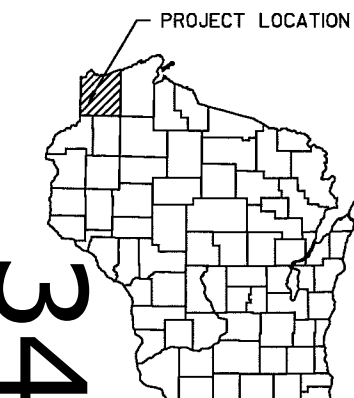


ORDER OF SHEETS

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

TOTAL SHEETS = 62



DESIGN DESIGNATION 8010-01-33

A.A.D.T.	2017	=	1200
A.A.D.T.	2037	=	1500
D.H.V.		=	8.2
D.D.		=	63/37
T.		=	12.3%
DESIGN SPEED		=	55
ESALS		=	280,000

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	////
PROPERTY LINE	---
LOT LINE	---
LIMITED HIGHWAY EASEMENT	---
EXISTING RIGHT OF WAY	---
PROPOSED OR NEW R/W LINE	---
SLOPE INTERCEPT	---
REFERENCE LINE	---
EXISTING CULVERT	---
PROPOSED CULVERT (Box or Pipe)	---
COMBUSTIBLE FLUIDS	CAUTION
MARSH AREA	---
WOODED OR SHRUB AREA	---

PROFILE	
GRADE LINE	---
ORIGINAL GROUND	---
MARSH OR ROCK PROFILE (To be noted as such)	---
SPECIAL DITCH	---
GRADE ELEVATION	---
CULVERT (Profile View)	---
UTILITIES	
ELECTRIC	---
OVERHEAD UTILITY	---
FIBER OPTIC	---
GAS	---
SANITARY SEWER	---
STORM SEWER	---
TELEPHONE	---
WATER	---
UTILITY PEDESTAL	---
POWER POLE	---
TELEPHONE POLE	---

ROCK	---
LABEL	---
95.36	---
E	---
OH	---
FO	---
G	---
SAN	---
SS	---
T	---
W	---
---	---
---	---

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

DAIRYLAND - SUPERIOR

SOUTH COUNTY LINE TO S JCT CTH B

STH 35
DOUGLASSTATE PROJECT NUMBER
8010-01-63EQUATION
STA 555+77.73 BK=
STA 539+94.36 AH
EQUATION
STA 523+70.69 BK=
STA 539+77.01 AH

T-46-N

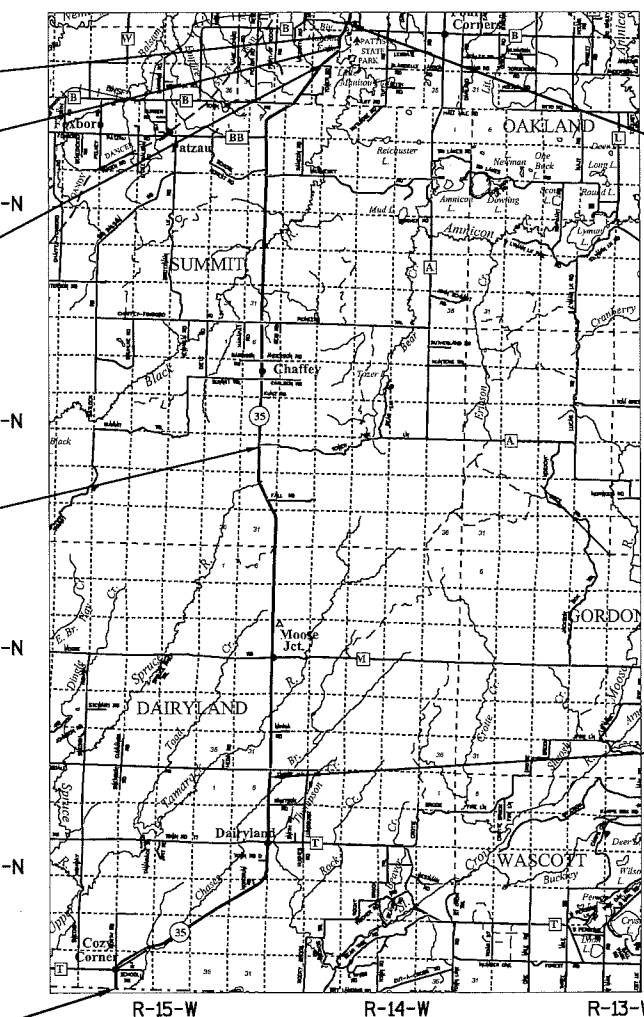
EQUATION
STA 1481+44.62 BK=
STA 489+69.86 AH

T-45-N

EQUATION
STA 895+68.81 BK=
STA 902+70.20 AH

T-44-N

T-43-N

END PROJECT
STA 558+70.59
X: 142,516.17
Y: 237,919.07EQUATION
STA 437+97.16 BK=
STA 425+32.10 AHBEGIN PROJECT
STA 8+00.00
X: 112,573.76
Y: 99,902.47

TOTAL NET LENGTH OF CENTERLINE = 29.26 MILES

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

STATE PROJECT

8010-01-63

FEDERAL PROJECT

PROJECT

CONTRACT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NW REGION
Designer	MATTHEW BECKLIN
Project Manager	BETH CUNNINGHAM, PE
Regional Examiner	NW REGION
Regional Supervisor	ANDREW STENSLAND, PE

APPROVED FOR THE DEPARTMENT

DATE: 10/21/16 *Andy Stensland*
(Signature)

E

LIST OF STANDARD ABBREVIATIONS

ABUT.	ABUTMENT
AGG.	AGGREGATE
AH.	AHEAD
APPROX.	APPROXIMATE
A.E.W.	APRON ENDWALL
ASPH.	ASPHALTIC
A.D.T.	AVERAGE DAILY TRAFFIC
AZ.	AZIMUTH
BK.	BACK
BEG.	BEGIN
B.M.	BENCH MARK
C/L	CENTER LINE
CONC.	CONCRETE
CONST.	CONSTRUCTION
CO.	COUNTY
C.T.H.	COUNTY TRUNK HIGHWAY
X-SEC.	CROSS SECTION
CR.	CRUSHED
CFS	CUBIC FEET/SECOND
C.Y., CU. YD.	CUBIC YARD
CULV.	CULVERT
C.P.	CULVERT PIPE
D.O.T.	DEPARTMENT OF TRANSPORTATION
D.H.V.	DESIGN HOUR VOLUME
DIA.	DIAMETER
D.	DIRECTIONAL DISTRIBUTION
DISCH. OR DIS.	DISCHARGE
EA.	EACH
ELECT.	ELECTRIC
EL. OR ELEV.	ELEVATION
EMB.	EMBANKMENT
E.B.S.	EXCAVATION BELOW SUBGRADE
EXIST.	EXISTING
FERT.	FERTILIZE
F.E.	FIELD ENTRANCE
FIN.	FINISHED
FT.	FOOT
F.L.	FLOW LINE
GA.	GAUGE
HORIZ.	HORIZONTAL
CWT.	HUNDREDWEIGHT
INL.	INLET
LT.	LEFT
L.H.F.	LEFT-HAND FORWARD
LIN.	LINEAR
LIN. FT.	LINEAR FOOT
L.S.	LUMP SUM
MAX.	MAXIMUM
MI.	MILE
MISC.	MISCELLANEOUS
N.E.	NORTH EAST
N.W.	NORTH WEST
PAV'T	PAVEMENT
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
P.O.T.	POINT ON TANGENT
LB.	POUND
P.E.	PRIVATE ENTRANCE
PROJ.	PROJECT
R.	RANGE
REQ'D	REQUIRED
RT.	RIGHT
R.H.F.	RIGHT-HAND FORWARD
R/W	RIGHT OF WAY
RD.	ROAD
SHR.	SHRINKAGE
SL.	SLOPE
STD.	STANDARD
S.D.D.	STANDARD DETAIL DRAWINGS
S.T.H.	STATE TRUNK HIGHWAY
STA.	STATION
S.P.P.A.	STRUCTURAL PLATE PIPE ARCH
STRUCT.	STRUCTURE
SURF.	SURFACE
TEL.	TELEPHONE
TN.	TOWN
T.	TRUCKS (PERCENT OF)
UNCL.	UNCLASSIFIED
U.G.	UNDERGROUND
V.	VELOCITY OR DESIGN SPEED
V.C.	VERTICAL CURVE

UTILITIES

CENTURYLINK - COMMUNICATION LINE
ALAN NICKELL
P.O. 181
SOLON SPRINGS, WI 54873
715-378-2131 (OFFICE)
715-566-3879 (CELL)
ALAN.NICKELL@CENTURYLINK.COM

EAST CENTRAL ENERGY - ELECTRICITY
JEROD STAMPER
3617 BAUMGARTNER RD
SUPERIOR, WI 54880
715-399-6169 (OFFICE)
218-293-1273 (CELL)
JEROD.STAMPER@ECEMN.COM

CONSOLIDATED COMMUNICATIONS - COMMUNICATION LINE
221 EAST HICKORY ST
PO BOX 3248
MANKATO, MN 56002
507-386-3606
JUSTIN.GREV@CONSOLIDATED.COM

GREAT RIVER ENERGY - ELECTRICITY
MICHELLE LOMMEL
12300 ELM CREEK BLVD
MAPLE GROVE, MN 55369
763-445-5977
MLOMMEL@GRENEENERGY.COM

GENERAL NOTES

HORIZONTAL CONTROL POINTS AND ANY OTHER SURVEY INFORMATION WILL BE PROVIDED BY NORTHWEST REGIONAL TECHNICAL SERVICES UPON REQUEST.

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

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

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE SALVAGED TOPSOIL, FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER.

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE COUNTY SURVEYOR REGARDING MONUMENT AND PROPERTY CORNER PRESERVATION.

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

IT IS THE CONTRACTORS RESPONSIBILITY TO CALL DIGGERS HOTLINE PRIOR TO BEGINNING WORK OPERATIONS AND TO CONFIRM ALL UTILITY LOCATIONS.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

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

TYPICAL FINISHED SECTIONS SHOW THE GENERAL ROADWAY FEATURES THROUGHOUT THE PROJECT. SLOPES AND DISTANCES MAY VARY WITHIN THE STATION LIMITS.



Dial  or (800)242-8511

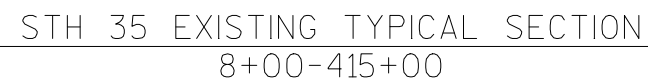
www.DiggersHotline.com

DOUGLAS COUNTY HIGHWAY DEPARTMENT

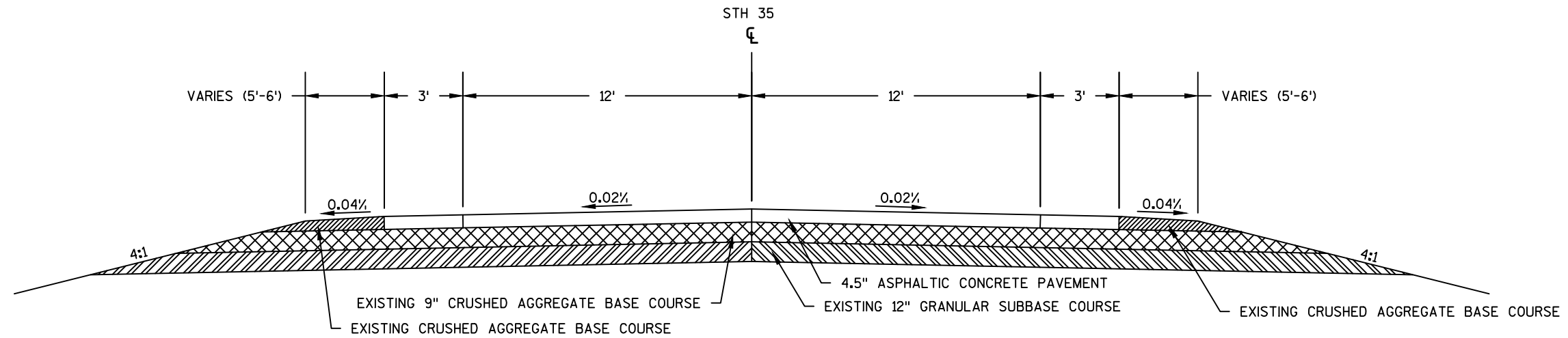
JASON JACKMAN, HIGHWAY COMMISSIONER
DOUGLAS COUNTY HIGHWAY DEPARTMENT
7417 S COUNTY RD E
PO BOX 174
HAWTHORNE, WI 54842
(715) 374-2575

WISCONSIN DNR – LIASON

DEPARTMENT OF NATURAL RESOURCES
SPOONER - DNR SERVICE CENTER
810 W MAPLE ST
SPOONER, WI 54801
ATTN.: AMY CRONK
(715) 635-4229
AMY.CRONK@WISCONSIN.GOV

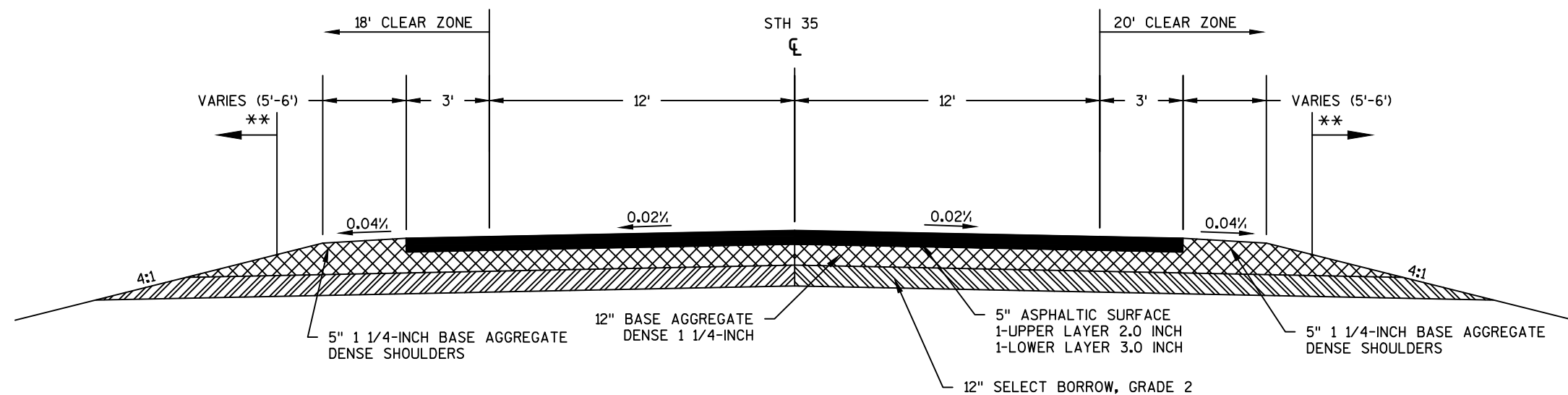


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STH 35 EXISTING TYPICAL SECTION

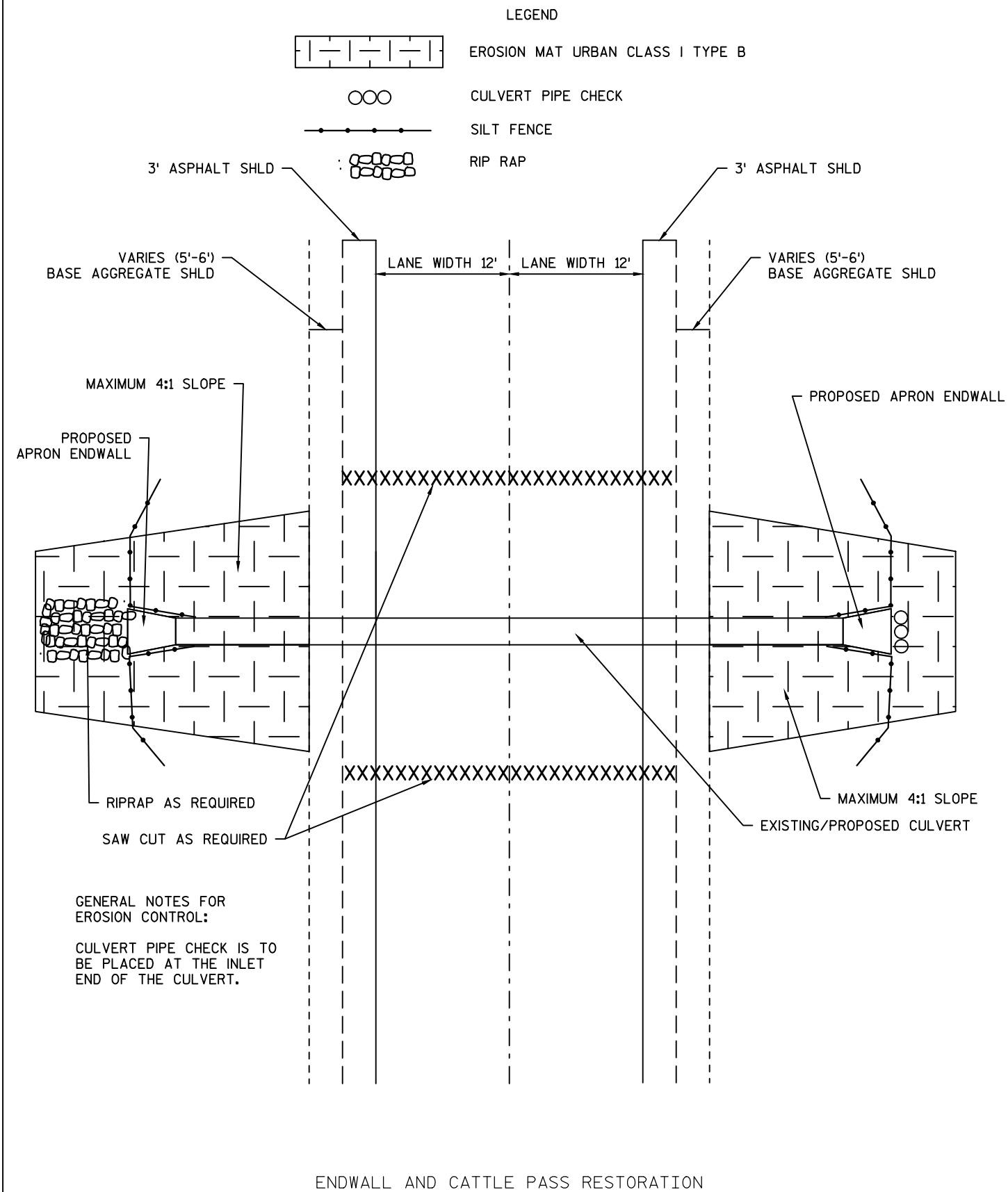
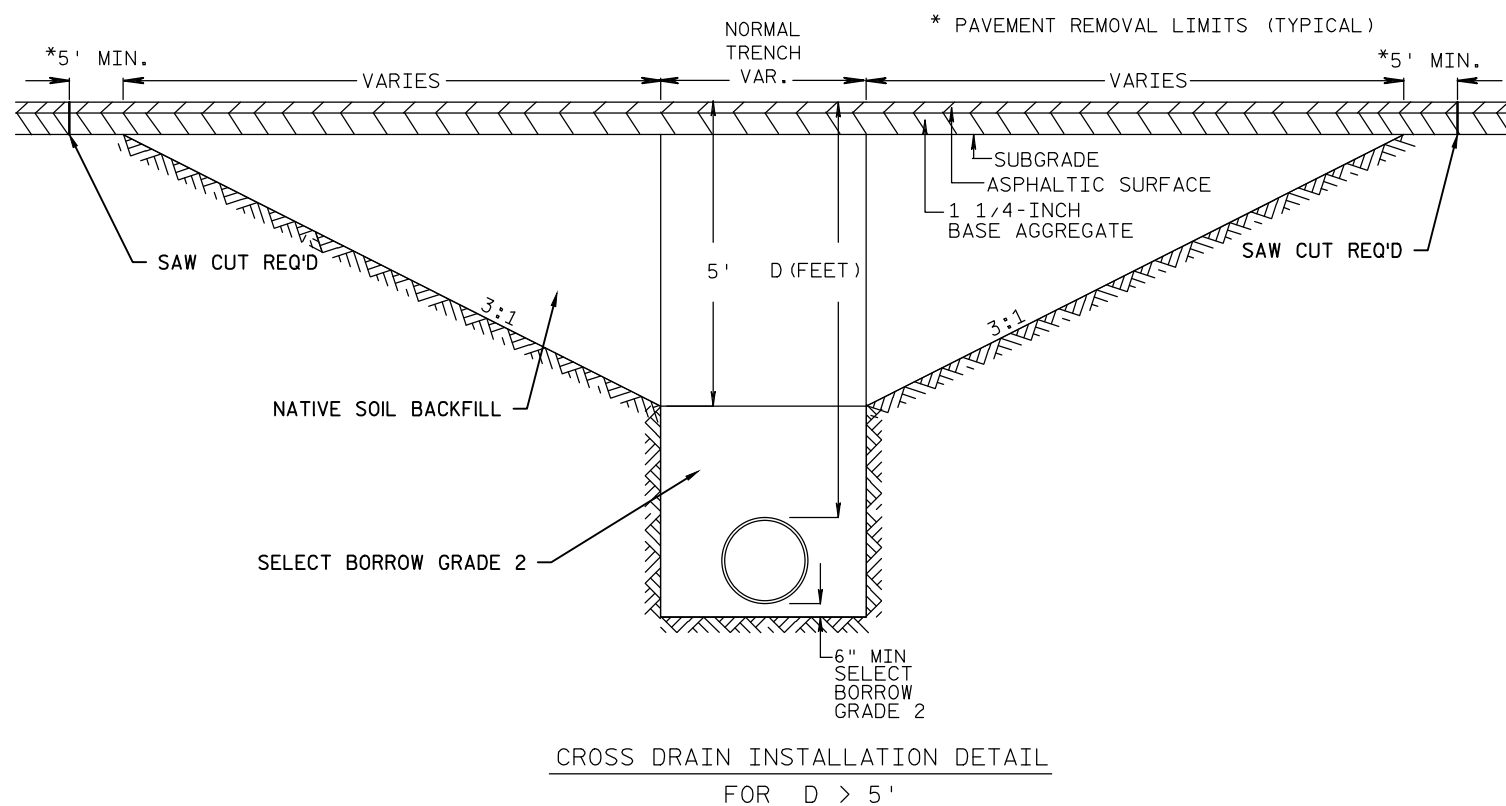
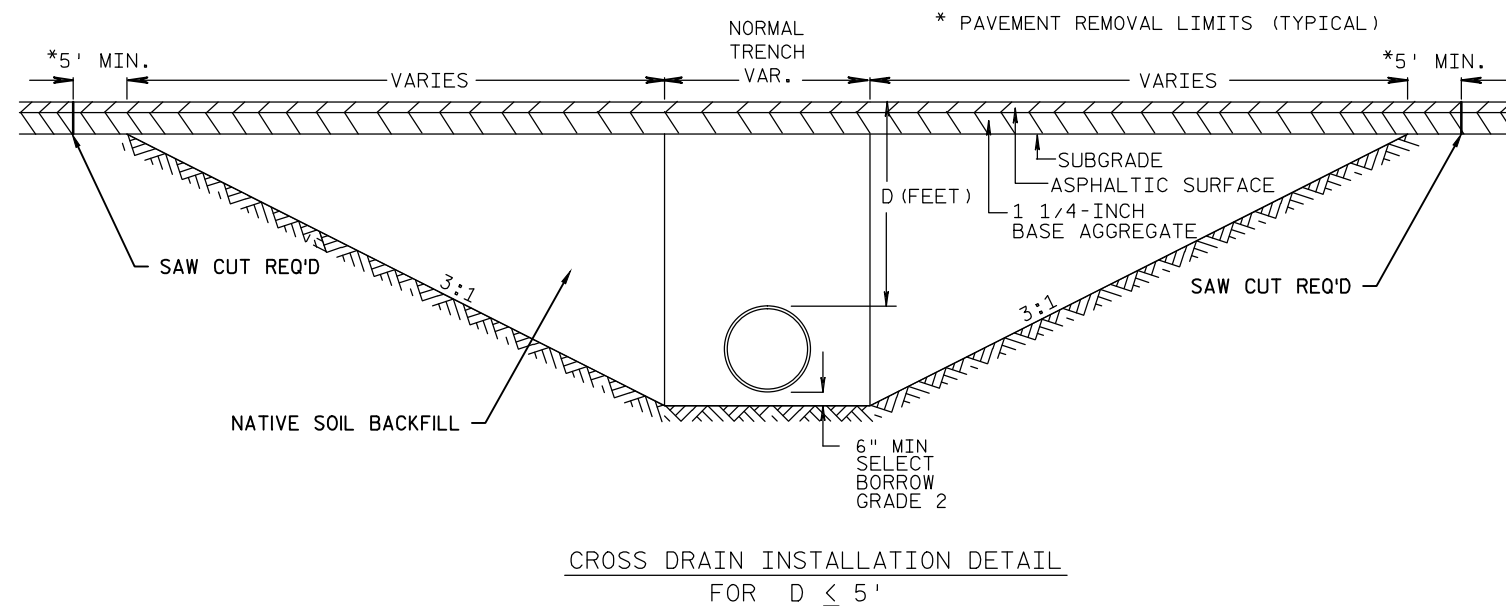
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489+69-558+70

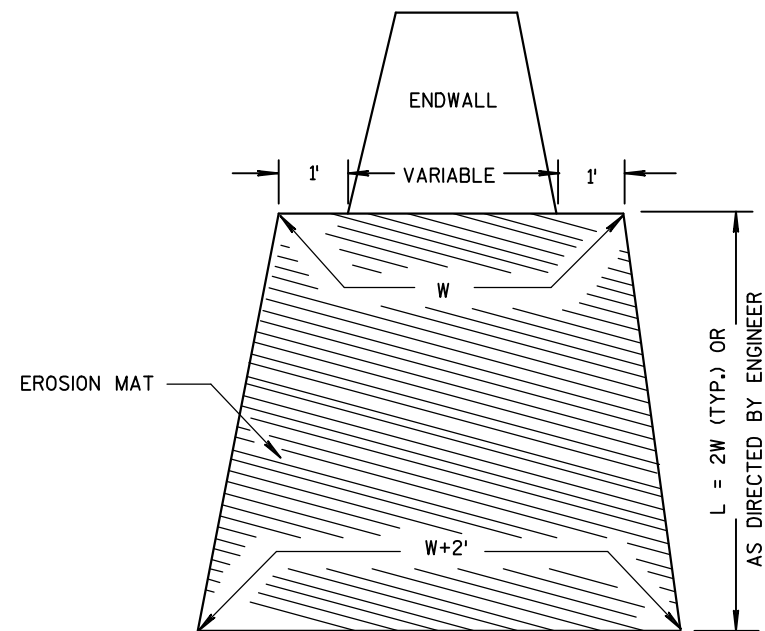


STH 35 PROPOSED TYPICAL SECTION (CULVERT REPLACEMENT LOCATIONS)

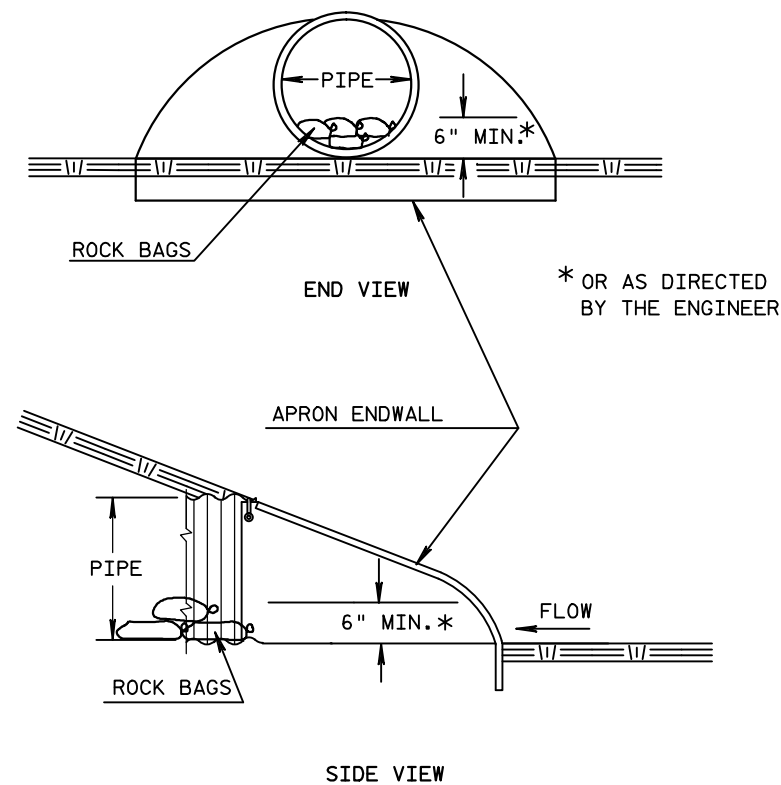
415+00-1481+44
489+69-558+70

** SEE EROSION CONTROL
PLAN FOR SEEDING, FERTILIZING,
MULCHING AND EROSION MAT



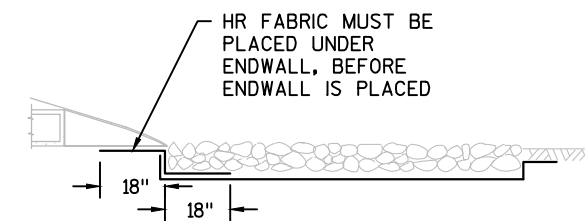


EROSION MAT TREATMENT AT CULVERTS

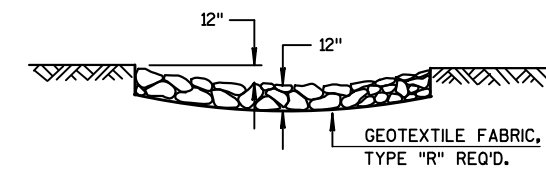
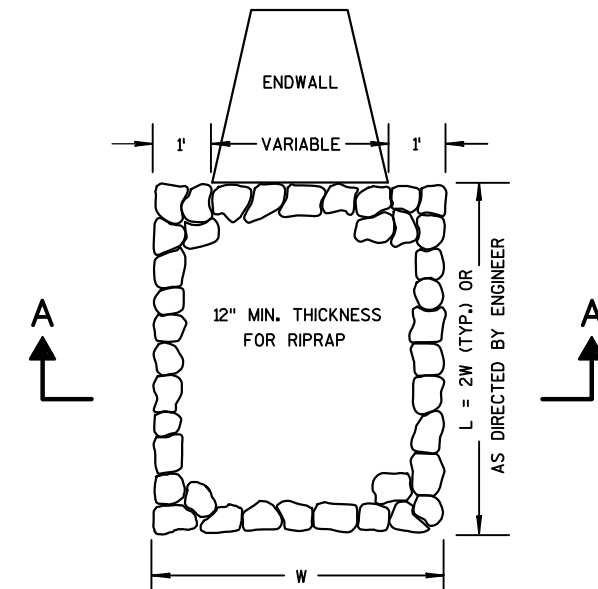


CULVERT PIPE CHECKS

HR FABRIC MAY BE INSTALLED AS TWO SEPARATE PIECES, OVERLAPPING AS SHOWN OR AS APPROVED BY THE ENGINEER IN THE FIELD. EXTRA QUANTITY FOR OVERLAP IS INCIDENTAL TO THE CONTRACT.



HR FABRIC INSTALLATION



RIPRAP TREATMENT AT CULVERTS

PIPE NAME	STR NAME	REF STATION	OFFSET	EASTING	NORTHING	STR TYPE	INVERT (UPSTREAM)	PIPE DIA. (IN.)	PIPE TYPE (CLASS OR THICKNESS)	PIPE LENGTH (LF)	SLOPE (%)	DRAINS TO	INVERT (DOWNSTREAM)
P-1	1A	13+99.61	-37.62	112544.97	100500.88	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	76			
	1B	13+99.54	37.71	112617.29	100502.36	AE ALUMINUM 24-INCH							
P-2	2A	25+23.30	-38.00	112521.58	101624.39	AE ALUMINUM 24-INCH	1055.52	24	CACP (0.075")	78	1.01%	2B	
	2B	25+22.68	40.20	112599.77	101625.37	AE ALUMINUM 24-INCH							1054.73
P-3	3A	34+16.98	-40.33	112545.01	102523.72	AE ALUMINUM 72-INCH	1055.55	72	CACP (0.164")	74	0.97%	3B	
	3B	34+24.42	33.53	112619.03	102518.12	AE ALUMINUM 72-INCH							1054.83
P-4	4A	66+18.12	-45.54	114713.26	104743.08	AE ALUMINUM 30-INCH	1076.31	30	CACP (0.075")	91	1.15%	4B	
	4B	66+11.86	44.67	114752.86	104661.79	AE ALUMINUM 30-INCH							1075.26
P-5	5A	98+21.23	-36.35	117542.40	106251.84	AE ALUMINUM 30-INCH	1057.09	30	CACP (0.075")	82	3.23%	5B	
	5B	97+84.16	36.72	117525.82	106171.52	AE ALUMINUM 30-INCH							1054.44
P-6	6A	117+91.29	-31.51	119399.48	106812.09	AE ALUMINUM 30-INCH	1064.53	30	CACP (0.075")	66	0.59%	6B	
	6B	117+91.18	34.65	119436.06	106754.96	AE ALUMINUM 30-INCH							1064.14
P-7	7A	124+51.63	-28.33	119926.76	107176.64	AE ALUMINUM 24-INCH	1062.72	24	CACP (0.075")	62	1.63%	7B	
	7B	124+51.28	34.90	119962.99	107124.33	AE ALUMINUM 24-INCH							1061.71
P-8	8A	164+49.07	-45.74	123201.23	109470.85	AE ALUMINUM 24-INCH		24	CACP (0.075")	92	0.26%		1091.91
	8B	164+56.76	45.19	123258.48	109399.79	AE ALUMINUM 24-INCH	1092.15					8A	
P-10	10A	184+98.38	-45.45	124899.20	110618.14	AE ALUMINUM 36-INCH		36	CACP (0.105")	88	0.94%		1089.60
	10B	185+01.44	41.98	124950.76	110547.46	AE ALUMINUM 36-INCH	1090.43					10A	
P-11	11A	213+21.07	-29.19	127251.15	112165.85	AE ALUMINUM 24-INCH	1099.84	24	CACP (0.075")	59	1.02%	11B	
	11B	213+21.19	29.22	127291.95	112116.22	AE ALUMINUM 24-INCH							1099.24
P-12	12A	221+99.33	-23.91	128014.94	112617.11	AE ALUMINUM 30-INCH	1101.65	30	CACP (0.075")	52	1.33%	12B	
	12B	222+01.02	28.40	128043.47	112573.23	AE ALUMINUM 30-INCH							1100.96
P-13	13A	229+90.94	-35.56	128686.07	113037.10	AE ALUMINUM 36-INCH	1100.29	36	CACP (0.105")	73	0.67%	13B	
	13B	229+95.70	37.50	128727.99	112977.07	AE ALUMINUM 36-INCH							1099.80
P-14	14A	240+08.56	-36.26	129556.16	113564.76	AE ALUMINUM 36-INCH		36	CACP (0.105")	74	0.66%		1098.23
	14B	239+91.58	35.00	129578.50	113494.98	AE ALUMINUM 36-INCH	1098.72					14A	
P-15	15A	250+86.29	-33.33	130479.58	114120.47	AE ALUMINUM 30-INCH	1100.44	30	CACP (0.075")	72	0.67%	15B	
	15B	250+85.41	38.79	130516.16	114058.30	AE ALUMINUM 30-INCH							1099.96
P-16	16A	278+84.18	-28.99	132819.81	115630.41	AE ALUMINUM 30-INCH	1098.17	30	CACP (0.075")	66	0.41%	16B	
	16B	278+86.84	37.11	132868.66	115585.80	AE ALUMINUM 30-INCH							1097.90
P-17	17A	294+80.21	-38.75	133562.56	116999.08	AE ALUMINUM 30-INCH	1102.48	30	CACP (0.075")	90	0.98%	17B	
	17B	294+83.62	50.76	133650.50	116982.13	AE ALUMINUM 30-INCH							1101.60
P-18	18A	308+46.98	-51.60	133638.06	118351.99	AE ALUMINUM 30-INCH		30	EXISTING CACP TO REMAIN	128			
	18B	309+12.92	57.68	133748.87	118415.52	AE ALUMINUM 30-INCH							
P-19	19A	320+81.70	-34.66	133684.14	119586.60	AE ALUMINUM 30-INCH	1106.65	30	CACP (0.075")	70	0.17%	19B	
	19B	320+86.38	35.21	133754.10	119589.56	AE ALUMINUM 30-INCH							1106.53
P-20	20A	336+61.80	-26.77	133729.30	121165.91	AE ALUMINUM 24-INCH	1114.59	24	CACP (0.075")	56	1.48%	20B	
	20B	336+61.61	29.35	133785.40	121164.48	AE ALUMINUM 24-INCH							1113.76
P-21	21A	355+57.60	-29.75	133763.84	123060.81	AE ALUMINUM 36-INCH		36	CACP (0.105")	63	0.19%		1112.70
	21B	355+60.28	32.70	133826.28	123063.43	AE ALUMINUM 36-INCH	1112.82					21A	
P-22	22A	377+65.07	-33.66	133696.34	125283.55	AE ALUMINUM 30-INCH	1115.77	30	CACP (0.075")	65	0.20%	22B	
	22B	377+65.91	31.34	133761.27	125286.65	AE ALUMINUM 30-INCH							1115.64

PIPE NAME	STR NAME	REF STATION	OFFSET	EASTING	NORTHING	STR TYPE	INVERT (UPSTREAM)	PIPE DIA. (IN.)	PIPE TYPE (CLASS OR THICKNESS)	PIPE LENGTH (LF)	SLOPE (%)	DRAINS TO	INVERT (DOWNSTREAM)
P-23	23A	389+00.40	-31.60	133658.39	126418.22	AE ALUMINUM 24-INCH	1118.88	24	CACP (0.075")	61	0.46%	23B	1118.60
	23B	389+02.24	28.79	133718.68	126422.15	AE ALUMINUM 24-INCH							
P-24	24A	428+77.09	-32.00	133866.44	131717.41	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	64			
	24B	428+75.71	31.89	133930.30	131715.03	AE ALUMINUM 24-INCH							
P-25	25A	437+72.92	-27.71	133865.81	132612.44	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	56			
	25B	437+73.75	27.81	133921.32	132613.79	AE ALUMINUM 24-INCH							
P-26	26A	450+17.29	-36.12	133845.62	133856.67	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	84			
	26B	450+22.73	27.56	133909.25	133862.72	AE ALUMINUM 24-INCH							
P-27	27A	460+07.87	-27.96	133844.41	134847.29	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	58			
	27B	459+89.59	26.69	133899.23	134829.52	AE ALUMINUM 24-INCH							
P-28	28A	466+96.00	-35.46	133830.40	135535.31	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	64			
	28B	466+95.91	28.45	133894.31	135535.83	AE ALUMINUM 24-INCH							
P-29	29A	470+18.90	-33.09	133829.72	135858.22	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	66			
	29B	470+18.61	30.82	133893.62	135858.53	AE ALUMINUM 24-INCH							
P-30	30A	479+92.18	-29.56	133823.72	136831.35	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	72			
	30B	479+56.08	29.54	133883.32	136796.06	AE ALUMINUM 24-INCH							
P-31	31A	530+45.45	-41.13	133682.65	141882.29	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	80			
	31B	530+44.60	37.90	133761.66	141883.51	AE ALUMINUM 24-INCH							
P-32	32A	535+42.63	-31.71	133683.44	142380.35	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	64			
	32B	535+45.45	32.13	133747.28	142383.38	AE ALUMINUM 24-INCH							
P-33	33A	555+83.00	-29.11	133708.58	144421.05	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	56			
	33B	555+84.07	25.28	133762.97	144421.46	AE ALUMINUM 24-INCH							
P-34	34A	563+62.69	-28.74	133718.34	145200.68	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	56			
	34B	563+62.67	26.34	133773.42	145199.99	AE ALUMINUM 24-INCH							
P-35	35A	589+75.43	-29.32	133747.22	147812.99	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	56			
	35B	589+74.36	25.76	133802.29	147811.75	AE ALUMINUM 24-INCH							
P-36	36A	602+21.11	-40.10	133740.22	149058.69	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	84			
	36B	602+20.10	42.57	133822.88	149057.43	AE ALUMINUM 24-INCH							
P-37	37A	621+64.39	-27.46	133758.75	151001.92	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	62			
	37B	621+65.09	33.25	133819.45	151002.44	AE ALUMINUM 24-INCH							
P-38	38A	648+96.68	-31.15	133762.11	153734.17	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	62			
	38B	648+94.55	29.27	133822.53	153731.95	AE ALUMINUM 24-INCH							
P-39	39A	654+48.12	-30.39	133763.65	154285.60	AE ALUMINUM 48-INCH		48	EXISTING CACP TO REMAIN	64			
	39B	654+46.75	31.92	133825.96	154284.15	AE ALUMINUM 48-INCH							
P-40	40A	713+13.04	-29.74	133794.15	160150.72	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	70			
	40B	713+31.14	36.25	133860.36	160167.99	AE ALUMINUM 24-INCH							
P-41	41A	721+95.85	-33.22	133801.98	161033.50	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	72			
	41B	721+96.10	37.90	133872.89	161032.86	AE ALUMINUM 24-INCH							
P-42	42A	740+64.28	-34.01	133824.49	162901.80	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	66			
	42B	740+63.69	30.18	133888.68	162900.39	AE ALUMINUM 24-INCH							
P-43	43A	766+78.41	-47.77	133857.23	165515.99	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	92			
	43B	766+72.47	43.37	133948.24	165508.30	AE ALUMINUM 24-INCH							

PIPE NAME	STR NAME	REF STATION	OFFSET	EASTING	NORTHING	STR TYPE	INVERT (UPSTREAM)	PIPE DIA. (IN.)	PIPE TYPE (CLASS OR THICKNESS)	PIPE LENGTH (LF)	SLOPE (%)	DRAINS TO	INVERT (DOWNSTREAM)
P-44	44A	778+50.99	-26.88	133900.58	166687.95	AE ALUMINUM 30-INCH		30	EXISTING CACP TO REMAIN	56			
	44B	778+55.07	27.68	133955.20	166690.99	AE ALUMINUM 30-INCH							
P-45	45A	783+01.26	-29.22	133904.19	167136.34	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	70			
	45B	783+39.57	26.49	133957.58	167177.78	AE ALUMINUM 24-INCH							
P-46	46A	789+58.09	-32.97	133721.48	167747.38	AE ALUMINUM 36-INCH		36	EXISTING CACP TO REMAIN	66			
	46B	789+57.14	30.93	133778.85	167775.54	AE ALUMINUM 36-INCH							
P-47	47A	808+06.80	-30.60	132884.63	169395.84	AE ALUMINUM 36-INCH		36	EXISTING CACP TO REMAIN	62			
	47B	808+01.35	28.33	132939.61	169417.73	AE ALUMINUM 36-INCH							
P-48	48A	840+17.22	-41.56	131417.93	172251.67	AE ALUMINUM 48-INCH		48	EXISTING CACP TO REMAIN	70			
	48B	840+13.06	27.65	131481.50	172279.37	AE ALUMINUM 48-INCH							
P-49	49A	840+26.21	-42.29	131413.06	172259.76	AE ALUMINUM 48-INCH		48	EXISTING CACP TO REMAIN	76			
	49B	840+21.23	29.70	131479.72	172287.41	AE ALUMINUM 48-INCH							
P-50	50A	865+54.74	-33.76	131274.96	174778.91	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	68			
	50B	865+56.05	33.10	131341.82	174780.30	AE ALUMINUM 24-INCH							
P-51	51A	890+71.28	-27.66	131277.53	177295.45	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	56			
	51B	890+69.58	27.64	131332.84	177293.83	AE ALUMINUM 24-INCH							
P-52	52A	907+25.54	-36.84	131267.01	178247.31	AE ALUMINUM 36-INCH		36	EXISTING CACP TO REMAIN	74			
	52B	907+26.56	34.92	131338.77	178249.43	AE ALUMINUM 36-INCH							
P-53	53A	917+37.80	-35.38	131267.05	179260.56	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	70			
	53B	917+73.95	38.22	131340.60	179296.82	AE ALUMINUM 24-INCH							
P-54	54A	927+32.39	-33.87	131267.16	180255.15	AE ALUMINUM 36-INCH		36	EXISTING CACP TO REMAIN	60			
	54B	927+31.92	30.35	131331.38	180254.77	AE ALUMINUM 36-INCH							
P-55	55A	951+27.13	-29.41	131340.90	182656.65	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	54			
	55B	951+31.58	28.49	131398.94	182658.06	AE ALUMINUM 24-INCH							
P-56	56A	961+69.29	-40.85	131384.21	183697.98	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	80			
	56B	961+70.31	41.24	131466.23	183694.69	AE ALUMINUM 24-INCH							
P-57	57A	981+03.55	-34.29	131416.15	185628.43	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	66			
	57B	981+04.02	32.59	131483.01	185629.82	AE ALUMINUM 24-INCH							
P-58	58A	994+38.34	-32.94	131399.07	186963.10	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	68			
	58B	994+38.82	33.93	131465.93	186964.51	AE ALUMINUM 24-INCH							
P-59	59A	1004+01.50	-35.51	131383.13	187926.14	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	66			
	59B	1004+04.20	34.15	131452.74	187929.80	AE ALUMINUM 24-INCH							
P-60	60A	1015+34.34	-33.15	131369.74	189058.90	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	74			
	60B	1015+33.93	37.74	131440.62	189059.47	AE ALUMINUM 24-INCH							
P-61	61A	1031+02.54	-30.31	131344.08	190626.56	AE ALUMINUM 30-INCH		30	EXISTING CACP TO REMAIN	58			
	61B	1031+02.71	29.89	131404.26	190628.16	AE ALUMINUM 30-INCH							
P-62	62A	1048+96.73	-60.22	131269.26	192417.31	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	118			
	62B	1048+97.59	57.45	131386.86	192421.27	AE ALUMINUM 24-INCH							
P-63	63A	1055+20.78	-30.79	131282.19	193041.91	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	58			
	63B	1055+18.59	29.15	131342.17	193041.31	AE ALUMINUM 24-INCH							
P-64	64A	1094+01.72	-34.10	131253.22	196923.25	AE ALUMINUM 36-INCH		36	EXISTING CACP TO REMAIN	62			
	64B	1094+07.82	29.31	131316.73	196928.30	AE ALUMINUM 36-INCH							

PIPE NAME	STR NAME	REF STATION	OFFSET	EASTING	NORTHING	STR TYPE	INVERT (UPSTREAM)	PIPE DIA. (IN.)	PIPE TYPE (CLASS OR THICKNESS)	PIPE LENGTH (LF)	SLOPE (%)	DRAINS TO	INVERT (DOWNSTREAM)
P-65	65A	1107+31.44	-30.43	131278.93	198252.73	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	62			
	65B	1107+31.16	33.03	131342.37	198251.40	AE ALUMINUM 24-INCH							
P-66	66A	1135+98.97	-35.30	131320.90	201119.94	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	68			
	66B	1136+01.99	36.01	131392.26	201121.82	AE ALUMINUM 24-INCH							
P-67	67A	1150+62.17	-34.86	131338.36	202556.27	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	72			
	67B	1150+61.12	40.45	131413.66	202554.67	AE ALUMINUM 24-INCH							
P-68	68A	1168+68.16	-43.27	131343.10	204362.27	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	90			
	68B	1168+70.40	44.40	131430.78	204363.87	AE ALUMINUM 24-INCH							
P-69	69A	1187+14.95	-36.05	131363.76	206208.96	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	76			
	69B	1187+15.71	40.37	131440.18	206209.16	AE ALUMINUM 24-INCH							
P-70	70A	1207+65.43	-27.47	131386.78	208259.31	AE ALUMINUM 30-INCH		30	EXISTING CACP TO REMAIN	58			
	70B	1207+66.50	31.69	131445.94	208259.98	AE ALUMINUM 30-INCH							
P-71	71A	1226+51.33	-42.73	131384.14	210145.27	AE ALUMINUM 48-INCH		48	EXISTING CACP TO REMAIN	88			
	71B	1226+52.55	46.26	131473.14	210145.89	AE ALUMINUM 48-INCH							
P-72	72A	1245+03.86	-30.22	131409.04	211997.67	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	62			
	72B	1245+05.74	32.32	131471.59	211999.14	AE ALUMINUM 24-INCH							
P-73	73A	1266+05.26	-39.23	131414.10	214099.09	AE ALUMINUM 36-INCH		36	EXISTING CACP TO REMAIN	78			
	73B	1266+11.70	39.10	131492.48	214105.01	AE ALUMINUM 36-INCH							
P-74	74A	1293+20.76	-45.47	131390.32	216835.65	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	86			
	74B	1293+22.51	44.39	131480.09	216840.00	AE ALUMINUM 24-INCH							
P-75	75A	1315+32.76	-29.44	131342.20	219047.18	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	64			
	75B	1315+30.70	33.38	131405.05	219046.95	AE ALUMINUM 24-INCH							
P-76	76A	1329+87.03	-32.57	131296.90	220500.75	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	68			
	76B	1330+00.02	38.37	131367.43	220515.80	AE ALUMINUM 24-INCH							
P-77	77A	1334+44.38	-29.19	131287.01	220958.01	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	62			
	77B	1334+43.90	35.88	131352.07	220959.41	AE ALUMINUM 24-INCH							
P-78	78A	1345+38.10	-42.22	131230.80	222049.45	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	82			
	78B	1345+37.15	41.75	131314.70	222052.86	AE ALUMINUM 24-INCH							
P-79	79A	1355+76.26	-36.24	131182.88	223086.53	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	70			
	79B	1355+75.64	34.69	131253.75	223089.59	AE ALUMINUM 24-INCH							
P-80	80A	1379+84.67	-34.48	132532.56	224833.80	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	68			
	80B	1379+85.43	32.09	132568.58	224777.82	AE ALUMINUM 24-INCH							
P-81	81A	1385+30.43	-28.46	132998.02	225118.81	AE ALUMINUM 36-INCH		36	EXISTING CACP TO REMAIN	62			
	81B	1385+13.52	31.67	133015.66	225058.89	AE ALUMINUM 36-INCH							
P-82	82A	1389+72.39	-26.57	133373.37	225352.14	AE ALUMINUM 36-INCH		36	EXISTING CACP TO REMAIN	56			
	82B	1389+67.77	28.13	133398.54	225303.35	AE ALUMINUM 36-INCH							
P-83	83A	1396+70.19	-34.65	133960.13	225729.90	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	68			
	83B	1396+75.49	35.22	134001.75	225673.55	AE ALUMINUM 24-INCH							
P-84	84A	1404+20.25	-42.67	134591.17	226135.41	AE ALUMINUM 36-INCH		36	EXISTING CACP TO REMAIN	80			
	84B	1404+14.85	44.64	134633.01	226058.58	AE ALUMINUM 36-INCH							
P-85	85A	1411+38.56	-29.17	135181.83	226528.70	AE ALUMINUM 36-INCH		36	EXISTING CACP TO REMAIN	72			
	85B	1411+22.04	43.31	135220.85	226465.41	AE ALUMINUM 36-INCH							

PIPE NAME	STR NAME	REF STATION	OFFSET	EASTING	NORTHING	STR TYPE	INVERT (UPSTREAM)	PIPE DIA. (IN.)	PIPE TYPE (CLASS OR THICKNESS)	PIPE LENGTH (LF)	SLOPE (%)	DRAINS TO	INVERT (DOWNSTREAM)
P-86	86A	1419+22.60	-31.74	135640.34	227151.61	AE ALUMINUM 48-INCH		48	EXISTING CACP TO REMAIN	58			
	86B	1419+18.32	26.99	135685.19	227115.03	AE ALUMINUM 48-INCH							
P-87	87A	1421+40.94	-30.40	135765.72	227330.36	AE ALUMINUM 36-INCH		36	EXISTING CACP TO REMAIN	58			
	87B	1421+50.52	26.10	135817.52	227305.85	AE ALUMINUM 36-INCH							
P-88	88A	1443+22.43	-42.38	137004.31	229125.87	AE ALUMINUM 30-INCH		30	EXISTING CACP TO REMAIN	82			
	88B	1443+19.79	39.36	137070.08	229077.27	AE ALUMINUM 30-INCH							
P-89	89A	1451+04.89	-47.16	137444.78	229772.58	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	90			
	89B	1451+05.75	40.32	137517.27	229723.61	AE ALUMINUM 24-INCH							
P-90	90A	1465+77.47	-31.73	138293.86	230975.83	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	62			
	90B	1465+77.11	28.97	138343.61	230941.07	AE ALUMINUM 24-INCH							
P-91	91A	496+32.20	-41.58	139735.96	232668.79	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	84			
	91B	496+27.71	42.92	139787.41	232601.61	AE ALUMINUM 24-INCH							
P-92	92A	500+78.42	-34.27	140080.06	232952.98	AE ALUMINUM 24-INCH		24	EXISTING CACP TO REMAIN	66			
	92B	500+82.50	32.53	140126.53	232904.83	AE ALUMINUM 24-INCH							

PR: SOUTH COUNTY LINE TO TOWER FIRE LANE
HY: STH 35
CO: DOUGLAS
HD: NAD 83 (2007)
CS: WCCS
ZN: 9516
VD: NAVD 88 (2007)
HT: ORTHO
GD: GEOID12-A
UL: FEET
VR: WI-SDMS TRANSLATOR 2.2.3
RE: STARTING BASE PT WAS AF9943 426 DAIRYLAND GPS

PT ID	X	Y	Z	REMARKS
GR:NGS CONTROL NAD 83 (2007) VALUES				
AF9943	133825.01	121479.76	1118.04	426 DAIRYLAND GPS
AF9946	131355.46	197520.83	1221.25	461 SUMMIT NE GPS
GR:CONTROL VALUES NAD 83 (2007)				
CP-20009	133819.38	141535.35	1201.89	DN5906 (MOOSE JUNCTION GPS)
CP-20021	131848.27	114833.93	1111.07	DN5908 (8P42)
CP-20031	120999.21	107953.68	1081.21	DN5909 (8P41)
CP-20042	112509.80	101132.92	1059.40	DN5910 (COZY CORNER GPS)
CP-20050	112539.06	90533.32	1050.23	8P07
CP-20048	112632.70	83182.20	1021.75	DN5373 (BLAINE GPS)
GR:SUPPLEMENTAL CONTROL				
CP-20013	133887.56	136133.75	1173.28	SET REBAR WITH WISDOT CAP
CP-20017	133714.92	129195.03	1142.82	SET REBAR WITH WISDOT CAP
CP-20027	125575.84	110942.07	1098.01	SET REBAR WITH WISDOT CAP
CP-20038	114495.37	104622.80	1081.46	SET REBAR WITH WISDOT CAP
CP-20511	133714.85	140471.01	1179.55	SET REBAR WITH WISDOT CAP
CP-20515	133883.98	137193.93	1174.86	SET REBAR WITH WISDOT CAP
CP-20519	133820.85	134233.78	1175.99	SET REBAR WITH WISDOT CAP
CP-20523	133932.02	131068.34	1164.93	SET REBAR WITH WISDOT CAP
CP-20527	133623.43	127660.69	1119.64	SET REBAR WITH WISDOT CAP
CP-20531	133809.18	124299.23	1116.34	SET REBAR WITH WISDOT CAP
CP-20535	133751.09	118740.00	1112.70	EXISTING REBAR NO CAP
CP-20539	133200.53	116162.42	1105.16	SET REBAR WITH WISDOT CAP
CP-20543	128388.63	112893.19	1105.45	SET REBAR WITH WISDOT CAP
CP-20547	123292.52	109370.52	1096.67	SET REBAR WITH WISDOT CAP
CP-20551	119060.87	106502.45	1073.03	SET REBAR WITH WISDOT CAP
CP-20588	116662.85	105753.92	1063.00	SET REBAR WITH WISDOT CAP
CP-20592	112807.43	102989.58	1061.76	SET REBAR WITH WISDOT CAP
CP-20596	112491.67	98587.31	1055.87	SET REBAR WITH WISDOT CAP

PR: TOWER FIRE LANE TO SOUTH CTH B
HY: STH 35
CO: DOUGLAS
HD: NAD 83 (2007)
CS: WCCS
ZN: 9516
VD: NAVD 88 (2007)
HT: ORTHO
GD: GEOID12-A
UL: FEET
VR: WI-SDMS TRANSLATOR 2.2.3
RE: STARTING BASE PT WAS AF9946 461 SUMMIT NE GPS

PT ID	X	Y	Z	REMARKS
GR:NGS CONTROL NAD 83 (2007) VALUES				
AF9946	131355.46	197520.83	1221.25	461 SUMMIT NE GPS
GR: CONTROL VALUES NAD 83 (2007)				
DN5902	131497.54	183523.56	1307.82	NGS CONTROL 8P48
DN5901	131330.42	195074.83	1229.61	NGS CONTROL 8P49
DN5898	131270.07	223789.79	1214.39	SUMMIT N GPS
DN5899	131395.65	211709.36	1196.31	NGS CONTROL 8P51
DN5897	136618.78	228575.11	1194.98	NGS CONTROL 9P31
DN5896	141428.86	234419.36	1067.35	NGS CONTROL 9P32
GR:SUPPLEMENTAL CONTROL				
CP-2017	137331.39	229596.01	1171.79	SET REBAR WITH WISDOT CAP
CP-2026	132707.23	224949.19	1198.65	SET REBAR WITH WISDOT CAP
CP-2035	131346.66	221315.40	1213.18	FOUND ALUM. R/W MONUMENT
CP-2044	131426.13	215111.65	1223.62	SET REBAR WITH WISDOT CAP
CP-2053	131457.18	208725.51	1195.66	SET REBAR WITH WISDOT CAP
CP-2062	131354.34	205610.31	1172.08	SET REBAR WITH WISDOT CAP
CP-2071	131412.20	202870.02	1200.96	SET REBAR WITH WISDOT CAP
CP-2080	131298.54	200071.09	1218.98	SET REBAR WITH WISDOT CAP
CP-2089	131296.78	192316.48	1278.25	SET REBAR WITH WISDOT CAP
CP-2098	131465.92	189670.72	1282.83	SET REBAR WITH WISDOT CAP
CP-2107	131391.04	186653.17	1291.45	SET REBAR WITH WISDOT CAP
CP-600	131380.22	208311.30	1190.67	SET REBAR WITH WISDOT CAP
CP-610	131330.98	218413.44	1222.78	FOUND ALUM. R/W MONUMENT
CP-619	135039.78	226339.23	1194.04	SET REBAR WITH WISDOT CAP
CP-625	138959.86	231768.92	1149.04	SET REBAR WITH WISDOT CAP
CP-10045	142378.17	237818.84	988.09	SET REBAR WITH WISDOT CAP

NOTES:

PLACE SIGNS IN EACH DIRECTION AT THE END OF EACH WORK DAY,
AND WHEN CULVERT PIPE REPLACEMENT WORK IS COMPLETE.

'ROAD WORK AHEAD' SIGNS ARE NOT REQUIRED WHEN
REPLACEMENT WORK ZONES ARE SPACED LESS THAN
1500 FEET APART.

MAINTAIN 'BUMP' AND 'LOOSE GRAVEL' SIGN UNTIL
ASPHALTIC SURFACE PAVEMENT IS COMPLETED.

PLACE DRUMS ON GRAVEL 15 FEET FROM CENTERLINE
UNTIL ASPHALTIC SURFACING AND SHOULDERS ARE IN PLACE.

PLACE 'PASS WITH CARE' SIGNS ONLY IF EXISTING
PAVEMENT MARKINGS DO NOT CONFLICT WITHIN THE
FOLLOWING 750 FEET, AND IF THERE IS NO WORK
ZONE WITHIN 1250 FEET.

FOR ADVANCED WARNING SEE STANDARD DETAIL DRAWING. (TRAFFIC
CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER, TWO
WAY UNDIVIDED ROAD OPEN TO TRAFFIC).

TRAFFIC CONTROL LEGEND



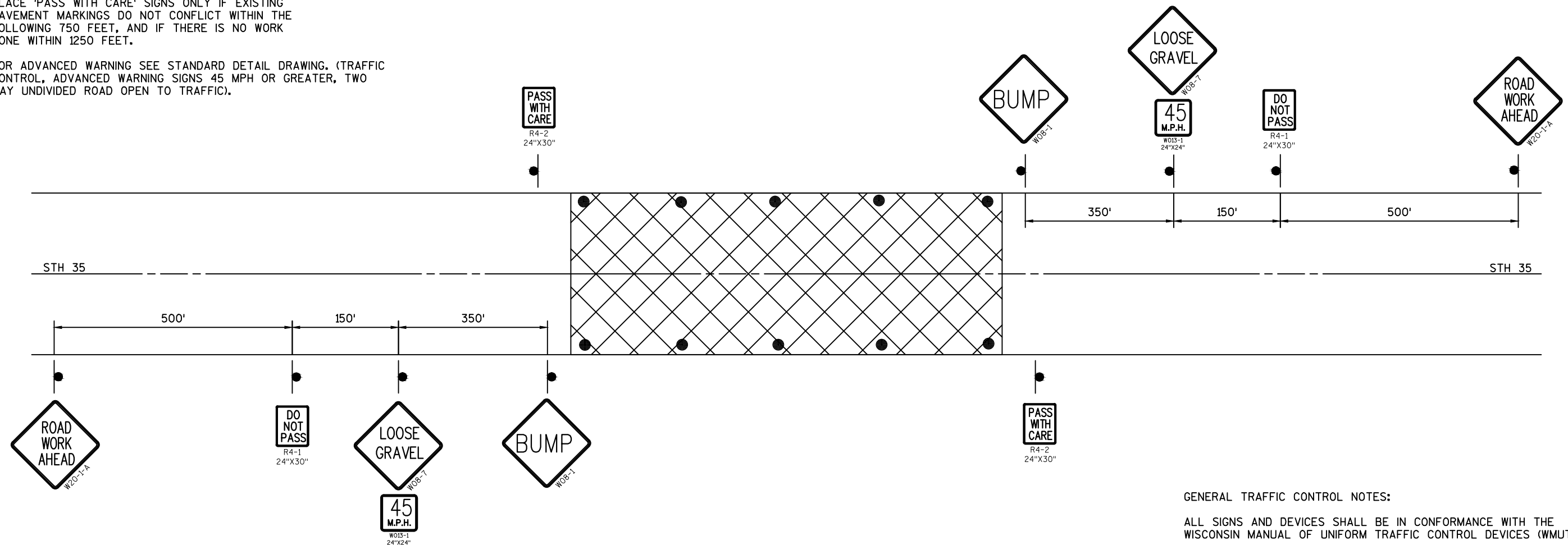
CULVERT REPLACEMENT ZONE



DRUM (TYP. 25 FOOT SPACING)



POST MOUNTED SIGN



GENERAL TRAFFIC CONTROL NOTES:

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE
WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

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

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

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

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

Estimate Of Quantities

8010-01-63

Line	Item	Item Description	Unit	Total	Qty
0010	203.0100	Removing Small Pipe Culverts	EACH	19.000	19.000
0020	203.0200	Removing Old Structure (station) 01. 34+21	LS	1.000	1.000
0030	203.0200	Removing Old Structure (station) 02. 183+95	LS	1.000	1.000
0040	204.0110	Removing Asphaltic Surface	SY	2,664.000	2,664.000
0050	204.9060.S	Removing (item description) 01. Apron Endwall	EACH	140.000	140.000
0060	208.1100	Select Borrow	CY	162.000	162.000
0070	213.0100	Finishing Roadway (project) 01. 8010-01-63	EACH	1.000	1.000
0080	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,059.000	2,059.000
0090	455.0605	Tack Coat	GAL	140.000	140.000
0100	465.0105	Asphaltic Surface	TON	756.000	756.000
0110	520.8700	Cleaning Culvert Pipes	EACH	56.000	56.000
0120	525.0124	Culvert Pipe Corrugated Aluminum 24-Inch	LF	474.000	474.000
0130	525.0130	Culvert Pipe Corrugated Aluminum 30-Inch	LF	654.000	654.000
0140	525.0136	Culvert Pipe Corrugated Aluminum 36-Inch	LF	225.000	225.000
0150	525.0172	Culvert Pipe Corrugated Aluminum 72-Inch	LF	74.000	74.000
0160	525.0324	Aluminum Apron Endwalls for Aluminum Culvert Pipe 24-Inch	EACH	114.000	114.000
0170	525.0330	Aluminum Apron Endwalls for Aluminum Culvert Pipe 30-Inch	EACH	26.000	26.000
0180	525.0336	Aluminum Apron Endwalls for Aluminum Culvert Pipe 36-Inch	EACH	28.000	28.000
0190	525.0348	Aluminum Apron Endwalls for Aluminum Culvert Pipe 48-Inch	EACH	10.000	10.000
0200	525.0372	Aluminum Apron Endwalls for Aluminum Culvert Pipe 72-Inch	EACH	2.000	2.000
0210	606.0200	Riprap Medium	CY	31.000	31.000
0220	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8010-01-63	EACH	1.000	1.000
0230	619.1000	Mobilization	EACH	1.000	1.000
0240	628.1504	Silt Fence	LF	3,150.000	3,150.000
0250	628.1520	Silt Fence Maintenance	LF	3,150.000	3,150.000
0260	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0270	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0280	628.7555	Culvert Pipe Checks	EACH	406.000	406.000
0290	633.5200	Markers Culvert End	EACH	182.000	182.000
0300	642.5001	Field Office Type B	EACH	1.000	1.000
0310	643.0100	Traffic Control (project) 01. 8010-01-63	EACH	1.000	1.000
0320	643.0300	Traffic Control Drums	DAY	2,500.000	2,500.000
0330	643.0900	Traffic Control Signs	DAY	4,000.000	4,000.000
0340	645.0120	Geotextile Type HR	SY	214.000	214.000
0350	646.0106	Pavement Marking Epoxy 4-Inch	LF	2,398.000	2,398.000

Estimate Of Quantities

8010-01-63					
Line	Item	Item Description	Unit	Total	Qty
0360	650.6000	Construction Staking Pipe Culverts	EACH	20.000	20.000
0370	650.9910	Construction Staking Supplemental Control (project) 01. 8010-01-63	LS	1.000	1.000
0380	690.0150	Sawing Asphalt	LF	1,260.000	1,260.000
0390	SPV.0060	Special 01. Endwall Restoration	EACH	180.000	180.000
0400	SPV.0060	Special 02. Cattle Pass Restoration	EACH	2.000	2.000

CULVERT REPLACEMENT

CATEGORY	STATION	PIPE NUMBER	LOCATION	REMOVING SMALL	REMOVING	SELECT	BASE AGGREGATE	TACK	ASPHALTIC	RIPRAP	GEOTEXTILE	PAVEMENT	CONSTRUCTION	REMARKS	
				PIPE CULVERTS	ASPHALTIC	BORROW	DENSE 1 1/4-	COAT	SURFACE	MEDIUM	FABRIC	MARKING	STAKING PIPE		
				203.0100	204.0110	208.1100	305.0120	455.0605	465.0105	606.0200	645.0120	646.0106	650.6000		690.0150
				EACH	SY	CY	TON	GAL	TON	CY	SY	LF	EACH		LF
0010	25+23	P-2	STH 35	1	110	14	85	6	31			79	1	60	EXISTING CMCP, 24"X76'
0010	34+21	P-3	STH 35		200	13	155	10	56	4	25	240	1	60	EXISTING CMCP, 66"X74'
0010	66+15	P-4	STH 35	1	153	25	119	8	43	2	15	163	1	60	EXISTING CMCP, 30"X94'
0010	98+03	P-5	STH 35	1	120	5	94	6	34	2	15	144	1	60	EXISTING CMCP, 30"X84'
0010	117+91	P-6	STH 35	1	120	4	94	6	34	2	15	85	1	60	EXISTING CMCP, 30"X68'
0010	124+51	P-7	STH 35	1	107	4	83	6	30			77	1	60	EXISTING CMCP, 24"X66'
0010	164+53	P-8	STH 35	1	130	20	101	7	37			91	1	60	EXISTING CMCP, 24"X94'
0010	183+95	P-9	STH 35		130		101	7	37			91		60	EXISTING CMCP 72"X62'
0010	185+00	P-10	STH 35	1	113	24	77	6	32	3	18	80	1	60	EXISTING CMCP, 36"X90'
0010	213+21	P-11	STH 35	1	90	3	70	5	26			67	1	60	EXISTING CMCP, 24"X62'
0010	222+00	P-12	STH 35	1	130	3	101	7	37	2	15	90	1	60	EXISTING CMCP, 30"X56'
0010	229+93	P-13	STH 35	1	130	3	101	7	37			119	1	60	EXISTING CMCP, 24"X76'
0010	240+00	P-14	STH 35	1	140	4	109	7	40	3	18	168	1	60	EXISTING CMCP, 36"X76'
0010	250+86	P-15	STH 35	1	117	4	90	6	33	2	15	108	1	60	EXISTING CMCP, 30"X74'
0010	278+85	P-16	STH 35	1	130	3	101	7	37	2	15	160	1	60	EXISTING CMCP, 30"X68'
0010	294+81	P-17	STH 35	1	130	15	101	7	37	2	15	160	1	60	EXISTING CMCP, 30"X92'
0010	320+84	P-19	STH 35	1	130	4	101	7	37	2	15	93	1	60	EXISTING CMCP, 30"X74'
0010	336+62	P-20	STH 35	1	117	3	91	6	33			83	1	60	EXISTING CMCP, 24"X58'
0010	355+59	P-21	STH 35	1	140	4	109	7	40	3	18	87	1	60	EXISTING CMCP, 36"X66'
0010	377+65	P-22	STH 35	1	130	4	101	7	37	2	15	93	1	60	EXISTING CMCP, 30"X70'
0010	389+01	P-23	STH 35	1	97	3	75	5	28			120	1	60	EXISTING CMCP, 24"X64'
TOTAL 0010				19	2664	162	2059	140	756	31	214	2398	20	1260	

REMOVING OLD STRUCTURE (STATION) 01. (34+21)

CATEGORY	STATION	LOCATION	203.0200.01	REMARKS
			LS	
0010	34+21	STH 35	1	66" CULVERT PIPE
TOTAL 0010			1	

REMOVING OLD STRUCTURE (STATION) 02. (183+95)

CATEGORY	STATION	LOCATION	203.0200.02	REMARKS
			LS	
0010	183+95	STH 35	1	72" CATTLE PASS
TOTAL 0010			1	

CULVERT MAINTENANCE									
CATEGORY	STATION	PIPE NUMBER	LOCATION	REMOVING APRON ENDWALLS 204.9060.S EACH	CLEANING CULVERT PIPES 520.8700 EACH	CULVERT PIPE CHECKS 628.7555 EACH	MARKERS CULVERT END 633.5200 EACH	SPECIAL 01. ENDWALL RESTORATION SPV.0060.01 EACH	REMARKS
0010	14+00	P-1	STH 35	2		3	2	2	EXISTING 24"X76' CACP
0010	25+23	P-2	STH 35			3	2	2	24"X78' CACP
0010	34+21	P-3	STH 35			13	2	2	72"X74' CACP
0010	66+15	P-4	STH 35			5	2	2	30"X91' CACP
0010	98+03	P-5	STH 35			5	2	2	30"X82' CACP
0010	117+91	P-6	STH 35			5	2	2	30"X66' CACP
0010	124+51	P-7	STH 35			3	2	2	24"X62' CACP
0010	164+53	P-8	STH 35			3	2	2	24"X92' CACP
0010	183+95	P-9	STH 35						
0010	185+00	P-10	STH 35			7	2	2	36"X88' CACP
0010	213+21	P-11	STH 35			3	2	2	24"X59' CACP
0010	222+00	P-12	STH 35			5	2	2	30"X52' CACP
0010	229+93	P-13	STH 35			7	2	2	36"X73' CACP
0010	240+00	P-14	STH 35			7	2	2	36"X74' CACP
0010	250+86	P-15	STH 35			5	2	2	30"X72' CACP
0010	278+85	P-16	STH 35			5	2	2	30"X66' CACP
0010	294+81	P-17	STH 35			5	2	2	30"X90' CACP
0010	308+78	P-18	STH 35		1	5	2		EXISTING 30"X128' CACP
0010	320+84	P-19	STH 35			5	2	2	30"X70' CACP
0010	336+62	P-20	STH 35			3	2	2	24"X56' CACP
0010	355+59	P-21	STH 35			7	2	2	36"X63' CACP
0010	377+65	P-22	STH 35			5	2	2	30"X65' CACP
0010	389+01	P-23	STH 35			3	2	2	24"X61' CACP
0010	428+76	P-24	STH 35	2	1	3	2	2	EXISTING 24"X64' CACP
0010	437+74	P-25	STH 35	2	1	3	2	2	EXISTING 24"X56' CACP
0010	450+20	P-26	STH 35	2	1	3	2	2	EXISTING 24"X84' CACP
0010	459+99	P-27	STH 35	2	1	3	2	2	EXISTING 24"X58' CACP
0010	466+95	P-28	STH 35	2	1	3	2	2	EXISTING 24"X64' CACP
0010	470+19	P-29	STH 35	2	1	3	2	2	EXISTING 24"X66' CACP
0010	479+74	P-30	STH 35	2	1	3	2	2	EXISTING 24"X72' CACP
0010	530+44	P-31	STH 35	2	1	3	2	2	EXISTING 24"X80' CACP
0010	535+44	P-32	STH 35	2	1	3	2	2	EXISTING 24"X64' CACP
0010	555+83	P-33	STH 35	2	1	3	2	2	EXISTING 24"X56' CACP
0010	563+62	P-34	STH 35	2	1	3	2	2	EXISTING 24"X56' CACP
0010	589+75	P-35	STH 35	2	1	3	2	2	EXISTING 24"X56' CACP
0010	602+20	P-36	STH 35	2	1	3	2	2	EXISTING 24"X84' CACP
0010	621+65	P-37	STH 35	2	1	3	2	2	EXISTING 24"X62' CACP
0010	648+96	P-38	STH 35	2	1	3	2	2	EXISTING 24"X62' CACP
0010	654+48	P-39	STH 35	2		10	2	2	EXISTING 48"X64' CACP
0010	713+21	P-40	STH 35	2	1	3	2	2	EXISTING 24"X70' CACP
SHEET SUBTOTAL				36	17	170	78	76	

CULVERT MAINTENANCE									
CATEGORY	STATION	PIPE NUMBER	LOCATION	REMOVING	CLEANING	CULVERT	MARKERS	SPECIAL 01. ENDWALL	
				APRON	CULVERT	PIPE	CULVERT	RESTORATION	
				ENDWALLS	PIPES	CHECKS	END	SPV.0060.01	
				204.9060.S	520.8700	628.7555	633.5200		
				EACH	EACH	EACH	EACH	EACH	REMARKS
0010	721+96	P-41	STH 35	2	1	3	2	2	EXISTING 24"X72' CACP
0010	740+64	P-42	STH 35	2	1	3	2	2	EXISTING 24"X66' CACP
0010	766+75	P-43	STH 35	2	1	3	2	2	EXISTING 24"X92' CACP
0010	778+53	P-44	STH 35	2	1	5	2	2	EXISTING 30"X56' CACP
0010	783+22	P-45	STH 35	2	1	3	2	2	EXISTING 24"X70' CACP
0010	789+57	P-46	STH 35	2	1	7	2	2	EXISTING 36"X66' CACP
0010	808+05	P-47	STH 35	2		7	2	2	EXISTING 36"X62' CACP
0010	840+15	P-48	STH 35	2		10	2	2	EXISTING 48"X70' CACP
0010	840+23	P-49	STH 35	2		10	2	2	EXISTING 48"X76' CACP
0010	865+56	P-50	STH 35	2	1	3	2	2	EXISTING 24"X68' CACP
0010	890+71	P-51	STH 35	2	1	3	2	2	EXISTING 24"X56' CACP
0010	907+26	P-52	STH 35	2	1	7	2	2	EXISTING 36"X74' CACP
0010	917+55	P-53	STH 35	2	1	3	2	2	EXISTING 24"X70' CACP
0010	927+33	P-54	STH 35	2	1	7	2	2	EXISTING 36"X60' CACP
0010	951+29	P-55	STH 35	2	1	3	2	2	EXISTING 24"X54' CACP
0010	961+70	P-56	STH 35	2	1	3	2	2	EXISTING 24"X80' CACP
0010	981+04	P-57	STH 35	2	1	3	2	2	EXISTING 24"X66' CACP
0010	994+39	P-58	STH 35	2	1	3	2	2	EXISTING 24"X68' CACP
0010	1004+03	P-59	STH 35	2	1	3	2	2	EXISTING 24"X66' CACP
0010	1015+33	P-60	STH 35	2	1	3	2	2	EXISTING 24"X74' CACP
0010	1031+02	P-61	STH 35	2		5	2	2	EXISTING 30"X58' CACP
0010	1048+97	P-62	STH 35	2	1	3	2	2	EXISTING 24"X118' CACP
0010	1055+20	P-63	STH 35	2	1	3	2	2	EXISTING 24"X58' CACP
0010	1094+05	P-64	STH 35	2		7	2	2	EXISTING 36"X62' CACP
0010	1107+31	P-65	STH 35	2	1	3	2	2	EXISTING 24"X62' CACP
0010	1136+00	P-66	STH 35	2		3	2	2	EXISTING 24"X68' CACP
0010	1150+61	P-67	STH 35	2	1	3	2	2	EXISTING 24"X72' CACP
0010	1168+69	P-68	STH 35	2	1	3	2	2	EXISTING 24"X90' CACP
0010	1187+15	P-69	STH 35	2		3	2	2	EXISTING 24"X76' CACP
0010	1207+66	P-70	STH 35	2		5	2	2	EXISTING 30"X58' CACP
0010	1226+50	P-71	STH 35	2		10	2	2	EXISTING 48"X88' CACP
0010	1245+05	P-72	STH 35	2	1	3	2	2	EXISTING 24"X62' CACP
0010	1266+08	P-73	STH 35	2		7	2	2	EXISTING 36"X78' CACP
0010	1293+22	P-74	STH 35	2	1	3	2	2	EXISTING 24"X86' CACP
0010	1315+32	P-75	STH 35	2	1	3	2	2	EXISTING 24"X64' CACP
0010	1329+94	P-76	STH 35	2	1	3	2	2	EXISTING 24"X68' CACP
0010	1334+44	P-77	STH 35	2	1	3	2	2	EXISTING 24"X62' CACP
0010	1345+38	P-78	STH 35	2	1	3	2	2	EXISTING 24"X82' CACP
0010	1355+77	P-79	STH 35	2	1	3	2	2	EXISTING 24"X70' CACP
0010	1379+85	P-80	STH 35	2	1	3	2	2	EXISTING 24"X68' CACP
SHEET SUBTOTAL				80	30	171	80	80	

CULVERT MAINTENANCE

CATEGORY	STATION	PIPE NUMBER	LOCATION	REMOVING APRON ENDWALLS 204.9060.S EACH	CLEANING CULVERT PIPES 520.8700 EACH	CULVERT PIPE CHECKS 628.7555 EACH	MARKERS CULVERT END 633.5200 EACH	SPECIAL 01. ENDWALL RESTORATION SPV.0060.01 EACH	REMARKS
0010	1385+22	P-81	STH 35	2		7	2	2	EXISTING 36"X62' CACP
0010	1389+71	P-82	STH 35	2		7	2	2	EXISTING 36"X56' CACP
0010	1396+73	P-83	STH 35	2	1	3	2	2	EXISTING 24"X68' CACP
0010	1404+17	P-84	STH 35	2	1	7	2	2	EXISTING 36"X80' CACP
0010	1411+30	P-85	STH 35	2	1	7	2	2	EXISTING 36"X72' CACP
0010	1419+20	P-86	STH 35	2	1	10	2	2	EXISTING 48"X58' CACP
0010	1421+46	P-87	STH 35	2	1	7	2	2	EXISTING 36"X58' CACP
0010	1443+21	P-88	STH 35	2		5	2	2	EXISTING 30"X82' CACP
0010	1451+06	P-89	STH 35	2	1	3	2	2	EXISTING 24"X90' CACP
0010	1465+77	P-90	STH 35	2	1	3	2	2	EXISTING 24"X62' CACP
0010	496+30	P-91	STH 35	2	1	3	2	2	EXISTING 24"X84' CACP
0010	500+80	P-92	STH 35	2	1	3	2	2	EXISTING 24"X66' CACP
SHEET SUBTOTAL				24	9	65	24	24	
TOTAL				140	56	406	182	180	

CULVERT PIPE CORRUGATED ALUMINUM 24-INCH

CATEGORY	STATION	PIPE NUMBER	MIN. THICKNESS	LOCATION	525.0124 LF
0010	25+23	P-2	0.075"	STH 35	78
0010	124+51	P-7	0.075"	STH 35	62
0010	164+53	P-8	0.075"	STH 35	92
0010	213+21	P-11	0.075"	STH 35	59
0010	229+93	P-13	0.075"	STH 35	66
0010	336+62	P-20	0.075"	STH 35	56
0010	389+01	P-23	0.075"	STH 35	61
TOTAL 0010					474

CULVERT PIPE CORRUGATED ALUMINUM 30-INCH

CATEGORY	STATION	PIPE NUMBER	MIN. THICKNESS	LOCATION	525.0130 LF
0010	66+15	P-4	0.075"	STH 35	91
0010	98+03	P-5	0.075"	STH 35	82
0010	117+91	P-6	0.075"	STH 35	66
0010	222+00	P-12	0.075"	STH 35	52
0010	250+86	P-15	0.075"	STH 35	72
0010	278+85	P-16	0.075"	STH 35	66
0010	294+81	P-17	0.075"	STH 35	90
0010	320+84	P-19	0.075"	STH 35	70
0010	377+65	P-22	0.075"	STH 35	65
TOTAL 0010					654

ALUMINUM APRON ENDWALLS FOR ALUMINUM CULVERT PIPE 24-INCH

525.0324					
CATEGORY	STATION	PIPE NUMBER	LOCATION	EACH	REMARKS
0010	14+00	P-1	STH 35	2	LT AND RT
0010	25+23	P-2	STH 35	2	LT AND RT
0010	124+51	P-7	STH 35	2	LT AND RT
0010	164+53	P-8	STH 35	2	LT AND RT
0010	213+21	P-11	STH 35	2	LT AND RT
0010	229+93	P-13	STH 35	2	LT AND RT
0010	336+62	P-20	STH 35	2	LT AND RT
0010	389+01	P-23	STH 35	2	LT AND RT
0010	428+76	P-24	STH 35	2	LT AND RT
0010	437+74	P-25	STH 35	2	LT AND RT
0010	450+20	P-26	STH 35	2	LT AND RT
0010	459+99	P-27	STH 35	2	LT AND RT
0010	466+95	P-28	STH 35	2	LT AND RT
0010	470+19	P-29	STH 35	2	LT AND RT
0010	479+74	P-30	STH 35	2	LT AND RT
0010	530+44	P-31	STH 35	2	LT AND RT
0010	535+44	P-32	STH 35	2	LT AND RT
0010	555+83	P-33	STH 35	2	LT AND RT
0010	563+62	P-34	STH 35	2	LT AND RT
0010	589+75	P-35	STH 35	2	LT AND RT
0010	602+20	P-36	STH 35	2	LT AND RT
0010	621+65	P-37	STH 35	2	LT AND RT
0010	648+96	P-38	STH 35	2	LT AND RT
0010	713+21	P-40	STH 35	2	LT AND RT
0010	721+96	P-41	STH 35	2	LT AND RT
0010	740+64	P-42	STH 35	2	LT AND RT
0010	766+75	P-43	STH 35	2	LT AND RT
0010	783+22	P-45	STH 35	2	LT AND RT
0010	865+56	P-50	STH 35	2	LT AND RT
0010	890+71	P-51	STH 35	2	LT AND RT
0010	917+55	P-53	STH 35	2	LT AND RT
0010	951+29	P-55	STH 35	2	LT AND RT
0010	961+70	P-56	STH 35	2	LT AND RT
0010	981+04	P-57	STH 35	2	LT AND RT
0010	994+39	P-58	STH 35	2	LT AND RT
0010	1004+03	P-59	STH 35	2	LT AND RT
0010	1015+33	P-60	STH 35	2	LT AND RT
0010	1048+97	P-62	STH 35	2	LT AND RT
0010	1055+20	P-63	STH 35	2	LT AND RT
0010	1107+31	P-65	STH 35	2	LT AND RT

ALUMINUM APRON ENDWALLS FOR ALUMINUM CULVERT PIPE 24-INCH

525.0324					
CATEGORY	STATION	PIPE NUMBER	LOCATION	EACH	REMARKS
0010	1136+00	P-66	STH 35	2	LT AND RT
0010	1150+61	P-67	STH 35	2	LT AND RT
0010	1168+69	P-68	STH 35	2	LT AND RT
0010	1187+15	P-69	STH 35	2	LT AND RT
0010	1245+05	P-72	STH 35	2	LT AND RT
0010	1293+22	P-74	STH 35	2	LT AND RT
0010	1315+32	P-75	STH 35	2	LT AND RT
0010	1329+94	P-76	STH 35	2	LT AND RT
0010	1334+44	P-77	STH 35	2	LT AND RT
0010	1345+38	P-78	STH 35	2	LT AND RT
0010	1355+77	P-79	STH 35	2	LT AND RT
0010	1379+85	P-80	STH 35	2	LT AND RT
0010	1396+73	P-83	STH 35	2	LT AND RT
0010	1451+06	P-89	STH 35	2	LT AND RT
0010	1465+77	P-90	STH 35	2	LT AND RT
0010	496+30	P-91	STH 35	2	LT AND RT
0010	500+80	P-92	STH 35	2	LT AND RT

TOTAL 0010 114

CULVERT PIPE CORRUGATED ALUMINUM 36-INCH

525.0136					
CATEGORY	STATION	PIPE NUMBER	MIN. THICKNESS	LOCATION	LF
0010	185+00	P-10	0.105"	STH 35	88
0010	240+00	P-14	0.105"	STH 35	74
0010	355+59	P-21	0.105"	STH 35	63
TOTAL 0010					225

CULVERT PIPE CORRUGATED ALUMINUM 72-INCH

525.0172					
CATEGORY	STATION	PIPE NUMBER	MIN. THICKNESS	LOCATION	LF
0010	34+21	P-3	0.164"	STH 35	74
TOTAL 0010					74

ALUMINUM APRON ENDWALLS FOR ALUMINUM CULVERT PIPE 30-INCH

525.0330					
CATEGORY	STATION	PIPE NUMBER	LOCATION	EACH	REMARKS
0010	66+15	P-4	STH 35	2	LT AND RT
0010	98+03	P-5	STH 35	2	LT AND RT
0010	117+91	P-6	STH 35	2	LT AND RT
0010	222+00	P-12	STH 35	2	LT AND RT
0010	250+86	P-15	STH 35	2	LT AND RT
0010	278+85	P-16	STH 35	2	LT AND RT
0010	294+81	P-17	STH 35	2	LT AND RT
0010	320+84	P-19	STH 35	2	LT AND RT
0010	377+65	P-22	STH 35	2	LT AND RT
0010	778+53	P-44	STH 35	2	LT AND RT
0010	1031+02	P-61	STH 35	2	LT AND RT
0010	1207+66	P-70	STH 35	2	LT AND RT
0010	1443+21	P-88	STH 35	2	LT AND RT
TOTAL 0010				26	

ALUMINUM APRON ENDWALLS FOR ALUMINUM CULVERT PIPE 36-INCH

525.0336					
CATEGORY	STATION	PIPE NUMBER	LOCATION	EACH	REMARKS
0010	185+00	P-10	STH 35	2	LT AND RT
0010	240+00	P-14	STH 35	2	LT AND RT
0010	355+59	P-21	STH 35	2	LT AND RT
0010	789+57	P-46	STH 35	2	LT AND RT
0010	808+05	P-47	STH 35	2	LT AND RT
0010	907+26	P-52	STH 35	2	LT AND RT
0010	927+33	P-54	STH 35	2	LT AND RT
0010	1094+05	P-64	STH 35	2	LT AND RT
0010	1266+08	P-73	STH 35	2	LT AND RT
0010	1385+22	P-81	STH 35	2	LT AND RT
0010	1389+71	P-82	STH 35	2	LT AND RT
0010	1404+17	P-84	STH 35	2	LT AND RT
0010	1411+30	P-85	STH 35	2	LT AND RT
0010	1421+46	P-87	STH 35	2	LT AND RT
TOTAL 0010				28	

ALUMINUM APRON ENDWALLS FOR ALUMINUM CULVERT PIPE 48-INCH

525.0348					
CATEGORY	STATION	PIPE NUMBER	LOCATION	EACH	REMARKS
0010	654+48	P-39	STH 35	2	LT AND RT
0010	840+15	P-48	STH 35	2	LT AND RT
0010	840+23	P-49	STH 35	2	LT AND RT
0010	1226+50	P-71	STH 35	2	LT AND RT
0010	1419+20	P-86	STH 35	2	LT AND RT
TOTAL 0010				10	

ALUMINUM APRON ENDWALLS FOR ALUMINUM CULVERT PIPE 72-INCH

525.0372					
CATEGORY	STATION	PIPE NUMBER	LOCATION	EACH	REMARKS
0010	34+21	P-3	STH 35	2	LT AND RT
TOTAL 0010				2	

SILT FENCE

628.1504					
CATEGORY	STA	PIPE NUMBER	LOCATION	LF	REMARKS
0010	25+23	P-2	STH 35	150	LT AND RT
0010	34+21	P-3	STH 35	150	LT AND RT
0010	66+15	P-4	STH 35	150	LT AND RT
0010	98+03	P-5	STH 35	150	LT AND RT
0010	117+91	P-6	STH 35	150	LT AND RT
0010	124+51	P-7	STH 35	150	LT AND RT
0010	164+53	P-8	STH 35	150	LT AND RT
0010	183+95	P-9	STH 35	150	LT AND RT
0010	185+00	P-10	STH 35	150	LT AND RT
0010	213+21	P-11	STH 35	150	LT AND RT
0010	222+00	P-12	STH 35	150	LT AND RT
0010	229+93	P-13	STH 35	150	LT AND RT
0010	240+00	P-14	STH 35	150	LT AND RT
0010	250+86	P-15	STH 35	150	LT AND RT
0010	278+85	P-16	STH 35	150	LT AND RT
0010	294+81	P-17	STH 35	150	LT AND RT
0010	320+84	P-19	STH 35	150	LT AND RT
0010	336+62	P-20	STH 35	150	LT AND RT
0010	355+59	P-21	STH 35	150	LT AND RT
0010	377+65	P-22	STH 35	150	LT AND RT
0010	389+01	P-23	STH 35	150	LT AND RT
TOTAL 0010				3150	

SILT FENCE MAINTENANCE

628.1520					
CATEGORY	STA	PIPE NUMBER	LOCATION	LF	REMARKS
0010	25+23	P-2	STH 35	150	LT AND RT
0010	34+21	P-3	STH 35	150	LT AND RT
0010	66+15	P-4	STH 35	150	LT AND RT
0010	98+03	P-5	STH 35	150	LT AND RT
0010	117+91	P-6	STH 35	150	LT AND RT
0010	124+51	P-7	STH 35	150	LT AND RT
0010	164+53	P-8	STH 35	150	LT AND RT
0010	183+95	P-9	STH 35	150	LT AND RT
0010	185+00	P-10	STH 35	150	LT AND RT
0010	213+21	P-11	STH 35	150	LT AND RT
0010	222+00	P-12	STH 35	150	LT AND RT
0010	229+93	P-13	STH 35	150	LT AND RT
0010	240+00	P-14	STH 35	150	LT AND RT
0010	250+86	P-15	STH 35	150	LT AND RT
0010	278+85	P-16	STH 35	150	LT AND RT
0010	294+81	P-17	STH 35	150	LT AND RT
0010	320+84	P-19	STH 35	150	LT AND RT
0010	336+62	P-20	STH 35	150	LT AND RT
0010	355+59	P-21	STH 35	150	LT AND RT
0010	377+65	P-22	STH 35	150	LT AND RT
0010	389+01	P-23	STH 35	150	LT AND RT
TOTAL 0010				3150	

MOBILIZATIONS EROSION CONTROL

628.1905			
CATEGORY	LOCATION	EACH	REMARKS
0010	STH 35	5	
TOTAL 0010		5	

MOBILIZATIONS EMERGENCY EROSION CONTROL

		628.1910	
CATEGORY	LOCATION	EACH	REMARKS
0010	STH 35	3	
TOTAL 0010		3	

FIELD OFFICE TYPE B

		642.5001	
CATEGORY	LOCATION	EACH	REMARKS
0010	STH 35	1	
TOTAL 0010		1	

TRAFFIC CONTROL (PROJECT) 01. (8010-01-63)

		643.0100	
CATEGORY	LOCATION	EACH	
0010	STH 35	1	
TOTAL 0010		1	

TRAFFIC CONTROL DRUMS

		643.0300	
CATEGORY	LOCATION	DAY	
0010	STH 35	2500	
TOTAL 0010		2500	

TRAFFIC CONTROL SIGNS

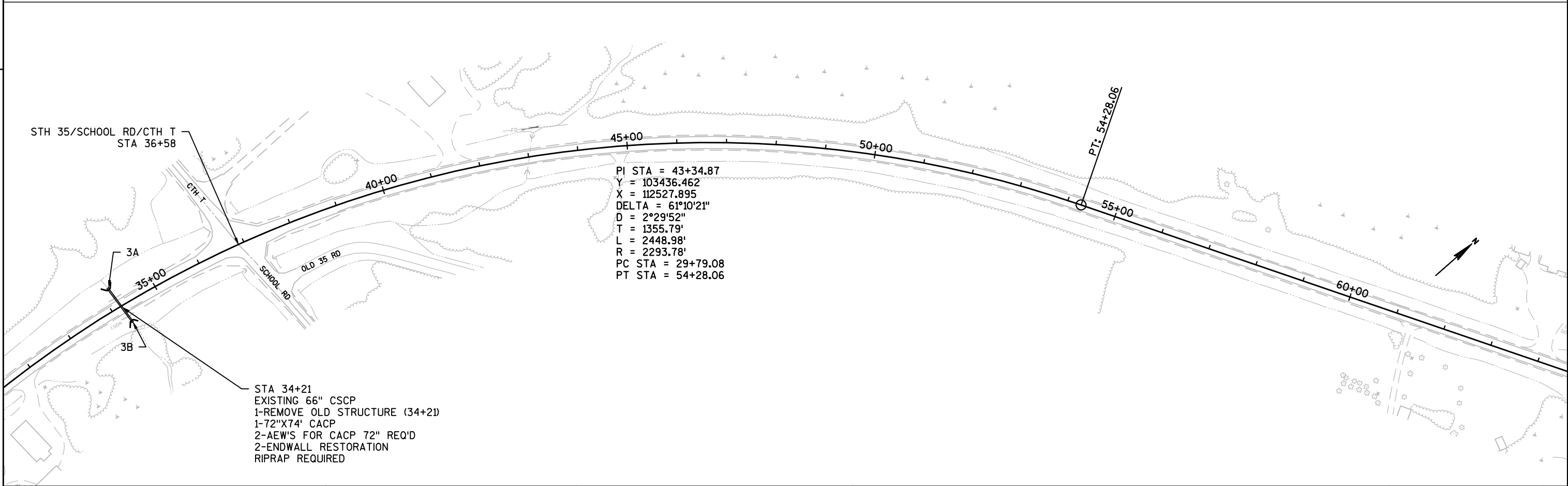
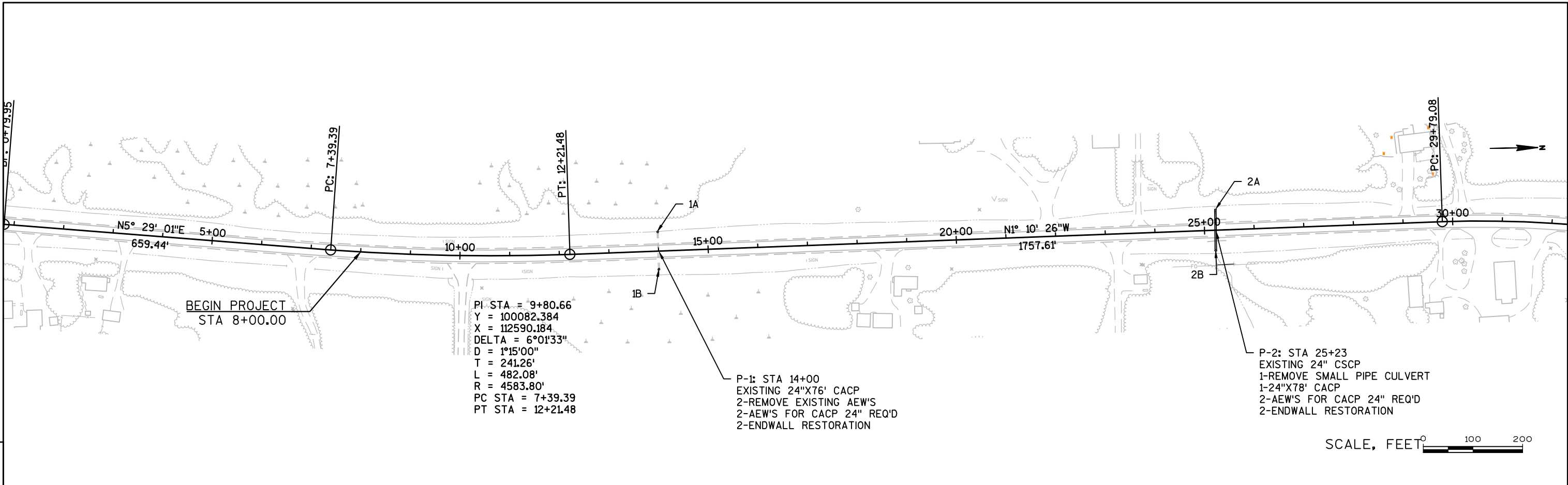
		643.0900	
CATEGORY	LOCATION	DAY	REMARKS
0010	STH 35	4000	
TOTAL 0010		4000	

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. (8010-01-63)

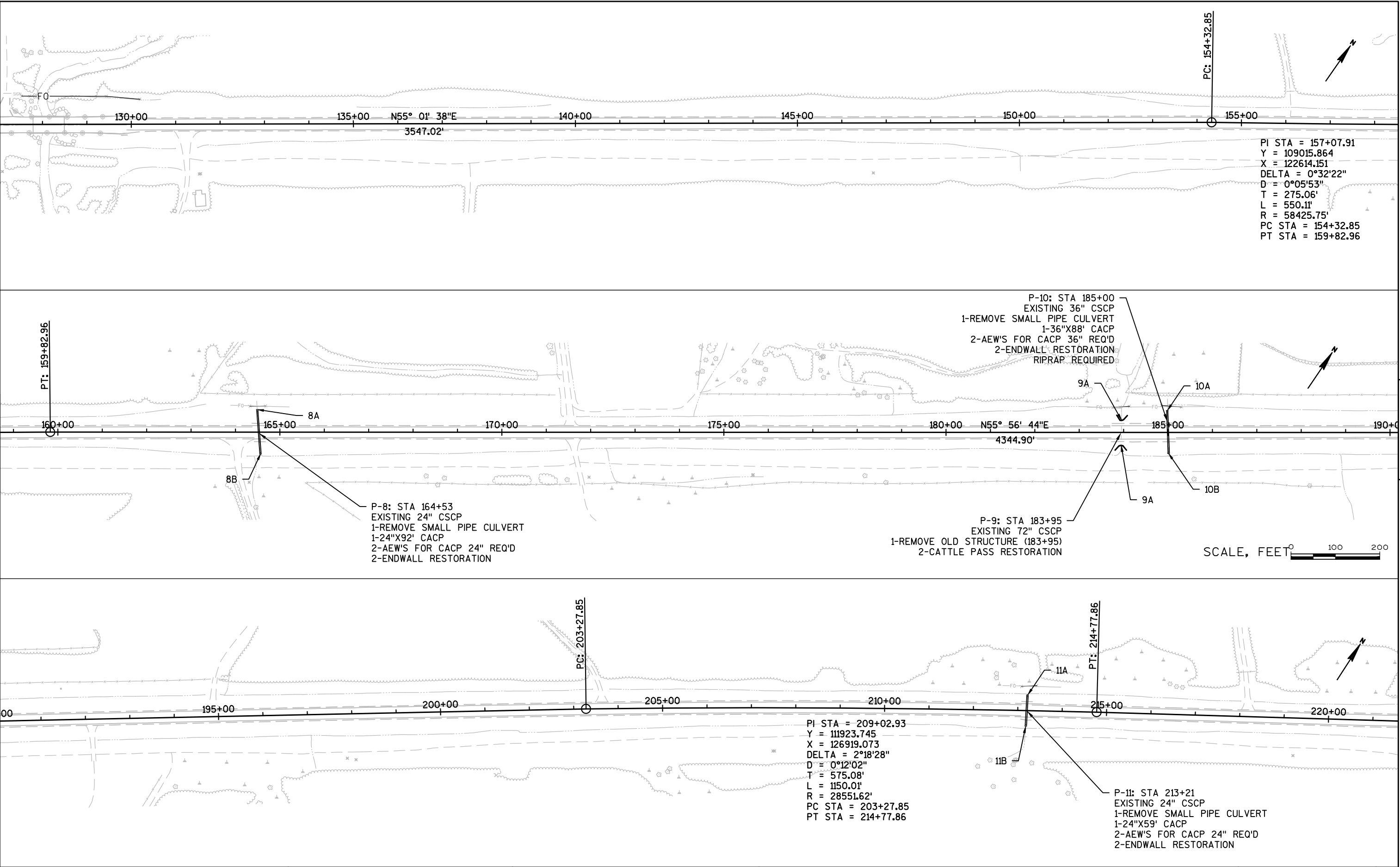
		650.9910	
CATEGORY	LOCATION	LS	
0010	STH 35	1	
TOTAL 0010		1	

SPECIAL 02. CATTLE PASS RESTORATION

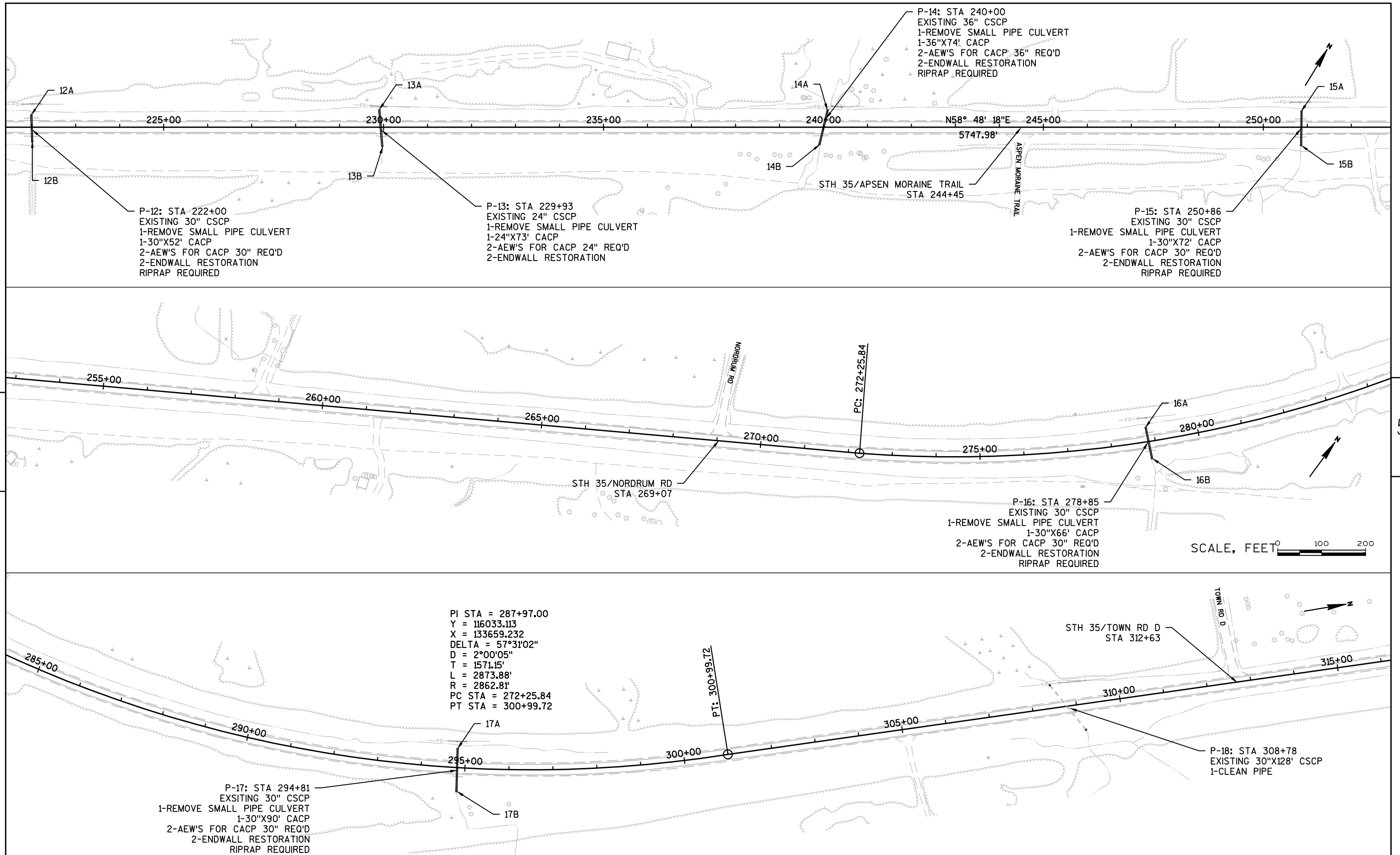
		SPV.0060.02		
CATEGORY	STATION	LOCATION	EACH	REMARKS
0010	183+95	STH 35	2	CATTLE PASS REMOVAL
TOTAL 0010			2	



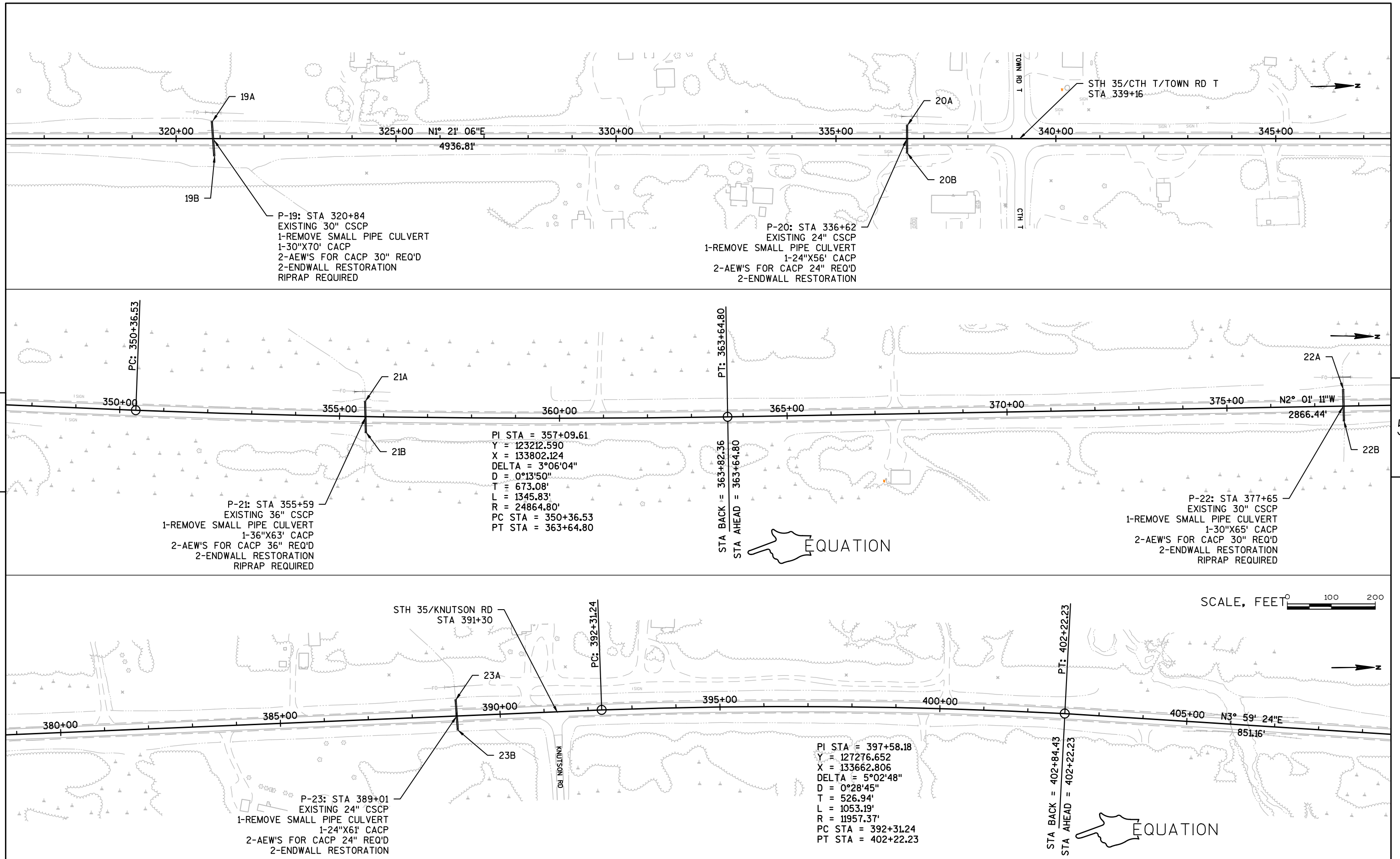
PROJECT NO: 8010-01-63	HWY: STH 35	COUNTY: DOUGLAS	PLAN	SHEET	E
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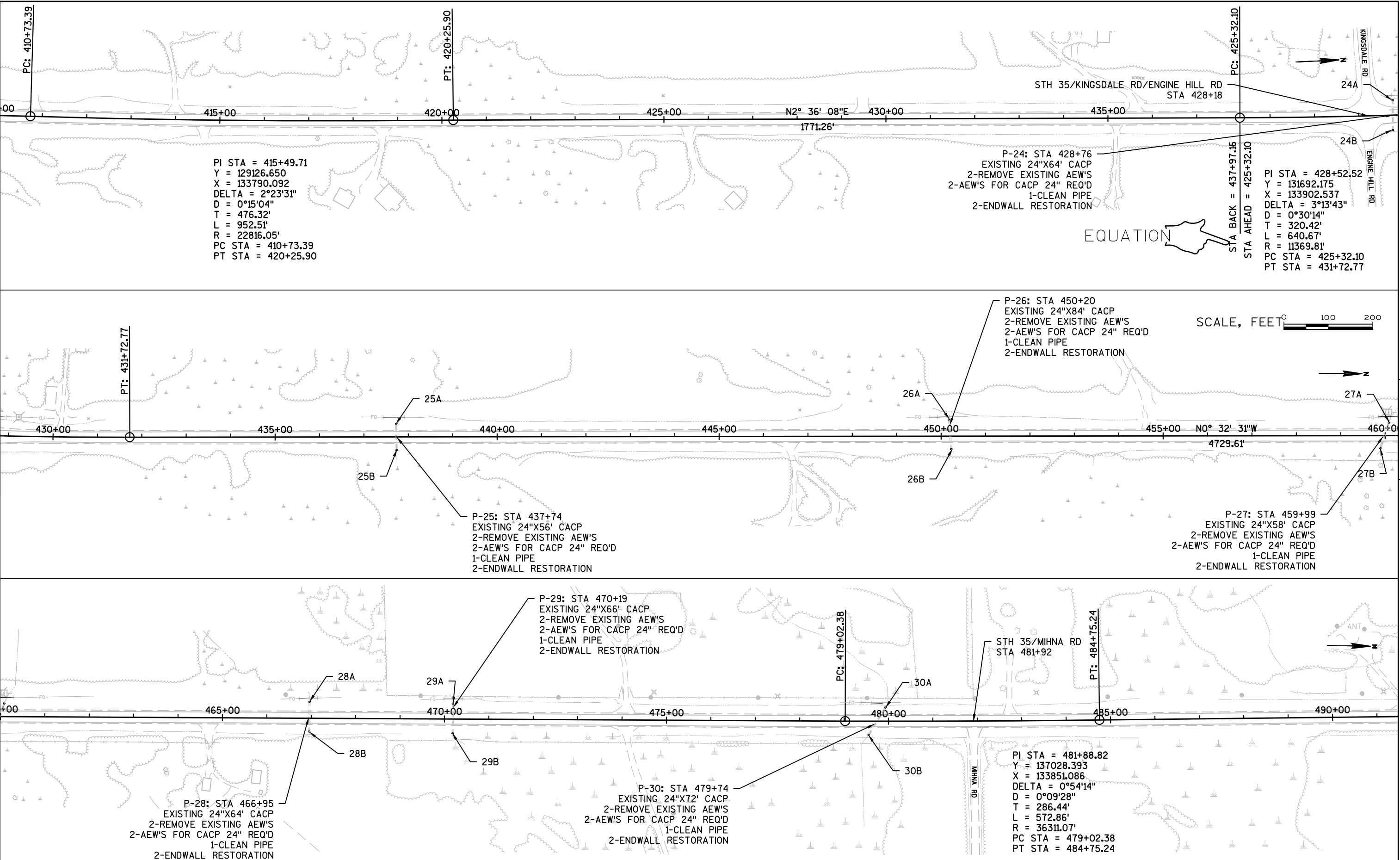


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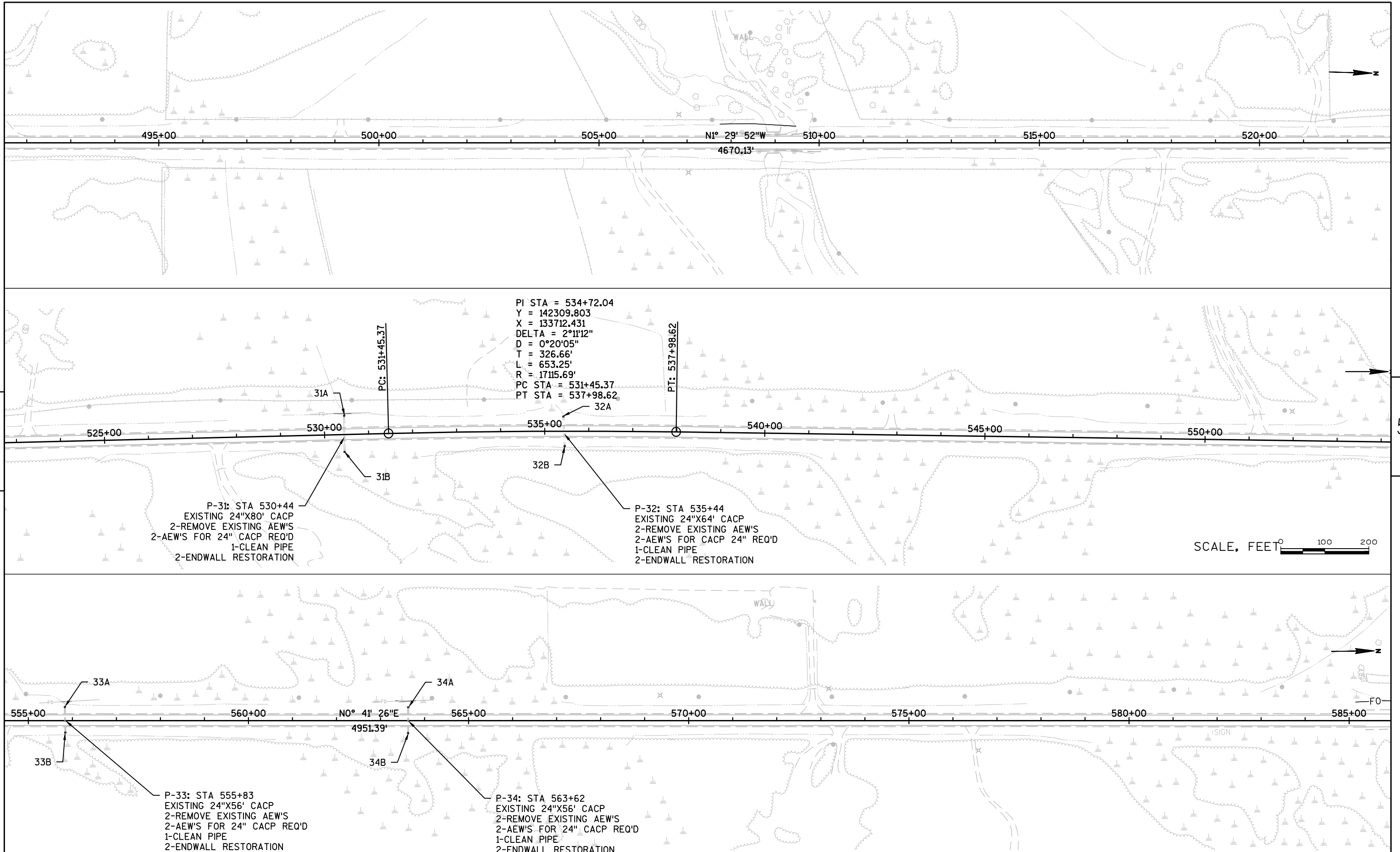


PROJECT NO: 8010-01-63	HWY: STH 35	COUNTY: DOUGLAS	PLAN	SHEET	----- E
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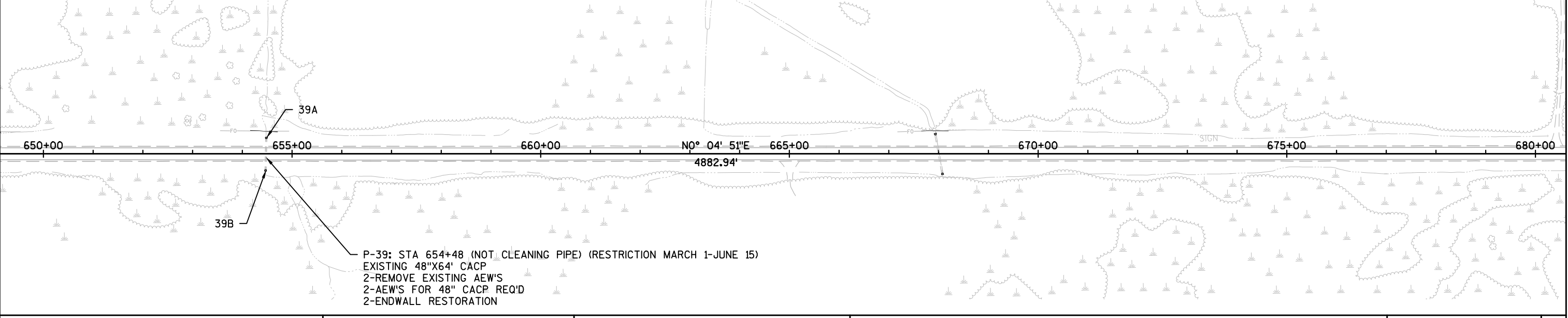
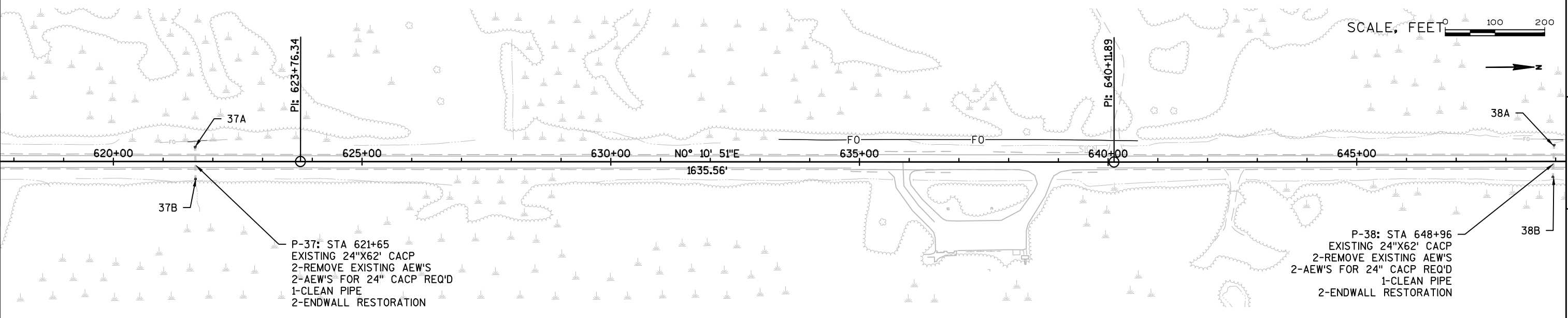
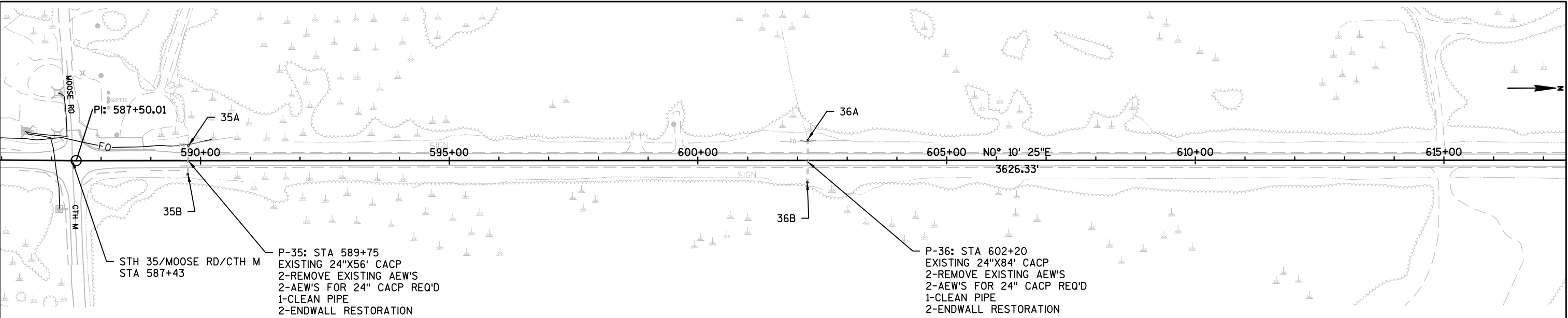




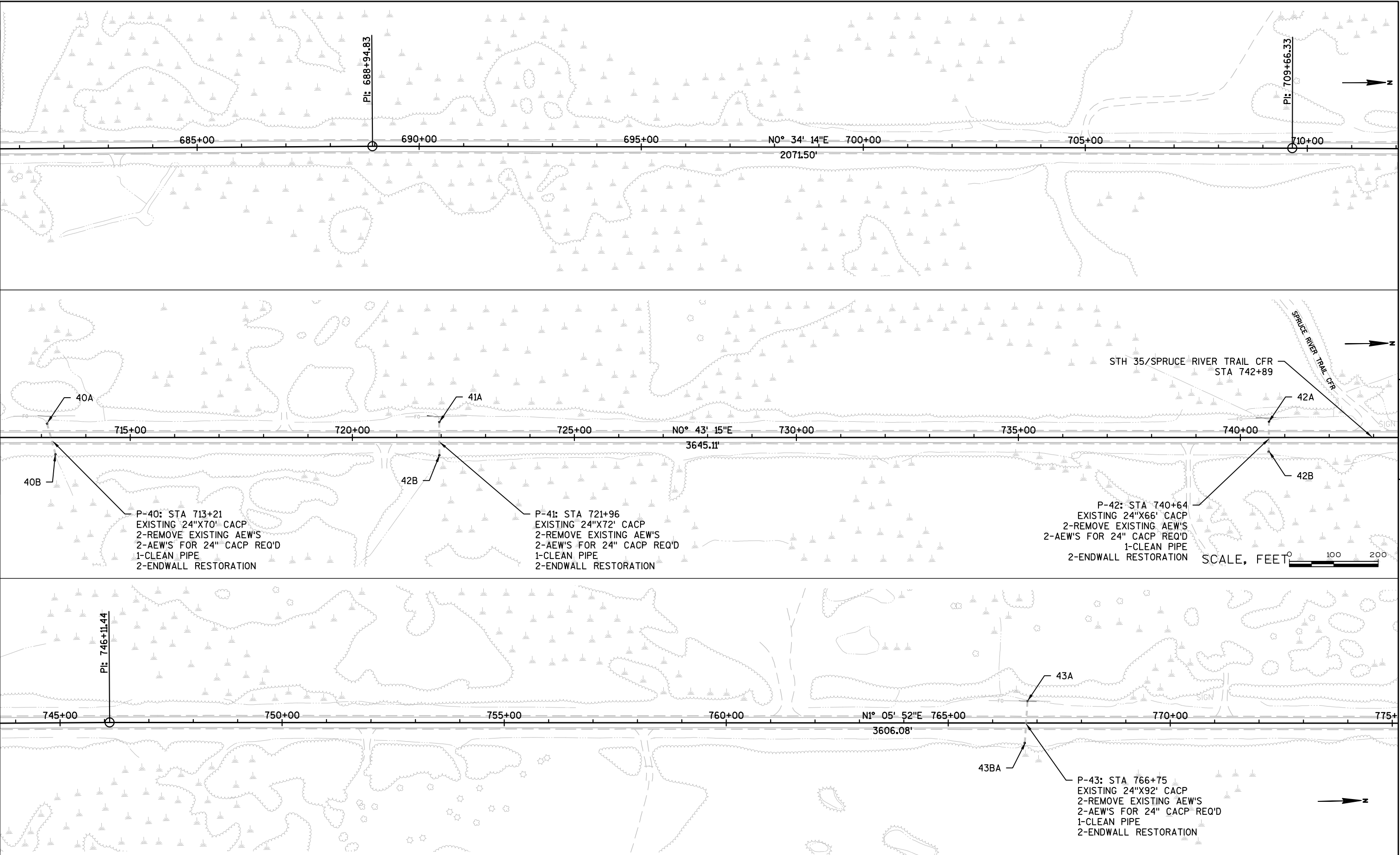
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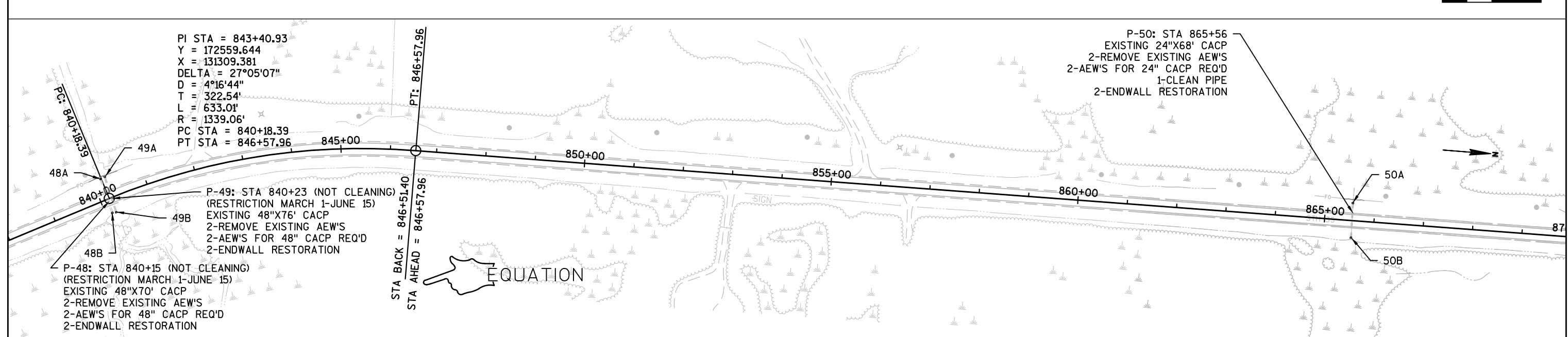
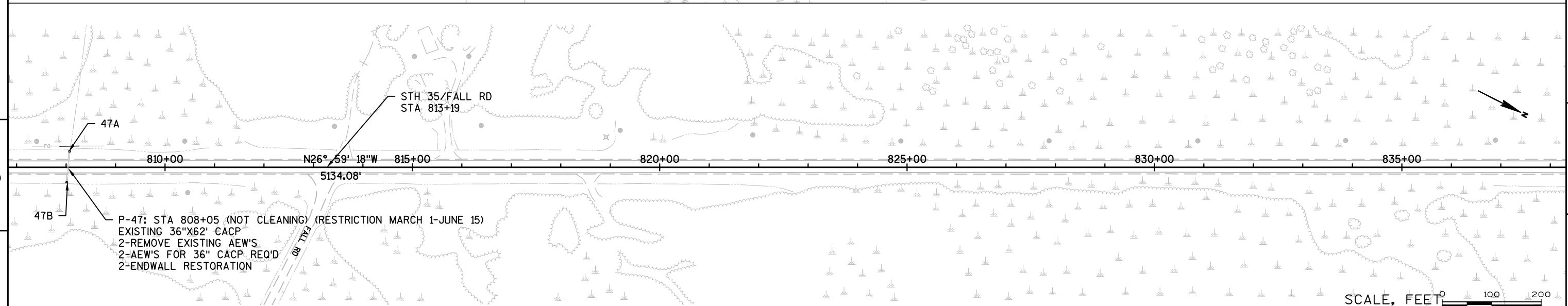
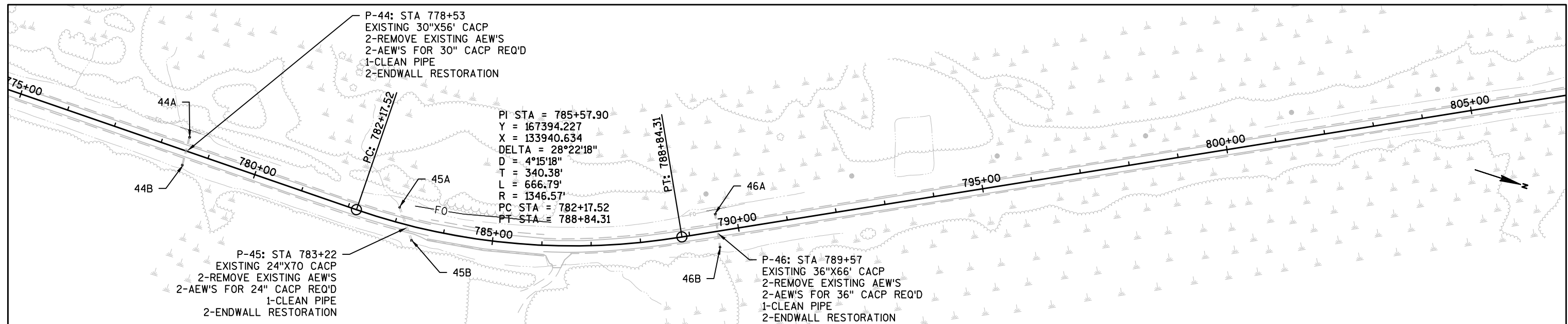
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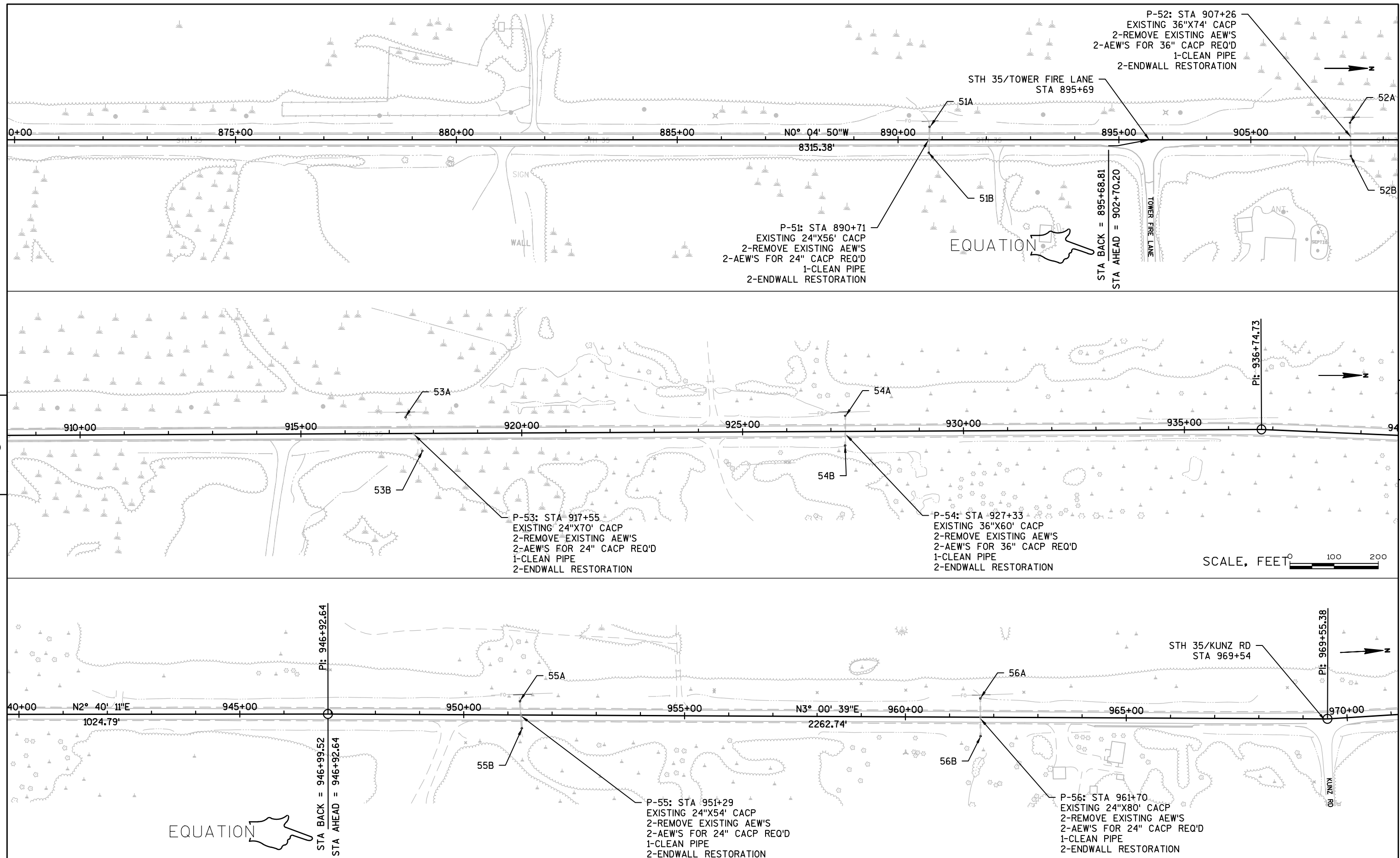
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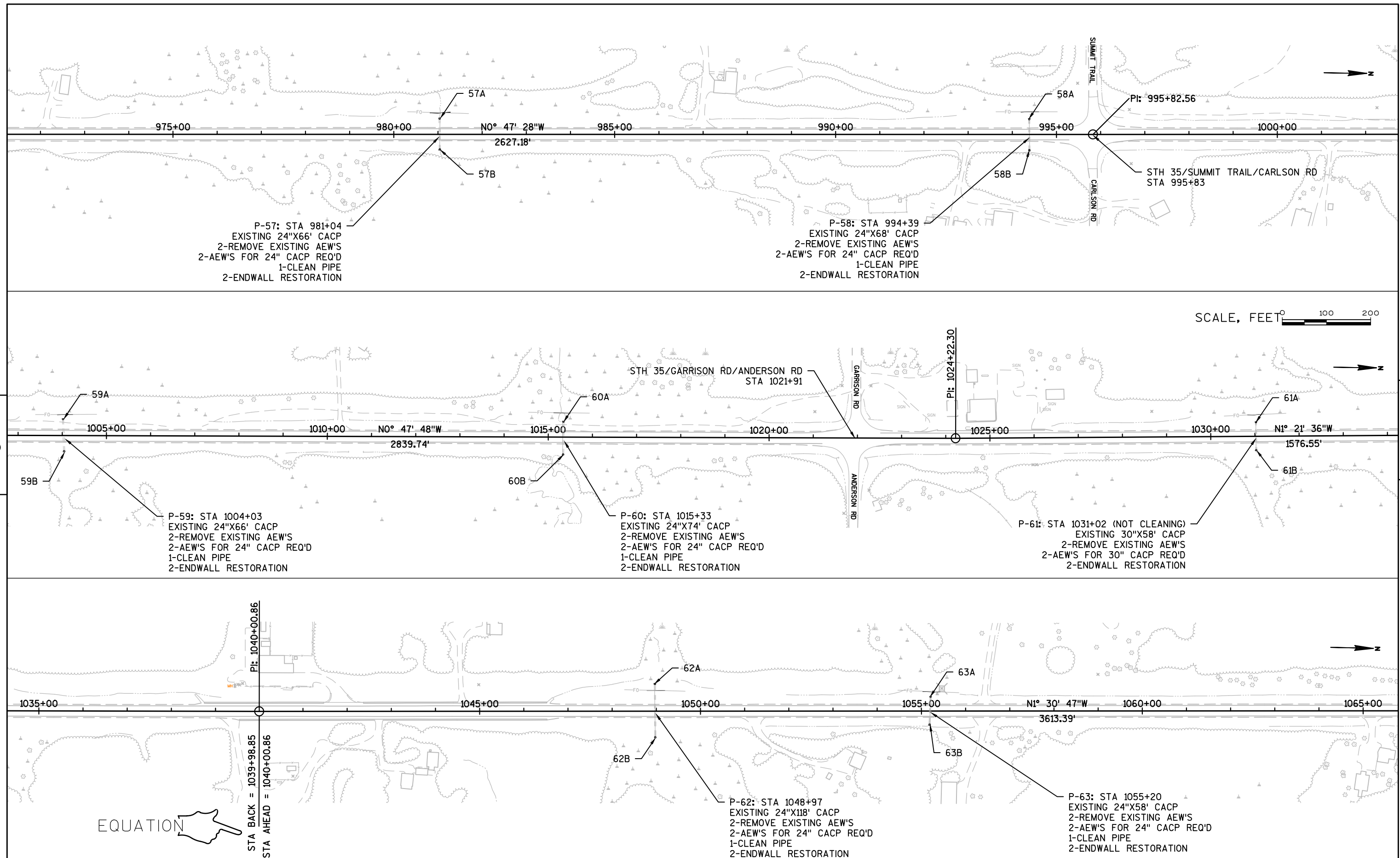
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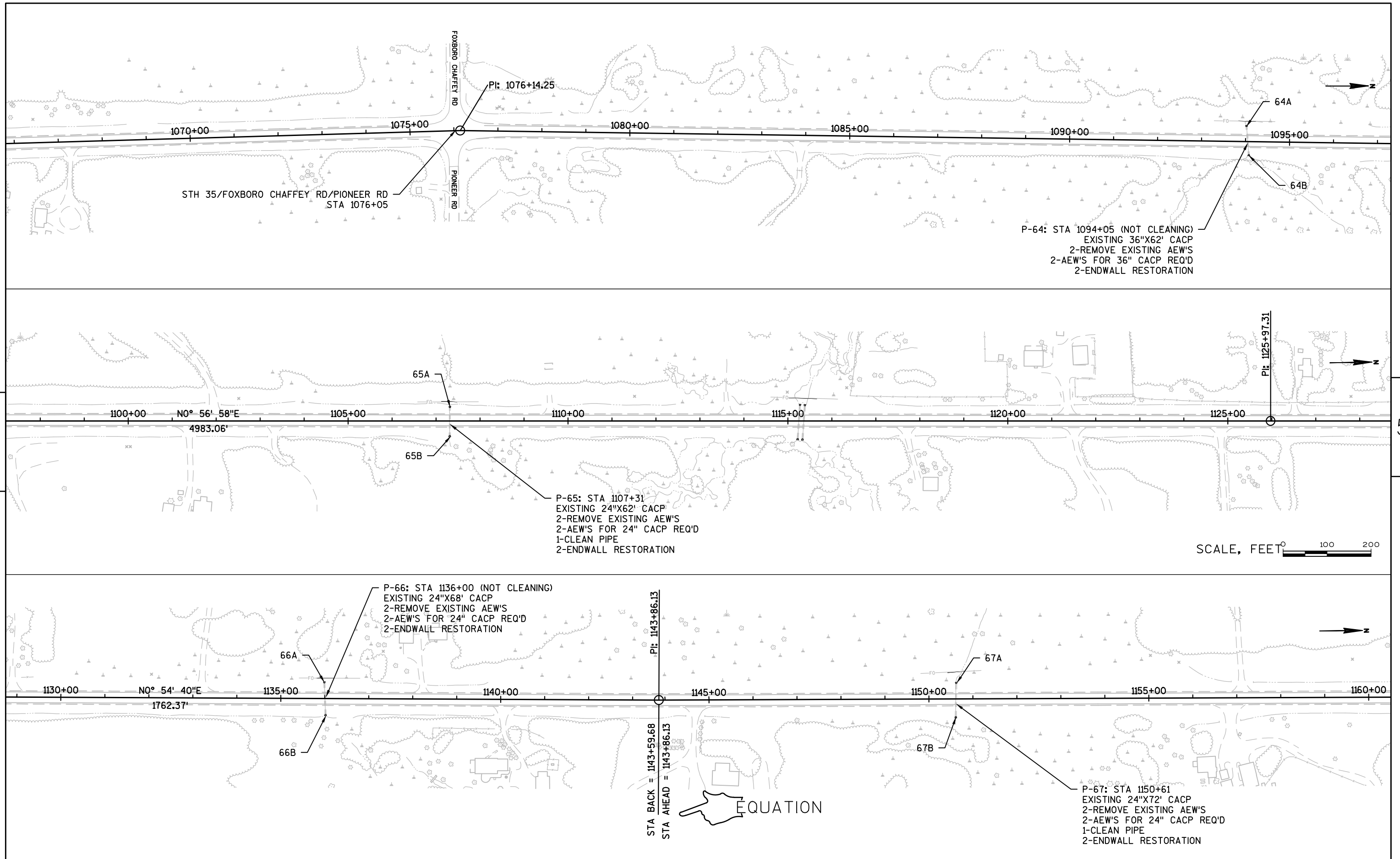
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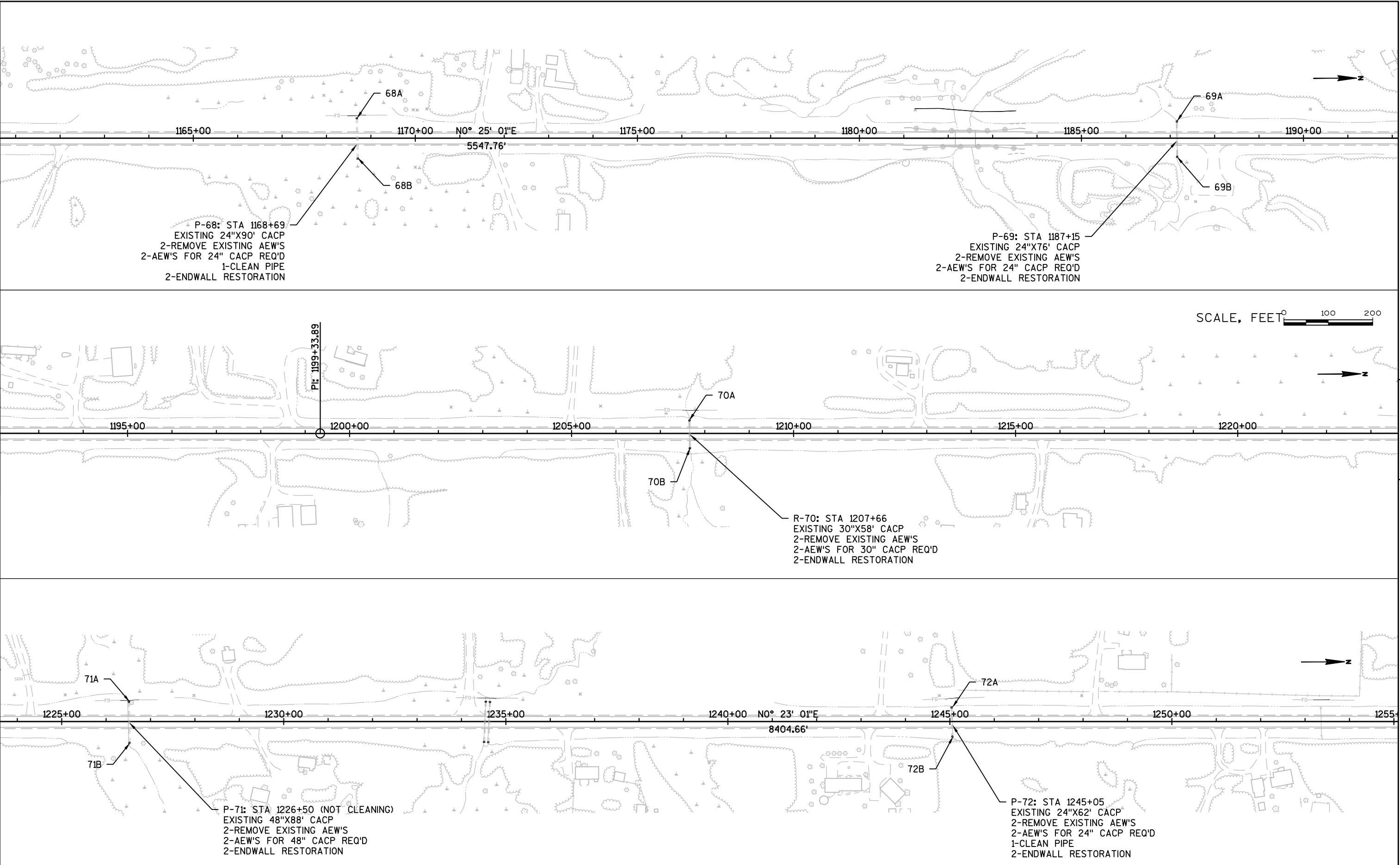
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PROJECT NO: 8010-01-63	HWY: STH 35	COUNTY: DOUGLAS	PLAN	SHEET	-----E
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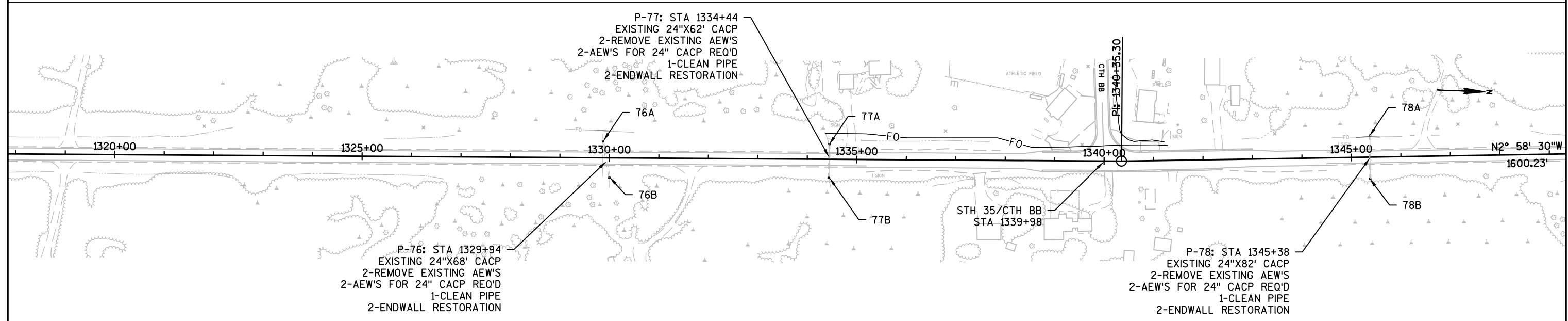
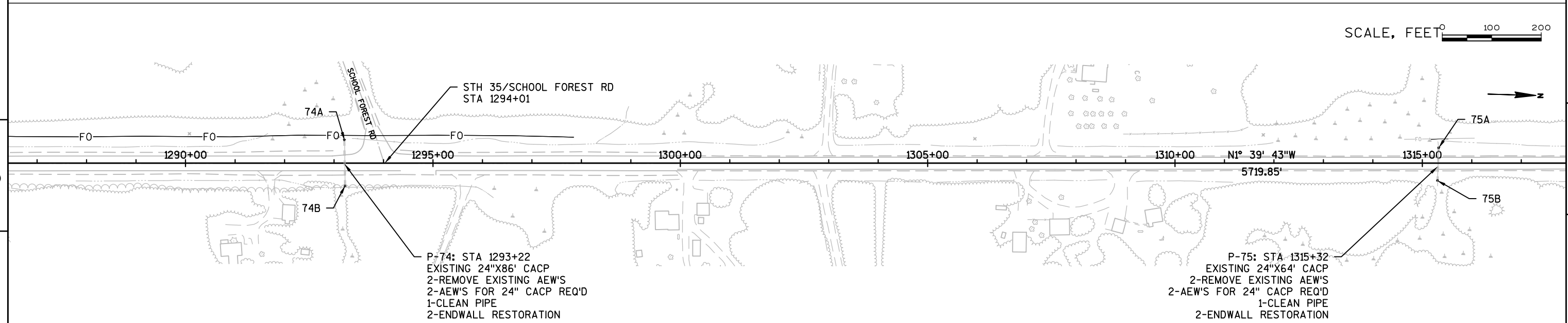
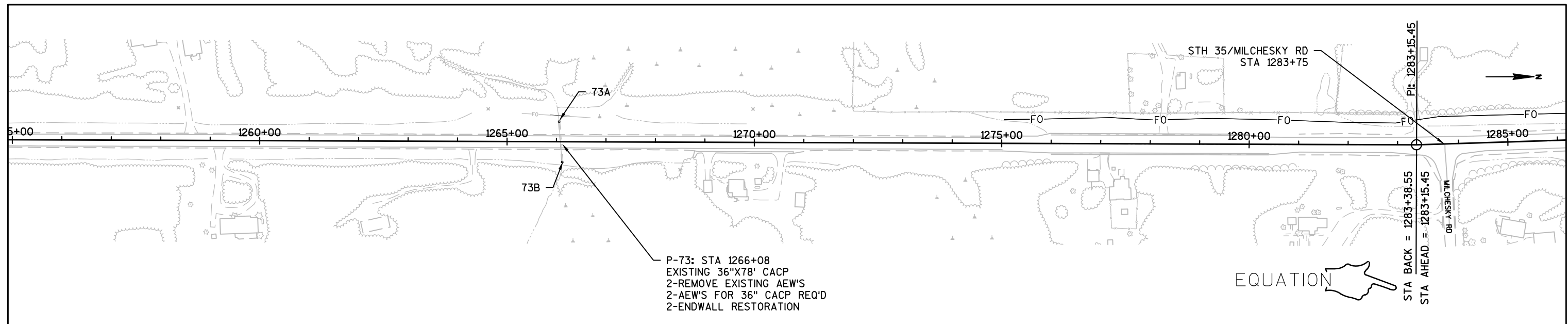
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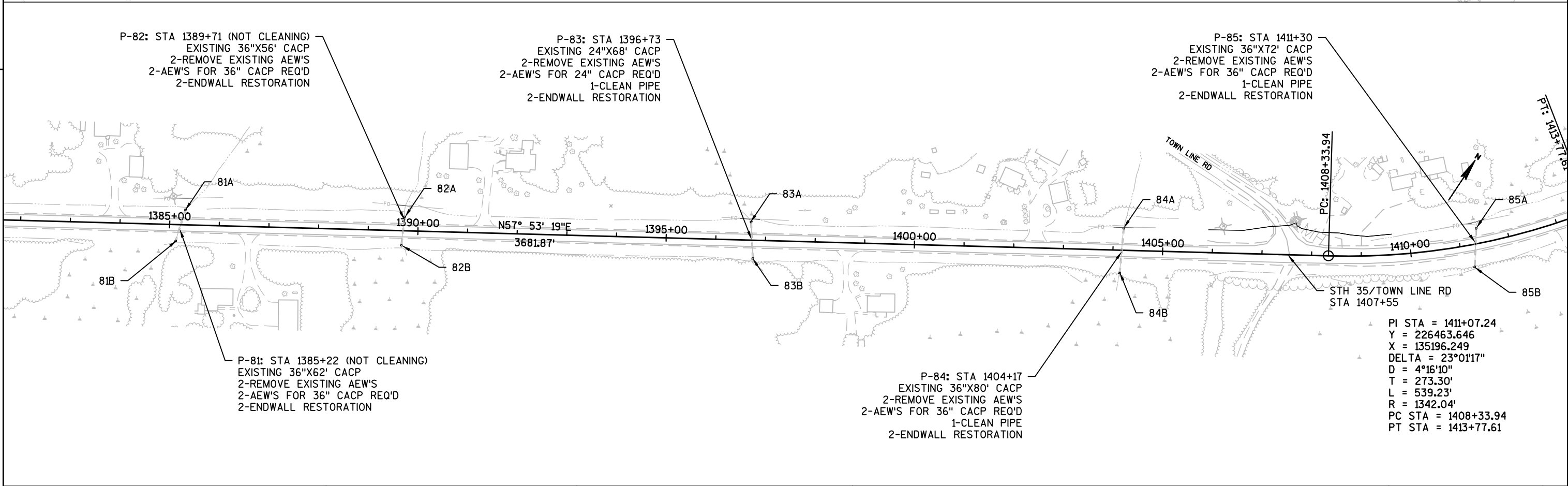
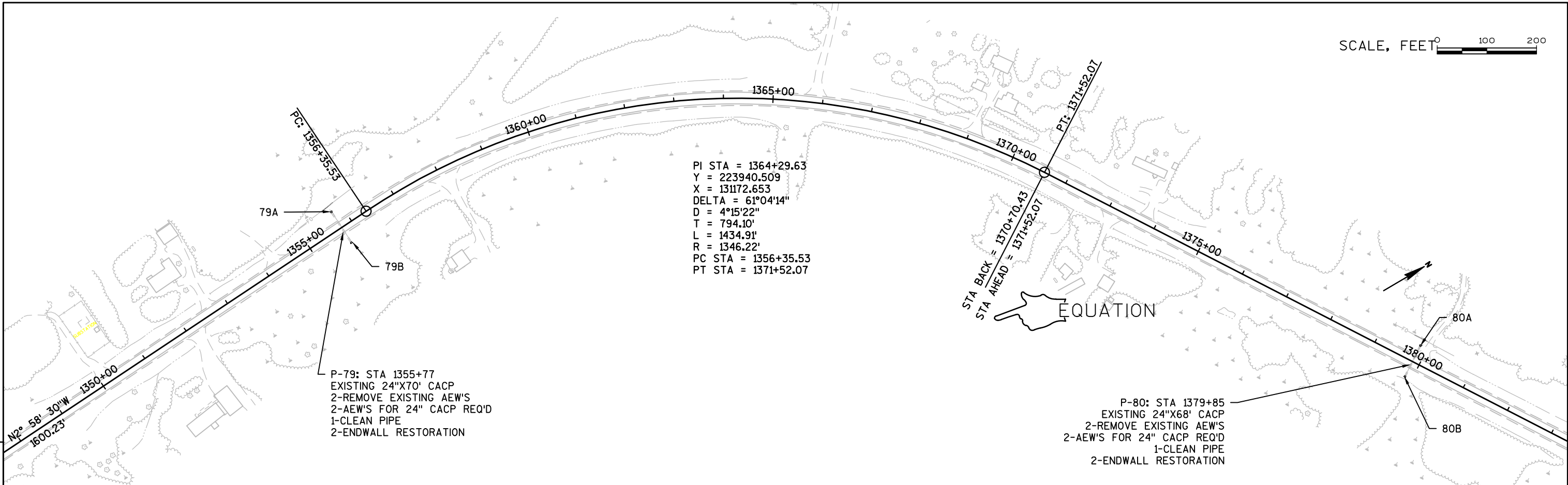
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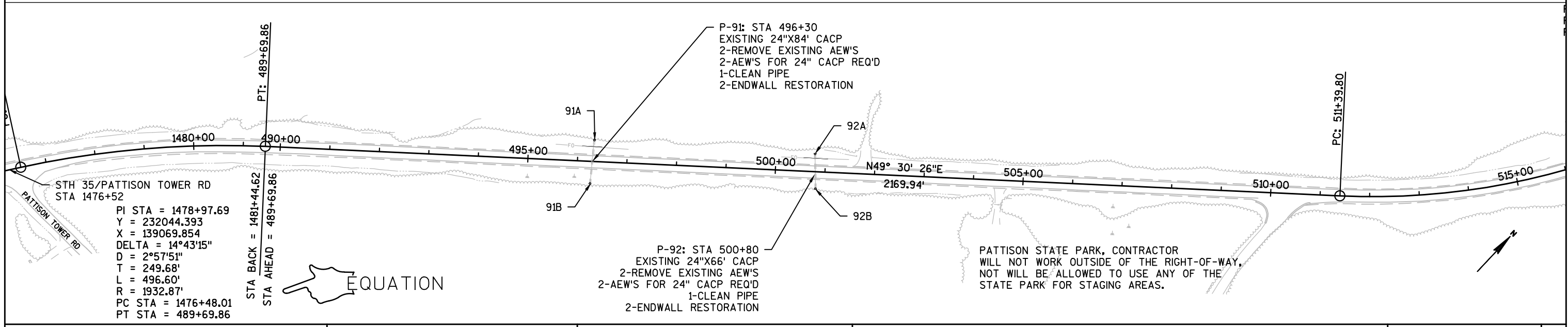
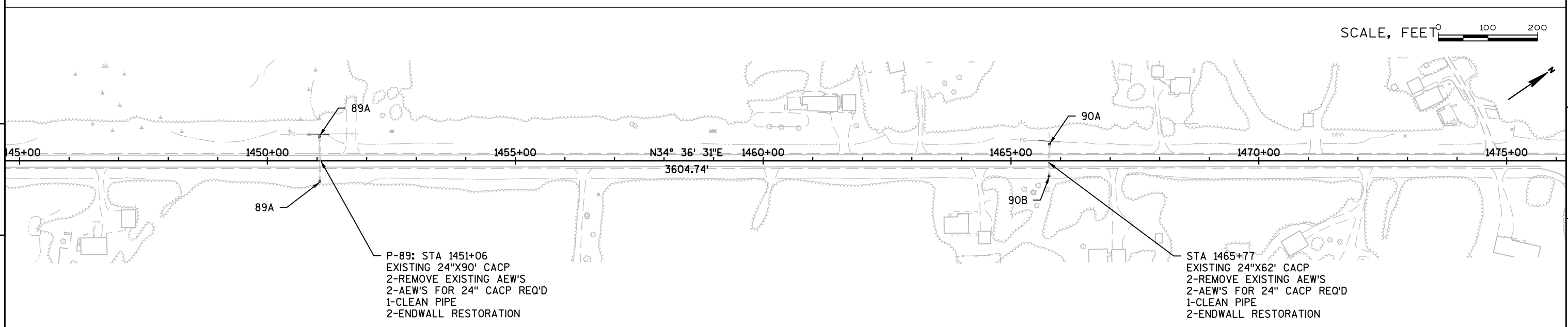
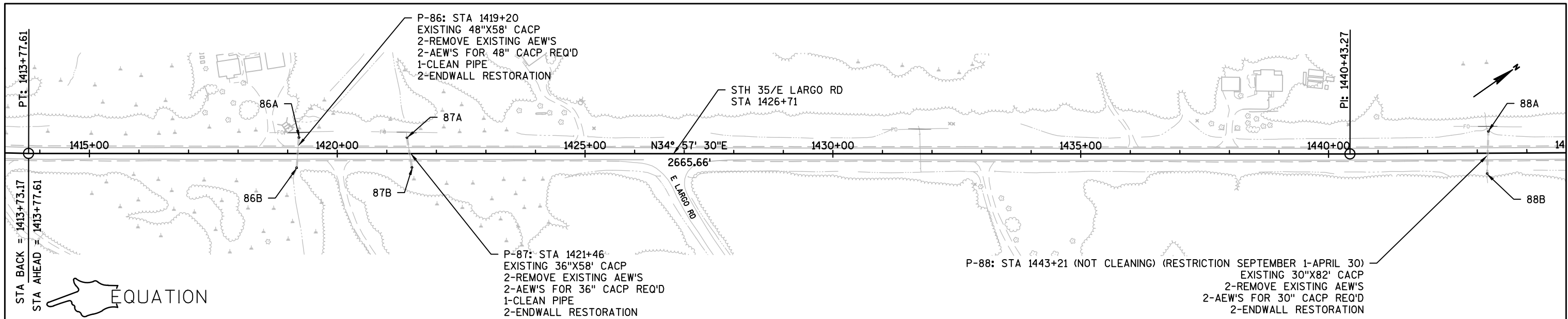
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PROJECT NO: 8010-01-63	HWY: STH 35	COUNTY: DOUGLAS	PLAN	SHEET	-----E
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PROJECT NO: 8010-01-63	HWY: STH 35	COUNTY: DOUGLAS	PLAN	SHEET	-----E
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PROJECT NO: 8010-01-63	HWY: STH 35	COUNTY: DOUGLAS	PLAN	SHEET	-----E
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PI STA = 517+96.46
Y = 234042.317
X = 141409.033
DELTA = 49°24'45"
D = 4°00'52"
T = 656.65'
L = 1230.88'
R = 1427.26'
PC STA = 511+39.80
PT STA = 539+77.01

PI STA = 551+45.69
Y = 235867.633
X = 141415.505
DELTA = 36°25'09"
D = 4°04'01"
T = 463.46'
L = 895.49'
R = 1408.81'
PC STA = 546+82.23
PT STA = 539+94.36

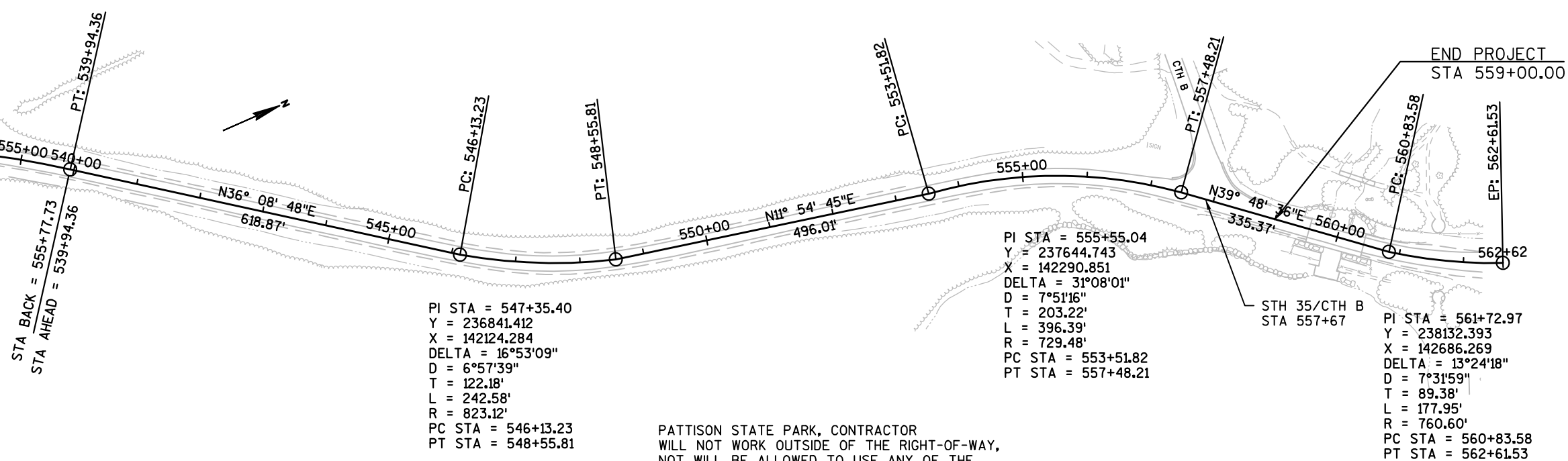
PI STA = 547+35.40
Y = 236841.412
X = 142124.284
DELTA = 16°53'09"
D = 6°57'39"
T = 122.18'
L = 242.58'
R = 823.12'
PC STA = 546+13.23
PT STA = 548+55.81

PATTISON STATE PARK, CONTRACTOR
WILL NOT WORK OUTSIDE OF THE RIGHT-OF-WAY,
NOT WILL BE ALLOWED TO USE ANY OF THE
STATE PARK FOR STAGING AREAS.

SCALE, FEET 0 100 200

5

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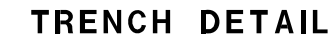


Standard Detail Drawing List

08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY



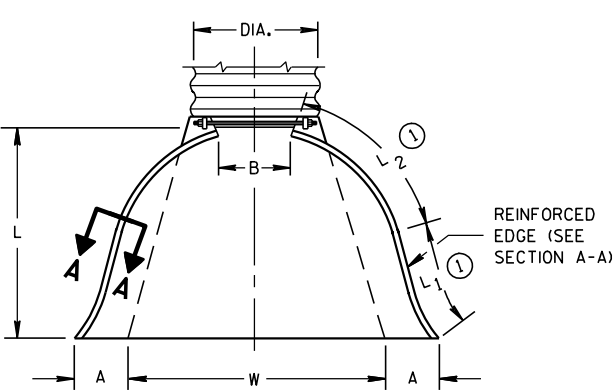
- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1½" X 1½" 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.



SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED <u>4-29-05</u> DATE	<u>/S/ Beth Cannestra</u> CHIEF ROADWAY DEVELOPMENT ENGINEER

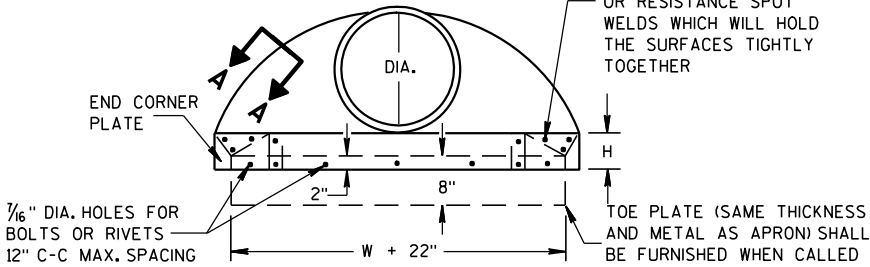
METAL APRON ENDWALLS												
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY	
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L ₁ ①	L ₂ ①	W (±2")			
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.	
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.	
18	.064	.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	.109x	.105x	18	33	12	87	—	—	114	2 to 1	3 Pc.	
66	.109x	.105x	18	36	12	87	—	—	120	2 to 1	3 Pc.	
72	.109x	.105x	18	39	12	87	—	—	126	2 to 1	3 Pc.	
78	.109x	.105x	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.	
84	.109x	.105x	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.	
90	.109x	.105x	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.	
96	.109x	.105x	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.	

* EXCEPT CENTER PANEL
SEE GENERAL NOTES



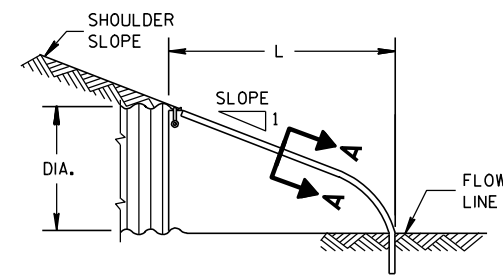
PLAN VIEW

END CORNER PLATES MAY
BE FASTENED TO APRON
PROPER BY BOLTS, RIVETS,
OR RESISTANCE SPOT
WELDS WHICH WILL HOLD
THE SURFACES TIGHTLY
TOGETHER



END VIEW

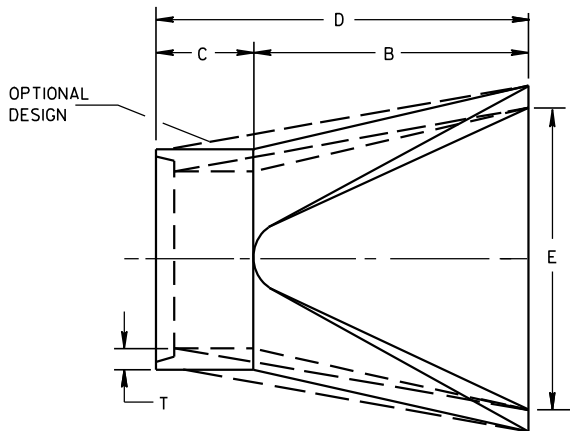
TOE PLATE (SAME THICKNESS
AND METAL AS APRON) SHALL
BE FURNISHED WHEN CALLED
FOR ON THE PLANS



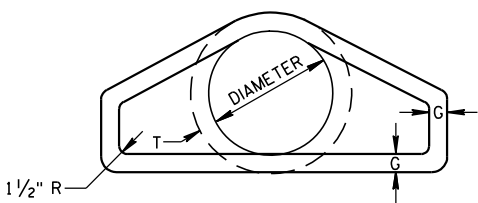
SIDE ELEVATION
METAL ENDWALLS

REINFORCED CONCRETE APRON ENDWALLS								
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48 ⁷ / ₈	72 ⁷ / ₈	24	2	3 to 1
15	2 ¹ / ₄	6	27	46	73	30	2 ¹ / ₄	3 to 1
18	2 ² / ₂	9	27	46	73	36	2 ² / 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 ⁵ / ₈ 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

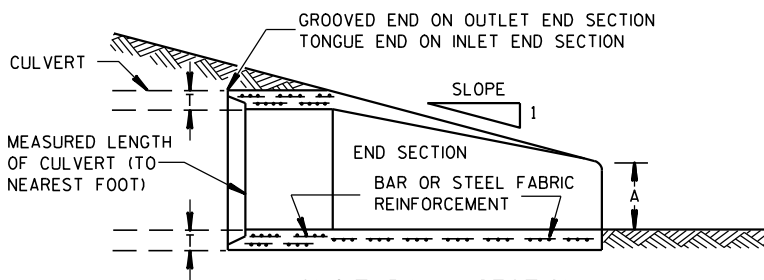
* MINIMUM
** MAXIMUM



PLAN

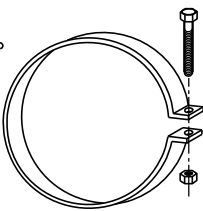


END VIEW

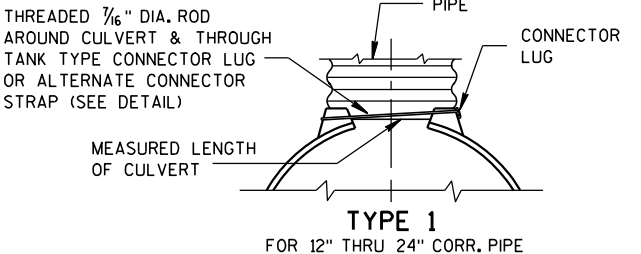


LONGITUDINAL SECTION
CONCRETE ENDWALLS

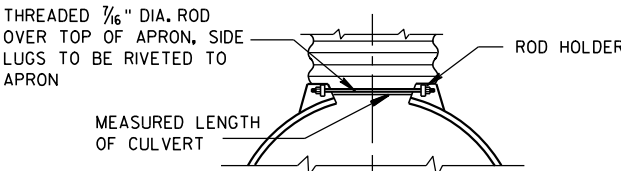
1" WIDE, 12 GA. (0.109"
THICK) GALVANIZED STRAP
WITH STANDARD 6" X 1/2"
BAND BOLT AND NUT



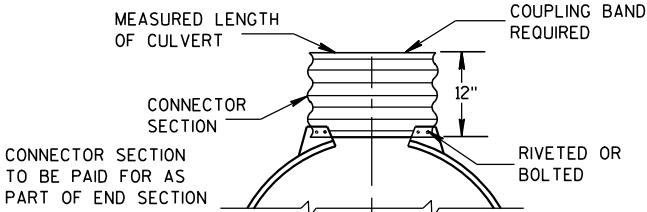
ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



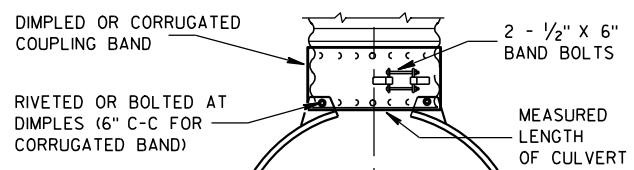
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

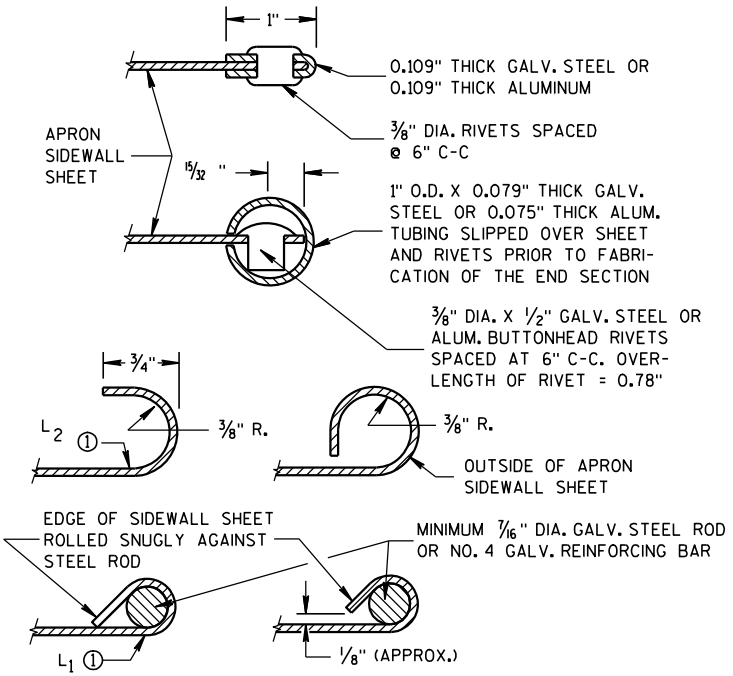
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL,
AND CORRUGATED BAND FITS INSIDE ENDWALL.
DIMPLED BAND MAY BE USED WITH HELICALLY
CORRUGATED PIPE.

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.

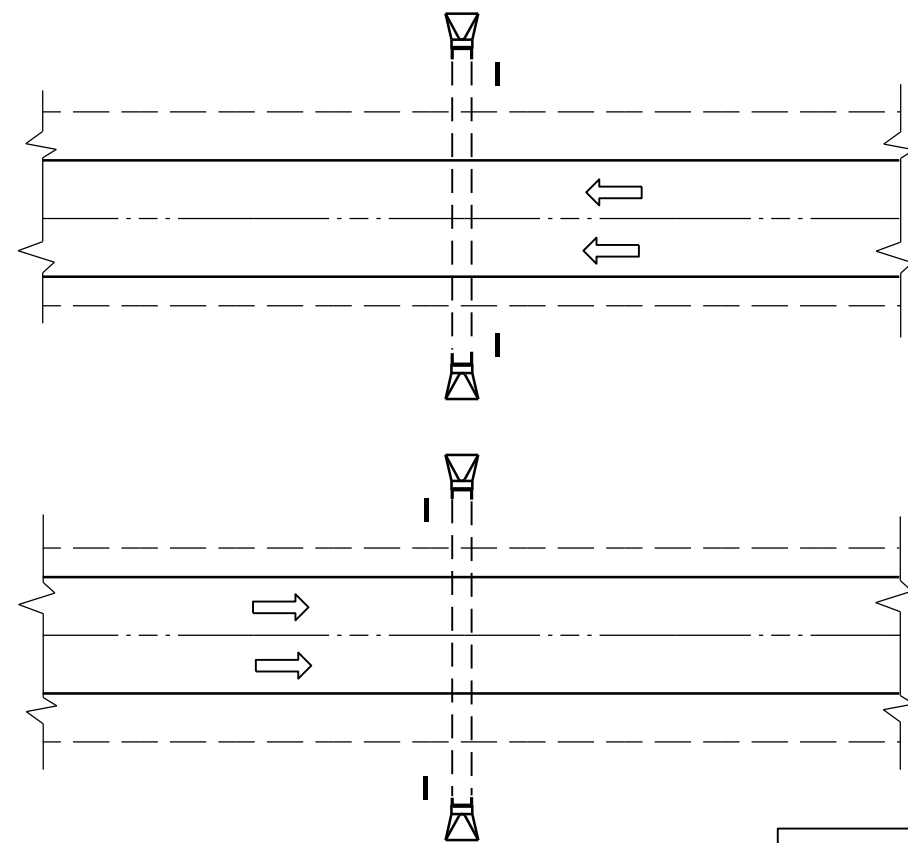
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT
TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT
TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

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

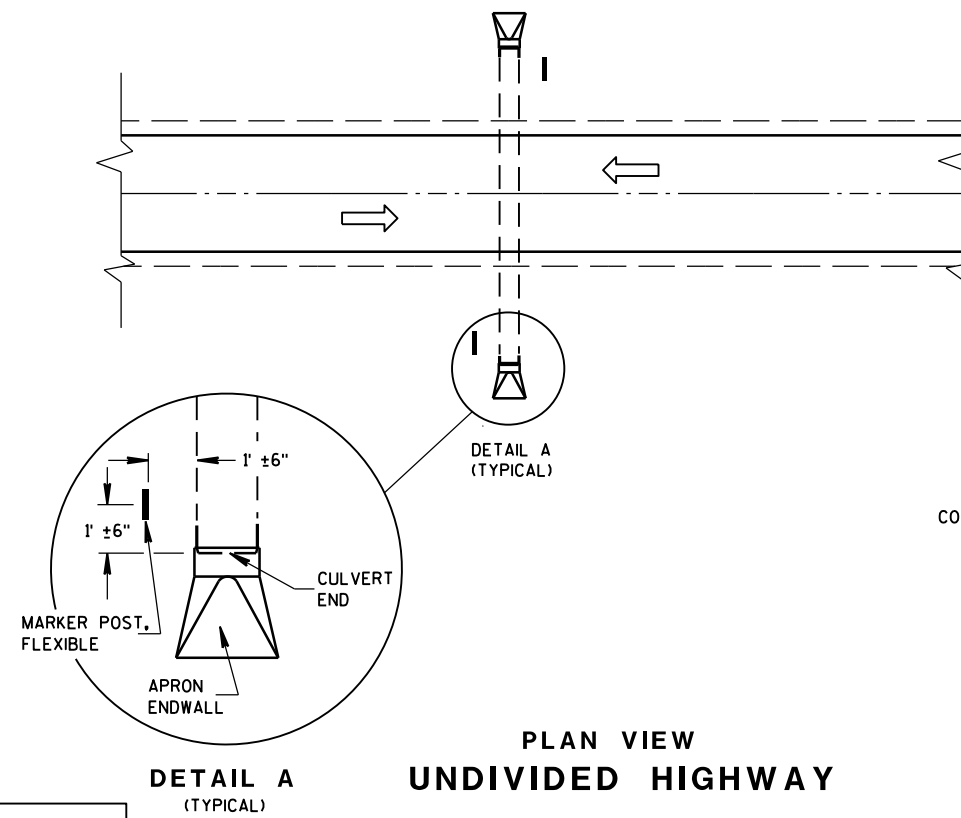
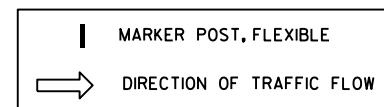
APRON ENDWALLS FOR
CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



PLAN VIEW
DIVIDED HIGHWAY

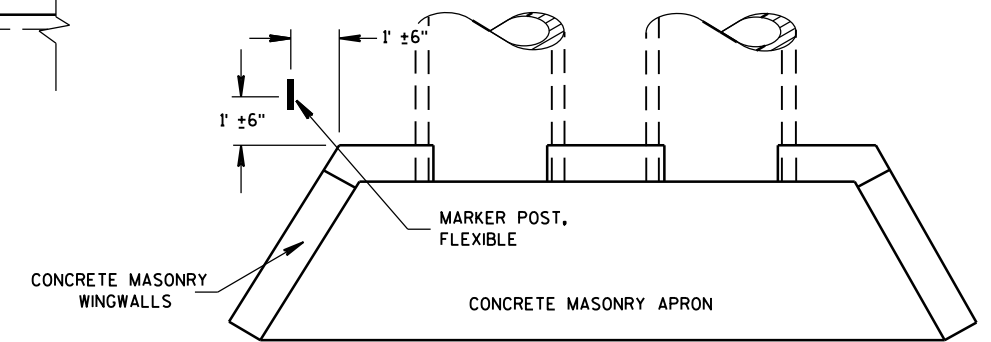


PLAN VIEW
UNDIVIDED HIGHWAY

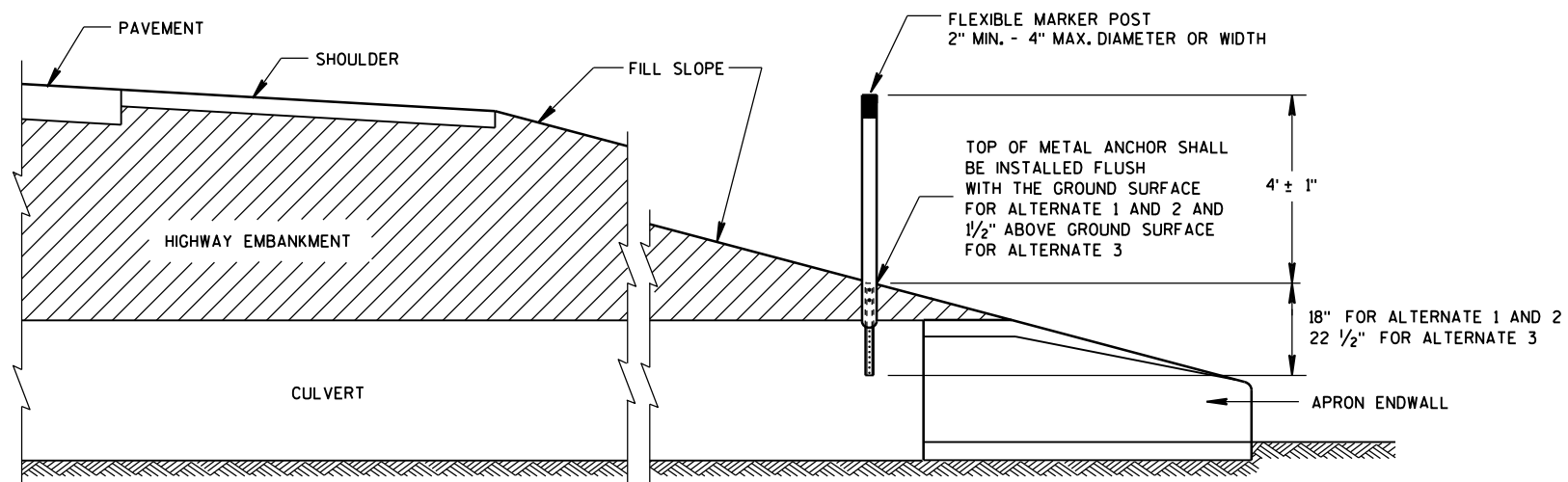
FLEXIBLE MARKER POST LOCATION

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.



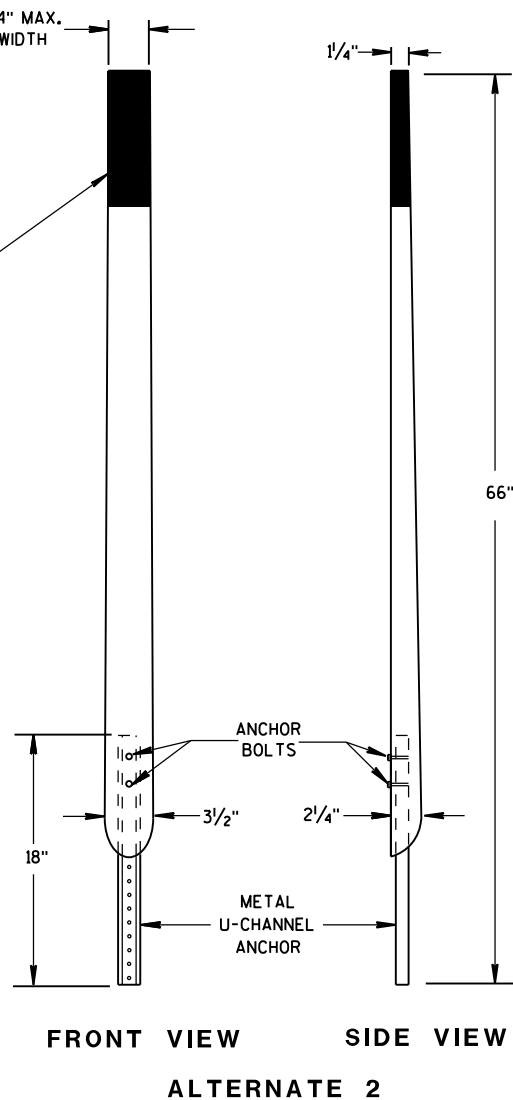
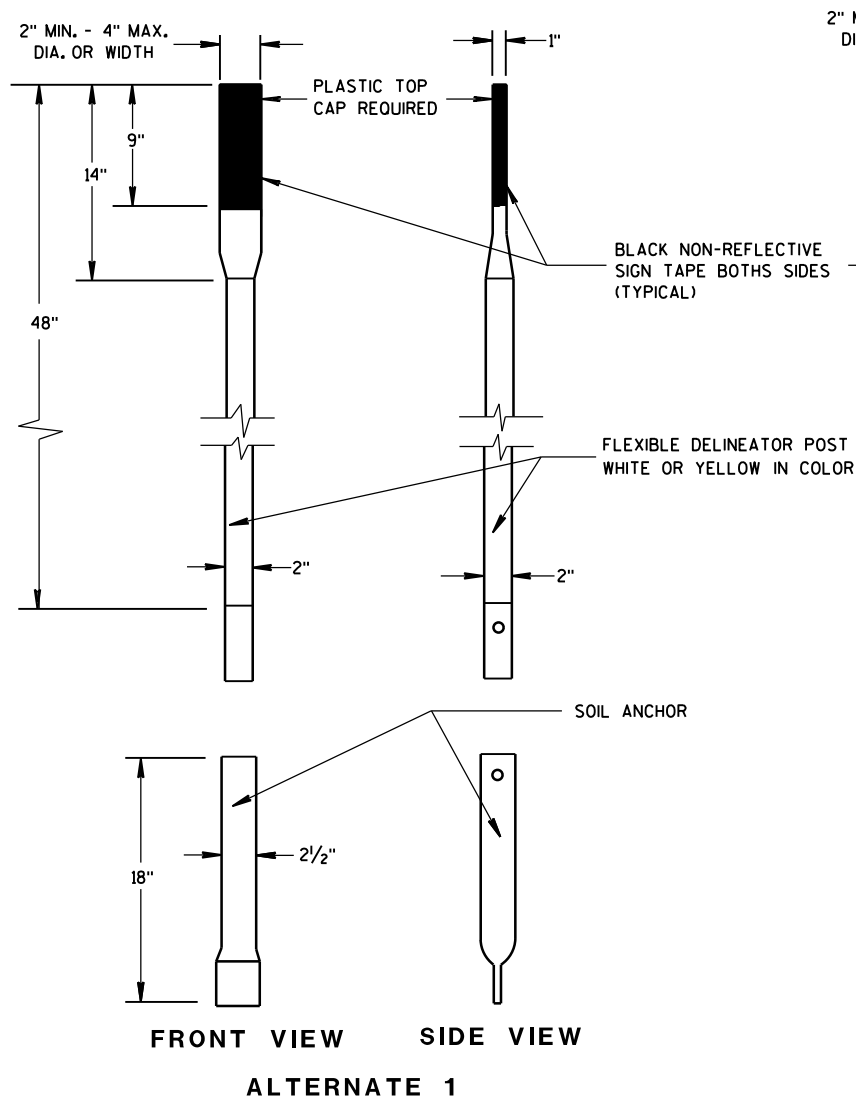
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



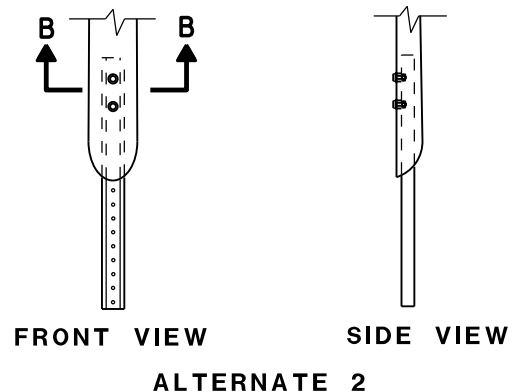
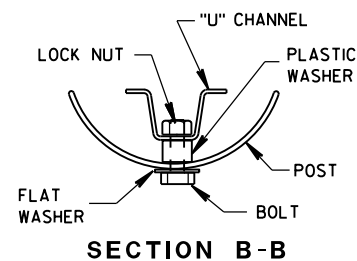
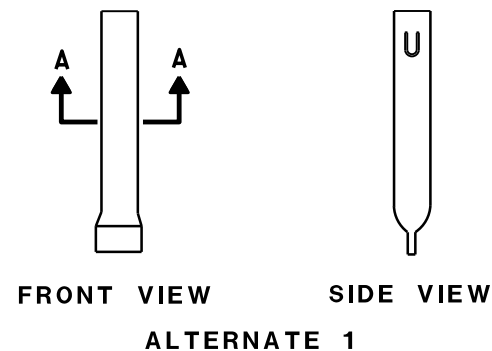
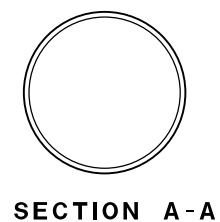
CROSS SECTION
FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

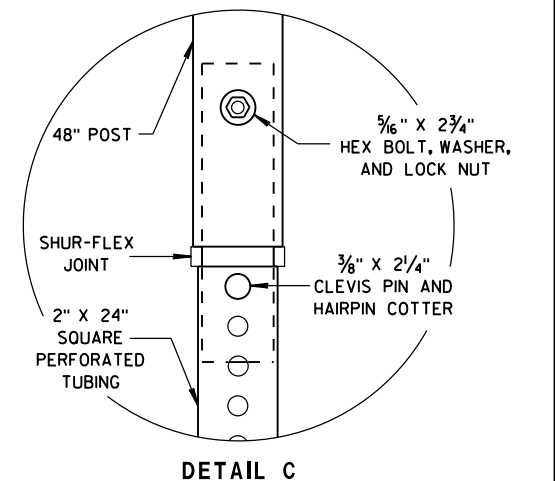
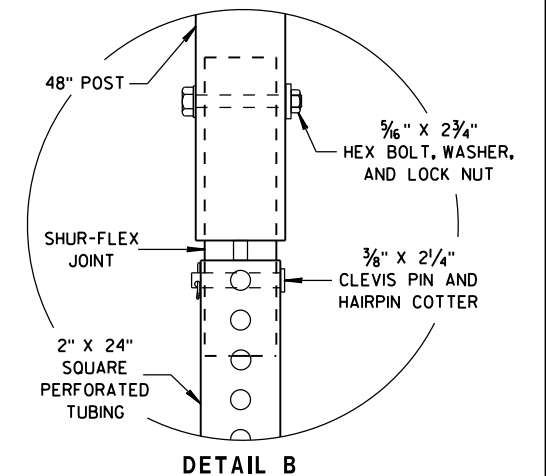
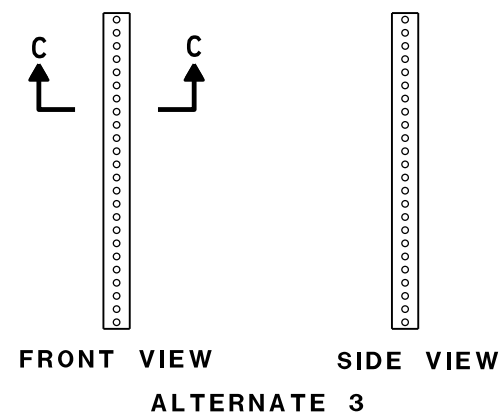
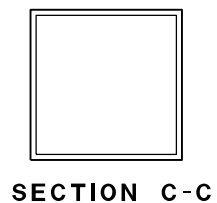
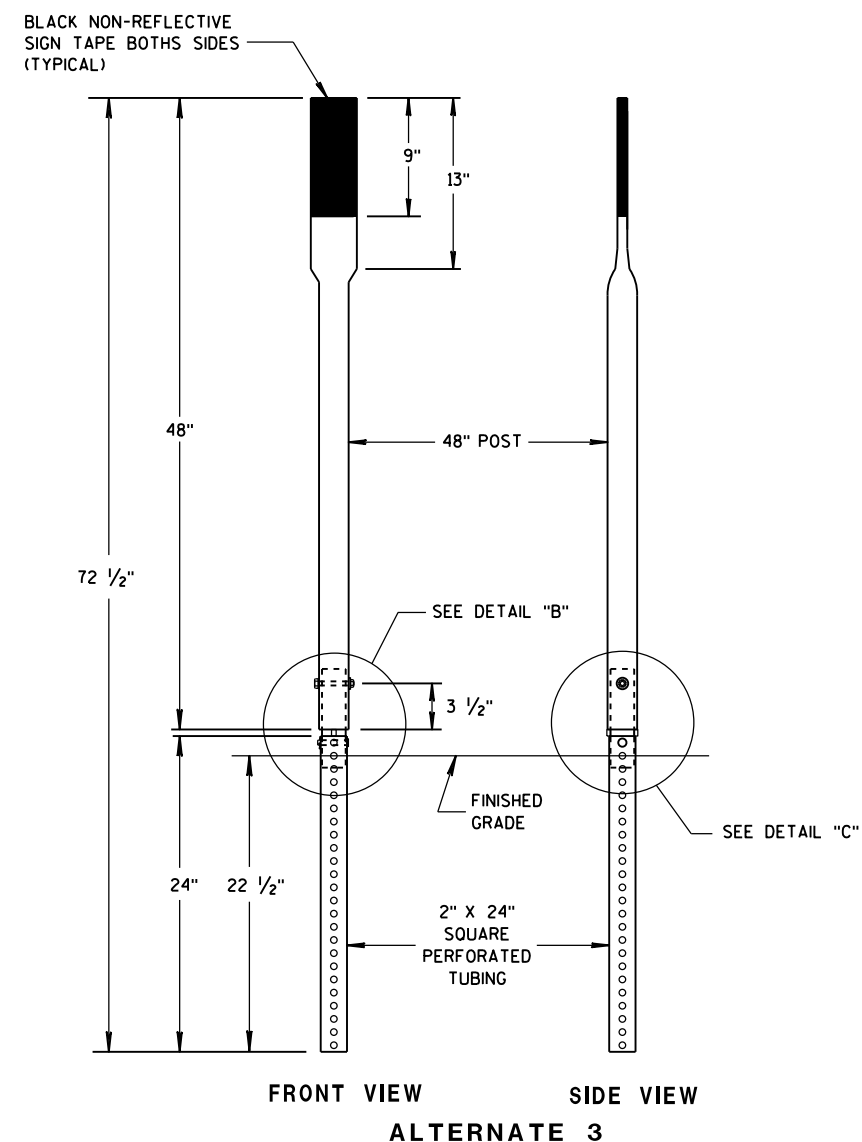
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



FLEXIBLE MARKER POSTS



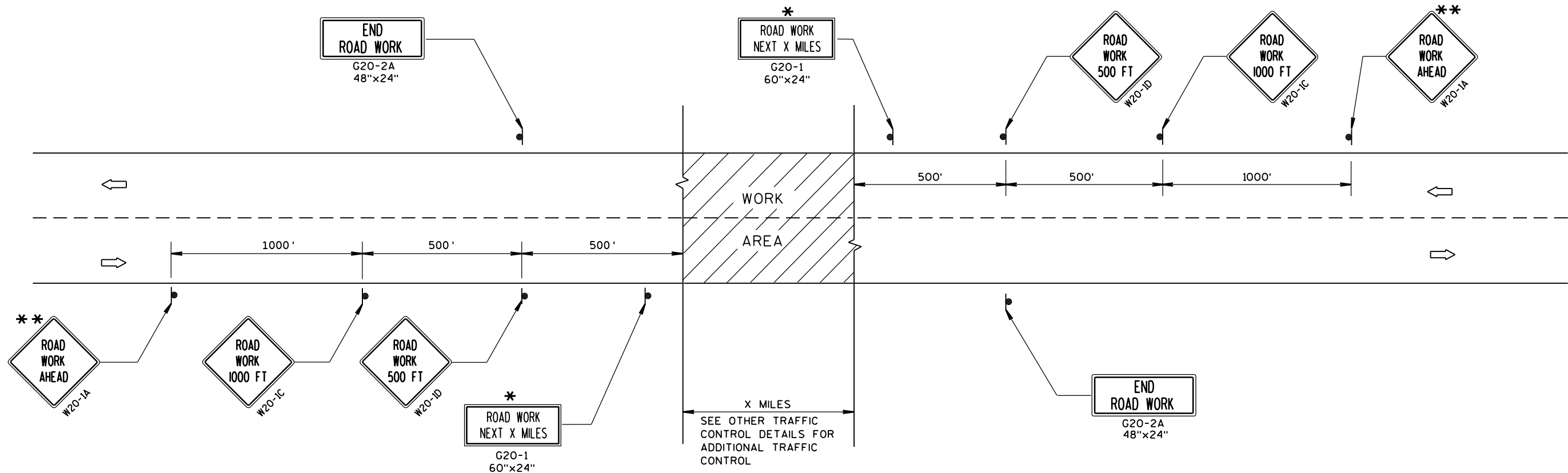
FLEXIBLE MARKER POST ANCHORS



FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

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

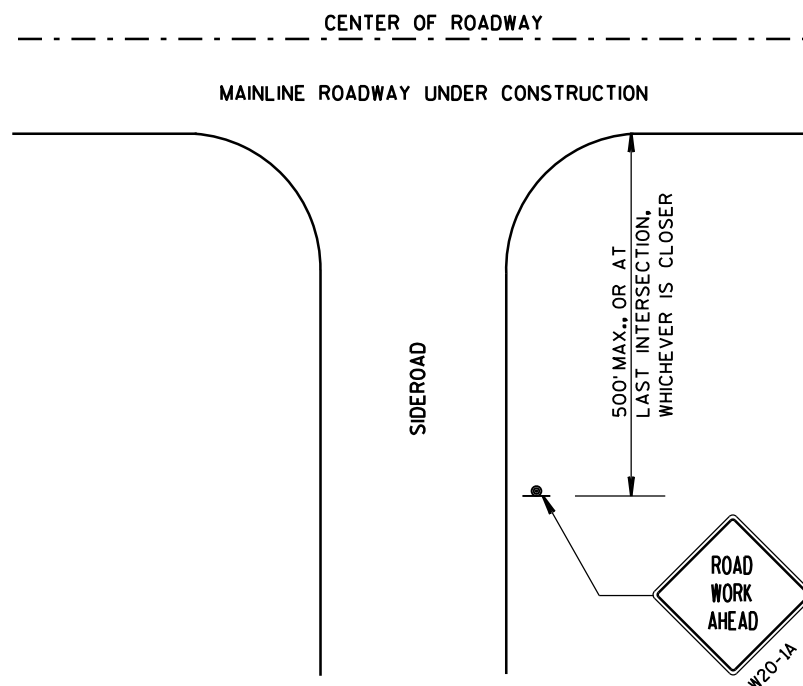
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

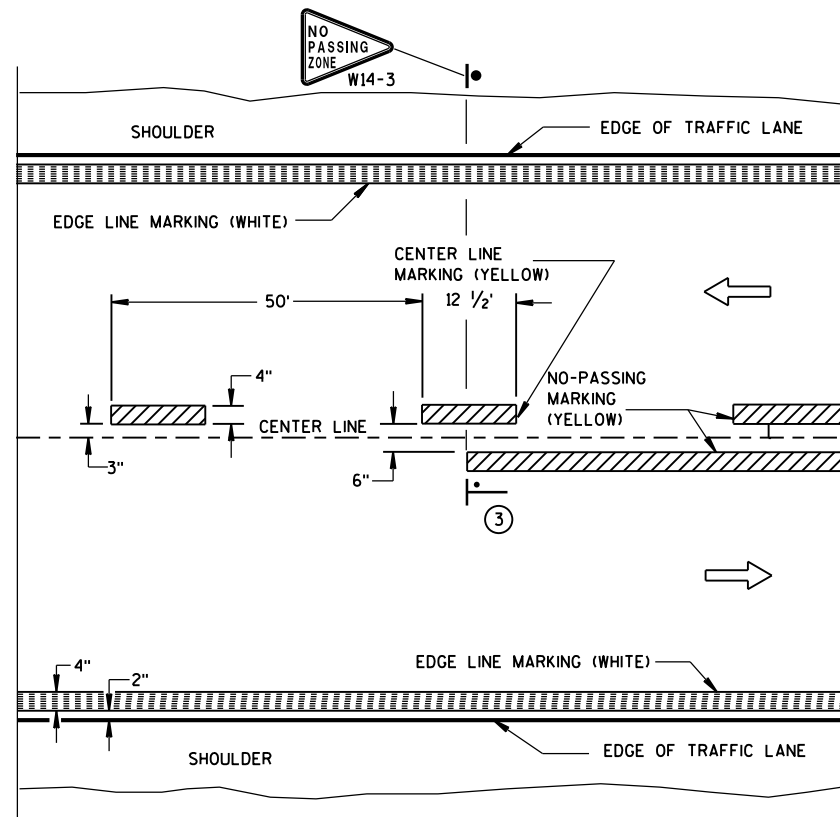
** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



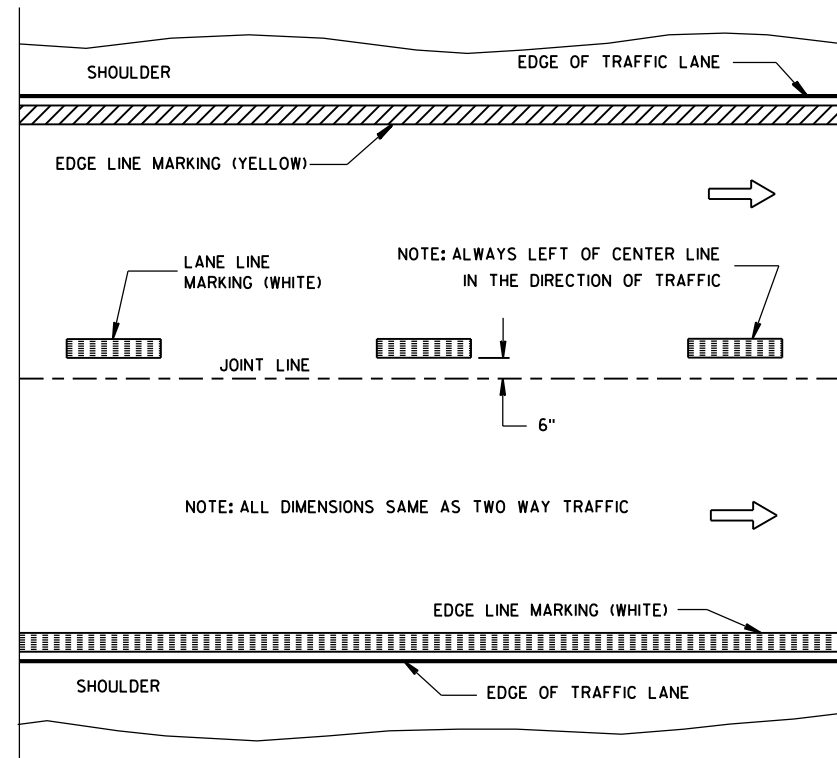
LEGEND

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

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE	/S/ Peter Amokobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	

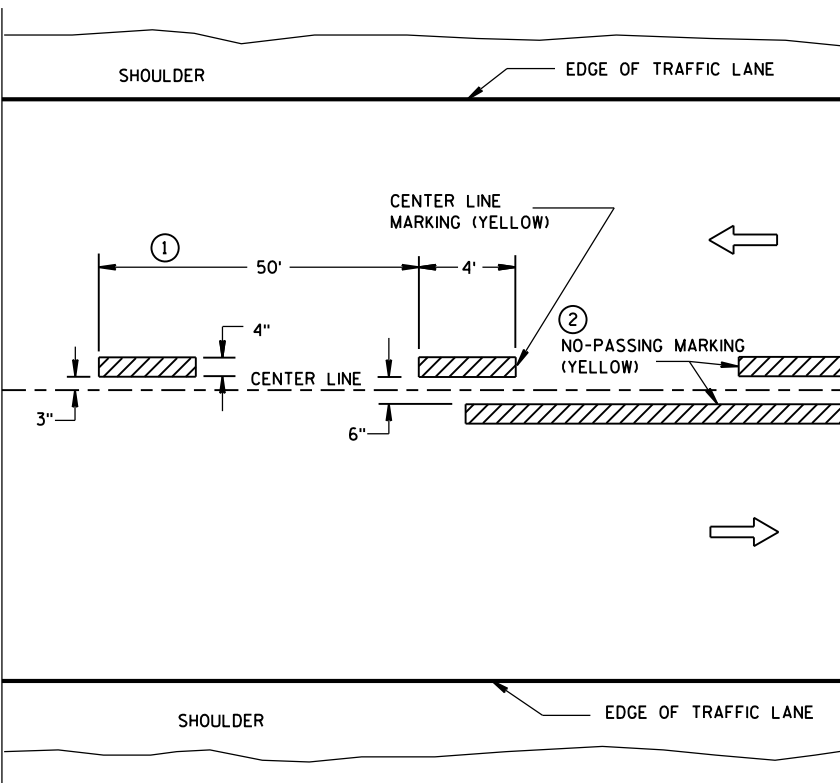


TWO WAY TRAFFIC

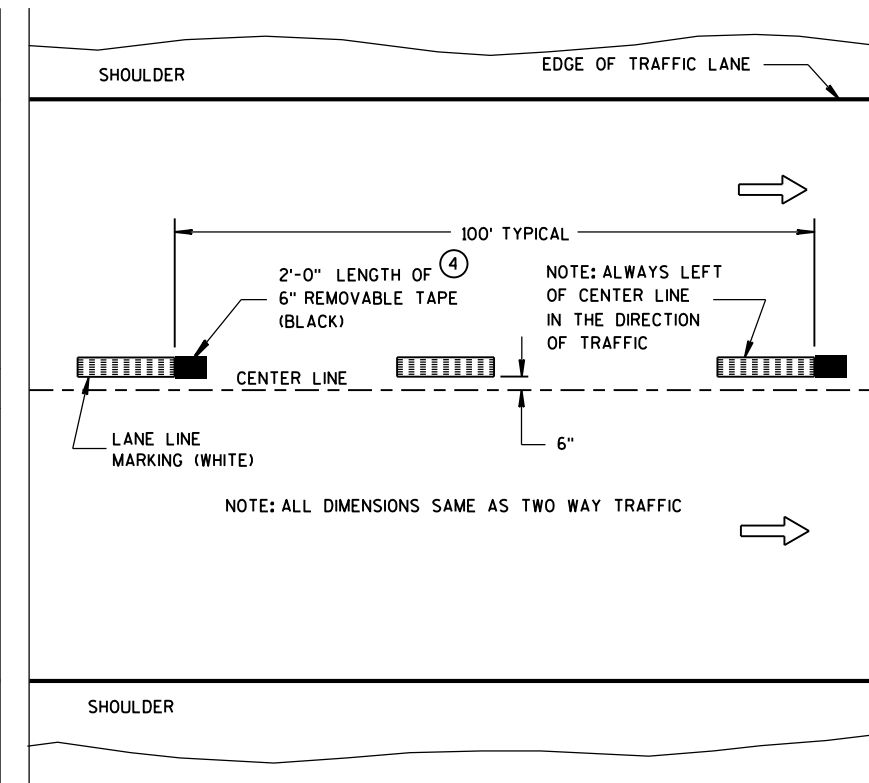


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

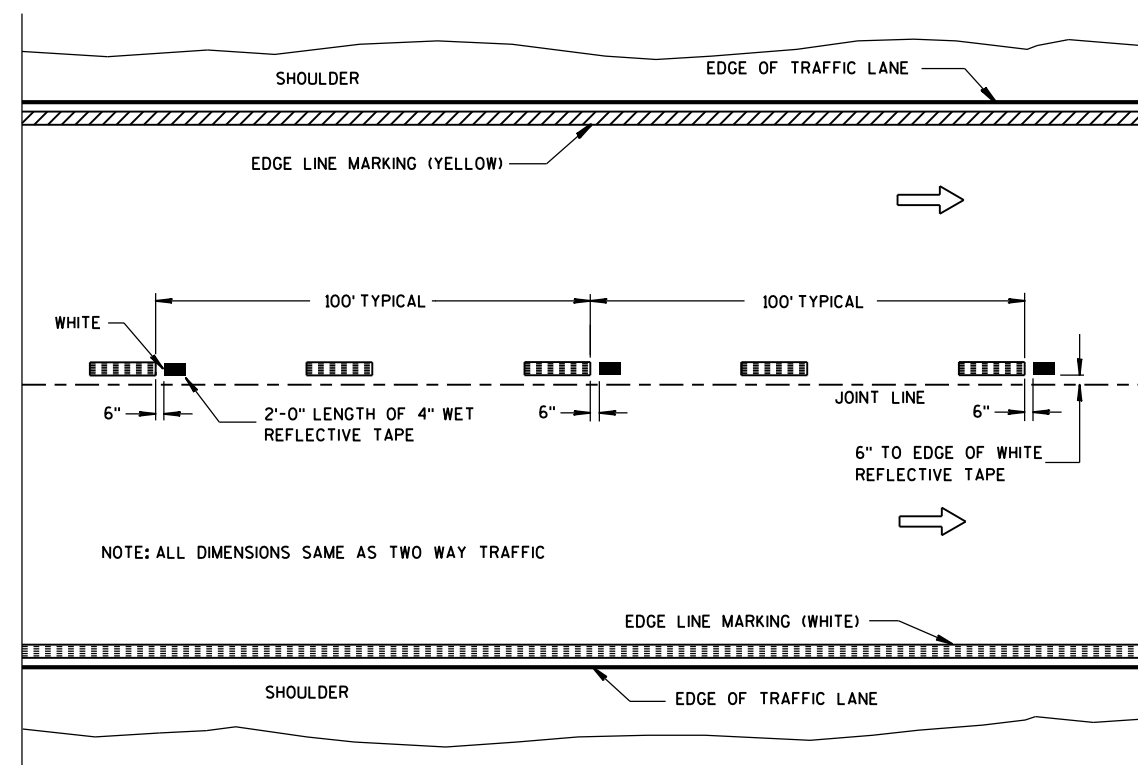
GENERAL NOTES

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

- ① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- ③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- ④ CONCRETE ONLY.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013
DATE
FHWA

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

LEGEND

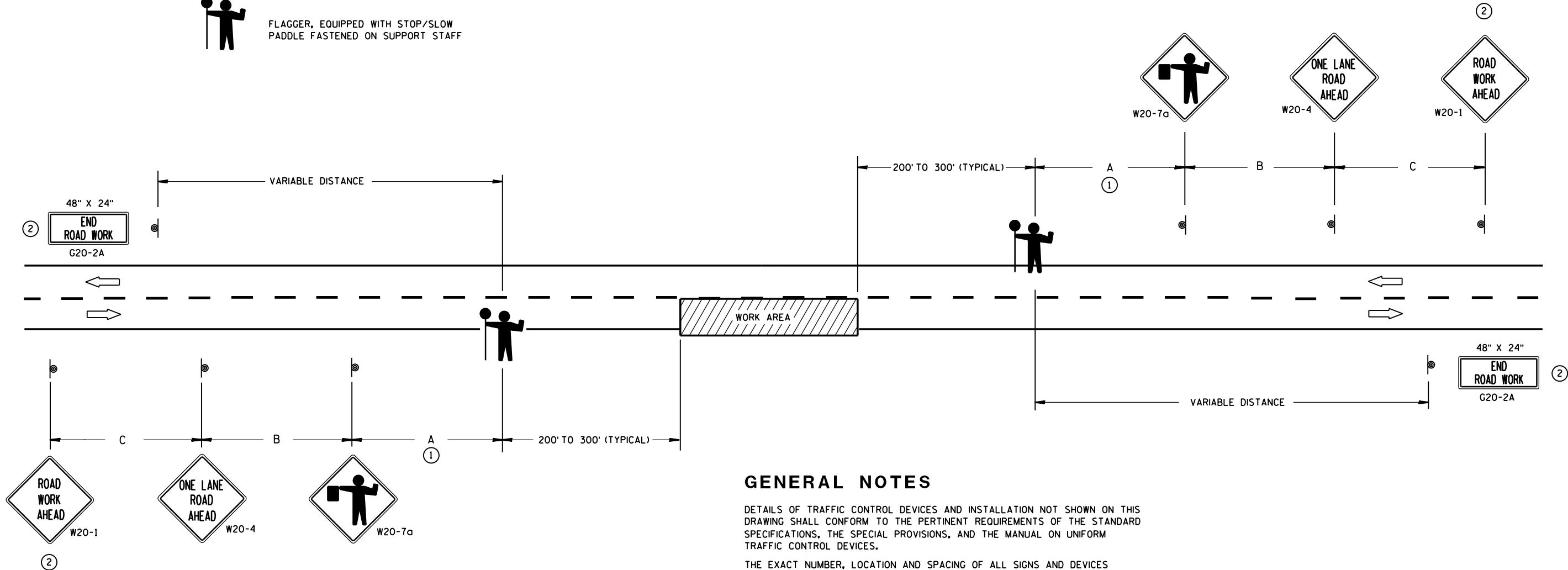
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

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



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



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

GENERAL NOTES

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

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

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

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

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

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

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

GENERAL NOTES

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

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

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

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

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

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

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

TABLE A

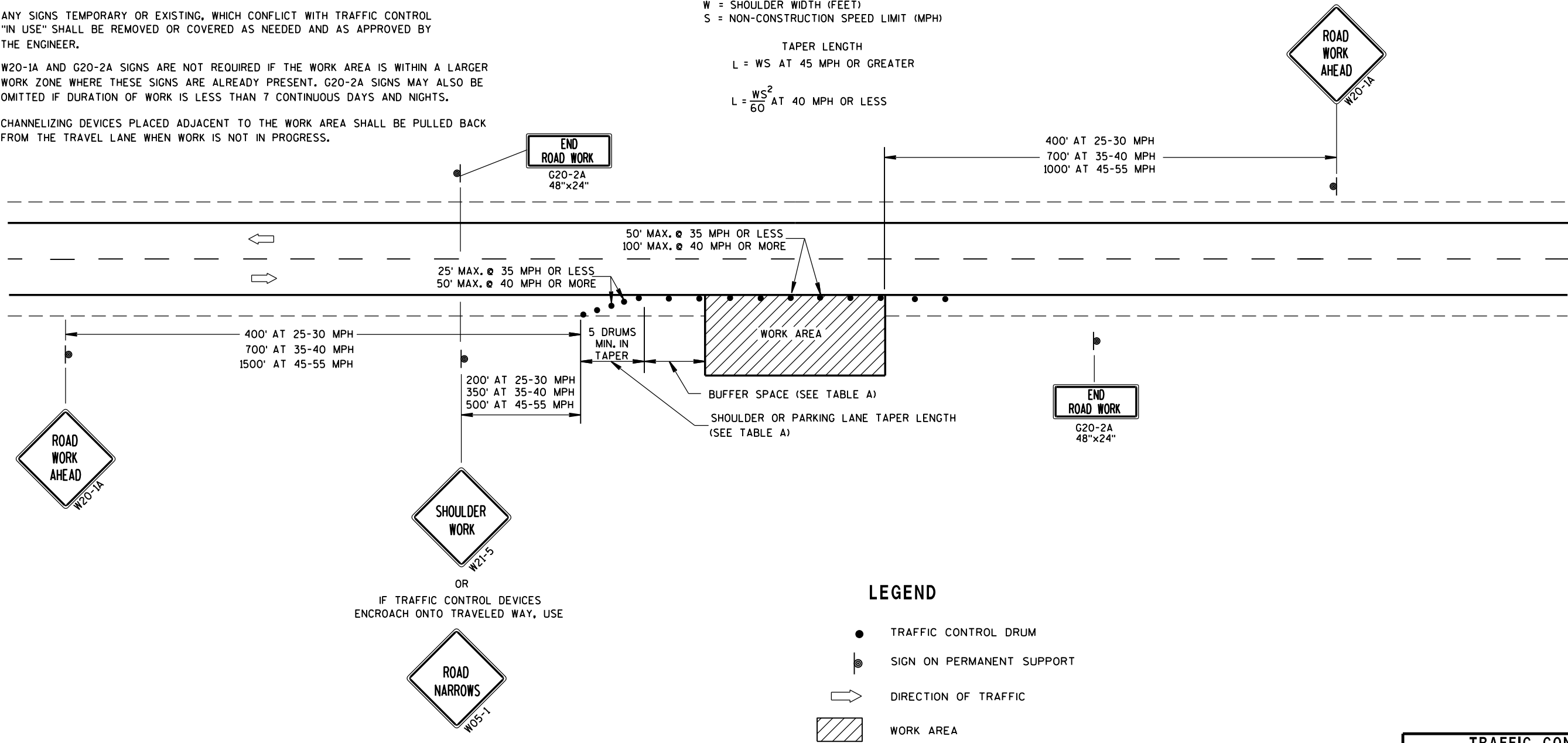
SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

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

TAPER LENGTH
L = WS AT 45 MPH OR GREATER

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

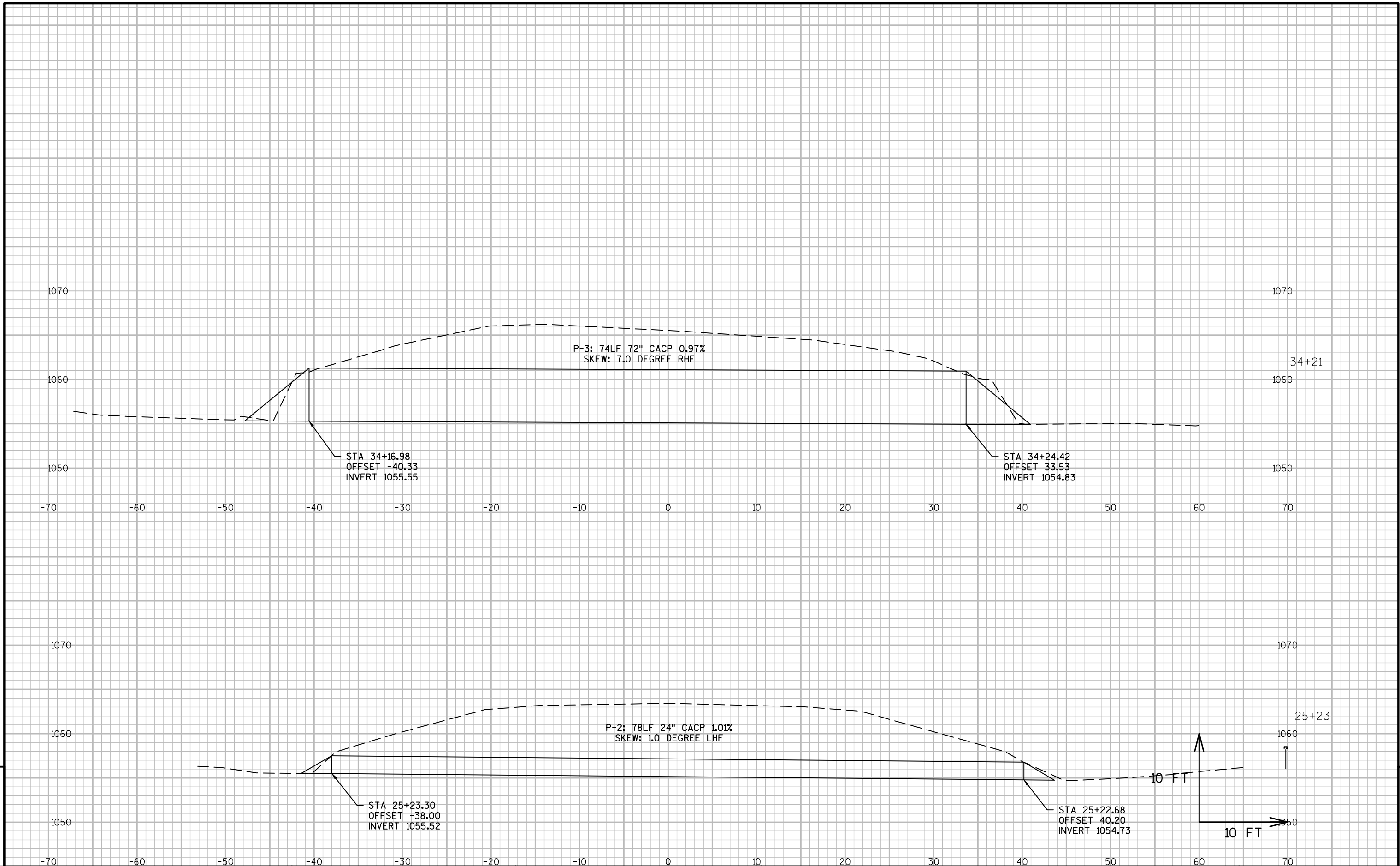
SHOULDER TAPER LENGTH = $\frac{1}{3}L$



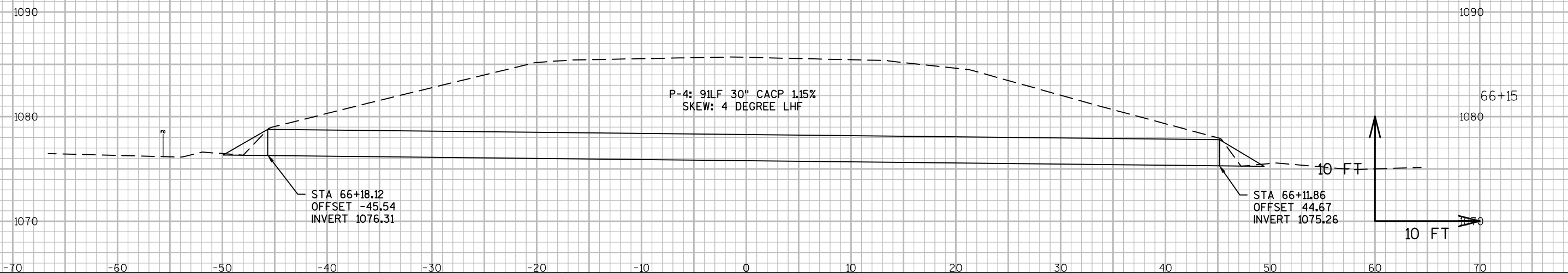
LEGEND

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

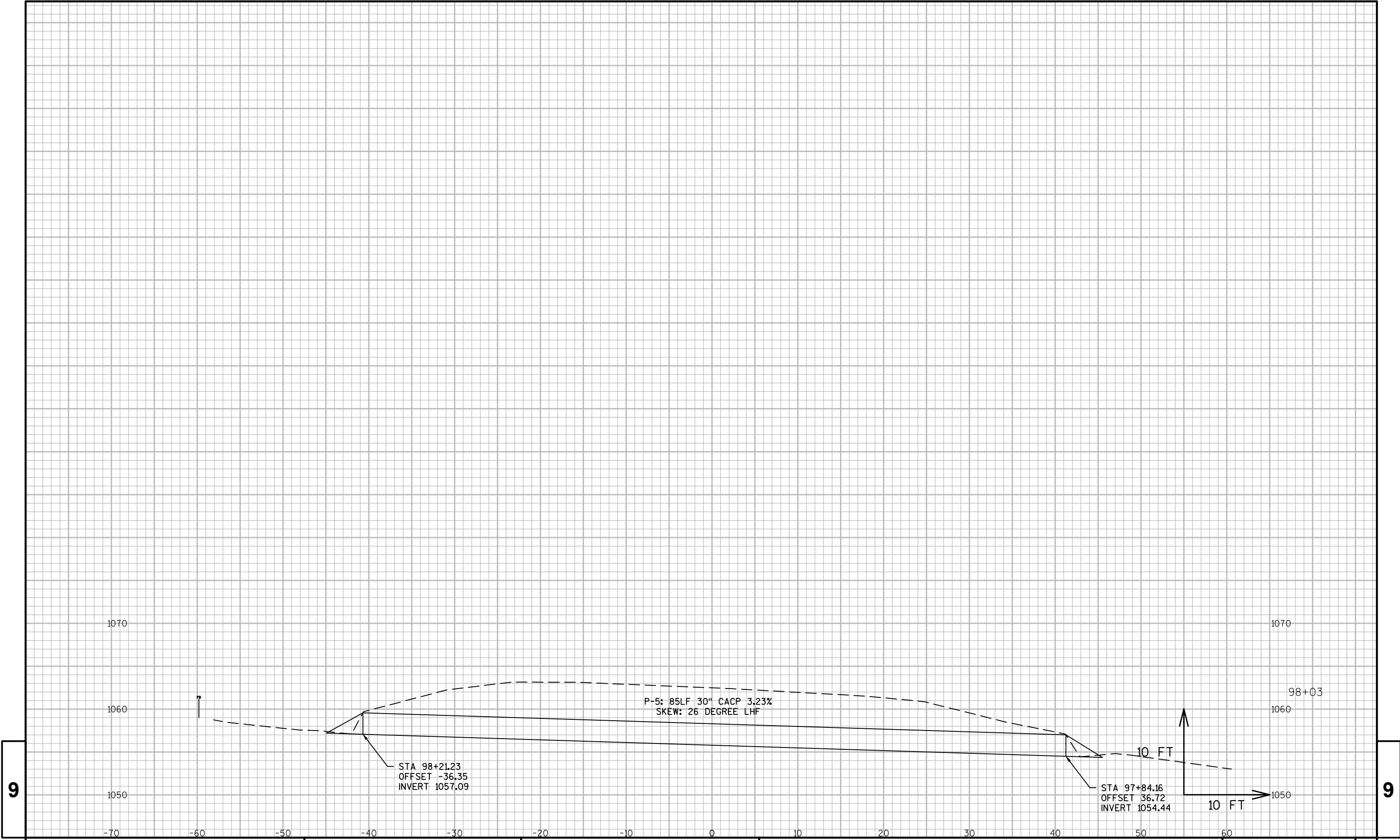
TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED July 14, 2015 DATE	/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	

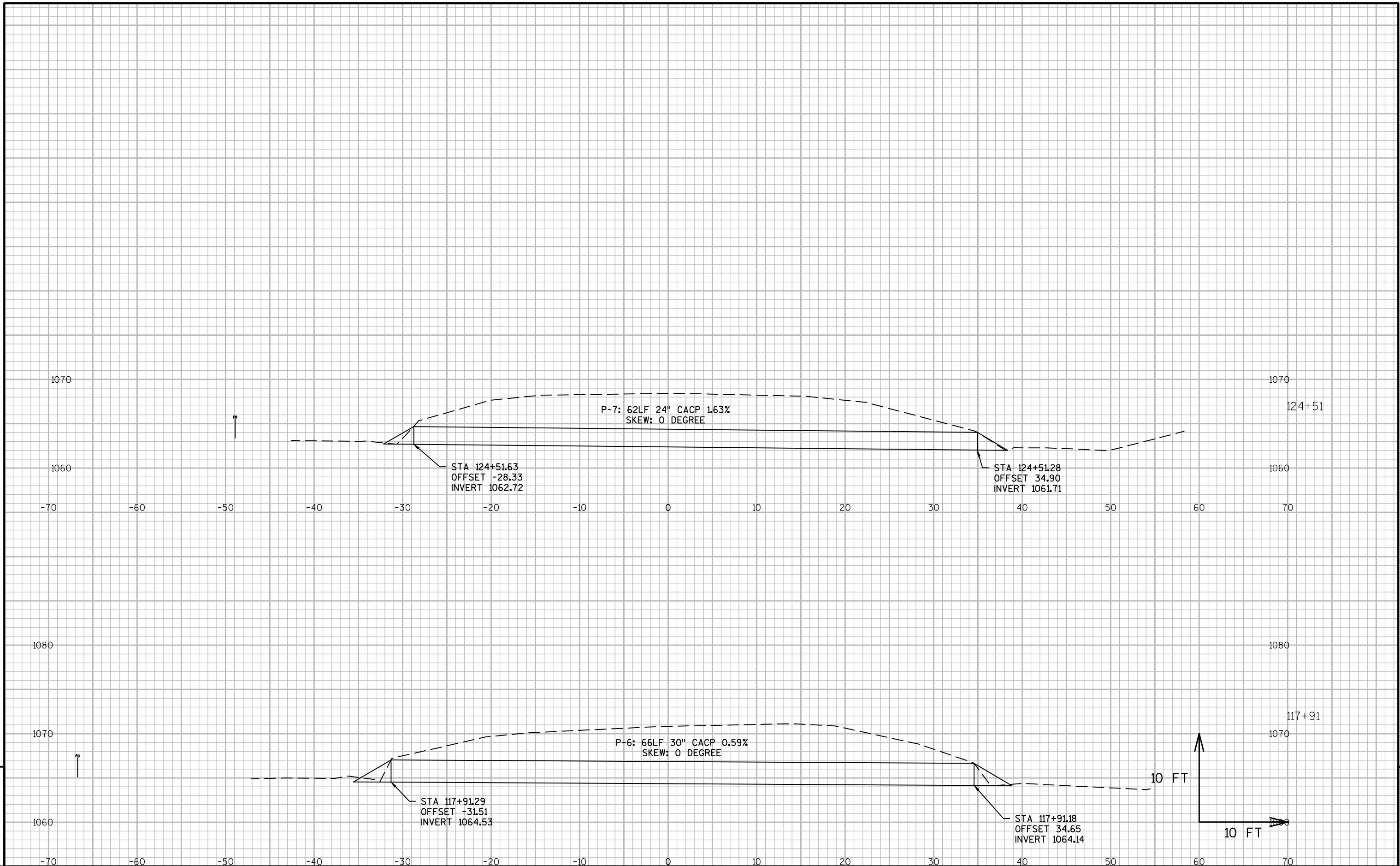


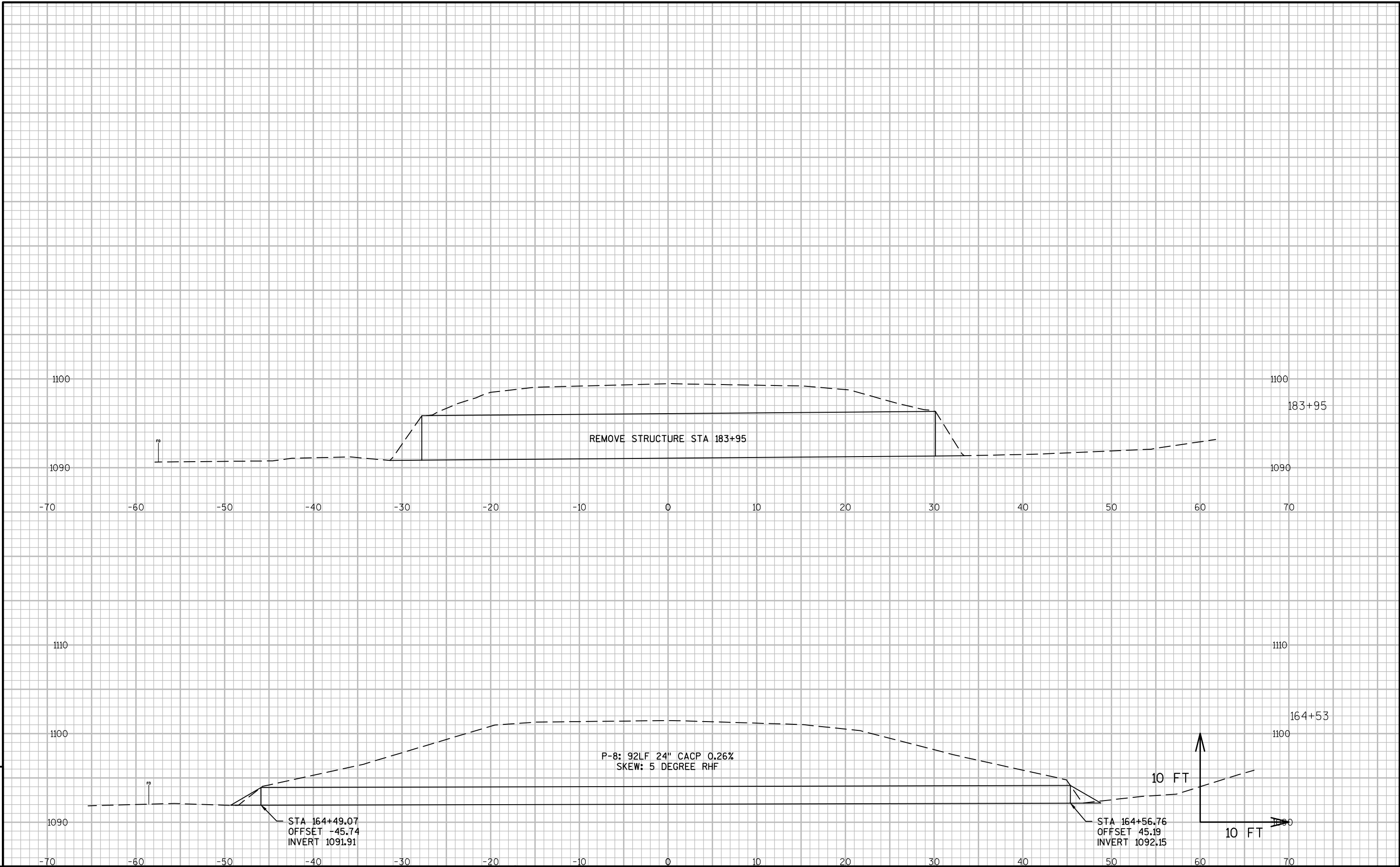
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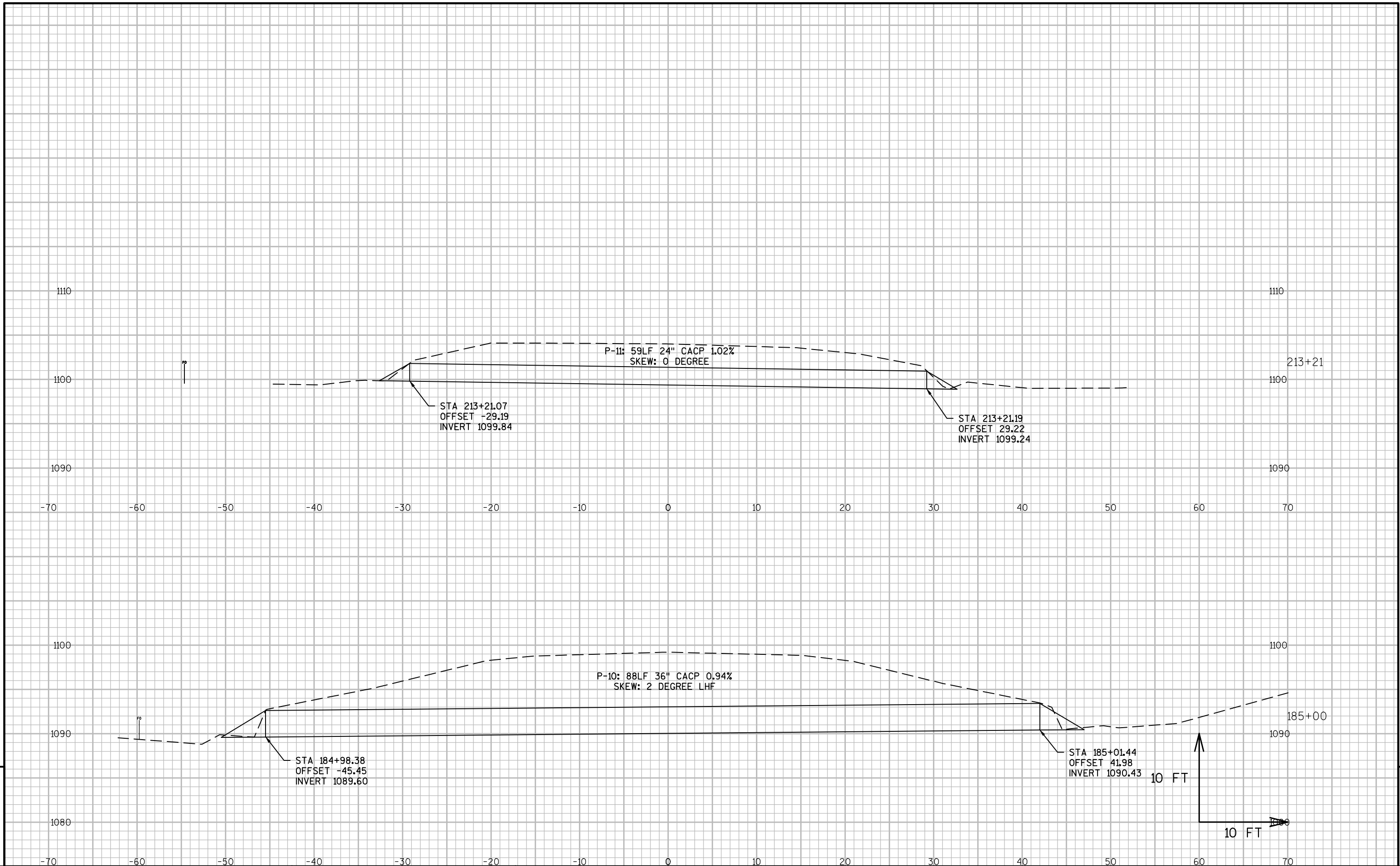


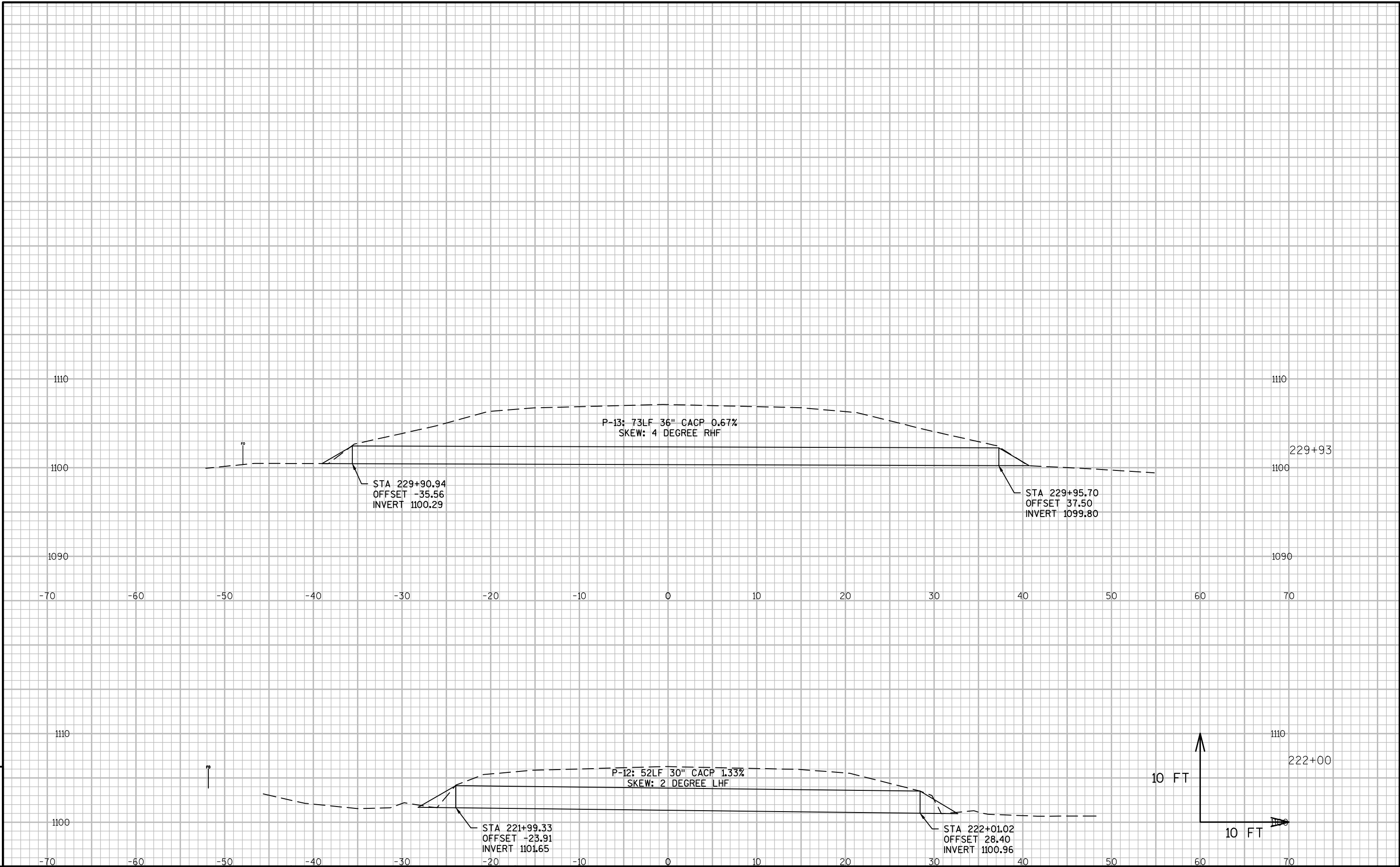
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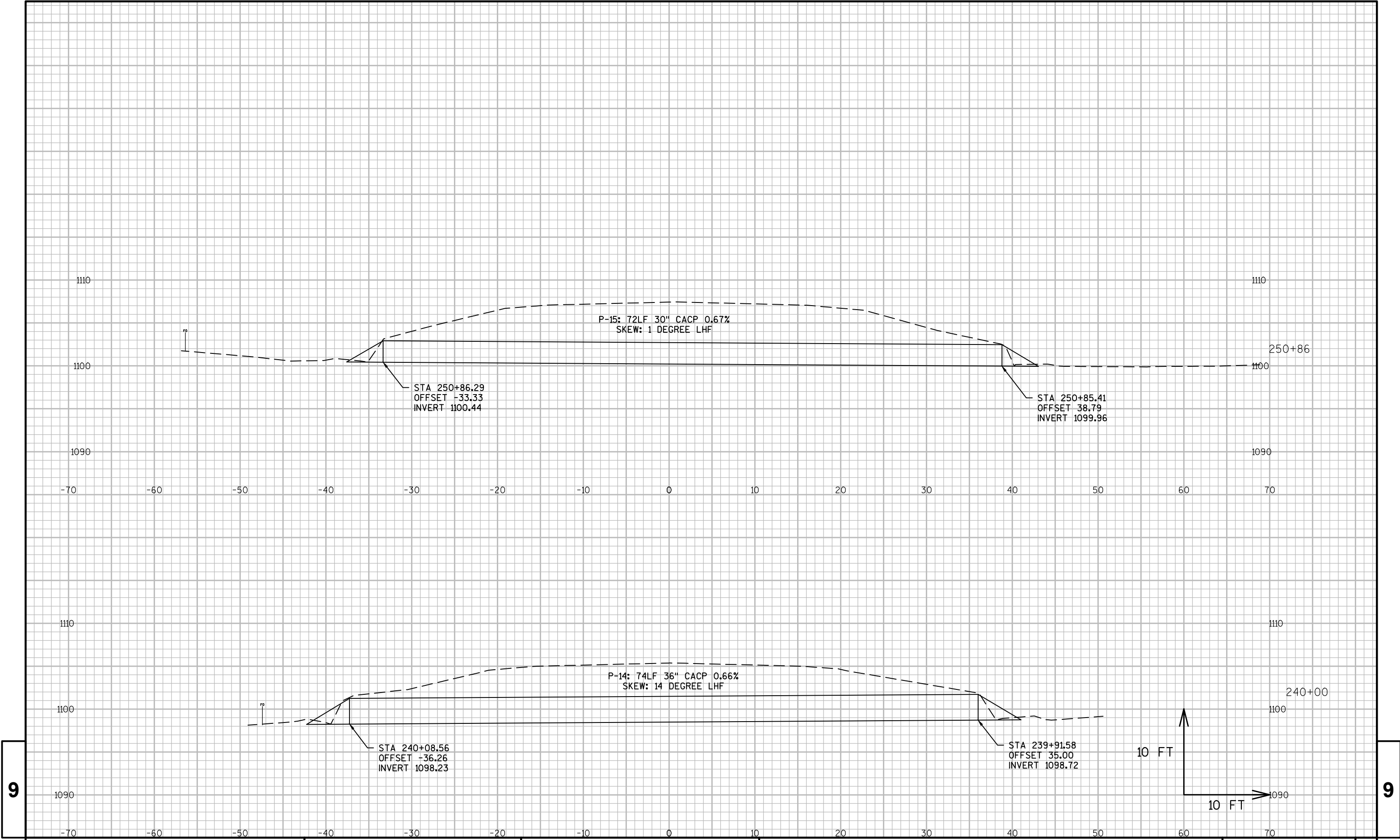






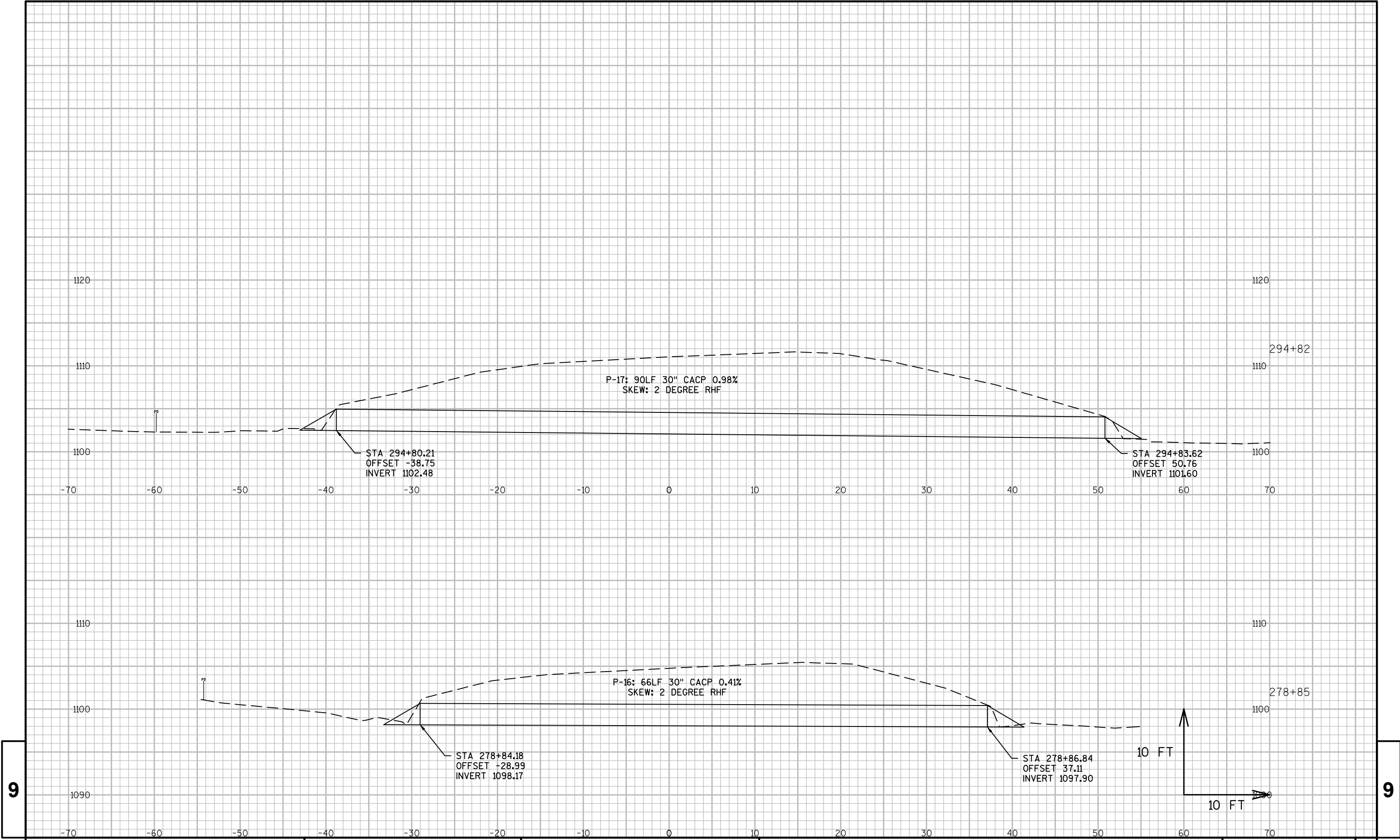






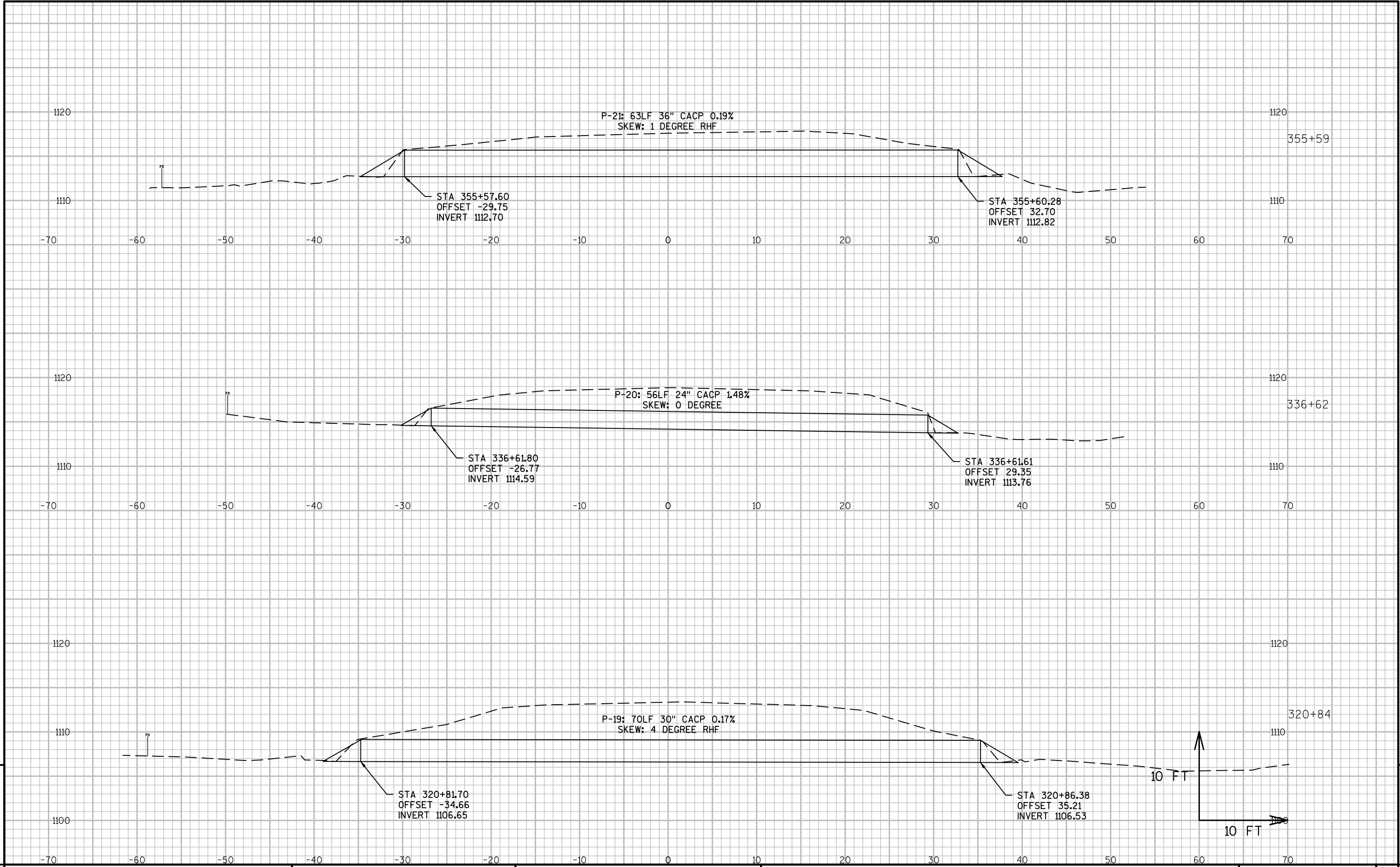
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9



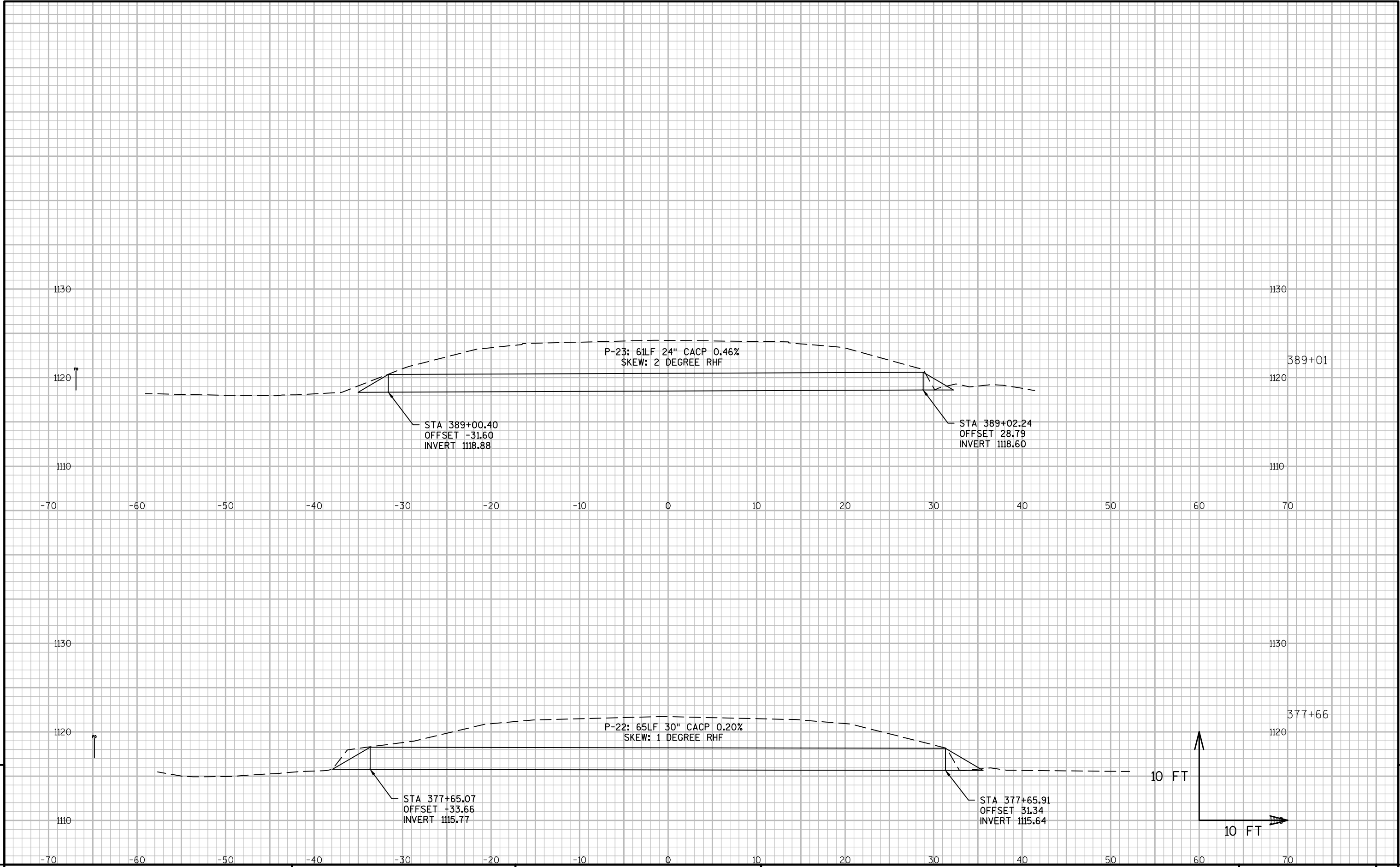
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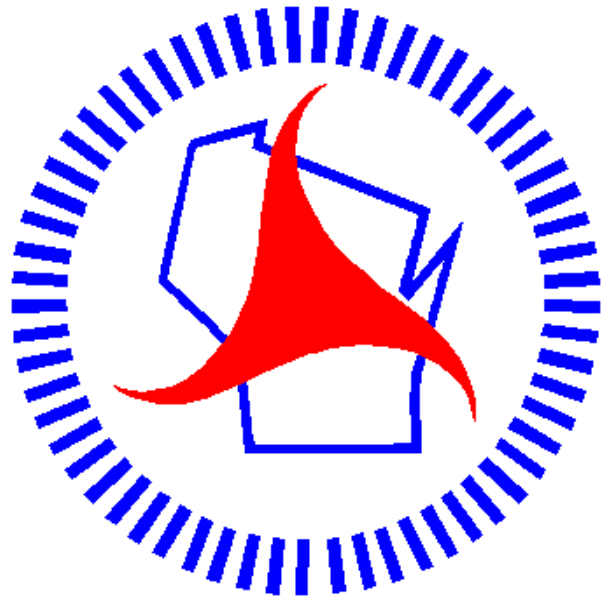
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