PROJECT ID: 6663-01-70
WITH: N/A

COUNTY: MARATHON

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 (Includes Erosion Control)
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 = ___

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6663-01-70		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STH 107 - USH 51

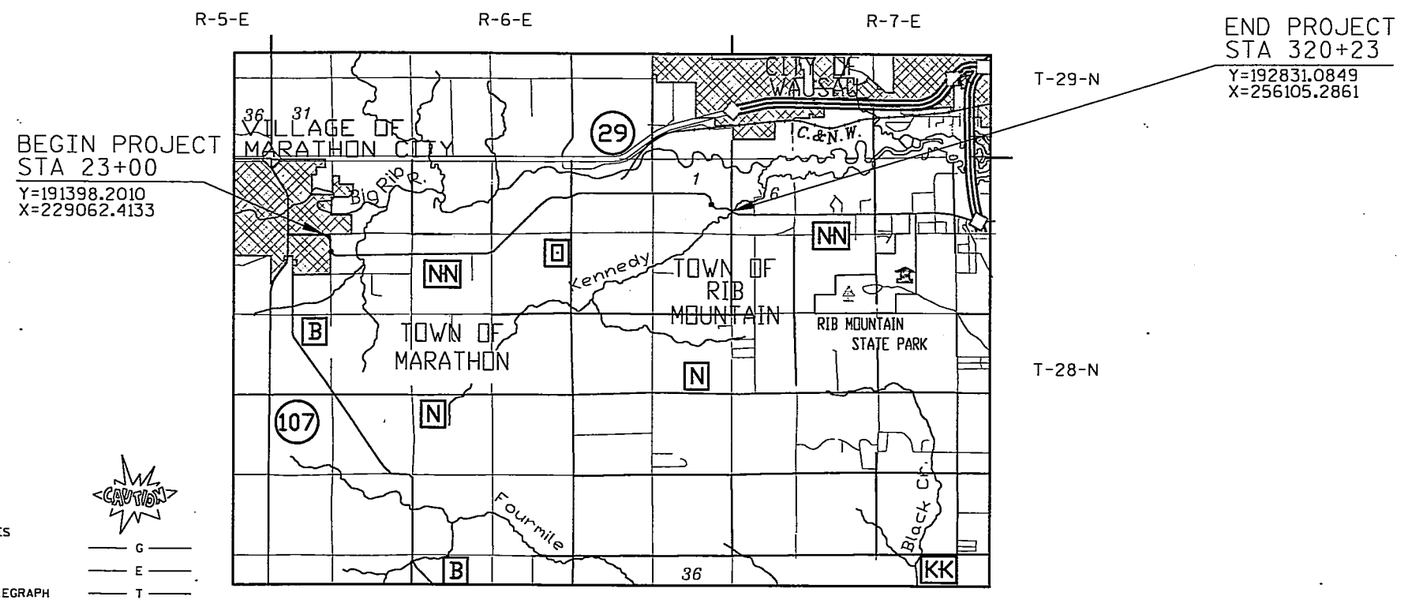
SPRING VALLEY DR TO WAXWING RD

CTH NN

MARATHON COUNTY

N

STATE PROJECT NUMBER
6663-01-70



DESIGN DESIGNATION

A.A.D.T.(2009)	=	1790
A.A.D.T.(2029)	=	2180
D.H.V. (2009)	=	300
D.D.	=	60-40
T.	=	6.1%
DESIGN SPEED	=	55 MPH
ESALS	=	270,100

CONVENTIONAL SYMBOLS

COUNTY LINE
CORPORATE LIMITS
PROPERTY LINE (P.L. + 58.1)
LOT LINE
LIMITED EASEMENT
EARTHWORK BALANCE POINT
EXISTING RIGHT OF WAY
PROPOSED OR NEW R/W LINE
SURVEY LINE
SLOPE INTERCEPT
ORIGINAL GROUND
MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
MARSH AREA
WOODED OR SHRUB AREA

COMBUSTIBLE FLUIDS (CAUTION)
UNDERGROUND UTILITIES
GAS (G)
ELECTRIC (E)
TELEPHONE OR TELEGRAPH (T)
TV/CABLE (TV)
SERVICE PEDESTAL
POWER POLE
TELEPHONE POLE
RAILROAD
SANITARY SEWER (SAN)
STORM SEWER (SS)
WATER (W)
EXISTING CULVERT
PROPOSED CULVERT (Box or Pipe)
CULVERT (Profile View)

LAYOUT
SCALE 0 — 1 MI

TOTAL NET LENGTH OF CENTERLINE = 5.629 MI (RURAL)

Coordinates on this plan are referenced to the Wisconsin County Coordinate System (WCCS), Marathon County

ACCEPTED FOR:
MARATHON COUNTY HIGHWAY DEPARTMENT

3-17-09
DATE: HIGHWAY COMMISSIONER

ORIGINAL PLANS PREPARED BY:
MARATHON COUNTY HIGHWAY DEPARTMENT

WISCONSIN
KEVIN S. LANG
E-36342
WAUSAU
WI
PROFESSIONAL ENGINEER
3-17-2009

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MCHD
Designer	MCHD
Management Consultant	CEDAR CORPORATION
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 3-20-09
(Management Consultant Signature)

E

PLOT BY :
PLOT NAME :

WISDOT/CADDS SHEET 10

2

STANDARD ABBREVIATIONS

ABUT	ABUTMENT
AC	ACRE
AGG	AGGREGATE
AECPRC	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
ASPH	ASPHALTIC
AVG	AVERAGE
ADT	AVERAGE DAILY TRAFFIC
BF	BACK FACE
BM	BENCH MARK
BR	BRIDGE
CE	COMMERCIAL ENTRANCE
CL OR C/L OR ℄	CENTER LINE
△	CENTRAL ANGLE OR DELTA
CONC	CONCRETE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CR	CREEK
CY	CUBIC YARD
C & G	CURB AND GUTTER
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DISCH	DISCHARGE
DG	DITCH GRADE
DWY	DRIVEWAY
X	EAST GRID COORDINATE
EAT	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
EOR	END POINT OF RADIUS
EL	ELEVATION
ENT	ENTRANCE
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXC	EXCAVATION
EBS	EXCAVATION BELOW SUBGRADE
EXIST	EXISTING
FC	FACE OF CURB
FF	FACE TO FACE
FERT	FERTILIZE
FE	FIELD ENTRANCE
FL	FLOW LINE
FO	FIBER OPTIC
CWT	HUNDREDWEIGHT
HMA	HOT MIX ASPHALT
HYD	HYDRANT
ID	INSIDE DIAMETER
INV	INVERT
IP	IRON PIPE ON PIN
LHF	LEFT-HAND FORWARD
L	LENGTH OF CURVE
LF	LINEAR FOOT
LC	LONG CHORD OF CURVE
LS	LUMP SUM
MH	MANHOLE
MOR	MID POINT OF RADIUS
NC	NORMAL CROWN
NO	NUMBER
OBLIT	OBLITERATE
PAVT	PAVEMENT
PE	PRIVATE ENTRANCE
PVRC	POINT OF VERTICAL REVERSE CURVE
QOR	QUARTER POINT OF RADIUS
R	RADIUS
REQ'D	REQUIRED
RES	RESIDENCE OR RESIDENTIAL
RHF	RIGHT-HAND FORWARD
R/W	RIGHT-OF-WAY
R	RIVER
RDWY	ROADWAY
R/L OR ℞	REFERENCE LINE
SALV	SALVAGED
SAN	SANITARY SEWER
SF	SQUARE FEET
SY	SQUARE YARD
SDD	STANDARD DETAIL DRAWINGS
STA	STATION
SS	STORM SEWER
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SE	SUPERELEVATION RATE
TC	TOP OF CURB
T OR TN	TOWN
T	TRUCKS (PERCENT OF)
TYP	TYPICAL
VAR	VARIABLE
VC	VERTICAL CURVE
Y	NORTH GRID COORDINATE
YD	YARD

UTILITY CONTACTS

WISCONSIN PUBLIC SERVICE
(POWER)
PO BOX 1166
WAUSAU, WI 54401
TELEPHONE: 715.848.7317
ATTENTION: CLAY VIRCKS
CHVircks@wisconsinpublicservice.com

WISCONSIN PUBLIC SERVICE
(GAS)
1700 SHERMAN STREET
WAUSAU, WI 54401
TELEPHONE: 715.848.7471
ATTENTION: MICHAEL A. BOSI, PE
MABosi@wisconsinpublicservice.com

VERIZON
2689 N. CLERMONT
ANTIGO, WI 54409
TELEPHONE: 715.847.1504
ATTENTION: DEB HUNTER
DEB.HUNTER@VERIZON.COM

CHARTER COMMUNICATIONS
853 MCINTOSH STREET
WAUSAU, WI 54401
TELEPHONE: 715.302.1483
ATTENTION: JEFF KULAF
EMAIL: JKULAF@CHARTER.COM

DIGGERS HOTLINE
Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

MUNICIPAL CONTACTS
TOWN OF RIB MOUNTAIN
3700 NORTH MOUNTAIN ROAD
WAUSAU, WI 54401
TELEPHONE: 715.842.0983
ATTENTION: ALLEN OPALL, CHAIRMAN
OR GAYLENE RHODEN, ADMINISTRATOR
GRHODEN@TOWNOFRIBMOUNTAIN.ORG

TOWN OF MARATHON
4236 COUNTY ROAD B
MARATHON, WI 54448
TELEPHONE: 715.443.3554
ATTENTION: KEITH LANGENHAHN, CHAIRMAN

DNR LIASON
473 GRIFFITH AVENUE
WISCONSIN RAPIDS, WI 54494
TELEPHONE: 715.421.7867
ATTENTION: TONY FISCHER
ANTHONY.FISCHER@WISCONSIN.GOV

DESIGNER:
MARATHON COUNTY HIGHWAY DEPARTMENT
1430 WEST STREET
WAUSAU, WI 54401
TELEPHONE: 715.261.1809
ATTENTION: KEVIN LANG, PE
KSLANG@CO.MARATHON.WI.US

RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 24.1 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 15.1 ACRES

PAVEMENT BORING LOG

BORING	STATION	OFFSET FROM CENTERLINE	ASPHALT (INCHES)	GRAVEL BASE (INCHES)
1	43+00	6' LT	3.0	9.0
2	68+00	6' LT	3.5	8.5
3	88+00	7' RT	4.0	10.0
4	116+00	6' RT	6.0	6.0
5	135+00	6' LT	3.5	9.0
6	163+00	6' RT	4.0	7.8
7	188+00	6' RT	3.0	8.0
8	213+00	6' LT	3.0	8.0
9	238+00	6' LT	3.0	8.0
10	263+00	7' LT	3.0	8.0
11	288+00	7' LT	3.5	8.0
12	313+00	5' LT	3.5	8.0

GENERAL NOTES

ASPHALTIC WASTE MATERIAL RESULTING FROM VARIOUS OPERATIONS UNDER THIS CONTRACT SHALL BE ENTIRELY REMOVED AND PROPERLY DISPOSED OF AT TIME OF OCCURENCE.

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

THE EXACT LOCATION OF MATCH POINTS AND THE AMOUNT OF PULVERIZED ASPHALTIC SURFACE AT THE SIDE ROADS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

PROVIDE A TRUE STRAIGHT EDGE DURING PULVERIZING OPERATIONS AT BEGIN AND END PROJECT LIMITS, ROAD INTERSECTIONS AND ASPHALTIC PRIVATE ENTRANCES. THIS WORK IS CONSIDERED INCIDENTAL TO PULVERIZE AND RELAY.

EXACT LOCATIONS OF PRIVATE AND FIELD ENTRANCES ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

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

SECTION MONUMENT LOCATION SHOWN IN PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATION TO BE ESTABLISHED IN THE FIELD BY THE COUNTY SURVEYOR (CHET NOWACZYK 715.261.6025) OR AS REQUIRED BY THE ENGINEER.

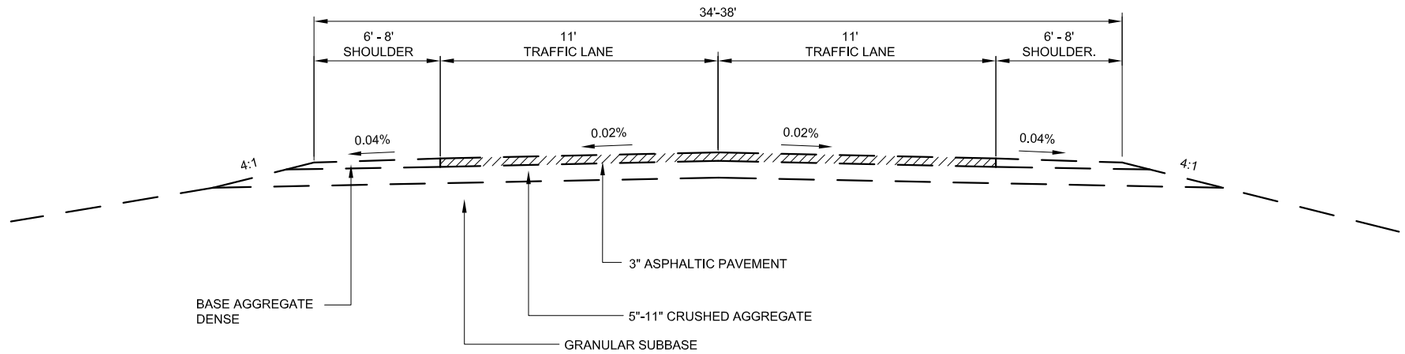
HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYER THICKNESSES:

PAVEMENT THICKNESS (INCH)	LOWER LAYER (INCH)	NOM AGG SIZE (MM)	UPPER LAYER (INCH)	NOM AGG SIZE (MM)
5	3	19.5	2	12.5

WHEN THE QUANTITY OF THE ITEM OF BASE OR SURFACE 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 ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

2

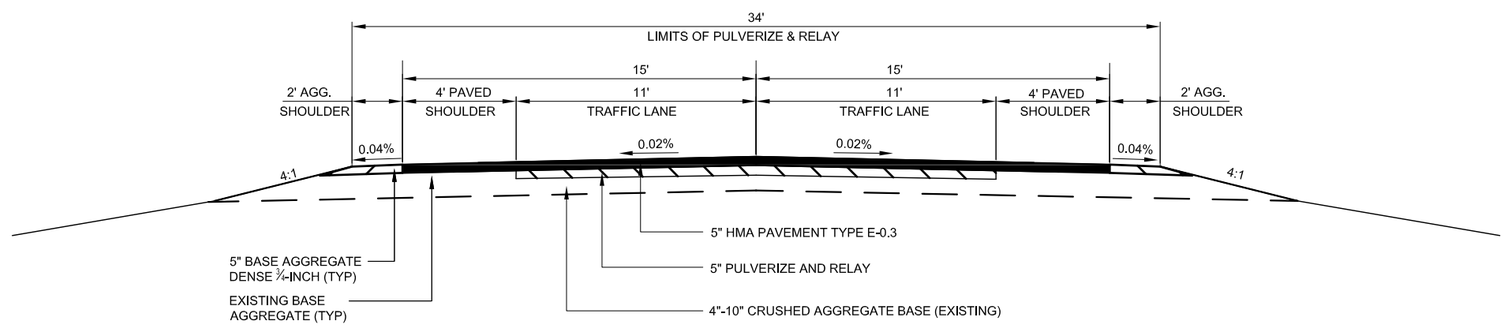
2



TYPICAL EXISTING SECTION

CTH NN

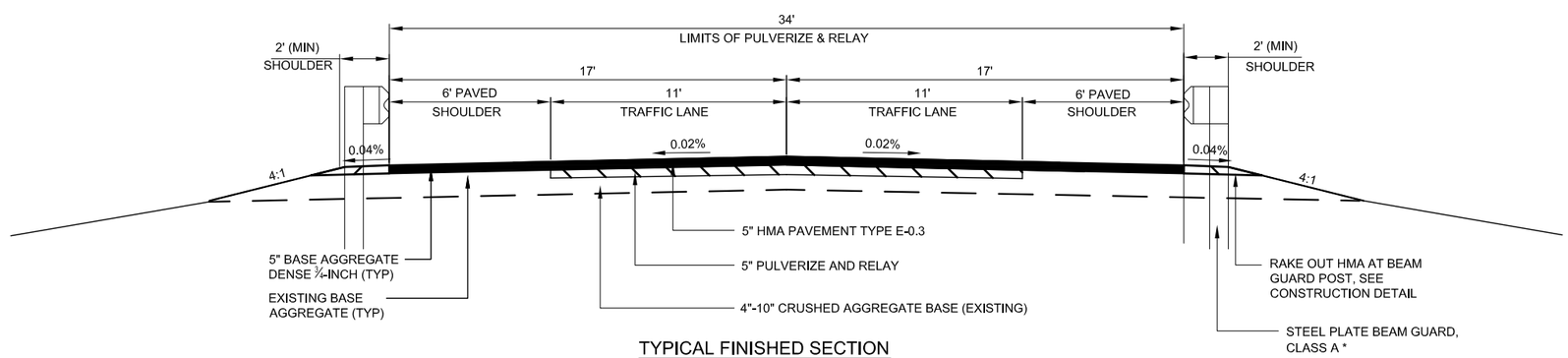
STA 23+00 TO STA 320+23



TYPICAL FINISHED SECTION

CTH NN

STA 23+00 TO STA 50+20
STA 57+70 TO STA 305+37
STA 313+05 TO STA 320+23



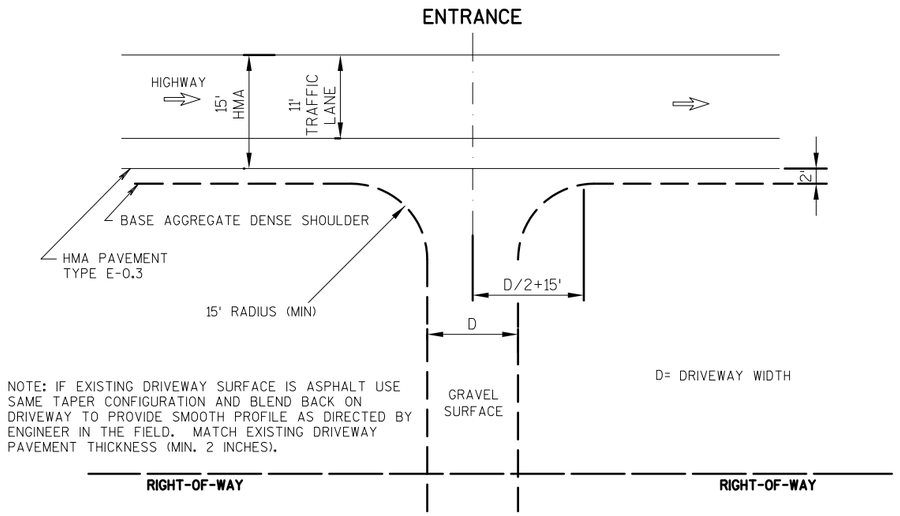
TYPICAL FINISHED SECTION

CTH NN
STA 50+20 TO STA 57+70 *
STA 305+37 TO STA 313+05 *

*STATION 50+20 - 57+70, BEAM GUARD ON RIGHT SIDE OF ROAD
STATION 50+20 - 56+30, BEAM GUARD ON LEFT SIDE OF ROAD
STATION 305+37 - 313+05, BEAM GUARD ON LEFT SIDE OF ROAD

2

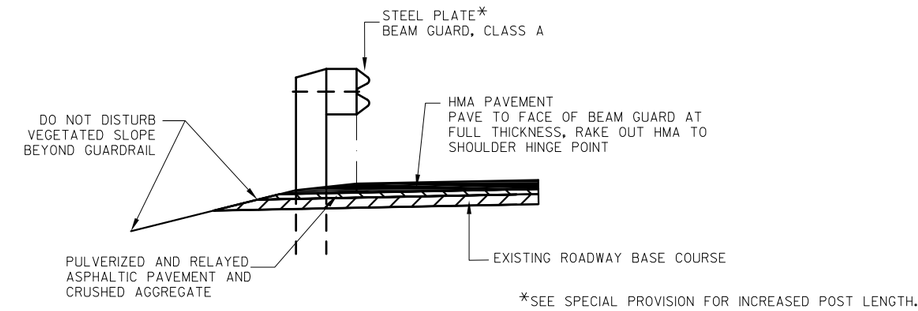
PROJECT NO: 6663-01-70	HWY:CTH NN	COUNTY: MARATHON	TYPICAL SECTIONS	SHEET	E



NOTE: IF EXISTING DRIVEWAY SURFACE IS ASPHALT USE SAME TAPER CONFIGURATION AND BLEND BACK ON DRIVEWAY TO PROVIDE SMOOTH PROFILE AS DIRECTED BY ENGINEER IN THE FIELD. MATCH EXISTING DRIVEWAY PAVEMENT THICKNESS (MIN. 2 INCHES).

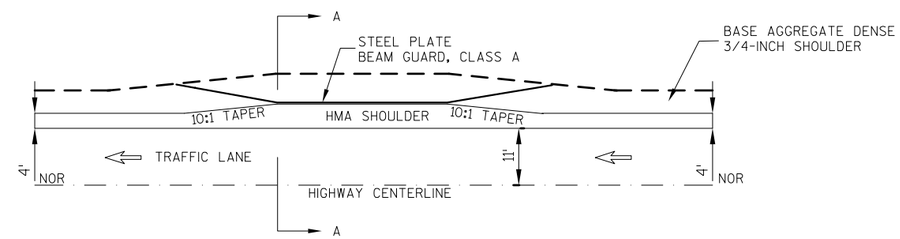
RURAL DRIVEWAY INTERSECTION DETAIL

(PE'S, FE'S & CE'S)

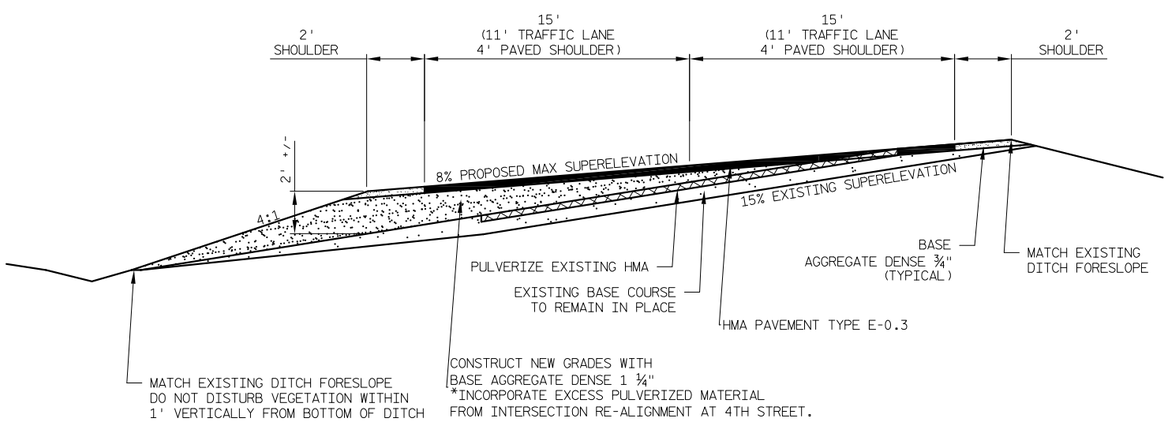


*SEE SPECIAL PROVISION FOR INCREASED POST LENGTH.

SECTION A-A

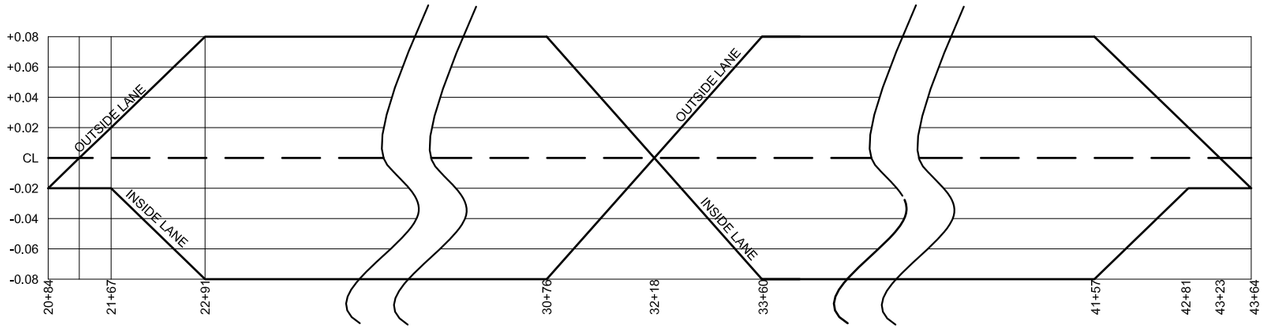


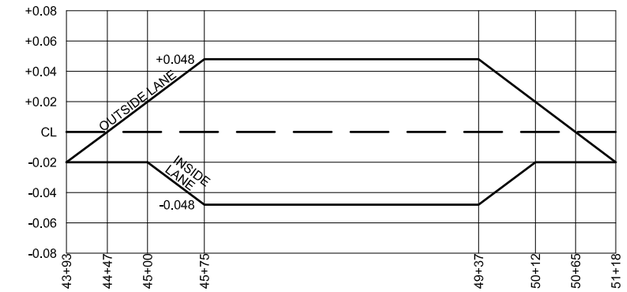
HMA SHOULDER AT BEAM GUARD DETAIL

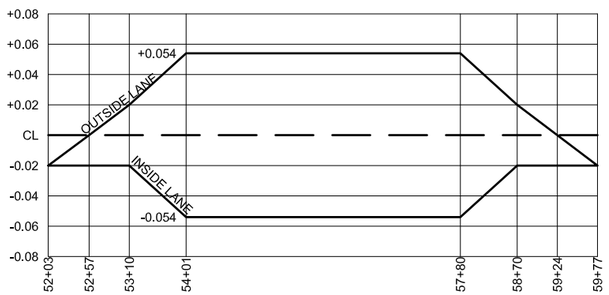


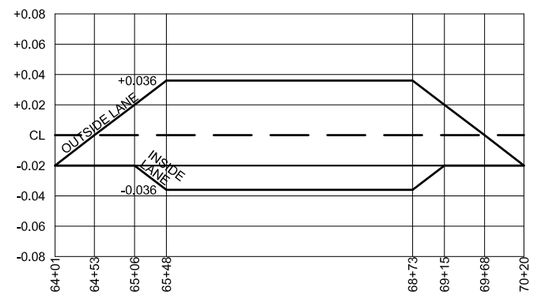
CURVE SUPERELEVATION GRADING DETAIL

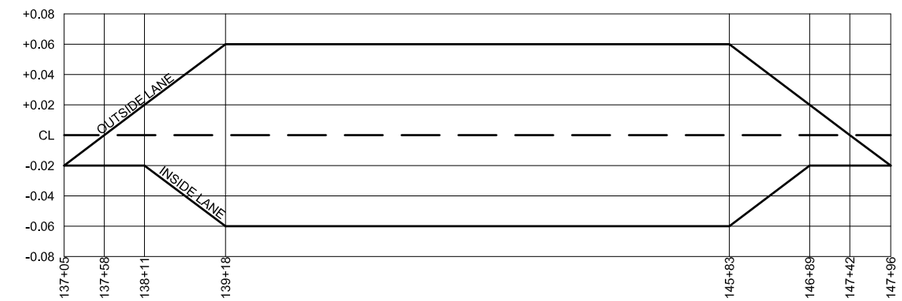
STATION 23+00 - 31+30.67
STATION 33+04.90 - 42+11.71

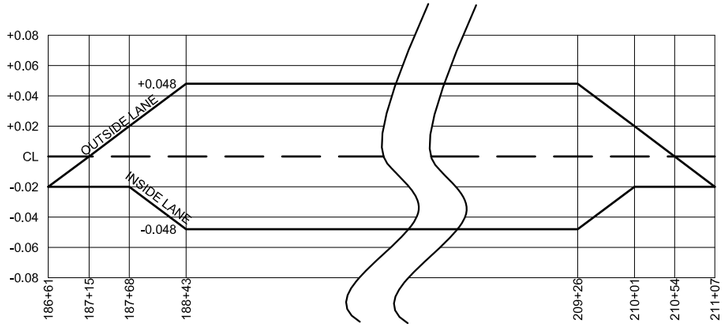


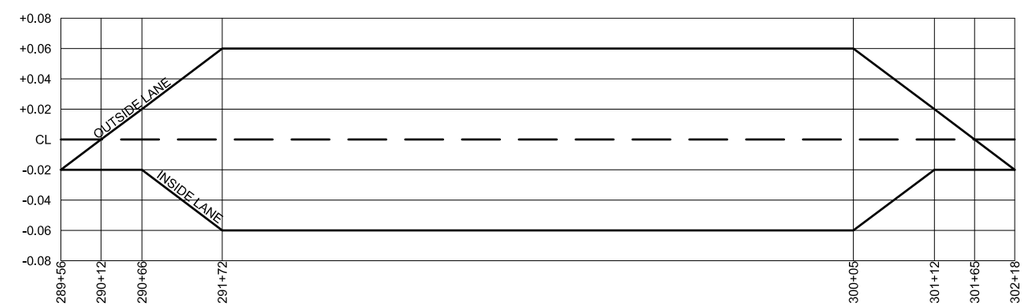


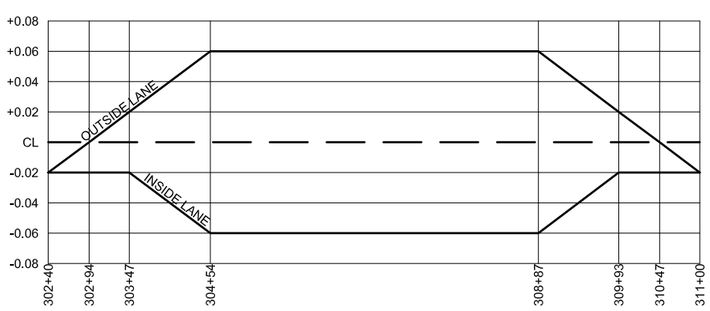


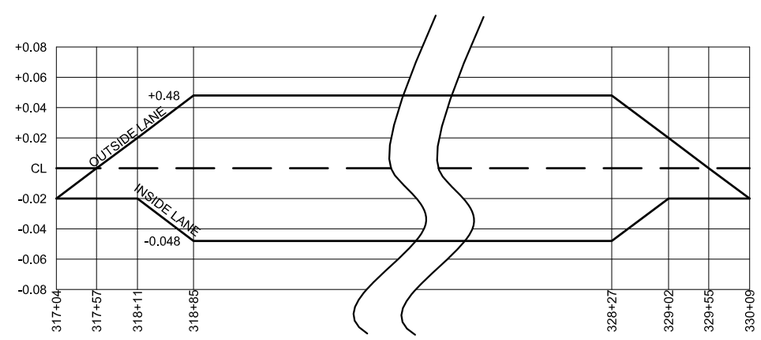


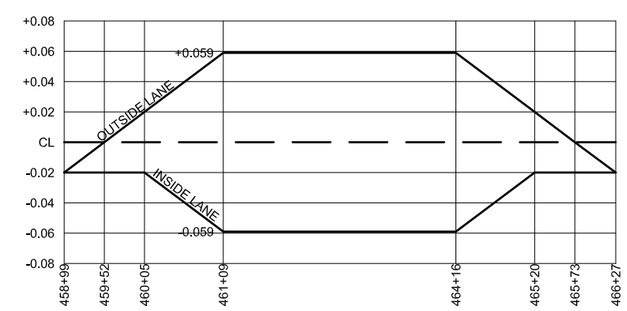












SUPERELEVATION TABLES

PROJECT NO:6663-01-70	HWY: CTH NN	COUNTY: MARATHON	CONSTRUCTION DETAILS	SCALE, FEET 0 NTS	SHEET -----	E

FILE NAME : $FILE$ PLOT TIME : $TIME$ PLOT DATE : $DATE$ PLOT BY : $$...plotuser...$$ PLOT NAME : ----------PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 44

O:\COMMON\ENGINEERING\2009\2009-CTH NN\dwg\2009NN-construction details.dwg, 3/16/2009 9:38:26 AM, Adobe PDF

3

STEEL PLATE BEAM GUARD

STATION	LOCATION	EXCAV. COMMON* (CY)	EXCAV. BORROW* (CY)	SALV. TOPSOIL* (SY)	FERT. TYPE B* (CWT.)	SEEDING MIX #20 * (LB)	* MULCHING (SY)	205.9006.S GRADING, SHAPING & FINISHING FOR BARRIER TERMINALS (EACH)	614.0305 STEEL PLATE BEAM GUARD CLASS A (LF)	614.037 STEEL PLATE BEAM GUARD ENERGY ABS. TERMINAL (EACH)	204.0165 REMOVING GUARD RAIL (LF)
50+20 - 57+70	RIGHT	0	50	200	0.126	6	200	2	650	2	
50+20 - 56+30	LEFT	0	30	160	0.1008	5	160	2	510	2	
305+37 - 313+05	LEFT	0	10	100	0.063	3	100	2	668	2	620
TOTAL								**6**	**1828**	**6**	**620**

* ITEMS LISTED ARE ESTIMATED FOR BID INFORMATION ONLY.

GRADING, SHAPING AND FINISHING INTERSECTION

LOCATION	EXCAVATION COMMON* (CY)	EXCAVATION BORROW* (CY)	SALV. TOPSOIL* (SY)	FERTILIZER TYPE B* (CWT.)	SEEDING MIX #20 * (LB)	* MULCHING (SY)	205.9010.S GRADING, SHAPING AND FINISHING INTERSECTION (EACH)
CTH NN & 4TH STREET (NORTH RADIUS ONLY)	0	0	300	0.19	9	300	**1**

* ITEMS LISTED ARE ESTIMATED FOR BID INFORMATION ONLY.
EXCAVATION IS LISTED AS 0 AS IT IS ANTICIPATED THE EXCAVATE MATERIAL WILL BE PULVERIZED HMA AND BASE COURSE THAT WILL BE INCORPORATED WITH THE PULVERIZED MATERIAL ON CTH NN IMMEDIATELY ADJACENT TO THE INTERSECTION OF CTH NN AND 4TH STREET.

EROSION CONTROL

LOCATION	628.1504 SILT FENCE MAINTENANCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.1905 MOBILIZATION EROSION CONTROL (EACH)	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL (EACH)	628.2004 EROSION MAT CLASS I TYPE B (SY)	628.7504 TEMPORARY DITCH CHECKS (LF)
UNDISTRIBUTED	500	500	2	2	500	50

MOBILIZATION, STAKING, FINISHING ROADWAY, PREPARE FOUNDATION FOR ASPHALTIC PAVING

LOCATION	STATION			619.1000 MOBILIZATION (EACH)	650.8000 CONSTRUCTION STAKING RESURFACING (LF)	213.0100 FINISHING ROADWAY (EACH)	211.0100 PREPARE FOUNDATION FOR ASPHALTIC PAVING (LS)
CTH NN	23+00	-	320+23	1	29723	1	1

PAVEMENT MARKING

Station			Location	646.0106 PAVEMENT MARKING EPOXY 4" YELLOW (LF)	646.0106 PAVEMENT MARKING EPOXY 4" WHITE (LF)	649.0100 TEMPORARY PAVEMENT MARKING 4-INCH (LF)
23+00	-	320+23	CTH NN	36400	59500	35000
TOTAL				**95900**		**35000**

TRAFFIC CONTROL

LOCATION	643.0100 TRAFFIC CONTROL BARRICADES EACH	643.0420 TRAFFIC CONTROL BARRICADES TIME DAYS	643.0420 TYPE III NO.	643.0420 QUANTITY DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TIME DAYS	643.0705 TYPE A NO.	643.0705 QUANTITY DAYS	643.0900 TRAFFIC CONTROL SIGNS TIME DAYS	643.0900 NO.	643.0900 QUANTITY DAYS
CTH NN	1	60	2	120	60	4	240	60	6	360
MARATHON RD		60	2	120	60	4	240	60	1	60
MAPLE ROAD		60	2	120	60	4	240	60	6	360
WHIPPORWILL RD		60	1	60	60	2	120	60	6	360
CTH O		60	2	120	60	4	240	60	2	120
HOLLYWOOD RD		60	2	120	60	4	240	60	2	120
GREENHOUSE RD		60	1	60	60	2	120	60	1	60
CTH NN		60	2	120	60	4	240	60	6	360
ITEM TOTAL	**1**		**14**	**840**		**28**	**1680**		**30**	**1800**

ROADWAY QUANTITIES

Station			Location	325.0100 PULVERIZE AND RELAY (SY)	460.1101 HMA PAVEMENT TYPE E-0.3 (TON)	455.0100 ASPHALTIC MATERIAL PG 58-28 (TON)	455.0605 TACK COAT (GAL)	305.0110 BASE AGG. DENSE 3/4-INCH (TON)	305.0120 BASE AGG. DENSE 1 1/4-INCH (TON)	690.0150 SAWING ASPHALT (LF)
23+00	-	35+00	CTH NN	4540	1120	61.6	100	230	2156	
35+00	-	65+00	CTH NN	11340	2800	154	250	560	2156	
65+00	-	95+00	CTH NN	11340	2800	154	250	560		
95+00	-	125+00	CTH NN	11340	2800	154	250	560		
125+00	-	145+00	CTH NN	7560	1870	102.85	170	380		
145+00	-	175+00	CTH NN	11340	2800	154	250	560		
175+00	-	205+00	CTH NN	11340	2800	154	250	560		
205+00	-	235+00	CTH NN	11340	2800	154	250	560		
235+00	-	266+00	CTH NN	11720	2900	159.5	260	580		
266+00	-	295+00	CTH NN	10960	2710	149.05	250	540		
295+00	-	320+23	CTH NN	9540	2360	129.8	220	470		
		25+00	4TH STREET	280	70	3.85	10	12		30
		58+50	CREEK ROAD	50	20	1.1	10	12		30
		90+20	MARATHON ROAD	100	30	1.65	10	12		48
		160+50	WHIPPORWHILL RD	100	30	1.65	10	12		30
		210+20	CTH O	30	10	0.55	10	12		36
		263+70	HOLLYWOOD RD	30	10	0.55	10	12		30
		297+50	GREENHOUSE RD	30	10	0.55	10	12		36
SUBTOTAL				**112980**	**27940**	**1537**	**2570**	**5644**	**4320**	**240**

ROADWAY QUANTITIES (CONTINUED)

STATION	DESCRIPTION	325.0100 PULVERIZE AND RELAY (SY)	460.1101 HMA PAVEMENT TYPE E-0.3 (TON)	455.0100 ASPHALTIC MATERIAL PG 58-28 (TON)	455.0605 TACK COAT (GAL)	305.0110 BASE AGG. DENSE 3/4-INCH (TON)	305.0120 BASE AGG. DENSE 1 1/4-INCH (TON)	690.0150 SAWING ASPHALT (LF)
38+65	PE					6		
62+42	PE					6		
69+49	FE					6		
85+00	FE					6		
85+00	FE					6		
97+38	PE		3	0.165		2		12
102+15	PE					6		
103+24	FE					6		
103+24	PE					6		
104+08	PE					6		
111+47	FE					6		
121+54	PE					6		
126+81	PE					6		
128+10	PE					6		
133+26	PE		3	0.165		2		12
134+78	PE		3	0.165		2		12
149+63	PE					6		
150+99	PE					6		
161+40	PE					6		
169+11	PE					6		
172+50	PE					6		
180+81	FE					6		
185+04	CE					6		
190+98	PE					6		
192+19	PE					6		
192+09	FE					6		
197+38	CE					6		
198+74	PE					6		
201+69	FE					6		
210+62	FE					6		
212+76	PE					6		
219+23	FE					6		
220+38	PE					6		
221+79	CE					6		
222+60	PE					6		
223+43	PE		3	0.165		2		12
223+83	CE					6		
225+55	PE		3	0.165		2		12
226+07	PE		3	0.165		2		12
226+13	PE					6		
228+01	PE		3	0.165		2		12
231+37	FE					6		
234+51	FE					6		
235+26	CE					6		
237+47	CE					6		
247+31	PE					6		
248+45	PE					6		
251+58	PE		3	0.165		2		12
252+29	PE					6		
253+00	PE					6		
254+61	PE					6		
257+69	PE		3	0.165		2		12
259+76	PE					6		
259+76	PE		3	0.165		2		12
260+76	PE					6		
262+26	PE					6		
266+01	FE					6		
269+83	CE		3	0.165		2		12
270+06	PE		3	0.165		2		12
270+70	FE					6		
271+38	CE		3	0.165		2		12
272+29	CE					6		
273+45	PE					6		
281+01	CE					6		
285+21	PE					6		
287+47	FE					6		
289+42	PE		3	0.165		2		12
290+39	FE					6		
300+49	CE					6		
312+49	PE					6		
318+67	FE					6		
320+28	FE					6		
SUBTOTAL		**0**	**42**	**3**	**0**	**376**	**0**	**168**
TOTAL		**112980**	**27990**	**1540**	**2570**	**6020**	**4320**	**408**

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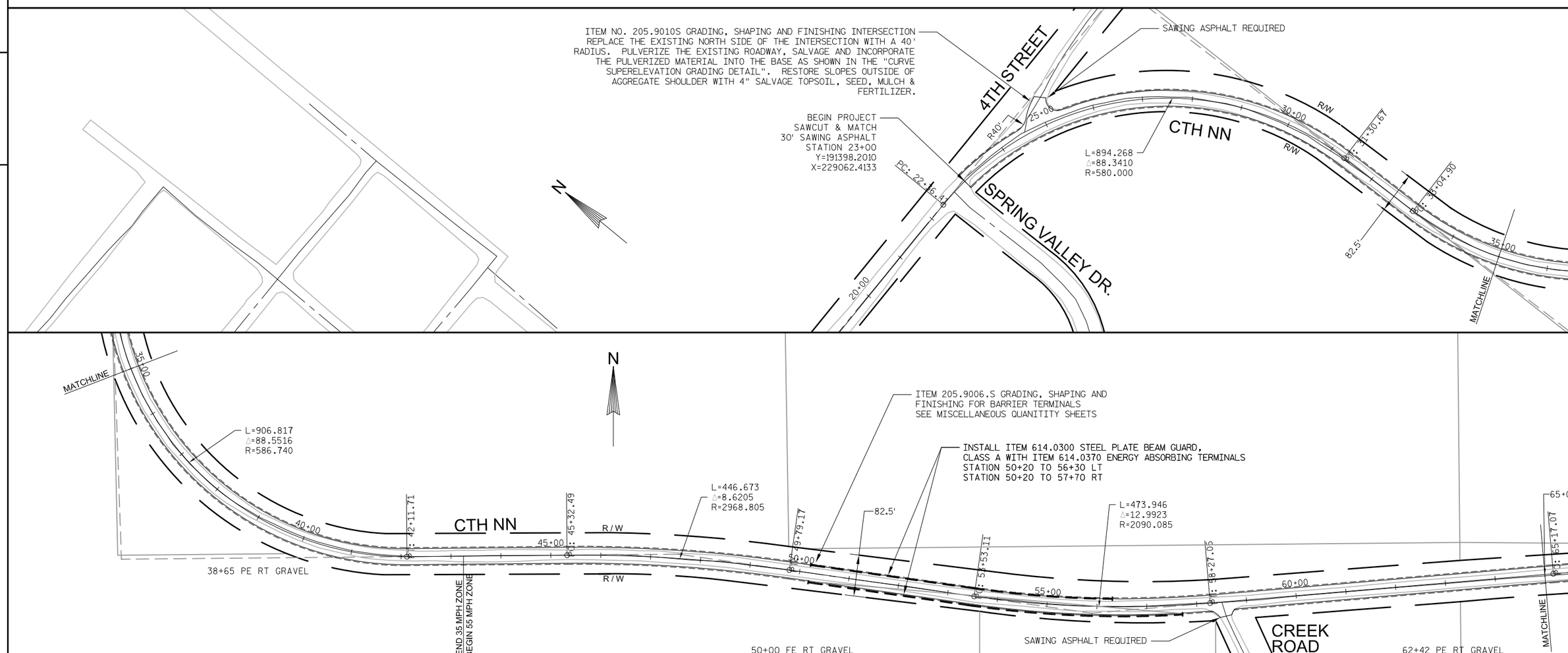

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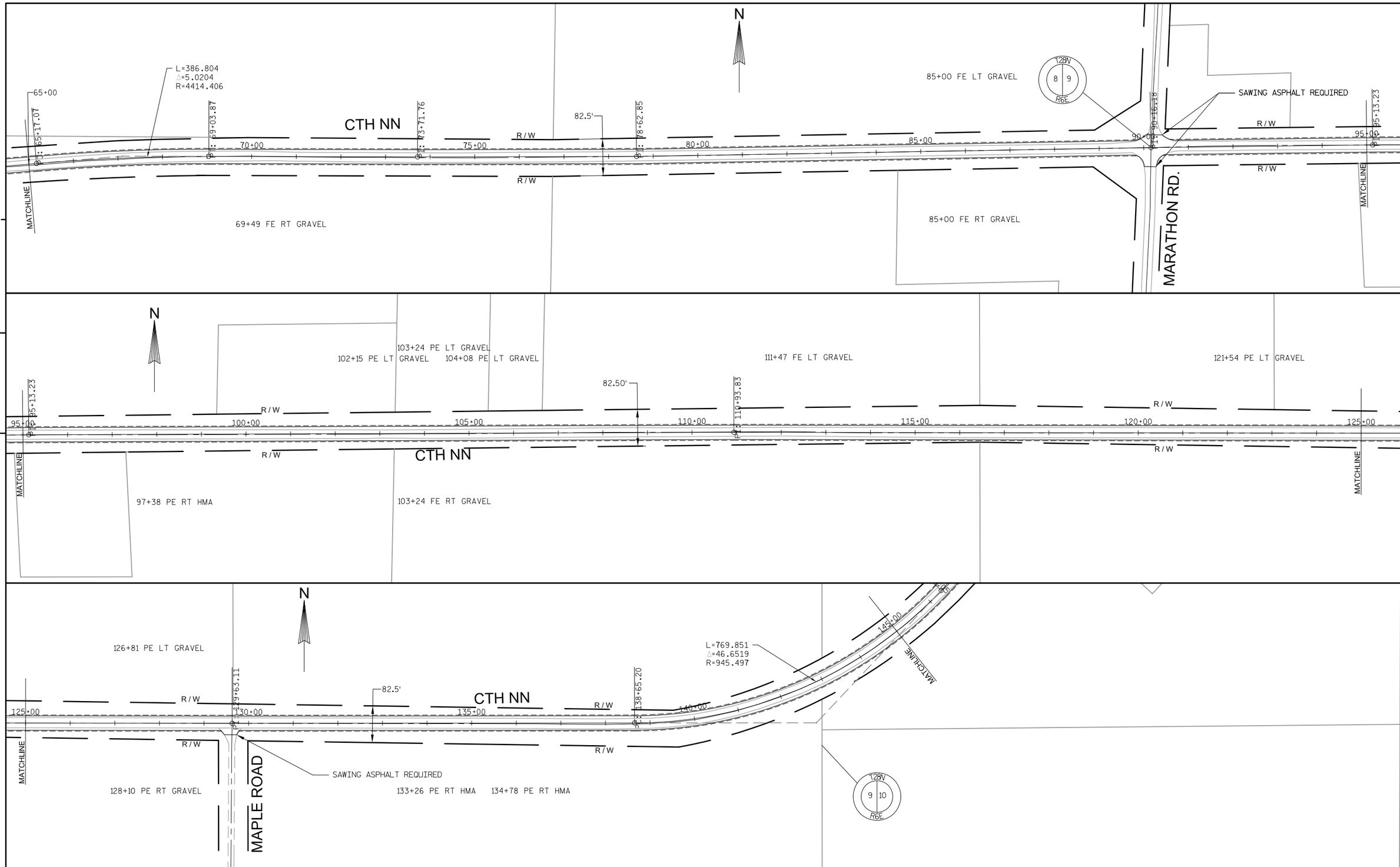

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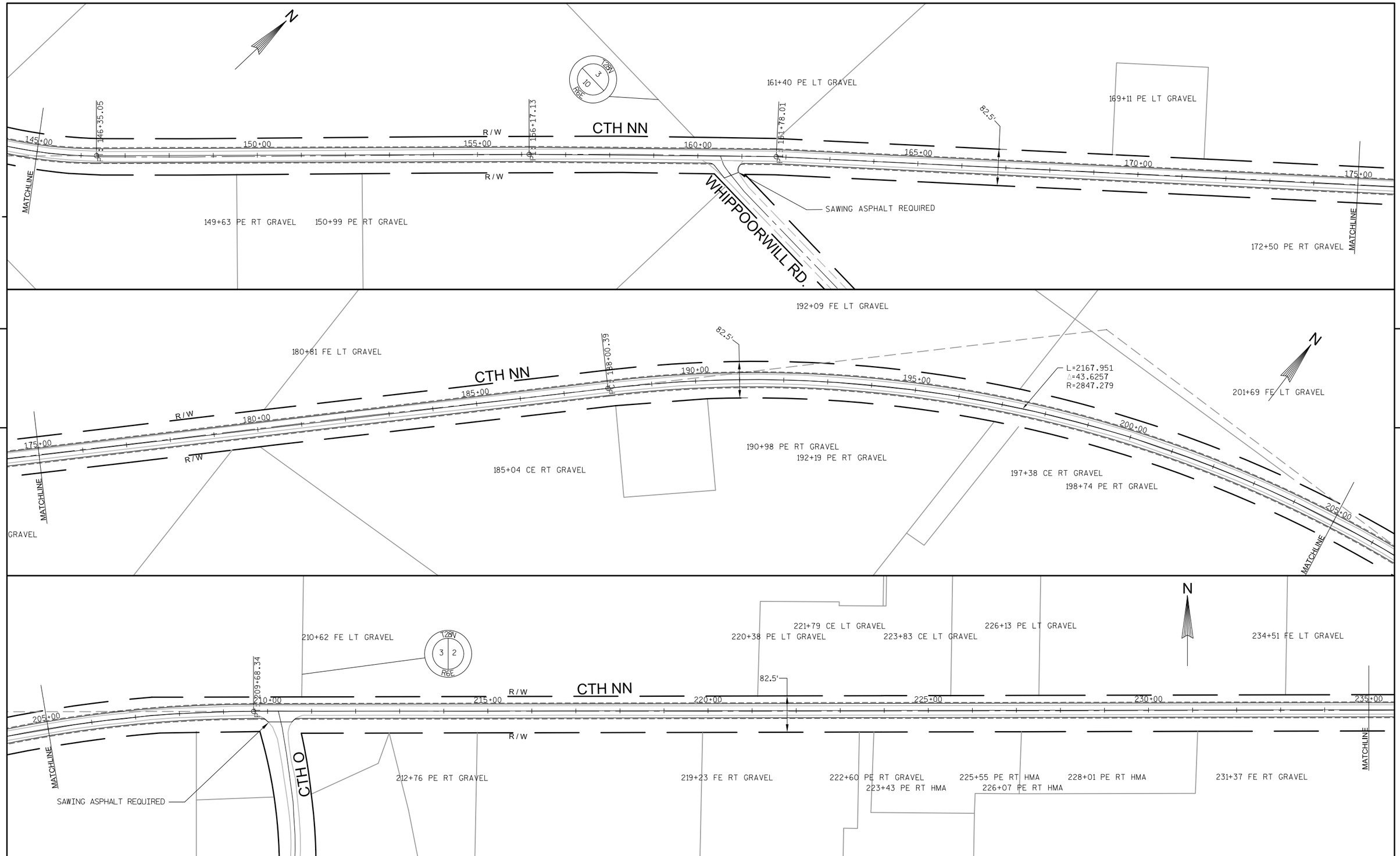

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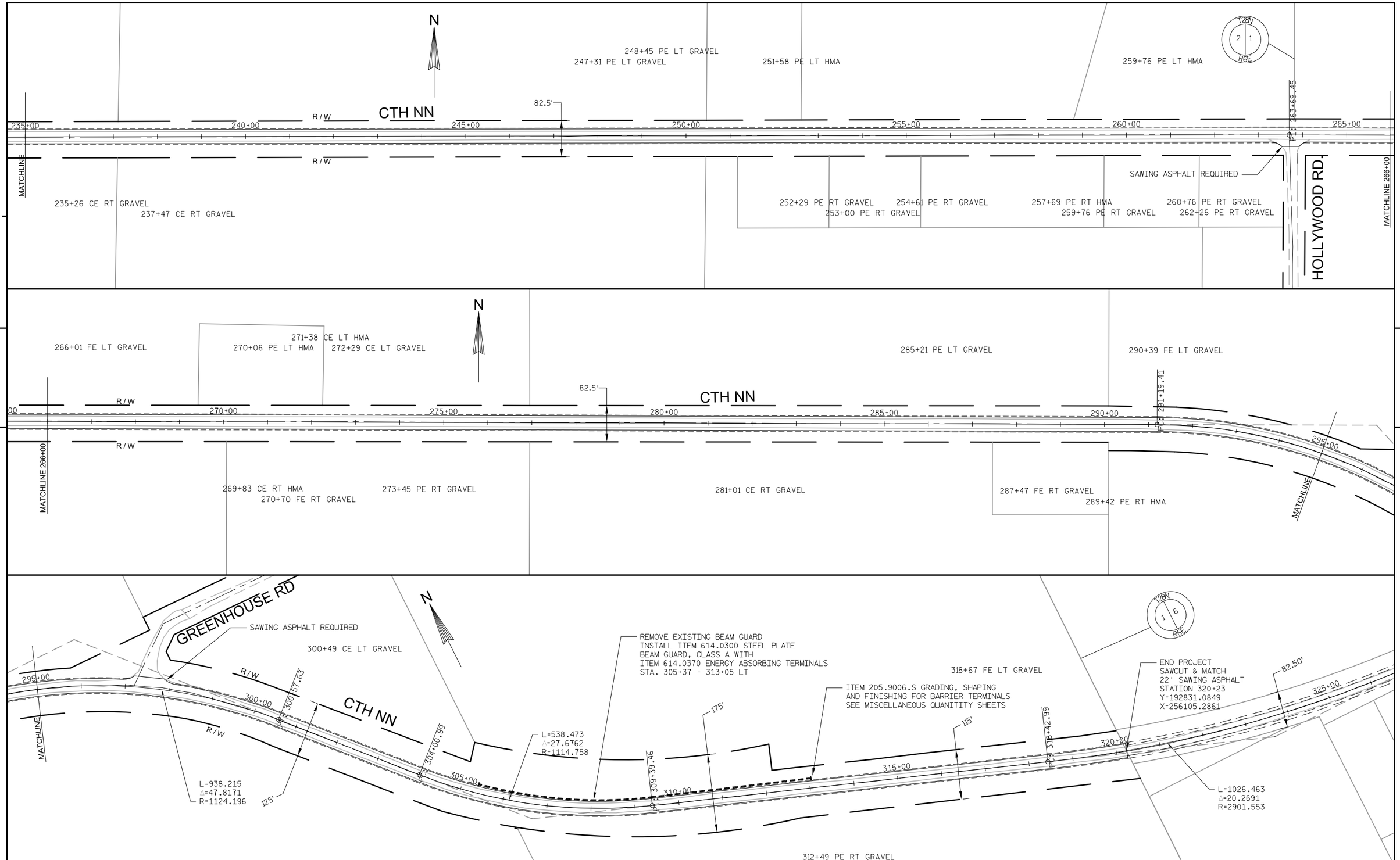

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