02-28-14 LETTING ITEM 133

PLANS FOR PROPOSED LOCAL AGENCY IMPROVEMENT

FEDERAL AID SECONDARY PROJECT

FAS 78 - SHANNON ROUTE
SECTION 11-00092-00-PV
CARROLL COUNTY
PROJECT NO. RS-0078(110)
JOB NO. C-92-098-12
CONTRACT NO. 85570

INDEX OF SHEETS

* STANDARDS INSERTED IN PROPOSAL

280001-07	TEMPORARY EROSION CONTROL SYSTEMS
542011	CONC. END SECTIONS FOR ELLIPTICAL PIPE CULV. 15" THRU 72" EQUIVALENT DIA.
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-02	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
542311-05	TRAVERSABLE PIPE GRATE
602411-04	MANHOLE, TY-A, 7' DIAMETER
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604021-02	BASE, FRAME AND LIDS, TYPE 5
606001-05	CONC. CURB, TY-B AND COMBINATION CONC. CURB AND GUTTER
606201-02	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PVMT. EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L ,2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-03	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TY A & B METAL POSTS
780001-04	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYP. APPL. OF TRAFFIC CONTROL DEVICES ON RURAL LOCAL HIGHWAYS
BLR 22-7	TYP. APPL. OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

KNOWN UTILITIES

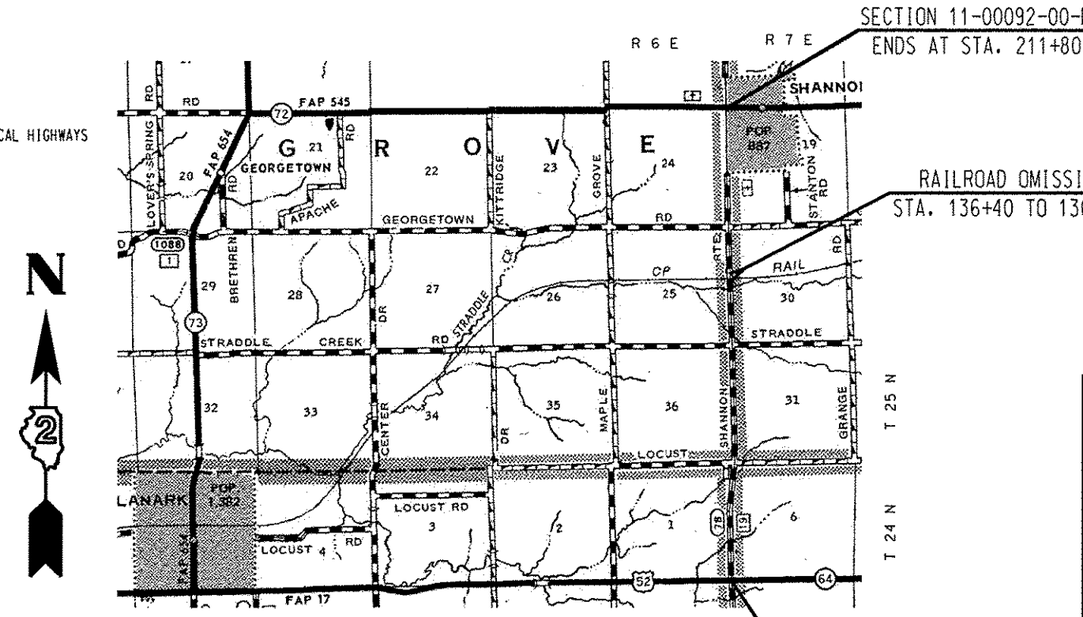
MEDIACOM
1-800-874-2991

FRONTIER TELEPHONE CO.
1-800-921-8104

COM-ED
1-800-334-7661

DESIGN: MAJOR COLLECTOR, 50 MPH DESIGN SPEED
ADT 1900, 7% TRUCKS

"CALL J.U.L.I.E. BEFORE YOU DIG"
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123



LOCATION MAP

0 1/4 1/2 3/4 1 MILE

NET LENGTH OF SECTION = 21,160.06 FT. = 4.01 MILE

SECTION 11-00092-00-PV
ENDS AT STA. 211+80

RAILROAD OMISSION
STA. 136+40 TO 136+60

SECTION 11-00092-00-PV
BEGINS AT STA. 0+00

STATE OF ILLINOIS
KEVIN B. VANDENDOOREN
46520
REGISTERED
PROFESSIONAL ENGINEER

EXP. 11/30/2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED Dec 30 2013
Kevin Vandendooren
CARROLL COUNTY ENGINEER

PASSED January 3, 2014
DISTRICT 2 ENGINEER OF LOCAL ROADS AND STREETS

Releasing for Bid
Based on Limited
Review January 3, 2014
Paul A. Loetz
Deputy Director of Highways, Region 2 Engineer

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	2

SUMMARY OF QUANTITIES

	ITEM	UNIT	QUANTITY
LR400005	CIR-FDR EMULSIFIED ASPHALT	GAL.	183,517
LR400895	FULL-DEPTH RECLAMATION, 9.5"	SQ. YD.	52,434
X0326474	DROP STRUCTURE	EACH	3
X6024250	INLETS, SPECIAL, NO. 5	EACH	2
X7010216	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L.SUM	1
Z0013798	CONSTRUCTION LAYOUT	L.SUM	1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L.SUM	1
Z0055100	RUMBLE RESURFACING	SQ. YD.	91.7
20200100	EARTH EXCAVATION	CU. YD.	6,802
20200500	EARTH EXCAVATION (WIDENING)	CU. YD.	6,736
20400100	BORROW EXCAVATION	CU. YD.	15,330
20900110	POROUS GRANULAR BACKFILL	CU. YD.	1,468
21001000	GEOTECHNICAL FABRIC FOR GROUND STAB.	SQ. YD.	10,013
25000200	SEEDING CLASS 2	ACRE	12.1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1,089
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1,089
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1,089
25100115	MULCH, METHOD 2	ACRE	12.1
28000400	PERIMETER EROSION BARRIER	FOOT	6,076
28000500	INLET & PIPE PROTECTION	EACH	45
35101400	AGGREGATE BASE COURSE, TYPE B	TON	9,940
35102400	AGGREGATE BASE COURSE, TYPE B, 12"	SQ. YD.	13,587
40600100	BITUMINOUS MATERIAL (PRIME COAT)	GAL.	11,989
40600300	AGGREGATE (PRIME COAT)	TON	58
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	9,973
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	5,790
42300400	P. C. CONC. DRIVEWAY PVMT., 8"	SQ. YD.	41.5
44000186	HOT-MIX ASPHALT SURFACE REMOVAL, 9"	SQ. YD.	7,372
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ. YD.	2,575
48101200	AGGREGATE SHOULDERS, TYPE B	TON	6,975
50100300	REMOVAL OF EXISTING STRUCTURES, N1	EACH	1
50100400	REMOVAL OF EXISTING STRUCTURES, N2	EACH	1
50100500	REMOVAL OF EXISTING STRUCTURES, N3	EACH	1
50100600	REMOVAL OF EXISTING STRUCTURES, N4	EACH	1
50100700	REMOVAL OF EXISTING STRUCTURES, N5	EACH	1
50100800	REMOVAL OF EXISTING STRUCTURES, N6	EACH	1
50100900	REMOVAL OF EXISTING STRUCTURES, N7	EACH	1
50101000	REMOVAL OF EXISTING STRUCTURES, N8	EACH	1
50200100	STRUCUTRE EXCAVATION	CU. YD.	441
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	23,940
54003000	CONCRETE BOX CULVERT	CU. YD.	157.5
542A0220	PIPE CULVERTS, CLASS A, TY-1, 15"	FOOT	72
542A0223	PIPE CULVERTS, CLASS A, TY-1, 18"	FOOT	164
542A0226	PIPE CULVERTS, CLASS A, TY-1, 21"	FOOT	60
542A0229	PIPE CULVERTS, CLASS A, TY-1, 24"	FOOT	148
542A0235	PIPE CULVERTS, CLASS A, TY-1, 30"	FOOT	198
542A5473	PIPE CULVERTS, CLASS A, TY-1, E.R.S. 18"	FOOT	226
542A5479	PIPE CULVERTS, CLASS A, TY-1, E.R.S. 24"	FOOT	220
542D0213	PIPE CULVERTS, CLASS D, TY-1, 8"	FOOT	20
542D0217	PIPE CULVERTS, CLASS D, TY-1, 12"	FOOT	70
542D0220	PIPE CULVERTS, CLASS D, TY-1, 15"	FOOT	742
54213660	PRECAST REIN. CONC. FLARED END SECT., 15"	EACH	2
54213663	PRECAST REIN. CONC. FLARED END SECT., 18"	EACH	4
54213666	PRECAST REIN. CONC. FLARED END SECT., 21"	EACH	1

CONSTRUCTION TYPE CODE 0004

SUMMARY OF QUANTITIES

		ITEM	UNIT	QUANTITY
	54213669	PRECAST REIN. CONC. FLARED END SECT., 24"	EACH	2
	54213675	PRECAST REIN. CONC. FLARED END SECT., 30"	EACH	4
	54214503	PRECAST REIN. CONC. FLARED END, E.R.S. 18"	EACH	1
	54214509	PRECAST REIN. CONC. FLARED END, E.R.S. 24"	EACH	6
	54215547	METAL END SECTIONS 12"	EACH	4
	54215550	METAL END SECTIONS 15"	EACH	54
	54260311	TRAVERSABLE PIPE GRATE	FOOT	33.5
	54263418	CONCRETE END SECTION,STANDARD 542011,18",1:4	EACH	1
	54263424	CONCRETE END SECTION,STANDARD 542011,24",1:4	EACH	2
	60224437	MANHOLES, TY-A, 7' DIA., TY-SF, CL	EACH	1
	60605000	COMBINATION CONC. CURB & GUTTER, TY-B 6.24	FOOT	182
	67000500	ENGINEERS FIELD OFFICE, TY-B	CAL. MO.	7
	67100100	MOBILIZATION	L. SUM	1
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,118
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ. FT.	706
Δ	78001100	PAINT, PAVEMENT MARKING- LETTERS AND SYMBOLS	SQ. FT.	308
Δ	78001110	PAINT, PAVEMENT MARKING - LINE 4"	FOOT	70,314
Δ	78001180	PAINT, PAVEMENT MARKING - LINE 24"	FOOT	49
Δ	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	>0
Δ	66900450	SPECIAL WASTE PLANS AND REPORTS	L.SUM	1
Δ	66900530	SOIL DISPOSAL ANALYSIS	EACH	1

CONSTRUCTION TYPE CODE 0004

Δ SPECIALTY ITEMS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	3

GENERAL NOTES

See cross sections for special ditches and backslopes.

It is estimated that 22,879 cubic yards of earth will be hauled to the job site from outside the project limits.

Placement and compaction of the backfill for the proposed across road culverts shall conform to Section 502.10 of the Standard Specifications, except that the material shall conform to Aricle 208.02 of the Standard Specifiactions and shall be compacted to a minimum of 95% density.

Placement and compaction of the backfill for the proposed box culverts shall conform to the Section 209.03, Porous Granular Backfill.

Culvert flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

It is anticipated that several mailboxes will require relocation to the approach side of the entrances. When this is done, the contractor shall be required to mount the mailbox on a 4"x4" wood post. This work shall be included in the contract unit price for the EARTH EXCAVATION. There is an estimated 17 mail boxes to be relocated.

The cost of making storm sewer connections to existing drainage pipes shall be included in the contract unit price for the Pipe Culvert being installed.

The contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediatley adjacent to the project construction limits are members of

The applicable portions of Article 105.07 of the Standard Specificaitons shall apply except for the following: The Contractor shall be responsible to locate the vertical depths of the underground utilities which may interfere with construction operations. This work will not be measured or paid for separately, but shall be considered as included in the unit bid price for the item of construction involved.

Per SB699 (90 day utility relocation law), once right-of-way is clear to award the project, a notice will be sent to the utility companies instructing them to have their facilities relocated within 90 days. Estimated date relocation complete = Letting Date + 135 days.

JULIE:

MEDIACOM
FRONTIER TELEPHONE CO.
COM-ED
VILLAGE OF SHANNON

CADD data will be provided to Contractors and Consultants working on this project. This information will be provided upon request as ASCII data files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact Carroll County to request these files.

Utility companies and municipalities whose facilities are shown on the plans or known to be within the construction limits shall be notified by the Contractor of the construction start date.

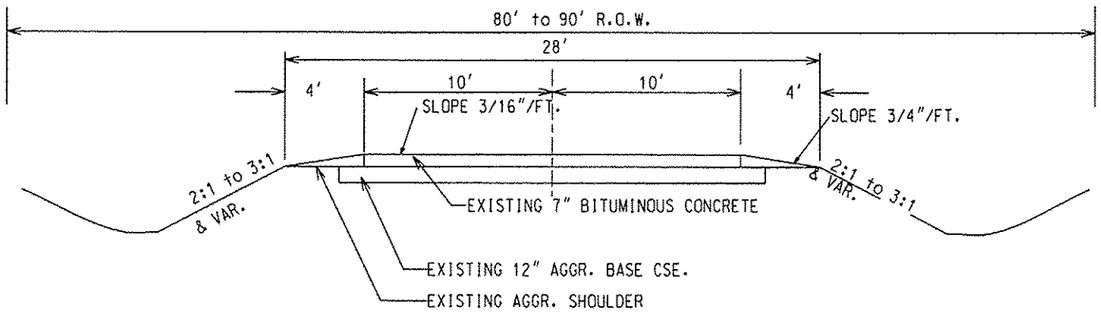
AGGREGATE BASE COARSE, TY-B quantities includes placement of aggregate in field and private entrances to the grade as shown on the cross sections.

For EARTH EXCAVATION, WIDENING, all side road aprons, field entrance aprons and private entrance aprons shall be removed before excavating. HMA removal of these areas are included in DRIVEWAY PAVEMENT REMOVAL.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	4

EXISTING TYPICAL SECTION

SHANNON ROUTE

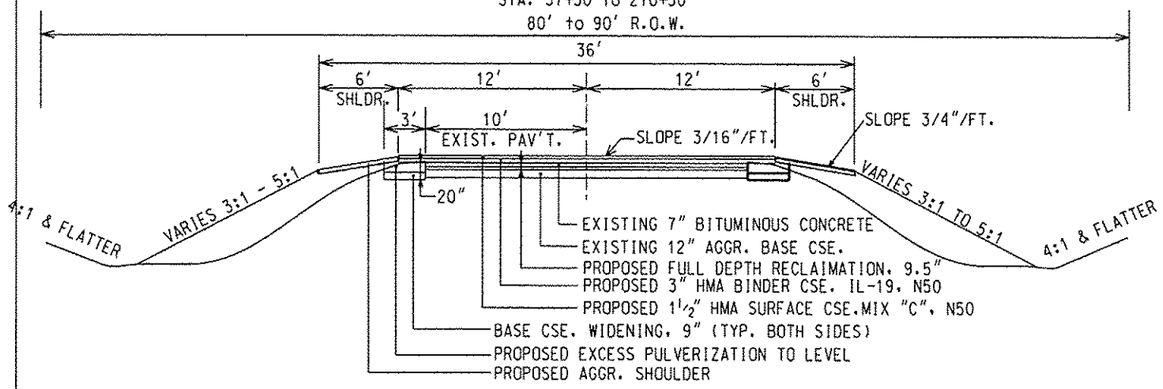


RESURFACING

MIXTURE USES:	SURFACE	BINDER
PG:	PG 58-28	PG 58-28
DESING AIR VOIDS	4.0 @ N50	3.0 @ N50
MIXTURE COMPOSITION	IL 9.5	IL 12.5 OR 19.0
FRICTION AGGREGATE	C	N/A
20 YEAR ESAL	0.0	0.0
MIX UNIT WEIGHT	112 lbs/sy/in	112 lbs/sy/in

PROPOSED TYPICAL SECTION

STA. 2+00 TO 40+00
STA. 57+50 TO 210+50



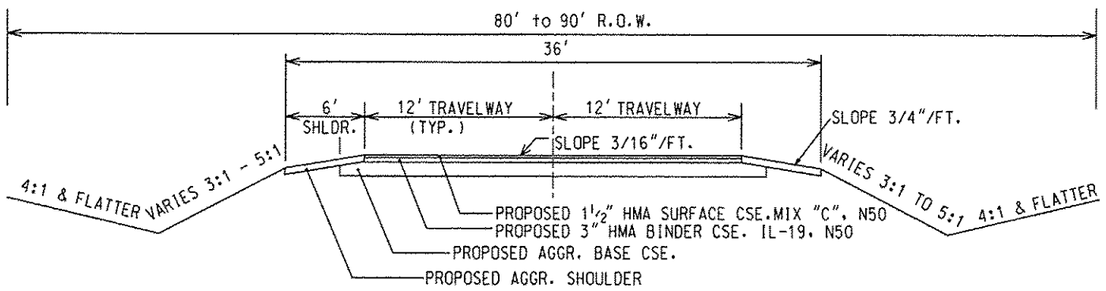
INCLUDES PAVEMENT SUB-BASE WIDENING 3 FEET WIDE BY 20" DEEP, INSTALLATION OF 12" AGGREGATE BASE CSE., TY-B IN THE TRENCH,PULVERIZING THE EXISTING 20' SURFACE 10.5" DEEP, LEVELING THE PULVERIZED SURFACE INTO THE TRENCH AND FULL DEPTH RECLAMATION OF THE SURFACE 8" DEEP BY 26 FEET WIDE. ALSO INCLUDED IS 3" HMA BINDER COARSE & 1½" HMA SURFACE COARSE.

RESURFACING

MIXTURE USES:	SURFACE	BINDER
PG:	PG 58-28	PG 58-28
DESING AIR VOIDS	4.0 @ N50	3.0 @ N50
MIXTURE COMPOSITION	IL 9.5	IL 12.5 OR 19.0
FRICTION AGGREGATE	C	N/A
20 YEAR ESAL	0.0	0.0
MIX UNIT WEIGHT	112 lbs/sy/in	112 lbs/sy/in

PROPOSED TYPICAL SECTION

STA. 0+00 TO 2+00
STA. 40+00 TO 48+72.82
STA. 57+12.59 TO 57+50
STA. 210+50 TO 211+80



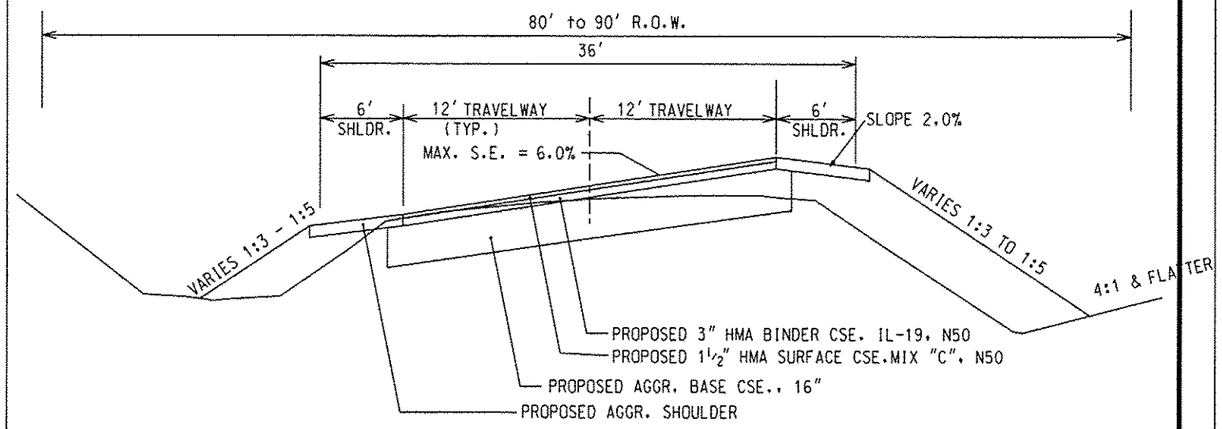
INCLUDES RECONSTRUCTION OF TWO INTERSECTIONS & THE REVERSE CURVES BETWEEN 40+00 TO 57+50 (ON NEW ALIGNMENT), W/ GROUND STABILIZATION FABRIC, 10" OF BREAKER RUN AGGREGATE AND 6" OF AGGREGATE BASE COARSE TY-B, CA-6 OR CA-10, PLACEMENT OF 3" HMA BINDER COURSE & 1 1/2" HMA SURACE CSE.

RESURFACING

MIXTURE USES:	SURFACE	BINDER
PG:	PG 58-28	PG 58-28
DESING AIR VOIDS	4.0 @ N50	3.0 @ N50
MIXTURE COMPOSITION	IL 9.5	IL 12.5 OR 19.0
FRICTION AGGREGATE	C	N/A
20 YEAR ESAL	0.0	0.0
MIX UNIT WEIGHT	112 lbs/sy/in	112 lbs/sy/in

PROPOSED SUPER-ELEVATED TYPICAL SECTION

STA. 48+72.82 TO 57+12.59



CARROLL COUNTY
SEC. 11-00092-00-PV

P.-A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	171-00032-00-PV	CARROLL	68	5

LR400005 CIR-FDR EMULSIFIED ASPHALT

LOCATION	GAL.
2+00 TO 40+00	38.422
57+00 TO 210+50	145.095
	TOTAL 183.517 GAL.

LR400895 FULL-DEPTH RECLAMATION. 9.5"

LOCATION	SO. YD.
2+00 TO 40+00	10.978
57+00 TO 201+00	41.456
	TOTAL 52,434 SO. YD.

Z0055100 RUMBLE RESURFACING

LOCATION	SO. YD.
STA. 5+47	30.56
STA. 6+72	30.56
STA. 7+97	30.56
	TOTAL 91.7 SO. YD.

20200100 EARTH EXCAVATION

LOCATION	CU. YD.
STA. 0+00 - 2+00	634
STA. 18+75	52
STA. 46+73	50
STA. 40+00 - 57+50	2.331
STA. 201+00 - 211+80	2.442
	TOTAL 5.509 CU. YD.

20200500 EARTH EXCAVATION (WIDENING)

LOCATION	CU. YD.
STA. 2+00 - 40+00	1.410
STA. 57+50 - 201+00	5.326
	TOTAL 6.736 CU. YD.

20400100 BORROW EXCAVATION

LOCATION	CU. YD.
STA. 2+00 - 57+50	265
STA. 57+50 - 211+80	13.156
	TOTAL 13.421 CU. YD.

20900110 POROUS GRANULAR BACKFILL

LOCATION	CU. YD.
STA. 18+75	133
STA. 46+73	142
	TOTAL 275 CU. YD.

21001000 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

LOCATION	SO. YD.
STA. 0+00 - 2+00	1.119
STA. 40+00 - 57+50	5.056
STA. 201+00 - 210+50	2.744
STA. 210+50 - 211+80	1.093
	TOTAL 10.013 SO. YD.

35101400 AGGREGATE BASE COURSE. TYPE B

CA-10

LOCATION	TON
STA. 0+00 - 2+00	355
STA. 18+75	119
STA. 46+73	119
STA. 40+00 - 57+50	1.601
STA. 201+00 - 211+80	1215

BREAKER RUN STONE

LOCATION	
STA. 0+00 - 2+00	560
STA. 40+00 - 57+50	2.528
STA. 201+00 - 211+80	1.919
	TOTAL 8.416 TON

35102400 AGGREGATE BASE COURSE. TY-B. 12"

CA-2

LOCATION	SO. YD.
STA. 2+00 - 40+00	2.533
STA. 57+50 - 201+00	9.567
	TOTAL 12.100 SO. YD.

40600100 BIT. MATLS. PRIME COAT

MC-30

LOCATION	GAL.
STA. 0+00 - 2+00	392
STA. 40+00 - 57+50	1.633
STA. 201+00 - 211+80	1.269
SIDE ROADS	595
P.E. & F.E.	840

CSS-1

LOCATION	GAL.
STA. 2+00 - 40+00	1.520
STA. 57+50 - 201+00	5.740
	TOTAL 11.989 GAL.

40603080 HOT MIX ASPHALT BINDER CSE.. IL-19.0. N50

LOCATION	TON
STA. 0+00 - 2+00	193.5
STA. 2+00 - 210+50	9.591
STA. 210+50 - 211+80	188.5
	TOTAL 9.973 TON

40603310 HOT MIX ASPHALT SURFACE CSE.. MIX 'C'. N50

LOCATION	TON
STA. 0+00 - 2+00	96.6
STA. 2+00 - 210+50	4795.5
STA. 210+50 - 211+80	94.0
	TOTAL 4.986 TON

42300400 P.C.C. DRIVEWAY PAVEMENT. 8"

LOCATION	SO.YD.
STA. 210+84.5 - 211+19.3	41.5
	TOTAL 41.5 SO. YD.

44000186 HOT MIX ASPHALT SURFACE REMOVAL. 9"

LOCATION	SO. YD.
STA. 0+00 - 2+00	795
STA. 40+00 - 57+50	3.889
STA. 201+00 - 211+80	2.688
	TOTAL 7.372 SO. YD.

44000200 DRIVEWAY PAVEMENT REMOVAL

LOCATION	SO.YD.
P.E. & F.E.	1.312
SIDE ROADS	1.145
STA. 211+03	118
	TOTAL 2.575 SO. YD.

48101200 AGGREGATE SHLDR.. TYPE B (CA-10)

LOCATION	TON
STA. 0+00 - 2+00. LT. & RT.	17
STA. 2+00 - 210+50. LT. & RT.	6.950
STA. 210+50 - 211+80. LT.	8
	TOTAL 6.975 TON

REMOVAL OF EXISTING STRUCTURES

	LOCATION	EACH
50100300	STA. 12+82	1 EACH
50100400	STA. 18+75	1 EACH
50100500	STA. 46+73	1 EACH
50100600	STA. 121+00	1 EACH
50100700	STA. 177+25	1 EACH
50100800	STA. 196+43	1 EACH
50100900	STA. 205+45	1 EACH
50101000	STA. 211+34	1 EACH

50200100 STRUCTURE EXCAVATION

LOCATION	CU. YD.
STA. 18+75	215
STA. 46+73	226
	TOTAL 441 CU. YD.

50800205 REINFORCEMENT BARS. EPOXY CTD.

LOCATION	POUND
STA. 18+75	10.220
STA. 46+73	13.720
	TOTAL 23.940 POUND

54003000 CONCRETE BOX CULVERT

LOCATION	CU. YD.
STA. 18+75	73.5
STA. 46+73	84.0
	TOTAL 157.5 CU. YD.

54200213 PIPE CULVERT. CLASS D. TY-1. 8"

LOCATION	FOOT
STA. 18+75	20
	TOTAL 20 FOOT

60605000 COMBINATION CONC. CURB & GUTTER. TYPE-B 6.24

LOCATION	FOOT
210+74.5.18'RT. TO 211+70.3.132'RT.	182
	TOTAL 182 FOOT

78001100 PAINT PVT MK - LETTERS & SYMBOLS

LOCATION	SQ. FT.
131+16. RT. RR-XING	154
141+84. LT. RR-XING	154
	TOTAL 308 SQ. FT.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PVT CARROLL	68	1	6

78001110 PAVEMENT MARKING SCHEDULE

SOLID YELLOW S. BOUND (West Side)	FEET
LT STA 0+30 - 18+62	1832
LT STA 39+37 - 61+58	2221
LT STA 79+46 - 100+95	2149
LT STA 121+53 - 134+20	1267
LT STA 171+16 - 193+59	2243
LT STA 207+99 - 211+50	351
	10,063

YELLOW DASHED LINE	FEET
8+60 - 39+37	3077
54+95 - 79+46	2451
89+15 - 127+63	3848
134+20 - 171+16	3696
183+24 - 207+99	2475
	15,547

SOLID YELLOW N. BOUND (East Side)	FEET
RT STA 0+30 - 8+60	830
RT STA 30+87 - 54+95	2408
RT STA 69+20 - 89+15	1995
RT STA 127+63 - 135+07	744
RT STA 149+61 - 183+24	3363
RT STA 207+99 - 211+50	351
	9,691

TOTAL SOLID YELLOW LINES 19,754
TOTAL YELLOW DASH LINES / 4 = 3,887
TOTAL YELLOW FEET 23,641

WHITE EDGE LINES

	FEET
LT STA 0+00 - 52+51	5347
LT STA 53+71 - 105+44	5188
LT STA 106+56 - 158+44	5188
LT STA 159+56 - 211+80	5256
	20,979

	FEET
RT STA 0+00 - 52+51	5290
RT STA 53+71 - 105+44	5173
RT STA 106+56 - 158+44	5188
RT STA 159+56 - 185+21	2565
RT STA 186+11 - 190+89	478
RT STA 191+79 - 207+68.5	1589.5
RT STA 208+83.5 - 211+80	386.5
	20,670

TOTAL WHITE EDGE LINES 41,649

TOTAL PAINT PVT MK LINE, 4" 65,290 FT

78001110 PAINT PVT MK LINE, 4"

	FOOT
YELLOW	27,863
WHITE	42,451
TOTAL	70,314 FOOT

78001180 PAINT PVT MK LINE, 24"

LOCATION	FOOT
0+30 - STOP BAR	24.5
211+50 - STOP BAR	24.5
TOTAL	49 FOOT

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	7

PRIVATE AND FIELD ENTRANCE SCHEDULE

LOCATION					REMARKS	WIDTH	SQ. YD.	20400100 BORROW EXCAVATION	35101400 AGGR. BSE. CSE. TY-B (8")	44000200 DRWY. PVMT. REMOVAL	40603310 HMA SURF CSE "C" N50 (3-1/2")	20200100 EARTH EXC.	542D0217 PIPE CULV. CLASS D, TY -1 12"	542D0220 PIPE CULV. CLASS D, TY -1 15"	54215547 METAL END SEC 12"	54215550 METAL END SEC 15"
						FOOT		CY YD	TON	SY YD	TON	CY YD	FOOT	FOOT	EACH	EACH
Shannon Rte																
Rt Sta	13	+	00	FE		20	107.2	11.2	44.0		7.0	23.6				
Rt Sta	18	+	00	FE		20	107.2	14.0	44.0		7.0	7.5		44		2
Lt Sta	21	+	10	FE		20	107.2	32.3	44.0		7.0	2.1		46		2
Rt Sta	36	+	59	FE		20	107.2	6.4	44.0	20.9	7.0	19.2		48		2
Rt Sta	38	+	39	PE	mb tumout	19	82.3	5.0	33.8	53.2	16.1	8.1				
Rt Sta	39	+	62	FE		12	38.7	6.6	15.9	26.4	7.6	4.1		32		2
Lt Sta	40	+	07	FE												
Rt Sta	65	+	32	PE	mb tumout	12	62.6	11.2	27.5	69.4	12.3	20.9		32		2
Lt Sta	66	+	45	FE		20	107.2	22.1	44.0		7.0	13.9		46		2
Rt Sta	74	+	40	PE	mb tumout	12	63.5	15.6	26.1	56.2	12.5	12.3		32		2
Rt Sta	78	+	50	PE	mb tumout	14	75.4	20.4	31.0		14.8	25.1		36		2
Lt Sta	79	+	46	FE		20	107.2	29.6	44.0	41.8	7.0	13.9				
Rt Sta	86	+	11	PE	mb tumout	20	118.1	39.3	48.6	112.6	23.2	19.7		48		2
Rt Sta	87	+	09	FE		12	36.3	19.0	11.9		7.1	4.0		32		2
Lt Sta	91	+	69	PE		12	78.9	32.6	32.4	57.8	15.5	19.3		50		2
Rt Sta	91	+	69		mb tumout	20	21.7		8.9	13.3	4.3	1.9				
Rt Sta	111	+	88	PE	mb tumout	20	123.1	46.2	50.9		24.1	34.2		64		2
Lt Sta	111	+	93	FE		20	107.2	41.7	44.0		7.0	29.7		48		2
Rt Sta	113	+	46	FE		20	107.2	9.9	44.0		7.0	23.8		48		2
Lt Sta	123	+	69	PE		20	107.2		44.0	94.0	21.0	23.8				
Rt Sta	123	+	97	FE	mb tumout	20	123.1	21.3	50.9	48.3	8.6	20.5				
Rt Sta	129	+	07	PE	mb tumout	16	101.2	33.1	41.6	82.2	19.8	22.5		48		2
Lt Sta	131	+	03	FE		20	107.2	45.4	44.0	42.1	7.0	17.8		48		2
Lt Sta	133	+	21	FE		20	107.2	181.6	44.0		7.0	11.9				
Rt Sta	135	+	61	FE		20	107.2	189.6	44.0		7.0	11.9				
Rt Sta	138	+	21	PE	mb tumout	14	44.0	4.5	18.1	44.0	8.6	10.3		36		2
Rt Sta	140	+	00		mb tumout	45	21.8	15.7	9.0		4.3	30.2				
Lt Sta	140	+	17	PE		20	107.2	38.2	44.0	71.8	18.0	32.2		50		2
Rt Sta	141	+	73	FE		20	107.2	31.6	44.0	47.0	7.0	10.7		46		2
Rt Sta	154	+	00	PE	mb tumout	14	62.4	4.5	25.6	64.6	12.2	20.8				
Rt Sta	165	+	42	FE		20	107.2	98.3	44.0	39.4	7.0	7.8		46		2
Lt Sta	173	+	08	FE		20	107.2		44.0		7.0	23.8				
Lt Sta	174	+	74	FE						39.5		14.8				
Rt Sta	176	+	45	FE		20	107.2	47.8	44.0	43.2	7.0	9.6		46		2
Rt Sta	179	+	26	PE	mb tumout	12	89.3	18.9	36.7	46.8	18.0	29.8		32		2
Rt Sta	182	+	08	PE	mb tumout	12	89.3	18.9	36.7	46.8	18.0	29.8		36		2
Rt Sta	182	+	85	PE		10	37.7					30.1				
Lt Sta	185	+	14	PE	mb tumout	12	89.3	19.6	36.7	62.6	18.0	14.9				
Rt Sta	187	+	71	PE		12	42.5	21.8	17.5	40.4	8.3	7.1		32		2
Rt Sta	193	+	19	FE		10	37.8					30.3				
Rt Sta	196	+	00	FE		20	107.2	28.3	44.0		7.0	23.8		48		2
Lt Sta	196	+	41	FE		20	107.2	16.8	44.0		7.0	23.8				
Rt Sta	197	+	20	PE		19	66.2		27.2		13.0	22.1				
Rt Sta	203	+	22	PE		12	28.2	13.4	11.6	23.6	5.5	9.4				
Rt Sta	204	+	06	PE	mb tumout	12	42.5	20.4	17.5	24.2	8.3	14.2	32	32	2	
Rt Sta	204	+	89	FE		12	32.1	12.1	13.2		3.7	7.1		32		2
Rt Sta	207	+	15		mb tumout	45	22.0	22.6	9.1		4.3	16.8				
Rt Sta	209	+	12	CE		17	40.4		16.6		7.9	13.5	38		2	
Rt Sta	209	+	72	CE		21	44.6		18.3		9.0	14.9				
Rt Sta	210	+	05	CE		12	35.1		14.4		7.1	11.7				
							TOTAL	1267.5	1523.7	1312.1	470.1	851.2	70	742	4	52

SIDE ROAD ENTRANCE SCHEDULE

LOCATION					WIDTH	SQ. YD.	20400100 BORROW EXCAVATION	35102400 AGGR. BSE. CSE. 12"	44000200 DRWY. PVMT. REMOVAL	40603310 HMA SURF CSE "C" N50 (3-1/2")	20200100 EARTH EXC.	542A0220 PIPE CULV. CLASS A, TY - 1 15"	542A0223 PIPE CULV. CLASS A, TY - 1 18"	542A0229 PIPE CULV. CLASS A, TY - 1 24"	542A0235 PIPE CULV. CLASS A, TY - 1 30"	54213660 PRC. FLD. END SEC STD 542301 15"	54213663 PRC. FLD. END SEC STD 542301 18"	54213669 PRC. FLD. END SEC STD 542301 24"	54213675 PRC. FLD. END SEC STD 542301 30"	54215550 METAL END SEC. 15"
					FOOT		CY YD	SQ YD	SY YD	TON	CY YD	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH
LOCUST RD																				
Lt Sta	53	+	11		20	252.9	84.9	246.5	227.9	49.6	151.9		164				4			
Rt Sta	53	+	23		20	219.3	117.6	213.7	146.1	43.0	121.8									
STRADDLE CREEK RD																				
Lt Sta	106	+	00		20	203.9	95.7	198.8	155.5	40.0	34.0				64				2	
Rt Sta	106	+	02		20	199.5	103.0	194.3	140.6	39.1	44.3				64				2	
GEORGETOWN RD																				
Lt Sta	158	+	96		25	150.0	55.9	146.1	115.4	29.4	29.5			72				2		
Rt Sta	159	+	06		20	169.6	80.4	165	108.5	33.2	30.8									
DIVISION ST																				
Rt Sta	185	+	66		27	173.6	44.6	168.9	149.5	34.0	28.9									
SUNSET CT																				
Rt Sta	191	+	33		32	169.5				34.1										2
ARCH ST																				
Rt Sta	208	+	29		27	158.3	59.6	154.0	101.7	31.0		72				2				
						TOTAL	641.7	1487.3	1145.2	333.4	441.2	72	164	72	128	2	4	2	4	2

STORM SEWER SCHEDULE

LOCATION									542A5473 PIPE CULV. CLASS A, TY - 1 E.R.S. 18"	60224437 MANHOLES TY-A 7' DIA.	X6024250 INLET SPECIAL NO. 5	54214503 PRC. FLD. END SECT STD 542306 E.R.S. 18"	20900110 POROUS GRANULAR BACKFILL
									FOOT	EACH	EACH	EACH	CU.YD.
Shannon Rte													
Sta	210	+	67	to	Sta	211	+	56.5	86	1		1	28.9
Sta	211	+	56.5	to	Sta	211	+	68	36		1		13.4
Sta	211	+	68	to	Sta	211	+	72	38		1		16.4
								TOTAL	160	1	2	1	58.7

ACROSS ROAD PIPE CULVERT SCHEDULE

LOCATION				542A5473 PIPE CULV. CLASS A, TY - 1 E.R.S. 18"	542A0226 PIPE CULV. CLASS A, TY - 1 21"	542A0229 PIPE CULV. CLASS A, TY -1 24"	542A5479 PIPE CULV. CLASS A, TY -1 E.R.S. 24"	542A0235 PIPE CULV. CLASS A, TY - 1 30"	54263418 CONC. END SECT. 1:4 STD 542011 E.R.S. 18"	54263424 CONC. END SECT. 1:4 STD 542011 E.R.S. 24"	54213666 PRC. FLD. END SEC STD 542301 21"	54214509 PRC. FLD. END SECT STD 542306 E.R.S. 24"	X0328474 DROP STRUCT.	20900110 POROUS GRANULAR BACKFILL
				FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	CU.YD.
Shannon Rte														
Lt Sta	0	+	18				16.0			1				
Rt Sta	0	+	18				12.0			1				
Sta	12	+	82		60.0						1		1	57.8
Sta	121	+	00			76.0							1	761.3
Sta	177	+	25					70.0					1	218.0
Sta	198	+	43				80.0					2		47.7
Sta	205	+	45				112.0					4		32.9
Sta	211	+	50	66.0					1					16.2
			TOTAL	66.0	60.0	76.0	220.0	70.0	1.0	2.0	1.0	6.0	3.0	1133.9

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	8

SURVEY CONTROL POINTS

NORTHEAST COORDINATES FOR SURVEY CONTROL			
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
10	9999.899	10000.001	100.000
11	10944.704	9892.948	106.174
12	11840.419	9936.491	93.527
13	14040.304	9829.485	113.651
14	14697.171	9844.425	103.056
15	15328.947	10122.952	118.296
16	16647.836	10026.576	135.276
17	17992.539	10056.747	156.566
18	19175.504	9963.494	137.210
19	20622.986	9973.580	74.905
20	21200.194	9908.287	75.026
21	22402.040	9947.723	84.646
22	23326.439	9869.213	55.933
23	24178.287	9912.938	64.118
24	25055.434	9825.245	73.106
25	25396.350	9887.473	77.675
26	25931.772	9791.850	86.726
27	26546.799	9865.206	101.997
28	27313.530	9780.728	122.536
29	28535.445	9832.731	128.823
30	29639.858	9751.976	106.351
31	30847.069	9786.246	93.555
32	31157.718	9709.492	97.190
33	31271.074	9774.618	94.398
34	12023.148	9916.187	94.270
40	20611.212	10607.726	72.717
41	20593.928	9440.637	91.433
42	9999.924	10000.003	99.108
43	13701.964	9877.556	112.658
44	22895.903	9919.098	64.342
45	23306.620	9958.637	48.176
46	31079.205	9976.046	90.970
47	31229.524	9811.024	97.957

PROPOSED HORIZONTAL CURVES

P. I. #6 STA 44+37.31
N = 14463.00
E = 9840.12
I = 18° 48' 31"R
CIRCULAR
Da = 03° 30' 00"
Dc = 03° 30' 02"
T = 271.13
R = 1637.02
L = 537.39
C = 534.98
E = 22.30
M = 22.00

P. I. #7 STA 52+95.33
N = 15286.01
E = 10099.42
I = 19° 14' 28"L
CIRCULAR
Da = 03° 30' 00"
Dc = 03° 30' 02"
T = 277.49
R = 1637.02
L = 549.75
C = 547.17
E = 23.35
M = 23.02

PROPOSED HORIZONTAL CONTROL

P. I. #1 STA 0+00
N = 10040.31
E = 9950.80
COURSE FROM P.I. #1 TO P.I. #2
N01° 25' 00"W - 1566.75 FT

P. I. #2 STA 15+86.75
N = 11626.58
E = 9911.57
I = 00° 01' 37"L
COURSE FROM P.I. #2 TO P.I. #3
N01° 26' 37"W - 999.94 FT

P. I. #3 STA 25+86.69
N = 12626.20
E = 9886.38
I = 00° 02' 54"L
COURSE FROM P.I. #3 TO P.I. #4
N01° 29' 31"W - 1100.00 FT

P. I. #4 STA 36+86.69
N = 13725.83
E = 9857.74
I = 00° 13' 43"R
COURSE FROM P.I. #4 TO P.I. #5
N01° 15' 48"W - 755.11 FT

P. I. #5 STA 39+99.99
N = 14025.79
E = 9850.20
I = 00° 10' 57"R
COURSE FROM P.I. #5 TO P.I. #6
N01° 17' 29"W - 447.32 FT

P. I. #6 STA 44+37.31
N = 14463.00
E = 9840.12
I = 18° 48' 31"R
COURSE FROM P.I. #6 TO P.I. #7
N18° 00' 03"E - 839.08 FT

P. I. #7 STA 52+95.33
N = 15286.01
E = 10099.42
I = 19° 14' 28"L
COURSE FROM P.I. #7 TO P.I. #8
N01° 42' 39"W - 618.67 FT

P. I. #8 STA 58+95.53
N = 15889.41
E = 10080.95
I = 00° 04' 58"R
COURSE FROM P.I. #8 TO P.I. #9
N01° 35' 27"W - 1285.93 FT

P. I. #9 STA 71+81.46
N = 17188.81
E = 10044.65
I = 00° 05' 44"L
COURSE FROM P.I. #9 TO P.I. #10
N01° 41' 10"W - 774.16 FT

P. I. #10 STA 79+55.62
N = 17962.63
E = 10021.87
I = 00° 05' 09"R
COURSE FROM P.I. #10 TO P.I. #11
N01° 36' 01"W - 1025.93 FT

P. I. #11 STA 89+81.55
N = 18988.16
E = 9993.22
I = 00° 16' 06"R
COURSE FROM P.I. #11 TO P.I. #12
N01° 19' 54"W - 1647.44 FT

P. I. #12 STA 106+28.98
N = 20635.15
E = 9954.93
I = 00° 02' 32"L
COURSE FROM P.I. #12 TO P.I. #13
N01° 22' 26"W - 1052.65 FT

P. I. #13 STA 116+81.64
N = 21687.50
E = 9929.69
I = 00° 03' 53"R
COURSE FROM P.I. #13 TO P.I. #14
N01° 18' 34"W - 799.98 FT

P. I. #14 STA 124+81.62
N = 22487.27
E = 9911.41
I = 00° 02' 06"R
COURSE FROM P.I. #14 TO P.I. #15
N01° 16' 28"W - 499.96 FT

P. I. #15 STA 129+81.58
N = 22987.11
E = 9900.29
I = 00° 12' 39"R
COURSE FROM P.I. #15 TO P.I. #16
N01° 03' 49"W - 600.11 FT

P. I. #16 STA 135+81.69
N = 23587.12
E = 9889.15
I = 00° 10' 55"L
COURSE FROM P.I. #16 TO P.I. #17
N01° 14' 44"W - 599.93 FT

P. I. #17 STA 141+81.62
N = 24186.91
E = 9876.11
I = 00° 05' 59"R
COURSE FROM P.I. #17 TO P.I. #18
N01° 08' 45"W - 1000.12 FT

P. I. #18 STA 151+81.74
N = 25186.83
E = 9856.11
I = 00° 03' 28"R
COURSE FROM P.I. #18 TO P.I. #19
N01° 05' 17"W - 999.93 FT

P. I. #19 STA 161+81.67
N = 26186.58
E = 9837.12
I = 00° 04' 49"L
COURSE FROM P.I. #19 TO P.I. #20
N01° 10' 07"W - 700.23 FT

P. I. #20 STA 168+81.90
N = 26886.66
E = 9822.84
I = 00° 08' 56"R
COURSE FROM P.I. #20 TO P.I. #21
N01° 01' 11"W - 1200.37 FT

P. I. #21 STA 180+82.27
N = 28086.84
E = 9801.48
I = 00° 07' 37"R
COURSE FROM P.I. #21 TO P.I. #22
N00° 53' 34"W - 1000.04 FT

P. I. #22 STA 190+82.31
N = 29086.76
E = 9785.90
I = 00° 02' 17"R
COURSE FROM P.I. #22 TO P.I. #23
N00° 51' 17"W - 1200.03 FT

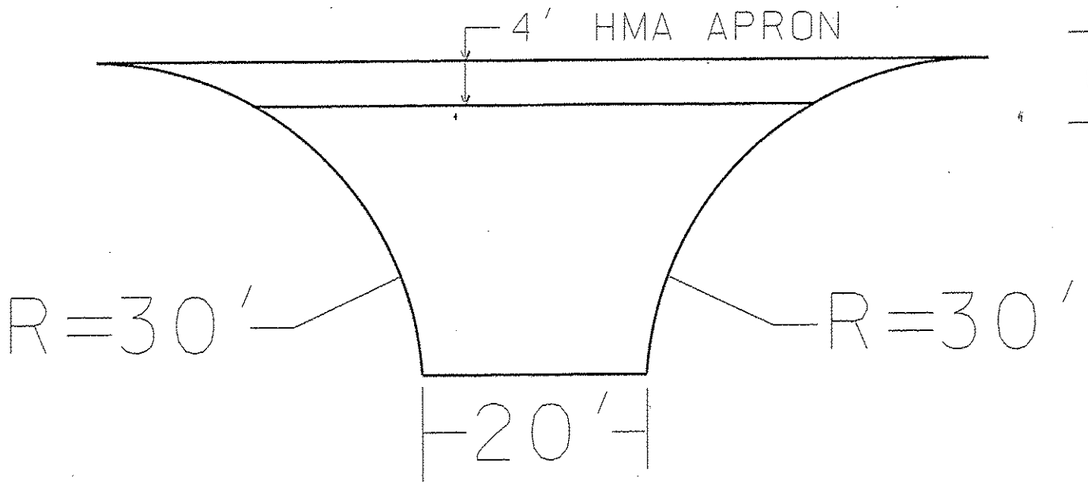
P. I. #23 STA 202+82.34
N = 30286.66
E = 9768.00
I = 00° 02' 34"L
COURSE FROM P.I. #23 TO P.I. #24
N00° 53' 51"W - 199.83 FT

P. I. #24 STA 204+82.18
N = 30486.47
E = 9764.87
I = 00° 09' 04"L
COURSE FROM P.I. #24 TO P.I. #25
N01° 02' 55"W - 697.88 FT

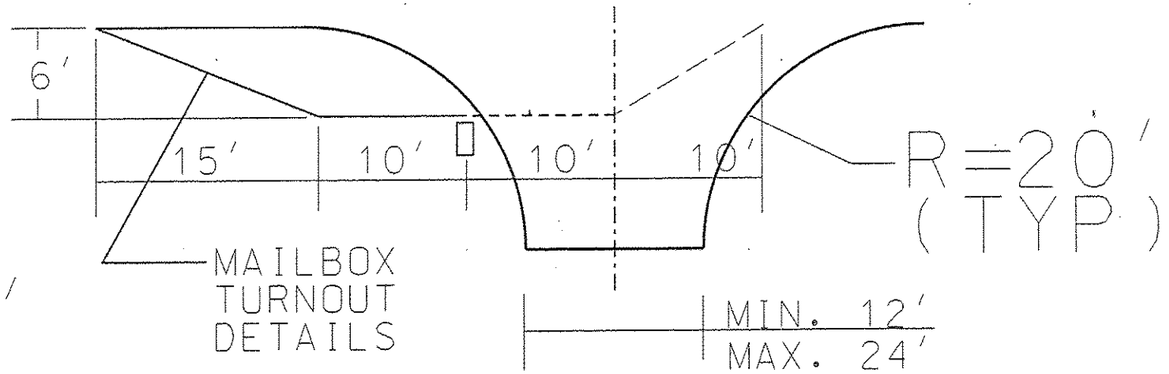
P. I. #25 STA 211+80.06
N = 31184.23
E = 9752.10

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	68	9

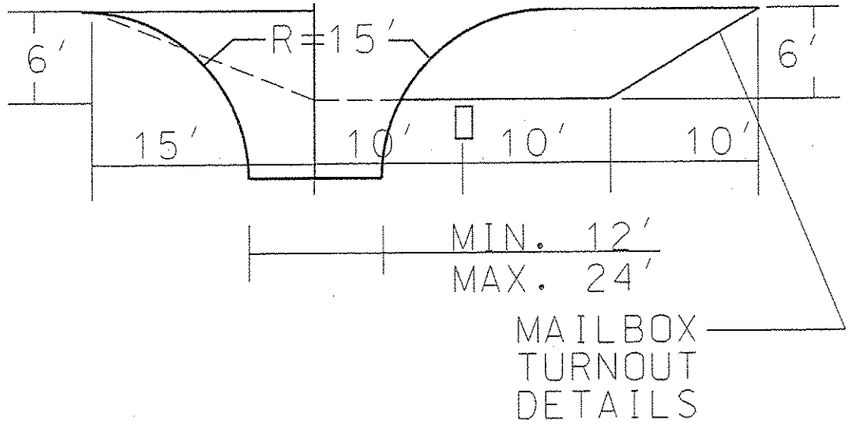
F.E. TY-1 20' THROAT, 8" GRAVEL W/ 4' X 3.5" HMA APRON



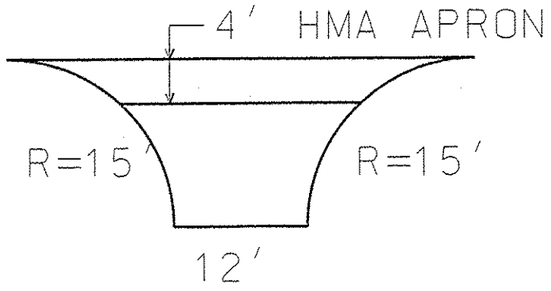
P.E. TY-1 VARIABLE THROAT, 8" GRAVEL W/ 3.5" HMA TO R.O.W.



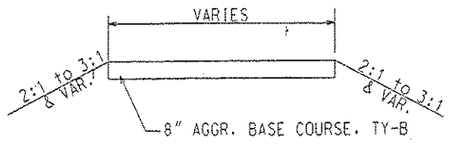
P.E. TY-2 VARIABLE THROAT, 8" GRAVEL W/ 3.5" HMA TO R.O.W.



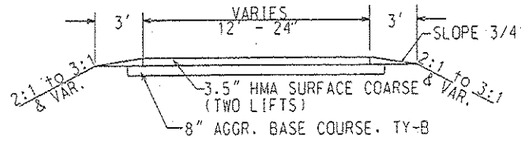
F.E. TY-2, 12' THROAT, 8" GRAVEL W/ 4' X 3.5" HMA APRON



EXISTING
TYPICAL SECTION



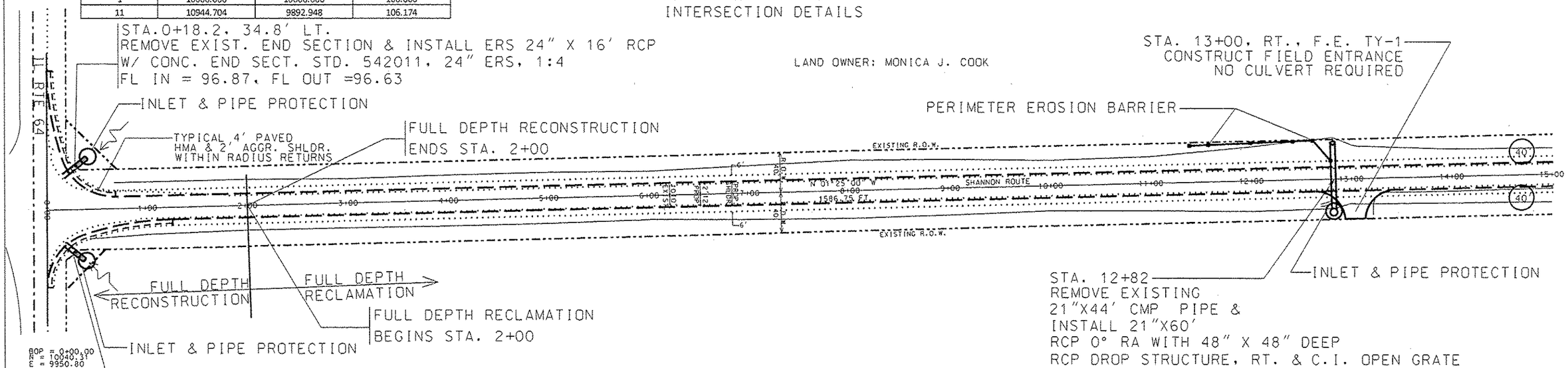
TYPICAL SECTION
SIDE ROAD AND PRIVATE ENTRANCES



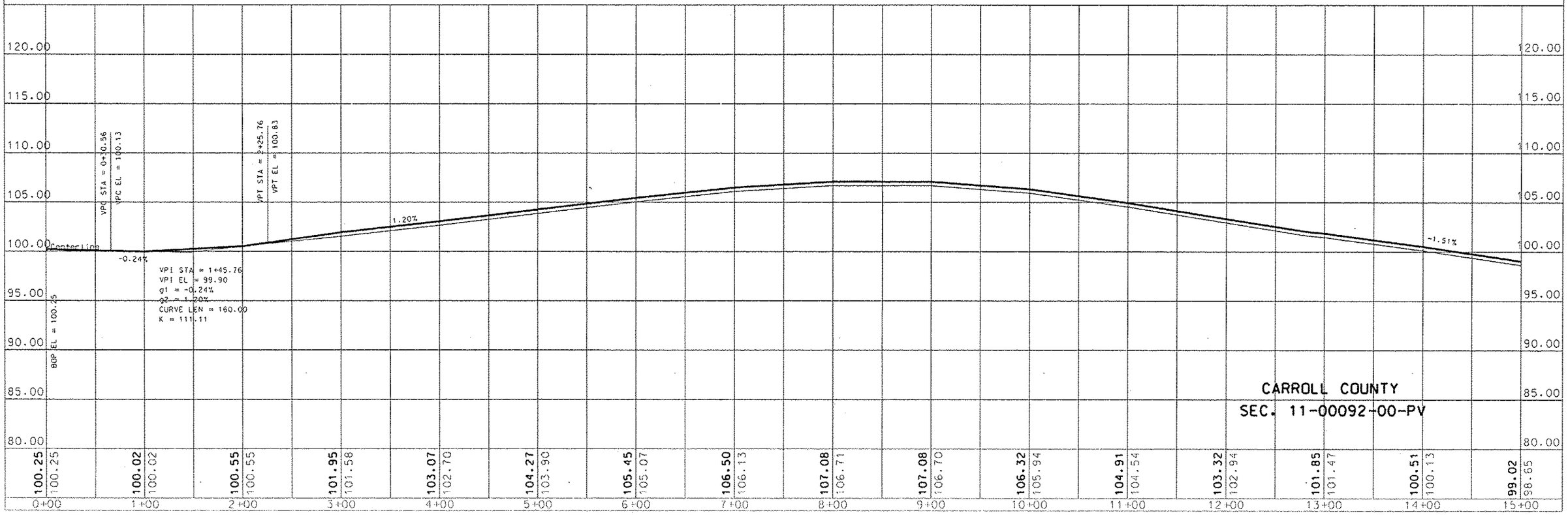
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	10

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	106.174

SEE SHEET #26 FOR
INTERSECTION DETAILS



SCALES:
1" = 100' HOR
1" = 10' VER



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	11

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	106.174

STA. 18+75
REMOVE EXISTING
6'X5.5'X46' REIN. CONC. BOX
INSTALL 7'X 7'x 56'
REINFORCED CONC. BOX
W/ DROP STRUCTURE, RT.
SEE SHEET #27 & 28 FOR DETAILS.
INSTALL 2 8"X10' CMP DRAINS
& CONNECT TO FIELD TILE.

PERIMETER EROSION BARRIER

STA. 21+10, 28' LT., F.E. TY-1
REMOVE EXISTING 15" X 26' CMP
& INSTALL 15" X 46' CMP
WITH FLARED END SECTIONS

INLET & PIPE PROTECTION

PI Sta = 25+86.69
N = 12626.20
E = 9886.38
I = 00°02'54"L

EXISTING R.O.W.

SHANNON ROUTE

N 01°26'37" W
999.94 FT.

INLET & PIPE PROTECTION

STA. 18+00, 30' RT., F.E. TY-1
REMOVE EXISTING 15" X 26' CMP
& INSTALL 15" X 44' CMP
WITH FLARED END SECTIONS

TEMPORARY CONSTRUCTION
EASEMENT, 20' X 50'

STA. 19+76, 32' RT.
REMOVE EXISTING FIELD ENTRANCE
& 15" X 28' CMP

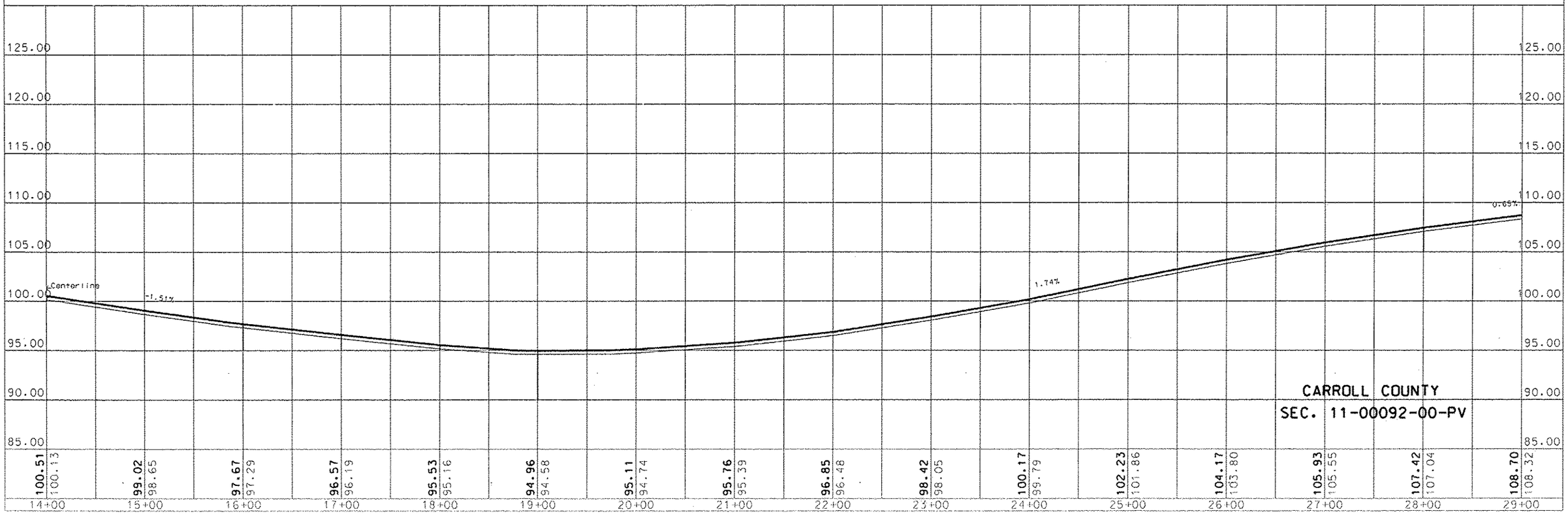
CONNECT 8" X 10' CMP TO EACH FIELD TILE
& INSTALL THRU DROP STRUCTURE WALL

PERIMETER EROSION BARRIER

PI Sta = 15+86.75
N = 11626.58
E = 9911.57
I = 00°01'37"L

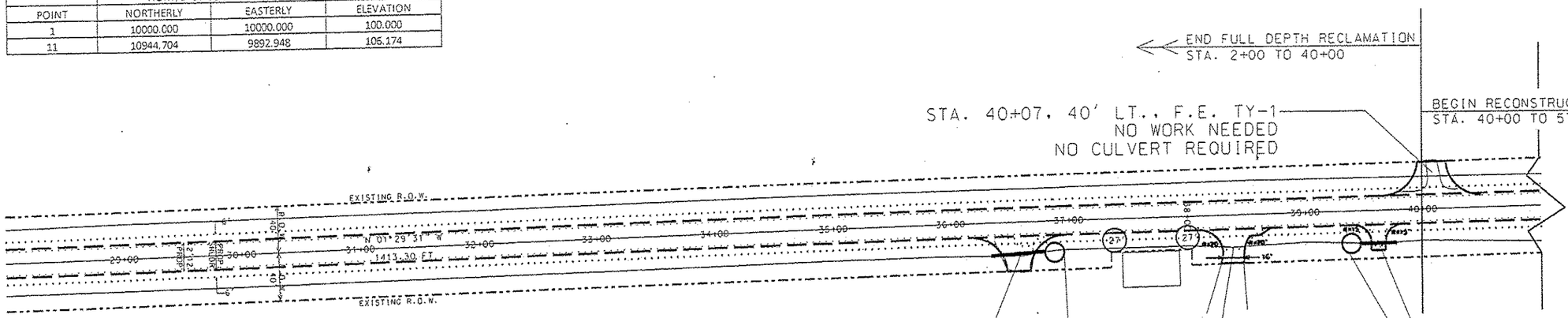
SCALES:
1" = 100' HOR
1" = 10' VER

LAND OWNER: PRISCILLA LUDWIG



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	58	12

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	105.174



END FULL DEPTH RECLAMATION
STA. 2+00 TO 40+00

STA. 40+07, 40' LT., F.E. TY-1
NO WORK NEEDED
NO CULVERT REQUIRED

BEGIN RECONSTRUCTION
STA. 40+00 TO 57+50

STA. 36+59, 32' RT., F.E. TY-1
REMOVE EXISTING 15" X 26' CMP
INSTALL 15" X 48' CMP
WITH FLARED END SECTIONS

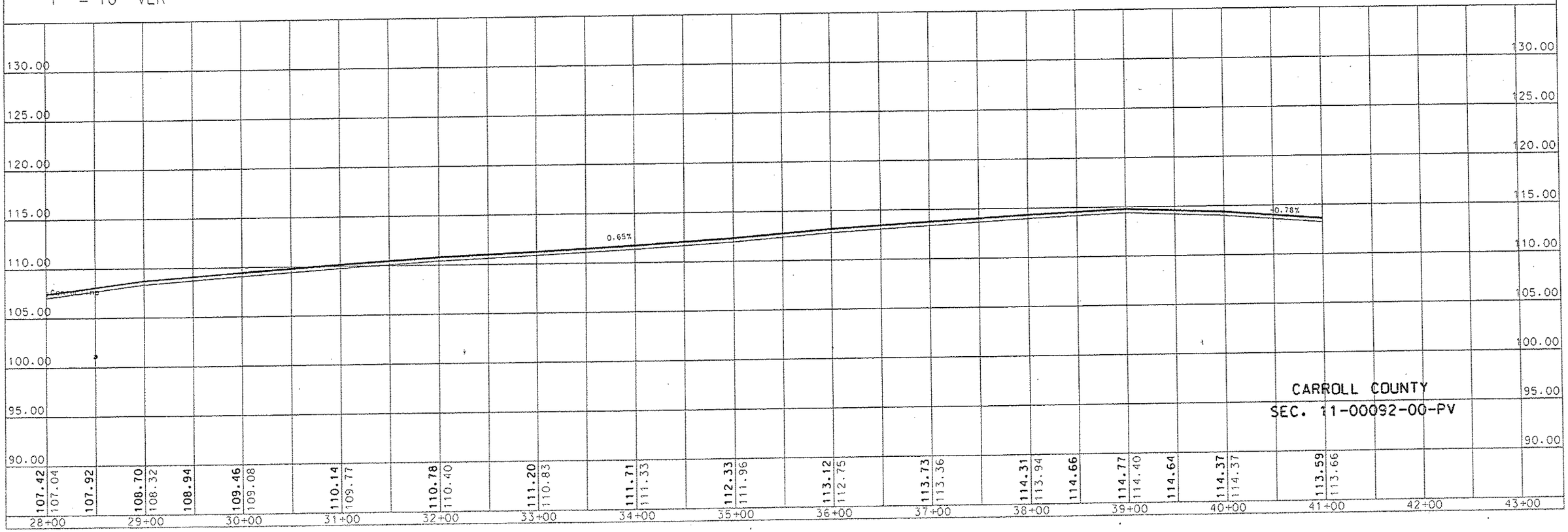
INLET & PIPE PROTECTION

STA. 39+62, 27' RT., F.E. TY-2
REMOVE EXISTING 15" X 24' CMP
& INSTALL 15" X 32' CMP
WITH FLARED END SECTIONS

PI Sta = 39+99.99
N = 14025.79
E = 9850.20
I = 00°10'57"R

STA. 38+39, RT., P.E. TY-1
RECONSTRUCT PRIVATE ENTRANCE,
W/ MAILBOX TURNOUT, NO CULVERT REQUIRED

SCALES:
1" = 100' HOR
1" = 10' VER



CARROLL COUNTY
SEC. 11-00092-00-PV

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	106.174

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	13

STA. 40+00
FULL DEPTH RECLAMATION
(STA. 2+00 TO 40+00) ENDS
FULL DEPTH RECONSTRUCTION
(STA. 40+00 TO 57+50) BEGINS
BEGIN PAV'T REPLACEMENT

EXIST. F.E.
NO WORK PROP.

FULL DEPTH RECLAMATION
STA. 2+00 TO 40+00

BEGIN PAV'T. REPLACEMENT
STA. 40+00 TO 57+50

SCALES:
1" = 100' HOR
1" = 10' VER
0 50 100

PROPOSED CURVE DATA
PI Sta = 44+37.31
N = 14463.00
E = 9840.12
I = 18°48'31"R
CIRCULAR
Do = 03°30'00" S.E. = 0.06'/'
Dc = 03°30'02" N.C. = 40+21.18
T = 271.13 F.S. = 42+11.18
R = 1637.02 F.S. = 46+58.57
L = 537.39 N.C. = 48+48.57
C = 534.98
E = 22.30
M = 22.00

EDGE OF FIELD
PERIMETER EROSION BARRIER
PRIVATE LANE
F.E.
EDGE OF FIELD
EXISTING R.O.W.
6' SHLDR.
24'
6' SHLDR.
N 01°19'15" W 437.32 FT
N 11°29'45" E 867.40 FT
PC Sta = 50+17.84
EXIST. CURVE DATA
PI Sta = 586+96.4
CIRCULAR
Do = 04°00'00" S.E. = 0.035'/'
T = 269.4 N.C. = 583+57.0
R = 1432.4 F.S. = 584+97.0
L = 532.5 F.S. = 588+89.5
E = 21.1 N.C. = 590+29.5

STA. 51+50 TO 54+50, LT.
SPECIAL DITCH
STA. 9+28
END RECONSTRUCTION

LOCUST RD.
F.E.
P.E.
62'
R.O.W.

STA. 53+11, 30' LT.
REMOVE EXIST.
30" ERS X 32' CMP
& INSTALL DOUBLE RUN
18"X82' RCP W/END SECT.
STD. 542301, 18"
FL IN = 115.07
FL OUT = 111.94

R=45' (TYP)
W/ 3' AGGR. SHLDR.
INLET PROTECTION

STA. 46+73
REMOVE EXISTING
10'X6'X42' R.C. BOX
INSTALL 10'X7'X64'-0"
REINF. CONC. BOX CULV.
SEE SHEET #29 FOR DETAILS

BEGIN REALIGNMENT
STA. 41+66.18

PERIMETER EROSION BARRIER

EXIST. CURVE DATA
PI Sta = 579+30.3
CIRCULAR
Do = 04°00'00" S.E. = 0.035'/'
T = 267.0 N.C. = 575+83.3
R = 1432.4 F.S. = 577+33.3
L = 527.9 F.S. = 581+21.2
E = 24.7 N.C. = 582+61.2

PC Sta = 41+66.18
PT Sta = 47+03.57

PROPOSED CURVE DATA
PI Sta = 52+95.33
N = 15286.01
E = 10099.42
I = 19°14'28"L
CIRCULAR
Do = 03°30'00" S.E. = 0.06'/'
Dc = 03°30'02" N.C. = 48+72.82
T = 277.49 F.S. = 50+62.82
R = 1637.02 F.S. = 55+22.59
L = 549.75 N.C. = 57+12.59
C = 547.17
E = 23.35
M = 23.02

STA. 53+23, SHANNON ROUTE
= STA. 10+00 LOCUST RD.

STA. 10+65
END RECONSTRUCTION

BGP EL = 114.37
VPI STA = 42+16.70
VPI EL = 112.73
g1 = -0.76%
g2 = 2.20%
CURVE LEN = 295.57
K = 205.18
E = 0.53
Centerline
VPC STA = 40+68.91
VPC EL = 113.85
VPC STA = 43+66.26
VPC EL = 109.39
VPT STA = 43+64.48
VPT EL = 109.48
2.20%
P STA = 46+54.29
LP EL = 106.25
VPI STA = 46+80.45
VPI EL = 102.52
g1 = -2.20%
g2 = 2.60%
CURVE LEN = 624.37
K = 130.03
E = 3.75
VPI STA = 49+92.63
VPT EL = 110.65
2.60%
VPC STA = 51+16.38
VPC EL = 113.87
VPI STA = 53+18.22
VPI EL = 119.12
g1 = 2.60%
g2 = 1.08%
CURVE LEN = 403.48
K = 264.21
E = 0.77
1.08%

CARROLL COUNTY
SEC. 11-00092-00-PV

130.00 125.00 120.00 115.00 110.00 105.00 100.00 95.00 90.00

114.37 114.37 113.59 113.66 113.07 112.43 112.73 111.67 110.79 110.92 109.79 108.73 108.68 107.85 107.16 106.90 106.66 106.36 105.89 106.25 106.33 106.10 106.60 107.06 107.15 107.72 108.57 108.95 109.61 110.84 111.48 112.14 113.44 114.19 114.72 115.91 116.18 117.01 118.01 118.10 118.92 119.73 119.51 120.44 121.07 121.01

40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 52+00 53+00 54+00 55+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	14

	NORTH/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	106.174

END PAV'T. REPLACEMENT
STA. 40+00 TO 57+50

FULL DEPTH RECLAMATION
STA. 57+50 TO 210+50

PI Sta = 55+25.72

PI Sta = 58+95.53
N = 15889.41
E = 10080.95
I = 00°04'58"R

EXISTING R.O.W.

N 01° 42' 39" W
600.2 FT

N 01° 38' 27" W
1285.93

EXISTING R.O.W.

STA. 66+45, 30' LT., F.E. TY-1
REMOVE EXISTING 15" X 28' CMP
& INSTALL 15" X 46' CMP
WITH FLARED END SECTIONS

STA. 57+50
FULL DEPTH RECONSTRUCTION
(STA. 40+00 TO 57+50) ENDS
FULL DEPTH RECLAMATION
(STA. 57+50 TO 210+50) BEGINS

STA. 65+32, 26' RT., P.E. TY-1
REMOVE EXISTING 15" X 30' CMP
& INSTALL 15" X 32' CMP
WITH FLARED END SECTIONS

SCALES:
1" = 100' HOR
1" = 10' VER

1.07%

1.83%

centerline

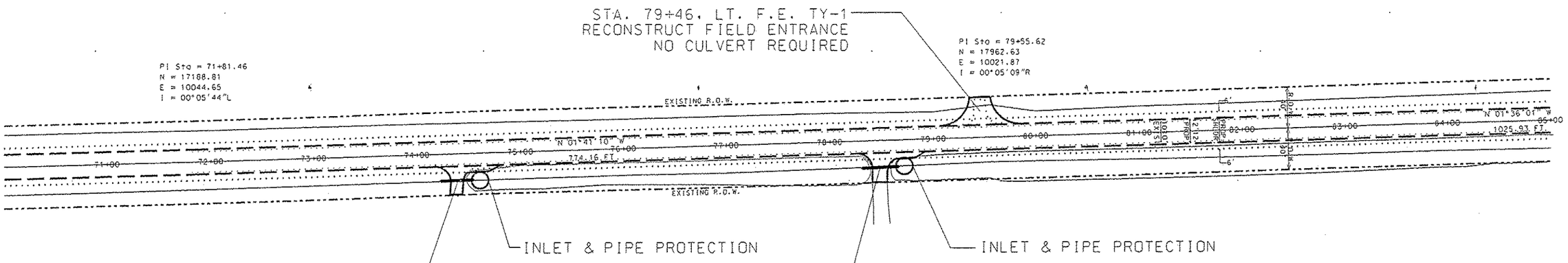
CARROLL COUNTY
SEC. 11-00092-00-PV

140.00	135.00	130.00	125.00	120.00	115.00	110.00	105.00	100.00

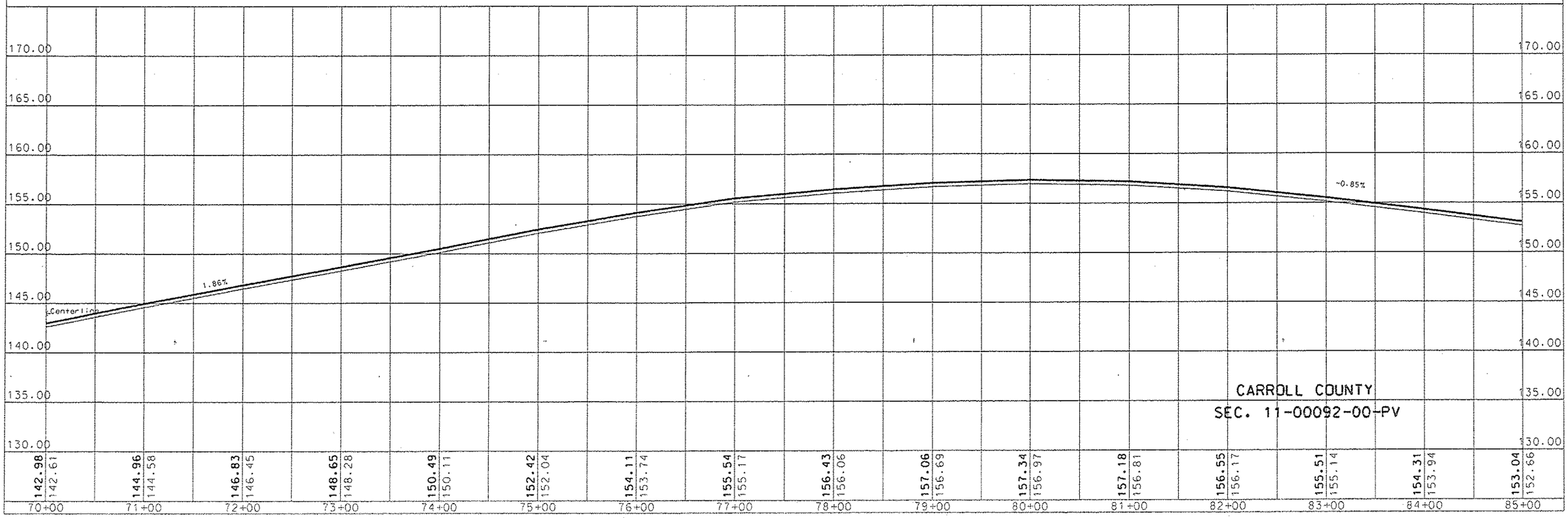
54+00	55+00	56+00	57+00	58+00	59+00	60+00	61+00	62+00	63+00	64+00	65+00	66+00	67+00	68+00	69+00
119.73	120.44	121.07	121.61	122.15	122.69	123.22	124.90	126.11	127.31	128.57	129.90	131.29	132.57	133.99	135.54	137.25	139.08	140.92
119.51		121.01		122.05		123.25	124.53	125.74	126.93	128.19	129.52	130.92	132.20	133.62	135.17	136.87	138.71	140.54

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	60	15

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	105.174

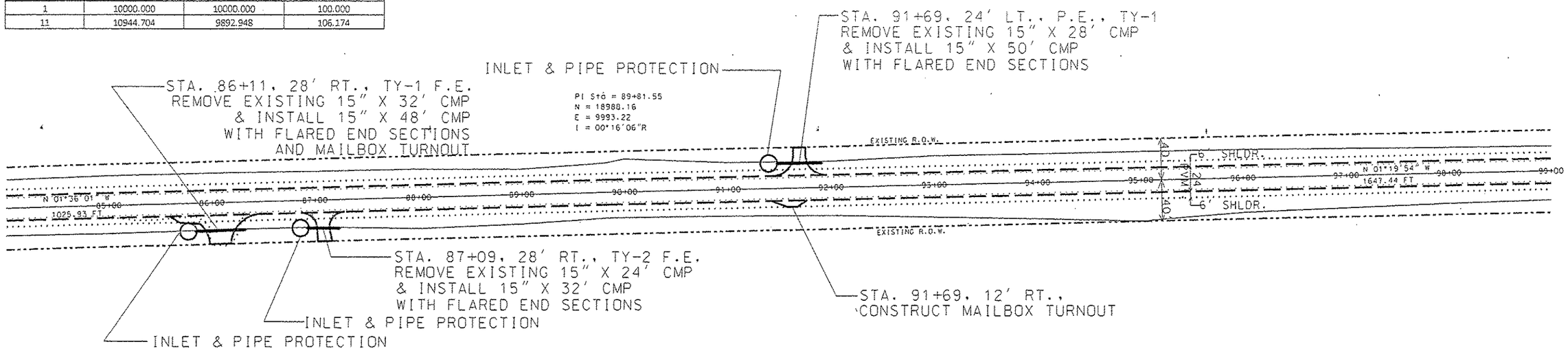


SCALES:
1" = 100' HOR
1" = 10' VER

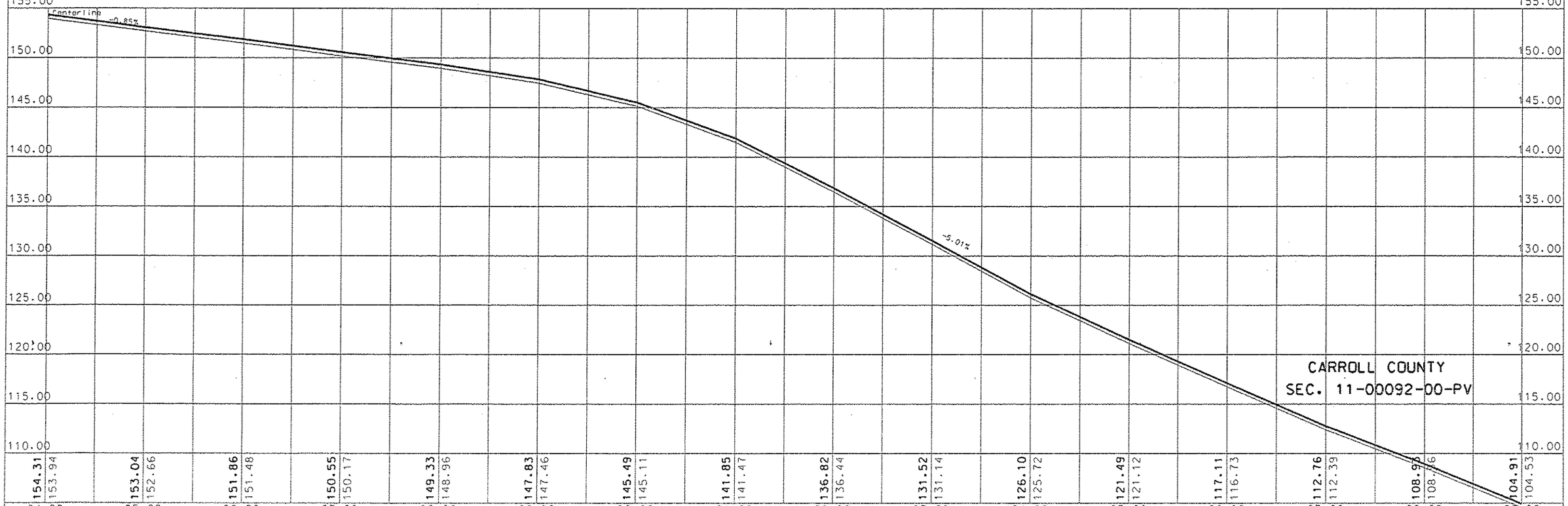


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	58	16

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	106.174



SCALES:
1" = 100' HOR
1" = 10' VER



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	17

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	106.174

STA. 9+44
END CONSTRUCTION

STA. 106+00, 29' LT.
REMOVE EXISTING 30" X 30' CMP
& INSTALL 30" X 64' RCP
WITH FLARED END SECTIONS

INLET & PIPE PROTECTION

R=45' (TYP)
W/ 3' AGGR. SHLDR.

STRADDLE CREEK ROAD

66' R.O.W.

PI Sta = 106+28.98
N = 20635.15
E = 9954.93
I = 00°02'32"L

STA. 111+93, 24' LT., TY-1 F.E.
REMOVE EXISTING 15" X 26' CMP
& INSTALL 15" X 48' CMP
WITH FLARED END SECTIONS

PERIMETER EROSION BARRIER

STA. 108+28
EXISTING BOX CULV. TO REMAIN

R=45' (TYP)
W/ 3' AGGR. SHLDR.

3' 20' 3'

EXISTING R.O.W.

40'

6' SHLDR.

24' PVMT.

6' SHLDR.

EXISTING R.O.W.

R 01°22'26" W

1052.65 FT

99+00 100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00 112+00 113+00

R=45' (TYP)
W/ 3' AGGR. SHLDR.

INLET & PIPE PROTECTION

STA. 106+02, 28' RT.
REMOVE EXISTING 18" X 34' CMP
& INSTALL 30" X 64' RCP
WITH FLARED END SECTIONS

STA. 10+58
END CONSTRUCTION

66' R.O.W.

STRADDLE CREEK ROAD

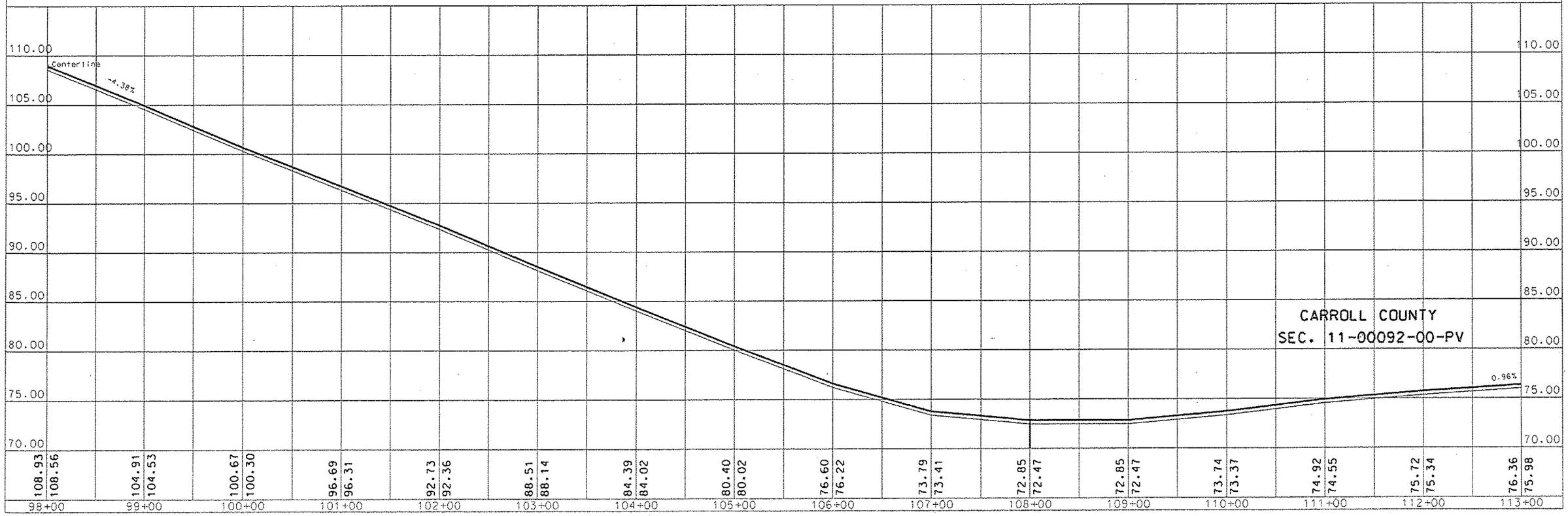
STA. 106+00, SHANNON ROUTE
= STA. 10+00 STRADDLE CREEK RD.

PERIMETER EROSION BARRIER

STA. 111+88, 26' RT., TY-1 P.E.
REMOVE EXISTING 15" X 58' CMP
& INSTALL 15" X 64' CMP
WITH FLARED END SECTIONS

INLET & PIPE PROTECTION

SCALES:
1" = 100' HOR
1" = 10' VER



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	18

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	106.174

LAND OWNER: JAMES RUTER

PI Sta = 116+81.64
N = 21687.50
E = 9929.69
I = 00°03'53"R

PERIMETER EROSION BARRIER

STA. 123+69, LT., TY-1 F.E.
RE-CONSTRUCT P.E. ENTRANCE
NO CULVERT REQUIRED

PI Sta = 124+81.62
N = 22487.27
E = 9911.41
I = 00°02'06"R

EXISTING R.O.W.

N 01°18'34" W
799.98 FT

EXISTING R.O.W.

INLET & PIPE PROTECTION

STA. 113+46, 29' RT., TY-1 F.E.
REMOVE EXISTING 21" X 32' CMP
& INSTALL 24" X 48' CMP
WITH FLARED END SECTIONS

SCALES:
1" = 100' HOR
1" = 10' VER

LAND OWNER: BRIAN SCHOENY

STA. 121+00
REMOVE EXISTING
24" X 66' CMP &
INSTALL 24"X76'
RCP W 48" X 6'
DROP STRUCTURE
& C.I. OPEN GRATE, RT.
FL IN = 70.94
FL OUT = 70.20
WEIR ELEV. = 76.44

TEMPORARY CONSTRUCTION
EASEMENT, 20' X 50'

PERIMETER EROSION BARRIER

STA. 123+97, RT., CONSTRUCT
TY-1 F.E. W/M.B. TURNOUT
NO CULVERT REQUIRED

0.96%

-4.31%

CARROLL COUNTY
SEC. 11-00092-00-PV

112+00	113+00	114+00	115+00	116+00	117+00	118+00	119+00	120+00	121+00	122+00	123+00	124+00	125+00	126+00	127+00
75.72	76.36	77.35	78.34	79.25	80.19	81.19	82.02	82.49	83.12	83.98	84.51	84.11	82.25	79.03	74.83
75.34	75.98	76.98	77.96	78.87	79.82	80.81	81.65	82.11	82.74	83.61	84.14	83.74	81.88	78.65	74.45

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	19

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	105.174

STA. 131+03, 32' LT., TY-1 F.E.
REMOVE EXISTING 21" X 32' CMP
& INSTALL 24" X 48' CMP
WITH FLARED END SECTIONS

PERIMETER EROSION BARRIER

INLET & PIPE PROTECTION

EXISTING R.O.W.

INLET & PIPE PROTECTION
STA. 129+07, 29' RT., TY-1 P.E.
REMOVE EXISTING 15" X 32' CMP
& INSTALL 15" X 48' CMP
WITH FLARED END SECTIONS

PI Sta = 129+81.58
N = 22987.11
E = 9900.29
Δ = 00°12'39"R

N 01°16'28" W
499.96 FT

STA. 132+71
EXISITNG BOX CULVERT
TO REMAIN IN PLACE
(REPLACED IN 2012)

RR CROSSING: STA. 136+47 TO 136+54
CROSSING SURFACE TO BE WIDENED AND RENEWED
FULL WIDTH OF NEW ROADWAY BY R.R. CO.
CROSSING PROTECTION DEVICES TO BE REPLACED BY R.R. CO.
TO PROVIDE CROSSING WIDTH CONSISTANT W/ PROP. ROADWAY IMPROVEMENT

PI Sta = 135+81.69
N = 23587.12
E = 9889.15
Δ = 00°10'55"L

STA. 133+21, 12' LT.
CONSTRUCT TY-1 F.E.
NO CULVERT REQUIRED

N 01°03'49" W
620.11 FT

PERIMETER EROSION BARRIER

STA. 135+61, 12' RT.
CONSTRUCT TY-1 F.E.
NO CULVERT REQUIRED

R.R. R.O.W.
100'

FLASHING LIGHTS & GATES

STA. 138+21, 29' RT., TY-1 P.E.
REMOVE EXISTING 15" X 32' CMP
& INSTALL 15" X 36' CMP
WITH FLARED END SECTIONS
AND MAILBOX TURNOUT

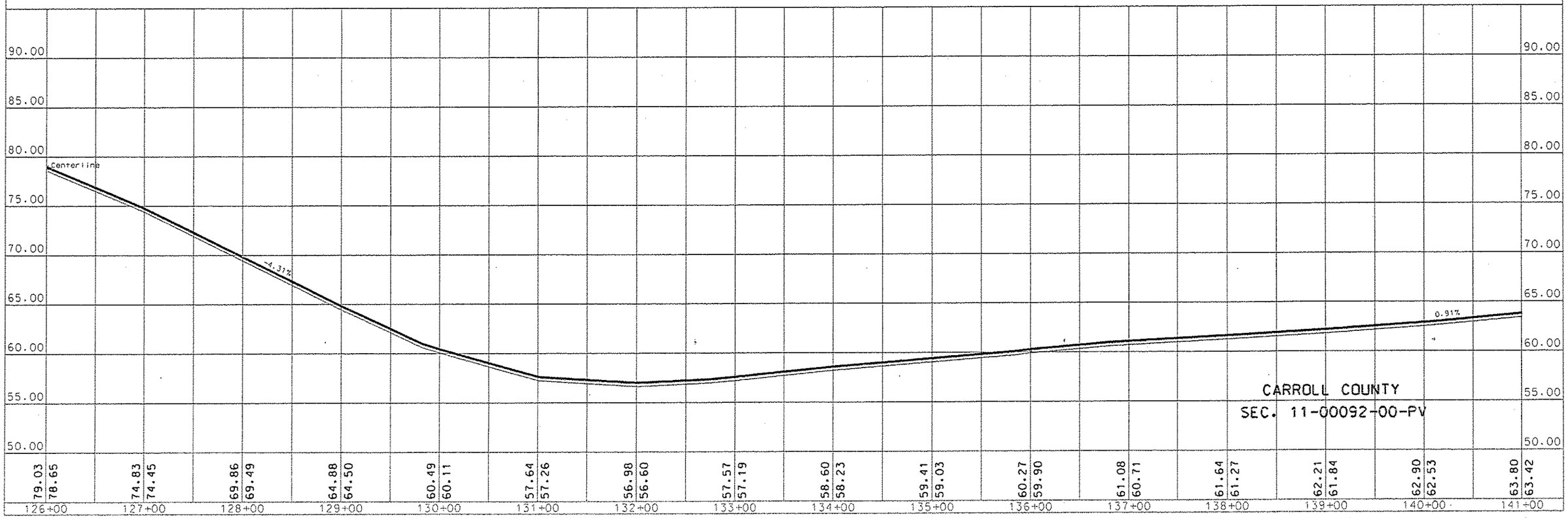
INLET & PIPE PROTECTION
STA. 140+17, 29' LT., TY-1 F.E.
REMOVE EXISTING 15" X 32' CMP
& INSTALL 15" X 50' CMP
WITH FLARED END SECTIONS

N 01°14'44" W
599.93 FT

STA. 138+50 TO 139+50
SPECIAL DITCH
INLET & PIPE PROTECTION

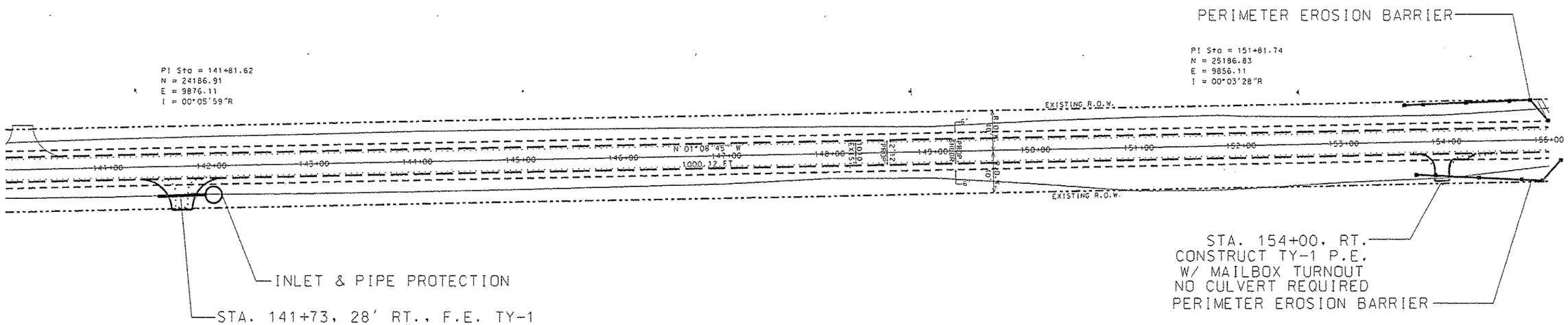
STA. 140+00, 12' RT.
CONSTRUCT MAILBOX TURNOUT

SCALES:
1" = 100' HOR
1" = 10' VER

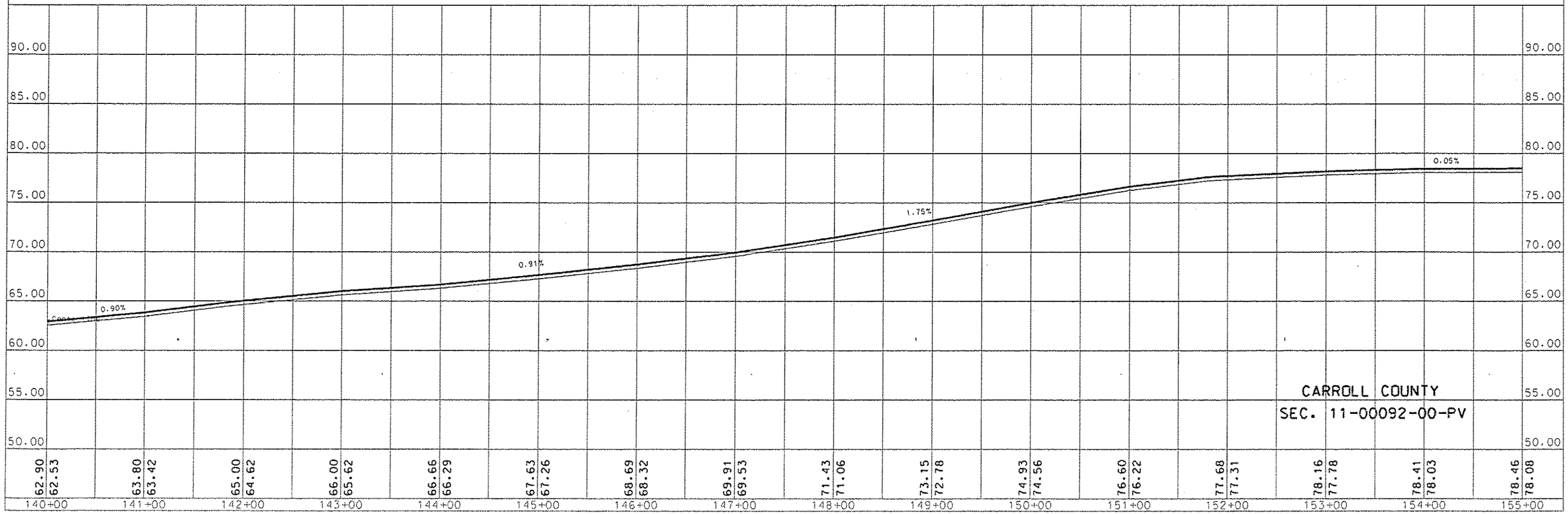


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
76	11-00092-00-PV	CARROLL	66	20

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	106.174



SCALES:
1" = 100' HOR
1" = 10' VER



F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	66	21

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	106.174

PERIMETER EROSION BARRIER

STA. 155+02
EXISTING CULVERT TO
REMAIN IN PLACE

50' R.O.W.

GEORGETOWN ROAD

STA. 158+96, 28' LT.
REMOVE EXISTING 18" X 58' CMP
& INSTALL 24" X 72' RCP
WITH FLARED END SECTIONS

STA. 9+60
END CONSTRUCTION

INLET & PIPE PROTECTION

PI Sta = 161+81.67
N = 26186.56
E = 9837.12
I = 00°04'49"L

R=45' (TYP)
W/ 3' AGGR. SHLDR.

3' 25' 3'

N 01°05'17" W
999.93 FT

R=45' (TYP)
W/ 3' AGGR. SHLDR.

3' 20' 3'

R=45' (TYP)
W/ 3' AGGR. SHLDR.

STA. 10+40
END CONSTRUCTION

PERIMETER EROSION BARRIER

STA. 159+06. SHANNON ROUTE
= STA. 10+00 GEORGETOWN RD.

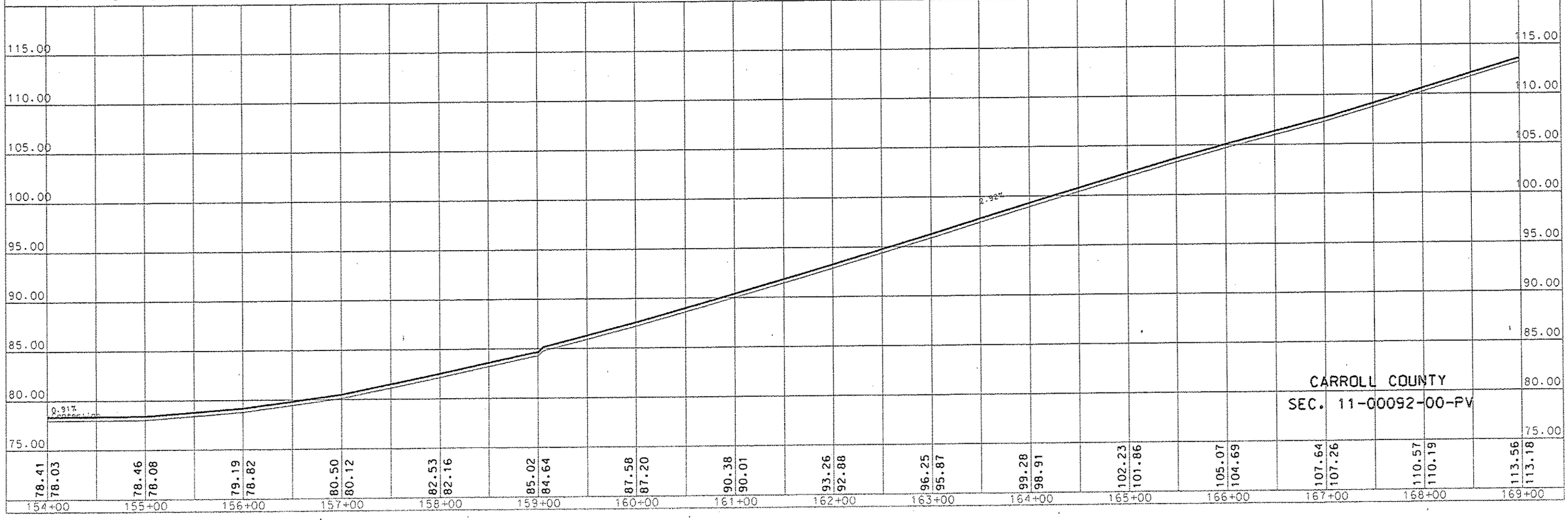
STA. 165+42, 28' RT.
REMOVE EXISTING 15" X 28' CMP
& INSTALL 15" X 46' CMP
WITH FLARED END SECTIONS

PERIMETER EROSION BARRIER

N 01°10'07" W
700.23 FT

INLET & PIPE PROTECTION

SCALES:
1" = 100' HOR
1" = 10' VER



CARROLL COUNTY
SEC. 11-00092-00-PV

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	22

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	106.174

PERIMETER EROSION BARRIER

STA. 174+74, LT.
REMOVE EXIST. F.E.
REMOVE EXIST. 15" X 28' CMP

STA. 173+08, LT.
CONSTRUCT TY-1 F.E.
NO CULVERT REQUIRED

STA. 177+25
REMOVE EXISTING
2'X2'X41' RC BOX CULV
INSTALL 30"X70'
RCP WITH
60" BY 48" DEEP
DROP STRUCTURE, RCP, RT.
FL IN = 113.15
FL OUT = 112.43
WEIR = 116.45

PI Sta = 168+81.90
N = 26886.66
E = 9822.84
I = 00°08'56"R

PI Sta = 180+82.27
N = 28086.84
E = 9801.48
I = 00°07'37"R

EXISTING R.O.W.

N 01°01'11" W
1200.37 FT

STA. 176+45, 29' RT.
CONSTRUCT TY-1 F.E.
REMOVE EXISTING 15" X 28' CMP
& INSTALL 15" X 46' CMP
WITH FLARED END SECTIONS

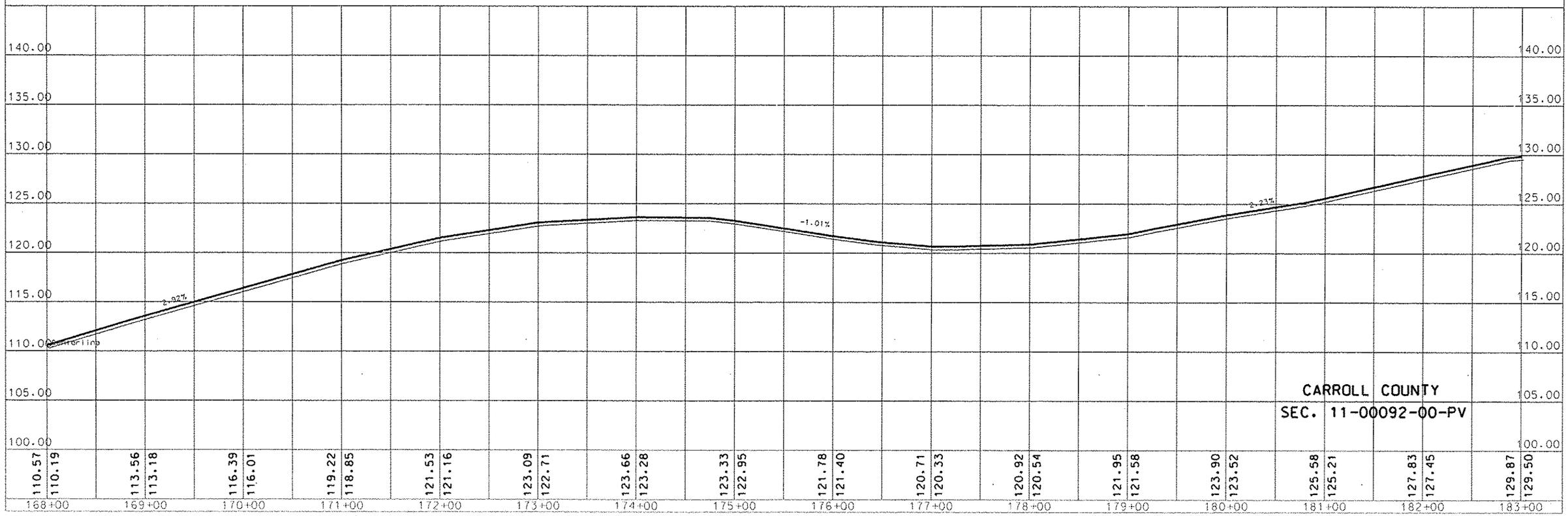
INLET & PIPE PROTECTION

STA. 179+26, 27' RT.
CONSTRUCT TY-2 P.E.
REMOVE EXISTING 15" X 24' CMP
& INSTALL 15" X 32' CMP
WITH FLARED END SECTIONS

INLET & PIPE PROTECTION

STA. 182+08, 25' RT.
CONSTRUCT TY-2 P.E.
REMOVE EXISTING 15" X 28' CMP
& INSTALL 15" X 36' CMP
WITH FLARED END SECTIONS

SCALES:
1" = 100' HOR
1" = 10' VER



F.A.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	68	23

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
1	10000.000	10000.000	100.000
11	10944.704	9892.948	106.174

STA. 185+14. LT.
INSTALL TY-1 F.E.
W/ MAILBOX TURNOUT
NO CULVERT REQUIRED

PERIMETER EROSION BARRIER

PI Sta = 190+82.31
N = 29086.76
E = 9785.90
I = 00°02'17"R

STA. 196+43.40° RT AHD.
REMOVE EXISTING 24" E.R.S. X 68' CMP
& INSTALL 24" E.R.S. X 80' RCP
WITH FLARED END SECTIONS. RT. & LT.

INLET & PIPE PROTECTION

PERIMETER EROSION BARRIER

STA. 196+41, LT.
INSTALL TY-1 F.E.
NO CULVERT REQUIRED

EXISTING R.O.W.

N 00°53'34" W
1000.04 FT.

R=50' (TYP)
W/ 3' AGGR. SHLDR.
STA. 10+40
END CONSTRUCTION

R=50' (TYP)
W/ 3' AGGR. SHLDR.

STA. 182+85, 25' RT.
REMOVE EXISTING FIELD
ENTRANCE AND CULVERT

DIVISION STREET

STA. 185+66. SHANNON ROUTE
= STA. 10+00 DIVISION STREET

STA. 187+71, 28' RT.
CONSTRUCT TY-2 F.E.
REMOVE EXISTING 15" X 22' CMP
& INSTALL 15" X 32' CMP
WITH FLARED END SECTIONS

INLET & PIPE PROTECTION

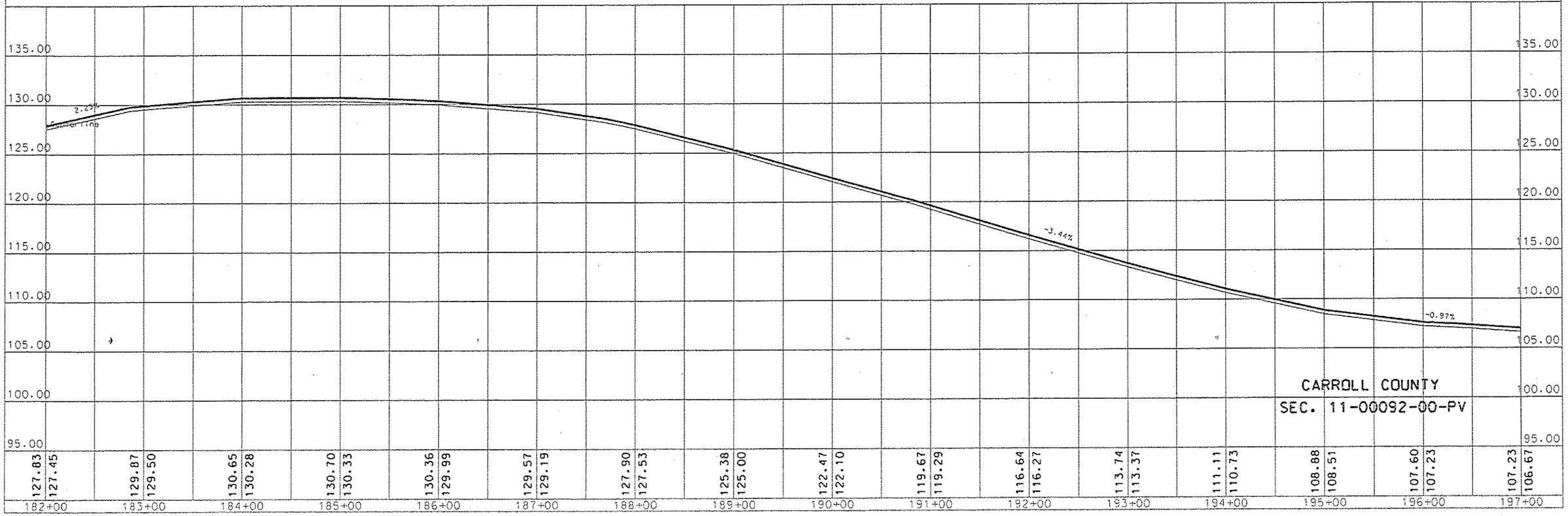
STA. 191+33, RT.
OVERLAY EXISTING SIDEROAD
& INSTALL 15" METAL END SECTIONS
TO EXISTING 15" CMP

INLET & PIPE PROTECTION

STA. 193+19, 27' RT.
REMOVE EXISTING F.E.
& EXISTING CMP

STA. 196+00, 27' RT.
CONSTRUCT TY-1 F.E.
REMOVE EXISTING 15" X 46' CMP
& INSTALL 15" X 48' CMP
WITH FLARED END SECTIONS

SCALES:
1" = 100' HOR
1" = 10' VER



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	68	24

NORTH/EAST COORDINATES FOR SURVEY CONTROL			
POINT	NORTHERLY	EASTERLY	ELEVATION
30	29639.8584	9751.975812	106.35
31	30847.06934	9786.246492	93.55

BEGIN PAV'T. REPLACEMENT
STA. 201+00 TO 211+80

FULL DEPTH RECLAIMATION
STA. 57+50 TO 201+00

STA. 199+00 TO 201+00 - FINISH GRADE RECLAIMED MATERIAL TO PROPOSED GRADES

INLET & PIPE PROTECTION

SEE SHEET #23 FOR DETAILS

STA. 201+00
FULL DEPTH RECLAMATION (STA. 57+50 TO 201+00) ENDS
FULL DEPTH RECONSTRUCTION (STA. 201+00 TO 211+80) BEGINS

PERIMETER EROSION BARRIER

STA. 197+20, 30' RT.
INSTALL TY-1 F.E.
NO CULVERT REQUIRED

STA. 203+22, RT. TY-1 P.E.
REMOVE EXISTING 15" X 18' CMP
NO CULVERT REQUIRED

STA. 204+06, 23.2' RT.
CONSTRUCT TY-1 P.E.
REMOVE EXISTING 15" X 22' CMP &
INSTALL 12" X 32' CMP W/ FLARED END SECTIONS & MAILBOX TURNOUT

STA. 204+89, 26' RT. CONSTRUCT TY-2 F.E.
REMOVE EXISTING 15" X 22' CMP
& INSTALL 15" X 32' CMP
WITH FLARED END SECTIONS

STA. 205+45
REMOVE EXISTING
30" E.R.S. X 38' CMP &
INSTALL DOUBLE RUN
24" E.R.S. X 56'
RCP CULVERT W/ 4 FLARED ENDS
STANDARD 542301
FL IN = 89.01
FL OUT = 88.73

PI Sta = 202+82.34
N = 30286.66
E = 9768.00
I = 00°02'34"L

STA. 203+80, 24' RT.
REMOVE TREE

INLET & PIPE PROTECTION

PERIMETER EROSION BARRIER

STA. 207+15, 16' RT.
CONSTRUCT MAILBOX TURNOUT

STA. 208+29, 27' RT.
REMOVE EXISTING 15" X 28' CMP
& INSTALL 15" X 72' RCP
WITH FLARED END SECTIONS

PI Sta = 204+82.18
N = 30486.47
E = 9764.87
I = 00°09'04"L

PERIMETER EROSION BARRIER
STA. 209+72, RT. P.E. TY-1
STA. 210+05, RT. P.E. TY-1
RECONSTRUCT ENTRANCE
NO CULVERTS REQUIRED

PAVED SHOULDER, SPECIAL

STA. 209+12, 24' RT.
REMOVE EXISTING 12" X 24' CMP
& INSTALL 12" X 38' CMP
WITH FLARED END SECTIONS

R=45 (TYP.) W/3' AGGR. SHLDR.

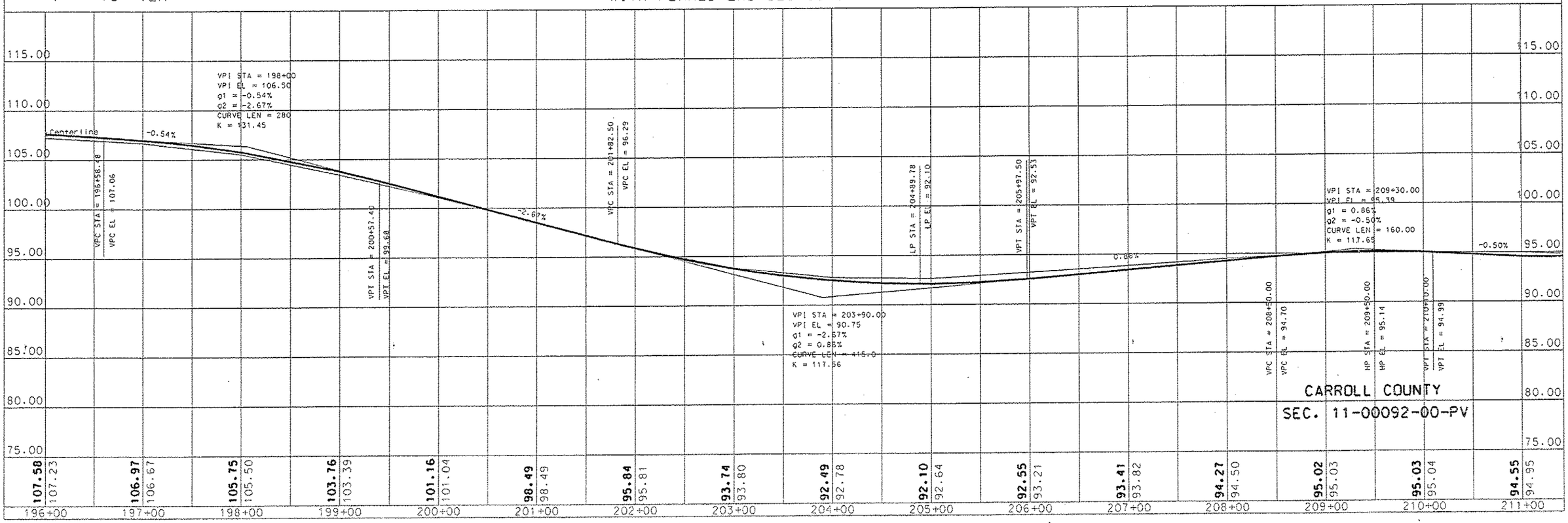
DITCH, SPECIAL

INLET & PIPE PROTECTION

STA. 10+40, ARCH STREET END CONSTRUCTION

STA. 208+29, SHANNON ROUTE = STA. 10+00 ARCH STREET

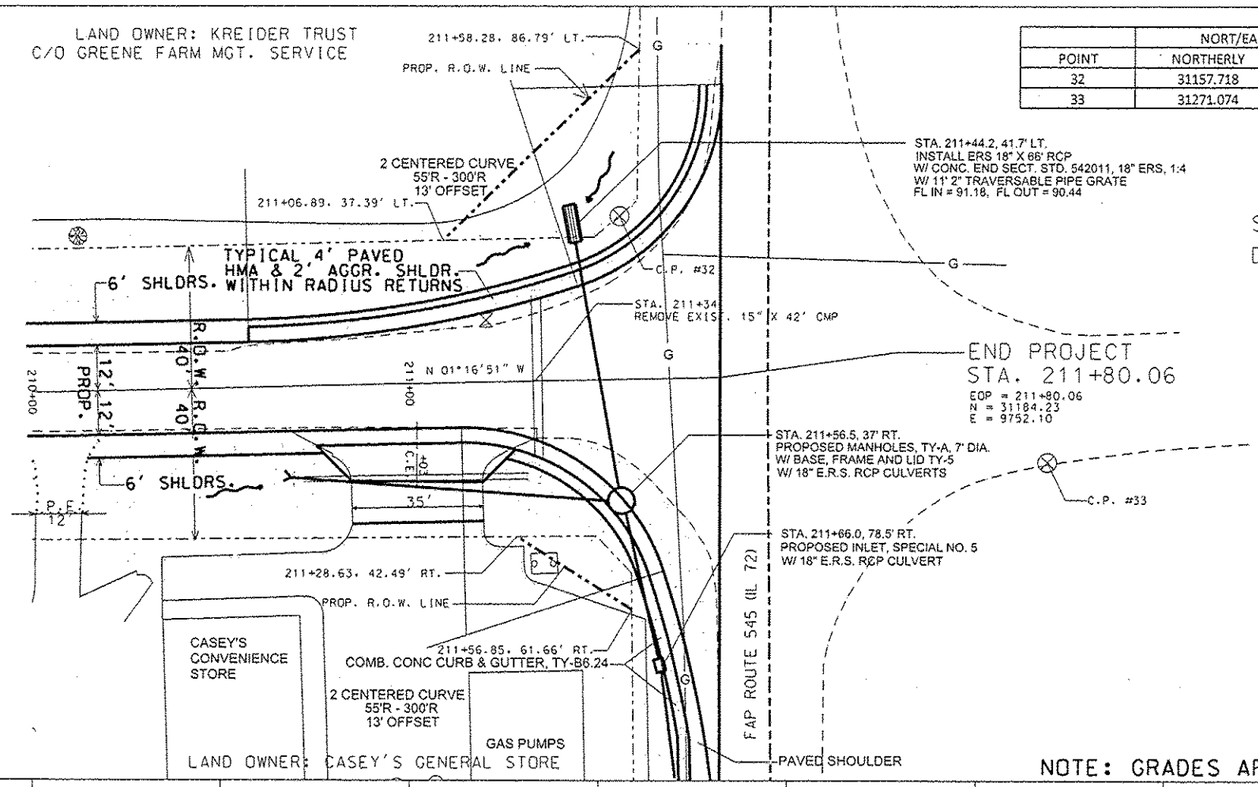
SCALES:
1" = 100' HOR
1" = 10' VER



CARROLL COUNTY
SEC. 11-00092-00-PV

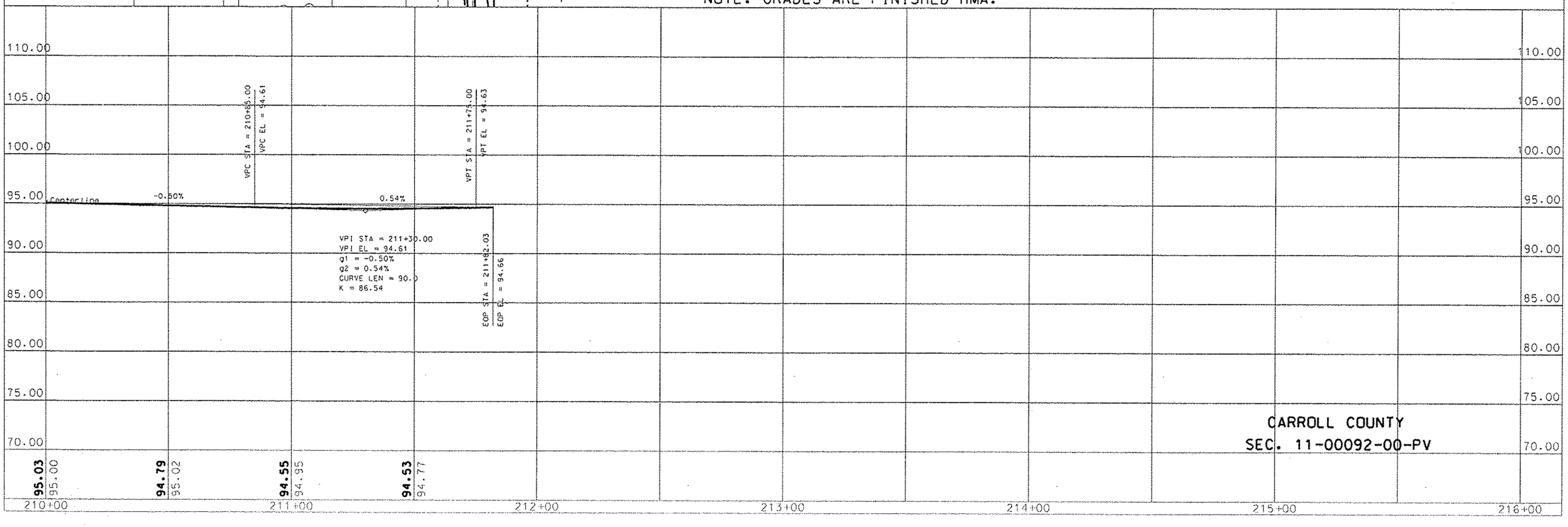
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	25

	NORT/EAST COORDINATES FOR SURVEY CONTROL		
POINT	NORTHERLY	EASTERLY	ELEVATION
32	31157.718	9709.492	97.190
33	31271.074	9774.618	94.398



SCALES:
1" = 40' HOR
1" = 10' VER

NOTE: GRADES ARE FINISHED HMA.



CARROLL COUNTY
SEC. 11-00092-00-PV

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	26

STA.0+18.2, 34.8' LT.
REMOVE EXIST. END SECT & INSTALL
CONC END SECT. STD. 542011. 24" ERS. 1:4
W/ 11' 2" TRAVERSABLE PIPE GRATE
INSTALL 24" ERS X 16' RCP
FL IN = 96.87. FL OUT =96.63

STA.0+18.5, 35.1' RT.
REMOVE EXIST. END SECT & INSTALL
CONC END SECT. STD. 542011. 24" ERS. 1:4
W/ 11' 2" TRAVERSABLE PIPE GRATE
INSTALL 24" ERS X 12" RCP
FL IN = 97.51. FL OUT =97.35

FAS ROUTE 78 (SHANNON ROUTE)

EXISTING 20' PVMT
PROPOSED 24' PVMT
2+00
1+00
40'
40'
TYPICAL 6' AGGR. SHOULDER IN MAINLINE
R=300'
TYPICAL 4' HMA & 2' AGGR. SHLDR. WITHIN RADIUS RETURNS
STA. 0+70.0, 40' LT.
STA. 0+60.00, 40' RT.
R= 55'
PROP. ROW
PROPOSED R.O.W.
R=300'
STA. 0+18.39, 90' LT.
STA. 0+18.64, 80' RT.
55'
TYPICAL 4' HMA & 2' AGGR. SHLDR. WITHIN RADIUS RETURNS
STOP SIGN
STOP LINE 30'
33'
CONSTRUCTION JOINT
91° 14' 12"
NEW STA. 0+00
OLD STA. 534+74
FAP ROUTE 17 (IL 64)

N
SCALE:
1" = 40'

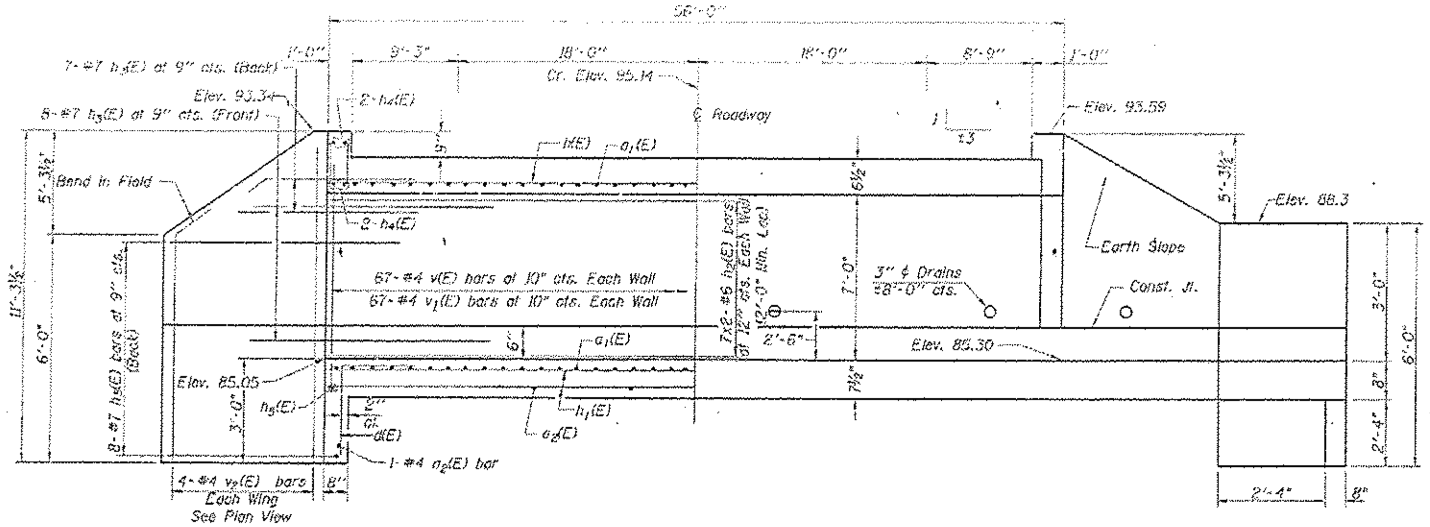
STA.211+56.5, 37' RT.
INSTALL MANHOLE TY-A, 7' DIA. W/FLAT SLAB TOP
W/ BASE, FRAME & LID TY-5. TOP SLAB ELEV.=92.31
MANHOLE ELEV = 92.81
STA.211+60.4, 40.5' RT., FL IN=90.40
TO STA.211+66.0, 75.5' RT., FL OUT = 90.03
INSTALL 36' 18" ERS RCP
SEE DETAIL BELOW

STA.211+44.2, 41.7' LT. FL IN = 91.18
TO STA.211+60.4, 40.5' RT. FL OUT = 90.44
INSTALL 66' 18" ERS RCP
W/ CONC END SECTION. STD 542011. 18" ERS. 1:4
W/ 11' 2" TRAVERSABLE PIPE GRATE

PROPOSED 4' PAVED HMA & TYPE-B 6.24 GUTTER WITHIN RADIUS RETURN
EDGE OF PAV'T.
NEW STA. 211+80.06
OLD STA. 746+67.1
FAP ROUTE 545 (IL 72)
CONSTRUCTION JOINT
PROPOSED 8' HMA PAVED SHLDR. IN RADIUS
EXISTING 15" CMP
EXISTING CONC CURB ELEVATIONS
89° 30' 00"
STOP SIGN
STOP LINE 30'
PROP. ROW
STA. 211+58.28, 86.79' LT.
STA. 211+06.89, 37.39' LT.
211+00
TYPICAL 4' HMA & 2' AGGR. SHLDR. WITHIN RADIUS RETURNS
FAS ROUTE 78 (SHANNON ROUTE)
PROPOSED 24' PVMT
STA.210+67. 25' RT., FL IN = 91.29
TO STA.211+52.4. 40.5' RT., FL OUT 90.44
INSTALL 86' 18" ERS RCP
W/ CONC END SECTION. STD. 542306. 18" ERS
SAW CUT
CONSTRUCT TY-B ENTRANCE, 8"
W/ 11'-7" X 35' APRON
STA. 211+28.63, 42.49' RT.
STA. 211+56.85, 61.66' RT.
STA.211+66.0, 78.5' RT.
INSTALL INLET SPECIAL NO. 5
TOP OF CURB ELEVATION= 92.74
STA.211+66.0. 81.5' RT. FL IN = 90.03
TO STA.211+68.9, 119' RT. FL OUT = 89.55
INSTALL 38' 18" ERS RCP
STA.211+68.9, 121.9' RT.
INSTALL INLET SPECIAL NO. 5
TOP OF CURB ELEVATION= 92.25
CONNECT INLET TO EXISTING 15" CMP
FL IN = 89.55. FL OUT =89.53
R=300'
2 CENTERED CURVE
55'R - 300'R
13' OFFSET

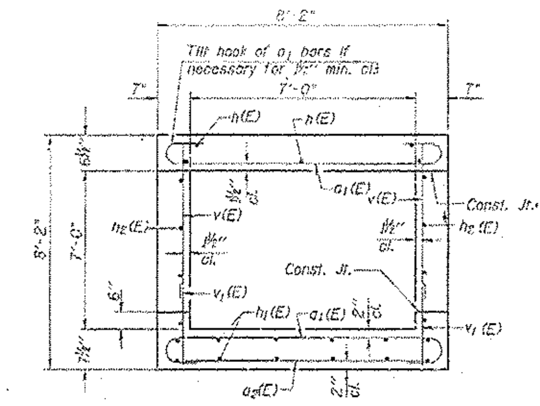
N
SCALE:
1" = 40'

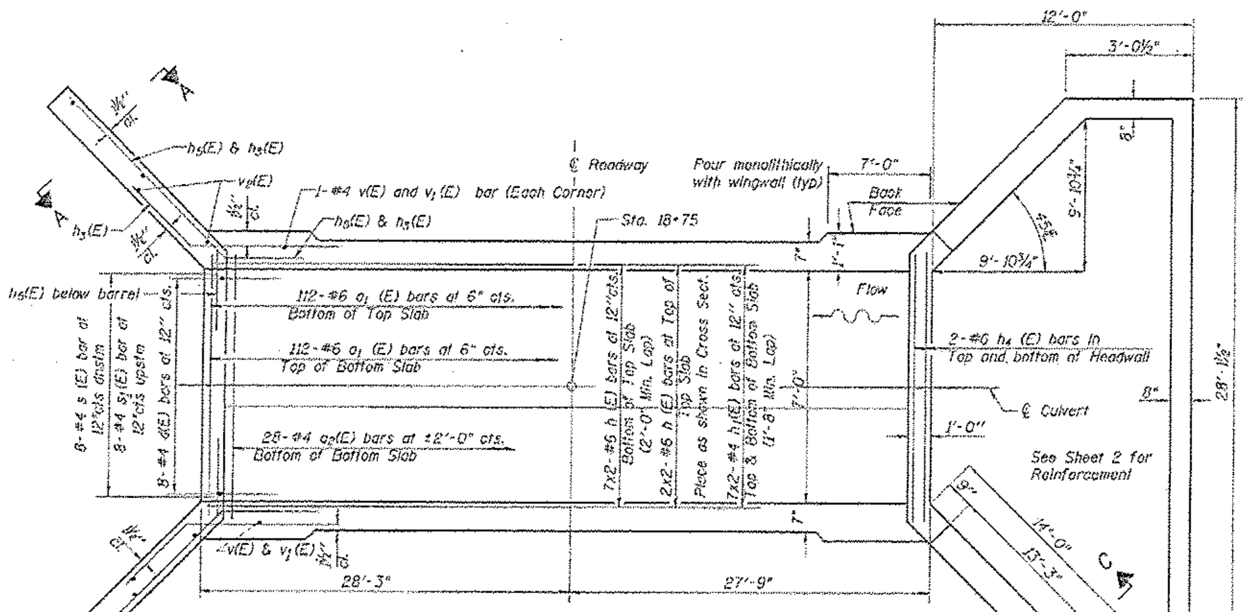
BASE, FRAME & LID, TY-5
STD. 604021-02
92.79
24"
$5\frac{3}{4}$"
2.34%
93.14
92.64
92.14
92.98 - 10"
92.31
HMA SHLDR., $4\frac{1}{2}$"
8"
CONC. FILL
26"
17"
6"
90.44
8"
8' - 2"
MANHOLE TY-A, 7' DIAMETER
STD. 602411-03
MANHOLE TY-A, 7'
STA. 211+60.4, 40.5' RT.



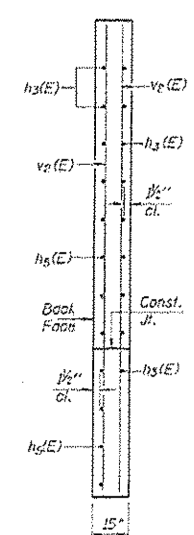
HALF LONG. SECTION

HALF ELEVATION





PLAN



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1(E)	224	#6	9'-2"	
a_2(E)	29	#4	8'-0"	
d (E)	42	#4	4'-6"	
d_1(E)	70	#4	6'-8"	
d_2(E)	12	#4	4'-8"	
h (E)	18	#6	29'-0"	
h_1(E)	28	#4	28'-8"	
h_2(E)	28	#6	29'-0"	
h_3(E)	60	#7	8'-0"	
h_4(E)	8	#6	8'-0"	
h_5(E)	36	#7	16'-6"	
h_6(E)	8	#4	6'-0"	
h_7(E)	10	#4	14'-0"	
h_8(E)	12	#4	11'-8"	
h_9(E)	44	#4	15'-0"	
s(E)	8	#4	3'-11"	
s_1(E)	8	#4	3'-10"	
v (E)	138	#4	6'-10"	
v_1(E)	138	#4	2'-3"	
v_2(E)	16	#4	12'-3"	
Concrete Box Culverts			Cu. Yd.	73.5
Reinforcement Bars Epoxy coated			Pound	10220

GENERAL NOTES

EXPOSED EDGES SHALL BE BEVELED 3/4".

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53, GRADE 60.

AT LEAST 7 FEET OF BARREL SHALL BE POURED MONOLITHICALLY WITH WINGWALLS.

FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.

A DEPOSIT OF GRAVEL OR BROKEN STONE SHALL BE PLACED BEHIND DRAIN HOLES, IN ACCORDANCE WITH ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS. A DOUBLE LAYER OF GEOTECHNICAL FILTER FABRIC SHALL BE PLACED AGAINST THE DRAIN HOLE AND AROUND THE DEPOSIT TO PREVENT LEAKAGE OF BACKFILL MATERIAL THROUGH THE 3" DIAMETER OPENING. FILTER FABRIC SHALL BE IN ACCORDANCE WITH SECTION 282 OF THE STANDARD SPECIFICATIONS, WITH THE EXCEPTION THAT UNDER METHOD OF MEASUREMENT AND BASIS OF PAYMENT THIS ITEM WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BOX CULVERT.

WINGWALL REINFORCEMENT SHALL BE BENT OR CUT TO FIT.

BARS INDICATED THUS 11 x 2 – #6 ETC. INDICATES 11 LINES OF BARS WITH 2 LENGTHS PER LINE.

WENDLER ENGINEERING SERVICES, INC.
Illinois Professional Design Firm No. 184-000848

DATE
RICHARD A. BAUMANN
DIXON, ILLINOIS
ILLINOIS LICENSED STRUCTURAL ENGINEER NO. 081-004732
EXPIRES 11-30-2014

DESIGN STRESSES

fy = 60,000 psi
f'c = 3,500 psi
Design Specifications: 2008 AASHTO

LOADING HL-93

MIN. BAR LAP

BAR	BARREL	WINGWALL
#4	1'-4"	1'-8"
#5	1'-8"	2'-2"
#6	2'-0"	2'-7"
#7	2'-9"	3'-5"
#8	3'-8"	4'-6"

STATION 18+75
SHANNON ROUTE (FAS 78)
CARROLL COUNTY

SCALE: 1"= NONE

REVISIONS

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wendler engineering services, inc.
ORIGINATING SOLUTIONS
engineers · surveyors · scientists
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Illinois Professional Design Firm No. 184-000848

BOX CULVERT DETAILS - STA. 18+75 OF SHANNON ROUTE (FAS 78) FOR CARROLL COUNTY

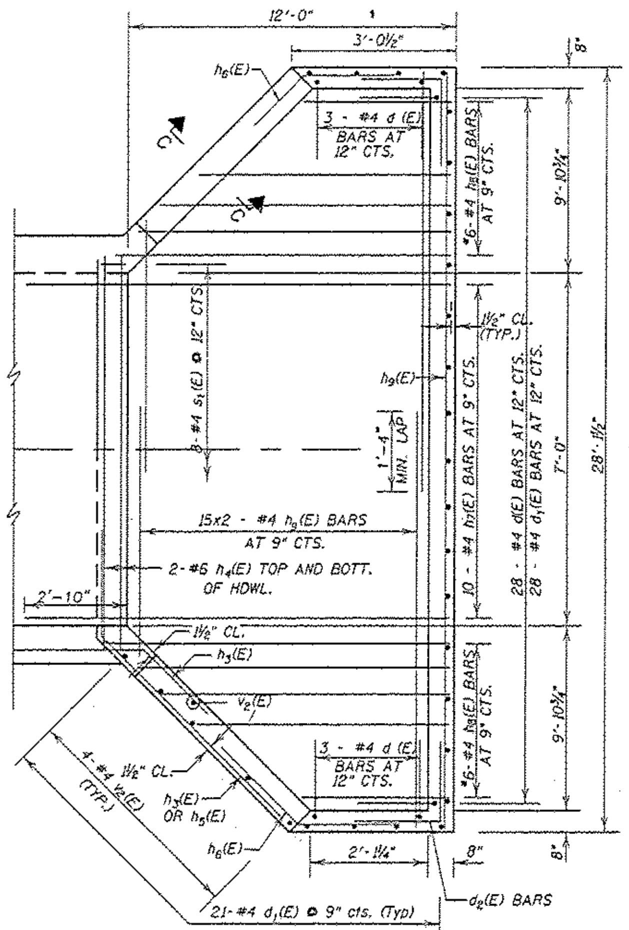
SHEET TITLE
BOX CULVERT DETAILS STA. 18+75

JOB NUMBER
2120238

DATE
8/31/2012

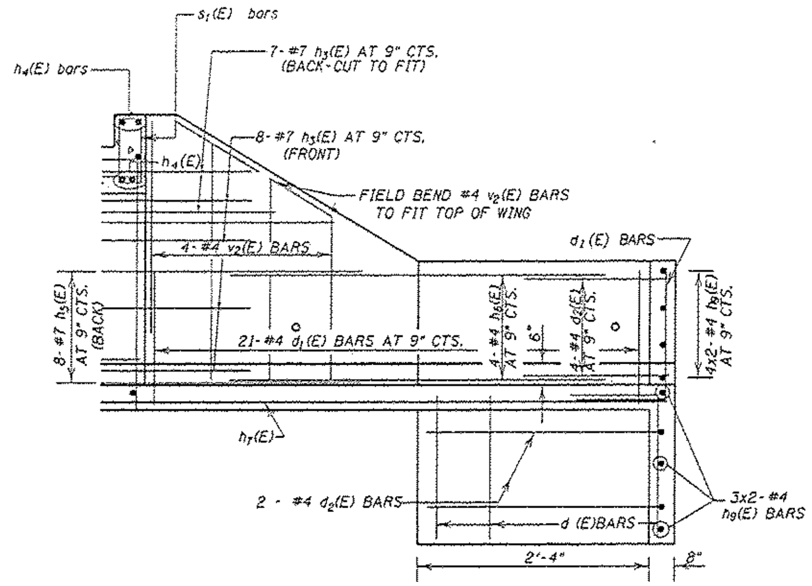
SHEET NO.
1 of 2

SCALE: 1"= NONE

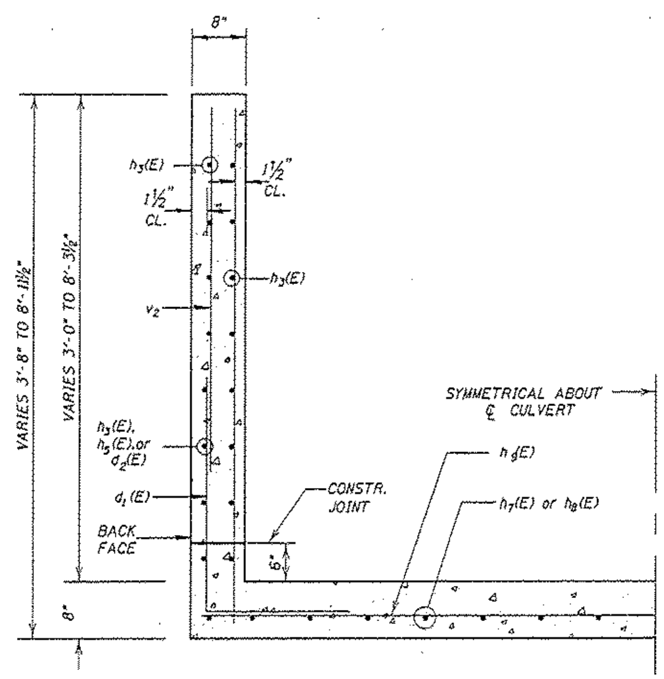


* CUT h8(E) BARS TO FIT AND USE CUTOFF IN SHORTER END.

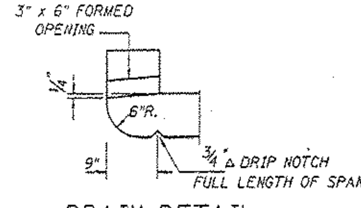
DROP BOX REINFORCEMENT



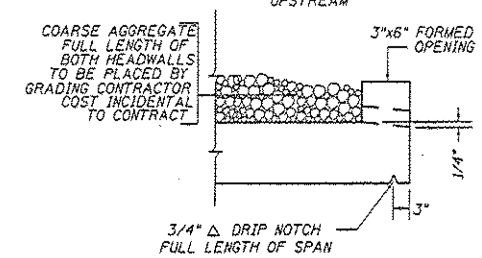
UPSTREAM WINGWALL REINFORCEMENT



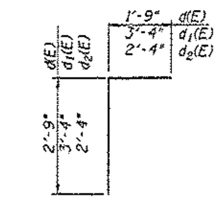
SECTION C–C



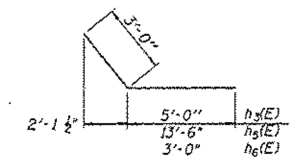
DRAIN DETAIL
UPSTREAM



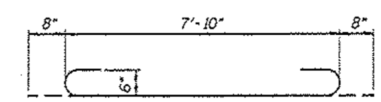
DRAIN DETAIL
DOWNSTREAM



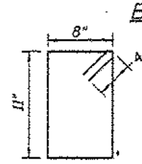
BAR d(E), d1(E) & d2(E)



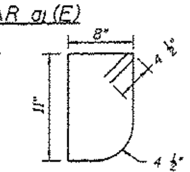
BARS h3(E), h5(E) & h6(E)



BAR g1(E)



BAR s(E)



BAR s1(E)

STATION 18+75
SHANNON ROUTE (FAS 78)
CARROLL COUNTY

REVISIONS

REVISION	DATE
SHEET NUMBER CHANGES	8/12/2013

wendler engineering services, inc.
GROUNDBREAKING SOLUTIONS
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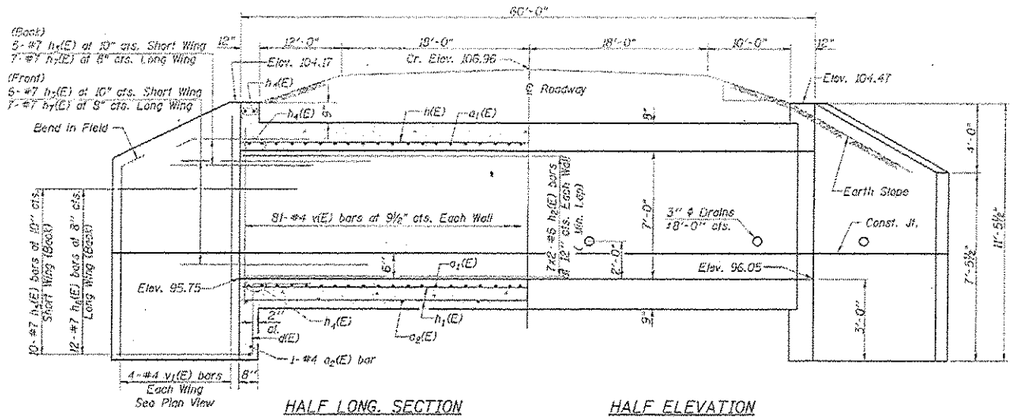
BOX CULVERT DETAILS - STA. 18+75
OF
SHANNON ROUTE (FAS 78)
FOR
CARROLL COUNTY

SHEET TITLE
BOX CULVERT DETAILS STA. 18+75

JOB NUMBER
2120238

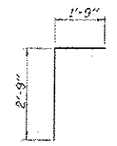
DATE
8/31/2012

SHEET NO.
2 of 2

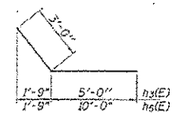


HALF LONG. SECTION HALF ELEVATION

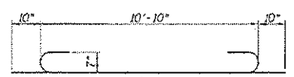
Dimensions at Rt. L's to ℄ Roadway



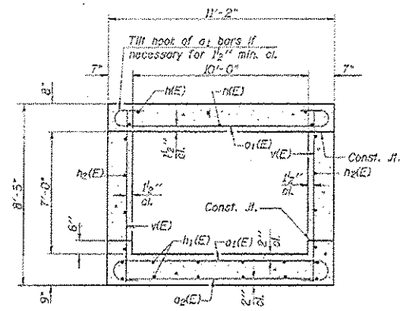
BAR d(E)



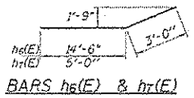
BARS h3(E) & h5(E)



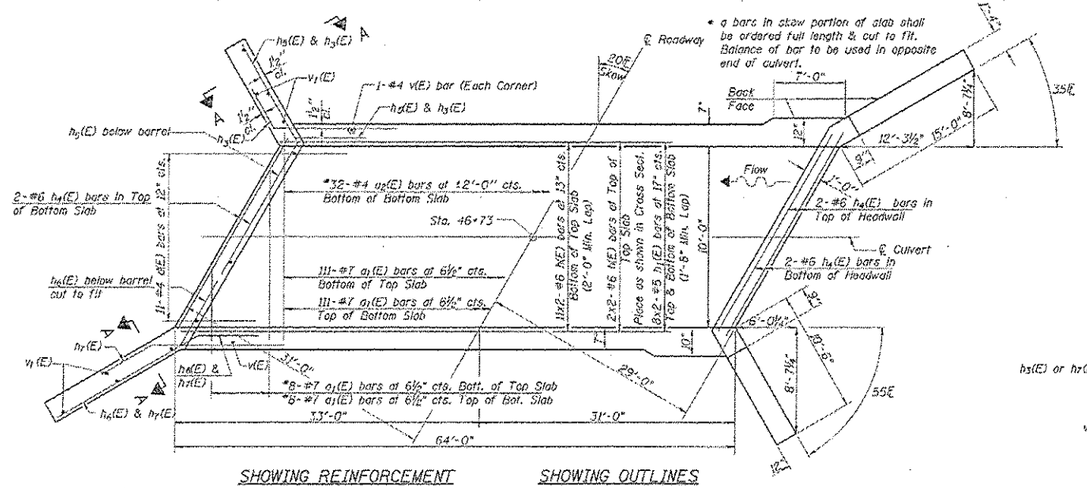
BAR a1(E)



SECTION THRU BARREL

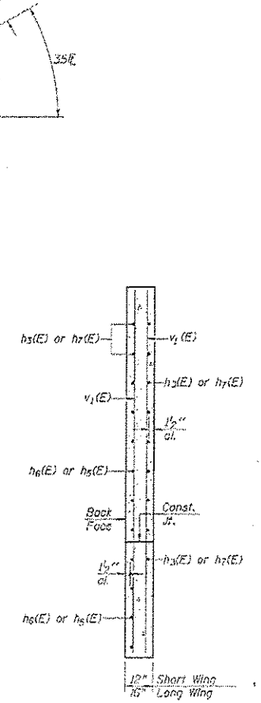


BARS h6(E) & h7(E)

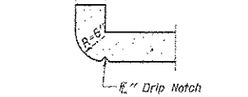


SHOWING REINFORCEMENT SHOWING OUTLINES

PLAN



SECTION A-A



SECTION THRU HEADWALL
(Up Stream End Only)

DESIGN STRESSES
fy = 60,000 psi
f'c = 3,500 psi
Design Specifications 2008 AASHTO

LOADING HL-93

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	238	#7	12'-6"	
a2(E)	34	#4	10'-10"	
d(E)	22	#4	4'-6"	
h(E)	26	#6	33'-0"	
h1(E)	32	#5	32'-10"	
h2(E)	28	#6	33'-0"	
h3(E)	22	#7	8'-0"	
h4(E)	12	#6	11'-6"	
h5(E)	22	#7	13'-0"	
h6(E)	26	#7	17'-6"	
h7(E)	28	#7	9'-0"	
v(E)	166	#4	8'-0"	
v1(E)	16	#4	11'-3"	
Concrete Box Culverts			Cu. Yd.	84.0
Reinforcement Bars			Pound	13,720

MIN. BAR LAP

BAR	BARREL	WINGWALL
#4	1'-4"	1'-8"
#5	1'-8"	2'-2"
#6	2'-0"	2'-7"
#7	2'-9"	3'-5"
#8	3'-8"	4'-6"

GENERAL NOTES

EXPOSED EDGES SHALL BE BEVELED 3/4".

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53, GRADE 60.

AT LEAST 7 FEET OF BARREL SHALL BE POURED MONOLITHICALLY WITH WINGWALLS.

FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.

A DEPOSIT OF GRAVEL OR BROKEN STONE SHALL BE PLACED BEHIND DRAIN HOLES, IN ACCORDANCE WITH ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS. A DOUBLE LAYER OF GEOTECHNICAL FILTER FABRIC SHALL BE PLACED AGAINST THE DRAIN HOLE AND AROUND THE DEPOSIT TO PREVENT LEAKAGE OF BACKFILL MATERIAL THROUGH THE 3" DIAMETER OPENING. FILTER FABRIC SHALL BE IN ACCORDANCE WITH SECTION 282 OF THE STANDARD SPECIFICATIONS, WITH THE EXCEPTION THAT UNDER METHOD OF MEASUREMENT AND BASIS OF PAYMENT THIS ITEM WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BOX CULVERT.

WINGWALL REINFORCEMENT SHALL BE BENT OR CUT TO FIT.

BARS INDICATED THUS 11 x 2 - #6 ETC. INDICATES 11 LINES OF BARS WITH 2 LENGTHS PER LINE.

WENDLER ENGINEERING SERVICES, INC.
Illinois Professional Design
Firm No. 184-000848

RICHARD A. BAUMANN
DIXON, ILLINOIS
ILLINOIS LICENSED STRUCTURAL ENGINEER NO. 081-004732
EXPIRES 11-30-2014

DATE

STATION 46+73
SHANNON ROUTE (FAS 78)
CARROLL COUNTY

29 of 68

SCALE: 1" = NONE

REVISIONS
DESCRIPTION — DATE
SHEET NUMBER CHANGES — 10/12/2012

DESIGNED DB
DRAWN BEH
CHECKED
QUANTITIES
APPROVED

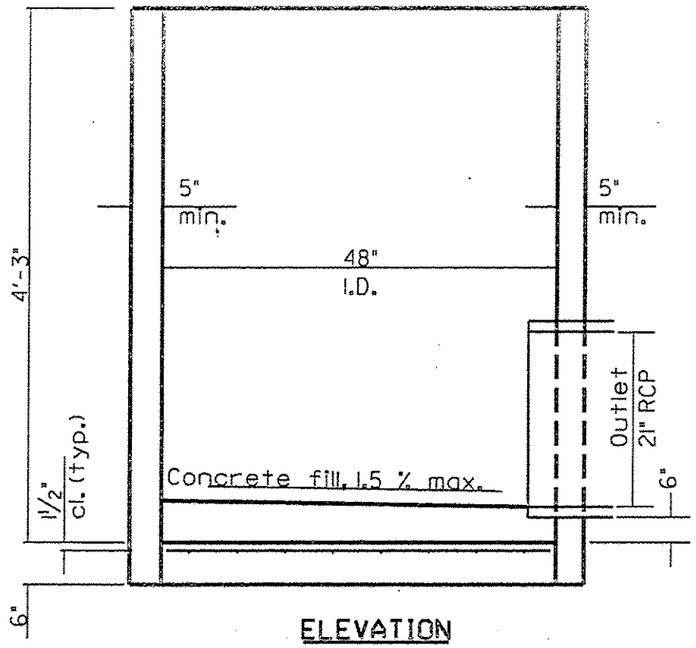
wendler
wendler engineering services, inc.
GROUNDBREAKING SOLUTIONS
engineers • surveyors • scientists
www.wendlerinc.com • 815.288.2281
Illinois Professional Design Firm No. 184.000848

BOX CULVERT DETAILS - STA. 46+73
OF
SHANNON ROUTE (FAS 78)
FOR
CARROLL COUNTY

SHEET TITLE
BOX CULVERT DETAILS STA. 46+73

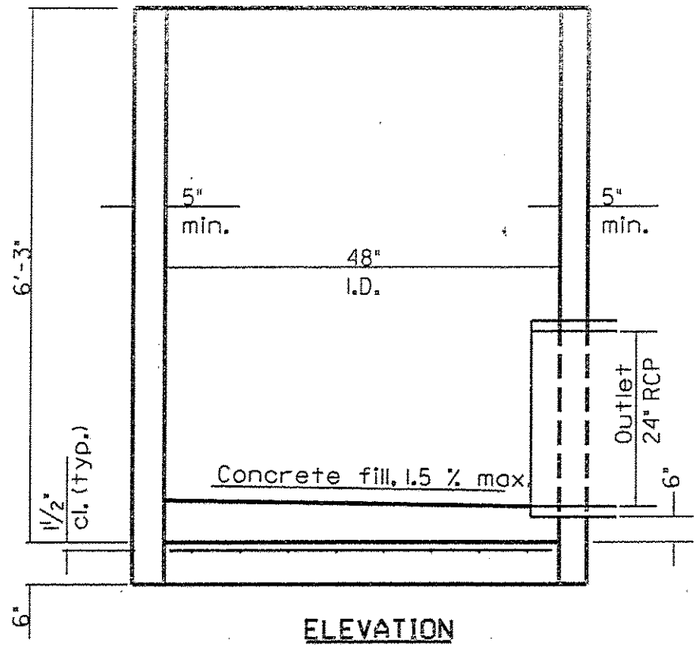
JOB NUMBER 2120239
DATE 8/31/2012
SHEET NO. 1 of 1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	30



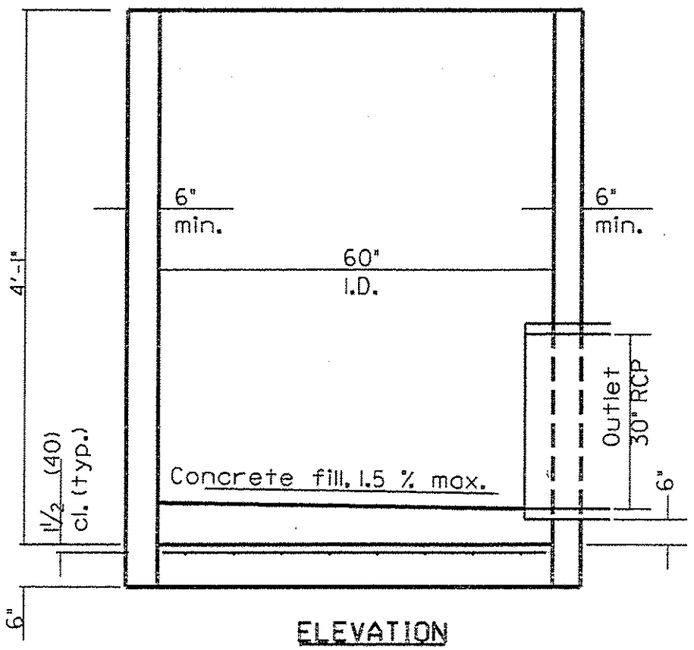
ELEVATION

12+82



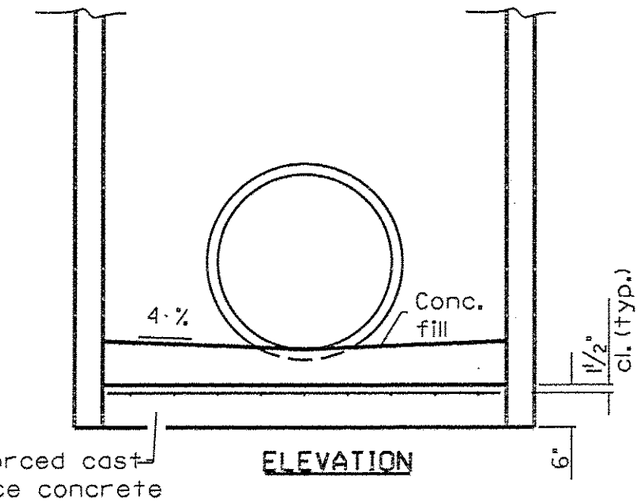
ELEVATION

121+00



ELEVATION

177+25



ELEVATION

TYPICAL CONCRETE FILL

GENERAL NOTES

Joint configuration and dimensions of flat slab top shall match and fit the riser joint detail.

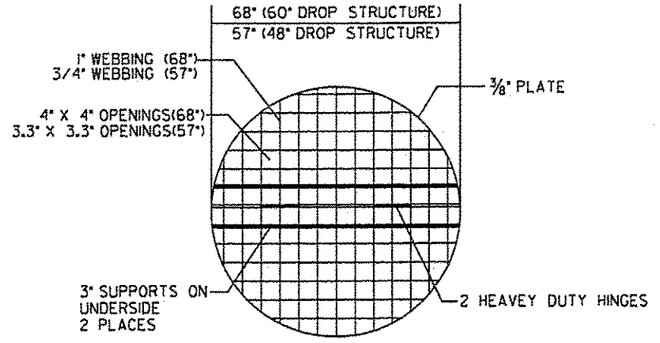
Lifting devices shall be approved by the Engineer.

Bottom slabs shall be reinforced with a minimum of 0.37 sq. in./ft. (780 sq. mm /m) in both directions with a maximum spacing of 10 (250).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise shown.



TYPICAL OPEN GRATING

(ALL MATERIAL TO BE GALVANIZED)

PRECAST CONCRETE DROP STRUCTURES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	31

STA. 2+00 - END FULL DEPTH RECONSTRUCTION; BEGIN FULL DEPTH RECLAMATION

RECONSTRUCT 0+00-2+00

0+86.78

-29.00,98.02

20.78,94.28

STA =0+86.78
ORIGINAL EL =99.96
DESIGN EL =99.96

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =59.82
VF =0.00
VC =84.42

2+00

-24.04,98.35

24.37,98.20

STA =2+00
ORIGINAL EL =100.55
DESIGN EL =100.55

DESIGN EARTHWORK
FILL AREA =3.71
CUT AREA =44.01
VF =1.78
VC =21.63

0+50

-21.43,99.43

22.08,97.88

STA =0+50
ORIGINAL EL =100.03
DESIGN EL =100.03

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =64.11
VF =0.00
VC =25.50

1+86.70

-23.05,98.17

22.73,98.33

STA =1+86.70
ORIGINAL EL =100.42
DESIGN EL =100.42

DESIGN EARTHWORK
FILL AREA =3.52
CUT AREA =43.85
VF =2.62
VC =61.15

0+39.43

-30.37,34.98,09

26.52,97.95

STA =0+39.43
ORIGINAL EL =100.05
DESIGN EL =100.05

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =66.16
VF =0.00
VC =110.19

1+50

-20.00,99.01

19.07,99.35

STA =1+50
ORIGINAL EL =100.26
DESIGN EL =100.26

DESIGN EARTHWORK
FILL AREA =0.34
CUT AREA =46.11
VF =0.31
VC =94.76

0+00

STA =0+00
ORIGINAL EL =100.25
DESIGN EL =100.25

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =84.76
VF =0.00
VC =0.00

1+00

-18.00,99.46

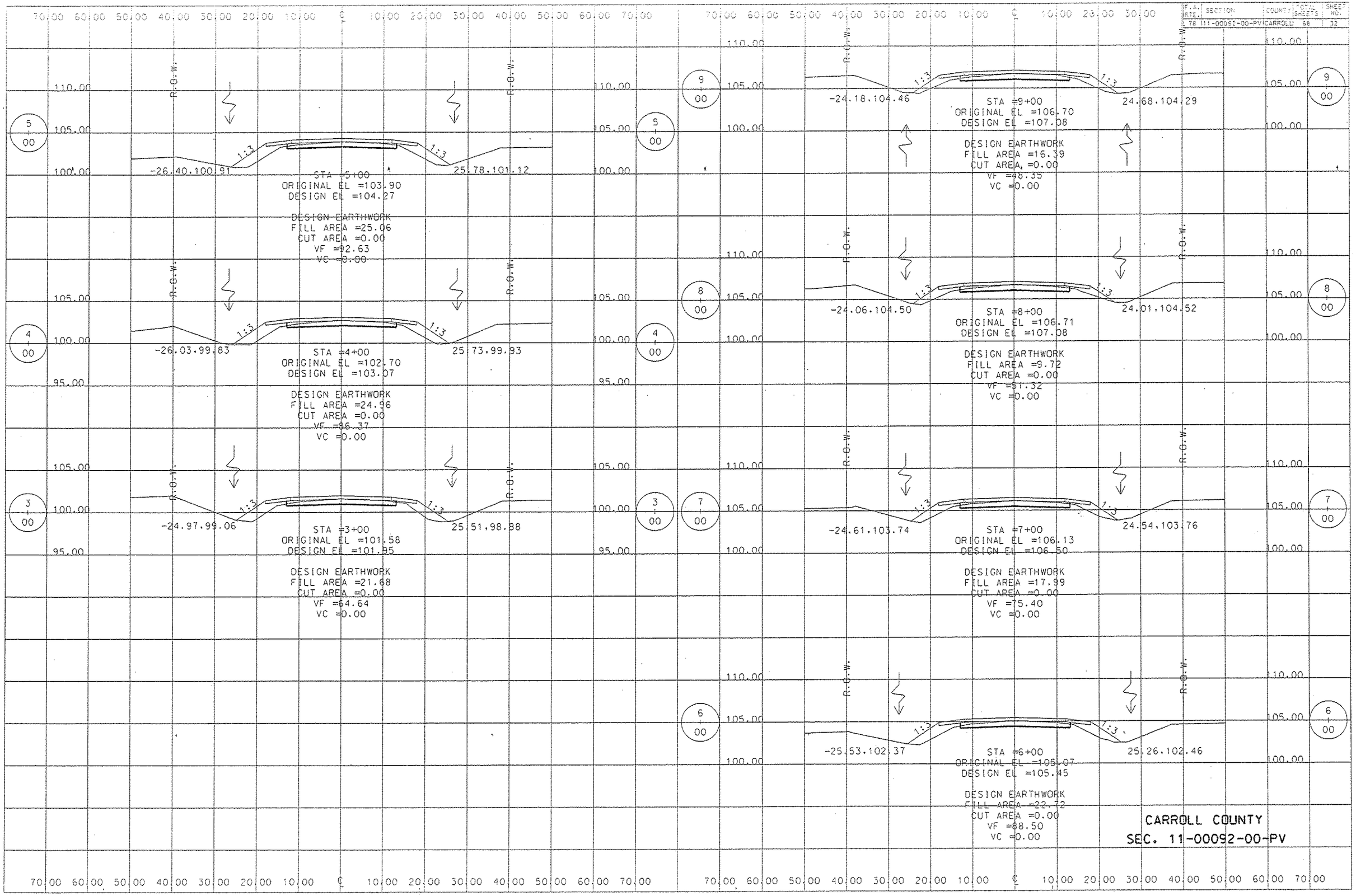
18.00,99.46

STA =1+00
ORIGINAL EL =100.02
DESIGN EL =100.02

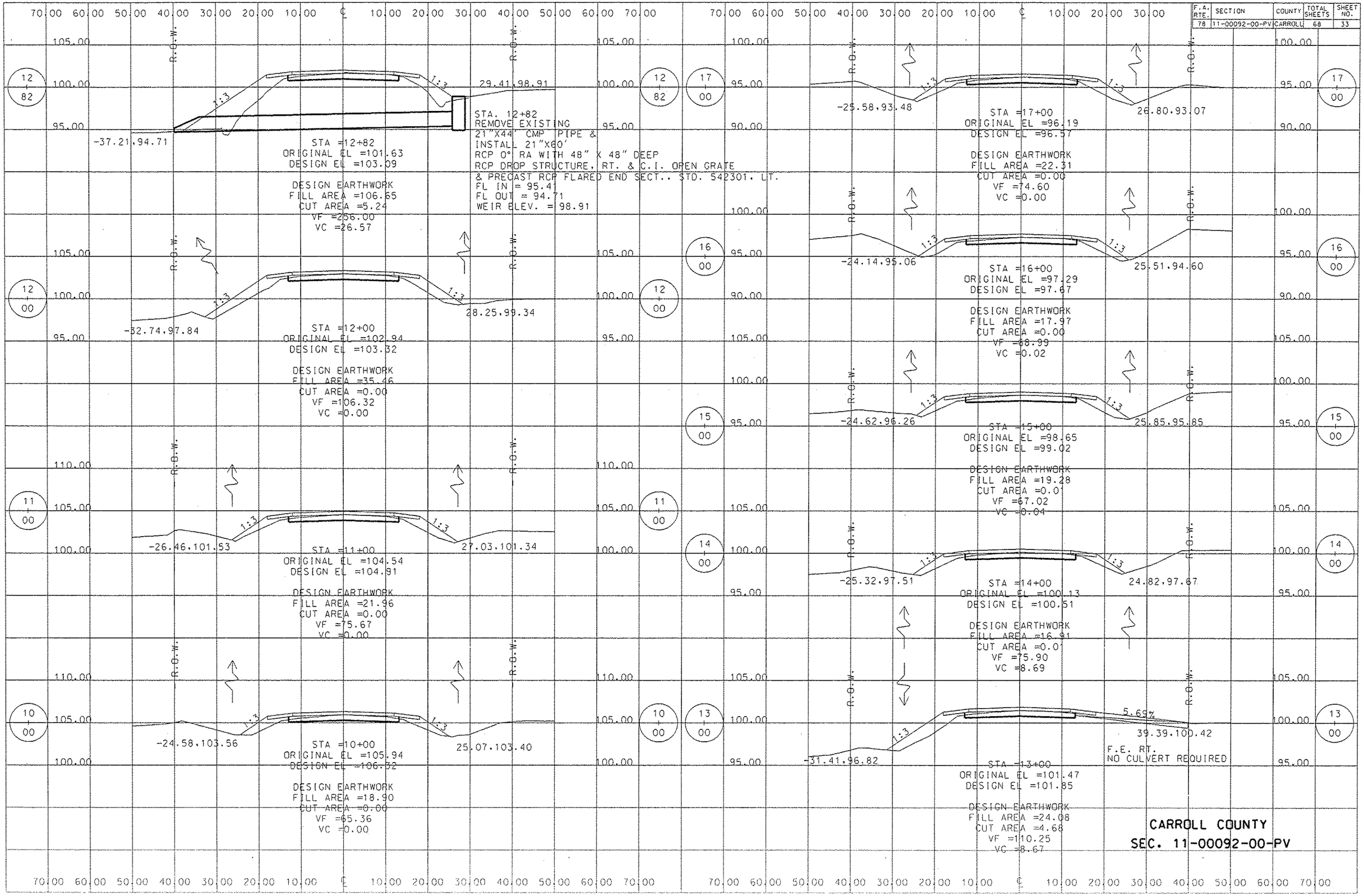
DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =56.23
VF =0.00
VC =28.40

CARROLL COUNTY
SEC. 11-00092-00-PV

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	66	32



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	33



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	34

70 00 60 00 50 00 40 00 30 00 20 00 10 00 ℄ 10 00 20 00 30 00 40 00 50 00 60 00 70 00

21+00

95.00 / 90.00

R.O.W. 1:3 1:3 R.O.W.

-27.07.92.18 30.06.91.18

STA =21+00
ORIGINAL EL =95.39
DESIGN EL =95.76

DESIGN EARTHWORK
FILL AREA =20.97
CUT AREA =0.00
VF =139.09
VC =0.00

20+00

95.00 / 90.00 / 85.00

R.O.W. 1:3 1:3 R.O.W.

-37.22.88.14 32.24.89.80

STA =20+00
ORIGINAL EL =94.74
DESIGN EL =95.11

DESIGN EARTHWORK
FILL AREA =54.14
CUT AREA =0.00
VF =201.97
VC =0.00

19+00

95.00 / 90.00 / 85.00

R.O.W. 1:3 1:3 R.O.W.

-43.25.85.98 35.51.88.56

STA =19+00
ORIGINAL EL =94.58
DESIGN EL =94.96

DESIGN EARTHWORK
FILL AREA =54.92
CUT AREA =0.00
VF =143.30
VC =7.22

18+75

95.00 / 90.00 / 85.00

R.O.W. 1:3 1:3 R.O.W.

FL=88.30

INSTALL 2 EA. 8"X10' CMP FIELD TILE DRAINS

TEMPORARY 20' EASEMENT

STA =18+75
ORIGINAL EL =94.62
DESIGN EL =95.14

DESIGN EARTHWORK
FILL AREA =179.03
CUT AREA =28.60
VF =281.91
VC =87.57

STA. 18+75
REMOVE EXISTING
6'X5.5'X46' REIN. CONC. BOX
INSTALL 7'X 7'X 56'
REINFORCED CONC. BOX
W/ DROP STRUCTURE

18+00

100.00 / 95.00 / 90.00

R.O.W. 1:3 14.53% R.O.W.

-32.76.90.05 30.00.93.80

F.E. RT.
FL=90.36

STA =18+00
ORIGINAL EL =95.16
DESIGN EL =95.53

DESIGN EARTHWORK
FILL AREA =22.46
CUT AREA =0.00
VF =82.91
VC =7.22

STA. 18+00. 30' RT.
REMOVE EXISTING
15"X26" CMP &
INSTALL 15" X 44' CMP W/
METAL FLARED END SECTIONS

70 00 60 00 50 00 40 00 30 00 20 00 10 00 ℄ 10 00 20 00 30 00 40 00 50 00 60 00 70 00

25+00

105.00 / 100.00 / 95.00

R.O.W. 1:3 1:3 R.O.W.

-27.26.98.58 29.66.97.78

STA =25+00
ORIGINAL EL =101.86
DESIGN EL =102.23

DESIGN EARTHWORK
FILL AREA =33.64
CUT AREA =0.19
VF =130.72
VC =0.35

24+00

105.00 / 100.00 / 95.00

R.O.W. 1:3 1:3 R.O.W.

-28.26.96.18 28.40.96.14

STA =24+00
ORIGINAL EL =99.79
DESIGN EL =100.17

DESIGN EARTHWORK
FILL AREA =36.95
CUT AREA =0.01
VF =143.78
VC =0.01

23+00

100.00 / 95.00 / 90.00

R.O.W. 1:3 1:3 R.O.W.

-30.01.93.85 29.16.94.14

STA =23+00
ORIGINAL EL =98.05
DESIGN EL =98.42

DESIGN EARTHWORK
FILL AREA =40.69
CUT AREA =0.00
VF =147.23
VC =0.00

22+00

100.00 / 95.00 / 90.00

R.O.W. 1:3 1:3 R.O.W.

-29.56.92.44 29.74.92.38

STA =22+00
ORIGINAL EL =96.46
DESIGN EL =96.85

DESIGN EARTHWORK
FILL AREA =38.82
CUT AREA =0.00
VF =110.72
VC =0.00

21+10

100.00 / 95.00 / 90.00

R.O.W. 13.86% 33.33% R.O.W.

-40.00.92.3 30.28.91.24

FL=91.55

STA =21+10
ORIGINAL EL =95.48
DESIGN EL =95.91

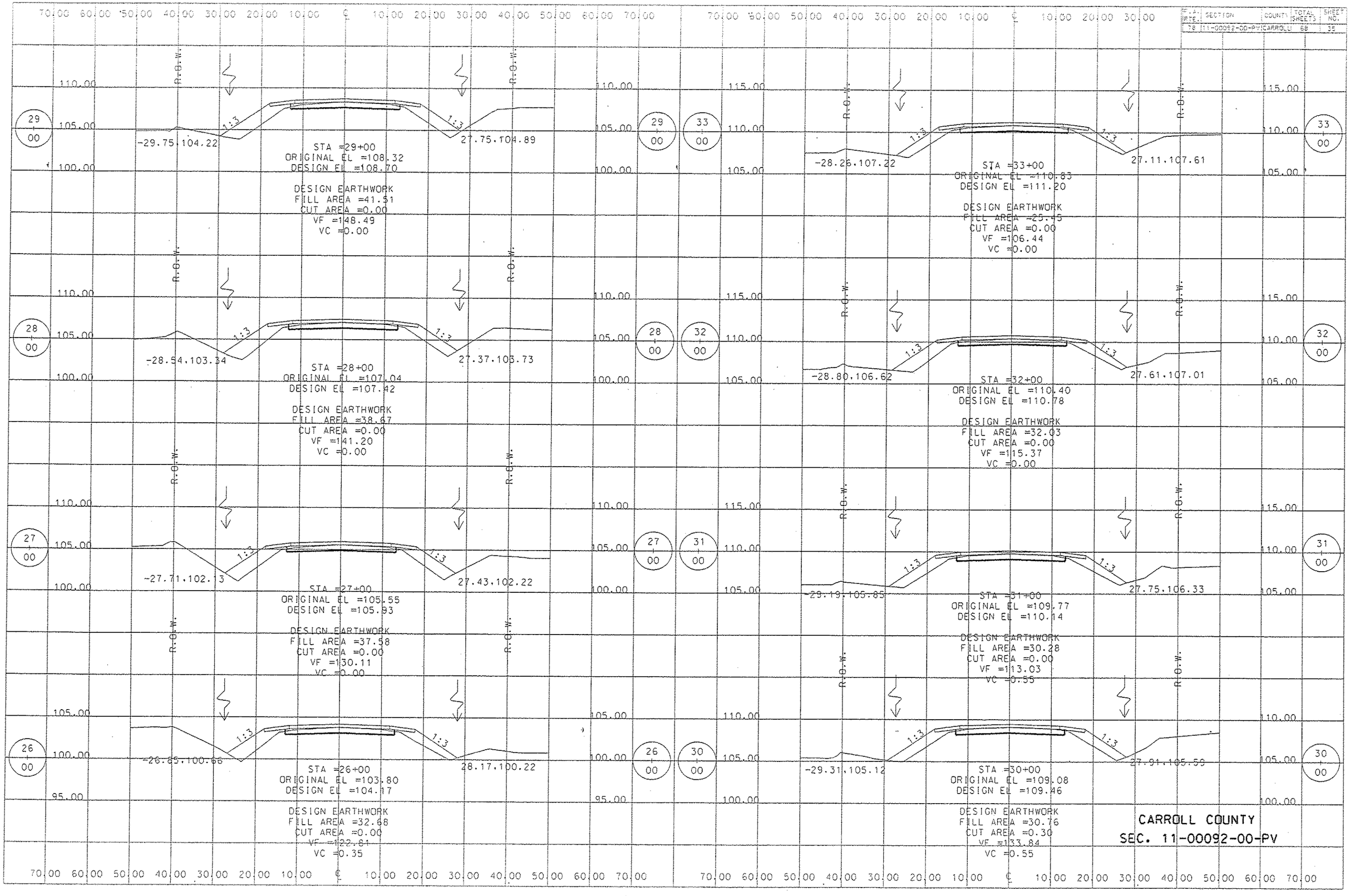
DESIGN EARTHWORK
FILL AREA =16.10
CUT AREA =32.10
VF =6.80
VC =1.77

STA. 21+10. 28' LT.
REMOVE EXISTING
15"X26" CMP &
INSTALL 15" X 46' CMP W/
METAL FLARED END SECTIONS

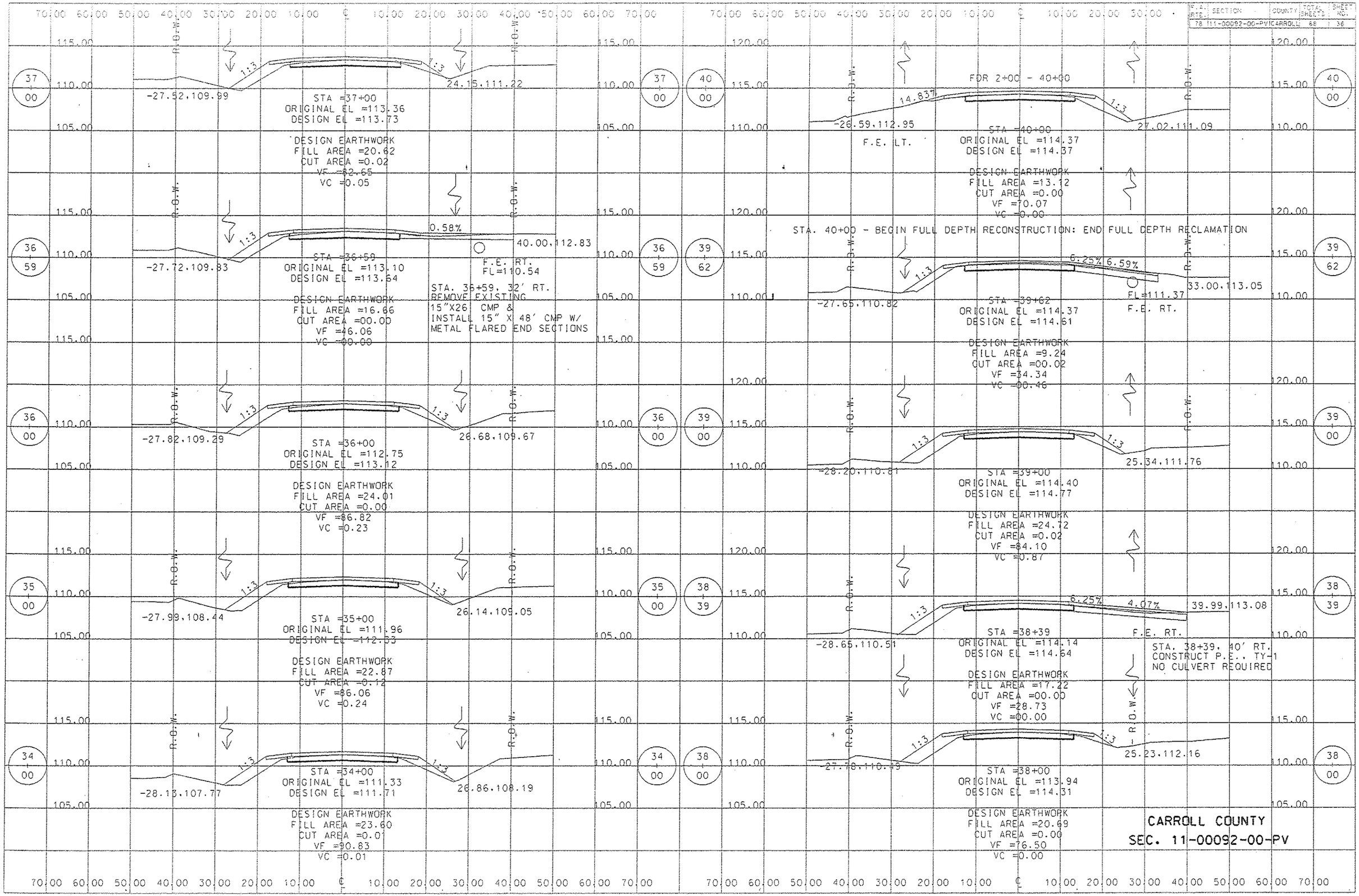
CARROLL COUNTY
SEC. 11-00092-00-PV

70 00 60 00 50 00 40 00 30 00 20 00 10 00 ℄ 10 00 20 00 30 00 40 00 50 00 60 00 70 00

STATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TX	11-00092-00-PV	CARROLL	68	35



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	68	36



F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	62	37

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

115.00 / 110.00 / 105.00 — R.O.W. — R.O.W.

41 50 — -28.30, 109.76

1:3 4.64% -3.34% -6.25% 1:3

26.70, 109.40 — 41 50

STA =41+50
ORIGINAL EL =112.74
DESIGN EL =113.07

DESIGN EARTHWORK
FILL AREA =23.06
CUT AREA =37.39
VF =42.17
VC =73.67

41 00 — -28.04, 110.02

1:3 6.25% -1.26% -1.56% -6.25% 1:3

26.75, 110.10 — 41 00

STA =41+00
ORIGINAL EL =113.67
DESIGN EL =113.59

DESIGN EARTHWORK
FILL AREA =22.48
CUT AREA =42.17
VF =38.49
VC =76.28

40 50 — -27.42, 110.41

1:3 6.25% 0.60% -1.56% -6.25% 1:3

26.90, 110.45 — 40 50

STA =40+50
ORIGINAL EL =113.76
DESIGN EL =113.99

DESIGN EARTHWORK
FILL AREA =18.76
CUT AREA =40.21
VF =30.27
VC =77.28

120.00 / 115.00 / 110.00 / 105.00 — R.O.W. — R.O.W.

-18.00, 113.84

9.11% 6.25% 1.56% -1.56% -6.25% 1:3

F.E. LT.
NO WORK NEEDED

25.68, 111.14 — 40 07

STA =40+00
ORIGINAL EL =114.37
DESIGN EL =114.37

DESIGN EARTHWORK
FILL AREA =13.94
CUT AREA =43.25
VF =12.90
VC =40.04

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

115.00 / 110.00 / 105.00 — R.O.W. — R.O.W.

43 00 — -30.08, 107.37

1:3 2.00% -6.00% -6.25% 1:3

25.64, 107.15 — 43 00

STA =43+00
ORIGINAL EL =110.92
DESIGN EL =110.79

DESIGN EARTHWORK
FILL AREA =24.06
CUT AREA =43.05
VF =44.24
VC =81.44

42 50 — -29.65, 108.39

1:3 2.00% -6.00% -6.25% 1:3

26.15, 107.86 — 42 50

STA =42+50
ORIGINAL EL =111.92
DESIGN EL =111.67

DESIGN EARTHWORK
FILL AREA =23.72
CUT AREA =44.91
VF =38.95
VC =77.03

42 03.86 — -28.40, 109.41

1:3 2.00% -5.66% -6.25% 1:3

26.46, 108.50 — 42 03.86

STA =42+03.86
ORIGINAL EL =112.49
DESIGN EL =112.30

DESIGN EARTHWORK
FILL AREA =21.86
CUT AREA =45.23
VF =3.09
VC =6.46

42 00 — -28.55, 109.43

1:3 2.00% -5.48% -6.25% 1:3

26.20, 108.66 — 42 00

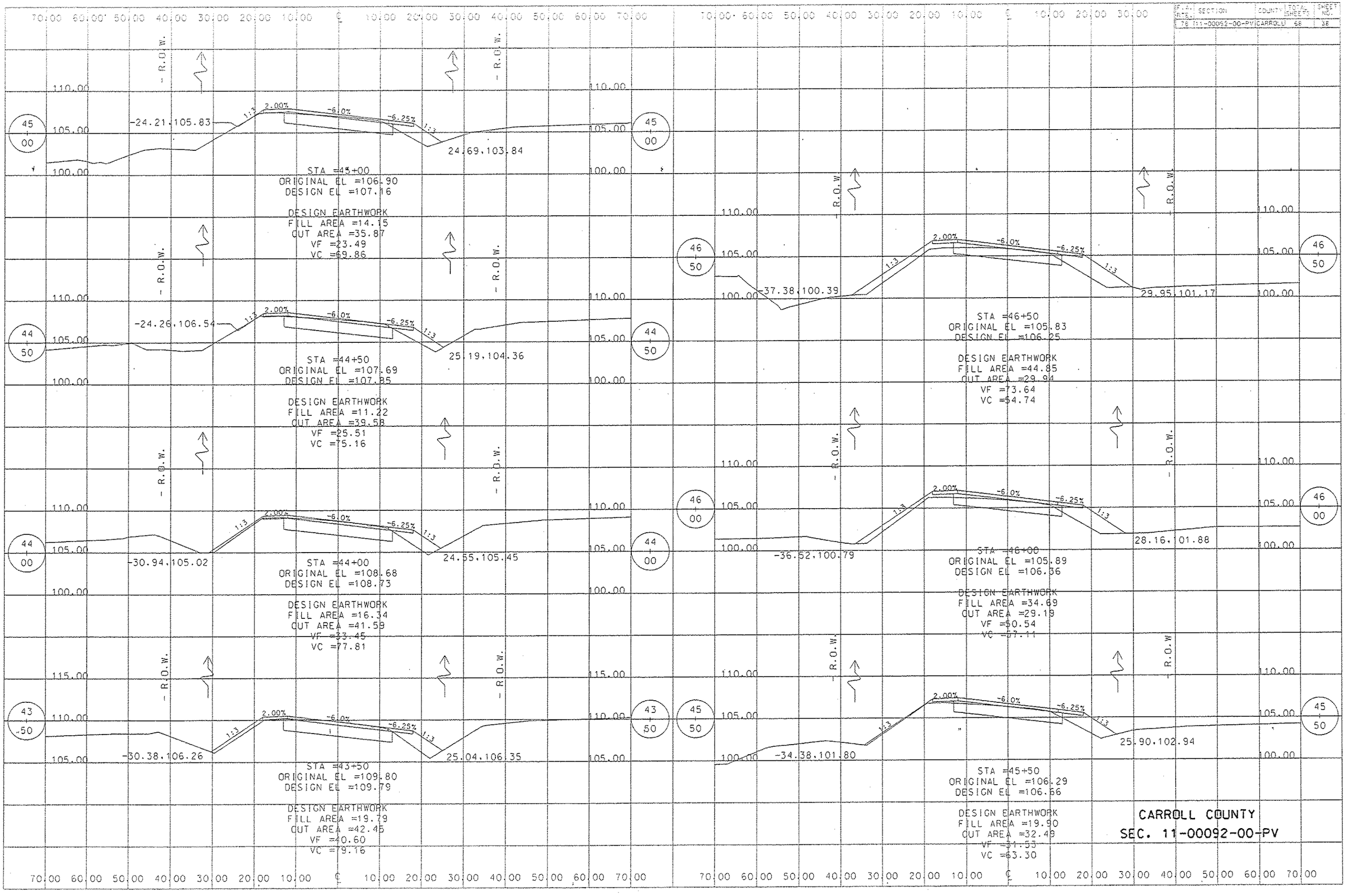
STA =42+00
ORIGINAL EL =112.73
DESIGN EL =112.43

DESIGN EARTHWORK
FILL AREA =21.47
CUT AREA =45.29
VF =41.23
VC =76.56

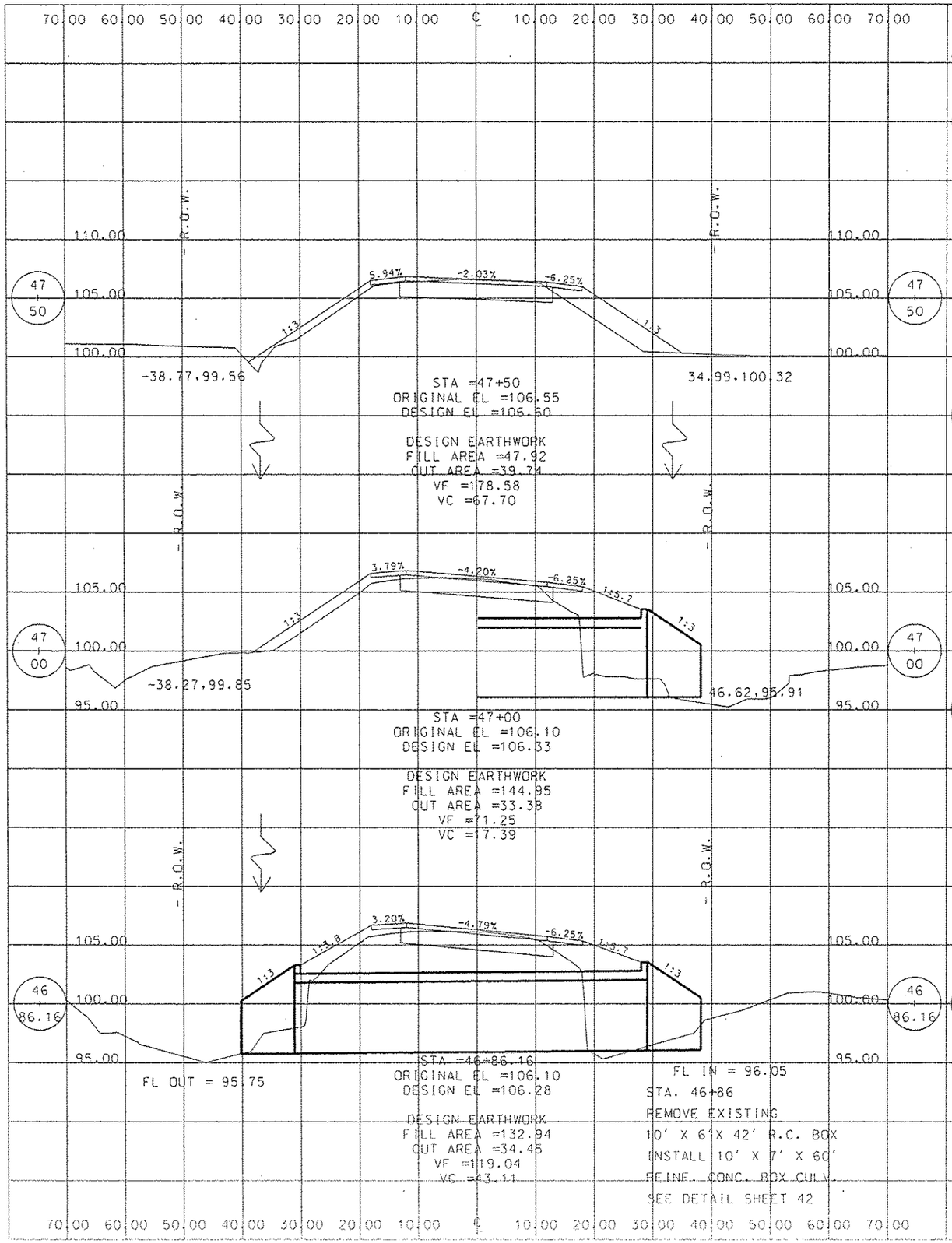
CARROLL COUNTY
SEC. 11-00092-00-PV

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

F.A.S. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	65	38



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	39



CARROLL COUNTY
SEC. 11-00092-00-PV

P.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	11-00092-00-PV	CARROLL	68	40

STA =51+00
ORIGINAL EL =114.19
DESIGN EL =113.44

DESIGN EARTHWORK
FILL AREA =11.19
CUT AREA =84.92
VF =21.70
VC =159.01

-25.06.109.99

37.81.110.54

STA =53+00
ORIGINAL EL =118.10
DESIGN EL =118.01

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =72.45
VF =4.79
VC =122.08

-39.70.116.63

SPECIAL DITCH LEFT
FL=113.47

35.54.115.90

STA =50+50
ORIGINAL EL =112.90
DESIGN EL =112.14

DESIGN EARTHWORK
FILL AREA =12.25
CUT AREA =86.91
VF =6.82
VC =54.87

-24.33.109.00

38.08.109.35

STA =52+50
ORIGINAL EL =117.18
DESIGN EL =117.01

DESIGN EARTHWORK
FILL AREA =5.17
CUT AREA =59.40
VF =13.91
VC =115.47

-40.39.116.85

SPECIAL DITCH LEFT
FL=112.97

35.74.113.35

STA =50+32.93
ORIGINAL EL =112.45
DESIGN EL =111.70

DESIGN EARTHWORK
FILL AREA =9.32
CUT AREA =86.12
VF =11.49
VC =107.95

-24.97.108.43

36.53.108.67

STA =52+00
ORIGINAL EL =116.18
DESIGN EL =115.91

DESIGN EARTHWORK
FILL AREA =9.86
CUT AREA =65.31
VF =17.92
VC =130.19

-38.02.116.09

SPECIAL DITCH LEFT
FL=112.47

37.04.112.45

STA =50+00
ORIGINAL EL =111.48
DESIGN EL =110.84

DESIGN EARTHWORK
FILL AREA =9.52
CUT AREA =90.32
VF =16.12
VC =165.83

-24.06.108.05

38.12.107.65

STA =51+50
ORIGINAL EL =115.17
DESIGN EL =114.72

DESIGN EARTHWORK
FILL AREA =9.50
CUT AREA =75.30
VF =19.16
VC =148.35

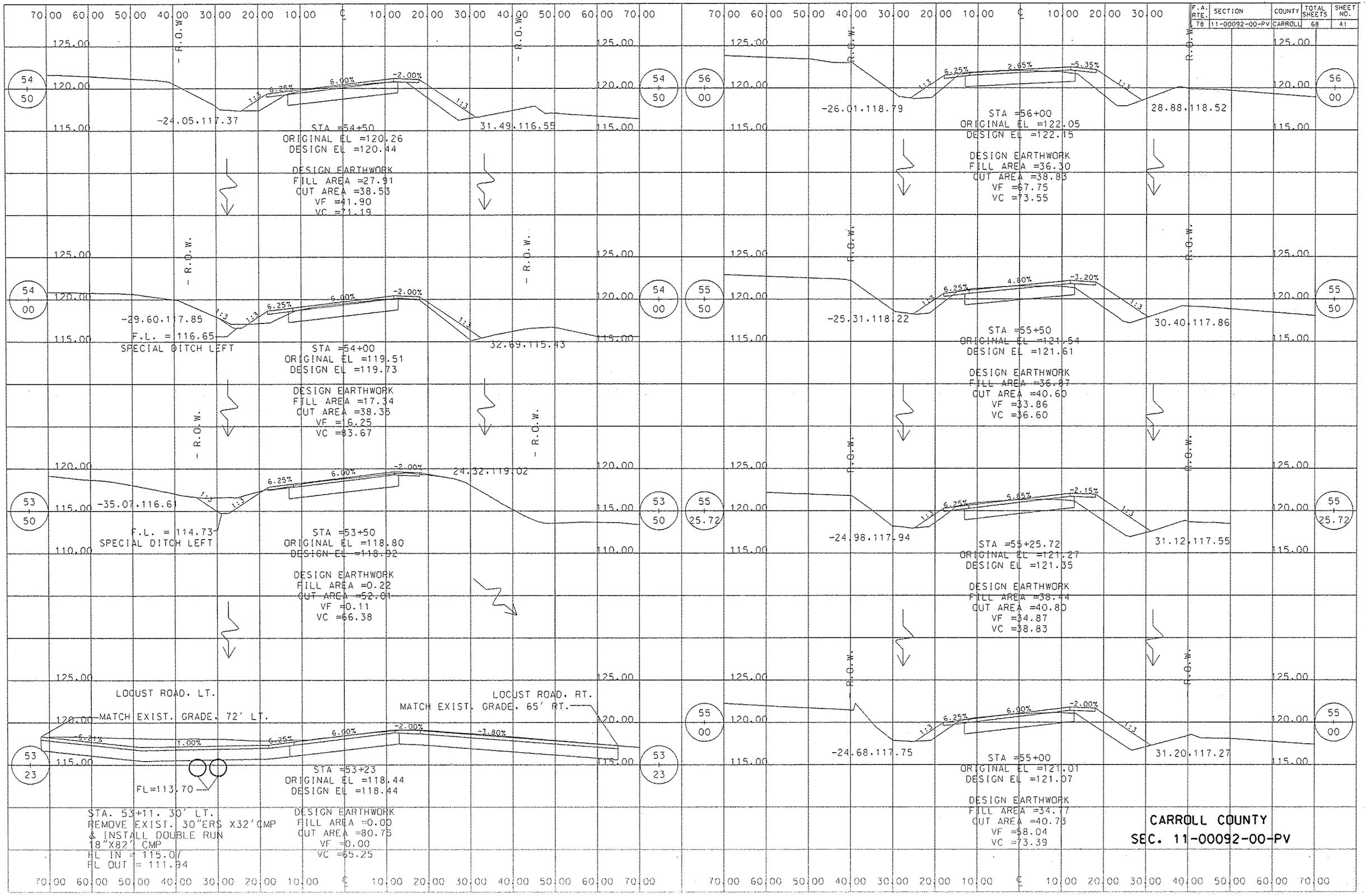
-24.39.111.50

FL=111.42

37.62.111.76

CARROLL COUNTY
SEC. 11-00092-00-PV

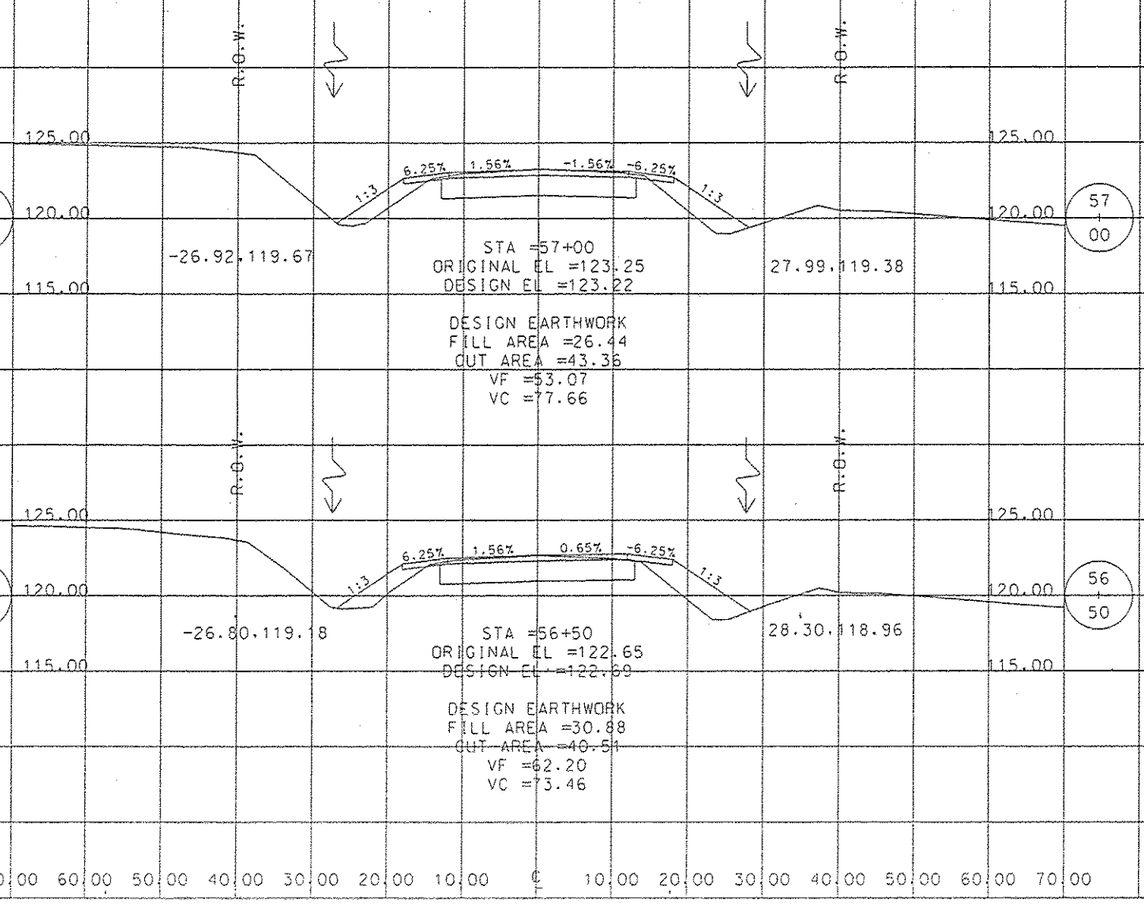
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	41



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	42

70 00 60 00 50 00 40 00 30 00 20 00 10 00 ℄ 10 00 20 00 30 00 40 00 50 00 60 00 70 00

STA. 57+50 – END FULL DEPTH RECONSTRUCTION; BEGIN FULL DEPTH RECLAMATION



CARROLL COUNTY
SEC. 11-00092-00-PV

70 00 60 00 50 00 40 00 30 00 20 00 10 00 ℄ 10 00 20 00 30 00 40 00 50 00 60 00 70 00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	66	43

STA =60+00
ORIGINAL EL =126.93
DESIGN EL =127.31

DESIGN EARTHWORK
FILL AREA =32.19
CUT AREA =0.00
VF =120.80
VC =0.00

STA =59+81.54
ORIGINAL EL =126.73
DESIGN EL =127.16

DESIGN EARTHWORK
FILL AREA =29.26
CUT AREA =31.34
VF =94.33
VC =94.97

STA =59+00
ORIGINAL EL =125.74
DESIGN EL =126.11

DESIGN EARTHWORK
FILL AREA =33.07
CUT AREA =0.00
VF =120.38
VC =0.00

STA =58+00
ORIGINAL EL =124.53
DESIGN EL =124.90

DESIGN EARTHWORK
FILL AREA =31.93
CUT AREA =0.00
VF =130.35
VC =0.00

STA. 57+50 - END FULL DEPTH RECONSTRUCTION; BEGIN FULL DEPTH RECLAMATION

STA =64+00
ORIGINAL EL =132.20
DESIGN EL =132.57

DESIGN EARTHWORK
FILL AREA =29.46
CUT AREA =0.00
VF =123.53
VC =0.00

STA =63+00
ORIGINAL EL =130.92
DESIGN EL =131.29

DESIGN EARTHWORK
FILL AREA =37.25
CUT AREA =0.00
VF =137.70
VC =0.00

STA =62+00
ORIGINAL EL =129.52
DESIGN EL =129.90

DESIGN EARTHWORK
FILL AREA =37.11
CUT AREA =0.00
VF =137.72
VC =0.00

STA =61+00
ORIGINAL EL =128.19
DESIGN EL =128.57

DESIGN EARTHWORK
FILL AREA =37.26
CUT AREA =0.00
VF =128.62
VC =0.00

CARROLL COUNTY
SEC. 11-00092-00-PV

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
76	111-00092-00-PV	CARROLL	66	44

STA =67+00
ORIGINAL EL =136.87
DESIGN EL =137.25

DESIGN EARTHWORK
FILL AREA =20.79
CUT AREA =0.00
VF =85.38
VC =0.00

-26.75,133.77

25.69,134.12

STA =72+00
ORIGINAL EL =146.45
DESIGN EL =146.83

DESIGN EARTHWORK
FILL AREA =26.86
CUT AREA =0.00
VF =100.26
VC =0.00

-28.74,142.63

24.89,143.97

STA =66+45
ORIGINAL EL =135.94
DESIGN EL =136.31

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =0.00
VF =0.00
VC =0.00

3.46%

-5.33%

FL=132.81

23.79,133.82

STA. 66+45, 30' LT., F.E. TY-1
REMOVE EXISTING 15" X 28' CMP
& INSTALL 15" X 46' CMP
WITH FLARED END SECTIONS

STA =71+00
ORIGINAL EL =144.58
DESIGN EL =144.96

DESIGN EARTHWORK
FILL AREA =27.28
CUT AREA =0.00
VF =99.69
VC =0.00

29.42,140.59

26.09,141.70

STA =66+00
ORIGINAL EL =135.17
DESIGN EL =135.54

DESIGN EARTHWORK
FILL AREA =25.31
CUT AREA =0.00
VF =94.48
VC =0.12

-28.58,131.45

24.03,132.97

STA =70+00
ORIGINAL EL =142.61
DESIGN EL =142.98

DESIGN EARTHWORK
FILL AREA =26.55
CUT AREA =0.00
VF =93.31
VC =0.00

-29.17,138.70

25.93,139.77

STA =65+32
ORIGINAL EL =134.13
DESIGN EL =134.50

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =0.00
VF =0.00
VC =0.00

1.41%

-28.55,130.45

STA. 65+32, 26' RT., P.E. TY-1
REMOVE EXISTING 15" X 30' CMP
& INSTALL 15" X 32' CMP
WITH FLARED END SECTIONS

STA =69+00
ORIGINAL EL =140.54
DESIGN EL =140.92

DESIGN EARTHWORK
FILL AREA =23.83
CUT AREA =0.00
VF =88.35
VC =0.00

-28.29,136.92

25.41,137.89

STA =65+00
ORIGINAL EL =133.62
DESIGN EL =133.99

DESIGN EARTHWORK
FILL AREA =25.71
CUT AREA =0.06
VF =102.16
VC =0.12

-28.22,130.02

25.53,130.92

STA =68+00
ORIGINAL EL =138.71
DESIGN EL =139.08

DESIGN EARTHWORK
FILL AREA =23.87
CUT AREA =0.00
VF =82.72
VC =0.00

-28.39,135.06

25.40,136.05

CARROLL COUNTY
SEC. 11-00092-00-PV

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
79	11-00092-00-PV	CARROLL	68	45

STA =76+00
ORIGINAL EL =153.74
DESIGN EL =154.11

DESIGN EARTHWORK
FILL AREA =20.51
CUT AREA =0.00
VF =81.34
VC =0.00

STA =75+00
ORIGINAL EL =152.04
DESIGN EL =152.42

DESIGN EARTHWORK
FILL AREA =23.41
CUT AREA =0.00
VF =84.81
VC =0.00

STA =74+40
ORIGINAL EL =150.92
DESIGN EL =151.29

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =0.00
VF =0.00
VC =0.00

STA =74+00
ORIGINAL EL =150.11
DESIGN EL =150.49

DESIGN EARTHWORK
FILL AREA =22.38
CUT AREA =0.00
VF =90.00

STA =73+00
ORIGINAL EL =148.28
DESIGN EL =148.65

DESIGN EARTHWORK
FILL AREA =26.21
CUT AREA =0.00
VF =98.29
VC =0.00

STA. 74+40. 26' RT., P.E. TY-2
REMOVE EXISTING 15" X 30' CMP
& INSTALL 15" X 32' CMP
WITH FLARED END SECTIONS

STA. 79+46. LT. F.E. TY-1
CONSTRUCT NEW FIELD ENTRANCE
NO CULVERT REQUIRED

STA =79+46
ORIGINAL EL =156.85
DESIGN EL =157.23

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =0.00
VF =0.00
VC =0.00

STA =79+00
ORIGINAL EL =156.69
DESIGN EL =157.06

DESIGN EARTHWORK
FILL AREA =16.93
CUT AREA =0.01
VF =71.67
VC =0.02

STA =78+50
ORIGINAL EL =156.41
DESIGN EL =156.78

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =0.00
VF =0.00
VC =0.00

STA. 78+50. 26' RT., P.E. TY-2
REMOVE EXISTING 15" X 30' CMP
& INSTALL 15" X 36' CMP
WITH FLARED END SECTIONS

STA =78+00
ORIGINAL EL =156.06
DESIGN EL =156.43

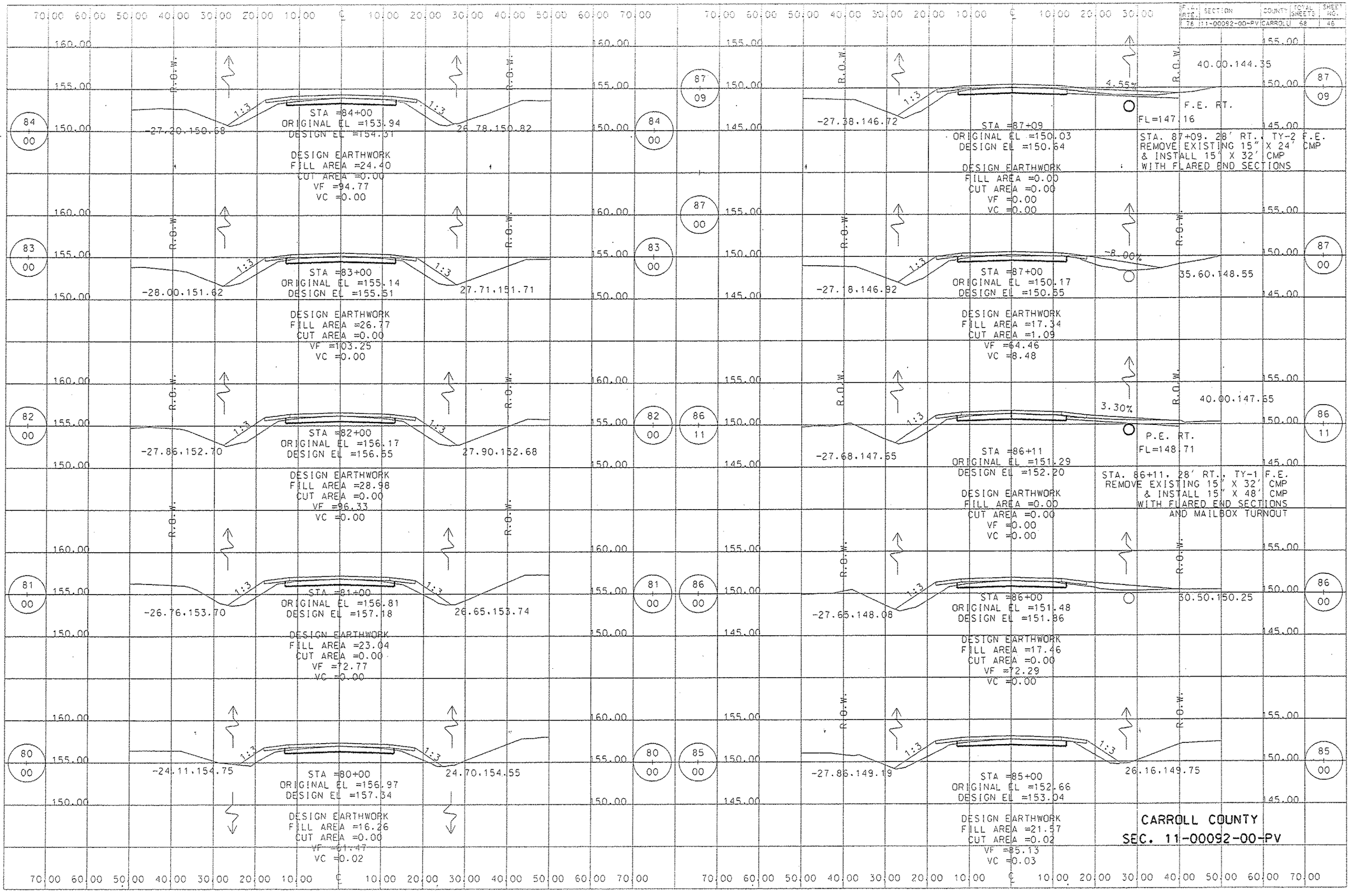
DESIGN EARTHWORK
FILL AREA =21.77
CUT AREA =0.00
VF =85.39
VC =0.00

STA =77+00
ORIGINAL EL =155.17
DESIGN EL =155.54

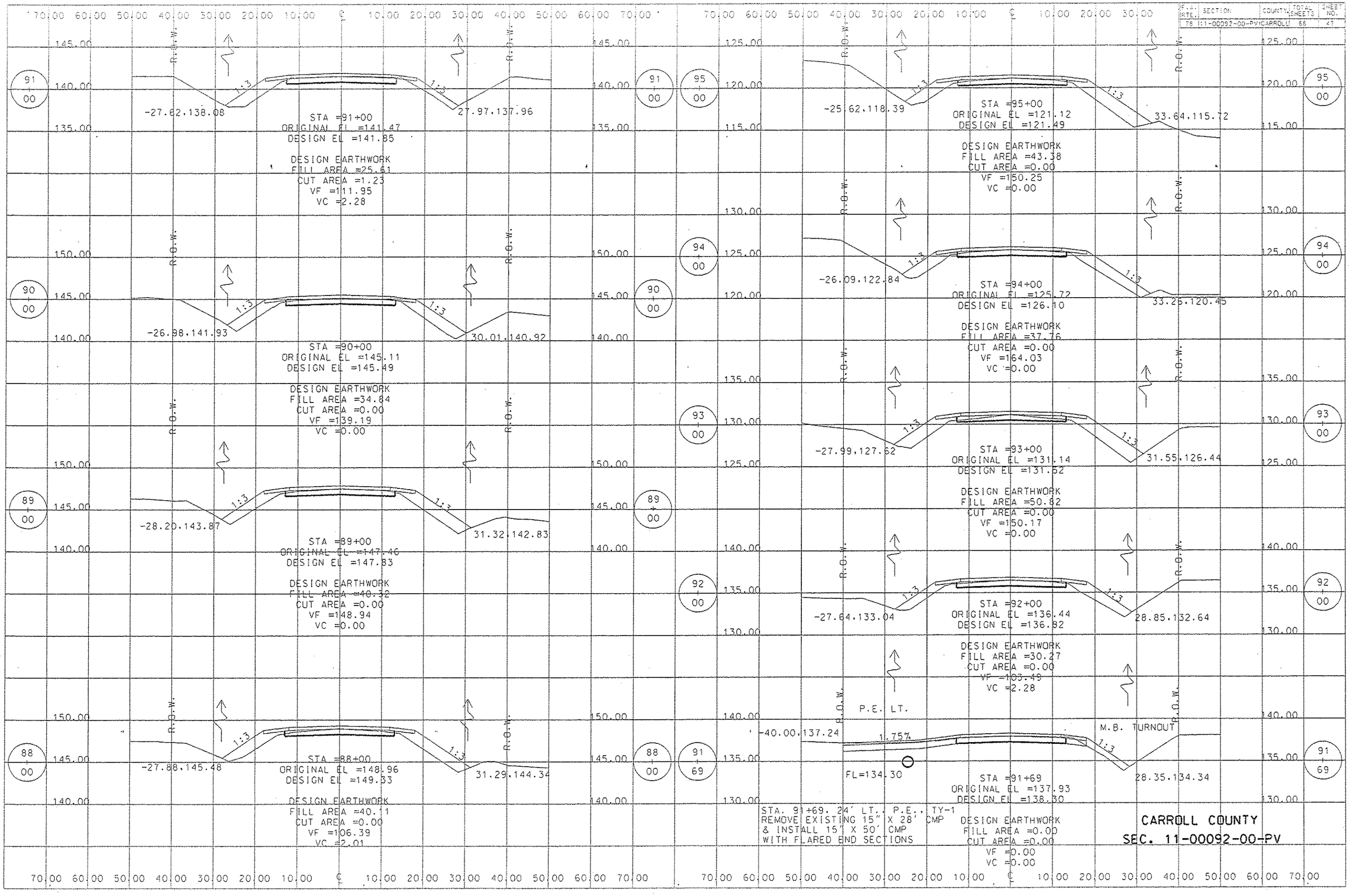
DESIGN EARTHWORK
FILL AREA =24.34
CUT AREA =0.00
VF =83.07
VC =0.00

CARROLL COUNTY
SEC. 11-00092-00-PV

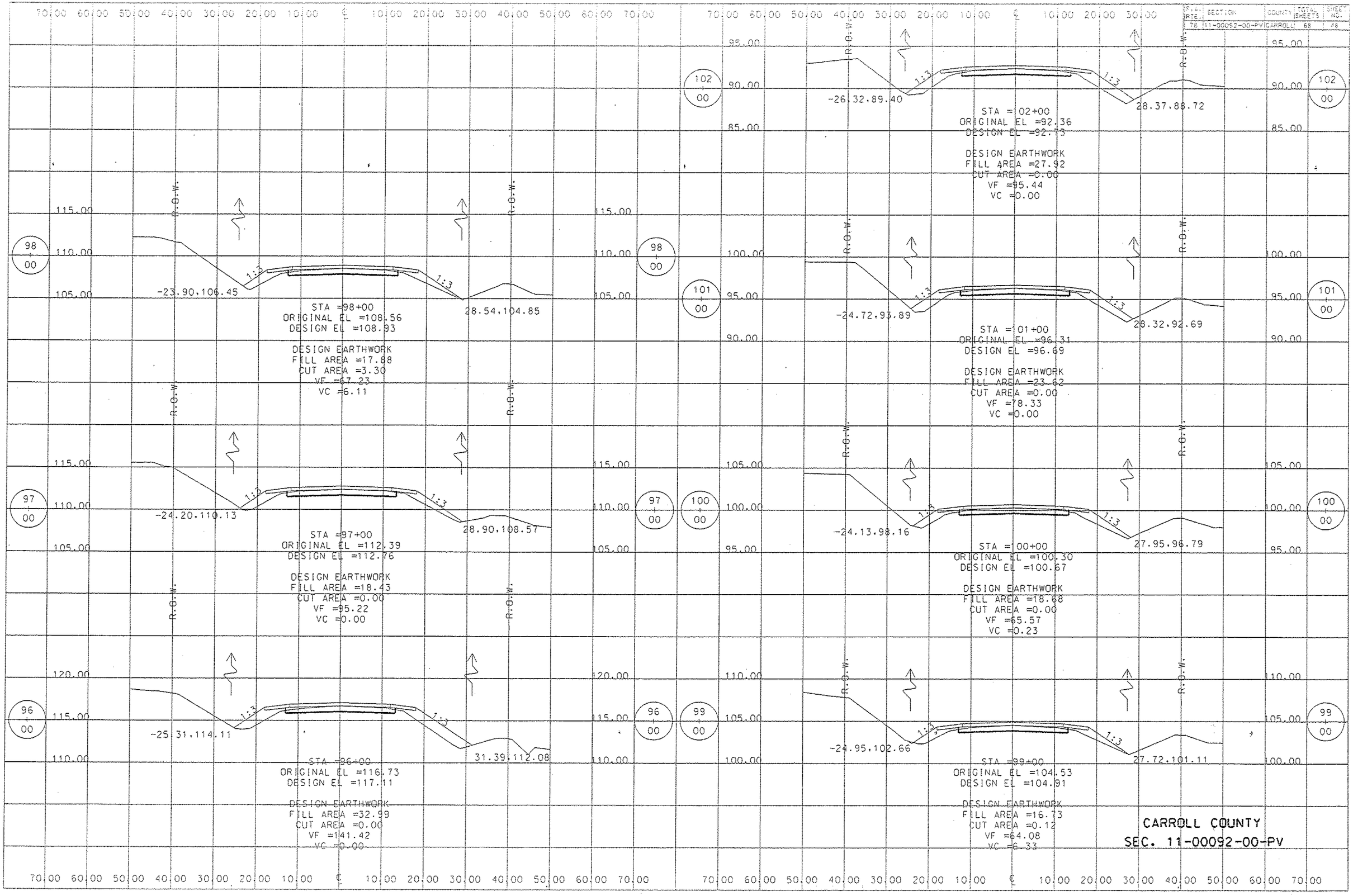
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
76	11-00092-00-PV	CARROLL	48	46



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	88	47

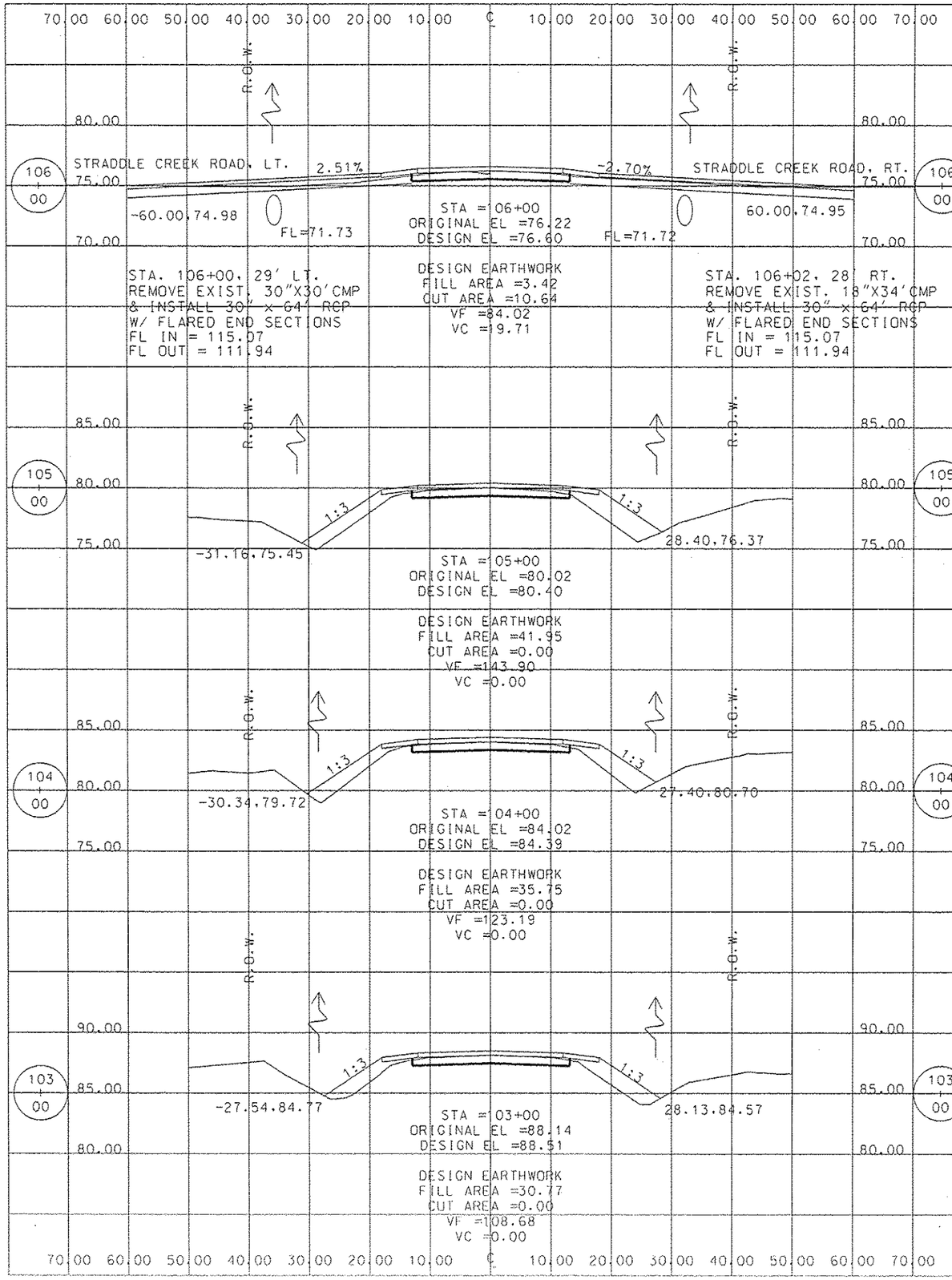


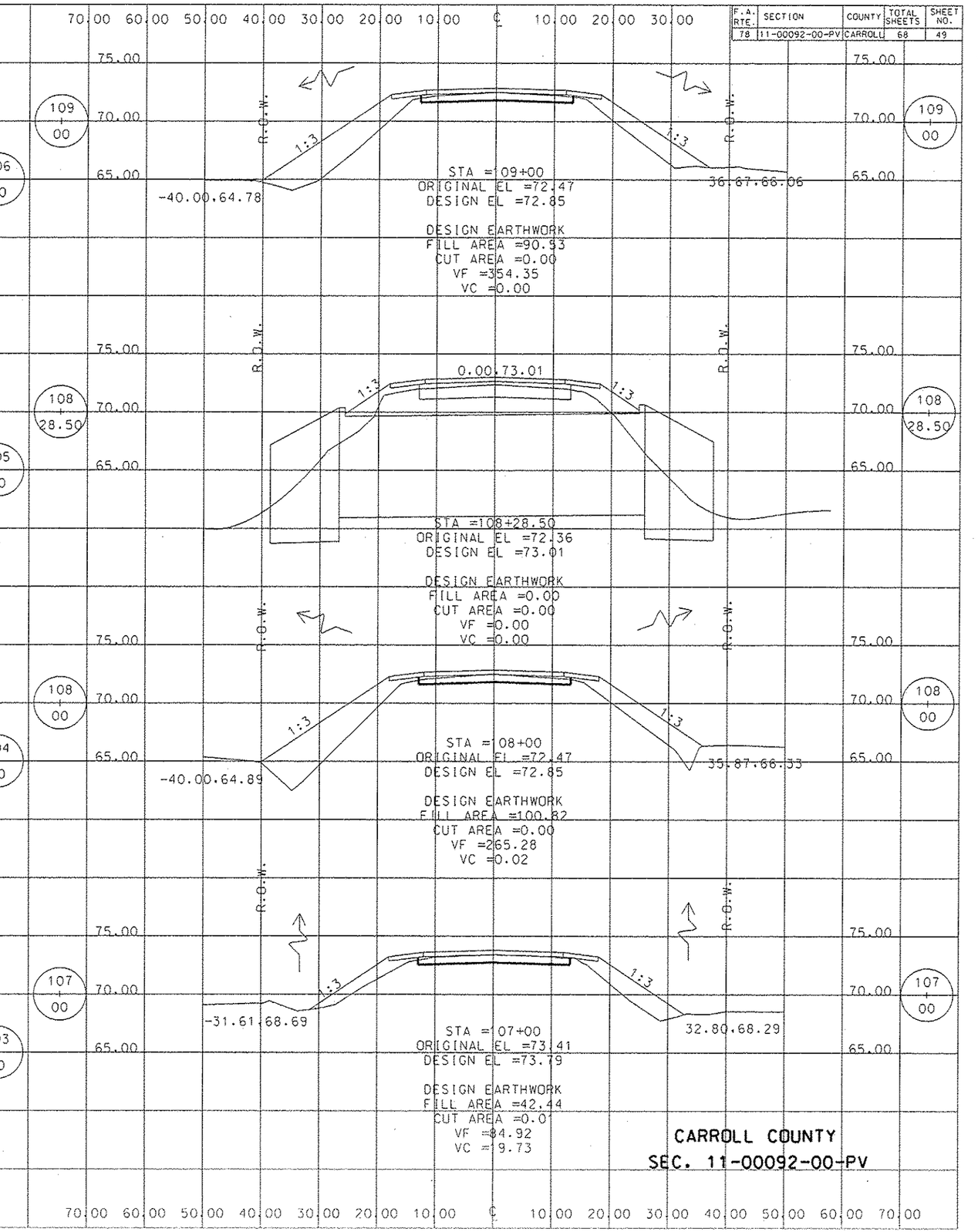
P.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
76	11-00092-00-PV	CARROLL	68	48



CARROLL COUNTY
SEC. 11-00092-00-PV

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	49





CARROLL COUNTY
SEC. 11-00092-00-PV

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	60	30

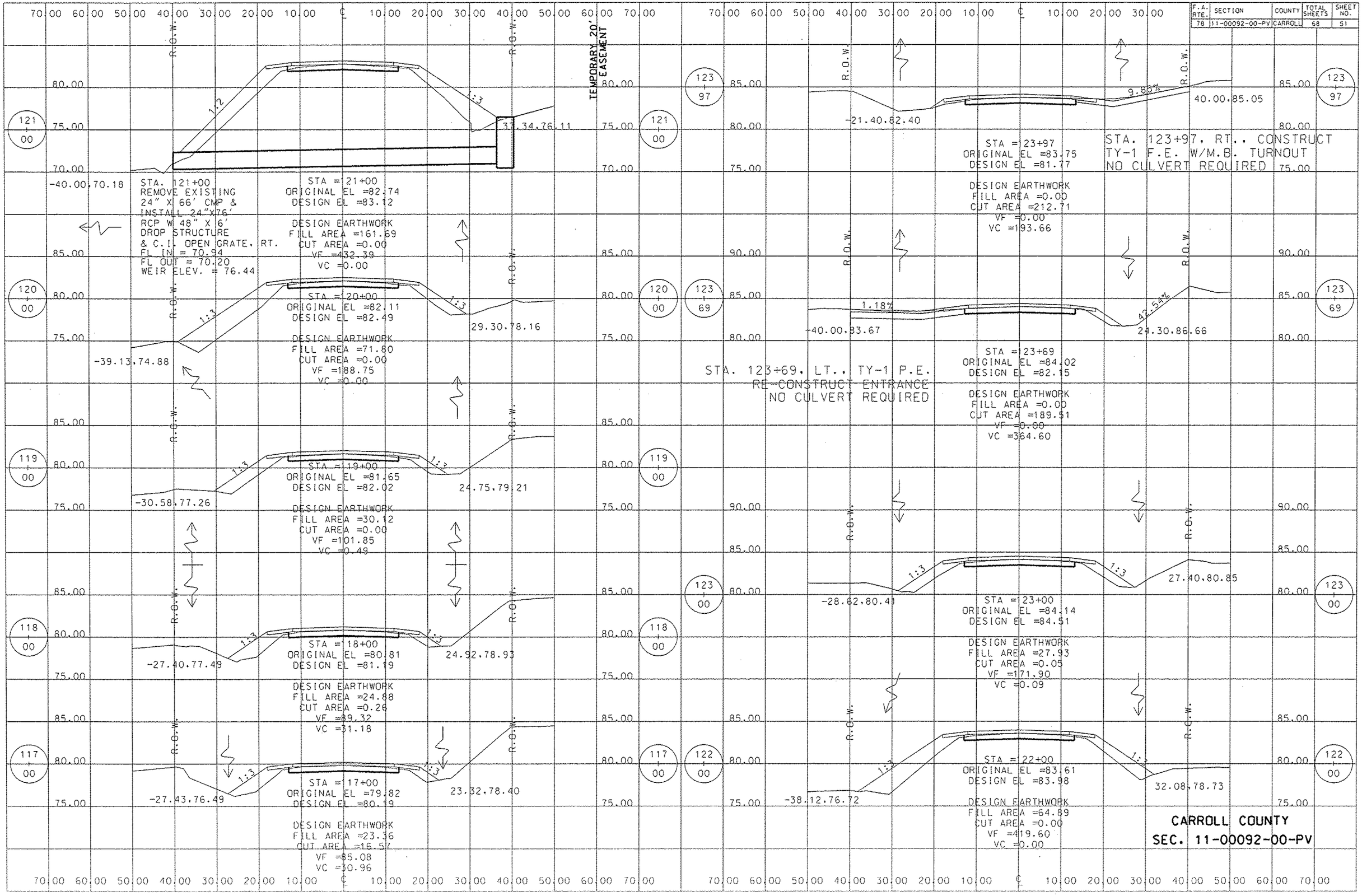
STA. 111+93, 24' LT., TY-1 F.E.
REMOVE EXISTING 15" X 26' CMP
& INSTALL 15" X 48' CMP
WITH FLARED END SECTIONS

STA. 111+88, 26' RT., TY-1 P.E.
REMOVE EXISTING 15" X 58' CMP
& INSTALL 15" X 64' CMP
WITH FLARED END SECTIONS
AND MAILBOX TURNOUT

STA. 113+46, 29' RT.
REMOVE EXISTING 21" X 32' CMP
& INSTALL 24" X 48' CMP
WITH FLARED END SECTIONS

CARROLL COUNTY
SEC. 11-00092-00-PV

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	51



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
76	11-00092-00-PV	CARROLL	68	52

STA =127+00
ORIGINAL EL =74.45
DESIGN EL =74.83

DESIGN EARTHWORK
FILL AREA =27.52
CUT AREA =0.07
VF =99.75
VC =0.13

-27.16.71.21

25.28.71.84

STA =126+00
ORIGINAL EL =78.65
DESIGN EL =79.03

DESIGN EARTHWORK
FILL AREA =26.34
CUT AREA =0.00
VF =88.23
VC =0.00

-25.68.75.91

25.23.76.06

STA =125+00
ORIGINAL EL =81.88
DESIGN EL =82.25

DESIGN EARTHWORK
FILL AREA =21.30
CUT AREA =0.00
VF =46.59
VC =33.22

-25.78.79.10

25.07.79.33

STA =124+00
ORIGINAL EL =83.74
DESIGN EL =84.11

DESIGN EARTHWORK
FILL AREA =3.86
CUT AREA =17.94
VF =58.87
VC =33.32

-25.55.82.07

18.00.83.54

F.E. RT.

STA =131+00
ORIGINAL EL =57.26
DESIGN EL =57.64

DESIGN EARTHWORK
FILL AREA =25.90
CUT AREA =1.15
VF =108.82
VC =3.14

-40.00.54.05

29.46.53.25

STA =130+00
ORIGINAL EL =60.11
DESIGN EL =60.49

DESIGN EARTHWORK
FILL AREA =32.86
CUT AREA =0.55
VF =96.87
VC =4.08

-27.92.56.62

27.61.56.72

STA =129+07
ORIGINAL EL =64.00
DESIGN EL =66.49

DESIGN EARTHWORK
FILL AREA =90.66
CUT AREA =0.00
VF =23.12
VC =0.00

-28.68.60.29

2.22%

FL=61.42

40.00.63.95

STA. 129+07, 29' RT., TY-1 P.E.
REMOVE EXISTING 15" X 32' CMP
& INSTALL 15" X 48' CMP
WITH FLARED END SECTIONS
AND MAILBOX TURNOUT

STA =129+00
ORIGINAL EL =64.50
DESIGN EL =64.88

DESIGN EARTHWORK
FILL AREA =19.45
CUT AREA =7.05
VF =81.27
VC =13.61

-28.32.60.87

F.E. RT.

FL=61.73

40.00.63.93

STA =128+00
ORIGINAL EL =69.49
DESIGN EL =69.86

DESIGN EARTHWORK
FILL AREA =24.44
CUT AREA =0.30
VF =96.23
VC =0.68

-26.43.66.49

25.70.66.74

SEC. 11-00092-00-PV

CARROLL COUNTY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TE	11-00092-00-PV	CARROLL	68	53

STA =133+00
ORIGINAL EL =57.19
DESIGN EL =57.57

DESIGN EARTHWORK
FILL AREA =94.28
CUT AREA =0.00
VF =354.00
VC =0.00

-25.09.54.64

44.63.48.13

STA =132+71
ORIGINAL EL =56.96
DESIGN EL =58.26

DESIGN EARTHWORK
FILL AREA =576.74
CUT AREA =8.72
VF =1060.23
VC =1.47

STA =132+00
ORIGINAL EL =56.60
DESIGN EL =56.98

DESIGN EARTHWORK
FILL AREA =96.88
CUT AREA =0.00
VF =227.37
VC =2.13

-40.00.49.05

36.51.50.25

F.E. LT.

14.04%

-40.00.53.75

STA =131+03
ORIGINAL EL =57.21
DESIGN EL =60.60

DESIGN EARTHWORK
FILL AREA =177.51
CUT AREA =0.00
VF =19.73
VC =0.00

FL=53.47

STA. 131+03, 32' LT.
REMOVE EXISTING 21" X 32' CMP
& INSTALL 24" X 48' CMP
WITH FLARED END SECTIONS

STA =136+00
ORIGINAL EL =59.90
DESIGN EL =60.27

DESIGN EARTHWORK
FILL AREA =55.07
CUT AREA =1.20
VF =448.55
VC =2.23

-40.00.51.57

40.00.52.23

STA =135+61
ORIGINAL EL =59.54
DESIGN EL =59.54

DESIGN EARTHWORK
FILL AREA =47.65
CUT AREA =49.55
VF =225.85
VC =107.74

-40.00.49.75

17.34%

38.93.55.64

F.E. RT.

STA. 135+61, TY-1 F.E.
NO CULVERT REQUIRED
FUTURE GRADE TO BE
DONE BY OTHERS

STA =135+00
ORIGINAL EL =59.03
DESIGN EL =59.41

DESIGN EARTHWORK
FILL AREA =187.15
CUT AREA =0.00
VF =685.15
VC =0.00

-40.00.47.40

45.00.48.34

STA =134+00
ORIGINAL EL =58.23
DESIGN EL =58.60

DESIGN EARTHWORK
FILL AREA =182.83
CUT AREA =0.00
VF =513.16
VC =0.00

-40.00.46.70

45.00.48.40

15.48%

-40.00.53.75

STA =133+20
ORIGINAL EL =57.42
DESIGN EL =58.05

DESIGN EARTHWORK
FILL AREA =67.55
CUT AREA =26.29
VF =77.34
VC =6.78

44.20.48.47

STA. 133+21, 12' LT.
CONSTRUCT TY-1 F.E.
NO CULVERT REQUIRED
FUTURE GRADE TO BE
DONE BY OTHERS

CARROLL COUNTY
SEC. 11-00092-00-PV

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	34

STA =140+00
ORIGINAL EL =62.53
DESIGN EL =62.90

DESIGN EARTHWORK
FILL AREA =14.59
CUT AREA =0.03
VF =71.36
VC =0.69

-25.33.59.90

25.68.59.78
STA. 140+00, 12' RT.
CONSTRUCT MAILBOX TURNOUT

SPECIAL DITCH
STA. 138+50 TO 139+50

STA =139+00
ORIGINAL EL =61.84
DESIGN EL =62.21

DESIGN EARTHWORK
FILL AREA =23.95
CUT AREA =0.34
VF =89.42
VC =0.63

-27.01.58.65

24.96.59.97
FL = 59.65

F.E. RT.
2.63%

STA =138+21
ORIGINAL EL =61.39
DESIGN EL =61.92

DESIGN EARTHWORK
FILL AREA =17.68
CUT AREA =33.08
VF =75.51
VC =24.38

-27.58.58.01

FL=59.35
40.00.60.60
STA. 138+21, 29' RT., TY-1 P.E.
REMOVE EXISTING 15" X 32' CMP
& INSTALL 15" X 36' CMP
WITH FLARED END SECTIONS
AND MAILBOX TURNOUT

STA =138+00
ORIGINAL EL =61.27
DESIGN EL =61.64

DESIGN EARTHWORK
FILL AREA =24.34
CUT AREA =0.00
VF =78.48
VC =3.27

-27.81.57.81

24.00.59.08

STA =137+00
ORIGINAL EL =60.71
DESIGN EL =61.08

DESIGN EARTHWORK
FILL AREA =18.05
CUT AREA =1.77
VF =135.39
VC =5.50

-27.90.57.22

25.14.58.14

STA =143+00
ORIGINAL EL =65.62
DESIGN EL =66.00

DESIGN EARTHWORK
FILL AREA =31.91
CUT AREA =0.00
VF =110.70
VC =0.00

-28.21.62.03

28.18.62.04

STA =142+00
ORIGINAL EL =64.62
DESIGN EL =65.00

DESIGN EARTHWORK
FILL AREA =27.87
CUT AREA =0.00
VF =98.64
VC =0.00

-27.85.61.15

27.56.61.25

F.E. RT.
0.02%

STA =141+73
ORIGINAL EL =64.34
DESIGN EL =65.13

DESIGN EARTHWORK
FILL AREA =24.60
CUT AREA =26.22
VF =88.66
VC =56.00

-27.52.60.92

27.86.63.84
FL=61.03
STA. 141+73, 28' RT., F.E. TY-1
REMOVE EXISTING 15" X 30' CMP
& INSTALL 15" X 46' CMP
WITH FLARED END SECTIONS

STA =141+00
ORIGINAL EL =63.42
DESIGN EL =63.80

DESIGN EARTHWORK
FILL AREA =25.40
CUT AREA =0.00
VF =74.05
VC =0.05

-26.68.60.34

26.41.60.43

F.E. LT.
2.79%

STA =140+17
ORIGINAL EL =62.68
DESIGN EL =63.71

DESIGN EARTHWORK
FILL AREA =22.95
CUT AREA =18.24
VF =75.92
VC =10.98

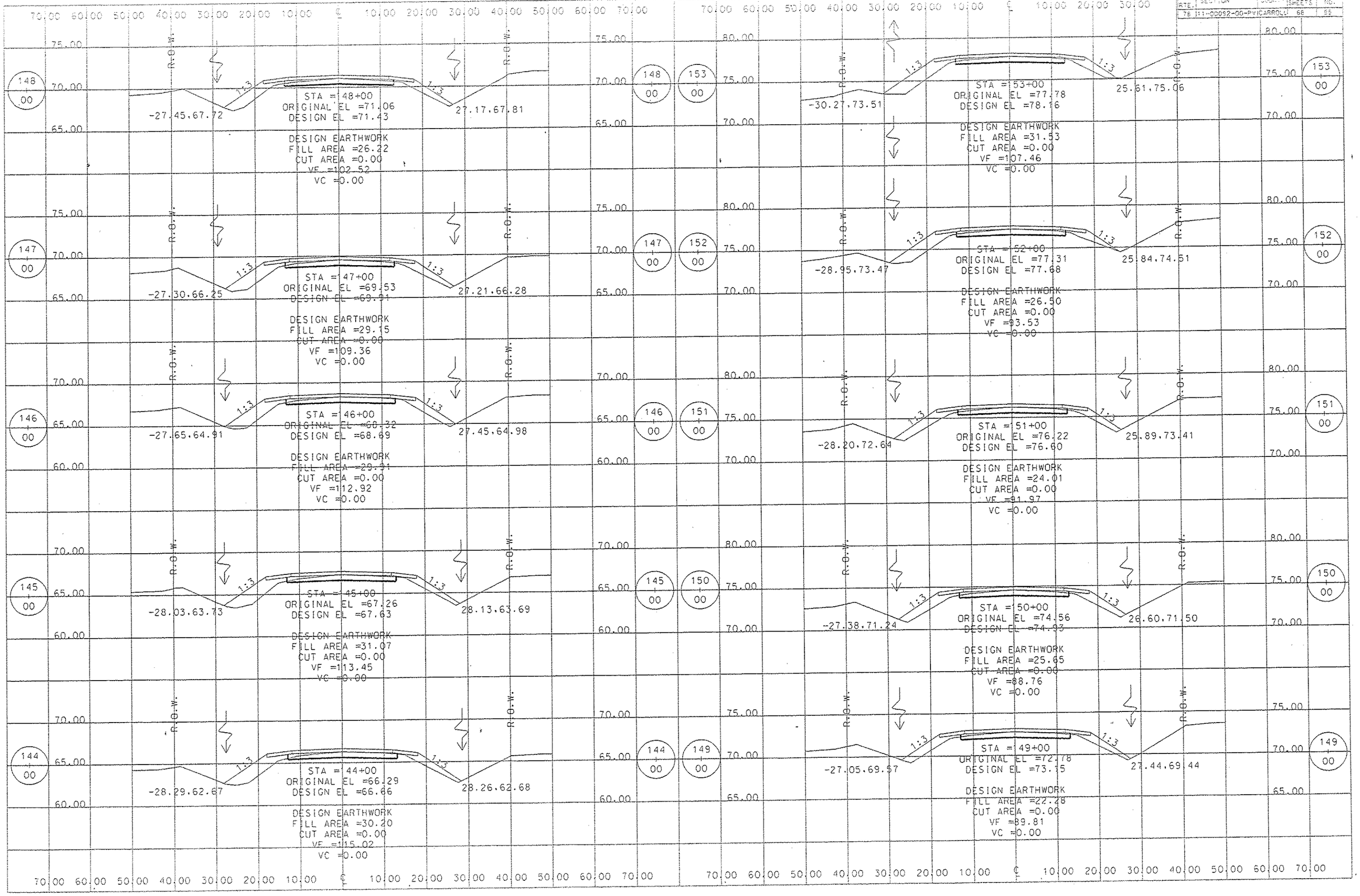
-40.00.61.85

FL=60.27
STA. 140+17, 29' LT., TY-1 F.E.
REMOVE EXISTING 15" X 32' CMP
& INSTALL 15" X 50' CMP
WITH FLARED END SECTIONS

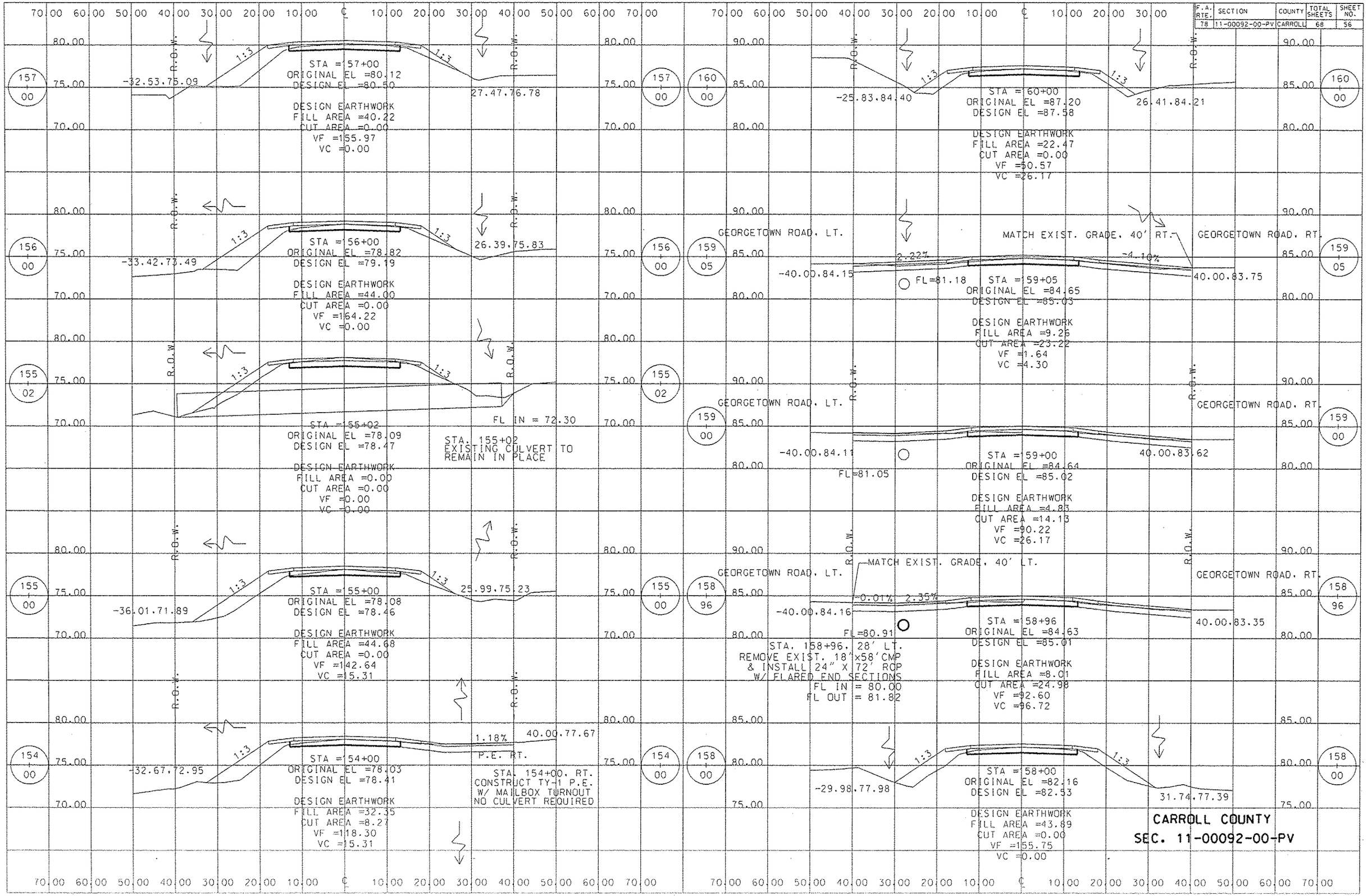
25.01.59.85

CARROLL COUNTY
SEC. 11-00092-00-PV

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	66	55



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	56



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	66	57

STA =165+00
ORIGINAL EL =101.86
DESIGN EL =102.23

-28.29,98.24 28.39,98.21

DESIGN EARTHWORK
FILL AREA =36.42
CUT AREA =0.00
VF =127.86
VC =0.00

STA =164+00
ORIGINAL EL =98.91
DESIGN EL =99.28

-26.90,95.76 26.94,95.74

DESIGN EARTHWORK
FILL AREA =32.63
CUT AREA =0.00
VF =109.98
VC =0.00

STA =163+00
ORIGINAL EL =95.87
DESIGN EL =96.25

-27.22,92.61 26.19,92.96

DESIGN EARTHWORK
FILL AREA =26.76
CUT AREA =0.00
VF =95.89
VC =0.00

STA =162+00
ORIGINAL EL =92.88
DESIGN EL =93.26

-26.02,90.02 26.58,89.83

DESIGN EARTHWORK
FILL AREA =25.02
CUT AREA =0.00
VF =103.51
VC =0.00

STA =161+00
ORIGINAL EL =90.01
DESIGN EL =90.38

-26.52,86.98 27.15,86.77

DESIGN EARTHWORK
FILL AREA =30.88
CUT AREA =0.00
VF =98.80
VC =0.00

STA =169+00
ORIGINAL EL =113.18
DESIGN EL =113.56

-28.54,109.48 28.82,109.39

DESIGN EARTHWORK
FILL AREA =41.00
CUT AREA =0.00
VF =153.45
VC =0.00

STA =168+00
ORIGINAL EL =110.19
DESIGN EL =110.57

-29.65,106.12 29.59,106.14

DESIGN EARTHWORK
FILL AREA =41.86
CUT AREA =0.00
VF =151.90
VC =0.00

STA =167+00
ORIGINAL EL =107.26
DESIGN EL =107.64

-29.41,103.27 29.79,103.15

DESIGN EARTHWORK
FILL AREA =40.17
CUT AREA =0.00
VF =147.54
VC =0.00

STA =166+00
ORIGINAL EL =104.69
DESIGN EL =105.07

-29.65,100.62 28.49,101.01

DESIGN EARTHWORK
FILL AREA =39.50
CUT AREA =0.00
VF =140.60
VC =0.00

STA =165+42
ORIGINAL EL =103.12
DESIGN EL =103.50

-30.76,99.49 40.00,102.00 FL=99.75

DESIGN EARTHWORK
FILL AREA =38.73
CUT AREA =12.36
VF =76.39
VC =18.82

STA. 165+42, 28' RT., TY-1 F.E.
REMOVE EXISTING 15" X 28' CMP
& INSTALL 15" X 46' CMP
WITH FLARED END SECTIONS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	66	58

STA. 173+08. LT.
CONSTRUCT TY-1 F.E.
NO CULVERT REQUIRED

STA =173+08
ORIGINAL EL =122.70
DESIGN EL =123.16

DESIGN EARTHWORK
FILL AREA =3.54
CUT AREA =79.65
VF =1.04
VC =23.78

STA =173+00
ORIGINAL EL =122.71
DESIGN EL =123.09

DESIGN EARTHWORK
FILL AREA =8.35
CUT AREA =14.30
VF =69.29
VC =26.47

STA =172+00
ORIGINAL EL =121.16
DESIGN EL =121.53

DESIGN EARTHWORK
FILL AREA =29.07
CUT AREA =0.00
VF =111.93
VC =0.00

STA =171+00
ORIGINAL EL =118.85
DESIGN EL =119.22

DESIGN EARTHWORK
FILL AREA =31.37
CUT AREA =0.00
VF =115.13
VC =0.00

STA =170+00
ORIGINAL EL =116.01
DESIGN EL =116.39

DESIGN EARTHWORK
FILL AREA =30.80
CUT AREA =0.00
VF =132.97
VC =0.00

STA =177+00
ORIGINAL EL =120.33
DESIGN EL =120.71

DESIGN EARTHWORK
FILL AREA =56.44
CUT AREA =0.00
VF =167.56
VC =0.00

STA =176+45 FL=117.59
ORIGINAL EL =120.78
DESIGN EL =121.16

DESIGN EARTHWORK
FILL AREA =35.36
CUT AREA =23.85
VF =60.71
VC =39.61

STA. 176+45. 29' RT.
REMOVE EXISTING 15' X 28' CMP
& INSTALL 15' X 46' CMP
WITH FLARED END SECTIONS

STA =176+00
ORIGINAL EL =121.40
DESIGN EL =121.78

DESIGN EARTHWORK
FILL AREA =34.05
CUT AREA =0.00
VF =114.41
VC =0.00

STA =175+00
ORIGINAL EL =122.95
DESIGN EL =123.33

DESIGN EARTHWORK
FILL AREA =27.74
CUT AREA =0.00
VF =99.62
VC =0.97

STA =174+00
ORIGINAL EL =123.28
DESIGN EL =123.66

DESIGN EARTHWORK
FILL AREA =26.06
CUT AREA =0.52
VF =63.72
VC =27.44

CARROLL COUNTY
SEC. 11-00092-00-PV

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	59

STA =180+00
ORIGINAL EL =123.52
DESIGN EL =123.90

DESIGN EARTHWORK
FILL AREA =42.67
CUT AREA =0.00
VF =160.23
VC =0.00

-29.38,119.54

25.24,120.92

STA =179+26
ORIGINAL EL =122.14
DESIGN EL =122.52

DESIGN EARTHWORK
FILL AREA =39.61
CUT AREA =22.51
VF =44.96
VC =18.36

-31.58,117.85

33.33%

0.46%

40.00,121.80

FL=119.56

STA. 179+26, 27' RT.
CONSTRUCT TY-2 P.E.
REMOVE EXISTING 15' X 24' CMP
& INSTALL 15" X 32' CMP
WITH FLARED END SECTIONS
AND MAILBOX TURNOUT

STA =179+00
ORIGINAL EL =121.58
DESIGN EL =121.95

DESIGN EARTHWORK
FILL AREA =43.86
CUT AREA =0.00
VF =173.75
VC =0.00

-31.15,117.01

25.54,118.88

STA =178+00
ORIGINAL EL =120.54
DESIGN EL =120.92

DESIGN EARTHWORK
FILL AREA =49.97
CUT AREA =0.00
VF =197.05
VC =0.00

-34.82,114.75

27.47,117.20

STA =177+25
ORIGINAL EL =120.34
DESIGN EL =121.26

DESIGN EARTHWORK
FILL AREA =99.89
CUT AREA =13.39
VF =80.13
VC =11.80

-40.00,112.93

40.00,118.16

WEIR=116.45

STA. 177+25
REMOVE EXISTING
2'X2'x41' RC BOX CULV
INSTALL 30"X70'
RCP WITH
60" BY 48" DEEP
RCP DROP STRUCTURE
FL IN = 113.16
FL OUT = 112.43
WEIR = 116.40

STA =185+00
ORIGINAL EL =130.33
DESIGN EL =130.70

DESIGN EARTHWORK
FILL AREA =16.26
CUT AREA =0.02
VF =90.19
VC =0.03

-24.21,128.21

25.63,127.60

STA =184+00
ORIGINAL EL =130.28
DESIGN EL =130.65

DESIGN EARTHWORK
FILL AREA =32.45
CUT AREA =0.00
VF =131.98
VC =0.00

-29.26,126.34

25.54,127.58

STA =183+00
ORIGINAL EL =129.50
DESIGN EL =129.87

DESIGN EARTHWORK
FILL AREA =38.82
CUT AREA =0.00
VF =109.61
VC =20.55

-29.30,125.54

25.67,126.75

STA =182+08
ORIGINAL EL =127.67
DESIGN EL =128.05

DESIGN EARTHWORK
FILL AREA =18.52
CUT AREA =45.13
VF =5.61
VC =12.70

-28.11,124.13

5.33%

7.73%

FL=124.99

STA. 182+08, 25' RT., TY-2 P.E.
REMOVE EXISTING 15" X 28' CMP
& INSTALL 15" X 36' CMP
WITH FLARED END SECTIONS
AND MAILBOX TURNOUT

30.96,127.82

STA =182+00
ORIGINAL EL =127.45
DESIGN EL =127.83

DESIGN EARTHWORK
FILL AREA =20.37
CUT AREA =11.10
VF =77.88
VC =21.97

-27.99,123.93

23.90,127.15

F.E. RT.
FL=124.86

STA =181+00
ORIGINAL EL =125.21
DESIGN EL =125.58

DESIGN EARTHWORK
FILL AREA =21.68
CUT AREA =0.77
VF =119.17
VC =1.42

-27.93,121.71

24.47,122.87

CARROLL COUNTY
SEC. 11-00092-00-PV

P.A. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	66	60

DIVISION STREET

STA =187+71
ORIGINAL EL =128.08
DESIGN EL =128.46

DESIGN EARTHWORK
FILL AREA =1.25
CUT AREA =77.43
VF =2.85
VC =195.91

-25.06,125.51

-7.32%

40.00,126.32

STA. 187+71, 28' RT.
CONSTRUCT TY-2 F.E.
REMOVE EXISTING 15" X 22' CMP
& INSTALL 15" X 32' CMP
WITH FLARED END SECTIONS

STA =187+00
ORIGINAL EL =129.19
DESIGN EL =129.57

DESIGN EARTHWORK
FILL AREA =20.55
CUT AREA =0.05
VF =61.95
VC =0.48

-25.52,126.50

26.18,126.28

STA =186+00
ORIGINAL EL =129.99
DESIGN EL =130.36

DESIGN EARTHWORK
FILL AREA =12.91
CUT AREA =0.2
VF =54.01
VC =0.43

-25.73,127.22

24.71,128.04

MATCH EXIST. GRADE, 40' RT.
DIVISION STREET
-7.02%

STA =185+66
ORIGINAL EL =130.11
DESIGN EL =130.49

DESIGN EARTHWORK
FILL AREA =0.64
CUT AREA =85.67
VF =0.63
VC =160.93

-24.73,127.67

40.00,128.35

6.23%

STA =185+14
ORIGINAL EL =130.26
DESIGN EL =130.64

-40.00,128.69

24.86,127.79

STA. 185+14, LT.
INSTALL TY-1 F.E.
W/ MAILBOX TURNOUT
NO CULVERT REQUIRED

DESIGN EARTHWORK
FILL AREA =0.01
CUT AREA =81.46
VF =0.05
VC =40.35

SUNSET COURT

-6.2%

STA =191+33
ORIGINAL EL =118.22
DESIGN EL =118.50

DESIGN EARTHWORK
FILL AREA =26.84
CUT AREA =15.81
VF =13.79
VC =18.73

-27.52,115.44

40.00,116.65

STA. 191+33, RT.
OVERLAY EXISITNG SIDEROAD
& INSTALL 15" METAL END SECTIONS
TO EXISTING 15" CMP

STA =191+00
ORIGINAL EL =119.29
DESIGN EL =119.67

DESIGN EARTHWORK
FILL AREA =32.04
CUT AREA =0.00
VF =111.58
VC =0.00

-26.42,116.30

28.71,115.53

STA =190+00
ORIGINAL EL =122.10
DESIGN EL =122.47

DESIGN EARTHWORK
FILL AREA =28.22
CUT AREA =0.00
VF =91.37
VC =0.00

-25.62,119.37

27.93,118.60

STA =189+00
ORIGINAL EL =125.00
DESIGN EL =125.58

DESIGN EARTHWORK
FILL AREA =21.12
CUT AREA =0.00
VF =80.84
VC =0.03

-25.38,122.36

26.39,122.02

STA =188+00
ORIGINAL EL =127.53
DESIGN EL =127.90

DESIGN EARTHWORK
FILL AREA =22.53
CUT AREA =0.0
VF =79.77
VC =0.11

-24.96,125.02

27.09,124.31

CARROLL COUNTY
SEC. 11-00092-00-PV

P.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	68	61

STA. 196+00 TO 201+00 - FINISH GRADE RECLAIMED MATERIAL TO PROPOSED GRADES

STA. 196+00 TO 201+00 - FINISH GRADE RECLAIMED MATERIAL TO PROPOSED GRADES

STA. 196+00 TO 201+00 - FINISH GRADE RECLAIMED MATERIAL TO PROPOSED GRADES

196+00
-26.03.104.37
STA =196+00
ORIGINAL EL =107.23
DESIGN EL =107.58
DESIGN EARTHWORK
FILL AREA =17.90
CUT AREA =4.35
VF =70.73
VC =8.44
8.41%
40.00.105.15
F.E. RT.
FL=104.33
STA. 196+00. 27' RT., TY-1 F.E.
REMOVE EXISTING 15" X 46' CMP
& INSTALL 15" X 48' CMP
WITH FLARED END SECTIONS

198+00
-37.68.98.75
STA =198+00
ORIGINAL EL =105.50
DESIGN EL =105.75
DESIGN EARTHWORK
FILL AREA =56.09
CUT AREA =0.00
VF =141.40
VC =5.80
35.53.99.47

195+00
-23.41.106.62
STA =195+00
ORIGINAL EL =108.51
DESIGN EL =108.88
DESIGN EARTHWORK
FILL AREA =20.29
CUT AREA =0.2
VF =85.85
VC =0.38
26.12.105.61

197+20
-24.88.104.10
-7.69%
40.00.104.55
STA =197+20
ORIGINAL EL =106.44
DESIGN EL =106.79
DESIGN EARTHWORK
FILL AREA =1.01
CUT AREA =47.62
VF =3.39
VC =35.03
STA. 197+20. 30' RT.
INSTALL TY-1 F.E.
NO CULVERT REQUIRED

194+00
-26.23.107.80
STA =194+00
ORIGINAL EL =110.73
DESIGN EL =111.11
DESIGN EARTHWORK
FILL AREA =26.07
CUT AREA =0.00
VF =99.83
VC =0.00
26.87.107.59

197+00
-28.56.102.96
STA =197+00
ORIGINAL EL =106.67
DESIGN EL =106.97
DESIGN EARTHWORK
FILL AREA =20.26
CUT AREA =3.13
VF =70.68
VC =3.86
26.64.105.36

193+00
-26.81.110.24
STA =193+00
ORIGINAL EL =113.37
DESIGN EL =113.74
DESIGN EARTHWORK
FILL AREA =27.64
CUT AREA =0.00
VF =106.54
VC =0.00
25.58.110.65

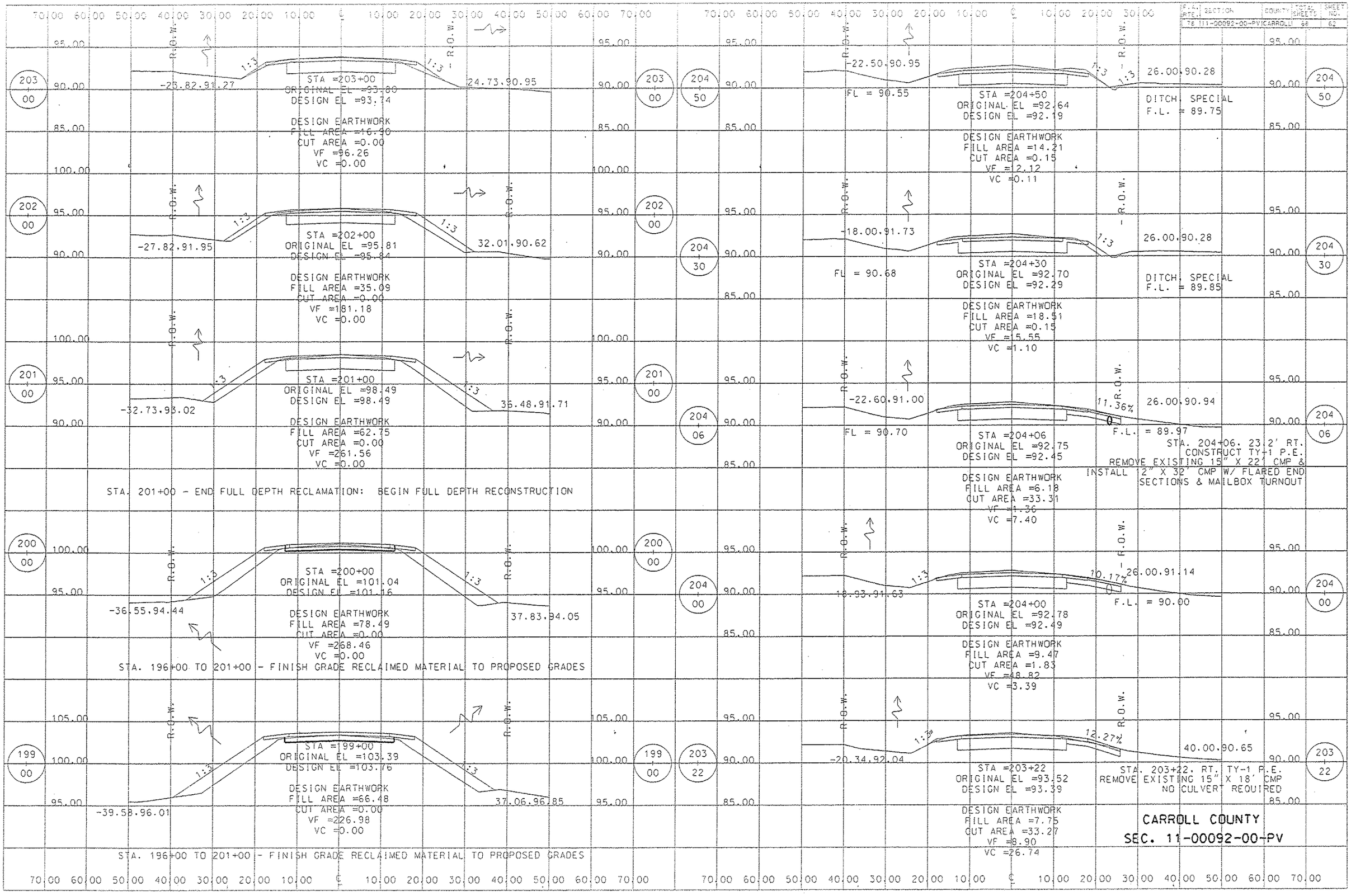
196+42.86
FL IN=103.80
FL OUT=102.70
STA. 196+43.40° RT AHD.
REMOVE EXISTING 24" E.R.S. X 68' CMP
& INSTALL 24" E.R.S. X 80' RCP
WITH 2 EACH FLARED END SECTIONS
STA =196+42.86
ORIGINAL EL =107.00
DESIGN EL =107.35
DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =0.00
VF =0.00
VC =0.00

192+00
-26.82.113.14
STA =192+00
ORIGINAL EL =116.27
DESIGN EL =116.64
DESIGN EARTHWORK
FILL AREA =29.69
CUT AREA =0.00
VF =114.32
VC =0.00
26.94.113.10

196+41
-28.07.106.01
5.68%
STA. 196+41, LT.
INSTALL TY-1 F.E.
NO CULVERT REQUIRED
STA =196+41
ORIGINAL EL =107.01
DESIGN EL =107.36
DESIGN EARTHWORK
FILL AREA =10.44
CUT AREA =43.50
VF =18.61
VC =54.77
25.54.103.81

CARROLL COUNTY
SEC. 11-00092-00-PV

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	111-00092-00-PV	CARROLL	66	62



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	68	63

STA =207+00
ORIGINAL EL =93.82
DESIGN EL =93.41

DESIGN EARTHWORK
FILL AREA =24.42
CUT AREA =0.16
VF =106.34
VC =0.29

-23.90.90.93

26.55.90.01

STA =206+00
ORIGINAL EL =93.21
DESIGN EL =92.55

DESIGN EARTHWORK
FILL AREA =33.01
CUT AREA =0.00
VF =98.07
VC =0.01

-21.91.90.65

25.33.89.55

STA. 205+45
REMOVE EXISTING
30" E.R.S. X 38' CMP &
INSTALL DOUBLE RUN
24" E.R.S. X 56'
RCP CULVERT W/ 4 EA FLARED ENDS
FL IN = 89.01
FL OUT = 88.73

-34.08.90.75

STA =205+44.85
ORIGINAL EL =92.89
DESIGN EL =92.20

DESIGN EARTHWORK
FILL AREA =27.32
CUT AREA =34.94
VF =37.22
VC =57.16

29.26.88.73

STA =205+00
ORIGINAL EL =92.64
DESIGN EL =92.10

DESIGN EARTHWORK
FILL AREA =19.95
CUT AREA =0.00
VF =54.48
VC =3.40

-18.87.91.27

29.36.89.53
F.L. = 88.95

STA. 204+89. 26' RT. CONSTRUCT TY-2 F.E.
REMOVE EXISTING 15" X 22' CMP
& INSTALL 15" X 32' CMP
WITH FLARED END SECTIONS

STA =204+89
ORIGINAL EL =92.59
DESIGN EL =92.10
DESIGN EARTHWORK
FILL AREA =9.01
CUT AREA =33.50
VF =2.10
VC =8.45

-18.51.91.40

12.33%
0
40.00.88.75
F.L. = 89.01

STA =209+50
ORIGINAL EL =95.03
DESIGN EL =95.14

DESIGN EARTHWORK
FILL AREA =12.39
CUT AREA =0.00
VF =58.86
VC =0.00

-23.39.93.10

27.74.93.85
DITCH, SPECIAL

STA =209+12
ORIGINAL EL =95.00
DESIGN EL =95.07

DESIGN EARTHWORK
FILL AREA =4.54
CUT AREA =43.99
VF =2.03
VC =19.91

-27.56.93.45
FL=92.84

8.60%
0
27.14.93.67
FL=92.18

STA. 209+12, 24' RT.
REMOVE EXIST. 12" X 24' CMP
& INSTALL 12" X 38' CMP
WITH FLARED END SECTIONS

STA =209+00
ORIGINAL EL =95.03
DESIGN EL =95.02

DESIGN EARTHWORK
FILL AREA =12.39
CUT AREA =0.00
VF =58.86
VC =0.00

-26.29.93.23
FL=92.76

31.31.93.55
FL = 92.05
DITCH, SPECIAL

STA =208+29
ORIGINAL EL =94.67
DESIGN EL =94.52

DESIGN EARTHWORK
FILL AREA =3.89
CUT AREA =51.27
VF =7.55
VC =48.57

-26.11.92.68
FL=92.28

3.00%
0
40.00.93.27
FL=91.28

STA. 208+29. 27' RT.
REMOVE EXISTING 15" X 28' CMP
& INSTALL 15" X 72' RCP
WITH FLARED END SECTIONS

STA =208+00
ORIGINAL EL =94.50
DESIGN EL =94.27
DESIGN EARTHWORK
FILL AREA =19.39
CUT AREA =0.10
VF =81.12
VC =0.48

-22.47.92.16

25.76.91.11

CARROLL COUNTY
SEC. 11-00092-00-PV

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
79	111-00092-00-PV	CARROLL	66	64

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

70 60 50 40 30 20 10 ℄ 10 20 30

R.O.W.

100.00 / 95.00 / 90.00

210 / 05

-20.94.93.85

1:3

-0.62%

33.50.94.29

FL=93.19

STA =210+05
ORIGINAL EL =95.00
DESIGN EL =94.96

DESIGN EARTHWORK
FILL AREA =0.28
CUT AREA =62.17
VF =0.06
VC =11.37

STA. 210+05, RT. P.E. TY-1
CONSTRUCT NEW ENTRANCE
NO CULVERTS REQUIRED

210 / 00

-21.49.93.62

FL=93.38

1:3

-0.62%

33.50.94.29

FL=93.14

STA =210+00
ORIGINAL EL =95.00
DESIGN EL =95.03

DESIGN EARTHWORK
FILL AREA =0.35
CUT AREA =60.59
VF =1.38
VC =57.74

209 / 72

-22.61.93.25

1:2

-3.16%

28.00.94.10

FL=92.83

STA =209+72
ORIGINAL EL =95.00
DESIGN EL =95.12

DESIGN EARTHWORK
FILL AREA =2.31
CUT AREA =50.76
VF =7.61
VC =105.27

STA. 209+72, RT. P.E. TY-1
CONSTRUCT NEW ENTRANCE
NO CULVERTS REQUIRED

211 / 50

-51.19.97.23

1:3

41.85.94.54

FL = 91.95

FL = 90.50

STA =211+50
ORIGINAL EL =94.77
DESIGN EL =94.53

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =65.38
VF =0.00
VC =118.68

211 / 00

-40.00.96.80

1:3

1:3

FL = 92.30

FL = 93.7

37.60.93.54

FL = 90.97

STA =211+00
ORIGINAL EL =94.95
DESIGN EL =94.55

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =62.79
VF =0.02
VC =36.92

210 / 84.32

-26.67.93.32

FL = 92.45

1:3

1:3

FL = 93.88

26.94.94.21

FL = 91.12

STA =210+84.32
ORIGINAL EL =95.01
DESIGN EL =94.61

DESIGN EARTHWORK
FILL AREA =0.05
CUT AREA =64.36
VF =3.27
VC =71.90

210 / 50

-18.79.94.17

FL = 93.30

1:3

24.04.92.21

STA =210+50
ORIGINAL EL =95.02
DESIGN EL =94.79

DESIGN EARTHWORK
FILL AREA =5.08
CUT AREA =48.76
VF =4.80
VC =104.27

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	11-00092-00-PV	CARROLL	56	55

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

100.00
95.00
90.00

211 + 82.03

STA =211+82.03
ORIGINAL EL =94.66
DESIGN EL =94.66

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =92.15
VF =0.00
VC =93.45

100.00
95.00
90.00

211 + 50

68.69, 98.03

1:3

FL = 91.95

STA. 211+50
INSTALL ERS 18" X 66' RCP
W/ CONC. END SECT. STD. 542011, 18" ERS, 1:6
W/ 11' 2" TRAVERSABLE PIPE GRATE
FL IN = 91.18, FL OUT = 90.44

STA =211+50
SKEWED 10° RT. AHD.
ORIGINAL EL =94.77
DESIGN EL =94.53

DESIGN EARTHWORK
FILL AREA =0.00
CUT AREA =65.38
VF =0.00
VC =118.68

℄ R.C.W.

41.85, 94.54

FL = 90.50

100.00
95.00
90.00

211 + 82.03

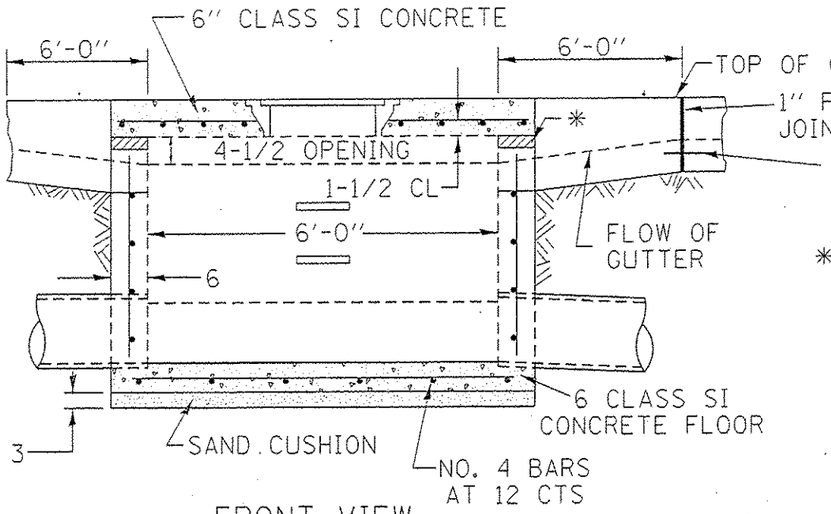
100.00
95.00
90.00

211 + 50

CARROLL COUNTY
SEC. 11-00092-00-PV

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

INLET SPECIAL NO. 5



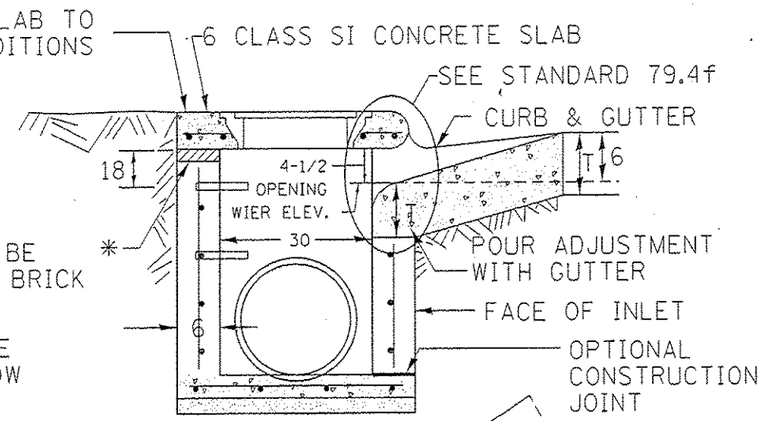
FRONT VIEW

STEPS AT 12 TO 16 CTS.

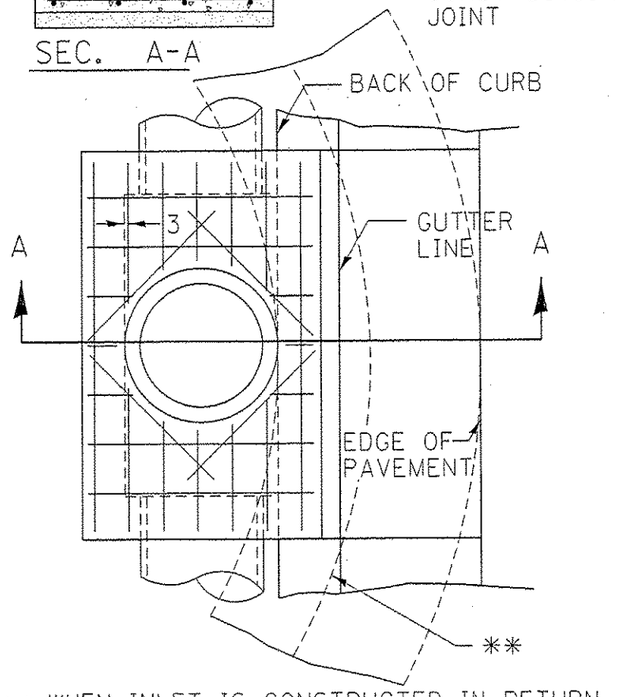
* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



SEC. A-A



** WHEN INLET IS CONSTRUCTED IN RETURN, THE TOP OF SLAB SHALL CONFORM TO THE RADIUS OF THE RETURN.

NOTES

STEPS SHALL BE OMITTED WHEN DEPTH OF INLET IS LESS THAN 5 FOOT

THE INLET SHALL BE CAST IN PLACE OR PRECAST.

EXCEPT AS NOTED HEREON INLET SPECIAL NO. 5 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO. 5 SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS, CAST IRON STEPS (IF USED).

THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.

THE CURB AND GUTTER ADJACENT TO AND 6 FOOT ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.

ALL PIPE UNDERDRAIN CONNECTIONS WHEN SPECIFIED SHALL BE DONE IN ACCORDANCE WITH ART. 601 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER (FOOT) FOR PIPE UNDERDRAINS (SPECIAL) OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16 AND THE CONNECTION TO THE INLET.

SEE STANDARD 602701 FOR DETAILS OF STEPS.

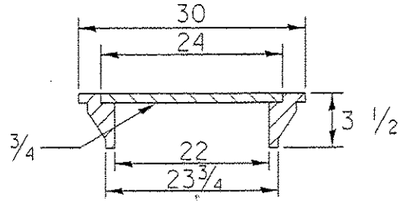
1" PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED TROUGHOUT.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.

REINFORCEMENT FOR INLET SPECIAL NO. 5 SHALL BE ACCORDING TO DISTRICT STANDARD 79.4g

LIGHT WEIGHT MANHOLE CASTING

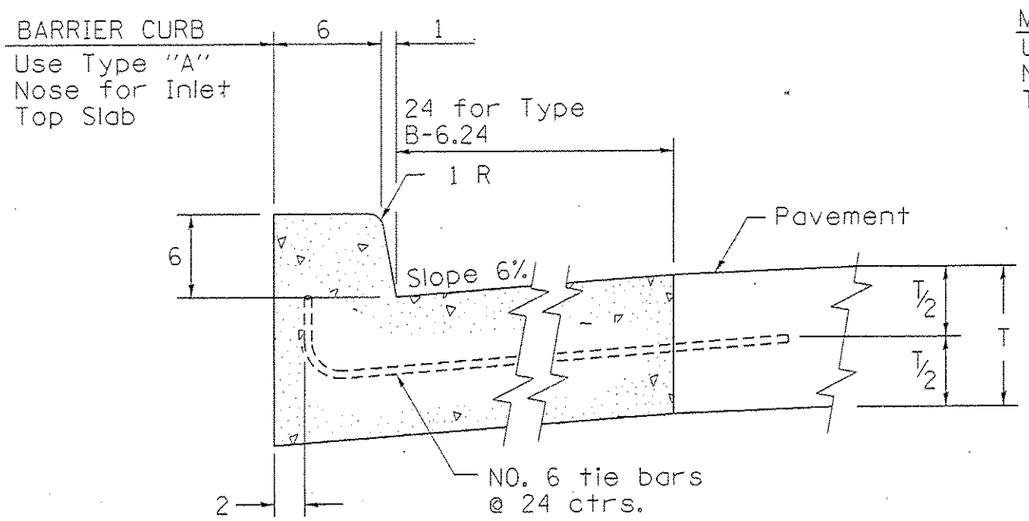


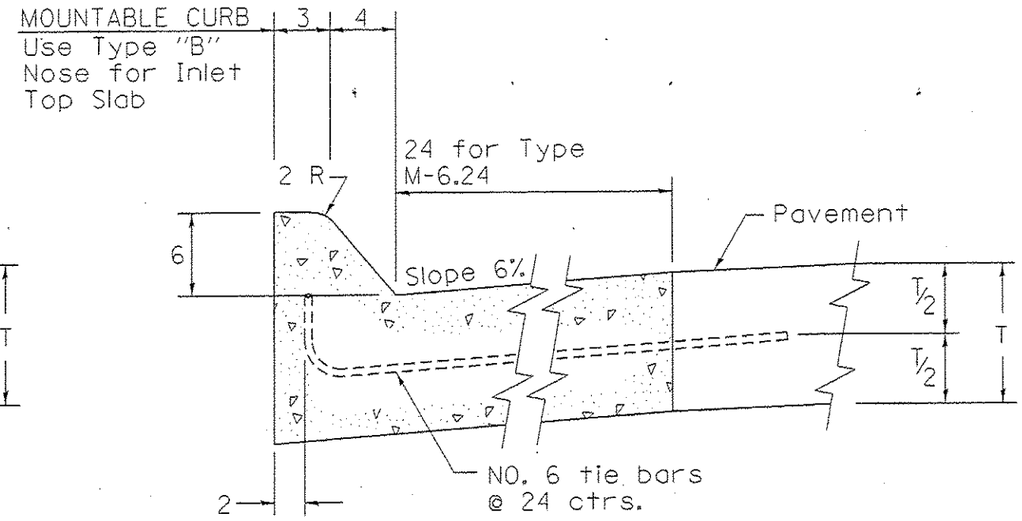
TOTAL WEIGHT 160 LBS.

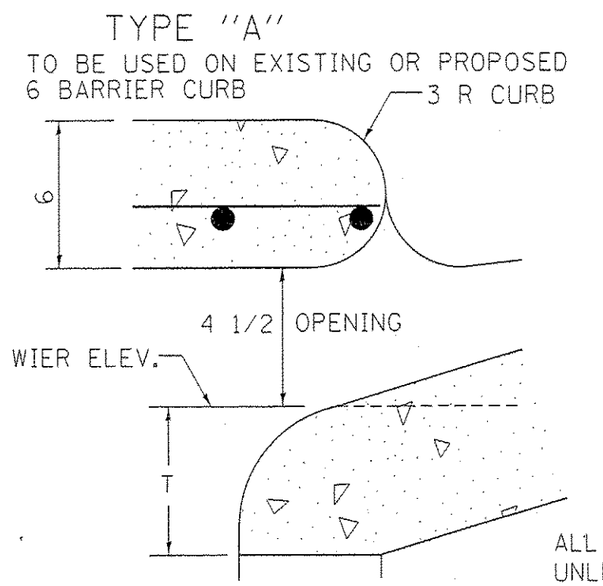
REVISED - 10-04-11	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -					78	11-00092-00-PV	CARROLL	68	66
REVISED -							CONTRACT NO.		
REVISED -	SCALE: 1.0000 ' / in.	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

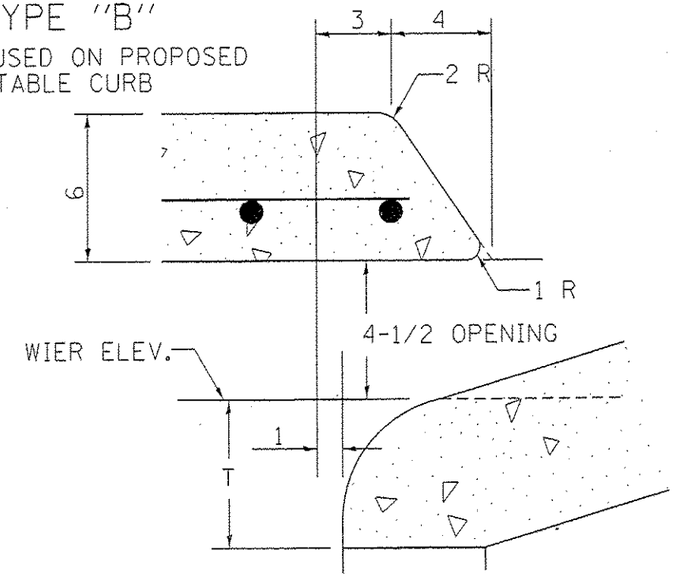
PLOT DATE = Tue Oct 09 09:37:03 2012

NOSE TYPE FOR INLET TOP SLAB









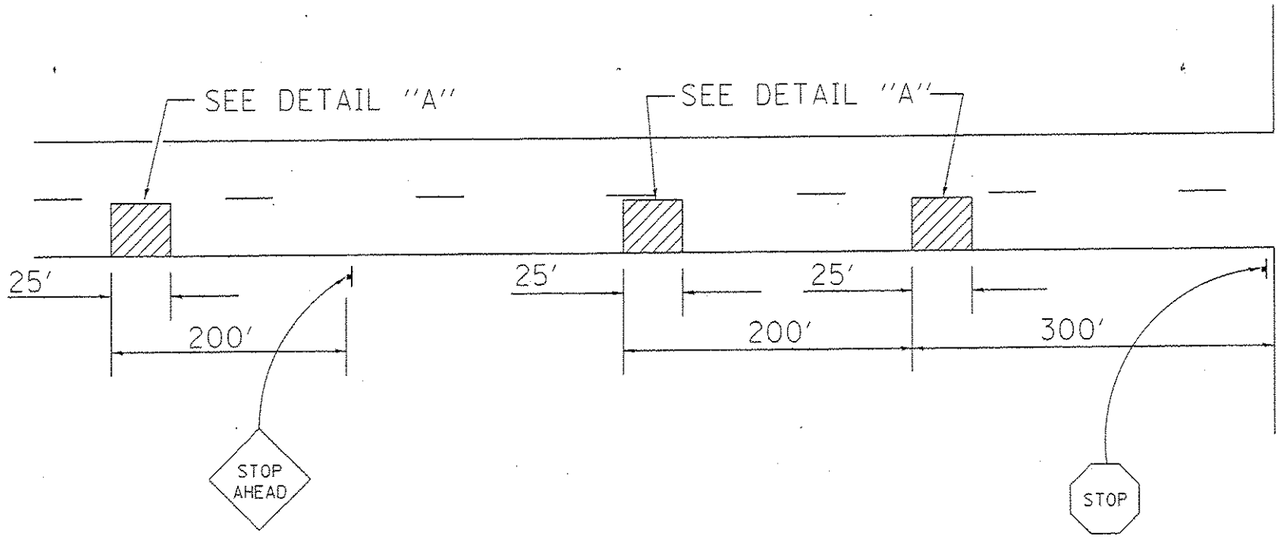
ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

REVISED - 10-05-11	**REGION 2 / DISTRICT 2 STANDARD**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -		78	11-00092-00-PV	CARROLL	68 / 67
REVISED -				CONTRACT NO.	
REVISED -	SCALE: 1.0000 ' / in. / SHEET NO. OF SHEETS / STA. / TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

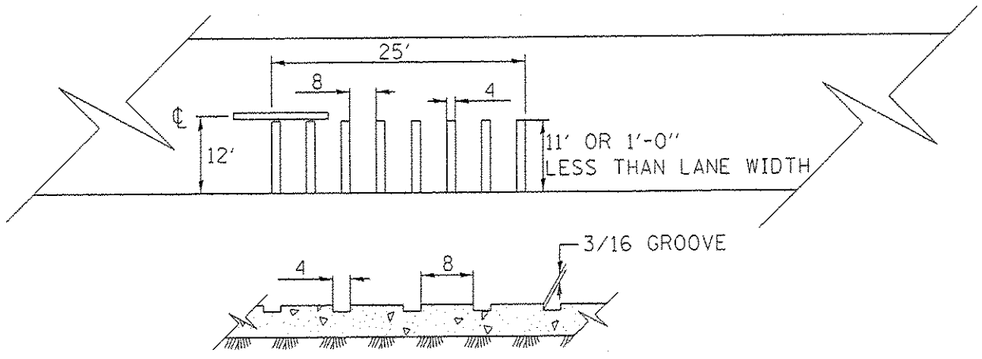
PLOT DATE = Tue Oct 09 09:37:06 2012

NOSE TYPE FOR INLET TOP SLAB **79.4f**

RUMBLE RESURFACING



GROOVED



DETAIL "A"

NOTES

THE GROOVES SHALL BE CONSTRUCTED WITH A MILLING MACHINE CAPABLE OF COLD MILLING THE EXISTING SURFACE IN THE PATTERN SHOWN.

RUMBLE RESURFACING SHALL BE MEASURED FOR PAYMENT IN PLACE AND THE AREA COMPUTED IN SQUARE YARDS. THE LENGTH SHALL BE THE DISTANCE FROM OUTSIDE EDGE TO OUTSIDE EDGE OF THE GROOVE WHICH WILL BE APPROXIMATELY 25'. THE WIDTH SHALL BE 1' LESS THAN LANE WIDTH.

RUMBLE STRIPS SHALL BE CONSTRUCTED AS SHOWN AND PAID FOR PER SQUARE YARD AS RUMBLE RESURFACING..

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

PLOT DATE = Tue Mar 19 11:40:24 2013

REVISED - 10-05-11	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -			78	11-00092-00-PV	CARROLL	68	68
REVISED -					CONTRACT NO.		
REVISED -	SCALE: 1.0000 ' / in.	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

RUMBLE RESURFACING **91.4**