

04-27-12 LETTING ITEM 188

INDEX OF SHEETS

FOR INDEX OF
PLAN SHEETS SEE
SHEET NUMBER 2 OF
62 SHEETS

HIGHWAY STANDARDS

FOR LIST OF
HIGHWAY STANDARDS
SEE SHEET NUMBER 2
OF 62 SHEETS

BEGIN PROJECT
STA 8 + 75.50

STA EQUATION
STA 90 + 00 BK =
STA 75 + 05.45AH

DESIGN INFORMATION

DESIGN CLASSIFICATION: COLLECTOR
CURRENT ADT: 900
DESIGN YEAR ADT: 1150
DESIGN YEAR: 2030
DESIGN SPEED 50 M.P.H.

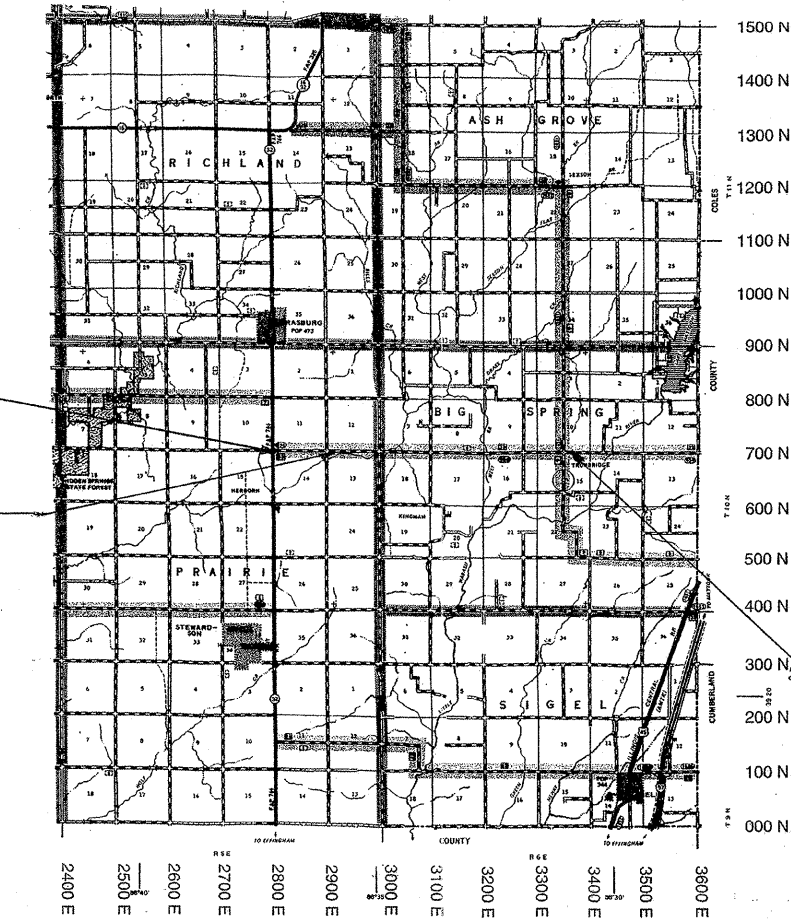
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 (TOLL FREE)

CONTRACT NO. 95670

PLANS PREPARED BY:
SHELBY CO HWY DEPT
R. R. 3 BOX 38A
SHELBYVILLE IL 62565
217-774-2721

STATE OF ILLINOIS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
SURFACE TRANSPORTATION
PROGRAM RURAL

SECTION 09-00271-00-RS
SHELBY COUNTY
FAS ROUTE 656
PROJECT NO. RS-0656(112)
JOB NO. C-97-031-12
NEOGA ROAD PROJECT



PROJECT LOCATION MAP
29619.05 FEET = 5.61 MILES = NET LENGTH OF SECTION

PLANS PREPARED BY:

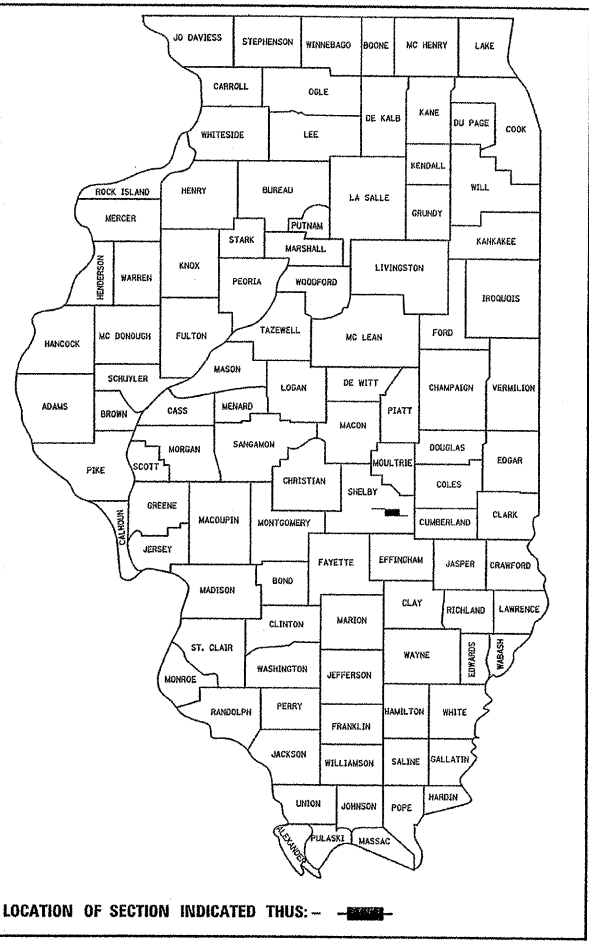


S. ALAN SPESARD, COUNTY ENGINEER, PE
ILLINOIS PROFESSIONAL ENGINEER 062-052965
EXPIRES 11-30-2013

1-11-2012
DATE

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	09-00271-00-RS	SHELBY	62	1

CONTRACT NO. 95670
NEOGA ROAD PROJECT



APPROVED 1-11-2012
S. Alan Spesard
COUNTY ENGINEER, SHELBY COUNTY

PASSED 3-6-2012
M. J. K. K. K.
District Seven Engineer of
Local Roads and Streets

RELEASING FOR
BID BASED ON
LIMITED REVIEW 3-6-2012
R. J. K. K. K.
DEPUTY DIRECTOR OF HIGHWAYS, REGION 4 ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES					
ITEM #	ITEM	UNIT	RESURFACING QUANTITY	RECONSTRUCTION QUANTITY	TOTAL QUANTITY
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	0	36	36
20100500	TREE REMOVAL, ACRES	ACRE	0	0.2	0.2
20200100	EARTH EXCAVATION	CU YD	0	14618	14618
20200500	EARTH EXCAVATION (WIDENING)	CU YD	108	0	108
20400800	FURNISHED EXCAVATION	CU YD	0	561	561
20800150	TRENCH BACKFILL	CU YD	0	51	51
21301072	EXPLORATION TRENCH 72" DEPTH	FOOT	0	100	100
21400100	GRADING AND SHAPING DITCHES	FOOT	0	183	183
25000200	SEEDING, CLASS 2	ACRE	0	10.1	10.1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	0	909	909
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	0	909	909
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	0	909	909
25100115	MULCH, METHOD 2	ACRE	0	10.1	10.1
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	0	4050	4050
28000305	TEMPORARY DITCH CHECKS	FOOT	0	416	416
28000400	PERIMETER EROSION BARRIER	FOOT	0	350	350
28000500	INLET AND PIPE PROTECTION	EACH	0	24	24
28100205	STONE RIPRAP, CLASS A3	TON	0	157	157
30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	0	22856	22856
30201500	LIME	TON	0	527	527
35100100	AGGREGATE BASE COURSE, TYPE A	TON	0	306	306
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	60	334	394
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	5183	0	5183
40600300	AGGREGATE (PRIME COAT)	TON	103	0	103
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	2988	0	2988
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	183	0	183
40600990	TEMPORARY RAMP	SQ YD	40	0	40
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	4482	0	4482
40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	112	0	112
40800030	AGGREGATE (PRIME COAT)	TON	10	0	10
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	112	0	112
42000301	PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)	SQ YD	0	20643	20643
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	0	158	158
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	0	302	302
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	1377	0	1377
44213200	SAW CUTS	FOOT	1658	0	1658
48100100	AGGREGATE SHOULDERS, TYPE A	TON	1583	3435	5018
48203100	HOT-MIX ASPHALT SHOULDERS	TON	242	0	242
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SQ YD	0	135	135
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	0	1	1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	0	1	1
54010604	PRECAST CONCRETE BOX CULVERTS 6' X 4'	FOOT	0	20	20
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	0	109	109
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	0	116	116
542A5485	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FOOT	0	40	40
542A5491	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	0	53	53
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	0	346	346
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	0	144	144
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	0	54	54
542D5470	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 15"	FOOT	0	190	190
542D5473	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 18"	FOOT	0	34	34
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	0	1	1
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	0	4	4
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	0	4	4
54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	0	2	2
54214521	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"	EACH	0	2	2
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	0	144	144
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	0	694	694
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	0	908	908
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	0	4	4
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	0	6	6
X6060340	GUTTER OUTLET (SPECIAL)	EACH	0	4	4
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	0	177	177
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	0	71	71
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	2	6	8
67100100	MOBILIZATION	L SUM	0.5	0.5	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	0.5	0.5	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	2	8	10
70300100	SHORT TERM PAVEMENT MARKING	FOOT	6360	812	7172
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	700	268	968
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	60915	0	60915
78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	24	0	24
78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	0	22280	22280
78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	0	30	30
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	288	102	390
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	288	0	288
Z0004560	BRIDGE WEARING SURFACE REMOVAL	SQ YD	487	0	487
Z0062000	SAW CUTTING	FOOT	164	0	164
Z0070200	SURVEY MONUMENTS	EACH	7	3	10
X2140100	GRADING & SHAPING DITCH, SPECIAL	FOOT	0	1383	1383

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	09-00271-00-RS	SHELBY	62	2

NEOGA PROJECT
CONTRACT NO. 95670

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INDEX OF STANDARDS

STANDARD NUMBER	STANDARD NAME
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREA OF REINFORCEMENT BARS
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420101-04	24' JOINTED PCC PAVEMENT
442201-03	CLASS C AND D PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-02	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
602301-03	INLET TY A
602401-03	MANHOLE TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
604036-02	GRATE TYPE 8
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER
606006-02	OUTLETS FOR CONCRETE CURB & GUTTER TYPE B 6.24 (B15.60)
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-RD OPERATIONS 2L 2W MORE THAN 15' AWAY
701006-03	OFF-RD OPERATIONS, 2L 2W, 15' TO 24' FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS 2L 2W DAY ONLY
701201-04	LANE CLOSURE 2L, 2W DAY ONLY FOR SPEEDS > 45 MPH
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
701901-02	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 24-2	MAIL BOX TURNOUT FOR LOCAL ROADS

SHELBY COUNTY
NEOGA ROAD PROJECT
F.A.S. 656
SECTION 09-00271-00-RS
DETAILS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	09-00271-00-RS	SHELBY	62	3

NEOGA PROJECT
CONTRACT NO. 95670

GENERAL NOTES FOR RECONSTRUCTION

WHEREVER IN THE PLANS OR SPECIFICATIONS THE TERM STANDARD SPECIFICATIONS IS USED, IT SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AND ADOPTED JANUARY 1, 2012.

ALL ELEVATIONS SHOWN ARE IN REFERENCE TO A U.S.G.S. DATUM.

WHERE SECTION, SUB-SECTION MARKERS, OR U.S. ARMY CORPS OF ENGINEER MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE DEPARTMENT AND AUTHORIZED AGENT OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

FOR THE SUGGESTED SEQUENCE OF OPERATIONS SEE THE CONTRACT SPECIAL PROVISIONS.

EXISTING ROAD SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED THE CONTRACTOR.

ALL STREET RETURNS SHALL HAVE RADII MEASURED TO THE EDGE OF THE PAVEMENT UNLESS OTHERWISE NOTED ON THE PLANS.

ACCESS TO ALL ENTRANCES SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THIS SECTION.

EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS & MUST BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CONTACT J.U.L.I.E., PHONE 800-892-0123, AND ALL UTILITY COMPANIES PRIOR TO DIGGING.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48 HOURS PRIOR TO EXCAVATION OPERATIONS.

THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PROTECT PUBLIC AND PRIVATE PROPERTY. IF AT ANY TIME THE CONTRACTOR DAMAGES OR DESTROYS PUBLIC OR PRIVATE PROPERTY, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, RESTORE SUCH PROPERTY TO A CONDITION EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE.

MAILBOX TURNOUTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH I.D.O.T. STANDARD B.L.R. 24.

THE CONTRACTOR SHALL NOTIFY THE SHELBY COUNTY HIGHWAY DEPARTMENT RESIDENT ENGINEER AND THE COUNTY ENGINEER 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES AT THE TIME OF CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THEY PERFORM THEIR WORK.

GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THESE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TEMPORARY EASEMENT AS POSSIBLE. THE DECISION AS TO ITEMS TO REMIAN IN PLACE SHALL BE DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EARTH STOCK PILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN 14 DAYS.

TEMPORARY EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS SHOWN IN THE EROSION CONTROL PLAN AND AS DIRECTED BY THE ENGINEER.

SEEDING SHALL BE DONE ON ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS AS DIRECTED BY THE ENGINEER. SEEDING SHALL BE PAID FOR ONLY WITHIN THE PROPOSED RIGHT-OF-WAY OR EASEMENT LIMITS. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMIT SHALL BE SEEDED AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

BEFORE ORDERING PIPE CULVERTS, PIPE DRAINS, OR STORM SEWER, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER TO VERIFY THE LENGTHS NEEDED.

RECONSTRUCTION AREA

F.A.S. 656 (NEOGA ROAD) (CH-33)

FUNCTIONAL CLASSIFICATION: RURAL MAJOR COLLECTOR
CLASS III ROAD

DESIGN PERIOD = 20 YEARS

LOAD = 80,000 POUND ROAD

IBV = 4

DESIGN LANE DISTRIBUTION (FOR ALL VEHICLE CLASSES) = 50%

PAVEMENT DESIGN TRAFFIC (1)

CURRENT A.D.T. = 900

DESIGN YEAR = 2030

DESIGN A.D.T. = 1150

PU% = 88.7% = 1020 PASSENGER CARS
SU% = 8.7% = 100 SINGLE UNIT TRUCKS
MU% = 2.6% = 30 MULTI UNIT TRUCKS

TF = 0.23

(1) NUMBER OF VEHICLES FOR THE DESIGN YEAR WERE PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION

RATES OF APPLICATIONS FOR RECONSTRUCTION

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES.

THESE RATES MAY BE ADJUSTED BY THE ENGINEER IN THE FIELD.

AGGREGATE SHOULDERS = 2.10 TONS/CU.YD.

AGGREGATE SURFACE COURSE = 2.10 TONS/CU.YD.

AGGREGATE BASE COURSE TYPE A = 2.10 TONS/CU.YD.

FERTILIZER NUTRIENT = 90.0 POUNDS OF NUTRIENT/ACRE

MULCH, METHOD 2 = 2.0 TON/ACRE

TEMPORARY EROSION SEEDING = 200 POUND/ACRE

STONE RIPRAP A3 = 0.55 TON/SQ.YD.

TRENCH BACKFILL = 1.35 TON/CU.YD.

LIME = 45 LBS/TON

FINAL PAVEMENT DESIGN INFORMATION

CALCULATED TRAFFIC FACTOR = 0.2998

USE 0.500 MIN TRAFFIC FACTOR

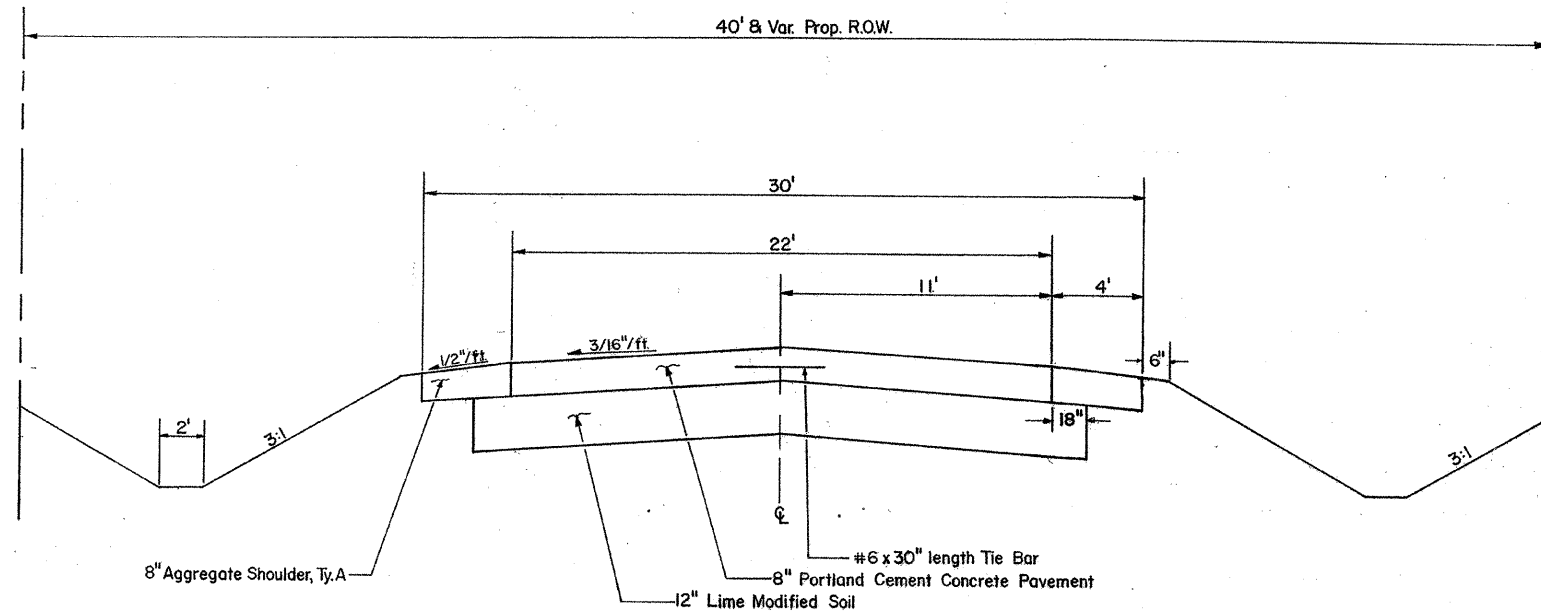
PROPOSED PAVEMENT

JOINT SPACING = 15 FOOT (NOMIAL)
DOWEL BARS = 1½ INCH DIAMETER

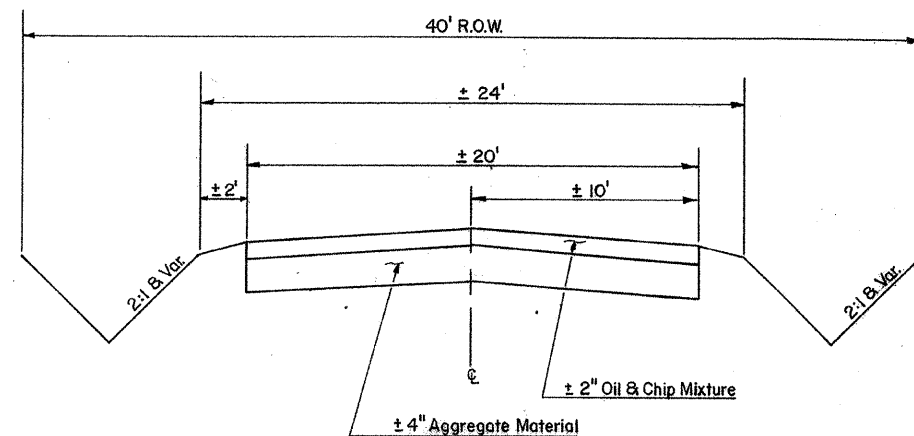
8" PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED)

12" LIME MODIFIED SOIL

SHELBY COUNTY
NEOGA ROAD PROJECT
F.A.S. 656
SECTION 09-00271-00-RS
DETAILS



PROPOSED TYPICAL CROSS SECTION
Sta. 8+75.50 to Sta. 90+00



EXISTING TYPICAL CROSS SECTION
Sta. 8+75.50 to Sta. 90+00

EARTH WORK SCHEDULE					
STA TO STA	LOCATION	EARTH EXCAVATION	EARTH EXCAVATION (ADJUSTED FOR SHRINKAGE)	EMBANKMENT	EARTH WORK BALANCE (+) OR SHORTAGE (-)
STA 8+75.5 TO STA 90+00	MAINLINE	14311	10733	10544	+189
STA 0+30 TO STA 4+00	SIDE ROAD SOUTH	307	230	8	+222
STA 59+50 TO STA 61+47	BERM ALONG MAINLINE	0	0	33	-33
STA 67+00 TO STA 70+00	BERM ALONG MAINLINE	0	0	46	-46
15+36 LT	ENT.	0	0	20	-20
29+00 LT	ENT.	0	0	31	-31
29+00 RT	ENT.	0	0	26	-26
34+70 RT	ENT.	0	0	34	-34
47+88 RT	ENT.	0	0	77	-77
48+25 LT	ENT.	0	0	58	-58
48+78 LT	ENT.	0	0	47	-47
53+05 RT	ENT.	0	0	38	-38
54+90 LT	ENT.	0	0	48	-48
55+45 LT	ENT.	0	0	47	-47
56+76 LT	ENT.	0	0	60	-60
58+48 LT	ENT.	0	0	82	-82
77+65 LT	ENT.	0	0	107	-107
79+50 LT	ENT.	0	0	142	-142
86+92 LT	ENT.	0	0	58	-58
88+50 LT	ENT.	0	0	18	-18
TOTALS		14618	10963	11524	- 561

TREE REMOVAL ACRES SCHEDULE

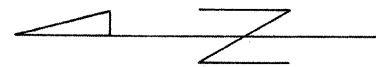
STA	O/S	QUANTITY
74+97 TO 76+00	LEFT	0.1
76+00 TO 76+35	LEFT	0.1
TOTAL		0.2 ACRES

TREE REMOVAL (OVER 15 UNITS DIA) SCHEDULE

STA	O/S	SIZE
77+04	28 FT LT	36
TOTAL		36 UNIT

TYPICAL SECTIONS

SCALE:	APPROVED BY:	DRAWN BY:
DATE:		REVISED:
		DRAWING NUMBER



ELEVATION IL RT. 32

STATION	ELEVATION 13' LEFT EDGE OF RT. 32	OFFSET PROPOSED PAVT.	PROPOSED PAVT. ELEVATION
317 + 00.50	639.08	---	---
317 + 15.50	639.08	14' LT	639.06
317 + 40.50	639.08	17' LT	639.02
317 + 65.50	639.06	23' LT	638.80
317 + 90.50	638.99	---	---
318 + 15.50	638.99	---	---
318 + 40.50	638.99	---	---
318 + 65.50	638.97	18' LT	638.81
318 + 75.50	638.98	---	---
318 + 77.50	638.98	14' LT	638.96
318 + 90.50	638.99	---	---
319 + 15.50	639.00	---	---

ELEVATIONS FAS - 656 (CH - 33)

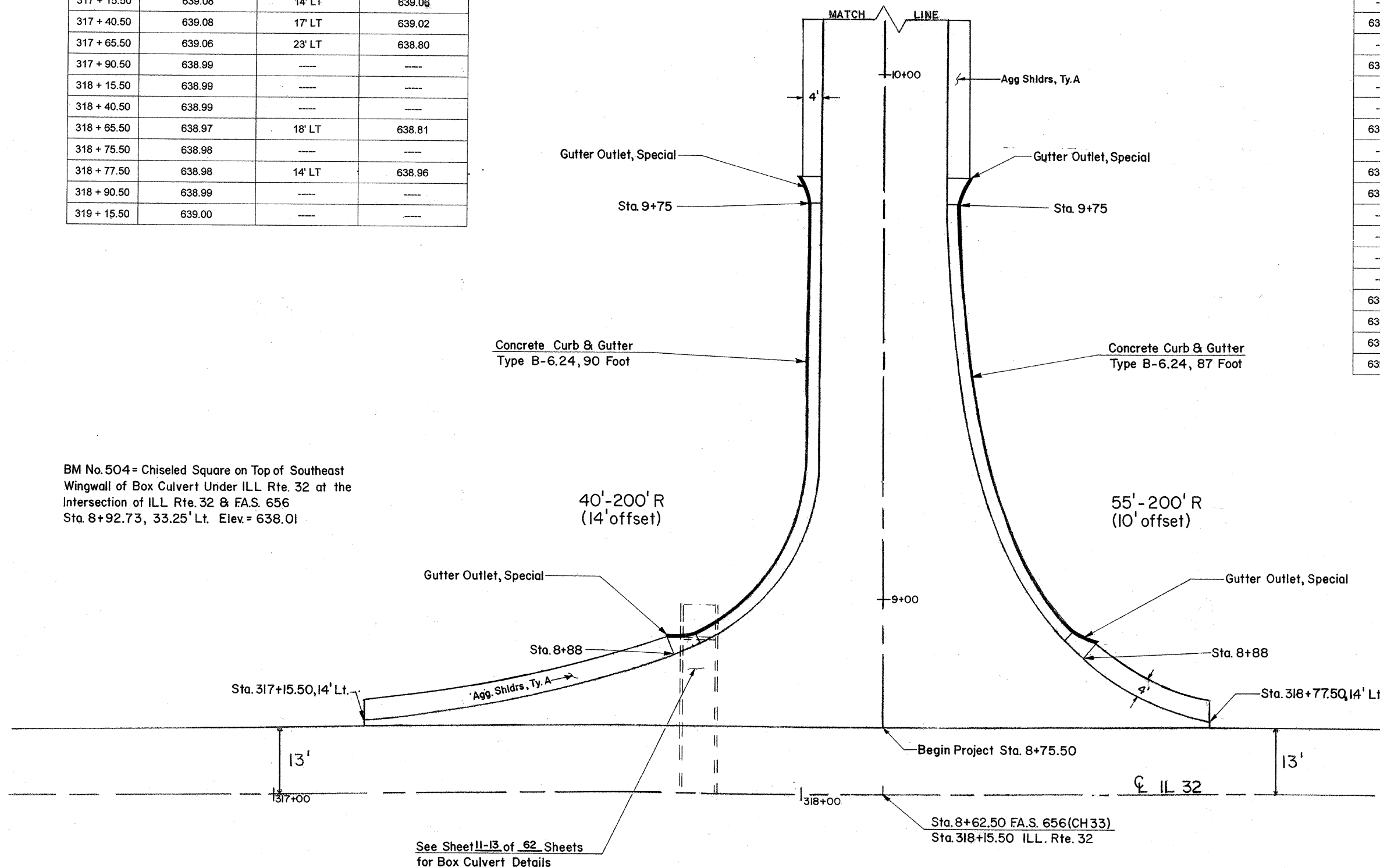
LT. ELEV.	LEFT O/S	STATION	CL ELEV.	RT. O/S	RT. ELEV.
---	---	8 + 75.50	638.99	---	---
---	---	8 + 86	638.85	---	---
638.75	40	8 + 88	638.86	37.5	638.70
---	---	8 + 90	638.87	---	---
638.79	22 LT	9 + 00	638.89	---	---
---	---	9 + 05	638.93	---	---
---	---	9 + 10	638.95	23 RT	638.80
638.87	13 LT	9 + 17.6	638.97	---	---
---	---	9 + 20	638.98	---	---
638.89	12 LT	9 + 23	638.99	---	---
638.92	12 LT	9 + 35	639.03	---	---
---	12 LT	9 + 36	639.04	15.5 RT	638.94
---	12 LT	9 + 41	639.06	---	---
---	---	9 + 50	639.08	---	---
---	---	9 + 65	639.15	---	---
638.97	12 LT	9 + 66	639.15	12.5 RT	638.96
639.02	12 LT	9 + 80	639.20	12.0 RT	639.02
639.07	12 LT	9 + 95	639.25	12.0 RT	639.07
639.12	12 LT	10 + 10	639.30	12.0 RT	639.12

SCALE 1" = 10'

BM No. 504 = Chiseled Square on Top of Southeast
Wingwall of Box Culvert Under ILL Rte. 32 at the
Intersection of ILL Rte. 32 & F.A.S. 656
Sta. 8+92.73, 33.25' Lt. Elev. = 638.01

COMBINATION CONCRETE CURB & GUTTER TYPE B 6.24 SCHEDULE

STATION TO STATION	O/S	QUANTITY
STA 8+88 TO STA 9+75	LT	90.0 FOOT
STA 8+88 TO STA 9+75	RT	87.0 FOOT
	TOTAL	177.0 FOOT



INTERSECTION DETAILS

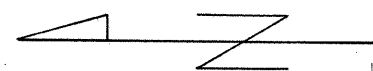
SCALE:	APPROVED BY:	DRAWN BY: CML
DATE:		REVISED:
		DRAWING NUMBER

ELEVATION IL RT. 32

STATION	ELEVATION 13' LEFT EDGE OF RT. 32	OFFSET PROPOSED PAVT.	PROPOSED PAVT. ELEVATION
317 + 00.50	639.08	----	----
317 + 15.50	639.08	14' LT	639.06
317 + 40.50	639.08	17' LT	639.02
317 + 65.50	639.06	23' LT	638.80
317 + 90.50	638.99	----	----
318 + 15.50	638.99	----	----
318 + 40.50	638.99	----	----
318 + 65.50	638.97	18' LT	638.81
318 + 75.50	638.98	----	----
318 + 77.50	638.98	14' LT	638.96
318 + 90.50	638.99	----	----
319 + 15.50	639.00	----	----

ELEVATIONS FAS - 656 (CH - 33)

LT. ELEV.	LEFT O/S	STATION	CL. ELEV.	RT. O/S	RT. ELEV.
----	----	8 + 75.50	638.99	----	----
----	----	8 + 86	638.85	----	----
638.75	40	8 + 88	638.86	37.5	638.70
----	----	8 + 90	638.87	----	----
638.79	22 LT	9 + 00	638.89	----	----
----	----	9 + 05	638.93	----	----
----	----	9 + 10	638.95	23 RT	638.80
638.87	13 LT	9 + 17.6	638.97	----	----
----	----	9 + 20	638.98	----	----
638.89	12 LT	9 + 23	638.99	----	----
638.92	12 LT	9 + 35	639.03	----	----
----	12 LT	9 + 36	639.04	15.5 RT	638.94
----	12 LT	9 + 41	639.06	----	----
----	----	9 + 50	639.08	----	----
----	----	9 + 65	639.15	----	----
638.97	12 LT	9 + 66	639.15	12.5 RT	638.96
639.02	12 LT	9 + 80	639.20	12.0 RT	639.02
639.07	12 LT	9 + 95	639.25	12.0 RT	639.07
639.12	12 LT	10 + 10	639.30	12.0 RT	639.12



BM No. 504= Chiseled Square on Top of Southeast
Wingwall of Box Culvert Under ILL. Rte. 32 at the
Intersection of ILL. Rte. 32 & F.A.S. 656
Sta. 8+92.73, 33.25' Lt. Elev. = 638.01

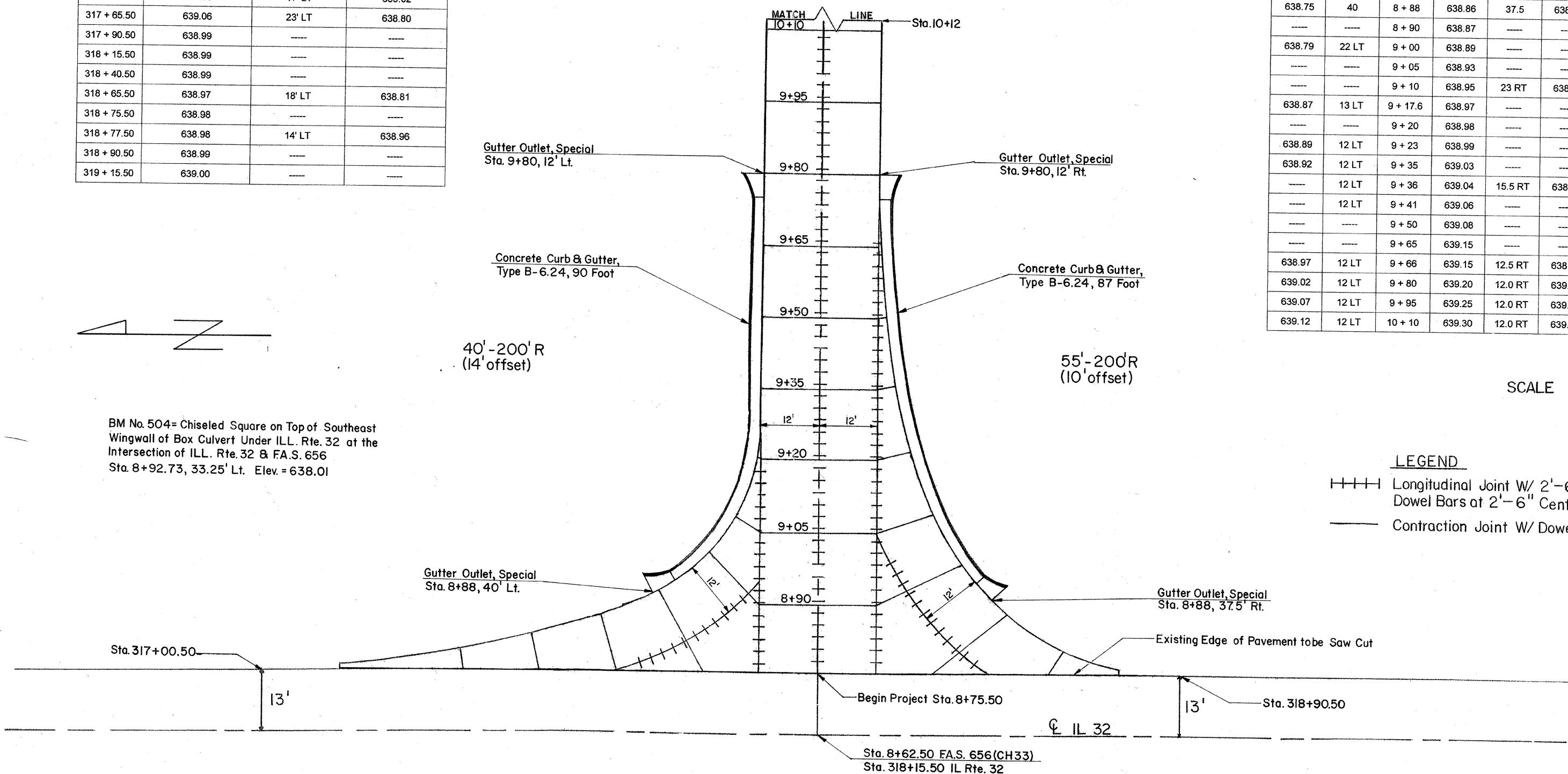
40'-200' R
(14' offset)

55'-200' R
(10' offset)

SCALE 1" = 10'

LEGEND

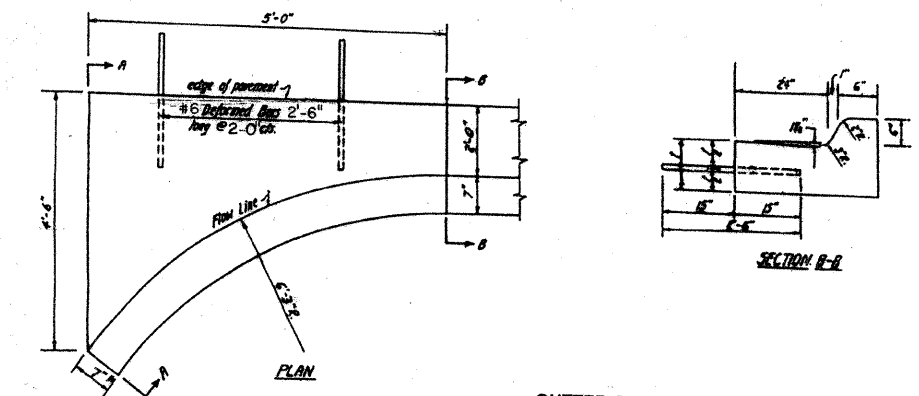
- ||||| Longitudinal Joint W/ 2'-6" No. 6
Dowel Bars at 2'-6" Centers
- Contraction Joint W/ Dowels (Sawed)



INTERSECTION DETAILS W/ JOINTS

SCALE:	APPROVED BY:	DRAWN BY: CML
DATE:	REVISOR:	
DRAWING NUMBER:		

GUTTER OUTLET, SPECIAL DETAIL

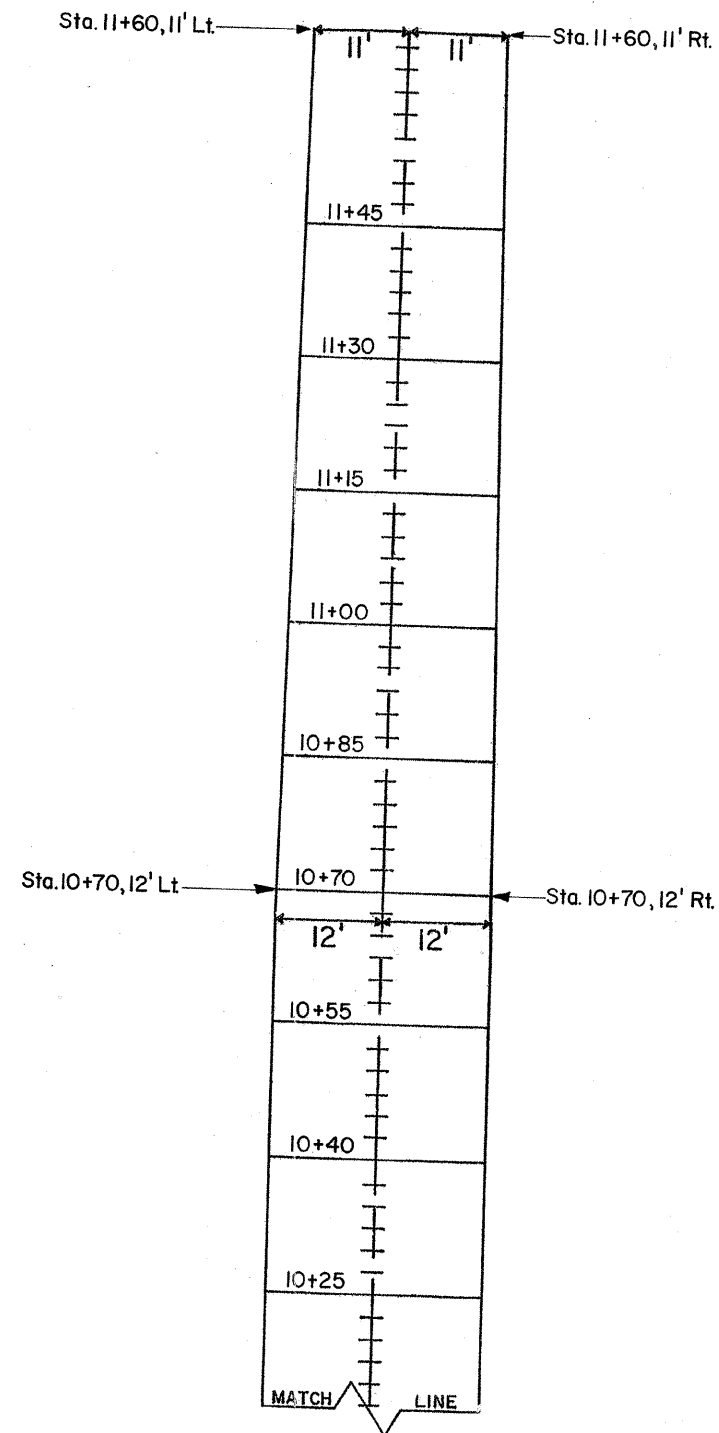


GUTTER OUTLET, SPECIAL SCHEDULE

<u>STATION</u>	<u>O/S</u>	<u>QUANTITY</u>
9+75	LT	1.0 EACH
9+75	RT	1.0 EACH
8+88	LT	1.0 EACH
8+88	RT	1.0 EACH
		=====
	<u>TOTAL</u>	4.0 EACH

PAVEMENT DETAILS

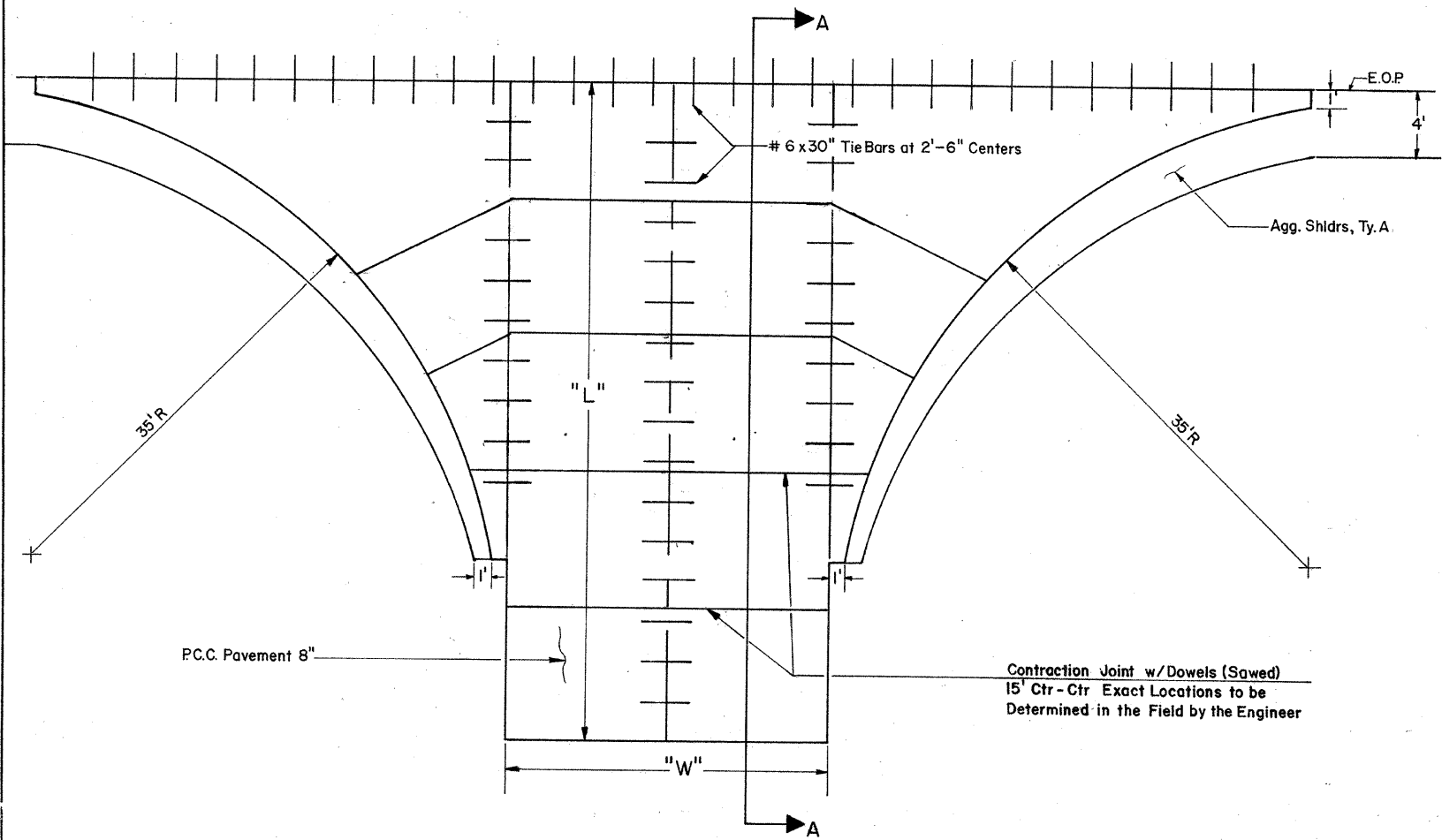
SCALE:	APPROVED BY:	DRAWN BY
DATE:		CML
		REVISED
		DRAWING NUMBER



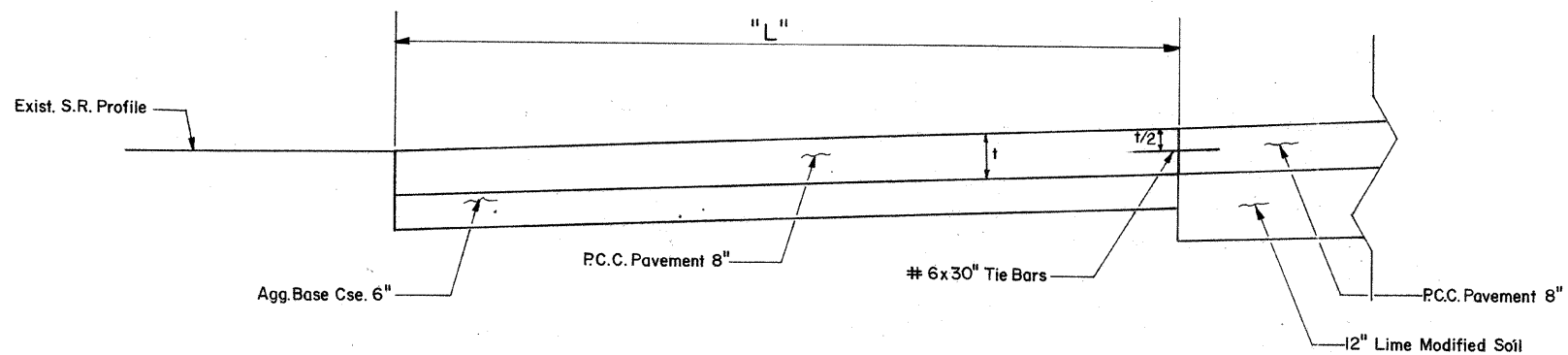
LEGEND

-  Longitudinal Joint w/ 2'-6" No.6 Dowel Bars at 2'-6" Centers
 Contraction Joint w/ Dowels (Sawed)

SCALE: 1"=10'



PROPOSED TYPICAL SIDEROAD



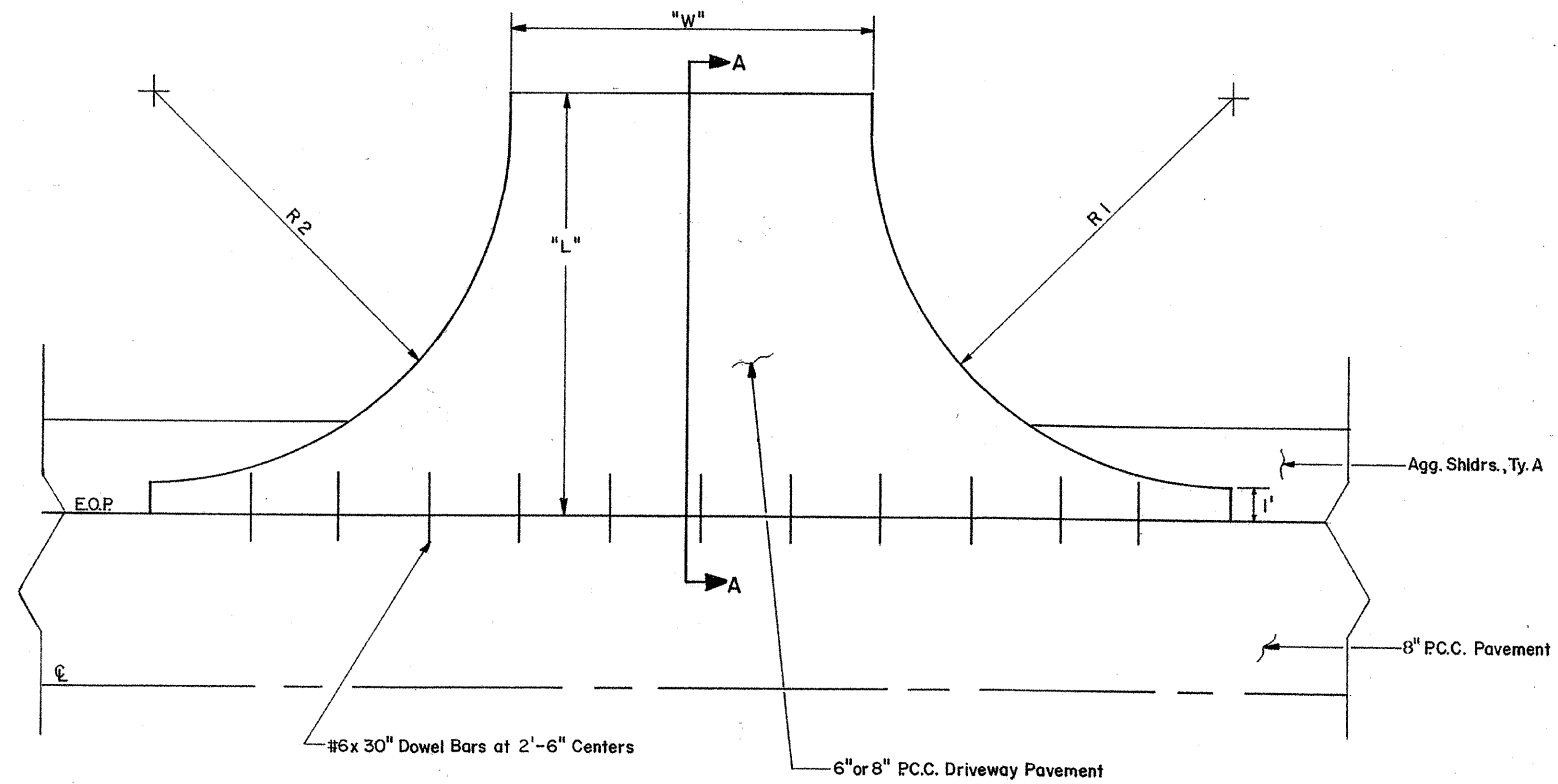
SECTION A-A

SIDE ROAD SCHEDULE

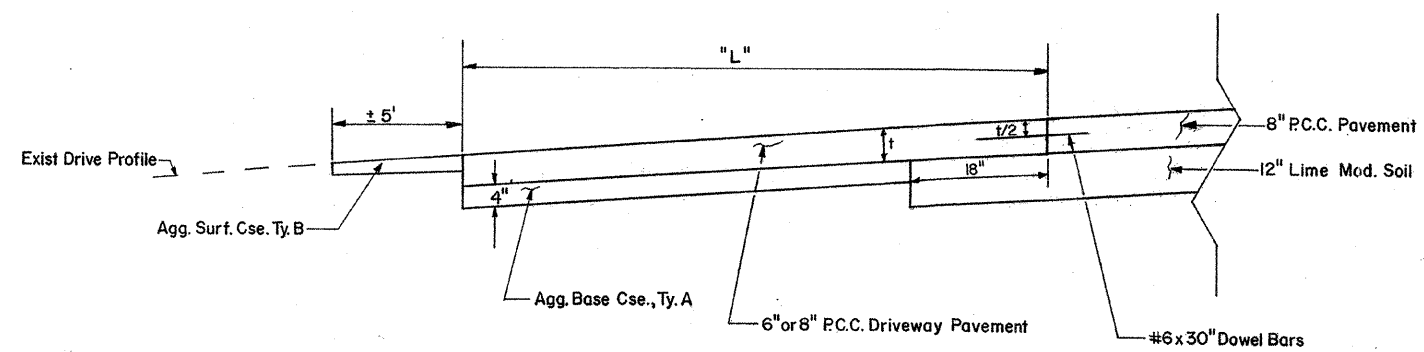
STA	O/S	W	L	R	PCC PVT 8"	AGGREGATE BASE TY A
61+80	LT	16'	89'	35'	227 YD ²	83 TONS
61+80	RT	16'	89'	35'	227 YD ²	83 TONS
TOTAL					454 YD ²	166 TONS

SIDEROAD DETAILS

SCALE:	APPROVED BY:	DRAWN BY:
DATE:		REVISED:
		DRAWING NUMBER:



PRIVATE ENTRANCE DETAIL



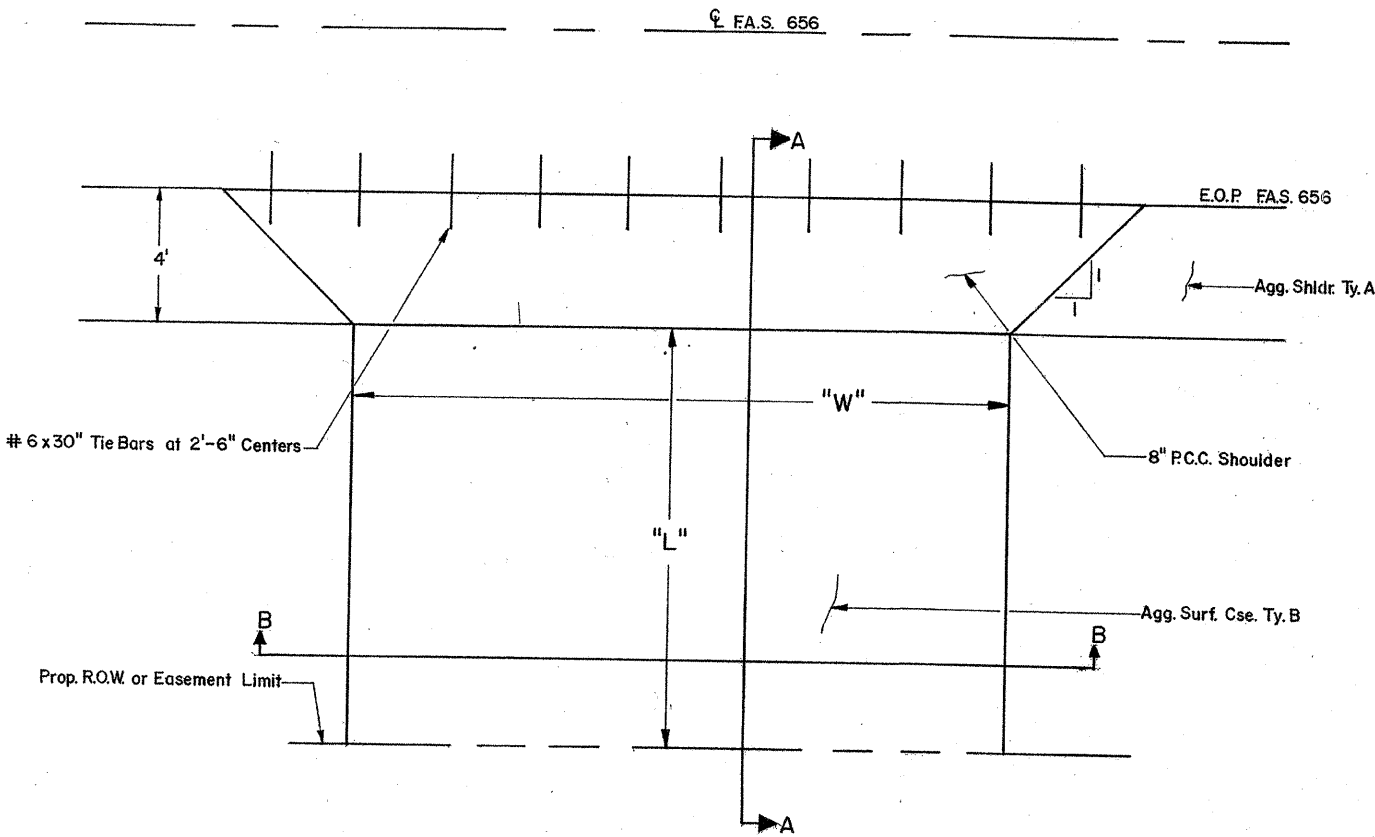
SECTION A-A

PRIVATE & COMMERCIAL ENTRANCE SCHEDULE

STA	TYPE	O/S	R1	R2	L	W	PCC DRIVEWAY PAVT 6"	PCC DRIVEWAY PAVT 8"	AGGREGATE BASE CSE TYPE A	AGGREGATE SURFACE CSE TYPE B
56+76	CE	LT	20'	20'	29'	32'	0 YD ²	127 YD ²	38 TONS	25 TONS
58+48	CE	LT	20'	20'	34'	40'	0 YD ²	175 YD ²	52 TONS	25 TONS
77+65	PE	LT	20'	20'	39'	16'	93 YD ²	0 YD ²	28 TONS	14 TONS
86+92	PE	LT	20'	20'	23'	16'	65 YD ²	0 YD ²	22 TONS	17 TONS
TOTAL							158 YD ²	302 YD ²	140 TONS	81 TONS

ENTRANCE DETAILS

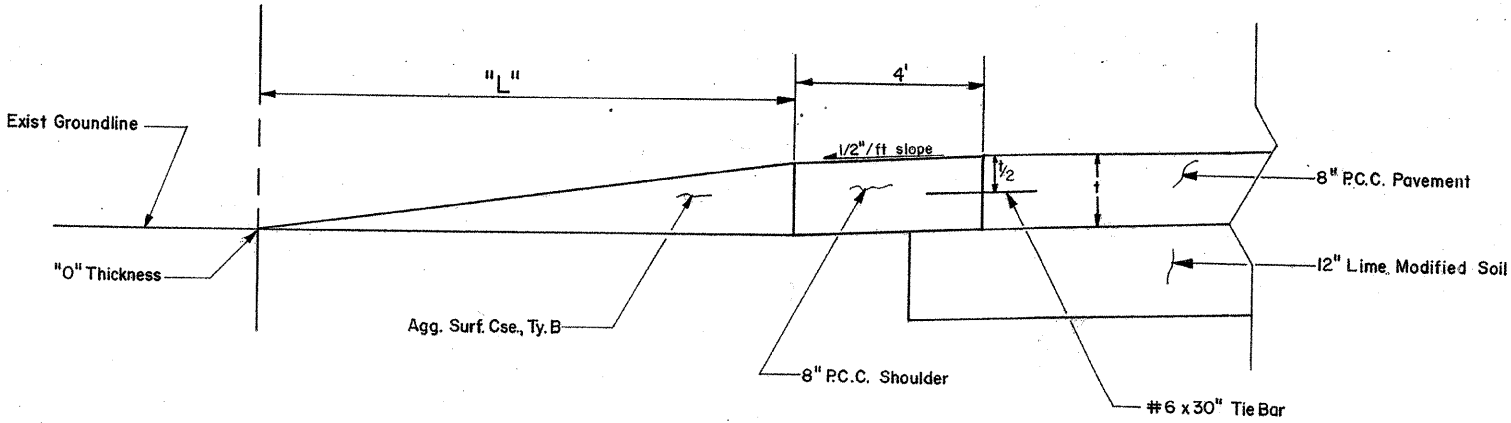
SCALE:	APPROVED BY:	DRAWN BY:
DATE:		REVISED:
		DRAWING NUMBER



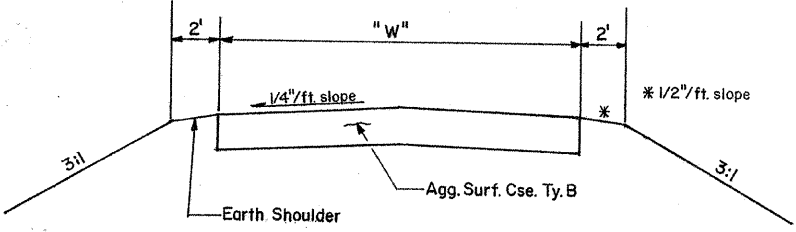
FIELD ENTRANCE DETAIL

Note: Contraction Joints w/ Dowels (Sawed) in P.C.C. Pavement shall be continued through P.C.C. Shoulder as directed by the Engineer in the field.

STA	O/S	W	L	PCC SHOULDER 8"	AGGREGATE SURFACE CSE TY B
15+36	LT	20	41'	11 YD ²	22 TONS
29+00	LT	20	29'	11 YD ²	20 TONS
29+00	RT	20	24'	11 YD ²	18 TONS
34+70	RT	20	34'	11 YD ²	22 TONS
47+88	RT	24	39'	12 YD ²	24 TONS
48+25	LT	20	46'	11 YD ²	24 TONS
48+78	LT	20	46'	11 YD ²	24 TONS
53+03	RT	20	41'	11 YD ²	22 TONS
54+90	LT	20	41'	11 YD ²	22 TONS
55+45	LT	20	41'	11 YD ²	22 TONS
79+50	LT	24	56'	13 YD ²	36 TONS
88+50	LT	20	26'	11 YD ²	15 TONS
TOTAL				135 YD ²	253 TONS

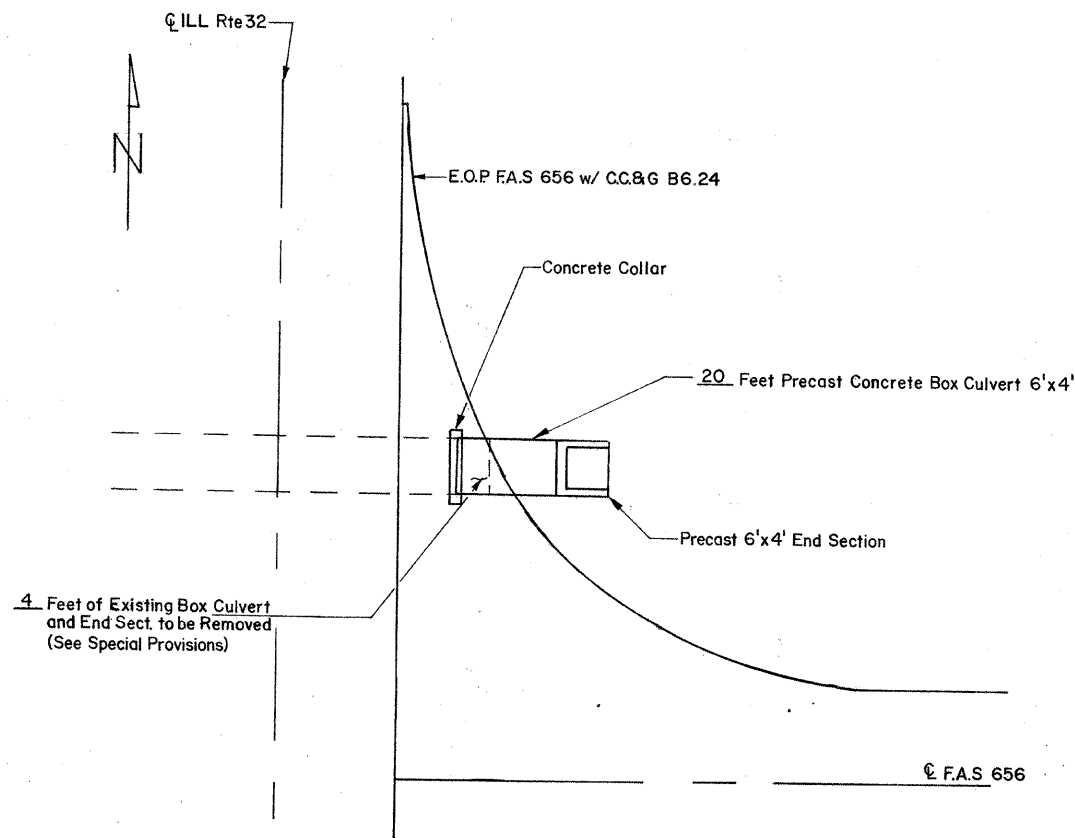


SECTION A-A

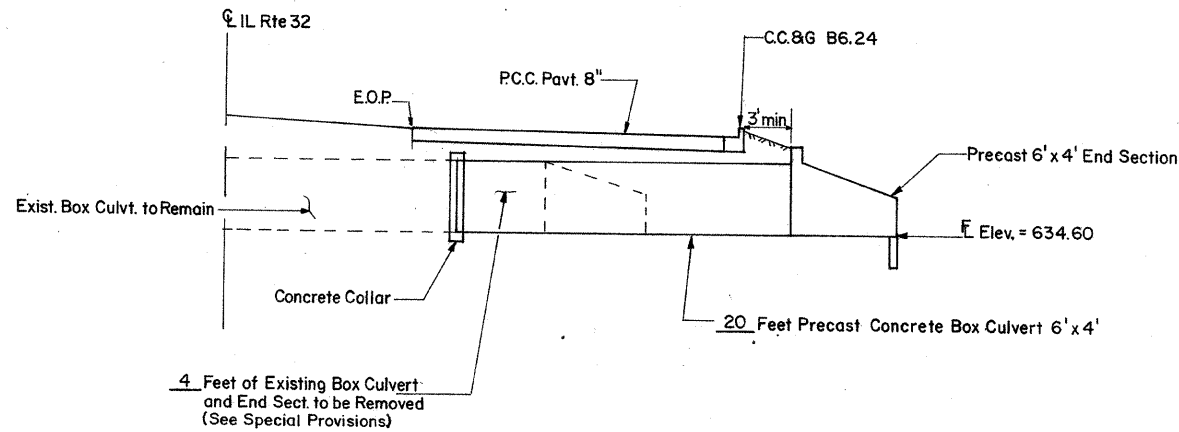


SECTION B-B

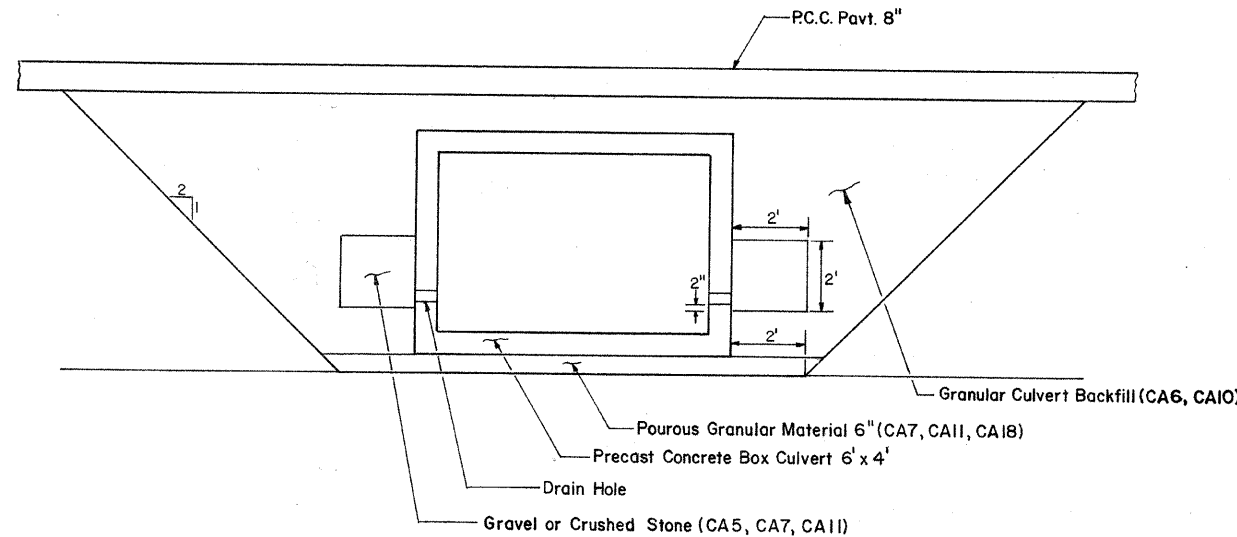
FIELD ENTRANCE DETAILS		
SCALE:	APPROVED BY:	DRAWN BY:
DATE:		REVISED:
		DRAWING NUMBER:



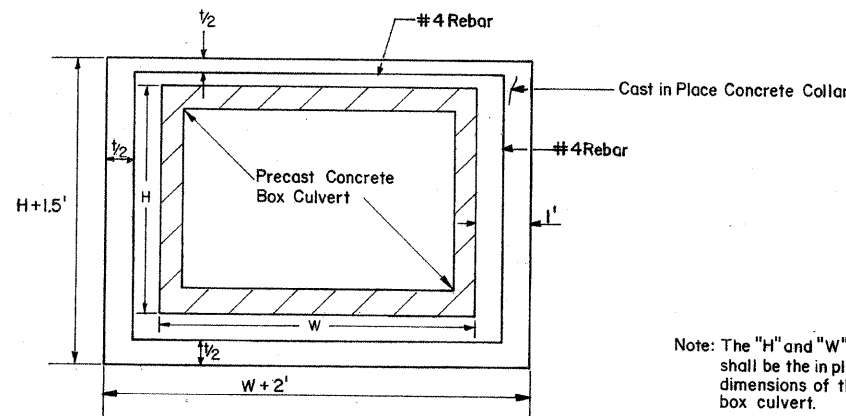
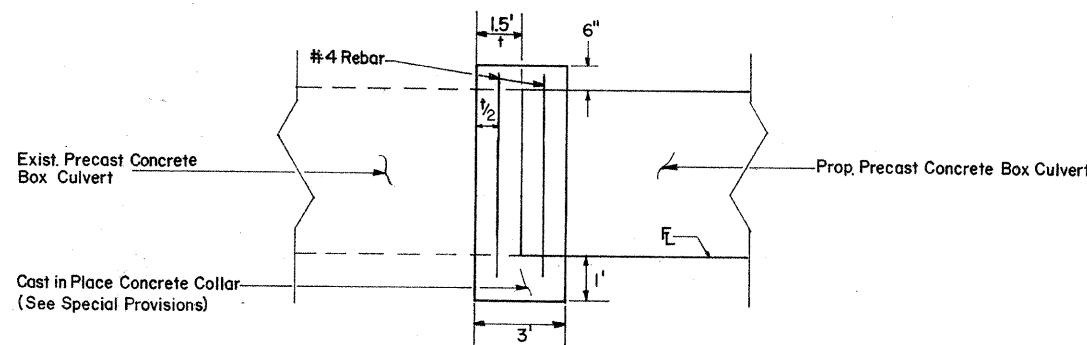
CULVERT EXTENSION PLAN VIEW



CULVERT EXTENSION PROFILE VIEW



BACKFILL DETAILS



CONCRETE COLLAR DETAILS

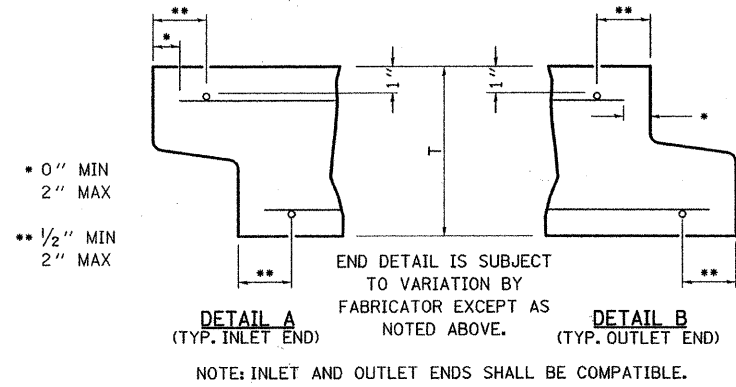
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1.0
BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1.0
PRECAST CONCRETE BOX CULVERTS 6' X 4'	FOOT	20.0

BOX CULVERT EXTENSION DETAILS

SCALE:	APPROVED BY:	DRAWN BY:
DATE:	REVIEWED:	
		DRAWING NUMBER

DETAIL OF PRECAST CONCRETE BOX CULVERT ASTM C1577



DESIGN LOADING:
COMBINED EARTH DEAD LOAD
AND AASHTO HL-93 LIVE LOAD

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS, AND THE CURRENT POLICY MEMORANDUM "QUALITY CONTROL/QUALITY ASSURANCE PROGRAM FOR PRECAST CONCRETE PRODUCTS."

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED
IN ACCORDANCE WITH ARTICLE 540.06 OF THE STANDARD
SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS AS1, AS2, AS3, AS4, AS5, AS6, AS7, AND AS8, DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN ASTM C1577. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO SPECIFICATIONS M55 (A185) OR M221 (A497), OR REINFORCEMENT BARS, GRADE 60, CONFORMING TO A706.

LIFTING HOLES SHALL BE FILLED IN ACCORDANCE WITH 540.06 OR PROJECT SPECIAL PROVISIONS.

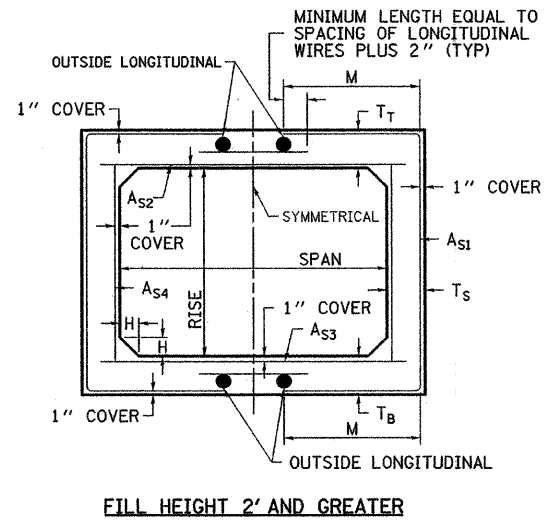
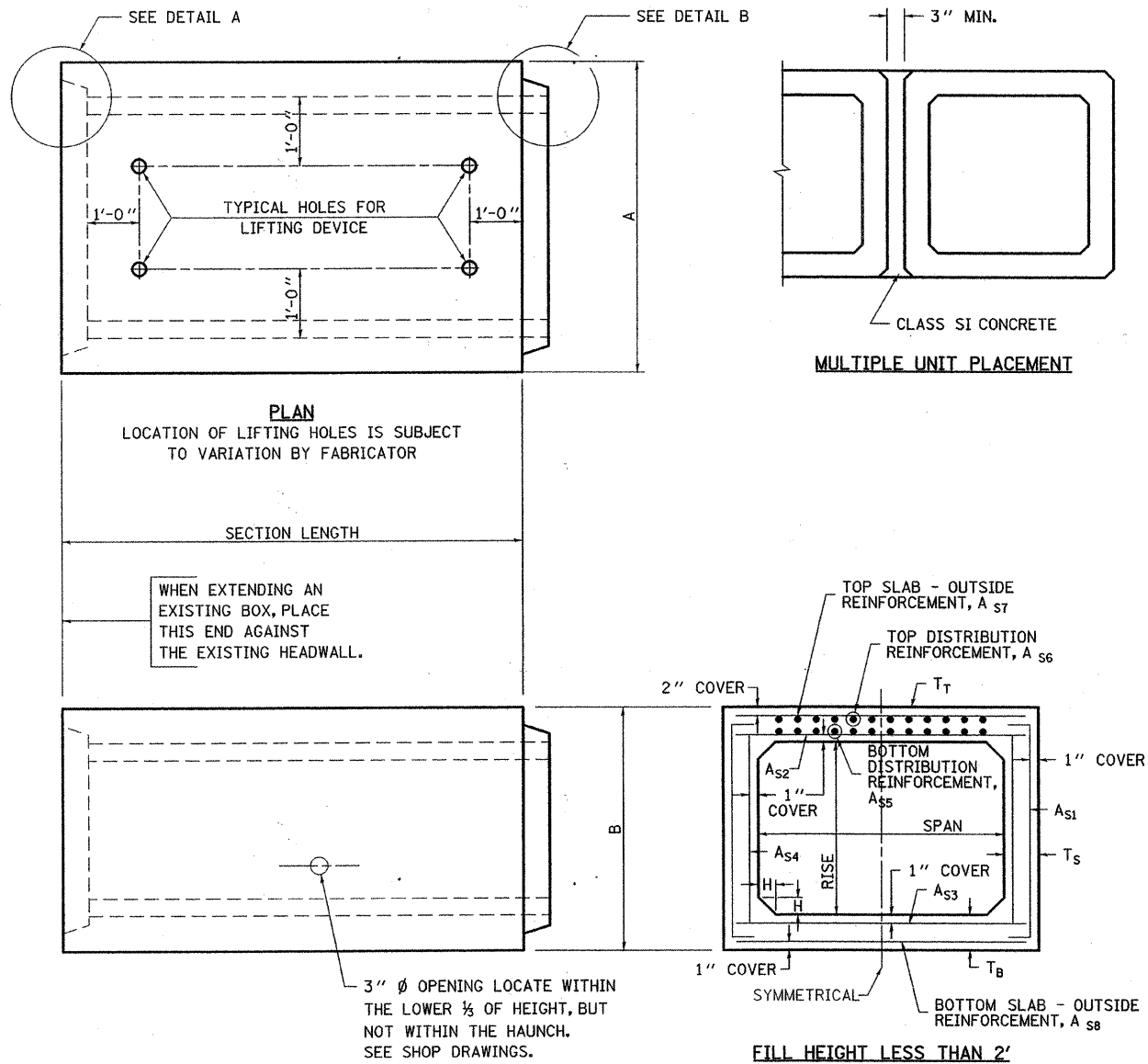
DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.

DESIGN FILL HEIGHT (F):

MAXIMUM FILL HEIGHT (f_{max}) AND MINIMUM FILL HEIGHT (f_{min}) ARE MEASURED BETWEEN THE EXTREME EDGES OF SHOULDER.

$f_{\max}/f_{\min}$ (FT)	F (FT)
$f_{\min} < 2'$	$< 2'$
$2' \leq f_{\min} < 3'$	$2'$
$3' \leq f_{\min} < 4'$	$3'$
$f_{\min} > 4'$	$f_{\max}$

DESIGN FILL HEIGHTS APPLY TO ENTIRE CULVERT, INCLUDING
EXTENSIONS AND END SECTIONS.

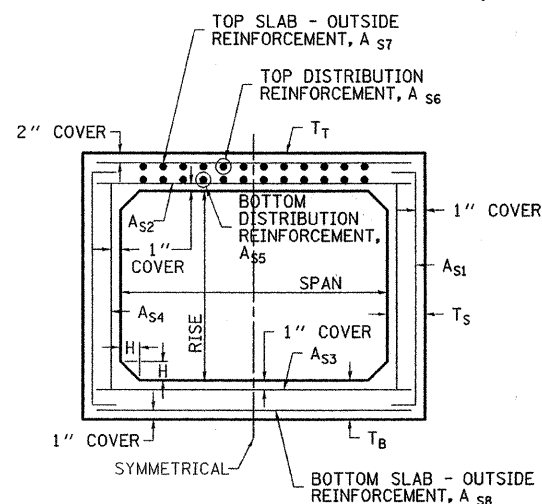


CULVERT SIZE	DIMENSIONS*				
BOX SECTION S x R (FT)	THICKNESS (IN)			A	B
	Tt	Tb	Ts	FT - IN	FT - IN
3 x 2	7	6	4	3 - 8	3 - 1
3 x 3	7	6	4	3 - 8	4 - 1
4 x 2	7.5	6	5	4 - 10	3 - 1.5
4 x 3	7.5	6	5	4 - 10	4 - 1.5
4 x 4	7.5	6	5	4 - 10	5 - 1.5
5 x 3	8	7	6	6 - 0	4 - 3
5 x 4	8	7	6	6 - 0	5 - 3
5 x 5	8	7	6	6 - 0	6 - 3
6 x 3	8	7	7	7 - 2	4 - 3
6 x 4	8	7	7	7 - 2	5 - 3
6 x 5	8	7	7	7 - 2	6 - 3
6 x 6	8	7	7	7 - 2	7 - 3
7 x 4	8	8	8	8 - 4	5 - 4
7 x 5	8	8	8	8 - 4	6 - 4
7 x 6	8	8	8	8 - 4	7 - 4
7 x 7	8	8	8	8 - 4	8 - 4
8 x 4	8	8	8	9 - 4	5 - 4
8 x 5	8	8	8	9 - 4	6 - 4
8 x 6	8	8	8	9 - 4	7 - 4
8 x 7	8	8	8	9 - 4	8 - 4
8 x 8	8	8	8	9 - 4	9 - 4
9 x 5	9	9	9	10 - 6	6 - 6
9 x 6	9	9	9	10 - 6	7 - 6
9 x 7	9	9	9	10 - 6	8 - 6
9 x 8	9	9	9	10 - 6	9 - 6
9 x 9	9	9	9	10 - 6	10 - 6
10 x 5	10	10	10	11 - 8	6 - 8
10 x 6	10	10	10	11 - 8	7 - 8
10 x 7	10	10	10	11 - 8	8 - 8
10 x 8	10	10	10	11 - 8	9 - 8
10 x 9	10	10	10	11 - 8	10 - 8
10 x 10	10	10	10	11 - 8	11 - 8
11 x 4	11	11	11	12 - 10	5 - 10
11 x 6	11	11	11	12 - 10	7 - 10
11 x 8	11	11	11	12 - 10	9 - 10
11 x 10	11	11	11	12 - 10	11 - 10
11 x 11	11	11	11	12 - 10	12 - 10
12 x 4	12	12	12	14 - 0	6 - 0
12 x 6	12	12	12	14 - 0	8 - 0
12 x 8	12	12	12	14 - 0	10 - 0
12 x 10	12	12	12	14 - 0	12 - 0
12 x 12	12	12	12	14 - 0	14 - 0

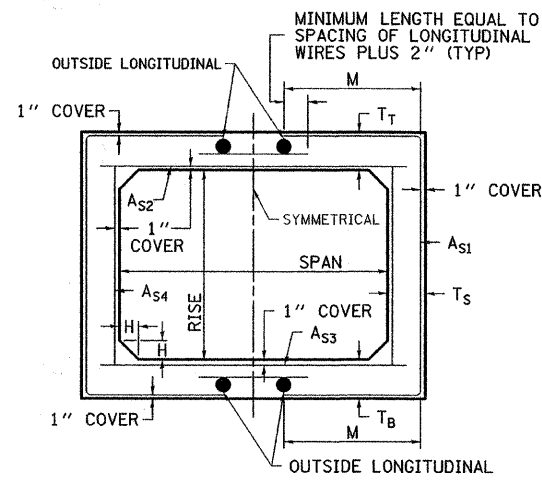
* "T" MAY BE LARGER THAN SHOWN ON TABLE,
PER ASTM C1577 SPECIFICATIONS.

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED - JEH 06-01	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS OF PRECAST CONCRETE BOX CULVERT				F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\puidot\steffennk\d0125064\Pre	cast Culvert.dgn	DRAWN -	REVISED - MKS 09-08						656	09-00271-00-RS	SHELBY	62	12
	PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 95670								
	PLOT DATE = 9/27/2011	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				

DETAIL OF PRECAST CONCRETE BOX CULVERT END SECTION ASTM C1577



FILL HEIGHT LESS THAN 2'



FILL HEIGHT 2' AND GREATER

DESIGN LOADING:

COMBINED EARTH DEAD LOAD
AND AASHTO HL-93 LIVE LOAD

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS, AND THE CURRENT POLICY MEMORANDUM "QUALITY CONTROL/QUALITY ASSURANCE PROGRAM FOR PRECAST CONCRETE PRODUCTS."

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED IN ACCORDANCE WITH ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS A_{s1} , A_{s2} , A_{s3} , A_{s4} , A_{s5} , A_{s6} , A_{s7} , AND A_{s8} DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN ASTM C1577. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO SPECIFICATIONS M55 (A185) OR M221 (A497), OR REINFORCEMENT BARS, GRADE 60, CONFORMING TO A706.

LIFTING HOLES SHALL BE FILLED IN ACCORDANCE WITH 540.06 OR PROJECT SPECIAL PROVISIONS.

DESIGN FILL HEIGHT (F):

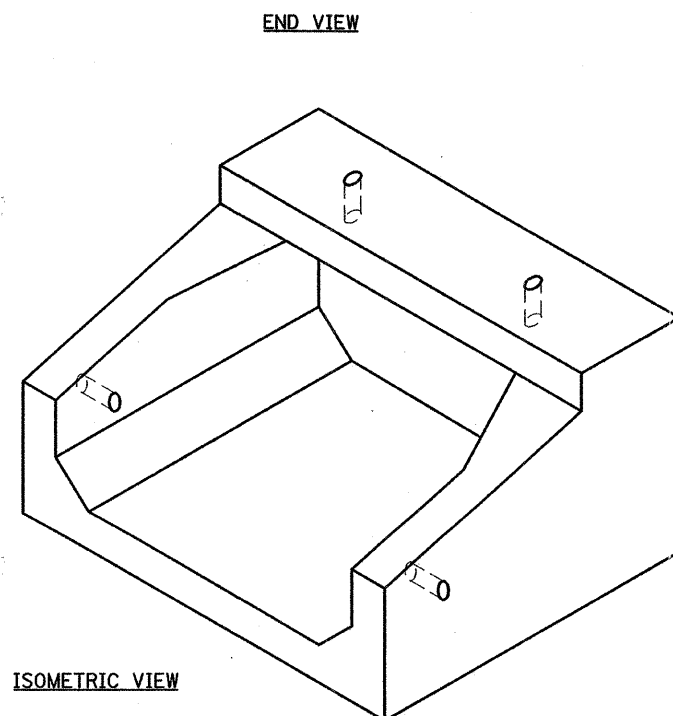
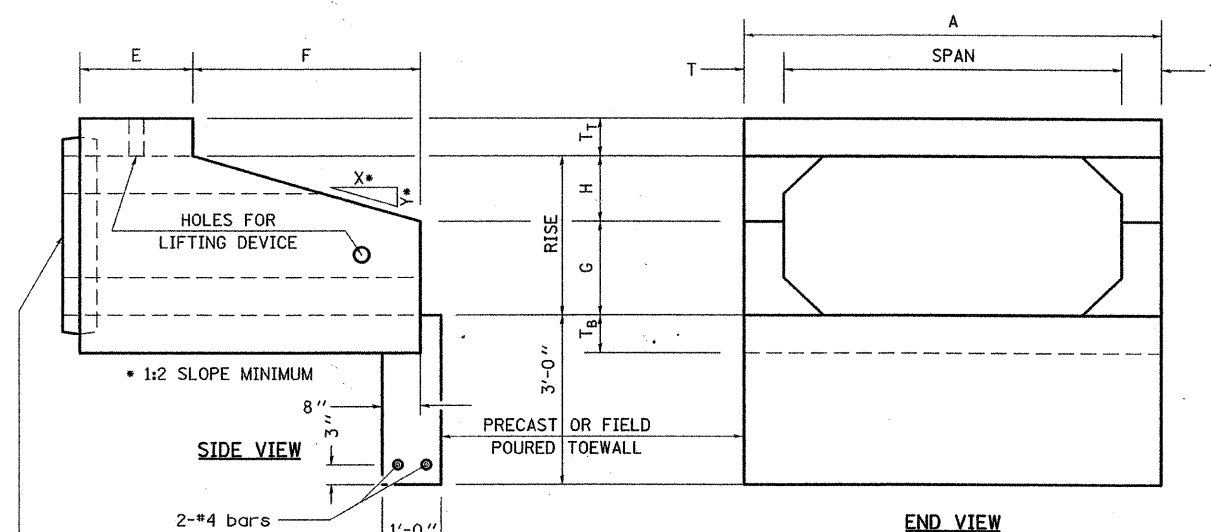
MAXIMUM FILL HEIGHT (f_{max}) AND MINIMUM FILL HEIGHT (f_{min}) ARE MEASURED BETWEEN THE EXTREME EDGES OF SHOULDER.

f_{max}/f_{min} (FT)	F (FT)
$f_{min} < 2'$	$< 2'$
$2' \leq f_{min} < 3'$	2'
$3' \leq f_{min} < 4'$	3'
$f_{min} > 4'$	f_{max}

DESIGN FILL HEIGHTS APPLY TO ENTIRE CULVERT, INCLUDING EXTENSIONS AND END SECTIONS.

CULVERT SIZE		DIMENSIONS*								
BOX SECTION S x R (FT)	THICKNESS (IN)			A	B	E	F	G	H	SLOPE Y: X
	T+	Tb	Ts	FT - IN	FT - IN	FT - IN	FT - IN	FT - IN	FT - IN	
3 x 2	7	6	4	3 - 8	3 - 1	3 - 0	3 - 0	1 - 0	1 - 0	1:3
3 x 3	7	6	4	3 - 8	4 - 1	2 - 0	4 - 0	1 - 8	1 - 4	1:3
4 x 2	7.5	6	5	4 - 10	3 - 1.5	3 - 0	3 - 0	1 - 0	1 - 0	1:3
4 x 3	7.5	6	5	4 - 10	4 - 1.5	2 - 0	4 - 0	1 - 8	1 - 4	1:3
4 x 4	7.5	6	5	4 - 10	5 - 1.5	2 - 0	4 - 0	2 - 0	2 - 0	1:2
5 x 3	8	7	6	6 - 0	4 - 3	2 - 0	4 - 0	1 - 8	1 - 4	1:3
5 x 4	8	7	6	6 - 0	5 - 3	2 - 0	4 - 0	2 - 0	2 - 0	1:2
5 x 5	8	7	6	6 - 0	6 - 3	2 - 0	4 - 0	3 - 0	2 - 0	1:2
6 x 3	8	7	7	7 - 2	4 - 3	2 - 0	4 - 0	1 - 8	1 - 4	1:3
6 x 4	8	7	7	7 - 2	5 - 3	2 - 0	4 - 0	2 - 0	2 - 0	1:2
6 x 5	8	7	7	7 - 2	6 - 3					
6 x 6	8	7	7	7 - 2	7 - 3	2 - 0	6 - 0	3 - 0	3 - 0	1:2
7 x 4	8	8	8	8 - 4	5 - 4	2 - 0	4 - 0	2 - 0	2 - 0	1:2
7 x 5	8	8	8	8 - 4	6 - 4					
7 x 6	8	8	8	8 - 4	7 - 4					
7 x 7	8	8	8	8 - 4	8 - 4					
8 x 4	8	8	8	9 - 4	5 - 4	2 - 0	4 - 0	2 - 0	2 - 0	1:2
8 x 5	8	8	8	9 - 4	6 - 4					
8 x 6	8	8	8	9 - 4	7 - 4					
8 x 7	8	8	8	9 - 4	8 - 4					
8 x 8	8	8	8	9 - 4	9 - 4					
9 x 5	9	9	9	10 - 6	6 - 6					
9 x 6	9	9	9	10 - 6	7 - 6					
9 x 7	9	9	9	10 - 6	8 - 6					
9 x 8	9	9	9	10 - 6	9 - 6					
9 x 9	9	9	9	10 - 6	10 - 6					
10 x 5	10	10	10	11 - 8	6 - 8					
10 x 6	10	10	10	11 - 8	7 - 8					
10 x 7	10	10	10	11 - 8	8 - 8					
10 x 8	10	10	10	11 - 8	9 - 8					
10 x 9	10	10	10	11 - 8	10 - 8					
10 x 10	10	10	10	11 - 8	11 - 8					
11 x 4	11	11	11	12 - 10	5 - 10					
11 x 6	11	11	11	12 - 10	7 - 10					
11 x 8	11	11	11	12 - 10	9 - 10					
11 x 10	11	11	11	12 - 10	11 - 10					
11 x 11	11	11	11	12 - 10	12 - 10					
12 x 4	12	12	12	14 - 0	6 - 0					
12 x 6	12	12	12	14 - 0	8 - 0					
12 x 8	12	12	12	14 - 0	10 - 0					
12 x 10	12	12	12	14 - 0	12 - 0					
12 x 12	12	12	12	14 - 0	14 - 0					

* "T" MAY BE LARGER THAN SHOWN ON TABLE, PER ASTM C1577 SPECIFICATIONS.



ISOMETRIC VIEW

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED - JEH 06-01	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS OF PRECAST CONCRETE BOX CULVERT END SECTION	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\p\work\p\stdot\steffennk\d0125064\Pre-cast Culvert.dgn		DRAWN -	REVISED - MKS 09-08			656	09-00271-00-RS	SHELBY	62	13
PLOT SCALE = 2.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 95670				
PLOT DATE = 9/27/2011		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
				SCALE:	SHEET NO. OF	SHEETS	STA.	TO STA.		

STORM SEWER SCHEDULE

LOCATION	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	STORM SEWER CLASS A TYPE 1 18"	MANHOLE TYPE A 4' DIAMETER WITH TYPE 1 FRAME CLOSED LID	STORM SEWER CLASS A TYPE 1 12"	INLET TYPE A TYPE 8 GRATE	STORM SEWER CLASS A TYPE 1 15"
STA 35+19 35' LT	1.0					
STA 35+19 TO 30+00 35' LT		510.0				
STA 30+00 35' LT			1.0			
STA 30+00 TO 26+00 30' LT		398.0				
STA 26+00 30' LT			1.0			
STA 26+00 30' LT TO 21' LT				7.0		
STA 26+00 21' LT					1.0	
STA 26+00 21' LT TO 21' RT				42.0		
STA 26+00 21' RT					1.0	
STA 26+00 TO 22+00 30' LT						398.0
STA 22+00 30' LT			1.0			
STA 22+00 30' LT TO 21' LT				6.0		
STA 22+00 21' LT					1.0	
STA 22+00 21' LT TO 21' RT				42.0		
STA 22+00 21' RT					1.0	
STA 22+00 TO 19+00 30' LT						296.0
STA 19+00 30' LT			1.0			
STA 19+00 30' LT TO 21' LT				6.0		
STA 19+00 21' LT					1.0	
STA 19+00 21' LT TO 21' RT				41.0		
STA 19+00 21' RT					1.0	
TOTALS	1.0 EACH	908 FOOT	4.0 EACH	144 FOOT	6.0 EACH	694 FOOT

GRADING & SHAPING DITCHES SCHEDULE

LOCATION	O/S	QUANTITY
48+51	RT	88 FT
79+80	RT	95 FT

	TOTAL	183 FT

STONE RIPRAP CLASS A-3 SCHEDULE

LOCATION	QUANTITY
9+15 LEFT	111 TONS
79+80 RIGHT	46 TONS

TOTAL	157 TONS

PIPE CULVERT SCHEDULE

STA	PIPE CULVERTS CLASS A TYPE 1 EQUIVALENT ROUND SIZE	PIPE CULVERTS CLASS A TYPE 1 EQUIVALENT ROUND SIZE	PIPE CULVERTS CLASS A TYPE 1	PIPE CULVERTS CLASS D TYPE 1	PIPE CULVERTS CLASS D TYPE 1 EQUIVALENT ROUND SIZE	PIPE CULVERTS CLASS D TYPE 1 EQUIVALENT ROUND SIZE	PIPE CULVERTS CLASS A TYPE 1	PIPE CULVERTS CLASS D TYPE 1	PIPE CULVERTS CLASS D TYPE 1	PRECAST REINFORCED CONCRETE FLARED END SECTIONS EQUIVALENT ROUND SIZE	PRECAST REINFORCED CONCRETE FLARED END SECTIONS EQUIVALENT ROUND SIZE	PRECAST REINFORCED CONCRETE FLARED END SECTIONS	PRECAST REINFORCED CONCRETE FLARED END SECTIONS
AR 9+15	36"	30"	24"	15"	15"	18"	30"	18"	24"	36"	30"	24"	30"
LT 15+36	53 FT					34 FT				2			
LT 29+00				44 FT									
RT 29+00				42 FT									
RT 34+70								44 FT					
AR 35+20		40 FT									2		
RT 47+88								52 FT					
LT 48+25				46 FT									
AR 48+51			53 FT									2	
LT 48+78				46 FT									
RT 53+03					42 FT								
LT 54+90					48 FT								
LT 55+45					48 FT								
LT 56+76				52 FT									
LT 58+48				68 FT									
AR 60+10			56 FT									2	
AR 75+91							68 FT						2
LT 77+65								48 FT					
LT 79+50									54 FT				
AR 79+80							48 FT						
LT 86+92				48 FT									2
LT 88+50					52 FT								
TOTALS	53 FT	40 FT	109 FT	346 FT	190 FT	34 FT	116 FT	144 FT	54 FT	2 EA	2 EA	4 EA	4 EA

INLET & PIPE PROTECTION SCHEDULE

STA	O/S	QTY
9+15	RT	1
15+53	LT	1
19+00	LT	1
19+00	RT	1
22+00	LT	1
22+00	RT	1
28+78	LT	1
28+79	RT	1
34+48	RT	1
35+20	LT	1
47+62	RT	1
48+02	LT	1
48+51	LT	1
48+99	LT	1
53+24	RT	1
54+69	LT	1
56+50	LT	1
58+14	LT	1
75+68	LT	1
77+41	LT	1
79+23	LT	1
79+80	LT	1
87+16	LT	1
88+76	LT	1

	TOTAL	24 EACH

TRENCH BACKFILL SCHEDULE

LOCATION	QUANTITY
AR 9+15	3 CU YD
AR 19+00	2 CU YD
AR 22+00	3 CU YD
AR 26+00	3 CU YD
AR 35+50	4 CU YD
AR 48+51	7 CU YD
AR 60+10	9 CU YD
AR 75+91	8 CU YD
AR 79+80	12 CU YD

TOTAL	51 CU YD

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SCHEDULE OF SURVEY MONUMENTS

STA	O/S	QTY
35+22.25	3.23 RT	1.0
61+83.15	7.13 LT	1.0
88+15.80	1.37 RT	1.0
	TOTAL	3.0 EACH

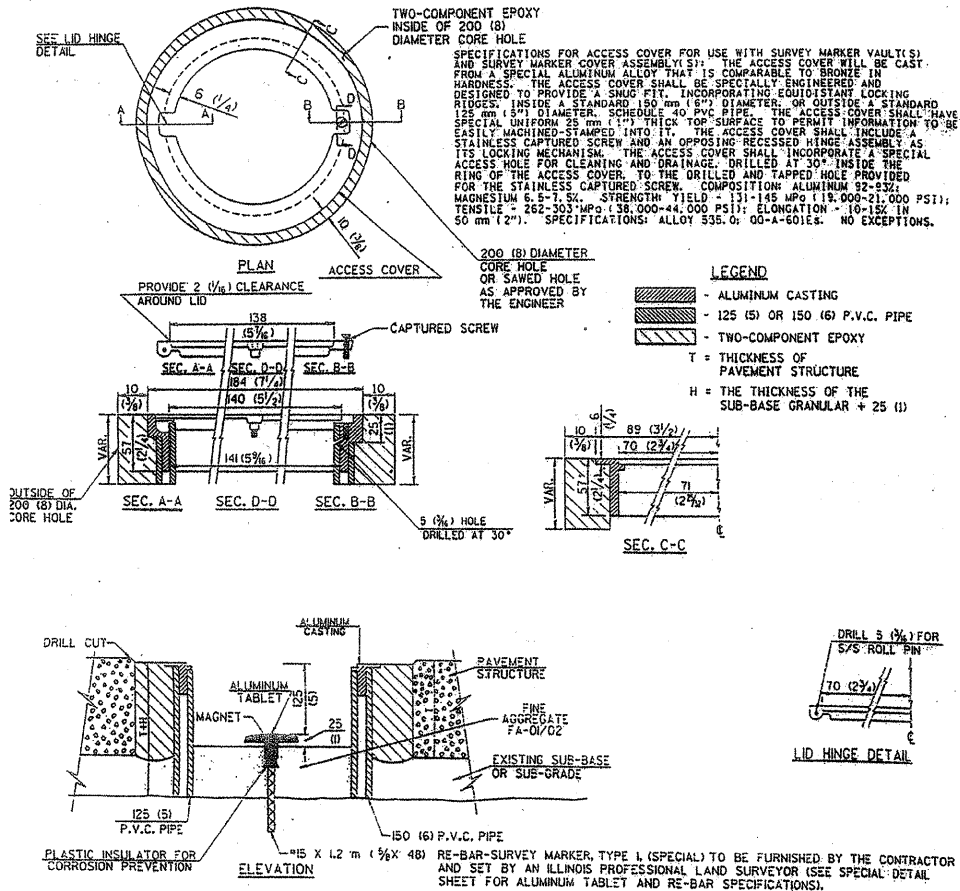
FURNISH & ERECTING R.O.W. MARKERS

STA	O/S	QUANTITY (EACH)
317+00	40' LT	1
317+25	50' LT	1
319+00	45' LT	1
9+25	50' RT	1
9+35	60' LT	1
9+50	45' LT	1
9+50	45' RT	1
11+00	40' LT	1
11+00	40' RT	1
12+00	40' LT	1
13+00	35' RT	1
14+00	35' LT	1
14+00	35' RT	1
15+00	30' RT	1
28+00	35' LT	1
28+00	30' RT	1
36+00	40' LT	1
36+00	35' RT	1
37+00	30' LT	1
37+00	30' RT	1
40+00	30' RT	1
41+00	30' LT	1
41+00	35' RT	1
43+00	40' LT	1
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50+00	40' RT	1
51+00	40' LT	1
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54+00	30' RT	1
55+00	30' RT	1
56+00	35' LT	1
56+00	35' RT	1
58+00	45' LT	1
58+00	40' RT	1
59+00	45' RT	1
60+00	45' LT	1
61+00	50' LT	1
61+40	50' LT	1
61+47	45' RT	1
61+47	350' RT	1
61+62	350' RT	1
61+67	75' LT	1
62+07	75' LT	1
62+07	75' RT	1
62+25	50' LT	1
62+25	45' RT	1
63+00	50' LT	1
63+00	40' LT	1
63+00	45' RT	1
65+00	40' LT	1
65+00	40' RT	1
69+00	30' LT	1
71+00	40' LT	1
71+00	30' RT	1
73+00	45' LT	1
73+00	40' RT	1
76+00	45' LT	1
77+00	55' LT	1
78+00	50' LT	1
78+00	40' RT	1
79+00	45' RT	1
80+00	50' LT	1
80+00	35' RT	1
81+00	40' LT	1
82+00	35' LT	1
83+00	35' LT	1
84+00	45' LT	1
85+00	45' LT	1
85+00	30' RT	1
86+00	35' LT	1
	TOTAL	71

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DETAIL OF SURVEY MARKER VAULT

FOR RESET LAND SURVEY MONUMENTS IN RIGID AND COMPOSITE PAVEMENTS



GENERAL NOTES

1. ALUMINUM CASTING SHALL BE EITHER PLACED OVER A 125 mm (5") P.V.C. PIPE OR INSIDE OF A 150 mm (6") P.V.C. PIPE.
2. BACKFILL WITH FINE AGGREGATE-FA-01/02.
3. WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF CLASS 1 HAS BEEN COMPLETED.
4. SEE SPECIAL PROVISION "PRESERVATION OF LAND SURVEY MONUMENTS".
5. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MARKER VAULT WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING, EPOXY AND FA-01/02 AGGREGATE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
6. THE CASTING SHALL BE ANCHORED IN THE 200 mm (8") DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01(725.01) OF THE STANDARD SPECIFICATIONS.
7. ALL SURVEY MARKER (VAULTS) SHALL BE PLACED 6 mm (1/4") BELOW THE FINAL SURFACE.
8. THE 200 mm (8") DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

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

BILL OF MATERIAL
ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 125 mm OR 150 mm (5" OR 6") P.V.C. PIPE, SCHEDULE 40, ALUMINUM TABLET, STAMPED IN ACCORDANCE WITH STANDARD 2135, 15 X 12 mm (1/2" X 48") RE-BAR, EPOXY AND FA-01/02 AGGREGATE.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	09-00271-00-RS	SHELBY	62	16

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TEMPORARY DITCH CHECKS

STA	O/S	QUANTITY (FOOT)
12+00	LT	8
12+00	RT	8
15+00	LT	8
15+00	RT	8
18+00	LT	8
18+00	RT	8
21+00	LT	8
21+00	RT	8
24+00	LT	8
24+00	RT	8
27+00	LT	8
27+00	RT	8
30+00	LT	8
30+00	RT	8
33+00	LT	8
33+00	RT	8
36+00	LT	8
36+00	RT	8
39+00	LT	8
39+00	RT	8
42+00	LT	8
42+00	RT	8
45+00	LT	8
45+00	RT	8
48+00	LT	8
48+00	RT	8
51+00	LT	8
51+00	RT	8
54+00	LT	8
54+00	RT	8
57+00	LT	8
57+00	RT	8
60+00	LT	8
60+00	RT	8
63+00	LT	8
63+00	RT	8
66+00	LT	8
66+00	RT	8
69+00	LT	8
69+00	RT	8
72+00	LT	8
72+00	RT	8
75+00	LT	8
75+00	RT	8
78+00	LT	8
78+00	RT	8
81+00	LT	8
81+00	RT	8
84+00	LT	8
84+00	RT	8
87+00	LT	8
87+00	RT	8
	TOTAL	416 FT

PERIMETER EROSION BARRIER

Perimeter Erosion Barrier shall be placed at locations as directed by the Engineer.

The quantity in the plans is estimated to establish a contract unit price. Final payment will be made based upon the amount ordered and installed.

SHORT TERM PAVEMENT MARKING SCHEDULE

STA TO STA	LIFT	QUANTITY (FOOT)
8+75.50 TO 90+00	FINAL WEARING SURFACE	812 (*)
	TOTAL	812

WORK ZONE PAVEMENT MARKING REMOVAL SCHEDULE

STA TO STA	LIFT	QUANTITY
8+75.50 TO 90+00	FINAL WEARING SURFACE	268 (**) SQ FT
	TOTAL	268 SQ FT

* TO BE APPLIED ONLY IF DIRECTED BY THE ENGINEER

** ONLY IF SHORT-TERM PAVEMENT MARKING IS APPLIED TO THE FINAL WEARING SURFACE

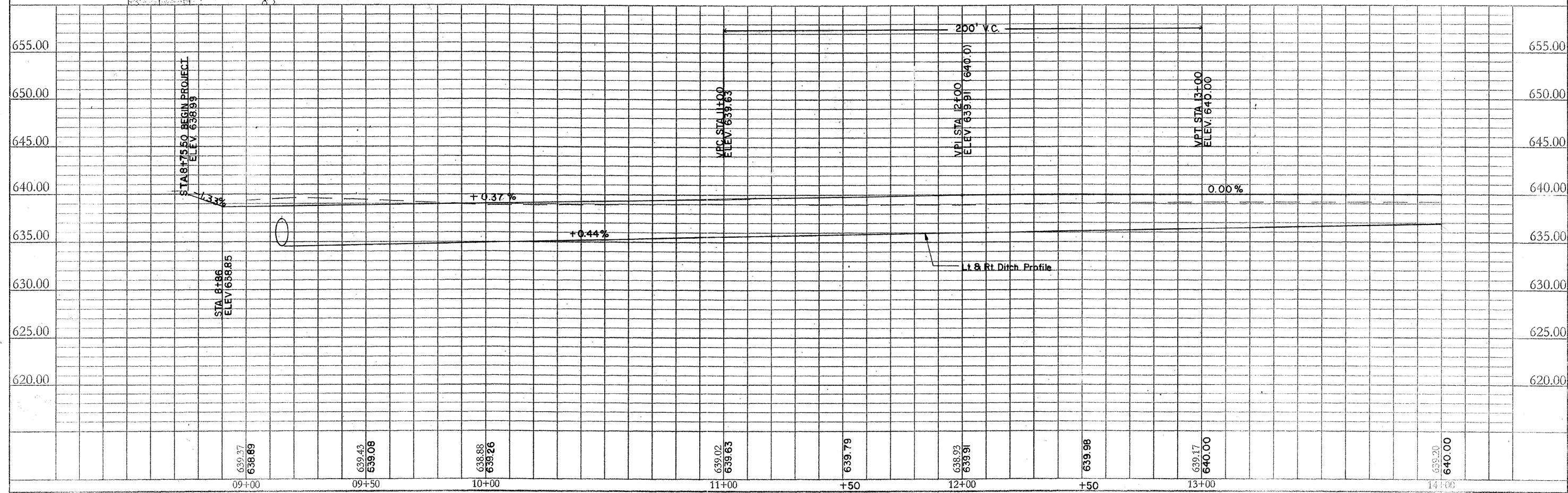
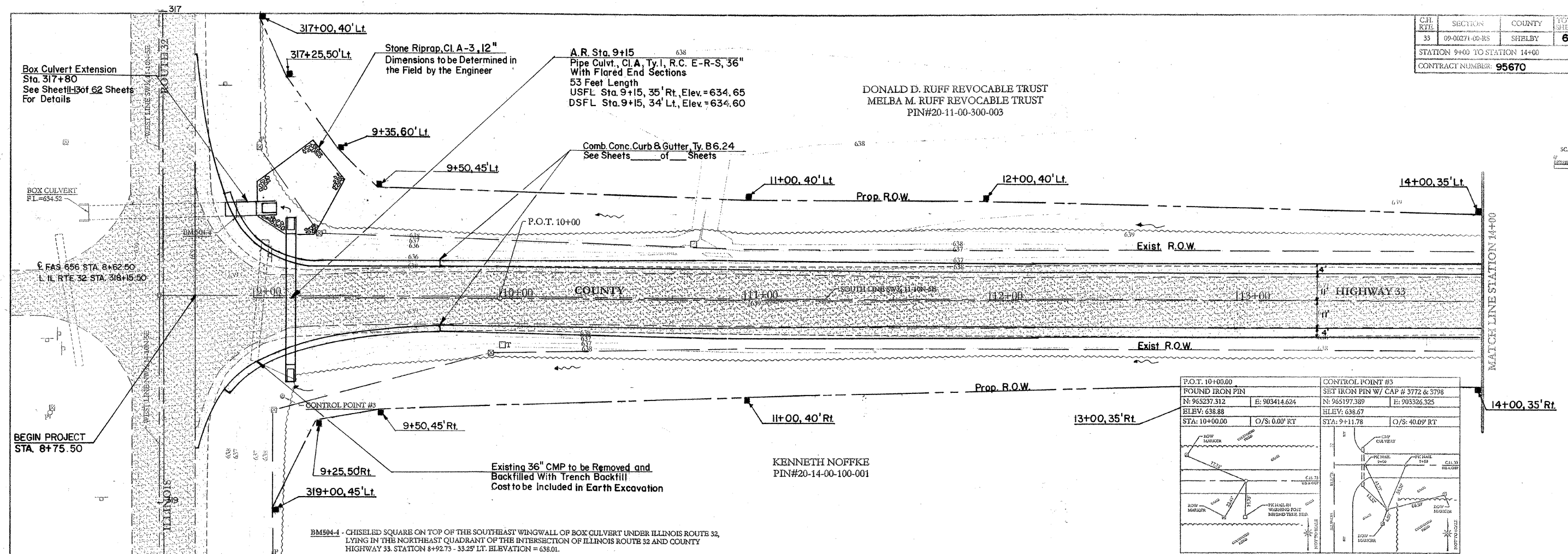
EPOXY PAVEMENT MARKING - LINE 24" SCHEDULE

STATION	TYPE	LOCATION	COLOR	QUANTITY (FEET)
8+89.55	STOP BAR	RIGHT	WHITE	30
			TOTAL	30

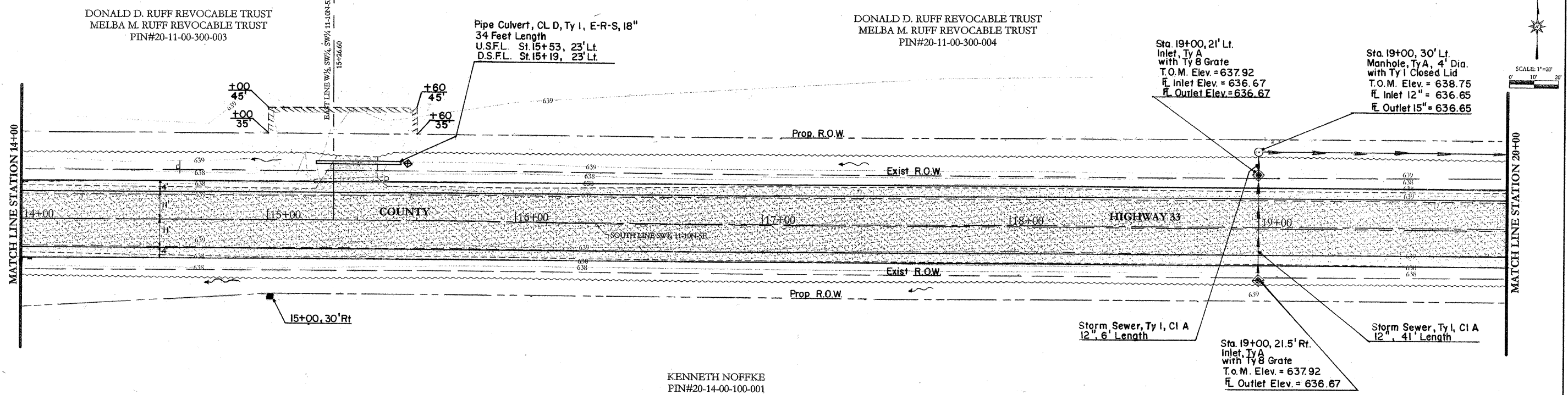
SHELBY COUNTY
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CH. RFL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	17

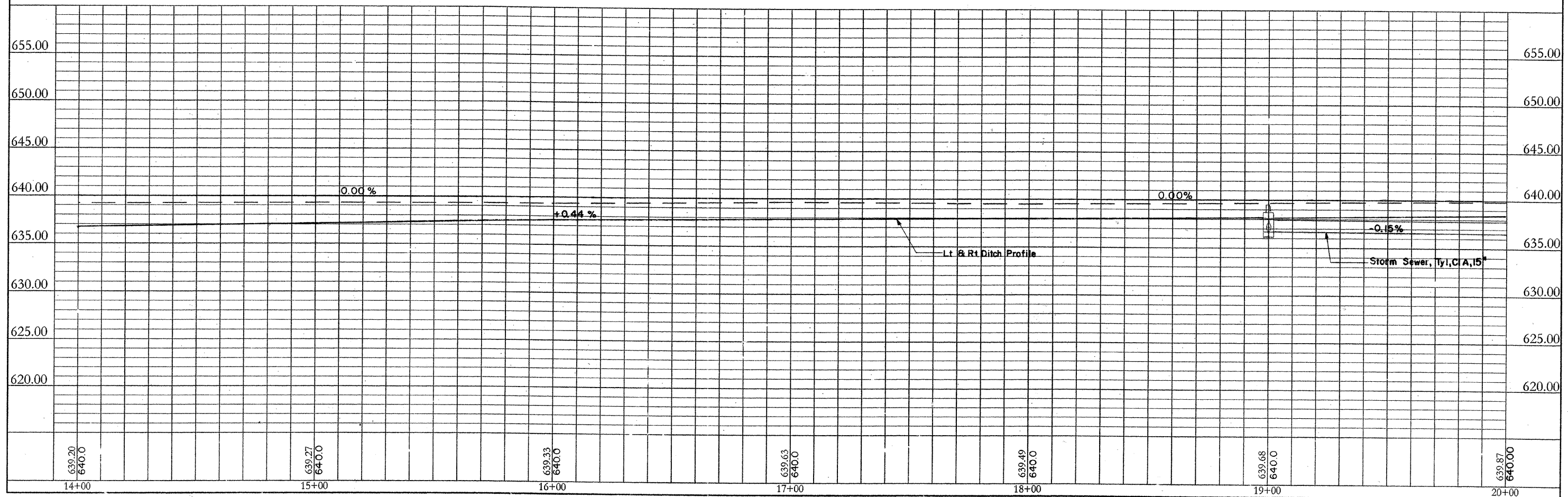
STATION 9+00 TO STATION 14+00
CONTRACT NUMBER: 95670



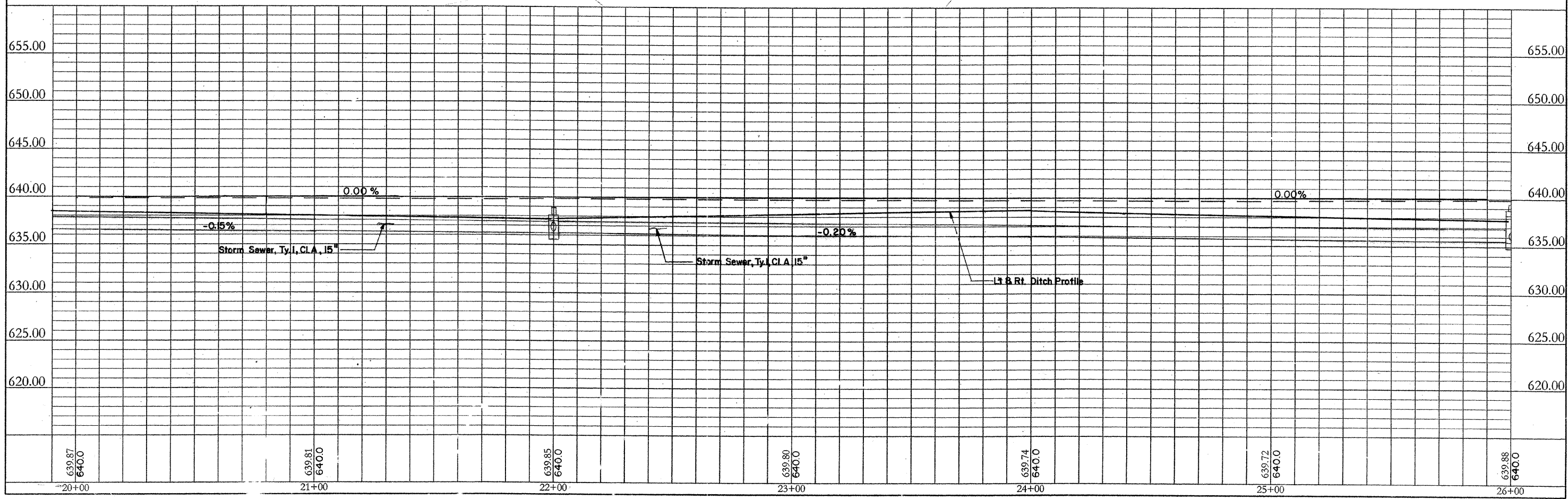
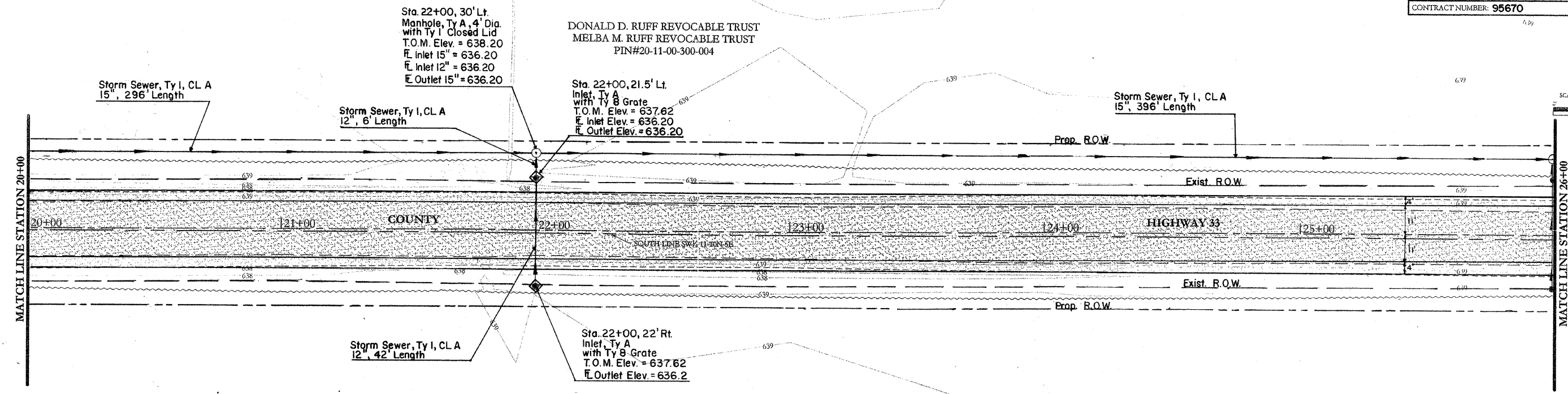
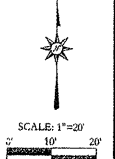
CH. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	18
STATION 14+00 TO STATION 20+00				
CONTRACT NUMBER 95670				

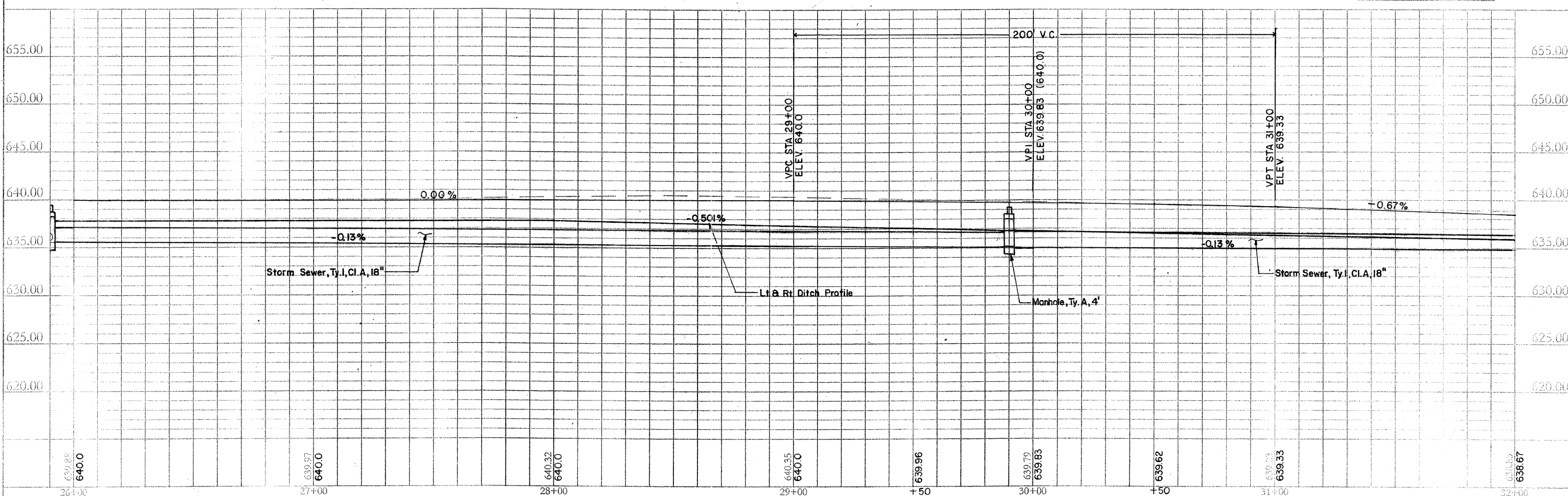
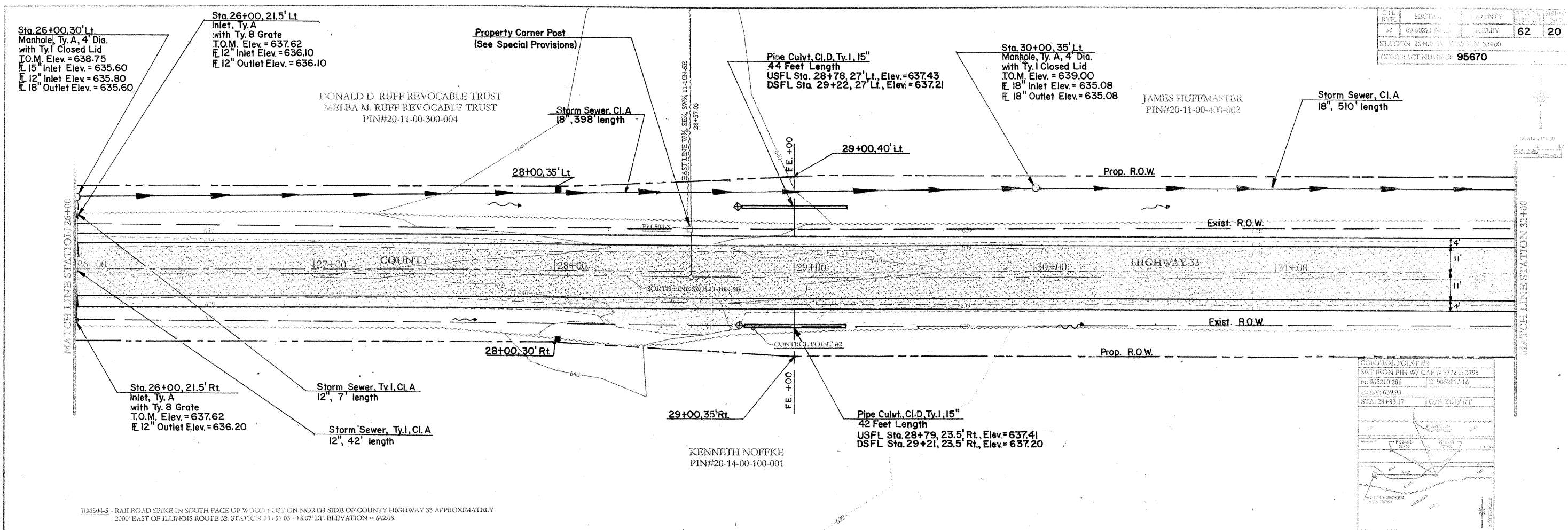


KENNETH NORFKE
PIN#20-14-00-100-001

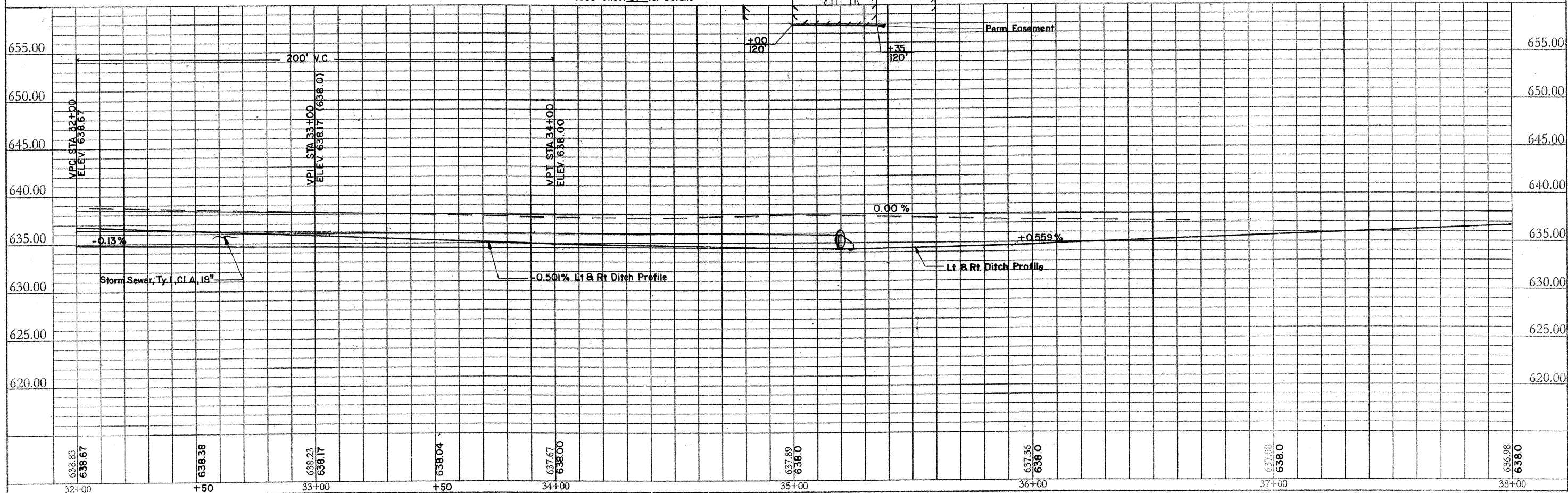
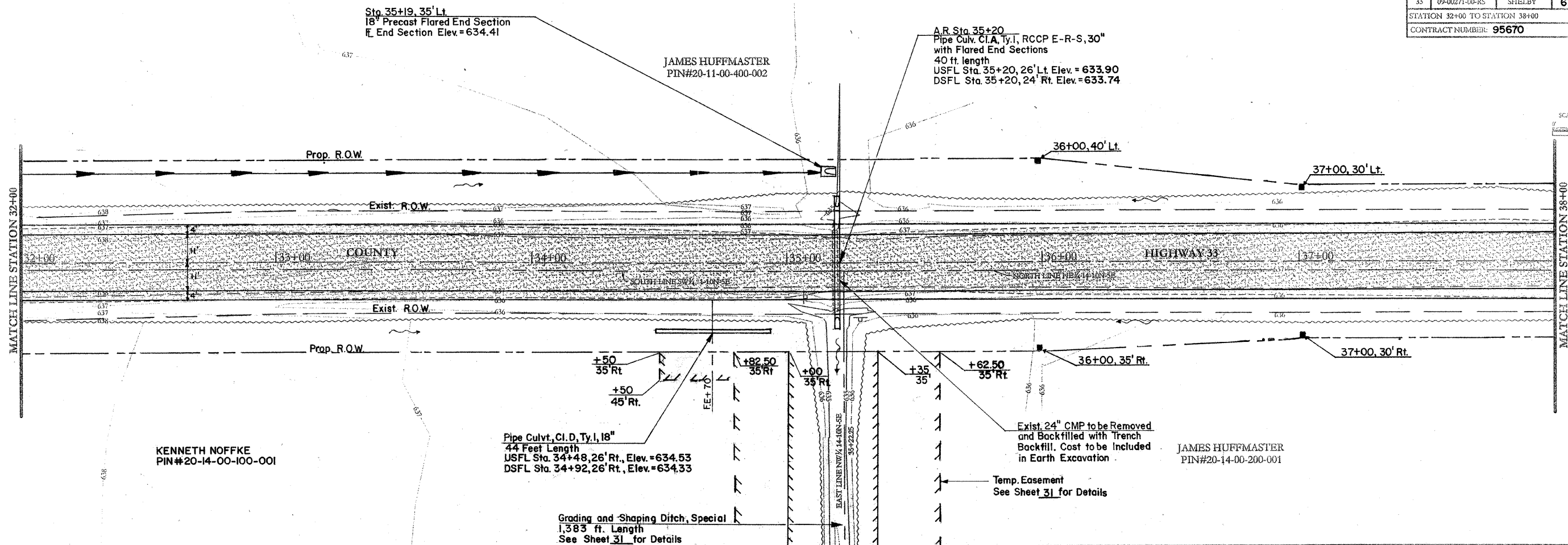


CH. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	19
STATION 20+00 TO STATION 26+00				
CONTRACT NUMBER: 95670				

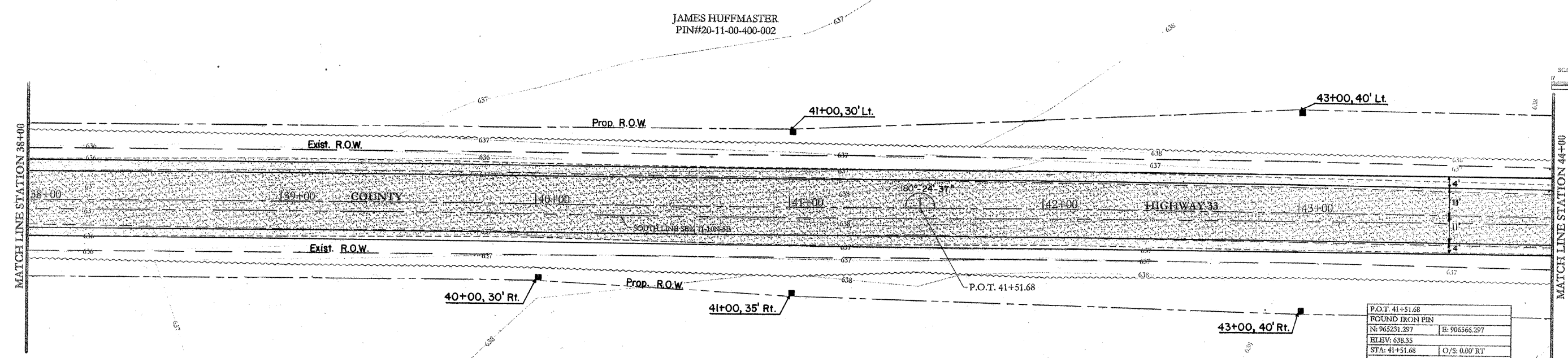
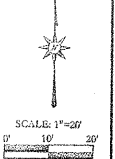




CH. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-R5	SHELBY	62	21
STATION 32+00 TO STATION 38+00				
CONTRACT NUMBER: 95670				

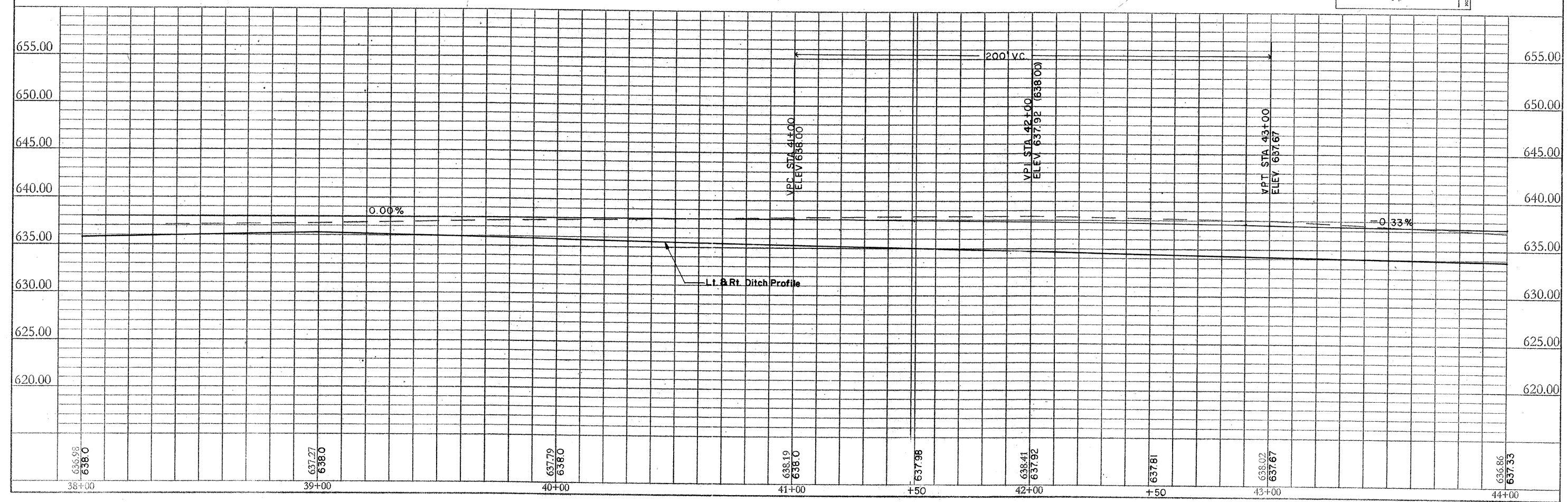


CH RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-C9-RS	SHELBY	62	22
STATION 38+00 TO STATION 44+00				
CONTRACT NUMBER: 95670				



P.O.T. 41+51.68
FOUND IRON PIN
N: 965231.297 E: 906366.297
ELEV: 638.35
STA: 41+51.68 O/S: 0.00' RT

JAMES HUFFMASTER
PIN#20-14-00-200-001



CONTROL POINT #4	
SET IRON PIN W/ CAP # 3772 & 3798	
N: 965248.410	E: 907235.436
ELEV: 634.18	
STA: 48+20.64	O/S: 23.18' LT

JAMES HUFFMASTER
PIN#20-11-00-400-002

Pipe Culvt., Cl. D, Ty. I, 15"
46 ft. Length
USFL Sta. 48+02, 33' Lt., Elev.=631.59
DSFL Sta. 48+48, 33' Lt., Elev.=631.36

FLORENCE FIGGINS
PIN # 20-11-00-400-006

C.H. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	23

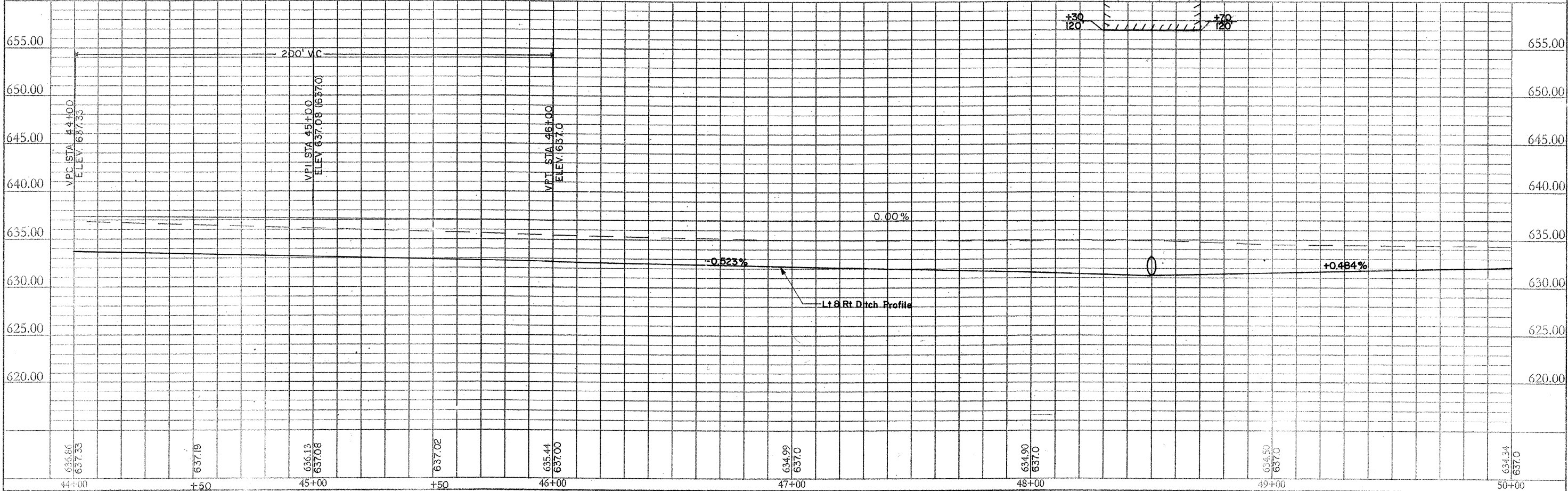
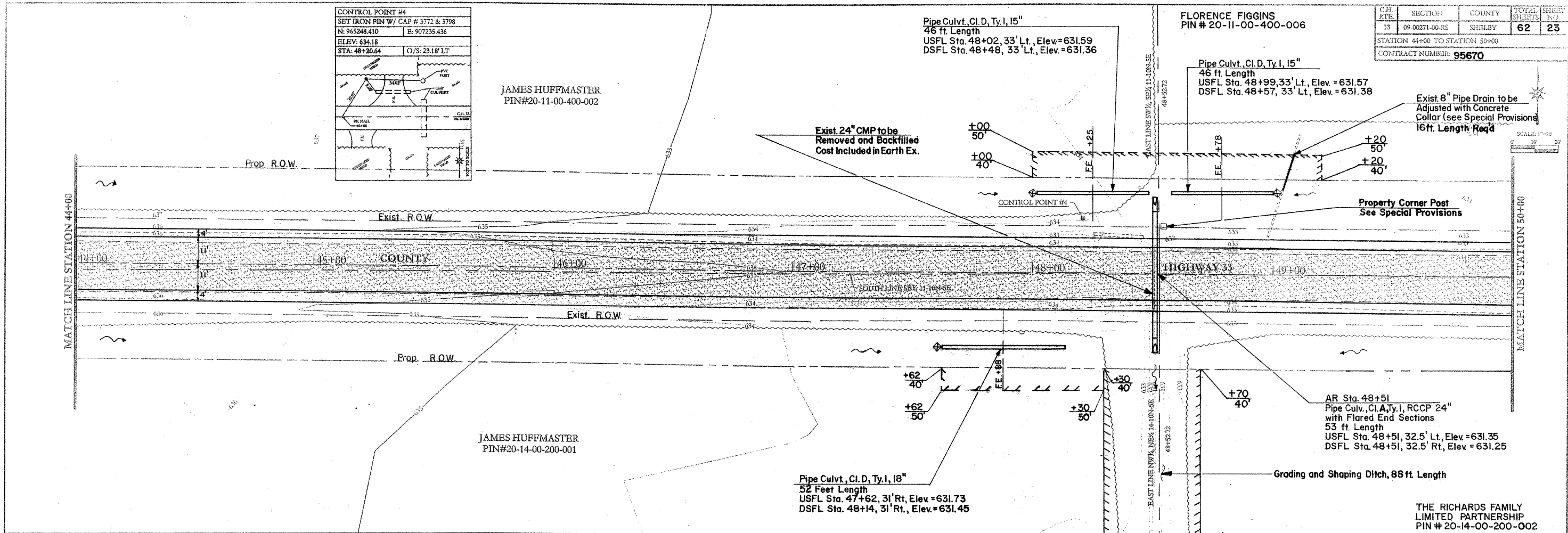
STATION 44+00 TO STATION 50+00

CONTRACT NUMBER: 95670

Pipe Culvt., Cl. D, Ty. I, 15"
46 ft. Length
USFL Sta. 48+99, 33' Lt., Elev. = 631.57
DSFL Sta. 48+57, 33' Lt., Elev. = 631.38

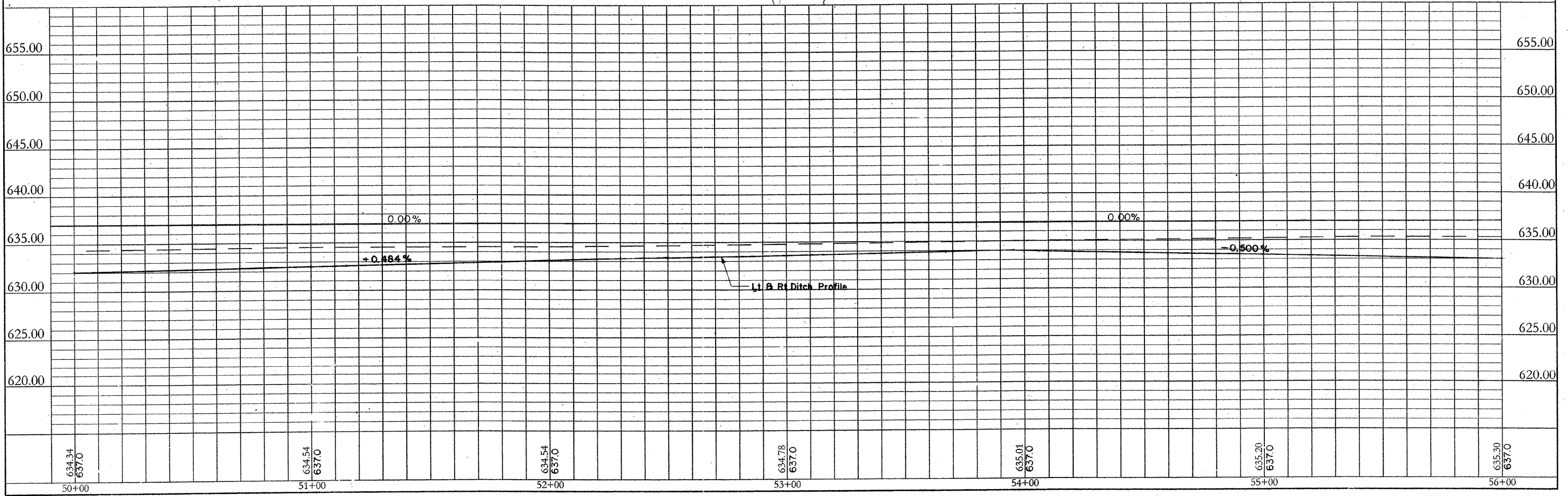
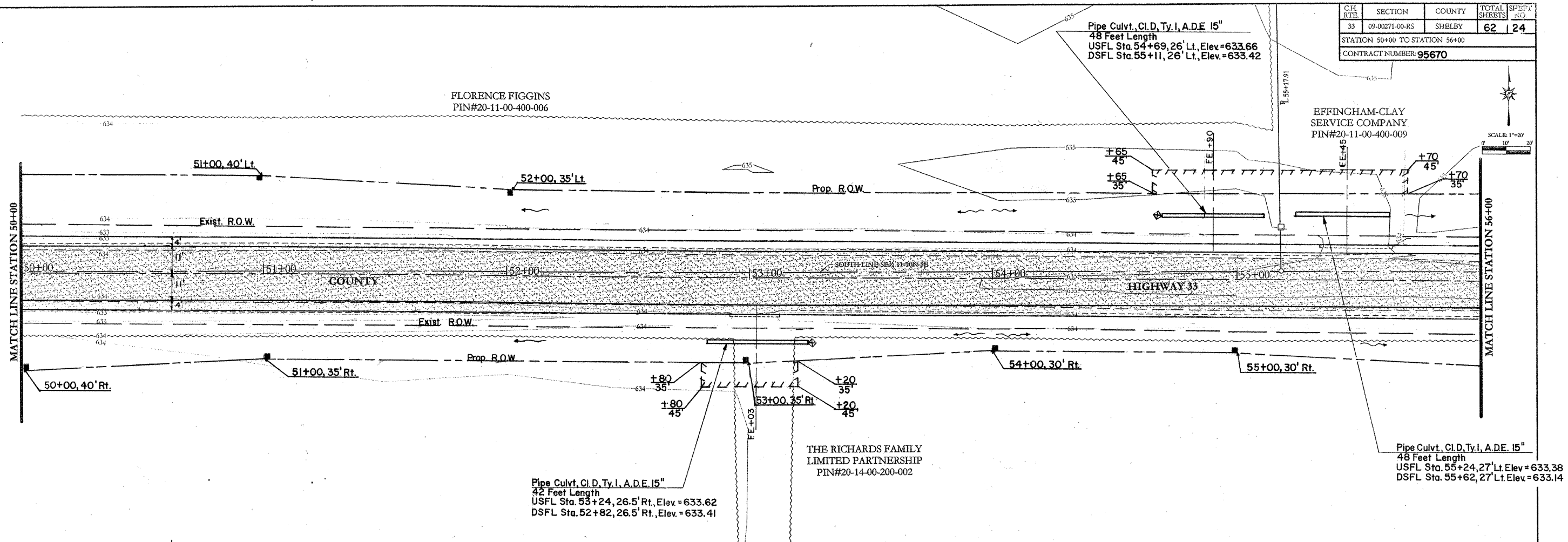
Exist. 8" Pipe Drain to be
Adjusted with Concrete
Collar (see Special Provisions)
16 ft. Length Req'd

SCALE: 1"=30'

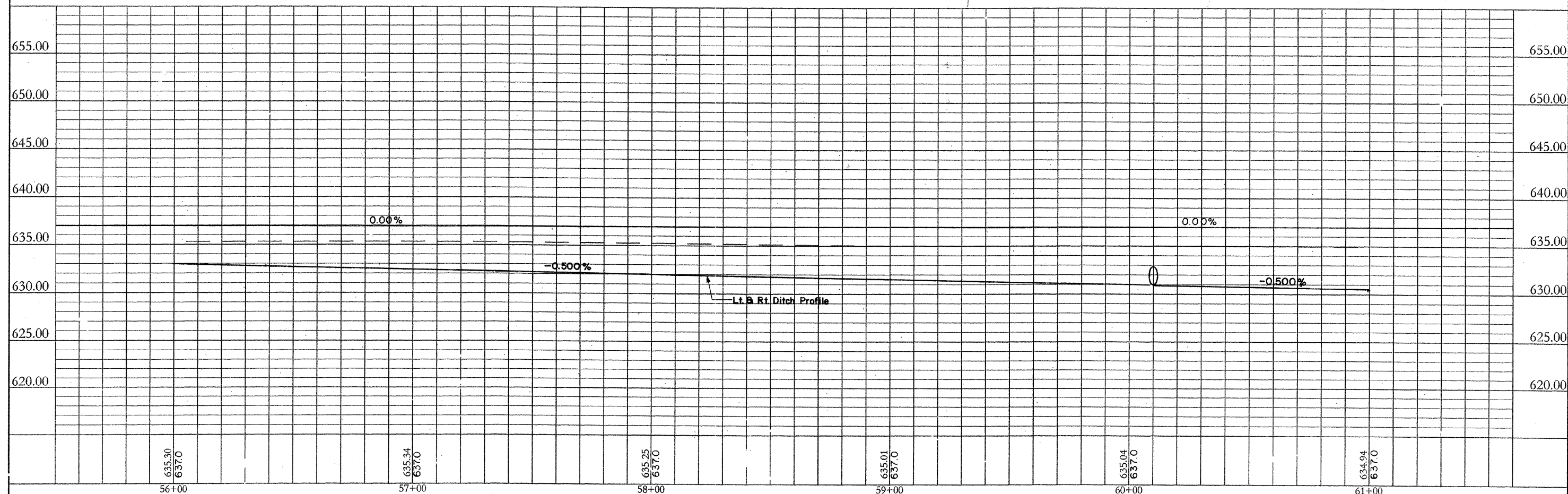
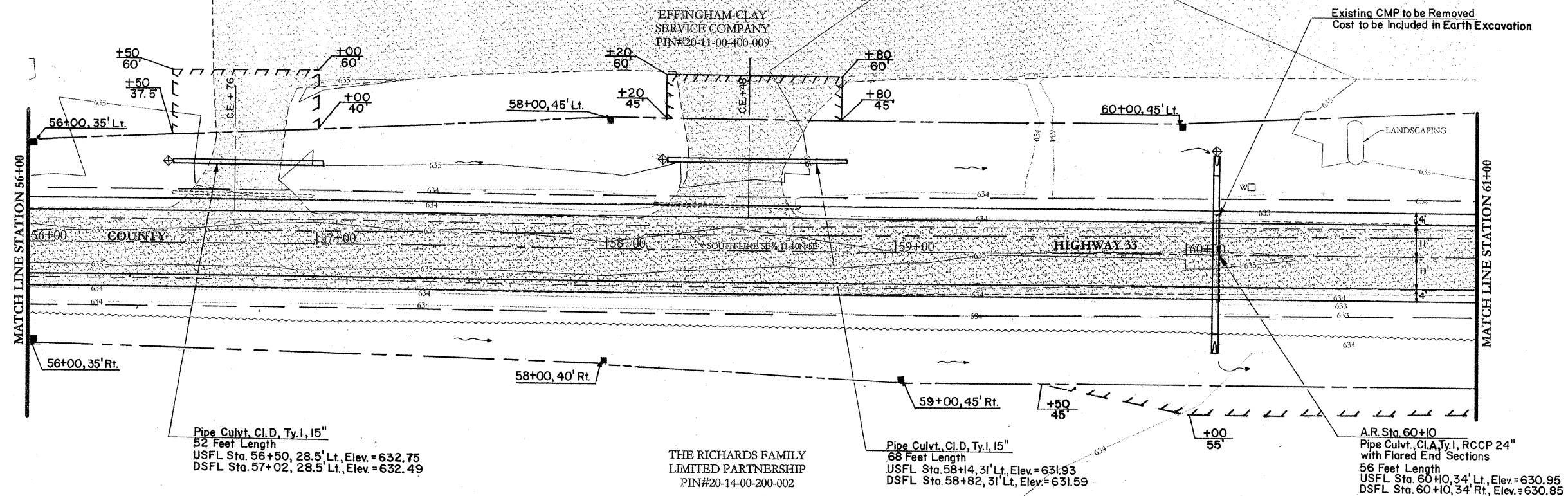


CH. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	24

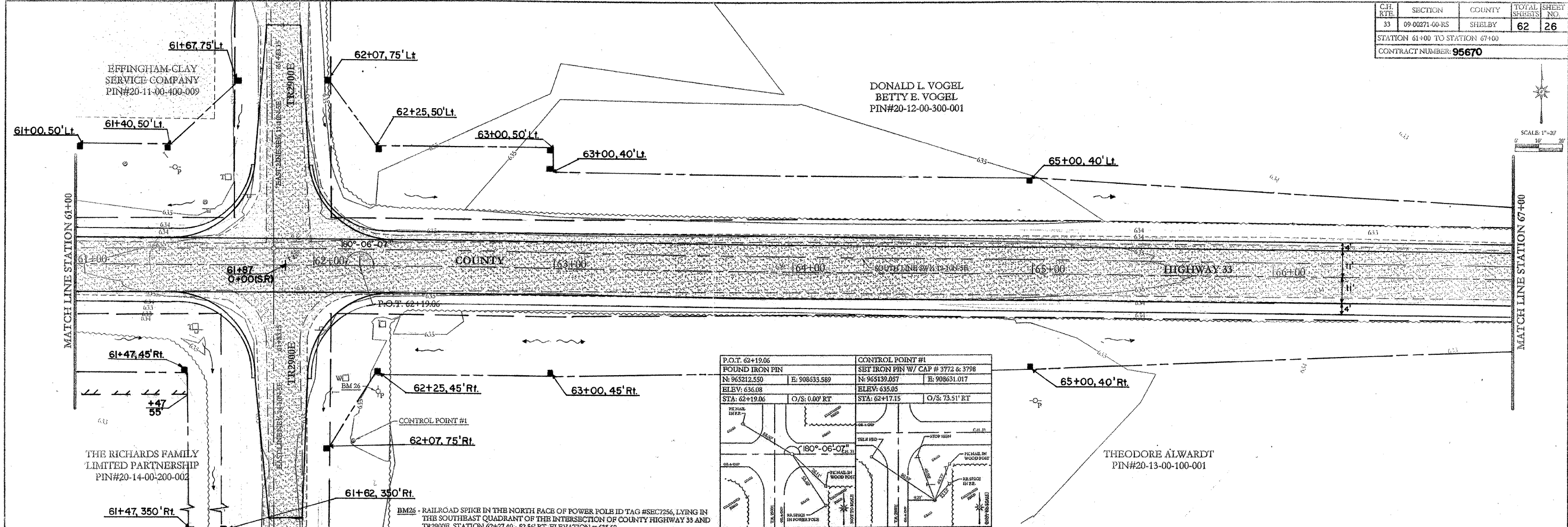
STATION 50+00 TO STATION 56+00
CONTRACT NUMBER: 95670



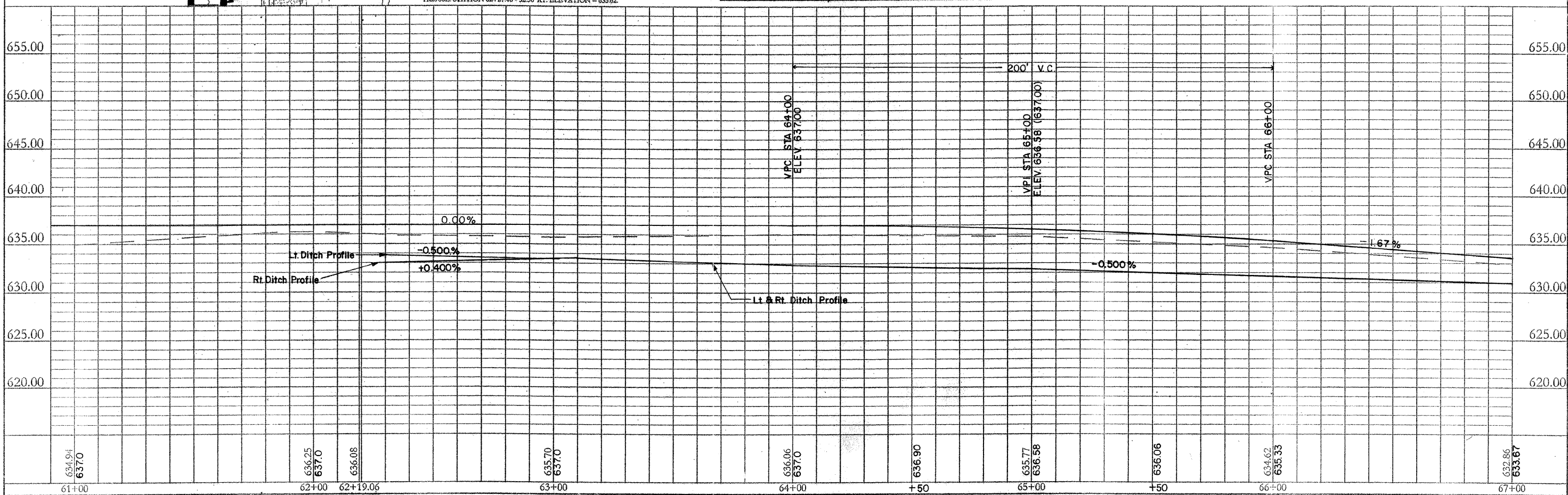
C.H. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	23
STATION 56+00 TO STATION 61+00				
CONTRACT NUMBER 95670				



CH. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	26
STATION 61+00 TO STATION 67+00				
CONTRACT NUMBER: 95670				

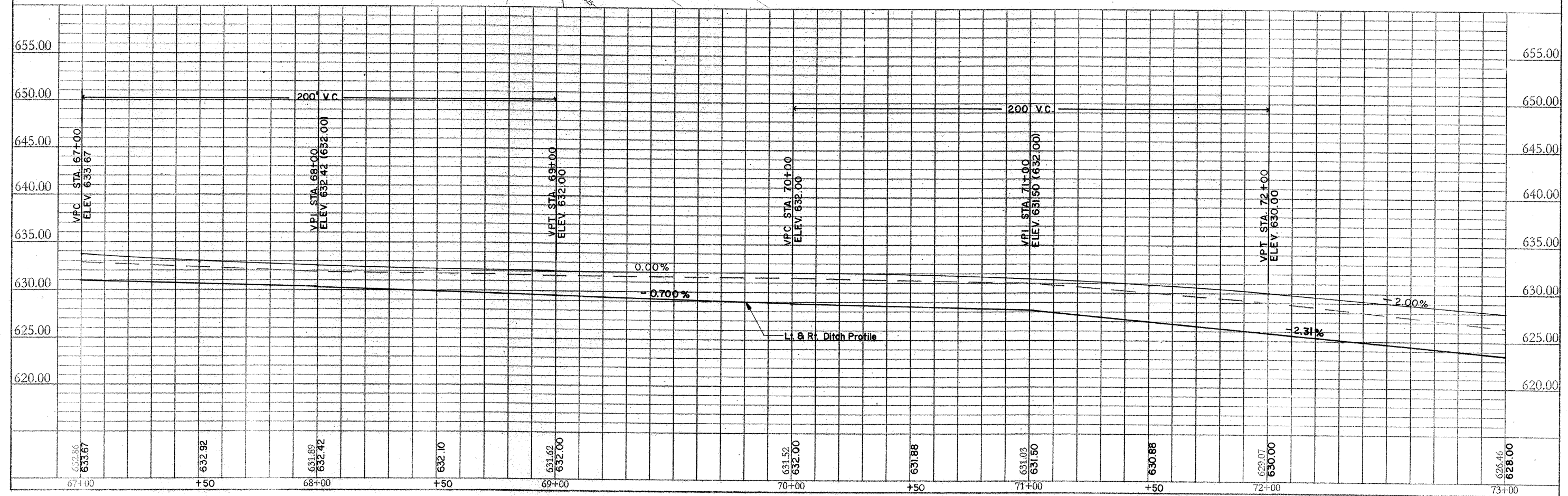
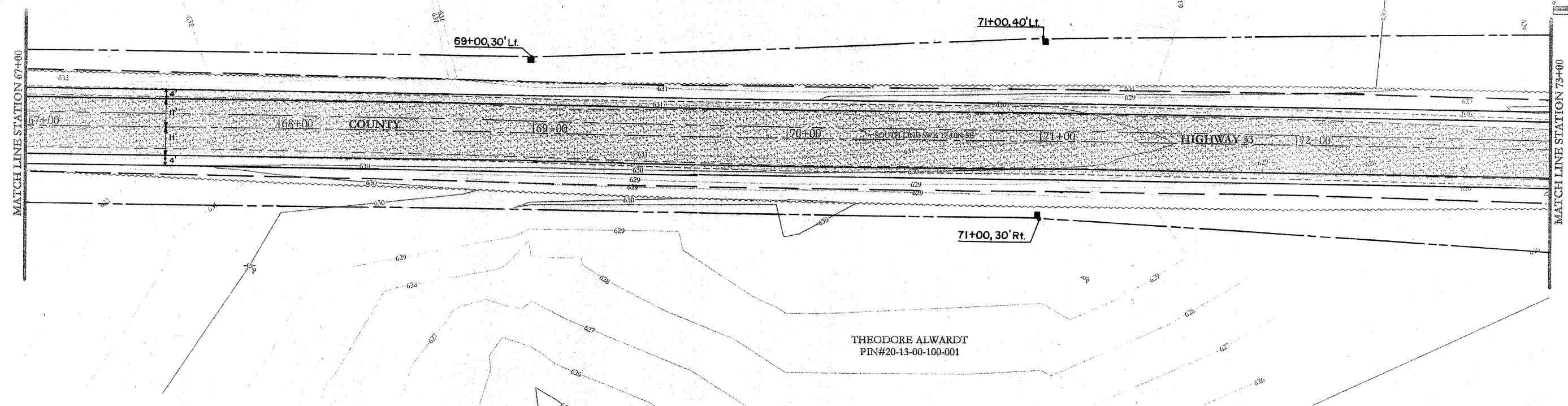
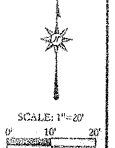


P.O.T. 62+19.06		CONTROL POINT #1	
FOUND IRON PIN		SET IRON PIN W/ CAP # 3772 & 3798	
N: 965212.550	E: 908633.589	N: 965139.057	E: 908631.017
ELEV: 636.08		ELEV: 635.05	
STA: 62+19.06	O/S: 0.00' RT	STA: 62+17.15	O/S: 73.51' RT



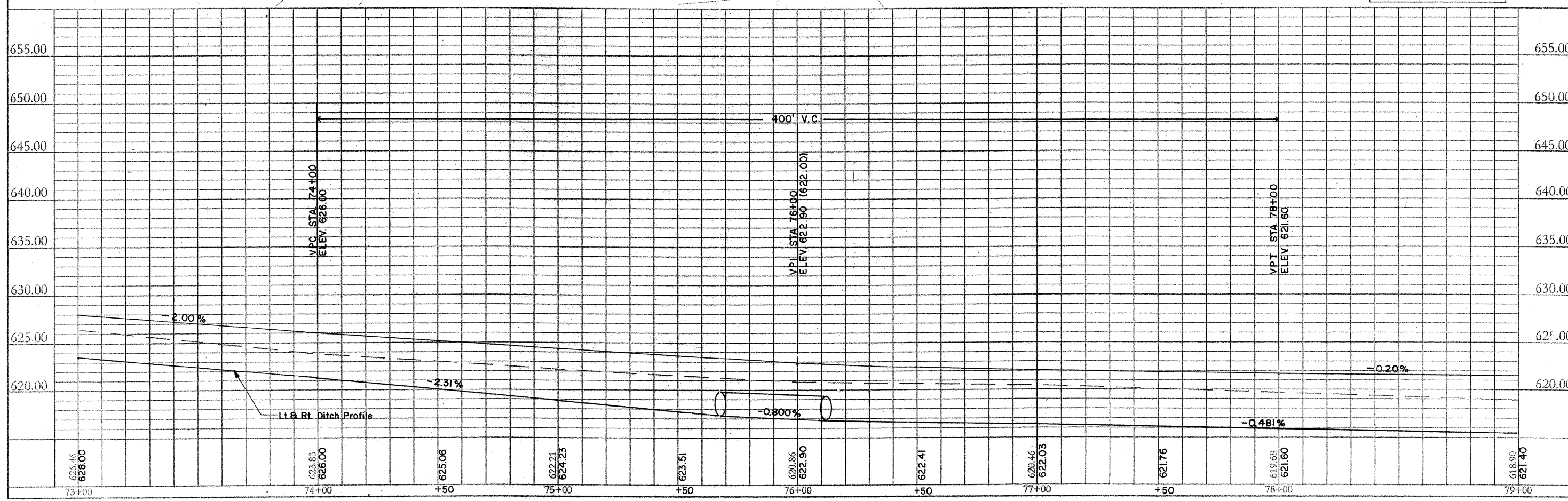
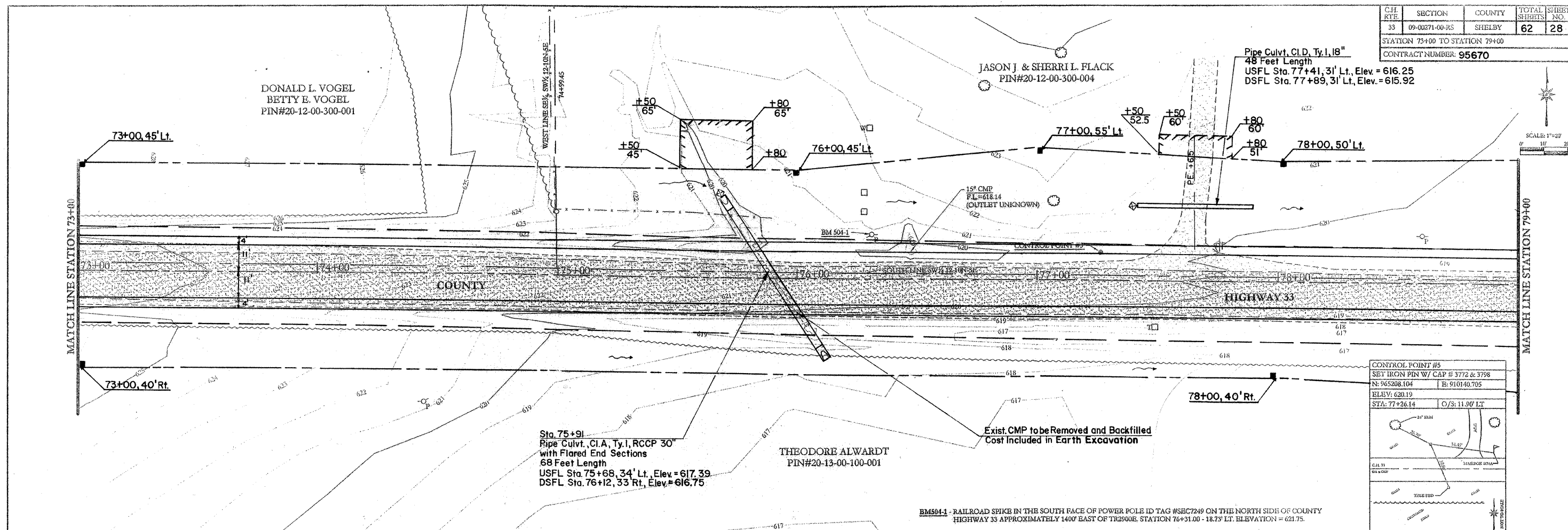
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	27
STATION 67+00 TO STATION 73+00				
CONTRACT NUMBER: 95670				

DONALD L. VOGEL
 BETTY E. VOGEL
 PIN#20-12-00-300-001

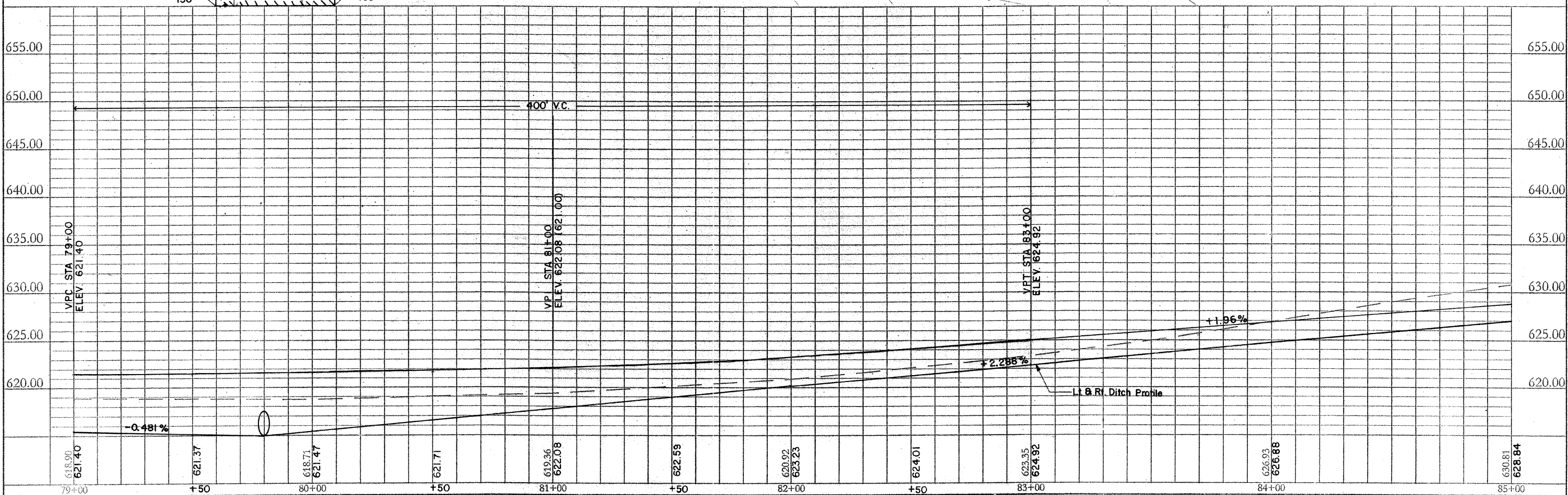
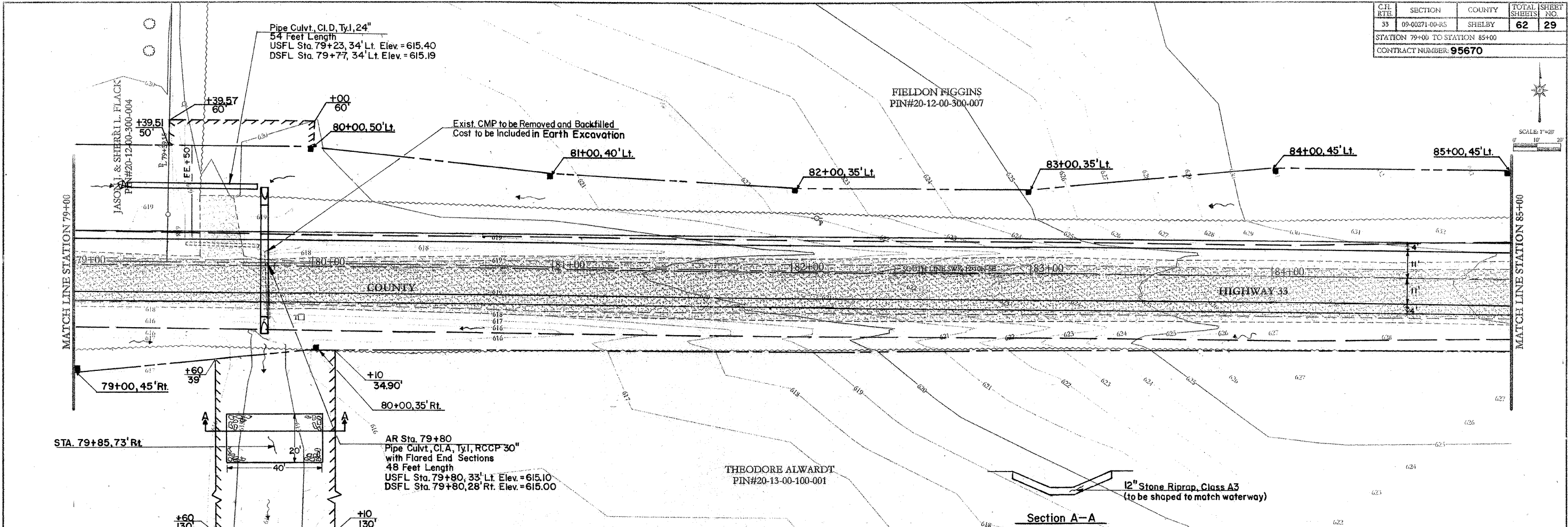


C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-15	SHELBY	62	28

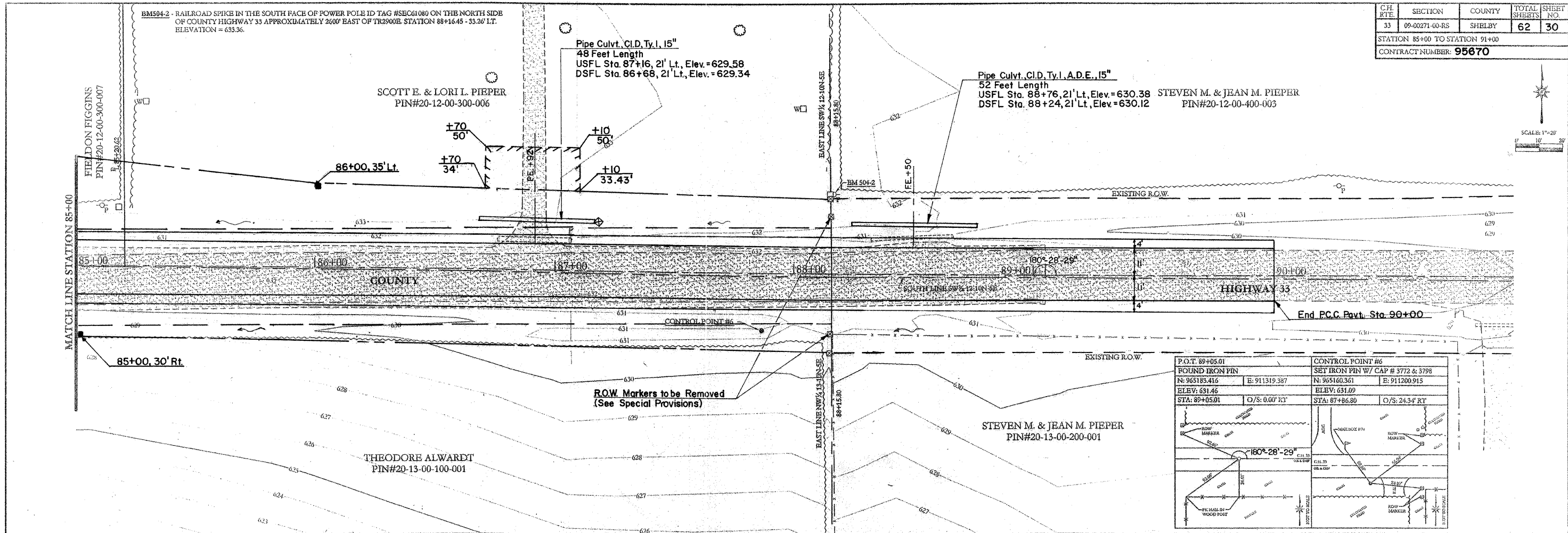
STATION 75+00 TO STATION 79+00
CONTRACT NUMBER: 95670



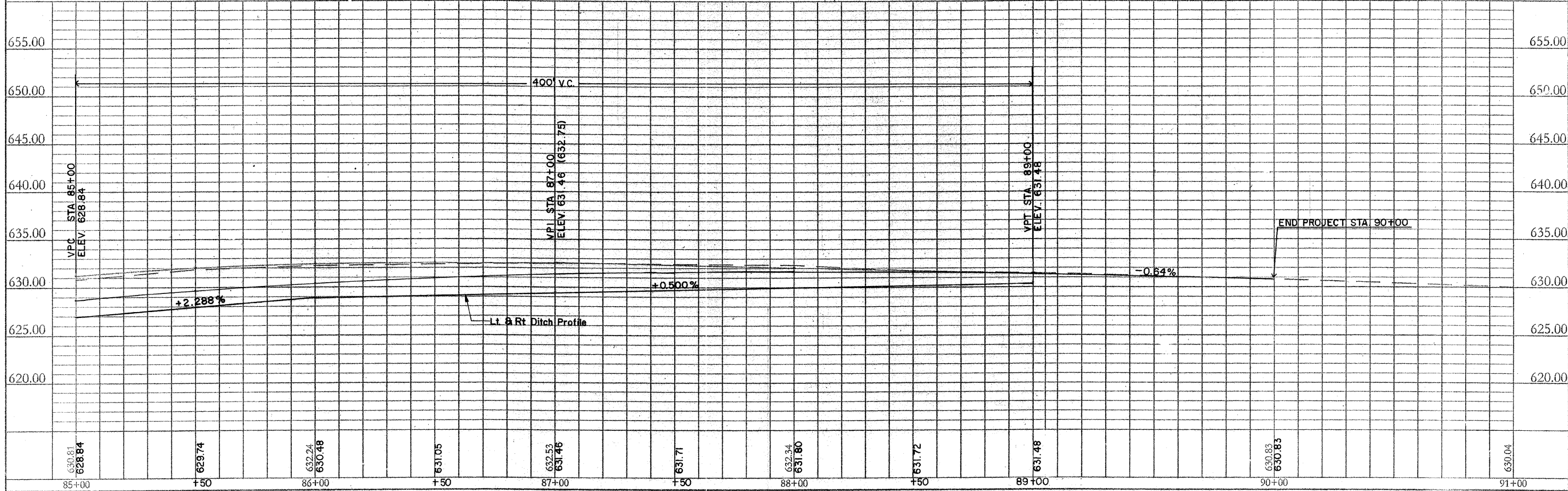
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00371-00-R5	SHELBY	62	29
STATION 79+00 TO STATION 85+00				
CONTRACT NUMBER: 95670				

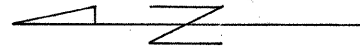


CH. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	30
STATION 85+00 TO STATION 91+00				
CONTRACT NUMBER: 95670				

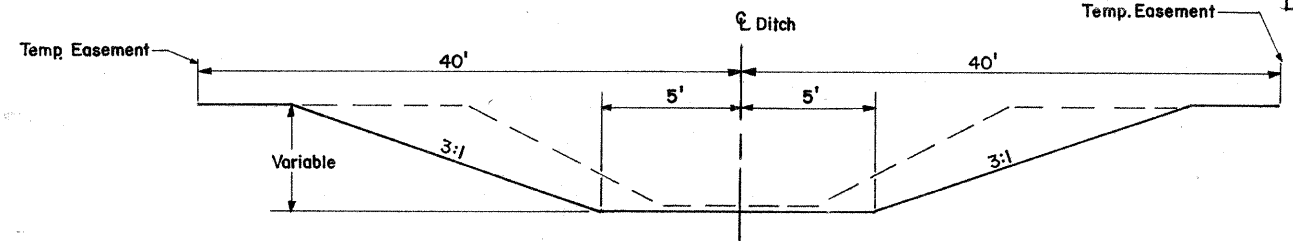


P.O.T. 89+05.01		CONTROL POINT #6	
FOUND IRON PIN		SET IRON PIN W/ CAP # 3772 & 3798	
N: 965183.415	E: 911319.387	N: 965160.361	E: 911200.915
ELEV: 631.46		ELEV: 631.09	
STA: 89+05.01	O/S: 0.00' RT	STA: 87+86.80	O/S: 24.34' RT



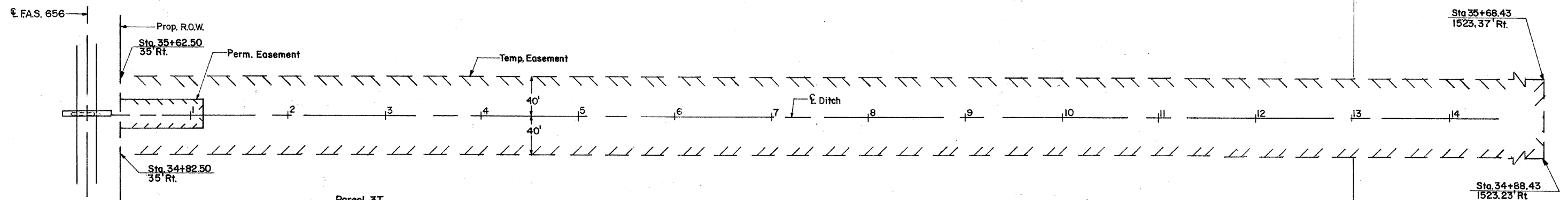


Parcel 5T
James Huffmaster



PROPOSED TYPICAL DITCH SECTION

Parcel 8T
The Richards Family Limited Partnership

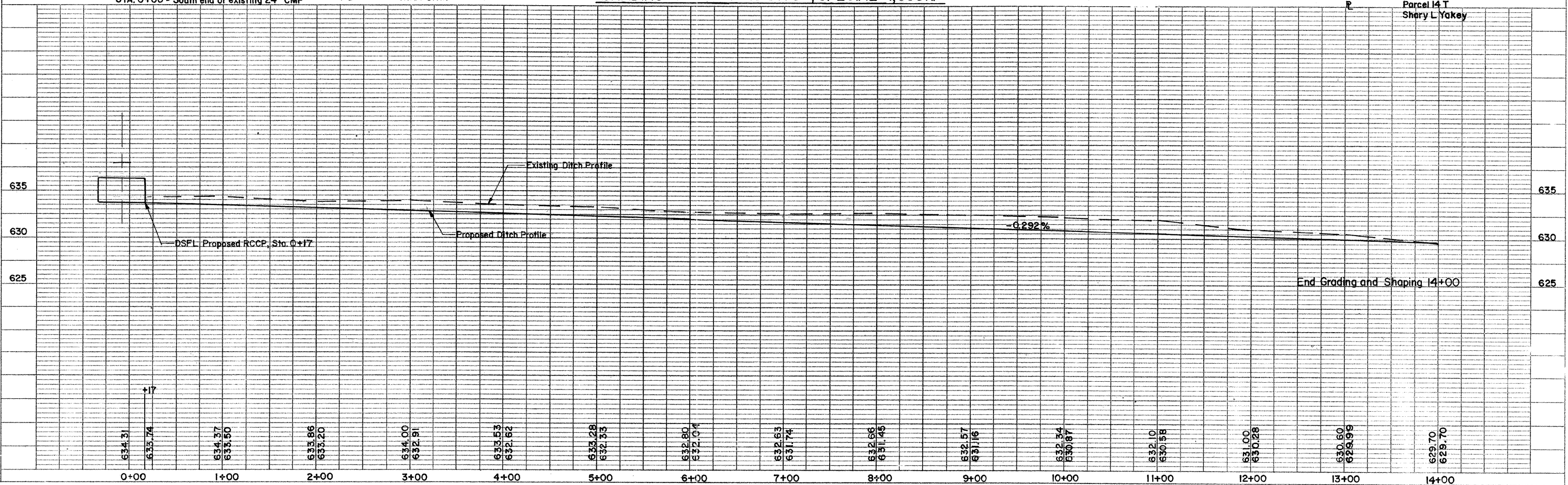


STA. 0+00 = South end of existing 24" CMP

Parcel 3T
Herman A & Verna Noffke

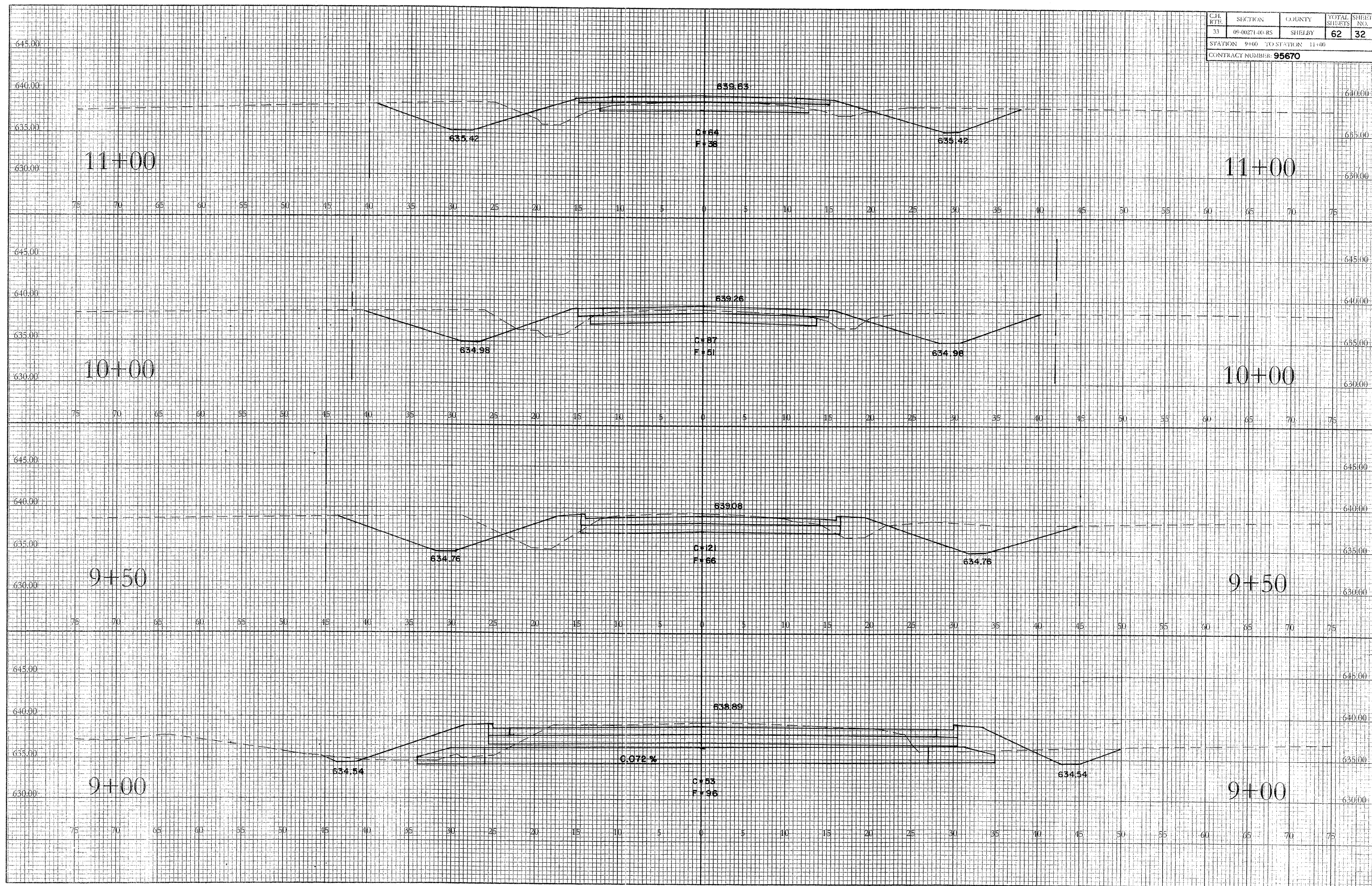
GRADING AND SHAPING DITCH, SPECIAL = 1,383ft

Parcel 14T
Sherry L. Yekey

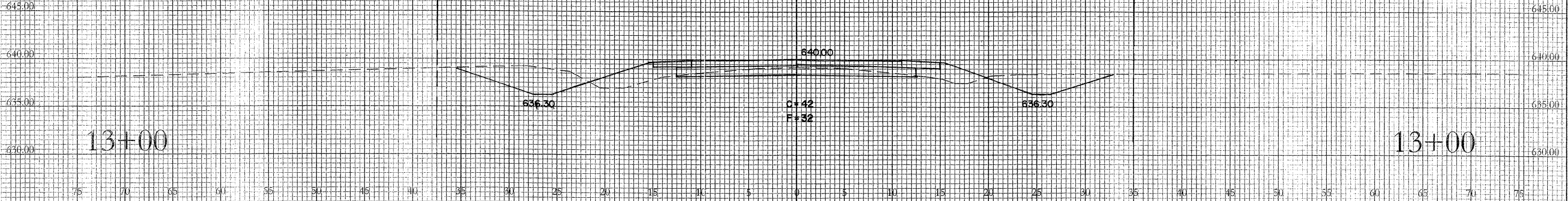
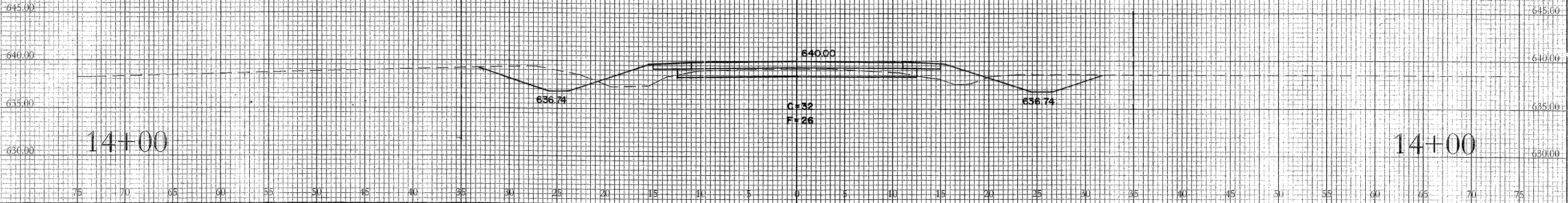
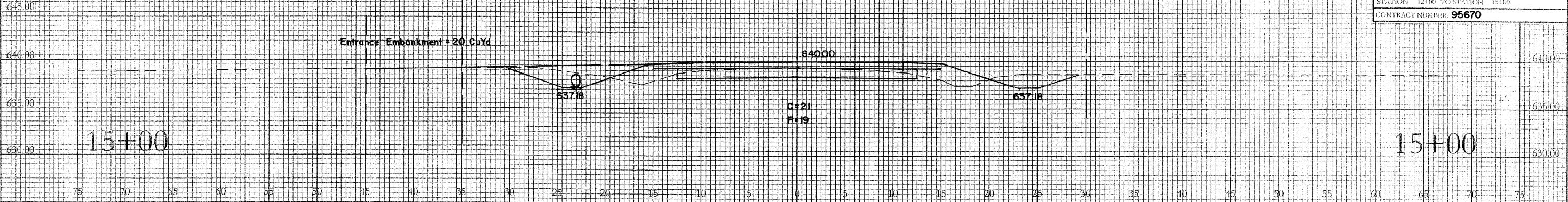


End Grading and Shaping 14+00

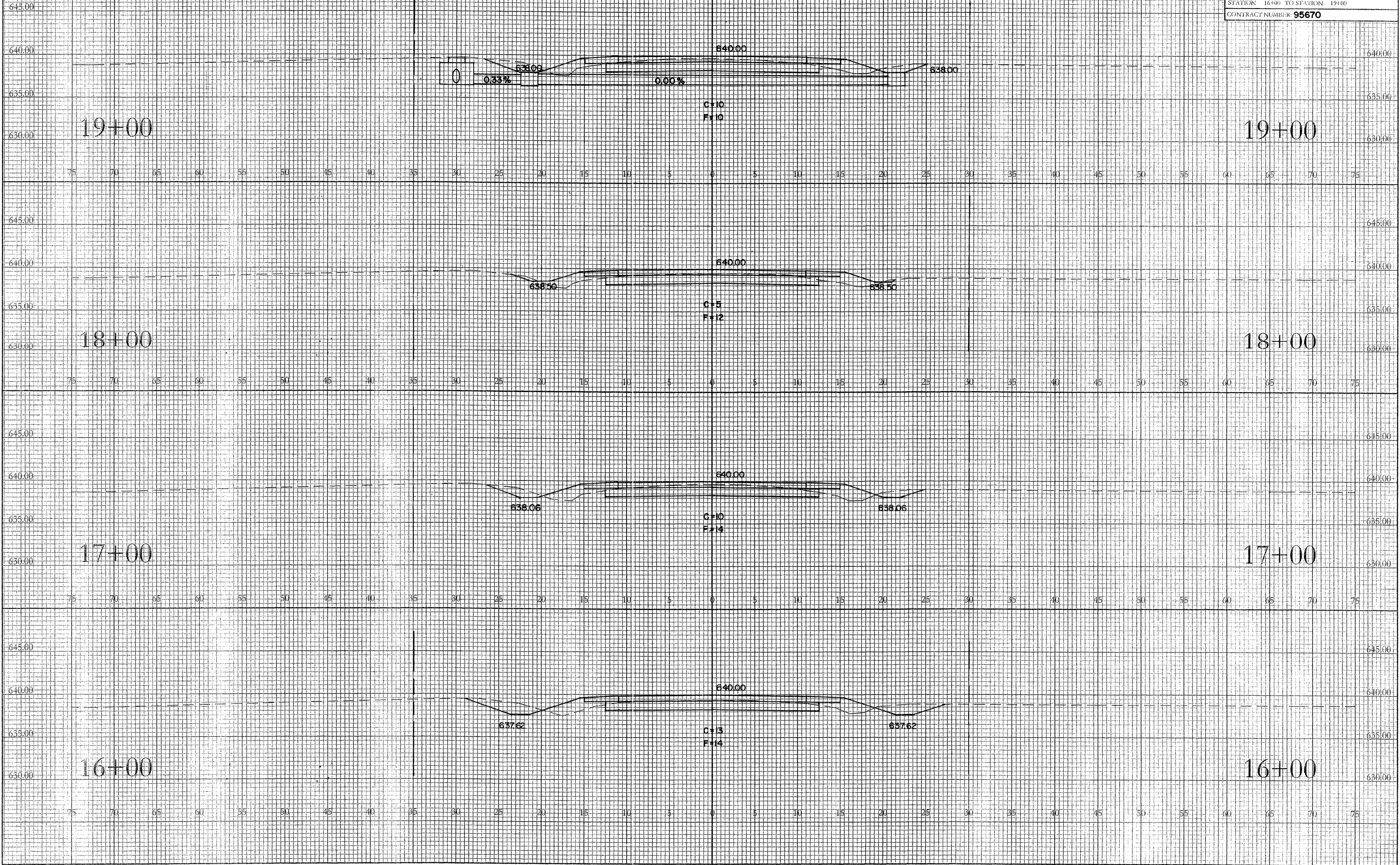
CH. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	32
STATION 9+00 TO STATION 11+00				
CONTRACT NUMBER 95670				



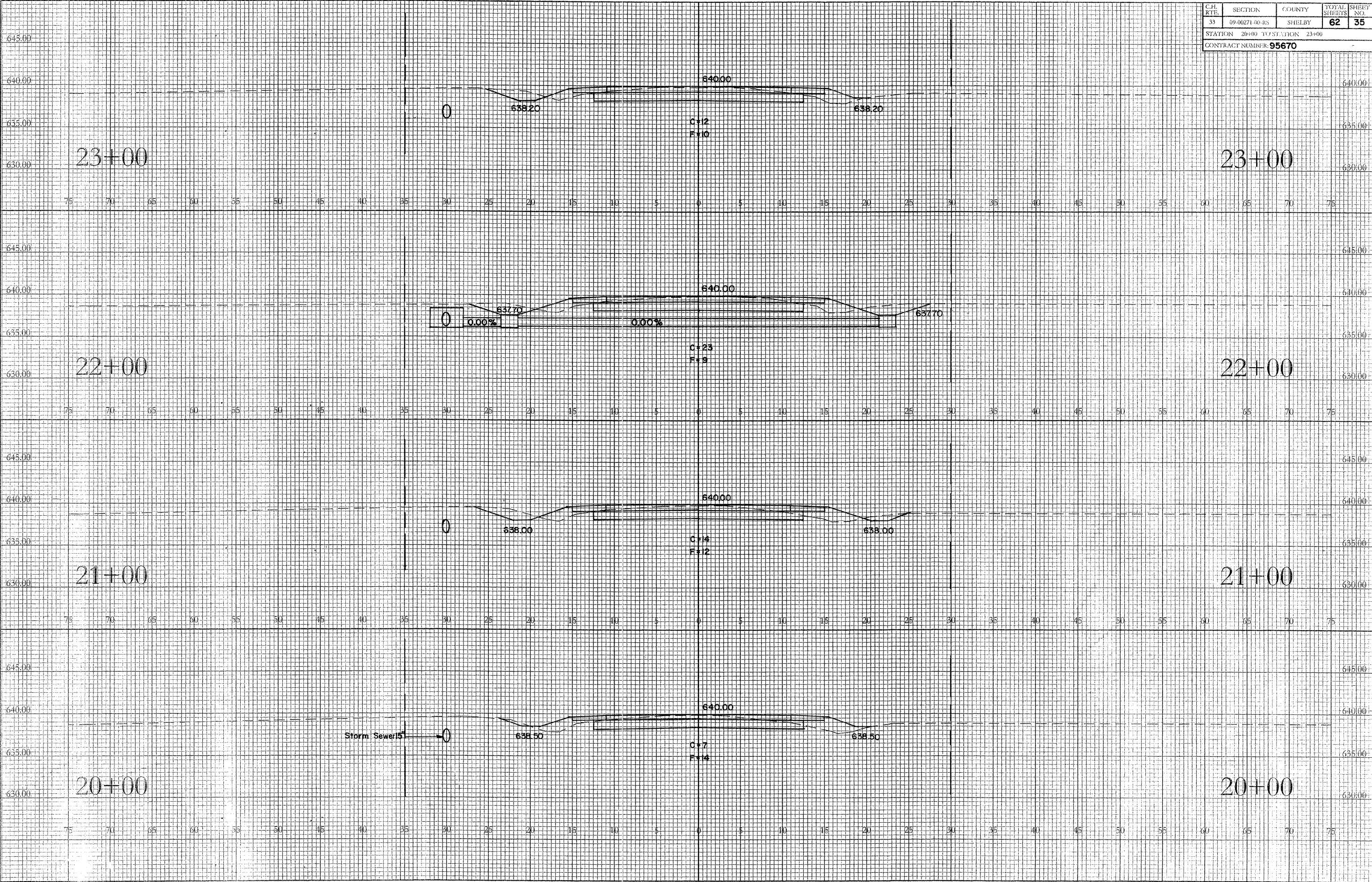
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271 60-RS	SHUCLBY	62	33
STATION 12+00 TO STATION 15+00				
CONTRACT NUMBER: 95670				



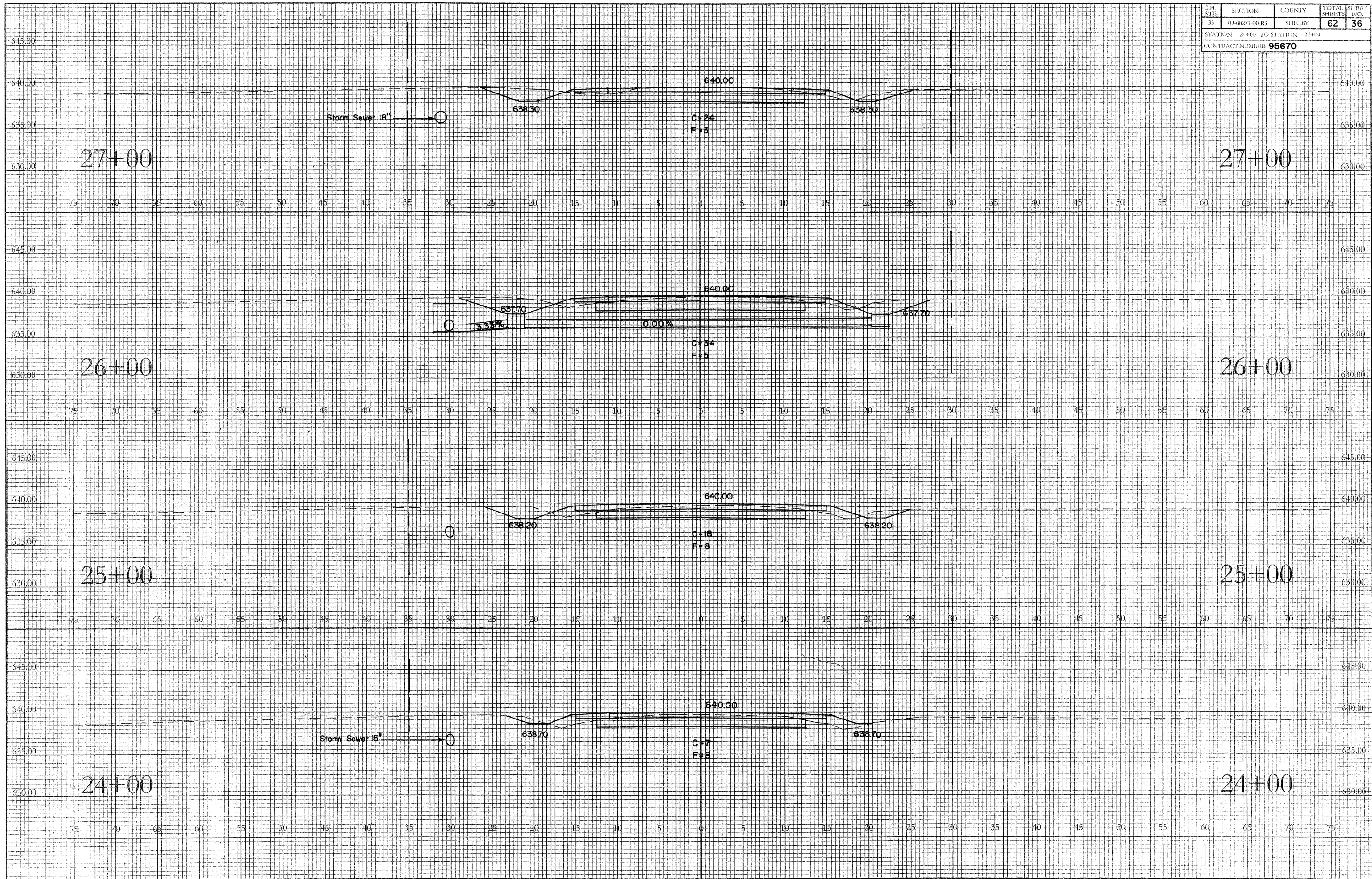
C.H. RTU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271.00-RS	SHELBY	62	34
STATION 16+00 TO STATION 19+00				
CONTRACT NUMBER 95670				



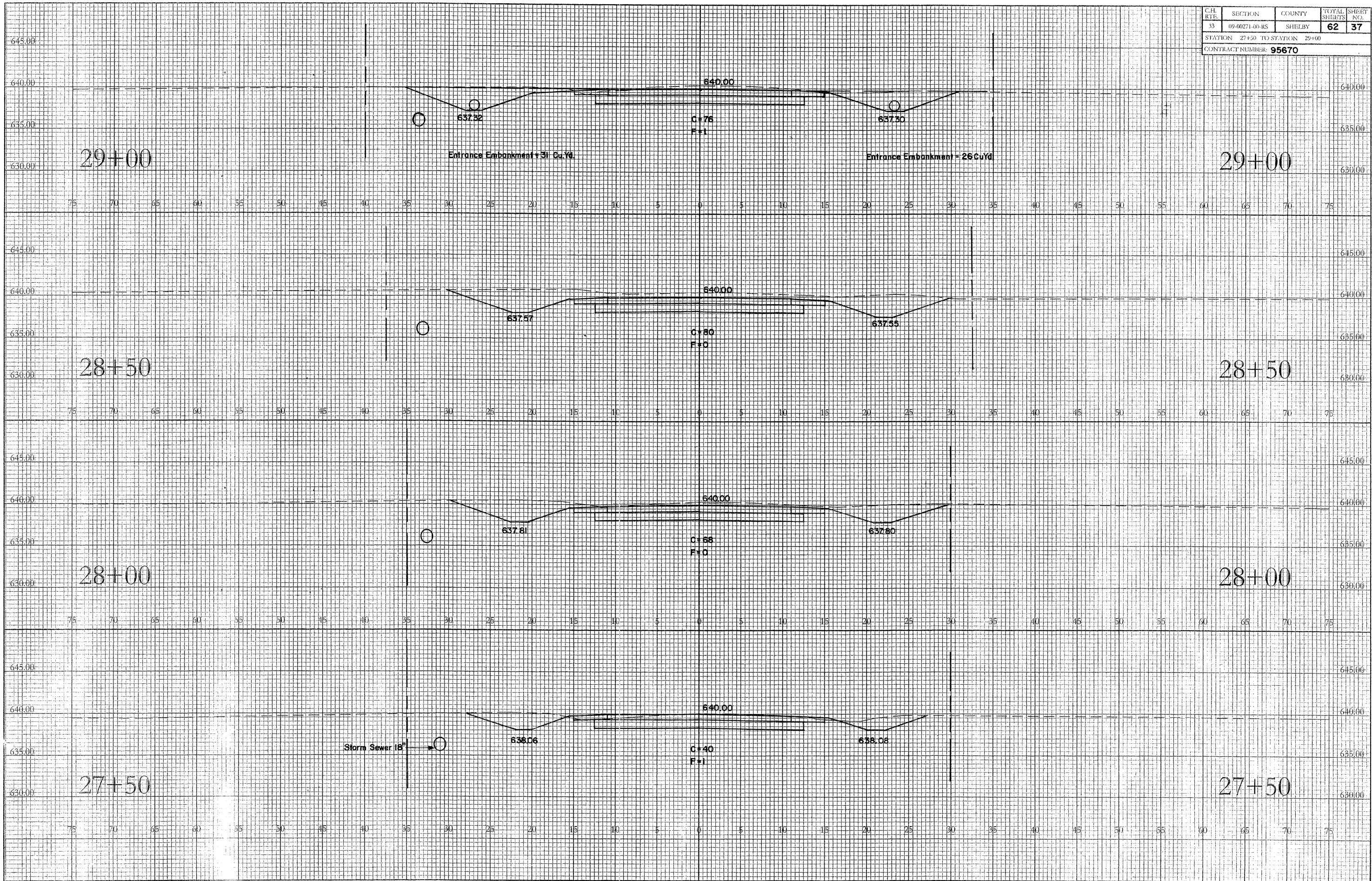
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	35
STATION 20+00 TO STATION 23+00				
CONTRACT NUMBER: 95670				



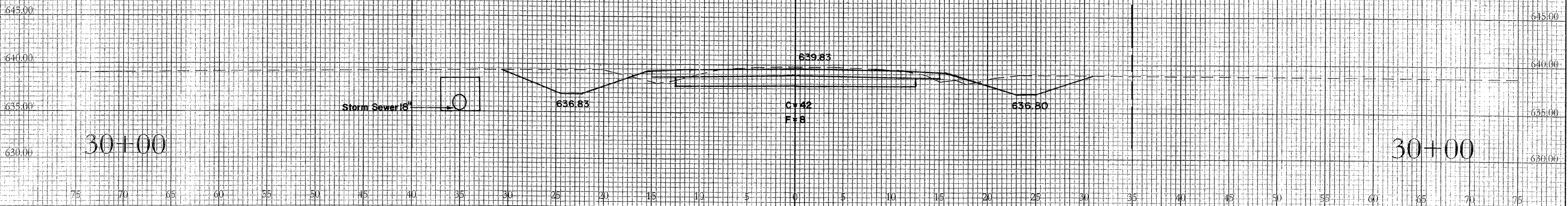
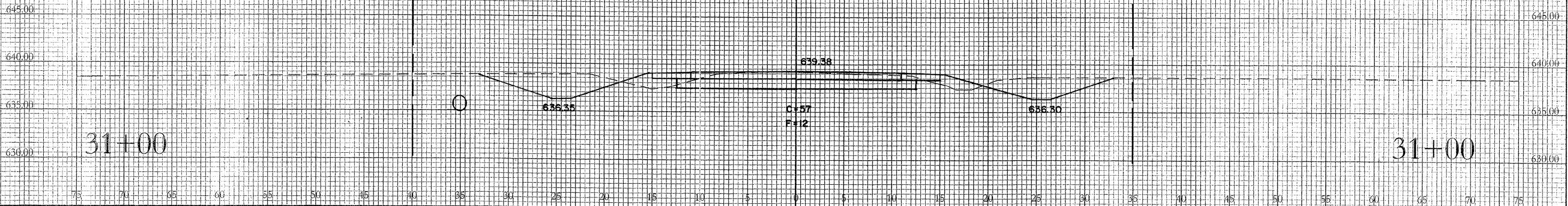
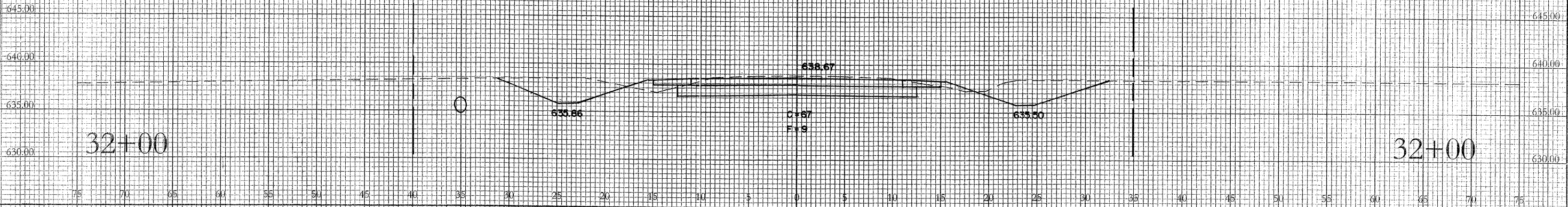
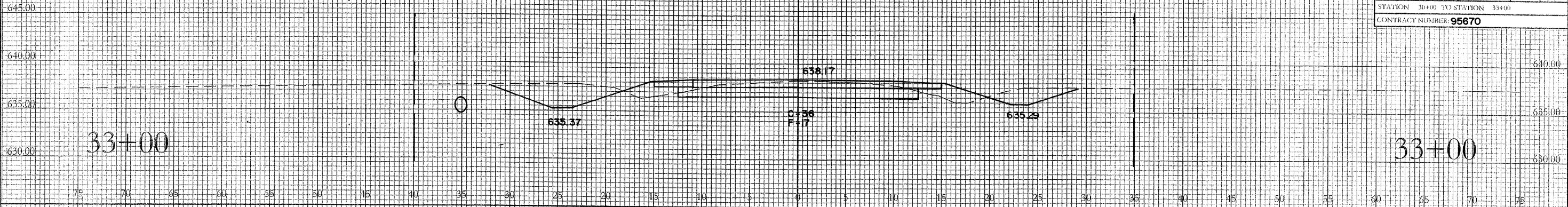
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	36
STATION 24+00 TO STATION 27+00				
CONTRACT NUMBER: 95670				



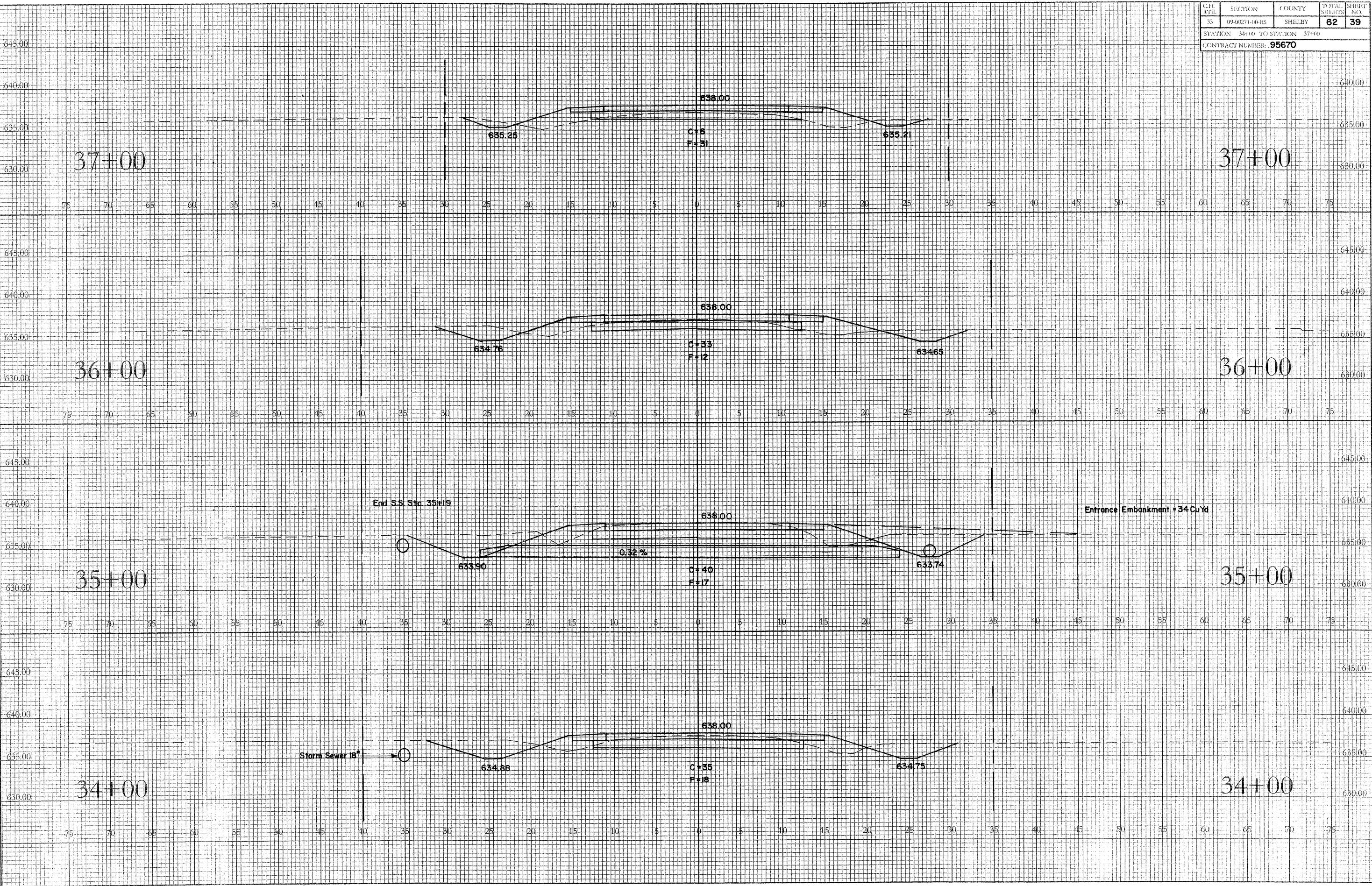
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	37
STATION 27+50 TO STATION 29+00				
CONTRACT NUMBER: 95670				



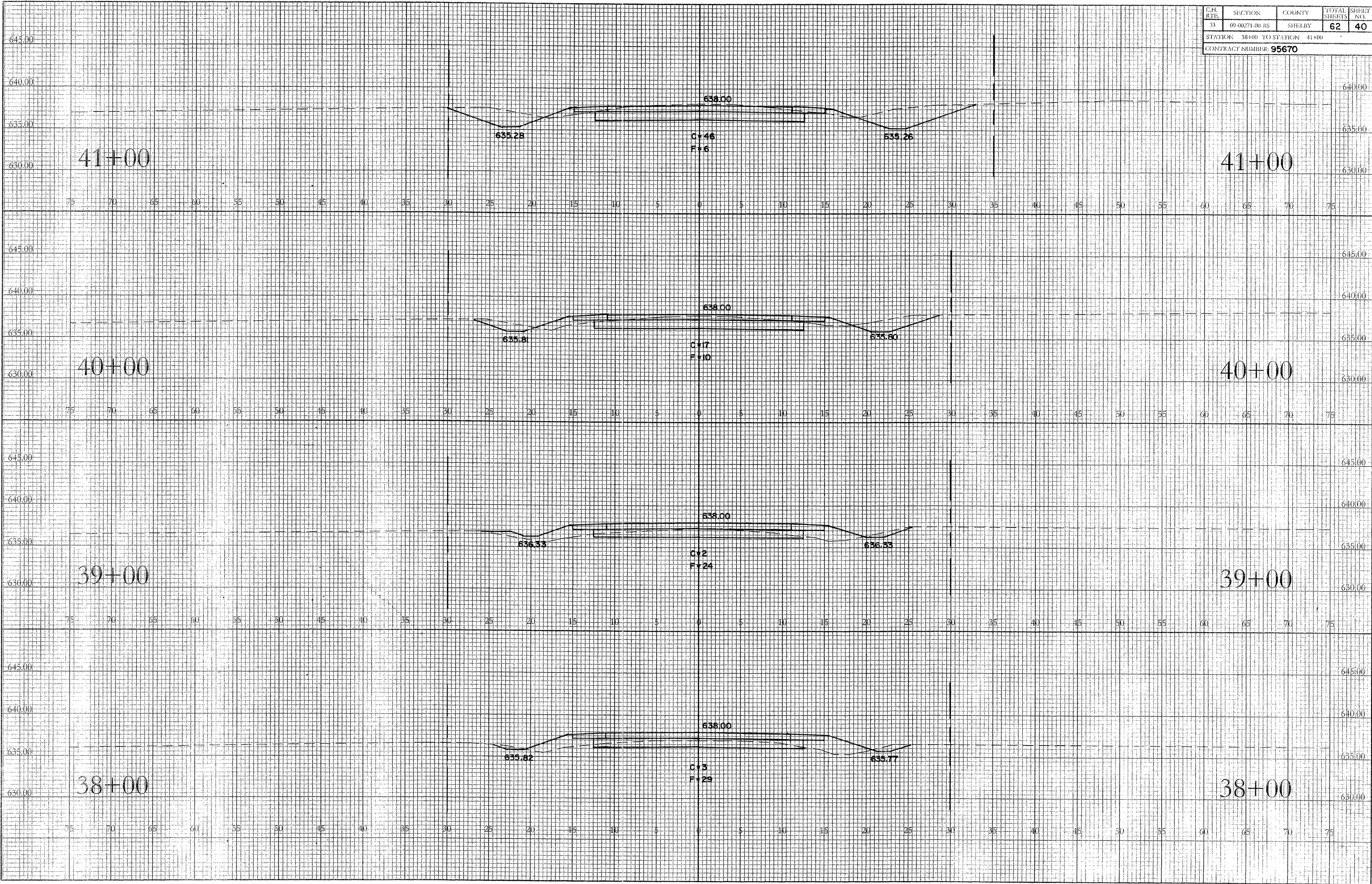
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	38
STATION 30+00 TO STATION 33+00				
CONTRACT NUMBER 95670				



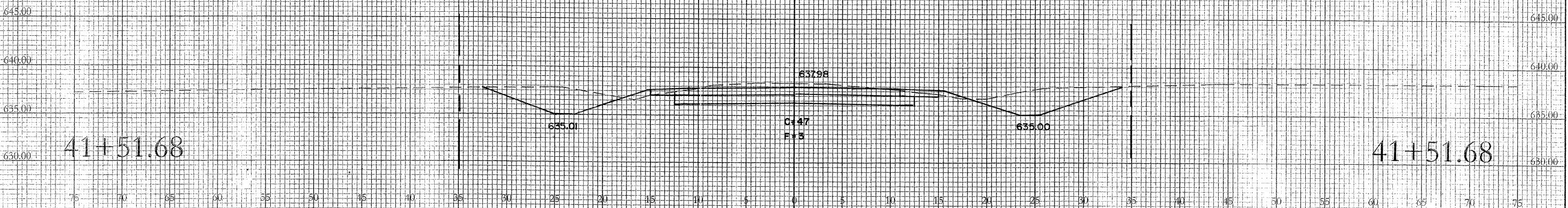
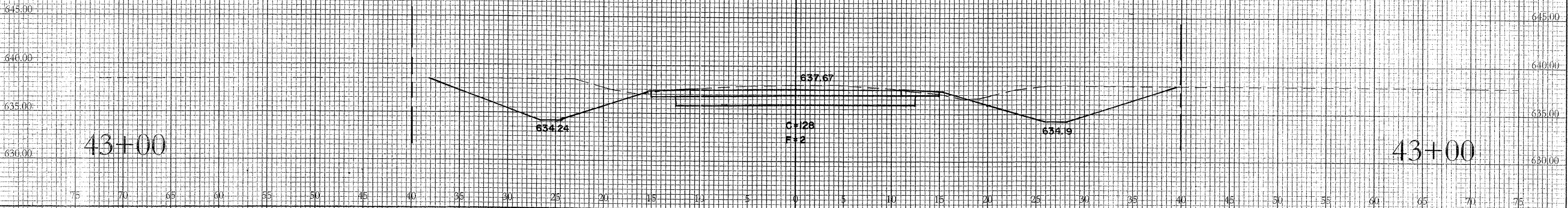
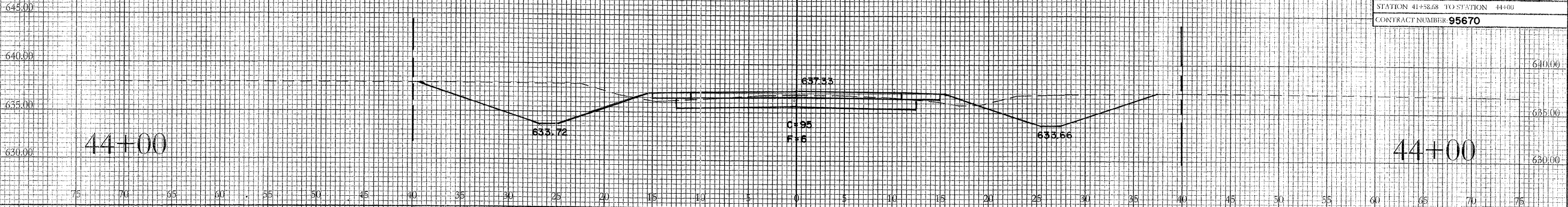
CH. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	39
STATION 34+00 TO STATION 37+00				
CONTRACT NUMBER: 95670				



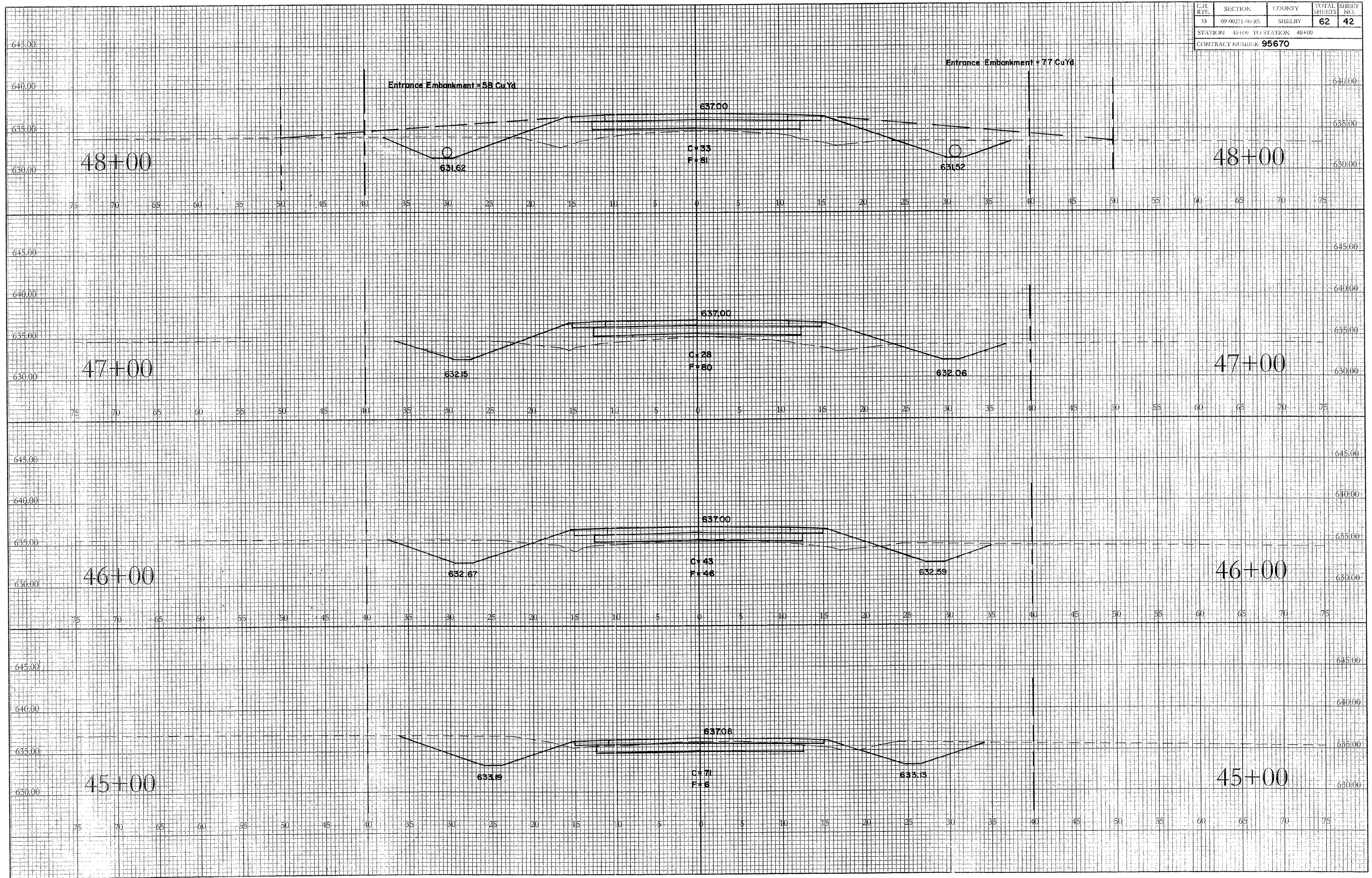
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	40
STATION 38+00 TO STATION 41+00				
CONTRACT NUMBER 95670				



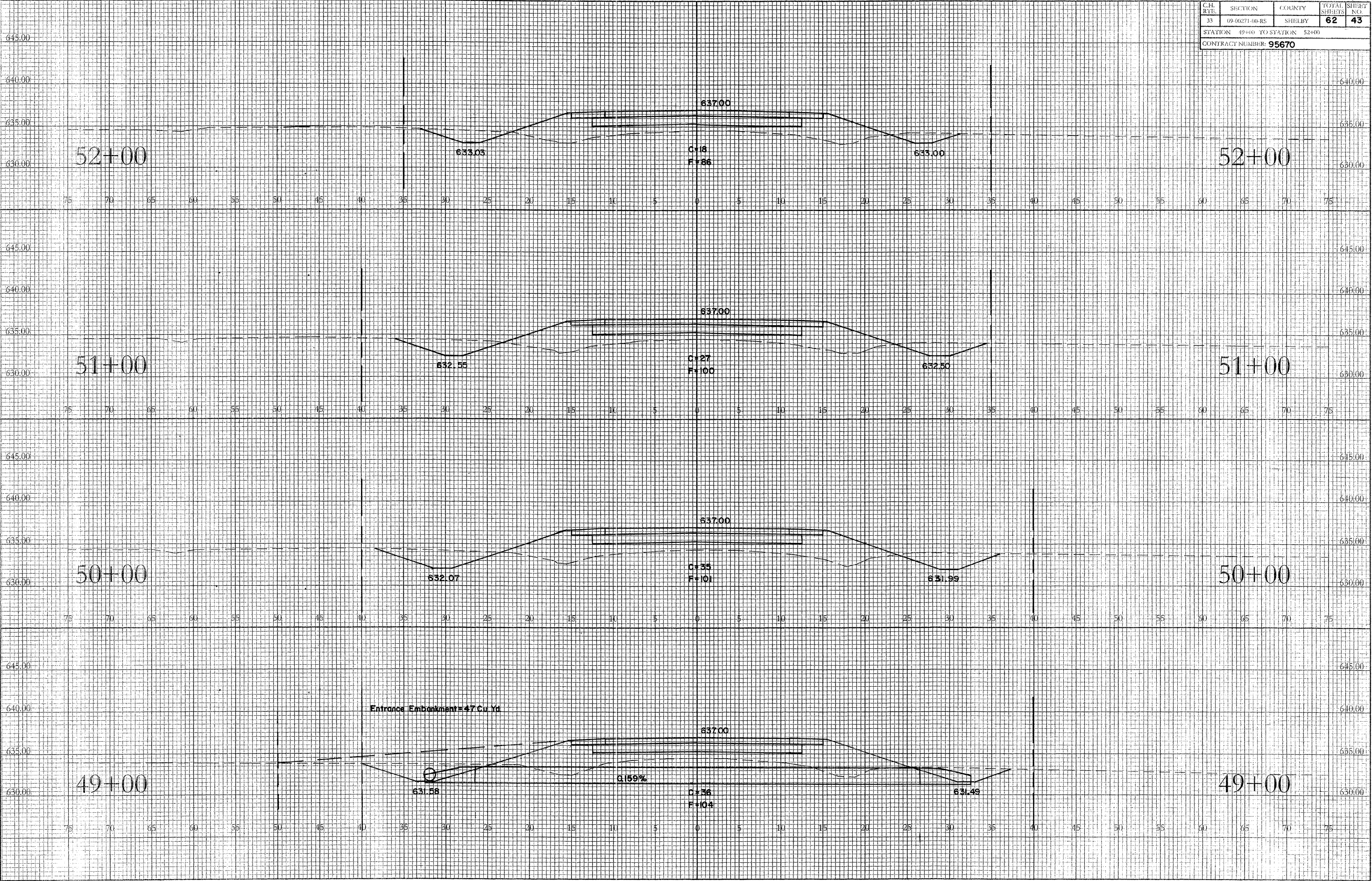
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	99-00271-00-RS	SHELBY	62	41
STATION 41+51.68 TO STATION 44+00				
CONTRACT NUMBER 95670				



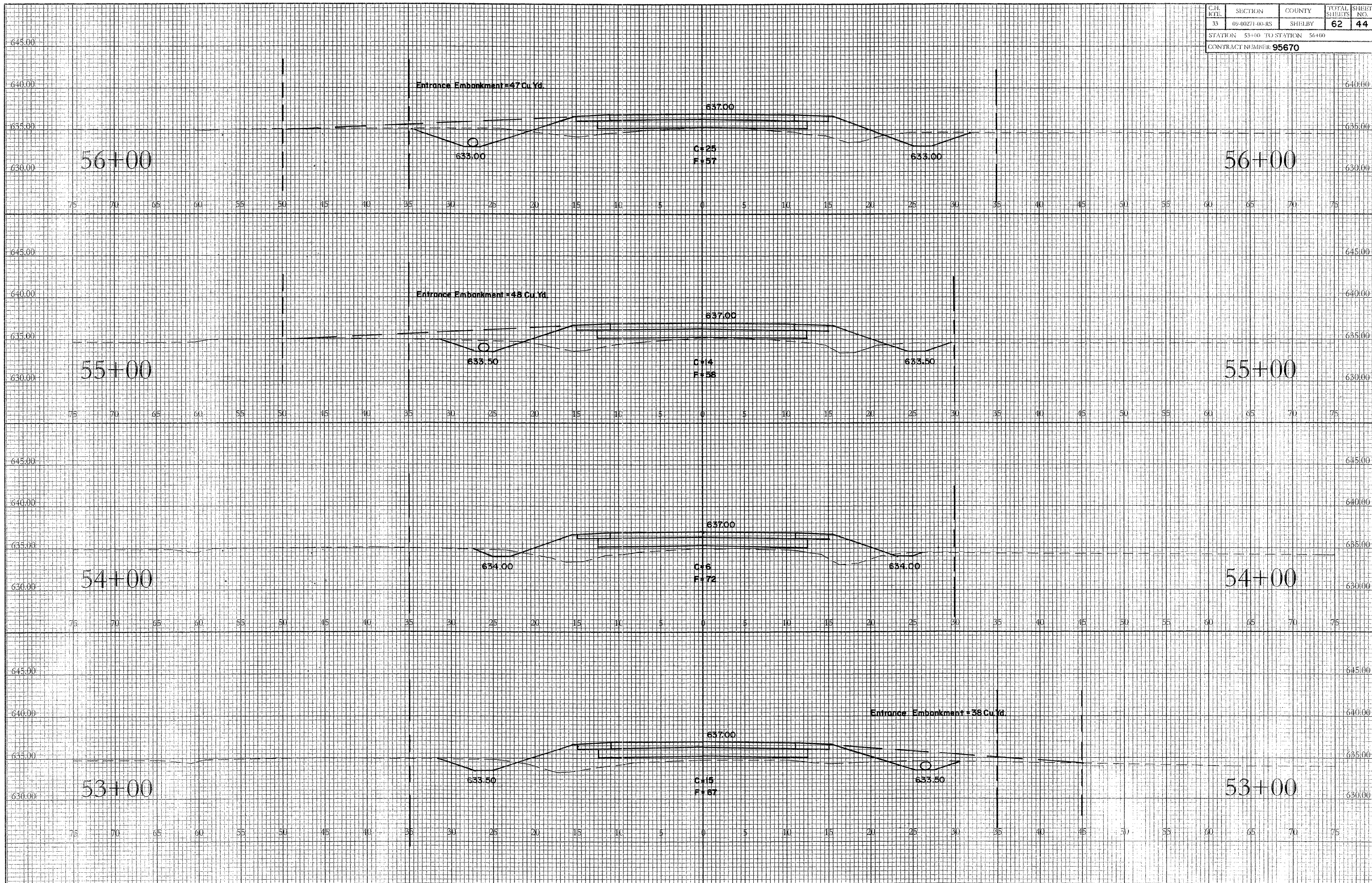
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271+00-RS	SHELBY	62	42
STATION 45+00 TO STATION 48+00				
CONTRACT NUMBER 95670				



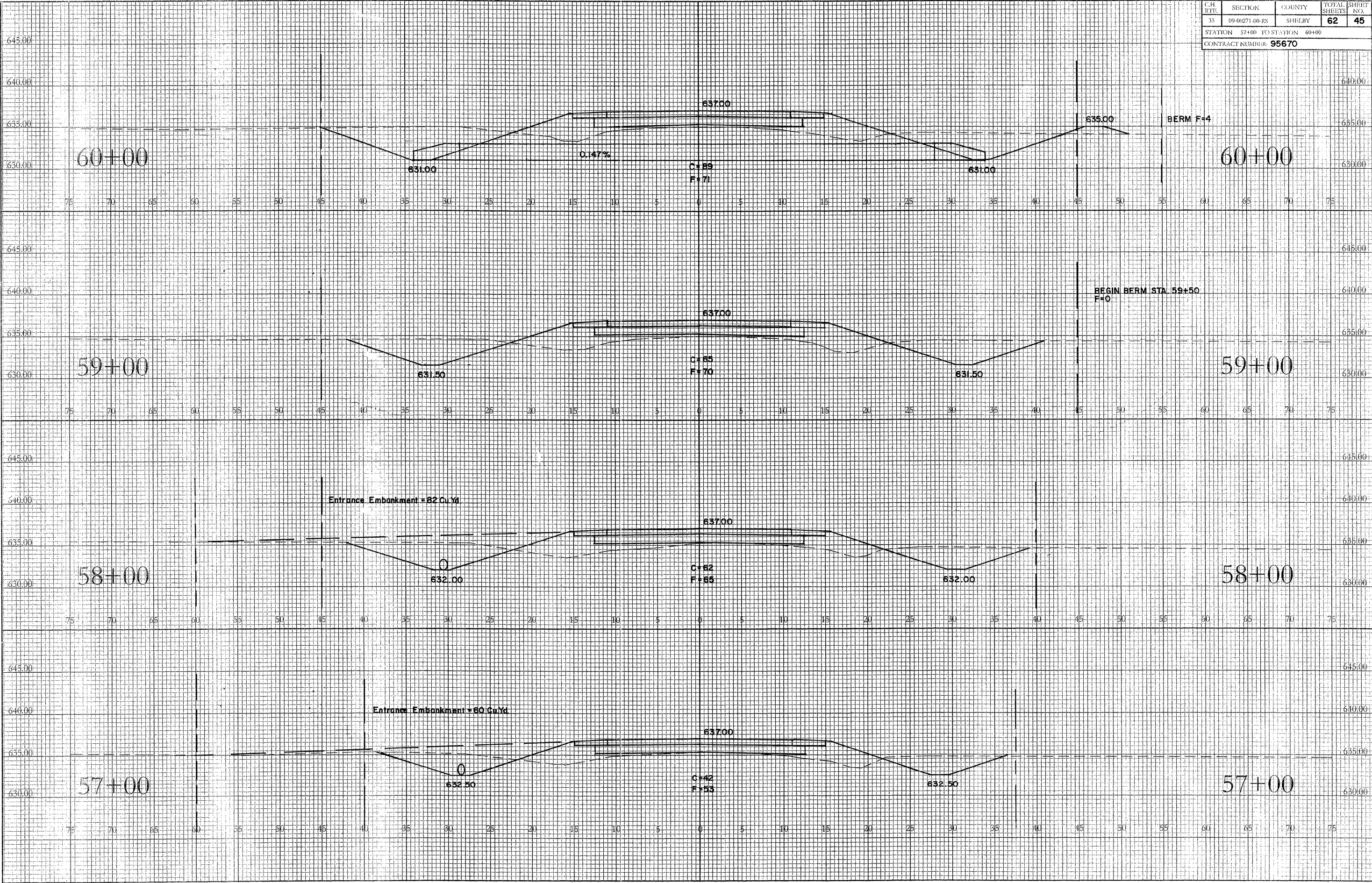
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-R5	SHELBY	62	43
STATION 49+00 TO STATION 52+00				
CONTRACT NUMBER: 95670				



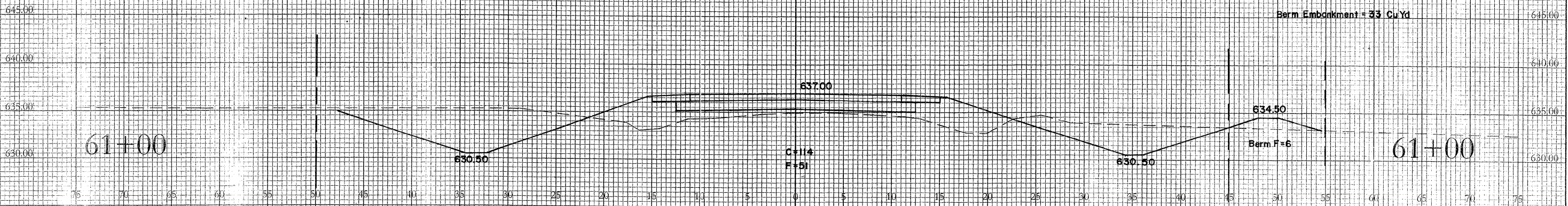
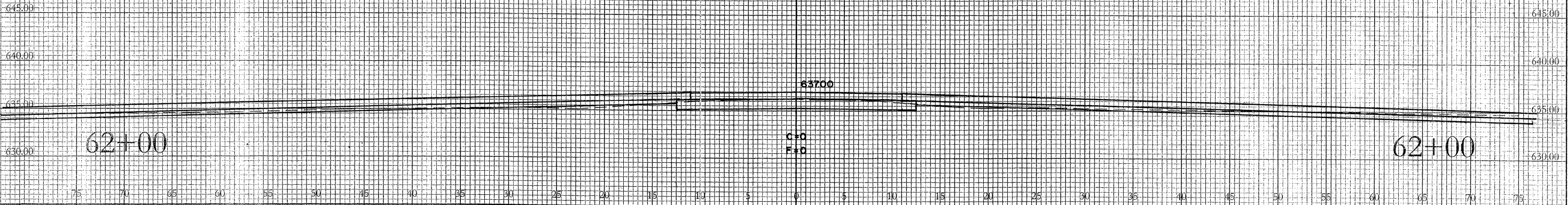
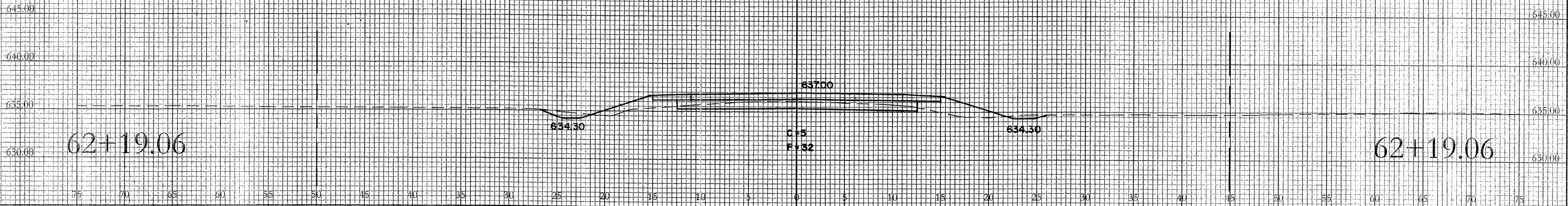
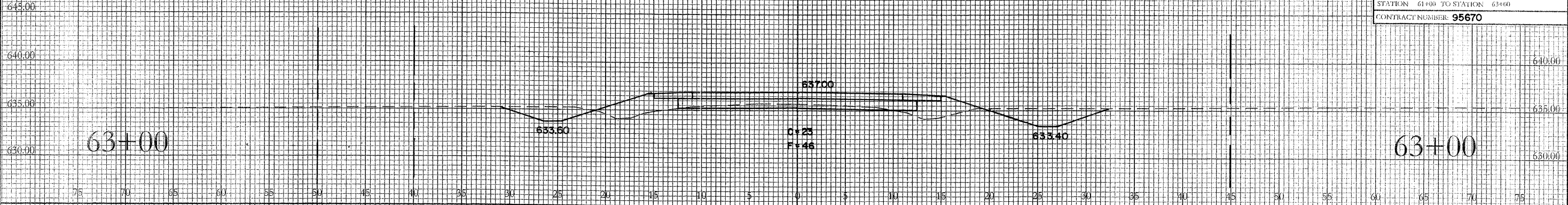
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	44
STATION 53+00 TO STATION 56+00				
CONTRACT NUMBER 95670				



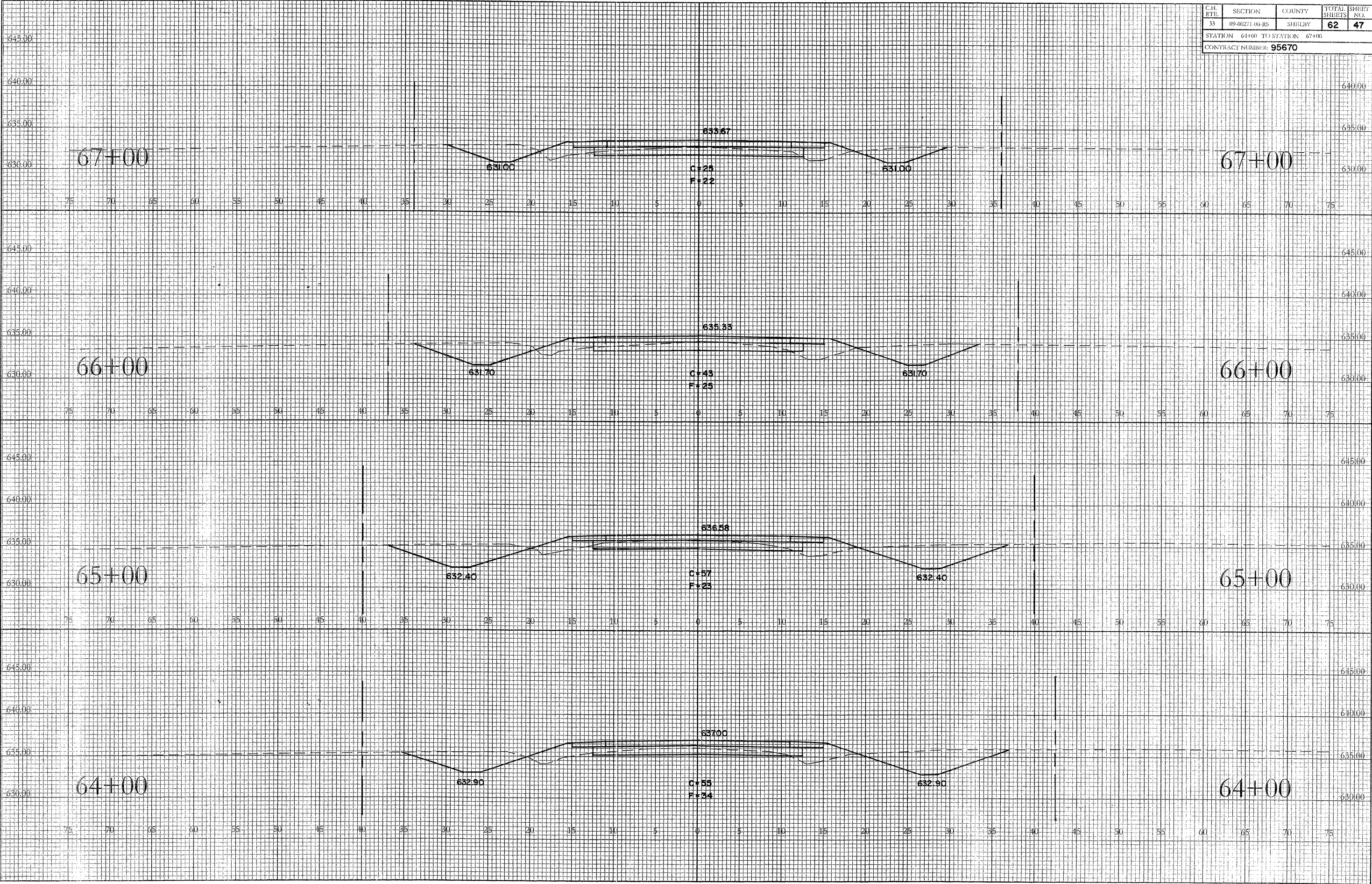
C.H. RTU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271.00-RS	SHREVEPORT	62	45
STATION 57+00 TO STATION 60+00				
CONTRACT NUMBER 95670				



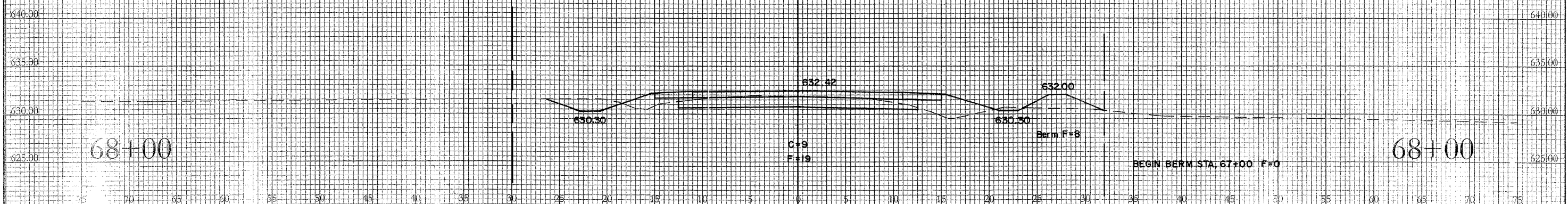
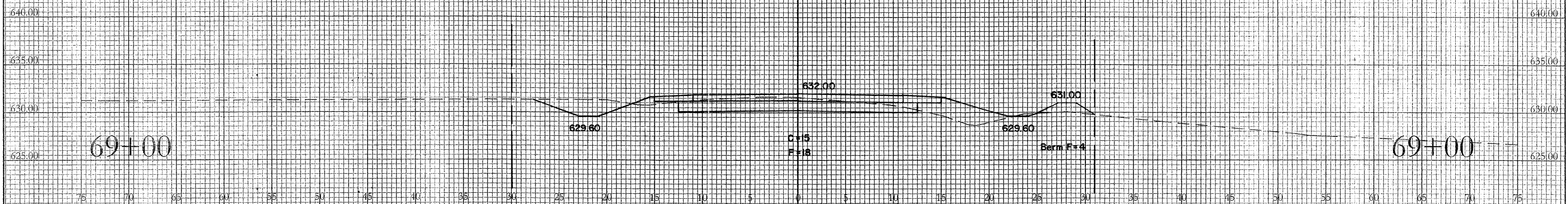
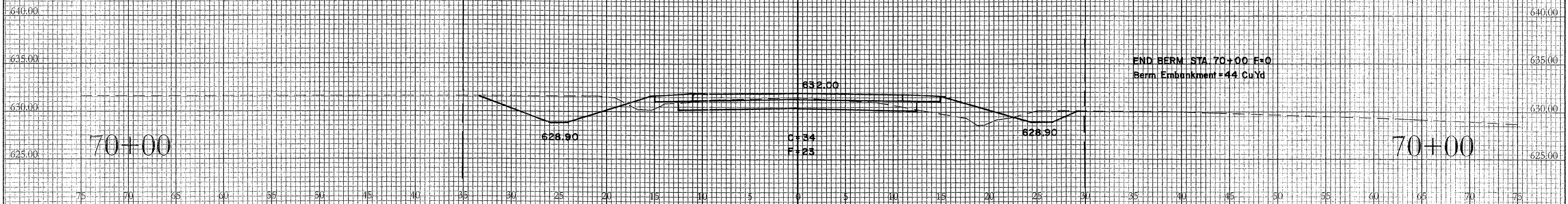
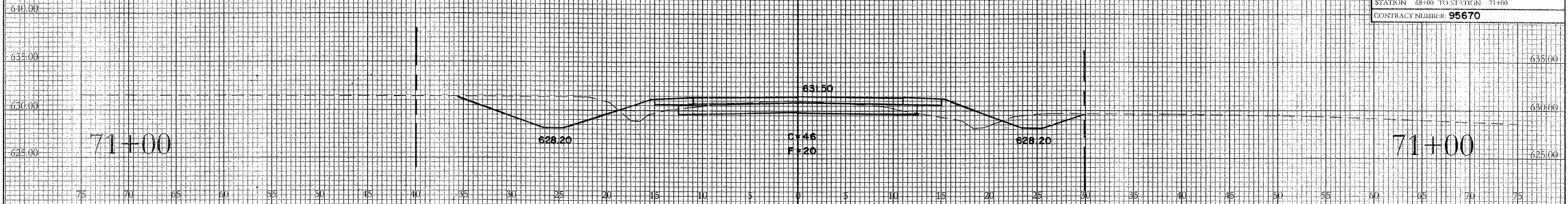
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	46
STATION 61+00 TO STATION 63+00				
CONTRACT NUMBER: 95670				



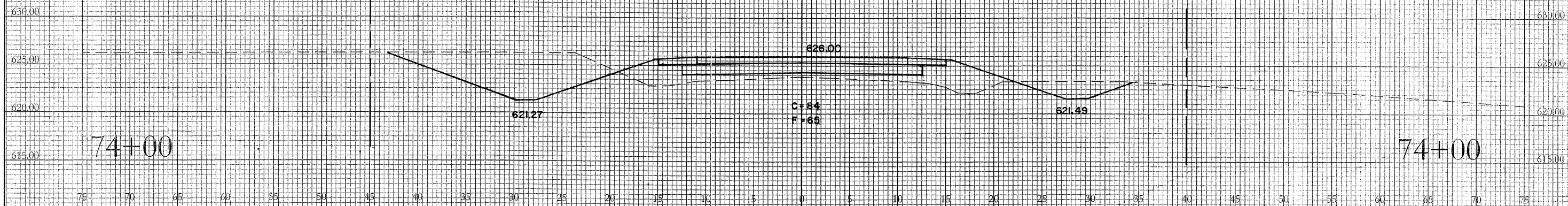
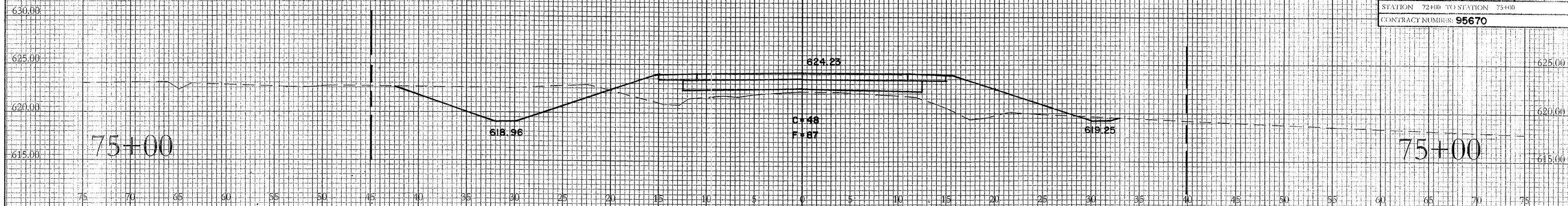
C.H. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	47
STATION 64+00 TO STATION 67+00				
CONTRACT NUMBER: 95670				



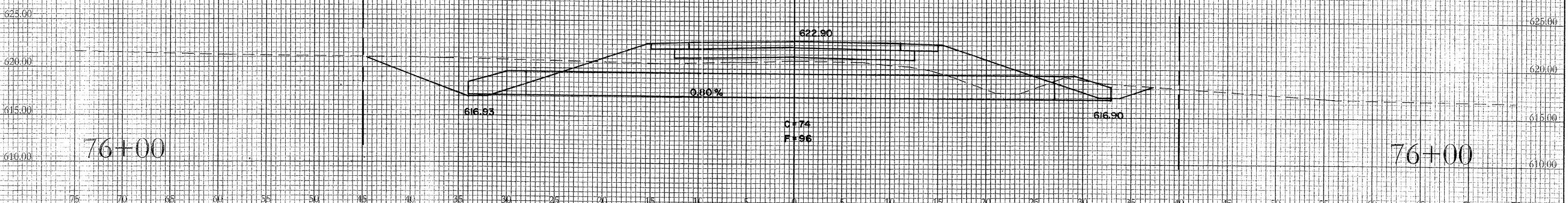
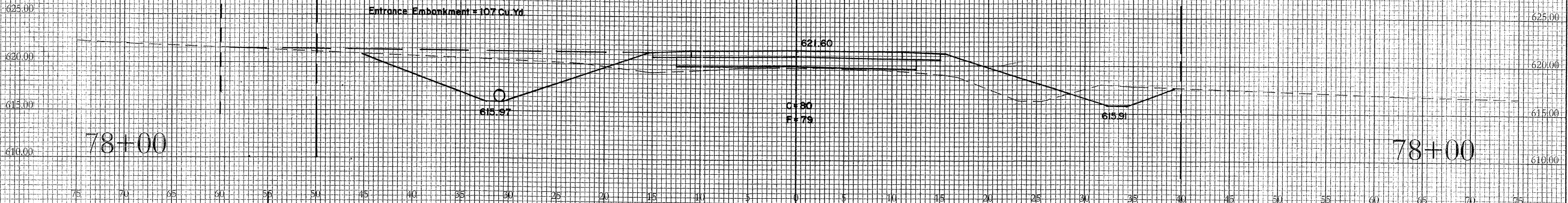
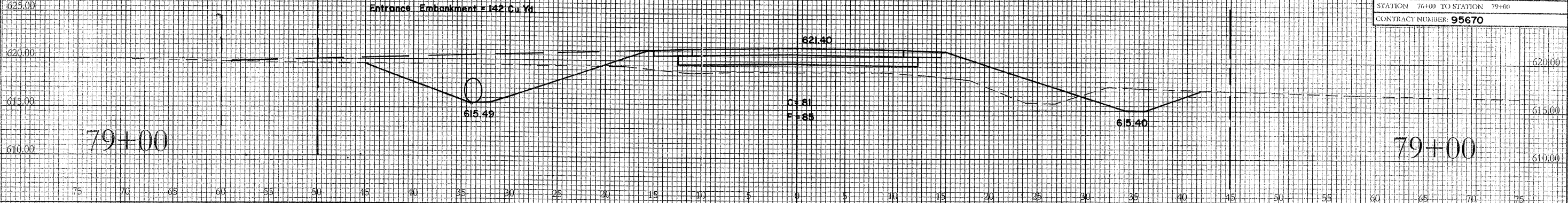
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-03-RS	SHELBY	62	48
STATION 68+00 TO STATION 71+00				
CONTRACT NUMBER 95670				



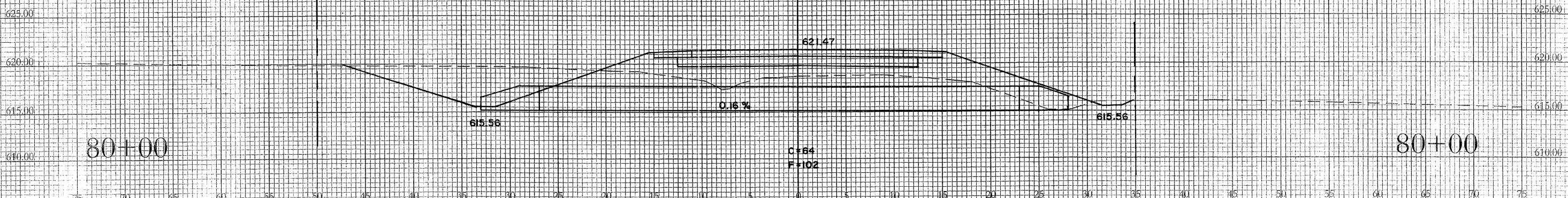
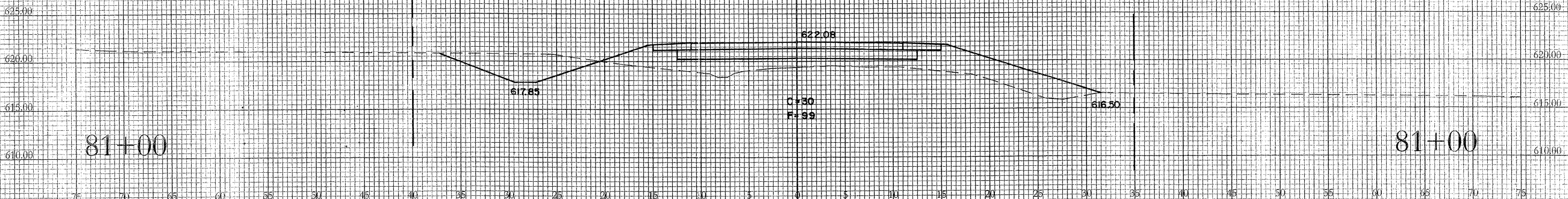
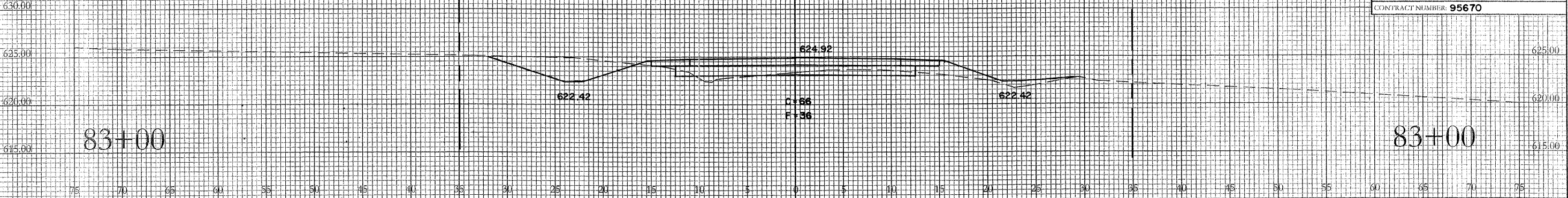
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHRLEY	62	49
STATION 72+00 TO STATION 75+00				
CONTRACT NUMBER 95670				



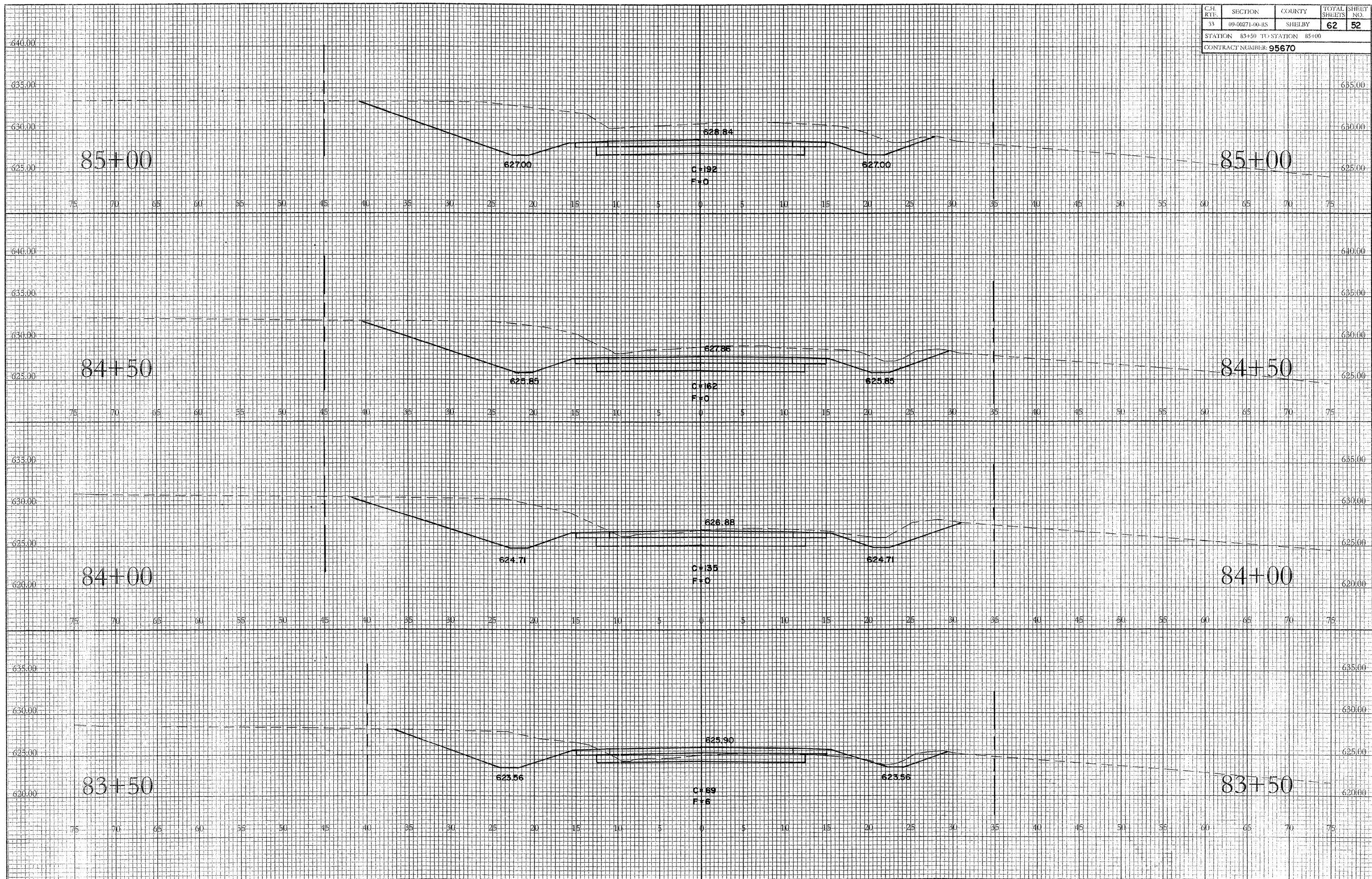
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	50
STATION 76+00 TO STATION 79+00				
CONTRACT NUMBER: 95670				



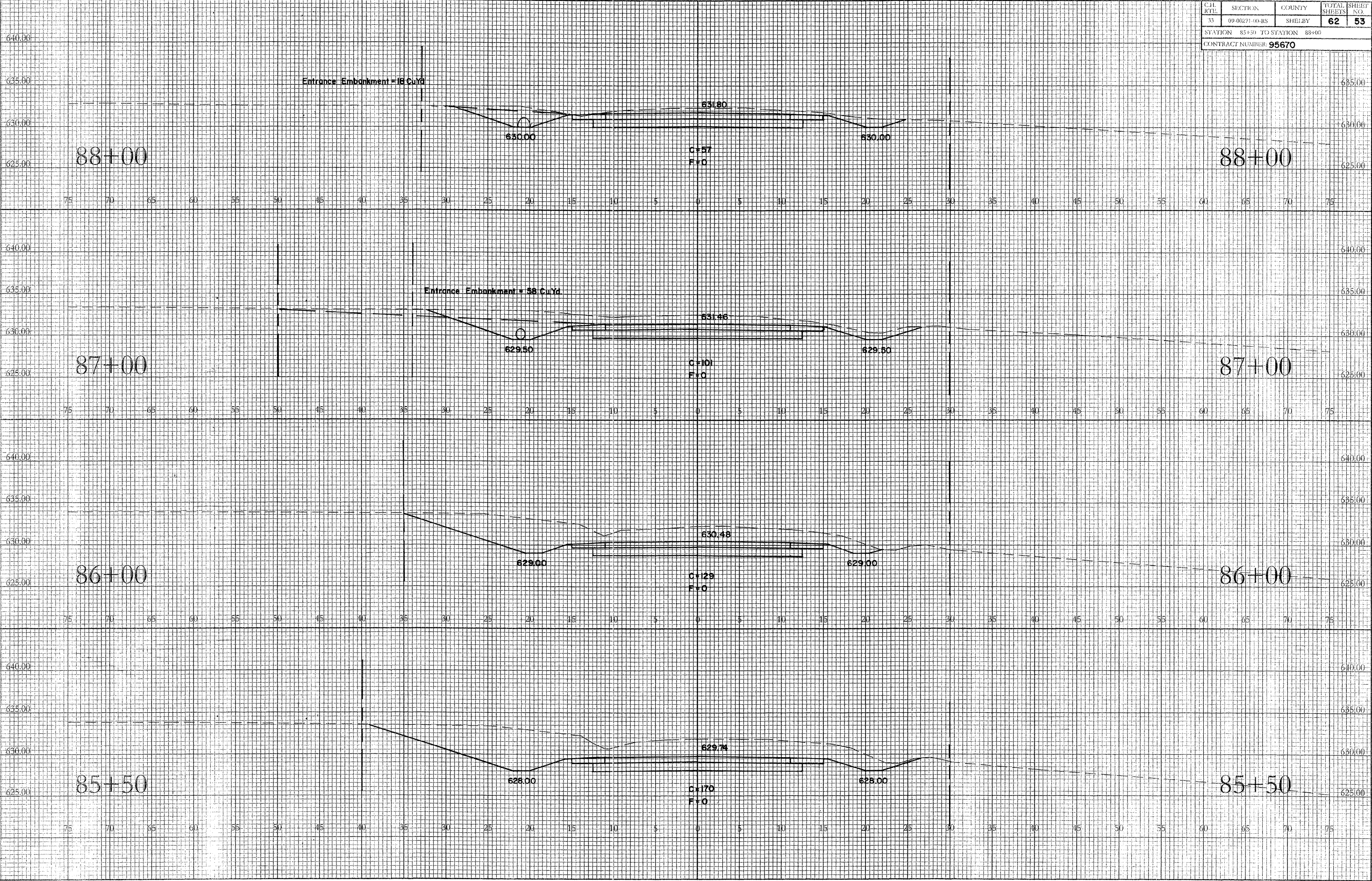
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-R5	SHELBY	62	51
STATION 80+00 TO STATION 83+00				
CONTRACT NUMBER: 95670				



C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	52
STATION 83+50 TO STATION 85+00				
CONTRACT NUMBER: 95670				



CAL. RTU.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	53
STATION 85+50 TO STATION 88+00				
CONTRACT NUMBER: 95670				



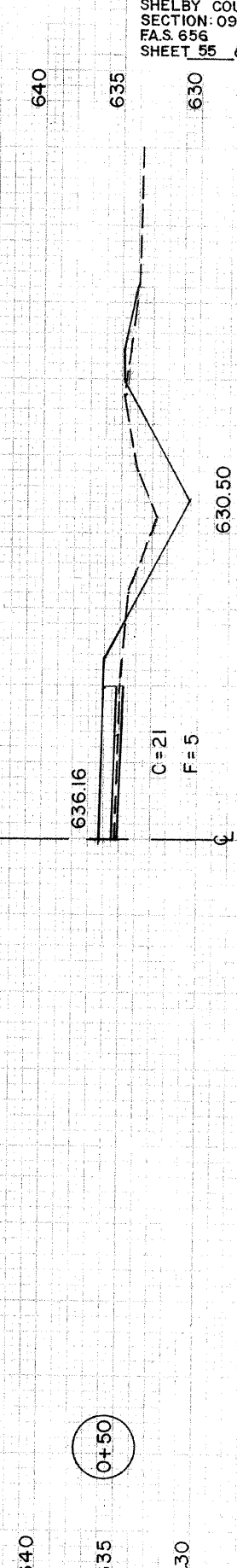
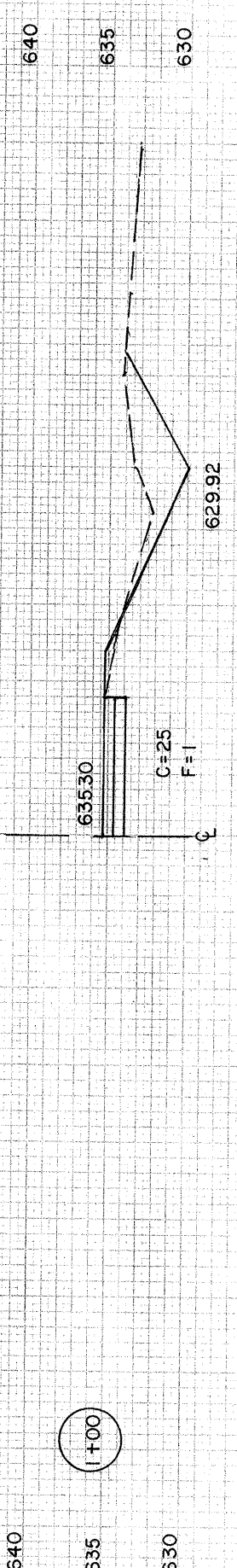
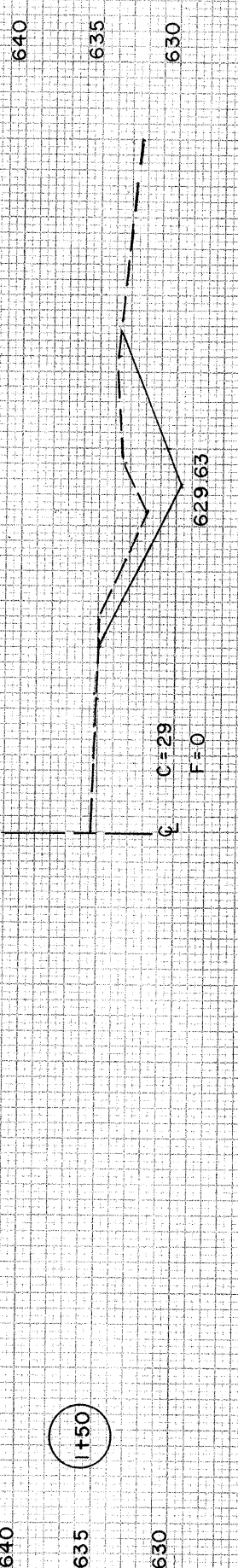
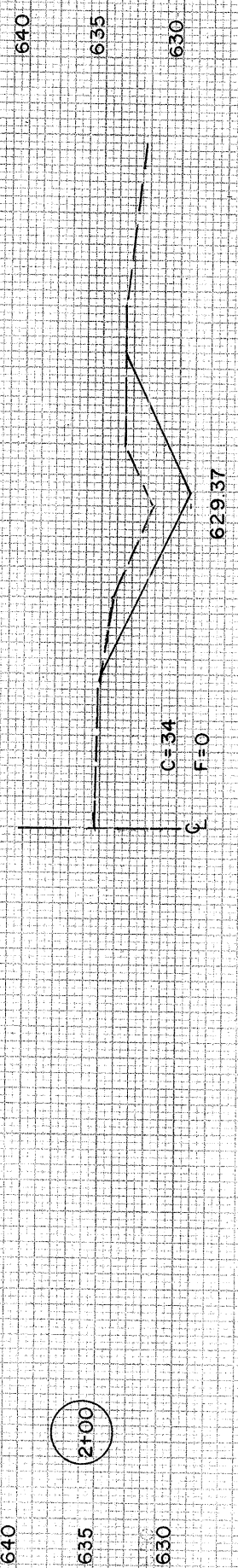
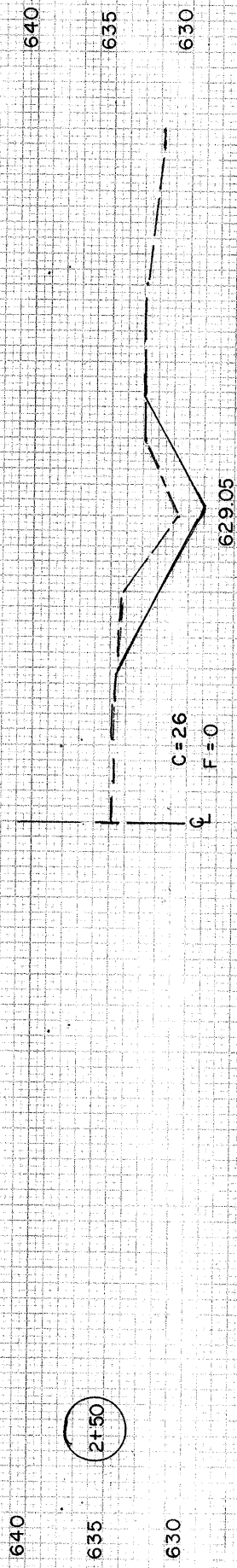
C.H. Rte.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	09-00271-00-RS	SHELBY	62	54

STATION 89+00 TO STATION 91+00
CONTRACT NUMBER: **95670**

The figure displays three cross-sections of a road project, labeled 91+00, 90+00, and 89+05.01. Each cross-section is plotted on a grid with elevations from 625.00 to 640.00 feet and stationing from 75 to 75 feet on either side of the centerline. The centerline is marked with a dashed line. The existing ground profile is shown as a solid line. The proposed pavement structure is shown as a shaded area. The width of the pavement is indicated by the 'C' value (e.g., C+21, C+23). The finish elevation is indicated by the 'F' value (e.g., F+0, F+5). The station 90+00 cross-section includes a note 'End PCC Pavement Sta. 90+00'.

DESIGNED BY: J. L. HARRIS
CHECKED BY: J. L. HARRIS
DATE: 10/1/55
PROJECT: 09-00271-00-RS
SHEET 55 OF 62 SHEETS

DESIGNED BY: J. L. HARRIS
CHECKED BY: J. L. HARRIS
DATE: 10/1/55
PROJECT: 09-00271-00-RS
SHEET 55 OF 62 SHEETS



SIDEROAD STA. 61+87

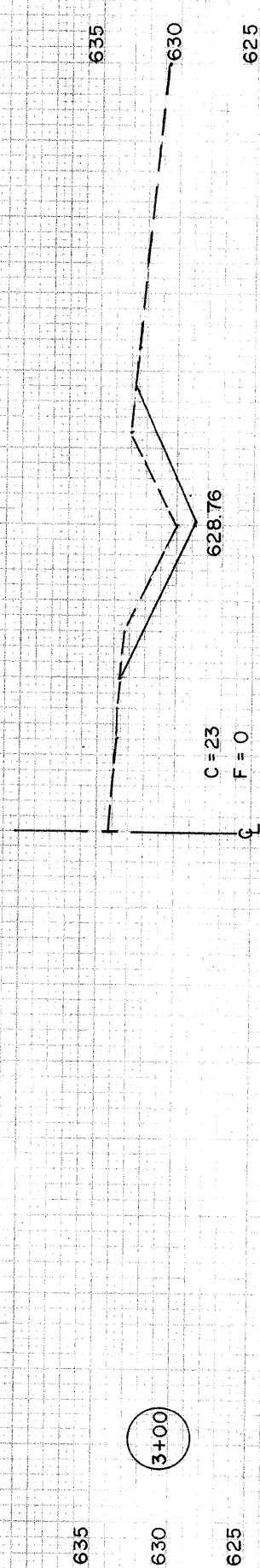
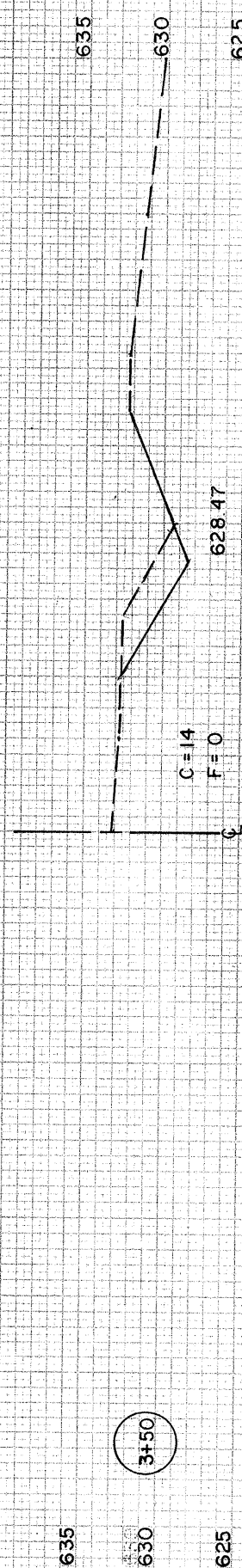
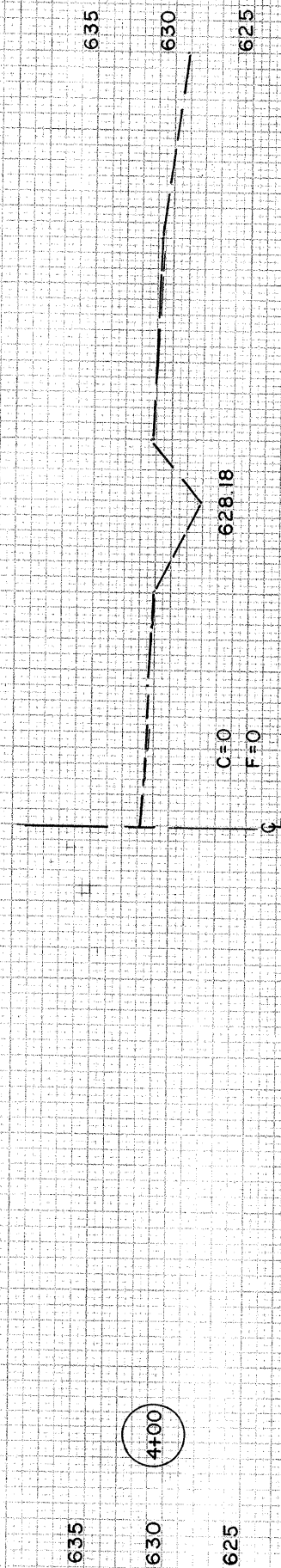
SHELBY COUNTY
SECTION 09-00271-00-RS
F.A.S. 656
SHEET 55 OF 62 SHEETS
CONTRACT NO. 95670

PROJECT: SH-00271-00-RS
SECTION: 09-00271-00-RS
SHEET: 56 OF 62 SHEETS

DATE: 10/1/09
BY: J. L. HARRIS
CHECKED: J. L. HARRIS

SHELBY COUNTY
SECTION: 09-00271-00-RS
F.A.S. 656
SHEET 56 OF 62 SHEETS

CONTRACT NO. 95670



SIDEROAD STA. 61+87

BRIDGE WEARING SURFACE REMOVAL SCHEDULE

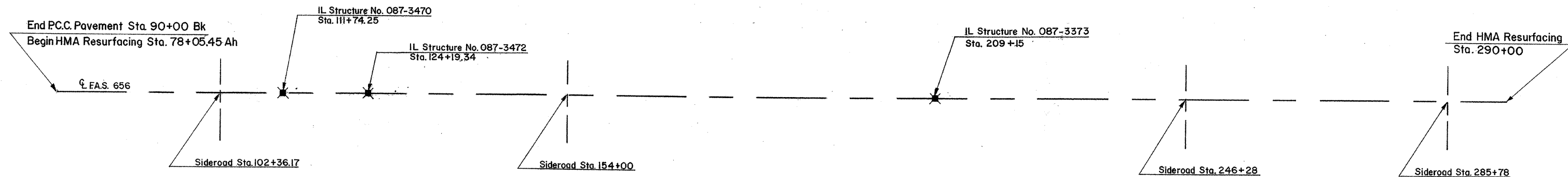
LOCATION	QUANTITY
208+42 15' LT & RT TO 209+88 15' LT & RT	487 SQ. YDS.

CURVE 1 DATA
Δ=2°-23'-40"
D=0°-35'-55"
T=200.00'
L=399.94'
R=9,570.06'
E=2.09'
P.C. STA. 183+00
P.I. STA. 185+00
P.T. STA. 186+99.94
S.E.=NORMAL CROWN

CURVE 2 DATA
Δ=2°-16'-40"
D=0°-34'-10"
T=200.00'
L=399.95'
R=10,060.37'
E=1.99'
P.C. STA. 188+99.94
P.I. STA. 190+99.94
P.T. STA. 192+99.89
S.E.=NORMAL CROWN

CURVE 3 DATA
Δ=3°-20'-00"
D=0°-29'-52"
T=335.00'
L=669.81'
R=11,513.20'
E=4.87'
P.C. STA. 211+02
P.I. STA. 214+37
P.T. STA. 217+71.81
S.E.=NORMAL CROWN

CURVE 4 DATA
Δ=1°-28'-12"
D=0°-07'-30"
T=588.00'
L=1,175.94'
R=45,834.11'
E=3.77'
P.C. STA. 248+31.45
P.I. STA. 254+19.45
P.T. STA. 260+07.39
S.E.=NORMAL CROWN



RESURFACING AREA

F.A.S. 656 (NEOGA ROAD) (CH-33)

FUNCTIONAL CLASSIFICATION: RURAL MAJOR COLLECTOR
CLASS III ROAD

DESIGN PERIOD = 20 YEARS

LOAD = 80,000 POUND ROAD

IBV = 4

DESIGN LANE DISTRIBUTION (FOR ALL VEHICLE CLASSES) = 50%

PAVEMENT DESIGN TRAFFIC (1)

CURRENT A.D.T. = 900

DESIGN YEAR = 2030

DESIGN A.D.T. = 1150

PU% = 88.7% = 1020 PASSENGER CARS
SU% = 8.7% = 100 SINGLE UNIT TRUCKS
MU% = 2.6% = 30 MULTI UNIT TRUCKS

TF = 0.23

(1) NUMBER OF VEHICLES FOR THE DESIGN YEAR WERE
PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING PAVEMENT STRUCTURE

1.5" HOT-MIX ASPHALT SURFACE COURSE, MIX "C"
2.5" HOT-MIX ASPHALT BINDER COURSE - IL 19.0
8.0" AGGREGATE BASE TYPE A
12.0" LIME STABILIZED SOIL

PAVEMENT STRUCTURE NUMBERS

TOTAL ST NUMBER = 3.10
EXISTING ST NUMBER = 2.95
ST NUMBER REQUIRED = 0.15

ST NUMBER PROVIDED = 0.60 *

* DUE TO MINIMUM LIFT THICKNESSES

PROPOSED PAVEMENT STRUCTURE

1.25" HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N-70
0.75" HMA LEVEL BINDER MACHINE METHOD N-70

MIXTURE REQUIREMENTS

LOCATION	FAS 656	FAS 656	FAS 656	FAS 656	FAS 656
MIXTURE APPLICATION	CLASS D PATCHES 8 INCH	LEVELING BINDER (MACHINE METHOD)	HOT-MIX ASPHALT SURFACE COURSE	INCIDENTAL HOT-MIX ASPHALT SURFACING	HOT-MIX ASPHALT SHOULDERS
PG GRADE	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP% (MAX)	20% (MAX)	15% (MAX)	15% (MAX)	15% (MAX)	20% (MAX)
DESIGN AIR VOIDS	4.0% AT NDESIGN = 70	4.0% AT NDESIGN = 70	4.0% AT NDESIGN = 70	4.0% AT NDESIGN = 70	4.0% AT NDESIGN = 30
MIX COMP. (GRADIATION)	IL - 19.0	IL - 9.5	IL - 9.5	IL - 9.5	IL - 19.0L
FRICTION AGGREGATE	N/A	MIXTURE C	MIXTURE C	MIXTURE C	N/A

RESURFACING DATA

SCALE:	APPROVED BY:	DRAWN BY:
DATE:	REVISION:	
		DRAWING NUMBER

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	09-00271-00-RS	SHELBY	62	58

NEOGA PROJECT
CONTRACT NO 95670

RATES OF APPLICATIONS

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES.

THESE RATES MAY BE ADJUSTED BY THE ENGINEER IN THE FIELD.

BITUMINOUS MATERIALS (PRIME COAT) = 0.10 GAL/SQ.YD.

AGGREGATE (PRIME COAT) = 5.0 LBS/SQ.YD.

HOT-MIX ASPHALT = 112 LBS/SQ.YD./INCH

AGGREGATE SHOULDERS = 2.10 TONS/CU.YD.

AGGREGATE SURFACE COURSE = 2.10 TONS/CU.YD.

GENERAL NOTES FOR RESURFACING

WHEREVER IN THE PLANS OR SPECIFICATIONS THE TERM STANDARD SPECIFICATIONS IS USED, IT SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AND ADOPTED JANUARY 1, 2012.

ALL ELEVATIONS SHOWN ARE IN REFERENCE TO AN ASSUMED DATUM.

WHERE SECTION, SUB-SECTION MARKERS, OR U.S. ARMY CORPS OF ENGINEER MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE DEPARTMENT AND AUTHORIZED AGENT OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

FOR THE SUGGESTED SEQUENCE OF OPERATIONS SEE THE CONTRACT SPECIAL PROVISIONS.

EXISTING ROAD SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED THE CONTRACTOR.

ALL STREET RETURNS SHALL HAVE RADII MEASURED TO THE EDGE OF THE PAVEMENT UNLESS OTHERWISE NOTED ON THE PLANS.

ACCESS TO ALL ENTRANCES SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THIS SECTION.

EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS & MUST BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CONTACT J.U.L.I.E., PHONE 800-892-0123, AND ALL UTILITY COMPANIES PRIOR TO DIGGING.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48 HOURS PRIOR TO EXCAVATION OPERATIONS.

THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PROTECT PUBLIC AND PRIVATE PROPERTY. IF AT ANY TIME THE CONTRACTOR DAMAGES OR DESTROYS PUBLIC OR PRIVATE PROPERTY, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, RESTORE SUCH PROPERTY TO A CONDITION EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE.

EXISTING CONCRETE AND BUTUMINOUS CONCRETE PAVEMENT IN WHICH THE TOP SURFACE IS TO BE BUTT JOINED TO THE PROPOSED WORK SHALL BE SO JOINED THROUGH FULL DEPTH SAW CUT JUNCTIONS. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED THE CONTRACTOR.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESS TO THE BITUMINOUS PLANT QUALITY CONTROL LAB SO THAT BITUMINOUS CONCRETE PLANT REPORTS CAN BE E-MAILED TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL BITUMINOUS ITEMS.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.

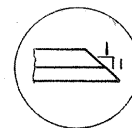
MAILBOX TURNOUTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH I.D.O.T. STANDARD B.L.R. 24.

THE CONTRACTOR SHALL NOTIFY THE SHELBY COUNTY HIGHWAY DEPARTMENT RESIDENT ENGINEER AND THE COUNTY ENGINEER 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.

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Sta. 78+05.45 Ah to Sta. 290+00

90+00 Bk
Sta. 78+05.45 Ah to Sta. 290+00



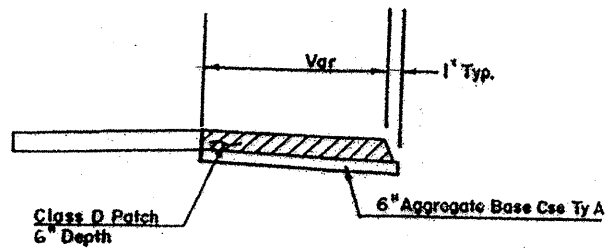
ENTRANCE DETAIL

SECTION A-A

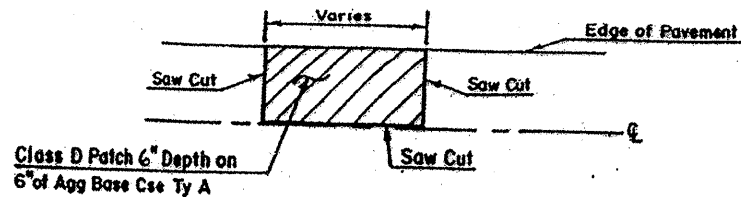
SIDEROAD DETAIL

SECTION B-B

RESURFACING TYPICAL SECTIONS		
SCALE:	APPROVED BY:	DRAWN BY
DATE:		REVISED
		DRAWING NUMBER



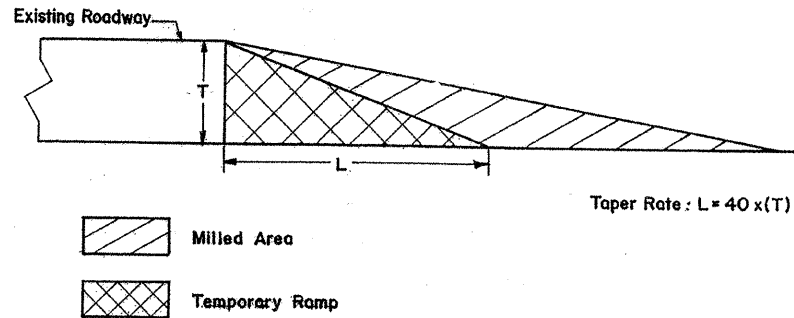
TYPICAL CROSS SECTION



PLAN VIEW
CLASS D PATCH DETAILS

PATCHING SCHEDULE

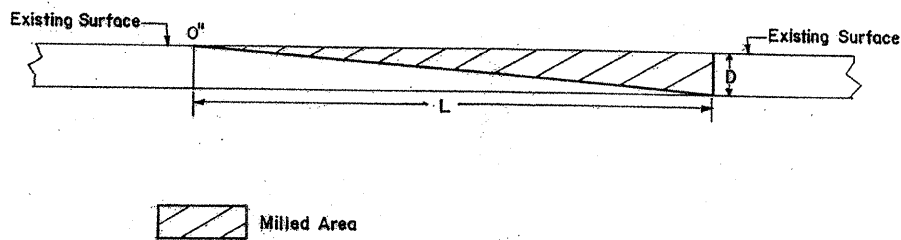
STATION TO STATION	LANE	WIDTH	CLASS D PATCHES TYPE IV (SQ YD)	SAW CUTS (FOOT)
87+60 TO 88+72	EB	11	138	134
90+65 TO 91+59	EB	11	115	116
117+12 TO 117+92	EB	6	53	92
117+47 TO 118+27	WB	6	53	92
134+35 TO 135+15	EB	11	98	102
148+50 TO 149+50	EB & WB	22	245	144
156+00 TO 158+00	EB	6	133	212
163+75 TO 165+00	EB	6	83	132
182+20 TO 183+20	WB	6	67	112
186+50 TO 188+00	EB	6	100	162
193+20 TO 194+00	WB	6	53	92
197+25 TO 198+00	EB	6	50	62
245+25 TO 245+75	EB & WB	22	122	94
248+00 TO 249+00	WB	6	67	112
		TOTAL	1377	1658



PROPOSED TYPICAL TEMPORARY RAMP

TEMPORARY RAMPS SCHEDULE

STA TO STA	"T"	"L"	QUANTITY
78+05.45 TO 78+13.78	2.5"	8.33 FT	20 SQUARE YARDS
289+91.67 TO 290+00	2.5"	8.33 FT	20 SQUARE YARDS
		TOTAL	40 SQUARE YARDS



PROPOSED TYPICAL BUTT JOINT

BUTT JOINT SCHEDULE

STA TO STA	"D"	"L"	QUANTITY
289+25 TO 290+00	2.5"	75 FT	183 SQUARE YARDS
		TOTAL	183 SQUARE YARDS

PATCHING, MILLING & RAMPS

SCALE:	APPROVED BY:	DRAWN BY:
DATE:		REVISED:
		DRAWING NUMBER

RESURFACING ENTRANCE QUANTITIES

TYPE	STA	O/S	WIDTH	INCIDENTAL HOT-MIX ASPHALT SURFACING (TONS)	INCIDENTAL PRIME COAT (GALLON)	AGGREGATE PRIME COAT
FE	78+60	LT	20'	1.5	1.5	0.1
PE	78+97	RT	20'	1.5	1.5	0.1
PE	81+44	RT	20'	1.5	1.5	0.1
FE	84+18	LT	20'	1.5	1.5	0.1
FE	84+18	RT	20'	1.5	1.5	0.1
PE	89+33	RT	20'	1.5	1.5	0.1
CE	91+30	RT	50'	3.0	3.0	0.1
FE	113+48	LT	32'	1.5	2.0	0.1
FE	116+11	RT	20'	1.5	1.5	0.1
FE	119+62	LT	20'	1.5	1.5	0.1
FE	120+44	LT	20'	1.5	1.5	0.1
FE	126+18	LT	20'	1.5	1.5	0.1
PE	128+31	RT	24'	1.5	1.5	0.1
FE	131+10	LT	20'	1.5	1.5	0.1
FE	133+56	RT	20'	1.5	1.5	0.1
FE	134+12	LT	20'	1.5	1.5	0.1
PE	140+48	RT	20'	1.5	1.5	0.1
PE	141+43	RT	28'	1.5	2.0	0.1
FE	141+43	LT	28'	1.5	1.5	0.1
FE	153+32	LT	20'	1.5	1.5	0.1
FE	161+85	LT	20'	1.5	1.5	0.1
PE	162+70	LT	20'	1.5	1.5	0.1
FE	167+31	LT	20'	1.5	1.5	0.1
PE	178+27	LT	20'	1.5	1.5	0.1
FE	180+20	RT	20'	1.5	1.5	0.1
FE	180+27	LT	16'	1.5	1.5	0.1
FE	180+69	RT	30'	1.5	2.0	0.1
FE	190+55	LT	20'	1.5	1.5	0.1
PE	191+50	LT	30'	2.0	2.0	0.1
PE	193+31	RT	20'	1.5	1.5	0.1
PE	194+52	LT	20'	1.5	1.5	0.1
PE	199+85	LT	20'	1.5	1.5	0.1
PE	199+85	RT	20'	1.5	1.5	0.1
PE	203+13	LT	20'	1.5	1.5	0.1
PE	206+42	LT	20'	1.5	1.5	0.1
FE	206+45	RT	20'	1.5	1.5	0.1
FE	212+35	LT	30'	2.0	2.0	0.1
FE	215+94	RT	20'	1.5	1.5	0.1
PE	217+23	LT	20'	1.5	1.5	0.1
PE	223+62	RT	26'	1.5	2.0	0.1
FE	226+30	LT	20'	1.5	1.5	0.1
FE	227+00	RT	20'	1.5	1.5	0.1
PE	227+48	LT	20'	1.5	1.5	0.1
FE	228+56	LT	20'	1.5	1.5	0.1
PE	232+90	LT	20'	1.5	1.5	0.1
PE	233+10	RT	44'	2.5	2.5	0.1
PE	237+43	LT	20'	1.5	1.5	0.1
PE	241+95	LT	20'	1.5	1.5	0.1
FE	243+00	LT	20'	1.5	1.5	0.1
PE	244+53	RT	20'	1.5	1.5	0.1
PE	247+80	RT	20'	1.5	1.5	0.1
PE	248+75	RT	20'	1.5	1.5	0.1
FE	256+40	LT	20'	1.5	1.5	0.1
FE	259+40	RT	20'	1.5	1.5	0.1
PE	266+07	RT	20'	1.5	1.5	0.1
FE	266+21	LT	24'	2.0	2.0	0.1
FE	271+90	RT	20'	1.5	1.5	0.1
FE	277+95	LT	20'	1.5	1.5	0.1
FE	284+38	LT	20'	1.5	1.5	0.1
FE	289+05	LT	20'	1.5	1.5	0.1
			TOTALS	94 TON	96 GALLON	6.0 TON

AGGREGATE SURFACE COURSE TYPE B

There are 60 entrances located in the resurfacing portion of this project STA 75+05.45 to STA 290+00.

One Ton of Aggregate Surface Course Type B has been included for each entrance to be placed beyond the Incidental Hot Mix Asphalt Surfacing as directed by the Engineer.

SIDE ROAD ENTRANCE QUANTITIES

STA	O/S	INCIDENTAL HOT-MIX ASPHALT SURFACING (TONS)	INCIDENTAL PRIME COAT (GALLON)	AGGREGATE PRIME COAT (TONS)
102+36.17	LT	2	2	0.5
102+36.17	RT	2	2	0.5
154+00	LT	2	2	0.5
154+00	RT	2	2	0.5
246+28	LT	2	2	0.5
246+28	RT	2	2	0.5
285+78	LT	3	2	0.5
285+78	RT	3	2	0.5
		18 TONS	16 GALLONS	4 TONS

HOT-MIX ASPHALT SHOULDERS

STA TO STA	O/S	EARTH EXCAVATION WIDENING	HOT-MIX ASPHALT SHOULDERS	DEPTH
218+00 TO 223+40	LT	54 CU YD	121 TONS	8"
218+00 TO 223+40	RT	54 CU YD	121 TONS	8"
	TOTAL	108 CU YD	242 TONS	

PAINT PAVEMENT MARKING - LINE 4" SCHEDULE

STA TO STA	TYPE	LOCATION	COLOR	QUANTITY (FEET)
78+05 TO 290+00	SKIP DASH	CENTERLINE	YELLOW	5300
78+05 TO 290+00	EDGE LINE	LT EDGELINE	WHITE	21195
78+05 TO 290+00	EDGE LINE	RT EDGELINE	WHITE	21195
102+36 TO 142+00	NO PASSING	LT SIDE	YELLOW	3964
102+36 TO 142+10	NO PASSING	RT SIDE	YELLOW	3974
190+05 TO 200+50	NO PASSING	RT SIDE	YELLOW	1045
200+35 TO 210+02	NO PASSING	LT SIDE	YELLOW	967
213+55 TO 223+34	NO PASSING	RT SIDE	YELLOW	979
223+68 TO 235+16	NO PASSING	LT SIDE	YELLOW	1148
223+68 TO 235+16	NO PASSING	RT SIDE	YELLOW	1148
			TOTAL	60915

PAINT PAVEMENT MARKING - LINE 24" SCHEDULE

STATION	TYPE	LOCATION	COLOR	QUANTITY (FEET)
285+64	STOP BAR	RIGHT	WHITE	12
285+92	STOP BAR	LEFT	WHITE	12
			TOTAL	24

SHORT TERM PAVEMENT MARKING SCHEDULE

STA TO STA	LIFT	QUANTITY (FOOT)
78+05.45 TO 290+00	PRIME	2120
78+05.45 TO 290+00	LEVEL BINDER	2120
78+05.45 TO 290+00	SURFACE	2120
	TOTAL	6360

WORK ZONE PAVEMENT MARKING REMOVAL SCHEDULE

STA TO STA	LIFT	QUANTITY
78+05.45 TO 290+00	SURFACE	700 SQ FT
	TOTAL	700 SQ FT

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	09-00271-00-RS	SHELBY	62	62

NEOGA PROJECT

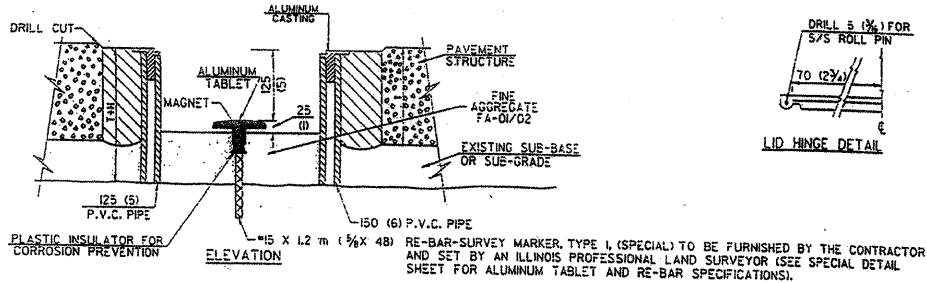
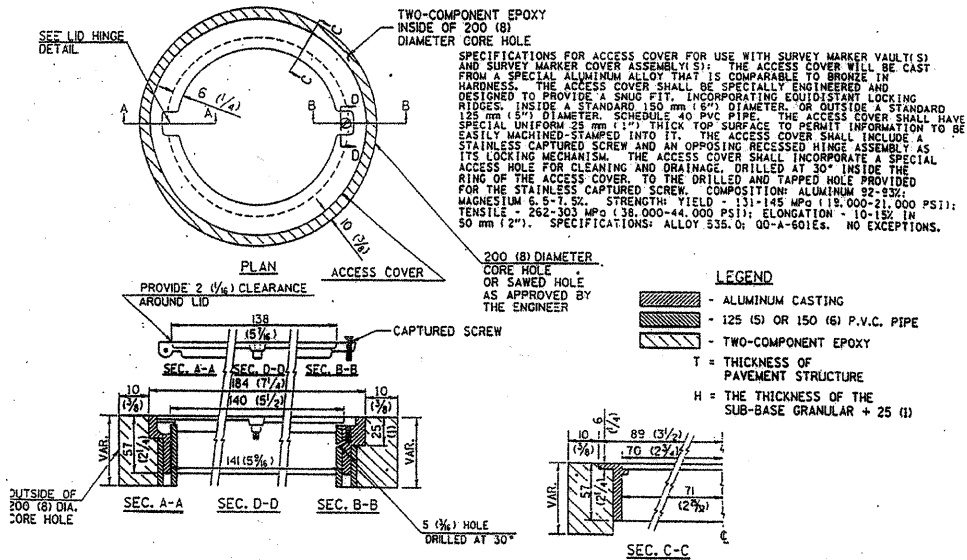
CONTRACT NO. 95670

PERMANENT SURVEY MONUMENTS

STA	O/S	QTY
102+36	11' RT	1
126+60	CENTERLINE	1
153+95	6' LT	1
206+36	11' LT	1
232+87	4' LT	1
259+48	9' LT	1
285+70	1' LT	1
	TOTAL	7 EA

DETAIL OF SURVEY MARKER VAULT

FOR RESET LAND SURVEY MONUMENTS IN RIGID AND COMPOSITE PAVEMENTS



GENERAL NOTES

- ALUMINUM CASTING SHALL BE EITHER PLACED OVER A 125 mm (5") P.V.C. PIPE OR INSIDE OF A 150 mm (6") P.V.C. PIPE.
- BACKFILL WITH FINE AGGREGATE-FA-01/02.
- WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF CLASS 1 HAS BEEN COMPLETED.
- SEE SPECIAL PROVISION "PRESERVATION OF LAND SURVEY MONUMENTS".
- THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MARKER VAULT WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING, EPOXY AND FA-01/02 AGGREGATE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CASTING SHALL BE ANCHORED IN THE 200 mm (8") DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01(725.00) OF THE STANDARD SPECIFICATIONS.
- ALL SURVEY MARKER (VAULTS) SHALL BE PLACED 6 mm (1/4") BELOW THE FINAL SURFACE.
- THE 200 mm (8") DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

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

BILL OF MATERIAL
ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS.
125 mm OR 150 mm (5" OR 6") P.V.C. PIPE, SCHEDULE 40, ALUMINUM TABLET, STAMPED IN ACCORDANCE WITH STANDARD 2135.
#15 X 1.2 m (5/8" X 48") RE-BAR, EPOXY AND FA-01/02 AGGREGATE.

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