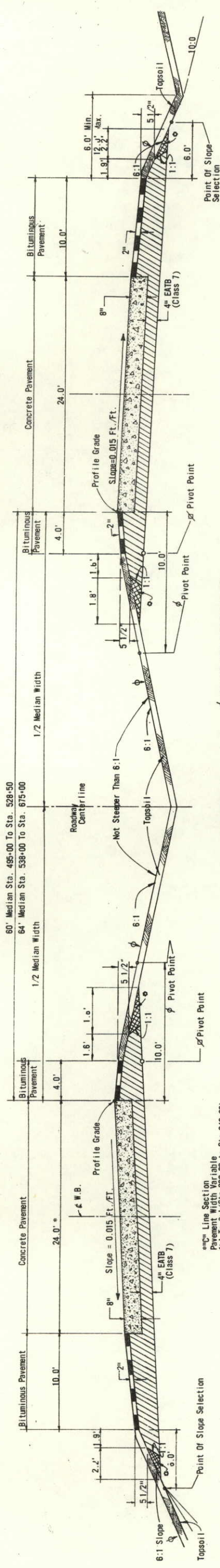


AS CONSTRUCTED
NO REVISIONS DATE 2-5-75

FEDERAL ROAD DISTRICT NO.	PROJECT NO.	SHEET NO.
XIII	U 034-2(2)	2

TYPICAL SECTIONS

NOTE: ALL WORK ABOVE SUBGRADE LINE - FUTURE CONSTRUCTION.



Sta 225 "E" + 00 To Sta 500+00

Sta 500+00 To Sta 589+00

This Area To Be Filled With Embankment Material Work To Be Incidental Earthwork Quantities

NOTE:

MAINLINE SECTION
Construction Limits This Project
BERMS AT STRUCTURES ONLY
See Sheet No. 6 for Detail of Berm

"W" Line Section
Pavement Width Variable
1b' To 24' (Sta 230.00 to Sta 240.00)
Sta. 223 "W" + 20.10 To Sta. 248 "W" + 58.83

NOTES:

See standards for details of cut slope treatment, flaring and widening.
Excavation below 6:1 slope and/or 10:1 slope will not be permitted.
The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage.

Frontage Road Material shall be placed in separate courses at the following rates per 100 lin. ft. of roadway:

Bituminous Pavement	Top Layer	27.5 Tons
EATB	Bottom Layer	38.5 Tons
		85.0 Tons

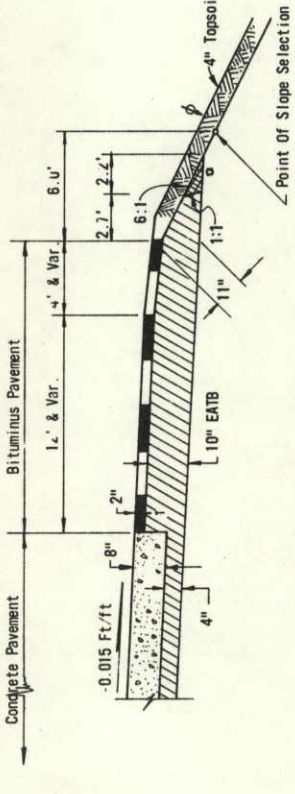
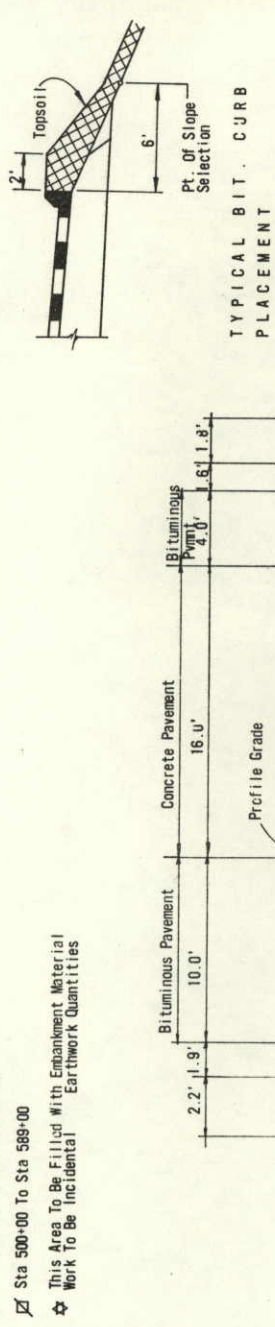
Except when topsoil is called for, the Contractor will be required to place additional gravel or other suitable material to this line after completion of paving operation. Topsoil, when required, will be placed to the line shown.

Fill Slopes:

Slope 6:1 where "W" is 10 or less
Slope 4:1 where "W" is 10 to 25
Slope 3:1 where "W" is over 25

Break points on slopes and in bottoms of ditches shall be rounded on construction for pleasing appearance.

All Bituminous Pavement to be Fog Sealed with SS-1H Emulsion @ 10 Gals. Per Sq. Yd. of the Mixture (diluted 1:1)

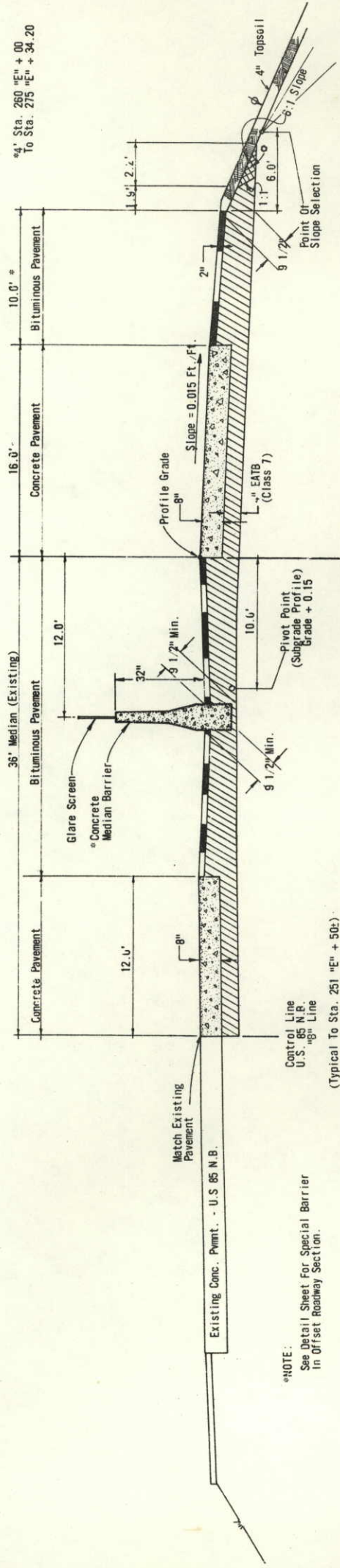


ACCEL AND DECEL. LANES

"I" & "D" RAMPS SECTION

*From Sta. 269+ To 275+ width Varies (See Line Sheets)

*Sta. 260 "E" + 00 To Sta. 275 "E" + 34.20



*NOTE:
See Detail Sheet For Special Barrier In Offset Roadway Section.

(Typical To Sta. 251 "E" + 50+)

"E" RAMP SECTION

Sta. 225 "E" + 00 To Sta. 275 "E" + 34.20

FRONTAGE ROAD

SUMMARY OF ^{FINAL}~~APPROXIMATE~~ QUANTITIES

(R-1) 12-6-73 M.E.V. Rev Quantity
AS CONSTRUCTED
REVISED DATE 6-5-75

(R-1) 12-6-73 M.E.V. Rev Quantity
AS CONSTRUCTED
REVISED DATE 6-5-75

SUMMARY OF APPROXIMATE QUANTITIES					
INDEX		CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY QUANTITY
PAGE	SHEET				
100	100	51802000	Expand Device Ty 2	LIN. FT.	
100	100	51803000	Expand Device Ty 3	LIN. FT.	
200	200	60100040	Concrete CL A (Bridge)	CU. YD.	
200	200	60103040	Concrete CL D (Bridge)	CU. YD.	
200	200	60200000	Reinf. Steel	LB	
200	200	60310060	6 INCH CORRUGATED STEEL PIPE	LIN. FT.	
200	200	60700005	END POST	EACH	
200	200	60700010	CORNER AND LINE BRACE POST	EACH	
200	200	60701000	FENCE BARBED WIRE WITH METAL POSTS	LIN. FT.	
* NOTE: Final includes following quantities at State Expense ~ Sec C.O. # 07180 206 - 260 Cu. Yds. 601 - 284 Cu. Yds. 602 - 1622 lbs. All at Str. C 18-EL					
200	200	61300075	3/4 In Elec. Cond.	LIN. FT.	
200	200	61300150	1-1/2 In Elec. Cond.	LIN. FT.	
200	200	61400000	Flagging	HOUR	
200	200	62000010	Field Laboratory	EACH	
200	200	62000020	Sanitary Facility	EACH	

[illegible]

GENERAL NOTES

Depth of Moisture-Density Control for this Project shall be as follows:

Full Depth of all Embankments.

Bases of Cuts $\frac{1}{2}$ Foot

Bases of Fills 1/2 Foot
Fill Depth of Same Dikes

Full Depth of Spur Dikes
Full Depth of Embankment Sections Used for Ditches
and Channel Changes.

Excavation required for Compaction of Bases of Cuts and Fills will be considered as Subsidiary to that operation and will not be paid for separately.

The minimum thickness of Topsoil shall be 4 inches. It is estimated 1800 cu yds. will be required and will be obtained from underneath the structure berms at Firs.

Earth slopes shall be disc'd or roughened by other approved methods for Mulching or Erosion Protection.

Class "A" Concrete will be permitted on this project in lieu of Class "A", Class "B", Class "D", or Class "P."

Guard Posts, Signs and Delineators will be removed by State Forces.

It is estimated that 1000 Hours of Flagging for controlling Traffic will be required for this Project.

Diluted Emulsified Asphalt (CSS-1) shall be used as a dust palliative where required and shall consist of a dilution of Emulsified Asphalt and water, the portions of which shall be 9 parts water and 1 part Emulsified Asphalt, based on volume measurement. Locations shall be as ordered.

The Contractor shall provide on-the-job training aimed at developing full journeymen in the type of trade involved. The number of trainees to be trained under this contract will be 2.

FENCING TABULATION

STATION	SIDE	REMOVE FENCE		RESET FENCE		BUILD FENCE	
		LT.	RT.	LT.	RT.	LT.	RT.
233+00 "E" Line to 252+00 "D" Line	LT.	2,528					
238+00 "E" Line	LT.	40	37				
240+00 "E" Line	LT.	50	48				
Along First Ave.	East		1,025	520	387		
Along U.P.R.R. (for Haul Road)			152	100	100		
240+60 to 252+00 "D" Line	LT.		153			1,230	
Along First Ave.	West					420	
233+00 "E" Line to 248+00 "I" Line	LT.					1,440	552
499+95 Main Line to 235+00 "C" Line	RT.					1,065	1,401
270+00 "E" Line to 499+95 Main Line	RT.					1,030	
ROW 4 Intersect Ditch, LT. "D" Line	LT.		1,048				1,197
Totals Final		2,860	4,821	680	487	5,485	3,150

It is estimated that 4 End Posts and 15 Corner and Line Brace Posts ~~will be~~ required.
5 11

SUMMARY OF EARTHWORK QUANTITIES

UNCLASSIFIED EXCAVATION

Excavation for Topsoil	8.291	13,250	CU Yd.
Structure List as Ditch		60	
Total	8.291	13,310	CU Yd.

Borrow

For Roadway Embankment
For Replacing Topsoil
Structure List as Embankment

COMPACTION (AASHTO T 180)

	CU Yd	CU Yd
Embankment (Net)	145-000	CU Yd
Base of Cuts and Fills	4-4-5	
Emb. to Replace Topsoil	13-250	
Structure List as Embankment (Net)	500	
Total	169 383	163-165- CU Yd

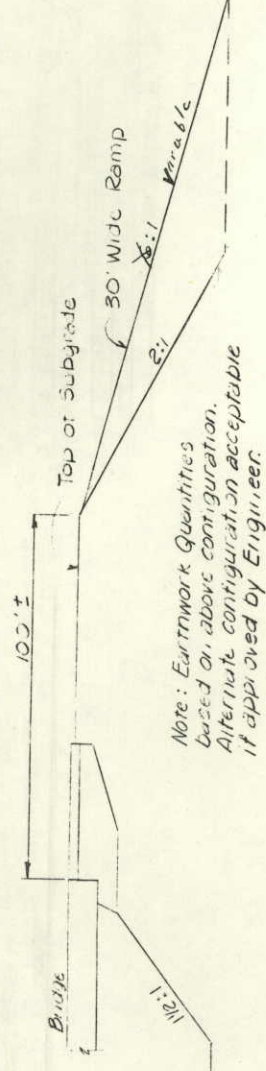
HAUL

From Mass-Debit	Est. for replacing Topsoil	28/10/82	237,445	Yd. M.
Total		28/10/82	256,732 <td>Yd. M.</td>	Yd. M.

ROADWAY QUANTITIES BALANCE

EXCAVATION			
BORROW	223,687	195,759	Cu. Yd
EMBANKMENT NET	169,383	745,000	Cu. Yd
EMBANKMENT x FACTOR (1.95)	Total	195,759	Cu. Yd
	(1,920,595)	223,687	

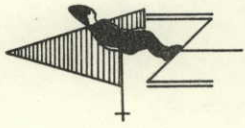
DETAIL OF BERM AT BRIDGE ENDS



(R-1) 11-7-73, M.E.V. - Added Haul Road

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1111	COLORADO	UO34-2(2)	7	111

AS CONSTRUCTED
REVISED DATE 6-5-75



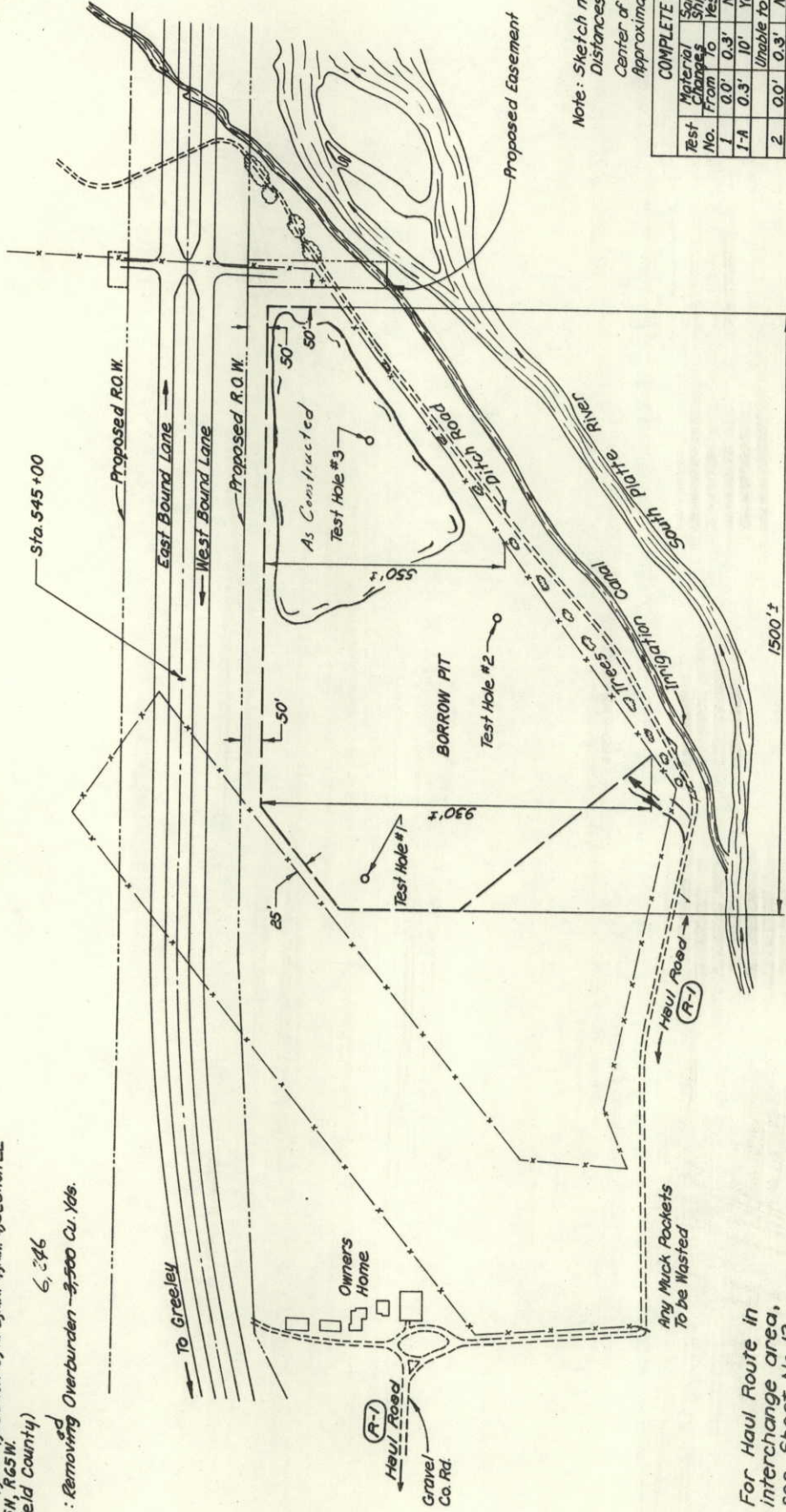
GROSSAINT BORROW PIT

OWNER: NORMA L. GROSSAINT
RT. 4 BOX 294
GREELEY, COLORADO

LOCATION: S. 1/2, S.E. 1/4, Section 16, N. 1/2, N.E. 1/4, N.E. 1/4, Section 21,
SW 1/4, SW 1/4, Section 15, N. 1/2, NW 1/4, NW 1/4, Section 22,
T5N, R65W.
(Weld County)

6,246

Stripping: Removing Overburden - 3,500 Cu. Yds.



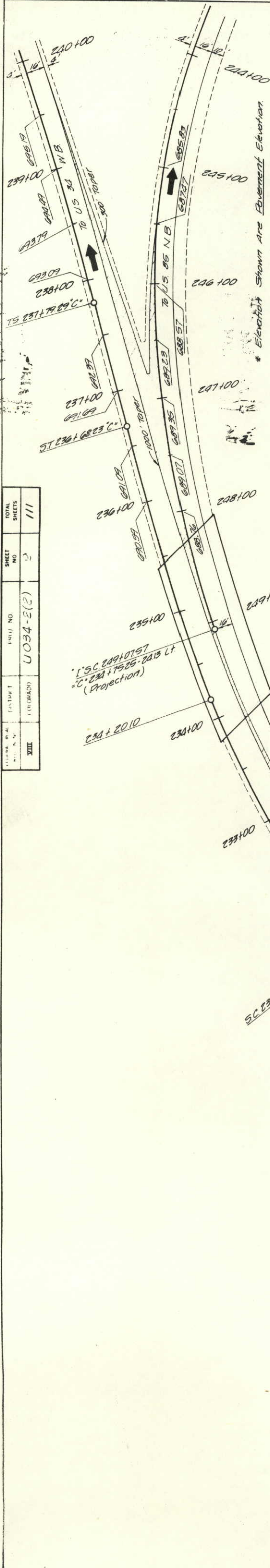
Sample No. 1124
Date of Sample 5-19-72

Note: Sketch not drawn to scale.
Distances are approximate only.
Center of Pit to Center of Project = Approx. 1.15 Miles.
Approximately 650,000 Cu. Yds. available. Used 229,687 Cu. Yds.

COMPLETE LOG OF TEST HOLE				
Test No.	Material Changes From To	Sample No. Shipped Yes/No	Depth of Sacks/Feet	Description of Material (With or Without Sample)
1-A	0.0' 0.3'	No	3'	Sod
1-A	0.3' 10'	Yes	1	Fine Sand & Gravel
2	0.0' 0.3'	No	4'	Sod
2-A	0.3' 10'	No	---	Similar to #1-A
3	0.0' 0.3'	No	4'	Sod
3-A	0.3' 10'	No	---	Similar to #1-A

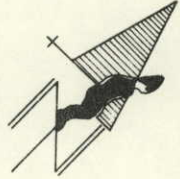
Note: For Haul Route in interchange area, see Sheet No. 12.

PROJECT NO.	DATE	BY	CHECKED	DATE	BY	CHECKED	TOTAL SHEETS	SHEET NO.	OF
U034-2(2)							111	2	2



AS CONSTRUCTED
NO DIVISIONS

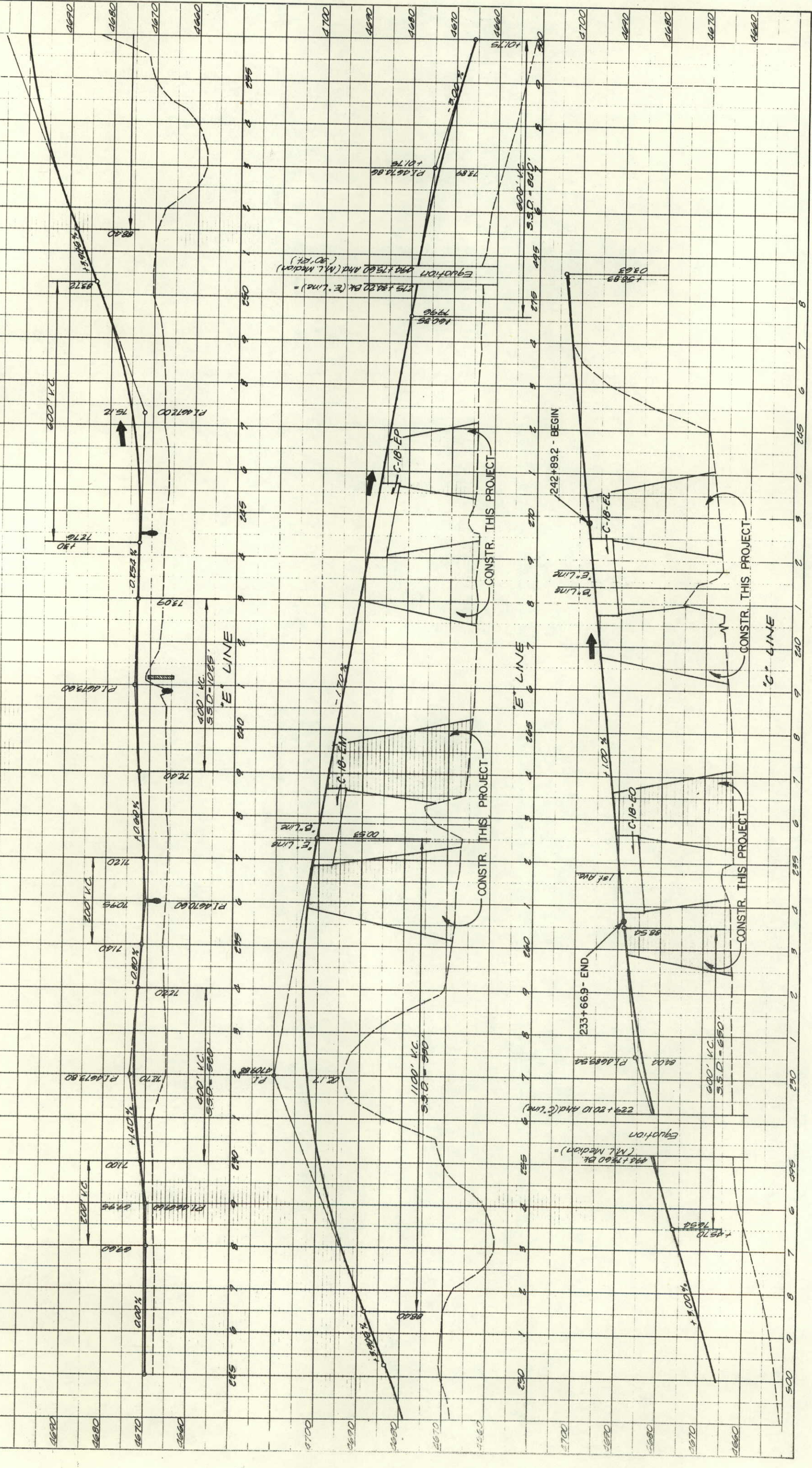
SUPERELEVATION TABLE			
"C" LINE		"I" LINE	
Station	Super Elevation	Station	Super Elevation
236+00	- .06	245+00	- .08
237+00	- .05	246+00	- .08
238+00	- .05	247+00	- .07
239+00	- .05	248+00	- .06
240+00	- .05	249+00	- .06
241+00	- .05	250+00	- .06
242+00	- .05	251+00	- .06
243+00	- .05	252+00	- .06
244+00	- .05	253+00	- .06
245+00	- .05	254+00	- .06



DETAILS OF GORE AREA
Between "C" Ramp & "I" Ramp
Scale 1"=40'

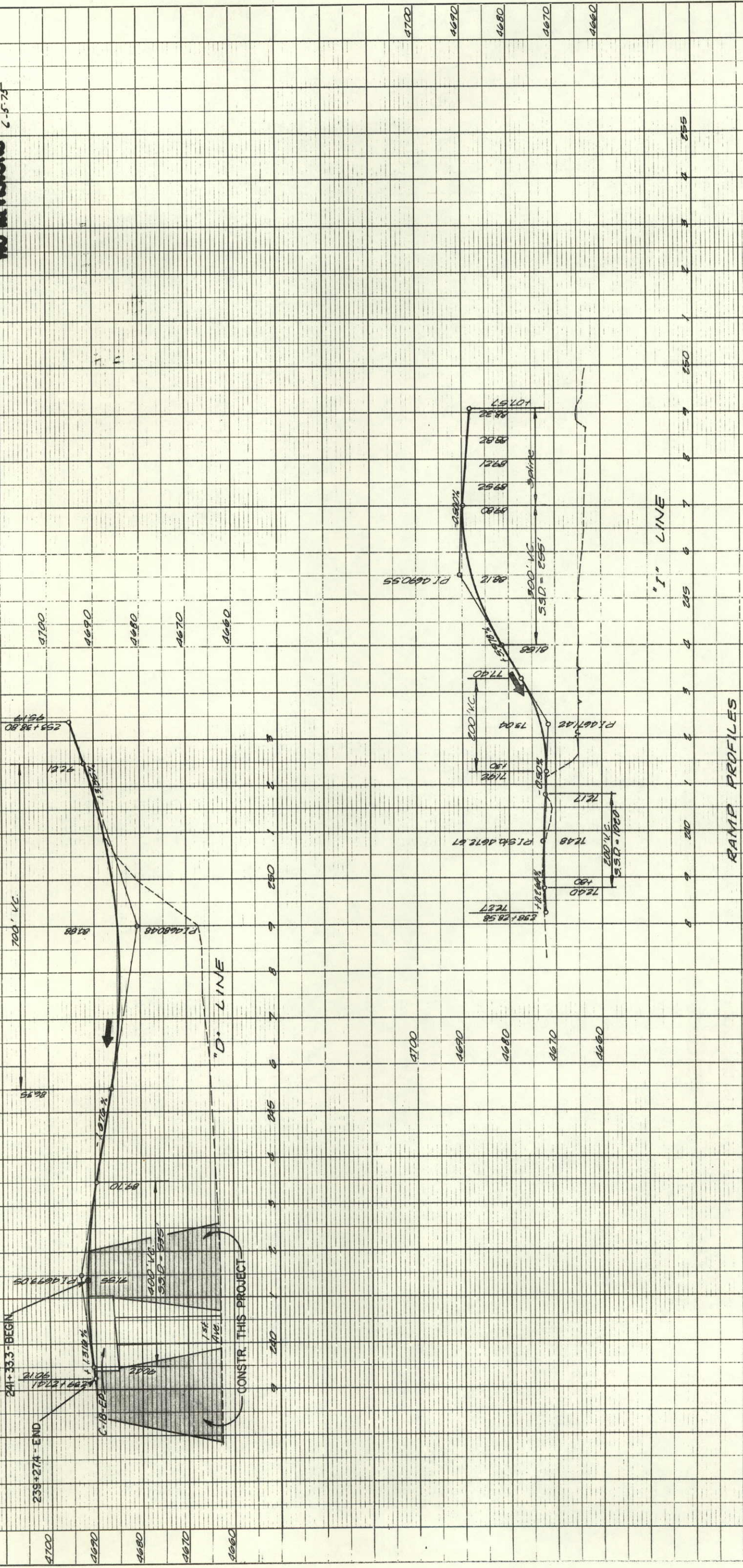
RAMP PROFILES

58-5-75

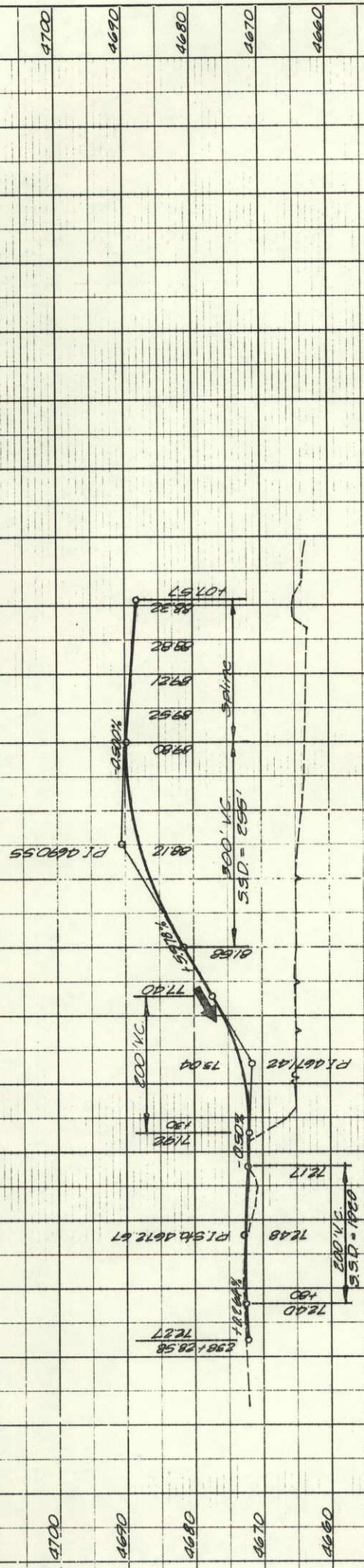


FEDERAL ROAD DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII COLORADO	U034-212	11	111

AS CONSTRUCTED
NO REVISIONS
DATE 6-5-75



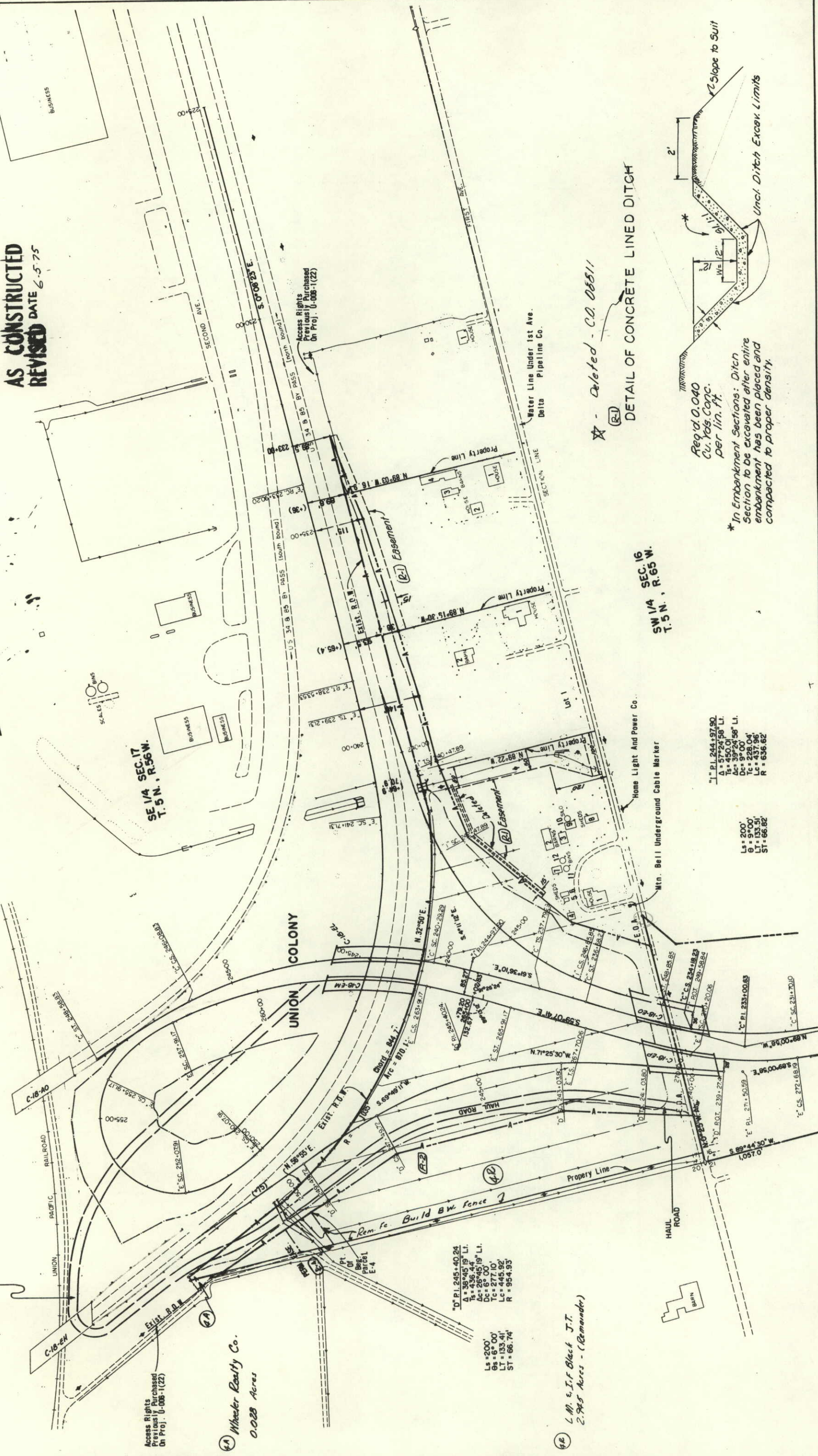
RAMP PROFILES



REVISIONS	Added E.O.M. & Ditches	WEV
11-7-73	Added E.O.M. & Ditches	WEV
12-6-73	Deleted R.O.W. Dim.	WEV

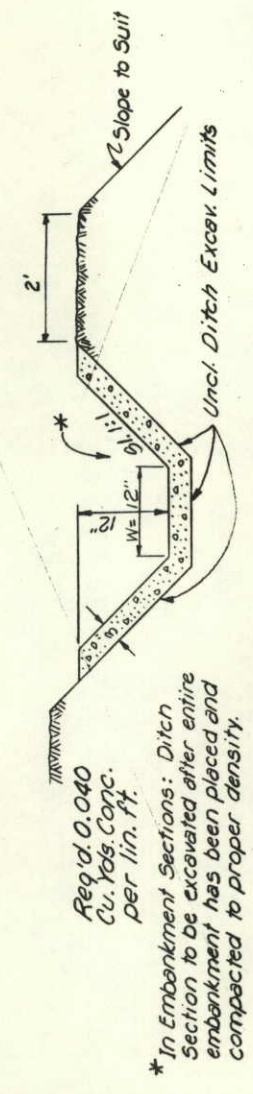
AS CONSTRUCTED
REVISED DATE 6-5-75

NOTE: Where Haul Road crosses irrigation ditches Contractor shall provide temporary culverts at his expense.



★ Deleted - C.O. 06811

DETAIL OF CONCRETE LINED DITCH



SW 1/4 SEC. 16
T. 5 N., R. 65 W.

1" P.I. 244+97.90
Δ = 57°24'58" L.
Ts = 450.01
Dc = 39°24'58" L.
Tc = 229.04
Rc = 636.62
R = 636.62

4e L.M. & I.F. Black J.T.
2.945 Acres - (Remainder)

4A Wheeler Realty Co.
0.028 Acres

Access Rights
Previously Purchased
On Proj. U-008-1(22)

DATE	BY	REMARKS

