

STATE OF OHIO DEPARTMENT OF HIGHWAYS MAD-40-2.40 MADISON COUNTY SOMERFORD TOWNSHIP

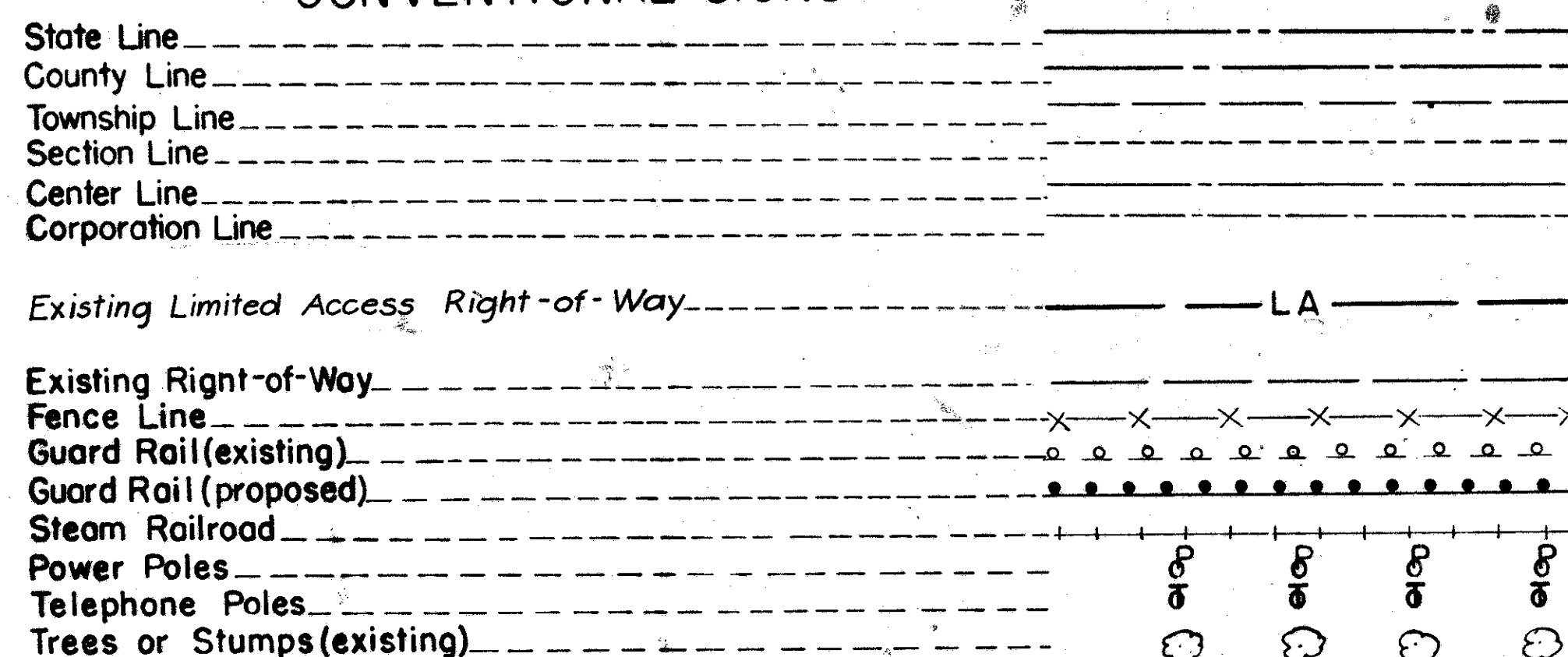
FED. RD. DIVISION	STATE	PROJECT	1 10
2	OHIO	STATE	

**MADISON COUNTY
MAD-40-2.40**

JUN 10 1964
GROUND PHOTOLAB

File F-13

CONVENTIONAL SIGNS



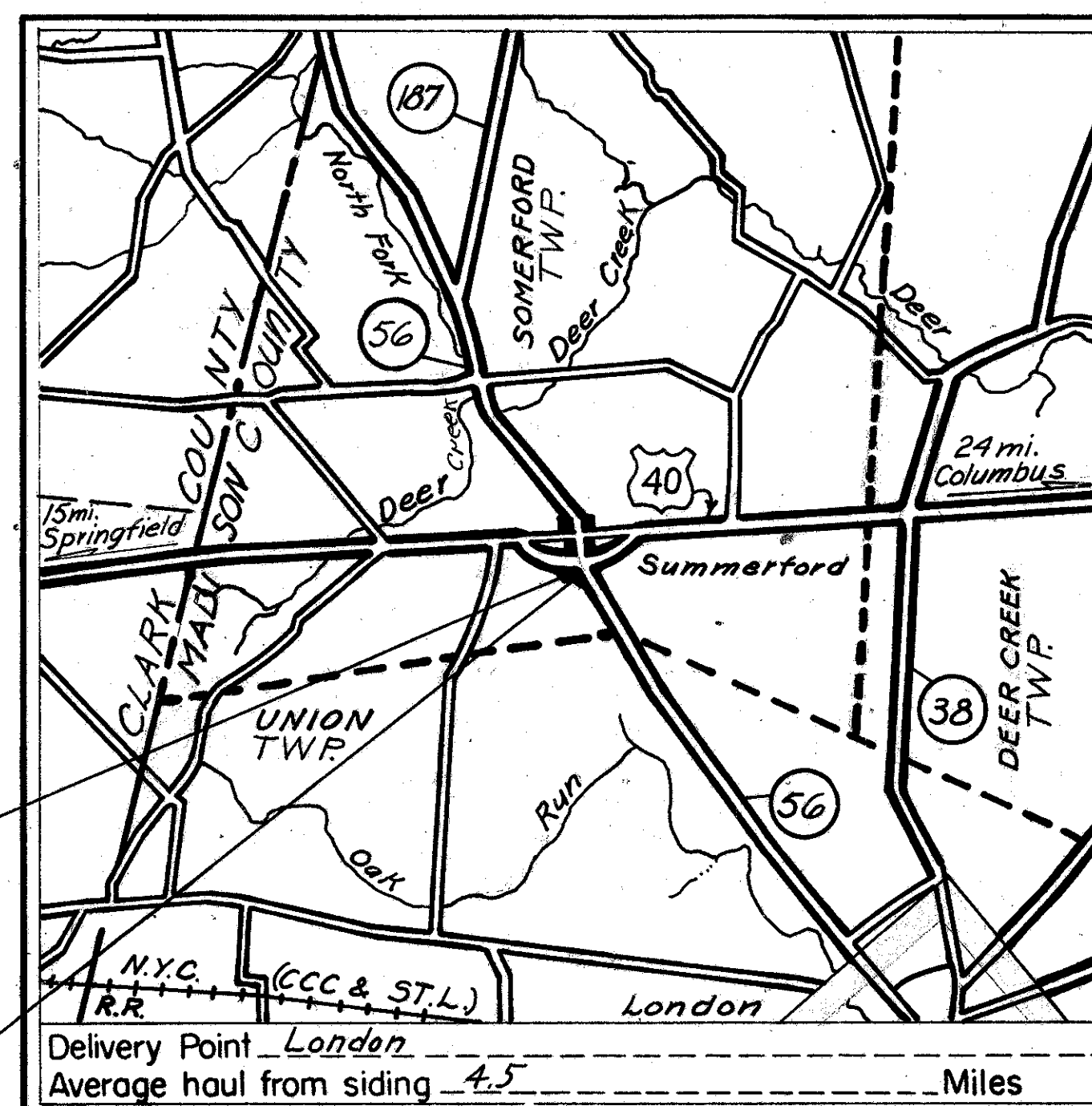
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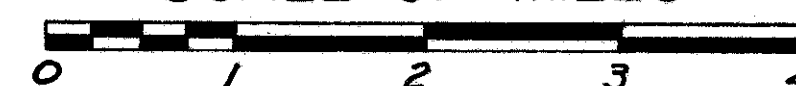
*BEGIN WORK and
BEGIN PROJECT
Sta. 125+69.75*

*END PROJECT
Sta. 130+09.75*

*END WORK
Sta. 130+60.32*



LOCATION MAP
SCALE OF MILES



Portion to be improved
State Roads
Other Roads

SCALE

Plan ----- 1" = 20'
Profile: Horizontal ----- 1" = 20'
Profile: Vertical ----- 1" = 2'
Cross Sections ----- 1" = 10'

LINE DATA

<i>Begin Work and Begin Project</i> Station 125+69.75	LIN. FT.
<i>End Project</i> Station 130+09.75	440.0
<i>End Work</i> Station 130+60.32	490.57

NET LENGTH OF PROJECT ----- 440.0 Lin. Ft. or 0.083 Mile
NET LENGTH OF WORK ----- 490.57 0.093 Mile

The standard specifications of the State of Ohio, Department of Highways, including changes and supplemental specifications listed in the proposal shall govern this improvement.

The right of way for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that the making of this improvement will not require the closing of the highway to traffic and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved E. I. Shelley
Date 7-12-60 Division Deputy Director

Approved Gayle P. Nease
Date 7-18-60 Deputy Director of Planning & Programming

Approved _____
Date _____ Engineer of Bridges

Approved W. J. ...
Date 7-12-60 Engineer of Location & Design

Approved C. W. McLaughlin
Date 7-18-60 Deputy Director of Design & Construction

Approved W. Berry
Date 7-18-60 First Assistant Director

Approved E. S. Preston
Date 7-18-60 Director of Highways

JUN 10 1964
GROUND PHOTOLAB

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED: _____

DISTRICT ENGINEER _____ DATE _____

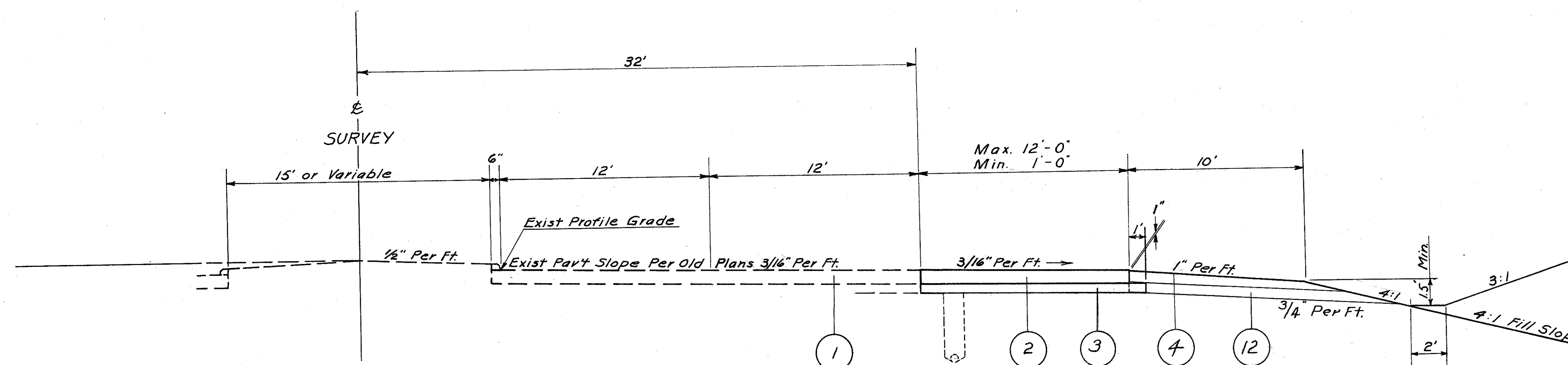
Supplemental Prints of Standard Construction Drawings			
RI-1	7-15-58	I-1, 2, 3, 4, 5	4-24-58
L-3	4-1-50		
L.J. No. 1	7-1-55		
T.J.	5-1-56		
B-T-50-TOTIE No. 1	10-1-47		
B-T-71R	3-2-53		

Supplemental Specifications
None

File No.	Madison County	MAD-40-2.40
Date of Letting	19	
Contract No.		

TYPICAL SECTIONS

TYPE T-71 *TYPE T-70*
Scale 1/4" = 1'

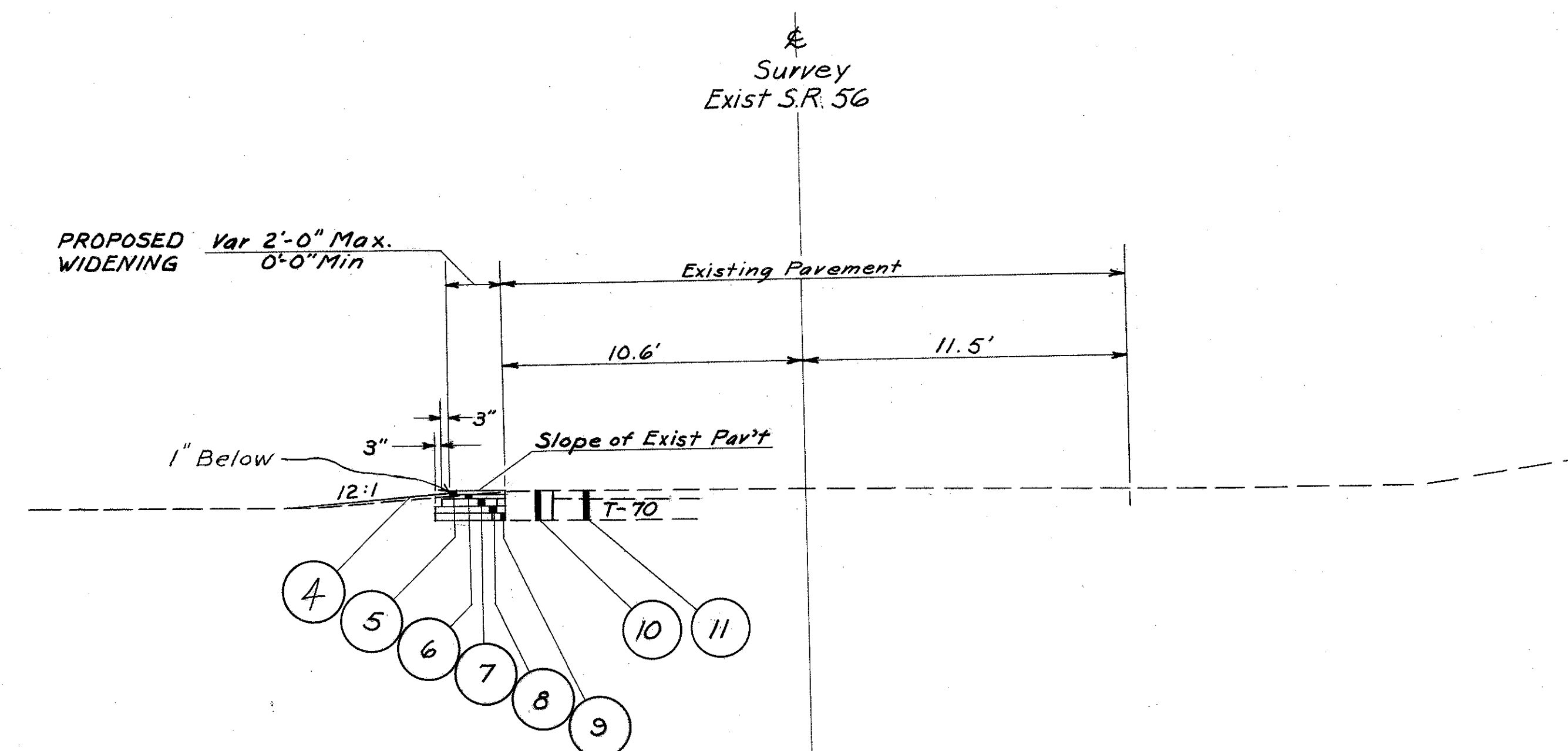


TAPER AND DECELERATION LANE

SCHEDULE OF STATIONING

From	To	Length	Lin. Ft.
125+69.75	130+09.75	440.00	

- ① T-71 9" Reinforced Portland Cement Concrete Pavement (Existing)
 - ② T-71 9" Reinforced Portland Cement Concrete Pavement
 - ③ I-22 6" Subbase
 - ④ L-9 Seeding and Protecting
 - ⑤ T-35 1/4" Asphaltic Concrete Surface Course, Type "A" (70-85)
 - ⑥ B-35 1 3/4" Asphaltic Concrete Leveling Course, (70-85)
 - ⑦ B-35 3" Asphaltic Concrete Level. Course, (70-85)
 - ⑧ B-35 3" Asphaltic Concrete Level. Course, (70-85)
 - ⑨ I-22 3" Subbase
- To Be Performed by State Forces.
- ⑩ Bituminous Surface on Flexible Base (Existing)
 - ⑪ Bituminous Surface on Rigid Base (Existing)
 - ⑫ I-9 Stone Underdrain No.2



TO BE PERFORMED BY STATE FORCES
FLEXIBLE PAVEMENT WIDENING (See Standard Construction Drawing T-35)

SCHEDULE OF STATIONING

From	To	Length	Lin. Ft.
169+00.00	169+32.45	32.45	

GENERAL NOTES

Elevation Datum

All elevations are based on the U.S.G.S. Datum.

Utility Adjustment

Any and all work required for private or public utilities will be done by and at the expense of the respective owners, unless otherwise noted on the plans.

Existing Underground Appurtenances

The location, size and depth of all existing pipe and underground utility appurtenances represents the best information obtainable, but the State of Ohio does not guarantee the correctness thereof.

Location, and Size of Existing Pipe

The location, size, and depth of all existing pipes are shown as near exact as the available information will permit. The State of Ohio will not be responsible for variations found during construction. Any additional pipe needed to make required connections shall be paid for at the contract unit price bid for the appropriate type and size. All payments shall be based on final measurements.

Connections to Existing Pipe

At places where the Plans provide for proposed drainage pipe to be connected to existing pipe, it shall be the responsibility of the contractor to locate the existing pipe both as to line and grade before he starts to lay the proposed pipe. The cost of this operation shall be included in the unit price bid for the pertinent pipe item.

Right of Way Monuments, Federal Project Markers and Section Markers

Existing R/W monuments, benchmarks, federal project markers, section markers, and property markers that will be removed by construction shall be protected by the contractor as per Sec G-709 until they can be witnessed and referenced for future resetting by State survey crews.

Seeding

Quantities for seeding are calculated for the soil area limited by a line 10' beyond construction limits.

Seeding Formula

The seeding mixture shall be as listed in Sec L-9.11 of the specifications.

L-9 Commercial Fertilizer

All areas to be seeded shall have commercial fertilizer (12-12-12) applied at the rate of 20 pounds per 1000 square feet.

Maintaining Traffic

Traffic shall be maintained at all times on the existing adjoining pavement except as otherwise specifically authorized by the Engineer. The Contractor shall, in addition to the general requirements of Sec. G-7.07, provide, erect, and maintain lights, signs, and barricades at all times along the area to be excavated for pavement widening.

Payment for providing, erecting, maintaining, and removing barricades, gates, lights, signs, and sign supports shall be included in the lump sum price bid for Maintaining Traffic.

COMPUTATIONS

PROJECT LENGTH 440.00 FT.

ITEM T-71 REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

AREA = $12 \times 200 + (1 \times 12) \times 240 + 2 = 3960.00$ SQ. FT.
ADD FOR INTERSECTION S.R. 56 = 647.19 SQ. FT.
4607.19 SQ. FT.

$4607.19 \div 9 =$

TO GENERAL SUMMARY

511.91 SQ. YDS.
512 SQ. YDS.

ITEM E-1 COMPACTED SUBGRADE

AREA FROM T-71 COMPUTATIONS
TO GENERAL SUMMARY

511.91 SQ. YDS.
512 SQ. YDS.

ITEM E-II WATER

TOTAL EMBANKMENT FROM EARTHWORK TABLE 375 CU. YDS.
TOTAL I-22 FROM GENERAL SUMMARY 96 CU. YDS.
441 CU. YDS.

RATE OF APPLICATION = 5 GAL. PER CU. YD.

$441 \times 5 = 2205$

TO GENERAL SUMMARY

2.2 M. GALS.
2.1 M. GALS.

ITEM L-9 COMMERCIAL FERTILIZER

TOTAL SEEDING FROM SEEDING TABLE = 2102 SQ. YDS.
RATE OF APPLICATION = 20 LB. PER 1000 SQ. FT.
 $2102 \times 9 \times 20 \div (1000 \times 2000) =$

TO GENERAL SUMMARY

0.19 TONS.
0.19 TONS.

ITEM I-22 SUBBASE

VOLUME = $[3 \times 200 + (2 \times 13) \times 241 \div 2] \div 2 \div 27 = 81.62$ CU. YDS.
ADD FOR INTERSECTION S.R. 56 = $(647.19 + 647.94) \div 2 \div 27 = 23.20$ CU. YDS.
TO GENERAL SUMMARY = Total CU. YDS. = 95 CU. YDS.

ITEM I-9 STONE UNDERDRAINS No. 2

PROJECT LENGTH 440.00 + RETURN LENGTH 66.10 = TOTAL 506.10 LIN. FT.
 $506.10 \div 50 = 10.122$ I-9's REQ'D.
10 x 16 FT. EACH =

TO GENERAL SUMMARY

160 LIN. FT.
160 LIN. FT.

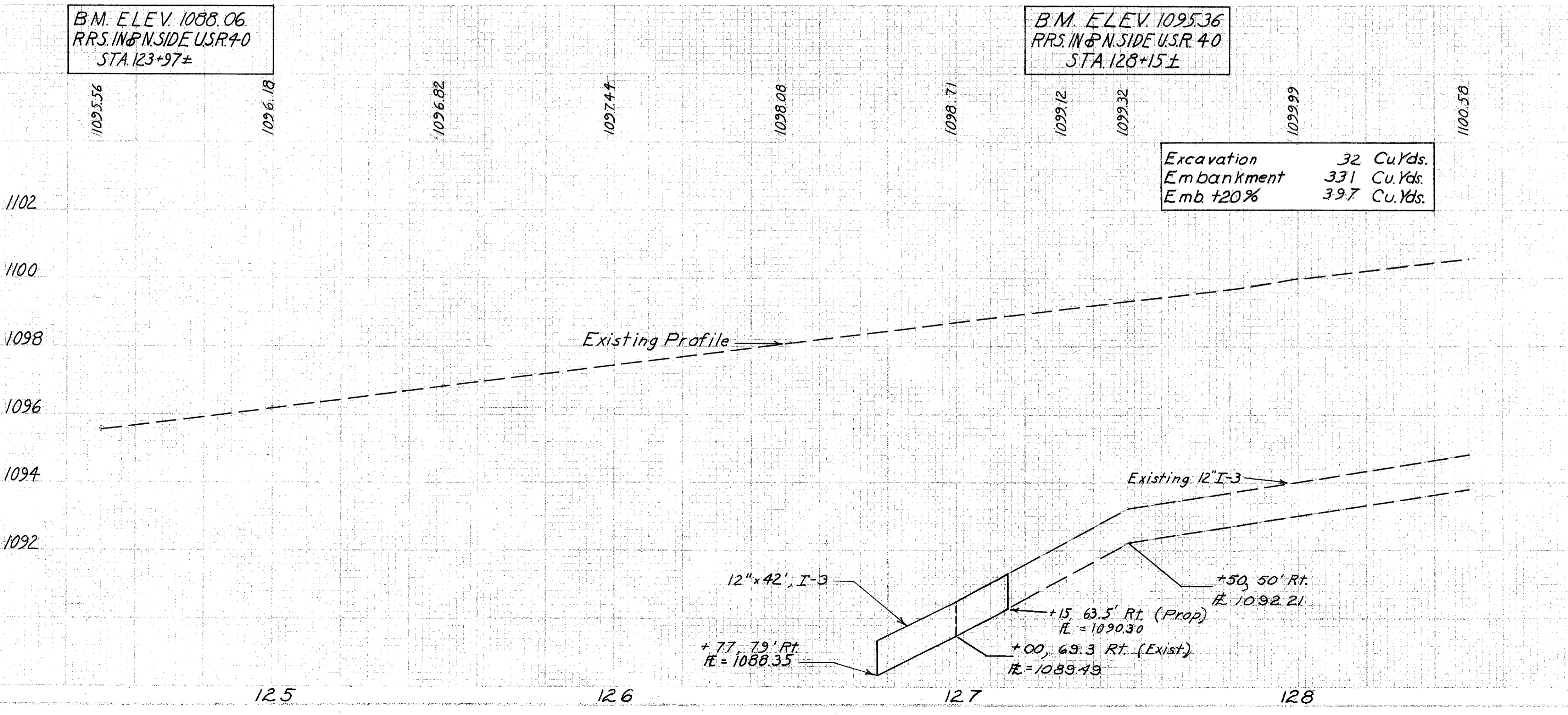
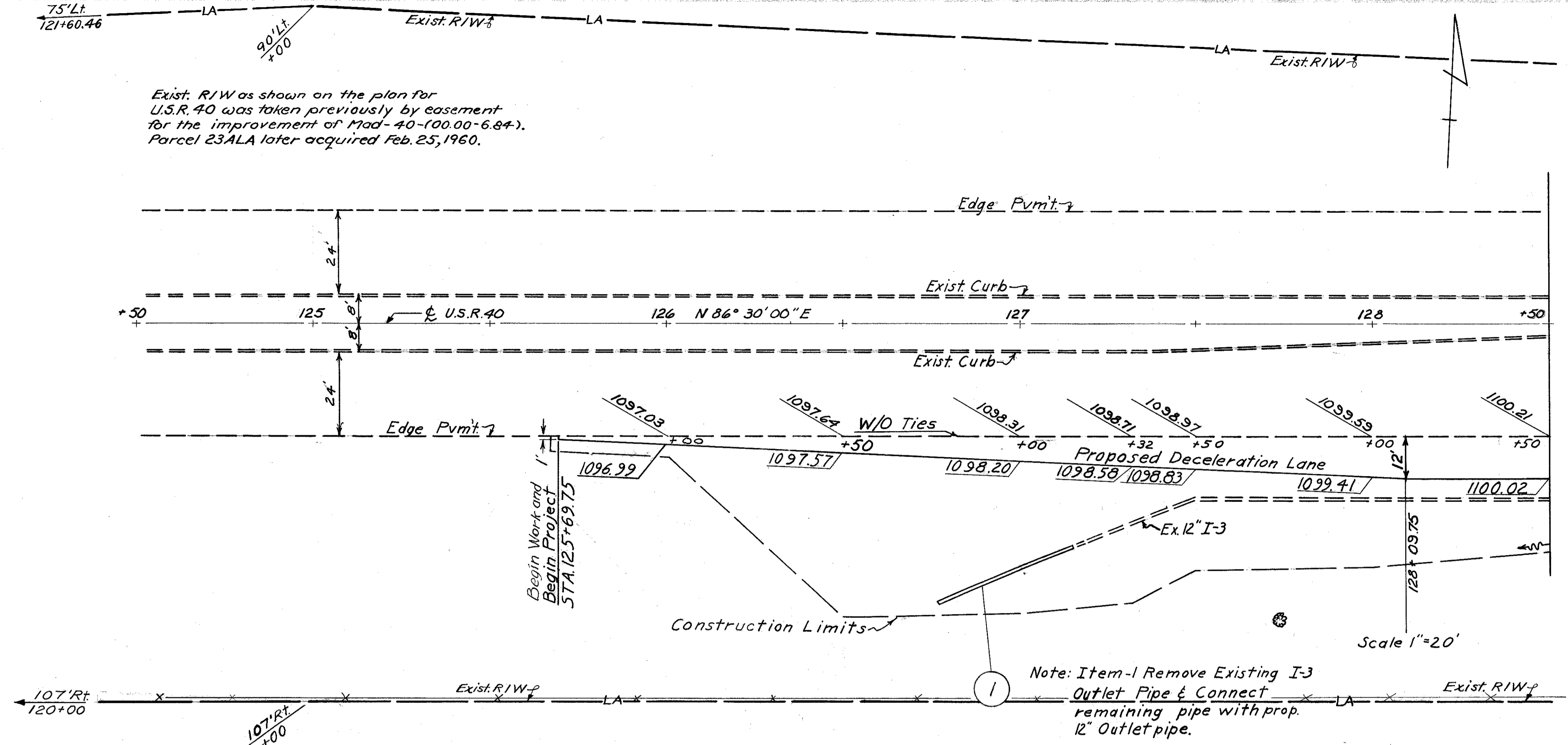
EARTHWORK			
STATION to STATION	EXCAVATION CUBIC YARDS	EMBANKMENT CUBIC YARDS	
124+50 128+50	32	331	
128+50 132+50	210	44	
TOTAL TO SUMMARY	242	375	

L-9 SEEDING & PROTECTION		
STATION to STATION	SEEDING SQUARE YARDS	
124+50 128+50	1298	
128+50 132+50	804	
TOTAL	2102	

GENERAL SUMMARY

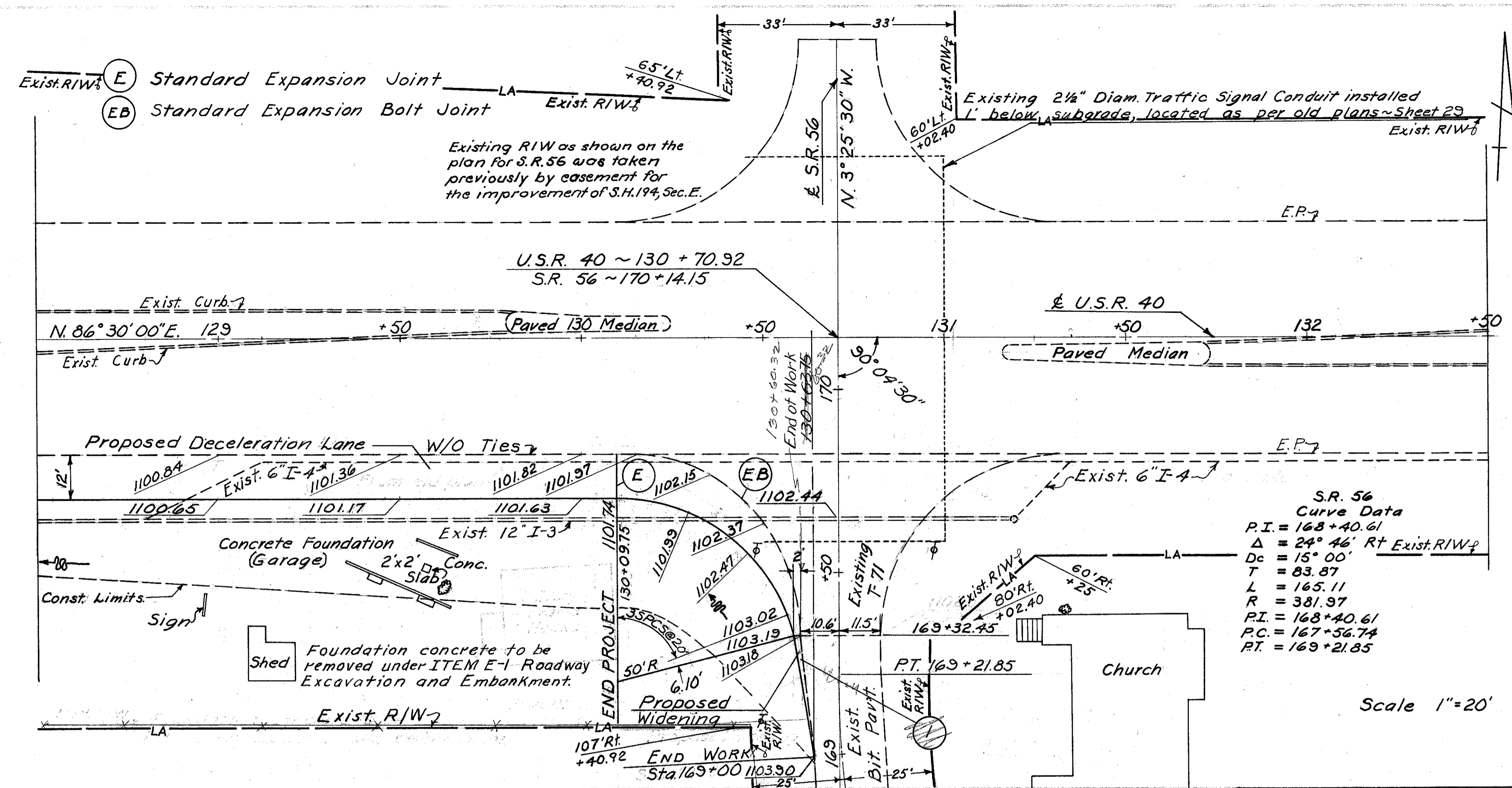
SHEET NUMBER				ITEM	QUANTITY	UNIT	DESCRIPTION
3	4	5	6				
				E-1	242	Cu. Yds.	Roadway Excavation Method "A"
				E-1	375	Cu. Yds.	Embarkment Method "A"
				E-1	512	Sq. Yds.	Compacted Subgrade
				E-II	2	M. Gals.	Water
				L-9	2102	Sq. Yds.	Seeding & Protecting
				L-9	0.19	Ton.	Commercial Fertilizer (12-12-12)
				I-3	42	Lin. Ft.	12" Outlet For Roadway Drainage. Sec. M-6.4 (C)
				E-12	16	Lin. Ft.	Pipe Removed, 15" and Under
				I-9	160	Lin. Ft.	Stone Underdrains No. 2
				T-71	512	Sq. Yds.	9" Reinforced Portland Cement Concrete Pavement
				I-22	95	Cu. Yds.	Subbase

Exist. R/W as shown on the plan for U.S.R. 40 was taken previously by easement for the improvement of Mad-40-(100.00-6.84). Parcel 23ALA later acquired Feb. 25, 1960.



Item	Quantity	Unit
E-12	15"	Lin. Ft.
I-3	42	Rt.
12" Outlet Under	42	Rt.
M-6.4(6)	42	Rt.

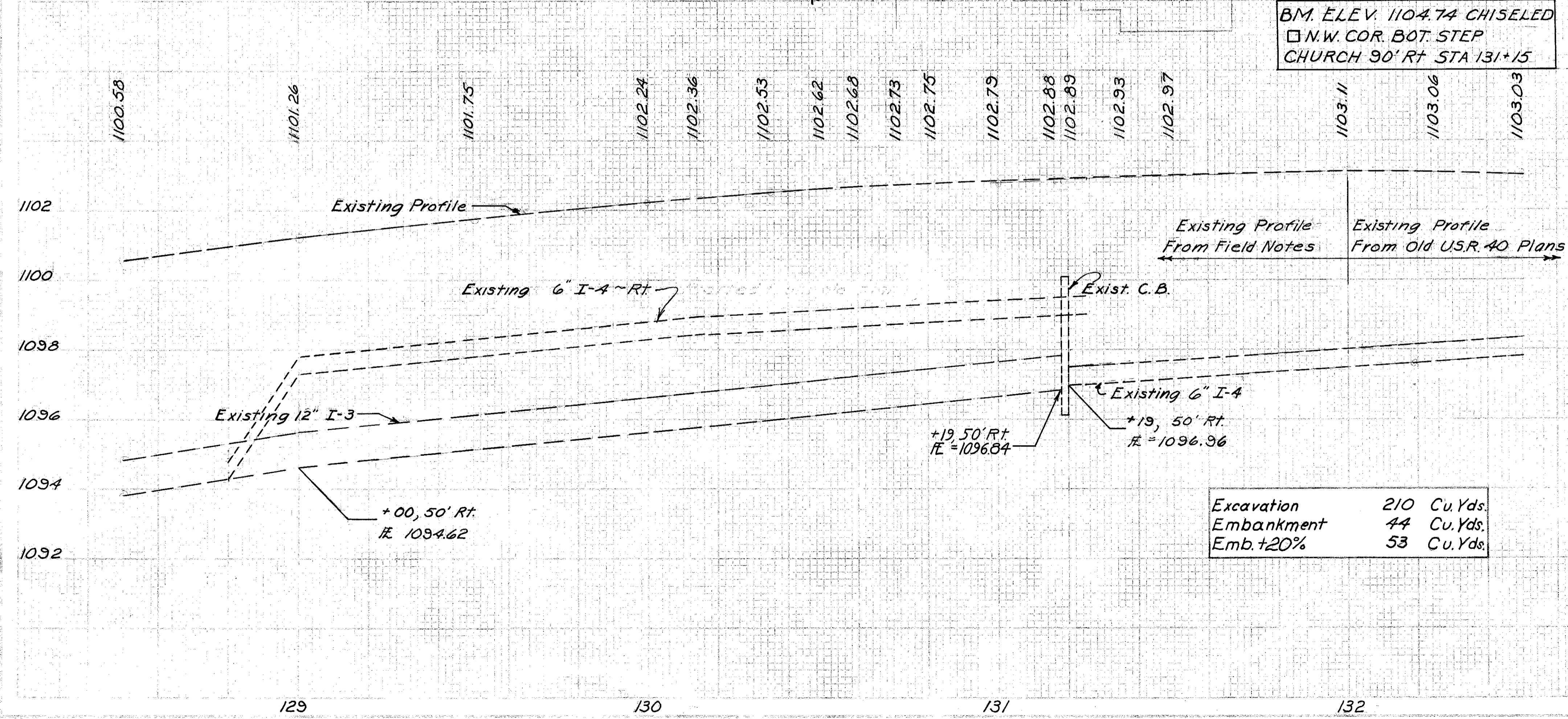
Sta 124+50 to Sta 128+50



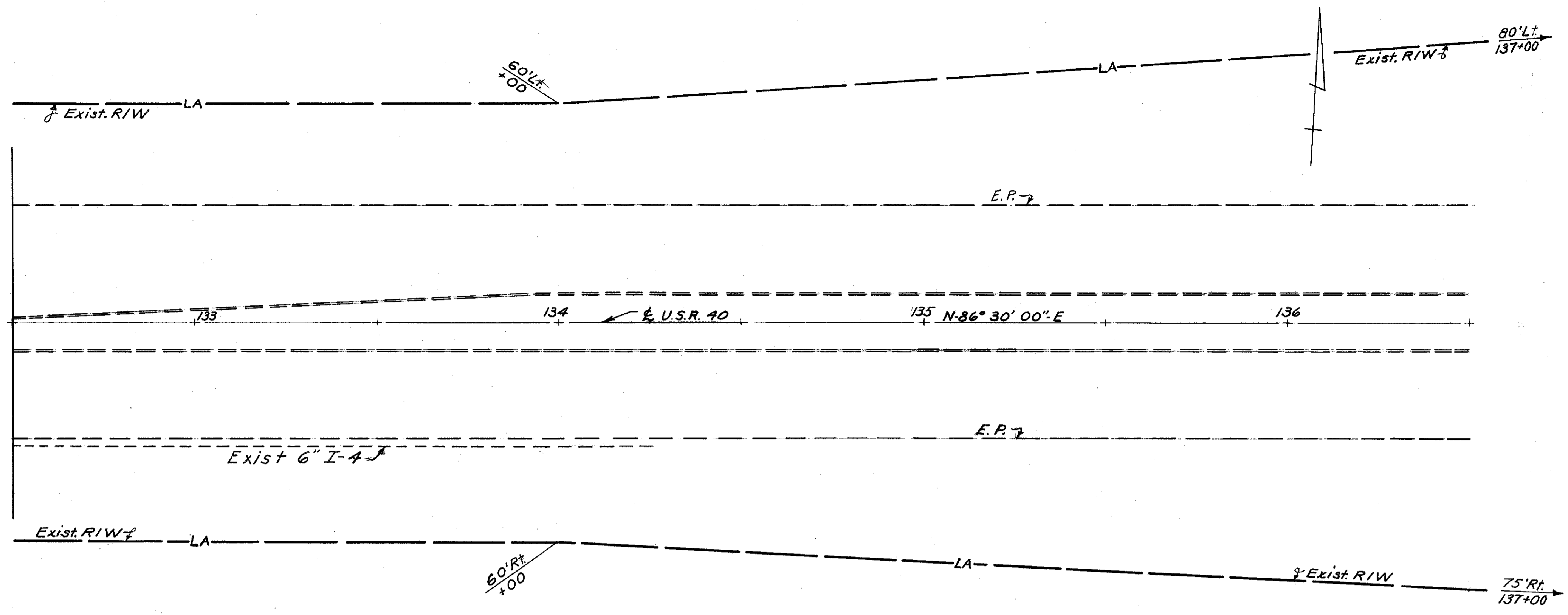
S.R. 56
Curve Data
P.I. = 168+40.61
Δ = 24° 46' Rt
Dc = 15' 00'
T = 83.87
L = 165.11
R = 381.97
P.T. = 168+40.61
P.C. = 167+56.74
R.T. = 169+21.85

Scale 1"=20'

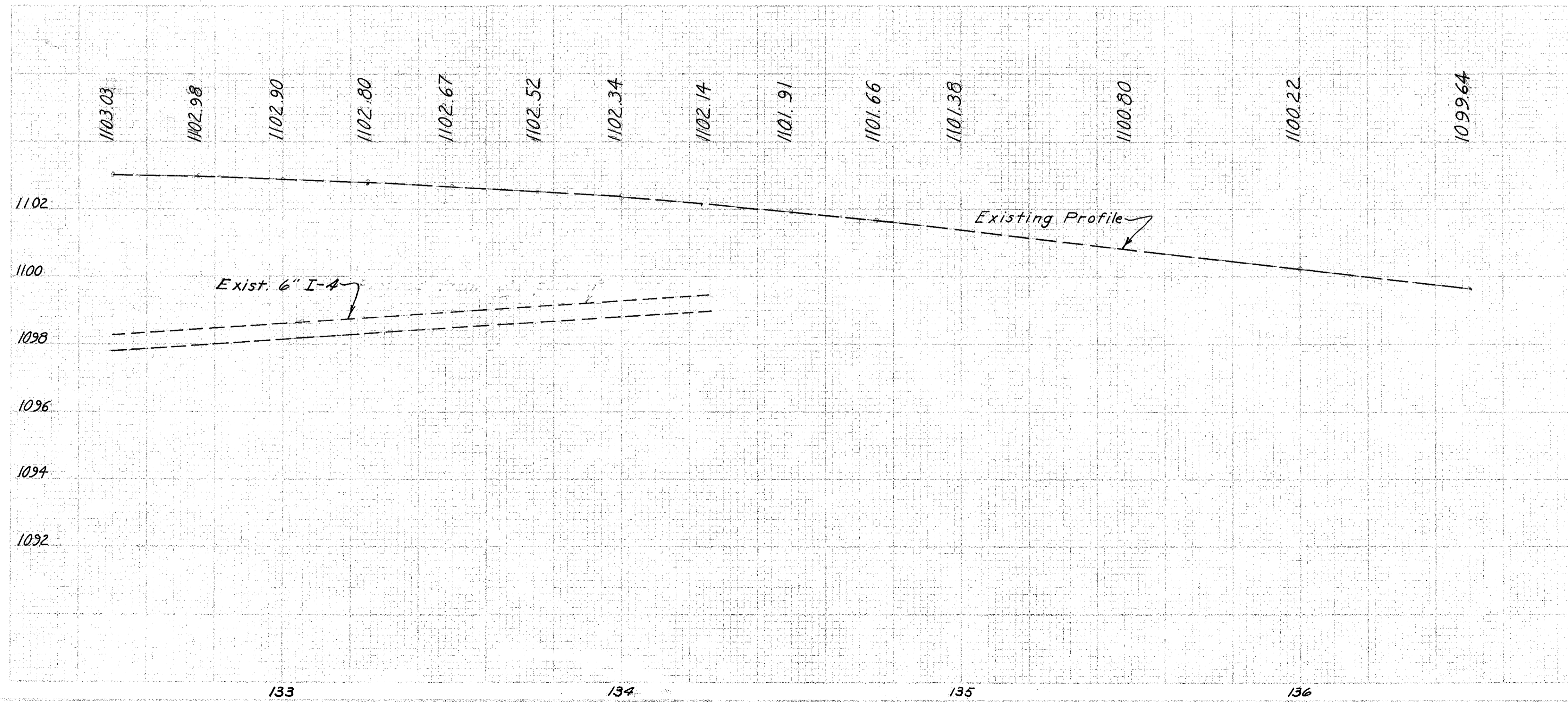
BM. ELEV. 1104.74 CHISELED
N.W. COR. BOT. STEP
CHURCH 90' Rt STA 131+15



Excavation	210	Cu. Yds.
Embankment	44	Cu. Yds.
Emb. +20%	53	Cu. Yds.



Scale 1"=20'



ESTIMATED QUANTITIES

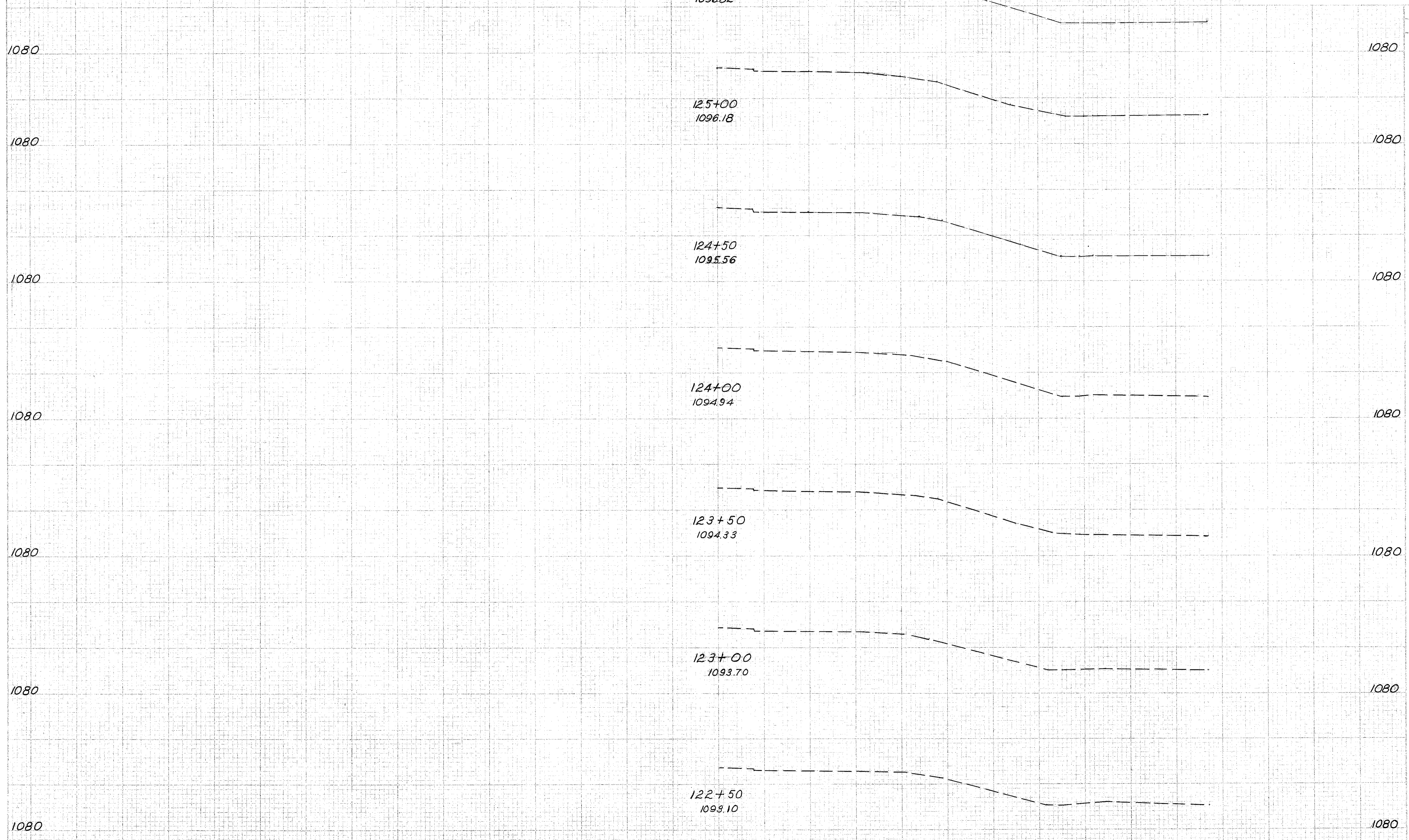
SECTION
 END
 BEGIN

140 120 100 80 60 40 20 0 20 40 60 80 100

NO. 2	OHIO		
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7
10

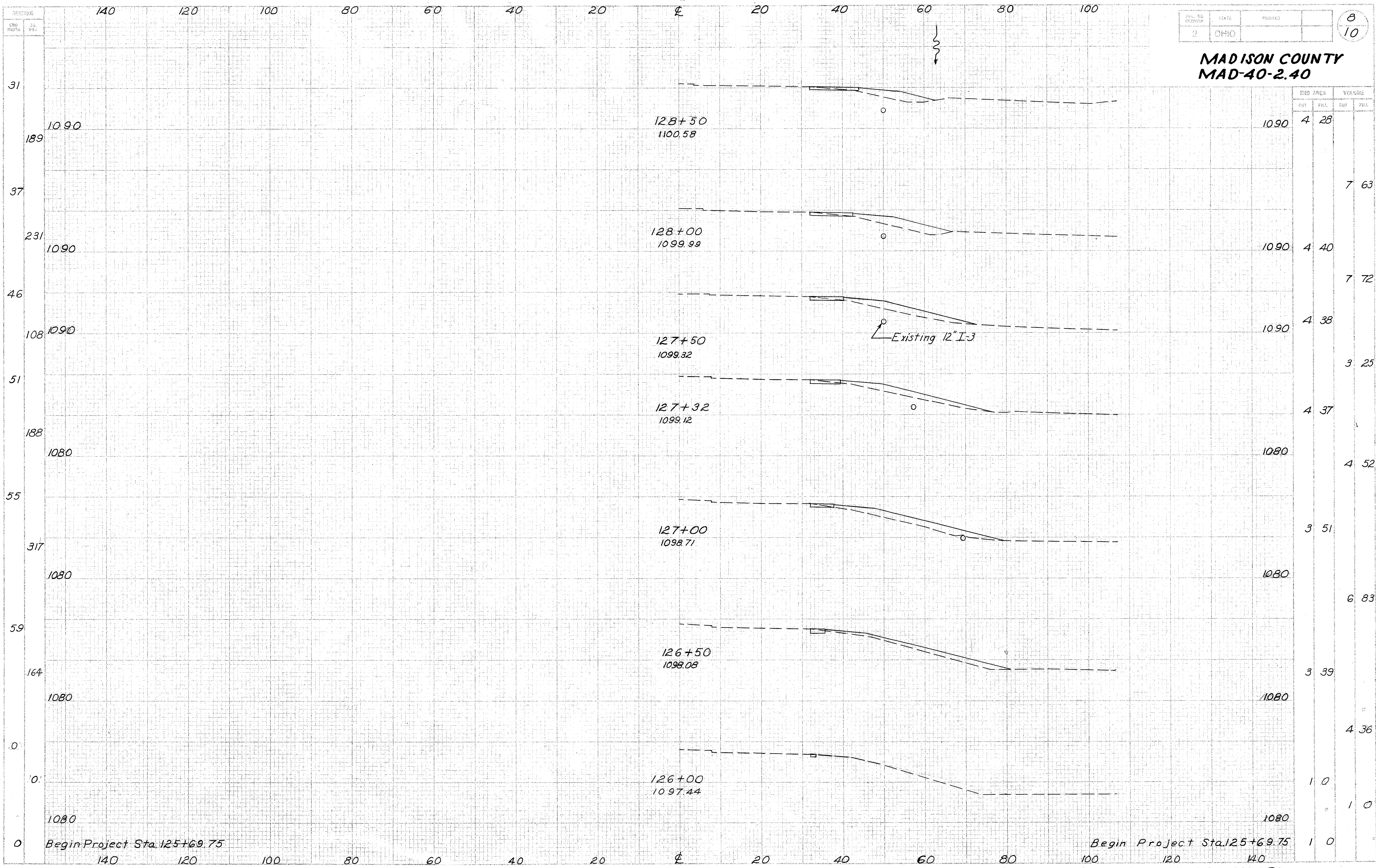
**MADISON COUNTY
 MID-40-2.40**



CROSS AREA		VOLUME	
CUT	FILL	CUT	FILL

Sta. 122+50 to 125+50

**MADISON COUNTY
MAD-40-2.40**



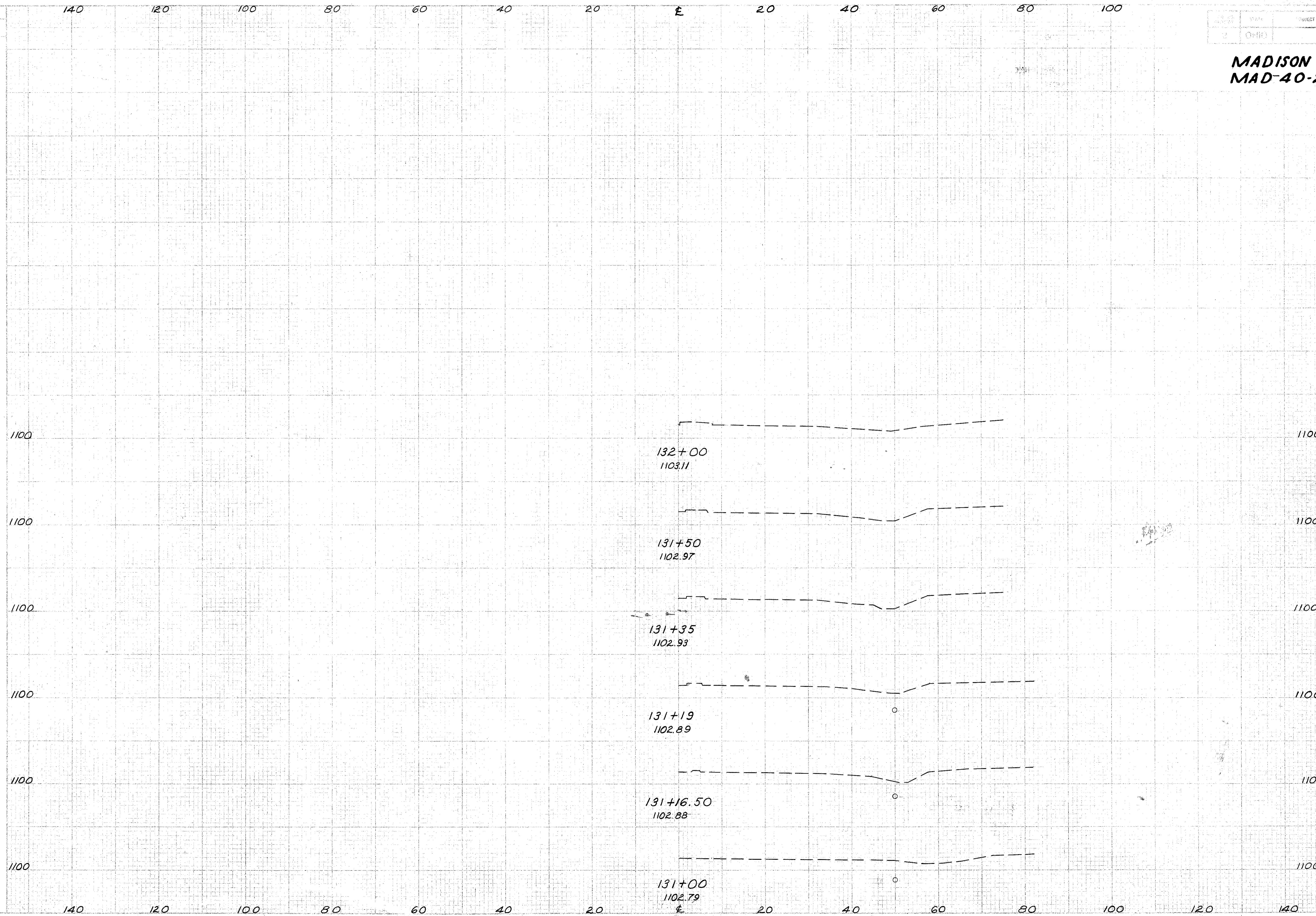
Sta. 126+00 to 128+50

SECTION
NO. 10

DATE: 10/10
PROJECT: 10
10

MADISON COUNTY MAD-40-2.40

NO. 10
10



Sta. 131+00 to 132+00