

STATE OF OHIO DEPARTMENT OF HIGHWAYS

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	STATE

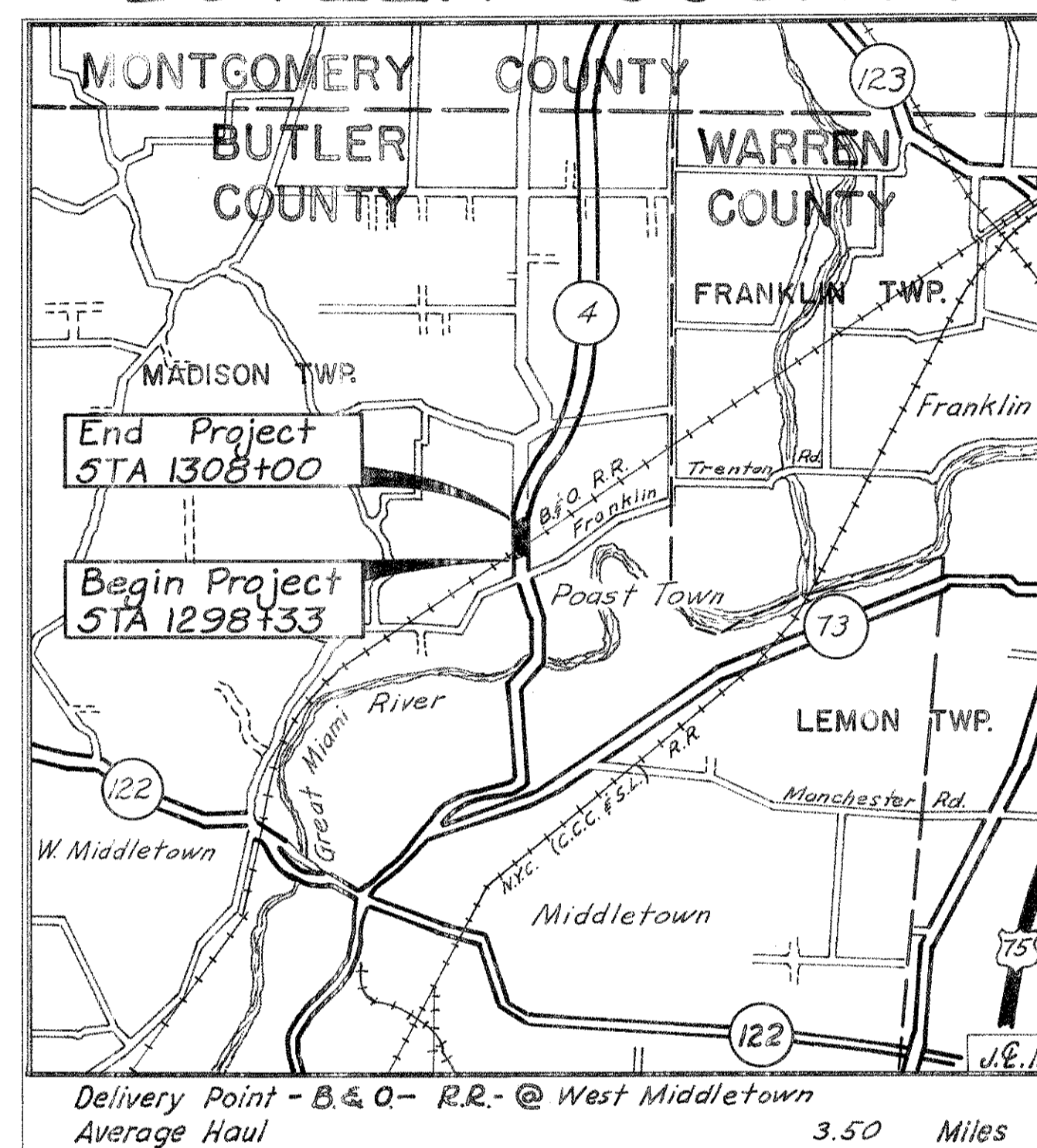
13

AUG 19 1963
RECORD PHOTOGRAPH

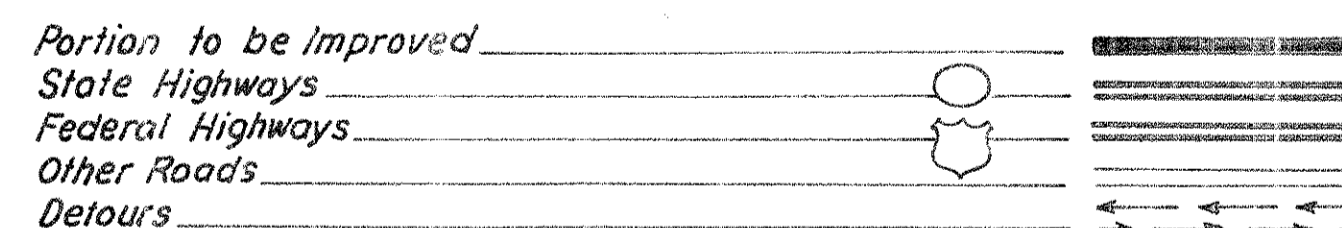
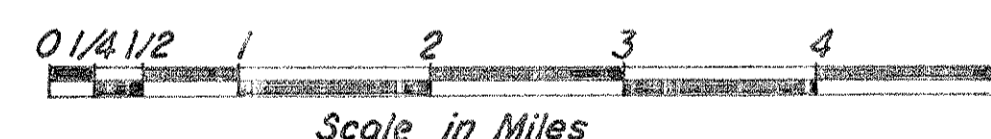
BUTLER COUNTY
BUT-4-24.80

BUT-4-24.80

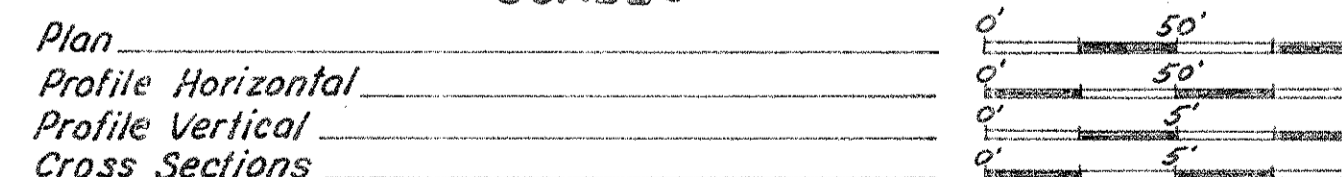
MADISON T'W'P.
BUTLER COUNTY



LOCATION PLAN



SCALES



SUPPLEMENTAL PRINTS OF STANDARD CONSTR. DRAWINGS

RI-1	7-15-58
L-3	4-1-50
L-3-A	4-1-50
I-1	11-15-60
I-8 CB-2-3 & 2-4	2-1-63
I-8 CB 2-5 & 2-6	2-1-63
I-8 CB N ^o 3	2-1-63
I-8 MH N ^o 1-A	2-1-63
I-12	2-1-63
G-7.07	6-1-56
T-35	1-2-56
F-1	2-1-63

CONVENTIONAL SIGNS

Township Line	_____
City or Village Line	_____
Property Line (Fence)	_____
Property Line (No Fence)	_____
Center Line	1. 2. 3
County Line	_____
State Line	_____
Trees	_____
Stumps	_____
Pole Lines	Guy ⚡, Teleph. or Telegr. ⚡, Power ⚡, Light ⚡
Railroad	_____
Guard Rail	New _____, Old _____
Underground Gas Line	_____
Underground Water Line	_____
Underground Pipe Line	_____
Underground Teleph. Cable	_____
Underground Elect. Cable	_____
Manholes	Adjust or Reconstruct to Grade ⓪, Proposed ●
Inlets or Catch Basins	Ditch □, Pavement □
Culverts	Exist. = = = Prop. = = =
Channels	Exist. = = = Prop. = = =
Ditches	Prop. = = =
Highway Signs	_____
Mail Box	_____
Water Meter	_____ WM
Gas Meter	_____ GM
Fire Hydrant & Valve Box	_____
Hedges	_____

INDEX OF SHEETS

Title Sheet	_____	Sheet No.
General Notes & General Summary	_____	1
Plan & Profile	_____	2
Cross Sections	_____	3-4
Miscellaneous Details	_____	5-9
Right of Way Plan	_____	10-12
		13

Sheet No. 13 Revised 1-6-64 C.E.H.

LINE DATA

LENGTH OF PROJECT

Begin Project	Sta. 1298+33.00
End Project	Sta. 1308+00.00
Net Length of Project	967.00 Lin. Ft. or 0.183 Miles.

LENGTH OF WORK

Begin Work	Sta. 1298+33.00
End Work	Sta. 1310+50.00
Length of Work on S.R. 4	1217.00 Lin. Ft.
Add For Retention Basin	1700.00 Lin. Ft.
Net Length of Work	2917.00 Lin. Ft. or 0.552 Miles.

SUPPLEMENTAL	SPECIFICATIONS

FILE No.	Butler County	BUT-4-24.80
Date of Letting	196	
Contract No.		

LIMITED ACCESS
This improvement is especially designed for through traffic and has been declared a limited access highway or freeway except from Station 1298+33 to Station 1300+00 on the Right and from Station 1298+33 to Station 1299+77.48 on the left by action of the Director of Highways in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

1963 SPECIFICATIONS

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: _____
Date: 7-16-63 Division Deputy Director
- Approved: _____
Date: _____ Engineer of Bridges
- Approved: _____
Date: 2-6-63 Engineer of Location & Design
- Approved: _____
Date: 9-6-63 Deputy Director of Design & Construction
- Approved: _____
Date: 9-6-63 Deputy Director of Right-of-Way
- Approved: _____
Date: 9-12-63 Deputy Director of Planning & Programming
- Approved: _____
Date: _____ First Assistant Director
- Approved: _____
Date: 9/12/63 Director of Highways

NORTH

G-7.07 BARRICADES:

The permanent type barricade from the pavement to the R/W line will not be required.

GENERAL NOTES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

BUTLER COUNTY
BUT-4-24.80

FIELD OFFICE:

The contractor shall, in accordance with Sec. 5-0.01(b), provide for the exclusive use of the State's employees, a suitable field office having a minimum of 150 sq. ft. of floor space. The Contractor shall have a telephone installed and maintained in this field office during the construction of this project.

The contractor shall also provide and install wiring and outlets suitable for connecting electric lights and office equipment in the field office and provide 110-volt alternating current to the office during the entire period of construction of this project.

NON-RIGID PAVEMENT REMOVAL

Removal and disposal of existing non-rigid pavement, unless otherwise indicated on these plans, shall be measured and paid for as E-1, Roadway Excavation.

REMOVAL OF EXISTING PIPE:

The removal of all existing pipe drains within the limits of the proposed excavation items shall be included for payment in the unit price bid for the respective excavation items, unless otherwise itemized in the plan.

PLUGGING PIPE:

The up stream ends of all pipe or tile lines intercepted by earthwork operations, structure excavation and where indicated, the ends of pipe lines to be abandoned in place shall be effectively blocked and covered. Broken pieces and portions of pipe or tile shall be removed until a whole undamaged length is encountered. This pipe shall then be blocked with concrete, flat stone or brick laid in mortar or a precast clay or concrete stopper. Payment for the above work shall be included in the unit price bid for Item E-1, Roadway Excavation as per plan.

CONNECTIONS TO EXISTING PIPE:

At places where the plans provide for proposed drainage pipe to be connected to existing pipes, 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.

SEALING OF PIPE JOINTS:

Where connections are made between rigid and flexible pipe sections or between pipe section of different kind or type of end fabrication, whether required by the plans, arising from per missible use of optional materials or encountered in connection to existing facilities, the joint shall be sealed by means of a Class "E" concrete collar having a minimum thickness of 6 inches and a minimum length of 12 inches. Payment for sealing as described above shall be included in the unit price bid for the pertinent pipe item.

MAINTENANCE OF SEWER FLOWS:

The Contractor shall conduct his operations so as to maintain at all times sewer flows through existing facilities to remain in place and through existing facilities to be replaced until new facilities are completed and placed in use.

Payment for any additional costs involved in maintaining these flows by pumping or by other means approved by the Engineer shall be included in the unit price bid for the respective pipe items.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS:

The rounded corners shown on standard Drawing RT-1 apply to all cross sections even though otherwise shown on the plans.

UTILITIES:

The Contractor shall notify at least 48 hours before breaking ground all Public Service Corporation having wire, poles, pipe, conduits, manholes or other structures that may be affected by this operation, including all structures which are affected and not shown on these plans. Any and all work required for public or private utilities will be done by and at the expense of their respective owners, unless otherwise shown on these plans.

EROSION PROTECTION AT CULVERTS AND OTHER OUTLETS:

Erosion protection, such as Paved Gutters, Dump Rock Channel Protection, etc, where provided in the plan at Structures and other pipe outlets, shall be placed immediately after installation of the pipe or structure.

MANHOLES, CATCH BASINS, OR INLETS ABANDONED:

Unless otherwise noted on the Plans, all existing pipes shall be connected through the manhole, catch basin, or inlet to be abandoned or outlet into the proposed facilities as directed by the Engineer.

Any adjacent paved gutter, or paved erosion control facility shall be considered part of the existing catch basin or inlet and removed under Item I-16.

The cost of the above and any additional pipe necessary to complete this Item shall be included in the Unit Price Bid for Item I-16, Catch Basins, Abandoned, as per plan.

SEEDING:

Quantities for seeding are calculated for the soil areas between the work limits, as shown on the cross sections.

SEEDING FORMULA:

The following seed mixture shall, in lieu of the mixtures listed in Section L-9.11, be used throughout the limits of this project.

- 20% Kentucky Blue Grass (Poa Pratensis.)
- 40% Kentucky 31, Fescue (Festuca Elatior Var. Ky. 31.)
- 20% Creeping Red Fescue (Festuca Rubra)
- 20% Red Top (Agrostis Alba.)

MAINTENANCE OF TRAFFIC:

This project shall be constructed under traffic and the Contractor shall plan and conduct his operations so that two way traffic shall be maintained at all times to the satisfaction of the Engineer.

The lump sum bid for Item I-3, Maintaining traffic, includes all items involved in maintaining traffic through out the life of the contract.

ELEVATION DATUM:

All elevations are based on U.S.C.S. datum.

SHEETING:

Sheeting or method approved by the Engineer for retaining a vertical cut shall be used to keep the trench for the proposed work within the construction limits as shown on the cross sections and to protect building adjacent to the work.

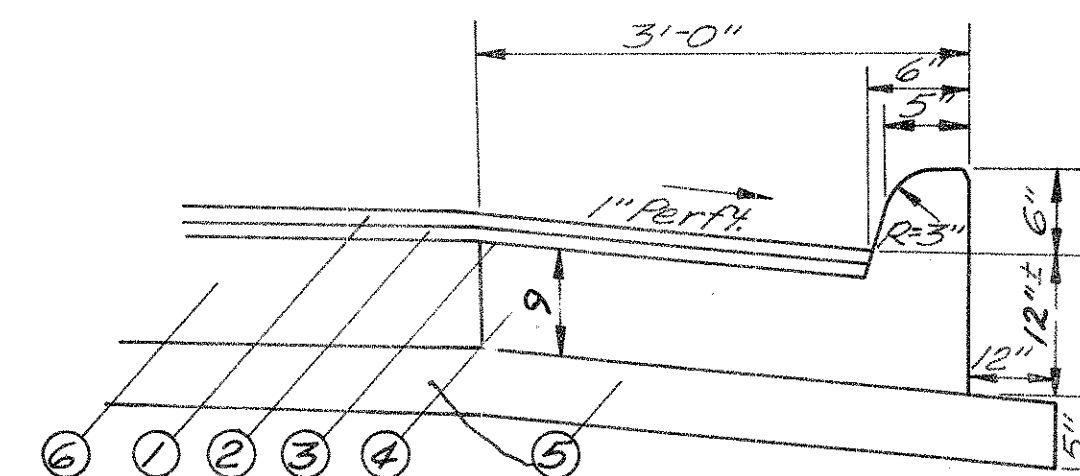
The above shall be paid for at the contract lump sum bid for Item E-2 Cofferdams, cribs and sheeting.

CONSTRUCTION LAYOUT STAKES:

See note in proposal describing the work included in this Lump Sum pay item.

L-9 COMMERCIAL FERTILIZER

All areas to be seeded under Item L-9 shall have commercial fertilizer 12-12-12 applied at the rate of 20 pounds per 1000 Sq. Ft.



Thicknesses shown are 'designed' thicknesses as described in Section T-35.01 and B-35.01.

STANDARD TYPE 2 COMBINATION CURB & GUTTER MODIFIED

- # ① T-35 1 1/2" Asphaltic Concrete Surface Course Type "A" (70-85).
- # ② B-35 1 1/2" Asphaltic Concrete Leveling Course (70-85).
- ③ T-30 Bituminous Tack Coat, @ 0.10 gal. per Sq. Yd.
- ④ I-12 Standard Type 2 Combination Curb and Gutter modified as per plan.
- ⑤ I-22 5" Subbase.
- ⑥ B-70 7" Concrete Base Course.

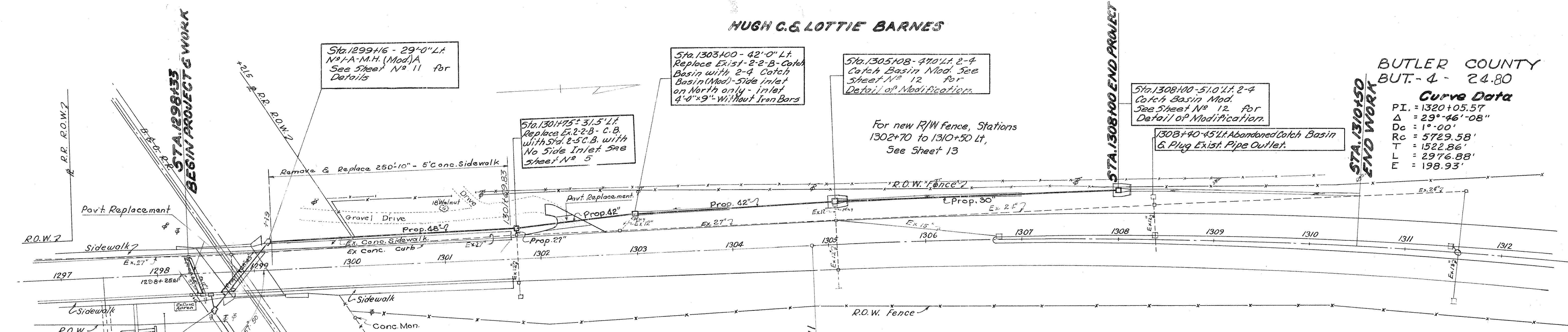
- 1/2" T-35, 1/2" B-35, T-30, 7" B-70, 5" I-22
- 2" T-35, 7" B-19

GENERAL SUMMARY

ITEM	FROM SHEET N ^o				TOTAL UNIT	DESCRIPTION
	2	3	6	7		
E-1			515		515 Cu.Yds.	Roadway Excavation Method A. as per plan.
E-8				100	100 Sq.Yds.	Removal and Disposal of Existing Pavement.
E-8		1259		310	1569 Sq. Ft.	Removal and Disposal of Existing Sidewalk.
E-8				26	26 Lin.Ft.	Removal and Disposal of Existing Curb & Gutter.
E-11					0.2 M-Gal.	Water
I-13		1259		310	1569 Sq. Ft.	4" Concrete sidewalk.
I-25	780*				780 Lin.Ft.	Woven Wire Fence, Type 39
L-9					2615 Sq.Yds.	Seeding and Protecting as per plan.
L-9					0.24 Tons	Commercial Fertilizer (12-12-12).
E-2	Lump				Lump Lump	Cofferdams, cribs and sheeting
E-3			4010		4010 Cu.Yds.	Channel Excavation.
I-1				45	45 Lin.Ft.	24" Pipe Class J-1
I-1		292			292 Lin.Ft.	30" Pipe Class B-1
I-1				14	14 Lin. Ft	36" Pipe Class B-1
I-1		333			333 Lin.Ft.	42" Pipe Class B-1
I-1		259			259 Lin.Ft.	48" Pipe Class B-1
I-1		228			228 Lin.Ft.	60" Pipe Class B-1
I-1				89	89 Lin.Ft.	68" x 43" Reinforced Elliptical Concrete Pipe Class B-1 - Sec. M-6.7 (a)
I-1		2			2 Lin. Ft.	27" Pipe Class B-1
I-2		2.2			2.2 Cu. Yd.	Masonry
I-8				2	2 Each	Standard N ^o 3 Catch Basin Modified as per plan.
I-8		3			3 Each	Standard N ^o 2-4 Catch Basin Modified as per plan.
I-8		1			1 Each	Standard N ^o 2-5 Catch Basin Modified as per plan.
I-8				2	2 Each	Standard N ^o 1-A Manhole Modified as per plan.
I-16		1			2 Each	Catch Basins Abandoned, as per plan
I-10		52			52 Sq.Yds.	Riprap 6" reinforced concrete slab as per plan.
B-35				5	5 Cu. Yds.	Asphaltic Concrete Leveling Course (70-85).
B-70				100	100 Sq. Yds.	7" Portland Cement Concrete Base.
B-19		8			8 Cu. Yd	Aggregate Base Course.
T-30				11	11 Gals.	Bituminous Tack Coat. Sec. M-5.5, M5-2 or R5-1 or Sec. M-5.2, RC-1 or RC-2 as per Sec. T-30.02.
T-35		2			5 Cu. Yds.	Asphaltic Concrete Surface Course Type A (70-85).
I-12				44	44 Lin. Ft.	Standard Type 2 Combined Curb and Gutter modified as per plan.
I-22				21	21 Cu. Yds.	Subbase.
I-3	Lump				Lump Lump	Maintaining Traffic.
	Lump				Lump Lump	Construction Lay Out Stakes.

PAVEMENT

Curve Data
 P.I. = 1320+05.57
 Δ = 29°-46'-08"
 Dc = 1°-00'
 Rc = 5729.58'
 T = 1522.86'
 L = 2976.88'
 E = 198.93'



Sta. 1299+16 - 29'-0" Lt.
 No. 1-A-M.H. (Mod.) A
 See Sheet No. 11 for
 Details

Sta. 1303+00 - 42'-0" Lt.
 Replace Ex. 2-2-B-Catch
 Basin with 2-4 Catch
 Basin (Mod.) Side Inlet
 on North only - Inlet
 4'-0" x 9" Without Iron Bars

Sta. 1305+08 - 47'-0" Lt. 2-4
 Catch Basin Mod. See
 Sheet No. 12 for
 Detail of Modification.

Sta. 1308+00 - 51'-0" Lt. 2-4
 Catch Basin Mod.
 See Sheet No. 12 for
 Detail of Modification.

1308+40 - 45' Lt. Abandoned Catch Basin
 & Plug Ex. Pipe Outlet.

For new R/W Fence, Stations
 1302+70 to 1310+50 Lt.,
 See Sheet 13

Sta. 1301+75 - 31'-5" Lt.
 Replace Ex. 2-2-B-C.B.
 with 5' x 8' x 5' C.B. with
 No Side Inlet See
 Sheet No. 5

2" Asphaltic Conc. Surf.
 Course - T-35
 7" Aggregate Base Course - B-19
DRIVE PAVEMENT REPLACEMENT.
 Estimated - 39 Sq. Yds.

HELEN F. BUFFINGTON

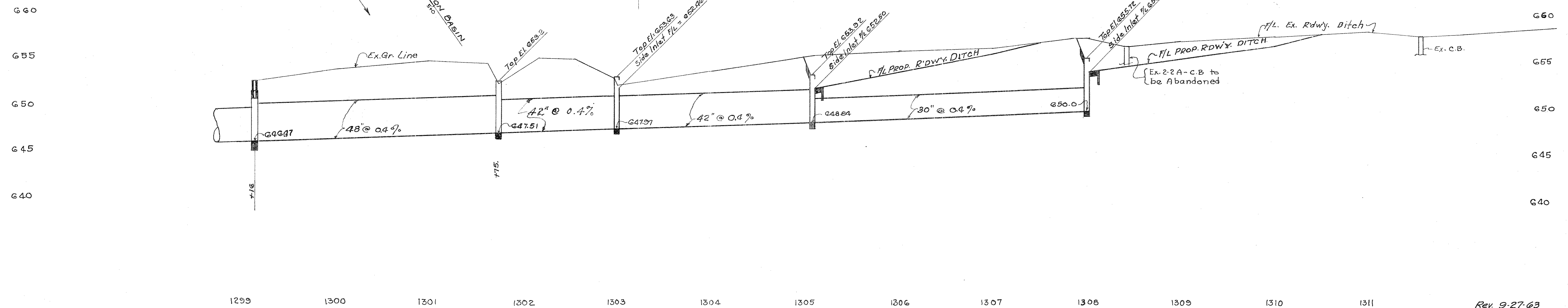
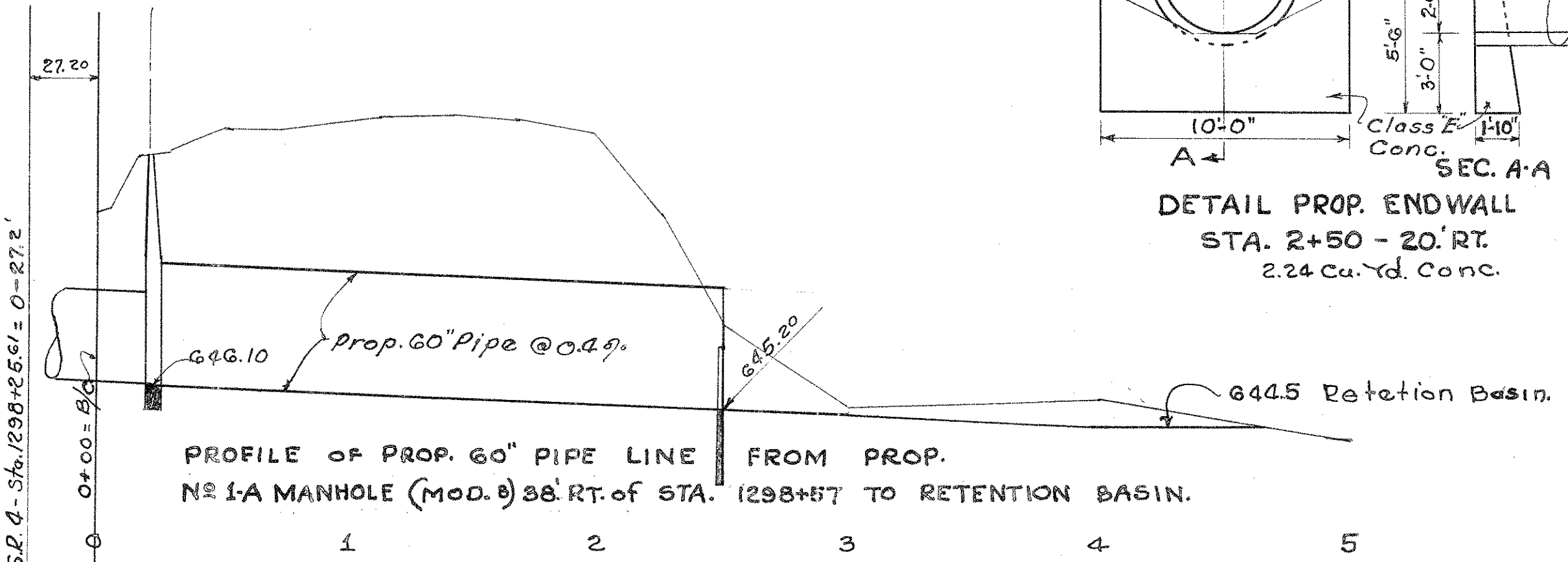
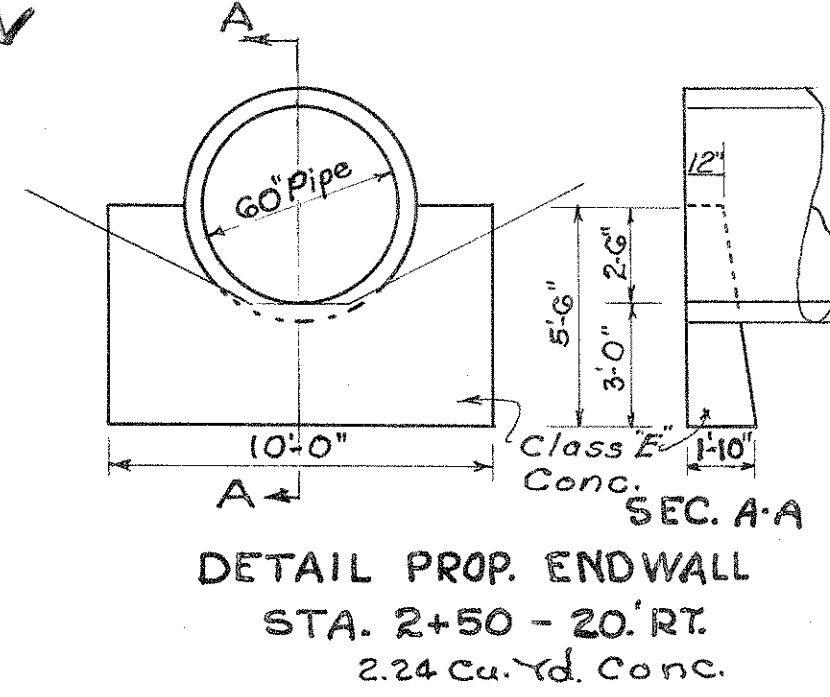
ESTIMATED QUANTITIES-THIS SHEET

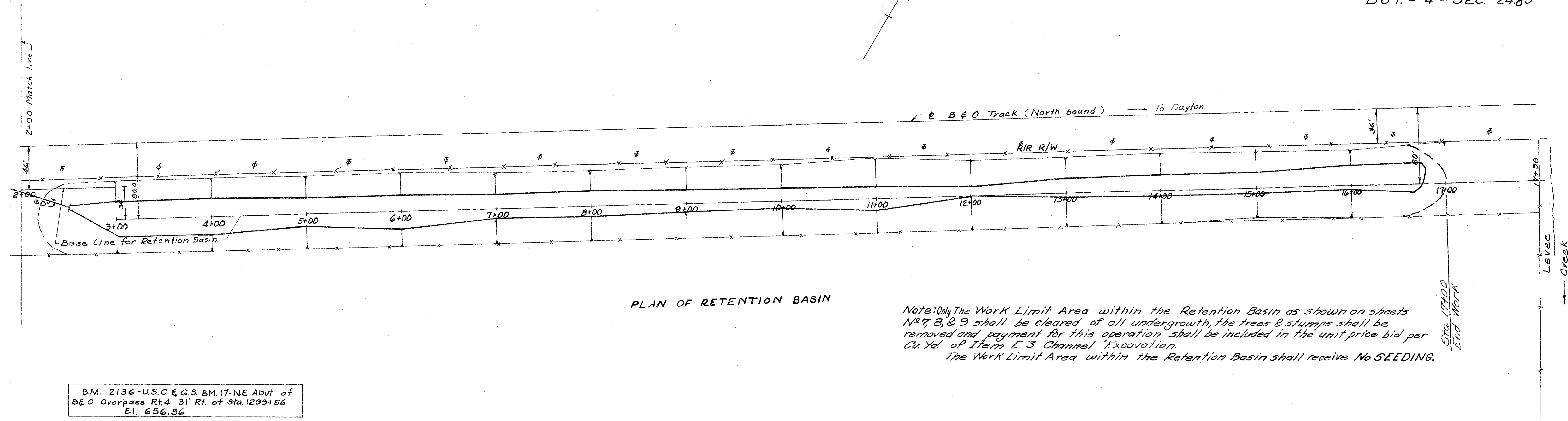
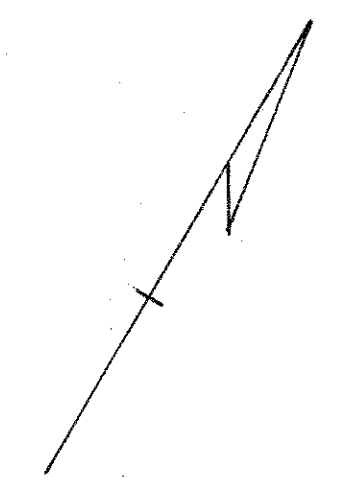
Removal & Disposal Ex. Sidewalk	Item E-8	1259 Sq. Ft.
Sidewalk	Item I-13	1259 Sq. Ft.
Std. No. 2-4 Catch Basin (Modified)	Item I-8	3 Each
Std. No. 2-5 Catch Basin	Item I-8	1 Each
Catch Basins Abandoned	Item I-16	1 Each
Masonry Class E conc.	Item I-2	2.24 Cu. Yd.
27" Pipe Class B-1	Item I-1	2 Lin. Ft.
30" Pipe Class B-1	Item I-1	292 Lin. Ft.
42" Pipe Class B-1	Item I-1	333 Lin. Ft.
48" Pipe Class B-1	Item I-1	259 Lin. Ft.
60" Pipe Class B-1	Item I-1	228 Lin. Ft.
2" Asphaltic Conc. Surf. Course Type A (70-85)	Item T-35	2.2 Cu. Yd.
7" Aggregate Base Course	Item B-19	7.5 Cu. Yd.
Riprap - 6" Reinf. Conc. paving As per plan.	Item I-10	52 Sq. Yd.

Sta. 1298+57 - 58'-0" Lt.
 No. 1-A-M.H. (Mod.) B See
 Sheet No. 11 for Details

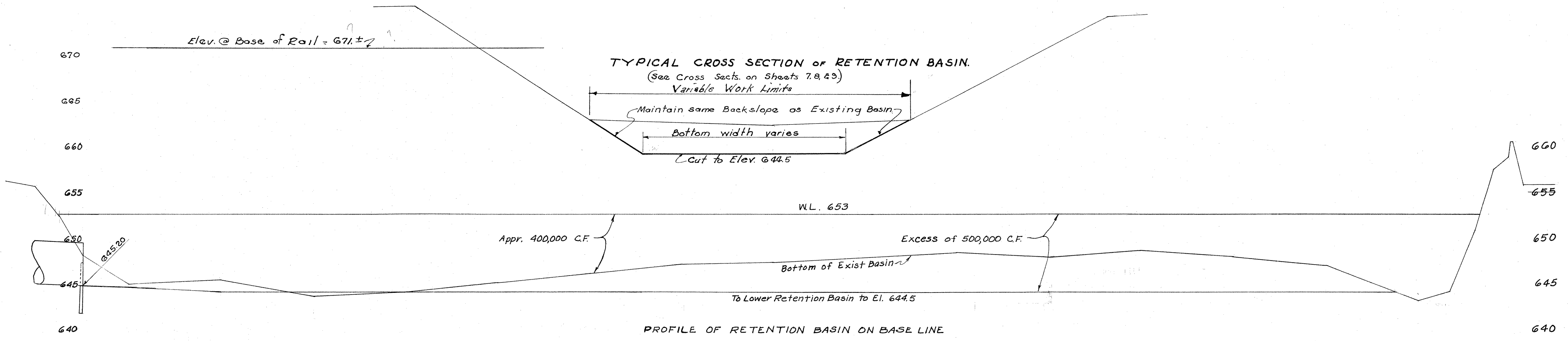
BM-2136 - U.S.C. & G.S. BM. 17-NE. Abut. of
 B&O. overpass Rt. 4. 31' Rt. of Sta. 1299+56
 Elev. 656.56

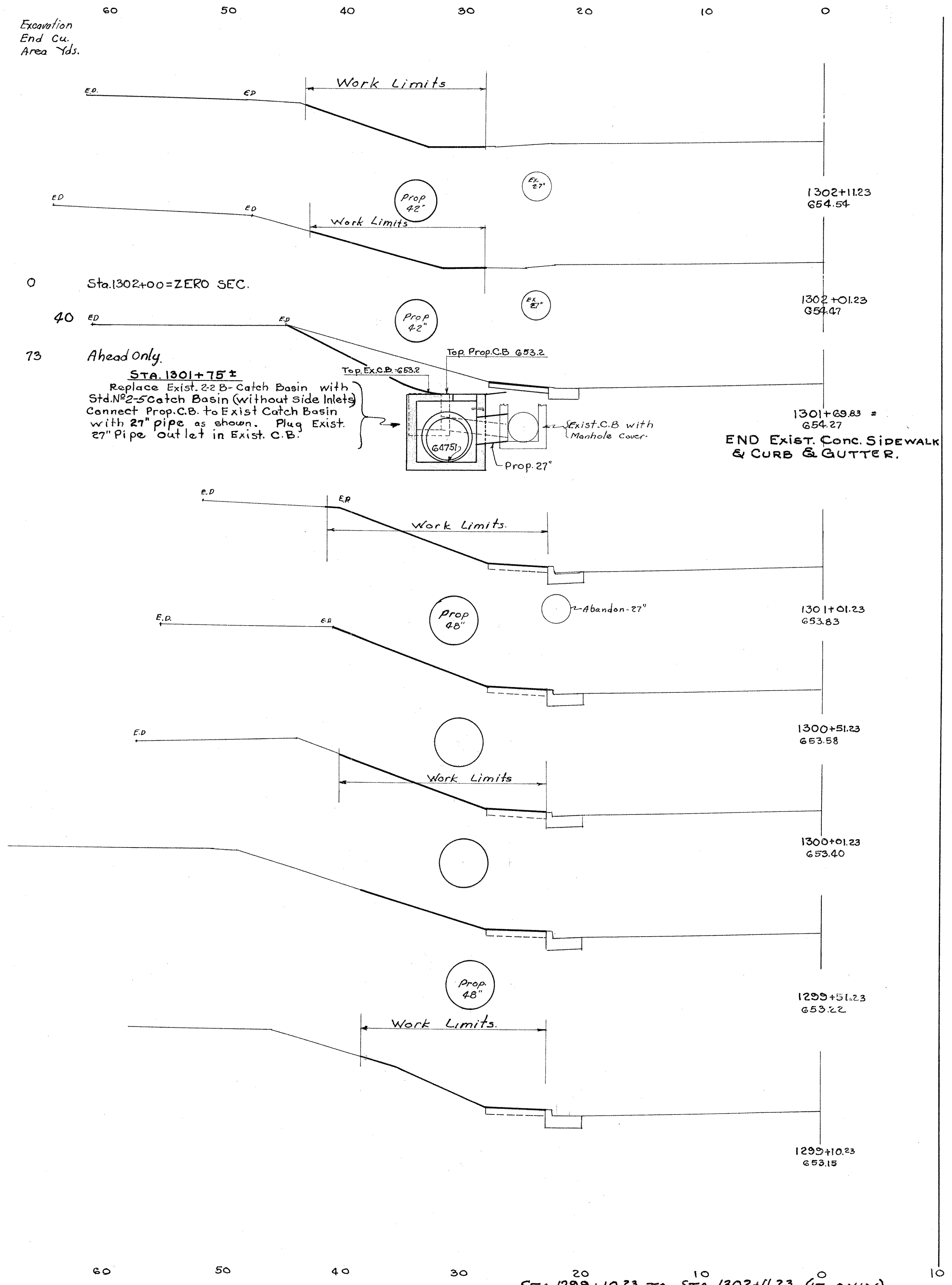
UTILITY OWNERSHIP.
 Cincinnati Gas & Electric Co
 P.O. Box 960, Cincinnati 1, Ohio
 Ohio Bell Telephone Co
 3233 Woodman Drive, Dayton, Ohio.

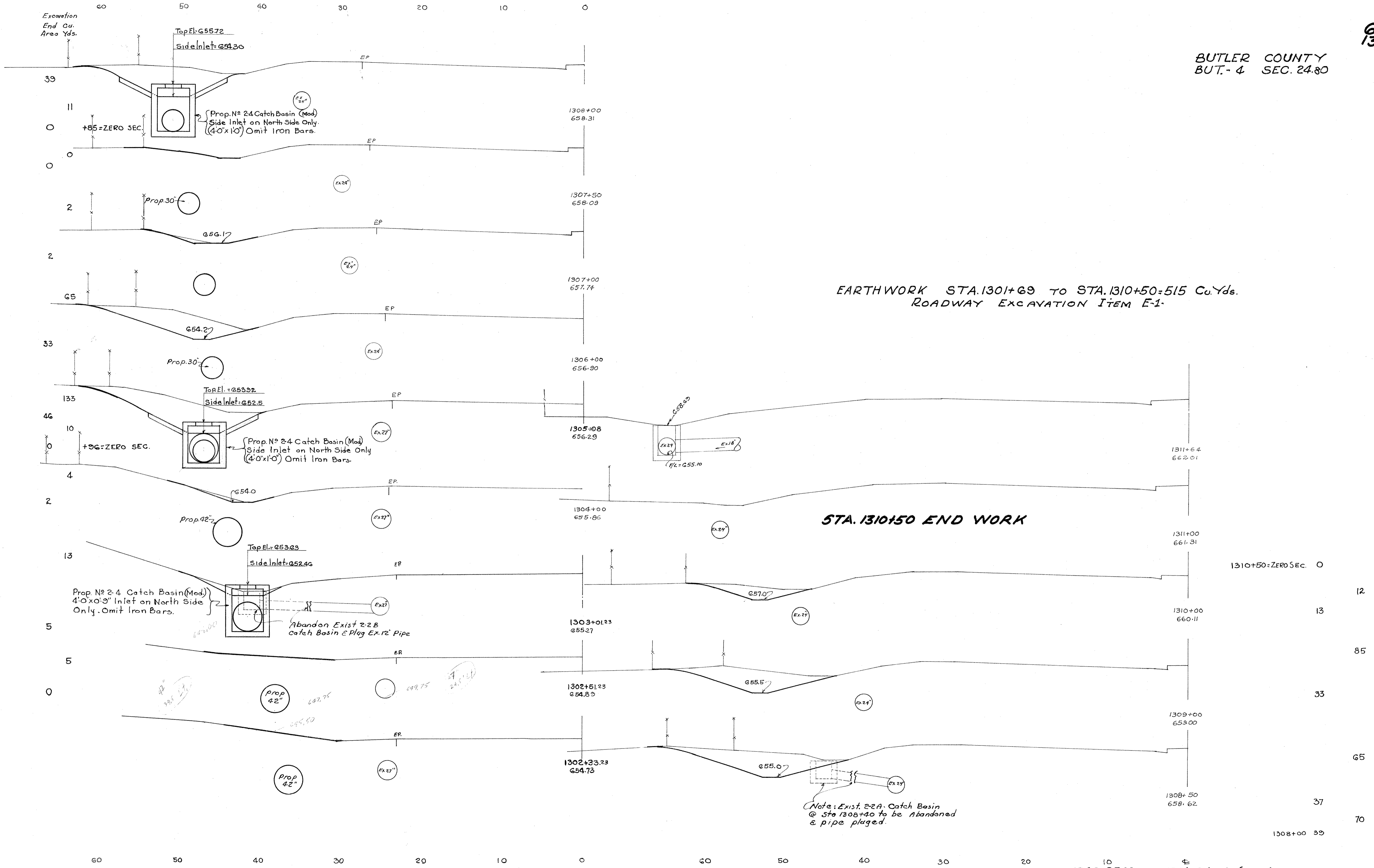




B.M. 2136 - U.S.C & G.S. B.M. 17-NE Abut of
B & O Overpass Rt. 4 31'-Rt. of Sta. 1299+56
El. 656.56



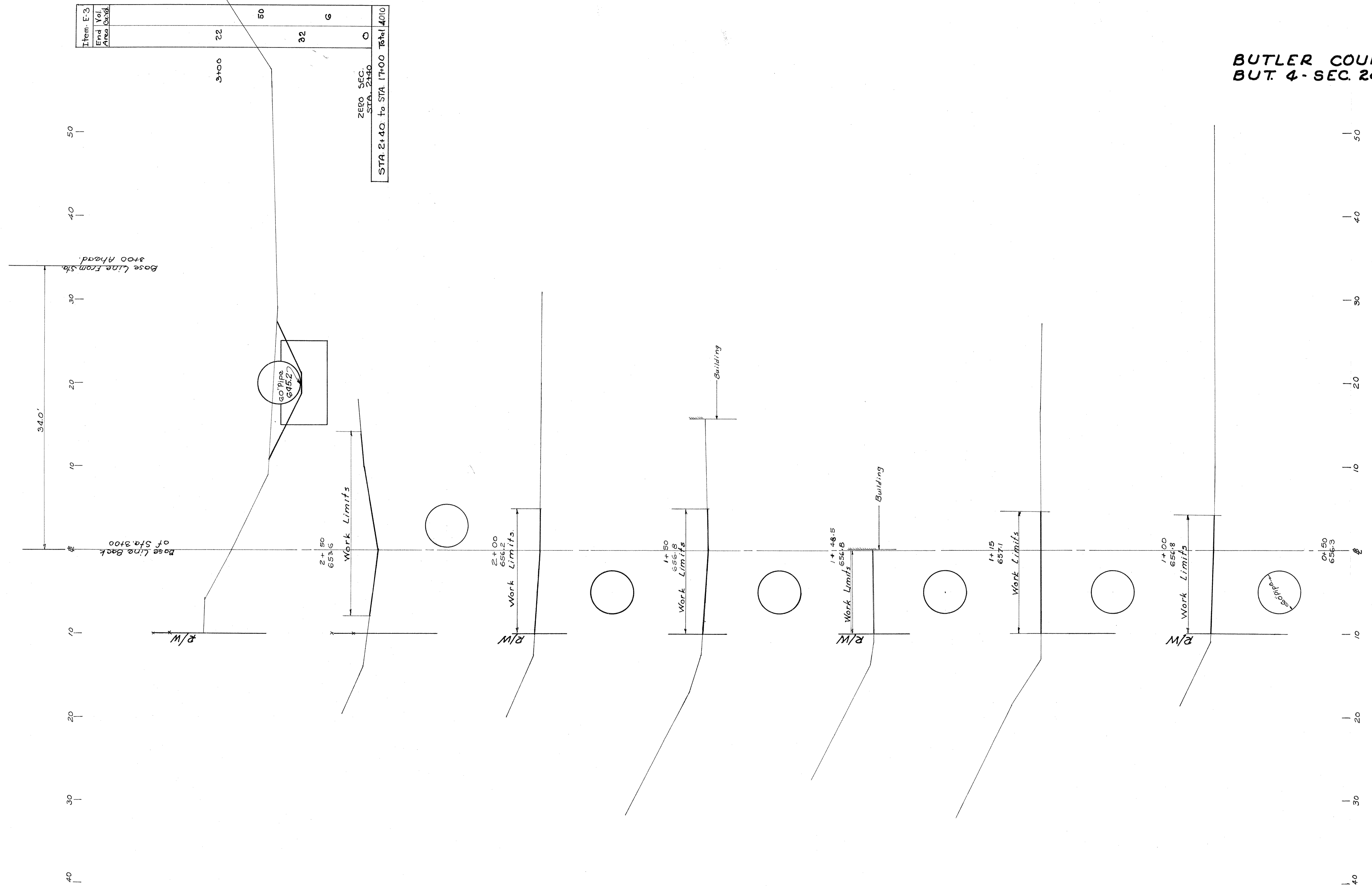




EARTHWORK STA. 1301+69 TO STA. 1310+50=515 Cu. Yds.
ROADWAY EXCAVATION ITEM E-1.

STA. 1310+50 END WORK

Note: Exist 2-2 A Catch Basin @ Sta 1308+40 to be Abandoned & pipe plugged.

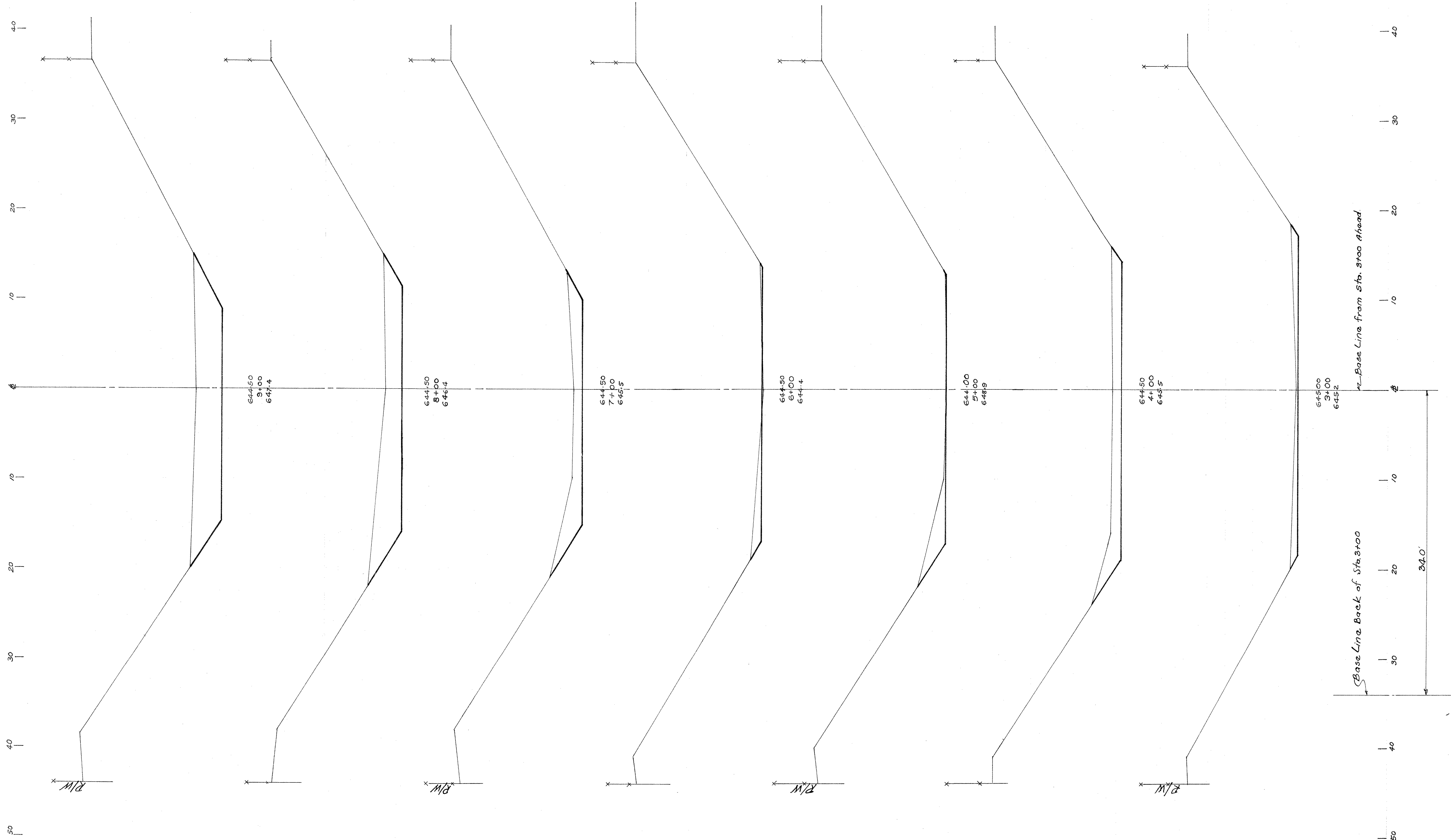


RETENTION BASIN CROSS-SECTIONS - STA 0+50 to 2+50

Item E-3	End	Vol	Area	Cu/Yd
	10+00			357
	93			315
	77			222
	43			96
	9			38
	12			107
	46			126
	22			

BUTLER COUNTY
BUT.-4-SEC. 24.80

130

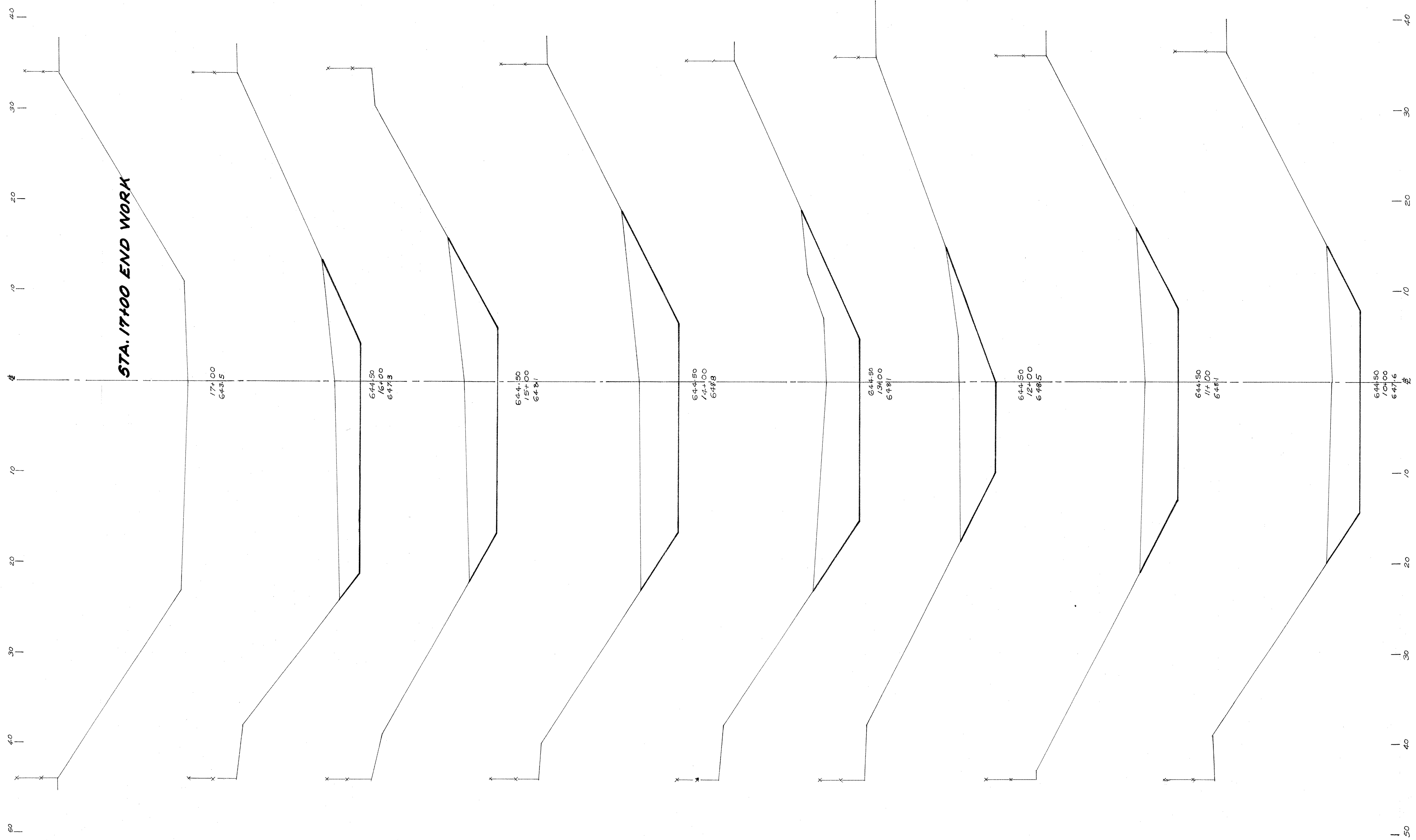


RETENTION BASIN CROSS SECTIONS STA 3+00 TO 3+00

Item E-3	End Area	Vol	Area	Vol	Area	Vol	Area	Vol	Area	Vol	Area	Vol	Area	Vol	Area										
	sq. ft.	cu. yd.	sq. ft.	cu. yd.	sq. ft.	cu. yd.	sq. ft.	cu. yd.	sq. ft.	cu. yd.	sq. ft.	cu. yd.	sq. ft.	cu. yd.											
	0		159		86		367		112		478		146		517		404		370		115	398		10+00	100

BUTLER COUNTY
BUT-4-SEC. 24.80

139

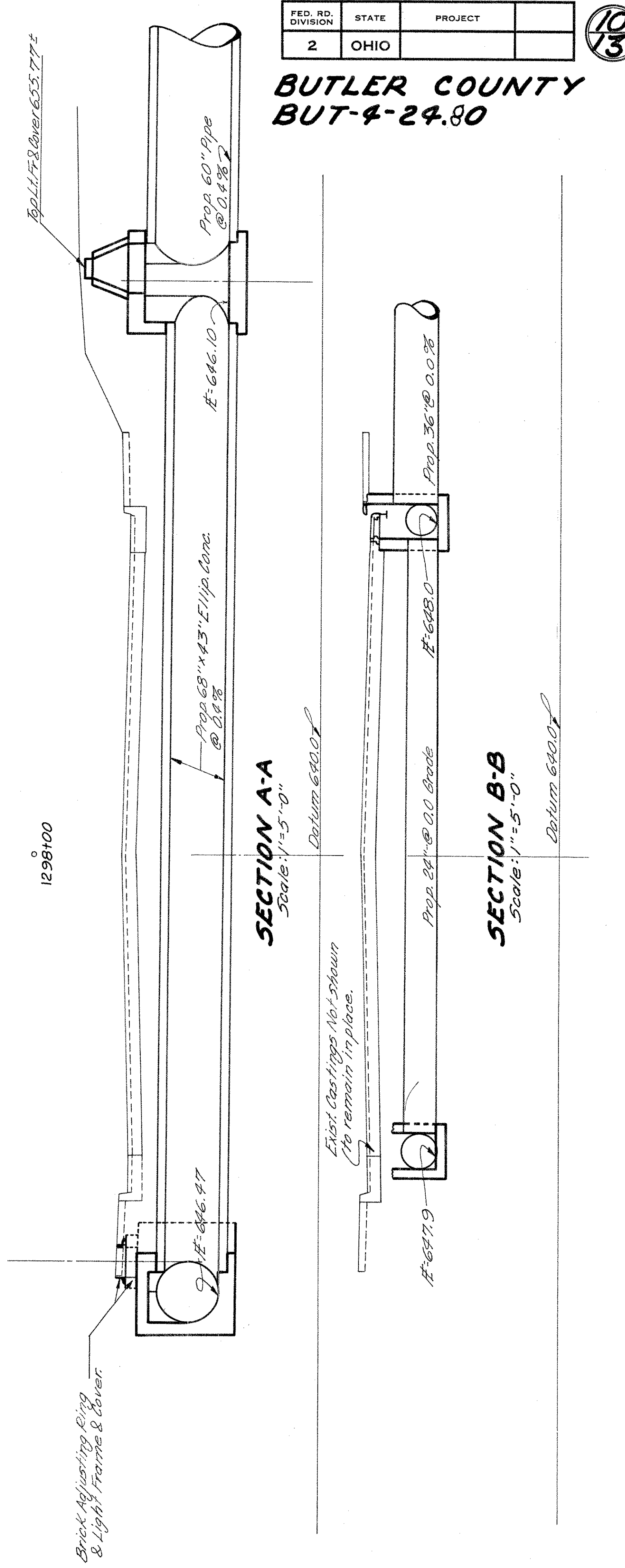
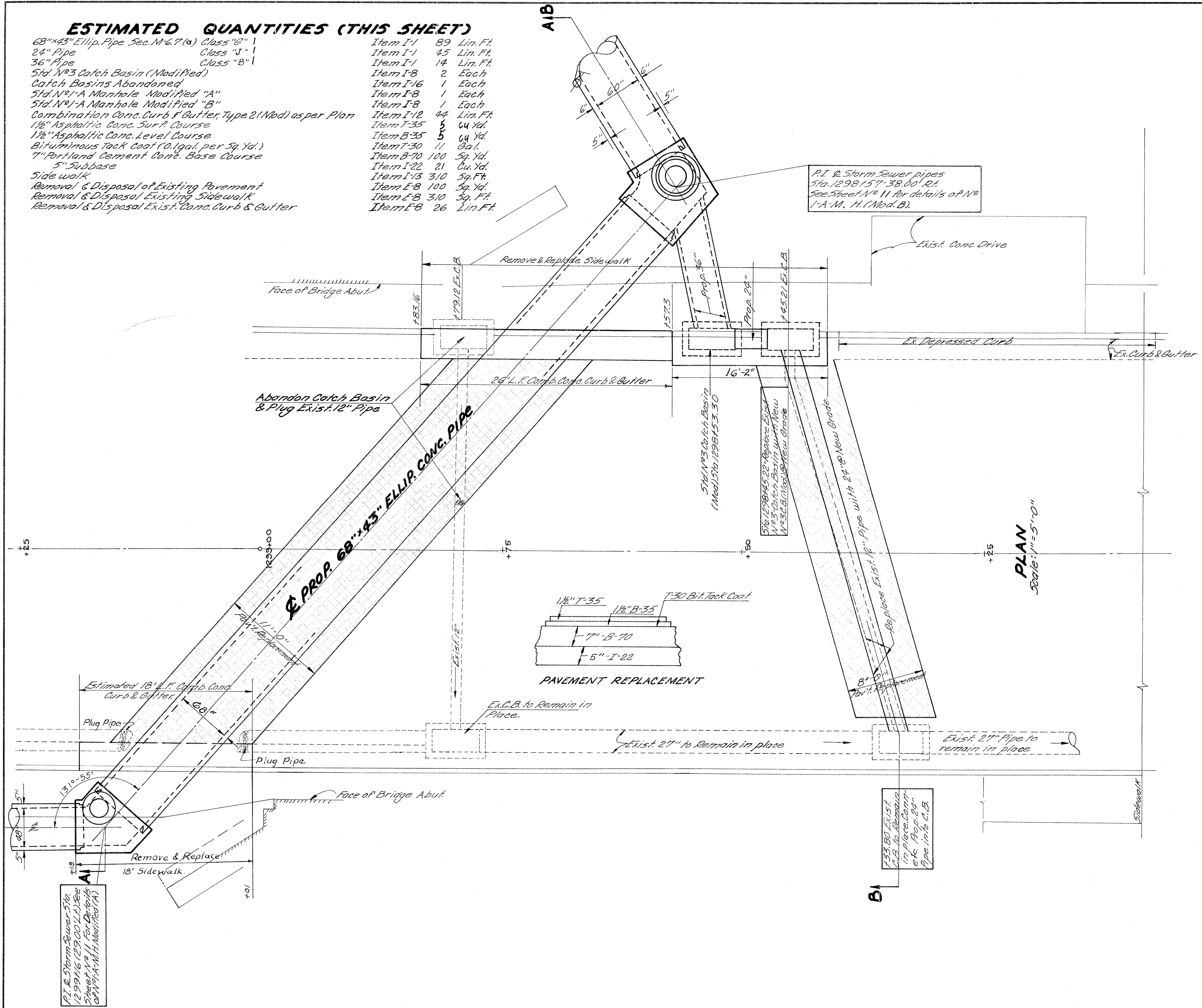


RETENTION BASIN CROSS SECTIONS-STA 10+00 TO 17+00

**BUTLER COUNTY
BUT-4-24.80**

ESTIMATED QUANTITIES (THIS SHEET)

68"x43" Ellip. Pipe Sec. M 6.7 (a) Class "B"	Item I-1	89	Lin. Ft.
24" Pipe Class "J"	Item I-1	45	Lin. Ft.
36" Pipe Class "B"	Item I-1	14	Lin. Ft.
5td. No. 3 Catch Basin (Modified)	Item I-8	2	Each
Catch Basins Abandoned	Item I-16	1	Each
5td. No. 1-A Manhole Modified "A"	Item I-8	1	Each
5td. No. 1-A Manhole Modified "B"	Item I-8	1	Each
Combination Conc. Curb & Gutter Type 2 (Mod) as per Plan	Item I-12	44	Lin. Ft.
1 1/2" Asphaltic Conc. Surf. Course	Item T-35	5	Cu. Yd.
1 1/2" Asphaltic Conc. Level Course	Item B-35	5	Cu. Yd.
Bituminous Tack Coat (0.1 gal. per Sq. Yd.)	Item T-30	11	Gal.
7" Portland Cement Conc. Base Course	Item B-70	100	Sq. Yd.
5" Subbase	Item I-22	21	Cu. Yd.
Side walk	Item I-13	310	Sq. Ft.
Removal & Disposal of Existing Pavement	Item E-8	100	Sq. Yd.
Removal & Disposal Existing Sidewalk	Item E-8	310	Sq. Ft.
Removal & Disposal Exist. Conc. Curb & Gutter	Item E-8	26	Lin. Ft.



P.I. & Storm Sewer 5/16
1298+16 (29.00' L.F.) See
Sheet No. 11 for details
of No. 1-A Manhole (A)

1298+19 EXIST.
C.B. to remain
in place. Comp.
etc. Prop. 24"
Pipe into C.B.

Brick Adjusting Ring
& Light Frame & Cover

Exist. Castings Not shown
to remain in place.

P.I. & Storm Sewer pipes
5/16 1298+15.7' - 38.00' R.L.
See Sheet No. 11 for details of No.
1-A M. H. (Mod. B).

Remove & Replace Sidewalk

Exist. Conc. Drive

Ex. Depressed Curb

Ex. Curb & Gutter

Face of Bridge Abut.

Abandon Catch Basin
& Plug Exist. 12" Pipe

5td. No. 3 Catch Basin
(Mod. 5/16 1298+15.3' 3.0)

5/16 1298+45.22 - Replace Exist.
No. 3 Catch Basin with New
No. 3 C.B. (Mod. 5/16 New Grade)

Replace Exist. 18" Pipe with 24" @ New Grade

8'-0" Pavt. Replacement

Ex. C.B. to remain in place.

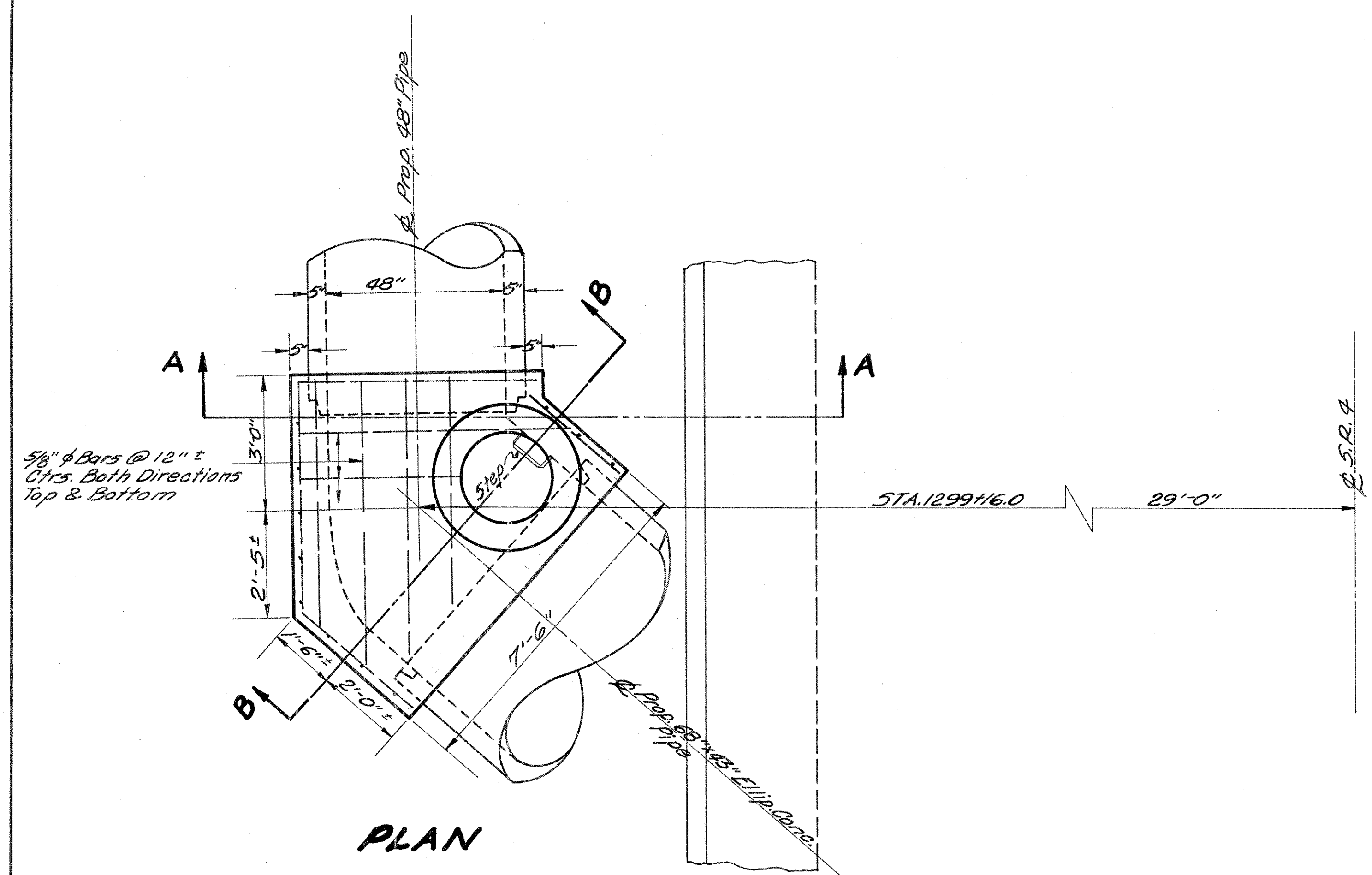
Exist. 27" to remain in place

Exist. 27" Pipe to remain in place

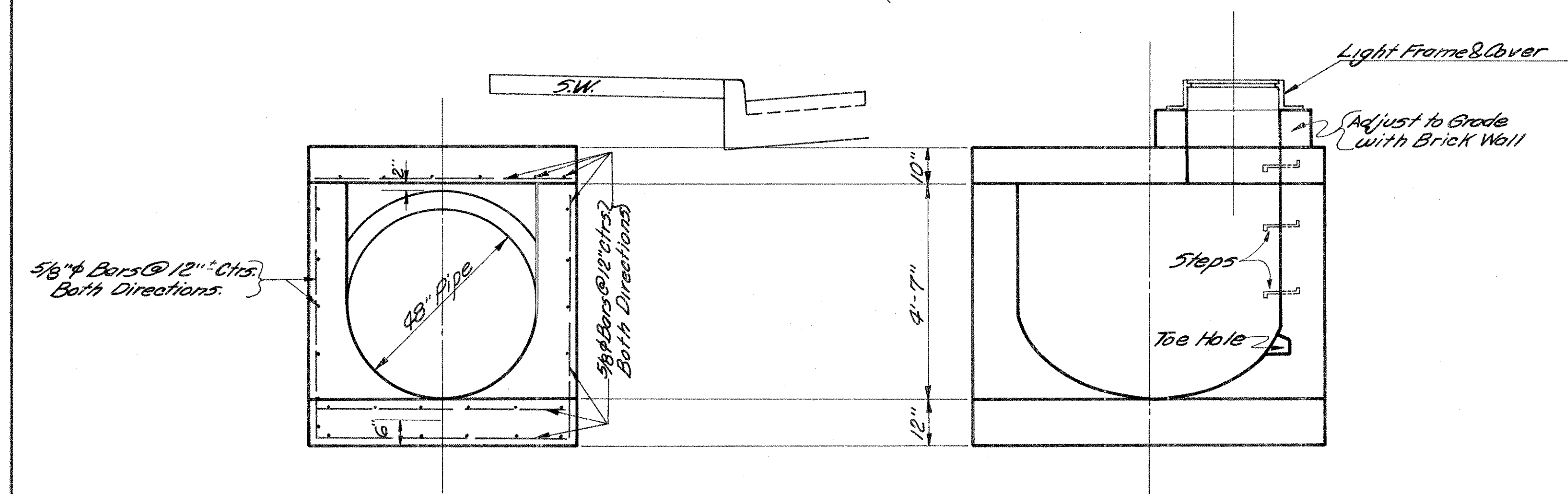
Remove & Replace 18' Sidewalk

Sidewalk

**BUTLER COUNTY
BUT-4-SEC. 24.80**



PLAN



SEC. A-A

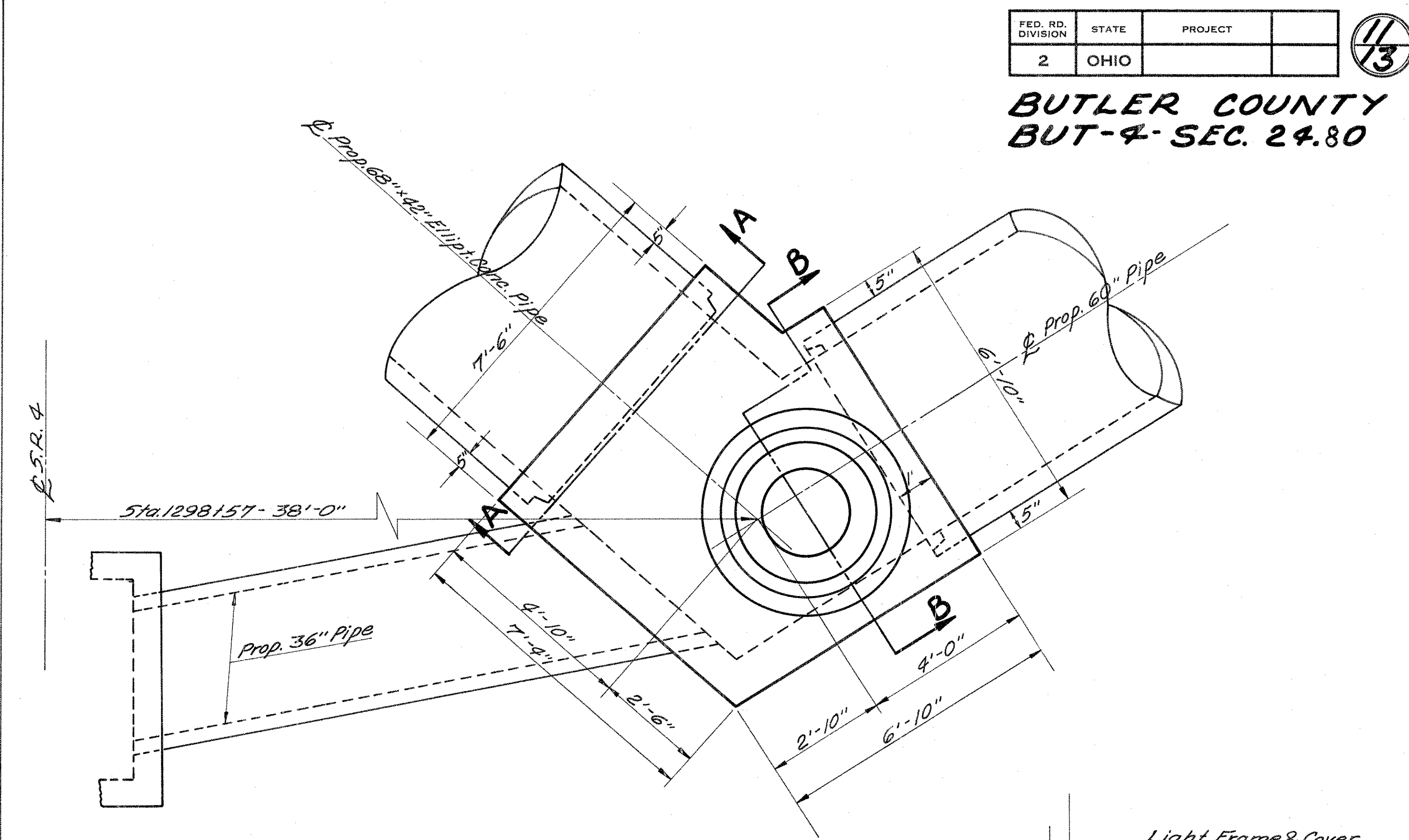
SEC. B-B

Scale 1/2" = 1'-0"

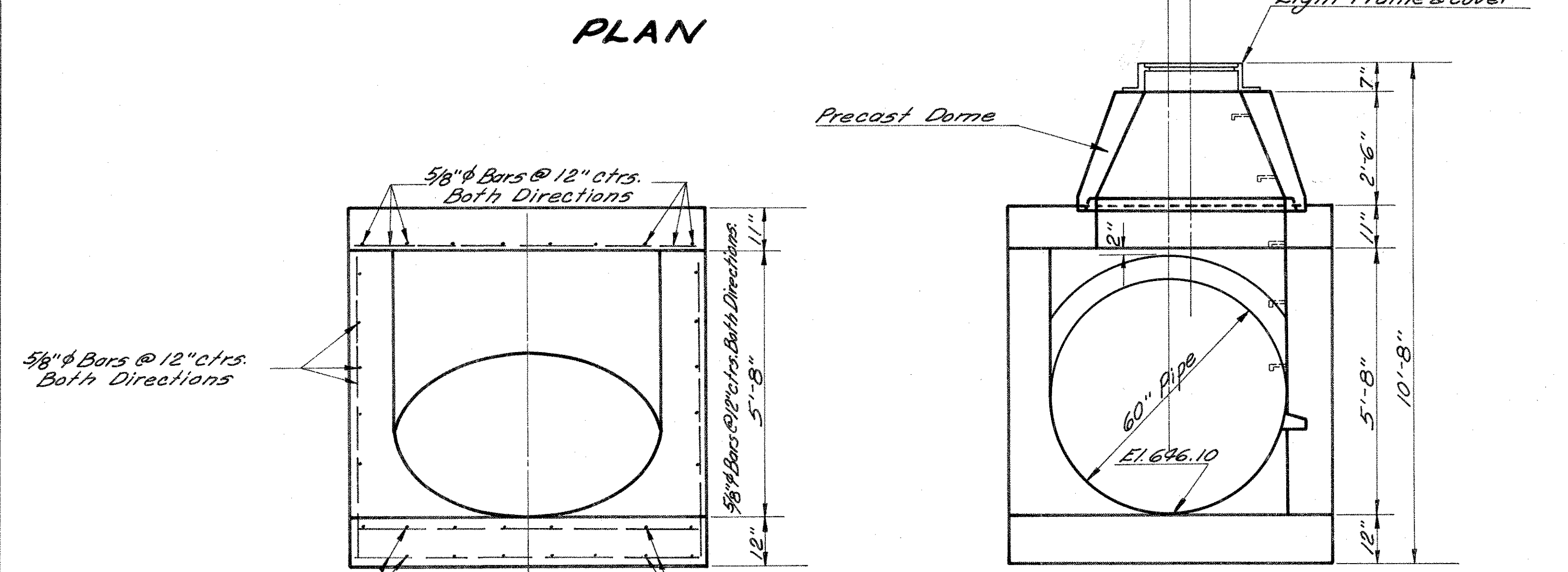
Note: For details not shown See Std. Drawings I-8 M.H. No. 1A.

**DETAIL I-8 MANHOLE No. 1-A (Modified A)
STA. 1299+16.0-29'-0" Lt.**

Drawn by C.E.N. 6-6-63
CKd. by



PLAN



SEC. A-A

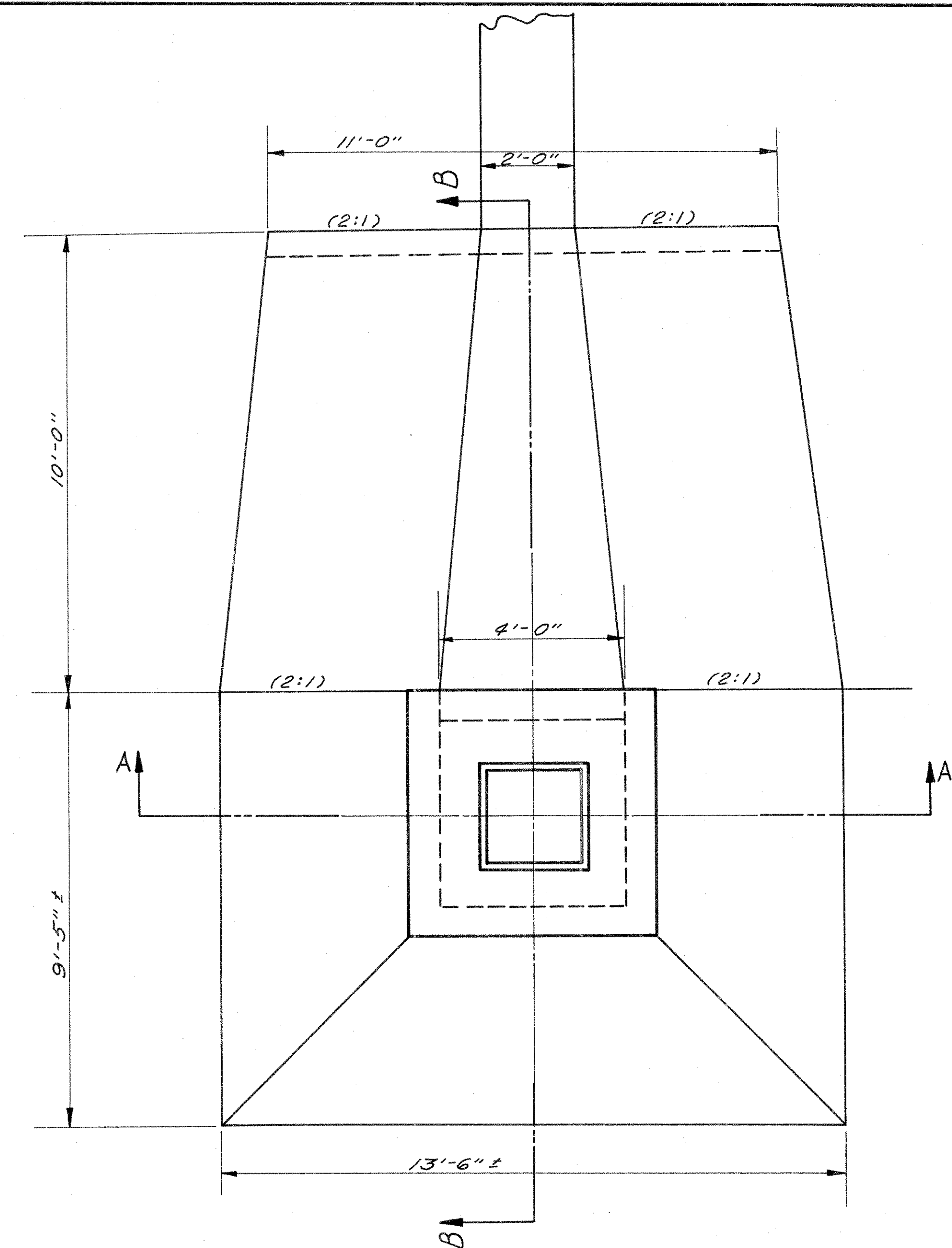
SEC. B-B

Scale 1/2" = 1'-0"

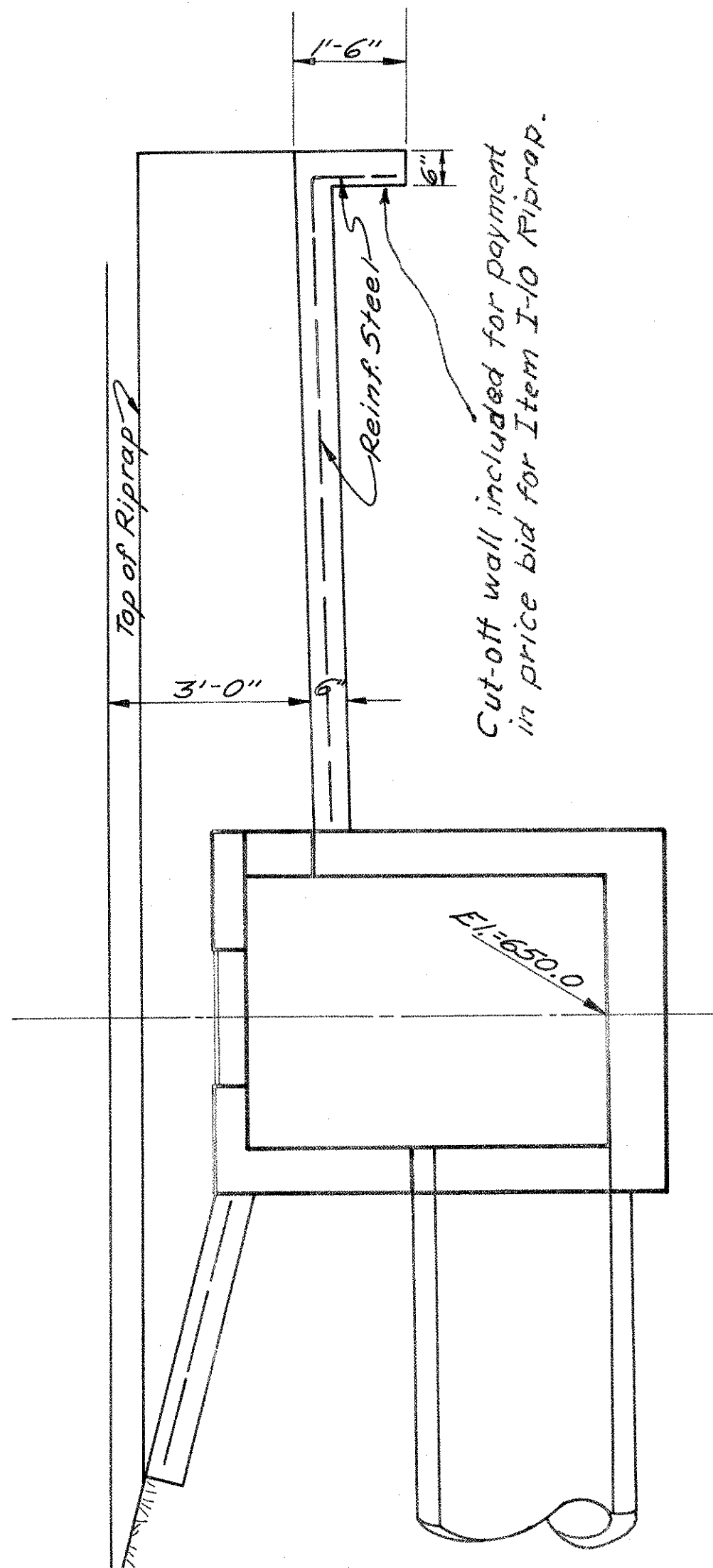
Note: For Details not shown See Std. Drawing I-8 M.H. No. 1A.

**DETAIL I-8 MANHOLE No. 1-A (Modified B)
STA. 1298+57-38'-0" Rt.**

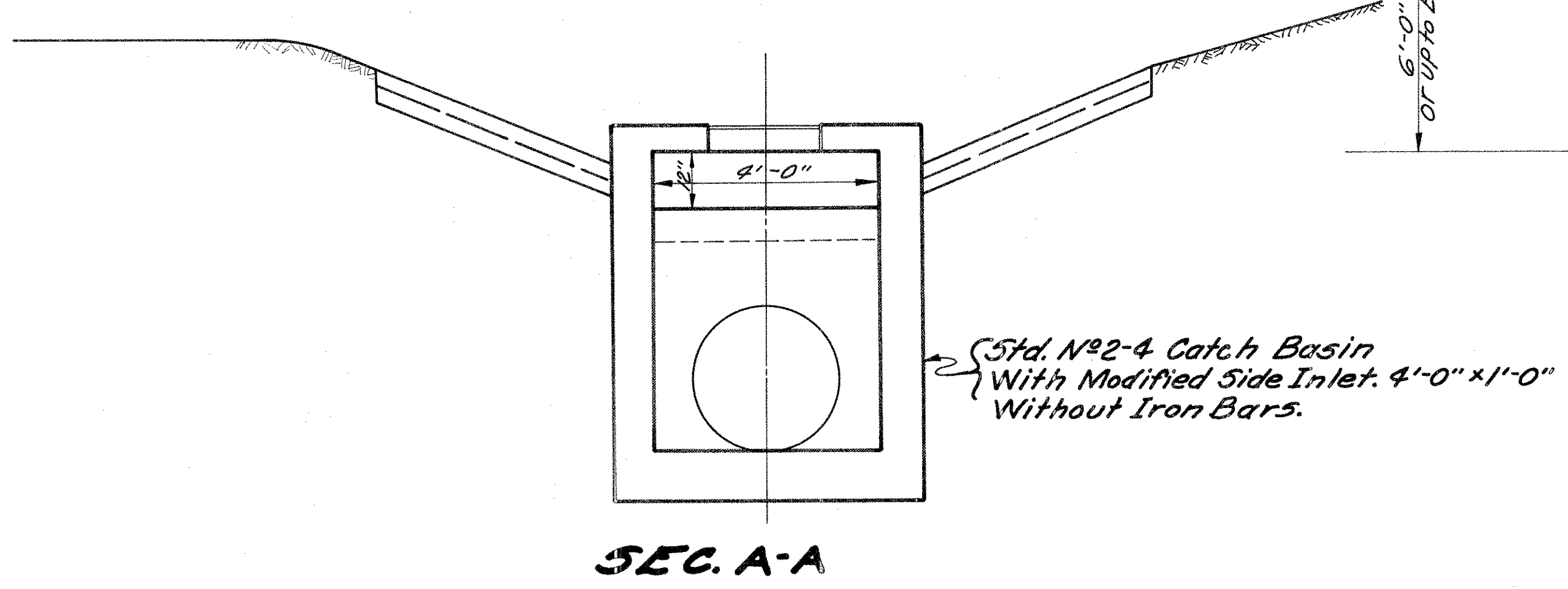
**BUTLER COUNTY
BUT-4-24.80**



Riprap - 6" Reinf. Conc. Paving (Item I-10) 26 Sp. Yd.

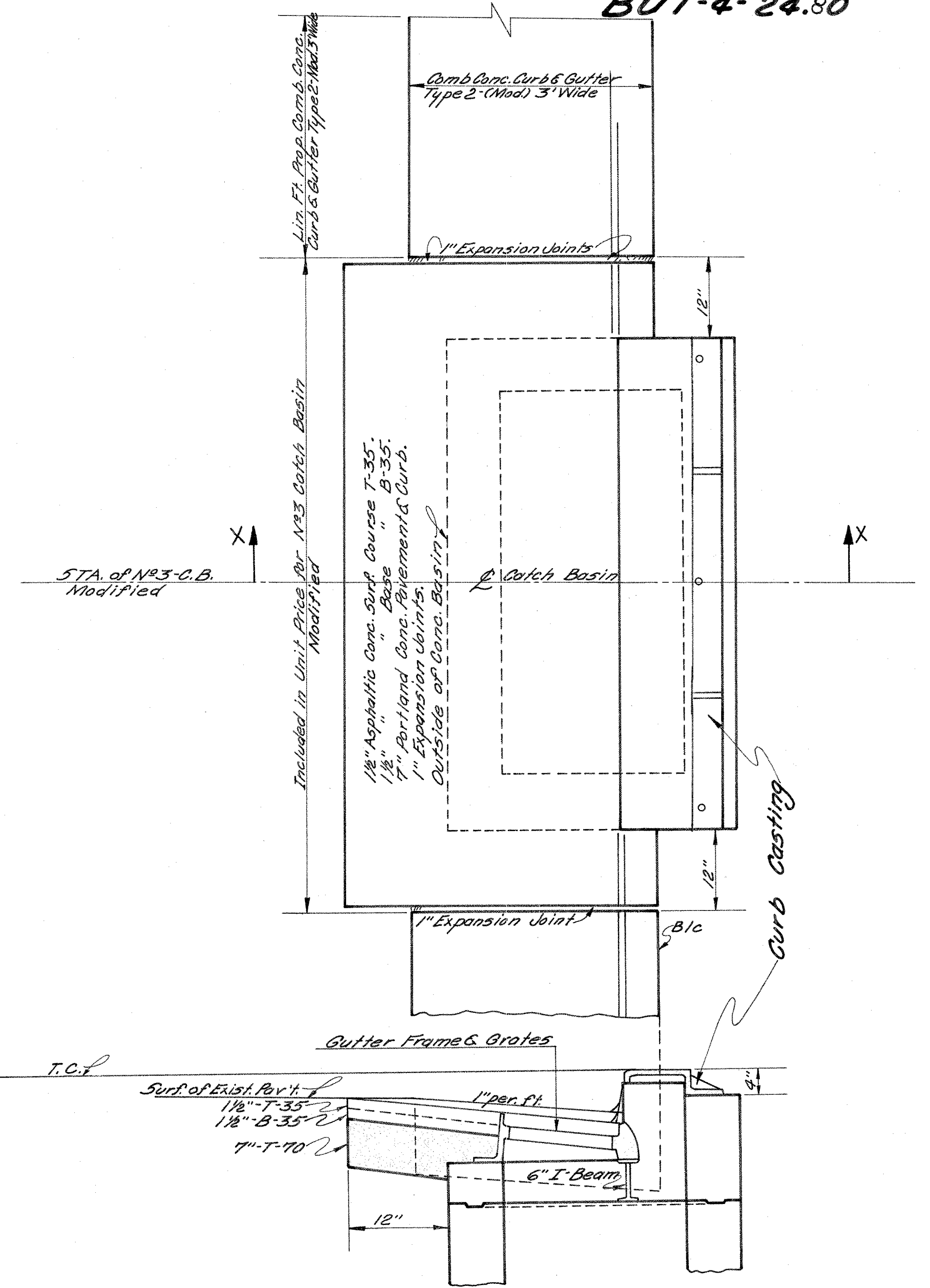


SEC. B-B
DETAIL STD. 2-4 CATCH BASIN MODIFIED - Showing Enlarged Side Inlet without Iron Bars. & also Showing Forced Entrance.
This Detail To Be Used @ STA. 1305+08.6, 1308+00 Lt.



SEC. A-A

Std. No. 2-4 Catch Basin With Modified Side Inlet. 4'-0" x 1'-0" Without Iron Bars.



SEC-X-X

- MODIFICATION OF Std. No. 3 Catch Basin to consist of the following-**
- The 6" I Beams, Gutter Frames & Grates, and Curb Casting are to be the Salvaged Units from the Exist. Catch Basins @ Sta. 1298+45.22 & 1298+79.12 Rt.
 - PAVEMENT: The portion blocked out of pavement shall be placed after the castings have been set and shall be included the unit cost of the Catch Basin.

SUMMARY OF ADDITIONAL R/W REQUIRED

PARCEL NO.	OWNERS NAME	AREA ACRES	BLDG. REMOVAL	SHEET NO.	REMARKS
1-LA	Hugh C. & Lottie Barnes	0.137	None	13	
1-X		2.929	None	13	
2-5	Edward W. & Evelyn Gorsuch	0.080	None	13	
3-5	Baltimore & Ohio Railroad	0.006	None	13	

NO.	STATE	PROJECT
2	OHIO	

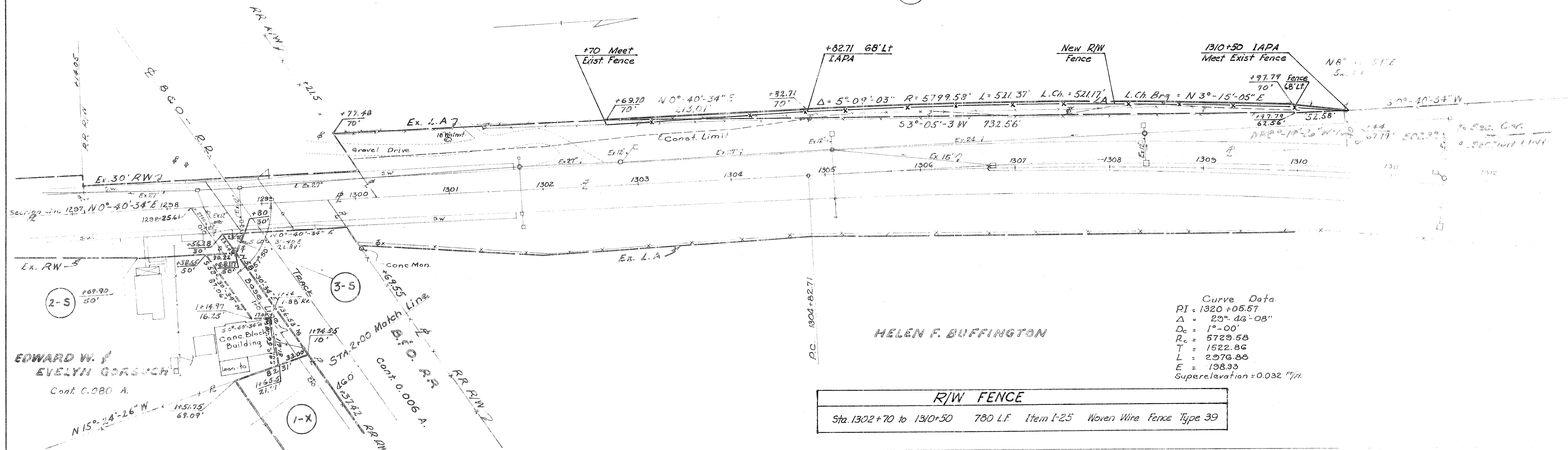
13

BUTLER COUNTY
TOWNSHIP 4 - SEC. 2480

HUGH C. & LOTTIE BARNES

Cont. 0.137 A. CHARLES E. DUNFORD
MAY 11, 1964

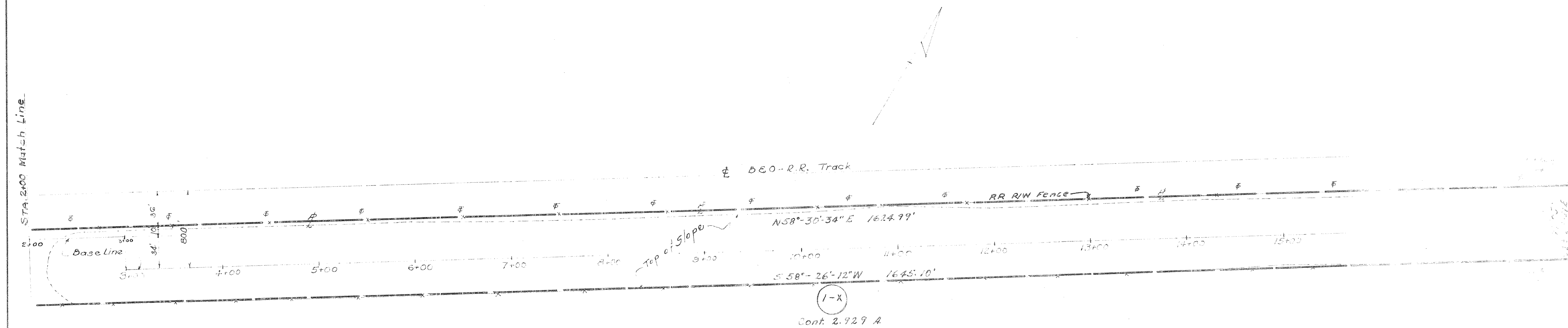
(1-LA)



HELEN F. BUFFINGTON

Curve Data
 PI = 1320+05.57
 $\Delta = 29^{\circ} 46' 08''$
 $D_c = 1^{\circ} 00'$
 $R_c = 5729.58$
 $T = 1522.86$
 $L = 2976.88$
 $E = 198.93$
 Superelevation = 0.032 %/ft.

R/W FENCE
 Sta. 1302+70 to 1310+50 780 L.F. Item I-25 Woven Wire Fence Type 39



(1-X)
Cont. 2.929 A

HUGH C. & LOTTIE BARNES

Revised 10-64 C.E.H.
Rev. 9-27-63