

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

FED. DIST. NO.	STATE	PROJECT	FISCAL YEAR
	OHIO	H. I.	1945

34

HIGHLAND COUNTY
S. H. 254 SEC. C (PT.)

WILMINGTON HILLSBORO ROAD

S.H. 254 SEC. C (PT.)

UNION & PENN TOWNSHIPS

HIGHLAND COUNTY

CONVENTIONAL SIGNS

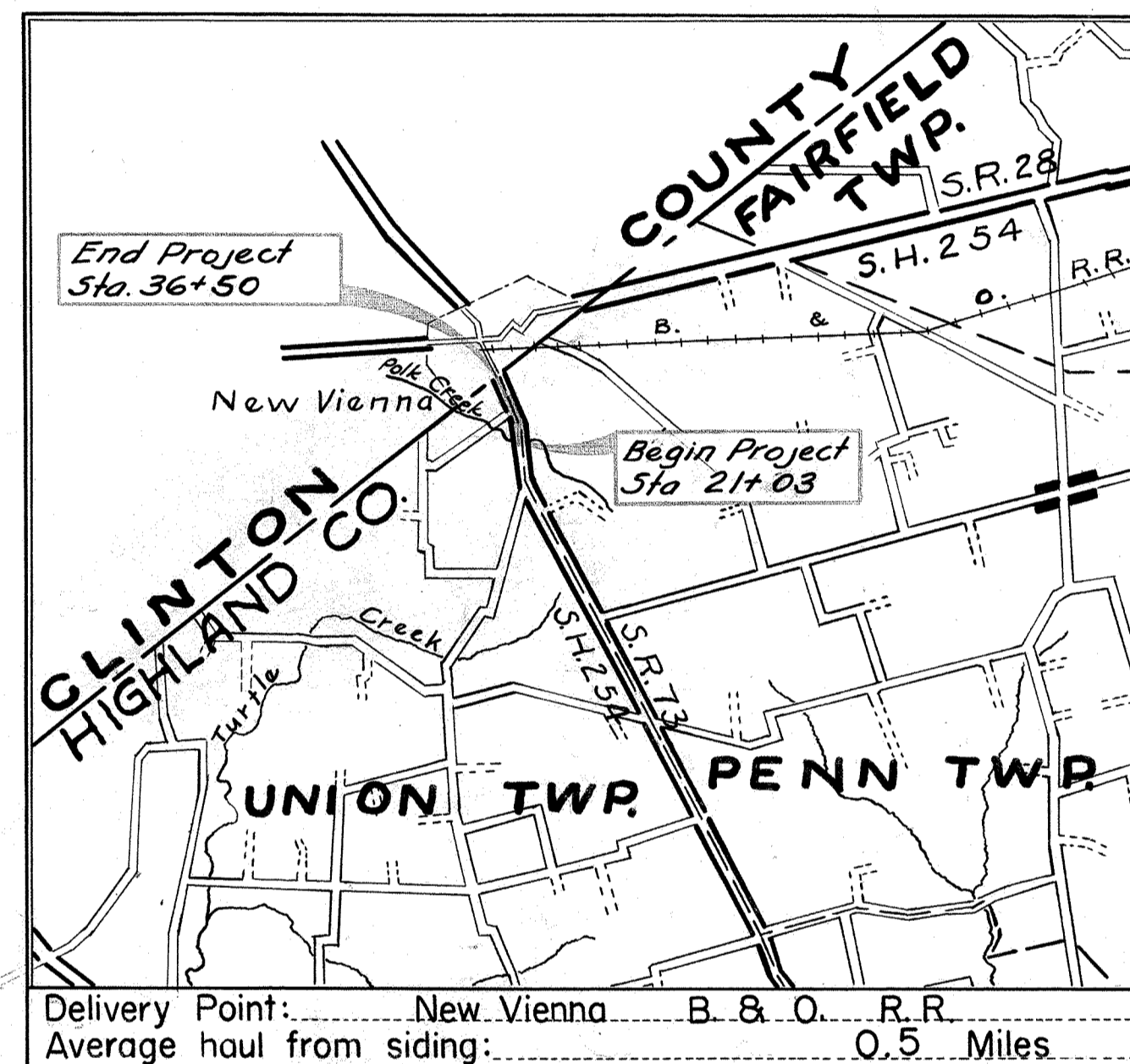
County Line	_____
City or Village Line	_____
Property Line (not fenced)	_____
Property Line (fenced)	_____
Center Line	_____
Guard Rail (Posts) (new)	•••••
Guard Rail (existing)	○ ○ ○ ○ ○
Drain Pipe (existing)	_____
Drain Pipe (new)	_____
Telephone Pole	⊕
Power Pole	⊗

INDEX OF SHEETS

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LINE DATA

Begin Project	Sec. C (Pt.)	Sta. 21+03
End Project	Sec. C (Pt.)	Sta. 36+50
Length of Project		1547 Lin. Ft.
Net Length of Project		1547 Lin. Ft. or 0.292 Miles



LOCATION PLAN

SCALE OF MILES



Portion to be improved:	=====
State Roads:	=====
Other Roads:	=====

SCALE

Plan:	" = 50'
Profile: Horizontal	" = 50'
Profile: Vertical	" = 5'
Cross Sections	" = 5'

Supplemental Prints of Standard Construction Drawings	
G-7.07	6-1-42
S-27 P.C.3	2-20-45
I-1,2,3,4&5	2-20-45
I-8 2-2-A&B	12-15-41
I-15 No. 8	3-10-42
AS-41-F	3-31-41

Supplemental Specifications	
112	Rev. 11-1-44
177	Rev. 4-21-44
E-305	REV. 5-1-41
T-110	Rev. 8-3-36
S-203	4-6-45
M-109.1	Rev. 3-14-44
M-109.2	Rev. 3-14-44
M-109.6(a)	Rev. 3-14-44
M-109.6(b)	Rev. 3-14-44
T-170.15	8-2-43
M-109.7(a)	Rev. 3-14-44
M-109.7(b)	Rev. 3-14-44
M-109.8	7-26-43

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 to traffic of the highway and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved: *Joseph N. Doyle* P.E. 1209
Date: 11/14/45 Division Deputy Director.

Approved: _____
Date: _____ Chief Engineer, Bureau of Maintenance.

Approved: *Guy H. Elbin*
Date: 11-21-45 Chief Engineer, Bureau of Bridges & R. R. Crossings.

Approved: *J.E. Masheter*
Date: 11-23-45 Act'g Chief Engineer, Bureau of Location & Design.

Approved: *Edwin W. Ellis*
Date: 11-23-45 First Ass't. Director and Chief Engineer.

Approved: *Perry T. Fowl*
Date: 11-23-45 Director of Highways.

File No.	Highland County - S. H. 254 Sec. C (Pt.)
Date of Letting:	194
Contract No.	

CONSTRUCTION BUREAU
AUG 16 1956
GROUND PHOTOLAB

NOTES

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
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HIGHLAND COUNTY
S. H. 254 SEC. C (Pt.)

GENERAL

FIELD OFFICE

The contractor shall provide a suitable "Field Office" for the exclusive use of the engineer and inspectors assigned to this project. This office shall have a minimum of 140 sq. ft. of floor space and so arranged, equipped and lighted that the State employees will have a convenient place for making the necessary records, etc., and have a safe place for storage of equipment, plans and necessary supplies.

The contractor shall have a telephone installed and maintained during construction of this project. When the work is in progress during cold weather, the office shall be heated to a temperature of at least seventy (70) degrees Fahrenheit (See section 5-0.01 (b) of the Construction and Material Specifications.

TRAFFIC SCHEDULE

The contractor shall submit a traffic schedule to the engineer at least 10 days before the start of the work. The schedule shall show the proposed times for the work and the proposed times for the work to be completed.

TRAFFIC

Two-way traffic, except as shown below, shall be maintained at all times to the satisfaction of the Engineer. Temporary roadways as deemed necessary by the engineer, shall be constructed, maintained and removed by the contractor.

During the paving operations one-way traffic will be permitted and the one-way traffic zones shall be consistent with the requirements of Sec. T-31.07.

In addition to the requirements of Sec. G-8.07, Barricades, Danger and Warning Signs, the contractor shall display one "PLEASE-MEN WORKING ON ROAD" sign furnished by the State at each end of each one-way zone and in such a position as to be visible to traffic approaching the one-way zone.

The contractor shall be responsible for the preservation of these signs, shall advance the signs as work progresses and shall return the signs to the State at the completion of the work.

The item of "Maintaining Traffic" shall include furnishing lights, signs, (other than those mentioned above) barricades and watchmen, plus the displaying and advancing of the "PLEASE-MEN WORKING ON ROAD" signs to secure the flow of traffic twenty four (24) hours daily.

Traffic Compacted Surface Course, Item T-110, and Calcium Chloride, Item M-10, estimated and paid for under Item T-110 and M-10, shall be applied as directed and in the amounts requested by the Engineer.

All of the above, except Traffic Compacted Surface Course, Item T-110, and Calcium Chloride, Item M-10, is included in the lump sum bid for maintaining traffic. In addition to the above, Sec. G-4.05 (maintenance of local traffic) of the Construction and Materials Specifications, will be enforced during the life of the contract.

UTILITY ADJUSTMENTS

Any and all work required for Public or Private Utilities will be done by and at the expense of their respective owners unless otherwise noted on these plans.

WINTER CONSTRUCTION

Construction operations shall not be suspended for inclement weather. Winter Concrete Construction will be required and structure operations will be in accordance with Sec. S-1.09 of the Construction and Materials Specifications.

PAVEMENT

SUPERELEVATION

Superelevated curves shall be built without crown. The crown shall be worked out of the pavement in that portion between the beginning of the transition and the point where the superelevation equals twice the crown.

ROADWAY

REMOVAL OF TREES AND STUMPS

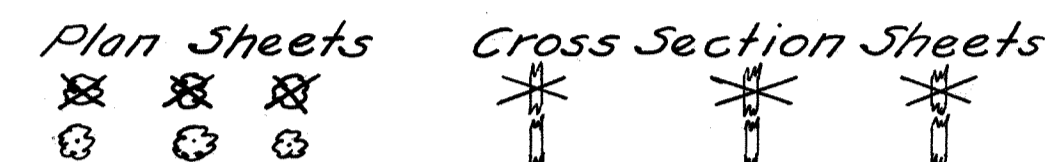
The removal of trees and stumps, the diameters of which are over twelve (12) inches (measured four (4) foot above the ground) shall be in accordance with Specifications Item E-9.

All stumps within the limits of the right-of-way shall be disposed of as specified in paragraph E-1.02 of the Construction and Material Specifications.

Trees shall not be removed, regardless of size, until specifically and conspicuously marked by the engineer.

Trees in areas where the proposed contour of the ground differs from the existing contour shall be removed or preserved as indicated on the plans by the following symbols:-

Trees to be removed
Trees to be preserved



The number of trees to be removed as indicated by the above symbols is approximate and the State of Ohio reserves the right to remove additional trees even though these trees are not indicated on the plans or are indicated to be reserved.

Payment for the removal of these additional trees is included in the lump sum bid for removal of trees and stumps.

REMOVAL OF REFUSE AND DEBRIS

Any existing refuse, debris, or any other unsuitable material shall be removed and disposed of by the contractor, outside the limits of the right-of-way or easement lines.

The yardage of refuse or debris, or other unsuitable material removed and disposed of will be determined by final cross-sections and the yardage so determined will be paid for at the contract unit price bid for Roadway Excavation Item E-1.

EMBANKMENT

The moisture content of all embankment material shall be less than optimum at the time of compaction.

Embankment material placed on fill containing or exceeding optimum moisture whether caused by rain or from the state of the material as it is received shall be aerated by discing or other approved method for the full depth of the course to reduce the moisture content to below optimum at the time of compaction.

Excavated material and borrow of which the grain size of 50% or more is between 0.075 mm and 0.005 mm (State Highway Testing Laboratory method of testing) shall be placed at least 3 feet below the pavement when used in the embankment.

In lieu of the requirements for full width construction under E-1.05 the embankment, where traffic is maintained, may be placed in part width construction.

UNSATURATED SUBGRADE DETERMINATION

The approximate depth and width of the unsaturated zone of the subgrade shall be indicated on the cross sections and the contractor shall be responsible for determining the depth of the unsaturated zone by excavating to the depth of the unsaturated zone.

The contractor shall excavate to a depth of 12 inches and the Engineer will then make the necessary tests to determine the depth of the unsaturated zone.

The yardage of Roadway Excavation (unsaturated zone) subgrade will be determined by final cross sections and the yardage so determined will be the yardage determined by the final cross sections.

COMPACTION OF SUBGRADE

Loosening and watering of subgrade in cuts according to Section E-1.08 will not be required if density requirements can be met by additional rolling. However, if at any time the subgrade contains an excess of moisture as indicated by distortion under the roller, the subgrade shall be aerated by discing or other suitable means until the moisture content has been reduced sufficiently to permit recompaction to the density required by the specifications.

NOTES

ROADWAY

PIPE REMOVAL

The removal and disposal of any existing pipe (not listed for removal and storing) lying within the limits of proposed excavation of either Item E-1, E-2 or E-3, is classified and paid for as excavation and shall be removed and disposed of by the contractor.

GUARD RAIL

Existing guard rail will be removed by State Maintenance Forces.

ESTIMATED SEEDING

The estimated quantities for seeding are based upon the actual limits of seeding which are shown on the plans and the quantity of seed required for the same.

SEEDING AND PROTECTING ROADWAY AREAS

Quantities for Seeding Item E-305 are calculated for the soil areas between lines ten (10') feet outside the work limits as shown on the cross-sections or to the Right-of-Way line if such line is less than ten (10') feet from the work limits.

All areas outside these limits where the vegetative growth has been injuriously disturbed or destroyed by contractor, shall be restored and seeded in accordance with the provisions of Item E-305 by the contractor at his own expense.

The mixture of seed outlined under Item E-305 shall be deleted and the following mixture substituted.

- 40 % Kentucky Blue Grass
- 10 % Meadow Fescue
- 15 % Perennial Rye Grass

Purity	98 %
Weed	.05 %
Germination	90 %
Hard Seed	15 %

- 15 % Birds Foot Trefoil

- 20 % Red Clover

All legumes shall be inoculated.

The rate of seeding as specified under Item E-305 shall be deleted and four (4) pounds per one thousand (1000) square feet shall be substituted for all areas.

FERTILIZING AREAS TO BE SEEDED

All areas to be treated in accordance with Item E-305 and Item L-10 respectively shall have commercial fertilizer (10-6-4 Mix.), or any formula approved by the Director, applied at the rate of 20 pounds per 1000 square feet.

AGRICULTURAL GROUND LIMESTONE

Agricultural ground limestone shall be of a fineness that 99% will pass a ten (10) mesh sieve, with 40% passing a one hundred (100) mesh sieve and with a minimum total neutralizing power of 95%. Agricultural ground limestone shall be applied at the rate of one hundred fifty (150) pounds per one thousand (1000) square feet. Limestone may be applied and disked in at the same time as the fertilizer.

Agricultural ground limestone shall be applied to all seeded areas and sodded areas.

MULCHING AREAS TO BE SEEDED

Within 48 hours after any areas have been seeded such areas shall be covered with a mulch as outlined under Item E-305 which shall be held in place throughout the life of the contract.

PLACING SOD

Special care shall be taken in placing all sod so that the top of the sod coincides with the finished surface as shown on the cross-sections. All earthwork necessary to accomplish the above is included in the unit price bid per square yard.

ROADWAY

SODDING

Time limitation on laying sod as outlined under Item L-10 may be cancelled by the Director. Straw mulch two (2) inches thick is estimated for all sod areas. Sod shall be mulched only if the time limitation is cancelled and only on sod areas placed because of cancellation of time limitation. Remainder of Mulching (straw) Item L-18 shall be non-performed.

PAVED GUTTERS

Paved gutters shall be constructed of stone, broken concrete or brick to a minimum thickness of 12"; or of new concrete to a minimum thickness of 6". When constructed of material other than new concrete the material shall be grouted in place. The new concrete shall be Class E.

REMOVAL AND STORING OF EXISTING PIPE

Pipe listed for removing and storing under Item E-12 shall be stored on the right of way at the disposal of the Highway Department.

LOCATION AND SIZE OF EXISTING PIPE

The location, type, depth and size of all existing pipes are shown as near exact as the available information will permit. The State of Ohio will not be responsible for any variations found during construction.

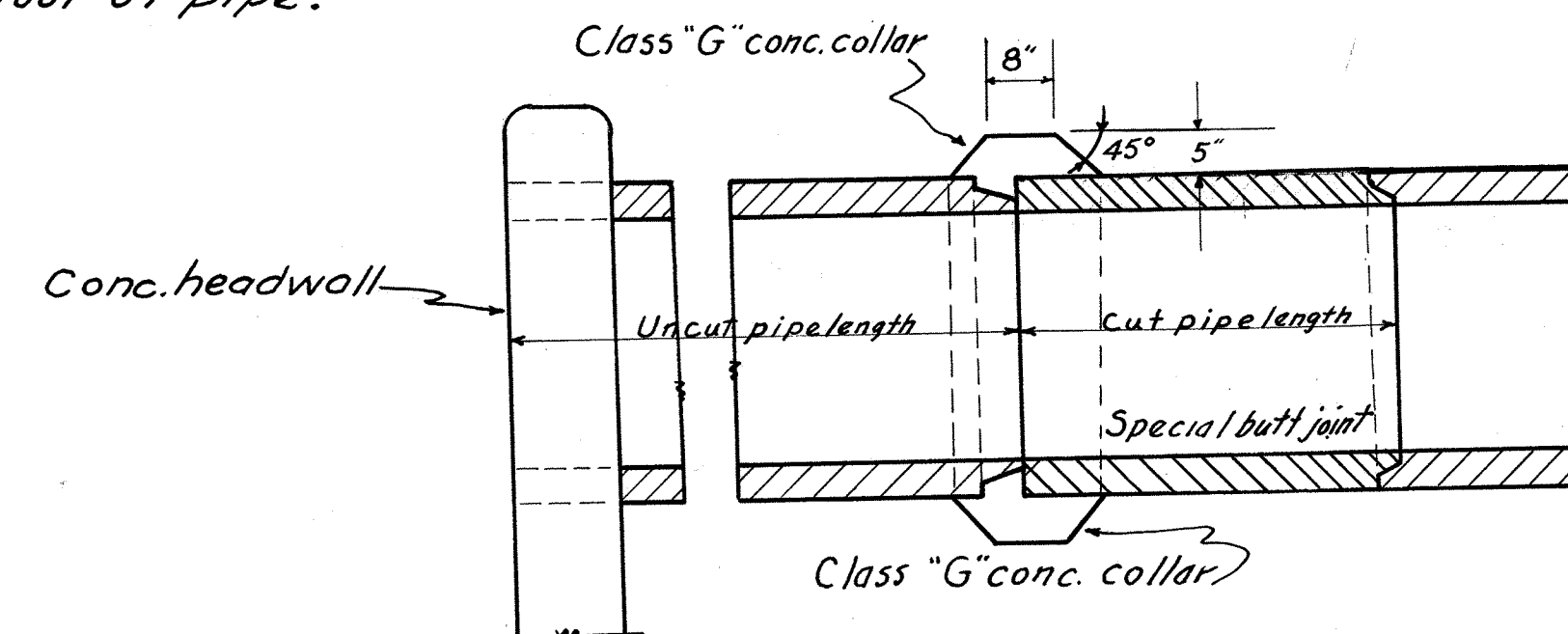
Payment for pipe removed will be made according to the listing shown on these plans.

STONE UNDERDRAINS

In the final finishing, care shall be exercised that the exposed ends of the underdrains shall be left free of earth cover that would impede free drainage.

PIPE CULVERTS

When bell and spigot pipe are used, any necessary cut-off pipe will be made of the spigot end of the length of pipe adjacent to the end length. When tongue and groove pipe is used, the length of pipe next to the end length shall be cut and the butt-joint formed with a collar as shown below to be included in the price bid per lined foot of pipe.



SUMMARY OF QUANTITIES

① **EXCAVATION AND EMBANKMENT CU.YDS.**

Station to Station	Excavation	Embankment Emb +20%	Borrow
21+75 ~ 25+24	288	1009	1211
25+48 ~ 36+50	2210	4350	5220
Total	2478	5359	6431

Note: Channel Excavation (2331 Cu.Yds.) to be used to reduce borrow
 Calculation: 2478 + 2331 = 4809 Cu.Yds.
 6431 - 4809 = 1622 Cu.Yds. Borrow

② **DRIVES AND APPROACHES**

Sheet No	Side Approaches Mailbox Turnouts & Berm Material Item I-17 Cu.Yds.	12" Pipe for Driveways Item I-1 Lin.Ft.
8	23	144
9	5	
+20%	6	
Total	34	144

⑧ **STRUCTURES 20FT. SPAN AND UNDER**

Structure No	Station	Type	Size	Length	Std. Drawing No	Excavation for Structure	Channel Excavation	Concrete for Structures (Class C)	Reinforcing Steel	24" Pipe for Roadway Culverts	Stone Paved Gutter	24" Pipe Removed & Stored	Removal of Existing Structure
						Item E-2 Cu.Yd.	Item E-3 Cu.Yd.	Item S-1 Cu.Yd.	Item S-4 Lb.	Item S-27 Lin. Ft.	Item I-14 Lin. Ft.	Item E-12 Lin. Ft.	Item S-24 Lump
1	29+62	Pipe	24"	37'								37	Lump
2	30+90	Pipe	24"	50'	S-27 PC-3	45	8	5.2	159	50	10		
Total						45	* 8	5.2	159	50	* 10	37	Lump

③ **EROSION CONTROL**

Sheet No	Seeding and Protecting Roadway Areas Item E-305 Sq. Yds.	Sodding Item L-10 Sq. Yds.	Salix mutabilis (Dwarf Willows 2 1/2 to 3') Item L-13 Each	Commercial Fertilizer (10-6-4) Item L-9 Lbs.	Agricultural Ground Limestone Item L-9 Lbs.	Mulching Item L-18 Sq. Yds.
8	7980	257	115			
9	5652	67	235			
Total	13632	324	350	2512	18841	324

⑨ **CHANNEL EXCAVATION**

Sheet No	Channel Excavation Item E-3 Cu. Yds.
8	2323
Total	* 2323

⑩ **RIPRAP**

Sheet No	Riprap (Type "A" Grouted) Item I-10 Sq. Yd.
8	130
Total	130

④ **DRAINAGE**

Sheet No	Pipe for Roadway Drainage Item I-3 6" Lin. Ft. 12"	Concrete Paved Gutter Item I-14 Lin. Ft.	Standard Type 2-2A Catch Basin Item I-8 Each	Stone Paved Gutter Item I-14 Lin. Ft.
8	189	154	1	50
9	10			
Total	199	154	1	50

⑤ **PIPE REMOVALS**

Sheet No	Pipe Removed and Disposed of Item E-12 Lin. Ft.			
	6" V.S.P.	8" V.S.P.	12" V.S.P.	12" Metal
8	123	22	18	15
Total (6" to 12")	178			

⑪ **REMOVAL OF TREES & STUMPS ITEM E-109**
 See note on Sheet No 3
 Lump

⑫ **APPROACH SLABS**

Sheet No	9" Reinf. Conc. Approach Slabs (As per plan) Item S-5 Sq. Yds.	*Asphaltic Concrete Surface Course, Type A Item T-35 Cu. Yds.	Bituminous Tack Coat, Sec. M-5.5MS-1 Item T-30 Gals.
8	84	5.8	8.4
9	84	5.8	8.4
Total	168	11.6	16.8

* 2 1/2" Asphaltic Concrete Surface Course shall be laid in 2 - 1 1/4" courses.

RECAP TABLE

From Table No	Stone Paved Gutter Item I-14 Lin. Ft.	Channel Excavation Item E-3 Cu. Yds.
4	50	
8	10	8
9		2323
Total	60	2331

⑥ **BITUMINOUS SURFACE TREATMENT**

Item No.	Material	Rate	Sq. Yds.	Calculations	Quantity
T-30 Prime Coat	M-5.7 RT-2	0.50 Gal. per Sq. Yd.	3122.3	3122.3 x 0.50	1561.1 Gal
T-31 Surface Treatment	M-5.3 MC-40r.5	0.70 Gal. per Sq. Yd.	2973.7	2973.7 x 0.70	2081.6 Gal
T-31 Surface Treatment	N° 46 Aggregate	0.0292 Cu. Yd. per Sq. Yd.	2973.7	2973.7 x 0.0292	86.8 Cu. Yd.
T-31 Surface Treatment	N° 9 Aggregate	0.00375 Cu. Yd. per Sq. Yd.	2973.7	2973.7 x 0.00375	11.2 Cu. Yd.
T-31 Seal Coat	M-5.3 MC-40r.5	0.25 Gal. per Sq. Yd.	2973.7	2973.7 x 0.25	743.4 Gal.
T-31 Cover	N° 6 Aggregate	0.0075 Cu. Yd. per Sq. Yd.	2973.7	2973.7 x 0.0075	22.3 Cu. Yd.

⑬ **GUARD RAIL**

Sheet No	Guard Rail (Posts Only) Item I-15 Lump
8	38
Total	38

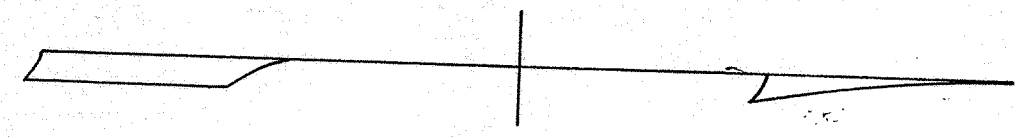
⑦ **PAVEMENT**

Location	Bituminous Prime Coat Item T-30		Bituminous Surface Treatment Item T-31		Stone Underdrain Item I-9 Lin. Ft.	Classified Embankment Item SS-112			
	Width	Calculations	Sq. Yds.	Width		Calculations	Sq. Yds.	Cu. Yd.	
Typical Section 1238.16 Lin. Ft.	21'	1238.16 x 21 x 1/8	2889.0	20	1238.16 x 20 x 1/8	2751.5	21	1238.16 x 21 x 1/8 x 8 x 1/8	642
Temp. Appr. (Sheet No 18)			233.3			222.2			52
Project (Estimated)					350				
Total			3122.3			2973.7	350		694

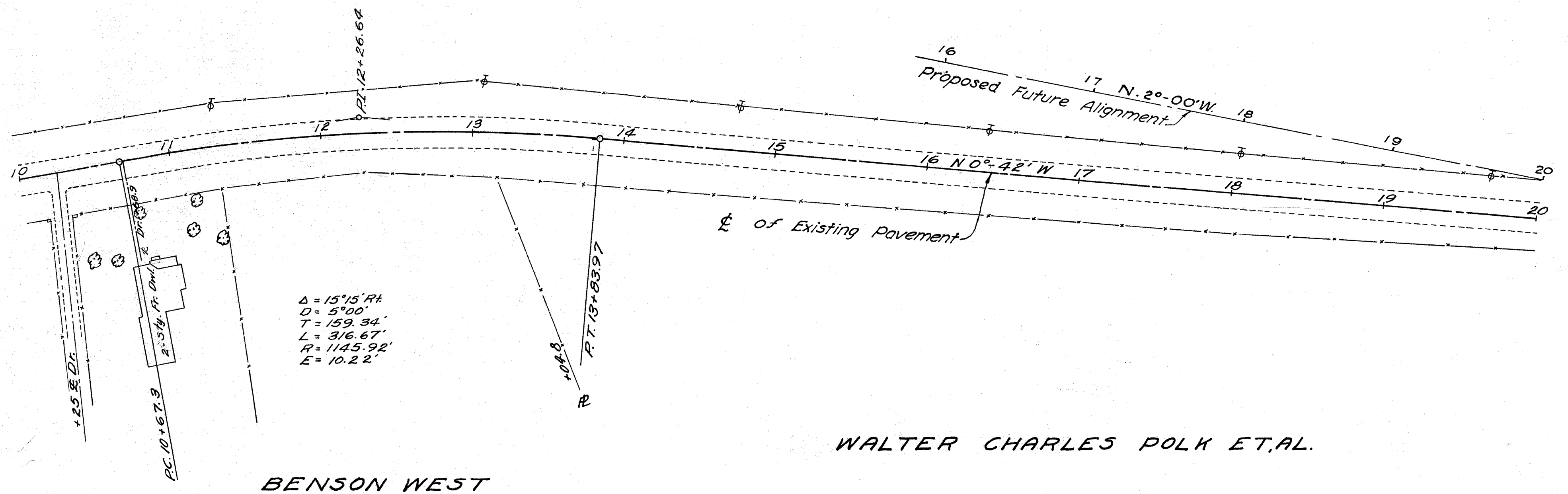
* Indicates quantity has been carried to Recap Table

GENERAL SUMMARY

ITEM No.	QUANTITY	UNIT	DESCRIPTION
GENERAL SUMMARY			
ROADWAY			
E-1	2478	Cu. Yd.	Roadway Excavation (Unclassified)
E-3	2331	Cu. Yd.	Channel Excavation
E-4	1622	Cu. Yd.	Borrow
E-11	35	M. Gal.	Water
E-12	178	Lin. Ft.	6" to 12" Pipe Removed and Disposed of
E-12	37	Lin. Ft.	24" Pipe Removed and Stored
E-9	Lump	Lump	Removal of Trees and Stumps
E-305	13632	Sq. Yd.	Seeding and Protecting Roadway Areas.
I-1	148	Lin. Ft.	12" Pipe for Driveways
I-3	10	Lin. Ft.	6" Pipe for Roadway Drainage
I-3	189	Lin. Ft.	12" Pipe for Roadway Drainage
I-8	1	Each	Standard Type 2-2-A Catch Basin
I-9	350	Lin. Ft.	Stone Underdrain (As per plan-Sheet No. 2)
I-10	130	Sq. Yd.	Riprap (Type "A" Grouted)
I-14	60	Lin. Ft.	Stone Paved Gutter (As per plan-Sheet No. 2)
I-14	154	Lin. Ft.	Concrete Paved Gutter (As per Plan-Sheet No. 2)
I-15	38	Each	Guard Rail (Posts only)
I-17	34	Cu. Yd.	Side Approaches, Mailbox Turnouts and Berm Material.
L-9	2512	Lbs.	Commercial Fertilizer (10-6-4) as per plan.
L-9	18841	Lbs.	Agricultural Ground Limestone
L-10	324	Sq. Yd.	Sodding
L-13	350	Each	Salix mutabilis (Dwarf Willow 2 1/2' to 3')
L-18	324	Sq. Yd.	Straw Mulching
S-112	694	Cu. Yd.	Classified Embankment (See Supplemental Specifications)
M-10	10	Tons	Calcium Chloride (for Temporary Roadway)
T-110	460	Cu. Yd.	Traffic Compacted Surface Course (for Temporary Roadway)
PAVEMENT			
S-5	84	Sq. Yd.	9" Reinforced Concrete Approach Slabs (See Std. Drawing No. AS-41-F)
T-30	1562	Gal.	Bituminous Prime Coat (Sec. M-5.7 RT-2)
T-30	9	Gal.	Bituminous Tack Coat, Sec. M-5.5 M5-1 including sand cover.
T-31	2082	Gal.	Bituminous Surface Treatment, Bituminous Material, Sec. M-5.3 MC-4 or MC-5
T-31	87	Cu. Yd.	Bituminous Surface Treatment, No. 16 Aggregate for Choke
T-31	12	Cu. Yd.	Bituminous Surface Treatment, No. 9 Aggregate for Choke
T-31	744	Gal.	Bituminous Surface Treatment, Bituminous Material, Sec. M-5.3 MC-4 or MC-5 for Seal Coat
T-31	23	Cu. Yd.	Bituminous Surface Treatment, No. 6 Aggregate for Cover
T-35	5.8	Cu. Yds.	Asphaltic Concrete Surface Course, Type "A"
STRUCTURES - 20 FT. SPAN AND UNDER			
E-2	45	Cu. Yd.	Excavation for Structures
S-1	5.2	Cu. Yd.	Concrete for Structures (Class "C")
S-4	159	Lbs.	Reinforcing Steel
S-24	Lump	Lump	Removal of Existing Structures
S-27	50	Lin. Ft.	24" Pipe for Roadway Culverts
STRUCTURES OVER 20 FT. SPAN			
For Summary of Quantities See Sheet No. 30			
Special	Lump	Lump	Maintaining Traffic (See note on Sheet No. 3)



WALTER CHARLES POLK ET AL.

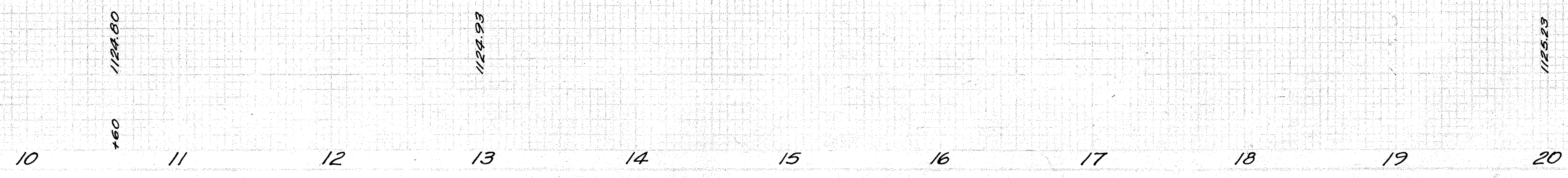
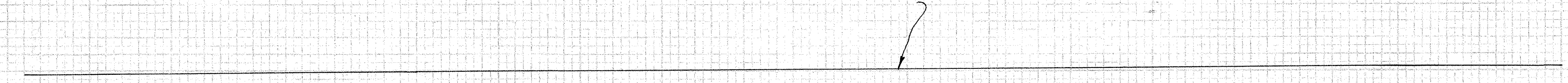


WALTER CHARLES POLK ET AL.

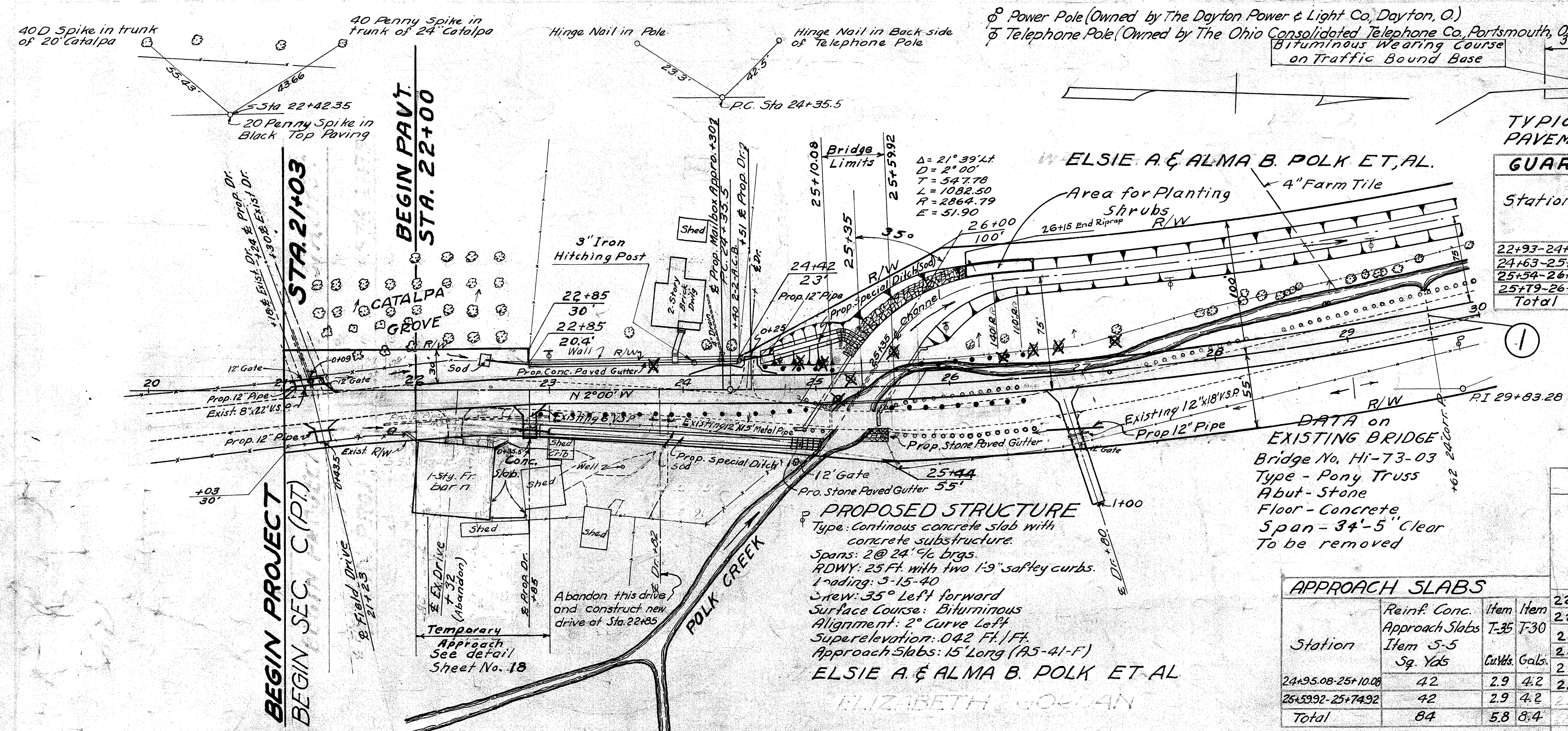
BENSON WEST

1130
1125
1120

Profile of Existing Pavement



STA. 10+00 To STA. 20+00



TYPICAL SECTION OF ADJOINING PAVEMENT AT STA. 22+00

GUARD RAIL

Station	Guard Rail Side	Posts only Item I-15 Each
22+93-24+93	Rt.	17
24+63-25+13	Lt.	5
25+54-26+54	Rt.	9
25+79-26+54	Lt.	7
Total		38

DRIVES AND APPROACHES

Station	Side	12" Pipe for Driveways		See Sheet No.
		Item I-17 Cu. Yds	Item I-1 Lin. Ft.	
21+23	Rt.	3	18	19
21+24	Lt.	4	30	19
22+85	Rt.	3	28	18
24+51	Lt.	4	26	19
26+80	Rt.	9	42	20
Total		23	144	

DRAINAGE

Station to Station	Side	12" Pipe for Roadway Drainage			Stone Paved Gutter (Grouted) Item I-14 Lin. Ft.	See Sheet No.
		Item I-3 Lin. Ft.	Concrete Paved Gutter as per plan Item I-4 Lin. Ft.	Standard Type 22A C.B. Item I-8 Each		
22+50-24+39	Lt.	189			21	
22+85-24+38	Lt.		154		21	
24+40	Lt.			1	21	
24+77-24+87	Rt.				2	
25+20-25+34	Lt.				21	
25+30-25+50	Rt.				2	
Total		189	154	1	50	

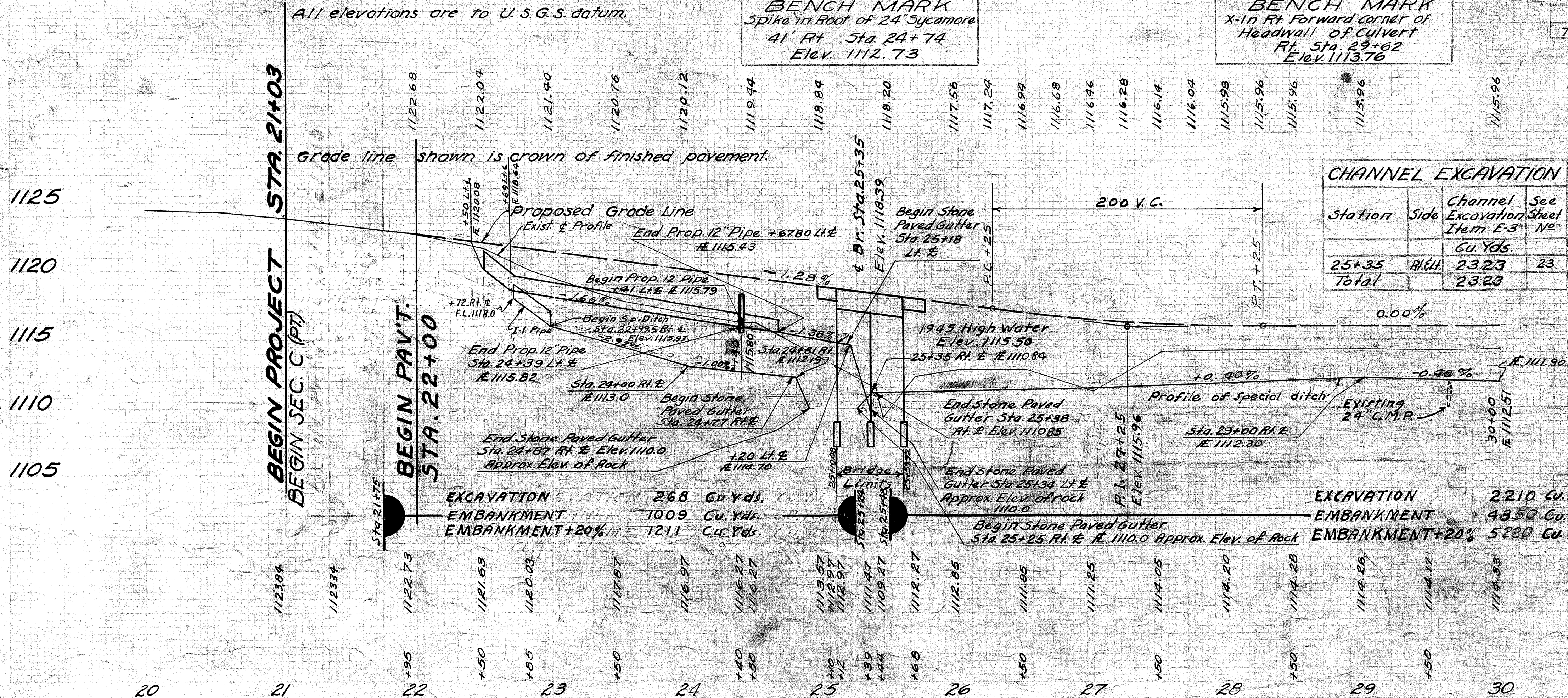
APPROACH SLABS

Station	Reinf. Conc. Item 5-5 Sq. Yds.	Approach Slabs	
		Item T-35 Cu. Yds.	Item T-30 Gals.
24+95.08-25+10.08	42	2.9	4.2
25+33.92-25+74.92	42	2.9	4.2
Total	84	5.8	8.4

All elevations are to U.S.G.S. datum.

BENCH MARK
 Spike in Root of 24 Sycamore
 41' Rt Sta 24+74
 Elev. 1112.73

BENCH MARK
 X-in Rt Forward corner of
 Headwall of Culvert
 Rt. Sta. 29+62
 Elev. 1113.76



CHANNEL EXCAVATION

Station	Side	Channel Excavation Item E-3 Cu. Yds.	See Sheet No.
25+35	Rt.	2323	23
Total		2323	

EROSION CONTROL

Station	Side	Seeding and Protecting Roadway Area		Salix mutabilis Dwarf Willow Size: 2 1/2 to 3' Item L-13 Each	Sodding Item L-10 Sq. Yds.	See Planting Plan Sheet No.	See Sheet No.
		Item E-305 Sq. Yds.	Item L-13 Each				
21+75-25+24	Rt.	1578					11
25+48-30+00	Rt.	3926					14
22+47-22+52	Lt.				6		8
22+92-24+77	Rt.				185		8
24+59-25+18	Lt.				66		8
26+18-26+68	Lt.			115			2
25+35 (Channel)	Rt.	2476					23
Total		7980	115	257			

STRUCTURES 20 FT. SPAN AND UNDER

No.	Station	Existing Structure Type	Existing Structure Size	Existing Structure Length	Proposed Structure Type	Proposed Structure Size	Proposed Structure Length	Sh. No.
1	29+62	C.M.P.	24"	37.2'	None			22

PIPE REMOVAL

Station	Side	Pipe Removed and Disposed of Item E-12		
		6" VSPD 8" VSPD 12" VSPD 12" Metal Lin. Ft.	Item I-15 Each	See Sheet No.
21+24	Lt.		22	
21+77-23+00	Rt.	123		
23+82	Rt.			15
26+80	Rt.			18
Total		123	22	15

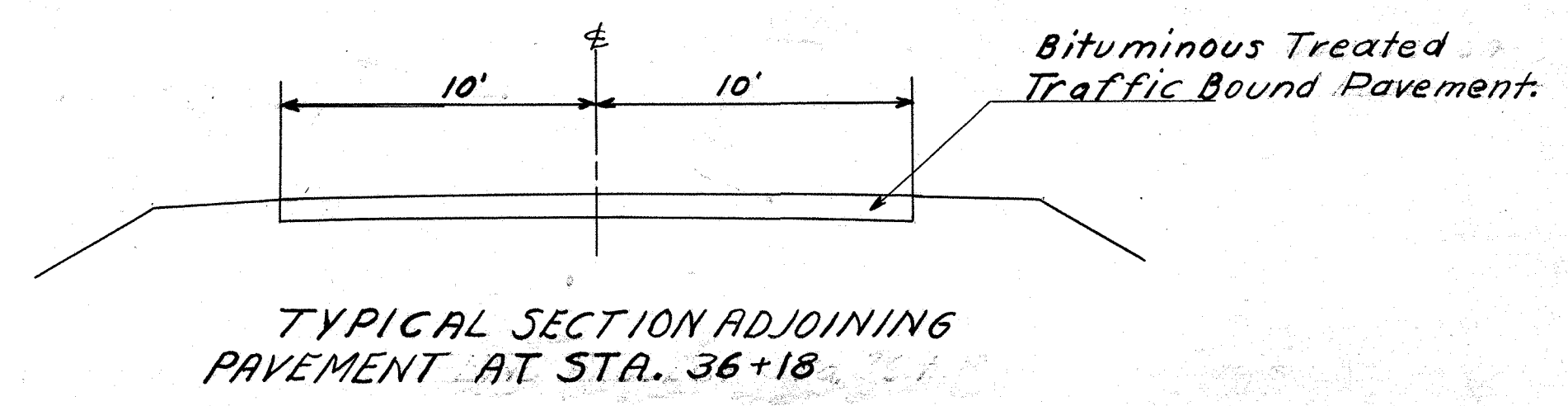
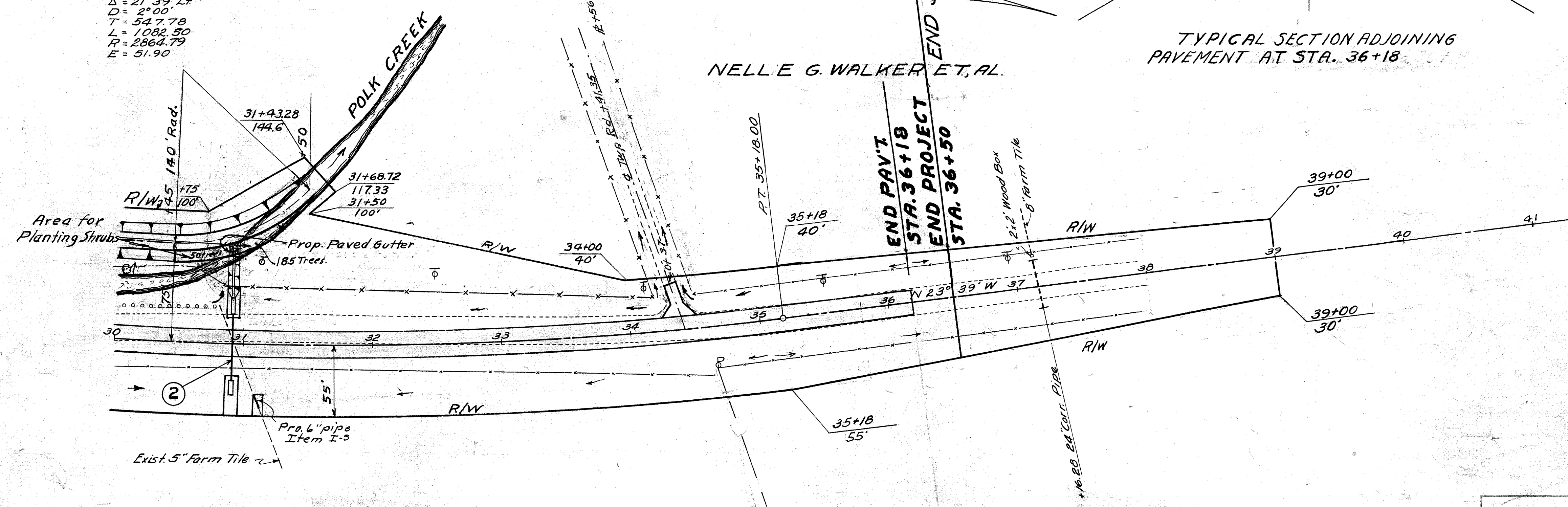
RIPRAP

Station	Side	Riprap Type A (Grouted) Item I-10 Sp. Yd.	See Sheet No.
25+10-26+15	Lt.	130	
Total		130	

Sta. 21+35 to Sta. 30+00

ELSIE A. & ALMA B. POLK ET AL.

$\Delta = 21^{\circ}39' Lt$
 $D = 2^{\circ}00'$
 $T = 547.78$
 $L = 1082.30$
 $R = 2864.79$
 $E = 31.90$



DRIVES AND APPROACHES

Station	Side	Side Appro. Mailbox Turnouts & Berm Mat'l. Item I-17 Cu.Yds.	See Sheet No.
34+43.5	Lt.	5	19
Total		5	

DRAINAGE

Station	6\"/>	
30+90	10	22
Total	10	

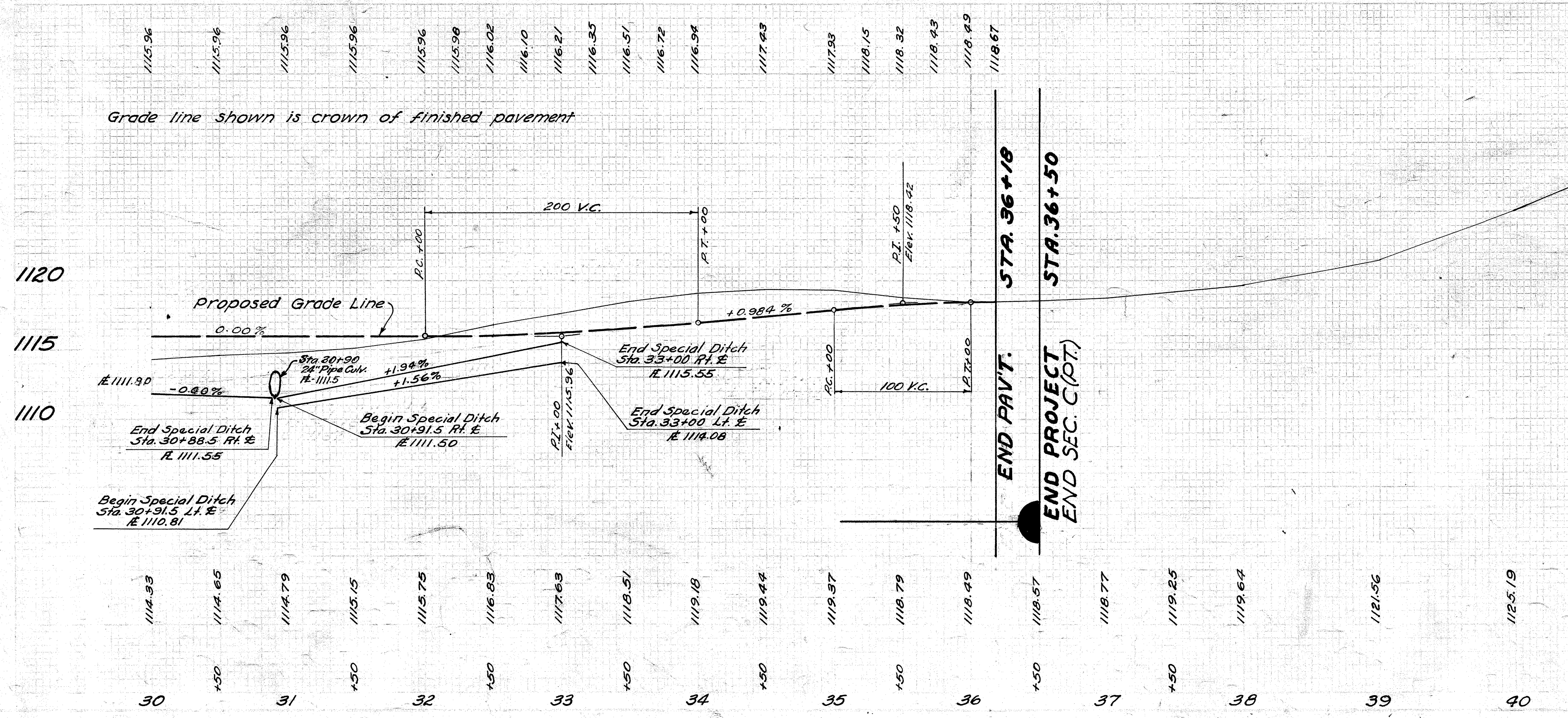
ELSIE A. & ALMA B. POLK ET AL.

ELIZABETH GORDON, AL.

EROSION CONTROL

Station	Seeding and Protecting Side Roadway Areas Item E-305 Sq. Yds.	Sodding Item L-10 Sq. Yds.	Salix mutabilis Dwarf Willow 2 1/2' to 3' Item L-13 Each	See Planting Plan Sheet No.	See Sheet No.
30+00-36+50	5652				15
30+90		67			22
30+45-30+70.5 Lt.			50	2	9
30+79.5-31+50 Lt.			185	2	9
Total	5652	67	235		

Grade line shown is crown of finished pavement

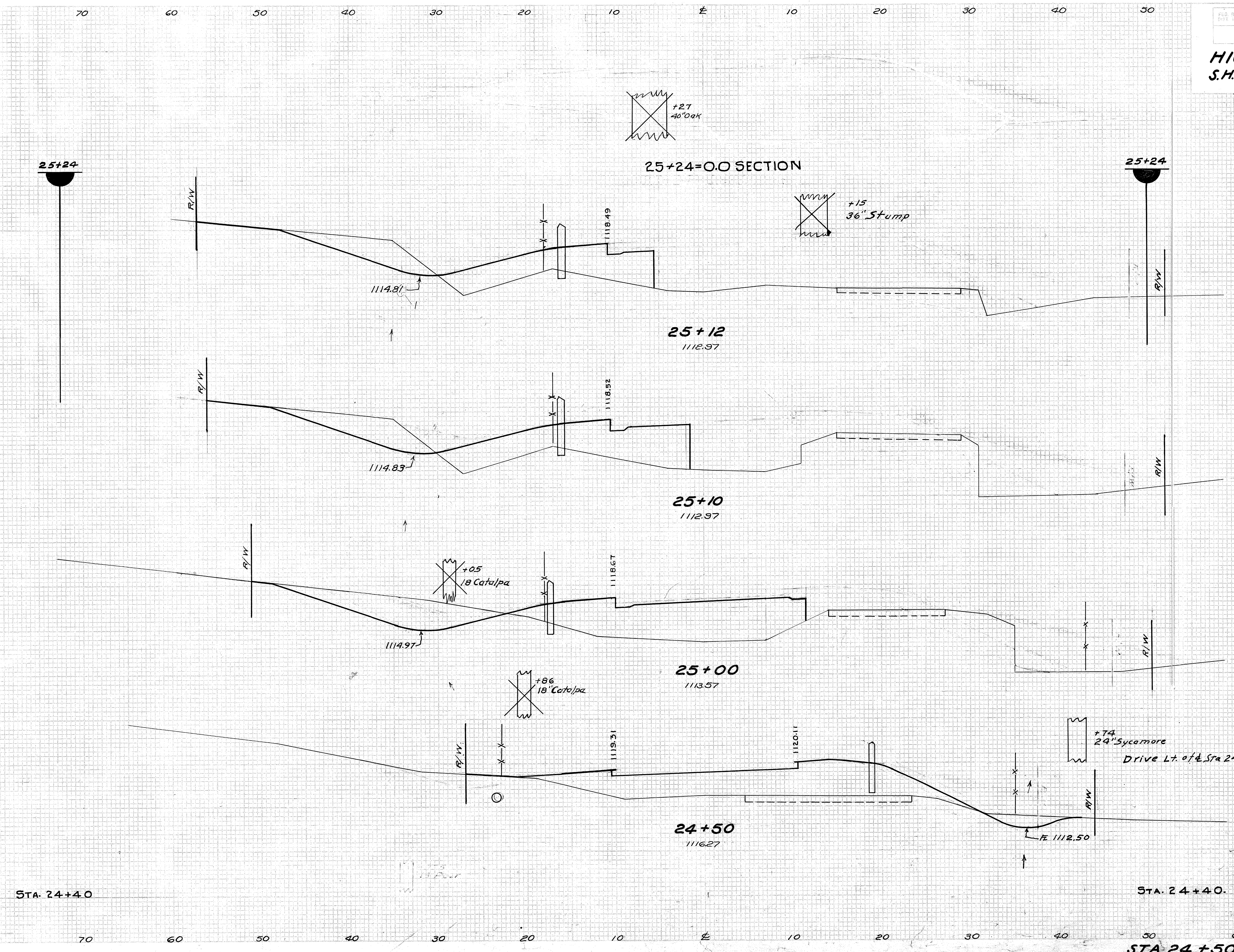


STRUCTURES - 20 FT. SPAN & UNDER

No	Station	Existing Structure		Proposed Structure			Sheet No.
		Type	Size	Type	Size	Length	
2	30+90	None		Pipe	24"	50'	22

Sta. 30+00 to Sta. 36+50

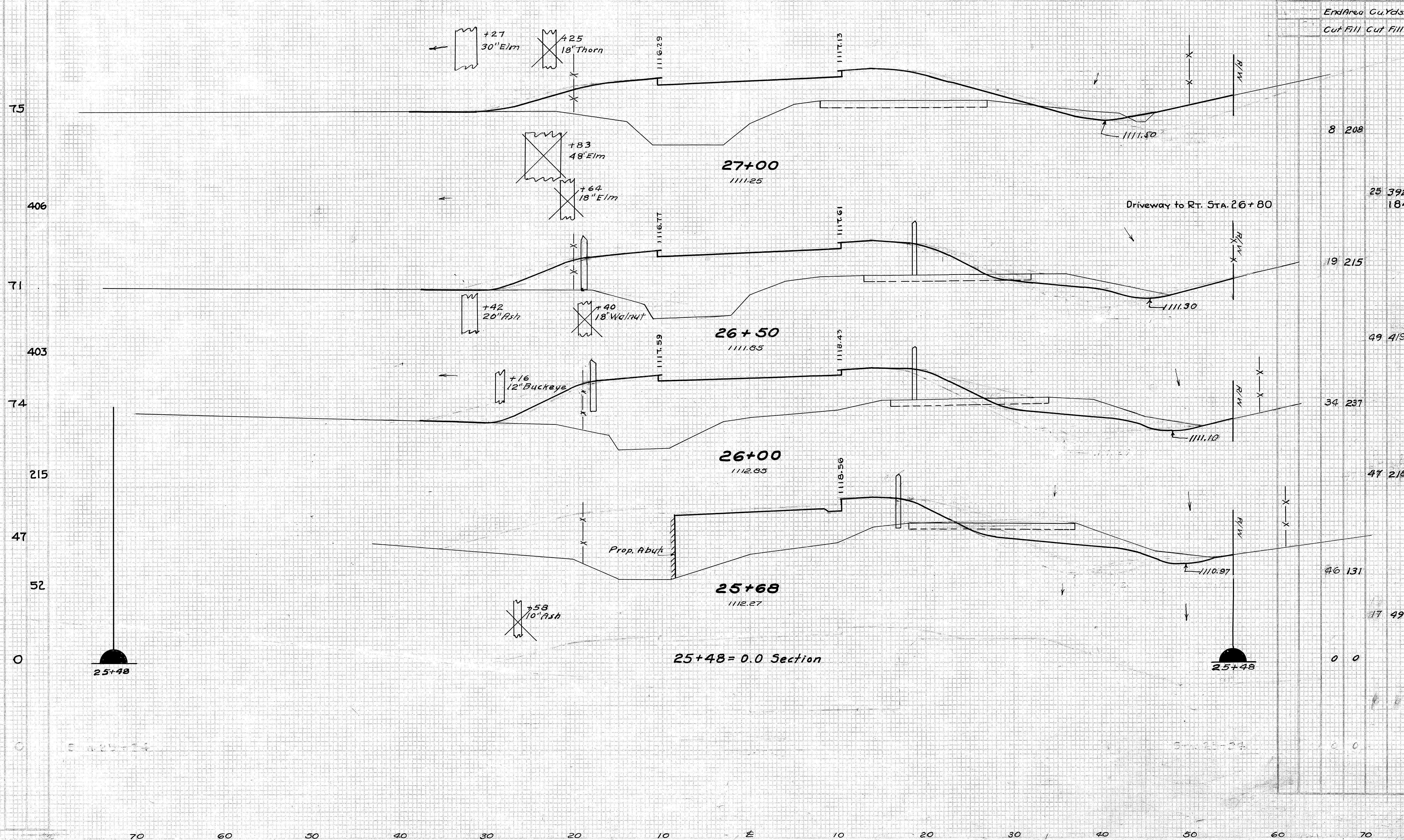
SEEDING	WIDTH	AREA
0		
32		
48		
10		
47		
49		
42		
261		
52		
54		
46		



Sta.	End Area		Cu. Yds.	
	Cut	Fill	Cut	Fill
25+24	0	0		
25+12	29	70	6	16
25+10	33	93	2	6
25+00	16	40		
24+50	51	121		
24+40	55	226		
24+50	8	123	2	
24+40	4	48		
24+40	12	154		

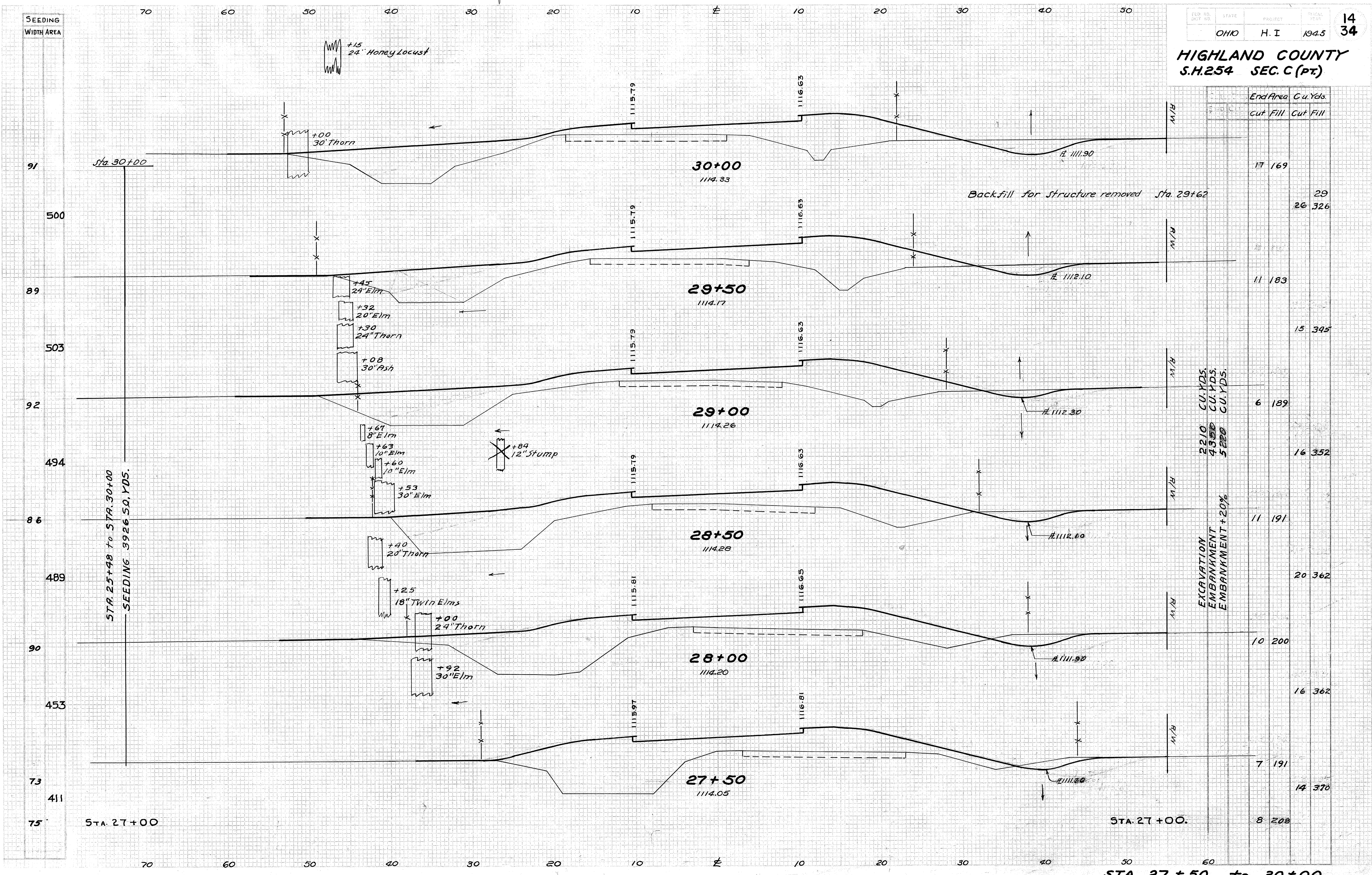
STA. 24+50 to 25+12

SEEDING
WIDTH AREA



End Area	Cu. Yds.
Cut	Fill
8	208
25	392
19	215
49	419
34	237
47	218
46	131
17	49
0	0
0	0

**HIGHLAND COUNTY
S.H.254 SEC. C (PT.)**

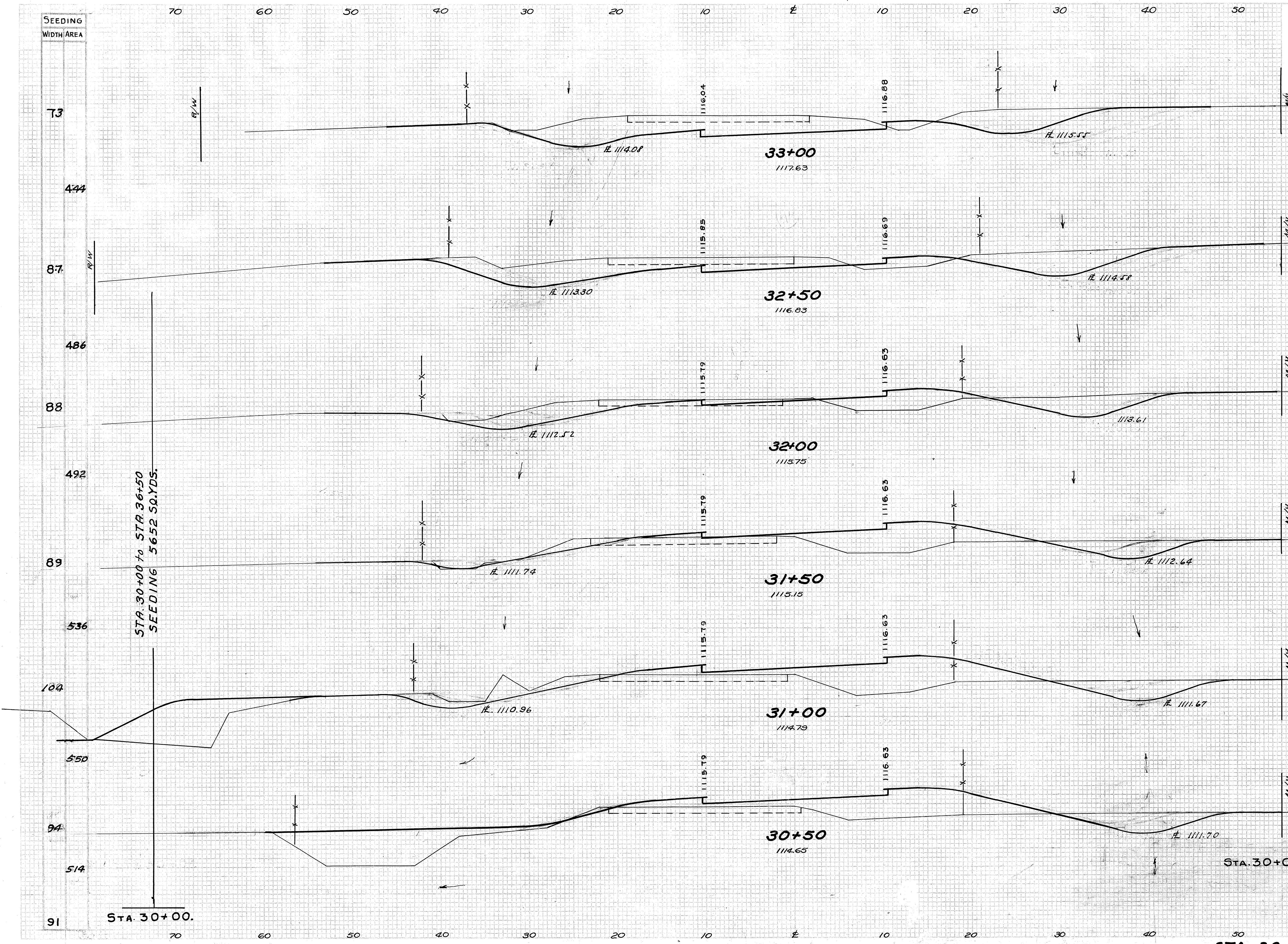


Station	End Area	Cu. Yds.
30+00	17	169
29+50	11	183
29+00	6	189
28+50	11	191
28+00	10	200
27+50	7	191
27+00	8	208

Station	Cut	Fill	Cu. Yds.
30+00	26	29	326
29+50	15	345	
29+00	2210	4350	5220
28+50	16	352	
28+00	20	362	
27+50	16	362	
27+00	14	378	

EXCAVATION
EMBANKMENT
EMBANKMENT +20%

STA. 25+98 to STA. 30+00
SEEDING 3926.50 YDS.



Sta.	End Area		Cu. Yds.	
	Cut	Fill	Cut	Fill
113		4		
114		12	210	15
114		12	159	39
115		30		
116		30	78	85
117		62		
118		62	72	193
119		147		
120		148	72	273
121		148		
122		294	40	294
123		169		

STA. 30+50 to 33+00

**HIGHLAND COUNTY
S.H.254 SEC. C (PT)**



Sta.	End Area Cu Yds	
	Cut	Fill
33+00	113	4
33+50	121	4
34+00	148	0
34+50	144	0
35+00	117	0
35+50	84	2
36+00	93	17

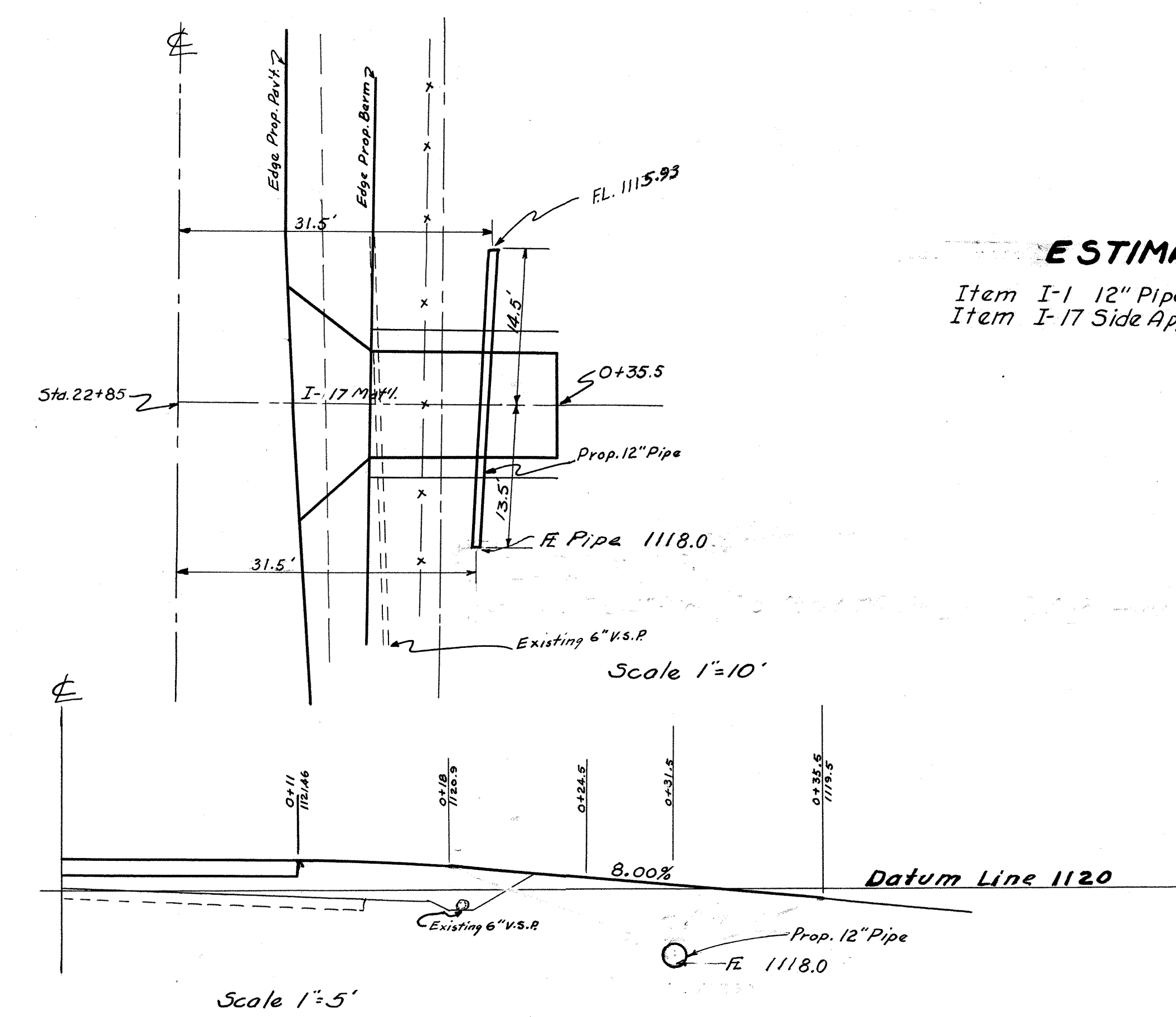
STA. 33+00.

STA. 33+50 to 36+00

HIGHLAND COUNTY
S. H. 254 Sec. C (Pt.)

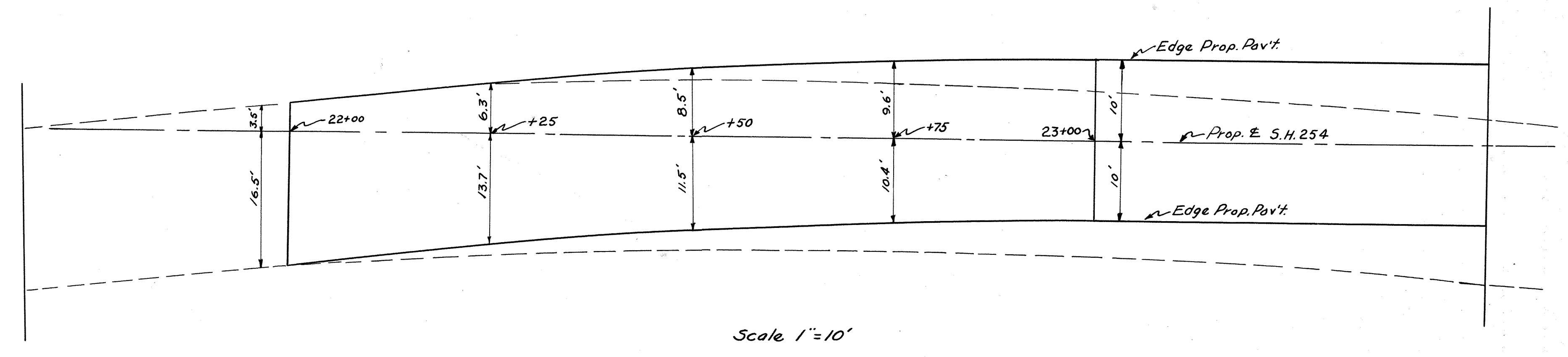
CURVE TABLE

Station	Profile Grade	Elev. Edge of Pav't. (Left)	Distance to Lt. E.P. from Survey Line	Elev. E. of Pav't.	Distance to Rt. E.P. from Survey Line	Elev. Edge of Pav't. (Right)
22+50	1122.04	1121.87	10'	1122.04	10'	1121.87
+75	1121.72	1121.55		1121.72		1121.56
+85	1121.60	1121.43		1121.60		1121.46
23+00	1121.40	1121.23		1121.40		1121.31
+25	1121.08	1121.91		1121.08		1121.12
+50	1120.76	1120.59		1120.76		1120.94
+75	1120.44	1120.27		1120.51		1120.75
24+00	1120.12	1119.95		1120.26		1120.56
+25	1119.80	1119.63		1120.0		1120.36
+40	1119.61	1119.44		1119.82		1120.21
+50	1119.48	1119.31		1119.71		1120.11
+75	1119.16	1118.99		1119.41		1119.83
25+00	1118.84	1118.67		1119.09		1119.51
+10	1118.71	1118.54		1118.96		1119.38
+12	1118.69	1118.52		1118.94		1119.36
+25	1118.52	1118.35		1118.77		1119.19
+39	1118.34	1118.17		1118.59		1119.01
+44	1118.28	1118.11		1118.53		1118.95
+50	1118.20	1118.03		1118.45		1118.87
+68	1117.87	1117.70		1118.12		1118.54
+75	1117.80	1117.63		1118.05		1118.47
26+00	1117.56	1117.59		1118.01		1118.43
+25	1117.24	1117.07		1117.49		1117.91
+50	1116.94	1116.77		1117.19		1117.61
+75	1116.68	1116.51		1116.93		1117.35
27+00	1116.46	1116.29		1116.71		1117.13
+25	1116.28	1116.01		1116.43		1116.85
+50	1116.14	1115.97		1116.39		1116.81
+75	1116.04	1115.87		1116.29		1116.71
28+00	1115.98	1115.81		1116.23		1116.65
+25	1115.96	1115.79		1116.21		1116.63
+50	1115.96	1115.79		1116.21		1116.63
+75	1115.96	1115.79		1116.21		1116.63
29+00	1115.96	1115.79		1116.21		1116.63
+25	1115.96	1115.79		1116.21		1116.63
+50	1115.96	1115.79		1116.21		1116.63
+75	1115.96	1115.79		1116.21		1116.63
30+00	1115.96	1115.79		1116.21		1116.63
+25	1115.96	1115.79		1116.21		1116.63
+50	1115.96	1115.79		1116.21		1116.63
+75	1115.96	1115.79		1116.21		1116.63
31+00	1115.96	1115.79		1116.21		1116.63
+25	1115.96	1115.79		1116.21		1116.63
+50	1115.96	1115.79		1116.21		1116.63
+75	1115.96	1115.79		1116.21		1116.63
32+00	1115.96	1115.79		1116.21		1116.63
+25	1115.98	1115.81		1116.23		1116.65
+50	1116.02	1115.85		1116.27		1116.69
+75	1116.10	1115.93		1116.35		1116.77
33+00	1116.21	1116.04		1116.46		1116.88
+25	1116.35	1116.18		1116.60		1117.02
+50	1116.51	1116.33		1116.75		1117.17
+75	1116.72	1116.55		1116.97		1117.39
34+00	1116.94	1116.77		1117.19		1117.61
+25	1117.18	1117.01		1117.43		1117.85
+50	1117.43	1117.26		1117.68		1118.10
+75	1117.68	1117.51		1117.91		1118.31
35+00	1117.93	1117.76		1118.07		1118.40
+25	1118.15	1117.98		1118.21		1118.45
+50	1118.32	1118.15		1118.32		1118.44
+75	1118.43	1118.26		1118.43		1118.40
36+00	1118.49	1118.32		1118.49		1118.34
+18	1118.52	1118.35		1118.52		1118.35



ESTIMATED QUANTITIES
 Item I-1 12" Pipe for Drive ways ————— 28 Lin. Ft.
 Item I-17 Side Approaches Mailbox Turnouts & Berm Mat'l. — 3 Cu. Yds.

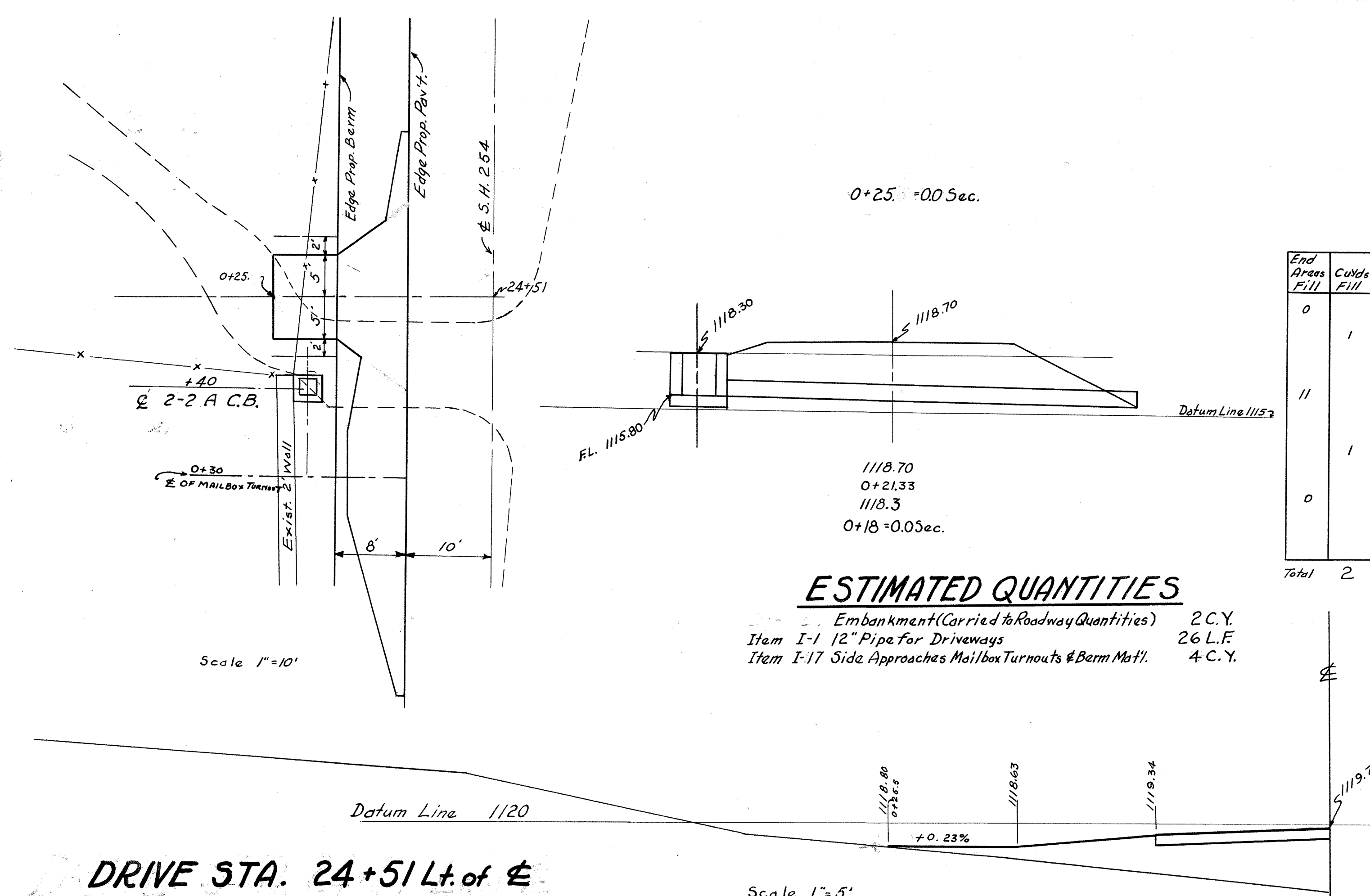
DRIVE STA. 22+85 Rt. of E



ESTIMATED QUANTITIES
 Item 55-112 Classified Embankment (2-4" Courses) — 52 Cu. Yds.
 Item T-31 Bituminous Surface Treatment — 222.2 Sq. Yds.
 Item T-30 Bituminous Prime Coat — 233.3 Sq. Yds.

DETAIL OF TEMPORARY APPROACH

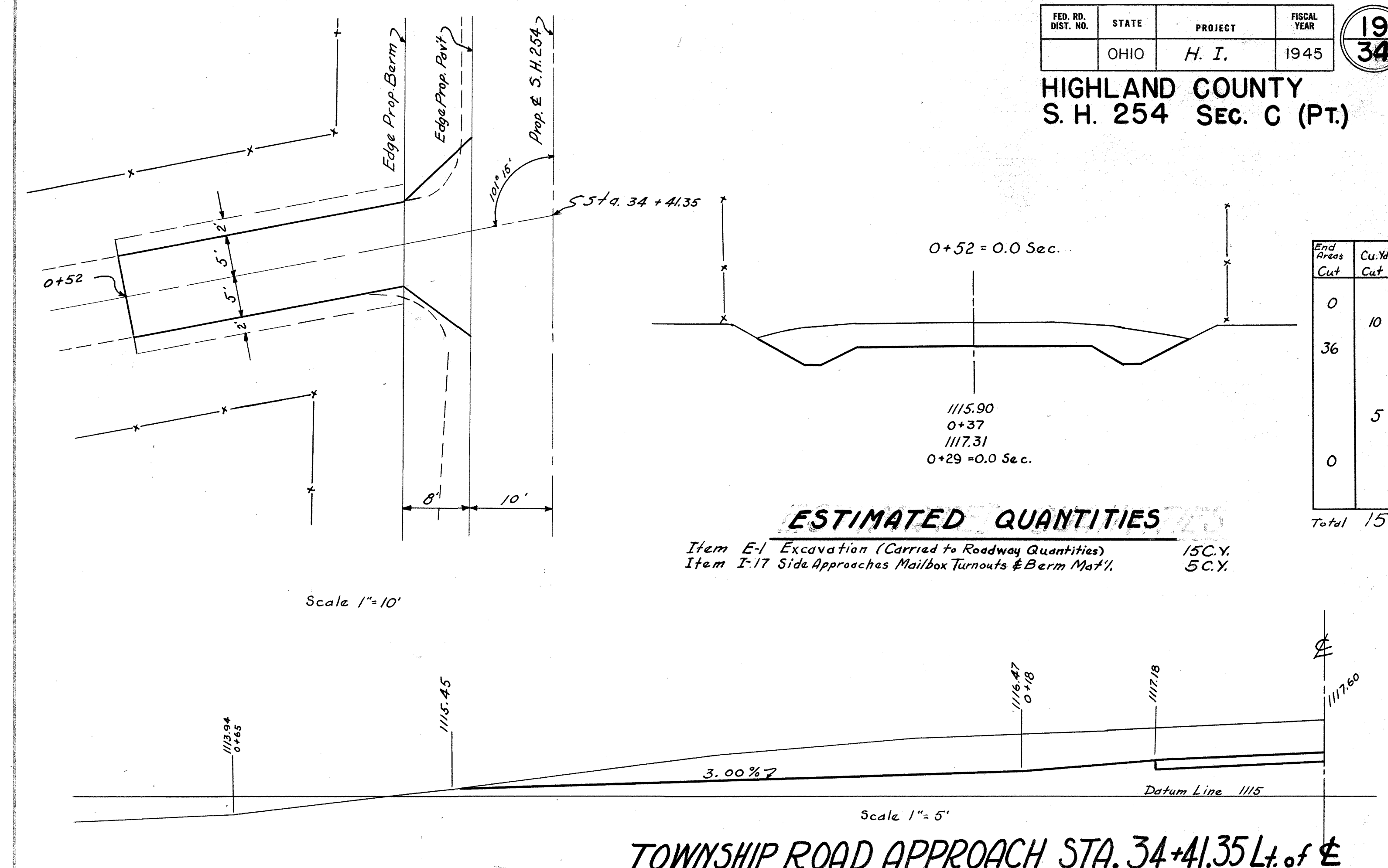
HIGHLAND COUNTY
S. H. 254 SEC. C (PT.)



ESTIMATED QUANTITIES

Embankment (Carried to Roadway Quantities) 2 C.Y.
Item I-1 12" Pipe for Driveways 26 L.F.
Item I-17 Side Approaches Mailbox Turnouts & Berm Mat'l. 4 C.Y.

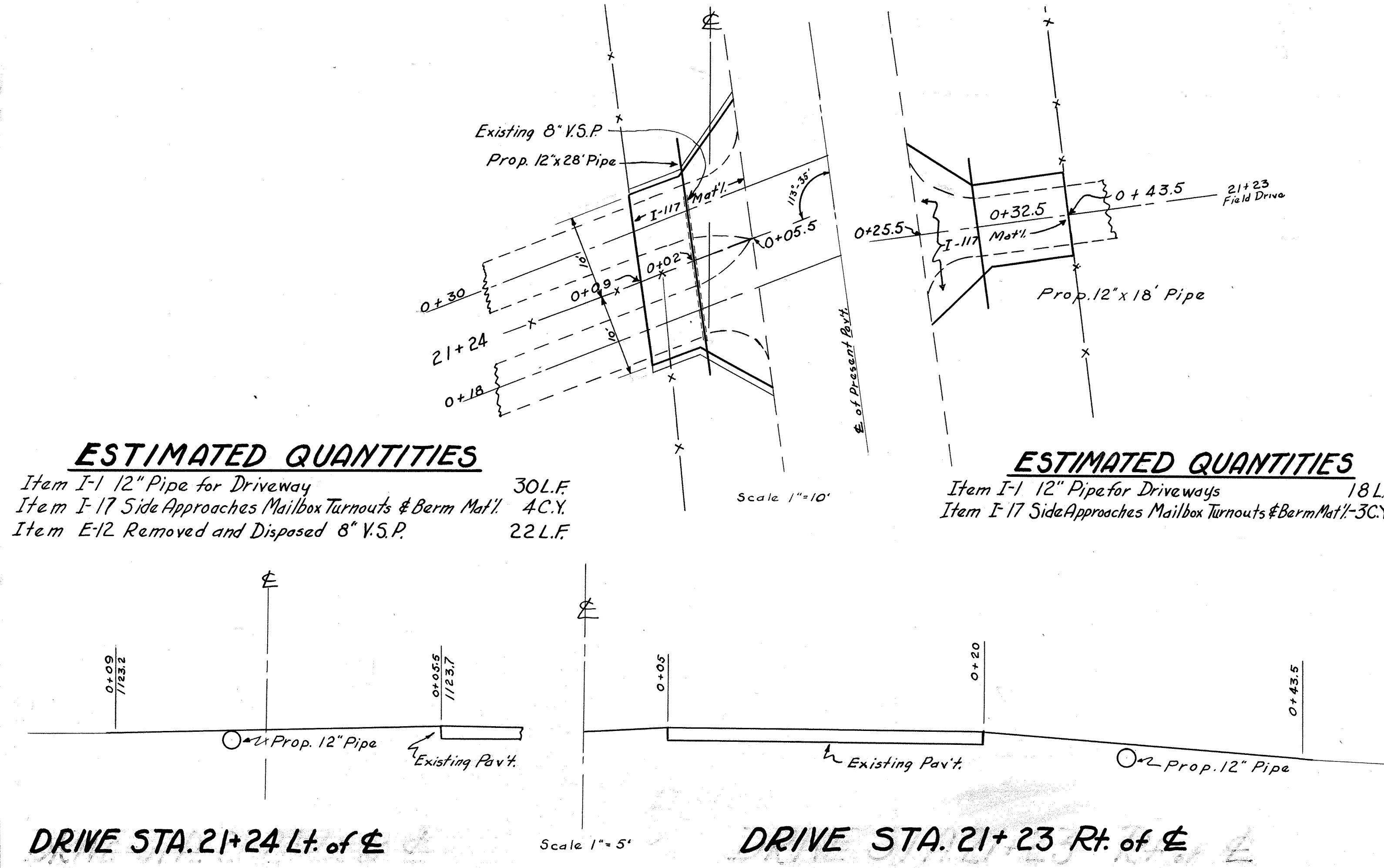
End Areas Fill	Cu Yds. Fill
0	1
11	1
0	
Total 2	



ESTIMATED QUANTITIES

Item E-1 Excavation (Carried to Roadway Quantities) 15 C.Y.
Item I-17 Side Approaches Mailbox Turnouts & Berm Mat'l. 5 C.Y.

End Areas Cut	Cu. Yds. Cut
0	10
36	5
0	
Total 15	

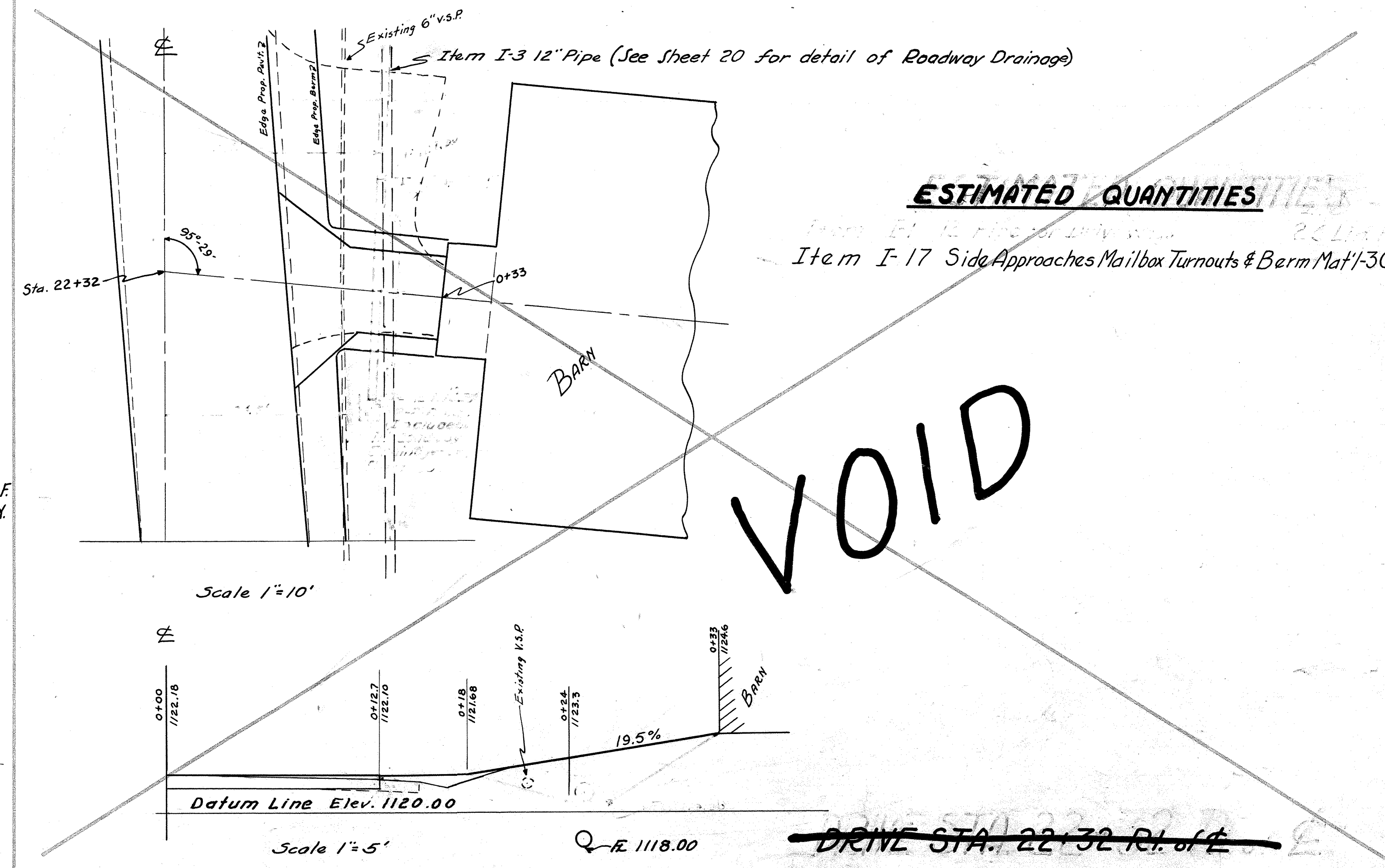


ESTIMATED QUANTITIES

Item I-1 12" Pipe for Driveway 30 L.F.
Item I-17 Side Approaches Mailbox Turnouts & Berm Mat'l. 4 C.Y.
Item E-12 Removed and Disposed 8" V.S.P. 22 L.F.

ESTIMATED QUANTITIES

Item I-1 12" Pipe for Driveways 18 L.F.
Item I-17 Side Approaches Mailbox Turnouts & Berm Mat'l. 3 C.Y.

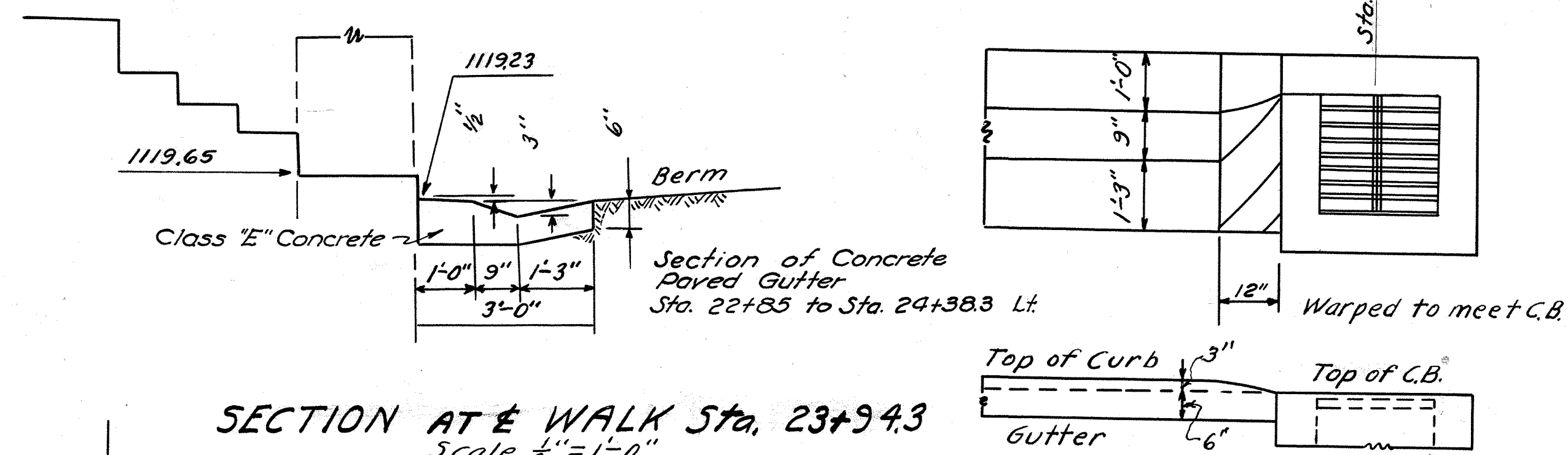


ESTIMATED QUANTITIES

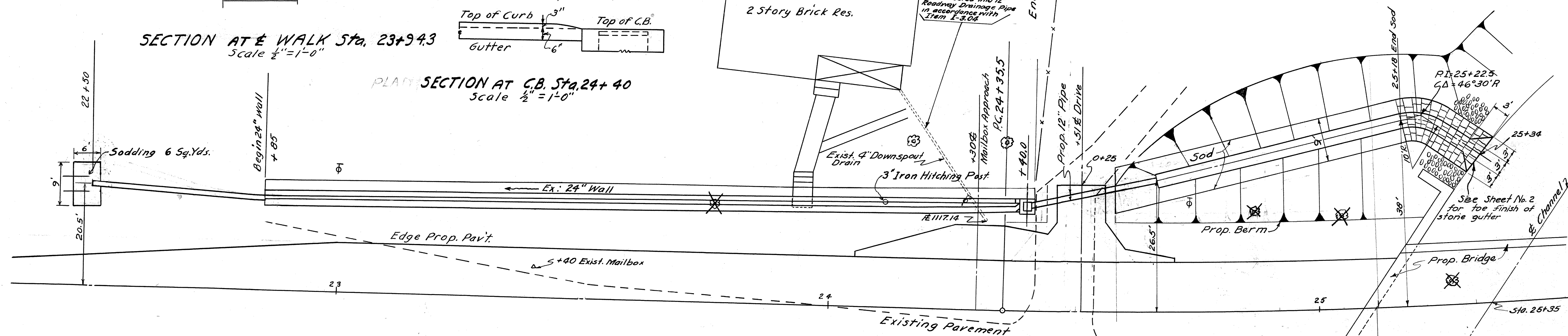
Item I-1 12" Pipe for Driveway 22 L.F.
Item I-17 Side Approaches Mailbox Turnouts & Berm Mat'l. 3 C.Y.

VOID

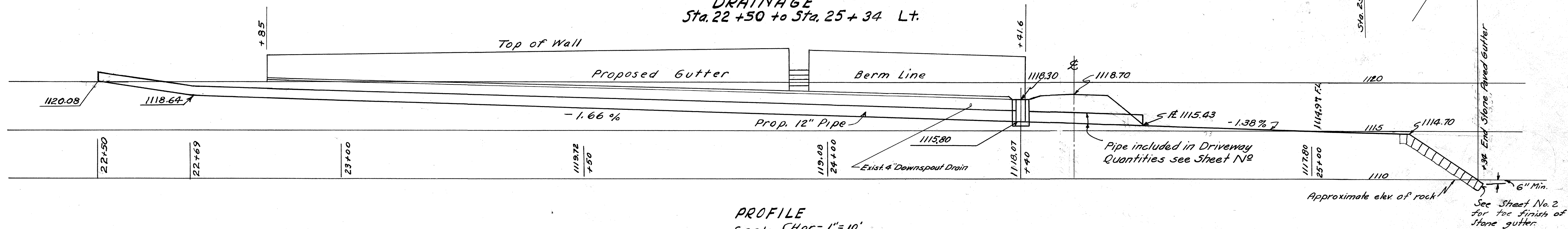
DETAILS OF CONCRETE PAVED GUTTER



PLAN SECTION AT C.B. Sta. 24+40
Scale 1/2" = 1'-0"



PLAN DRAINAGE
Scale 1" = 10'
Sta. 22+50 to Sta. 25+34 Lt.

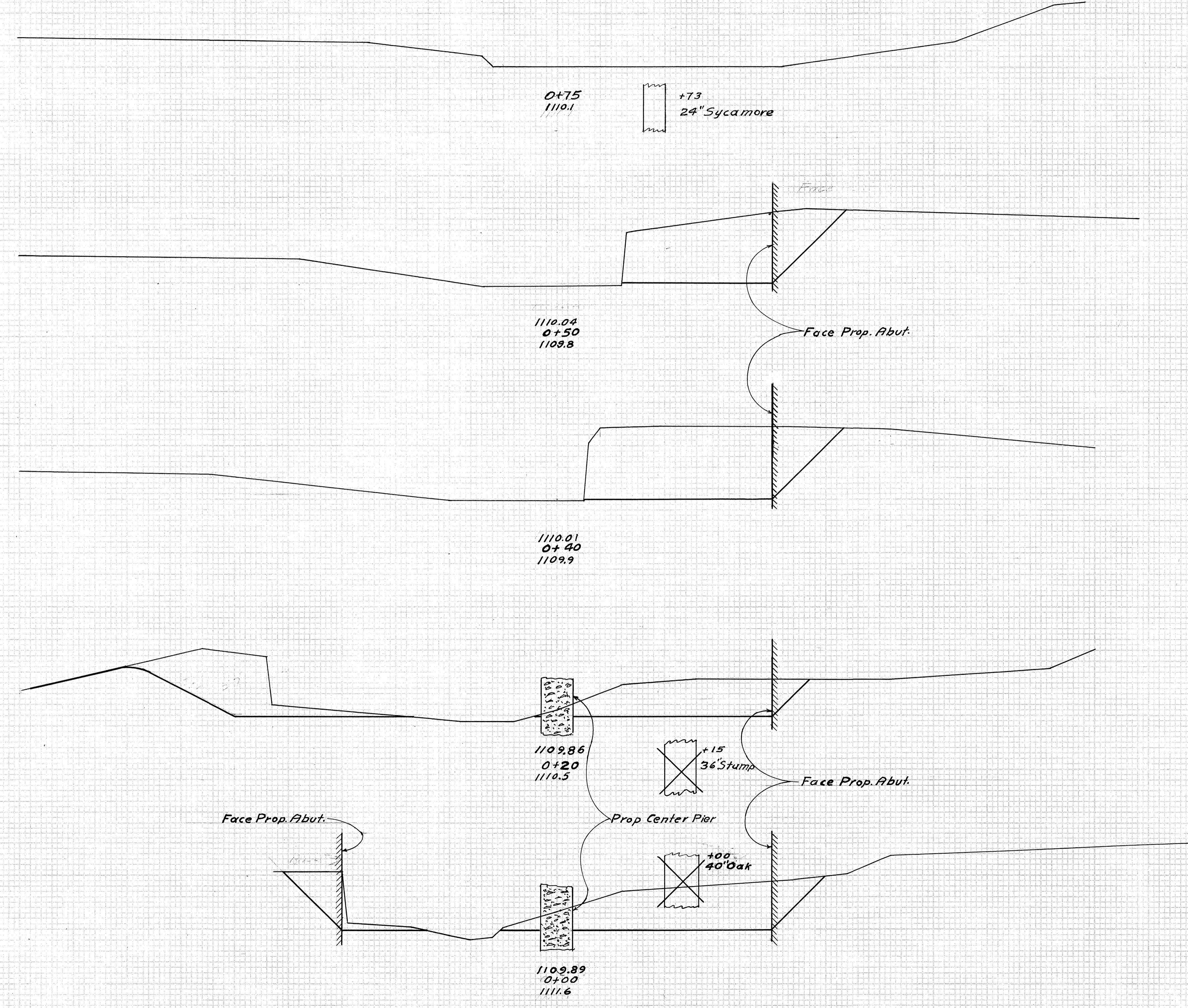


ESTIMATED QUANTITIES

Item I-3 12" Pipe for Roadway Drainage	189 Lin. Ft.
Item I-8 Type 2-2A Catch Basin	1 Each
Item I-14 Concrete Paved Gutter	154 Lin. Ft.
Item I-14 Stone Paved Gutter	18 Lin. Ft.
Item L-10 Sodding	66 Sq. Yds.

SEEDING
WIDTH PREP

50 40 30 20 10 0 10 20 30 40 50

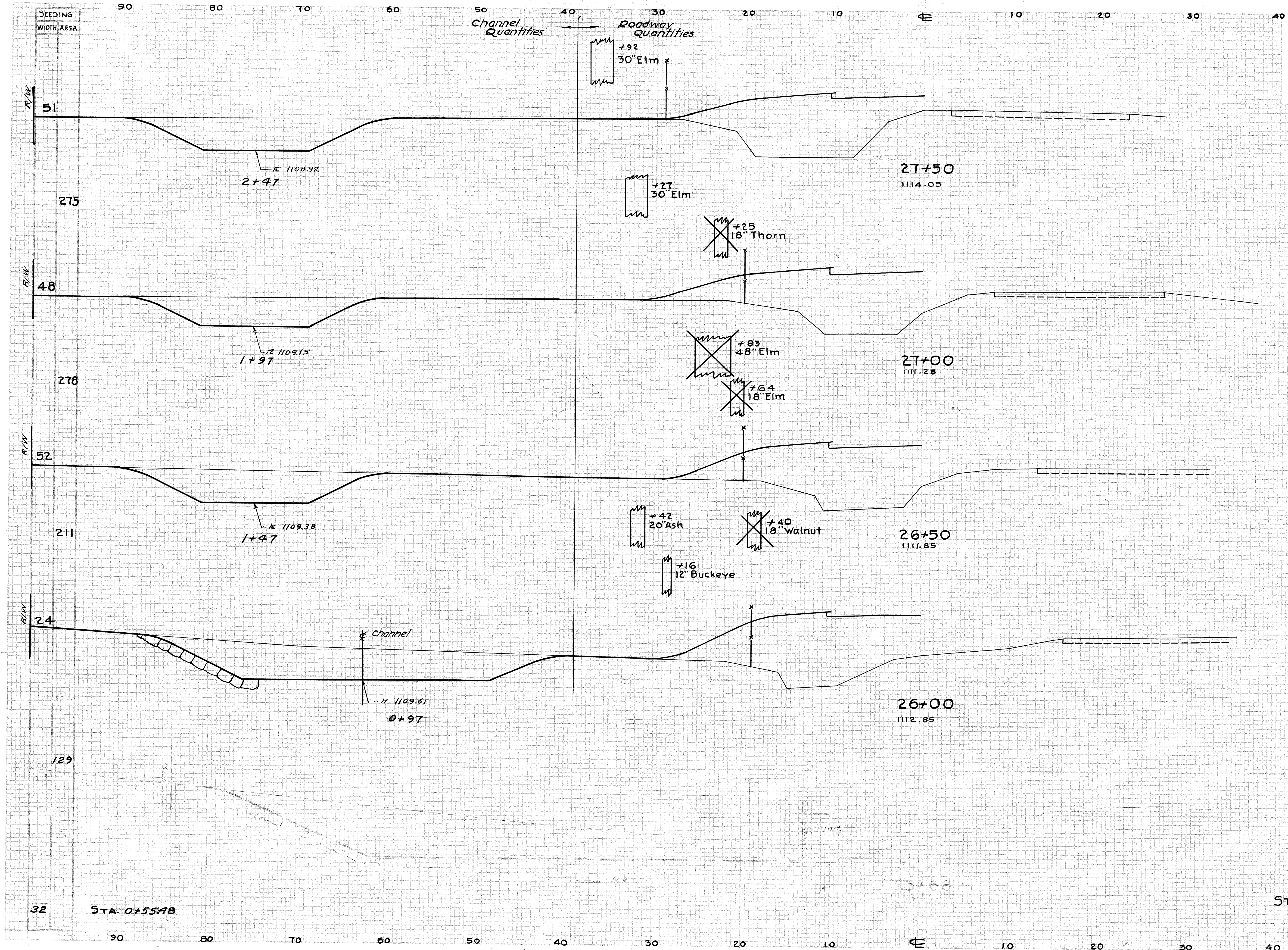


CHANNEL Seeding 2476 Sq Yds.

CHANNEL - Excavation 2323 Cu. Yds.

END AREA		Cu. Yds.	
CUT	FILL	CUT	FILL
0	0		
		46	0
100	0		
		44	0
136	0		
		94	0
119	0		
		83	0
105	0		

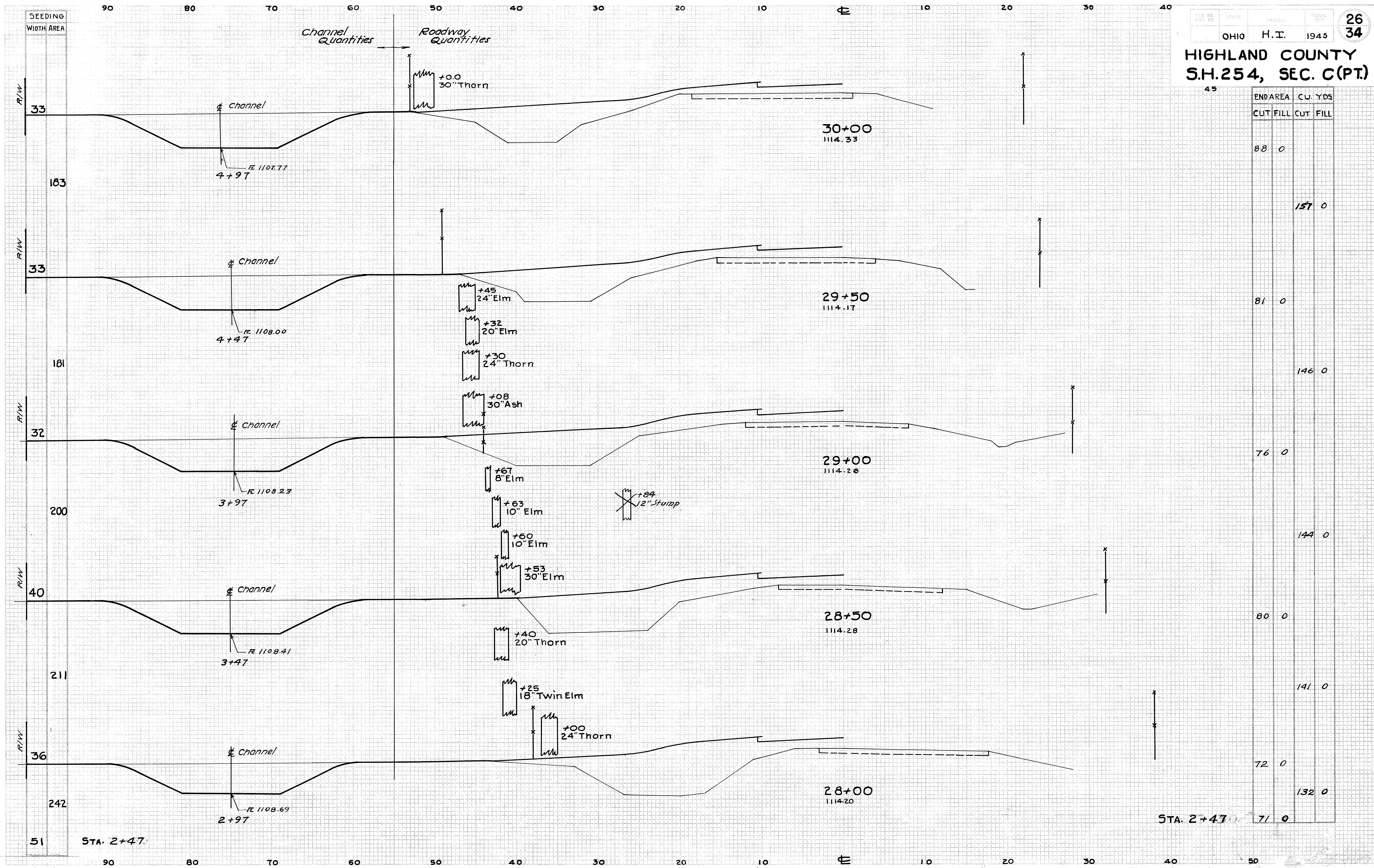
50 40 30 20 10 0 10 20 30 40 50



END AREA	CUT	FILL	CUT	FILL	CU. YDS.
71	0				
					122 0
61	0				
					121 0
70	0				
					184 0
129	0				
					242 0
					186 0

STA. 0+55.48

STA. 0+55.48 186 0



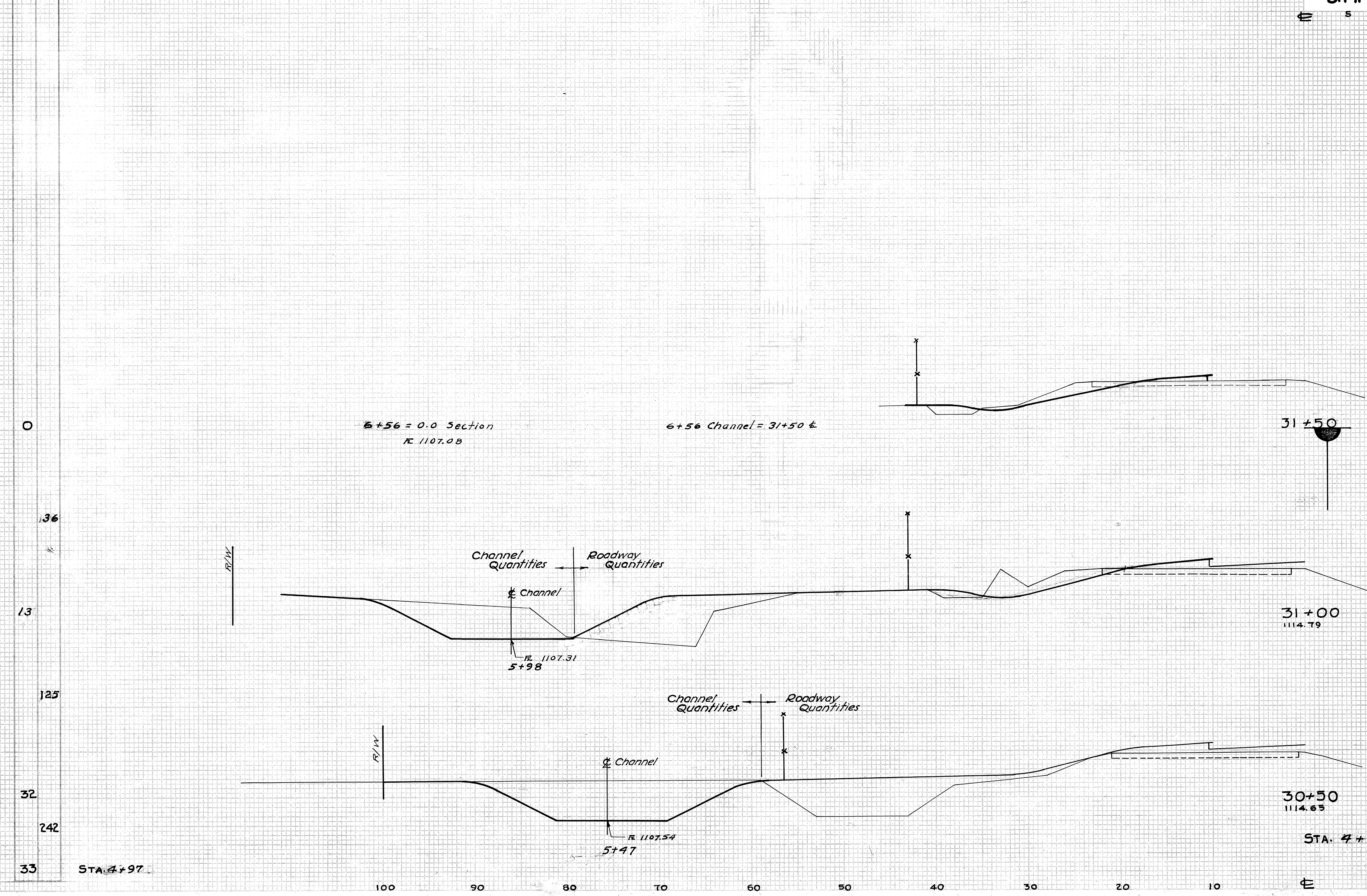
45		END AREA	CU. YDS
CUT	FILL	CUT	FILL
88	0		
		157	0
81	0		
		146	0
76	0		
		144	0
80	0		
		141	0
72	0		
		132	0
71	0		

CHANNEL LT. of ϵ STA. 2+97 TO STA. 4+97

HIGHLAND COUNTY
S.H. 254, SEC. C(PT.)

SEEDING
WIDTH AREA

END AREA	CU. YDS.
CUT	FILL
0	0
58	0
54	0
133	0
87	0
162	0
88	0

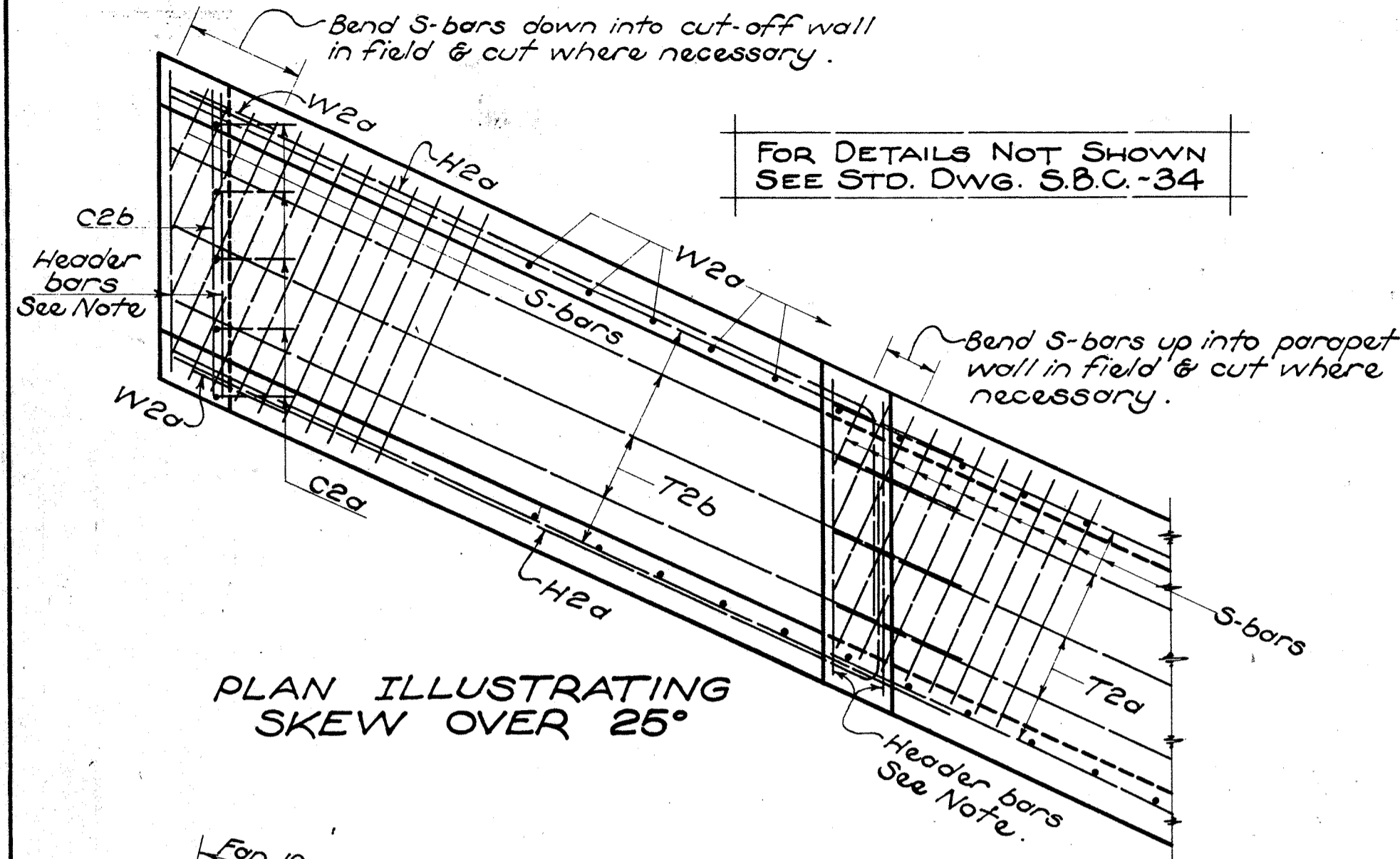


CHANNEL LT. of & STA. 5+47 TO STA. 6+56

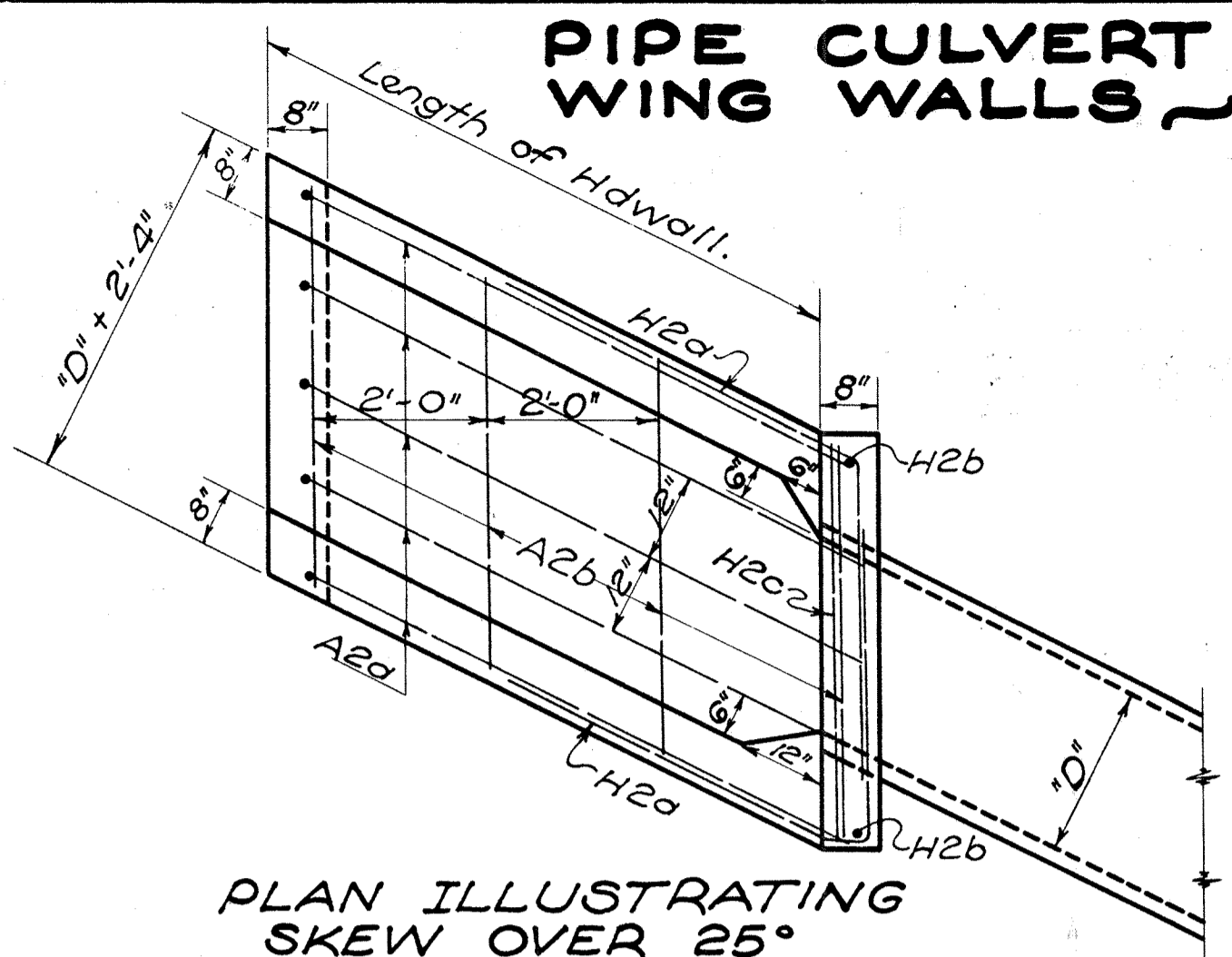
SMALL BOX CULV. WING WALLS

PIPE CULVERT WING WALLS

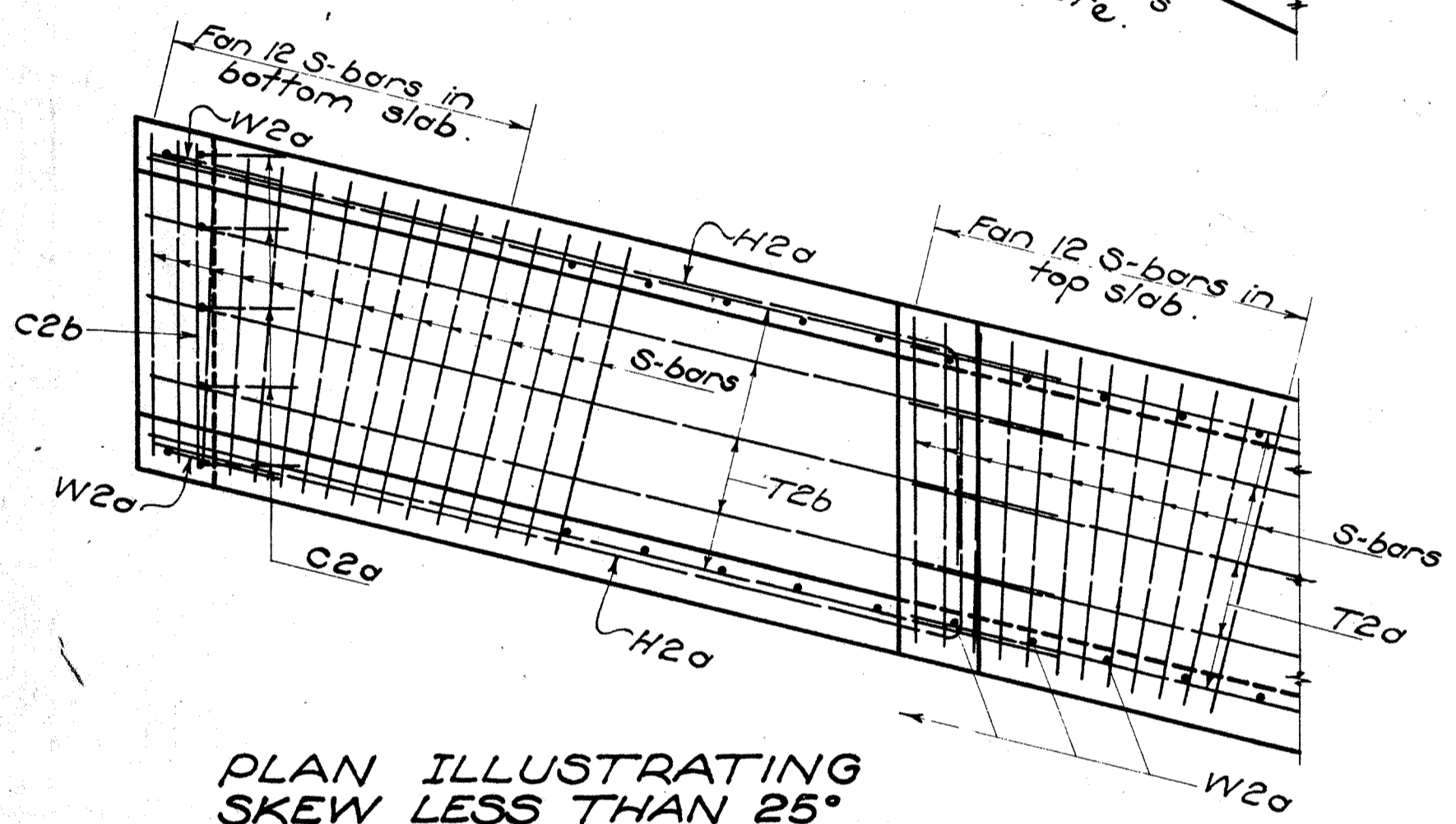
**HIGHLAND COUNTY
S. H. 254 SEC. C (PT.)**



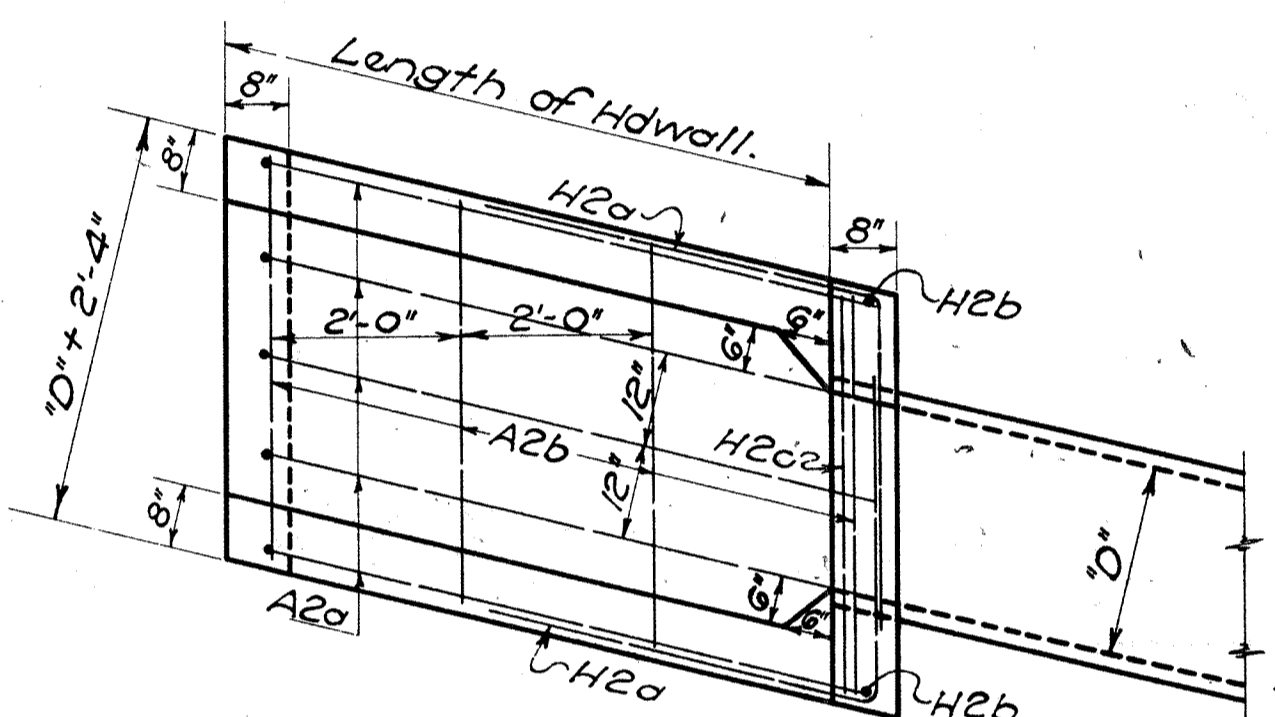
PLAN ILLUSTRATING SKEW OVER 25°



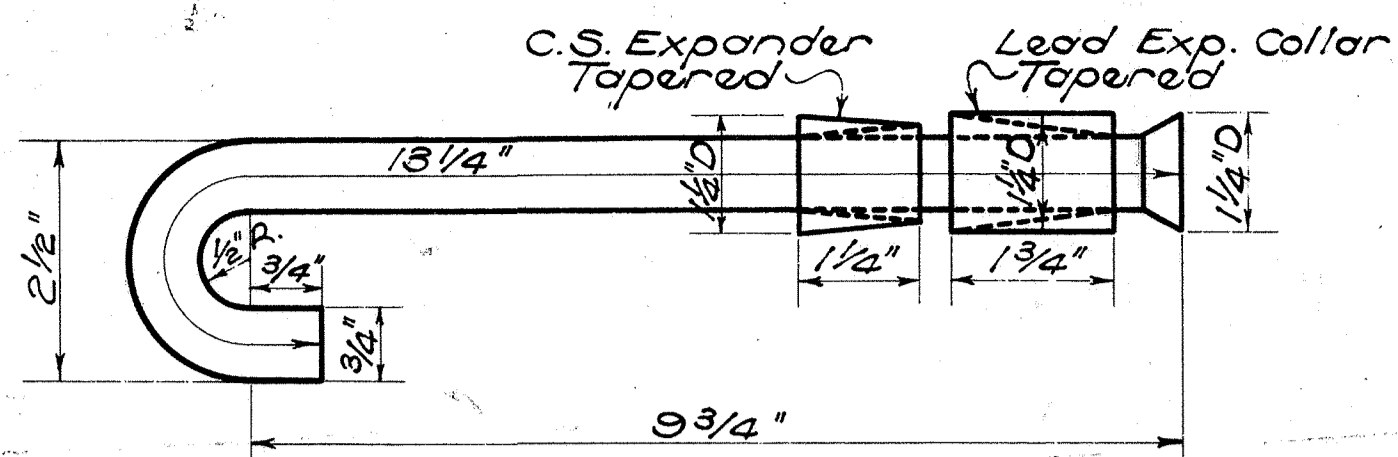
PLAN ILLUSTRATING SKEW OVER 25°



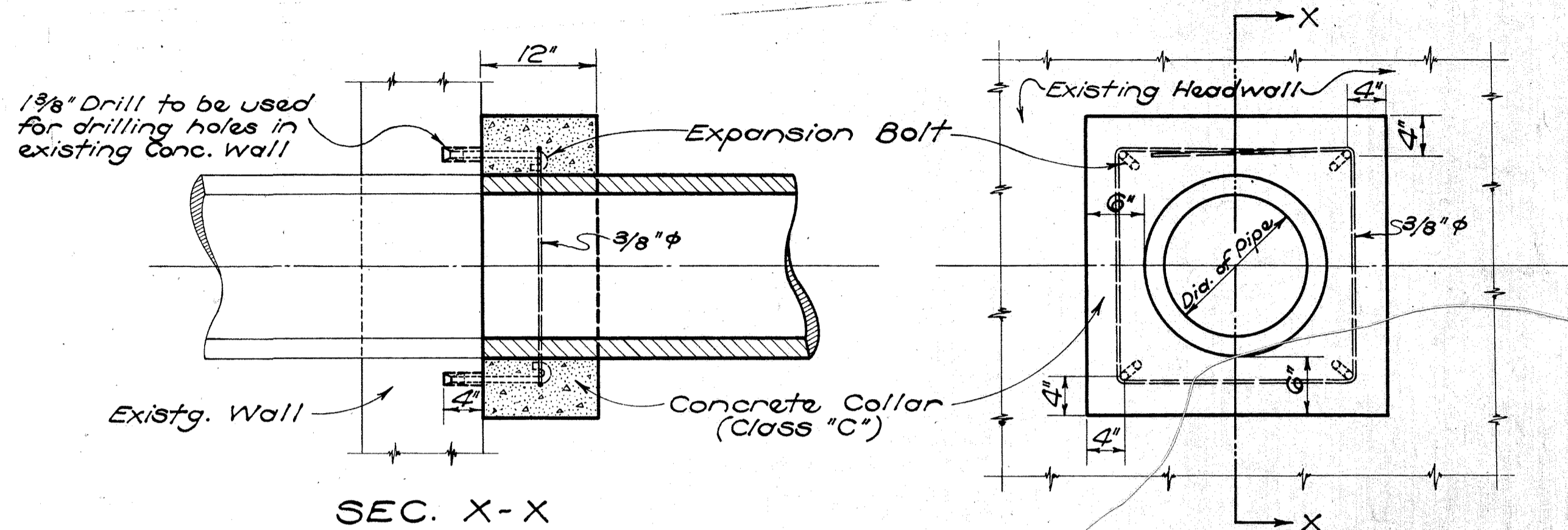
PLAN ILLUSTRATING SKEW LESS THAN 25°



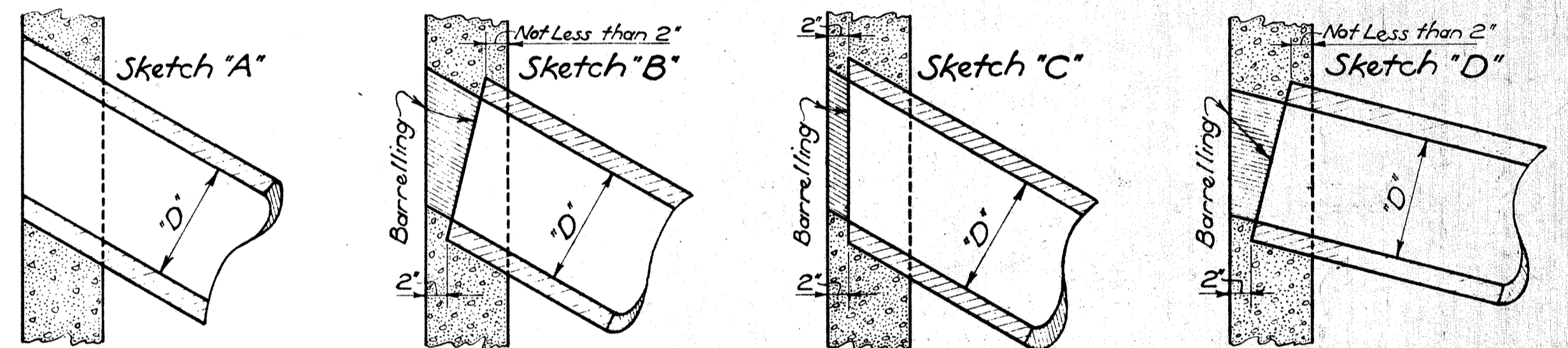
PLAN ILLUSTRATING SKEW LESS THAN 25°



EXPANSION ANCHOR BOLT DETAIL

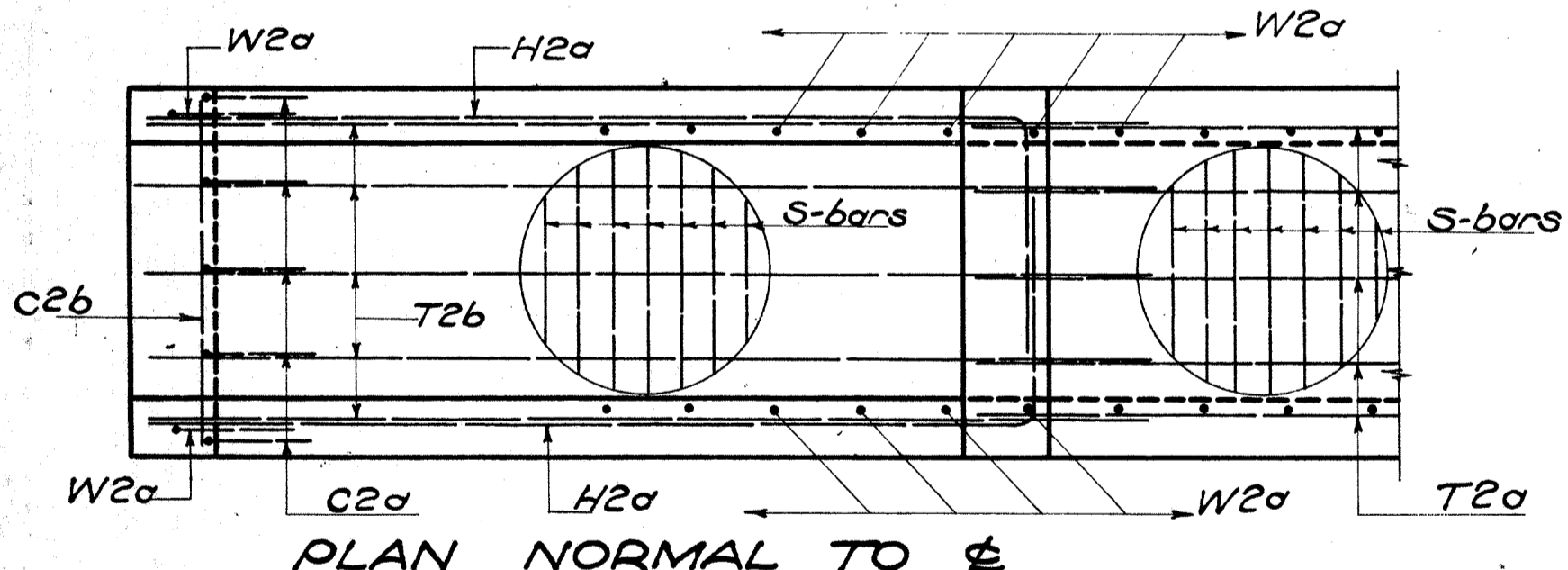


CONNECTION DETAIL FOR PIPE CULVERT EXTENSION

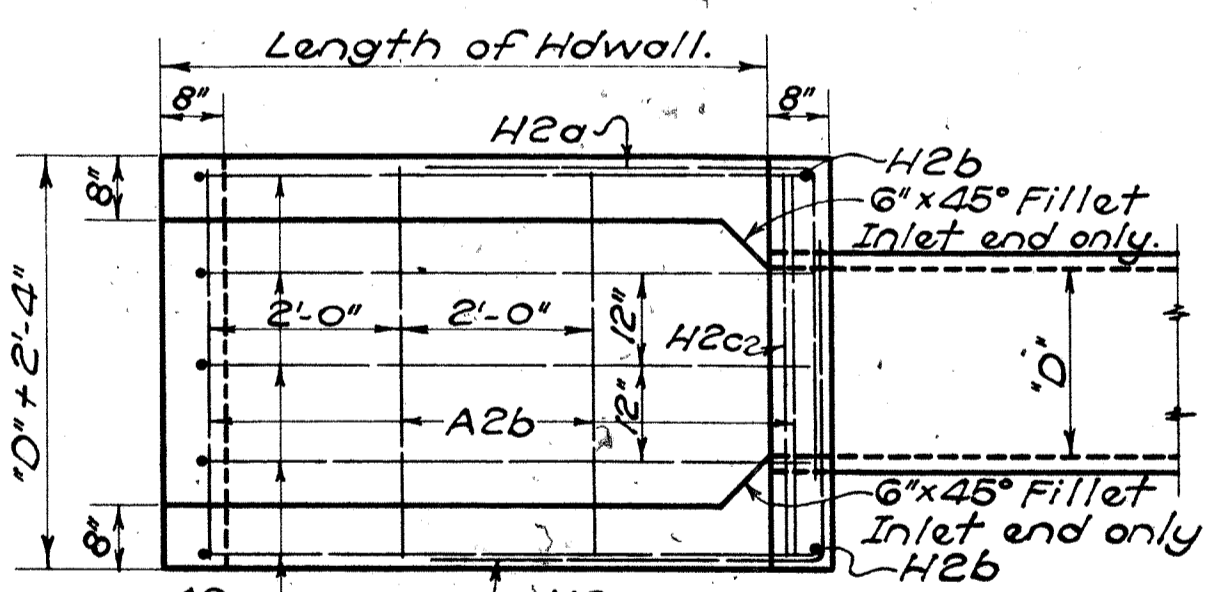


OPTIONAL METHODS OF FINISHING ENDS OF SKEWED PIPE AT FACE OF HEADWALLS.

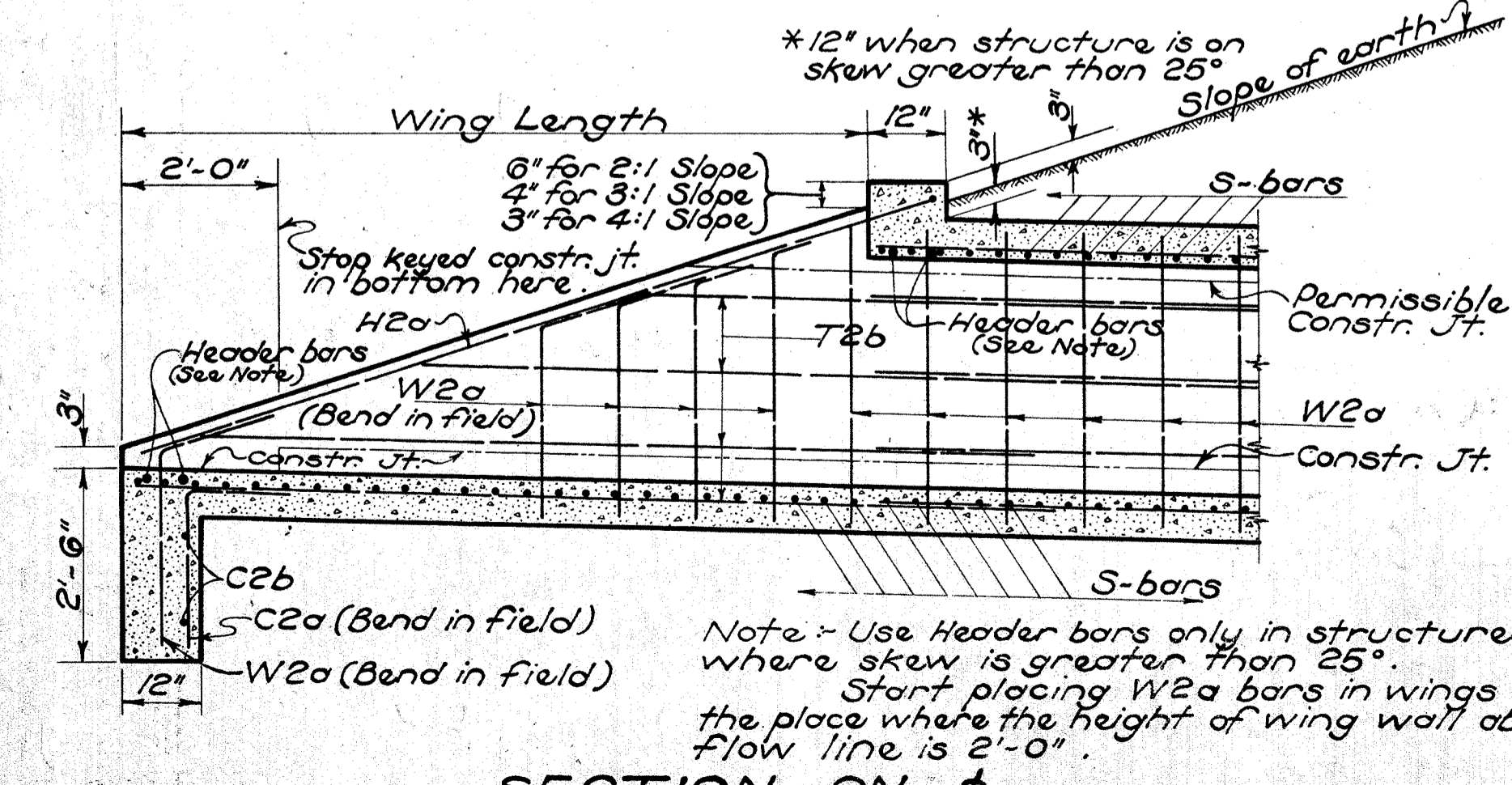
The Contractor may elect to use one of the two following methods:
 Method No 1: - The pipe shall be so fabricated, manufactured, cast or cut in the factory that the end of the skewed pipe will be flush with, & parallel to, the face of the headwall (See Sketch "A").
 Method No 2: - The Contractor may "barrel" out the pipe as per sketches "B", "C" or "D". Sketch "D" illustrates a slight skew that is small enough to be taken care of entirely by the "barrelling".
 When the skew exceeds that illustrated in sketch "D", sketch "B" or "C" will apply. This will require a factory cut as outlined in method No 1, but the cut will not have to be made as accurately. The cut may fall anywhere between that shown in sketch "B" & that in sketch "C".
 All "barrelling" shall be formed as per Std. Drwg. No S-27 P.C.-3 (Dated 3.1.39).
 Regardless of whether the Contractor uses method No 1 or No 2 as outlined above, the location of the headwalls as shown on the plans is to remain unchanged. The pay length for the pipe will be the measurement between faces of headwalls along the centerline of pipe.



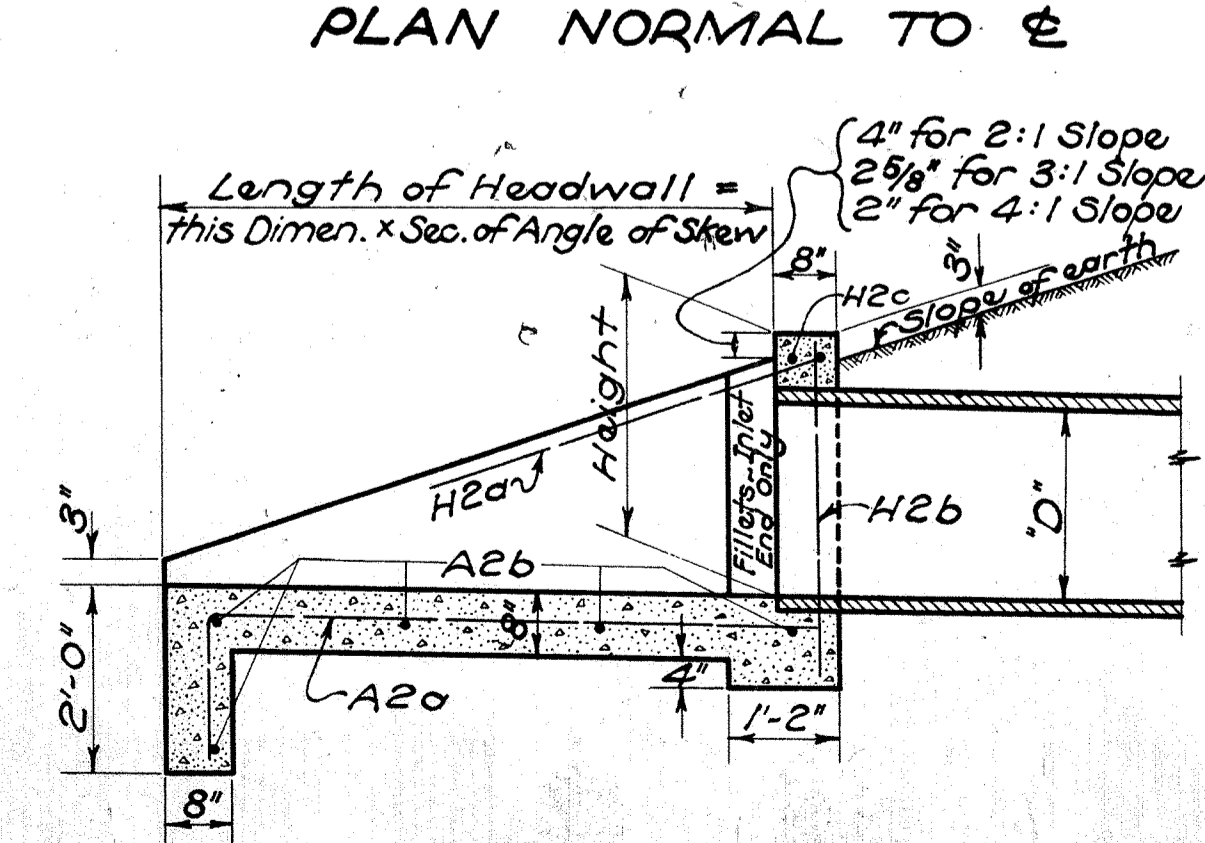
PLAN NORMAL TO ϕ



PLAN NORMAL TO ϕ



SECTION ON ϕ



SECTION ON ϕ

SUPPLEMENTARY DETAILS FOR SMALL BOX & PIPE CULVERTS

Drawn	Checked	Approved	Approved
P.M.G.	E.E.D.	L.B.G.	

HIGHLAND COUNTY S.H. 254 SEC. C (PT.)

GENERAL NOTES

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:-
For details not shown on these drawings, reference shall be made to Standard Drawing: A5-41-F, dated 3-31-41 and Supplemental Specifications 5-203 dated 4-6-45

REMOVAL OF EXISTING BRIDGE:- Existing superstructure to be dismantled and piled for disposal by the State Forces when no longer needed to maintain traffic.
Existing substructure to be removed to proposed ground line. Suitable material may be used for riprap.

WELDING:- All welding shall be Class "A".

PAINT FOR RAILING:- Railing sleeve angles, if painted, shall have one shop coat and three field coats as per Sec. 5-8. First field coat shall be applied at least five days before placing concrete posts. Shop coat and first field coat shall cover entire surface of angles.
Field paint for sleeve and railing angles shall be aluminum paint as per Sec. M-9, 12.

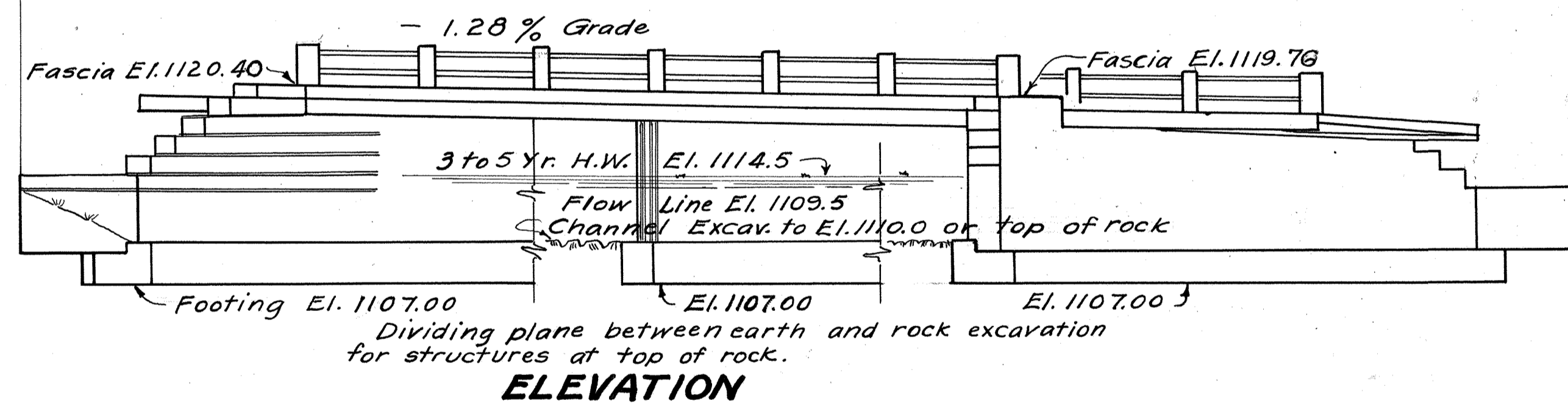
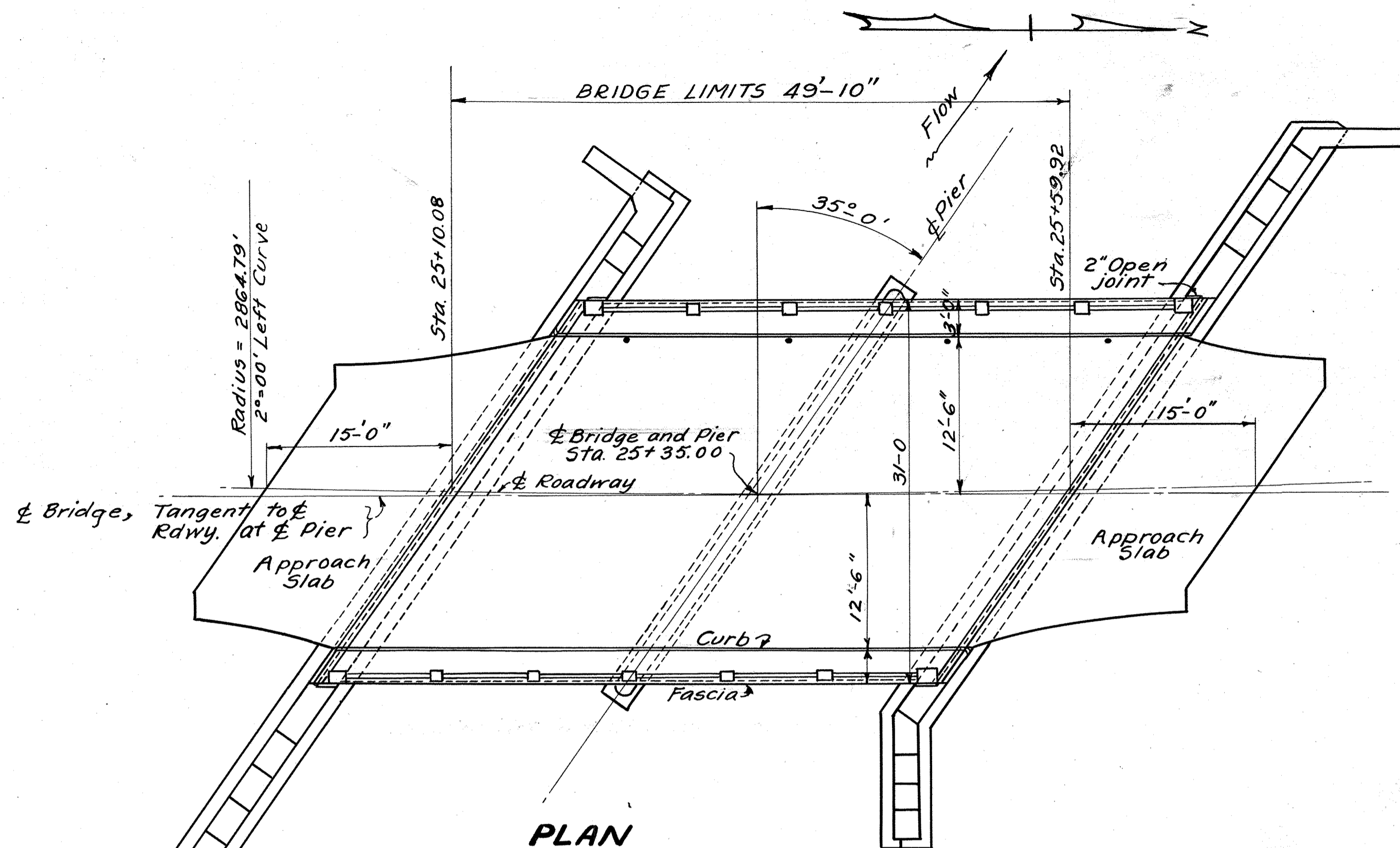
UNIT STRESSES:- Maximum unit design stresses for this structure are as follows:-
f_s = 18,000 p.s.i., f_c = 1200, n = 8 for Class "C" concrete,
f_s = 18,000 p.s.i., f_c = 900, n = 10 for Class "E" concrete.

RAILING:- Railing panels shall be so constructed that horizontal elements are parallel with finished center line grade, and all vertical elements are truly vertical.

MAINTENANCE OF TRAFFIC:- Two-way traffic shall be maintained at all times.

FOOTINGS:- shall extend a minimum of 2'-6" into solid rock.

FALSEWORK PLANS:- Not less than fifteen days prior to beginning construction of the falsework, the contractor shall submit three blue prints of false work plans to the Director for approval by the Bureau of Bridges.



ESTIMATED QUANTITIES									
ITEM	TOTAL	UNIT	DESCRIPTION	S. ABUT.	N. ABUT.	PIER	SUPERSTR.	GENERAL	
E-2	Lump Sum		Cofferdams and pumping					Lump	Lump
E-2	36	cu. yd.	Excavation for structures, Unclassified	21	15				36
E-2	73.5	cu. yd.	Excavation for structures, rock	31	31	11.5			73.5
J-1	71	cu. yd.	Class "C" concrete, superstructure				71		71
J-1	105	cu. yd.	Class "E" concrete, walls	48	40	17			105
J-1	64	cu. yd.	Class "E" concrete, footings	26.3	26.4	11.3			64
J-203	140	sq. yd.	Type "C" waterproofing for bridge deck				140		140
S-4	20,510	lb.	Reinforcing steel	1780	1380	950	16,314	86	20,510
S-7	3,700	lb.	Structural steel				3,700		3,700
S-9	135	sq. ft.	1/2" Premolded expansion joint filler				132	3	135
S-9	670	lb.	1/2" Cast leaded bronze sliding plates				670		670
S-14	97.6	lin. ft.	Bridge railing (Steel with concrete posts)				97.6		97.6
S-24	Lump Sum		Removal of existing structure					Lump	Lump
S-29	50	cu. yd.	Porous backfill	27	23				50
S-29	4	units	Scuppers (4" x 1 1/2" Std. C. I. Pipe)				4		4
S-15	Lump Sum		Temporary Run-around Bridge and Approaches					Lump	Lump
S-3	6	sq. yd.	Type "B" waterproofing	3	3				6
S-8	3700	lb.	Field painting of structural steel				3700		3700
T-35	9.5	cu. yd.	Asphaltic Concrete, Type A				9.5	C-2 (see notes) C-3, -214	736

T-35, 70-80 used

Revised As-Built c.m.k.
Note: T-35, 70-80, used

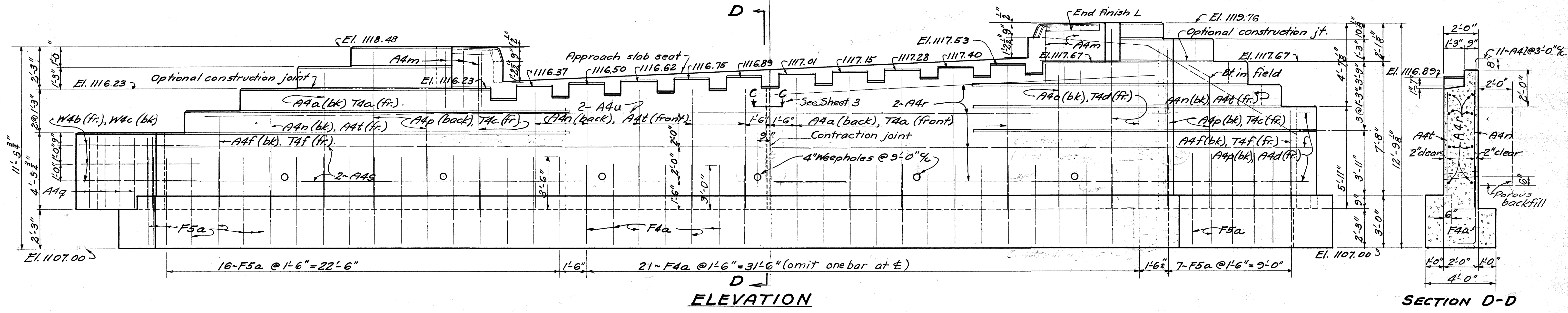
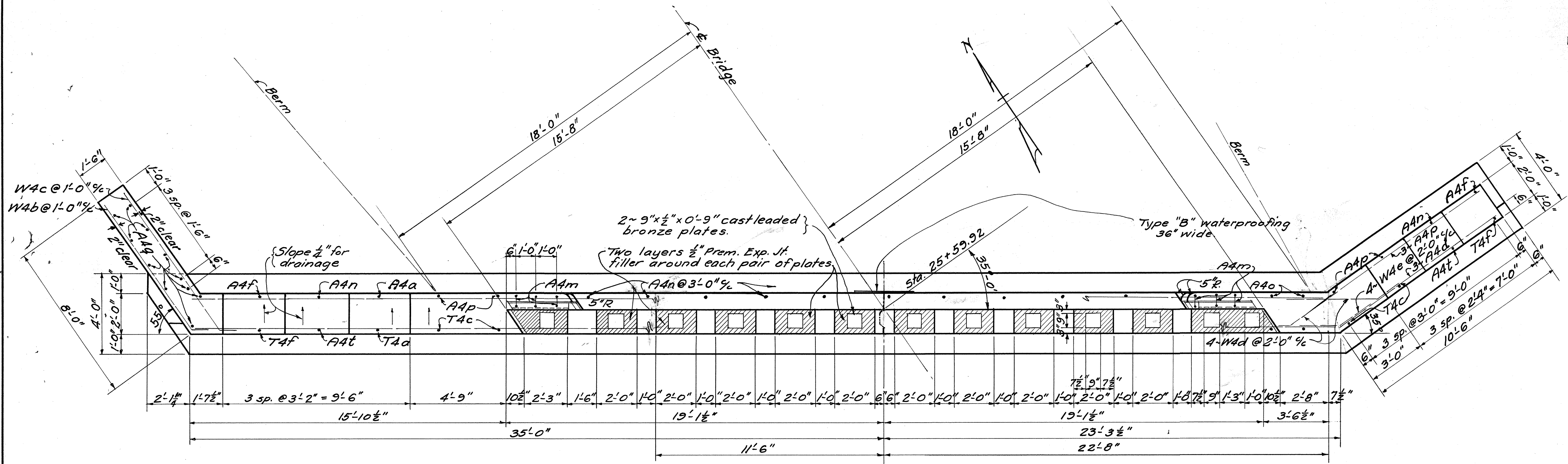
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

**GENERAL PLAN & ELEVATION
NOTES & ESTIMATED QUANTITIES**

BRIDGE NO. HI-73-03A
OVER POLK CREEK

HIGHLAND COUNTY S.H. 254
SEC. C (PT.) STA. 25+35.00

DESIGNED K.E.B.	DRAWN K.E.B.	TRACED K.E.T.	CHECKED F.H.S.	REVIEWED B.F.G. R.A.J.	DATE 11-15-45	REVISED 6-5-46
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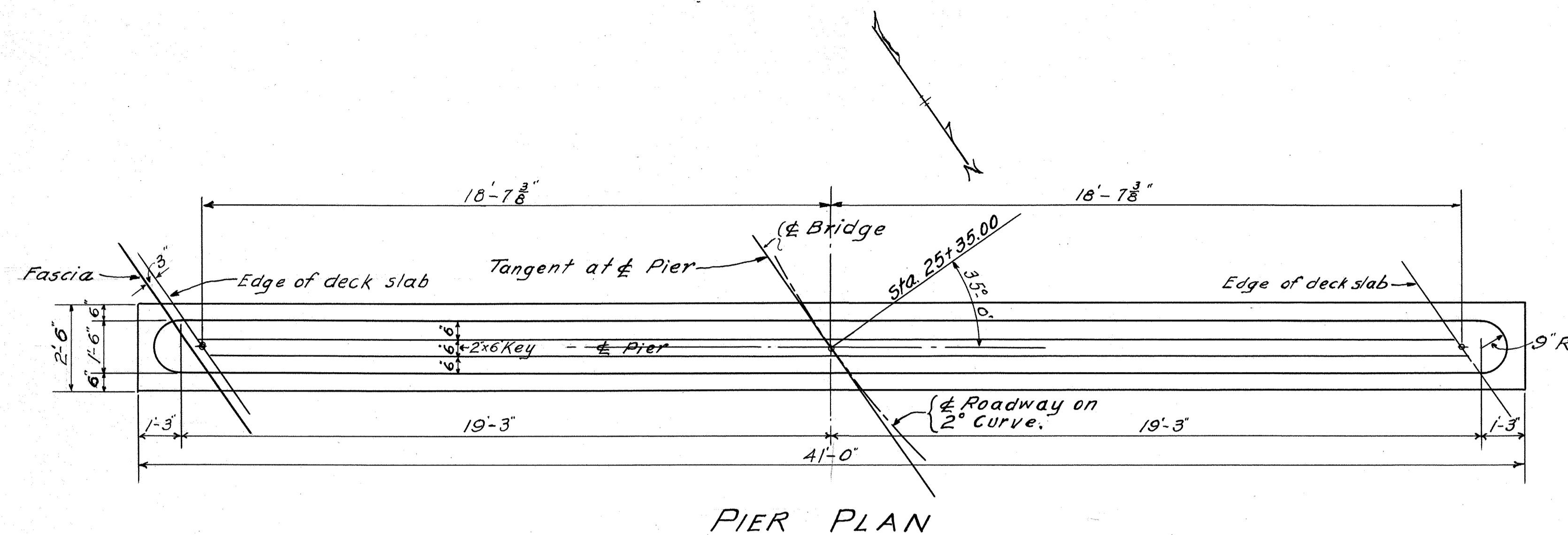
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NORTH ABUTMENT					
BRIDGE No. HI-73-03 A OVER POLK CREEK					
HIGHLAND COUNTY				S.H. 254	
SECTION C (Pr)				STA. 25+35.00	
DESIGNED K.E.B.	DRAWN K.E.B.	TRACED K.E.B.	CHECKED F.H.S.	REVIEWED B.F.G. A.A.O.	DATE 11-15-45
					REVISIONS 6-5-46

STEEL LISTS

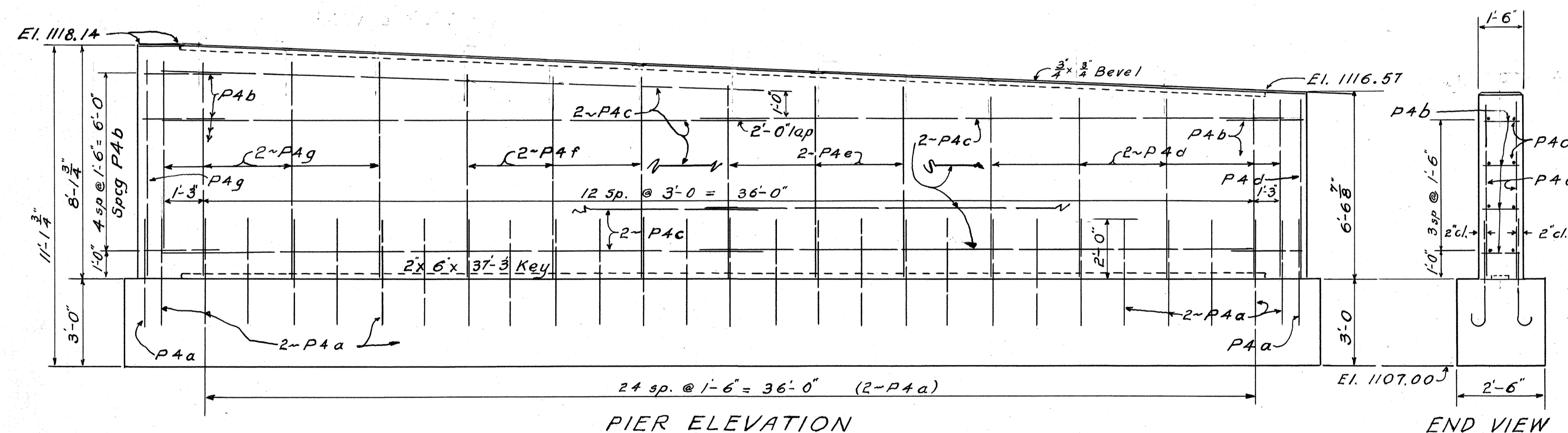
ABUTMENTS

Mark	Size	No	Length	Weight	Shape
F5a	3/4"	53	6'-0"	479	B
F4a	5/8"	40	5'-6"	228	B
A4a	5/8"	27	7'-3"	204	S
A4b	5/8"	7	8'-3"	60	S
A4c	5/8"	4	11'-0"	46	S
A4d	5/8"	6	9'-9"	61	S
A4e	5/8"	1	6'-3"	7	S
A4f	5/8"	12	5'-0"	63	S
A4g	5/8"	2	36'-0"	75	S
A4h	5/8"	4	34'-6"	156	S
A4i	5/8"	8	29'-0"	241	S
A4j	5/8"	2	32'-9"	68	S
A4k	5/8"	7	6'-0"	44	B
A4l	5/8"	22	3'-0"	69	B
A4m	5/8"	12	6'-3"	78	B
A4n	5/8"	7	6'-9"	49	S
A4o	5/8"	3	10'-3"	32	S
A4p	5/8"	8	8'-9"	73	S
A4q	5/8"	11	4'-0"	46	S
A4r	5/8"	10	22'-3"	186	S
A4s	5/8"	4	34'-6"	144	S
A4t	5/8"	7	6'-0"	44	S
A4u	5/8"	2	33'-0"	68	S
T4a	5/8"	15	6'-6"	102	S
T4b	5/8"	7	7'-6"	55	S
T4c	5/8"	9	8'-0"	75	S
T4d	5/8"	6	9'-0"	56	S
T4e	5/8"	1	5'-6"	6	S
T4f	5/8"	3	4'-3"	13	S
W4a	5/8"	14	9'-3"	135	B
W4b	5/8"	7	8'-3"	60	B
W4c	5/8"	7	9'-0"	66	B
W4d	5/8"	8	6'-6"	54	B
W4e	5/8"	4	4'-0"	17	B

Mark	Size	No	Length	Weight	Shape
SUPERSTRUCTURE					
S8a	1"	39	34'-9"	4607	B
S8b	1"	52	27'-3"	4818	B
S9a	1 1/2"	28	22'-0"	2651	S
S4a	5/8"	48	16'-0"	801	S
S4b	5/8"	82	19'-6"	1668	S
S4c	5/8"	50	5'-9"	300	B
S4d	5/8"	50	3'-9"	196	B
S4e	5/8"	56	3'-9"	219	B
S2a	1/2"	82	19'-3"	1054	S
PIER					
P4a	5/8"	56	4'-3"	248	B
P4b	5/8"	9	6'-6"	61	B
P4c	5/8"	18	20'-0"	372	S
P4d	5/8"	11	6'-3"	72	S
P4e	5/8"	6	6'-9"	42	S
P4f	5/8"	6	7'-0"	44	S
P4g	5/8"	9	7'-6"	70	S
P4i	5/8"	13	3'-0"	41	B
REPLACEMENT BARS					
RE9	1 1/8"	1	8'-6"	37	S
RE8	1"	1	8'-0"	27	S
RE5	3/4"	1	7'-0"	11	S
RE4	5/8"	1	6'-6"	7	S
RE2	1/2"	1	6'-0"	4	S

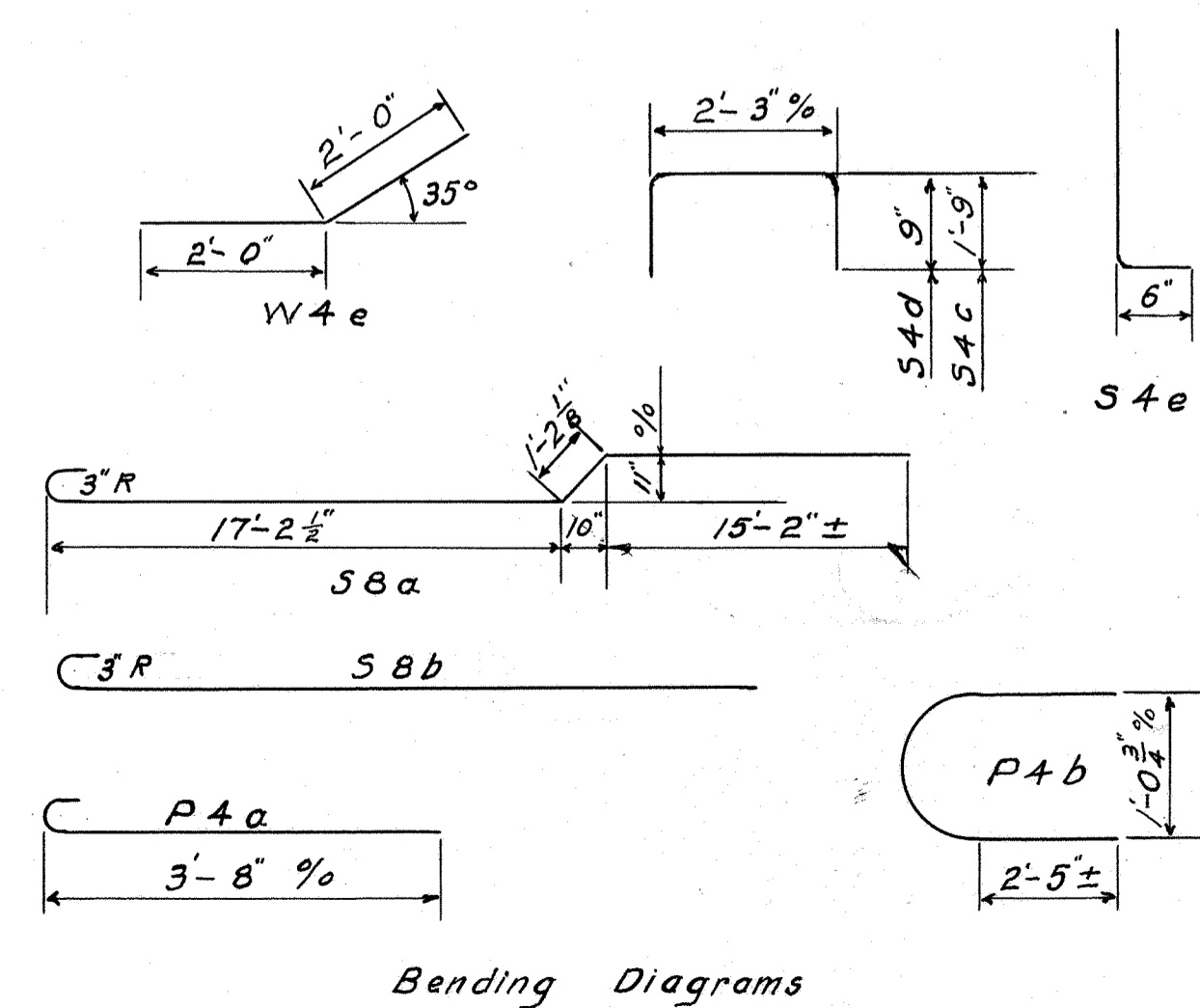
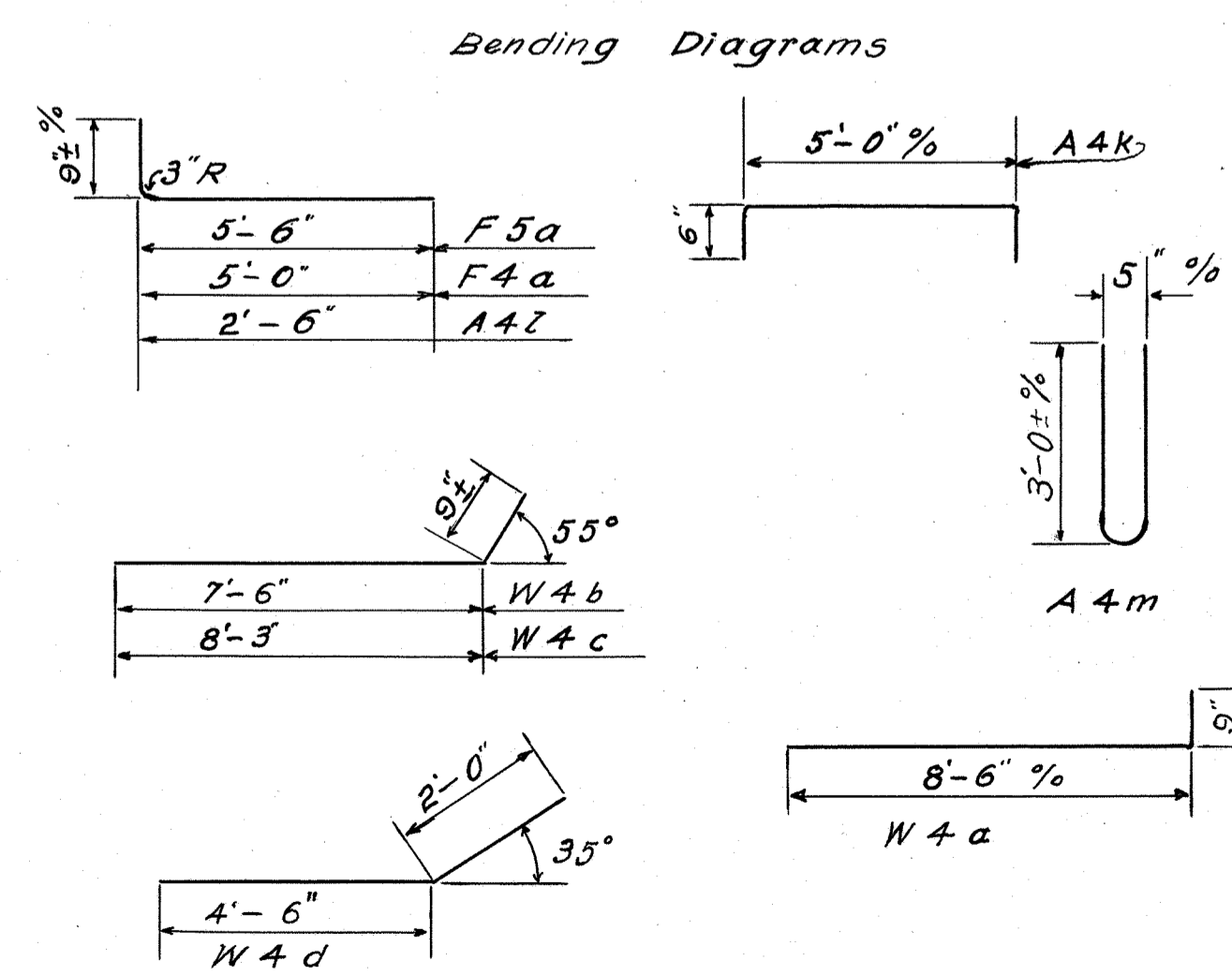


PIER PLAN



PIER ELEVATION

END VIEW

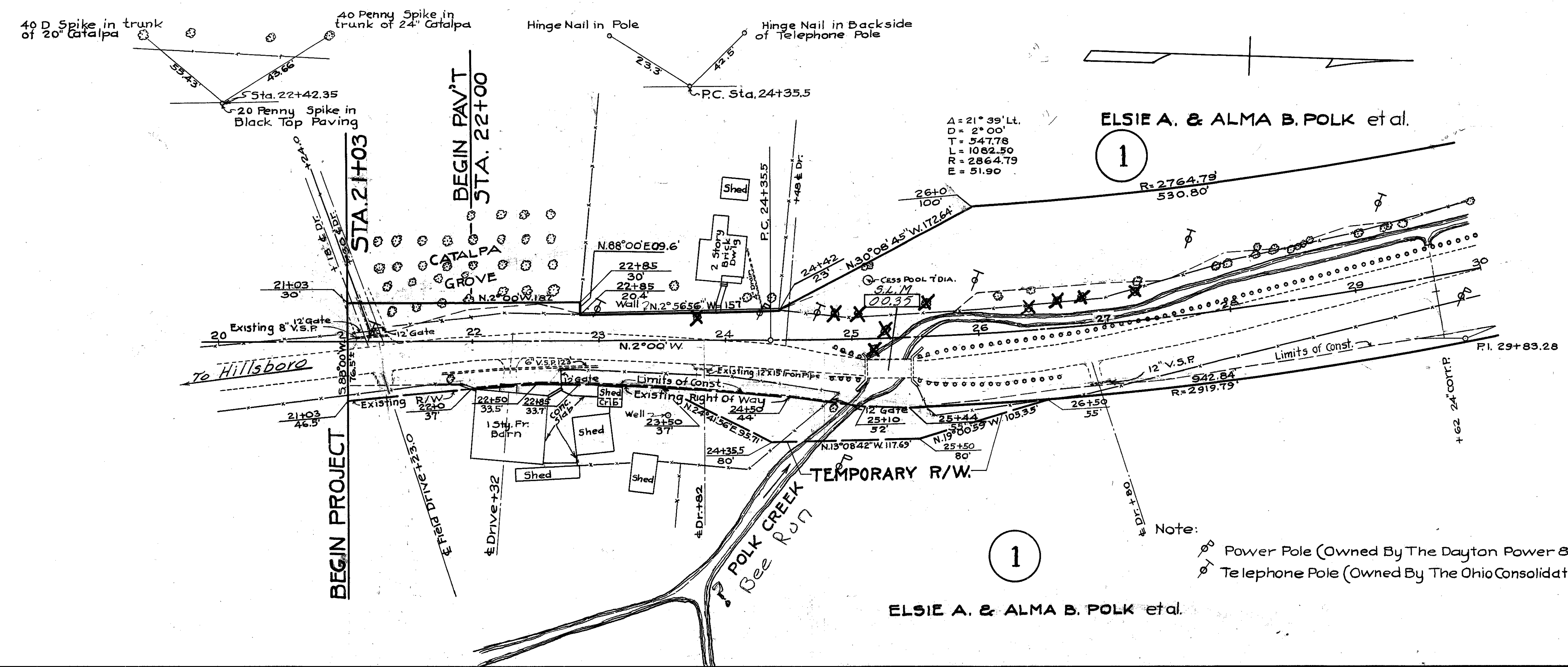


STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

PIER DETAILS AND REINFORCING STEEL LISTS
BRIDGE NO HI-73-03A
OVER POLK CREEK
HIGHLAND COUNTY S.H. 254
SECTION 'C' (PT) STA 25+35.00

DESIGNED K.E.B.	DRAWN K.E.B.	TRACED W.S.	CHECKED F.H.S.	REVIEWED B.F.S. 10/10/45	DATE 11-15-45	REVISED 6-5-46
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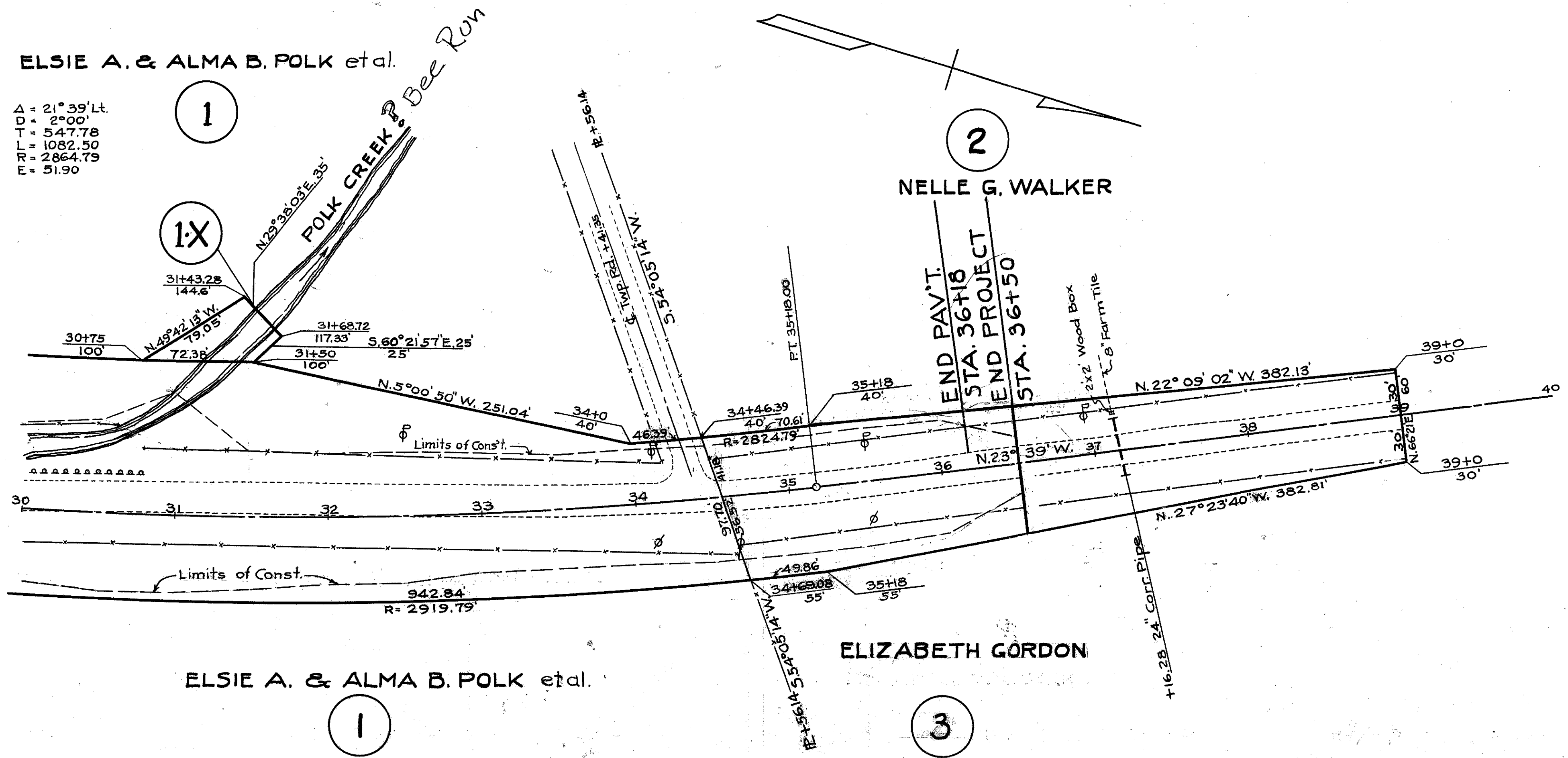
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Note:
 Ⓚ Power Pole (Owned By The Dayton Power & Light Co. Dayton, O.)
 Ⓚ Telephone Pole (Owned By The Ohio Consolidated Telephone Co. Portsmouth, O.)

ELSIE A. & ALMA B. POLK et al.

Δ = 21° 39' Lt.
 D = 2° 00'
 T = 547.78
 L = 1082.50
 R = 2864.79
 E = 51.90



ELSIE A. & ALMA B. POLK et al.

NELLE G. WALKER

ELIZABETH GORDON