

CONVENTIONAL SIGNS

STATE LINE	
COUNTY LINE	
TOWNSHIP LINE	
SECTION LINE	
CENTER LINE	
CORPORATION LINE	
FENCE LINE	
GUARD RAIL (EXISTING)	
GUARD RAIL (PROPOSED)	
STEAM RAILROAD	
POWER POLES	
TELEPHONE POLES	
TREES (EXISTING)	
TREES OR STUMPS (TO BE REMOVED)	
LIMITED ACCESS AND RIGHT OF WAY	
LIMITED ACCESS ONLY	
RIGHT OF WAY ONLY	
EXISTING RIGHT OF WAY	
CONSTRUCTION LIMITS	

STATE OF OHIO  
 DEPARTMENT OF HIGHWAYS

TRU- 80 - 8.90

HUBBARD TOWNSHIP  
 TRUMBULL COUNTY

GRADE SEPARATION WITH THE NEW YORK CENTRAL RAILROAD COMPANY  
 AND THE ERIE-LACKAWANNA RAILROAD COMPANY

I-IG-80-5(9)245

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR OF HIGHWAYS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 551.02 OF THE REVISED CODE OF OHIO.

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-IG-80-5(9)245

TRUMBULL COUNTY  
 TRU- 80-8.90

Project designation TRU-I-80-8.90 appearing throughout this plan shall be considered to read TRU-80-8.90

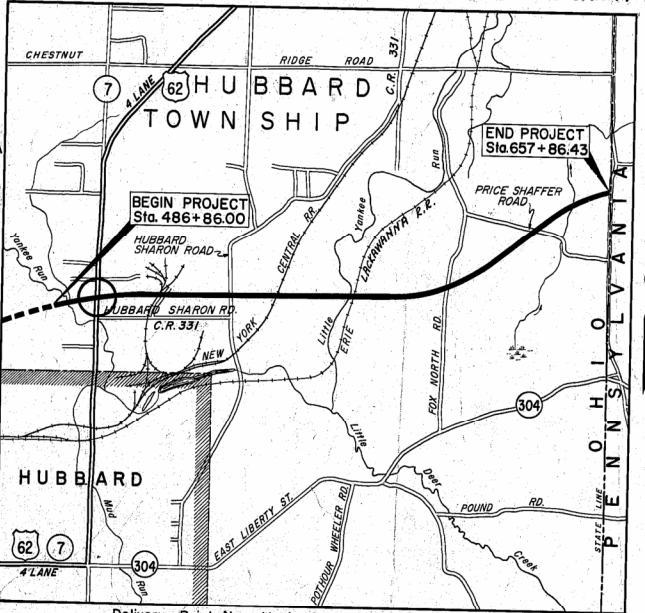
SCALE OF FEET  
 0 25 50 100 150 200

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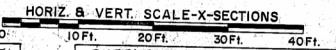
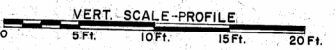
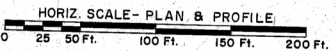
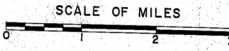
SHEETS No 14, 15, 294, 377 & 399 DELETED

Sheets Nos. 18-A & 19 revised 3-16-64 C.E.H.



Delivery Point New York Central R.R. HUBBARD, OHIO  
 Average Haul From Siding - 1.8 Miles

LOCATION MAP



PORTION TO BE IMPROVED  
 PORTION UNDER SEPARATE CONTRACT  
 STATE ROADS & LOCAL ROADS

LINE DATA

	I-80-5(9) 245	IG-80-5(9) 245	I-IG-80-5(9) 245
Begin Project	Sta. 486+86.00	Sta. 545+25.00	Sta. 486+86.00
Suspend Project	Sta. 545+25.00		
Resume Project	Sta. 574+75.00		
End Project	Sta. 657+86.43	Sta. 574+75.00	Sta. 657+86.43
Additions &/or Deductions			
LENGTH OF PROJECT	14,150.43 Ft. or 2.680 Mi.	2,950.00 Ft. or 0.558 Mi.	17,100.43 Ft. or 3.238 Mi.
Add. for Approaches*			
Main Line	136.00 Ft.		136.00 Ft.
U.S.R. 62 & S.R. 7	1,695.00 Ft.		1,695.00 Ft.
Reconst. Hubbard-Sharon Rd.	345.75 Ft.		345.75 Ft.
Reloc. Fox-North Rd.	3,264.00 Ft.		3,264.00 Ft.
Reloc. Price-Shaffer Rd.	2,279.51 Ft.		2,279.51 Ft.
Reloc. State Line Rd.	2,735.78 Ft.		2,735.78 Ft.
LENGTH OF WORK	24,606.47 Ft. or 4.661 Mi.	2,950.00 Ft. or 0.558 Mi.	27,556.47 Ft. or 5.219 Mi.

\*See Sheet No. 2

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

R.R.A. No. 4-A	1-20-58	R.R.A. No. 4-B	1-20-58	R.R.A. No. 4-C	10-15-63	T-35	1-2-56
B-T-70-71	11-15-60	SP-53	6-30-61	I-8 M.H. NO.1	2-1-63	L-2	4-1-50
B-T-71 R	3-2-53	HW-E	2-1-63	I-8 M.H. NO.1-A	2-1-63	L-3	4-1-50
DR-1	1-33-55	I-1	11-15-60	F-2	2-1-63	L-3-A	4-1-50
558-2-56 Sigs 213 22-50	4-2-62	I-8 C.B. 2-2A & B	2-1-63	F-3	2-1-63	L.J. NO.1	7-1-55
AE-1-57	4-2-62	I-8 C.B. 2-3 & 2-4	2-1-63	I-12	2-1-63	R.I.	7-15-58
FACI-1	3-8-63	I-8 C.B. NO.5	2-1-63	I-15 NO.1	11-15-60	R.R.A. NO. 1	2-1-63
FACI-2	3-8-63	I-8 C.B. NO.6	2-1-63	I-15 NO.2 A	8-17-60	R.R.A. NO. 2	1-20-58
G-7.07	6-1-56	F58-1-62	1-15-63	I-15 NO.5 A	2-1-63	T-J	9-12-60
HW-A & B	7-15-57	I-8 C.B. NO.8	2-1-63	I-15 NO.6	2-1-63	L-1	4-1-50
HW-C	7-15-57	AS-1-54	7-5-62	I-21-23	8-1-56	I-14 G	1-22-52

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M-106-11	1-26-67
B-112	8-21-61
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I-127	R-1-15-62
M-107.18	R-4-3-61
S-103	R-2-16-55
S-107	R-2-16-55
L-120	R-7-2-62
I-122	R-4-5-61

DEPARTMENT OF COMMERCE  
 BUREAU OF PUBLIC ROADS

APPROVED  
 DIVISION ENGINEER  
 DATE

FILE NO. TRUMBULL COUNTY TRU- 80-8.90  
 DATE OF LETTING 19  
 CONTRACT NO.



# SCHEMATIC PLAN

SCALE 1" = 400'

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	IG-80-5(9)245

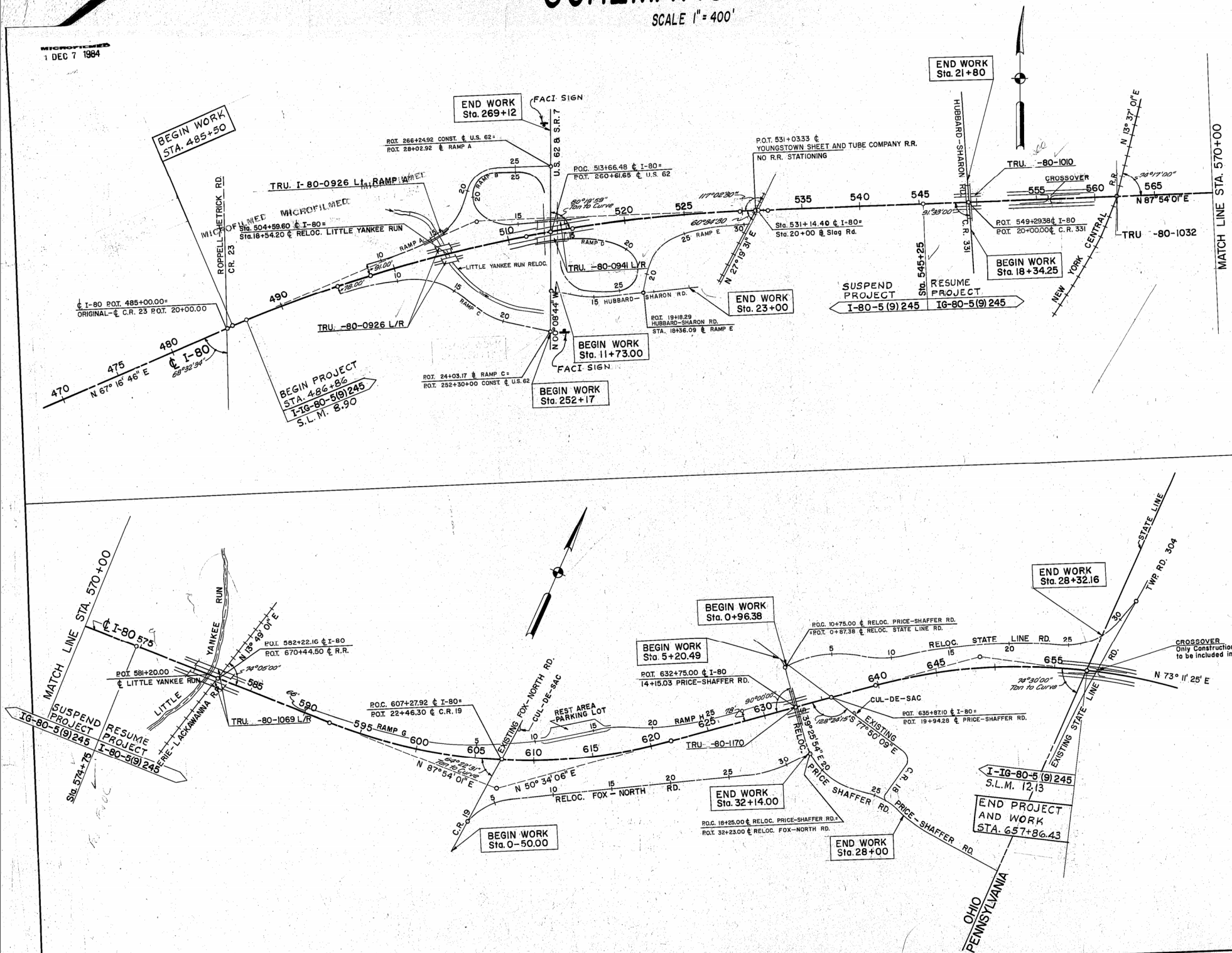
TRUMBULL COUNTY TRU-I-80-8.90

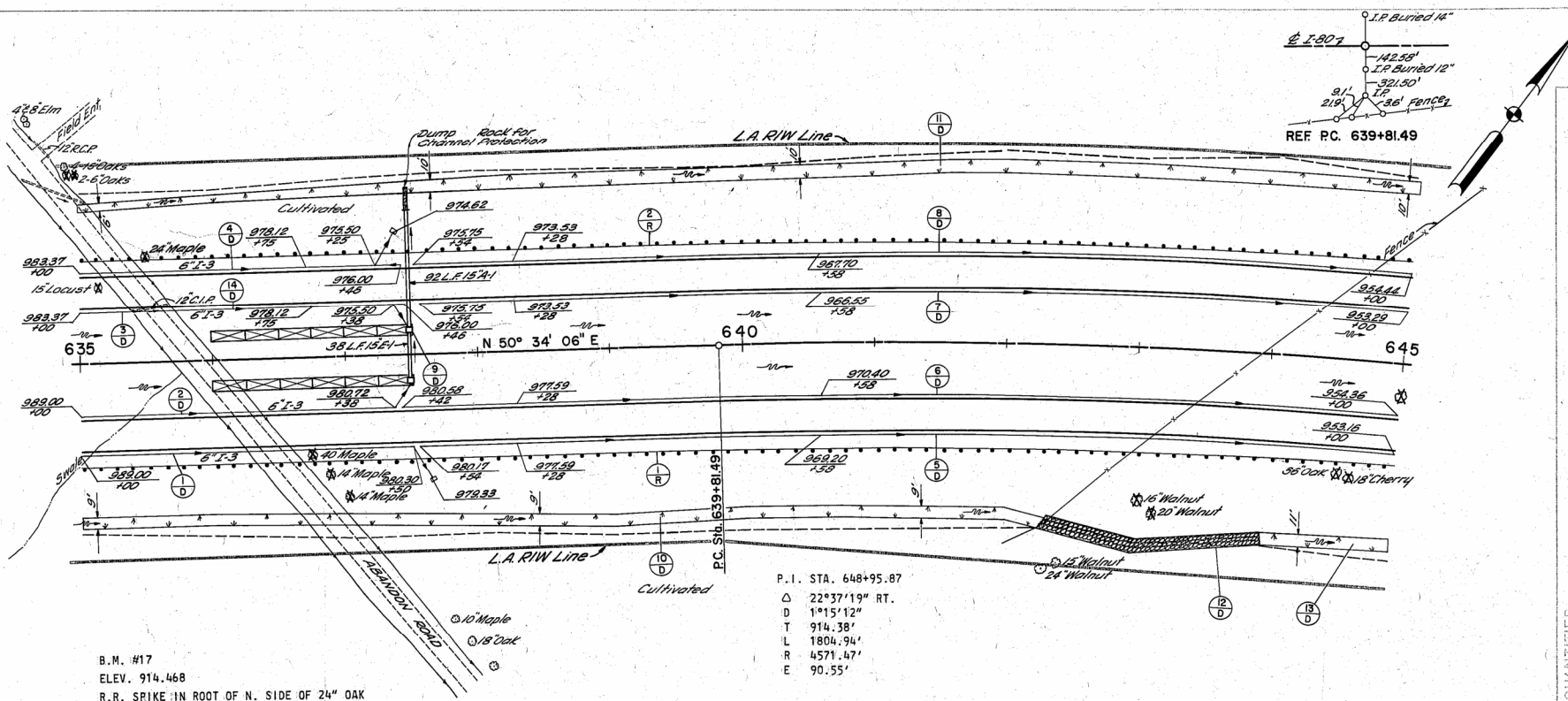
2  
101

MICROFILMED  
1 DEC 7 1984

### WORK LENGTHS

<b>MAIN LINE</b>	
Begin Work Sta. 485+50.00	
Begin Project Sta. 486+86.00	
Length	136.00 Lin. Ft.
<b>U.S.R. 62 &amp; S.R. 7</b>	
Begin Work Sta. 252+17.00	
End Work Sta. 269+12.00	
Length	1,695.00 Lin. Ft.
<b>RECONSTR. HUBBARD-SHARON RD.</b>	
Begin Work Sta. 18+34.25	
End Work Sta. 21+80.00	
Length	345.75 Lin. Ft.
<b>RELOC. FOX-NORTH RD.</b>	
Begin Work Sta. 0-50.00	
End Work Sta. 32+14.00	
Length	3264.00 Lin. Ft.
<b>RELOC. PRICE-SHAFFER RD.</b>	
Begin Work Sta. 5+20.49	
End Work Sta. 28+00.00	
Length	2,279.51 Lin. Ft.
<b>RELOC. STATE LINE RD.</b>	
Begin Work Sta. 0+96.38	
End Work Sta. 28+32.16	
Length	2,735.78 Lin. Ft.





B.M. #17  
ELEV. 914.468  
R.R. SPIKE IN ROOT OF N. SIDE OF 24" OAK  
250' LT. OF STA. 643+00

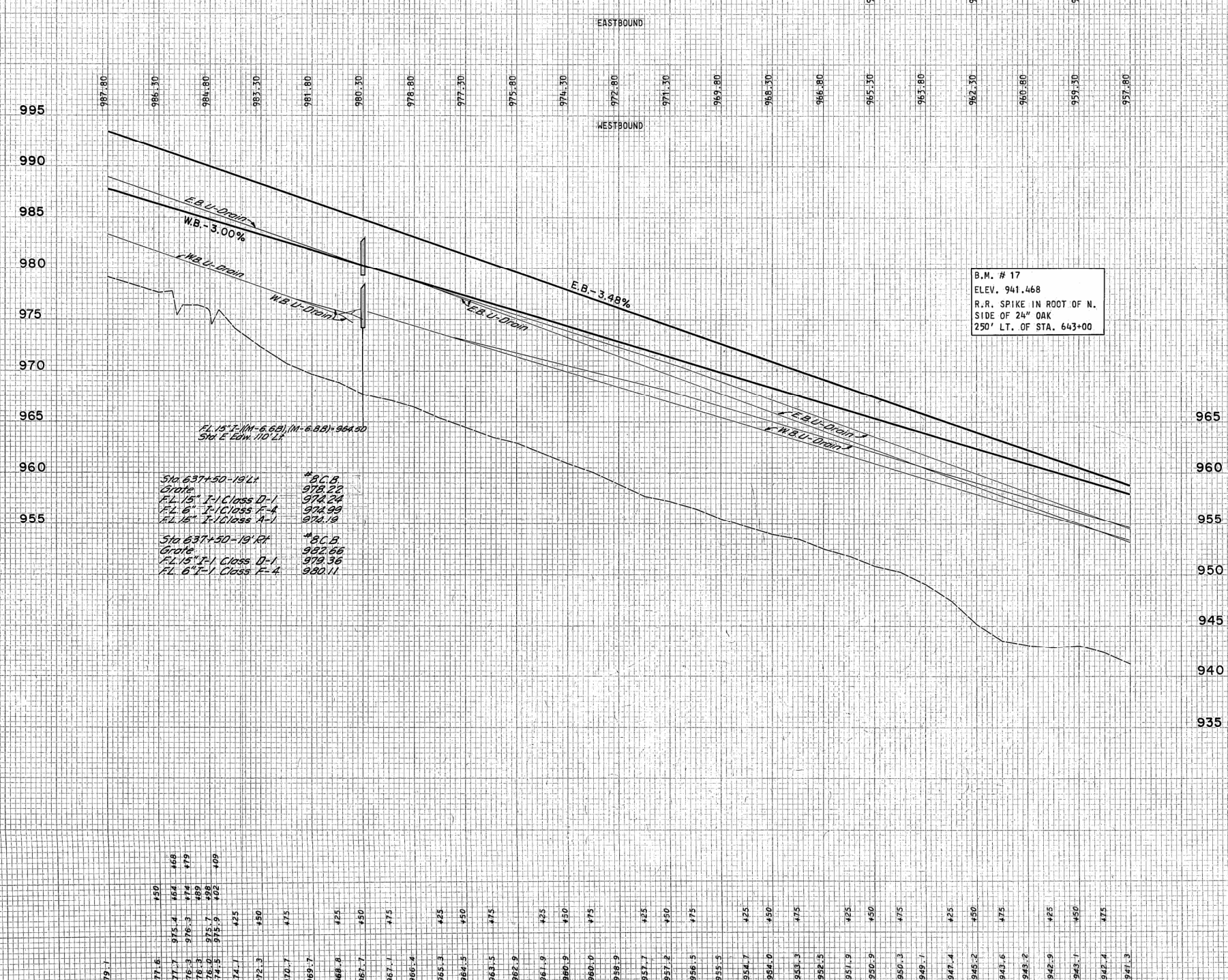
P.I. STA. 648+95.87  
Δ 22°37'19" RT.  
D 1°15'12"  
T 914.38'  
L 1804.94'  
R 4571.47'  
E 90.55'

FOR PROFILE SEE NEXT SHEET

ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	E-12 Pipe Under	CL-A-1 18"	CL-E-1 15"	CL-F-4 6"	CL-I-3 6" U-Drain	I-2 Masonry	I-5 For 6" WYE BEND EACH	I-8 Catch Basin No. 8 EACH	I-10 Dumped Channel Protection CU. YD.	I-15 Guard Rail L.F.	L-10 Sodding SQ. YD.	L-150 Julie Marking SQ. YD.	SEE SHEET NO.
1-0	635+00 to 637+50	RH													
2-0	635+00 to 637+50	RH													
3-0	635+00 to 637+50	LH													
4-0	635+00 to 637+50	LH													
5-0	637+50 to 645+00	RH													
6-0	637+50 to 645+00	RH													
7-0	637+50 to 645+00	LH													
8-0	637+50 to 645+00	LH													
9-0	637+50 to 645+00	RH													
10-0	635+00 to 645+00	LH													
11-0	635+00 to 645+00	RH													
12-0	635+00 to 645+00	RH													
13-0	635+00 to 645+00	LH													
14-0	635+00 to 645+00	LH													
1-0	635+00 to 645+00	RH													
2-0	635+00 to 645+00	LH													
TOTALS			24	92	38	20	20	3	2	2	157	1000.0	731	258	258

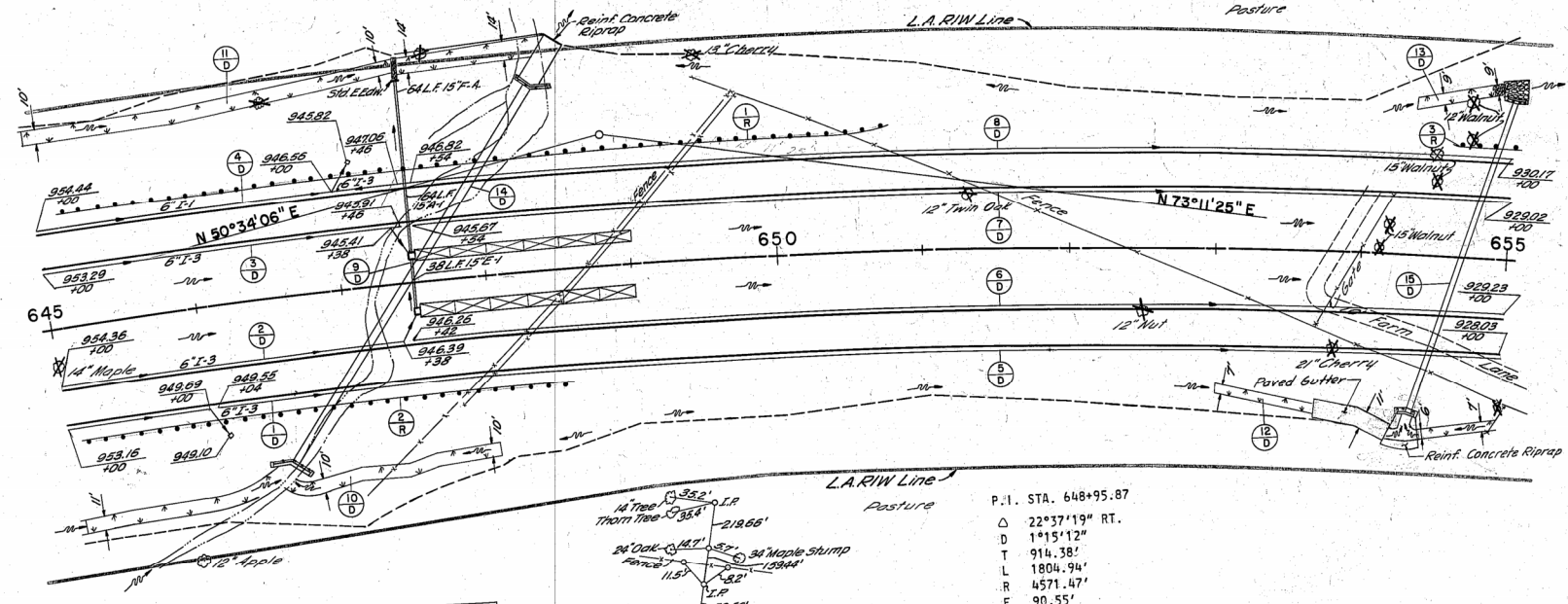
SEEDING  
CUB YDS. SQ YDS.



END AREA	VOLUME
CUT	FILL

635 636 637 638 639 640 641 642 643 644 645 Sta. 635+00 to Sta. 645+00 - Profile

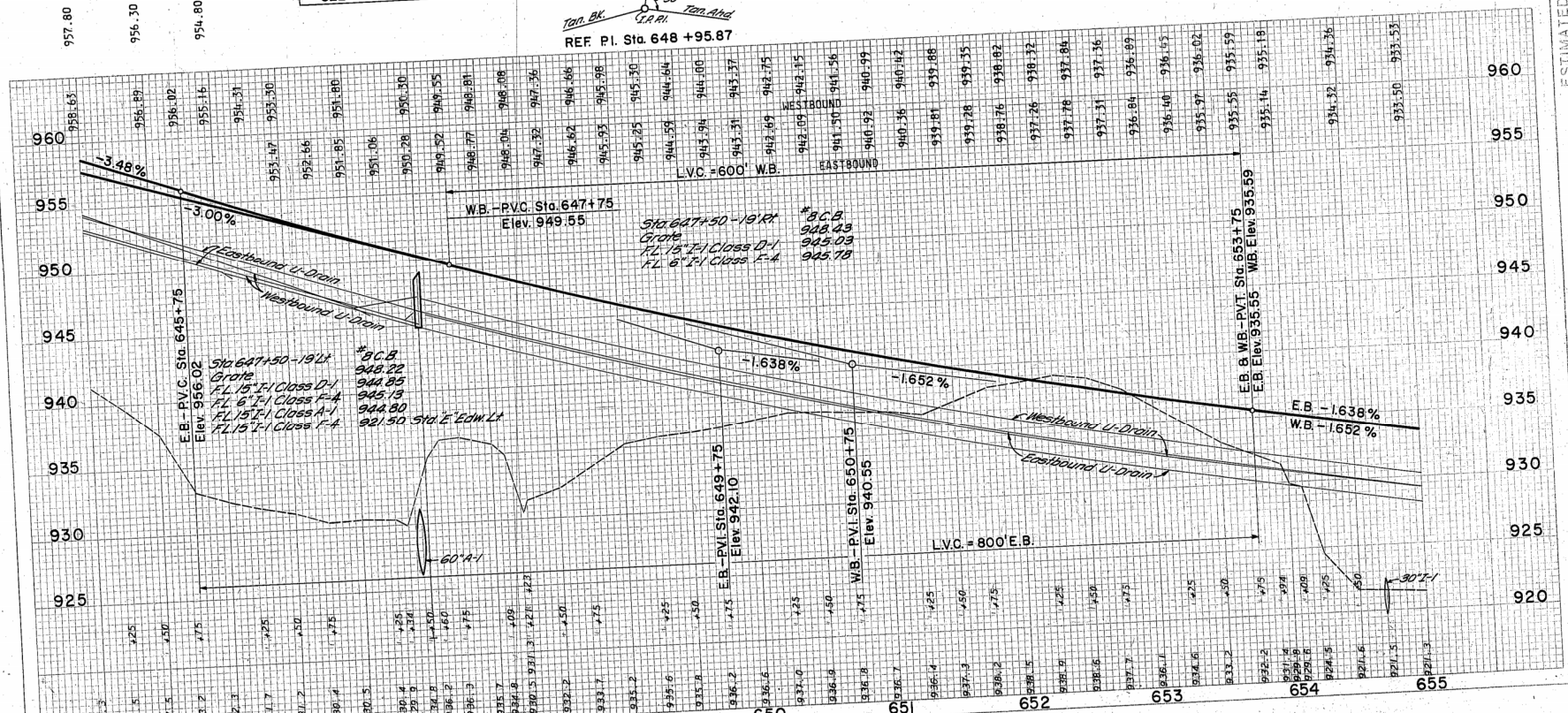
FOR CULVERT DETAILS  
SEE SHEET 296



FOR CULVERT DETAILS  
SEE SHEET 295

P.I. STA. 648+95.87  
 Δ 22°37'19" RT.  
 D 1°15'12"  
 T 914.38'  
 R 1804.94'  
 E 4571.47'  
 E 90.55'

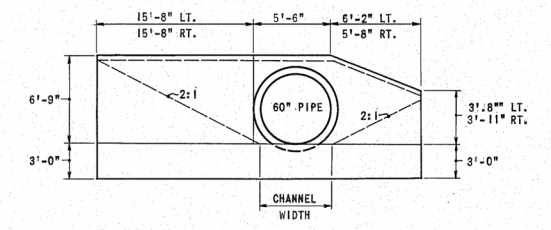
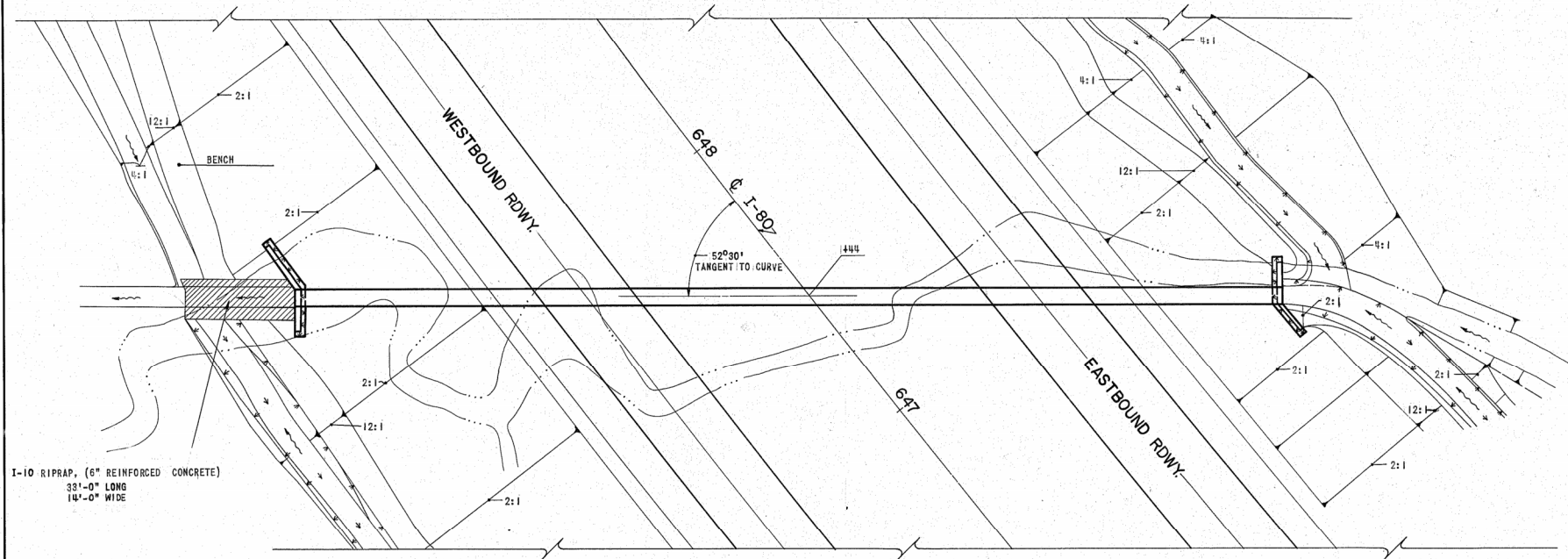
REF. PI. Sta. 648 +95.87



ESTIMATED QUANTITIES

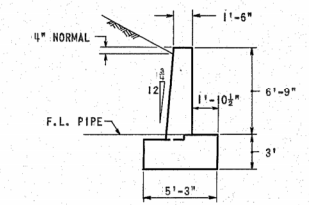
REF. NO.	STATION TO STATION	SIZE	CL. A-1	CL. A-1	CL. A-1	CL. E-1	CL. F-4	CL. I-3	MASON.	I-5	I-8	I-10	I-10	I-14	I-15	L-10	L-120
			CL. A-1	CL. A-1	CL. A-1	CL. E-1	CL. F-4	CL. I-3		For 6" I-3 Bond WYE EACH EACH EACH	C.B. NO. 8	Dumped Conc. Riprap	Dumped Conc. Riprap	Guard Rail	Stodding	Jute Matting	
			CL. A-1	CL. A-1	CL. A-1	CL. E-1	CL. F-4	CL. I-3			EACH	SQ. YD.	SQ. YD.	L.F.	SQ. YD.	SQ. YD.	
1-D	645+00 to 645+69	18"								1							
2-D	645+00 to 647+50	18"								1							
3-D	645+00 to 647+46	18"								1							
4-D	645+00 to 647+46	18"								1							
5-D	645+00 to 653+00	18"								1							
6-D	647+42 to 653+00	18"								1							
7-D	647+42 to 653+00	18"								1							
8-D	647+42 to 653+00	18"								1							
9-D	647+42 to 653+00	18"								1							
10-D	647+42 to 653+00	18"								1							
11-D	653+00 to 654+50	18"								1							
12-D	654+50 to 654+90	18"								1							
13-D	654+90 to 654+90	18"								1							
14-D	654+90 to 654+90	18"								1							
15-D	654+90 to 655+00	18"								1							
16-D	654+90 to 655+00	18"								1							
17-R	645+00 to 650+75	18"															
18-R	645+00 to 648+00	18"															
19-R	645+00 to 648+00	18"															
20-R	650+42.5 to 655+00	18"															

Sta. 645+00 to Sta. 655+00



**"B" HEADWALL Lt. & Rt.**

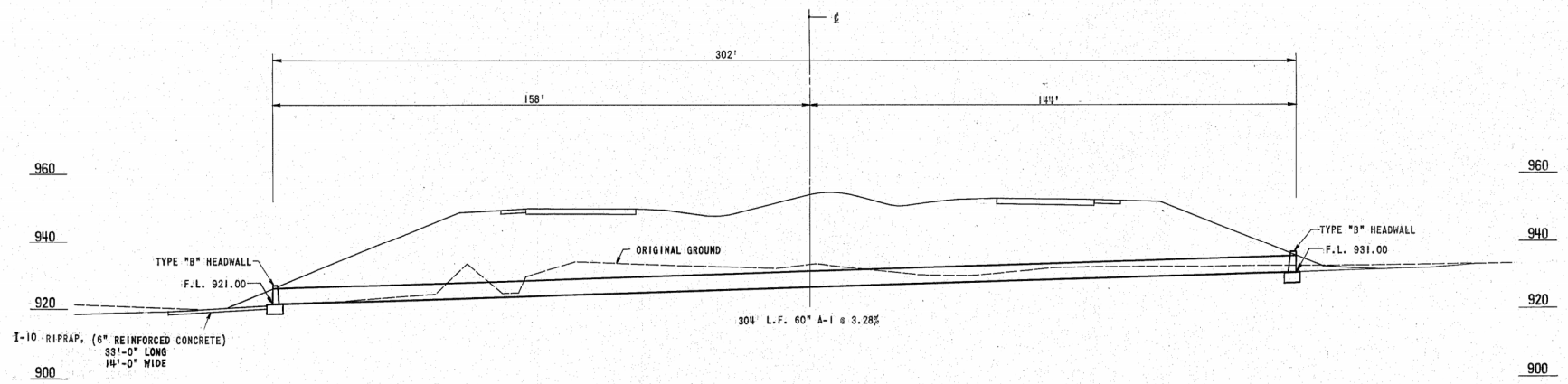
FOR STEEL BAR SIZE & ARRANGEMENT  
SEE SHEET 297



**ESTIMATED QUANTITIES**

- I-1 60" PIPE, CLASS A-1 SEC.M-6.4(g)10-106A.302 L.F.
  - I-2 MASONRY 54.30 C.Y.
  - I-10 RIPRAP, (6" REINFORCED CONCRETE) 51 S.Y.
  - L-10 SODDING 11.3 S.Y.
- CONSTRUCT 60" PIPE CULVERT WITH 2-TYPE B HEADWALLS & EXCAVATE CHANNEL AS SHOWN. PLACE 18" SOD COLLAR AT HEADWALLS AS SHOWN. CONSTRUCT I-10 REINFORCED CONCRETE RIPRAP LT. AS SHOWN.

D. A. = 257 ACRES      Q<sub>50</sub> = 203 C.F.S.



**STRUCTURE NO. TRU -80-1197**  
 Station 647+44  
 Skew 37° 30' L.F.  
 Scale 1" = 20'