

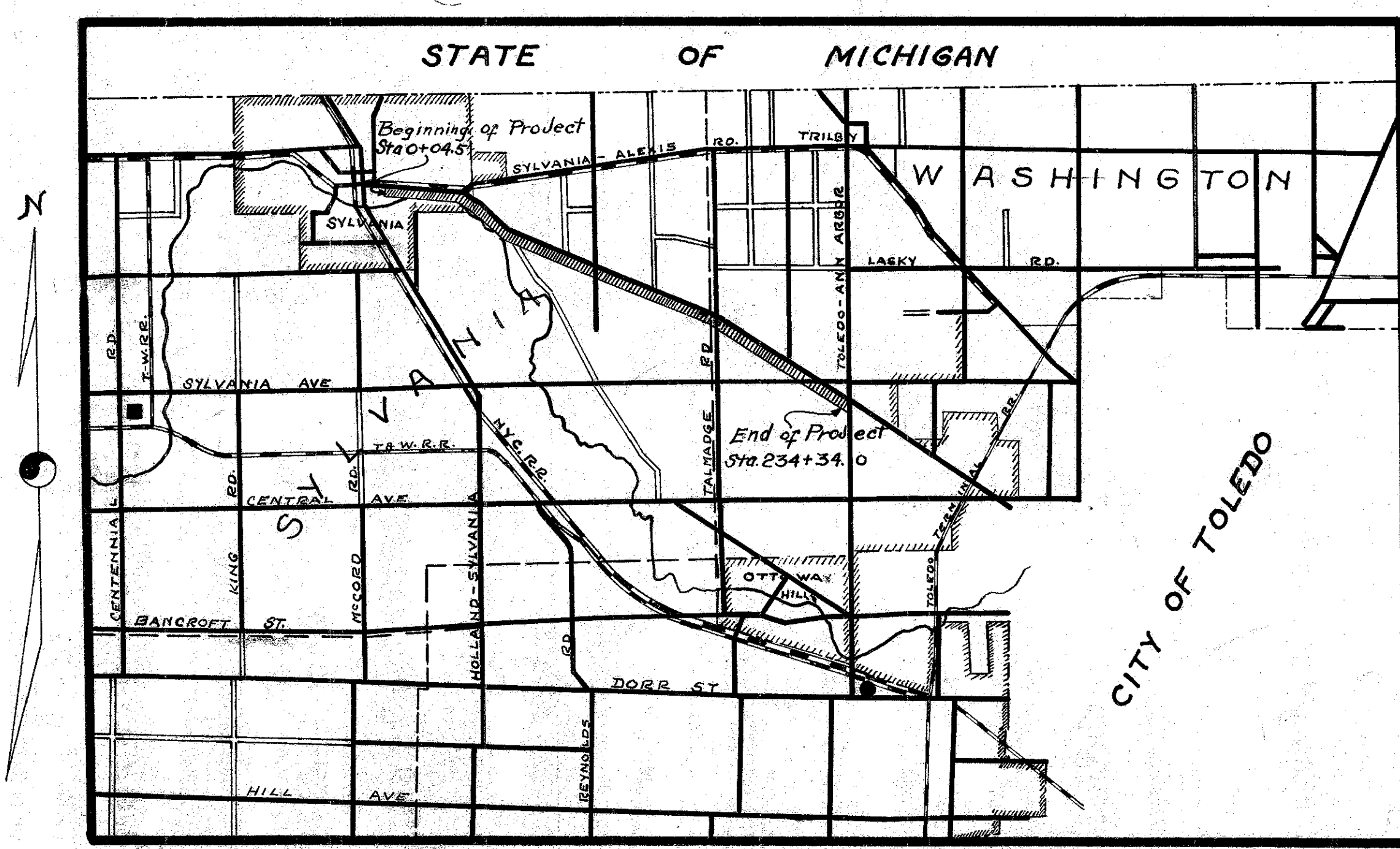
#3070

TOLEDO-LANSING RD. SH. 54  
SEC. C & SYLVANIA  
LUCAS COUNTY, OHIO.

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS  
TOLEDO - LANSING ROAD  
S.H. 54 SEC'S. C <sup>and</sup> SYLVANIA (PT.)  
LUCAS COUNTY  
SYLVANIA & WASHINGTON TOWNSHIPS 1932  
& SYLVANIA VILLAGE

CONVENTIONAL SIGNS

- STATE LINE -----
- COUNTY LINE -----
- TOWNSHIP LINE -----
- SECTION LINE -----
- PROPERTY LINE (not fenced) -----
- CENTER LINE -----
- CITY OR VILLAGE LINE -----
- FENCE -----
- TELEPHONE OR TELEGRAPH T T T T
- STEAM OR ELECTRIC R.R. -----
- GUARD RAIL -----
- DRAIN PIPE (new) -----
- DRAIN PIPE (old) -----
- FIRE HYDRANT ○
- WATER SERVICE TAP ●



LOCATION PLAN  
SCALE 3"=1 MILE  
Section To Be Improved  
Supplemental Drawings No 95-96-98-100-123-127-129-134-300  
Delivery Points. ● = Supply Yard ■ = Quarry

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✓ The Standard Specifications Of The State Of Ohio, Department Of Highways In Force On Date Of Contract Will Govern This Improvement.  
I, Hereby, Approve These Plans And Declare That The Making Of This Improvement Will Not Require The Closing Of The Highway To Traffic.

Approved \_\_\_\_\_  
Date 4-1-'32 Resident District Deputy Director.

Approved \_\_\_\_\_  
Date 4-4-'32 Resident Division Deputy Director

Approved \_\_\_\_\_  
Date 4/8-'32 Chief Engineer  
Bureau of Construction.

Approved \_\_\_\_\_  
Date \_\_\_\_\_ Chief Engineer  
Bureau of Maintenance

Approved \_\_\_\_\_  
Date \_\_\_\_\_ Chief Engineer  
Bureau of Bridges

Approved \_\_\_\_\_  
Date 4/8-'32 Chief Engineer, And  
First Assistant Director.

Approved \_\_\_\_\_  
Date 4/8-'32 Director of Highways.

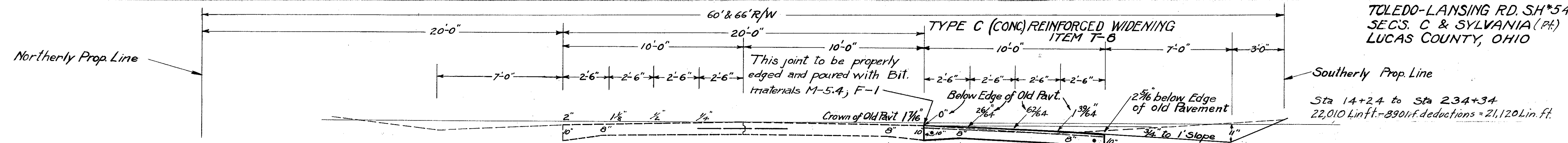
Recommended for Approval \_\_\_\_\_  
Date \_\_\_\_\_ District Engineer  
Bureau of Public Roads

Recommended for Approval \_\_\_\_\_  
Date \_\_\_\_\_ Chief Engineer  
Bureau of Public Roads.

Approved \_\_\_\_\_  
Date \_\_\_\_\_ Chief of Bureau

OK. For 10' Conc. widening  
To old 20' Conc. Pavt.  
G.M. 4/8/32

CONSTRUCTION  
BUREAU  
JUN 30 1932  
GROUND PHOTOLAB

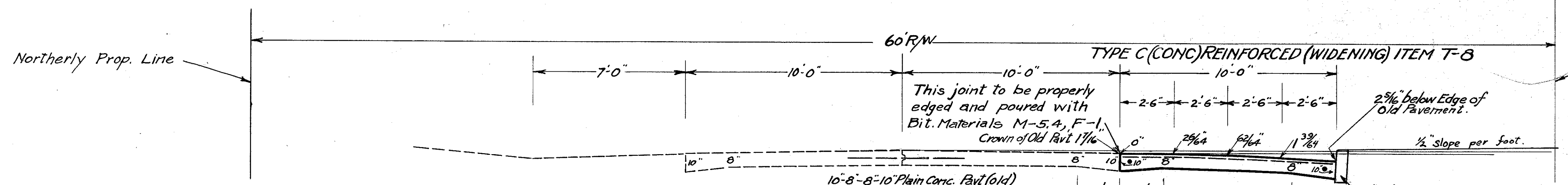
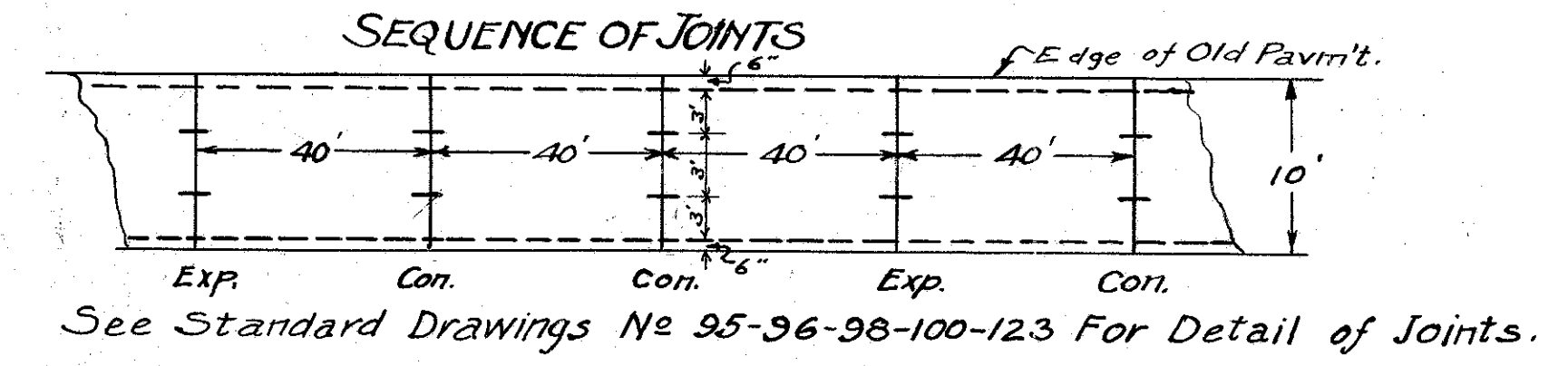


This joint to be properly edged and poured with Bit. Materials M-5.4, F-1

10'-8'-8'-10' Plain Conc. Pavt (old)  
Machine finished 1-2-3 Mix  
Std. Drwg. No 100 Construction

Edge Bars Not To Be Painted Or Greased.

10'-8'-8'-10' Reinforced Conc. Pavt. 1-6 Mix (Machine finished) Std. Drwg. 95-96-98-100-123.  
Dowels & Edge Bars (Stand. Drwg. No 100 or 98)  
Contraction Joint as per Specifications } Alternate Expansion and 2 Contraction Joints at 40' Intervals.  
Expansion Joint as per Specifications } Sequence Below.  
Wire Mesh Reinforcement (Type A, B or C Reinforcing)  
Concrete to be struck off mechanically before placing  
Reinforcing Steel as directed by Engineer in charge



This joint to be properly edged and poured with Bit. Materials M-5.4, F-1

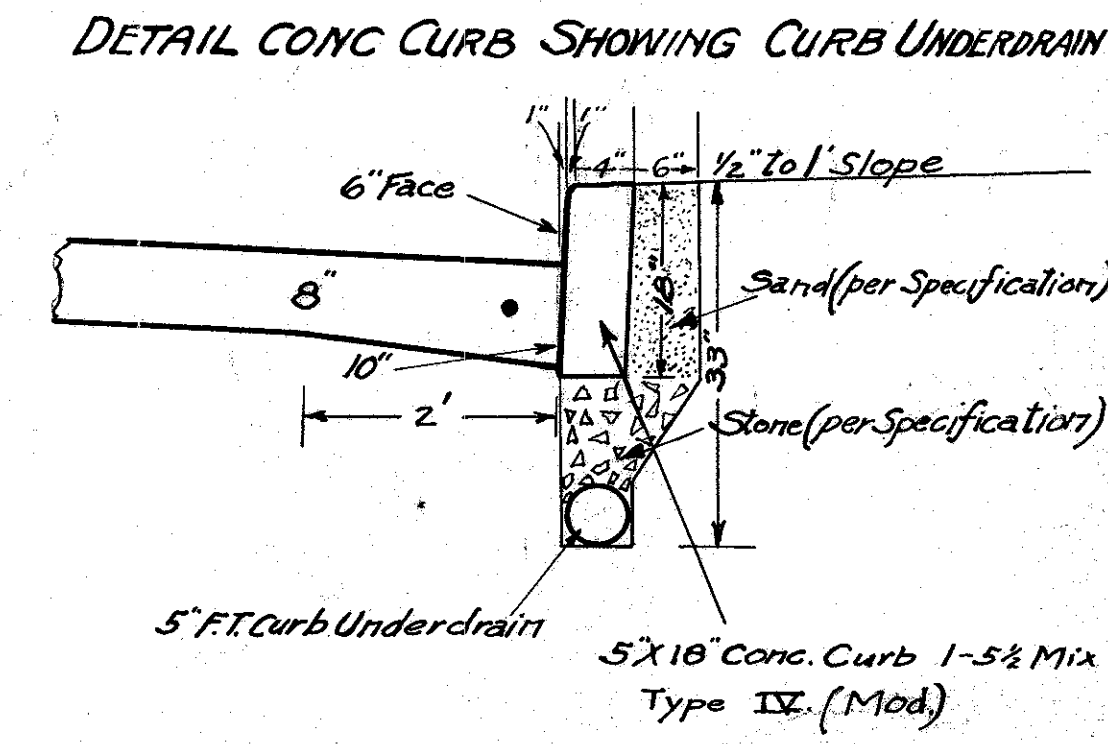
10'-8'-8'-10' Plain Conc. Pavt (old)  
Machine finished 1-2-3 Mix  
Std. Drwg. No 100 Construction

Edge Bars Not To Be Painted Or Greased.

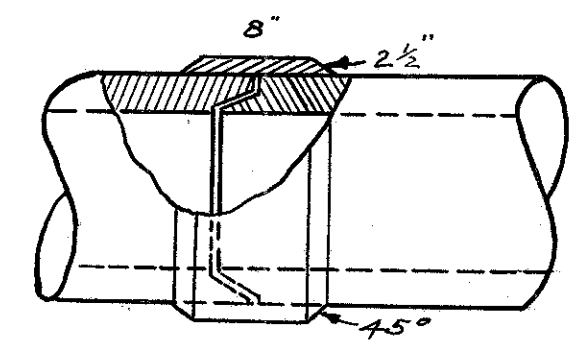
10'-8'-8'-10' Reinf. Conc. Pavt. 1-6 Mix (Machine finished) Std. Drwg. No 95-96-98-100-123  
Dowels & Edge bars (Std. Drwg. No 100 or 98)  
Contraction Joint as per Specifications } Alternate Expansion and 2 Contraction Joints at 40' Intervals.  
Expansion Joint as per Specification } See Sequence above.  
Wire Mesh Reinforcement (Type A, B or C Reinforcing)  
Concrete to be struck off mechanically before placing Reinforcing Steel as directed by Engineer in charge.

5'x18" Conc. Curb 1-5 1/2 Mix See Detail Below, Type IX (Mod.)

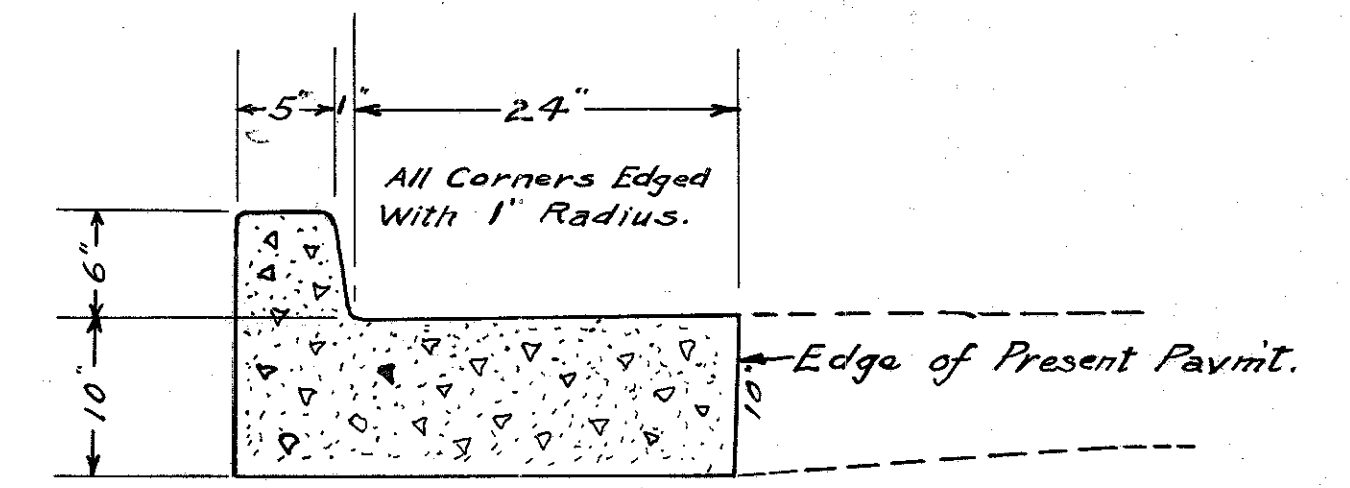
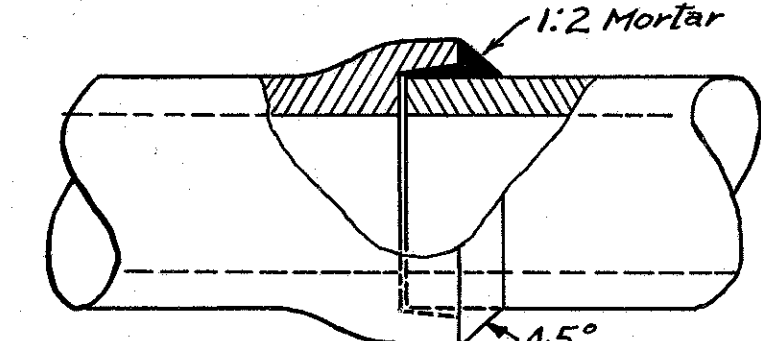
Sta. 0+04.5 to 14+24  
1419.5 Lin. Ft. ✓



DETAIL OF TONGUE & GROOVE PIPE SHOWING SADDLE JOINT

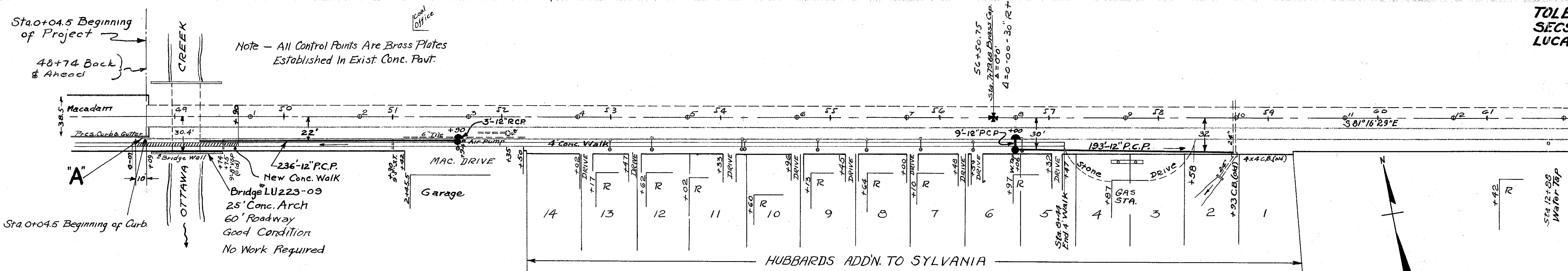


DETAIL OF BELL & SPIGOT PIPE SHOWING CEMENTED JOINT

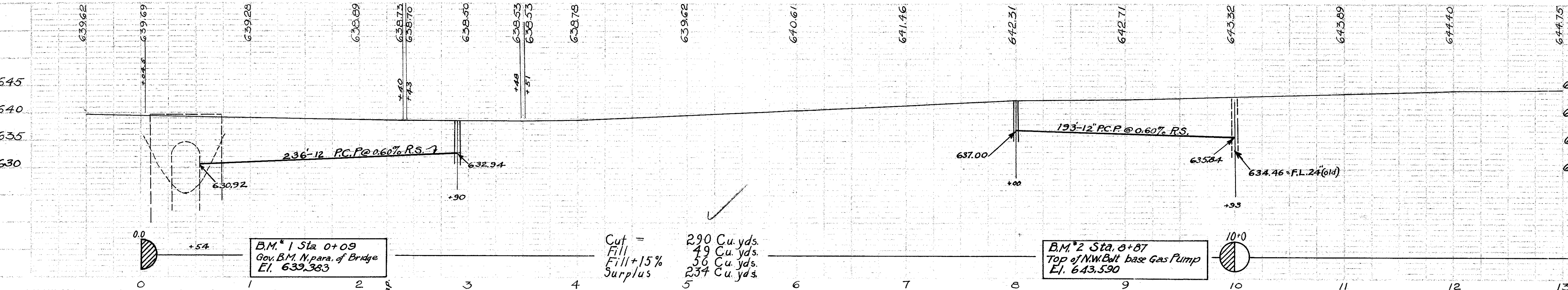


TYPE I (Mod.) CURB  
Sta. 221+96.25 to 223+00 1:5 1/2 Mix, 103.75 Lin. ft. No Dowel Required  
Sta. 0-06.5 to 0+04.5 Similar Except Apron Varies From 18" to 30" 11 Lin. ft.  
Sta. 221+60 to Sta 221+96.25 Similar Except Apron Varies From 0" to 24" 36.25 Lin. ft. ✓

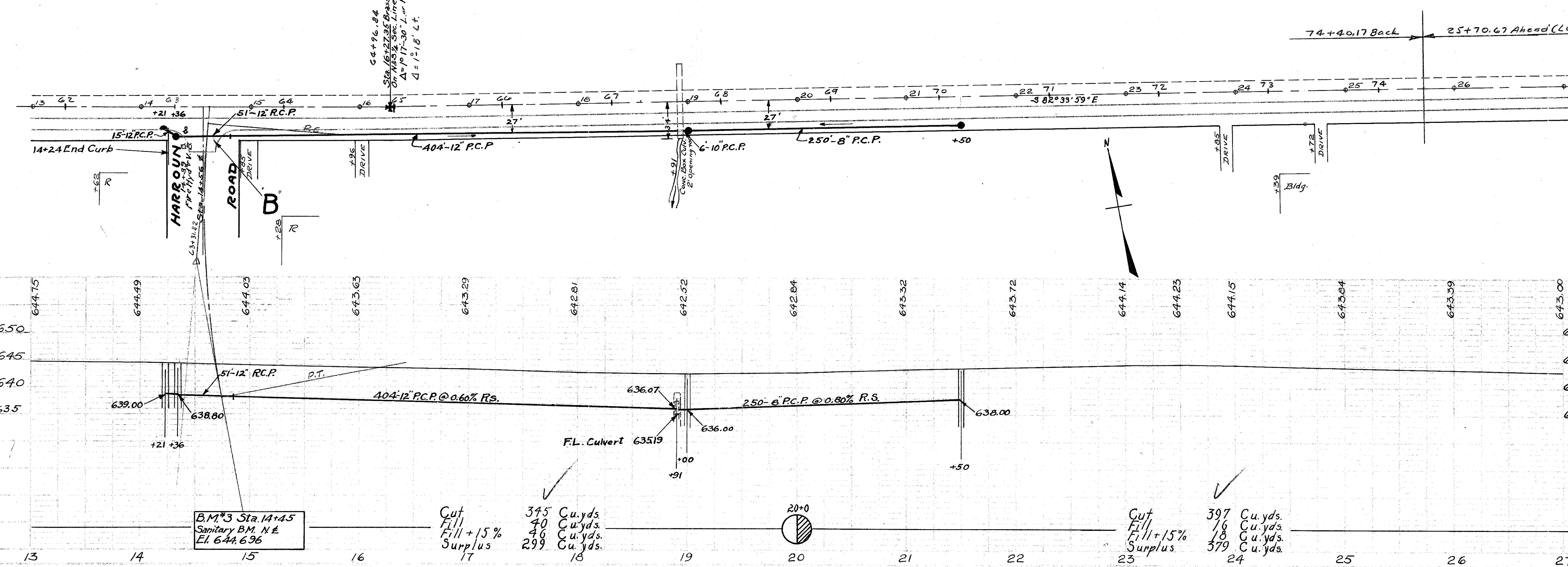
Existing 5" Field Tile in Good Condition. No Work Required.



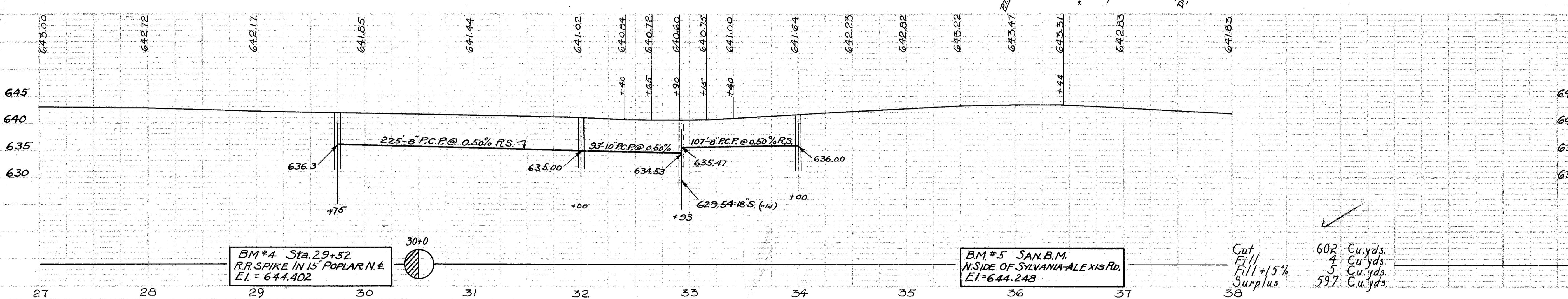
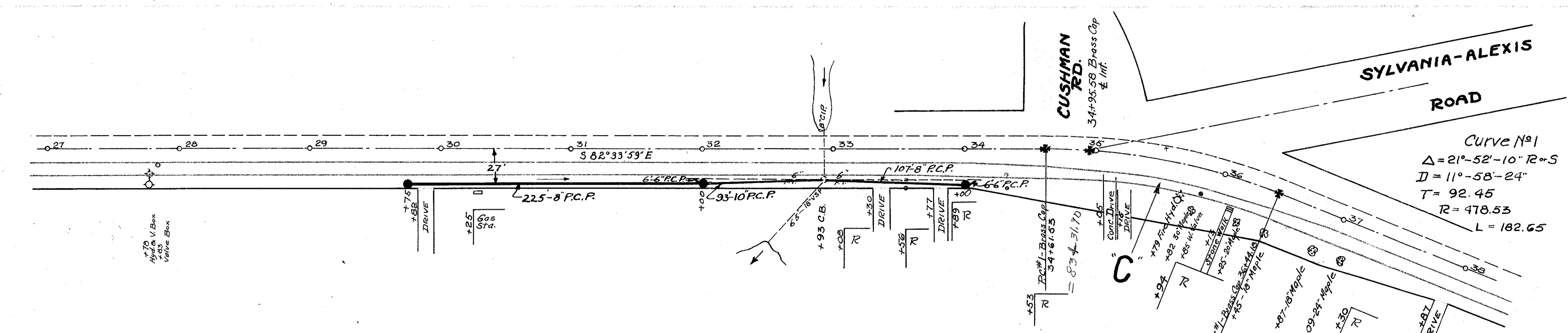
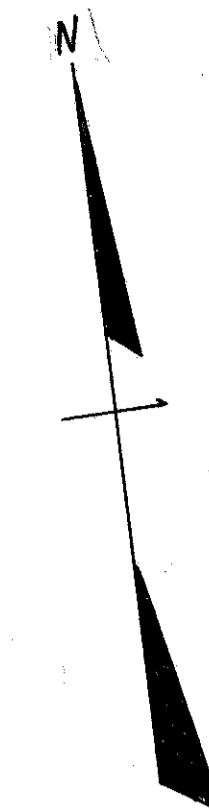
Note - All Control Points Are Brass Plates  
Established In Exist. Conc. Pavt.



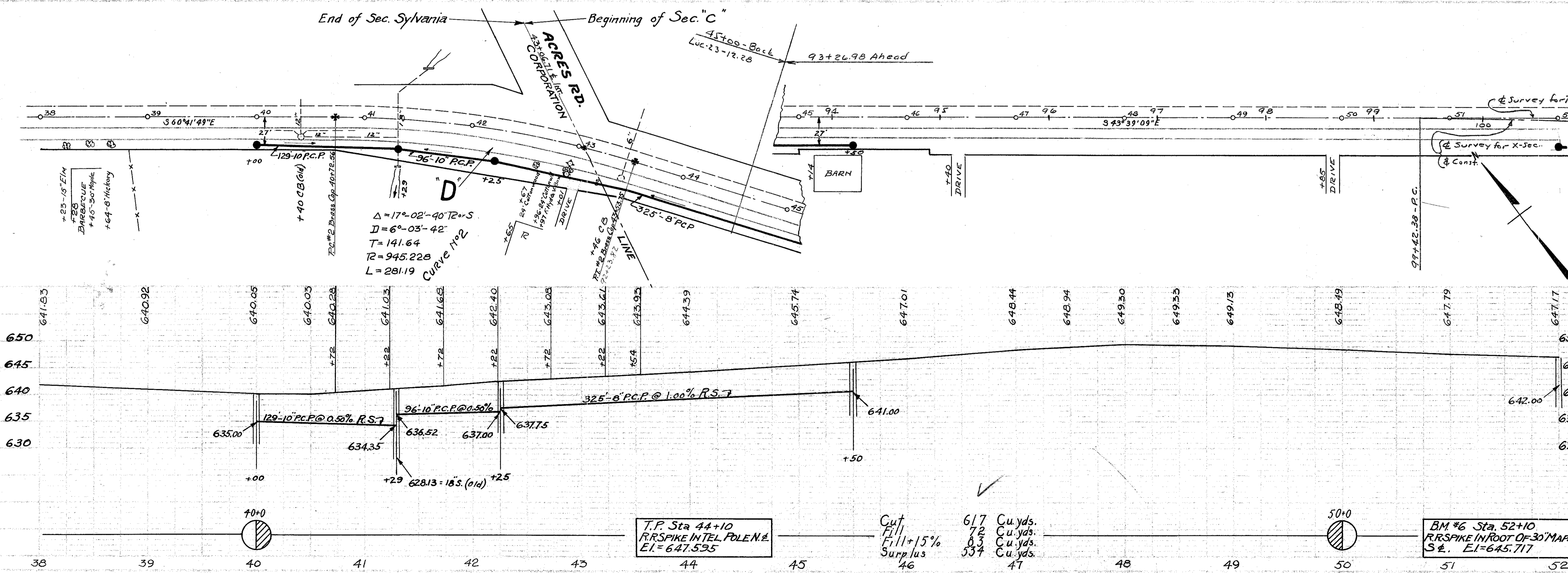
- ✓ Sta 0-07 To 0+90 Const. 9'-4" Conc. Walk
- ✓ Sta 0+54 To 2+90 Lay 236'-12" P.C.P.
- ✓ Sta 2+42 Drive - 378 Sq. Ft. - 1-6 Conc. 108' x 3 1/2' x 6"
- ✓ Sta 2+90 Extend Water Service Tap RS
- ✓ Sta 2+90 Const. 1-Sp CB #1, Lay 3'-12" R.C.P. and Const. 1-Sp. M.H. RS.
- ✓ Sta 3+35 Remove Old CB Tap And Set New MH Top To Grade.
- ✓ Sta 4+02 Drive 1 Cu. Yd. Stone
- ✓ Sta. 4+31 Extend Water Service Tap RS
- ✓ Sta. 4+47 Drive 1 Cu. Yd. Stone
- ✓ Sta. 4+69 EXT. Water Service Tap RS
- ✓ Sta. 5+33 Drive 1 Cu. Yd. Stone
- ✓ Sta. 5+51 Ext. Water Service Tap RS
- ✓ Sta. 5+52 Ext. Water Service Tap RS
- ✓ Sta. 5+96 Drive. 1 Cu. Yd. Stone
- ✓ Sta 6+19 Ext. Water Service Tap RS
- ✓ Sta 6+45 Drive 1 Cu. Yd. Stone
- ✓ Sta. 6+65 EXT. Water Service Tap RS
- ✓ Sta 7+00 Drive 1 Cu. Yd. Stone
- ✓ Sta 7+13 Ext. Water Service Tap RS
- ✓ Sta 7+48 Drive 1 Cu. Yd. Stone
- ✓ Sta 7+59 Drive 1 Cu. Yd. Stone
- ✓ Sta 7+61 Ext. Water Service Tap RS
- ✓ Sta. 8+00 To 9+93 Lay 193'-12" P.C.P. RS
- ✓ Sta 8+06 EXT. Water Service Tap RS
- ✓ Sta 8+32 Drive. 1 Cu. Yd. Stone
- ✓ Sta. 8+47 Drive } 14 Cu. Yds. Stone
- ✓ Sta. 9+58 Drive }
- ✓ Sta. 9+93 Exist. Structure in good condition no work Req.
- ✓ Sta 12+88 Water Service Tap No Work Req.



- ✓ Sta. 14+21 Const. 1-Sp. CB #1 RS.
- ✓ Sta 14+21 To 14+36 Lay 15'-12" P.C.P. RS.
- ✓ Sta. 14+36 Const. 1-Sp. M.H. RS
- ✓ Sta 14+36 To 14+87 Lay 51'-12" R.C.P. RS
- ✓ Sta 14+39 Reset 1- Fire Hyd. & Valve
- ✓ Sta. 14+87 To 18+91 Lay 404'-12" P.C.P.
- ✓ Sta 14+85 Drive 1 Cu. Yd. Stone
- ✓ Sta 15+96 Drive 1 Cu. Yd. Stone
- ✓ Sta 18+91 Conc. Box Culv. Good Cond. No Work Req.
- ✓ Sta 18+91 To 19+00 Lay 6'-10" P.C.P.
- ✓ Sta 19+00 Const. 1-Sp CB #2 (Less Tap)
- ✓ Sta 19+00 To 21+50 Lay 250'-8" P.C.P.
- ✓ Sta 21+50 Const. 1-Sp CB #2 RS
- ✓ Sta 23+85 Drive 1 Cu. Yd. Stone
- ✓ Sta 24+64 Water Service - No Work
- ✓ Sta 24+72 Drive 1 Cu. Yd. Stone



- ✓ Sta 27+78 Reset 1-Fire Hyd & Valve RS
- ✓ Sta 27+83 Const 1-Add. Valve Box Over Valve
- ✓ Sta 29+75 Const. 1-Sp.CB#2 RS.
- ✓ Sta 29+75 To 32+00 Lay 225'-8" PC.P.
- ✓ Sta 29+82 Drive 1 Cu. Yd. Stone
- ✓ Sta 32+00 Const. 1-Sp.CB#2 (Less Top)
- ✓ Lay 6'-6" PC.P. To Connect With Old
- ✓ 6' FT. AS SHOWN ON PLAN RS.
- ✓ Sta 32+00 To 32+93 Lay 93'-10" PC.P.
- ✓ And Connect With Old CB AT
- ✓ 32+93 RS.
- ✓ Sta 32+93 Remove Old CB Top And
- ✓ Set New MH Top To Grade RS.
- ✓ Sta 32+93 To 34+00 Lay 107'-8" PC.P.
- ✓ Sta 33+30 Drive 1 Cu. Yd. Stone
- ✓ Sta 33+55 Ext. Water Service Tap RS
- ✓ Sta 33+77 Drive 1 Cu. Yd. Stone
- ✓ Sta 34+00 Const. 1-Sp.CB#2 And
- ✓ Lay 6'-6" PC.P. To Connect
- ✓ With Old 6' FT. AS SHOWN ON PLAN R.
- ✓ Sta 34+32 Ext. Water Service Tap RS.
- ✓ Sta 35+05 Conc. Dr. 180 Sq. Ft. 6" Conc. 1-6" Max
- ✓ Sta 35+15 Drive 1 Cu. Yd. Stone
- ✓ Sta 35+79 Reset 1-Fire Hyd & Valve RS.
- ✓ Sta 35+85 Const 1-Adjustable Valve
- ✓ Box & Cover Over Exist Valve
- ✓ Sta 36+25 Remove 20" Maple RS.
- ✓ Sta 36+13 Stone Walk & Steps (Relay)
- ✓ Sta 36+87 Remove 1-18" Maple RS
- ✓ Sta 37+09 Remove 1-24" Maple RS
- ✓ Sta 37+87 Drive 1 Cu. Yd. Stone
- ✓ Sta 32+93 Old 18" x-Tile No Work Req



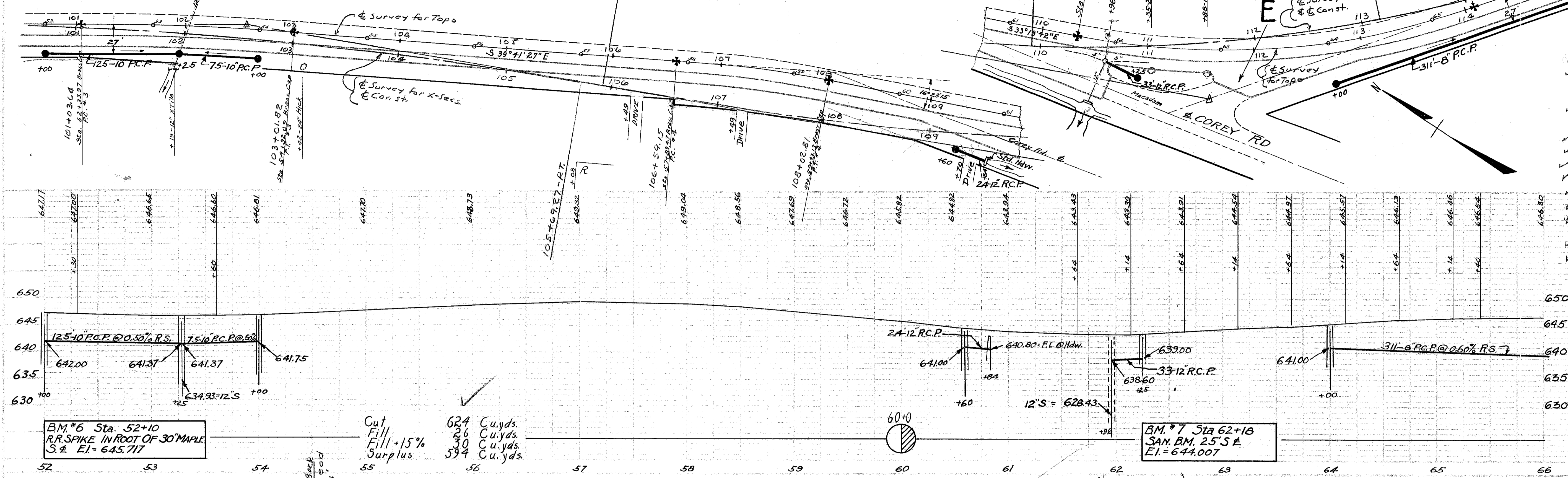
- ✓ Sta 38+23 Remove 1-15" Elm RS
- ✓ Sta 38+45 Remove 1-30" Maple RS.
- ✓ Sta 38+64 Remove 1-8" Hickory RS
- ✓ Sta 40+00 Const. 1-Sp.CB#2 (Less Top)
- ✓ Sta 40+00 To 41+29 Lay 129'-10" PC.P.
- ✓ Sta 40+40 Remove Old CB Top And
- ✓ Set New MH Top To Grade RS.
- ✓ Sta 40+40 Exist x-Over No Work Req.
- ✓ Sta 41+29 Const. 1-Sp.CB#2 Over
- ✓ Exist x-Over.
- ✓ Sta 41+29 Exist x-Over No Work Req.
- ✓ Sta 41+29 To 42+25 Lay 96'-10" PC.P.
- ✓ Sta 42+25 Const. 1-Sp.CB#2 (Less Top)
- ✓ Sta 42+25 To 45+50 Lay 325'-8" PC.P.
- ✓ Sta 42+67 Remove 1-24" Cottonwood RS
- ✓ Sta 42+96 Remove 1-24" Cottonwood RS
- ✓ Sta 42+97 Reset 1-Fire Hyd. & Valve RS
- ✓ Sta 43+01 Drive 1 Cu. Yd. Stone
- ✓ Sta 43+20 Ext. Water Service Tap R.
- ✓ Sta 43+46 Remove Old CB Top And
- ✓ Set New MH Top To Grade
- ✓ Sta 43+46 Exist x-Over No Work
- ✓ Sta 45+50 Const. 1-Sp.CB#2 RS
- ✓ Sta 46+40 Drive 1 Cu. Yd. Stone
- ✓ Sta 49+85 Drive 1 Cu. Yd. Stone

TOLEDO-LANSING RD. SH.#54  
SECS C & SYLVANIA (A)  
LUCAS COUNTY, OHIO.

Curve #3 P.I. = 102+02.74  
Δ = 3°-57'-42" R.O.S  
T = 99.10  
D = 1°-59'-59"  
R = 2865.33  
L = 198.12

Curve #4 P.I. = 107+31.05  
Δ = 6°-27'-45" R.O.S  
T = 71.90  
D = 4°-29'-55"  
R = 1273.62  
L = 143.66

Curve #5 P.I. = 112+25.54  
Δ = 30°-01'-15" L.O.N  
T = 192.20  
D = 7°-59'-36"  
R = 716.78  
L = 375.94

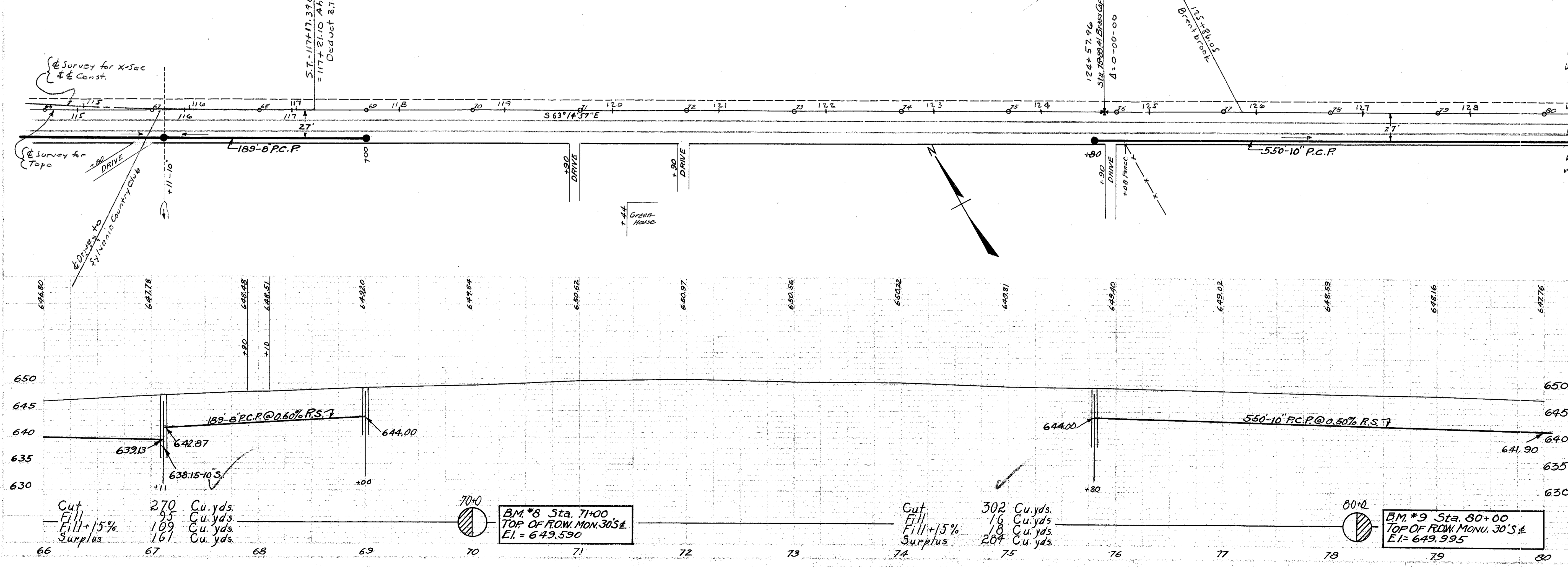


- ✓ Sta 52+00 Const. 1-Sp CB#2 - RS
- ✓ Sta 52+00 to 53+25 Lay 125'-10" PCP
- ✓ Sta 53+25 Const. 1-Sp CB#2 - RS. Over Exist. 12" Line
- ✓ Sta 53+25 Old 12" X-Over. No Work.
- ✓ Sta 54+00 Const. 1-Sp CB#2 RS
- ✓ Sta 57+49 Drive 1 Cu Yd. Stone
- ✓ Sta 58+49 Drive 1 Cu Yd. Stone
- ✓ Sta 60+60 Const. 1-Sp CB#2 RS
- ✓ Sta 60+60 To 60+84 Lay 24'-12" RCP
- ✓ Sta 60+70 Drive 1 Cu Yd. Stone
- ✓ Sta 60+84 Const. 1-Std. Haw. Dwg#30
- ✓ Sta 61+96 Old 12" X-Over. Remove CB Top & Set New MH Top To Grade
- ✓ Sta 61+96 To 62+25 Lay 33'-12" RCP
- ✓ Sta 62+25 Const. 1-Sp CB#2 (Less Top)
- ✓ Sta 62+35 Remove 1-24" Maple RS
- ✓ Sta 62+50 Corey Rd. 3 Cu Yds. Stone
- ✓ Sta 62+88 Remove 1-15" Wild Cherry
- ✓ Sta 64+00 Const. 1-Sp CB#2 RS
- ✓ Sta 64+00 To 67+11 Lay 311'-8" PCP
- ✓ Sta 61+96 Old 12" X-Over. No Work.

Cut 624 Cu.yds.  
Fill 26 Cu.yds.  
Fill +15% 30 Cu.yds.  
Surplus 594 Cu.yds.

BM #7 Sta. 62+18  
SAN. BM. 25'S E  
E.I. = 644.007

BM #6 Sta. 52+10  
RR SPIKE IN ROOT OF 30" MAPLE  
S.E. E.I. = 645.717



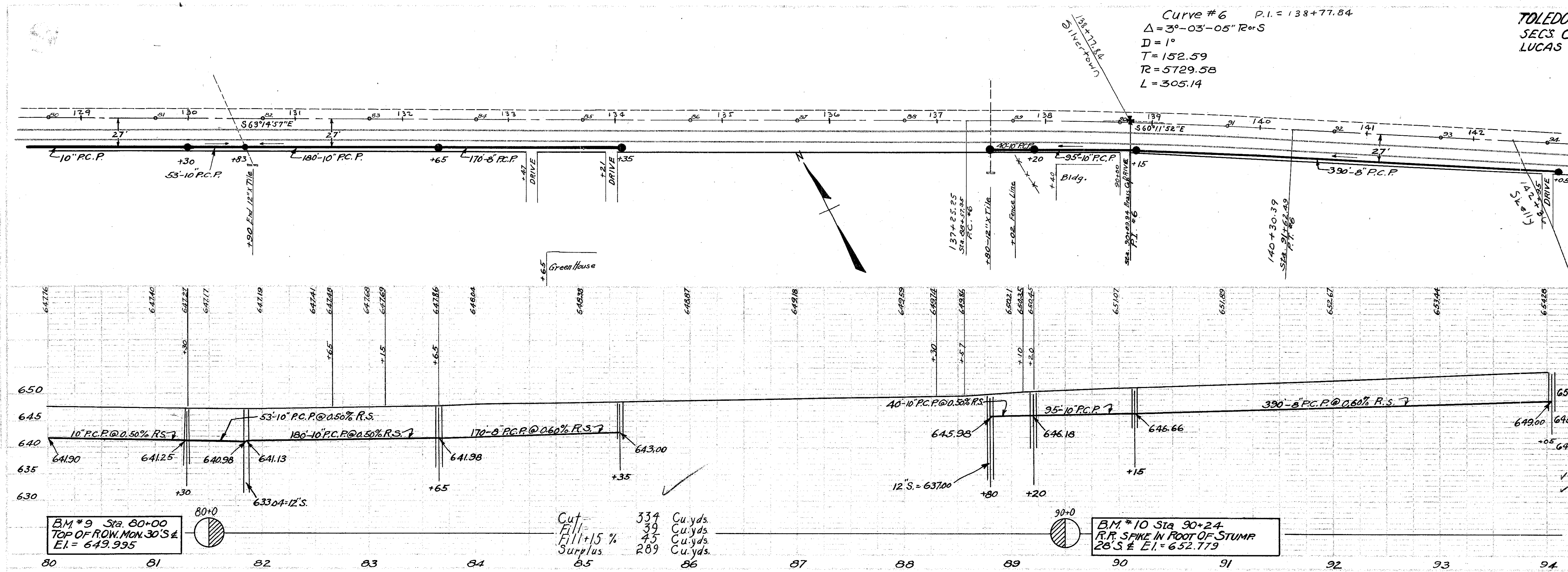
- ✓ Sta 66+80 Drive 1 Cu Yd. Stone
- ✓ Sta 67+11 Old 10" X-Over. No Work Req
- ✓ Sta 67+11 Const. 1-Sp CB#2 RS Over Exist. 10" Line
- ✓ Sta 67+11 To 69+00 Lay 189'-8" PCP
- ✓ Sta 69+00 Const. 1-Sp CB#2 RS
- ✓ Sta 70+90 Drive 1 Cu Yd. Stone
- ✓ Sta 71+90 Drive 1 Cu Yd. Stone
- ✓ Sta 75+80 Const. 1-Sp CB#2 RS
- ✓ Sta 75+80 To 81+30 Lay 550'-10" PCP
- ✓ Sta 75+90 Drive 1 Cu Yd. Stone

Cut 270 Cu.yds.  
Fill 95 Cu.yds.  
Fill +15% 109 Cu.yds.  
Surplus 161 Cu.yds.

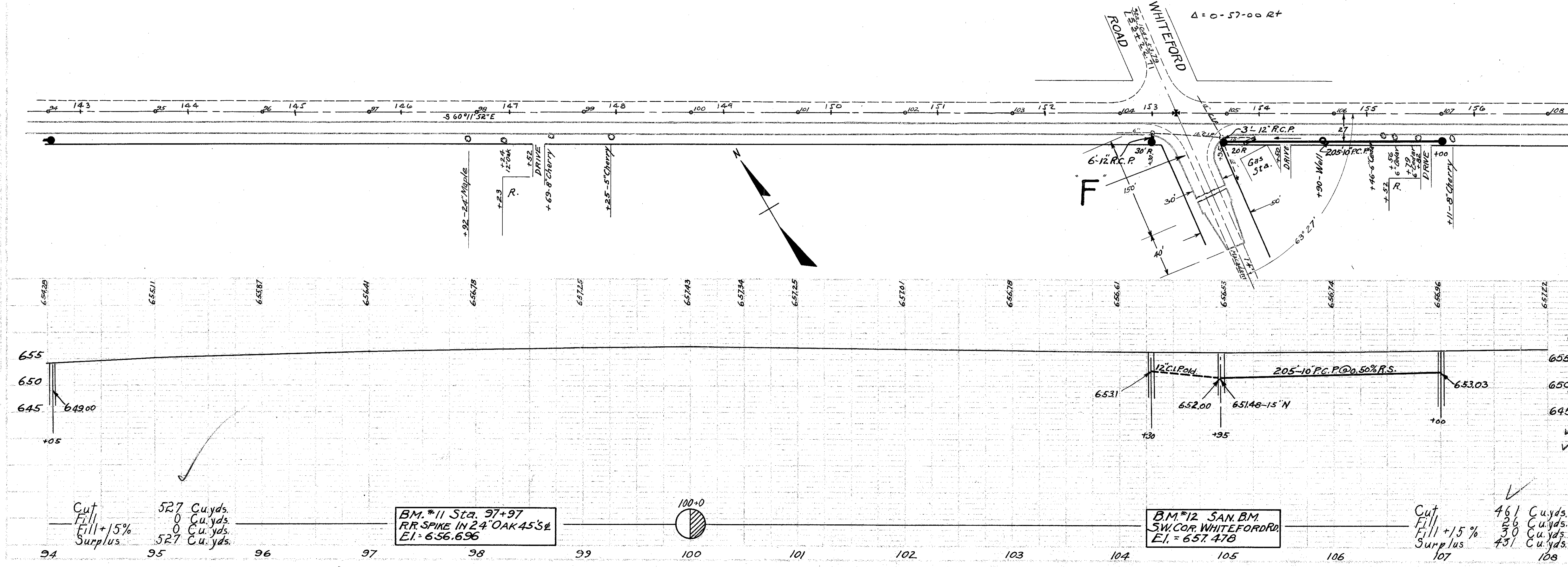
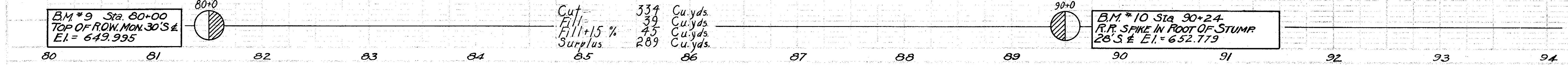
Cut 302 Cu.yds.  
Fill 16 Cu.yds.  
Fill +15% 18 Cu.yds.  
Surplus 284 Cu.yds.

BM #9 Sta. 80+00  
TOP OF ROW. MON. 30'S E  
E.I. = 649.995

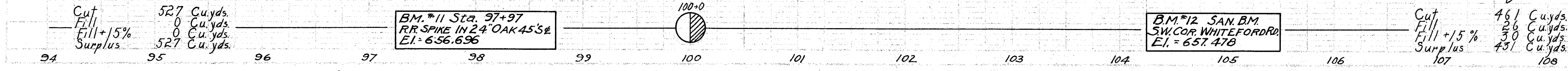
BM #8 Sta. 71+00  
TOP OF ROW. MON. 30'S E  
E.I. = 649.590

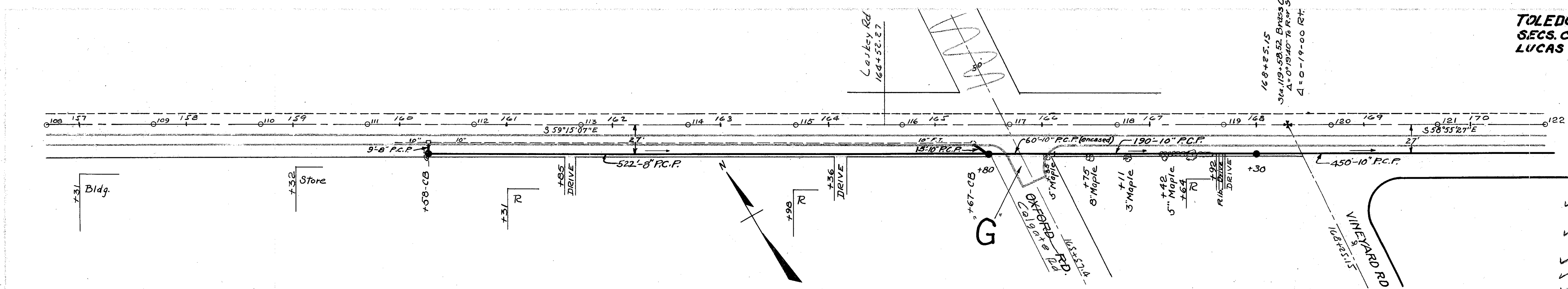


- ✓ Sta 81+30 Const. 1-Sp CB#2 RS
- ✓ Sta 81+30 to 81+33 Lay 53'-10" PCP
- ✓ Sta 81+33 Const. 1-Sp CB#2 RS Over Exist. 12" Line
- ✓ Sta 81+83 to 83+65 Lay 182'-10" PCP
- ✓ Sta 83+65 Const. 1-Sp CB#2 RS
- ✓ Sta 83+65 to 85+35 Lay 170'-8" PCP
- ✓ Sta 84+47 Drive 1 Cu. Yd. Stone
- ✓ Sta 85+21 Drive 1 Cu. Yd. Stone
- ✓ Sta 85+35 Const. 1-Sp CB#2 RS
- ✓ Sta 88+80 Const. 1-Sp CB#2 Over Exist. 12" Line
- ✓ Sta 88+80 to 89+20 Lay 90'-10" PCP
- ✓ Sta 89+20 Const. 1-Sp CB#2 RS
- ✓ Sta 89+20 to 90+15 Lay 95'-10" PCP
- ✓ Sta 90+00 Drive 1 Cu. Yd. Stone
- ✓ Sta 90+15 Const. 1-Sp CB#2 RS
- ✓ Sta 90+15 to 94+05 Lay 390'-8" PCP
- ✓ Sta 93+95 Drive 1 Cu. Yd. Stone
- ✓ Sta 94+05 Const. 1-Sp CB#2 RS
- ✓ Sta 81+83 Old 12" X-Over No Work
- ✓ Sta 88+80 Old 12" X-Over No Work

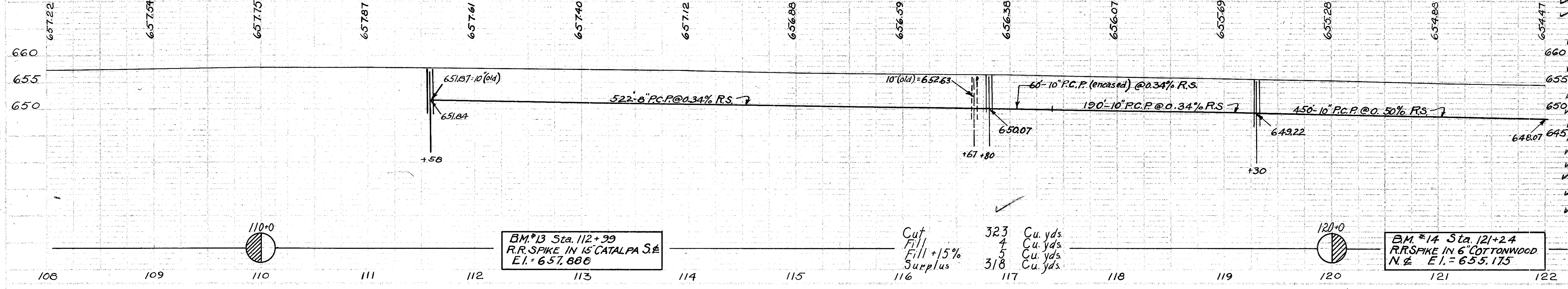


- ✓ Sta 91+92 Remove 1-24" Maple RS
- ✓ Sta 98+24 Remove 1-12" Oak RS
- ✓ Sta 98+52 Drive 1 Cu. Yd. Stone
- ✓ Sta 98+69 Remove 1-8" Cherry RS
- ✓ Sta 99+25 Remove 1-5" Cherry RS
- ✓ Sta 104+30 Const. 1-Sp CB#2 (less top) 6'-12" RCP to Old CB RS.
- ✓ Sta 104+30 Remove Old CB Top And Set New MH Top To Grade
- ✓ Sta 104+95 Const. 1-Sp CB#2 (less top) 3'-12" RCP to Old CB RS
- ✓ Sta 104+95 Remove Old CB Top And Set New MH Top To Grade RS
- ✓ Sta 104+95 to 107+00 Lay 205'-10" PCP
- ✓ Sta 106+56 Remove 1-6" Cedar RS
- ✓ Sta 106+79 Remove 1-6" Cedar RS
- ✓ Sta 106+82 Drive 1-Cu Yd Stone
- ✓ Sta 107+11 Remove 1-8" Cherry RS
- ✓ Sta 105+50 Drive 1-Cu Yd. Stone
- ✓ Sta 107+00 Const. 1-Sp CB#2 RS
- ✓ Sta 104+95 Old 15" & 12" X-Overs NO WORK.



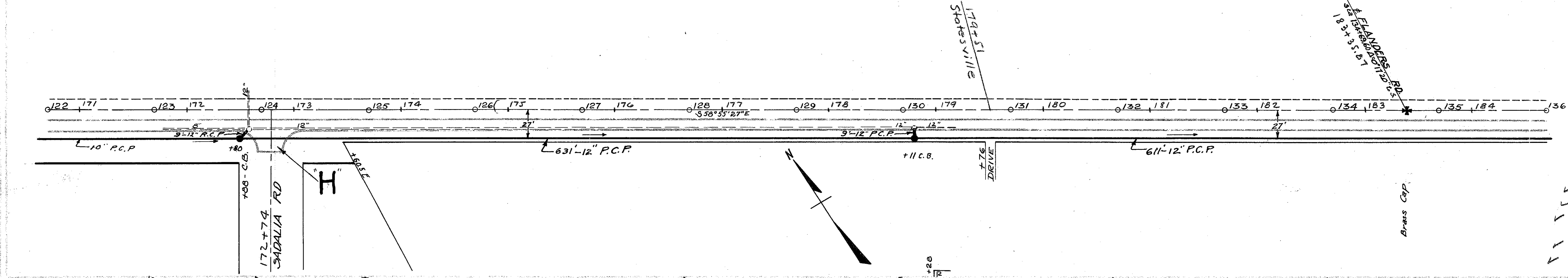


- ✓ Sta 111+58 Const. 1-Sp CB#2 (Less Top) Lay 9'-8" PCP To Old CB RS.
- ✓ Sta 111+58 Remove Old CB Top & Set New MH Top To Grade.
- ✓ Sta 111+58 To 116+80 Lay 522'-8" PCP.
- ✓ Sta 112+85 Drive 1 Cu. Yd. Stone.
- ✓ Sta 115+36 Drive 1 Cu. Yd. Stone.
- ✓ Sta 116+67 Remove Old CB Top & Set New MH Top To Grade.
- ✓ Sta 116+80 Const. 1-Sp CB#2 (Less Top) Lay 15'-10" PCP To Old CB RS.
- ✓ Sta 116+80 To 117+40 Lay 60'-10" PCP Encased RS.
- ✓ Sta 117+35 Remove 1-5" Maple RS.
- ✓ Sta 117+40 To 119+30 Lay 190'-10" PCP.
- ✓ Sta 117+75 Remove 1-8" Maple RS.
- ✓ Sta 118+11 Remove 1-3" Maple RS.
- ✓ Sta 118+42 Remove 1-5" Maple RS.
- ✓ Sta 118+42 Remove Hedge.
- ✓ Sta 118+92 Drive 1-Cu Yd. Stone.
- ✓ Sta 119+30 Const. 1-Sp CB#2. RS.
- ✓ Sta 119+30 To 123+80 Lay 450'-10" PCP.

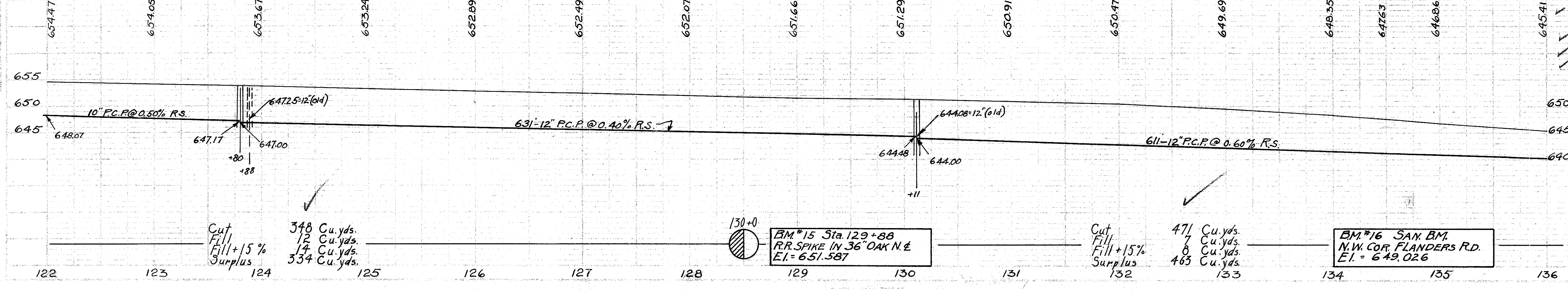


Cut	323	Cu. yds.
Fill	4	Cu. yds.
Fill +15%	5	Cu. yds.
Surplus	318	Cu. yds.

BM #14 Sta. 121+24  
R.R. SPIKE IN 6" COTTONWOOD  
N.E. E.I. = 655.175



- ✓ Sta 123+80 Const. 1-Sp CB#2 (Less Top) Lay 9'-12" RCP To Old CB RS.
- ✓ Sta 123+88 Remove Old CB Top & Set New MH Top To Grade. RS.
- ✓ Sta 123+80 To 130+11 Lay 631'-12" PCP.
- ✓ Sta 130+11 Const. 1-Sp CB#2 (Less Top) Lay 9'-12" PCP To Old CB RS.
- ✓ Sta 130+11 Remove Old CB Top And Set New MH Top To Grade.
- ✓ Sta 130+76 Drive 1 Cu. Yd. Stone.
- ✓ Sta 130+11 To 136+22 Lay 611'-12" PCP.
- ✓ Sta 123+88 Old 12" X-Over No Work.

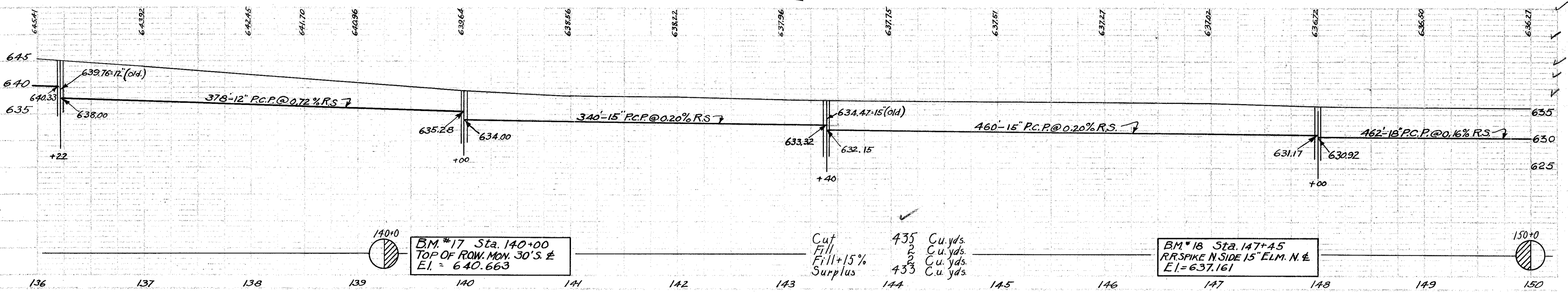
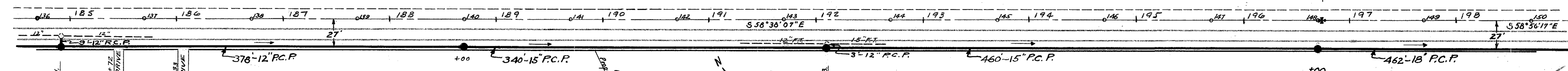


Cut	348	Cu. yds.
Fill	12	Cu. yds.
Fill +15%	14	Cu. yds.
Surplus	334	Cu. yds.

BM #15 Sta. 129+88  
R.R. SPIKE IN 36" OAK N.E.  
E.I. = 651.587

Cut	471	Cu. yds.
Fill	7	Cu. yds.
Fill +15%	8	Cu. yds.
Surplus	463	Cu. yds.

BM #16 SAN. BM.  
N.W. COR. FLANDERS RD.  
E.I. = 649.026

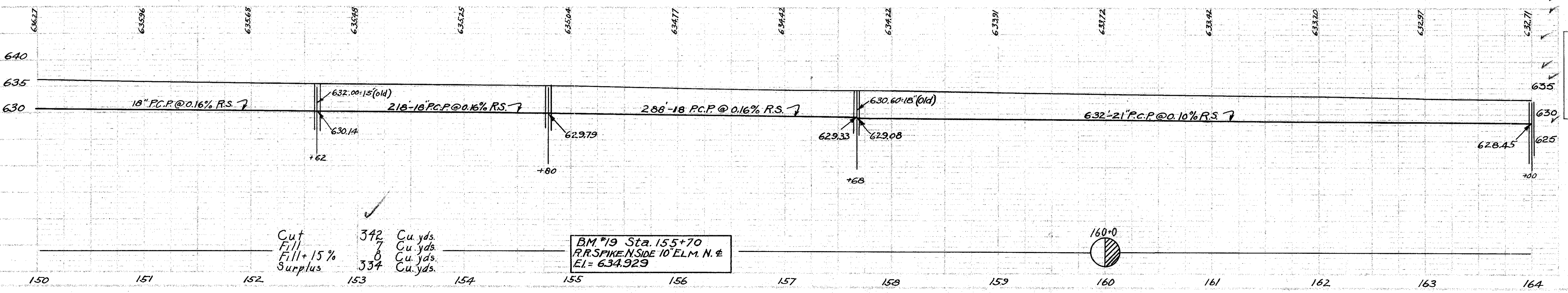
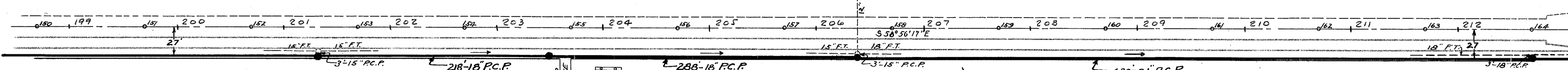


- ✓ Sta 136+22 Const 1-Sp CB #2 & Lay 9'-12" RCP To Old MH RS
- ✓ Sta 136+22 Reset Old MH Top To Grade
- ✓ Sta 136+22 To 140+00 Lay 378'-12" PCP
- ✓ Sta 136+72 Drive 1-Cu. Yd. Stone
- ✓ Sta 137+33 Drive 1-Cu. Yd. Stone
- ✓ Sta 140+00 Const 1-Sp CB #2 RS
- ✓ Sta 140+00 To 143+40 Lay 340'-15" PCP Lay 3'-12" PCP To Old CB RS
- ✓ Sta 143+40 Remove Old CB Top & set New MH Top To Grade
- ✓ Sta 143+40 To 148+00 Lay 460'-15" PCP
- ✓ Sta 148+00 Const 1-Sp CB #2 RS
- ✓ Sta 148+00 To 152+62 Lay 462'-18" PCP

BM #17 Sta. 140+00  
 TOP OF ROW. MON. 30'S &  
 E.I. = 640.663

Cut 435 Cu. yds.  
 Fill 2 Cu. yds.  
 Fill + 15% 433 Cu. yds.  
 Surplus

BM #18 Sta. 147+45  
 RR SPIKE N. SIDE 15" ELM. N. &  
 E.I. = 637.161

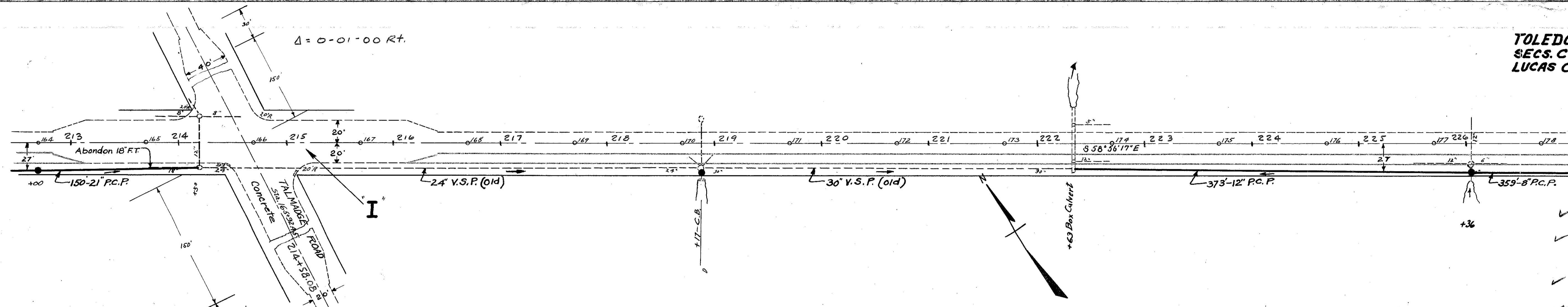


Cut 342 Cu. yds.  
 Fill 6 Cu. yds.  
 Fill + 15% 337 Cu. yds.  
 Surplus

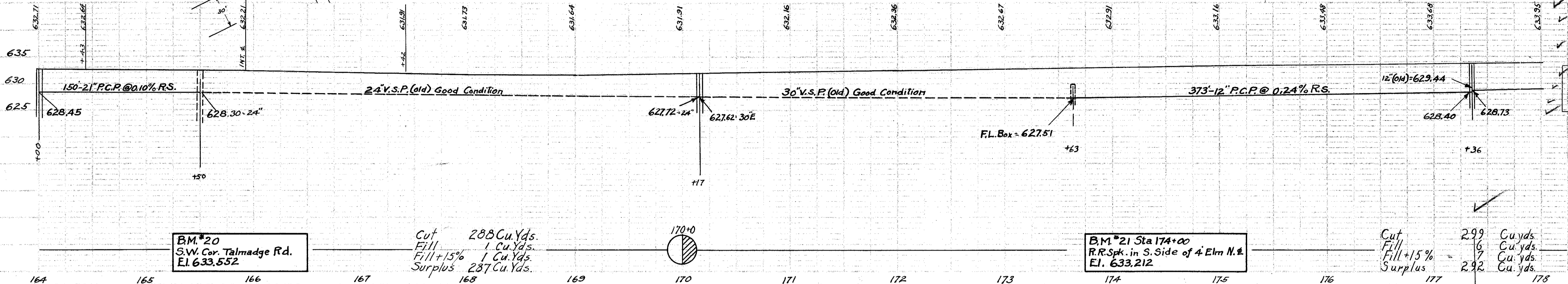
BM #19 Sta. 155+70  
 P.R. SPIKE N. SIDE 10" ELM. N. &  
 E.I. = 634.929

- ✓ Sta 152+62 Const 1-Sp CB #2 (Less Top) Lay 3'-15" PCP To Old MH RS
- ✓ Sta 152+62 Remove Old CB Top & Set New MH Top To Grade
- ✓ Sta 152+62 To 154+80 Lay 218'-18" PCP
- ✓ Sta 154+80 Const 1-Sp CB #2 RS
- ✓ Sta 154+80 To 157+68 Lay 288'-18" PCP
- ✓ Sta 154+90 Drive 1-Cu. Yd. Stone
- ✓ Sta 157+68 Const 1-Sp CB #2 (Less Top) Lay 3'-15" PCP To Old CB. RS
- ✓ Sta 157+68 Remove Old CB Top & Set New MH Top To Grade. RS
- ✓ Sta 157+68 To 164+00 Lay 632'-21" PCP
- ✓ Sta 164+00 Const 1-Sp CB #2 & Lay 3'-18" PCP To Connect With Old 18" FT. RS.
- ✓ Sta 157+68 Old 12" x-over No Work.





- ✓ Sta 164+00 To 165+50 Lay 150'-21" P.C.P. & Connect To Exist. CB AT 165+50
- ✓ Sta 165+50 Raise & Reset Old CB Top
- ✓ Sta 170+17 Const. 1-Sp CB#2 (less Top) Over Exist 12" X-Over RS
- ✓ Sta 170+17 Remove Old CB Top & Set New MH Top To Grade RS
- ✓ Sta 173+63 To 177+36 Lay 373'-12" P.C.P.
- ✓ Sta 177+36 Const. 1-Sp CB#2 (less Top) Over Exist 12" X-Over RS.
- ✓ Sta 177+36 Remove Old CB Top & Set New MH Top To Grade RS
- ✓ Sta 177+36 To 180+95 Lay 359'-8" P.C.P.
- ✓ Sta 170+17 Old 12" X-Over No Work.
- ✓ Sta 173+63 Old Box Culvert No Work.
- ✓ Sta 177+36 Old X-over No Work.



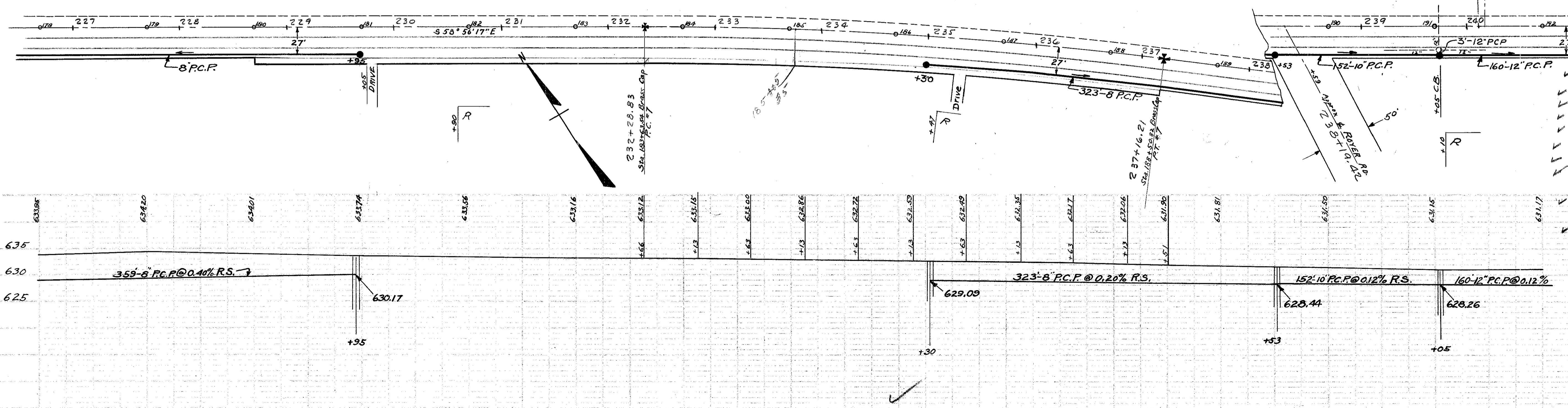
BM #20  
S.W. Cor. Talmadge Rd.  
El. 633.552

Cut 288 Cu.Yds.  
Fill 1 Cu.Yds.  
Fill +15% 1 Cu.Yds.  
Surplus 287 Cu.Yds.

BM #21 Sta 174+00  
R.R. Spk. in S. Side of 4 Elm N. &  
El. 633.212

Cut 299 Cu.yds.  
Fill 6 Cu.yds.  
Fill +15% 9 Cu.yds.  
Surplus 292 Cu.yds.

Curve #7 P.I. = 234+72.94  
 $\Delta = 7^\circ-18'-35''$  Ror 5  
 $D = 1^\circ-30'-06''$   
 $T = 243.95$   
 $R = 3819.26$   
 $L = 487.28$



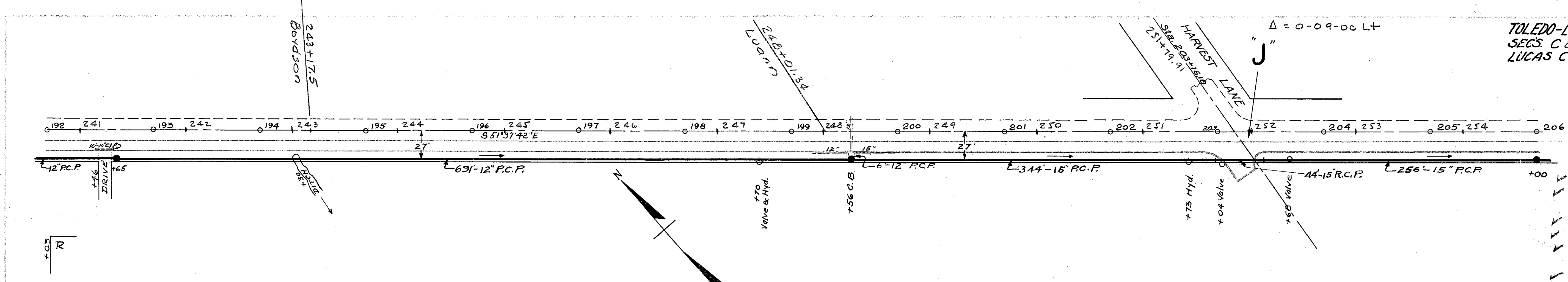
- ✓ Sta 180+95 Const. 1-Sp CB#2 RS
- ✓ Sta 181+05 Drive 1-Cu Yd. Stone
- ✓ Sta 186+30 Const. 1-Sp CB #2 RS
- ✓ Sta 186+30 To 189+53 Lay 323'-8" P.C.P.
- ✓ Sta 186+60 Drive 1-Cu. Yd. Stone
- ✓ Sta 189+53 Const 1-Sp CB#2 RS
- ✓ Sta 189+53 To 191+05 Lay 152'-10" P.C.P.
- ✓ Sta 191+05 Const 1-Sp CB#2 (less Top) Lay 3'-12" P.C.P. To Old CB RS.
- ✓ Sta 191+05 Remove Old CB Top & Set New MH Top To Grade RS
- ✓ Sta 191+05 To 192+65 Lay 160'-12" P.C.P.

BM #22 Sta. 182+38  
R.R. Spk. in N. Side of 4 Oak S. &  
El. 634.598

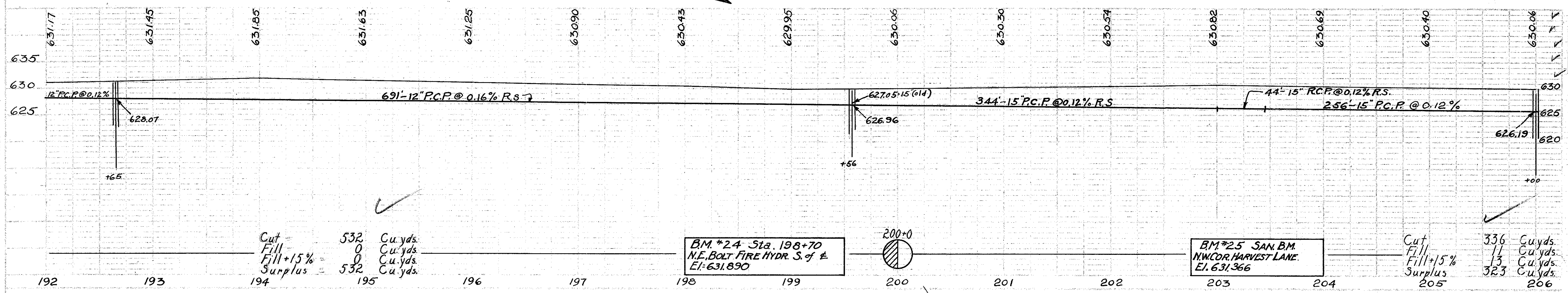
Cut 641 Cu.yds.  
Fill 0 Cu.yds.  
Fill +15% 0 Cu.yds.  
Surplus 641 Cu.yds.

BM #23 Sta. 190+85  
in Pump Island N. &  
El. 631.874

Δ = 0-09-00 Lt



- ✓ Sta 192+46 Drive 1-Cu. Yd. Stone
- ✓ Sta 192+46 Remove 16'-10" Cor I.P. Under Dr. (not to be replaced) RS.
- ✓ Sta 192+65 Const. 1-Sp CB#2 RS.
- ✓ Sta 199+56 Const. 1-Sp CB#2 (less top) Lay 6'-12" PCP to old CB. RS.
- ✓ Sta 199+56 Remove Old CB Top & Set New MH Top To Grade RS.
- ✓ Sta 199+56 To 203+00 Lay 344'-15" PCP.
- ✓ Sta 203+00 To 203+44 Lay 44'-15" RCP.
- ✓ Sta 203+44 To 206+00 Lay 256'-15" PCP.
- ✓ Sta 206+00 Const. 1-Sp CB#2 (less top)
- ✓ Sta. 199+56 - 12" X Over. No Work Required.

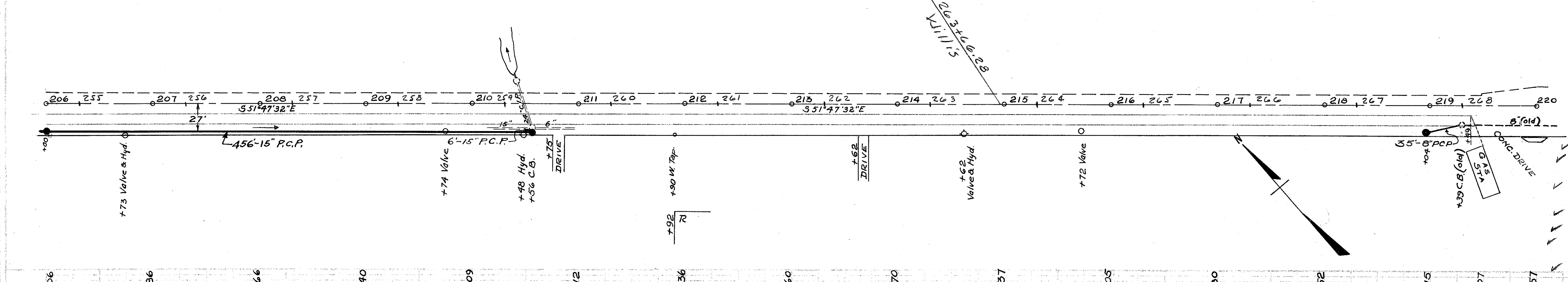


Cut	532	Cu. yds.
Fill	0	Cu. yds.
Fill+15%	0	Cu. yds.
Surplus	532	Cu. yds.

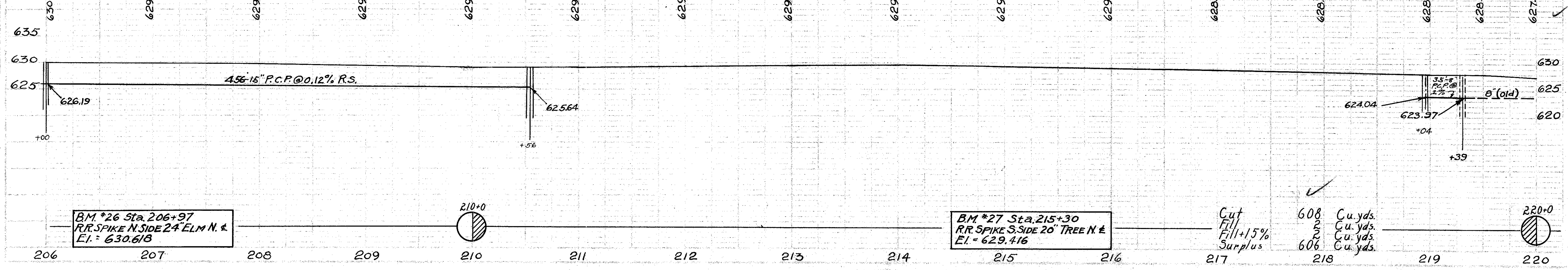
BM \*24 Sta. 198+70  
N.E. BOLT FIRE HYDR. S. of E  
E.I. 631.890

BM \*25 SAN. B.M.  
NW COR. HARVEST LANE.  
E.I. 631.366

Cut	336	Cu. yds.
Fill	11	Cu. yds.
Fill+15%	13	Cu. yds.
Surplus	323	Cu. yds.



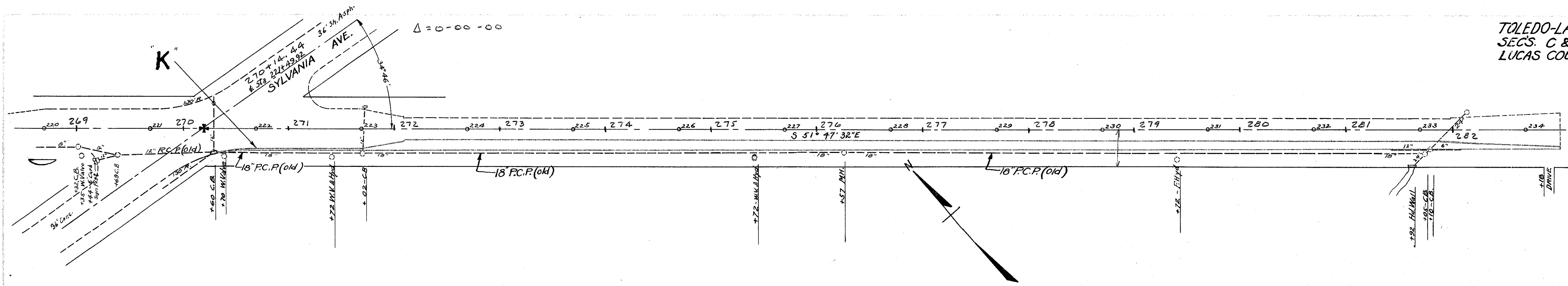
- ✓ Sta 206+00 To 210+56 Lay 456'-15" PCP
- ✓ Sta 210+56 Const. 1-Sp CB#2 (less top) Lay 6'-15" PCP to old CB RS.
- ✓ Sta 210+56 Remove Old CB Top & Set New MH Top To Grade RS.
- ✓ Sta 210+75 Drive 1-Cu. Yd. Stone
- ✓ Sta 213+62 Drive 1-Cu. Yd. Stone
- ✓ Sta 219+04 Const. 1-Sp CB#2 (less top) Lay 35'-8" PCP to old CB RS.
- ✓ Sta 219+39 Remove Old CB Top & Set New MH Top To Grade
- ✓ Sta. 210+56 - 24" CIP. X Over. No Work Required.



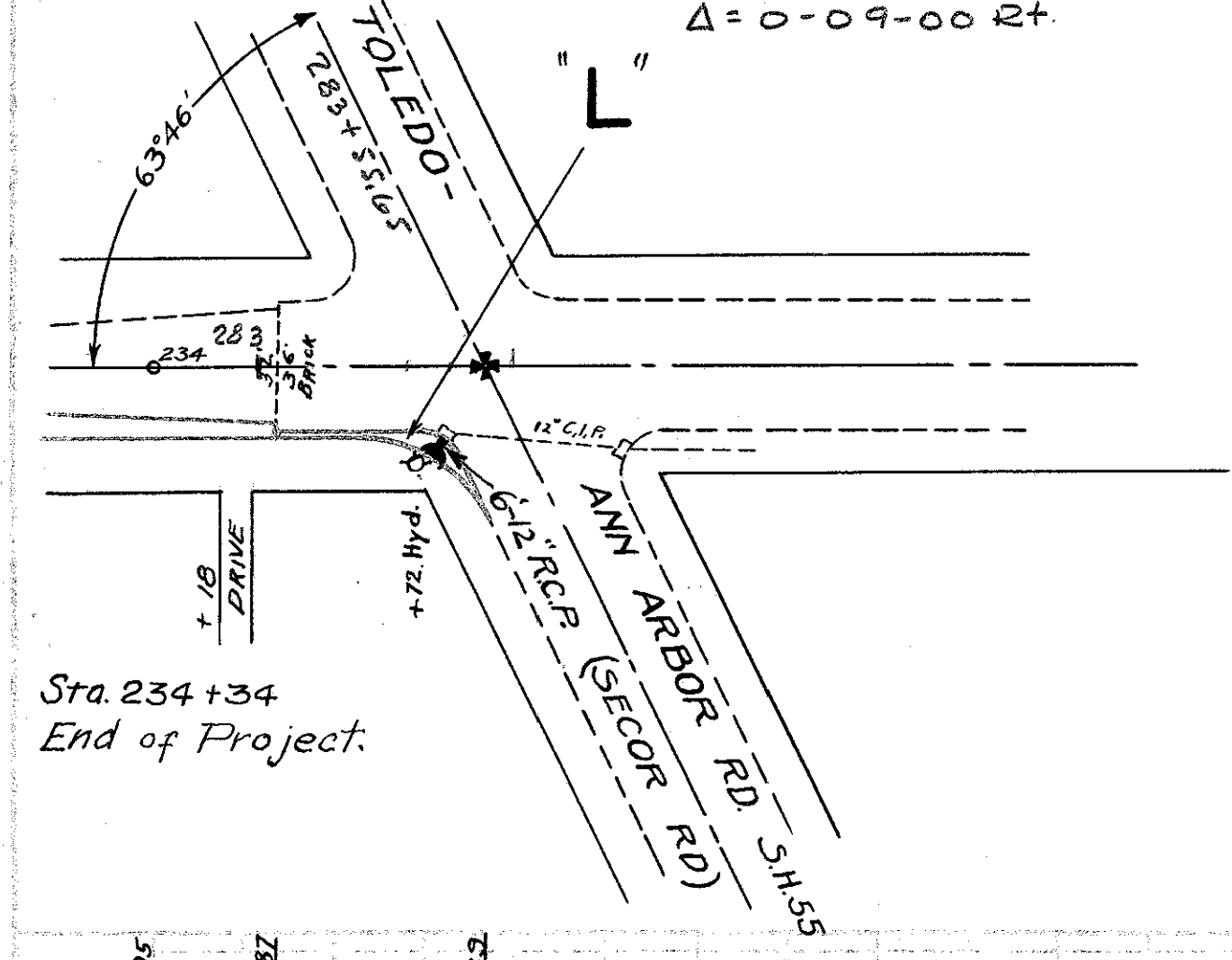
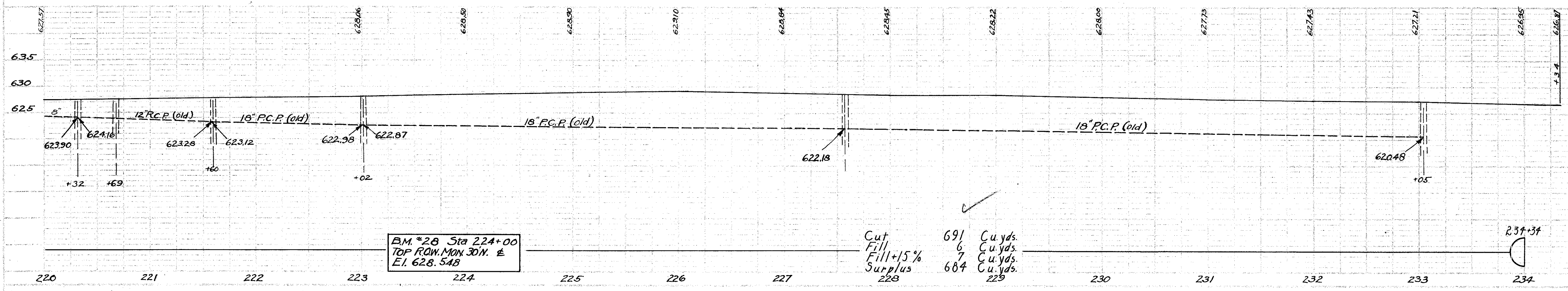
BM \*26 Sta. 206+97  
R.R. SPIKE N. SIDE 24' ELM N. E.  
E.I. 630.618

BM \*27 Sta. 215+30  
R.R. SPIKE S. SIDE 20' TREE N. E.  
E.I. 629.416

Cut	608	Cu. yds.
Fill	2	Cu. yds.
Fill+15%	2	Cu. yds.
Surplus	606	Cu. yds.

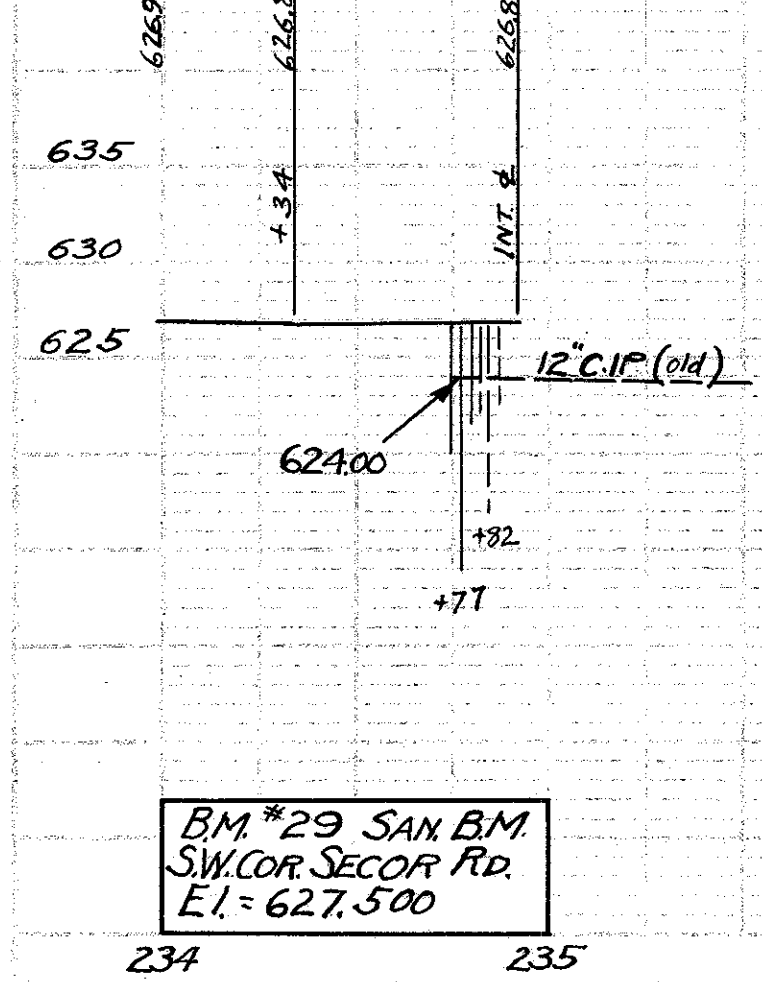


Sta 220+00 To 234+00  
All Exist. Drainage in good Condition No Work Req.



Sta. 234+34  
End of Project.

- ✓ Sta 234+18 Drive 1- Cu yds Stone
- ✓ Sta 234+71 Const 1- SpCB #1 R.S. And Lay 6-12" RCP To Exist CB
- ✓ Sta 234+82 Remove Old CB Top And Set New MH Top To Grade



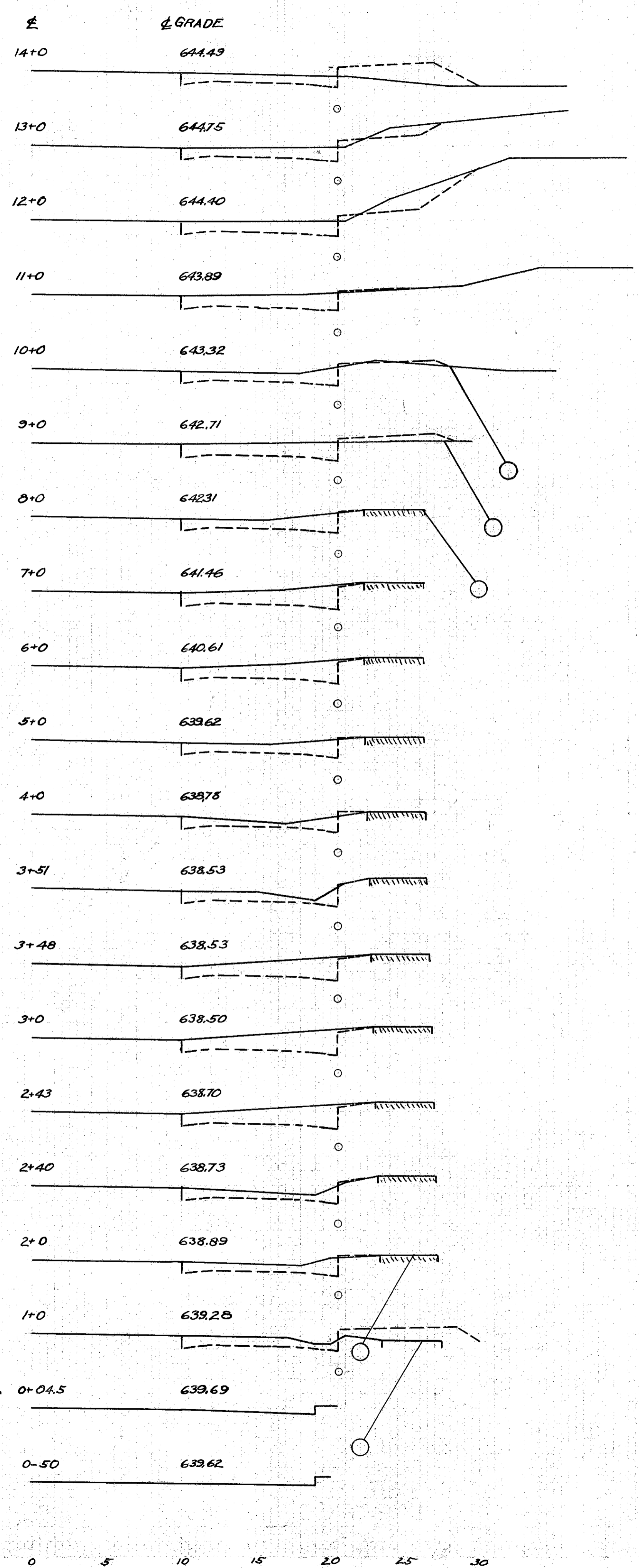
B.M. #29 SAN BM  
SW. COR. SECOR RD.  
EL. = 627.500

END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
3.6	8.8		
		26	17
8.7	0.4		
		40	2
13.2	0.4		
		41	1
8.8	0.0		
		30	4
7.2	2.4		
		30	10
9.2	3.2		
		32	6
8.0	0.0		
		34	0
10.4	0.0		
		38	0
10.0	0.0		
		32	0
7.2	0.0		
		21	1
4.0	0.4		
		7	0
4.0	0.0		
		1	0
10.4	0.0		
		19	0
10.8	0.0		
		23	0
10.8	0.0		
		1	0
5.2	0.4		
		8	0
6.0	0.0		
		22	11
6.0	6.0		
		21	21
		1	0

Cut = 290  
 Fill = 79  
 Fill + 15% = 56  
 Surplus = 234

Flare Sta. 0+00

Compute from Sta. 0+04.5

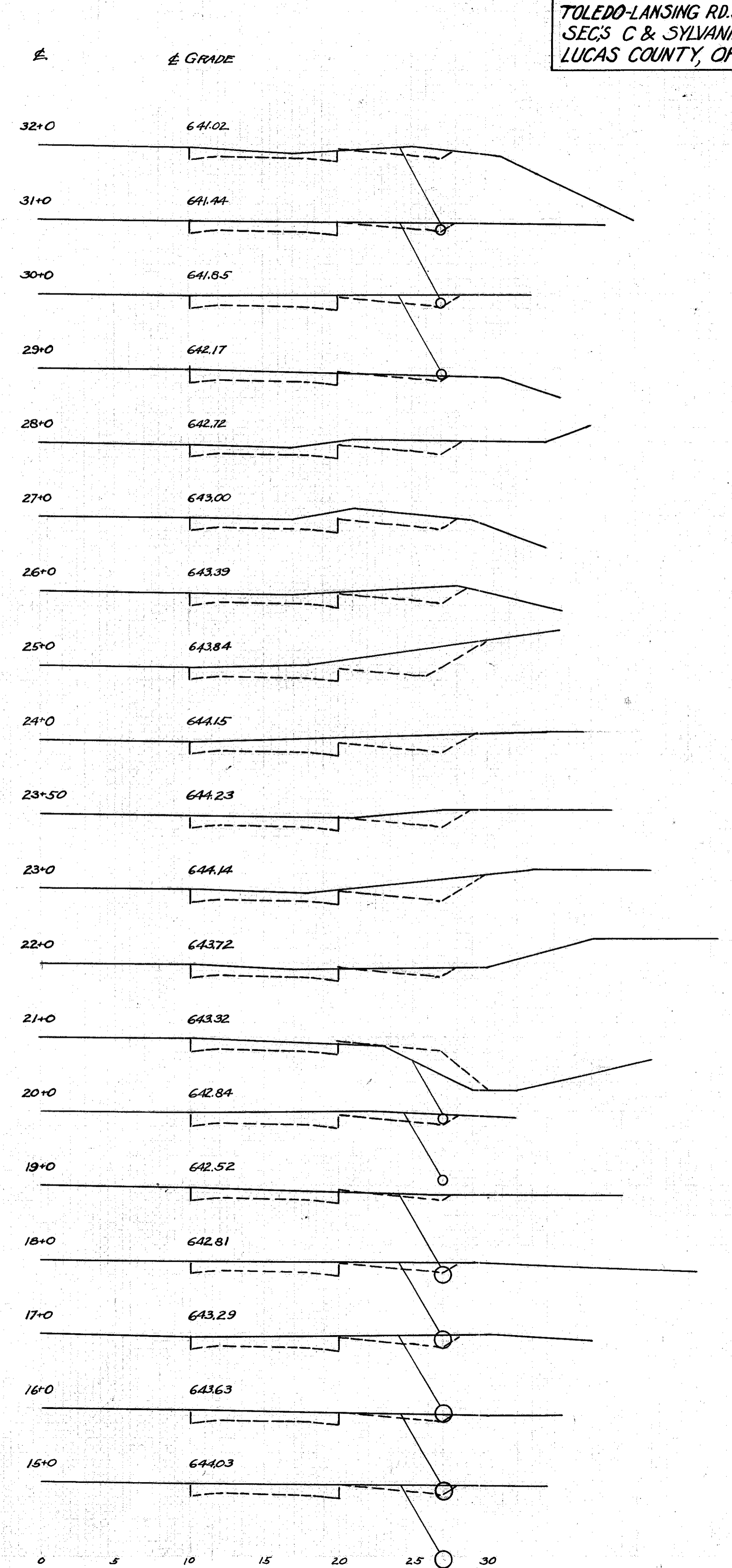


END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
6.8	0.0		
		29	0
8.8	0.0		
		36	0
10.4	0.0		
		34	0
8.0	0.0		
		34	0
10.4	0.0		
		42	0
12.0	0.0		
		44	0
12.0	0.0		
		55	0
17.6	0.0		
		56	0
12.8	0.0		
		21	0
10.0	0.0		
		21	0
12.8	0.0		
		36	0
6.8	0.0		
		23	8
5.6	4.4		
		31	8
11.2	0.0		
		34	0
7.2	0.0		
		30	0
9.2	0.0		
		36	0
10.0	0.0		
		33	0
7.6	0.0		
		30	0
8.8	0.0		
		27	16
5.6	8.8		
		18	0

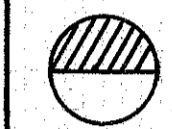
Cut = 397  
 Fill = 16  
 Fill + 15% = 18  
 Surplus = 379

Cut = 345  
 Fill = 40  
 Fill + 15% = 46  
 Surplus = 299

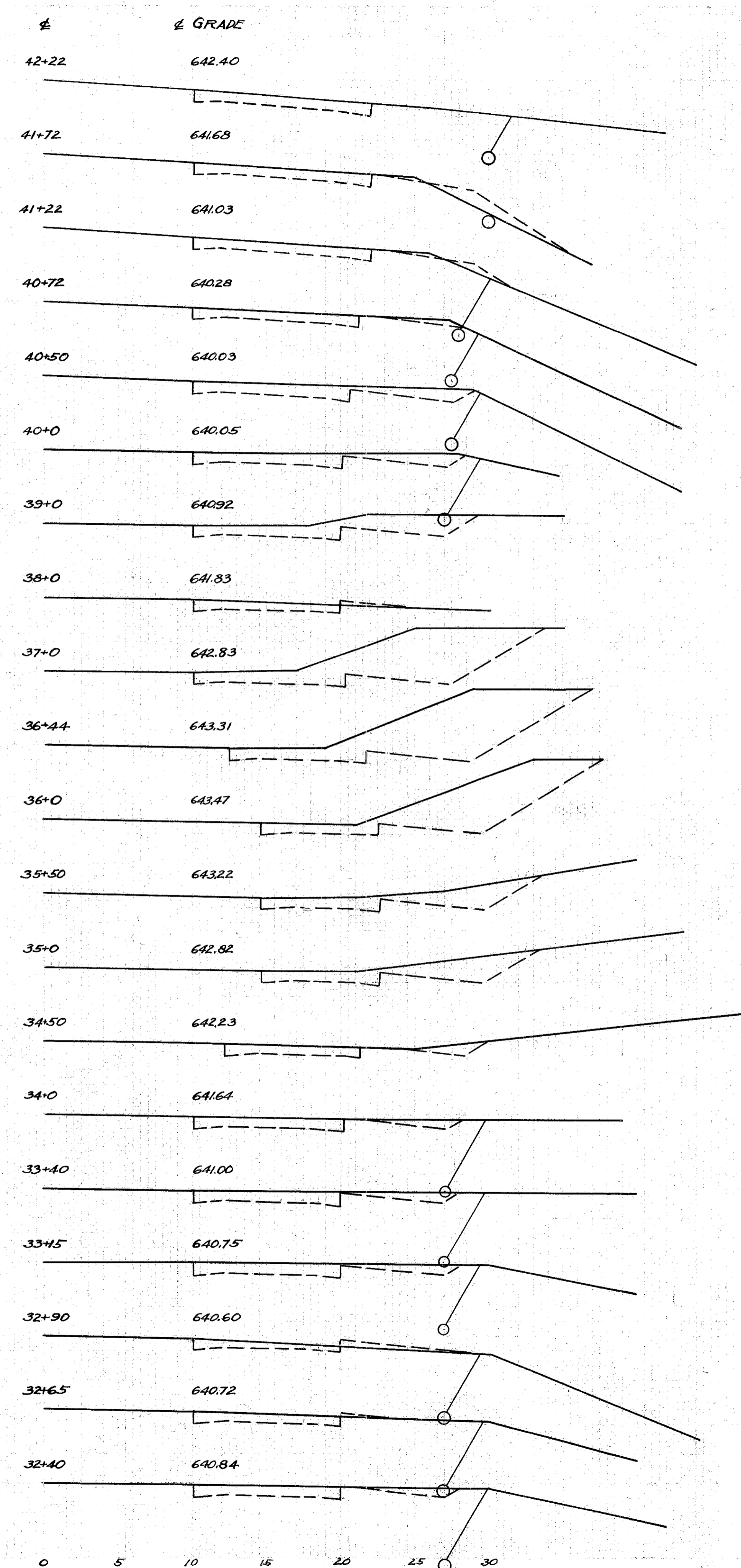
Harroun Rd. Sta. 14+56



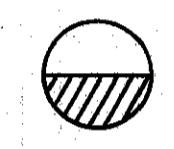
END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
9.6	0.0	17	5
8.8	4.8	17	7
9.2	2.0	19	4
11.2	2.0	9	1
12.0	0.0	22	0
11.6	0.0	53	0
16.8	0.0	42	1
5.6	0.4	90	1
42.8	0.0	96	0
50.0	0.0	71	0
37.6	0.0	50	0
16.0	0.0	31	0
16.8	0.0	21	0
5.6	0.0	15	0
10.0	0.0	23	0
10.8	0.0	11	0
12.0	0.0	8	1
5.2	2.0	5	1
5.6	0.4	8	0
10.4	0.0	13	0
6.8	0.0		



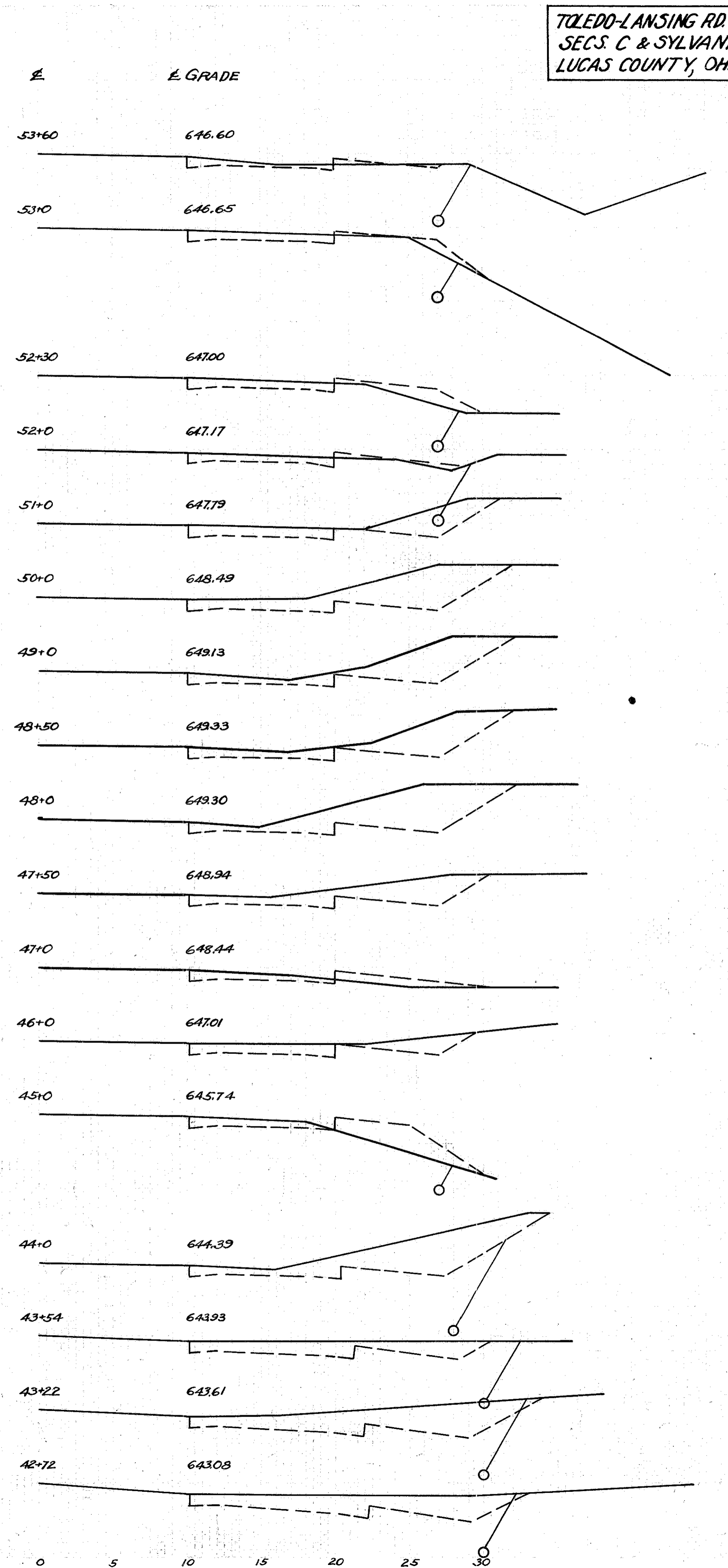
Cut = 602 Cu. Yds. ✓  
 Fill = 4 Cu. Yds. ✓  
 Fill + 15% = 5 Cu. Yds. ✓  
 Surplus = 597 Cu. Yds. ✓



END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
4.4	1.6	11	5
5.6	3.2	15	11
5.6	5.6	5	4
4.0	1.4	36	3
15.6	0.0	81	0
28.0	0.0	93	0
22.0	0.0	40	0
20.4	0.0	49	0
32.4	0.0	47	0
18.4	0.0	20	4
3.2	4.0	30	7
12.8	0.0	33	22
5.2	12.0	69	22
32.0	0.0	41	0
16.0	0.0	27	0
29.2	0.0	51	0
25.6	0.0	33	0
9.6	0.0		

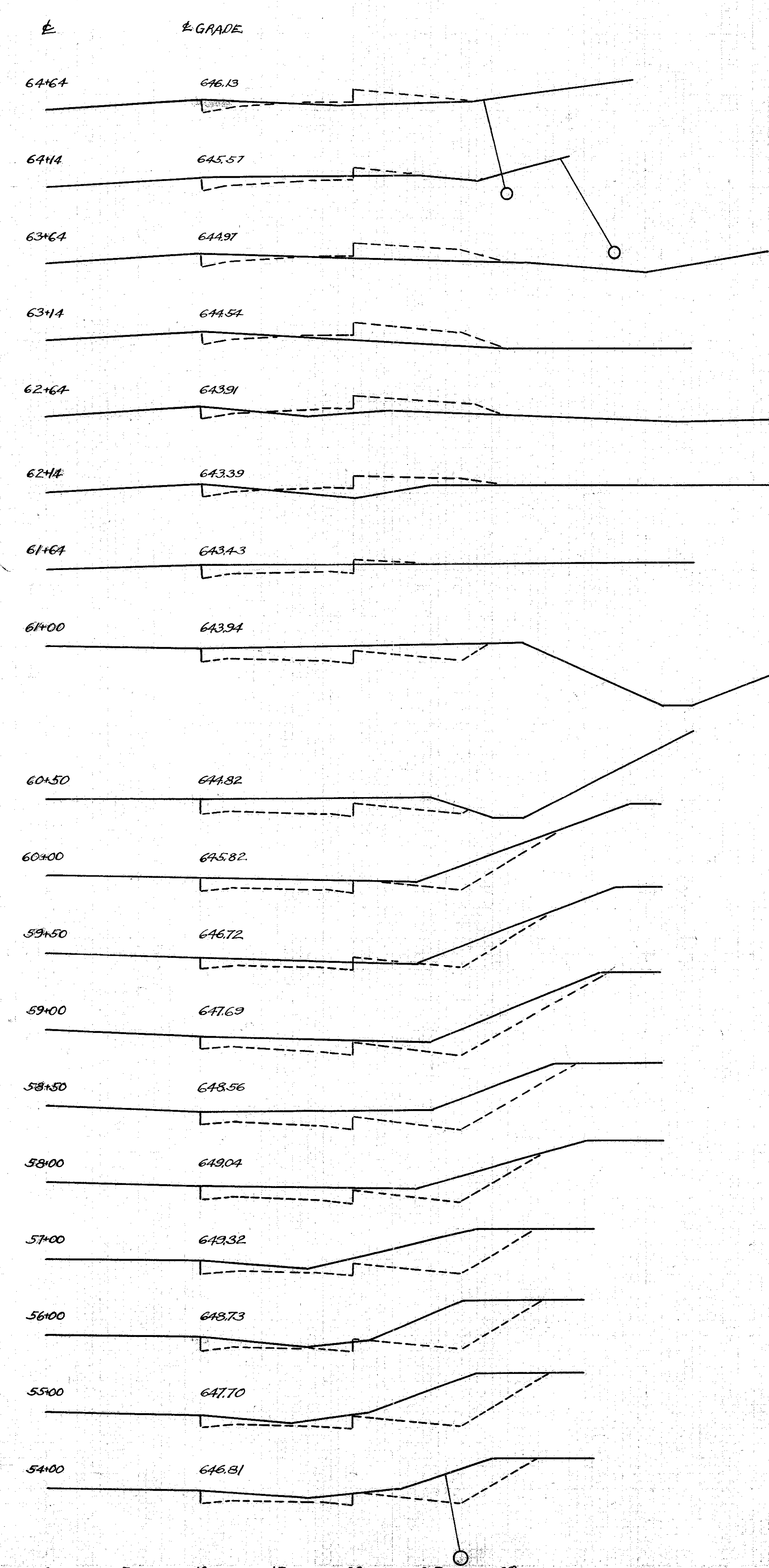


Cut = 617 Cu. Yds. ✓  
 Fill = 72 Cu. Yds. ✓  
 Fill + 15% = 83 Cu. Yds. ✓  
 Surplus = 534 Cu. Yds. ✓



END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
1.6	5.2		
		5	7
4.0	2.0		
		7	7
2.8	5.6		
		5	13
2.0	8.0		
		3	17
1.2	10.0		
		2	18
1.2	9.2		
		7	10
5.6	1.2		
		23	1
14.0	0.0		
		26	0
14.0	0.0		
		25	0
12.4	0.0		
		22	1
11.6	0.4		
		32	1
22.8	0.0		
		44	0
24.0	0.0		
		37	0
16.0	0.0		
		74	0
24.0	0.0		
		85	0
22.0	0.0		
		87	0
25.2	0.0		
		79	0
17.2	0.0		
		16	1
4.4	1.6		

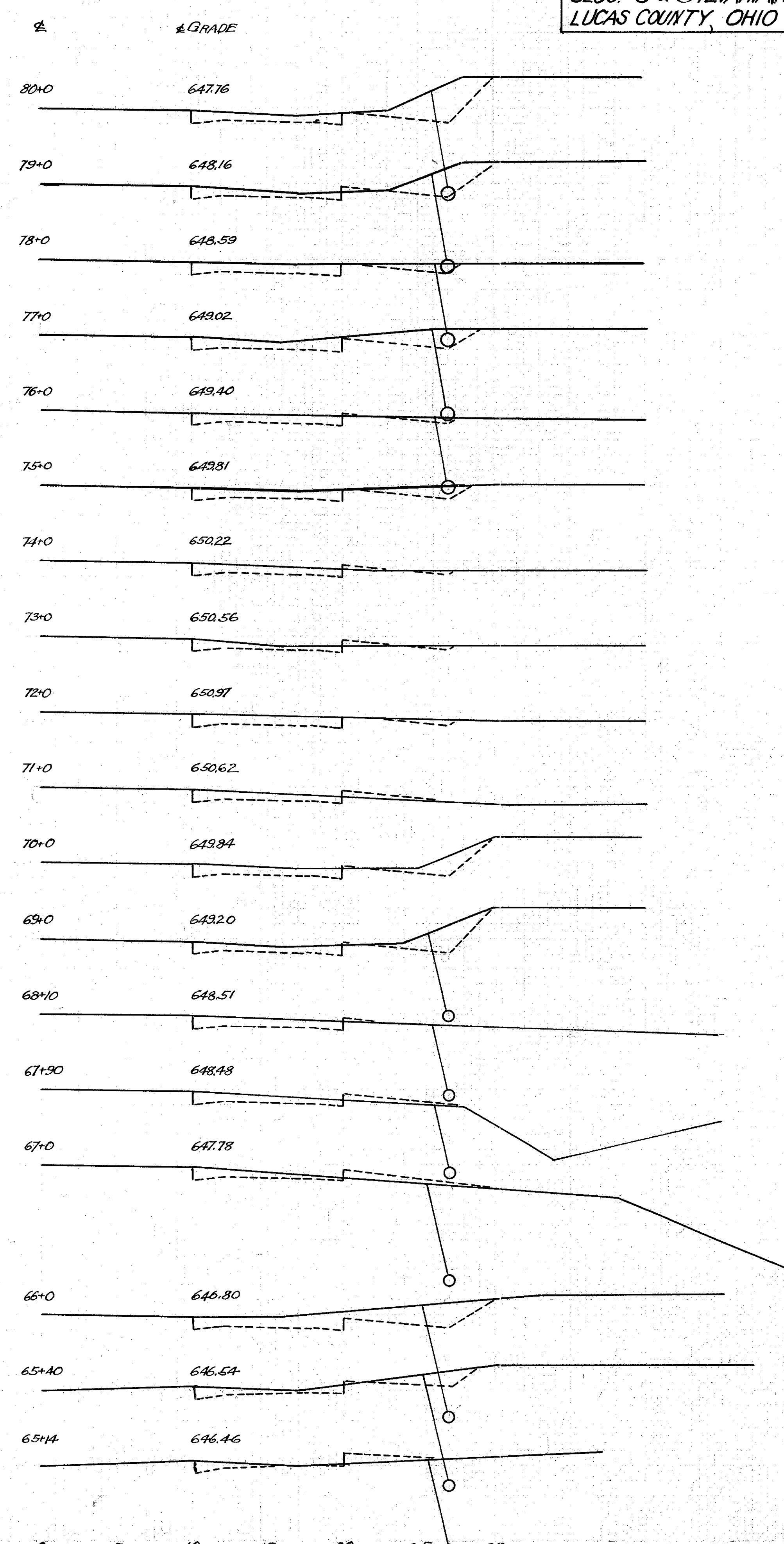
Cut = 624  
 Fill = 26  
 Fill + 15% = 30  
 Surplus = 594  
 Cu. yds. ✓  
 Cu. yds. ✓  
 Cu. yds. ✓  
 Cu. yds. ✓



END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
14.4	0.0		
		47	1
11.2	0.6		
		37	2
8.8	0.2		
		39	0
12.0	0.0		
		33	0
5.6	0.0		
		28	0
9.6	0.0		
		27	
4.8	0.4		
		16	4
3.6	1.6		
		20	3
7.2	0.0		
		24	3
5.6	1.6		
		31	3
11.2	0.0		
		44	0
12.8	0.0		
		31	0
5.6	0.0		
		4	1
5.2	2.0		
		14	7
3.2	2.4		
		37	4
16.8	0.0		
		28	0
8.0	0.0		
		5	2
2.4	3.2		
		4	8
1.6	5.2		

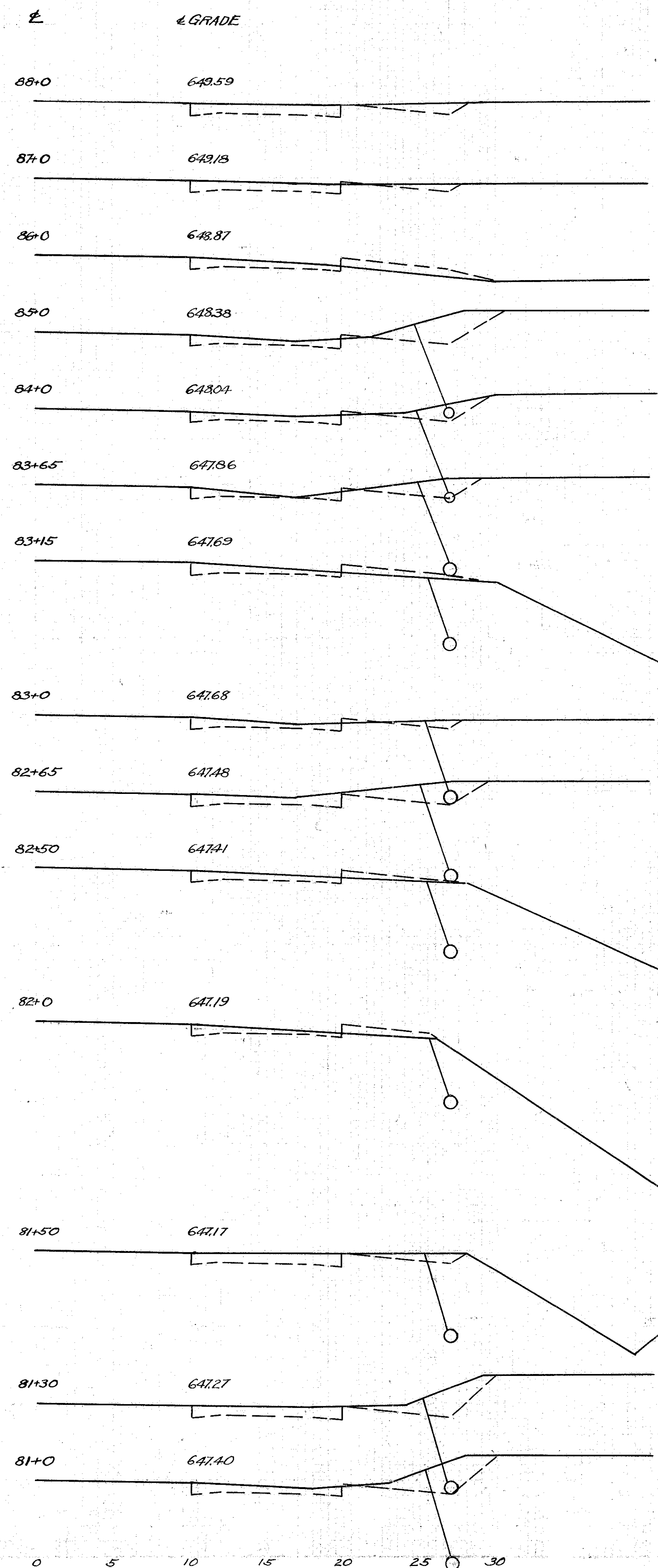
Cut = 302  
 Fill = 16  
 Fill + 15% = 18  
 Surplus = 284  
 Cu. yds. ✓  
 Cu. yds. ✓  
 Cu. yds. ✓  
 Cu. yds. ✓

Cut = 270  
 Fill = 95  
 Fill + 15% = 109  
 Surplus = 161  
 Cu. yds. ✓  
 Cu. yds. ✓  
 Cu. yds. ✓  
 Cu. yds. ✓



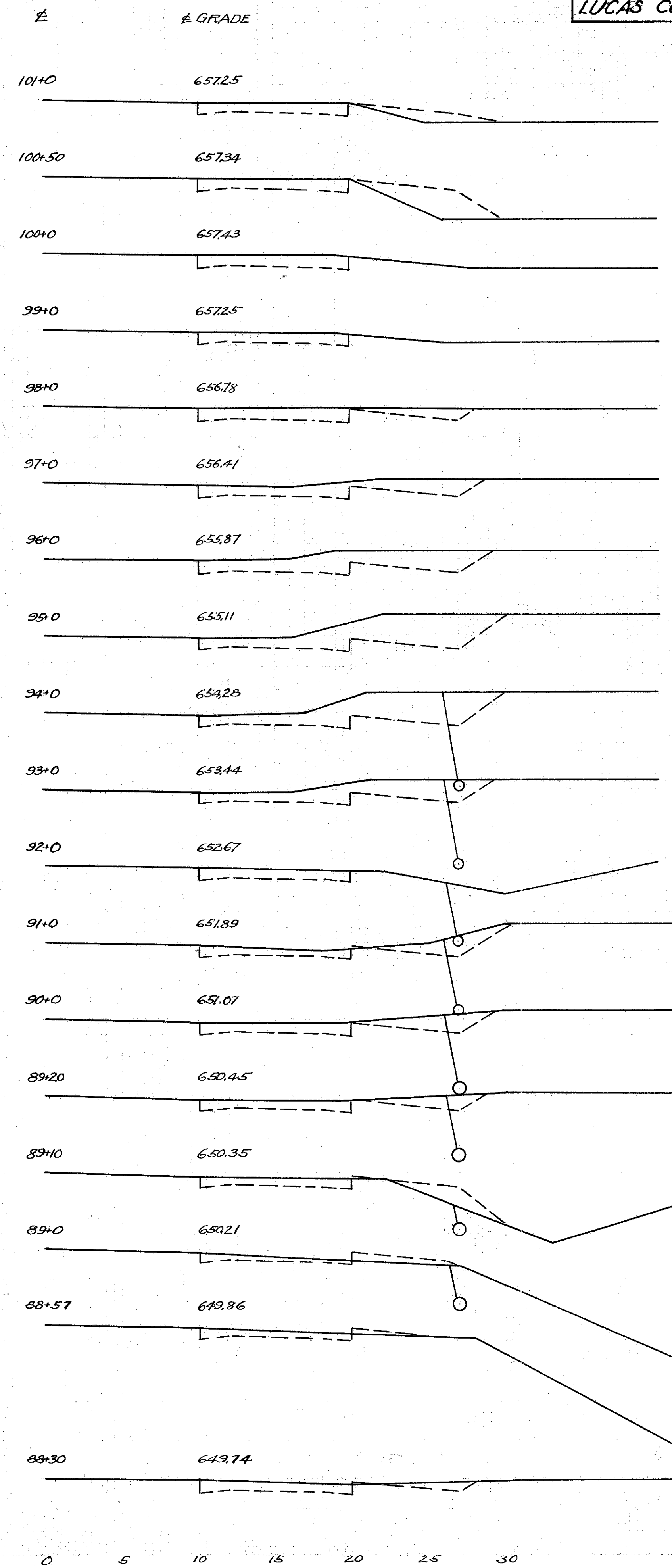
END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
10.0	0.0		
		32	0
7.2	0.0		
		21	9
7.0	4.8		
		31	10
12.8	0.4		
		39	1
8.4	0.0		
		12	0
8.8	0.0		
		12	3
7.0	3.2		
		3	1
5.6	0.4		
		13	1
14.8	0.0		
		5	1
4.0	2.0		
		7	4
3.2	2.0		
		14	2
11.2	0.0		
		9	0
14.0	0.0		
		16	0
15.2	0.0		
		55	0
14.4	0.0		

Cut = 334 Cu. yds. ✓  
Fill = 39 Cu. yds. ✓  
Fill + 15% = 45 Cu. yds. ✓  
Surplus = 289 Cu. yds. ✓



END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
6.8	7.0		
		13	11
6.8	8.0		
		13	8
6.8	0.0		
		24	0
6.0	0.0		
		30	0
10.4	0.0		
		44	0
13.4	0.0		
		59	0
18.4	0.0		
		80	0
24.8	0.0		
		91	0
27.4	0.0		
		78	0
17.6	0.0		
		45	
6.8	0.0		
		33	0
10.8	0.0		
		43	0
12.4	0.0		
		37	0
12.4	0.0		
		3	1
5.2	5.6		
		2	2
2.8	3.2		
		6	3
4.8	1.2		
		7	1
8.4	0.0		
		10	0
10.0	0.0		

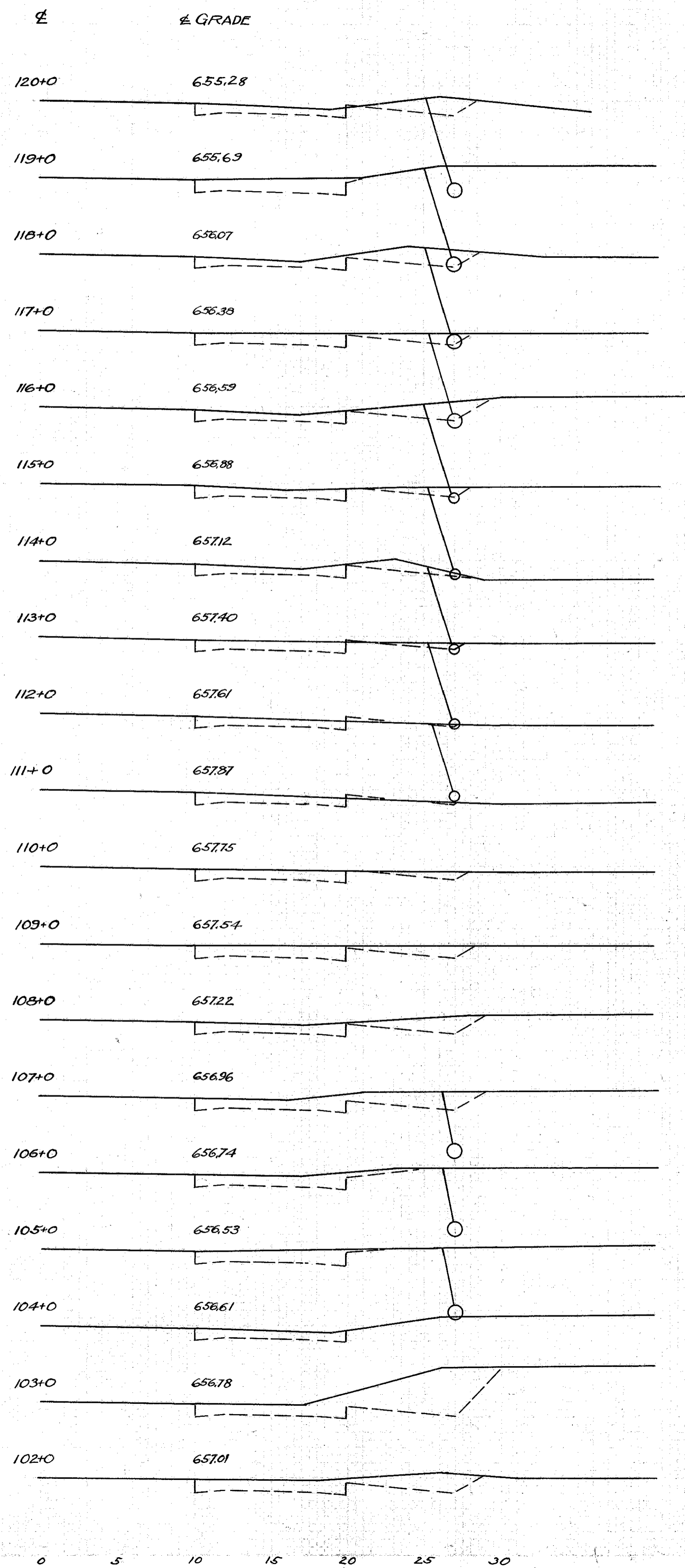
Cut = 527 Cu. yds. ✓  
Fill = 0 Cu. yds. ✓  
Fill + 15% = 0 Cu. yds. ✓  
Surplus = 527 Cu. yds. ✓



END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
8.0	0.0		
		30	0
8.4	0.0		
		39	0
12.8	0.0		
		44	0
11.2	0.0		
		42	0
11.6	0.0		
		39	0
9.6	0.0		
		33	0
8.4	0.0		
		28	0
6.8	0.0		
		21	1
7.4	0.4		
		19	2
6.0	0.4		
		28	1
9.2	0.0		
		39	0
11.6	0.0		
		44	0
12.4	0.0		
		53	0
16.0	0.0		
		46	0
8.8	0.0		
		33	0
8.8	0.0		
		29	0
6.8	0.0		
		66	0
28.8	0.0		
		83	0
16.0	0.0		
		42	7
6.8	7.0		

Cut = 323  
Fill = 4  
Fill + 15% = 5  
Surplus = 318  
Cu. yds. ↓  
Cu. yds. ↓  
Cu. yds. ↓  
Cu. yds. ↓

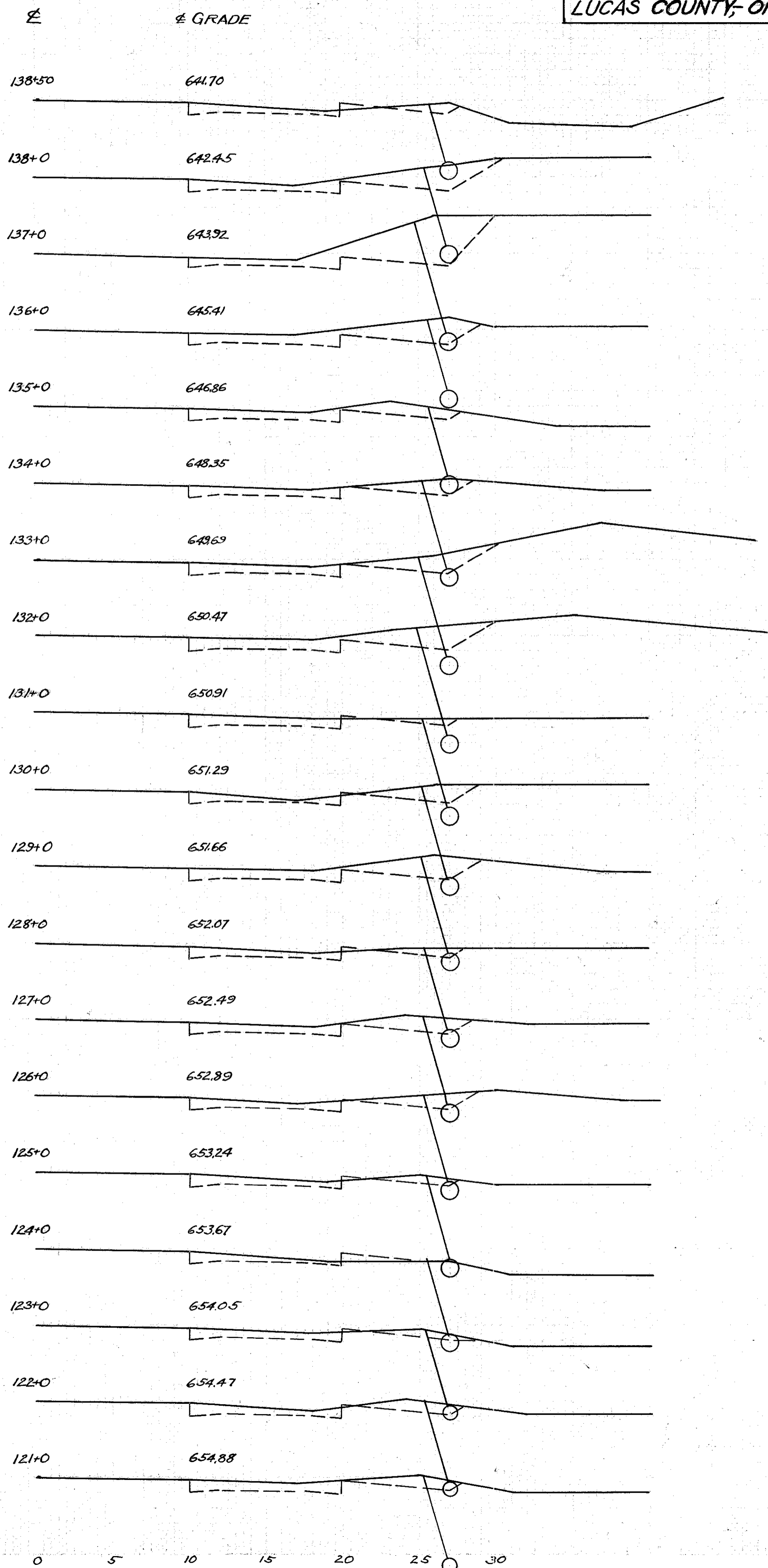
Cut = 76  
Fill = 26  
Fill + 15% = 30  
Surplus = 431  
Cu. yds. ↓  
Cu. yds. ↓  
Cu. yds. ↓  
Cu. yds. ↓



END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
9.2	0.8		
		22	1
14.0	0.0		
		73	0
25.6	0.0		
		79	0
16.8	0.0		
		51	0
10.8	0.0		
		38	0
9.6	0.0		
		39	0
11.6	0.0		
		51	0
16.0	0.0		
		42	1
6.8	0.4		
		26	1
7.2	0.0		
		39	0
14.0	0.0		
		46	1
10.8	0.4		
		40	1
10.8	0.0		
		39	0
10.7	0.0		
		40	1
1.2	0.4		
		21	5
4.0	2.4		
		23	4
8.4	0.0		
		32	0
8.8	0.0		
		35	0
10.0	0.0		
		33	0
8.0	0.0		

Cut = 471  
Fill = 7  
Fill + 15% = 8  
Surplus = 463  
Cu. yds. ↓  
Cu. yds. ↓  
Cu. yds. ↓  
Cu. yds. ↓

Cut = 348  
Fill = 12  
Fill + 15% = 14  
Surplus = 334  
Cu. yds. ↓  
Cu. yds. ↓  
Cu. yds. ↓  
Cu. yds. ↓

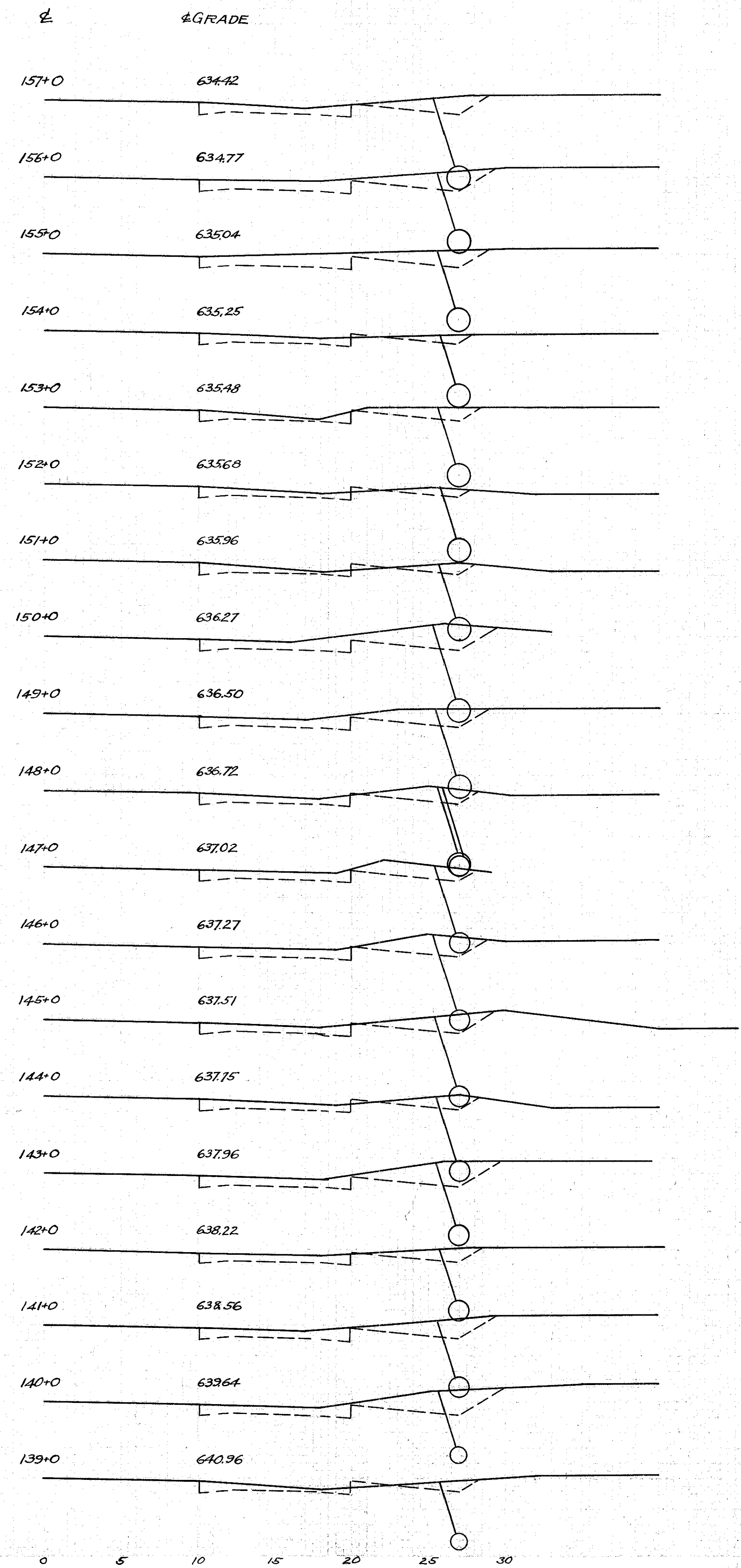
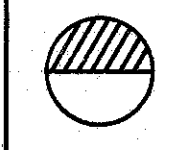




END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
10.0	0.0		
		43	0
13.2	0.0		
		48	0
12.8	0.0		
		41	1
9.2	0.4		
		33	1
8.8	0.0		
		27	1
6.0	0.4		
		23	2
6.4	0.4		
		42	1
16.0	0.0		
		54	0
13.2	0.0		
		44	0
10.4	0.0		
		41	0
11.6	0.0		
		43	0
11.6	0.0		
		39	0
9.2	0.0		
		32	1
8.0	0.4		
		44	1
16.0	0.0		
		45	0
8.4	0.0		
		40	0
13.2	0.0		
		53	0
15.6	0.0		
		37	2
4.4	0.8		
		13	2
9.2	0.8		

Cut = 342  
 Fill = 7  
 Fill + 15% = 8  
 Surplus = 334

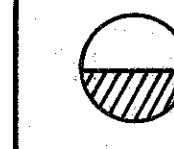
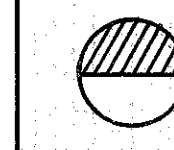
Cut = 495  
 Fill = 2  
 Fill + 15% = 433  
 Surplus = 433



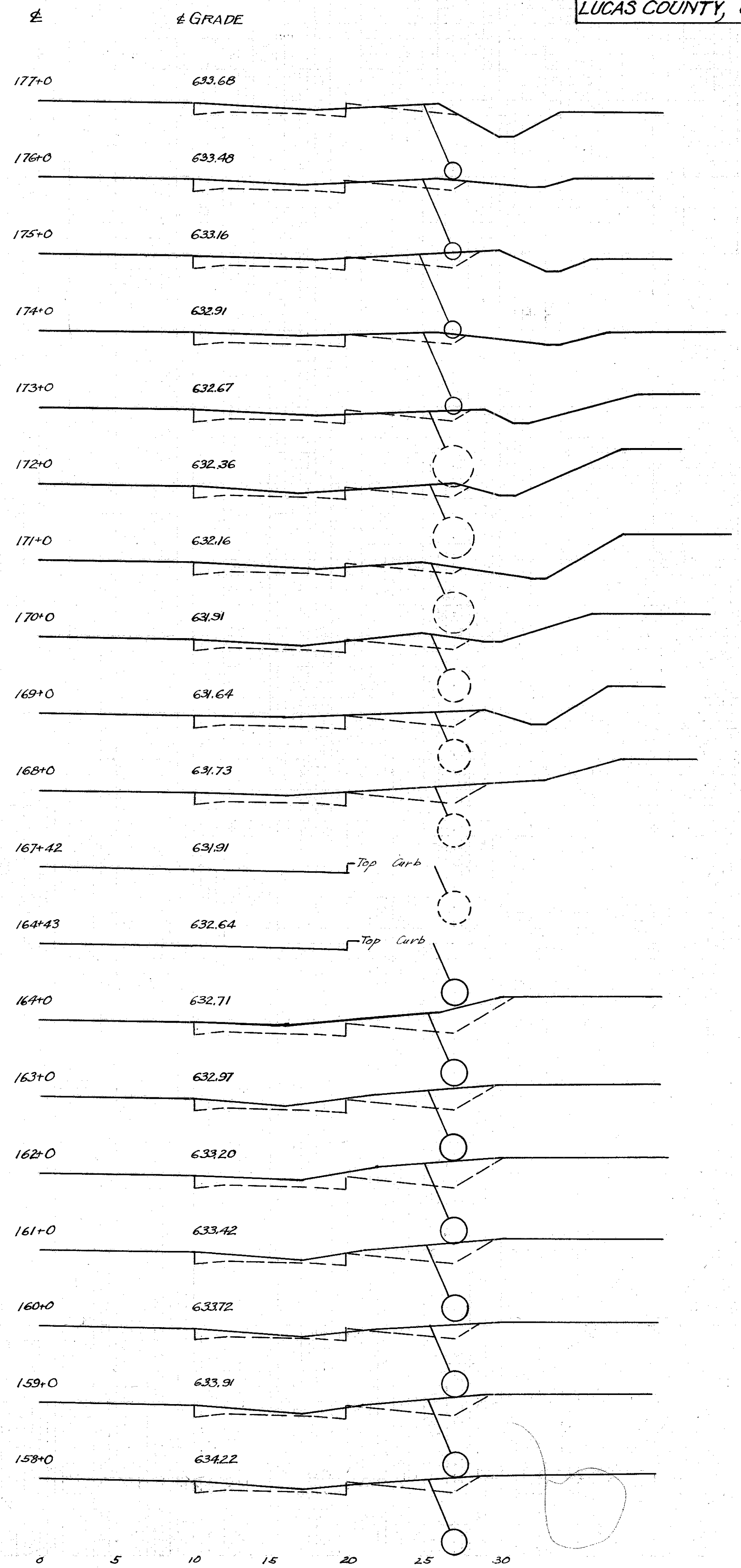
END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
6.4	0.4		
		27	1
8.4	0.0		
		39	0
12.8	0.0		
		42	0
9.6	0.0		
		33	1
8.0	0.4		
		27	1
6.4	0.0		
		25	1
7.2	0.2		
		28	0
8.0	0.0		
		36	0
11.2	0.0		
		39	0
9.6	0.0		
		10	0
16.4	0.0		
		53	0
12.0	0.0		
		53	0
16.8	0.0		
		50	0
10.4	0.0		
		32	1
6.8	0.2		
		26	0
7.2	0.0		
		27	1
7.2	0.2		
		32	0
10.0	0.0		

Cut = 299  
 Fill = 6  
 Fill + 15% = 7  
 Surplus = 292

Cut = 288  
 Fill = 2  
 Fill + 15% = 287  
 Surplus = 287



Talmadge Rd

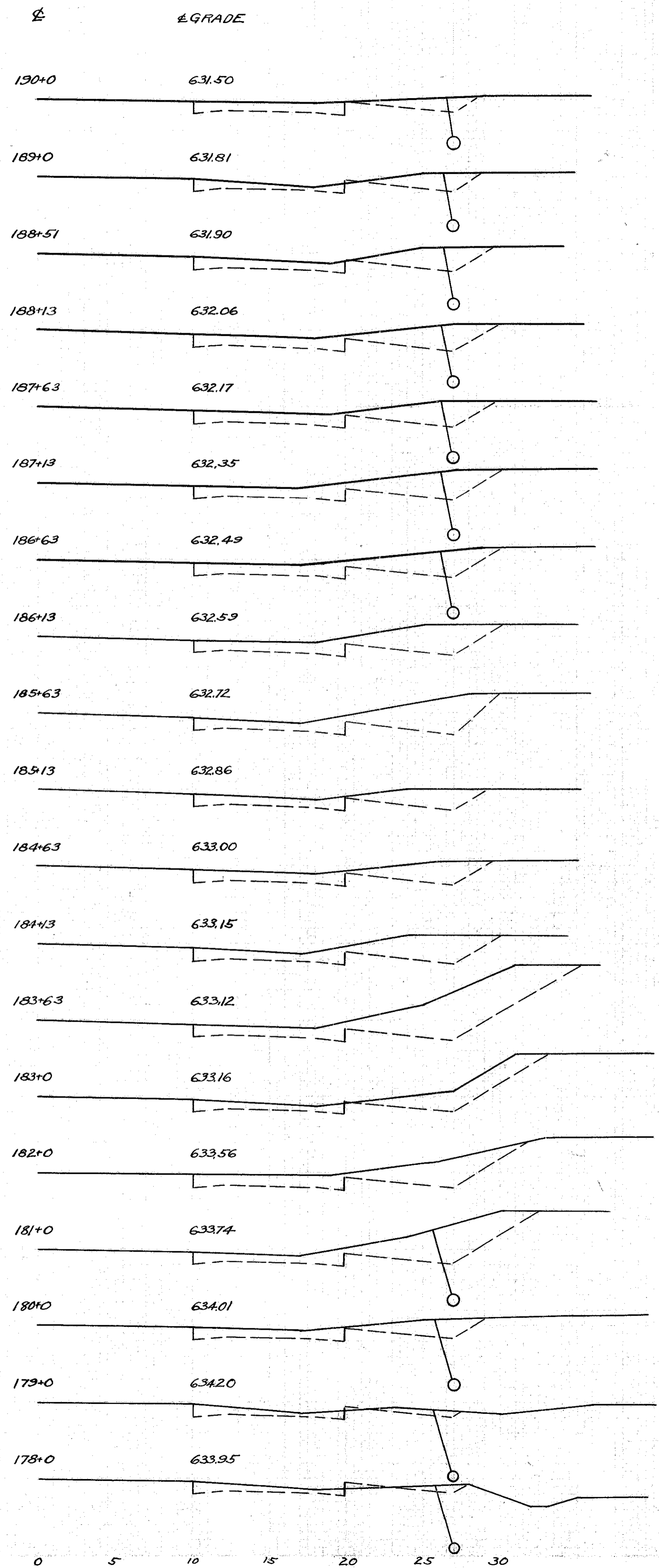


Top Curb

Top Curb

END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
10.0	0.0		
		37	0
10.0	0.0		
		21	0
13.2	0.0		
		21	0
16.0	0.0		
		30	0
16.0	0.0		
		32	0
18.0	0.0		
		32	0
16.8	0.0		
		33	0
19.2	0.0		
		37	0
20.4	0.0		
		32	0
13.6	0.0		
		26	0
14.4	0.0		
		30	0
18.4	0.0		
		49	0
34.8	0.0		
		57	0
14.4	0.0		
		61	0
18.4	0.0		
		77	0
23.2	0.0		
		66	0
12.4	0.0		
		33	0
5.6	0.2		
		22	1
6.0	0.2		
		23	1
6.4	0.4		

Cut = 64  
 Fill = 0  
 Fill + 15% = 0  
 Surplus = 64  
 Cu. yds. ↓  
 Cu. yds. ↓  
 Cu. yds. ↓  
 Cu. yds. ↓

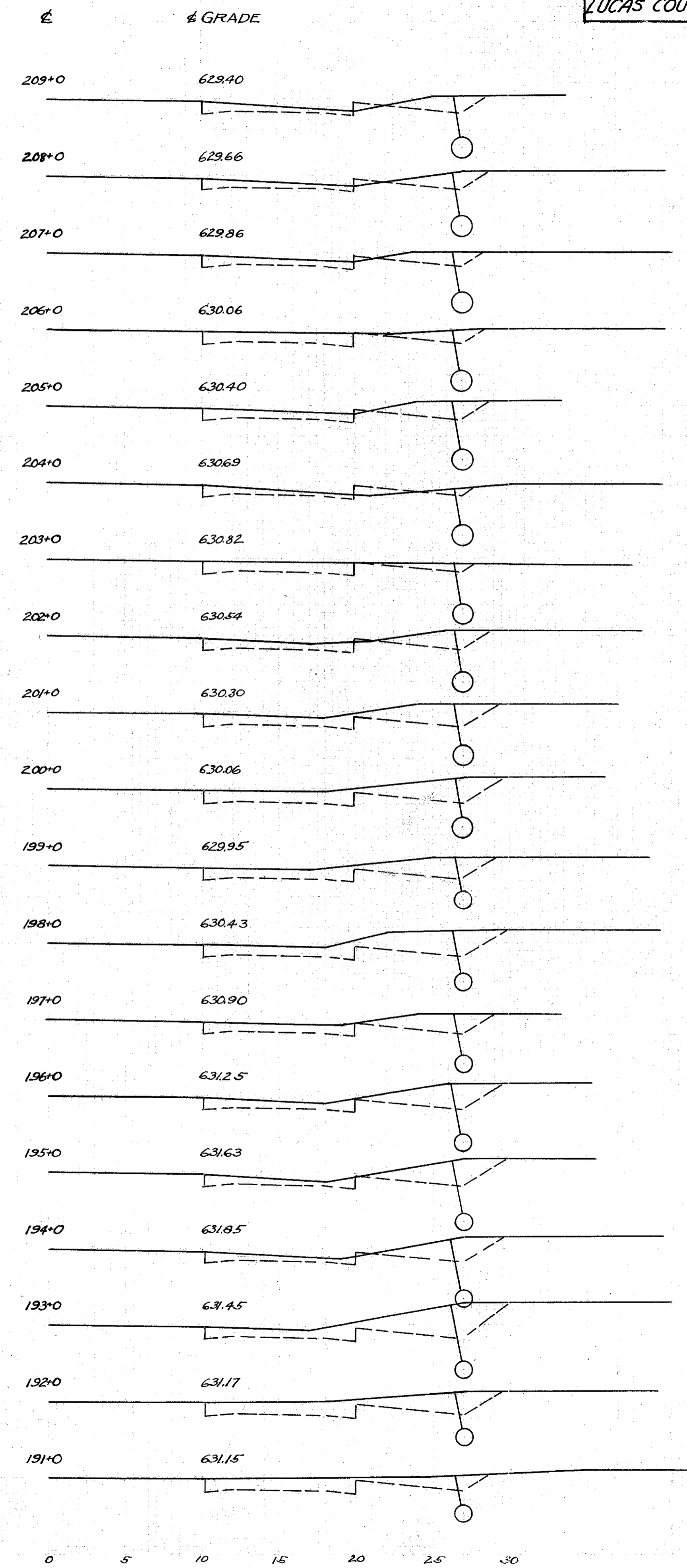


END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
8.8	0.8		
		33	2
8.8	0.4		
		35	2
10.0	0.4		
		35	1
8.8	0.0		
		36	0
10.8	0.2		
		27	3
4.0	1.6		
		22	3
7.6	0.0		
		33	0
10.0	0.0		
		14	0
		44	0
13.6	0.0		
		57	0
17.2	0.0		
		58	0
14.0	0.0		
		59	0
17.6	0.0		
		56	0
12.8	0.0		
		50	0
14.0	0.0		
		52	0
14.0	0.0		
		44	0
9.6	0.2		
		53	0
19.2	0.0		
		65	0
16.0	0.0		
		53	0
12.8	0.0		
		42	0
10.0	0.0		

Cut = 336  
 Fill = 1  
 Fill + 15% = 1.15  
 Surplus = 323  
 Cu. yds. ↓  
 Cu. yds. ↓  
 Cu. yds. ↓

School Dr. 202+73

Cut = 532  
 Fill = 0  
 Fill + 15% = 0  
 Surplus = 532  
 Cu. yds. ↓  
 Cu. yds. ↓  
 Cu. yds. ↓



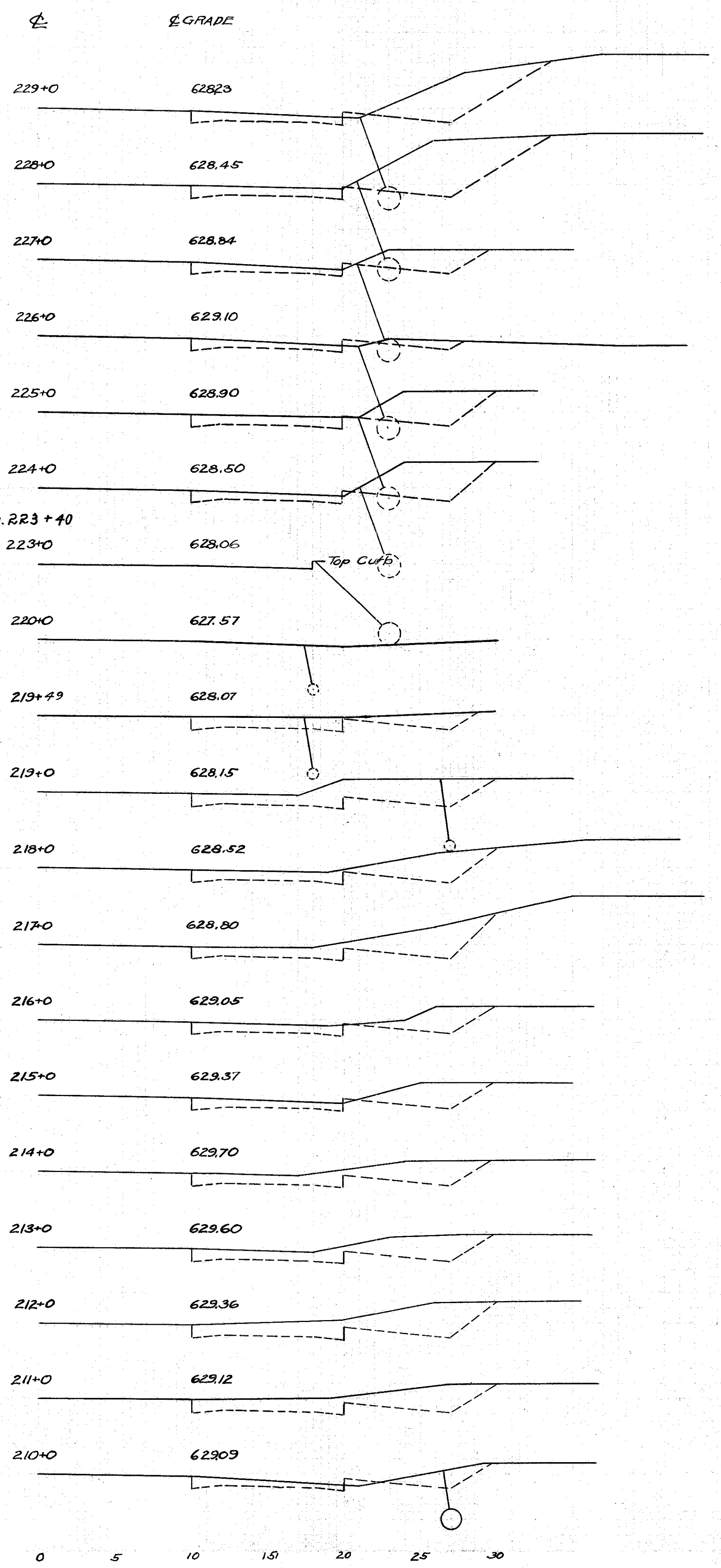
END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
23.2	0.2	103	0
32.4	0.0	85	0
13.6	0.2	36	2
6.0	0.8	46	2
18.8	0.0	75	0
21.6	0.0	78	0
19	0	19	0
12.8	0.0	31	0
22.0	0.0	74	0
18.0	0.0	67	0
18.4	0.0	60	0
14.0	0.0	53	1
14.4	0.2	57	0
16.4	0.0	64	0
18.0	0.0	76	0
23.2	0.0	76	0
18.0	0.0	50	1
8.8	0.6		

Cut = 691 Cu. yds.  
 Fill = 29 Cu. yds.  
 Fill + 15% = 33 Cu. yds.  
 Surplus = 658 Cu. yds.

Cut = 608 Cu. yds.  
 Fill = 22 Cu. yds.  
 Fill + 15% = 25 Cu. yds.  
 Surplus = 583 Cu. yds.

Begin Widening at Sta. 223+40  
 Flare Sta. 221+60

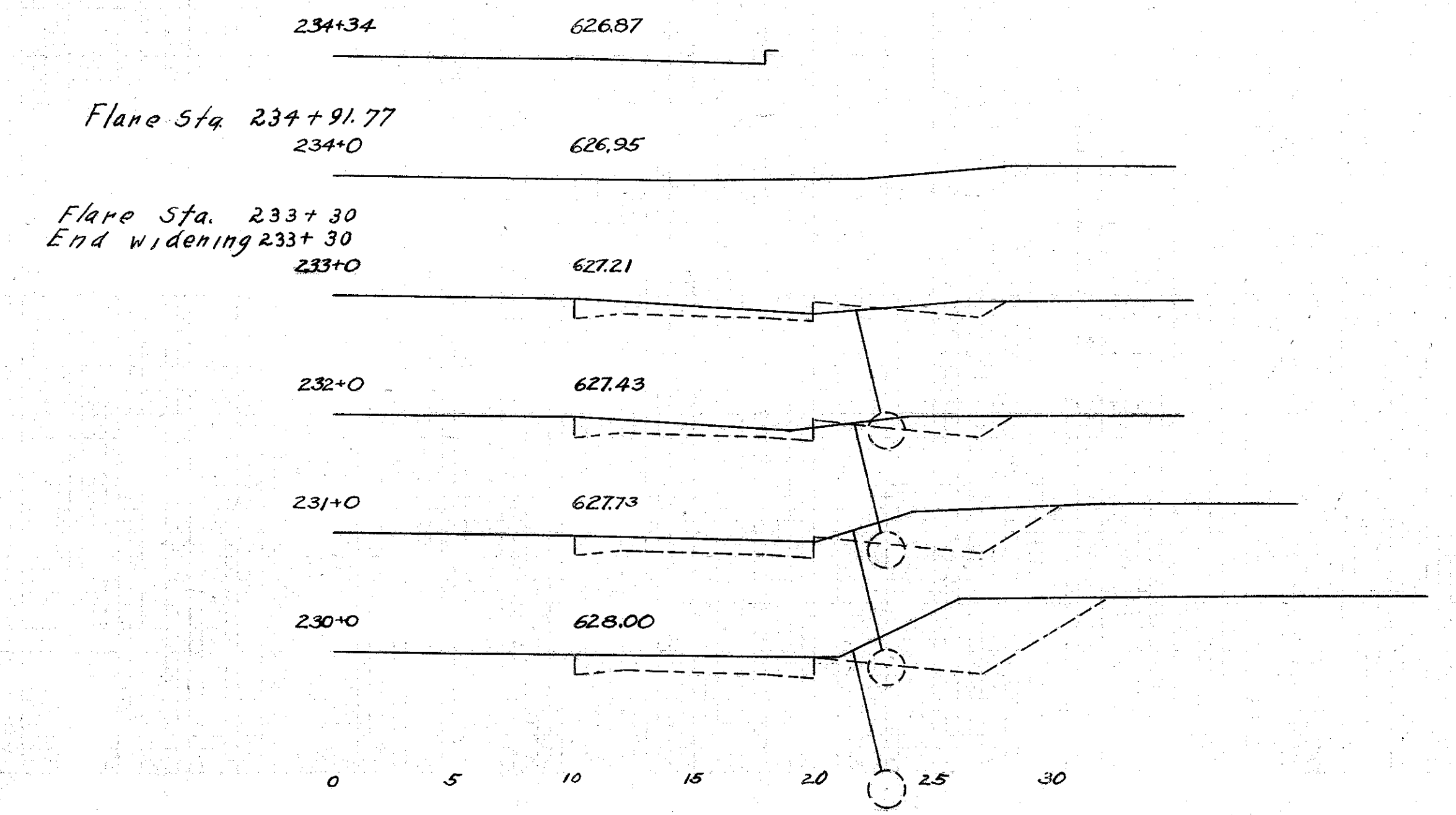
Flare Sta. 219+49  
 End Widening at



**TOTAL EXCAVATION TYPE "C"**

Cut = 10083 Cu. yds.  
 Fill = 441 Cu. yds.  
 Fill + 15% = 507 Cu. yds.  
 Surplus = 9576 Cu. yds.

END AREA		CU. YARDS	
CUT	FILL	CUT	FILL
23.2	0.2		
25.6	0.0	90	0
16.8	0.0	47	0
8.8	0.2	28	1
6.2	0.4	7	1
		28	1
		28	



**SUPERELEVATION & WIDENING TABLE, CURVE No 1**  
 D = 12°

CENTER LINE STA.	GRADE	RIGHT EXISTING EDGE			RIGHT OUTER EDGE			WIDTH OF WIDENING
		ELEV. EDGE	DIST. TO £	DIST. TO £	ELEV. EDGE	DIST. TO £	DIST. TO £	
33+61.53	641.22	641.12	10.00	20.00	640.93	10.00		
33+75	641.37	641.27	10.00	20.04	641.07	10.04		
34+00	641.64	641.51	10.00	20.24	641.29	10.29		
34+11.53	641.78	641.68	10.00	20.40	641.45	10.40		
34+25	641.94	641.84	10.70	20.66	641.59	9.96		
34+50	642.23	642.16	12.00	21.28	641.88	9.28		
34+61.53	642.37	642.26	12.60	21.66	641.97	9.06		
34+75	642.53	642.36	13.19	22.08	642.06	8.89		
35+00	642.82	642.55	14.29	22.51	642.23	8.22		
35+11.53	642.91	642.58	14.80	22.58	642.24	7.78		
35+25	643.02	642.69	14.80	22.58	642.35	7.78		
35+50	643.22	642.89	14.80	22.58	642.55	7.78		
35+75	643.35	643.02	14.80	22.58	642.68	7.78		
35+94.18	643.44	643.11	14.80	22.58	642.77	7.78		
36+00	643.47	643.20	14.54	22.53	642.87	7.99		
36+25	643.37	643.15	13.44	22.20	642.85	8.76		
36+44.18	643.31	643.12	12.60	21.66	642.84	9.06		
36+50	643.26	643.08	12.30	21.44	642.81	9.14		
36+75	643.04	642.91	11.00	20.77	642.67	9.77		
36+94.18	642.88	642.78	10.00	20.40	642.55	10.40		
37+00	642.83	642.74	10.00	20.29	642.52	10.29		
37+25	642.58	642.48	10.00	20.05	642.28	10.05		
37+44.18	642.39	642.29	10.00	20.00	642.10	10.00		

**SUPERELEVATION & WIDENING TABLE, CURVE No 2**  
 D = 6°

CENTER LINE STA.	GRADE	RIGHT EXISTING EDGE			RIGHT OUTER EDGE			WIDTH OF WIDENING
		ELEV. EDGE	DIST. TO £	DIST. TO £	ELEV. EDGE	DIST. TO £	DIST. TO £	
39+72.56	640.29	640.13	10.0	20.00	639.94	0.00		
40+00	640.05	639.88	10.0	20.10	639.69	0.10		
40+25	640.04	639.76	10.0	20.33	639.57	0.33		
40+50	640.03	639.61	10.0	20.71	639.19	0.71		
40+72.56	640.28	639.83	10.0	21.22	639.38	0.22		
41+00	640.75	640.22	10.0	21.86	639.67	1.86		
41+22.56	641.03	639.41	10.0	22.08	638.79	2.08		
41+50	641.33	639.72	10.0	22.08	639.11	2.08		
41+75	641.68	641.07	10.0	22.08	639.45	2.08		
42+00	642.04	641.40	10.0	22.08	639.76	2.08		
42+25	642.40	641.76	10.0	22.08	640.64	2.08		
42+50	642.74	642.10	10.0	22.08	641.46	2.08		
42+75	643.08	642.40	10.0	22.08	641.72	2.08		
43+03.75	643.34	642.78	10.0	22.08	642.22	2.08		
43+25	643.61	643.12	10.0	21.86	642.63	1.86		
43+53.75	643.93	643.54	10.0	21.22	643.15	1.22		
43+75	644.14	643.86	10.0	20.71	643.58	0.71		
44+00	644.39	644.22	10.0	20.33	644.03	0.33		
44+25	644.72	644.65	10.0	20.10	644.46	0.10		
44+53.75	645.11	645.04	10.0	20.00	644.85	0.00		

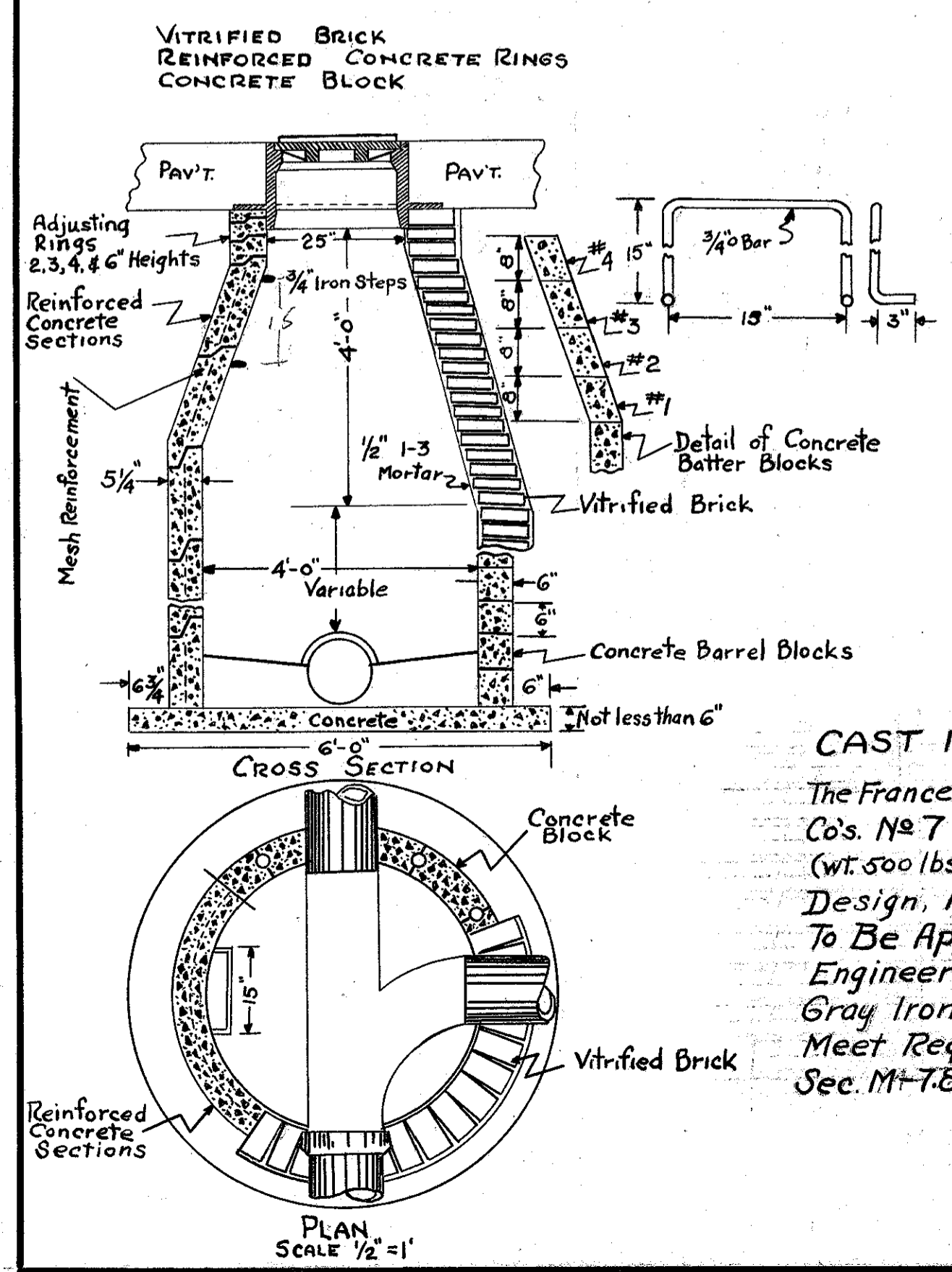
**GENERAL NOTES**

- EXCAVATION:** All surplus excavation and waste to be placed at the direction of the Engineer in charge.
- SEEDING:** Berms parallel to the pavement shall be seeded. Composition of seed mixture is as follows: 45% Blue Grass, 10% White Clover, 30% English Rye Grass and 15% Red Top. All seed to be of best quality and spread in an approved manner using 40 lbs to the acre. Seeding is to be done after berms and slopes have been finished. Lightly scarify the areas to be seeded. Sow with a modern spreader and roll immediately with a light roller. Time of seeding March 15th to May 15th or Sept. 1st. to Oct. 15th 3.66 A.C. X 40 = 146.4 lbs of seed required.
- DRAINAGE:** Where P.C.P. (Plain Concrete Pipe Sec. M.6.9) is indicated on the plans V.S.P.D.S. Sec. M.6.8 (a) May be substituted. Where R.C.P. (Reinforced Concrete Pipe Sec. M.6.5) is indicated on the plans V.S.P.S. Sec. M.6.8 (b) encased in concrete may be substituted. All existing drains to be connected to new lines, Y's or T's of proper size to be provided where necessary. Cost of same to be included in price bid per lin. ft. of tile.
- CURB:** Curb to be dropped at all existing drives and at any other location as directed by the Engineer in charge. Cost to be included in price bid per lin. ft.
- SIDEWALKS & DRIVES:** New concrete sidewalks shall be 4" thick. New concrete drives shall be 6" thick. Item I-23 shall govern the construction and payment of Concrete Drives.
- WATER LINE WORK:** Extension of water service tap shall consist of furnishing new 3/4" valve in new location and salvaging existing valve box, which is to be placed over new valve. The price bid per lin. ft. of Fire Hydrant Extension shall include the cost of furnishing 4" C.I. class "B" water pipe "A.S.T.M." and any fittings necessary to complete this item. The price bid for resetting Fire Hydrant & Valve shall include the cost of furnishing 0.5 Cu. Yd. No. 34 stone and 4' of 2'x12" creosoted plank for mounting Hydrant. Any or all salvaged materials made unfit for use thru the negligence of the contractor shall be replaced at no additional expense to the State. The price bid for the above items shall include excavation, hemp, jute, lead, and any other items necessary to complete this work.
- STONE STEPS:** The price bid for finishing slopes and berms shall include relaying stone steps to new position. Sta. 36+13

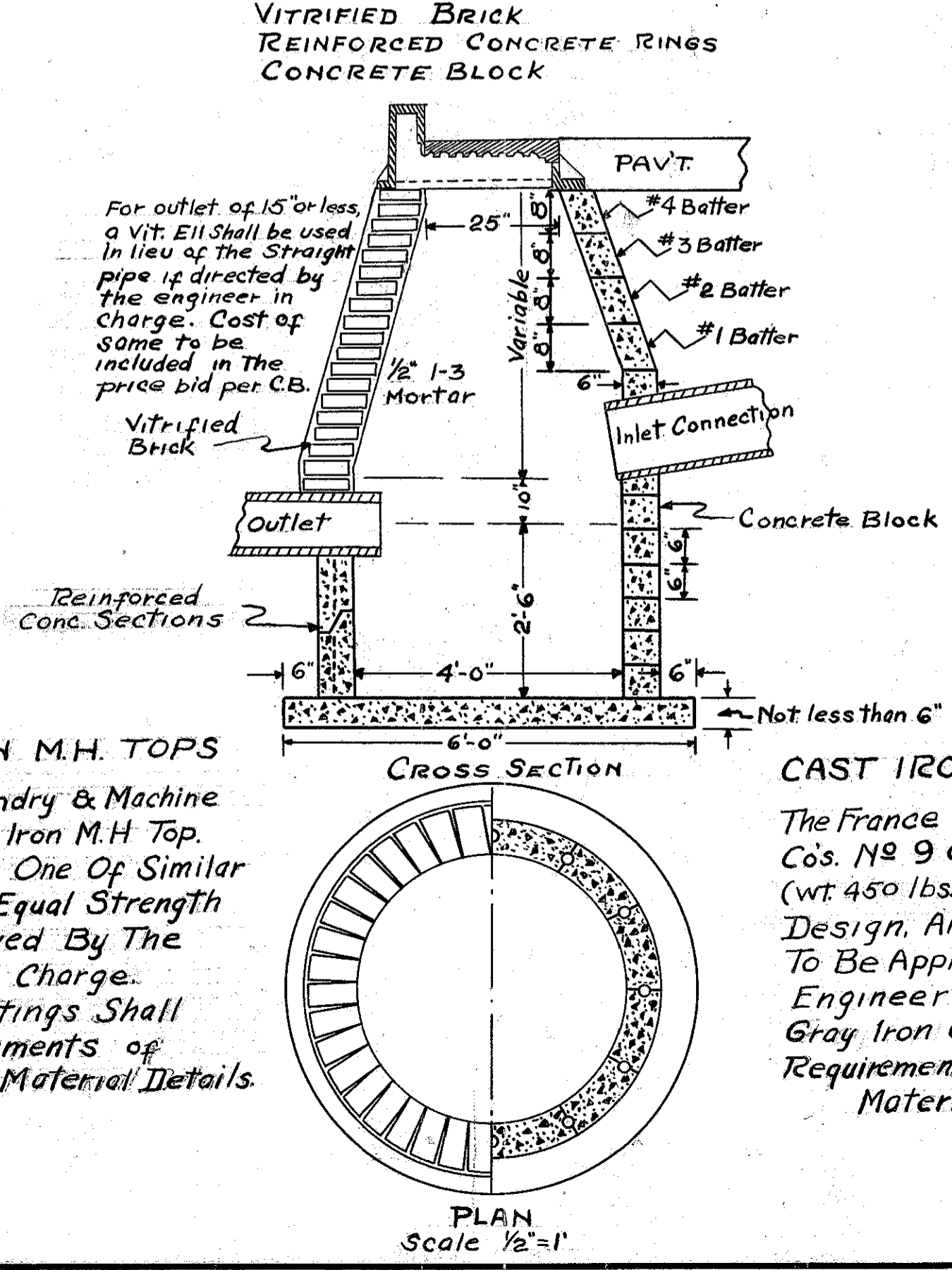
97.0 Sq. Yds. Extra Pavt. In Old Curve  
 59.6 Sq. Yds. Extra Pavt. In New Curve  
 37.4 Sq. Yds. Extra Pavt. Deduction In New Curve

80.81 Sq. Yds. Extra Pavt. In Curve

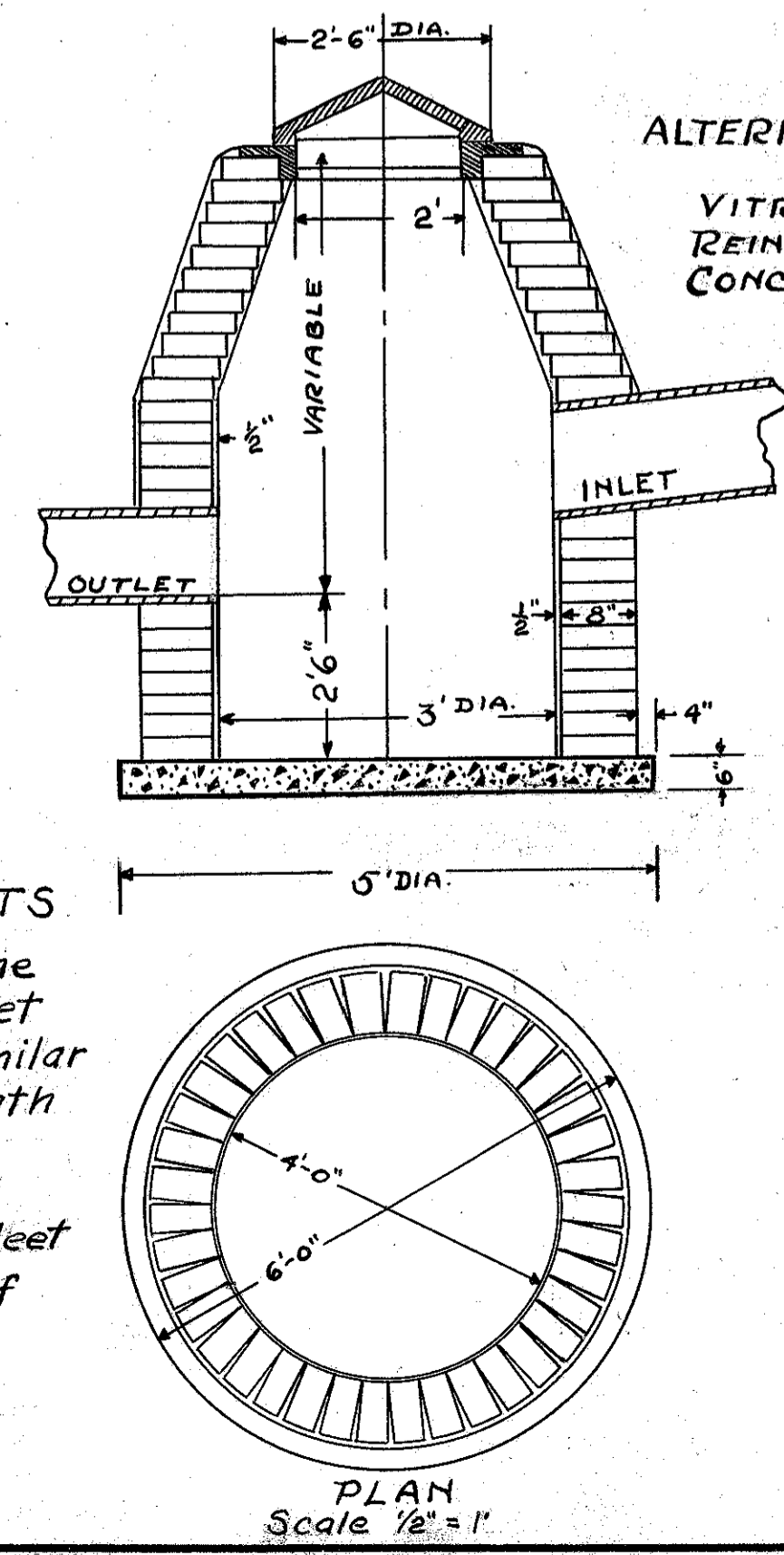
**SPECIAL MANHOLE**  
 ALTERNATE TYPES OF CONSTRUCTION



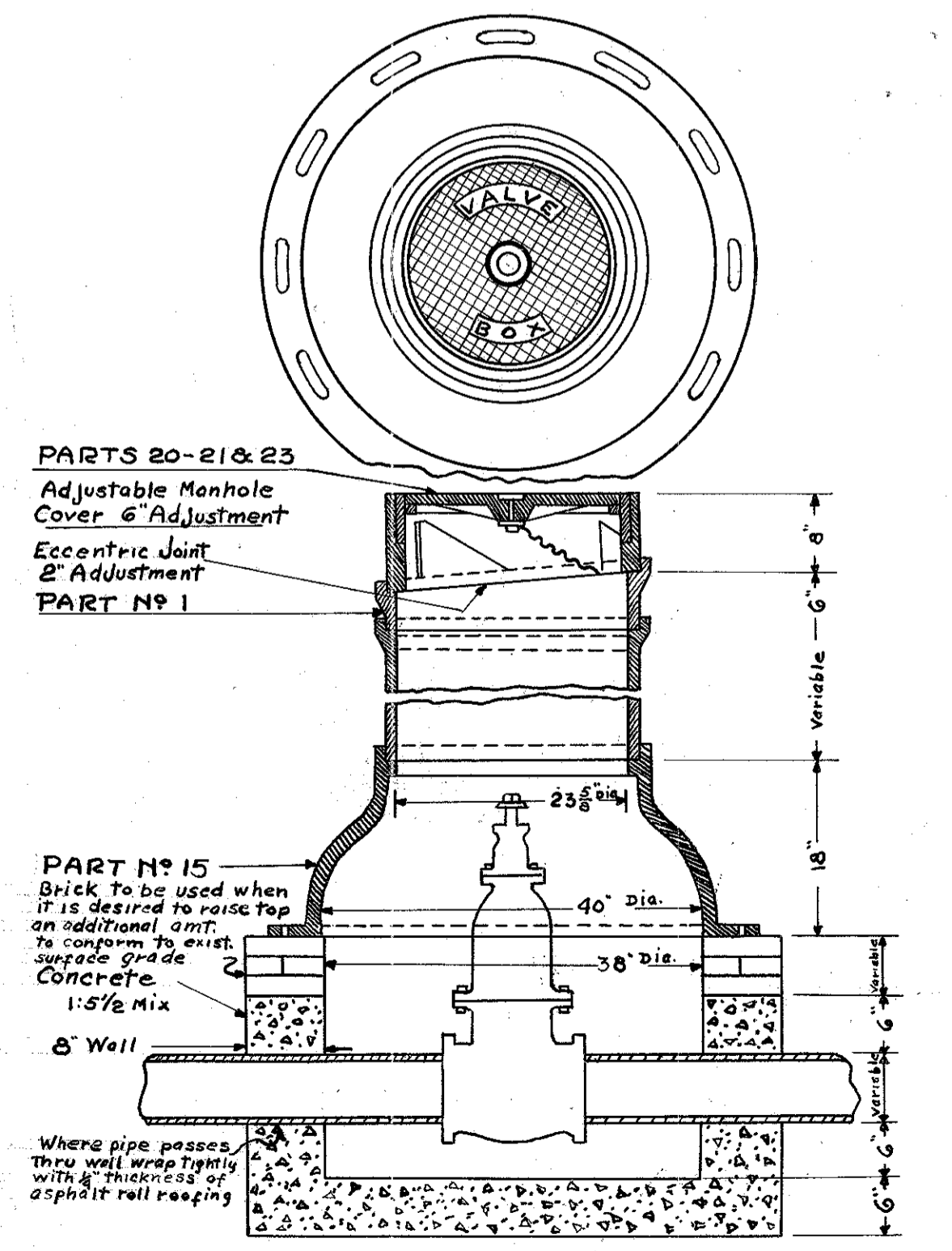
**SPECIAL CATCH BASIN #1**  
 ALTERNATE TYPES OF CONSTRUCTION



**SPECIAL CATCH BASIN #2**



**CAST IRON ADJUSTABLE VALVE BOX & COVER**



**CAST IRON M.H. TOPS**  
 The France Foundry & Machine Co's. No 7 Cast Iron M.H. Top. (wt. 500 lbs.) Or One Of Similar Design. And Equal Strength To Be Approved By The Engineer In Charge. Gray Iron Castings Shall Meet Requirements of Sec. M-7.8 of Material Details.

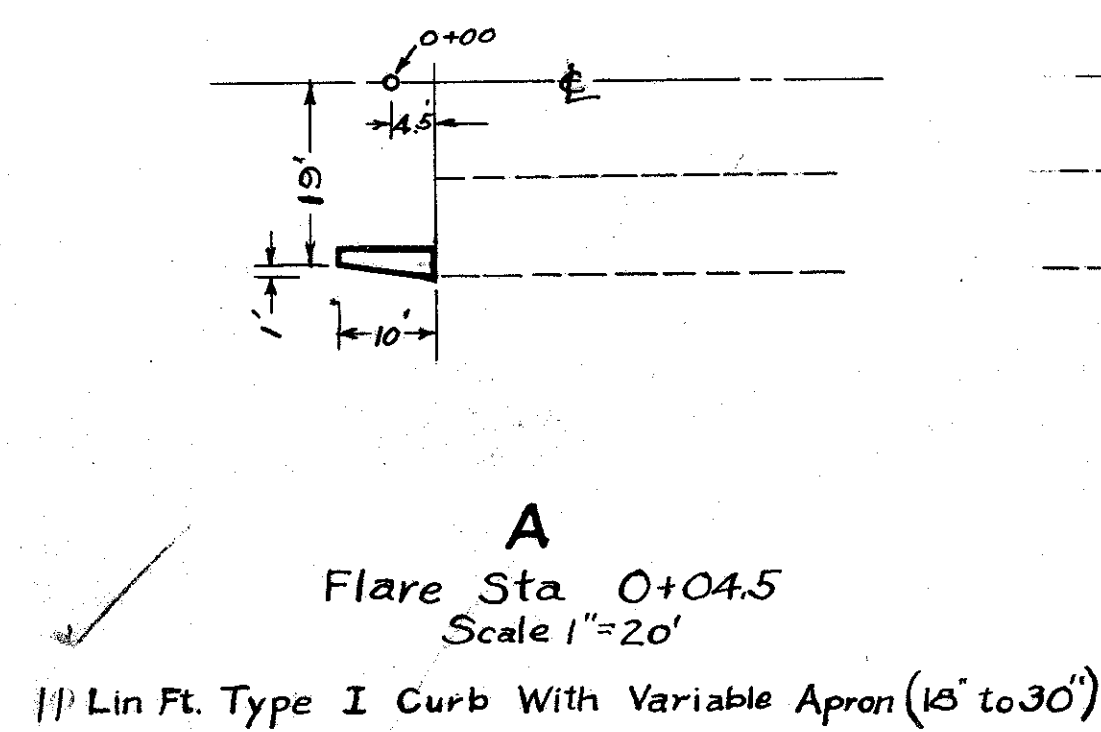
**CAST IRON CURB INLETS**  
 The France Foundry & Machine Co's. No 9 Cast Iron Curb Inlet (wt. 450 lbs.) Or One Of Similar Design. And Equal Strength To Be Approved By The Engineer In Charge. Gray Iron Castings Shall Meet Requirements of Sec. M-7.8 of Material Details.

**CONVEX GRATE INLETS**  
 The France Foundry & Machine Co's. No 27 Cast Iron Grate Inlet (wt. 165 lbs.) Or One Of Similar Design. And Equal Strength To Be Approved By The Engineer In Charge. Gray Iron Castings Shall Meet Requirements of Sec. M-7.8 of Material Details.



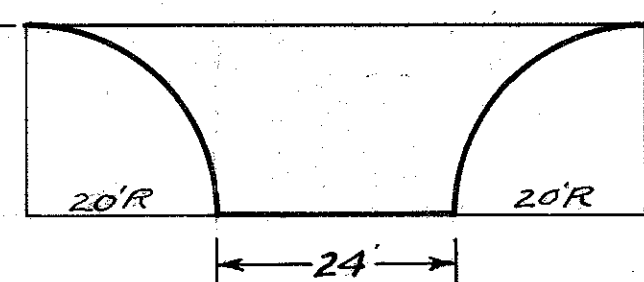
# EXTRA PAVEMENT QUANTITIES

Station	PAVEMENT DEDUCTIONS & ADDITIONS AT CURVES			
	Curve Number & Length	Length of 10' Widening	Lin. Ft. of Pavement Deduction	Lin. Ft. of Pavement Addition
34+61.53	1 182.65	176.93	5.72	
40+72.56	2 281.19	276.73	4.46	
52+33.97	3 198.12	197.08	1.04	
57+89.47	4 143.66	141.96	1.70	
61+63.96	5 375.94	383.81		7.87
88+57.35	6 305.14	304.34	0.80	
183+63.54	7 487.28	485.34	1.94	
			15.66	
				7.87
			8.17	



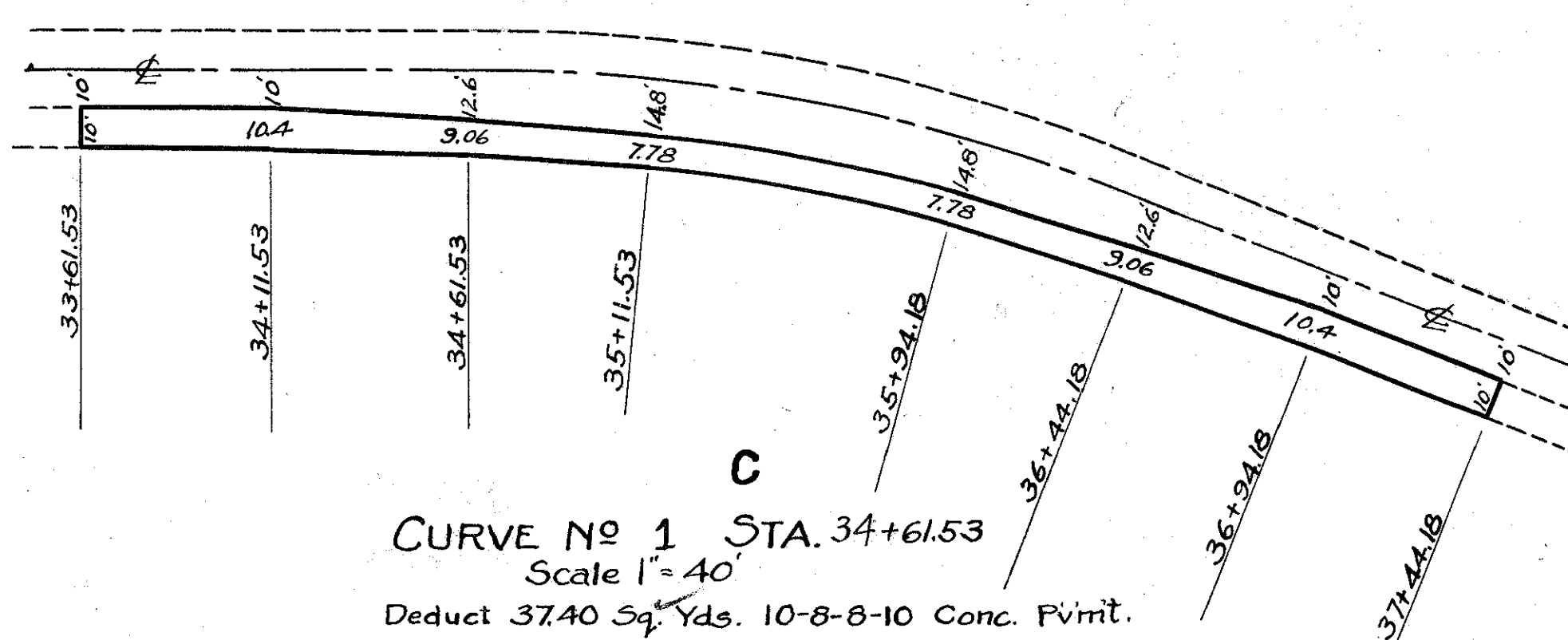
**A**  
 Flare Sta 0+04.5  
 Scale 1"=20'

11' Lin Ft. Type I Curb With Variable Apron (15' to 30')



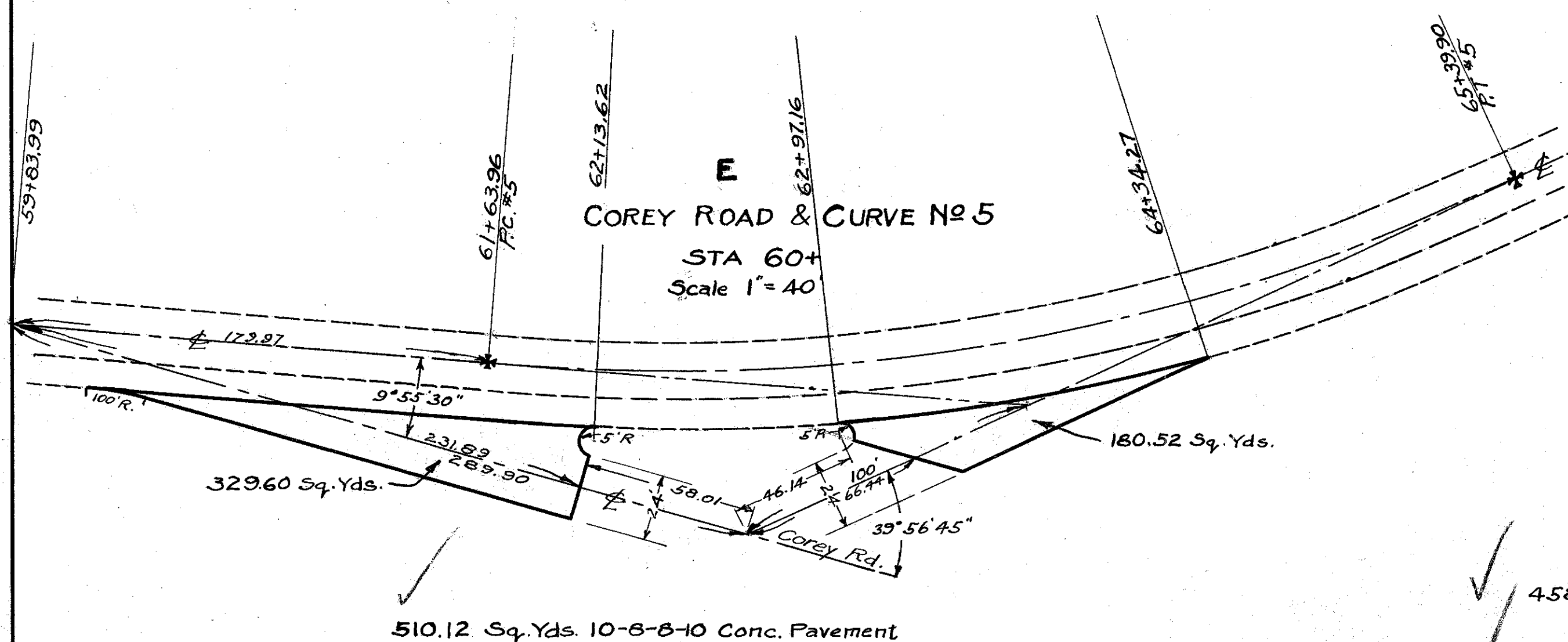
**B**  
 HARROUN RD Sta 14+56  
 Scale 1"=20'

72.41 Sq. Yds. 10-8-8-10 Conc. Pavement.

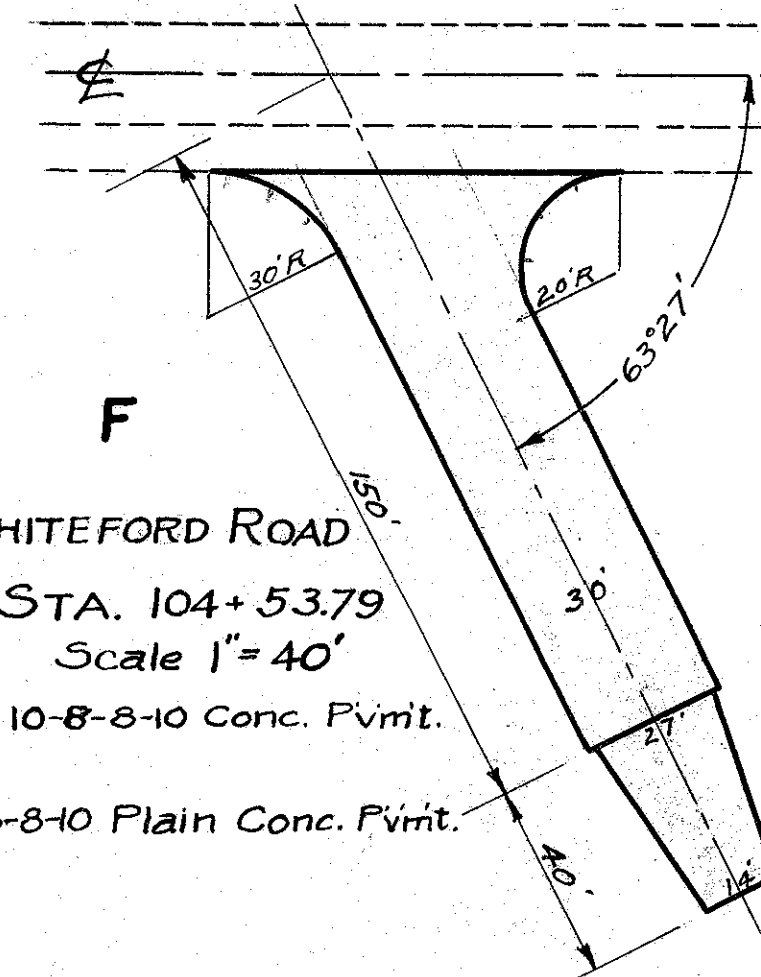


**C**  
 CURVE NO 1 STA. 34+61.53  
 Scale 1"=40'

Deduct 37.40 Sq. Yds. 10-8-8-10 Conc. P.vmt.



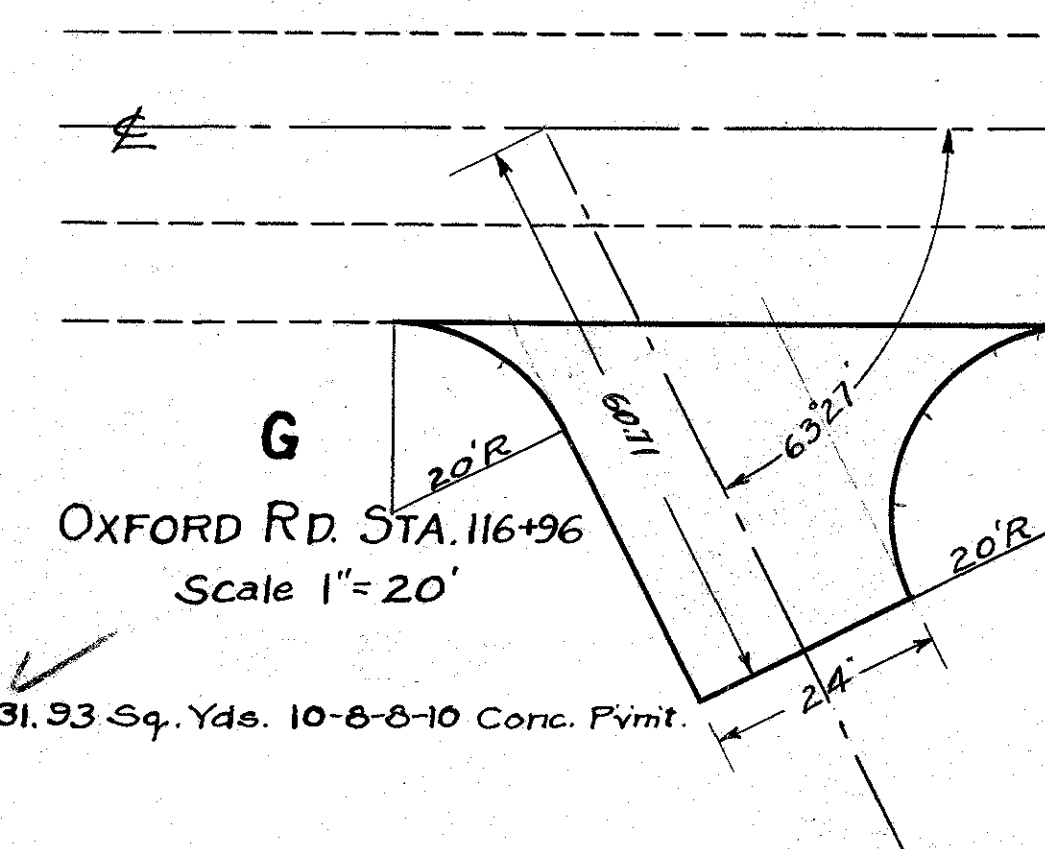
510.12 Sq. Yds. 10-8-8-10 Conc. Pavement



**F**  
 WHITEFORD ROAD  
 STA. 104+53.79  
 Scale 1"=40'

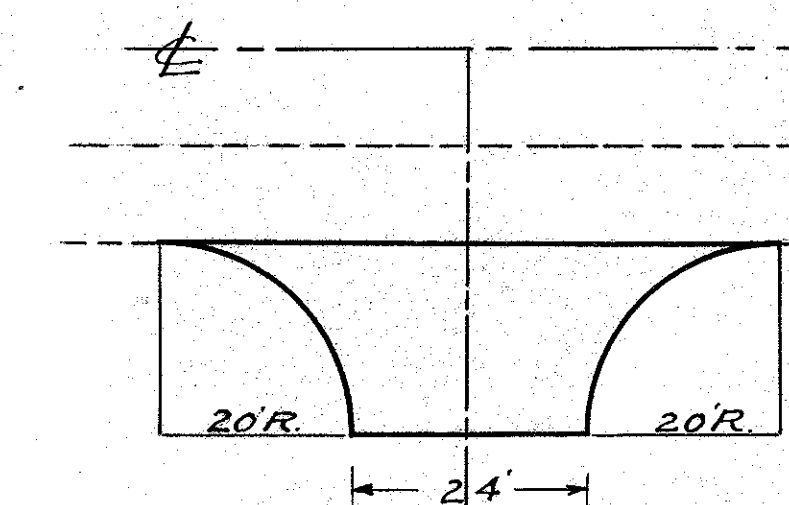
458.72 Sq. Yds. 10-8-8-10 Conc. P.vmt.

91.1 Sq. Yds. 10-8-8-10 Plain Conc. P.vmt.



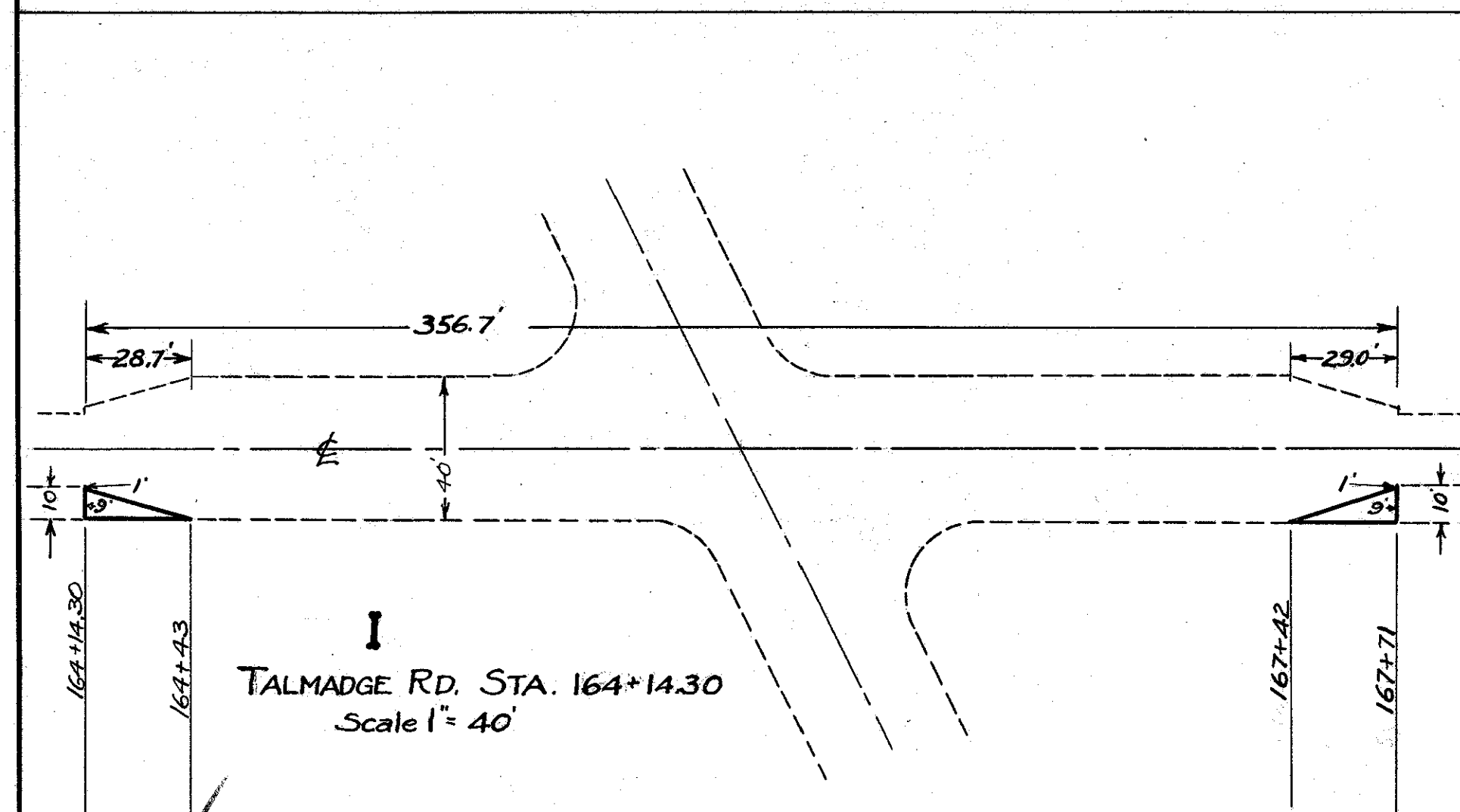
**G**  
 OXFORD RD. STA. 116+96  
 Scale 1"=20'

131.93 Sq. Yds. 10-8-8-10 Conc. P.vmt.



**H**  
 SADALIA RD. STA. 124+10  
 Scale 1"=20'

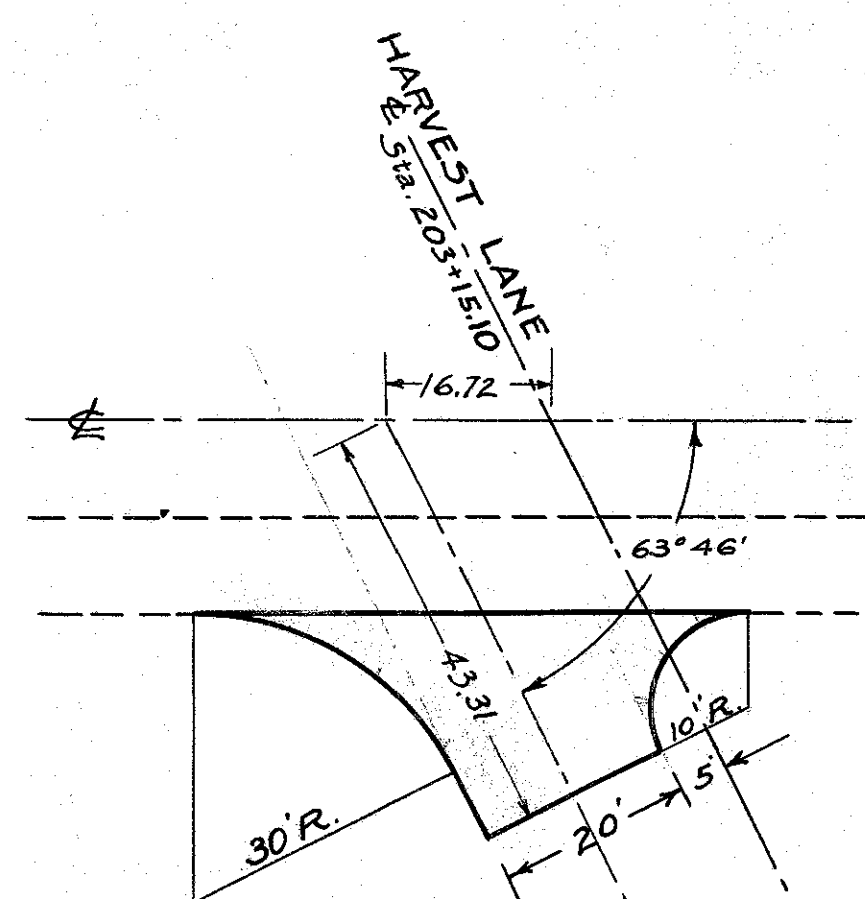
72.41 Sq. Yds. 10-8-8-10 Conc. P.vmt.



**I**  
 TALMADGE RD. STA. 164+14.30  
 Scale 1"=40'

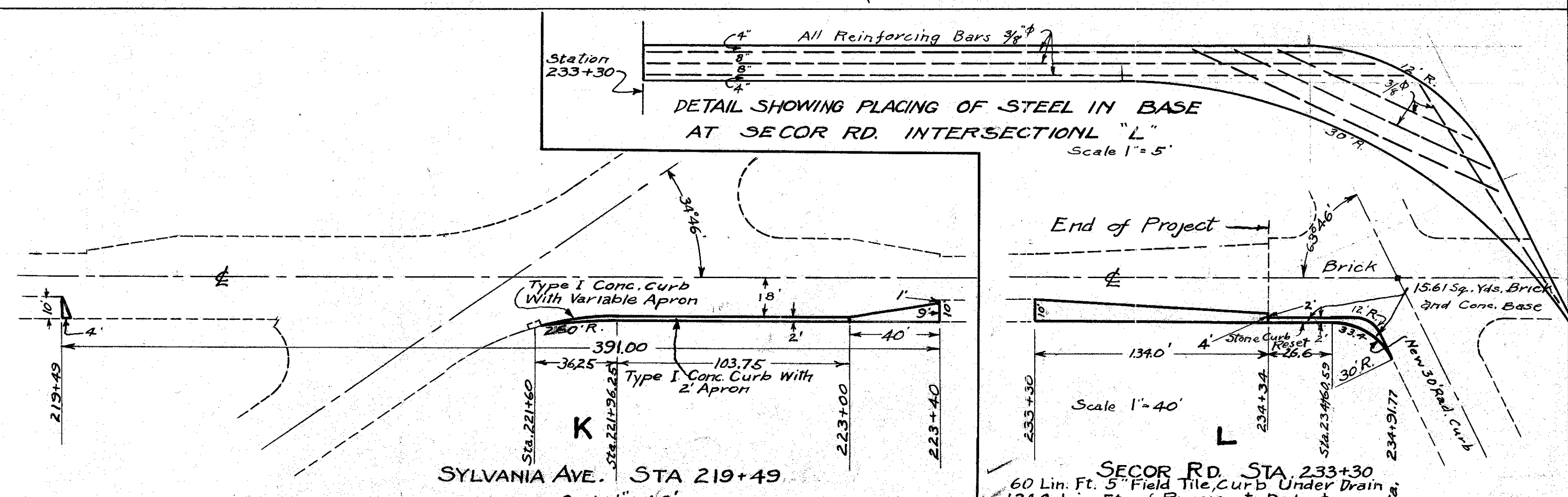
28.85 Sq. Yds. 10-8-8-10 Conc. Pavmt.

356.70 Lin. Ft. of Pavement Deduction



**J**  
 SCHOOL DRIVE STA. 202+98.38  
 Scale 1"=20'

60.00 Sq. Yds. 10-8-8-10 Concrete Pavement.



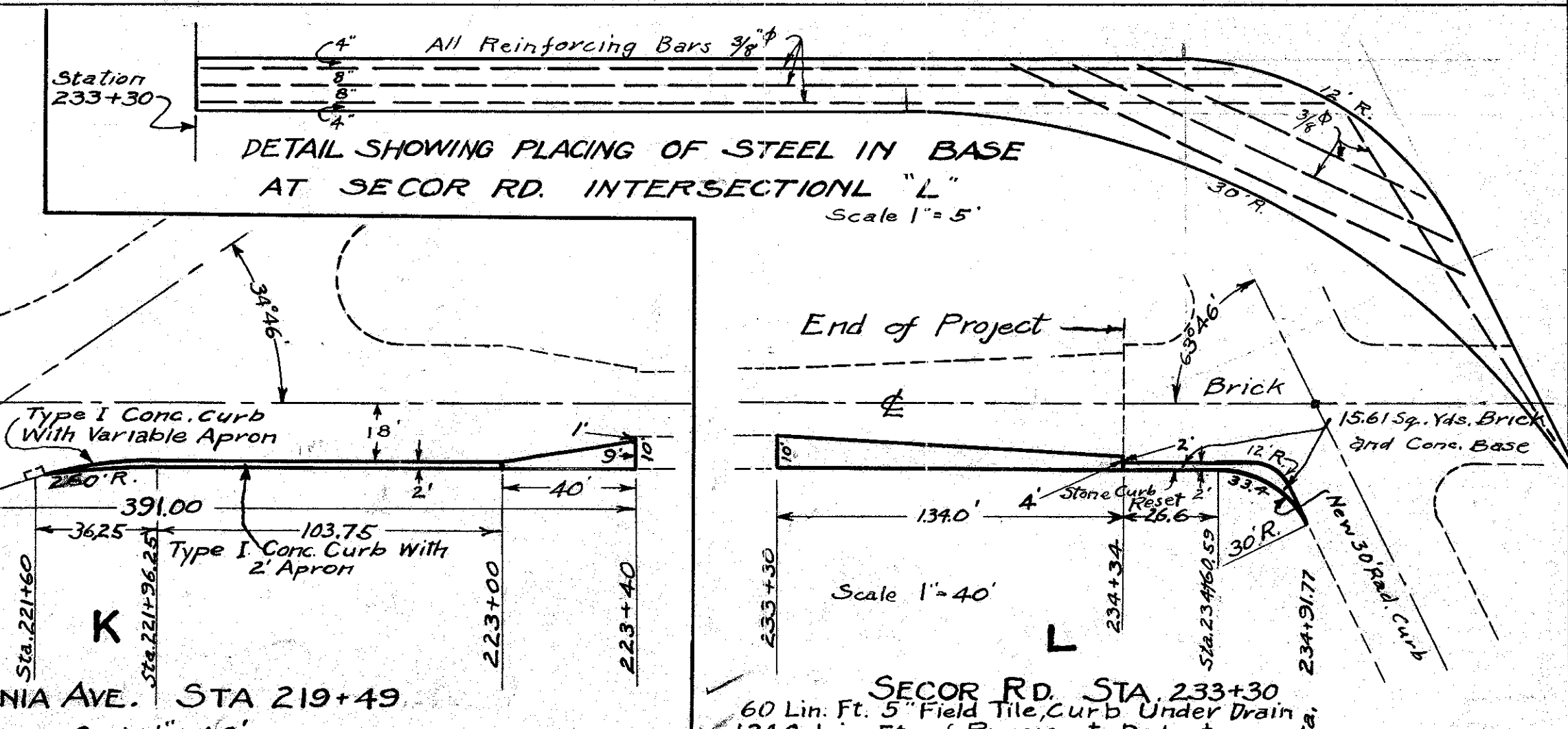
**K**  
 SYLVANIA AVE. STA 219+49  
 Scale 1"=40'

26.67 Sq. Yds. 10-8-8-10 Concrete Pavement.

103.76 Lin. Ft. Type I. Curb With 24" Apron.

36.25 Lin. Ft. Type I. Curb With Variable Apron (0' to 24')

391.0 Lin. Ft. of Pavement Deduction.



**L**  
 SECOR RD. STA. 233+30  
 Scale 1"=40'

60 Lin. Ft. 5" Field Tile, Curb Under Drain

134.0 Lin. Ft. of Pavement Deduction

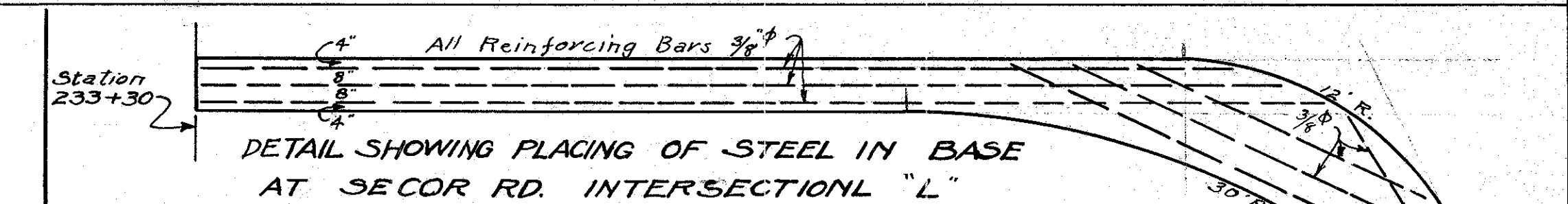
104.22 Sq. Yds. 10-8-8-10 Conc. Pavmt.

15.61 Sq. Yds. Brick Wearing Surface and Base.

26.6 Lin. Ft. Straight Stone Curb Reset.

33.4 Lin. Ft. of 30 Ft. Rad. Stone Curb.

63 Lbs. of Base Reinforcing. In 2' Base Strip Under Brick



DETAIL SHOWING PLACING OF STEEL IN BASE  
 AT SECOR RD. INTERSECTION "L"  
 Scale 1"=5'

