

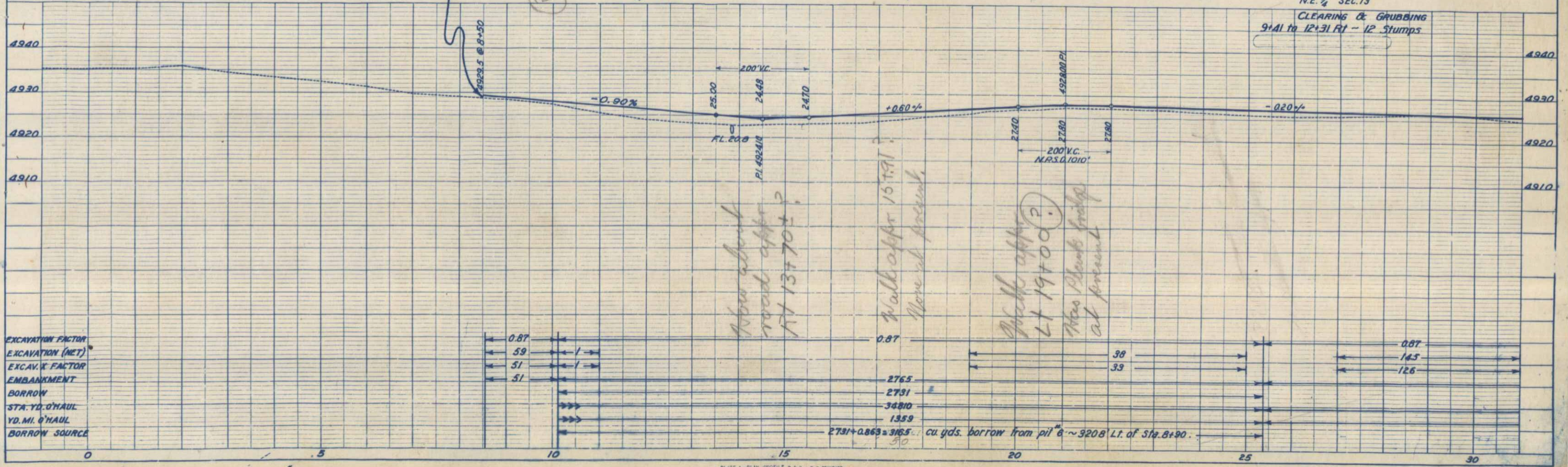
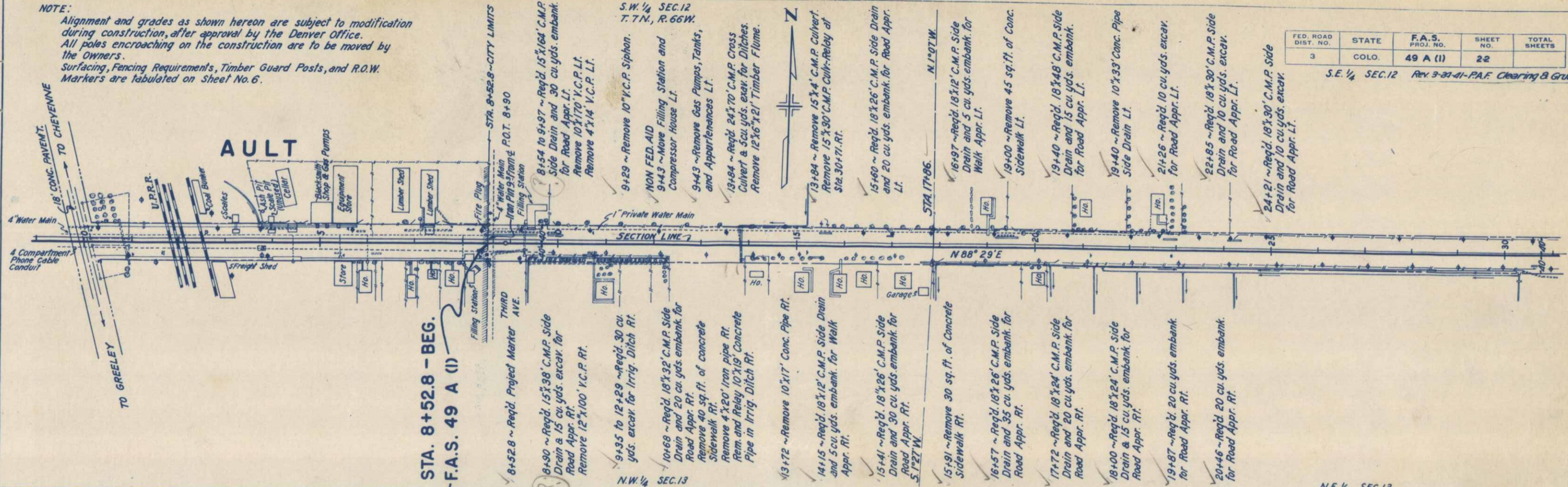
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NOTE: Alignment and grades as shown hereon are subject to modification during construction, after approval by the Denver Office. All poles encroaching on the construction are to be moved by the Owners. Surfacing, Fencing Requirements, Timber Guard Posts, and R.O.W. Markers are tabulated on Sheet No. 6.

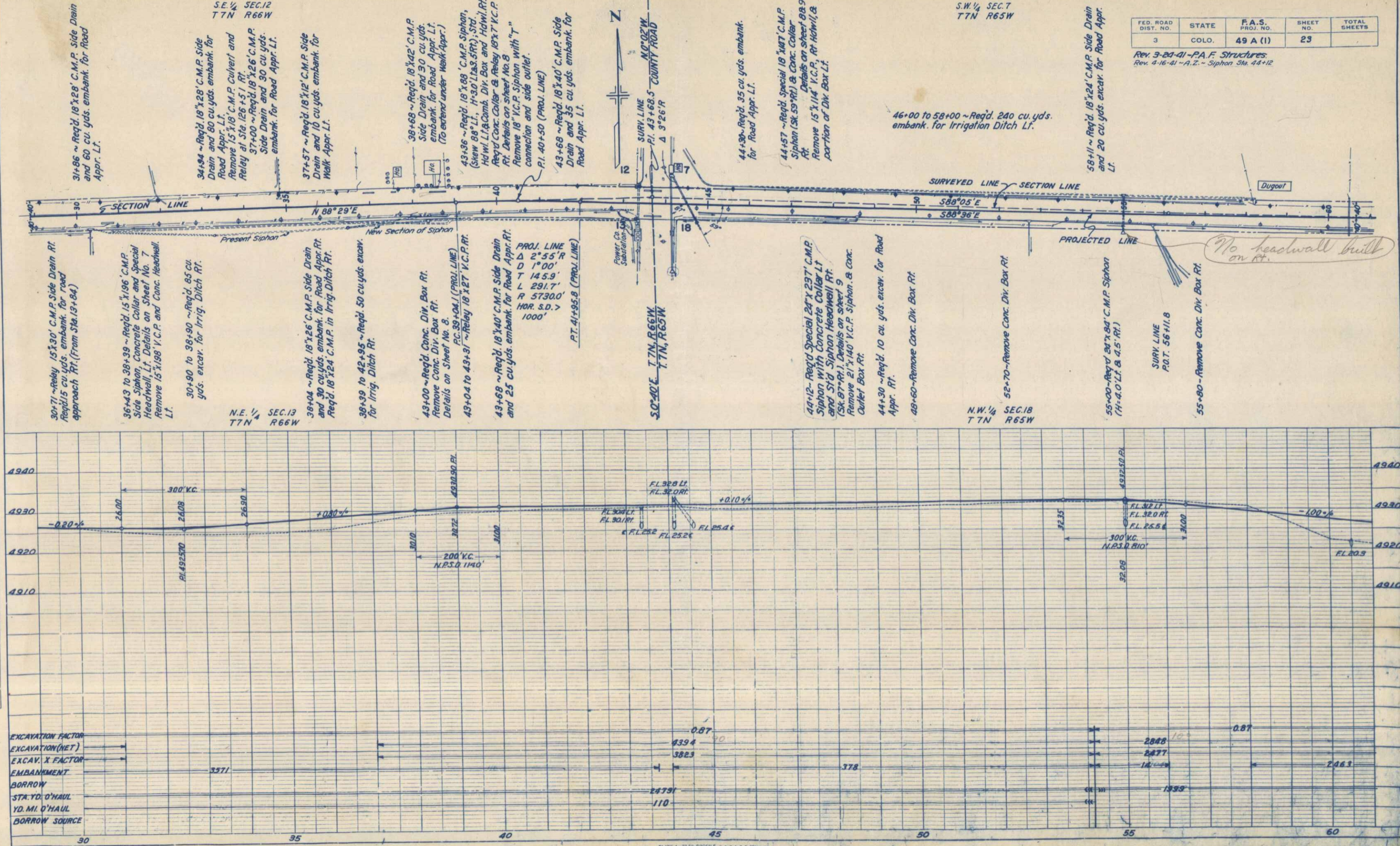
FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	49 A (1)	22	

S.E. 1/4 SEC. 12 Rev. 3-21-41-P.A.F. Clearing & Grubbing

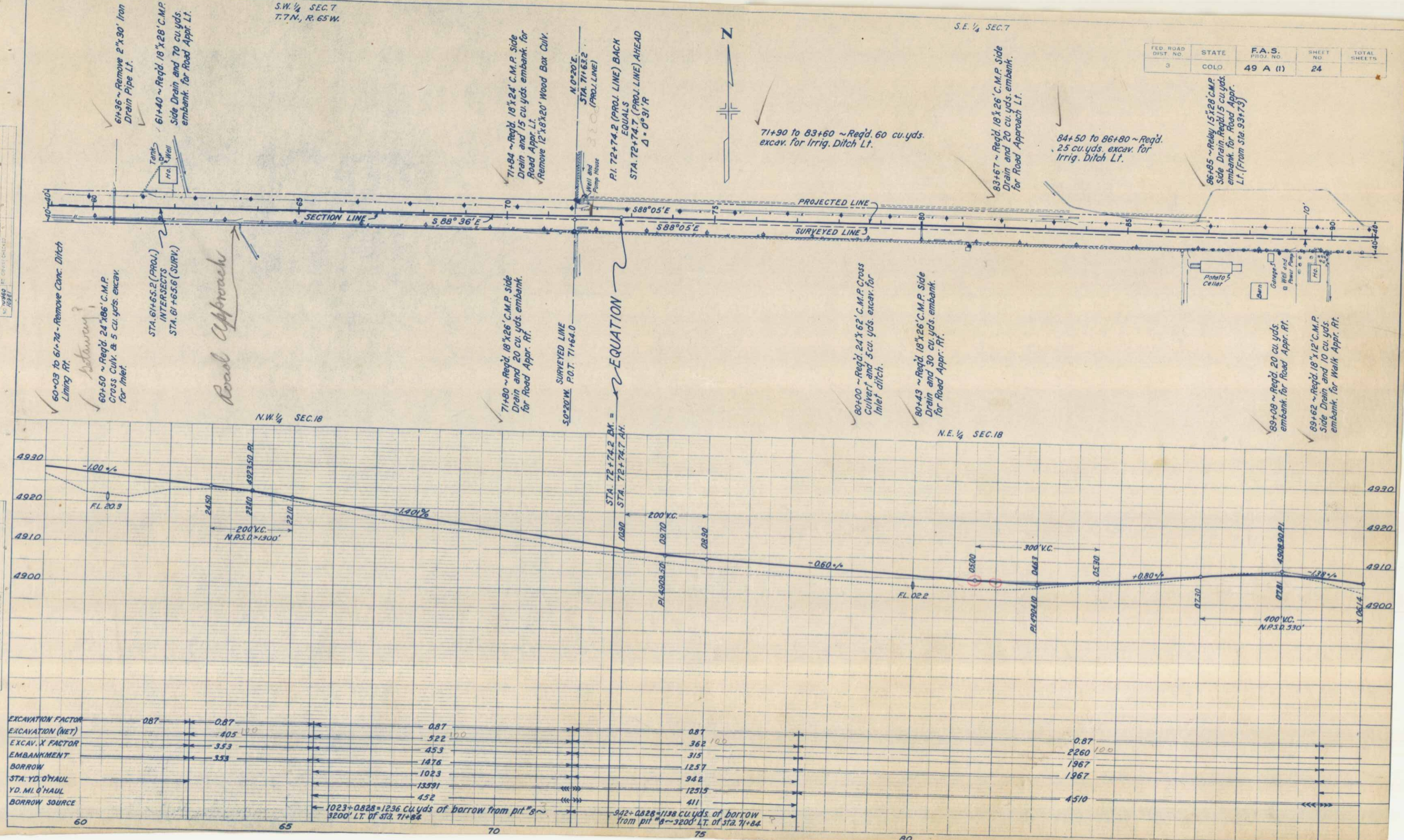


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Rev. 3-24-41 - P.A.F. Structures.
Rev. 4-16-41 - A.Z. - Siphon Sta. 44+12



FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	49 A (1)	24	



S.E. 1/4 SEC. 7

S.W. 1/4 SEC. 8
T. 7 N., R. 65 W.

FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	49 A (1)	25	

Rev. 3-25-41-A.Z. - Additional Clearing & Grubbing.

90+60 to 92+10 ~ Req'd. 10 cu. yds. excav. for Irrig. Ditch Lt.

96+10 to 97+30 ~ Req'd. 10 cu. yds. excav. for Irrig. Ditch Lt.

97+75 ~ Req'd. 20 cu. yds. embank. for Road Appr. Lt.

106+87 ~ Req'd. 18'x26' C.M.P. Side Drain and 20 cu. yds. embank. for Road Appr. Lt.
Remove 6'x12'x16' Wood Box Culv. Lt.

108+60 to 117+66 ~ Req'd. 90 cu. yds. excav. for Drain Ditch Lt.

114+99 ~ Relay 15'x20' C.M.P. in Drain Ditch Lt. (From Sta. 150+68)

114+98 ~ Req'd. 18'x78' C.M.P. Siphon (H-23' Lt. & 19' Rt.) and 10 cu. yds. excav. for Inlet and Outlet Ditches.
Remove 15'x60' C.M.P. Culvert & Relay Rt. & Lt. of 117+39.

117+39 ~ Relay 15'x30' C.M.P. in Drain Ditch Lt. (From Sta. 114+98).
Req'd. 70 cu. yds. embank. for Road Appr. Lt.
Remove 15'x28' C.M.P. Side Drain and Relay in Drain Ditch Lt.

117+66 ~ Remove 8'x20' Metal Pipe Lt.

NOTE: See Sheet No. 6 for Detour Requirements.
9'x146' V.C.P. to be left in place under Eaton Ditch.

120+45 ~ Move house off R.O.W. Lt.

118+50 ~ Req'd. 40 cu. yds. embank. for Road Appr. Rt. into field

93+73 ~ Remove 15'x28' C.M.P. Culvert, and Relay at Sta. 86+85 Lt.

97+40 ~ Req'd. 24'x52' C.M.P. Cross Culvert and 15 cu. yds. excav. for Ditches.

97+75 ~ Req'd. 20 cu. yds. embank. for Road Appr. Rt.

98+17 ~ Req'd. 10 cu. yds. embank. for Road Appr. Rt.

100+04 ~ Req'd. 18'x77' C.M.P. Siphon (H-19' Lt. & 18' Rt.) and 10 cu. yds. excav. for Inlet and outlet ditches.
Remove 15'x39' C.M.P. Culvert, & Relay at 104+38, Rt.

104+38 ~ Relay 15'x39' C.M.P. Side Drain, Req'd. 20 cu. yds. embank. for Road Appr. Rt. (C.M.P. from Sta. 100+04)

117+39 ~ Relay 15'x30' C.M.P. Side Drain Rt. Req'd. 10 cu. yds. excav. for Outlet Ditch Rt. and 20 cu. yds. embank. for Road Appr. Rt. (C.M.P. from Sta. 114+98)

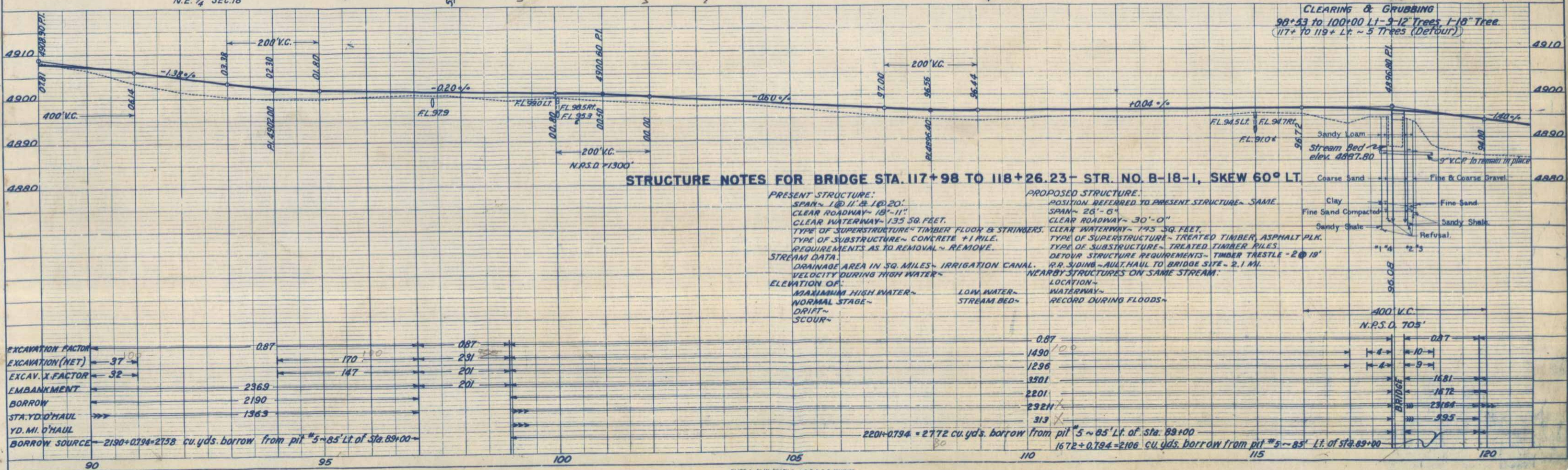
117+98 to 118+26.23 ~ Req'd. Bridge (Sk. 60° Lt.) Details on Sheet No. 10 Remove Bridge.

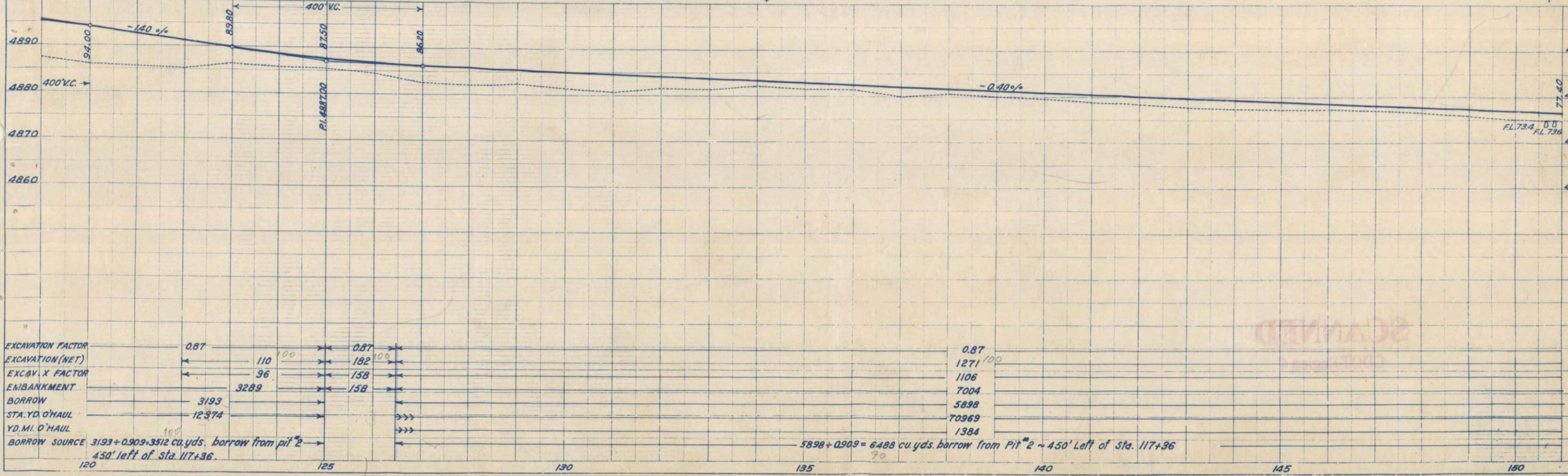
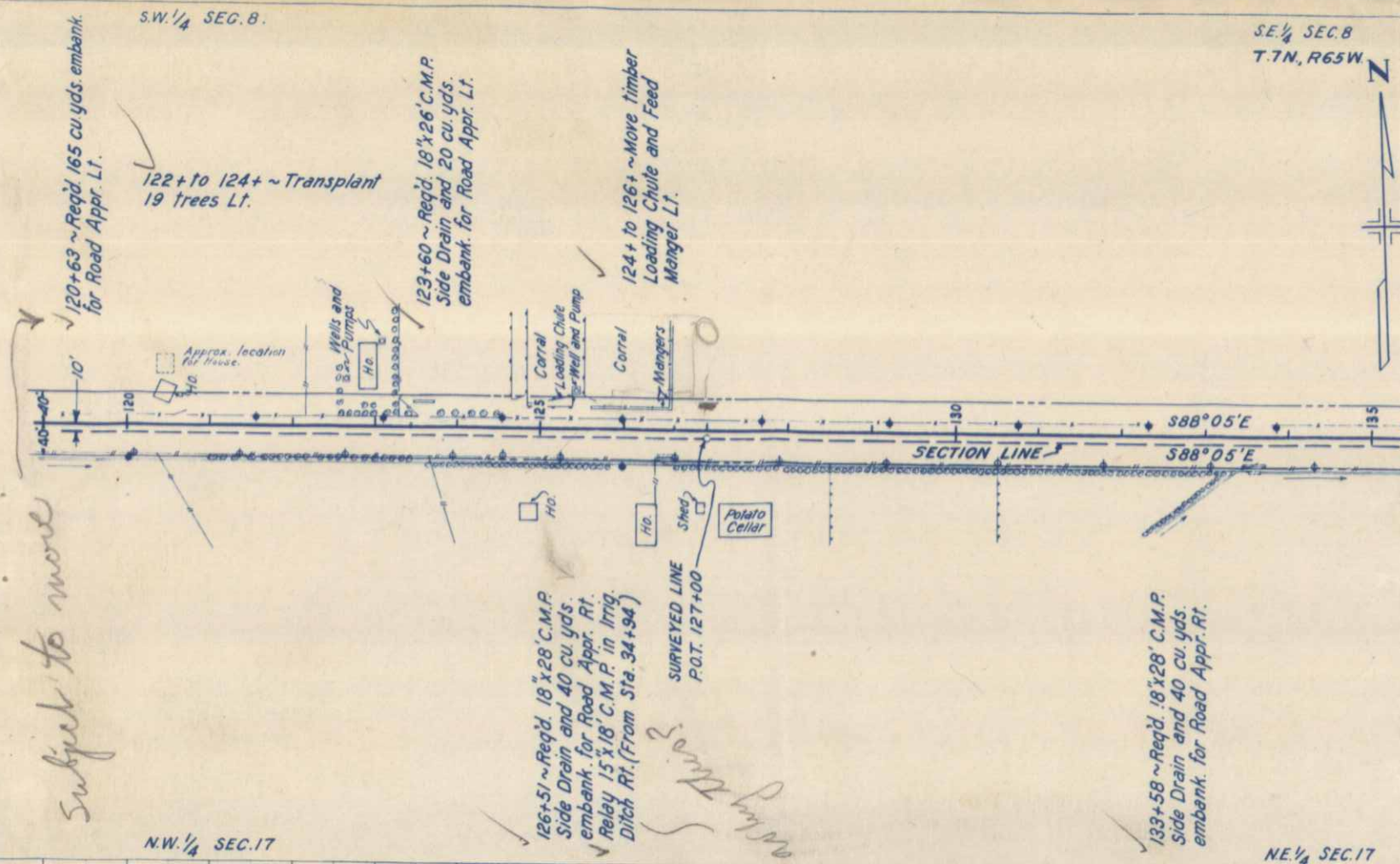
118+35 ~ Req'd. 40 cu. yds. embank. for apppr to ditch bank Rt.

118+50 ~ Req'd. 40 cu. yds. embank. for Road Appr. Rt. into field

N.E. 1/4 SEC. 18

N.W. 1/4 SEC. 17





EXCAVATION FACTOR	0.87	0.87	0.87
EXCAVATION (NET)	110	182	1271
EXCAV. X FACTOR	96	158	1106
EMBANKMENT	3289	158	7004
BORROW	3193		5898
STA. YD. O'HAUL	12374		70969
YD. MI. O'HAUL			1384
BORROW SOURCE	3193 + 0.909 = 3512 cu yds. borrow from pit #2 450' left of Sta. 117+36.		
	5898 + 0.909 = 6488 cu yds. borrow from Pit #2 ~ 450' Left of Sta. 117+36		

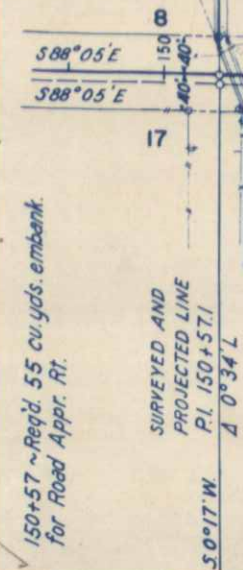
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PROFILE	REVISED	DATE
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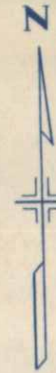
150+68 ~ Req'd 30'x17'x94' C.M.P. Arch Cross Culvert (Skew 65° Rt.) and 5 cu yds. excav. for Ditches. Remove comb. 15' C.M.P. and 15' V.C.P. Culvert, and Relay 15'x20' C.M.P. in Drain Ditch Lt. of 114+98.

150+85 ~ Req'd 20 cu yds. embank. for Road Appr. Lt. Remove 18'x36' C.M.P. Culvert, and Relay at Sta. 165+90 Rt.

150+80 ~ Req'd 30'x17'x84' C.M.P. Arch Cross Culvert (Skew 68° Rt.) and 5 cu yds. excav. for Ditches. Remove 24'x53' C.M.P. Siphon.



S.W. 1/4 SEC. 9
T. 7 N., R. 65 W.



167+13 ~ Req'd 18'x26' C.M.P. Side Drain and 15 cu yds. embank. for Road Appr. Lt.

168+58 ~ Req'd 18'x26' C.M.P. Side Drain and 20 cu yds. embank. for Road Appr. Lt.

NOTE: See Sheet No. 6 for Detour Requirements.

172+92 ~ Req'd 35 cu yds. embank. for Road Appr. Lt.

177+28 ~ Req'd 25 cu yds. embank. for Road Appr. Lt.

Side Drain?

S.E. 1/4 SEC. 9

FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	49 A (1)	27	

165+90 ~ Relay 18'x36' C.M.P. Side Drain. Req'd 25 cu yds. embank. for Road Appr. Rt. (From Sta. 150+85)

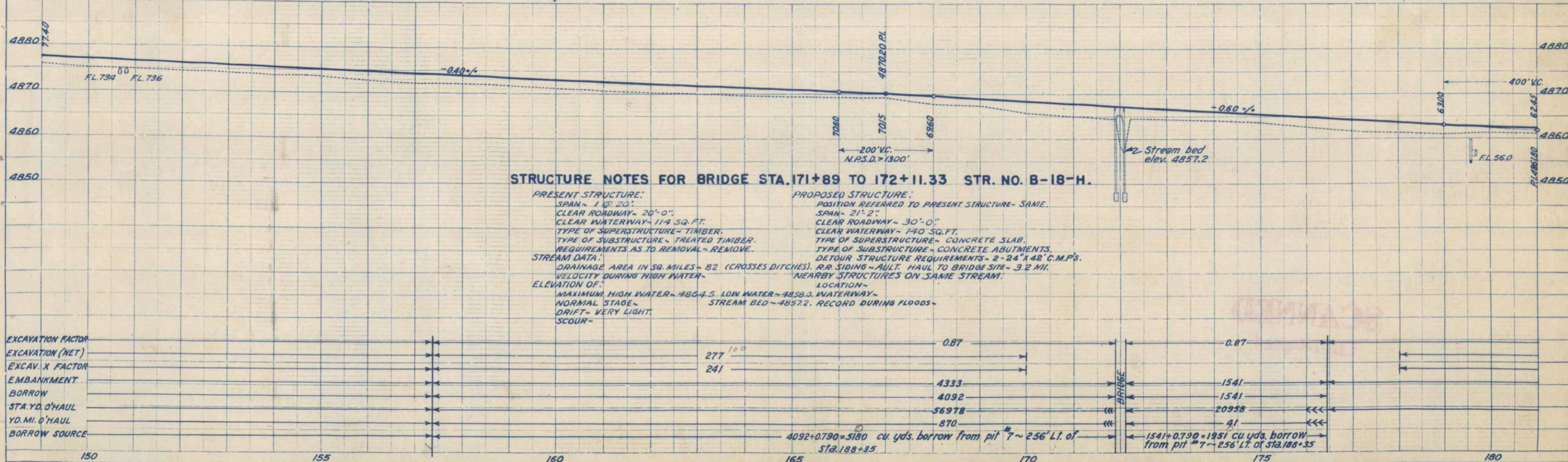
171+89 TO 172+11.33 ~ Req'd. Bridge and 300 cu yds. excav. for Channel Improvement. Excavated material to be used to Dike Channel. Details on Sheets No. 11 & 12. Remove Bridge.

174+13 ~ Req'd 35 cu yds. embank. for Road Appr. Rt.

178+93 ~ Req'd 40 cu yds. embank. for Road Appr. Rt.

179+70 ~ Req'd 15'x72' and 15'x6' C.M.P. Cross Culvert (Skew 75° Rt.), Special "13 Conc. Inlet under borrow pit Lt., and Conc. Collar Rt. & Lt. Details on Sheet No. 7. Remove 10'x10' Timber Drain

N.E. 1/4 SEC. 16



STRUCTURE NOTES FOR BRIDGE STA. 171+89 TO 172+11.33 STR. NO. B-18-H.

PRESENT STRUCTURE:

SPAN ~ 120'-0"
CLEAR ROADWAY ~ 20'-0"
CLEAR WATERWAY ~ 114 SQ. FT.
TYPE OF SUPERSTRUCTURE ~ TIMBER.
TYPE OF SUBSTRUCTURE ~ TREATED TIMBER.
REQUIREMENTS AS TO REMOVAL ~ REMOVE.

STREAM DATA:

DRAINAGE AREA IN SQ. MILES ~ 82 (CROSSES DITCHES). RR SIDING ~ AULT. HAUL TO BRIDGE SITE ~ 3.2 MI.
VELOCITY DURING HIGH WATER ~
ELEVATION OF:
MAXIMUM HIGH WATER ~ 4864.5. LOW WATER ~ 4858.0. WATERWAY ~
NORMAL STAGE ~
DRIFT ~ VERY LIGHT.
SCOUR ~

PROPOSED STRUCTURE:

POSITION REFERRED TO PRESENT STRUCTURE ~ SAME.
SPAN ~ 21'-2"
CLEAR ROADWAY ~ 30'-0"
CLEAR WATERWAY ~ 140 SQ. FT.
TYPE OF SUPERSTRUCTURE ~ CONCRETE SLAB.
TYPE OF SUBSTRUCTURE ~ CONCRETE ABUTMENTS.
DETOUR STRUCTURE REQUIREMENTS ~ 2-24'x42' C.M.P.'s.
NEARBY STRUCTURES ON SAME STREAM:

EXCAVATION FACTOR
EXCAVATION (NET)
EXCAV. X FACTOR
EMBANKMENT
BORROW
STA. YD. O'HAUL
YD. MI. O'HAUL
BORROW SOURCE

