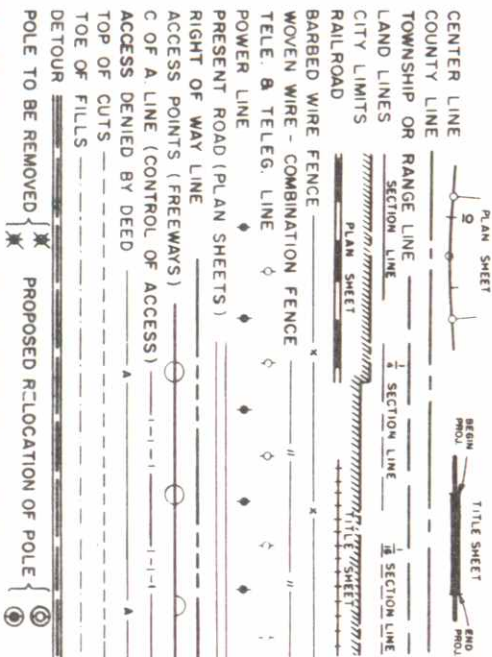


CONVENTIONAL SIGNS



TABULATION OF LENGTH & DESIGN DATA

STATION	ROADWAY	
	LIN. FT.	
560+00 BEGIN F 007-1(18) (PROJ.) = 560+00 END F 007-1(15) = 52' LT. 560+00 (SURV.)	2312.1	
583+12.1 BK. (PROJ.) = 582+89.1 AH. (PROJ.) = 12' LT. 582+89.1 (SURV.)	12,195.7	
704+84.8 BK. (PROJ.) = 703+00.0 AH. (PROJ.) = 32' LT. 703+00.0 (SURV.)	3,401.3	
739+01.3 BK. (PROJ.) = 739+01.0 AH. (PROJ.) = 32' LT. 739+01.0 (SURV.)	4899.0	
788+00 END F 007-1(18) (PROJ.) = 32' LT. 788+00 (SURV.) = 29.6' LT. 288+33.6 S 0057(3)		
TOTAL	22,808.1	
SUMMARY		
		LIN. FT. MILES
ROADWAY (NET AND GROSS LENGTH)		22,808.1 4.320

DESIGN DATA

MAXIMUM DEGREE OF CURVE	2° 30'
MAXIMUM GRADE	3.30%
MINIMUM SSD HORIZONTAL	> 900'
MINIMUM SSD VERTICAL	640'
MAXIMUM DESIGN SPEED	70 M.P.H.

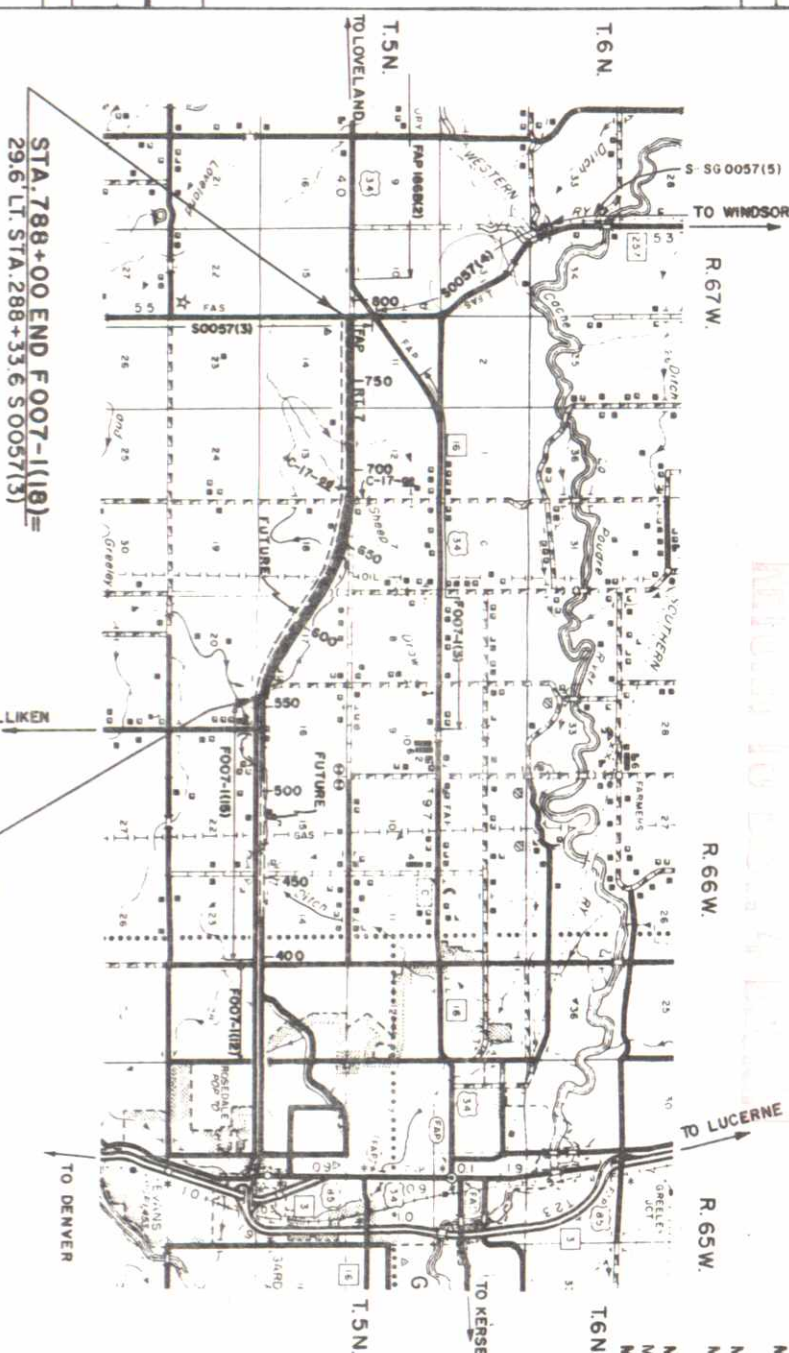
T.A.L.

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. F 007-1(18)

STATE HIGHWAY NO. 16
WELD COUNTY

ON PLAN, 1" = 100 FT.
ON PROFILE, 1" = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD



R.O.W., P.E. AND UTILITIES UNDER
PROJECT NO. F 007-1(11)

INDEX OF SHEETS

AS CONSTRUCTED
REVISED DATE May 28, 1968

FEDERAL ROAD DISTRICT	PROJECT NO.	SHEET NO.
9	F 007-1(18)	1

SKETCH MAP, TITLE PAGE AND TABULATION OF LENGTH AND DESIGN DATA.
TYPICAL SECTION, GENERAL NOTES AND SUB-EXCAVATION TABULATION
SUMMARY OF APPROXIMATE QUANTITIES
STRUCTURE QUANTITIES
TABULATION OF: FENCING, EARTHWORK QUANTITIES AND R.O.W. MARKERS.
DETAILS OF: DIVISION BOX, 560+ ; CONCRETE LINED DITCH, 550+50 TO 561+ ;
RIPRAP 687+ TO 694+ ; TURNOUT PORTS & CONCRETE LINED DITCH, 550+50 TO
561+ ; TYPICAL INTERSECTION; CONCRETE HEADWALL, 560+ LT.;
DETAILS OF: FRONTAGE ROADS, 535+ TO 561+ RT. AND 561+ TO 577+ LT.
ALIGNMENT PLAN AND PROFILE.
STRUCTURE CROSS SECTIONS.
CROSS SECTIONS
MUCK
CHANNEL CHANGE
SUB-EXCAVATION 47 - Location of Channel Change.
SUPERELEVATION OF CURVES - DIVIDED HIGHWAYS, 7-26-67.
APPROACH ROADS, FLARING, CUT SLOPE TREATMENT, BRIDGE AND
CREST WIDENING, 7-1-65.
DITCH TYPES 7-1-65.
EXCAVATION AND BACKFILL FOR STRUCTURES, (2 SHEETS), 3-17-67
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SINGLE AND DOUBLE CONCRETE BOX CULVERTS, 7-1-65.
WINGWALLS FOR CONCRETE BOX CULVERTS, 4.1 SIDE SLOPES.
(2 SHEETS) 7-17-67, 7-1-65.
WINGWALLS FOR CONCRETE BOX CULVERTS (2.1 SIDE SLOPES) 7-17-67.
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M-604-D. STEPS FOR MANHOLES AND INLETS, 7-1-65.
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M-612-A. MARKER POSTS AND BENCH MARKS, 5-2-66.
M-614-A. TIMBER BARRICADES, 7-1-65.
M-614-1A. CONSTRUCTION IDENTIFICATION SIGNS, 6-19-67.
M-614-1B. TRAFFIC SIGNING FOR HIGHWAY CONSTRUCTION (3 SHEETS) 7-12-67

SEE SPECIAL PROVISIONS FOR
NOTICE TO BIDDERS

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

APPROVED: *John E. Shuman*
CHIEF ENGINEER
DATE

APPROVED: *John E. Shuman*
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS
DATE

APPROVED: *John E. Shuman*
RESIDENT ENGINEER - M.H. GRICE
DATE

APPROVED: *John E. Shuman*
DIST. CONSTENED
DATE

DATE STARTED: JANUARY 22, 1968

DATE COMPLETED: MAY 28, 1968

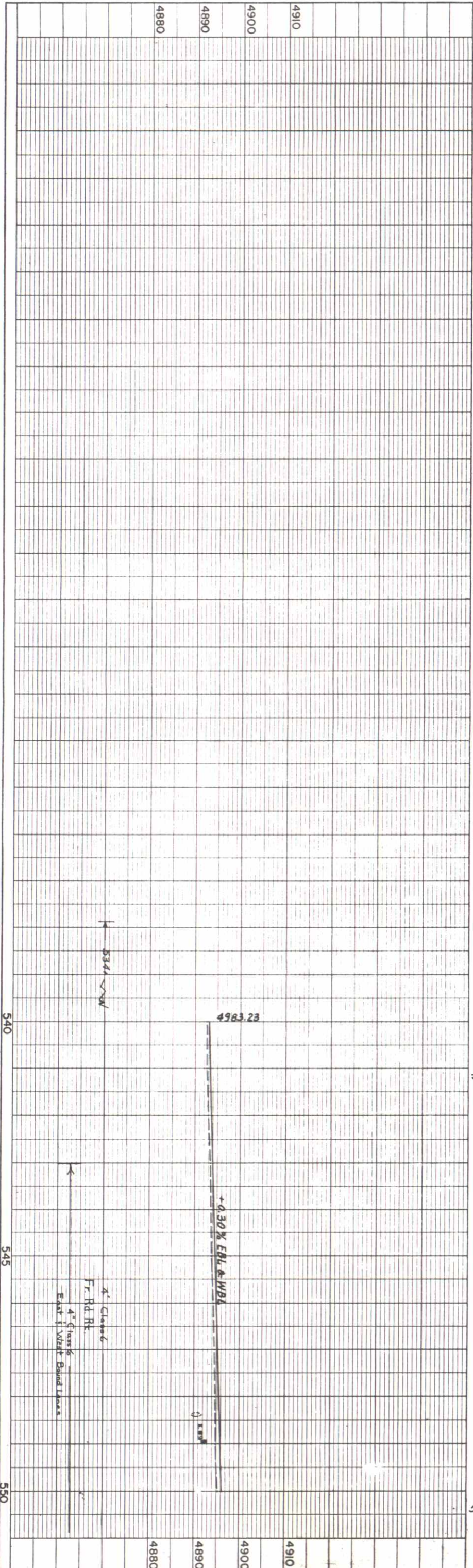
CONTRACTOR: HERREN-STRONG, INC.

RESIDENT ENGINEER: M.H. GRICE

APPROVED: *John E. Shuman*
DATE

PROFILE	DATE
NOTE BOOK	DATE
NO. 25990	

PLAN	DATE
NOTE BOOK	DATE
NO. 25990	



535+ Remove 7' Rt. Of 22"x13"x85' Culvert Pipe, Extend 18" C.S.P. Side Drain 20' East & 36' West, Concrete Inlet, Type C (H=5'-0") At West End (Connect to Cross Culvert) Fill Bulb Area Of Frontage Road. End Section At Inlet Of Side Drain. (See Sheet No. 9)

535+~561+ Req'd Frontage Rd. Rt. (Detail on Sheet No. 9)

539+~542+ Req'd Ditch Rt.

542+00~ Req'd 18"x50' Gross Culvert with End Sections, Rt. Under Frontage Road.

542+~561+ Req'd West Bound Lane Completion

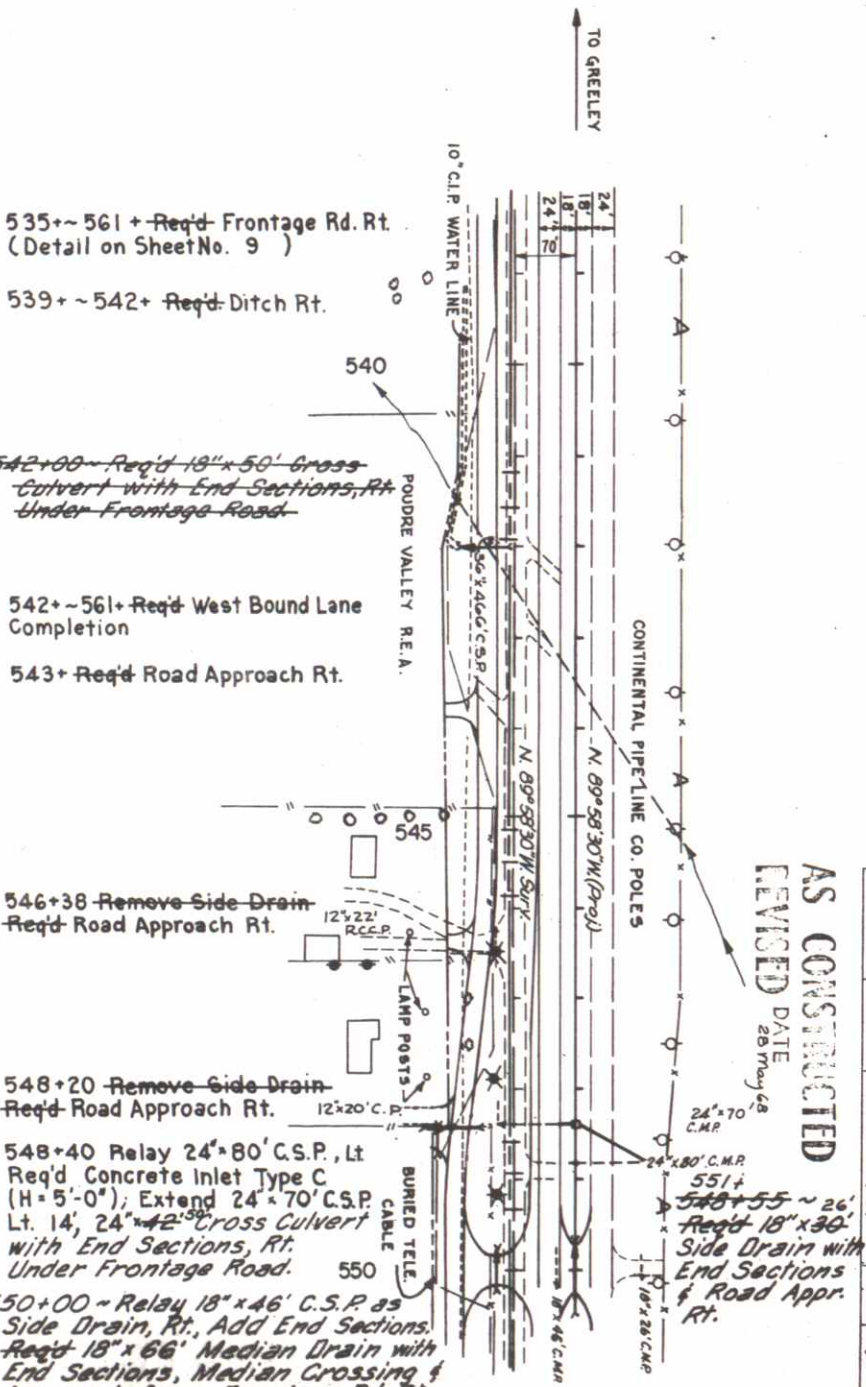
543+ Req'd Road Approach Rt.

546+38 Remove Side Drain Req'd Road Approach Rt.

548+20 Remove Side Drain Req'd Road Approach Rt.

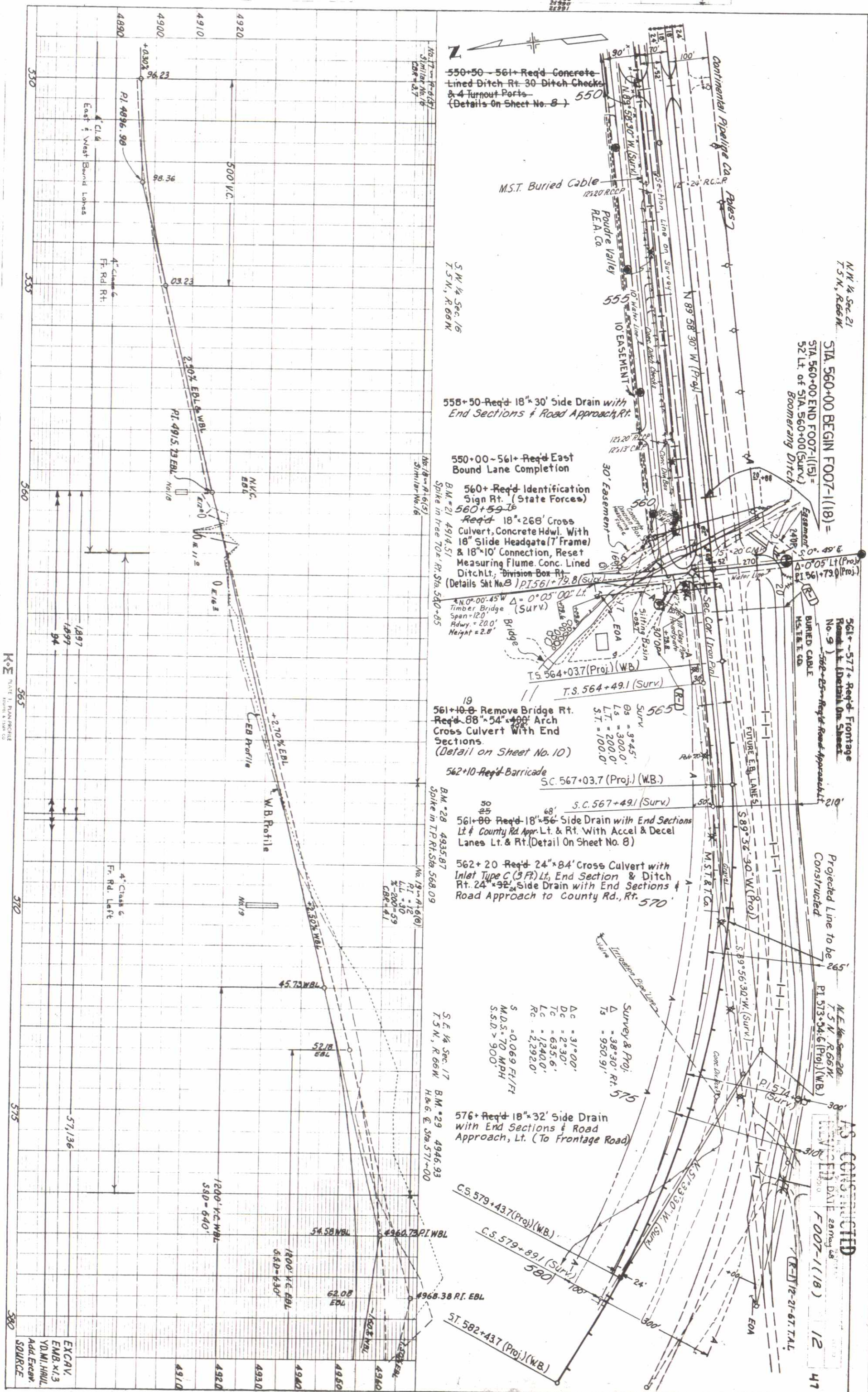
548+40 Relay 24"x80' C.S.P., Lt. Req'd Concrete Inlet Type C (H=5'-0"); Extend 24"x70' C.S.P. Lt. 14', 24"x42' Cross Culvert with End Sections, Rt. Under Frontage Road.

550+00~ Relay 18"x46' C.S.P. as Side Drain, Rt. Add End Sections. Req'd 18"x66' Median Drain with End Sections, Median Crossing & Approach From Frontage Rd. Rt. (Details on Sheets 8 & 9)



AS CONSTRUCTED
REVISED DATE 2/8/75

PROJ. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	FOOT-1(118)	11	47





SW 1/4 Sec. 17
T.5N., R.66W.

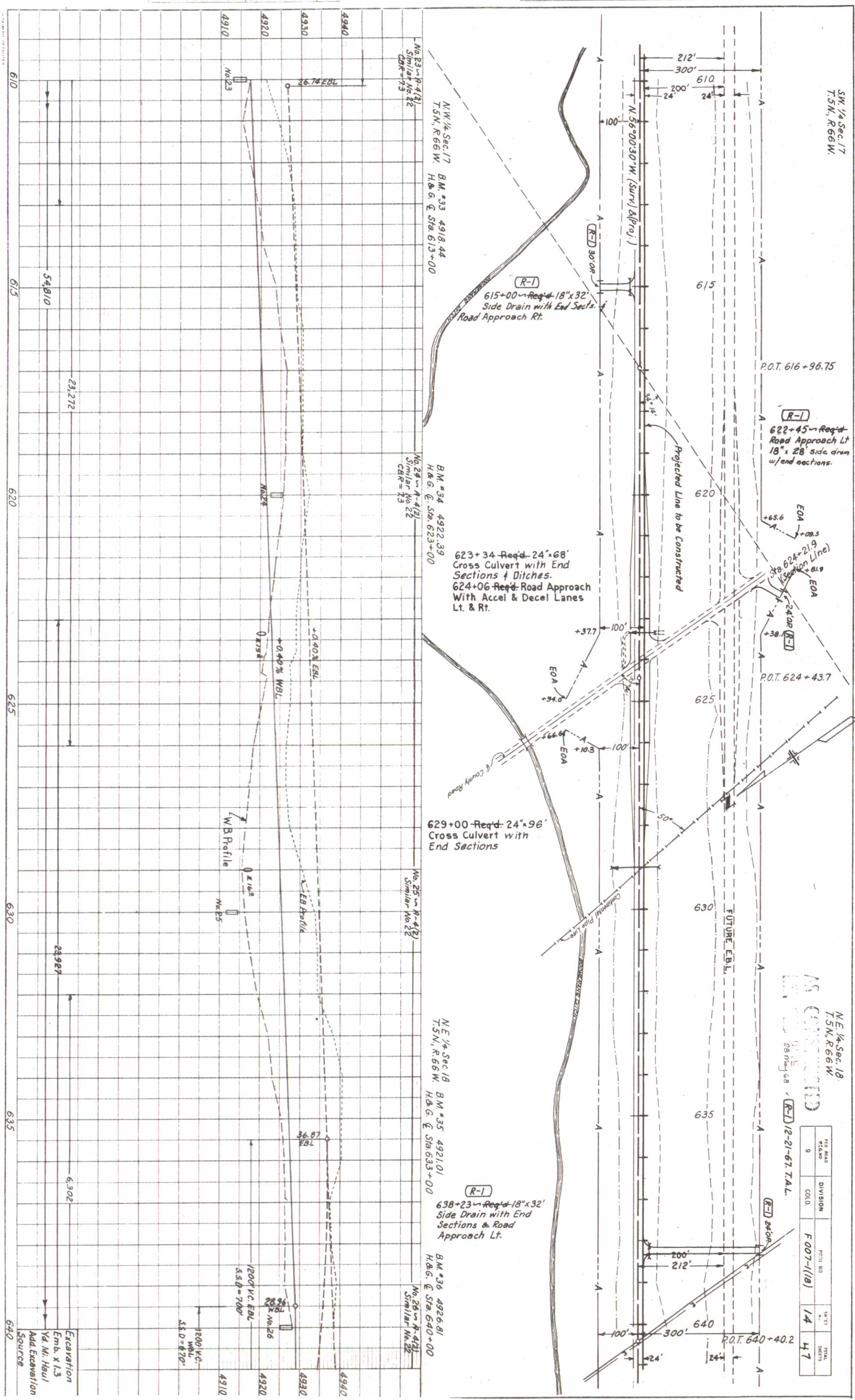
NE 1/4 Sec. 18
T.5N., R.66W.

AS COMPLETED
28 May 68
R-1/12-21-67 T.A.L.

FED. ROAD DIST. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F007-1(18)	14	47

PLAN	NOTES
NOTE BOOK	ALIGNED & CHECKED
25988	AT OF WAY CHECKED
25991	

PPUR	DATE
25990	
STRUCTURE NOTAT AS CH NO	



Excavation
Emb. x 1.3
Yd. M. Haul
Add Excavation
Source

N.E. 1/4 Sec. 18
T.5N., R.66W.

P.O.T. 640+40.2

102' RCCP
650+ Req'd 18" x 30" Side
Drain with End Sections
& Road Approach, Lt. & Rt.

P.O.T. 650+31.9 96'
650+36 Req'd 58" x 36" x 100'
Arch Cross Culvert With End
Sections & Concrete Slope
& Ditch Paving Rt. & Lt. (Hwy 4)
(Detail on Sheets No. 8 & 10)

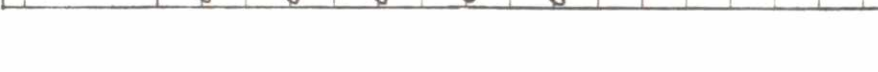
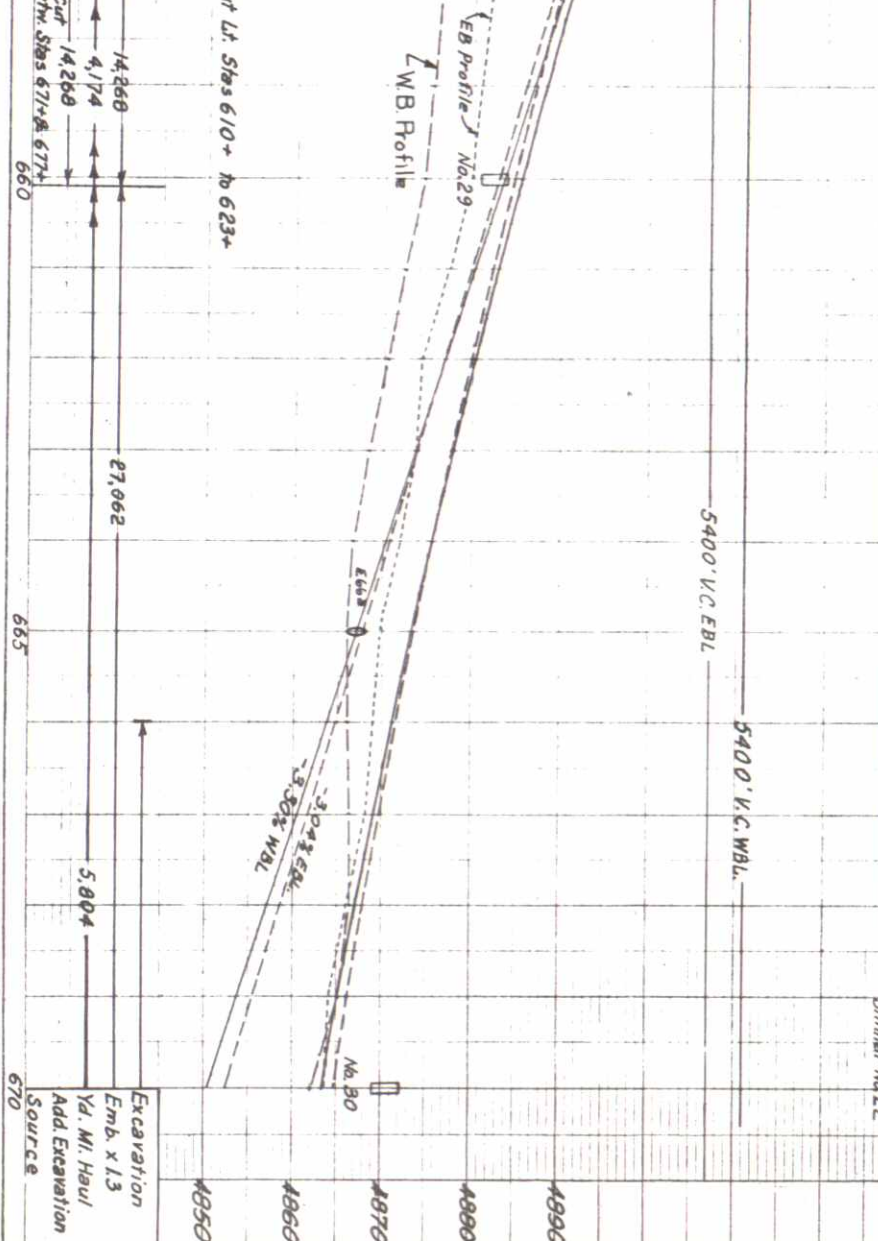
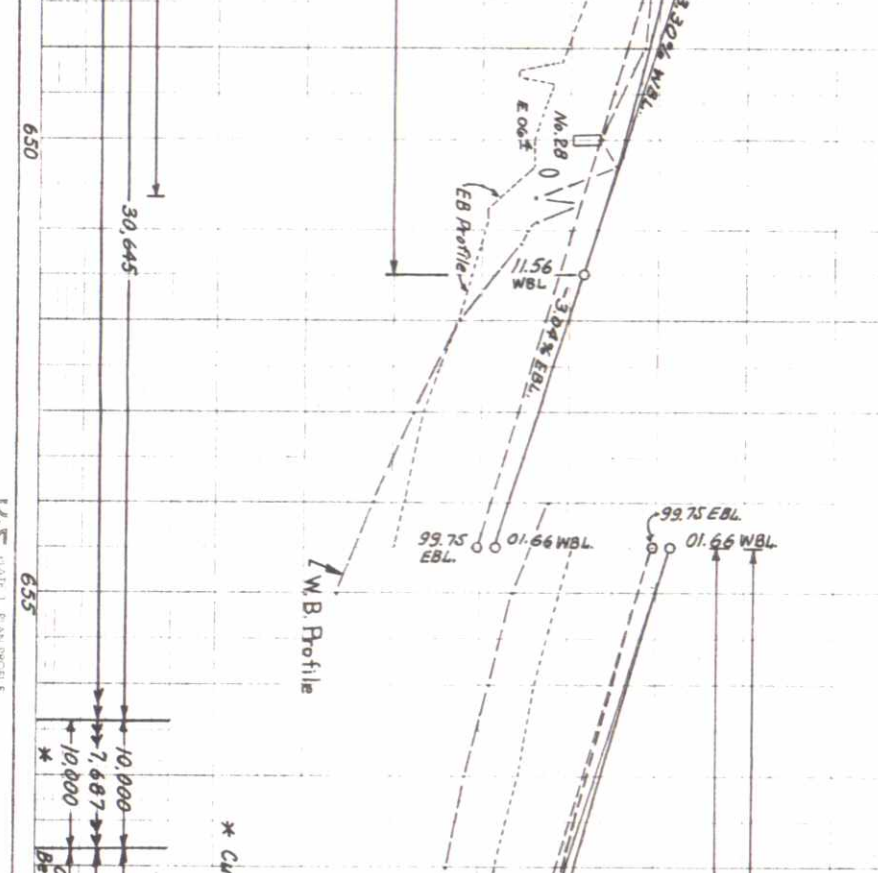
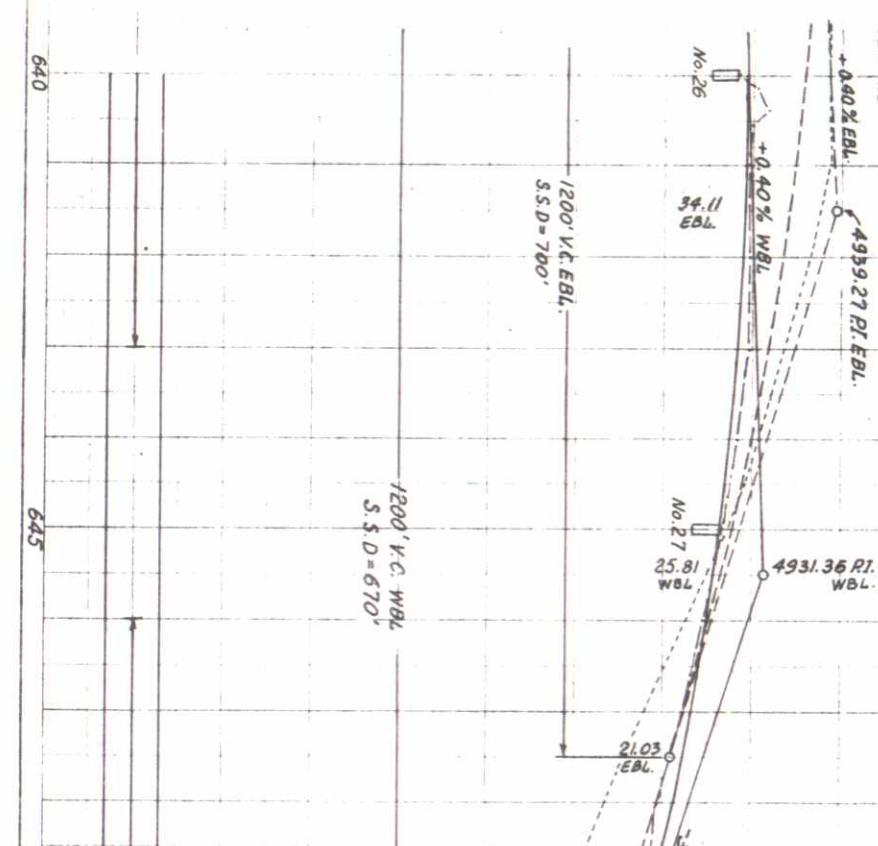
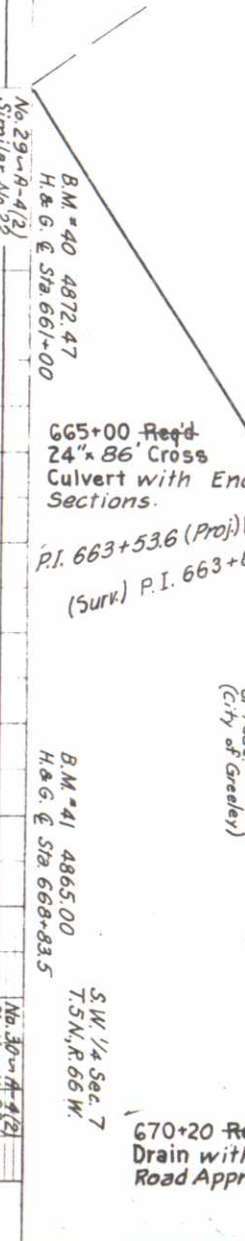
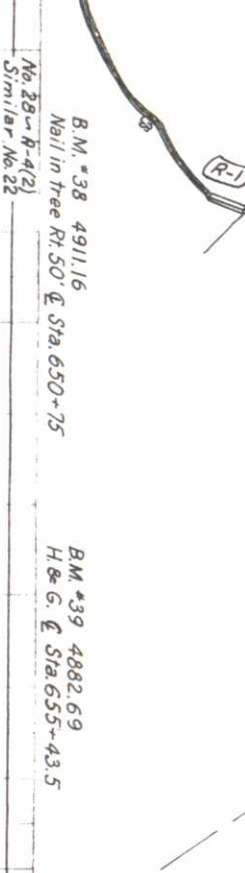
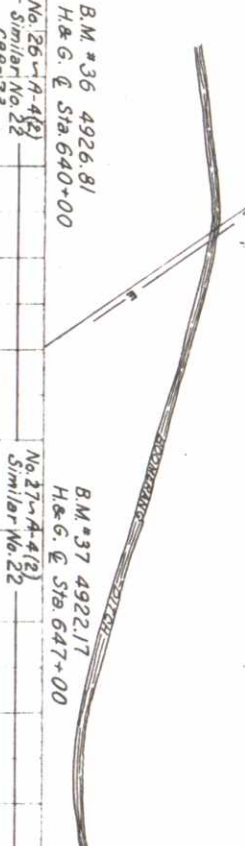
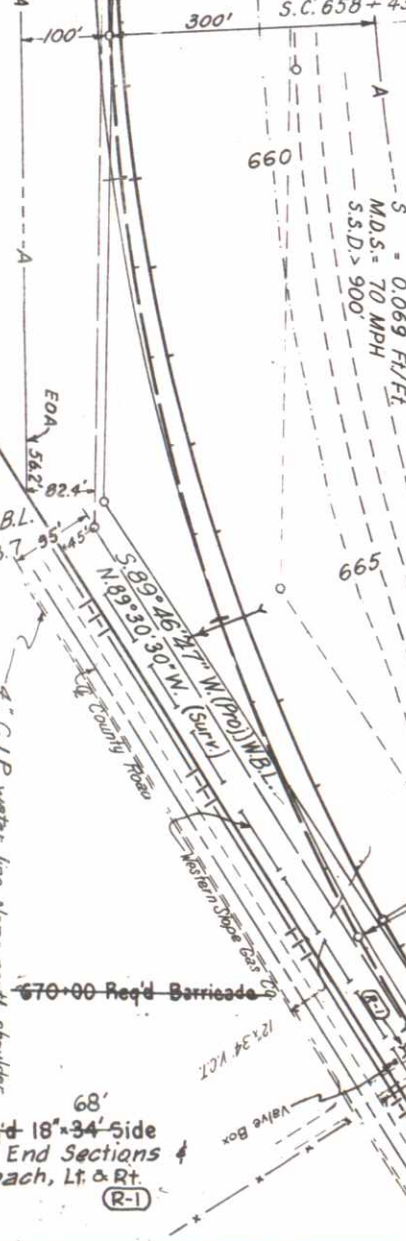
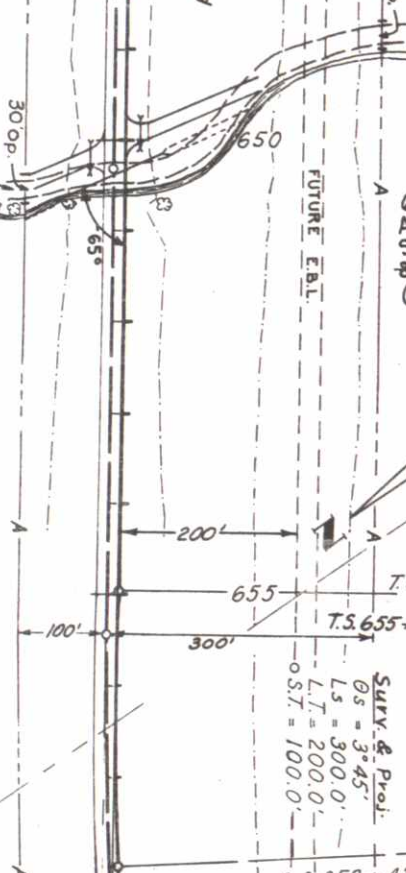
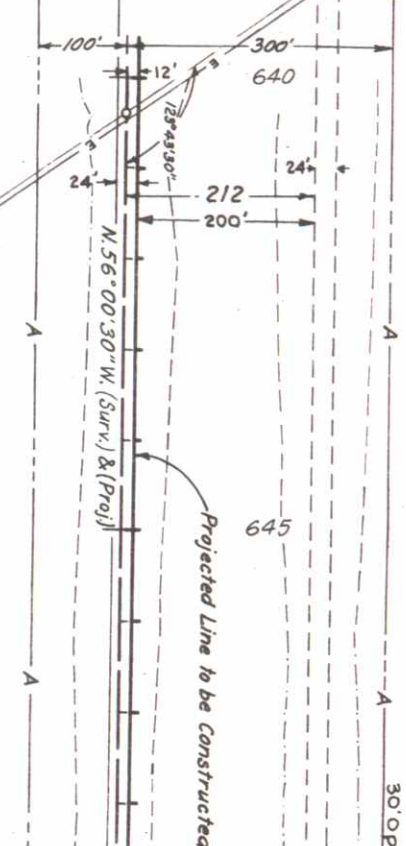
W.B.L. Proj.
Δs = 34' 2" 43"
Ts = 855.8'
Δc = 26' 42" 43"
Dc = 2' 30"
Tc = 544.2'
Lc = 1068.5'
Rc = 2292.0'
S = 0.006 F/H
MDS = 70 MPH
SSD > 900'

(R) T.A.L. 12-21-67
SURV.
Δ = 39' 30" Lt.
Ts = 840.2'
Δc = 26' 00"
Dc = 2' 30"
Tc = 529.1'
Lc = 1040.0'
Rc = 2,292.0'

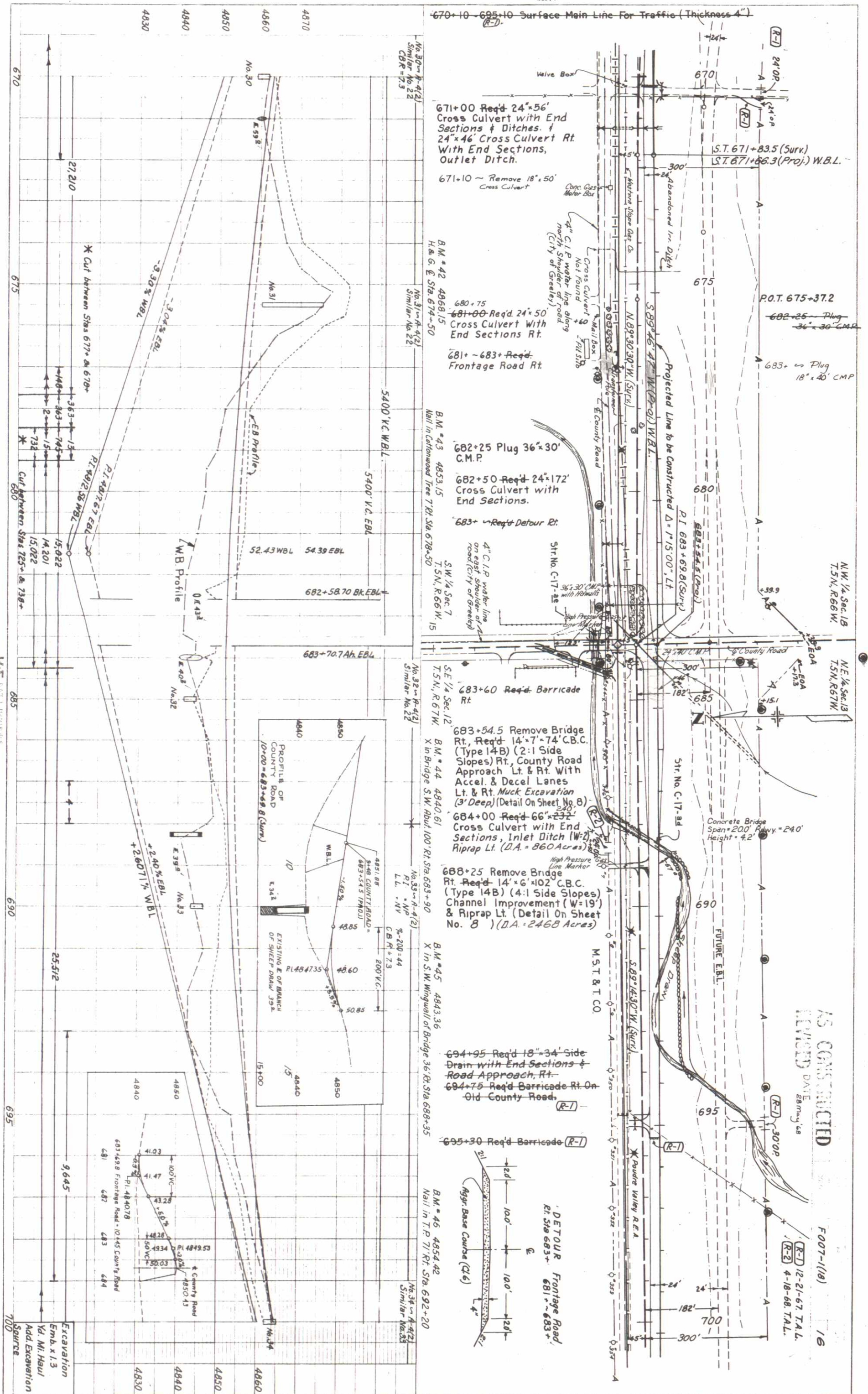
AS CONSTRUCTED
REVISED DATE 28 May 68

F007-1(18)

15



25988
25991
28974



45 COMPLETED
RECEIVED DATE
28 May '68

F007-1(18)

家

N.E. 1/4 Sec. 13
T. 5N., R. 67W.

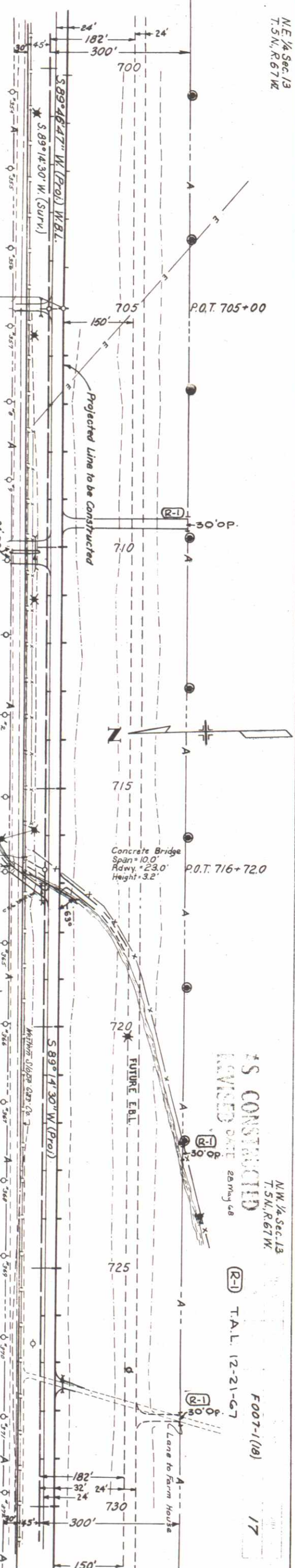
N.W. 1/4 Sec. 13
T. 5N., R. 67W.

NOT TO BE CONSTRUCTED
LAWYER DATE 28 May 68

(R-1) T.A.L. 12-21-67

F007-1(10)

17



P.I. 704+84.8 Bk. (Pro.) W.B.L. =
705+00.0 Ah. (Pro.) W.B.L. =
32' Lt. of 705+00 (Surv.)
 $\Delta = 0^{\circ} 32' 17''$ Lt.

SE 1/4 Sec. 12
T. 5N., R. 67W.
B.M. #47 4871.05
Nail in T.P. 70 Rt. Sta. 700+52

689+00
705+00 Req'd 18" x 32' Side
Drain with End Sections &
Road Approach, Rt.

(R-1)
709+70 Req'd Road Appr., Lt.

(R-1)
710+10 Req'd 18" x 50' Side
Drain with End Sections &
Road Approach, Rt.

B.M. #48 4883.87
Nail in T.P. 76 Rt. Sta. 710+25

717+00 Req'd Road
Approach Lt.

717+16 Req'd 58" x 36" x 102'
Arch Cross Culvert With
End Sections,
(Detail on Sheet No. 10)

(R-1) 40
717+20 Req'd 18" x 30' Side Drain
with End Sections & Road
Approach, Rt.

S.W. 1/4 Sec. 12
T. 5N., R. 67W.

B.M. #50 4916.02
Nail in T.P. 75 Rt. Sta. 726+50

727+50 Req'd 18" x 30' Side
Drain with End Sections &
Road Approach, Lt.

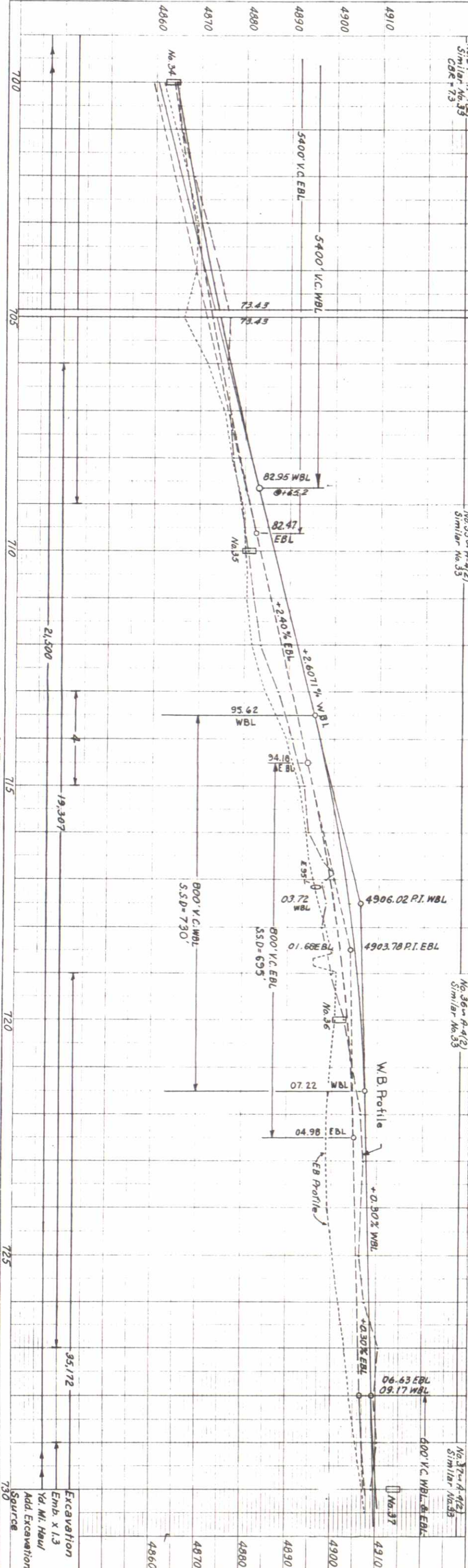
M.S.T. & T. Co.

No. 34-A-412
Similar No. 33
C.B.R. = 73

No. 35-A-412
Similar No. 33

No. 36-A-412
Similar No. 33

No. 37-A-412
Similar No. 33



Excavation
Emb. x 1.3
Yd. Ml. Haul
Add. Excavation
Source

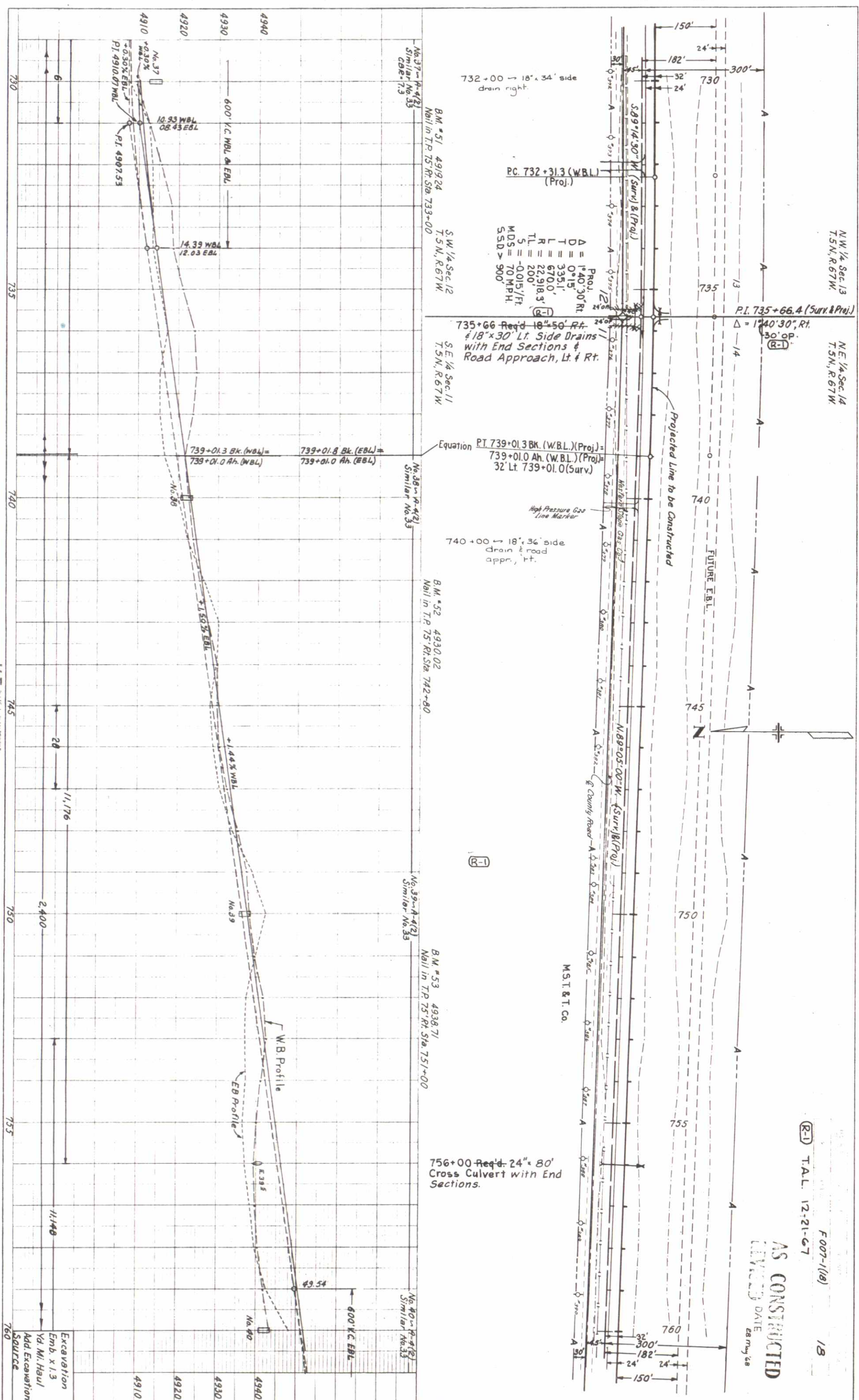
K&E
NOTE: 1. PLAN PROFILE
2. 10' HORIZ. SCALE
3. 1' VERT. SCALE

NW 1/4 Sec. 13
T.5N., R.67W.

NE 1/4 Sec. 14
T.5N., R.67W.

F 007-1(18) 18
R-1 T.A.L. 12-21-67

AS CONSTRUCTED
LIVED DATE
emmy 68



12-21-67 T.A.L.

AS CONSTRUCTED

F007-1(18)

19

DATE: 11/14/67
BY: T.S.N., R.67W.
NE 1/4 Sec. 15
T.5N., R.67W.
788+00 END F007-1(18) (R-1)
32' Lt 788+00 (Surv)
236' Lt 288+33.6 50057(3)

To LOVELAND
Interchange

788+29.6 (Prel.) =
288+33.6 50057(3)
PI 788+30.3 (Surv.)
Δ = 0° 32' 15" L
Gas Line Marker

512.287+56.6 on
50057(3)

788+ Req'd. Identification
Sign, Lt.
(State Forces)

US S. Triangulation Station
"Leonard" 1' Underground

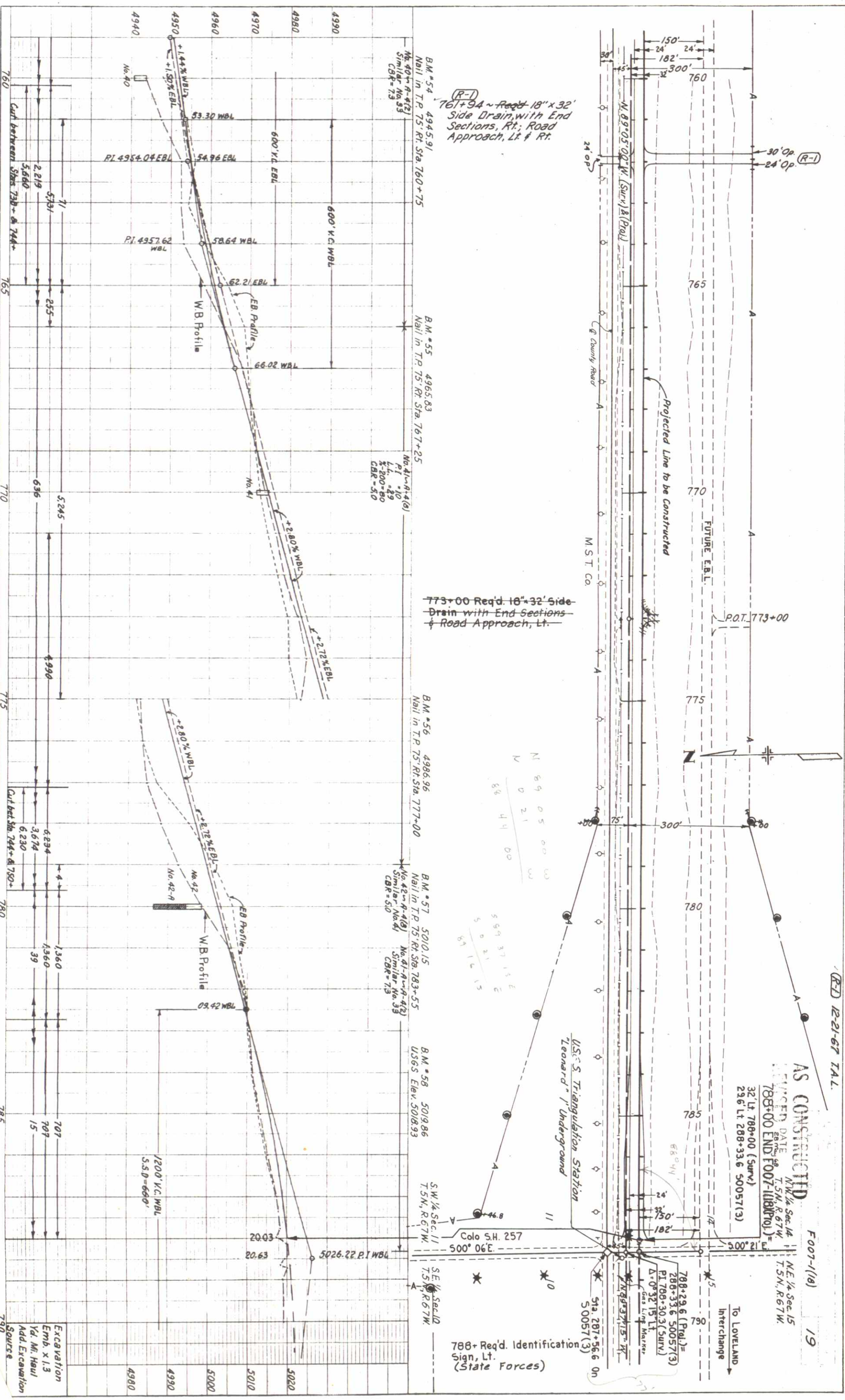
Colo. S.H. 257
500° 06'E

S.W. 1/4 Sec. 11
T.5N., R.67W.
S.E. 1/4 Sec. 10
T.5N., R.67W.

N 89° 05' 00" W
D 0 21 15 E
86 44 60
589 37 15 E
50 21 15
81 16 15

773+00 Req'd. 18" x 32' Side
Drain with End Sections
& Road Approach, Lt.

(R-1)
767+94 ~ Req'd. 18" x 32'
Side Drain with End
Sections, Rt.; Road
Approach, Lt. & Rt.



PLAN
25991
26426
28632

26426

