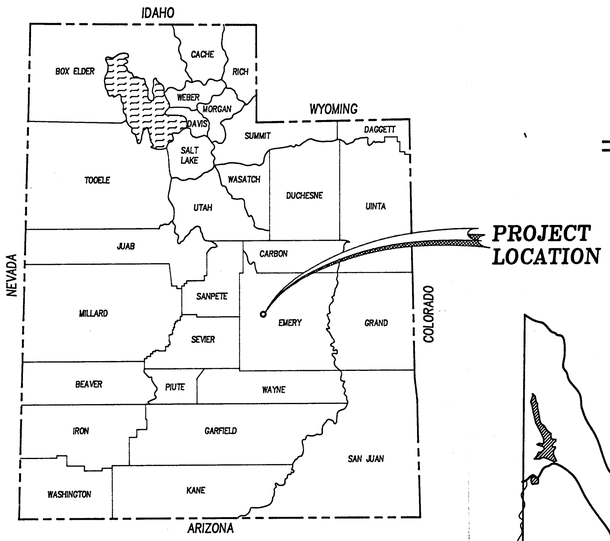
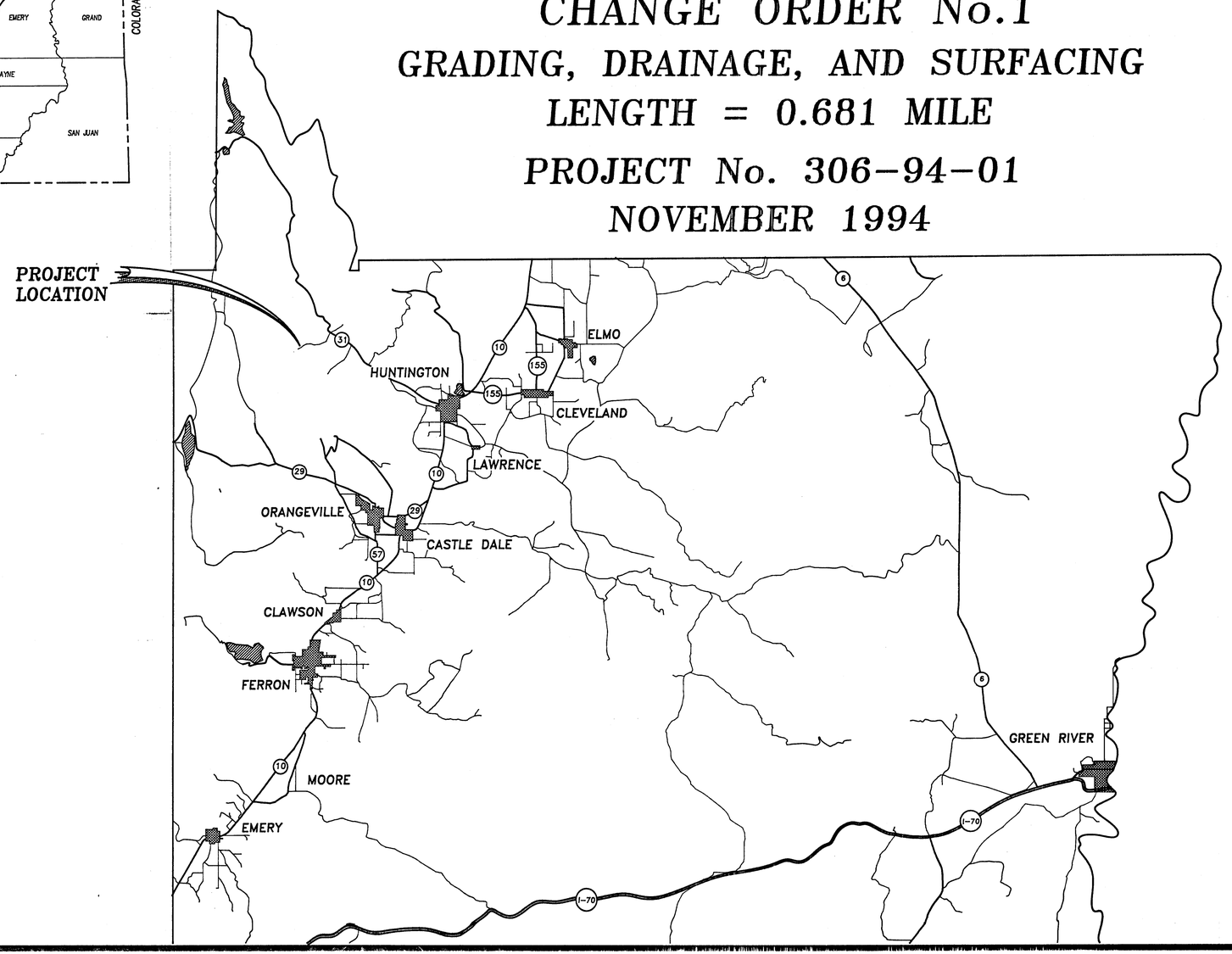
EMERY COUNTY
SPECIAL SERVICE DISTRICT No. 1

RILDA CANYON ROAD IMPROVEMENT PROJECT CHANGE ORDER No.1

GRADING, DRAINAGE, AND SURFACING
LENGTH = 0.681 MILE

PROJECT No. 306-94-01
NOVEMBER 1994





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SHEET	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS
3	SUMMARY SHEET
4	PLAN AND PROFILE SHEET 1
5	PLAN AND PROFILE SHEET 2

STANDARD DRAWINGS		
SHEET	DESCRIPTION	DATE
110	CONVENTIONAL SIGNS AND SYMBOLS	12-06-74
605-1	FILL HEIGHTS FOR METAL PIPE (STEEL)	12-20-88
605-2	METAL CULVERT END SECTIONS	06-16-92
726-1	DELINEATION HARDWARE	03-06-91
726-2	DELINEATION APPLICATION	10-20-92
745-1	CONSTRUCTION SIGNING BARRICADES	08-08-91
745-60	HIGHWAY SIGNS OTHER THAN FREEWAY	09-07-82
745-60B	BREAKAWAY METAL POSTS TYPE I	07-16-84

RECOMMENDED FOR APPROVAL:

PROJECT ENGINEER — 11/94 DATE

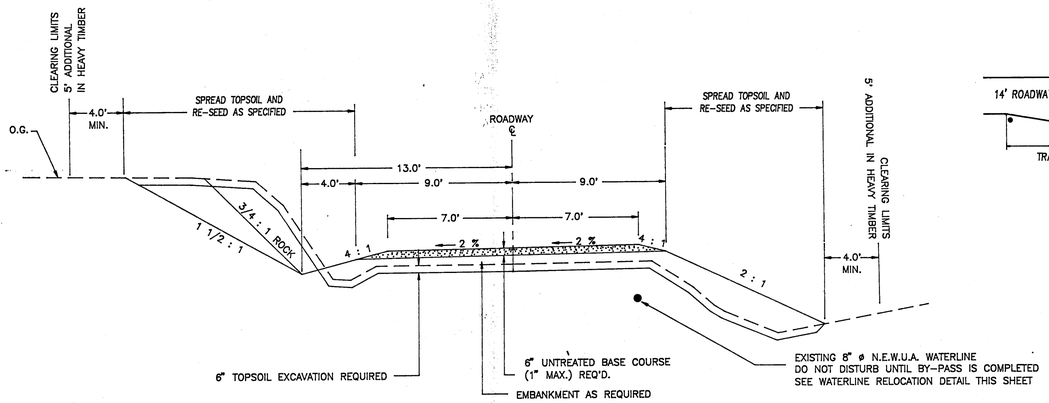
LICENSED PROFESSIONAL ENGINEER No. 146602 CRAIG E. JOHANSEN STATE OF UTAH

APPROVED:

E.C.S.S.D. No.1 CHAIRMAN — DATE

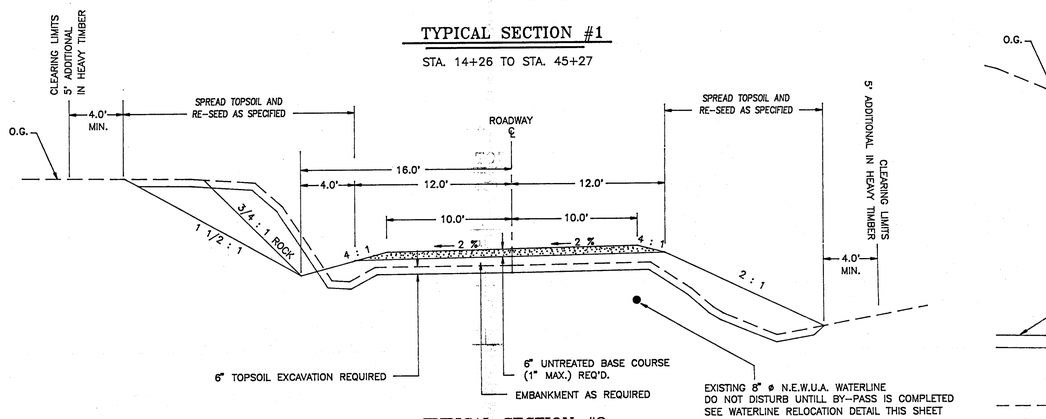
johansen & tuttle engineering inc.
BOX 487, CASTLE DALE, UTAH 84513 (801) 381-2523

FILE : ACAD12\UPRLDTS 1=1 17/OCT/94



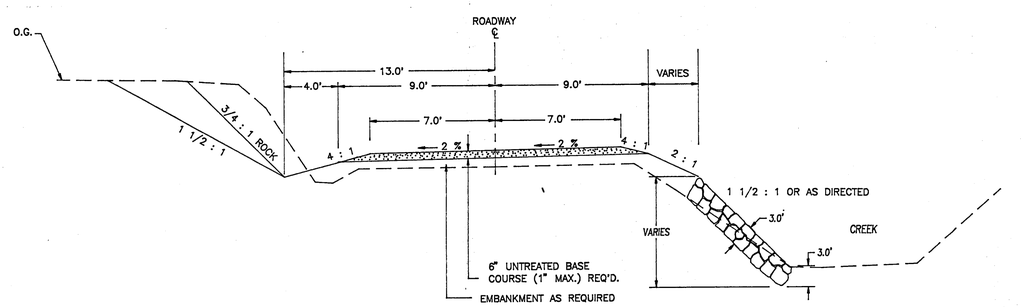
TYPICAL SECTION #1

STA. 14+26 TO STA. 45+27



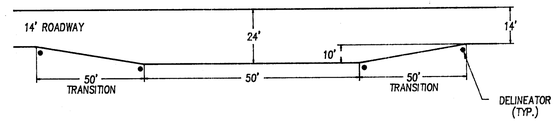
TYPICAL SECTION #2

STA. 45+27 TO STA. 50+56
AND TURN-AROUND ACCESS ROAD



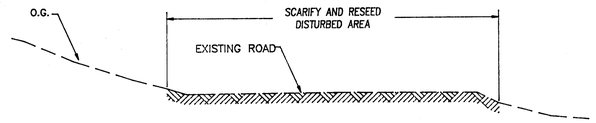
RIPRAP TOE PROTECTION

STA. 34+30 TO STA. 34+90

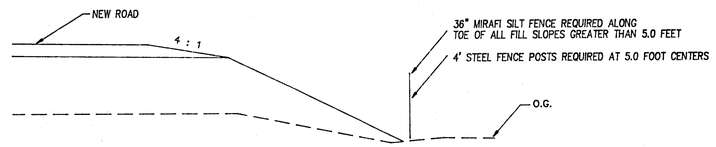


TURN-OUT DETAIL

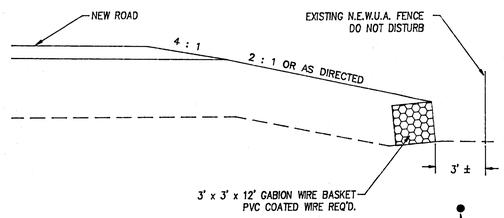
STA. 22+00, STA. 28+25, STA. 37+75



ROAD OBLITERATION DETAIL

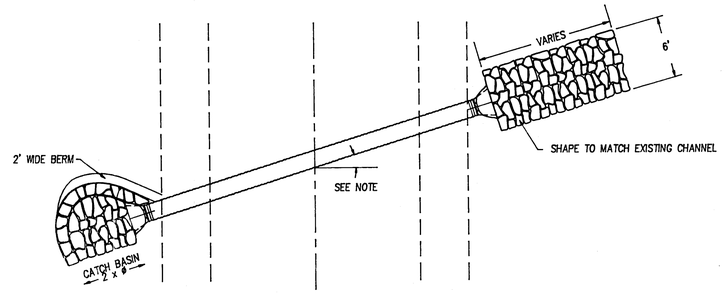


SILT FENCE DETAIL

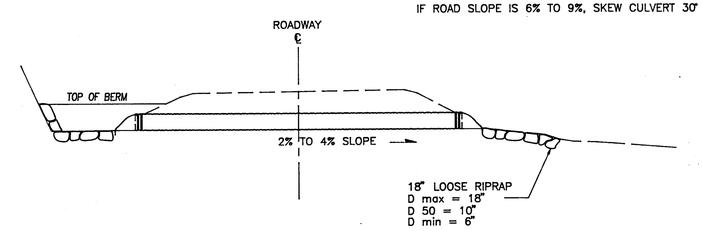


GABION RETAINING WALL

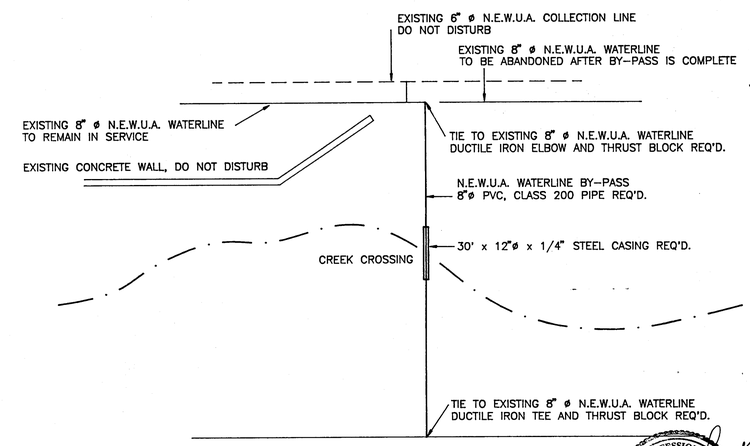
STATION 38+50 TO STATION 40+30



NOTE
IF ROAD SLOPE IS 4% TO 6%, SKEW CULVERT 15'
IF ROAD SLOPE IS 6% TO 9%, SKEW CULVERT 30'



CULVERT DETAIL



WATERLINE RELOCATION DETAIL

STATION 39+25

LICENSED PROFESSIONAL ENGINEER
No. 136602
CRAIG E. JOHANSEN
STATE OF UTAH

17/OCT/94	DESIGNED	HRT	4-94	CHECKED	CEJ	4-94	NO.	REVISIONS	BY
FILE : ACAD12 UPRLDTYP	DRAWN	LMS	4-94	CHECKED	HRT	4-94			
PLOT : 1=1	SURVEYED	EAL	4-94	CHECKED	HRT	4-94			
	R.O.W.	LMS	4-94	CHECKED	HRT	4-94			

RILDA CANYON ROAD
IMPROVEMENT PROJECT
CHANGE ORDER No.1

johansen & tuttle engineering inc.
BOX 487, CASTLE DALE, UTAH 84513 (801) 381-2523

TYPICAL SECTIONS

PROJECT NO. 306-94-01

SHEET NO. 2

SUMMARY OF ITEMS

ITEM	SECTION	DESCRIPTION	UNIT	QUANTITY
1	151	MOBILIZATION	LUMP	1
2	201	CLEARING AND GRUBBING	LUMP	1
3	203	OBLITERATE ROAD	LUMP	1
4	210	ROADWAY EXCAVATION	CU. YD.	9,000
5	301	UNTREATED BASE COURSE 1" MAX.	CU. YD.	1,460
6	520 S	GABION WIRE BASKET (PVC COATED)	CU. YD.	60
7	624 S	WATERLINE RELOCATION, 8"PVC., CLASS 200	LIN. FT.	150
8	634 S	SEEDING	ACRE	2.5
9	635 S	TOPSOIL, SALVAGE AND SPREADING	LUMP	1
10	636 S	SILT FENCE	LIN. FT.	1,150
11	810	TRAFFIC SIGN 30" x 30" TYPE A-2, METAL POST	EACH	2
12	811	DELINEATOR (TYPE 1)	EACH	22
13	901	24" ø CSP CULVERT (POLYMERIC COATED)	LIN. FT.	448
14	901	36" ø CSP CULVERT (POLYMERIC COATED)	LIN. FT.	80
15	901	42" ø CSP CULVERT (POLYMERIC COATED)	LIN. FT.	180
16	905	24" ø METAL END SECTION (ASPHALT COATED)	EACH	18
17	905	36" ø METAL END SECTION (ASPHALT COATED)	EACH	2
18	905	42" ø METAL END SECTION (ASPHALT COATED)	EACH	2
19	920	LOOSE RIPRAP Dmax = 36"	CU. YD.	300
20	920	LOOSE RIPRAP Dmax = 18"	CU. YD.	50

MISCELLANEOUS

DESCRIPTION	UNIT	QUANTITY	USE	C.S.REF.	REMARKS
MOBILIZATION	LUMP		1		
CLEARING AND GRUBBING	LUMP		1		
OBLITERATE ROAD	LUMP		1		
GABION WIRE BASKET (PVC COATED)	CU. YD.		60		
WATERLINE RELOCATION, 8"PVC., CLASS 200	LIN. FT.		150		
SEEDING	ACRE		2.5		
TOPSOIL, SALVAGE AND SPREADING	LUMP		1		
SILT FENCE	LIN. FT.		1,150		
TRAFFIC SIGN 30" x 30" TYPE A-2, METAL POST	EACH		2		
DELINEATOR (TYPE 1)	EACH		22		
LOOSE RIPRAP Dmax = 36"	CU. YD.		300		
LOOSE RIPRAP Dmax = 18"	CU. YD.		50		

EARTHWORK

DESCRIPTION	UNIT	QUANTITY	USE	C.S.REF.	REMARKS
ROADWAY EXCAVATION	CU. YD.		9,000		
UNTREATED BASE COURSE 1" MAX.	CU. YD.		1,460		

DRAINAGE SUMMARY

LOCATION	24"	36"	42"	M.E.S.	REMARKS
17+50	30			2	SIDE DRAIN
19+18			180	2	
22+75	60			2	
25+60	42			2	
27+80	56			2	
29+70	52			2	
30+30	50			2	
32+00	42			2	
34+60		80		2	
36+15	52			2	
42+10	64			2	
TOTAL LENGTH	448	80	180		
METAL END SECTIONS	18	2	2		

LICENSED PROFESSIONAL ENGINEER No. 146002 CRAIG E. JOHANSEN STATE OF UTAH 11/94

17/OCT/94	DESIGNED	HRT	4-94	CHECKED	CEJ	4-94	NO.	REVISIONS	BY
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PLOT : 1=1	SURVEYED	EAL	4-94	CHECKED	HRT	4-94			
	R.O.W.	LMS	4-94	CHECKED	HRT	4-94			

RILDA CANYON ROAD
IMPROVEMENT PROJECT
CHANGE ORDER No. 1

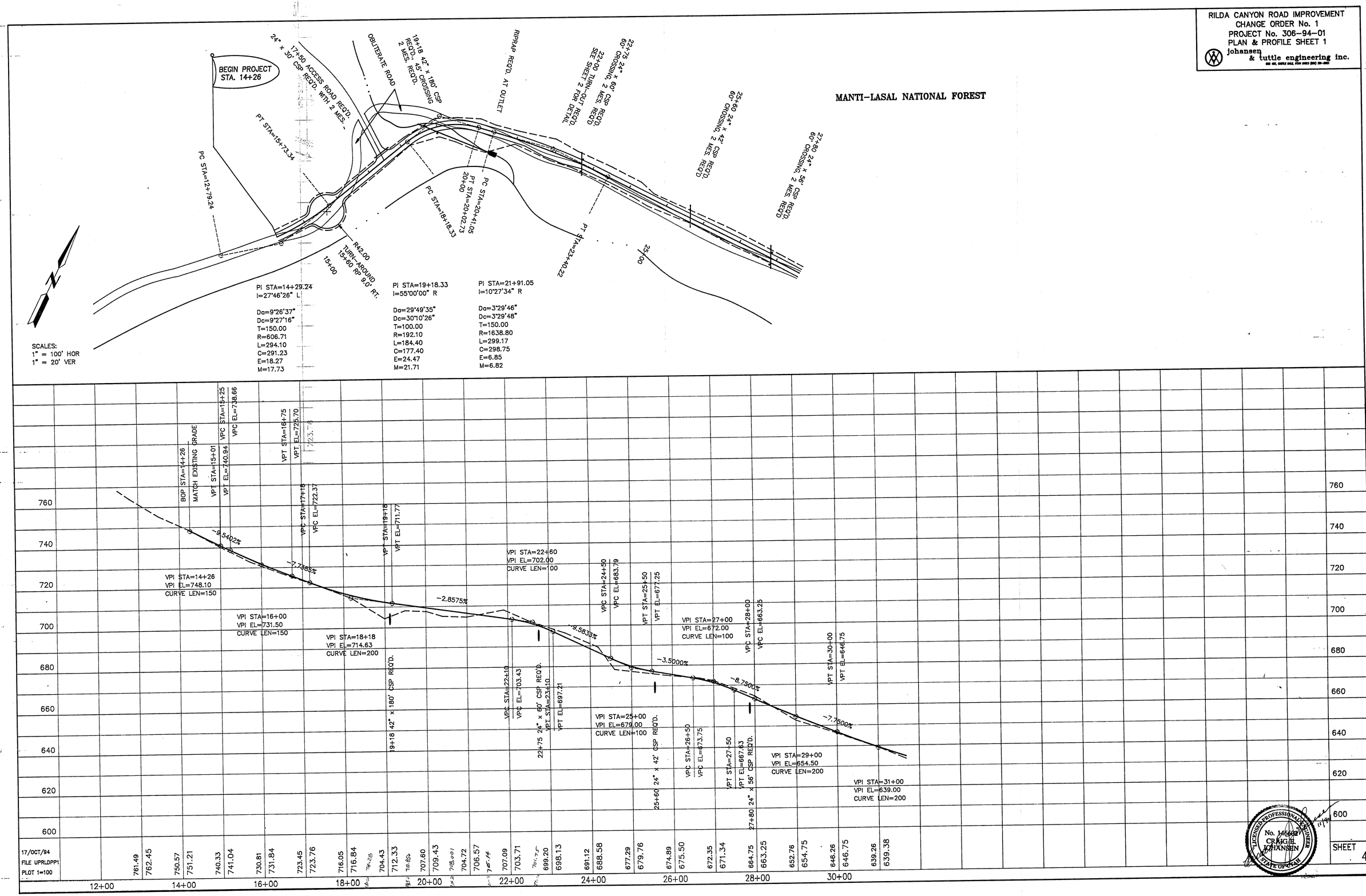
johansen & tuttle engineering inc.
BOX 487, CASTLE DALE, UTAH 84513 (801) 381-2523

SUMMARY SHEET

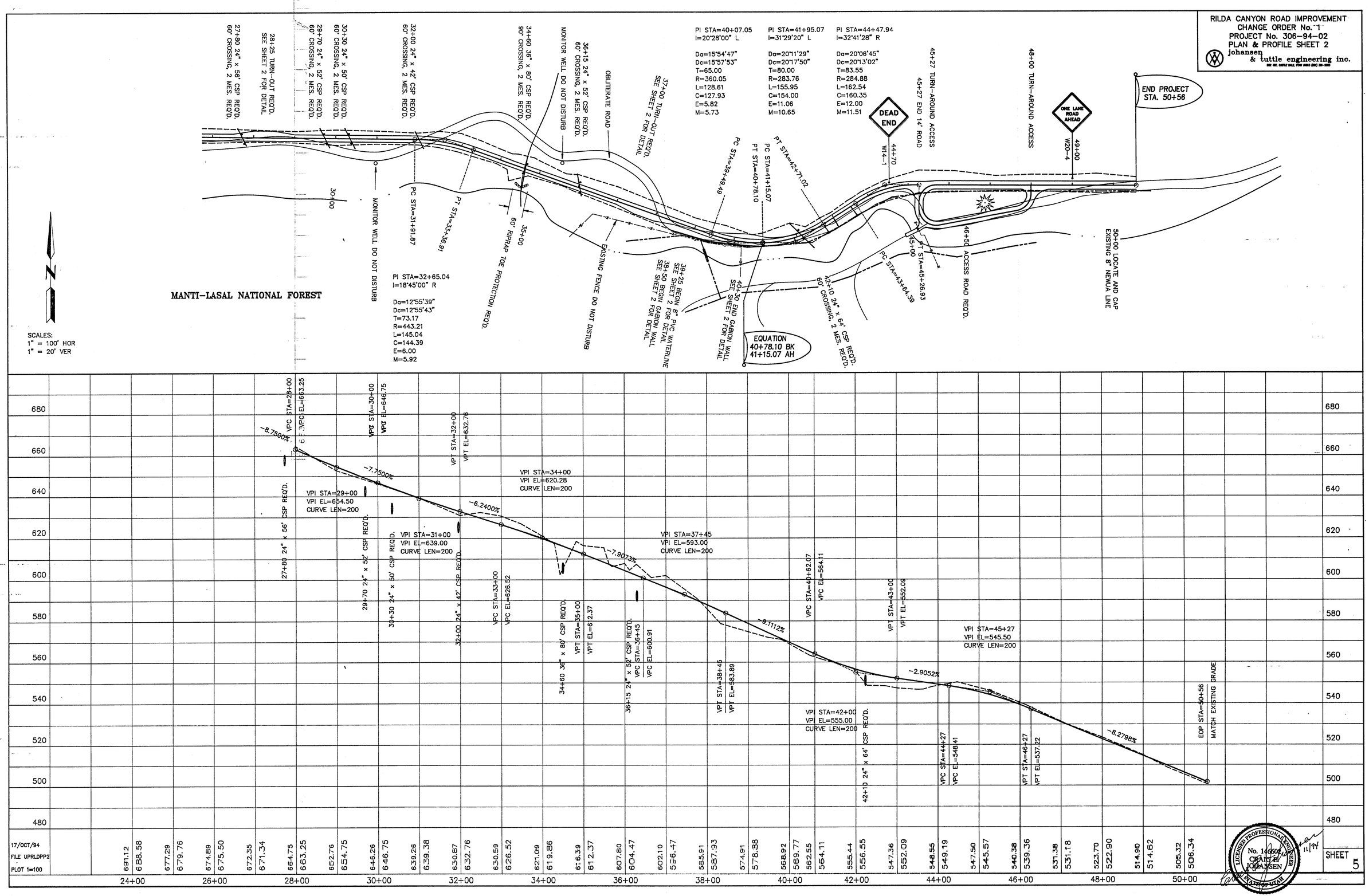
PROJECT NO. 306-94-01

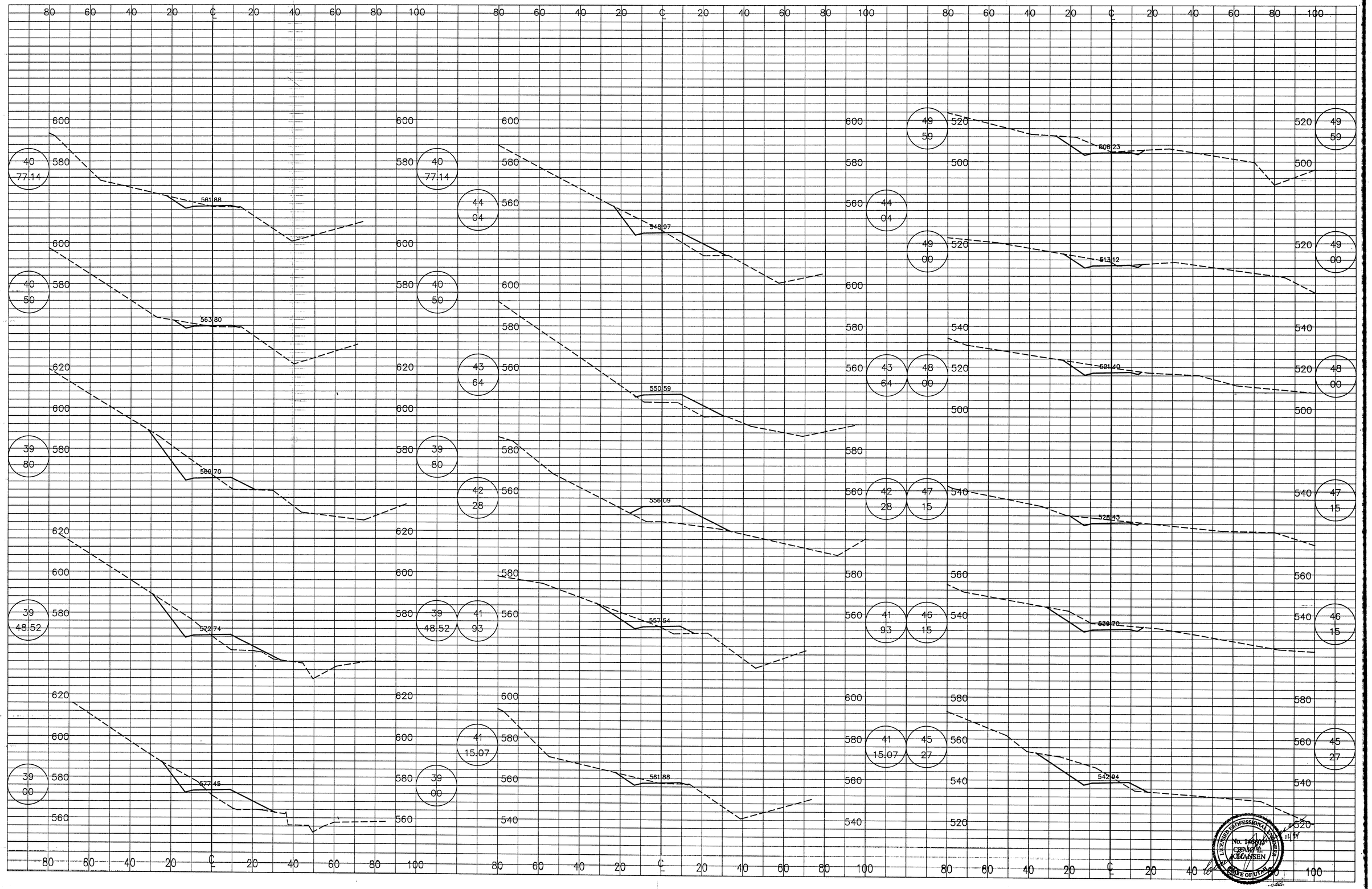
SHEET NO. 3

RILDA CANYON ROAD IMPROVEMENT
CHANGE ORDER No. 1
PROJECT No. 306-94-01
PLAN & PROFILE SHEET 1
johansen & tuttle engineering inc.



RILDA CANYON ROAD IMPROVEMENT
CHANGE ORDER No. 1
PROJECT No. 306-94-02
PLAN & PROFILE SHEET 2
johansen & tuttle engineering inc.





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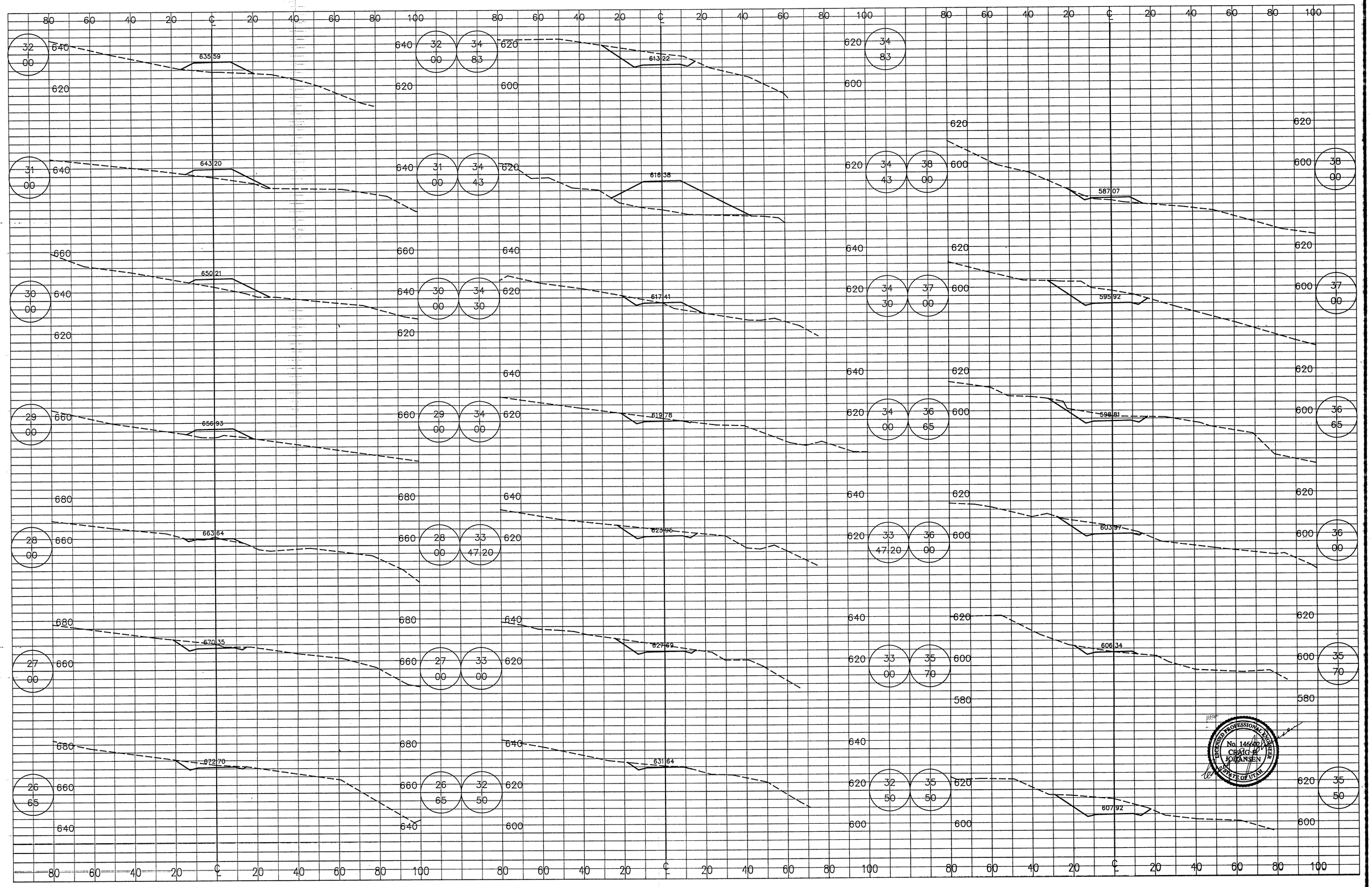
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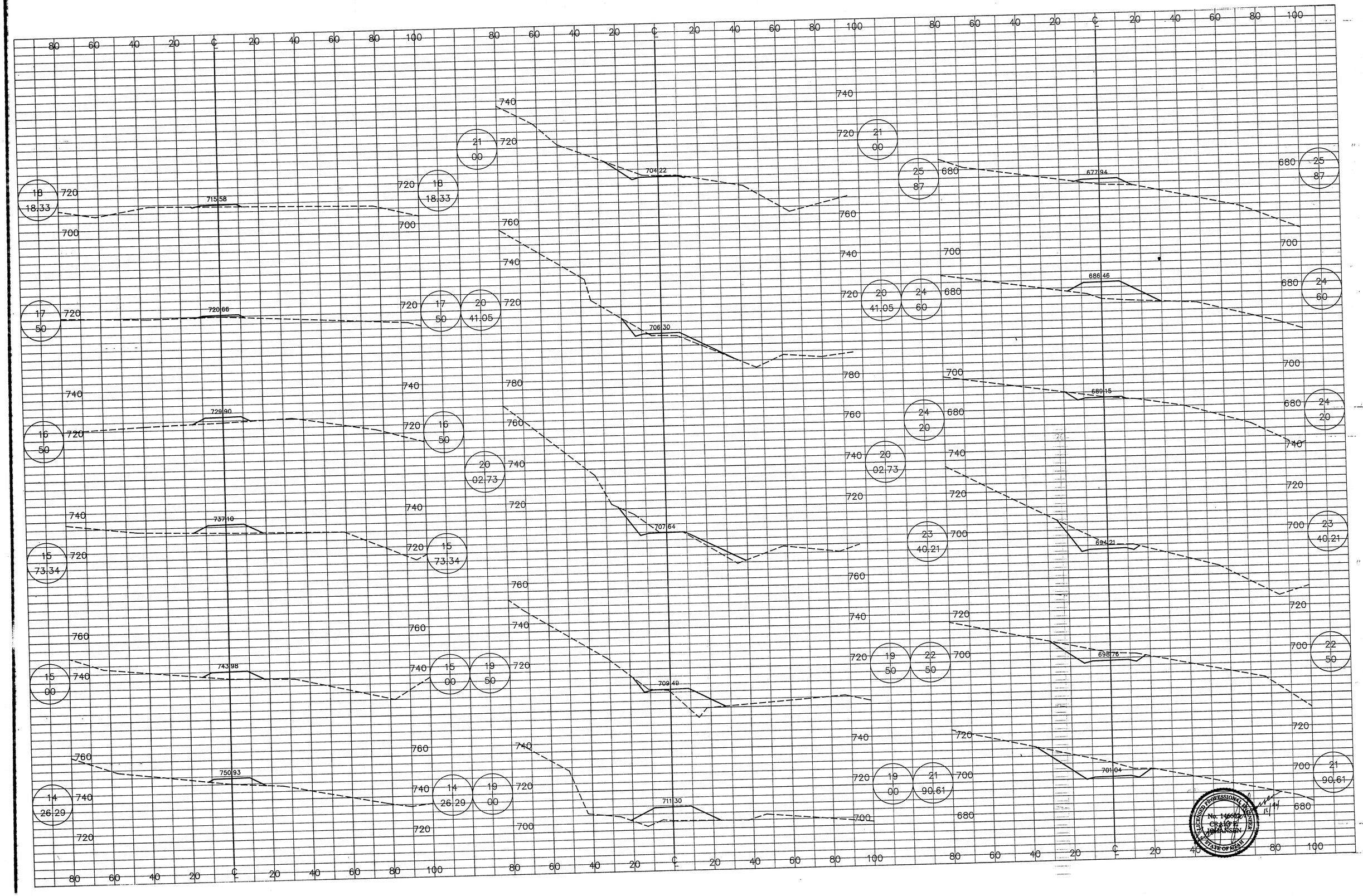
LICENSED PROFESSIONAL ENGINEER
No. 146600
CRAIG H. JOHANSEN
STATE OF UTAH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LICENSED PROFESSIONAL ENGINEER
No. 146682
CRAIG E. JOHNSON
STATE OF UTAH