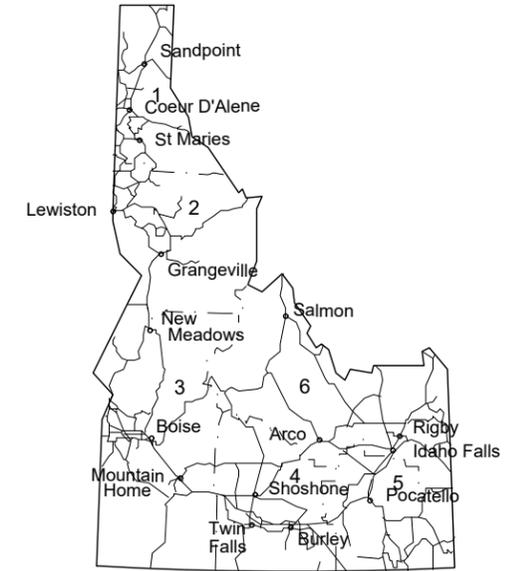


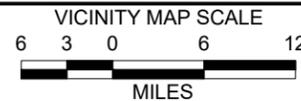
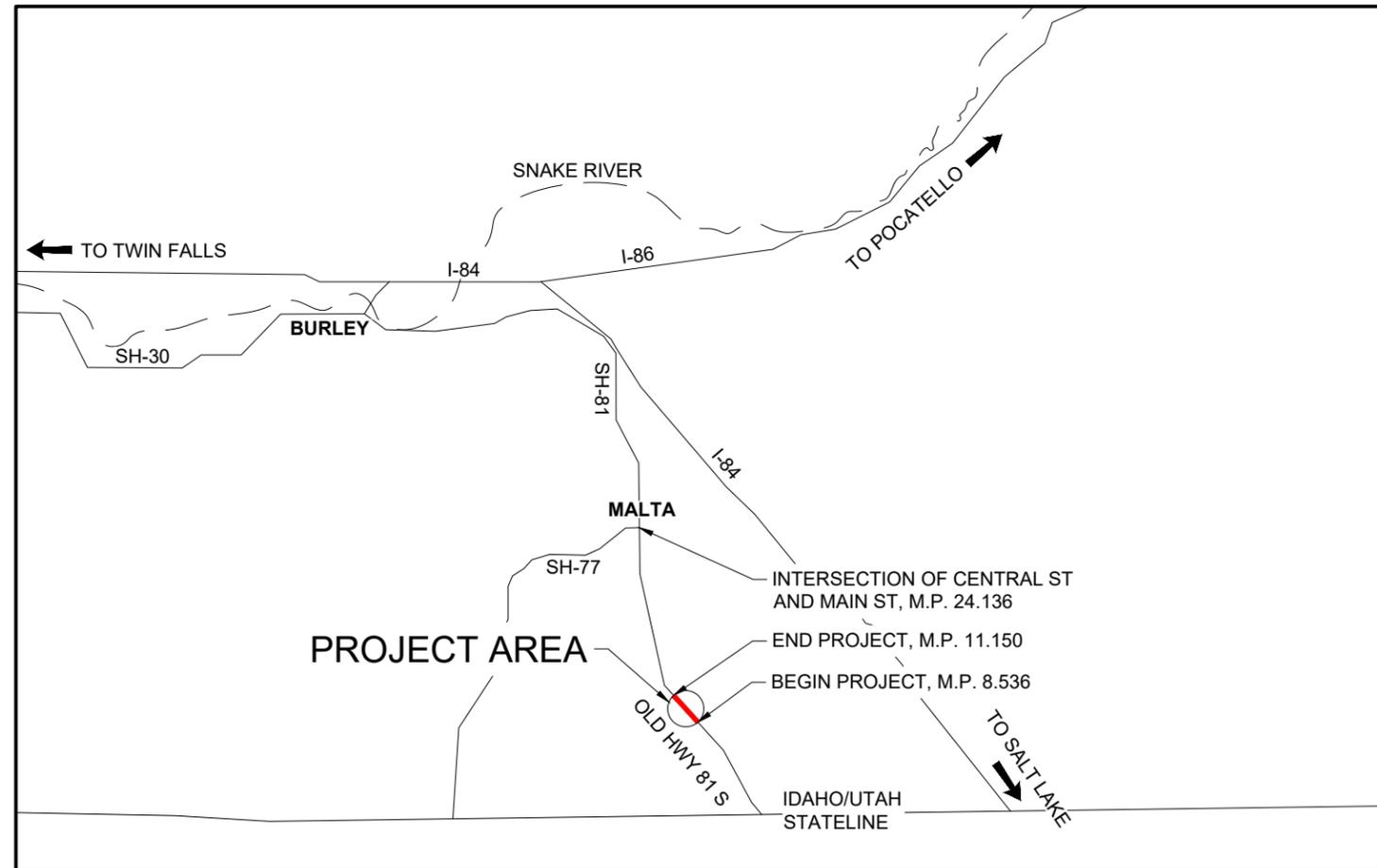
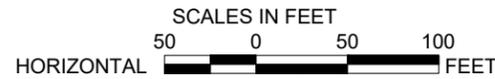
IDAHO TRANSPORTATION DEPARTMENT

PLAN OF PROPOSED STC-2847, OLD HWY 81 S FEDERAL AID PROJECT NO. A022(434) KEY NO. 22434 RAFT RIVER HIGHWAY DISTRICT OCTOBER 2025

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PROJECT CLEARANCE SUMMARY
3	SURVEY CONTROL - MONUMENT PRESERVATION
4	TYPICAL SECTIONS
5	ROADWAY DETAILS
6	ROADWAY SUMMARY
7	CULVERT PIPE SUMMARY
8 - 13	PLAN & PLAN
14 - 17	CULVERT PLAN & PROFILE
18	TEMPORARY TRAFFIC CONTROL SUMMARY
19	TEMPORARY TRAFFIC CONTROL PLAN
1-7	ITD STANDARD DRAWINGS



KEY NUMBER 22434
 STC-2847, OLD HWY 81 S
 STA. 16+00.00 TO STA. 154+00.00
 M.P. 8.536 TO M.P. 11.150
 SEGMENT CODE 005110



DESIGN DESIGNATION

ADT 2025	933
ADT 2047	1143
DHV 2025	141
DHV 2047	173
D	60/40
V	55 MPH
TRUCKS:	
ADT 2025	262
ADT 2047	320
DHV 2025	40
DHV 2047	49

REVISIONS			
NO.	DATE	BY	DESCRIPTION

THE DIMENSIONS SHOWN ON THE PLANS SHALL BE ATTAINED WITHIN LIMITS OF PRECISION THAT GOOD CONSTRUCTION PRACTICES WILL PERMIT

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME
22434 TITL 001

DRAWING DATE:
8/11/25

IDAHO
 TRANSPORTATION DEPARTMENT

KELLER ASSOCIATES

PROJECT NO.
A022(434)

TITLE SHEET
STC-2847, OLD HWY 81 S

English

COUNTY
CASSIA

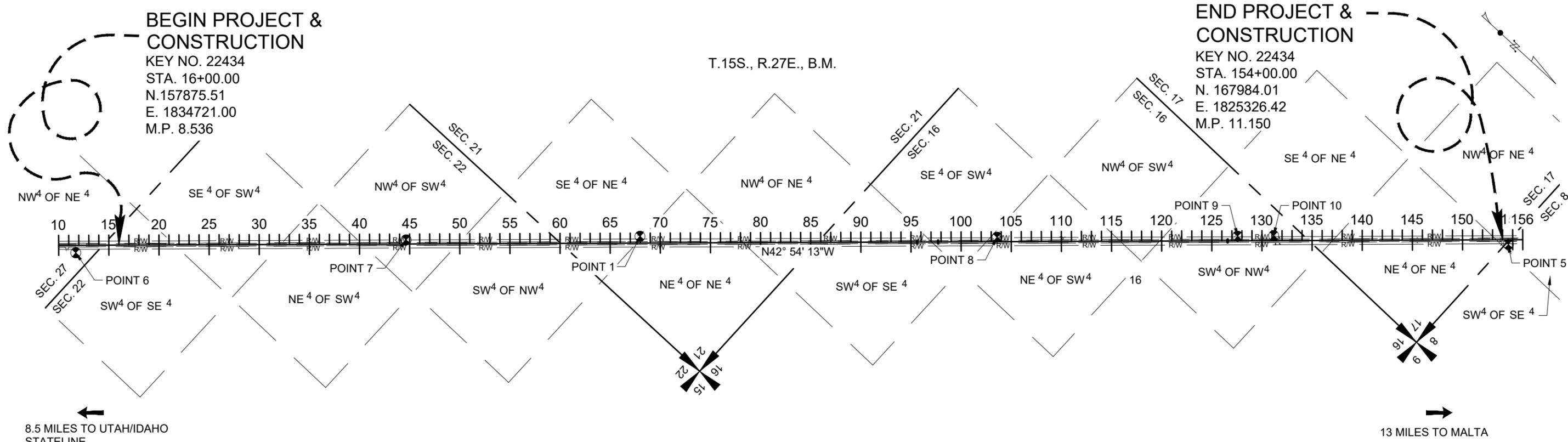
KEY NUMBER
22434

SHEET 1 OF 19

Jailyn
 Approved for Advertising
 11/19/25
 Date Approved

PROJECT CONTROL AND MONUMENT PRESERVATION

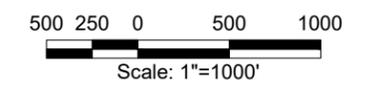
POINT NO.	STATION	OFFSET		NORTHING	EASTING	ELEVATION	DESCRIPTION OF MONUMENT	ACTION TO BE TAKEN BY CONTRACTOR
1	67+97.43	67.24	L	161636.85	1831133.51	4820.78	5/8" IRON PIN, PROJECT CONTROL	RETAIN AND PROTECT
5	154+56.88	46.47	R	168057.31	1825321.74	4746.59	1/2" IRON ROD, PROJECT CONTROL	RETAIN AND PROTECT
6	11+70.43	74.93	R	157611.85	1835068.33	4902.05	1/2" IRON ROD, PROJECT CONTROL	RETAIN AND PROTECT
7	44+65.19	41.32	L	159946.12	1832740.21	4849.03	CONCRETE PILLAR, FAP PROJECT MARKERS	RETAIN AND PROTECT
8	103+58.27	44.06	L	164260.95	1828726.38	4786.15	CONCRETE PILLAR, FAP PROJECT MARKERS	RETAIN AND PROTECT
9	127+57.40	45.04	L	166017.64	1827092.42	4761.34	CONCRETE PILLAR, FAP PROJECT MARKERS	RETAIN AND PROTECT
10	131+17.55	49.28	L	166278.57	1826844.14	4758.33	RIGHT-OF-WAY MONUMENT STA 2554+01 OFF 74.1	RETAIN AND PROTECT



BEGIN PROJECT & CONSTRUCTION
 KEY NO. 22434
 STA. 16+00.00
 N. 157875.51
 E. 1834721.00
 M.P. 8.536

END PROJECT & CONSTRUCTION
 KEY NO. 22434
 STA. 154+00.00
 N. 167984.01
 E. 1825326.42
 M.P. 11.150

BASIS OF DATUM:
 THE HORIZONTAL DATUM FOR THIS PROJECT IS BASED UPON NAD1983(2011) IDAHO STATE PLANE COORDINATE SYSTEM (CENTRAL ZONE) DERIVED FROM NATIONAL GEODETIC SURVEY, ONLINE POSITIONING USER SERVICE (OPUS) ABOUT KELLER POINT NO. 1. ALL BEARING ARE AT GRID AZIMUTH, ANY DISTANCES SHOWN REPRESENT GROUND VALUES. IDAHO STATE PLANE COORDINATE SYSTEM (CENTRAL ZONE) WERE MODIFIED USING A COMBINED SCALE FACTOR OF 0.99976064 CALCULATED AT KELLER POINT NO. 1.
 THE VERTICAL DATUM FOR THIS PROJECT IS NAVD88 GEOID18, BASED ON THE NATIONAL GEODETIC SURVEY (OPUS) ABOUT KELLER POINT NO. 1.



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY CADD FILE NAME 22434_SURV_001 DRAWING DATE: 8/8/25
DESIGN CHECKED E. HULSLANDER	
DETAILED P. TARRICONE	
DRAWING CHECKED N. CLEAVER	

IDAHO TRANSPORTATION DEPARTMENT

KELLER ASSOCIATES

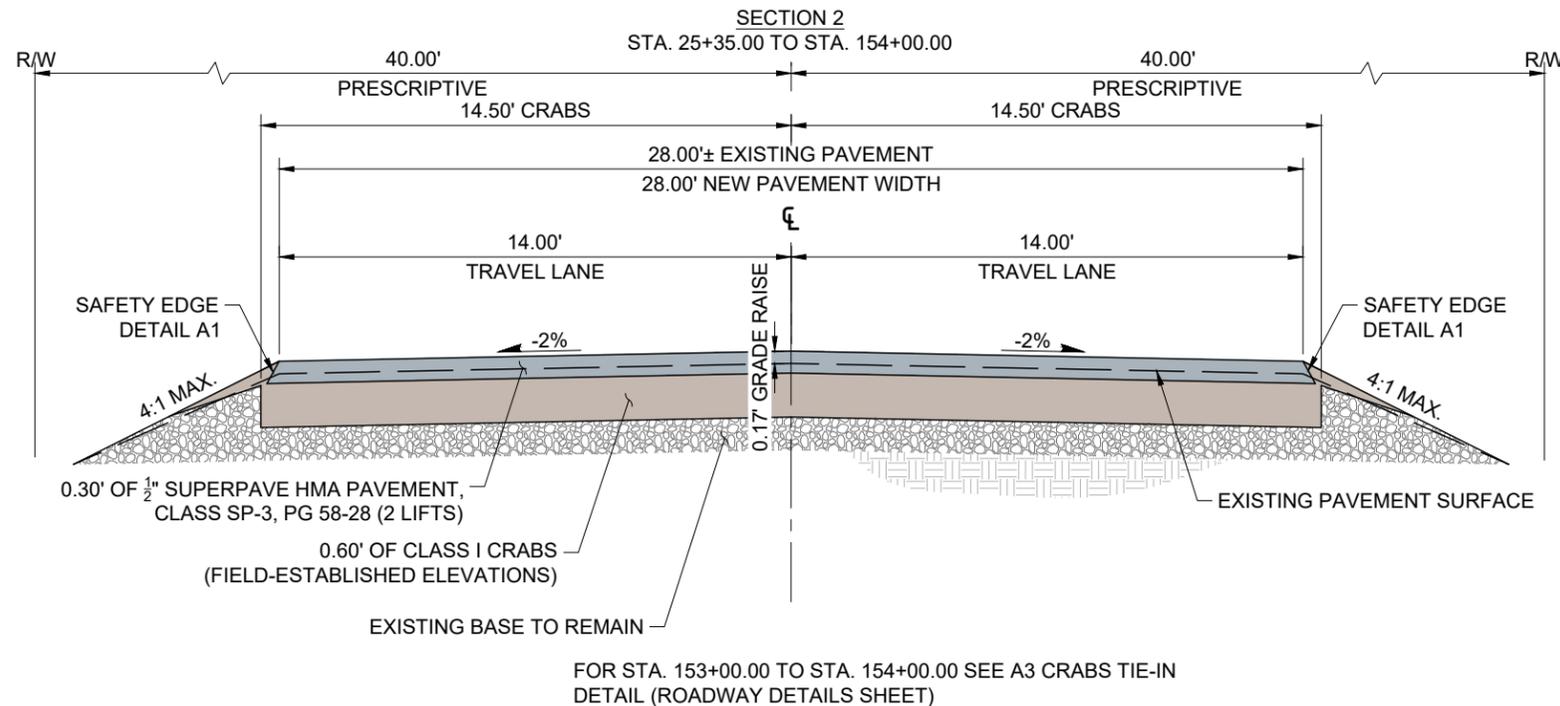
PROJECT NO. A022(434)	SURVEY CONTROL - MONUMENT PRESERVATION STC-2847, OLD HWY 81 S
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English

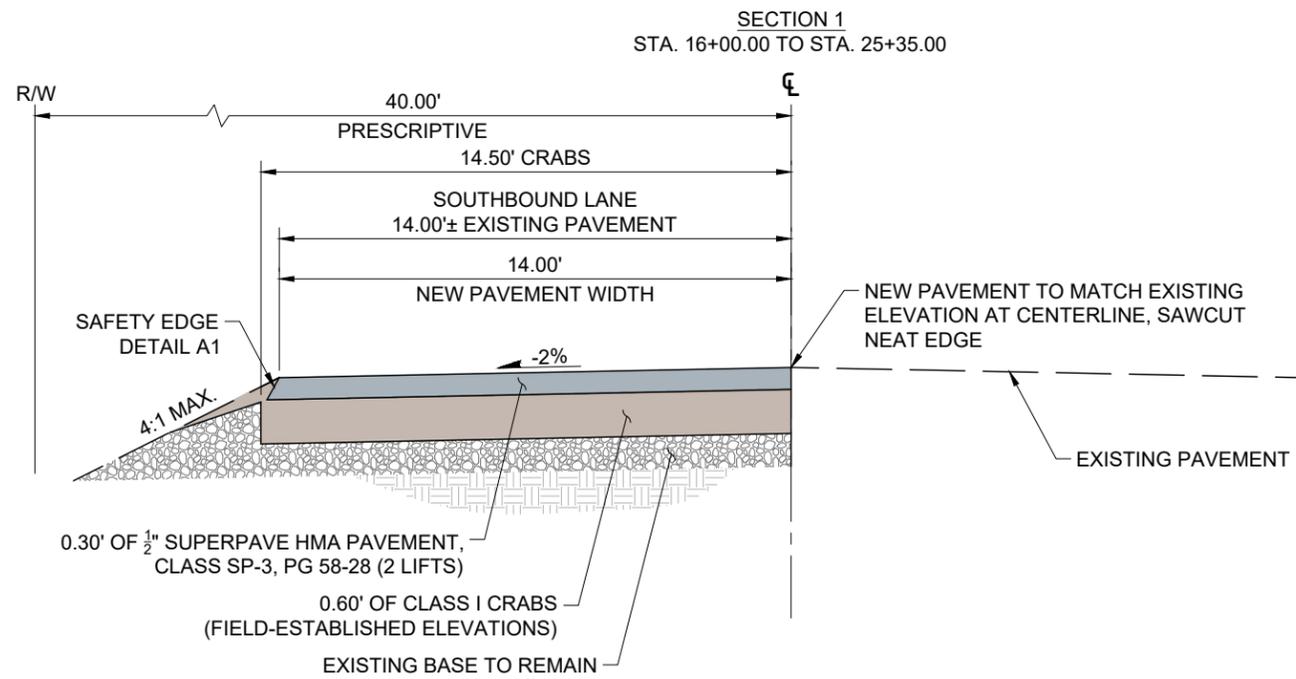
COUNTY CASSIA
KEY NUMBER 22434
SHEET 3 OF 19

PROFESSIONAL ENGINEER
 REGISTERED

 9D6C2313A7C742D...
12490
 8/15/2025
 STATE OF IDAHO
NATHAN CLEAVER



- SECTION 2 NOTES**
1. REMOVE SHOULDER MATERIAL WITHIN CRABS SECTION (14.5' EITHER SIDE OF CONTROL LINE) SO IT IS NOT PULVERIZED INTO THE CRABS SECTION.
 2. PULVERIZE THE EXISTING PAVEMENT AND A PORTION OF THE BASE TO A DEPTH OF 0.80'.
 3. GRADE AND COMPACT THE PULVERIZED AND BLENDED MATERIAL. REMOVE APPROXIMATELY 0.20', BY BLADING TO THE SHOULDER.
 4. UNIFORMLY MIX, GRADE, AND COMPACT 3% CEMENT (INCLUDING WATER FOR HYDRATION) TO A DEPTH OF 0.60 FT.
 5. PLACE 0.30' HMA.
 6. USE THE EXCESS BLADED PULVERIZED MATERIAL AS SHOULDER AGGREGATE.



- SECTION 1 NOTES**
1. REMOVE SHOULDER MATERIAL WITHIN CRABS SECTION (14.5' LEFT OF CONTROL LINE) SO IT IS NOT PULVERIZED INTO THE CRABS SECTION.
 2. PULVERIZE THE EXISTING PAVEMENT AND A PORTION OF THE BASE TO A DEPTH OF 0.97'.
 3. GRADE AND COMPACT THE PULVERIZED AND BLENDED MATERIAL. REMOVE APPROXIMATELY 0.37' OF MATERIAL BELOW THE CENTERLINE EXISTING TOP OF PAVEMENT ELEVATION, BY BLADING TO THE SHOULDER.
 4. UNIFORMLY MIX, GRADE, AND COMPACT 3% CEMENT (INCLUDING WATER FOR HYDRATION) TO A DEPTH OF 0.60 FT. THE ANTICIPATED SWELL IS 0.07'.
 5. PLACE 0.30' HMA TO MATCH EXISTING ROADWAY AT CENTERLINE.
 6. USE THE EXCESS BLADED PULVERIZED MATERIAL AS SHOULDER AGGREGATE.

FOR STA. 153+00.00 TO STA. 154+00.00 SEE A3 CRABS TIE-IN DETAIL (ROADWAY DETAILS SHEET)

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY CADD FILE NAME 22434_TYPI_001 DRAWING DATE: 8/11/25
DESIGN CHECKED E. HULSLANDER	
DETAILED P. TARRICONE	
DRAWING CHECKED N. CLEAVER	

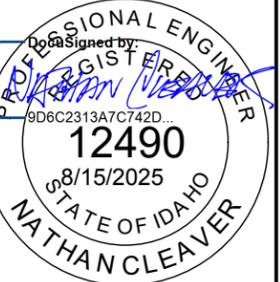
IDAHO TRANSPORTATION DEPARTMENT

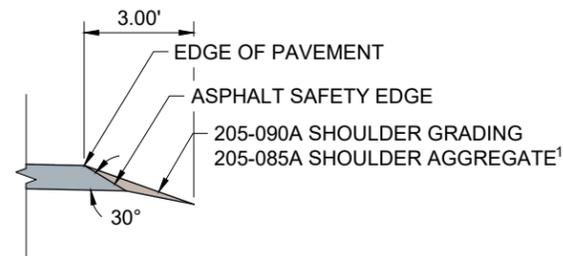
KELLER ASSOCIATES

PROJECT NO.	A022(434)
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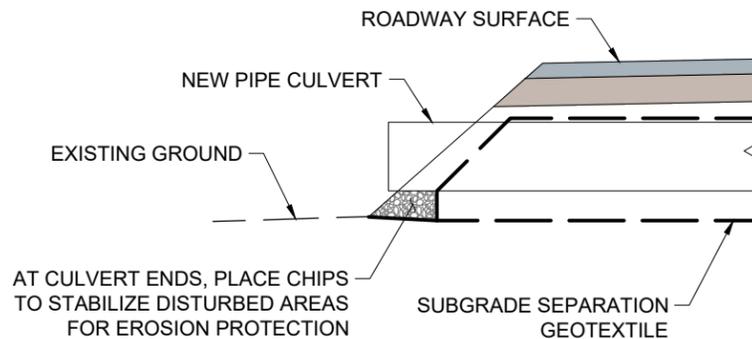
TYPICAL SECTIONS	STC-2847, OLD HWY 81 S
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English
COUNTY CASSIA
KEY NUMBER 22434
SHEET 4 OF 19

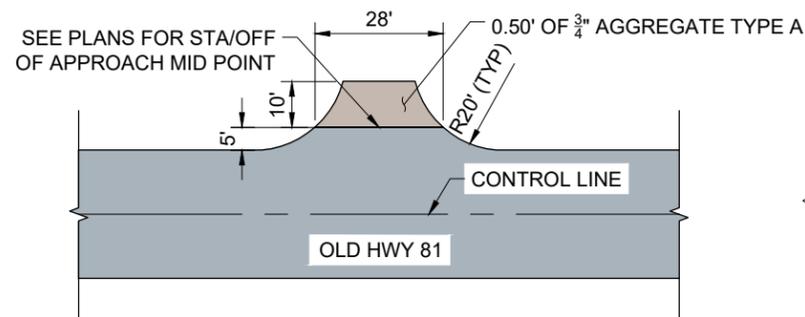
PROFESSIONAL ENGINEER
 REGISTERED

 12490
 8/15/2025
 STATE OF IDAHO
 NATHAN CLEAVER



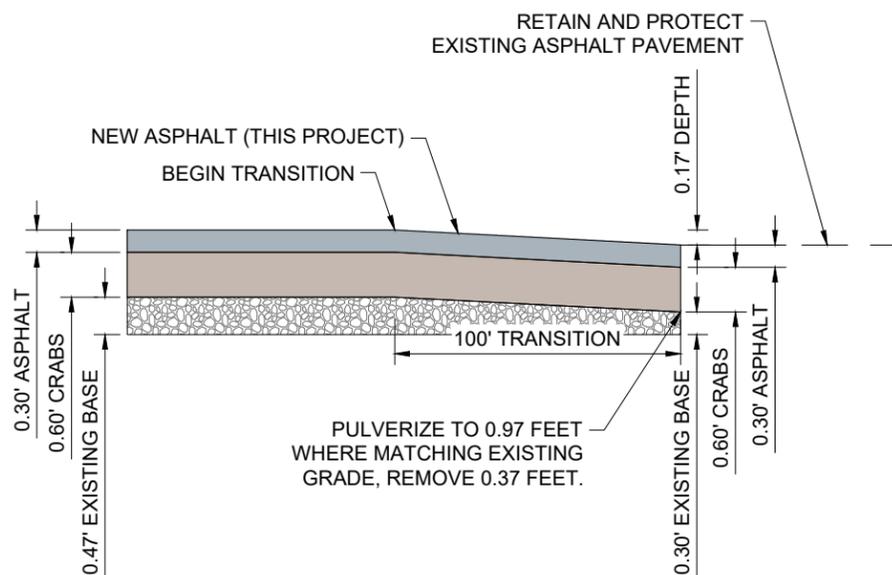
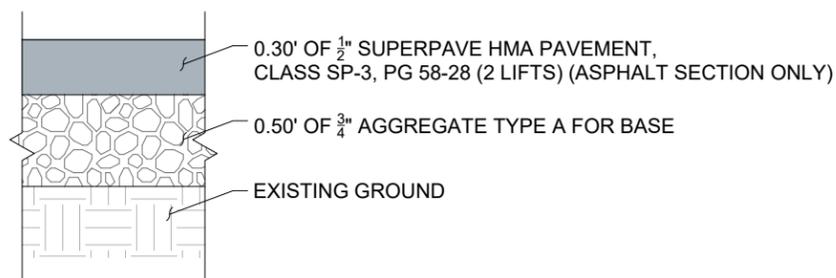
A1 SAFETY EDGE DETAIL
N.T.S.



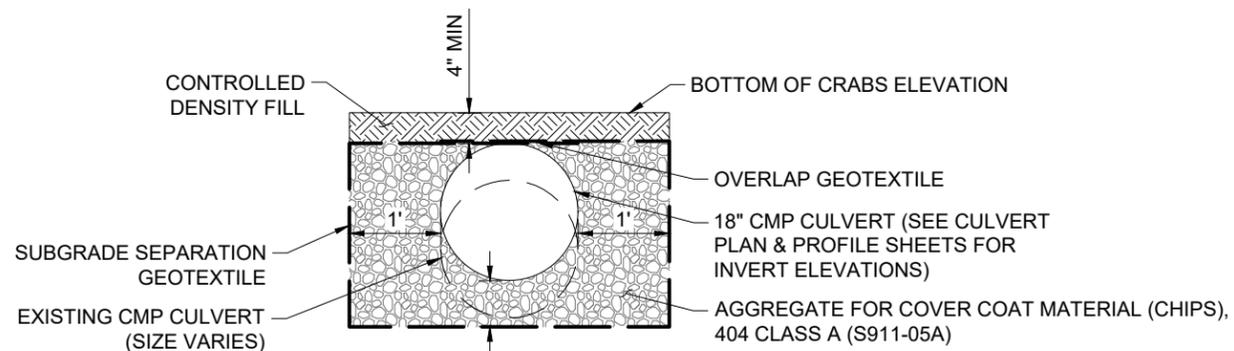
A4 CULVERT END TREATMENT DETAIL
N.T.S.



A2 TYPICAL APPROACH DETAIL
N.T.S.



A3 CRABS TIE-IN DETAIL
N.T.S.



NOTE: LAY GEOTEXTILE FLAT AS SHOWN IN DETAIL, WITH NO PART STICKING UP THAT MIGHT GET SNAGGED DURING PULVERIZATION/CRABS OPERATIONS.

A5 CULVERT BEDDING DETAIL
N.T.S.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY CADD FILE NAME: 22434_TYPI_001 DRAWING DATE: 8/11/25
DESIGN CHECKED E. HULSLANDER	
DETAILED P. TARRICONE	
DRAWING CHECKED N. CLEAVER	

IDAHO TRANSPORTATION DEPARTMENT

KELLER ASSOCIATES

PROJECT NO. A022(434)

ROADWAY DETAILS STC-2847, OLD HWY 81 S

English
COUNTY CASSIA
KEY NUMBER 22434
SHEET 5 OF 19

PROFESSIONAL ENGINEER
 REGISTERED
 9D6C2313A7C742D...
12490
 8/15/2025
 STATE OF IDAHO
NATHAN CLEAVER

SHEET NUMBER				8	9	10	11	12	13			
STATION - STATION				16+00 TO 35+00	35+00 TO 60+00	60+00 TO 85+00	85+00 TO 110+00	110+00 TO 135+00	135+00 TO 154+00			
ITEM NO.	ITEM	UNIT	TOTAL	1900 FT	2500 FT	2500 FT	2500 FT	2500 FT	1900 FT			
107-019A	SURVEY MONUMENT PRESERVATION	CA	2000									
203-123A	REMOVAL OF MISCELLANEOUS ITEMS - CMP CULVERT	FT	424	56	60	105	60	98	45			
205-060A	WATER FOR DUST ABATEMENT	MG	1110									
205-071A	EXCAVATION AND REPAIR OF SOFT SPOTS	CY	200									
205-085A	SHOULDER AGGREGATE	TON	100									
205-090A	SHOULDER GRADING	MILE	6									
212-105A	WATER AND POLLUTION	CA	4000									
303-021A	3/4" AGGREGATE TYPE A FOR BASE	TON	15									
308-005A	CEMENT RECYCLED ASPHALT BASE STABILIZATION (CLASS 1)	SY	45000									
308-010A	PORTLAND CEMENT	TON	450									
308-015A	PULVERIZE EXISTING SURFACE	SY	45000									
401-020A	CSS-1 DILUTED EMULSIFIED ASPHALT FOR TACK COAT	GAL	6500									
402-020A	EMULSIFIED ASPHALT FOR PRIME COAT, TYPE CSS-1h	TON	34.8									
405-245A	APPROACH	EACH	1				1					
405-435A	SUPERPAVE HMA PAVEMENT INCLUDING ASPHALT & ADDITIVES CLASS SP-3	TON	8400									
602-035A	18" PIPE CULVERT	FT	424	56	60	105	60	98	45			
626-010A	TEMPORARY TRAFFIC CONTROL SIGNS	SF	99									
626-050A	DRUMS	EACH	10									
626-105A	TEMPORARY TRAFFIC CONTROL MAINTENANCE	HR	320									
626-120A	FLAGGER CONTROL	HR	420									
626-125A	PILOT CAR	HR	210									
626-135A	WEIGHTED BASE TUBULAR MARKERS	EACH	140									
630-025A	LONGITUDINAL PAVEMENT MARKING - WATERBORNE	FT	6624	912	1200	1200	1200	1200	912			
675-005A	SURVEY	LS	1									
S900-50A	CONTINGENCY AMOUNT - MISCELLANEOUS WORK	CA	10000									
S911-05A	SP - CULVERT BEDDING	FT	424	56	60	105	60	98	45			
Z629-05A	MOBILIZATION	LS	1									

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY CADD FILE NAME 22434 RDSM 001 DRAWING DATE: 8/11/25
DESIGN CHECKED E. HULSLANDER	
DETAILED P. TARRICONE	
DRAWING CHECKED N. CLEAVER	

IDAHO
TRANSPORTATION
DEPARTMENT



KELLER ASSOCIATES

PROJECT NO.	A022(434)
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ROADWAY SUMMARY	STC-2847, OLD HWY 81 S
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English
COUNTY CASSIA
KEY NUMBER 22434
SHEET 6 OF 19

PROFESSIONAL ENGINEER
 REGISTERED
 9D6C2313A7C742D...
12490
 8/15/2025
 STATE OF IDAHO
NATHAN CLEAVER

STATION	PIPE CULVERT (LENGTH IN FEET)					PLASTIC PIPE			METAL PIPE									CONCRETE PIPE			MINOR STRUCTURES					REMARKS (INDICATE ELONGATION WHEN REQUIRED)							
	PIPE SIZE (INCHES)					RIBBED POLYETHYLENE (PE)	CORRUGATED POLYETHYLENE (PE)	RIBBED POLYVINYL CHLORIDE (PVC)	GALVANIZED STEEL	ALUMINIZED STEEL	STEEL PIPE			ALUMINUM PIPE			REINFORCED CLASS	IRRIGATION OR DRAINAGE	TYPE OF BEDDING	RUBBER GASKET JOINTS REQUIRED	FILL HEIGHT	STR. EXC.	COMP. BKFFILL	DRAWING NUMBER	STRUCTURE		CONCRETE	METAL REINF.	TIMBER	GRATES	APRONS	INLETS	CATCH BASINS
	18										THICK. (")	COATED	ANNULAR CORR.	HELICAL CORR.	THICK. (")	COATED									ANNULAR CORR.		HELICAL CORR.	EA.	C.Y.	LBS.	MFBM	EA.	EA.
27+95.00	56					X	X	X	X	X	0.079"			X	0.075"			X														S911-05A FOR BEDDING	
41+47.80 TO 41+77.45	60								X	X	0.079"			X	0.075"			X													S911-05A FOR BEDDING		
63+49.00	51								X	X	0.079"			X	0.075"			X													S911-05A FOR BEDDING		
75+14.44 TO 75+36.76	54								X	X	0.079"			X	0.075"			X													S911-05A FOR BEDDING		
103+24.50	60								X	X	0.079"			X	0.075"			X													S911-05A FOR BEDDING		
131+35.00	50								X	X	0.079"			X	0.075"			X													S911-05A FOR BEDDING		
131+74.75	48								X	X	0.079"			X	0.075"			X													S911-05A FOR BEDDING		
145+48.50	45								X	X	0.079"			X	0.075"			X													S911-05A FOR BEDDING		
SHEET TOTAL	424																																
PROJ. TOTAL	424																																

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY CADD FILE NAME 22434_PISM_001 DRAWING DATE: 2/26/25
DESIGN CHECKED E. HULSLANDER	
DETAILED D. WALLERY	
DRAWING CHECKED N. CLEAVER	

IDAHO TRANSPORTATION DEPARTMENT

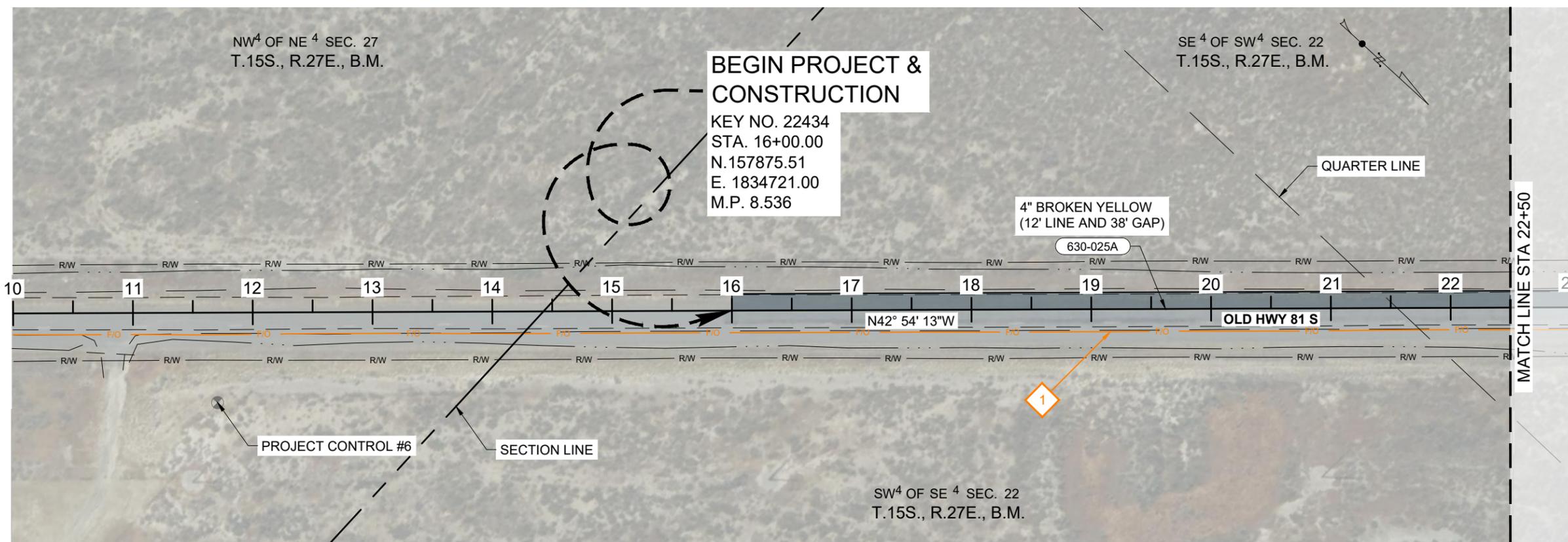
KELLER ASSOCIATES

PROJECT NO.	A022(434)
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CULVERT PIPE SUMMARY	STC-2847, OLD HWY 81 S
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English
COUNTY CASSIA
KEY NUMBER 22434
SHEET 7 OF 19

PROFESSIONAL ENGINEER
 REGISTERED
 9D6C2313A7C742D...
12490
 8/15/2025
 STATE OF IDAHO
NATHAN CLEAVER



203-123A	REMOVAL OF MISCELLANEOUS ITEMS - CMP CULVERT	56 FT	27+95.00	27.0 RT. TO 28.5 LT.
602-035A	18" PIPE CULVERT	56 FT	27+95.00	27.3 RT. TO 28.7 LT.
630-025A	LONGITUDINAL PAVEMENT MARKING - WATERBORNE	312 FT	16+00.00 TO 22+50.00	
		600 FT	22+50.00 TO 35+00.00	
S911-05A	SP - CULVERT BEDDING	56 FT	27+95.00	27.3 RT. TO 28.7 LT.

NOTES:

1. SEE CULVERT PLAN AND PROFILE SHEETS FOR PIPE INVERT ELEVATIONS.
2. QUANTITY OF 630-025A INCLUDES A DOUBLE APPLICATION OF PAINT TO MEET SPECIFICATION IN SECTION 630.
3. SECTION LINE INFORMATION WAS NOT SURVEYED. LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

SHEET KEYNOTES:

1 LUMEN

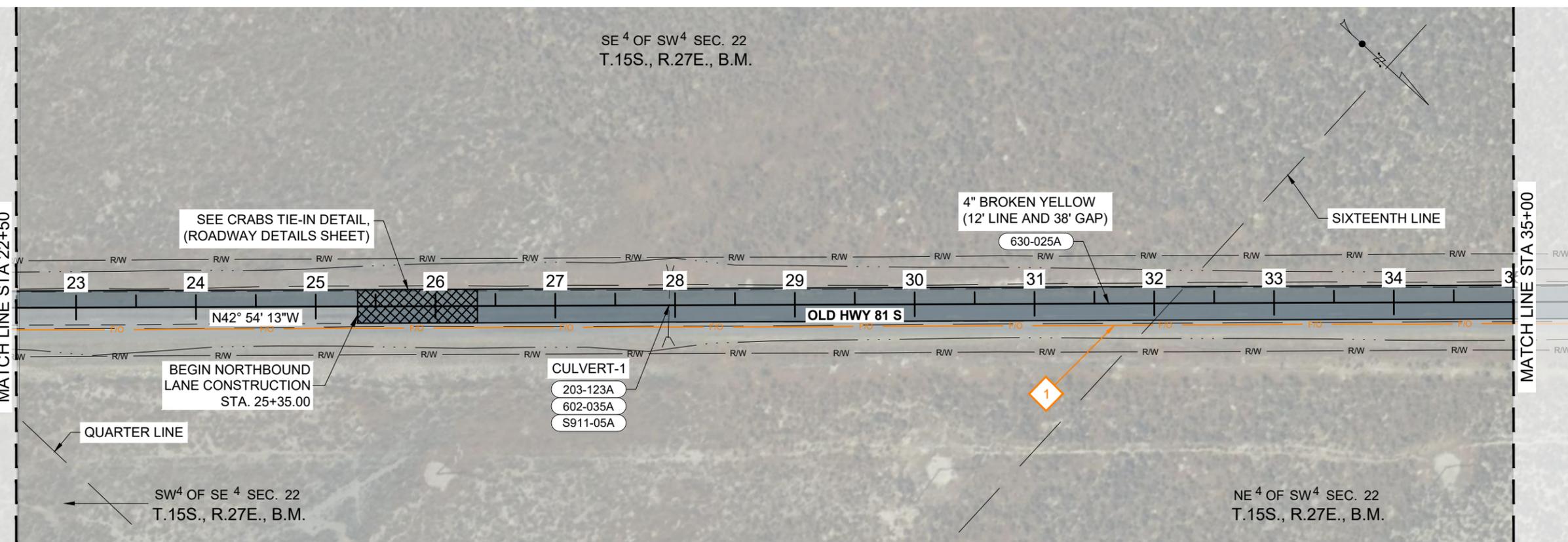
RETAIN AND PROTECT ALL EXISTING UTILITIES

UTILITY LEGEND:

— F/O — EXISTING FIBER OPTIC

ROADWAY LEGEND:

PLACE NEW ASPHALT PAVEMENT
GRAVEL APPROACH



DESIGNED BY: P. TARRICONE
 DESIGN CHECKED BY: E. HULSLANDER
 DETAILED BY: P. TARRICONE
 DRAWING CHECKED BY: N. CLEAVER

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
 CADD FILE NAME: 22434_PLPL_001
 DRAWING DATE: 8/11/25

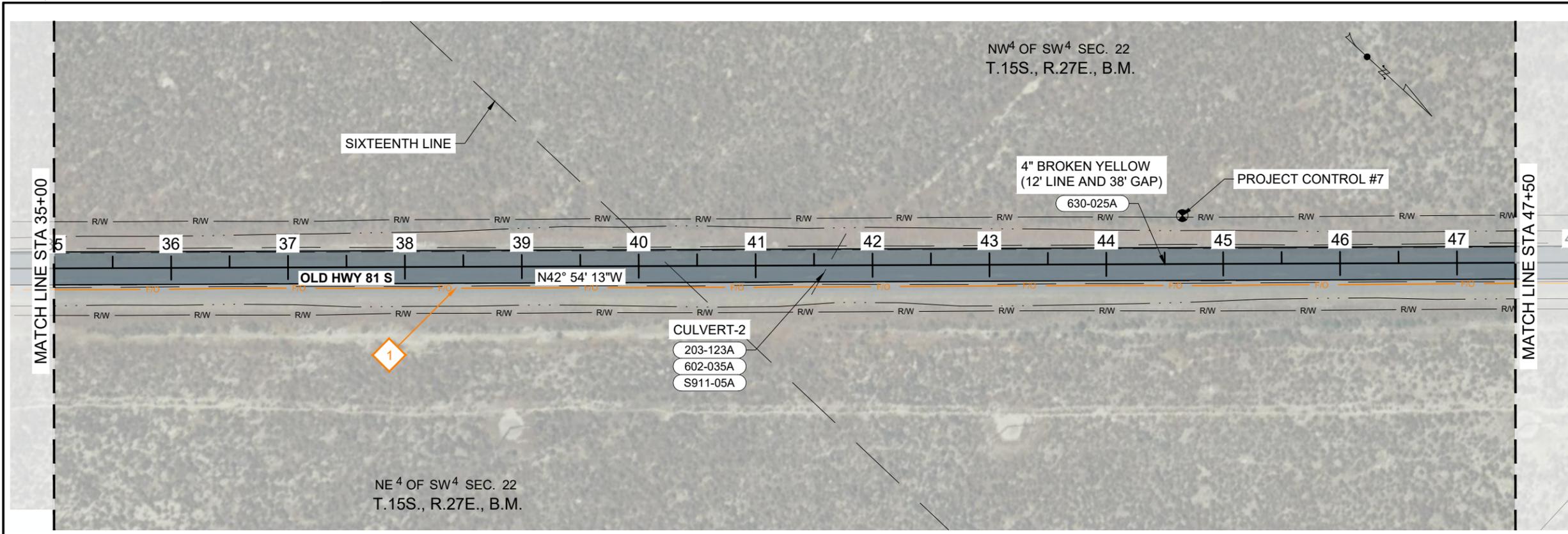
IDAHO TRANSPORTATION DEPARTMENT
 KELLER ASSOCIATES

PROJECT NO. A022(434)
 PLAN & PLAN: STC-2847, OLD HWY 81 S

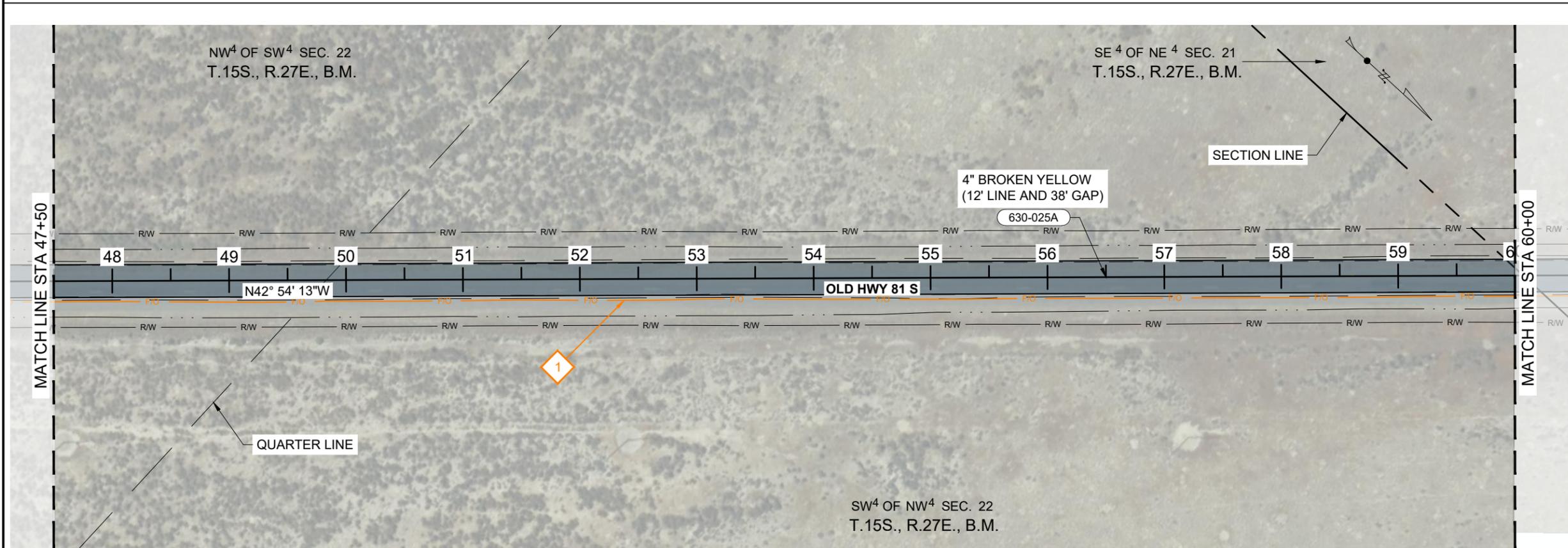
English
 COUNTY: CASSIA
 KEY NUMBER: 22434
 SHEET 8 OF 19

REGISTERED PROFESSIONAL ENGINEER
 12490
 8/15/2025
 STATE OF IDAHO
 NATHAN CLEAVER

REVISIONS			
NO.	DATE	BY	DESCRIPTION



203-123A	REMOVAL OF MISCELLANEOUS ITEMS - CMP CULVERT	60 FT	41+47.80, 24.7 RT. TO 41+77.45, 26.9 LT.
602-035A	18" PIPE CULVERT	60 FT	41+47.70, 24.9 RT. TO 41+77.55, 27.1 LT.
630-025A	LONGITUDINAL PAVEMENT MARKING - WATERBORNE	600 FT	35+00.00 TO 47+50.00
		600 FT	47+50.00 TO 60+00.00
S911-05A	SP - CULVERT BEDDING	60 FT	41+47.70, 24.9 RT. TO 41+77.55, 27.1 LT.



- NOTES:**
- SEE CULVERT PLAN AND PROFILE SHEETS FOR PIPE INVERT ELEVATIONS.
 - QUANTITY OF 630-025A INCLUDES A DOUBLE APPLICATION OF PAINT TO MEET SPECIFICATION IN SECTION 630.
 - SECTION LINE INFORMATION WAS NOT SURVEYED. LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

- SHEET KEYNOTES:**
- LUMEN**
- RETAIN AND PROTECT ALL EXISTING UTILITIES
- UTILITY LEGEND:**
- F/O** EXISTING FIBER OPTIC
- ROADWAY LEGEND:**
- PLACE NEW ASPHALT PAVEMENT
 - GRAVEL APPROACH

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED E. HULSLANDER	
DETAILED P. TARRICONE	
DRAWING CHECKED N. CLEAVER	
DRAWING DATE: 8/11/25	

IDAHO TRANSPORTATION DEPARTMENT



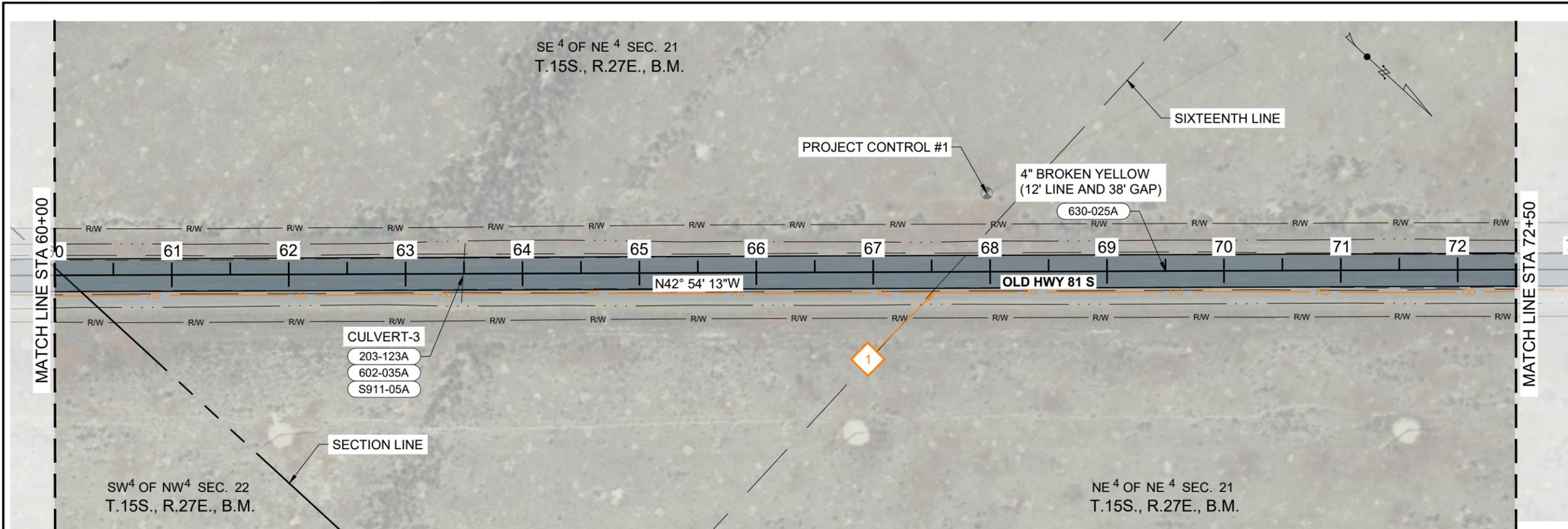
KELLER ASSOCIATES

PROJECT NO.	PLAN & PLAN
A022(434)	STC-2847, OLD HWY 81 S

English

COUNTY	CASSIA
KEY NUMBER	22434
SHEET	9 OF 19

Professional Engineer
Registered Professional Engineer
Nathan Cleaver
12490
8/15/2025
STATE OF IDAHO



203-123A	REMOVAL OF MISCELLANEOUS ITEMS - CMP CULVERT
51 FT	63+49.00 TO 26.0 LT.
54 FT	75+14.44, 22.7 LT. TO 75+36.76, 26.1 RT.
602-035A	18" PIPE CULVERT
51 FT	63+49.00 TO 26.0 LT.
54 FT	75+14.37, 22.8 LT. TO 75+36.83, 26.3 RT.
630-025A	LONGITUDINAL PAVEMENT MARKING - WATERBORNE
600 FT	60+00.00 TO 72+50.00
600 FT	72+50.00 TO 85+00.00
S911-05A	SP - CULVERT BEDDING
51 FT	63+49.00 TO 26.0 LT.
54 FT	75+14.37, 22.8 LT. TO 75+36.83, 26.3 RT.

NOTES:

1. SEE CULVERT PLAN AND PROFILE SHEETS FOR PIPE INVERT ELEVATIONS.
2. QUANTITY OF 630-025A INCLUDES A DOUBLE APPLICATION OF PAINT TO MEET SPECIFICATION IN SECTION 630.
3. SECTION LINE INFORMATION WAS NOT SURVEYED. LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

SHEET KEYNOTES:

LUMEN

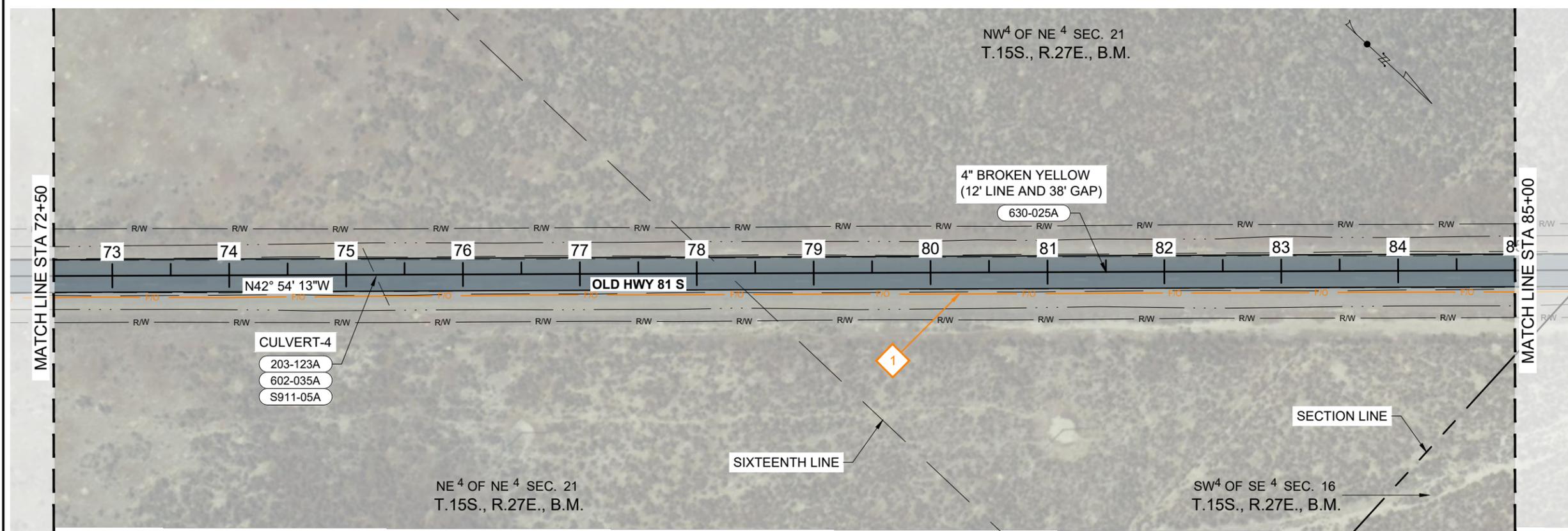
RETAIN AND PROTECT ALL EXISTING UTILITIES

UTILITY LEGEND:

EXISTING FIBER OPTIC

ROADWAY LEGEND:

PLACE NEW ASPHALT PAVEMENT
 GRAVEL APPROACH



Professional Engineer
 Registered Professional Engineer
 9D6C2313A7C742D...
12490
 8/15/2025
 STATE OF IDAHO
 NATHAN CLEAVER

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY CADD FILE NAME 22434_PLPL_001 DRAWING DATE: 8/11/25
DESIGN CHECKED E. HULSLANDER	
DETAILED P. TARRICONE	
DRAWING CHECKED N. CLEAVER	

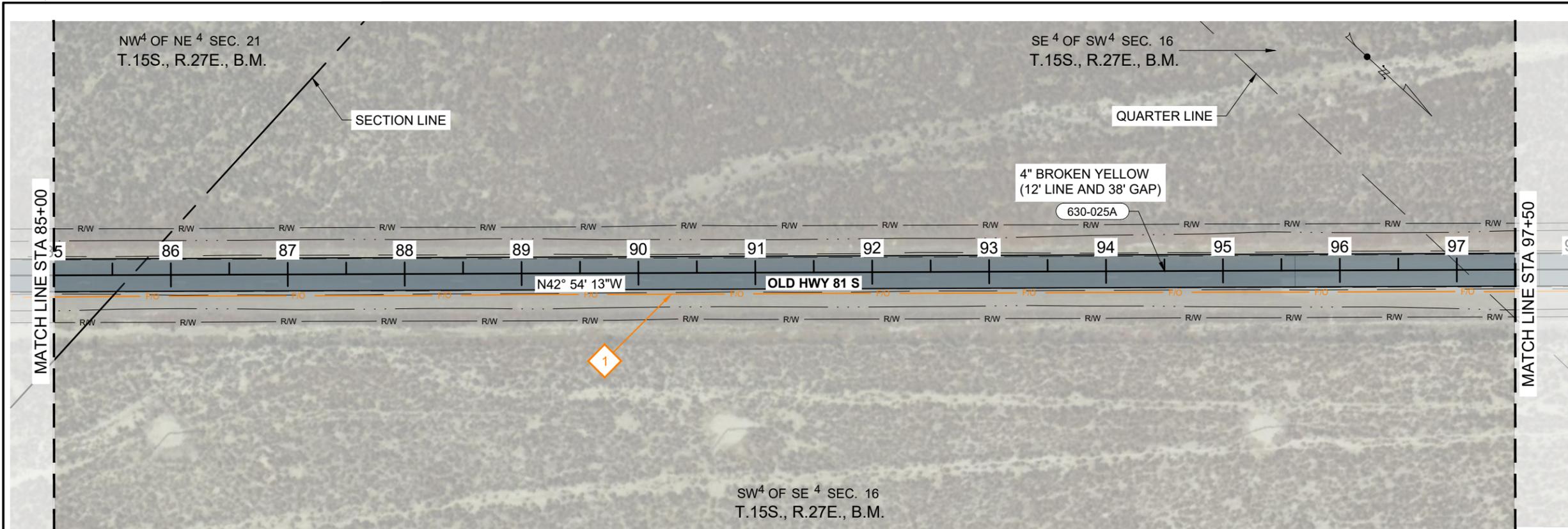
IDAHO TRANSPORTATION DEPARTMENT

 KELLER ASSOCIATES

PROJECT NO.
A022(434)

PLAN & PLAN
STC-2847, OLD HWY 81 S

English
 COUNTY CASSIA
 KEY NUMBER 22434
 SHEET 10 OF 19



203-123A	REMOVAL OF MISCELLANEOUS ITEMS - CMP CULVERT
60 FT	103+24.50 27.1 LT. TO 31.1 RT.
405-245A	APPROACH
1 EACH	109+44.00, RT.
602-035A	18" PIPE CULVERT
60 FT	103+24.50 28.0 LT. TO 32.0 RT.
630-025A	LONGITUDINAL PAVEMENT MARKING - WATERBORNE
600 FT	85+00.00 TO 97+50.00
600 FT	97+50.00 TO 110+00.00
S911-05A	SP - CULVERT BEDDING
60 FT	103+24.50 28.0 LT. TO 32.0 RT.

NOTES:

1. SEE CULVERT PLAN AND PROFILE SHEETS FOR PIPE INVERT ELEVATIONS.
2. QUANTITY OF 630-025A INCLUDES A DOUBLE APPLICATION OF PAINT TO MEET SPECIFICATION IN SECTION 630.
3. SECTION LINE INFORMATION WAS NOT SURVEYED. LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

SHEET KEYNOTES:

1 LUMEN

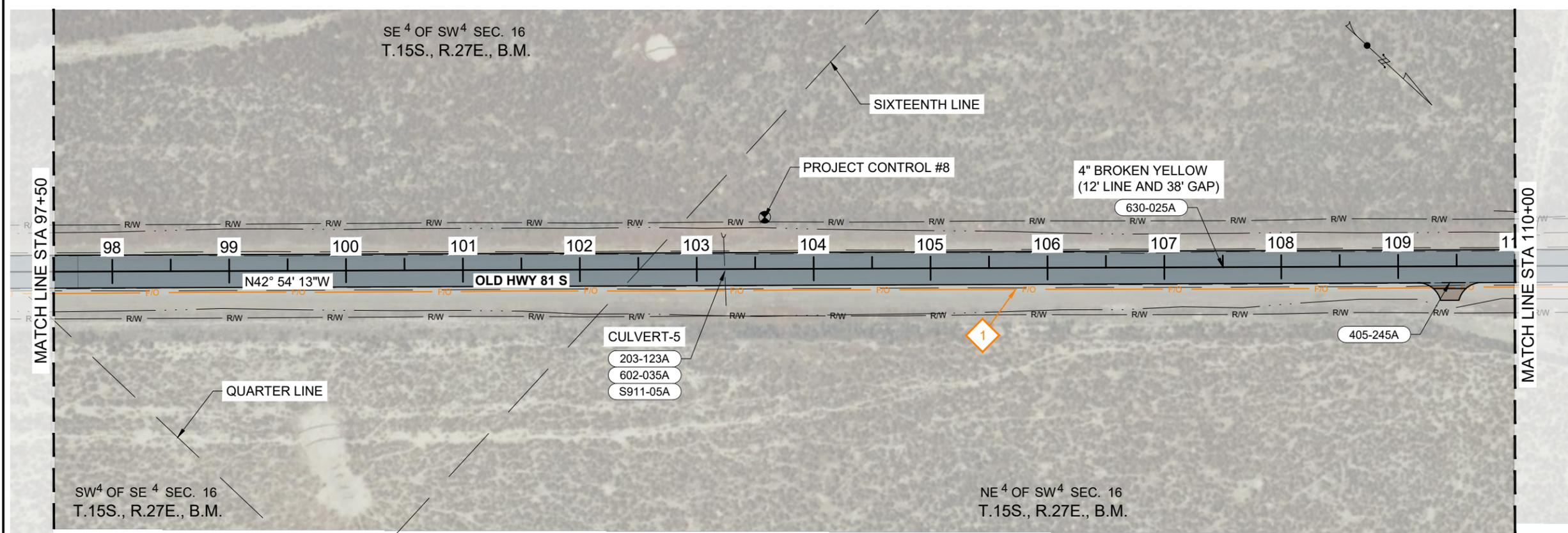
RETAIN AND PROTECT ALL EXISTING UTILITIES

UTILITY LEGEND:

— F/O — EXISTING FIBER OPTIC

ROADWAY LEGEND:

PLACE NEW ASPHALT PAVEMENT
GRAVEL APPROACH



CULVERT-5
203-123A
602-035A
S911-05A

405-245A

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED E. HULSLANDER	CADD FILE NAME 22434_PLPL_001
DETAILED P. TARRICONE	DRAWING DATE: 8/11/25
DRAWING CHECKED N. CLEAVER	

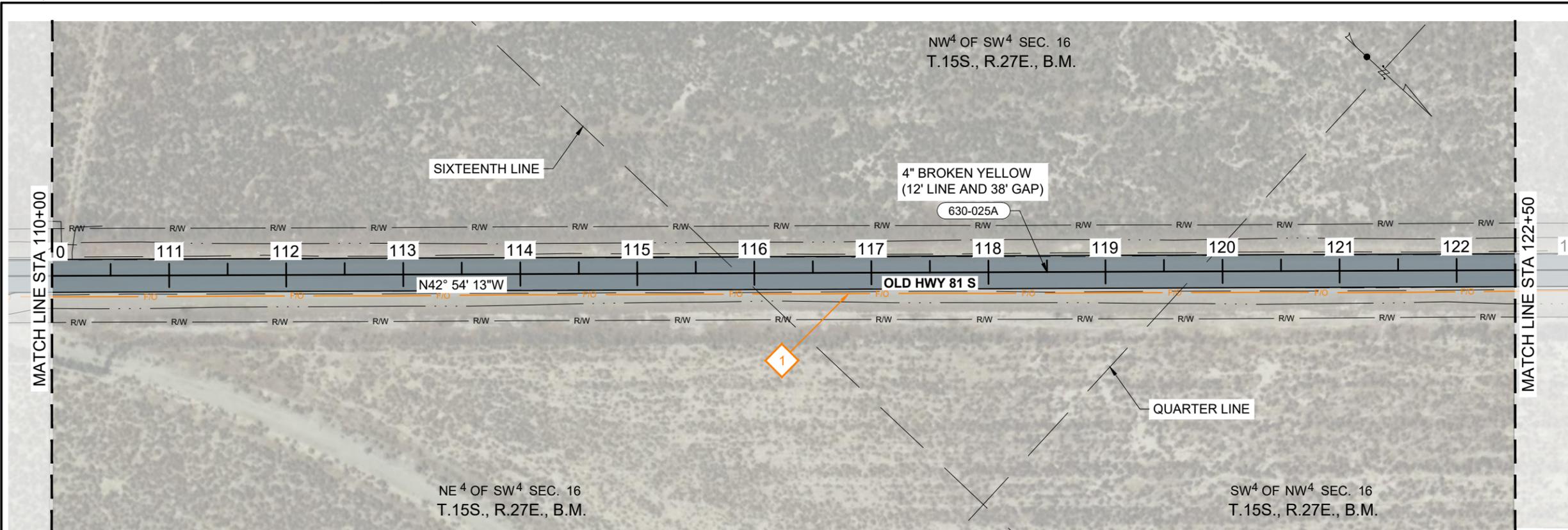
IDAHO TRANSPORTATION DEPARTMENT

KELLER ASSOCIATES

PROJECT NO.	PLAN & PLAN
A022(434)	STC-2847, OLD HWY 81 S

English
COUNTY CASSIA
KEY NUMBER 22434
SHEET 11 OF 19

PROFESSIONAL ENGINEER
 REGISTERED
 9D6C2313A7C742D...
12490
 8/15/2025
 STATE OF IDAHO
NATHAN CLEAVER



203-123A	REMOVAL OF MISCELLANEOUS ITEMS - CMP CULVERT
50 FT	131+35.00 25.9 RT. TO 23.1 LT.
48 FT	131+74.75 25.0 RT. TO 22.9 LT.
602-035A	18" PIPE CULVERT
50 FT	131+35.00 26.4 RT. TO 23.6 LT.
48 FT	131+74.75 25.0 RT. TO 23.0 LT.
630-025A	LONGITUDINAL PAVEMENT MARKING - WATERBORNE
600 FT	110+00.00 TO 122+50.00
600 FT	122+50.00 TO 135+00.00
S911-05A	SP - CULVERT BEDDING
50 FT	131+35.00 26.4 RT. TO 23.6 LT.
48 FT	131+74.75 25.0 RT. TO 23.0 LT.

NOTES:

1. SEE CULVERT PLAN AND PROFILE SHEETS FOR PIPE INVERT ELEVATIONS.
2. QUANTITY OF 630-025A INCLUDES A DOUBLE APPLICATION OF PAINT TO MEET SPECIFICATION IN SECTION 630.
3. SECTION LINE INFORMATION WAS NOT SURVEYED. LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

SHEET KEYNOTES:

LUMEN

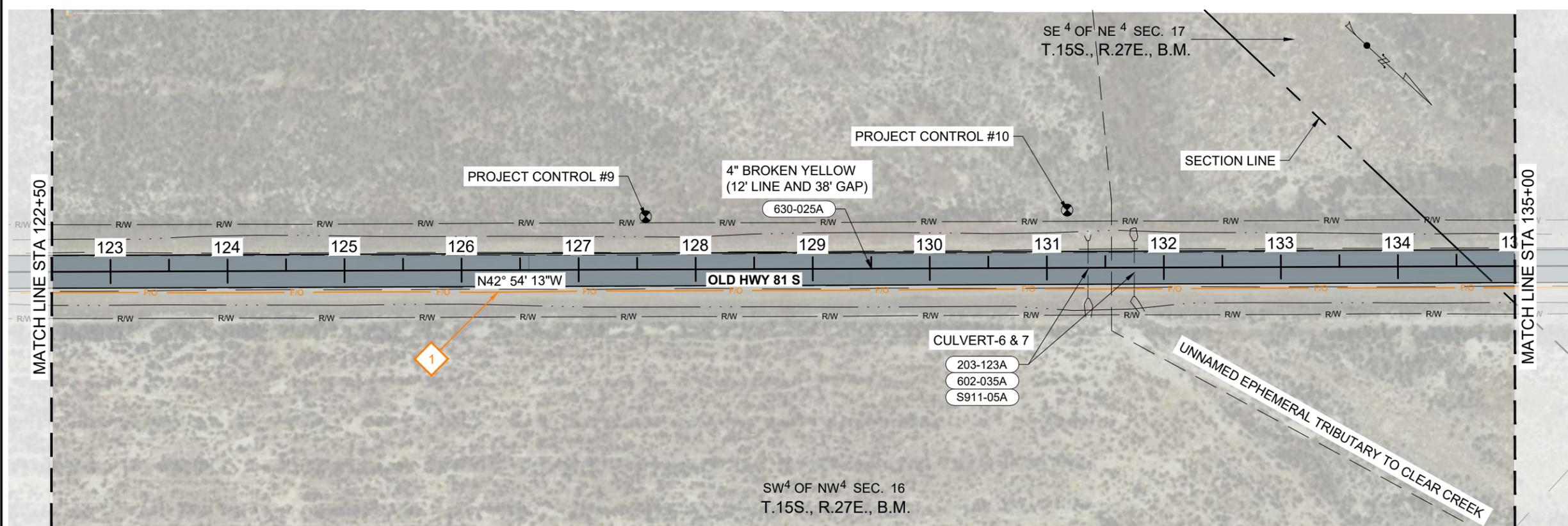
RETAIN AND PROTECT ALL EXISTING UTILITIES

UTILITY LEGEND:

F/O EXISTING FIBER OPTIC

ROADWAY LEGEND:

PLACE NEW ASPHALT PAVEMENT
 GRAVEL APPROACH



Professional Engineer
 Registered Professional Engineer
 9D6C2313A7C742D...
12490
 8/15/2025
 STATE OF IDAHO
 NATHAN CLEAVER

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED E. HULSLANDER	CADD FILE NAME 22434_PLPL_001
DETAILED P. TARRICONE	DRAWING DATE: 8/11/25
DRAWING CHECKED N. CLEAVER	

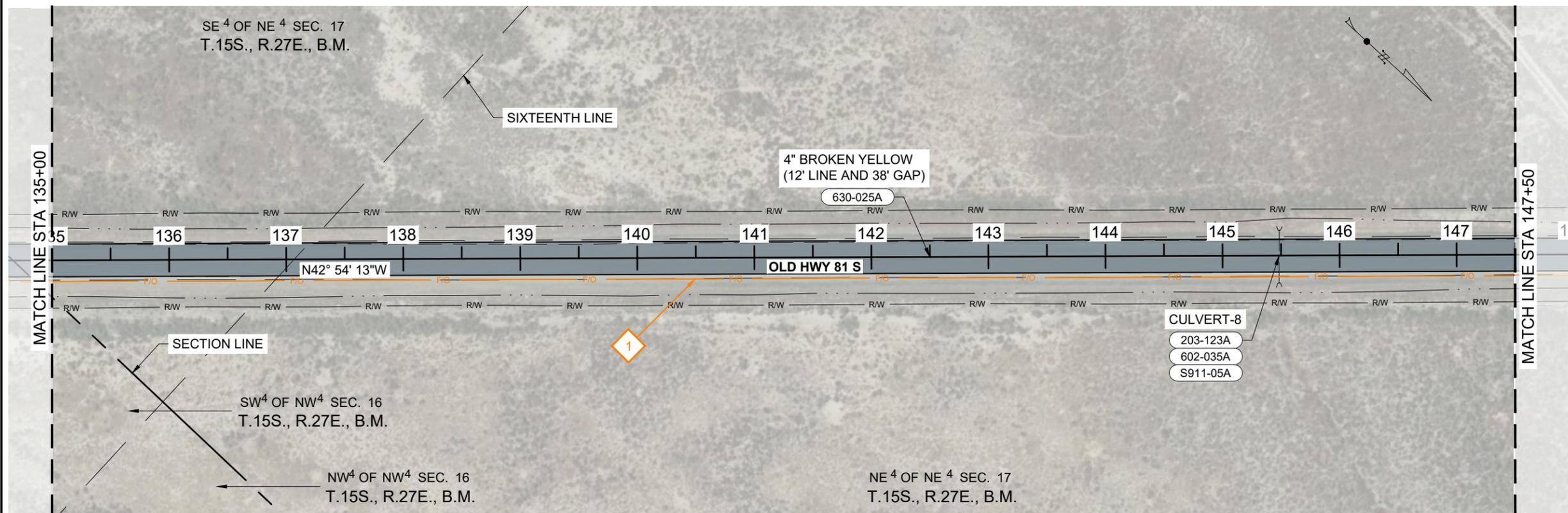
IDAHO TRANSPORTATION DEPARTMENT

 KELLER ASSOCIATES

PROJECT NO.
A022(434)

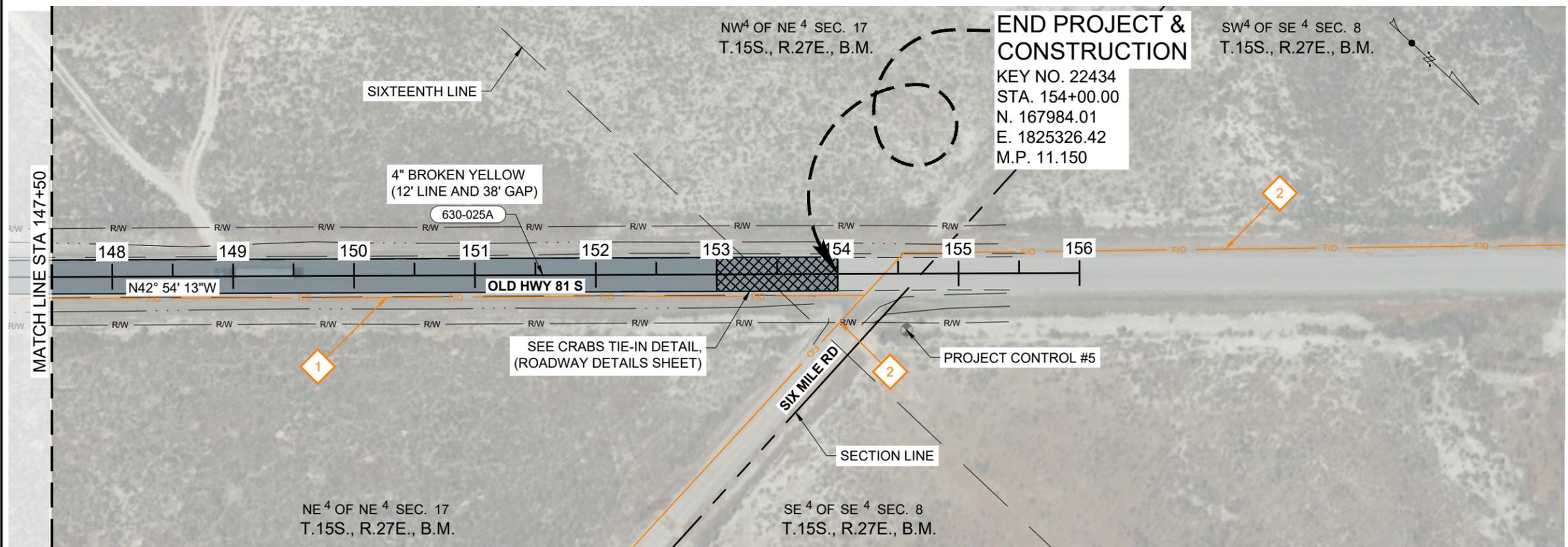
PLAN & PLAN
STC-2847, OLD HWY 81 S

English
 COUNTY
CASSIA
 KEY NUMBER
22434
 SHEET 12 OF 19



- 203-123A REMOVAL OF MISCELLANEOUS ITEMS - CMP CULVERT**
45 FT 145+48.50
23.5 RT. TO 21.5 LT.
- 602-035A 18" PIPE CULVERT**
45 FT 145+48.50
23.5 RT. TO 21.5 LT.
- 630-025A LONGITUDINAL PAVEMENT MARKING - WATERBORNE**
600 FT 135+00.00 TO 147+50.00
312 FT 147+50.00 TO 154+00.00
- S911-05A SP - CULVERT BEDDING**
45 FT 145+48.50
23.5 RT. TO 21.5 LT.

- NOTES:**
1. SEE CULVERT PLAN AND PROFILE SHEETS FOR PIPE INVERT ELEVATIONS.
 2. QUANTITY OF 630-025A INCLUDES A DOUBLE APPLICATION OF PAINT TO MEET SPECIFICATION IN SECTION 630.
 3. SECTION LINE INFORMATION WAS NOT SURVEYED. LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.



- SHEET KEYNOTES:**
- 1 LUMEN
 - 2 ATC COMMUNICATIONS
- RETAIN AND PROTECT ALL EXISTING UTILITIES
- UTILITY LEGEND:**
- F/O — EXISTING FIBER OPTIC
- ROADWAY LEGEND:**
- PLACE NEW ASPHALT PAVEMENT
 - GRAVEL APPROACH

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED E. HULSLANDER	
DETAILED P. TARRICONE	CADD FILE NAME 22434_PLPL_001
DRAWING CHECKED N. CLEAVER	DRAWING DATE: 8/11/25

IDAHO TRANSPORTATION DEPARTMENT

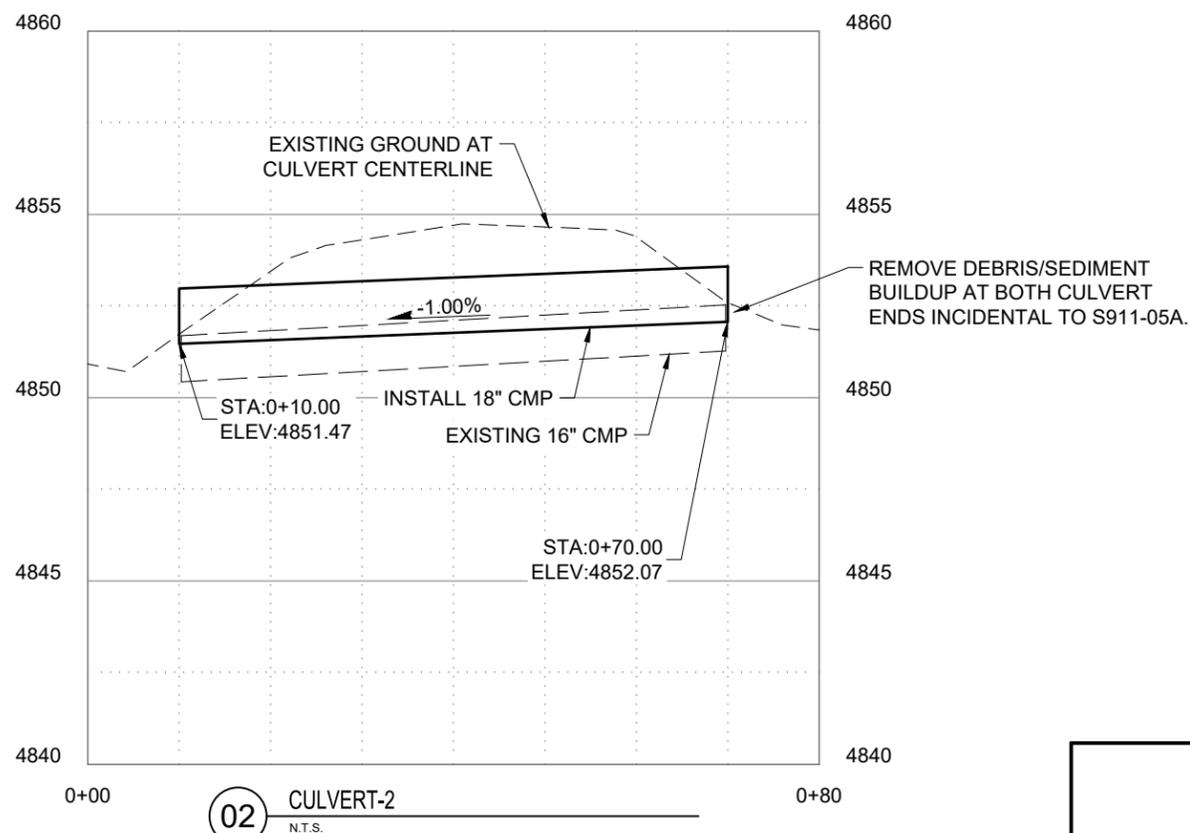
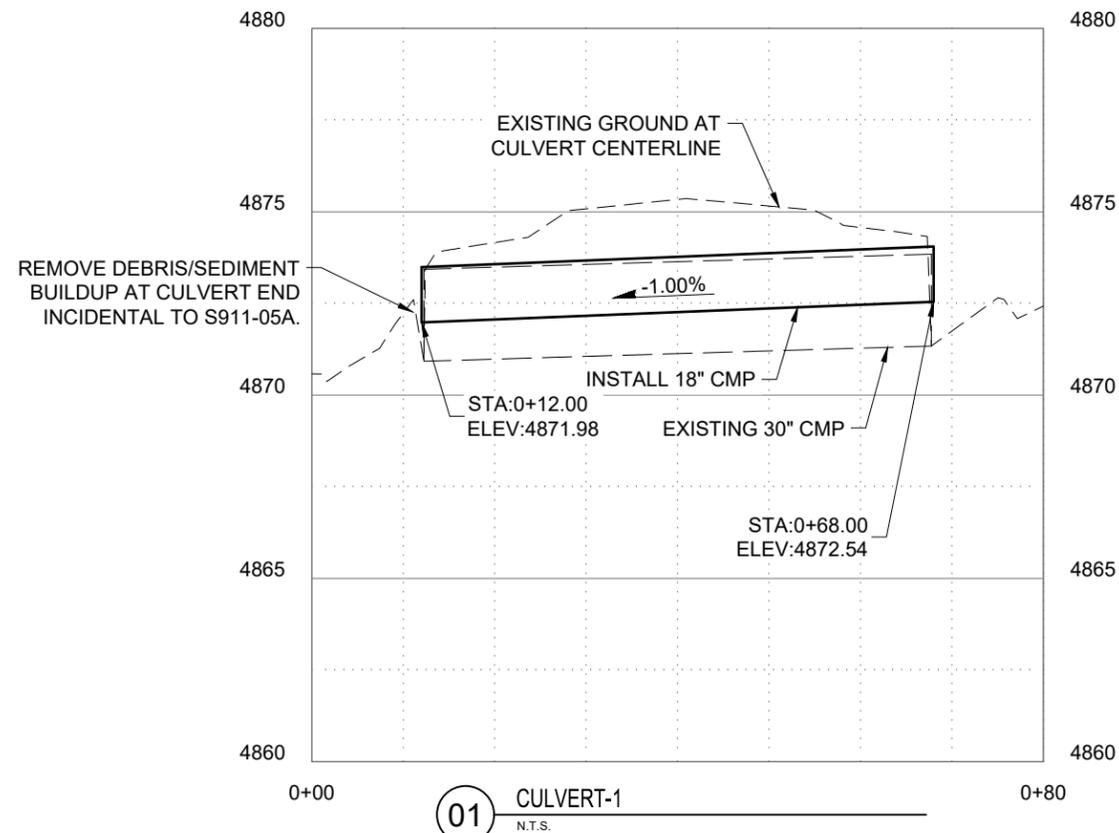
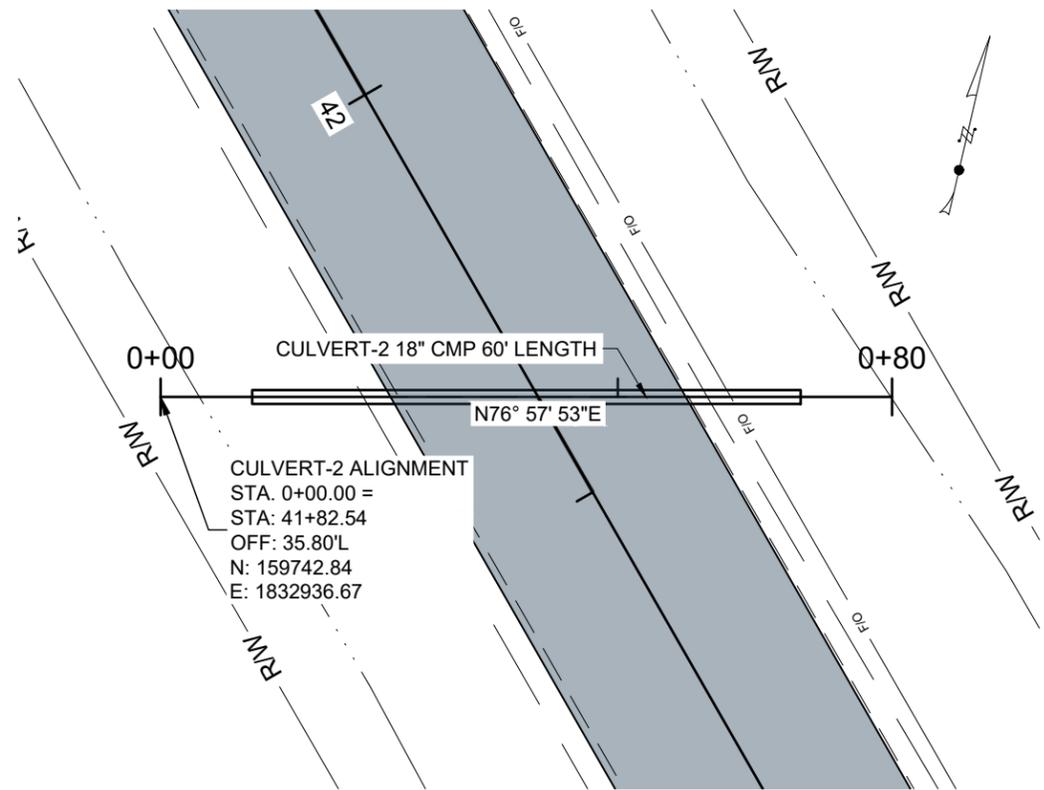
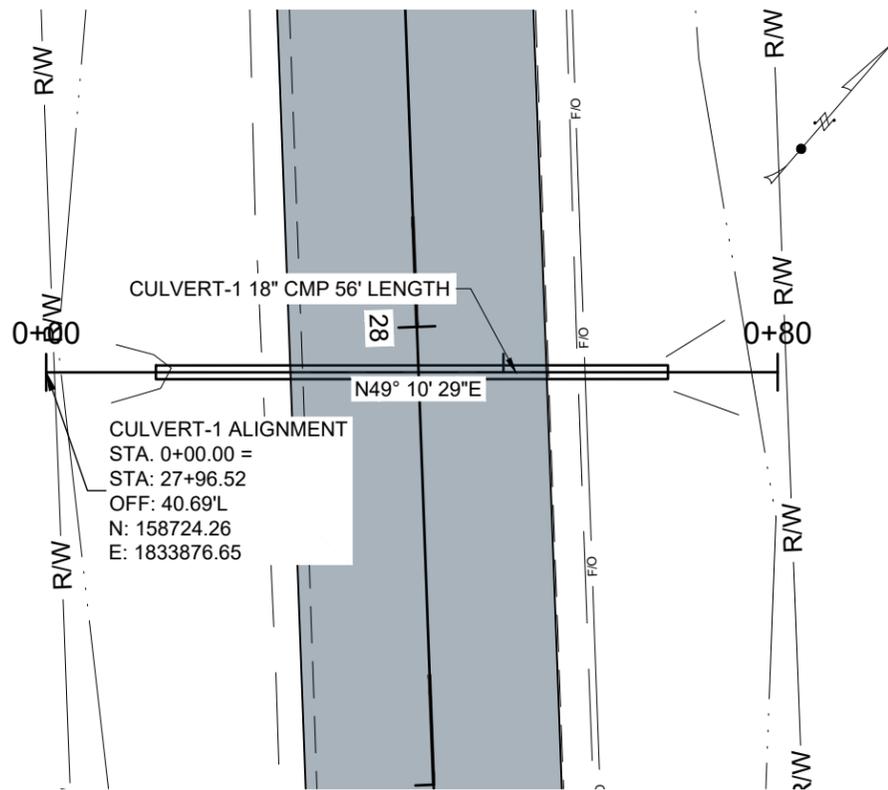
KELLER ASSOCIATES

PROJECT NO.	PLAN & PLAN
A022(434)	STC-2847, OLD HWY 81 S

English

COUNTY CASSIA
KEY NUMBER 22434
SHEET 13 OF 19

Professional Engineer
Registered Professional Engineer
Nathan Cleaver
12490
8/15/2025
STATE OF IDAHO



01 CULVERT-1
N.T.S.

02 CULVERT-2
N.T.S.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY CADD FILE NAME 22434_CVPP_001 DRAWING DATE: 2/21/25
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DETAILED D. WALLERY	
DRAWING CHECKED N. CLEAVER	

IDAHO TRANSPORTATION DEPARTMENT

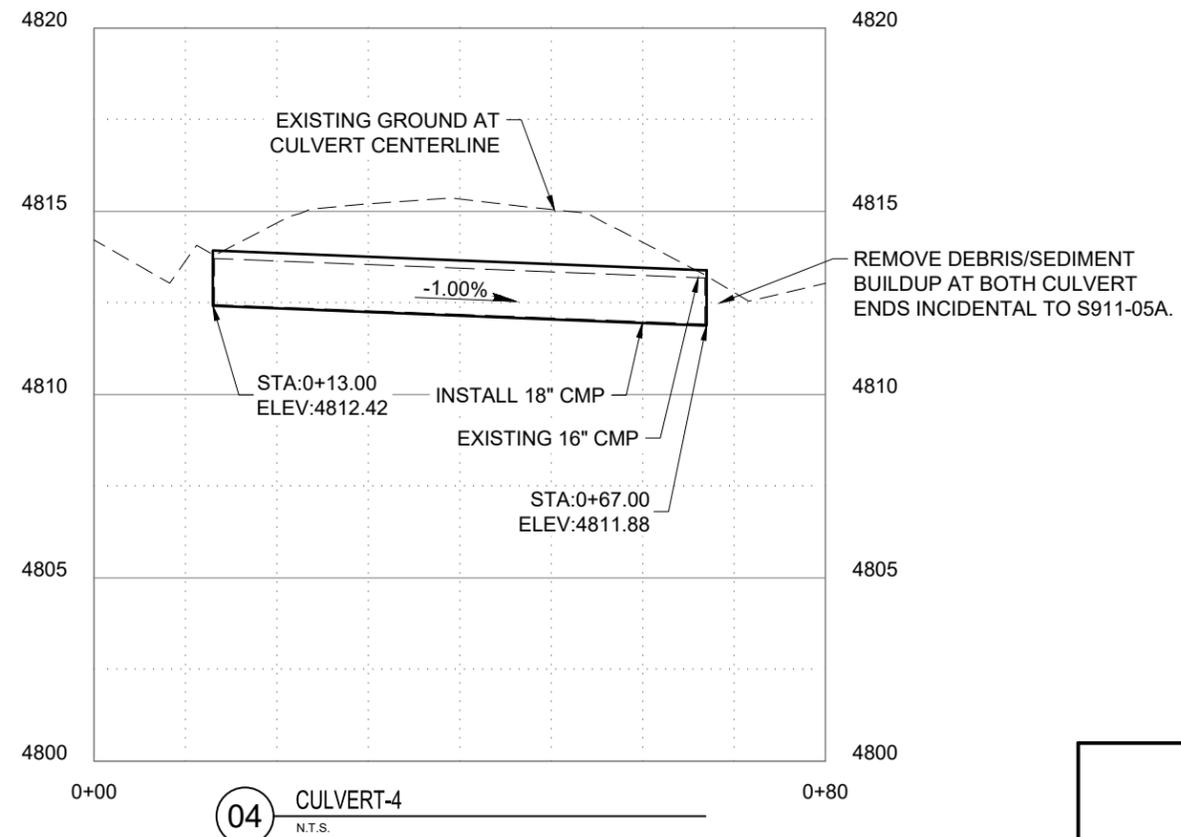
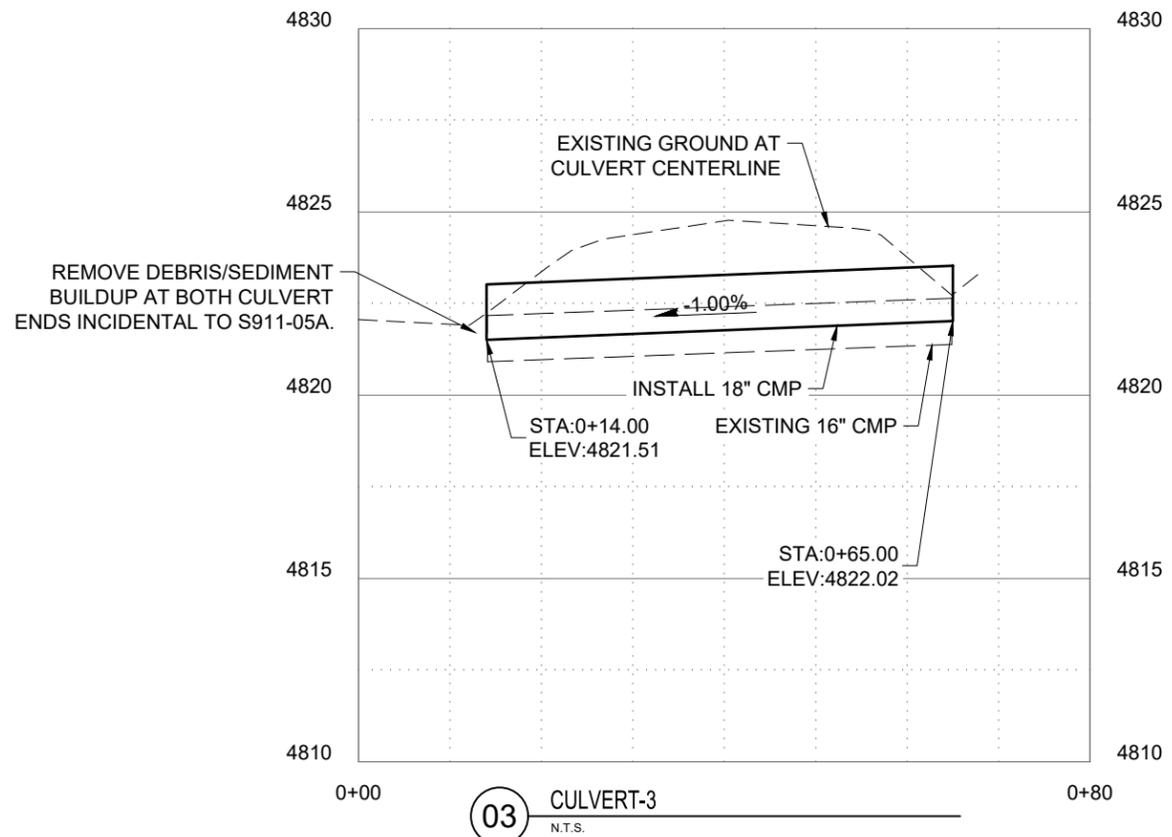
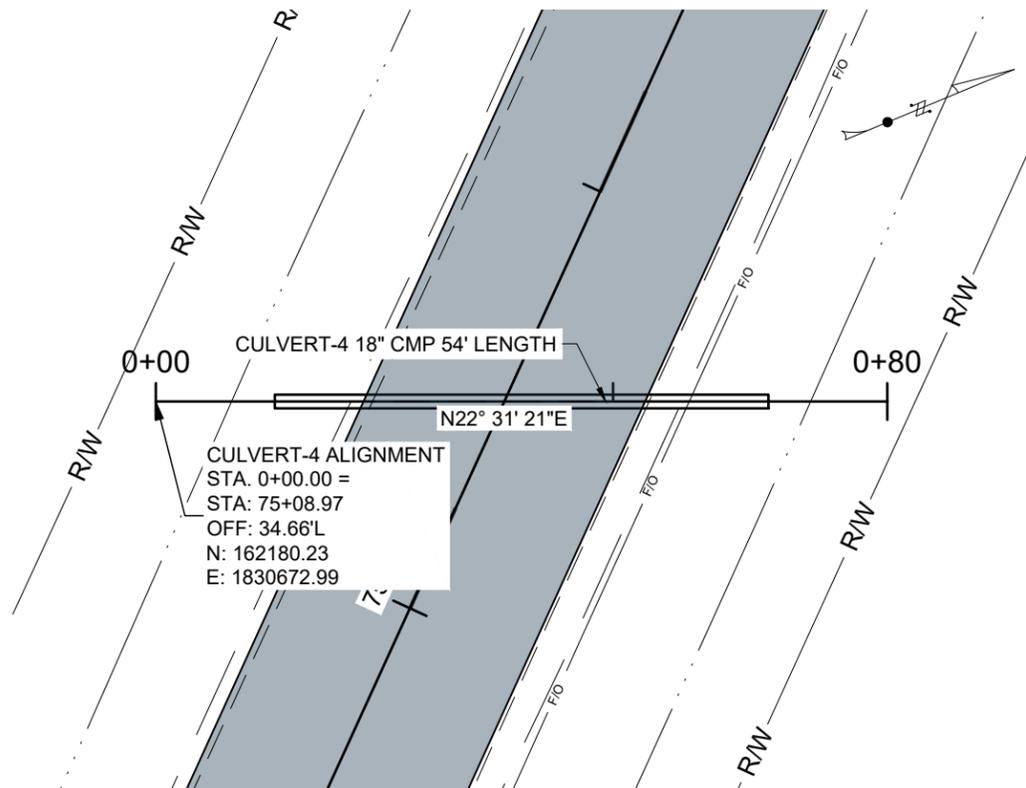
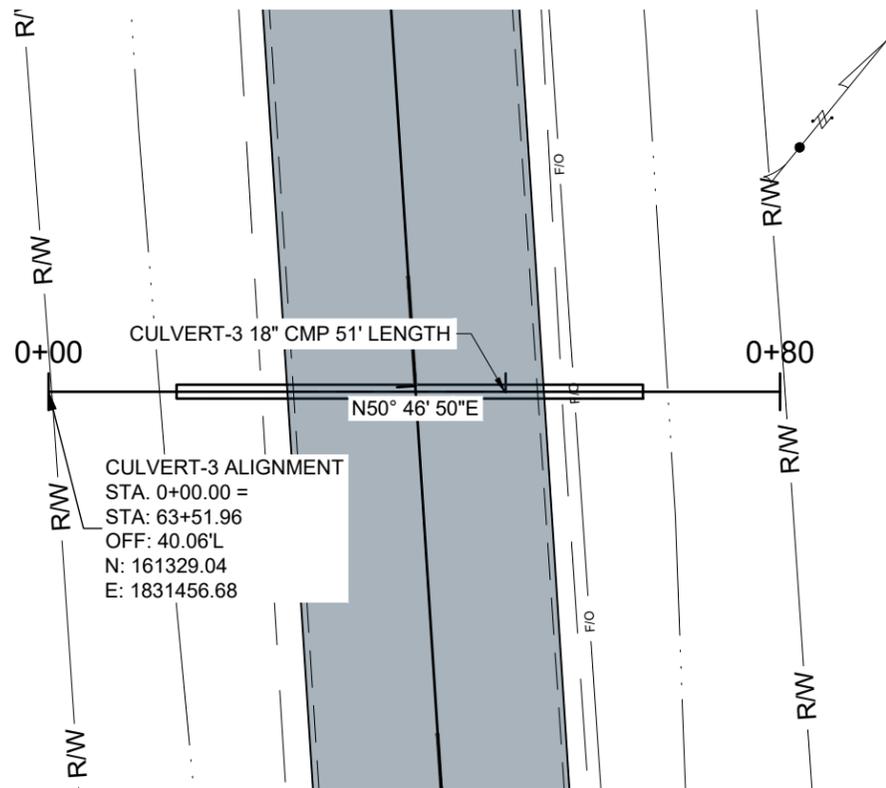
KELLER ASSOCIATES

PROJECT NO. A022(434)	CULVERT PLAN & PROFILE STC-2847, OLD HWY 81 S
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English

COUNTY CASSIA
KEY NUMBER 22434
SHEET 14 OF 19

Registered Professional Engineer
 12490
 8/15/2025
 STATE OF IDAHO
 NATHAN CLEAVER



REVISIONS			
NO.	DATE	BY	DESCRIPTION

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DETAILED D. WALLERY	
DRAWING CHECKED N. CLEAVER	

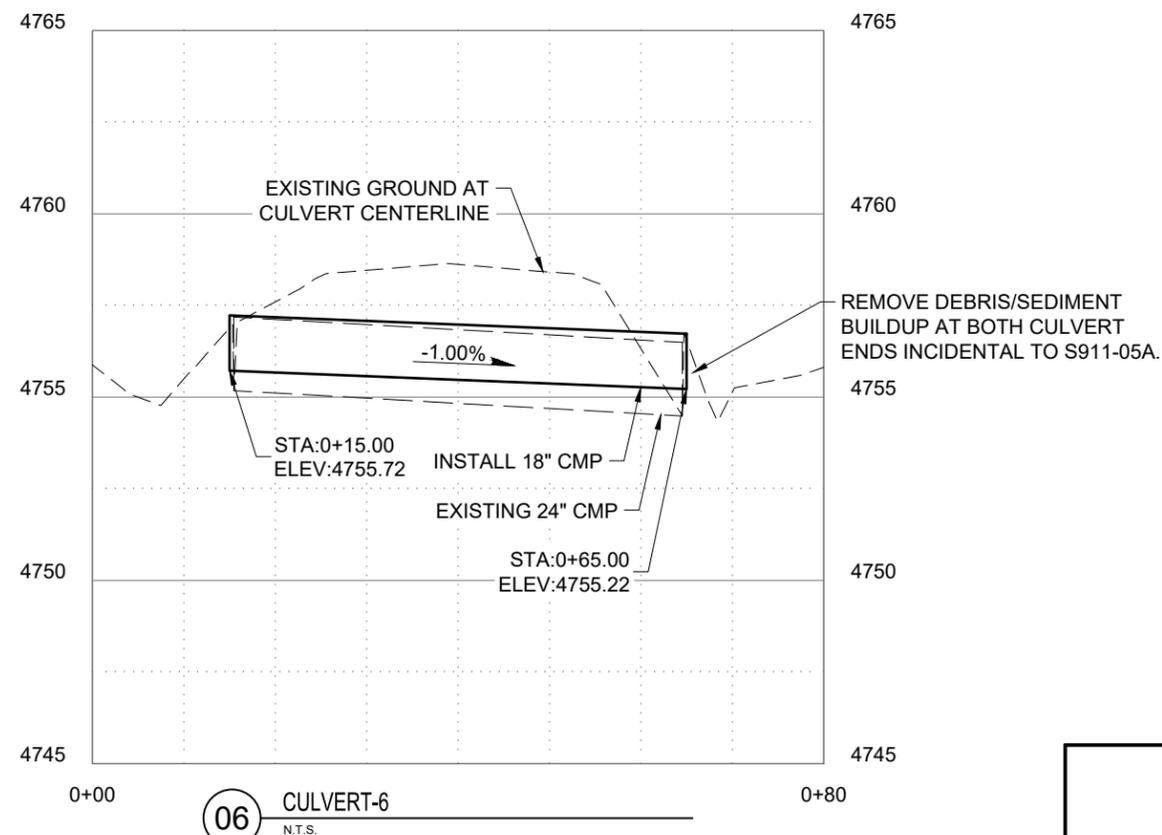
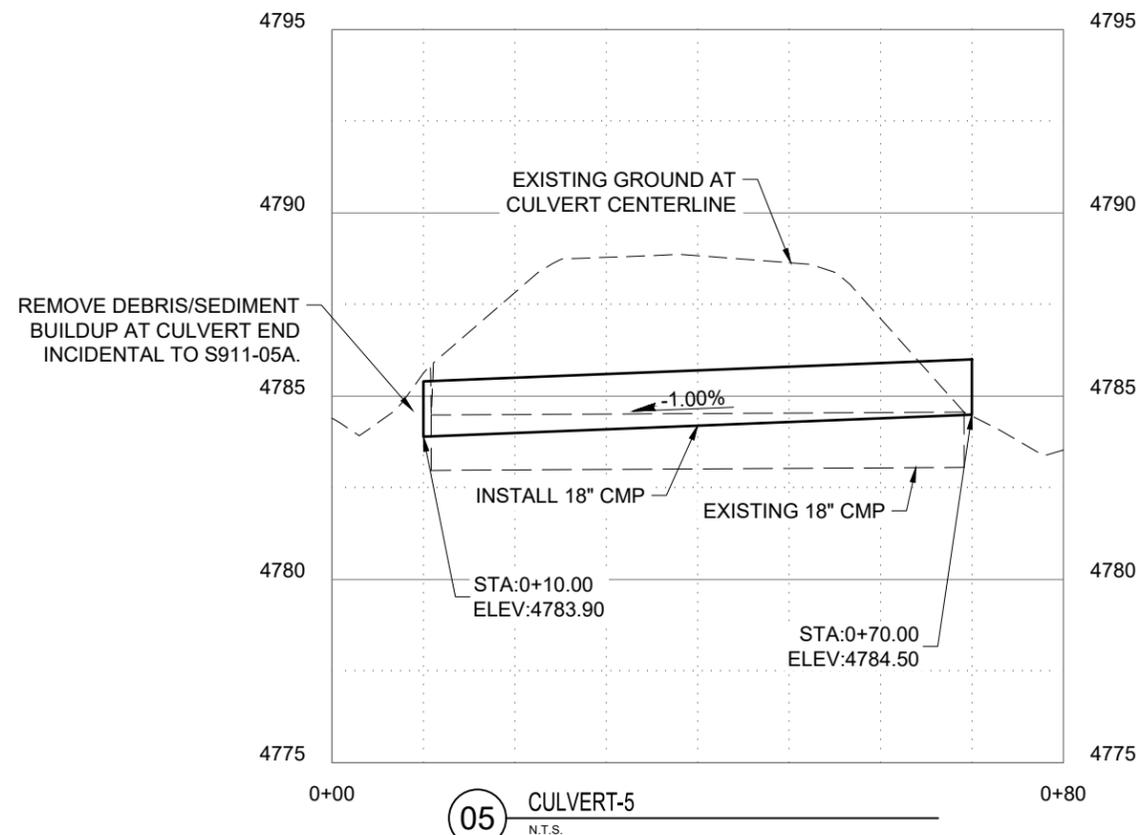
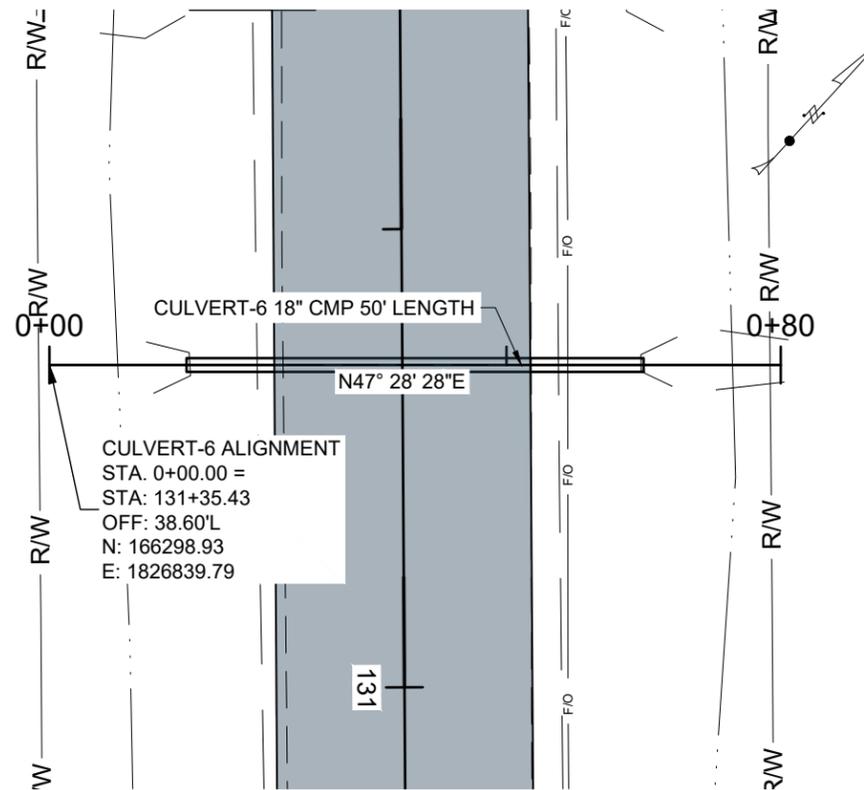
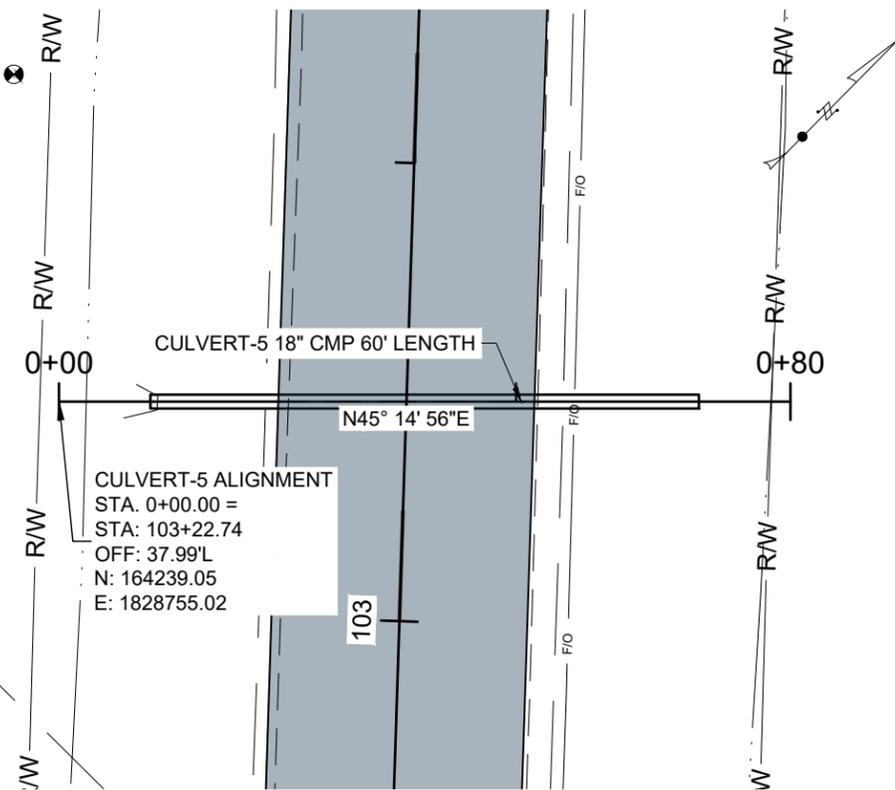
IDAHO TRANSPORTATION DEPARTMENT

KELLER ASSOCIATES

PROJECT NO. A022(434)	CULVERT PLAN & PROFILE STC-2847, OLD HWY 81 S
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English
COUNTY CASSIA
KEY NUMBER 22434
SHEET 15 OF 19

Registered Professional Engineer
 State of Idaho
 12490
 8/15/2025
 NATHAN CLEAVER



05 CULVERT-5
 N.T.S.

06 CULVERT-6
 N.T.S.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

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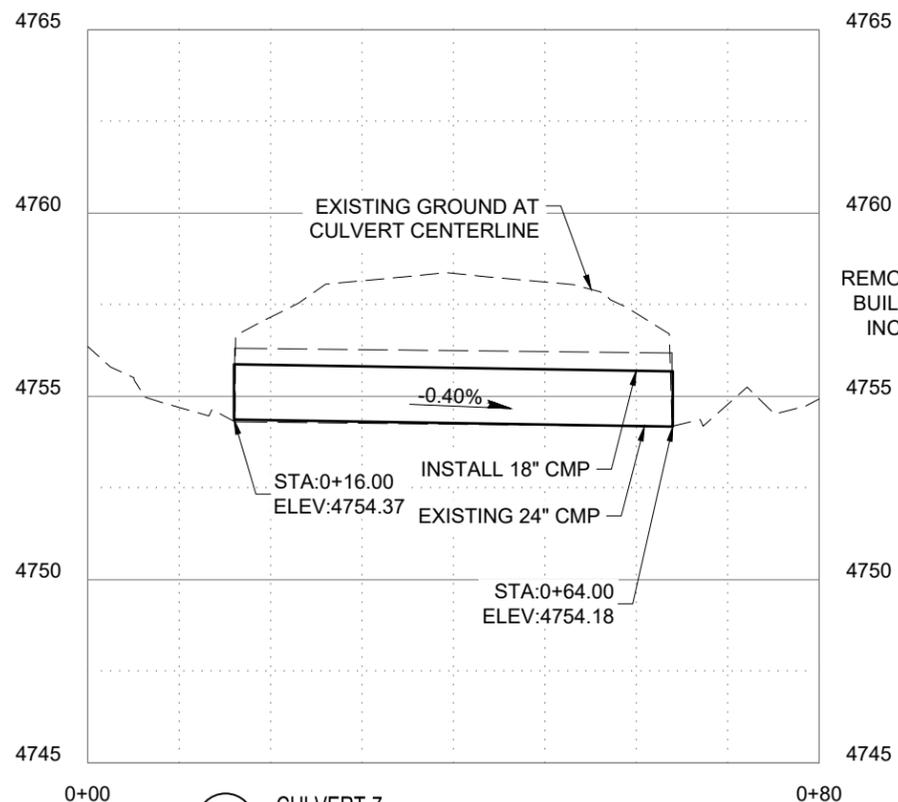
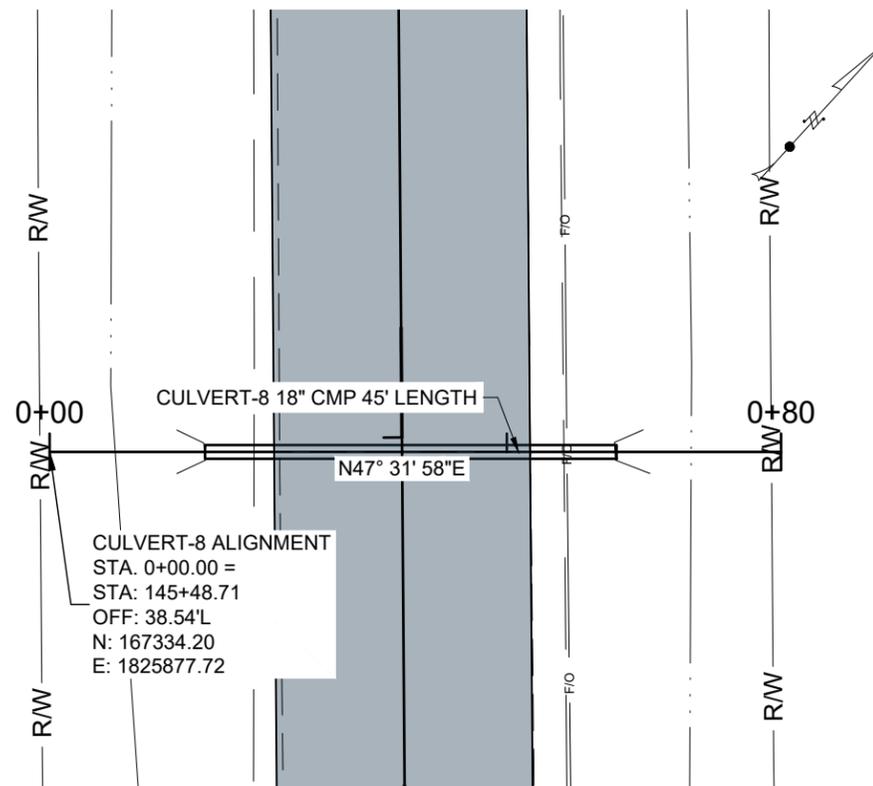
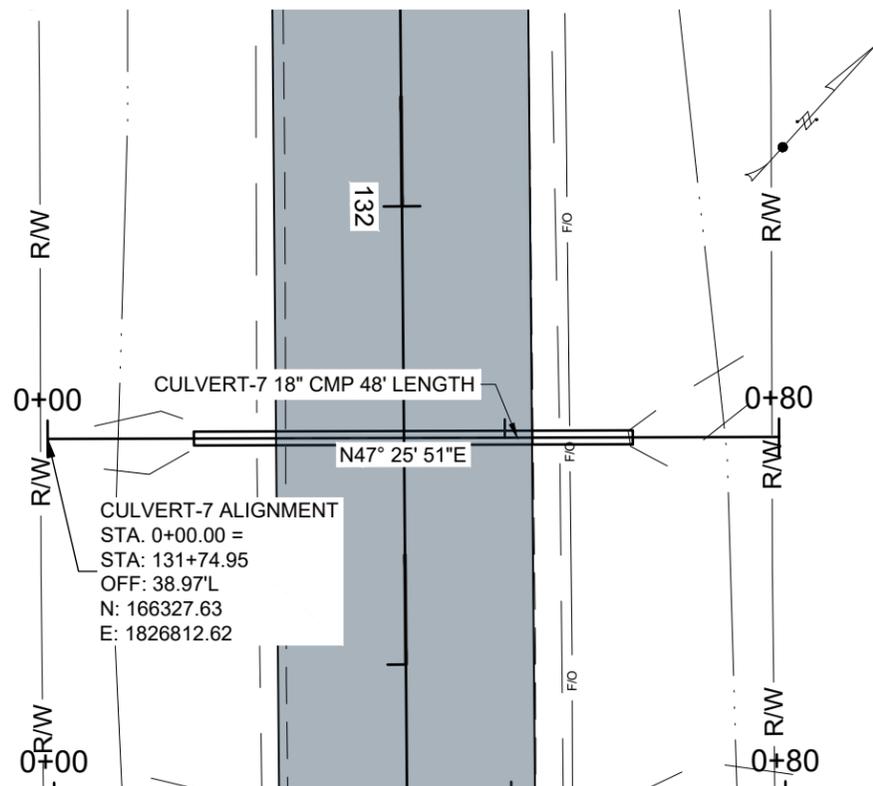
IDAHO TRANSPORTATION DEPARTMENT

 KELLER ASSOCIATES

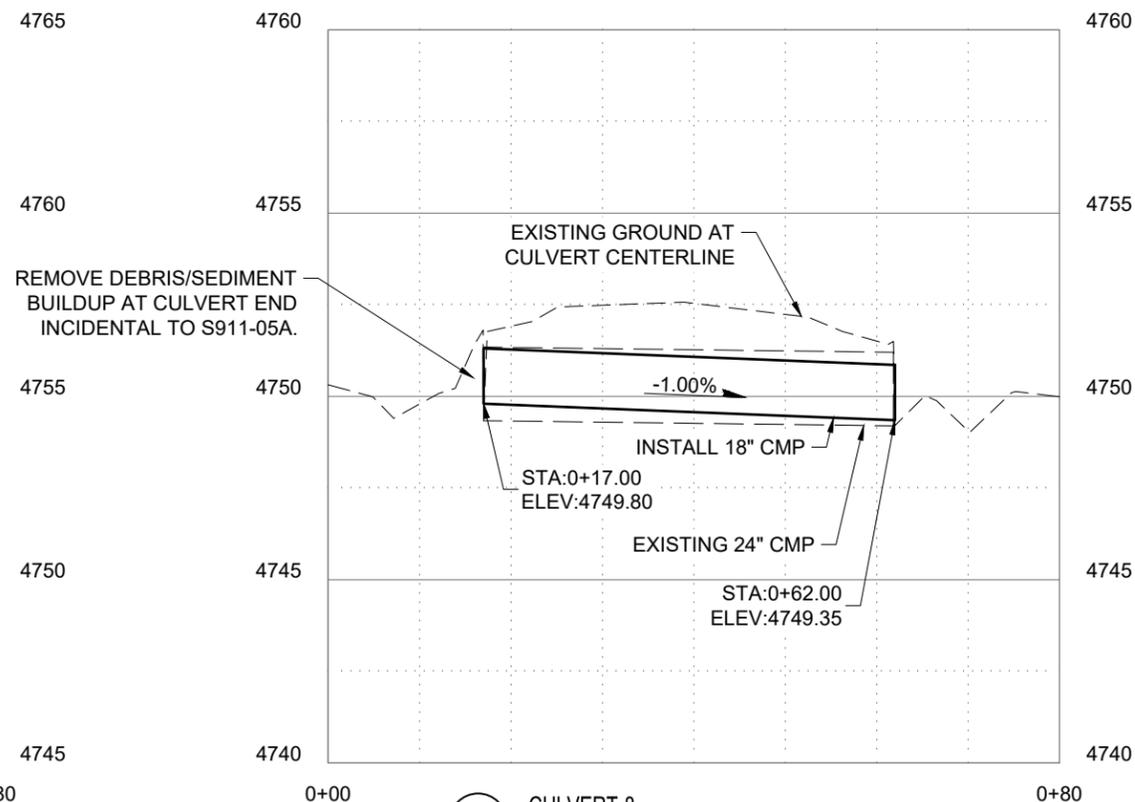
PROJECT NO. A022(434)	CULVERT PLAN & PROFILE STC-2847, OLD HWY 81 S
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English
 COUNTY CASSIA
 KEY NUMBER 22434
 SHEET 16 OF 19

Professional Engineer
 Registered Professional Engineer
 12490
 8/15/2025
 STATE OF IDAHO
 NATHAN CLEAVER



07 CULVERT-7
 N.T.S.



08 CULVERT-8
 N.T.S.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY CADD FILE NAME 22434_CVPP_001 DRAWING DATE: 2/21/25
DESIGN CHECKED E. HULSLANDER	
DETAILED D. WALLERY	
DRAWING CHECKED N. CLEAVER	

IDAHO TRANSPORTATION DEPARTMENT

 KELLER ASSOCIATES

PROJECT NO. A022(434)	CULVERT PLAN & PROFILE STC-2847, OLD HWY 81 S
--------------------------	--

English
 COUNTY CASSIA
 KEY NUMBER 22434
 SHEET 17 OF 19

Professional Engineer
 Registered Professional Engineer
 12490
 8/15/2025
 STATE OF IDAHO
 NATHAN CLEAVER

SIGN SUMMARY						
CLASS "B" SIGNING						
TYPE	LEGEND	WIDTH (IN.)	HEIGHT (IN.)	SQ. FT.	QUANT. REQ'D.	TOTAL SQ. FT.
G20-4	PILOT CAR FOLLOW ME	36	18	4.5	2	9
W8-7	LOOSE GRAVEL	48	48	16	1	16
W13-1P	35 MPH	18	18	2.25	1	2.25
W20-1	ROAD WORK AHEAD	48	48	16	2	32
W20-4	ONE LANE ROAD AHEAD	48	48	16	2	32
W20-7	FLAGGER	48	48	16	2	32
					SUBTOTAL SQ. FT.	82.25
					20% CONTIGENCY	16.45
					TOTAL SQ. FT.	99

SUMMARY OF TRAFFIC CONTROL ITEMS			
ITEM NUMBER	DESCRIPTION	QUANTITY	UNIT
626-010A	TEMPORARY TRAFFIC CONTROL SIGNS	99	SF
626-050A	DRUMS	10	EACH
626-105A	TEMPORARY TRAFFIC CONTROL MAINTENANCE	320	HR
626-120A	FLAGGER CONTROL	420	HR
626-125A	PILOT CAR	210	HR
626-135A	WEIGHTED BASE TUBULAR MARKERS	140	EACH

NOTES:

1. MEET OR EXCEED THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS ADOPTED BY THE STATE.
2. SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL IF THE TRAFFIC CONTROL PLAN AS SHOWN DOES NOT CONFORM TO THE CONTRACTOR'S METHOD OF OPERATION.
3. REMOVE CONFLICTING SIGNS DURING CONSTRUCTION OR COVER USING AN APPROVED METHOD. BLACK PLASTIC WILL NOT BE ACCEPTED. SIGNS DAMAGED BY THE CONTRACTOR WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
4. ALL DISTANCES SHOWN BETWEEN SIGNS ARE MINIMUMS. ADJUST SIGN SPACINGS IN THE FIELD DEPENDING ON PREVAILING CONDITIONS AND/OR CONFLICTS WITH EXISTING SIGNS.
5. REMOVE OR LAY DOWN INACTIVE/UNUSED SIGNS AND SIGN STANDS AT LEAST 15 FEET FROM THE TRAVELED WAY.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY CADD FILE NAME 22434_TTCP_001 DRAWING DATE: 6/19/25
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DETAILED P. TARRICONE	
DRAWING CHECKED N. CLEAVER	

IDAHO
TRANSPORTATION
DEPARTMENT



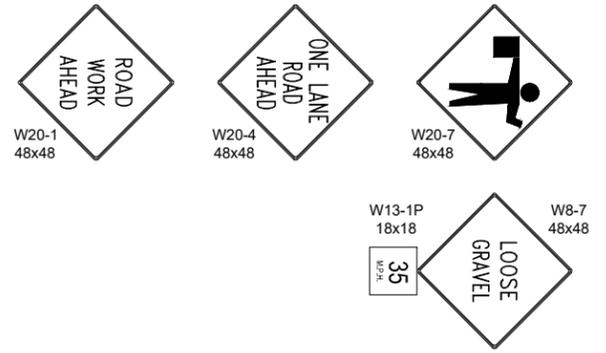
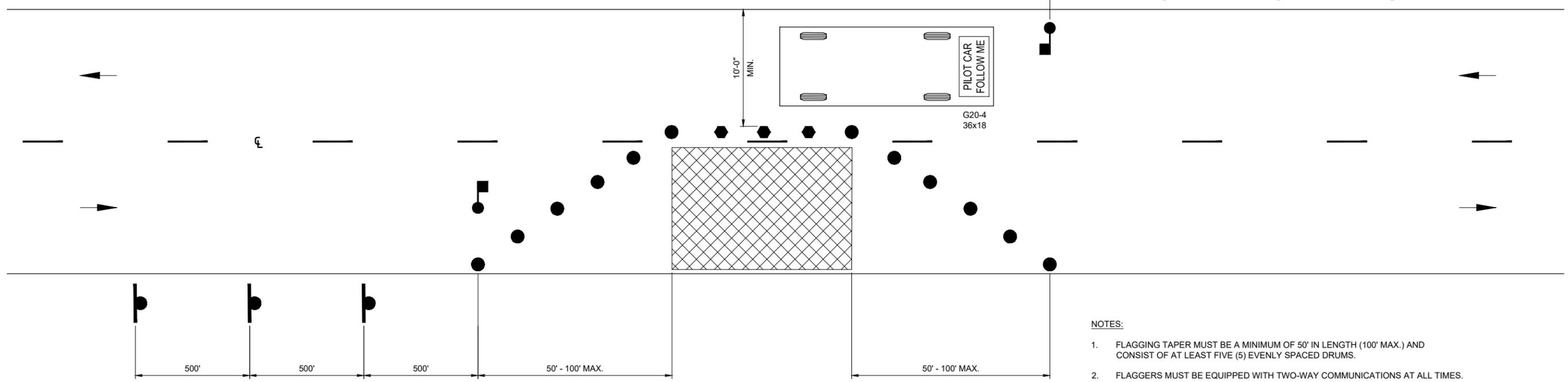
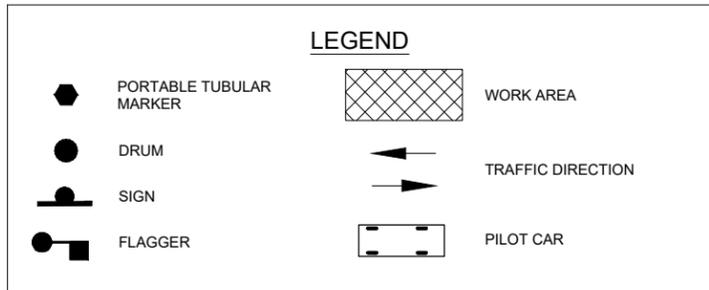
KELLER ASSOCIATES

PROJECT NO.	A022(434)
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TEMPORARY TRAFFIC CONTROL SUMMARY	STC-2847, OLD HWY 81 S
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English
COUNTY CASSIA
KEY NUMBER 22434
SHEET 18 OF 19

PROFESSIONAL ENGINEER
 REGISTERED
 9D6C2313A7C742D...
12490
 8/15/2025
 STATE OF IDAHO
NATHAN CLEAVER



W8-7 AND W13-1P SIGN ASSEMBLY USED FOR WEEKDAY AFTER HOURS TRAFFIC OPERATIONS, NO GRAVEL SURFACES ALLOWED OVER WEEKENDS

- NOTES:**
1. FLAGGING TAPER MUST BE A MINIMUM OF 50' IN LENGTH (100' MAX.) AND CONSIST OF AT LEAST FIVE (5) EVENLY SPACED DRUMS.
 2. FLAGGERS MUST BE EQUIPPED WITH TWO-WAY COMMUNICATIONS AT ALL TIMES.
 3. TRAFFIC CONTROL DEVICE SPACING, TAPER, AND BUFFER LENGTHS MUST BE IN ACCORDANCE WITH THE LATEST VERSION OF THE MUTCD.
 4. REMOVE W20-4 AND W20-7 TEMPORARY TRAFFIC CONTROL SIGNS AND TAPER DRUMS FROM THE ROADWAY AT NIGHT AND OVER WEEKENDS. LEAVE W20-1 TEMPORARY TRAFFIC CONTROL SIGNS AND TUBULAR MARKERS IN PLACE UNTIL PERMANENT PAVEMENT MARKING HAS BEEN APPLIED.
 5. GRADE AND COMPACT GRAVEL SURFACES THAT ARE LEFT OVERNIGHT.
 6. ONLY LEAVE PAVED SURFACES OVER WEEKENDS.
 7. USE PILOT CAR DURING CRABS ONE-LANE, TWO-WAY TRAFFIC OPERATIONS. USE ONLY FLAGGERS FOR CULVERT REPLACEMENT OPERATIONS.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. TARRICONE	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED E. HULSLANDER	CADD FILE NAME 22434 TTCP_001
DETAILED P. TARRICONE	DRAWING DATE: 8/11/25
DRAWING CHECKED N. CLEAVER	

IDAHO TRANSPORTATION DEPARTMENT

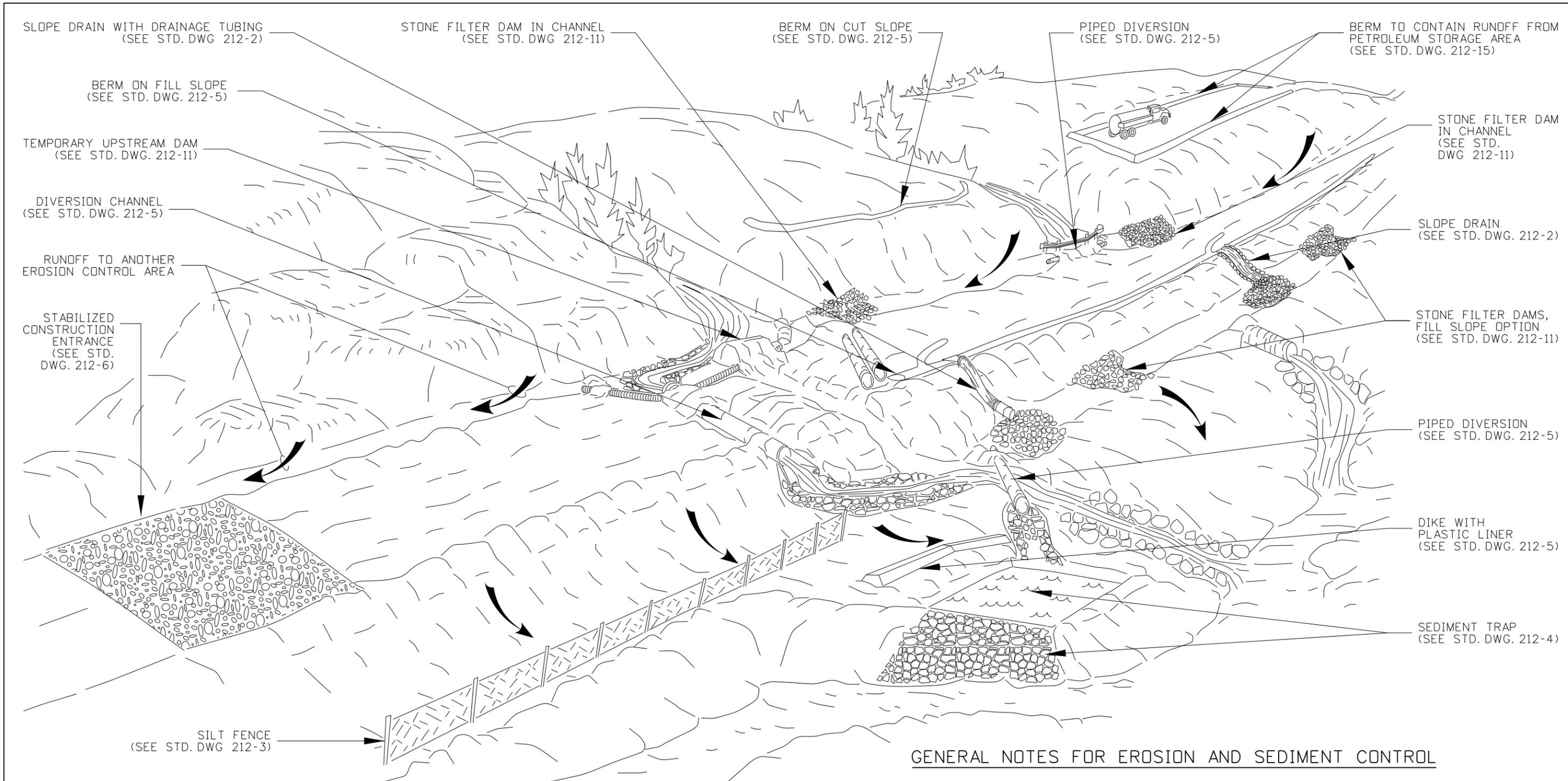
KELLER ASSOCIATES

PROJECT NO. A022(434)

TEMPORARY TRAFFIC CONTROL PLAN STC-2847, OLD HWY 81 S
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English
COUNTY CASSIA
KEY NUMBER 22434
SHEET 19 OF 19

Signed by:
Nathan Cleaver



GENERAL NOTES FOR EROSION AND SEDIMENT CONTROL

1. USE THE EROSION AND SEDIMENT CONTROL STANDARD DRAWINGS IN CONJUNCTION WITH THE ITD BEST MANAGEMENT PRACTICES MANUAL.
2. THE PLACEMENT OF EROSION CONTROL MEASURES IS SITE SPECIFIC. OBTAIN THE ENGINEER'S APPROVAL OF THE EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO INSTALLATION.
3. EROSION AND SEDIMENT CONTROL MEASURES PLACEMENT AND INSTALLATION MAY BE CONTROLLED BY THE NPDES, 404 PERMIT OR CONTRACT SPECIFICATIONS.
4. DRAWING NOT TO SCALE

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	9-93	MSM	6	12-16	RDL			
2	6-96	MSM	7	02-21	TWF			
3	10-10	KEH						
4	10-11	KEH						
5	12-12	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
 CADD FILE NAME: 212-01_0421.dgn
 DRAWING DATE: APRIL, 1993

IDAHO TRANSPORTATION DEPARTMENT

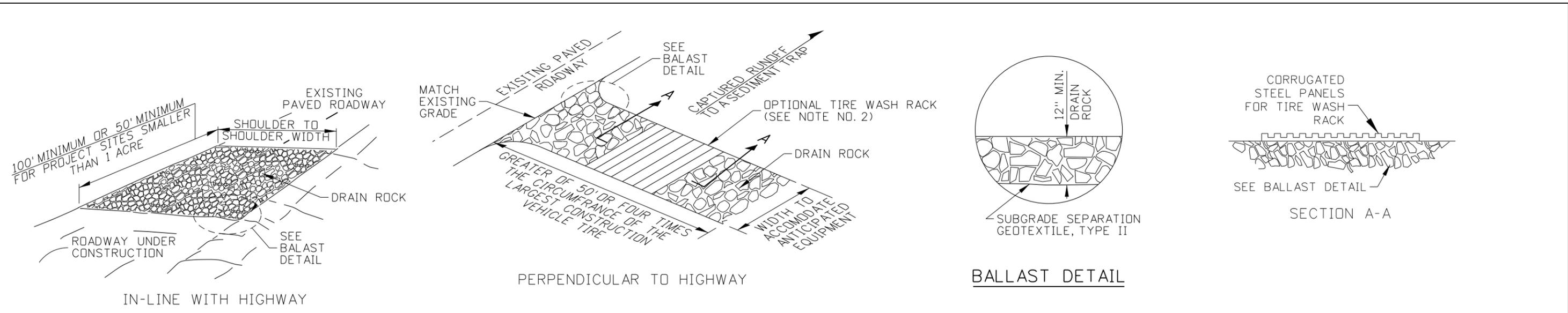


BOISE IDAHO

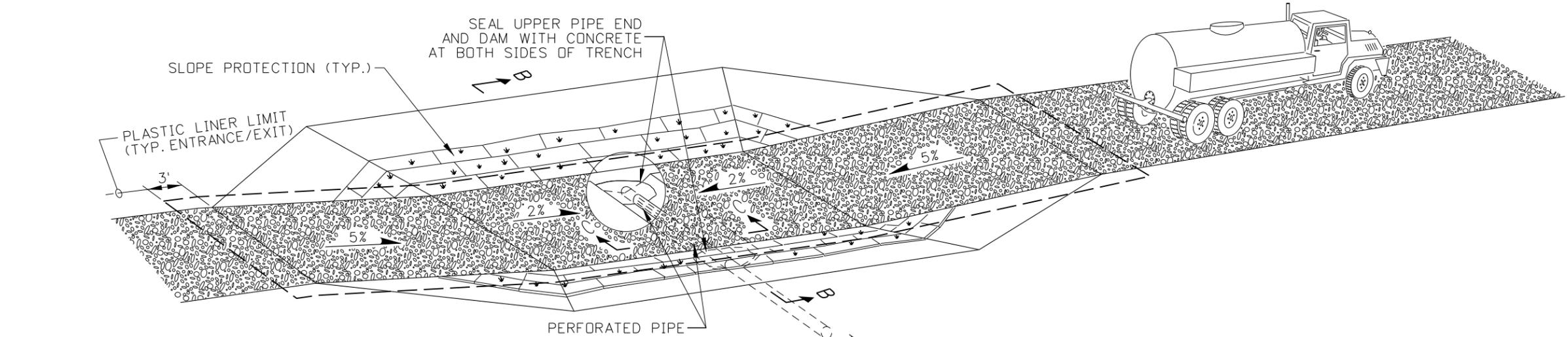
ORIGINAL SIGNED BY: KEVIN SABLAN
 DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING
EROSION AND SEDIMENT CONTROL
 EXAMPLE APPLICATIONS

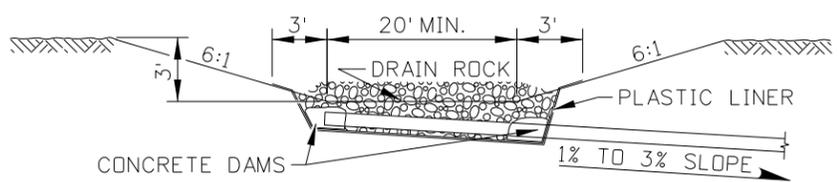
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 212-1
 SHEET 1 OF 1



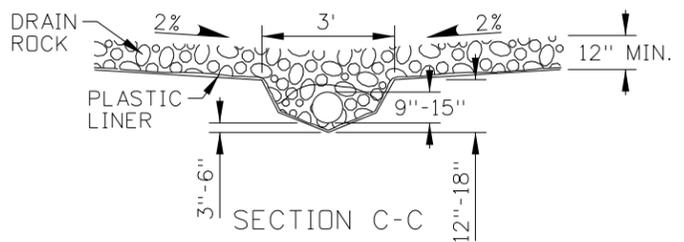
STABILIZED CONSTRUCTION ENTRANCE



VEHICLE AND EQUIPMENT WASHDOWN



SECTION B-B



SECTION C-C

NOTES

1. SEE THE GENERAL NOTES FOR EROSION CONTROL STANDARD DRAWINGS ON 212-1.
2. DRAWING NOT TO SCALE.

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	03-21	TWF						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
 CADD FILE NAME: 212-06_0421.dgn
 DRAWING DATE: NOVEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT



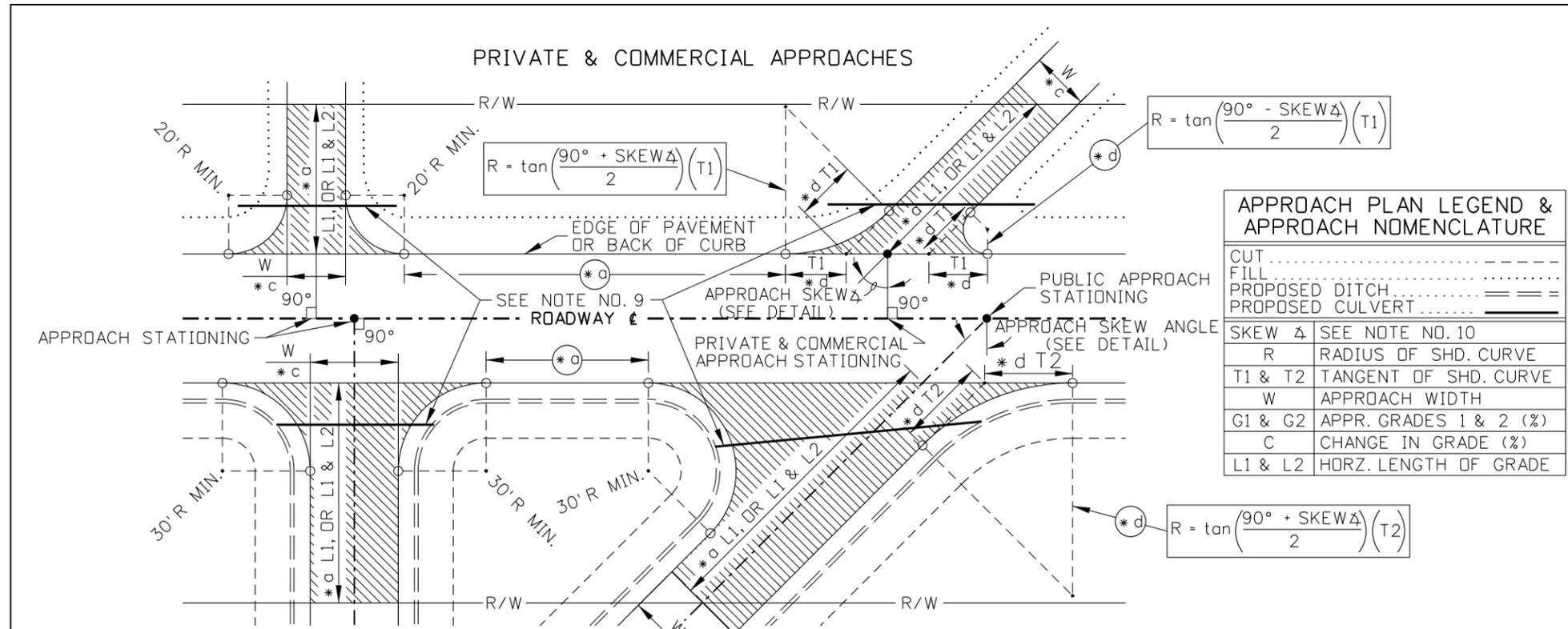
BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN
 DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING
TEMPORARY EROSION AND SEDIMENT CONTROL
STABILIZED CONSTRUCTION ENTRANCE AND VEHICLE WASHDOWN
 REQUIRES STD. DWG. 212-1

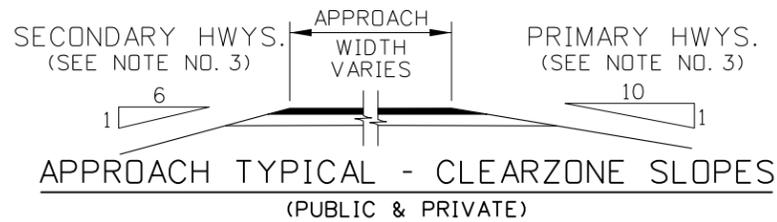
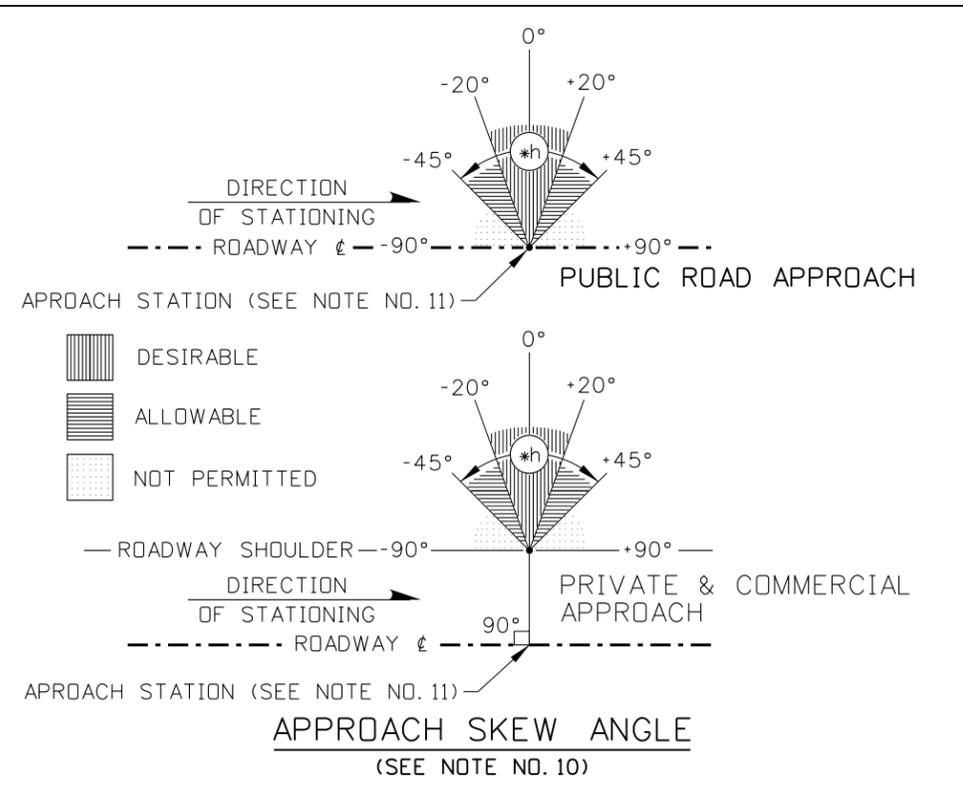
English
 STANDARD DRAWING NO.
212-6
 SHEET 1 OF 1

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho



APPROACH PLAN LEGEND & APPROACH NOMENCLATURE

CUT
FILL
PROPOSED DITCH	=====
PROPOSED CULVERT
SKEW Δ	SEE NOTE NO. 10
R	RADIUS OF SHD. CURVE
T1 & T2	TANGENT OF SHD. CURVE
W	APPROACH WIDTH
G1 & G2	APPR. GRADES 1 & 2 (%)
C	CHANGE IN GRADE (%)
L1 & L2	HORZ. LENGTH OF GRADE



NOTES

- RURAL PRIVATE, COMMERCIAL, AND PUBLIC APPROACHES SHALL BE PAVED TO THE RIGHT-OF-WAY LINE OR TO THE BACK OF THE SHOULDER CURVE (APPROACH RADIUS). FARMYARD AND FIELD APPROACHES THAT ARE OCCASIONALLY USED MAY BE PAVED A MINIMUM OF 5' FROM THE SHOULDER LINE. APPROACHES ON EXISTING UNPAVED HIGHWAYS ARE EXEMPT.
- REFER TO THE ITD ADMINISTRATIVE POLICY 5005 FOR ADDITIONAL INFORMATION ON LOCATION OF APPROACHES.
- WITHIN THE CLEARZONE THE SIDE SLOPES OF APPROACHES SHALL BE A MINIMUM OF 6:1 OF SECONDARY HIGHWAYS AND A MINIMUM OF 10:1 ON PRIMARY HIGHWAYS.
- WHEN THE "MAXIMUM CHANGE IN GRADE" (APPROACH GRADE TABLE) "C" IS EXCEEDED, A MINIMUM 10' VERTICAL CURVE SHALL BE USED IN THE APPROACH PROFILE.
- THE % GRADE OF "G2" SHALL BE A MAXIMUM OF 7% FOR FLAT TERRAIN, 11% FOR ROLLING TERRAIN, OR 15% FOR MOUNTAINOUS.
- APPROACH GRADES EXCEEDING 10% ARE NOT RECOMMENDED BECAUSE EMERGENCY VEHICLES MAY BE IMPEDED.
- THE BALLAST REQUIREMENTS OF RURAL APPROACHES SHALL BE AS SHOWN ON THE PLANS.
- WHEN A MAILBOX TURNOUT IS INSTALLED WITH A RURAL APPROACH, STD. DWG. 405-2 IS REQUIRED.
- ALL RURAL PRIVATE AND COMMERCIAL APPROACHES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT THE APPROACH DRAINAGE IS INDEPENDENT AND DOES NOT CONTRIBUTE TO EXISTING HIGHWAY DRAINAGE. ALL RURAL PUBLIC APPROACHES SHALL BE DESIGNED AND CONSTRUCTED TO ADDRESS BOTH THE MAIN HIGHWAY AND APPROACH DRAINAGE.
- THE APPROACH SKEW ANGLE IS THE DEFLECTION ANGLE BETWEEN A LINE PERPENDICULAR TO THE HIGHWAY CENTERLINE AND THE APPROACH CENTERLINE.
- RURAL PRIVATE AND COMMERCIAL APPROACHES ARE REFERENCED LEFT OR RIGHT OF THE HIGHWAY CENTERLINE STATION TO THE CENTER OF THE APPROACH OPENING WHICH IS AT THE EDGE OF PAVEMENT OR BACK OF CURB. A PUBLIC APPROACH STATION OCCURS WHERE THE PUBLIC APPROACH CENTERLINE INTERSECTS THE HIGHWAY CENTERLINE.
- NOT TO SCALE.

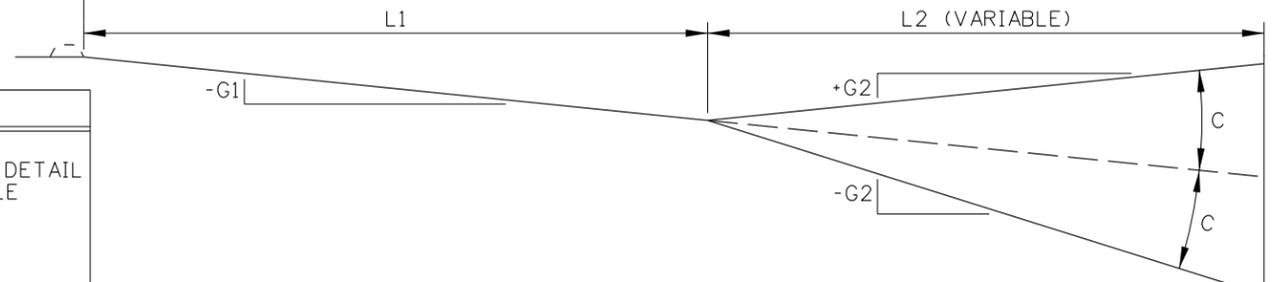
APPROACH GRADE TABLE

TRAFFIC TYPE	GRADE PARAMETER		MAX. CHANGE IN GRADE C	MINIMUM LENGTH L1
	G1 (RANGE)	G2 (MAX.)		
HIGH VOLUME (COMMERCIAL, INDUSTRIAL)	-2% TO -3%	±5%	±3% (*e)	40'
LOW VOLUME (COMMERCIAL, INDUSTRIAL)	-2% TO -5%	±8%	±6%	40'
SINGLE RESIDENTIAL, FARMYARD, FIELD	-2% TO -8%	±15% *g	VEHICLE CLEARANCE	10'
MULTIPLE RESIDENTIAL	-2% TO -8%	±15% *g	±6%	20'
PUBLIC ROAD	-2%	*f	±2%	20'

STANDARD APPROACH WIDTH TABLE

APPR. TYPE	POSTED SPEED (mph)		MIN./MAX. WIDTH	
	≤35	>35	MIN.	MAX.
MULTIPLE RESIDENTIAL	28'	40'	28'	40'
SINGLE RESIDENTIAL, FARMYARD, FIELD	12'	40'	20'	40'
COMMERCIAL (ONE-WAY)	15'	30'	20'	30'
COMMERCIAL (TWO-WAY)	25'	40'	25'	40'
PUBLIC ROAD	28'	N/A	28'	N/A

EDGE OF PAVEMENT AND/OR BACK OF CURB WHEN USED



- SUB-NOTES**
- * a (SEE NOTE NO. 2)
 - * b SEE NOTE NO. 1 & APPROACH PROFILE DETAIL
 - * c SEE STANDARD APPROACH WIDTH TABLE
 - * d T1 = 20' MINIMUM, T2 = 30' MINIMUM
 - * e (SEE NOTE NO. 4)
 - * f (SEE NOTE NO. 5)
 - * g (SEE NOTE NO. 6)
 - * h THE APPROACH Δ IS TO FALL WITHIN THE ALLOWABLE OR DESIRABLE LIMITS. THE DESIRABLE LIMIT IS CONSIDERED THE "SAFEST OPTION."

REVISIONS

NO.	DATE	BY	NO.	DATE	BY
1	01-00	MSM	6	12-05	MSM
2	01-02	MSM	7	06-07	MSM
3	07-02	MSM			
4	10-02	MSM			
5	08-04	MSM			

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 405-1_0607.dgn

DRAWING DATE: SEPTEMBER, 1993

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
ASSISTANT CHIEF ENGINEER (DEVELOPMENT)

ORIGINAL SIGNED BY: STEVEN HUTCHINSON
CHIEF ENGINEER

STANDARD DRAWING

RURAL APPROACHES

English

STANDARD DRAWING NO. 405-1

SHEET 1 OF 1

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

PROFESSIONAL ENGINEER * LAND SURVEYOR

MILFORD MILLER

2240

STATE OF IDAHO

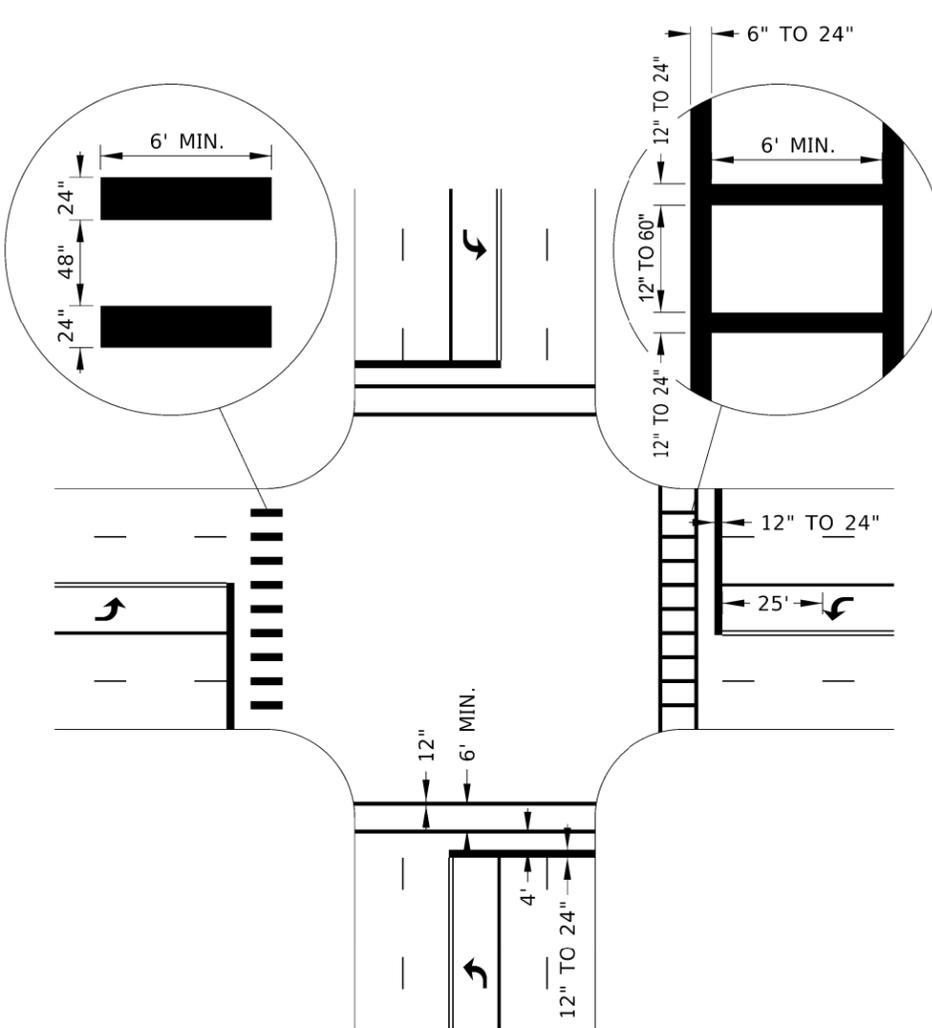
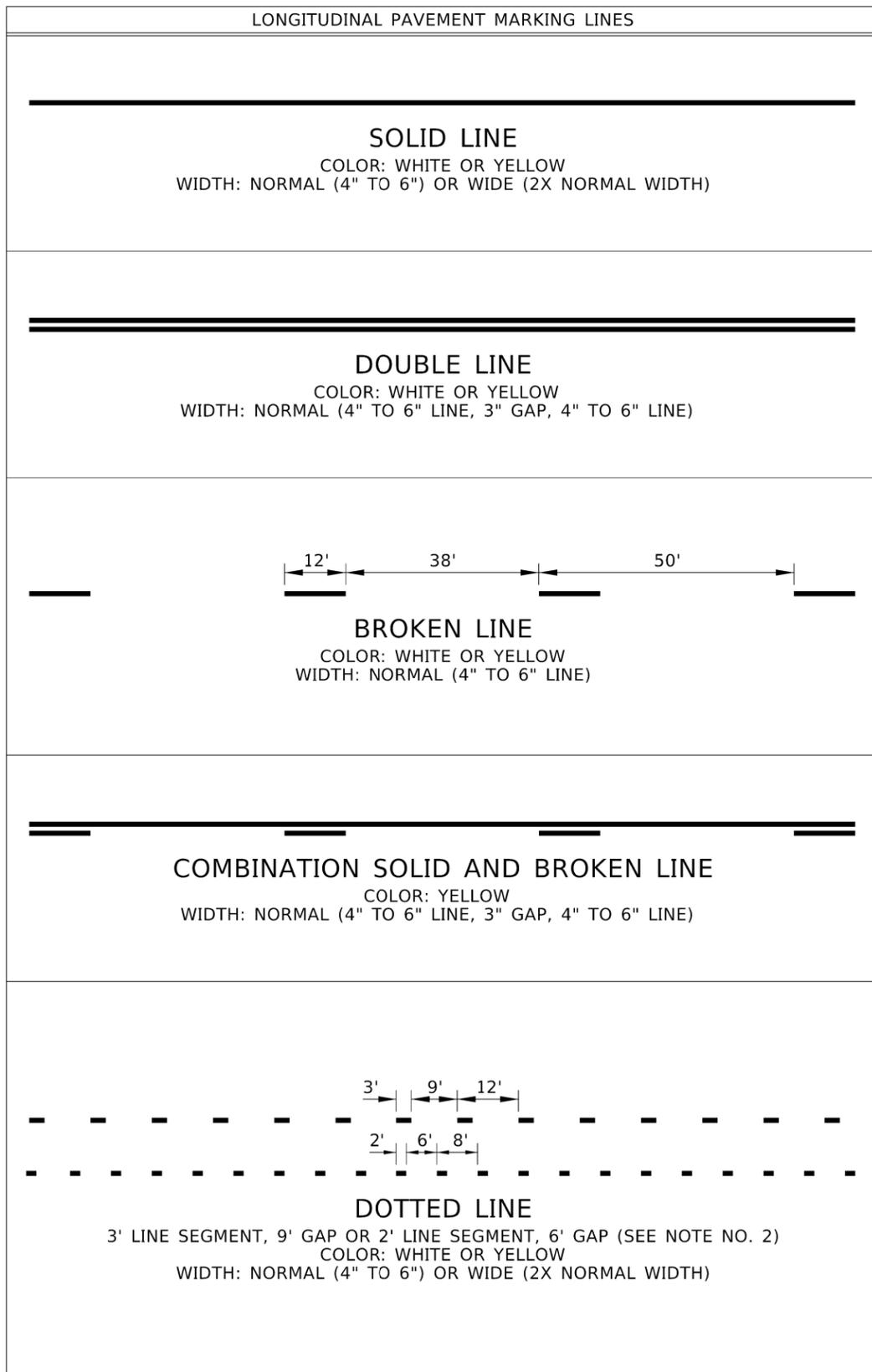
JUNE 19, 2007

NOTES

1. USE WHITE AND YELLOW PAVEMENT MARKINGS AS FOLLOWS:
 - WHITE:
 - A. TO SEPARATE TRAFFIC TRAVELING IN THE SAME DIRECTION.
 - B. THE RIGHT-HAND EDGE OF THE HIGHWAY.
 - C. STOP AND YIELD LINES, CROSSWALK, WORD, SYMBOL, ARROW, AND OTHER MARKINGS
 - YELLOW:
 - A. TO SEPARATE TRAFFIC TRAVELING IN OPPOSITE DIRECTIONS.
 - B. THE LEFT-HAND EDGE DIVIDED HIGHWAYS, ONE-WAY STREETS, OR RAMPS.
 - C. TWO-WAY LEFT-TURN LANES.
2. USE LONGITUDINAL PAVEMENT MARKINGS AS FOLLOWS:
 - A. USE SOLID LINES TO INDICATE THE LEFT OR RIGHT EDGE OF TRAVEL WAY OR TO DISCOURAGE LANE CHANGING.
 - B. USE DOUBLE LINES TO PROHIBIT PASSING OR LANE CHANGING.
 - C. USE BROKEN LINES TO INDICATE PASSING OR LANE CHANGING ARE PERMITTED. USE ONLY THE 12' LINE SEGMENT, 38' GAP PATTERN.
 - D. USE COMBINATION SOLID AND BROKEN LINES TO PROHIBIT PASSING IN ONE DIRECTION WHILE PERMITTING PASSING IN THE OPPOSITE DIRECTION OR TO INDICATE A TWO-WAY LEFT-TURN LANE.
 - E. USE DOTTED LINES AS FOLLOWS:
 - 3' LINE SEGMENT, 9' GAP:
 - I. TO SEPARATE A THROUGH LANE AND A LANE THAT BECOMES A MANDATORY EXIT OR TURN LANE (DROPPED LANE).
 - II. TO SEPARATE THROUGH LANES AND TURN LANES OR RAMPS.
 - III. TO SEPARATE A THROUGH LANE AND AN AUXILIARY LANE TWO MILES OR LESS IN LENGTH BETWEEN FREEWAY ENTRANCE RAMP AND EXIT RAMPS OR ONE MILE OR LESS IN LENGTH BETWEEN INTERSECTIONS.
 - 2' LINE SEGMENT, 6' GAP:
 - I. AS A LANE LINE EXTENSION THROUGH AN INTERSECTION.
3. USE 12' VEHICULAR TRAVEL LANES UNLESS OTHERWISE INDICATED. MEASURE LANE WIDTHS FROM THE CENTER OF LINE TO THE CENTER OF LINE.
4. THE PAVEMENT MARKING APPLICATION EXAMPLES PRESENTED SHOW COMMON APPLICATION. MODIFY TO ACCOMODATE OTHER SITUATIONS.
5. METHODS FOR DETERMINING TURN-LANE LENGTH ARE DESCRIBED IN THE ITD TRAFFIC MANUAL.
6. USE 15W WHEN SPEEDS ARE 45 MPH OR MORE. USE 8W WHEN SPEEDS ARE 40 MPH OR LESS. W IS THE OFFSET WIDTH IN FEET.
7. USE DISTANCE L WHEN PRACTICAL. USE THE FOLLOWING EQUATIONS TO DETERMINE L:

40 MPH OR LESS SPEEDS	45 MPH OR MORE SPEEDS
$L = WS^2/60$	$L = WS$
$W =$ OFFSET WIDTH IN FEET	
$S =$ POSTED SPEED LIMIT, OFF-PEAK 85TH-PERCENTILE SPEED, OR OPERATING SPEED IN MPH	

 - A. ON PARALLEL ENTRANCE RAMPS, A TAPER LENGTH OF 300 FEET IS SUITABLE FOR DESIGN SPEEDS UP TO 70 MPH.
8. USE LANE-USE ARROWS AND WORD PAVEMENT MARKINGS AS SHOWN. SOME MARKINGS ARE OPTIONAL.
 - A. USE TWO OR MORE LANE-USE ARROWS UNLESS THE TURN-LANE LENGTH IS LESS THAN 75 FEET. IF SHORTER THAN 75 FEET, THE DOWNSTREAM ARROW CAN BE OMITTED.
 - B. USE TWO-WAY LEFT-TURN ARROW MARKINGS NEAR THE BEGINNING OF A TWO-WAY LEFT-TURN LANE AND EVERY 1/2 MILE THEREAFTER.
9. BREAK EDGE AND LANE LINES AT INTERSECTIONS WITH MINOR ROADS. CONTINUE EDGE AND LANE LINES THROUGH DRIVEWAY APPROACHES.
10. USE THE EXAMPLE EXIT RAMP WITH LANE-DROP WHEN THE LENGTH OF AN AUXILIARY DECELERATION LANE EXCEEDS 1/2 MILE.
11. ON TWO-LANE HIGHWAYS, PAINT THE CENTERLINE IN ONE DIRECTION IN ASCENDING STATION AND MILEPOST DIRECTION.
 - A. WHEN RUMBLE STRIPS ARE PRESENT OR AFTER PAVEMENT SURFACE TREATMENTS, ALTER PAINT TRUCK AND PAINT SECOND APPLICATION IN OPPOSITE DIRECTION.
12. DRAWINGS NOT TO SCALE.



EXAMPLE STOP LINE AND CROSSWALK DETAIL

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	
1	03-20	RDL							
2	03-21	PBH							
3	03-25	RDL							

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CADD FILE NAME: 630-1_0425.dgn

DRAWING DATE: DECEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT

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BOISE IDAHO

ORIGINAL SIGNED BY: MONICA CRIDER
HIGHWAY DESIGN ENGINEER

STANDARD DRAWING
PAVEMENT MARKINGS

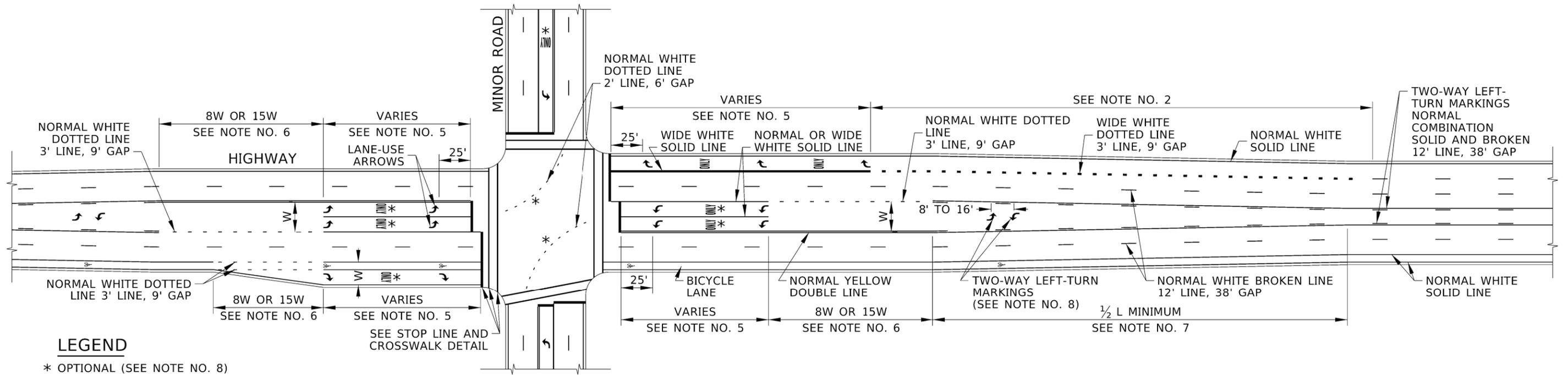
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STANDARD DRAWING NO.
630-1

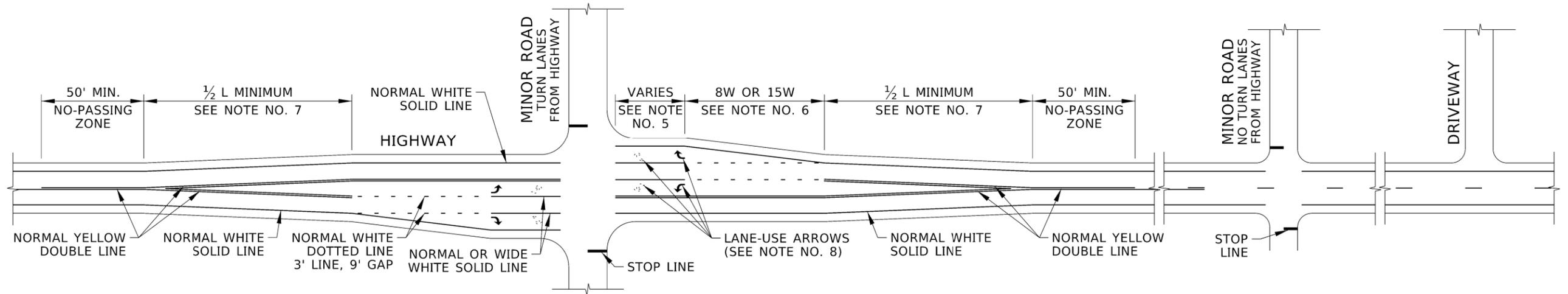
SHEET **1** OF **4**

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

RYAN D. LANCASTER



EXAMPLE URBAN HIGHWAY PAVEMENT MARKINGS



EXAMPLE RURAL HIGHWAY PAVEMENT MARKINGS

SEE NOTE NO. 9

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REVISIONS									
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1	03-20	RDL							
2	03-21	PBH							
3	03-25	RDL							

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STANDARD DRAWING
PAVEMENT MARKINGS

ORIGINAL SIGNED BY: MONICA CRIDER
 HIGHWAY DESIGN ENGINEER

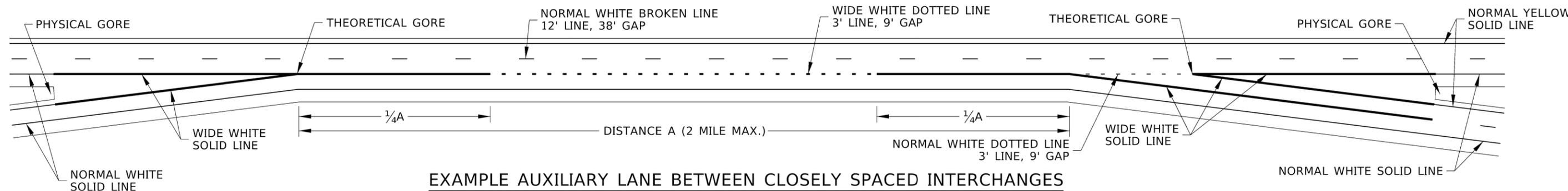
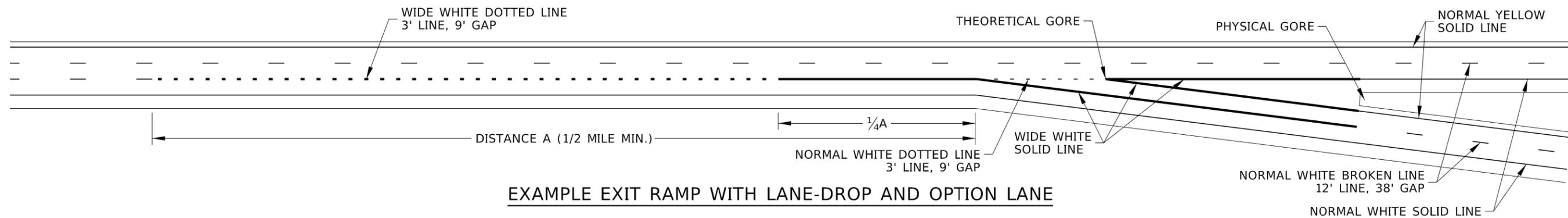
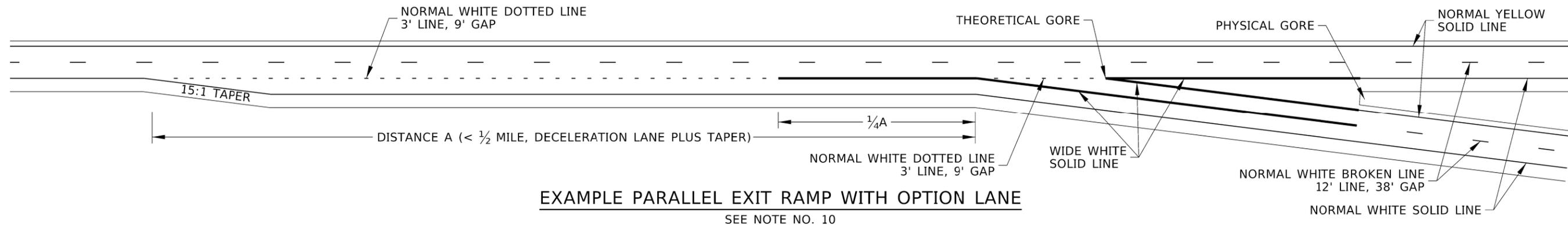
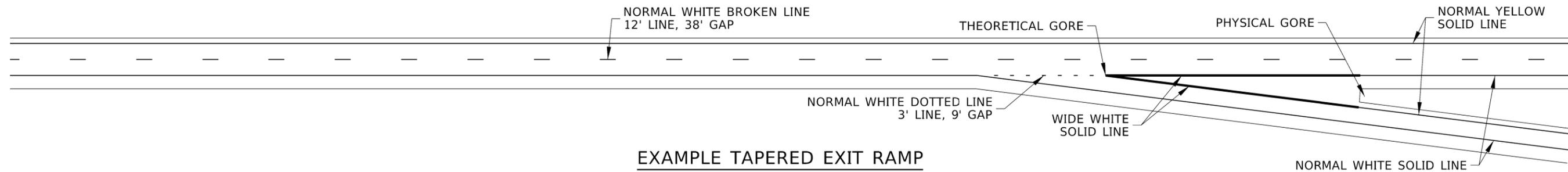
STANDARD DRAWING NO.
630-1

SHEET 2 OF 4

ENGLISH

PROFESSIONAL ENGINEER
 RYAN D. LANCASTER
 LICENSED
 ORIGINAL SIGNED BY
 RYAN D. LANCASTER
 APRIL 9, 2023
 STATE OF IDAHO





REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	
1	03-20	RDL							
2	03-21	PBH							
3	03-25	RDL							

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ORIGINAL SIGNED BY: MONICA CRIDER

HIGHWAY DESIGN ENGINEER

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PAVEMENT MARKINGS

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ENGLISH

STANDARD DRAWING NO. 630-1

SHEET 3 OF 4

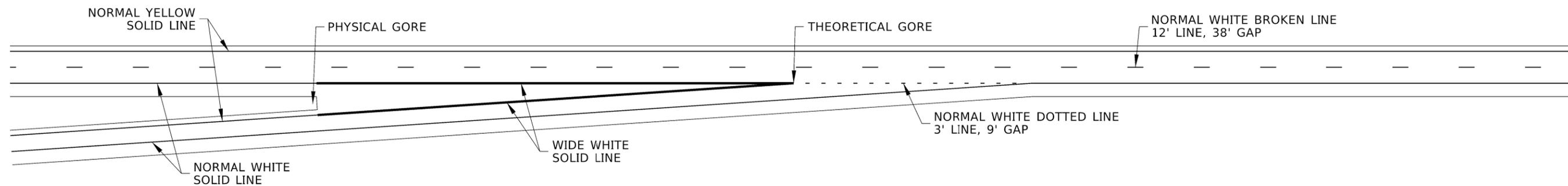
PROFESSIONAL ENGINEER

RYAN D. LANCASTER

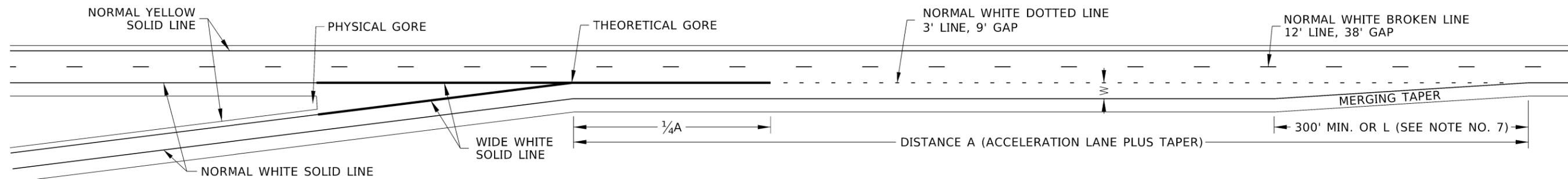
STATE OF IDAHO

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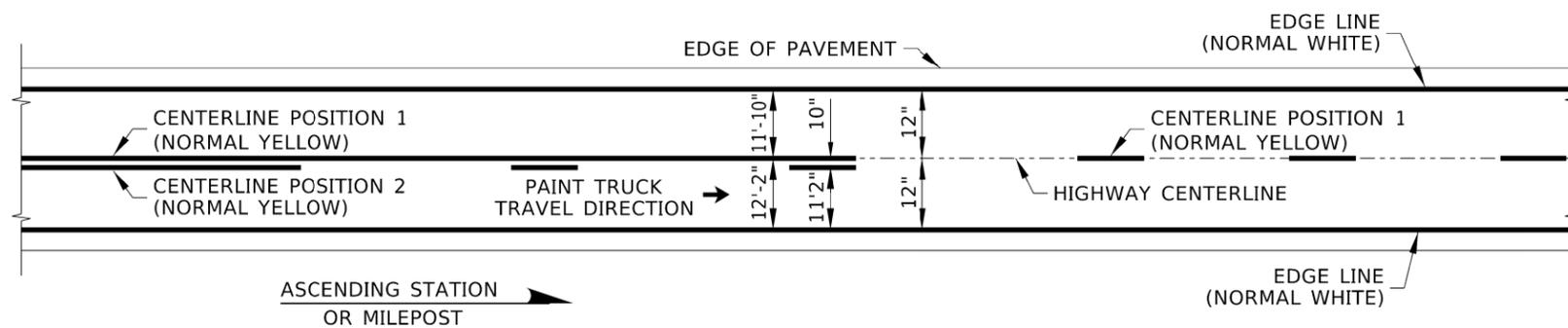




EXAMPLE TAPERED ENTRANCE RAMP

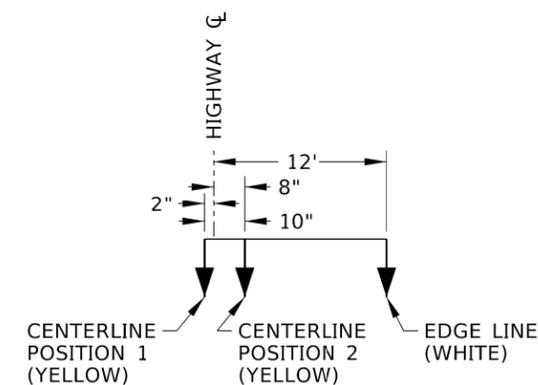


EXAMPLE PARALLEL ENTRANCE RAMP



PAVEMENT MARKINGS ON TWO-WAY HIGHWAYS

DIMENSIONS TO CENTER OF PAVEMENT MARKINGS
SEE NOTE NO. 11 AND PAINT TRUCK SETUP DETAIL



PAINT TRUCK SETUP DETAIL

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	
1	03-20	RDL							
2	03-21	PBH							
3	03-25	RDL							

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ORIGINAL SIGNED BY: MONICA CRIDER
HIGHWAY DESIGN ENGINEER

STANDARD DRAWING
PAVEMENT MARKINGS

ENGLISH
STANDARD DRAWING NO. 630-1
SHEET 4 OF 4

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

PROFESSIONAL ENGINEER
RYAN D. LANCASTER
STATE OF IDAHO
LICENSE NO. 43683
DATE ORIGINAL SIGNED BY: APRIL 9, 2023