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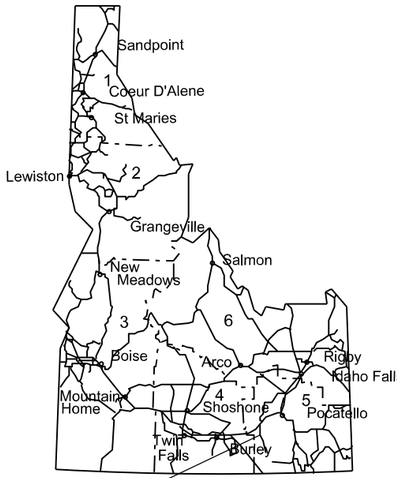
1-25	STANDARD DRAWINGS

IDAHO
TRANSPORTATION DEPARTMENT

PLAN AND PROFILE OF PROPOSED

STC-2837, YALE RD STAGE 4; MP 12.4 TO MP 13.6
FEDERAL AID PROJECT NO. A019(637)
KEY NO. 19637
CASSIA COUNTY

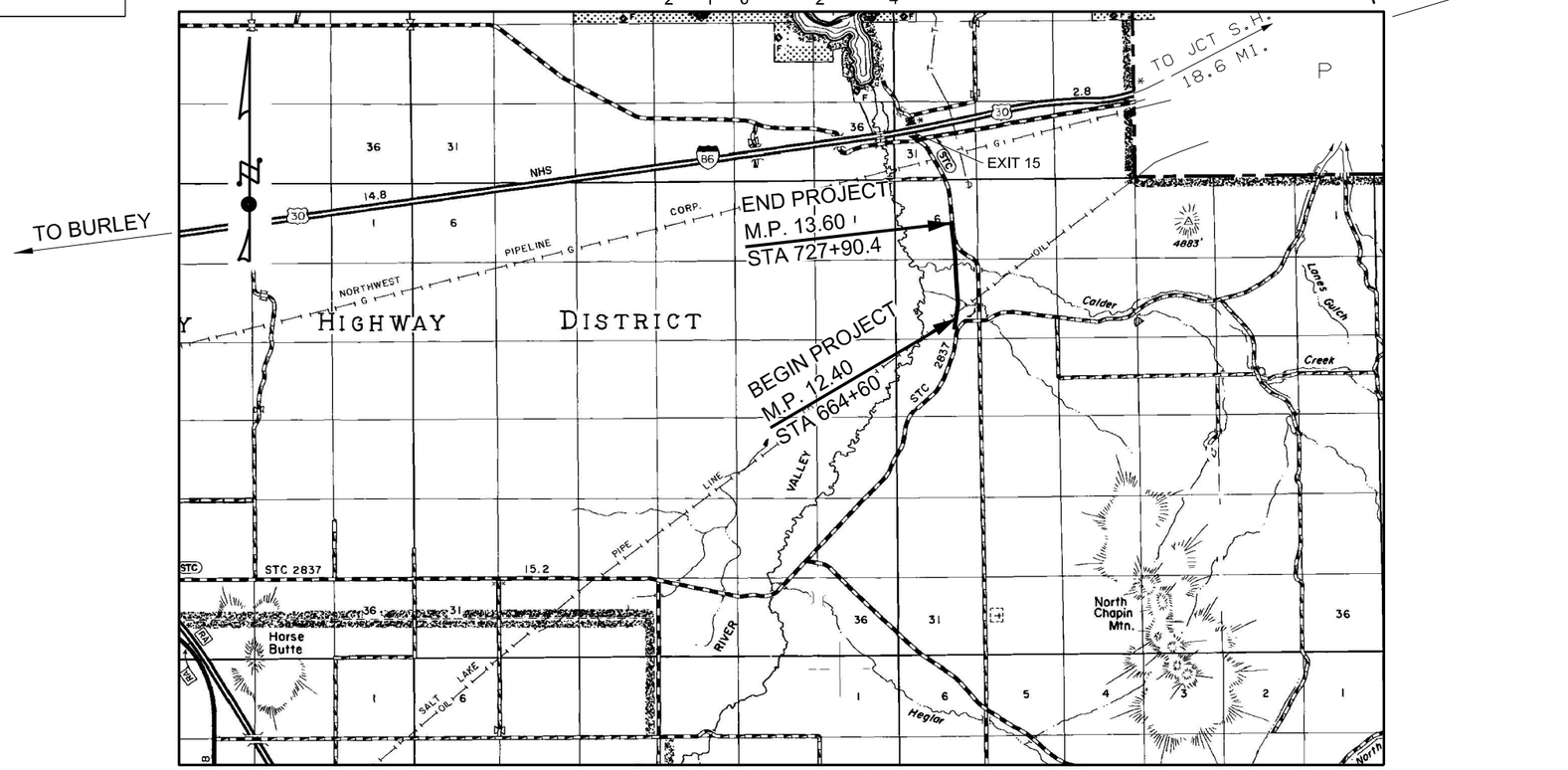
DECEMBER 2025



SCALES IN FEET

HORIZONTAL 20 10 0 20 40 FEET

VERTICAL 2 1 0 2 4 FEET



VICINITY MAP SCALE

1 1/2 0 1 2 MILES

DESIGN DESIGNATION

ADT 2024	355
ADT 2044	428
DHV 2024	43
DHV 2044	52
D	60/40%
V	55 MPH
TRUCKS:	41%
ADT 2024	147
ADT 2044	177
DHV 2024	18
DHV 2044	21

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 19637_TITL_001

DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

CIVIL SCIENCE

PROJECT NO.: A019(637)

TITLE SHEET: STC-2837, YALE RD STG 4

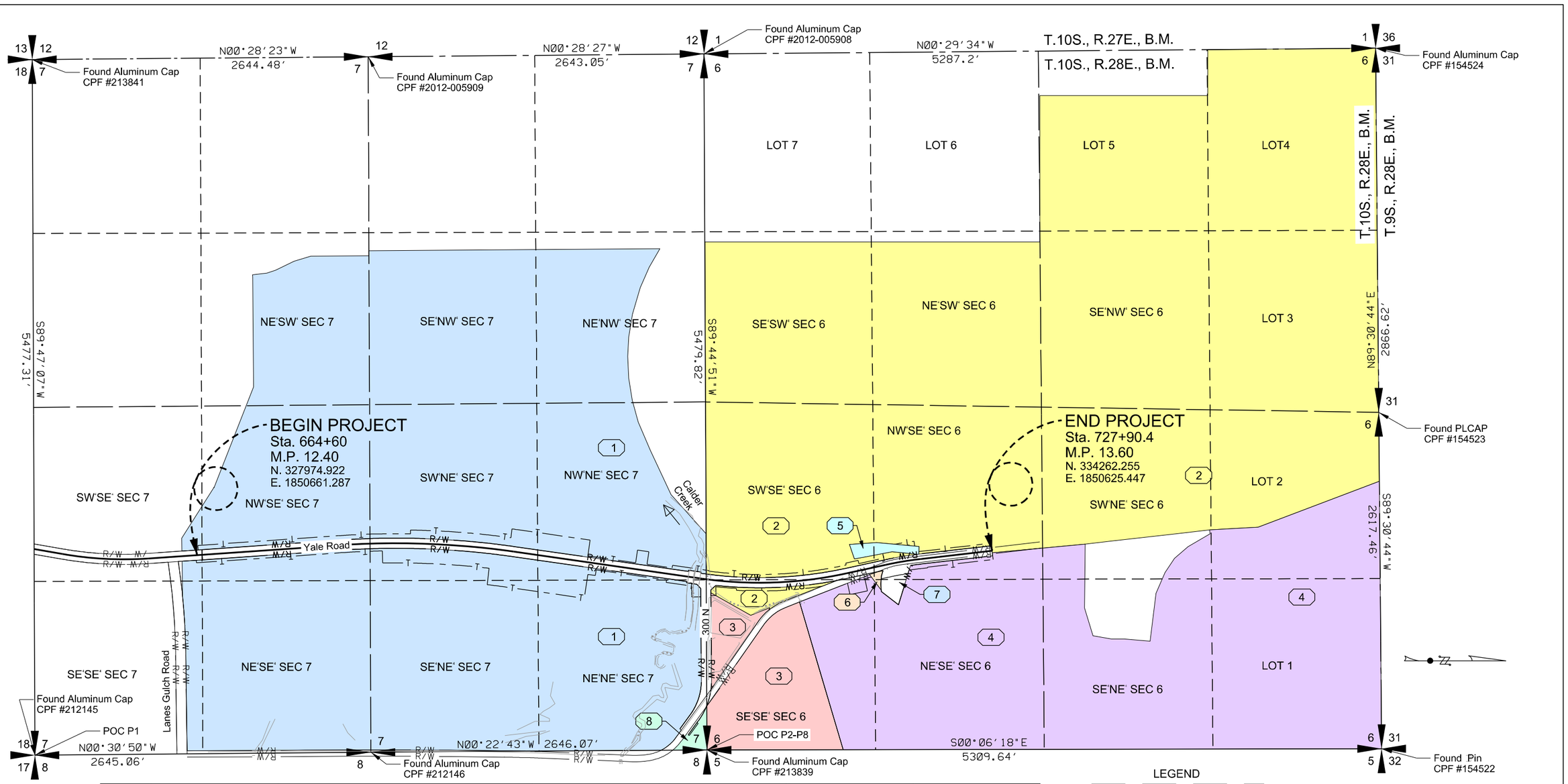
English

COUNTY: CASSIA

KEY NUMBER: 19637

SHEET 1 OF 46

Laila Kral
Approved for Advertising
02/11/2026
Date Approved



Parcel No.	Parcel I.D. No.	Record Owner	Total Ownership Assessed Ac.	Right of Way		Remainder		Easement	
				Req'd Ac	Exist Ac	Left Ac	Right Ac	Perm Ac	Temp Ac
1	RP10S28E070003	GW Finance Company, LLC	324.860	8.511	0.199	175.247	140.903	0.000	12.727
2	RP10S28E060752	GW Finance Company, LLC	369.740	2.686	0.802	363.395	2.857	0.000	1.834
3	RP10S28E069351	Woodbury Revocable Trust	23.640	0.659	0.038	0.000	22.943	0.000	0.014
4	RP10S28E060001	GW Finance Company, LLC	156.890	0.209	0.265	0.000	156.416	0.000	0.824
5	RP10S28E068386	GW Finance Company, LLC	1.000	0.0001	0.000	1.000	0.000	0.000	0.369
6	RP10S28E068400	GW Finance Company, LLC	0.250	0.005	0.077	0.000	0.168	0.000	0.062
7	RP10S28E068381	Bruce Lavender	1.217	1.105	0.112	0.000	0.000	0.000	0.000
8	RP10S28E070500	Woodbury Properties LLC	1.250	0.077	0.152	0.000	1.021	0.000	0.028

LEGEND

FOUND SECTION CORNER

FOUND QUARTER CORNER

400 0 400 800

MAP SCALE 1"=800'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_OMAP_001
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

VICINITY/TOTAL OWNERSHIP MAP
STC-2837, YALE RD STG 4

English

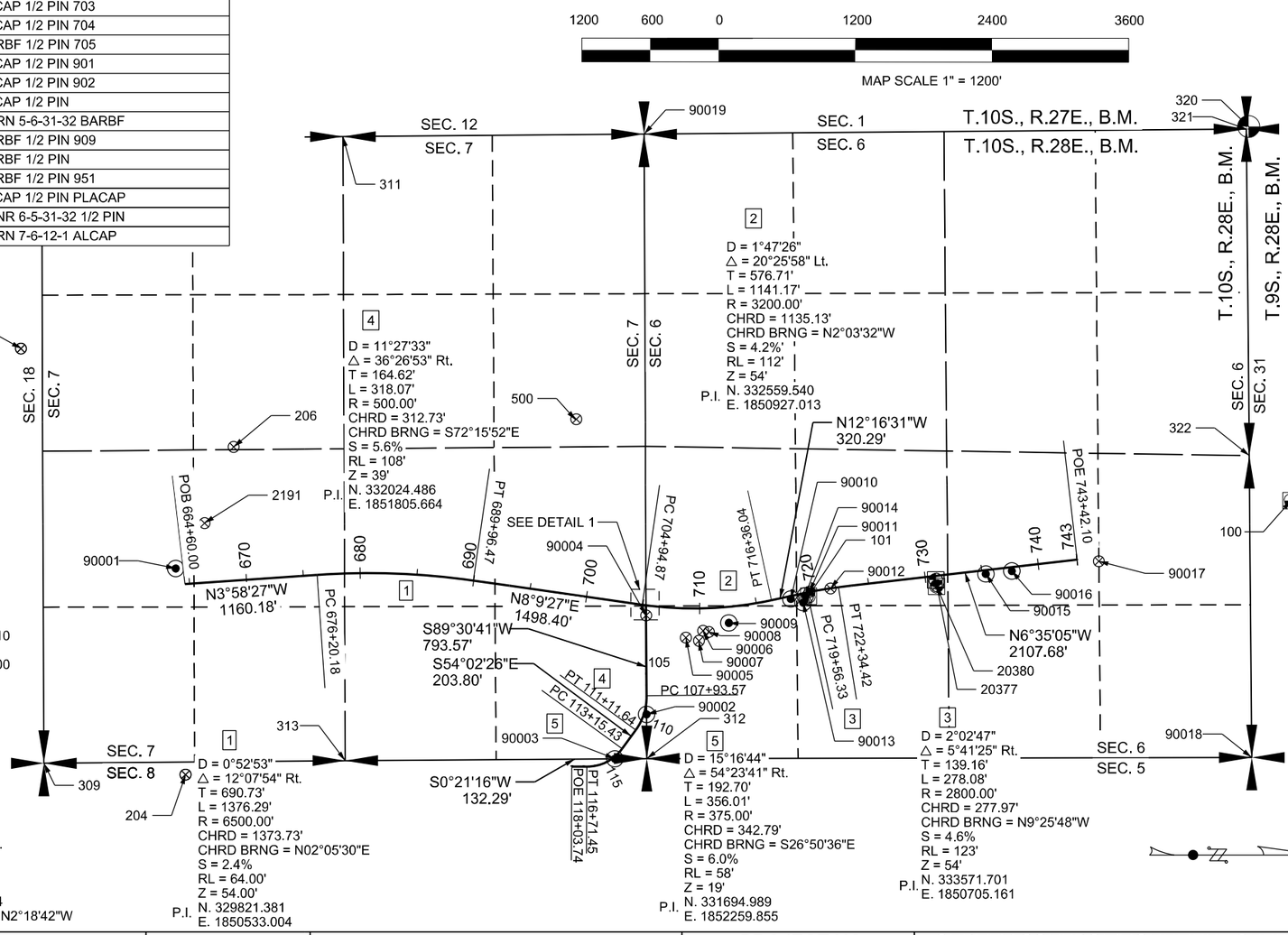
COUNTY CASSIA
KEY NUMBER 19637
SHEET 2 OF 46

PROFESSIONAL ENGINEER LICENSED
Benjamin A. Bingham
19331
11/26/2025
STATE OF IDAHO
BENJAMIN A. BINGHAM

LOCATION OF EXISTING MONUMENTS					
POINT	STATION	OFFSET	MOD. ST. PLANE COORD.		REMARKS
			NORTHING	EASTING	
309	N/A	N/A	326736.824	1852234.173	SCRN 7-12-6-1 ALCAP
311	679+31.29	3832.57 LT	329360.676	1846735.069	SCRNQ 7-12 ALCAP
312	706+57.55	1335.96 RT	332027.788	1852192.969	SCRN 7-6-8-5 ALCAP
313	678+02.03	1641.05 RT	329381.776	1852210.456	SCRNQ 7-8 ALCAP
320	N/A	N/A	337310.138	1846645.453	ALCAP T9SR27E S36 29.4FT SE
321	N/A	N/A	337290.644	1846667.735	SCRN 6-1-31-36 ALCAP
322	N/A	N/A	337315.047	1849534.256	SCRNQ 6-31 PLCAP
2191	666+68.50	522.22 LT	328146.729	1850125.874	RWM
20377	730+89.76	33.95 RT	334563.531	1850624.848	GPS
20380	730+91.04	90.58 RT	334571.296	1850680.957	BARBF 1/2 PIN RENO LS 15351
90001	663+87.99	142.08 LT	327893.240	1850524.542	BARBF 1/2 PIN
90002	706+28.80	949.72 RT	332025.991	1851804.780	BARBF 1/2 PIN
90003	704+48.52	1371.59 RT	331747.857	1852194.764	BARBF 1/2 PIN 618
90004	705+40.11	86.75 RT	332022.085	1850935.764	PLCAP 1/2 PIN 700
90005	708+84.47	256.75 RT	332371.124	1851132.020	PLCAP 1/2 PIN 701
90006	710+25.77	196.41 RT	332522.331	1851071.475	PLCAP 1/2 PIN 702
90007	709+90.67	283.38 RT	332486.174	1851159.112	PLCAP 1/2 PIN 703
90008	710+73.88	207.95 RT	332573.814	1851081.414	PLCAP 1/2 PIN 704
90009	712+43.98	140.19 RT	332748.357	1851002.152	BARBF 1/2 PIN 705
90010	718+04.00	25.25 RT	333456.687	1850728.197	PLCAP 1/2 PIN 901
90011	719+78.19	2.03 LT	333640.764	1850700.323	PLCAP 1/2 PIN 902
90012	721+64.36	2.24 RT	335995.573	1850460.848	PLCAP 1/2 PIN
90013	719+02.37	79.76 RT	337337.415	1852183.237	SCRN 5-6-31-32 BARBF
90014	719+32.28	26.82 RT	333417.923	185766.064	BARBF 1/2 PIN 909
90015	735+33.33	32.35 RT	335003.996	1850572.391	BARBF 1/2 PIN
90016	737+62.41	32.68 RT	335231.596	1850546.444	BARBF 1/2 PIN 951
90017	N/A	N/A	335995.573	1850460.848	PLCAP 1/2 PIN PLACAP
90018	N/A	N/A	337337.415	1852183.237	SCNR 6-5-31-32 1/2 PIN
90019	699+23.92	4090.80 LT	332003.637	1846713.199	SCRN 7-6-12-1 ALCAP

LOCATION OF ALIGNMENT POINTS			
POINT	STATION	MOD. ST. PLANE COORD.	
		NORTHING	EASTING
YALE ROAD			
POB	664+60.00	327974.938	1850661.286
PC	676+20.18	329132.314	1850580.877
PT	689+96.47	330505.120	1850631.013
PC	704+94.87	331988.356	1850843.625
PT	716+36.04	333122.756	1850802.843
PC	719+56.33	333435.726	1850734.747
PT	722+34.42	333709.939	1850689.203
POE	743+42.10	335803.718	1850447.507
300 N			
POB	100+00.00	332016.317	1850847.507
PC	107+93.57	332023.083	1851641.047
PT	111+11.64	331927.817	1851938.916
PC	113+15.43	331808.145	1852103.876
PT	116+71.45	331502.291	1852258.664
POE	118+03.74	331370.002	1852257.846

SURVEY CONTROL POINTS								
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	MOD. ST. PLANE COORD.		ELEVATION	REMARKS
					NORTHING	EASTING		
202	N/A	N/A	42°33'35.95"	113°13'42.91"	326534.996	1848594.559	4242.09	PLCAP; CSI CTRL
204	663+48.41	1668.00 RT	42°33'49.88"	113°12'52.79"	327979.210	1852333.007	4292.30	PLCAP; CSI CTRL
206	669+69.70	1171.65 LT	42°33'54.31"	113°13'31.16"	328402.193	1849457.130	4250.58	PLCAP; CSI CTRL
500	696+23.92	1531.08 LT	42°34'24.03"	113°13'34.04"	331408.808	1849213.822	4245.67	PLCAP; CSI CTRL
100	N/A	N/A	42°35'25.91"	113°13'23.72"	337681.451	1849928.761	4262.44	GPSS; OPUS1
101	719+60.98	35.01 RT	42°34'44.02"	113°13'13.02"	333447.650	1850767.983	4289.67	GPSS; OPUS2



LEGEND

- FOUND SECTION CORNER
- FOUND QUARTER CORNER
- BRASS CAP FOUND
- REBAR #5 FOUND
- PLASTIC CAP FOUND

* INDICATES POSSIBLE CONSTRUCTION CONFLICT. RETAIN AND PROTECT MONUMENT.

BASIS OF SURVEY

HORIZONTAL DATUM FOR THE PROJECT IS BASED ON NAD 1983 IDAHO STATE PLANE COORDINATE SYSTEM (CENTRAL ZONE 1102). ALL BEARINGS SHOWN ARE GRID BEARINGS AND ALL DISTANCES SHOWN REPRESENT GROUND DISTANCE.

VERTICAL DATUM IS BASED ON NAVD88 ELEVATIONS AS SHOWN IN THE SURVEY CONTROL POINTS TABLE.

CONTROL MONUMENTS SHOWN WERE SURVEYED IN MARCH AND MAY 2018.

GENERAL NOTES:

1) ALL HORIZONTAL CONTROL DATA SHOWN ON THIS PLAT IS BASED ON NAD 83 MODIFIED STATE PLANE COORDINATES OBTAINED FROM STATIC GPS OBSERVATIONS ON TWO CONTROL POINTS 100 AND 101.
2) THE VERTICAL DATUM IS NAVD 88 AS DETERMINED BY THE VERTICAL RESULTS OF THE STATIC GPS OBSERVATIONS OF 100 AND 101.
3) ALL CONTROL POINTS WERE MONUMENTED USING A 5/8 INCH REBAR WITH A PLASTIC CAP MARKED CSI CONTROL AND A LATH WITH FLAGGING. SURVEY USING RTK GPS.
4) THE GROUND TO GRID FACTOR IS 0.99981004.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. PRESNELL
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED M. BARRERAS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_RSRV_001
DRAWING DATE: 09-APR-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

SURVEY CONTROL/MONUMENT SHEET
STC-2837, YALE RD STG 4

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 3 OF 46

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 04/09/2025 STATE OF IDAHO MITCH BARRERAS

CLEARANCES

	+ CLEARED UNDER PROJECT NO.	+ APPROVAL DATE
PROJECT STANDARDS		
CHARTER APPROVAL ☐ AASHTO ☐ 3R ☐ 1R ■ STATE	A019(637)	1/18/2019
☐ PM ☐ OTHER	N/A	N/A
DESIGN EXCEPTIONS:	N/A	N/A
	N/A	N/A
PUBLIC HEARING WAIVER	A019(637)	1/10/2022
PUBLIC HEARING DATE (Latest hearing date held or scheduled for opportunity)	N/A	N/A
DESIGN APPROVAL	A019(637)	3/18/2022
RECLAMATION PLAN APPROVAL NO(S)	N/A	N/A
AIRPORT	N/A	N/A
Land Survey Monument Search and Documentation (I.C.55-1613)	A019(637)	3/12/2018
R/W CERTIFICATE: Issued by ■ HQ ☐ DISTRICT	A019(637)	++ 4/25/2025
TRIBAL LANDS: ☐ AGREEMENT REQUIRED ☐ SPECIAL PROVISIONS FOR CONTRACT PROPOSAL	N/A	N/A
BRIDGE PS & E	N/A	N/A
ENVIRONMENTAL DECISION: TYPE ■ CAT-EX ☐ FONSI ☐ ROD	A019(637)	10/15/2021
ENVIRONMENTAL RE-EVALUATION	A019(637)	2/06/2026

PERMITS

			+ EXPIRATION DATE
IDAHO DEPARTMENT OF WATER RESOURCES PERMIT NO(S)	N/A	N/A	N/A
US ARMY CORPS OF ENGINEERS 404 PERMIT NO(S) NWP 14	A019(637)	9/8/2025	3/14/2026
OTHER	N/A	N/A	N/A

DEQ SECTION 401 WATER QUALITY CERTIFICATION ■ YES ☐ NO

NPDES GENERAL PERMIT/SWPPP REQUIRED ■ YES ☐ NO

POLLUTION PREVENTION PLAN REQUIRED ☐ YES ■ NO

AGREEMENTS (List Appropriate Name)

LOCAL: CITY	N/A	N/A	
COUNTY	N/A	N/A	
HIGHWAY DISTRICT	N/A	N/A	
ROAD CLOSURE AND MAINTENANCE	N/A	N/A	
STATE/LOCAL CONSTRUCTION BURLEY HIGHWAY DISTRICT	A019(637)	12/15/2025	

IRRIGATION DISTRICT(S): Crossing Agreement Required ☐ YES ■ NO
(Signatures Required on either Structure Drawing or Bridge Sheet)

UTILITIES: List all Utilities shown on plans	RETAIN & PROTECT	+ APPROVAL DATES: UTILITY HEARING WAIVER	+ APPROVAL DATES: AGREEMENT	+AGREEMENT NO.
Co. RAFT RIVER RURAL ELECTRIC	☐		3/31/2025	
Co. ATC COMMUNICATIONS	☐		3/31/2025	
Co. INTERMOUNTAIN GAS COMPANY	☐	1/6/2025		
Co. TESORO LOGISTICS	■	N/A		
Co. WILLIAMS NORTHWEST PIPELINE	■	N/A		
Co.	☐			
Co.	☐			

RAILROAD List all Railroads encroached upon	+ AGREEMENT FOR	+ AGREEMENT: EFFECTIVE DATE	+ AGREEMENT: NO.
Co.	N/A		
Co.	N/A		

ESTIMATING BASIS

Tack Coat:

CSS-1H Emulsified Asphalt for Tack Coat Diluted (1:1 ratio) at 0.08 Gals/Sq.Yd.

Paving:

PG 64-28 asphalt binder for Superpave HMA SP-3 at 5.6% by weight of mix with 0.5% antistipping by weight of asphalt binder.

Aggregate:

1/2" Aggr. for Superpave HMA Pavement Class SP-3 @ 146 Lbs./C.F. including asphalt and additives.

3/4" Aggr. Type B for Untreated Base @ 143 Lbs./C.F. including 7% moisture.

Base:

Granular Subbase @ 138 Lbs./C.F. including 7% moisture.

Compaction:

Shrinkage of 11 percent for native soils excavated and subsequently placed as compacted fill.

NOTES

The Contractor will be required to furnish a source for all items in the contract.

Class A Compaction is Specified.

Smoothness Schedule II required.

Sawcutting is incidental to other bid items.

The location of existing utilities are shown based on mapping provided by the utility company. The contractor is to confirm all utility locations prior to construction through potholing or other means.

+ ENTER "N/A" WHEN NOT APPLICABLE

++ LPA PROJECTS - DATE ENTERED BY ROADWAY DESIGN WHEN PROJECT SENT TO PS&E.

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	PROJECT CLEARANCE SUMMARY	English
NO.	DATE	BY	DESCRIPTION	B. BINGHAM		YOUR Safety→YOUR Mobility→YOUR Economic Opportunity	A019(637)	STC-2837, YALE RD STG 4	COUNTY CASSIA
				DETAILED B. BINGHAM					KEY NUMBER 19637
				DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025				SHEET 4 OF 46
				CADD FILE NAME 19637_PSUM_001		CIVIL SCIENCE			

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

Topsoil. See typical for locations.

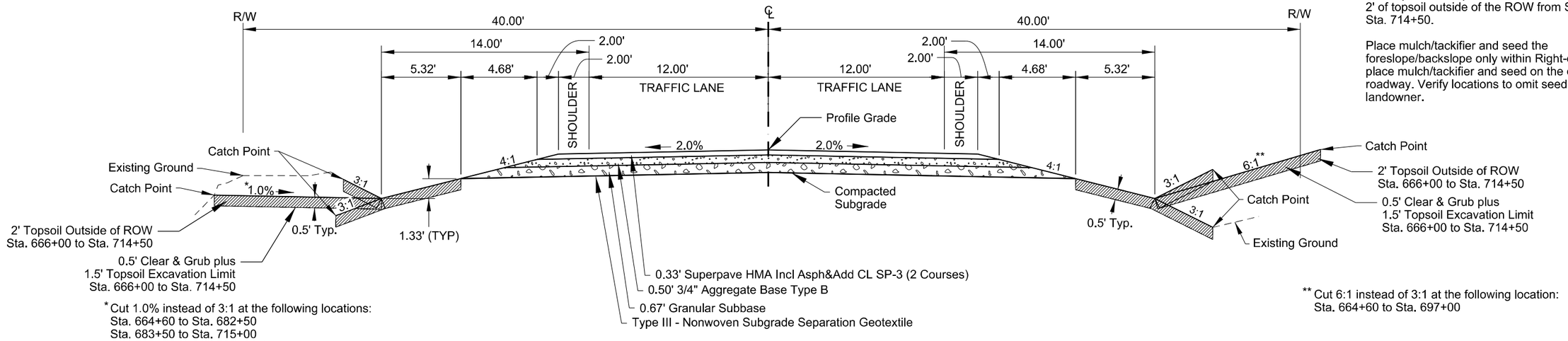
Clear and Grub 0.5' of material throughout the project limits. Strip and temporarily stockpile an additional 1.5' of topsoil below 0.5' of cleared and grubbed material from Sta. 666+00 to Sta. 714+50.

Place 0.5' of topsoil throughout the project on the foreslope, backslope, and obliterated roadway. Place 2' of topsoil outside of the ROW from Sta. 666+00 to Sta. 714+50.

Place mulch/tackifier and seed the foreslope/backslope only within Right-of-Way. Also place mulch/tackifier and seed on the obliterated roadway. Verify locations to omit seeding with the landowner.

TYPICAL SECTION 1

STA. 664+60 TO STA. 727+90.4
STA. 100+14 TO STA. 112+50
N.T.S.



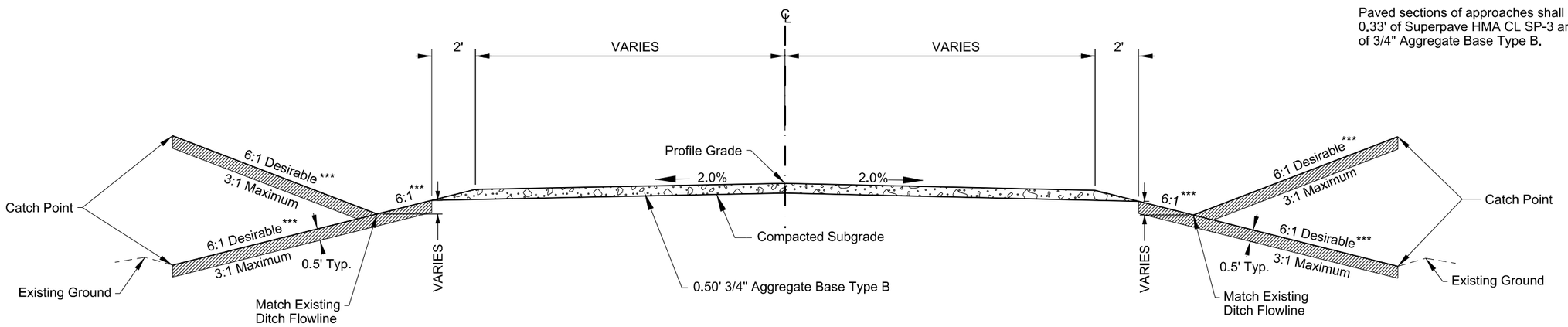
*Cut 1.0% instead of 3:1 at the following locations:
Sta. 664+60 to Sta. 682+50
Sta. 683+50 to Sta. 715+00
Sta. 719+75 to Sta. 727+90.4
Transition from 1% Cut slope to 1% Fill slope between 720+50 and 721+00.
Continue with 1% Fill Slope from 721+00 to 727+90.4

**Cut 6:1 instead of 3:1 at the following location:
Sta. 664+60 to Sta. 697+00

APPROACH TYPICAL SECTION

AGGREGATE
N.T.S.

Paved sections of approaches shall be 0.33' of Superpave HMA CL SP-3 and 0.5' of 3/4" Aggregate Base Type B.



***Construct 6:1 sideslopes within the mainline's clear zone.
(14' from edge of travel lane)

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED R. RAMSEY	
DETAILED B. BINGHAM	CADD FILE NAME 19637_TYPI_001
DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.	TYPICAL SECTIONS
A019(637)	STC-2837, YALE RD STG 4

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 5 OF 46

PROFESSIONAL ENGINEER LICENSED
19331
11/26/2025
STATE OF IDAHO
BENJAMIN A. BINGHAM

SHEET NUMBER				14	15	16	17	18	19	20	21	22	23	24	25
STATION - STATION				664+60 - 668+80	668+80 - 673+60	673+60 - 678+40	678+40 - 683+20	683+20 - 688+00	688+00 - 692+80	692+80 - 697+60	697+60 - 702+40	702+40 - 707+20	707+20 - 712+00	712+00 - 716+80	716+80 - 721+60
ITEM NO.	ITEM	UNIT	TOTAL	420	480	480	480	480	480	480	480	480	480	480	480
107-019A	SURVEY MONUMENT PRESERVATION	CA	5,000												
201-005A	CLEARING & GRUBBING	ACRE	19.7												5
202-005A	SELECTIVE REMOVAL OF TREES INCLUDING STUMPS	EACH	5												
203-006A	REMOVAL OF SIGN	EACH	11												
203-075A	REMOVAL OF FENCE	FT	1,378									115			
203-125A	REMOVAL OF MISCELLANEOUS ITEMS (ROCK WALL)	LS	1												1
110-005A	TRAINING	HR	866												
204-006A	OBLITERATION OF OLD ROAD	LS	1												
205-005A	EXCAVATION	CY	168,600												
205-060A	WATER FOR DUST ABATEMENT	MG	3,465												
205-071A	EXCAVATION AND REPAIR OF SOFT SPOTS	CY	500												
209-005A	SMALL DITCH	FT	94					35							
210-005A	STRUCTURAL EXCAVATION SCH NO. 1	CY	321												
210-015A	COMPACTING BACKFILL	CY	123												
212-011A	FIBER WATTLE	FT	2,180				100			50	397	499		139	50
212-060A	STABILIZED CONSTRUCTION ENTRANCE	EACH	3	1											
212-105A	WATER AND POLLUTION	CA	5,000												
213-010A	TOPSOIL	SY	71,317												
301-005A	GRANULAR SUBBASE	TON	14,900												
303-022A	3/4" AGGREGATE TYPE B FOR BASE	TON	10,800												
401-020A	CSS-1H DILUTED EMULSIFIED ASPHALT FOR TACK COAT	GAL	1,900												
405-245A	APPROACH	EACH	10				1	1		1	1	1			3
405-435A	SUPERPAVE HMA PAVEMENT INCLUDING ASPHALT & ADDITIVES SP-3 (NMAS 1/2", PG 64-28)	TON	5,850												
511-005A	CONCRETE WATERPROOF SYSTEM (TYPE D)	SY	120												
578-005A	PRECAST CONCRETE CULVERT (72' x 8' x 6')	LS	1												
602-025A	12" PIPE CULVERT	FT	393				68			74					251
602-035A	18" PIPE CULVERT	FT	207				72				78				
608-035A	18" APRON FOR PIPE	EACH	6				2				2				
610-045A	FENCE TYPE 5 B	FT	116	116											
610-250A	BRACES	EACH	1	1											

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_RSUM_001
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

ROADWAY SUMMARY
STC-2837, YALE RD STG 4

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 6 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

SHEET NUMBER				26	27	28	29	30	34	35	36	37	38	39	40
STATION - STATION				721+60 - 726+40	726+40 - 727+90.4	100+00 - 103+80	103+80 - 108+60	108+60 - 112+50	664+60 - 673+80	673+80 - 683+60	683+60 - 693+30	693+30 - 703+00	703+00 - 712+70	712+70 - 722+40	722+40 - 728+00
ITEM NO.	ITEM	UNIT	TOTAL	480	150.4	380	480	390	920	980	970	970	970	970	560
107-019A	SURVEY MONUMENT PRESERVATION	CA													
201-005A	CLEARING & GRUBBING	ACRE													
202-005A	SELECTIVE REMOVAL OF TREES INCLUDING STUMPS	EACH							4					4	2
203-006A	REMOVAL OF SIGN	EACH													
203-075A	REMOVAL OF FENCE	FT				339	480	444							
203-125A	REMOVAL OF MISCELLANEOUS ITEMS (ROCK WALL)	LS													
204-006A	OBLITERATION OF OLD ROAD	LS													
205-005A	EXCAVATION	CY													
205-060A	WATER FOR DUST ABATEMENT	MG													
205-071A	EXCAVATION AND REPAIR OF SOFT SPOTS	CY													
209-005A	SMALL DITCH	FT				59									
210-005A	STRUCTURAL EXCAVATION SCH NO. 1	CY													
210-015A	COMPACTING BACKFILL	CY													
212-011A	FIBER WATTLE	FT			50	415	480								
212-060A	STABILIZED CONSTRUCTION ENTRANCE	EACH			1			1							
212-105A	WATER AND POLLUTION	CA													
213-010A	TOPSOIL	SY													
301-005A	GRANULAR SUBBASE	TON													
303-022A	3/4" AGGREGATE TYPE B FOR BASE	TON													
401-020A	CSS-1H DILUTED EMULSIFIED ASPHALT FOR TACK COAT	GAL													
405-245A	APPROACH	EACH						2							
405-435A	SUPERPAVE HMA PAVEMENT INCLUDING ASPHALT & ADDITIVES SP-3 (NMAS 1/2", PG 64-28)	TON													
511-005A	CONCRETE WATERPROOF SYSTEM (TYPE D)	SY				120									
578-005A	PRECAST CONCRETE CULVERT (72' x 8' x 6')	LS				1									
602-025A	12" PIPE CULVERT	FT													
602-035A	18" PIPE CULVERT	FT			57										
608-035A	18" APRON FOR PIPE	EACH			2										
610-045A	FENCE TYPE 5 B	FT													
610-250A	BRACES	EACH													

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_RSUM_002
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

ROADWAY SUMMARY
STC-2837, YALE RD STG 4

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 7 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

SHEET NUMBER				41	42											
STATION - STATION				100+00 - 109+50	109+50 - 112+50											
ITEM NO.	ITEM	UNIT	TOTAL	950	300											
107-019A	SURVEY MONUMENT PRESERVATION	CA														
201-005A	CLEARING & GRUBBING	ACRE														
202-005A	SELECTIVE REMOVAL OF TREES INCLUDING STUMPS	EACH			1											
203-006A	REMOVAL OF SIGN	EACH														
203-075A	REMOVAL OF FENCE	FT														
203-125A	REMOVAL OF MISCELLANEOUS ITEMS (ROCK WALL)	LS														
204-006A	OBLITERATION OF OLD ROAD	LS														
205-005A	EXCAVATION	CY														
205-060A	WATER FOR DUST ABATEMENT	MG														
205-071A	EXCAVATION AND REPAIR OF SOFT SPOTS	CY														
209-005A	SMALL DITCH	FT														
210-005A	STRUCTURAL EXCAVATION SCH NO. 1	CY														
210-015A	COMPACTING BACKFILL	CY														
212-011A	FIBER WATTLE	FT														
212-060A	STABILIZED CONSTRUCTION ENTRANCE	EACH														
212-105A	WATER AND POLLUTION	CA														
213-010A	TOPSOIL	SY														
301-005A	GRANULAR SUBBASE	TON														
303-022A	3/4" AGGREGATE TYPE B FOR BASE	TON														
401-020A	CSS-1H DILUTED EMULSIFIED ASPHALT FOR TACK COAT	GAL														
405-245A	APPROACH	EACH														
405-435A	SUPERPAVE HMA PAVEMENT INCLUDING ASPHALT & ADDITIVES SP-3 (NMAS 1/2", PG 64-28)	TON														
511-005A	CONCRETE WATERPROOF SYSTEM (TYPE D)	SY														
578-005A	PRECAST CONCRETE CULVERT (72' x 8' x 6')	LS														
602-025A	12" PIPE CULVERT	FT														
602-035A	18" PIPE CULVERT	FT														
608-035A	18" APRON FOR PIPE	EACH														
610-045A	FENCE TYPE 5 B	FT														
610-250A	BRACES	EACH														

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED R. RAMSEY	
DETAILED B. BINGHAM	CADD FILE NAME 19637_RSUM_003
DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.	ROADWAY SUMMARY
A019(637)	STC-2837, YALE RD STG 4

English

COUNTY CASSIA

KEY NUMBER 19637

SHEET 8 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

SHEET NUMBER				14	15	16	17	18	19	20	21	22	23	24	25
STATION - STATION				664+60 - 668+80	668+80 - 673+60	673+60 - 678+40	678+40 - 683+20	683+20 - 688+00	688+00 - 692+80	692+80 - 697+60	697+60 - 702+40	702+40 - 707+20	707+20 - 712+00	712+00 - 716+80	716+80 - 721+60
ITEM NO.	ITEM	UNIT	TOTAL	420	480	480	480	480	480	480	480	480	480	480	480
616-010A	SIGN TYPE B-1	SF	82.2												
616-055B	WOOD SIGN POST TYPE D-2	FT	110.4												
616-055C	WOOD SIGN POST TYPE D-3	FT	19.5												
616-080A	REINSTALL SIGN FACE	EACH	2												
616-085A	REINSTALL SIGN POST	EACH	3												
616-100A	SIGN BRACES	LB	106.2												
617-005A	DELINEATOR TY 1	EACH	78												
617-020A	DELINEATOR TY 4	EACH	2												
618-010A	RIGHT-OF-WAY MARKER	EACH	35			2			2			11		2	4
618-025A	STREET MONUMENT	EACH	6												3
621-005A	SEED BED PREPARATION	ACRE	6.87												
621-010A	SEEDING	ACRE	6.87												
621-060A	MULCH PLUS TACKIFIER	ACRE	13.74												
624-005A	LOOSE RIPRAP	CY	44												
626-010A	TEMPORARY TRAFFIC CONTROL SIGNS	SF	797												
626-105A	TEMPORARY TRAFFIC CONTROL MAINTENANCE	HR	760												
626-120A	FLAGGER CONTROL	HR	1,500												
626-125A	PILOT CAR	HR	500												
626-135A	WEIGHTED BASE TUBULAR MARKERS	EACH	100												
630-025A	LONGITUDINAL PAVEMENT MARKING - WATERBORNE	FT	37,981												
634-005A	MAILBOX (TYPE B ASSEMBLY)	EACH	2												2
640-010A	RIPRAP/EROSION CONTROL GEOTEXTILE	SY	130												
640-015A	SUBGRADE SEPARATION GEOTEXTILE (TYPE III)	SY	36,200												
675-005A	SURVEY	LS	1												
675-010A	DIRECTED SURVEYING	CA	10,000												
677-005A	RECORD DRAWINGS	LS	1												
S900-50A	CONTINGENCY AMOUNT - MISCELLANEOUS WORK	CA	5,000												
Z629-05A	MOBILIZATION	LS	1												

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_RSUM_004
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

ROADWAY SUMMARY
STC-2837, YALE RD STG 4

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 9 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

SHEET NUMBER				26	27	28	29	30	34	35	36	37	38	39	40
STATION - STATION				721+60 - 726+40	726+40 - 727+90.4	100+00 - 103+80	103+80 - 108+60	108+60 - 112+50	664+60 - 673+80	673+80 - 683+60	683+60 - 693+30	693+30 - 703+00	703+00 - 712+70	712+70 - 722+40	722+40 - 728+00
ITEM NO.	ITEM	UNIT	TOTAL	480	150.4	380	480	390	920	980	970	970	970	970	560
616-010A	SIGN TYPE B-1	SF							20.6			10.3	18.3	9	9
616-055B	WOOD SIGN POST TYPE D-2	FT							28.7			16.9	30.6	17.1	17.1
616-055C	WOOD SIGN POST TYPE D-3	FT													
616-080A	REINSTALL SIGN FACE	EACH												2	
616-085A	REINSTALL SIGN POST	EACH												3	
616-100A	SIGN BRACES	LB							24			12	31.4	12	12
617-005A	DELINEATOR TY 1	EACH							6	8	10	6	10	12	2
617-020A	DELINEATOR TY 4	EACH											2		
618-010A	RIGHT-OF-WAY MARKER	EACH		2	4		2	6							
618-025A	STREET MONUMENT	EACH		1		1		1							
621-005A	SEED BED PREPARATION	ACRE													
621-010A	SEEDING	ACRE													
621-060A	MULCH PLUS TACKIFIER	ACRE													
624-005A	LOOSE RIPRAP	CY				44									
626-010A	TEMPORARY TRAFFIC CONTROL SIGNS	SF													
626-105A	TEMPORARY TRAFFIC CONTROL MAINTENANCE	HR													
626-120A	FLAGGER CONTROL	HR													
626-125A	PILOT CAR	HR													
626-135A	WEIGHTED BASE TUBULAR MARKERS	EACH													
630-025A	LONGITUDINAL PAVEMENT MARKING - WATERBORNE	FT							4,872	4,390	4,346	4,346	3,880	4,346	2,509
634-005A	MAILBOX (TYPE B ASSEMBLY)	EACH													
640-010A	RIPRAP/EROSION CONTROL GEOTEXTILE	SY				130									
640-015A	SUBGRADE SEPARATION GEOTEXTILE (TYPE III)	SY													
675-005A	SURVEY	LS													
675-010A	DIRECTED SURVEYING	CA													
677-005A	RECORD DRAWINGS	LS													
S900-50A	CONTINGENCY AMOUNT - MISCELLANEOUS WORK	CA													
Z629-05A	MOBILIZATION	LS													

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_RSUM_005
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

ROADWAY SUMMARY
STC-2837, YALE RD STG 4

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 10 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

SHEET NUMBER				41	42											
STATION - STATION				100+00 - 109+50	109+50 - 112+50											
ITEM NO.	ITEM	UNIT	TOTAL	950	300											
616-010A	SIGN TYPE B-1	SF		15												
616-055B	WOOD SIGN POST TYPE D-2	FT														
616-055C	WOOD SIGN POST TYPE D-3	FT		19.5												
616-080A	REINSTALL SIGN FACE	EACH														
616-085A	REINSTALL SIGN POST	EACH														
616-100A	SIGN BRACES	LB		14.8												
617-005A	DELINEATOR TY 1	EACH		14	10											
617-020A	DELINEATOR TY 4	EACH														
618-010A	RIGHT-OF-WAY MARKER	EACH														
618-025A	STREET MONUMENT	EACH														
621-005A	SEED BED PREPARATION	ACRE														
621-010A	SEEDING	ACRE														
621-060A	MULCH PLUS TACKIFIER	ACRE														
624-005A	LOOSE RIPRAP	CY														
626-010A	TEMPORARY TRAFFIC CONTROL SIGNS	SF														
626-105A	TEMPORARY TRAFFIC CONTROL MAINTENANCE	HR														
626-120A	FLAGGER CONTROL	HR														
626-125A	PILOT CAR	HR														
626-135A	WEIGHTED BASE TUBULAR MARKERS	EACH														
630-025A	LONGITUDINAL PAVEMENT MARKING - WATERBORNE	FT		6,892	2,400											
634-005A	MAILBOX (TYPE B ASSEMBLY)	EACH														
640-010A	RIPRAP/EROSION CONTROL GEOTEXTILE	SY														
640-015A	SUBGRADE SEPARATION GEOTEXTILE (TYPE III)	SY														
675-005A	SURVEY	LS														
675-010A	DIRECTED SURVEYING	CA														
677-005A	RECORD DRAWINGS	LS														
S900-50A	CONTINGENCY AMOUNT - MISCELLANEOUS WORK	CA														
Z629-05A	MOBILIZATION	LS														

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_RSUM_006
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

ROADWAY SUMMARY
STC-2837, YALE RD STG 4

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 11 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

SHEET NUMBER				2												
STATION - STATION				Bridge Plans												
ITEM NO.	ITEM	UNIT	TOTAL													
210-005A	STRUCTURAL EXCAVATION SCHEDULE NO. 1	CY	894	894												
210-015A	COMPACTING BACKFILL	CY	1,293	1,293												
301-005A	GRANULAR SUBBASE	TON	1,628	1,628												
303-022A	3/4" AGGREGATE TYPE B FOR BASE	TON	146	146												
502-025A	CONCRETE CLASS 40-A	CY	230	230												
503-005A	METAL REINFORCEMENT	LB	33,774	33,774												
511-005A	CONCRETE WATERPROOF SYSTEM (TYPE D)	SY	209	209												
624-005A	LOOSE RIPRAP	CY	47.3	47.3												
640-010A	RIPRAP/EROSION CONTROL GEOTEXTILE	SY	352	352												
641-005A	BIAXIAL GEOGRID (TYPE II)	SY	339	339												

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED R. RAMSEY	
DETAILED B. BINGHAM	CADD FILE NAME 19637_BSUM_001
DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

CIVIL SCIENCE

PROJECT NO.	BRIDGE SUMMARY
A019(637)	STC-2837, YALE RD STG 4

English

COUNTY CASSIA

KEY NUMBER 19637

SHEET 12 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

STATION	PIPE CULVERT (LENGTH IN FEET) PIPE SIZE (INCHES) 12	18				PLASTIC PIPE: RIBBED POLYETHYLENE (PE) X	CORRUGATED POLYETHYLENE (PE) X	RIBBED POLYVINYL CHLORIDE (PVC) X	METAL PIPE: STEEL PIPE: GALVANIZED STEEL X	ALUMINIZED STEEL X	1/2" CORRUGATION DEPTH / 2-2/3" CORRUGATION LENGTH GAGE	COATED X	ANNULAR CORR. X	HELICAL CORR. X	ALUMINUM PIPE: ___" CORRUGATION DEPTH / ___" CORRUGATION LENGTH THICK. (")	COATED X	ANNULAR CORR. X	HELICAL CORR. X	CONCRETE PIPE: REINFORCED CLASS II-V	IRRIGATION OR DRAINAGE X	TYPE OF BEDDING 1,2,3	RUBBER GASKET JOINTS REQUIRED X	FILL HEIGHT FT.	STR. EXC. C.Y.	COMP. BKFILL C.Y.	MINOR STRUCTURES: DRAWING NUMBER	STRUCTURE EA.	CONCRETE C.Y.	METAL REINF. LBS.	TIMBER MFBM	GRATES EA.	APRONS EA.	INLETS TYPE____	CATCH BASINS TYPE____	REMARKS (INDICATE ELONGATION) (WHEN REQUIRED)
678+55		72							X		14		X											5.1										2			Cross Culvert
680+00 RT	68								X		14		X											1.0													Lateral
696+22 RT	74								X		14		X											1.5													Lateral
697+67		78							X		14		X											6.4										2			Cross Culvert
716+89 RT	171								X		14		X											1.0													Lateral
717+00 LT	80								X		14		X											1.2													Lateral
727+87		57							X		14		X											1.1										2			Cross Culvert
SHEET TOTAL	393	207																															6			
PROJ. TOTAL	393	207																															6			

Excavation and compacted backfill are incidental to pipe installation.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED R. RAMSEY	
DETAILED B. BINGHAM	CADD FILE NAME 19637_CSUM_001
DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025

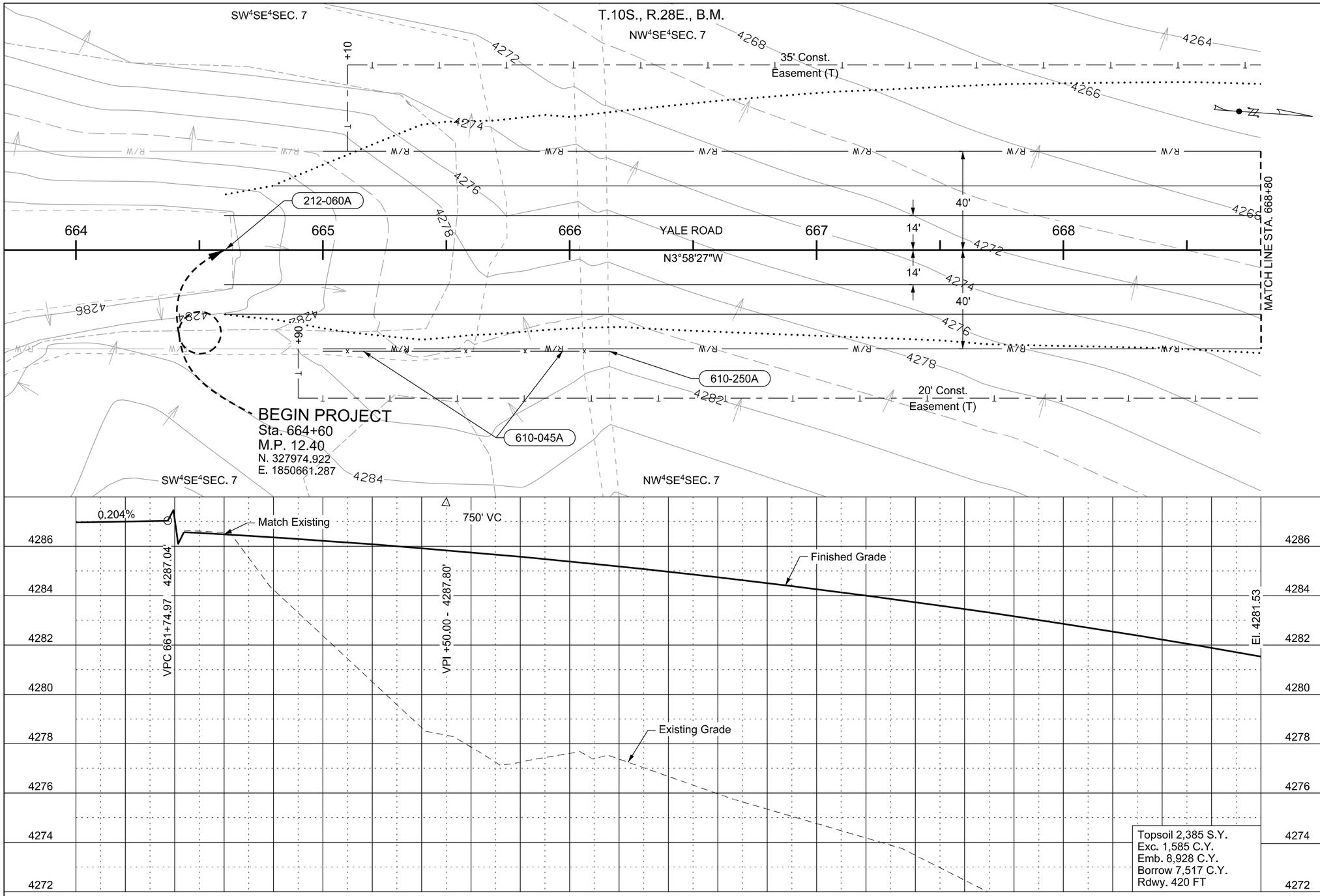
IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.	PIPE CULVERT SUMMARY
A019(637)	STC-2837, YALE RD STG 4

English

COUNTY	CASSIA
KEY NUMBER	19637
SHEET	13 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



Topsoil 2,385 S.Y.
Exc. 1,585 C.Y.
Emb. 8,928 C.Y.
Borrow 7,517 C.Y.
Rdwy. 420 FT

212-060A STABILIZED CONSTRUCTION ENTRANCE
1 EACH Sta. 664+60

610-045A FENCE TYPE 5 B
116 FT Sta. 665+00 41'RT
to Sta. 666+16 41'RT

610-250A BRACES
1 EACH Sta. 666+16 41'RT

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_PLPR_001
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

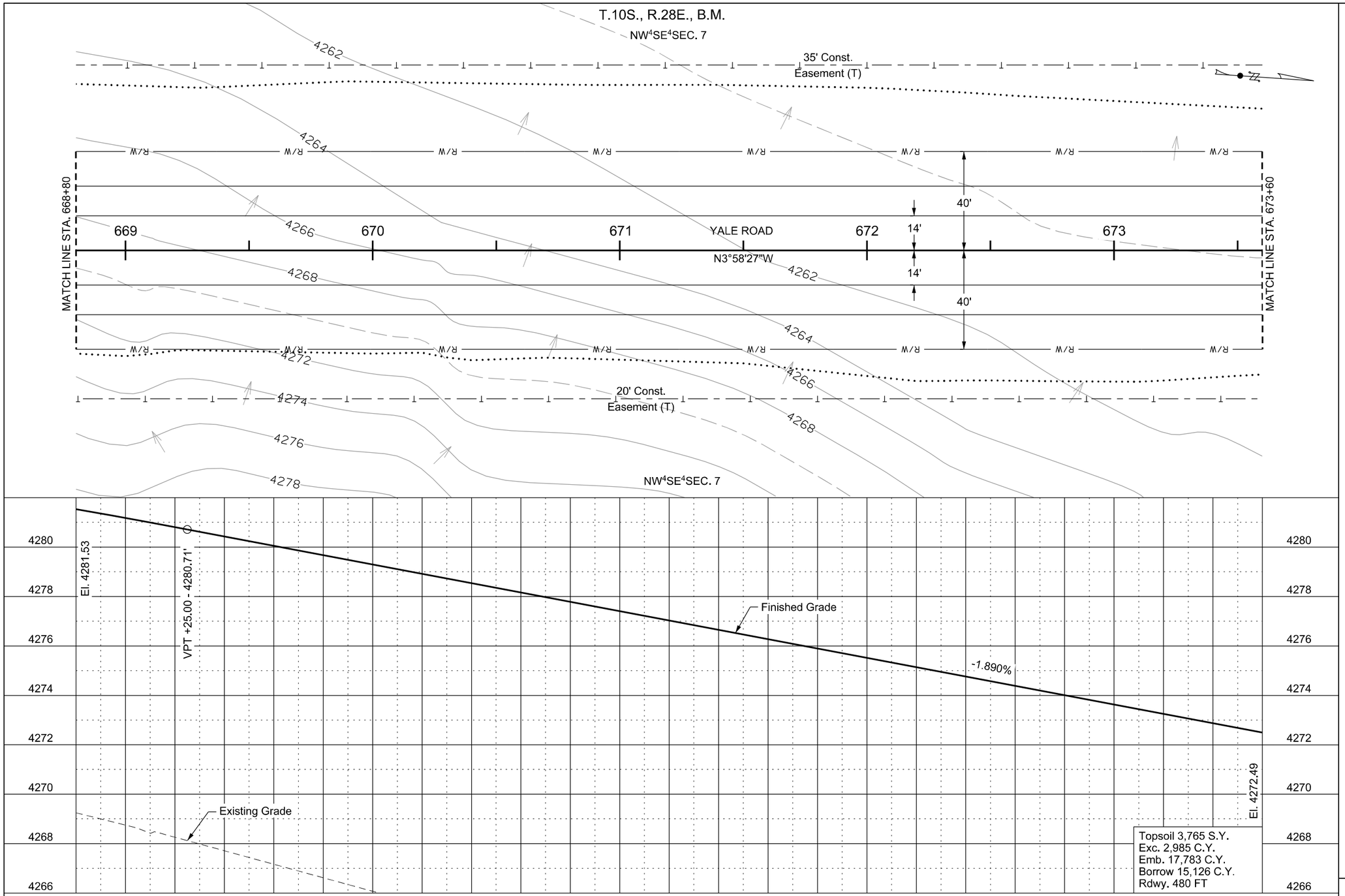
PROJECT NO.
A019(637)

PROJECT PLAN / PROFILE SHEET
STC-2837, YALE RD STG 4
STA. 664+00 TO STA. 668+80

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 14 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED R. RAMSEY	
DETAILED B. BINGHAM	CADD FILE NAME 19637_PLPR_002
DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.	PROJECT PLAN / PROFILE SHEET
A019(637)	STC-2837, YALE RD STG 4 STA. 668+80 TO STA. 673+60

English

COUNTY	CASSIA
KEY NUMBER	19637
SHEET	15 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

T.10S., R.28E., B.M.

NW^{4}SE^{4}SEC. 7

35' Const. Easement (T)

618-010A

R/W

MATCH LINE STA. 673+60

40'

14'

14'

40'

674

675

676

YALE ROAD

677

678

N3°58'27"W

1

4258

MATCH LINE STA. 678+40

PC 676+20.18

618-010A

20' Const. Easement (T)

D= 0°52'53"
△= 12°07'54" Rt.
T= 690.73'
L= 1376.29'
R= 6500.00
S= 2.4%
RL= 64'
Z= 54'
P.I.
N. 329821.381
E. 1850533.004

NW^{4}SE^{4}SEC. 7

4272
4270
4268
4266
4264
4262
4260
4258

El. 4272.49

-1.890%

Finished Grade

VPC +65.00 - 4264.84'

El. 4263.62

Existing Grade

Topsoil 2,332 S.Y.
Exc. 2,269 C.Y.
Emb. 9,696 C.Y.
Borrow 7,677 C.Y.
Rdwy. 480 FT

673+60 674+00 675+00 676+00 677+00 678+00 678+40

618-010A RIGHT-OF-WAY MARKER

1 EACH Sta. 676+20.18 40.00' RT
1 EACH Sta. 676+20.18 40.00' LT

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_PLPR_003
DRAWING DATE: 26-NOV-2025

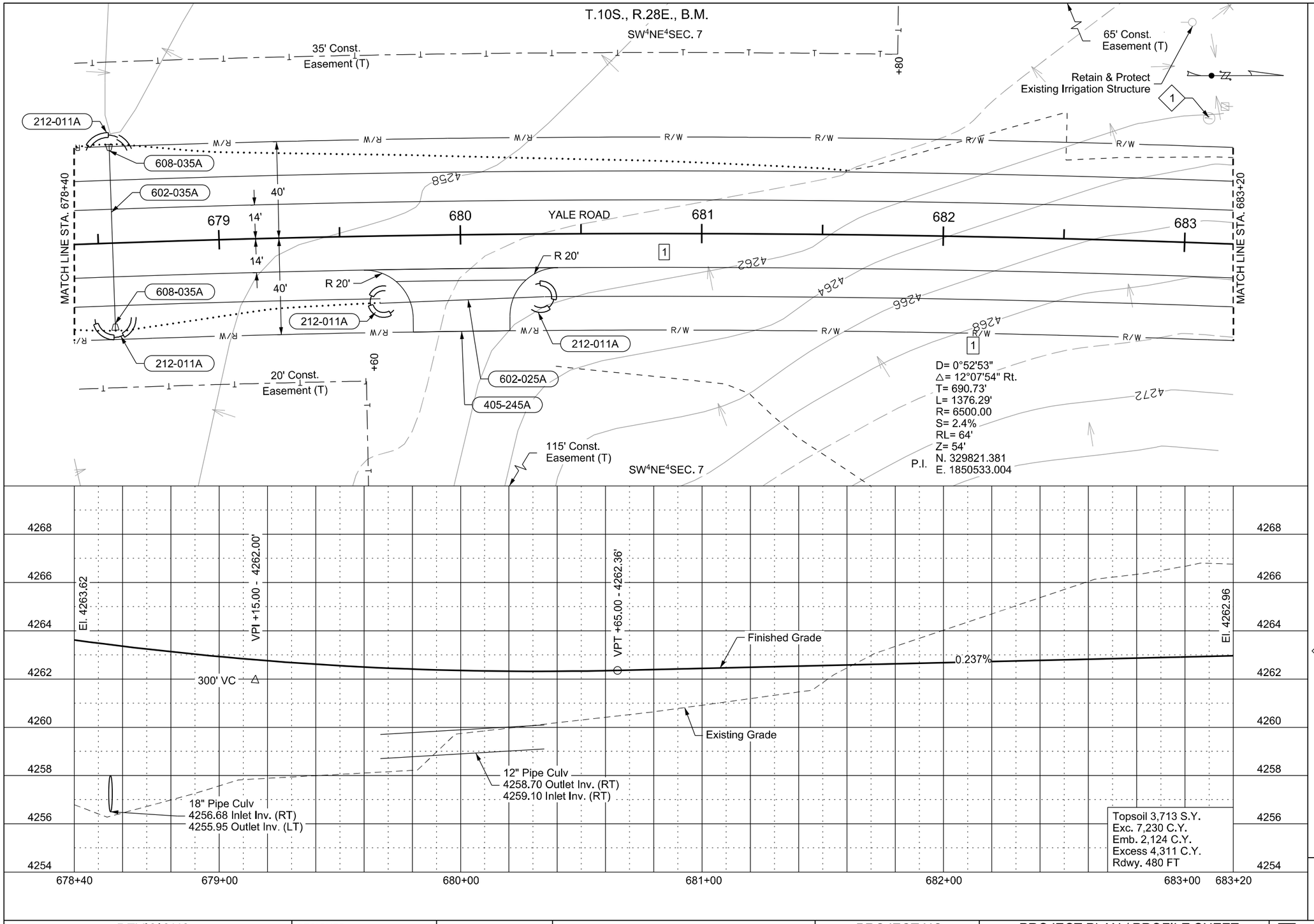
IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

PROJECT PLAN / PROFILE SHEET
STC-2837, YALE RD STG 4
STA. 673+60 TO STA. 678+40

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 16 OF 46



Topsoil 3,713 S.Y.
Exc. 7,230 C.Y.
Emb. 2,124 C.Y.
Excess 4,311 C.Y.
Rdwy. 480 FT

212-011A FIBER WATTLE

25	FT	Sta. 678+55 LT
25	FT	Sta. 678+55 RT
25	FT	Sta. 679+66 RT
25	FT	Sta. 680+35 RT

405-245A APPROACH

1	EACH	Sta. 680+00 RT W=40'

602-025A 12" PIPE CULVERT

68	FT	Sta. 679+66.4 27.9' RT
	to	Sta. 680+34.6 26.0' RT

602-035A 18" PIPE CULVERT

72	FT	Sta. 678+55.8 33.5' RT
	to	Sta. 678+55.8 38.3' LT

608-035A 18" APRON FOR PIPE

1	EACH	Sta. 678+55.8 33.5' RT
1	EACH	Sta. 678+55.8 38.3' LT

UTILITY

1 RETAIN & PROTECT EXISTING IRRIGATION STRUCTURE

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_PLPR_004
DRAWING DATE: 26-NOV-2025

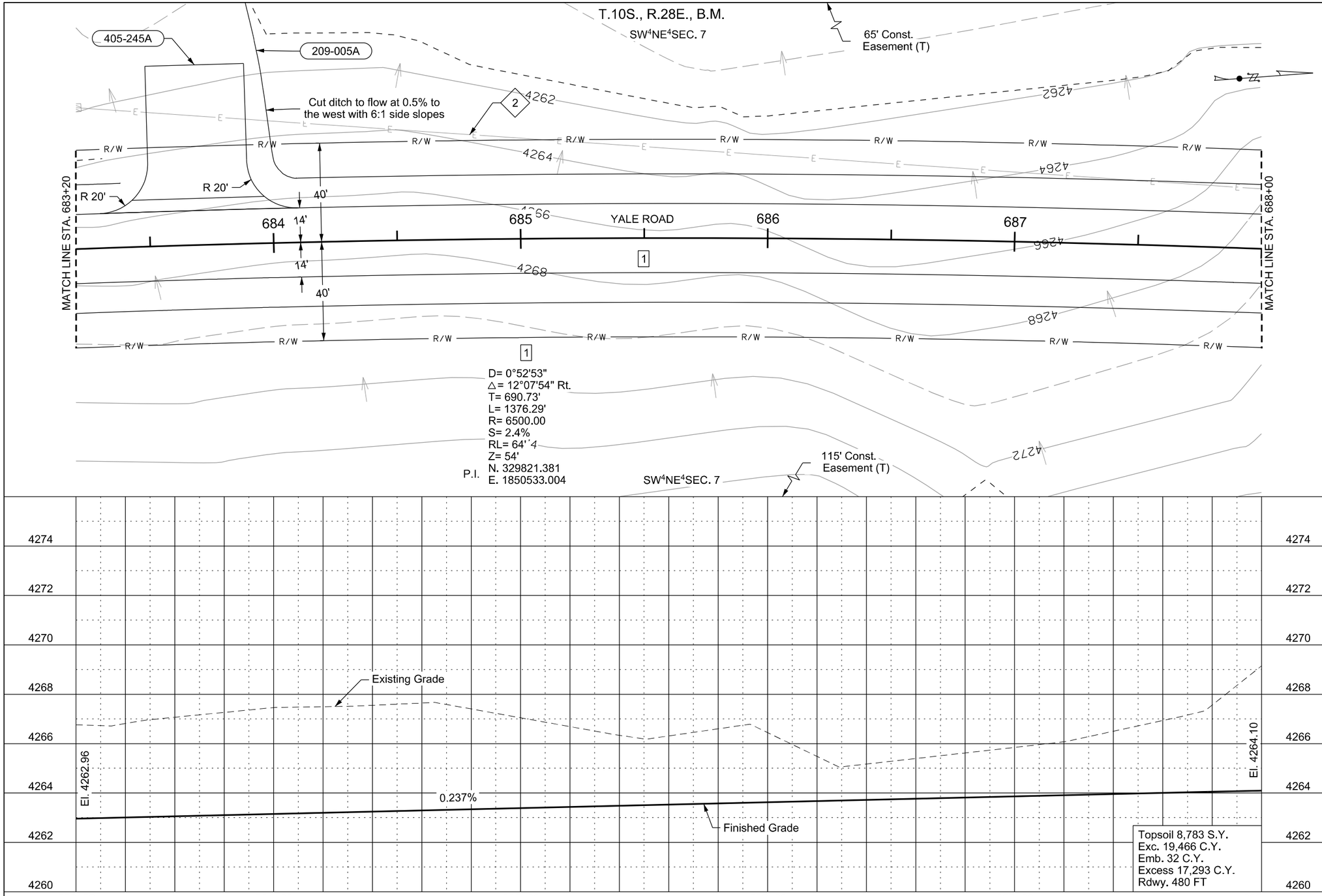
IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

PROJECT PLAN / PROFILE SHEET
STC-2837, YALE RD STG 4
STA. 678+40 TO STA. 683+20

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 17 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



209-005A SMALL DITCH

35 FT Sta. 683+96 73' LT
to Sta. 683+90 104' LT

405-245A APPROACH

1 EACH Sta. 683+70 LT W=40'

UTILITY

2 RELOCATE UNDERGROUND POWER BY RAFT RIVER RURAL ELECTRIC

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_PLPR_005
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

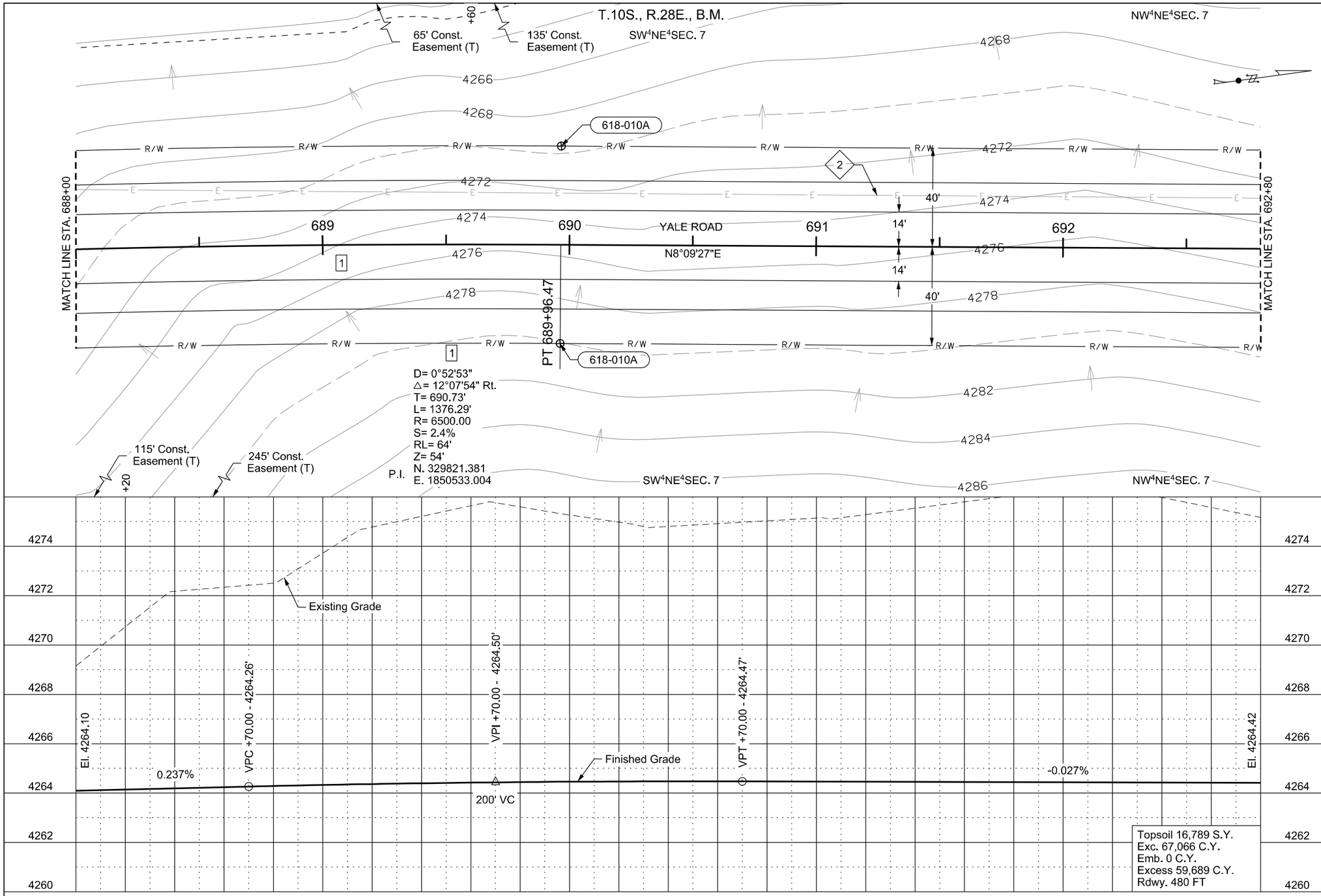
PROJECT NO.
A019(637)

PROJECT PLAN / PROFILE SHEET
STC-2837, YALE RD STG 4
STA. 683+20 TO STA. 688+00

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 18 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



Topsoil 16,789 S.Y.
Exc. 67,066 C.Y.
Emb. 0 C.Y.
Excess 59,689 C.Y.
Rdwy. 480 FT

618-010A RIGHT-OF-WAY MARKER

1 EACH Sta. 689+96.47 40.00' RT
1 EACH Sta. 689+96.47 40.00' LT

UTILITY

2 RELOCATE UNDERGROUND POWER BY RAFT RIVER RURAL ELECTRIC

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED R. RAMSEY	
DETAILED B. BINGHAM	CADD FILE NAME 19637_PLPR_006
DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025

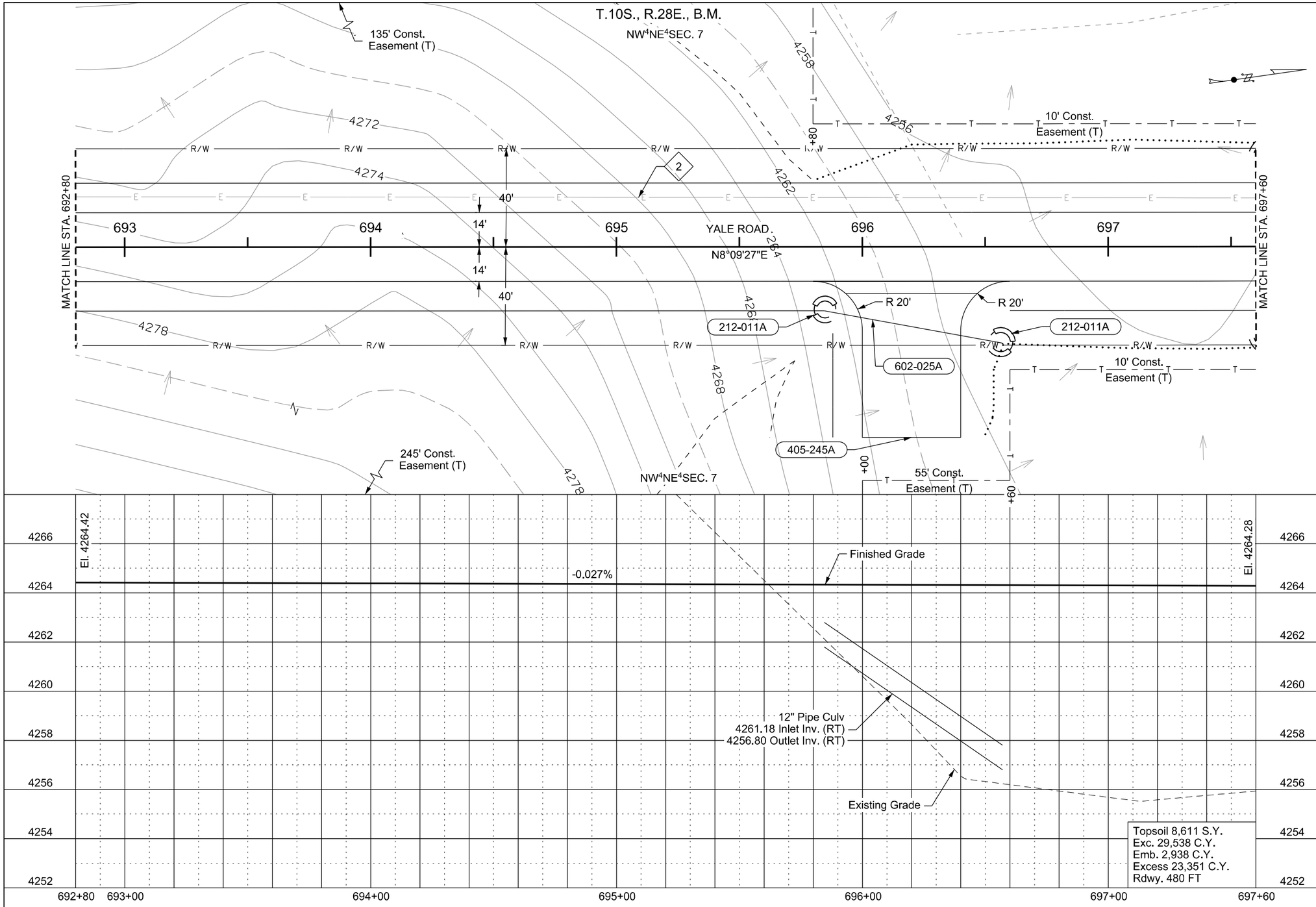
IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.	PROJECT PLAN / PROFILE SHEET
A019(637)	STC-2837, YALE RD STG 4 STA. 688+00 TO STA. 692+80

English

COUNTY	CASSIA
KEY NUMBER	19637
SHEET	19 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



Topsoil 8,611 S.Y.
Exc. 29,538 C.Y.
Emb. 2,938 C.Y.
Excess 23,351 C.Y.
Rdwy. 480 FT

212-011A FIBER WATTLE

25 FT Sta. 695+84 RT
25 FT Sta. 696+57 RT

405-245A APPROACH

1 EACH Sta. 696+20 RT W=40'

602-025A 12" PIPE CULVERT

74 FT Sta. 695+84.5 26.0' RT
to Sta. 696+57.0 39.2' RT

UTILITY

2 RELOCATE UNDERGROUND POWER BY RAFT RIVER RURAL ELECTRIC

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_PLPR_007
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

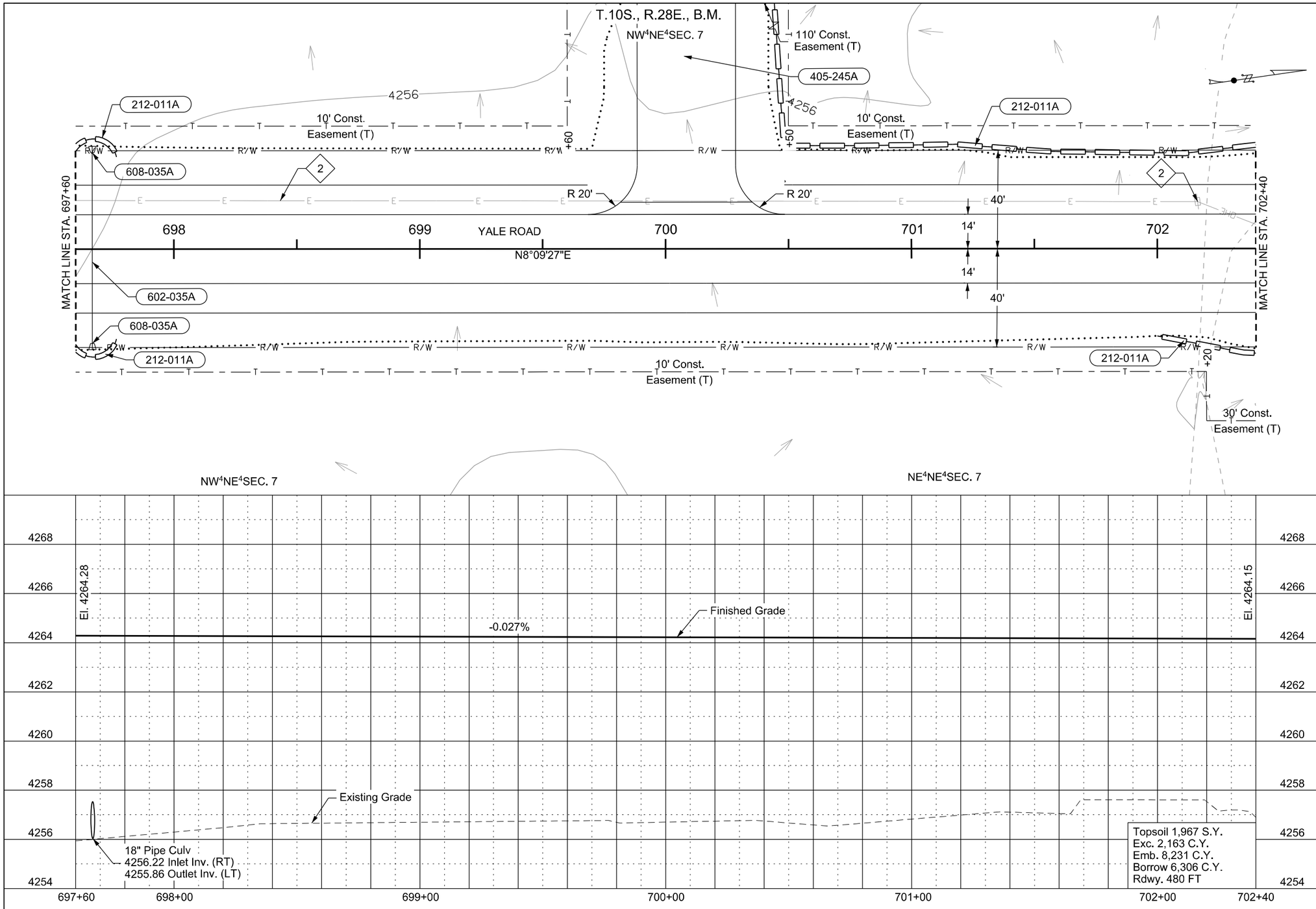
PROJECT NO.
A019(637)

PROJECT PLAN / PROFILE SHEET
STC-2837, YALE RD STG 4
STA. 692+80 TO STA. 697+60

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 20 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



212-011A FIBER WATTLE

25	FT	Sta. 697+67 RT
25	FT	Sta. 697+67 LT
306	FT	Sta. 700+30 LT
	to	Sta. 702+40 LT
41	FT	Sta. 702+00 RT
	to	Sta. 702+40 RT

405-245A APPROACH

1 EACH Sta. 700+10 LT W=40'

602-035A 18" PIPE CULVERT

78	FT	Sta. 697+66.9 38.3' RT
	to	Sta. 697+66.9 39.2' LT

608-035A 18" APRON FOR PIPE

1 EACH Sta. 697+66.9 38.3' RT
1 EACH Sta. 697+66.9 39.2' LT

UTILITY

2 RELOCATE POWER LINE BY RAFT RIVER RURAL ELECTRIC

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_PLPR_008
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

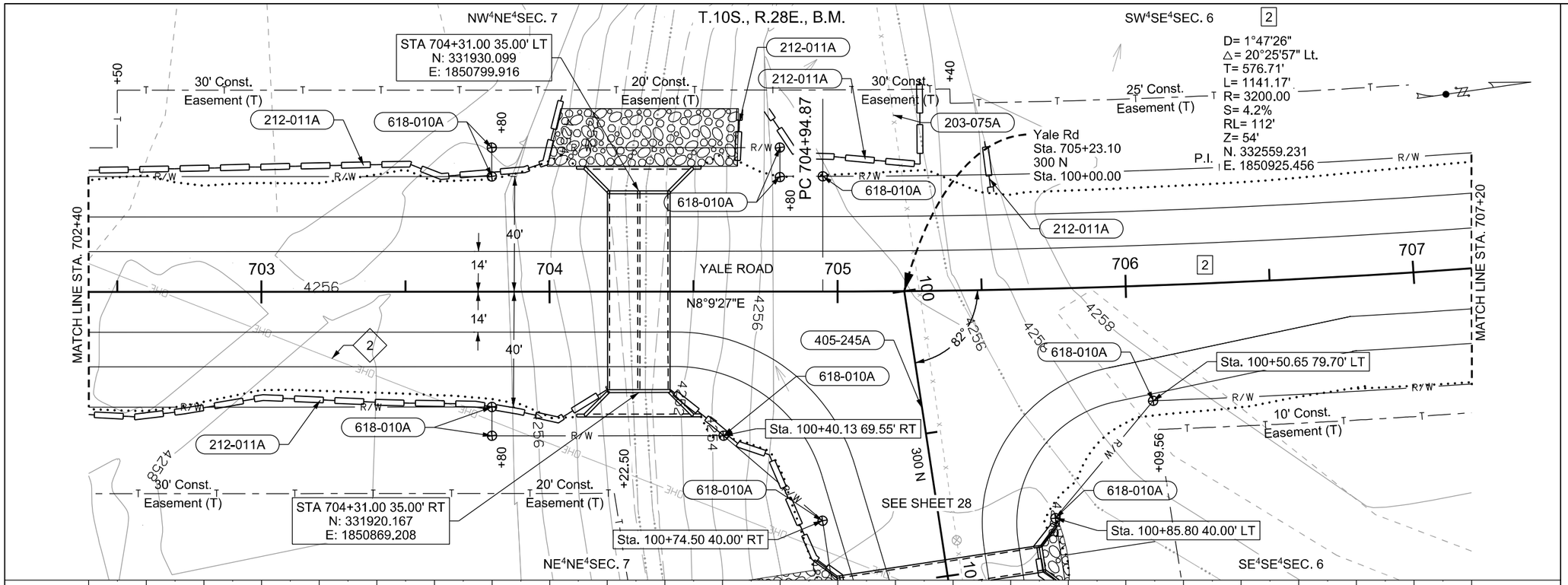
PROJECT NO.
A019(637)

PROJECT PLAN / PROFILE SHEET
STC-2837, YALE RD STG 4
STA. 697+60 TO STA. 702+40

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 21 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



203-075A	REMOVAL OF FENCE		
115	FT	Sta. 705+18 75' LT	
	to	Sta. 705+34 40' RT	
212-011A	FIBER WATTLE		
184	FT	Sta. 702+40 LT	
	to	Sta. 704+05 LT	
185	FT	Sta. 702+40 RT	
	to	Sta. 704+10 RT	
20	FT	Sta. 704+65 LT	
	to	Sta. 704+66 LT	
92	FT	Sta. 704+75 LT	
	to	Sta. 705+29 LT	
18	FT	Sta. 705+52 LT	
	to	Sta. 705+54 LT	
405-245A	APPROACH		
1	EACH	Sta. 705+25 RT	
618-010A	RIGHT-OF-WAY MARKER		
1	EACH	Sta. 703+80.00 40.00' RT	
1	EACH	Sta. 703+80.00 50.00' RT	
1	EACH	Sta. 703+80.00 40.00' LT	
1	EACH	Sta. 703+80.00 50.00' LT	
1	EACH	Sta. 704+80.00 40.00' LT	
1	EACH	Sta. 704+80.00 50.00' LT	
1	EACH	Sta. 704+60.38 50.00' RT	
1	EACH	Sta. 704+94.75 79.55' RT	
1	EACH	Sta. 704+94.87 40.00' LT	
1	EACH	Sta. 705+73.59 79.68' RT	
1	EACH	Sta. 706+08.12 40.00' RT	

UTILITY

2 RELOCATE POWER LINE BY RAFT RIVER RURAL ELECTRIC

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED R. RAMSEY	
DETAILED B. BINGHAM	CADD FILE NAME 19637_PLPR_009
DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.	PROJECT PLAN / PROFILE SHEET
A019(637)	STC-2837, YALE RD STG 4 STA. 702+40 TO STA. 707+20

English

COUNTY CASSIA

KEY NUMBER 19637

SHEET 22 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

T.10S., R.28E., B.M.

SW4SE4SEC. 6

2

D= 1°47'26"
△= 20°25'57" Lt.
T= 576.71'
L= 1141.17'
R= 3200.00
S= 4.2%
RL= 112'
Z= 54'
N. 332559.231
E. 1850925.456

P.I.

25' Const. Easement (T)

R/W

40'

14'

14'

40'

MATCH LINE STA. 707+20

MATCH LINE STA. 712+00

708

709

710

711

YALE ROAD

2

4.23%

10' Const. Easement (T)

+70

25' Const. Easement (T)

SE4SE4SEC. 6

4274
4272
4270
4268
4266
4264
4262
4260

El. 4264.30

VPI +00.00 - 4264.00'

365' VC

Finished Grade

VPT +82.50 - 4267.44'

1.882%

VPC +08.00 - 4269.80'

El. 4271.41

Existing Grade

Topsoil 2,483 S.Y.
Exc. 2,345 C.Y.
Emb. 10,080 C.Y.
Borrow 7,993 C.Y.
Rdwy. 480 FT

707+20 708+00 709+00 710+00 711+00 712+00

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME 19637_PLPR_010

DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

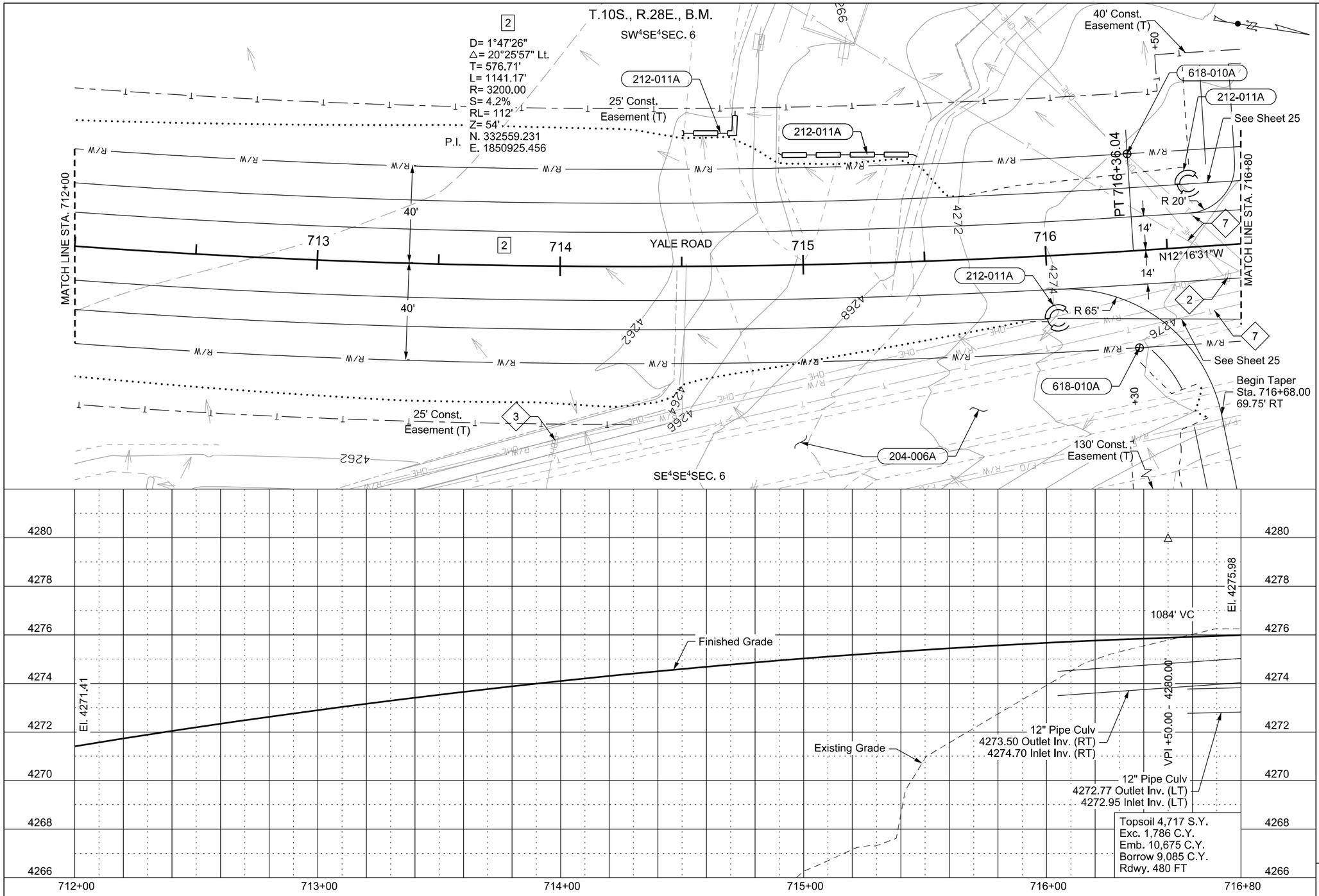
PROJECT NO.
A019(637)

PROJECT PLAN / PROFILE SHEET
STC-2837, YALE RD STG 4
STA. 707+20 TO STA. 712+00

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 23 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



204-006A OBLITERATION OF OLD ROAD

LS		Sta. 712+60 RT
to		Sta. 718+50 RT

212-011A FIBER WATTLE

30	FT	Sta. 714-50 LT
	to	Sta. 714+73 LT
59	FT	Sta. 714+90 LT
	to	Sta. 715+49 LT
25	FT	Sta. 716+03 RT
25	FT	Sta. 716+60 LT

618-010A RIGHT-OF-WAY MARKER

1	EACH	Sta. 716+36.04 40.00' RT
1	EACH	Sta. 716+36.04 40.00' LT

UTILITY

2 RELOCATE POWER LINE BY RAFT RIVER RURAL ELECTRIC

3 RETAIN & PROTECT EXISING POWER POLE

7 RELOCATE TELEPHONE LINE BY ATC COMMUNICATIONS

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED R. RAMSEY	
DETAILED B. BINGHAM	CADD FILE NAME 19637_PLPR_011
DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

PROJECT PLAN / PROFILE SHEET
STC-2837, YALE RD STG 4
STA. 712+00 TO STA. 716+80

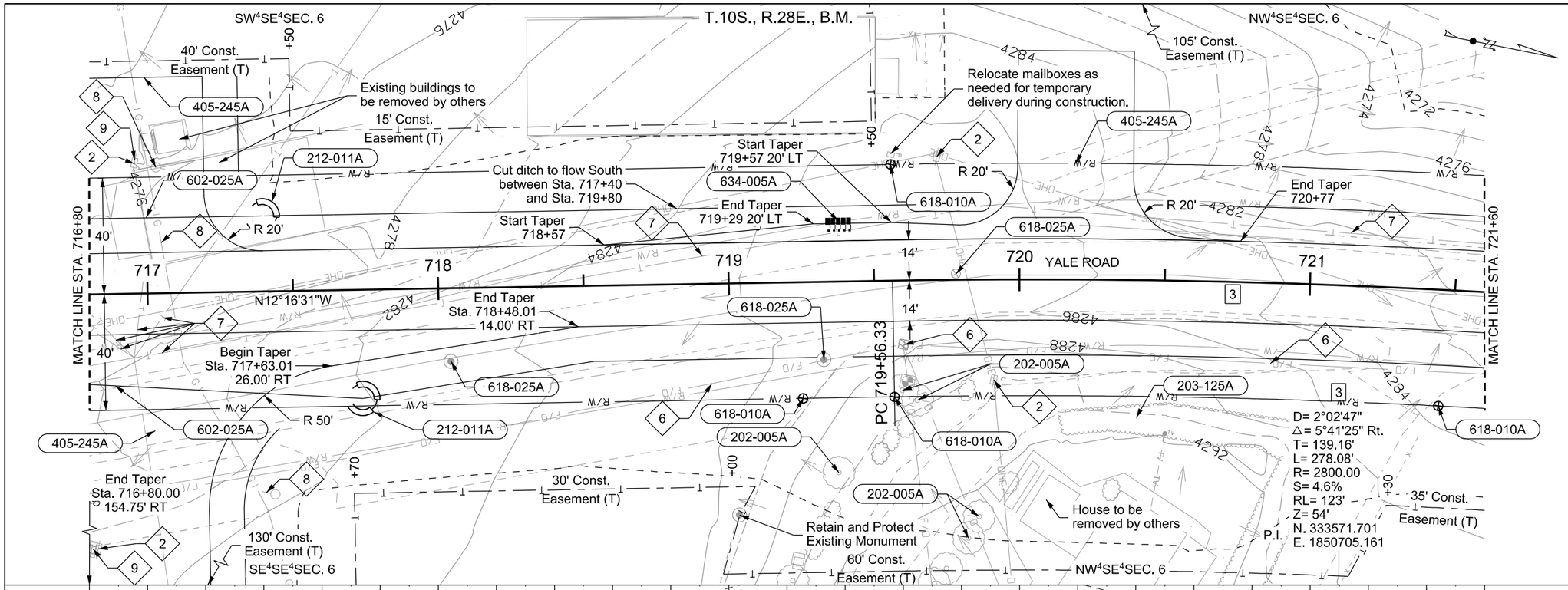
English

COUNTY CASSIA

KEY NUMBER 19637

SHEET 24 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



202-005A SELECTIVE REMOVAL OF TREES INCLUDING STUMPS

1	EACH	Sta. 719+37 RT
1	EACH	Sta. 719+59 RT
1	EACH	Sta. 719+64 RT
1	EACH	Sta. 719+82 RT
1	EACH	Sta. 719+86 RT

203-125A REMOVAL OF MISCELLANEOUS ITEMS (ROCK WALL)

1	LS	Sta. 720+10 RT
	to	Sta. 721+00 RT

212-011A FIBER WATTLE

25	FT	Sta. 717+40 LT
25	FT	Sta. 717+74 RT

405-245A APPROACH

1	EACH	Sta. 717+00 LT W=40'
1	EACH	Sta. 717+00 RT W=40'
1	EACH	Sta. 720+20 LT W=40'

602-025A 12" PIPE CULVERT

171	FT	Sta. 716+03.4 26.0' RT
	to	Sta. 717+73.5 37.4' RT
80	FT	Sta. 716+60.0 26.0' LT
	to	Sta. 717+40.0 26.0' LT

618-010A RIGHT-OF-WAY MARKER

1	EACH	Sta. 719+24.88 40.00' RT
1	EACH	Sta. 719+56.33 40.00' RT
1	EACH	Sta. 719+56.33 40.00' LT
1	EACH	Sta. 721+46.17 40.00' RT

618-025A STREET MONUMENTS

1	EACH	Sta. 718+04.00 25.25' RT
1	EACH	Sta. 719+32.28 26.82' RT
1	EACH	Sta. 719+78.19 2.03' LT

634-005A MAILBOX (TYPE B ASSEMBLY)

2	EACH	Sta. 719+38 LT (5 Mailboxes)

UTILITY

2 RELOCATE POWER LINE BY RAFT RIVER RURAL ELECTRIC

6 RELOCATE FIBER OPTIC LINE BY ATC COMUNICATIONS

7 RELOCATE TELEPHONE LINE BY ATC COMMUNICATIONS

8 RELOCATE GAS LINE BY INTERMOUNTAIN GAS COMPANY

9 RELOCATE IRRIGATION BY OWNER

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_PLPR_012
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO. A019(637)

PROJECT PLAN / PROFILE SHEET
STC-2837, YALE RD STG 4
STA. 716+80 TO STA. 721+60

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 25 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

T.10S., R.28E., B.M.

NW^{4}SE^{4}SEC. 6

105' Const. Easement (T)

20' Const. Easement (T)

618-010A

618-025A

MATCH LINE STA. 721+60

MATCH LINE STA. 726+40

722 723 724 725 726

YALE ROAD

N6°35'5"W

40'

14'

14'

40'

PT 722+34.42

D= 2°02'47"
△= 5°41'25" Rt.
T= 139.16'
L= 278.08'
R= 2800.00
S= 4.6%
RL= 123'
Z= 54'
N. 333571.701
E. 1850705.161
P.I.

35' Const. Easement (T)

30' Const. Easement (T)

NW^{4}SE^{4}SEC. 6

Existing Grade

Finished Grade

El. 4274.10

VPT +92.00 - 4273.75'

-1.154%

El. 4268.58

4278 4276 4274 4272 4270 4268 4266 4264

721+60 722+00 723+00 724+00 725+00 726+00 726+40

Topsoil 3,978 S.Y.
Exc. 8,464 C.Y.
Emb. 224 C.Y.
Excess 7,309 C.Y.
Rdwy. 480 FT

618-010A RIGHT-OF-WAY MARKER

1 EACH Sta. 722+34.42 40.00' RT
1 EACH Sta. 722+34.42 40.00' LT

618-025A STREET MONUMENT

1 EACH Sta. 721+64.36 2.24' RT

UTILITY

3 RETAIN & PROTECT EXISTING POWER LINE

5 RETAIN & PROTECT EXISTING GAS LINE

6 RELOCATE FIBER OPTIC LINE BY ATC COMMUNICATIONS

7 RELOCATE TELEPHONE LINE BY ATC COMMUNICATIONS

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_PLPR_013
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

PROJECT PLAN / PROFILE SHEET
STC-2837, YALE RD STG 4
STA. 721+60 TO STA. 726+40

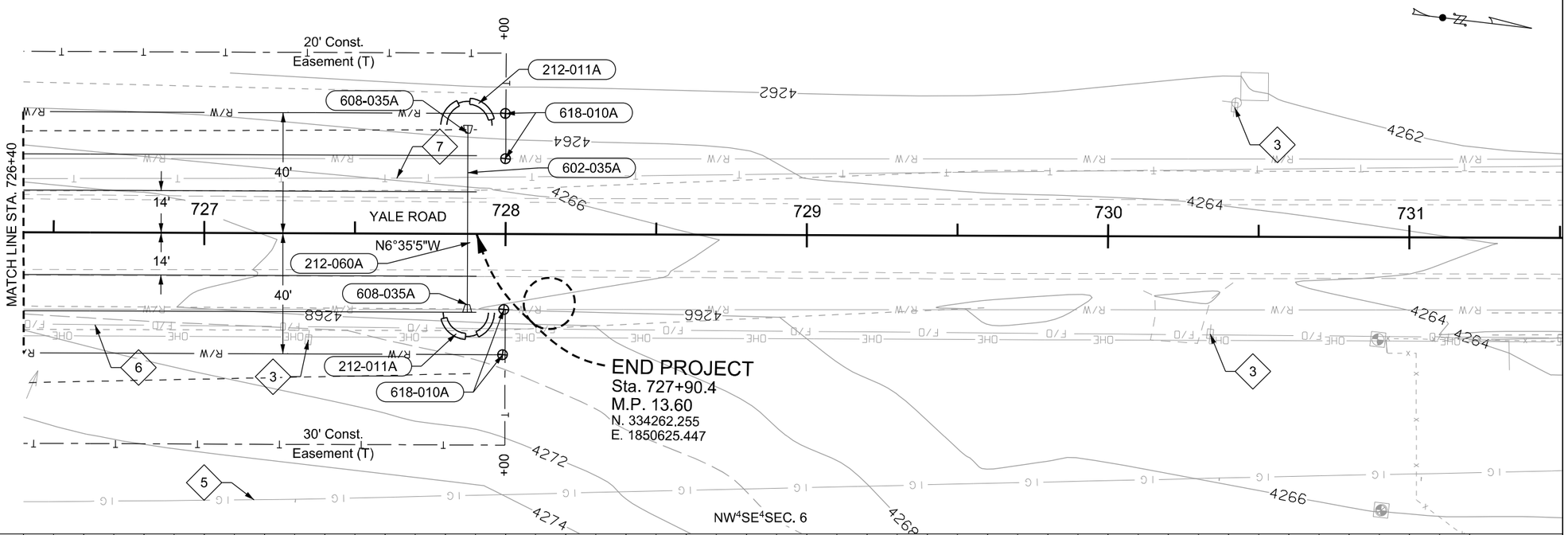
English

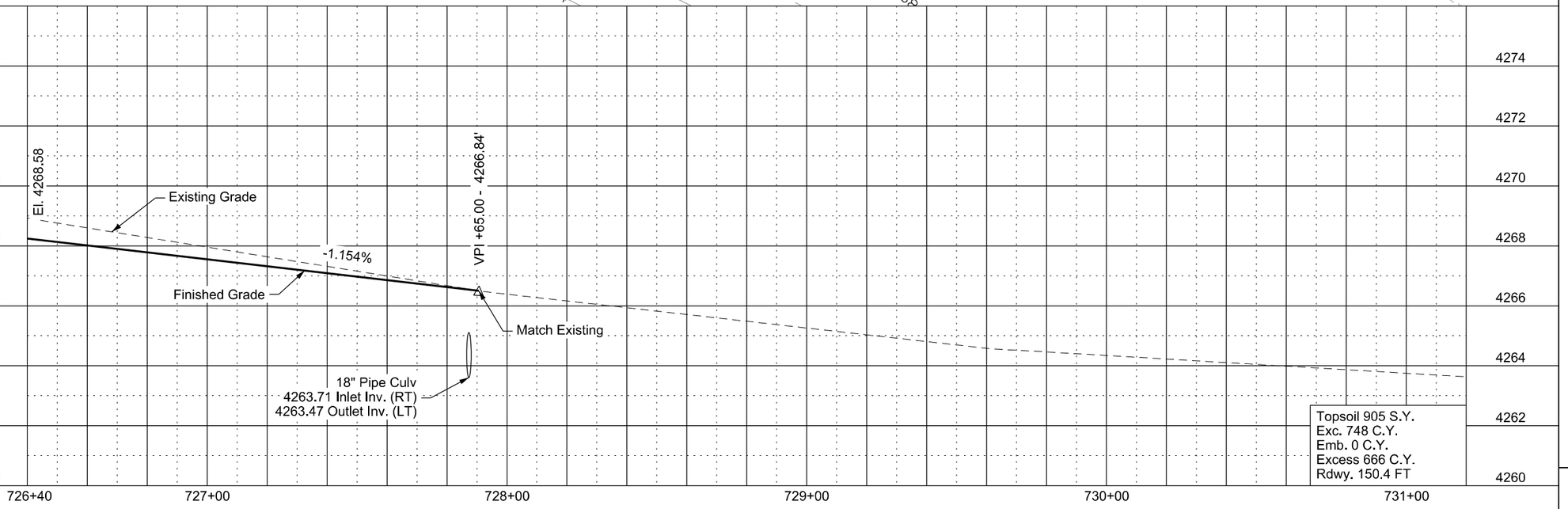
COUNTY CASSIA
KEY NUMBER 19637
SHEET 26 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

T.10S., R.28E., B.M.

NW4SE4SEC. 6





Topsoil 905 S.Y.
Exc. 748 C.Y.
Emb. 0 C.Y.
Excess 666 C.Y.
Rdwy. 150.4 FT

212-011A FIBER WATTLE

25 FT Sta. 727+87 RT
25 FT Sta. 727+87 LT

212-060A STABILIZED CONSTRUCTION ENTRANCE

1 EACH Sta. 727+90

602-035A 18" PIPE CULVERT

57 FT Sta. 727+87.4 23.4' RT
to Sta. 727+87.4 33.1' LT

608-035A 18" APRON FOR PIPE

1 EACH Sta. 727+87.4 23.4' RT
1 EACH Sta. 727+87.4 33.1' LT

618-010A RIGHT-OF-WAY MARKER

1 EACH Sta. 728+00.00 40.00' RT
1 EACH Sta. 728+00.00 40.00' LT
1 EACH Sta. 728+00.00 25.00' RT
1 EACH Sta. 728+00.00 25.00' LT

UTILITY

3 RETAIN & PROTECT EXISTING POWER LINE

5 RETAIN & PROTECT EXISTING GAS LINE

6 RELOCATE FIBER OPTIC LINE BY ATC COMMUNICATIONS

7 RELOCATE TELEPHONE LINE BY ATC COMMUNICATIONS

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_PLPR_014
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

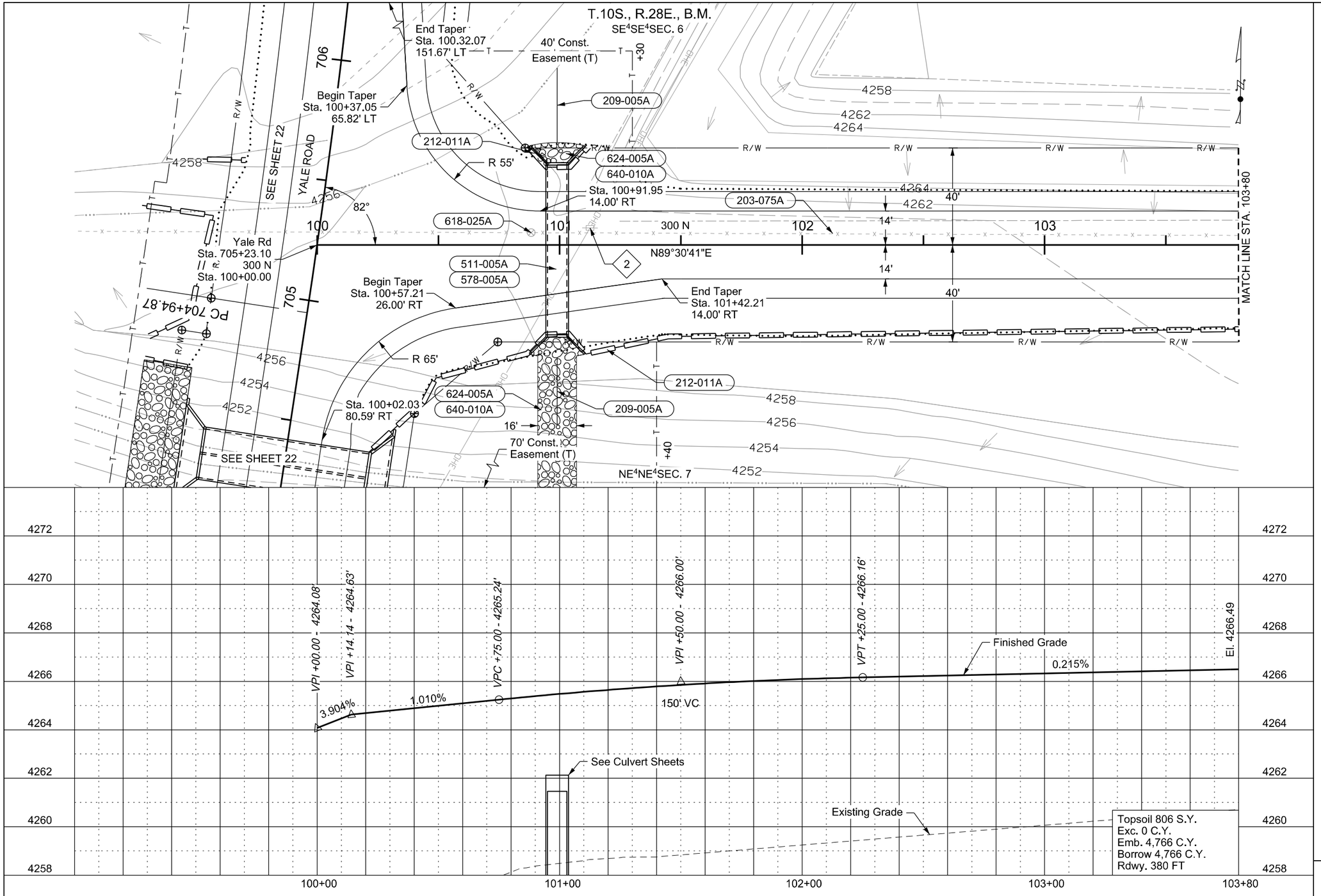
PROJECT NO.
A019(637)

PROJECT PLAN / PROFILE SHEET
STC-2837, YALE RD STG 4
STA. 726+40 TO STA. 727+90.4

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 27 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



203-075A	REMOVAL OF FENCE		
339	FT	Sta. 100+41 LT	
	to	Sta. 103+80 LT	

209-005A	SMALL DITCH	
31	FT	Sta. 100+99 42' LT
	to	Sta. 100+99 73' LT
28	FT	Sta. 100+99 46' RT
	to	Sta. 100+99 74' RT

212-011A	FIBER WATTLE	
382	FT	Sta. 100+35 RT
	to	Sta. 103+80 RT
33	FT	Sta. 101+00 LT

511-005A	CONCRETE WATERPROOF SYSTEM (TYPE D)	
120	SY	Sta. 100+99 33' LT
	to	Sta. 100+99 37' RT

578-005A	PRECAST CONCRETE CULVERT (72' x 8' x 6')	
1	LS	Sta. 100+99 34' LT
	to	Sta. 100+99 38' RT

618-025A	STREET MONUMENT
1	EACH Sta. 100+88.30 5.02' LT

624-005A	LOOSE RIPRAP	
5	CY	Sta. 100+99 LT
39	CY	Sta. 100+99 RT

640-010A	RIPRAP/EROSION CONTROL GEOTEXTILE	
14	SY	Sta. 100+99 LT
116	SY	Sta. 100+99 RT

UTILITY

◇2 RELOCATE POWER LINE BY RAFT RIVER RURAL ELECTRIC

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED R. RAMSEY	
DETAILED B. BINGHAM	CADD FILE NAME 19637_PLPR_015
DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.	PROJECT PLAN / PROFILE SHEET
A019(637)	STC-2837, YALE RD STG 4 STA. 100+00 TO STA. 103+80

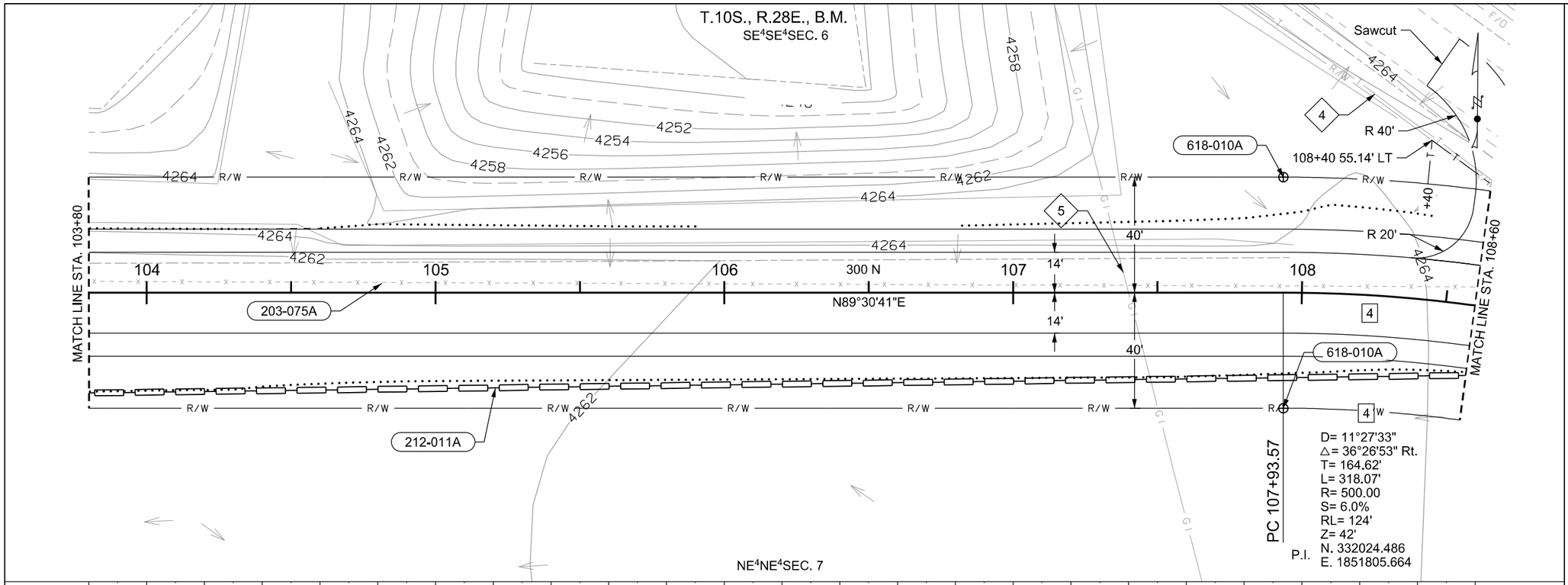
English

COUNTY CASSIA

KEY NUMBER 19637

SHEET 28 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



203-075A REMOVAL OF FENCE

480 FT Sta. 103+80 LT
to Sta. 108+60 LT

212-011A FIBER WATTLE

480 FT Sta. 103+80 RT
to Sta. 108+60 RT

618-010A RIGHT-OF-WAY MARKER

1 EACH Sta. 107+93.57 40.00' RT
1 EACH Sta. 107+93.57 40.00' LT

UTILITY

4 RETAIN & PROTECT EXISTING TELEPHONE LINE

5 RETAIN & PROTECT EXISTING GAS LINE

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED R. RAMSEY	
DETAILED B. BINGHAM	CADD FILE NAME 19637_PLPR_016
DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

PROJECT PLAN / PROFILE SHEET
STC-2837, YALE RD STG 4
STA. 103+80 TO STA. 108+60

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 29 OF 46

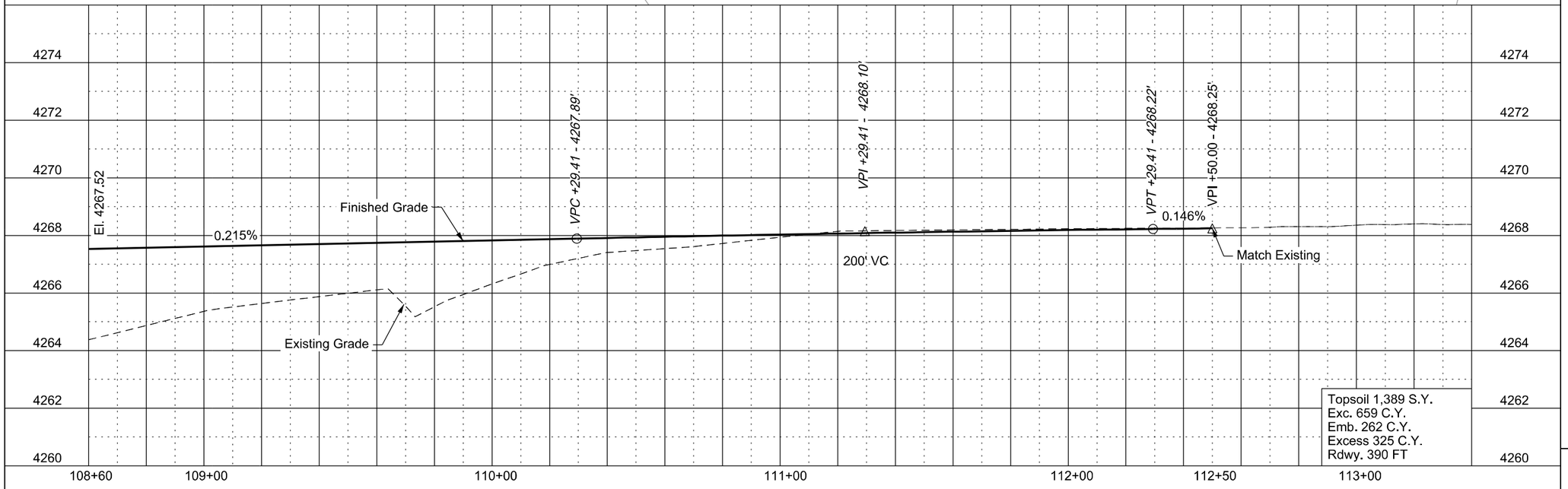
PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

T.10S., R.28E., B.M.
SE4SE4SEC. 6

204-006A
405-245A
618-025A
618-010A
405-245A
618-010A
R 60'
108+64.17 40' LT
R 20'
203-075A
203-075A
212-060A
618-010A
618-010A
618-010A
618-010A
10' Const. Easement (T)
END CONSTRUCTION
Sta. 112+50
N. 331846.569
E. 1852050.912
300 N
S54°2'26"E
Match Existing
MATCH LINE STA. 108+60
PT 111+11.64
40'
14'
109
110
111
112
113
4266
4268

4
D= 11°27'33"
△= 36°26'53" Rt.
T= 164.62'
L= 318.07'
R= 500.00
S= 6.0%
RL= 124'
Z= 42'
P.I. N. 332024.486
E. 1851805.664

NE4NE4SEC. 7



Topsoil 1,389 S.Y.
Exc. 659 C.Y.
Emb. 262 C.Y.
Excess 325 C.Y.
Rdwy. 390 FT

203-075A REMOVAL OF FENCE

60	FT	Sta. 108+60 6' LT
	to	Sta. 109+18 18' LT
384	FT	Sta. 108+75 40' LT
	to	Sta. 112+50 35' RT

204-006A OBLITERATION OF OLD ROAD

LS Sta. 109+00 LT

212-060A STABILIZED CONSTRUCTION ENTRANCE

1 EACH Sta. 112+50

405-245A APPROACH

1 EACH Sta. 108+65 LT W=20'
1 EACH Sta. 111+65 LT W=20'

618-010A RIGHT-OF-WAY MARKER

1 EACH Sta. 111+11.64 40.00' RT
1 EACH Sta. 111+11.64 40.00' LT
1 EACH Sta. 112+50.00 40.00' RT
1 EACH Sta. 112+50.00 25.00' RT
1 EACH Sta. 112+50.00 25.00' LT
1 EACH Sta. 112+50.00 40.00' LT

618-025A STREET MONUMENT

1 EACH Sta. 109+51.37 27.57' LT

UTILITY

3 RETAIN & PROTECT EXISTING POWER LINE

6 RELOCATE FIBER OPTIC LINE BY ATC COMMUNICATIONS

7 RELOCATE TELEPHONE LINE BY ATC COMMUNICATIONS

NOTES

1. Contractor to confirm all utility locations prior to construction through potholing or other means.

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_PLPR_017
DRAWING DATE: 26-NOV-2025

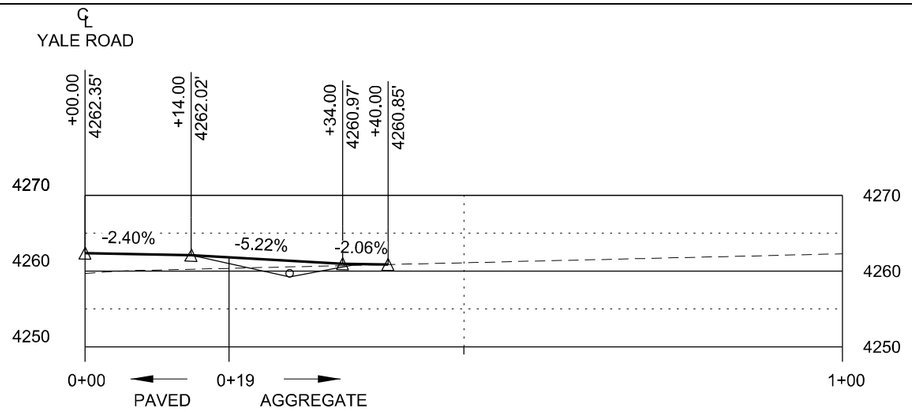
IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

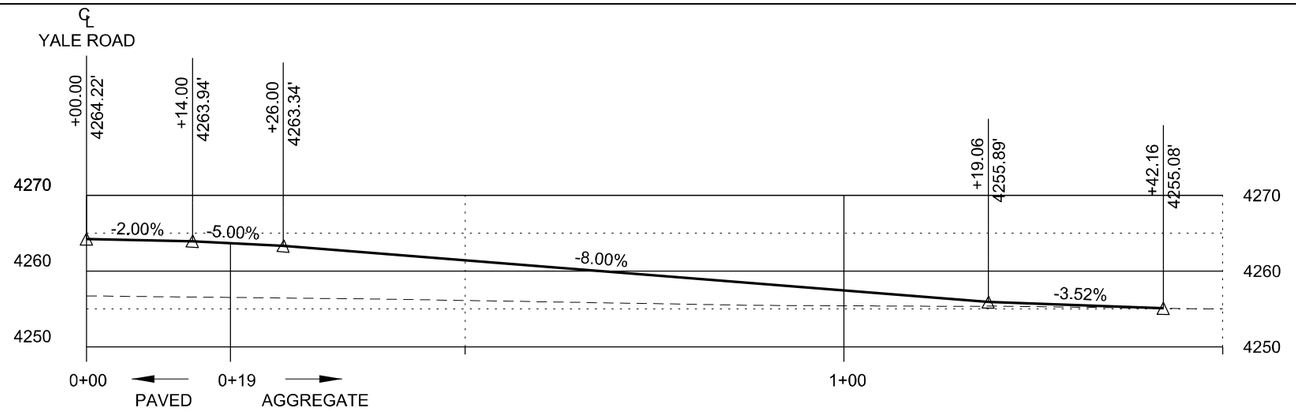
PROJECT NO. A019(637)

PROJECT PLAN / PROFILE SHEET
STC-2837, YALE RD STG 4
STA. 108+60 TO STA. 112+50

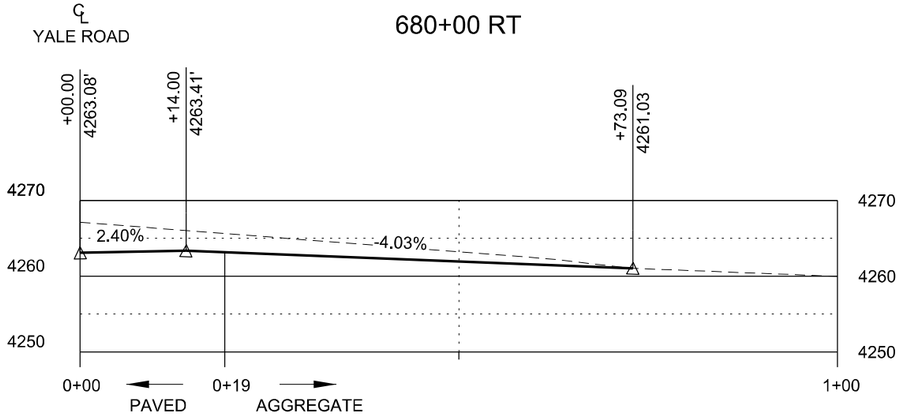
English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 30 OF 46

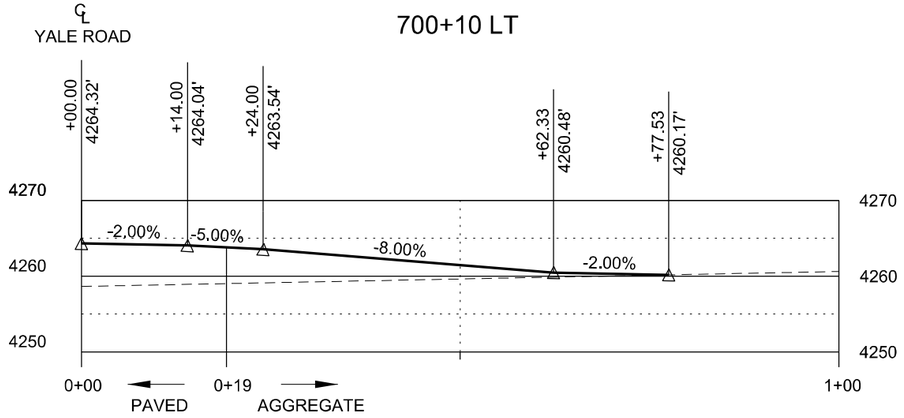




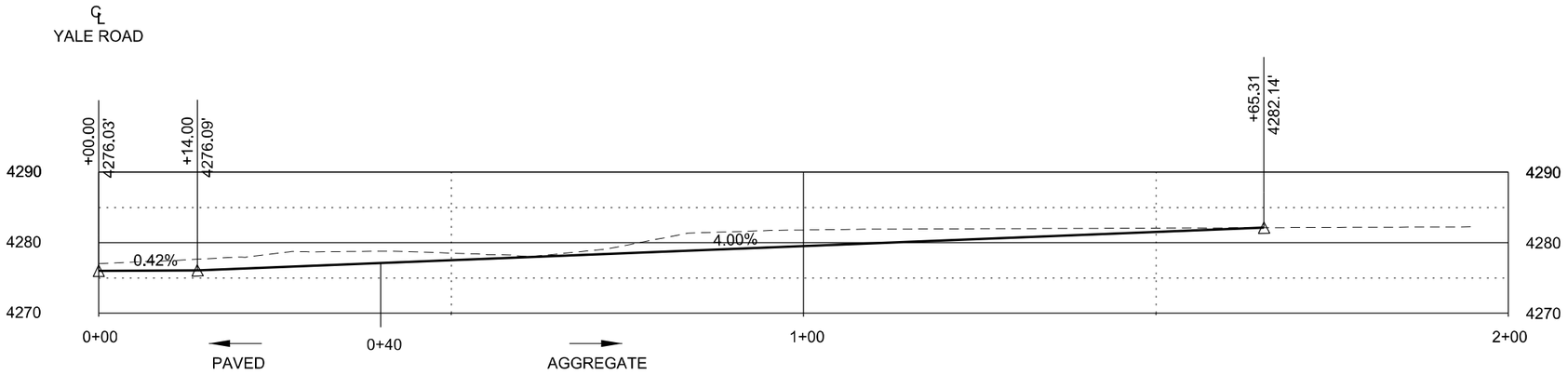
680+00 RT



700+10 LT



683+70 LT



696+20 RT

717+00 RT

NOTE:

APPROACH ALIGNMENTS ARE PERPENDICULAR TO YALE ROAD UNLESS ANGLE IS IDENTIFIED ON PLAN SHEETS.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED R. RAMSEY	
DETAILED B. BINGHAM	CADD FILE NAME 19637_ADTL_001
DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.	APPROACH DETAIL
A019(637)	STC-2837, YALE RD STG 4

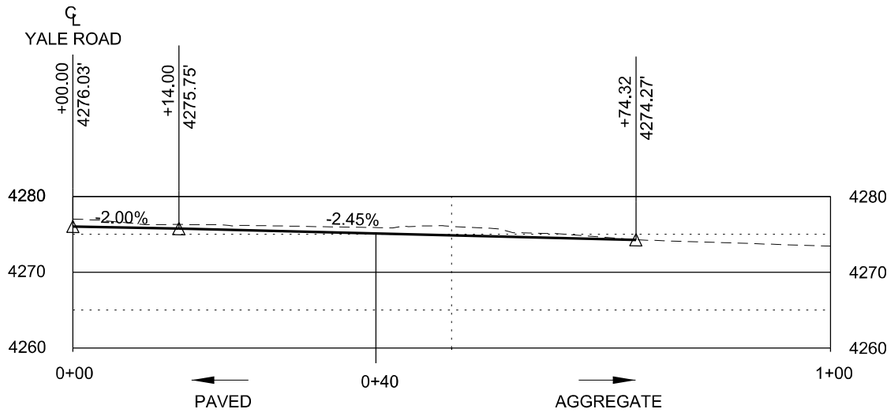
English

COUNTY CASSIA

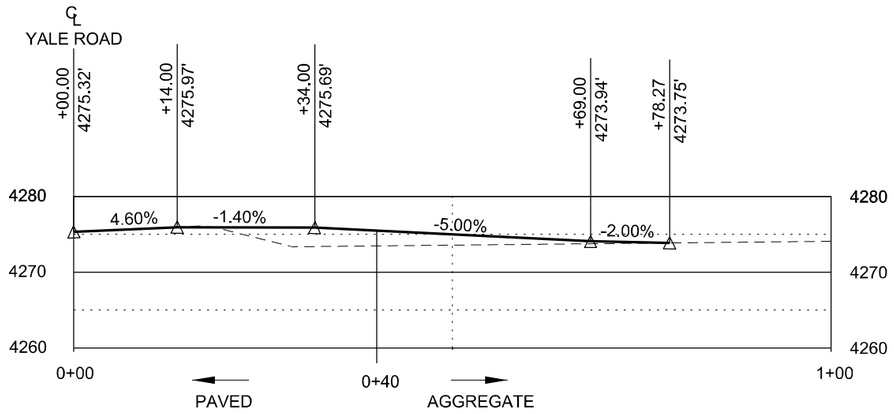
KEY NUMBER 19637

SHEET 31 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

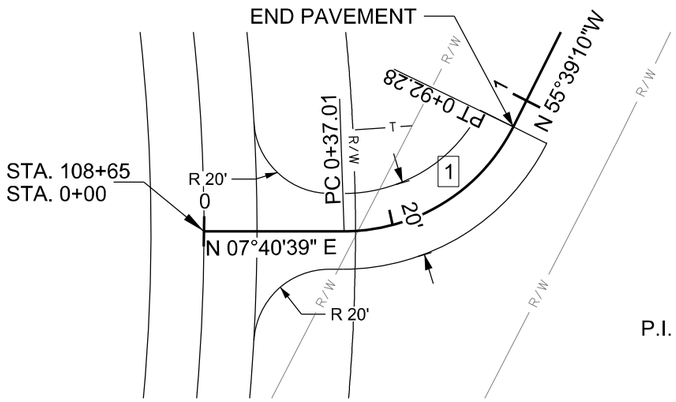


717+00 LT



720+20 LT

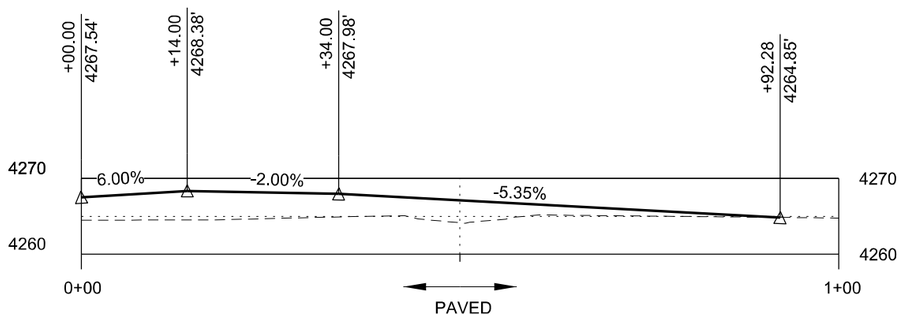
The mailbox turnout adjacent to this approach is included with this approach bid item and the entire mailbox turnout is to be paved.



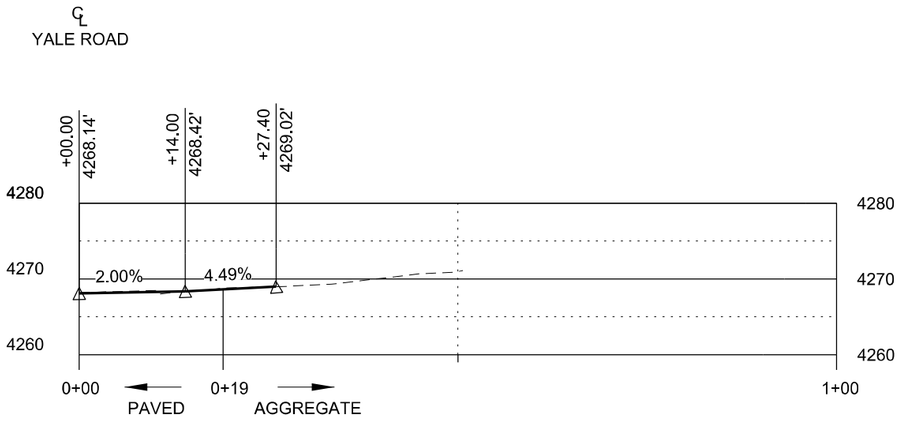
1
D= 114°35'30"
△ = 63°19'49" Lt.
T= 30.84
L= 55.27
R= 50'
P.I. N. 332085.860
E. 1851721.174

℄
YALE ROAD

108+65 LT
Plan View



108+65 LT



111+65 LT

NOTE:

APPROACH ALIGNMENTS ARE PERPENDICULAR TO YALE ROAD UNLESS ANGLE IS IDENTIFIED ON PLAN SHEETS.

REVISIONS				DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT YOUR Safety→YOUR Mobility→YOUR Economic Opportunity	PROJECT NO.	APPROACH DETAIL	English Benjamin A. Bingham
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED R. RAMSEY			A019(637)	STC-2837, YALE RD STG 4	COUNTY CASSIA
				DETAILED B. BINGHAM	CADD FILE NAME 19637_ADTL_002				KEY NUMBER 19637
				DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025	CIVIL SCIENCE			SHEET 32 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

SIGN ASSEMBLY	STATION, OFFSET (XXX+XX.XX, RT/LT, SHLD, OR MEDIAN IF ON DIVIDED HWY)	RAMP NUMBER OR LOCAL STREET	FOUNDATION SIZE (INxIN OR INxINxIN)	POST TYPE (A-X, B-X, D-X, E-X)	OFFSET FROM SHLD. OR FACE OF CURB TO POST 1 CENTER (FT)	DISTANCE BETWEEN POSTS (IF USING 2 OR 3 POSTS, FT)	POST 1 LENGTH* (FT)	POST 2 LENGTH* (IF USING 2 OR 3 POSTS, FT)	POST 3 LENGTH* (IF USING 3 POSTS, FT)	DISTANCE FROM SHOULDER OR TOP OF CURB TO SIGN BOTTOM (FT)	SIGN TYPE (B-X, C-X, E)	SIGN DESIGNATION	SIGN SIZE† (INxIN)	SIGN AREA (SF)	SIGN BACKGROUND † COLOR	MAIN SIGN LEGEND † COLOR	SIGN BRACE WEIGHT (LBS)	SIGN BRACKET WEIGHT (LBS)	BRACKET NUMBER	NOTES (SIGN LEGEND, SIGN DESCRIPTION, ETC.)
1	658+50 RT	Yale Road		D-2	14.5		12.2			4.0	B-1	W2-2	36x36	9.0	YELLOW	BLACK	12			
											B-1	W16-8P	24x8	1.3	YELLOW	BLACK				Lanes Rd
2	667+00 LT	Yale Road		D-2	14.5		16.5			4.0	B-1	W2-2	36x36	9.0	YELLOW	BLACK	12			
											B-1	W16-8P	24x8	1.3	YELLOW	BLACK				Lanes Rd
3	701+50 RT	Yale Road		D-2	14.5		16.9			4.0	B-1	W2-2	36x36	9.0	YELLOW	BLACK	12			
											B-1	W16-8P	24x8	1.3	YELLOW	BLACK				E 300 N
4	705+23 LT	Yale Road		D-2	12.5		14.0			5.0	B-1	W1-7	48x24	8.0	YELLOW	BLACK	19.4			
5	709+50 LT	Yale Road		D-2	14.5		16.6			4.0	B-1	W2-2	36x36	9.0	YELLOW	BLACK	12			
											B-1	W16-8P	24x8	1.3	YELLOW	BLACK				E 300 N
6	713+50 RT	Yale Road		D-2	14.5		17.1			5.0	B-1	W8-6	36x36	9.0	YELLOW	BLACK	12			
7	723+50 LT	Yale Road		D-2	14.5		17.1			5.0	B-1	W8-6	36x36	9.0	YELLOW	BLACK	12			
8	100+60 LT	E 300 N		D-3	19.9		19.5			5.0	B-1	R1-1	36x36	9.0	RED	WHITE	14.8			
											B-1	D3	24x12	2.0	GREEN	WHITE				Yale Rd
											B-1	D3	24x12	2.0	GREEN	WHITE				E 300 N
											B-1	D3	24x12	2.0	GREEN	WHITE				E 300 N

* POST LENGTHS ARE APPROXIMATE. FINALIZE POST LENGTHS IN THE FIELD BEFORE ASSEMBLY.
† FABRICATE SIGNS IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS AND MARKINGS (SHSM) BOOK, FHWA SHSM SUPPLEMENT, ITD SHSM SUPPLEMENT, OR AS SPECIFIED.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_SESM_001
DRAWING DATE: 26-NOV-2025

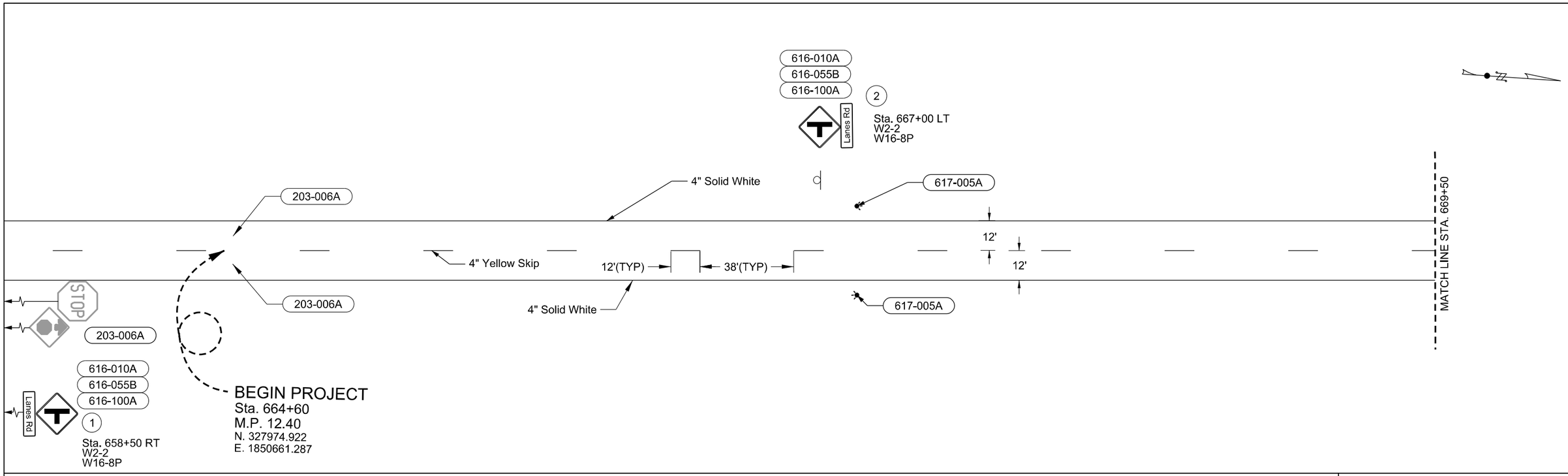
IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

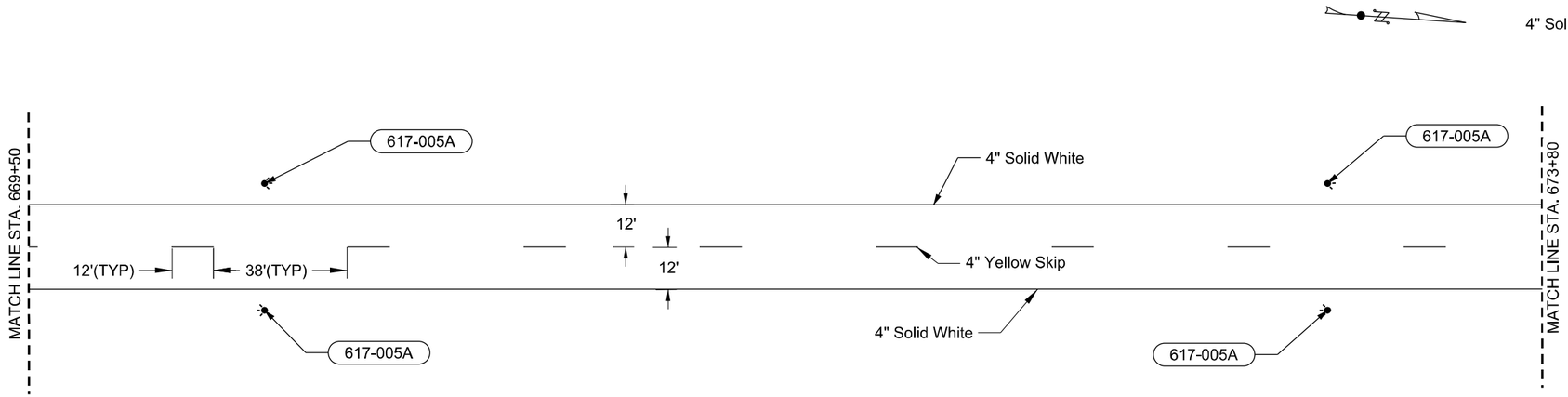
PROJECT NO.
A019(637)

SIGN SUMMARY
STC-2837, YALE RD STG 4

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 33 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM





630-025A LONGITUDINAL PAVEMENT MARKING - WATERBORNE

4" Broken Yellow Line
554 FT Sta. 662+26 0' RT
to Sta. 673+80 0' RT

4" Solid White Line
2308 FT Sta. 662+26 12' LT
to Sta. 673+80 12' LT
2010 FT Sta. 663+75 12' RT
to Sta. 673+80 12' RT

203-006A REMOVAL OF SIGN

1 EACH Sta. 657+00 RT
1 EACH Sta. 662+26 RT
1 EACH Sta. 664+65 LT (Barricade)
1 EACH Sta. 664+65 RT (Barricade)

616-010A SIGN TYPE B-1

10.3 SF Sta. 658+50 RT
10.3 SF Sta. 667+00 LT

616-055B WOOD SIGN POST TYPE D-2

12.2 FT Sta. 658+50 RT
16.5 FT Sta. 667+00 LT

616-100A SIGN BRACES

12 LB Sta. 658+50 RT
12 LB Sta. 667+00 LT

617-005A DELINEATOR TYPE 1

6 EACH

DELINEATOR TABLE _

TYPE	1R	1R
STATION	LT.	RT.
667+16	1	1
670+18	1	1
673+19	1	1

NOTE:
All Ty. 1R Delineators shall be White.

All Ty. 4R Delineators Shall be Yellow.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_SIGN_001
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

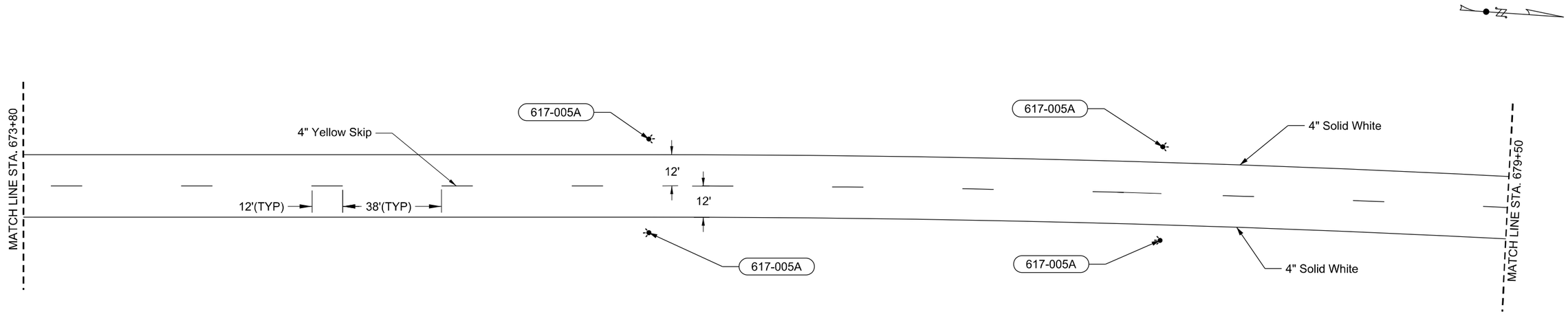
PROJECT NO.
A019(637)

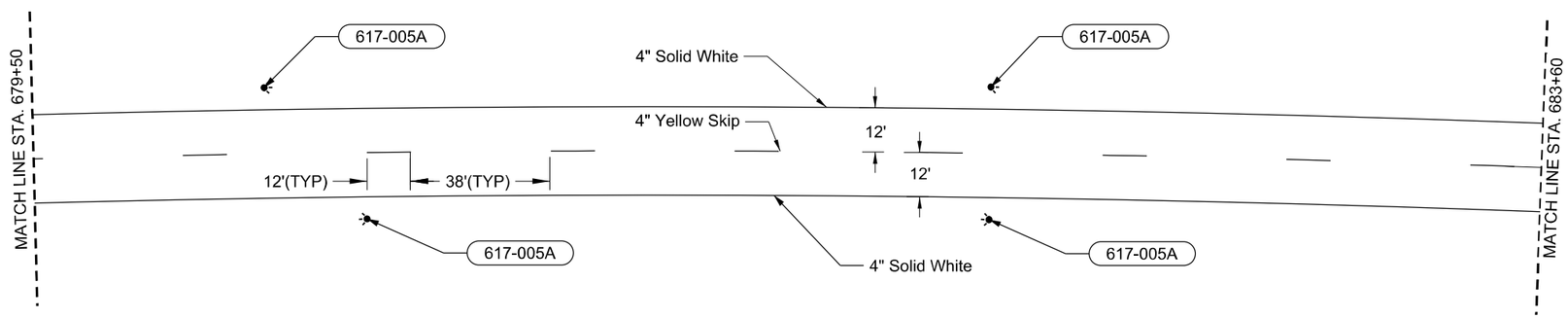
SIGN & PAVEMENT MARKINGS PLAN
STC-2837, YALE RD STG 4
STA 664+60 TO STA 673+80

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 34 OF 46

PROFESSIONAL ENGINEER LICENSED
19331
11/26/2025
STATE OF IDAHO
BENJAMIN A. BINGHAM





DELINEATOR TABLE _		
TYPE	1R	1R
STATION	LT.	RT.
676+20	1	1
678+17	1	1
680+13	1	
680+40		1
682+10	1	1

617-005A DELINEATOR TYPE 1

8 EACH

630-025A LONGITUDINAL PAVEMENT MARKING - WATERBORNE

4" Broken Yellow Line

470	FT	Sta. 673+80 0' RT
	to	Sta. 683+60 0' RT

4" Solid White Line

1960	FT	Sta. 673+80 12' LT
	to	Sta. 683+60 12' LT
1960	FT	Sta. 673+80 12' RT
	to	Sta. 683+60 12' RT

NOTE:

All Ty. 1R Delineators shall be White.

All Ty. 4R Delineators Shall be Yellow.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_SIGN_002
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

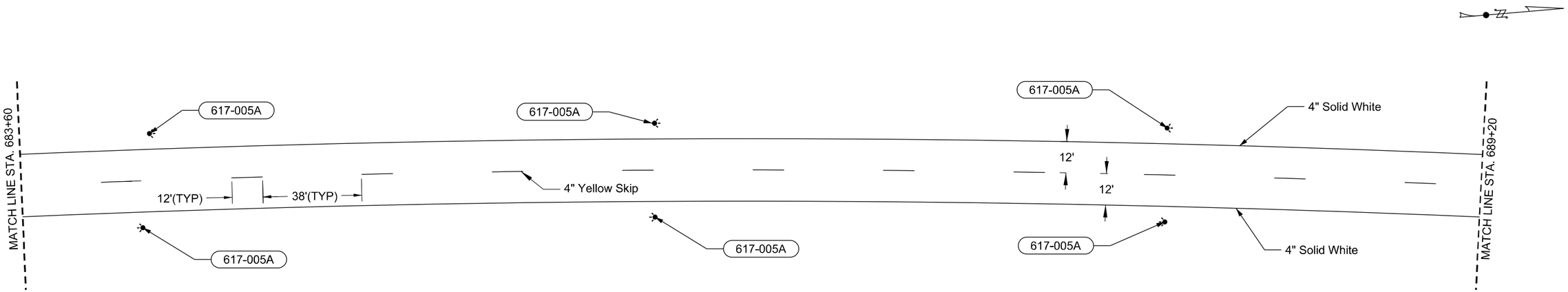
PROJECT NO.
A019(637)

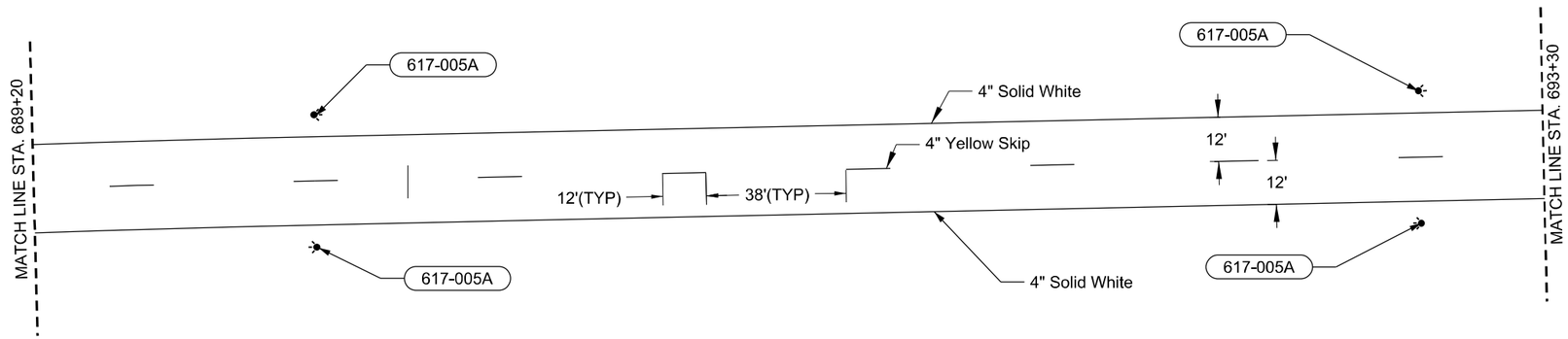
SIGN & PAVEMENT MARKINGS PLAN
STC-2837, YALE RD STG 4
STA 673+80 TO STA 683+60

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 35 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM





617-005A DELINEATOR TYPE 1
10 EACH

630-025A LONGITUDINAL PAVEMENT MARKING - WATERBORNE
4" Broken Yellow Line
466 FT Sta. 683+60 0' RT
to Sta. 693+30 0' RT
4" Solid White Line
1940 FT Sta. 683+60 12' LT
to Sta. 693+30 12' LT
1940 FT Sta. 683+60 12' RT
to Sta. 693+30 12' RT

DELINEATOR TABLE

TYPE STATION	1R LT.	1R RT.
684+06		1
684+10	1	
686+03	1	1
687+99	1	1
689+96	1	1
692+96	1	1

NOTE:
All Ty. 1R Delineators shall be White.

All Ty. 4R Delineators Shall be Yellow.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_SIGN_003
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

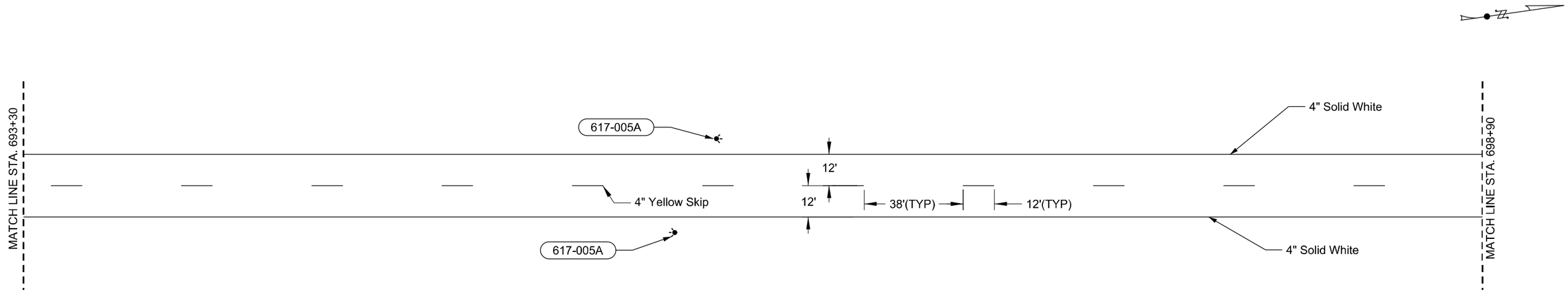
PROJECT NO.
A019(637)

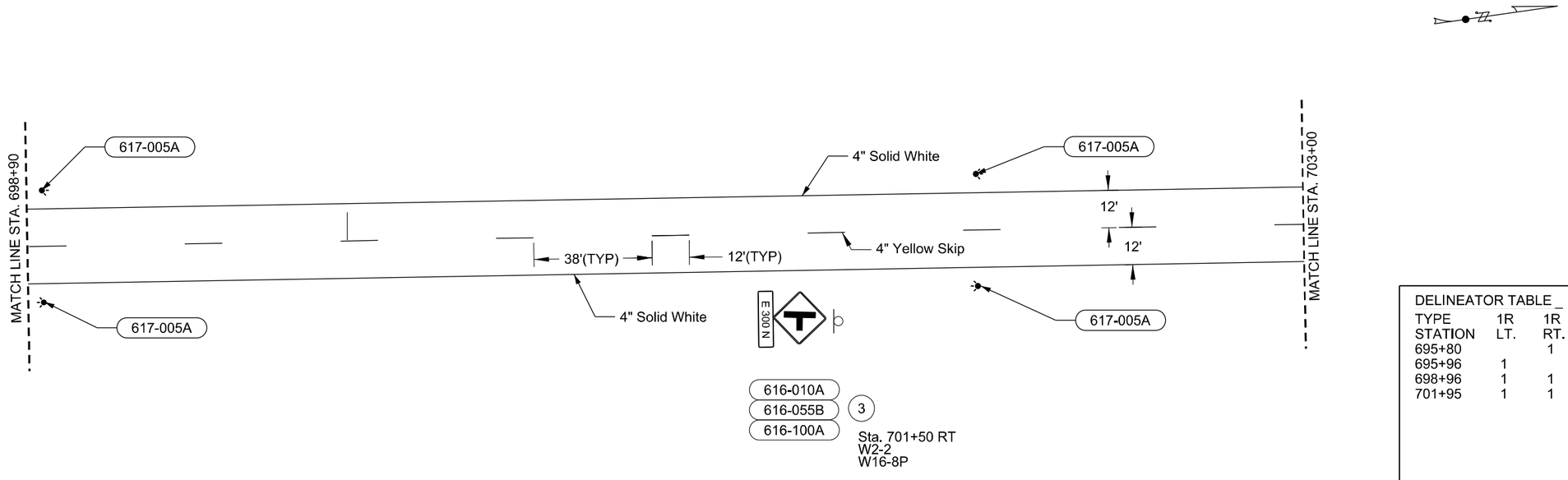
SIGN & PAVEMENT MARKINGS PLAN
STC-2837, YALE RD STG 4
STA 683+60 TO STA 693+30

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 36 OF 46

PROFESSIONAL ENGINEER LICENSED
Benjamin A. Bingham
19331
11/26/2025
STATE OF IDAHO
BENJAMIN A. BINGHAM





616-010A
616-055B 3
616-100A
Sta. 701+50 RT
W2-2
W16-8P

DELINEATOR TABLE _		
TYPE	1R	1R
STATION	LT.	RT.
695+80		1
695+96	1	
698+96	1	1
701+95	1	1

616-010A SIGN TYPE B-1
10.3 SF Sta. 701+50 RT

616-055B WOOD SIGN POST TYPE D-2
16.9 FT Sta. 701+50 RT

616-100A SIGN BRACES
12 LB Sta. 701+50 RT

617-005A DELINEATOR TYPE 1
6 EACH

630-025A LONGITUDINAL PAVEMENT MARKING - WATERBORNE
4" Broken Yellow Line
466 FT Sta. 693+30 0' RT
to Sta. 703+00 0' RT
4" Solid White Line
1940 FT Sta. 693+30 12' LT
to Sta. 703+00 12' LT
1940 FT Sta. 693+30 12' RT
to Sta. 703+00 12' RT

NOTE:
All Ty. 1R Delineators shall be White.

All Ty. 4R Delineators Shall be Yellow.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_SIGN_004
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

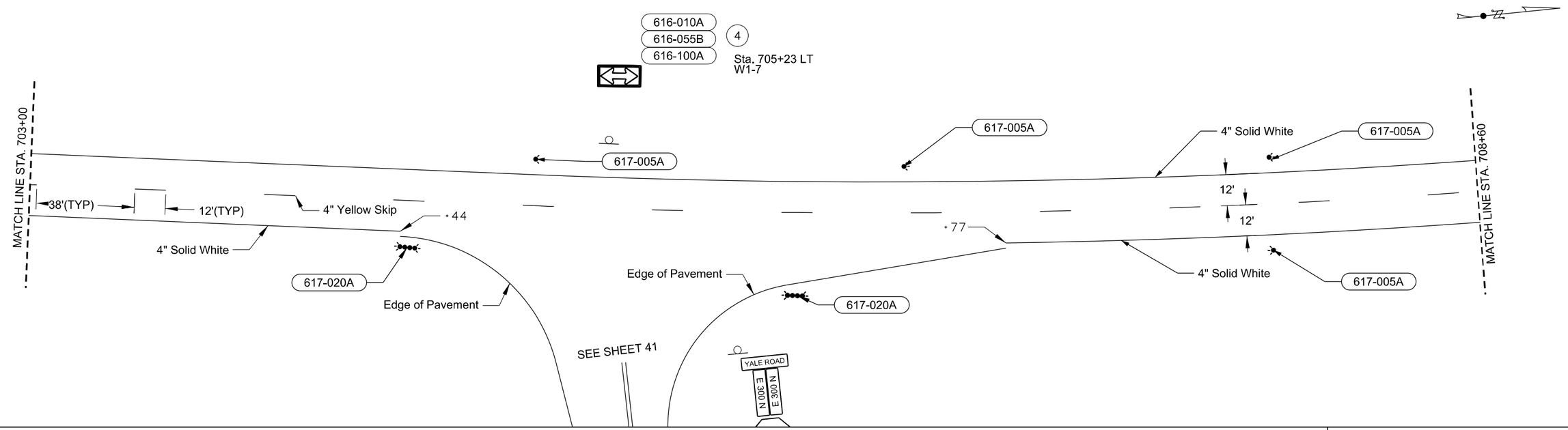
PROJECT NO.
A019(637)

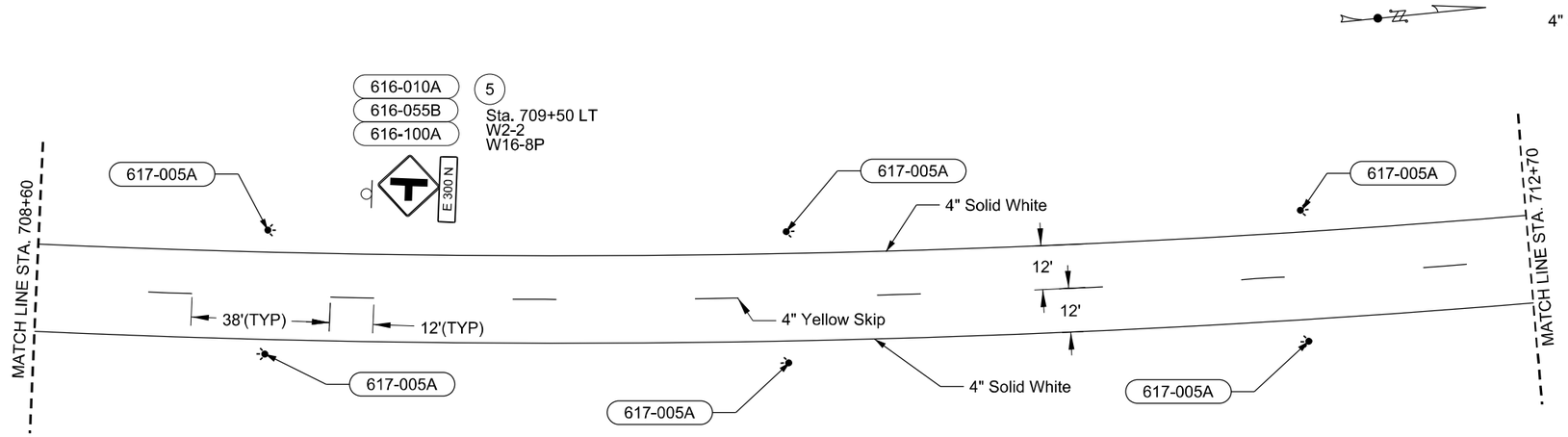
SIGN & PAVEMENT MARKINGS PLAN
STC-2837, YALE RD STG 4
STA 693+30 TO STA 703+00

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 37 OF 46

PROFESSIONAL ENGINEER LICENSED
Benjamin A. Bingham
19331
11/26/2025
STATE OF IDAHO
BENJAMIN A. BINGHAM





630-025A LONGITUDINAL PAVEMENT MARKING - WATERBORNE

4" Broken Yellow Line

466	FT	Sta. 703+00 0' RT	
	to	Sta. 712+70 0' RT	

4" Solid White Line

1940	FT	Sta. 703+00 12' LT	
	to	Sta. 712+70 12' LT	
288	FT	Sta. 703+00 12' RT	
	to	Sta. 704+44 12' RT	
1186	FT	Sta. 706+77 12' RT	
	to	Sta. 712+70 12' RT	

616-010A SIGN TYPE B-1

8	SF	Sta. 705+23 LT
10.3	SF	Sta. 709+50 LT

616-055B WOOD SIGN POST TYPE D-2

14.0	FT	Sta. 705+23 LT
16.6	FT	Sta. 709+50 LT

616-100A SIGN BRACES

19.4	LB	Sta. 705+23 LT
12	LB	Sta. 709+50 LT

617-005A DELINEATOR TYPE 1

10 EACH

617-020A DELINEATOR TYPE 4

2 EACH

DELINEATOR TABLE _

TYPE STATION	1R LT.	1R RT.
704+95	1	
706+38	1	
707+80	1	1
709+23	1	1
710+66	1	1
712+08	1	1

TYPE STATION	4R LT.	4R RT.
704+47		1
705+96		1

NOTE:

All Ty. 1R Delineators shall be White.

All Ty. 4R Delineators Shall be Yellow.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME 19637_SIGN_005

DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

CIVIL SCIENCE

PROJECT NO.

A019(637)

SIGN & PAVEMENT MARKINGS PLAN

STC-2837, YALE RD STG 4
STA 703+00 TO STA 712+70

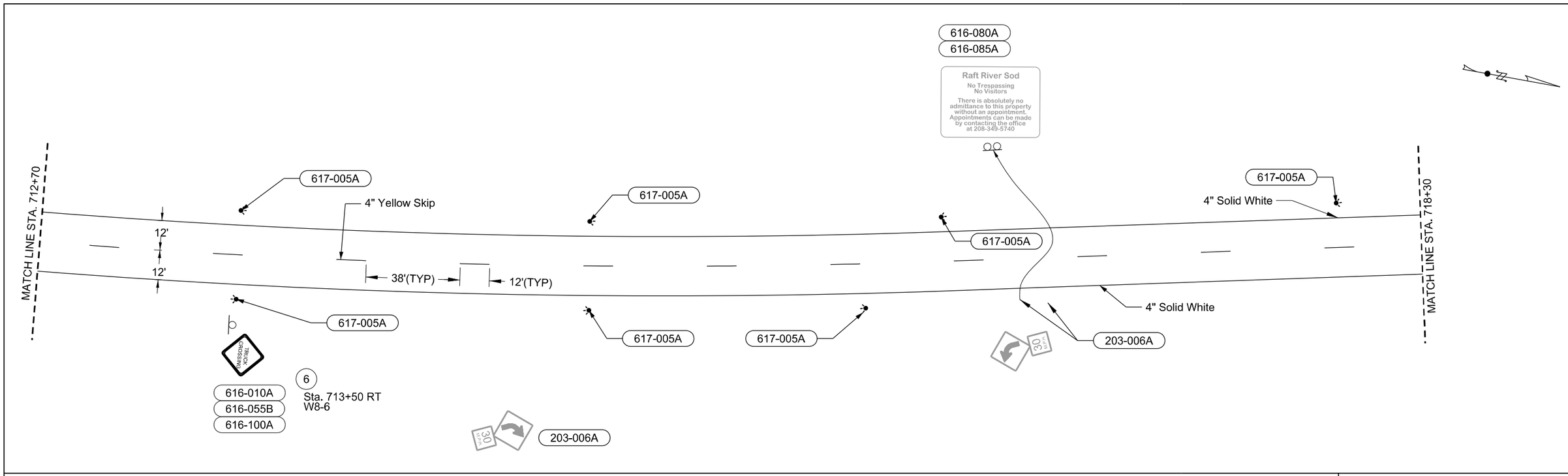
English

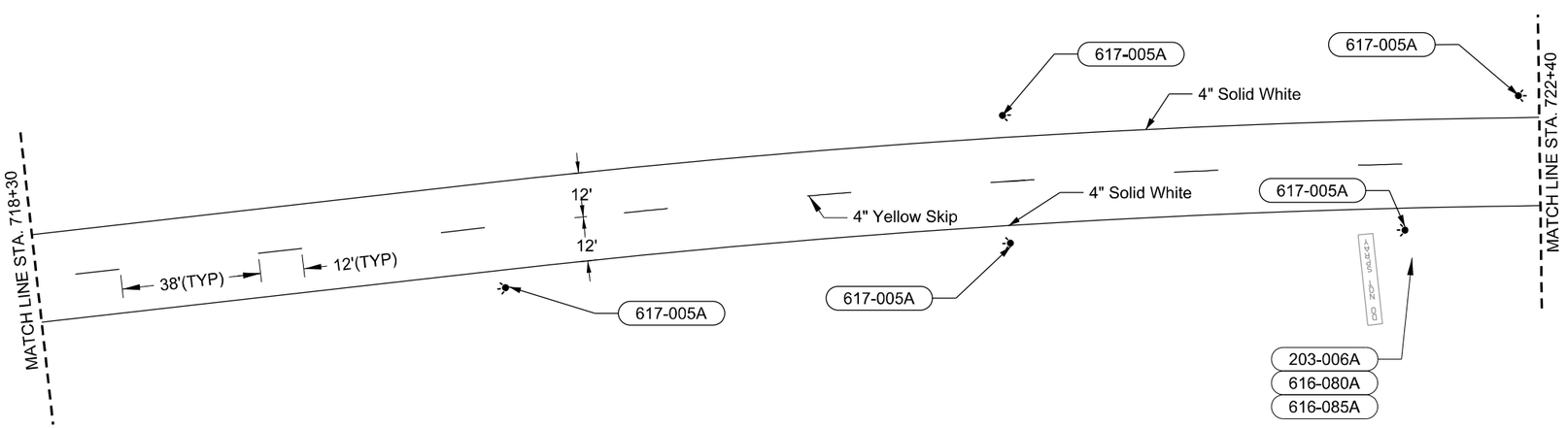
COUNTY CASSIA

KEY NUMBER 19637

SHEET 38 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM





630-025A LONGITUDINAL PAVEMENT MARKING - WATERBORNE

4" Broken Yellow Line

466	FT	Sta. 712+70 0' RT	
	to	Sta. 722+40 0' RT	

4" Solid White Line

1940	FT	Sta. 712+70 12' LT	
	to	Sta. 722+40 12' LT	
1940	FT	Sta. 712+70 12' RT	
	to	Sta. 722+40 12' RT	

203-006A REMOVAL OF SIGN

1	EACH	Sta. 714+62 RT
1	EACH	Sta. 716+66 RT
1	EACH	Sta. 716+78 RT
1	EACH	Sta. 722+05 RT

616-010A SIGN TYPE B-1

9	SF	Sta. 713+50 RT

616-055B WOOD SIGN POST TYPE D-2

17.1	FT	Sta. 713+50 RT

616-080A REINSTALL SIGN FACE

1	EACH	Sta. 716+57 LT
1	EACH	Sta. 722+05 RT

616-085A REINSTALL SIGN POST

2	EACH	Sta. 716+57 LT
1	EACH	Sta. 722+05 RT

616-100A SIGN BRACES

12	LB	Sta. 713+50 RT

617-005A DELINEATOR TYPE 1

12	EACH

DELINEATOR TABLE _

TYPE STATION	1R LT.	1R RT.
713+51	1	1
714+93	1	1
716+04		1
716+36	1	
717+96	1	
719+56		1
720+95	1	1
722+34	1	1

NOTE:

All Ty. 1R Delineators shall be White.

All Ty. 4R Delineators Shall be Yellow.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED R. RAMSEY	
DETAILED B. BINGHAM	CADD FILE NAME 19637_SIGN_006
DRAWING CHECKED R. RAMSEY	DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.	SIGN & PAVEMENT MARKINGS PLAN
A019(637)	STC-2837, YALE RD STG 4 STA 712+70 TO STA 722+40

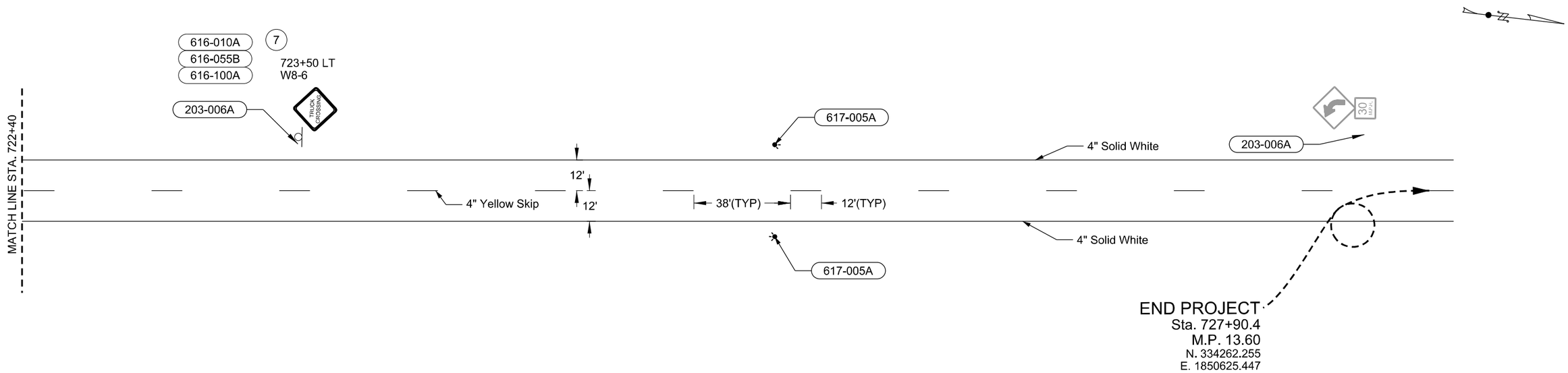
English

COUNTY CASSIA

KEY NUMBER 19637

SHEET 39 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



NOTE:

All Ty. 1R Delineators shall be White.

All Ty. 4R Delineators Shall be Yellow.

DELINEATOR TABLE _

TYPE	1R	1R
STATION	LT.	RT.
725+34	1	1

(203-006A) REMOVAL OF SIGN

1 EACH Sta. 723+48 LT
1 EACH Sta. 727+64 LT

(616-010A) SIGN TYPE B-1

9 SF Sta. 723+50 LT

(616-055B) WOOD SIGN POST TYPE D-2

17.1 FT Sta. 723+50 LT

(616-100A) SIGN BRACES

12 LB Sta. 723+50 LT

(617-005A) DELINEATOR TYPE 1

2 EACH

(630-025A) LONGITUDINAL PAVEMENT MARKING - WATERBORNE

4" Broken Yellow Line
269 FT Sta. 722+40 0' RT
to Sta. 728+00 0' RT

4" Solid White Line
1120 FT Sta. 722+40 12' LT
to Sta. 728+00 12' LT
1120 FT Sta. 722+40 12' RT
to Sta. 728+00 12' RT

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME 19637_SIGN_007

DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

SIGN & PAVEMENT MARKINGS PLAN
STC-2837, YALE RD STG 4
STA 722+40 TO STA 728+00

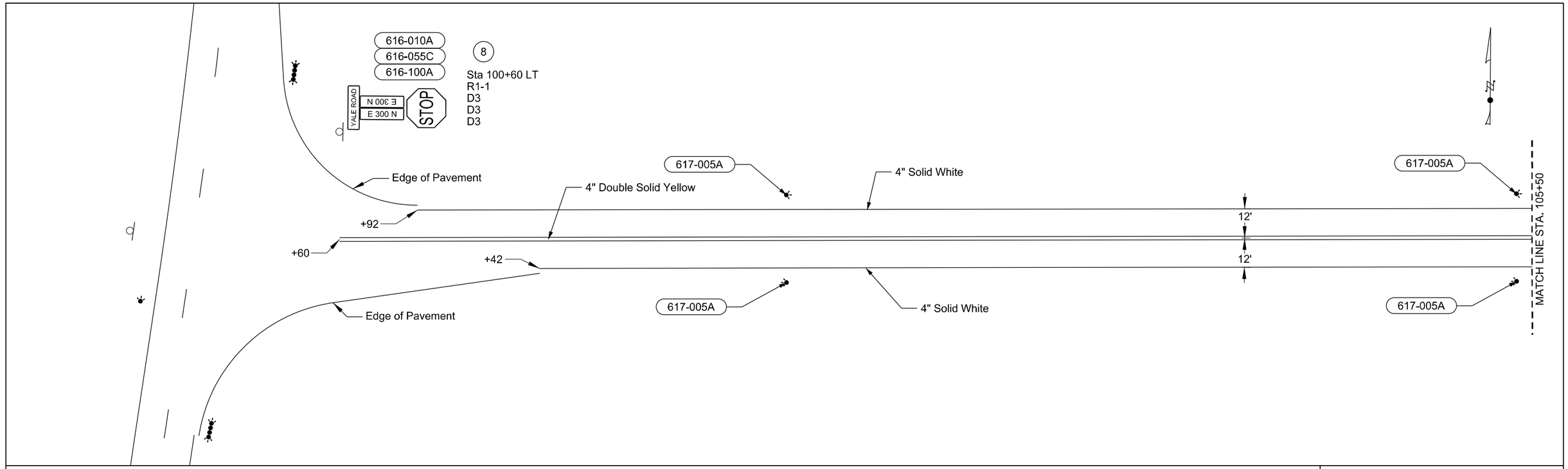
English

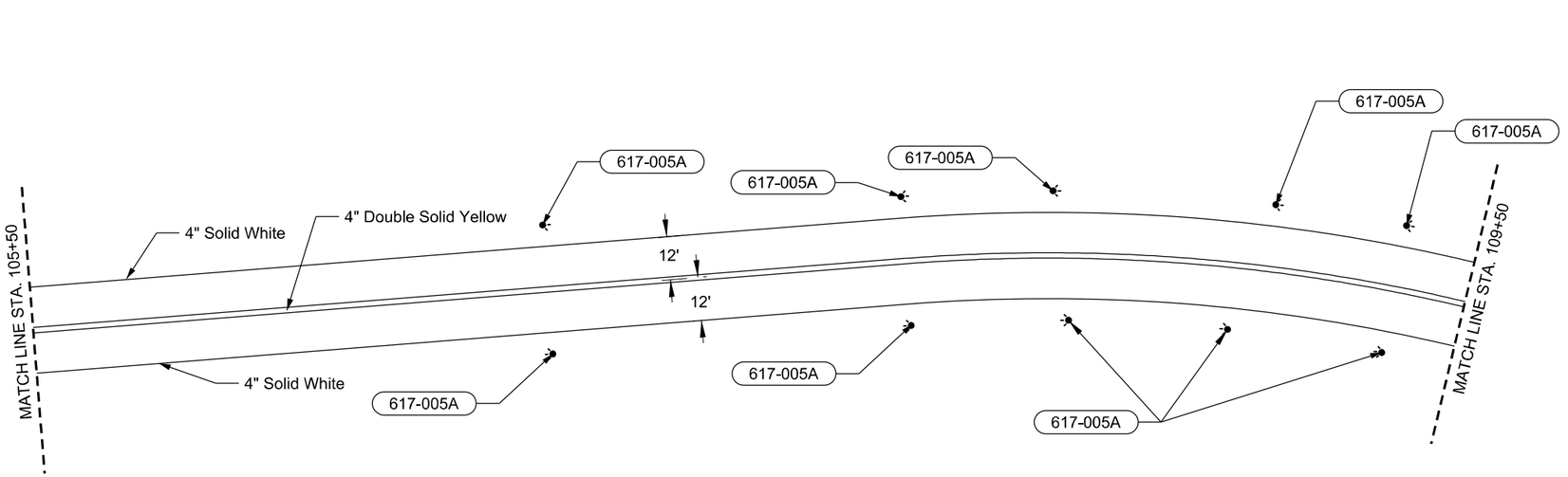
COUNTY CASSIA

KEY NUMBER 19637

SHEET 40 OF 46

PROFESSIONAL ENGINEER LICENSED
Benjamin A. Bingham
19331
11/26/2025
STATE OF IDAHO
BENJAMIN A. BINGHAM





DELINEATOR TABLE _		
TYPE	1R	1R
STATION	LT.	RT.
102+44	1	1
105+44	1	1
106+94	1	1
107+94	1	1
108+34		1
108+39	1	
108+85	1	
108+95		1
109+30	1	1

616-010A SIGN TYPE B-1

15 SF Sta. 100+60 LT

616-055C WOOD SIGN POST TYPE D-3

19.5 FT Sta. 100+60 LT

616-100A SIGN BRACES

14.8 LB Sta. 100+60 LT

617-005A DELINEATOR TYPE 1

14 EACH

630-025A LONGITUDINAL PAVEMENT MARKING - WATERBORNE

4" Double Solid Yellow Line

3560 FT Sta. 100+60 0' RT to Sta. 109+50 0' RT

4" Solid White Line

1716 FT Sta. 100+92 12' LT to Sta. 109+50 12' LT

1616 FT Sta. 101+42 12' RT to Sta. 109+50 12' RT

NOTE:

All Ty. 1R Delineators shall be White.

All Ty. 4R Delineators Shall be Yellow.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME 19637_SIGN_008

DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

SIGN & PAVEMENT MARKINGS PLAN
STC-2837, YALE RD STG 4
STA 100+00 TO STA 109+50

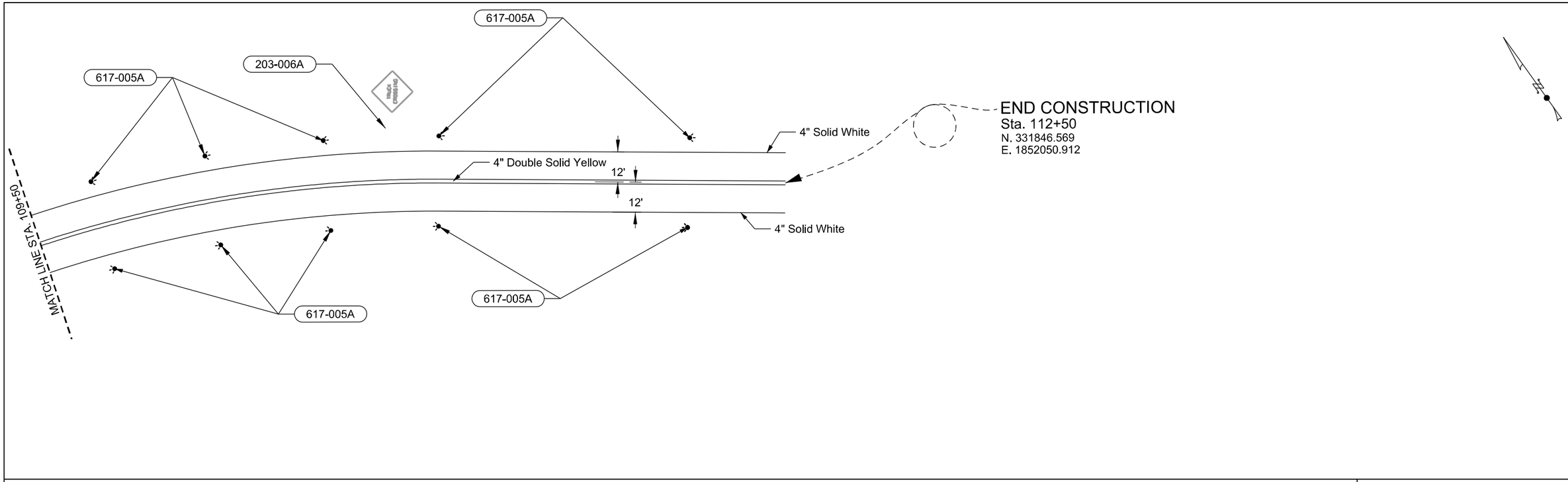
English

COUNTY CASSIA

KEY NUMBER 19637

SHEET 41 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



203-006A REMOVAL OF SIGN

1 EACH Sta. 110+91 LT

617-005A DELINEATOR TYPE 1

10 EACH

630-025A LONGITUDINAL PAVEMENT MARKING - WATERBORNE

4" Double Solid Yellow Line
1200 FT Sta. 109+50 0' RT
to Sta. 112+50 0' RT

4" Solid White Line
600 FT Sta. 109+50 12' LT
to Sta. 112+50 12' LT
600 FT Sta. 109+50 12' RT
to Sta. 112+50 12' RT

DELINEATOR TABLE

TYPE STATION	1R LT.	1R RT.
109+76	1	1
110+21	1	1
110+67	1	1
111+12	1	1
112+12	1	1

NOTE:

All Ty. 1R Delineators shall be White.

All Ty. 4R Delineators Shall be Yellow.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_SIGN_009
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

SIGN & PAVEMENT MARKINGS PLAN
STC-2837, YALE RD STG 4
STA 109+50 TO STA 112+50

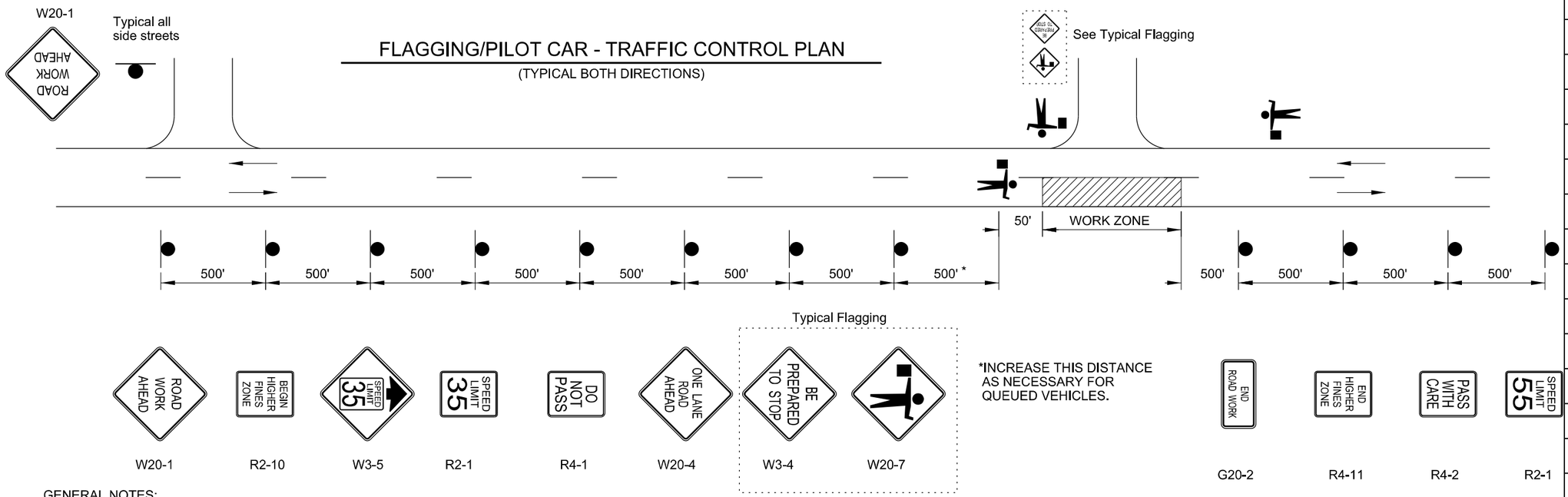
English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 42 OF 46

PROFESSIONAL ENGINEER LICENSED
Benjamin A. Bingham
19331
11/26/2025
STATE OF IDAHO
BENJAMIN A. BINGHAM

FLAGGING/PILOT CAR - TRAFFIC CONTROL PLAN

(TYPICAL BOTH DIRECTIONS)



*INCREASE THIS DISTANCE AS NECESSARY FOR QUEUED VEHICLES.

GENERAL NOTES:

Signing and flagging is for one direction only. The same signing sequence shall be required for both directions.

The use of adhesive type tapes and/or plastic sheeting will not be allowed when covering traffic control signs.

Flashers are required at night if flags are used in the daytime.

W8-17 Sign shall be used when shoulder drop off exceeds 3" and is within a lateral distance of 10'.

All construction signing shall meet or exceed the requirements of the MUTCD, as adopted by the State.

All existing signs in conflict with temporary signs, shall be covered while construction signing is in effect.

If the traffic control plan as shown does not conform to the contractor's method of operation, the contractor shall submit new traffic control plans for approval.

All distances between signs are minimums and may require spacing adjustments in the field depending on prevailing conditions.

All construction signing and tubular markers shall be in place prior to diversion of traffic.

All taper lengths shall meet the requirements of the MUTCD. Longitudinal buffer zones shall be provided behind lane closures where adequate space exists.

Additional signing may be required as directed by the Engineer.

When construction signs are not applicable they shall be either covered or removed.

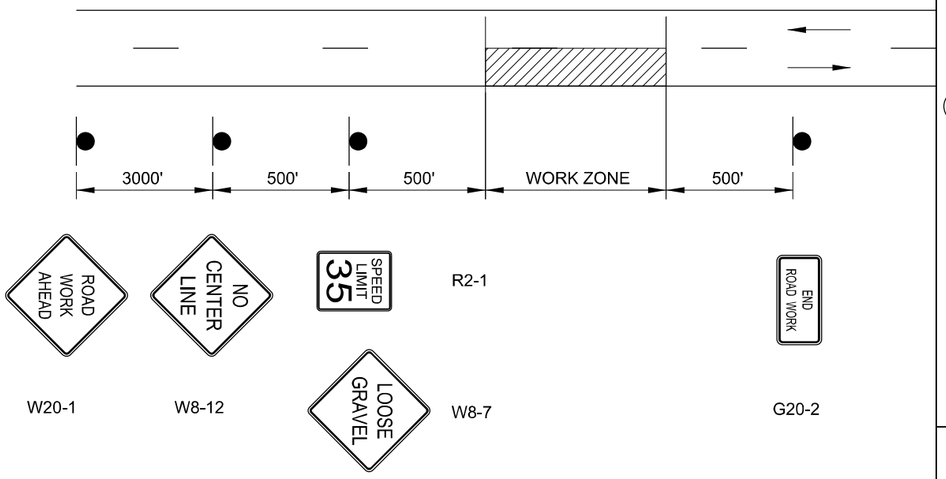
The contractor shall maintain local traffic through the construction area.

The roadway shall be opened up to two-way traffic at the end of each work day.

ADDITIONAL SIGNS - PLACED AS DIRECTED (IF REQUIRED)

TWO LANE OPERATION DETAIL
(WEEKEND AND NON-WORKING TIMES)

(TYPICAL BOTH DIRECTIONS)



TEMPORARY TRAFFIC CONTROL SIGNS				
SIGN	SIZE IN	SF	QTY	TOTAL
R2-1	36x48	12	6	72
R2-10	36x48	12	3	36
R4-11	36x48	12	3	36
R4-1	36x48	12	3	36
R4-2	36x48	12	3	36
G20-2	48x24	8	3	24
G20-4	36x18	4.5	1	4.5
W3-4	48x48	16	3	48
W3-5	48x48	16	3	48
W8-1	48x48	16	4	64
W8-7	48x48	16	3	48
W8-12	48x48	16	3	48
W8-17	48x48	16	3	48
W20-1	48x48	16	3	48
W20-4	48x48	16	3	48
W20-7	48x48	16	3	48
			Total	693
			15% Contingency	104
			Grand Total	797

626-010A TEMPORARY TRAFFIC CONTROL SIGNS

797 SF

Legend

- Direction of travel
- Flagger
- Sign

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED R. RAMSEY
DETAILED B. BINGHAM
DRAWING CHECKED R. RAMSEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_TRCP_001
DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

PROJECT NO.
A019(637)

TRAFFIC CONTROL PLAN
STC-2837, YALE RD STG 4

English

COUNTY CASSIA
KEY NUMBER 19637
SHEET 43 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM

DESIGN NOTES

DESIGN SPECIFICATIONS

"AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS" 10th EDITION AND 12/2024 ITD BRIDGE DESIGN LRFD MANUAL.

DESIGN LOADS

PERMANENT LOADS

DC	UNIT	0.150 kcf
DW	FUTURE SURFACING	0.070 ksf
EV	UNIT WEIGHT OF SOIL	0.125 kcf
	FILL DEPTH	3.3 ft
EH	ACTIVE PRESSURE	** kcf
	AT REST PRESSURE	** kcf
	SOIL-STRUCTURE INTERACTION FACTOR (F_e OR F_t)	**
ES	EARTH LOAD SURCHARGE	** ft

TRANSIENT LOADS

LL	HL-93	
IM	DYNAMIC ALLOWANCE APPLIED TO TRUCK & TANDEM	
LS	LIVE LOAD SURCHARGE AT ABUTMENT	** feet
	LIVE LOAD SURCHARGE AT WINGWALL	0.00 feet

** TO BE DETERMINED BY SUPPLIER OF PRECAST CONCRETE BOX CULVERT. SEE THE PHASE IV FOUNDATION REPORT FOR THE YALE ROAD BOX CULVERT AND SHOW IN THE SUBMITTED DESIGN CALCULATIONS.

GENERAL NOTES

MATERIALS, CONSTRUCTION AND WORKMANSHIP IN ACCORDANCE WITH THE STATE OF IDAHO TRANSPORTATION DEPARTMENT, "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 2023 EDITION, 2024 SUPPLEMENTAL SPECIFICATIONS, THE PROJECT PLANS, AND SPECIAL PROVISIONS.

MATERIAL

CONCRETE: BOX CULVERT AND WINGS - CLASS 40A ..... f'c = 4.00 ksi
METAL REINFORCEMENT: AASHTO M31, GRADE 60 TYPE S ..... fy = 60.00ksi

PLAN DIMENSIONS AND ELEVATIONS

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.
DIMENSIONS TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS NOTED OTHERWISE.
PROVIDE 2" CONCRETE COVER MEASURED FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING BAR, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
PROVIDE REINFORCING STEEL SPLICE LENGTHS IN ACCORDANCE WITH AASHTO SPECIFICATIONS.

CONSTRUCTION

PROVIDE CONSTRUCTION JOINTS AT THE LOCATIONS SHOWN ON THE PLANS OR AS APPROVED.
APPLY CONCRETE WATERPROOF SYSTEM TYPE D TO THE TOP SLAB.
DO NOT EXCEED A DIFFERENCE OF 2 FEET IN ELEVATION OF THE BACKFILL MATERIAL ON BOTH SIDES OF THE STRUCTURE DURING BACKFILL OPERATIONS.
SET THE ROLLER IN THE STATIC MODE FOR COMPACTING THE ASPHALT WEARING SURFACE OVER THE CULVERT WHEN THE DEPTH OF FILL IS LESS THAN 3'.
ELEVATIONS BASED ON NAVD 88 DATUM.

INCIDENTAL ITEMS

WORK NECESSARY TO FULFILL THE CONTRACT THAT IS NOT MEASURED OR PAID FOR SEPARATELY.

FOOTING DESIGN LOADS

STRENGTH LIMIT STATE - BEARING

NOMINAL BEARING RESISTANCE q_n= ** ksf
RESISTANCE FACTOR Φ_b= **
FACTORED BEARING RESISTANCE $q_R = q_n \Phi_b$= ** ksf

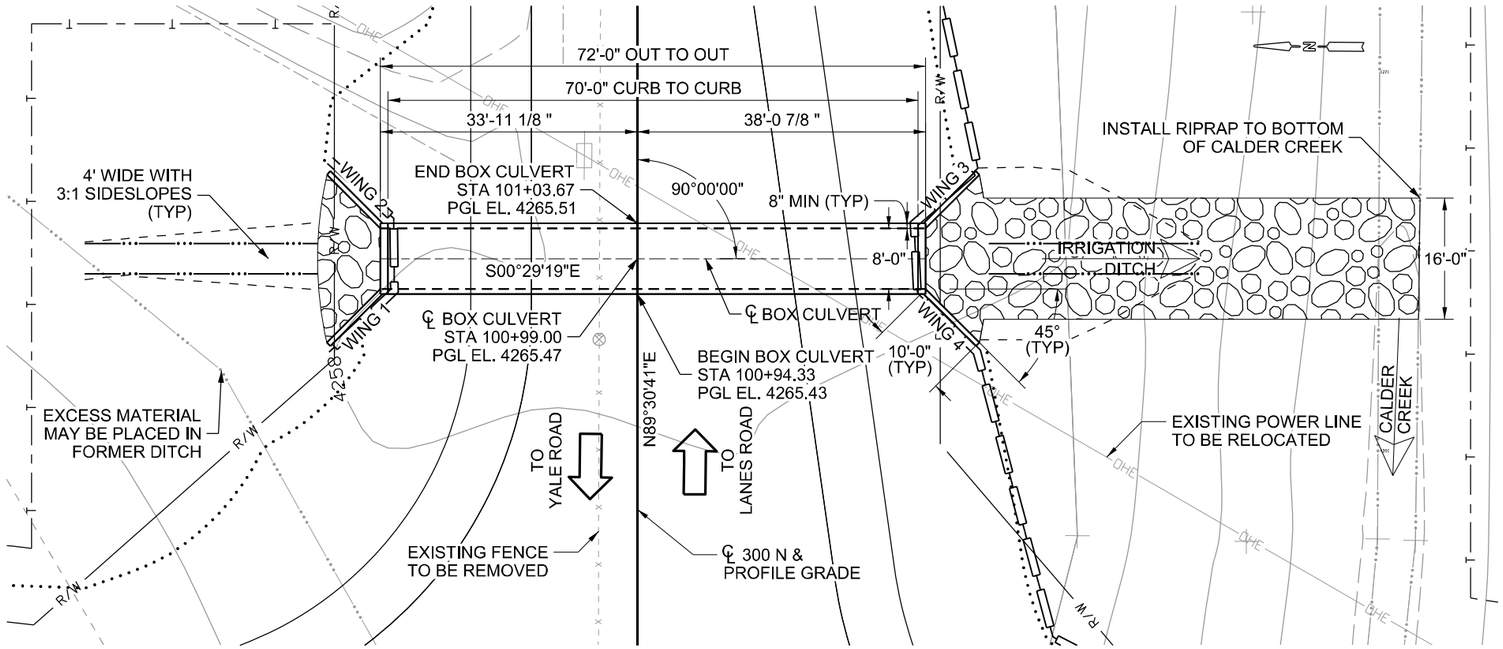
SERVICE LIMIT STATE

PRESUMPTIVE BEARING CAPACITY q_p= ** ksf
BASED UPON FOOTING SETTLEMENT = ** inches OR LESS
RESISTANCE FACTOR Φ = 1.0
FACTORED PRESUMPTIVE BEARING RESISTANCE Φq_p = ** ksf

REVISIONS						
NO.	DATE	BY	DESCRIPTION	DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
				DESIGN CHECKED G. ELLIS		
				DETAILED B. BINGHAM	CADD FILE NAME 19637_CNOT_001	
				DRAWING CHECKED G. ELLIS	DRAWING DATE: 26-NOV-2025	CIVIL SCIENCE

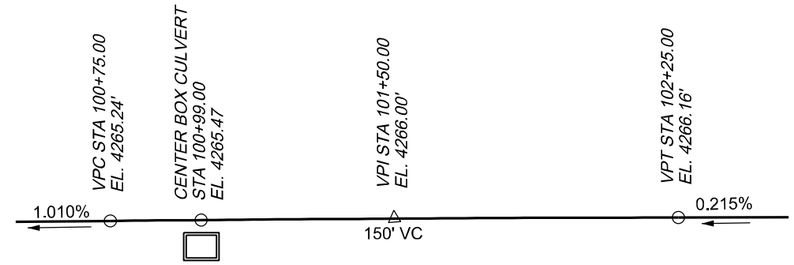
PROJECT NO.	CULVERT NOTES		
A019(637)	STC-2837, YALE RD STG 4	English	COUNTY CASSIA KEY NUMBER 19637 SHEET 44 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



PLAN

SCALE: 1" = 20'

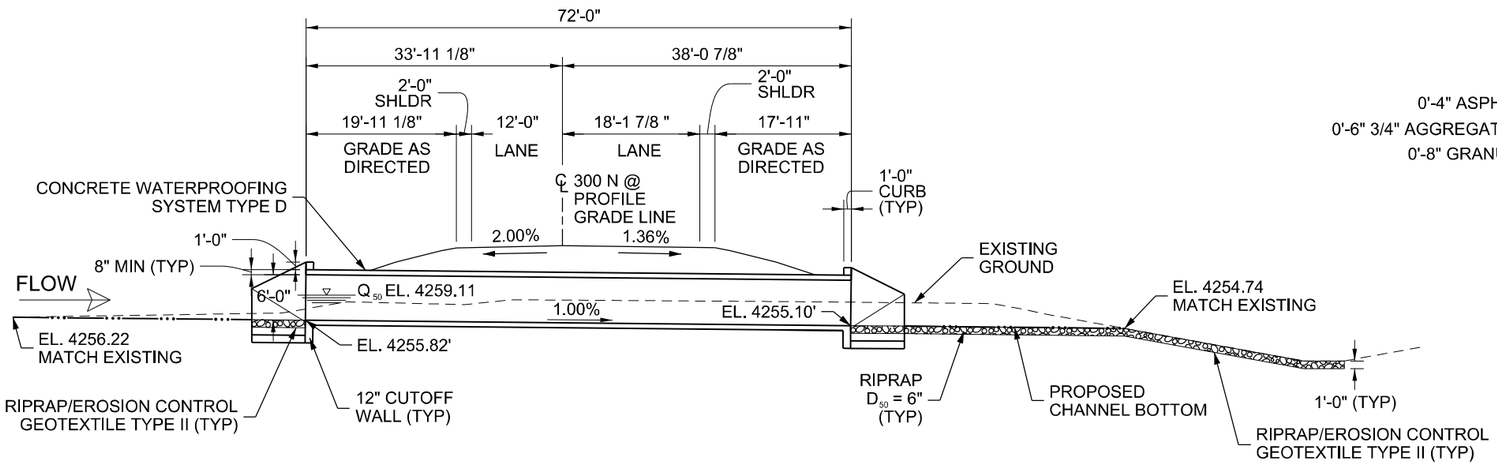


300 N PROFILE GRADE

N.T.S.

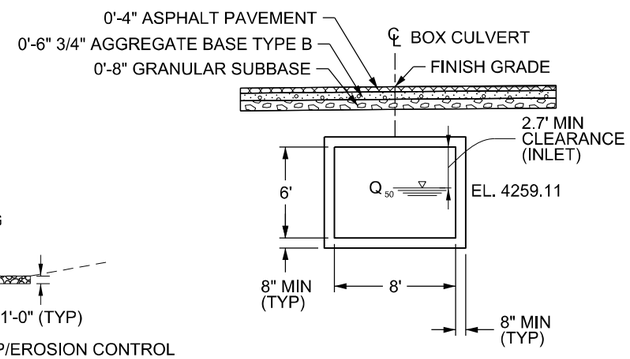
HYDRAULIC DATA

FLOOD	DISCHARGE	H.W. ELEVATION	VELOCITY
Q_{50}	169 CFS	4259.11 FT	6.09 FPS
Q_{100}	230 CFS	4259.29 FT	8.29 FPS



ELEVATION

SCALE: 1" = 20'



TYPICAL SECTION

SCALE: 1" = 10'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED R. RAMSEY	
DETAILED Z. BYINGTON	CADD FILE NAME 19637_CVSL_001
DRAWING CHECKED B. BINGHAM	DRAWING DATE: 26-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

CIVIL SCIENCE

PROJECT NO.	CULVERT SITUATION & LAYOUT
A019(637)	STC-2837, YALE RD STG 4

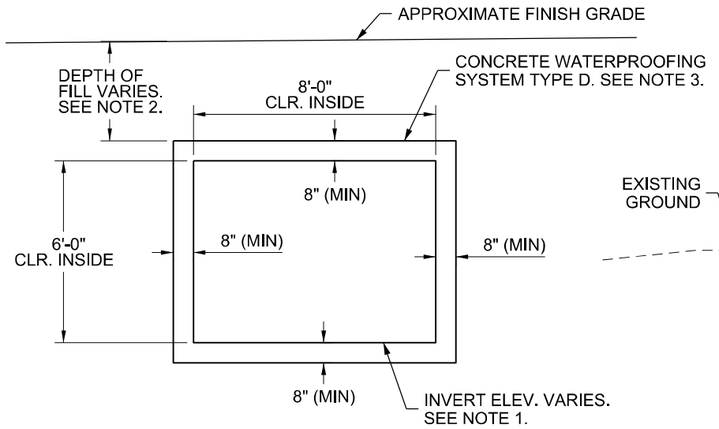
English

COUNTY CASSIA

KEY NUMBER 19637

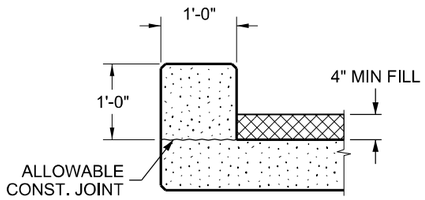
SHEET 45 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



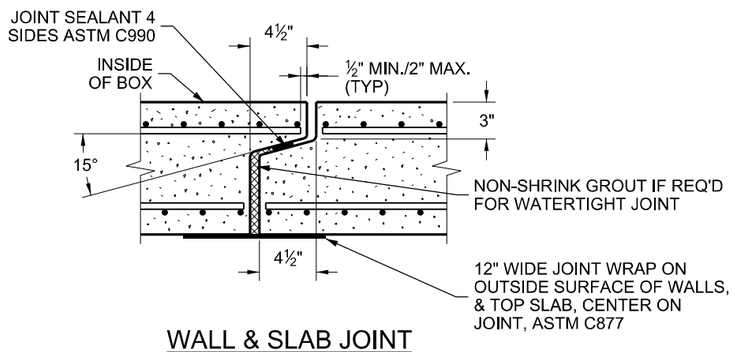
TYPICAL PRECAST CROSS-SECTION

SCALE: 1" = 5'-0"



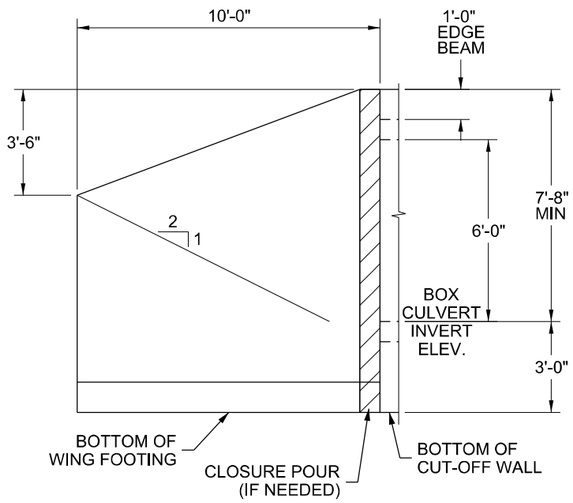
EDGE BEAM DETAILS

SCALE: ½" = 1'-0"



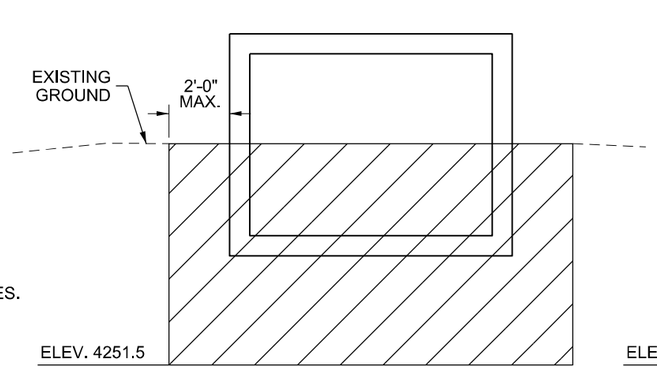
WALL & SLAB JOINT

N.T.S.

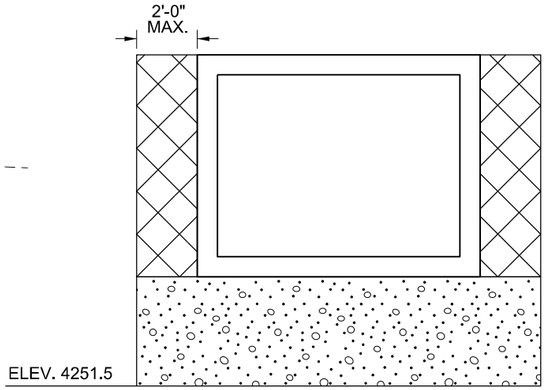


WING WALL DETAILS

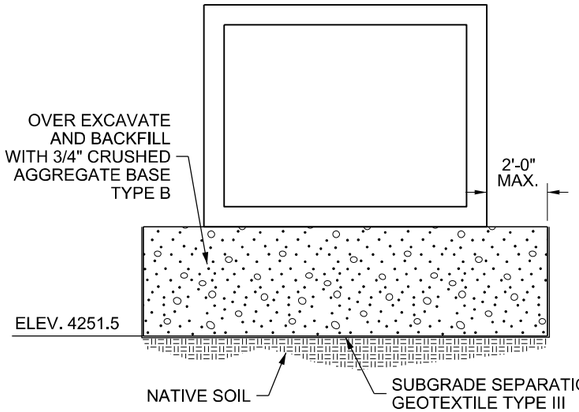
SCALE: 1" = 5'-0"



STRUCTURAL EXCAVATION



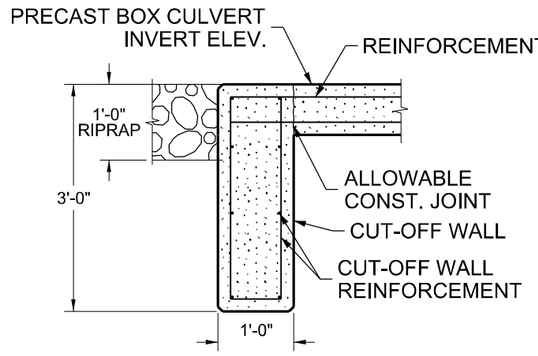
COMPACTING BACKFILL (GRANULAR SUBBASE)



LEVELING PAD

NOTES:

1. SEE SITUATION AND LAYOUT SHEET FOR CHANNEL INVERT AND WATER SURFACE ELEVATIONS AT INLET AND OUTLET OF CULVERT.
2. SEE SITUATION AND LAYOUT SHEET FOR ROADWAY HORIZONTAL ALIGNMENT AND PROFILE GRADE. COMPUTE DEPTH OF FILL FOR THE SELECTED PROPRIETARY PRECAST SYSTEM.
3. APPLY WATERPROOFING SYSTEM, TYPE D TO TOP SLAB FROM FACE OF CURB TO FACE OF CURB AND 3 FEET DOWN THE SIDES OF THE CULVERT.
4. PROVIDE A PROPRIETARY PRECAST SYSTEM SELECTED FROM TYPICAL SECTION SHOWN OR APPROVED EQUAL AND INCLUDE DETAILS AS SHOWN BELOW OR APPROVED EQUAL.
5. PROVIDE EITHER PRECAST OR CAST-IN-PLACE CUTOFF WALLS, EDGE BEAMS, AND WINGWALLS.
6. PROVIDE DIMENSIONAL TOLERANCE IN ACCORDANCE WITH ASTM C1577 SECTION 12.
7. ALL ITEMS NOT EXPLICITLY LISTED AS A SEPARATE BID ITEM WILL BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS.

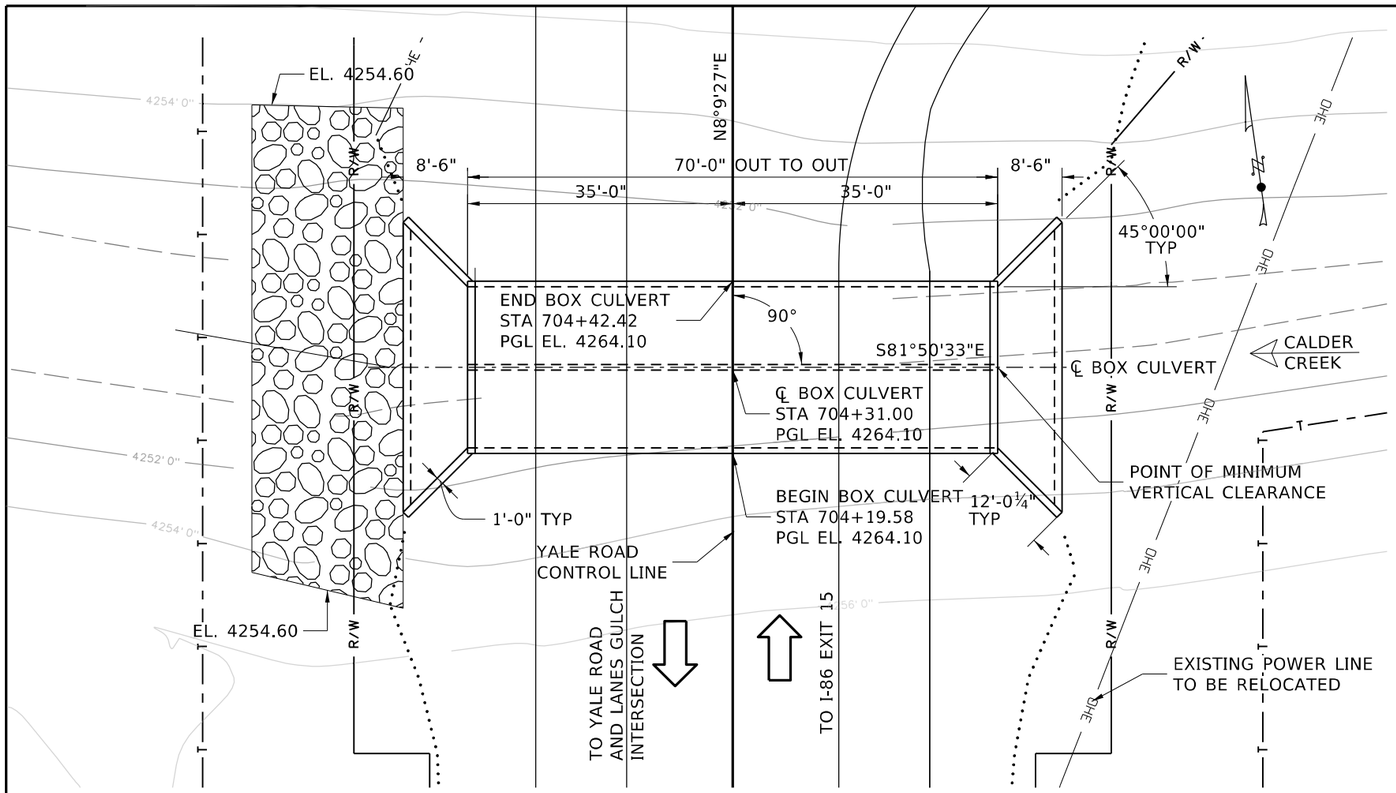


CUTOFF WALL DETAILS

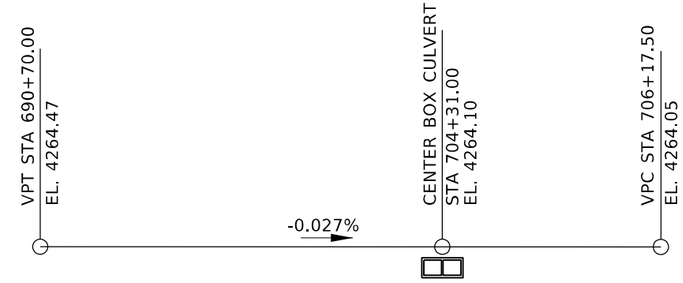
SCALE: ½" = 1'-0"

REVISIONS				DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	CULVERT DETAILS	English
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED G. ELLIS		YOUR Safety→YOUR Mobility→YOUR Economic Opportunity	A019(637)	STC-2837, YALE RD STG 4	COUNTY CASSIA
				DETAILED B. BINGHAM	CADD FILE NAME 19637_CDET_001	CIVIL SCIENCE			KEY NUMBER 19637
				DRAWING CHECKED G. ELLIS	DRAWING DATE: 26-NOV-2025				SHEET 46 OF 46

PROFESSIONAL ENGINEER LICENSED 19331 11/26/2025 STATE OF IDAHO BENJAMIN A. BINGHAM



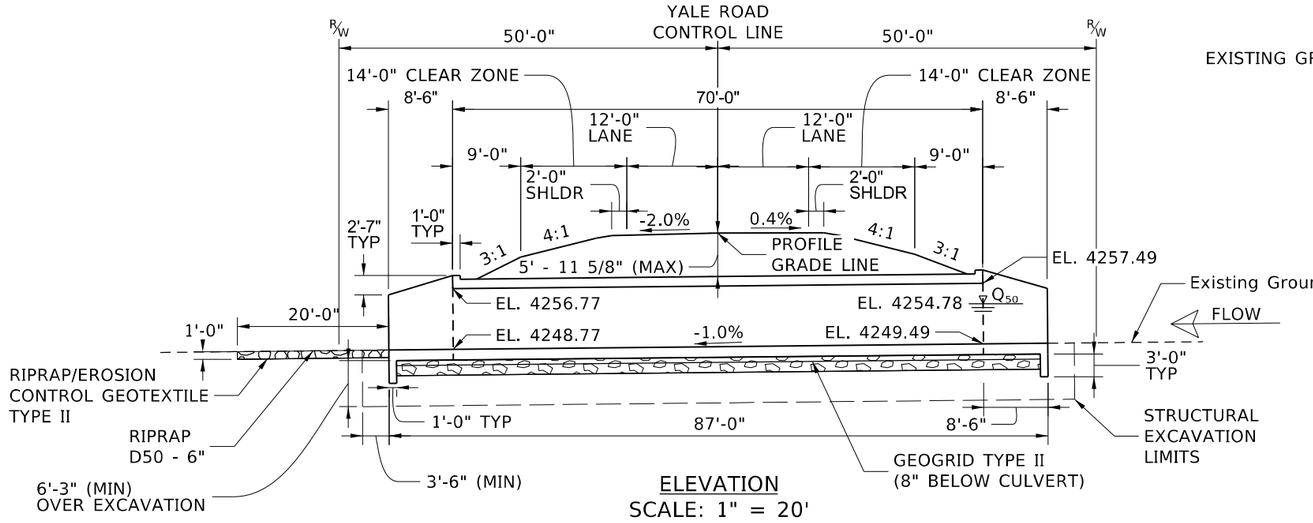
PLAN VIEW
SCALE: 1" = 20'



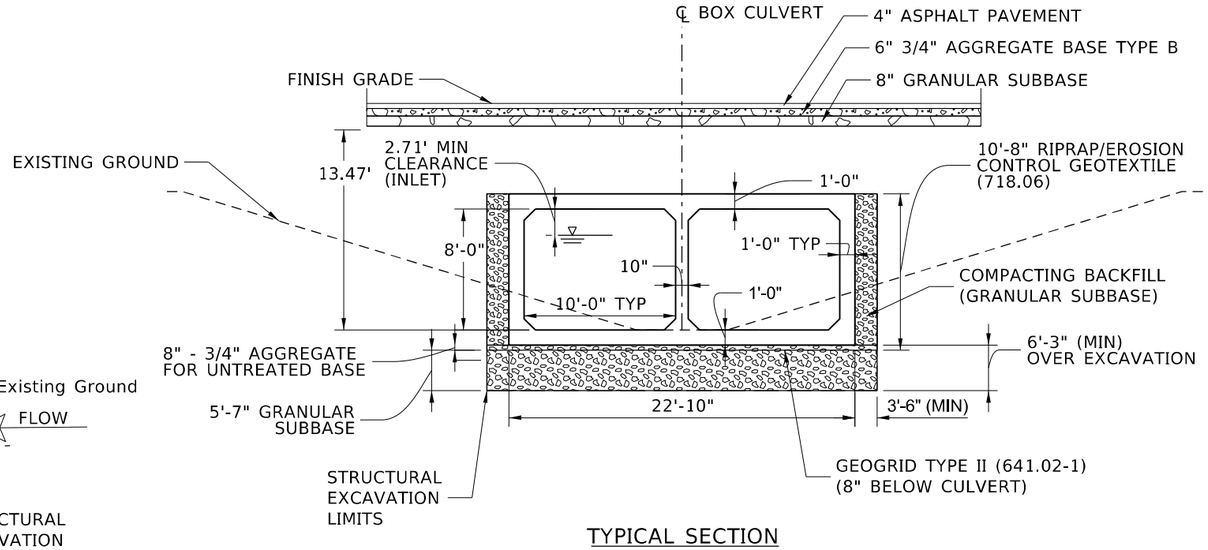
YALE ROAD PROFILE GRADE
N.T.S.

HYDRAULIC DATA

FLOOD	DISCHARGE	H.W. ELEVATION	VELOCITY
Design (Q_{50})	701 cfs	4254.78 ft	5.91 fps
Base (Q_{100})	873 cfs	4255.68 ft	5.97 fps
Scour (Q_{SC})	1350 cfs	4257.95 ft	5.98 fps



ELEVATION
SCALE: 1" = 20'



TYPICAL SECTION
SCALE: 1" = 10'

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			

DESIGNED C. STEELE
DESIGN CHECKED G. ELLIS
DETAILED Z. BYINGTON
DWG. CHECKED G. ELLIS
CORRECTIONS Z. BYINGTON

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
DX\prjXXXXX\Proj\Dev\Bridge\Plans\19637_BDTL_001.DGN
DRAWING DATE: 25-NOV-2025

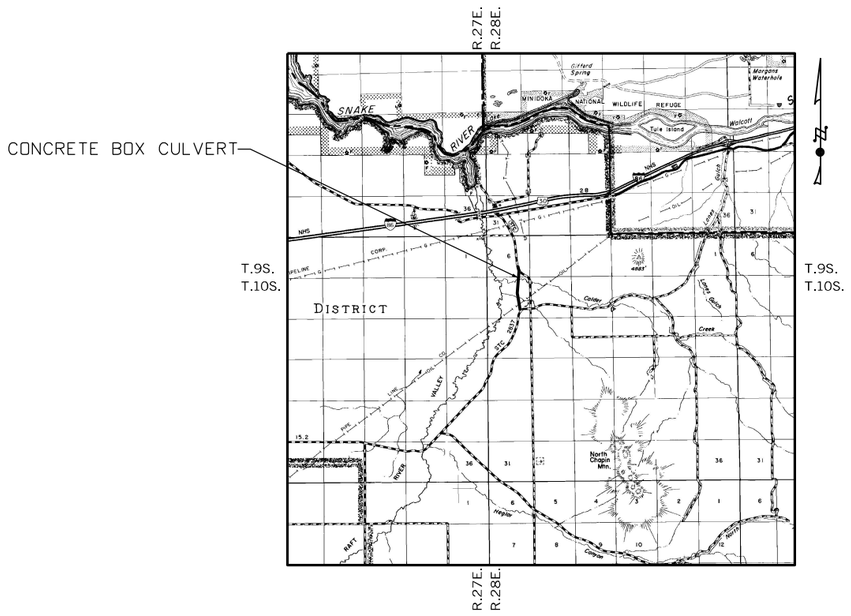
IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

ENGLISH
PROJECT NO.
A019(637)

SITUATION AND LAYOUT
CONCRETE BOX CULVERT
YALE ROAD OVER CALDER CREEK
STA. 704+31

BRIDGE PLANS
BRIDGE KEY NO. 34465
COUNTY CASSIA
KEY NO. 19637
BRIDGE DWG. NO. 18047
SHEET 1 OF 9

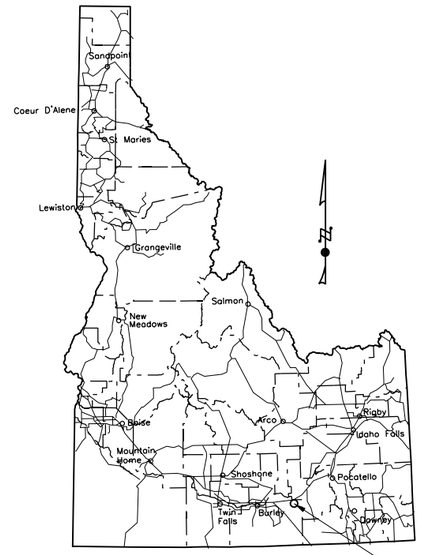
PROFESSIONAL ENGINEER REGISTERED 10674 STATE OF IDAHO GARY ELLIS
11/29/25



VICINITY MAP SCALE

1 ½ 0 1 2

MILES



A019(637)
YALE ROAD STAGE 4
M.P. 12.40 TO M.P. 13.60
SEGMENT CODE 002311

INDEX OF SHEETS

SITUATION AND LAYOUT 1
SHEET INDEX, QUANTITIES, & VICINITY MAP 2
DESIGN AND GENERAL NOTES 3
FOUNDATION INVESTIGATION 4
BACKFILL AND EXCAVATION DETAILS 5
BOX LAYOUT AND NOTES 6
BOX CULVERT REINFORCEMENT DETAILS 7
WINGWALL DETAILS 8
METAL REINFORCEMENT 9

ONE DIRECTIONAL TRAFFIC DATA

CONSTRUCTION YEAR 2024
AADT 355
CAADT 146
41%
FUTURE YEAR 2044
AADT 428
CAADT 175
41%

QUANTITIES

210-005A STRUCTURE EXCAVATION SCHEDULE NO. 1	894 CY
210-015A COMPACTING BACKFILL	1,293 CY
301-005A GRANULAR SUBBASE	1,628TON
303-022A 3/4"AGGREGATE TYPE B FOR BASE	146 TON
502-025A CONCRETE CLASS 40-A	230 CY
503-005A METAL REINFORCEMENT	33,774 LB
511-005A CONCRETE WATERPROOF SYSTEM (TYPE D)	209 SY
624-005A LOOSE RIPRAP	47.3 CY
640-010A RIPRAP/EROSION CONTROL GEOTEXTILE (TYPE II)	352 SY
641-005A BIAXIAL GEOGRID (TYPE II)	339 SY

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	ENGLISH	SHEET INDEX, QUANTITIES, & VICINITY MAP	BRIDGE PLANS	
NO.	DATE	BY	DESCRIPTION	C. STEELE		YOUR Safety→YOUR Mobility→YOUR Economic Opportunity			BRIDGE KEY NO. 34465	
				DESIGN CHECKED G. ELLIS	CADD FILE NAME DX\prj\XXXXX\Proj\Dev\Bridge\Plans 19637_BDTL_002.DGN		PROJECT NO. A019(637)	CONCRETE BOX CULVERT YALE ROAD OVER CALDER CREEK STA. 704+31	COUNTY CASSIA	KEY NO. 19637
				DETAILED J. BROWNING						
				DWG. CHECKED G. ELLIS					BRIDGE DWG. NO. 18047	SHEET 2 OF 9
				CORRECTIONS Z. BYINGTON	DRAWING DATE: 25-NOV-2025	CIVIL SCIENCE				

PROFESSIONAL ENGINEER REGISTERED 10674 STATE OF IDAHO GARY ELLIS 11/24/25

DESIGN NOTES

DESIGN SPECIFICATIONS

IN ACCORDANCE WITH "AASHTO LRFD BRIDGE DESIGN SPECIFICATION" 9th EDITION.

DESIGN PROCEDURES

THE FOLLOWING PROPRIETARY COMPUTER SOFTWARE PROGRAMS WERE USED TO FACILITATE THE STRUCTURAL ANALYSIS.

NAME	VERSION	RELEASE DATE
ERIKSSON CULVERT	V5	2020

DESIGN LOADS

PERMANENT LOADS WEARING SURFACE

DC	UNIT WEIGHT OF REINFORCED CONCRETE	0.150 KCF
DW	FUTURE WEARING SURFACE	0.070 KSF
EV	UNIT WEIGH OF SOIL	0.140 KCF
	FILL DEPTH	7.0 FT
EH	ACTIVE PRESSURE	0.034 KCF

TRANSIENT LOADS

LL	HL-93	
IM	DYNAMIC ALLOWANCE APPLIED TO TRUCK & TANDEM	
LS	LIVE LOAD SURCHARGE AT BOX CULVERT	2.00 FEET
	LIVE LOAD SURCHARGE AT WINGWALL	0.00 FEET

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS

MATERIALS, CONSTRUCTION AND WORKMANSHIP WILL BE IN ACCORDANCE WITH THE STATE OF IDAHO TRANSPORTATION DEPARTMENT, "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 2023 EDITION, AND 2024 SUPPLEMENTAL SPECIFICATIONS, THE PROJECT PLANS AND SPECIAL PROVISIONS.

MATERIAL

CONCRETE: BOX CULVERT AND WINGS CLASS 40A..... f'c = 4.00 KSI

METAL REINFORCEMENT : AASHTO M31, GRADE 60..... fy = 60.00 KSI

PLAN DIMENSIONS AND ELEVATIONS

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

ALL DIMENSIONS TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS NOTED OTHERWISE.

PROVIDE 2" CONCRETE COVER MEASURED FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING BAR, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

PROVIDE REINFORCING STEEL SPLICE LENGTHS IN ACCORDANCE WITH AASHTO SPECIFICATIONS.

CONSTRUCTION

CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT THE LOCATIONS SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER.

APPLY CONCRETE WATERPROOF SYSTEM TYPE D TO THE TOP SLAB AND 2 FEET DOWN THE SIDES.

DO NOT EXCEED A DIFFERENCE OF 2 FEET IN ELEVATION OF THE BACKFILL MATERIAL ON BOTH SIDES OF THE STRUCTURE DURING BACKFILL OPERATIONS.

SET THE ROLLER IN THE STATIC MODE FOR COMPACTING THE ASPHALT WEARING SURFACE OVER THE CULVERT WHEN THE DEPTH OF FILL IS LESS THAN 3 FEET.

ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM.

INCIDENTAL ITEMS

ALL ITEMS SHOWN AND NOTED ON PLANS WHICH ARE NOT SPECIFICALLY BID ITEMS ARE CONSIDERED INCIDENTAL ITEMS. THE COST OF FURNISHING AND INSTALLING ALL INCIDENTAL ITEMS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS, UNLESS NOTED OTHERWISE.

FOOTING DESIGN LOADS

STRENGTH LIMIT STATE

NOMINAL BEARING RESISTANCE q_n =15 KSF

EFFECTIVE FOOTING WIDTH B' = 22.83 FT

RESISTANCE FACTOR Φ_b = 0.45

FACTORED BEARING RESISTANCE $q_R = q_n \Phi_b$ = 6.75 KSF

FACTORED APPLIED LOAD $\gamma Q/(B'L')$ = 3.83 KSF

SERVICE LIMIT STATE

NOMINAL BEARING CAPACITY q_p = 4 KSF

BASED UPON FOOTING SETTLEMENT = 1 INCHES OR LESS

EFFECTIVE FOOTING WIDTH B' = 22.83 FT

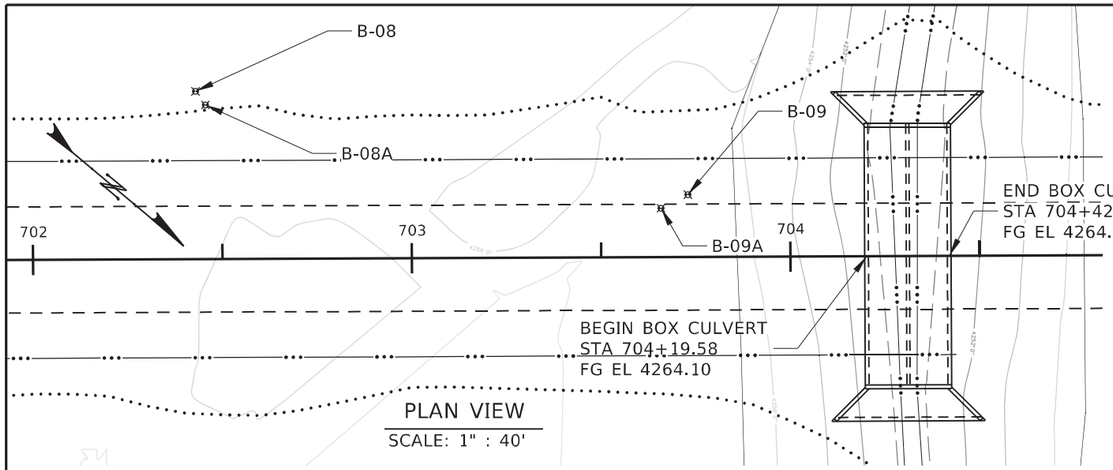
RESISTANCE FACTOR Φ = 1.0

FACTORED PRESUMPTIVE BEARING RESJSTANCE Φq_p = 4.0 KSF

FACTORED APPLIED LOAD $\gamma Q/(B'L')$ = 1.34 KSF

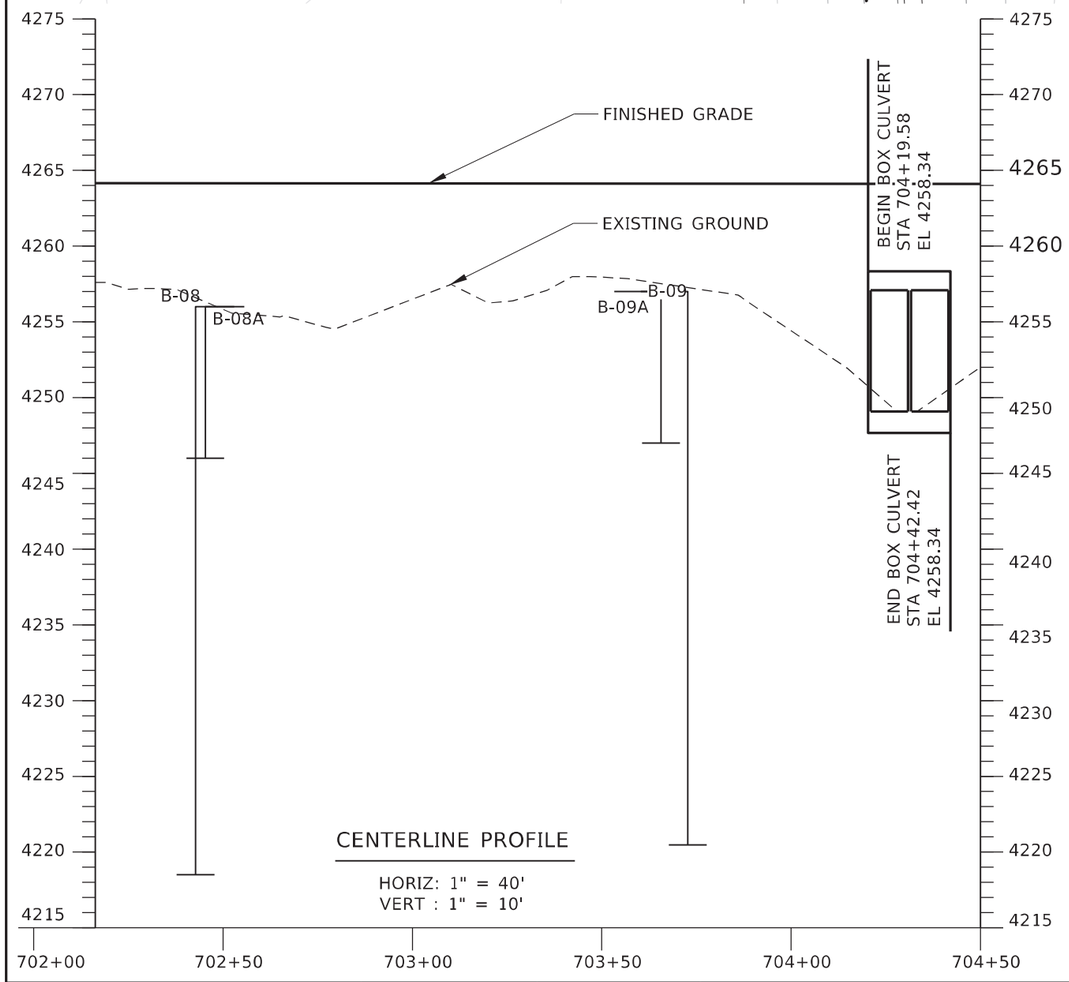
REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	ENGLISH	DESIGN AND GENERAL NOTES	BRIDGE PLANS	
NO.	DATE	BY	DESCRIPTION	C. STEELE		YOUR Safety→YOUR Mobility→YOUR Economic Opportunity			BRIDGE KEY NO. 34465	
				DESIGN CHECKED G. ELLIS	CADD FILE NAME DX\prj\XXXXX\Proj\Dev\Bridge\Plans 19637_BDTL_003.DGN	CIVIL SCIENCE	PROJECT NO. A019(637)	CONCRETE BOX CULVERT YALE ROAD OVER CALDER CREEK STA. 704+31	COUNTY CASSIA	KEY NO. 19637
				DETAILED Z. BYINGTON						
				DWG. CHECKED G. ELLIS	DRAWING DATE: 25-NOV-2025				BRIDGE DWG. NO. 18047	SHEET 3 OF 9
				CORRECTIONS Z. BYINGTON						

PROFESSIONAL ENGINEER REGISTERED 10674 STATE OF IDAHO GARY ELLIS 11/29/25



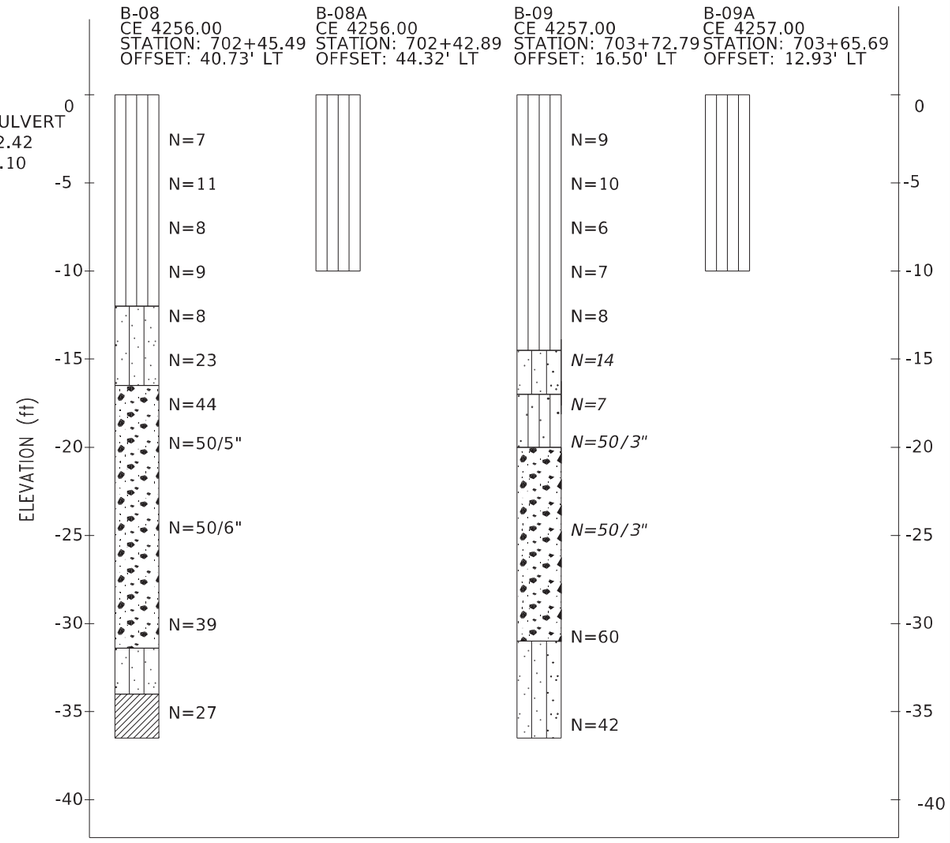
PLAN VIEW

SCALE: 1" : 40'



CENTERLINE PROFILE

HORIZ: 1" = 40'
VERT : 1" = 10'



LEGEND

- Silt
- Silty Sand
- Poorly-graded Gravel
- Low Plasticity Clay
- Sandy Silt

CE COLLAR ELEVATION

BHE BOTTOM OF HOLE ELEVATION

N (SEE NOTE 3)

NOTES:

1. THE BORING LOGS SHOW SUBSURFACE CONDITIONS ONLY AT THE LOCATIONS AND TIMES THE BORINGS WERE DRILLED. THEY MAY NOT BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS.
2. THE FOUNDATION INVESTIGATION REPORT, BORING LOGS AND OTHER INFORMATION RELATED TO THIS FOUNDATION INVESTIGATION PLAT ARE AVAILABLE AT THE LHTAC OFFICE IN BOISE.
3. STANDARD PENETRATION TESTS (SPT) WERE PERFORMED IN ACCORDANCE WITH THE METHODS DESCRIBED IN ASTM D1586. A 140 LB HAMMER WAS DROPPED AN AVERAGE OF 30 INCHES BY AN AUTOMATIC DROP SYSTEM. THE N-VALUE SHOWN REPRESENTS THE NUMBER OF BLOWS PER 12 INCHES OF PENETRATION UNLESS OTHERWISE NOTED.
4. SURVEY INFORMATION NOT PROVIDED. BORING LOCATION AND ELEVATION ARE APPROXIMATE.

I, RYAN VAN LEUVEN, HAVE REVIEWED THE GEOTECHNICAL CONTENTS OF THIS DRAWING AND FIND IT TO BE IN ACCORDANCE WITH THE PHASE IV INVESTIGATION REPORT PREPARED FOR THIS PROJECT BY AMERICAN GEOTECHNICS, INC.

THE FOUNDATION INVESTIGATION REPORT, BORING LOGS, AND OTHER INFORMATION RELATED TO THE FOUNDATION INVESTIGATION OF THIS PROJECT ARE AVAILABLE AT THE LHTAC OFFICE IN BOISE, IDAHO

PROFESSIONAL ENGINEER
LICENSED
4/14/25
15933
STATE OF IDAHO
RYAN VAN LEUVEN

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. STEELE
DESIGN CHECKED G. ELLIS
DETAILED J. BROWNING
DWG. CHECKED G. ELLIS
CORRECTIONS Z. BYINGTON

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME
DX\prjXXXXX\Proj\Dev\Bridge\Plans
19637_BDTL_004.DGN

DRAWING DATE: 9-APR-2025

IDAHO TRANSPORTATION DEPARTMENT
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CIVIL SCIENCE

ENGLISH

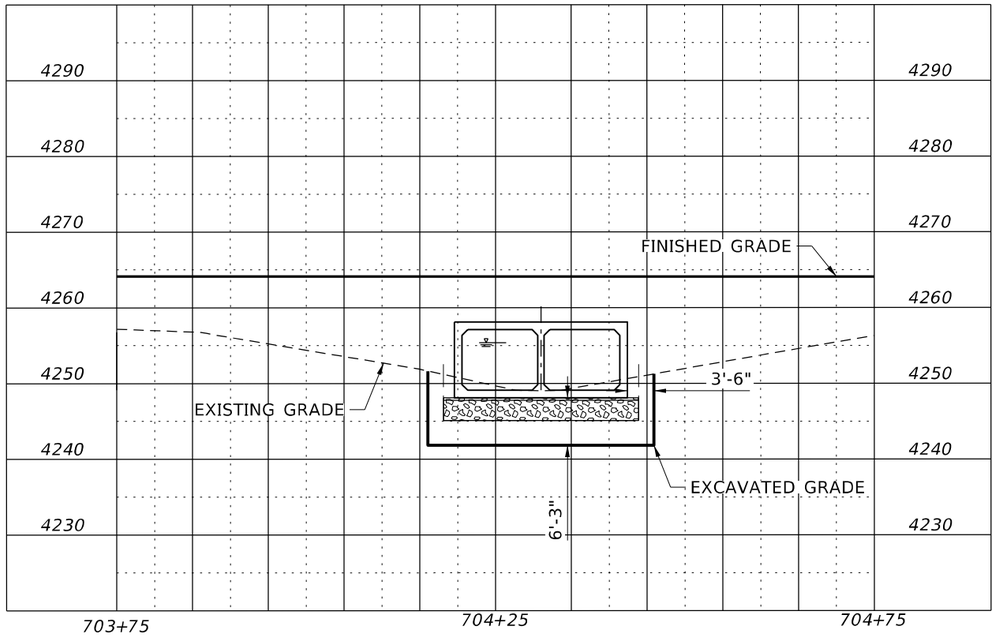
PROJECT NO.
A019(637)

FOUNDATION INVESTIGATION

CONCRETE BOX CULVERT
YALE ROAD OVER CALDER CREEK
STA. 704+31

BRIDGE PLANS

BRIDGE KEY NO. 34465	
COUNTY CASSIA	KEY NO. 19637
BRIDGE DWG. NO. 18047	SHEET 4 OF 9



SITE EXCAVATION - SECTION

1" = 20'

NOTES

1. CONTRACTOR IS RESPONSIBLE TO FIELD LOCATE AND VERIFY ALL EXISTING UTILITY LOCATIONS AND DEPTHS.
2. HIGH GROUNDWATER MAY BE ENCOUNTERED DURING EXCAVATION AND/OR CONSTRUCTION: CONTRACTOR SHALL PLAN HIS EFFORTS ACCORDINGLY.
3. THE CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS TO PROVIDE TEMPORARY UTILITIES TO CONSTRUCT THE PROJECT AS NEEDED.
4. ALL CONSTRUCTION WORK SHALL BE PERFORMED WITHIN EXISTING RIGHT-OF-WAYS AND DEDICATED UTILITY EASEMENTS.
5. STORAGE OF EXCAVATED MATERIALS SHALL BE COORDINATED WITH PROPERTY OWNER AND BE STOCKPILED AS DIRECTED.
6. ALL BIODEGRADABLE DEBRIS RESULTING FROM WORK ON THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR TO A LOCATION AS DIRECTED BY THE PROPERTY OWNER. ALL NON=BIODEGRADABLE DEBRIS RESULTING FROM WORK ON THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR.
7. CONTRACTOR SHALL KEEP ALL PUBLIC ROADWAYS CLEAR OF MUD, DIRT AND DEBRIS CREATED BY CONSTRUCTION ACTIVITES. DUST WILL BE CONTROLLED BY WATERING.
8. A SOILS FOUNDATION INVESTIGATION REPORT HAS BEEN PREPARED FOR THIS SITE BY AMERICAN GEOTECHNICS. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTENTS THEREOF, AND SHALL COMPLY WITH ALL REQUIREMENTS AND RECOMMENDATIONS CONTAINED THEREIN.
9. EXCAVATION TO BE SCHEDULED OUTSIDE OF THE RAINY SEASON TO THE EXTENT POSSIBLE, AND SURFACE WATER RUN-OFF AND EROSION CONTROL MEASURES SHOULD MINIMIZE THE WATER ENTERING THE EXCAVATION.
10. ALL EXCAVATIONS, TRENCHING, AND SHORING SHALL MEET THE REQUIREMENTS OF THE IDAHO OCCUPATIONAL HEALTH AND SAFETY COMMISION.

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			

DESIGNED C. STEELE
DESIGN CHECKED G. ELLIS
DETAILED J. BROWNING
DWG. CHECKED G. ELLIS
CORRECTIONS Z. BYINGTON

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME
D:\prj\XXXXX\Proj\Dev\Bridge\Plans
19637_BDTL_005.DGN

DRAWING DATE:
25-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
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CIVIL SCIENCE

ENGLISH

PROJECT NO.
A019(637)

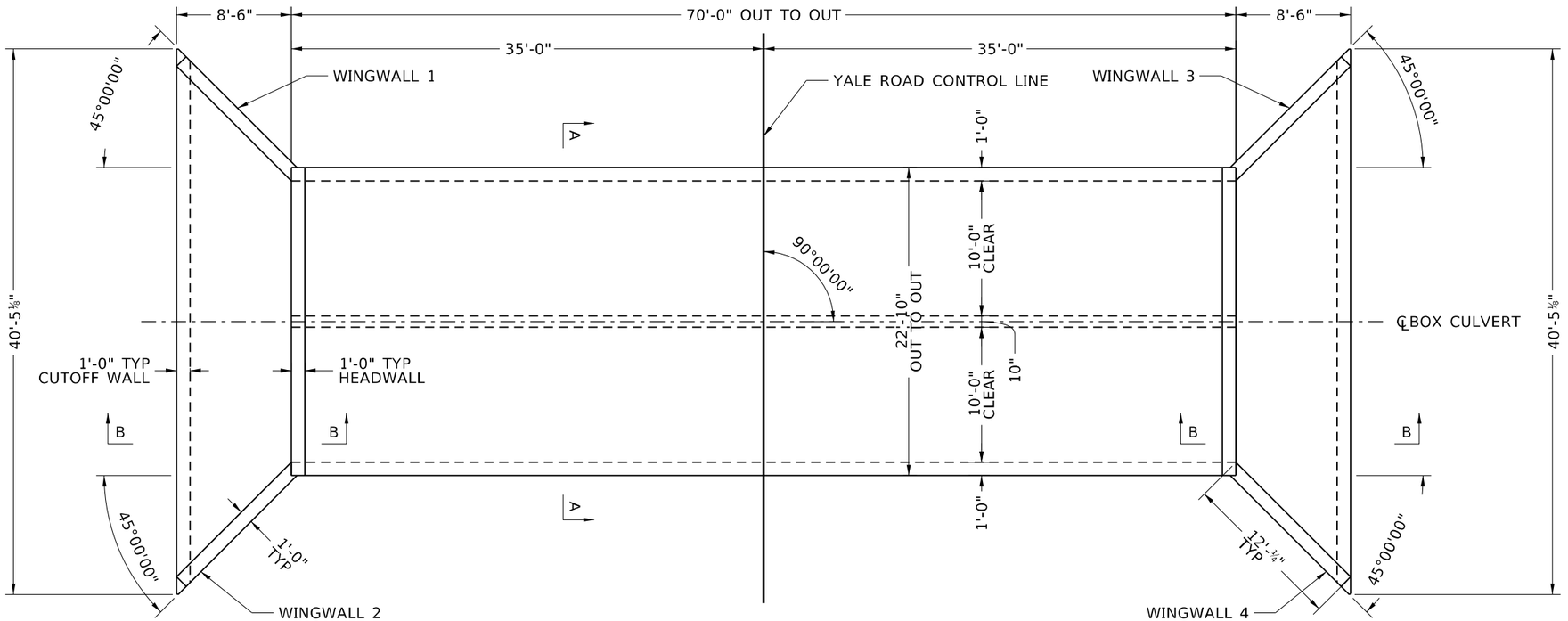
BACKFILL AND EXCAVATION DETAILS

CONCRETE BOX CULVERT
YALE ROAD OVER CALDER CREEK
STA. 704+31

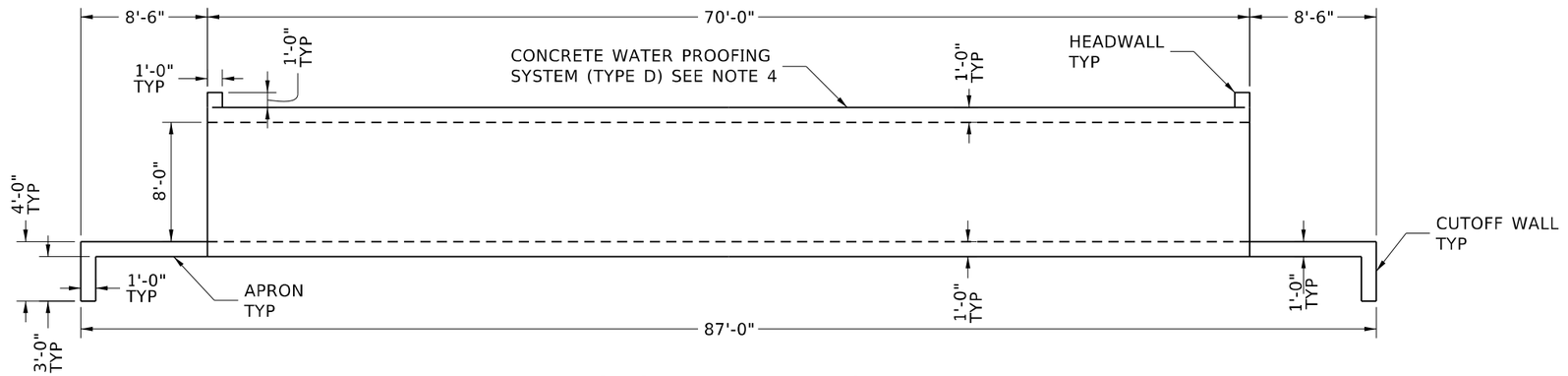
BRIDGE PLANS

BRIDGE KEY NO. 34465
COUNTY CASSIA
KEY NO. 19637
BRIDGE DWG. NO. 18047
SHEET 5 OF 9

PROFESSIONAL ENGINEER REGISTERED 10674 STATE OF IDAHO GARY ELLIS
11/29/25



BOX CULVERT - PLAN



BOX CULVERT - ELEVATION

GENERAL NOTES

1. LOOSE OR VERY SOFT SEDIMENTS, OR SOIL DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REMOVED FROM THE BOTTOM OF THE EXCAVATION BEFORE PLACEMENT OF STRUCTURE(S).
2. ALL STRUCTURES/FOOTINGS SHALL BE PLACED ON EIGHT (8) INCHES MINIMUM OF 3/4"-MINUS BASE COURSE MATERIAL.
3. REFER TO SHEETS 7 AND 8 FOR REINFORCING DETAILS.
4. APPLY WATER PROOFING MEMBRANE TYPE D TO THE TOP OF SLAB AND 2 FEET DOWN THE SIDES.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. STEELE
DESIGN CHECKED G. ELLIS
DETAILED Z. BYINGTON
DWG. CHECKED G. ELLIS
CORRECTIONS Z. BYINGTON

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME DX\prjXXXXX\Proj\Dev\Bridge\Plans 19637_BDTL_006.DGN
DRAWING DATE: 25-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

ENGLISH

PROJECT NO. A019(637)

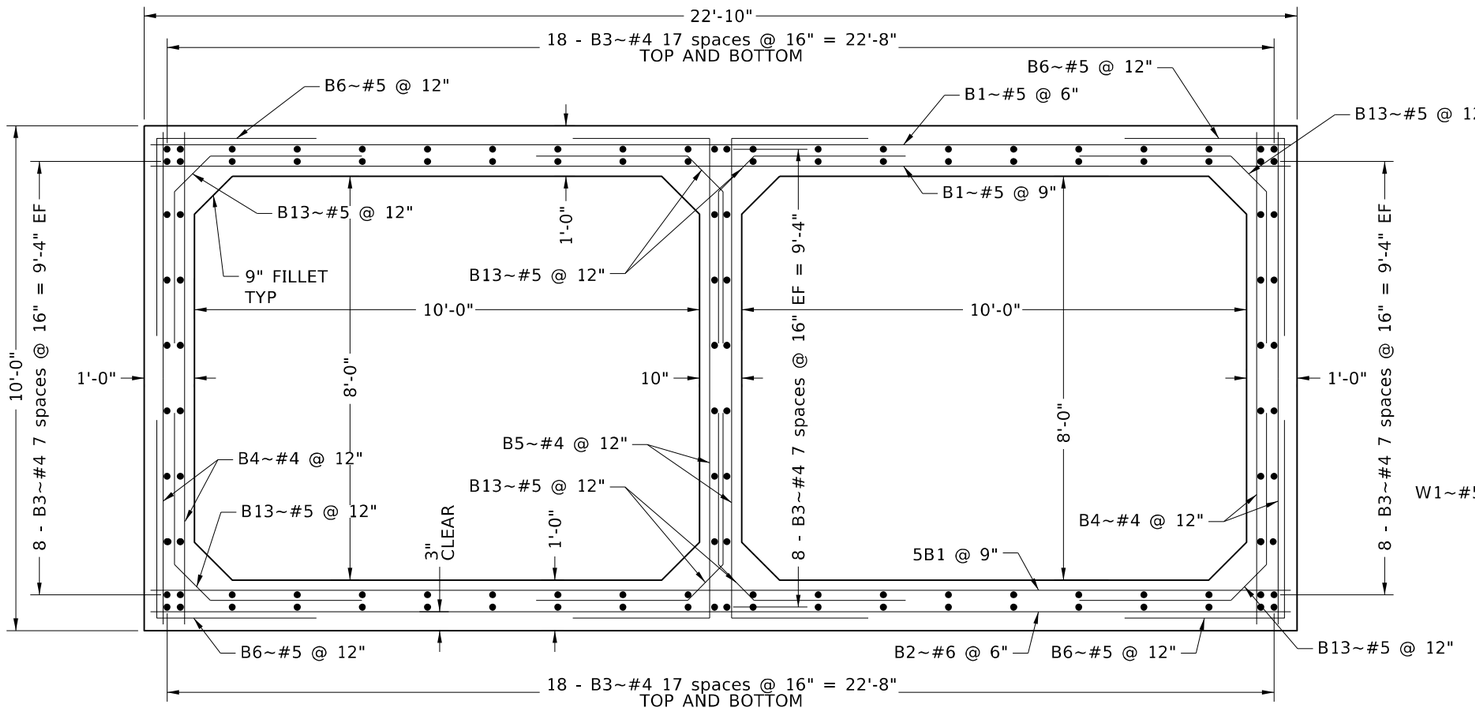
BOX LAYOUT AND NOTES

CONCRETE BOX CULVERT
YALE ROAD OVER CALDER CREEK
STA. 704+31

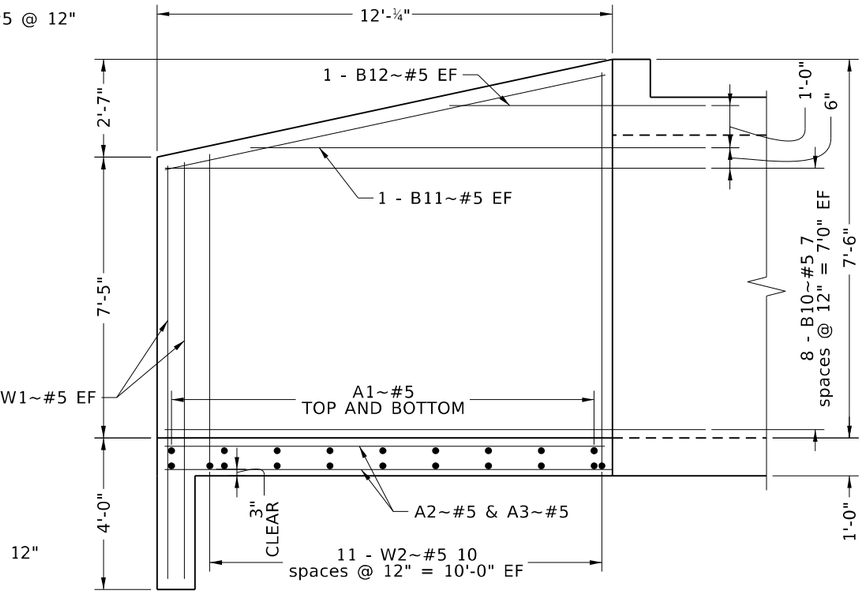
BRIDGE PLANS

BRIDGE KEY NO. 34465
COUNTY CASSIA | KEY NO. 19637
BRIDGE DWG. NO. 18047 | SHEET 6 OF 9

PROFESSIONAL ENGINEER REGISTERED 10674 STATE OF IDAHO GARY ELLIS
11/29/25

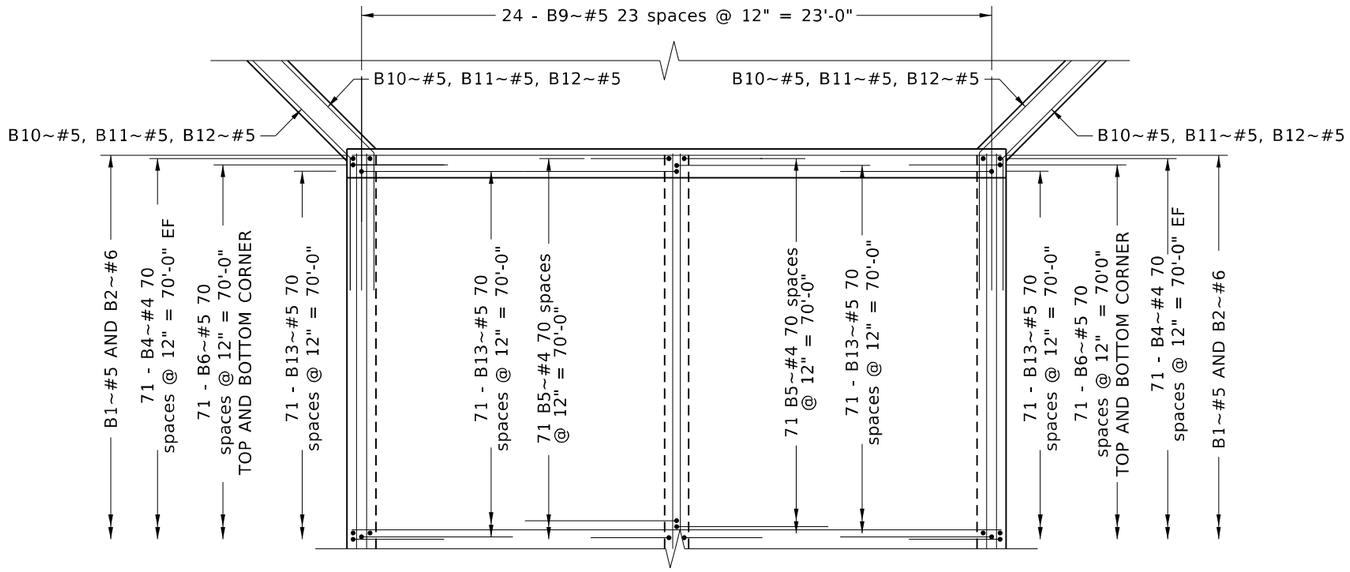


BOX CULVERT - SECTION A-A



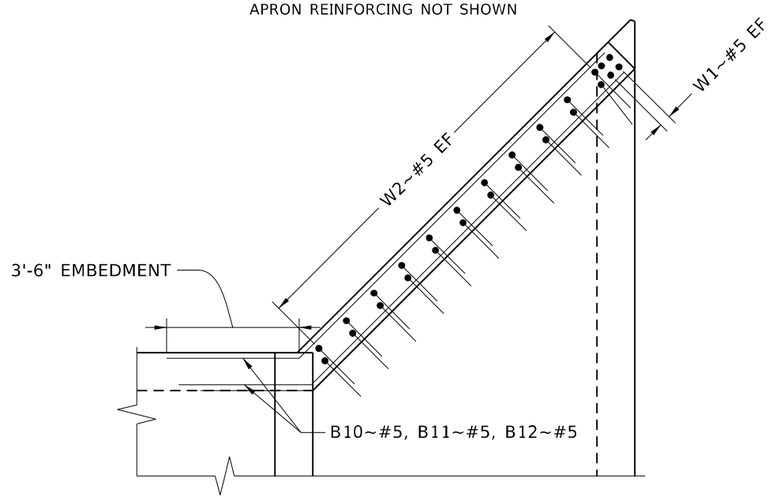
WINGWALL ELEVATION

WINGWALLS 1, 2, 3, AND 4 SIMILAR
APRON REINFORCING NOT SHOWN



BOX CULVERT PLAN

HEADWALL REINFORCING NOT SHOWN

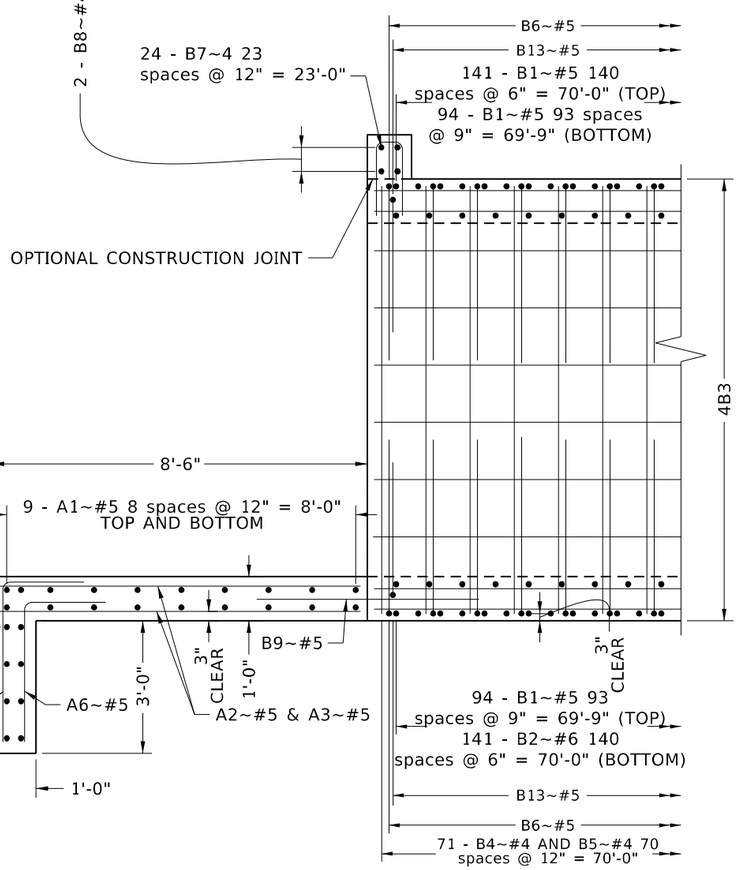


WINGWALL PLAN

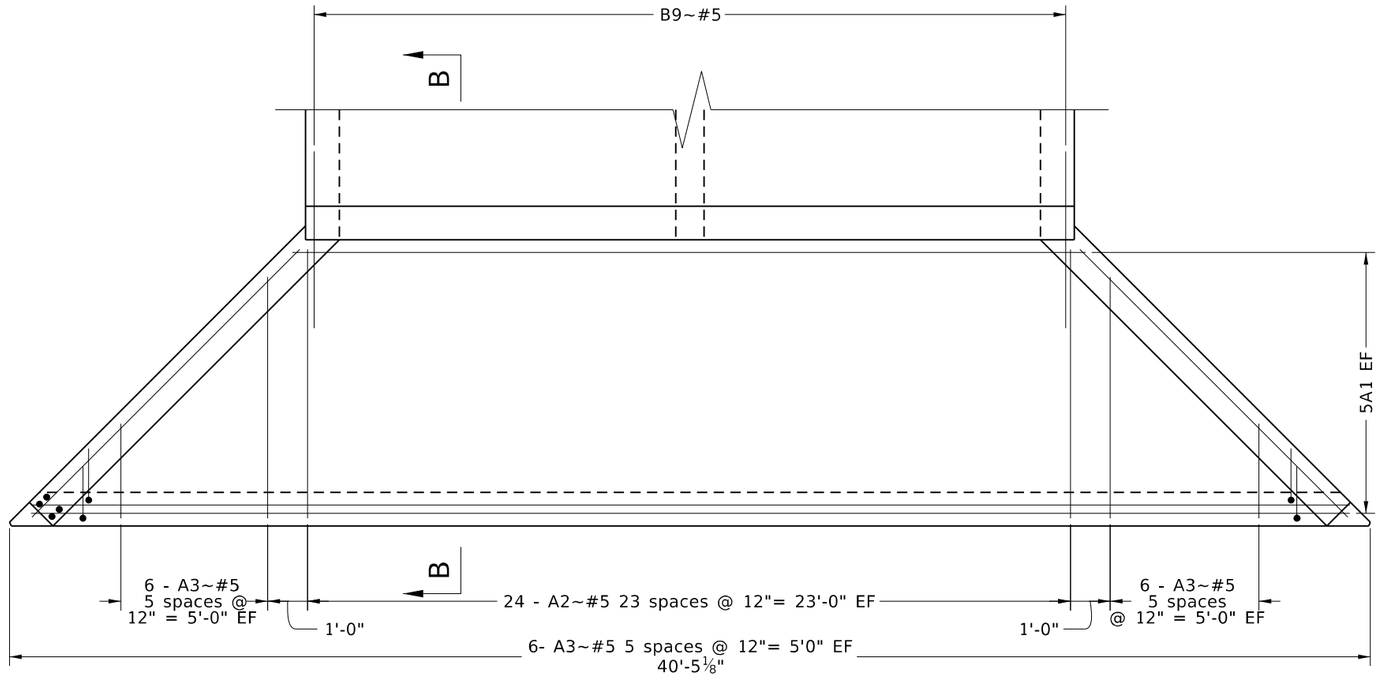
WINGWALLS 1, 2, 3, AND 4 SIMILAR
APRON REINFORCING NOT SHOWN

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	ENGLISH	BOX CULVERT REINFORCEMENT DETAILS	BRIDGE PLANS
NO.	DATE	BY	DESCRIPTION	C. STEELE					BRIDGE KEY NO. 34465
				DESIGN CHECKED G. ELLIS	CADD FILE NAME	YOUR Safety→YOUR Mobility→YOUR Economic Opportunity	PROJECT NO.	CONCRETE BOX CULVERT YALE ROAD OVER CALDER CREEK STA. 704+31	COUNTY CASSIA / KEY NO. 19637
				DETAILED Z. BYINGTON	DX\prj\XXXXX\Proj\Dev\Bridge\Plans 19637_BDTL_007.DGN				BRIDGE DWG. NO. 18047 / SHEET 7 OF 9
				DWG. CHECKED G. ELLIS	DRAWING DATE: 25-NOV-2025	CIVIL SCIENCE	A019(637)		
				CORRECTIONS Z. BYINGTON					

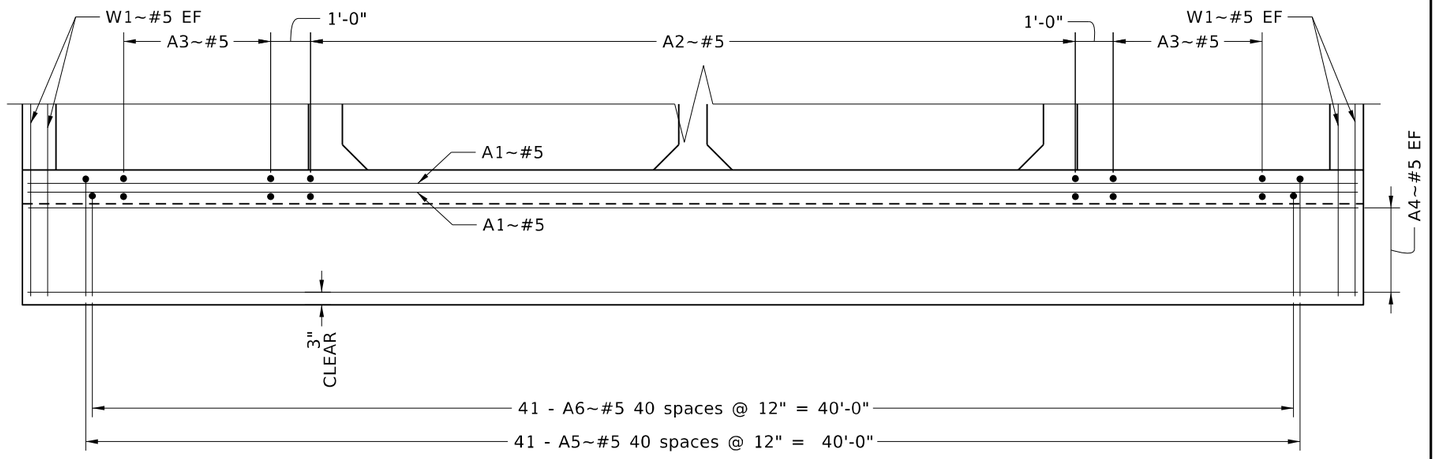
PROFESSIONAL ENGINEER REGISTERED 10574 STATE OF IDAHO GARY ELLIS 11/29/25



HEADWALL ELEVATION B-B
EAST AND WEST APRONS SIMILAR



APRON PLAN
EAST AND WEST APRONS SIMILAR



HEADWALL ELEVATION
EAST AND WEST APRONS SIMILAR

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. STEELE
DESIGN CHECKED G. ELLIS
DETAILED Z. BYINGTON
DWG. CHECKED G. ELLIS
CORRECTIONS Z. BYINGTON

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
DX\prjXXXXX\ProjDev\Bridge\Plans
19637_BDTL_008.DGN
DRAWING DATE:
25-NOV-2025

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

ENGLISH
PROJECT NO.
A019(637)

WINGWALL DETAILS
CONCRETE BOX CULVERT
YALE ROAD OVER CALDER CREEK
STA. 704+31

BRIDGE PLANS
BRIDGE KEY NO. 34465
COUNTY CASSIA | KEY NO. 19637
BRIDGE DWG. NO. 18047 | SHEET 8 OF 9

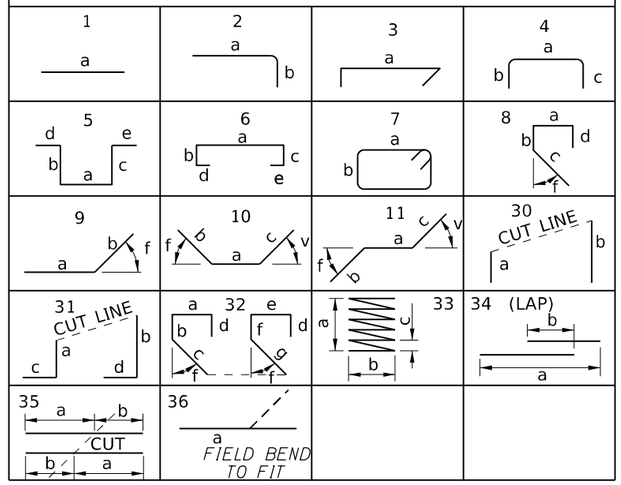
PROFESSIONAL ENGINEER REGISTERED 10674 STATE OF IDAHO GARY ELLIS
11/29/25

REINFORCING SCHEDULE

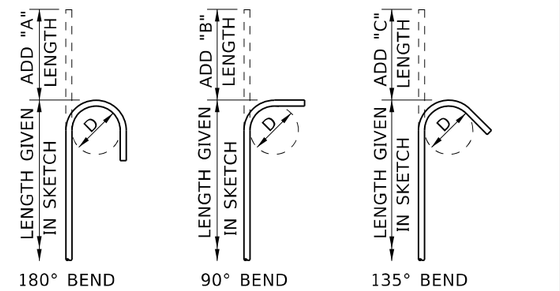
MARK	LOCATION	BAR SIZE	COAT (E)	NO. OF BARS	BAR TYPE	BARS/ SET	LENGTH a	LENGTH b	LENGTH c	LENGTH d	LENGTH e	ANGLE f	ANGLE v	TOTAL LENGTH
B1	BOX CULVERT	5		329	1		22'-6"							7402'-6"
B2	BOX CULVERT	6		140	1		22'-6"							3150'-0"
B3	BOX CULVERT	4		120	34		69'-8"	2'-3"						8630'-0"
B4	BOX CULVERT	4		284	1		9'-7"							2721'-8"
B5	BOX CULVERT	4		142	4		9'-7"	3'-2"	3'-2"					2260'-2"
B6	BOX CULVERT	5		284	2		4'0"	4'-0"						2272'-0"
B7	BOX CULVERT	4		48	4		0'-8"	1'-10"	1'-10"					208'-0"
B8	BOX CULVERT	4		8	1		22'-6"							180'-0"
B9	BOX CULVERT	5		48	1		6'-0"							288'-0"
B10	BOX CULVERT	5		64	9		11'-10"	3'-6"				45°		981'-4"
B11	BOX CULVERT	5		8	9		9'-6"	3'-6"				45°		104'-0"
B12	BOX CULVERT	5		8	9		4'-6"	3'-6"				45°		64'-0"
B13	BOX CULVERT	5		568	10		1'-0"	3'-0"	3'-0"			45°		2840'-0"
A1	APRON	5		9	30	4	23'-5"	39'-5 1/2"						1131'-9"
A2	APRON	5		96	1		8'-0"							768'-0"
A3	APRON	5		6	30	8	1'-3 3/4"	7'-3 3/4"						207'0"
A4	APRON	5		16	1		38'-1 7/8"							610'-6"
A5	APRON	5		82	2		3'-6"	2'-3"						471'-6"
A6	APRON	5		82	2		3'-0"	2'-3"						430'-6"
W1	WINGWALL	5		16	1		11'-0"							176'-0"
W2	WINGWALL	5		22	31	4	7'-3 1/2"	9'-5 1/4"	2'-3"	2'-3"				1132'-1"

*CONTRACTOR CAN SUBMIT ALTERNATE LAP SPLICES FOR BARS IN LIEU OF HOW IT IS DRAWN FOR APPROVAL.

BAR BEND DIAGRAMS



BEND DETAILS



180° BEND 90° BEND 135° BEND

"L" = LENGTH GIVEN IN SKETCH

TOTAL BAR WEIGHT

BAR SIZE	LINEAR FEET	POUNDS PER FOOT	TOTAL WEIGHT
#3	0	0.376	0
#4	13999'-10"	0.668	9351.89
#5	18879'-2"	1.043	19690.97
#6	3150'-0"	1.502	4731.30
#7	0	2.044	0
#8	0	2.670	0
#9	0	3.400	0
#10	0	4.303	0
#11	0	5.313	0
#14	0	7.650	0
#18	0	13.600	0
		TOTAL WEIGHT	33774.16

EPOXY COATED BAR WEIGHT

BAR SIZE	LINEAR FEET	POUNDS PER FOOT	TOTAL WEIGHT
#4	0	0.668	0
#5	0	1.043	0
#6	0	1.502	0
#7	0	2.044	0
		TOTAL WEIGHT	0

STANDARD END HOOK DIMENSIONS

BAR SIZE	ALL GRADES D (IN)	ALL GRADES A (IN)	ALL GRADES B (IN)
#3	2¼	5	6
#4	3	6	8
#5	3¾	7	10
#6	4½	8	12
#7	5¼	10	14
#8	6	11	16
#9	9½	15	19
#10	10¾	17	22
#11	12	19	24
#14	18¼	27	31
#18	24	36	41

STIRRUP AND TIE HOOK DIMENSIONS

ALL GRADES D (IN)	ALL GRADES B (IN)	ALL GRADES C (IN)
1½	4	4
2	4½	4½
2½	6	5½
4½	12	8
5¼	14	9
6	16	10½

REINFORCEMENT NOTES

1. ALL BEND DETAILS TO BE ACCORDING TO THE LATEST A.C.I. STANDARD PRACTICE AND AASHTO SPECIFICATIONS.
2. DIMENSIONS SHOWN IN THE "BAR BEND DIAGRAMS" ARE OUT TO OUT OF BEND POINTS OR HOOKS AND/OR END OF BARS UNLESS NOTED OTHERWISE. PIN DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.
3. NO DEDUCTIONS FOR CURVATURE AT BENDS ARE MADE EXCEPT FOR THE ADJUSTMENTS INCLUDED IN THE ABOVE "ADD LENGTH" DIMENSIONS.
4. * INDICATES STIRRUP OR TIE BAR.
5. ALL BARS SHALL CONFORM TO AASHTO M31, GRADE 60.
6. BARS DESIGNATED "E" IN THE "COAT (E)" COLUMN SHALL BE EPOXY COATED.
7. ONLY REINFORCING STEEL TO BE PAID FOR UNDER THE BID ITEMS 503-005A, 503-010A, 503-015A & 503-020A IS SHOWN ON THIS SHEET. SEE OTHER SHEETS FOR REINFORCING STEEL INCLUDED IN OTHER PAY ITEMS.
8. THE CONTRACTOR SHALL VERIFY THE QUANTITY, SIZE, AND SHAPE OF THE BAR REINFORCEMENT AGAINST THE STRUCTURE DRAWINGS AND MAKE ANY NECESSARY CORRECTIONS BEFORE ORDERING, AS PER SUBSECTION 503.03 OF THE STANDARD SPECIFICATIONS.

REVISIONS NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			

DESIGNED C. STEELE
DESIGN CHECKED G. ELLIS
DETAILED Z. BYINGTON
DWG. CHECKED G. ELLIS
CORRECTIONS Z. BYINGTON

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
D:\prj\XXXXX\Proj\Dev\Bridge\Plans\19637_BDTL_009.DGN
DRAWING DATE: 25-NOV-2025

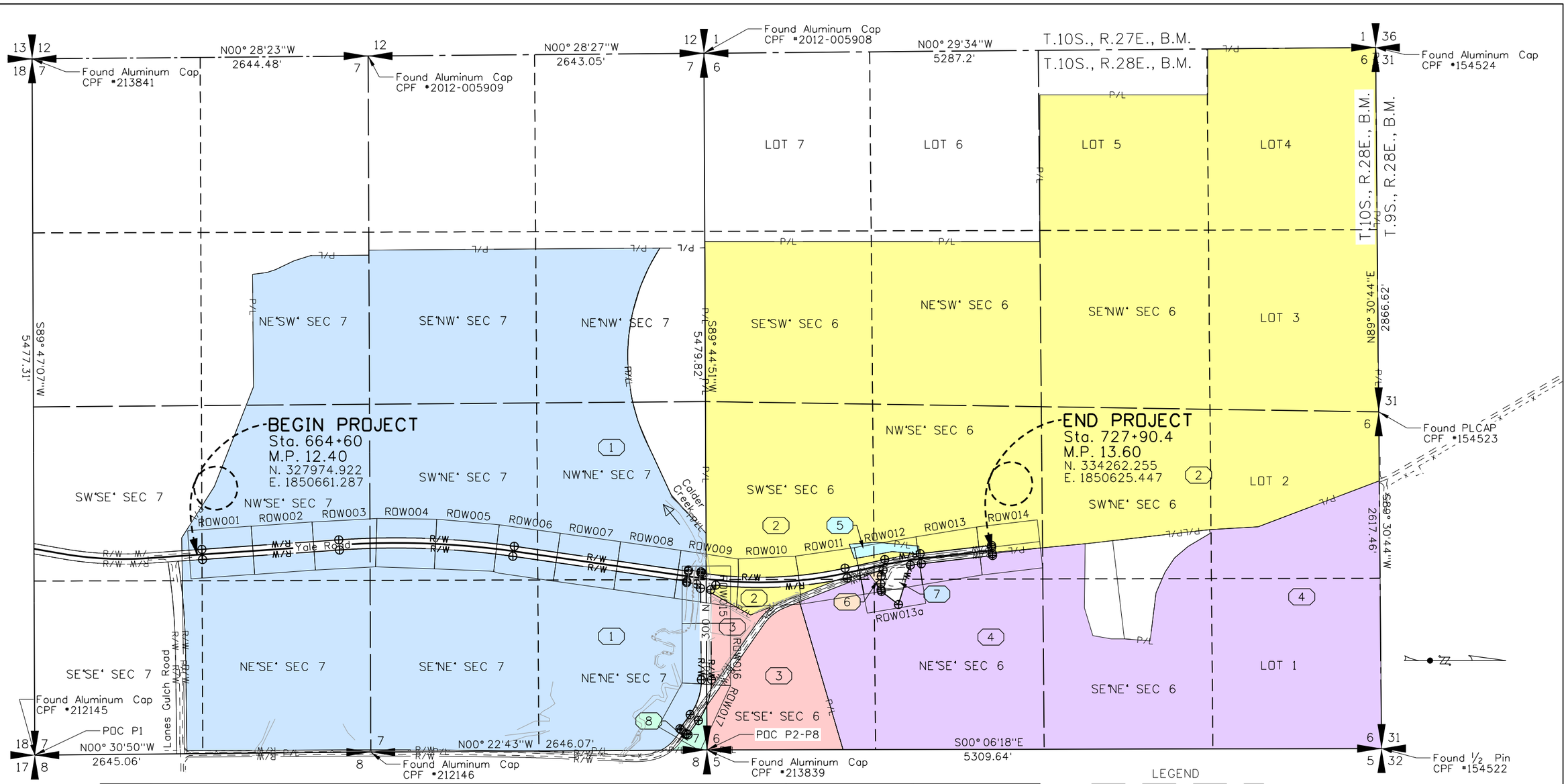
IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
CIVIL SCIENCE

ENGLISH
PROJECT NO.
A019(637)

METAL REINFORCEMENT
CONCRETE BOX CULVERT
YALE ROAD OVER CALDER CREEK
STA. 704+31

BRIDGE PLANS
BRIDGE KEY NO. 34465
COUNTY CASSIA | KEY NO. 19637
BRIDGE DWG. NO. 18047 | SHEET 9 OF 9

PROFESSIONAL ENGINEER REGISTERED 10674 STATE OF IDAHO GARY ELLIS
11/29/25



Parcel No.	Parcel I.D. No.	Record Owner	Total Ownership Assessed Ac.	Right of Way		Remainder		Easement	
				Req'd Ac	Exist Ac	Left Ac	Right Ac	Perm Ac	Temp Ac
1	RP10S28E070003	GW Finance Company, LLC	324.860	8.511	0.199	175.247	140.903	0.000	12.727
2	RP10S28E060752	GW Finance Company, LLC	369.740	2.686	0.802	363.395	2.857	0.000	1.834
3	RP10S28E069351	Woodbury Revocable Trust	23.640	0.659	0.038	0.000	22.943	0.000	0.014
4	RP10S28E060001	GW Finance Company, LLC	156.890	0.209	0.265	0.000	156.416	0.000	0.824
5	RP10S28E068386	GW Finance Company, LLC	1.000	0.0001	0.000	1.000	0.000	0.000	0.369
6	RP10S28E068400	GW Finance Company, LLC	0.250	0.005	0.077	0.000	0.168	0.000	0.062
7	RP10S28E068381	Bruce Lavender	1.217	1.105	0.112	0.000	0.000	0.000	0.000
8	RP10S28E070500	Woodbury Properties LLC	1.250	0.077	0.152	0.000	1.021	0.000	0.028

LEGEND

FOUND SECTION CORNER

FOUND QUARTER CORNER

PROPOSED R/W MARKER

400 0 400 800

MAP SCALE 1"=800'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED J. SOUTHWICK
DETAILED B. BINGHAM
DRAWING CHECKED J. SOUTHWICK

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_OMAP_001
DRAWING DATE: DECEMBER 2022

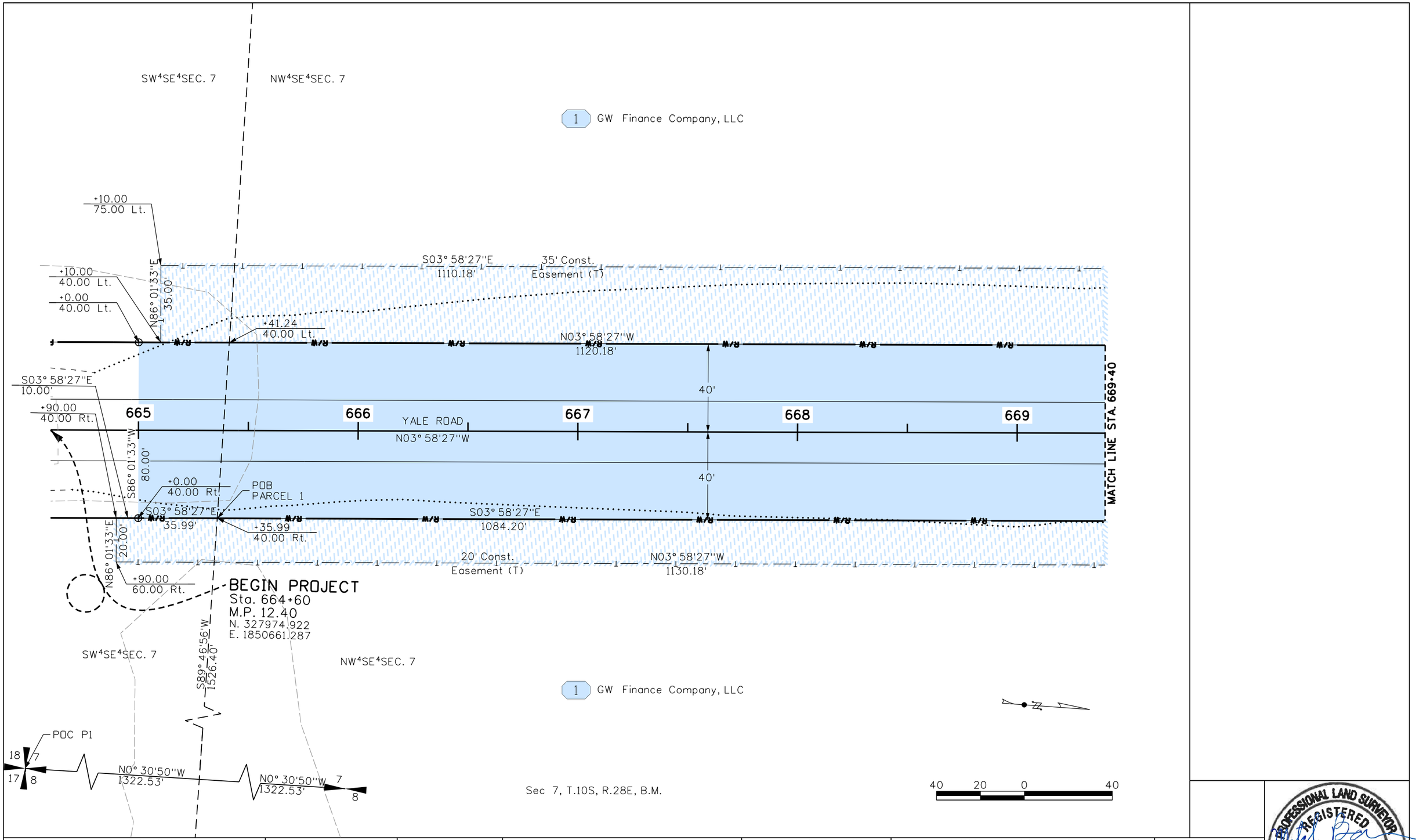
IDAHO TRANSPORTATION DEPARTMENT
CIVIL SCIENCE

PROJECT NO.
A019(637)

VICINITY/TOTAL OWNERSHIP MAP
STC-2837, YALE RD STG 4
M.P. 12.40 TO M.P. 13.60

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 1 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 12/07/2022 STATE OF IDAHO MITCH BARRERAS



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED J. SOUTHWICK	
DETAILED B. BINGHAM	CADD FILE NAME 19637_ROW_001
DRAWING CHECKED J. SOUTHWICK	DRAWING DATE: DECEMBER 2022

IDAHO TRANSPORTATION DEPARTMENT

CIVIL SCIENCE

PROJECT NO.

A019(637)

RIGHT OF WAY PLANS

STC-2837, YALE RD STG 4

STA 664+60 TO STA 669+40

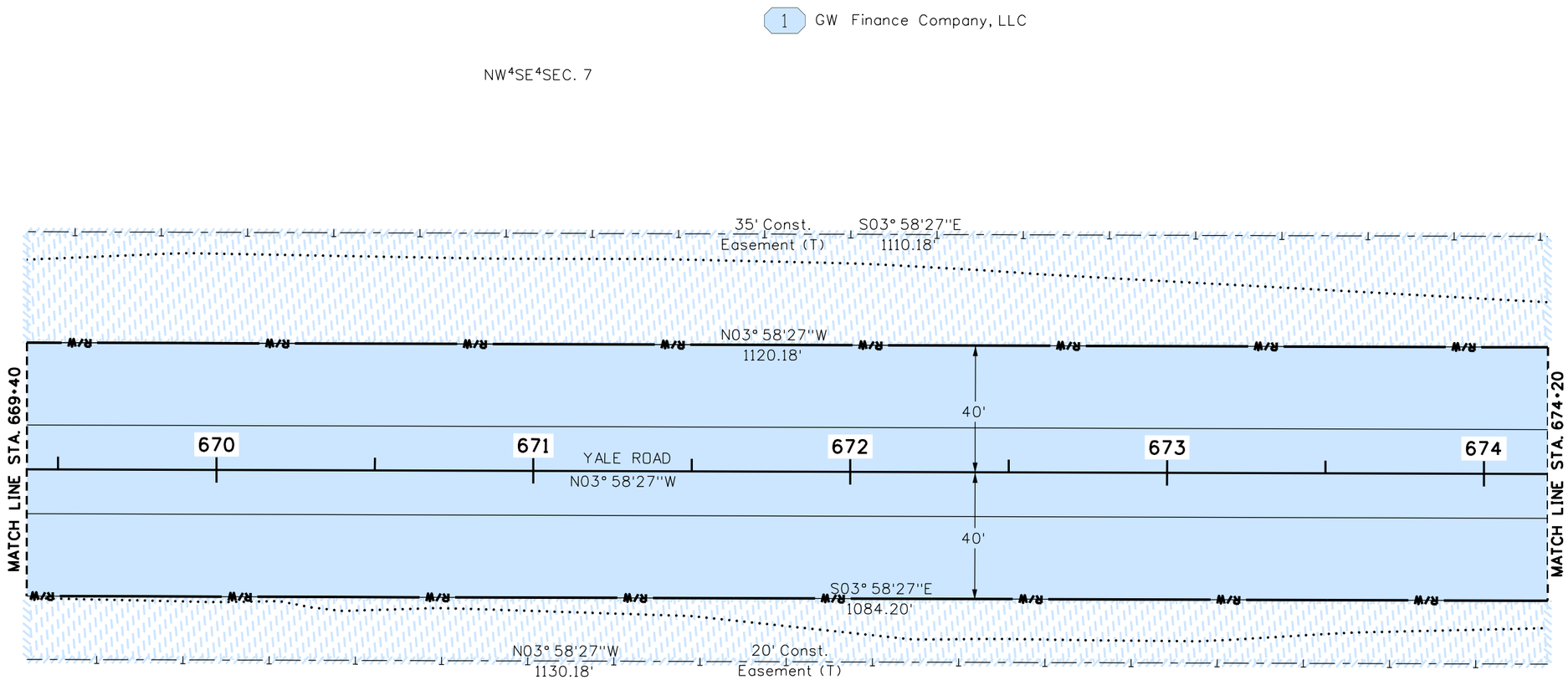
English

COUNTY CASSIA

KEY NUMBER 19637

SHEET 2 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 12/07/2022 STATE OF IDAHO MITCH BARRERAS



1 GW Finance Company, LLC

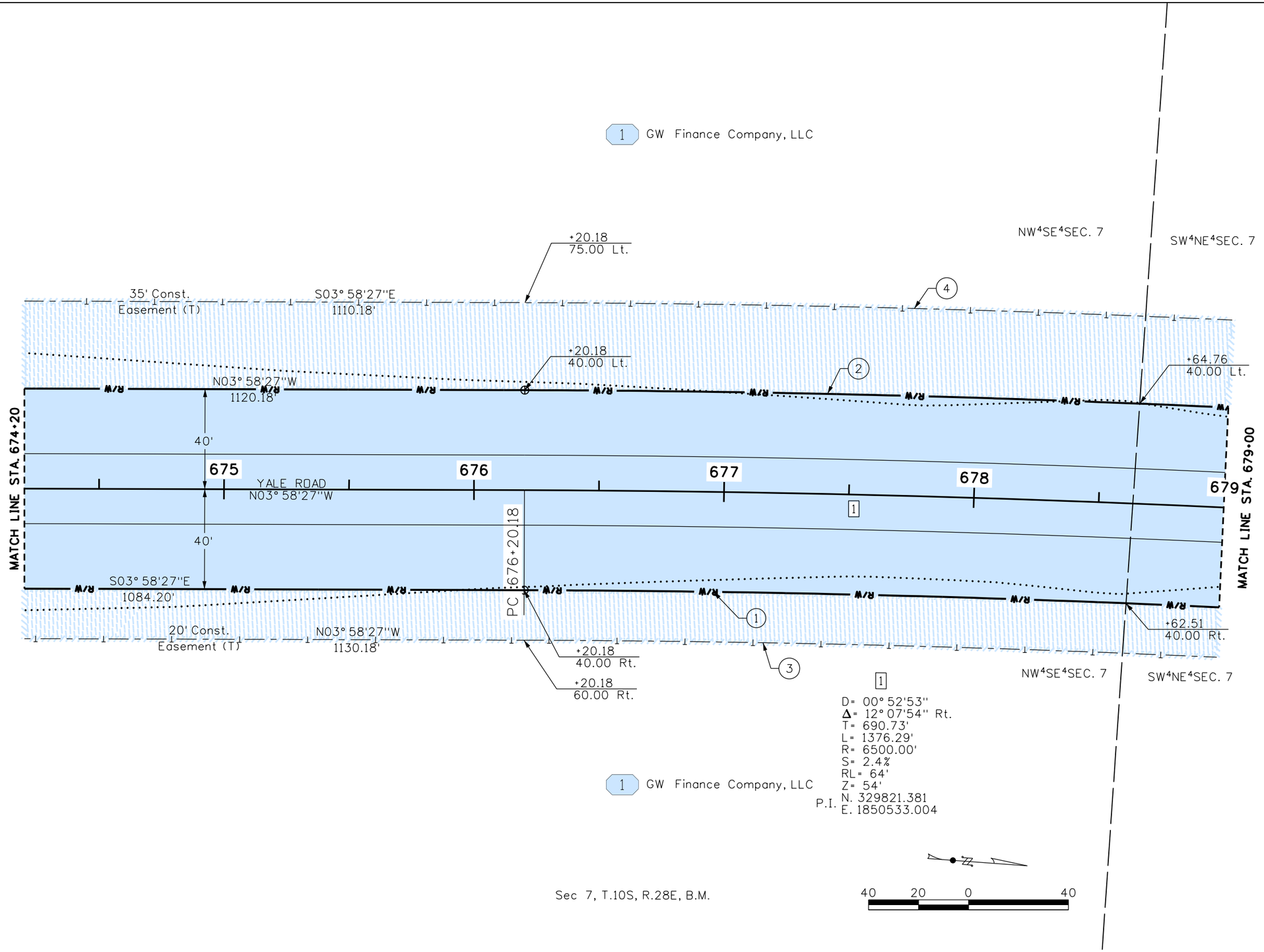
NW4SE4SEC. 7

Sec 7, T.10S, R.28E, B.M.

40 20 0 40

REVISIONS				DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	RIGHT OF WAY PLANS	English
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED J. SOUTHWICK			A019(637)	STC-2837, YALE RD STG 4	COUNTY CASSIA
				DETAILED B. BINGHAM	CADD FILE NAME 19637_ROW_002			STA 669+40 TO STA 674+20	KEY NUMBER 19637
				DRAWING CHECKED J. SOUTHWICK	DRAWING DATE: DECEMBER 2022	CIVIL SCIENCE			SHEET 3 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 12/07/2022 STATE OF IDAHO MITCH BARRERAS



1 **Δ**= 12° 07'54"
R= 6460.00'
T= 686.48'
L= 1367.82'
L.C. = 1365.27'
CH. BRNG.= S02° 05'30"W
LEFT

2 **Δ**= 12° 07'54"
R= 6540.00'
T= 694.98'
L= 1384.76'
L.C. = 1382.18'
CH. BRNG.= N02° 05'30"E
RIGHT

3 **Δ**= 02° 59'43"
R= 6440.00'
T= 168.38'
L= 336.68'
L.C. = 336.64'
CH. BRNG.= N02° 28'36"W
RIGHT

4 **Δ**= 04° 56'05"
R= 6575.00'
T= 283.31'
L= 566.28'
L.C. = 566.10'
CH. BRNG.= S01° 30'25"E
LEFT

1
D= 00° 52'53"
Δ= 12° 07'54" Rt.
T= 690.73'
L= 1376.29'
R= 6500.00'
S= 2.4%
RL= 64'
Z= 54'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED J. SOUTHWICK
DETAILED B. BINGHAM
DRAWING CHECKED J. SOUTHWICK

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_ROW_003
DRAWING DATE: DECEMBER 2022

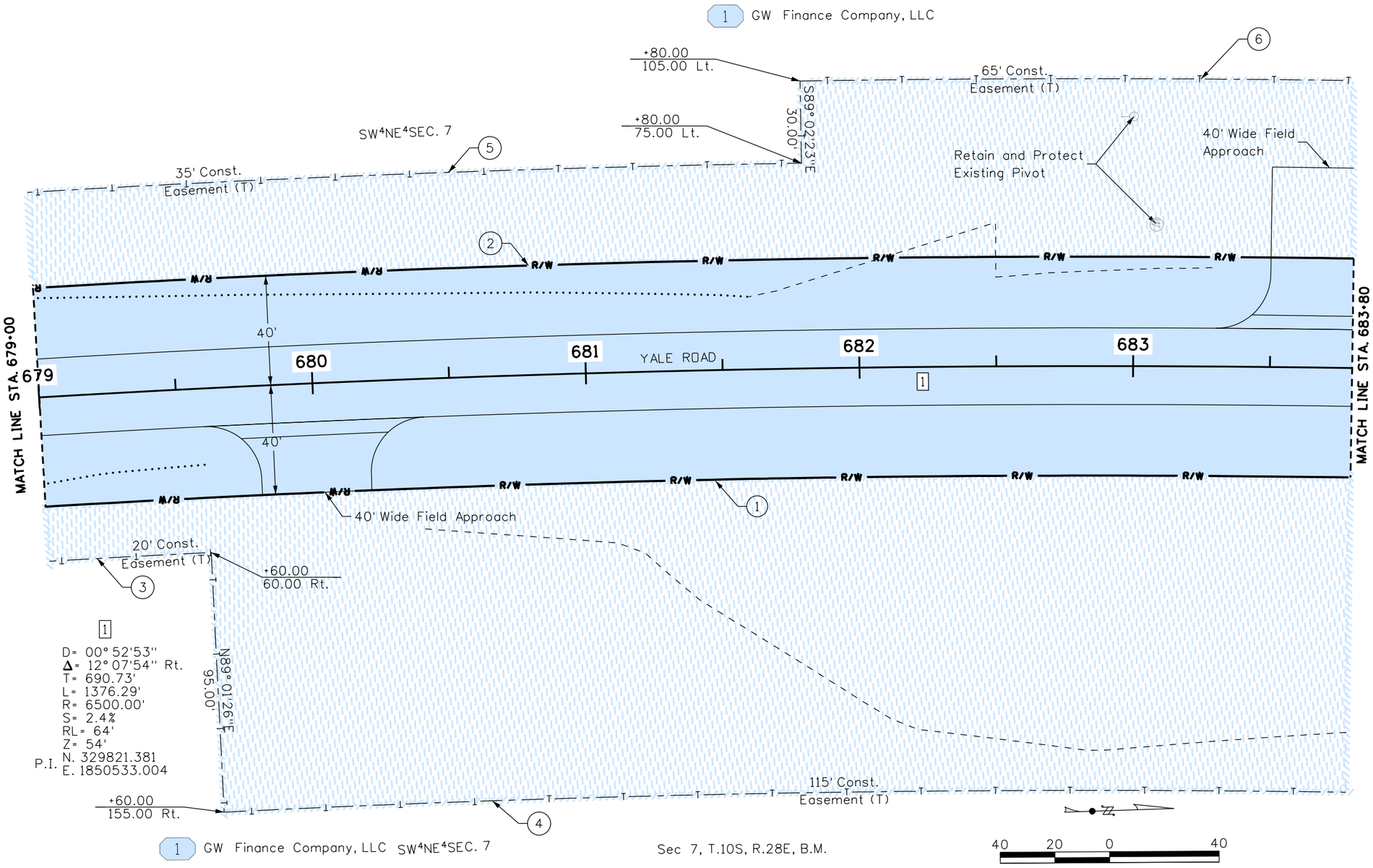
IDAHO TRANSPORTATION DEPARTMENT
CIVIL SCIENCE

PROJECT NO.
A019(637)

RIGHT OF WAY PLANS
STC-2837, YALE RD STG 4
STA 674+20 TO STA 679+00

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 4 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 12/07/2022 STATE OF IDAHO MITCH BARRERAS



1 Δ= 12°07'54"
R= 6460.00'
T= 686.48'
L= 1367.82'
L.C. = 1365.27'
CH. BRNG.= S02°05'30"W
LEFT

2 Δ= 12°07'54"
R= 6540.00'
T= 694.98'
L= 1384.76'
L.C. = 1382.18'
CH. BRNG.= N02°05'30"E
RIGHT

3 Δ= 02°59'43"
R= 6440.00'
T= 168.38'
L= 336.68'
L.C. = 336.64'
CH. BRNG.= N02°28'36"W
RIGHT

4 Δ= 07°34'50"
R= 6345.00'
T= 420.36'
L= 839.49'
L.C. = 838.88'
CH. BRNG.= N02°48'41"E
RIGHT

5 Δ= 04°56'05"
R= 6575.00'
T= 283.31'
L= 566.28'
L.C. = 566.10'
CH. BRNG.= S01°30'25"E
LEFT

6 Δ= 06°52'32"
R= 6605.00'
T= 396.78'
L= 792.60'
L.C. = 792.12'
CH. BRNG.= S04°23'53"W
LEFT

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED J. SOUTHWICK
DETAILED B. BINGHAM
DRAWING CHECKED J. SOUTHWICK

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CADD FILE NAME 19637_ROW_004
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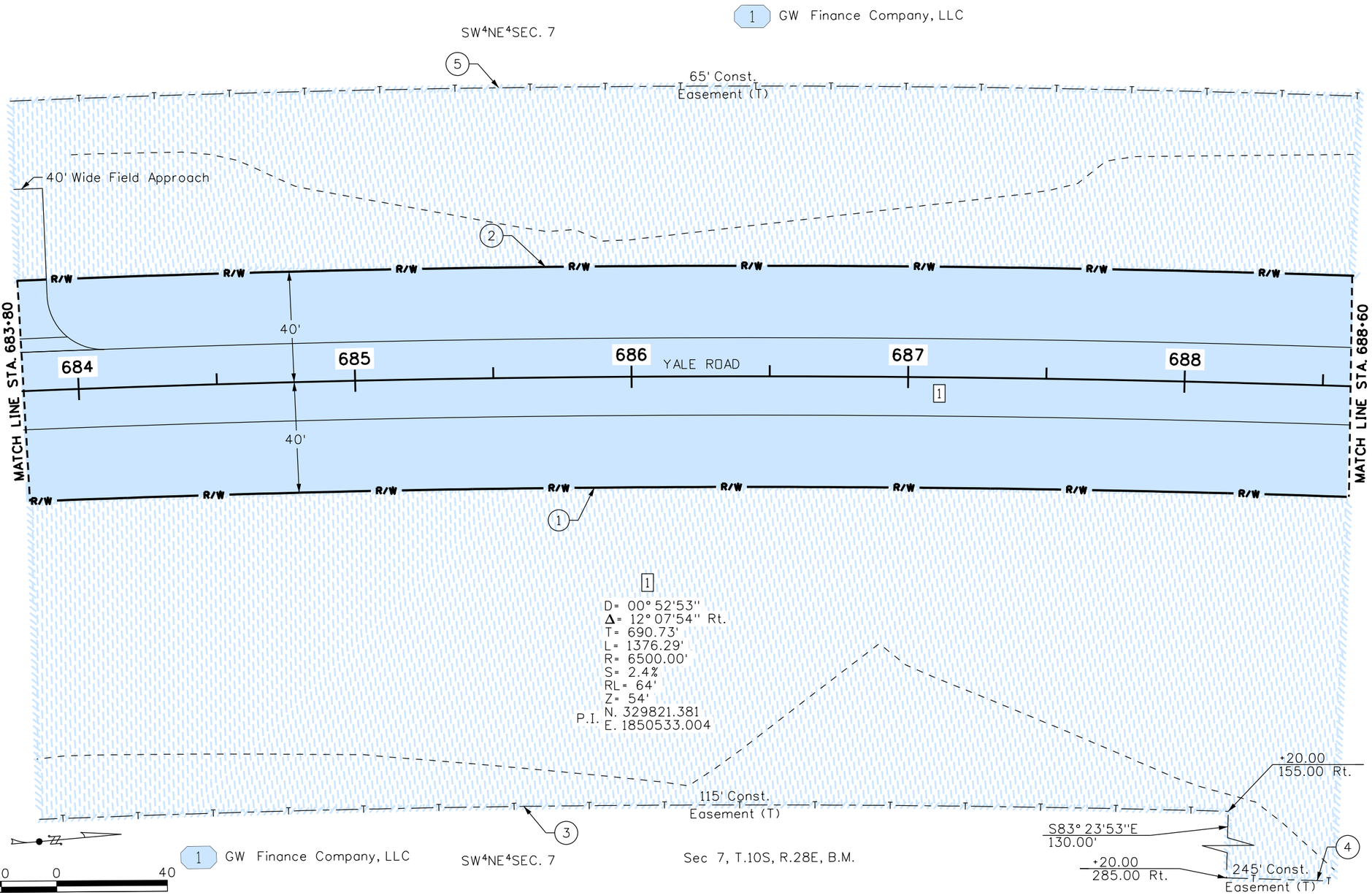
IDAHO TRANSPORTATION DEPARTMENT
CIVIL SCIENCE

PROJECT NO.
A019(637)

RIGHT OF WAY PLANS
STC-2837, YALE RD STG 4
STA 679+00 TO STA 683+80

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 5 OF 19

PROFESSIONAL LAND SURVEYOR
REGISTERED
13024
12/07/2022
STATE OF IDAHO
MITCH BARRERAS



1 Δ= 12° 07'54"
R= 6460.00'
T= 686.48'
L= 1367.82'
L.C. = 1365.27'
CH. BRNG.= S02° 05'30"W
LEFT

2 Δ= 12° 07'54"
R= 6540.00'
T= 694.98'
L= 1384.76'
L.C. = 1382.18'
CH. BRNG.= N02° 05'30"E
RIGHT

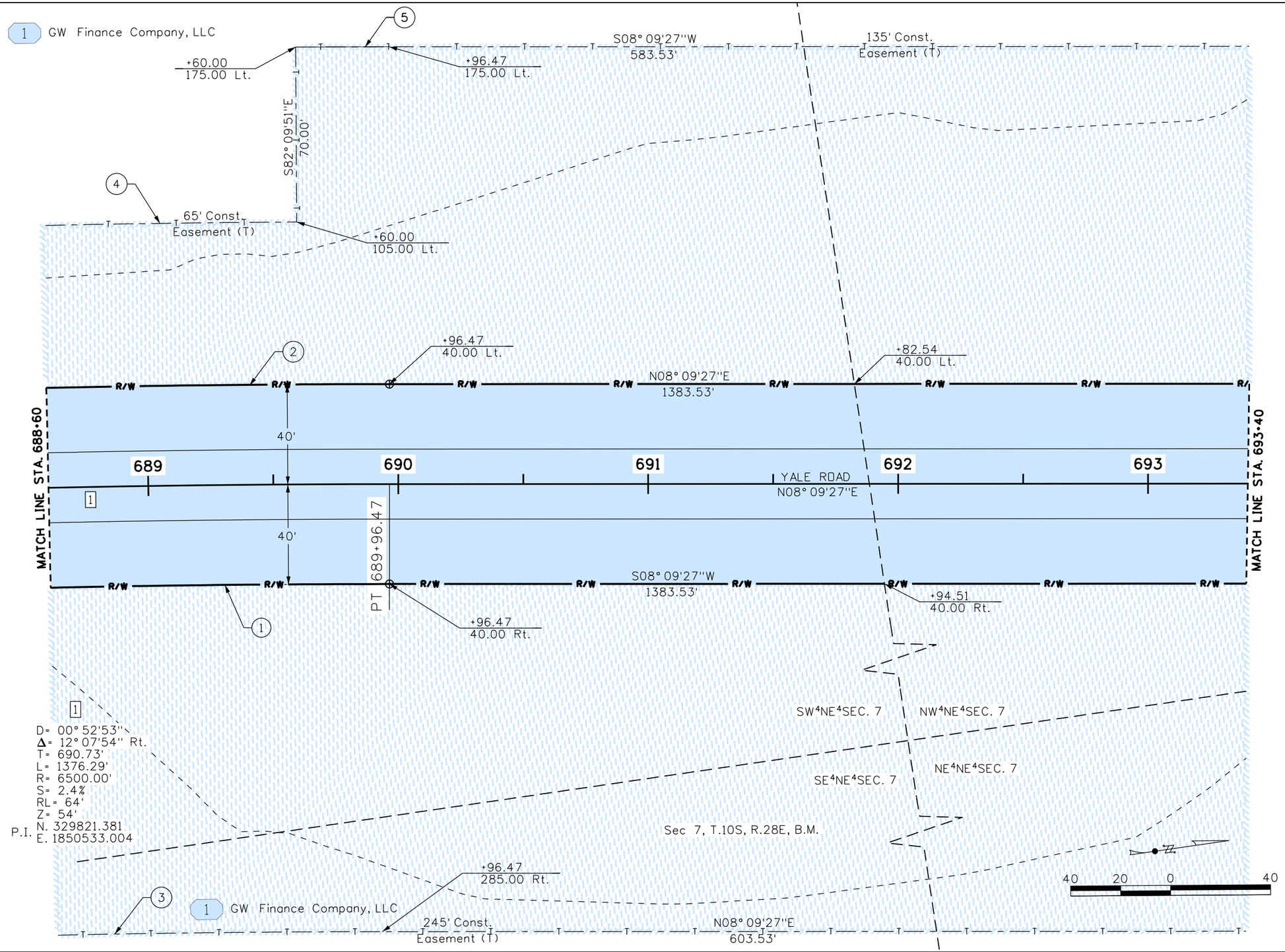
3 Δ= 07° 34'50"
R= 6345.00'
T= 420.36'
L= 839.49'
L.C. = 838.88'
CH. BRNG.= N02° 48'41"E
RIGHT

4 Δ= 01° 33'20"
R= 6215.00'
T= 84.37'
L= 168.74'
L.C. = 168.73'
CH. BRNG.= N07° 22'47"E
RIGHT

5 Δ= 06° 52'32"
R= 6605.00'
T= 396.78'
L= 792.60'
L.C. = 792.12'
CH. BRNG.= S04° 23'53"W
LEFT

REVISIONS				DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	RIGHT OF WAY PLANS	English
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED J. SOUTHWICK			A019(637)	STC-2837, YALE RD STG 4	COUNTY CASSIA
				DETAILED B. BINGHAM	CADD FILE NAME 19637_ROW_005			STA 683+80 TO STA 688+60	KEY NUMBER 19637
				DRAWING CHECKED J. SOUTHWICK	DRAWING DATE: DECEMBER 2022	CIVIL SCIENCE			SHEET 6 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 12/07/2022 STATE OF IDAHO MITCH BARRERAS



1. Δ= 12° 07'54"
   R= 6460.00'
   T= 686.48'
   L= 1367.82'
   L.C. = 1365.27'
   CH. BRNG.= S02° 05'30"W
   LEFT

2. Δ= 12° 07'54"
   R= 6540.00'
   T= 694.98'
   L= 1384.76'
   L.C. = 1382.18'
   CH. BRNG.= N02° 05'30"E
   RIGHT

3. Δ= 01° 33'20"
   R= 6215.00'
   T= 84.37'
   L= 168.74'
   L.C. = 168.73'
   CH. BRNG.= N07° 22'47"E
   RIGHT

4. Δ= 06° 52'32"
   R= 6605.00'
   T= 396.78'
   L= 792.60'
   L.C. = 792.12'
   CH. BRNG.= S04° 23'53"W
   LEFT

5. Δ= 00° 19'17"
   R= 6675.00'
   T= 18.73'
   L= 37.45'
   L.C. = 37.45'
   CH. BRNG.= S07° 59'48"W
   LEFT

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED J. SOUTHWICK
DETAILED B. BINGHAM
DRAWING CHECKED J. SOUTHWICK

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_ROW_006
DRAWING DATE: DECEMBER 2022

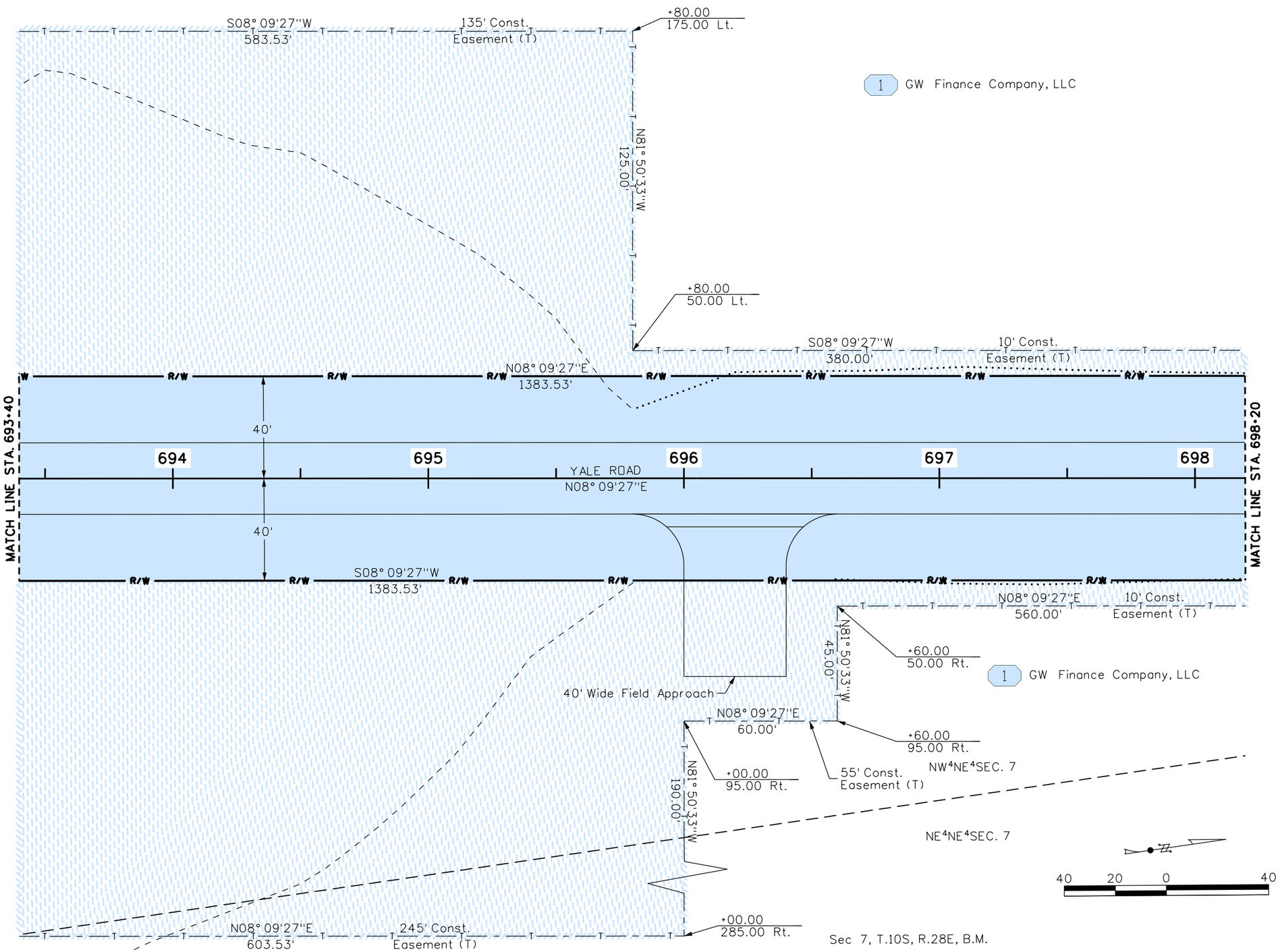
IDAHO TRANSPORTATION DEPARTMENT
CIVIL SCIENCE

PROJECT NO.
A019(637)

RIGHT OF WAY PLANS
STC-2837, YALE RD STG 4
STA 688+60 TO STA 693+40

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 7 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 12/07/2022 STATE OF IDAHO MITCH BARRERAS



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED J. SOUTHWICK
DETAILED B. BINGHAM
DRAWING CHECKED J. SOUTHWICK

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_ROW_007
DRAWING DATE: DECEMBER 2022

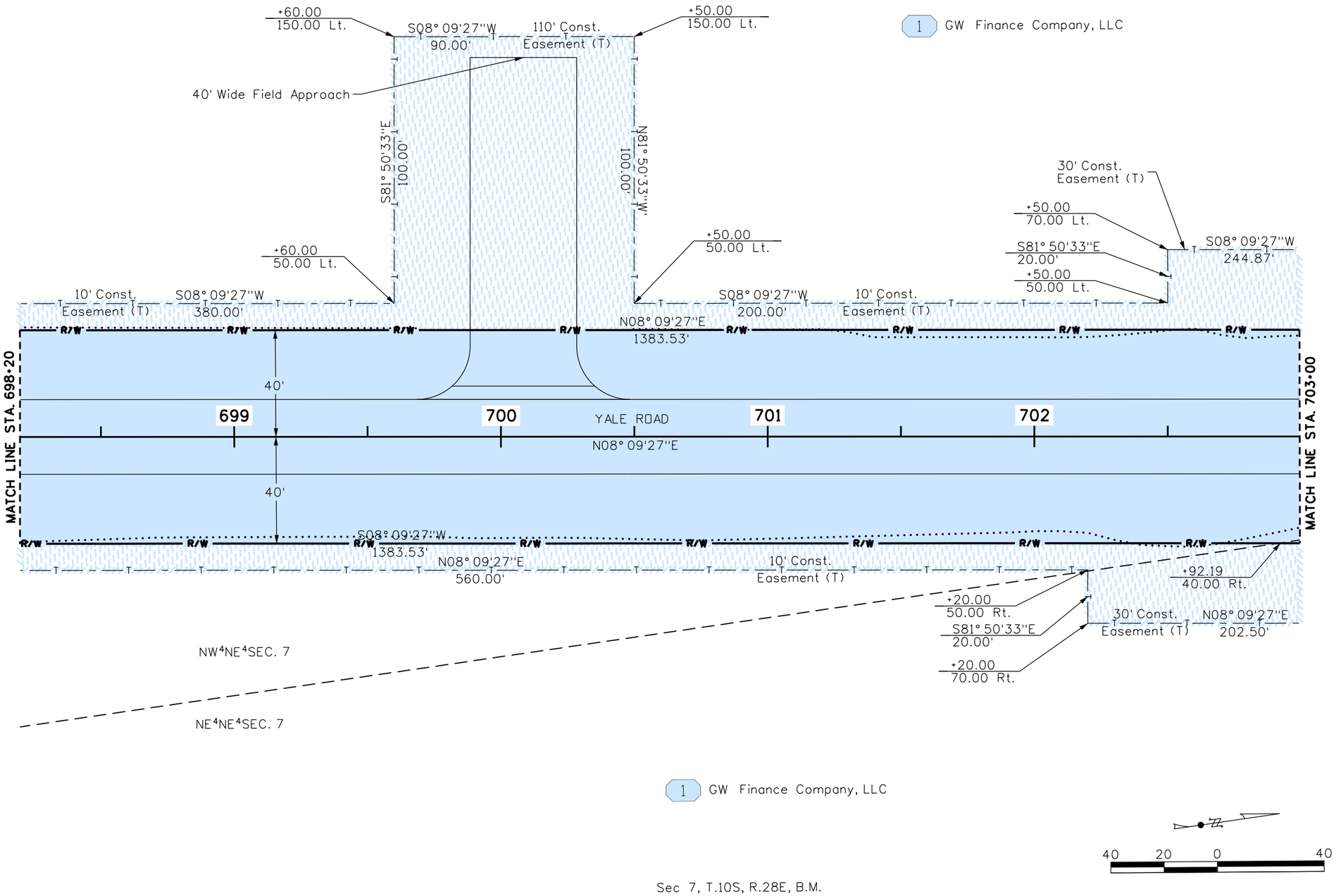
IDAHO TRANSPORTATION DEPARTMENT
CIVIL SCIENCE

PROJECT NO.
A019(637)

RIGHT OF WAY PLANS
STC-2837, YALE RD STG 4
STA 693+40 TO STA 698+20

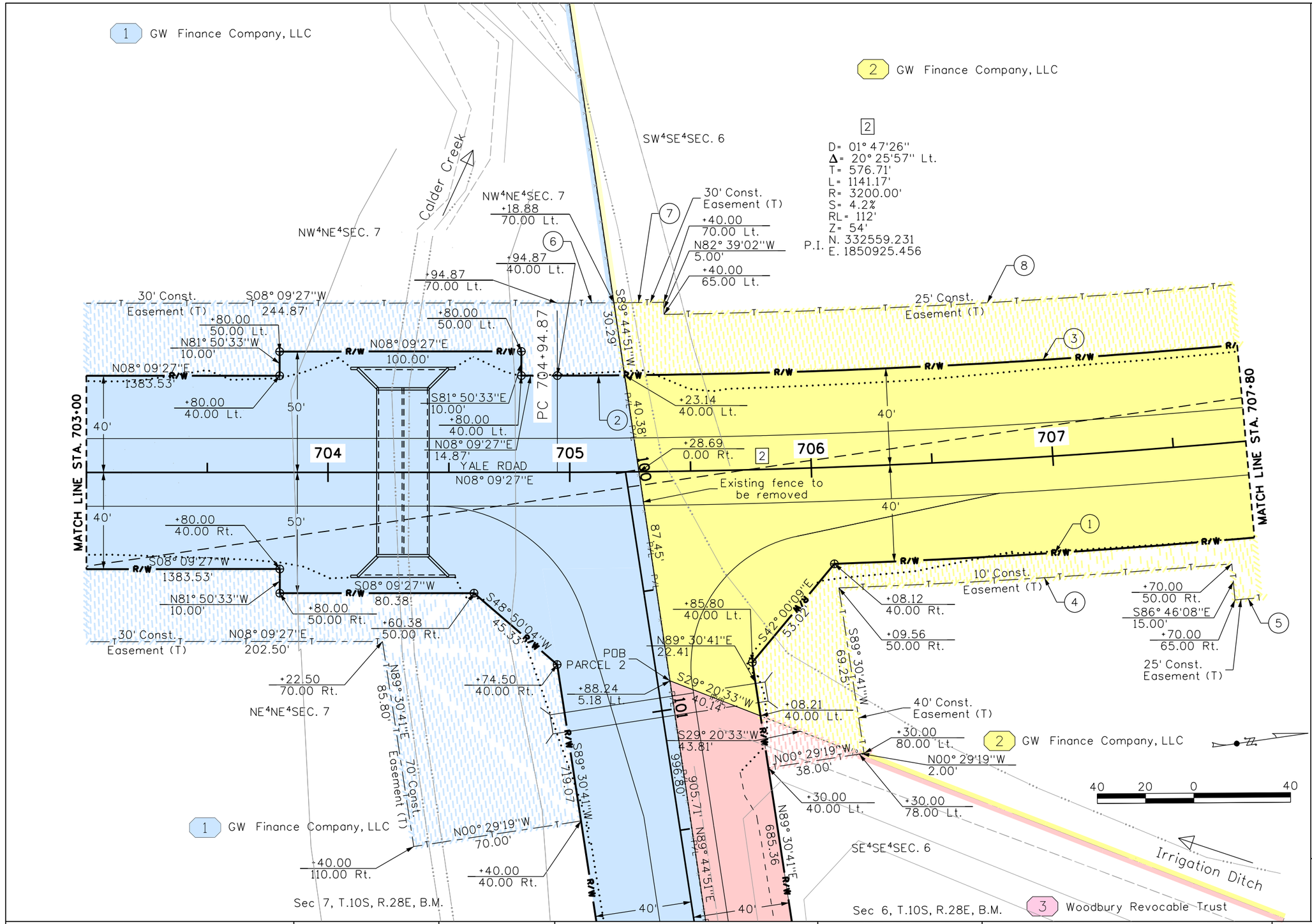
English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 8 OF 19

PROFESSIONAL LAND SURVEYOR
REGISTERED
13024
12/07/2022
STATE OF IDAHO
MITCH BARRERAS



REVISIONS				DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	RIGHT OF WAY PLANS	English
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED J. SOUTHWICK			A019(637)	STC-2837, YALE RD STG 4	COUNTY CASSIA
				DETAILED B. BINGHAM	CADD FILE NAME 19637_ROW_008			STA 698+20 TO STA 703+00	KEY NUMBER 19637
				DRAWING CHECKED J. SOUTHWICK	DRAWING DATE: DECEMBER 2022	CIVIL SCIENCE			SHEET 9 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 12/07/2022 STATE OF IDAHO MITCH BARRERAS



1. Δ= 18° 24'17" R= 3240.00' T= 524.91' L= 1040.77' L.C. = 1036.30' CH. BRNG.= S03° 04'22"E RIGHT
2. Δ= 00° 30'22" R= 3160.00' T= 13.96' L= 27.92' L.C. = 27.92' CH. BRNG.= N07° 54'15"E LEFT
3. Δ= 19° 55'35" R= 3160.00' T= 555.10' L= 1098.99' L.C. = 1093.46' CH. BRNG.= N02° 18'43"W LEFT
4. Δ= 02° 52'22" R= 3250.00' T= 81.49' L= 162.95' L.C. = 162.93' CH. BRNG.= N04° 40'03"E LEFT
5. Δ= 11° 50'12" R= 3265.00' T= 338.46' L= 674.51' L.C. = 673.31' CH. BRNG.= N02° 41'14"W LEFT
6. Δ= 00° 25'48" R= 3130.00' T= 11.74' L= 23.49' L.C. = 23.49' CH. BRNG.= S07° 56'33"W RIGHT
7. Δ= 00° 22'41" R= 3130.00' T= 10.33' L= 20.66' L.C. = 20.66' CH. BRNG.= S07° 32'18"W RIGHT
8. Δ= 19° 37'28" R= 3135.00' T= 542.20' L= 1073.78' L.C. = 1068.54' CH. BRNG.= S02° 27'47"E RIGHT

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED J. SOUTHWICK
DETAILED B. BINGHAM
DRAWING CHECKED J. SOUTHWICK

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_ROW_009
DRAWING DATE: DECEMBER 2022

IDAHO TRANSPORTATION DEPARTMENT
CIVIL SCIENCE

PROJECT NO.
A019(637)

RIGHT OF WAY PLANS
STC-2837, YALE RD STG 4
STA 703+00 TO STA 707+80

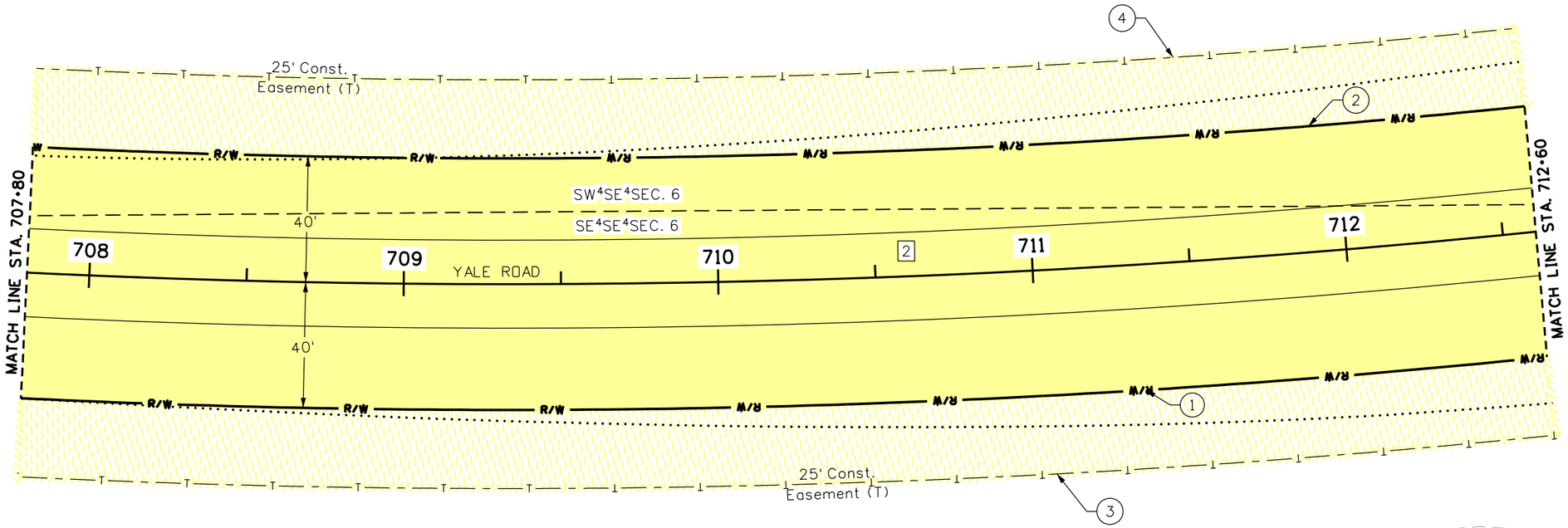
English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 10 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 12/07/2022 STATE OF IDAHO MITCH BARRERAS

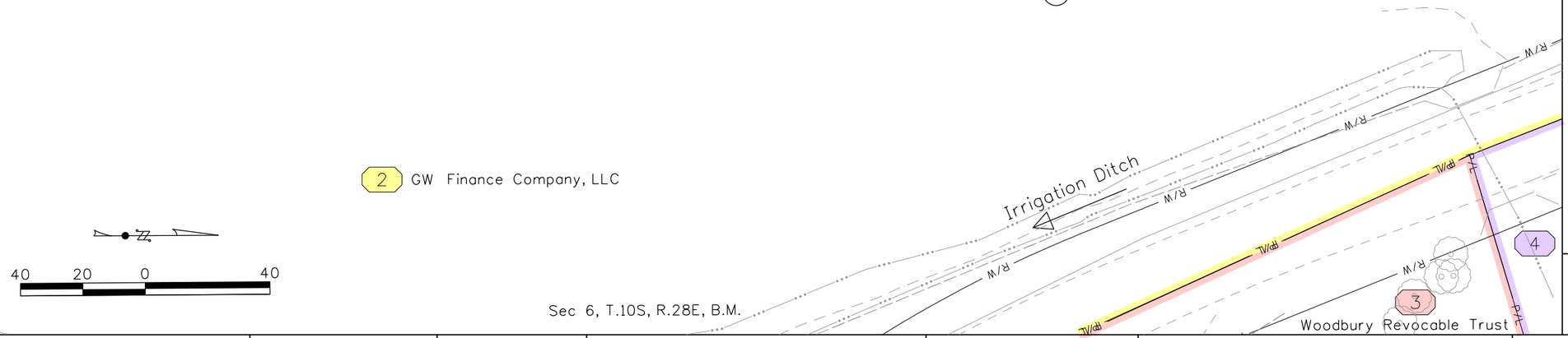
2 GW Finance Company, LLC

2

D= 01° 47'26"
Δ= 20° 25'57" Lt.
T= 576.71'
L= 1141.17'
R= 3200.00'
S= 4.2%
RL= 112'
Z= 54'
P.I. N. 332559.231
E. 1850925.456



2 GW Finance Company, LLC



40 20 0 40

Sec 6, T.10S, R.28E, B.M.

(1) Δ= 18° 24'17"
R= 3240.00'
T= 524.91'
L= 1040.77'
L.C. = 1036.30'
CH. BRNG.= S03° 04'22"E
RIGHT

(2) Δ= 19° 55'35"
R= 3160.00'
T= 555.10'
L= 1098.99'
L.C. = 1093.46'
CH. BRNG.= N02° 18'43"W
LEFT

(3) Δ= 11° 50'12"
R= 3265.00'
T= 338.46'
L= 674.51'
L.C. = 673.31'
CH. BRNG.= N02° 41'14"W
LEFT

(4) Δ= 19° 37'28"
R= 3135.00'
T= 542.20'
L= 1073.78'
L.C. = 1068.54'
CH. BRNG.= S02° 27'47"E
RIGHT

GW Finance Company, LLC

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED J. SOUTHWICK
DETAILED B. BINGHAM
DRAWING CHECKED J. SOUTHWICK

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_ROW_010
DRAWING DATE: DECEMBER 2022

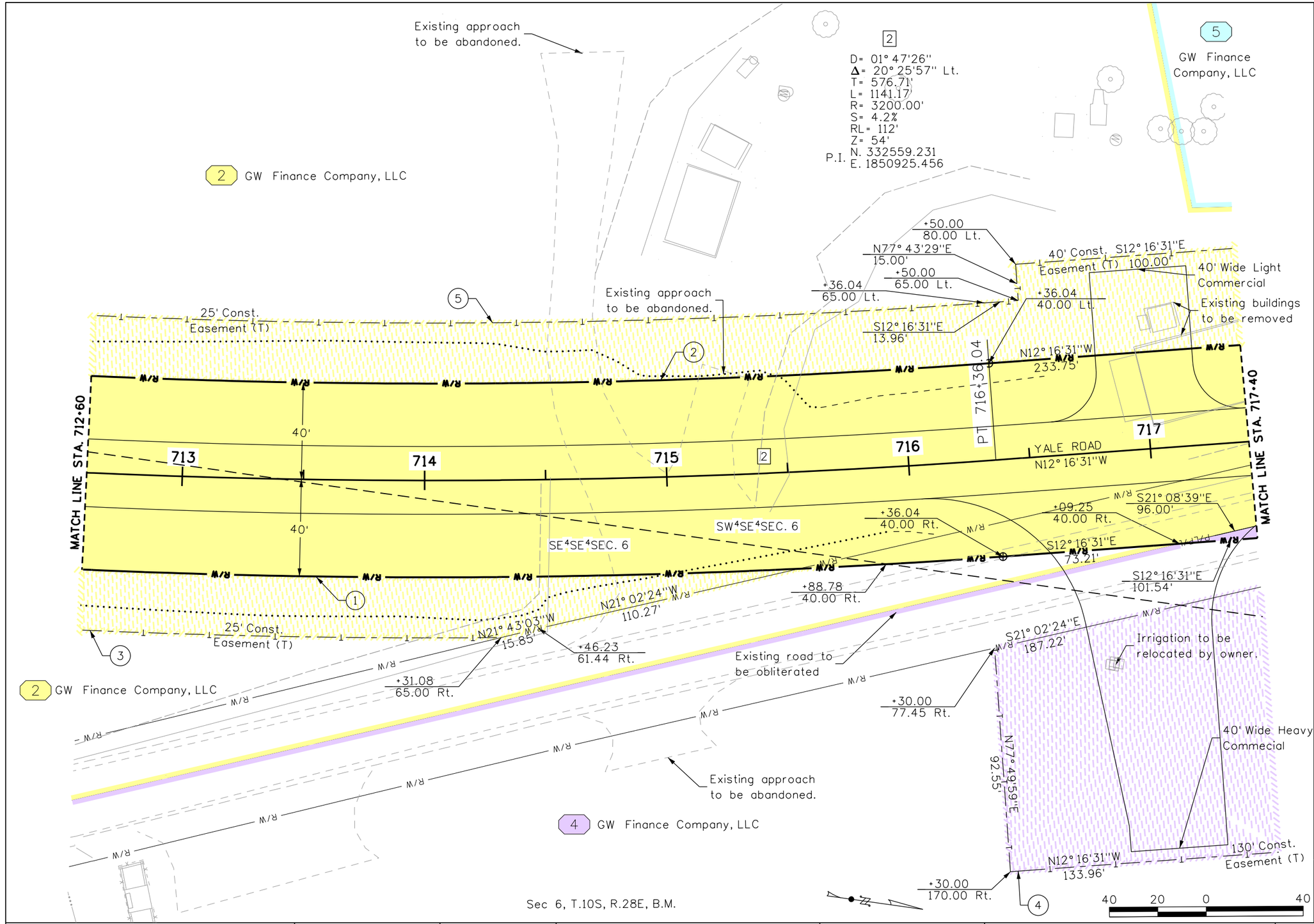
IDAHO TRANSPORTATION DEPARTMENT
CIVIL SCIENCE

PROJECT NO.
A019(637)

RIGHT OF WAY PLANS
STC-2837, YALE RD STG 4
STA 707+80 TO STA 712+60

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 11 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 12/07/2022 STATE OF IDAHO MITCH BARRERAS



1. Δ= 18° 24'17"
   R= 3240.00'
   T= 524.91'
   L= 1040.77'
   L.C. = 1036.30'
   CH. BRNG.= S03° 04'22"E
   RIGHT

2. Δ= 19° 55'35"
   R= 3160.00'
   T= 555.10'
   L= 1098.99'
   L.C. = 1093.46'
   CH. BRNG.= N02° 18'43"W
   LEFT

3. Δ= 11° 50'12"
   R= 3265.00'
   T= 338.46'
   L= 674.51'
   L.C. = 673.31'
   CH. BRNG.= N02° 41'14"W
   LEFT

4. Δ= 00° 06'29"
   R= 3370.00'
   T= 3.18'
   L= 6.36'
   L.C. = 6.36'
   CH. BRNG.= N12° 13'16"W
   LEFT

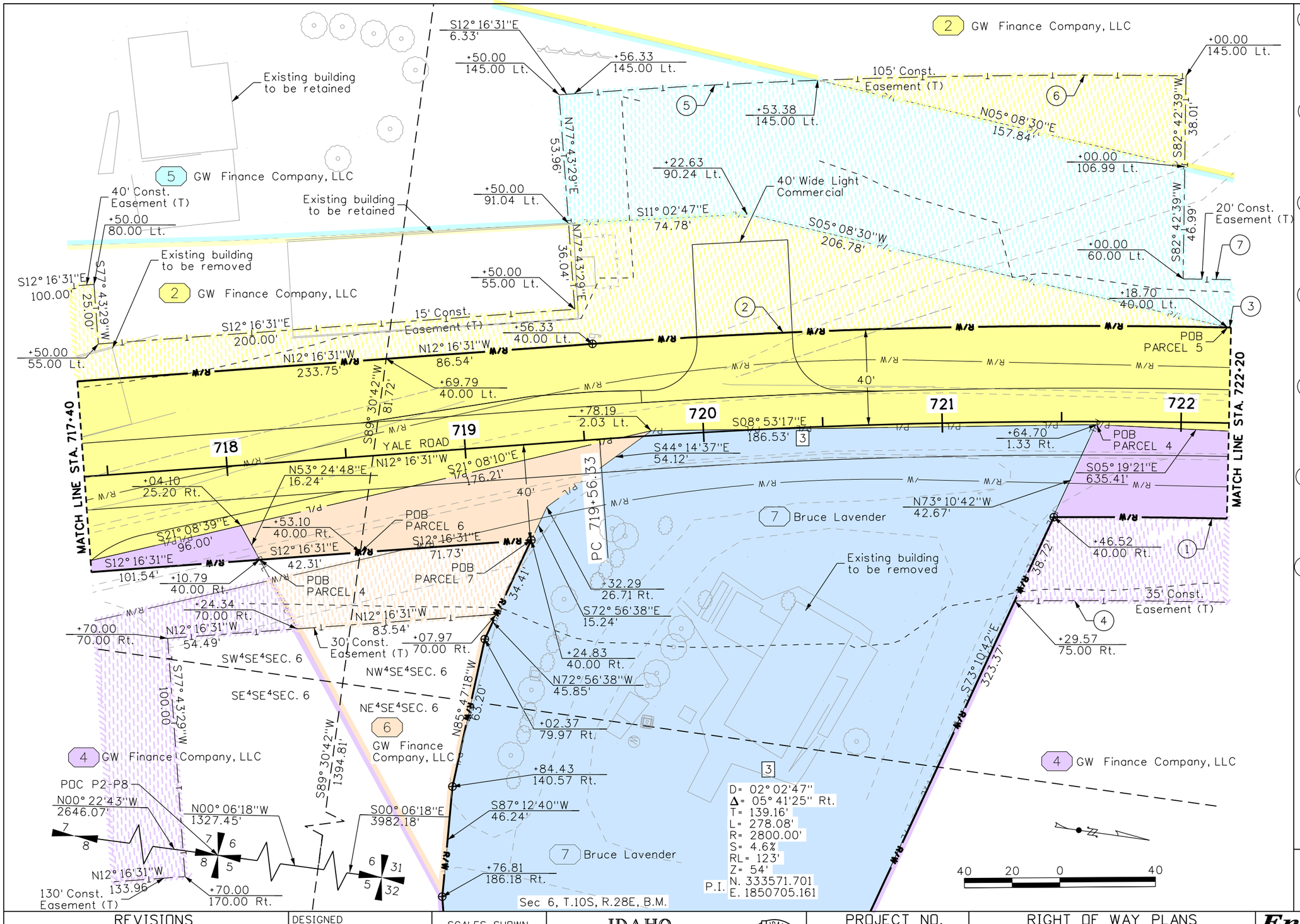
5. Δ= 19° 37'28"
   R= 3135.00'
   T= 542.20'
   L= 1073.78'
   L.C. = 1068.54'
   CH. BRNG.= S02° 27'47"E
   RIGHT

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT
DESIGN CHECKED J. SOUTHWICK		
DETAILED B. BINGHAM	CADD FILE NAME 19637_ROW_011	CIVIL SCIENCE
DRAWING CHECKED J. SOUTHWICK	DRAWING DATE: DECEMBER 2022	

PROJECT NO.	RIGHT OF WAY PLANS	English
A019(637)	STC-2837, YALE RD STG 4 STA 712+60 TO STA 717+40	COUNTY CASSIA KEY NUMBER 19637 SHEET 12 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 12/07/2022 STATE OF IDAHO MITCH BARRERAS



1 Δ= 01° 47'55"
R= 2760.00'
T= 43.32'
L= 86.64'
L.C. = 86.64'
CH. BRNG.= S07° 29'03"E
LEFT

2 Δ= 05° 22'08"
R= 2840.00'
T= 133.16'
L= 266.12'
L.C. = 266.02'
CH. BRNG.= N09° 35'27"W
RIGHT

3 Δ= 00° 06'32"
R= 2840.00'
T= 2.70'
L= 5.40'
L.C. = 5.40'
CH. BRNG.= N06° 51'07"W
RIGHT

4 Δ= 02° 08'44"
R= 2725.00'
T= 51.03'
L= 102.04'
L.C. = 102.03'
CH. BRNG.= N07° 39'27"W
RIGHT

5 Δ= 01° 59'09"
R= 2945.00
T= 51.04'
L= 102.07'
L.C. = 102.07'
CH. BRNG.= S11° 16'56"E
LEFT

6 Δ= 03° 00'01"
R= 2945.00'
T= 77.12'
L= 154.21'
L.C. = 154.19'
CH. BRNG.= S08° 47'21"E
LEFT

7 Δ= 00° 32'34"
R= 2860.00'
T= 13.54'
L= 27.09'
L.C. = 27.09'
CH. BRNG.= S07° 01'04"E
LEFT

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED J. SOUTHWICK	
DETAILED B. BINGHAM	CADD FILE NAME 19637_ROW_012
DRAWING CHECKED J. SOUTHWICK	DRAWING DATE: DECEMBER 2022

IDAHO TRANSPORTATION DEPARTMENT

CIVIL SCIENCE

PROJECT NO.

A019(637)

RIGHT OF WAY PLANS

STC-2837, YALE RD STG 4

STA 717+40 TO STA 722+20

English

COUNTY CASSIA

KEY NUMBER 19637

SHEET 13 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 1/19/2023 STATE OF IDAHO MITCH BARRERAS

MATCH LINE STA. 717+40

718

719

720

721

722

MATCH LINE STA. 722+20

YALE ROAD

N12° 16'31"W

+53.10
40.00 Rt.

N12° 16'31"W
71.73'

POB
PARCEL 7

+78.19
2.03 Lt.

PC 719+56.33

40'

34.41'

N44° 14'37"W
54.12'

N08° 53'17"W
186.53'

3

+64.70
1.33 Rt.

S73° 10'42"E
42.67'

+46.52
40.00 Rt.

+32.29
26.71 Rt.

N72° 56'38"W
15.24'

Existing building
to be removed

+07.97
70.00 Rt.

+24.83
40.00 Rt.

N72° 56'38"W
45.85'

SW¼SE¼SEC. 6

NW¼SE¼SEC. 6

SE¼SE¼SEC. 6

NE¼SE¼SEC. 6

6
GW Finance
Company, LLC

N85° 47'18"W
83.20'

+02.37
79.97 Rt.

S89° 30'42"W
1394.81'

+84.43
140.57 Rt.

S87° 12'40"W
46.24'

+76.81
186.18 Rt.

S77° 40'57"W
13.50'

+76.82
199.68 Rt.

4 GW Finance Company, LLC

7 Bruce Lavender

S37° 25'49"W
169.45'

S73° 10'42"E
323.37'

4 GW Finance Company, LLC

+90.41
328.74 Rt.

3
D= 02° 02'47"
Δ= 05° 41'25" Rt.
T= 139.16'
L= 278.08'
R= 2800.00'
S= 4.6%
RL= 123'
Z= 54'
P.I. N. 333571.701
E. 1850705.161

POC P2-P8
N00° 22'43"W
2646.07'

N00° 06'18"W
1327.45'

S00° 06'18"E
3982.18'

7 8 7 6 8 5 6 31 5 32

40 20 0 40

Sec 6, T.10S, R.28E, B.M.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED J. SOUTHWICK	
DETAILED B. BINGHAM	CADD FILE NAME 19637_ROW_013a
DRAWING CHECKED J. SOUTHWICK	DRAWING DATE: DECEMBER 2022

IDAHO TRANSPORTATION DEPARTMENT

CIVIL SCIENCE

PROJECT NO.

A019(637)

RIGHT OF WAY PLANS

STC-2837, YALE RD STG 4

STA 717+40 TO STA 722+20

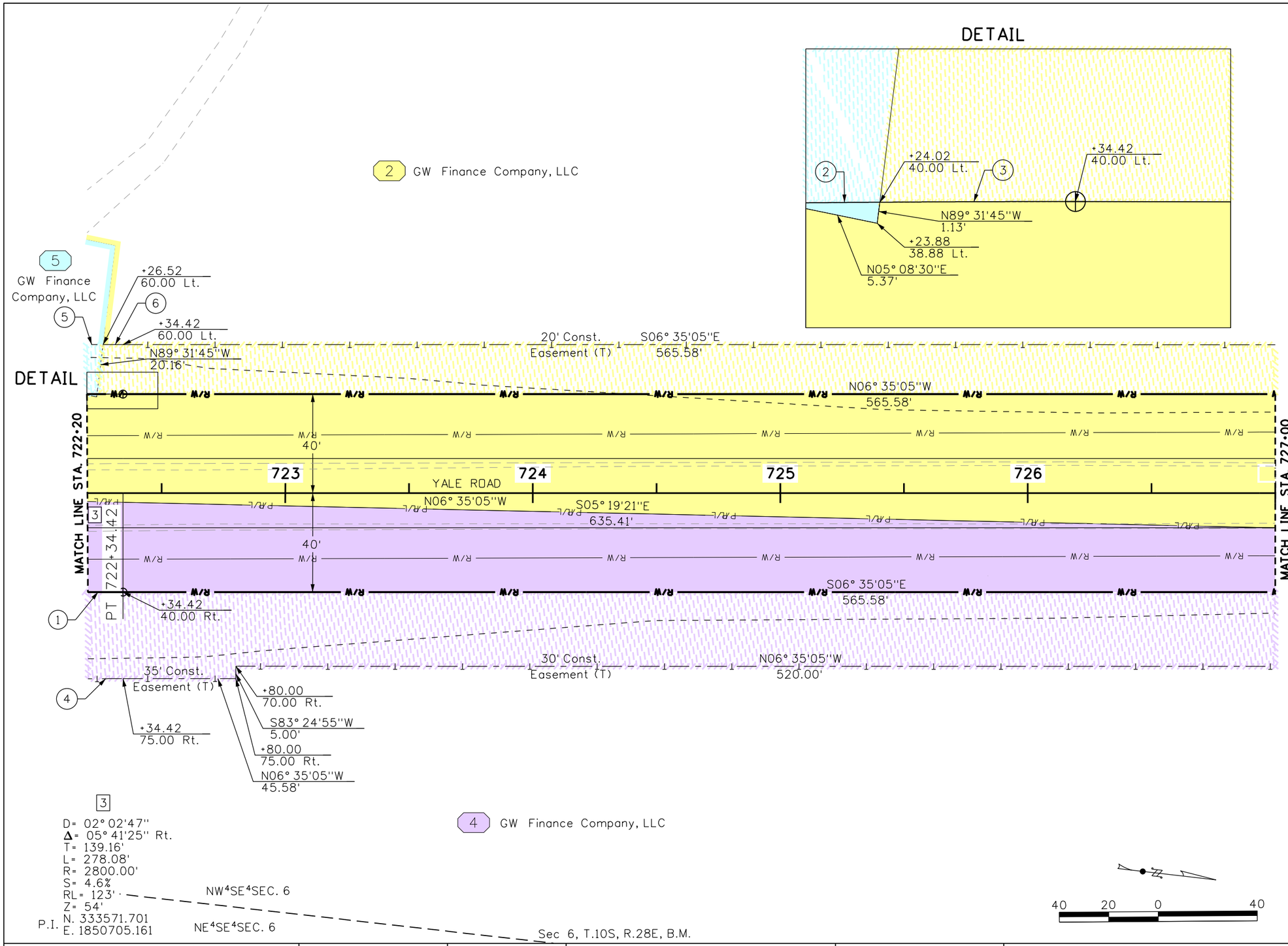
English

COUNTY CASSIA

KEY NUMBER 19637

SHEET 14 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 1/19/2023 STATE OF IDAHO MITCH BARRERAS



1 Δ= 01° 47'55"
R= 2760.00'
T= 43.32'
L= 86.64'
L.C. = 86.64'
CH. BRNG.= S07° 29'03"E
LEFT

2 Δ= 00° 06'32"
R= 2840.00'
T= 2.70'
L= 5.40'
L.C. = 5.40'
CH. BRNG.= N06° 51'07"W
RIGHT

3 Δ= 00° 12'46"
R= 2840.00'
T= 5.27'
L= 10.54'
L.C. = 10.54'
CH. BRNG.= N06° 41'28"W
RIGHT

4 Δ= 02° 08'44"
R= 2725.00'
T= 51.03'
L= 102.04'
L.C. = 102.03'
CH. BRNG.= N07° 39'27"W
RIGHT

5 Δ= 00° 32'34"
R= 2860.00'
T= 13.54'
L= 27.09'
L.C. = 27.09'
CH. BRNG.= S07° 01'04"E
LEFT

6 Δ= 00° 09'42"
R= 2860.00'
T= 4.03'
L= 8.07'
L.C. = 8.07'
CH. BRNG.= S06° 39'56"E
LEFT

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED J. SOUTHWICK
DETAILED B. BINGHAM
DRAWING CHECKED J. SOUTHWICK

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_ROW_013
DRAWING DATE: DECEMBER 2022

IDAHO TRANSPORTATION DEPARTMENT
CIVIL SCIENCE

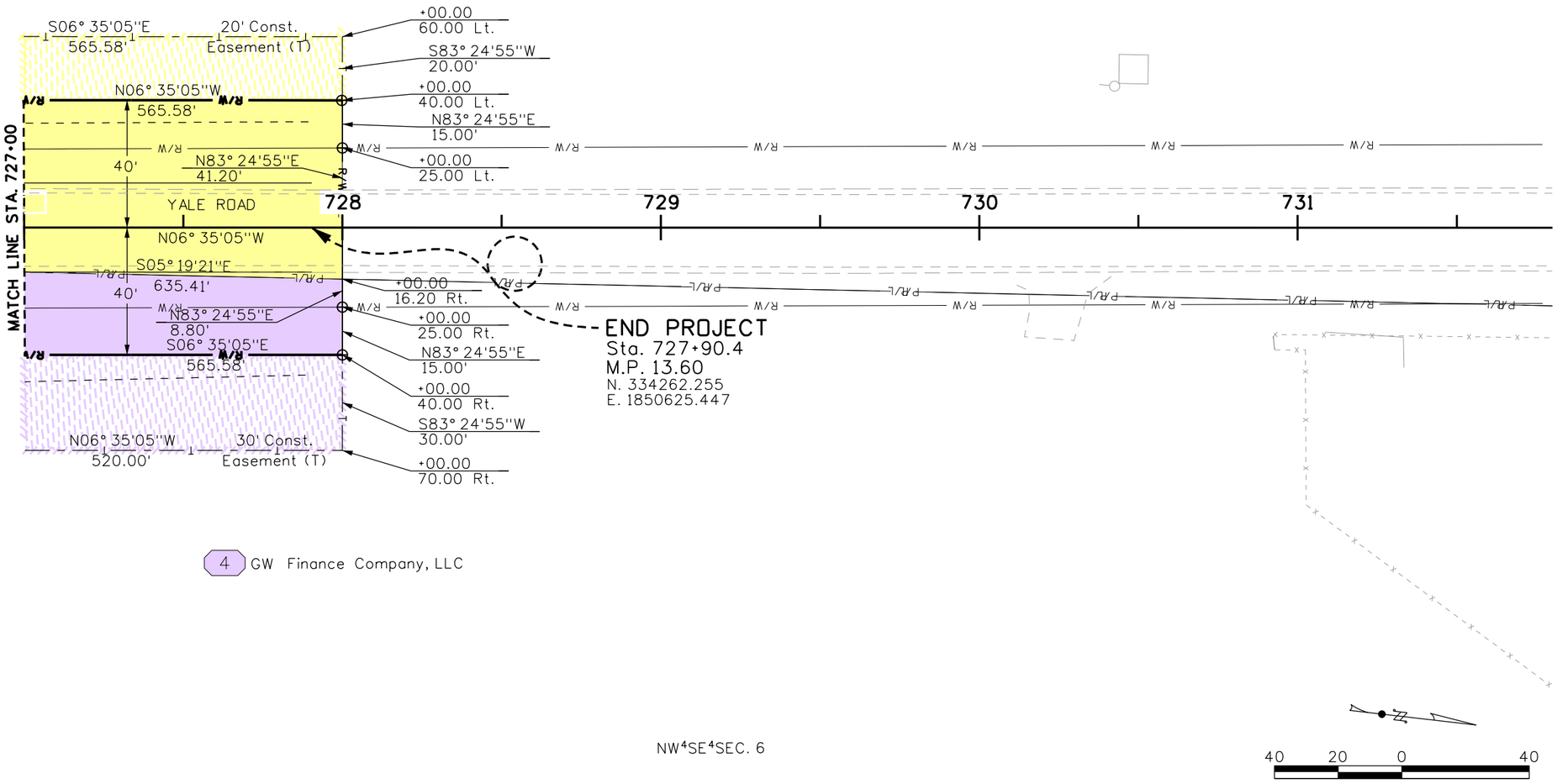
PROJECT NO.
A019(637)

RIGHT OF WAY PLANS
STC-2837, YALE RD STG 4
STA 722+20 TO STA 727+00

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 15 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 12/07/2022 STATE OF IDAHO MITCH BARRERAS

2 GW Finance Company, LLC



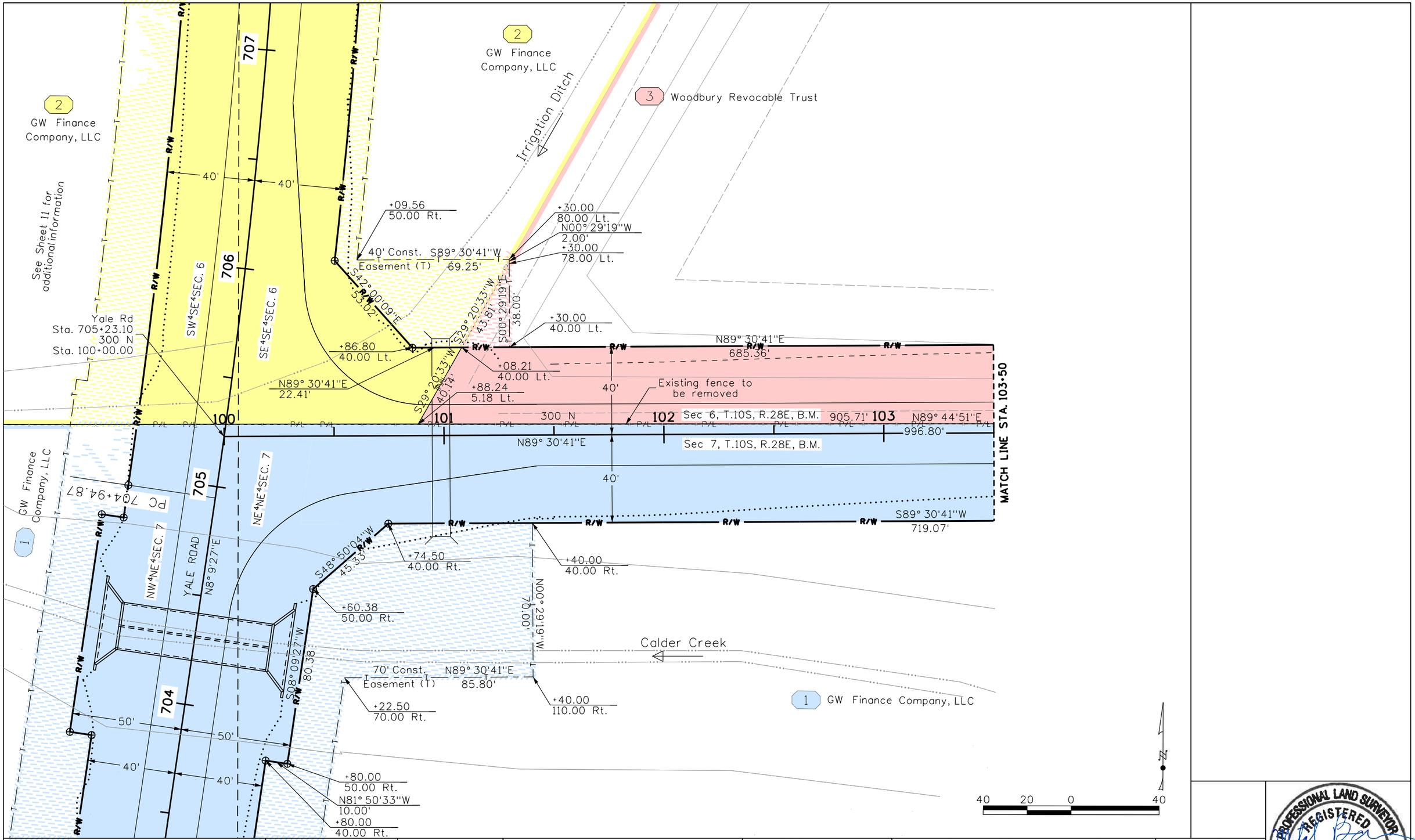
4 GW Finance Company, LLC

NW⁴SE⁴SEC. 6

Sec 6, T.10S, R.28E, B.M.

REVISIONS				DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	RIGHT OF WAY PLANS	English
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED J. SOUTHWICK			A019(637)	STC-2837, YALE RD STG 4	COUNTY CASSIA
				DETAILED B. BINGHAM	CADD FILE NAME 19637_ROW_014	CIVIL SCIENCE		STA 727+00 TO STA 731+80	KEY NUMBER 19637
				DRAWING CHECKED J. SOUTHWICK	DRAWING DATE: DECEMBER 2022				SHEET 16 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 12/07/2022 STATE OF IDAHO MITCH BARRERAS



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED J. SOUTHWICK	
DETAILED B. BINGHAM	CADD FILE NAME 19637_ROW_015
DRAWING CHECKED J. SOUTHWICK	DRAWING DATE: DECEMBER 2022

IDAHO TRANSPORTATION DEPARTMENT

CIVIL SCIENCE

PROJECT NO.

A019(637)

RIGHT OF WAY PLANS

STC-2837, YALE RD STG 4

STA 100+00 TO STA 103+50

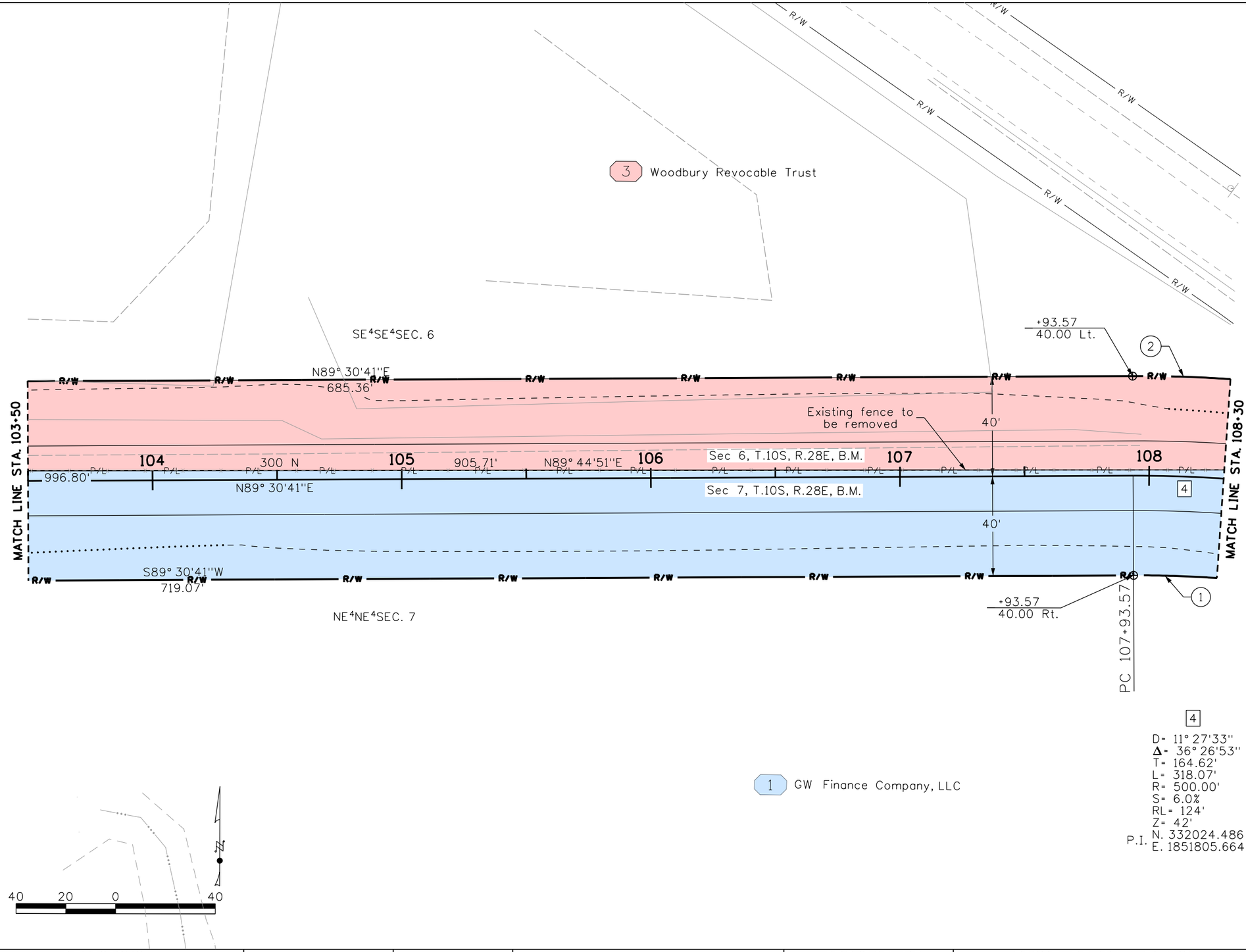
English

COUNTY CASSIA

KEY NUMBER 19637

SHEET 17 OF 19

PROFESSIONAL LAND SURVEYOR
REGISTERED
13024
12/07/2022
STATE OF IDAHO
MITCH BARRERAS



1 Δ= 36° 26'53"
R= 460.00'
T= 151.45'
L= 292.62'
L.C. = 287.71'
CH. BRNG.= N72° 15'52"W
LEFT

2 Δ= 21° 46'53"
R= 540.00'
T= 103.90'
L= 205.28'
L.C. = 204.05'
CH. BRNG.= S79° 35'52"E
RIGHT

4
D= 11° 27'33"
Δ= 36° 26'53" Rt.
T= 164.62'
L= 318.07'
R= 500.00'
S= 6.0%
RL= 124'
Z= 42'
P.I. N. 332024.486
E. 1851805.664

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED J. SOUTHWICK
DETAILED B. BINGHAM
DRAWING CHECKED J. SOUTHWICK

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_ROW_016
DRAWING DATE: DECEMBER 2022

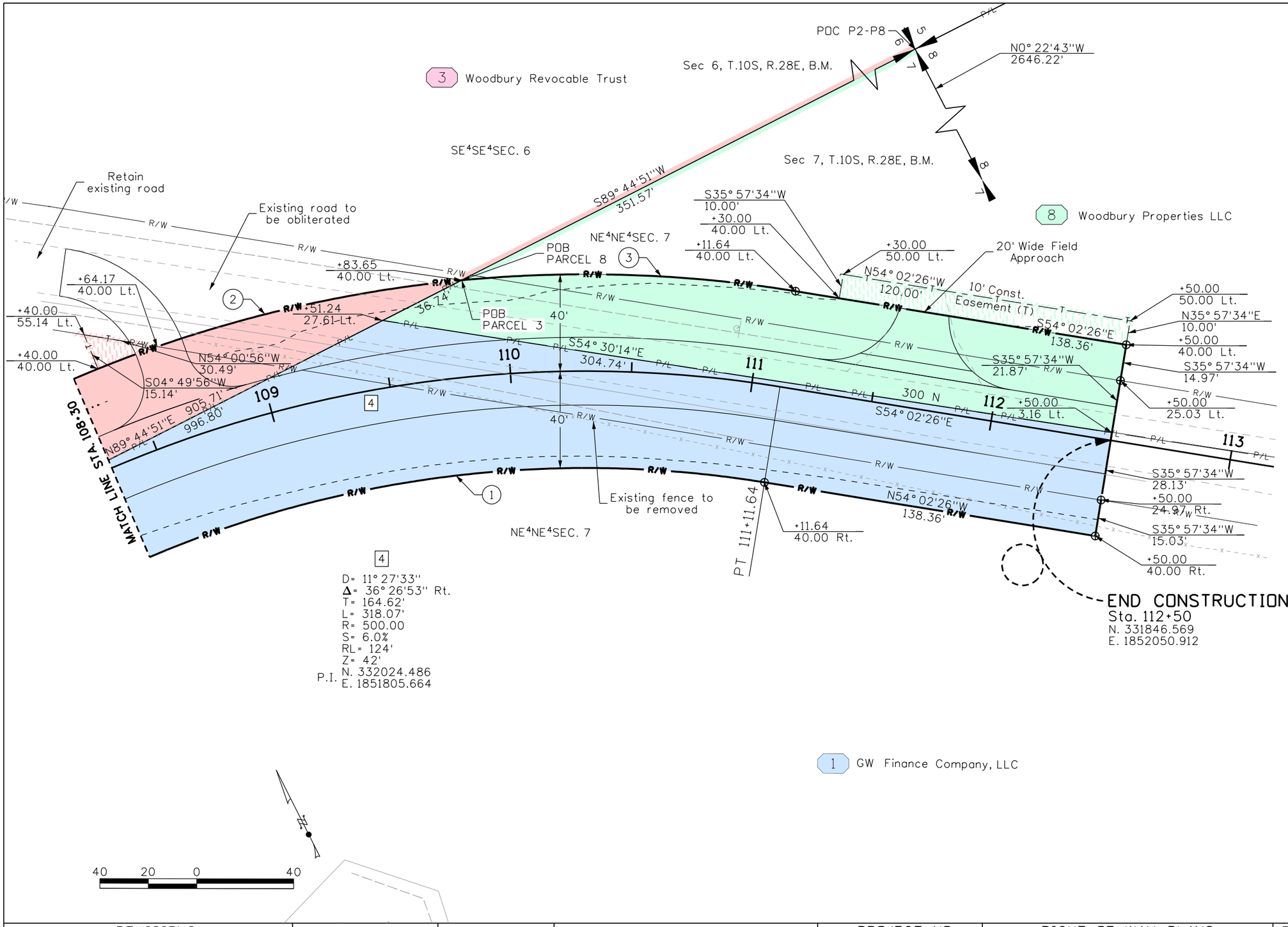
IDAHO TRANSPORTATION DEPARTMENT
CIVIL SCIENCE

PROJECT NO.
A019(637)

RIGHT OF WAY PLANS
STC-2837, YALE RD STG 4
STA 103+50 TO STA 108+30

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 18 OF 19

PROFESSIONAL LAND SURVEYOR
REGISTERED
13024
12/07/2022
STATE OF IDAHO
MITCH BARRERAS



1 Δ= 36° 26'53"
R= 460.00'
T= 151.45'
L= 292.62'
L.C. = 287.71'
CH. BRNG.= N72° 15'52"W
LEFT

2 Δ= 21° 46'53"
R= 540.00'
T= 103.90'
L= 205.28'
L.C. = 204.05'
CH. BRNG.= S79° 35'52"E
RIGHT

3 Δ= 14° 40'00"
R= 540.00'
T= 69.49'
L= 138.23'
L.C. = 137.85'
CH. BRNG.= S61° 22'26"E
RIGHT

4
D= 11° 27'33"
Δ= 36° 26'53" Rt.
T= 164.62'
L= 318.07'
R= 500.00
S= 6.0%
RL= 124'
Z= 42'
P.I. N. 332024.486
E. 1851805.664

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. BINGHAM
DESIGN CHECKED J. SOUTHWICK
DETAILED B. BINGHAM
DRAWING CHECKED J. SOUTHWICK

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 19637_ROW_017
DRAWING DATE: DECEMBER 2022

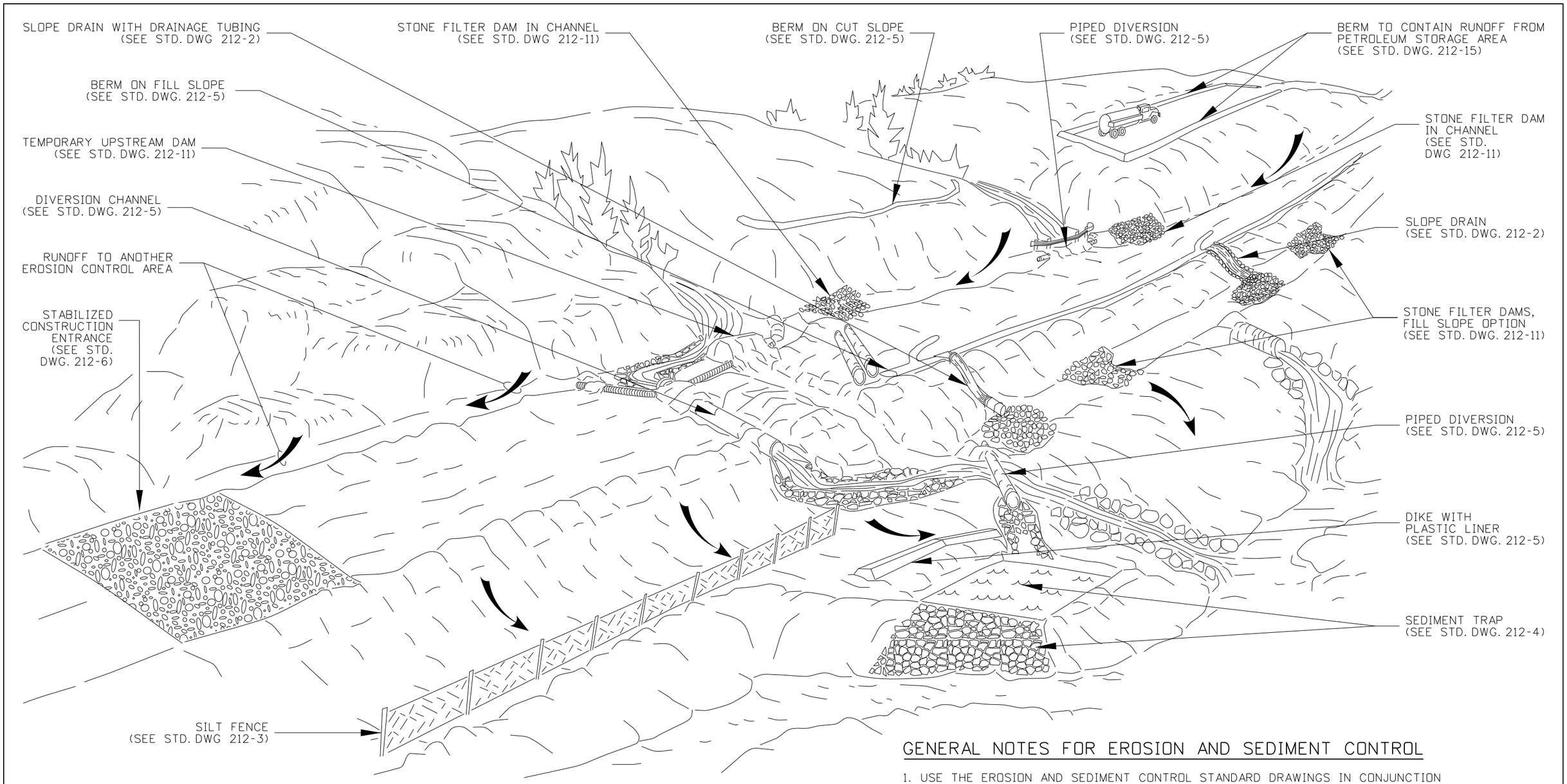
IDAHO TRANSPORTATION DEPARTMENT
CIVIL SCIENCE

PROJECT NO.
A019(637)

RIGHT OF WAY PLANS
STC-2837, YALE RD STG 4
STA 108+30 TO STA 112+50

English
COUNTY CASSIA
KEY NUMBER 19637
SHEET 19 OF 19

PROFESSIONAL LAND SURVEYOR REGISTERED 13024 12/07/2022 STATE OF IDAHO MITCH BARRERAS



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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER ORIGINAL SIGNED AND DATED MARCH 18, 2021 STATE OF IDAHO 13683

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

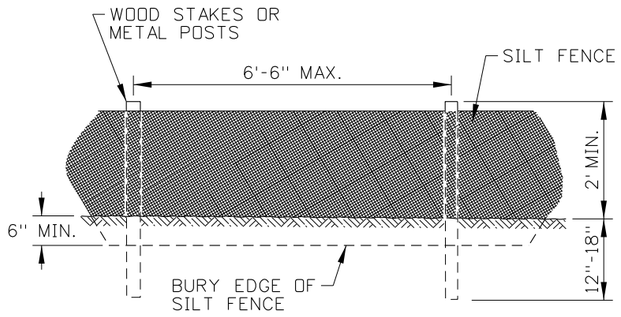
STANDARD DRAWING

EROSION AND SEDIMENT CONTROL EXAMPLE APPLICATIONS

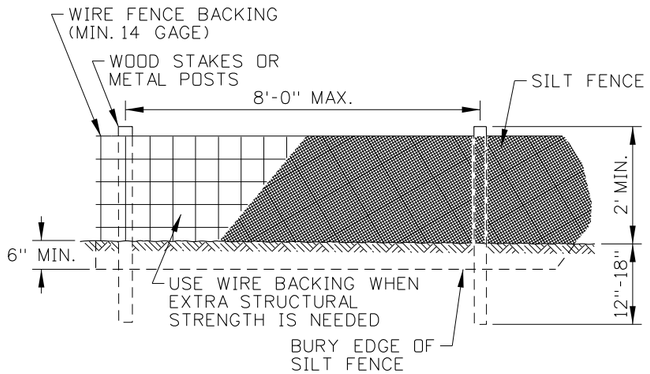
English

STANDARD DRAWING NO. 212-1

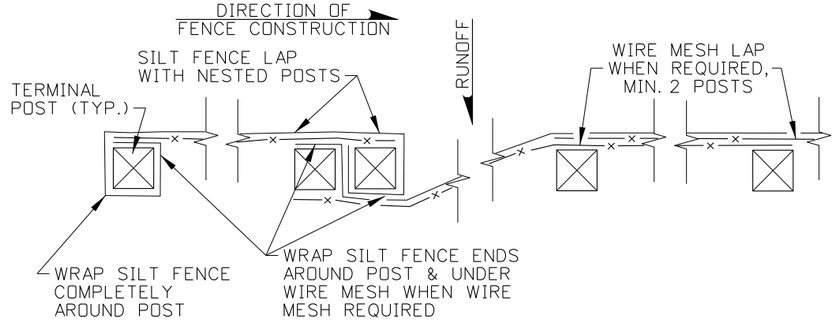
SHEET 1 OF 1



SILT FENCE (NO WIRE BACKING)



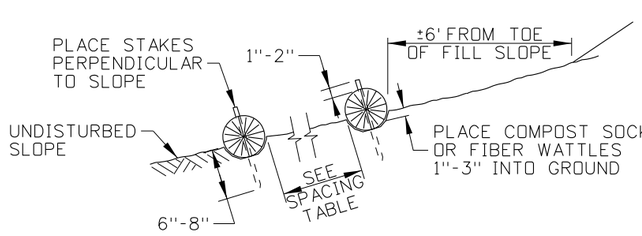
SILT FENCE (WIRE BACKING)



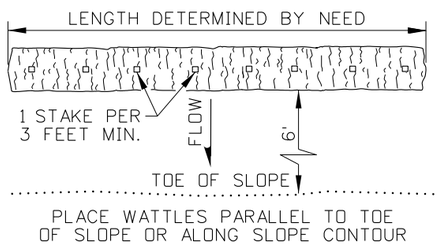
SILT FENCE LAP DETAIL

FIBER WATTLE & COMPOST SOCK SPACING TABLE				
SLOPE	WATTLE SIZE			
	6"	9"	12"	20"
1:1	5 FT	10 FT	15 FT	20 FT
2:1	10 FT	20 FT	30 FT	40 FT
3:1	15 FT	30 FT	45 FT	60 FT
4:1 OR FLATTER	20 FT	40 FT	60 FT	80 FT

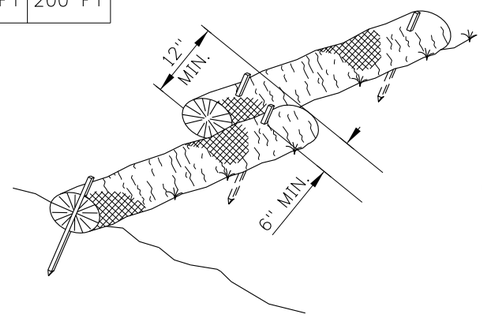
SILT FENCE SPACING TABLE			
SLOPE	SOIL TYPE		
	SILTY	CLAYS	SANDY
1:1	50 FT	75 FT	100 FT
2:1	75 FT	100 FT	125 FT
4:1	100 FT	125 FT	150 FT
10:1 OR FLATTER	125 FT	150 FT	200 FT



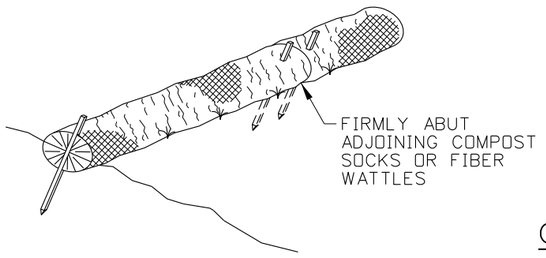
COMPOST SOCK AND FIBER WATTLE
SIDE VIEW



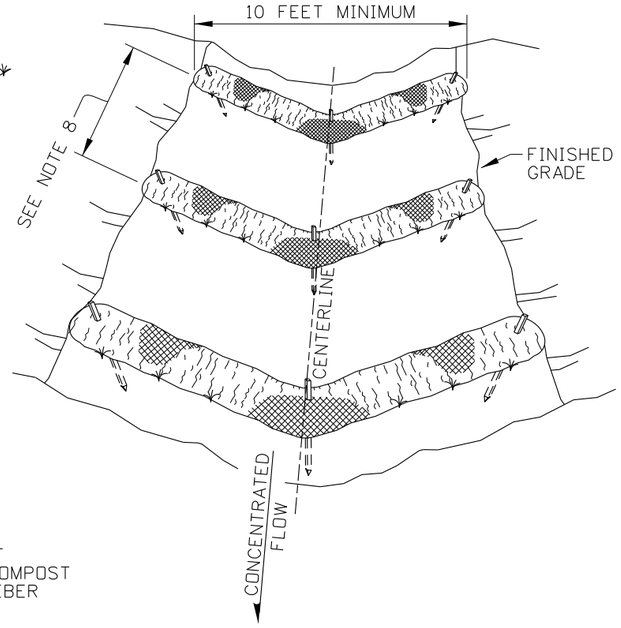
COMPOST SOCK AND FIBER WATTLE
PLAN VIEW



COMPOST SOCK AND FIBER WATTLE OVERLAPPING DETAIL



COMPOST SOCK AND FIBER WATTLE ABUTTING DETAIL



COMPOST SOCK AND FIBER WATTLE TEMPORARY CHECK DAM DETAIL

NOTES

1. SEE THE GENERAL NOTES FOR EROSION CONTROL STANDARD DRAWINGS ON 212-1.
2. THE NEED FOR TEMPORARY SEDIMENT CONTROL DEVICES ARE DETERMINED BY SITE DESIGN. SPACE SILT FENCES, COMPOST SOCKS, AND FIBER WATTLES IN ACCORDANCE WITH THE SILT FENCE SPACING TABLE AND FIBER WATTLE & COMPOST SOCK SPACING TABLE.
3. INSTALL TEMPORARY SEDIMENT CONTROL BARRIERS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND SPECIFICATIONS. THE DIMENSIONS SHOWN ARE GENERAL GUIDELINES.
4. PLACE SEDIMENT BARRIERS TO FOLLOW THE SLOPE CONTOURS. USE EITHER METAL POSTS OR WOOD STAKES.
5. ENSURE RUNOFF PASSES THROUGH THE SILT FENCE AND NOT AROUND THE FENCE.
6. GROUND SILT FENCES WITH WIRE MESH IN ACCORDANCE WITH THE GROUNDING DETAIL SHOWN ON STANDARD DRAWING 610-1.
7. EXTEND OR JOIN SILT FENCE USING SILT FENCE LAP WITH NESTED POSTS.
8. SPACE CHECK DAMS ACCORDING TO THE HEIGHT OF THE DAM AND THE SLOPE OF THE CHANNEL SO THE BACKWATER FROM THE DOWNSTREAM DAM REACHES THE TOE OF THE UPSTREAM DAM.
9. ON SLOPES, TURN THE ENDS OF EACH ROW OF COMPOST SOCKS AND FIBER WATTLES UPSLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE SOCK OR WATTLE.
10. REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF SILT FENCES, COMPOST SOCKS, AND FIBER WATTLES WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE BARRIER.
11. DRAWING NOT TO SCALE.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 ORIGINAL SIGNED MARCH 18, 2021 RYAN D. LANCASTER

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	09-93	MSM	6	01-13	RDL			
2	12-94	MSM	7	03-21	TWF			
3	06-96	GFK						
4	10-10	KEH						
5	10-11	KEH						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 212-03_0421.dgn

DRAWING DATE: APRIL, 1993

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN

DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

TEMPORARY EROSION AND SEDIMENT CONTROL

SILT FENCE, FIBER WATTLE, AND COMPOST SOCK

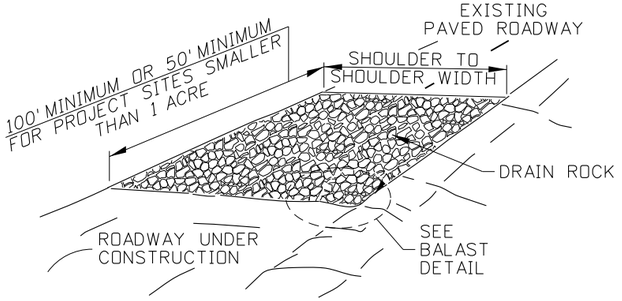
REQUIRES STD. DWG. 212-1

English

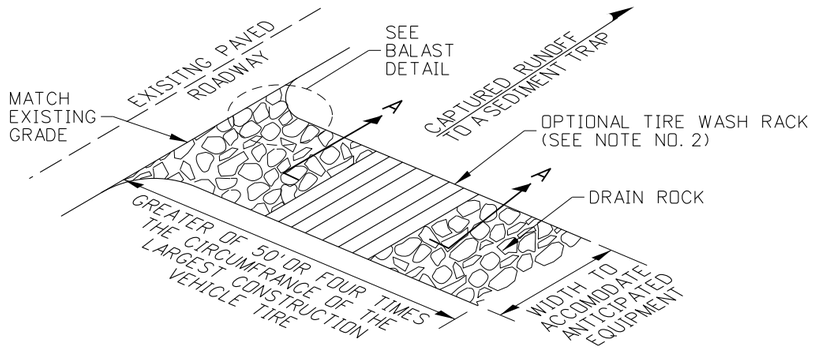
STANDARD DRAWING NO.

212-3

SHEET 1 OF 1

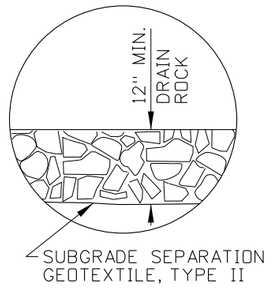


IN-LINE WITH HIGHWAY

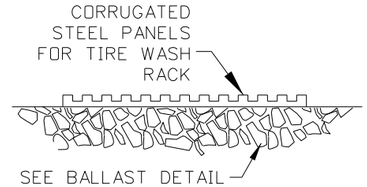


PERPENDICULAR TO HIGHWAY

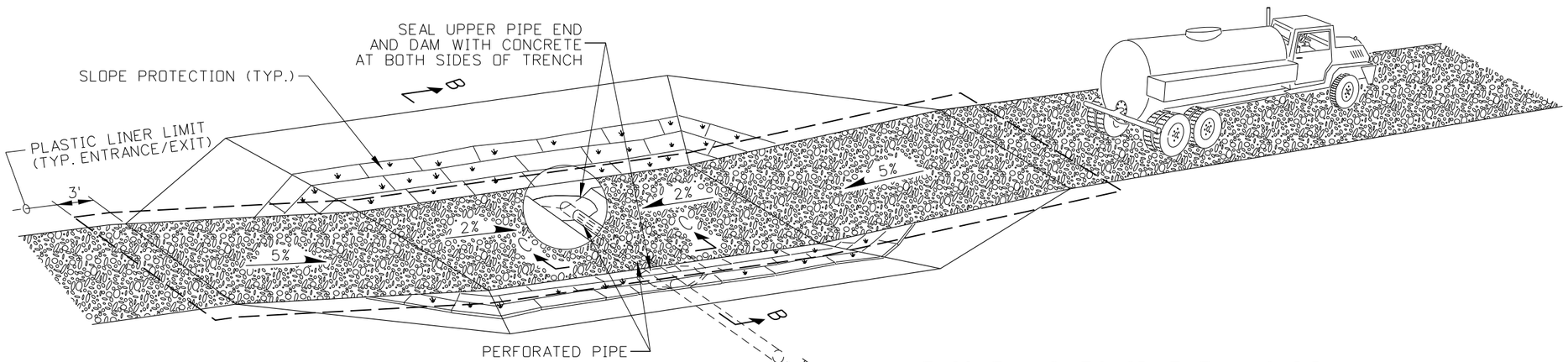
STABILIZED CONSTRUCTION ENTRANCE



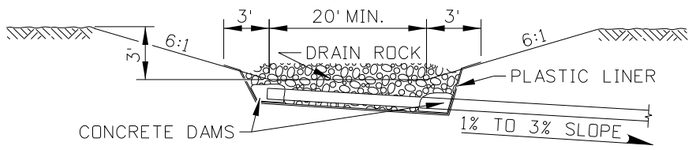
BALLAST DETAIL



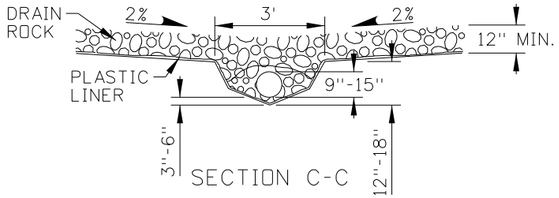
SECTION A-A



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.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 ORIGINAL SIGNED MARCH 18, 2021 RYAN D. LANCASTER

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

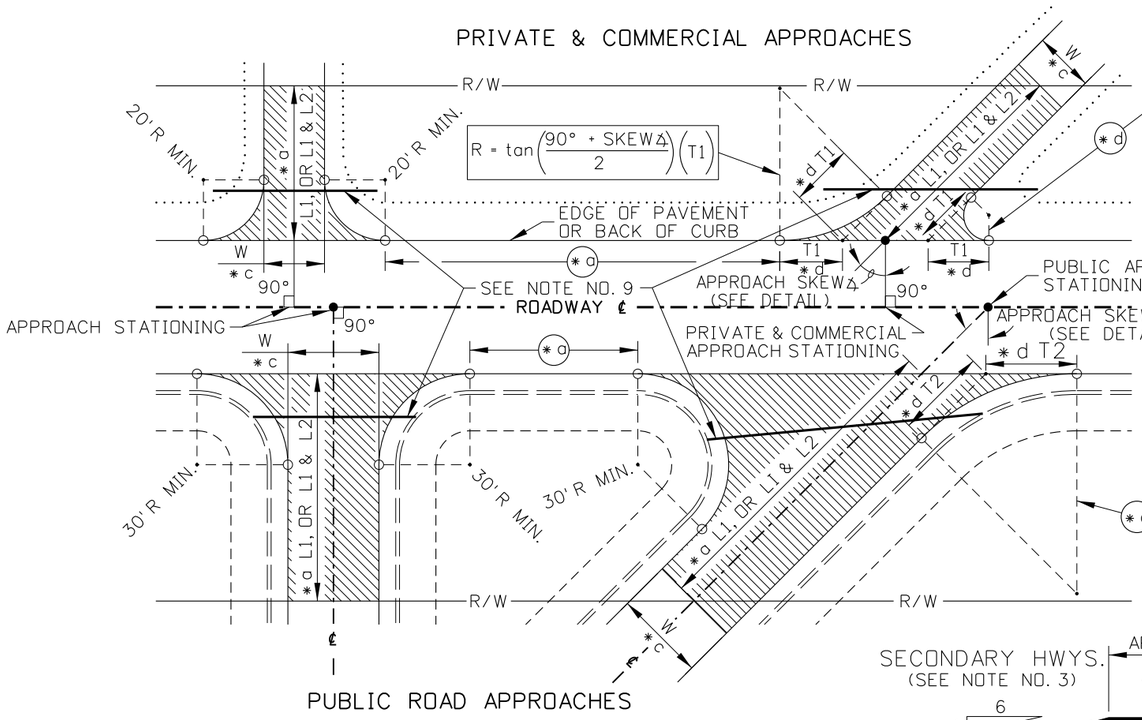
English

STANDARD DRAWING NO.

212-6

SHEET 1 OF 1

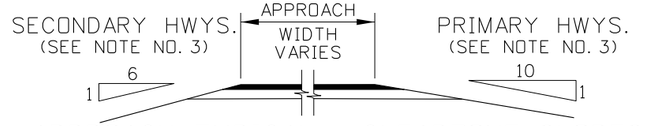
PRIVATE & COMMERCIAL APPROACHES



PUBLIC ROAD APPROACHES

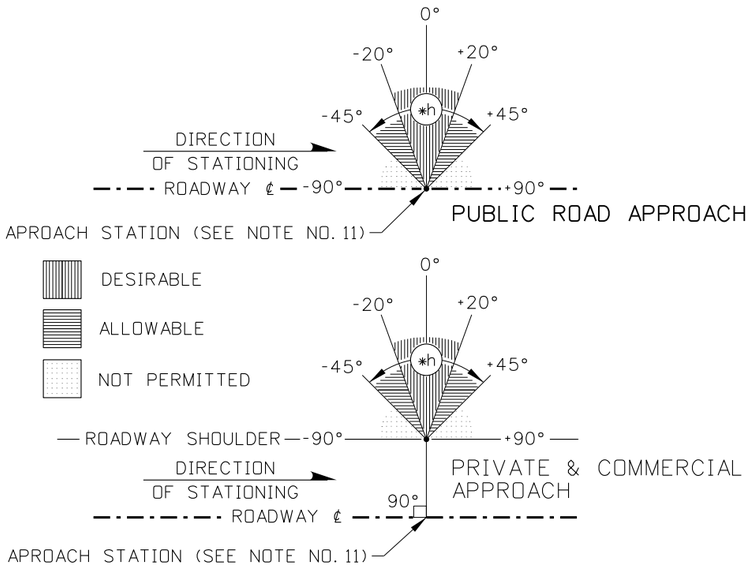
APPROACH PLAN TYPICALS

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



APPROACH TYPICAL - CLEARZONE SLOPES

(PUBLIC & PRIVATE)



APPROACH SKEW ANGLE

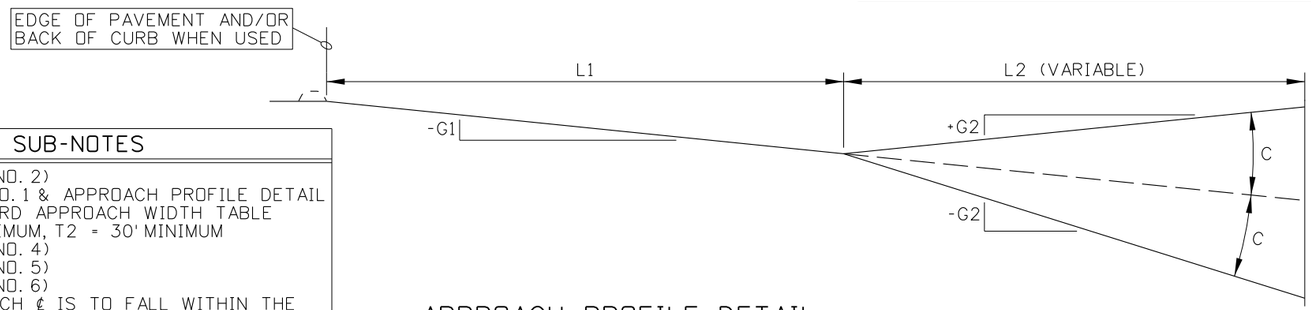
(SEE NOTE NO. 10)

APPROACH GRADE TABLE

TRAFFIC TYPE	GRADE PARAMETER G1 (RANGE)	GRADE PARAMETER G2 (MAX.)	MAX. CHANGE IN GRADE C (*e)	MINIMUM LENGTH L1
HIGH VOLUME (COMMERCIAL, INDUSTRIAL)	-2% TO -3%	±5%	±3%	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'

(*a) STANDARD APPROACH WIDTH TABLE

	POSTED SPEED (mph)	≤35		>35	
	MIN./MAX. WIDTH	MIN.	MAX.	MIN.	MAX.
APPR. TYPE	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



APPROACH PROFILE DETAIL

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 ℄ IS TO FALL WITHIN THE ALLOWABLE OR DESIRABLE LIMITS. THE DESIRABLE LIMIT IS CONSIDERED THE "SAFEST OPTION."

NOTES

1. 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.
2. REFER TO THE ITD ADMINISTRATIVE POLICY 5005 FOR ADDITIONAL INFORMATION ON LOCATION OF APPROACHES.
3. 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.
4. WHEN THE "MAXIMUM CHANGE IN GRADE" (APPROACH GRADE TABLE) "C" IS EXCEEDED, A MINIMUM 10' VERTICAL CURVE SHALL BE USED IN THE APPROACH PROFILE.
5. THE % GRADE OF "G2" SHALL BE A MAXIMUM OF 7% FOR FLAT TERRAIN, 11% FOR ROLLING TERRAIN, OR 15% FOR MOUNTAINOUS.
6. APPROACH GRADES EXCEEDING 10% ARE NOT RECOMMENDED BECAUSE EMERGENCY VEHICLES MAY BE IMPEDED.
7. THE BALLAST REQUIREMENTS OF RURAL APPROACHES SHALL BE AS SHOWN ON THE PLANS.
8. WHEN A MAILBOX TURNOUT IS INSTALLED WITH A RURAL APPROACH, STD. DWG. 405-2 IS REQUIRED.
9. 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.
10. THE APPROACH SKEW ANGLE IS THE DEFLECTION ANGLE BETWEEN A LINE PERPENDICULAR TO THE HIGHWAY CENTERLINE AND THE APPROACH CENTERLINE.
11. 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.
12. NOT TO SCALE.

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

PROFESSIONAL ENGINEER * LAND SURVEYOR REGISTERED ORIGINAL SIGNED AT MILFORD MILLER STATE OF IDAHO DATE OF ORIGINAL SIGNATURE: JUNE 19, 2007 2240 MILFORD MILLER

REVISIONS								
NO.	DATE	BY	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

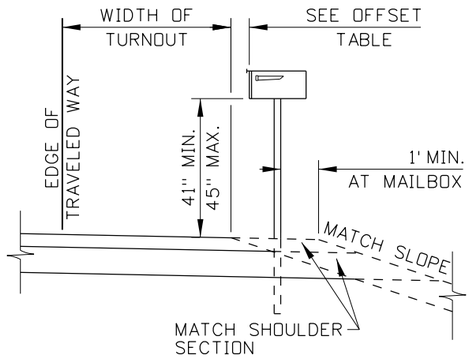
STANDARD DRAWING

RURAL APPROACHES

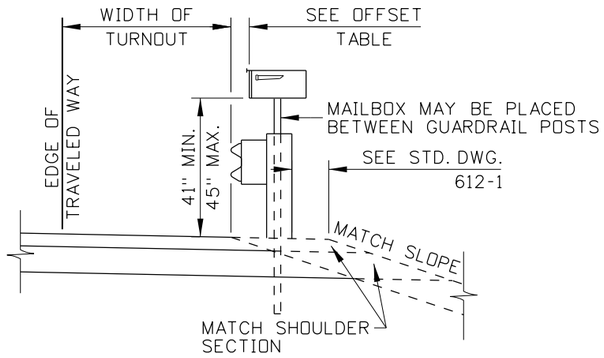
English

STANDARD DRAWING NO. 405-1

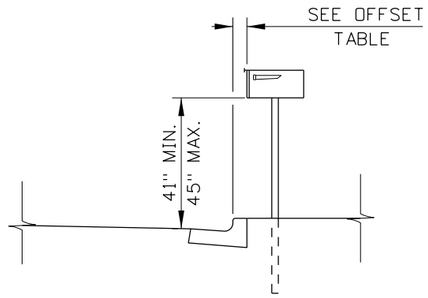
SHEET 1 OF 1



INSTALLATION AT MAILBOX TURNOUT



INSTALLATION BEHIND GUARDRAIL



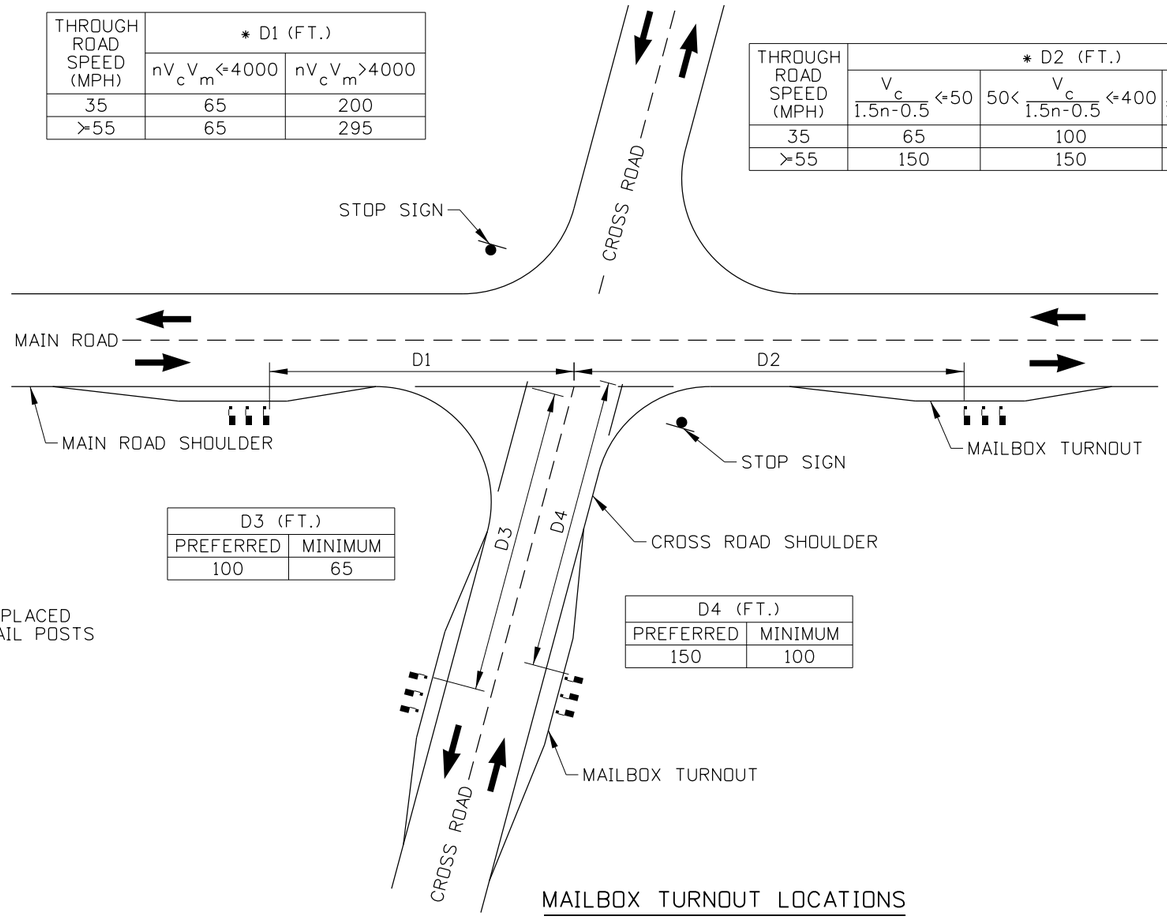
INSTALLATION ON CURBED RESIDENTIAL STREET

TYPICAL MAILBOX INSTALLATIONS

THROUGH ROAD SPEED (MPH)	* D1 (FT.)	
	$nV_cV_m \leq 4000$	$nV_cV_m > 4000$
35	65	200
>55	65	295

THROUGH ROAD SPEED (MPH)	* D2 (FT.)		
	$\frac{V_c}{1.5n-0.5} \leq 50$	$50 < \frac{V_c}{1.5n-0.5} \leq 400$	$\frac{V_c}{1.5n-0.5} > 400$
35	65	100	100
>55	150	150	200

* n = NUMBER OF MAILBOXES AT MAIL STOP
V_c = ADT ON CROSS ROAD
V_m = ADT ON MAIN ROAD

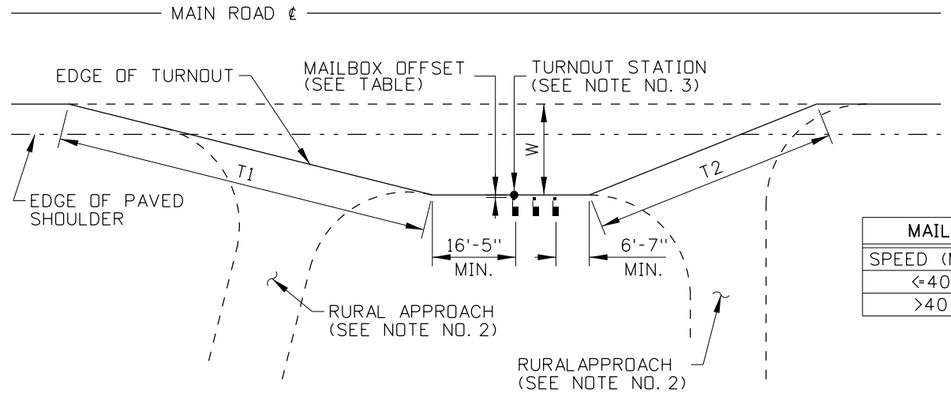


D3 (FT.)	
PREFERRED	MINIMUM
100	65

D4 (FT.)	
PREFERRED	MINIMUM
150	100

MAILBOX TURNOUT LOCATIONS

TURNOUT WIDTH AND MAILBOX OFFSET TABLE				
ADT	TURNOUT WIDTH (FT.)		MAILBOX OFFSET (IN.)	
	PREFERRED	MINIMUM	PREFERRED	MINIMUM
>10,000	>12	8	6 TO 8	0
1,500 TO 10,000	12	8		
400 TO 1,500	10	8		6
<400	8	6		
RESIDENTIAL STREET (NO CURB)	6	0		
RESIDENTIAL STREET (WITH CURB)	NOT APPLICABLE		8 TO 12	6



MAILBOX TAPER		
SPEED (MPH)	T1	T2
≤40	4:1	2.5:1
>40	20:1	12:1

MAILBOX TURNOUT

NOTES

1. LOCATE MAILBOX TURNOUT SO THAT THE TAPERS DO NOT OVERLAP THE INTERSECTION CURVE RADII.

2. CONSTRUCT MAILBOX ASSEMBLIES IN ACCORDANCE WITH STANDARD DRAWING 634-1. CONSTRUCT RURAL APPROACHES IN ACCORDANCE WITH STANDARD DRAWING 405-1.

3. MEASURE MAILBOX TURNOUT STATION AND OFFSET AT THE EDGE OF THE TURNOUT PERPENDICULAR TO THE FIRST MAILBOX.

4. NOT TO SCALE.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 ORIGINAL SIGNED BY RYAN D. LANCASTER JANUARY 31, 2013

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	11-02	MSM						
2	06-05	MSM						
3	01-13	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 405-2_0213.dgn

DRAWING DATE: SEPTEMBER, 1993

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
HIGHWAYS PROGRAM OVERSIGHT ENGINEER
ORIGINAL SIGNED BY: TOM COLE
CHIEF ENGINEER

STANDARD DRAWING

MAILBOX TURNOUT

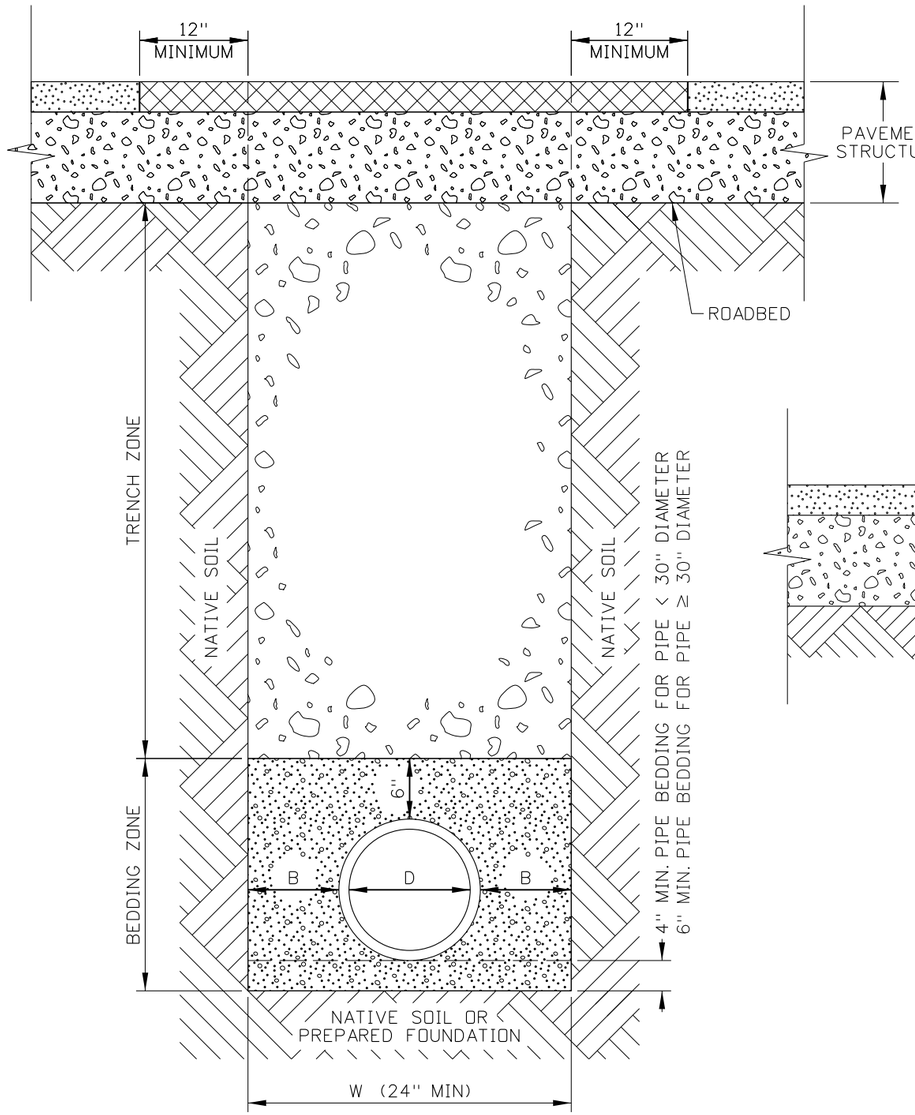
REQUIRES STD. DWG. 405-1

English

STANDARD DRAWING NO.

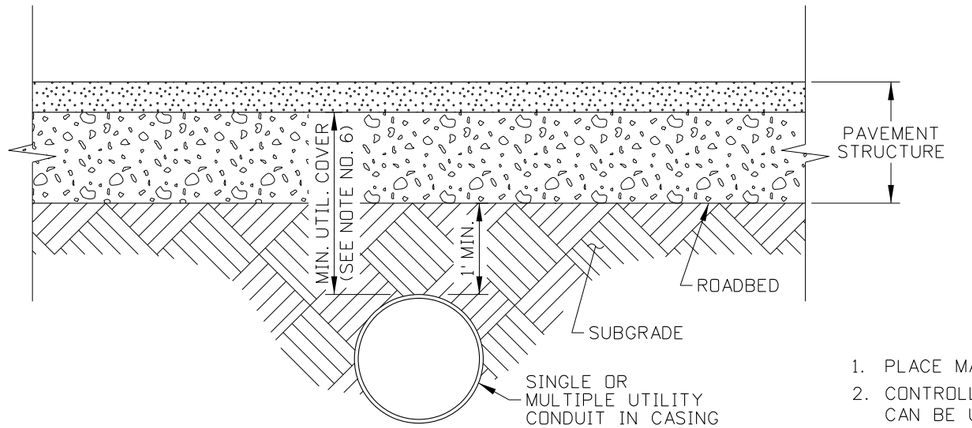
405-2

SHEET 1 OF 1

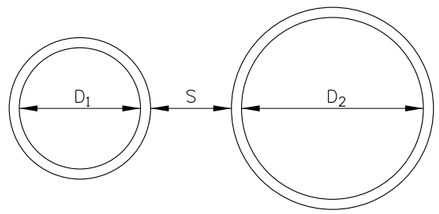


TRENCHING

MATERIALS AND COMPACTION TABLE				
PIPE LOCATION	BEDDING ZONE		TRENCH ZONE	
	MATERIAL REQUIREMENT	COMPACTION REQUIREMENT	MATERIAL REQUIREMENT	COMPACTION REQUIREMENT
INSIDE ROADWAY PRISM	COARSE AGGREGATE FOR CONCRETE SIZE NO. 1, NO. 2A, OR NO. 2B (SUBSECTION 703.02)	ENGINEER ACCEPTANCE	3/4" AGGREGATE FOR BASE (SUBSECTION 703.04) (SEE NOTE NO. 1)	CLASS A COMPACTION (SECTION 205) OR 95% OF IT-74
OUTSIDE ROADWAY PRISM	COARSE AGGREGATE FOR CONCRETE SIZE NO. 1, NO. 2A, OR NO. 2B (SUBSECTION 703.02)	ENGINEER ACCEPTANCE	GRANULAR BORROW OR NATIVE MATERIALS WITH MAXIMUM SIZE OF 6" AND FREE FROM WOOD WASTE OR DELETERIOUS MATERIALS. (SEE NOTE NO. 1)	CLASS D COMPACTION (SECTION 205)



JACKING, DRIVING, OR BORING



MULTIPLE PIPE INSTALLATION DETAIL
(SEE NOTE NO. 4)

MINIMUM DIMENSION TABLE (SEE NOTE NOS. 3 AND 4)		
D (INCHES)	B (INCHES)	S (INCHES)
≤ 6	10	24
7 TO 15	12	24
16 TO 30	18	24
> 30	24	GREATER OF 24 OR D/2

NOTES

1. PLACE MATERIAL IN ACCORDANCE WITH SECTION 210.
2. CONTROLLED DENSITY FILL (CDF) IN ACCORDANCE WITH SECTION 522 CAN BE USED IF APPROVED BY THE ENGINEER.
3. LOOSE LIFT THICKNESS DIRECTLY ON TOP OF PIPE MAY BE INCREASED WITH APPROVAL TO PREVENT DAMAGE TO PIPE DURING COMPACTION.
4. WHEN TWO DIFFERENT DIAMETER PIPES ARE INSTALLED, USE THE LARGER D DIMENSION TO DETERMINE THE S DIMENSION.
5. WHEN THE PIPE DIAMETER IS 36 INCHES OR GREATER AND THE PIPE IS INSTALLED DURING EMBANKEMENT CONSTRUCTION, USE B DIMENSION EQUAL TO THE PIPE DIAMETER.
6. PROVIDE THE FOLLOWING MINIMUM COVER DEPTHS:
   WATER: 4'
   LIQUID OR GAS PETROLEUM: 4'
   ELECTRICAL MAIN LINE: 4'
   COMMUNICATIONS OR ELECTRONICS: 2'
   UTILITY OWNERS AND LOCAL PUBLIC AGENCIES MAY HAVE DIFFERENT MINIMUM COVER DEPTHS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE REQUIRED COVER DEPTHS.
7. PERFORM TRENCHING PER OSHA REQUIREMENTS.
8. DO NOT DISTURB THE INSTALLED PIPE OR CONDUIT, OR LEAVE VOIDS WHEN USING TRENCH BOXES OR SHIELDS.
9. DRAWINGS NOT TO SCALE.

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

PROFESSIONAL ENGINEER REGISTERED ORIGINAL SIGNED BY: JOHN W. INGRAM MARCH 18, 2020 STATE OF IDAHO 6755 JOHN W. INGRAM III

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	12-15	RDL	6	03-21	TWF			
2	03-16	RDL						
3	06-17	RDL						
4	06-18	HEB						
5	11-18	TWF						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 601-1_0421.dgn

DRAWING DATE: MAY 2014

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN

DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

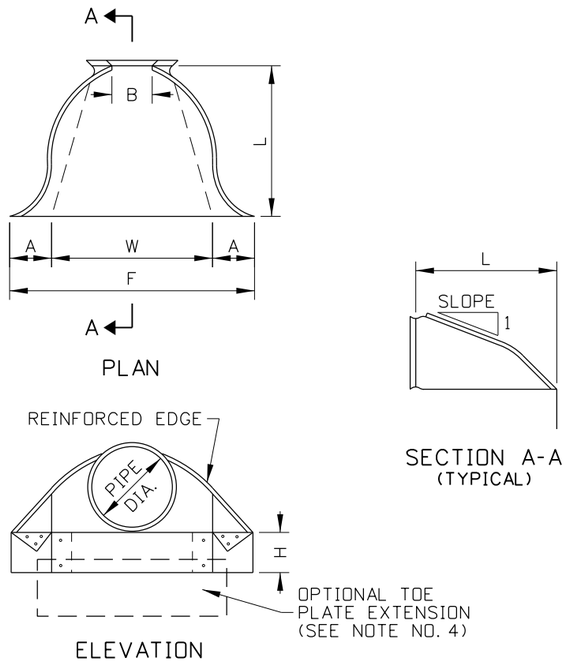
PIPE AND CONDUIT INSTALLATION

English

STANDARD DRAWING NO.

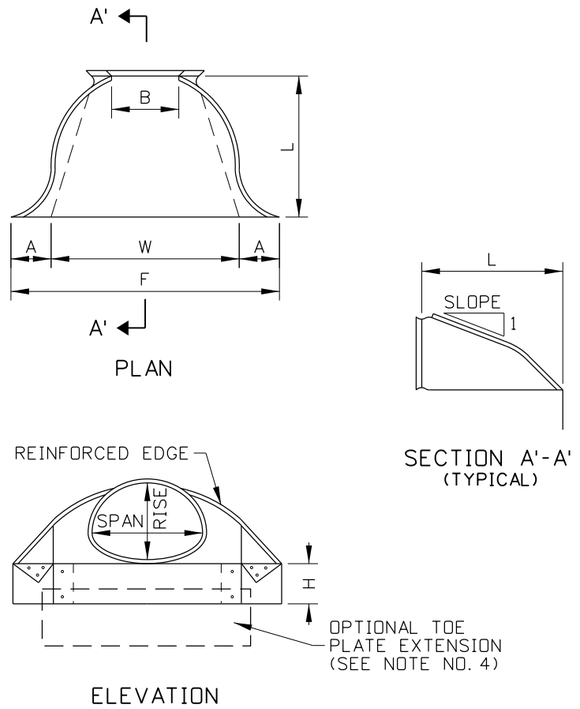
601-1

SHEET 1 OF 1



APRON FOR ROUND METAL PIPE

(GALVANIZED STEEL)



APRON FOR METAL ARCH PIPE

(GALVANIZED STEEL)

DIMENSIONS TABLE

PIPE DIA.	THICK-NESS (1000'S)	ALL DIMENSIONS ARE IN INCHES A (MIN.)	B	H (MIN.)	F (MIN.)	L ±2"	W (MAX.)	APPROX. SLOPE	BODY
12	0.064	5	7	6	22	21	24	2½:1	1 PC.
15	0.064	7	8	6	28	26	30	2½:1	1 PC.
18	0.064	7	10	6	34	31	36	2½:1	1 PC.
21	0.064	8	12	6	40	36	42	2½:1	1 PC.
24	0.064	9	13	6	46	41	48	2½:1	1 PC.
30	0.079	13	16	8	55	51	60	2½:1	1 PC.
36	0.079	11	19	9	70	60	72	2½:1	2 PC.
42	0.109	15	25	10	82	69	84	2½:1	2 PC.
48	0.109	17	29	12	88	78	90	2½:1	2 PC.
54	0.109	17	33	12	100	84	102	2:1	2 PC.
60	0.109	17	36	12	112	87	114	2½:1	3 PC.
66	0.109	17	39	12	118	87	120	2½:1	3 PC.
72	0.109	17	44	12	120	87	126	2½:1	3 PC.
78	0.109	17	48	12	130	87	132	2½:1	3 PC.
84	0.109	17	52	12	136	87	138	2½:1	3 PC.

DIMENSIONS TABLE

PIPE-ARCH SPAN IN.	PIPE-ARCH RISE IN.	THICK-NESS (1000'S)	ALL DIMENSIONS ARE IN INCHES A (MIN.)	B	H (MIN.)	F (MIN.)	L ±2"	W (MAX.)	APPROX. SLOPE	BODY
17	13	0.064	5	9	6	28	20	50	2½:1	1 PC.
21	15	0.064	6	11	6	34	24	58	2½:1	1 PC.
24	18	0.064	7	12	6	40	28	63	2½:1	1 PC.
28	20	0.064	7	16	6	46	32	70	2½:1	1 PC.
35	24	0.079	9	16	6	58	39	85	2½:1	1 PC.
42	29	0.079	11	18	8	73	46	104	2½:1	1 PC.
49	33	0.109	12	21	9	82	53	117	2½:1	2 PC.
57	38	0.109	16	26	10	88	62	130	2½:1	2 PC.
64	43	0.109	17	30	12	100	79	142	2¼:1	2 PC.
71	47	0.109	17	36	12	112	77	156	2¼:1	2 PC.
77	52	0.109	17	36	12	124	77	167	2:1	3 PC.
83	57	0.109	17	44	12	130	77	179	2:1	3 PC.

NOTES

1. ALL 3-PIECE BODIES (APRONS WITH PIPE DIA. 60 IN. & LARGER) TO HAVE 0.109 IN. SIDES AND 0.138 IN. CENTER PANELS. MULTIPLE PANEL BODIES TO HAVE LAP SEAMS WHICH ARE TO BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS.
2. THE REINFORCED EDGES OF GALVANIZED STEEL APRONS, FOR ROUND METAL PIPE SIZES 60 IN. THROUGH 84 IN. AND FOR ARCH METAL PIPE SIZES 77x62 IN. THROUGH 83x57 IN., ARE TO BE SUPPLEMENTED BY GALVANIZED STIFFENER ANGLES. THE ANGLES ARE TO BE ATTACHED BY GALVANIZED BOLTS AND NUTS.
3. ANGLE REINFORCEMENT WILL BE PLACED UNDER THE CENTER PANEL SEAMS ON ARCH PIPE SIZES 77x52 IN. THROUGH 83x57 IN.
4. A GALVANIZED TOE PLATE IS AVAILABLE AS AN ACCESSORY. WHEN SPECIFIED IT SHALL BE THE SAME GAGE AS THE APRON.
5. THE APRON SHALL BE CONNECTED TO PIPE BY USING EITHER CONNECTING BANDS, RODS, OR STRAPS.
5. NOT TO SCALE.

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

PROFESSIONAL ENGINEER * LAND SURVEYOR REGISTERED ORIGINAL SIGNED AT MILFORD MILLER STATE OF IDAHO DATE OF ORIGINAL SIGNATURE MARCH 4, 2005 2240 MILFORD MILLER

REVISIONS

NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	09-64		6	06-84				
2	06-68		7	07-92	MSM			
3	04-70		8	11-01	MSM			
4	10-76		9	03-05	MSM			
5	07-78							

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 608-1_0305.dgn

DRAWING DATE: APRIL, 1961

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

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

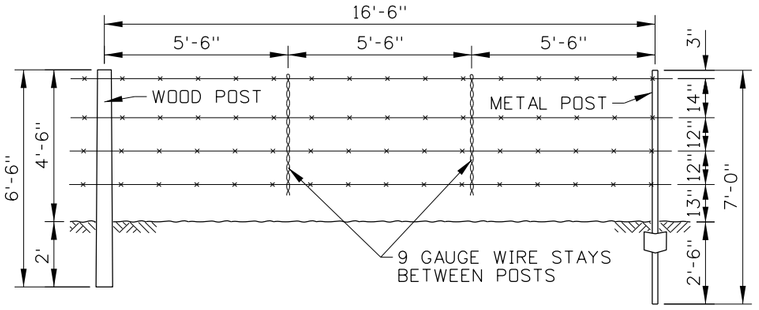
STANDARD DRAWING

GALVANIZED STEEL APRONS FOR PIPE CULVERTS

English

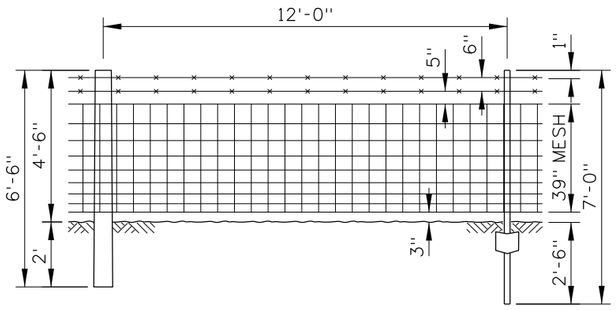
STANDARD DRAWING NO. 608-1

SHEET 1 OF 1



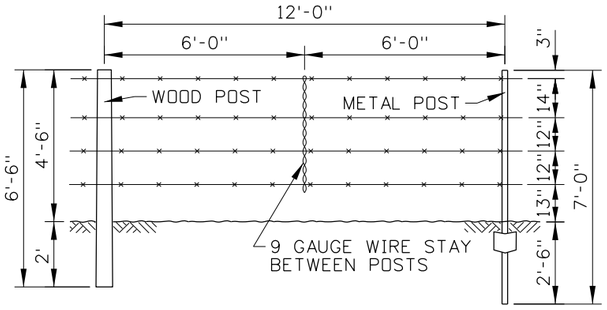
1A (WOOD) 1B (METAL)

FENCE TYPE 1



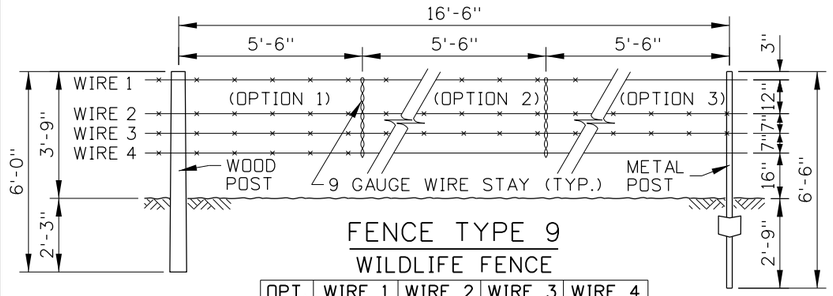
3A (WOOD) 3B (METAL)

FENCE TYPE 3



5-A (WOOD) 5-B (METAL)

FENCE TYPE 5

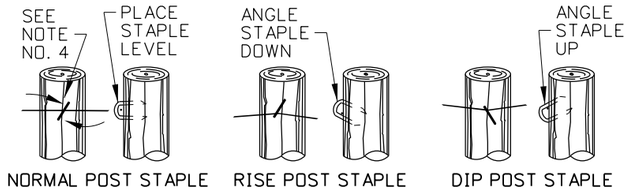


9-A (WOOD) 9-B (METAL)

FENCE TYPE 9

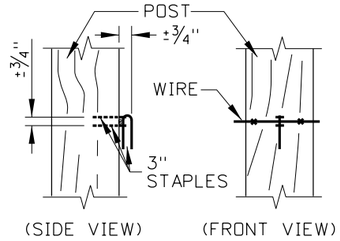
WILDLIFE FENCE

OPT.	WIRE 1	WIRE 2	WIRE 3	WIRE 4
1	BARBED	BARBED	BARBED	BARBED
2	BARBED	BARBED	BARBED	SMOOTH
3	SMOOTH	BARBED	BARBED	SMOOTH



WOOD FENCE POST STAPLE DETAILS

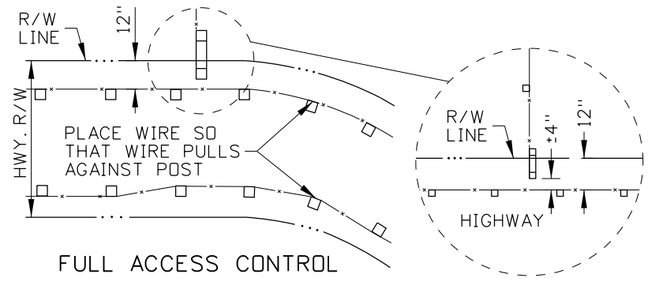
(SEE NOTE NO. 4)



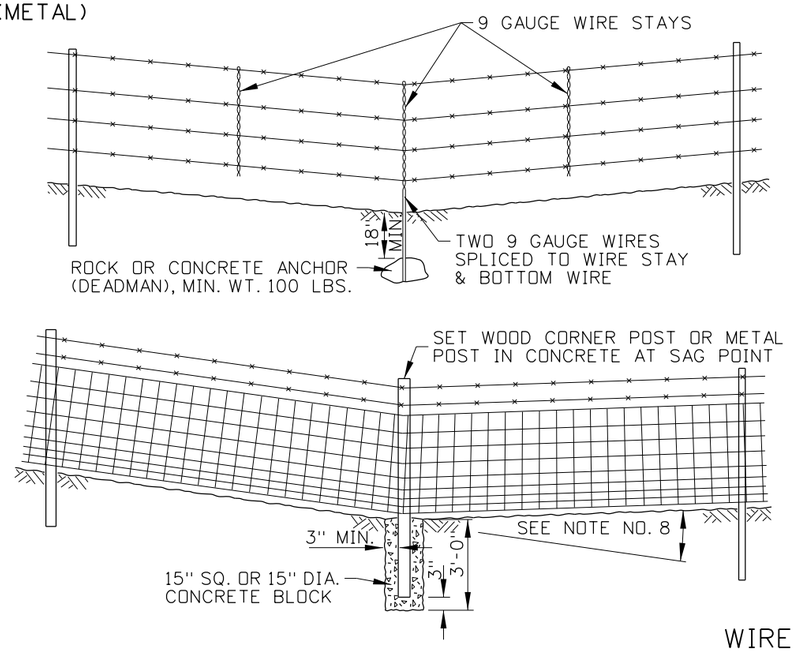
DROP FENCE STAPLE DETAIL

(SEE NOTE NO. 1)

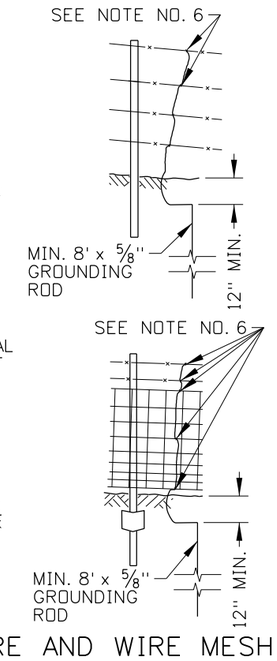
WIRE AND WIRE MESH FENCE GROUNDING TABLE			
FENCE DIST. FROM TRANSMISSION LINE	kV	POST MATERIAL	GROUNDING INTERVAL
0' - 100'	500	ALL	200'
100' - 200'	500	ALL	500'
0' - 100'	345	ALL	400'
100' - 150'	345	ALL	1,000'
50' - 100'	230	ALL	500'



RIGHT-OF-WAY FENCE LOCATION DETAILS



SAG DETAILS



WIRE AND WIRE MESH FENCE GROUNDING DETAILS

BARBED OR WOVEN WIRE FENCE NOTES

1. DESIGNATE POST MATERIAL ON PROJECT PLANS. INDICATE WHETHER THE FENCE WILL BE A DROP FENCE AND THE LOCATION WHERE DROP FENCE STAPLES WILL BE USED.
2. DESIGNATE OPTION 1, 2, OR 3 FOR FENCE TYPE 9 - WILDLIFE FENCE - ON PROJECT PLANS.
3. ATTACH ANCHOR PLATES TO METAL POSTS UNLESS THE POST IS SET IN SOLID ROCK. GROUT DRILL HOLES WHEN METAL POSTS ARE SET IN SOLID ROCK.
4. STAPLE EACH WIRE TO EACH WOOD POST. STAPLE ALTERNATING WIRES ON MESH WIRE FENCES. USE TWO STAPLES ON BRACES AND IN SAG SECTIONS. ROTATE THE STAPLES TO STRADDLE ACROSS THE WOOD GRAIN. ALLOW ENOUGH SPACE FOR WIRE TO SLIDE THROUGH THE STAPLE.
5. ATTACH FENCE WIRE OR WIRE MESH TO STEEL POSTS WITH WIRE CLAMPS. USE ONE WIRE CLAMP PER WIRE. ON WIRE MESH, USE FOUR WIRE CLAMPS PER POST OR EIGHT WIRE CLAMPS PER POST IN SAG SECTIONS.
6. GROUND WIRE AND WIRE MESH FENCES THAT ARE NEAR POWER TRANSMISSION LINES OR THAT PASS UNDER TRANSMISSION LINES. SEE THE WIRE AND WIRE MESH FENCE GROUNDING TABLE AND WIRE AND WIRE MESH FENCE GROUNDING DETAILS. TO GROUND, CONNECT EACH FENCE WIRE TO 6 GAUGE BRAIDED GROUND CABLE WITH SPLIT BOLT CABLE CONNECTORS. FOR WIRE MESH FENCE, CONNECT THE BRAIDED GROUND CABLE EVERY 18". GROUND THE FENCE ONCE IF THE FENCE SECTION IS SHORTER THAN THE GROUNDING INTERVAL.
7. WHEN THE FENCE TERMINATES AT A BRIDGE, ENSURE THAT THE TOP OF THE FENCE DOES NOT EXTEND BEYOND THE TOP OF THE PARAPET OR RAILING.
8. ON THE SAG DETAIL, INSTALL CORNER BRACE IN ADDITION TO THE CONCRETE BASE WHEN THE ANGLE IS GREATER THAN 20°.

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

PROFESSIONAL ENGINEER LICENSED ORIGINAL SIGNED BY RYAN D. LANCASTER DECEMBER 6, 2016 STATE OF IDAHO 13683 RYAN D. LANCASTER

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 610-1_1216.dgn

DRAWING DATE: NOVEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: TED MASON

DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

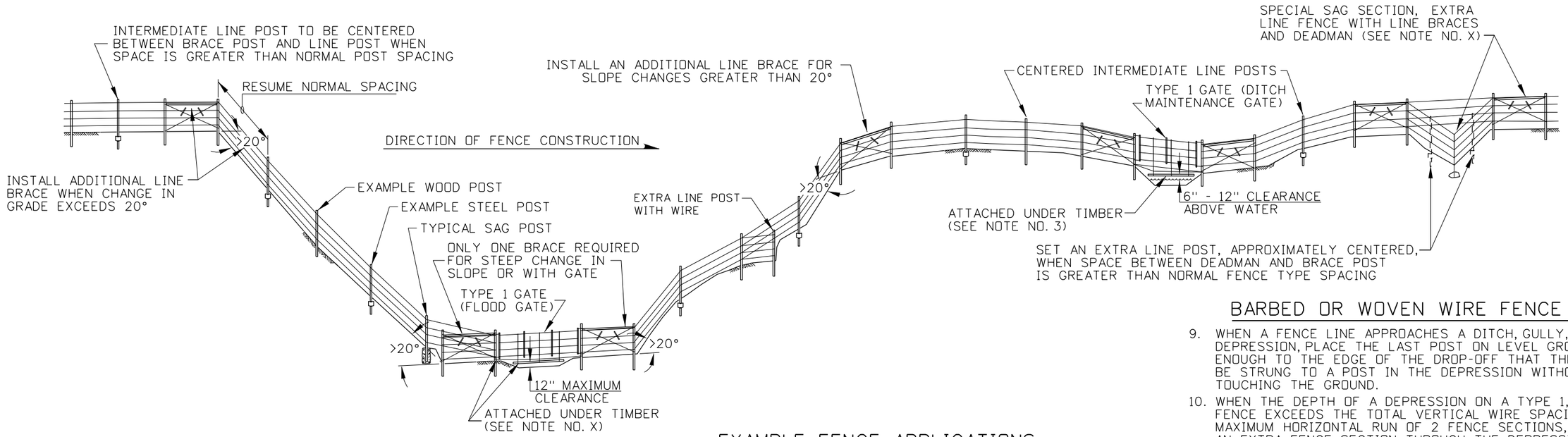
FENCES

English

STANDARD DRAWING NO.

610-1

SHEET 1 OF 3

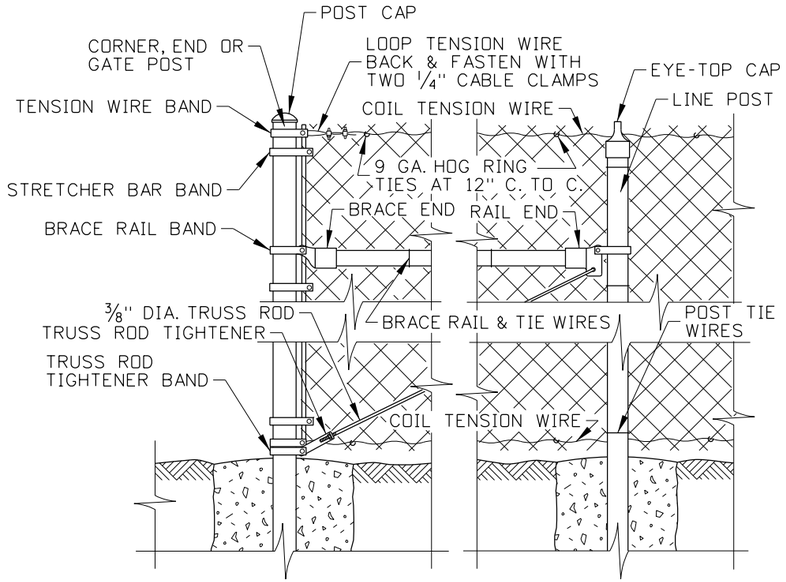


EXAMPLE FENCE APPLICATIONS

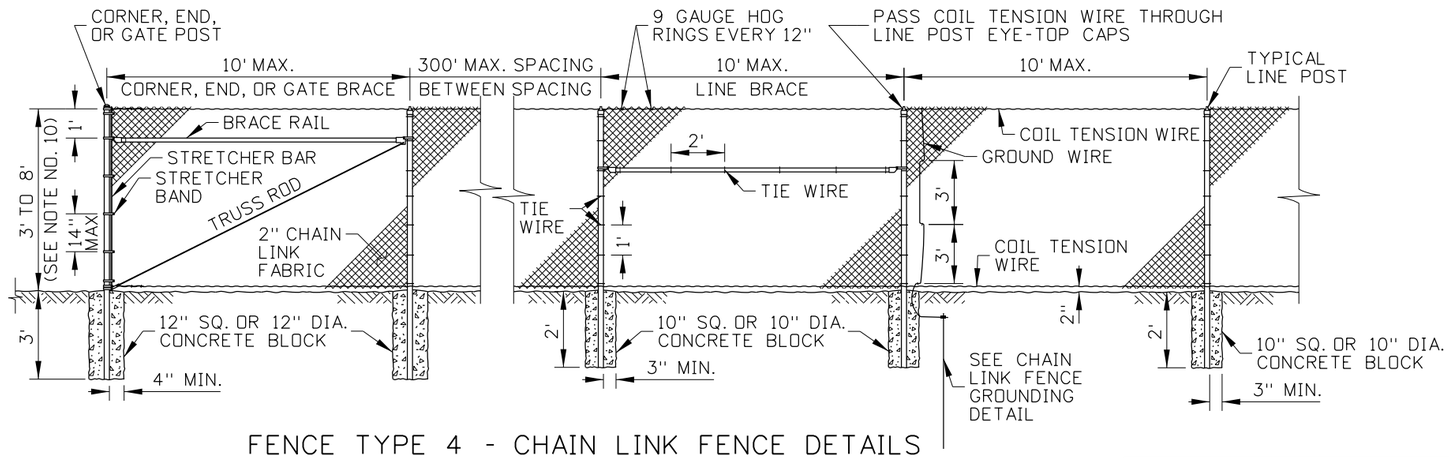
FOR FENCE TYPES 1, 3, 5, & 9

BARBED OR WOVEN WIRE FENCE NOTES

9. WHEN A FENCE LINE APPROACHES A DITCH, GULLY, OR DEPRESSION, PLACE THE LAST POST ON LEVEL GROUND CLOSE ENOUGH TO THE EDGE OF THE DROP-OFF THAT THE WIRE MAY BE STRUNG TO A POST IN THE DEPRESSION WITHOUT TOUCHING THE GROUND.
10. WHEN THE DEPTH OF A DEPRESSION ON A TYPE 1, 5, OR 9 FENCE EXCEEDS THE TOTAL VERTICAL WIRE SPACING OVER A MAXIMUM HORIZONTAL RUN OF 2 FENCE SECTIONS, CONSTRUCT AN EXTRA FENCE SECTION THROUGH THE DEPRESSION. SEE THE EXAMPLE FENCE APPLICATIONS.
11. IF THE DISTANCE BETWEEN THE GROUND AND THE BOTTOM WIRE OF A TYPE 1 GATE IS GREATER THAN 16", INSTALL AN UNDER TIMBER, ADDITIONAL WIRE, AND WIRE STAYS, AND BRACES.



FENCE TYPE 4
CHAIN LINK FENCE



FENCE TYPE 4 - CHAIN LINK FENCE DETAILS

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER ORIGINAL SIGNED DECEMBER 6, 2016 13683 STATE OF IDAHO

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 610-1_1216.dgn

DRAWING DATE: NOVEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: TED MASON

DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

FENCES

English

STANDARD DRAWING NO.

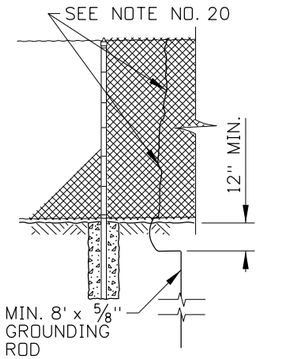
610-1

CHAIN LINK FENCE HARDWARE TABLE

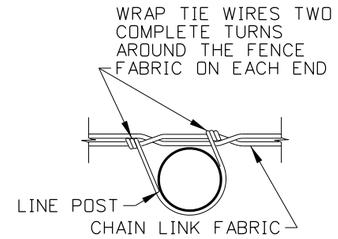
CORNER, END AND GATE POSTS	SEE STANDARD SPECIFICATIONS FOR HIGHWAY CONST.
LINE POST	SEE STANDARD SPECIFICATIONS FOR HIGHWAY CONST.
BRACE RAIL/TOP RAIL	SEE STANDARD SPECIFICATIONS FOR HIGHWAY CONST.
POST CAP	CAST NON-FERROUS ALLOY OR GALVANIZED PRESSED STEEL CAP. MUST FIT SNUGGLY ON POST.
EYE-TOP CAP	GALVANIZED PRESSED STEEL MIN. 3/32" THICKNESS OR GALVANIZED MALLEABLE FERROUS ALLOY
STRECHER BAR BAND	CLASS 1 - MIN. 1/8" x 3/4" MIN. GALVANIZED STEEL CLASS 2 - MIN. 3/32" x 5/16" MIN. GALVANIZED STEEL
TENSION WIRE/BRACE BAND	CLASS 1 - MIN. 1/8" x 3/4" MIN. GALVANIZED STEEL CLASS 2 - MIN. 3/32" x 5/16" MIN. GALVANIZED STEEL
BAND BOLT	CLASS 1 - 5/16" DIA. x 1 3/4" GALV. CARRIAGE BOLT CLASS 2 - 3/8" DIA. x 1 1/4" GALV. CARRIAGE BOLT, (LOCK WASHER & FLAT WASHER FOR EACH BAND)
RAIL END	GALVANIZED PRESSED STEEL OR GALVANIZED MALLEABLE FERROUS ALLOY MIN. 3/8" THICKNESS ON BACK BOLTING APPENDAGE
BRACE END	GALVANIZED PRESSED STEEL OR GALVANIZED MALLEABLE FERROUS ALLOY MIN. 3/8" THICKNESS ON BACK BOLTING APPENDAGE
TRUSS ROD TIGHTENER	CLASS 1 - MIN. 3/8" FORMED GALVANIZED STEEL CLASS 2 - MIN. 1/4" FORMED GALVANIZED STEEL
TRUSS ROD	3/8" GALVANIZED, NC TREADED ROD, LOCK WASHER, & FLAT WASHER WITH TWO 90° BENDS OPPOSITE OF TREADED END
TOP RAIL SLEEVE	GALVANIZED STEEL, NOT TO BE USED ON R/W FENCES, MUST MEET REQUIRED PIPE THICKNESSES
TENSION BAR	CLASS 1 - MIN. 1/8" x 3/4" GALVANIZED STEEL CLASS 2 - MIN. 1/8" x 5/16" GALVANIZED STEEL
FENCE FABRIC	2" GALVANIZED DIAMOND MESH STEEL FABRIC
TIE WIRES	MIN. 9 GAUGE ALUMINUM WITH ONE HOOKED END
COIL TENSION WIRE	MIN. 7 GAUGE
BARBED WIRE & 3-WIRE BARBARM	BARBED WIRE: 14 GAUGE SPACED GALVANIZED MEDIUM CARBON STEEL WIRE WITH BARBS SPACED AT 5" C. to C. GALVANIZING SHALL CONFORM TO APPLICABLE A.S.T.M. DES. A-121-66 FOR ZINC-COATED & AASHTO M 280 SPECIFICATIONS. 3-WIRE BARBARM: BARBWIRE ARM (ONE PIECE "Z" CUT) FITS 1 5/8" O.D. POST, 1 5/8" TOP RAIL" FITS 2" O.D. POST, 1 5/8" TOP RAIL" FITS 2 1/2" O.D. POST, 1 5/8" TOP RAIL" FITS 3" O.D. POST, 1 5/8" TOP RAIL"

CHAIN LINK FENCE GROUNDING TABLE

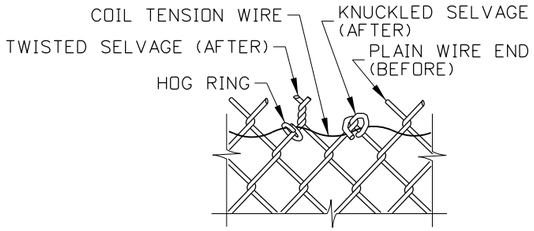
FENCE DIST. FROM TRANSMISSION LINE	kV	GROUNDING INTERVAL
0' - 100'	500	200'
100' - 200'	500	500'
0' - 100'	345	400'
100' - 150'	345	1,000'
50' - 100'	230	500'



CHAIN LINK FENCE GROUNDING DETAIL

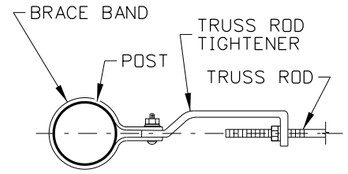


CHAIN LINK FENCE TIE DETAIL



WIRE SELVAGE DETAIL

(SEE NOTE NO. 16)



TRUSS ROD TIGHTENER DETAIL

CHAIN LINK FENCE NOTES

12. THE MINIMUM FENCE HEIGHT IS 8' WHEN BARBED WIRE AND THE 3-WIRE BARBARM ARE USED. DO NOT USE RAZOR WIRE WITH THE 3-WIRE BARBARM.
13. SPACE POSTS EQUAL DISTANCES APART, 10' MAXIMUM SPACING.
14. ADJUST THE POST TOP ELEVATIONS TO PROVIDE A SMOOTH VISUAL FENCE PROFILE. INSTALL CORNER POSTS AT HORIZONTAL BREAKS IN THE FENCE OF 15° OR MORE.
15. STRETCH THE FENCE FABRIC SMOOTH SO THAT IT HAS A UNIFORM APPEARANCE.
16. SELVAGE THE PLAIN WIRE ENDS ON THE TOP AND BOTTOM OF THE CHAIN LINK FABRIC BY THE TWISTED OR KNUCKLED METHOD. SEE WIRE SELVAGE DETAIL.
17. CHAIN LINK FENCE HARDWARE MAY VARY SOMEWHAT FROM THAT SHOWN IN THE CHAIN LINK FENCE HARDWARE TABLE. ENSURE THAT HARDWARE AND MATERIALS USED ARE UNIFORM AND COMPATIBLE.
18. INSTALL A TOP RAIL WHEN BARBED WIRE AND THE 3-WIRE BARBARM ARE USED.
19. INSTALL PRIVACY FENCE SLATS IF SHOWN ON PROJECT PLANS.
20. GROUND CHAIN LINK FENCES THAT ARE NEAR POWER TRANSMISSION LINES OR THAT INTERSECT TRANSMISSION LINES. SEE THE CHAIN LINK FENCE GROUNDING TABLE AND CHAIN LINK FENCE GROUNDING DETAILS. TO GROUND, CONNECT 6 GAUGE BRAIDED GROUND CABLE TO THE CHAIN LINK FABRIC EVERY 36". GROUND THE FENCE ONCE IF THE FENCE SECTION IS SHORTER THAN THE GROUNDING INTERVAL.
21. DRAWING NOT TO SCALE.

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

PROFESSIONAL ENGINEER LICENSED ORIGINAL SIGNED BY RYAN D. LANCASTER STATE OF IDAHO DECEMBER 6, 2016 13683 RYAN D. LANCASTER

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 610-1_1216.dgn

DRAWING DATE: NOVEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: TED MASON

DESIGN/TRAFFIC SERVICES ENGINEER

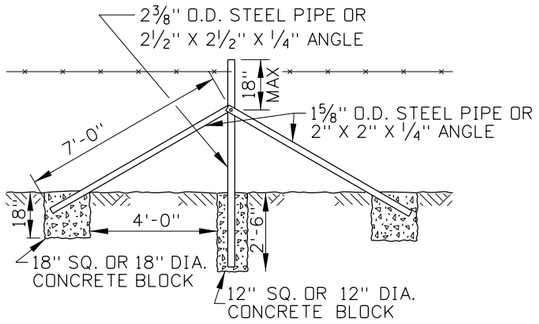
STANDARD DRAWING

FENCES

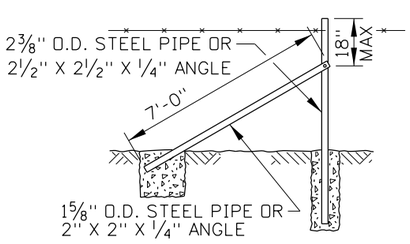
English

STANDARD DRAWING NO. 610-1

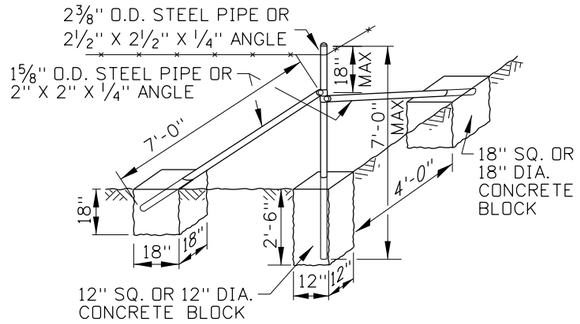
SHEET 3 OF 3



LINE BRACE



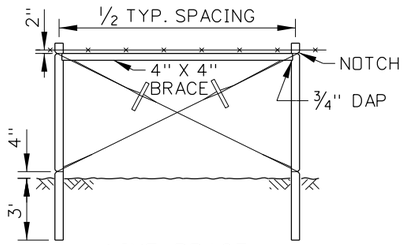
TERMINAL BRACE



CORNER BRACE

BRACE SPACING TABLE			
FENCE TYPE	DISTANCE BETWEEN BRACES	METAL BRACES	WOOD BRACES
1, 5, & 9	<66'	NONE	NONE
	66' TO 660'	SINGLE	SINGLE
	660' TO 990'	DO NOT EXCEED 660'	DOUBLE
3	<33'	NONE	NONE
	33' TO 330'	SINGLE	SINGLE
	330' TO 660'	DO NOT EXCEED 330'	DOUBLE
4	INTEGRATED INTO CHAIN LINK FENCE		

METAL BRACES



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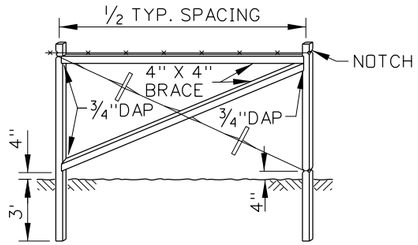

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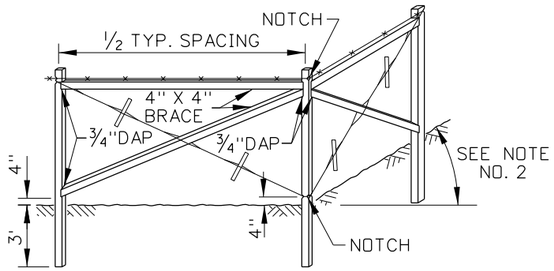
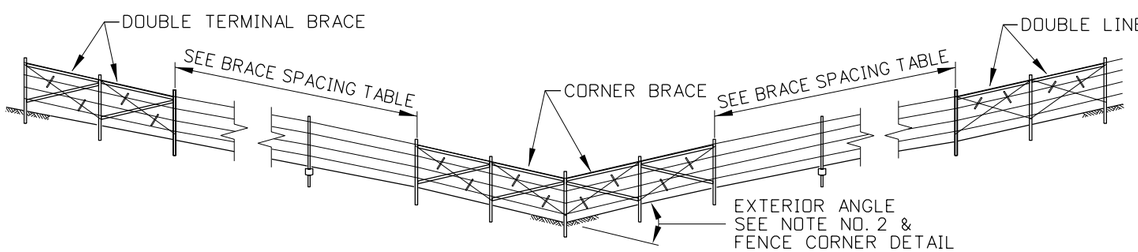
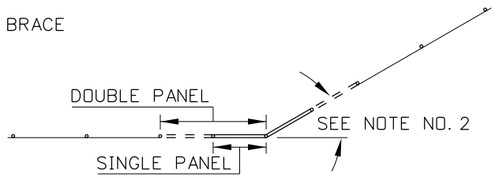


CORNER BRACE

WOOD BRACES



WOOD DOUBLE BRACE PANELS



FENCE CORNER DETAIL

NOTES

1. USE METAL BRACES WHEN METAL FENCE POSTS ARE USED. USE WOOD BRACES WHEN WOOD FENCE POSTS ARE USED.
2. USE DOUBLE WOOD CORNER BRACES WHEN THE EXTERIOR FENCE CORNER ANGLE EXCEEDS 30°. INSTALL DOUBLE LINE AND TERMINAL BRACES IN ACCORDANCE WITH THE FENCE BRACE TABLE.
3. SEE THE BRACE SPACING TABLE FOR THE MAXIMUM DISTANCES BETWEEN BRACES.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER 13683 ORIGINAL SIGNED BY RYAN D. LANCASTER DECEMBER 6, 2016 STATE OF IDAHO

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 610-3_1216.dgn

DRAWING DATE: NOVEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: TED MASON

DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

FENCE BRACES

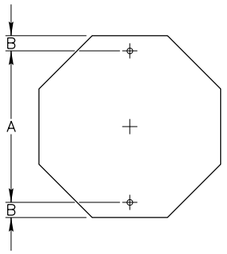
REQUIRES STD. DWG. 610-1

English

STANDARD DRAWING NO.

610-3

SHEET 1 OF 1



SIGN SIZE	A	B
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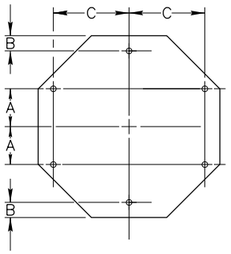
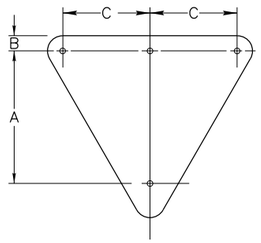
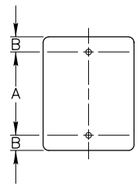


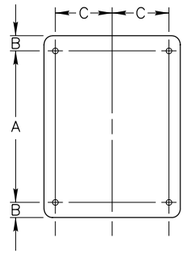
SIGN SIZE	A	B	C
36"X36"	8"	3"	12"
48"X48"	10"	—	20"



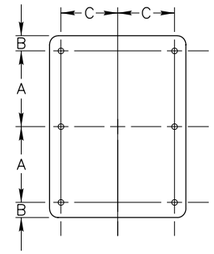
SIGN SIZE	A	B	C
30"X30"	18"	3"	—
36"X36"	23"	3"	—
48"X48"	25"	3"	17"
60"X60"	35"	4"	23"



SIGN SIZE	A	B
6"X12"	9"	1½"
6"X18"	15"	1½"
9"X12"	9"	1½"
12"X18"	15"	1½"
12"X30"	24"	3"
12"X36"	32"	2"
18"X24"	18"	3"
24"X30"	24"	3"
24"X36"	30"	3"
30"X36"	30"	3"



SIGN SIZE	A	B	C
36"X36"	30"	3"	15"
36"X48"	42"	3"	15"
48"X30"	24"	3"	15"
48"X36"	30"	3"	15"
60"X36"	30"	3"	21"



SIGN SIZE	A	B	C
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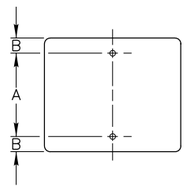

SIGN SIZE	A	B
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18"X9"	6"	1½"
18"X12"	9"	1½"
18"X18"	15"	1½"
21"X15"	12"	1½"
24"X6"	3"	1½"
24"X10"	7"	1½"
24"X12"	9"	1½"
24"X18"	15"	1½"
24"X24"	18"	3"
30"X18"	12"	3"
30"X24"	18"	3"
30"X30"	24"	3"
36"X24"	18"	3"
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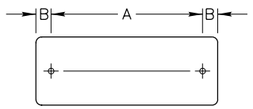

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36"X12"	30"	3"
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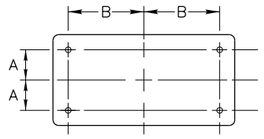
48"X18"	42"	3"
54"X18"	48"	3"



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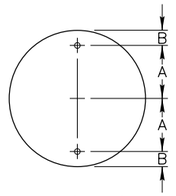

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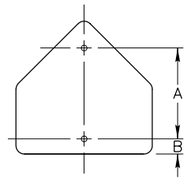
48"	21"	3"



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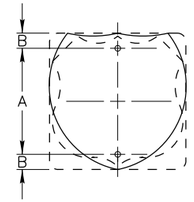
36"X36"	24"	3"



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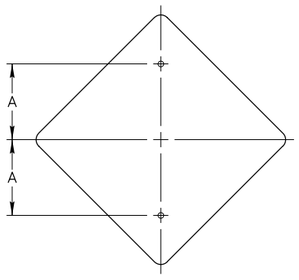
30"X24"	18"	3"



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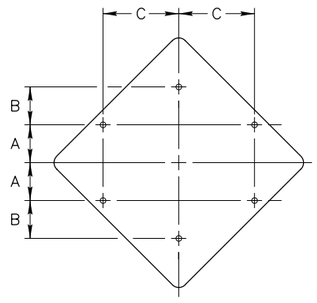
30"X30"	15"



SIGN SIZE	A	B	C
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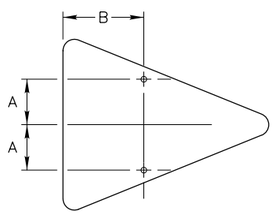
48"X48"	10"	—	20"



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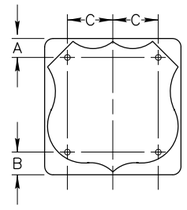

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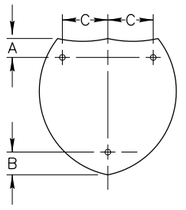

SIGN SIZE	A	B	C
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45"X36"	5"	6"	16"

NOTES:

1. ALL MOUNTING HOLES SHALL BE ⅜" DIAMETER.

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

PROFESSIONAL ENGINEER LICENSED ORIGINAL SIGNED BY RYAN D. LANCASTER STATE OF IDAHO 13683 MANUAL SIGNATURE OR AUTHENTICATED ELECTRONIC SIGNATURE 1, 2017 RYAN D. LANCASTER

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	12-01	NQB						
2	06-07	HEB						
3	07-14	HEB						
4	05-17	HEB						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 616-1_0517.dgn

DRAWING DATE: DECEMBER, 1994

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN

DESIGN/TRAFFIC SERVICES ENGINEER

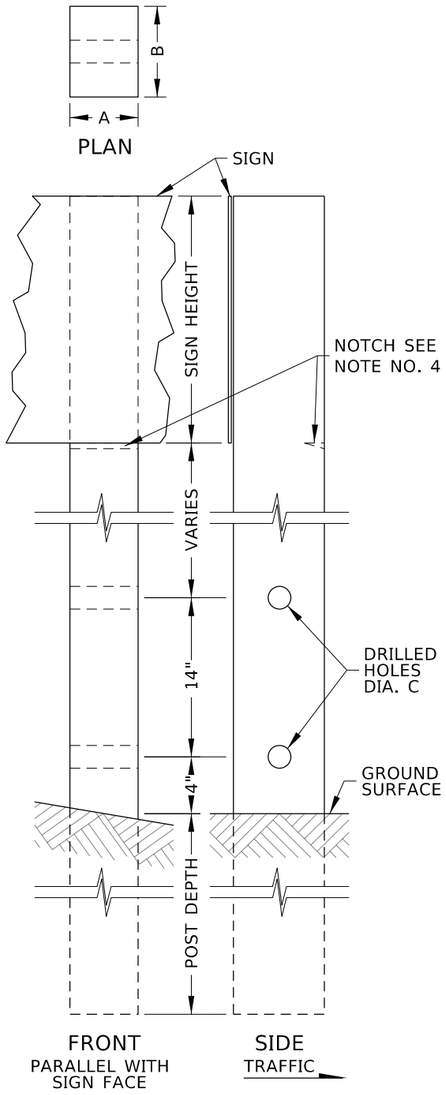
STANDARD DRAWING

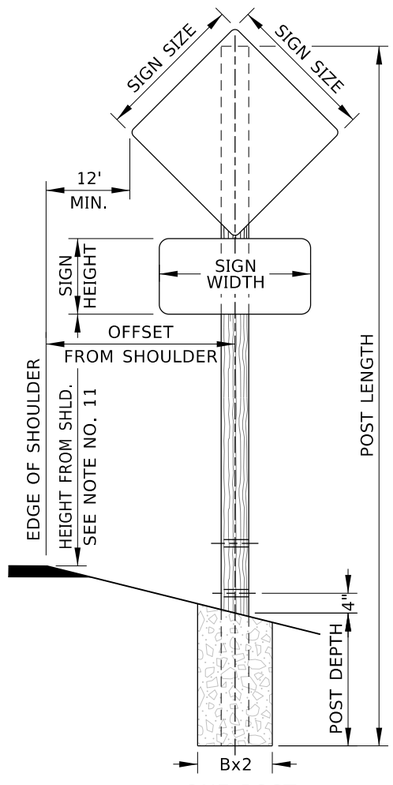
PUNCHING SCHEDULE FOR TYPE "B" OR TYPE "E" SIGNS

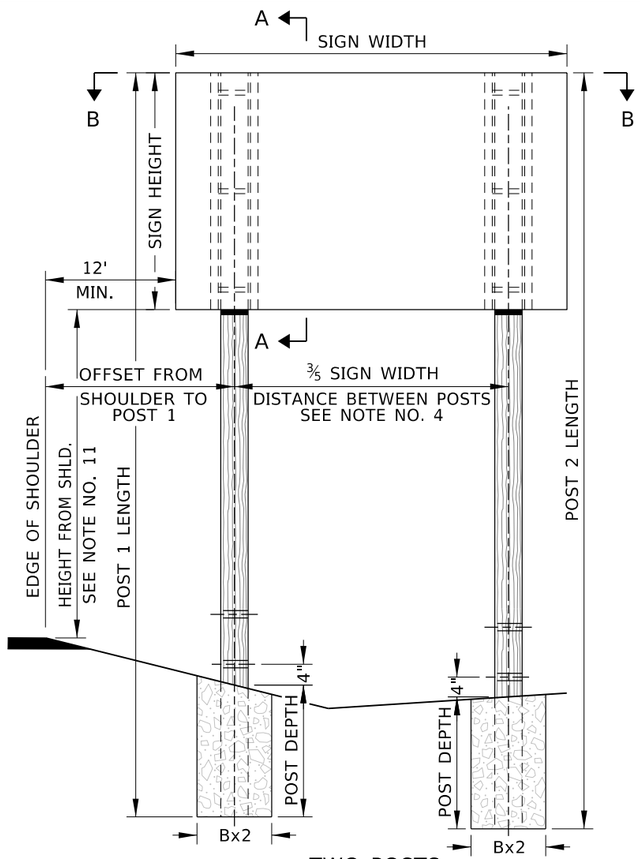
English

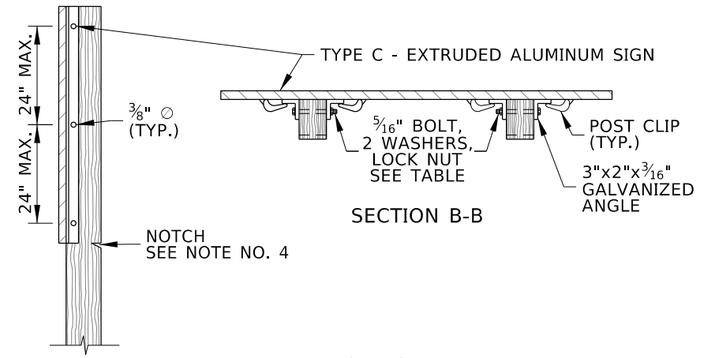
STANDARD DRAWING NO. 616-1

SHEET 1 OF 1









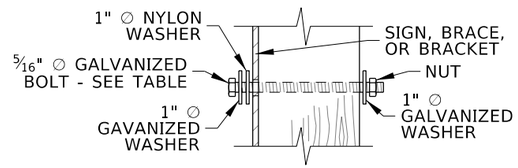
NOTES

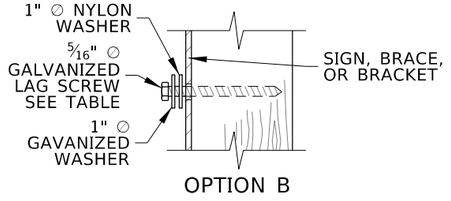
1. USE TYPE D - WOOD POSTS - WITH TYPE B - SHEET ALUMINUM, TYPE C - EXTRUDED ALUMINUM PANEL, AND TYPE E - HDO PLYWOOD SIGNS.
2. SEE THE TRAFFIC MANUAL TO CALCULATE SIGN LOAD PER POST.
3. SEE PROJECT SIGN SUMMARY FOR SIGN ASSEMBLY DIMENSIONS.
4. USE ONE OR MORE TYPE D - WOOD POST. DO NOT MIX POST SIZES ON THE SAME SIGN ASSEMBLY. WHEN MULTIPLE POSTS ARE INSTALLED:
   A. NOTCH THE BACK SIDE OF THE POSTS.
   B. PROVIDE MORE THAN ⅗ SPACING BETWEEN POSTS FOR SIGNS THAT ARE NARROWER THAN 6'.
   C. PROVIDE A MINIMUM 7' DISTANCE BETWEEN POST TYPES D-3 AND D-4.
5. POST 1 IS CLOSEST TO THE HIGHWAY, WHETHER INSTALLED ON THE RIGHT OR LEFT SIDE.
6. ALIGN POST SO DIMENSION B IS PARALLEL TO THE TRAFFIC DIRECTION. ENSURE DRILLED HOLES ARE PERPENDICULAR TO TRAFFIC DIRECTION.
7. PRE-DRILL OR FIELD DRILL D-2, D-3, AND D-4 POSTS. ENSURE THE BOTTOM DRILLED HOLE IS ABOVE AND WITHIN 4" OF THE GROUND SURFACE.
8. SIGNS CAN BE MOUNTED BACK-TO-BACK IF THE SHAPE OF STOP, YIELD, OR WARNING SIGNS ARE NOT SHIELDED.
9. SIGNS ARE INSTALLED WITH OR WITHOUT BRACES OR BRACKETS DEPENDENT ON SIGN SIZE AND APPLICATION.
10. TYPE B - SHEET ALUMINUM - OR TYPE E - HDO PLYWOOD - SIGNS CAN BE AFFIXED TO THE POST OR THROUGH BRACES OR BRACKETS. FOR TYPE C - EXTRUDED ALUMINUM SIGNS, AFFIX GALVANIZED ANGLE TO POST AND CLIP SIGN TO ANGLE.
11. INSTALL SIGNS AT THE FOLLOWING HEIGHTS:
    A. IF INSTALLED IN A RURAL AREA, 5 FEET ABOVE THE PAVEMENT ELEVATION OR 4 FEET IF A SUPPLEMENTARY PLAQUE IS INSTALLED BELOW THE SIGN.
    B. IF INSTALLED IN THE VICINITY OF A CURB OR IN A BUSINESS, COMMERCIAL, OR RESIDENTIAL AREA WHERE PARKING OR PEDESTRIAN MOVEMENTS ARE LIKELY, 7 FEET ABOVE THE PAVEMENT ELEVATION OR 6 FEET IF A SUPPLEMENTARY PLAQUE IS INSTALLED BELOW THE SIGN. IF INSTALLED LOWER THAN 7 FEET, ENSURE SIGNS DO NOT PROJECT MORE THAN 4 INCHES INTO THE PEDESTRIAN FACILITY.
12. EXCAVATE POST HOLE TWICE AS LARGE AS DIMENSION B. BACKFILL AROUND POST IN ACCORDANCE WITH SECTION 210.
13. TYPE D - WOOD POSTS DO NOT NEED TO BE SHIELDED BY GUARDRAIL OR BARRIER. WHEN WOOD POSTS ARE INSTALLED BEHIND GUARDRAIL OR BARRIER, ENSURE THE POSTS ARE OUTSIDE OF THE GUARDRAIL OR BARRIER WORKING WIDTH.
14. WHEN THE SIGN IS INSTALLED ON A BACKSLOPE, ENSURE THE SIGN POST IS AT LEAST 5' HIGHER THAN THE GROUND SURFACE.
15. DRAWING NOT TO SCALE.

SIGN POST AND FOUNDATION TABLE

TYPE D WOOD POST									
POST TYPE	WOOD POST SIZE			MAXIMUM SIGN LOAD (SFxFT)	NOTCH DEPTH (IN)	POST DEPTH (FT)	FASTENERS		
	A (IN)	B (IN)	C (IN)				OPT. A (IN)	OPT. B (IN)	ANGLE BOLT (IN)
D-1	4	4	-	47	-	3.5	4.5	3	4.5
D-2	4	6	1½	111	1¾	4	6.5	4	4.5
D-3	6	6	2	162	1¾	5	6.5	4	6.5
D-4	6	8	3	302	2½	6	8.5	4	6.5

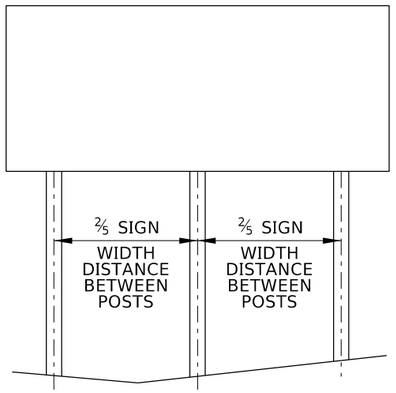
SIGN ASSEMBLY MEASUREMENTS





FASTENER DETAIL

SEE NOTE NO. 10



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

PROFESSIONAL ENGINEER LICENSED ORIGINAL SIGNED BY Ryan D. Lancaster STATE OF IDAHO MARCH 1, 2023 ORIGINAL SIGNED 13683 RYAN D. LANCASTER

REVISIONS

NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	08-96	HEB						
2	12-13	HEB						
3	02-23	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 616-10_0423.dgn

DRAWING DATE: NOVEMBER, 1991

IDAHO TRANSPORTATION DEPARTMENT

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

BOISE IDAHO

ORIGINAL SIGNED BY: MONICA CRIDER

HIGHWAY DESIGN ENGINEER

STANDARD DRAWING

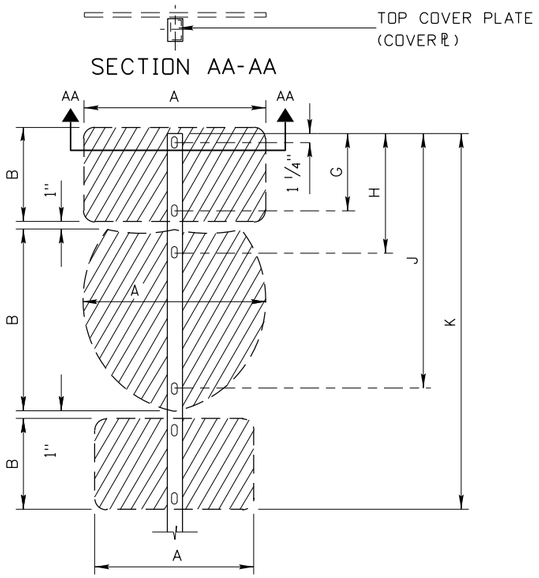
WOOD SIGN POST
TYPE D - WOOD POST

ENGLISH

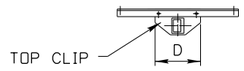
STANDARD DRAWING NO.

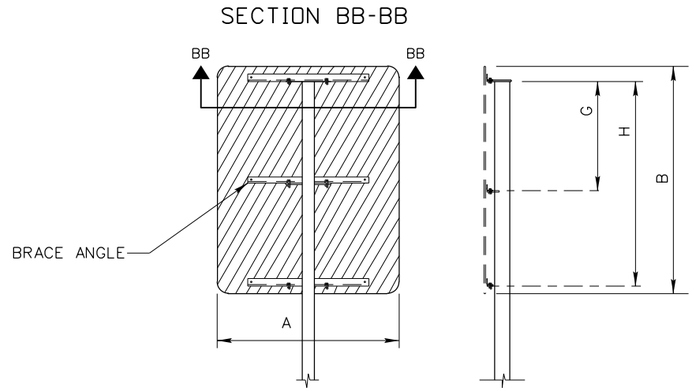
616-10

SHEET 1 OF 1



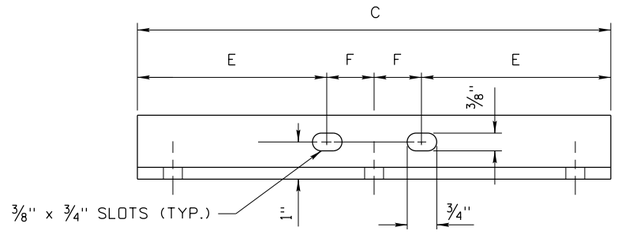
4" x 3" POST DETAILS



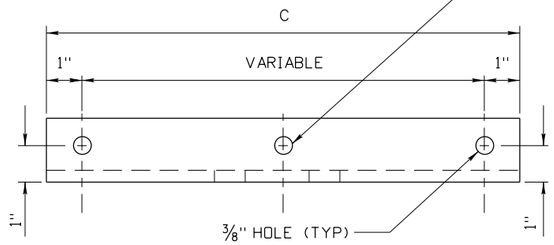


POST AND BRACE ANGLES
4" x 3", 5" x 5", 6" x 6" POSTS

POST DETAILS FOR 4"x3" POSTS						
SIGN DESCRIPTION	SIGN SIZE A	SIGN SIZE B	G	H	J	K
STOP	30"	30"	25¼"	N/A	N/A	28¼"
	36"	36"	31¼"	N/A	N/A	34¼"
YIELD	36"TRIANGLE		25¼"	N/A	N/A	30¼"
SQUARE AND RECTANGULAR SIGNS	12"	30"	25¼"	N/A	N/A	28¼"
	24" / 36"	18"	N/A	N/A	N/A	
	24" / 30"	24"	19¼"	N/A	N/A	22¼"
	24"	30"	25¼"	N/A	N/A	28¼"
	30"	30"	25¼"	N/A	N/A	28¼"
	30"	36"	31¼"	N/A	N/A	34¼"
	36"	24"	19¼"	N/A	N/A	22¼"
	36"	30"	25¼"	N/A	N/A	28¼"
WARNING	18" DIAMOND		21¼"	N/A	N/A	23½"
	30" DIAMOND		31¼"	N/A	N/A	37¼"
WARNING & AUXL. SIGNS	30" DIAMOND		31¼"	N/A	N/A	56¼"
	18"	18"	N/A	39¾"	54¾"	
NO PASS. ZONE	48"	36"	19¼"	N/A	N/A	21½"
TRAIL BLAZER ASSEMBLY (ASSY.)	24"	12"	10¼"	N/A	N/A	51¼"
	24"	24"	N/A	15¾"	33¾"	
	21"	15"	N/A	N/A	N/A	
ADV. ROUTE MARKER ASSY.	24"	24"	19¼"	N/A	N/A	38¼"
	24"	15"	N/A	24¾"	36¾"	
SINGLE JCT. ASSY.	21"	15"	13¼"	N/A	N/A	39¾"
	24"	24"	N/A	18¾"	36¾"	
HOSPITAL, CAMPING ASSY.	24"	6"	N/A	24¾" [1]	27¾" [2]	29¼"



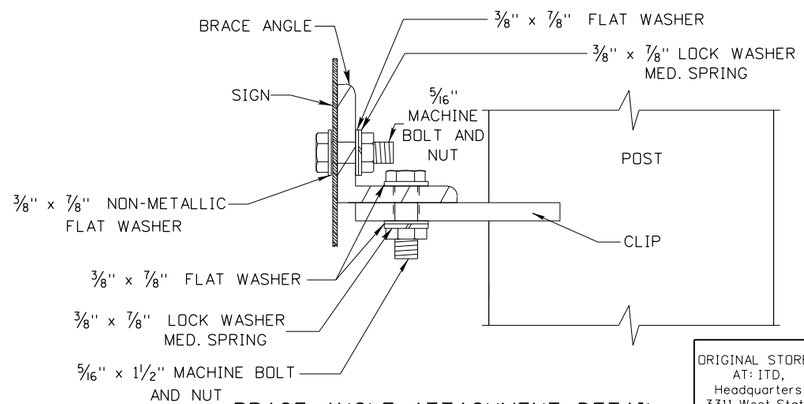
NOTE:
CENTER HOLES IN THE BRACE ANGLES ARE REQUIRED ONLY FOR THOSE SIGNS WHERE "A" IS 72" OR GREATER.



BRACE ANGLE DETAIL

POST AND BRACE ANGLES FOR 4" X 3", 5" X 5", 6" X 6" POSTS									
SIGN DESCRIPTION	SIGN SIZE A	SIGN SIZE B	C	D	E	F	G	H	WEIGHT IN LBS.
STOP	36"	36"	32"	12"	11"	5"	30"	N/A	14.80
	48"	48"	42"	12"	16"	5"	20"	N/A	19.40
YIELD	60" TRIANGLE		48"	12"	19"	5"	N/A	N/A	13.90
			12"	12"	1"	5"	35"		
SQUARE AND RECTANGULAR SIGNS	36"	48"	32"	12"	11"	5"	42"	N/A	14.80
	48"	60"	32"	12"	11"	5"	27"	54"	22.20
	36"	36"	32"	12"	11"	5"	30"	N/A	14.80
	48"	48"	44"	12"	17"	5"	42"	N/A	22.30
	48"	36"	32"	12"	11"	5"	30"	N/A	14.80
	72"	36"	62"	12"	26"	5"	18"	N/A	28.60
	72"	48"	62"	12"	26"	5"	30"	N/A	28.60
	48"	30"	32"	12"	11"	5"	24"	N/A	14.80
	72"	30"	62"	12"	26"	5"	24"	N/A	28.60
	36"	24"	32"	12"	11"	5"	18"	N/A	14.80
	36"	30"	32"	12"	11"	5"	24"	N/A	14.80
WARNING & AUXL. SIGNS	36" DIAMOND		26"	12"	8"	5"	16"	N/A	12.00
	18"	18"	*	*	*	*	*		
	48" DIAMOND		42"	12"	16"	5"	20"	N/A	19.40
	24"	24"	*	*	*	*	*		
WARNING	36" DIAMOND		26"	12"	8"	5"	16"	N/A	12.00
	48" DIAMOND		42"	12"	16"	5"	20"	N/A	19.40
WARNING LARGE ARROW	48"	24"	42"	12"	16"	5"	18"	N/A	19.40
	60"	36"	44"	12"	17"	5"	30"	N/A	20.40
JUNCTION ASSEMBLY	21"	15"	*	*	*	*	POST TOP CLIP NOT REQ'D-COVER ℄ ONLY		
	2-24"ROUTE MARKERS		27"	12"	8½"	5"	20"	38"	12.50
SINGLE CARDINAL DIRECT'L ASSY.	30"	15"	26"	12"	8"	5"	N/A	N/A	15.20
	36"	36"	26"	12"	8"	5"	13½"	N/A	
			12"	12"	1"	5"	N/A	38½"	
JUNCTION ASSEMBLY	21"	15"	*	*	*	*	POST TOP CLIP NOT REQ'D-COVER ℄ ONLY		
	3-24"ROUTE MARKERS		54"	12"	21"	5"	20"	38"	25.00

NOTES:
1. WEIGHTS OF BRACE ANGLES DO NOT INCLUDE GALVANIZING.
2. ALL BRACE ANGLES SHALL BE 1¾" x 1¾" x ¼" AT 2.77 LBS./FT.
* 3. THE AUXILIARY SIGNS SHALL BE ATTACHED BY DRILLING THE POST WITH TWO HOLES AND FLUSH MOUNT THE SIGN TO THE FACE OF THE POST.
4. REFER TO STANDARD DRAWING 616-6.
5. WHEN ONLY ONE BRACE IS REQUIRED, PLACE IN THE CENTER OF THE SIGN.



BRACE ANGLE ATTACHMENT DETAIL

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

PROFESSIONAL ENGINEER REGISTERED ORIGINAL SIGNED BY: CARL D. MAIN DECEMBER 6, 2011 STATE OF IDAHO CARL D. MAIN 6200

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	08-96	HEB	6	12-13	HEB			
2	12-01	NQB						
3	12-07	HEB						
4	07-10	HEB						
5	09-11	HEB						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 616-16_1213.dgn

DRAWING DATE: DECEMBER, 2007

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: RYAN LANCASTER *for*
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

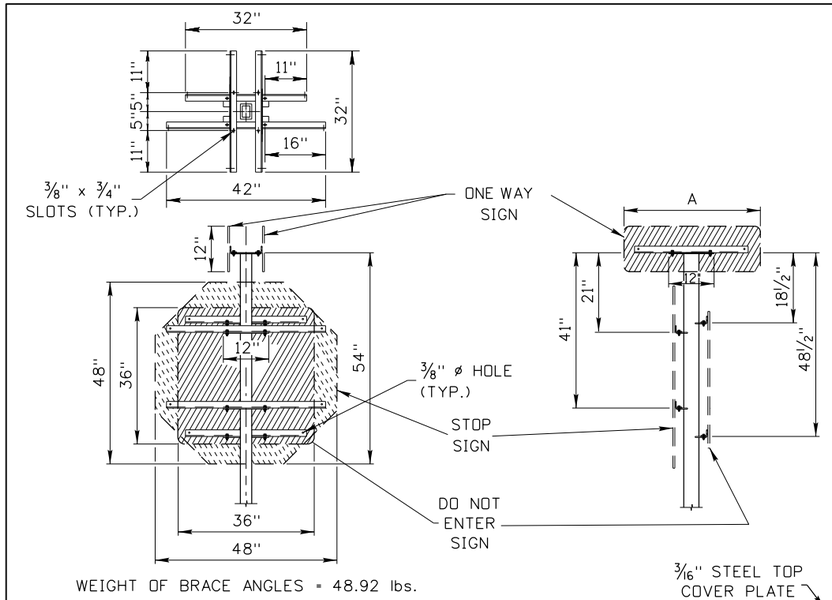
B POST AND BRACE ANGLE DETAIL

English

STANDARD DRAWING NO.

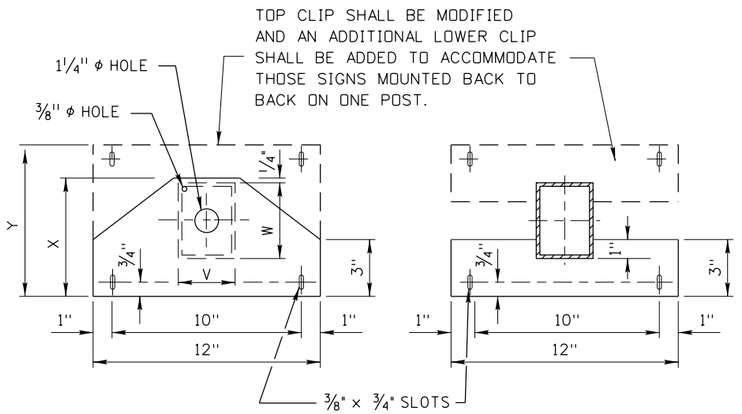
616-16

SHEET 1 OF 2



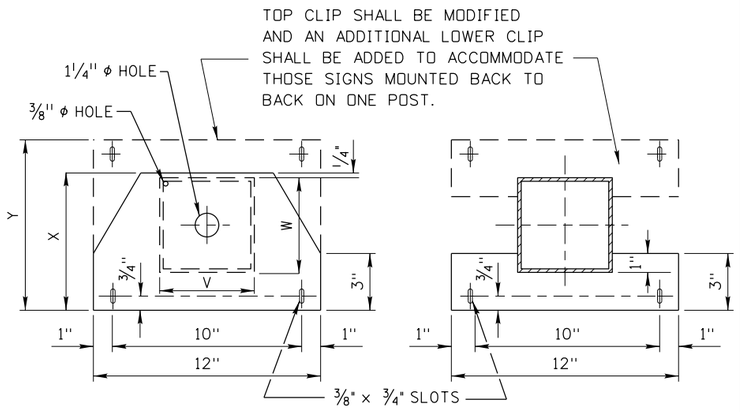
WEIGHT OF BRACE ANGLES = 48.92 lbs.

RAMP TERMINAL
ASSEMBLY "A"



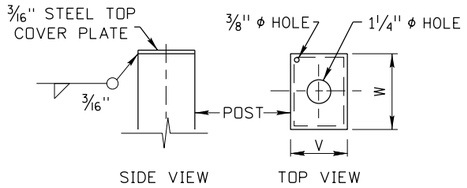
B-2 POST TOP CLIP DETAIL
TOP VIEW

B-2 POST LOWER CLIP DETAIL
SECTION A-A



B-3 & B-4 POST TOP CLIP DETAIL
TOP VIEW

B-3 & B-4 POST LOWER CLIP DETAIL
SECTION A-A



SIDE VIEW TOP VIEW

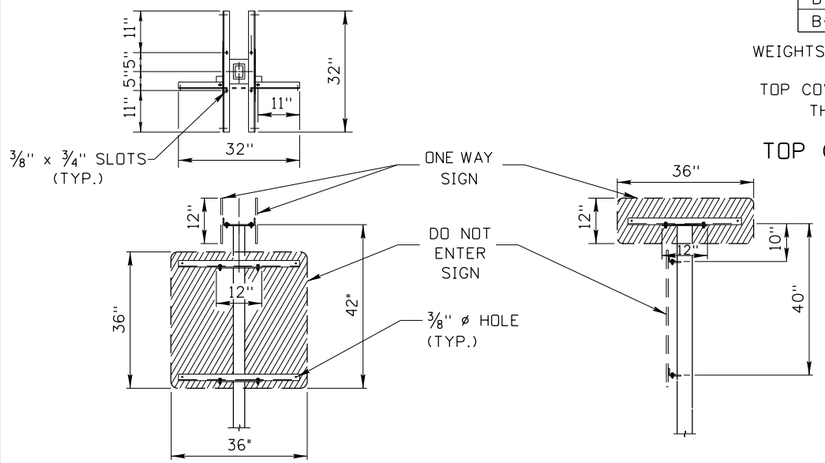
Post Type	Post		Top Clip	
	V	W	X	Y
B-2	3"	4"	6 1/4"	8"

Post Type	Post		Weight. in Lbs. for cover plate
	V	W	
B-2	3"	4"	0.55
B-3	4"	6"	1.25
B-4	4"	8"	1.80

WEIGHTS DO NOT INCLUDE GALVANIZING

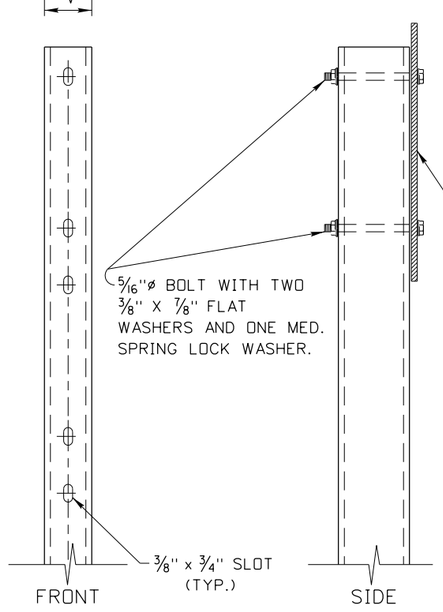
TOP COVER PLATE IS REQUIRED WHEN THERE IS NOT A TOP CLIP

TOP COVER PLATE DETAILS

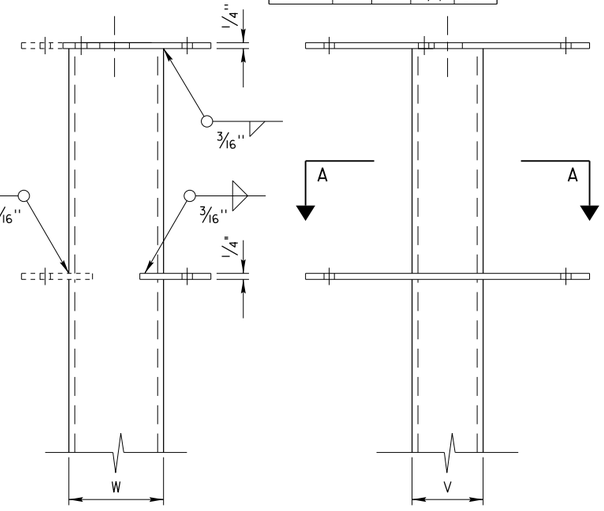


WEIGHT OF BRACE ANGLES = 29.56 lbs.

RAMP TERMINAL
ASSEMBLY "B"



TYPE B-2 POST



SIDE FRONT

TYPE B-2, B-3, B-4 POSTS

Post Type	Post		Top Clip	
	V	W	X	Y
B-3	5"	5"	7 1/4"	9"
B-4	6"	6"	8 1/4"	10"

WEIGHT SCHEDULE			
Post Type	Wt. in Lbs. for lower clip - each	Weight. in Lbs. for top clip - each	Weight for modified top clip - each
B-2	2.55	5.32	6.82
B-3	2.55	6.18	7.67
B-4	2.55	7.03	8.52

WEIGHTS DO NOT INCLUDE GALVANIZING

NOTES:
1. REFER TO STANDARD DRAWING 616-6.
2. POST WEIGHTS SHALL INCLUDE THE WEIGHT OF THE CLIPS OR COVER PLATES IF USED.

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

PROFESSIONAL ENGINEER REGISTERED 6260 STATE OF IDAHO CARL D. MAIN
ORIGINAL SIGNED BY: CARL D. MAIN
DATE OF ORIGINAL SIGNATURE: DECEMBER 6, 2007

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	08-96	HEB	6	09-11	HEB			
2	02-98	HEB	7	12-13	HEB			
3	12-01	NQB						
4	12-07	HEB						
5	07-10	HEB						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 616-16_1213.dgn

DRAWING DATE: DECEMBER, 2007

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: RYAN LANCASTER *for*
DESIGN/TRAFFIC SERVICES ENGINEER

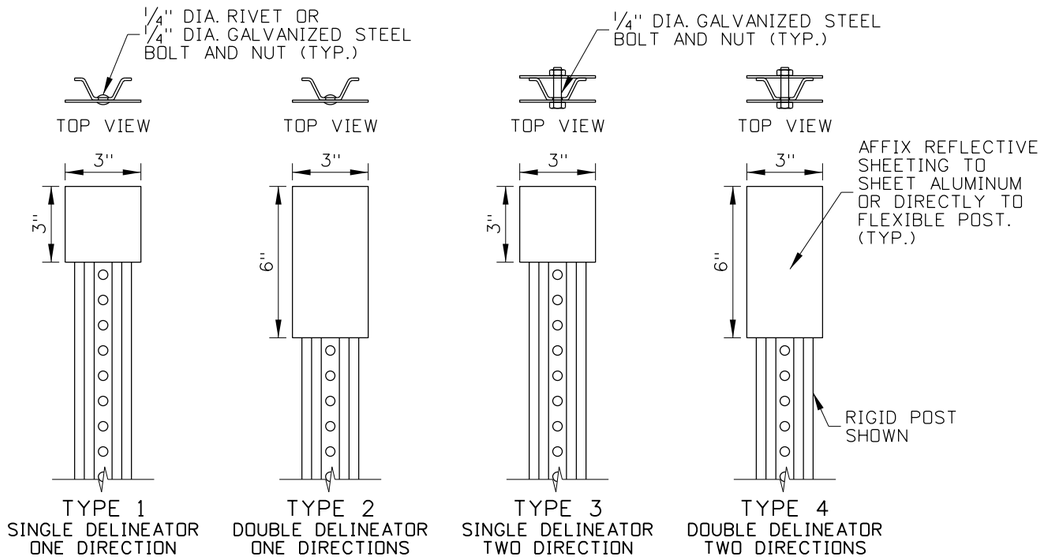
STANDARD DRAWING

B POST AND BRACE ANGLE DETAIL

English

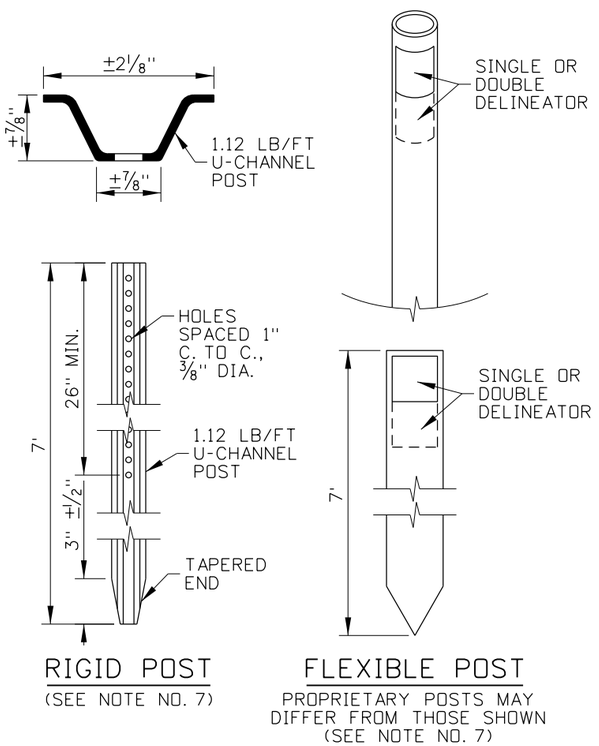
STANDARD DRAWING NO.
616-16

SHEET 2 OF 2



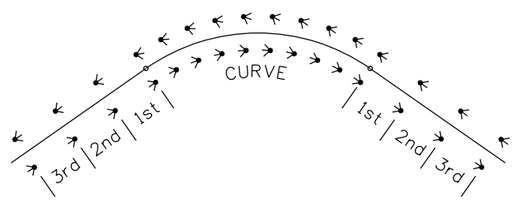
DELINEATOR TYPES

TYPE 9 NOT SHOWN
(SEE NOTE NO. 9)



RIGID POST
(SEE NOTE NO. 7)

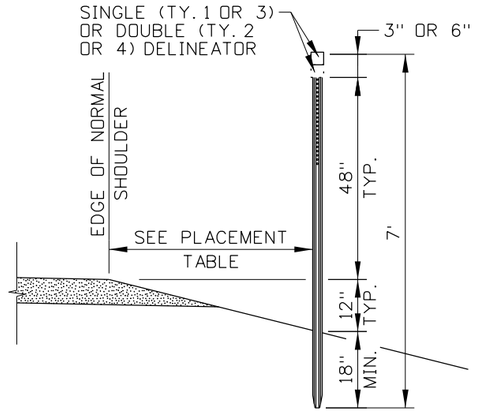
FLEXIBLE POST
PROPRIETARY POSTS MAY
DIFFER FROM THOSE SHOWN
(SEE NOTE NO. 7)



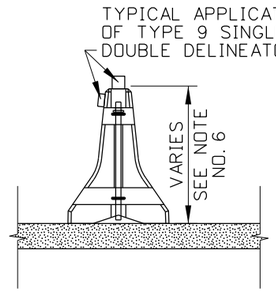
HORIZONTAL CURVE

(SEE NOTE NO. 2)

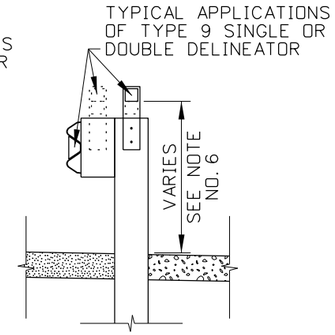
HORIZONTAL CURVE SPACING TABLE				
RADIUS OF CURVE (FEET)	APPROXIMATE SPACING ON CURVE (FEET)	1st SPACE FROM CURVE (FEET)	2nd SPACE FROM CURVE (FEET)	3rd SPACE FROM CURVE (FEET)
50	20	40	60	120
115	25	50	75	150
180	35	70	105	210
250	40	80	120	240
300	50	100	150	300
400	55	110	165	300
500	65	130	195	300
600	70	140	210	300
700	75	150	225	300
800	80	160	240	300
900	85	170	255	300
1,000	90	180	270	300
1,500	115	230	300	300
2,500	150	300	300	300
5,000	210	300	300	300
10,000	300	300	300	300
> 10,000	528	528	528	528



SHOULDER SLOPE INSTALLATION
(TYPES 1, 2, 3, OR 4)



CONCRETE BARRIER
(TYPE 9)



W-BEAM GUARDRAIL
(TYPE 9)

DELINEATOR INSTALLATIONS

PLACEMENT TABLE	
SHOULDER TYPE	OFFSET
2:1 SLOPE	2'
4:1 SLOPE	4'
6:1 OR FLATTER	6' TO 8'
CURB SECTION	6' TO 8'
GUARDRAIL OR CONCRETE BARRIER	VARIES

NOTES

1. MATCH THE DELINEATOR COLOR TO THE ADJACENT PAVEMENT MARKINGS. USE RED DELINEATORS ON TRUCK ESCAPE RAMPS OR ON THE REVERSE SIDE OF A DELINEATOR TO INDICATE TRAVEL IN THE WRONG DIRECTION ON DIVIDED OR ONE-WAY HIGHWAYS.
2. SPACE DELINEATORS 528 FEET (0.1 MI.) APART ON MAINLINE TANGENT SECTIONS. SPACE DELINEATORS ON CURVES IN ACCORDANCE WITH THE HORIZONTAL CURVE SPACING TABLE. SPACE DELINEATORS 100 FEET APART ON RAMP TANGENT SECTIONS. SPACE RED DELINEATORS ON TRUCK ESCAPE RAMPS AT 50 FOOT INTERVALS.
3. DELINEATE ACCELERATION AND DECELERATION LANES WITH DOUBLE DELINEATORS SPACED AT 100 FOOT INTERVALS.
4. DELINEATE GUARDRAIL AND CONCRETE BARRIERS. SPACING MAY BE REDUCED ON GUARDRAIL AND CONCRETE BARRIER TO FORM A CONTINUOUS OR NEARLY CONTINUOUS "RIBBON" OF DELINEATION.
5. WHEN UNIFORM SPACING IS INTERRUPTED BY DRIVEWAYS, INTERSECTIONS, OR OTHER FEATURES, RELOCATE THE DELINEATOR NOT FURTHER THAN ONE QUARTER OF THE UNIFORM SPACING. DELINEATORS CAN BE OMITTED WHEN STILL FALLING WITHIN THESE FEATURES.
6. MEASURE DELINEATOR HEIGHT VERTICALLY FROM THE BOTTOM OF THE LOWEST REFLECTIVE DEVICE TO THE ELEVATION OF THE EDGE OF NORMAL SHOULDER. DELINEATORS ATTACHED TO GUARDRAIL, GUARDRAIL POSTS, OR CONCRETE BARRER CAN BE INSTALLED LOWER THAN 48".
7. USE RIGID OR FLEXIBLE POSTS FOR TYPES 1, 2, 3, AND 4. SEE PROJECT PLANS FOR SPECIFIC INSTRUCTIONS.
8. ON GUARDRAIL AND CONCRETE BARRIERS, USE TYPE 9 DELINEATORS OR TYPE 1, 2, 3, OR 4 DELINEATORS BEHIND THE BARRIER.
9. TYPE 9 DELINEATORS VARY IN SHAPE AND CAN BE ATTACHED TO THE TOP OR SIDE OF W-BEAM GUARDRAIL, GUARDRAIL POSTS, OR CONCRETE BARRIER. IF "BUTTERFLY" STYLE GUARDRAIL DELINEATORS ARE USED, ENSURE THE DELINEATORS ARE PLASTIC.
10. DRAWINGS NOT TO SCALE.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 ORIGINAL SIGNED BROADCAST MARCH 9, 2022

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	06-05	MSM	6	05-18	RDL			
2	11-11	TEM	7	03-21	RDL			
3	04-14	RDL	8	02-22	RDL			
4	03-15	PJF						
5	05-16	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 617-1_0422.dgn

DRAWING DATE: DECEMBER, 2002

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

DELINEATORS

English

STANDARD DRAWING NO.
617-1

SHEET 1 OF 1

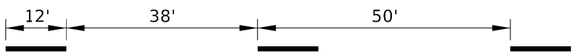
LONGITUDINAL PAVEMENT MARKING LINES

SOLID LINE

COLOR: WHITE OR YELLOW
WIDTH: NORMAL (4" TO 6") OR WIDE (2X NORMAL WIDTH)

DOUBLE LINE

COLOR: WHITE OR YELLOW
WIDTH: NORMAL (4" TO 6" LINE, 3" GAP, 4" TO 6" LINE)

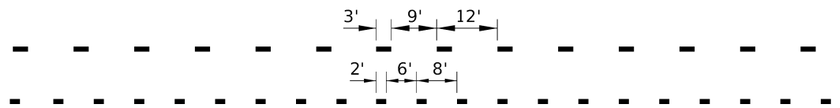


BROKEN LINE

COLOR: WHITE OR YELLOW
WIDTH: NORMAL (4" TO 6" LINE)

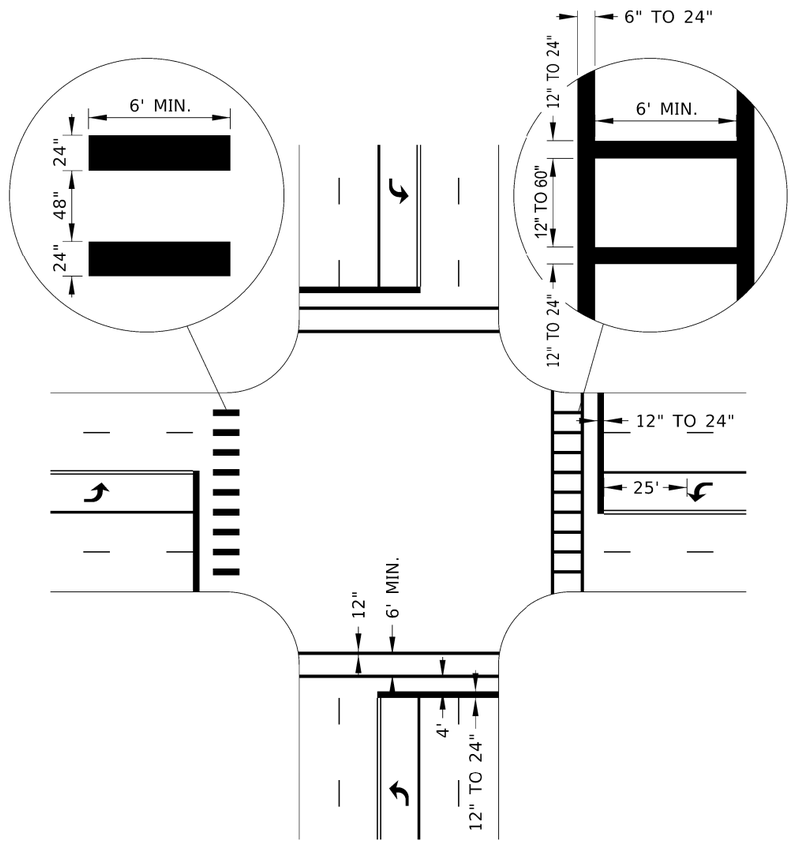
COMBINATION SOLID AND BROKEN LINE

COLOR: YELLOW
WIDTH: NORMAL (4" TO 6" LINE, 3" GAP, 4" TO 6" LINE)



DOTTED LINE

3' LINE SEGMENT, 9' GAP OR 2' LINE SEGMENT, 6' GAP (SEE NOTE NO. 2)
COLOR: WHITE OR YELLOW
WIDTH: NORMAL (4" TO 6") OR WIDE (2X NORMAL WIDTH)



EXAMPLE STOP LINE AND CROSSWALK DETAIL

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 ½ 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 ½ 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.

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

PROFESSIONAL ENGINEER
LICENSED
ORIGINAL SIGNED BY
RYAN D. LANCASTER
STATE OF IDAHO
APPROVAL SIGNED
APRIL 9, 2025
STATE OF IDAHO
A36683
RYAN D. LANCASTER

REVISIONS

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

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 630-1_0425.dgn

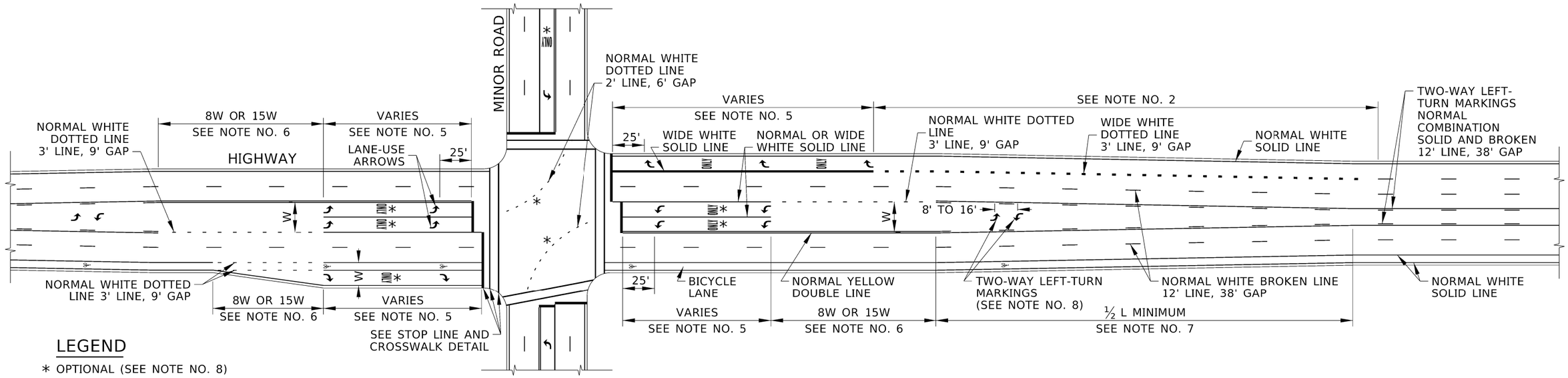
DRAWING DATE: DECEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity
BOISE IDAHO

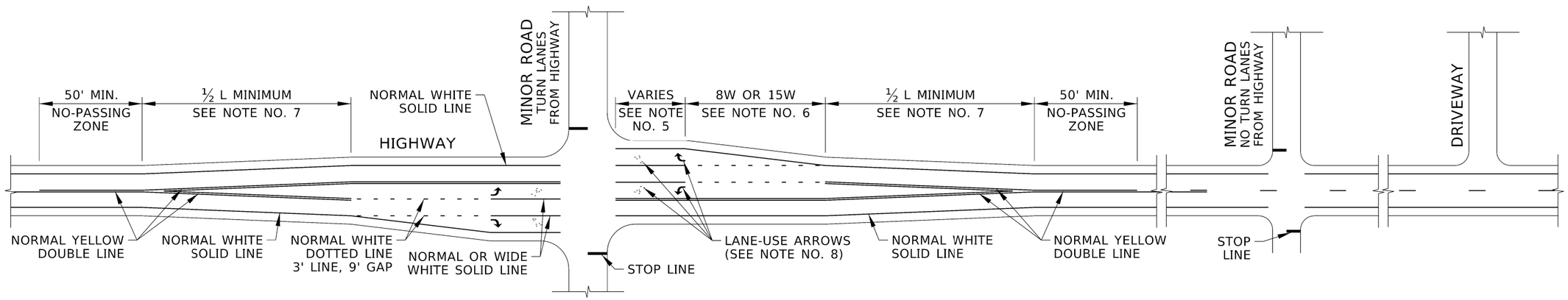
ORIGINAL SIGNED BY: MONICA CRIDER
HIGHWAY DESIGN ENGINEER

STANDARD DRAWING
PAVEMENT MARKINGS

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



EXAMPLE URBAN HIGHWAY PAVEMENT MARKINGS



EXAMPLE RURAL HIGHWAY PAVEMENT MARKINGS

SEE NOTE NO. 9

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO ORIGINAL SIGNED BY APPROVED APRIL 9, 2025 13683 RYAN D. LANCASTER

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

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 630-1_0425.dgn

DRAWING DATE: DECEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT
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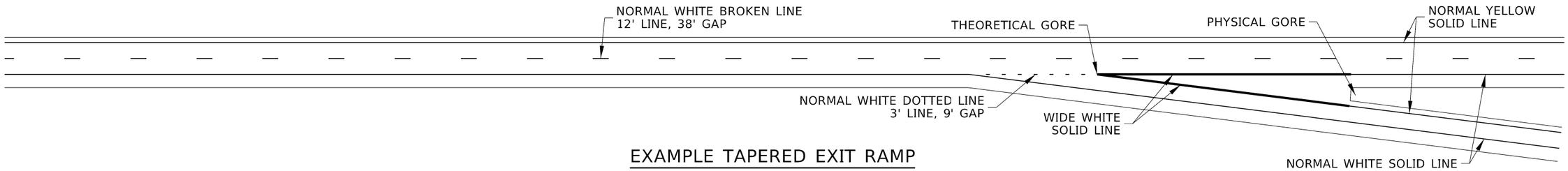
BOISE IDAHO

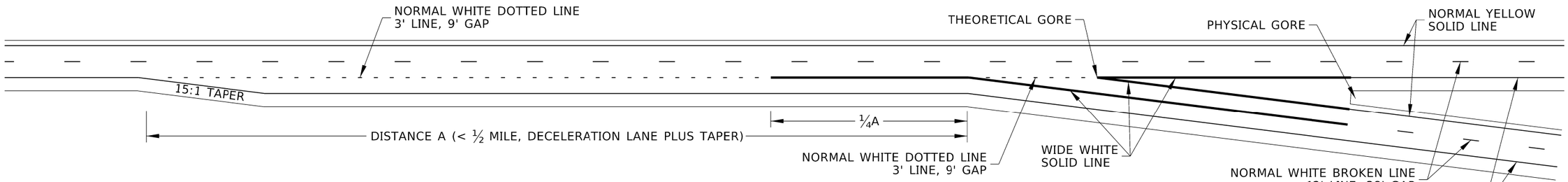
ORIGINAL SIGNED BY: MONICA CRIDER
HIGHWAY DESIGN ENGINEER

STANDARD DRAWING
PAVEMENT MARKINGS

ENGLISH
STANDARD DRAWING NO.
630-1
SHEET 2 OF 4

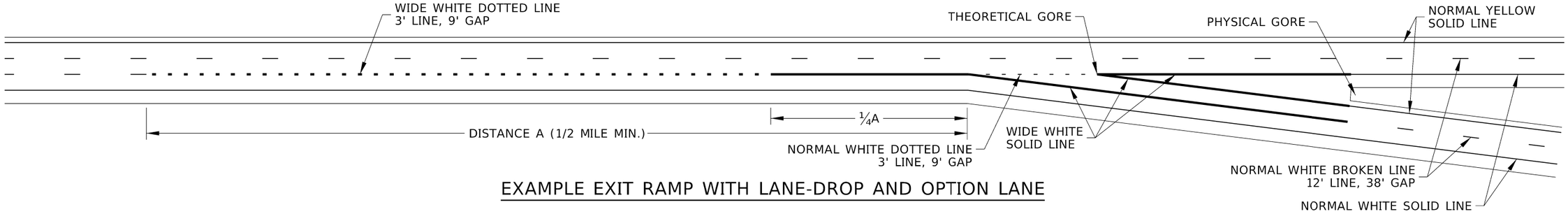


EXAMPLE TAPERED EXIT RAMP

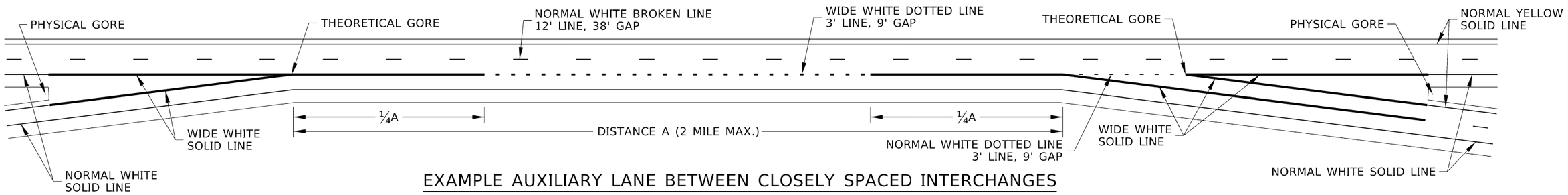


EXAMPLE PARALLEL EXIT RAMP WITH OPTION LANE

SEE NOTE NO. 10



EXAMPLE EXIT RAMP WITH LANE-DROP AND OPTION LANE



EXAMPLE AUXILIARY LANE BETWEEN CLOSELY SPACED INTERCHANGES

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO ORIGINAL SIGNED BY: RYAN D. LANCASTER APPROVAL SIGNATURE DATE: APR. 9, 2025 13683 RYAN D. LANCASTER

REVISIONS

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

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

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

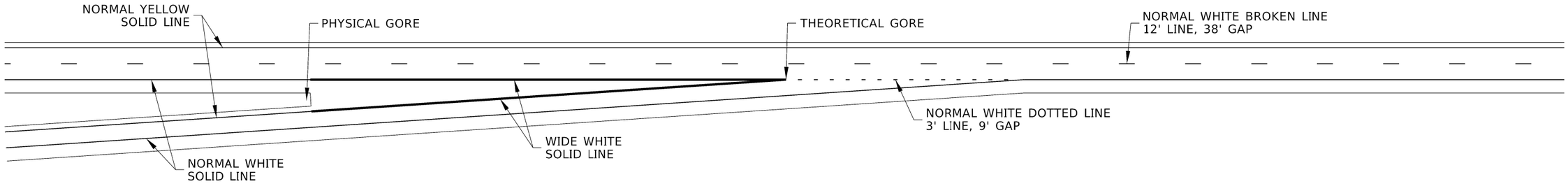
HIGHWAY DESIGN ENGINEER

STANDARD DRAWING

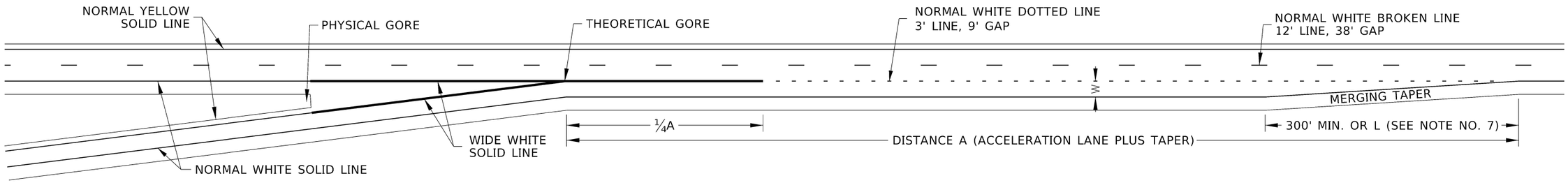
PAVEMENT MARKINGS

ENGLISH

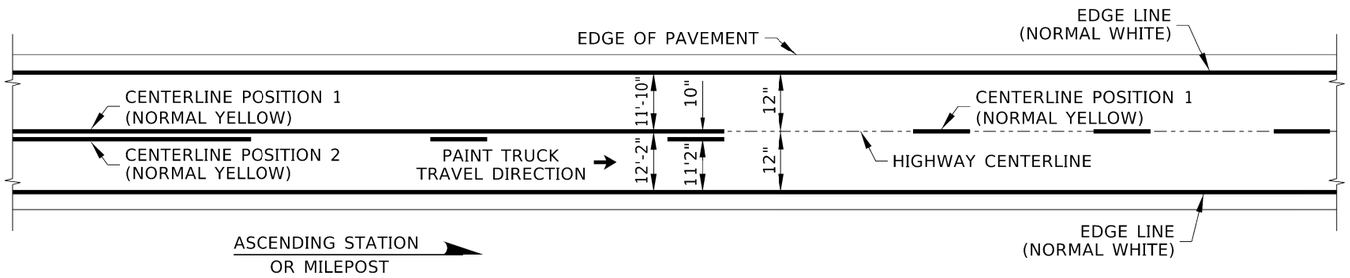
STANDARD DRAWING NO. 630-1



EXAMPLE TAPERED ENTRANCE RAMP

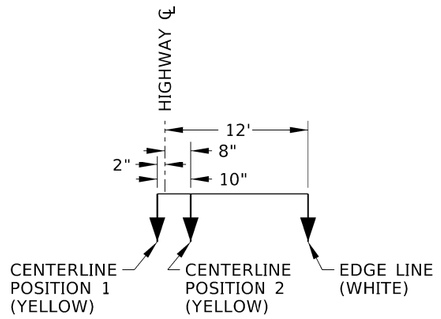


EXAMPLE PARALLEL ENTRANCE RAMP



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						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 630-1_0425.dgn

DRAWING DATE: DECEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT
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BOISE IDAHO

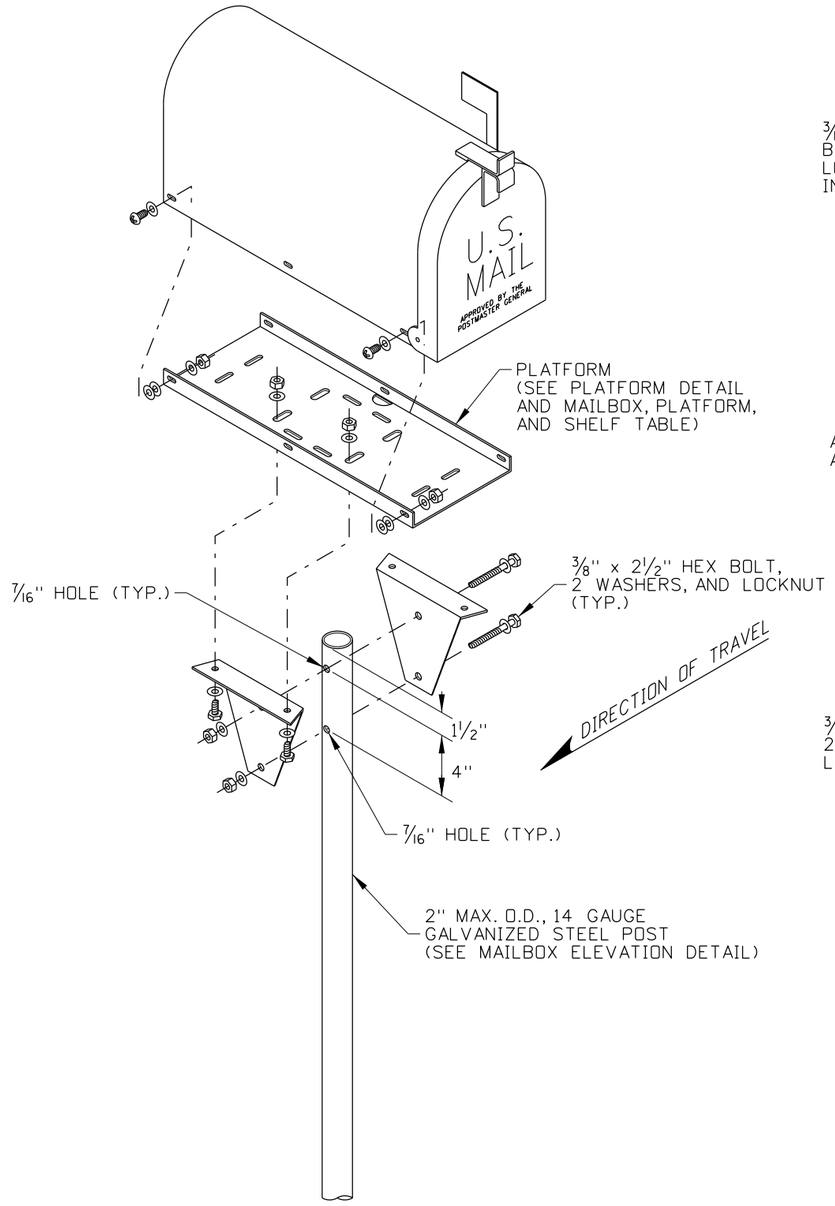
ORIGINAL SIGNED BY: MONICA CRIDER
HIGHWAY DESIGN ENGINEER

STANDARD DRAWING
PAVEMENT MARKINGS

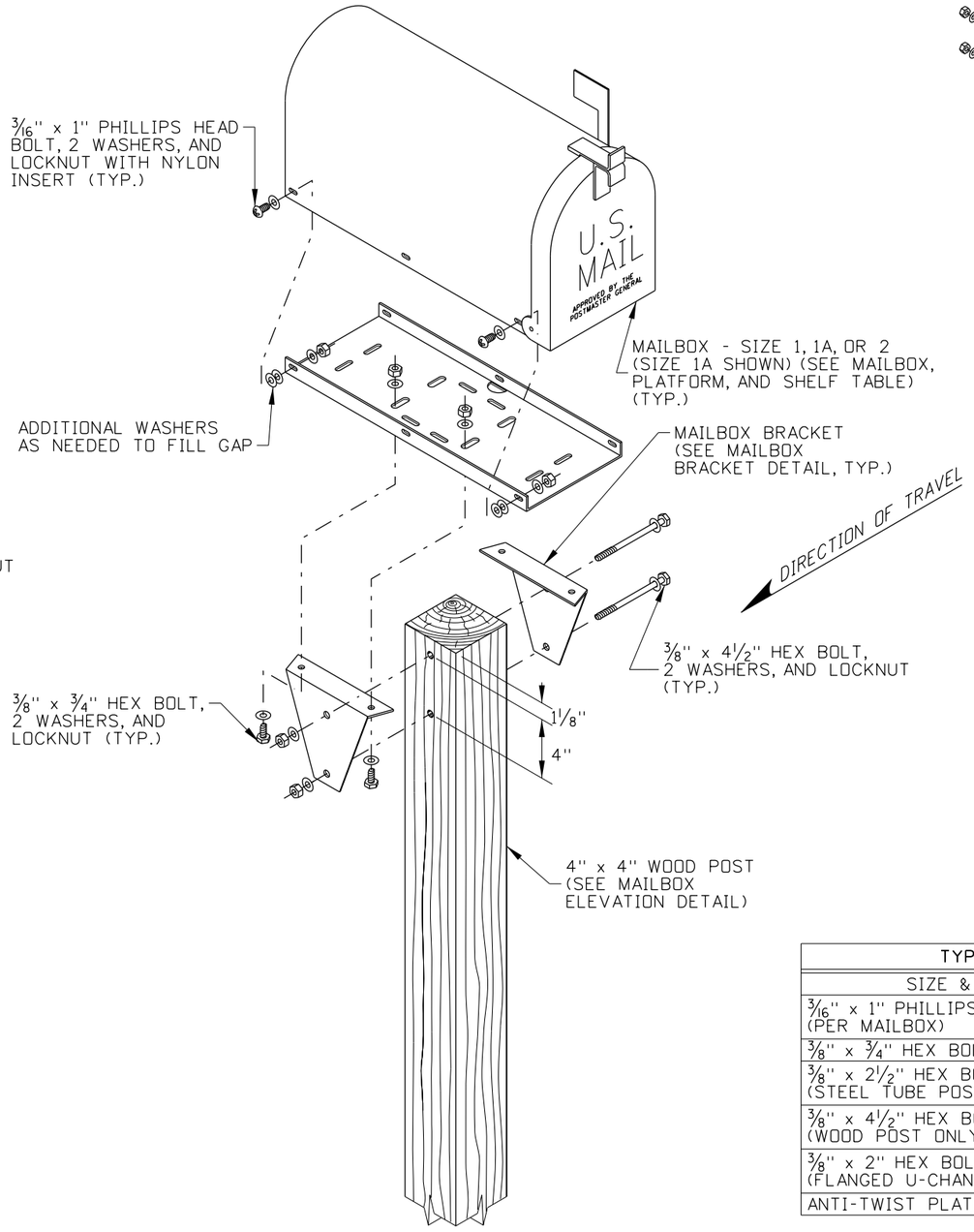
ENGLISH
STANDARD DRAWING NO.
630-1
SHEET 4 OF 4

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

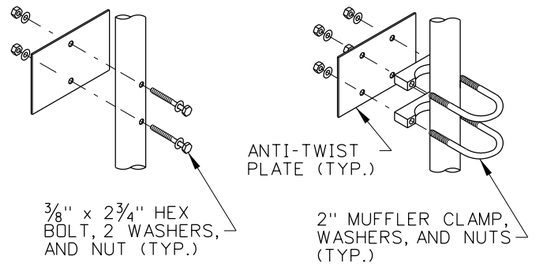
PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO ORIGINAL SIGNED BY RYAN D. LANCASTER APRIL 9, 2025 A13683 RYAN D. LANCASTER

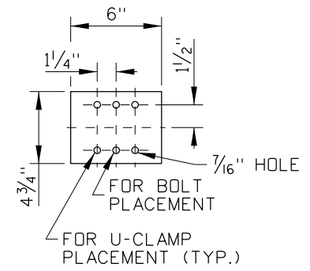


TYPE A ASSEMBLY
STEEL TUBE POST



TYPE A ASSEMBLY
WOOD POST





ANTI-TWIST PLATE DETAIL

TYPE A ASSEMBLY FASTENERS TABLE			
SIZE & TYPE	QUANTITY	WASHERS	LOCKNUTS
3/16" x 1" PHILLIPS HEAD BOLTS (PER MAILBOX)	4 MIN.	8 MIN.	4 MIN.
3/8" x 3/4" HEX BOLT (BRACKET)	4	8	4
3/8" x 2 1/2" HEX BOLT (STEEL TUBE POST ONLY)	2	4	2
3/8" x 4 1/2" HEX BOLT (WOOD POST ONLY)	2	4	2
3/8" x 2" HEX BOLT (FLANGED U-CHANNEL POST ONLY)	2	4	2
ANTI-TWIST PLATE ASSEMBLY	SEE ANTI-TWIST PLATE DETAIL		

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER 13683 STATE OF IDAHO
ORIGINAL SIGNED BY RYAN D. LANCASTER JANUARY 31, 2013

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	7-92	MSM	6	7-10	MGL			
2	7-02	MSM	7	11-11	TEM			
3	7-05	MSM	8	01-13	RDL			
4	12-05	MSM						
5	10-08	JRV						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 634-1_0113.dgn

DRAWING DATE: SEPTEMBER, 1993

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
HIGHWAYS PROGRAM OVERSIGHT ENGINEER

ORIGINAL SIGNED BY: TOM COLE
CHIEF ENGINEER

STANDARD DRAWING

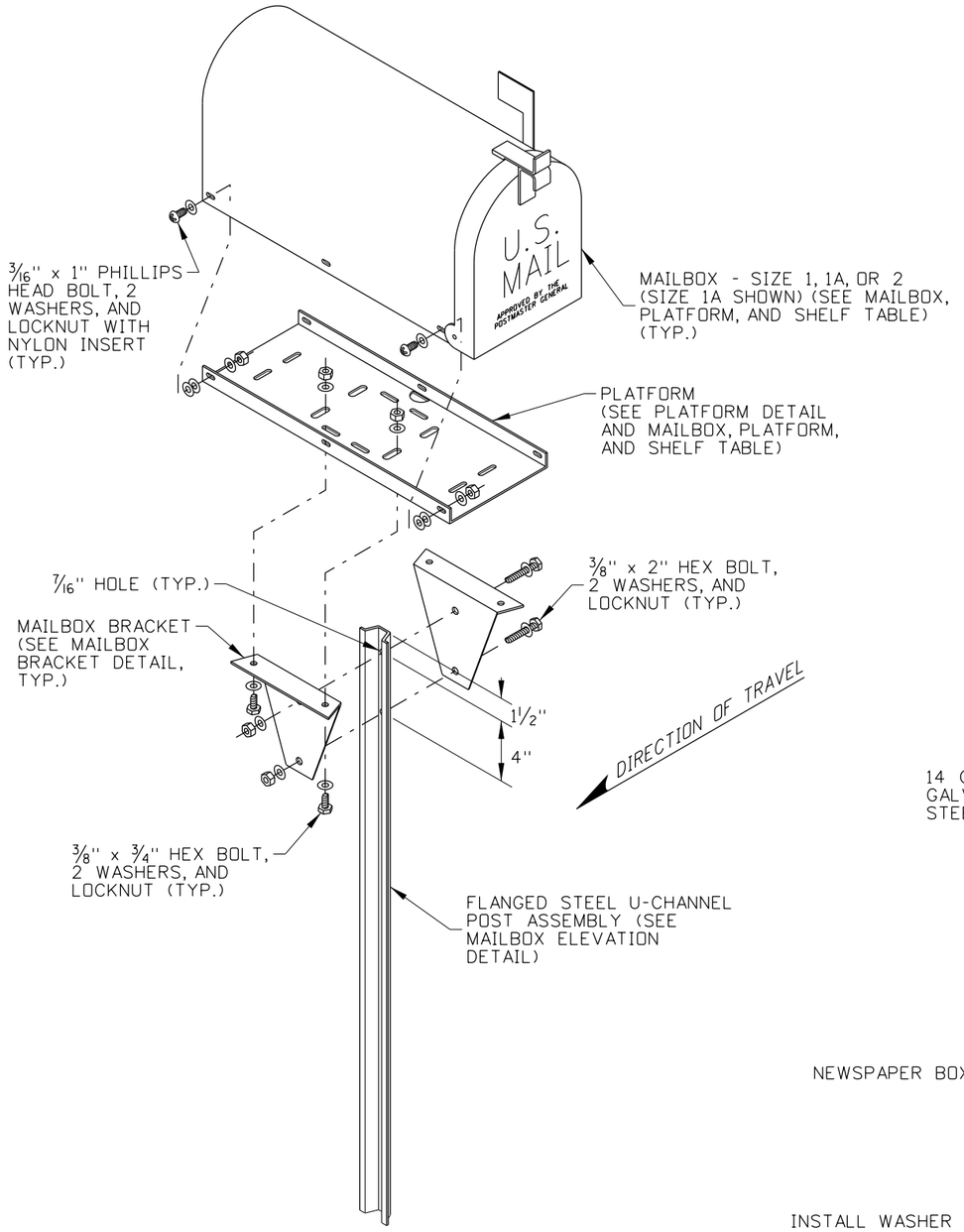
MAILBOXES

English

STANDARD DRAWING NO.

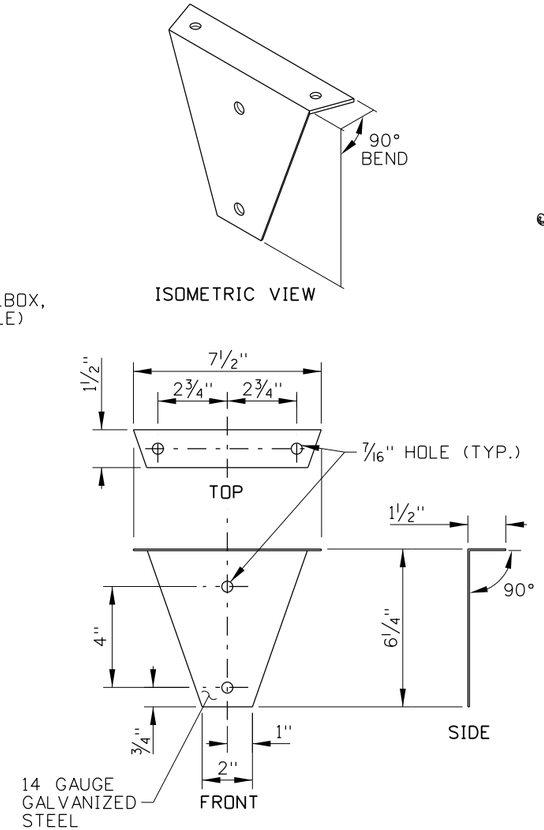
634-1

SHEET 1 OF 5

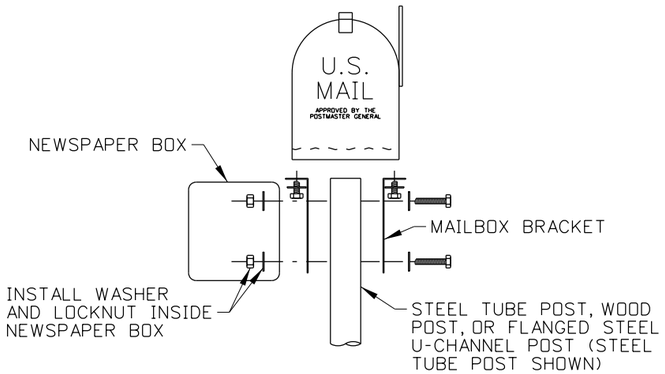


TYPE A ASSEMBLY

FLANGED STEEL U-CHANNEL POST
(2 LB/FT)

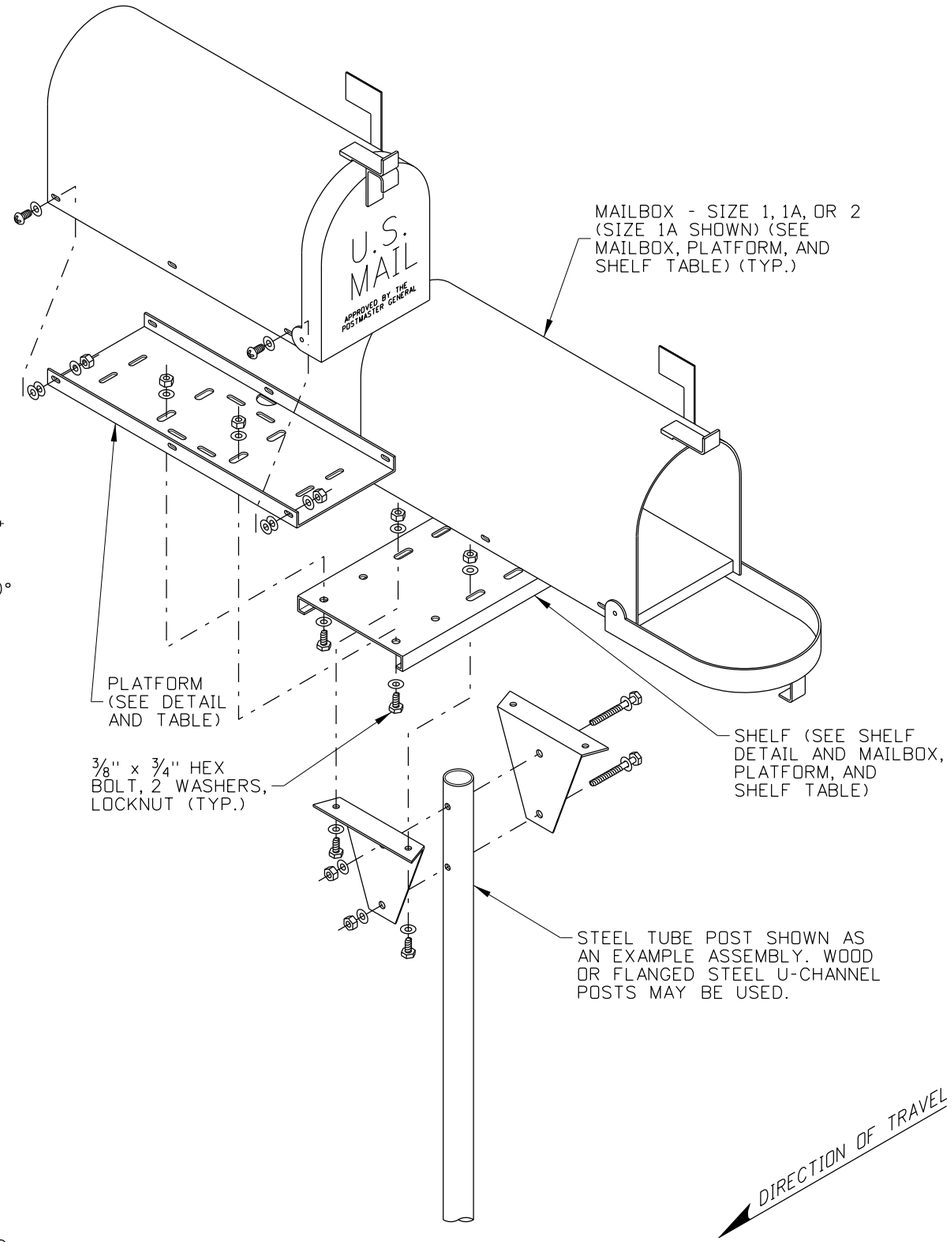


MAILBOX BRACKET DETAIL



NEWSPAPER BOX DETAIL

TYPE A ASSEMBLY



TYPE A ASSEMBLY

DOUBLE MAILBOX ASSEMBLY

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

PROFESSIONAL ENGINEER LICENSED ORIGINAL SIGNED BY RYAN D. LANCASTER STATE OF IDAHO 13683 JANUARY 31, 2008 RYAN D. LANCASTER

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	7-92	MSM	6	7-10	MGL			
2	7-02	MSM	7	11-11	TEM			
3	7-05	MSM	8	01-13	RDL			
4	12-05	MSM						
5	10-08	JRV						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 634-1_0113.dgn

DRAWING DATE: SEPTEMBER, 1993

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
HIGHWAYS PROGRAM OVERSIGHT ENGINEER
ORIGINAL SIGNED BY: TOM COLE
CHIEF ENGINEER

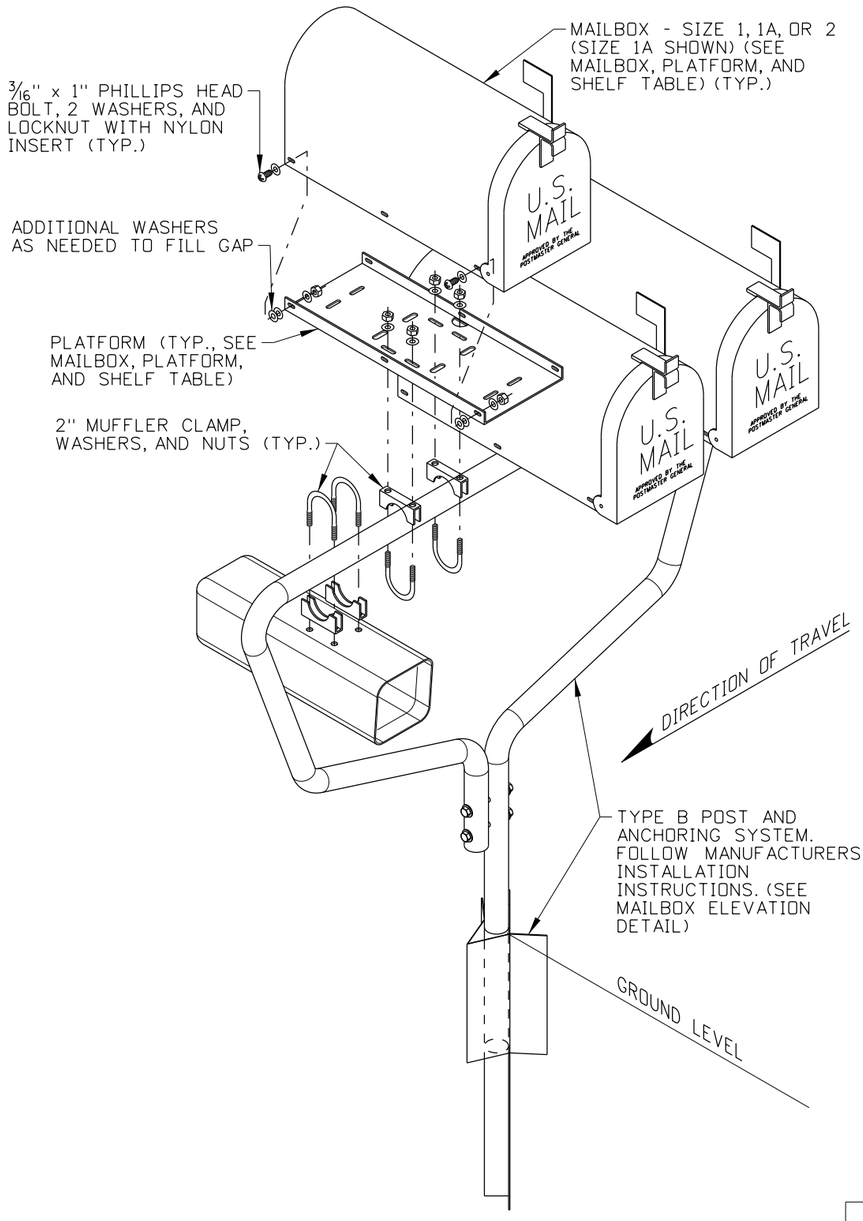
STANDARD DRAWING

MAILBOXES

English

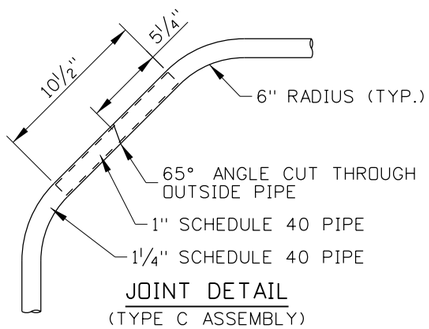
STANDARD DRAWING NO.

634-1

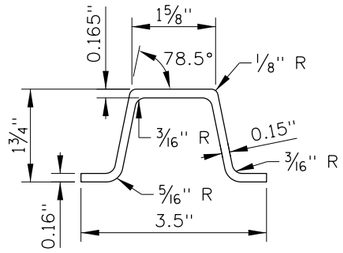


TYPE B ASSEMBLY

TYPE B ASSEMBLY FASTENERS TABLE			
SIZE & TYPE	QUANTITY	WASHERS	LOCKNUTS/NUTS
3/16" x 1" PHILLIPS HEAD BOLT (PER MAILBOX)	4 MIN.	8 MIN.	4 MIN.
2" MUFFLER CLAMP (PER MAILBOX)	2	4	4
2" MUFFLER CLAMP (PER NEWSPAPER BOX)	2	4	2
3/8" x 4 3/4" HEX BOLT (WOOD POST ONLY)	2	4	2
TYPE 2 POST AND ANCHORING SYSTEM	SEE MANUFACTURERS INSTALLATION INSTRUCTIONS		

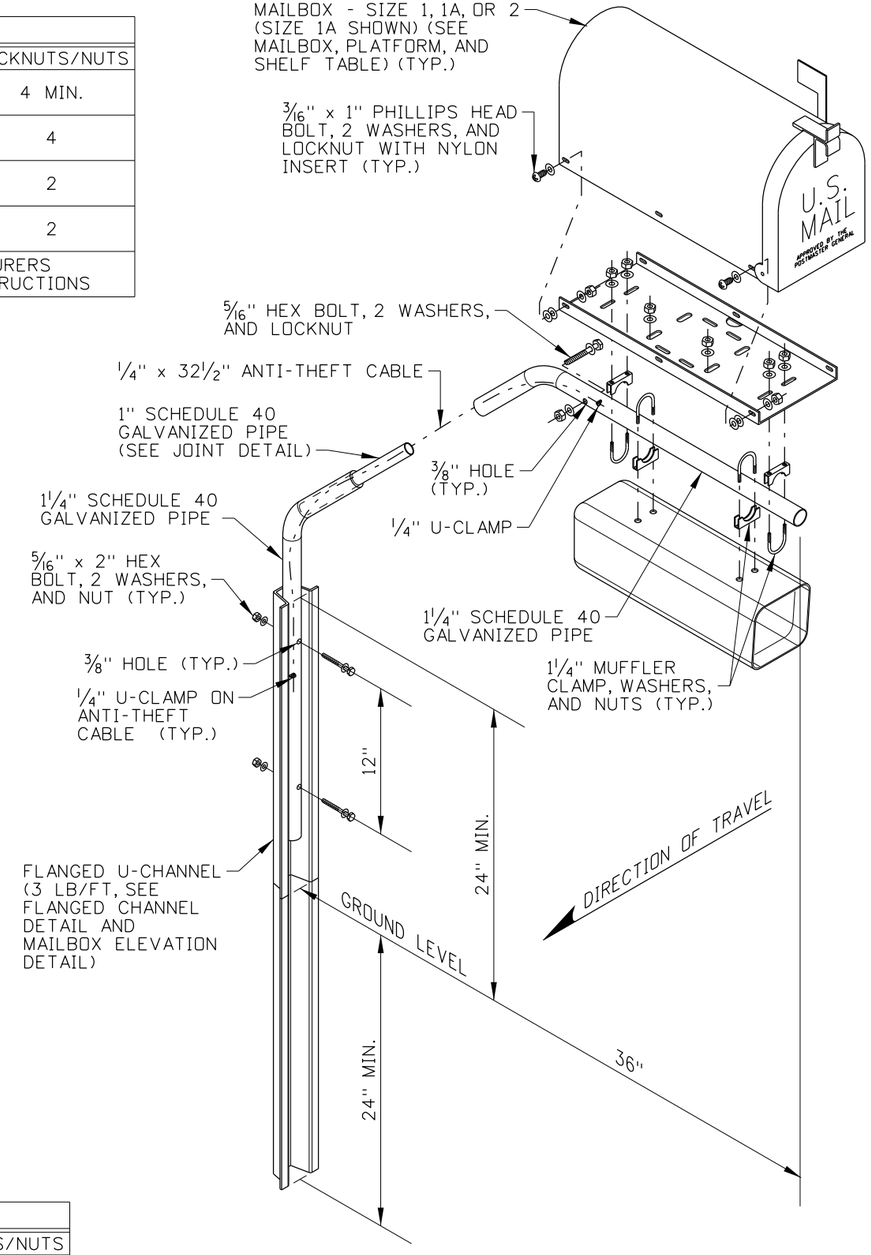


JOINT DETAIL
(TYPE C ASSEMBLY)



FLANGED CHANNEL DETAIL
3 LB/FT
(TYPE C ASSEMBLY)

TYPE C ASSEMBLY FASTENERS TABLE			
SIZE & TYPE	QUANTITY	WASHERS	LOCKNUTS/NUTS
3/16" x 1" PHILLIPS HEAD BOLT	4 MIN.	8 MIN.	4 MIN.
1 1/4" MUFFLER CLAMP	2	4	4
5/16" x 2" HEX BOLT	3	6	3
1/4" U-CLAMP	2	0	4



TYPE C ASSEMBLY

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 ORIGINAL SIGNED JANUARY 31, 2013

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
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4	12-05	MSM						
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STANDARD DRAWING

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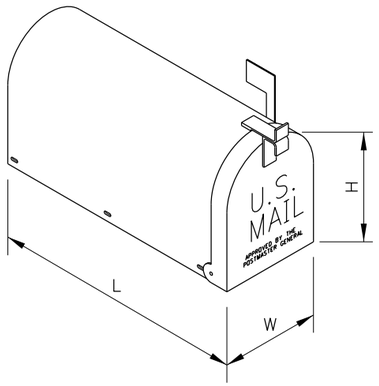
English

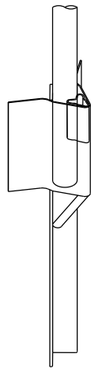
STANDARD DRAWING NO. 634-1

SHEET 3 OF 5

MAILBOX, PLATFORM, AND SHELF TABLE						
MAILBOX SIZE	MAILBOX DIMENSIONS			PLATFORM DIMENSION		SHELF DIM.
	L	W	H	L_P	W_P	L_S
1	19''	6½''	8½''	17''	6''	15''
1-A	21''	8''	10½''	19''	7½''	16½''
2	23½''	11½''	13½''	21''	11''	20''

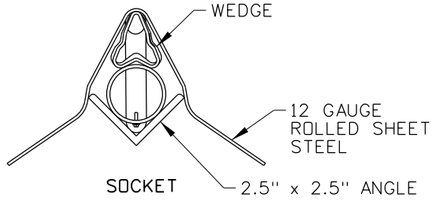


MAILBOX DIMENSIONS



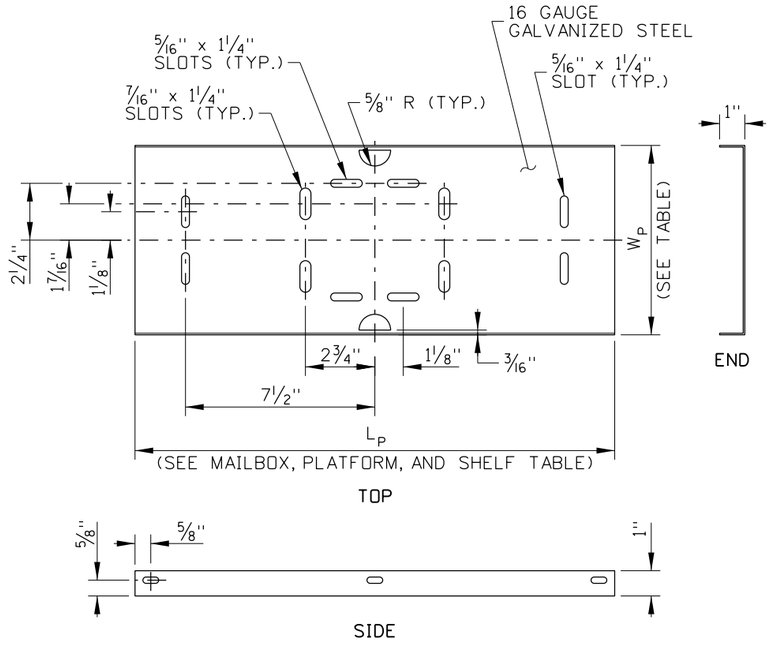
ISOMETRIC VIEW

WEDGE

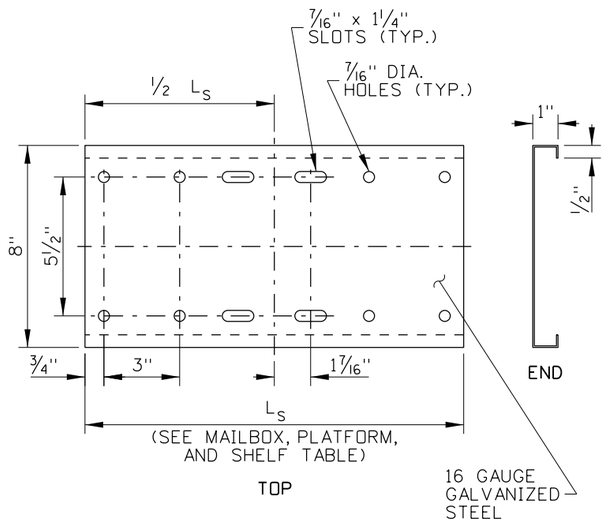


SOCKET AND WEDGE MAILBOX SUPPORT SYSTEM DETAIL

FOR USE WITH TYPE B ASSEMBLY
MAY BE USED WITH TYPE A - STEEL TUBE POST ASSEMBLY
(SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS)



PLATFORM DETAIL
(ONE-PIECE)



SHELF DETAIL
(FOR TYPE A DOUBLE MAILBOX ASSEMBLIES)

NOTES

1. CONSTRUCT MAILBOX ASSEMBLIES IN ACCORDANCE WITH SECTION 634 - MAILBOX OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

2. SEE STANDARD DRAWING 405-2 FOR MAILBOX PLACEMENT.

3. INSTALL THE MAILBOXES AND ASSEMBLIES WITH THE FASTENERS SHOWN IN THE ASSEMBLY FASTENER TABLES. SOME PLATFORM SLOTS AND HOLES MAY REMAIN UNUSED.

4. CENTER THE MAILBOX ON THE PLATFORM AND ENSURE THAT THE MAILBOX DOOR OPENS. SPACING OF MAILBOX MOUNTING HOLES MAY VARY BETWEEN MANUFACTURERS AND ADDITIONAL HOLES MAY BE DRILLED IN THE MAILBOX, PLATFORM, OR BOTH TO ATTACH THE MAILBOX TO THE PLATFORM.

5. COMMERCIALLY AVAILABLE MAILBOXES AND MAILBOX ASSEMBLIES MAY BE SUBSTITUTED FOR THOSE SHOWN IF THEY MEET THE REQUIREMENTS OF THE U.S. POSTMASTER GENERAL AND HAVE SUCCESSFULLY PASSED THE TESTING REQUIREMENTS OF MASH OR NCHRP 350. ADJUSTABLE PLATFORM ALTERNATIVES AND THE SOCKET AND WEDGE MAILBOX SUPPORT SYSTEM ARE EXAMPLES OF COMMERCIALLY AVAILABLE PROPRIETARY SYSTEMS THAT MAY BE ACCEPTABLE ALTERNATIVES. OBTAIN THE ENGINEER'S APPROVAL BEFORE INSTALLING ALTERNATIVE MAILBOXES OR ASSEMBLIES AND INSTALL IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

6. USE AN ANTI-TWIST PLATE, SHOWN ON THE ANTI-TWIST PLATE DETAIL. A SOCKET AND WEDGE MAILBOX SUPPORT SYSTEM MAY BE USED IN LIEU OF AN ANTI-TWIST PLATE. IF THE SOCKET AND WEDGE SYSTEM IS USED, FOLLOW THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

7. THE TYPE C ASSEMBLY SHOULD BE USED IN HEAVY SNOW AREAS OR AREAS WHERE SNOW PLOW DAMAGE TO MAILBOXES HAS BEEN OBSERVED OR IS ANTICIPATED.

8. WHEN USED IN HEAVY SNOW AREAS, ONLY ONE MAILBOX IS RECOMMENDED FOR TYPE A ASSEMBLIES. THE TYPE A ASSEMBLY WITH WOOD POSTS IS RECOMMENDED FOR USE IN HEAVY SNOW AREAS. A SNOW SHIELD MAY BE INSTALLED AS SHOWN ON STANDARD DRAWING 634-2.

9. MAILBOX SIZES 1, 1A, AND 2, SHOWN IN THE MAILBOX, PLATFORM, AND SHELF TABLE MAY BE INSTALLED ON THE TYPE A DOUBLE MAILBOX ASSEMBLY IN ANY COMBINATION OF SIZES. WHEN MORE THAN ONE SIZE IS TO BE INSTALLED, USE THE SHELF SIZE FOR THE LARGER MAILBOX.

10. THE TYPE B ASSEMBLY IS A PROPRIETARY SYSTEM THAT MAY BE USED FOR THE INSTALLATION OF TWO OR MORE MAILBOXES. ON TYPE B MAILBOX ASSEMBLIES, INSTALL A MAXIMUM OF FIVE SIZE 1 MAILBOXES, FOUR SIZE 1A MAILBOXES, OR THREE SIZE 2 MAILBOXES. WHEN MORE THAN ONE SIZE IS TO BE INSTALLED, LIMIT THE NUMBER OF MAILBOXES TO THE MAXIMUM NUMBER FOR THE LARGEST SIZE USED.

11. DO NOT INSTALL THE MAILBOX ASSEMBLY IN A CONCRETE FOUNDATION. AN EXCEPTION MAY BE MADE FOR MASH OR NCHRP 350 APPROVED ALTERNATIVE MAILBOX ASSEMBLIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

12. ENSURE THAT PLATFORM, SHELF, AND BRACKETS ARE GALVANIZED IN ACCORDANCE WITH AASHTO M 232.

13. IF USED, ATTACH THE NEWSPAPER BOX TO THE SUPPORT, DIRECTLY UNDER THE MAILBOX. ENSURE THAT NEWSPAPER BOXES DO NOT EXTEND BEYOND THE FRONT OF THE MAILBOX WHEN THE MAILBOX DOOR IS CLOSED. IN HEAVY SNOW AREAS, LOCATE THE NEWSPAPER BOX ON THE TRAILING SIDE OF THE MAILBOX POST. SEE THE NEWSPAPER BOX DETAIL FOR INSTALLATIONS ON TYPE A MAILBOX ASSEMBLIES.

14. ROUND OR GRIND THE CORNERS OF PLATFORMS, SHELVES, BRACKETS, OR OTHER HARDWARE THAT HAS SHARP PROTRUDING EDGES.

15. NOT TO SCALE.

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

PROFESSIONAL ENGINEER LICENSED ORIGINAL SIGNED BY RYAN D. LANCASTER STATE OF IDAHO 13683 JANUARY 31, 2014 RYAN D. LANCASTER

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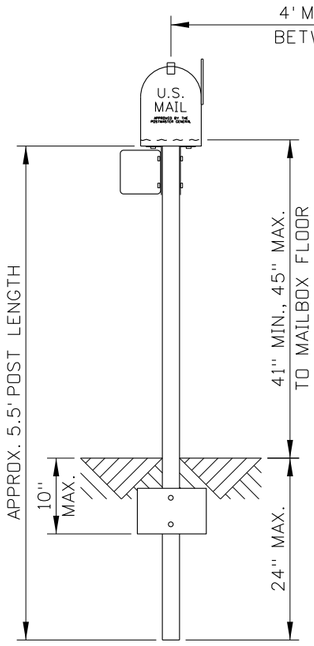
STANDARD DRAWING

MAILBOXES

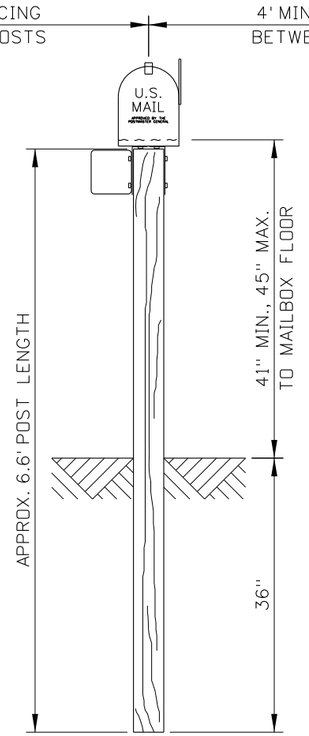
English

STANDARD DRAWING NO. 634-1

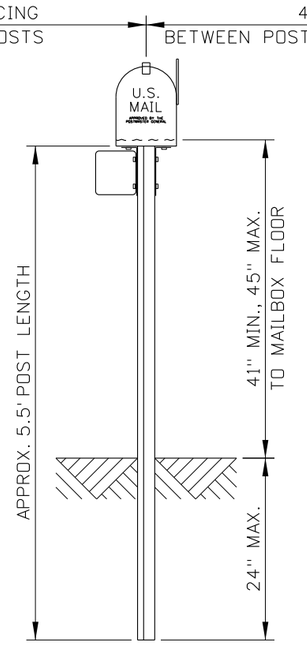
SHEET 4 OF 5



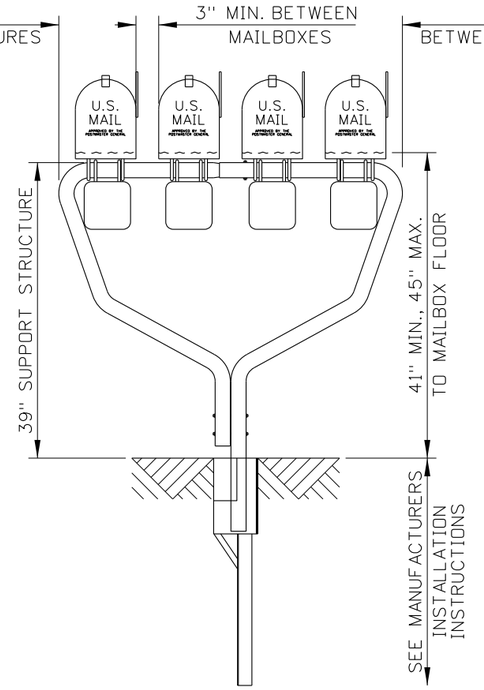
TYPE A ASSEMBLY
STEEL TUBE POST



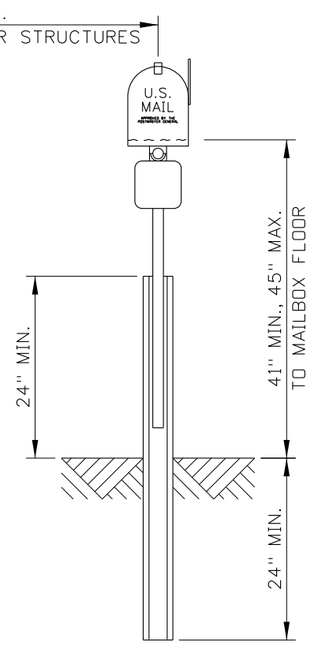
TYPE A ASSEMBLY
WOOD POST



TYPE A ASSEMBLY
FLANGED STEEL U-CHANNEL POST



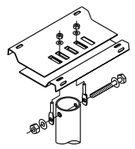
TYPE B ASSEMBLY



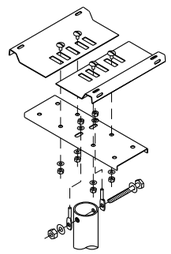
TYPE C ASSEMBLY

DIRECTION OF TRAVEL

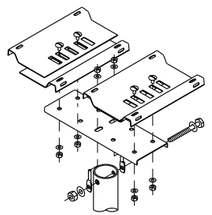
MAILBOX ELEVATION DETAIL



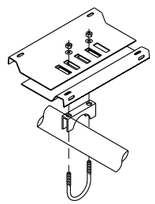
SINGLE MAILBOX ASSEMBLY
(FOR MAILBOXES
SIZES 1 AND 1A)



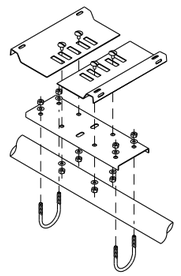
SINGLE MAILBOX ASSEMBLY
(FOR MAILBOX SIZE 2)



DOUBLE MAILBOX ASSEMBLY
(FOR MAILBOXES
SIZES 1 AND 1A)



SINGLE MAILBOX ASSEMBLY
(FOR MAILBOXES
SIZES 1 AND 1A ON
TYPE B ASSEMBLIES)



SINGLE MAILBOX ASSEMBLY
(FOR MAILBOX
SIZE 2 ON TYPE B
ASSEMBLIES)

ADJUSTABLE PLATFORM ALTERNATIVES

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