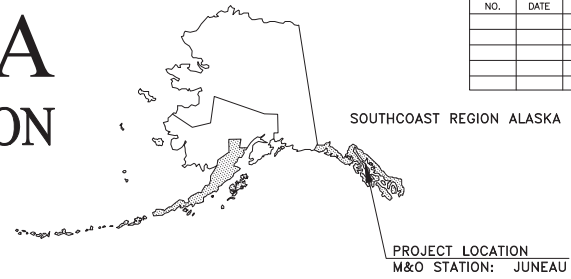


NO.	DATE	REVISIONS	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	A1	19
				ROUTE ID: 4441092X000	MILEPOINT: 4.44		
				LATITUDE: 58.250462	LONGITUDE: -134.30484		

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES



PROPOSED HIGHWAY PROJECT

JNU THANE ROAD 00039 - DEC 20 SE PR PROJECT NO. SDRER00409

GRADING, DRAINAGE, PAVING, STRIPING, AND SIDE SLOPE STABILIZATION

PROJECT SUMMARY	
	THANE RD MP 4.44
WIDTH OF PAVEMENT	22'
LENGTH OF PAVING	440'
LENGTH OF PROJECT	440'

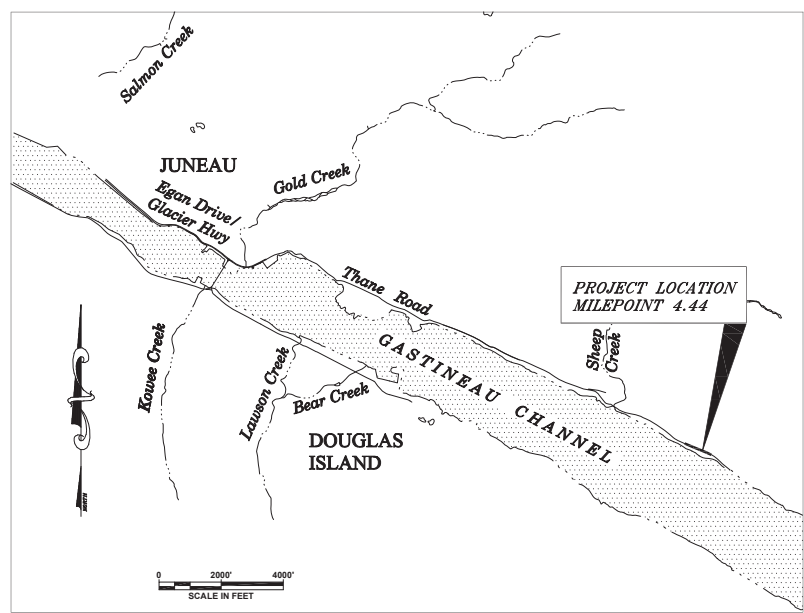
DESIGN DESIGNATIONS	
FUNCTIONAL CLASS	MINOR COLLECTOR
PROJECT TYPE	RECONSTRUCTION
ADT (2020)	430
ADT (2045)	457
DHV (2020)	53
DHV (2045)	56
PERCENT TRUCKS (T)	2.2%
DIRECTIONAL SPLIT (D)	63/37
DESIGN SPEED (V)	35 MPH
DESIGN EAL'S (20 YEARS)	

The undersigned hereby certifies that this duplicated document is an exact and true copy of the original.

Jessica Dinkale

July 20, 2022

Project Engineer: Tina Bergam
 Contractor: SECON
 Begin Work Date: September 9, 2022
 End Work Date: September 23, 2022



USE THESE PLANS IN CONJUNCTION WITH THE STATE OF ALASKA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2020 EDITION AND THE PROJECT SPECIAL PROVISIONS.

STATE OF ALASKA	
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES 6860 GLACIER HIGHWAY, JUNEAU, AK 99801 (907) 465-1763	
Digitally signed by Kirk Miller Date: 2022.05.17 15:33:31 -0800	5/17/22
KIRK MILLER, P.E. REGIONAL PRECONSTRUCTION ENGINEER	DATE
CONCUR: <i>D. Lance Mearig</i>	5/17/22
D. LANCE MEARIG, P.E. DIRECTOR, SOUTHCOAST REGION	DATE

FILE C:\working\west01\2238818\A1_111111.dwg DATE 5/16/2022 11:15 LAYOUT AT DESIGNED CHECKED DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	A2	19

FILE: c:\pwworking\jnu\west01\222388\1\22 LEGEND.dwg
 DATE: 8/16/2022 11:31 AM
 LAYOUT: A2
 DESIGNED: CHECKED: DRAFTED:

	RECOVERED	SET
BLM MONUMENT		
GLO MONUMENT		
USC&GS MONUMENT		
PRIMARY MONUMENT		
CENTERLINE MONUMENT IN CASING		
PRIMARY R.O.W. MONUMENT		
BEARING OBJECT		
MISCELLANEOUS MONUMENT		
LINE OF SIGHT MONUMENT		
CONCRETE R.O.W. MONUMENT		
BENCHMARK		
REBAR AND CAP		
REBAR		
IRON PIPE		
PK NAIL		
SPIKE		
HUB AND TACK		
CONSTRUCTION CENTERLINE		
MISCELLANEOUS CENTERLINE		
STATION EQUATION	$\frac{L}{L}48+97.23 \text{ POT BK} = \frac{0}{0}48+97.23 \text{ PC AHD}$	
PROJECT RIGHT-OF-WAY LINE		
EXISTING RIGHT-OF-WAY LINE		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE		
UTILITY EASEMENT LINE		
TEMPORARY EASEMENT LINE (TCP OR TCE)		
ACCESS OR SECTION LINE EASEMENT		
PROPOSED CUT SLOPE LIMIT		
PROPOSED FILL SLOPE LIMIT		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
TOWNSHIP & RANGE LINE	$\begin{matrix} T. 2. N. \\ T. 1. N. \end{matrix}$	$\begin{matrix} R. 1. E. \\ R. 2. E. \end{matrix}$

	EXISTING	PROPOSED
SANITARY SEWER (FLOW DIRECTION →)	---SS---	→SS→
FUEL LINE	---O---	→O→
GAS LINE	---G---	→G→
WATER LINE	---W---	→W→
METER, VALVE, FIRE HYDRANT		
EXISTING STORM DRAIN (FLOW DIRECTION →)	---SD---	
PROPOSED STORM DRAIN		
FIBER OPTIC LINE	---FO---	
DIRECT BURIAL TELEPHONE CABLE	---T---	---T---
DIRECT BURIAL ELECTRIC CABLE	---E---	---E---
ELECTRIC LINE (OVERHEAD)	---OHE---	---OHE---
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
STUB POLE (POWER OR TELEPHONE)		
TELEPHONE DUCT	===T===	===T===
TELEPHONE PEDESTAL		
BURIED CABLE MARKER		
PIPELINE MARKER OR VALVE		
CATCH BASIN OR DROP INLET		
MANHOLE		
SANITARY SEWER CLEAN OUT		
PRIVATE LUMINAIRE		
ELECTRIC BOX		
PAVEMENT		

Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

 Signature Date 1.20.23

	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE	-----	=====
FENCE	--X--X--X--X--	-X-X-X-X-
CURB AND GUTTER	=====	=====
DETECTABLE WARNINGS		
GUARDRAIL	=====
CULVERT PIPE		
SIGN		
MAILBOX		
RAILROAD TRACKS	+++++	+++++
RAILROAD DEVICES		
CROSS-BUCK		
FLASHING LIGHT		
CANTILEVER		
SWITCH		
TREE LINE		
WATER BOUNDARY	~~~~~	~~~~~
ORDINARY HIGH WATER LINE	-----	-----
FLOW CENTERLINE	-----	-----
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS		
POST OR BOLLARD	•	•
WELL OR MONITORING WELL		
SEPTIC PIPE		
FUEL TANK FILL PIPE/VENT		
SATELLITE DISH		
TEST HOLE		
CONIFER TREE		
DECIDUOUS TREE		
GRAVE	+	+
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		
DELINEATOR/GUIDE MARKER		

	EXISTING	PROPOSED
JUNCTION BOX, TYPE IA		
JUNCTION BOX, TYPE II		
JUNCTION BOX, TYPE III		
SIGNAL FACE, VEHICULAR		
SIGNAL FACE, BACKPLATE		
SIGNAL FACE, LEFT TURN, BACKPLATE		
SIGNAL FACE, PEDESTRIAN		
LOOP DETECTOR		
VIDEO DETECTOR		
RADAR DETECTOR		
OPTICOM DETECTOR		
PEDESTRIAN PUSH BUTTON		
SIGNAL POST W/O MAST ARM		
SIGNAL POLE W/MAST ARM		
SIGNAL CONTROLLER		
LOAD CENTER		
LUMINAIRE		
RIGID METAL CONDUIT		

H = HOUSE
 G = GARAGE
 M = MERCHANT/STORE
 B = BARN
 S = SHED
 P = PRIVY
 SS = SERVICE STATION
 W = WAREHOUSE

ABBREVIATIONS:

APPROX	APPROXIMATELY	POT	POINT ON TANGENT
BGS	BELOW GROUND SURFACE	PST	PERFORATED STEEL TUBE
C	CENTERLINE	PT	POINT OF TANGENCY
CY	CUBIC YARD	PVI	POINT OF VERTICAL INTERSECTION
E	EAST, EASTING	R	RADIUS
ELLE, ELEV	ELEVATION	R.C.L	RIGHT OF CENTERLINE
EOP	EDGE OF PAVEMENT	RD	ROAD
FT.	FOOT, FEET	ROW	RIGHT-OF-WAY
H	HORIZONTAL	RT	RIGHT
HDPE	HIGH DENSITY POLYETHYLENE	S	SOUTH
HW/D	HEADWATER TO DIAMETER RATIO	SHLDR	SHOULDER
IE	INVERT ELEVATION	SQ. FT.	SQUARE FOOT
IN.	INCH, INCHES	STA	STATION
L	LENGTH OF CURVE	STD	STANDARD
L.C.L	LEFT OF CENTERLINE	T	TANGENT
LT	LEFT	TCE	TEMPORARY CONSTRUCTION EASEMENT
LVC	LENGTH OF VERTICAL CURVE	TS	TUBE STEEL
MAX	MAXIMUM	TYP	TYPICAL
MB	MAILBOX	V	VERTICAL
MIN	MINIMUM	VPC	VERTICAL POINT OF CURVATURE
N	NORTH, NORTHING	VPI	VERTICAL POINT OF INTERSECTION
NO.	NUMBER	VPT	VERTICAL POINT OF TANGENCY
NTS	NOT TO SCALE	W	WEST
O.C.	ON CENTER	WWR	WELDED WIRE REINFORCEMENT
PC	POINT OF CURVATURE	Ø	DIAMETER

PLANS DEVELOPED BY:
 HDR ENGINEERING, INC.
 582 E 36TH AVE STE 500
 ANCHORAGE, AK 99503-4169
 (907) 644-2000
 CERT. OF AUTH. AECC569



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

JNU THANE ROAD
 00039 - DEC 20 SE PR
LEGEND

Addendum #1 : Attachment #1

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	A3	19

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND
A3	PLAN SCHEMATIC AND INDEX
A4	SURVEY CONTROL
B1-B2	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1-D2	SUMMARY TABLES
E1	DETAILS
E2	UNDERDRAIN AND PIPE PLAN AND PROFILE
E3-E4	UNDERDRAIN PLAN AND PROFILE
F1-F2	PLAN AND PROFILE
H1	STRIPING PLAN
T1	TRAFFIC CONTROL PLAN
T2	CONSTRUCTION TRAFFIC PHASING
Q1	EROSION SEDIMENT CONTROL PLAN MAP

THE FOLLOWING STANDARD PLANS APPLY:
 C-05.20, D-01.02, D-04.22, D-09.00, D-30.11, E-09.00,
 M-20.15, M-23.13, T-06.00

GENERAL NOTES:

1. MAKE ALL PAVEMENT CUTS CLEAN, VERTICAL, AND TRUE TO REMOVAL LIMITS SHOWN ON PLANS.
2. DO NOT MEASURE OFF THE PLANS.
3. ROW LINES WERE TAKEN FROM THE JNU - THANE ROAD PAVEMENT REHABILITATION PROJECT #69340. THE LINES WERE INSERTED INTO THE PLANS USING A COMMON COORDINATE SYSTEM. THE LOCATION OF THE ROW LINES HAVE NOT BEEN SURVEYED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF, AND STAY WITHIN THE RIGHT OF WAY.

Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

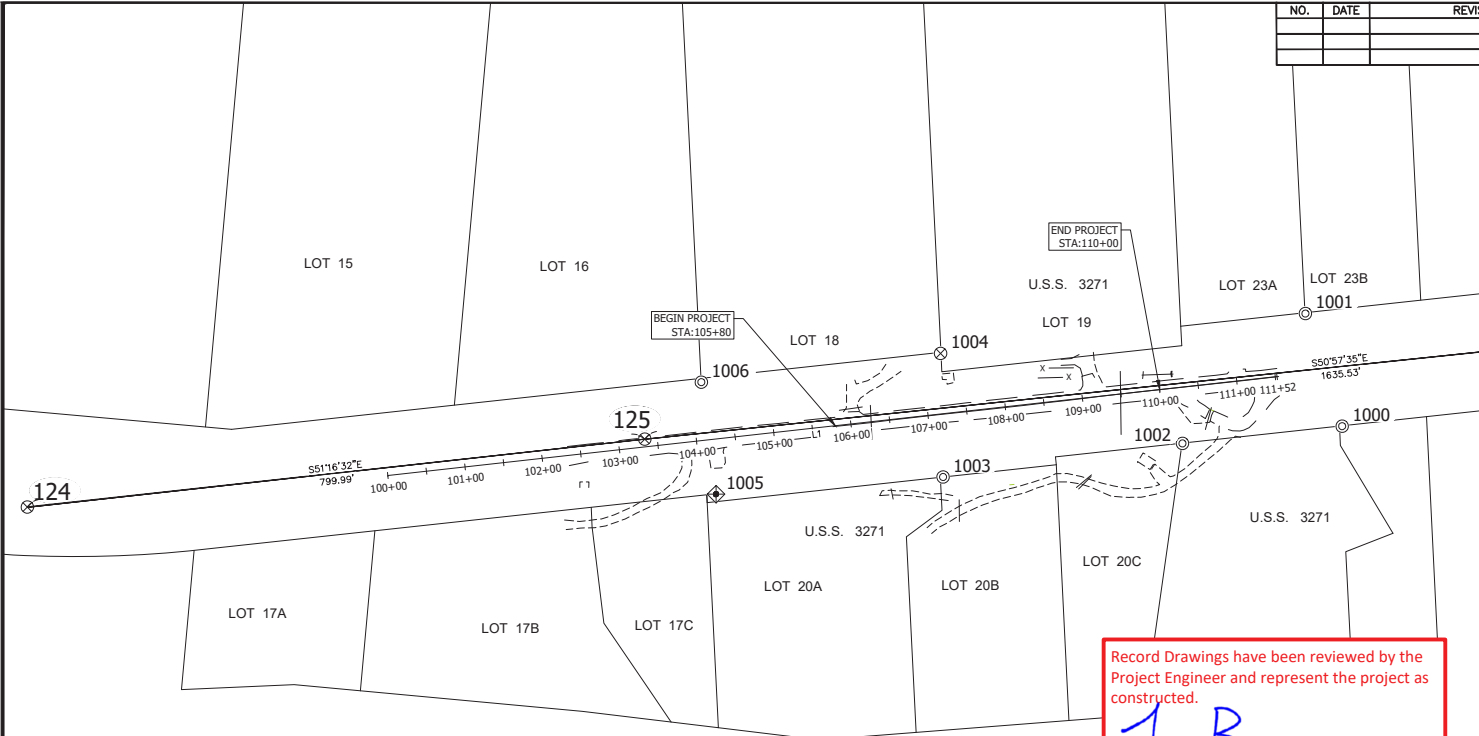
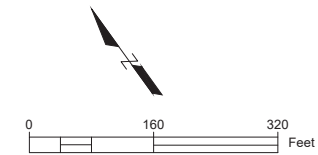
Jim Bergan 1.2.23
 signature Date



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PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES JNU THANE ROAD 00039 - DEC 20 SE PR PLAN SCHEMATIC AND INDEX
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	A4	19



MONUMENT NOTES:

1. IF ANY PAIR OF CONTROL POINTS DISAGREES FROM PUBLISHED VALUE BY MORE THAN 1:10,000 HORIZONTALLY OR VERTICALLY THEN A THIRD NETWORK POINT MUST BE TIED TO ASCERTAIN WHICH POINT IS IN ERROR OR HAS BEEN DISTURBED.
2. WHETHER LISTED OR NOT, ALL PROPERTY MONUMENTS, PROPERTY MARKERS, CORNERS OR ACCESSORIES WHICH WILL BE DISTURBED OR BURIED SHALL BE REFERENCED PRIOR TO BEING DISTURBED, AND RE-ESTABLISHED IN THEIR ORIGINAL HORIZONTAL POSITION AND A RECORD OF MONUMENT FORM IN ACCORDANCE WITH (A.S.34.65.040) AND (A.S.19.10.260) SHALL BE SUBMITTED TO THE CONSTRUCTION ENGINEER FOR REVIEW PRIOR TO RECORDING. COORDINATE VALUES LISTED ARE FOR INFORMATIONAL PURPOSES AND SHOULD BE USED TO RESET MONUMENTS ONLY AS A LAST RESORT.
3. WHEN POSSIBLE ALL ORIGINAL PRIMARY MONUMENTS SHALL BE SAVED AND RESET IN THEIR ORIGINAL HORIZONTAL POSITION AND A RECORD OF MONUMENT FORM IN ACCORDANCE WITH (A.S.34.65.040) AND (A.S.19.10.260) SHALL BE SUBMITTED TO THE CONSTRUCTION ENGINEER FOR REVIEW PRIOR TO RECORDING.
4. RIGHT OF WAY LOCATION IS SHOWN FOR GRAPHICAL ORIENTATION PURPOSES ONLY. REFER TO ALASKA DOT&PF RIGHT OF WAY MAPS FOR RIGHT OF WAY INFORMATION.
5. HORIZONTAL AND VERTICAL CONTROL MUST BE FIELD VERIFIED BY THE CONTRACTOR. DISCREPANCIES WILL BE REPORTED TO DOT&PF CONSTRUCTION PROJECT ENGINEER.

Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

Jim Bergan 1.20.23
Signature Date

THANE ROAD DESIGN ALIGNMENT

SEGMENT	STATION	NORTHING	EASTING	DISTANCE	BEARING	STATION	NORTHING	EASTING
L1	100+00.00	483239.70	217874.35	1152.17	S51° 20' 54"E	111+52.17	482520.07	218774.14

Existing Survey Control Table

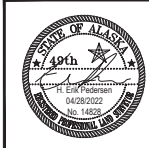
Point #	Northing	Easting	Elevation	Description	Station	Offset
124	483539.26	217517.33	162.55	ALPRIM3.5" _SH_MON	N/A	N/A
125	483038.81	218141.45	183.48	ALPRIM3.5" _SH_MON	103+34.07	9.94L
155	482008.64	219411.77	137.37	ALPRIM3.5" _SH_MON	N/A	N/A

Existing SHOULDER monuments **SHALL BE PRESERVED IN PLACE**. All **shoulder monuments** in this **existing shoulder monument** table shall be **preserved and referenced** prior to disturbance and replaced at their original horizontal position. **A RECORD OF MONUMENT FORM IN ACCORDANCE WITH AS 34.65.040 SHALL BE SUBMITTED TO DOT&PF PROJECT ENGINEER FOR REVIEW PRIOR TO RECORDING FOR EACH MONUMENT.**

Existing Property

Point #	Northing	Easting	Description	Station	Offset
1000	482415.61	218788.34	PLASCAP_UNREADABLE	N/A	N/A
1001	482551.65	218857.47	PLASCAP_UNREADABLE	N/A	N/A
1002	482545.30	218627.19	PLASCAP_QUADRA 5115-S	110+21.65	72.08R
1003	482732.73	218378.60	PLASCAP_DOUG FINLEY LS6277	107+10.44	80.97R
1004	482847.53	218488.88	ALCAP3.25" _WC/LOT19/ROW_1410S 1987	107+24.87	77.56L
1005	482923.77	218156.22	4X4 CONCRETE POST	104+17.45	70.67R
1006	483039.26	218244.83	PLASCAP S7570 _JOHNSON	104+14.52	74.86L

Existing PROPERTY monuments **SHALL BE PRESERVED IN PLACE**. All **property monuments** in this **existing property monument** table shall be **preserved and referenced** prior to disturbance and replaced at their original horizontal position. **A RECORD OF MONUMENT FORM IN ACCORDANCE WITH AS 34.65.040 SHALL BE SUBMITTED TO DOT&PF PROJECT ENGINEER FOR REVIEW PRIOR TO RECORDING FOR EACH MONUMENT.**



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

JNU THANE ROAD
00039 - DEC 20 SE PR
SURVEY CONTROL

FILE: C:\Users\SDRER00322A\Source\DWG\BASEMAP\Thane_Mile_4.4_SCS_012022.dwg DATE: 4/28/2022 8:40 LAYOUT: A4 DESIGNED: CHECKED: DRAFTED:

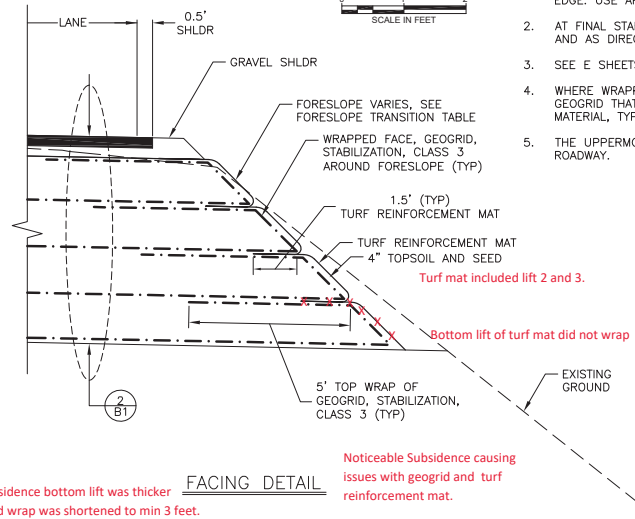
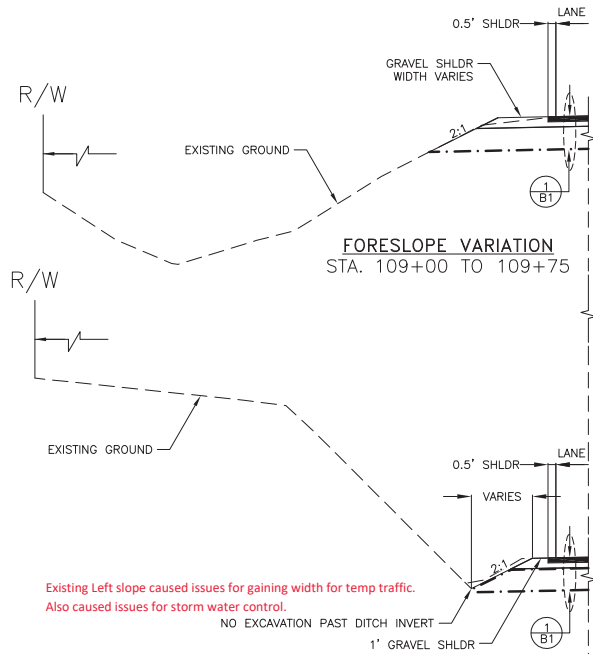
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	B1	19

NOTES:

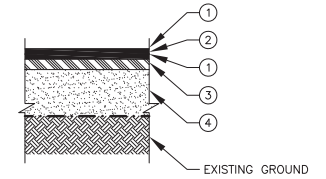
- WITHIN TWO (2) DAYS AFTER PAVING, PLACE AGGREGATE BASE COURSE, GRADING D-1 AGAINST PAVEMENT EDGE. USE APPROVED TRAFFIC CONTROL DEVICES IN THE INTERIM.
- AT FINAL STABILIZATION, PLACE TURF REINFORCEMENT MAT ON ALL DISTURBED SLOPES STEEPER THAN 2:1 AND AS DIRECTED BY THE ENGINEER. TOPSOIL AND SEED ALL DISTURBED SOIL SLOPES.
- SEE E SHEETS FOR DIGOUT TRANSITION DETAIL.
- WHERE WRAPPED FACE GEOGRID IS INDICATED IN TYPICAL SECTIONS, PLACE ONE CONTINUOUS SHEET OF GEOGRID THAT ENCOMPASSES THE BOTTOM, FORESLOPE, AND 5 FEET OF THE TOP LAYER OF SELECTED MATERIAL, TYPE A AS SHOWN IN THE STRUCTURAL SECTION.
- THE UPPERMOST GEOGRID LAYER SHOULD BE EXTENDED ACROSS THE ENTIRE WIDTH OF RECONSTRUCTED ROADWAY.

Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

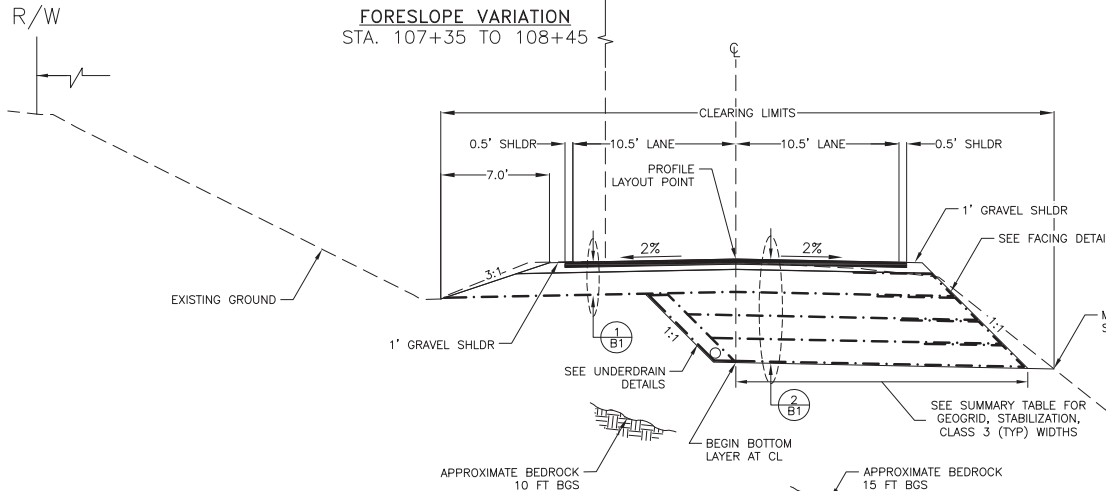
Jim Bergman 1.20.23
Signature Date



Due to subsidence bottom lift was thicker and geogrid wrap was shortened to min 3 feet.

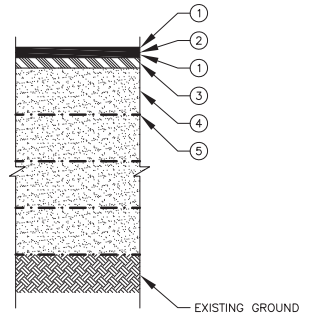


1 B1 PAVEMENT STRUCTURAL SECTION NO. 1
SCALE: 1:2



LEGEND

- 2" HOT MIX ASPHALT, TYPE II; CLASS B
- STE-1 ASPHALT FOR TACK COAT
- 4" AGGREGATE BASE COURSE, GRADING D-1
- 18" SELECTED MATERIAL, TYPE A (TYP)
- GEOGRID, STABILIZATION, CLASS 3 (TYP)



2 B1 PAVEMENT STRUCTURAL SECTION NO. 2
SCALE: 1:2

PLANS DEVELOPED BY:
HDR ENGINEERING, INC.
582 E 36TH AVE STE 500
ANCHORAGE, AK 99503-4169
(907) 644-2000
CERT. OF AUTH. AECC569



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

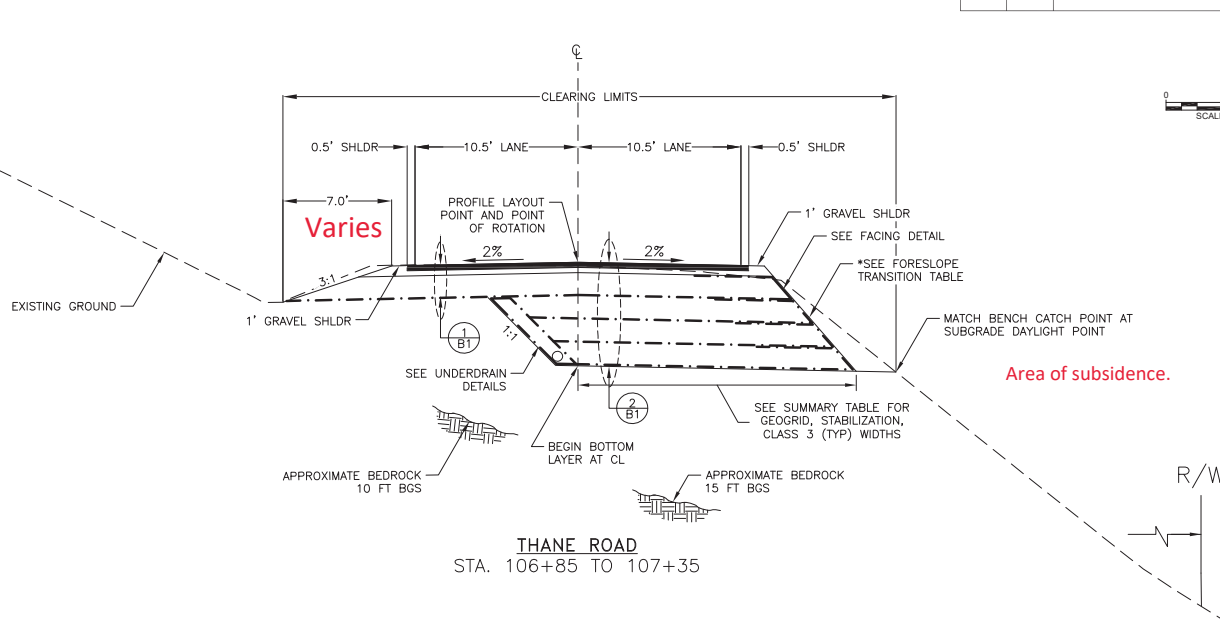
JNU THANE ROAD
00039 - DEC 20 SE PR
TYPICAL SECTIONS

THANE ROAD
STA. 105+60 TO 106+85
STA. 107+35 TO 110+00

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	B2	19

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*FORESLOPE TRANSITION TABLE	
STATION	SLOPE
106+85	1:1
106+90	0.875:1
106+95	0.75:1
107+00	0.625:1
107+05	0.5:1
107+15	0.5:1
107+20	0.625:1
107+25	0.75:1
107+30	0.875:1
107+35	1:1

In general all foreslopes seem to end up being at 1:1. Contractor means and methods.

Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

Jim Bergen 1.20.23
 Signature Date

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES JNU THANE ROAD 00039 - DEC 20 SE PR TYPICAL SECTIONS
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ESTIMATE OF QUANTITIES

ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
201.0003.0000	CLEARING AND GRUBBING	ACRE	0.2 0.158
201.2002.0000	INVASIVE PLANT SURVEY	LUMP SUM	ALL REQUIRED
201.2003.0000	INVASIVE PLANT SPECIES CONTROL, REMOVAL, AND DISPOSAL	CONTINGENT SUM	ALL REQUIRED NOT REQUIRED
202.0002.0000	REMOVAL OF PAVEMENT	SQUARE YARD	1,250 1,184
202.0004.0000	REMOVAL OF CULVERT PIPE	LINEAR FOOT	44 NOT REQUIRED - CO#1
202.0010.0000	SINGLE MAIL BOX INSTALLATION	EACH	1
202.0011.0000	MULTIPLE MAIL BOX INSTALLATION	EACH	1
202.0020.0000	REMOVAL OF SINGLE MAIL BOX	EACH	1 2
202.0021.0000	REMOVAL OF MULTIPLE MAIL BOX	EACH	1
203.0003.0000	UNCLASSIFIED EXCAVATION	CUBIC YARD	2,200 2,038
203.0006.000A	BORROW, TYPE A	TON	3,150 3,862.82
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	345 303.12
401.0001.002B	HMA, TYPE II; CLASS B	TON	253 311.77
401.0004.5828	ASPHALT BINDER, GRADE PG 58-28E	TON	14 16.212
603.0021.0036	CORRUGATED POLYETHYLENE PIPE 36 INCH	LINEAR FOOT	44 NOT REQUIRED - CO#1
603.2032.0008	CORRUGATED HDPE PIPE 8 INCH	LINEAR FOOT	60
605.0005.0000	POROUS BACKFILL MATERIAL	CUBIC YARD	63 62.8
605.2008.0008	PERFORATED CORRUGATED HDPE PIPE 8 INCH	LINEAR FOOT	316 356
611.0001.0002	RIPRAP, CLASS II	CUBIC YARD	7 11.41
618.0002.0000	SEEDING	POUND	14
619.2002.0000	TURF REINFORCEMENT MAT	SQUARE YARD	1,050 772.50
620.0001.0000	TOPSOIL	SQUARE YARD	1,050 260
631.0001.0002	GEOTEXTILE, DRAINAGE, CLASS 2	SQUARE YARD	540 591.67
634.0001.0003	GEOGRID, STABILIZATION, CLASS 3	SQUARE YARD	5,050 4,882.44
639.2000.0000	APPROACH	EACH	2
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED \$5,000.00
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED \$51,500.00
642.0003.0000	THREE PERSON SURVEY PARTY	HOUR	16
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED \$75,000.00
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED \$6,000.00
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
643.0025.0000	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED \$3,225.50
643.0032.0000	FLAGGING	CONTINGENT SUM	ALL REQUIRED \$3,008.00
644.2001.0000	ENGINEERING COMMUNICATIONS, MOBILE HOTSPOTS	LUMP SUM	ALL REQUIRED \$3,000.00
658.0001.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL WITHOUT CGP COVERAGE	LUMP SUM	ALL REQUIRED \$19,000.00
658.0002.0000	ESCP CHANGES BY DIRECTIVE	CONTINGENT SUM	ALL REQUIRED
670.0001.0000	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED \$11,000.00

△

NO.	DATE	REVISION	STATE	PROJECT #	ATTACHMENT #	SHEET NO.	TOTAL SHEETS
2	6/2/22	ITEMS DELETED	ALASKA	SDRER00409	2022	C1	19

BASIS OF ESTIMATE

ITEM NO.	PAY ITEM	ESTIMATING FACTOR
203.0006.000A	BORROW, TYPE A	144 LB/FT ³
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	144 LB/FT ³
401.0001.002B	HMA, TYPE II; CLASS B	150 LB/FT ³
401.0004.5828	ASPHALT BINDER, GRADE PG 58-28E	5.3% OF 401.0001.002B
618.0002.0000	SEEDING	SEE SPECIFICATIONS

Record Drawings have been reviewed by the
 Project Engineer and represent the project as
 constructed.

1.20.23
 Signature Date

PLANS DEVELOPED BY:
 HDR ENGINEERING, INC.
 582 E 36TH AVE STE 500
 ANCHORAGE, AK 99503-4169
 (907) 644-2000
 CERT. OF AUTH. AECC569



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

JNU THANE ROAD
 00039 - DEC 20 SE PR
 ESTIMATE OF QUANTITIES

See Sheet C1 for changes in Estimate of Quantity

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	D1	19

[201.0003.0000] CLEARING AND GRUBBING				
SHEET	STATION		AREA (ACRES)	REMARKS
	FROM	TO		
F1	105+60	110+00	0.2	
SUBTOTAL:			0.2	
ROUNDED PAY ITEM QUANTITY:			0.2	

[611.0001.0002] - RIPRAP, CLASS II							
SHEET	STATION	OFFSET	LENGTH (FT)	X-SECTION AREA (FT ²)	VOLUME (FT ³)	VOLUME (CY)	REMARKS
F1	106+25	RT	10	18	180	6.67	
SUBTOTAL:						6.67	
ROUNDED PAY ITEM QUANTITY:						7	

[202.0002.0000] REMOVAL OF PAVEMENT				
SHEET	STATION		PLAN AREA (YD ²)	REMARKS
	FROM	TO		
F1	105+60	110+00	1,215	
SUBTOTAL:			1,215	
ROUNDED PAY ITEM QUANTITY:			1,250	

[618.0002.0000] SEEDING						
SHEET	STATION		RAW 2D PLAN AREA (FT ²)	WEIGHTED 3D AREA (FT ²)	WEIGHT (LB)	REMARKS
	FROM	TO				
F1	105+60	110+00	7,507	9,009	13.5	
SUBTOTAL:					13.5	
ROUNDED PAY ITEM QUANTITY:					14	

[202.0004.0000] REMOVAL OF CULVERT PIPE				
SHEET	STATION	OFFSET	LENGTH (FT)	REMARKS
F1	106+26	CL	44	
SUBTOTAL:			44	
ROUNDED PAY ITEM QUANTITY:			44	

[619.2002.0000] TURF REINFORCEMENT MAT						
SHEET	STATION		RAW 2D PLAN AREA (FT ²)	WEIGHTED 3D AREA (FT ²)	AREA (YD ²)	REMARKS
	FROM	TO				
F1	105+60	110+00	7,507	9,009	1,001.0	
SUBTOTAL:					1,001.0	
ROUNDED PAY ITEM QUANTITY:					1,050	


[202.0010.0000, 202.0011.0000] SINGLE MAIL BOX INSTALLATION, MULTIPLE MAIL BOX INSTALLATION					
SHEET	STATION	OFFSET	202.0010.0000 SINGLE (EACH)	202.0011.0000 MULTIPLE (EACH)	REMARKS
F1	108+97	LT	X		
	110+07	RT		X	
PAY ITEM QUANTITY:			1	1	

[620.0001.0000] TOPSOIL						
SHEET	STATION		RAW 2D PLAN AREA (FT ²)	WEIGHTED 3D AREA (FT ²)	AREA (YD ²)	REMARKS
	FROM	TO				
F1	105+60	110+00	7,507	9,009	1,001.0	
SUBTOTAL:					1,001.0	
ROUNDED PAY ITEM QUANTITY:					1,050	

[202.0020.0000, 202.0021.0000] REMOVAL OF SINGLE MAIL BOX, REMOVAL OF MULTIPLE MAIL BOX					
SHEET	STATION	OFFSET	202.0020.0000 SINGLE (EACH)	202.0021.0000 MULTIPLE (EACH)	REMARKS
F1	108+97	LT	X		
	110+07	RT		X	
PAY ITEM QUANTITY:			1	1	

Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

Jim Burgan 1.20.23
Signature Date

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES JNU THANE ROAD 00039 - DEC 20 SE PR SUMMARY TABLES
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FILE: c:\pwworking\hwy101\2233881\01_02_SUMMARY.TB.dwg DATE: 12/19/2022 11:20 LAYOUT: D1 DESIGNED: CHECKED: DRAFTED:

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	D2	19

[631.0001.0002] GEOTEXTILE, DRAINAGE, CLASS 2							
SHEET	STATION		LENGTH (FT)	WIDTH (FT)	AREA (FT ²)	AREA (YD ²)	REMARKS
	FROM	TO					
F1	106+40	109+55	315	15.23	4,797.0	533.0	GEOTEXTILE IS WRAPPED AROUND POROUS BACKFILL MATERIAL. WIDTH INCLUDES ENTIRE PERIMETER.
SUBTOTAL:					533		
ROUNDED PAY ITEM QUANTITY:					540		

RECESSED PAVEMENT MARKER				
SHEET	STATION	OFFSET	EACH	REMARKS
H1	106+30	CL	1	RECESSED PAVEMENT MARKER LOCATIONS ARE APPROXIMATE. CONFIRM PLACEMENT IN THE FIELD BASED ON EXISTING MARKERS.
	107+10	CL	1	
	107+90	CL	1	
	108+70	CL	1	
	109+50	CL	1	
QUANTITY:			5	

[634.0001.0003] GEOGRID, STABILIZATION, CLASS 3							
SHEET	STATION		LENGTH (FT)	BOTTOM WIDTH (FT)	TOTAL WRAPPED WIDTH (FT)	AREA (YD ²)	REMARKS
	FROM	TO					
F1	105+70	106+85	116	33.1	40.4	519.2	TOP LAYER; FORESLOPE 1:1
	106+85	107+35	50	32.8	40.0	224.2	TOP LAYER; FORESLOPE 0.5:1
	107+35	108+45	111	33.1	48.5	598.4	TOP LAYER; FORESLOPE 1:1 AND INLAND FORESLOPE VARIATION
	108+45	109+88	144	33.1	40.4	646.9	TOP LAYER; FORESLOPE 1:1
	105+94	106+85	92	18.8	26.1	267.1	SECOND LAYER; MATERIAL WRAPPED AROUND FACE OF FORESLOPE AND MEASURED WIDTH INCLUDES THAT PERIMETER. FORESLOPE 1:1
	106+85	107+35	50	18.3	25.4	142.7	SECOND LAYER; MATERIAL WRAPPED AROUND FACE OF FORESLOPE AND MEASURED WIDTH INCLUDES THAT PERIMETER. FORESLOPE 0.5:1
	107+35	109+77	244	18.8	26.1	706.8	SECOND LAYER; MATERIAL WRAPPED AROUND FACE OF FORESLOPE AND MEASURED WIDTH INCLUDES THAT PERIMETER. FORESLOPE 1:1
	106+17	106+85	69	18.8	26.1	199.2	THIRD LAYER; MATERIAL WRAPPED AROUND FACE OF FORESLOPE AND MEASURED WIDTH INCLUDES THAT PERIMETER. FORESLOPE 1:1
	106+85	107+35	50	18.1	25.2	141.6	THIRD LAYER; MATERIAL WRAPPED AROUND FACE OF FORESLOPE AND MEASURED WIDTH INCLUDES THAT PERIMETER. FORESLOPE 0.5:1
	107+35	109+66	233	18.8	26.1	674.4	THIRD LAYER; MATERIAL WRAPPED AROUND FACE OF FORESLOPE AND MEASURED WIDTH INCLUDES THAT PERIMETER. FORESLOPE 1:1
	106+40	106+85	45	18.8	26.1	130.9	FOURTH LAYER; MATERIAL WRAPPED AROUND FACE OF FORESLOPE AND MEASURED WIDTH INCLUDES THAT PERIMETER. FORESLOPE 1:1
	106+85	107+35	51	17.9	25.0	140.5	FOURTH LAYER; MATERIAL WRAPPED AROUND FACE OF FORESLOPE AND MEASURED WIDTH INCLUDES THAT PERIMETER. FORESLOPE 0.5:1
	107+35	109+55	222	18.8	26.1	642.7	FOURTH LAYER; MATERIAL WRAPPED AROUND FACE OF FORESLOPE AND MEASURED WIDTH INCLUDES THAT PERIMETER. FORESLOPE 1:1
	SUBTOTAL:					5034.6	
ROUNDED PAY ITEM QUANTITY:					5050		

[639.2000.0000] APPROACH						
SHEET	STATION	OFFSET	LENGTH (FT)	WIDTH (FT)	SKEW (DEG)	REMARKS
F2	106+04	LT	30	14	90	
	109+17	LT	35	14	82	
PAY ITEM QUANTITY (EACH):					2	

Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

Jim Benjamin 1.20.23
signature Date

PLANS DEVELOPED BY:
HDR ENGINEERING, INC.
582 E 36TH AVE STE 500
ANCHORAGE, AK 99503-4169
(907) 644-2000
CERT. OF AUTH. AECC569



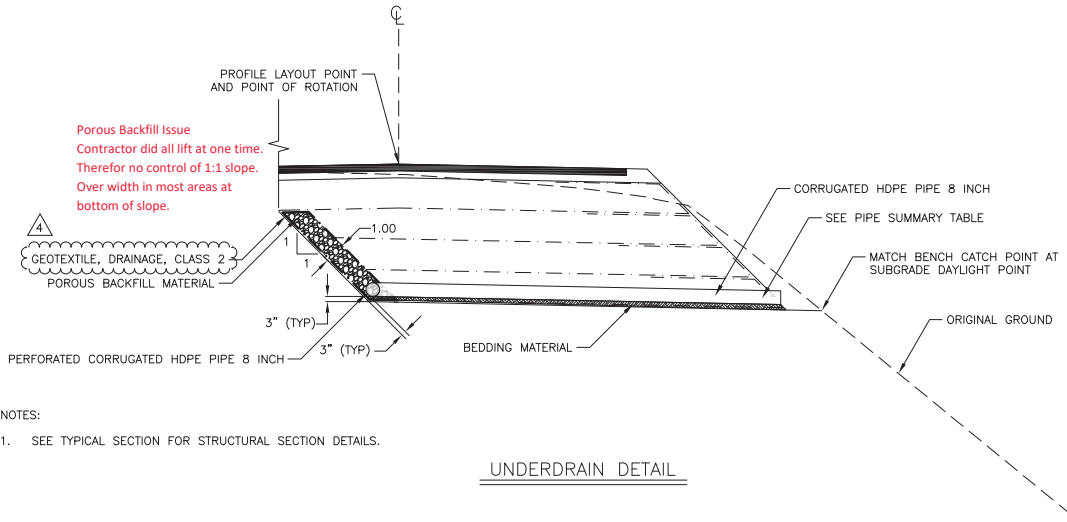
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

JNU THANE ROAD
00039 - DEC 20 SE PR
SUMMARY TABLES

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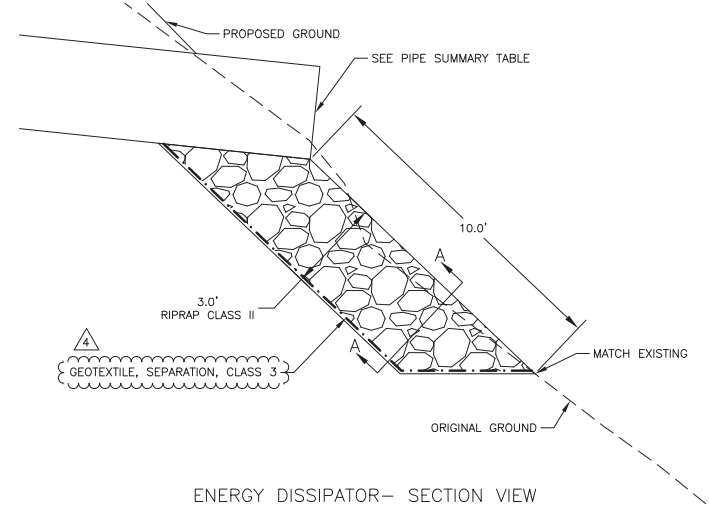
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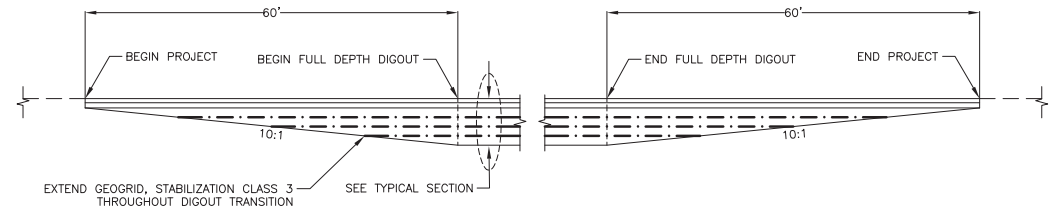


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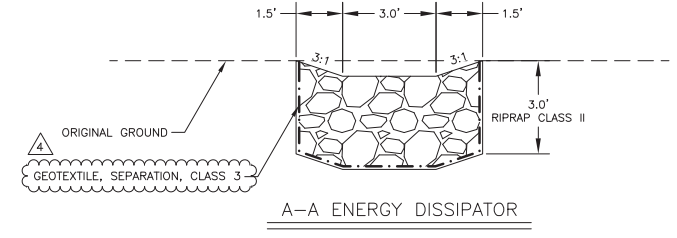
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 1. SEE TYPICAL SECTION FOR STRUCTURAL SECTION DETAILS.



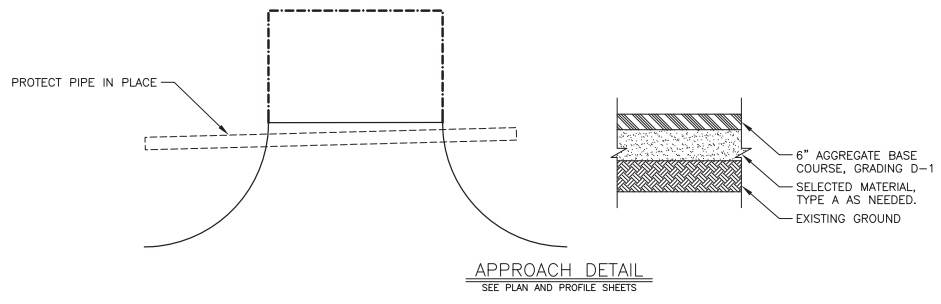
ENERGY DISSIPATOR- SECTION VIEW



DIGOUT TRANSITION DETAIL



A-A ENERGY DISSIPATOR

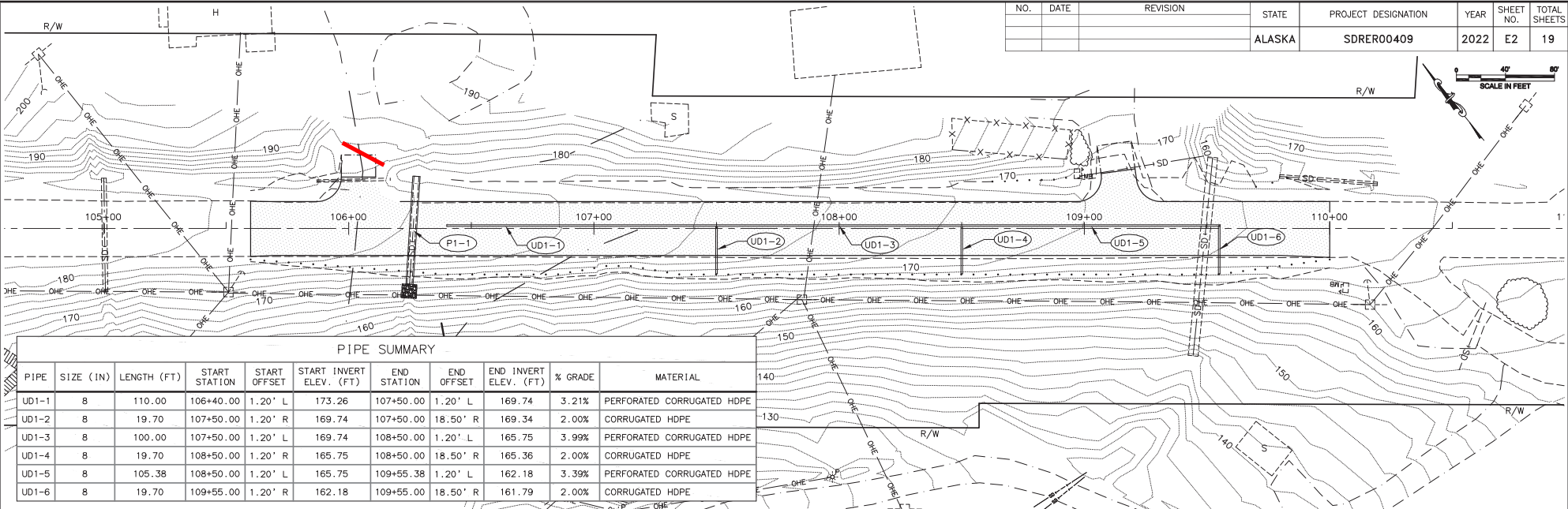


APPROACH DETAIL
 SEE PLAN AND PROFILE SHEETS

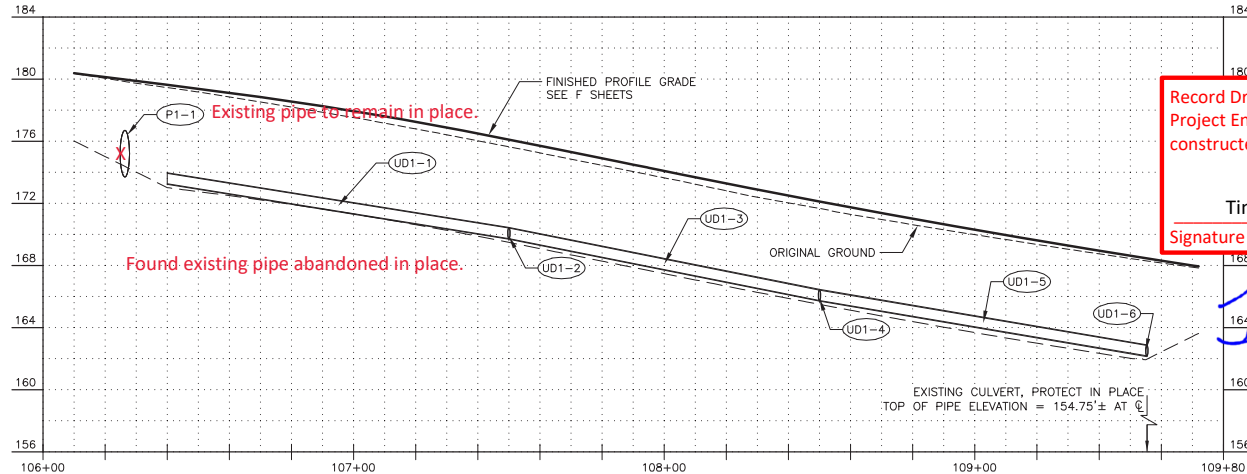
Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.
Jim Bergan 1.20.23
 signature Date

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES JNU THANE ROAD 00039 - DEC 20 SE PR DETAILS
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	E2	19



PIPE	SIZE (IN)	LENGTH (FT)	START STATION	START OFFSET	START INVERT ELEV. (FT)	END STATION	END OFFSET	END INVERT ELEV. (FT)	% GRADE	MATERIAL
UD1-1	8	110.00	106+40.00	1.20' L	173.26	107+50.00	1.20' L	169.74	3.21%	PERFORATED CORRUGATED HDPE
UD1-2	8	19.70	107+50.00	1.20' R	169.74	107+50.00	18.50' R	169.34	2.00%	CORRUGATED HDPE
UD1-3	8	100.00	107+50.00	1.20' L	169.74	108+50.00	1.20' L	165.75	3.99%	PERFORATED CORRUGATED HDPE
UD1-4	8	19.70	108+50.00	1.20' R	165.75	108+50.00	18.50' R	165.36	2.00%	CORRUGATED HDPE
UD1-5	8	105.38	108+50.00	1.20' L	165.75	109+55.38	1.20' L	162.18	3.39%	PERFORATED CORRUGATED HDPE
UD1-6	8	19.70	109+55.00	1.20' R	162.18	109+55.00	18.50' R	161.79	2.00%	CORRUGATED HDPE



Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

Tina Bergam 1.20.23
Signature Date

Jim Bergam

PIPE	SIZE (IN)	LENGTH (FT)	START STATION	START OFFSET	START INVERT ELEV. (FT)	END STATION	END OFFSET	END INVERT ELEV. (FT)	% GRADE	MATERIAL
P1-1	36	44.11	106+27.64	21.26' R	175.82	106+24.80	22.76' R	171.17	10.54%	CORRUGATED POLYETHYLENE

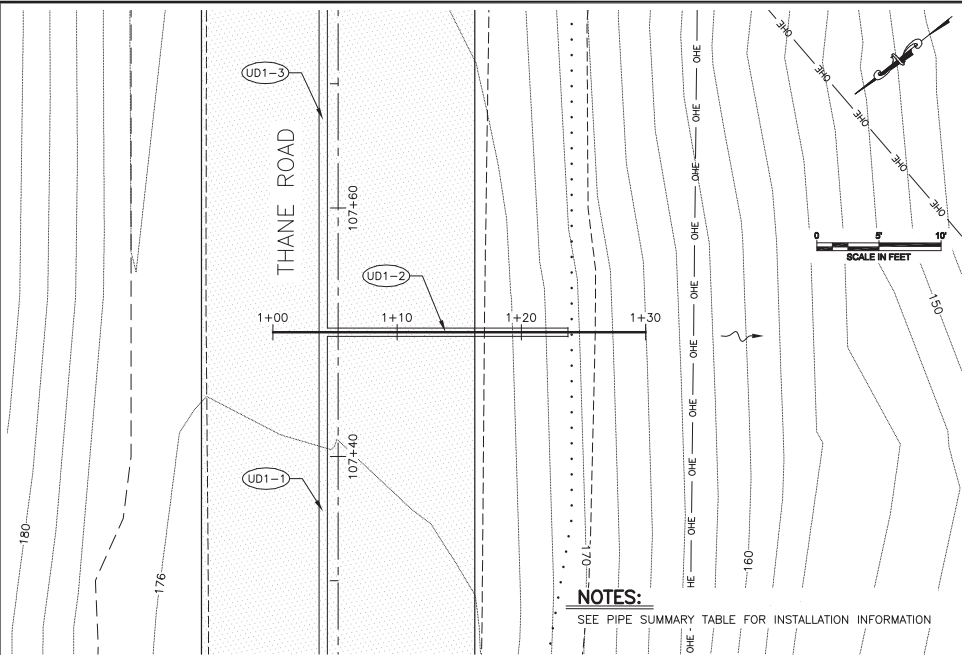
PLANS DEVELOPED BY:
HDR ENGINEERING, INC.
582 E 36TH AVE STE 500
ANCHORAGE, AK 99503-4169
(907) 644-2000
CERT. OF AUTH. AECC569

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

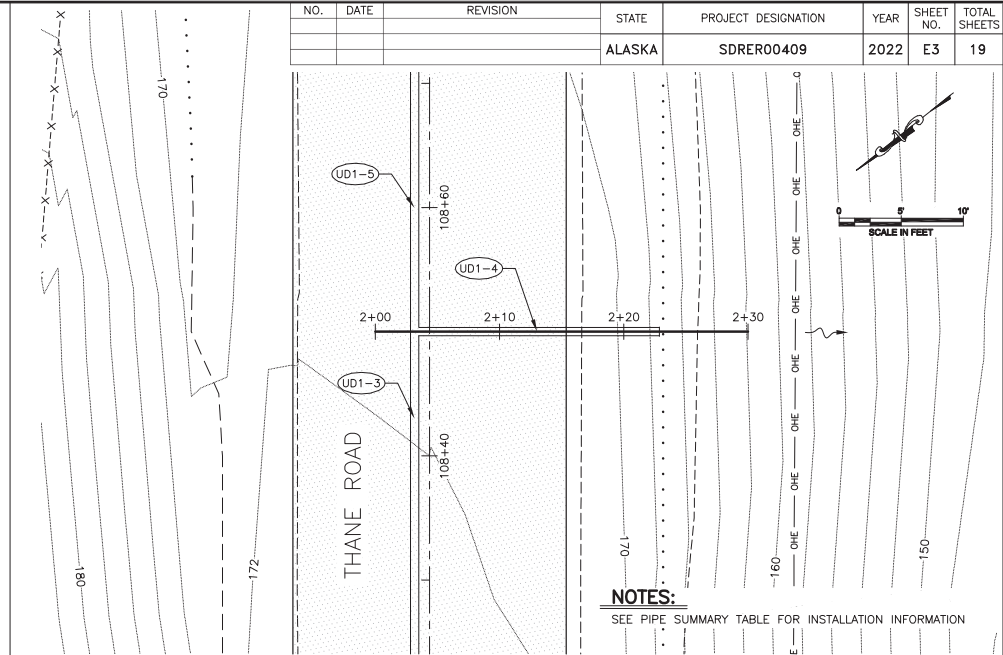
JNU THANE ROAD
00039 - DEC 20 SE PR
UNDERDRAIN AND PIPE
PLAN AND PROFILE

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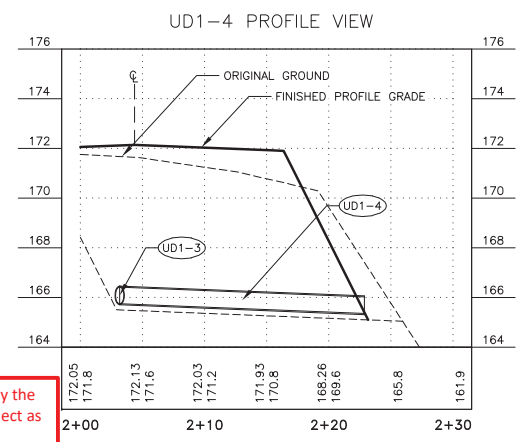
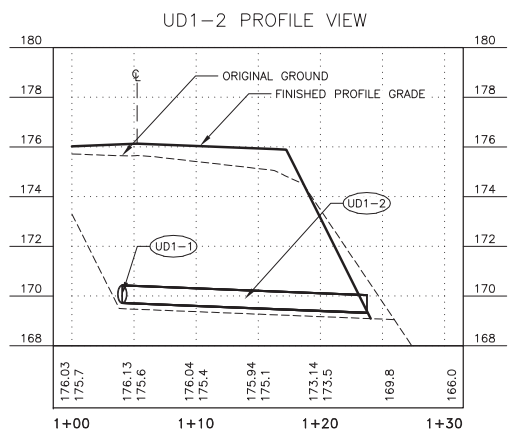
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			ALASKA	SDRER00409	2022	E3	19



NOTES:
SEE PIPE SUMMARY TABLE FOR INSTALLATION INFORMATION



NOTES:
SEE PIPE SUMMARY TABLE FOR INSTALLATION INFORMATION



1.20.23

Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

Jim Bergan
Signature Date

PLANS DEVELOPED BY:
HDR ENGINEERING, INC.
582 E 36TH AVE STE 500
ANCHORAGE, AK 99503-4169
(907) 644-2000
CERT. OF AUTH. AECC569

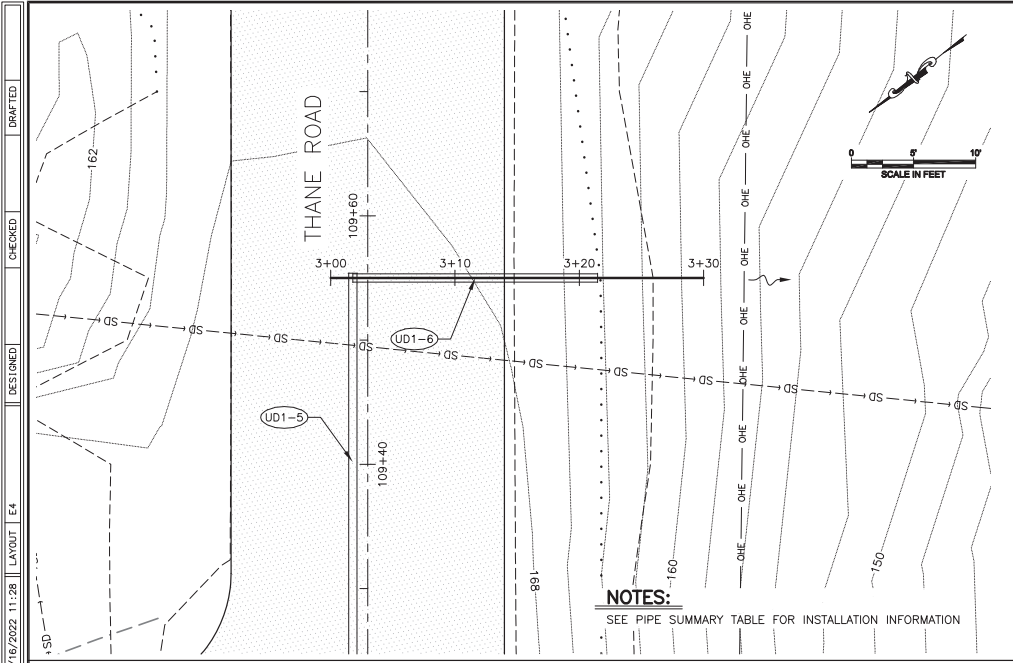


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

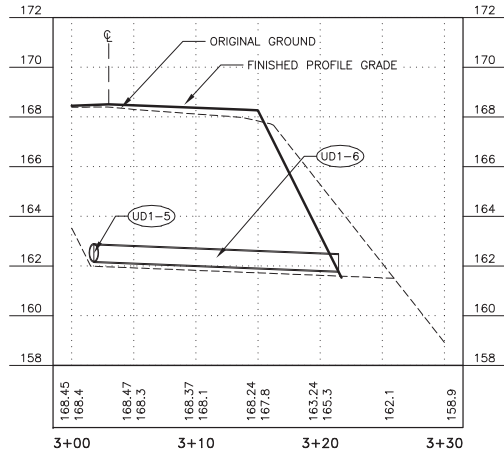
JNU THANE ROAD
00039 - DEC 20 SE PR
UNDERDRAIN PLAN AND PROFILE

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	E4	19



UD1-6 PROFILE VIEW



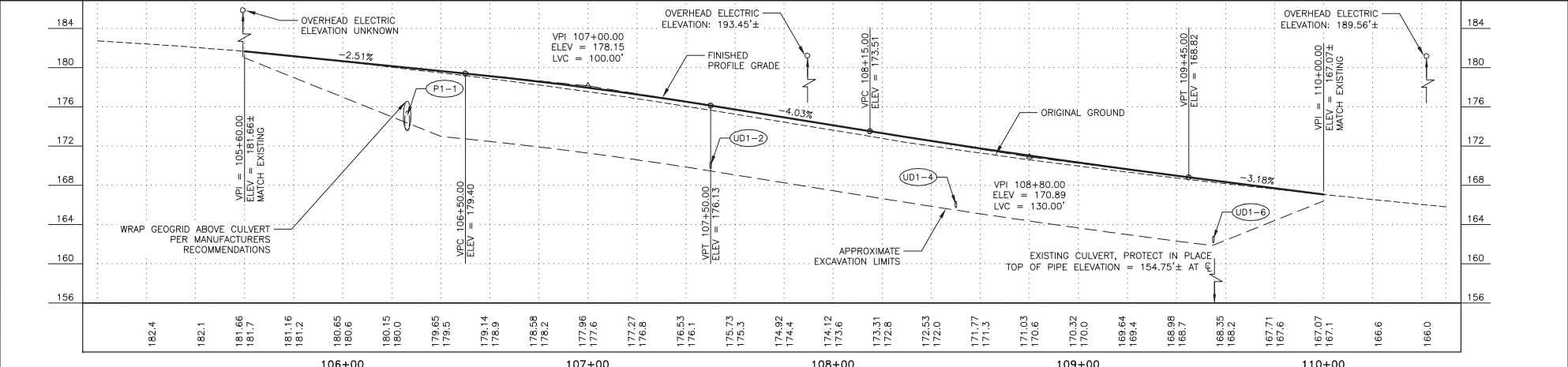
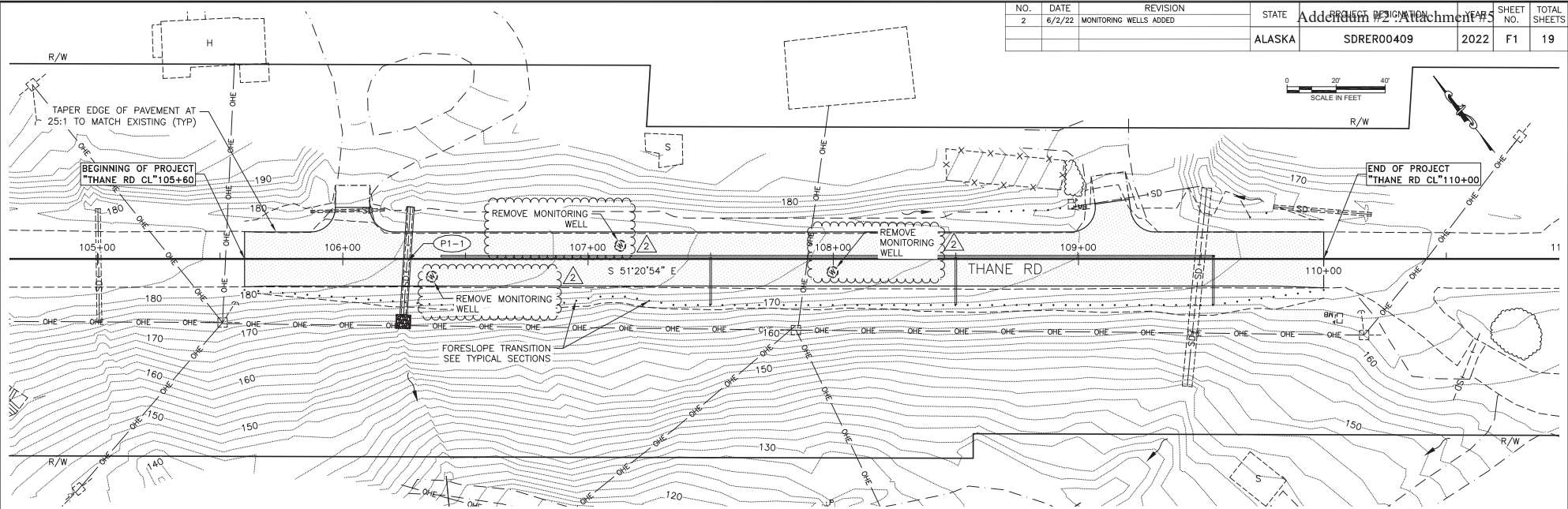
Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

Jim Bergan 1.20.23
 Signature Date

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PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES JNU THANE ROAD 00039 - DEC 20 SE PR UNDERDRAIN PLAN AND PROFILE
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NO.	DATE	REVISION	STATE	PROJECT NO.	ATTACHMENT #	SHEET NO.	TOTAL SHEETS
2	6/2/22	MONITORING WELLS ADDED	ALASKA	SDRER00409		2022	F1 19



Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

Signature _____ Date _____

PLANS DEVELOPED BY:
HDR ENGINEERING, INC.
582 E 36TH AVE STE 500
ANCHORAGE, AK 99503-4169
(907) 644-2000
CERT. OF AUTH. AECC569

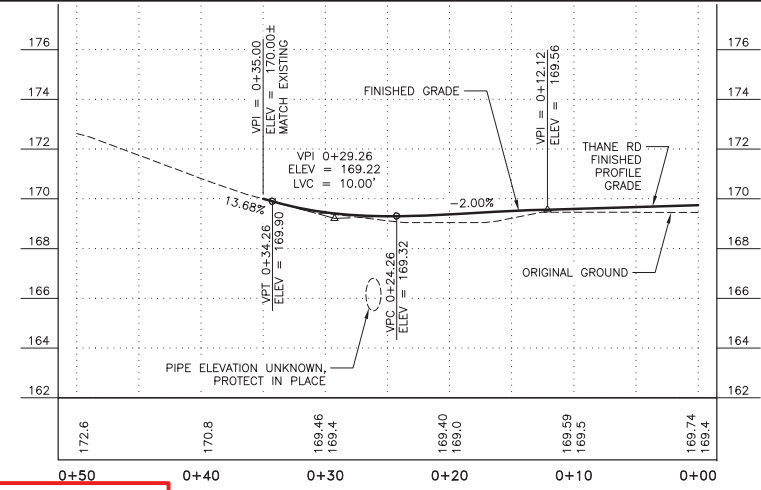
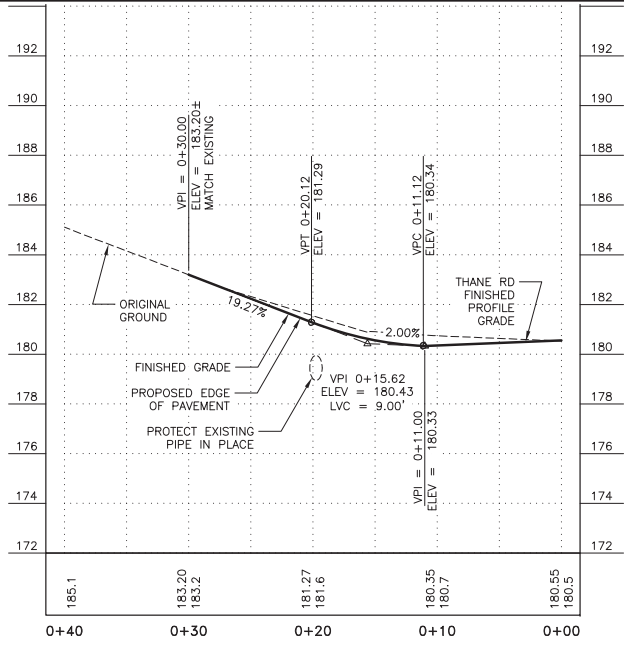
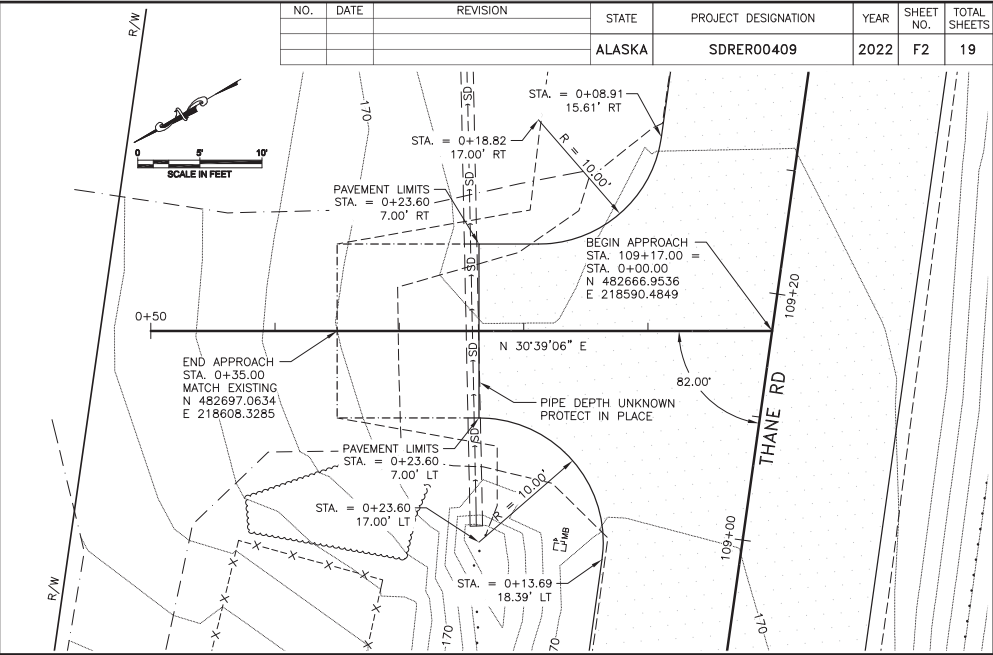
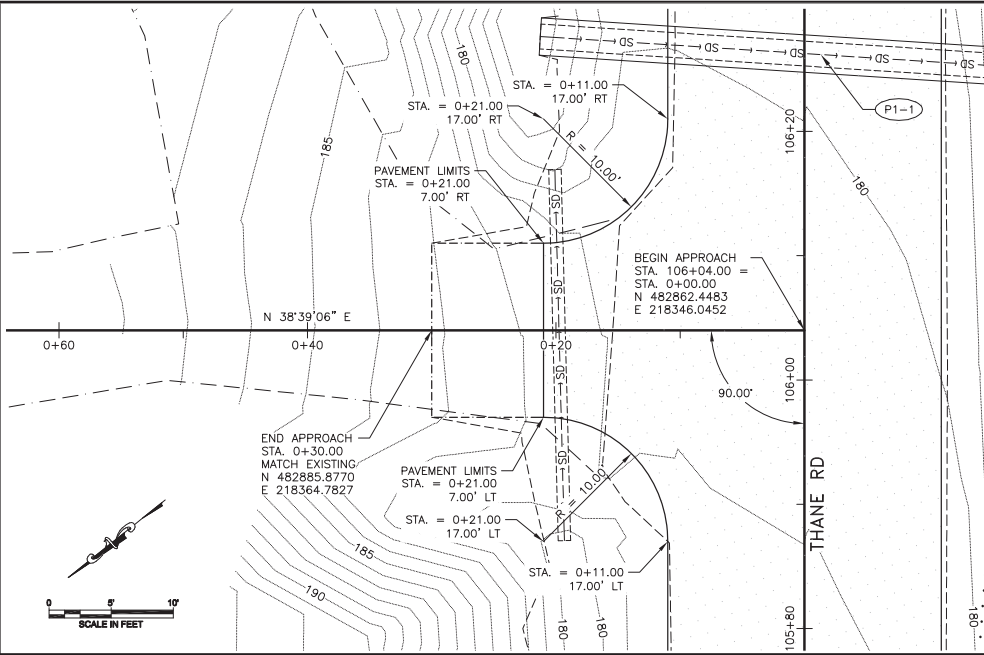


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

JNU THANE ROAD
00039 - DEC 20 SE PR
PLAN AND PROFILE
STA 105+60 TO 110+00

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	F2	19



Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

Signature _____ Date _____

PLANS DEVELOPED BY:
HDR ENGINEERING, INC.
582 E 36TH AVE, STE 500
ANCHORAGE, AK 99503-4169
(907) 644-2000
CERT. OF AUTH. AECC569

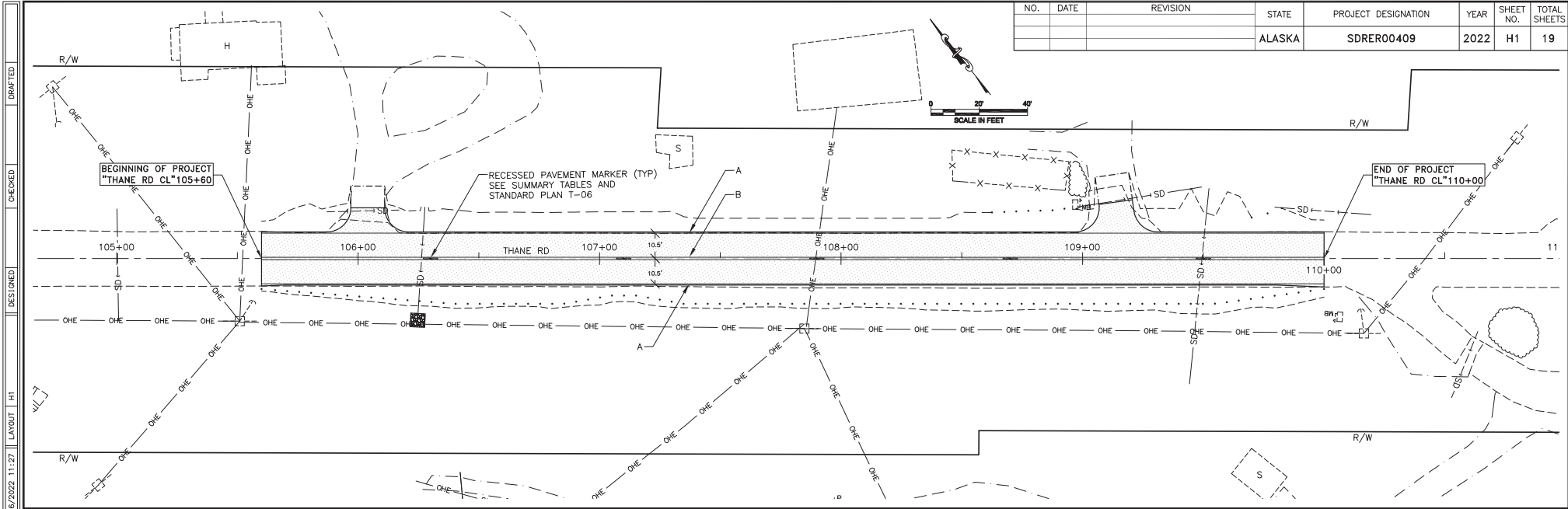


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**JNU THANE ROAD
00039 - DEC 20 SE PR
PLAN AND PROFILE
APPROACHES**

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			ALASKA	SDRER00409	2022	H1	19




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 CHECKED:
 DRAFTED:

SYMBOL	DESCRIPTION	WIDTH	PATTERN
A	SOLID WHITE	4"	—————
B	SOLID DOUBLE YELLOW	4"	=====

Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

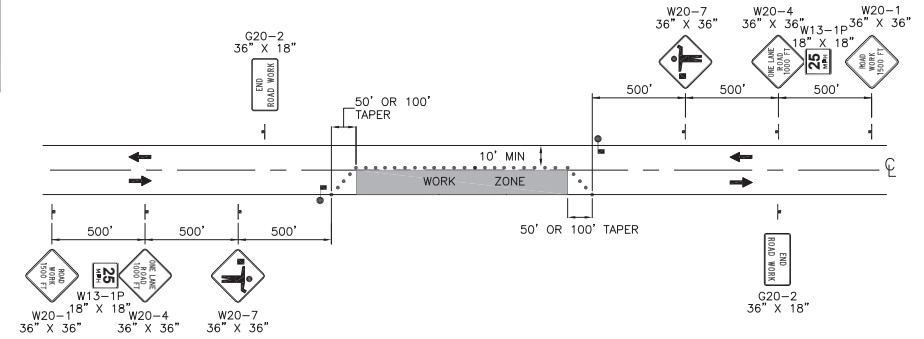
 Signature _____ Date _____

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES JNU THANE ROAD 00039 – DEC 20 SE PR STRIPING PLAN
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	T1	19

TRAFFIC CONTROL LEGEND

	FLAGGER
	CONSTRUCTION SIGN
	DRUM
	CONE
	WARNING LIGHT
	TRAFFIC FOLLOW

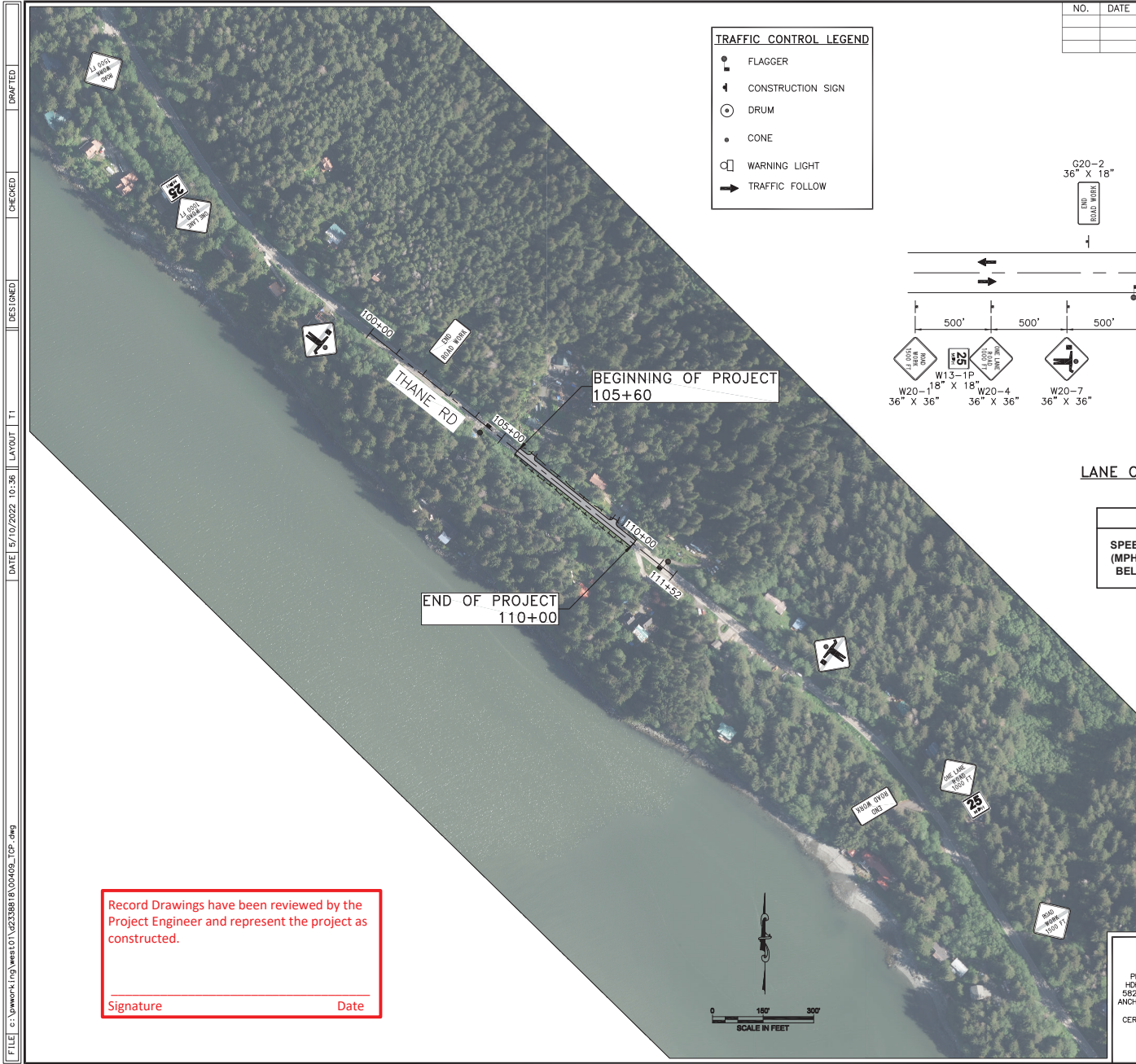


LANE CLOSURE ON TWO-LANE ROAD WITH LOW TRAFFIC VOLUMES

SPEED 25 (MPH) OR BELOW	TCP SETUP TABLE			
	MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FT.			BUFFER SPACE (FT)
	10'	11'	12'	
6 DEVICES EVENLY SPACED			50	155

TRAFFIC CONTROL NOTES:

- SUBMIT ALL TCPs TO THE ENGINEER FOR APPROVAL.
- TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0" WITH A MAXIMUM SPEED LIMIT OF 25 MPH.
- PLACE CONSTRUCTION SIGNS SUCH THAT THEY DO NOT OBSCURE EXISTING TRAFFIC SIGNS.
- SUGGESTED CONSTRUCTION PHASING:**
 - REMOVE PAVEMENT FROM BEGINNING OF PROJECT TO END OF PROJECT. USE SINGLE-LANE CLOSURES AND SWAP TRAFFIC BACK AND FORTH DURING PAVEMENT REMOVAL.
 - EXCAVATE THE ENTIRE ROAD EMBANKMENT WIDTH TO THE DATUM OF PAVEMENT STRUCTURAL SECTION NO. 1. USE SINGLE LANE CLOSURES AND SWAP TRAFFIC BACK AND FORTH AS NEEDED TO REACH DESIRED DEPTH.
 - EXCAVATE THE SOUTHEAST BOUND LANE TO THE DATUM OF PAVEMENT STRUCTURAL SECTION NO. 2 AS SHOWN IN THE TYPICAL SECTION. MAINTAIN A SINGLE LANE OF TRAFFIC ON THE NORTHWEST BOUND LANE. UTILIZE MUTCD TYPICAL APPLICATION 10 FOR TRAFFIC CONTROL SETUP.
 - CONSTRUCT EMBANKMENT ON THE SOUTHEAST BOUND LANE AS SHOWN IN TYPICAL SECTION UNTIL THE GRADE IS BROUGHT EVEN WITH THE PAVEMENT STRUCTURAL SECTION NO. 1 DATUM GRADE. USE SINGLE LANE CLOSURES AND SWAP TRAFFIC BACK AND FORTH AS NEEDED TO CONSTRUCT THE REMAINDER OF EMBANKMENT AS SHOWN IN THE TYPICAL SECTIONS.
 - PAVE THE ROAD AS SHOWN IN THE TYPICAL SECTIONS. USE SINGLE LANE CLOSURES AND SWAP TRAFFIC DURING PAVING OPERATIONS.



Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

Signature

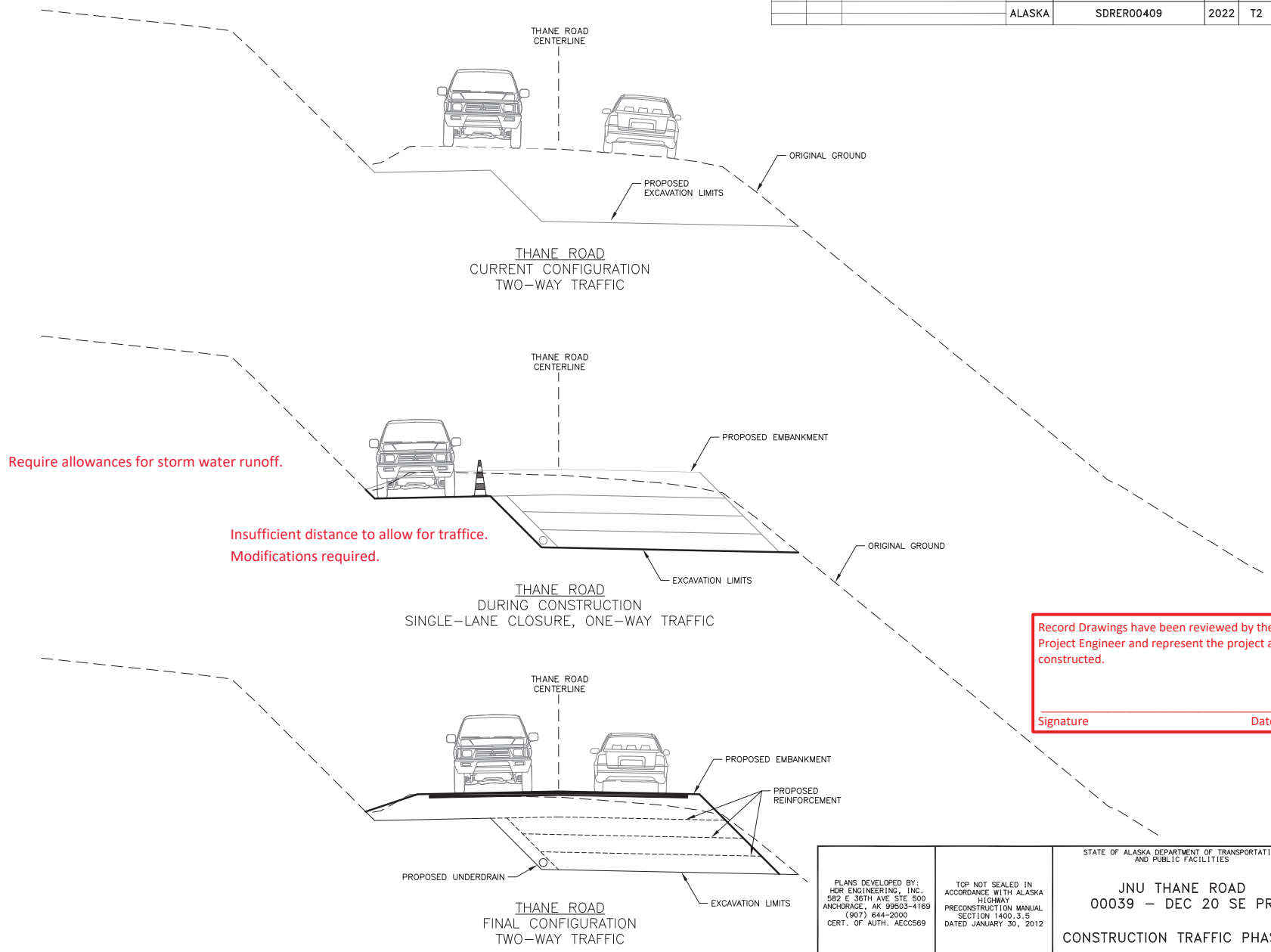
Date

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569	TCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES JNU THANE ROAD 00039 - DEC 20 SE PR TRAFFIC CONTROL PLAN
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	T2	19

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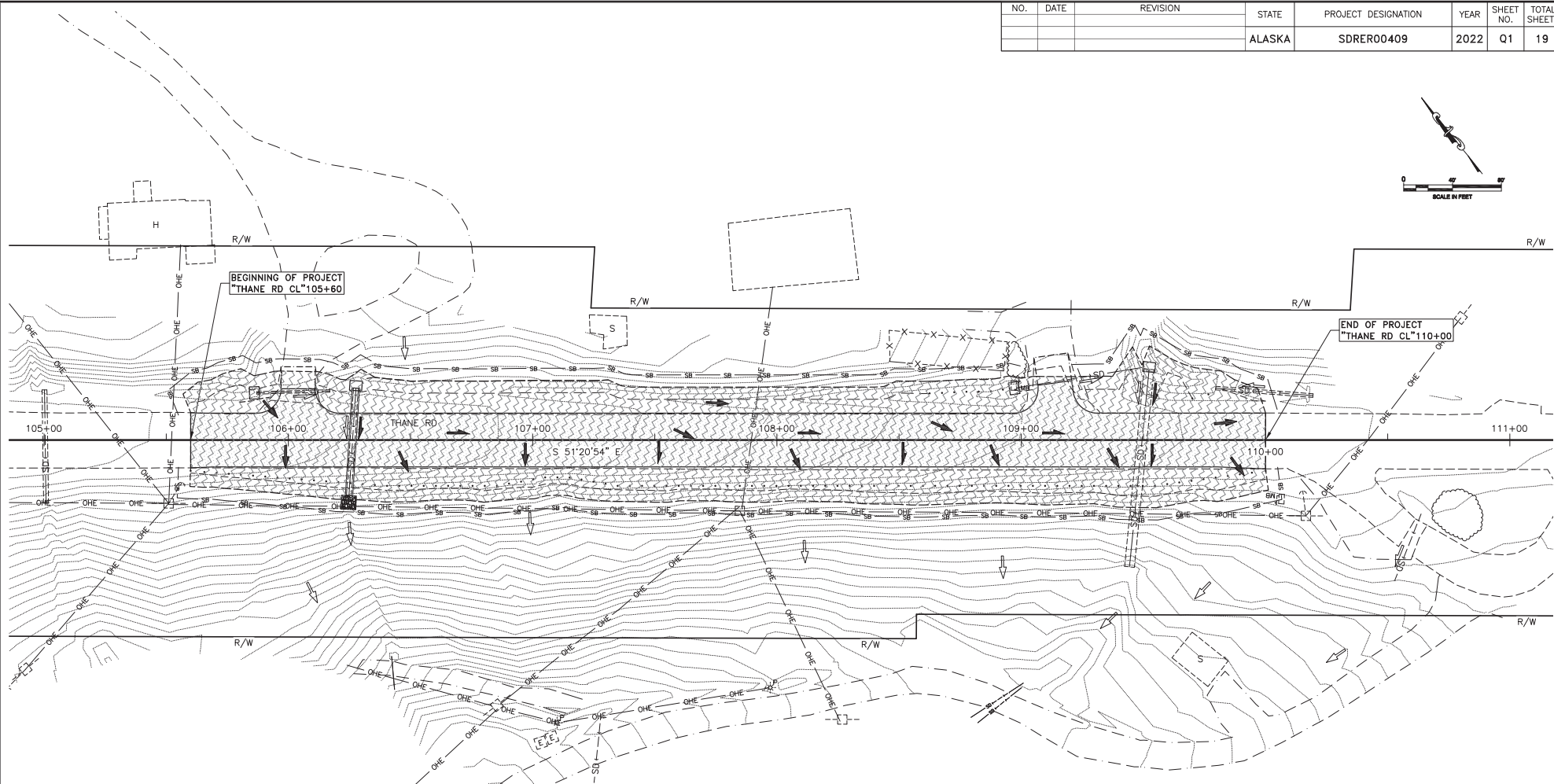
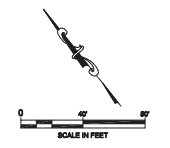
Record Drawings have been reviewed by the Project Engineer and represent the project as constructed.

Signature _____ Date _____

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569	TOP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES JNU THANE ROAD 00039 - DEC 20 SE PR CONSTRUCTION TRAFFIC PHASING
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00409	2022	Q1	19

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 DATE: 5/11/2022 12:45
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 DESIGNED:
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	SEDIMENT BARRIER
	INLET PROTECTION
	EXISTING CULVERT FLOW
	CULVERT FLOW DIRECTION
	PROFILE FLOW DIRECTION
	SURFACE FLOW DIRECTION
	DISTURBED AREA

Record Drawings have been reviewed by the
 Project Engineer and represent the project as
 constructed.

 Signature Date

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569	ESCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1120.7.3 DATED NOVEMBER 15, 2013	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES JNU THANE ROAD 00039 - DEC 20 SE PR EROSION SEDIMENT CONTROL PLAN MAP
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