

FILE c:\pwworking\west01\2364964\00408\_A1\_TITLE.dwg  
 DATE 11/29/2022 10:07  
 LAYOUT A1  
 DESIGNED ###  
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# STATE OF ALASKA

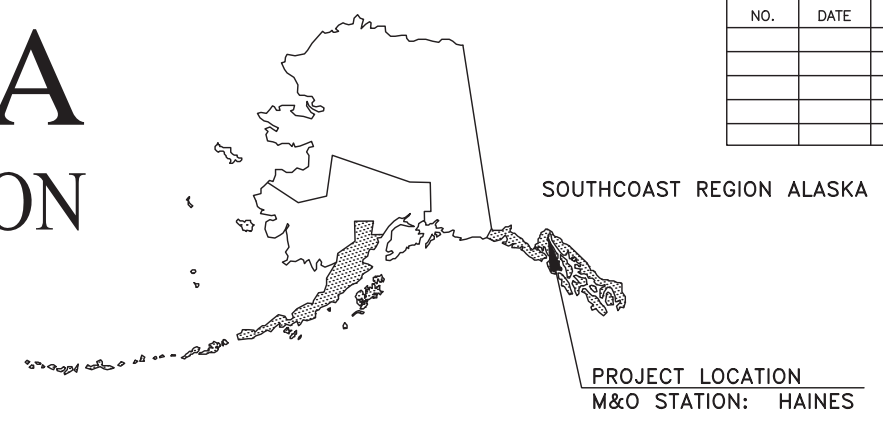
## DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

### PROPOSED HIGHWAY PROJECT

## HNS MOSQUITO LAKE ROAD #00044 - DEC 20 SE PR PROJECT NO. SDRER00408

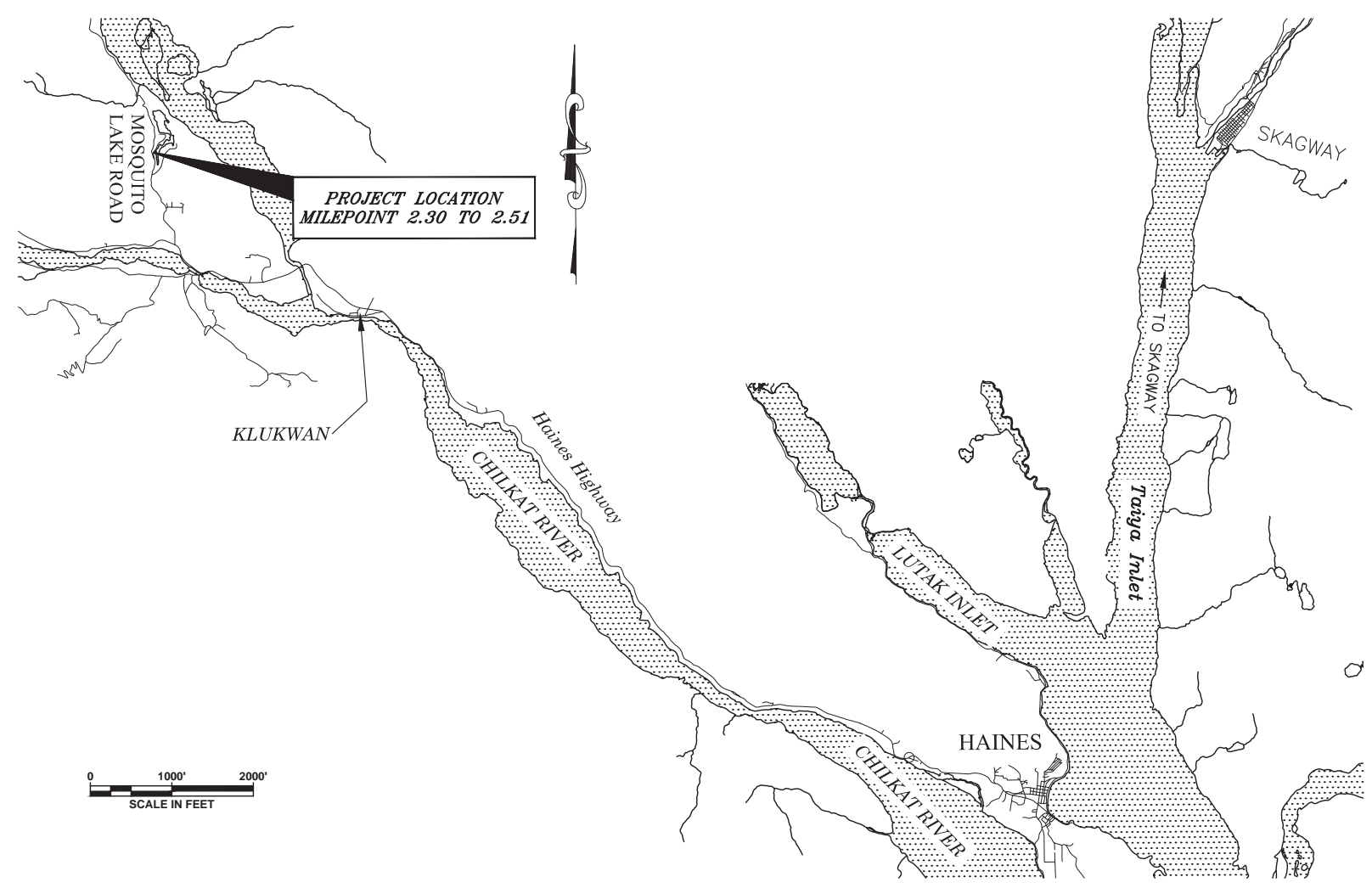
GRADING, DRAINAGE, PAVING, AND SIDE SLOPE STABILIZATION

NO.	DATE	REVISIONS	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	A1	18
			ROUTE ID: 2021006X000		MILEPOINT: 2.30-2.54		
			LATITUDE: 59.452029		LONGITUDE: -136.029157		
			LATITUDE: 59.454386		LONGITUDE: -136.028352		



PROJECT SUMMARY		
	MOSQUITO LAKE ROAD MPT 2.3 DI#461218	MOSQUITO LAKE ROAD MPT 2.5 DI#461643
WIDTH OF PAVEMENT	24'	22'
LENGTH OF PAVING	100'	30'
LENGTH OF PROJECT	100'	30'

DESIGN DESIGNATIONS	
FUNCTIONAL CLASS	MINOR COLLECTOR
PROJECT TYPE	RECONSTRUCTION
ADT (2020)	20
ADT (2045)	21
DHV (2020)	3
DHV (2045)	3
PERCENT TRUCKS (T)	4.47
DIRECTIONAL SPLIT (D)	52/48
DESIGN SPEED (V)	35
DESIGN EAL'S (20 YEARS)	N/A



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

*Jessica Pukala*

February 13, 2023

## AS BUILT DRAWINGS

Project Engineer: Zack Ferrin  
 Contractor: Glacier Construction DBA SERB  
 Begin Work Date: 5/18/2023  
 End Work Date: 6/29/2023

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

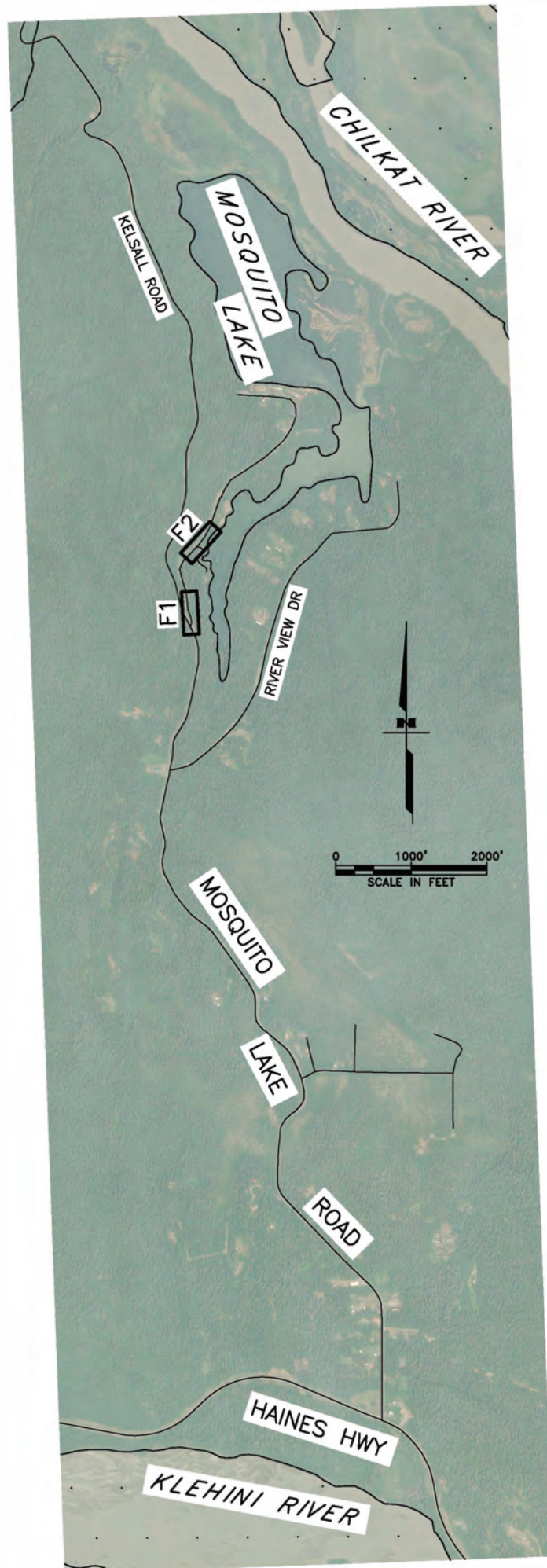
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801  
 (907) 465-1763

APPROVE: *DocuSigned by:*  
**Greg Lockwood** 12/9/2022  
3FEE8728C5AA40  
 KIRK MILLER, Regional Preconstruction Engineer

CONCUR: *DocuSigned by:*  
*D. Lance Meakig* 12/9/2022  
F255012206784D8...  
 D. LANCE MEAKIG, P.E.,  
 DIRECTOR, SOUTHCOAST REGION



FILE C:\work\k1\eng\west\01\22364966\A\00408\_A3-A4.dwg DATE 12/12/2022 16:14 LAYOUT A3 DESIGNED ## CHECKED ## DRAFTED #####



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE Zackery Ferrin

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	A3	18

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND
A3	LAYOUT AND INDEX OF SHEETS
A4	SURVEY CONTROL
B1-B2	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1	SUMMARY TABLES
E1-E2	DETAILS
F1-F3	PLAN AND PROFILE
Q1-Q2	EROSION SEDIMENT CONTROL PLAN
S1-S2	CONSTRUCTION PHASING
T1	TRAFFIC CONTROL PLAN

THE FOLLOWING STANDARD PLANS APPLY:  
 C-06.00  
 D-01.02, D-04.22, D-09.00, D-30.11, D-31.01  
 E-09.00

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 PLAT#67-172 HRD, OMINUBUS DEED, AND RS 2477. 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.
4. WORK BEYOND THE EXISTING RIGHT-OF-WAY LIMITS IS PERMISSIBLE FOR THE INSTALLATION OF PERMANENT EROSION CONTROL MEASURES. SEE LETTER OF NON-OBJECTION FROM THE DEPARTMENT OF NATURAL RESOURCES IN THE SPECIFICATIONS.

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE., SUITE 500 ANCHORAGE, AK 99503-4169 907-644-2000 CERT. OF AUTH. AECC569		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  HNS MOSQUITO LAKE ROAD #00044 - DEC 20 SE PR LAYOUT AND INDEX OF SHEETS
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FILE C:\hns\SDRER00317\SV\SOURCE\DWG\BASEMAP\Mosquito Lake\_SCS\_020122.dwg DATE 12/1/2022 9:44 LAYOUT AZ CHECKED E.PEDERSEN DRAFTED J.PAPOI DESIGNED J.PAPOI

**Horizontal Control**

Horizontal control for this project is based on the DOT&PF 24 to Border Grid System. It relates to Alaska State Plane Coordinate System Zone 1 NAD 83(1992) through the following parameters:

Zone = NAD83 (1992) AKSPCS ZONE 1  
 Grid Scale = 0.9999368053340  
 Convergence = -2°05'52.52"

AKSPCS Northing = 2792110.03294 FT US  
 AKSPCS Easting = 2184249.465700 FT US  
 Local Northing = 700000.00 FT US  
 Local Easting = 500000.00 FT US

**Project Specific Horizontal Control**

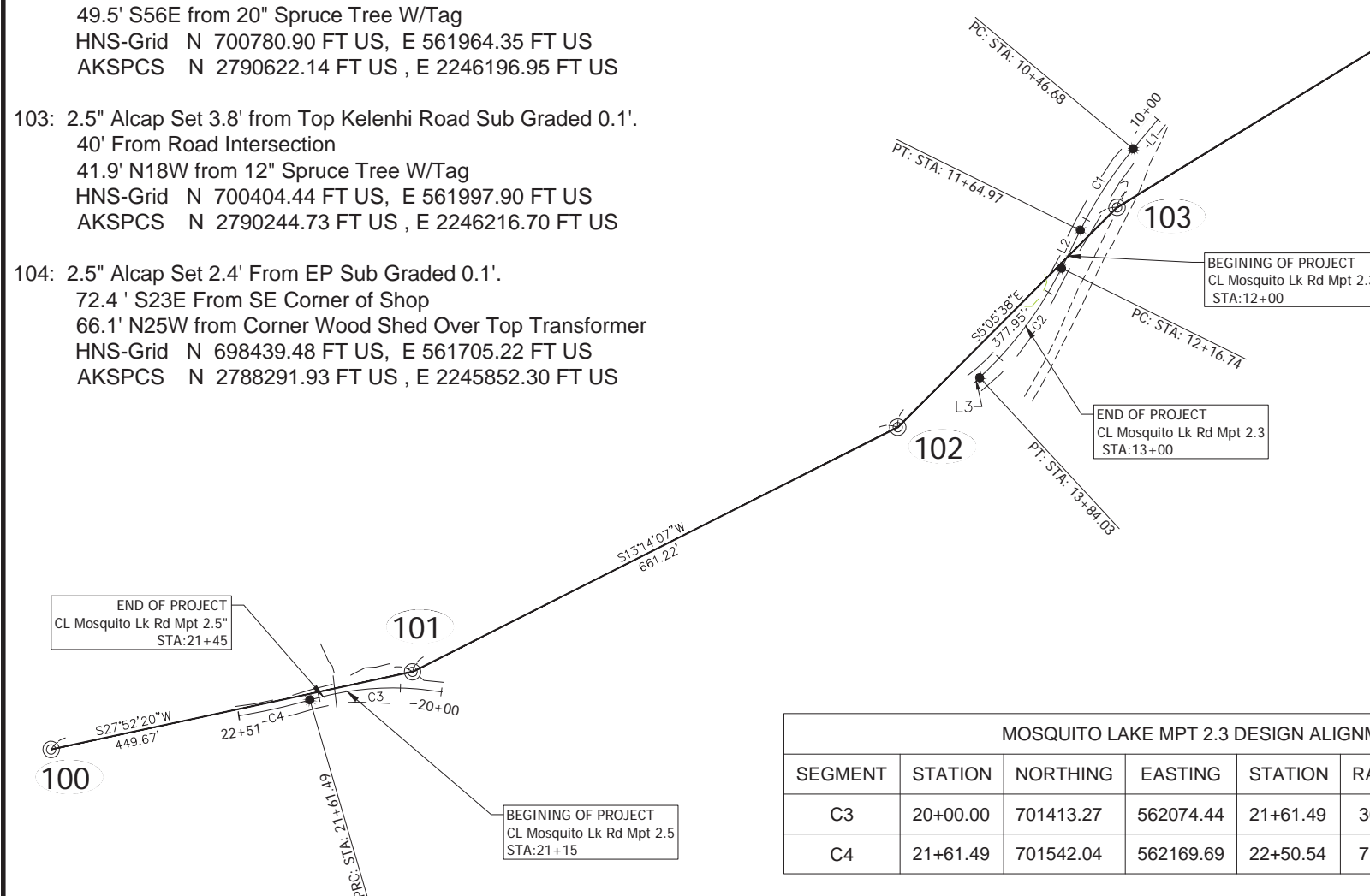
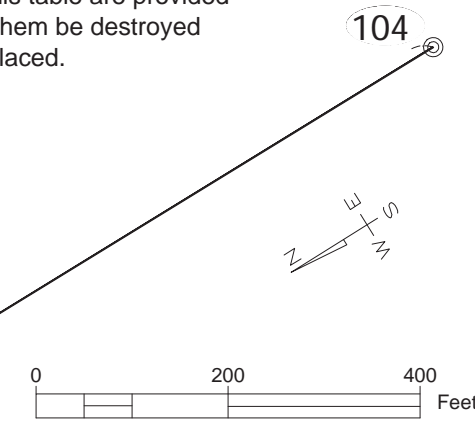
- 100: 2.5" Alcap Set 3.7' from EP Sub Graded 0.4'.  
 North of Entrance to Mosquito Lake, Out Bound Lane  
 85.8' N18W from 4X4 Post Top of Private Driveway  
 HNS-Grid N 701822.05 FT US, E 562325.95 FT US  
 AKSPCS N 2791649.30 FT US, E 2246596.40 FT US
- 101: 2.5" Alcap Set 1.2' from EP Sub Graded 0.2'.  
 North of Entrance to Mosquito Lake, South Of Culvert, Out Bound Lane  
 103.2' S10E from White Carsonite Post Over Inlet 18"CAP  
 HNS-Grid N 701424.55 FT US, E 562115.73 FT US  
 AKSPCS N 2791259.78 FT US, E 2246371.79 FT US
- 102: 2.5" Alcap Set 1.2' from EP Sub Graded 0.1'.  
 North of Kelenhi Dirt Road in Pull Out, Out Bound Lane  
 49.5' S56E from 20" Spruce Tree W/Tag  
 HNS-Grid N 700780.90 FT US, E 561964.35 FT US  
 AKSPCS N 2790622.14 FT US, E 2246196.95 FT US
- 103: 2.5" Alcap Set 3.8' from Top Kelenhi Road Sub Graded 0.1'.  
 40' From Road Intersection  
 41.9' N18W from 12" Spruce Tree W/Tag  
 HNS-Grid N 700404.44 FT US, E 561997.90 FT US  
 AKSPCS N 2790244.73 FT US, E 2246216.70 FT US
- 104: 2.5" Alcap Set 2.4' From EP Sub Graded 0.1'.  
 72.4' S23E From SE Corner of Shop  
 66.1' N25W from Corner Wood Shed Over Top Transformer  
 HNS-Grid N 698439.48 FT US, E 561705.22 FT US  
 AKSPCS N 2788291.93 FT US, E 2245852.30 FT US

Point #	Northing	Easting	Elevation	Description	Station	Offset
100	701822.05	562325.95	191.19	ALCAP2" _ DOT&PF CONTROL	N/A	N/A
101	701424.55	562115.73	159.74	ALCAP2" _ DOT&PF CONTROL	N/A	N/A
102	700780.90	561964.35	235.59	ALCAP2" _ DOT&PF CONTROL	N/A	N/A
103	700404.44	561997.90	245.09	ALCAP2" _ DOT&PF CONTROL	N/A	N/A
104	698439.48	561705.22	238.63	ALCAP2" _ DOT&PF CONTROL	N/A	N/A

SEGMENT	STATION	NORTHING	EASTING	STATION	RADIUS	LENGTH	DELTA
L1	10+00.00	700297.62	562048.02	10+46.68			
C1	10+46.68	700343.56	562039.75	11+64.97	500.00	118.29	13°33'18"
L2	11+64.97	700456.43	562005.27	12+16.74			
C2	12+16.74	700503.81	561984.41	13+84.03	455.00	167.29	21°03'58"
L3	13+84.03	700665.75	561946.33	13+94.02			

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	A4	18

All **SURVEY CONTROL** monuments in this table are provided strictly for survey control. Should any of them be destroyed during construction they **shall not** be replaced.

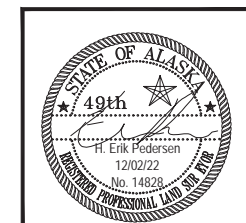


**Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.**

PE Zackery Ferrin

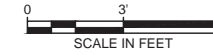
- MONUMENT NOTES:**
- IF ANY PAIR OF CONTROL POINTS DISAGREES FROM PUBLISHED VALUE BY MORE THAN 1:10,000 HORIZONTALLY OR VERTICALLY THEN A THIRD NETWORK POINT MUST BE TIED TO ASCERTAIN WHICH POINT IS IN ERROR OR HAS BEEN DISTURBED.
  - WHETHER LISTED OR NOT, ALL PROPERTY MONUMENTS, PROPERTY MARKERS, 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.
  - 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.
  - 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.
  - HORIZONTAL AND VERTICAL CONTROL MUST BE FIELD VERIFIED BY THE CONTRACTOR. DISCREPANCIES WILL BE REPORTED TO DOT&PF CONSTRUCTION PROJECT ENGINEER.

SEGMENT	STATION	NORTHING	EASTING	STATION	RADIUS	LENGTH	DELTA
C3	20+00.00	701413.27	562074.44	21+61.49	365.00	161.49	25°20'57"
C4	21+61.49	701542.04	562169.69	22+50.54	716.00	89.05	7°07'34"



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
 HNS MOSQUITO LAKE ROAD  
 #00044 - DEC 20 SE PR  
 SURVEY CONTROL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	B1	18



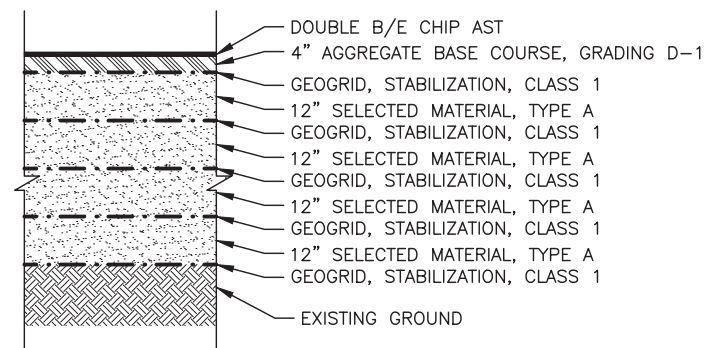
NOTES:

1. WITHIN TWO (2) DAYS AFTER PAVING, COMPLETE LINEAR GRADING TO ENSURE THERE IS NO VERTICAL DROP AT THE EDGE OF PAVEMENT. USE APPROVED TRAFFIC CONTROL DEVICES IN THE INTERIM.
2. AT FINAL STABILIZATION, PLACE TURF REINFORCEMENT MAT WHERE SHOWN IN PLANS OR AS DIRECTED BY ENGINEER.
3. SEE E SHEETS FOR DIGOUT TRANSITION DETAIL.

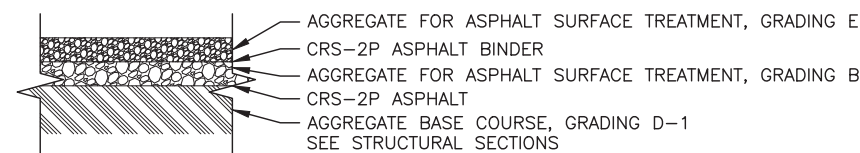
MOSQUITO LAKE ROAD  
STA. 12+00 TO STA. 13+00

Record Drawings have been reviewed by the  
Project Engineer, and represent to the best of  
my knowledge, the project as constructed.

PE Zackery Ferrin



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



DOUBLE B/E CHIP AST DETAIL

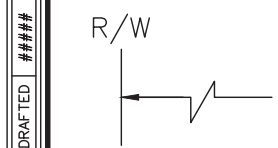
PLANS DEVELOPED BY:  
HDR ENGINEERING, INC.  
582 E 36TH AVE, SUITE  
500 ANCHORAGE, AK  
99503-4169  
907-644-2000  
CERT. OF AUTH. AEC569



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

HNS MOSQUITO LAKE ROAD  
#00044 - DEC 20 SE PR  
TYPICAL SECTION  
MOSQUITO LAKE ROAD MPT 2.3

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KELSALL ROAD

4" TOPSOIL, SEED, AND  
TURF REINFORCEMENT MAT  
SEE PLANS FOR LIMITS

EXISTING SLOPE VARIES

ORIGINAL GROUND

DITCH RECONDITIONING  
SEE PLANS FOR LIMITS

MATCH EXISTING AT  
CENTERLINE

12' LANE

2' SHOULDER

2%

4" TOPSOIL, SEED, AND TURF REINFORCEMENT MAT

SLOPE VARIES

FORESLOPE CATCH AT  
EXCAVATION DAYLIGHT

1  
B1

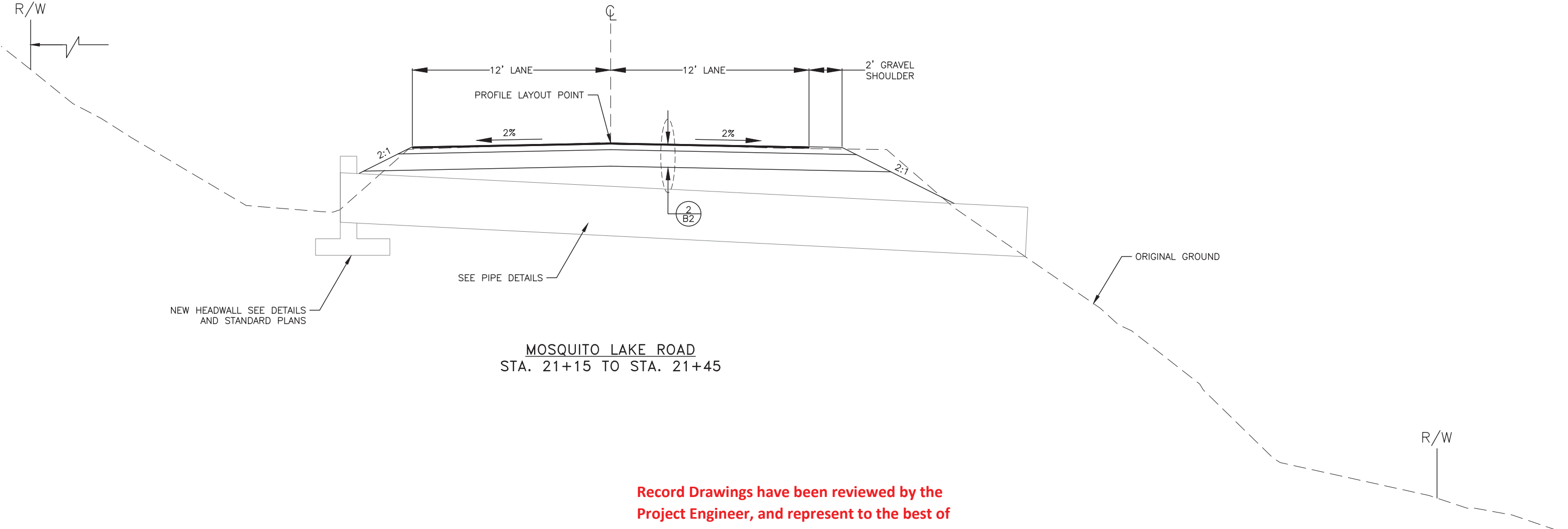
SELECTED MATERIAL,  
TYPE A (TYP)

ANCHOR GEOCELL IN  
EMBANKMENT PER  
MANUFACTURER'S  
RECOMMENDATIONS

GEOCELL FILLED WITH TOPSOIL  
MATCH EXISTING SLOPE  
APPLY SEED TO STABILIZED SLOPE

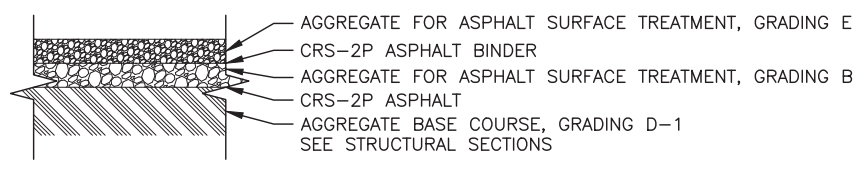
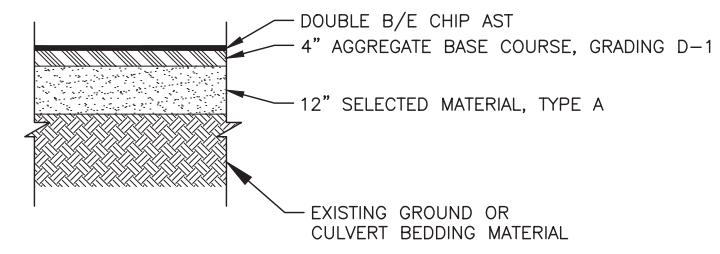
R/W

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	B2	18



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PE Zackery Ferrin



**2**  
B2 PAVEMENT STRUCTURAL SECTION NO. 2  
SCALE: 1:2

**DOUBLE B/E CHIP AST DETAIL**

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



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
HNS MOSQUITO LAKE ROAD #00044 - DEC 20 SE PR  
TYPICAL SECTION  
MOSQUITO LAKE ROAD MPT 2.5

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	D1	18

[201.0003.0000] CLEARING AND GRUBBING				
SHEET	STATION		AREA (ACRES)	REMARKS
	FROM	TO		
F1	12+00	13+00	0.17	
F3	21+15	21+45	0.03	
ROUNDED PAY ITEM QUANTITY:			0.2	

[202.0002.0000] REMOVAL OF PAVEMENT				
SHEET	STATION		REMOVAL OF PAVEMENT (SY)	REMARKS
	FROM	TO		
F1	12+00	13+00	133.3	
F3	21+15	21+45	80.0	
ROUNDED PAY ITEM QUANTITY:			214	

[202.0004.0000] REMOVAL OF CULVERT PIPE				
SHEET	STATION	OFFSET	LENGTH (FT)	REMARKS
F3	21+30	CL	43	
ROUNDED PAY ITEM QUANTITY:			43	

[611.0001.0002] - RIPRAP, CLASS II							
SHEET	STATION	OFFSET	LENGTH (FT)	X-SECTION AREA (FT <sup>2</sup> )	VOLUME (FT <sup>3</sup> )	VOLUME (CY)	REMARKS
F3	21+30	RT	42.0	35.2	1,477.3	54.7	
ROUNDED PAY ITEM QUANTITY:						55	

[618.0002.0000] SEEDING					
SHEET	STATION		OFFSET	WEIGHT (LB)	REMARKS
	FROM	TO			
F1	12+00	13+00	RIGHT	5.7	
F2	11+00	13+50	LEFT	5.8	
F3	21+15	21+45	LT/RT	1.3	
ROUNDED PAY ITEM QUANTITY:				13	

[619.2002.0000] TURF REINFORCEMENT MAT					
SHEET	STATION		OFFSET	AREA (SY)	REMARKS
	FROM	TO			
F1	12+00	13+00	RIGHT	115	
F2	11+00	13+50	LEFT	385	
ROUNDED PAY ITEM QUANTITY:				500	


[620.0001.0000] TOPSOIL					
SHEET	STATION		OFFSET	AREA (SY)	REMARKS
	FROM	TO			
F1	12+00	13+00	RIGHT	420	
F2	11+00	13+50	LEFT	430	
F3	21+15	21+45	LT/RT	100	
ROUNDED PAY ITEM QUANTITY:				950	

[634.0001.0001] GEOGRID, STABILIZATION, CLASS 1							
SHEET	STATION		LENGTH (FT)	WIDTH (FT)	AREA (FT <sup>2</sup> )	AREA (YD <sup>2</sup> )	REMARKS
	FROM	TO					
F1	12+00	13+00	100.0	14.7	1,468.0	163.1	TOP LAYER, BETWEEN AGGREGATE BASE COURSE, GRADING D-1 AND SELECTED MATERIAL, TYPE A
	12+05	12+96	91.2	15.3	1,393.5	154.8	2ND LAYER, 16" BELOW FINISHED GRADE
	12+09	12+92	83.4	15.9	1,325.2	147.3	3RD LAYER, 28" BELOW FINISHED GRADE
	12+13	12+88	75.3	16.5	1,241.7	138	4TH LAYER, 40" BELOW FINISHED GRADE
	12+17	12+84	67.3	17.1	1,150.8	127.9	5TH/BOTTOM LAYER, 52" BELOW FINISHED GRADE
ROUNDED PAY ITEM QUANTITY:						740	

[634.2000.0000] GEOCELL						
SHEET	STATION		LENGTH (FT)	AREA (FT <sup>2</sup> )	AREA (SY)	REMARKS
	FROM	TO				
F1	12+17	12+83	66	2,794	310.4	
ROUNDED PAY ITEM QUANTITY:					311	

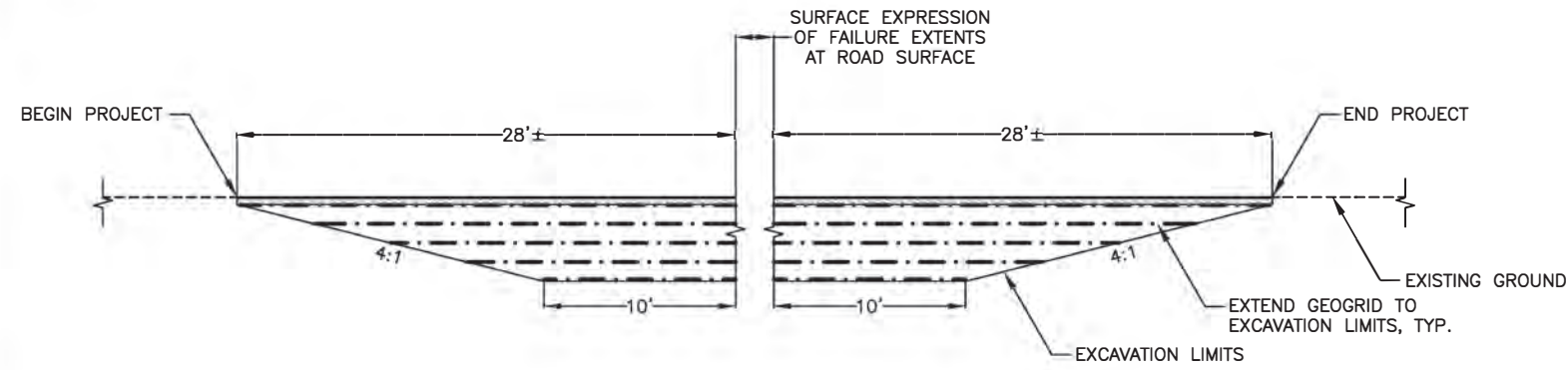
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE Zackery Ferrin

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE, SUITE 500 ANCHORAGE, AK 99503-4169 907-644-2000 CERT. OF AUTH. AECC569		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  HNS MOSQUITO LAKE ROAD #00044 - DEC 20 SE PR  SUMMARY TABLES
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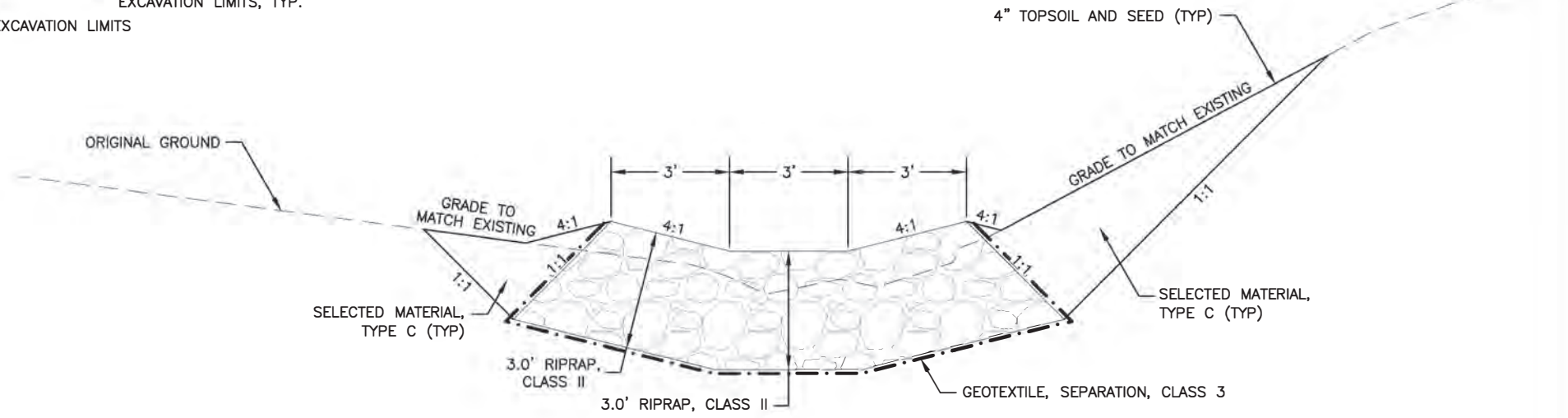
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	E1	18



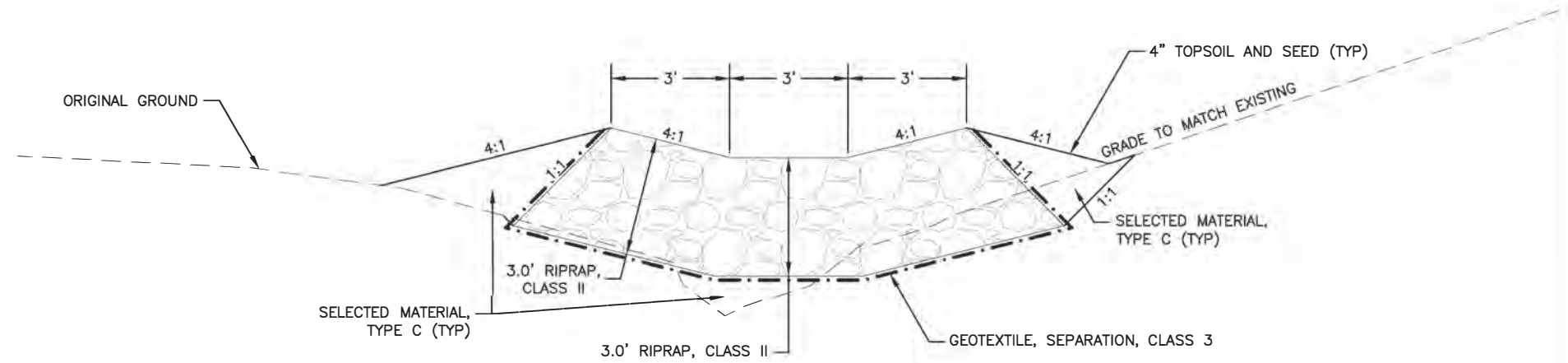
DEEP PATCH TRANSITION DETAIL

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PE Zackery Ferrin



RIPRAP DOWNFLUME - CUT SECTION



RIPRAP DOWNFLUME - FILL SECTION

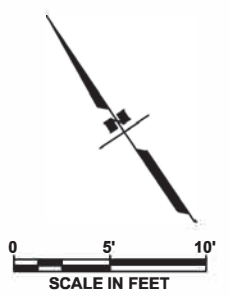
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PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE, SUITE 500 ANCHORAGE, AK 99503-4169 907-644-2000 CERT. OF AUTH. AECC569		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  HNS MOSQUITO LAKE ROAD #00044 - DEC 20 SE PR DETAILS
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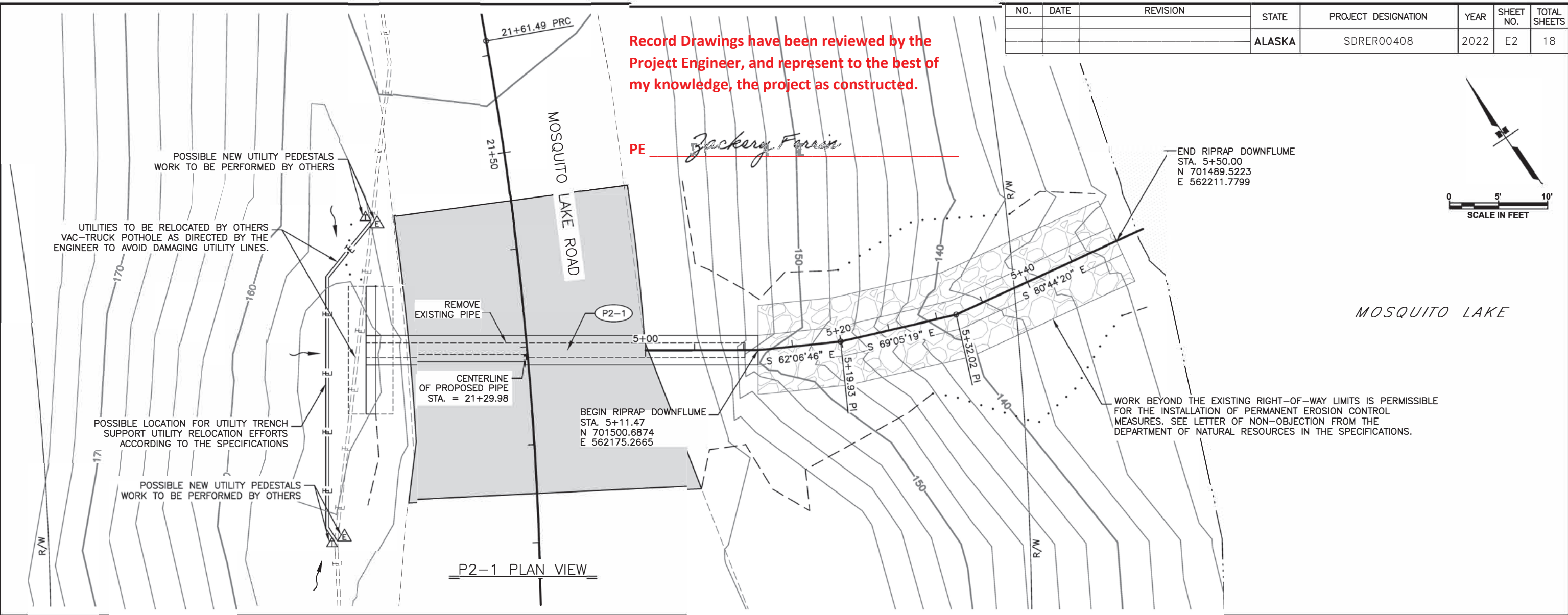
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	E2	18

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PE Zackery Ferris

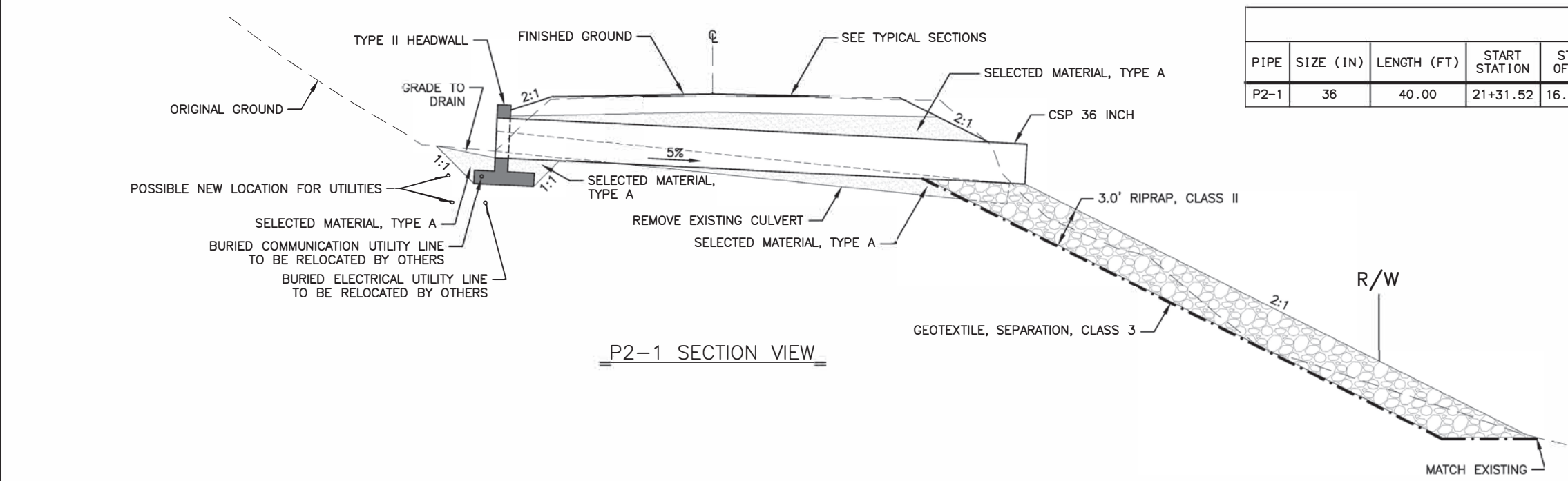


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P2-1 PLAN VIEW

PIPE	SIZE (IN)	LENGTH (FT)	START STATION	START OFFSET	START INVERT ELEV. (FT)	END STATION	END OFFSET	END INVERT ELEV. (FT)	% GRADE	REMARKS
P2-1	36	40.00	21+31.52	16.36' L	154.24	21+28.00	23.43' R	152.24	5.00%	CSP



P2-1 SECTION VIEW

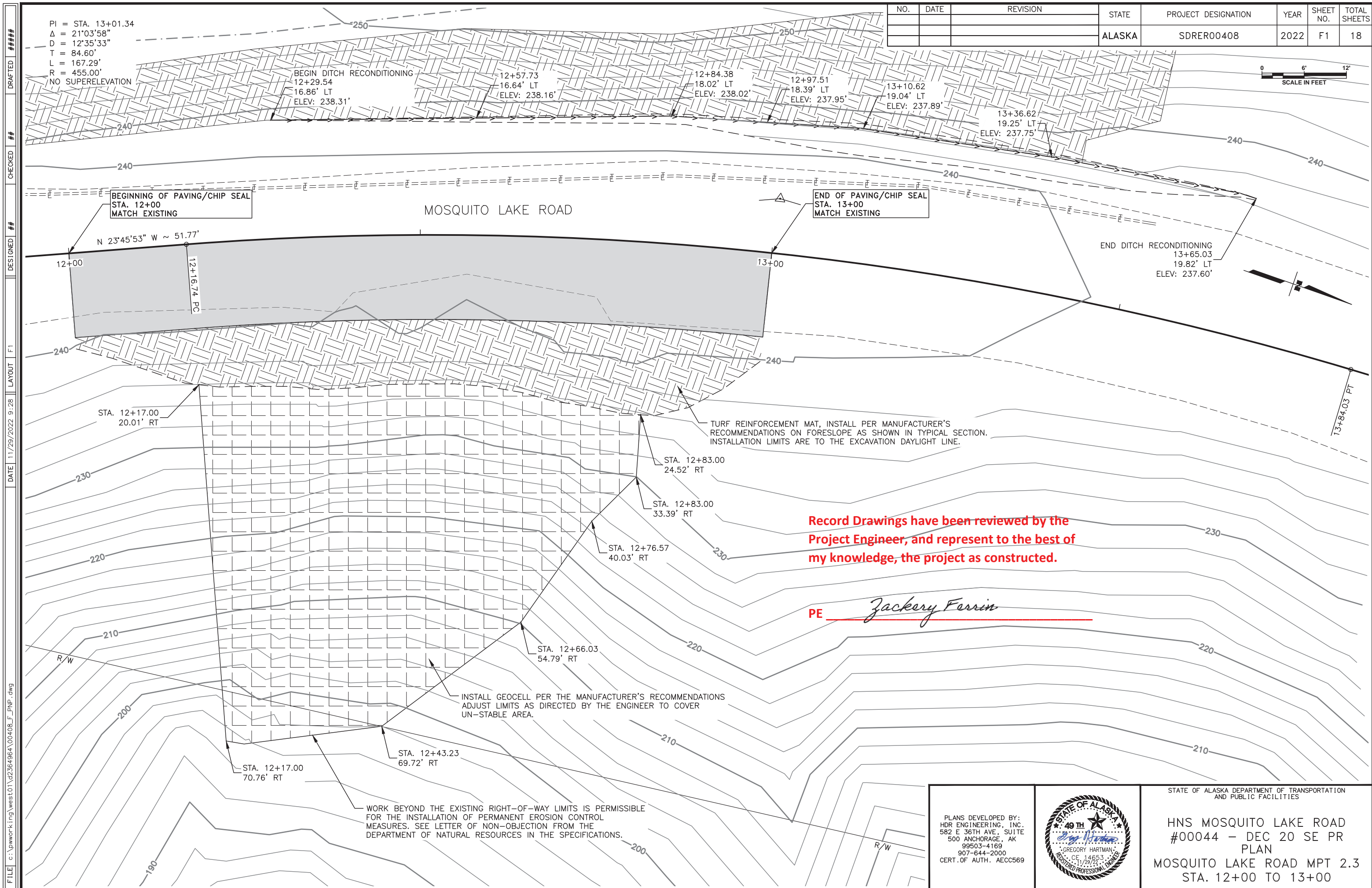
PLANS DEVELOPED BY:  
HDR ENGINEERING, INC.  
582 E 36TH AVE., SUITE  
500 ANCHORAGE, AK  
99503-4169  
907-644-2000  
CERT. OF AUTH. AECC569



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
HNS MOSQUITO LAKE ROAD  
#00044 - DEC 20 SE PR  
DETAILS  
PIPE PLAN AND SECTION VIEW

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	F1	18

PI = STA. 13+01.34  
 Δ = 21°03'58"  
 D = 12°35'33"  
 T = 84.60'  
 L = 167.29'  
 R = 455.00'  
 NO SUPERELEVATION



**Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.**

PE Zackery Ferrin

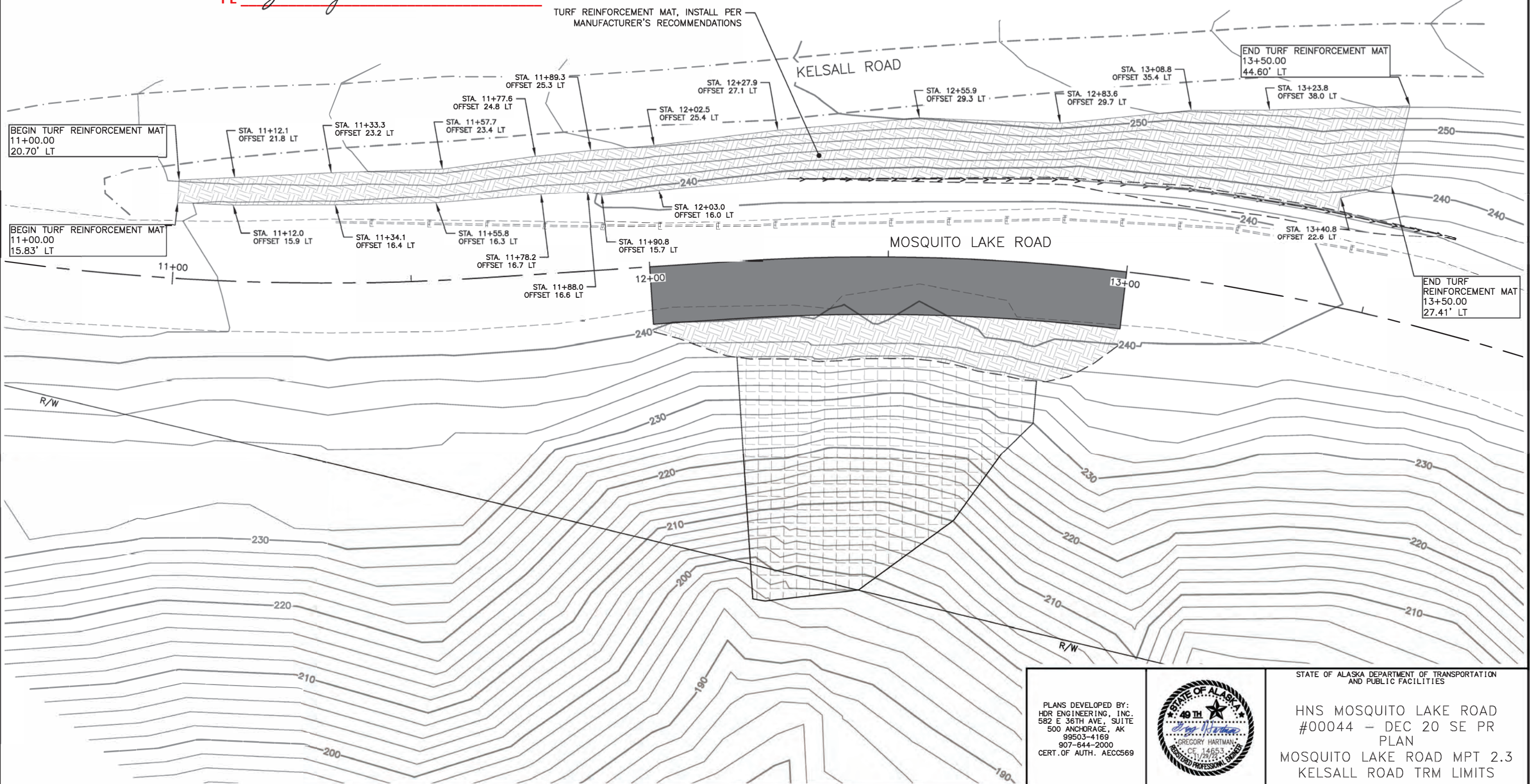
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 DATE 11/29/2022 9:28  
 LAYOUT F1  
 DESIGNED #  
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 DRAFTED #

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE, SUITE 500 ANCHORAGE, AK 99503-4169 907-644-2000 CERT. OF AUTH. AECC569		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  HNS MOSQUITO LAKE ROAD #00044 - DEC 20 SE PR PLAN MOSQUITO LAKE ROAD MPT 2.3 STA. 12+00 TO 13+00
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	F2	18

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE Zackery Ferrin

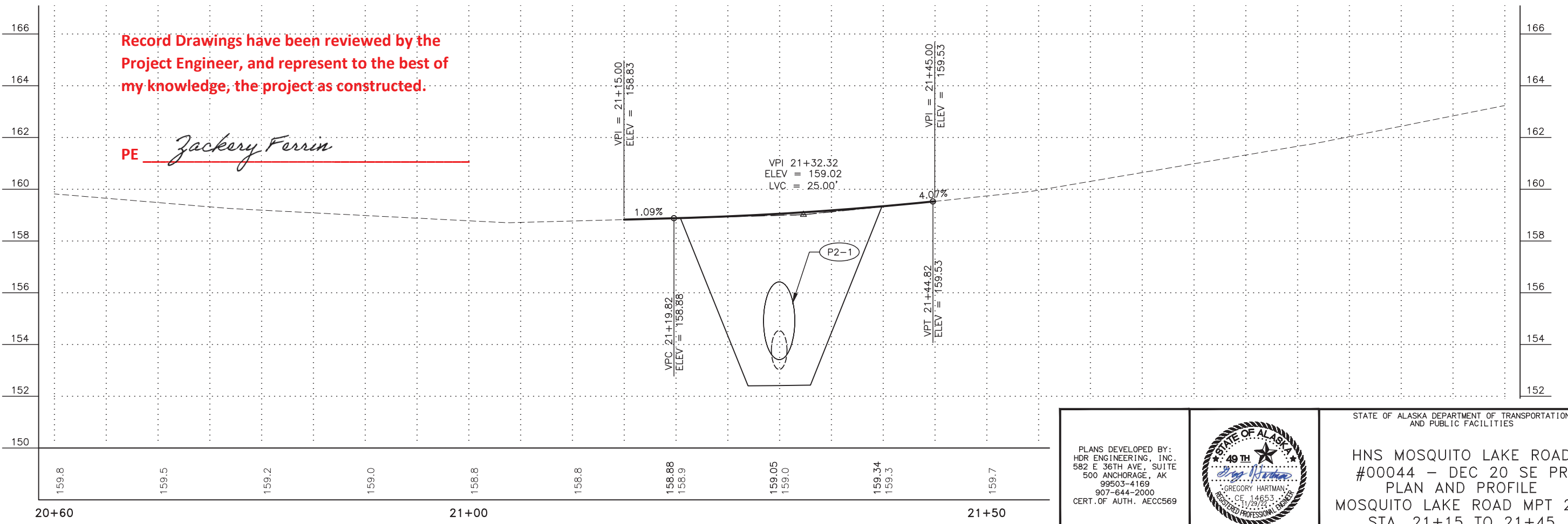
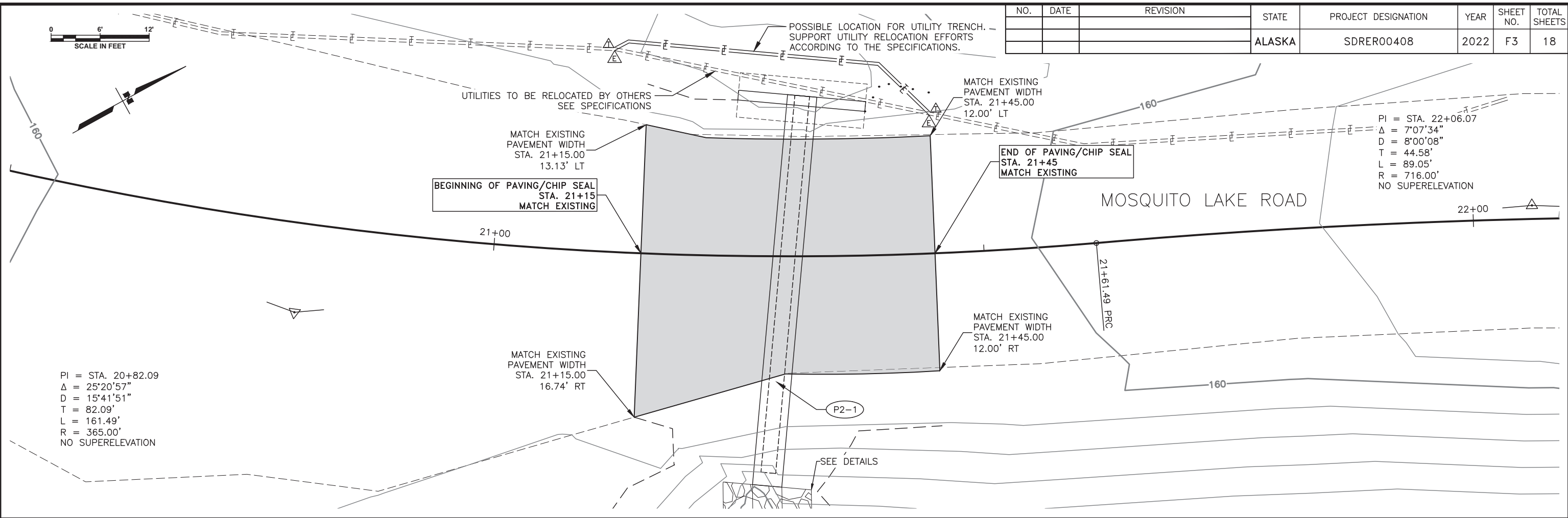


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 LAYOUT F2  
 DESIGNED ##  
 CHECKED ##  
 DRAFTED #####

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE, SUITE 500 ANCHORAGE, AK 99503-4169 907-644-2000 CERT. OF AUTH. AECC569		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  HNS MOSQUITO LAKE ROAD #00044 - DEC 20 SE PR PLAN MOSQUITO LAKE ROAD MPT 2.3 KELSALL ROAD TRM LIMITS
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	F3	18



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

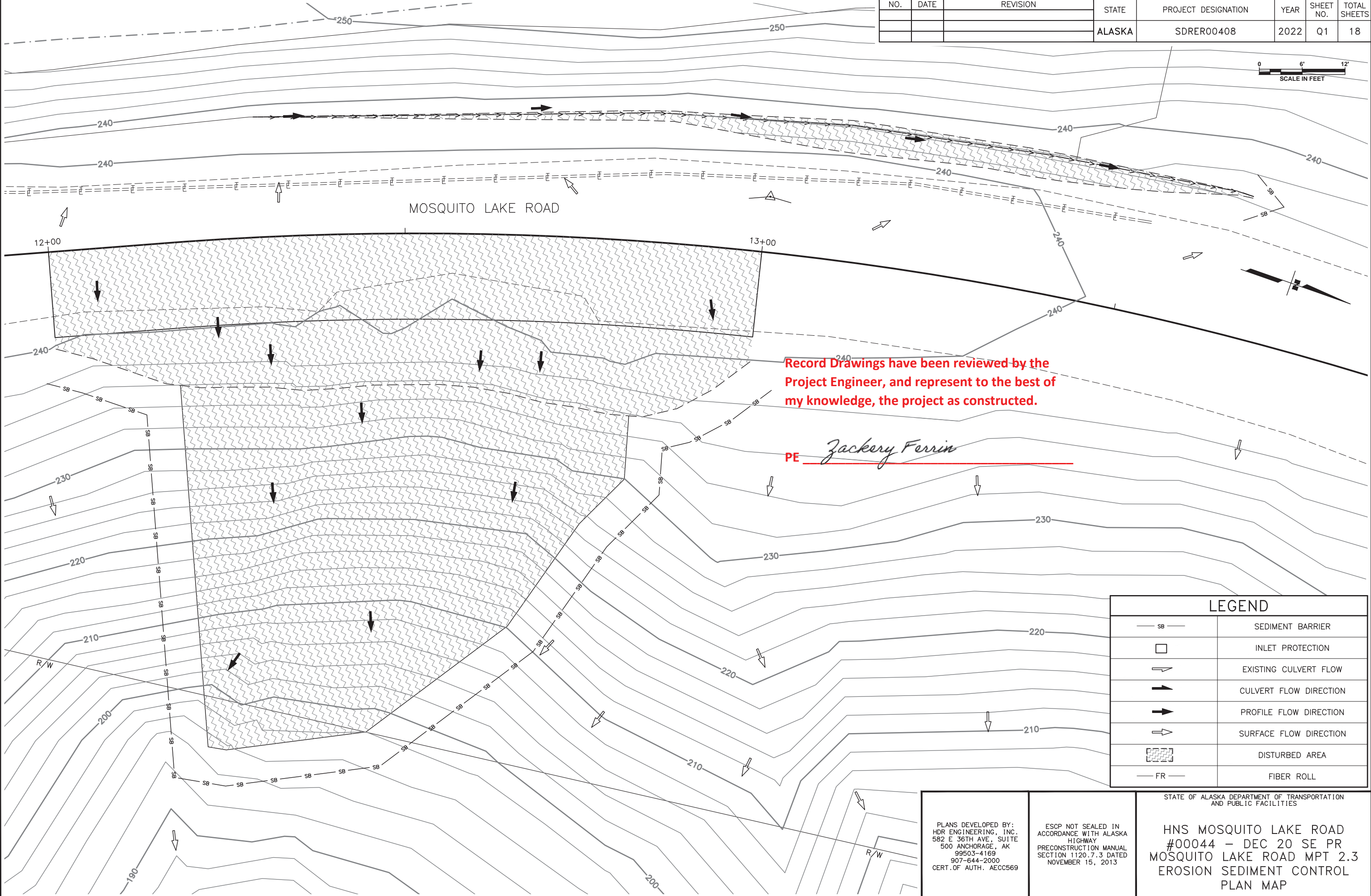
PE Zackery Ferrin

<p>PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE, SUITE 500 ANCHORAGE, AK 99503-4169 907-644-2000 CERT. OF AUTH. AECC569</p>		<p>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES</p> <p>HNS MOSQUITO LAKE ROAD #00044 - DEC 20 SE PR PLAN AND PROFILE MOSQUITO LAKE ROAD MPT 2.5 STA. 21+15 TO 21+45</p>
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	Q1	18



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 DATE 11/29/2022 9:34 LAYOUT 01 DESIGNED ## CHECKED ## DRAFTED ###



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE Zackery Ferrin

LEGEND	
— SB —	SEDIMENT BARRIER
□	INLET PROTECTION
⇨	EXISTING CULVERT FLOW
➔	CULVERT FLOW DIRECTION
➔	PROFILE FLOW DIRECTION
⇨	SURFACE FLOW DIRECTION
▨	DISTURBED AREA
— FR —	FIBER ROLL

PLANS DEVELOPED BY:  
 HDR ENGINEERING, INC.  
 582 E 36TH AVE, SUITE  
 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

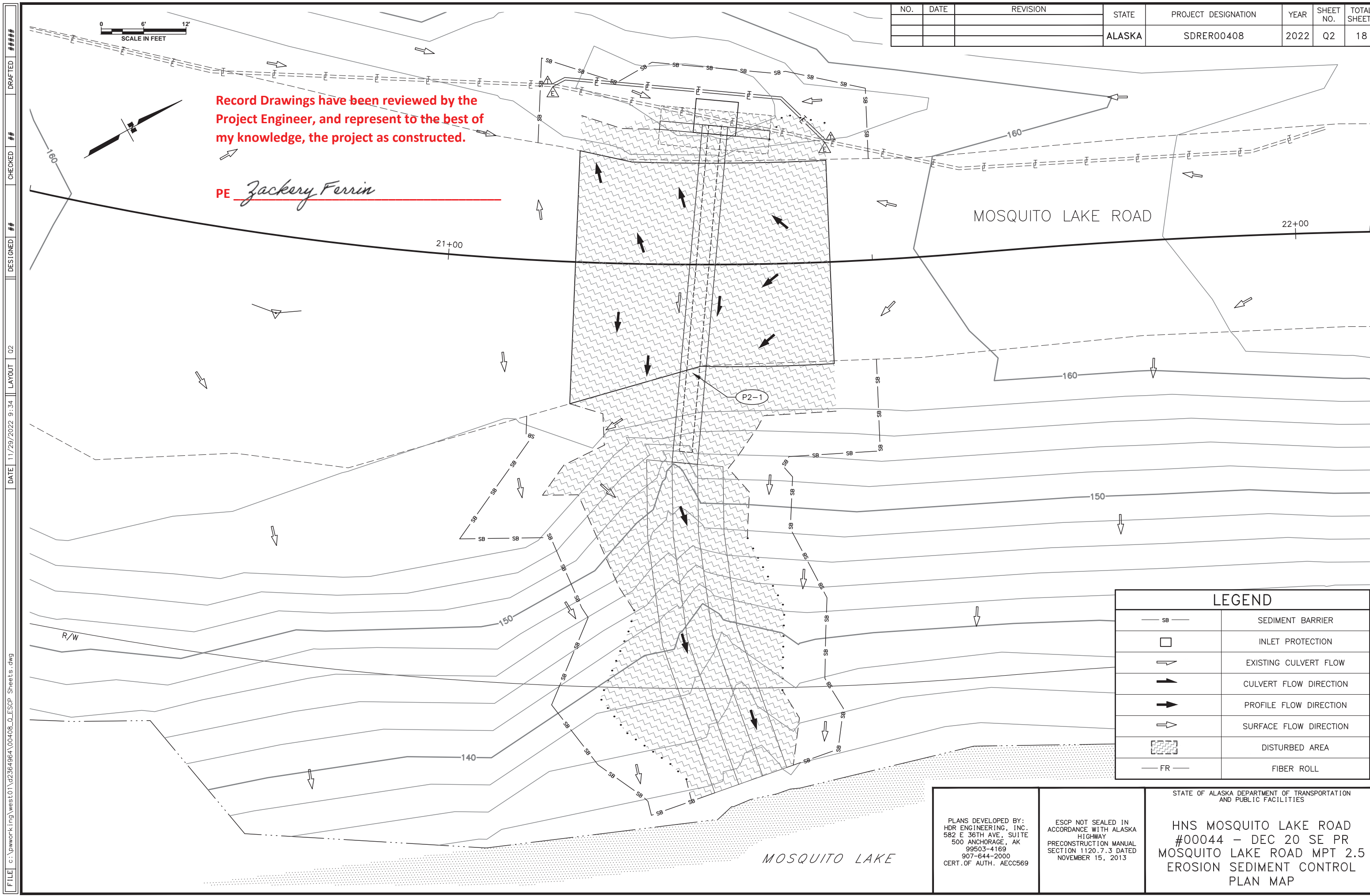
HNS MOSQUITO LAKE ROAD  
 #00044 - DEC 20 SE PR  
 MOSQUITO LAKE ROAD MPT 2.3  
 EROSION SEDIMENT CONTROL  
 PLAN MAP

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	Q2	18



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE Zackery Ferrin



LEGEND	
— SB —	SEDIMENT BARRIER
□	INLET PROTECTION
↘	EXISTING CULVERT FLOW
➔	CULVERT FLOW DIRECTION
➔	PROFILE FLOW DIRECTION
➔	SURFACE FLOW DIRECTION
▨	DISTURBED AREA
— FR —	FIBER ROLL

PLANS DEVELOPED BY:  
HDR ENGINEERING, INC.  
582 E 36TH AVE, SUITE  
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

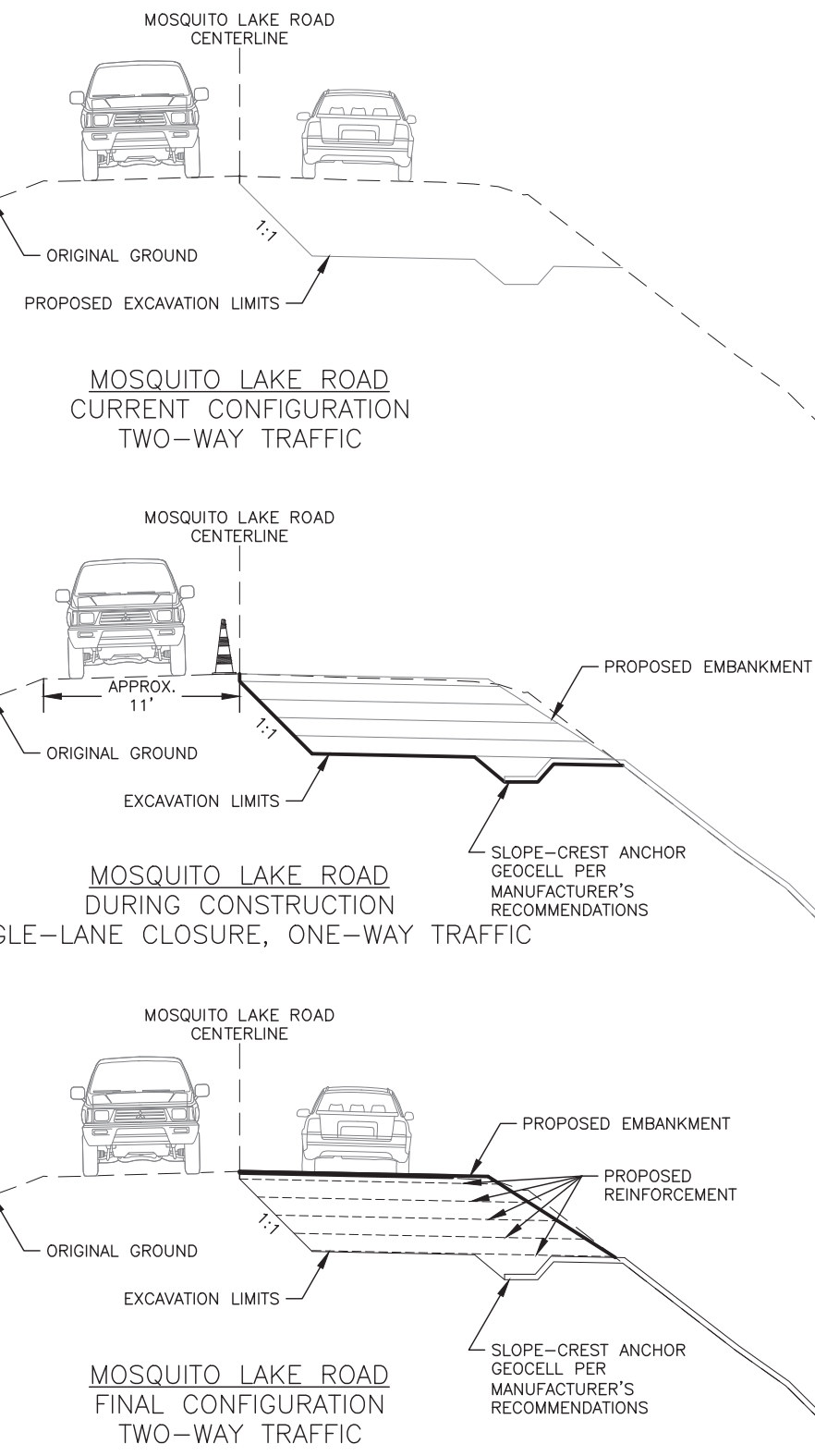
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

HNS MOSQUITO LAKE ROAD  
#00044 - DEC 20 SE PR  
MOSQUITO LAKE ROAD MPT 2.5  
EROSION SEDIMENT CONTROL  
PLAN MAP

FILE c:\pwork\ing\west01\2236496A\00408\_0\_ESCP\_Sheets.dwg DATE 11/29/2022 9:34 LAYOUT 02 DESIGNED ## CHECKED ## DRAFTED ###

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	S1	18

FILE c:\pwork\ing\west01\g236496A\00408\_TOP.dwg  
 DATE 12/12/2022 17:28  
 LAYOUT S1  
 DESIGNED ##  
 CHECKED ##  
 DRAFTED #####



- CONSTRUCTION PHASING SHOWN ON THIS SHEET IS A PROOF-OF-CONCEPT AND IS ONLY A SUGGESTION. DO NOT COMMENCE ANY WORK ON THIS SITE UNTIL THE PROJECT ENGINEER APPROVES A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH SECTION 643 OF THE SPECIFICATIONS.
- SUGGESTED GENERAL TRAFFIC PHASING:
  - REMOVE PAVEMENT FROM BEGINNING TO END OF PROJECT. USE A SINGLE LANE CLOSURE DURING PAVEMENT REMOVAL.
  - EXCAVATE THE NORTHBOUND LANE EMBANKMENT TO THE EXTENTS SHOWN IN THE PAVEMENT STRUCTURAL SECTION. USE A SINGLE LANE CLOSURE MAINTAIN TRAFFIC DURING EXCAVATION ACTIVITIES. UTILIZE MUTCD TYPICAL APPLICATION 10 FOR TRAFFIC CONTROL SETUP.
  - CONSTRUCT EMBANKMENT AND PAVE ROAD AS SHOWN IN TYPICAL SECTION. MAINTAIN SINGLE LANE CLOSURE DURING EMBANKMENT AND SURFACING OPERATIONS.

**Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.**

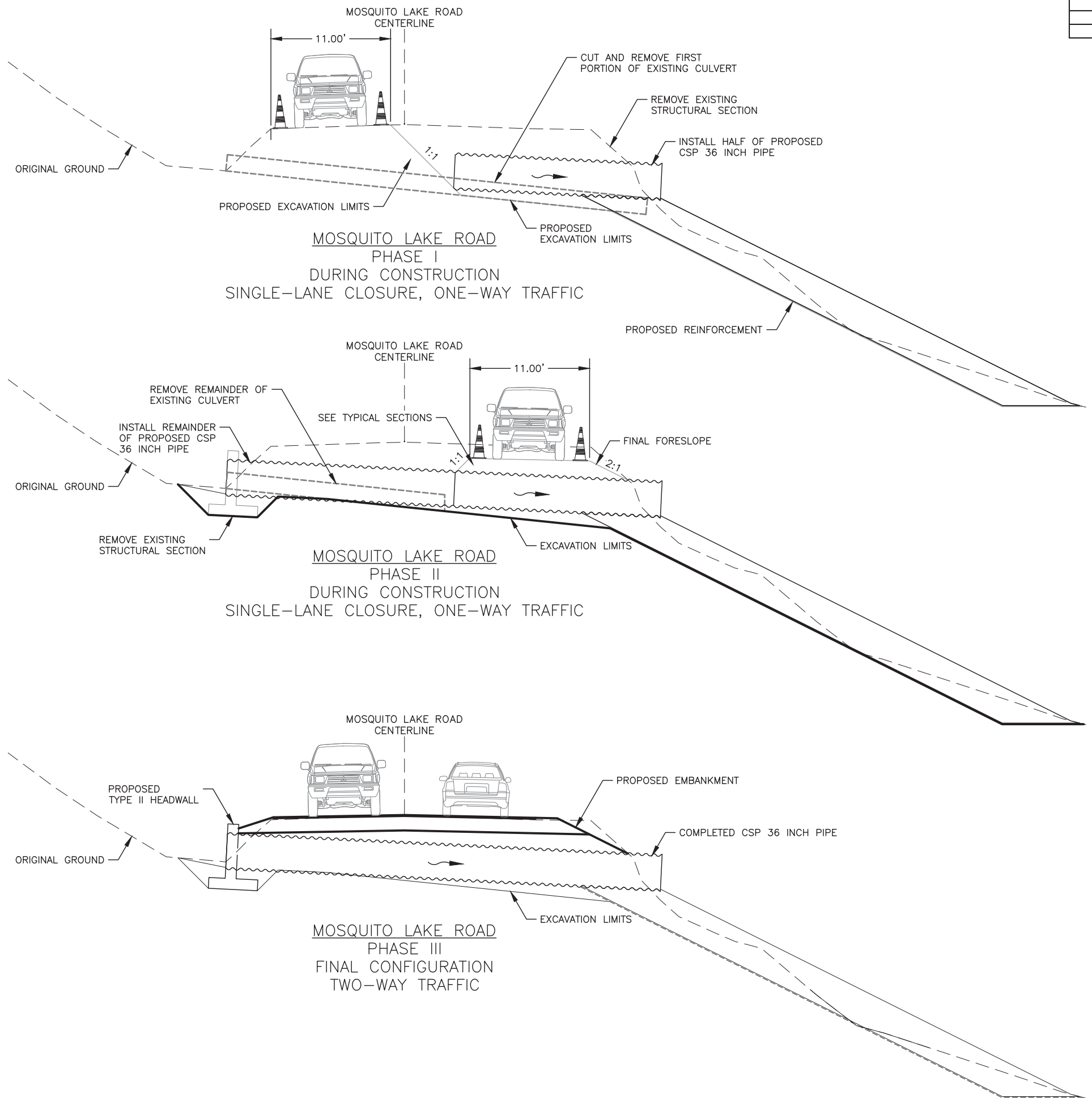
PE Jackery Ferrin

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE, SUITE 500 ANCHORAGE, AK 99503-4169 907-644-2000 CERT. OF AUTH. AECC569	SHEET PROVIDED FOR INFORMATIONAL PURPOSES ONLY	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  HNS MOSQUITO LAKE ROAD #00044 - DEC 20 SE PR  CONSTRUCTION PHASING MOSQUITO LAKE ROAD MPT 2.3
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	S2	18

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 DATE 12/12/2022 17:28 LAYOUT S2  
 DESIGNED ##  
 CHECKED ##  
 DRAFTED #####



NOTES:

- CONSTRUCTION PHASING SHOWN ON THIS SHEET IS A PROOF-OF-CONCEPT AND IS ONLY A SUGGESTION. DO NOT COMMENCE ANY WORK ON THIS SITE UNTIL THE PROJECT ENGINEER APPROVES A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH SECTION 643 OF THE SPECIFICATIONS.
- DE-WATER WORK AREA PRIOR TO BEGINNING EXCAVATION.
- SUGGESTED GENERAL TRAFFIC PHASING:
  - REMOVE PAVEMENT FROM BEGINNING TO END OF PROJECT. USE SINGLE LANE CLOSURES AND SWAP TRAFFIC BACK AND FORTH DURING PAVEMENT REMOVAL.
  - EXCAVATE THE NORTHBOUND LANE, CUT AND REMOVE THE FIRST PORTION OF EXISTING CULVERT AND INSTALL THE FIRST HALF OF THE PROPOSED CORRUGATED STEEL PIPE. MAINTAIN A SINGLE LANE OF TRAFFIC ON THE SOUTHBOUND LANE. UTILIZE MUTCD TYPICAL APPLICATION 10 FOR TRAFFIC CONTROL SETUP.
  - PLACE PIPE BEDDING AND CONSTRUCT EMBANKMENT ON THE NORTHBOUND LANE AS SHOWN IN TYPICAL SECTION UNTIL THE GRADE IS BROUGHT UP TO THE EXTENT NECESSARY TO PROTECT THE PIPE AND CREATE A TEMPORARY TRAFFIC LANE.
  - EXCAVATE THE SOUTHBOUND LANE AND REMOVE THE REMAINDER OF THE EXISTING CULVERT. INSTALL THE REMAINDER OF THE PROPOSED CORRUGATED STEEL PIPE. USE SINGLE LANE CLOSURES AND SWAP TRAFFIC BACK AND FORTH AS NEEDED TO PERFORM PIPE WORK AND COMPLETE EMBANKMENT AND SURFACING.

**Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.**

PE Zackery Ferrin

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE, SUITE 500 ANCHORAGE, AK 99503-4169 907-644-2000 CERT. OF AUTH. AECC569	SHEET PROVIDED FOR INFORMATIONAL PURPOSES ONLY	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  HNS MOSQUITO LAKE ROAD #00044 - DEC 20 SE PR CONSTRUCTION PHASING MOSQUITO LAKE ROAD MPT 2.5
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FILE c:\pwork\ing\west01\g236496A\00408\_TCP.dwg  
 DATE 12/12/2022 17:28  
 LAYOUT T1  
 DESIGNED ##  
 CHECKED ##  
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LANE CLOSURE ON TWO-LANE ROAD WITH LOW TRAFFIC VOLUMES

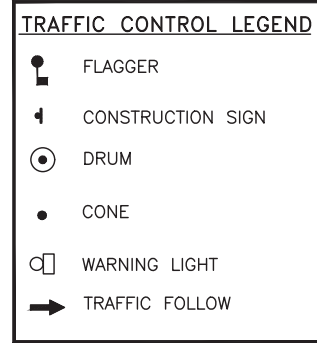
TCP SETUP TABLE					
SPEED 25 (MPH) OR BELOW	MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FT			MAX DEVICE SPACING ALONG TANGENT (FT)	BUFFER SPACE (FT)
	10'	11'	12'	(FT)	(FT)
	6 DEVICES EVENLY SPACED			50	155

TRAFFIC CONTROL NOTES:

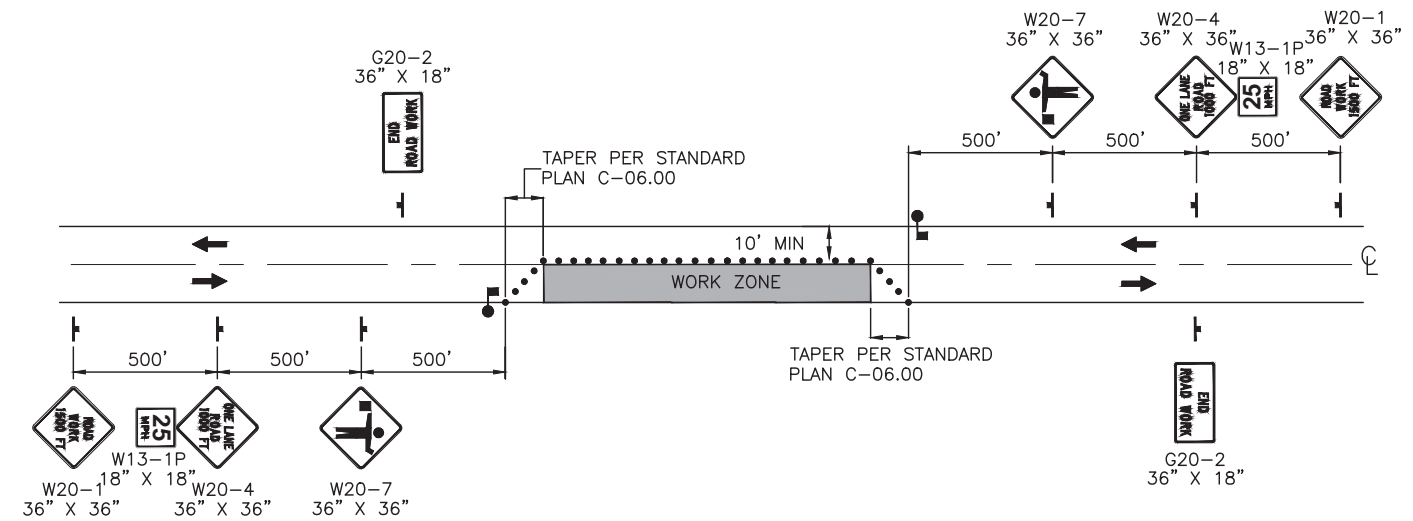
- SUBMIT ALL TRAFFIC CONTROL PLANS TO THE ENGINEER FOR APPROVAL AS DIRECTED IN THE SPECIFICATIONS.
- PERMANENT CONSTRUCTION SIGNS ARE NOT REQUIRED FOR THIS PROJECT. PLACE TEMPORARY SIGNS IN ACCORDANCE WITH THE APPROVED TRAFFIC CONTROL PLANS.
- TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0" WITH A MAXIMUM SPEED LIMIT OF 25 MPH.
- PLACE CONSTRUCTION SIGNS SUCH THAT THEY DO NOT OBSCURE EXISTING TRAFFIC SIGNS.

**Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.**

PE Zackery Ferrin



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00408	2022	T1	18



PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE, SUITE 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  HNS MOSQUITO LAKE ROAD #00044 - DEC 20 SE PR  TEMPORARY TRAFFIC CONTROL
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