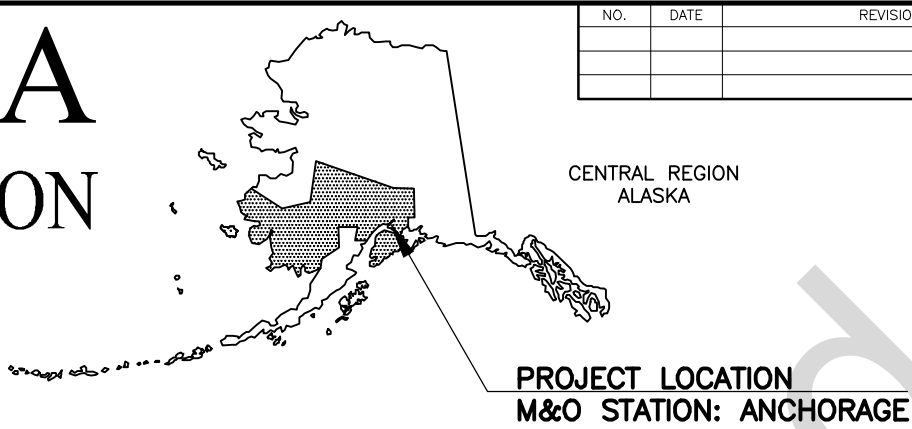


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CHECKED BY: DJ
SCALE: N/A
TIME: 1:35 PM
DATE: 7/7/2023
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT
**AMATS: VFW ROAD: EAGLE RIVER LOOP TO EAGLE
RIVER ROAD PAVEMENT PRESERVATION**
PROJECT NO. 001695/CFHWY00732
DRAINAGE, RECLAIMING, PAVING, BRIDGE,
SIGNING, AND STRIPING

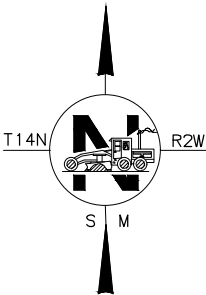
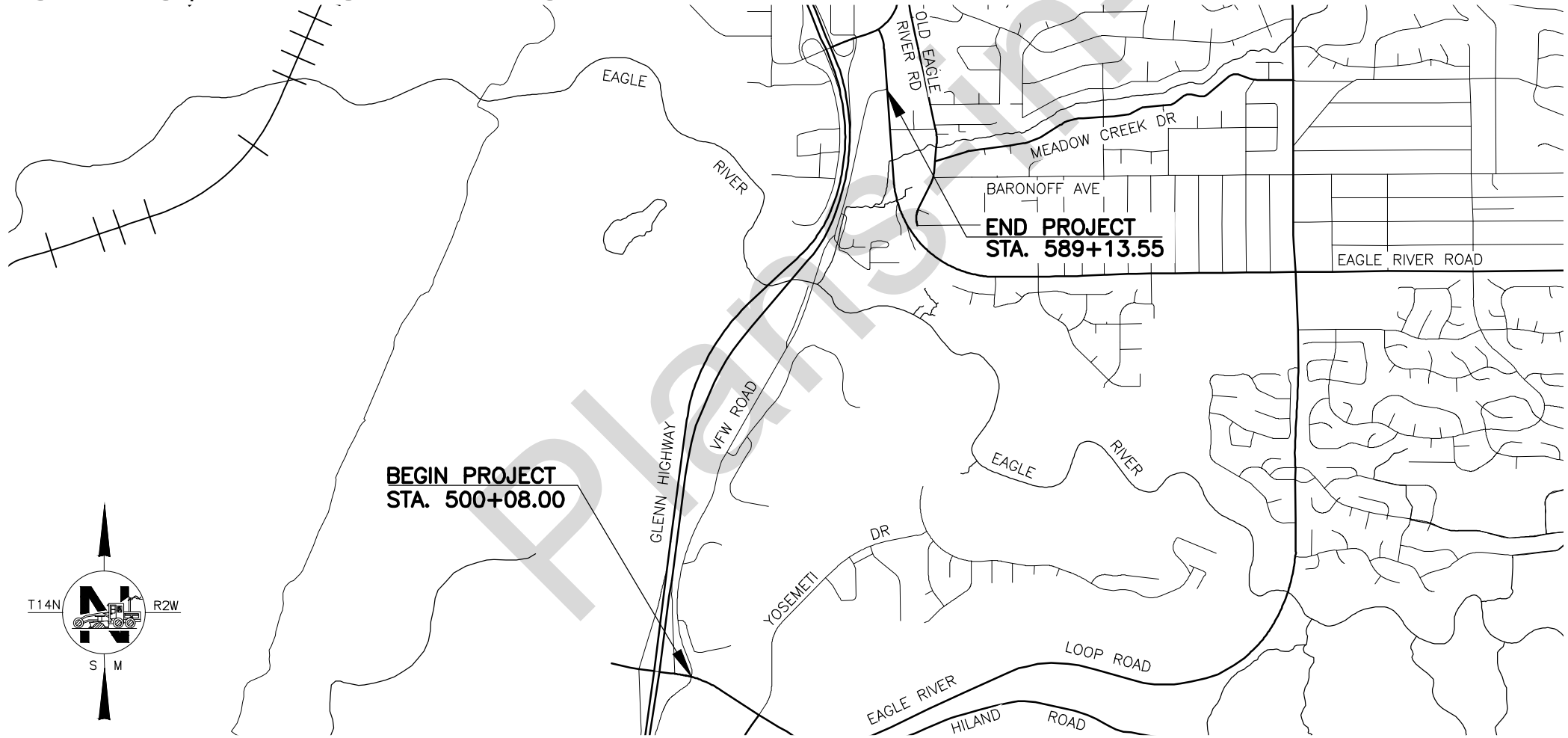


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001695/CFHWY00732	2023	A1	37
ROUTE ID	2301005X000	MILEPOINT	0.0 - 1.7				
LATITUDE	61.3099	LONGITUDE	-149.5775				

PROJECT SUMMARY		
ROADWAY	WIDTH	LENGTH
VFW MP 0.0-1.7	24 FT - 32 FT	1.7 MILES

DESIGN DESIGNATIONS			
ROADWAY	FUNCTIONAL CLASS	AADT (EXISTING YEAR)	DESIGN SPEED
VFW MP 0.0-1.2	LOCAL	1,120	45 MPH
VFW MP 1.2-1.7	MINOR COLLECTOR	1,110	45 MPH

BRIDGE DESIGNATIONS			
BRIDGE NAME	BRIDGE NUMBER	WIDTH (FT)	LENGTH (FT)
EAGLE RIVER	0535	47.6	243



PLANS DEVELOPED BY: LOUNSBURY & ASSOCIATES

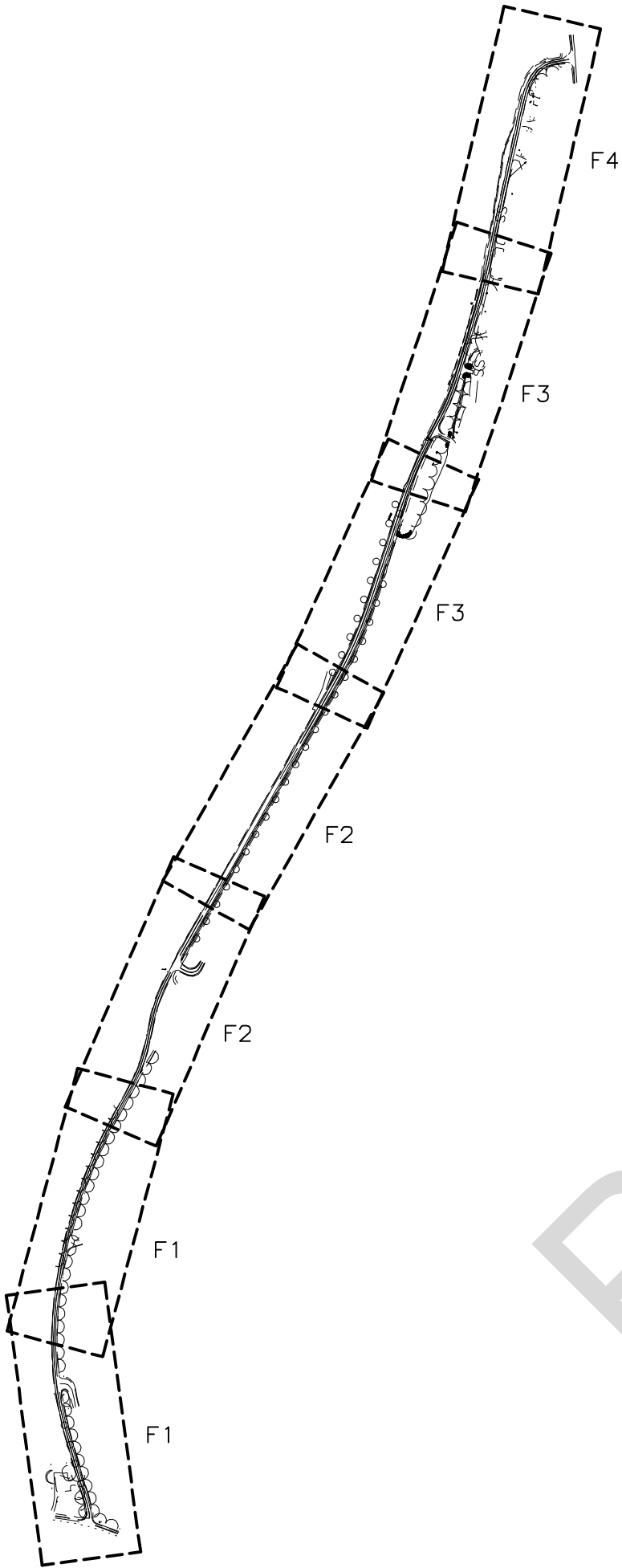
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
4111 AVIATION AVENUE, ANCHORAGE, AK 99502
(907)269-0590

APPROVED:

REGIONAL PRECONSTRUCTION ENGINEER DATE

CONCUR:

REGIONAL CONSTRUCTION ENGINEER DATE



ABBREVIATIONS	
&	AND
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ADA	AMERICANS WITH DISABILITIES ACT
ASP	ALASKA STANDARD PLAN
AVE	AVENUE
BOP	BEGINNING OF PROJECT
BLVD	BOULEVARD
CCTV	CLOSED CIRCUIT TELEVISION
CIPP	CURED IN PLACE PIPE
CMP	CORRUGATED METAL PIPE
CTWLTL	CONTINUOUS TWO WAY LEFT TURN LANE
DOT&PF	DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DWT	DETECTABLE WARNING TILE
DY	DOUBLE YELLOW
e	SUPERELEVATION
EA	EACH
EOP	END OF PROJECT
EP	EDGE OF PAVEMENT
FRP	FIBERGLASS REINFORCED PIPE
FT	FEET
HMA	HOT MIXED ASPHALT
HSIP	HIGHWAY SAFETY IMPROVEMENT PROGRAM
IN	INCH
LF	LINEAR FOOT
LT	LEFT
MB	MAIL BOX
ME	MATCH EXISTING
MPH	MILES PER HOUR
NO	NUMBER
N.T.S.	NOT TO SCALE
PM	PREVENTIVE MAINTENANCE
ROW	RIGHT OF WAY
RT	RIGHT
SD	STORM DRAIN
SS	SANITARY SEWER
ST	STREET
SW	SIDEWALK
SY	SQUARE YARD
TBC	TOP BACK OF CURB
TYP	TYPICAL
UNK	UNKNOWN

GENERAL NOTES:

1.

ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT-OF-WAY. NO EXCESS MATERIAL SHALL BE DISPOSED OF WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
2.

THE RIGHT-OF-WAY LINES SHOWN WERE TAKEN FROM ALASKA DOT&PF PROJECT GLENN HIGHWAY CAPACITY IMPROVEMENTS DB PHASE 1 NO. 54694 AND WERE INSERTED INTO THE PLANS USING A COMMON COORDINATE SYSTEM. THE LOCATION OF THE RIGHT-OF-WAY LINES HAVE NOT BEEN SURVEYED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF, AND STAY WITHIN, THE RIGHT-OF-WAY.
3.

ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATE METHOD APPROVED BY THE ENGINEER.
4.

CLEARING LIMITS SHALL BE WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
** DO NOT CLEAR BEYOND THE SLOPE STAKE CATCH POINT UNLESS OTHERWISE SHOWN ON THE PLANS.
5.

PLACE 4" TOPSOIL AND SEED ON ANY AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.
6.

SOME OF THE EXISTING INFORMATION SHOWN IN THE PLANS IS FROM AS-BUILTS AND HAS BEEN PARTIALLY FIELD VERIFIED. FIELD CONDITIONS MAY NOT BE ACCURATELY REPRESENTED AND/OR MAY HAVE CHANGED. ADJUST INSTALLATIONS AS DIRECTED BY THE ENGINEER.
7.

ADJUST ALL PAVEMENT PENETRATIONS TO FINAL GRADE PRIOR TO TOP LIFT OF PAVING.

IF ANY PAVEMENT PENETRATION REQUIRES GRADE ADJUSTMENT AFTER FINAL LIFT PAVING, AS DETERMINED BY THE ENGINEER, SAW CUT A NEAT LINE ALONG THE PAVEMENT TO BE REMOVED. USE AN INFRARED HEATER TO HEAT THE EXISTING PAVEMENT; EQUIPMENT AND MAXIMUM TEMPERATURE SHALL BE APPROVED BY THE ENGINEER. REPLACE THE REMOVED ASPHALT WITH NEW HOT MIX ASPHALT AND THOROUGHLY COMPACT. SEAL JOINTS, AT LEAST 12 INCHES WIDE CENTERED ON JOINT, USING ASPHALT SYSTEMS GSB-88, OR APPROVED EQUAL, WHILE THE HOT MIX ASPHALT IS CLEAN, FREE OF MOISTURE AND PRIOR TO STRIPING.

THERE SHALL BE NO PAYMENT FOR ADDITIONAL WORK CAUSED BY FAILURE TO ADJUST PAVEMENT PENETRATIONS TO FINAL GRADE.
8.

FOR PARALLEL GUARDRAIL TERMINALS, USE AN END OFFSET OF 1 FOOT.
9.

LOCATION OF FORCE SEWER MAIN IS APPROXIMATE BASED ON AS-BUILTS AND WAS NOT SURVEYED.

INDEX	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SHEET LAYOUT, INDEX, AND GENERAL NOTES
A3	LEGEND
A4-A7	SURVEY CONTROL SHEETS
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1-D2	SUMMARY TABLES
E1-E5	DETAIL SHEETS
F1-F4	PLAN SHEETS
G1-G2	GRADING PLANS
H1	TRAFFIC LEGEND & NOTES
H2-H3	SIGN DETAIL SHEETS
H4-H7	SIGN SUMMARIES
N1-N8	BRIDGE SHEETS

THE FOLLOWING CENTRAL REGION STANDARD DETAILS APPLY TO THIS PROJECT:

CR-T-01.20

IN THE EVENT OF CONFLICT, CENTRAL REGION STANDARD DETAILS SUPERSEDE ALASKA STANDARD PLANS, STANDARD MODIFICATIONS, AND STANDARD SPECIFICATIONS. PLANS AND SPECIAL PROVISIONS SUPERSEDE CENTRAL REGION STANDARD DETAILS.

THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT:

C-04.12, C-05.20, D-01.02, D-04.22, D-06.10, G-00.05, G-05.11S, G-05.11W G-10.21, G-11.01, G-20.12, G-26.00, G-29.01, G-32.03, M-13.01, M-16.01, M-20.15, M-23.13, S-00.12, S-05.02, S-23.00, S-30.05, S-31.02, S-32.02, T-05.10, T-06.00, T-20.04, T-21.04, T-22.04, T-25.10,

SPECIFICATION:

CONSTRUCT THE IMPROVEMENTS COVERED BY THESE PLANS IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES 2020 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE PROJECT SPECIAL PROVISIONS.



PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES INC.
3230 C ST, SUITE 201, ANCHORAGE AK
99503 (907) 272-5451
CERTIFICATE OF AUTHORIZATION
NUM. AEGC391

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION**

SHEET LAYOUT INDEX

ROADWAY		
	EXISTING	PROPOSED
EDGE OF PAVEMENT		
LIMIT OF CUT SLOPE & FILL SLOPE		
GRAVEL EDGE		
SIDEWALK AND PATH/TRAIL		
CONCRETE CURB & GUTTER		
CONCRETE CURB CUT		
PARALLEL CURB RAMP		
PERPENDICULAR CURB RAMP		
UNIDIRECTIONAL CURB RAMP & MID-BLOCK CURB RAMP		
DETECTABLE WARNING TILE		
BRIDGE		
TUNNEL		
GUARDRAIL		
END & PARALLEL END SECTIONS		
ROADWAY OBLITERATION		
FENCE		
STONE FENCE		
NOISE BARRIER		
RETAINING WALL		
HEADWALL & WINGWALL		
BOTTOM OF DITCH		
SPECIAL DITCH		
FLAT BOTTOM DITCH		
BERM		
RIPRAP		
BOULDER OR BOULDERS		
PRIVATE SIGN, MAILBOX		
POST, BOLLARD		

UTILITIES		
	EXISTING	PROPOSED
STORM DRAIN		
STORM DRAIN MANHOLE, CLEANOUT		
CURB INLET CATCH BASIN		
FIELD INLET CATCH BASIN		
PIPE CULVERT WITH END SECTION		
SANITARY SEWER		
SANITARY SEWER MANHOLE, CLEANOUT		
SEPTIC VENT, SEWER SERVICE CONNECTION		
WATER		
FIRE HYDRANT, VALVE OR RISER		
WELL, WATER SERVICE CONNECTION		
NATURAL GAS		
OIL OR GASOLINE PIPELINE		
TANKS (ABOVE GROUND, UNDERGROUND)		
ELECTRIC		
UTILITY POLE, POLE WITH LUMINAIRE		
GUY POLE, GUY WIRE ANCHOR		
TRANSMISSION TOWER (WOOD, STEEL)		
ELECTRIC PEDESTAL, TRANSFORMER		
ELECTRIC MANHOLE, METER		
ELECTRIC OUTLET, LANDSCAPE LIGHT		
TELEPHONE		
TELEPHONE MANHOLE, PEDESTAL		
FIBER OPTIC		
FIBER OPTIC MANHOLE		
CABLE TV		
CABLE TV PEDESTAL, SATELLITE DISH		
UNDERGROUND DUCT, UTILIDOR (ELECTRIC, TELEPHONE, FIBER OPTIC)		
VENT		

TRAFFIC		
	EXISTING	PROPOSED
LOAD CENTER		
STATE TRAFFIC, MOA TRAFFIC, & BEACON CONTROLLER		
ARROW INDICATES DOOR LOCATION		
TYPE 1A, II, III, IV JUNCTION BOX		
FIBER OPTIC VAULT		
ELECTROLIER		
HIGHTOWER		
SIGNAL POLE WITH MASTARM		
PEDESTRIAN PUSH BUTTON & SIGNAL		
VEHICULAR SIGNAL		
VEHICULAR SIGNAL LEFT & RIGHT		
OPTICAL, CAMERA, RADAR, AND GPS DETECTOR		
LOOP DETECTOR		
COMMUNICATION ANTENNA		
MASTARM BEACON		
RURAL & SCHOOL ZONE BEACON		
LOOP DETECTOR CONDUIT		
SIGNAL CONDUIT		
LIGHTING CONDUIT		
SIGNAL & LIGHTING CONDUIT		
CONDUIT BORING		
CONDUIT SIZE IN INCHES		
INTERCONNECT		
SIGN POST		

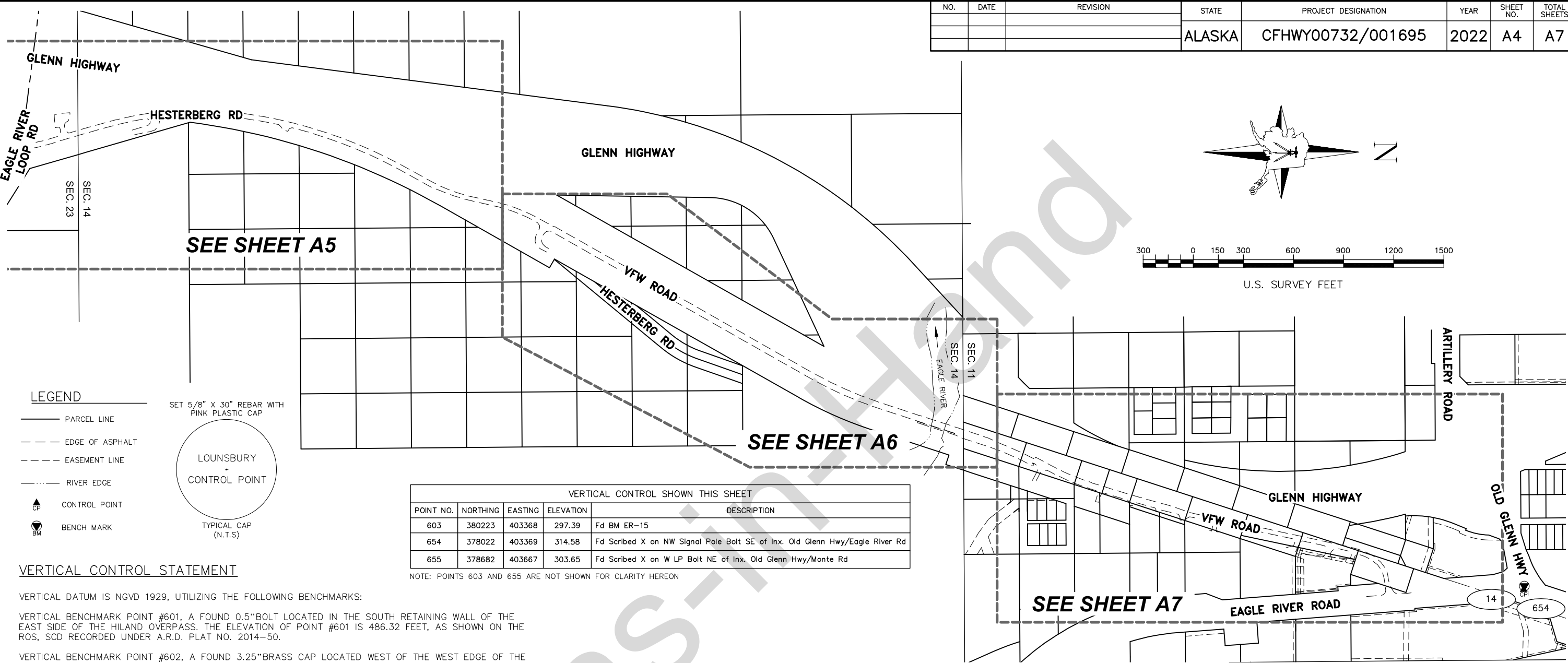
NO.		DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
				ALASKA	001695/CFHWY00732	2023	A3	A7
			RIGHT-OF-WAY					
			RECOVERED	SET THIS PROJECT				
			FEDERAL GOV'T SURVEY MONUMENT					
			GOV'T CONTROL STATION					
			PRIMARY MONUMENT (BRASS/AL CAP)					
			MISC SECONDARY CORNER					
			PRIMARY CENTERLINE MONUMENT					
			SECONDARY CENTERLINE MONUMENT					
			RANDOM CONTROL MONUMENT					
			PRIMARY GPS CONTROL POINT					
			HORIZONTAL CONTROL POINT					
			SECONDARY CONTROL POINT					
			VERTICAL BENCHMARK					
			TEMPORARY BENCHMARK					
			TOWNSHIP AND RANGE LINES					
			SECTION LINE					
			1/4 SECTION LINE					
			1/16 SECTION LINE					
			CORPORATE or CITY LIMITS					
			EXISTING RIGHT-OF-WAY					
			RIGHT-OF-WAY OR EASEMENT REQUIRED					
			PROJECT RIGHT-OF-WAY LINE					
			EXISTING RIGHT-OF-WAY EASEMENT					
			EXISTING PROPERTY LINE					
			CONTROLLED ACCESS LINE					
			EXISTING UTILITY EASEMENT					
			PROPOSED UTILITY EASEMENT					
			EXISTING CENTERLINE					
			RAILROAD CENTERLINE					
			TEMPORARY CONSTRUCTION EASEMENT					
			TEMPORARY CONSTRUCTION PERMIT					

TOPOGRAPHY		
	EXISTING	PROPOSED
LAKE OR POND, WETLANDS		
TREE (CONIFER/DECIDUOUS)		
TREELINE (EDGE OF VEGETATION)		
PLANTER		
BUILDING OR FOUNDATION		
CONTOUR, MAJOR OR MINOR		
DRAINAGE FLOW		
CREEK (CENTERLINE)		
RIVER (EDGE OF WATER)		



FILE 122-012_SCS.dwg DATE/TIME 06/06/2023 LAYOUT 1" = 300' DESIGNED --- CHECKED JMW/MLH DRAFTED KYF/HDR

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	CFHWY00732/001695	2022	A4	A7



LEGEND

- PARCEL LINE
 - EDGE OF ASPHALT
 - EASEMENT LINE
 - RIVER EDGE
 - CONTROL POINT
 - BENCH MARK
- SET 5/8" X 30" REBAR WITH PINK PLASTIC CAP
- LOUNSBURY CONTROL POINT
- TYPICAL CAP (N.T.S.)

VERTICAL CONTROL STATEMENT

VERTICAL DATUM IS NGVD 1929, UTILIZING THE FOLLOWING BENCHMARKS:

VERTICAL BENCHMARK POINT #601, A FOUND 0.5"BOLT LOCATED IN THE SOUTH RETAINING WALL OF THE EAST SIDE OF THE HILAND OVERPASS. THE ELEVATION OF POINT #601 IS 486.32 FEET, AS SHOWN ON THE ROS, SCD RECORDED UNDER A.R.D. PLAT NO. 2014-50.

VERTICAL BENCHMARK POINT #602, A FOUND 3.25"BRASS CAP LOCATED WEST OF THE WEST EDGE OF THE NORTH BOUND LANE OF THE GLENN HIGHWAY. THE ELEVATION OF POINT #602 IS 422.32 FEET, AS SHOWN ON THE ROS, SCD RECORDED UNDER A.R.D. PLAT NO. 2014-50.

VERTICAL BENCHMARK POINT #655, A SCRIBED X ON THE WEST LIGHT POLE BOLT LOCATED NORTHEAST OF THE OLD GLENN HIGHWAY AND MONTE ROAD INTERSECTION. THE ELEVATION OF POINT #655 IS 303.65 FEET, AS SHOWN ON THE ROS, SCD RECORDED UNDER A.R.D. PLAT NO. 2014-50.

VERTICAL CONTROL SHOWN THIS SHEET				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
603	380223	403368	297.39	Fd BM ER-15
654	378022	403369	314.58	Fd Scried X on NW Signal Pole Bolt SE of Inx. Old Glenn Hwy/Eagle River Rd
655	378682	403667	303.65	Fd Scried X on W LP Bolt NE of Inx. Old Glenn Hwy/Monte Rd

NOTE: POINTS 603 AND 655 ARE NOT SHOWN FOR CLARITY HEREON

HORIZONTAL CONTROL STATEMENT

COORDINATE SYSTEM:

THIS PROJECT IS LOCATED ENTIRELY WITHIN ANCHORAGE BOWL 2000 ADJUSTMENT, A NAD83 (92) U.S. FOOT LOCAL SURFACE GRID COORDINATE SYSTEM DEVELOPED BY THE ALASKA DEPARTMENT OF TRANSPORTATION.

BASIS OF COORDINATES:

THE BASIS OF COORDINATES IS NGS STATION O'MALLEY, LOCATED NEAR THE INTERSECTION OF THE NEW SEWARD HIGHWAY AND O'MALLEY ROAD. SAID STATION HAS ANCHORAGE BOWL 2000 COORDINATES OF 303939.2310 N, 353362.5446 E.

LOUNSBURY HELD THE RECORD VALUES FOR POINTS 3, 14, AND 554, FIXED AT THEIR PUBLISHED COORDINATES FROM THE RECORD OF SURVEY, SURVEY CONTROL DIAGRAM OF "AKSAS 54694: GLENN HIGHWAY: CAPACITY IMPROVEMENTS, HILAND TO ARTILLERY", RECORDED AS PLAT NO. 2014-50 IN THE A.R.D.

BASIS OF BEARINGS:

THE BASIS OF BEARINGS IS A LOCAL GRID BEARING BETWEEN NGS STATION O'MALLEY AND NGS STATION LOOP 2 USE RM 3 1964. NGS STATION LOOP 2 USE RM 3 1964 BEARS N 01° 43' 26.4"E AT A DISTANCE OF 49488.4476 U.S. FEET FROM NGS STATION O'MALLEY. NGS STATION LOOP 2 USE RM 3 1964 HAS ANCHORAGE BOWL 2000 COORDINATES OF 353405.2778 N, 354851.3982 E.

TRANSLATION PARAMETERS:

TO CONVERT THE LOCAL COORDINATES TO NAD83(92) STATE PLANE U.S. FOOT COORDINATES, TRANSLATE USING +2296868.6878 FEET N, +1312517.4904 FEET E, AND SCALE USING 0.9998910192.

PROJECT CONTROL SHOWN THIS SHEET				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
14	378018.7433	403388.3350	313.90	Fd Rbr/RPC[USKH]: Control Point 2013

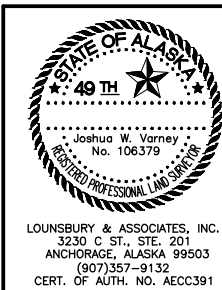
SURVEY NOTES

- ALL DIMENSIONS AND COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
- THE FIELD SURVEY WAS CONDUCTED BY LOUNSBURY AND ASSOCIATES, INC. FROM SEPTEMBER - OCTOBER 2022.
- PROJECT HORIZONTAL CONTROL WAS SURVEYED USING NETWORKED STATIC GPS TECHNIQUES. GPS MEASUREMENTS WERE PERFORMED USING TRIMBLE R12, R10 AND R8 RECEIVERS. IT WAS PROCESSED USING TRIMBLE BUSINESS CENTER V.5.70 SOFTWARE.
- THE PURPOSE OF THIS SURVEY IS TO PROVIDE A DESIGN SURVEY, RECOVER CONTROLLING R.O.W. CORNERS AND LOCATE ALL MONUMENTS THAT COULD BE DISTURBED BY CONSTRUCTION, AND PREPARE A SURVEY CONTROL DRAWING (SCD) IN SUPPORT OF ENGINEERING DESIGN SERVICES FOR "AMATS: VFW ROAD PAVEMENT PRESERVATION PROJECT - EAGLE RIVER LOOP TO EAGLE RIVER ROAD.
- BACKGROUND SUBDIVISION AND PARCEL INFORMATION IS FOR ORIENTATION PURPOSES ONLY.
- VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO USE. ON MULTI YEAR PROJECTS, VERIFY ALL CONTROL ON A SEASONAL BASIS.

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I AM PROPERLY REGISTERED AND LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF ALASKA, AND THAT THIS DRAWING REPRESENTS A SURVEY MADE BY ME OR UNDER MY SUPERVISION, AND THAT THE MONUMENTS SHOWN HEREON ACTUALLY EXIST AS DESCRIBED, AND THAT ALL DIMENSIONS AND OTHER DETAILS ARE CORRECT TO THE EXTENT SHOWN HEREON.

Joshua W. Varney LS-106379 Date



LOUNSBURY & ASSOCIATES, INC.
3230 C ST., STE. 201
ANCHORAGE, ALASKA 99503
(907)357-9132
CERT. OF AUTH. NO. AECC391

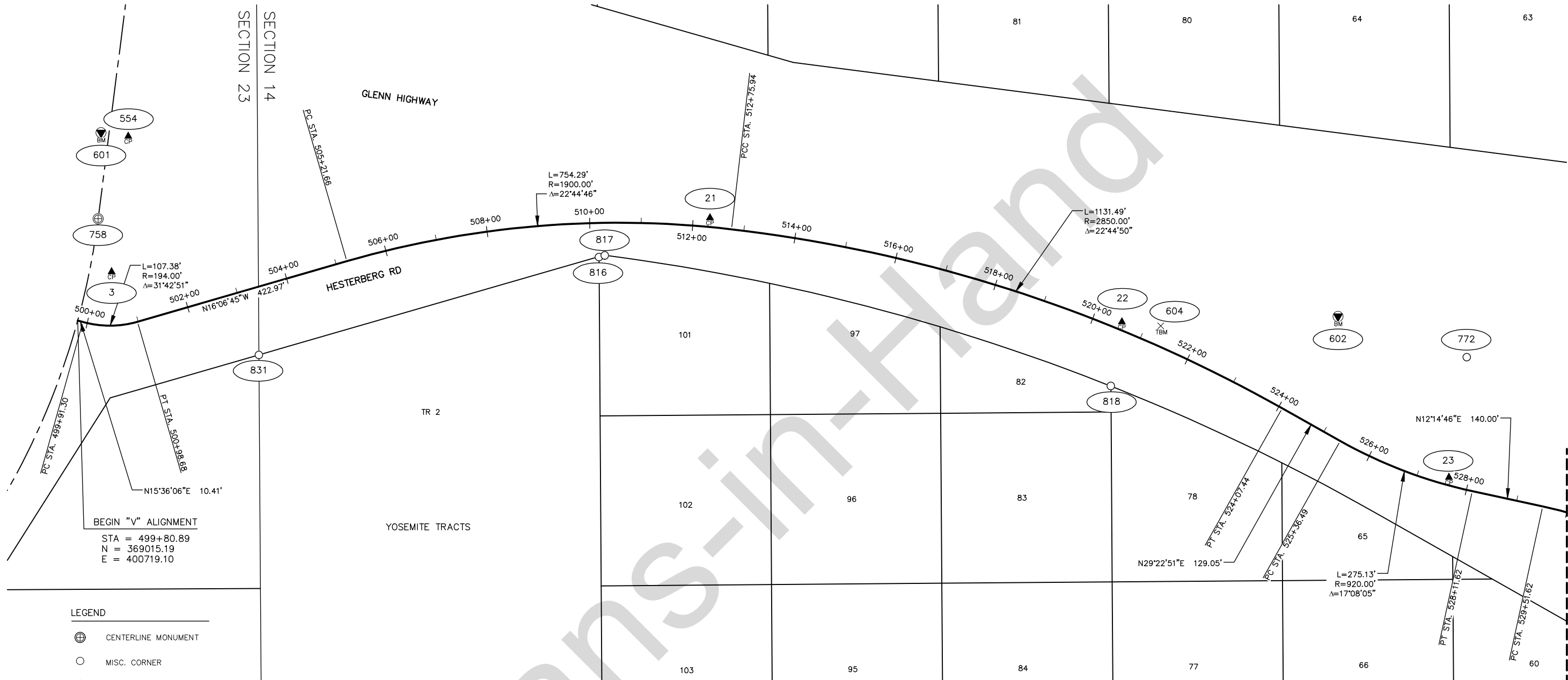
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

AMATS: VFW ROAD: EAGLE
RIVER LOOP TO EAGLE
RIVER ROAD PAVEMENT
PRESERVATION

SURVEY CONTROL SHEET
WITHIN SEC 11, SEC 14, SEC 23, T.14.N R2.W., S.M., ALASKA

FILE 22-012_SCS.dwg DATE/TIME 06/06/2023 1" = 100' LAYOUT DESIGNED --- CHECKED JMW/MLH DRAFTED KYF/HDR

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	CFHWY00732/001695	2022	A5	A7

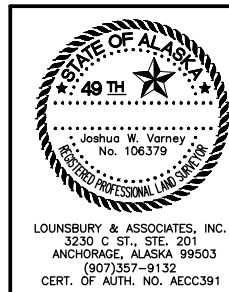
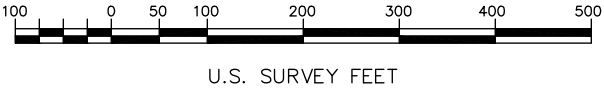
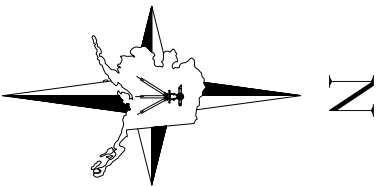


- LEGEND
- CENTERLINE MONUMENT
 - MISC. CORNER
 - CONTROL POINT
 - BENCH MARK
 - TEMPORARY BENCH MARK
 - POINT NUMBER IDENTIFIER
 - ROW LINE
 - PROPERTY LINE
 - PROJECT CENTER LINE
 - SECTION LINE

RECOVERED MONUMENTS SHOWN THIS SHEET					
POINT NO.	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
758	369054.83	400521.52	Fd BC/Bx[DOT]: Eagle River Loop Centerline		
772	371711.52	400790.24	Fd Conc Post: ROW Glenn Hwy	527+21.75	248.73 LT
816	370026.97	400596.00	Fd Rbr: ROW Glenn Hwy	510+16.68	66.20 RT
817	370038.26	400592.76	Fd Rbr: ROW Glenn Hwy	510+28.42	63.16 RT
818	371020.54	400846.10	Fd AC[22975]: E ROW Line Glenn Hwy	520+83.13	107.65 RT
831	369366.81	400785.86	Fd Rbr/PC[11758]: SW Tr2 Yosemite	503+07.12	127.29 RT

HORIZONTAL CONTROL SHOWN THIS SHEET						
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
3	369080.92	400624.45	486.16	Fd Rbr/RPC[USKH]: Control Point 2013	500+51.77	104.53 LT
21	370242.46	400519.69	436.64	Set Rbr/RPC[Lounsbury]: Control Point	512+32.13	17.95 LT
22	371042.07	400721.70	430.65	Set Rbr/RPC[Lounsbury]: Control Point	520+54.79	15.49 LT
23	371676.86	401023.52	421.96	Set Rbr/RPC[Lounsbury]: Control Point	527+60.89	15.24 LT
554	369113.28	400361.56	486.94	GPS/Fd BC[AKDOT]: Station OPHIGL BM	501+81.30	350.72 LT

VERTICAL CONTROL SHOWN THIS SHEET						
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
601	369060	400355	486.32	Fd Bolt[MOA]: MOA-E5 1/2in Bolt in S Ret Wall of Hiland Overpass on E side	501+32	372 LT
602	371462	400711	422.32	Fd BC[USC&GS]: F 83 1964 in a 4in Orangeburg Pipe W of W Edge NB Lane Glenn Hwy	524+14	208 LT
604	371117	400730	432.88	Set RR Spike in 8" Cottonwood W of Hesterberg Rd	521+27	38 LT



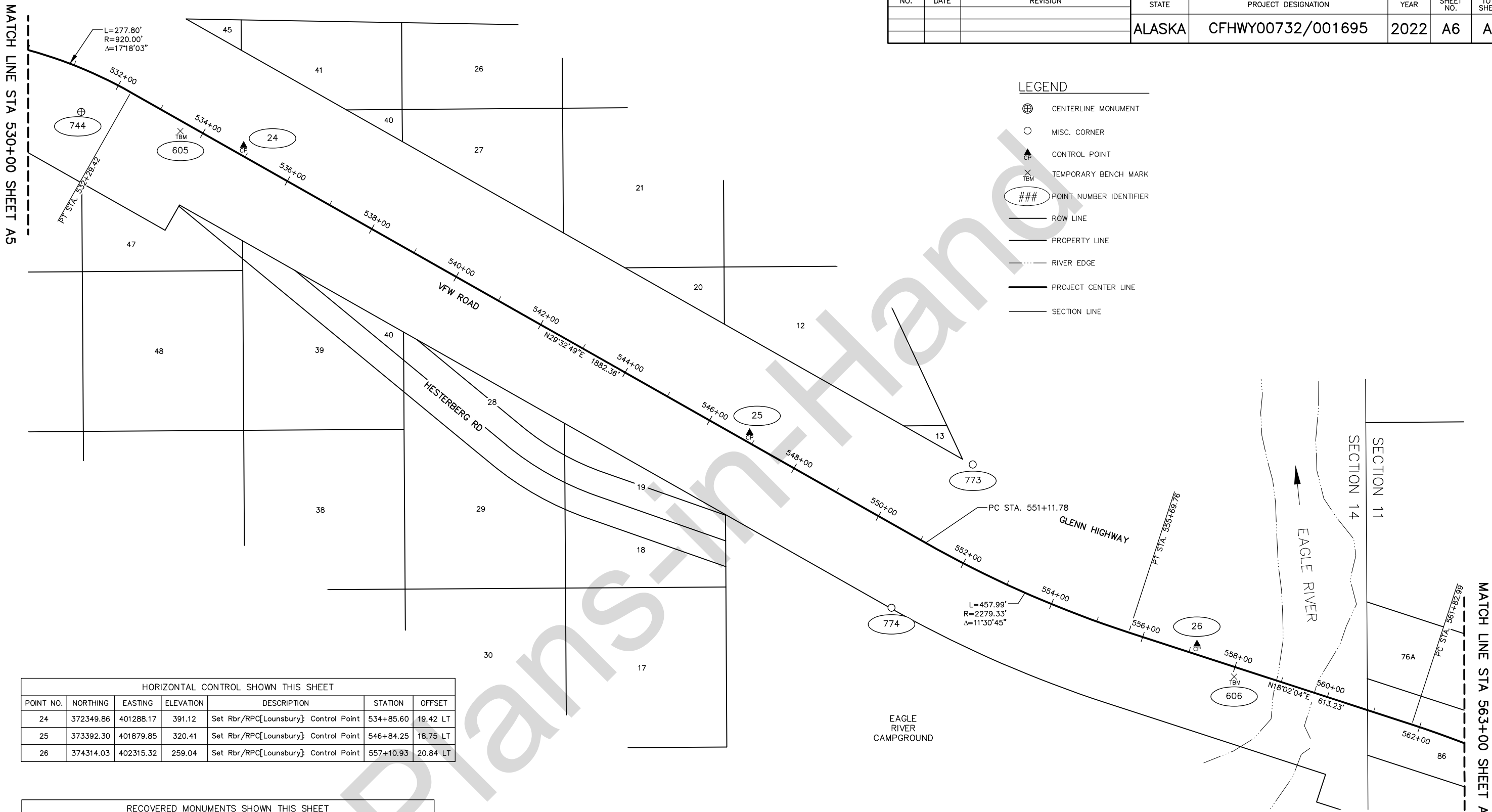
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

AMATS: VFW ROAD: EAGLE
RIVER LOOP TO EAGLE
RIVER ROAD PAVEMENT
PRESERVATION

SURVEY CONTROL SHEET
WITHIN SEC 11, SEC 14, SEC 23, T.14.N R2.W., S.M., ALASKA

FILE: 22-012_SCS.dwg DATE/TIME: 06/06/2023 1" = 100' LAYOUT DESIGNED CHECKED JMW/MLH DRAFTED KYF/HDR

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	CFHWY00732/001695	2022	A6	A7

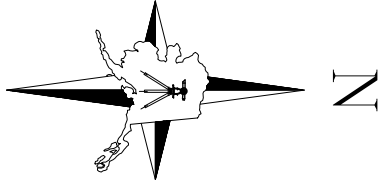


- LEGEND
- CENTERLINE MONUMENT
 - MISC. CORNER
 - CONTROL POINT
 - TEMPORARY BENCH MARK
 - POINT NUMBER IDENTIFIER
 - ROW LINE
 - PROPERTY LINE
 - RIVER EDGE
 - PROJECT CENTER LINE
 - SECTION LINE

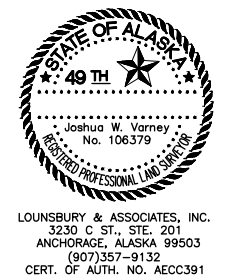
HORIZONTAL CONTROL SHOWN THIS SHEET						
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
24	372349.86	401288.17	391.12	Set Rbr/RPC[Lounsbury]; Control Point	534+85.60	19.42 LT
25	373392.30	401879.85	320.41	Set Rbr/RPC[Lounsbury]; Control Point	546+84.25	18.75 LT
26	374314.03	402315.32	259.04	Set Rbr/RPC[Lounsbury]; Control Point	557+10.93	20.84 LT

RECOVERED MONUMENTS SHOWN THIS SHEET					
POINT NO.	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
744	372015.22	401218.88	Fd AC[10352-S]; C 1/4 S14 *T14N R2W SM	531+53.41	82.46 RT
773	373852.05	401945.44	Fd Conc Post: ROW Glenn Hwy	551+16.98	188.41 LT
774	373684.64	402240.52	Fd Conc Post: ROW Glenn Hwy	551+16.14	150.85 RT

VERTICAL CONTROL SHOWN THIS SHEET						
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
605	372220	401259	399.81	Set Scribed X on SE Guardrail End E of VFW Rd	533+58	19 RT
606	374390	402383	257.67	Set Scribed X on W Bolt on S End of Eagle River Bridge E of VFW Rd	558+04	19 RT



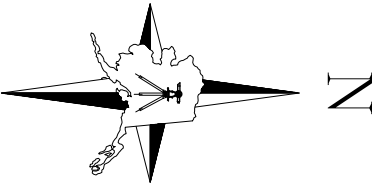
U.S. SURVEY FEET



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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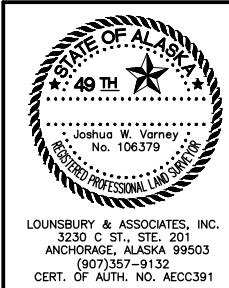
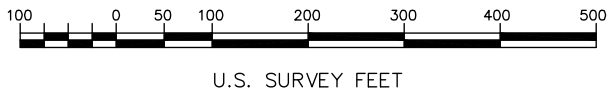
AMATS: VFW ROAD: EAGLE
RIVER LOOP TO EAGLE
RIVER ROAD PAVEMENT
PRESERVATION

SURVEY CONTROL SHEET
WITHIN SEC 11, SEC 14, SEC 23, T.14N R.2W., S.M., ALASKA



HORIZONTAL CONTROL SHOWN THIS SHEET						
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
13	377222.33	403470.42	323.71	Fd Rbr/RPC[USKH]: Control Point 2013		
27	375453.20	402799.92	256.16	Set Rbr/RPC[Lounsbury]: Control Point	569+48.55	17.06 RT
28	376530.20	403029.92	310.62	Set Rbr/RPC[Lounsbury]: Control Point	580+49.66	19.41 LT
29	377196.61	403215.64	318.80	Set Rbr/RPC[Lounsbury]: Control Point	587+22.72	45.42 LT

LEGEND	
	CENTERLINE MONUMENT
	PRIMARY MONUMENT
	MISC. CORNER
	CONTROL POINT
	TEMPORARY BENCH MARK
	POINT NUMBER IDENTIFIER
	ROW LINE
	PROPERTY LINE
	EASEMENT LINE
	PROJECT CENTER LINE
	SECTION LINE



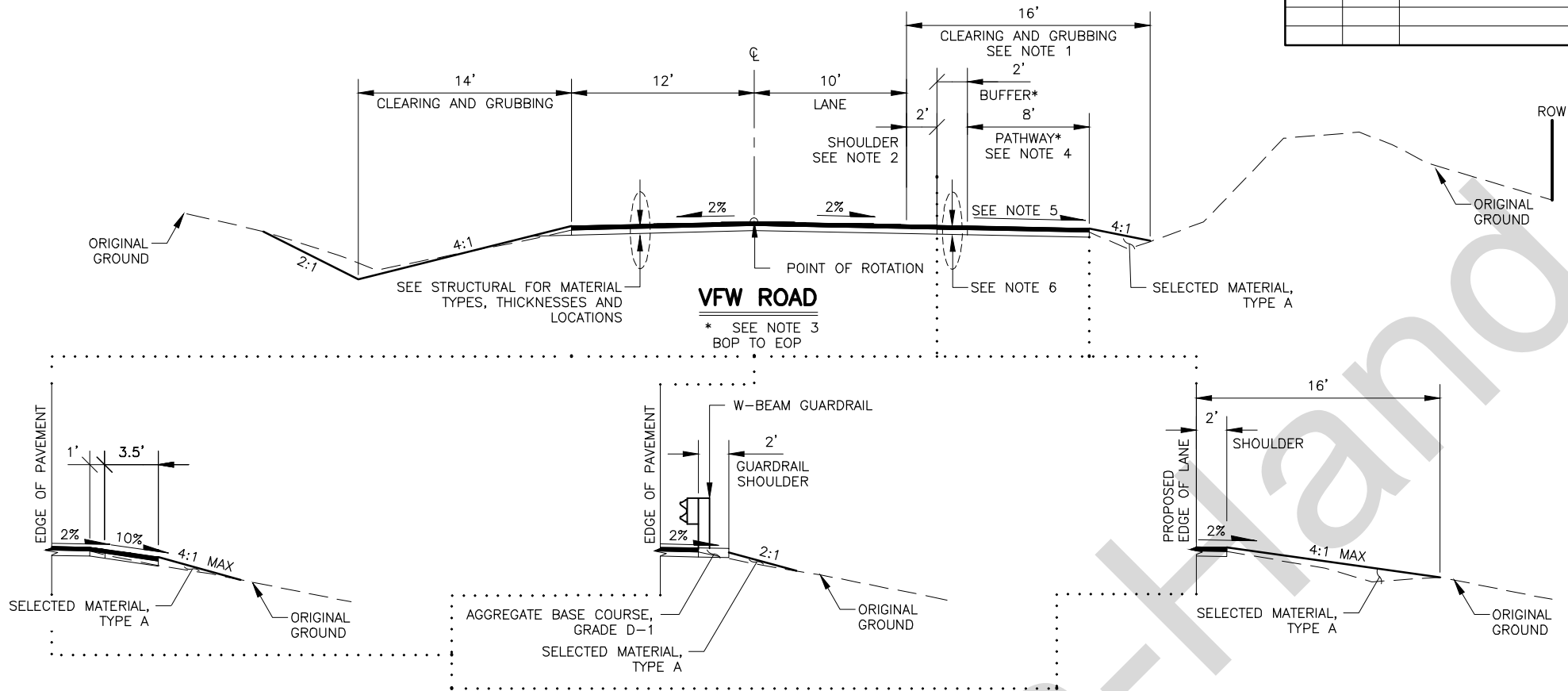
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

AMATS: VFW ROAD: EAGLE
RIVER LOOP TO EAGLE
RIVER ROAD PAVEMENT
PRESERVATION

SURVEY CONTROL SHEET

WITHIN SEC 11, SEC 14, SEC 23, T.14-N R.2-W., S.M., ALASKA

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001695/CFHWY00732	2023	B1	B1



TERMINAL FLARE WIDENING

SEE NOTE 7 AND NOTE 9
STA. 501+24.78 (RIGHT)
STA. 507+52.24 (RIGHT)
STA. 550+18.71 (RIGHT)
STA. 550+35.08 (LEFT)
STA. 562+44.29 (LEFT)
STA. 562+83.17 (RIGHT)

* SHOWN FOR RIGHT SIDE. MIRROR FOR LEFT SIDE.

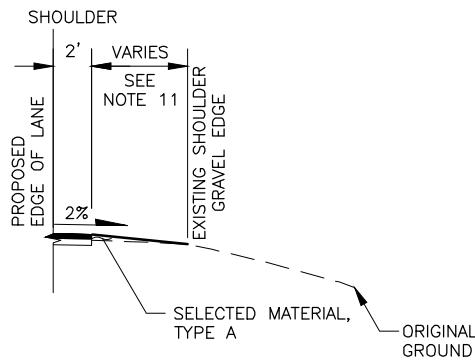
GUARDRAIL SHOULDER

SEE NOTE 8
STA. 501+74.77 TO STA. 507+01.74 (RIGHT)
STA. 550+68.70 TO STA. 557+89.87 (RIGHT)
STA. 550+86.01 TO STA. 557+89.87 (LEFT)
STA. 560+44.81 TO STA. 561+94.72 (LEFT)
STA. 560+44.81 TO STA. 562+32.75 (RIGHT)
STA. 570+17.31 TO STA. 571+29.71 (RIGHT)

* SHOWN FOR RIGHT SIDE. MIRROR FOR LEFT SIDE.

FORESLOPE TIE-IN EXCEPTION

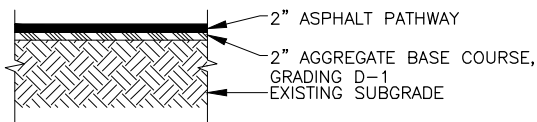
STA. 527+15.00 TO STA. 527+70.00 (RIGHT)
STA. 565+51.00 TO 569+65.00 (RIGHT)
STA. 571+88.00 TO 574+70.00 (RIGHT) (SEE NOTE 10)



SHOULDER EXCEPTION

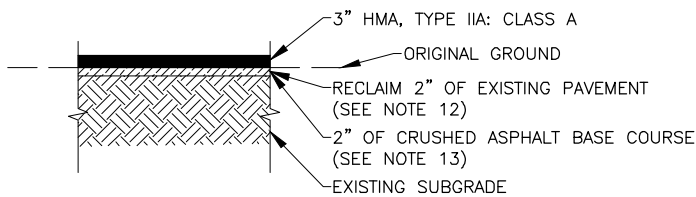
STA. 527+70.00 TO STA. 533+40.00 (RIGHT)
STA. 533+40.00 TO STA. 549+77.00 (LEFT)
STA. 562+95.00 TO STA. 565+40.00 (LEFT)

* SHOWN FOR RIGHT SIDE. MIRROR FOR LEFT SIDE



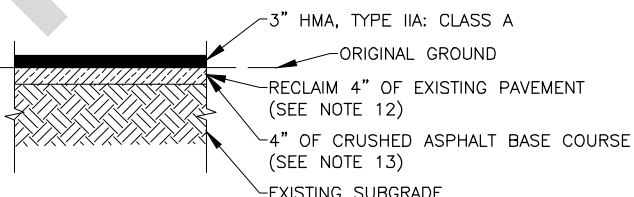
PATHWAY STRUCTURAL SECTION

STA. 526+45.00 TO STA. 527+16.00 (RIGHT)
STA. 531+96.00 TO STA. 531+56.00 (RIGHT)
STA. 533+19.00 TO STA. 533+95.00 (RIGHT)
STA. 560+44.81 TO STA. 565+51.00 (RIGHT)
STA. 574+02.00 TO STA. 575+65.77 (LEFT)
STA. 587+56.03 TO STA. 588+53.86 (LEFT)



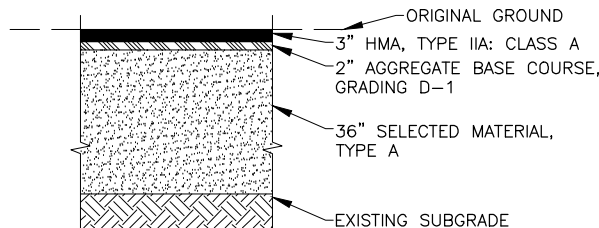
PAVEMENT STRUCTURAL SECTION NO. 1

BOP TO STA. 524+00.00



PAVEMENT STRUCTURAL SECTION NO. 2

STA. 524+00.00 TO STA. 557+89.87
STA. 560+44.81 TO STA. 575+00.00



PAVEMENT STRUCTURAL SECTION NO. 3

STA. 575+00.00 TO EOP



PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES INC.
3230 C ST, SUITE 201, ANCHORAGE AK
99503 (907) 272-5451
CERTIFICATE OF AUTHORIZATION
NUM. AEGC391

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION**

TYPICAL SECTIONS

NOTE:

- SEE PLAN VIEW DETAIL ON SHEET F4 FOR EXTENDED CLEARING LIMITS FROM STA. 585+51.98 TO EOP
- FROM STA. 533+40.00 TO STA. 557+89.87 THE SHOULDER WIDTH IS 5 FEET.
- BUFFER AND PATHWAY EXCEPTION FROM BOP TO STA. 526+45.00.
- PATHWAY WIDTH TRANSITIONS FROM 11.5 FT TO 15.4 FT FROM STATION 525+70.00 TO 526+45.00.
- PATHWAY SLOPE FROM BOP TO STA. 524+00.00 IS -1.50% AND TRANSITIONS FROM -1.50% TO -1.90% FROM STA. 524+00.00 TO STA. 524+44.00.
- BUFFER AND PATHWAY WILL USE SAME STRUCTURE SECTION AS THE ROADWAY.
- MATCH EDGE OF TERMINAL FLARE WIDENING AND GUARDRAIL SHOULDER WITH EXISTING PATHWAY AT STA. 550+81.81 TO STA. 557+89.87.
- MATCH EDGE OF TERMINAL FLARE AND GUARDRAIL SHOULDER WITH PROPOSED PATHWAY AT STA. 560+44.86 TO STA. 562+83.17.
- USE ALTERNATIVE GUARDRAIL TERMINAL WIDENING DETAIL G-20.12, WITH X=1'.
- FROM STA. 574+20.00 TO 574+70 FORESLOPE TIE-IN IS 8 FEET FROM THE PROPOSED EDGE OF LANE.
- GRADE FROM PROPOSED SHOULDER EDGE TO THE EXISTING GRAVEL SHOULDER. DO NOT DISTURB LIGHT POLE AT STA. 565+37.02
- RECLAIM THE EXISTING PAVEMENT STRUCTURE TO PRODUCE CRUSHED ASPHALT BASE COURSE. DO NOT EXCEED RECALMING DEPTH.
- SPREAD CRUSHED ASPHALT BASE COURSE TO LEVEL EXISTING SURFACE IRREGULARITIES, ESTABLISH FINISHED GRADE, OR ESTABLISH SUPERELEVATION. USE AGGREGATE BASE COURSE, D-1 AFTER EXCESS USABLE CRUSHED ASPHALT BASE COURSE HAS BEEN DEPLETED, OR AS DIRECTED BY ENGINEER.
- SEE N SHEETS FOR TYPICAL SECTION ON BRIDGE #0535 FROM STA. 557+89.87 TO STA. 560+44.81.

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
201.0003.0000	CLEARING AND GRUBBING	ACRE	4
202.0002.0000	REMOVAL OF PAVEMENT	SY	5,931
202.0004.0000	REMOVAL OF CULVERT PIPE	LF	702
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	10,020
203.0006.000A	BORROW, TYPE A	TON	14,840
203.2038.0000	DITCH LINEAR GRADING	STA	15
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	1,520
308.0001.0000	CRUSHED ASPHALT BASE COURSE	SY	10,320
401.0001.002A	HMA, TYPE II; CLASS A	TON	5,240
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40E	TON	278
401.2014.0000	JOINT ADHESIVE	LF	11,631
401.2022.0000	COMBINED PRICE ADJUSTMENT	CS	ALL REQ'D
406.0003.0000	RUMBLE STRIPS	LF	2,468
501.2001.0001	SPALL REPAIR	CS	ALL REQ'D
507.0004.0000	CONCRETE BRIDGE BARRIER	LF	244
507.2000.0000	STEEL BRIDGE RAILING REPLACEMENT, 2-TUBE	LF	244
508.0001.0000	WATERPROOFING MEMBRANE, SPRAY-APPLIED	LS	10,490
510.2001.0000	BRIDGE DECK REPAIR	CS	525
603.0021.0018	CORRUGATED POLYETHYLENE PIPE 18 INCH	LF	404
603.0021.0024	CORRUGATED POLYETHYLENE PIPE 24 INCH	LF	310
603.0022.0018	END SECTION FOR CORRUGATED POLYETHYLENE PIPE 18 INCH	EACH	16
603.0022.0024	END SECTION FOR CORRUGATED POLYETHYLENE PIPE 24 INCH	EACH	8
604.0004.0000	ADJUST EXISTING MANHOLE	EACH	1
606.0001.0000	W-BEAM GUARDRAIL	LF	2,300
606.0006.0000	REMOVING AND DISPOSING OF GUARDRAIL	LF	4,044
606.0009.0000	SHORT RADIUS GUARDRAIL	EACH	2
606.0013.0000	PARALLEL GUARDRAIL TERMINAL	EACH	6
606.0016.0000	TRANSITION RAIL	EACH	4
608.2002.0000	ASPHALT PATHWAY	TON	140
608.2017.0000	DETECTABLE WARNING TILE	EACH	5
611.0001.0001	RIPRAP, CLASS 1	CY	610

TABLE OF ESTIMATING FACTORS		
ITEM NO.	PAY ITEM	ESTIMATING FACTOR
203.0006.000A	BORROW, TYPE A	144 LB/CF
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	144 LB/CF
401.0001.002A	HMA, TYPE II: CLASS A	151 LB/CF
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40E	5.3% TOTAL WEIGH
608.2002.0000	ASPHALT PATHWAY	151 LB/CF

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
615.0001.0000	STANDARD SIGN	SF	282
615.0007.0000	SALVAGE AND DISPOSE SIGN	EACH	52
618.0001.0000	SEEDING	ACRE	1
620.0001.0000	TOPSOIL	SY	4,840
630.0001.0003	GEOTEXTILE, SEPARATION, CLASS 3	SY	480
639.2000.0000	APPROACH	EACH	16
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQ'D
641.0002.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	CS	ALL REQ'D
641.0006.0000	WITHHOLDING	CS	ALL REQ'D
641.0007.0000	SWPPP MANAGER	LS	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	LS	ALL REQ'D
642.0003.0000	THREE PERSON SURVEY PARTY	HR	100
642.2008.0000	PASSING SIGHT DISTANCE MEASUREMENT	STA	11
643.0002.0000	TRAFFIC MAINTENANCE	LS	ALL REQ'D
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LS	ALL REQ'D
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CS	ALL REQ'D
643.0025.0000	TRAFFIC CONTROL	CS	ALL REQ'D
643.0032.0000	FLAGGING	CS	ALL REQ'D
644.0001.0000	FIELD OFFICE	LS	ALL REQ'D
644.2004.0000	ENGINEERING COMMUNICATIONS	CS	ALL REQ'D
645.0001.0000	TRAINING PROGRAM, "____" TRAINEES/APPRENTICES	LH	500
646.0001.0000	CPM SCHEDULING	LS	ALL REQ'D
646.2000.0000	SCHEDULE PRICE ADJUSTMENT	CS	ALL REQ'D
647.2002.0000	BACKHOE, 4WD, 1 CY BUCKET, 75-HP MINIMUM, 15 FT DEPTH	CS	ALL REQ'D
670.2003.0000	MMA PAVEMENT MARKINGS, LONGITUDINAL SURFACE APPLIED	LF	46,665
670.2005.0000	MMA PAVEMENT MARKINGS, TRANSVERSE AND GORE SURFACE APPLIED	LF	3,521
682.2000.0000	VAC-TRUCK POTHOLE	CS	ALL REQ'D

PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES INC.
3230 C ST, SUITE 201, ANCHORAGE AK
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CERTIFICATE OF AUTHORIZATION
NUM. AEGC391

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION

ESTIMATE OF QUANTITIES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001695/CFHWY00732	2023	D1	D2

202.0004.0000 – REMOVAL OF CULVERT PIPE					
SHEET	STATION	OFFSET	QUANTITY (LF)	REMARKS	
F1	502+61	LT	60.3	DRIVEWAY	
F1	508+17	RT	80.5	DRIVEWAY	
F1	508+73	CL	60.3	CROSS	
F2	529+00	CL	63.6	CROSS	
F3	564+95	CL	102.0	CROSS	
F3	571+72	RT	51.5	DRIVEWAY	
F3	573+37	RT	46.0	DRIVEWAY	
F3	576+92	RT	33.7	DRIVEWAY	
F4	581+96	RT	34.0	DRIVEWAY	
F4	583+89	RT	58.2	DRIVEWAY	
F4	585+30	RT	49.3	DRIVEWAY	
F4	588+93	CL	61.9	CROSS	
TOTAL:			701.31		
PAY ITEM QUANTITY:			702		

202.0002.0000 – REMOVAL OF PAVEMENT					
SHEET	FROM STATION	TO STATION	OFFSET	QUANTITY (SY)	REMARKS
F2	526+44	527+16	RT	84.2	
F2	531+96	532+56	RT	96.9	
F2	533+19	533+95	RT	107.1	
F3	560+45	565+51	RT	686.7	
F3–F4	574+02	575+66	LT	188.3	
F3–F4	575+00	EOP	CL	4,637.5	
F4	587+56	588+54	LT	129.9	
TOTAL:				5,930.6	
PAY ITEM QUANTITY:				5,931	

203.2038.0000 – DITCH LINEAR GRADING						
SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	QUANTITY (STA)	REMARKS
F3	574+40	RT	589+12	RT	14.7	
TOTAL:					14.7	
PAY ITEM QUANTITY:					15	

406.0003.0000 – RUMBLE STRIPS					
SHEET	FROM STATION	TO STATION	OFFSET	QUANTITY (LF)	REMARKS
F1	500+07	500+20	RT	34.45	
F1	500+23	507+72	RT	752.90	
F1	508+69	515+58	RT	685.97	
F1	516+48	526+45	RT	994.23	
TOTAL:				2,467.55	
PAY ITEM QUANTITY:				2,468	

603.0021.0018 – CORRUGATED POLYETHYLENE PIPE 18 INCH						
SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	QUANTITY (LF)	REMARKS
F1	502+29	LT	502+97	LT	68	
F1	508+17	RT	508+57	RT	80	
F3	571+46	RT	571+97	RT	52	
F3	573+14	RT	573+60	RT	46	
F4	576+78	RT	577+12	RT	34	
F4	581+78	RT	582+12	RT	34	
F4	583+68	RT	584+20	RT	52	
F4	585+22	RT	585+61	RT	38	
PAY ITEM QUANTITY:					404	

603.0021.0024 – CORRUGATED POLYETHYLENE PIPE 24 INCH						
SHEET	FROM STATION	OFFSET	TO STATION	OFFEST	QUANTITY (LF)	REMARKS
F1	508+75	LT	508+72	RT	66	
F2	529+00	LT	529+00	RT	72	
F3	564+90	LT	564+99	RT	102	
F4	588+89	LT	588+80	RT	70	
PAY ITEM QUANTITY:					310	

603.0022.0018 – END SECTION FOR CORRUGATED POLYETHYLENE PIPE 18 INCH				
SHEET	STATION	OFFSET	QUANTITY (EACH)	REMARKS
F1	502+29	LT	1	
F1	502+97	LT	1	
F1	508+17	RT	1	
F1	508+57	RT	1	
F3	571+46	RT	1	
F3	571+97	RT	1	
F3	573+14	RT	1	
F3	573+60	RT	1	
F4	576+78	RT	1	
F4	577+12	RT	1	
F4	581+78	RT	1	
F4	582+12	RT	1	
F4	583+60	RT	1	
F4	584+20	RT	1	
F4	585+22	RT	1	
F4	585+61	RT	1	
PAY ITEM QUANTITY:			16	

603.0022.0024 – END SECTION FOR CORRUGATED POLYETHYLENE PIPE 24 INCH				
SHEET	STATION	OFFSET	QUANTITY (EACH)	REMARKS
F1	508+72	RT	1	
F1	508+72	LT	1	
F2	529+00	RT	1	
F2	529+00	LT	1	
F3	564+89	LT	1	
F3	564+99	RT	1	
F4	588+89	RT	1	
F4	588+80	LT	1	
PAY ITEM QUANTITY:			8	

604.0004.0000 – ADJUST EXISTING MANHOLE				
SHEET	STATION	OFFSET	QUANTITY (EACH)	REMARKS
F4	580+84	RT	1	
PAY ITEM QUANTITY:			1	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION

SUMMARY TABLES

DRAWING LOCATION	DATE	TIME	DESIGNED BY	JK
D:\PWSEFILE\DM04943\PL-22-012 D SHEETS.DWG	7/7/2023	2:50 PM	CHECKED BY	DG
			DRAFTED BY	DJ

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001695/CFHWY00732	2023	D2	D2

606 ITEMS – GUARDRAIL SUMMARY											
SHEET	STATION TO STATION			606.0001.0000	606.0006.0000	606.0009.0000			606.0013.0000	GUARDRAIL CASE **	REMARKS
				W-BEAM GUARDRAIL (LF)	REMOVING AND DISPOSING OF GUARDRAIL (LF)	SHORT RADIUS GUARDRAIL			PARALLEL GUARDRAIL TERMINAL (EACH) *		
	FROM	TO	OFFSET			QUANTITY (EACH)	RADIUS	ANGLE			
F1	501+24.81	507+52.24	RT	525	539.69				2	3	
F2-F3	533+55.72	557+89.87	RT	700	2,437.79				1	3	
F2-F3	550+35.08	557+89.87	LT	675	750.99				1	3	
F3	560+44.81	562+83.17	RT	162.5	118.36				1	3	
F3	560+44.81	562+44.29	LT	125	197.07				1	3	
F3	569+88.90		RT	112.5		1	20	88		3	
		571+70.44				1	24	116			
TOTAL:				2,300.00	4,043.90	2			6		
PAY ITEM QUANTITY:				2,300	4,044	2			6		

TRANSITION RAIL ASSUMED TO BE 25 FEET IN LENGTH.
* PARALLEL GUARDRAIL TERMINALS ASSUMED TO BE 50 FEET IN LENGTH.
** SEE ASP G-10.21

608.2017.0000 – DETECTABLE WARNING TILE					
SHEET	FROM STATION	OFFSET SIDE	WIDTH (LF)	QUANTITY (EACH)	REMARKS
F1	500+21	16.98' RT	5'	1	
F2	532+48	29.03' RT	12'	1	TILE IS ROUNDED UP
F3	533+30	27.01' RT	12'	1	TILE IS ROUNDED UP
F3	565+45	14.32' RT	10'	1	
F3	565+45	13.01' LT	10'	1	TILE IS ROUNDED UP
PAY ITEM QUANTITY:				5	

611.0001.0001 – RIPRAP, CLASS 1					
SHEET	FROM STATION	TO STATION	OFFSET SIDE	QUANTITY (CY)	REMARKS
F1	569+90	571+64	RT	318.3	
TOTAL:				318.3	
PAY ITEM QUANTITY:				400	

630.0001.0003 – GEOTEXTILE, SEPARATION, CLASS 3						
SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	QUANTITY (SY)	REMARKS
F3	569+90	RT	571+64	RT	477.5	
TOTAL:					477.5	
PAY ITEM QUANTITY:					480	

639.2000.0000 – APPROACH								
SHEET	STATION	OFFSET	WIDTH	LEFT RADIUS	RIGHT RADIUS	TYPE	QUANTITY (EACH)	REMARKS
F1	500+13	CL	153.88	38	40	PAVED	1	
F1	502+61	LT	30.26	24.87	35.34	PAVED	1	
F1	507+69	RT	40.65	20.32	19.81	PAVED	1	
F1	516+12	RT	32.68	15.82	44.21	GRAVEL	1	
F2	532+82	LT	37.82	49.6	37.88	PAVED	1	
F2	549+66	RT	21.02	10.07	5.01	GRAVEL	1	
F3	565+99	RT	20.95	40.54	36.32	PAVED	1	
F3	569+80	RT	18.4	25.47	28.62	PAVED	1	
F3	571+78	RT	19.75	23.99	21.19	GRAVEL	1	
F3	573+42	RT	22.51	20.76	18.27	GRAVEL	1	
F3	574+94	RT	27.08	42.11	28.51	GRAVEL	1	
F4	576+93	RT	24.9	28.89	14.46	PAVED	1	
F4	581+94	RT	26.38	22.67	18.63	PAVED	1	
F4	583+91	RT	30.47	41.07	31.32	PAVED	1	
F4	585+41	RT	22.14	24.07	23.14	PAVED	1	
F4	589+13	RT	164.18	60	30	PAVED	1	
PAY ITEM QUANTITY:							16	



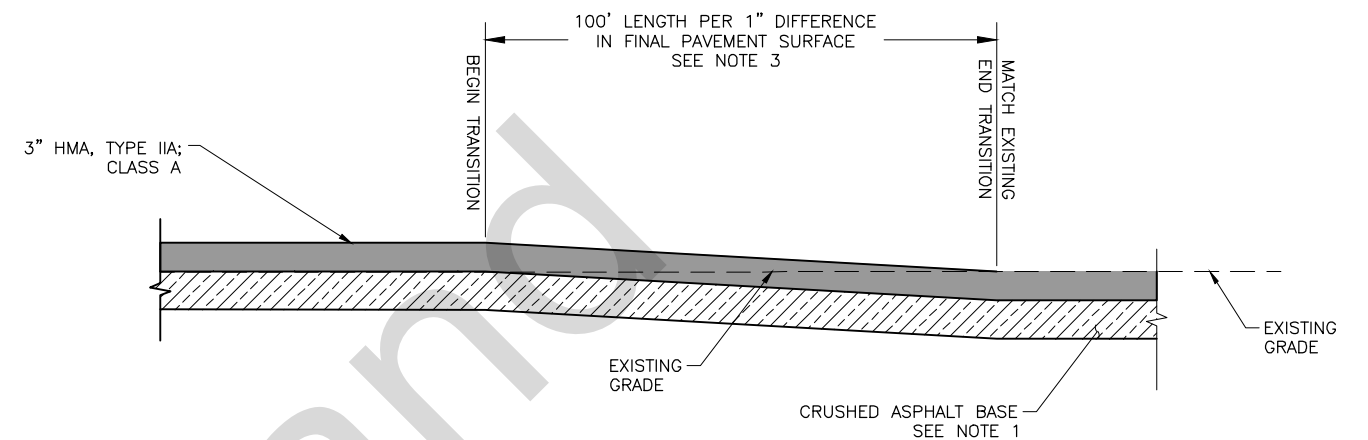
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION

SUMMARY TABLES

DATE	TIME	SCALE	DESIGNED BY	JK
7/7/2023	2:50 PM		CHECKED BY	DG
			DRAFTED BY	DJ

DRAWING	LOCATION
D:\PWS\FILE\DWG04943\PL-22-012 E SHEETS.DWG	



BRIDGE PAVEMENT SURFACE

END BRIDGE

BEGIN TRANSITION

END TRANSITION

100' LENGTH PER 1" DIFFERENCE IN FINAL PAVEMENT SURFACE SEE NOTE 2

3" HMA, TYPE IIA; CLASS A

4" CRUSHED ASPHALT BASE

EXISTING GRADE

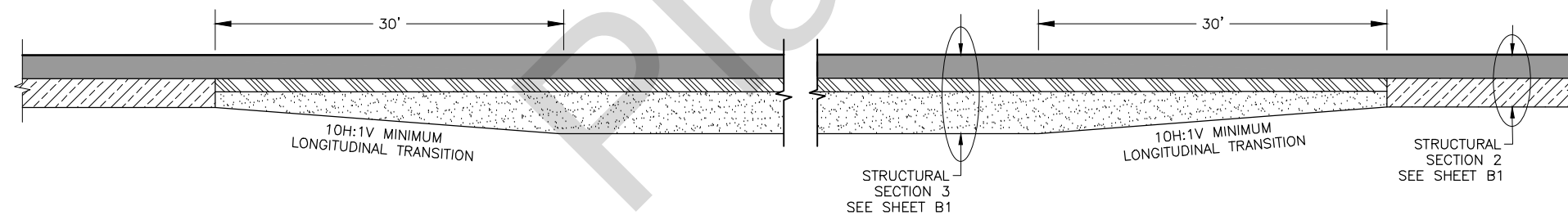
EXISTING WATERPROOFING MEMBRANE (DO NOT DISTURB)

EXISTING BRIDGE DECK

BRIDGE PAVEMENT TRANSITION DETAIL

1. SEE B SHEETS PAVEMENT STRUCTURAL SECTION NO.1 AND PAVEMENT STRUCTURES SECTION NO.2 FOR CRUSHED ASPHALT BASE DEPTHS.
2. STA. 501+00.00 TO STA. 504+00.00 TRANSITION FROM EXISTING SURFACE TO A 3 INCH LIFT.
3. STA. 575+00.00 TO 578+00.00 TRANSITION FROM A 3 INCH LIFT TO THE EXISTING SURFACE.

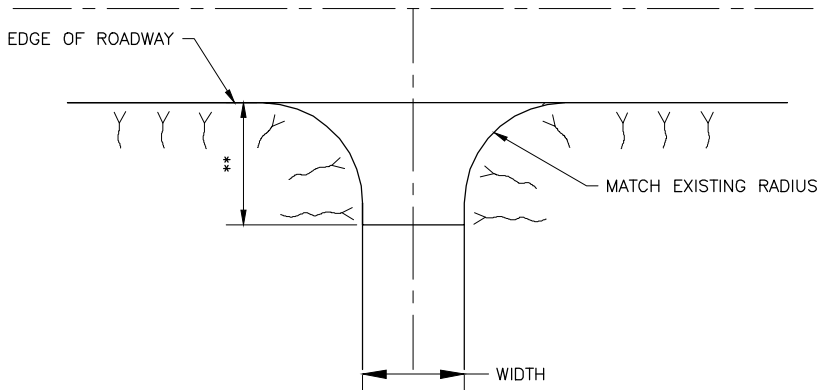
1. STA. 553+89.87 TO STA. 557+89.87 TRANSITION FROM A 3 INCH LIFT TO THE PROPOSED BRIDGE SURFACE.
2. STA. 560+44.81 TO STA. 564+44.81 TRANSITION FROM THE PROPOSED BRIDGE SURFACE TO A 3 INCH LIFT.



PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES II
3230 C ST., SUITE 201, ANCHORAGE
99503 (907) 722-5555
CERTIFICATE OF AUTHORIZATION
NIM_AFCG381

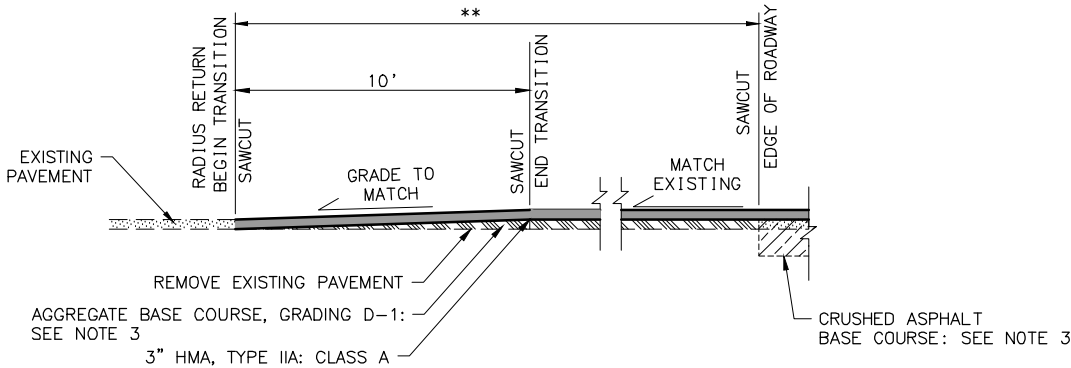
PAVEMENT TRANSITION DETAILS

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			ALASKA	001695/CFHWY00732	2023	E2	E5

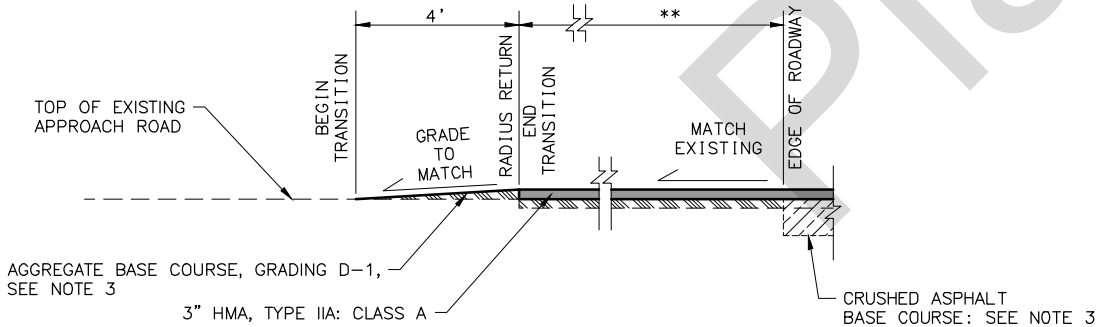


APPROACH/DRIVEWAYS PLAN VIEW

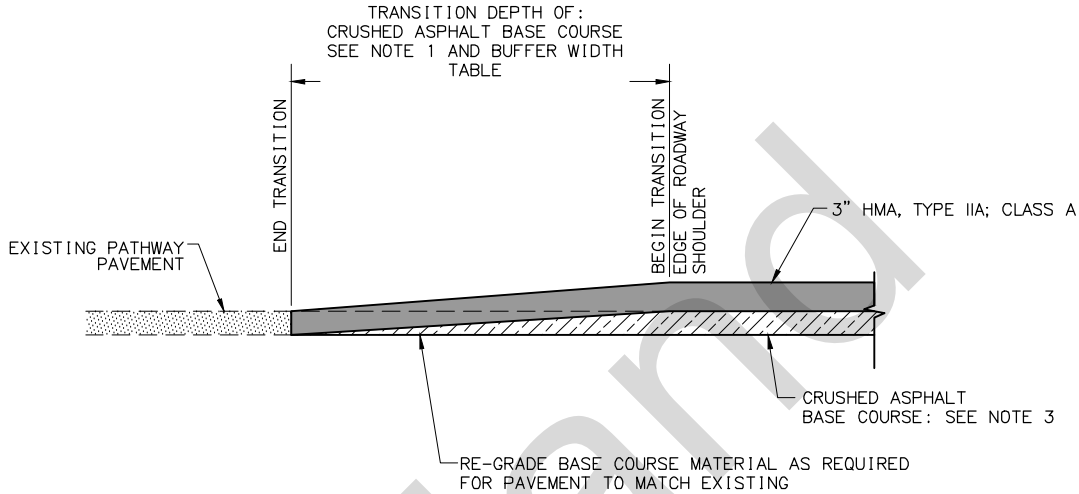
- * MATCH EXISTING WIDTH OR AS DIRECTED BY THE ENGINEER
** PAVE TO RADIUS RETURN OR AS DIRECTED BY THE ENGINEER



PAVED APPROACH/DRIVEWAY TRANSITION

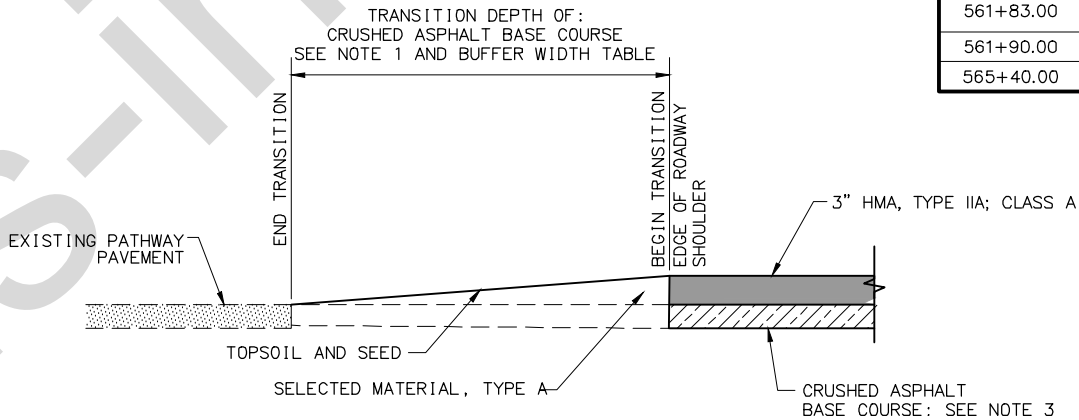


GRAVEL APPROACH/DRIVEWAY TRANSITION



STRIPED BUFFER TRANSITION

- STA. 560+44.81 TO STA. 565+40.00 (RIGHT)
STA. 565+40.00 TO STA. 574+40.00 (LEFT)
* SHOWN FOR LEFT SIDE. MIRROR FOR RIGHT SIDE.



TOPSOIL AND SEED BUFFER TRANSITION

STA. 533+40.00 TO STA. 557+89.87 (RIGHT)

BUFFER WIDTH			
FROM STATION	TO STATION	WIDTH (FEET)	REMARKS
533+40.00	557+89.87	3	
560+44.81	561+83.00	8	
561+83.00	561+90.00	*	TRANSITION WIDTH FROM 8 FEET TO 5 FEET
561+90.00	565+40.00	5	
565+40.00	574+40.00	4	

NOTE:

- BUFFER WILL TRANSITION FROM PROPOSED PAVEMENT TO THE EXISTING PATHWAY EDGE.
- CRUSHED ASPHALT BASE COURSE DEPTH VARIES. SEE B SHEETS.

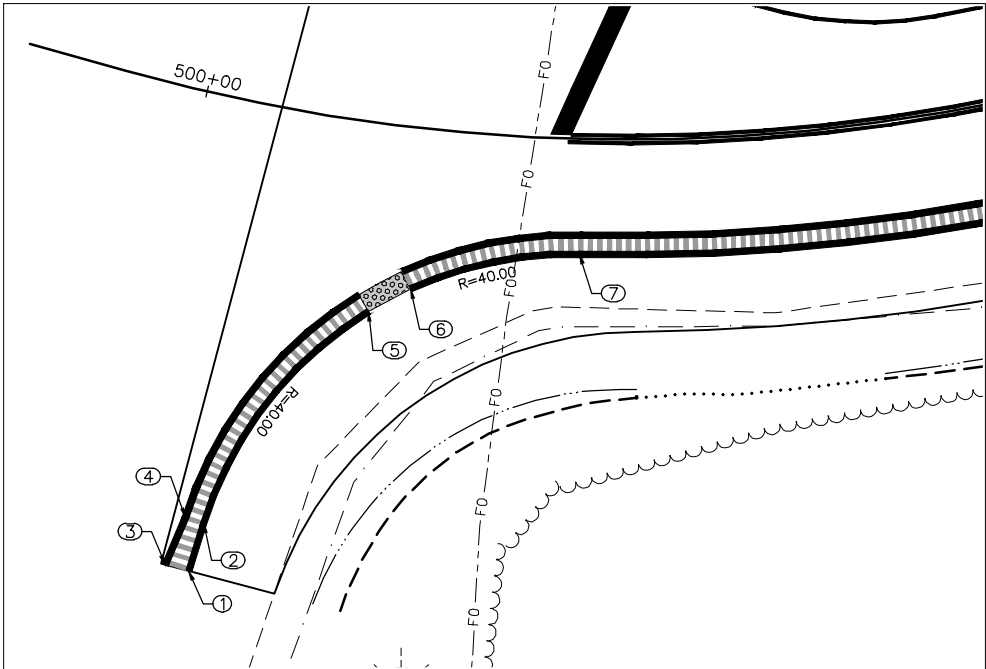


PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES INC.
3230 C ST, SUITE 201, ANCHORAGE AK
99503 (907) 272-5451
CERTIFICATE OF AUTHORIZATION
NUM. AEGC391

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION**

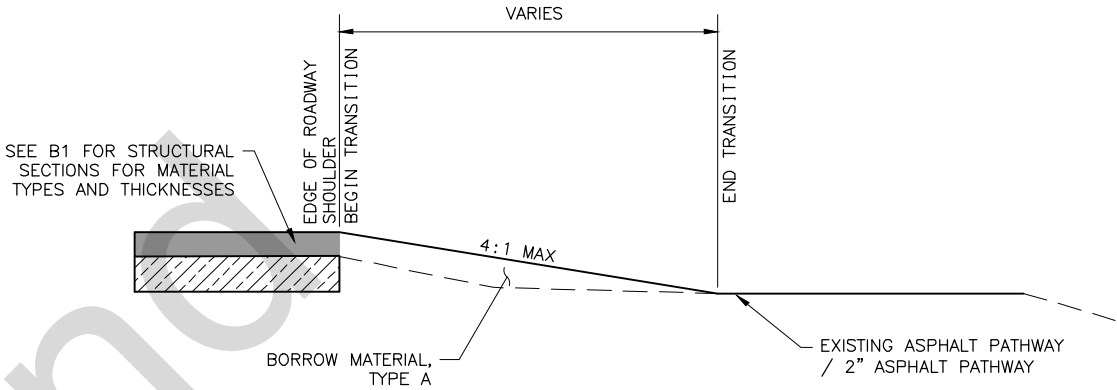
3 INCH LIFT TRANSITION DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001695/CFHWY00732	2023	E3	E5



RUMBLE STRIP LAYOUT

RUMBLE STRIP POINT TABLE			
POINT	STATION	OFFSET	DESCRIPTION
1	500+07.50	49.24' RT	MATCH EXISTING RUMBLE STRIP EDGE
2	500+07.99	44.08' RT	EDGE OF RUMBLE STRIP
3	500+05.46	49.07' RT	MATCH EXISTING RUMBLE STRIP EDGE
4	500+06.37	43.85' RT	EDGE OF RUMBLE STRIP
5	500+19.58	19.61' RT	EDGE OF RUMBLE STRIP
6	500+23.34	16.75' RT	EDGE OF RUMBLE STRIP
7	500+39.45	12.00' RT	EDGE OF RUMBLE STRIP

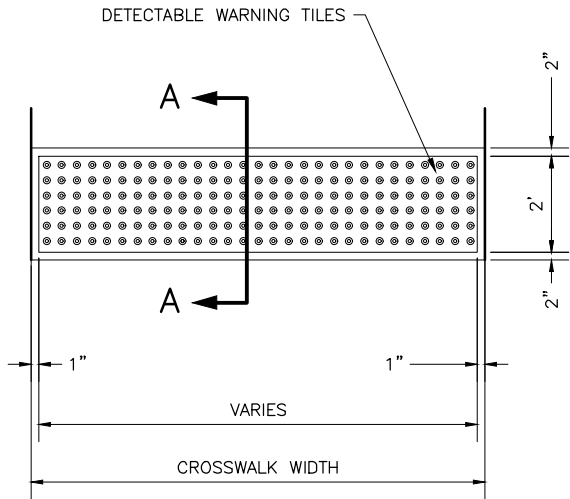


FORESLOPE TRANSITION TO ASPHALT PATHWAY

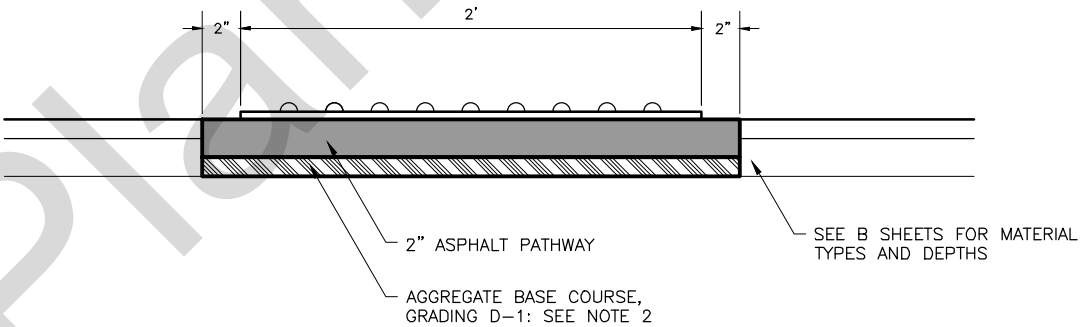
STA. 526+45.00 TO STA. 527+15.00 (RIGHT) SEE NOTE 1
STA. 575+00.00 TO EOP (LEFT) SEE NOTE 2
* SHOWN FOR RIGHT SIDE. MIRROR FOR LEFT SIDE.

NOTES:

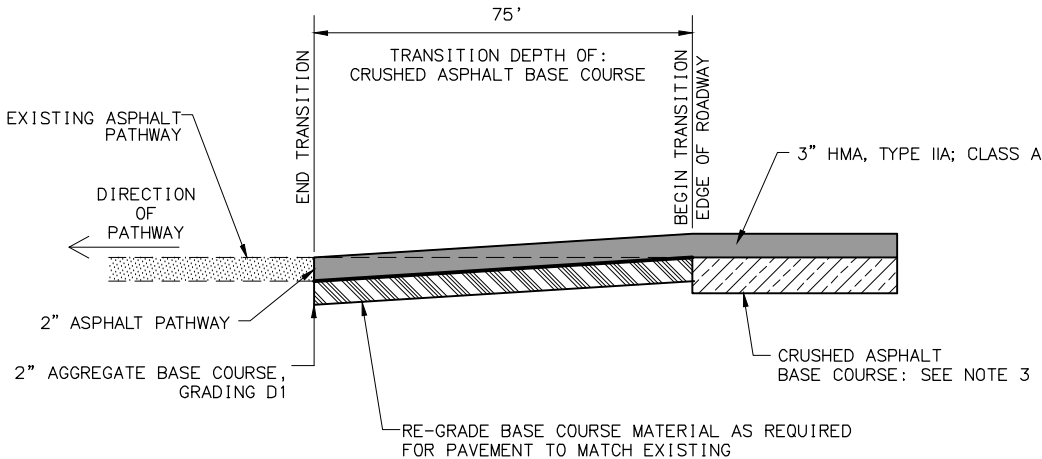
1. TRANSITION FORESLOPE TO THE PROPOSED EDGE OF 2" ASPHALT PATHWAY. SEE ASPHALT PATHWAY TRANSITION TO EXISTING PAVEMENT DETAIL.
2. TRANSITION FORESLOPE TO THE EXISTING ASPHALT PATHWAY EDGE. FROM STA. 578+80.00 TO STA. 583+25.00 TRANSITION PROPOSED FORESLOPE FROM THE PROPOSED EDGE OF SHOULDER TO THE EXISTING GROUND 16 FEET FROM PROPOSED EDGE OF LANE.



PLAN



SECTION A-A



ASPHALT PATHWAY TRANSITION TO EXISTING PAVEMENT

STA. 526+45.00 TO STA. 527+15.00 (RIGHT)
STA. 531+96.00 TO STA. 531+58.85 (RIGHT)
STA. 533+19.62 TO STA. 534+02.00 (RIGHT)

NOTE:

1. SEE B SHEETS PAVEMENT STRUCTURAL SECTION NO.1 AND PAVEMENT STRUCTURES SECTION NO.2 FOR CRUSHED ASPHALT BASE DEPTHS.
2. STA. 501+00.00 TO STA. 504+00.00 TRANSITION FROM EXISTING SURFACE TO A 3 INCH LIFT FOR A TRANSITION LENGTH OF 300 FEET.
3. STA. 375+00.00 TO 578+00.00 TRANSITION FROM A 3 INCH LIFT TO THE EXISTING SURFACE FOR A TRANSITION LENGTH OF 300 FEET.

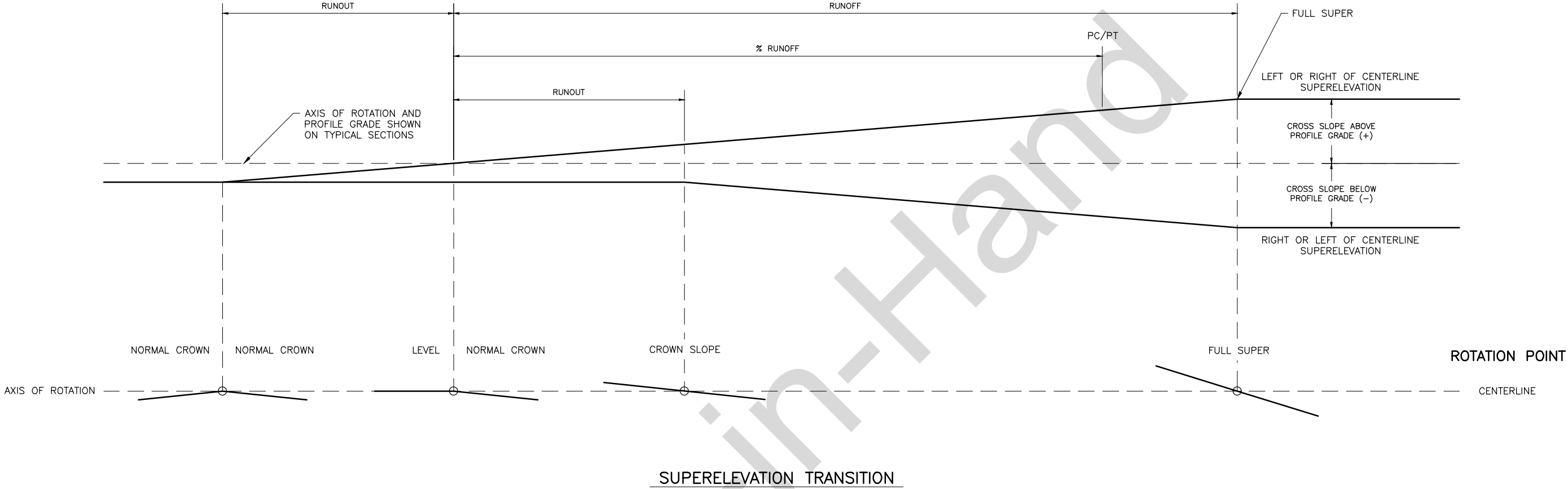
ASPHALT PATHWAY NOTES:

1. SEE STD. PLAN I-21.12 FOR ADDITIONAL REQUIREMENTS OF DETECTABLE WARNING TILES.
2. CRUSHED ASPHALT BASE COURSE DEPTH VARIES. SEE B SHEETS.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION**
ASPHALT PATHWAY DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001695/CFHWY00732	2023	E4	E5



SUPERELEVATION							
BEGIN TRANSITION			DESIGN SPEED (MPH)	END TRANSITION			REMARKS
STATION	CROSS SLOPE	HIGH SIDE		STATION	CROSS SLOPE	HIGH SIDE	
504+50	NORMAL CROWN		45	505+46	3.80%	LT	
512+52	3.80%	LT	45	513+24	2.80%	LT	
523+90	2.80%	LT	45	525+71	−5.40%	RT	
527+78	−5.40%	RT	45	529+86	5.40%	LT	
531+96	5.40%	LT	45	533+32	NORMAL CROWN		
550+47	NORMAL CROWN		45	551+34	−3.40%	RT	
555+48	−3.40%	RT	45	556+13	−2.00%	RT	TIE INTO BRIDGE CROSS SLOPE.
561+19	NORMAL CROWN		45	562+05	3.40%	LT	TIE FROM BRIDGE CROSS SLOPE.
565+46	3.40%	LT	45	566+99	−4.80%	RT	
568+87	−4.80%	RT	45	570+08	NORMAL CROWN		
570+53	NORMAL CROWN		45	571+15	−2.40%	RT	
571+77	−2.40%	RT	45	572+38	NORMAL CROWN		
573+19	NORMAL CROWN		45	573+91	−2.80%	RT	
575+68	−2.80%	RT	45	576+40	NORMAL CROWN		
584+85	NORMAL CROWN		25	585+74	4.80%	LT	
586+56	4.80%	LT	25	586+78	5.80%	LT	
587+84	5.80%	LT	25	588+92	NORMAL CROWN		TIE INTO EAGLE RIVER ROAD.

STATE OF ALASKA
49th
PLANS IN HAND
JASON C. KEWIN
CE-120407
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES INC.
3230 C ST, SUITE 201, ANCHORAGE AK
99503 (907) 272-5451
CERTIFICATE OF AUTHORIZATION
NUM: AEGC391

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION

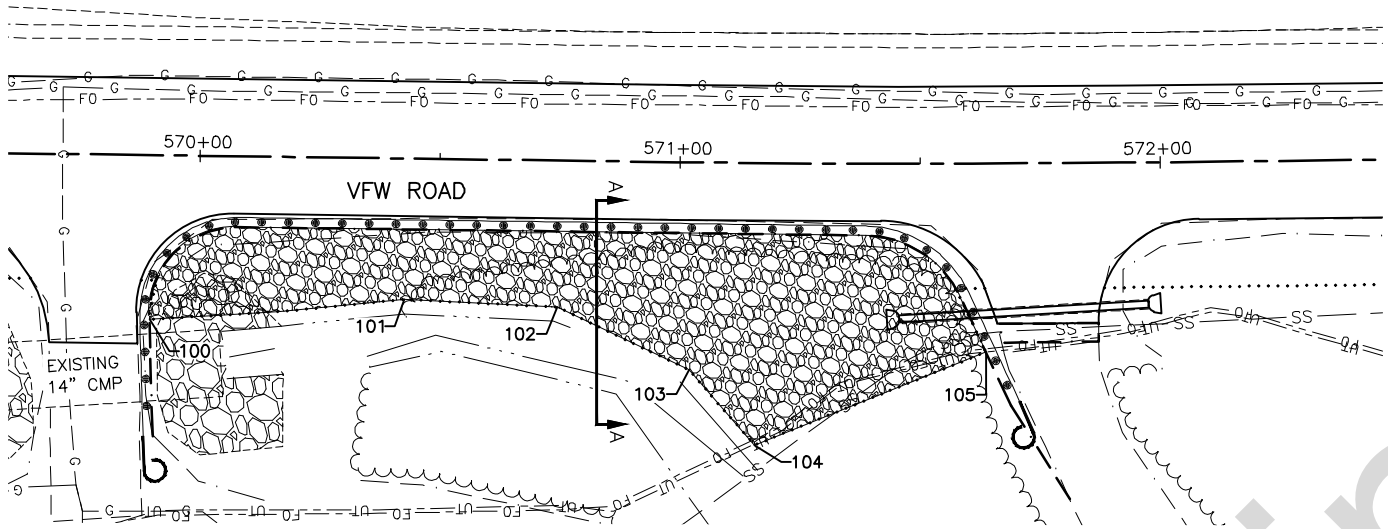
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001695/CFHWY00732	2023	E5	E5

RIPRAP BOUNDARY TABLE				
POINT	ELEV.	STATION	OFFSET	DESCRIPTION
100	257.4	569+89.92	34.2 RT	EDGE OF RIPRAP
101	253.4	570+43.00	29.3 RT	EDGE OF RIPRAP
102	254.6	570+74.79	30.5 RT	EDGE OF RIPRAP

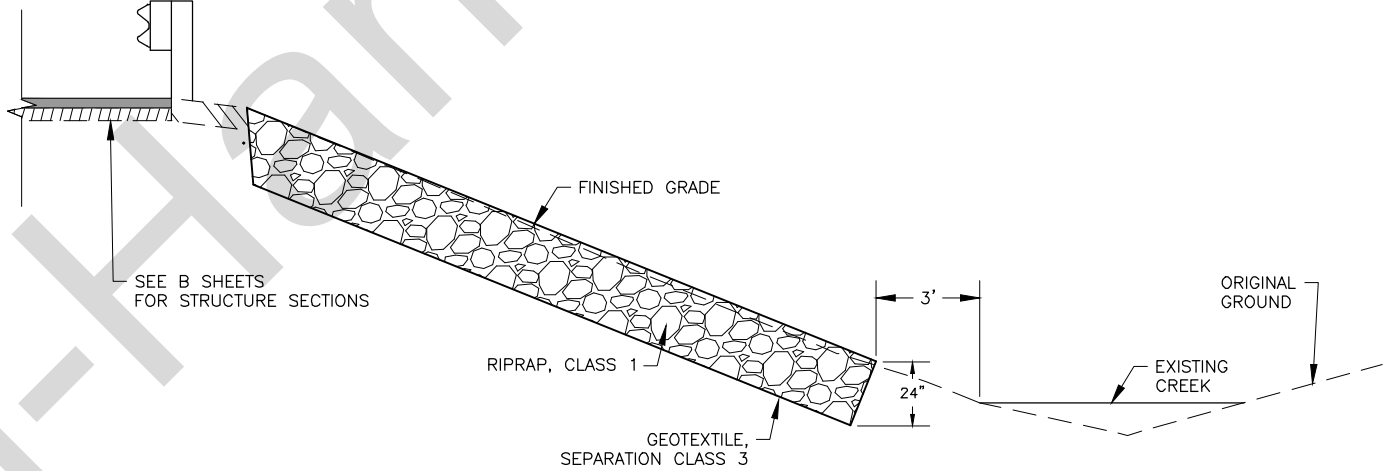
RIPRAP BOUNDARY TABLE				
POINT	ELEV.	STATION	OFFSET	DESCRIPTION
103	254.2	571+02.38	43.2 RT	EDGE OF RIPRAP
104	255.0	571+16.03	58.7 RT	EDGE OF RIPRAP
105	269.0	571+63.57	39.2 RT	EDGE OF RIPRAP



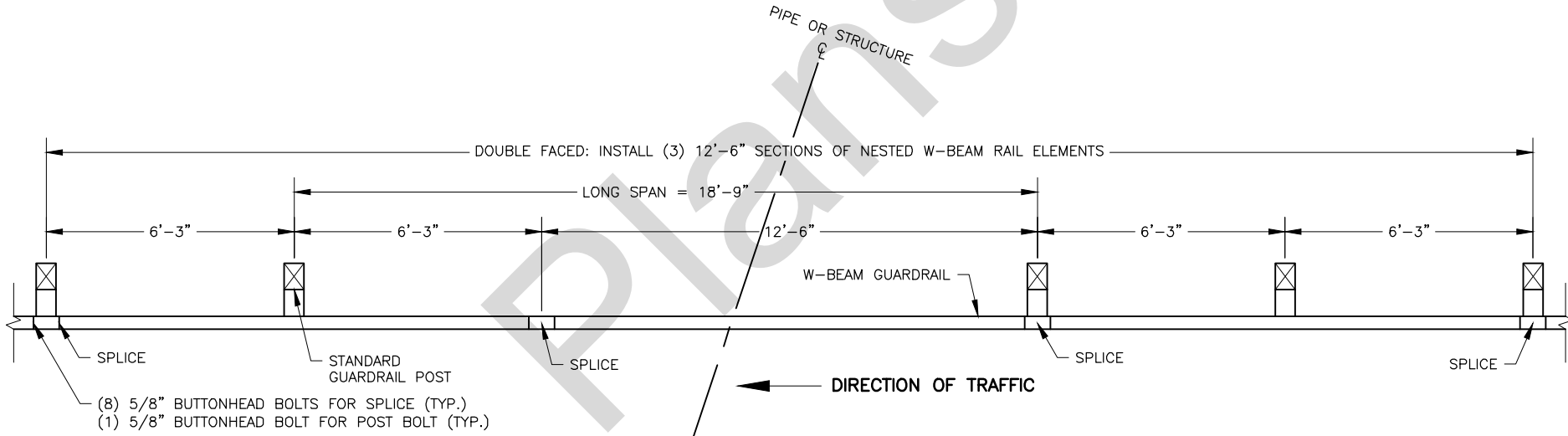
RIPRAP SLOPE EROSION PROTECTION

SCALE: 1"=20'

NOTE: SLOPE STABILIZATION MATERIALS AND DESIGN RECOMMENDATIONS ARE PENDING



SECTION A-A



LONG SPAN W-BEAM GUARDRAIL

LONG SPAN W-BEAM NOTES:

- CENTER LONG SPAN OF 2-BEAM GUARDRAIL ON THE SHORT RADIUS TERMINALS AT STA. 569+88.90 OFFSET 44.5 RT AND 571+70.44 OFFSET 31.5 RT TO AVOID DRIVEWAY CULVERTS. DO NOT INSTALL POSTS WITHIN LONG SPAN.
- REFERENCE STD. DWG G-00 FOR MAKING SPLICE CONNECTIONS AND STD. DWG G-28 AND G-29.1 FOR OTHER STANDARD INSTALLATION DETAILS.
- NESTED SECTIONS CONSIST OF TWO SECTIONS OF W-BEAM GUARDRAIL ELEMENTS, ONE SET INSIDE THE OTHER.

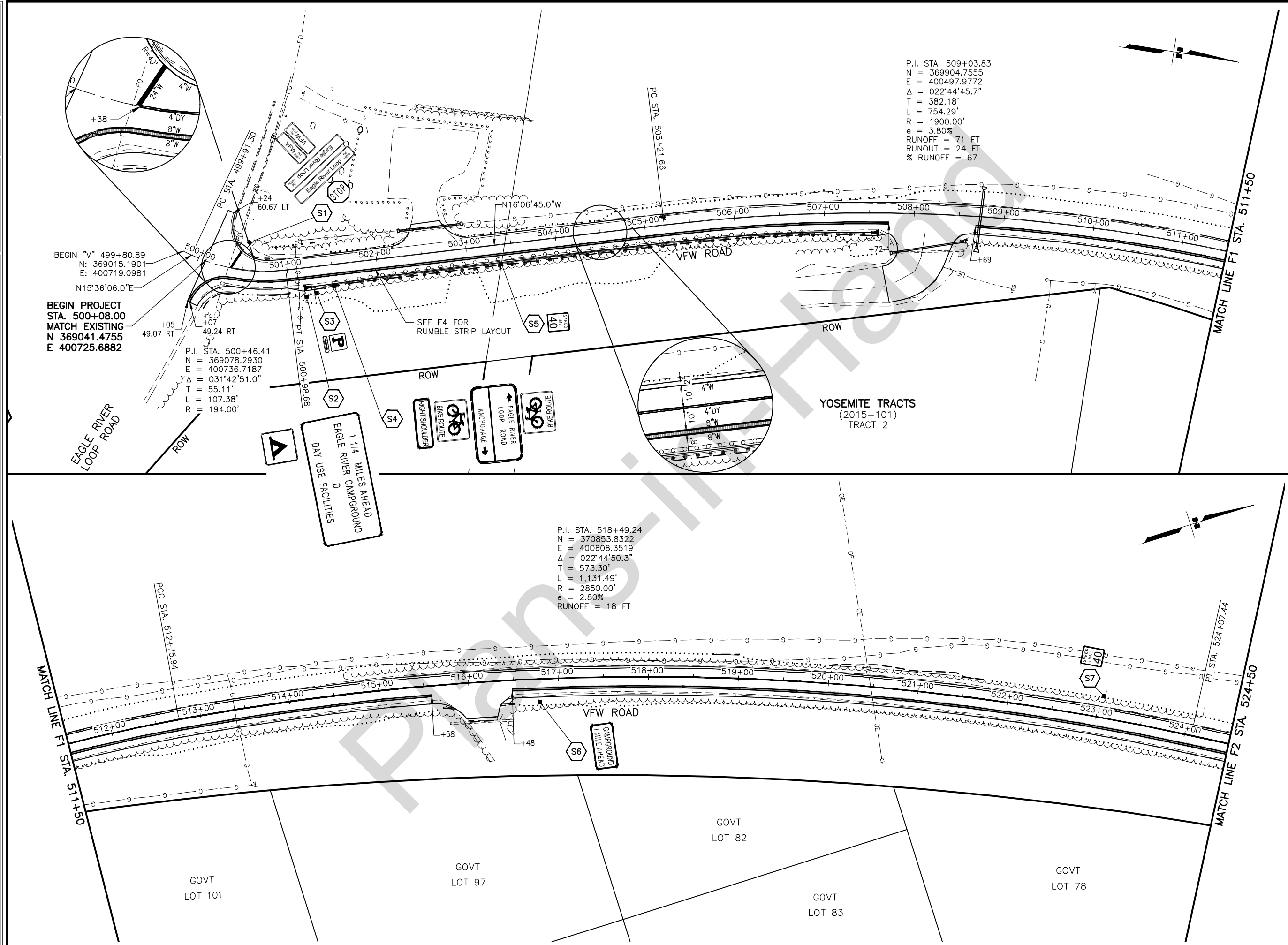
STATE OF ALASKA
49th
PLANS IN HAND
JASON C. KEWIN
CE-120407
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES INC.
3230 C ST, SUITE 201, ANCHORAGE AK
99503 (907) 272-5451
CERTIFICATE OF AUTHORIZATION
NUM. AECC391

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION

RIPRAP PLAN & LONG SPAN
GUARDRAIL DETAILS

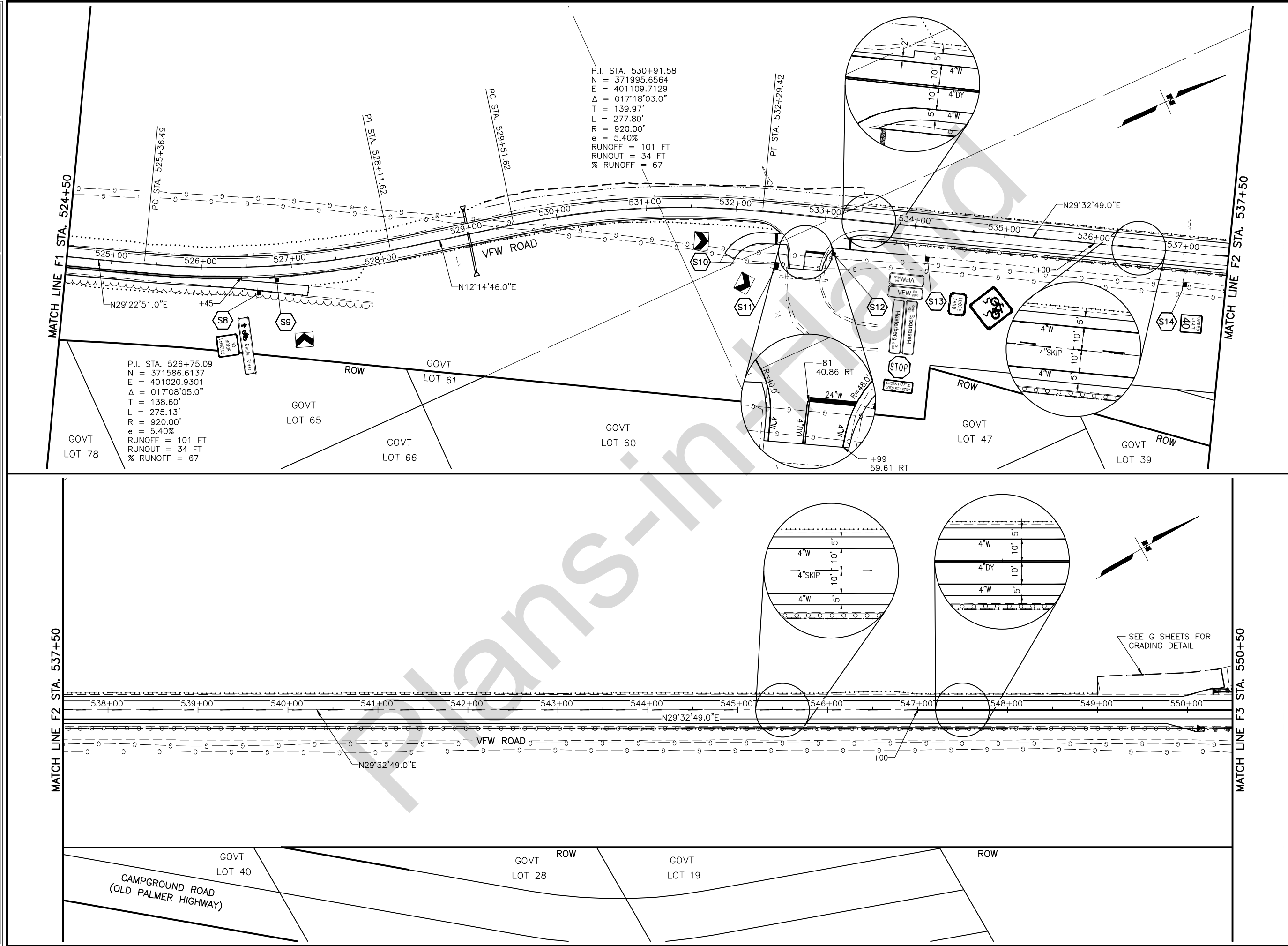


SHEET NO.	TOTAL SHEETS
F1	F4
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
001695/ CFHWY00732	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

VFW ROAD
E. EAGLE RIVER LOOP ROAD
F1

PLANS DEVELOPED BY:
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NUM. AECC391

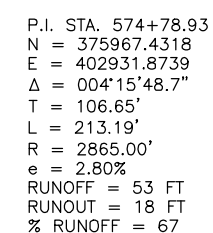
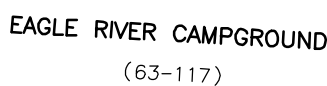
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
AMATS: VFW ROAD: EAGLE
RIVER LOOP TO EAGLE
RIVER ROAD PAVEMENT
PRESERVATION
BOP TO STA.
524+50



SHEET NO.	TOTAL SHEETS
F2	F4
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
001695/ CFHWY00732	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

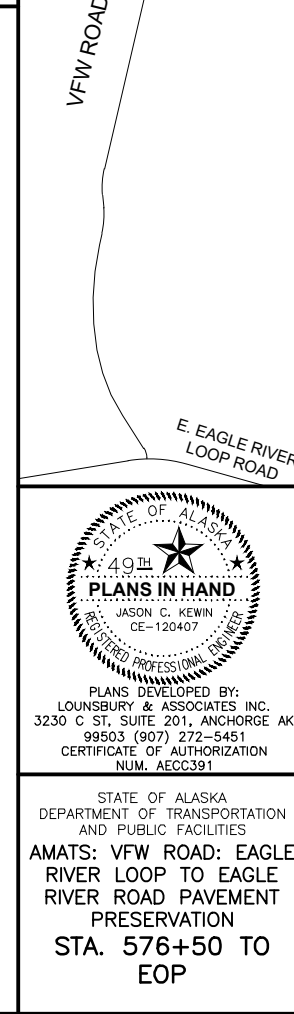
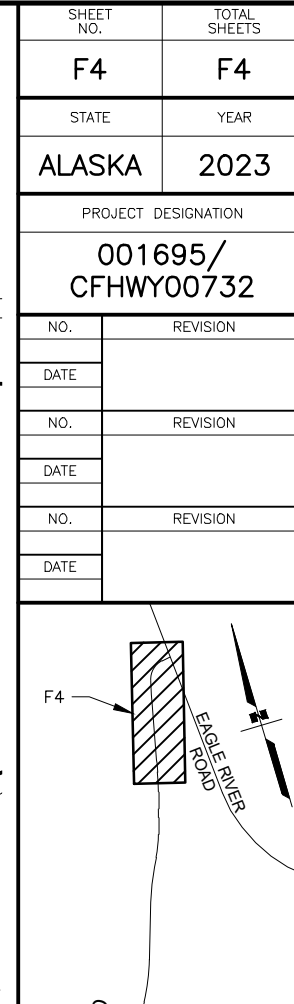
PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES INC.
3230 C ST., SUITE 201, ANCHORAGE AK
99503 (907) 272-5451
CERTIFICATE OF AUTHORIZATION
NUM. AECC391

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
AMATS: VFW ROAD: EAGLE
RIVER LOOP TO EAGLE
RIVER ROAD PAVEMENT
PRESERVATION
STA. 524+50
TO 550+50




 PLANS DEVELOPED BY:
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 AMATS: VFW ROAD: EAGLE
 RIVER LOOP TO EAGLE
 RIVER ROAD PAVEMENT
 PRESERVATION
 STA. 550+50
 TO 576+50



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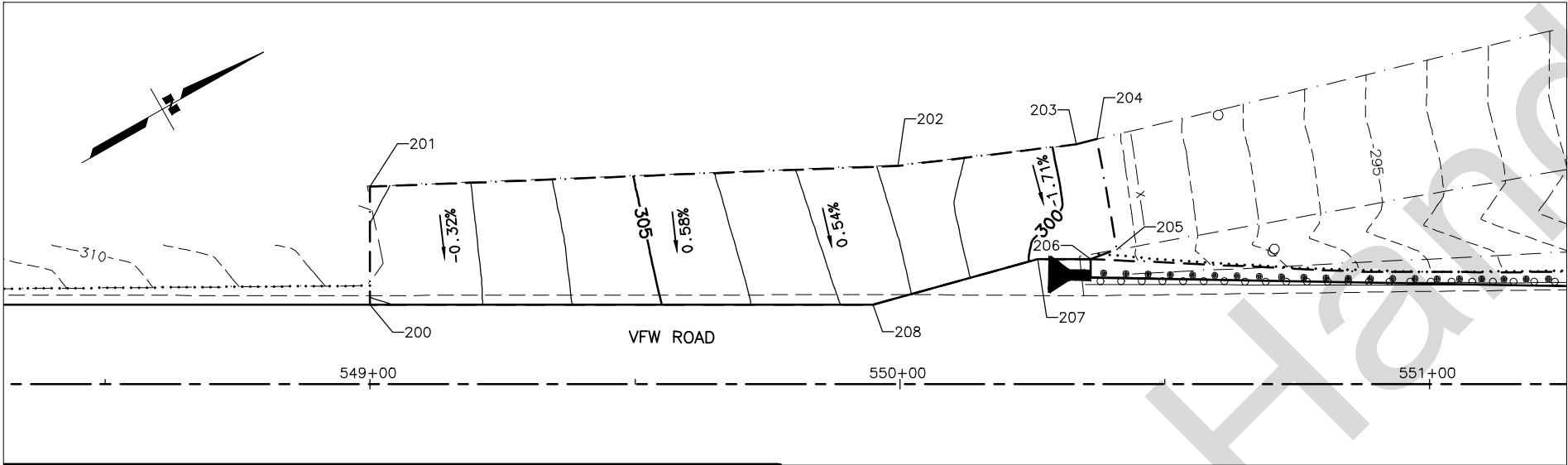
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7/7/2023 2:51 PM

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001695/CFHWY00732	2023	G1	G2

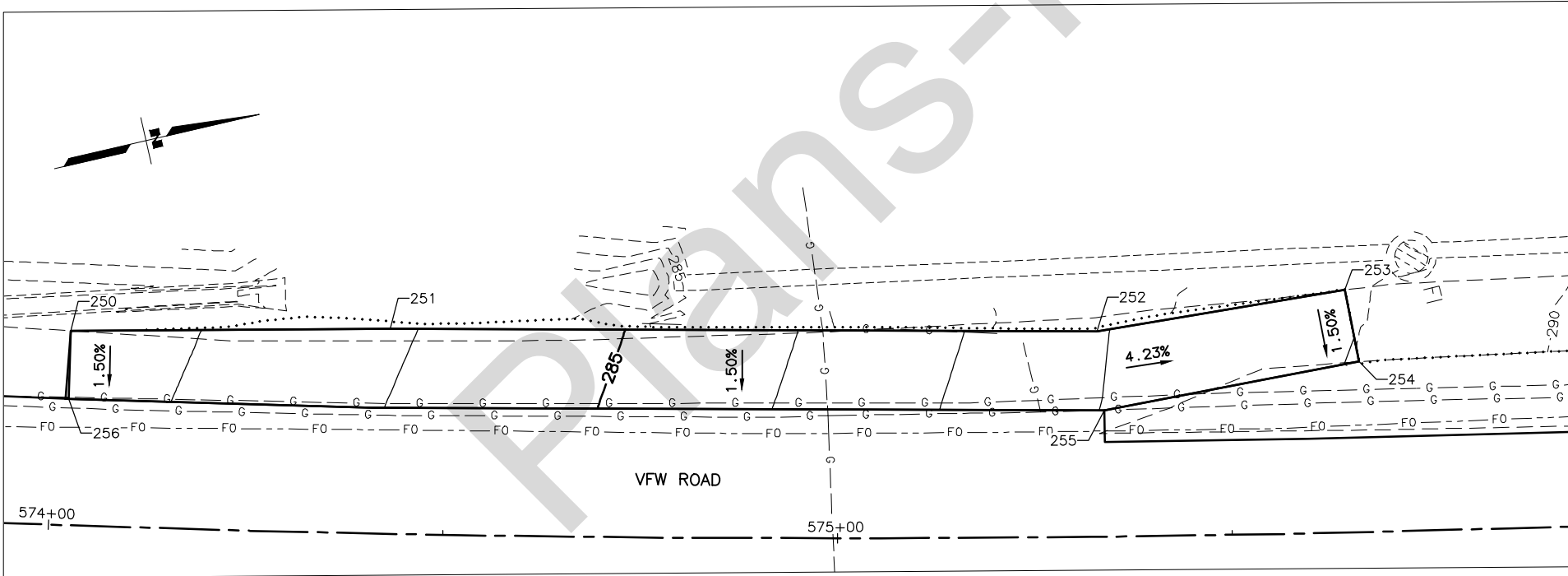


BRIDGE APPROACH GRADING PLAN

SCALE: 1"=15'

GRADING POINT TABLE

POINT	ELEV.	STATION	OFFSET	DESCRIPTION
200	ME	549+00.00	15.0 RT	MATCH EXISTING PATHWAY
201	ME	549+00.00	37.3 RT	MATCH EXISTING PATHWAY
202	301.7	549+99.65	41.2 RT	EDGE OF PATHWAY
203	299.7	550+33.37	45.3 RT	EDGE OF PATHWAY
204	ME	550+37.26	46.2 RT	MATCH EXISTING PATHWAY
205	ME	550+40.98	25.4 RT	MATCH EXISTING PATHWAY
206	299.2	550+36.02	23.6 RT	EDGE OF PATHWAY
207	299.9	550+26.02	23.6 RT	EDGE OF PATHWAY
208	302.6	549+94.90	15.0 RT	EDGE OF PATHWAY



PATHWAY GRADING PLAN

SCALE: 1"=10'

GRADING POINT TABLE

POINT	ELEV.	STATION	OFFSET	DESCRIPTION
250	ME	574+02.00	24.6 RT	MATCH EXISTING PATHWAY
251	283.9	574+42.81	26.0 RT	EDGE OF PATHWAY
252	287.9	575+33.17	26.0 RT	EDGE OF PATHWAY
253	ME	575+65.00	30.7 RT	MATCH EXISTING PATHWAY
254	ME	575+66.55	21.6 RT	MATCH EXISTING PATHWAY
255	288.0	575+34.00	16.0 RT	EDGE OF PATHWAY
256	ME	574+02.00	16.0 RT	MATCH EXISTING PATHWAY

NOTE:

- USE AGGREGATE BASE COURSE GRADING D-1 FOR THE BRIDGE APPROACH MATERIALS.



PLANS DEVELOPED BY:
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CERTIFICATE OF AUTHORIZATION
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION

APPROACH & PATHWAY GRADING

DESIGNED BY
CHECKED BY
DRAFTED BY

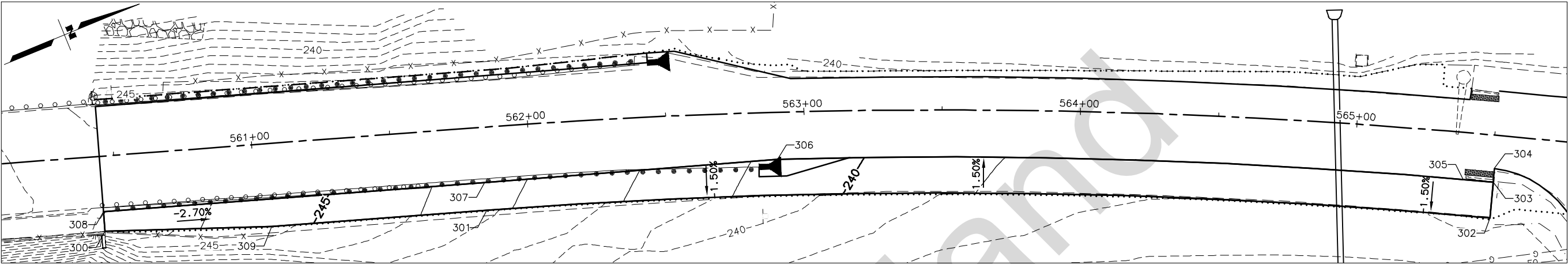
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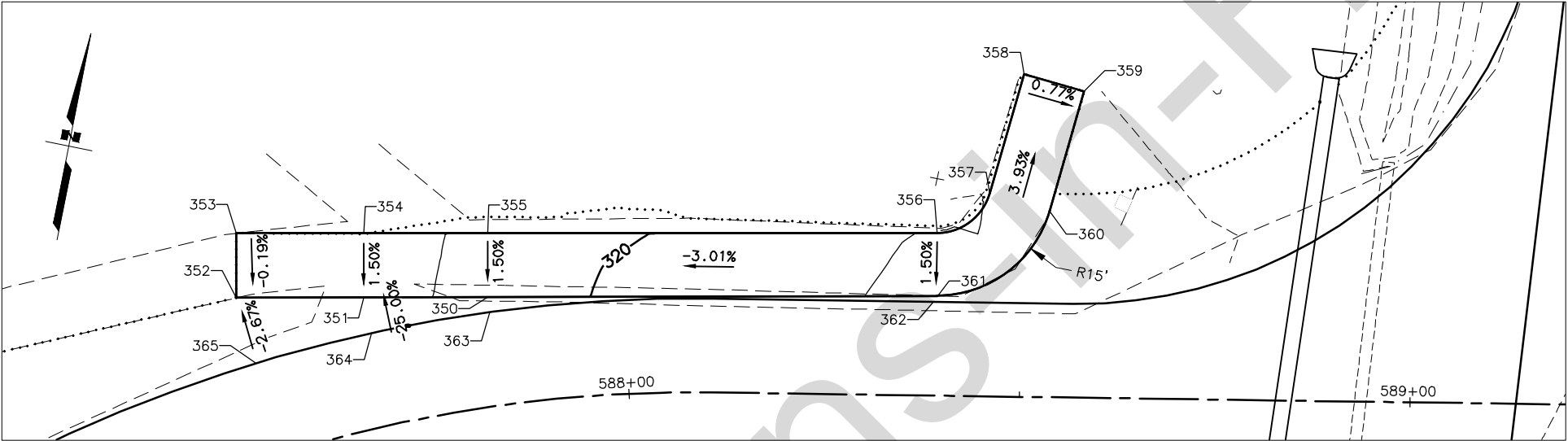
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DRAWING LOCATION
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001695/CFHWY00732	2023	G2	G2



PATHWAY GRADING PLAN
SCALE: 1"=20'



PATHWAY GRADING PLAN
SCALE: 1"=10'

GRADING POINT TABLE				
POINT	ELEV.	STATION	OFFSET	DESCRIPTION
300	ME	560+44.81	27.2 RT	MATCH EXISTING PATHWAY
301	243.3	561+82.99	30.0 RT	EDGE OF PATHWAY
302	238.6	565+51.00	30.0 RT	EDGE OF PATHWAY
303	238.7	565+51.00	17.0 RT	EDGE OF PATHWAY
304	238.9	565+51.00	12.0 RT	EDGE OF PATHWAY
305	238.5	565+40.00	17.0 RT	EDGE OF PATHWAY
306	240.8	562+90.00	17.0 RT	EDGE OF PATHWAY
307	243.4	561+82.99	20.0 RT	EDGE OF PATHWAY
308	ME	560+44.87	20.0 RT	MATCH EXISTING PATHWAY
309	245.3	561+05.00	30.0 RT	EDGE OF PATHWAY

GRADING POINT TABLE				
POINT	ELEV.	STATION	OFFSET	DESCRIPTION
350	319.5	587+83.72	13.9 RT	EDGE OF PATHWAY
351	318.3	587+69.32	16.7 RT	EDGE OF PATHWAY
352	ME	587+54.99	20.7 RT	MATCH EXISTING PATHWAY
353	ME	587+57.04	28.7 RT	MATCH EXISTING PATHWAY
354	318.2	587+70.84	24.7 RT	EDGE OF PATHWAY
355	319.3	587+84.68	22.0 RT	EDGE OF PATHWAY
356	321.0	588+39.16	20.8 RT	EDGE OF PATHWAY
357	321.1	588+45.81	25.9 RT	EDGE OF PATHWAY

GRADING POINT TABLE				
POINT	ELEV.	STATION	OFFSET	DESCRIPTION
358	ME	588+50.00	41.3 RT	MATCH EXISTING PATHWAY
359	ME	588+57.72	39.2 RT	MATCH EXISTING PATHWAY
360	321.3	588+53.53	23.8 RT	EDGE OF PATHWAY
361	321.2	588+39.31	12.8 RT	EDGE OF PATHWAY
362	321.2	588+38.84	12.0 RT	EDGE OF ROADWAY
363	320.0	587+83.72	12.0 RT	EDGE OF ROADWAY
364	319.5	587+69.32	12.0 RT	EDGE OF ROADWAY
365	319.1	587+54.99	12.0 RT	EDGE OF ROADWAY



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION

PATHWAY GRADING

PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES INC.
3230 C ST, SUITE 201, ANCHORAGE AK
99503 (907) 272-5451
CERTIFICATE OF AUTHORIZATION
NUM: AEGC391

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001695/CFHWY00732	2023	H1	H7

SIGNING & STRIPING NOTES:

1. ALL STATION LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.
2. USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN POST TYPES IN THE SIGN SUMMARY SHEETS.

A. PT MEANS A PERFORATED STEEL TUBE.

B. T MEANS A SQUARE STEEL TUBE.

C. P MEANS A ROUND STEEL PIPE.

D. W MEANS A WIDE FLANGE BEAM.

E. POPL MEANS A POLE PLATE INSTALLED PER ITS ALASKA STANDARD PLAN S-23.
3. FABRICATE ALL SIGNS FROM 0.125" THICK ALUMINUM SHEETING, UNLESS STATED ELSEWHERE.
4. FOR SIGNS SUPPORTED BY MULTIPLE POSTS, FABRICATE THE POSTS WITH THEIR TOPS LEVEL WITH ONE ANOTHER.
5. FOR PERFORATED STEEL TUBE SIGNPOSTS, INSTALL THE CONCRETE FOUNDATION OPTION SHOWN ON ALASKA STANDARD PLAN S-30. TRIM EACH PT POST TO LIMIT THE LENGTH INSERTED INTO THE FOUNDATION TO 12 INCHES.
6. FABRICATE GUIDE SIGNS ACCORDING TO THE SHOP DRAWINGS INCLUDED IN THE APPENDICES OF PART 4, CONTRACT PROVISIONS AND SPECIAL PROVISIONS. TRIM THE CORNERS OF ALL SIGNS TO THE RADIUS SHOWN ON EACH SHOP DRAWING.
7. ERECT NEW SIGNS BEFORE REMOVAL OF EXISTING SIGNS WITH SIMILAR MESSAGE. NOTIFY THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO BEGINNING SIGN REMOVAL AND SALVAGE OR DISPOSAL ACTIVITIES.
8. FOR SIGNS SUPPORTED BY MULTIPLE TUBES OR PIPES, LOCATE THE OUTER POSTS ON MAXIMUM SIX FEET CENTERS. INSTALL ADJACENT WIDE FLANGE POSTS ON MINIMUM EIGHT FEET CENTERS.
9. SELECTIVE AND HAND CLEARING SHALL BE PERFORMED AT THE DISCRETION OF THE ENGINEER, IN ACCORDANCE WITH SECTION 201, UPSTREAM OF ALL SIGN INSTALLATION LOCATIONS TO ACHIEVE MINIMUM SIGN VISIBILITY REQUIREMENTS. IF NOT INCLUDED AS A SEPARATE ITEM, THIS WORK SHALL BE SUBSIDIARY TO THE SIGN INSTALLATION ITEMS AND WORK.
10. DIMENSIONS REFER TO THE CENTER OF STRIPE AND THE EDGE OF PAVEMENT OR FACE OF CURB WHEN PRESENT.
11. IF THE NEW AND EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER ON THE NEW PAVEMENT.
12. WHERE NEW STRIPING IS TO EXTEND BEYOND PAVING LIMITS, REMOVE EXISTING STRIPING IN ACCORDANCE WITH SUBSECTION 670-3.04 TO THE EXTENT OF STRIPING LIMITS.
13. SEE SHEET E2 FOR BUFFER WIDTH TABLE.

ABBREVIATIONS

- C - CENTERLINE
- NB - NORTH BOUND
- EB - EAST BOUND
- SB - SOUTH BOUND
- WB - WEST BOUND
- W - WHITE
- Y - YELLOW
- DY - DOUBLE YELLOW

CALL BEFORE YOU DIG!

CONTRACTOR SHALL CALL A MINIMUM OF
3 DAYS IN ADVANCE OF CONSTRUCTION

ALASKA DIGLINE....907-278-3121 OR 800-478-3121

CALL OR GO TO WWW.AKONECALL.COM/STATEWIDE.HTM
FOR MEMBER LIST OF WHO WILL BE NOTIFIED



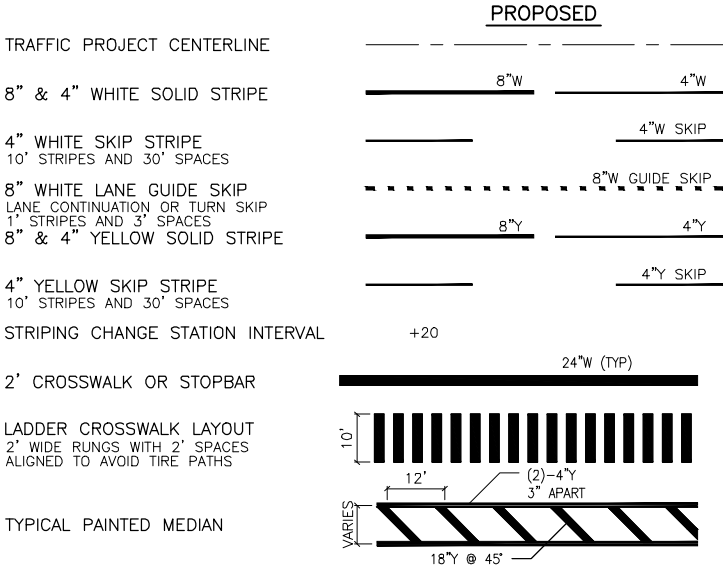
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

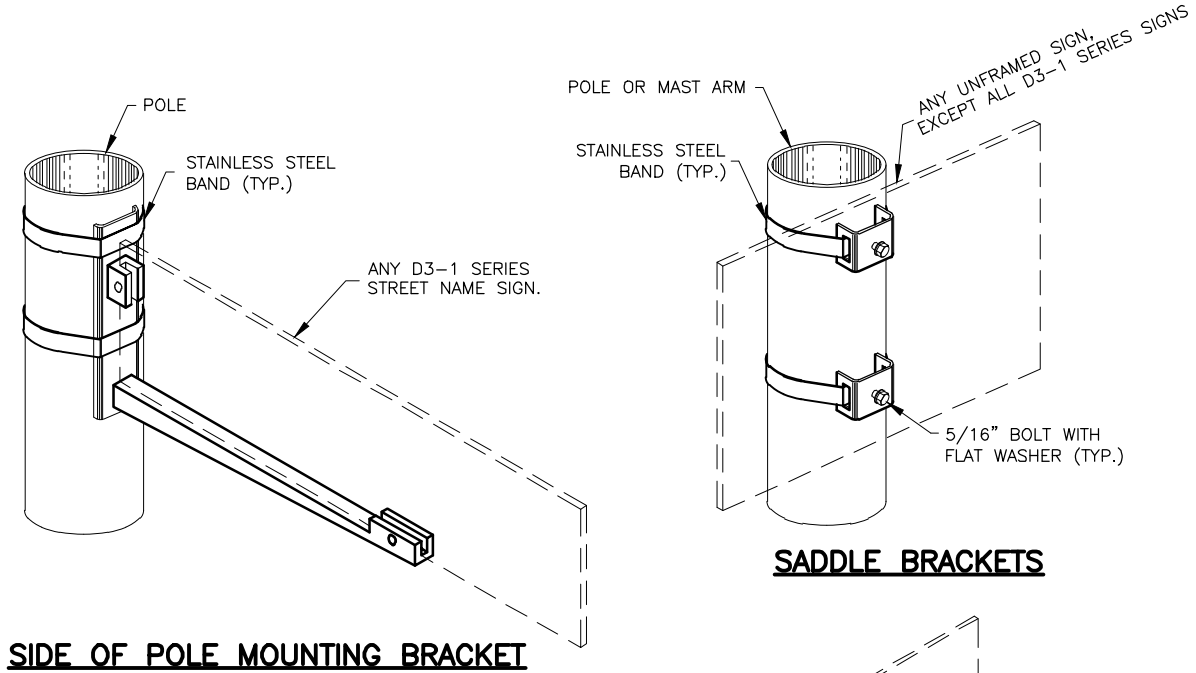
AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION

TRAFFIC LEGEND & NOTES

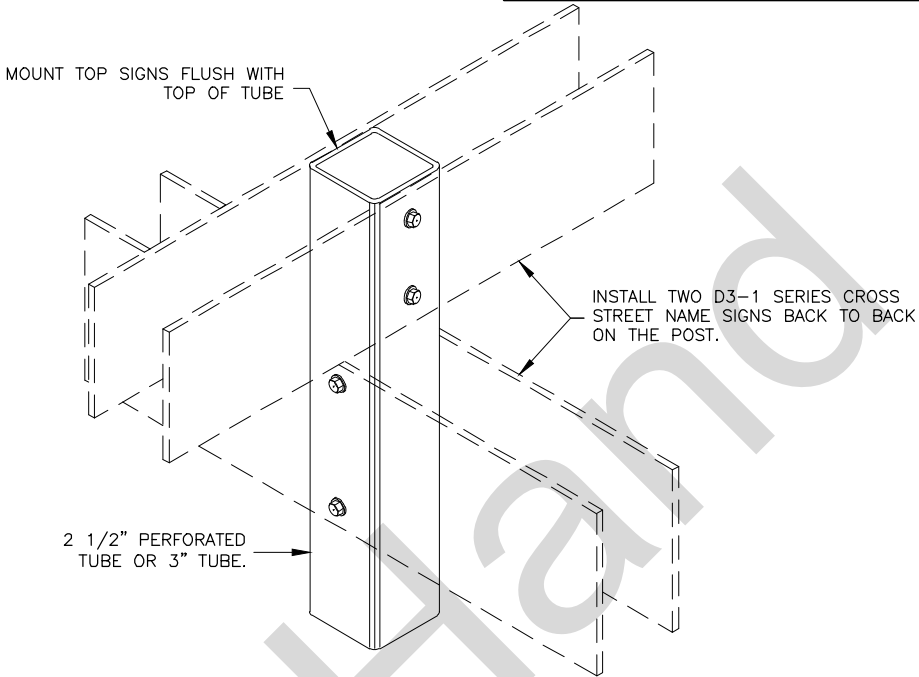
PAVEMENT MARKINGS



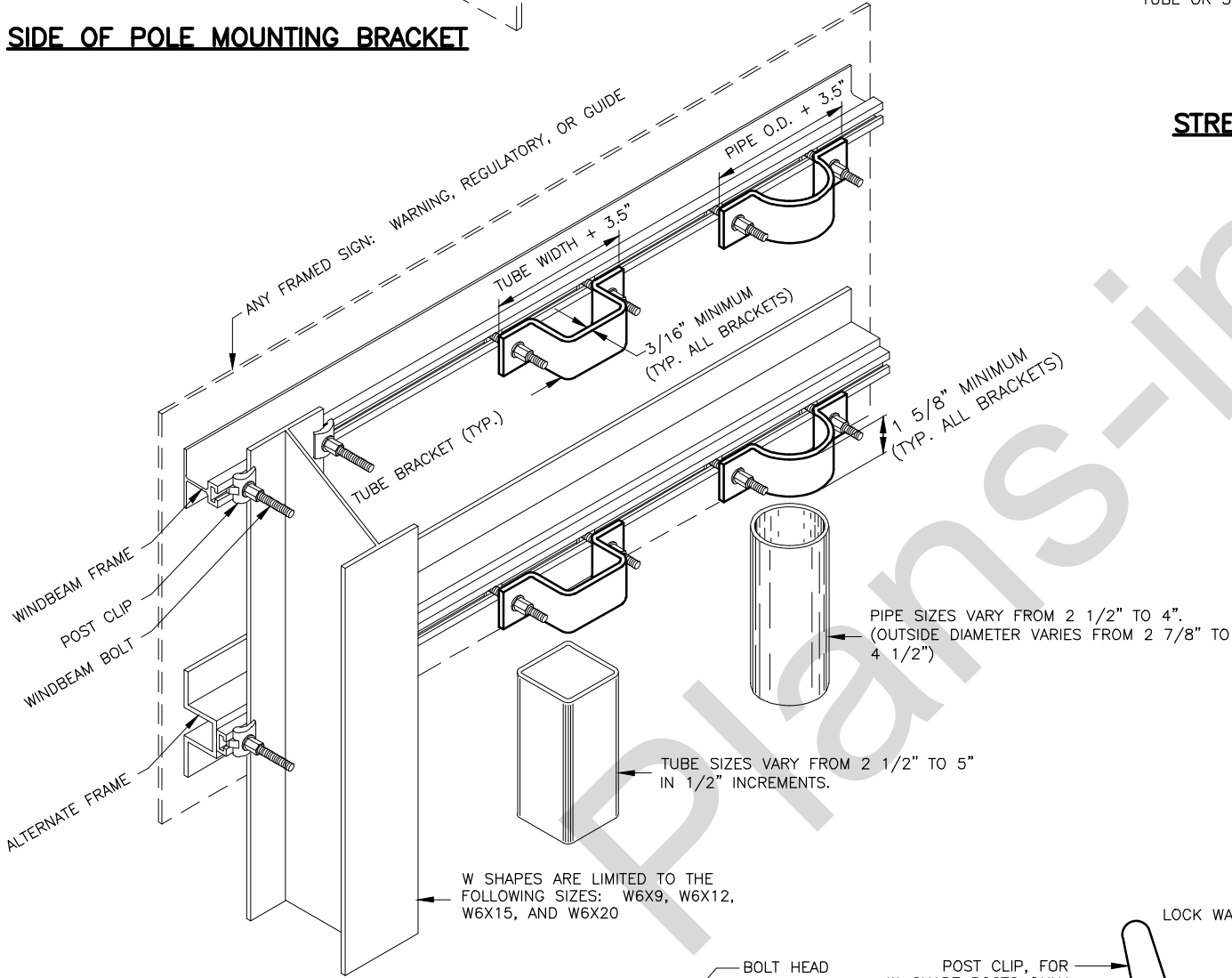
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001695/CFHWY00732	2023	H2	H7



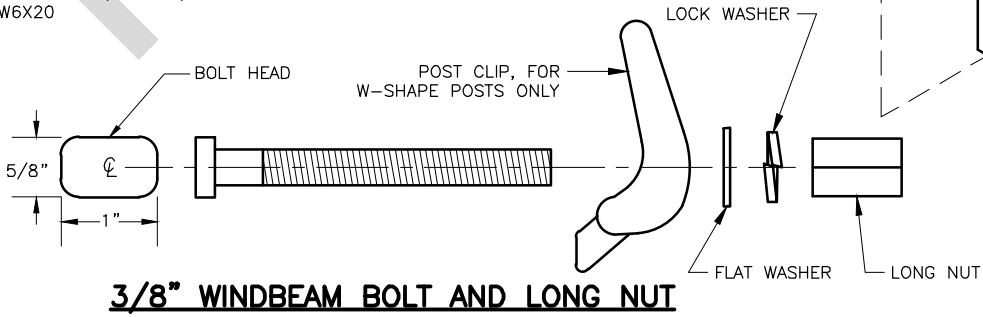
SIDE OF POLE MOUNTING BRACKET



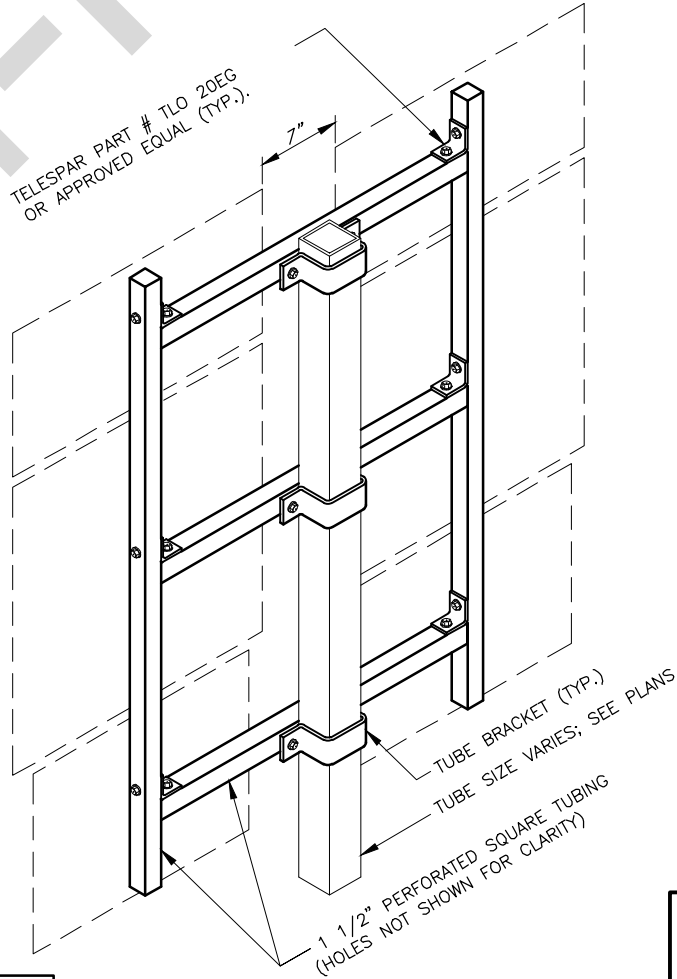
STREET NAME SIGN INSTALLATION



FRAMED SIGN ATTACHMENT BRACKETS



3/8" WINDBEAM BOLT AND LONG NUT



ROUTE MARKER TREE

- NOTES:
- EXCEPT FOR POLES AND MAST ARMS, ONLY USE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
 - ATTACH SIGNS, FRAMED AND UNFRAMED TO THEIR SUPPORTS WITH ZINC PLATED 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PERFORATED TUBES WITH ACCESSORY DRIVE RIVETS AND TO SADDLES WITH 5/16" BOLTS.
 - BOLT UNFRAMED SIGNS DIRECTLY TO TUBES IN TWO LOCATIONS, NEAR TOP AND NEAR BOTTOM OF MATING SURFACE. ATTACH THEM TO POLES AND MAST ARMS WITH TWO SADDLES.
 - ATTACH BRACKETS TO POLES AND MAST ARMS WITH DOUBLE WRAPS OF 3/4" WIDE BY 0.020" THICK STAINLESS STEEL BANDING MATERIAL. TIGHTEN EACH BAND UNTIL IT STOPS MOVING THROUGH THE BUCKLE.
 - ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES, AND A BRACKET WITH SQUARE CORNERS ON TUBES.
 - THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
 - ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL.
 - ATTACH FRAMED SIGNS TO POLES AND MAST ARMS USING POLE PLATES INSTALLED ACCORDING TO ALASKA STANDARD PLAN S-23.
 - FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
 - INSTALL THE TOP EDGE OF SIGNS 1" ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
 - INSTALL THE TOP EDGE OF SIGNS 3" BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
 - THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
 - INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.

FASTENER SPECIFICATION TABLE			
FASTENERS	ALUMINUM	STEEL	STAINLESS STEEL
BOLTS	ASTM F468 2024-T4	ASTM A307	ASTM F593
NUTS	ASTM F467 2024-T4	ASTM A563	ASTM F594
WASHERS	ANSI B18.22.1	ASTM F844	ANSI B18.22.1
POST CLIPS	ASTM B179 356-T6	N/A	N/A

STATE OF ALASKA
49th
PLANS IN HAND
JASON C. KEWIN
CE-120407
REGISTERED PROFESSIONAL ENGINEER

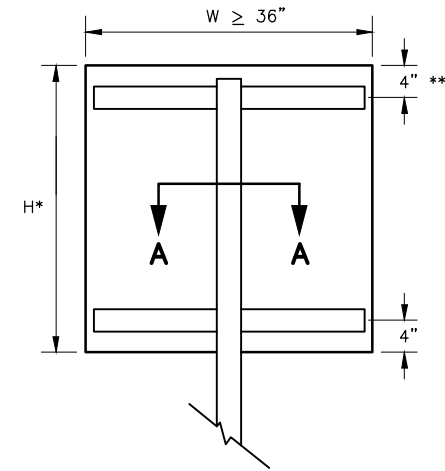
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STATE OF ALASKA
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AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION

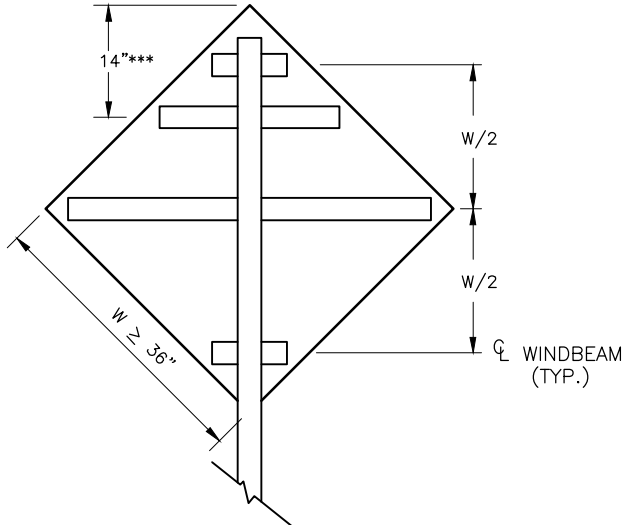
SIGN ATTACHMENT DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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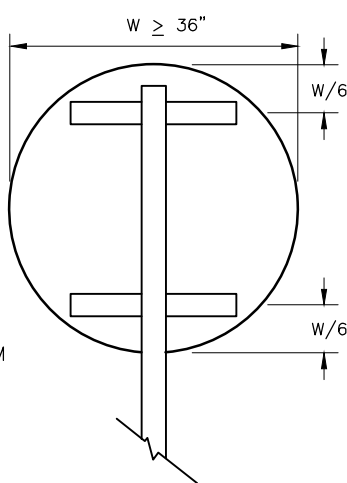


RECTANGLES AND TRAPEZOIDS

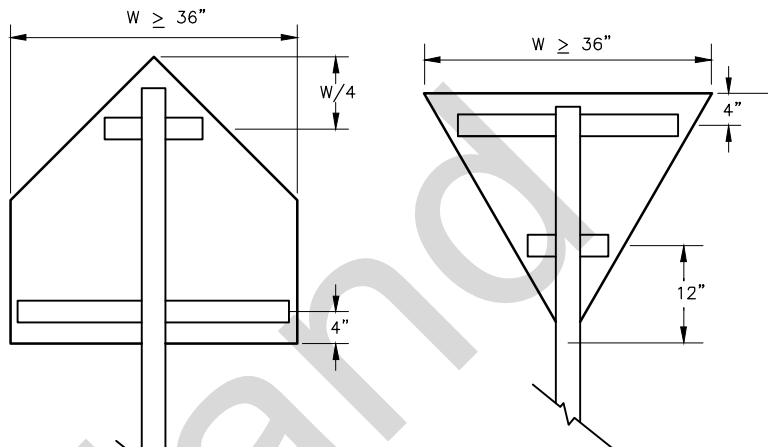
* WHEN H > 42 INCHES, INSTALL A 3RD WINDBEAM CENTERED ON THE SIGN.
** FOR S5-1 SIGNS MOUNTED ON FLASHING BEACON POSTS, USE A 10" OFFSET. OTHERWISE, USE 4".



*** FOR WARNING SIGNS MOUNTED ON FLASHING BEACON POSTS, USE THE 14" OFFSET. OTHERWISE, USE W/2.



ROUNDS AND OCTAGONS

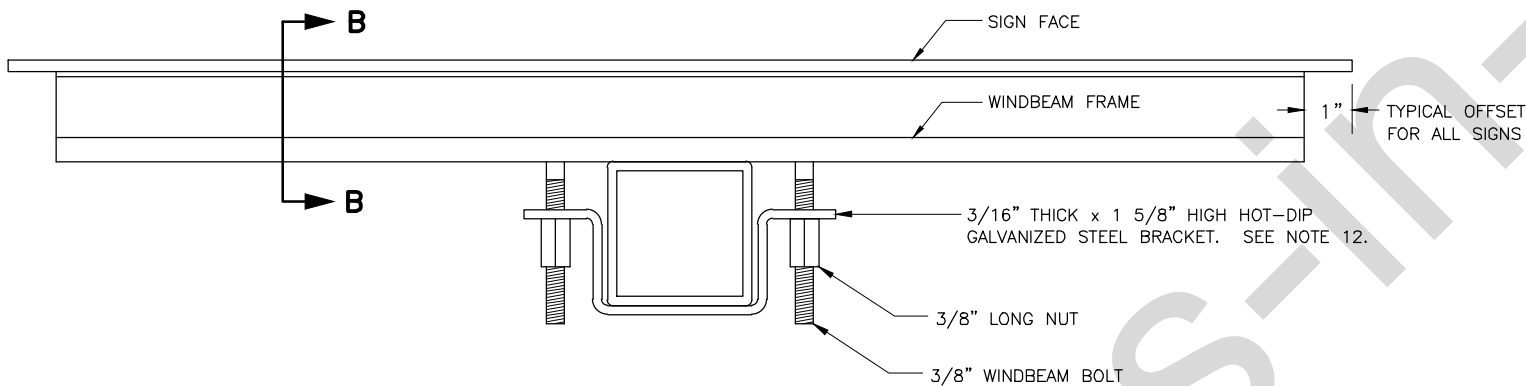


NOTES:

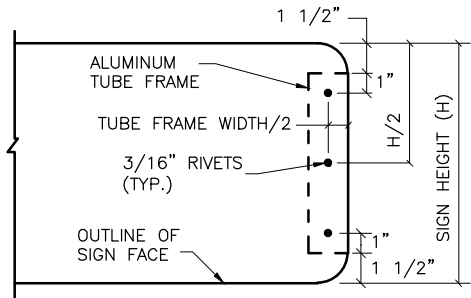
- EXCEPT FOR POLES AND MAST ARMS, ONLY USE SQUARE STEEL TUBES TO SUPPORT SIGNS MOUNTED ON SINGLE POSTS.
- INSTALL WINDBEAM OR ZEE SHAPED FRAMING MEMBERS ON DIAMOND SHAPED SIGNS 36 INCHES AND LONGER ON A SIDE AND ON OTHER SIGNS 36 INCHES WIDE AND WIDER.
- IN HIGH WIND AREAS, THE PLANS MAY REQUIRE SIGNS SMALLER THAN THOSE LISTED IN NOTE 2 BE FRAMED AS SHOWN HERE IN.
- THIS DRAWING DEPICTS THE WINDBEAM FRAMING AND ATTACHMENT SYSTEM. ATTACH SIGNS FRAMED WITH ZEE SHAPED FRAMING ACCORDING TO REGIONAL DRAWING "SIGN ATTACHMENT DETAILS", USING "U" SHAPED BRACKETS AND TWO BOLTS WITH NUTS.
- THE ENGINEER MAY APPROVE OTHER FRAMING MEMBERS. SUBMIT DOCUMENTS THAT DETAIL THE FRAME'S CROSS SECTION AND STRENGTH, AND METHOD OF ATTACHING THE FRAME TO A POST.
- USE FRAMING MEMBERS MADE FROM ALUMINUM ALLOY 6061-T6.
- EACH FRAMING MEMBER SHALL BE ONE CONTINUOUS PIECE.
- ATTACH FRAMING MEMBERS TO THE SIGN PANELS WITH RIVETS OR AN ENGINEER APPROVED, DOUBLE SIDED, HIGH STRENGTH, ADHESIVE TAPE.
- WITH THE ADHESIVE TAPE, INSTALL TWO RIVETS IN BOTH ENDS OF EACH FRAMING MEMBER, AND ATTACH THE FRAMING MEMBERS TO THE SIGN PANELS ACCORDING TO THE TAPE MANUFACTURER'S WRITTEN INSTRUCTIONS, INCLUDING:
A. THE CLEANING AND HANDLING OF THE SIGN PANELS AND FRAMING MEMBERS.
B. THE APPLICATION OF THE ADHESIVE TAPE.
- WHEN RIVETS ARE USED TO ATTACH FRAMING MEMBERS, INSTALL 2 RIVETS IN EACH END AND THE BALANCE ON 8" MAXIMUM CENTERS.
- USE 3/16" DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061-T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061-T43 FOR HOT DRIVEN RIVETS.
- THE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.

WINDBEAM LOCATIONS FOR EACH SIGN SHAPE

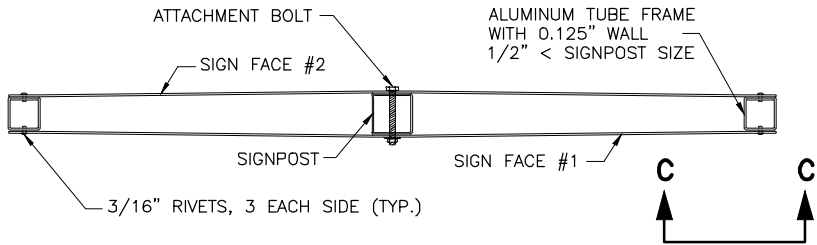
ELEVATION VIEW



SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM

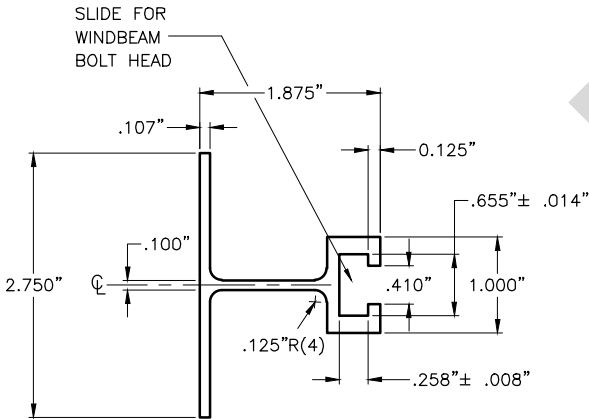


VIEW C - C

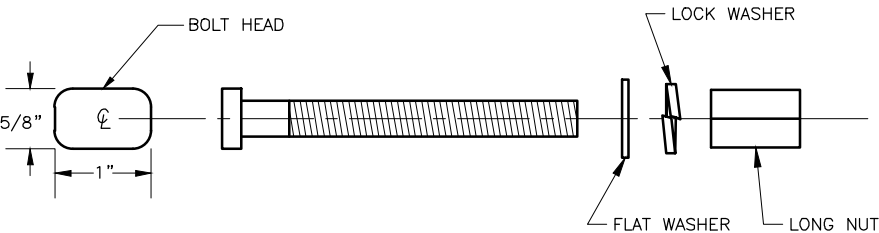


D3-1 STREET NAME SIGN FRAMING DETAIL

PLAN VIEW



SECTION B - B WINDBEAM CROSS SECTION

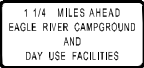


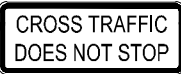
3/8" WINDBEAM BOLT AND LONG NUT

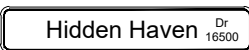


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION**

LIGHT SIGN FRAMING DETAILS

SIGN SUMMARY															
SHEET NO.	POST NO.	STATION	OFFSET	TYPE	LEGEND	SIZE (IN)		AREA (SF)	SIGN FACES	POSTS NO, SIZE & TYPE	FRAMED		CATEGORY		REMARKS
						WIDTH	HEIGHT				YES	NO	NEW	SALVAGE	
F1	S1	500+57.00	LT	D3-100		35	12	5.84	E/W	2.5" x 2.5" PT		X	X	X	MOUNT TWO SIGNS BACK TO BACK
				D3-100		47	8	5.22	N/S			X	X	X	MOUNT TWO SIGNS BACK TO BACK
				R1-1		30	30	6.25	N			X	X	X	
	S2	501+17.00	RT	D7-100		90	42	26.25	S	(2) 3" PT	X		X	X	
				D9-3		24	24	4	S			X	X	X	
	S3	501+39.00	RT	D9-105		24	24	4	S	2" x 2" PT		X	X	X	
				D9-301		24	6	1	S			X	X	X	
	S4	501+48.00	RT	D11-1		18	18	2.25	N	2" x 2" PT		X	X	X	BEHIND GUADRAIL. REFERENCE ALASKA STANDARD PLANS S-32.02
				D1-3b		30	18	3.75	N			X	X	X	
				D11-1		18	18	2.25	S			X	X	X	
				CUSTOM SIGN		18	6	0.75	S			X	X	X	
	S5	50+36.00	RT	R2-1		30	36	7.5	S	2" x 2" PT		X	X	X	BEHIND GUADRAIL. REFERENCE ALASKA STANDARD PLANS S-32.02
	S6	516+77.00	RT	CUSTOM SIGN		24	12	2	SW	2" x 2" PT		X	X	X	
	S7	523+05.00	LT	R2-1		30	36	7.5	NE	2" x 2" PT		X	X	X	

SIGN SUMMARY															
SHEET NO.	POST NO.	STATION	OFFSET	TYPE	LEGEND	SIZE (IN)		AREA (SF)	SIGN FACES	POSTS NO, SIZE & TYPE	FRAMED		CATEGORY		REMARKS
						WIDTH	HEIGHT				YES	NO	NEW	SALVAGE	
F2	S8	526+62.00	RT	D1-1b		30	6	1.25	SW	2" x 2" PT		X	X	X	
				R5-3		18	24	3	SW			X	X	X	
	S9	526+82.00	RT	W1-8L		18	24	3	SW	2" x 2" PT		X	X	X	
	S10	532+51.00	LT	W1-8L		18	24	3	NW	2" x 2" PT		X	X	X	
	S11	532+51.00	RT	W1-8R		18	24	3	SE	2" x 2" PT		X	X	X	
	S12	533+12.00	RT	D3-100		23	8	2.56	NW/SE	2.5" x 2.5" PT		X	X	X	MOUNT TWO SIGNS BACK TO BACK
				D3-100		52	12	8.66	NE/SW		X		X	X	MOUNT TWO SIGNS BACK TO BACK
				R1-1		30	36	7.5	SE			X	X	X	
				W4-4P		24	12	2	SE			X	X	X	
	S13	534+16.00	RT	W8-10		18	18	2.25	SW	2" x 2" PT		X	X	X	
				CUSTOM SIGN		12	9	0.75	SW			X	X	X	
	S14	537+04.00	RT	R2-1		30	36	7.5	SW	2" x 2" PT		X	X	X	
F3	S15	560+51.00	LT	I-3		36	36	9	NE	4" x 4" W		X	X	X	BEHIND GUADRAIL. REFERENCE ALASKA STANDARD PLANS S-32.02
	S16	562+84.00	RT	W11-2		30	30	6.25	SW	2" x 2" PT		X	X	X	
				W16-9P		24	12	2	SW			X	X	X	

SIGN SUMMARY															
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						WIDTH	HEIGHT				YES	NO	NEW	SALVAGE	
F3	S17	565+37.02	LT	W11-2		30	30	12.5	NE/SW	N/A		X	X	X	MOUNT ON LUMINAIRE
				W16-7PL		24	12	2	NE			X	X	X	
				W16-7PR		24	12	2	SW			X	X	X	
	S18	565+53.00	RT	W11-2		30	30	12.5	NE/SW	2.5" x 2.5" PT		X	X	X	
				W16-7PR		24	12	2	NE			X	X	X	
				W16-7PL		24	12	2	SW			X	X	X	
	S19	566+29.00	RT	D3-100		23	8	2.56	NW/SE	2.5" x 2.5" PT		X	X	X	MOUNT TWO SIGNS BACK TO BACK
				D3-100		62	12	10.34	NE/SW		X		X	X	MOUNT TWO SIGNS BACK TO BACK
				W4-4P		24	12	2	SE			X	X	X	
				R1-1		30	30	6.25	SE			X	X	X	
	S20	568+12.00	LT	W11-2		30	30	6.25	NE	2" x 2" PT		X	X	X	
				W16-7P		24	12	2	NE			X	X	X	
F4	S21	581+84.00	LT	R2-1		30	36	7.5	NE	2" x 2" PT		X	X	X	
	S22	584+44.00	RT	W3-1A		30	30	6.25	SW	2" x 2" PT		X	X	X	

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						WIDTH	HEIGHT				YES	NO	NEW	SALVAGE		
F4	S23	584+70.00	RT	W1-1R		48	48	16	SW	3.0" x 3.0" PT	X		X	X		
				W13-1		18	18	2.25	SW			X	X	X		
	S24	585+70.00	LT	W1-8R		18	24	3	SW	2" x 2" PT		X	X			
	S25	586+45.00	LT	W1-8R		18	24	3	SW	2" x 2" PT		X	X			
	S26	586+50.00	LT	W1-8L		18	24	3	NE	2" x 2" PT		X	X			
	S27	587+22.00	LT	W1-8R		18	24	3	SW	2" x 2" PT		X	X			
	S28	587+27.00	LT	W1-8L		18	24	3	E	2" x 2" PT		X	X			
	S29	587+98.00	LT	W1-8L		18	24	3	E	2" x 2" PT		X	X			
	S30	588+64.00	LT	D1-1b	 Eagle River	18	36	4.5	W	2" x 2" PT		X	X	X		
				R5-3		12	12	1	W			X	X	X		
	S31	588+86.00	RT	D3-100		35	12	5.84	N/S	2.5" x 2.5" PT		X	X	X	MOUNT TWO SIGNS BACK TO BACK	
				D3-100		34	8	3.78	E/W			X	X	X	MOUNT TWO SIGNS BACK TO BACK	
				R1-1		30	30	6.25	W			X	X	X		
	S32	588+91.00	RT	R3-17		30	24	5	N	2" x 2" PT		X	X	X		
				M4-100		30	12	2.5	N			X	X	X		
TOTAL:								281.55					58	52		
PAY ITEM QUANTITY:								282						52		
								615.0001						615.0007		

STATE OF ALASKA

40th

PLANS IN HAND

JASON C. KEWIN

CE-120407

REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES INC.
3230 C ST, SUITE 201, ANCHORAGE AK
99503 (907) 272-5451
CERTIFICATE OF AUTHORIZATION
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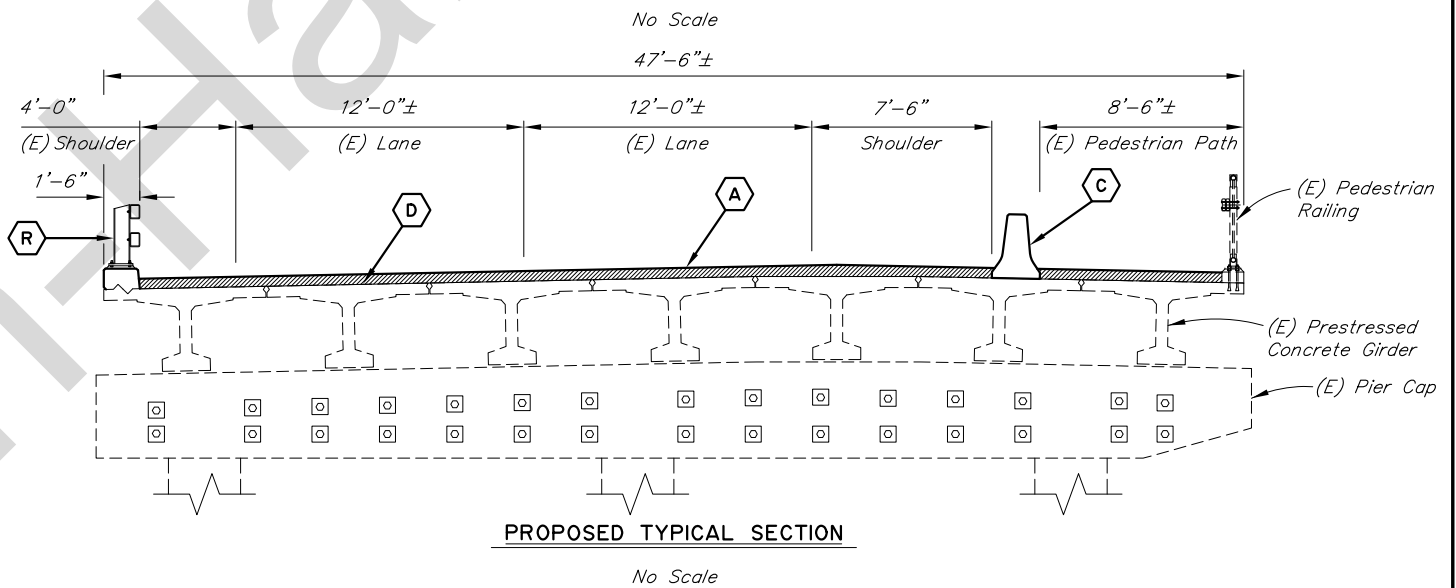
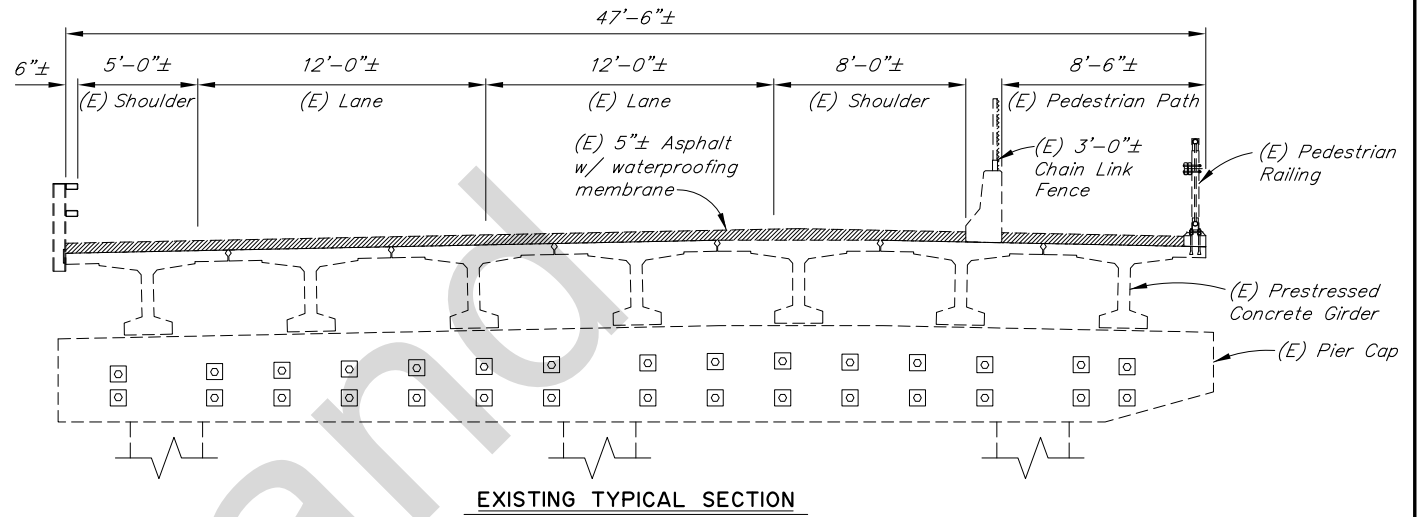
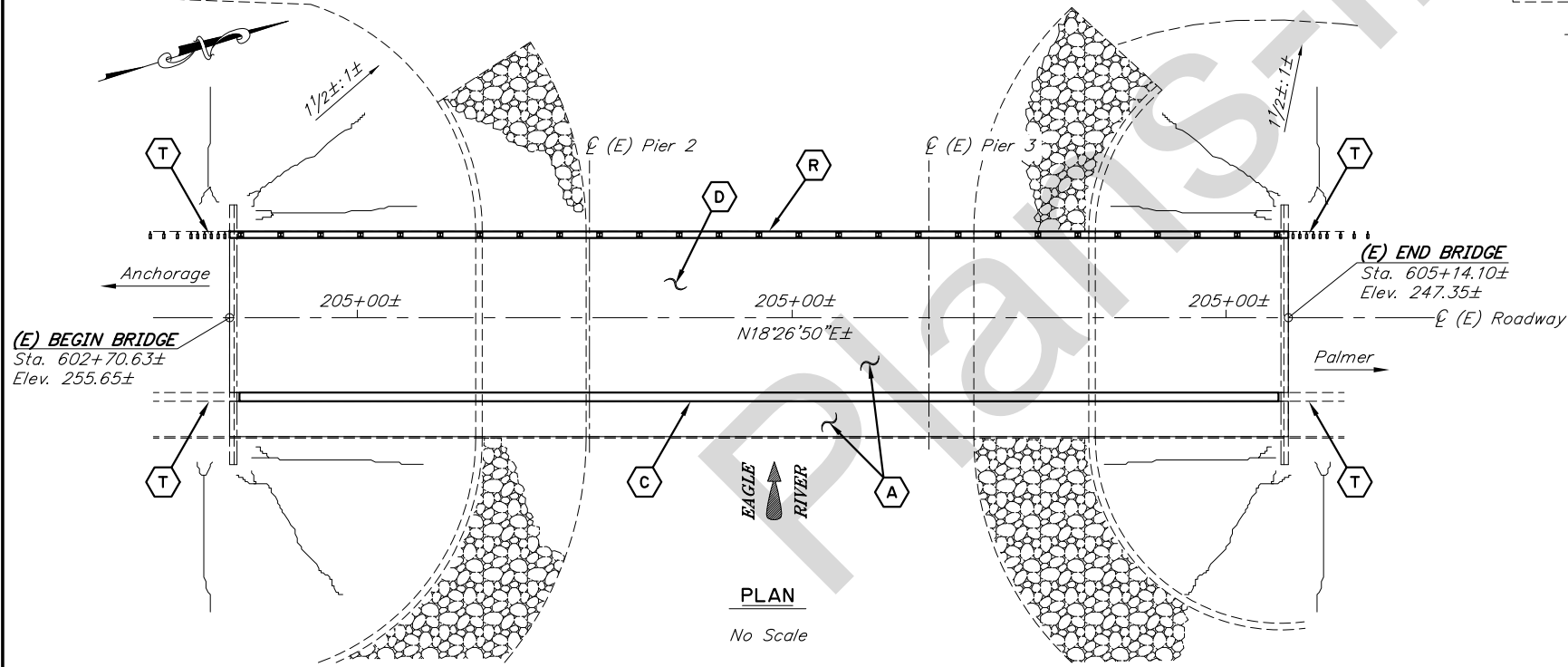
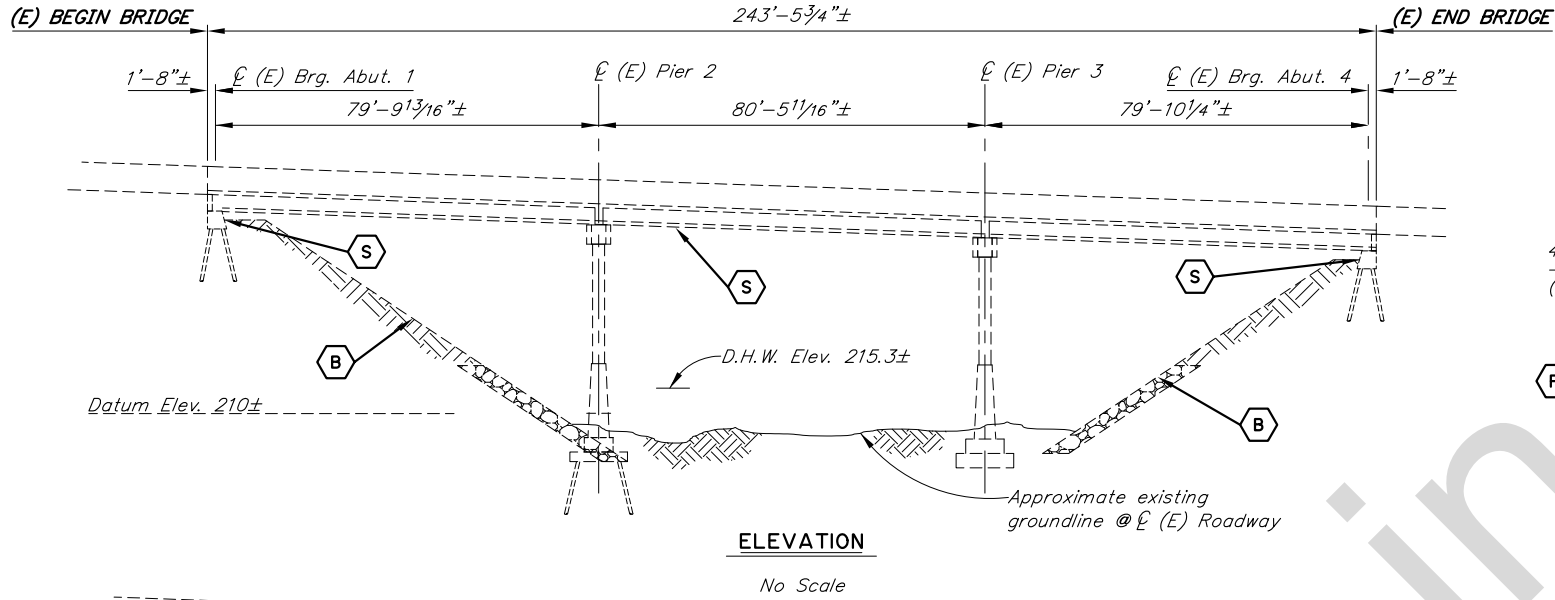
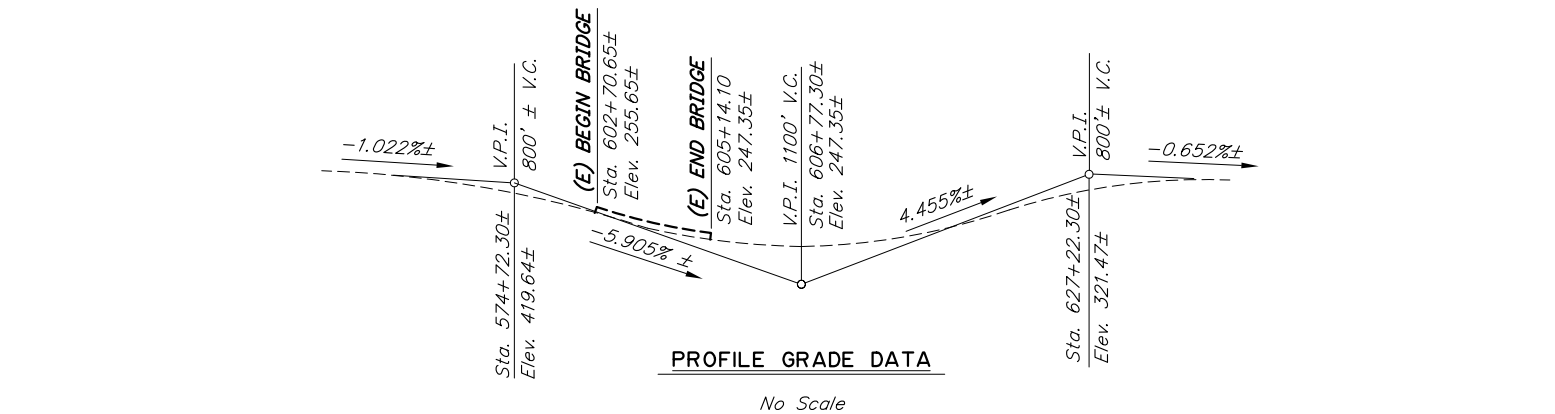
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AMATS: VFW ROAD: EAGLE RIVER
LOOP TO EAGLE RIVER ROAD
PAVEMENT PRESERVATION

SIGN SUMMARY

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00732	2023	N1	N8



LEGEND	
A	- Replace (E) Asphalt w/ waterproofing membrane and Asphalt Overlay
B	- Place Riprap
C	- Replace Concrete Bridge Barrier
D	- Bridge Deck Repair
R	- Replace Steel Bridge Rail
S	- Concrete Spall Repair
T	- Replace Transition Rail

BRIDGE DRAWING INDEX	
TITLE	DWG. NO.
GENERAL LAYOUT	1
GENERAL NOTES	2
RIPRAP LAYOUT	3
DECK REPAIR DETAILS	4
EXISTING RAIL DETAILS	5
PROPOSED STEEL BRIDGE RAIL	6
PROPOSED CONCRETE BRIDGE BARRIER	7
DECK DRAIN DETAILS	8

NOTES:

(E) = Existing

----- = Existing

———— = Proposed

- ① Approximate location of Bridge Number Plate.
2. Verify controlling field dimensions before ordering or fabricating any material

PRELIMINARY PLAN

REHABILITATION

DESIGNED BY: Sara Manning	CHECKED: Checker	LAYOUT BY: Sara Manning	CHECKED BY: Checker
DRAWN BY: Javier De Leon	CHECKED: Sara Manning	SPECIFICATIONS BY: Sara Manning	P S & E COMPARED: Checker
QUANTITIES BY: Sara Manning	CHECKED: Checker	APPROVAL RECOMMENDED BY: Leslie Daugherty	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

EAGLE RIVER NORTHBOUND
GLENN HIGHWAY
GENERAL LAYOUT



BRIDGE NO. 535
DWG. NO. 1

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00732	2023	N2	N8

ESTIMATE OF QUANTITIES						
ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL QUANTITY
501.2001.0001	Spall Repair	CS	SF	All Req'd	All Req'd	All Req'd
507.0004.0000	Concrete Bridge Barrier	LF	LF	---	244	244
507.2000.0000	Steel Bridge Railing Replacement, 2-Tube	LF	LF	---	244	244
508.0001.0000	Waterproofing Membrane, Spray-Applied	LS	SF	---	10,490	10,490
510.2001.0000	Bridge Deck Repair	CS	SF	---	525	525
606.0016.0000	Transition Rail	EA	EA	---	4	4
611.0001.0001	Riprap, Class I	CY	CY	210	---	210

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

PRELIMINARY PLAN

GENERAL NOTES

DESIGN:..... AASHTO LRFD Bridge Design Specifications, 2020 Edition, with latest interim specifications.

LIVE LOAD:..... HL-93

SEISMIC PARAMETERS:..... AASHTO 7% probability of exceedance in 75 years.

REINFORCEMENT:..... ASTM A706, Grade 60, Fy = 60,000 psi
Space reinforcement evenly unless otherwise noted.

CONCRETE:.....Class A-A Concrete unless otherwise noted, f'c = 5000 psi

STRUCTURAL STEEL:.....ASTM A709, Grade 36T3, Fy = 36,000 psi
Galvanize structural steel in accordance with AASHTO M111 unless shown otherwise.

Existing stations, elevations and dimensions are based on as-built plans, and those plans may not show existing dimensions and conditions. Where dimensions of the proposed work depend on the existing bridge dimensions, field-verify the controlling dimensions and adjust proposed dimensions of the work to fit existing conditions.

ABBREVIATIONS:

C	= centerline	Elev.	= elevation	n.f.	= near face
P	= plate	e.a.	= each face	No.	= number
&	= and	e.w.	= each way	o.c.	= on center
@	= at	Ext.	= exterior	O.H.W.	= ordinary high water
Ø	= diameter	F	= fixed	pcf	= pounds per cubic foot
±	= approximate	f.f.	= front/air face	psf	= pounds per square foot
Abut.	= abutment	f'c	= specified concrete compressive strength	psi	= pounds per square inch
Approx.	= approximate	Ft.	= feet	R	= radius
Alt.	= alternating	Fy	= yield stress	R.O.W.	= right of way
b.f.	= back/dirt face	Galv.	= galvanize	RT.	= right
bot.	= bottom	H.S.	= high strength	S.I.P.	= stay-in-place
Br.	= bridge	Hwy.	= highway	spcs.	= space, spaces
btwn.	= between	ID	= internal diameter	Sta.	= station
Brg.	= bearing	Int.	= interior	SF	= square feet
C.G.	= center of gravity	Jt.	= joint	SY	= square yard
C.I.P.	= cast in place	K	= kips	Std.	= standard
CJP	= complete joint penetration	ksf	= 1000 pounds per square foot	Symm.	= symmetric
Clr.	= clear, clearance	ksi	= 1000 pounds per square inch	Typ.	= typical
CMP	= corrugated metal pipe	LBS or lb	= pounds	UT	= ultrasonic testing
CF	= cubic feet	LF	= linear foot	V.P.C.	= point of vertical curve
CY	= cubic yard	LS	= lump sum	V.P.I.	= point of vertical intersection
Dia.	= diameter	LT.	= left	V.P.T.	= point of vertical tangent
Dwg.	= drawing	max.	= maximum	w/	= with
E	= expansion	min.	= minimum		
(E)	= existing	MSE	= mechanically stabilized earth		
EA	= each				

DESIGNED BY:	Sara Mannng	CHECKED:	Checker
DRAWN BY:	Javier De Leon	CHECKED:	Sara Mannng
QUANTITIES BY:	Sara Mannng	CHECKED:	Checker

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

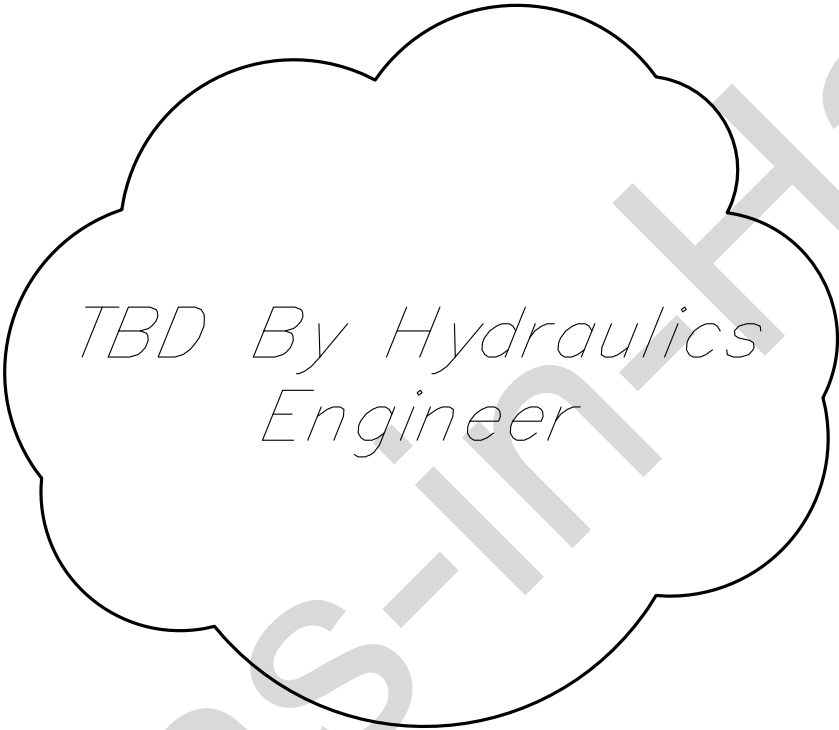
EAGLE RIVER NORTHBOUND
GLENN HIGHWAY
GENERAL NOTES



BRIDGE NO. 535
DWG. NO. 2

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00732	2023	N3	N8



PRELIMINARY PLAN

DESIGNED BY: Sara Mannng	CHECKED: Checker
DRAWN BY: Javier De Leon	CHECKED: Sara Mannng
QUANTITIES BY: Sara Mannng	CHECKED: Checker

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

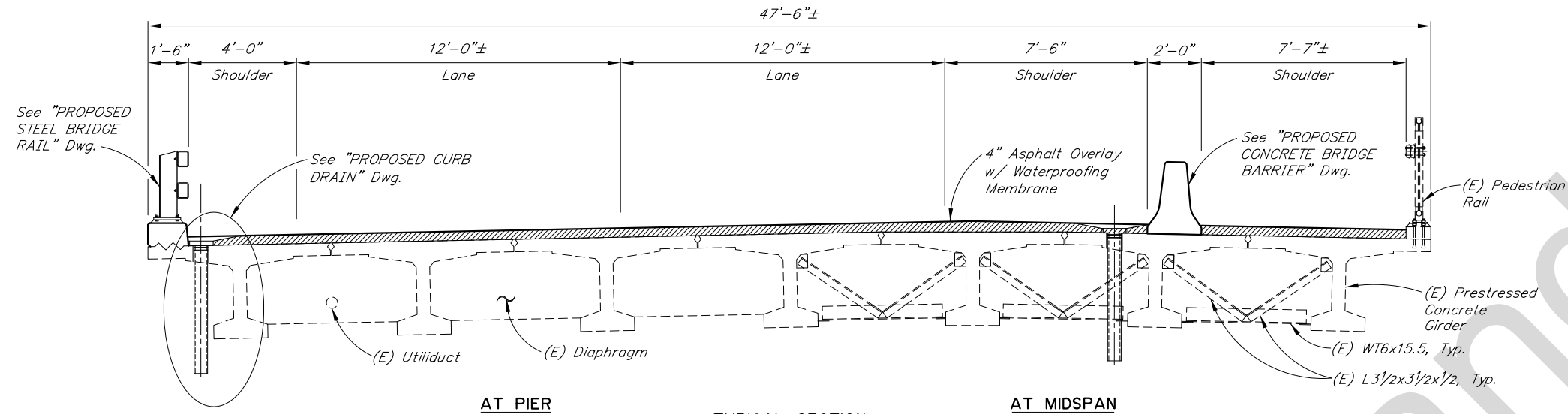
EAGLE RIVER NORTHBOUND
GLENN HIGHWAY
RIPRAP LAYOUT



BRIDGE NO. 535
DWG. NO. 3

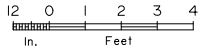
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00732	2023	N4	N8

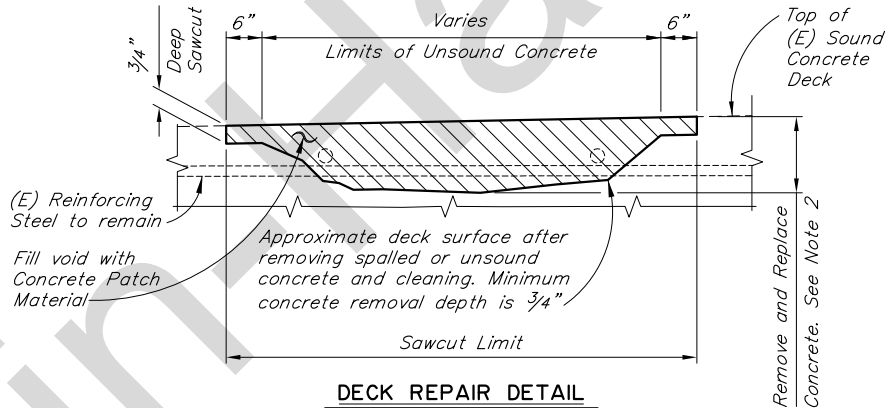


AT PIER

TYPICAL SECTION

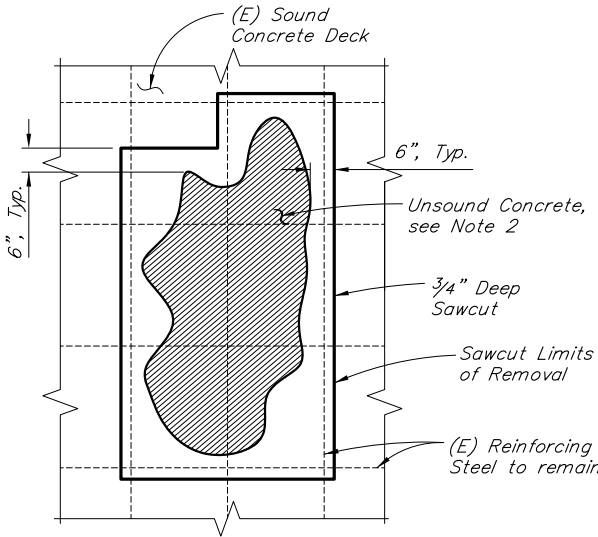


AT MIDSPAN



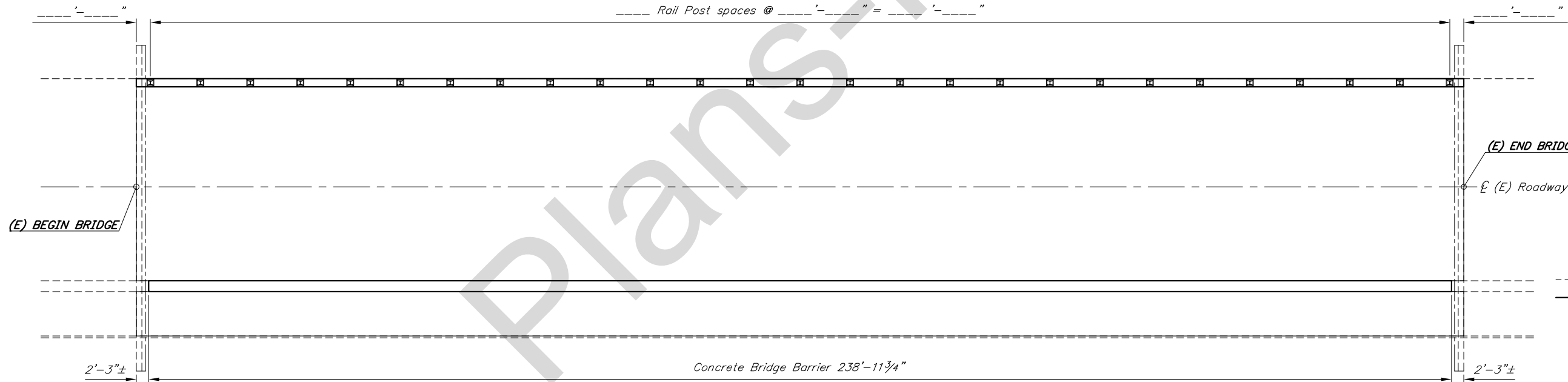
DECK REPAIR DETAIL

No Scale

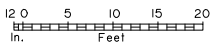


CONCRETE DECK REPAIR - PLAN VIEW

No Scale



DECK PLAN



PRELIMINARY PLAN

NOTES:

- (E) = Existing
- = Existing
- = Proposed

1. Verify controlling field dimensions before ordering or fabricating any material.
2. Remove unsound concrete, expose & preserve existing reinforcing steel. Depth of concrete removal varies. Chip to limits of sound concrete. Chip to 3/4" below exposed reinforcing steel.

DESIGNED BY: Sara Mannng	CHECKED: Checker
DRAWN BY: Javier De Leon	CHECKED: Sara Mannng
QUANTITIES BY: Sara Mannng	CHECKED: Checker

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

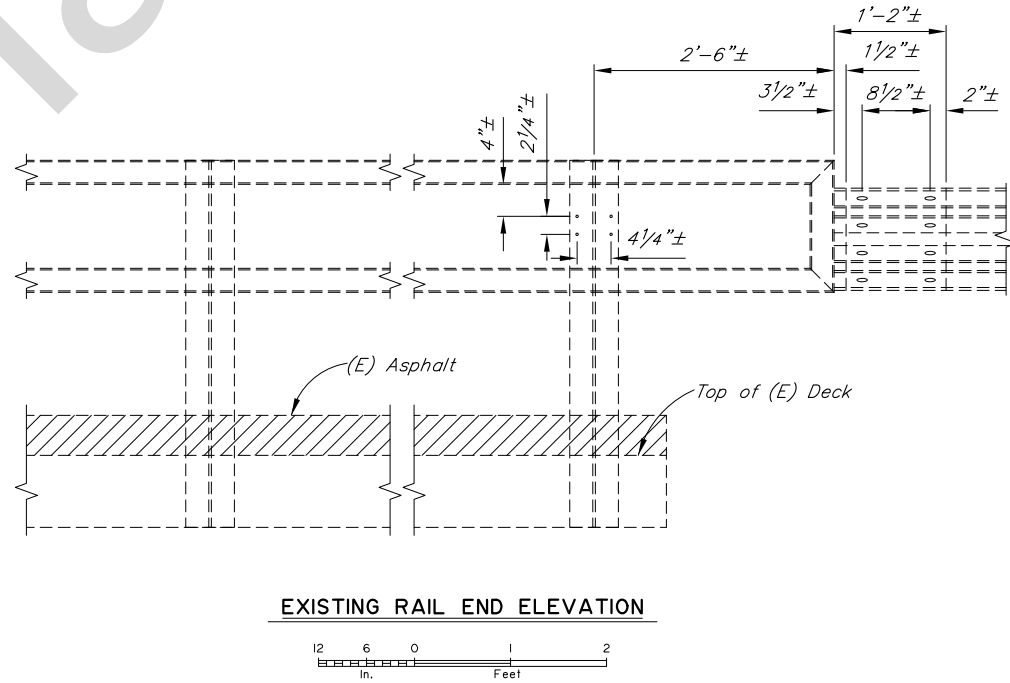
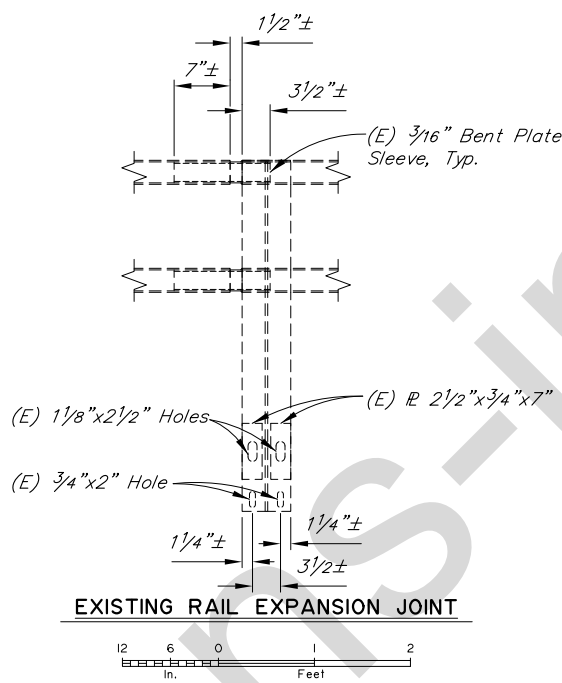
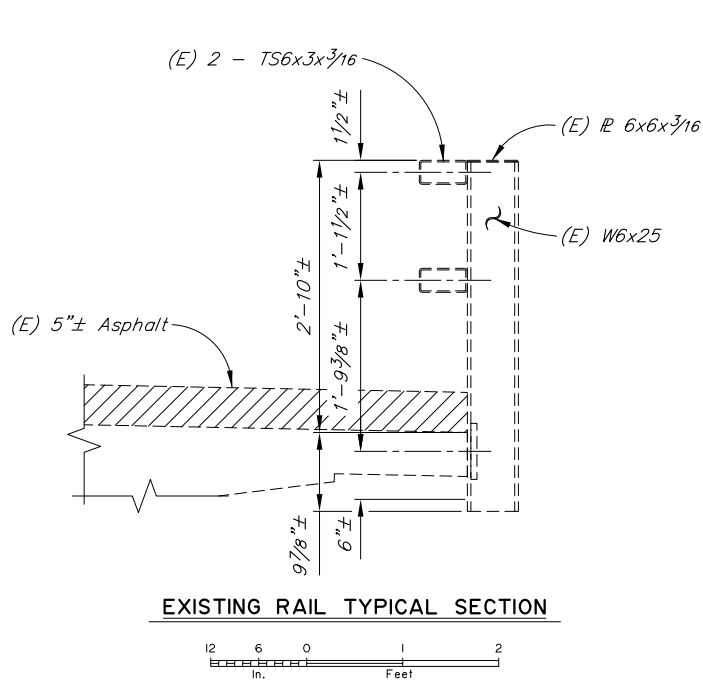
EAGLE RIVER NORTHBOUND
GLENN HIGHWAY
DECK REPAIR DETAILS



BRIDGE NO. 535
DWG. NO. 4

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00732	2023	N5	N8



NOTES:

- (E) = Existing
- = Existing
- = Proposed
1. Verify controlling field dimensions before ordering or fabricating any material.

PRELIMINARY PLAN

DESIGNED BY: Sara Mannng	CHECKED: Checker
DRAWN BY: Javier De Leon	CHECKED: Sara Mannng
QUANTITIES BY: Sara Mannng	CHECKED: Checker

REHABILITATION

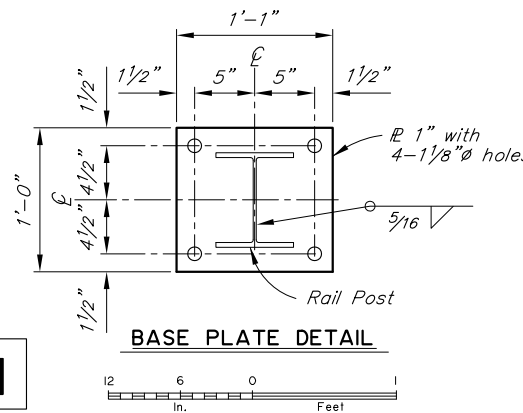
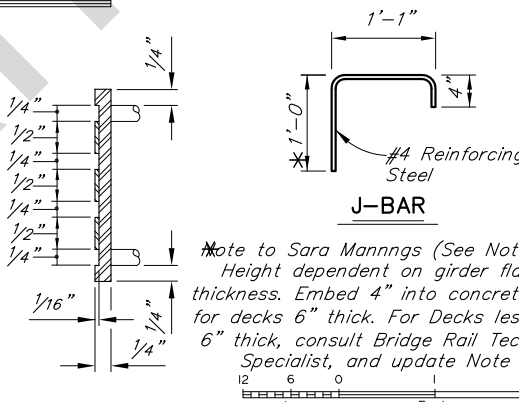
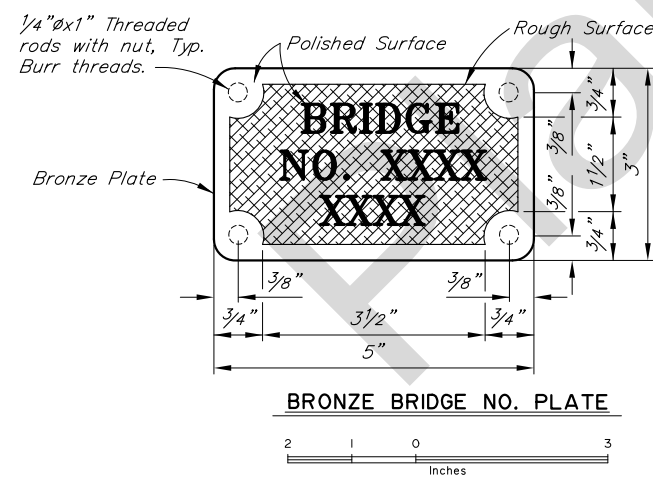
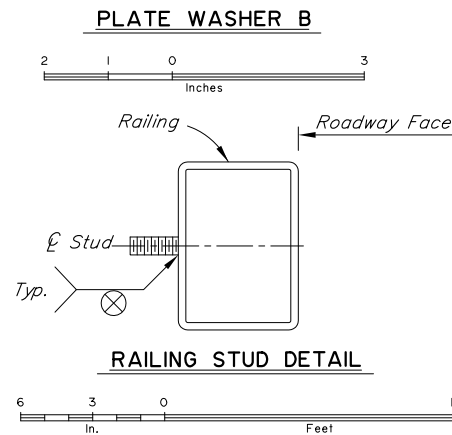
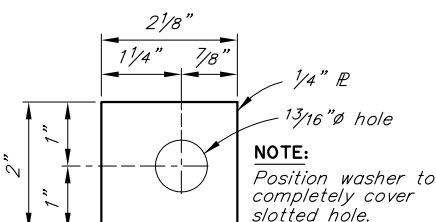
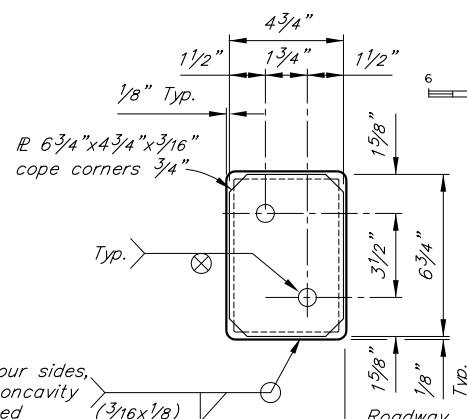
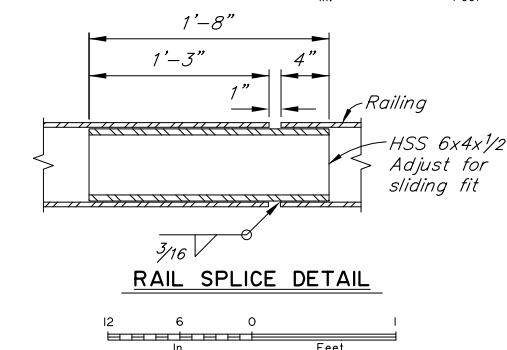
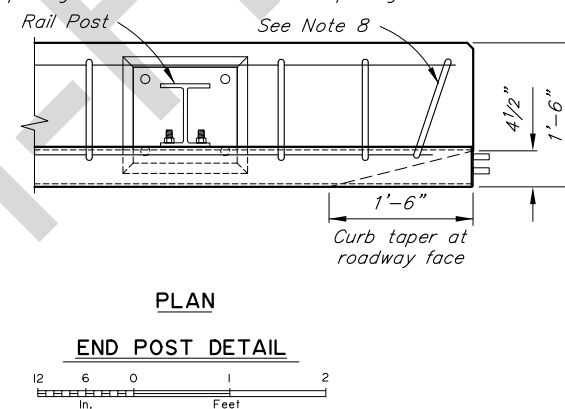
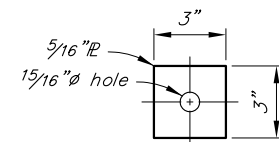
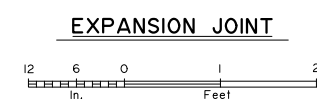
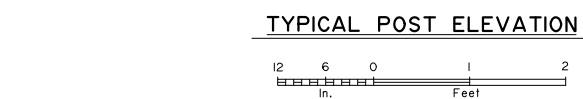
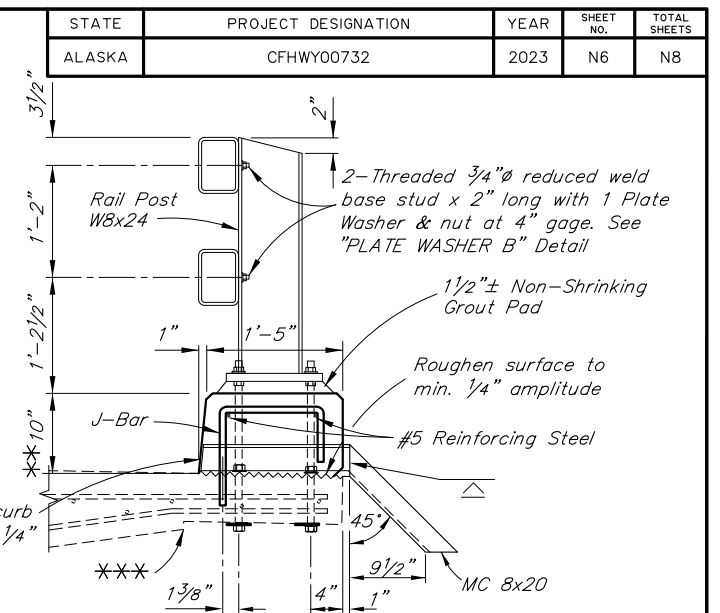
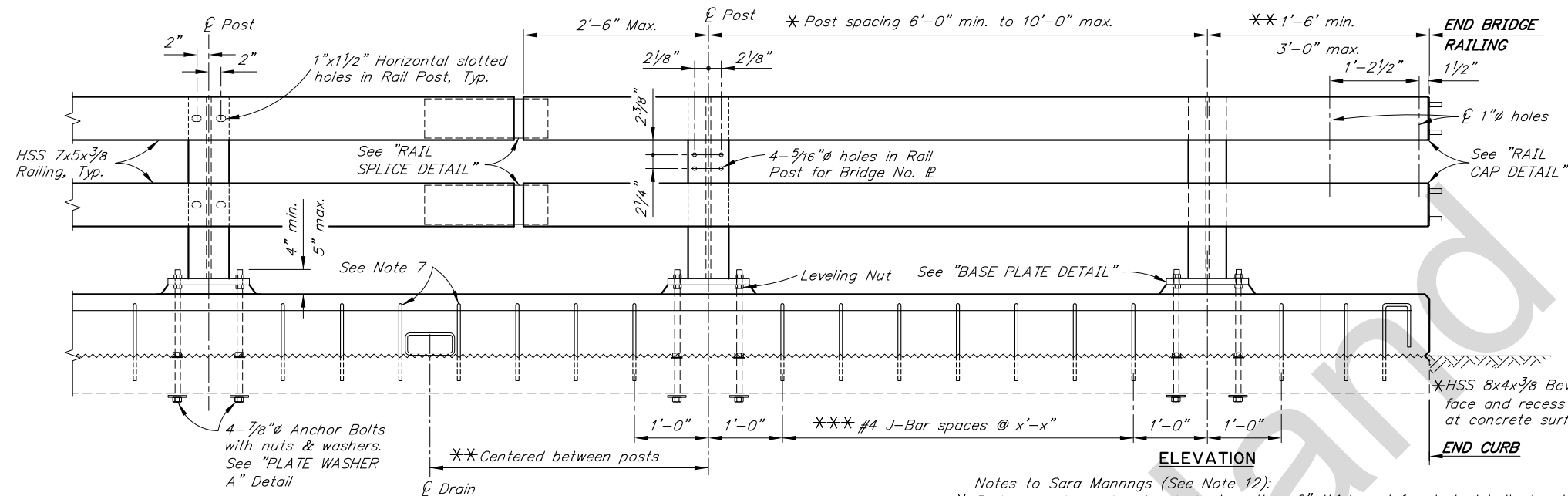
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

EAGLE RIVER NORTHBOUND
GLENN HIGHWAY
EXISTING RAIL DETAILS



BRIDGE NO. 535

DWG. NO. 5



Notes to Sara Mannings (See Note 12):

- * Reduce post spacing for decks less than 6" thick and for decked bulb-tee top flanges that don't meet Table 14-3 of the Alaska Bridges and Structures Manual. Replace with dimensions.
- ** Replace with dimensions.
- *** 1'-4" max. spacing. Dimension and call-out spacing.

top
manul.

TYPICAL SECTION

Notes to Sara Mannings (See Note 12):

- * Number of drains and type of drains, to be designed by Engineer and Hydraulic Engineer. See Dwg. No. 2 for deck through drain (preferred drain).*
- ** Curb height varies based on asphalt thickness. Driving surface to top of railing shall be 38" ± 1".*
- *** Use sloped washer when anchor bolts land on sloped portion of top flange. Use step washer or built-up slotted washer when top flange width is short and anchor bolts land at flange step.*

NOTES:

In.	Feet
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12

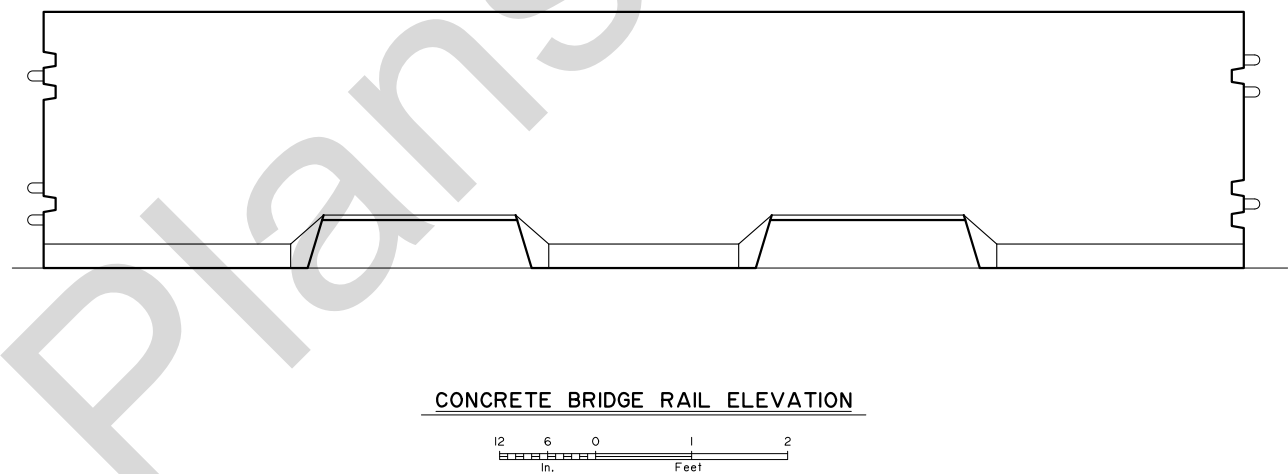
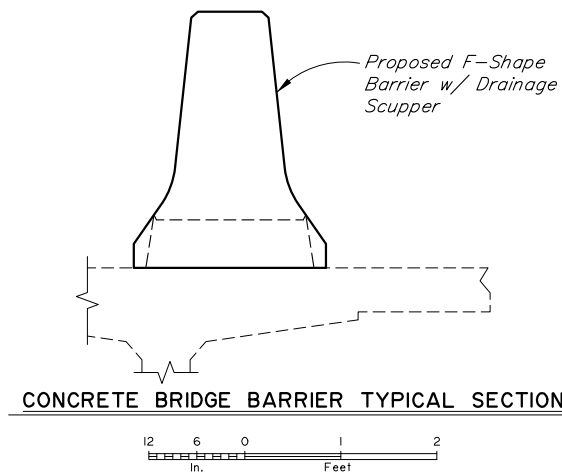
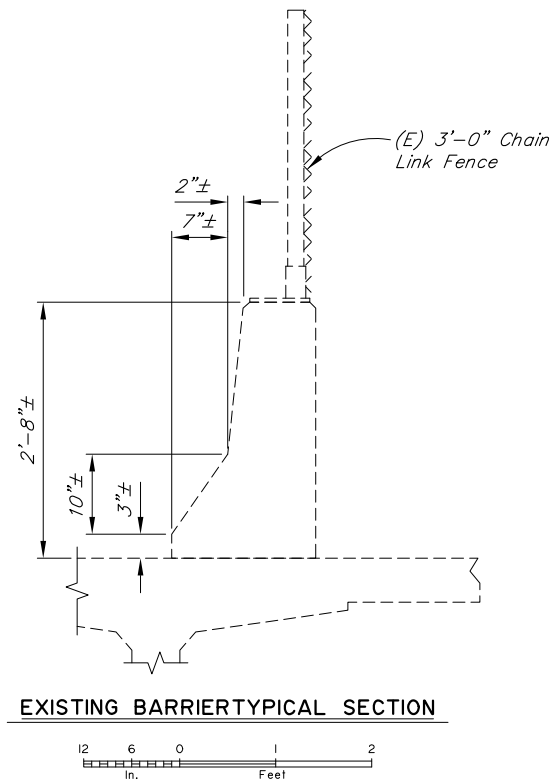
1. Remove existing bridge number plates. Install bridge number plates onto new steel bridge railing posts. Use studs and nuts that conform to UNS C65100 or UNS C65500. Braze $\frac{1}{4}" \varnothing$ threaded rod to back of plate with nut – 4 required. Use tampo proof nuts.
2. Locate bridge number plates on right hand side of approaching traffic near each end as shown on "GENERAL LAYOUT" Dwg. (2 total).
3. Provide railing expansion joints at 50'-0" maximum intervals. Railing shall be continuous over 2 posts minimum. Railing expansion joints are required in rail panels that span bridge expansion joints.
4. See "RAILING LAYOUT AND TYPICAL SECTION" Dwg. for rail post spacing.
5. Install bridge rail posts plumb.
6. Core and bond anchor bolts through the existing deck and existing rail hardware. Drill and bond J-Bars 4" into the existing deck. Adjust J-Bar spacing to avoid existing reinforcing and existing rail hardware.
7. Adjust J-Bar spacing as needed to avoid HSS drains.
8. Adjust reinforcing to accommodate curb taper.
9. Contractor shall verify all controlling field dimensions before ordering or fabricating any material.
10. Use grout with a minimum 24-hour $f'c$ of 3,000 psi in single placement.
11. Conform to G-32.03 "MASH BRIDGE RAIL THRIE BEAM TRANSITION" Dwg. of the Standard plans for Thrie Beam Transition details.
12. "Note to Sara Mannings" throughout plan sheet are for information purposes only and should be deleted during design.

PRELIMINARY PLAN

DESIGNED BY: Sara Manning	CHECKED: Checker	REHABILITATION	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975	EAGLE RIVER NORTH BOUND GLENN HIGHWAY PROPOSED STEEL BRIDGE RAIL	 BRIDGE NO. 535 DWG. NO. 6
DRAWN BY: Javier De Leon	CHECKED: Sara Manning				
QUANTITIES BY: Sara Manning	CHECKED: Checker				

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00732	2023	N7	N8



- NOTES:**
- (E) = Existing
 - = Existing
 - = Proposed
 - 1. Verify controlling field dimensions before ordering or fabricating any material.

PRELIMINARY PLAN

DESIGNED BY: Sara Mannng	CHECKED: Checker
DRAWN BY: Javier De Leon	CHECKED: Sara Mannng
QUANTITIES BY: Sara Mannng	CHECKED: Checker

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

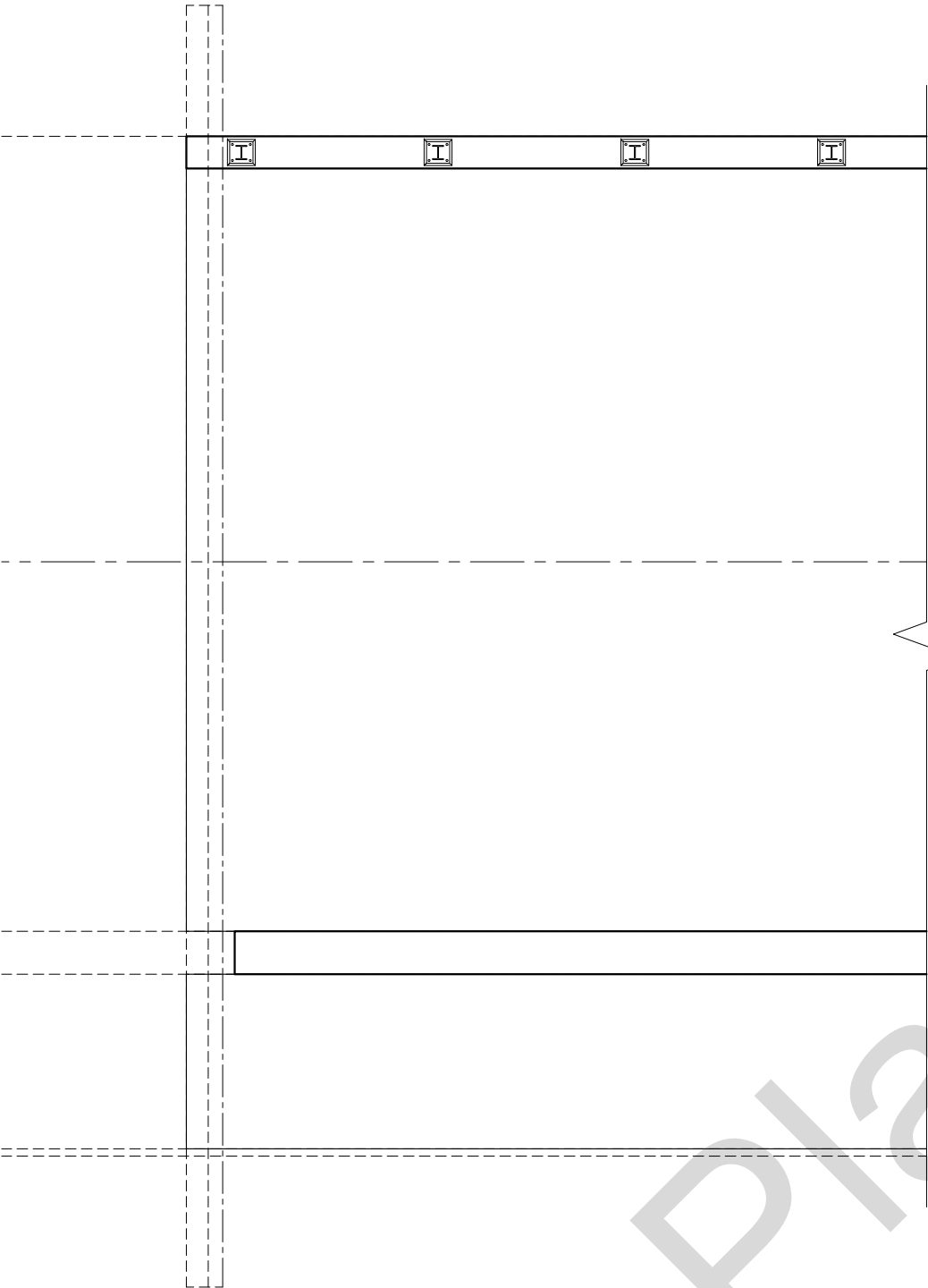
EAGLE RIVER NORTHBOUND
GLENN HIGHWAY
PROPOSED CONCRETE BRIDGE RAIL



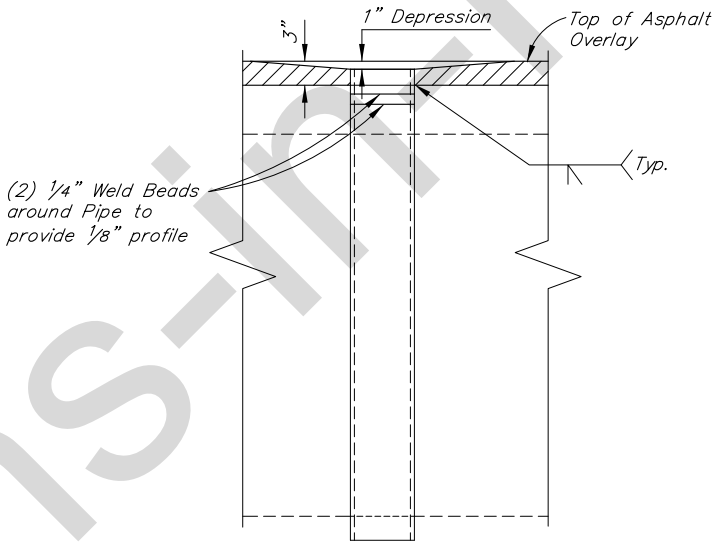
BRIDGE NO. 535
DWG. NO. 7

C:\Users\jdaleon\AppData\Local\Temp\AcPublish_4824\535-DRAIN Thu, Jun/29/23 04:42pm

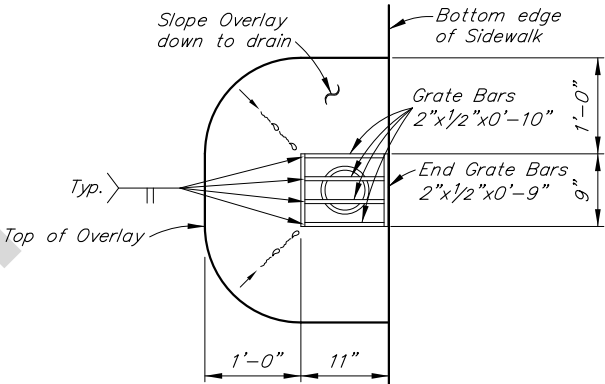
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00732	2023	N8	N8



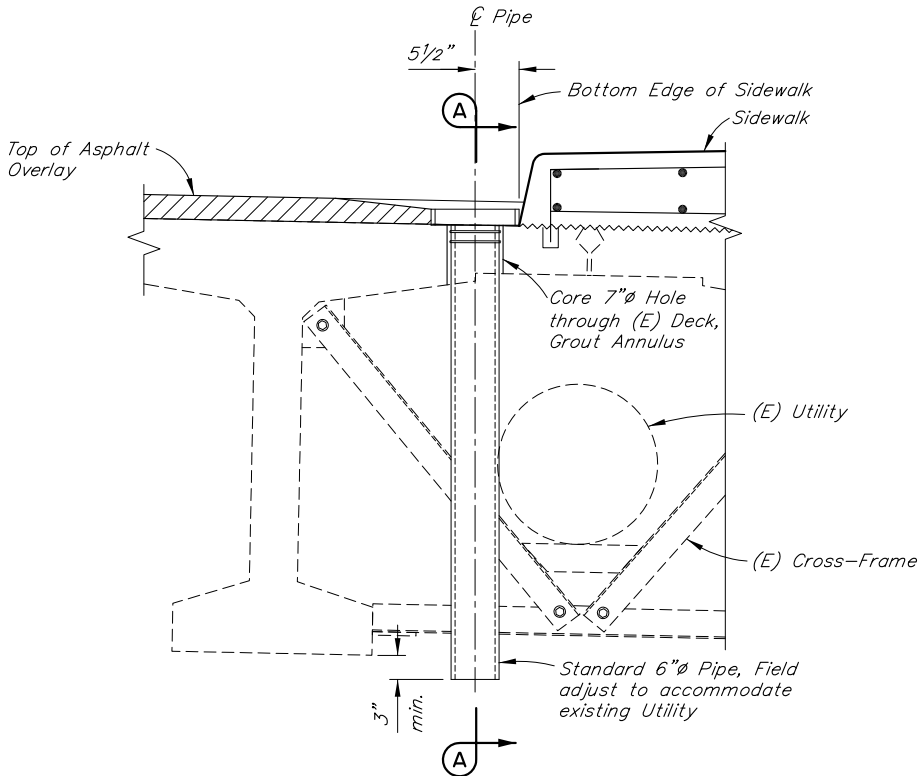
PARTIAL DECK PLAN



SECTION A-A



PLAN



DRAIN DETAILS

DECK DETAILS



NOTES:

- (E) = Existing
- = Existing
- = Proposed
- 1. Verify controlling field dimensions before ordering or fabricating any material.

PRELIMINARY PLAN

DESIGNED BY: Sara Mannng	CHECKED: Checker
DRAWN BY: Javier De Leon	CHECKED: Sara Mannng
QUANTITIES BY: Sara Mannng	CHECKED: Checker

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
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907-465-2975

EAGLE RIVER NORTHBOUND
GLENN HIGHWAY
DECK DRAIN DETAILS



BRIDGE NO. 535
DWG. NO. 8