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STATE OF ALASKA

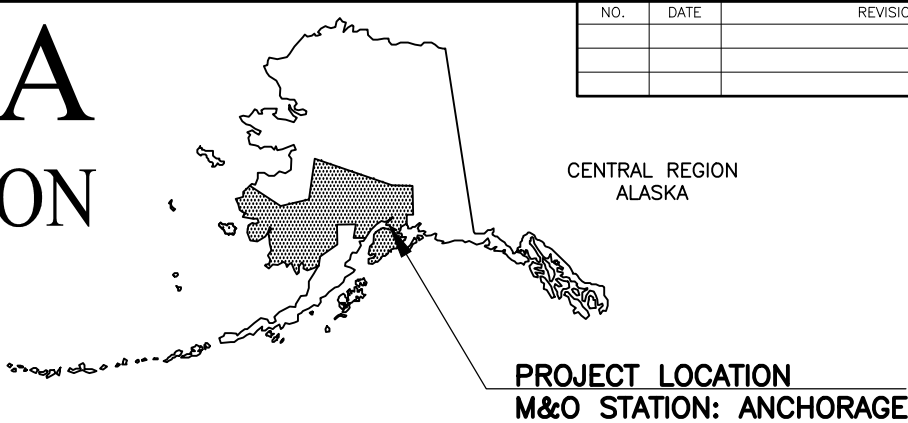
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

SEWARD HIGHWAY, MCHUGH CREEK TURN LANE

PROJECT NO. CSHWY01279

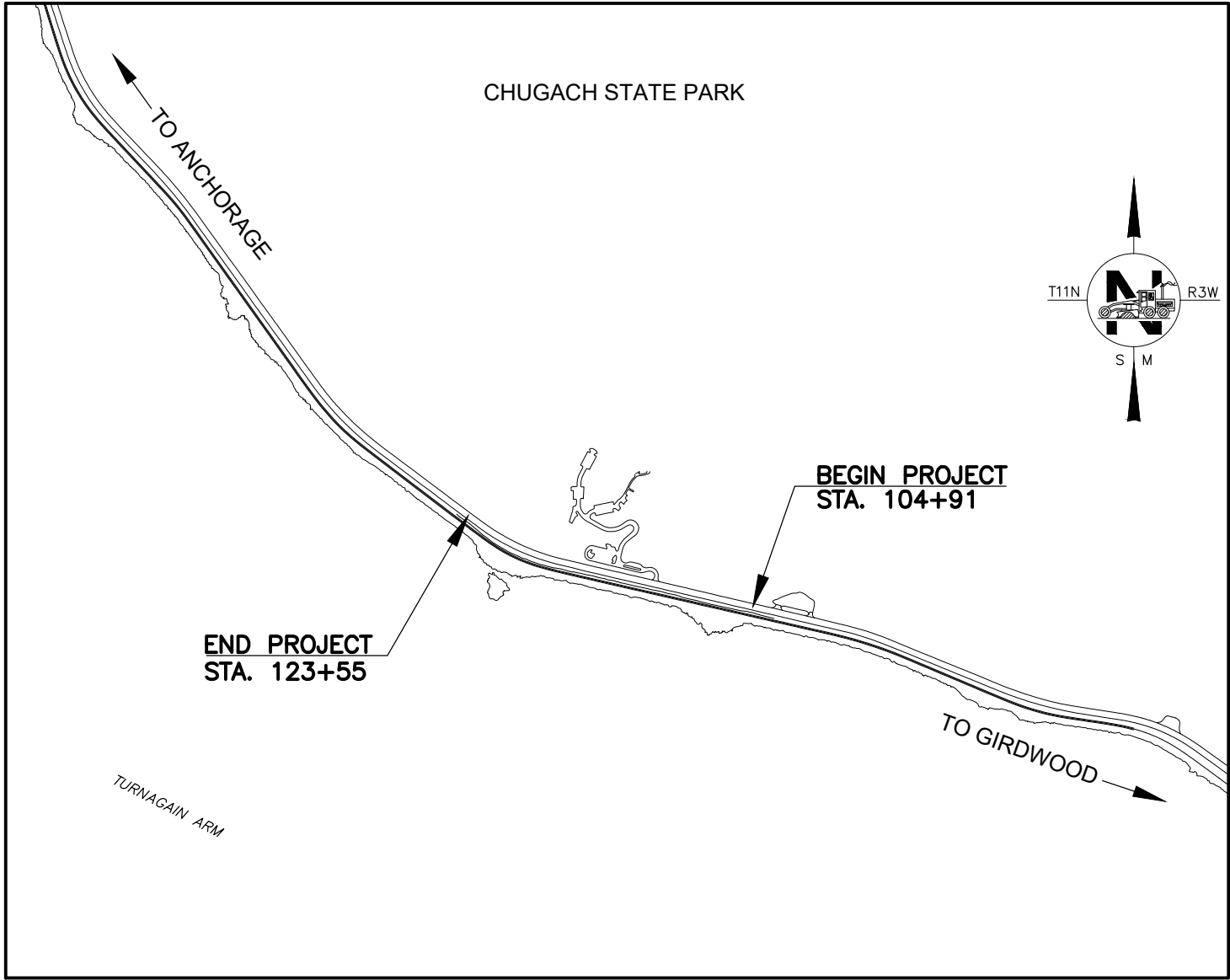
GRADING, DRAINAGE, PAVING, GUARDRAIL,
SIGNING, AND STRIPING



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	CSHWY01279	2025	A1	A4
ROUTE ID			1020000X000		MILEPOINT	110.357 – 110.804	
LATITUDE			61.016194		LONGITUDE	–149.732289	

PROJECT SUMMARY		
ROADWAY	WIDTH	LENGTH
SEWARD HIGHWAY MP 111.5–112.0	40 FT	0.35 MILES

DESIGN DESIGNATIONS	
	SEWARD HIGHWAY
FUNCTIONAL CLASS	INTERSTATE
AADT (2023)	8230
DESIGN SPEED (V) (MPH)	55
DHV (2023)	1259
T–PERCENT COMMERCIAL TRUCKS (%)	7.32
D–DIRECTIONAL DISTRIBUTION (%)	40 \ 60



95% REVIEW
MAY 2025

PLANS DEVELOPED BY: HDR, INC.

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

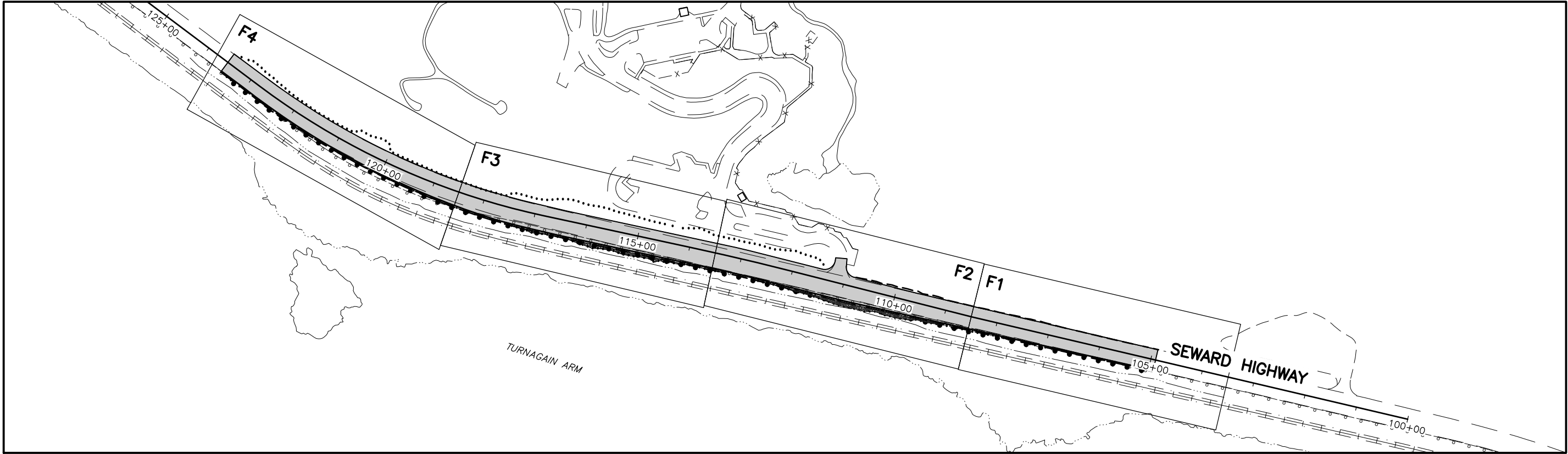
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DATE 5/29/2025 TIME 11:25 AM

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	CSHWY01279	2025	A2	A4



GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT-OF-WAY, TEMPORARY CONSTRUCTION EASEMENTS, AND TEMPORARY CONSTRUCTION PERMITS. NO EXCESS MATERIAL SHALL BE DISPOSED OF WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
- THE RIGHT-OF-WAY LINES SHOWN WERE TAKEN FROM PLAT 2018-38. THE RIGHT-OF-WAY LINES WERE INSERTED INTO THE PLANS USING A COMMON COORDINATE SYSTEM.
- 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.
- ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATE METHOD APPROVED BY THE ENGINEER.
- CLEARING LIMITS SHALL BE 5 FEET BEYOND SLOPE CATCH POINTS OR 1 FEET INSIDE THE RIGHT-OF-WAY LINE, WHICHEVER IS LESS. IN WETLAND AREAS, DO NOT CLEAR BEYOND THE SLOPE STAKE CATCH POINT UNLESS OTHERWISE SHOWN ON THE PLANS.
- PLACE 4" TOPSOIL AND SEED ON ANY AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.
- THE ALASKA RAILROAD CORPORATION'S (ARRC'S) PROPERTY EXTENDS, ON BOTH SIDES OF THE TRACK, APPROXIMATELY 100 FEET FROM THE CENTER OF THE RAILROAD TRACKS. CONTRACTOR WORK IN ARRC PROPERTY IS BY PERMIT. RIGHT-OF-WAY SHOWN ON THE PLANS INCLUDES ARRC PERMIT AREA.

SIGNING & STRIPING NOTES:

- ALL STATION LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN POST TYPES IN THE SIGN SUMMARY SHEETS.
 - PT MEANS A PERFORATED STEEL TUBE.
 - T MEANS A SQUARE STEEL TUBE.
 - P MEANS A ROUND STEEL PIPE.
 - W MEANS A WIDE FLANGE BEAM.
 - POPL MEANS A POLE PLATE INSTALLED PER ITS ALASKA STANDARD PLAN S-23.
- FABRICATE ALL SIGNS FROM 0.125" THICK ALUMINUM SHEETING, UNLESS STATED ELSEWHERE.
- FOR SIGNS SUPPORTED BY MULTIPLE POSTS, FABRICATE THE POSTS WITH THEIR TOPS LEVEL WITH ONE ANOTHER.
- 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.
- 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.
- 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.
- 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.
- FOR ALL FINAL PAVEMENT MARKINGS USE METHYLMETHACRYLATE MATERIALS. LONGITUDINAL, TRANSVERSE AND SYMBOL MARKINGS SHALL BE INLAID AND GORE STRIPES SHALL BE SURFACE APPLIED AS SPECIFIED IN SECTION 670 OF THE SPECIFICATIONS.
- DIMENSIONS REFER TO THE CENTER OF STRIPE AND THE EDGE OF PAVEMENT.
- 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.
- 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.

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, C-06.00,
E-09.00,
G-00.05, G-05.11S, G-10.21, G-11.01,
I-81.00,
M-13.01, M-16.01, M-25.00,
S-00.12, S-05.02, S-30.05, S-31.02, S-32.02,
T-06.00, T-20.04, T-21.04, T-22.04, T-25.10

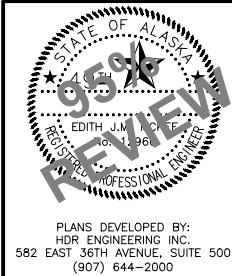
ABBREVIATIONS:

ASP	ALASKA STANDARD PLAN	MP	MILEPOST
ATM	ALASKA TRAFFIC MANUAL	MPT	MILEPOINT
ELEV	ELEVATION	SY	SQUARE YARD
FT	FEET		
HMA	HOT MIX ASPHALT		
IN	INCH		
LF	LINEAR FEET		

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.

INDEX	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SHEET LAYOUT, INDEX, AND GENERAL NOTES
A3	LEGEND
A4	SURVEY CONTROL SHEET
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1	SUMMARY TABLES
E1-E2	DETAIL SHEETS
F1-F4	PLAN AND PROFILE SHEETS
H1-H7	ILLUMINATION, SIGNALIZATION, SIGNING, AND STRIPING



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE**

**SHEET LAYOUT, INDEX,
AND GENERAL NOTES**

PLANS DEVELOPED BY:
HDR ENGINEERING INC.
582 EAST 36TH AVENUE, SUITE 500
(907) 644-2000

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
1" = 1'

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DRAWING LOCATION

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		
DIRECTIONAL 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		

TOPOGRAPHY

	EXISTING
LAKE OR POND, WETLANDS	
TREE (CONIFER/DECIDUOUS) TREELINE (EDGE OF VEGETATION)	
PLANTER	
BUILDING OR FOUNDATION	

	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		

UTILITIES

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		

PAVEMENT MARKINGS

	PROPOSED
TRAFFIC PROJECT CENTERLINE	
8" & 4" WHITE SOLID STRIPE	
4" WHITE SKIP STRIPE 10' STRIPES AND 30' SPACES	
8" WHITE LANE GUIDE SKIP LANE CONTINUATION OR TURN SKIP 1" STRIPES AND 3' SPACES	
8" & 4" YELLOW SOLID STRIPE	
4" YELLOW SKIP STRIPE 10' STRIPES AND 30' SPACES	
STRIPING CHANGE STATION INTERVAL	
2' CROSSWALK OR STOPBAR	
LONGITUDINAL CROSSWALK WITH GAPS 2' WIDE RUNGS WITH 2' SPACES ALIGNED TO AVOID TIRE PATHS	
TYPICAL PAINTED MEDIAN	

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		



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE**

LEGEND

PLANS DEVELOPED BY:
HDR ENGINEERING, INC.
582 EAST 36TH AVENUE, SUITE 500
(907) 644-2000

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	CSHWY01279	2025	A4	A4

PLACEHOLDER



PLANS DEVELOPED BY:
HDR ENGINEERING INC.
582 EAST 36TH AVENUE, SUITE 500
(907) 644-2000

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE

SURVEY CONTROL SHEET

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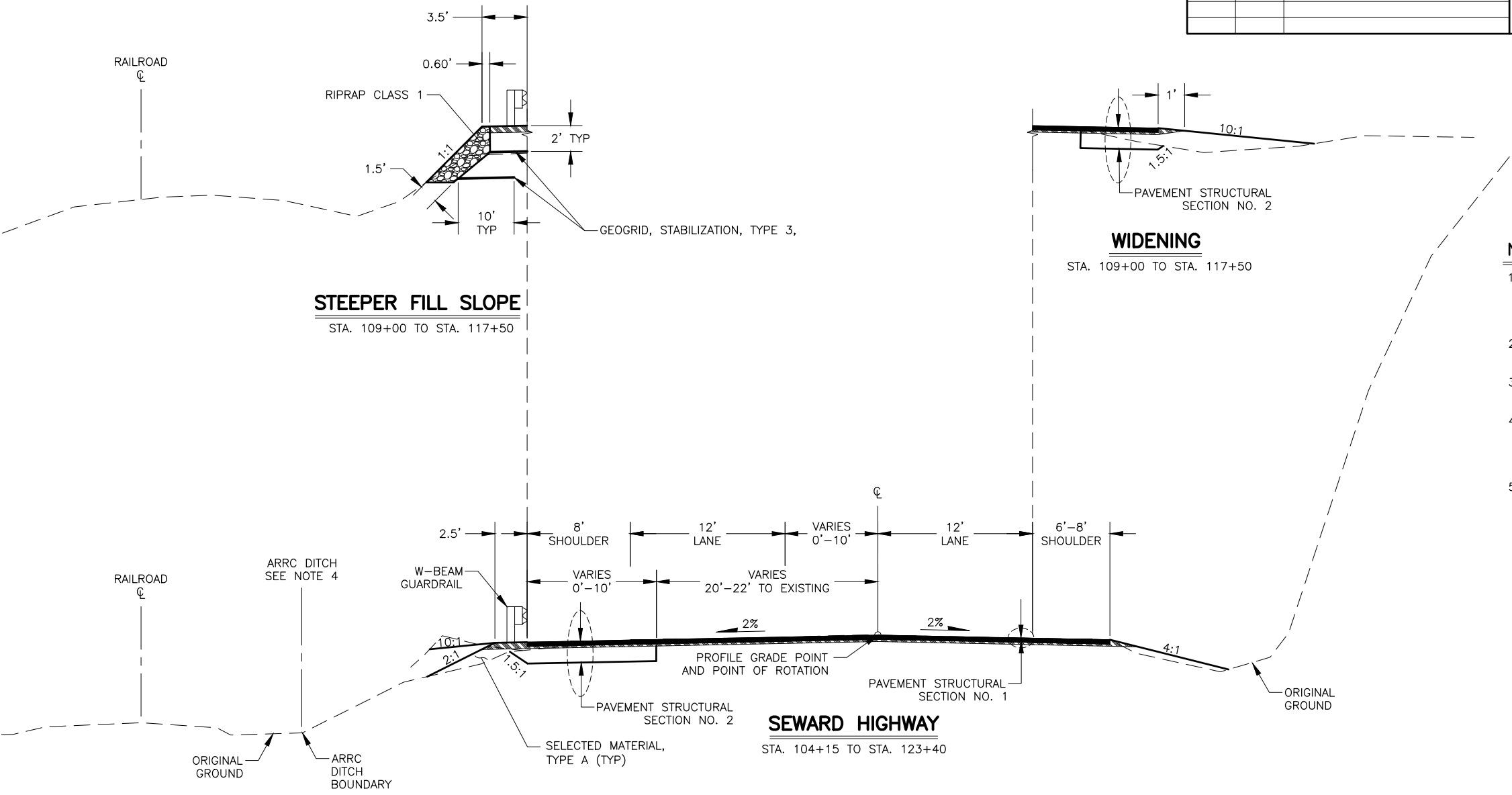
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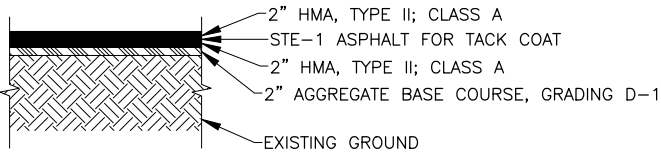
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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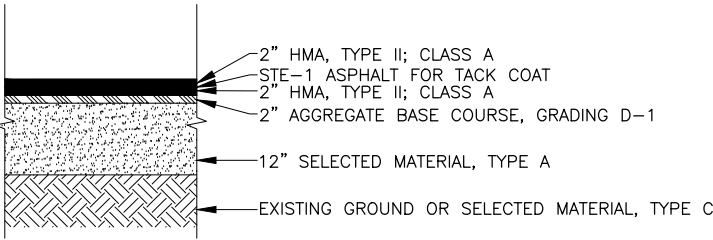


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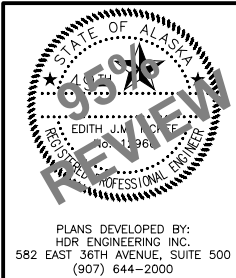
1. INSTALL ASPHALT SAFETY EDGE PER ASP M-25.00 ON RIGHT SHOULDER AND AS DIRECTED BY THE ENGINEER. WITHIN TWO (2) DAYS AFTER PAVING, PLACE AGGREGATE BASE COURSE, GRADING D-1 AGAINST PAVEMENT EDGE.
2. FILL SLOPES ADJACENT TO THE ARRC DITCH SHALL NOT REDUCE EXISTING DITCH DEPTH OR CAPACITY.
3. PROTECT EXISTING ARRC DITCH, SIDE SLOPES, AND VEGETATION. DO NOT PLACE FILL MATERIAL OR RIPRAP IN ARRC DITCH.
4. BACKFILL STEEPER SLOPE AREA PER STRUCTURAL SECTION WITH GEOGRID LAYERS EVERY 2' VERTICAL. PLACE SELECTED MATERIAL, TYPE C FOR ANY BACKFILL LOWER THAN STRUCTURAL SECTION DEPTH.
5. PLACE GEOGRID PERPENDICULAR TO THE CENTERLINE.



PAVEMENT STRUCTURAL SECTION NO. 1



PAVEMENT STRUCTURAL SECTION NO. 2



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE**

TYPICAL SECTIONS

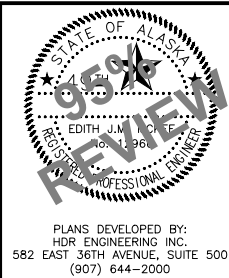
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ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
201.0003.0000	CLEARING AND GRUBBING	ACRE	0.8
202.0002.0000	REMOVAL OF PAVEMENT	SY	8,300
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	3,100
203.0006.000A	BORROW, TYPE A	TON	0
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	1,100
401.0001.002A	HMA, TYPE II; CLASS A	TON	2,150
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40 E	TON	114
401.0008.002A	HMA PRICE ADJUSTMENT, TYPE II; CLASS A	CS	ALL REQ'D
401.0009.0000	LONGITUDINAL JOINT DENSITY PRICE ADJUSTMENT	CS	ALL REQ'D
401.0010.0001	PAVEMENT SMOOTHNESS PRICE ADJUSTMENT, METHOD 1	CS	ALL REQ'D
401.0015.0000	ASPHALT MATERIAL PRICE ADJUSTMENT	CS	ALL REQ'D
401.2021.0000	ASPHALT BINDER PRICE ADJUSTMENT	CS	ALL REQ'D
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	TON	3.2
406.0002.0000	RUMBLE STRIPS	STA	68
606.0001.0000	W-BEAM GUARDRAIL	LF	1,825
606.0006.0000	REMOVING AND DISPOSING OF GUARDRAIL	LF	1,825
611.0002.0001	RIPRAP, CLASS I	TON	325
615.0002.0000	REMOVE AND RELOCATE SIGN	EACH	3
618.0001.0000	SEEDING	ACRES	0.5
620.0001.0000	TOPSOIL	SY	2,550
634.0001.0003	GEOGRID, STABILIZATION, CLASS 3	SY	2,900
639.2000.0000	APPROACH	EACH	1
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQ'D
641.0005.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	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	HOURL	40
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

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	CSHWY01279	2025	C1	C1

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
644.0001.0000	FIELD OFFICE	LS	ALL REQ'D
644.2002.0000	ENGINEERING COMMUNICATIONS	CS	ALL REQ'D
646.0001.0000	CPM SCHEDULING	LS	ALL REQ'D
647.2002.0000	BACKHOE, 4WD, 1 CY BUCKET, 75 HP MIN, 15 FT DEPTH	CS	ALL REQ'D
670.2006.0000	MMA PAVEMENT MARKINGS, LONGITUDINAL INLAID	LF	10,800
670.2007.0000	MMA PAVEMENT MARKINGS, SYMBOLS AND ARROWS INLAID	EACH	6
670.2008.0000	MMA PAVEMENT MARKINGS, TRANSVERSE AND GORE INLAID	LF	3,050

TABLE OF ESTIMATING FACTORS		
ITEM NO.	ITEM DESCRIPTION	UNIT
203.0006.000A	BORROW, TYPE A	144 LB/CF
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	144 LB/CF
401.0001.0000	HMA, TYPE II; CLASS A	151 LB/CF
401.0002.5240	ASPHALT BINDER, GRADE PG 52-40	5.3% OF TOTAL WEIGHT OF 401.0001.0000
603.010.0010	TACK COAT, STE-1	0.000334 TON/SY
611.0002.0001	RIPRAP, CLASS I	108 LB/CF



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE**

ESTIMATE OF QUANTITIES

202.0002.0000 – REMOVAL OF PAVEMENT				
SHEET	STATION		AREA (SY)	REMARKS
	FROM	TO		
F1	104+91	108+50	1,580	
F2	108+50	113+50	2,220	
F3	113+50	118+50	2,190	
F4	118+50	123+55	2,275	
TOTAL:			8,265	
PAY ITEM QUANTITY:			8,300	

406.0002.0000 – RUMBLE STRIPS				
SHEET	STATION		STATION (100 FT)	REMARKS
	FROM	TO		
H3–H6	104+91	123+55	18.6	RIGHT SHOULDER
H3–H6	104+91	123+55	18.7	LEFT SHOULDER
H3–H4	104+91	110+96	11.7	CENTERLINE AND SOUTHERN GORE OUTLINES
H4–H6	111+43	123+55	19.0	CENTERLINE AND NORTHERN GORE OUTLINES
TOTAL:			68.0	
PAY ITEM QUANTITY:			68	

606 ITEMS – GUARDRAIL SUMMARY							
SHEET	STATION			606.0001.0000	606.0006.0000	CASE	REMARKS
	FROM	TO	OFFSET	W–BEAM GUARDRAIL (LF)	REMOVING AND DISPOSING OF GUARDRAIL (LF)		
F1–F4	104+91	123+55	LT	1,825	1,825	2	TRANSITIONS PER ASP G–11.01 INCLUDED WITHIN STATION RANGE SHOWN AND SHALL BE SUBSIDIARY TO ITEM 606.0001.0000. GUARDRAIL CASE VARIES ALONG RUN, INSTALL 8’ STEEL POSTS ALONG STEEPER FILL SLOPE AREA STA 109+00 TO STA 117+50
PAY ITEM QUANTITY:				1,825	1,825		

639.2000.0000 – APPROACH SUMMARY									
SHEET	STATION	OFFSET	SKEW ANGLE (90° TYP)	TYPE			WIDTH (LF)	LENGTH (LF)	REMARKS
				PUB	RES	COM			
F2	111+14	RT	87°	X			22	30	
TOTAL:				1					
PAY ITEM QUANTITY:				1					



STATE OF ALASKA
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AND PUBLIC FACILITIES

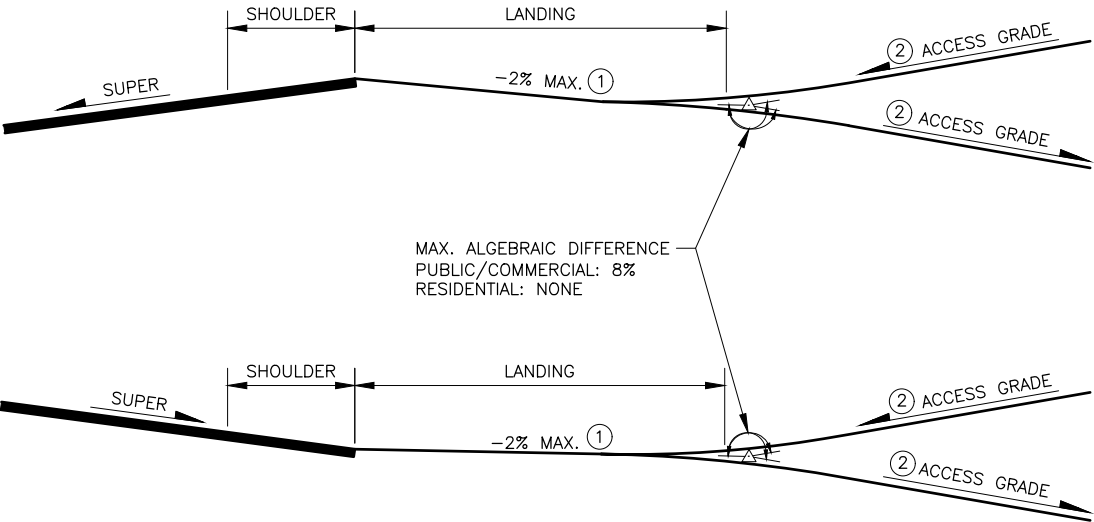
SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE

SUMMARY TABLES

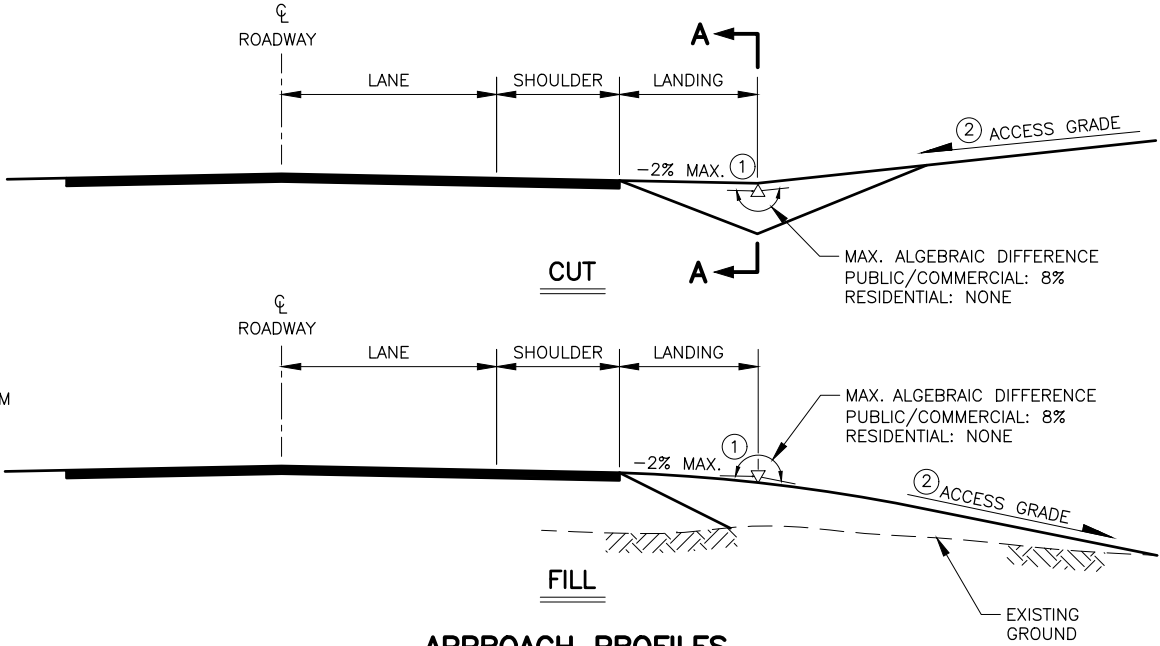
PLANS DEVELOPED BY:
HDR ENGINEERING INC.
582 EAST 36TH AVENUE, SUITE 500
(907) 644-2000

DESIGNED BY: GR
CHECKED BY: GR
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TIME: 11:25 AM
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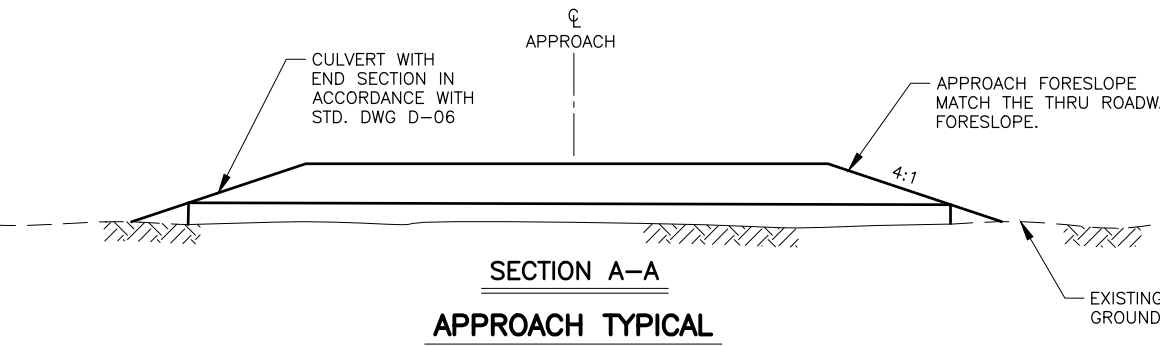
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	CSHWY01279	2025	E1	E3



APPROACH PROFILES ON SUPER ELEVATED ROADWAY

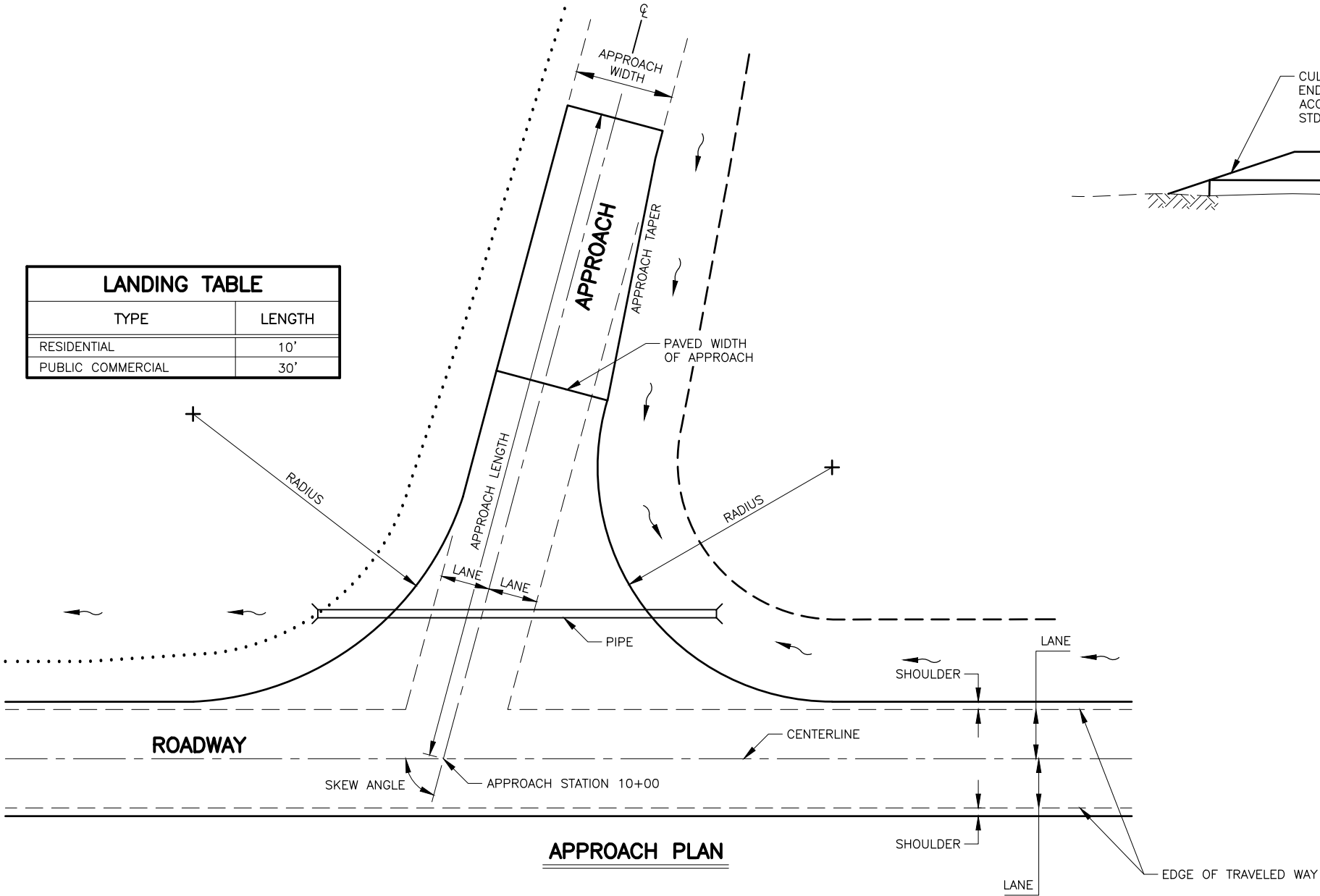


APPROACH PROFILES



SECTION A-A
APPROACH TYPICAL

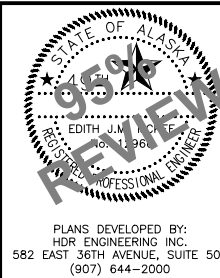
LANDING TABLE	
TYPE	LENGTH
RESIDENTIAL	10'
PUBLIC COMMERCIAL	30'



APPROACH PLAN

NOTES:

- SEE APPROACH SUMMARY FOR APPROACH STATION, LENGTH, WIDTH, SKEW ANGLE, AND TYPE.
- THE PAVED PORTION OF THE APPROACH STRUCTURAL SECTION SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS THE ROADWAY STRUCTURAL SECTION UNLESS A SEPARATE TYPICAL SECTION IS INCLUDED IN THE PLANS COVERING APPROACHES.
- PAVE TO THE END OF THE RADIUS RETURN UNLESS OTHERWISE INDICATED.
- APPROACH VERTICAL CURVE REQUIREMENTS:
CREST - 2 1/2 INCH MAXIMUM IN A 10 FOOT CHORD
SAG - 2 INCH MAXIMUM IN A 10 FOOT CHORD



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AND PUBLIC FACILITIES

SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE

APPROACH DETAIL

DRAWING LOCATION
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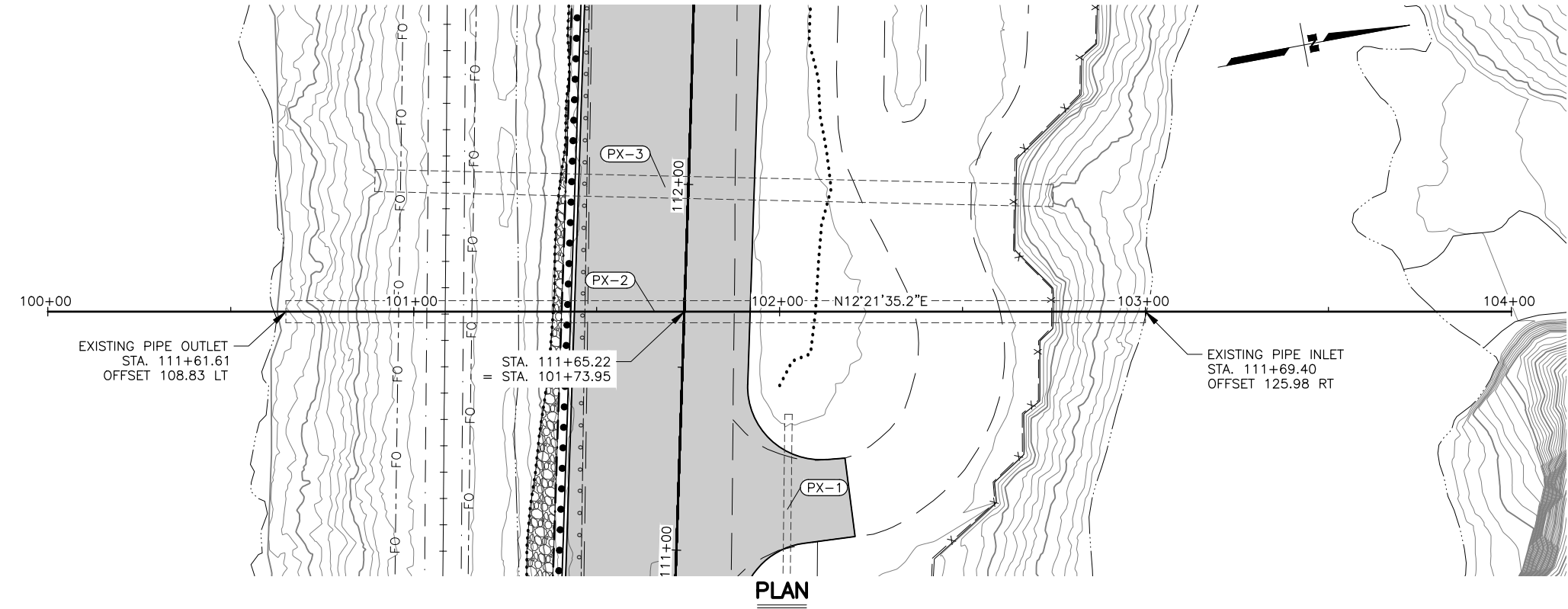
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SCALE 1"=20'

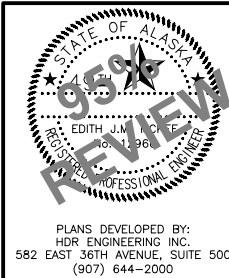
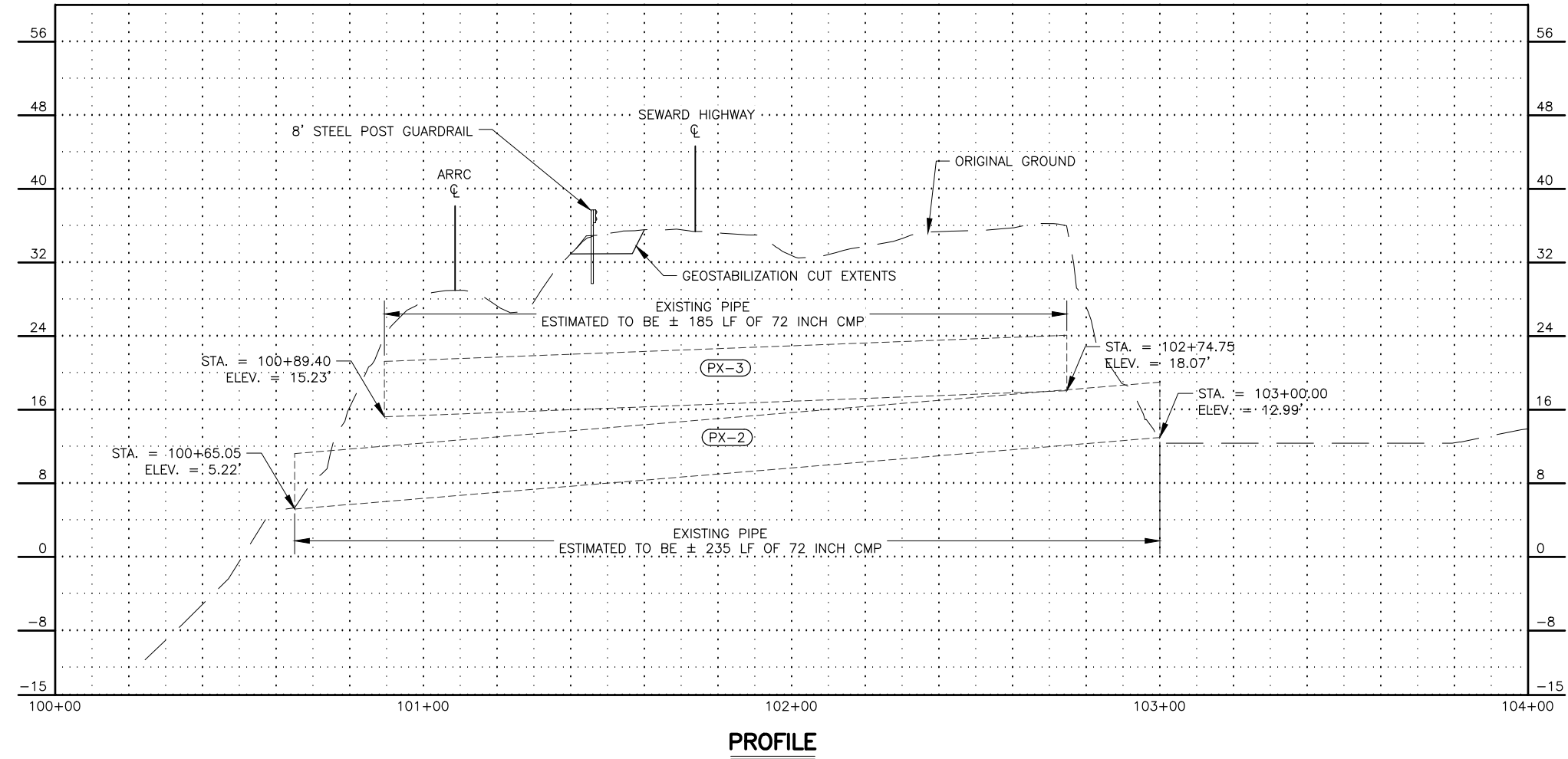
DESIGNED BY
CHECKED BY
DRAFTED BY

GR
GR

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	CSHWY01279	2025	E2	E3



- NOTES:
1. LOCATION OF EXISTING PIPE IS SHOWN FOR AVOIDANCE PURPOSES ONLY. ELEVATIONS ARE FROM AS-BUILTS.
 2. DO NOT DISTURB PIPE WITH CONSTRUCTION WORK. PROTECT IN PLACE.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE**

EXISTING PIPE DETAIL

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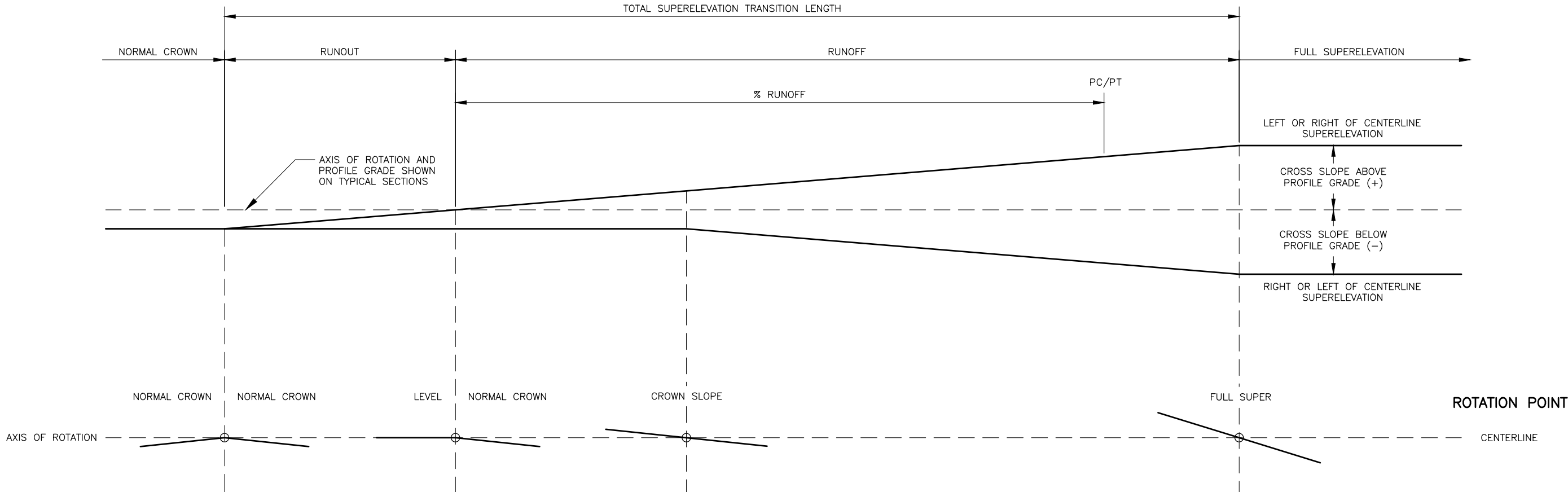
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DRAFTED BY: GR

SCALE: 1"=40'

DATE: 5/29/2025
TIME: 11:26 AM

DRAWING LOCATION: C:\USERS\GRUTHER\WORK\PROJECT FILES\HDR\01_PRODUCTION\01279_E_DETAIL.DWG

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	CSHWY01279	2025	E3	E3



SUPERELEVATION TRANSITION

SUPERELEVATION TRANSITION TABLE (FOR TWO-LANE ROADWAYS)	
DESIGN SPEED (MPH)	Δ_{MAX}/L (%/FT)
≤ 20	0.066
25	0.060
30	0.055
35	0.051
40	0.047
45	0.044
≥ 50	0.042

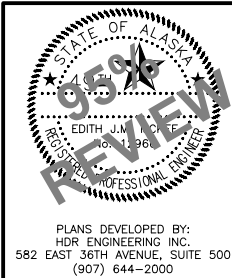
TRANSITION RATES ARE DERIVED FROM TABLE 3-16a OF THE 2018 AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (GREEN BOOK).

ADJUSTMENT FACTOR TABLE (FOR MULTI-LANE ROADWAYS)	
NUMBER OF LANES ROTATED	ADJUSTMENT FACTOR
1	1.00
1.5	0.83
2	0.75
2.5	0.70
3	0.67
3.5	0.64

ADJUSTMENT FACTORS FROM TABLE 3-15 OF THE 2018 AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (GREEN BOOK).

NOTES:

- BUILD SUPERELEVATION INTO SUBGRADE AND CARRY THROUGH SHOULDERS.
- % RUNOFF = PORTION OF RUNOFF ON TANGENT. % RUNOFF IS 0.67 UNLESS OTHERWISE SPECIFIED.
- WIDENING FOR GUARDRAIL OR CURVATURE DOES NOT CHANGE THE LOCATION OF THE AXIS OF ROTATION.
- SEE SUPERELEVATION TRANSITION TABLE FOR MAXIMUM LATERAL SLOPE TRANSITION RATES (Δ_{MAX}/L) PER LINEAR FOOT OF ROADWAY FOR A TWO-LANE ROAD.
- FOR ROADWAYS WITH MORE THAN TWO LANES, USE THE VALUES SHOWN IN THE ADJUSTMENT FACTORS TABLE TO MODIFY THE MAXIMUM LATERAL SLOPE TRANSITION RATE PER LINEAR FOOT OF ROADWAY.
- TOTAL SUPERELEVATION TRANSITION LENGTH (RUNOUT PLUS RUNOFF) IS EQUAL TO ((NUMBER OF LANES ROTATED)*(TOTAL PERCENT SLOPE CHANGE)*(ADJUSTMENT FACTOR)) / (MAX LATERAL SLOPE TRANSITION RATE).



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**SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE**
**SUPERELEVATION TRANSITION
DETAILS**

DRAWING LOCATION
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DATE
5/29/2025

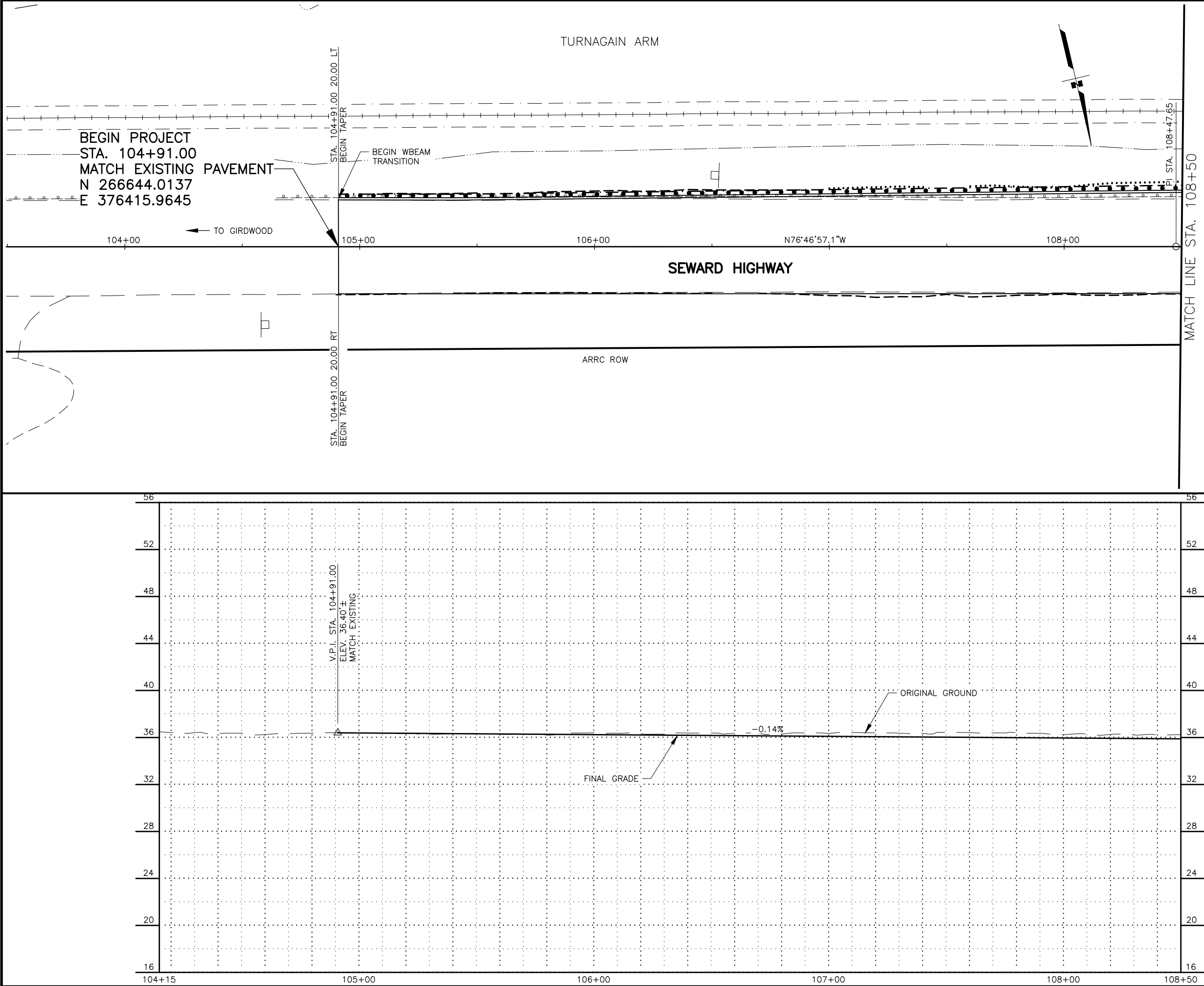
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SCALE
1" = 20'

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GR

CHECKED BY
GR

DRAFTED BY
GR



SHEET NO.	TOTAL SHEETS
F1	F4
STATE	YEAR
ALASKA	2025
PROJECT DESIGNATION	
CSHWY01279	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

THIS SHEET

STATE OF ALASKA

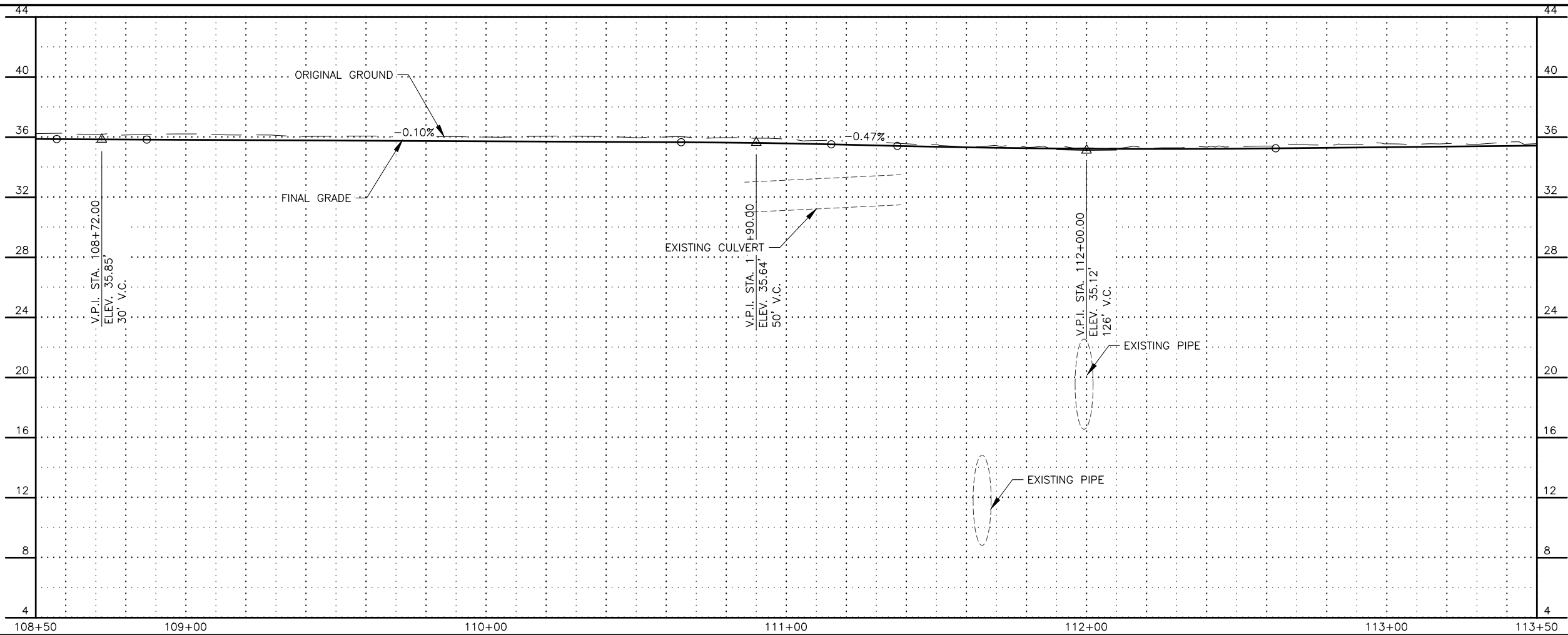
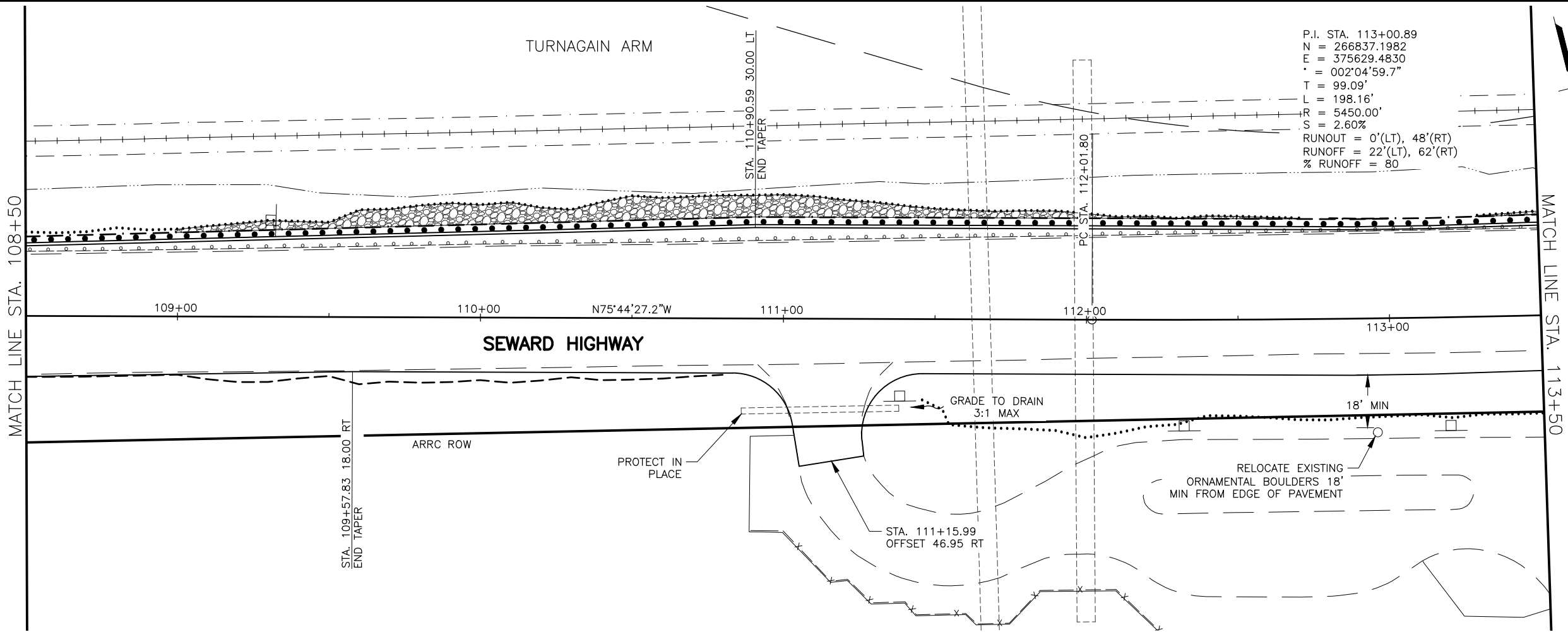
95% REVIEW

EDITH J. MCKAY

PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
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582 EAST 36TH AVENUE, SUITE 500
(907) 644-2000

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE
PLAN & PROFILE



SHEET NO.	TOTAL SHEETS
F2	F4
STATE	YEAR
ALASKA	2025
PROJECT DESIGNATION	
CSHWY01279	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

THIS SHEET

STATE OF ALASKA
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REVIEW
EDITH J. MCGEE
REGISTERED PROFESSIONAL ENGINEER
1990-2025

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE

PLAN & PROFILE

DRAWING LOCATION
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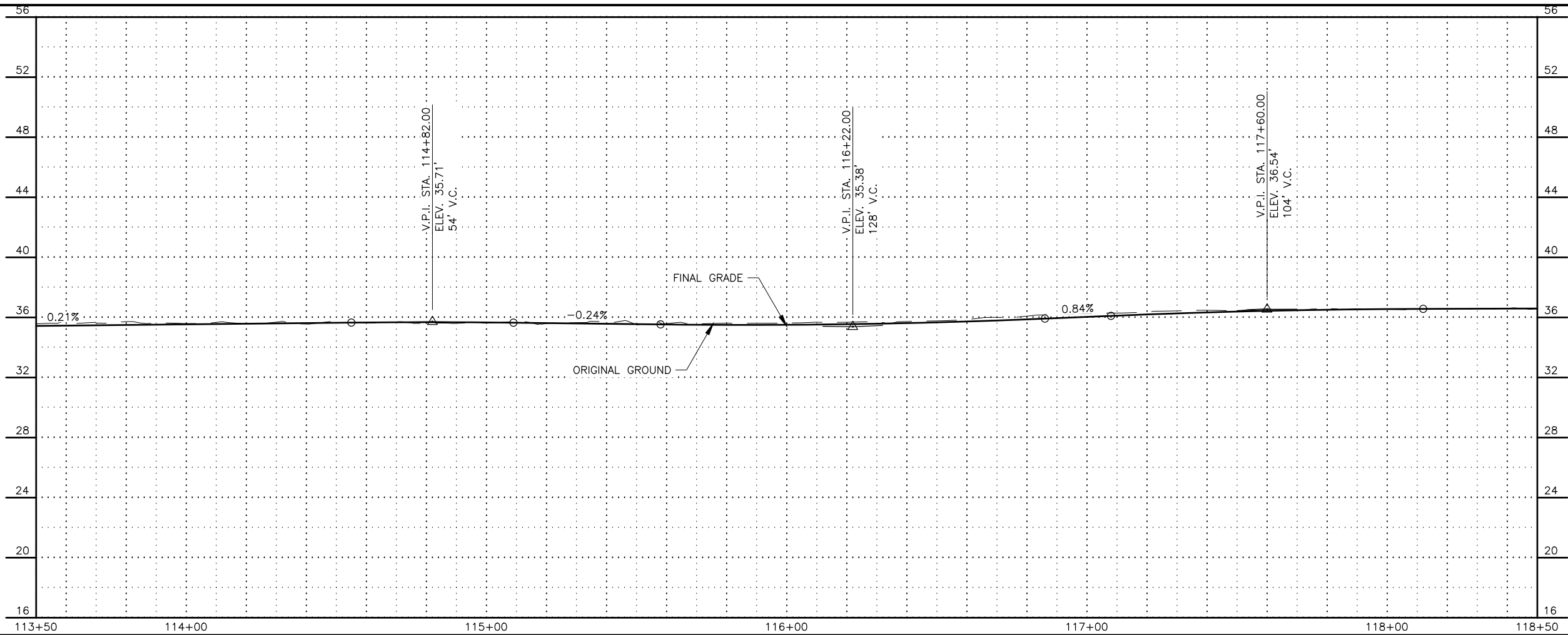
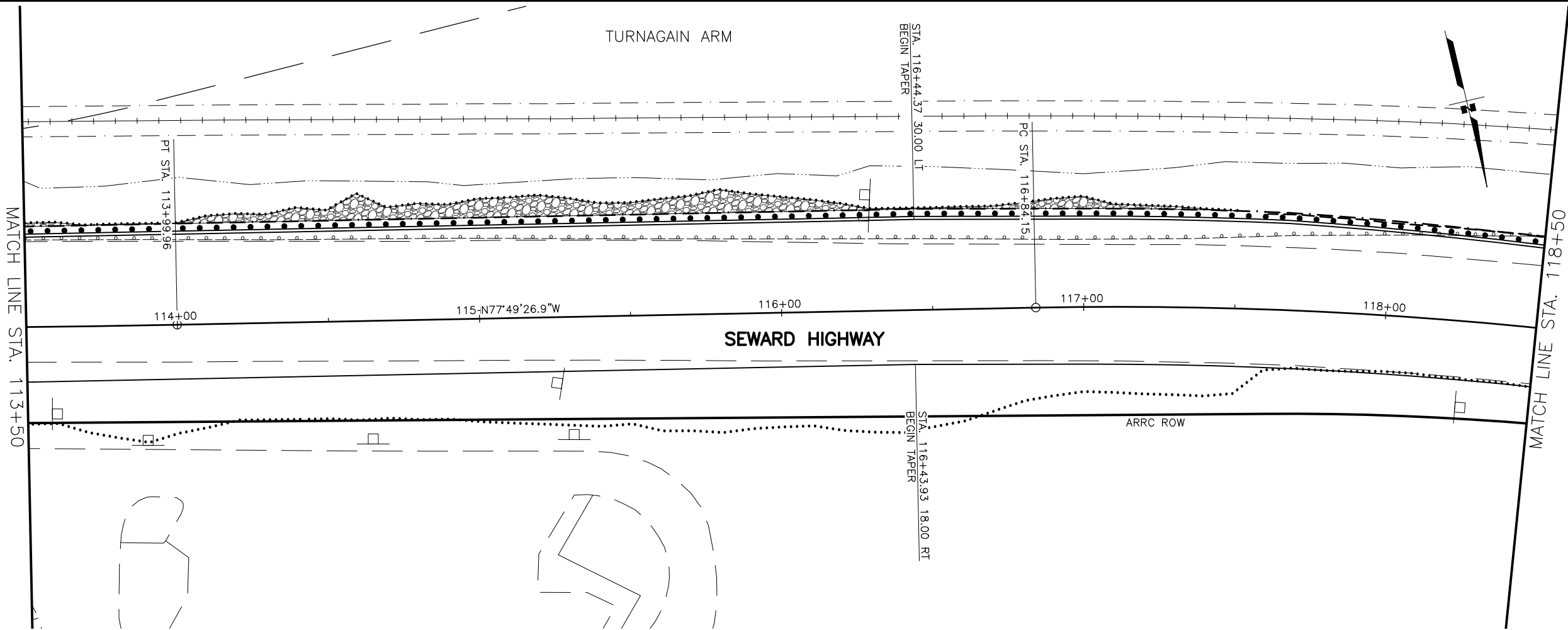
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5/29/2025

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SCALE
1" = 20'



SHEET NO.	TOTAL SHEETS
F3	F4
STATE	YEAR
ALASKA	2025
PROJECT DESIGNATION	
CSHWY01279	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

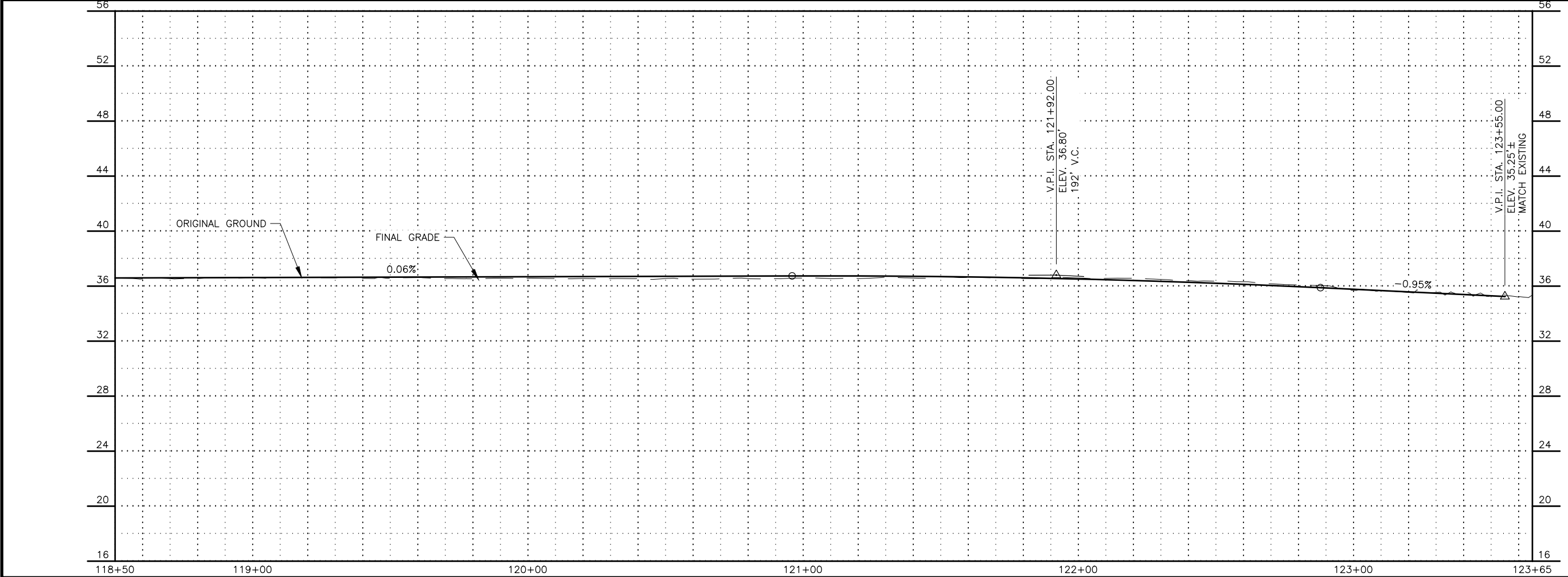
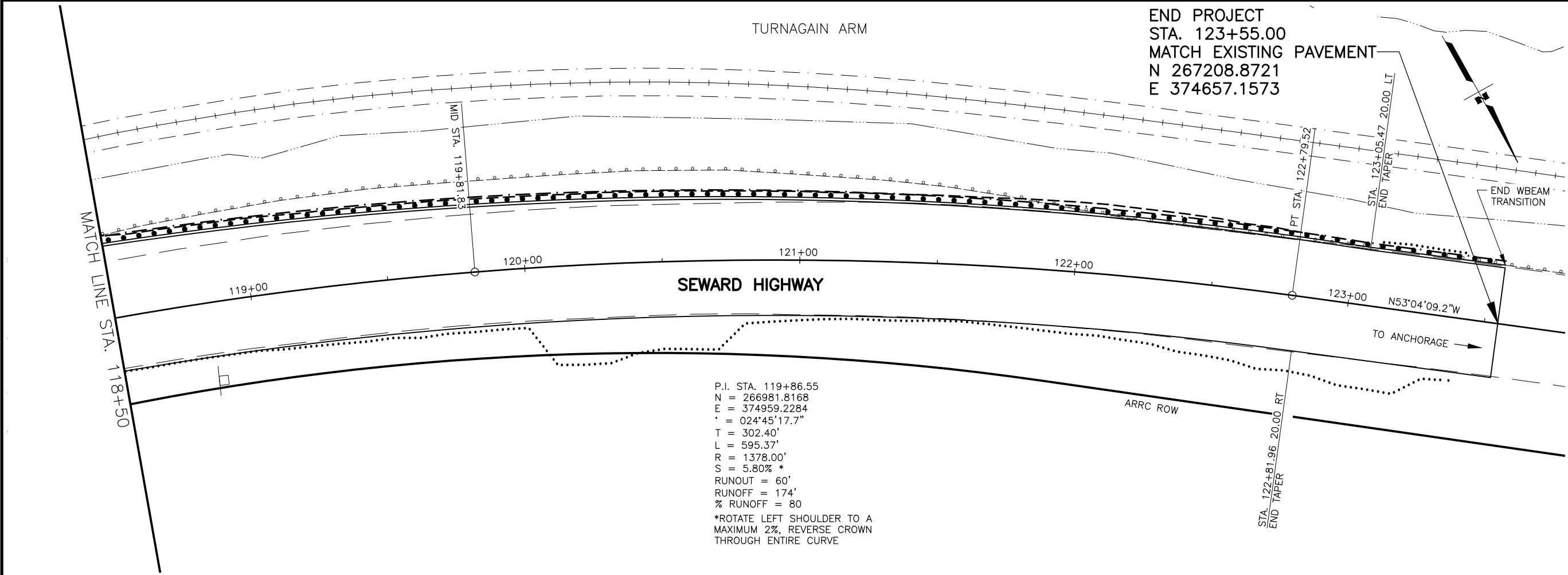
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE

PLAN & PROFILE



SHEET NO.	TOTAL SHEETS
F4	F4
STATE	YEAR
ALASKA	2025
PROJECT DESIGNATION	
CSHWY01279	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
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STATE OF ALASKA
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REVIEW
EDITH J. MCKAY
REGISTERED PROFESSIONAL ENGINEER
1996

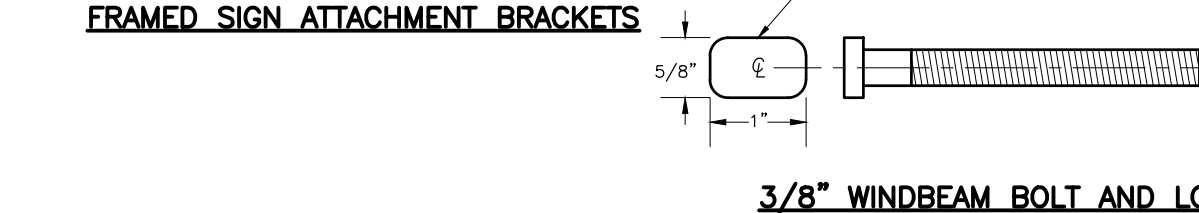
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AND PUBLIC FACILITIES

SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE

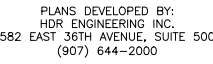
PLAN & PROFILE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CSHWY01279	2025	H1	H7



1. EXCEPT FOR POLES AND MAST ARMS, ONLY USE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
2. 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.
3. 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.
4. 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.
5. 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.
6. THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
7. ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL.
8. ATTACH FRAMED SIGNS TO POLES AND MAST ARMS USING POLE PLATES INSTALLED ACCORDING TO ALASKA STANDARD PLAN S-23.
9. FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
10. INSTALL THE TOP EDGE OF SIGNS 1" ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
11. INSTALL THE TOP EDGE OF SIGNS 3" BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
12. THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
13. INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.

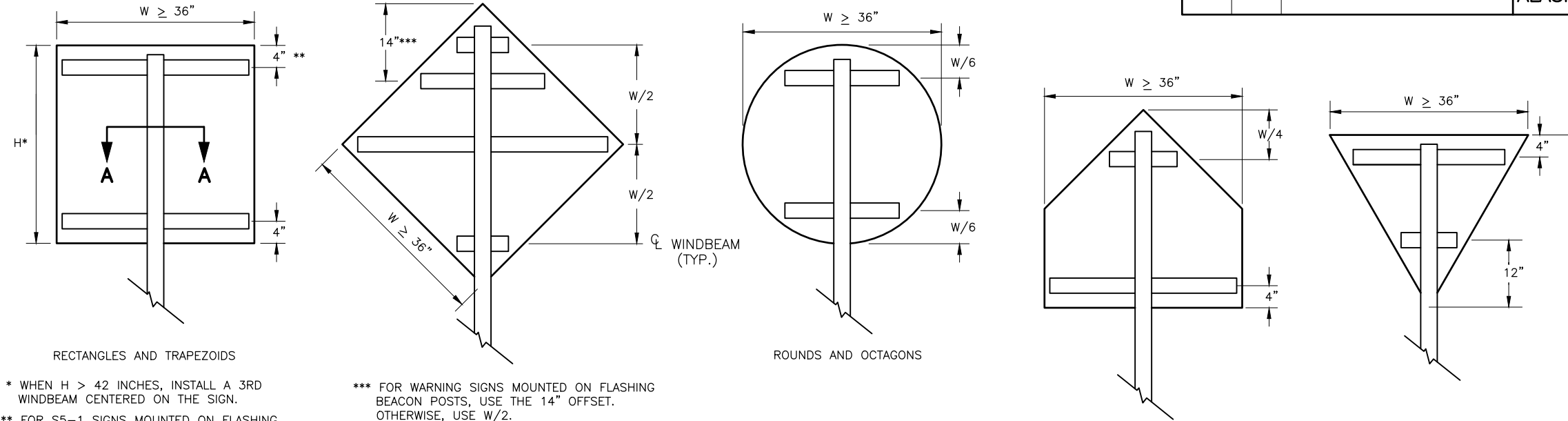
FASTENER SPECIFICATION TABLE			
FASTENERS	ALUMINUM	STEEL	STAINLESS STEEL
BOLTS	ASTM F468 2024-T4	ASTM A307	ASTM F593
NUTS	ASTM F467 2024-T4	ASTM A563	ASTM F594
WASHERS	ANSI B18.22.1	ASTM F844	ANSI B18.22.1
POST CLIPS	ASTM B179 356-T6	N/A	N/A



SIGN ATTACHMENT DETAIL

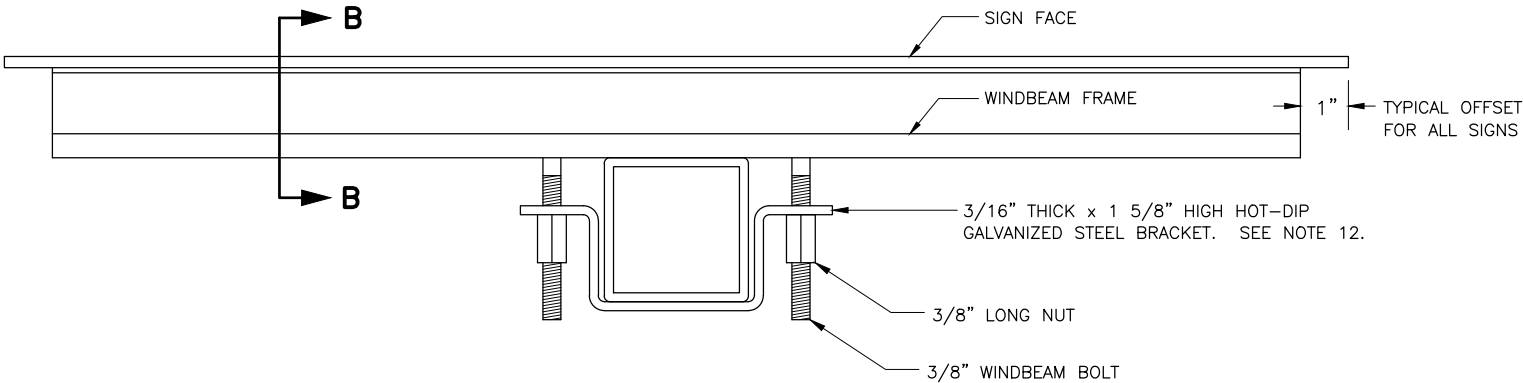
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DRAWING LOCATION
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	CSHWY01279	2025	H2	H7

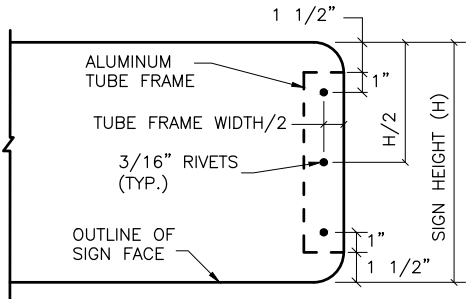


WINDBEAM LOCATIONS FOR EACH SIGN SHAPE

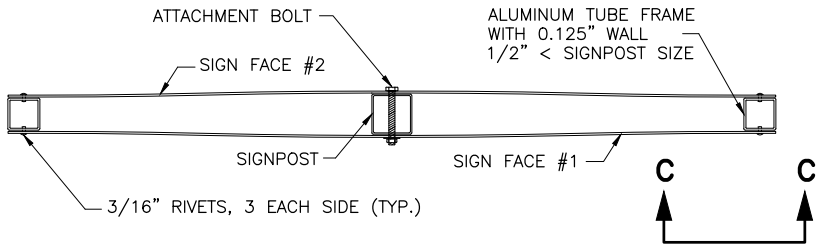
ELEVATION VIEW



SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM

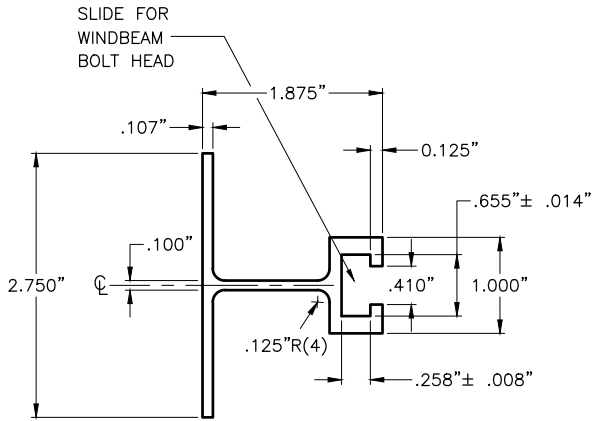


VIEW C - C

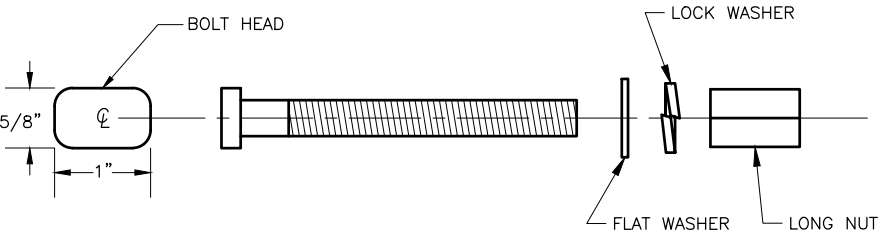


D3-1 STREET NAME SIGN FRAMING DETAIL

PLAN VIEW



SECTION B - B WINDBEAM CROSS SECTION



3/8" WINDBEAM BOLT AND LONG NUT

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.



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SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE

LIGHT SIGN FRAMING DETAIL

DRAWING LOCATION
C:\USERS\GRUTHER\DC\ACCDOS\HDR\10361516-34.1_MCHUGH CREEK TURN LANE_2022\PROJECT FILES\HDR\01_PRODUCTION\01279_H.DWG

DATE
5/29/2025

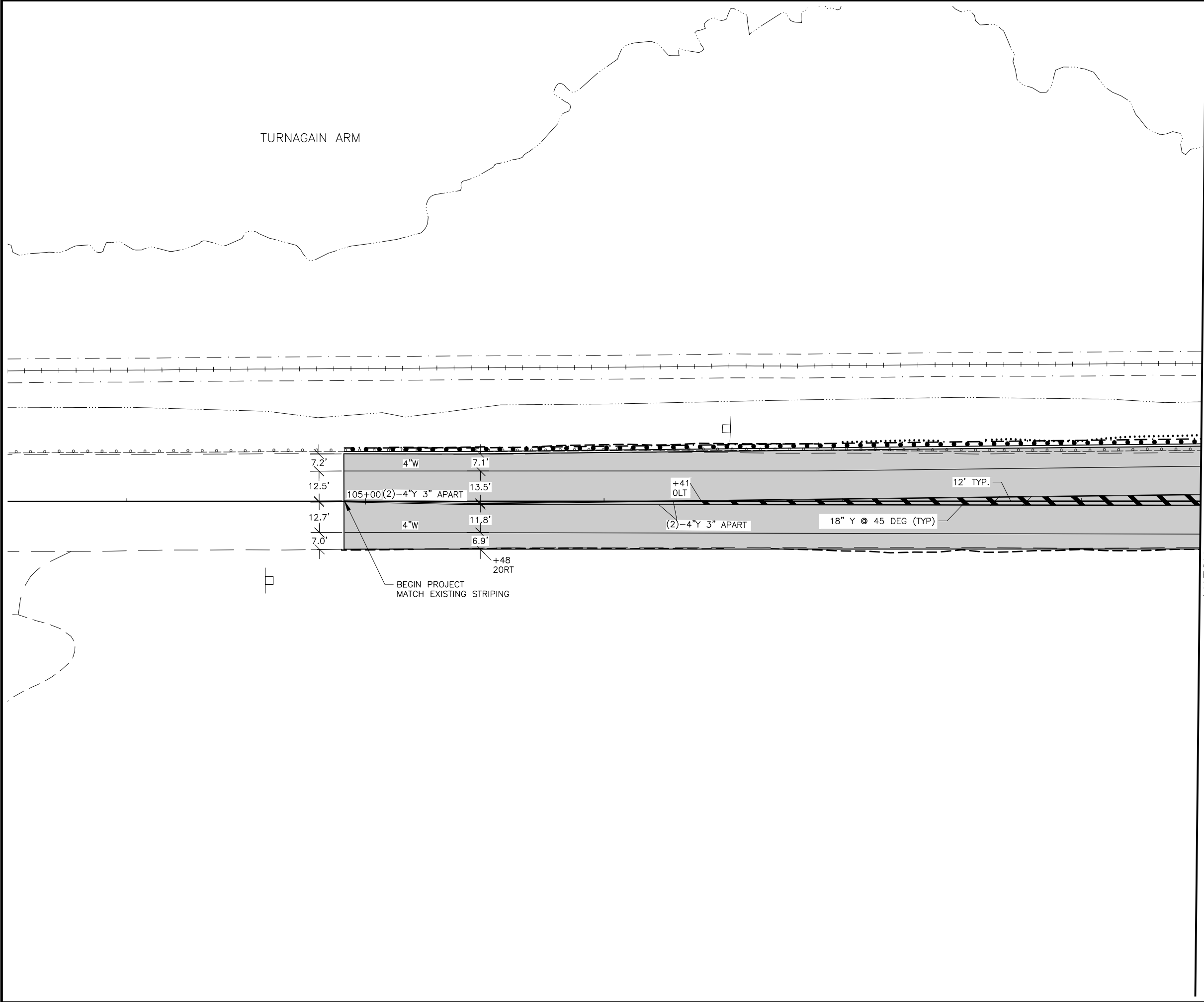
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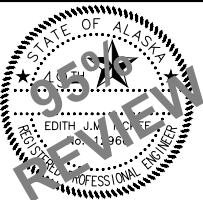
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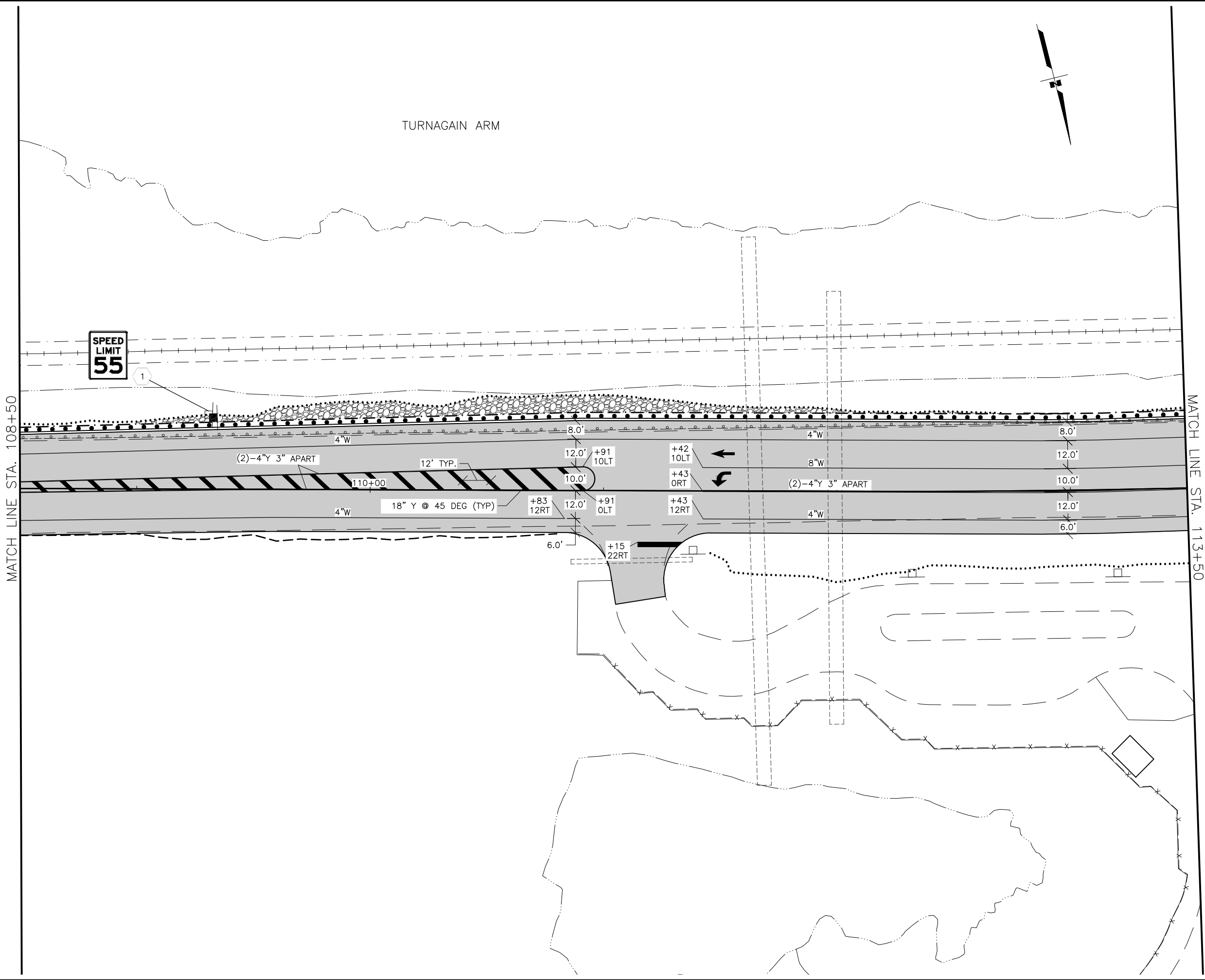
SHEET NO.	TOTAL SHEETS
H3	H7
STATE	YEAR
ALASKA	2025
PROJECT DESIGNATION	
CSHWY01279	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE

SIGN AND STRIPING



SHEET NO.	TOTAL SHEETS
H4	H7
STATE	YEAR
ALASKA	2025
PROJECT DESIGNATION	
CSHWY01279	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE

SIGN AND STRIPING

DRAWING LOCATION

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SCALE

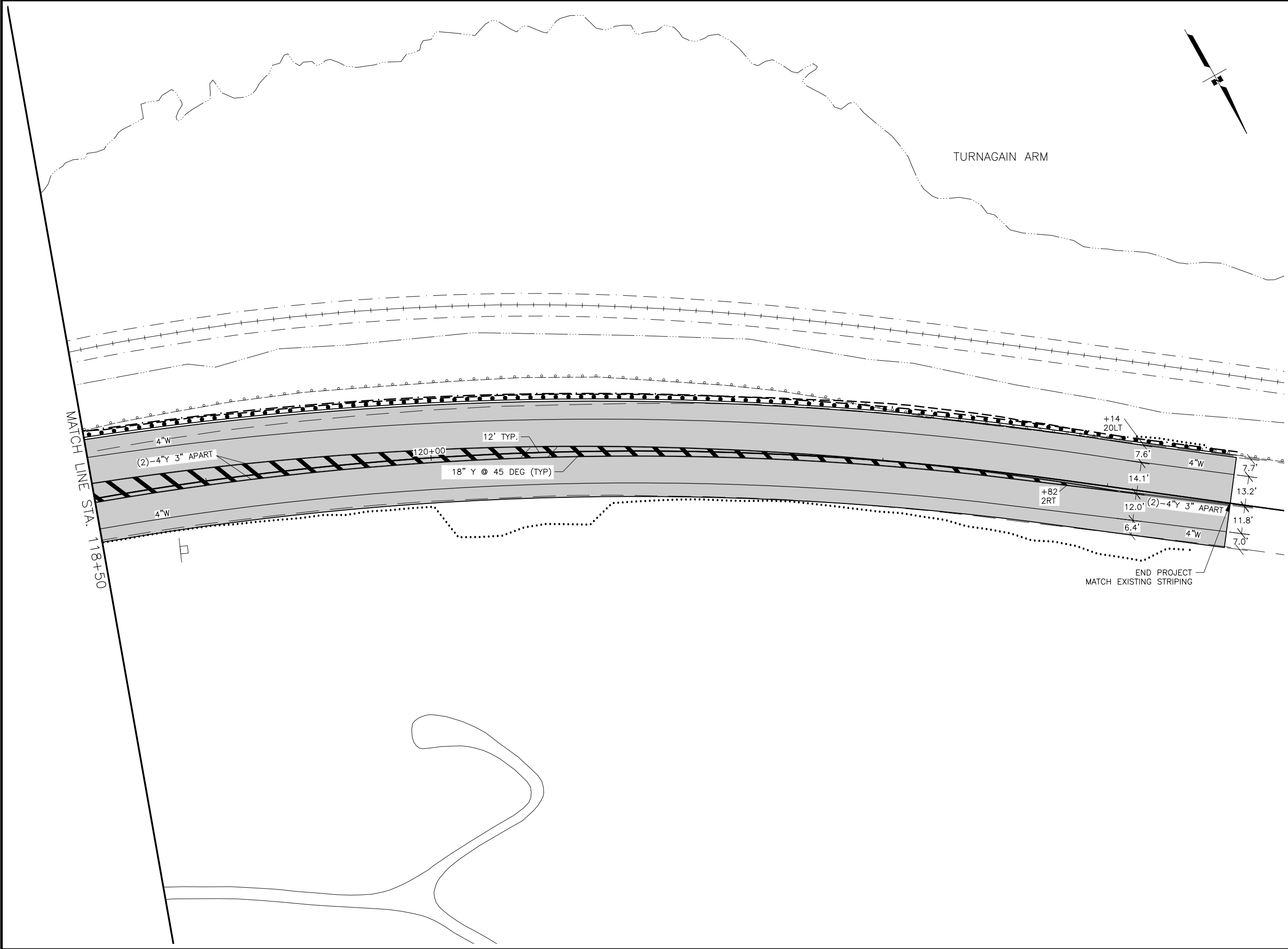
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DATE

5/29/2025

TIME

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SHEET NO.	TOTAL SHEETS
H6	H7
STATE	YEAR
ALASKA	2025
PROJECT DESIGNATION	
CSHWY01279	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA

95% REVIEW

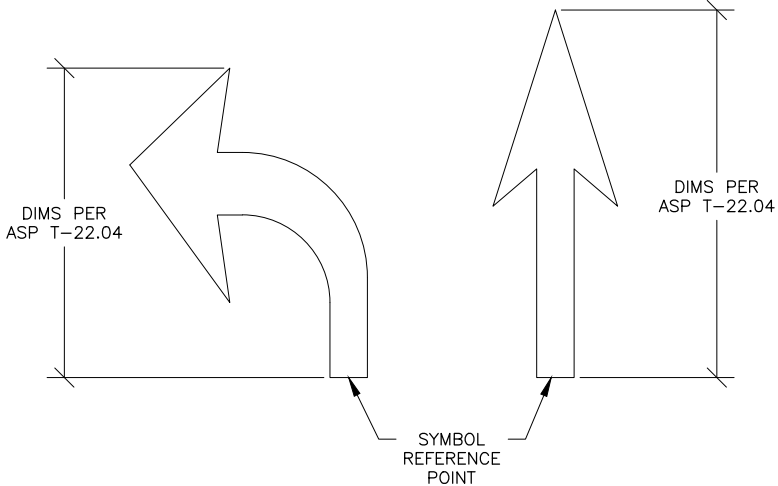
EDITH J. MCKAY

REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
HDR ENGINEERING INC.
582 EAST 36TH AVENUE, SUITE 500
(907) 644-2000

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE
SIGN AND STRIPING

615.0002.0000 REMOVE AND RELOCATE SIGN													
SIGN NO.	LOCATION	CL REF	TYPE	LEGEND	SIZE (IN)		AREA (SF)	SIGN FACES	POST	FRAMED?		PAY ITEM QUANTITY (EA)	REMARKS
	STATION				WIDTH	LENGTH			NO, SIZE, & TYPE	YES	NO		
1	109+30	RT	R2-1		36	48	12	N	1-2.5"PT	-	X	1	
2	115+27	RT	D10-203A		16	60	6.7	N/S	1-2.5"PT	-	X	1	
3	116+29	LT	D7-100		96	24	16	N	2-4"T	X	-	1	
			RA-80 RL-100L RM-140 D9-6L		96	24	16			X	-		



SYMBOL LAYOUT DETAIL

SHEET NO.
H7

TOTAL SHEETS
H7

STATE
ALASKA

YEAR
2025

PROJECT DESIGNATION
CSHWY01279

NO.
DATE

REVISION

NO.
DATE

REVISION

NO.
DATE

REVISION

STATE OF ALASKA
95%
REVIEW
EDITH J. M...
PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
HDR ENGINEERING INC.
582 EAST 36TH AVENUE, SUITE 500
(907) 644-2000

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY
MCHUGH CREEK
TURN LANE
SIGN SUMMARY AND
ARROW DETAIL