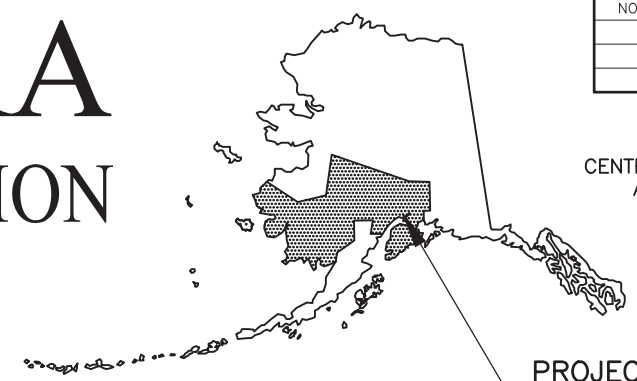


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001630/CFHWY00453	2024	A01	A05
			ROUTE ID	2381095X000	MILEPOINT	4.450 - 4.750	
			LATITUDE	61.61460000	LONGITUDE	149.25472222	

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES



PROJECT LOCATION
 DOT&PF M&O STATION: PALMER
 MAT SU BOROUGH O&M

PROJECT SUMMARY		
ROADWAY	WIDTH	LENGTH
BOGARD ROAD MP 4.45-4.75	36 FT	0.3 MILES
ENGSTROM ROAD MP 0.00-0.10	24 FT	0.1 MILES
GREEN FOREST DRIVE MP 0.95-1.15	20 FT	0.2 MILES

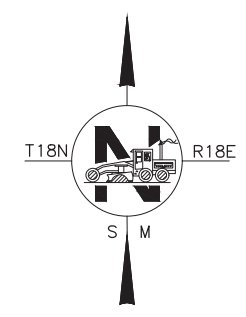
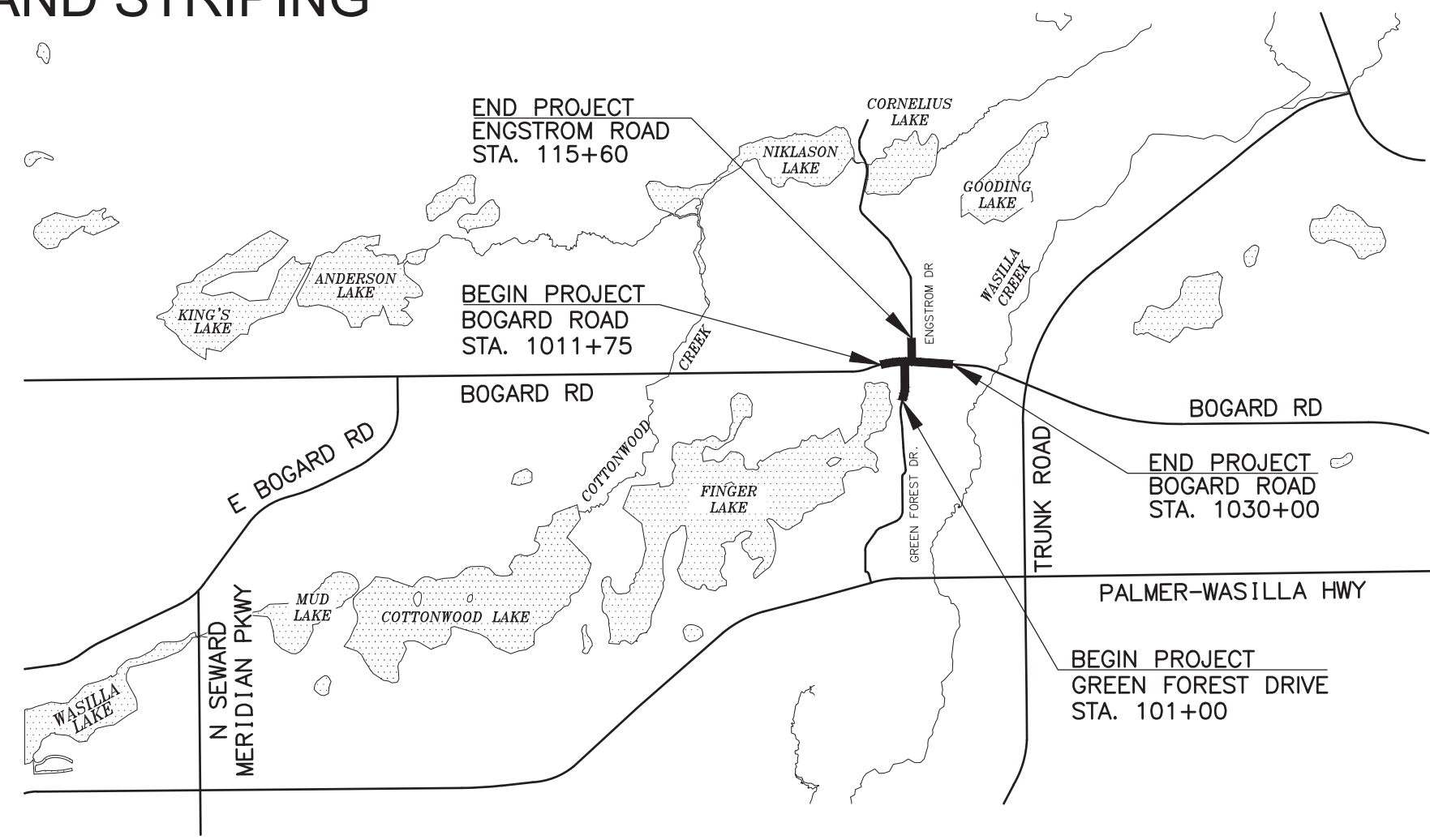
PROPOSED HIGHWAY PROJECT

HSIP: BOGARD ROAD AT ENGSTROM ROAD/ GREEN FOREST DRIVE INTERSECTION

IMPROVEMENTS PROJECT NO. 0001(630)/CFHWY00453

GRADING, DRAINAGE, PAVING, ILLUMINATION, SIGNING,
 AND STRIPING

DESIGN DESIGNATIONS			
	BOGARD ROAD	ENGSTROM ROAD	GREEN FOREST DRIVE
FUNCTIONAL CLASS	URBAN ARTERIAL	MAJOR COLLECTOR	MINOR COLLECTOR
AADT (EXISTING YEAR)	8,247	2,440	1,311
AADT (DESIGN YEAR)	10,708	N/A	N/A
DESIGN SPEED (V) (MPH)	55	35	25
DHV (EXISTING YEAR)	10.89%	N/A	N/A
DHV (DESIGN YEAR)	10.89%	N/A	N/A
T-PERCENT COMMERCIAL TRUCKS (%)	6.77%	N/A	N/A
D-DIRECTIONAL DISTRIBUTION (%)	50%	N/A	N/A



**PIH REVIEW
 JULY 2022**

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

DESIGNED BY: _____ CHECKED BY: _____ DRAFTED BY: _____
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 TIME: 11:33 AM
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 CHECKED BY: PGH
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001630/CFHWY00453	2024	A02	A05

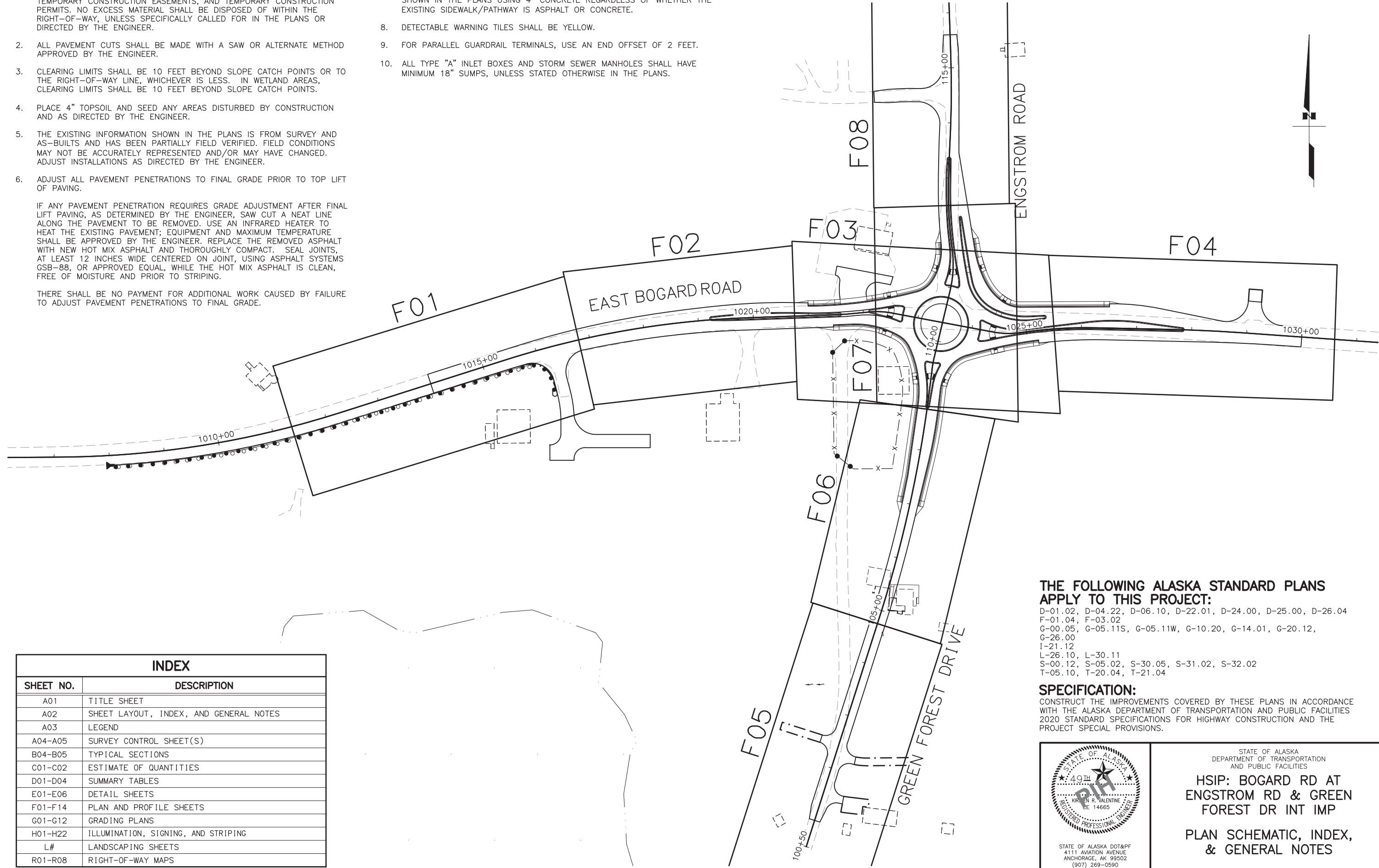
GENERAL NOTES:

- 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.
- ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATE METHOD APPROVED BY THE ENGINEER.
- CLEARING LIMITS SHALL BE 10 FEET BEYOND SLOPE CATCH POINTS OR TO THE RIGHT-OF-WAY LINE, WHICHEVER IS LESS. IN WETLAND AREAS, CLEARING LIMITS SHALL BE 10 FEET BEYOND SLOPE CATCH POINTS.
- PLACE 4" TOPSOIL AND SEED ANY AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.
- THE EXISTING INFORMATION SHOWN IN THE PLANS IS FROM SURVEY AND 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.
- 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.

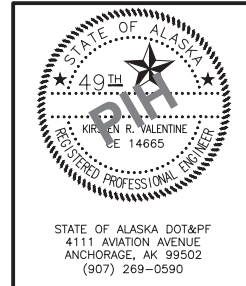
- CONSTRUCT RAMP RUNS, LANDINGS, FLARES, AND SIDEWALK EXTENSIONS SHOWN IN THE PLANS USING 4" CONCRETE REGARDLESS OF WHETHER THE EXISTING SIDEWALK/PATHWAY IS ASPHALT OR CONCRETE.
- DETECTABLE WARNING TILES SHALL BE YELLOW.
- FOR PARALLEL GUARDRAIL TERMINALS, USE AN END OFFSET OF 2 FEET.
- ALL TYPE "A" INLET BOXES AND STORM SEWER MANHOLES SHALL HAVE MINIMUM 18" SUMPS, UNLESS STATED OTHERWISE IN THE PLANS.



INDEX	
SHEET NO.	DESCRIPTION
A01	TITLE SHEET
A02	SHEET LAYOUT, INDEX, AND GENERAL NOTES
A03	LEGEND
A04-A05	SURVEY CONTROL SHEET(S)
B04-B05	TYPICAL SECTIONS
C01-C02	ESTIMATE OF QUANTITIES
D01-D04	SUMMARY TABLES
E01-E06	DETAIL SHEETS
F01-F14	PLAN AND PROFILE SHEETS
G01-G12	GRADING PLANS
H01-H22	ILLUMINATION, SIGNING, AND STRIPING
L#	LANDSCAPING SHEETS
R01-R08	RIGHT-OF-WAY MAPS

THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT:
 D-01.02, D-04.22, D-06.10, D-22.01, D-24.00, D-25.00, D-26.04
 F-01.04, F-03.02
 G-00.05, G-05.11S, G-05.11W, G-10.20, G-14.01, G-20.12, G-26.00
 I-21.12
 L-26.10, L-30.11
 S-00.12, S-05.02, S-30.05, S-31.02, S-32.02
 T-05.10, T-20.04, T-21.04

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.



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP**
**PLAN SCHEMATIC, INDEX,
 & GENERAL NOTES**

STATE OF ALASKA DOT&PF
 4111 AVIATION AVENUE
 ANCHORAGE, AK 99502
 (907) 269-0590

DRAWING LOCATION: W:\PROJECTS\HSIP\BOGARD_ENGSTROM_RA - CFHWY00453\CIV3D\PLANS\00453_A03_L0ND.DWG
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 DRAFTED BY: KRV
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 TIME: 6/22/2022 12:34 PM

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	001630/CFHWY00453	2024	A03	A05

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		
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		
MISCELLANEOUS CONCRETE		
MISCELLANEOUS WALL		

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		
NATURAL GAS METER		
OIL OR GASOLINE PIPELINE		
TANKS (ABOVE GROUND, UNDERGROUND)		
ELECTRIC		
UTILITY POLE, POLE WITH LUMINAIRE		
UTILITY POLE WITH TRANSFORMER		
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		
SIGNAL CONDUIT		
LIGHTING CONDUIT		
SIGNAL & LIGHTING CONDUIT		
INTERCONNECT		
SIGN POST		
DELINEATOR		

PAVEMENT MARKINGS

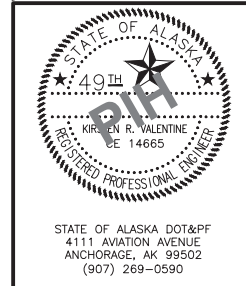
	PROPOSED
TRAFFIC PROJECT CENTERLINE	
8" & 4" WHITE SOLID STRIPE	
4" WHITE SKIP STRIPE	
BROKEN LANE LINE	
4" WHITE LANE ADD/DROP SKIP	
EXIT LANE ADDS, MERGE/TAPER LANE DROPS	
WEAVE POINTS	
8" WHITE LANE ADD/DROP SKIP	
EXIT LANE ADDS, MERGE/TAPER LANE DROPS	
WEAVE POINTS	
4" WHITE LANE EXTENSION SKIP	
TURN POCKET AND BIKE LANE EXTENSION	
8" WHITE LANE EXTENSION SKIP	
TURN POCKET AND BIKE LANE EXTENSION	
8" WHITE INTERSECTION GUIDE SKIP	
INTERSECTION TURNING GUIDE	
24" WHITE ROUNDABOUT ENTRANCE LINE	
ROUNDABOUT ENTRANCE YIELD LINE	
8" & 4" YELLOW SOLID STRIPE	
4" YELLOW SKIP STRIPE	
BROKEN LANE LINE	
STRIPING CHANGE STATION MARKER	
2' CROSSWALK OR STOPBAR	
GAP LADDER CROSSWALK LAYOUT	
2" WIDE RUNGS WITH 2" SPACES	
ALIGNED TO AVOID TIRE PATHS	
LADDER CROSSWALK LAYOUT	
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		

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)		



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
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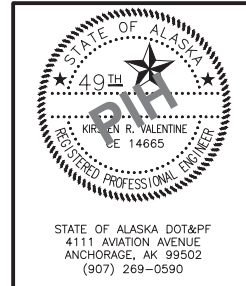
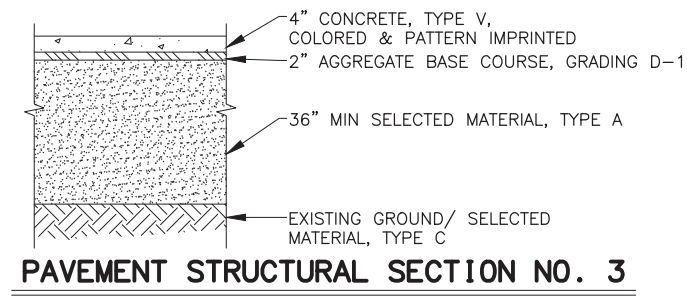
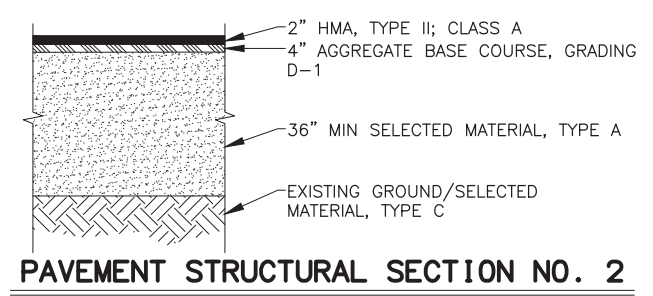
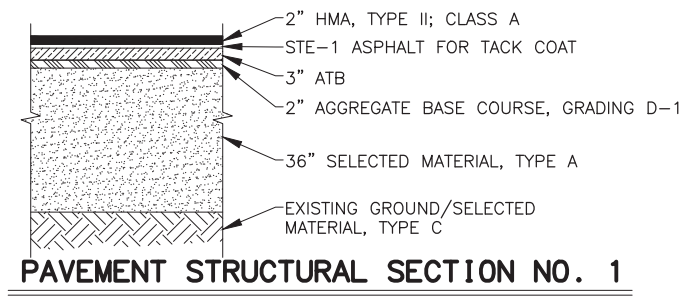
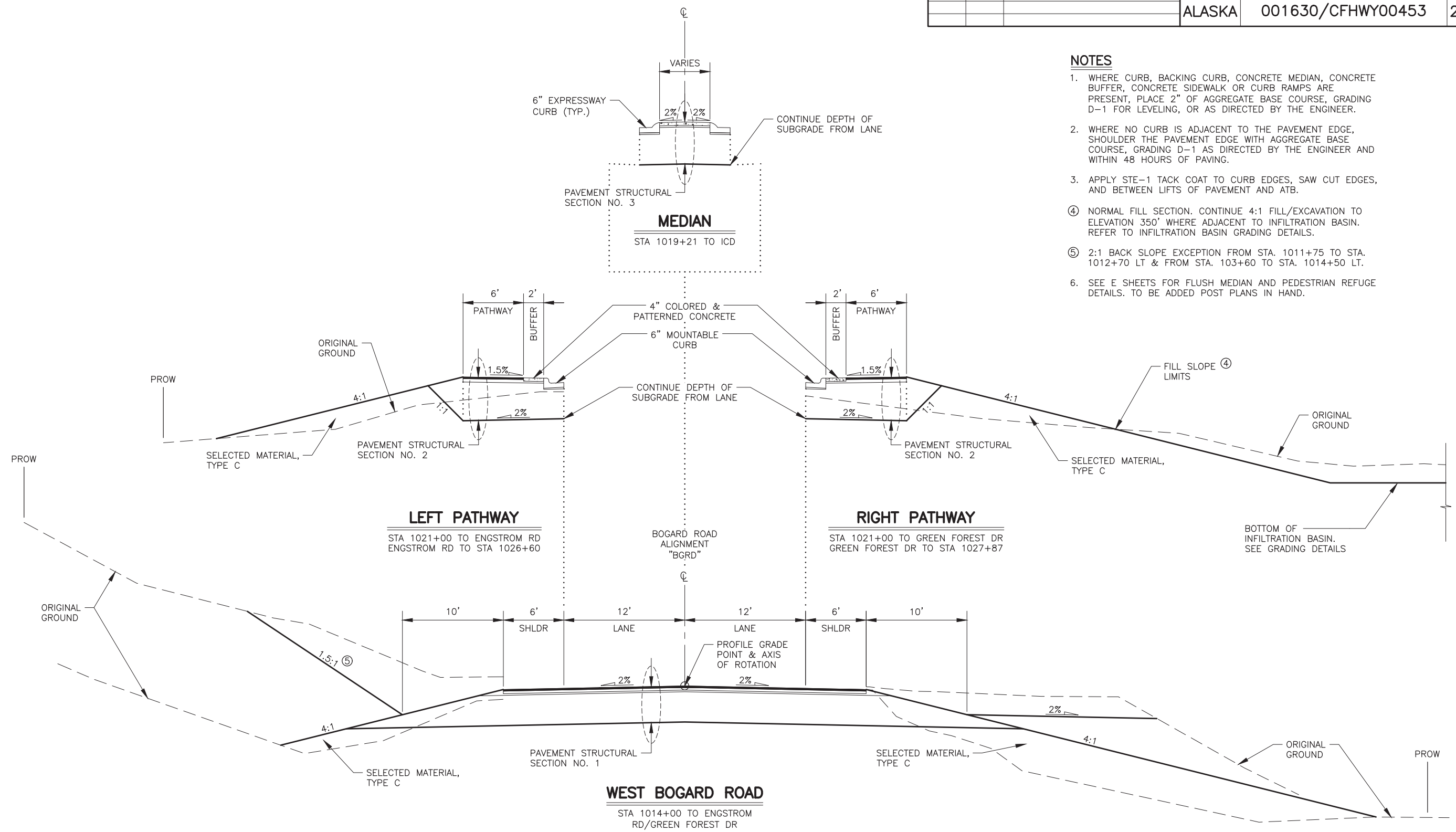
LEGEND

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001630/CFHWY00453	2024	B01	B05

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 DATE 6/22/2022
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NOTES

- WHERE CURB, BACKING CURB, CONCRETE MEDIAN, CONCRETE BUFFER, CONCRETE SIDEWALK OR CURB RAMPS ARE PRESENT, PLACE 2" OF AGGREGATE BASE COURSE, GRADING D-1 FOR LEVELING, OR AS DIRECTED BY THE ENGINEER.
- WHERE NO CURB IS ADJACENT TO THE PAVEMENT EDGE, SHOULDER THE PAVEMENT EDGE WITH AGGREGATE BASE COURSE, GRADING D-1 AS DIRECTED BY THE ENGINEER AND WITHIN 48 HOURS OF PAVING.
- APPLY STE-1 TACK COAT TO CURB EDGES, SAW CUT EDGES, AND BETWEEN LIFTS OF PAVEMENT AND ATB.
- NORMAL FILL SECTION. CONTINUE 4:1 FILL/EXCAVATION TO ELEVATION 350' WHERE ADJACENT TO INFILTRATION BASIN. REFER TO INFILTRATION BASIN GRADING DETAILS.
- 2:1 BACK SLOPE EXCEPTION FROM STA. 1011+75 TO STA. 1012+70 LT & FROM STA. 103+60 TO STA. 1014+50 LT.
- SEE E SHEETS FOR FLUSH MEDIAN AND PEDESTRIAN REFUGE DETAILS. TO BE ADDED POST PLANS IN HAND.



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
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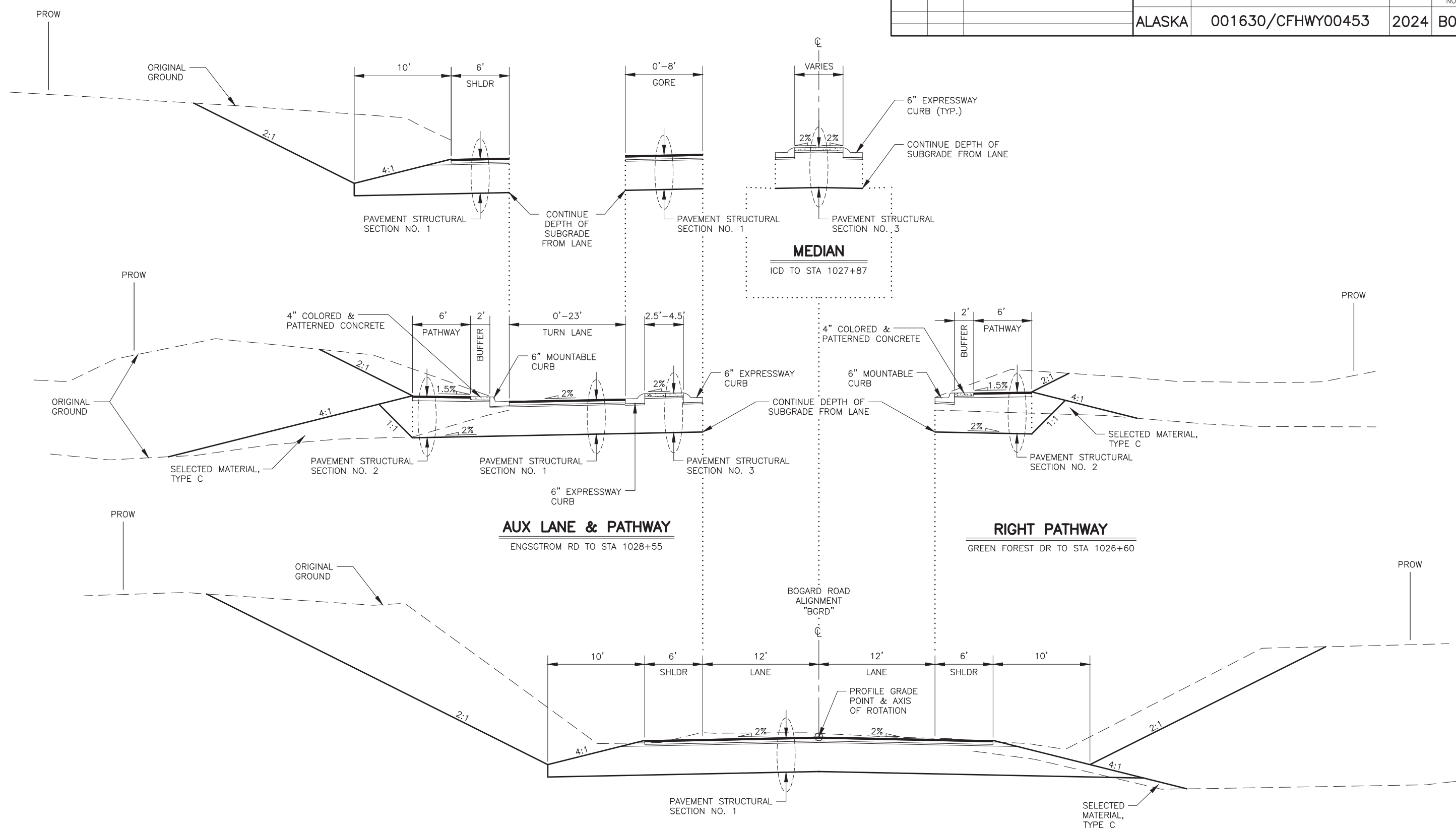
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 FOREST DR INT IMP**

TYPICAL SECTIONS

STATE OF ALASKA DOT&PF
 4111 AVIATION AVENUE
 ANCHORAGE, AK 99502
 (907) 269-0590

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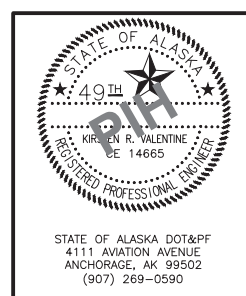
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AUX LANE & PATHWAY
ENGSTROM RD TO STA 1028+55

RIGHT PATHWAY
GREEN FOREST DR TO STA 1026+60

EAST BOGARD ROAD
ENGSTROM RD/GREEN FOREST DR TO STA 1030+00



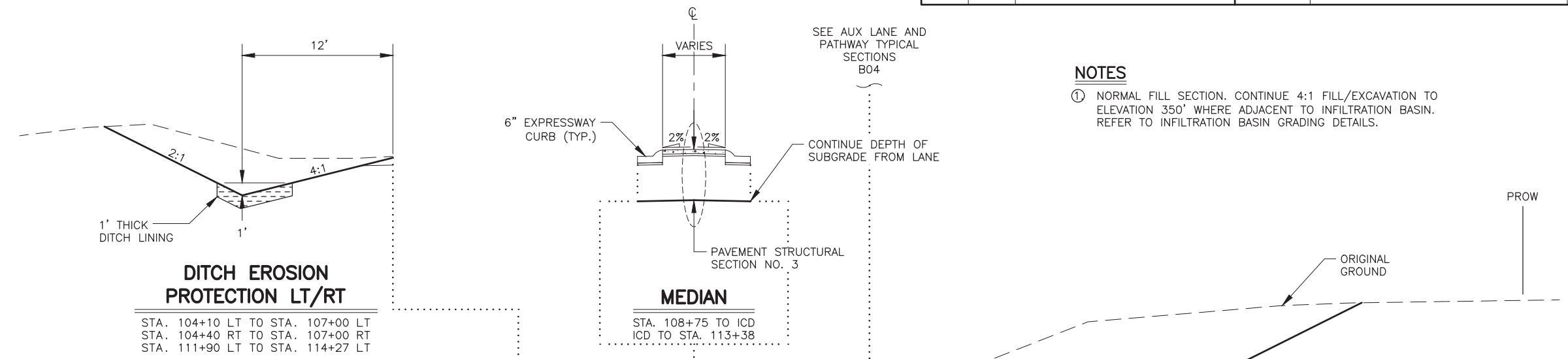
STATE OF ALASKA
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TYPICAL SECTIONS

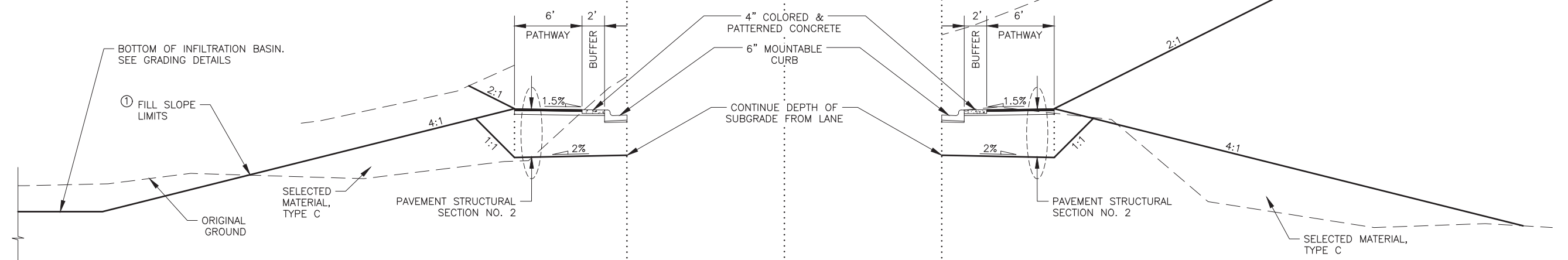
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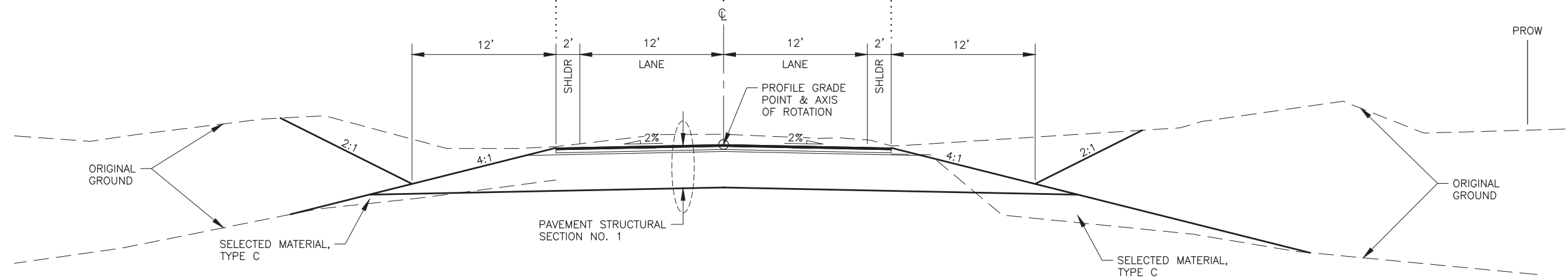
NOTES
 ① NORMAL FILL SECTION. CONTINUE 4:1 FILL/EXCAVATION TO ELEVATION 350' WHERE ADJACENT TO INFILTRATION BASIN. REFER TO INFILTRATION BASIN GRADING DETAILS.



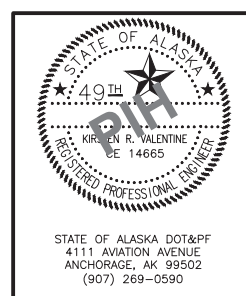
BASIN ON LEFT
 STA. 107+40 TO BOGARD ROAD

PATHWAY ON LEFT
 STA. 107+00 TO STA. 107+40
 BOGARD ROAD TO STA. 111+85

PATHWAY ON RIGHT
 STA. 107+10 TO BOGARD ROAD
 BOGARD ROAD TO STA. 111+85



GREEN FOREST DRIVE & ENGSTROM ROAD
 STA. 101+00 TO BOGARD ROAD
 BOGARD ROAD TO STA. 115+60



STATE OF ALASKA
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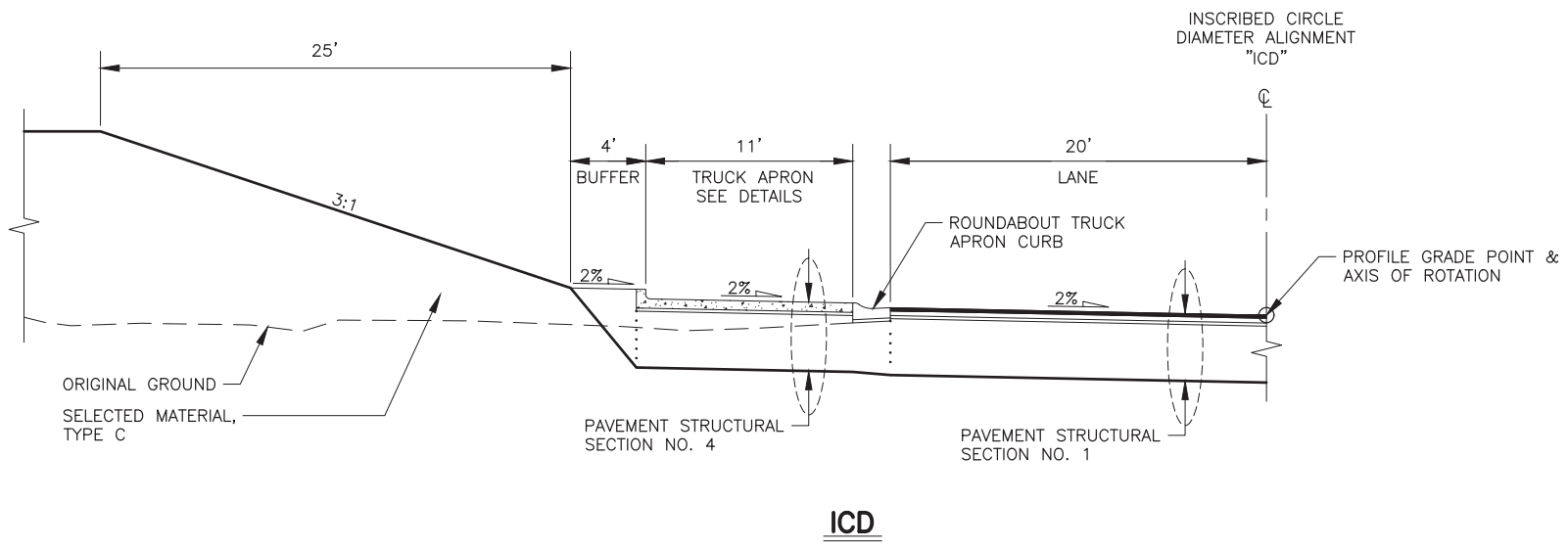
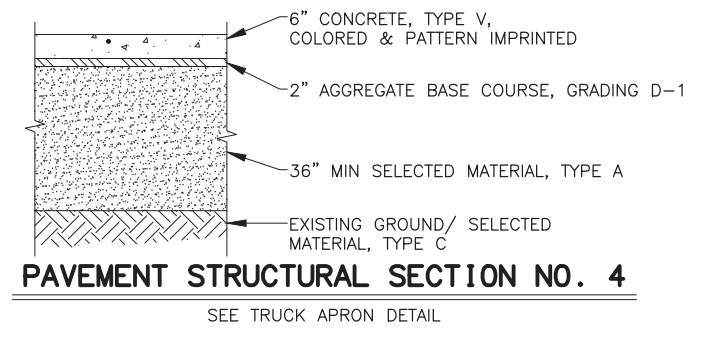
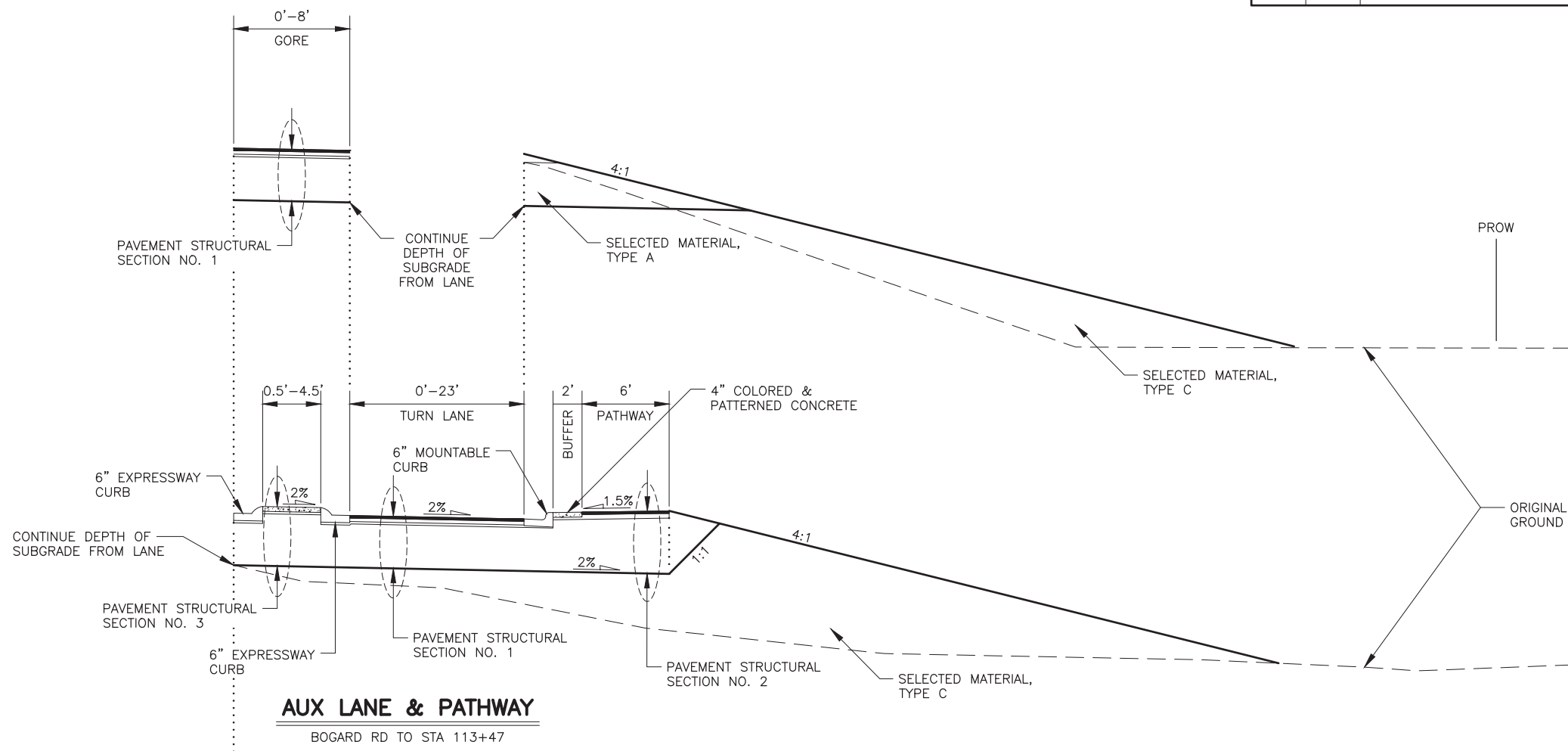
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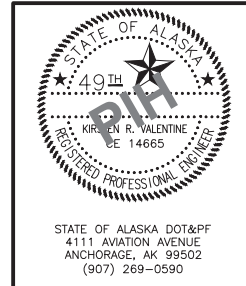
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

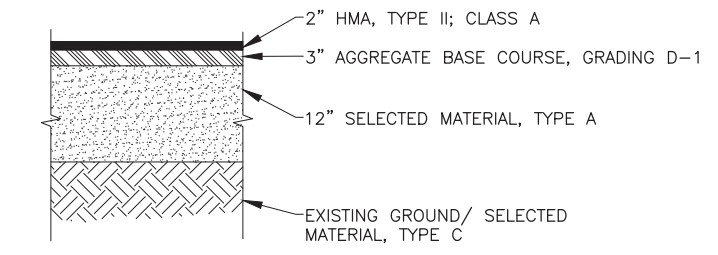
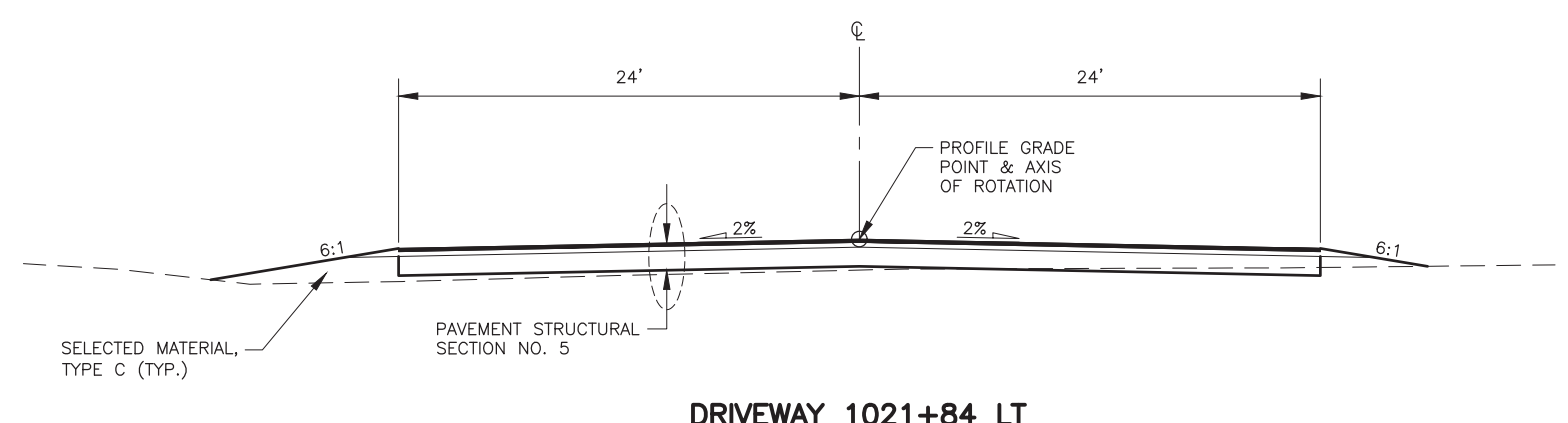
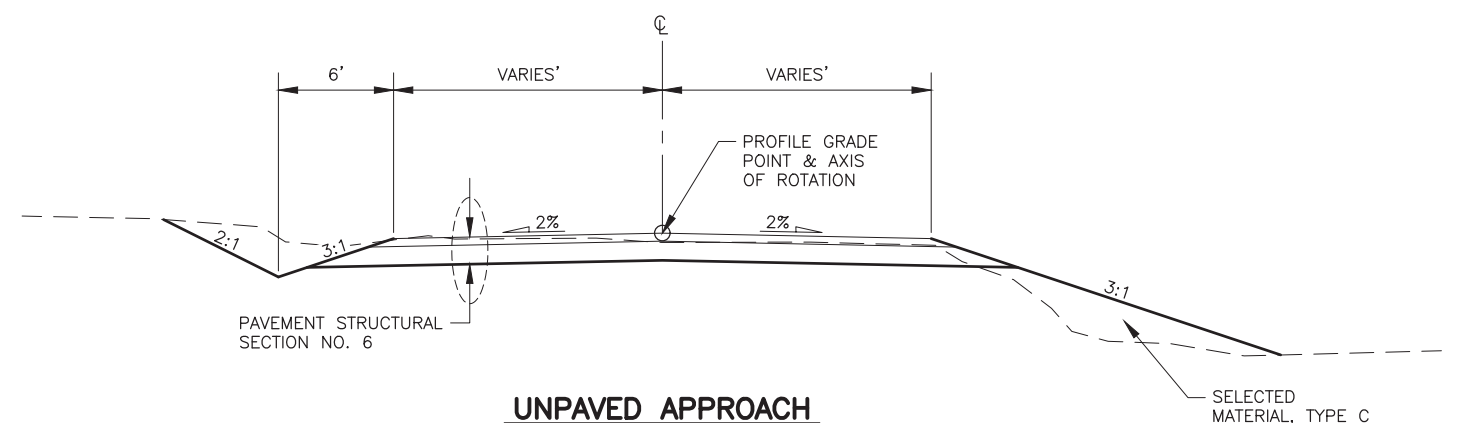
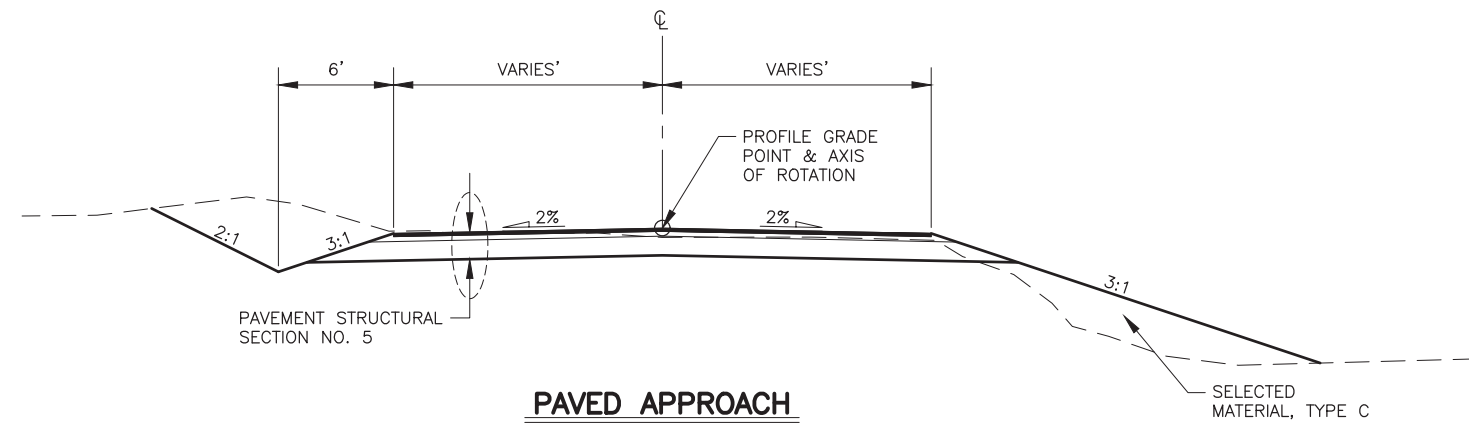
**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP**

TYPICAL SECTIONS

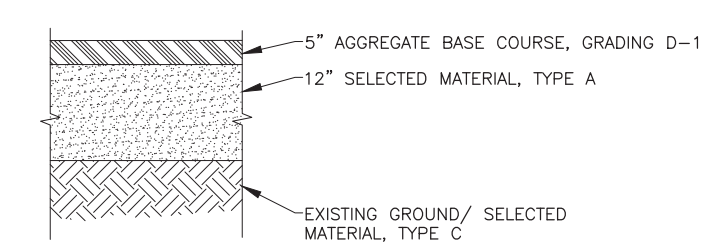
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001630/CFHWY00453	2024	B05	B05

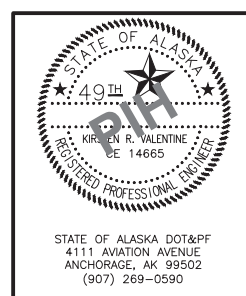
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 KRV
 PGH
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 CHECKED BY
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PAVEMENT STRUCTURAL SECTION NO. 5



PAVEMENT STRUCTURAL SECTION NO. 6



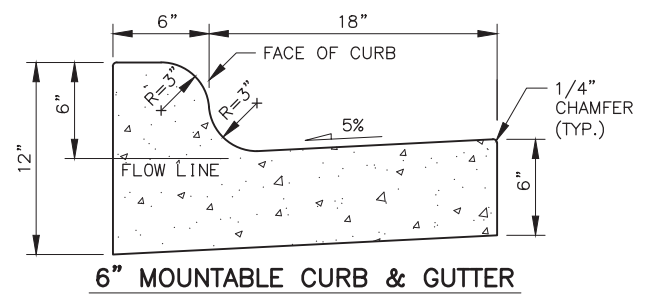
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP**

TYPICAL SECTIONS

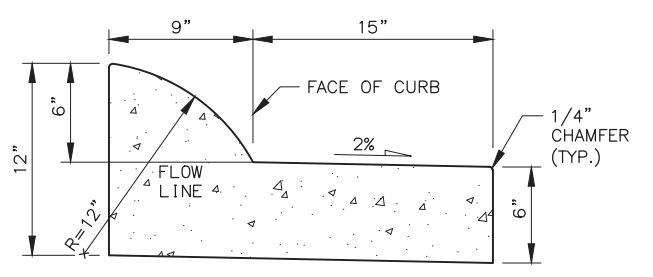
STATE OF ALASKA DOT&PF
 4111 AVIATION AVENUE
 ANCHORAGE, AK 99502
 (907) 269-0590

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001630/CFHWY00453	2024	E03	E06

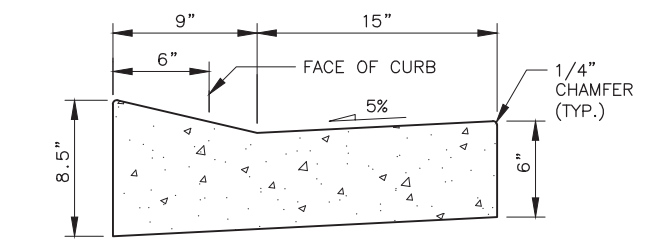
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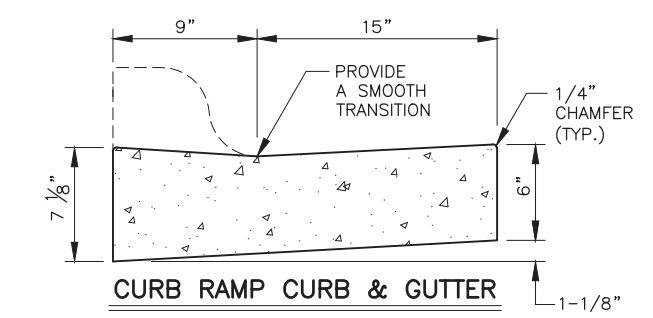
6" MOUNTABLE CURB & GUTTER



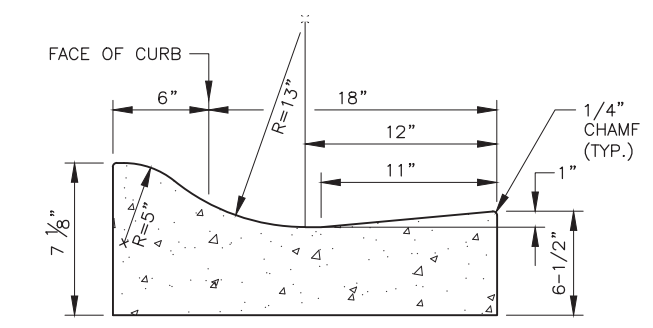
EXPRESSWAY CURB & GUTTER



DEPRESSED CURB & GUTTER (CURB CUT)



CURB RAMP CURB & GUTTER

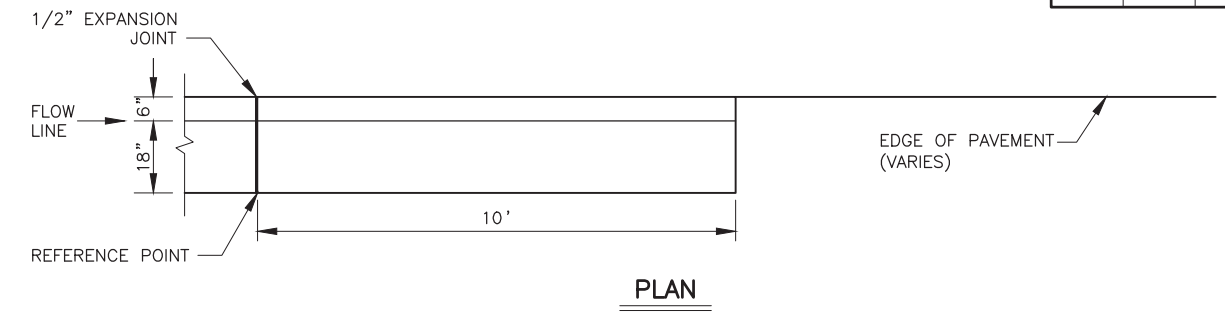


TRUCK APRON CURB & GUTTER

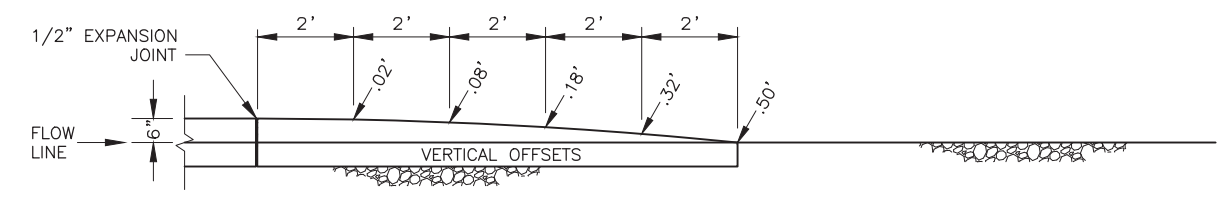
CURBS

CURB NOTE:

MOUNTABLE, DEPRESSED, ROLLED, AND EXPRESSWAY GUTTER PANS SHALL MATCH THE ROADWAY CROSS SLOPE IN THE HIGH SIDE OF SUPER ELEVATED AREAS.

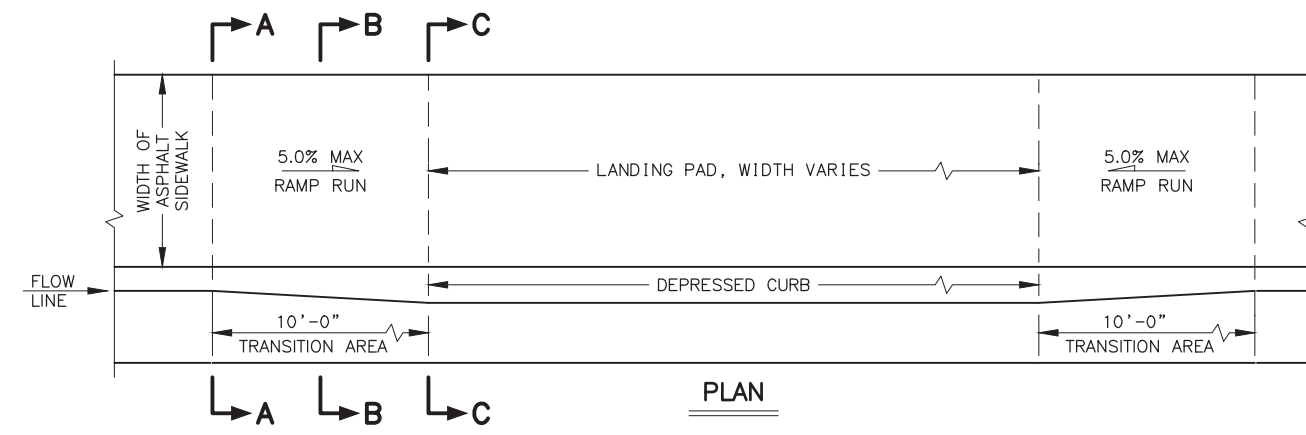


PLAN

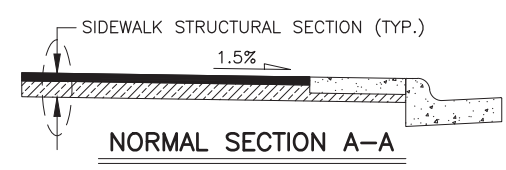


PROFILE

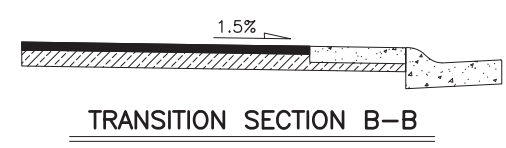
CURB & GUTTER TERMINATION TRANSITIONS



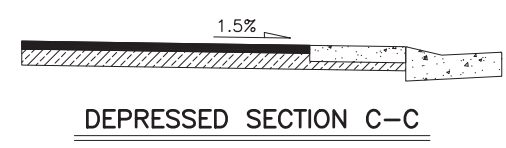
PLAN



NORMAL SECTION A-A



TRANSITION SECTION B-B

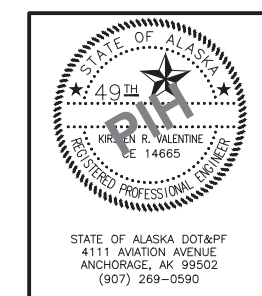


DEPRESSED SECTION C-C

CURB CUT NOTES:

1. TRANSITION WIDTH IS SHOWN FOR 6 INCH HIGH CURB & GUTTER.
2. WHERE THE SIDEWALK SLOPE MAKES IT NECESSARY TO LENGTHEN A RAMP RUN TO AVOID EXCEEDING THE ALLOWABLE RAMP SLOPE, DO NOT EXCEED A RAMP LENGTH OF 15 FEET. THE SLOPE RESULTING FROM THAT RUN LENGTH IS ACCEPTABLE, EVEN IF IT EXCEEDS THE MAXIMUM SLOPE SHOWN.
3. CONSTRUCT RAMP RUNS AND LANDINGS OF CONCRETE WHEN CONCRETE SIDEWALK IS PRESENT.
4. PROVIDE A BROOMED FINISH ON CONCRETE RAMP RUNS PERPENDICULAR TO THE RAMP SLOPE.
5. SEE B SHEETS FOR SIDEWALK STRUCTURAL SECTION.

VEHICULAR CURB CUT DETAILS

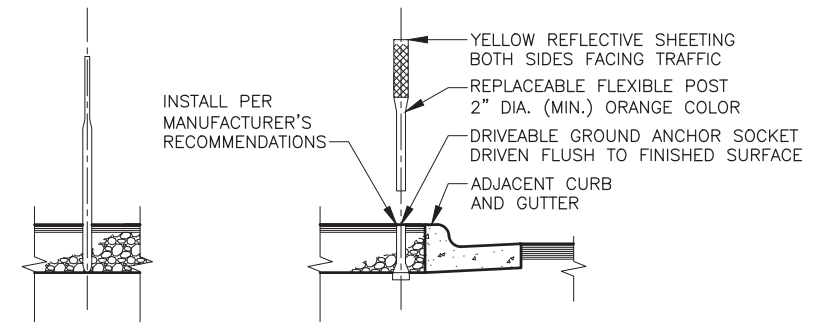


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP**
**VEHICULAR CURB CUT DETAILS
 CURB & GUTTER DETAILS**

STATE OF ALASKA DOT&PF
 4111 AVIATION AVENUE
 ANCHORAGE, AK 99502
 (907) 269-0590

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	001630/CFHWY00453	2024	E04	E06

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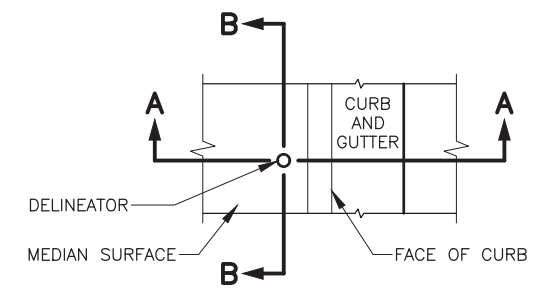


SECTION B-B

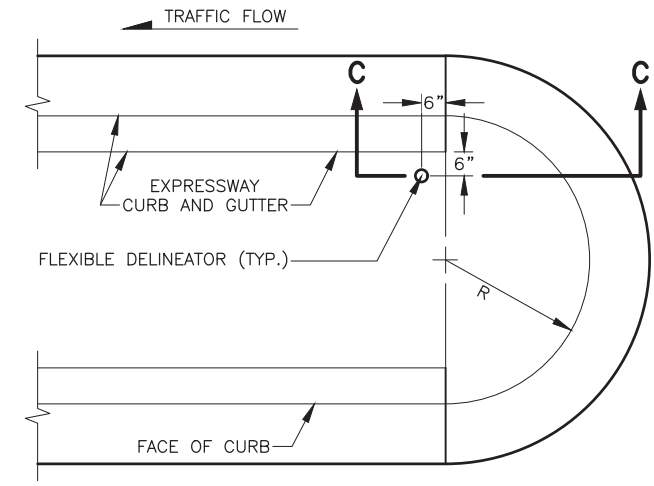
SECTION A-A

DELINEATOR NOTE:

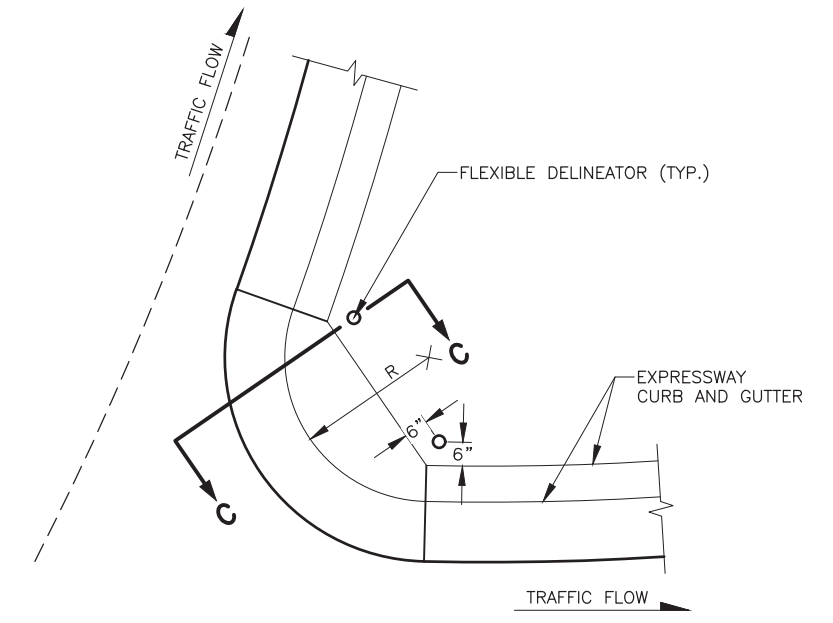
- CENTER POINT OF THE DELINEATOR SHALL BE 6 INCHES FROM THE BACK OF CURB.



FLEXIBLE DELINEATOR



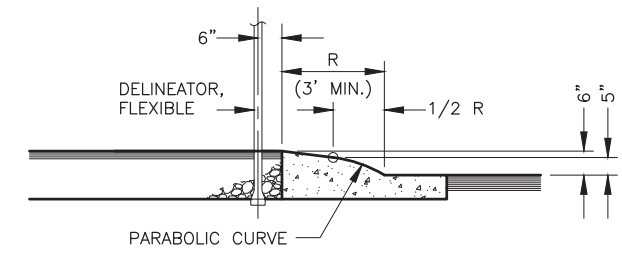
PLAN
NORMAL
MEDIAN NOSE



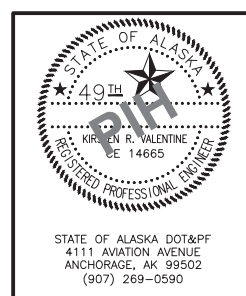
PLAN
ROUNDABOUT
MEDIAN NOSE

MEDIAN NOTES:

- MEDIAN NOSE SHALL BE PAINTED WITH YELLOW REFLECTORIZED PAINT. SHAPING AND PAINTING WILL BE SUBSIDIARY.
- INSTALL DELINEATOR 6 INCHES FROM TOP BACK OF CURB FOR ONCOMING TRAFFIC SIDE.



SECTION C-C
MEDIAN NOSE DETAIL



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

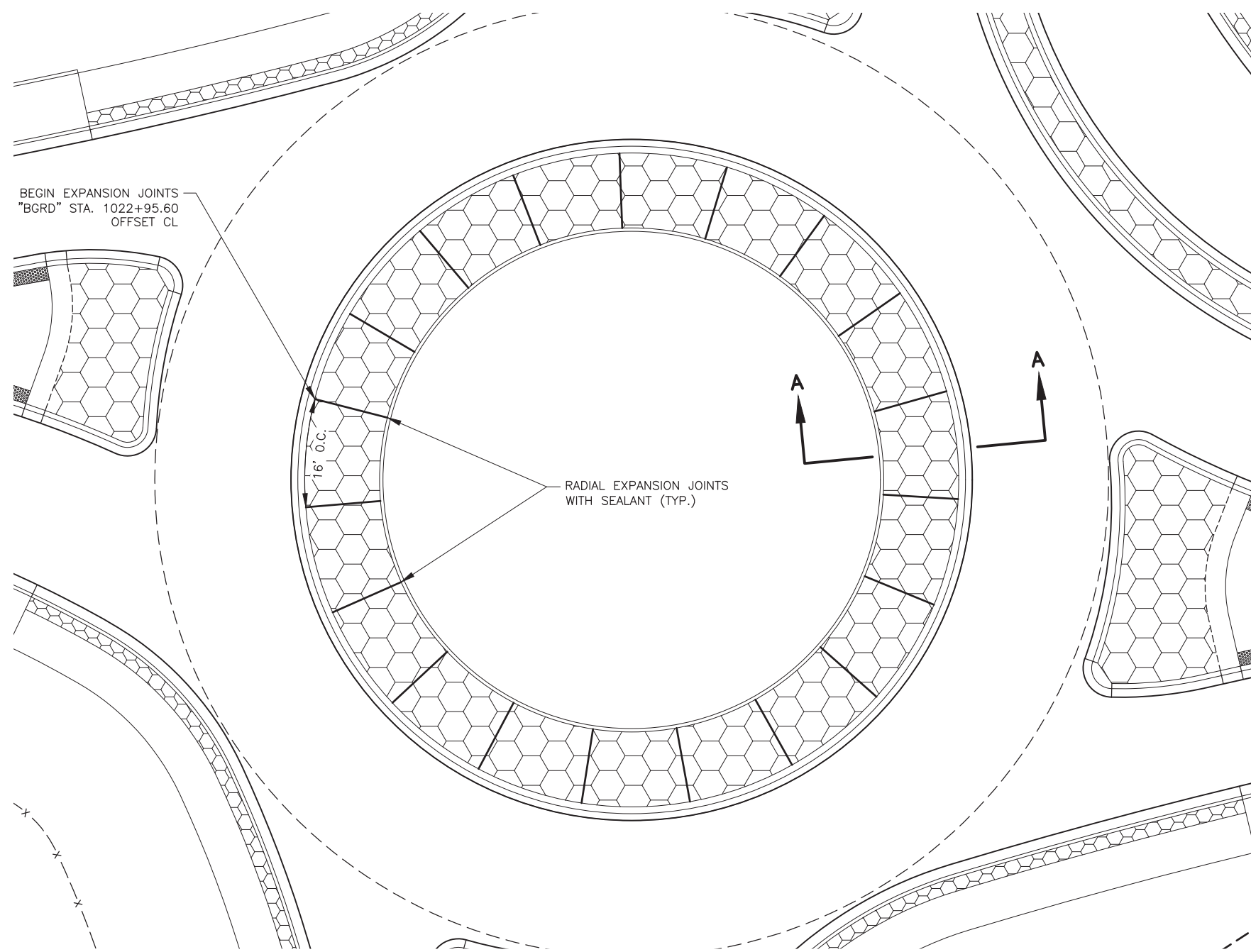
**HSIP: BOGARD RD AT
ENGSTROM RD & GREEN
FOREST DR INT IMP**

**FLEXIBLE DELINEATOR &
MEDIAN NOSE DETAILS**

STATE OF ALASKA DOT&PF
4111 AVIATION AVENUE
ANCHORAGE, AK 99502
(907) 269-0590

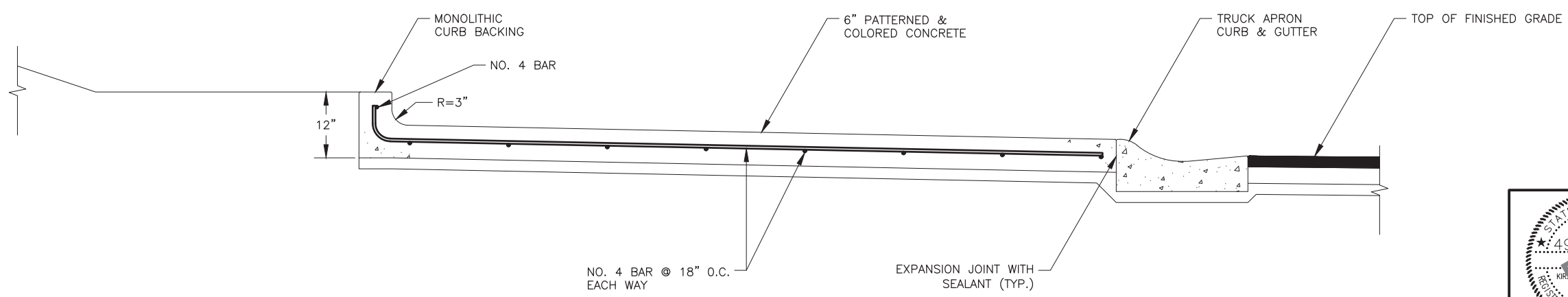
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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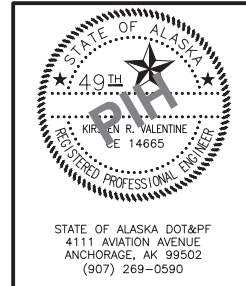


TRUCK APRON NOTES:

1. EPOXY-COATED ASTM A706, GRADE 60 REINFORCING STEEL, F_y = 60,000 PSI.
2. PLACE REINFORCEMENT 2.5" CLEAR FROM SURFACE OF CONCRETE.
3. CHAMFER ALL EXPOSED CONCRETE CORNERS 1/4".
4. PLACE EXPANSION JOINTS AS SHOWN ON THE PLANS AND SEAL EXPANSION JOINTS PER THE SPECIFICATIONS.
5. SEE B SHEETS FOR ROADWAY AND TRUCK APRON STRUCTURAL SECTIONS.



SECTION A-A



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
 TRUCK APRON
 EXPANSION JOIN AND
 REINFORCEMENT DETAILS**

STATE OF ALASKA DOT&PF
 4111 AVIATION AVENUE
 ANCHORAGE, AK 99502
 (907) 269-0590

DESIGNED BY: ZOK
 CHECKED BY: KRV
 DRAFTED BY: PGH

SCALE: 1" = 20'
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 TIME: 12:36 PM

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P.I. STA. 1009+73.58
 N = 157902.7382
 E = 456524.9146
 Δ = 017°13'53.2"
 T = 257.58'
 L = 511.27'
 R = 1700.00'
 S = AS BUILT 0.05

BEGIN PROJECT
 STA. 1011+75.00
MATCH EXISTING DITCH
 N 157989.0528
 E 456713.6537

STA. 1012+25.00
 OFFSET 24.0' LT
 BEGIN SPECIAL DITCH

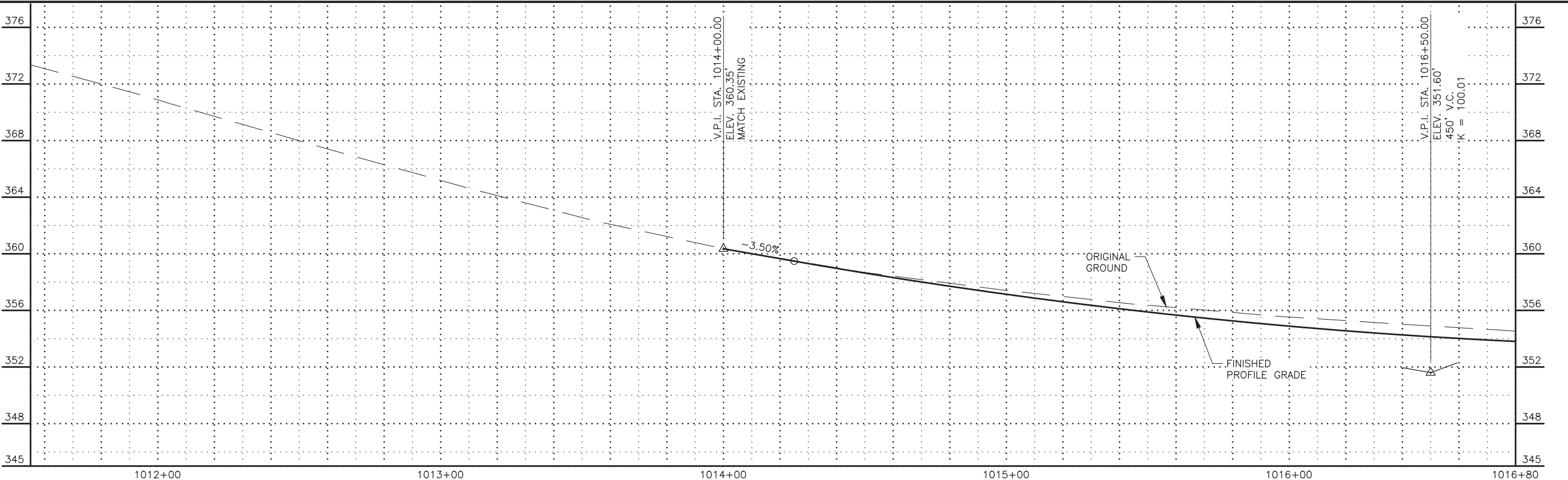
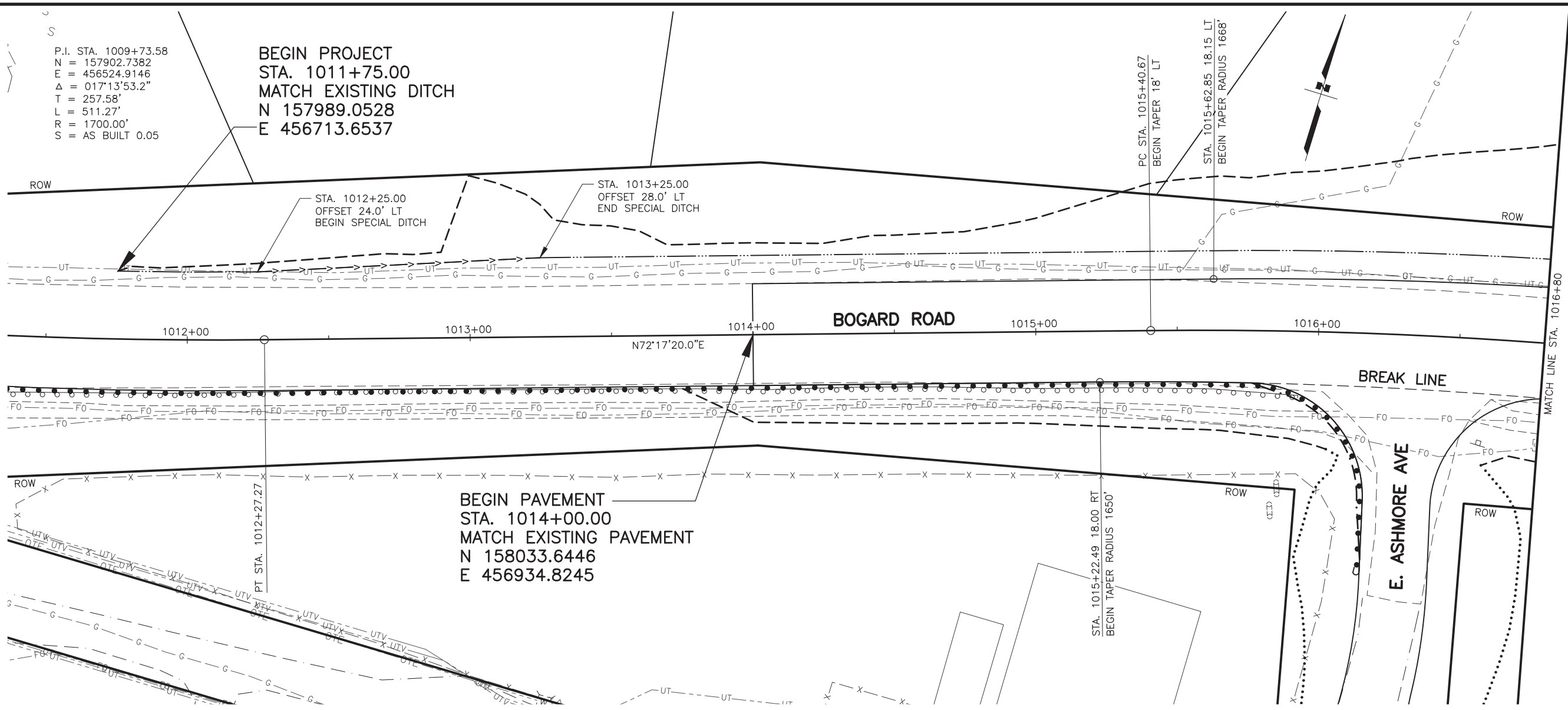
STA. 1013+25.00
 OFFSET 28.0' LT
 END SPECIAL DITCH

BEGIN PAVEMENT
 STA. 1014+00.00
MATCH EXISTING PAVEMENT
 N 158033.6446
 E 456934.8245

PC STA. 1015+40.67
 BEGIN TAPER 18' LT

STA. 1015+62.85 18.15 LT
 BEGIN TAPER RADIUS 1668'

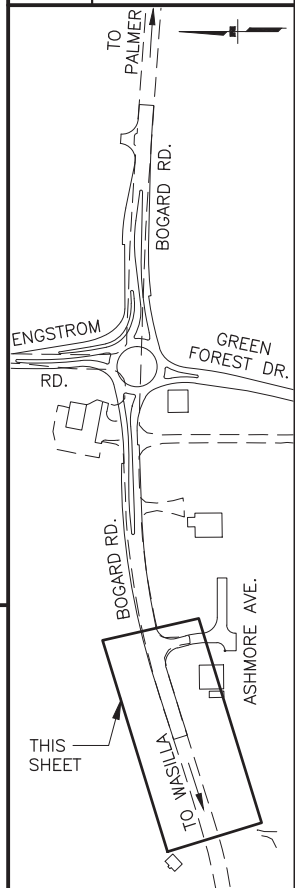
STA. 1015+22.49 18.00 RT
 BEGIN TAPER RADIUS 1650'



SHEET NO.	TOTAL SHEETS
F01	F14
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001630/
 CFHWY00453**

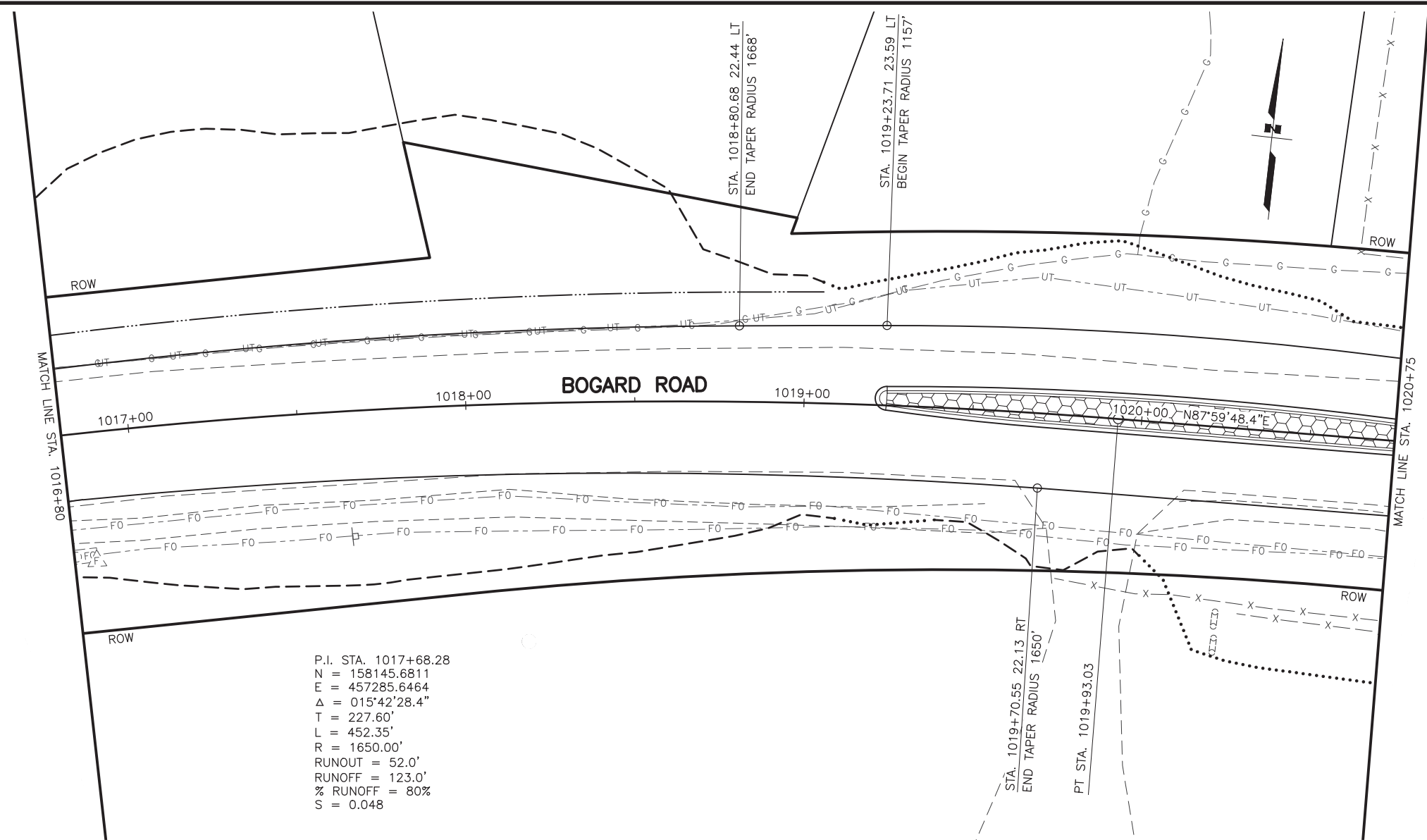
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NO.	REVISION
NO.	REVISION



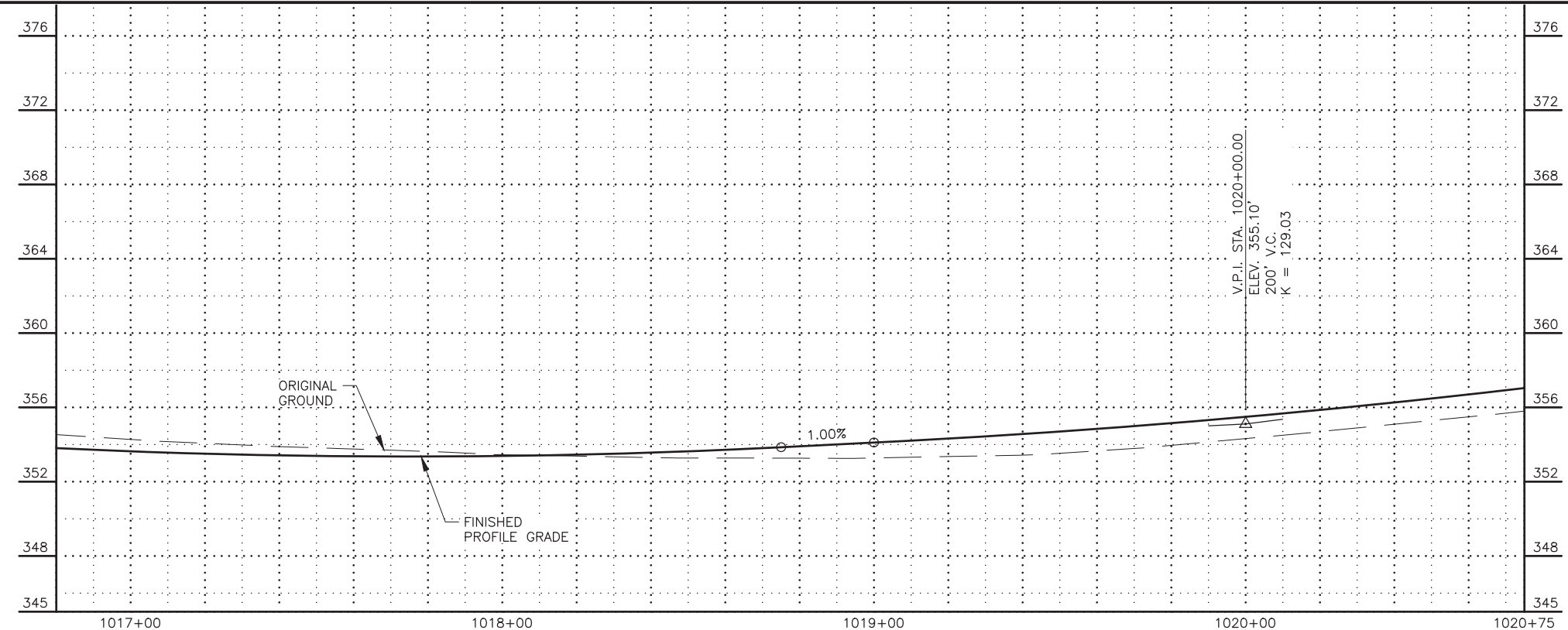
STATE OF ALASKA DOT&PF
 4111 AVIATION AVENUE
 ANCHORAGE, AK 99502
 (907) 269-0590

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
 PLAN AND PROFILE
 BOP TO
 STA. 1016+80**

ZDK
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 CHECKED BY
 DRAFTED BY
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 TIME
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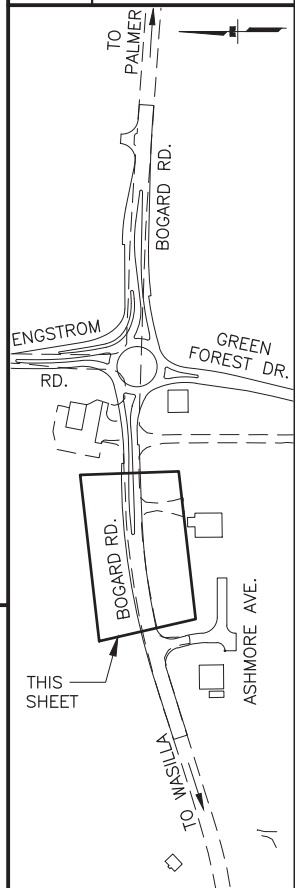
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 N = 158145.6811
 E = 457285.6464
 $\Delta = 015^{\circ}42'28.4''$
 T = 227.60'
 L = 452.35'
 R = 1650.00'
 RUNOUT = 52.0'
 RUNOFF = 123.0'
 % RUNOFF = 80%
 S = 0.048



SHEET NO.	TOTAL SHEETS
F02	F14
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001630/
 CFHWY00453**

NO.	REVISION



STATE OF ALASKA DOT&PF
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 (907) 269-0590

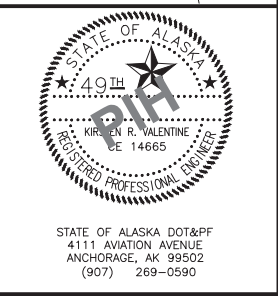
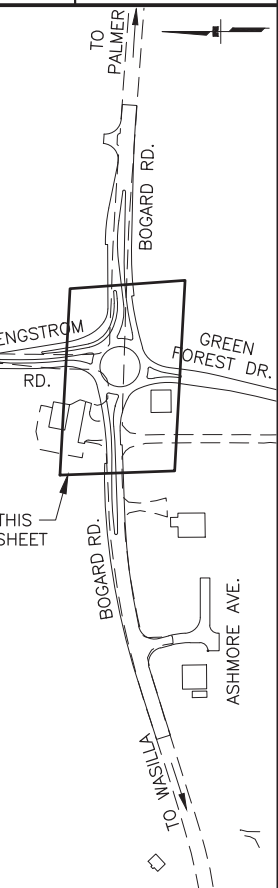
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
 PLAN AND PROFILE
 STA. 1016+80 TO
 STA. 1020+75**

ZDK
 DESIGNED BY
 CHECKED BY
 DRAFTED BY
 SCALE
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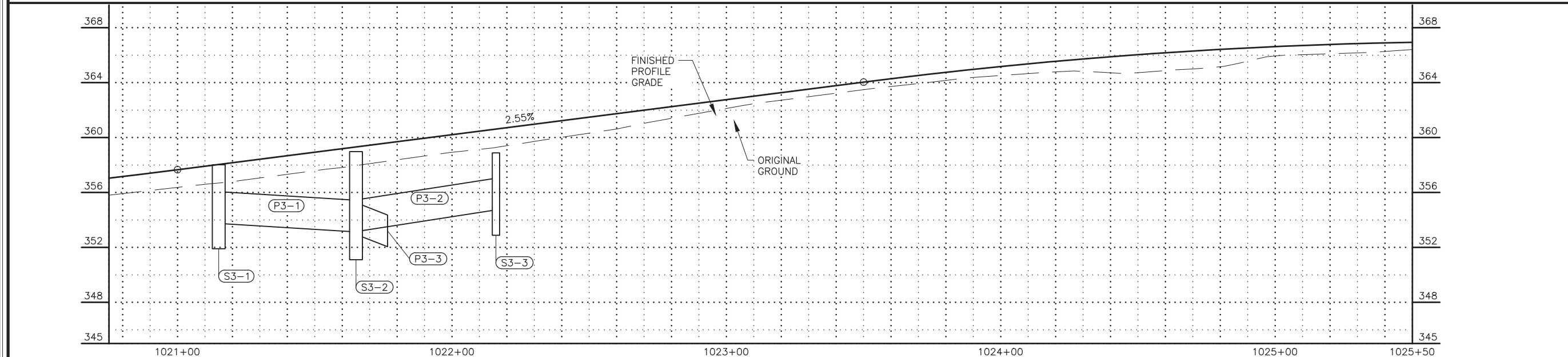
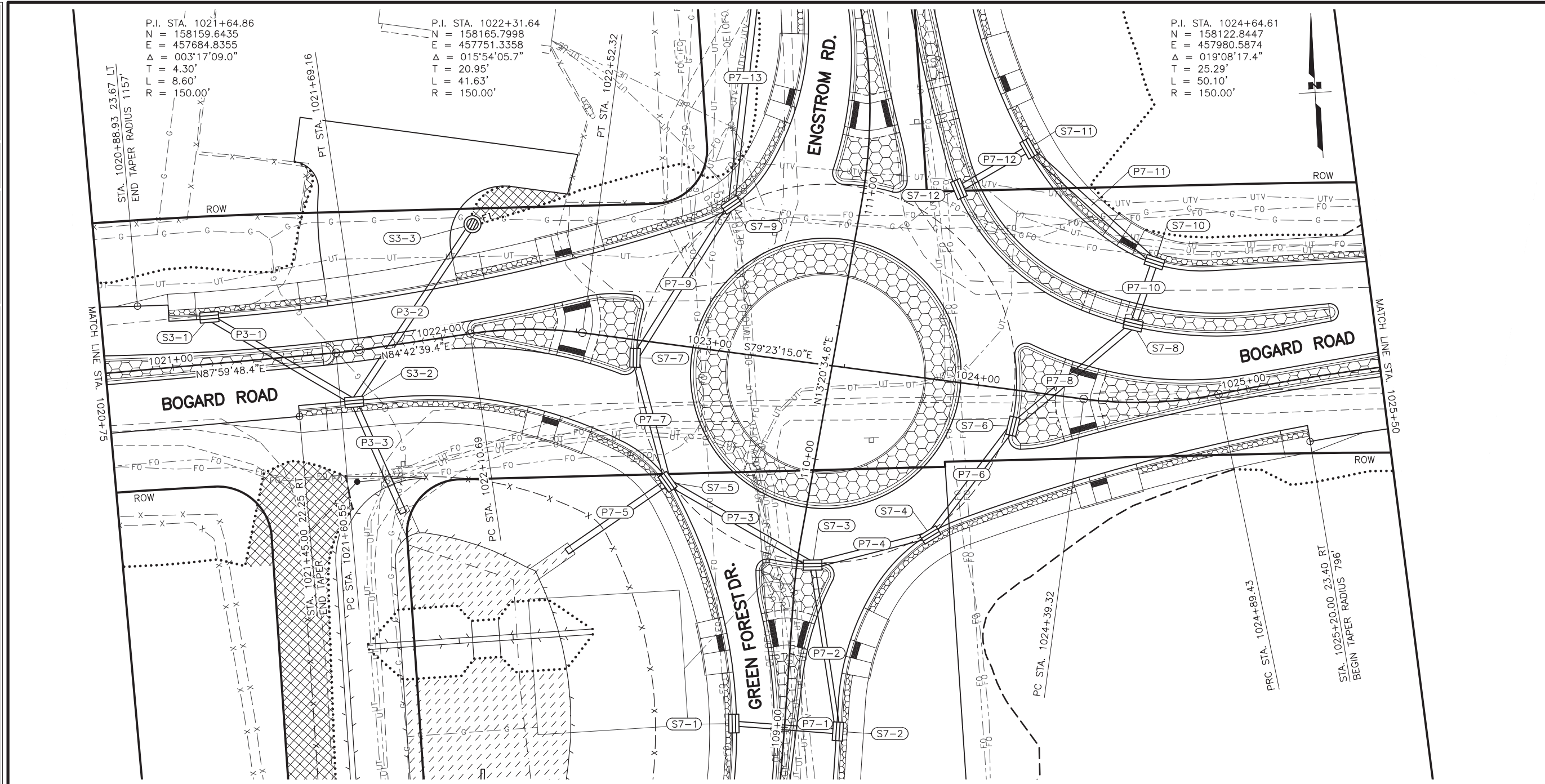
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F03	F14
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001630/
 CFHWY00453**

NO.	REVISION



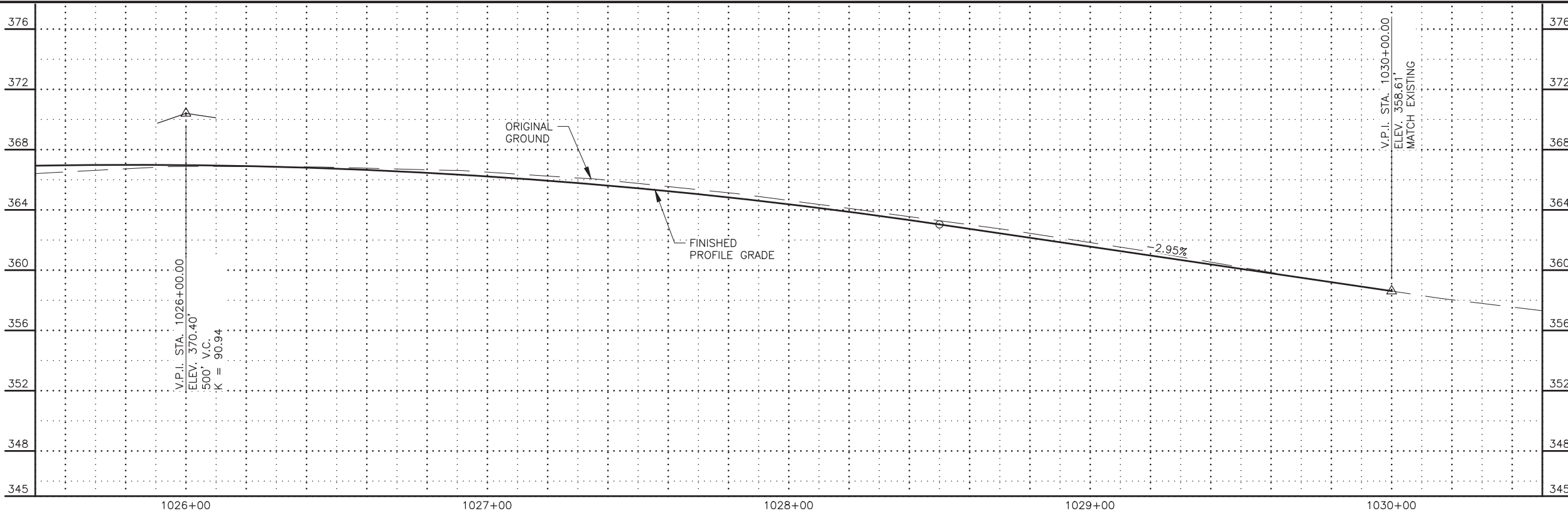
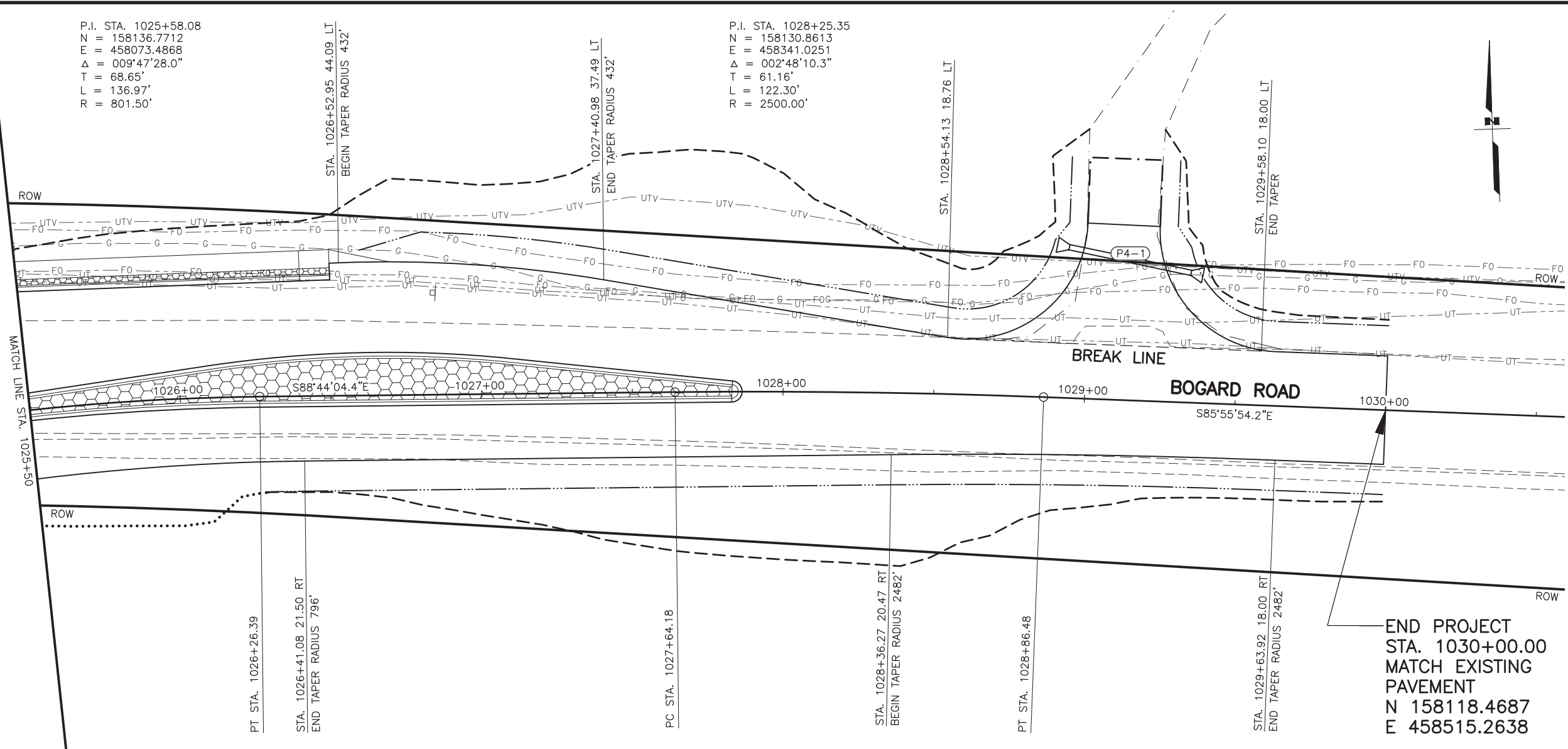
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
 PLAN AND PROFILE
 STA. 1020+75 TO
 STA. 1025+50**



DRAWING LOCATION: W:\PROJECTS\HSIP\BOGARD_ENGSTROM_RA - CFHWY00453\CIV3D\PLANSET\00453_F_PNP.DWG
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 TIME: 12:36 PM
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 DESIGNED BY: ZDK
 CHECKED BY: KRV
 DRAFTED BY: PGH

P.I. STA. 1025+58.08
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 E = 458073.4868
 $\Delta = 009^{\circ}47'28.0''$
 T = 68.65'
 L = 136.97'
 R = 801.50'

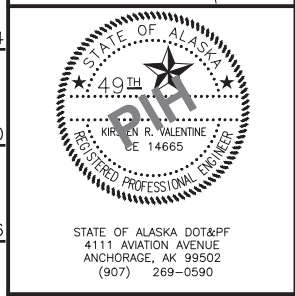
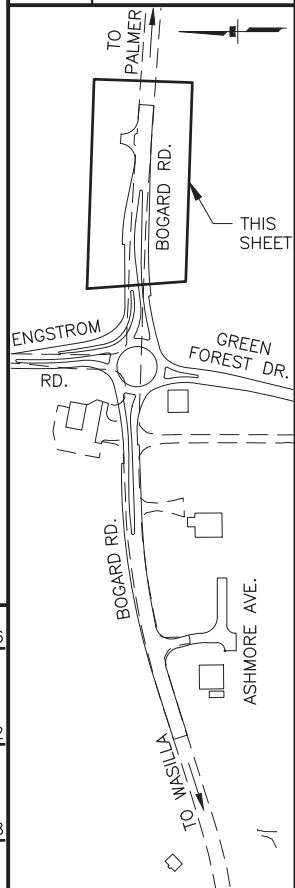
P.I. STA. 1028+25.35
 N = 158130.8613
 E = 458341.0251
 $\Delta = 002^{\circ}48'10.3''$
 T = 61.16'
 L = 122.30'
 R = 2500.00'



SHEET NO.	TOTAL SHEETS
F04	F14
STATE	YEAR
ALASKA	2024

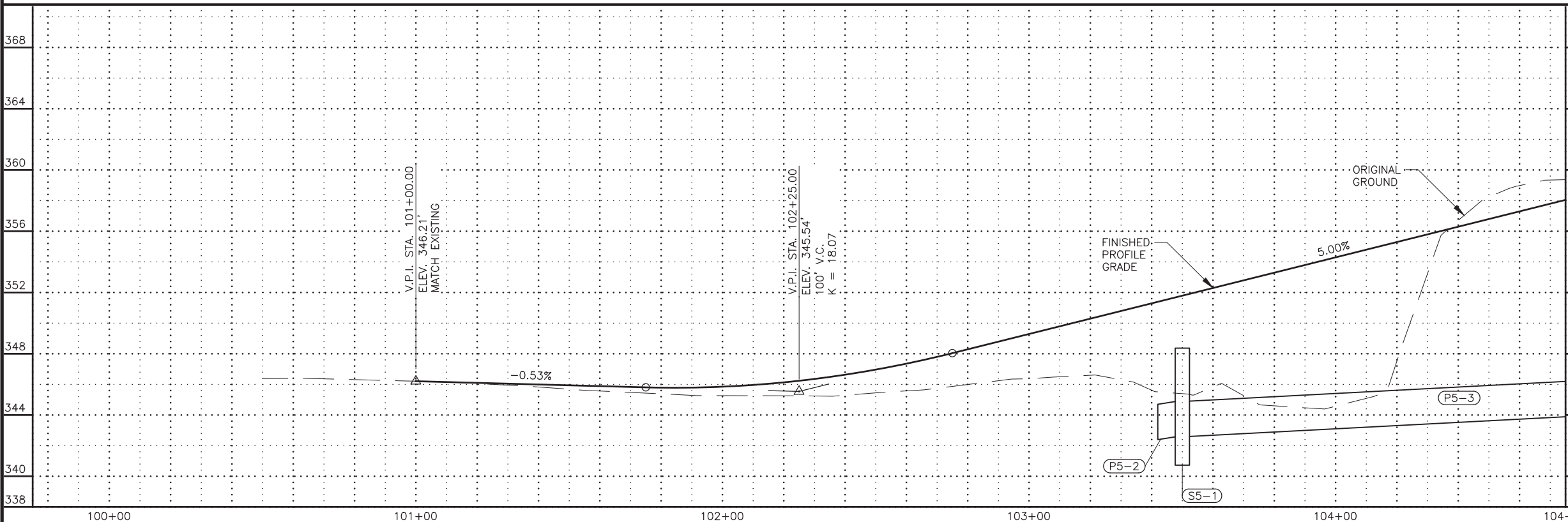
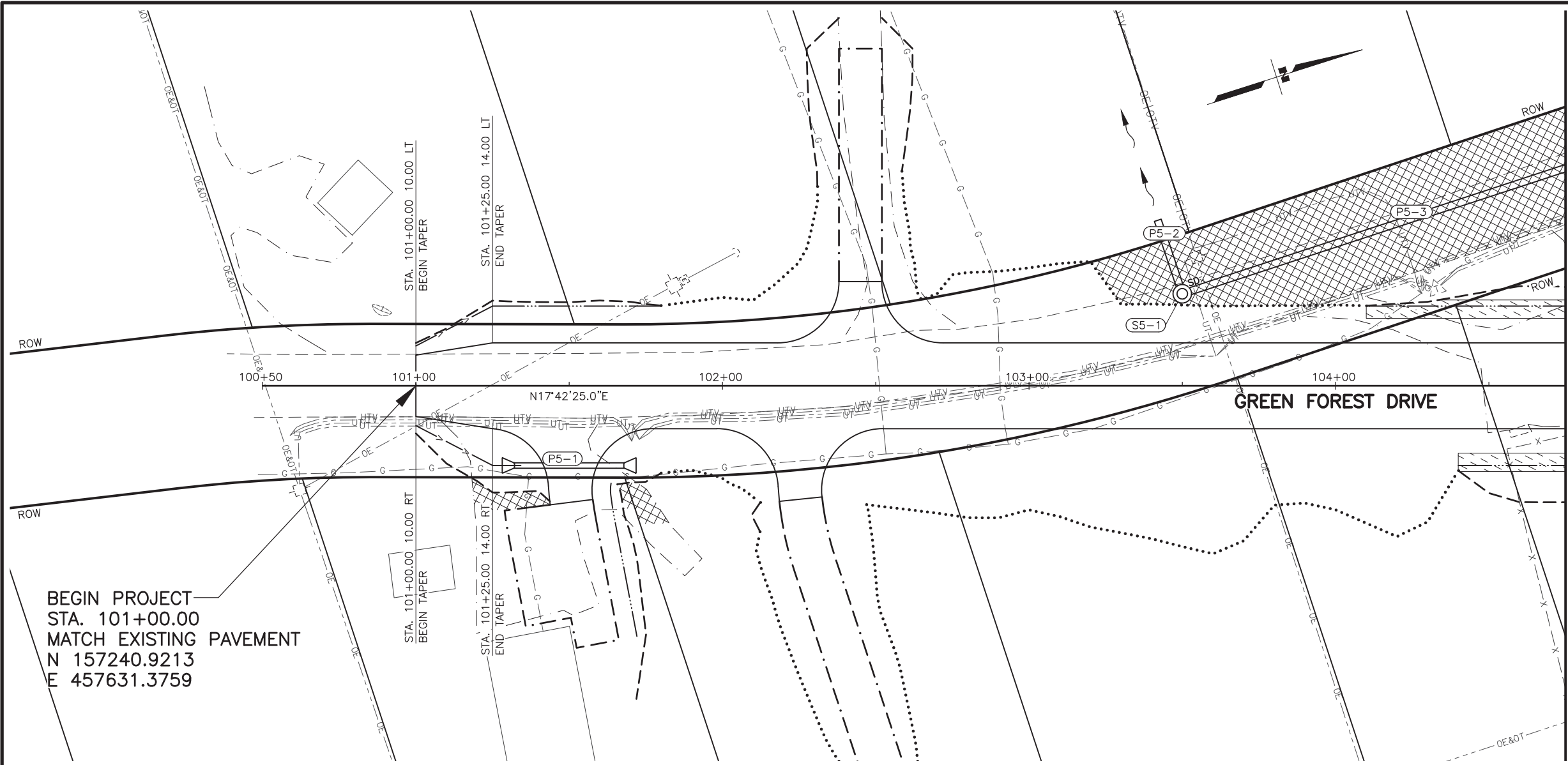
PROJECT DESIGNATION
**0001630/
 CFHWY00453**

NO.	REVISION



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
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 ENGSTROM RD & GREEN
 FOREST DR INT IMP
 PLAN AND PROFILE
 STA. 1025+50 TO
 EOP**

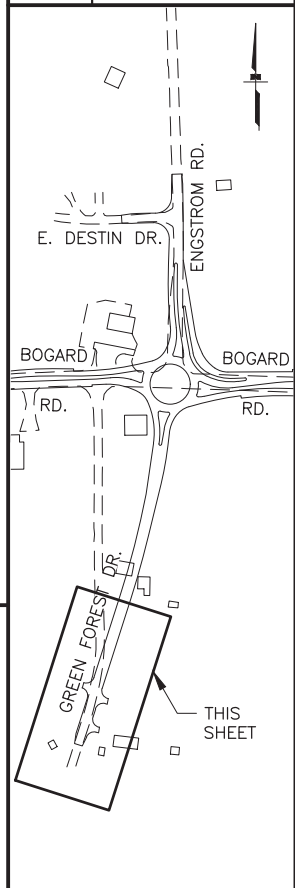
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SHEET NO.	TOTAL SHEETS
F05	F14
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001630/
 CFHWY00453**

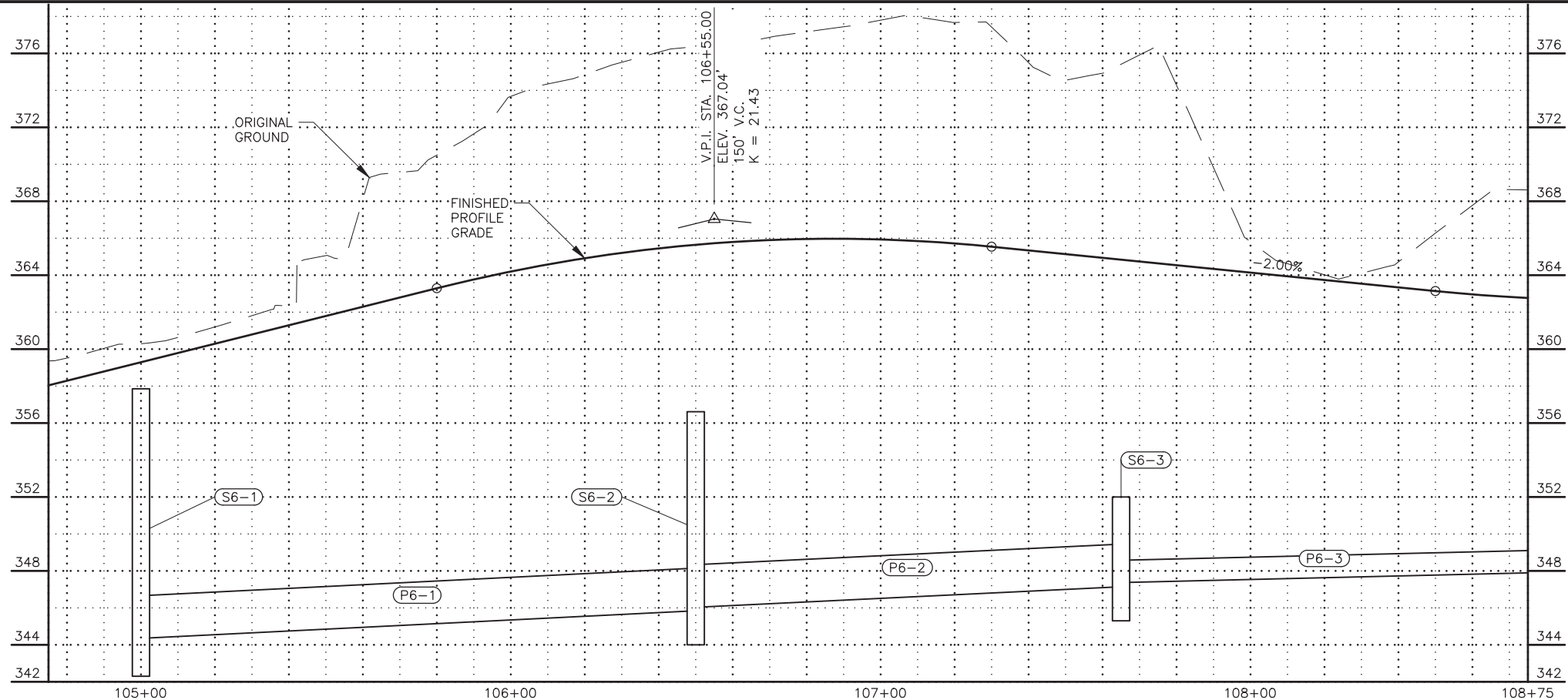
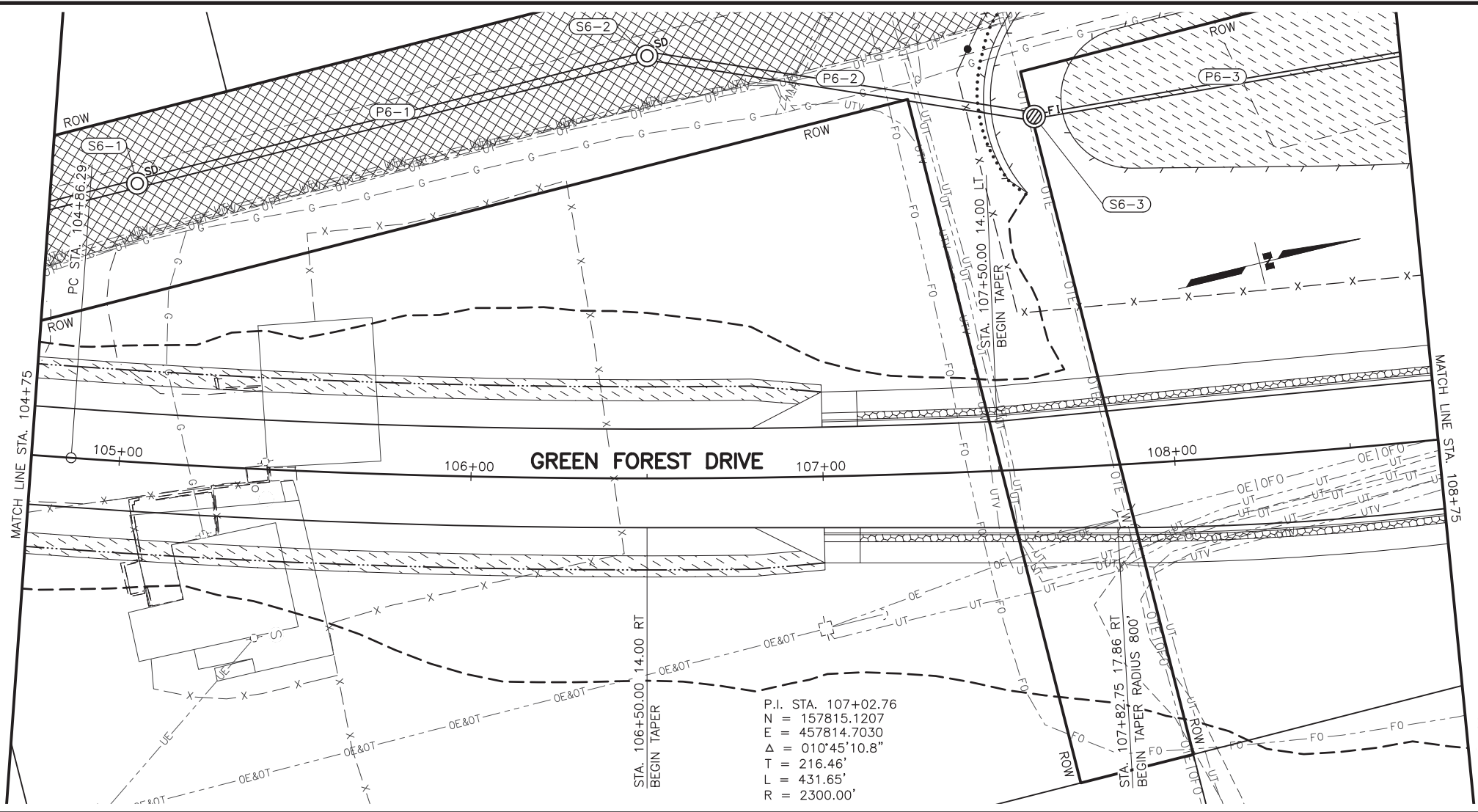
NO.	REVISION



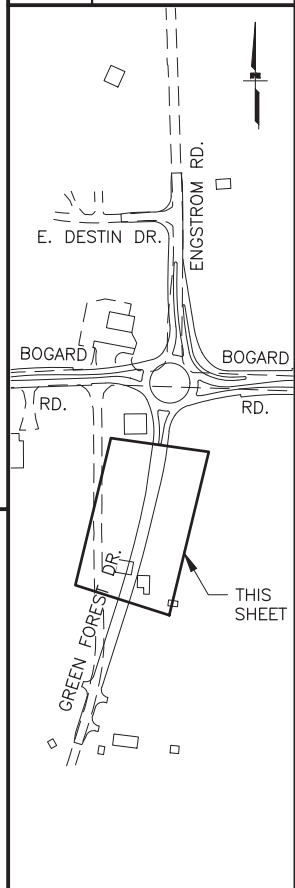
STATE OF ALASKA DOT&PF
 4111 AVIATION AVENUE
 ANCHORAGE, AK 99502
 (907) 269-0590

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
**PLAN AND PROFILE
 BOP TO
 STA. 104+75**

ZDK
 KRV
 PGH
 DESIGNED BY
 CHECKED BY
 DRAFTED BY
 SCALE
 1" = 20'
 TIME
 DATE
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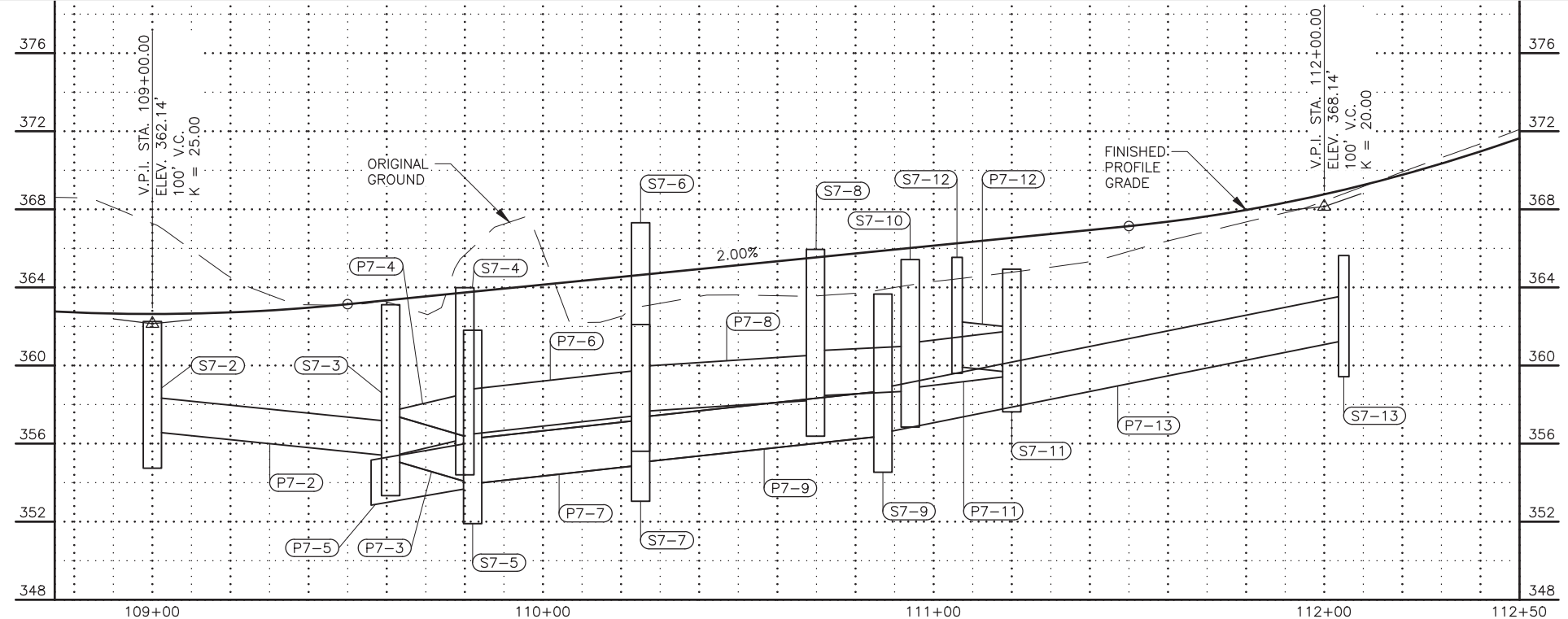
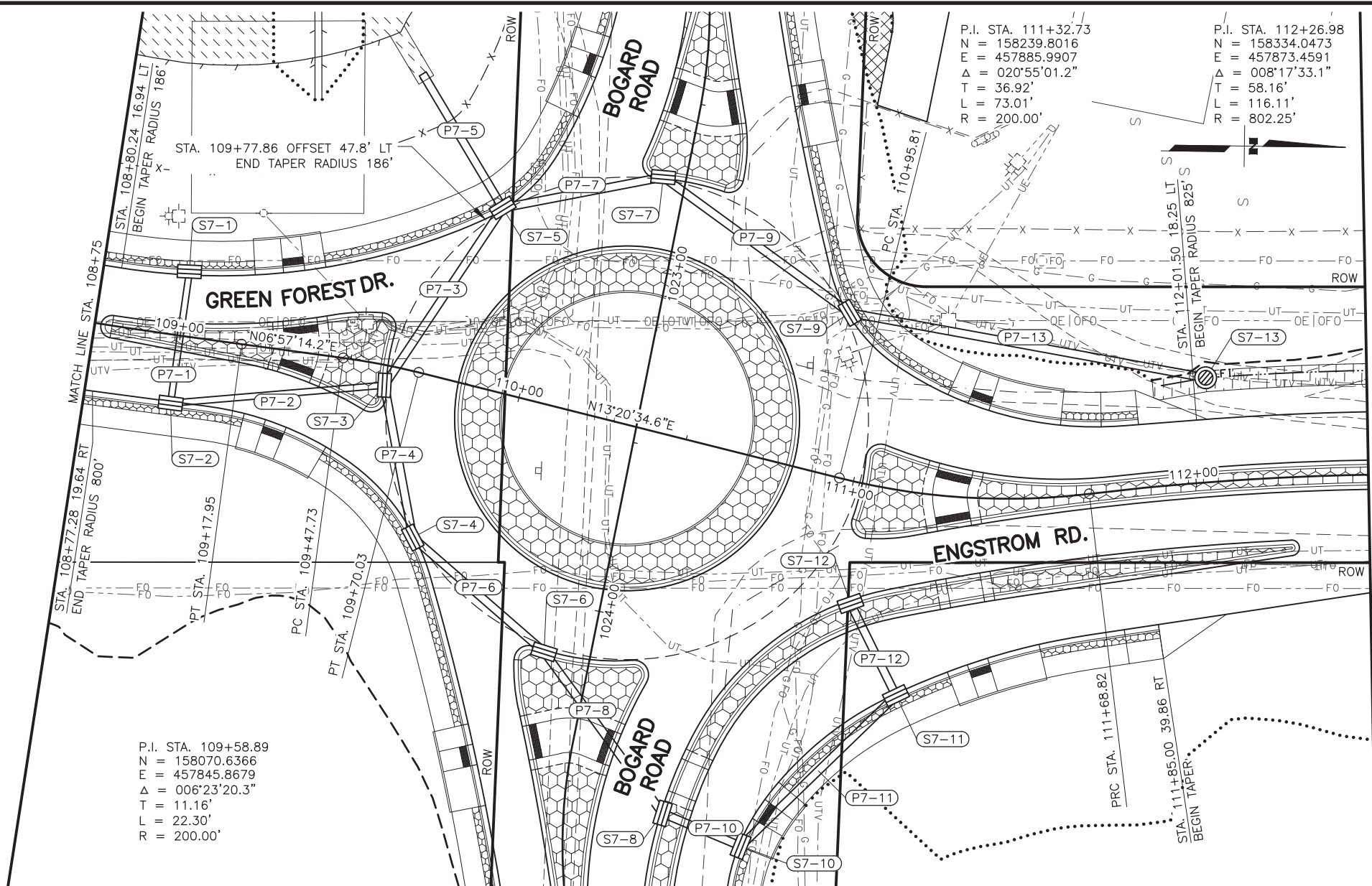
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DATE	
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DATE	



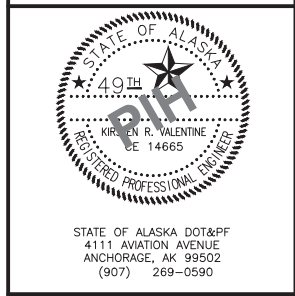
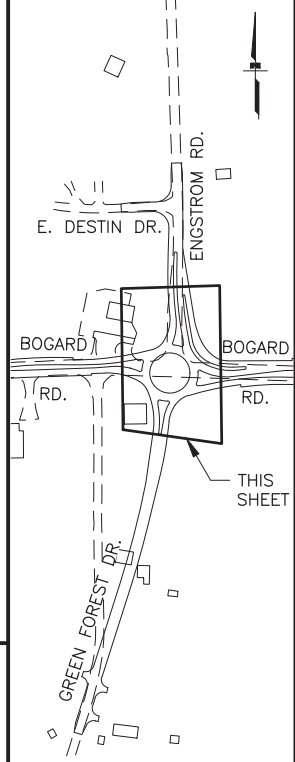
STATE OF ALASKA DOT&PF
 4111 AVIATION AVENUE
 ANCHORAGE, AK 99502
 (907) 269-0590

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
 PLAN AND PROFILE
 STA 104+75 TO
 STA 108+75

ZDK
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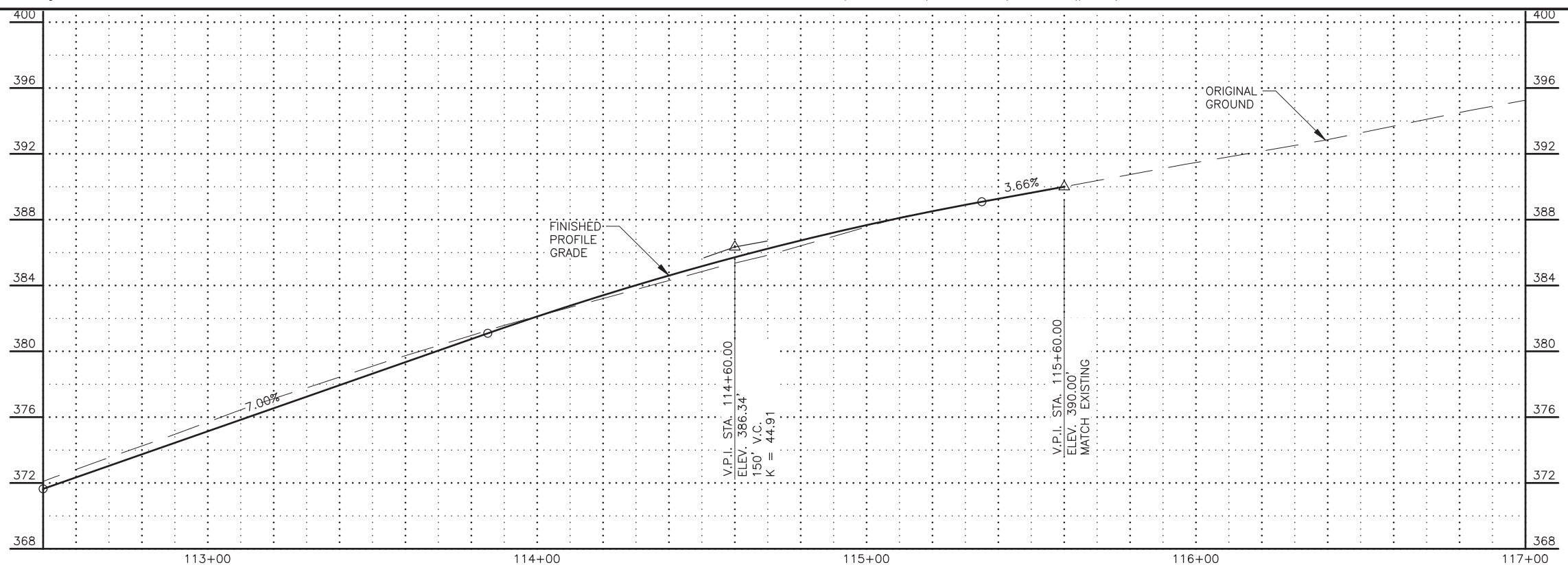
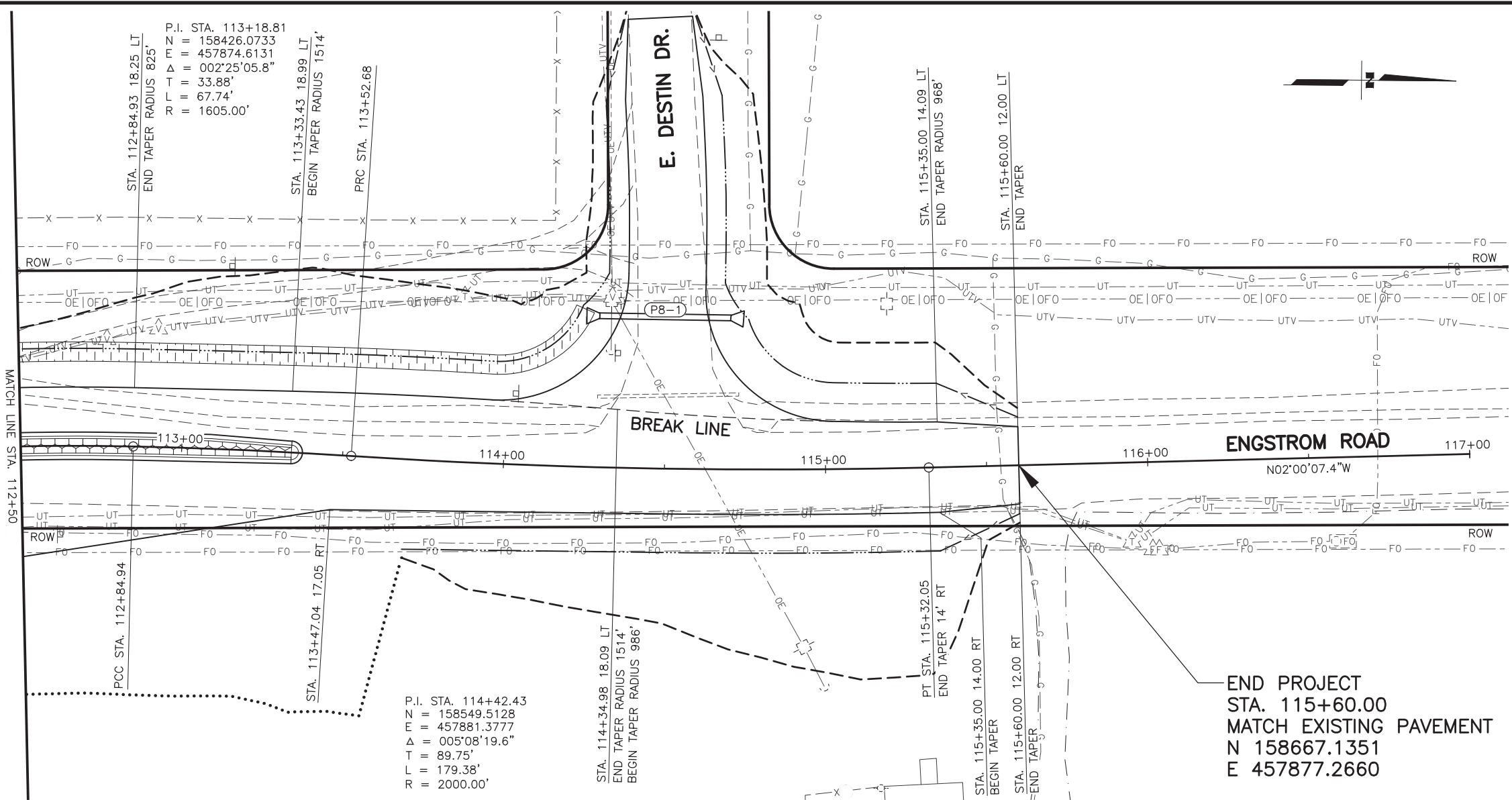


SHEET NO.	TOTAL SHEETS
F07	F14
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
0001630/ CFHWY00453	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
 PLAN AND PROFILE
 STA 108+75 TO
 STA 112+50

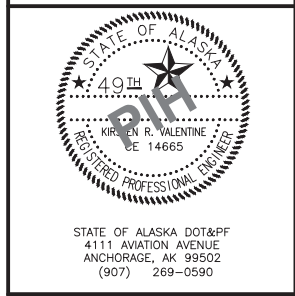
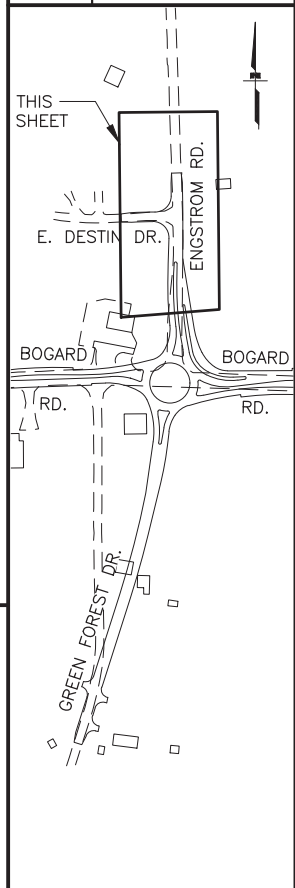
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SHEET NO.	TOTAL SHEETS
F08	F14
STATE	YEAR
ALASKA	2024

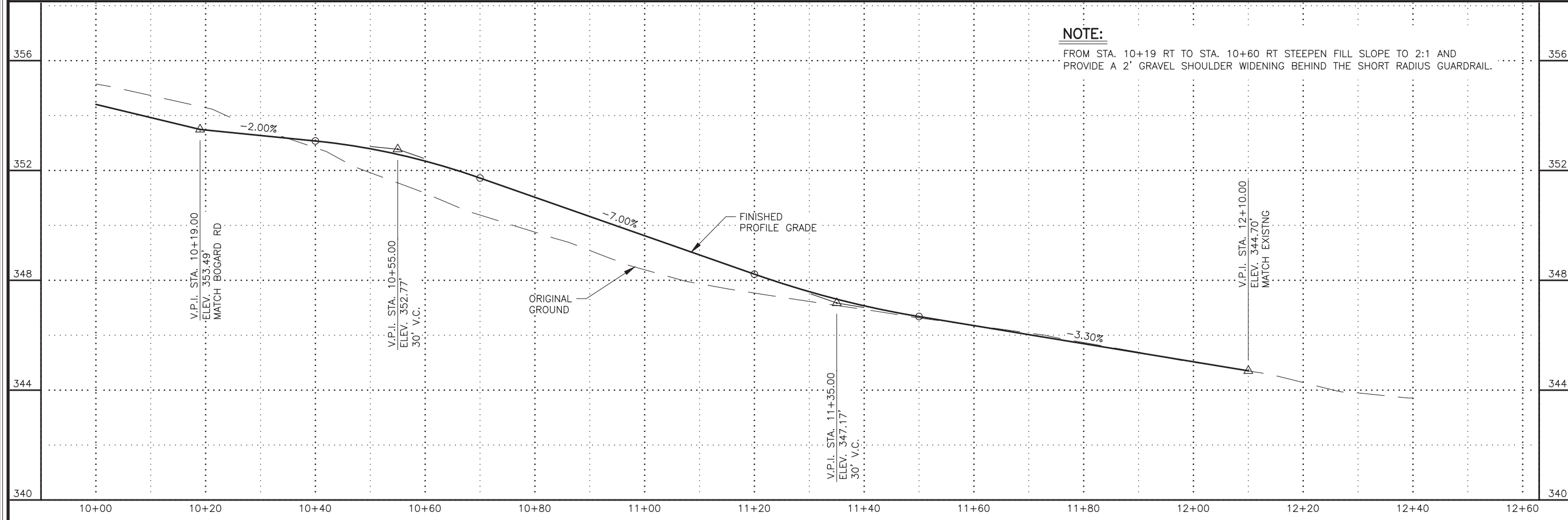
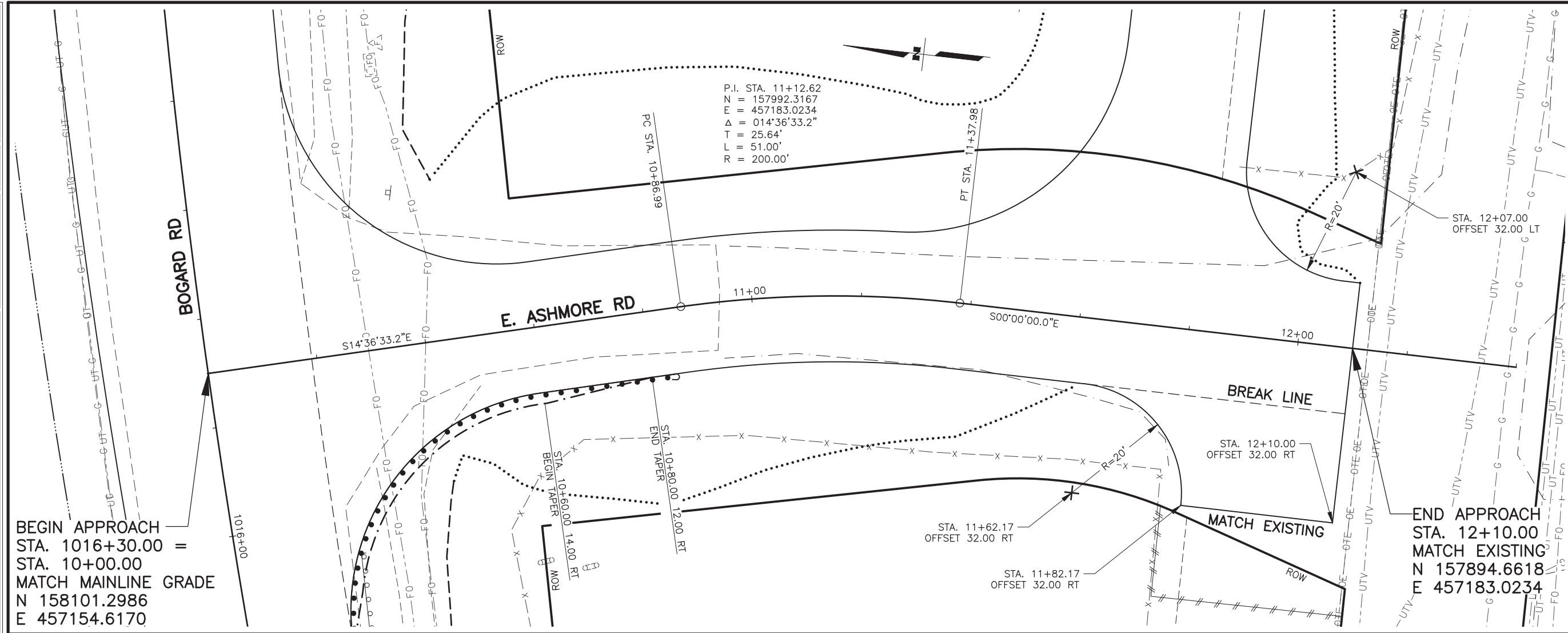
PROJECT DESIGNATION
**0001630/
 CFHWY00453**

NO.	REVISION

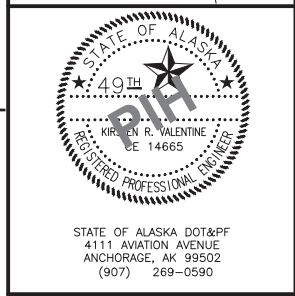
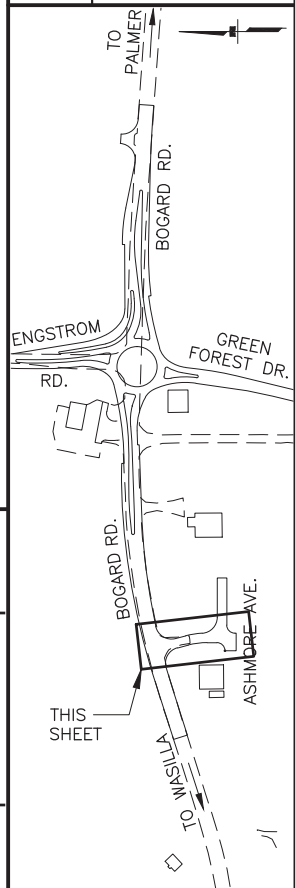


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
**PLAN AND PROFILE
 STA 112+75 TO
 EOP**

ZOK
 KRV
 PGH
 DESIGNED BY
 CHECKED BY
 DRAFTED BY
 SCALE
 1" = 20'
 DATE
 6/22/2022 12:37 PM
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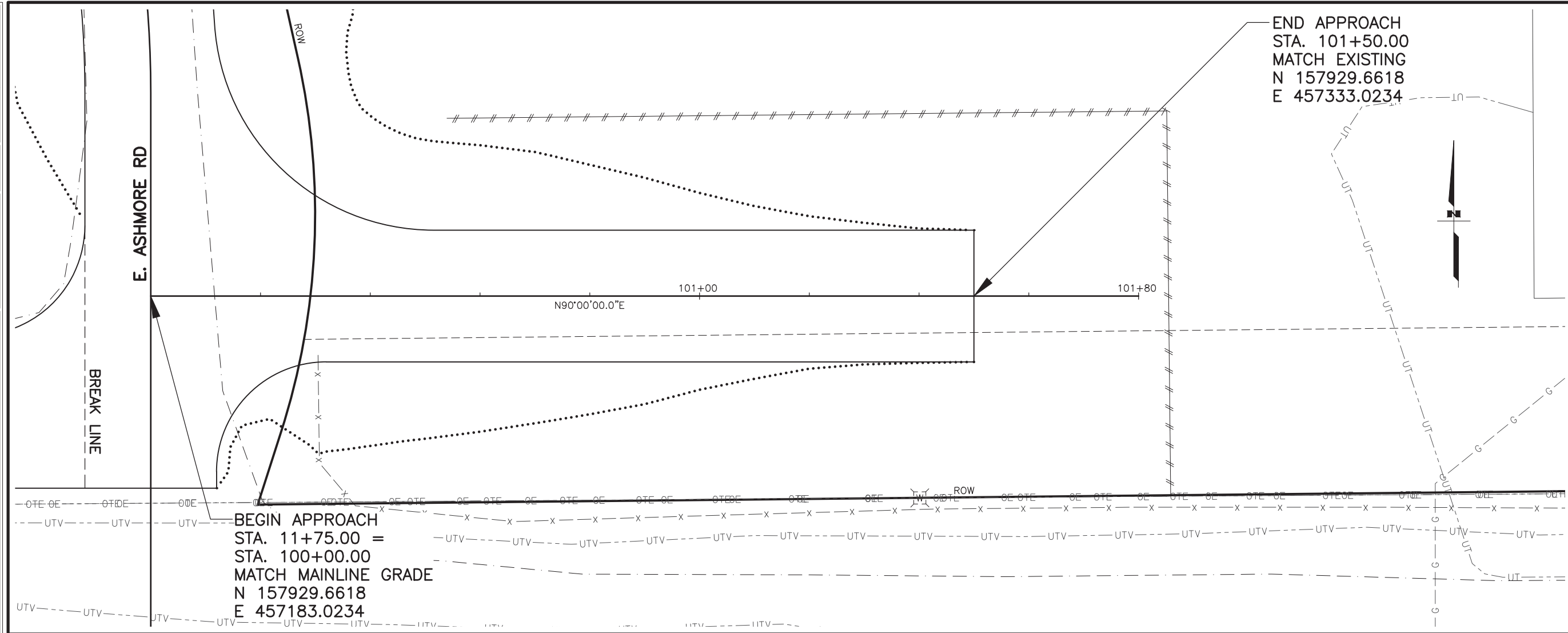


SHEET NO.	TOTAL SHEETS
F09	F14
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
0001630/ CFHWY00453	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



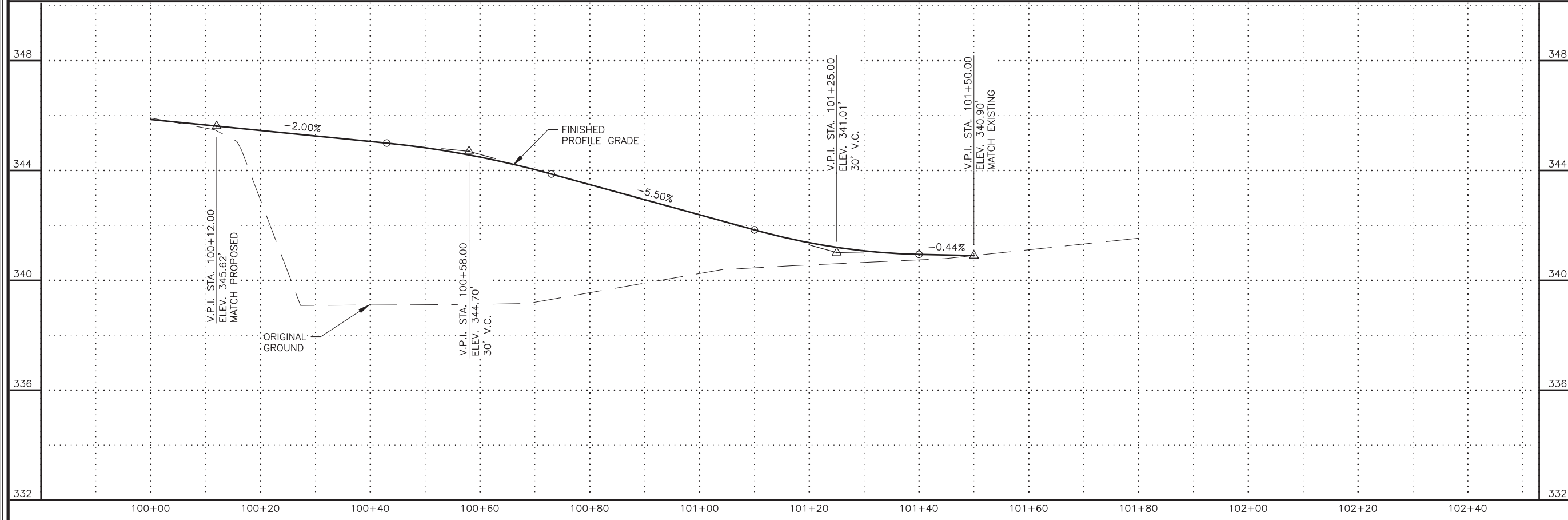
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 HSP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
 PLAN AND PROFILE
 DRIVEWAY
 STA. 1016+25 RT

ZOK
 DESIGNED BY
 CHECKED BY
 DRAFTED BY
 SCALE
 1" = 20'
 DATE
 6/22/2022 12:37 PM
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 DRAWING LOCATION
 W:\PROJECTS\HSIP BOGARD ENGSTROM RA - CFHWY00453\PLANSET\00453_F_PNP_APPROACH.DWG

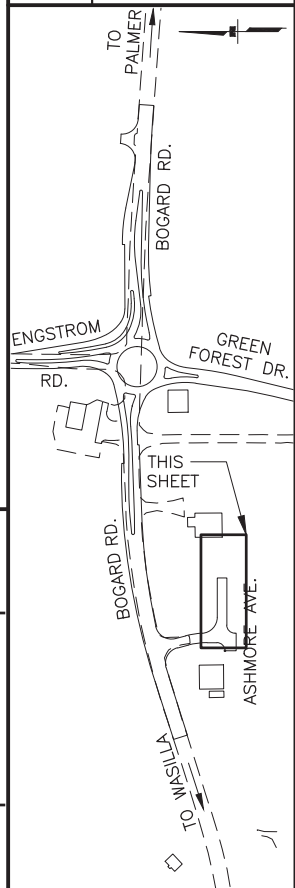


END APPROACH
 STA. 101+50.00
 MATCH EXISTING
 N 157929.6618
 E 457333.0234

BEGIN APPROACH
 STA. 11+75.00 =
 STA. 100+00.00
 MATCH MAINLINE GRADE
 N 157929.6618
 E 457183.0234



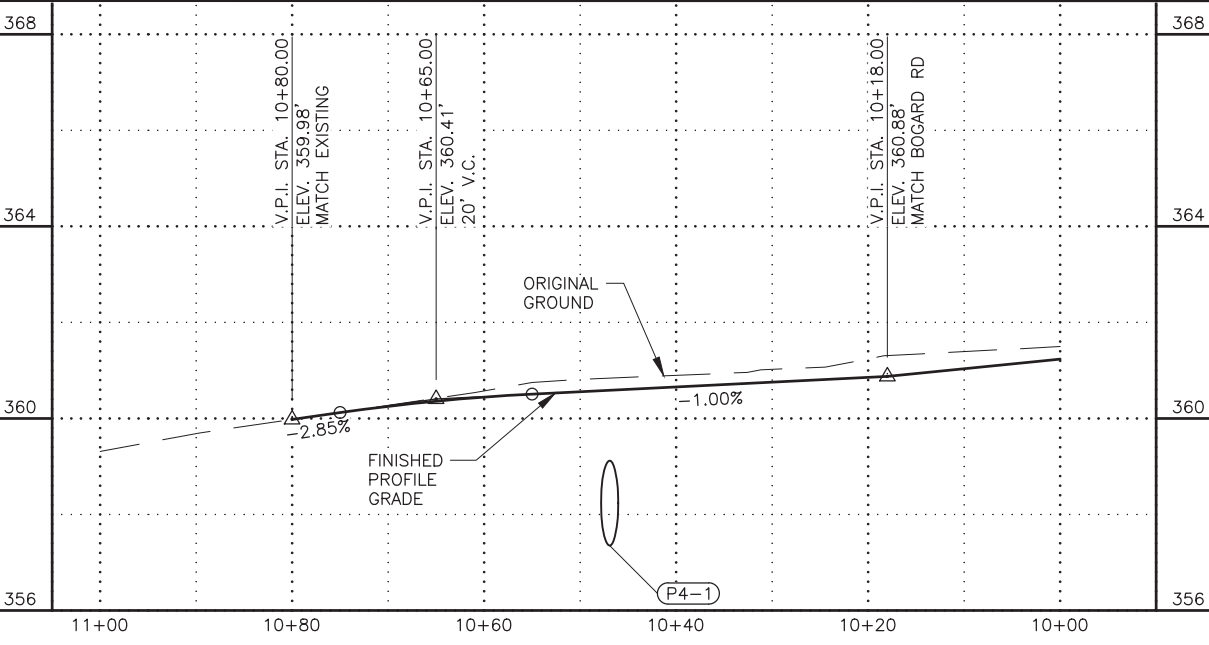
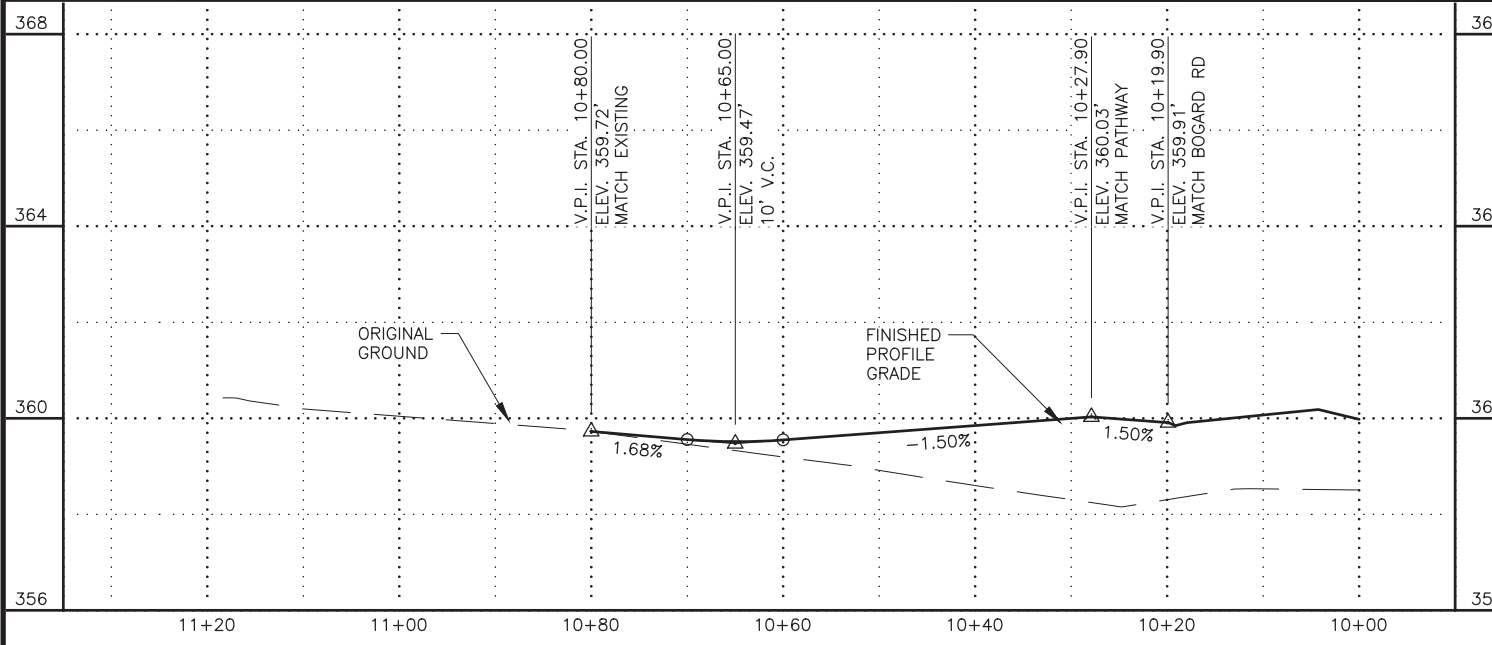
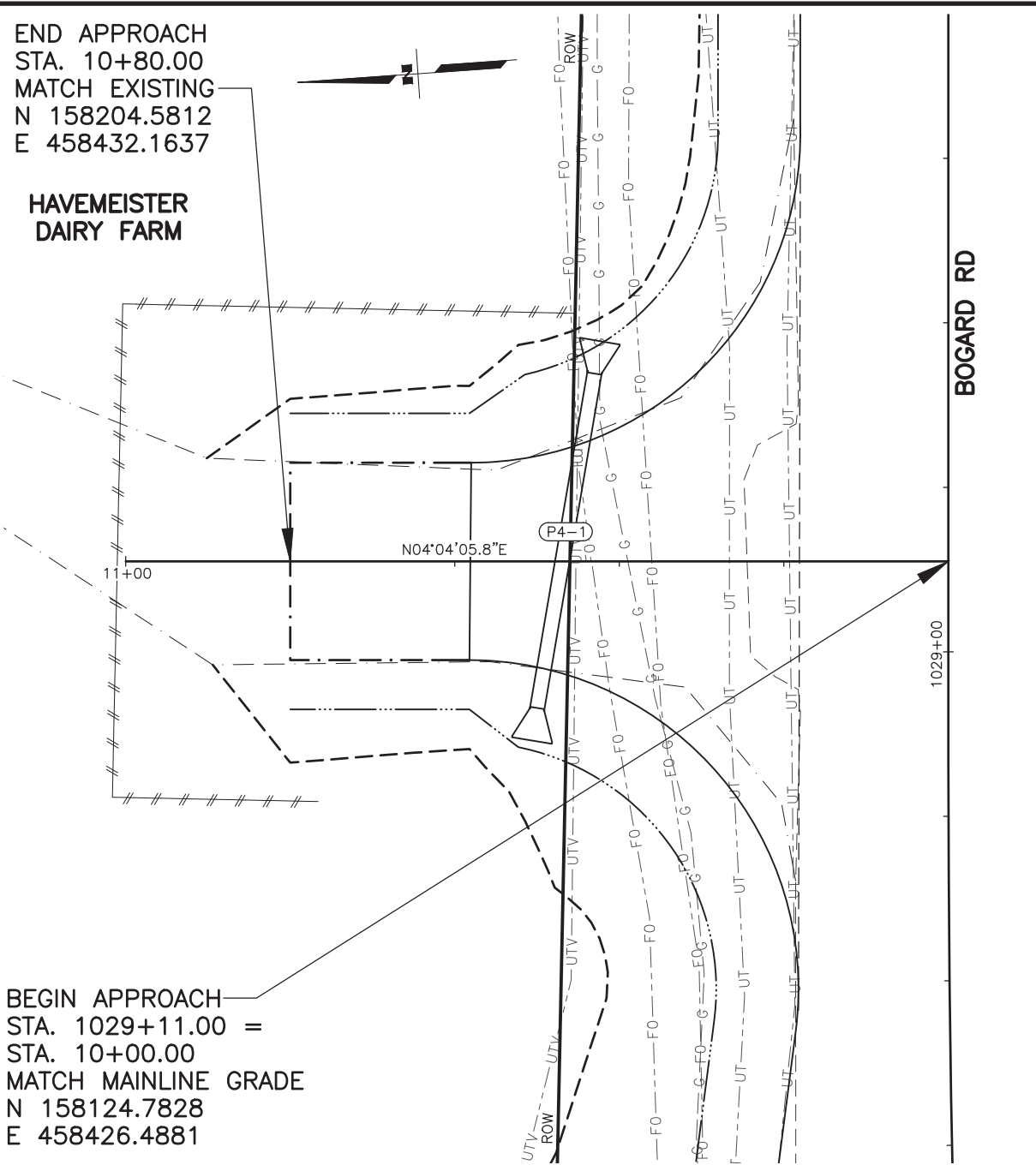
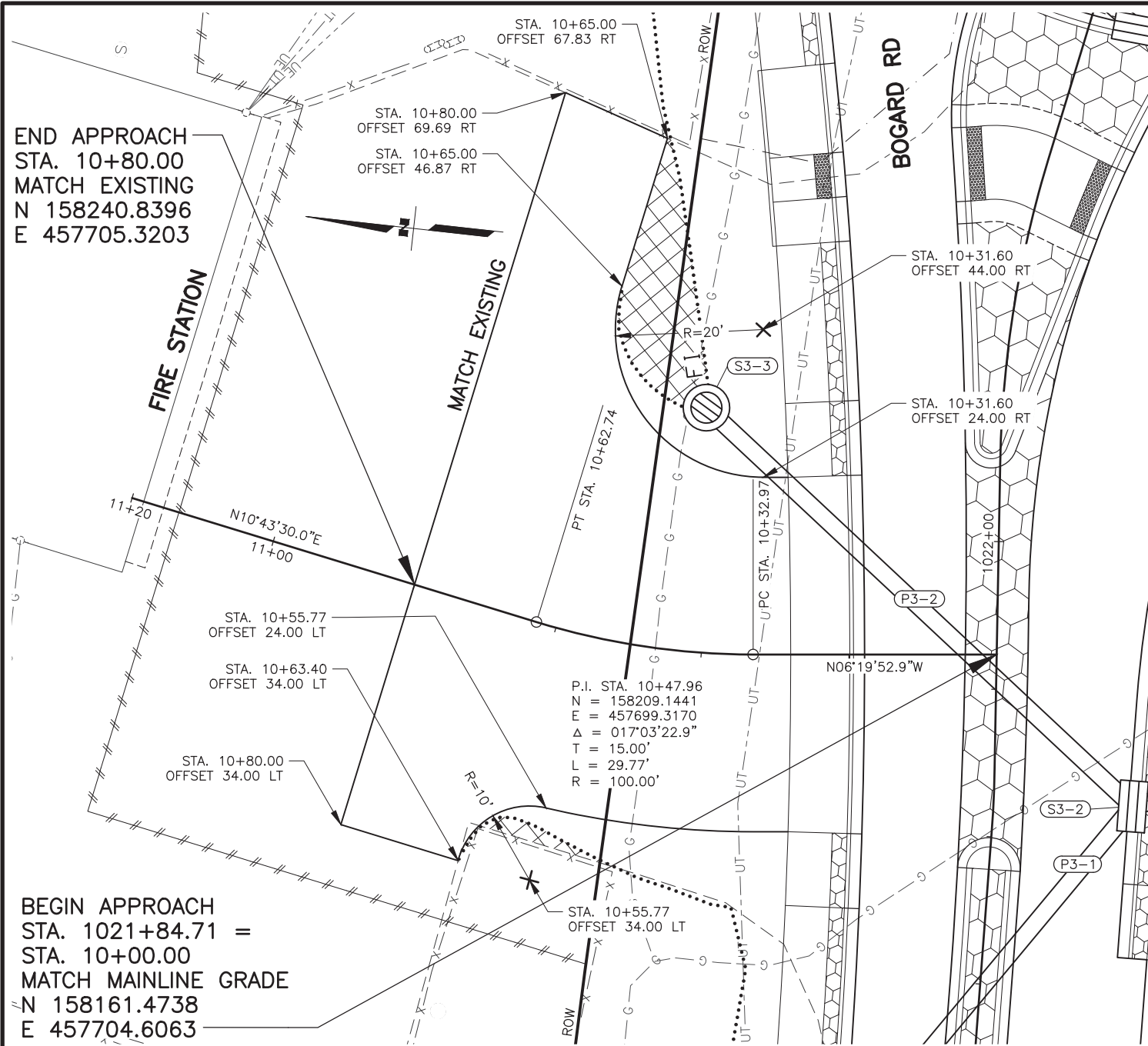
SHEET NO.	TOTAL SHEETS
F10	F14
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
0001630/ CFHWY00453	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



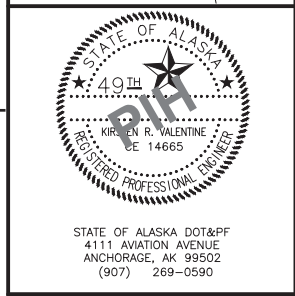
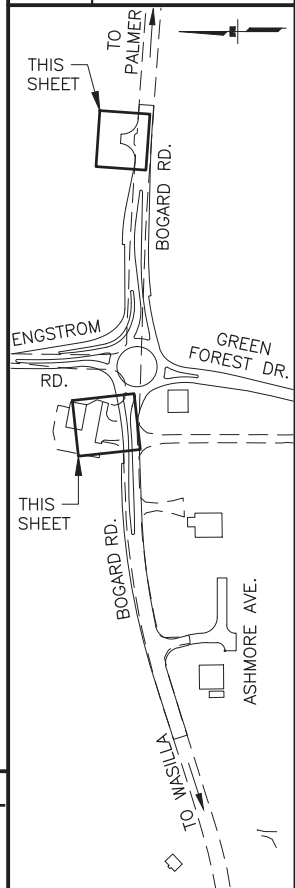
STATE OF ALASKA DOT&PF
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 ANCHORAGE, AK 99502
 (907) 269-0590

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
 PLAN AND PROFILE
 DRIVEWAY
 STA. 1016+30 RT A

ZOK
 DESIGNED BY: KRV
 CHECKED BY: KRV
 DRAFTED BY: PGH
 DATE: 6/22/2022 12:37 PM
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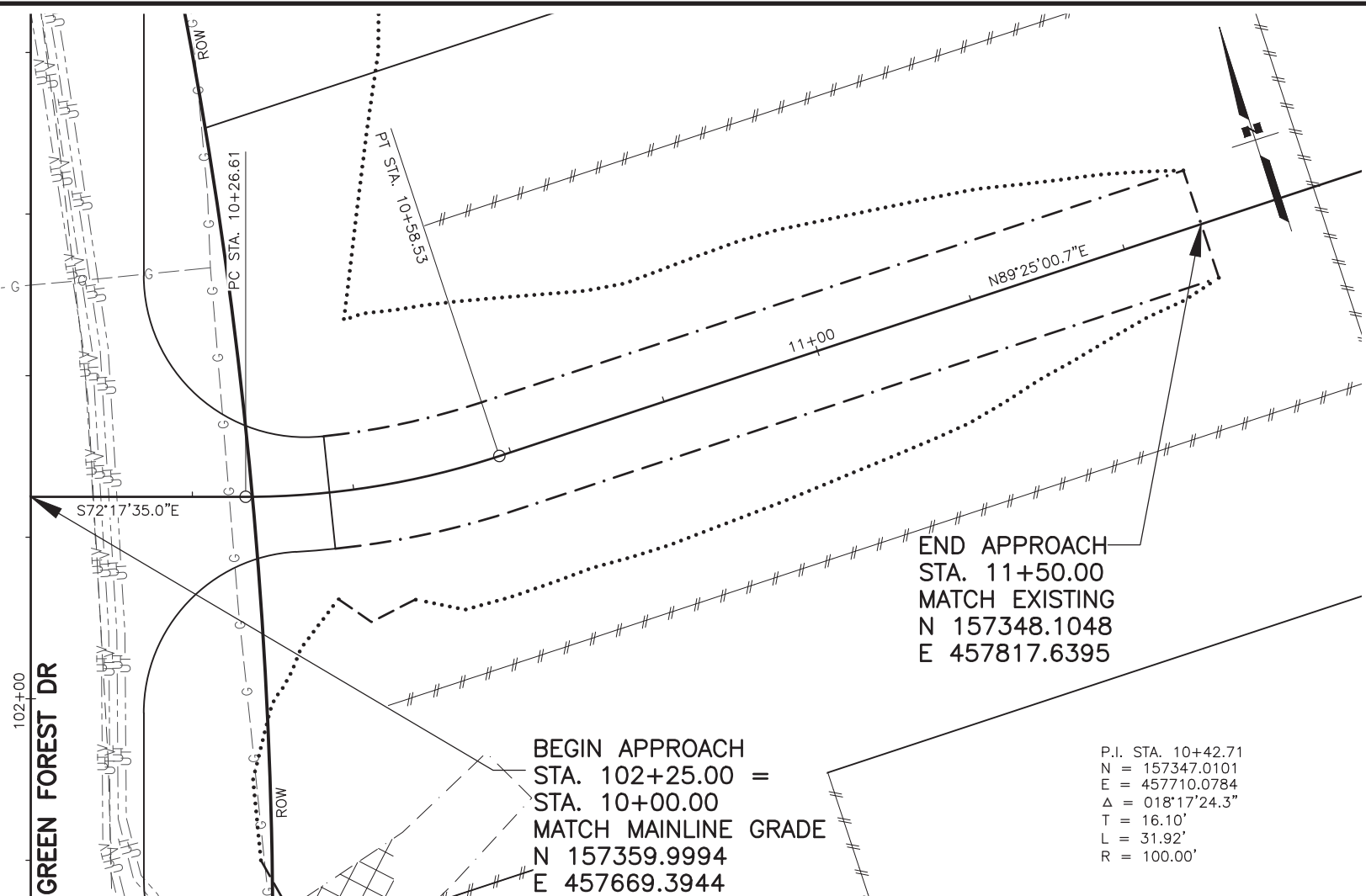
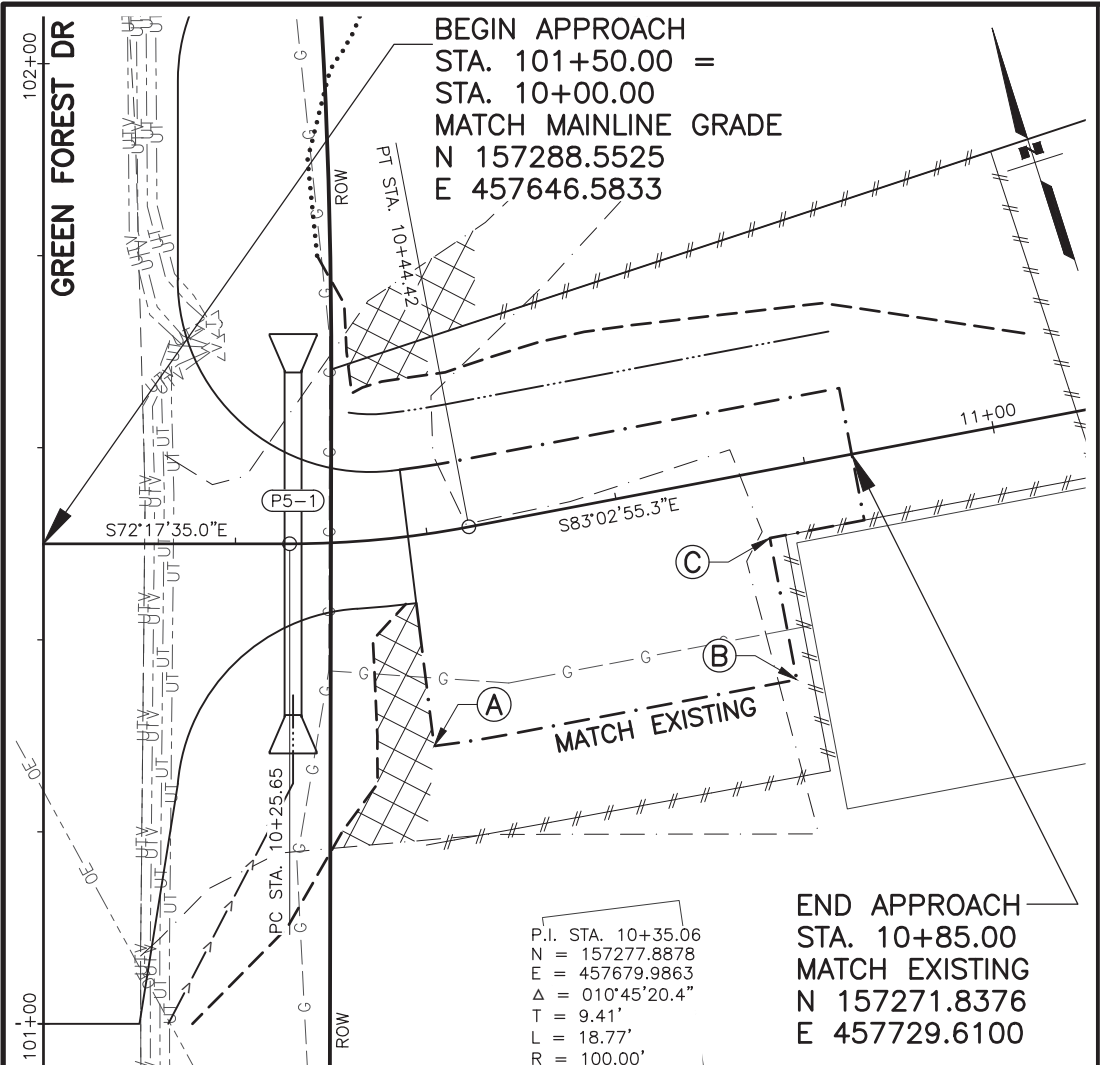


SHEET NO.	TOTAL SHEETS
F11	F14
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
0001630/ CFHWY00453	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 HSP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
 PLAN AND PROFILE
 DRIVEWAY STA 1021+84 LT
 DRIVEWAY STA 1029+11 LT

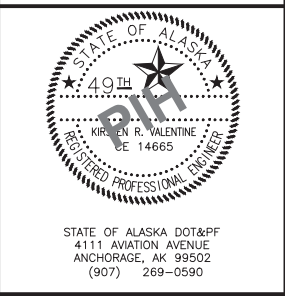
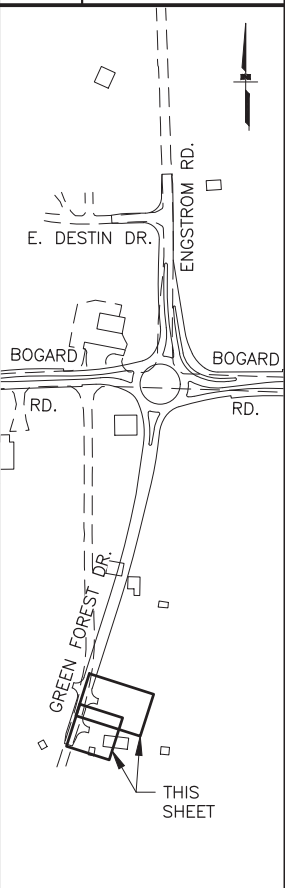
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SHEET NO.	TOTAL SHEETS
F12	F14
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001630/
 CFHWY00453**

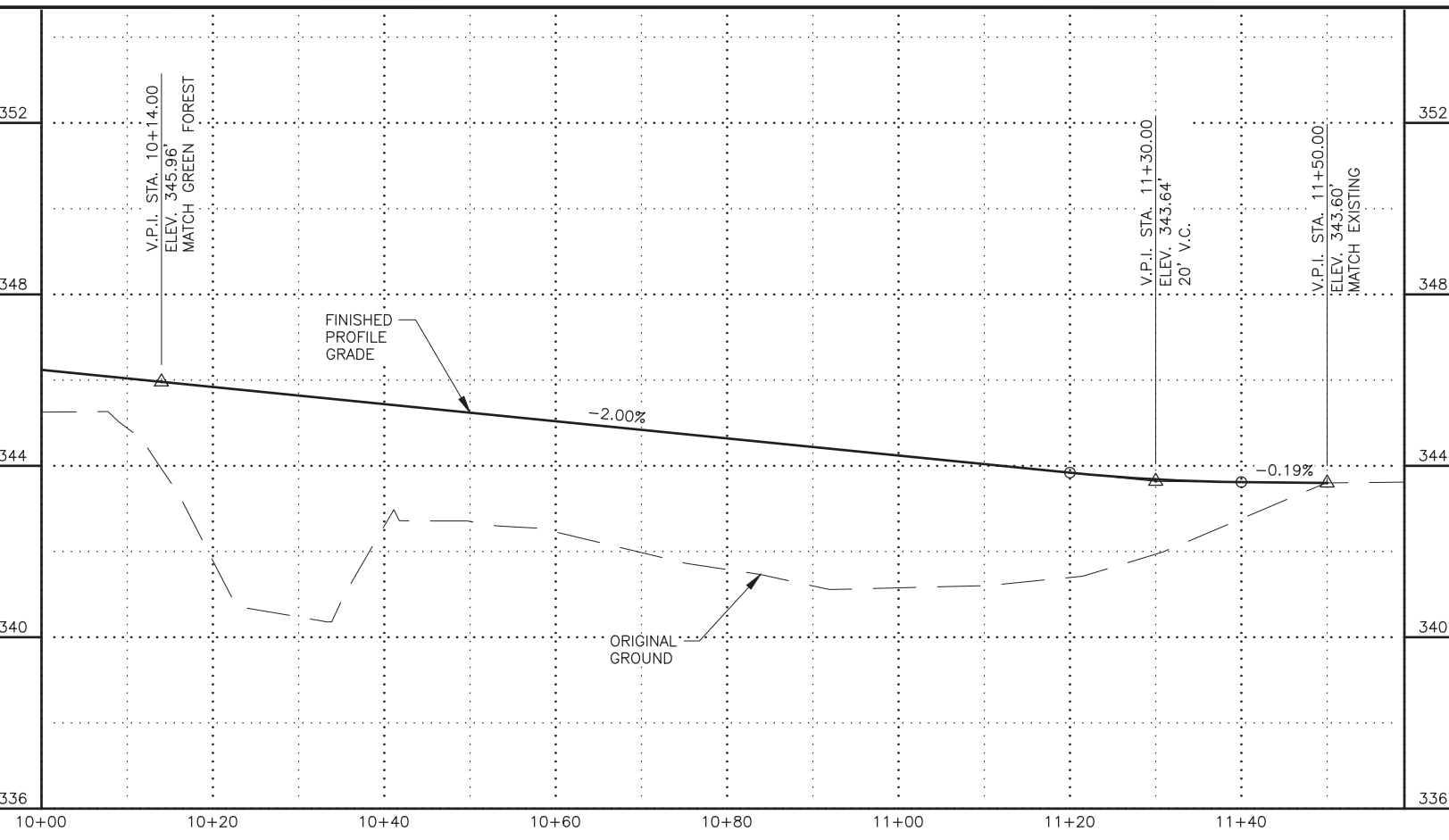
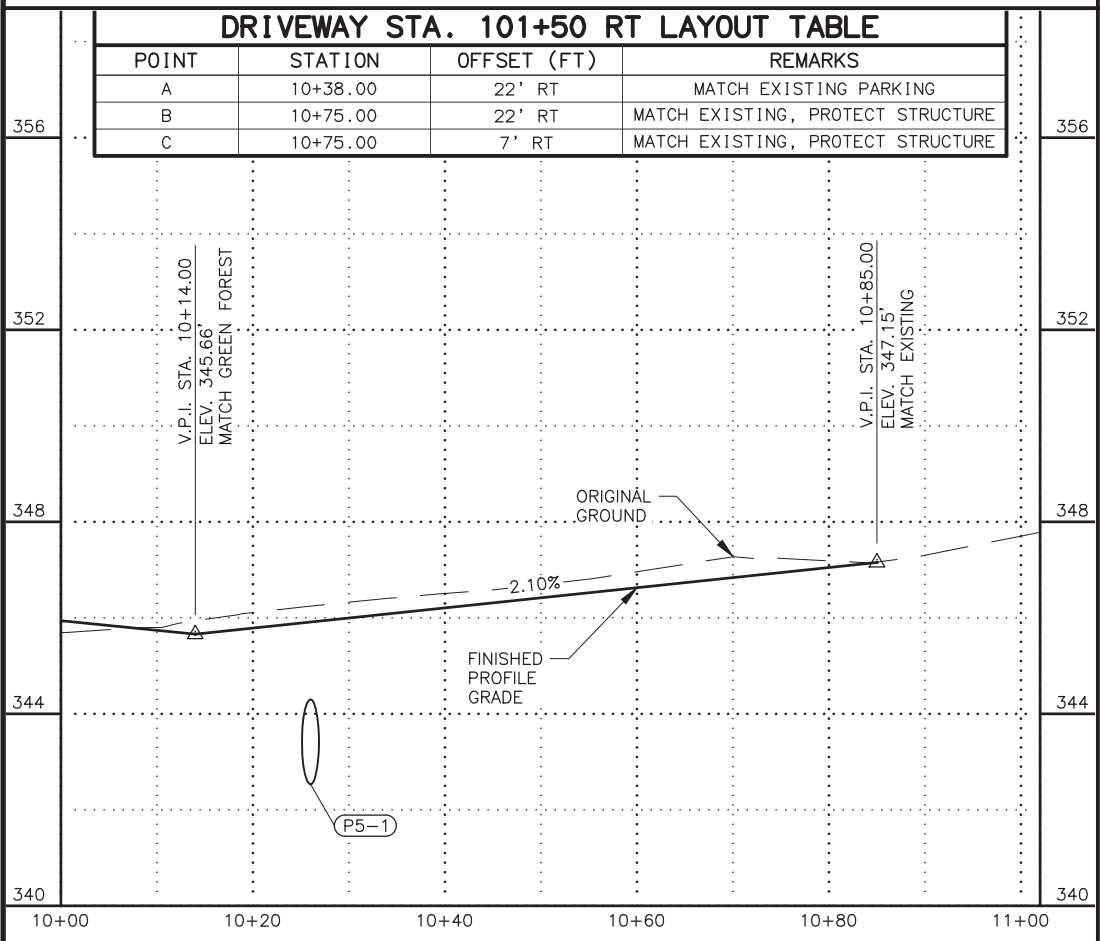
NO.	REVISION
NO.	REVISION
NO.	REVISION



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP**
 PLAN AND PROFILE
 DRIVEWAY STA 101+50 RT
 DRIVEWAY STA 102+25 RT

DRIVEWAY STA. 101+50 RT LAYOUT TABLE

POINT	STATION	OFFSET (FT)	REMARKS
A	10+38.00	22' RT	MATCH EXISTING PARKING
B	10+75.00	22' RT	MATCH EXISTING, PROTECT STRUCTURE
C	10+75.00	7' RT	MATCH EXISTING, PROTECT STRUCTURE



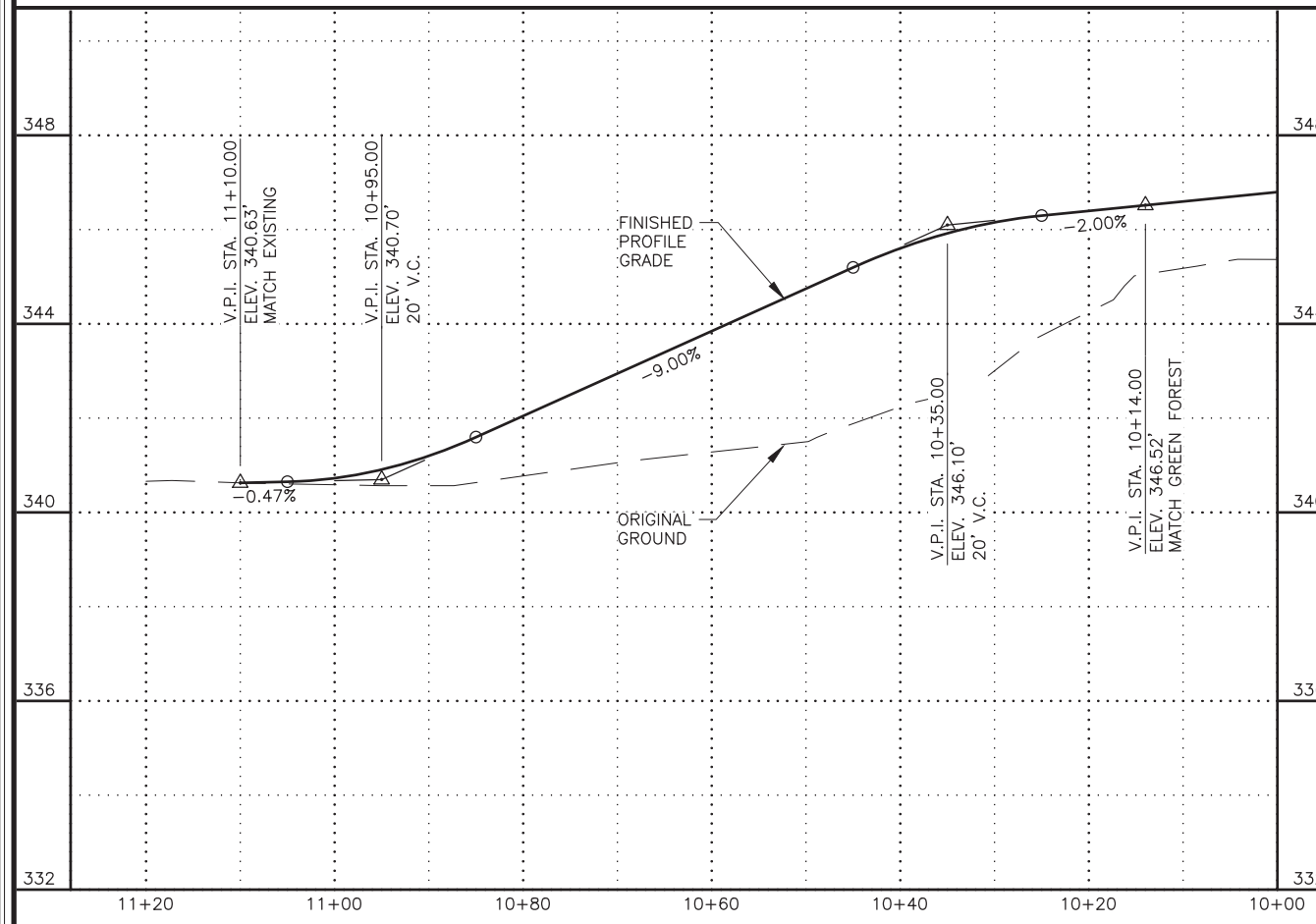
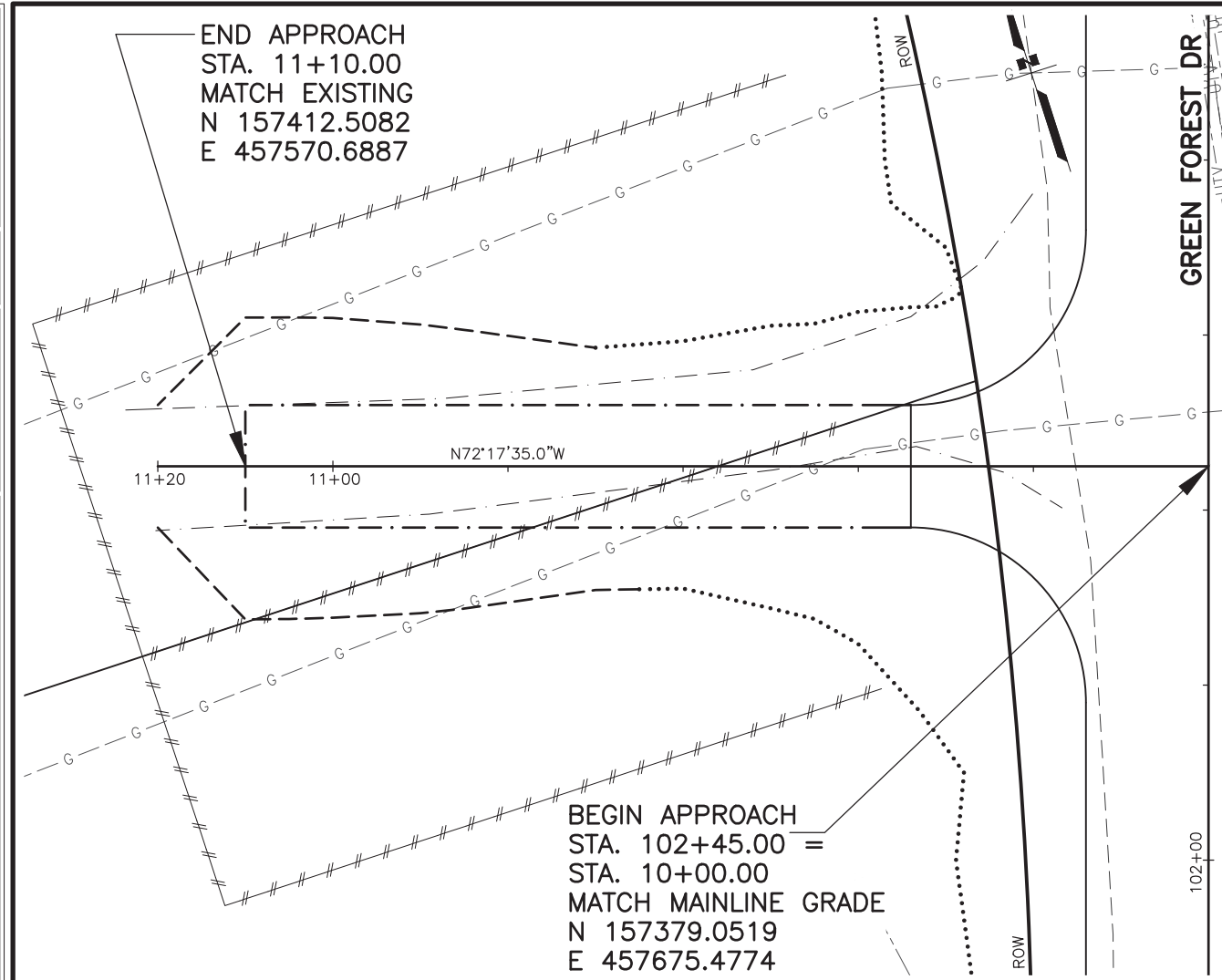
ZDK
KRV
PGH

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
1" = 20'

DATE
6/22/2022 12:38 PM

TIME
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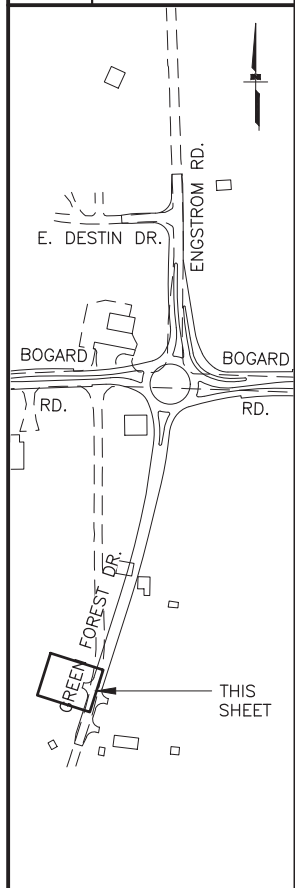


SHEET NO.	TOTAL SHEETS
F13	F14
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION

**0001630/
CFHWY00453**

NO.	REVISION



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**HSP: BOGARD RD AT
ENGSTROM RD & GREEN
FOREST DR INT IMP**

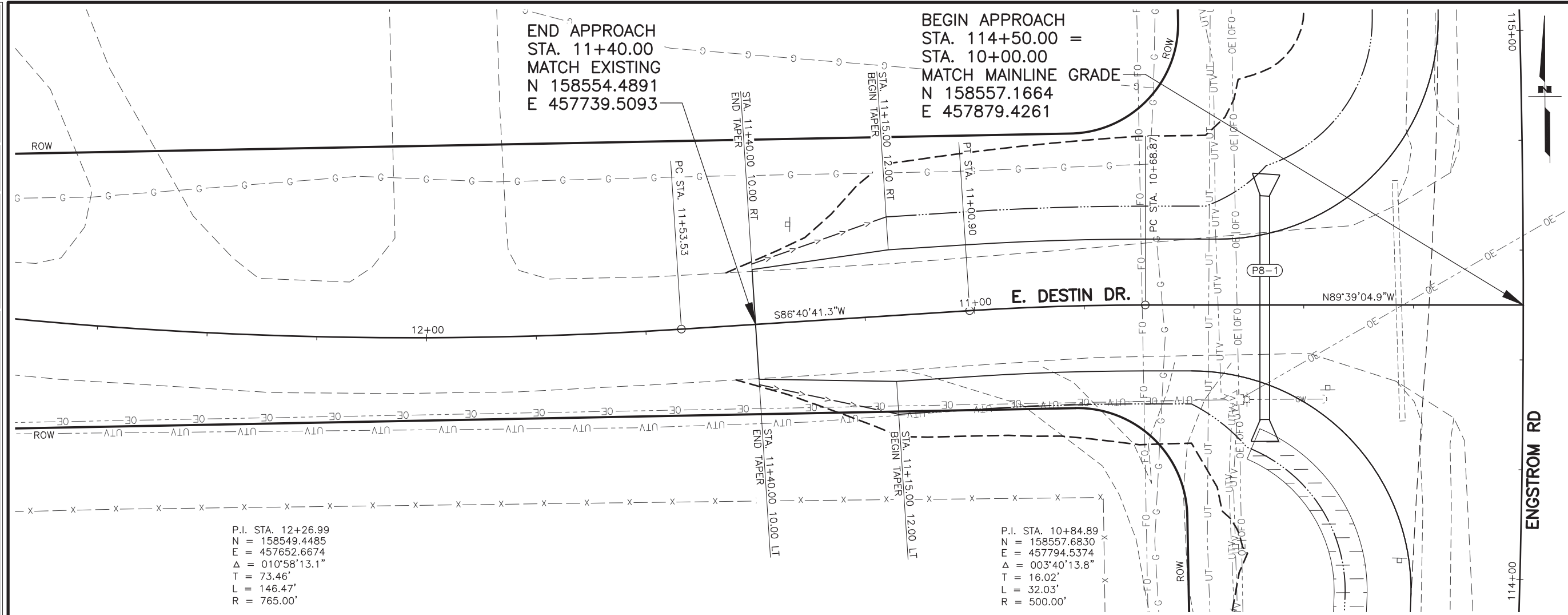
**PLAN AND PROFILE
DRIVEWAY STA 102+45 LT**

DRAWING LOCATION
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DESIGNED BY: ZDK
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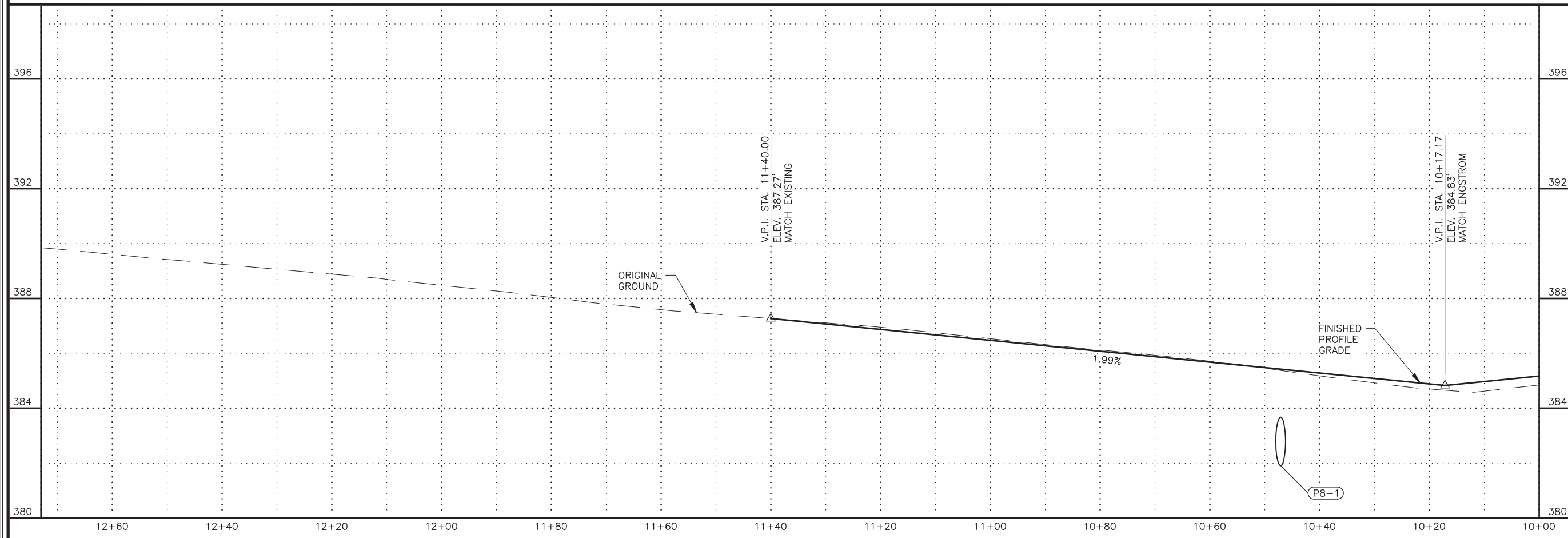
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DRAWING LOCATION: W:\PROJECTS\HSP\BOGARD_ENGSTROM_RA - CFHWY00453\PLANSET\00453_F_PNP_APPROACH.DWG



P.I. STA. 12+26.99
 N = 158549.4485
 E = 457652.6674
 $\Delta = 010^{\circ}58'13.1''$
 T = 73.46'
 L = 146.47'
 R = 765.00'

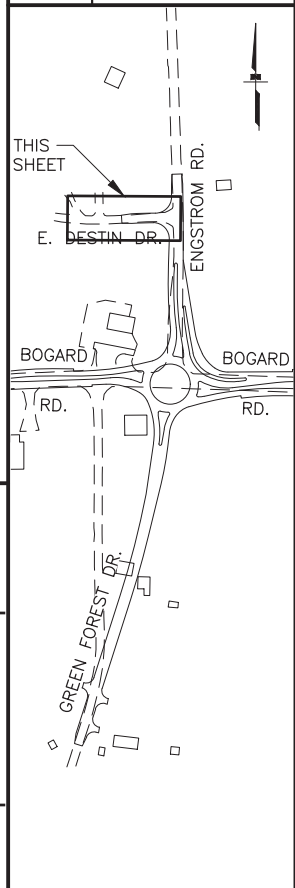
P.I. STA. 10+84.89
 N = 158557.6830
 E = 457794.5374
 $\Delta = 003^{\circ}40'13.8''$
 T = 16.02'
 L = 32.03'
 R = 500.00'



SHEET NO.	TOTAL SHEETS
F14	F14
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001630/
 CFHWY00453**

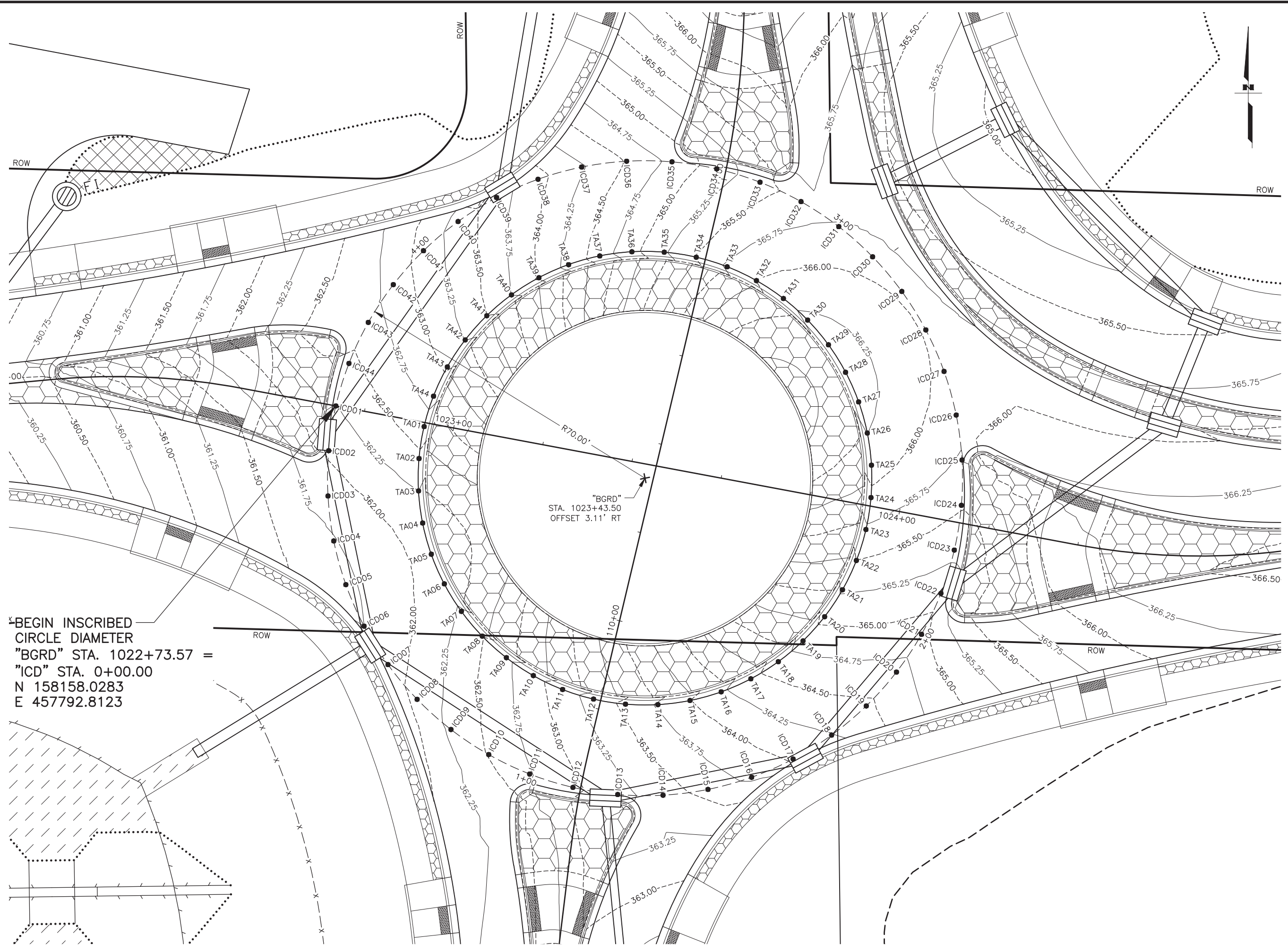
NO.	REVISION



STATE OF ALASKA DOT&PF
 411 AVIATION AVENUE
 ANCHORAGE, AK 99502
 (907) 269-0590

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**HSP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP**
 PLAN AND PROFILE
 DRIVEWAY STA 115+15 LT

ZDK DESIGNED BY: KRV CHECKED BY: ZDK DRAFTED BY: ZDK
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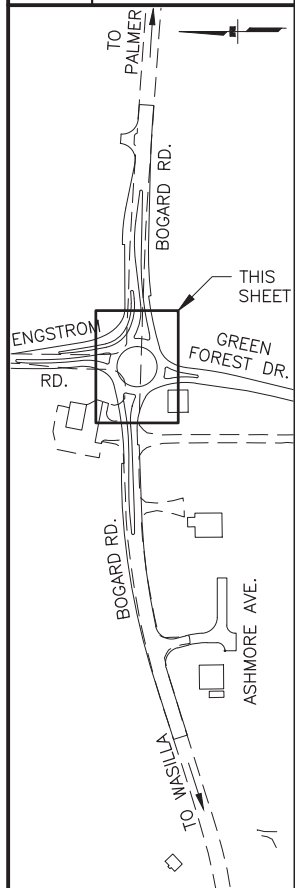


BEGIN INSCRIBED
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 "BGRD" STA. 1022+73.57 =
 "ICD" STA. 0+00.00
 N 158158.0283
 E 457792.8123

SHEET NO.	TOTAL SHEETS
G01	G12
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001630/
 CFHWY00453**

NO.	REVISION



STATE OF ALASKA DOT&PF
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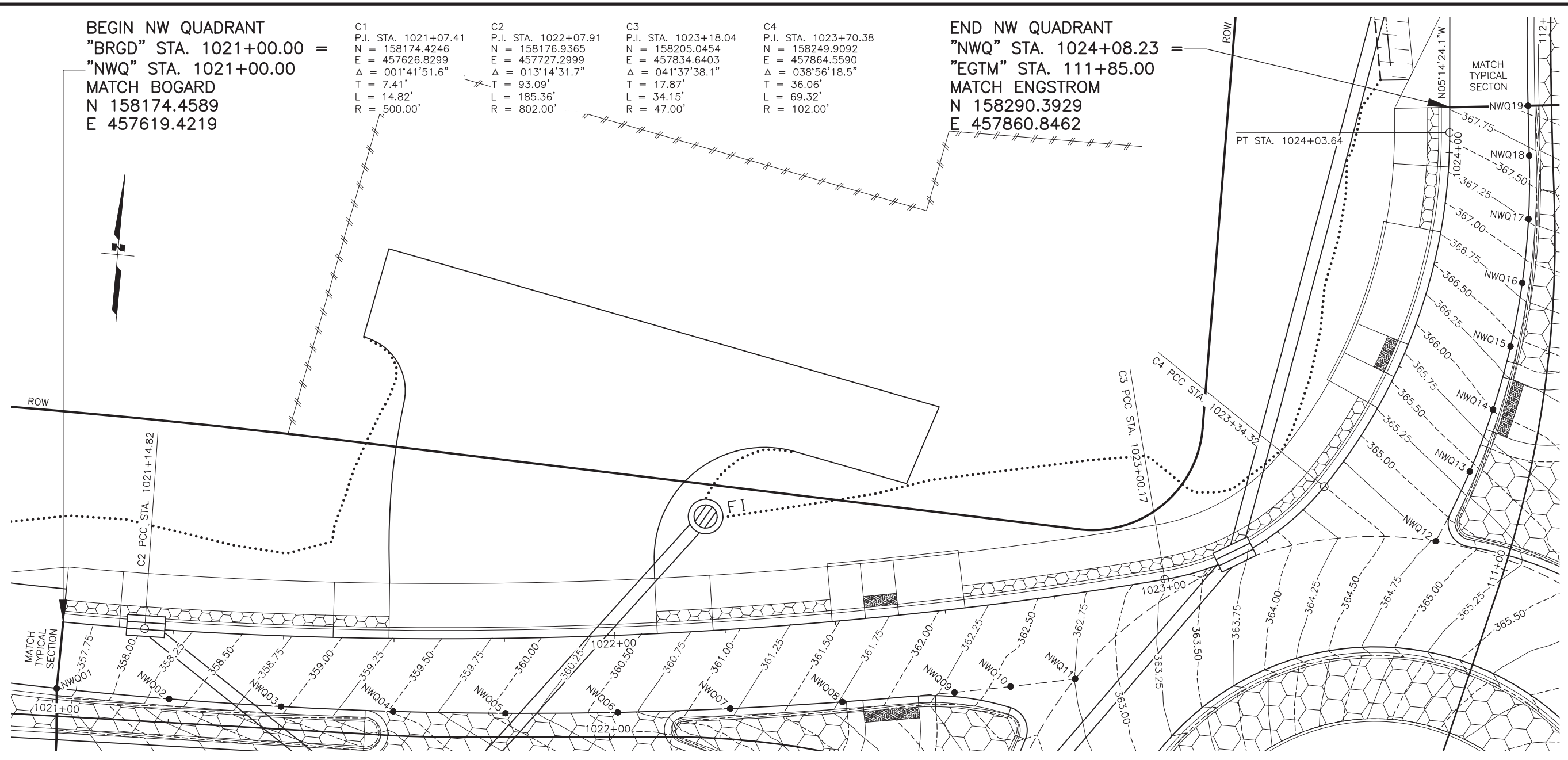
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP**
 ROUNDABOUT
 ICD & TRUCK APRON
 GRADING PLAN

DRAWING LOCATION: W:\PROJECTS\HSP\BOGARD_ENGSTROM_RA - CFHWY00453\PLANSET\00453_603_QUADRANTS.DWG
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 DESIGNED BY: ZDK
 CHECKED BY: KRV
 DRAFTED BY: ZDK

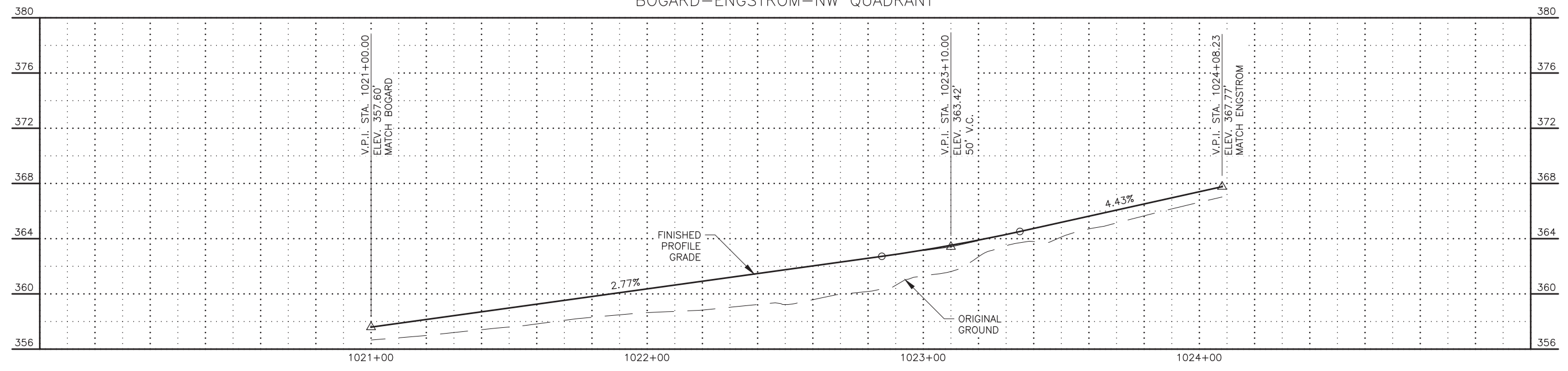
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 "BRGD" STA. 1021+00.00 =
 "NWQ" STA. 1021+00.00
 MATCH BOGARD
 N 158174.4589
 E 457619.4219

C1	C2	C3	C4
P.I. STA. 1021+07.41	P.I. STA. 1022+07.91	P.I. STA. 1023+18.04	P.I. STA. 1023+70.38
N = 158174.4246	N = 158176.9365	N = 158205.0454	N = 158249.9092
E = 457626.8299	E = 457727.2999	E = 457834.6403	E = 457864.5590
Δ = 001'41"51.6"	Δ = 013'14"31.7"	Δ = 041'37"38.1"	Δ = 038'56"18.5"
T = 7.41'	T = 93.09'	T = 17.87'	T = 36.06'
L = 14.82'	L = 185.36'	L = 34.15'	L = 69.32'
R = 500.00'	R = 802.00'	R = 47.00'	R = 102.00'

END NW QUADRANT
 "NWQ" STA. 1024+08.23 =
 "EGTM" STA. 111+85.00
 MATCH ENGSTROM
 N 158290.3929
 E 457860.8462



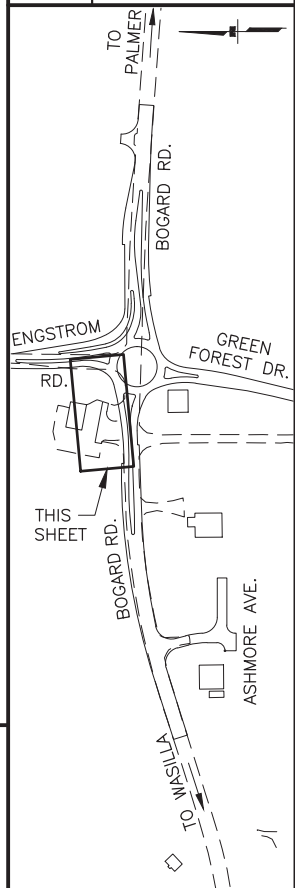
BOGARD-ENGSTROM-NW QUADRANT



SHEET NO.	TOTAL SHEETS
G03	G12
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001630/
 CFHWY00453**

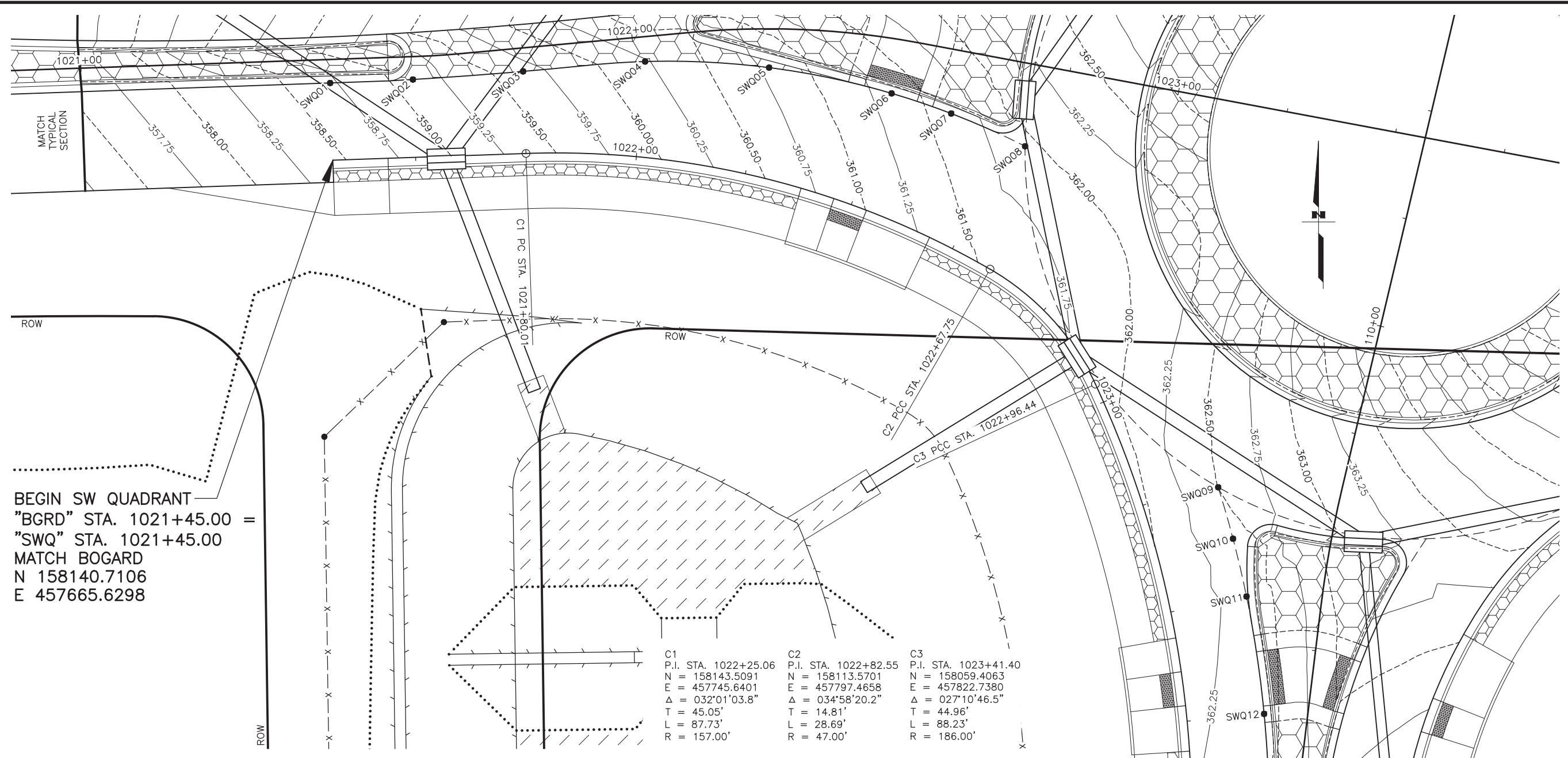
NO.	REVISION



STATE OF ALASKA DOT&PF
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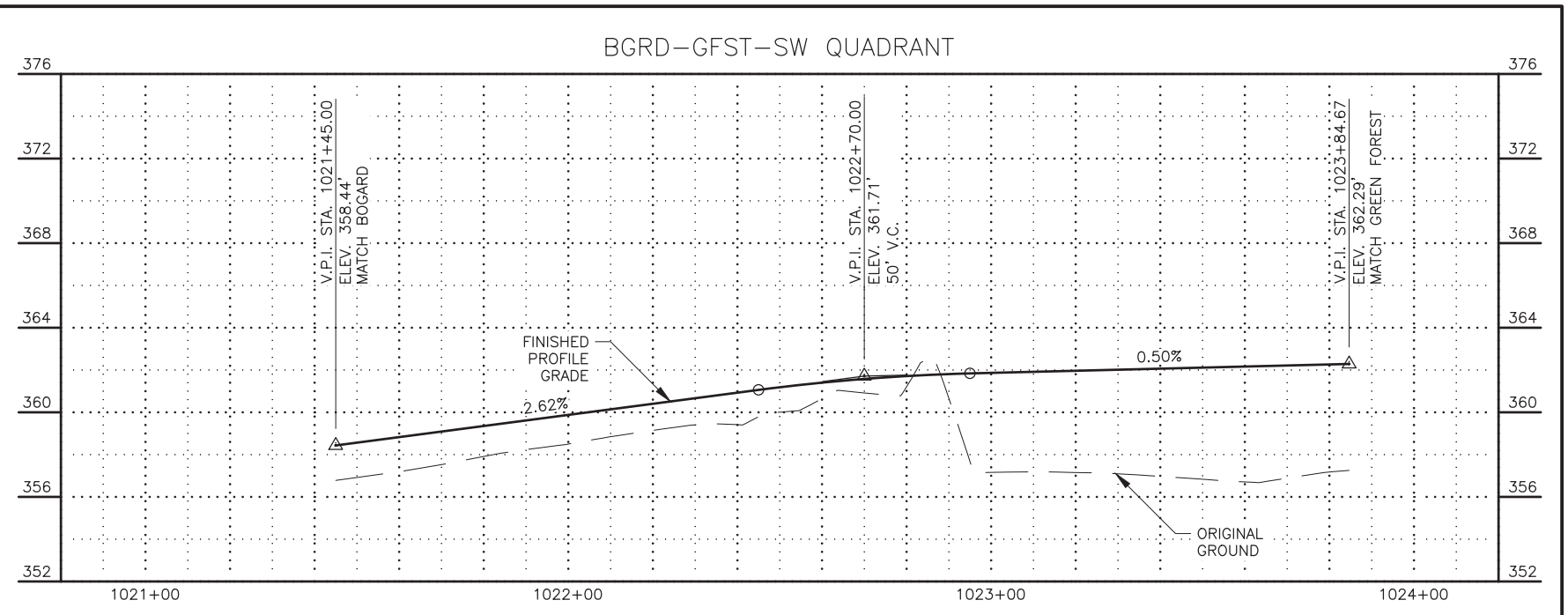
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**HSP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP**
 NORTHWEST QUADRANT
 GRADING PLAN

ZDK DESIGNED BY: KRV CHECKED BY: ZDK DRAFTED BY: ZDK
 SCALE: 1"=10'/20'
 DATE: 6/22/2022 TIME: 12:38 PM
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BEGIN SW QUADRANT
 "BGRD" STA. 1021+45.00 =
 "SWQ" STA. 1021+45.00
 MATCH BOGARD
 N 158140.7106
 E 457665.6298

Curve	P.I. STA.	N	E	Δ	T	L	R
C1	1022+25.06	158143.5091	457745.6401	032°01'03.8"	45.05'	87.73'	157.00'
C2	1022+82.55	158113.5701	457797.4658	034°58'20.2"	14.81'	28.69'	47.00'
C3	1023+41.40	158059.4063	457822.7380	027°10'46.5"	44.96'	88.23'	186.00'

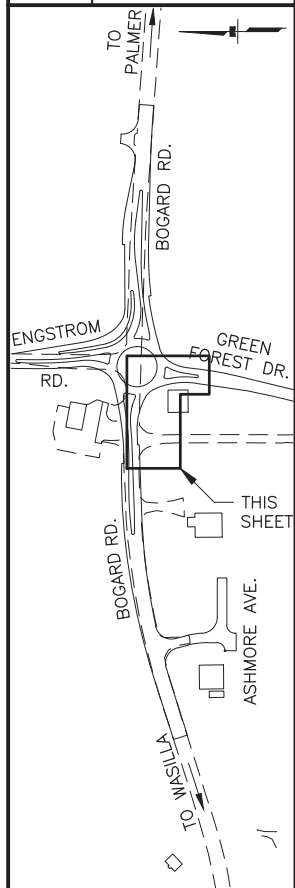


END SW QUADRANT
 "SWQ" STA. 1023+84.67 =
 "GFST" STA. 109+00.00
 MATCH GREEN FOREST
 N 158014.4754
 E 457821.0384

SHEET NO.	TOTAL SHEETS
G04	G12
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001630/
 CFHWY00453**

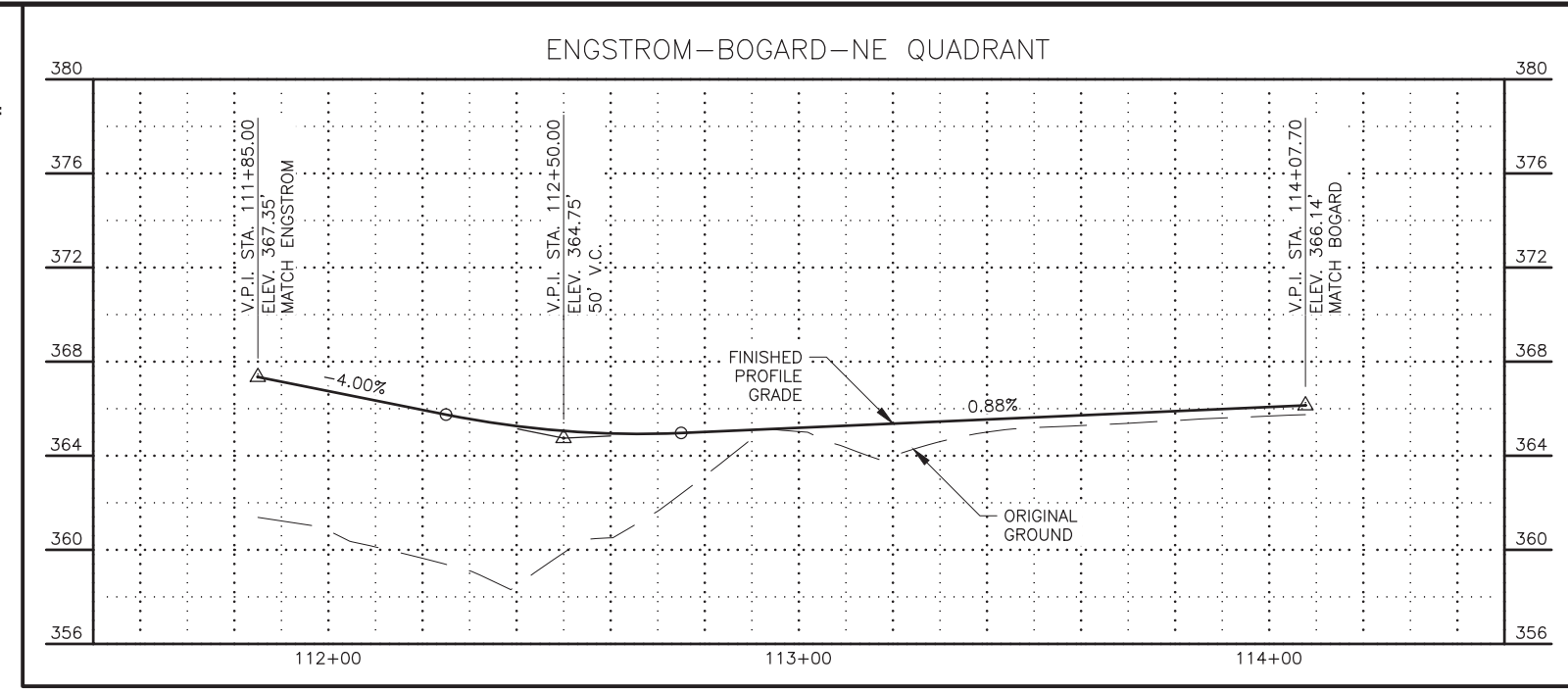
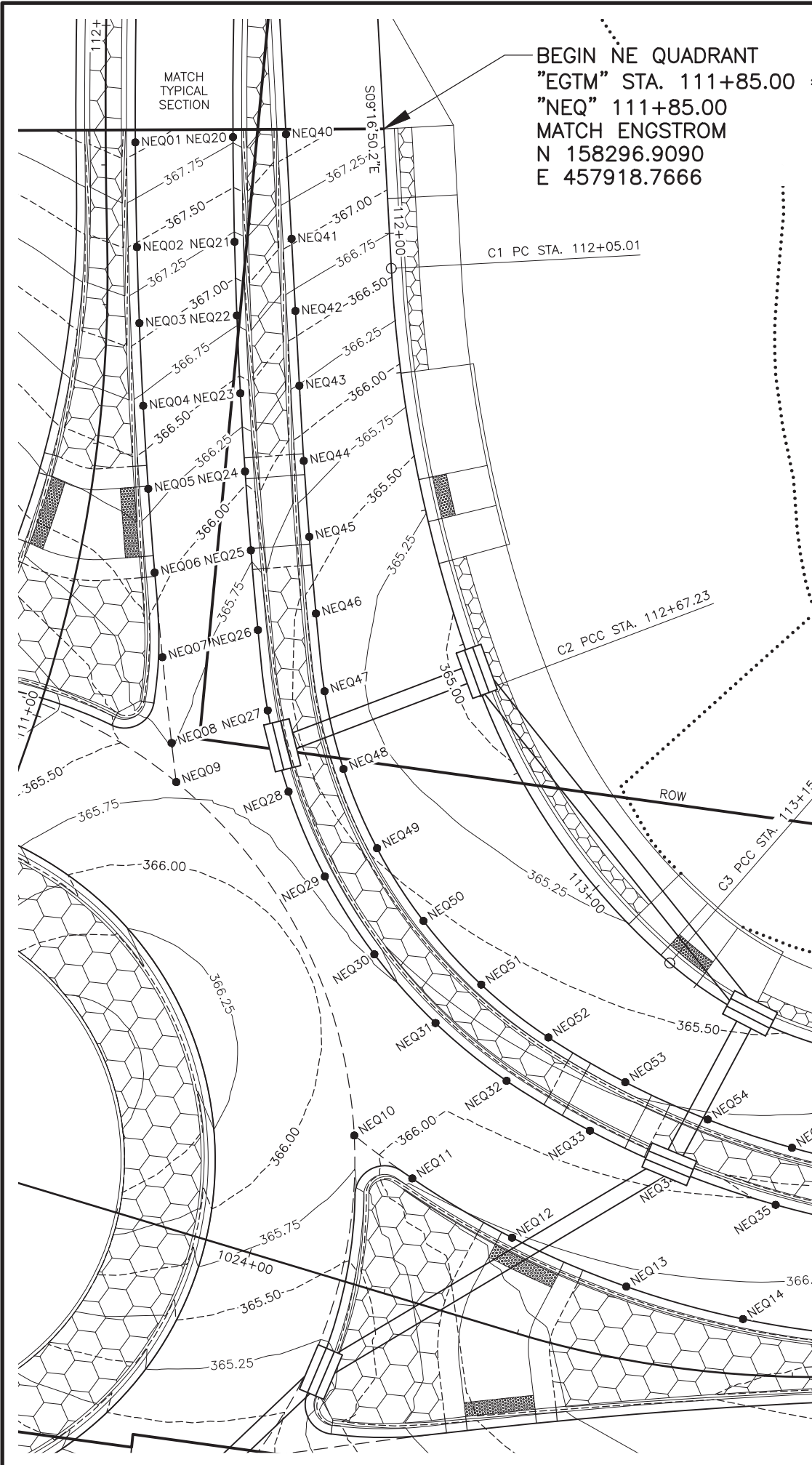
NO.	REVISION



STATE OF ALASKA DOT&PF
 411 AVIATION AVENUE
 ANCHORAGE, AK 99502
 (907) 269-0590

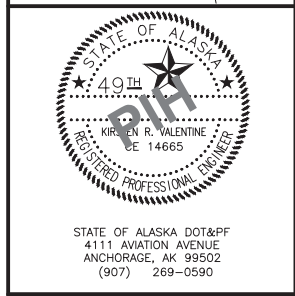
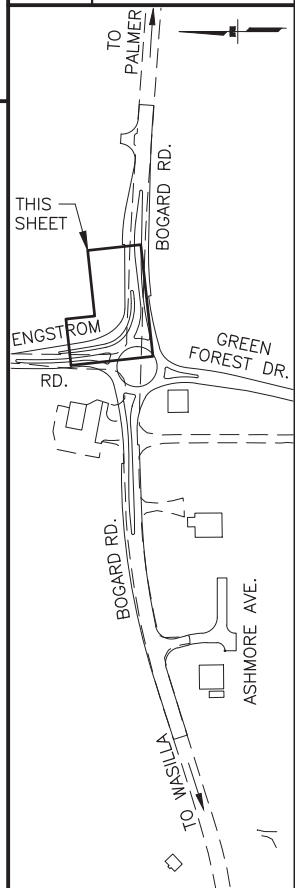
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
 SOUTHWEST QUADRANT
 GRADING PLAN

ZDK DESIGNED BY: KRV CHECKED BY: ZDK DRAFTED BY: ZDK
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 DATE: 6/22/2022 12:39 PM
 TIME: 12:39 PM
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Curve	P.I. STA.	N	E	Δ	T	L	R
C1	112+36.37	158246.2138	457927.0506	017°38'45.7"	31.35'	62.21'	202.00'
C2	112+91.66	158196.4691	457952.3166	028°16'57.6"	24.44'	47.88'	97.00'
C3	113+33.14	158172.2368	457987.1944	035°06'24.1"	18.03'	34.93'	57.00'

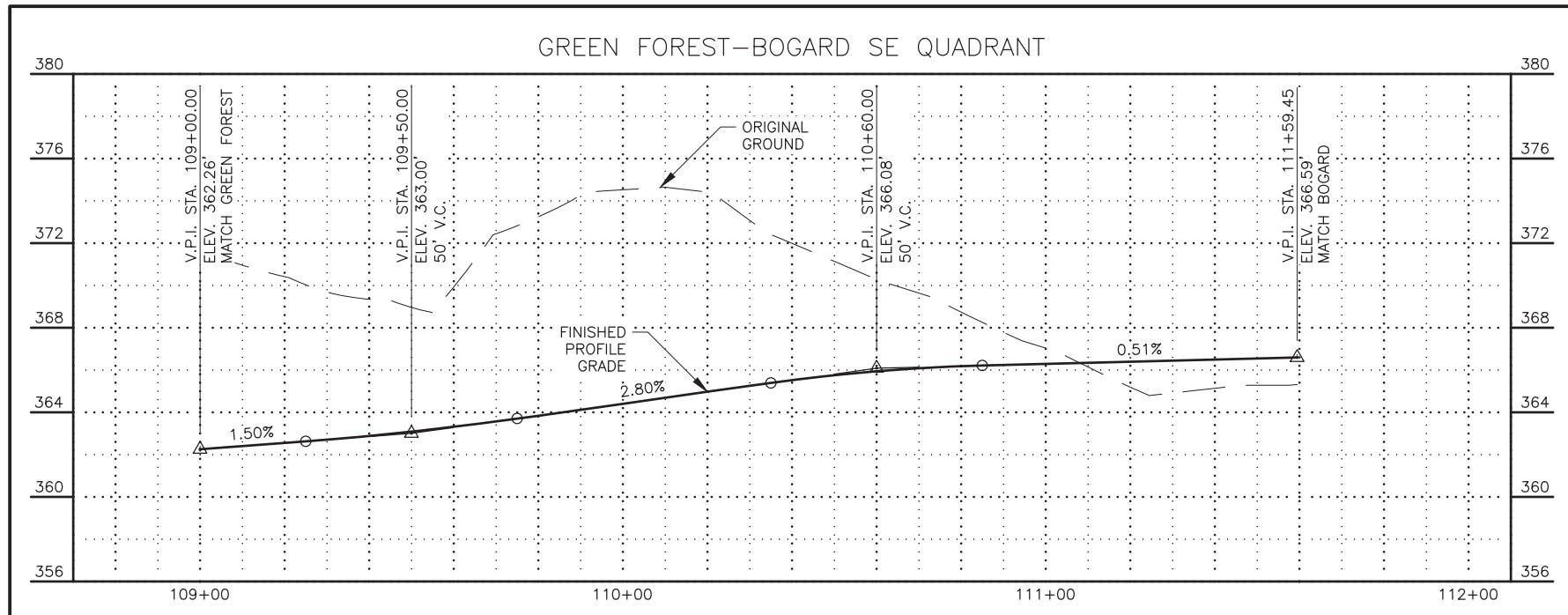
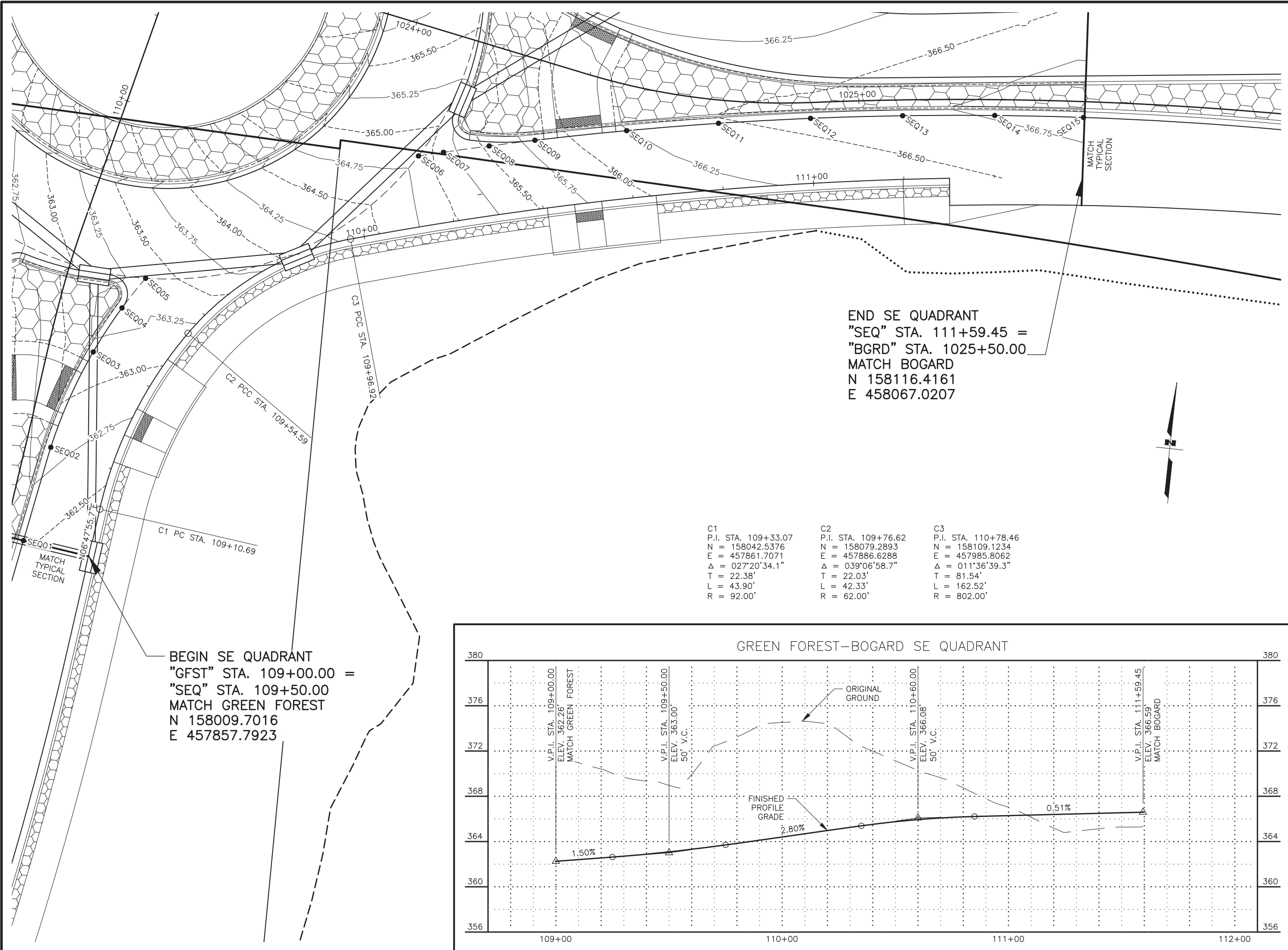
SHEET NO.	TOTAL SHEETS
G05	G12
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
0001630/ CFHWY00453	
NO.	REVISION
NO.	REVISION
NO.	REVISION



STATE OF ALASKA DOT&PF
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP**
 SOUTHEAST QUADRANT
 GRADING PLAN

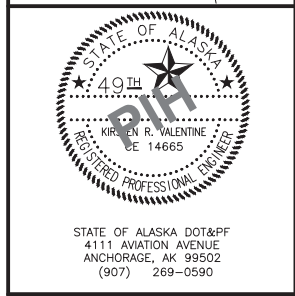
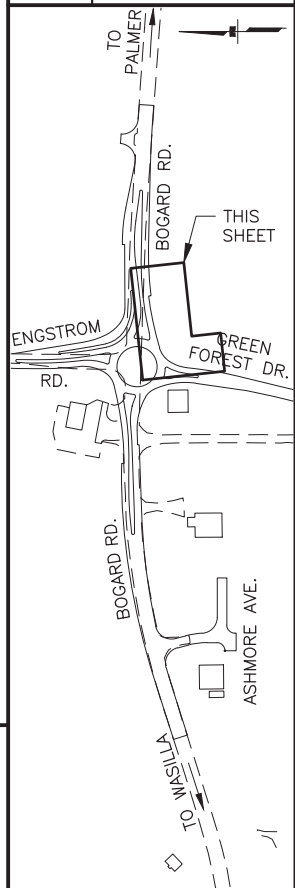
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SHEET NO.	TOTAL SHEETS
G06	G12
STATE	YEAR
ALASKA	2024

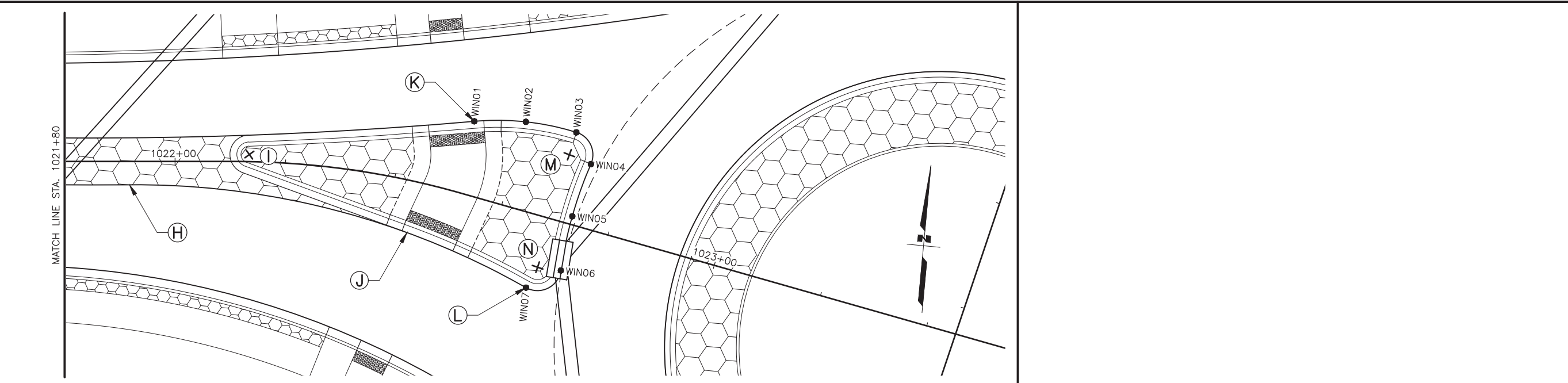
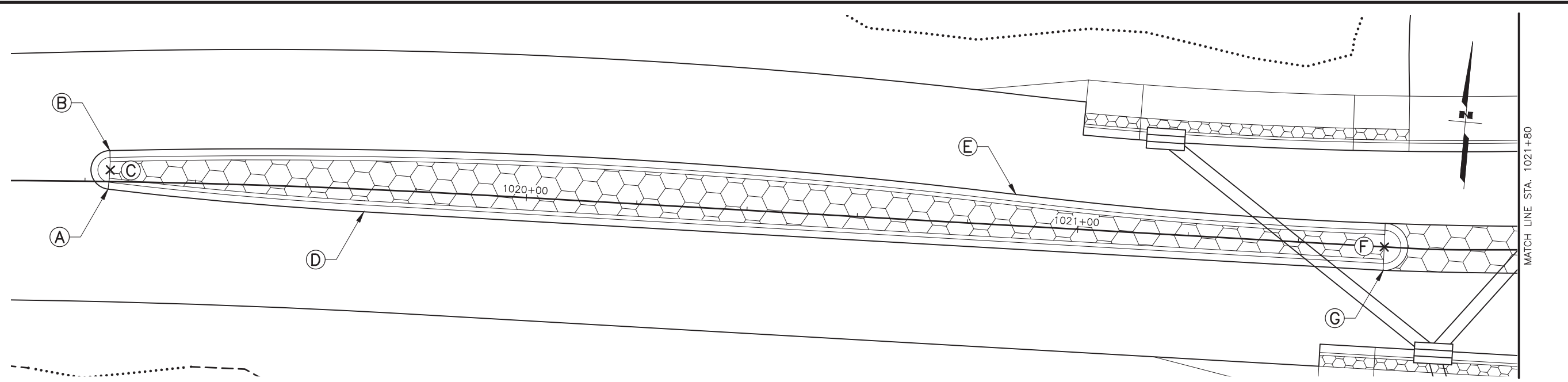
PROJECT DESIGNATION
**0001630/
 CFHWY00453**

NO.	REVISION

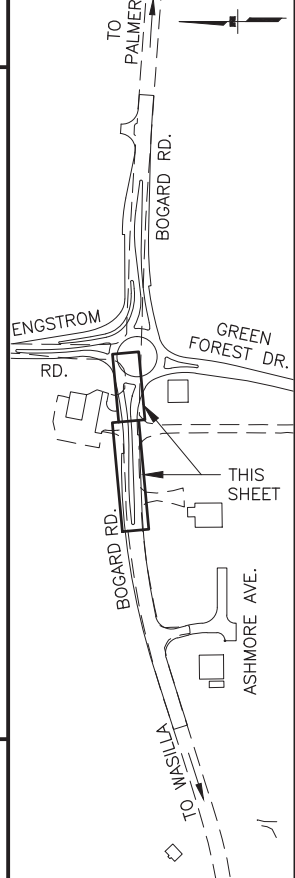


HSP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
 SOUTHEAST QUADRANT
 GRADING PLAN

DRAWING LOCATION: W:\PROJECTS\HSIP\BOGARD_ENGSTROM_RA - CFHWY00453\CIV3D\PLANSET\00453_608_SPLITTER_ISLANDS.DWG
 DATE: 6/22/2022 12:39 PM
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 DESIGNED BY: ZDK
 CHECKED BY: KRV
 DRAFTED BY: ZDK



SHEET NO.	TOTAL SHEETS
G08	G12
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
0001630/ CFHWY00453	
NO.	REVISION
NO.	REVISION
NO.	REVISION
NO.	REVISION



WEST ISLAND LAYOUT TABLE				
POINT	ALIGNMENT	STATION	OFFSET (FT)	REMARKS
A	"BGRD"	1019+24.19	1.38' RT	BEGIN 752' RADIUS
B	"BGRD"	1019+24.42	5.60' LT	BEGIN 1,139' RADIUS
C	"BGRD"	1019+24.56	2.10' LT	BULL NOSE RADIUS = 3.5'
D	"BGRD"	1019+70.69	4.10' RT	END 752' RADIUS
E	"BGRD"	1020+88.45	5.66' LT	END 1,139' RADIUS / BEGIN 798' RADIUS
F	"BGRD"	1021+55.61	CL	BULL NOSE RADIUS = 4.25'
G	"BGRD"	1021+55.66	4.25' RT	BEGIN 806.5' RADIUS
H	"BGRD"	1021+91.75	4.22' RT	END 806.5' RADIUS / BEGIN 143' RADIUS
I	"BGRD"	1022+13.43	1.29' LT	BULL NOSE RADIUS = 3.5'
J	"BGRD"	1022+44.37	9.35' RT	END FLUSH MEDIAN
K	"BGRD"	1022+51.17	13.18' LT	END 798' RADIUS
L	"BGRD"	1022+68.32	13.22' RT	END 143' RADIUS
M	"BGRD"	1022+69.28	12.07' LT	BULL NOSE RADIUS = 4.25'
N	"BGRD"	1022+69.32	9.09' RT	BULL NOSE RADIUS = 4.25'

WEST ISLAND NOSE GRADING POINTS					
POINT	ALIGNMENT	STATION	OFFSET (FT)	ELEVATION (FT)	REMARKS
WIN01	"BGRD"	1022+51.17	13.18' LT	362.10'	BEGIN 48' RADIUS
WIN02	"BGRD"	1022+60.08	15.64' LT	362.39'	
WIN03	"BGRD"	1022+69.39	16.32' LT	362.68'	END 48' RADIUS
WIN04	"BGRD"	1022+73.50	11.51' LT	362.50'	BEGIN 75' RADIUS
WIN05	"BGRD"	1022+72.84	1.50' LT	362.28'	
WIN06	"BGRD"	1022+73.54	8.51' RT	362.07'	END 75' RADIUS
WIN07	"BGRD"	1022+68.32	13.22' RT	361.79'	



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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
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 HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP
 WEST SPLITTER ISLAND
 LAYOUT & GRADING

DESIGNED BY: ZDK
 CHECKED BY: KRV
 DRAFTED BY: ZDK

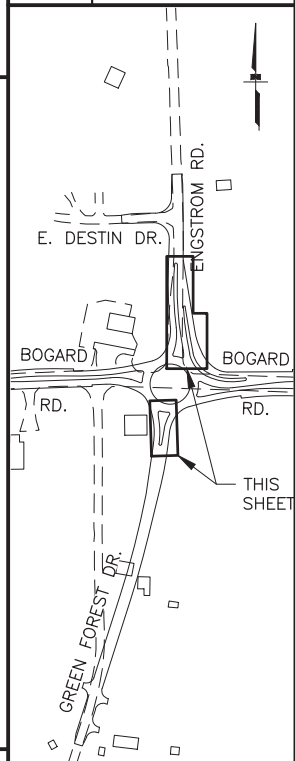
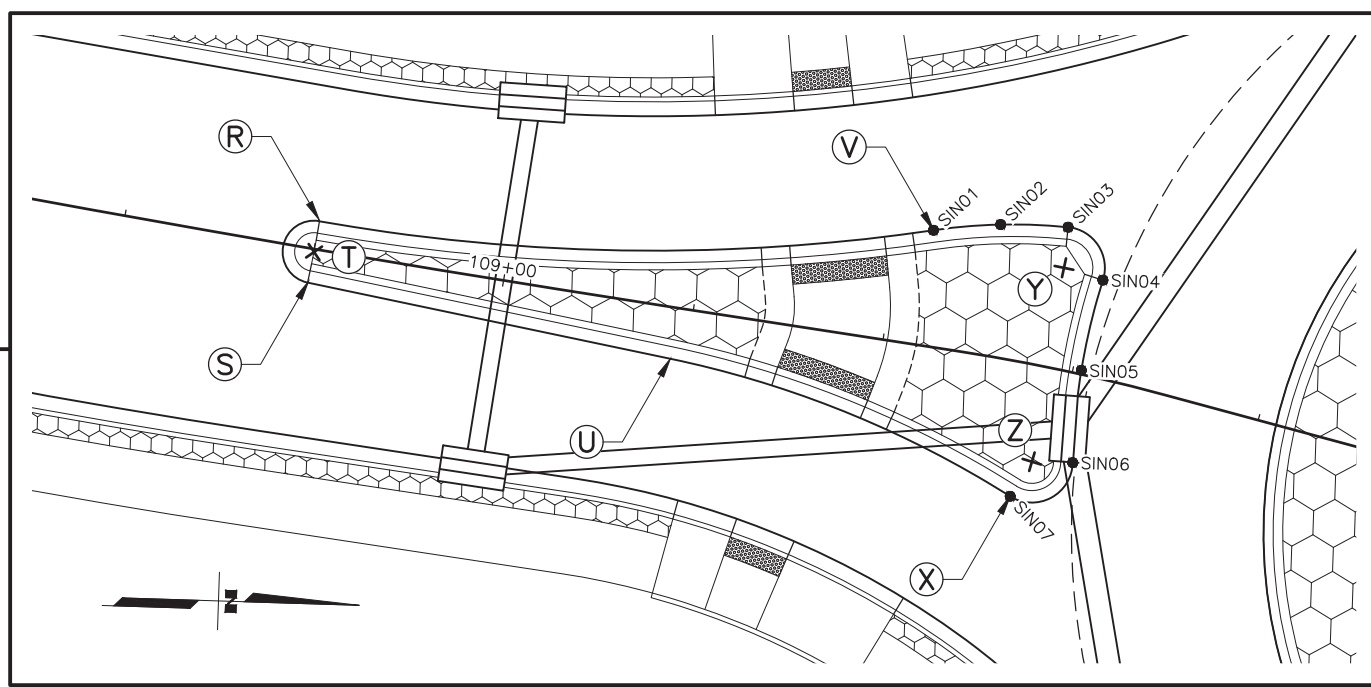
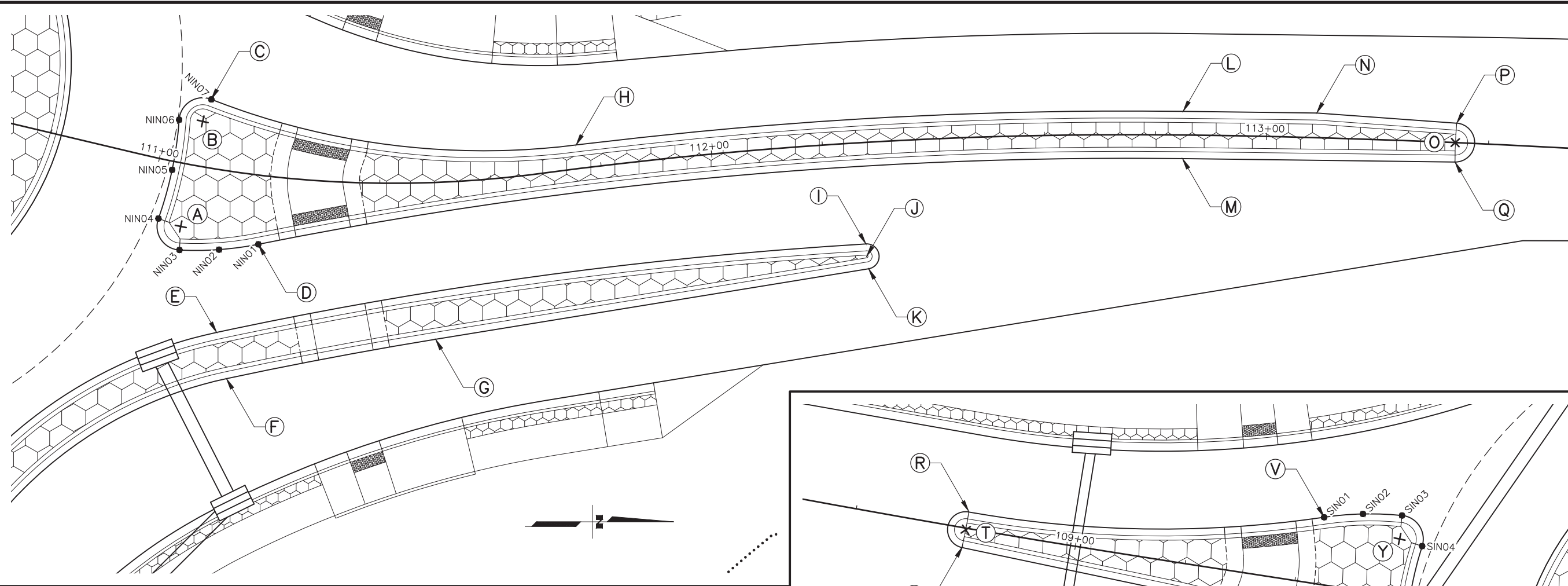
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SHEET NO.	TOTAL SHEETS
G09	G12
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001630/
 CFHWY00453**

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



NORTH ISLAND LAYOUT TABLE

POINT	ALIGNMENT	STATION	OFFSET (FT)	REMARKS
A	"EGTM"			BULL NOSE RADIUS = 4.25'
B	"EGTM"			BULL NOSE RADIUS = 4.25'
C	"EGTM"			BEGIN 135' RADIUS
D	"EGTM"			BEGIN 798' RADIUS
E	"EGTM"			BEGIN 784' RADIUS
F	"EGTM"			BEGIN 775.5' RADIUS
G	"EGTM"			END 775.5' RADIUS / BEGIN 806.5' RADIUS
H	"EGTM"			END 135' RADIUS
I	"EGTM"			END 784' RADIUS
J	"EGTM"			BULL NOSE RADIUS = 2.25'
K	"EGTM"			
L	"EGTM"			END 806.5' RADIUS
M	"EGTM"			END 798' RADIUS
N	"EGTM"			
O	"EGTM"			BULL NOSE RADIUS = 3.5'
P	"EGTM"			
Q	"EGTM"			

NORTH ISLAND NOSE GRADING POINTS

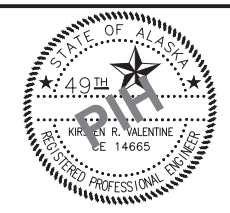
POINT	ALIGNMENT	STATION	OFFSET (FT)	ELEVATION (FT)	REMARKS
NIN01	"EGTM"				BEGIN 57' RADIUS
NIN02	"EGTM"				
NIN03	"EGTM"				END 57' RADIUS
NIN04	"EGTM"				BEGIN 68' RADIUS
NIN05	"EGTM"				
NIN06	"EGTM"				END 68' RADIUS
NIN07	"EGTM"				

SOUTH ISLAND LAYOUT TABLE

POINT	ALIGNMENT	STATION	OFFSET (FT)	REMARKS
R	"GFST"			BEGIN 200' RADIUS
S	"GFST"			
T	"GFST"			BULL NOSE RADIUS = 3.25'
U	"GFST"			BEGIN 108' RADIUS
V	"GFST"			END 200' RADIUS
X	"GFST"			END 108' RADIUS
Y	"GFST"			BULL NOSE RADIUS = 4.25'
Z	"GFST"			BULL NOSE RADIUS = 4.25'

SOUTH ISLAND NOSE GRADING POINTS

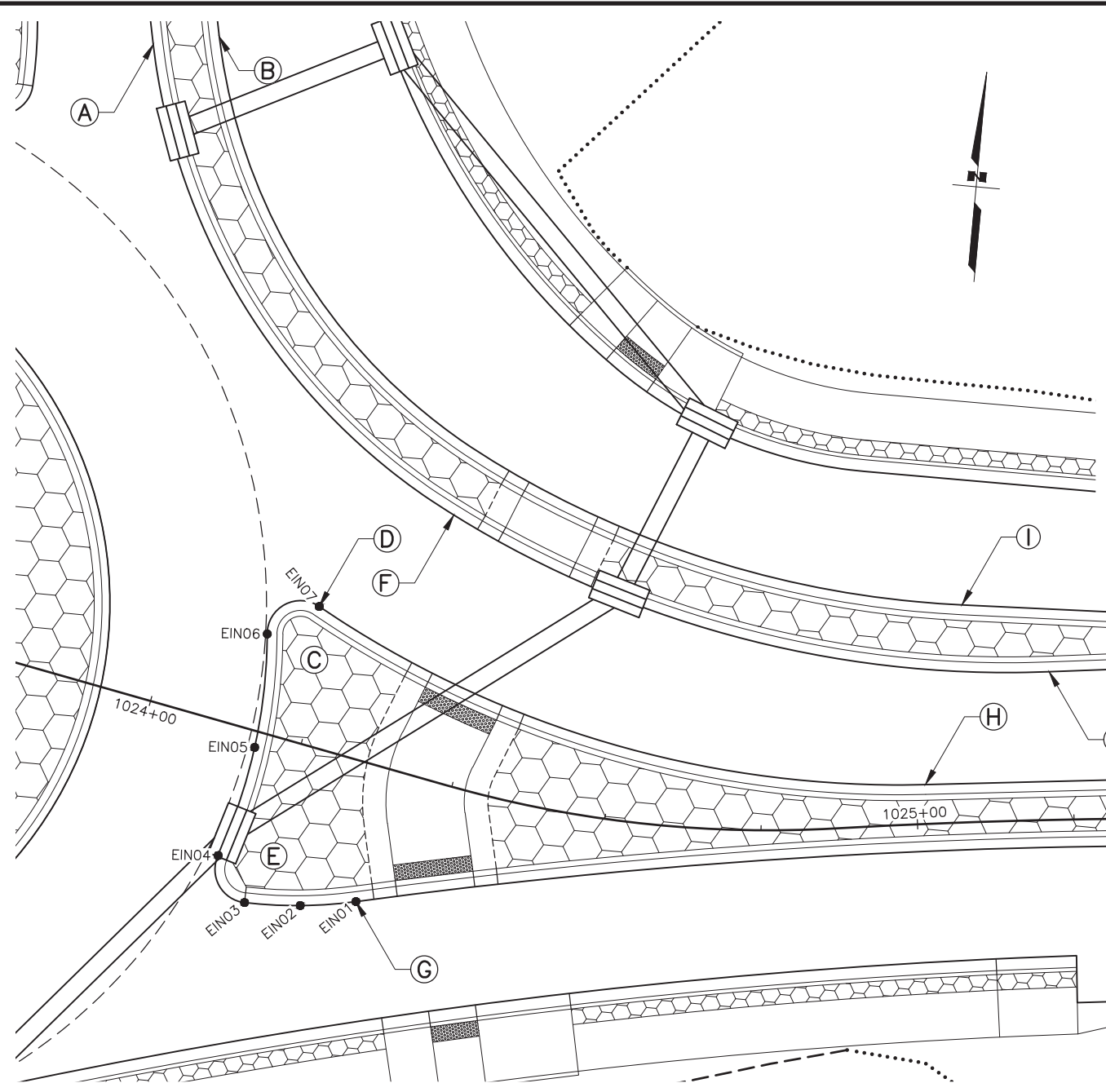
POINT	ALIGNMENT	STATION	OFFSET (FT)	ELEVATION (FT)	REMARKS
SIN01	"GFST"				BEGIN 57' RADIUS
SIN02	"GFST"				
SIN03	"GFST"				END 57' RADIUS
SIN04	"GFST"				BEGIN 68' RADIUS
SIN05	"GFST"				
SIN06	"GFST"				END 68' RADIUS
SIN07	"GFST"				



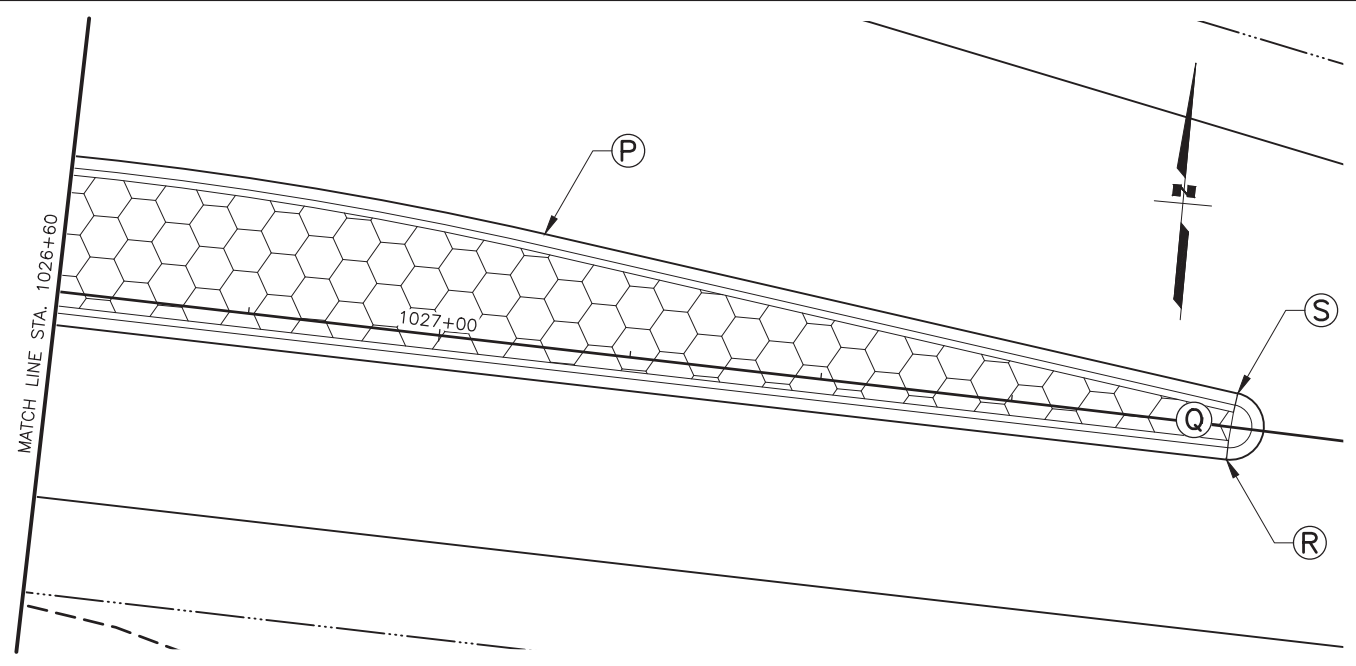
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP**
**NORTH & SOUTH
 SPLITTER ISLAND
 LAYOUT & GRADING**

DRAWING LOCATION: W:\PROJECTS\HSIP BOGARD ENGSTROM RA - CFHWY00453\PLANSET\00453_608_SPLITTER ISLANDS.DWG
 DATE: 6/22/2022 12:39 PM
 TIME: 12:39 PM
 SCALE: 1"=10'/20'
 DESIGNED BY: ZDK
 CHECKED BY: KRV
 DRAFTED BY: ZDK



EAST ISLAND LAYOUT TABLE				
POINT	ALIGNMENT	STATION	OFFSET (FT)	REMARKS
A	"BGRD"	1023+77.36	80.73' LT	BEGIN 82' RADIUS
B	"BGRD"	1023+85.20	84.00' LT	BEGIN 73.5' RADIUS
C	"BGRD"	1024+16.08	13.47' LT	BULL NOSE RADIUS = 4.25'
D	"BGRD"	1024+17.41	17.50' LT	BEGIN 132' RADIUS
E	"BGRD"	1024+17.91	17.28' RT	BULL NOSE RADIUS = 4.25'
F	"BGRD"	1024+30.74	33.43' LT	END 82' RADIUS / BEGIN 135' RADIUS
G	"BGRD"	1024+32.24	17.46' RT	BEGIN 798' RADIUS
H	"BGRD"	1025+01.23	5.00' LT	END 132' RADIUS
I	"BGRD"	1025+06.66	27.77' LT	END 73.5' RADIUS
J	"BGRD"	1025+17.23	18.92' LT	END 135' RADIUS
K	"BGRD"	1025+34.50	22.65' LT	BULL NOSE RADIUS = 3.25'
L	"BGRD"	1025+34.62	19.40' LT	
M	"BGRD"	1025+34.65	25.90' LT	
N	"BGRD"	1026+09.29	10.54' LT	BEGIN 402' RADIUS
O	"BGRD"	1026+26.39	3.50' RT	END 798' RADIUS
P	"BGRD"	1027+09.72	11.74' LT	END 402' RADIUS
Q	"BGRD"	1027+82.93	0.10' LT	BULL NOSE RADIUS = 3.5'
R	"BGRD"	1027+82.95	3.43' RT	
S	"BGRD"	1027+83.29	3.55' LT	

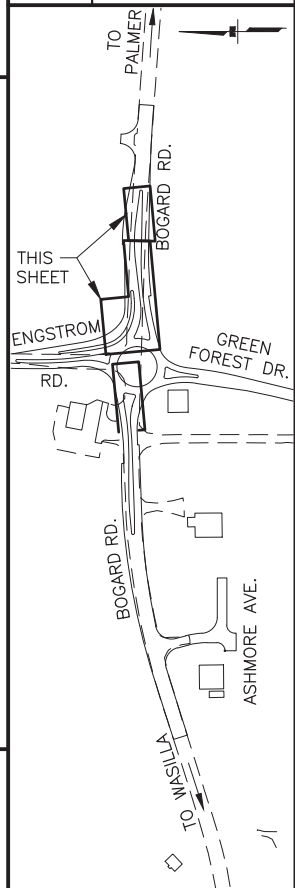


EAST ISLAND NOSE GRADING POINTS					
POINT	ALIGNMENT	STATION	OFFSET (FT)	ELEVATION (FT)	REMARKS
EIN01	"BGRD"	1024+32.24	17.46' RT	365.82'	BEGIN 57' RADIUS
EIN02	"BGRD"	1024+25.54	19.89' RT	365.63'	
EIN03	"BGRD"	1024+18.59	21.47' RT	365.44'	END 57' RADIUS
EIN04	"BGRD"	1024+13.71	16.62' RT	365.09'	BEGIN 65' RADIUS
EIN05	"BGRD"	1024+14.41	2.06' RT	365.39'	
EIN06	"BGRD"	1024+12.00	12.32' LT	365.70'	END 68' RADIUS
EIN07	"BGRD"	1024+17.41	17.50' LT	366.16'	

SHEET NO. G10	TOTAL SHEETS G12
STATE ALASKA	YEAR 2024

PROJECT DESIGNATION
**0001630/
CFHWY00453**

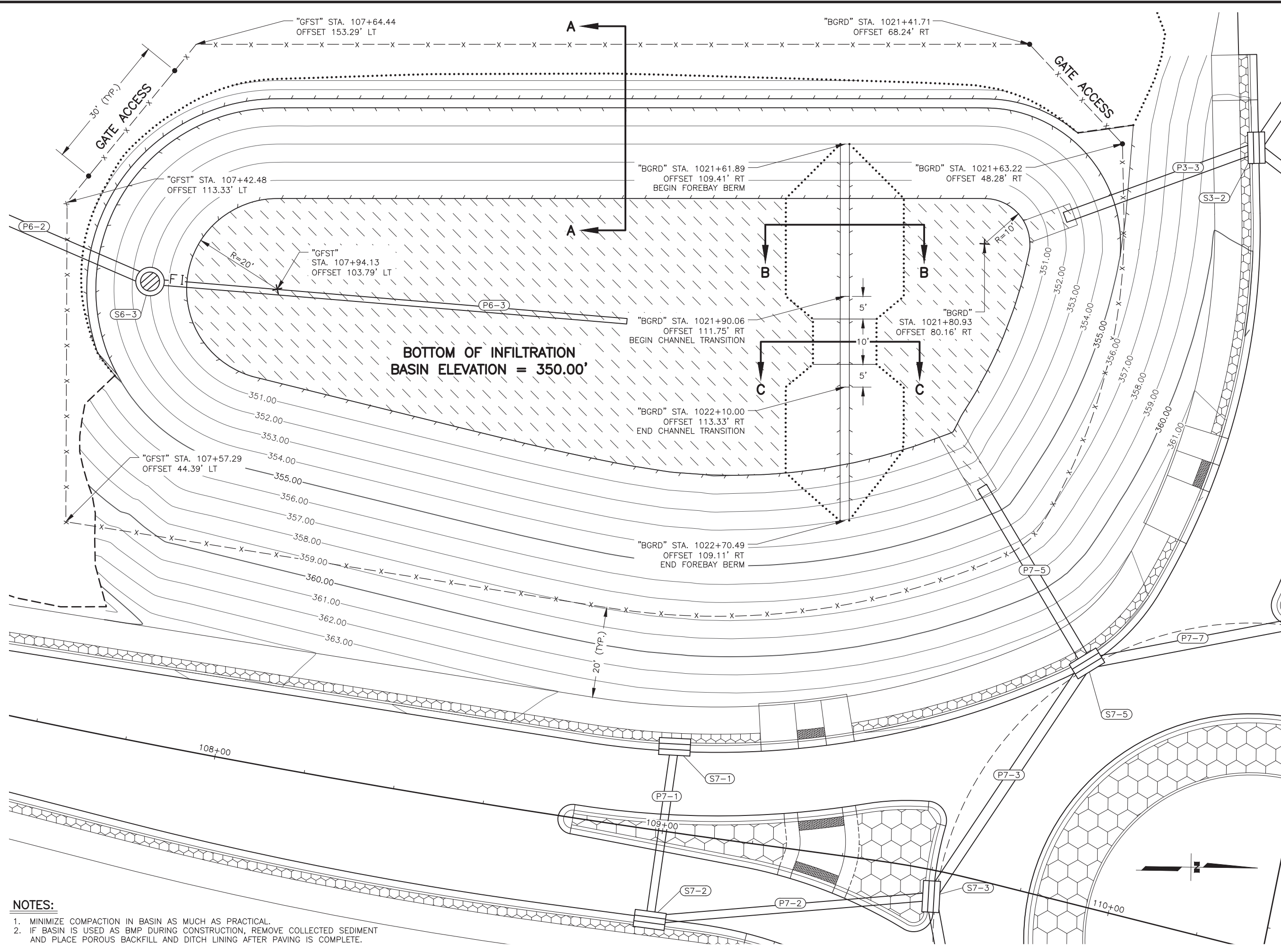
NO.	REVISION



STATE OF ALASKA DOT&PF
411 AVIATION AVENUE
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**HSIP: BOGARD RD AT
ENGSTROM RD & GREEN
FOREST DR INT IMP**
**EAST SPLITTER ISLAND
LAYOUT & GRADING**

ZDK DESIGNED BY: KRV CHECKED BY: ZDK DRAFTED BY: ZDK
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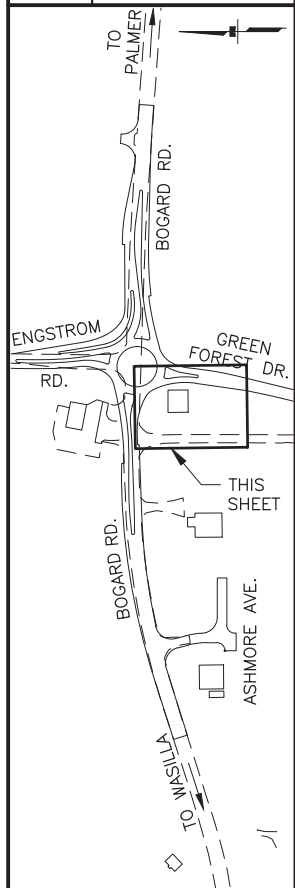


- NOTES:**
1. MINIMIZE COMPACTION IN BASIN AS MUCH AS PRACTICAL.
 2. IF BASIN IS USED AS BMP DURING CONSTRUCTION, REMOVE COLLECTED SEDIMENT AND PLACE POROUS BACKFILL AND DITCH LINING AFTER PAVING IS COMPLETE.

SHEET NO.	TOTAL SHEETS
G11	G12
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001630/
 CFHWY00453**

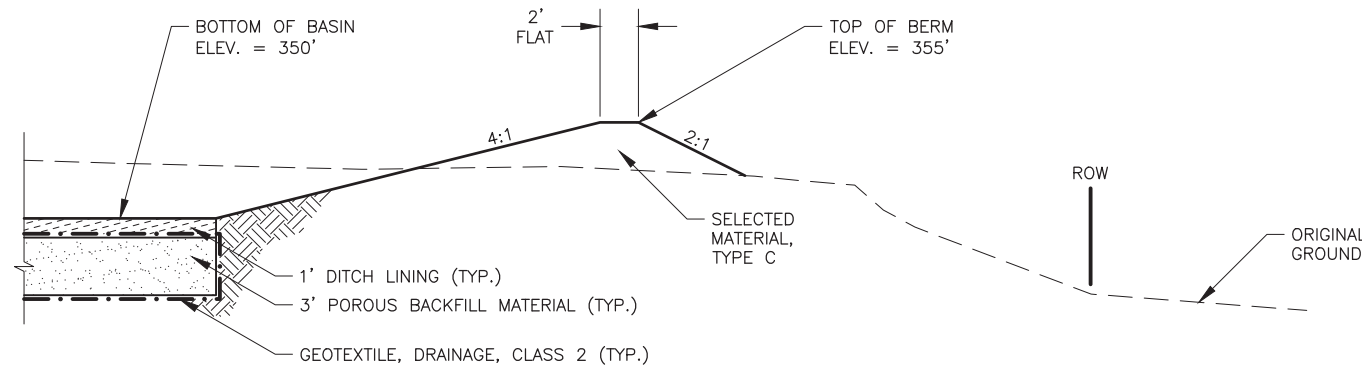
NO.	REVISION



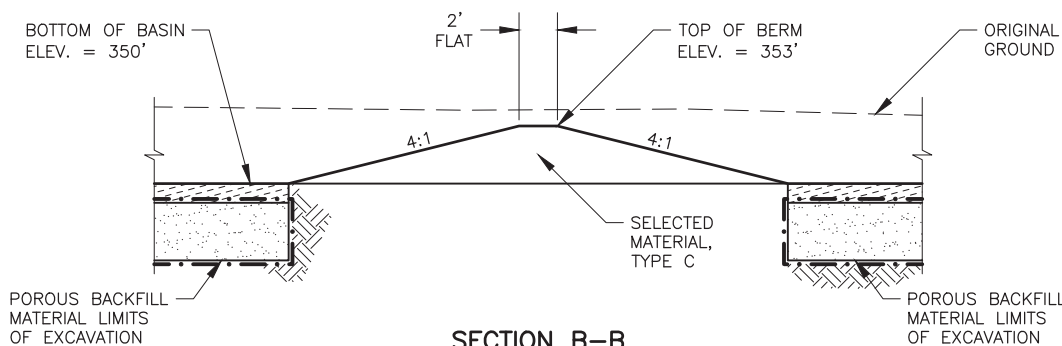
STATE OF ALASKA DOT&PF
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 ANCHORAGE, AK 99502
 (907) 269-0590

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**HSIP: BOGARD RD AT
 ENGSTROM RD & GREEN
 FOREST DR INT IMP**
 DRAINAGE
 INFILTRATION BASIN
 GRADING PLAN

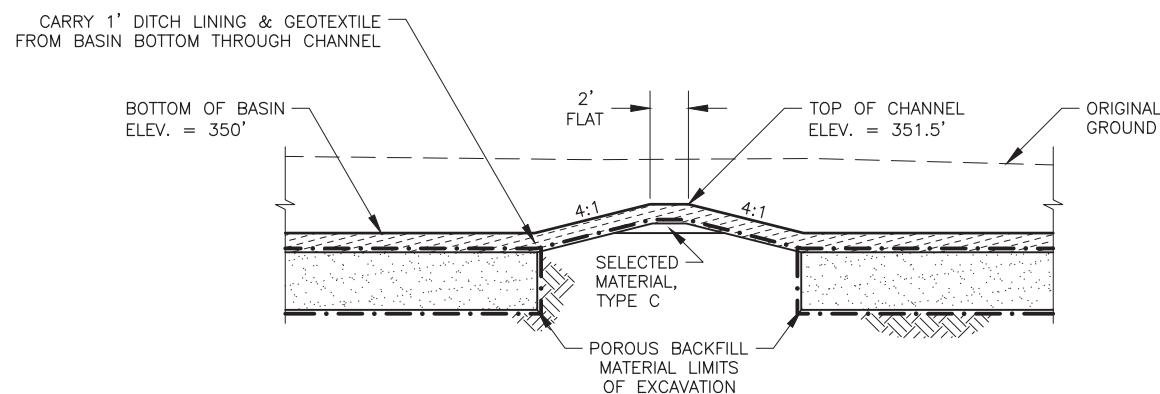
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SECTION A-A

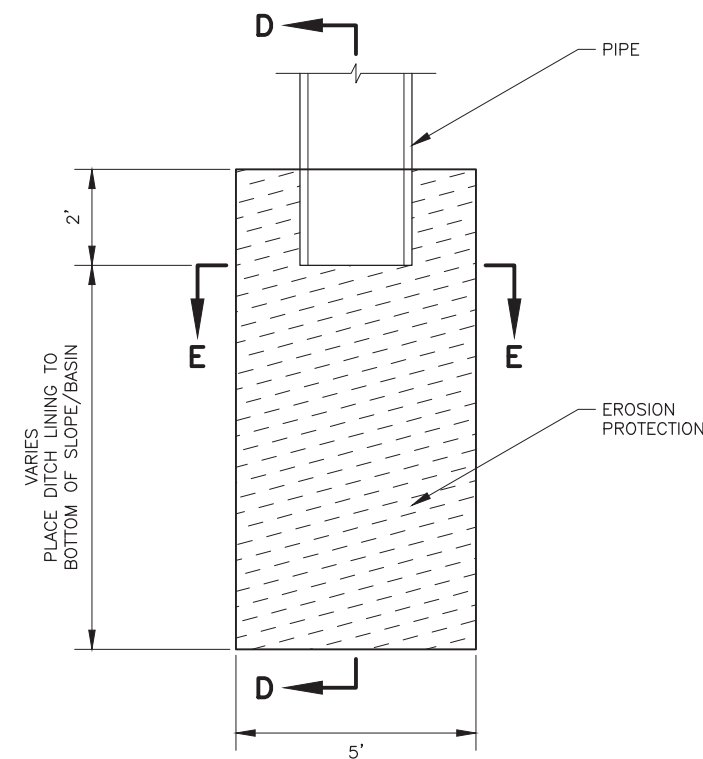


SECTION B-B

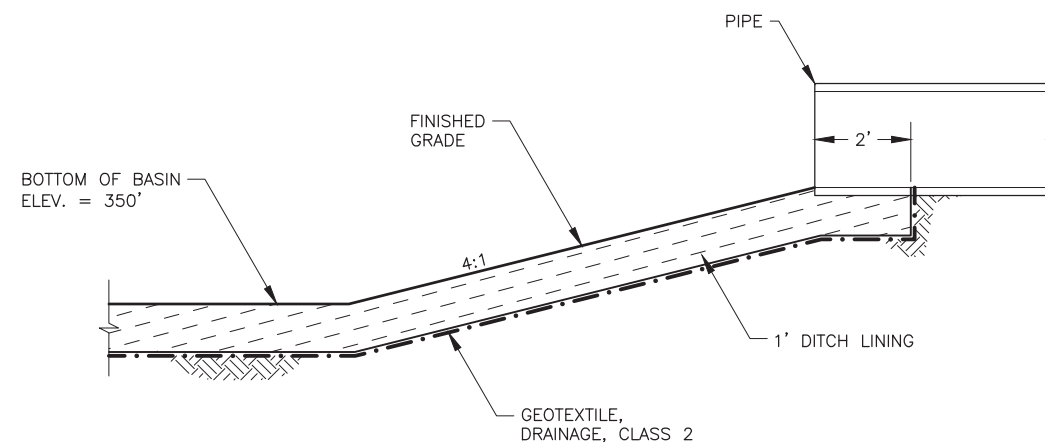


SECTION C-C

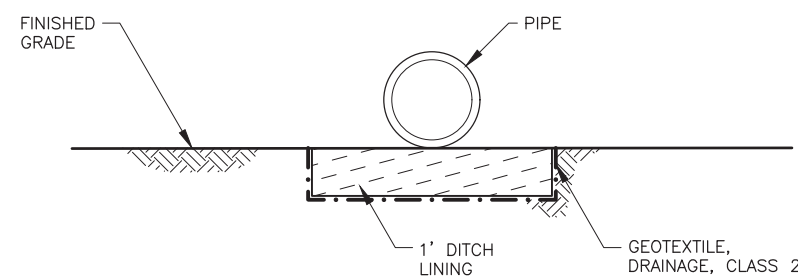
**INFILTRATION BASIN
AND FOREBAY BERM DETAILS**



PLAN



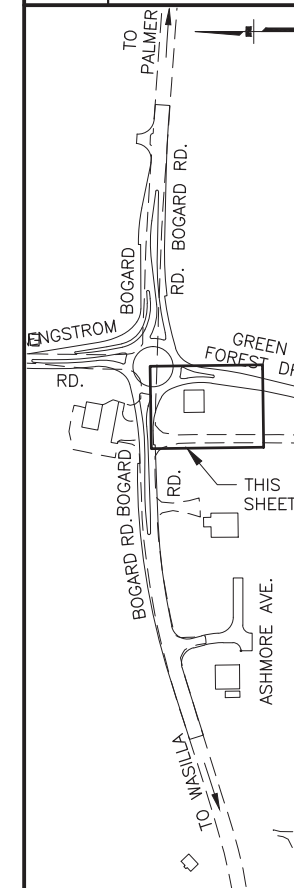
SECTION D-D



SECTION E-E

**INFILTRATION BASIN
PIPE OUTFALL EROSION PROTECTION**

SHEET NO.	TOTAL SHEETS
G12	G12
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
0001630/ CFHWY00453	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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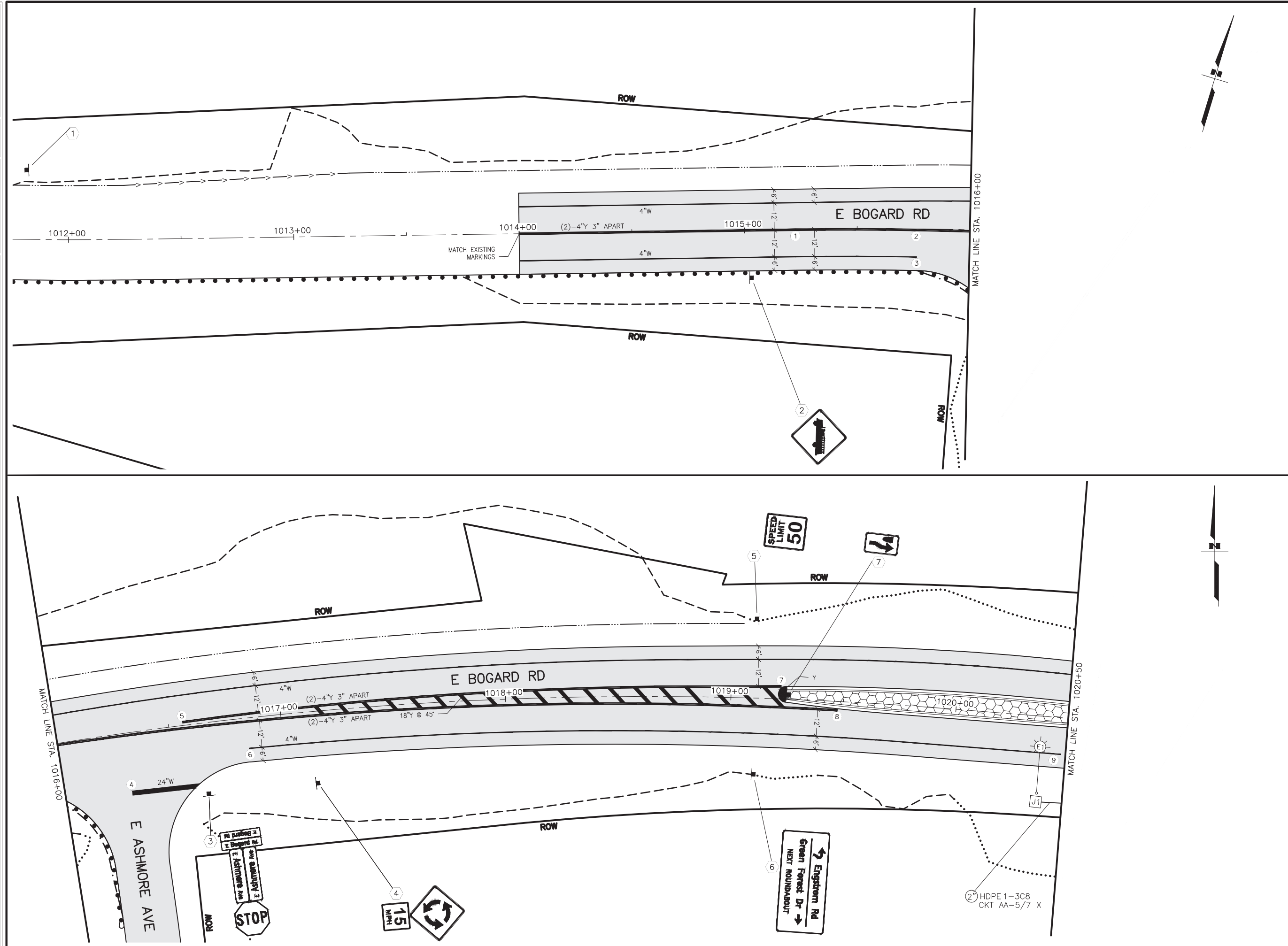
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
HSIP: BOGARD RD AT
ENGSTROM RD & GREEN
FOREST DR INT IMP
DRAINAGE
INFILTRATION BASIN
GRADING DETAILS

DESIGNED BY: ZJH
 CHECKED BY: ROR
 DRAFTED BY: MF

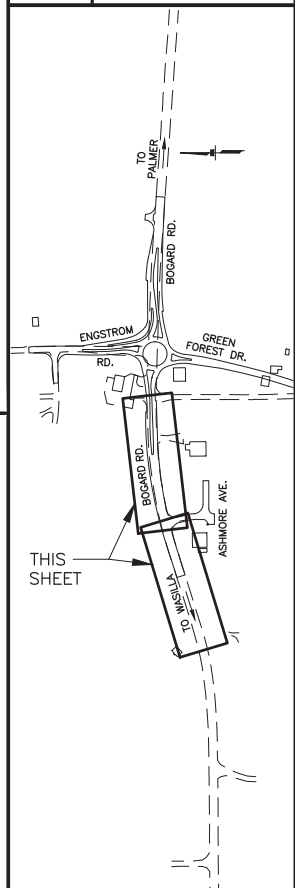
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SHEET NO.	TOTAL SHEETS
H13	H22
STATE	YEAR
ALASKA	2022
PROJECT DESIGNATION	
0001630/ CFHWY00435	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



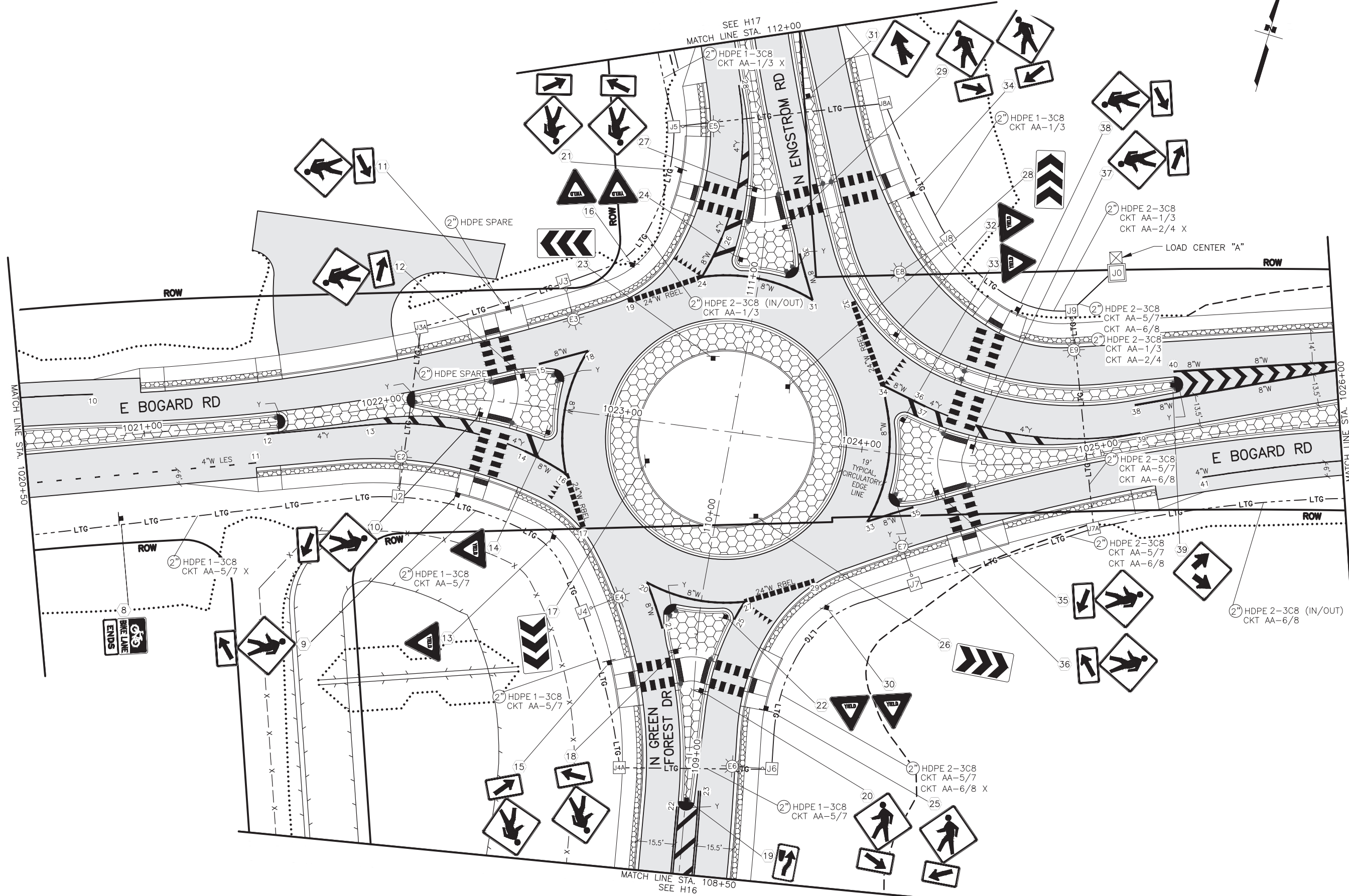
STATE OF ALASKA DOT&PF
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 ANCHORAGE, AK 99502
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

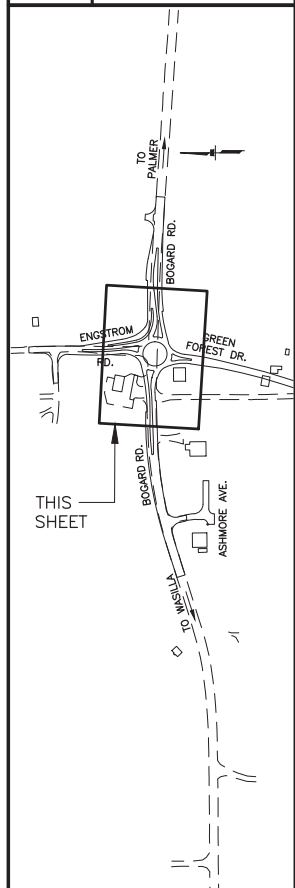
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 ENGSTROM ROAD AND
 GREEN FOREST DRIVE
 INTERSECTION IMPROVEMENTS

SIGNING, STRIPING, &
 ILLUMINATION
 BOP TO 1021+00

DESIGNED BY: ZJH
 CHECKED BY: ROR
 DRAFTED BY: MF
 SCALE: _____
 DATE: 6/22/2022 12:42 PM
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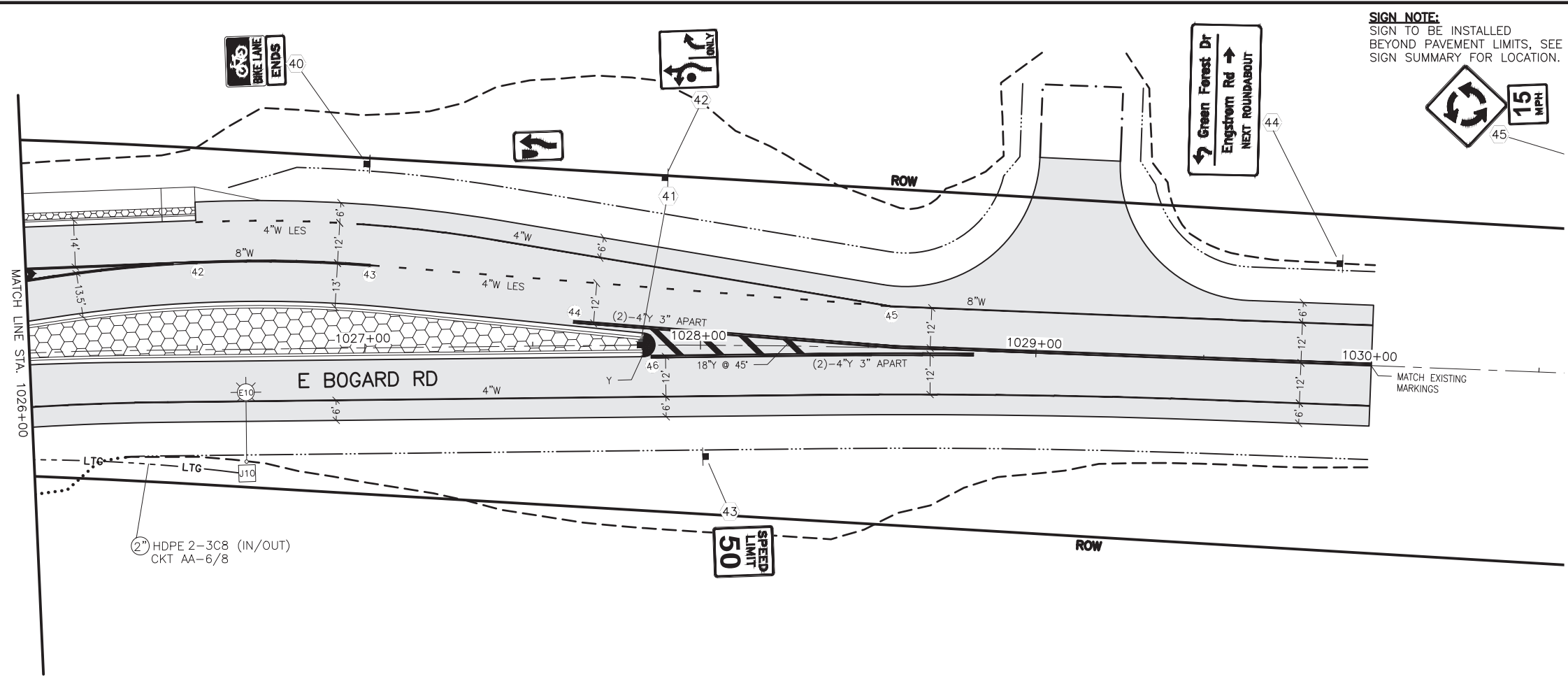
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H14	H22
STATE	YEAR
ALASKA	2022
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0001630/ CFHWY00435	
NO.	REVISION
DATE	
NO.	REVISION
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NO.	REVISION
DATE	



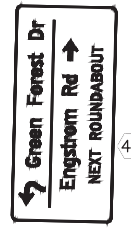
STATE OF ALASKA DOT&PF
 411 AVIATION AVENUE
 ANCHORAGE, AK 99502
 (907) 269-0590

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 HSIP: BOGARD ROAD AT
 ENGSTROM ROAD AND
 GREEN FOREST DRIVE
 INTERSECTION IMPROVEMENTS
**SIGNING, STRIPING, &
 ILLUMINATION
 ROUNDABOUT**

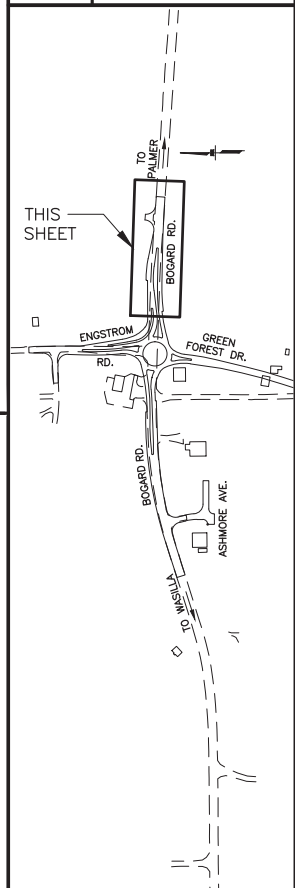
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 DATE: 6/22/2022 12:42 PM
 TIME: 12:42 PM
 SCALE: [Blank]
 DESIGNED BY: ZJH
 CHECKED BY: ROR
 DRAFTED BY: MF



SIGN NOTE:
 SIGN TO BE INSTALLED
 BEYOND PAVEMENT LIMITS, SEE
 SIGN SUMMARY FOR LOCATION.



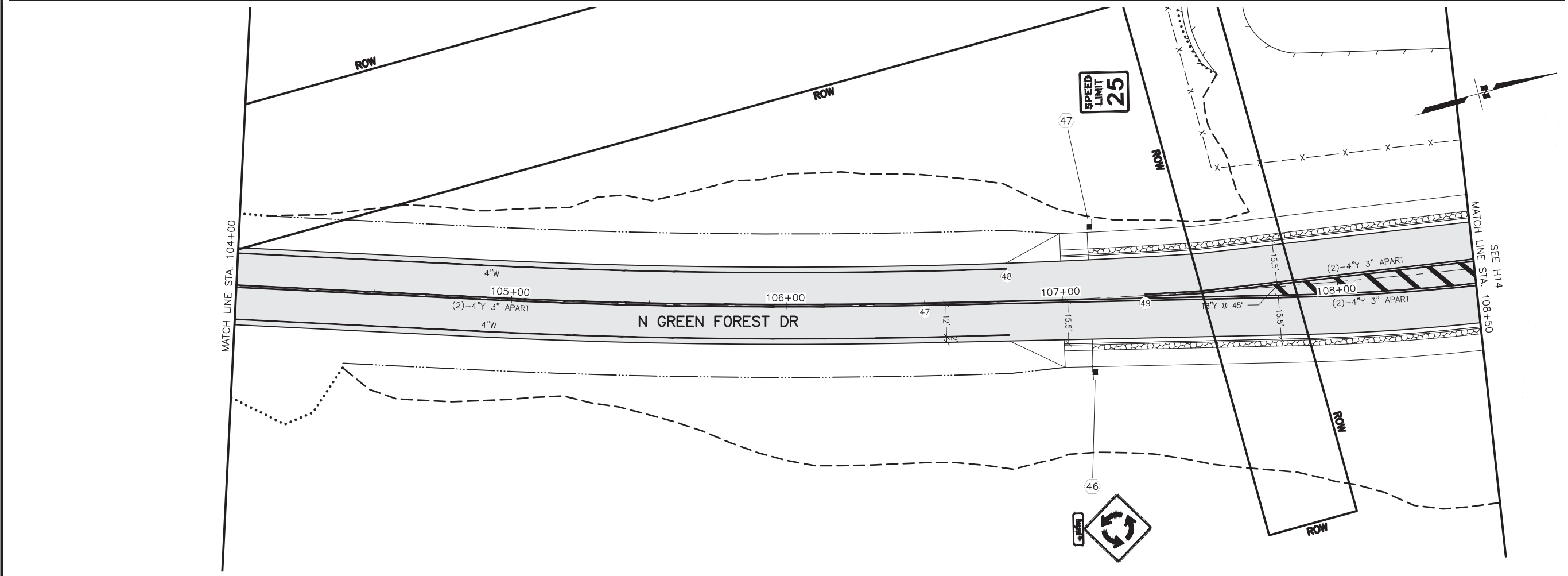
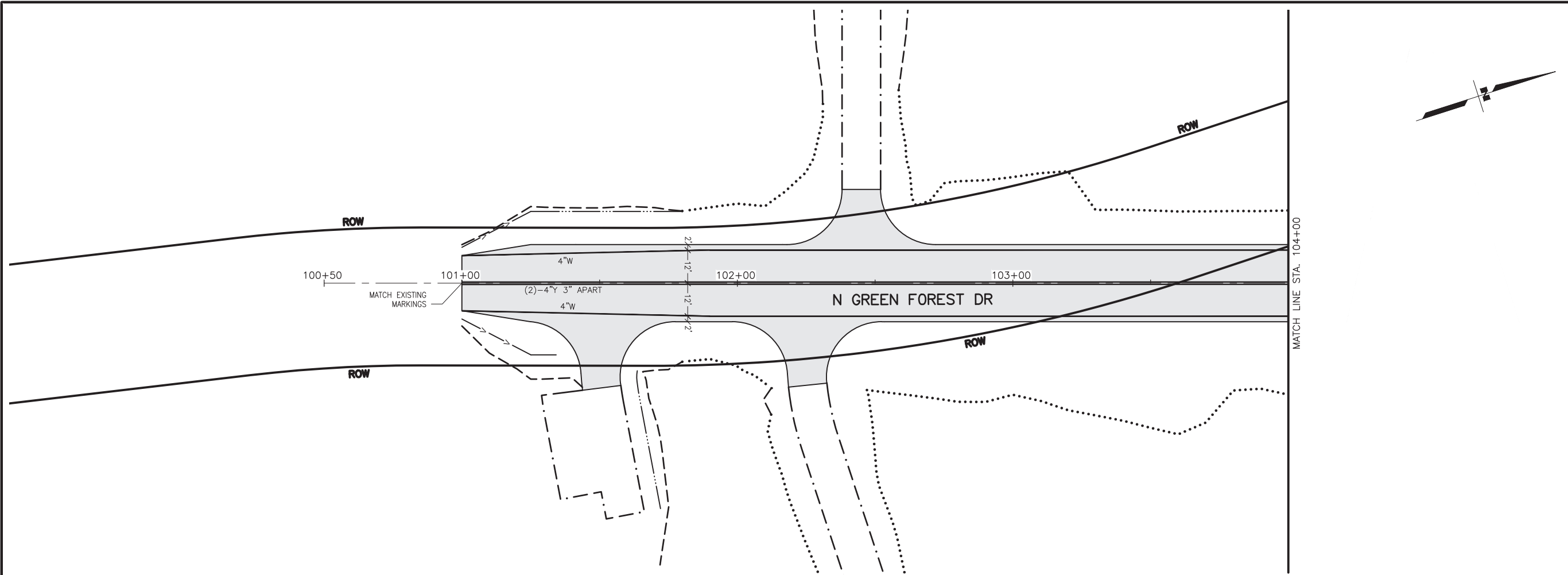
SHEET NO.	TOTAL SHEETS
H15	H22
STATE	YEAR
ALASKA	2022
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0001630/ CFHWY00435	
NO.	REVISION
DATE	
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DATE	
NO.	REVISION
DATE	



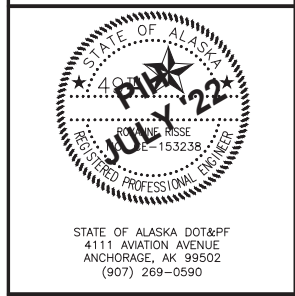
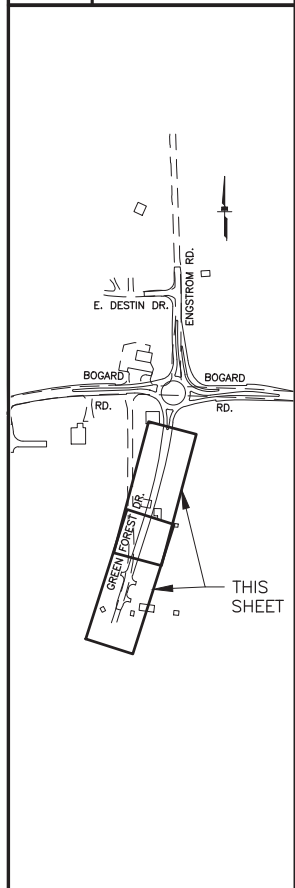
STATE OF ALASKA DOT&PF
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 HSIP: BOGARD ROAD AT
 ENGSTROM ROAD AND
 GREEN FOREST DRIVE
 INTERSECTION IMPROVEMENTS
**SIGNING, STRIPING, &
 ILLUMINATION**
 1025+50 TO EOP

DESIGNED BY: ZJH
 CHECKED BY: ROR
 DRAFTED BY: MF
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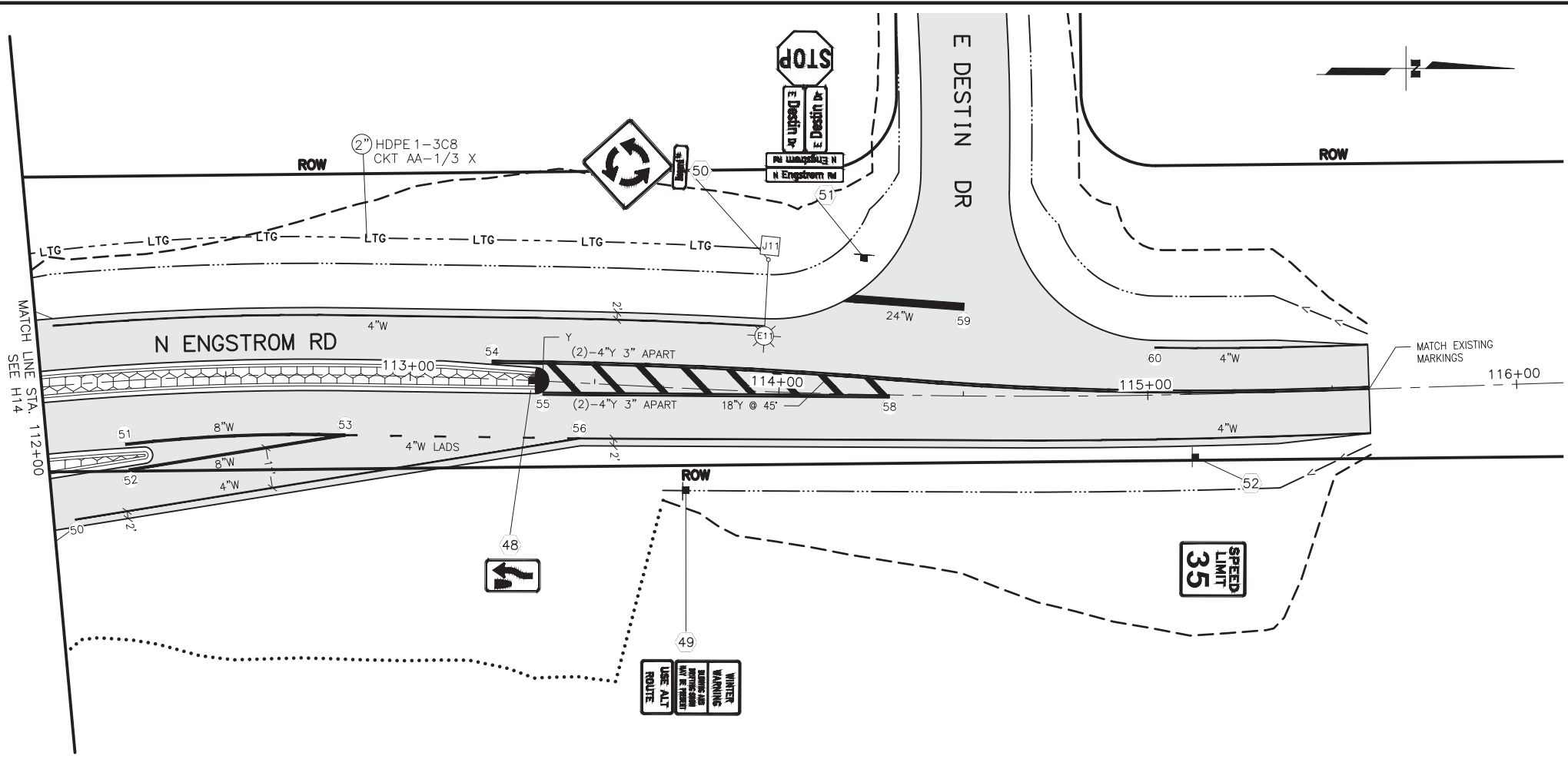
SHEET NO.	TOTAL SHEETS
H16	H22
STATE	YEAR
ALASKA	2022
PROJECT DESIGNATION	
0001630/ CFHWY00435	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



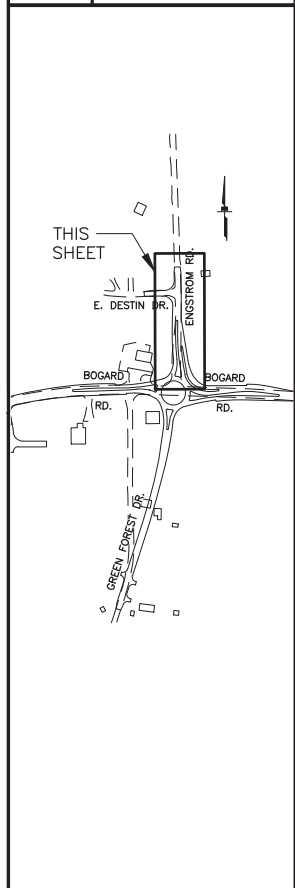
STATE OF ALASKA DOT&PF
 411 AVIATION AVENUE
 ANCHORAGE, AK 99502
 (907) 269-0590

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 HSIP: BOGARD ROAD AT
 ENGSTROM ROAD AND
 GREEN FOREST DRIVE
 INTERSECTION IMPROVEMENTS
 SIGNING, STRIPING, &
 ILLUMINATION
 BOP TO 108+50

DESIGNED BY: ZJH
 CHECKED BY: ROR
 DRAFTED BY: MF
 SCALE: _____
 DATE: 6/22/2022
 TIME: 12:42 PM
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SHEET NO.	TOTAL SHEETS
H17	H22
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0001630/ CFHWY00435	
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DATE	
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**SIGNING, STRIPING, &
 ILLUMINATION**
 112+00 TO EOP