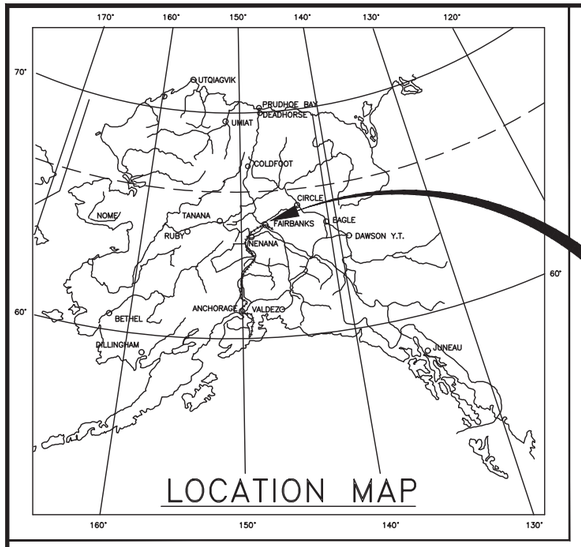
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	A1	201

CDS ROUTE:		MILEPOINT:			
175700		4.34	TO	5.57
175705		0.00	TO	0.27
175710		0.00	TO	0.29
175720		0.00	TO	0.70
175722		0.09	TO	0.18
175824		0.00	TO	1.07
175830		0.00	TO	0.85
175832		0.00	TO	0.01



LOCATION MAP

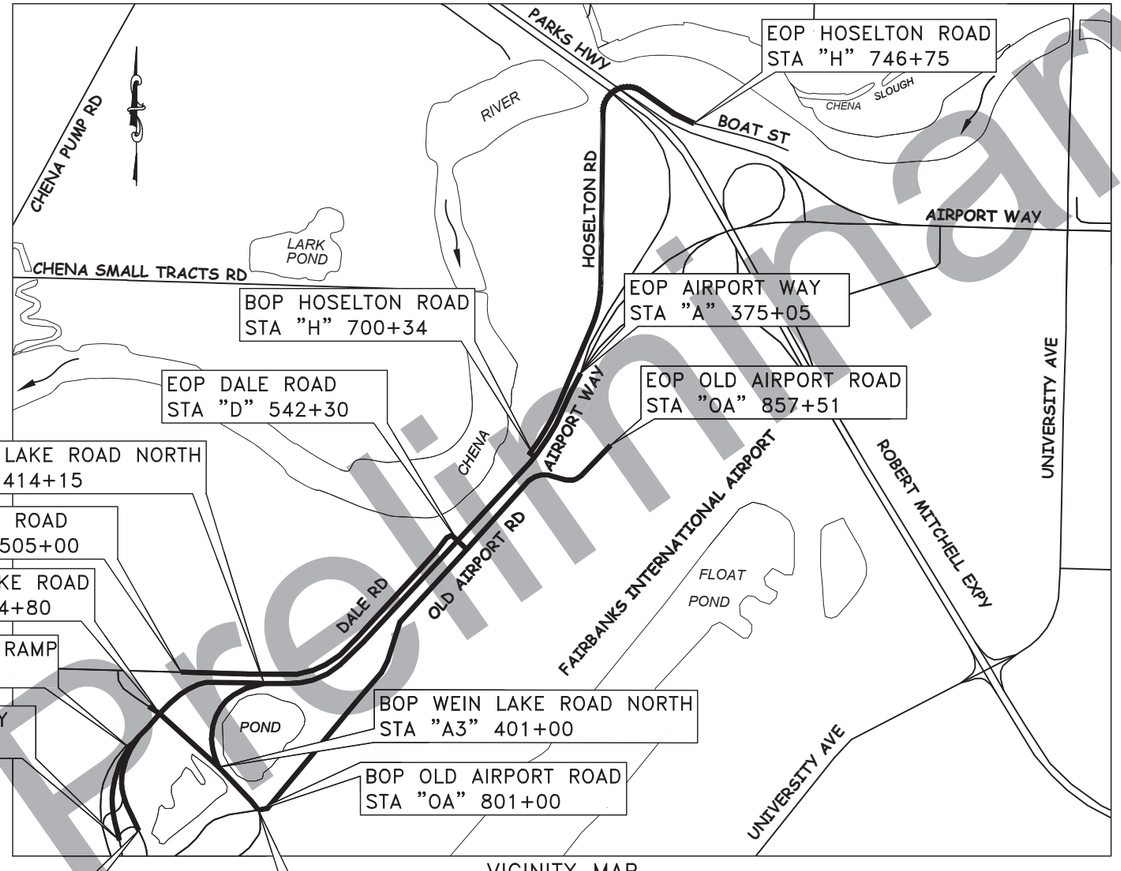
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

0610004/Z618720000

AIRPORT WAY WEST IMPROVEMENTS

GRADING, DRAINAGE, PAVING, PATHWAY, ILLUMINATION, SIGNING & STRIPING,
STORM DRAIN, WATER, SANITARY SEWER



VICINITY MAP

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND
A3–A7	SURVEY CONTROL
B1–B8	TYPICAL SECTIONS
C1–C2	ESTIMATE OF QUANTITIES & GENERAL NOTES
D1–D3	SUMMARY TABLES
E1–E7	DETAILS
F1–F54	PLAN & PROFILE
G1–G5	GRADING
H1–H33	SIGNING & STRIPING
H34–H56	ILLUMINATION
Q1–Q11	EROSION AND SEDIMENT CONTROL PLANS
T1–T2	TRAFFIC CONTROL PLANS (and/or DEVICES)
U1–U12	UTILITIES PLANS
V1–V34	STANDARD DRAWINGS

DESIGN DESIGNATIONS

	AIRPORT WAY	FRONTAGE ROADS
ADT (2012)	9,595	2,300
ADT (2035)	12,060	2,800
DHV (2035)	10.3%	10%
PERCENT TRUCKS (T)	5%	5%
DIRECTIONAL SPLIT (D)	45/55	45/55
DESIGN SPEED (V)	50 MPH	35 MPH
DESIGN ESALs (15 YEARS)	800,322	239,844

PROJECT SUMMARY

	AIRPORT WAY	FRONTAGE ROADS
WIDTH OF PAVEMENT	36–78 FT	24–40 FT
LENGTH OF PROJECT	6,545 FT	17,249 FT

DAVID FISCHER, P.E., PROJECT MANAGER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED BY:

_____ DATE _____

Sarah E. Schacher, P.E.
Preconstruction Engineer, Northern Region

ACCEPTED FOR CONSTRUCTION:

_____ DATE _____

Ryan F. Anderson, P.E.
Regional Director, Northern Region

Preliminary Plans

Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-A-Title-A1 Thu, Nov/05/20 01:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	A2	A7

	RECOVERED	SET
BLM MONUMENT	✠	
GLO MONUMENT	✠	
USC&GS MONUMENT	▲	
PRIMARY MONUMENT	✠	✠
CENTERLINE MONUMENT IN CASING	⊕	⊕
PRIMARY R.O.W. MONUMENT	⊕	✠
BEARING OBJECT	✳	
MISCELLANEOUS MONUMENT	⊗	
LINE OF SIGHT MONUMENT		⊕
CONCRETE R.O.W. MONUMENT	■	
BENCHMARK		BM
REBAR AND CAP	⊙	⊙
REBAR	⊕	●
IRON PIPE	●	
PK NAIL		▽
SPIKE		×
HUB AND TACK		⊡

CONSTRUCTION CENTERLINE — 5+00

MISCELLANEOUS CENTERLINE — 10+00

STATION EQUATION — "L"48+97.23 POT BK= / "O"48+97.23 PC AHD

PROJECT RIGHT-OF-WAY LINE — R/W

EXISTING RIGHT-OF-WAY LINE

EXISTING PROPERTY LINE

CONTROLLED ACCESS LINE — C/A

UTILITY EASEMENT LINE — PUE

TEMPORARY CONSTRUCTION PERMIT

TEMPORARY CONSTRUCTION EASEMENT

ACCESS OR SECTION LINE EASEMENT — ACCESS EASEMENT

PROPOSED CUT SLOPE LIMIT

PROPOSED FILL SLOPE LIMIT

SECTION LINE

1/4 SECTION LINE

1/16 SECTION LINE

	EXISTING	PROPOSED
SANITARY SEWER (FLOW DIRECTION →)	SS	SS
FUEL LINE	O	O
GAS LINE	G	G
WATER LINE	W	W
METER, VALVE, FIRE HYDRANT	W	W
EXISTING STORM DRAIN (FLOW DIRECTION →)	SD	
PROPOSED STORM DRAIN		S-10, S-11, P-11, P-10, MH
FIBER OPTIC LINE	FO	
DIRECT BURIAL TELEPHONE CABLE	T	T
DIRECT BURIAL ELECTRIC CABLE	E	E
ELECTRIC LINE (OVERHEAD)		
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
STUB POLE (POWER OR TELEPHONE)		
TELEPHONE DUCT	T	T
TELEPHONE PEDESTAL		
BURIED CABLE MARKER		
PIPELINE MARKER OR VALVE		
CATCH BASIN OR DROP INLET		
MANHOLE	MH	MH
SANITARY SEWER CLEAN OUT		

TOWNSHIP & RANGE LINE — T. 2 N. / T. 1 N. ; T. 1 E. ; T. 2 E.

OBLITERATION OF ROADWAY

CONCRETE CURB CUT/ CURB RAMP

	EXISTING	PROPOSED
ROADWAY/PATHWAY PAVEMENT EDGE		
FENCE		
CURB AND GUTTER		
DETECTABLE WARNINGS		
GUARDRAIL		
CULVERT PIPE		
SIGN		H
MAILBOX	MB	MB
RAILROAD TRACKS		
RAILROAD DEVICES	CROSS-BUCK, FLASHING LIGHT	CANTILEVER, SWITCH
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS	H	H = HOUSE, G = GARAGE, M = MERCHANT/STORE, B = BARN, S = SHED, P = PRIVY, SS= SERVICE STATION, W = WAREHOUSE
POST OR BOLLARD		
WELL OR MONITORING WELL	W	
SEPTIC PIPE	S, WW	
FUEL TANK FILL PIPE/VENT	P	
SATELLITE DISH	SAT. DISH	
TEST HOLE	TH	
CONIFER TREE		
DECIDUOUS TREE		
GRAVE		
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		
DELINEATOR/GUIDE MARKER		

	EXISTING	PROPOSED
JUNCTION BOX, TYPE IA		5
JUNCTION BOX, TYPE II		6
JUNCTION BOX, TYPE III		3
SIGNAL FACE, VEHICULAR	42	42
SIGNAL FACE, BACKPLATE	42	42
SIGNAL FACE, LEFT TURN, BACKPLATE	43	43
SIGNAL FACE, PEDESTRIAN	90	90
LOOP DETECTOR	33	73
VIDEO DETECTOR	2	2
RADAR DETECTOR	4	4A
OPTICOM DETECTOR	1	1
PEDESTRIAN PUSH BUTTON	1	1
SIGNAL POST W/O MAST ARM		1
SIGNAL POLE W/MAST ARM		4
SIGNAL CONTROLLER		
LOAD CENTER		
LUMINAIRE		2
RIGID METAL CONDUIT		

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER
####

LEGEND

Preliminary Plans

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-A-Legend-A2 Thu, Nov/05/20 01:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	A3	A7

NOTES

1. THE FIELD SURVEY WAS PERFORMED BY R&M CONSULTANTS, INC. (R&M) BETWEEN OCTOBER 2, AND OCTOBER 16, 2016 AND BY ADOT&PF, NORTHERN REGION FROM NOVEMBER 16, 2005 TO FEBRUARY 10, 2006; MAY 19, 2006 TO JUNE 8, 2006; AND MAY 14, 2009 TO JULY 24, 2009. R&M FIELD SURVEY INFORMATION IS LOCATED IN R&M FIELD BOOKS 2385.02 BOOK 1, PAGES 1 THROUGH 75 AND 2385.02 BOOK 2, PAGES 1 THROUGH 62.
2. ALL DIMENSIONS AND COORDINATES SHOWN HEREON ARE IN U. S. SURVEY FEET. DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES IN U. S. SURVEY FEET.
3. PROJECT HORIZONTAL CONTROL POINT POSITIONS WERE ESTABLISHED USING NETWORKED STATIC GPS METHODS. THE GPS NETWORK WAS ADJUSTED USING A SIMULTANEOUS LEAST SQUARES ADJUSTMENT CONSTRAINED TO THE RECORD NAD83 (2011) (EPOCH:2010.0000) POSITION FOR SURVEY CONTROL POINTS NO. 1 AND NO. 2 AS SHOWN ON THE RECORD OF SURVEY, PRE-CONSTRUCTION CONTROL DIAGRAM OF: AIRPORT WAY PREVENTATIVE MAINTENANCE – STAGE II, PSA NO. 025-4-1-003 / AKSAS 63278, RECORDED AS PLAT NO. 2014-128 IN THE FAIRBANKS RECORDING DISTRICT.
4. PROJECT CONTROL POINTS ESTABLISHED BY ADOT&PF, NORTHERN REGION WERE RECOVERED AND VERIFIED BY R&M USING NETWORKED STATIC GPS METHODS.
5. WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS, CORNERS, OR ACCESSORIES, WHICH WILL BE DISTURBED OR BURIED, SHALL BE REFERENCED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION (A.S. 19.10.260) AND RECORDED (A.S. 34.65.040).
6. VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO USE.
7. BACKGROUND MAPPING IS SHOWN FOR ORIENTATION PURPOSES ONLY.
8. SEE SHEET A5 FOR ALIGNMENT TABLES.
9. SEE SHEET A6 FOR POINT TABLES FOR THIS SHEET.

HORIZONTAL CONTROL STATEMENT

COORDINATE SYSTEM:
THIS PROJECT IS LOCATED ENTIRELY WITHIN THE ALASKA, FAIRBANKS 05-05-15, LOW DISTORTION PROJECTION (LDP), A LOCAL GROUND, LOW DISTORTION, GRID COORDINATE SYSTEM, EXPRESSED IN U.S. SURVEY FEET, DEVELOPED BY THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES, NORTHERN REGION.

FAIRBANKS 05-05-15 LDP DEFINITION:
LINEAR UNIT: U.S. SURVEY FOOT (USFT)
DATUM: NAD83 (2011) (EPOCH:2010.0000)
PROJECTION: LAMBERT CONFORMAL CONIC (SINGLE PARALLEL)
STANDARD PARALLEL AND GRID ORIGIN: 64°51'00.0" N
CENTRAL MERIDIAN (GRID ORIGIN): 146°56'00.0" W
FALSE NORTHING: 200,000.0 USFT
FALSE EASTING: 800,000.0 USFT
STANDARD PARALLEL SCALE: 1.00003 (EXACT)

THE BASIS OF COORDINATES FOR THIS PROJECT IS POINT NO. 1, A RECOVERED PRIMARY MONUMENT (3 1/4" ALUMINUM CAP ON 2 1/2" ALUMINUM PIPE) LOCATED 210'± NE OF THE INTERSECTION OF AIRPORT WAY AND HOSELTON ROAD, 25.3'± NW OF THE WEST EDGE OF PAVEMENT OF AIRPORT WAY, 25.2'± SE'LY OF A UTILITY POLE AND 30.2' ± SE'LY OF A TELEPHONE PEDESTAL. THE NAD83 (2011) (EPOCH:2010.0000) POSITION FOR POINT NO. 1 IS BASED ON TWO, SIX HOUR GPS OBSERVATIONS WHICH WERE PROCESSED AND ADJUSTED USING NGS OPUS PROJECTS AS SHOWN ON THE RECORD OF SURVEY, PRE-CONSTRUCTION CONTROL DIAGRAM OF: AIRPORT WAY PREVENTATIVE MAINTENANCE – STAGE II, PSA NO. 025-4-1-003 / AKSAS 63278, RECORDED AS PLAT NO. 2014-128 IN THE FAIRBANKS RECORDING DISTRICT.

POINT NO. 1, NAD83 (2011) (EPOCH:2010.0000)
LATITUDE 64°49'50.65191" NORTH, LONGITUDE 147°50'46.78104" WEST
FAIRBANKS 05-05-15 LDP COORDINATES, (U.S. SURVEY FEET)
NORTH 193,979.2073 USFT, EAST 657,798.3159 USFT

PROJECT BEARINGS ARE FAIRBANKS 05-05-15 LDP GRID BEARINGS.

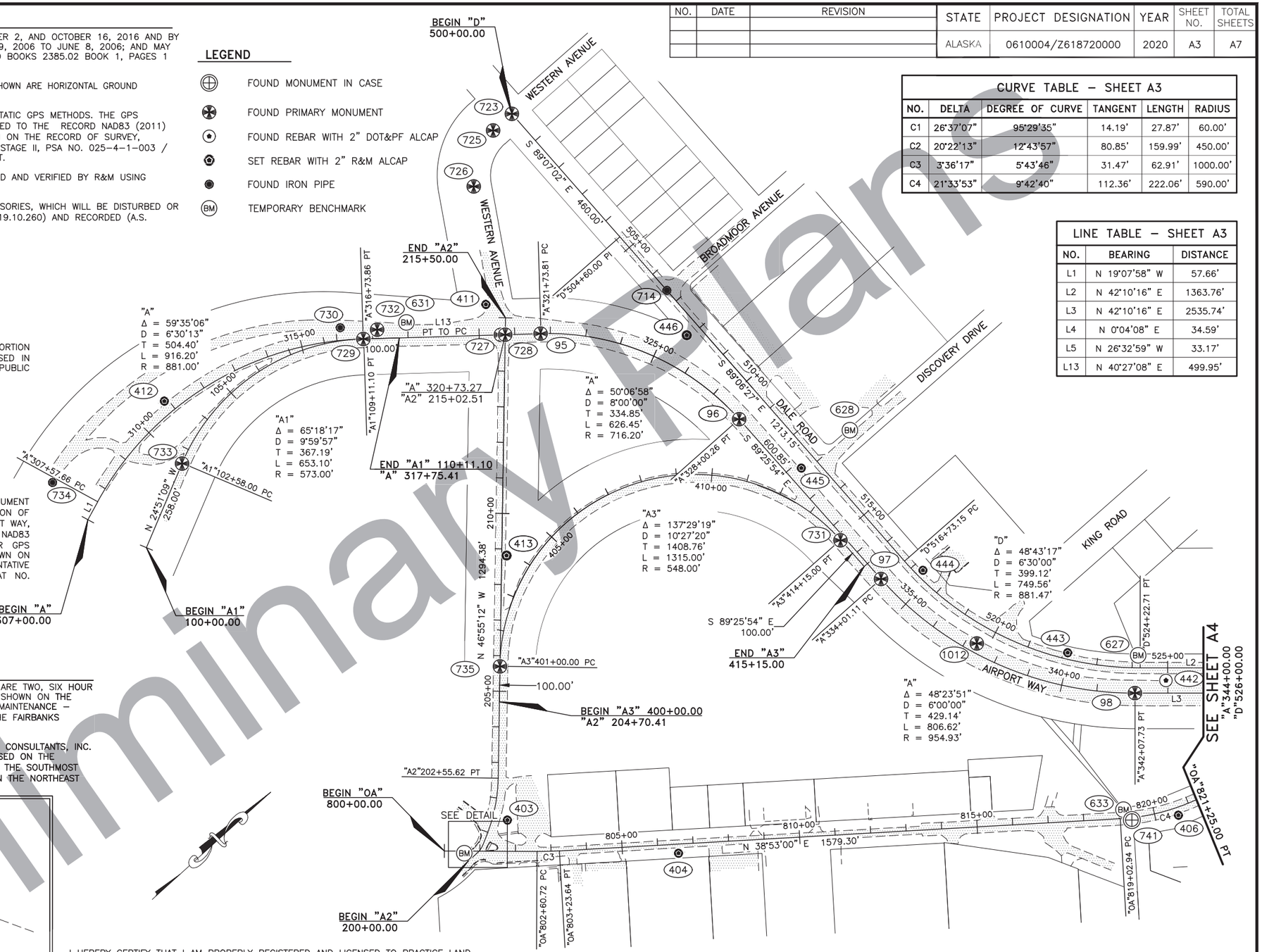
VERTICAL CONTROL STATEMENT

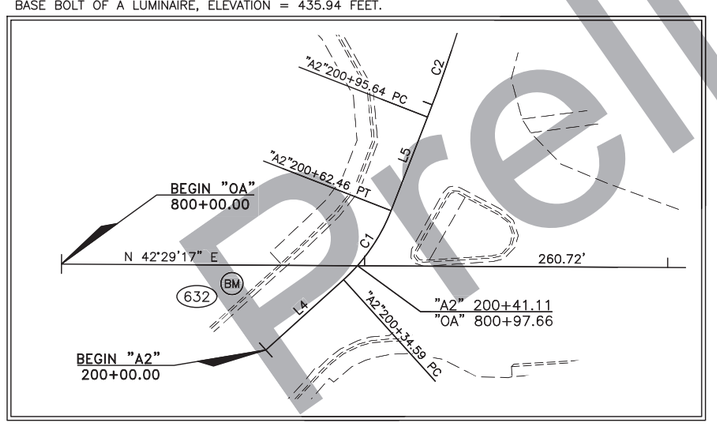
THE VERTICAL DATUM IS NAVD88 (GEOID 12B). THE BASIS OF ELEVATIONS FOR THIS PROJECT ARE TWO, SIX HOUR GPS OBSERVATIONS WHICH WERE PROCESSED AND ADJUSTED USING NGS OPUS PROJECTS AS SHOWN ON THE RECORD OF SURVEY, PRE-CONSTRUCTION CONTROL DIAGRAM OF: AIRPORT WAY PREVENTATIVE MAINTENANCE – STAGE II, PSA NO. 025-4-1-003 / AKSAS 63278, RECORDED AS PLAT NO. 2014-128 IN THE FAIRBANKS RECORDING DISTRICT.

PROJECT ELEVATIONS WERE ESTABLISHED BY DIFFERENTIAL LEVEL LOOPS, PERFORMED BY R&M CONSULTANTS, INC. USING A LEICA DNA10 DIGITAL LEVEL, THROUGH ALL PROJECT CONTROL POINTS AND WERE BASED ON THE FOLLOWING TEMPORARY BENCHMARKS (PLAT NO. 2014-128): POINT NO. 601, A "X" FILED ON THE SOUTHMOST BASE BOLT OF A LUMINAIRE, ELEVATION = 435.19 FEET, AND POINT NO. 602, A "X" FILED ON THE NORTHEAST BASE BOLT OF A LUMINAIRE, ELEVATION = 435.94 FEET.

LEGEND

- FOUND MONUMENT IN CASE
- FOUND PRIMARY MONUMENT
- FOUND REBAR WITH 2" DOT&PF ALCAP
- SET REBAR WITH 2" R&M ALCAP
- FOUND IRON PIPE
- (BM) TEMPORARY BENCHMARK





DETAIL
1" = 25'

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

DATE: _____ LS-12042
REGISTRATION NUMBER

CHAD A. WEILER, PLS
R&M CONSULTANTS, INC.
CERT. OF AUTHORIZATION AECC 111
9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
(907) 522-1707

TYPICAL SET/FOUND CONTROL POINTS

R&M CONSULTANTS INC APTWAY ### LS 11797 2016
TYPICAL SET R&M CONTROL POINT

STATE OF ALASKA APTWAY S-8689 DOT/PF 2005
TYPICAL FOUND DOT&PF CONTROL POINT

0 150 300 450 600 750
SCALE 1"=150'

SURVEY CONTROL SHEET

STATE OF ALASKA
REVIEW PS&E
NOV 2020
LS 12042
Registered Professional Land Surveyor

CURVE TABLE – SHEET A3					
NO.	DELTA	DEGREE OF CURVE	TANGENT	LENGTH	RADIUS
C1	26°37'07"	95°29'35"	14.19'	27.87'	60.00'
C2	20°22'13"	12°43'57"	80.85'	159.99'	450.00'
C3	3°36'17"	5°43'46"	31.47'	62.91'	1000.00'
C4	21°33'53"	9°42'40"	112.36'	222.06'	590.00'

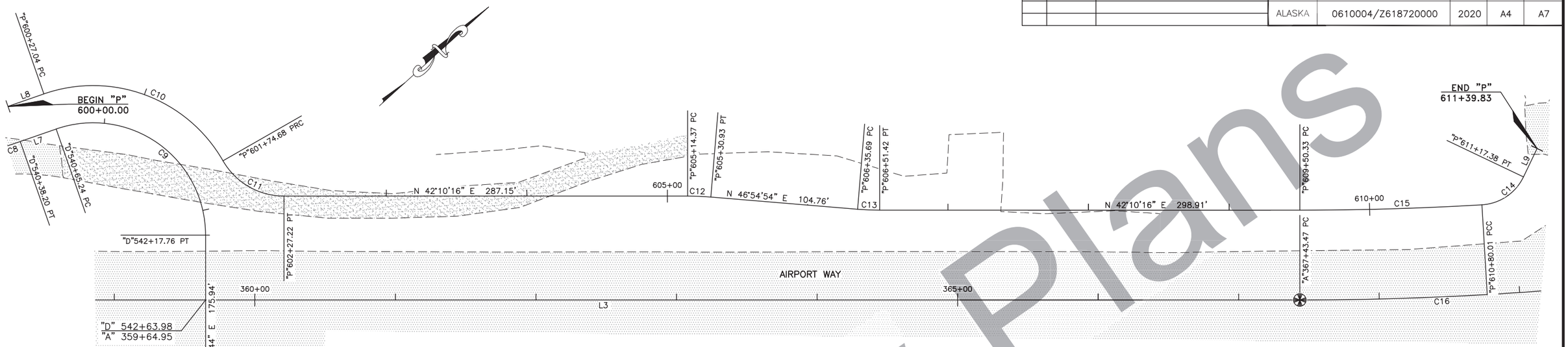
LINE TABLE – SHEET A3		
NO.	BEARING	DISTANCE
L1	N 19°07'58" W	57.66'
L2	N 42°10'16" E	1363.76'
L3	N 42°10'16" E	2535.74'
L4	N 0°04'08" E	34.59'
L5	N 26°32'59" W	33.17'
L13	N 40°27'08" E	499.95'

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Survey\ACAD\Survey Control Sheet\61872_SV Airport Way West SCS-Sheet A3 Thu, Nov/05/20 01:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	A4	A7



NOTES

1. SEE SHEET A5 FOR ALIGNMENT TABLES.
2. SEE SHEET A7 FOR POINT TABLES FOR THIS SHEET.
3. SEE SHEET A5 FOR LINE AND CURVE DATA FOR THIS SHEET.

DETAIL ALIGNMENT "P"

0 35 70 105 140 175
SCALE 1"=35'

LEGEND

- FOUND MONUMENT IN CASE
- FOUND PRIMARY MONUMENT
- FOUND REBAR WITH 2" DOT&PF ALCAP
- SET REBAR WITH 2" R&M ALCAP
- BM TEMPORARY BENCHMARK

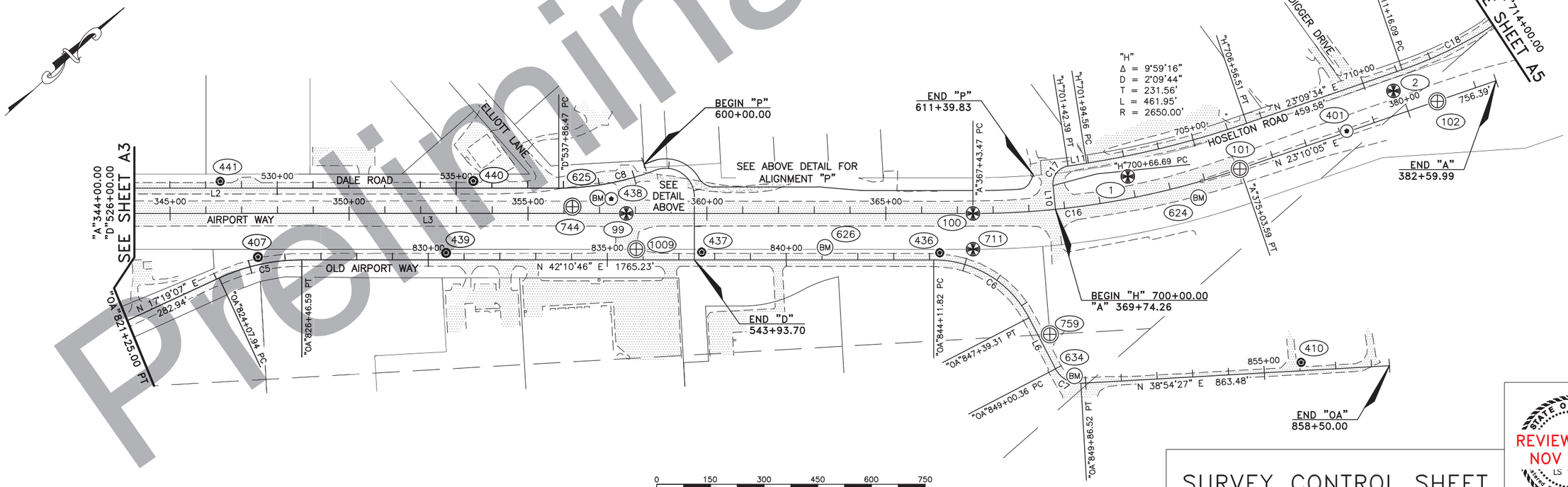
TYPICAL SET/FOUND CONTROL POINTS



TYPICAL SET R&M CONTROL POINT



TYPICAL FOUND DOT&PF CONTROL POINT



0 150 300 450 600 750
SCALE 1"=150'

SURVEY CONTROL SHEET

STATE OF ALASKA
REVIEW PS&E
NOV 2020
LS 12042
Registered Professional Land Surveyor

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Survey\ACAD\Survey Control Sheet\61872_SV Airport Way West SCS-Sheet A4 Thu, Nov/05/20 01:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	A5	A7

CURVE TABLE – SHEET A5					
NO.	DELTA	DEGREE OF CURVE	TANGENT	LENGTH	RADIUS
C18	22°20'39"	4°58'56"	227.13'	448.48'	1150.00'
C19	1°18'52"	1°08'45"	57.36'	114.71'	5000.00'
C20	125°16'51"	22°55'06"	483.13'	546.64'	250.00'

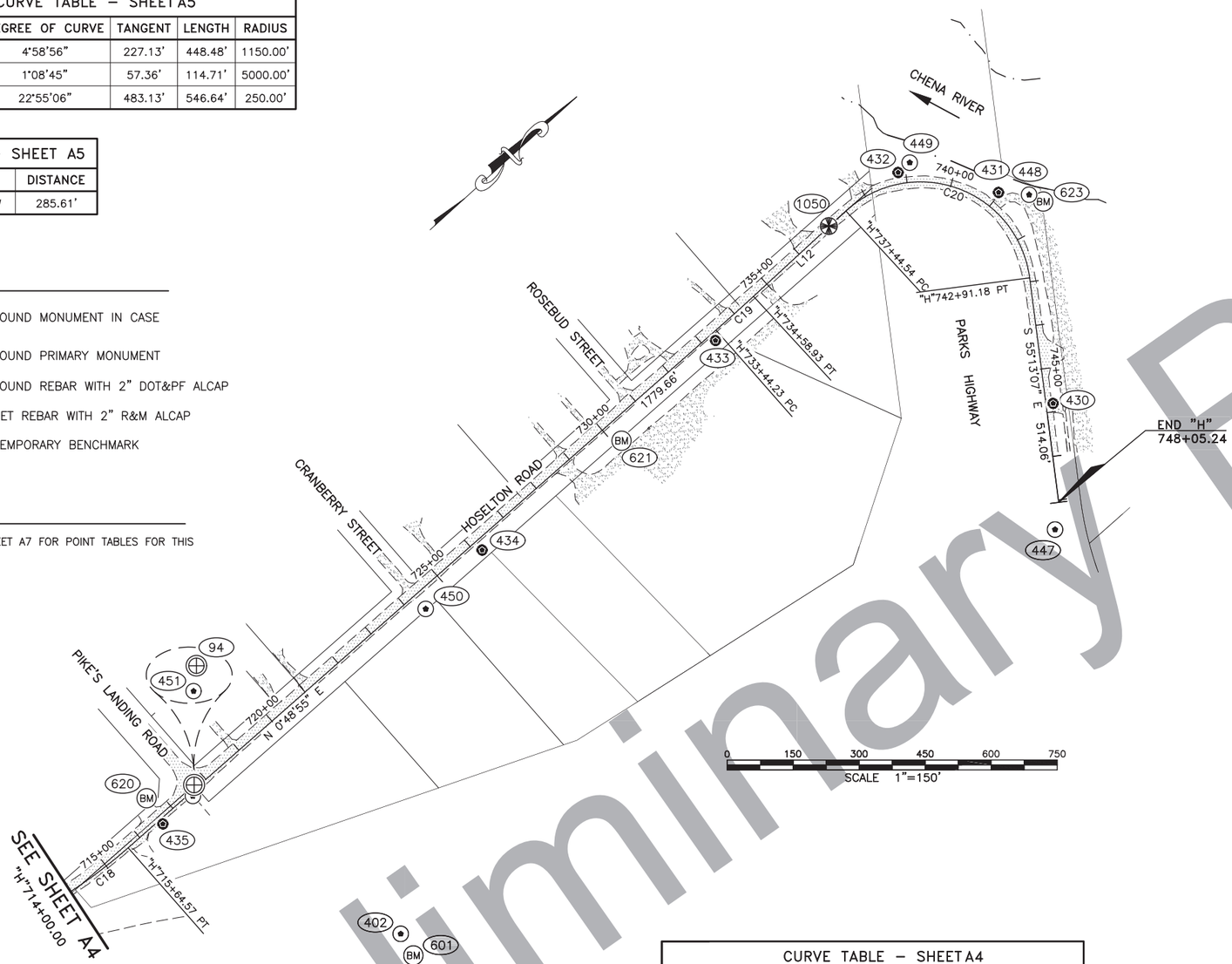
LINE TABLE – SHEET A5		
NO.	BEARING	DISTANCE
L12	N 0°29'57" W	285.61'

LEGEND

- FOUND MONUMENT IN CASE
- FOUND PRIMARY MONUMENT
- FOUND REBAR WITH 2" DOT&PF ALCAP
- SET REBAR WITH 2" R&M ALCAP
- TEMPORARY BENCHMARK

NOTES

1. SEE SHEET A7 FOR POINT TABLES FOR THIS SHEET.



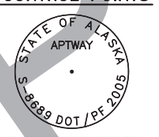
LINE TABLE – SHEET A4		
NO.	BEARING	DISTANCE
L2	N 42°10'16" E	1363.76'
L3	N 42°10'16" E	2535.74'
L6	S 75°16'26" E	161.05'
L7	N 22°56'24" E	27.04'
L8	N 22°56'24" E	27.04'
L9	N 22°20'25" W	22.45'
L10	N 53°35'55" W	66.69'
L11	N 33°08'51" E	52.17'

CURVE TABLE – SHEET A4					
NO.	DELTA	DEGREE OF CURVE	TANGENT	LENGTH	RADIUS
C5	24°51'39"	10°25'03"	121.23'	238.65'	550.00'
C6	62°32'48"	19°05'55"	182.21'	327.49'	300.00'
C7	65°49'07"	76°23'40"	48.54'	86.16'	75.00'
C8	19°13'51"	7°38'22"	127.06'	251.73'	750.00'
C9	109°13'51"	71°37'11"	112.64'	152.52'	80.00'
C10	79°25'49"	53°47'56"	88.47'	147.64'	106.50'
C11	60°11'57"	114°35'30"	28.98'	52.53'	50.00'
C12	4°44'38"	28°38'52"	8.28'	16.56'	200.00'
C13	4°44'38"	30°09'20"	7.87'	15.73'	190.00'
C14	61°10'35"	163°42'08"	20.69'	37.37'	35.00'
C15	3°20'06"	2°34'19"	64.86'	129.68'	2227.83'
C16	19°00'11"	2°30'00"	383.58'	760.12'	2291.83'
C17	86°44'45"	114°35'30"	47.24'	75.70'	50.00'
C18	22°20'39"	4°58'56"	227.13'	448.48'	1150.00'

TYPICAL SET/FOUND CONTROL POINTS



TYPICAL SET R&M CONTROL POINT



TYPICAL FOUND DOT&PF CONTROL POINT

ALIGNMENT TABLES

ALIGNMENT "OA"			
	STATION	NORTHING	EASTING
BOP	800+00.00	189972.6013	654907.5552
PC	802+60.72	190164.8632	655083.6565
PT	803+23.64	190212.5619	655124.6631
PC	819+02.94	191441.9311	656116.0488
PT	821+25.00	191636.6610	656220.0292
PC	824+07.94	191906.7748	656304.2569
PT	826+46.59	192112.3477	656421.7470
PC	844+11.82	193420.4655	657607.0216
PT	847+39.31	193509.1745	657905.5952
PC	849+00.36	193468.2354	658061.3555
PT	849+86.52	193493.6668	658138.7825
EOP	858+50.00	194165.5924	658681.1058

ALIGNMENT "A"			
	STATION	NORTHING	EASTING
BOP	307+00.00	189855.0905	653544.6168
PC	307+57.66	189909.5691	653525.7171
PT	316+73.86	190769.9290	653687.6579
PC	321+73.81	191150.3622	654012.0306
PT	328+00.26	191401.8454	654564.1241
PC	334+01.11	191395.8844	655164.9403
PT	342+07.73	191709.6785	655882.1544
PC	367+43.47	193589.0278	657584.5152
PT	375+03.59	194225.9661	657992.9446
EOP	382+59.99	194921.3605	658290.5324

ALIGNMENT "A1"			
	STATION	NORTHING	EASTING
BOP	100+00.00	189924.4015	653713.1824
PC	102+58.00	190158.5125	653604.7476
PT	109+11.10	190771.1055	653688.6610
EOP	110+11.10	190847.2002	653753.5424

ALIGNMENT "A2"			
	STATION	NORTHING	EASTING
BOP	200+00.00	190003.5174	654973.8229
PC	200+34.59	190038.1052	654973.8645
PT	200+62.46	190064.9958	654967.5373
PC	200+95.64	190094.6712	654952.7094
PT	202+55.62	190222.2124	654857.5221
EOP	215+50.00	191106.2953	653912.1080

ALIGNMENT "H"			
	STATION	NORTHING	EASTING
BOP	700+00.00	193767.5776	657730.5850
PC	700+66.69	193807.1563	657676.9046
PT	701+42.39	193874.7399	657664.7132
PC	701+94.56	193918.4160	657693.2368
PT	706+56.51	194325.1982	657910.9259
PC	711+16.09	194747.7389	658091.6734
PT	715+64.57	195183.6628	658184.2312
PC	733+44.23	196963.1418	658209.5511
PT	734+58.93	197077.8445	658209.8674
PC	737+44.54	197363.4462	658207.3788
PT	742+91.18	197570.9578	658599.9814
EOP	748+05.24	197277.7141	659022.1948

ALIGNMENT "P"			
	STATION	NORTHING	EASTING
BOP	600+00.00	193000.3784	656865.2756
PC	600+27.04	193025.2808	656875.8153
PRC	601+74.68	193087.7979	656996.7080
PT	602+27.22	193103.0697	657044.4767
PC	605+14.37	193315.8919	657237.2563
PT	605+30.93	193327.6911	657248.8687
PC	606+35.69	193399.2493	657325.3779
PT	606+51.42	193410.4585	657336.4097
PC	609+50.33	193631.9940	657537.0820
PCC	610+80.01	193730.5834	657621.2957
PT	611+17.38	193765.8353	657626.4057
EOP	611+39.83	193786.6036	657617.8709

ALIGNMENT "D"			
	STATION	NORTHING	EASTING
BOP	500+00.00	191504.5164	653499.3228
PI	504+60.00	191497.4284	653959.2682
PC	516+73.15	191478.5343	655172.2751
PT	524+22.71	191768.1258	655839.2995
PC	537+86.47	192778.8661	656754.8529
PT	540+38.20	192990.0495	656889.6798
PC	540+65.24	193014.9519	656900.2195
PT	542+17.76	193043.0619	657027.6002
EOP	543+93.70	192924.9452	657157.9972

ALIGNMENT "A3"			
	STATION	NORTHING	EASTING
BOP	400+00.00	190368.9127	654700.6448
PC	401+00.00	190437.2146	654627.6047
PT	414+15.00	191385.4475	655007.3355
EOP	415+15.00	191384.4553	655107.3305

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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SURVEY CONTROL SHEET

STATE OF ALASKA
REVIEW PS&E
NOV 2020
LS 12042
Registered Professional Land Surveyor

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	A6	A7

HORIZONTAL CONTROL – SHEET A3

POINT	ALIGNMENT "A" STATION	ALIGNMENT "A" OFFSET	NORTHING	EASTING	DESCRIPTION
734	307+44.17	137.31 Lt	189851.8166	653400.4141	FOUND 3/4" IRON PIPE
412	310+90.19	36.08 Lt	190238.2158	653441.8353	SET 2" ALCAP ON REBAR
730	316+12.62	35.77 Lt	190743.2478	653620.8050	FOUND 3/4" IRON PIPE
729	316+74.37	0.01 Rt	190770.3065	653687.9957	FOUND 2–1/2" BRASS CAP
732	317+13.81	24.87 Lt	190816.4571	653694.6528	FOUND 2–1/2" BRASS CAP
411	320+21.43	86.63 Lt	191090.6133	653847.2416	SET 2" ALCAP ON REBAR
727	320+61.10	0.05 Lt	191064.6299	653938.8672	FOUND 2–1/2" BRASS CAP
728	320+73.27	0.01 Lt	191073.8596	653946.7939	FOUND 2–1/2" BRASS CAP
95	321+72.89	0.04 Rt	191149.6376	654011.4688	FOUND 2–1/2" BRASS CAP
446	325+53.20	94.34 Lt	191451.1492	654290.5026	SET 2" ALCAP ON REBAR
96	328+00.68	0.00 Rt	191401.8412	654564.5444	FOUND 2–1/2" BRASS CAP
445	330+19.32	39.40 Lt	191439.0698	654783.5576	SET 2" ALCAP ON REBAR
97	334+01.30	0.00 Rt	191395.8825	655165.1280	FOUND 2–1/2" BRASS CAP
1012*	337+31.05	26.07 Lt	191473.7262	655480.3102	3" ALUM CAP
98	342+07.43	0.00 Rt	191709.4570	655881.9530	FOUND 2–1/2" BRASS CAP
442	342+94.78	35.54 Lt	191798.0519	655914.2491	FOUND 2" ALCAP ON REBAR

* SURVEYED BY ADOT IN 2005–2009 AND TRANSLATED TO TODAY'S PROJECT DATUM IN 2017. REFERENCE RECORD OF SURVEY PLATS 2006–144 & 2017–38, F.R.D.

HORIZONTAL CONTROL – SHEET A3

POINT	ALIGNMENT "A1" STATION	ALIGNMENT "A1" OFFSET	NORTHING	EASTING	DESCRIPTION
733	102+56.60	0.00 Rt	190157.2410	653605.3365	FOUND 2–1/2" BRASS CAP
729	109+09.55	0.00 Rt	190770.3065	653687.9957	FOUND 2–1/2" BRASS CAP
732	109+49.50	24.87 Lt	190816.4571	653694.6528	FOUND 2–1/2" BRASS CAP

HORIZONTAL CONTROL – SHEET A3

POINT	ALIGNMENT "D" STATION	ALIGNMENT "D" OFFSET	NORTHING	EASTING	DESCRIPTION
723	500+00.00	0.00 Rt	191504.5164	653499.3228	FOUND 2–1/2" BRASS CAP
725	500+00.28	70.40 Rt	191434.1172	653498.5176	FOUND 2–1/2" BRASS CAP
726	500+82.54	215.32 Rt	191287.9507	653578.5350	FOUND 2–1/2" BRASS CAP
714	506+60.38	0.03 Lt	191494.3408	654159.6288	FOUND 2–1/2" IRON PIPE
446	507+91.92	41.11 Rt	191451.1492	654290.5026	SET 2" ALCAP ON REBAR
445	512+85.10	45.51 Rt	191439.0698	654783.5576	SET 2" ALCAP ON REBAR
444	517+27.83	20.24 Lt	191499.5924	655225.9967	SET 2" ALCAP ON REBAR
443	522+12.66	18.13 Lt	191645.6430	655670.9699	SET 2" ALCAP ON REBAR
98	524+08.97	71.12 Rt	191709.4570	655881.9530	FOUND 2–1/2" BRASS CAP
442	524+95.21	35.46 Rt	191798.0519	655914.2491	FOUND 2" ALCAP ON REBAR

HORIZONTAL CONTROL – SHEET A3

POINT	ALIGNMENT "OA" STATION	ALIGNMENT "OA" OFFSET	NORTHING	EASTING	DESCRIPTION
404	806+57.51	25.71 Rt	190456.3146	655354.2623	SET 2" ALCAP ON REBAR
741	819+34.95	6.57 Rt	191463.5371	656140.7902	FOUND 2–1/2" BRASS CAP
406	820+62.71	21.82 Rt	191569.6319	656218.4146	SET 2" ALCAP ON REBAR

HORIZONTAL CONTROL – SHEET A3

POINT	ALIGNMENT "A2" STATION	ALIGNMENT "A2" OFFSET	NORTHING	EASTING	DESCRIPTION
403	201+47.27	41.99 Rt	190162.3795	654962.1972	SET 2" ALCAP ON REBAR
735	205+69.75	0.00 Rt	190436.7653	654628.0851	FOUND 2–1/2" BRASS CAP
413	208+81.86	13.48 Rt	190659.7949	654409.3243	SET 2" ALCAP ON REBAR

VERTICAL CONTROL – SHEET A3

POINT	ALIGNMENT "A" STATION	ALIGNMENT "A" OFFSET	ALIGNMENT "D" STATION	ALIGNMENT "D" OFFSET	ALIGNMENT "OA" STATION	ALIGNMENT "OA" OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
631	317+97	43 Lt	--	--	--	--	190891	653735	436.63	FILED "X" IN SOUTHERLY MOST BOLT AT BASE OF TRAFFIC SIGNAL
628	--	--	512+95	127 Lt	--	--	191612	654797	433.67	FILED "X" IN TOP SOUTHERLY MOST FLANGE BOLT ON FIRE HYDRANT
627	--	--	524+17	35 Lt	--	--	191788	655809	434.77	FILED "X" IN TOP WESTERN MOST FLANGE BOLT ON FIRE HYDRANT
633	--	--	--	--	819+14	25 Lt	191466	656103	434.38	FILED "X" IN SOUTHERLY MOST BOLT AT BASE OF LUMINAIRE

Preliminary Plans

SURVEY CONTROL SHEET

STATE OF ALASKA
REVIEW PS&E
NOV 2020
LS 12042
Licensed Professional Land Surveyor

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	A7	A7

HORIZONTAL CONTROL – SHEET A4

POINT	ALIGNMENT "A"		ALIGNMENT "D"		ALIGNMENT "OA"		NORTHING	EASTING	DESCRIPTION
	STATION	OFFSET	STATION	OFFSET	STATION	OFFSET			
441	346+40.15	90.04 Lt	528+40.58	19.04 Lt	--	--	192090.6090	656105.7188	SET 2" ALCAP ON REBAR
407	--	--	--	--	825+27.59	21.32 Lt	192026.8342	656333.4656	SET 2" ALCAP ON REBAR
439	--	--	--	--	830+49.47	19.73 Lt	192424.1491	656677.6420	SET 2" ALCAP ON REBAR
440	--	--	535+47.79	19.93 Lt	--	--	192615.3539	656579.8421	SET 2" ALCAP ON REBAR
744	356+24.29	18.92 Lt	--	--	--	--	192772.2529	656819.1268	FOUND 3-1/4" BRASS CAP
438	357+32.94	40.72 Lt	--	--	--	--	192867.4105	656875.9152	FOUND 2" ALCAP ON REBAR
99	357+74.95	0.00 Rt	--	--	--	--	192871.2128	656934.3025	FOUND 2-1/2" BRASS CAP
1009	--	--	--	--	--		192824.6303	657027.0796	FOUND 2-1/2" BRASS CAP
437	--	--	--	--	837+63.75	21.74 Lt	192954.8133	657155.7573	SET 2" ALCAP ON REBAR
436	--	--	--	--	844+27.70	20.51 Lt	193446.5017	657603.5399	SET 2" ALCAP ON REBAR
100	367+43.49	0.00 Rt	--	--	--	--	193589.0370	657584.5224	FOUND 2-1/2" BRASS CAP
711	--	--	--	--	845+08.42	47.71 Lt	193522.0481	657658.7958	FOUND 3-1/4" ALUM CAP
759	--	--	--	--	848+07.42	30.37 Lt	193521.2380	657979.1852	FOUND 2-1/2" BRASS CAP
410	--	--	--	--	856+04.22	23.39 Lt	193989.0278	658508.5409	SET 2" ALCAP ON REBAR
1	371+90.88	61.12 Lt	--	--	--	--	193979.2073	657798.3159	FOUND 3-1/4" ALUM CAP
101	375+02.90	0.00 Rt	--	--	--	--	194225.3267	657992.6710	FOUND 2-1/2" BRASS CAP
401	378+19.78	2.64 Lt	--	--	--	--	194517.6905	658114.9148	FOUND 2" ALCAP ON REBAR
2	379+79.91	66.36 Lt	--	--	--	--	194689.9812	658119.3327	FOUND 3-1/4" ALUM CAP
102	380+86.03	1.18 Rt	--	--	--	--	194760.9705	658223.1832	FOUND 2-1/2" BRASS CAP

VERTICAL CONTROL – SHEET A4

POINT	ALIGNMENT "A"		ALIGNMENT "D"		ALIGNMENT "OA"		NORTHING	EASTING	ELEVATION	DESCRIPTION
	STATION	OFFSET	STATION	OFFSET	STATION	OFFSET				
625	356+95	43 Lt	538+91	35 Rt	--	--	192841	656849	434.91	FILED "X" IN SOUTHERLY MOST BOLT AT BASE OF LUMINAIRE
626	363+30	95 Rt	--	--	841+09	35 Lt	193219	657377	431.78	FILED "X" IN TOP NORTHEASTERLY MOST FLANGE BOLT ON FIRE HYDRANT
624	373+70	43 Rt	--	--	--	--	194086	657975	437.09	FILED "X" IN WESTERLY MOST BOLT AT BASE OF LUMINAIRE

HORIZONTAL CONTROL – SHEET A5

POINT	ALIGNMENT "H"		NORTHING	EASTING	DESCRIPTION
	STATION	OFFSET			
435	716+59.73	11.36 Rt	195278.6577	658196.9459	SET 2" ALCAP ON REBAR
451	717+52.89	8.81 Rt	195371.8429	658195.7202	FOUND 2" ALCAP ON REBAR
94	717+71.48	8.03 Lt	195390.6710	658179.1471	FOUND 3-1/2" BRASS CAP
402	719+00.39	555.97 Rt	195511.5401	658744.9180	FOUND 2" ALCAP ON REBAR
450	724+30.68	39.51 Rt	196049.1225	658236.0577	FOUND 2" ALCAP ON REBAR
434	726+15.16	23.86 Rt	196233.8089	658223.0342	SET 2" ALCAP ON REBAR
433	733+27.65	16.83 Rt	196946.3265	658226.1430	SET 2" ALCAP ON REBAR
1050*	736+92.85	1.32 Lt	197311.7468	658206.5097	3" BRASS CAP
432	738+84.35	26.15 Lt	197510.0812	658222.0192	SET 2" ALCAP ON REBAR
449	739+09.91	44.76 Lt	197544.6592	658223.2059	FOUND 2" ALCAP ON REBAR
431	740+97.00	37.26 Lt	197648.7577	658408.8577	SET 2" ALCAP ON REBAR
448	741+40.95	81.17 Lt	197696.7864	658459.3899	FOUND 2" ALCAP ON REBAR
430	745+80.90	16.17 Lt	197418.9754	658847.1593	SET 2" ALCAP ON REBAR

* SURVEYED BY ADOT IN 2005–2009 AND TRANSLATED TO TODAY'S PROJECT DATUM IN 2017. REFERENCE RECORD OF SURVEY PLATS 2006–144 & 2017–38, F.R.D.

VERTICAL CONTROL – SHEET A5

POINT	ALIGNMENT "H"		NORTHING	EASTING	ELEVATION	DESCRIPTION
	STATION	OFFSET				
620	716+70	57 Lt	195290	658129	433.66	SPRIKE SET IN SOUTH SIDE OF 11" SPRUCE
601	718+90	612 Rt	195500	658800	435.19	FILED "X" IN SOUTHERLY MOST BOLT AT BASE OF LUMINAIRE
621	730+17	47 Rt	196635	658252	432.95	FILED "X" IN TOP NORTHEASTERLY MOST FLANGE BOLT ON FIRE HYDRANT
623	741+65	96 Lt	197710	658492	429.80	FILED "X" ON NORTHWESTERLY MOST CORNER OF FIBER OPTIC VAULT

Preliminary Plans

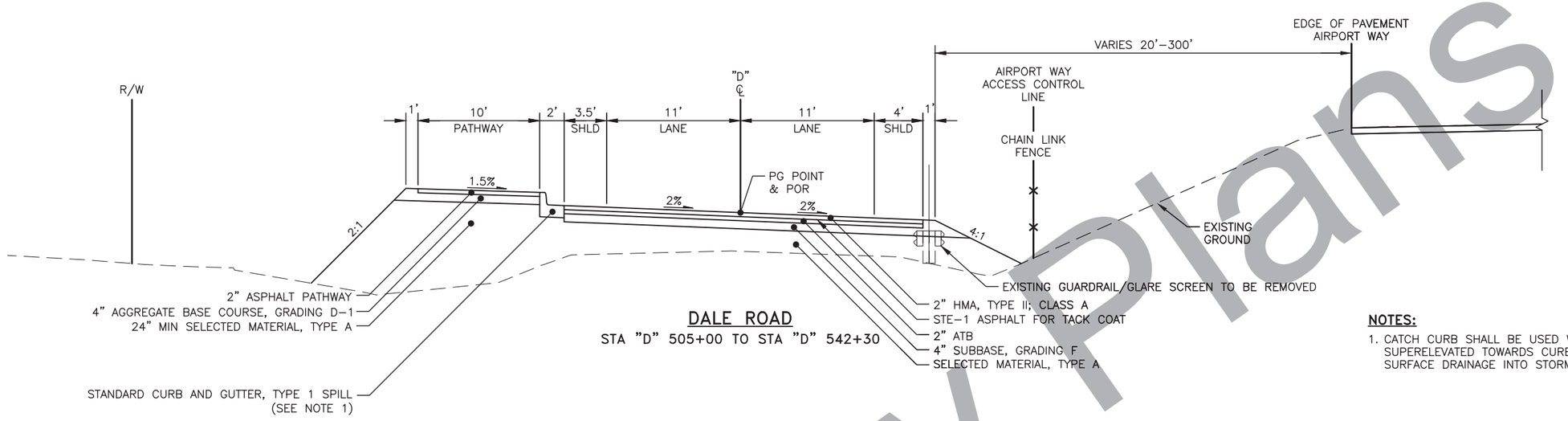
SURVEY CONTROL SHEET

STATE OF ALASKA
REVIEW PS&E
NOV 2020
LS 12042
Licensed Professional Land Surveyor

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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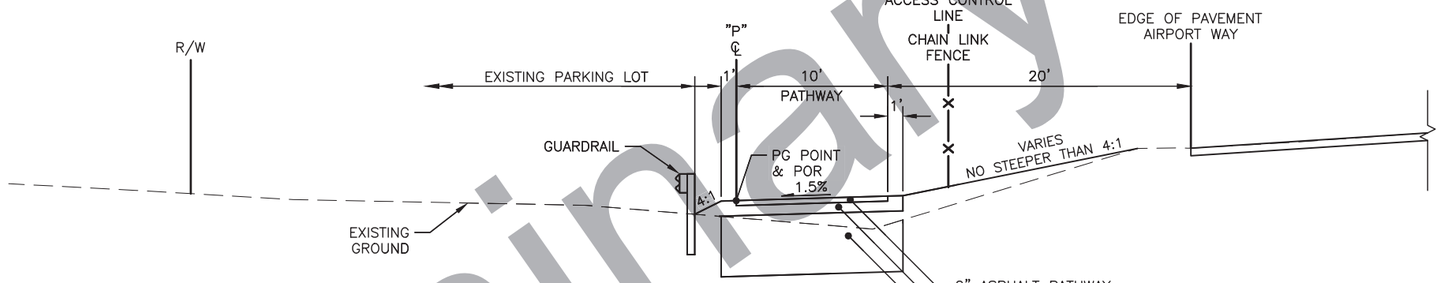


DALE ROAD

STA "D" 505+00 TO STA "D" 542+30

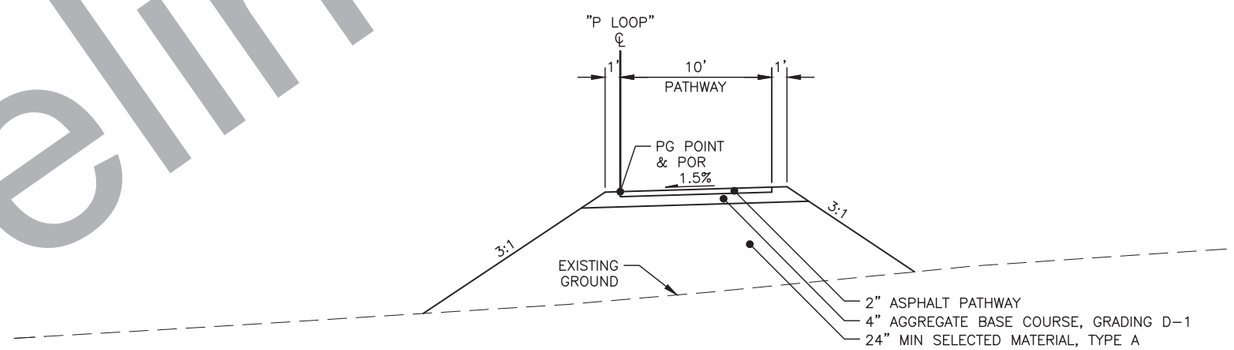
NOTES:

1. CATCH CURB SHALL BE USED WHERE ROAD IS SUPERELEVATED TOWARDS CURB AND GUTTER TO ALLOW SURFACE DRAINAGE INTO STORM DRAIN INLETS.



PATHWAY

STA "P" 601+75 TO STA "P" 611+34



PATHWAY SPUR

STA "P LOOP" 620+19 TO STA "P LOOP" 624+45
STA "H" 716+38 LT

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

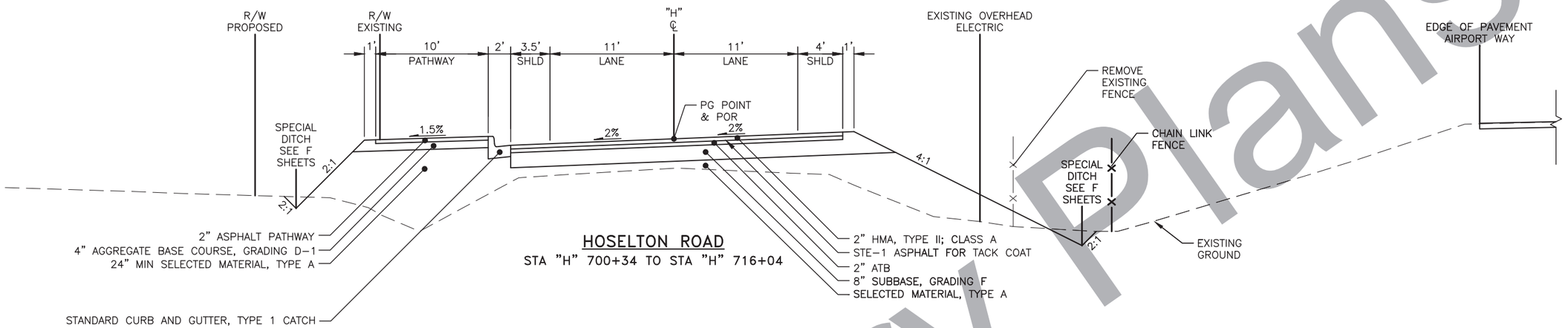
TYPICAL SECTIONS

Preliminary Plans

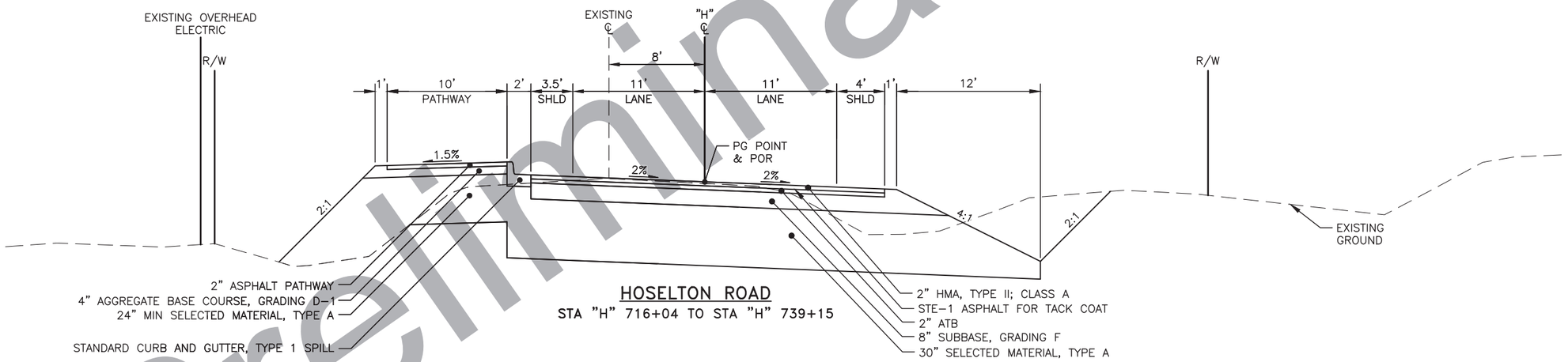
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	B2	B8



HOSELTON ROAD
STA "H" 700+34 TO STA "H" 716+04



HOSELTON ROAD
STA "H" 716+04 TO STA "H" 739+15

Preliminary Plans

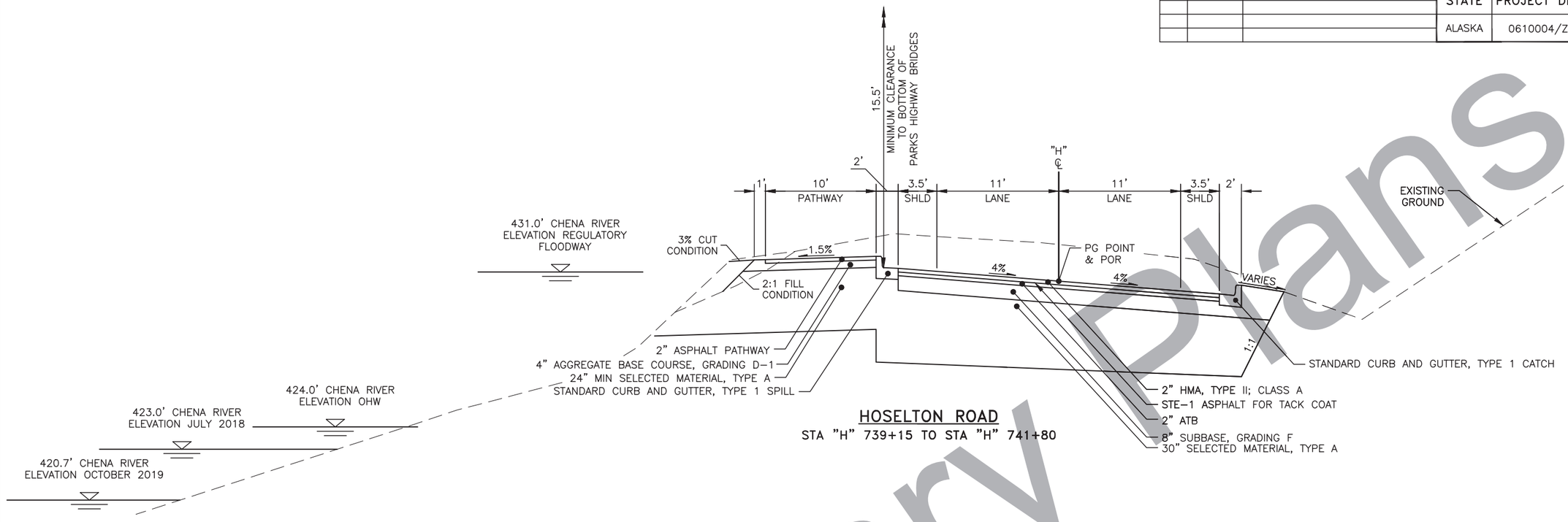
STATE OF ALASKA
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###

TYPICAL SECTIONS

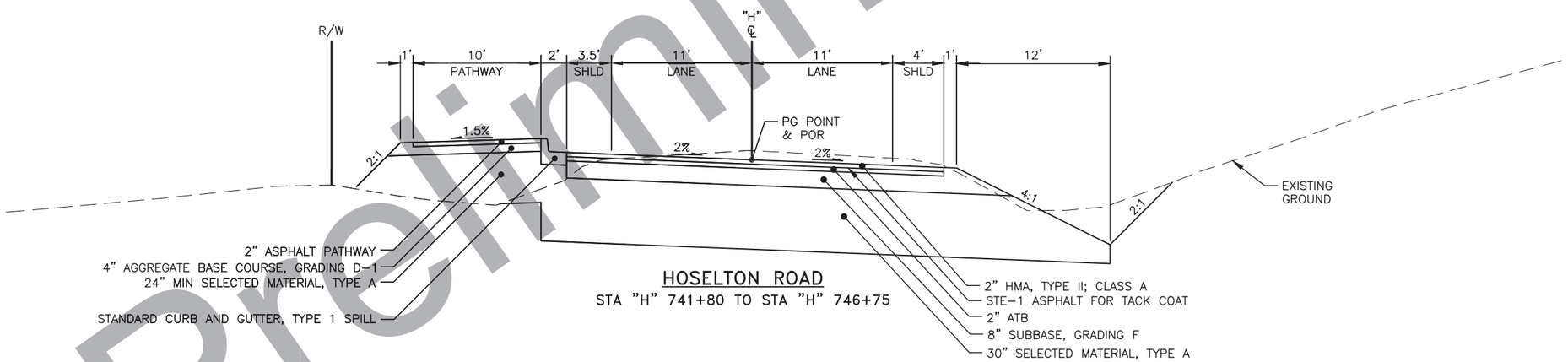
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	B3	B8



HOSELTON ROAD
STA "H" 739+15 TO STA "H" 741+80



HOSELTON ROAD
STA "H" 741+80 TO STA "H" 746+75

TYPICAL SECTIONS

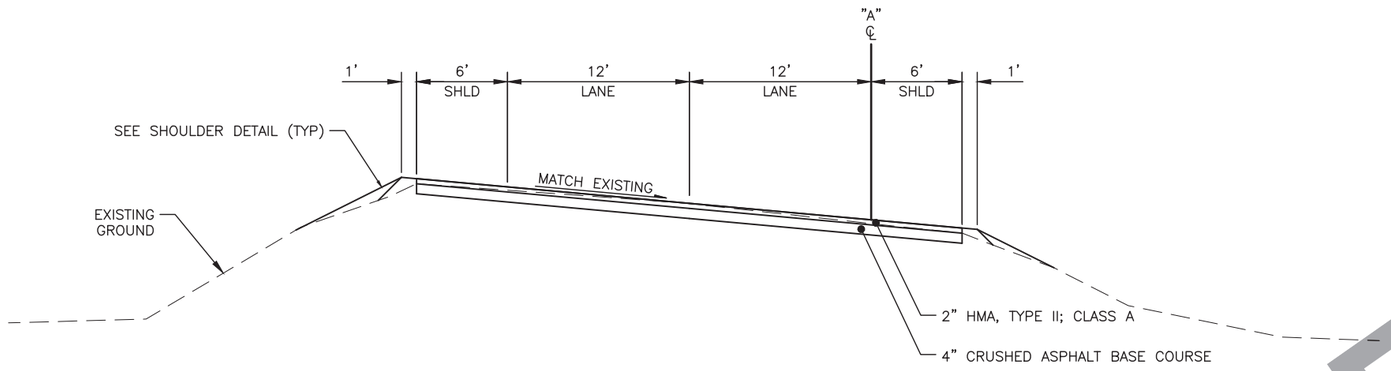
STATE OF ALASKA
REVIEW PS&E
NOV 2020
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Preliminary Plans

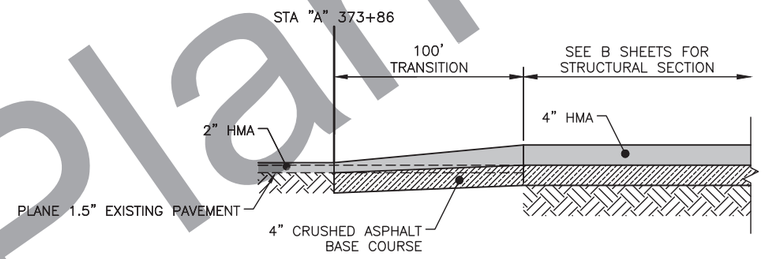
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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NO.	DATE	REVISION

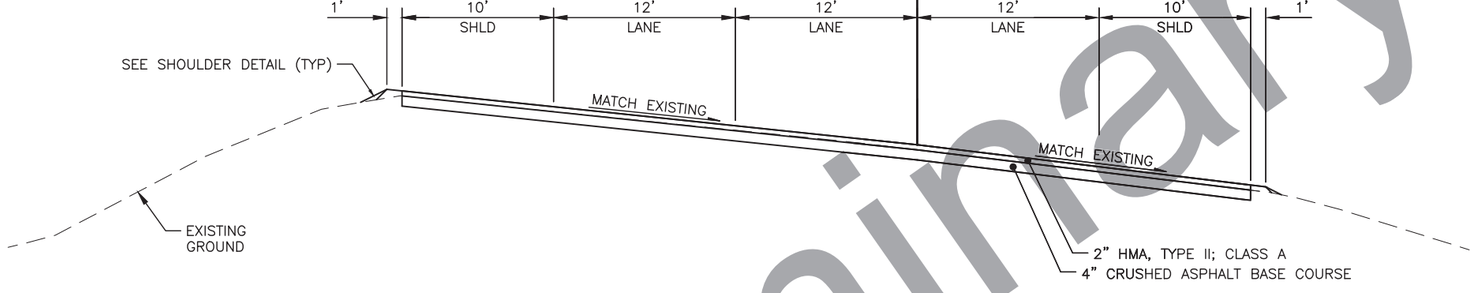
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	B4	B8



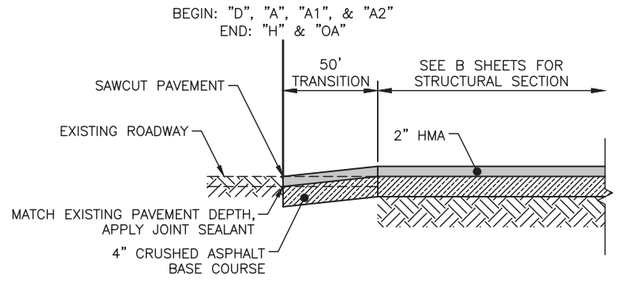
AIRPORT WAY
STA "A" 309+60 TO STA "A" 316+74



PAVEMENT TRANSITION PROFILE
PAVEMENT PLANE TO 4" ROAD GRADE RAISE



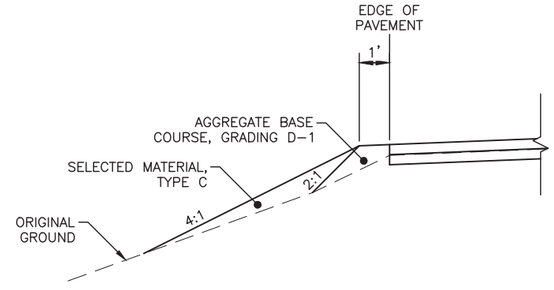
AIRPORT WAY
STA "A" 316+74 TO STA "A" 332+44



PAVEMENT TRANSITION PROFILE
EXISTING ROAD GRADE TO 2" RAISE

EXISTING HMA THICKNESS			
ALIGNMENT	STATION RANGE FROM	STATION RANGE TO	ESTIMATED THICKNESS (IN)
A	309+60	373+86	1.5
A	373+86	375+05	3.5
A1	102+85	109+10	1.5
A2	200+09	214+80	1.5
A3	401+00	414+14	1.5
OA	801+00	857+51	2.5

NOTES:
1. ESTIMATED EXISTING HMA THICKNESSES BASED UPON DOT&PF CORING DATA, TAKEN OCTOBER 14TH 2019.



SHOULDER DETAIL

TYPICAL SECTIONS

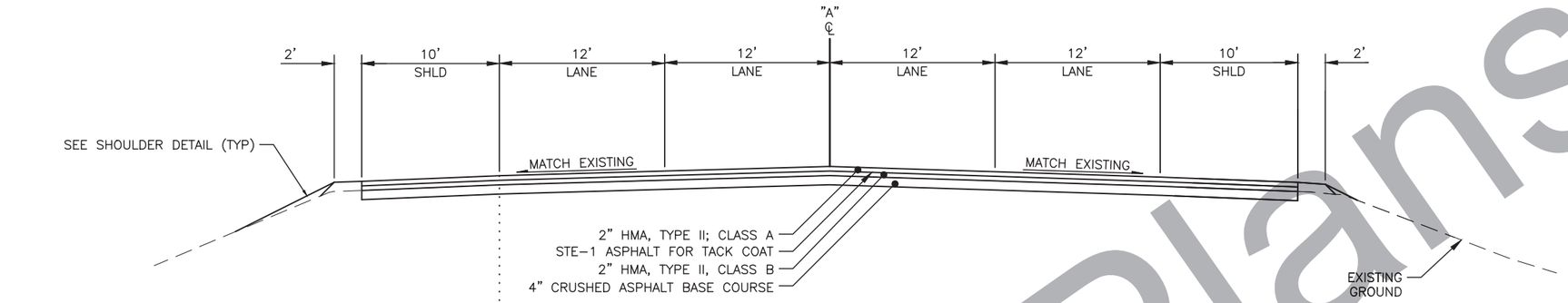
STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-B-Typical Sections-B4 Thu, Nov/05/20 01:45pm

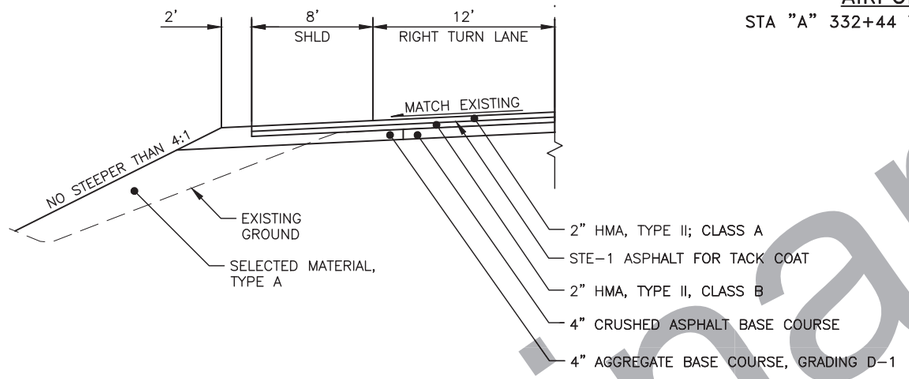
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	B5	B8



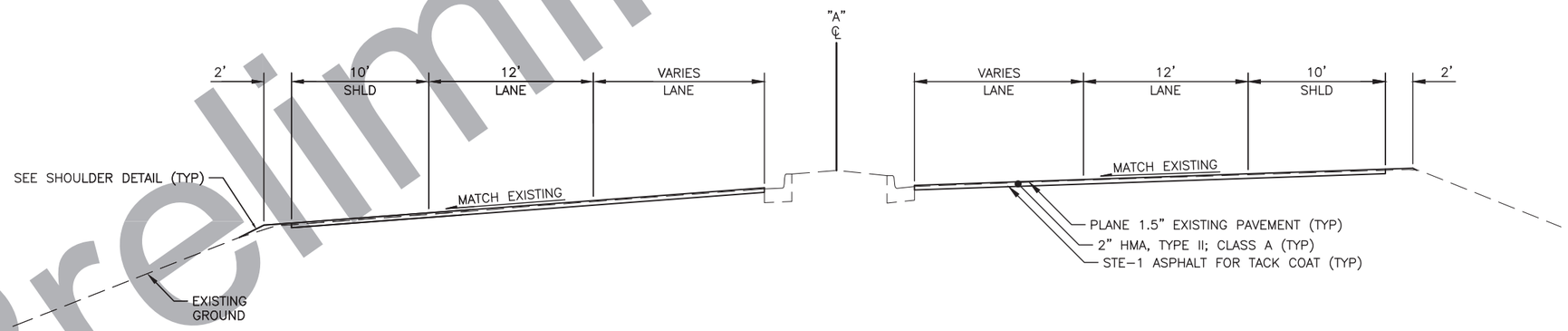
AIRPORT WAY

STA "A" 332+44 TO STA "A" 373+86



AIRPORT WAY RIGHT TURN LANE

STA "A" 360+00 TO STA "A" 364+35



AIRPORT WAY

STA "A" 373+86 TO STA "A" 375+05

Preliminary Plans

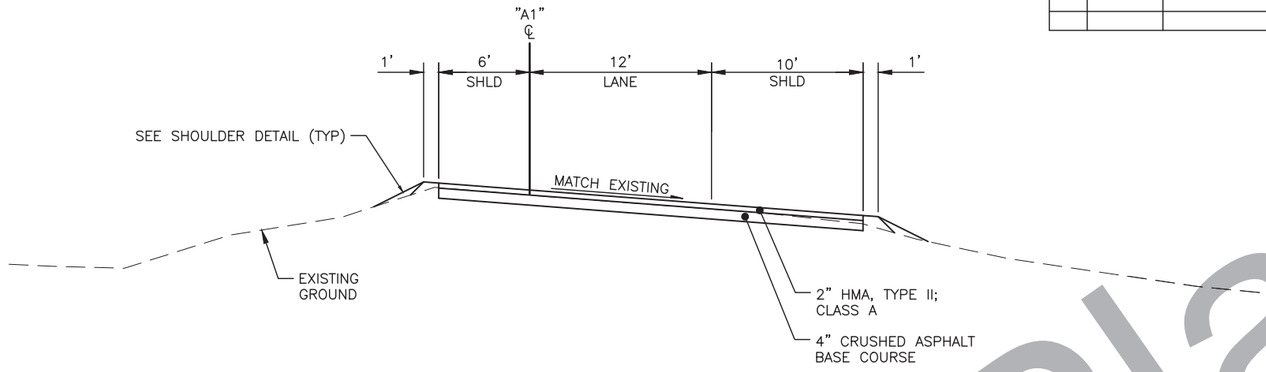
TYPICAL SECTIONS

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-B-Typical Sections-B5 Thu, Nov/05/20 01:46pm

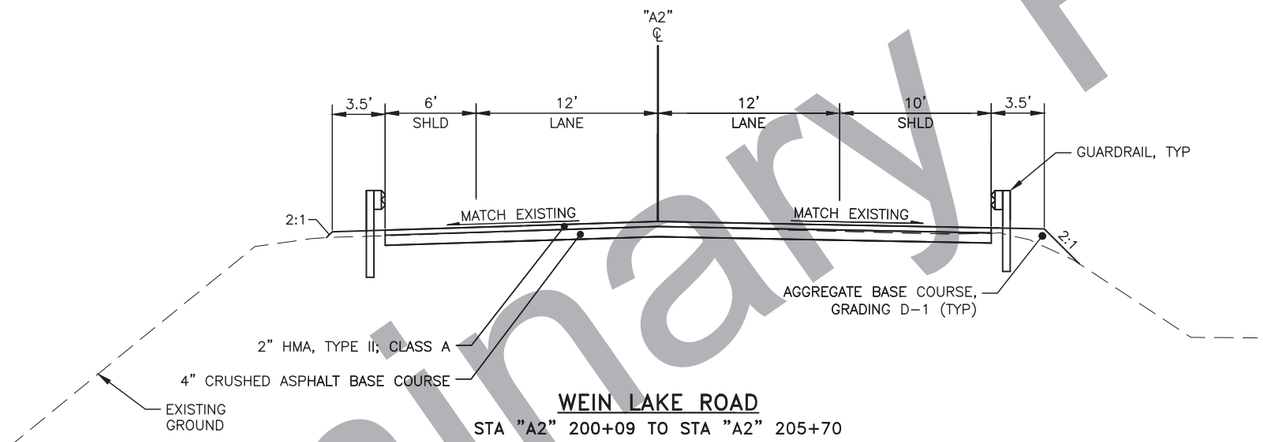
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	B6	B8



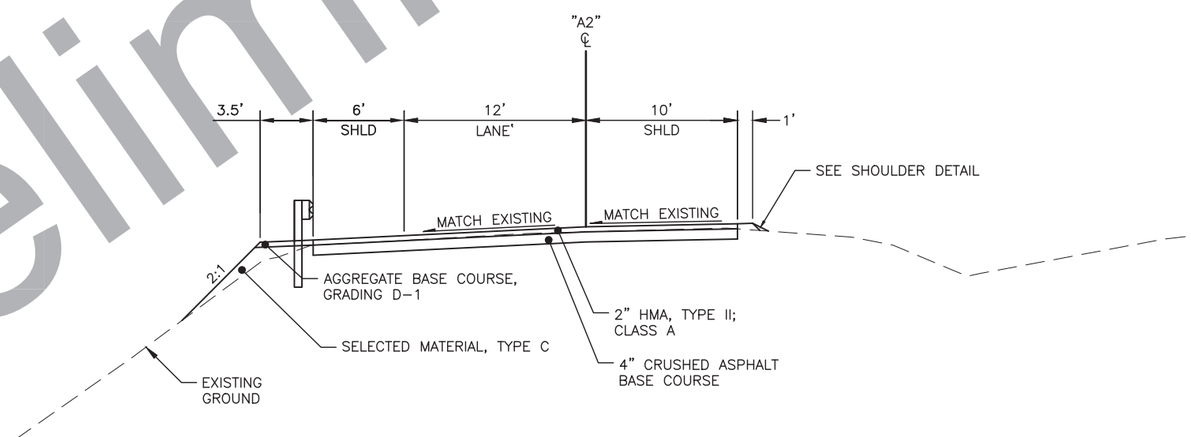
AIRPORT WAY RAMP

STA "A1" 102+85 TO STA "A1" 109+10



WEIN LAKE ROAD

STA "A2" 200+09 TO STA "A2" 205+70



WEIN LAKE ROAD WEST

STA "A2" 205+70 TO STA "A2" 210+40

TYPICAL SECTIONS

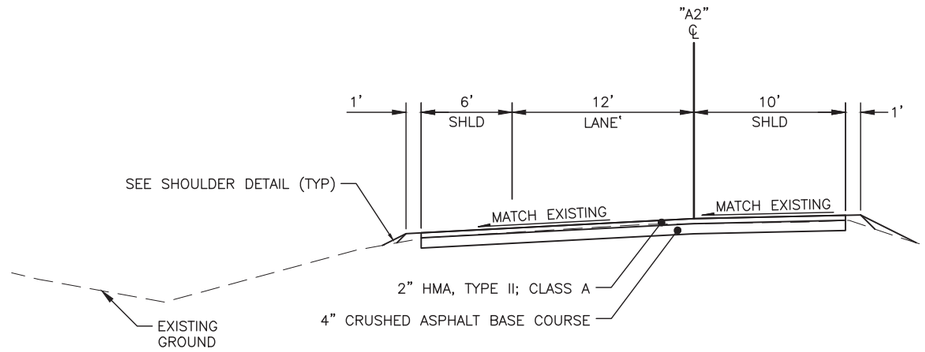
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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-B-Typical Sections-B6 Thu, Nov/05/20 01:46pm

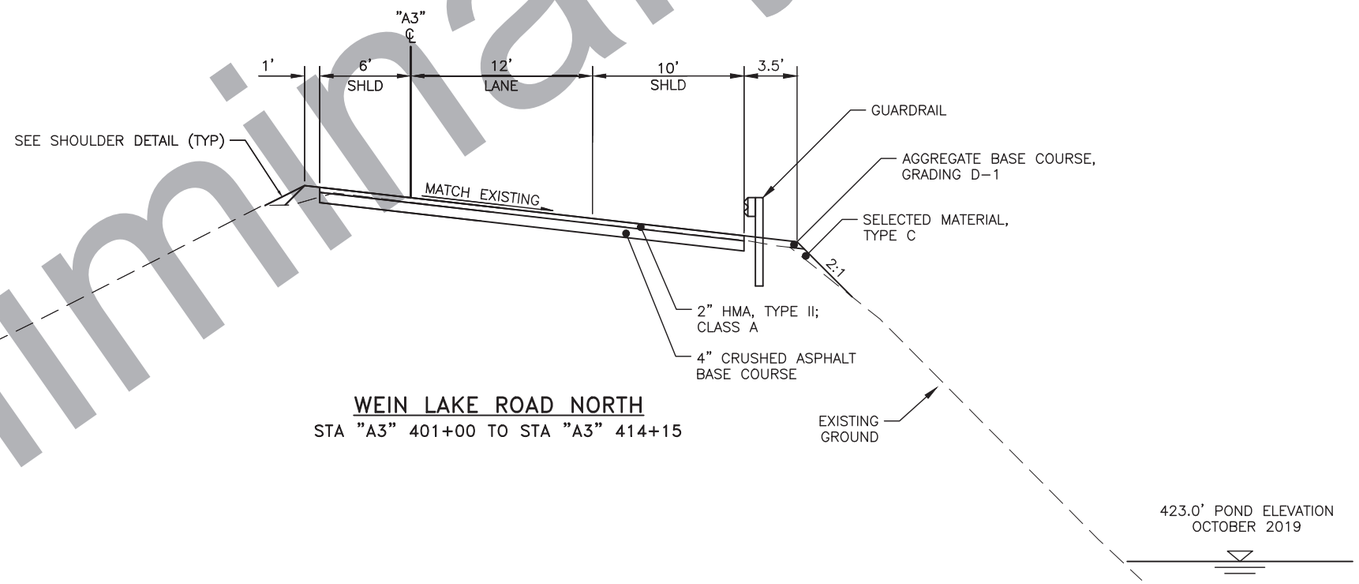
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	B7	B8



WEIN LAKE ROAD WEST

STA "A2" 210+40 TO STA "A2" 214+80



WEIN LAKE ROAD NORTH

STA "A3" 401+00 TO STA "A3" 414+15

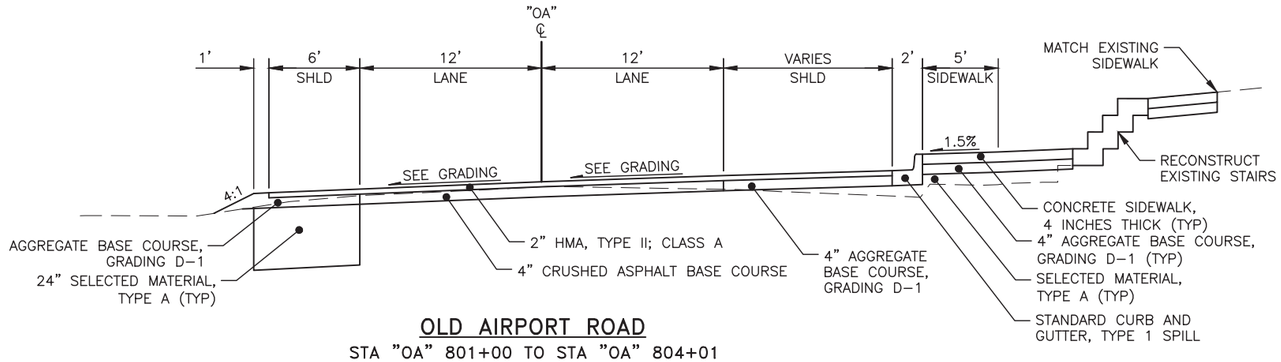
Preliminary Plans

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NOV 2020

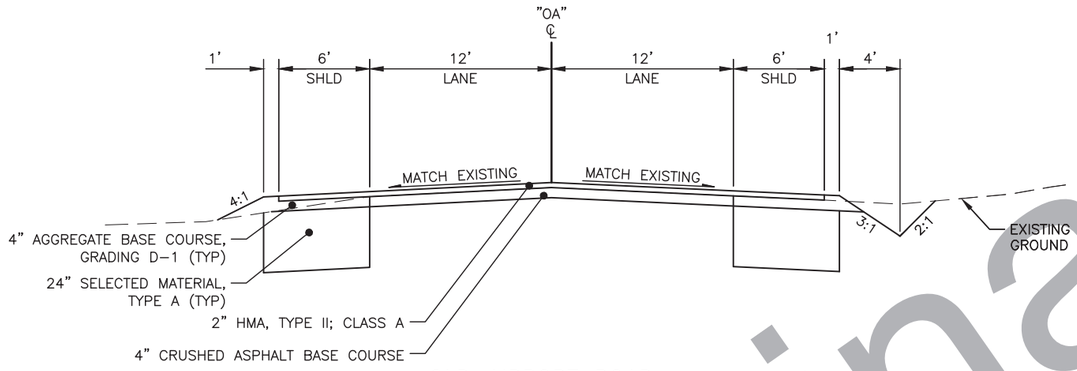
TYPICAL SECTIONS

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-B-Typical Sections-B7 Thu, Nov/05/20 01:46pm

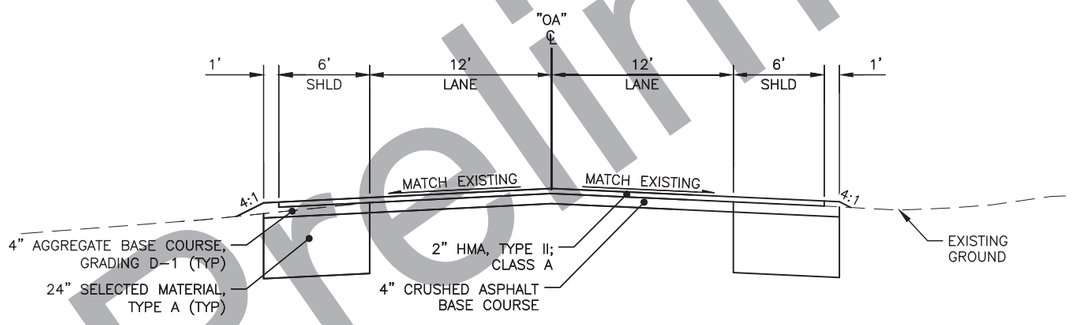
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0610004/Z618720000	2020	B8	B8



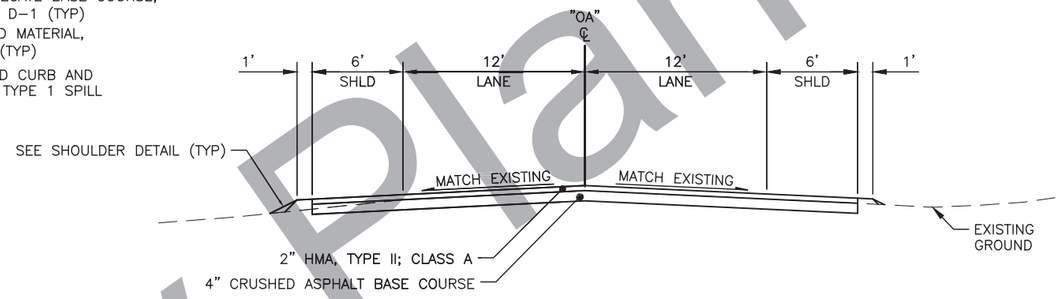
OLD AIRPORT ROAD
STA "OA" 801+00 TO STA "OA" 804+01



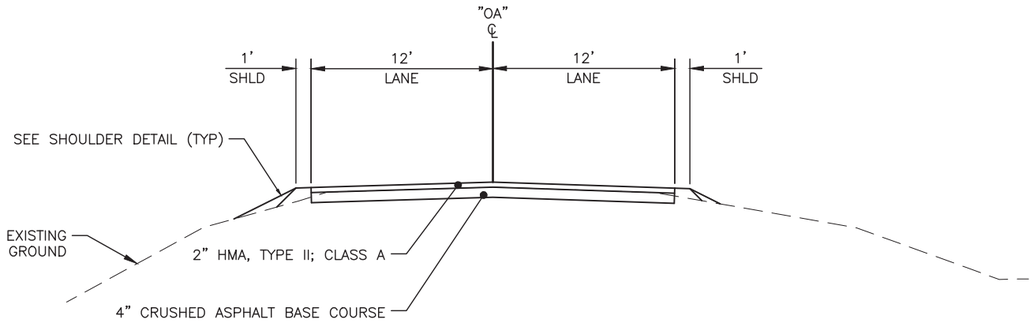
OLD AIRPORT ROAD
STA "OA" 804+01 TO STA "OA" 808+75



OLD AIRPORT ROAD
STA "OA" 808+75 TO STA "OA" 813+44



OLD AIRPORT ROAD
STA "OA" 813+44 TO STA "OA" 849+87



OLD AIRPORT ROAD
STA "OA" 849+87 TO STA "OA" 857+51

TYPICAL SECTIONS

STATE OF ALASKA
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NOV 2020
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Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	C1	C2

ESTIMATE OF QUANTITIES

ITEM NO	DESCRIPTION	PAY UNIT	QUANTITY
201.0009.0000	CLEARING AND GRUBBING	LS	ALL REQ'D
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	ALL REQ'D
202.0002.0000	REMOVAL OF PAVEMENT	SY	36,100
202.0003.0000	REMOVAL OF SIDEWALK	SY	240
202.0004.0000	REMOVAL OF CULVERT PIPE	LF	1,650
202.0009.0000	REMOVAL OF CURB AND GUTTER	LF	320
202.0010.0000	SINGLE MAIL BOX INSTALLATION	EACH	9
202.0011.0000	MULTIPLE MAIL BOX INSTALLATION	EACH	1
202.2022.0000	REMOVAL OF FENCE	LF	470
202.2023.0000	PAVEMENT PLANING	SY	870
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	24,300
203.0006.000A	BORROW, TYPE A	TON	68,000
203.0009.0000	OBLITERATION OF ROADWAY	SY	2,100
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	8,650
304.0001.000F	SUBBASE, GRADING F	TON	11,200
306.0001.0000	ATB	TON	3,150
306.0002.5228	ASPHALT BINDER, GRADE PG 52-28	TON	142
308.0001.0000	CRUSHED ASPHALT BASE COURSE	SY	76,000
401.0001.002A	HMA, TYPE II; CLASS A	TON	11,900
401.0001.002B	HMA, TYPE II; CLASS B	TON	3,550
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40	TON	850
401.0008.002A	HMA PRICE ADJUSTMENT, TYPE II; CLASS A	CS	ALL REQ'D
401.0008.002B	HMA PRICE ADJUSTMENT, TYPE II; CLASS B	CS	ALL REQ'D
401.0009.0000	LONGITUDINAL JOINT DENSITY PRICE ADJUSTMENT	CS	ALL REQ'D
401.0012.002A	HMA, DRIVEWAY, TYPE II; CLASS A	TON	1,350
401.0015.0000	ASPHALT MATERIAL PRICE ADJUSTMENT	CS	ALL REQ'D
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	TON	19
603.0001.0012	CSP 12 INCH	LF	47
603.0001.0018	CSP 18 INCH	LF	709
603.0001.0024	CSP 24 INCH	LF	194
603.0001.0030	CSP 30 INCH	LF	158
603.0002.0042	42X29 INCH CSP ARCH	LF	128
603.0003.0012	END SECTION FOR CSP 12 INCH	EACH	2
603.0003.0018	END SECTION FOR CSP 18 INCH	EACH	38
603.0003.0024	END SECTION FOR CSP 24 INCH	EACH	6
603.0003.0030	END SECTION FOR CSP 30 INCH	EACH	4
603.0004.0042	END SECTION FOR 42X29 INCH CSP ARCH	EACH	2
603.0014.0000	REINFORCED CONCRETE END SECTION 24 INCH	EACH	1
603.0021.0018	CORRUGATED POLYETHYLENE PIPE 18 INCH	LF	546
603.0021.0024	CORRUGATED POLYETHYLENE PIPE 24 INCH	LF	1,549
603.0021.0048	CORRUGATED POLYETHYLENE PIPE 48 INCH	LF	13
603.0022.0018	END SECTION FOR CORRUGATED POLYETHYLENE PIPE 18 INCH	EACH	7
603.0022.0024	END SECTION FOR CORRUGATED POLYETHYLENE PIPE 24 INCH	EACH	2
603.2029.0018	18 INCH STORM DRAIN ADDITIONAL INSULATION, 3 INCHES	LF	133
603.2029.0024	24 INCH STORM DRAIN ADDITIONAL INSULATION, 3 INCHES	LF	275
604.0001.0001	STORM SEWER MANHOLE, TYPE I	EACH	12
604.0001.0002	STORM SEWER MANHOLE, TYPE II	EACH	1
604.0003.0000	RECONSTRUCT EXISTING MANHOLE	EACH	2
604.0004.0000	ADJUST EXISTING MANHOLE	EACH	11
604.0005.000A	INLET, TYPE A	EACH	6

ESTIMATE OF QUANTITIES

ITEM NO	DESCRIPTION	PAY UNIT	QUANTITY
606.0001.0000	W-BEAM GUARDRAIL	LF	2,050
606.0006.0000	REMOVING AND DISPOSING OF GUARDRAIL	LF	7,700
606.0013.0000	PARALLEL GUARDRAIL TERMINAL	EACH	3
606.2007.0000	CRASH CUSHION	EACH	1
607.0003.0000	CHAIN LINK FENCE	LF	5,350
608.0001.0004	CONCRETE SIDEWALK, 4 INCHES THICK	SY	140
608.0001.0006	CONCRETE SIDEWALK, 6 INCHES THICK	SY	1,350
608.0006.0000	CURB RAMP	EACH	34
608.2002.0000	ASPHALT PATHWAY	TON	930
608.2013.0005	CONCRETE SLABS, COLORED & PATTERN IMPRINTED, 4 INCHES THICK	SY	30
608.2013.0005	CONCRETE SLABS, COLORED & PATTERN IMPRINTED, 8 INCHES THICK	SY	20
608.2015.0000	CONCRETE STAIRWAY	LS	ALL REQ'D
609.0002.0001	CURB AND GUTTER, TYPE 1	LF	8,900
611.0001.0001	RIPRAP, CLASS I	CY	40
613.0002.0000	CULVERT MARKER POST	EACH	51
615.0001.0000	STANDARD SIGN	SF	1,117
615.0006.0000	SALVAGE SIGN	EACH	112
616.0002.0075	THAW PIPE 3/4 INCH DIAMETER	EACH	16
618.0002.0000	SEEDING	LB	410
620.0001.0000	TOPSOIL	SY	30,400
626.0001.0006	SANITARY SEWER CONDUIT, 6 INCH	LF	29
626.2013.0000	ADJUST SANITARY SEWER CLEANOUT	EACH	1
627.0001.0010	DUCTILE IRON WATER CONDUIT, 10 INCH, CLASS 50	LF	38
627.0001.0016	DUCTILE IRON WATER CONDUIT, 16 INCH, CLASS 50	LF	30
627.0004.0000	FIRE HYDRANT ADJUSTMENT	EACH	3
627.0010.0000	ADJUSTMENT OF VALVE BOX	EACH	10
631.0002.0001	GEOTEXTILE, EROSION CONTROL, CLASS 1	SY	84
639.2000.0000	APPROACH	EACH	65
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQ'D
641.0003.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	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	HR	100
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
643.2005.0000	PUBLIC INFORMATION PROGRAM	LS	ALL REQ'D
644.0001.0000	FIELD OFFICE	LS	ALL REQ'D
644.0006.0000	VEHICLE	LS	ALL REQ'D
645.0001.0000	TRAINING PROGRAM, 1 TRAINEES / APPRENTICES	LH	500
646.0001.0000	CPM SCHEDULING	LS	ALL REQ'D
660.0003.0000	HIGHWAY LIGHTING SYSTEM COMPLETE, OLD AIRPORT ROAD	LS	ALL REQ'D
661.0002.0000	LOAD CENTER, TYPE 1A	EACH	1
670.2002.0000	MMA PAVEMENT MARKINGS, INLAID	LS	ALL REQ'D

Preliminary

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

ESTIMATE OF QUANTITIES

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-C-Estimate of Quantities-C1 Thu, Nov/05/20 01:46pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	C2	C2

GENERAL NOTES:

1. EXISTING ASPHALT PAVEMENT THICKNESS MAY VARY DUE TO DEFORMATION AND PREVIOUS ASPHALT PATCHING ACTIVITIES.
2. ALL UTILITIES MAY NOT BE SHOWN ON THE PLANS. NOT ALL EXISTING UTILITIES WERE SURVEYED. MANY UTILITIES WERE ADDED FOR REFERENCE BASED ON AS-BUILT INFORMATION AND THEIR LOCATION(S) ARE APPROXIMATE. UTILITY RELOCATION MAY OCCUR CONCURRENTLY WITH THIS PROJECT.
3. ASPHALT REMOVED FROM THE PROJECT IS THE PROPERTY OF THE CONTRACTOR, UNLESS IT IS USED FOR CRUSHED ASPHALT BASE COURSE.
4. EXCEPT AS NOTED OTHERWISE, CLEARING LIMITS SHALL BE 10' BEYOND SLOPE STAKE CATCH POINT OR TO 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.
5. GRUBBING LIMITS SHALL BE TO THE SLOPE STAKE CATCH POINT.
6. ADJUST ALL MANHOLES TO BE 3/8" BELOW FINAL FINISHED GRADE SURFACE PRIOR TO PAVING.
7. FOR PARALLEL GUARDRAIL TERMINALS, CONSTRUCT THE GUARDRAIL TERMINAL WIDENING IN ACCORDANCE WITH THE "STANDARD DETAIL" ON ALASKA STANDARD DRAWING G-20.11. THE END OFFSET (X) SHALL BE 2'. INSTALL PARALLEL GUARDRAIL TERMINALS AT A HEIGHT OF 31" TO TOP OF THE RAIL. TRANSITION EXISTING GUARDRAIL TO THE STANDARD 31" GUARDRAIL HEIGHT IN 25 LINEAR FEET AS NOTED ON ALASKA STANDARD PLAN G-11.00. DO NOT INSTALL REFLECTORS ALONG THE END TERMINAL.
8. PLACE 4" OF TOPSOIL AND SEED ANY AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.
9. SEE V SHEETS FOR DEPICTIONS OF ALASKA STANDARD DRAWINGS.
10. INSULATION OF STORM DRAIN STRUCTURES IS SUBSIDIARY TO 604 ITEMS.

ESTIMATING FACTORS

ITEM NO.	ITEM	FACTOR
203.0006.0000	BORROW	2 TONS / CY
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	2 TONS / CY
304.2000.000F	SUBBASE, GRADING F	2 TONS / CY
306.0001.0000	ATB	2 TONS / CY
306.0002.5228	ASPHALT BINDER, GRADE PG 52-28	4.5% OF 306.0001.0000 WEIGHT
401.0001.002A	HMA, TYPE II; CLASS A	2 TONS / CY
401.0001.002B	HMA, TYPE II; CLASS B	2 TONS / CY
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40	5.5% OF 401.0001.002A & 401.0001.002B WEIGHT
401.0012.002A	HMA, DRIVEWAY, TYPE II; CLASS A	2 TONS / CY
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	0.0003 TONS / SY
608.2002.0000	ASPHALT PATHWAY	2 TONS / CY
611.0002.0001	RIPRAP, CLASS I	108 LBS / CF
618.0002.0000	SEEDING	1.6 LBS / 1,000 SF

ABBREVIATIONS

Δ	DELTA ANGLE
"A"	AIRPORT WAY REFERENCE ALIGNMENT
"A1"	AIRPORT WAY REFERENCE ALIGNMENT
"A2"	WEIN LAKE ROAD REFERENCE ALIGNMENT
"A3"	AIRPORT WAY ON-RAMP REFERENCE ALIGNMENT
ADT	AVERAGE DAILY TRAFFIC
ALIGN	ALIGNMENT
BOP	BEGINNING OF PROJECT
℄, CL	CENTERLINE
CF	CUBIC FEET
CPP	CORRUGATED POLYETHYLENE PIPE
CY	CUBIC YARD
"D"	DALE ROAD ALIGNMENT REFERENCE
D	DEGREE OF CURVATURE, DIAMETER
DOT&PF	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DW	DRIVEWAY
DWG	DRAWING
E	EAST, EASTING
EA	EACH
EL, ELEV	ELEVATION
EOP	END OF PROJECT
ESCP	EROSION AND SEDIMENT CONTROL PLAN
FT	FEET, FOOT
"H"	HOSELTON ROAD REFERENCE ALIGNMENT
HMA	HOT MIX ASPHALT
IN	INCH
L	LENGTH
LF	LINEAR FEET
LT	LEFT
ME	MATCH EXISTING
MIN	MINIMUM
N	NORTH, NORTHING
NB	NORTHBOUND
NE	NORTHEAST
NT	NOT TANGENT
NTS	NOT TO SCALE
NW	NORTHWEST

ABBREVIATIONS

"OA"	OLD AIRPORT ROAD REFERENCE ALIGNMENT
"P"	PATHWAY REFERENCE ALIGNMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCF	POUNDS PER CUBIC FOOT
PPT	PARALLEL PATH TERMINATION
PRC	POINT OF REVERSE CURVATURE
PG	PROFILE GRADE
PI	POINT OF INTERSECTION
POR	POINT OF ROTATION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PT	POINT OF TANGENCY
R/W	RIGHT-OF-WAY
R	RADIUS
RP	RADIUS POINT
RT	RIGHT
S	SOUTH, SUPERELEVATION
SB	SOUTHBOUND
SE	SOUTHEAST
SF	SQUARE FEET
SHLD	SHOULDER
STA	STATION
STD	STANDARD
SW	SOUTHWEST
SY	SQUARE YARD
T	TANGENT, TRUCKS
TBC	TOP BACK OF CURB
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	DESIGN SPEED
VC	VERTICAL CURVE
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WEST
WWF	WELDED WIRE FABRIC

Preliminary Plans

ESTIMATE OF QUANTITIES

STATE OF ALASKA
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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-C-Estimate of Quantities-C2 Thu, Nov/05/20 01:46pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	D1	D3

202.0001.0000 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS SUMMARY

SHEET	STATION RANGE			OFFSET	REMARKS
F29	355+40	TO	359+00	LT	REMOVE DELINEATORS, 29 EACH
U5	803+77.60			141.72 LT	REMOVE MANHOLE

202.0002.0000 – REMOVAL OF PAVEMENT SUMMARY

ROAD	AREA		REMARKS
	SF	SY	
DALE RD	139,009	15,445	
AIRPORT WAY	9,408	1,045	
WEIN LAKE RD	728	81	
OLD AIRPORT RD	29,584	3,287	
HOSELTON RD/BOAT ST	146,052	16,228	
TOTAL		36,086	
ROUNDED TOTAL		36,100	

202.0009.0000 – REMOVAL OF CURB AND GUTTER

LOCATION	LENGTH	REMARKS
	LF	
OLD AIRPORT RD/WEIN LAKE RD	282	
DALE RD/KORNFIEND	37	
TOTAL	319	
ROUNDED TOTAL	320	

202.00010.0000 – SINGLE MAIL BOX INSTALLATION

ALIGNMENT	EXISTING LOCATION		PROPOSED LOCATION		QUANTITY	REMARKS
	STATION	OFFSET (FT)	STATION	OFFSET (FT)	EACH	
D	505+13.71	13.73 LT	505+13.71	17.20 LT	1	
D	529+56.93	17.36 LT	529+32.90	29.26 LT	1	
H	718+79.24	22.83 LT	719+15.19	29.18 LT	1	
H	720+55.21	22.87 LT	720+55.21	29.30 LT	1	
H	721+37.85	22.64 LT	721+37.85	29.20 LT	1	
H	729+59.61	24.53 LT	729+92.05	29.96 LT	1	
H	732+10.17	22.71 LT	732+38.50	29.13 LT	1	
H	733+99.45	22.55 LT	733+99.45	29.25 LT	1	
H	735+89.17	21.56 LT	736+53.54	29.30 LT	1	
TOTAL					9	

202.0011.0000 – MULTIPLE MAIL BOX INSTALLATION

ALIGNMENT	EXISTING LOCATION		PROPOSED LOCATION		QUANTITY	REMARKS
	STATION	OFFSET (FT)	STATION	OFFSET (FT)	EACH	
H	505+21.53	14.13 LT	505+21.53	17.30 LT	1	
TOTAL					1	

202.0004.000 – REMOVAL OF CULVERT PIPE SUMMARY

SHEET	ALIGNMENT	START		END		SIZE (IN)	LENGTH (LF)	REMARKS
		STATION	OFFSET	STATION	OFFSET			
F47	OA	842+98.3	28.6 RT	842+95.5	31.9 LT	18"	61	
F30	A	365+18.5	44.6 RT	365+17.9	50.1 LT	30"	95	
F15	H	717+43.6	23.9 RT	717+42.0	43.9 LT	30"	68	
F7	D	534+14.9	31.6 LT	533+75.7	30.6 LT	18"	39	
F41	OA	803+43.4	23.0 RT	803+75.0	23.0 RT	18"	32	
F3	D	510+61.6	27.8 LT	509+83.5	26.8 LT	18"	78	
F3	D	511+80.8	27.9 LT	511+41.6	28.5 LT	18"	39	
F7	D	532+63.1	39.1 LT	532+24.0	38.0 LT	18"	39	
F7	D	534+62.0	32.4 LT	535+00.1	33.1 LT	18"	38	
F7	D	536+30.4	35.2 LT	535+70.9	33.4 LT	18"	60	
F13	H	705+33.0	23.7 LT	706+13.3	23.5 LT	18"	80	
F13	H	706+28.3	23.1 LT	707+08.7	23.6 LT	18"	80	
F13	H	707+15.7	23.6 LT	707+95.7	23.7 LT	18"	80	
F15	H	719+09.5	31.4 LT	718+81.0	31.2 LT	12"	28	
F15	H	720+47.4	31.6 LT	720+22.9	31.5 LT	12"	24	
F15	H	720+98.4	31.6 LT	721+23.7	31.4 LT	12"	25	
F16	H	725+16.4	34.0 LT	725+34.1	34.9 LT	18"	18	
F17	H	729+65.2	30.5 LT	730+09.8	32.4 LT	18"	45	
F17	H	731+05.5	39.5 LT	730+78.5	39.2 LT	18"	27	
F17	H	732+40.7	36.4 LT	732+02.7	36.0 LT	18"	38	
F17	H	733+92.3	31.0 LT	733+74.7	31.8 LT	24"	17	
F19	H	739+15.9	35.8 RT	739+10.7	66.0 LT	36"	102	
F20	H	744+31.5	32.1 LT	745+01.7	31.0 LT	18"	70	
F20	H	746+09.7	30.0 LT	745+90.5	31.4 LT	12"	19	
F41	OA	803+88.4	21.1 RT	803+77.6	141.8 LT	15"	163	
F42	OA	808+56.8	21.2 RT	808+83.9	21.5 RT	4"	27	
F42	OA	807+40.3	22.1 RT	807+82.5	21.7 RT	4"	42	
F41	OA	803+77.6	141.8 LT	803+60.2	253.4 LT	18"	113	
F44	OA	824+97.6	25.5 RT	825+02.7	37.9 LT	18"	64	
						TOTAL	1,611	
						ROUNDED TOTAL	1,650	

202.0003.0000 – REMOVAL OF SIDEWALK SUMMARY

LOCATION	AREA		REMARKS
	SF	SY	
OLD AIRPORT RD/WEIN LAKE RD	1,013	113	
BOAT ST/EOP	1,118	124	
TOTAL		237	
ROUNDED TOTAL		240	

203.0009.0000 – OBLITERATION OF ROADWAY

LOCATION	AREA		REMARKS
	SF	SY	
OLD AIRPORT RD/ DALE RD	3,167	352	
DALE RD/AIRPORT WAY/OLD AIRPORT RD	10,593	1,177	
PATHWAY/PIKE'S LANDING	1,584	176	
DW "OA" 849+72	1,745	194	
HOSELTON RD/PIKE'S GREENHOUSE	1,399	155	
TOTAL		878	
ROUNDED TOTAL		2,100	

Preliminary Plans

SUMMARY TABLES

STATE OF ALASKA
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PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	D2	D3

604.0003.0000 – RECONSTRUCT EXISTING MANHOLE

SHEET	ALIGNMENT	STATION	OFFSET	REMARKS
F41	OA	801+10.22	23.2 RT	
F41	OA	810+37.41	35.7 RT	
TOTAL			2	

604.0004.0000 – ADJUST EXISTING MANHOLE

SHEET	ALIGNMENT	STATION	OFFSET	REMARKS
F13	H	709+06.25	28.4 LT	
F13	H	709+54.19	18.0 RT	
F14	H	713+82.90	23.4 RT	
F14	H	715+65.43	15.6 RT	
F14	H	716+48.31	27.3 LT	
F16	H	727+49.44	29.6 RT	
F17	H	730+66.92	28.3 RT	
F41	OA	802+55.74	27.6 RT	
F41	OA	804+88.01	26.3 RT	
F41	OA	805+76.93	26.7 RT	
F41	OA	807+33.78	27.3 RT	
TOTAL			11	

GUARDRAIL SUMMARY

SHEET	STATION RANGE			OFFSET	606.0001.0000 W-BEAM GUARDRAIL (LF)	606.0006.0000 REMOVING AND DISPOSING OF GUARDRAIL (LF)	606.0013.0000 PARALLEL GUARDRAIL TERMINAL (EA)	606.2007.0000 CRASH CUSHION (EA)	REMARKS
F2–F7	509+15.17	TO	537+53.61	RT		5,709			DOUBLE GUARDRAIL, INCLUDING GLARE SCREEN
F10	607+43.28	TO	611+17.38	LT	368				
F12	701+16.83	TO	701+54.89	LT		53			
F22	318+02.82	TO	318+16.81	LT		30		1	
F35	202+59.17	TO	204+70.54	RT		211			
F35–F36	203+09.68	TO	210+35.39	LT	726		1		
F35–F36	202+59.72	TO	210+35.39	LT		776			
F35–F36	203+33.66	TO	205+70.41	RT	237		1		
F38–F39	404+64.61	TO	405+65.73	LT		103			
F38–F39	400+00.00	TO	407+55.63	RT		729			
F38–F39	401+00.00	TO	407+56.68	RT	630				
F39	405+13.96	TO	405+65.73	LT	52		1		
F43	816+38.94	TO	816+83.51	RT		52			
TOTAL					2,013	7,663	3	1	
ROUNDED TOTAL					2,050	7,700	3	1	

FENCE SUMMARY

SHEET	STATION RANGE			OFFSET	202.0022.0000 LENGTH (FT)	607.0003.0000 LENGTH (FT)	REMARKS
F2–F8	507+53.90	TO	541+20.09	RT		3,373	5' FABRIC HEIGHT
F9–F10	602+41.30	TO	610+93.90	RT		861	5' FABRIC HEIGHT
F12–F14	701+53.42	TO	712+48.60	RT		1,106	5' FABRIC HEIGHT
F13–F14	707+83.56	TO	712+48.60	RT	469		
TOTAL					469	5,340	
ROUNDED TOTAL					470	5,350	

609.0002.0001 – CURB AND GUTTER, TYPE 1 SUMMARY

ROAD	STATION RANGE			STANDARD	TRANSITION	CURB RAMP	GUTTER	CURB TERMINATION TRANSITION	TOTAL	REMARKS
				LF	LF	LF	LF	EACH	LF	
DALE RD	BROADMOOR AVE	TO	DISCOVERY DR	448	38	115		2	621	
DALE RD	DISCOVERY DR	TO	KING RD	558	26	85		2	690	
DALE RD	KING RD	TO	ELLIOT LN	1,416	62	168		2	1,665	
DALE RD	ELLIOT LN	TO	AIRPORT WAY	397	31	89		2	537	
AIRPORT WAY	DALE RD	TO	PIKE'S WATERFRONT	145	36	30		1	221	
HOSELTON RD	PIKE'S WATERFRONT	TO	DIGGER DR	604	55	195		1	864	
HOSELTON RD	DIGGER DR	TO	PIKE'S LANDING RD	667	14	60		2	762	
HOSELTON RD	PIKE'S LANDING RD	TO	CRANBERRY ST	452	50	104		2	626	
HOSELTON RD	CRANBERRY ST	TO	ROSEBUD LN	461	50	99		2	630	
HOSELTON RD	ROSEBUD LN	TO	STERNWHEELER	419	52	141		4	652	
BOAT ST	STERNWHEELER	TO	RIVER'S EDGE RESORT	789	26	79		4	934	
BOAT ST	RIVER'S EDGE RESORT	TO	EOP	101	19	39		2	179	
OLD AIRPORT RD	WEIN LAKE RD	TO	EVERTS AIR FUEL	295	65	61	53	1	484	
SUBTOTAL				6,752	524	1,266	53	27	8,866	
TOTAL									8,866	
ROUNDED TOTAL									8,900	

ASPHALT PATHWAY SURFACING

ROAD	STATION RANGE			608.2002.0000 ASPHALT PATHWAY AREA SF	608.2002.0000 ASPHALT PATHWAY WEIGHT TON	REMARKS
DALE RD	BROADMOOR AVE	TO	DISCOVERY DR	4,475	55	
DALE RD	DISCOVERY DR	TO	KING RD	5,204	64	
DALE RD	KING RD	TO	ELLIOT LN	14,138	175	
DALE RD	ELLIOT LN	TO	AIRPORT WAY	2,850	35	
DALE RD	PATHWAY LOOP			4,037	50	
AIRPORT WAY	DALE RD	TO	PIKE'S WATERFRONT	9,964	123	
HOSELTON RD	PIKE'S WATERFRONT	TO	DIGGER DR	5,833	72	
HOSELTON RD	DIGGER DR	TO	PIKE'S LANDING RD	7,322	90	
HOSELTON RD	PIKE'S LANDING RD	TO	CRANBERRY ST	4,520	56	
HOSELTON RD	CRANBERRY ST	TO	ROSEBUD LN	4,610	57	
HOSELTON RD	ROSEBUD LN	TO	STERNWHEELER	4,193	52	
BOAT ST	STERNWHEELER	TO	RIVER'S EDGE RESORT	5,695	70	
BOAT ST	RIVER'S EDGE RESORT	TO	EOP	1,930	24	
TOTAL				74,771	923	
ROUNDED TOTAL					930	

Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	D3	D3

CONCRETE SUMMARY

ROAD	STATION RANGE			AREA				608.0001.0004	608.0001.0006	608.2013.0005	608.2013.0005	REMARKS
				SIDEWALK	RAMP	APPROACH	COLORED	CONCRETE SIDEWALK, 4" THICK	CONCRETE SIDEWALK, 6" THICK	COLORED CONCRETE, 4" THICK	COLORED CONCRETE, 8" THICK	
				SF	SF	SF	SF	SY	SY	SY	SY	
DALE RD	BROADMOOR AVE	TO	DISCOVERY DR		492	1,240			138			
DALE RD	DISCOVERY DR	TO	KING RD		521	522			58			
DALE RD	KING RD	TO	ELLIOT LN		493	2,384			265			
DALE RD	ELLIOT LN	TO	AIRPORT WAY		273	1,253			139			
AIRPORT WAY	DALE RD	TO	PIKE'S WATERFRONT		229	0	143		0		16	
HOSELTON RD	PIKE'S WATERFRONT	TO	DIGGER DR		395	2,776			308			
HOSELTON RD	DIGGER DR	TO	PIKE'S LANDING RD		516	0			0			
HOSELTON RD	PIKE'S LANDING RD	TO	CRANBERRY ST		516	1,172			130			
HOSELTON RD	CRANBERRY ST	TO	ROSEBUD LN		492	1,140			127			
HOSELTON RD	ROSEBUD LN	TO	STERNWHEELER		976	760			84			
BOAT ST	STERNWHEELER	TO	RIVER'S EDGE RESORT		484	566			63			
BOAT ST	RIVER'S EDGE RESORT	TO	EOP		318	0			0			
OLD AIRPORT RD	WEIN LAKE RD	TO	EVERTS AIR FUEL	1,236	756	0	240	137	0	27		
TOTAL				1,236	6,461	11,813	383	137	1,313	27	16	
ROUNDED TOTAL								140	1,350	30	20	

611.0001.0001 – RIPRAP, CLASS I SUMMARY

SHEET	ALIGNMENT	STATION	OFFSET	AREA (SF)	VOLUME (CY)	WEIGHT (TON)	REMARKS
F19	H	739+55.54	58.58 LT	140	10.37	15	
F25	A	334+08.44	82.23 RT	140	10.37	15	
F41	OA	803+61.46	245.31 LT	140	10.37	15	
TOTAL					31.11	45	
ROUNDED TOTAL					40		

626.2000.0001 – ADJUST SANITARY SEWER CLEANOUT

SHEET	ALIGNMENT	STATION	OFFSET	REMARKS
F10	P	608+12.06	4.60 RT	
TOTAL			1	

627.0004.0000 – FIRE HYDRANT ADJUSTMENT

SHEET	ALIGNMENT	STATION	OFFSET	REMARKS
F6	D	529+62.67	38.05 LT	
F13	H	707+43.59	13.90 RT	
	OA	836+78.63	38.57 LT	
TOTAL			3	

627.0010.0000 – ADJUSTMENT OF VALVE BOX

SHEET	ALIGNMENT	STATION	OFFSET	REMARKS
F3	D	512+97.72	45.09 LT	
F6	D	529+62.91	36.47 LT	
F12	H	702+34.04	17.38 RT	
F13	H	705+71.89	17.77 RT	
F13	H	707+21.01	21.33 RT	
F13	H	707+43.60	16.15 RT	
F13	H	709+43.25	26.35 RT	
F13	H	709+44.76	26.61 RT	
F13	H	709+44.62	29.26 RT	
	OA	836+78.73	35.77 LT	
TOTAL			10	

Preliminary Plans

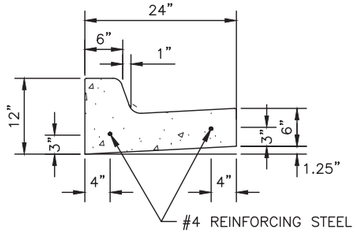
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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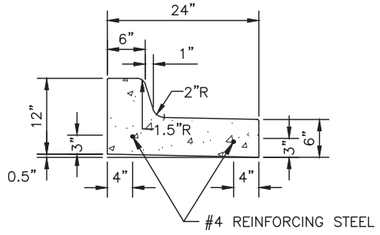
SUMMARY TABLES

NO.	DATE	REVISION

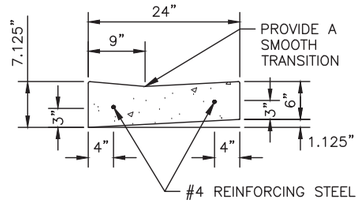
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ALASKA	0610004/Z618720000	2020	E1	E7



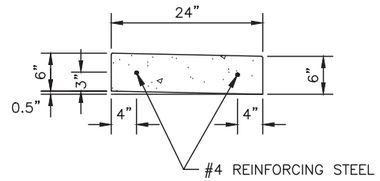
STANDARD CURB & GUTTER
CATCH



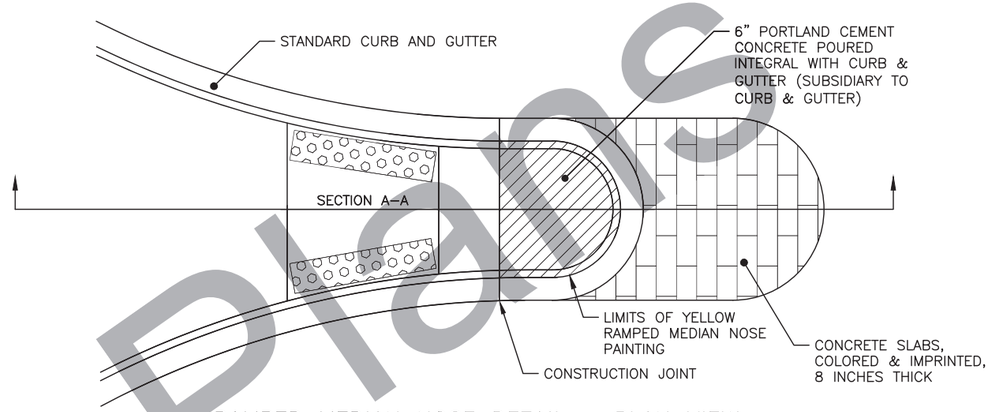
STANDARD CURB & GUTTER
SPILL



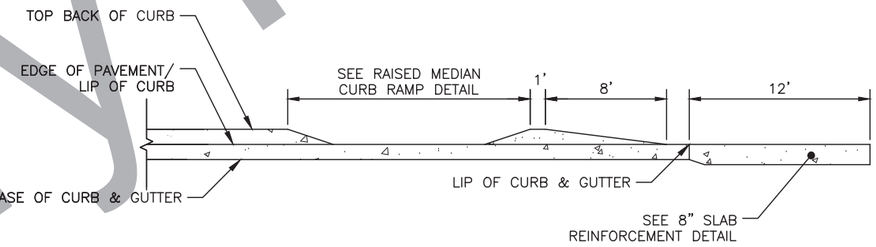
CURB RAMP CURB & GUTTER
CATCH



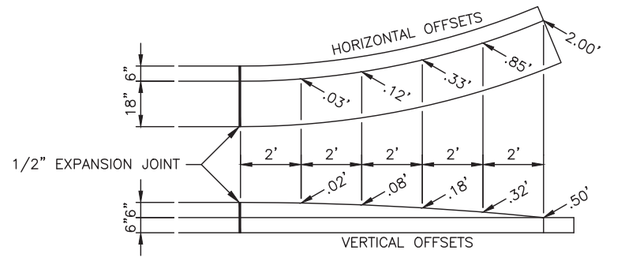
CURB RAMP CURB & GUTTER
SPILL



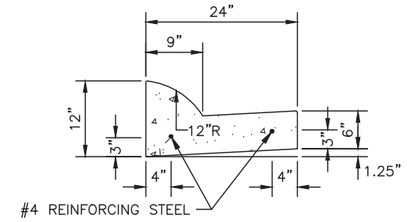
RAMPED MEDIAN NOSE DETAIL – PLAN VIEW



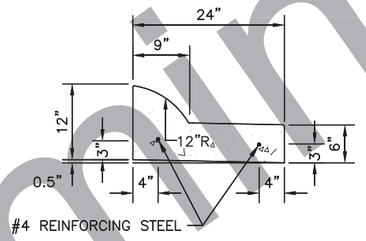
SECTION A–A



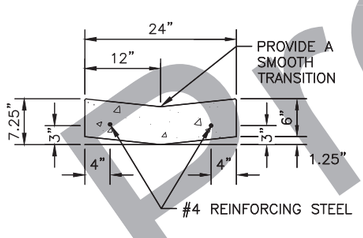
CURB & GUTTER TERMINATION TRANSITION



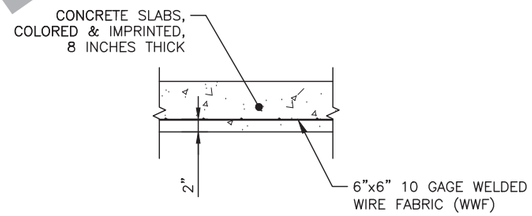
EXPRESSWAY CURB & GUTTER
CATCH



EXPRESSWAY CURB & GUTTER
SPILL



GUTTER
CATCH



8" SLAB REINFORCEMENT

CURB & GUTTER NOTES:

1. ANY DAMAGE SUSTAINED DURING CONSTRUCTION TO CURB, GUTTER, INLET BOX FRAME, GRATE, OR CONCRETE BARRIER WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
2. ALL SHAPES OF CURB & GUTTER TO BE REINFORCED.
3. ALL CURB & GUTTER LAYOUT DIMENSIONS ARE TO LIP OF GUTTER.
4. CURB RAMP CURB & GUTTER (CATCH) SHALL HAVE A GUTTER PAN SLOPE NO STEEPER THAN 5.0%
5. ALL CURB & GUTTER SHALL BE TYPE 1.

DETAILS

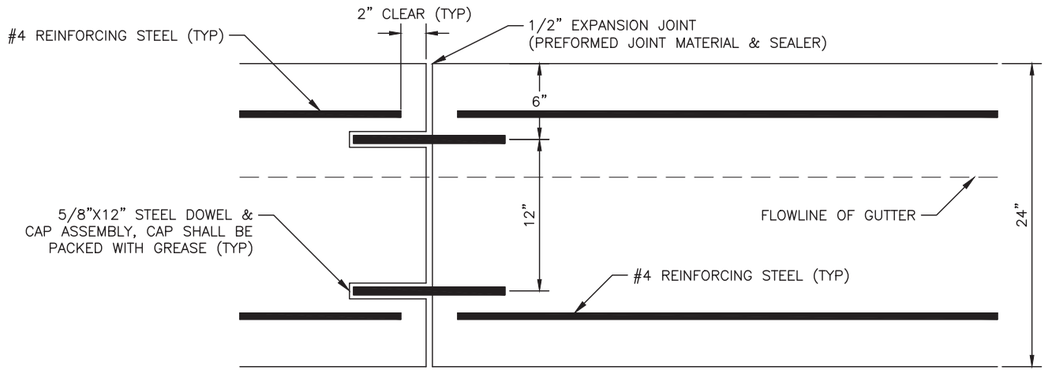
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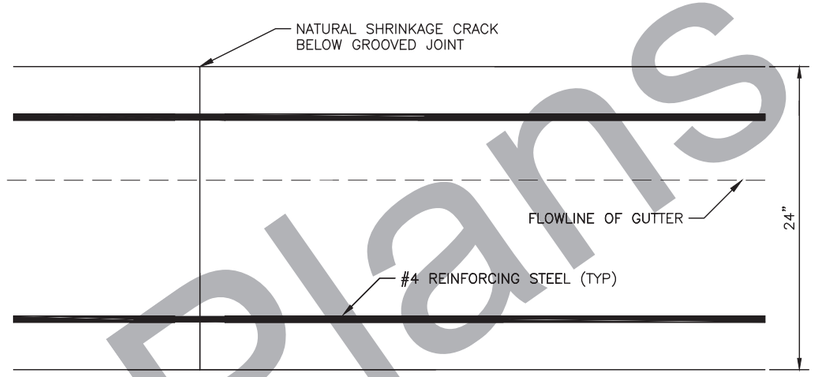
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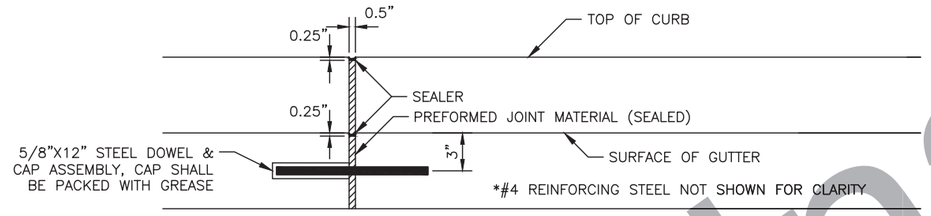
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	E2	E7



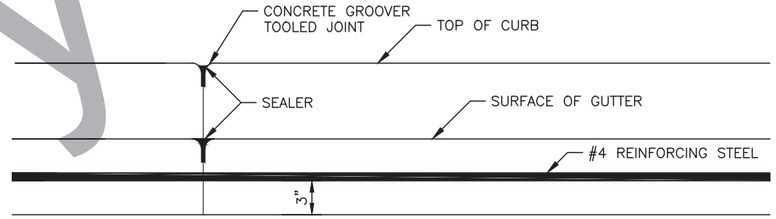
CURB & GUTTER CONSTRUCTION JOINT DETAIL – PLAN VIEW



CURB & GUTTER CONTRACTION JOINT DETAIL – PLAN VIEW



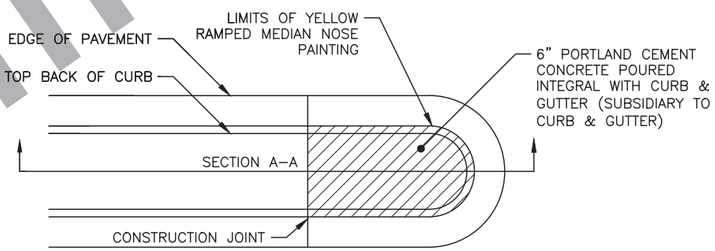
CURB & GUTTER CONSTRUCTION JOINT DETAIL – ELEVATION VIEW



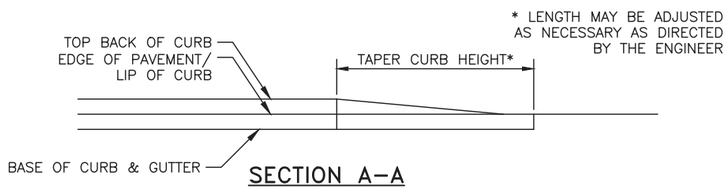
CURB & GUTTER CONTRACTION JOINT DETAIL – ELEVATION VIEW

CURB & GUTTER NOTES:

1. JOINT MATERIAL AND SEALER SHALL BE AS APPROVED BY THE ENGINEER.
2. JOINT SEALER SHALL BE SILICONE.
3. ALL DOWELS, EXPANSION JOINT MATERIAL, AND REINFORCING STEEL ARE SUBSIDIARY TO PAY ITEM 609.0002.0001.
4. INSTALL CONTRACTION JOINTS AT MAXIMUM INTERVALS OF 10 FEET ON CENTER UNLESS OTHERWISE NOTED IN RUNS OF CURB AND GUTTER. INSTALL CONSTRUCTION JOINTS AT MAXIMUM INTERVALS OF 50 FEET OF CURB AND GUTTER AND AT ALL NEW MEDIAN NOSES.



RAMPED MEDIAN NOSE DETAIL – PLAN VIEW



SECTION A–A

DETAILS

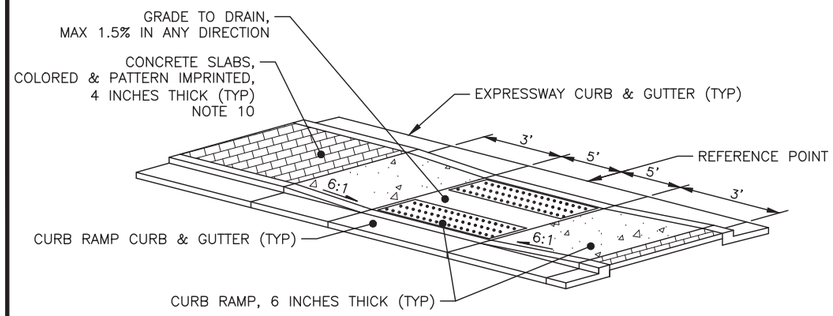
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Preliminary Plans

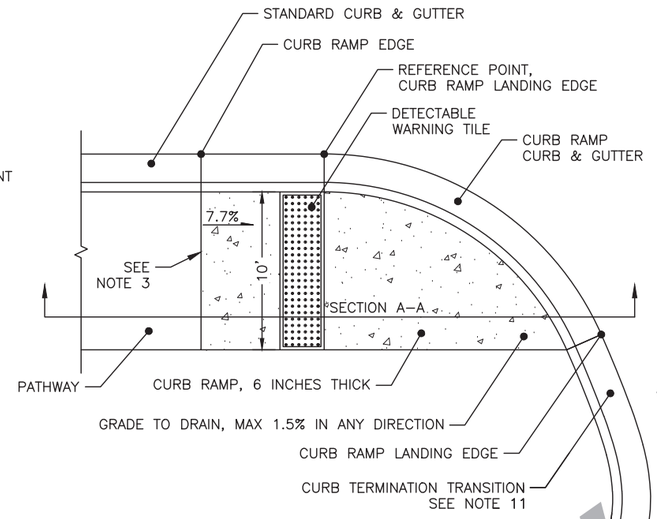
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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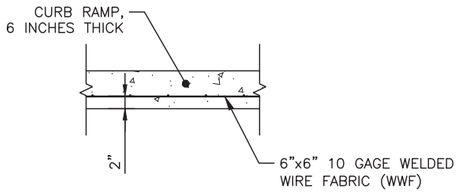
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	E3	E7



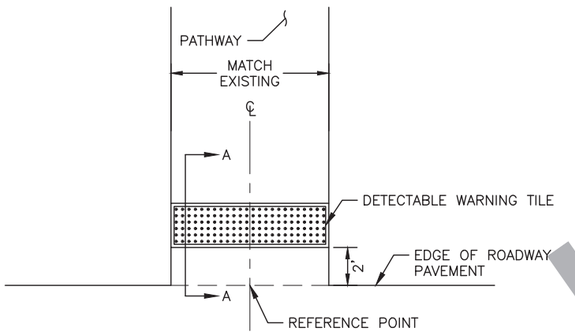
RAISED MEDIAN CURB RAMP



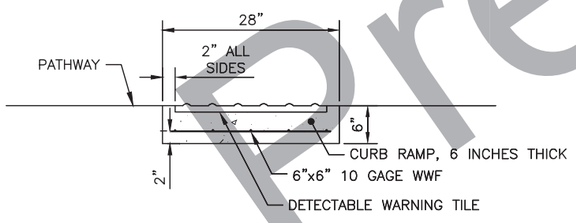
DIRECTIONAL RAMP



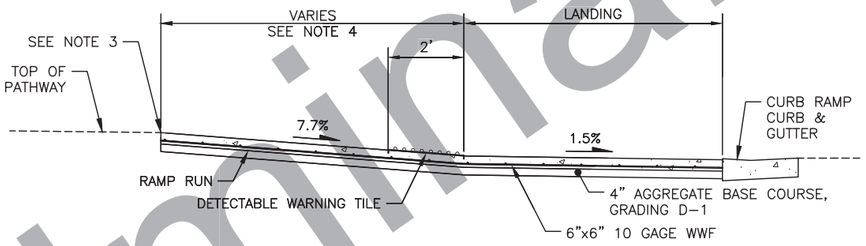
6" CURB RAMP REINFORCEMENT



AT–GRADE RAMP



SECTION A–A



SECTION A–A

608.0006.0000 CURB RAMP

ROAD	SHEET	REFERENCE POINT STATION	REFERENCE POINT OFFSET	TYPE	RAMP RUN WIDTH (FT)	REMARKS
DALE RD	F2	507+18.50	LT	DIRECTIONAL	10	BROADMOOR AVE
DALE RD	F3	512+62.00	LT	DIRECTIONAL	10	DISCOVERY DR
DALE RD	F3	513+72.00	LT	DIRECTIONAL	10	DISCOVERY DR
DALE RD	F4	519+48.89	LT	DIRECTIONAL	10	KING RD
DALE RD	F4	520+88.38	LT	DIRECTIONAL	10	KING RD
DALE RD	F7	536+82.28	LT	DIRECTIONAL	10	ELLIOT LN
DALE RD	F8	537+96.49	LT	DIRECTIONAL	10	ELLIOT LN
HOSELTON RD	F12	700+81.44	LT	AT–GRADE	10	PIKE'S LANDING
HOSELTON RD	F12	700+97.59	LT	AT–GRADE	10	PIKE'S LANDING
HOSELTON RD	F12	701+04.37	LT	AT–GRADE	10	PIKE'S WATERFRONT LODGE
HOSELTON RD	F12	701+37.18	LT	DIRECTIONAL	10	PIKE'S WATERFRONT LODGE
HOSELTON RD	F13	709+13.69	LT	DIRECTIONAL	10	DIGGER DR
HOSELTON RD	F13	710+21.45	LT	DIRECTIONAL	10	DIGGER DR
HOSELTON RD	F15	717+09.00	LT	DIRECTIONAL	10	PIKE'S LANDING RD
HOSELTON RD	F15	718+35.00	LT	DIRECTIONAL	10	PIKE'S LANDING RD
HOSELTON RD	F15	723+81.00	LT	DIRECTIONAL	10	CRANBERRY ST
HOSELTON RD	F15	724+85.00	LT	DIRECTIONAL	10	CRANBERRY ST
HOSELTON RD	F17	730+38.00	LT	DIRECTIONAL	10	ROSEBUD LN
HOSELTON RD	F17	731+42.00	LT	DIRECTIONAL	10	ROSEBUD LN
HOSELTON RD	F18	735+68.00	LT	DIRECTIONAL	10	STERNWHEELER TANANA CHIEF
HOSELTON RD	F18	736+76.00	LT	DIRECTIONAL	10	STERNWHEELER TANANA CHIEF
HOSELTON RD	F18	737+49.43	LT	DIRECTIONAL	10	STERNWHEELER TANANA CHIEF
HOSELTON RD	F18	738+38.57	LT	DIRECTIONAL	10	STERNWHEELER TANANA CHIEF
BOAT ST	F20	744+20.00	LT	DIRECTIONAL	10	RIVER'S EDGE RESORT
BOAT ST	F20	745+24.00	LT	DIRECTIONAL	10	
BOAT ST	F20	745+94.00	LT	AT–GRADE	10	
BOAT ST	F20	745+94.00	RT	AT–GRADE	10	
OLD AIRPORT RD	F41	800+76.09	LT	PARALLEL	5	
OLD AIRPORT RD	F41	801+00.97	RT	PARALLEL	5	
OLD AIRPORT RD	F41	801+19.60	RT	PARALLEL	5	
OLD AIRPORT RD	F41	801+27.35	LT	DIRECTIONAL	10	
OLD AIRPORT RD	F41	801+40.35	LT	DIRECTIONAL	10	
OLD AIRPORT RD	F41	801+57.19	LT	AT–GRADE	5	
OLD AIRPORT RD	F41	803+29.00	RT	DIRECTIONAL	5	
TOTAL		34	EACH			

PATHWAY, SIDEWALK, & CURB RAMP NOTES:

1. WHEN SAWCUTTING EXISTING SIDEWALK, THE CONTRACTOR SHALL ENSURE THAT NO JUNCTION BOX, UTILITY VAULT, OR CONDUIT IS DAMAGED. ANY DAMAGE INCURRED DURING SIDEWALK REMOVAL OR INSTALLATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. IN TRANSITION REGIONS, CONTRACTION JOINTS SHALL BE MADE ON THE SURFACE OF THE NEW SIDEWALK TO BEST MATCH THE SURROUNDING SIDEWALK AS APPROVED BY THE ENGINEER.
3. CONSTRUCT CONTRACTION JOINT WHEN ABUTTING NEW OR EXISTING CONCRETE SIDEWALK OR PATHWAY.
4. TRANSITION BETWEEN RAMP SLOPE AND LANDING SHALL BE SMOOTH AND WITHOUT ABRUPT CHANGE.
5. CONSTRUCT PARALLEL CURB RAMPS IN ACCORDANCE WITH ALASKA STANDARD DRAWING I–21.12.
6. CONSTRUCT PERPENDICULAR CURB RAMPS IN ACCORDANCE WITH THE ALASKA STANDARD DRAWING I–22.11.
7. CONCRETE FOR CURB RAMPS SHALL BE 6 INCHES THICK.
8. DETECTABLE WARNING TILES SHALL BE PLACED TO ALLOW 2" OF CONCRETE BETWEEN EDGE OF TILE AND THE CLOSEST CONCRETE JOINT.
9. CONSTRUCT RAMP SLOPES AT A NOMINAL 7.7% GRADE, OR FLATTER.
10. REINFORCE ALL CURB RAMPS AND COLORED & PATTERN IMPRINTED CONCRETE SLABS PER THE DETAIL ON THIS SHEET. WWF SHALL BE SUBSIDIARY TO PAY ITEM 608.0006.0000.
11. HORIZONTAL LAYOUT OF CURB TERMINATION TRANSITIONS TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL SHOWN IN PLANS. VERTICAL LAYOUT SHALL MATCH CURB RAMP LANDING EDGE HEIGHT.

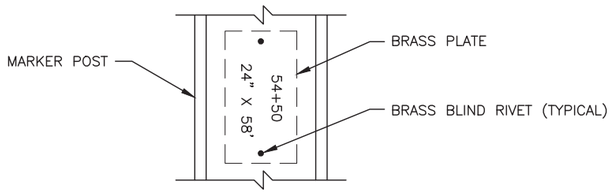
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Preliminary Plans

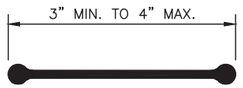
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522–1707
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			ALASKA	0610004/Z618720000	2020	E4	E7

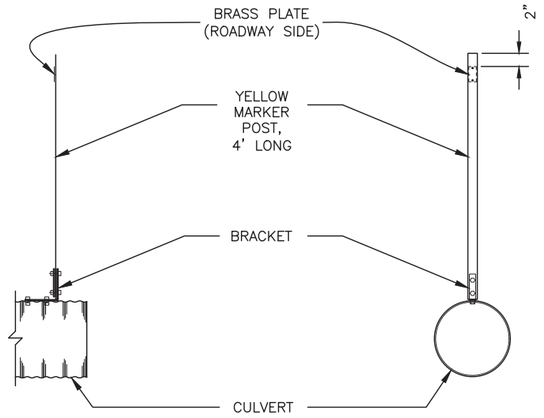


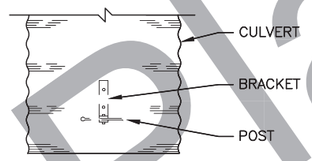
STAMP STATION AND PIPE SIZE, USING 3/8" HIGH MINIMUM LETTERS INTO A 2"X4"X 0.064" THICK BRASS PLATE. FASTEN PLATE TO THE SIDE FACING THE ROADWAY WITH TWO 1/8" BRASS BLIND RIVETS.

BRASS PLATE DETAIL



POST DETAIL
CROSS–SECTIONAL VIEW

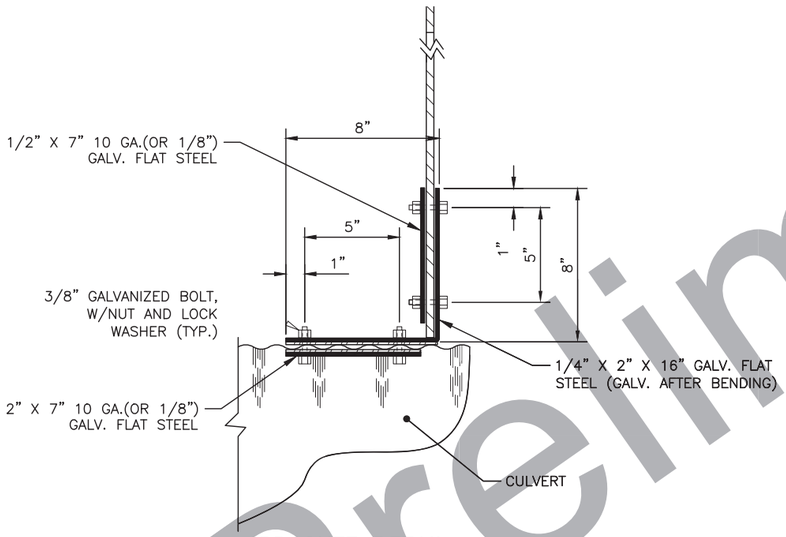




CULVERT MARKER POSTS NOTES:

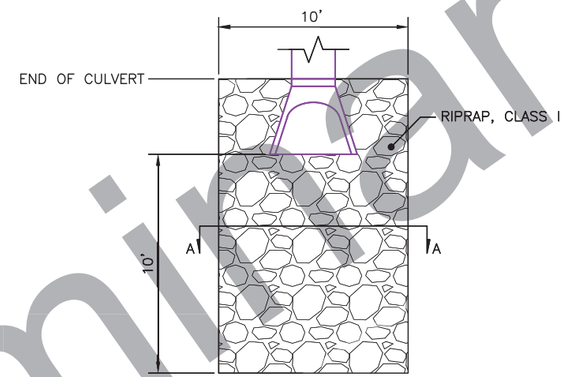
1. MARKER POSTS ARE TO BE INSTALLED ON CROSS CULVERTS ONLY.
2. IF CULVERTS ARE CLOSELY SPACED, MARK ONLY THE FIRST AND LAST CULVERT IN SERIES AS APPROVED BY THE ENGINEER.
3. DRILL ALL BOLT HOLES. COAT HOLES WITH ZINC RICH PAINT. FLAME CUTTING SHALL NOT BE PERMITTED.
4. GASKET MATERIAL SHALL BE PLACED BETWEEN DISSIMILAR METALS. GASKET MATERIAL SHALL BE APPROVED PRIOR TO INSTALLATION.
5. HOT DIP GALVANIZE FLAT STEEL TO MEET AASHTO M 111. GALVANIZE AFTER BENDING.

CULVERT MARKER POST DETAIL

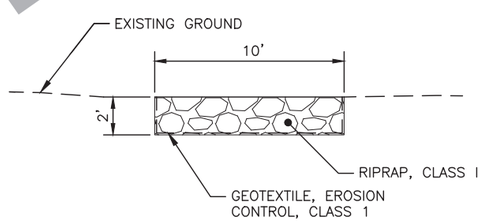


BRACKET DETAIL

CULVERT MARKER POST DETAILS

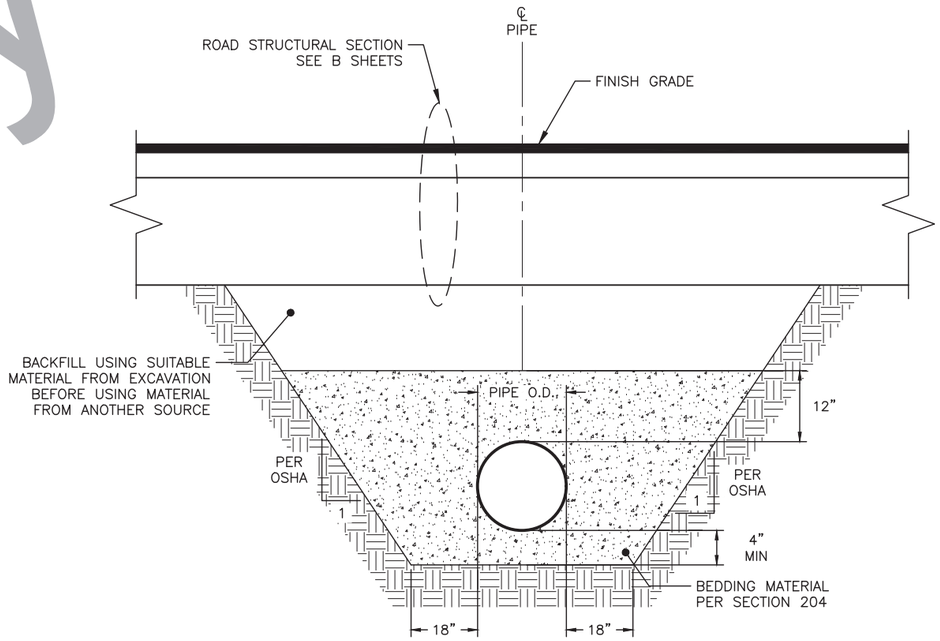


PLAN VIEW



SECTION A–A

ROCK FLUME



PIPE TRENCH

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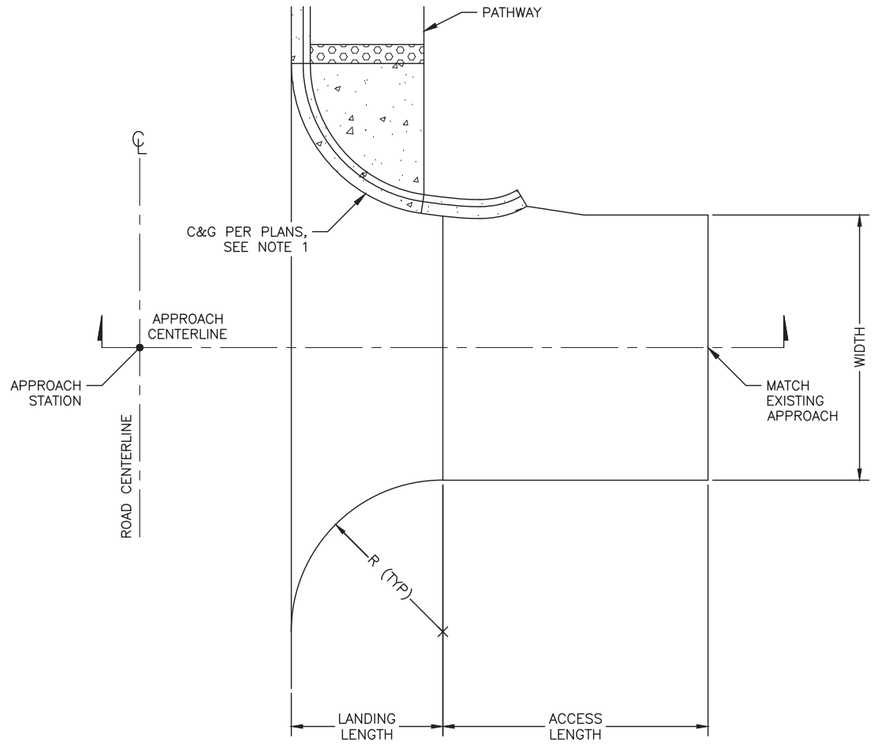
DETAILS

Preliminary Plans

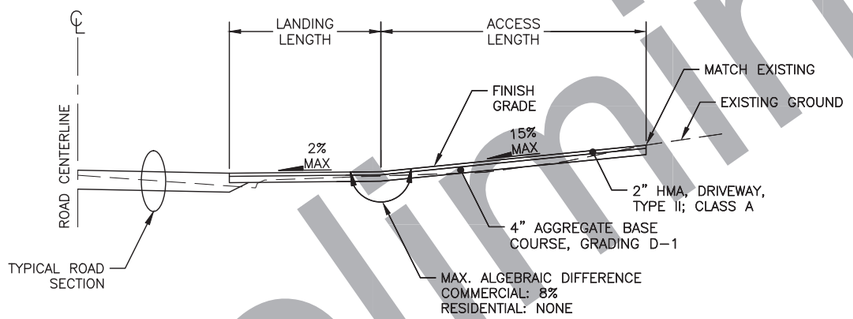
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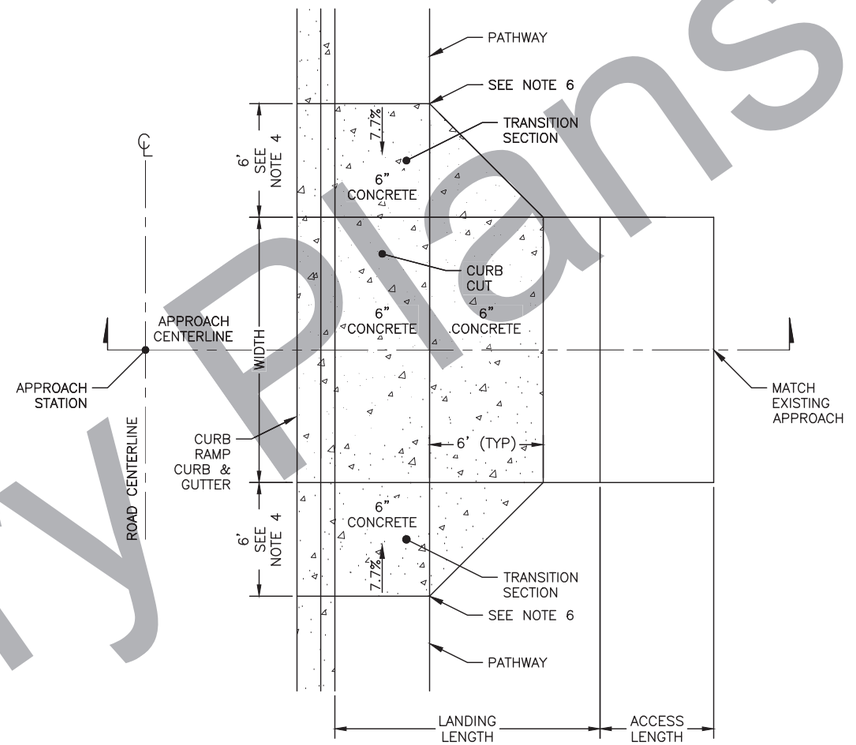
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	E5	E7



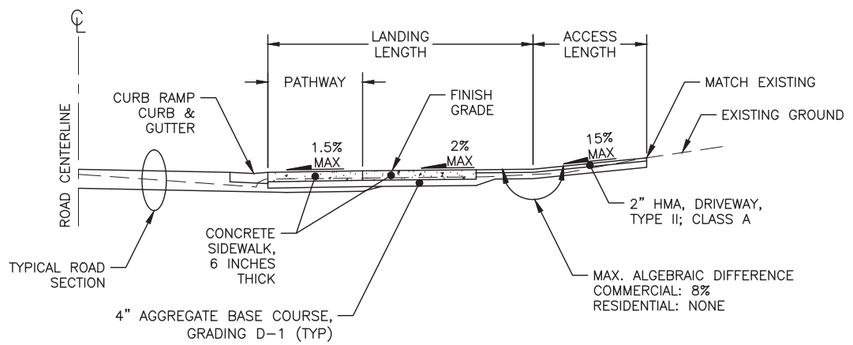
APPROACH PLAN



APPROACH SECTION



CURB CUT PLAN



CURB CUT SECTION

NOTES:

1. SEE ROADWAY TYPICAL SECTION FOR CURB AND GUTTER TYPE.
2. MATERIAL TO CONSTRUCT DRIVEWAYS IS PAID FOR UNDER THE RESPECTIVE PAY ITEM.
3. FOR CONCRETE DRIVEWAYS, USE 6"x6" 10 GAGE WELDED WIRE FABRIC (WWF). ALL STEEL SHALL BE SET ON SPACERS AND PULLED UP AS REQUIRED TO POSITION STEEL 1½" UP FROM BOTTOM OF SIDEWALK.
4. TRANSITION SECTION LENGTHS SHOWN IN PLANS ARE APPROXIMATE. CONSTRUCT TRANSITION SECTIONS AT A NOMINAL 7.7% GRADE OR FLATTER. SLOPES MAY BE INCREASED TO A MAXIMUM 8.3% WHERE SITE CONDITIONS WARRANT.
5. ACCESS LENGTH WITHIN ROW SHALL BE PAVED WITH 2" HMA, DRIVEWAY, TYPE II; CLASS A UNDERLAIN WITH 4" AGGREGATE BASE COURSE, GRADING D-1. ACCESS LENGTH BEYOND LIMITS OF ROW SHALL MATCH EXISTING DRIVEWAY SURFACE MATERIAL PER DRIVEWAY SUMMARY TABLE.
6. CONSTRUCT CONTRACTION JOINT WHEN ABUTTING NEW OR EXISTING CONCRETE SIDEWALK OR PATHWAY.

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ALASKA	0610004/Z618720000	2020	E6	E7

639.0001.0000 – APPROACH SUMMARY

ALIGNMENT	STATION	OFFSET	DRIVEWAY DETAIL	WIDTH (FT)	LANDING LENGTH (FT)	ACCESS LENGTH (FT)	RETURN RADIUS (FT)	APPROACH TYPE	REMARKS
A2	202+52	RT	APPROACH	24	30.0	3.0	20	COMMERCIAL	
A	320+62	LT	APPROACH	40	30.0	49.0	50	COMMERCIAL	WESTERN AVE. SEE SHEET F52
A	369+67	RT	APPROACH	28	30.0	20.0	40	COMMERCIAL	
D	506+63	LT	APPROACH	30	15.5	70.0	40	COMMERCIAL	BROADMOOR AVE. SEE SHEET F51
D	510+22	LT	CURB CUT	34	20.5	43.0	–	COMMERCIAL	LA QUINTA INN & ENTERPRISE RENT–A–CAR
D	511+61	LT	CURB CUT	24	20.5	43.0	–	COMMERCIAL	LA QUINTA INN
D	513+17	LT	APPROACH	30	30.5	75.0	40	COMMERCIAL	DISCOVERY DR. SEE SHEET F51
D	517+95	LT	CURB CUT	22	15.5	48.0	–	COMMERCIAL	KORNFEIND TRAINING CENTER
D	520+16	LT	APPROACH	26	30.5	75.0	50	COMMERCIAL	KING RD. SEE SHEET F51
D	529+15	LT	CURB CUT	24	25.5	53.0	–	COMMERCIAL	
D	532+42	LT	CURB CUT	26	20.5	33.0	–	COMMERCIAL	ARCTIC RENT–A–CAR
D	533+96	LT	CURB CUT	26	20.5	35.0	–	COMMERCIAL	
D	535+92	LT	CURB CUT	34	15.5	23.0	–	COMMERCIAL	AIRPORT GAS & OIL
D	537+45	LT	APPROACH	23	30.5	105.0	30 LT/50 RT	COMMERCIAL	ELLIOT LN. SEE SHEET F51
D	539+92	LT	CURB CUT	34	10.0	79.5	–	COMMERCIAL	
D	541+38	LT	CURB CUT	24	20.5	96.0	–	COMMERCIAL	
H	700+77	LT	APPROACH	32	SEE G SHEETS			COMMERCIAL	PIKE'S LANDING
H	701+20	LT	APPROACH	45	SEE G SHEETS			COMMERCIAL	PIKE'S WATERFRONT LODGE
H	702+30	LT	CURB CUT	34	10.0	13.5	–	COMMERCIAL	PIKE'S WATERFRONT LODGE
H	705+71	LT	CURB CUT	34	15.5	28.0	–	COMMERCIAL	PIKE'S WATERFRONT LODGE
H	707+55	LT	CURB CUT	34	15.5	28.0	–	COMMERCIAL	PIKE'S GREENHOUSE
H	708+90	LT	CURB CUT	22	10.0	103.5	–	COMMERCIAL	PIKE'S GREENHOUSE
H	709+22	LT	APPROACH	24	30.5	35.0	40	COMMERCIAL	DIGGER DR. SEE SHEET F52
H	715+93	RT	APPROACH	24	10.0	16.0	20	COMMERCIAL	GVEA POWER STATION
H	717+72	LT	APPROACH	26	30.5	35.0	50	COMMERCIAL	PIKE'S LANDING RD. SEE SHEET F51
H	718+95	LT	CURB CUT	16	10.0	33.5	–	RESIDENTIAL	
H	720+42	LT	CURB CUT	14	10.0	33.5	–	RESIDENTIAL	
H	721+11	LT	CURB CUT	14	10.0	18.5	–	RESIDENTIAL	
H	724+33	LT	APPROACH	24	17.5	58.0	40	COMMERCIAL	CRANBERRY ST. SEE SHEET F51
H	725+25	LT	CURB CUT	14	10.0	38.5	–	RESIDENTIAL	
H	728+88	RT	APPROACH	28	30.0	15.0	40	COMMERCIAL	JOURNEY CHRISTIAN CHURCH
H	728+94	LT	CURB CUT	14	10.0	33.5	–	RESIDENTIAL	
H	729+80	LT	CURB CUT	14	10.0	23.5	–	RESIDENTIAL	
H	730+90	LT	APPROACH	24	17.5	73.0	40	COMMERCIAL	ROSEBUD LN. SEE SHEET F51
H	732+18	LT	CURB CUT	14	10.0	13.5	–	RESIDENTIAL	
H	733+82	LT	CURB CUT	14	10.0	28.5	–	RESIDENTIAL	
H	734+90	RT	APPROACH	28	20.0	25.0	40	COMMERCIAL	JOURNEY CHRISTIAN CHURCH
H	736+22	LT	APPROACH	28	30.5	15.0	40	COMMERCIAL	STERNWHEELER TANANA CHIEF
H	737+94	LT	APPROACH	28	7.0	43.5	40	COMMERCIAL	STERNWHEELER TANANA CHIEF
H	741+05	LT	CURB CUT	24	43.5	115.0	–	COMMERCIAL	CHENA'S ALASKAN GRILL
H	744+72	LT	APPROACH	24	7.0	38.5	40	COMMERCIAL	RIVER'S EDGE RESORT

Preliminary Plans

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###

DETAILS

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522–1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872–E–Details–E6 Thu, Nov/05/20 01:47pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	E7	E7

639.0001.0000 – APPROACH SUMMARY (CONTINUED)

ALIGNMENT	STATION	OFFSET	DRIVEWAY DETAIL	WIDTH (FT)	LANDING LENGTH (FT)	ACCESS LENGTH (FT)	RETURN RADIUS (FT)	APPROACH TYPE	REMARKS
OA	801+46	RT	CURB CUT	11	10.0	40.5	–	COMMERCIAL	EVERTS AIR FUEL
OA	802+45	LT	APPROACH	30	SEE G SHEETS			COMMERCIAL	
OA	803+60	RT	APPROACH	22	SEE G SHEETS			COMMERCIAL	EVERTS AIR FUEL
OA	805+50	RT	APPROACH	24	20.0	2.0	20	COMMERCIAL	OMNI LOGISTICS
OA	806+94	RT	APPROACH	24	20.0	2.0	20	COMMERCIAL	OMNI LOGISTICS
OA	807+62	RT	APPROACH	34	15.0	0.0	15	COMMERCIAL	ARCTIC CIRCLE AIR
OA	808+69	RT	APPROACH	24	15.0	0.0	15	COMMERCIAL	ARCTIC CIRCLE AIR
OA	808+76	LT	APPROACH	24	20.0	2.0	20	COMMERCIAL	
OA	810+45	LT	APPROACH	24	20.0	2.0	20	COMMERCIAL	
OA	813+50	RT	APPROACH	24	20.0	2.0	20	COMMERCIAL	
OA	814+30	RT	APPROACH	28	20.0	2.0	20	COMMERCIAL	
OA	817+02	LT	APPROACH	24	20.0	34.0	30	COMMERCIAL	
OA	818+00	RT	APPROACH	22	SEE G SHEETS			COMMERCIAL	DALE RD
OA	818+00	RT	APPROACH	26	SEE G SHEETS			COMMERCIAL	
OA	821+70	LT	APPROACH	24	30.0	2.0	30	COMMERCIAL	
OA	831+12	RT	APPROACH	14	30.0	2.0	30	COMMERCIAL	FEDEX SHIP CENTER
OA	832+15	RT	APPROACH	32	30.0	2.0	20 LT/30 RT	COMMERCIAL	FEDEX SHIP CENTER
OA	832+91	RT	APPROACH	32	20.0	2.0	20	COMMERCIAL	ALASKA AEROFUEL
OA	836+77	RT	APPROACH	32	20.0	2.0	20	COMMERCIAL	
OA	837+43	LT	APPROACH	60	SEE G SHEETS			COMMERCIAL	
OA	839+77	RT	APPROACH	26	20.0	2.0	20	COMMERCIAL	
OA	848+17	LT	APPROACH	26	25.0	1.0	25	COMMERCIAL	
OA	849+72	RT	APPROACH	62	15.0	4.0	40	COMMERCIAL	
OA	855+79	LT	APPROACH	20	40.0	3.0	40 LT/20 RT	COMMERCIAL	
TOTAL	65	EACH							

Preliminary Plans

DETAILS

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-E-Details-E7 Thu, Nov/05/20 01:47pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F1	F54

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-Keymap-F1 Thu, Nov/05/20 01:47pm

AIRPORT WAY
WESTERN AVENUE
BROADMOOR AVENUE
DISCOVERY DRIVE
KING ROAD
ELLIOT LANE
CHENA RIVER
PIKES LANDING ROAD
CRANBERRY STREET
ROSEBUD LANE
PARKS HIGHWAY
HOSELTON ROAD
BOAT STREET
WEIN LAKE ROAD
DALE ROAD
PATHWAY SPUR
PATHWAY
OLD AIRPORT ROAD

F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 F13 F14 F15 F16 F17 F18 F19 F20
F21 F22 F23 F24 F25 F26 F27 F28 F29 F30 F31 F32
F33 F34 F35 F36 F37 F38 F39 F40 F41 F42 F43 F44 F45 F46 F47 F48 F49 F50

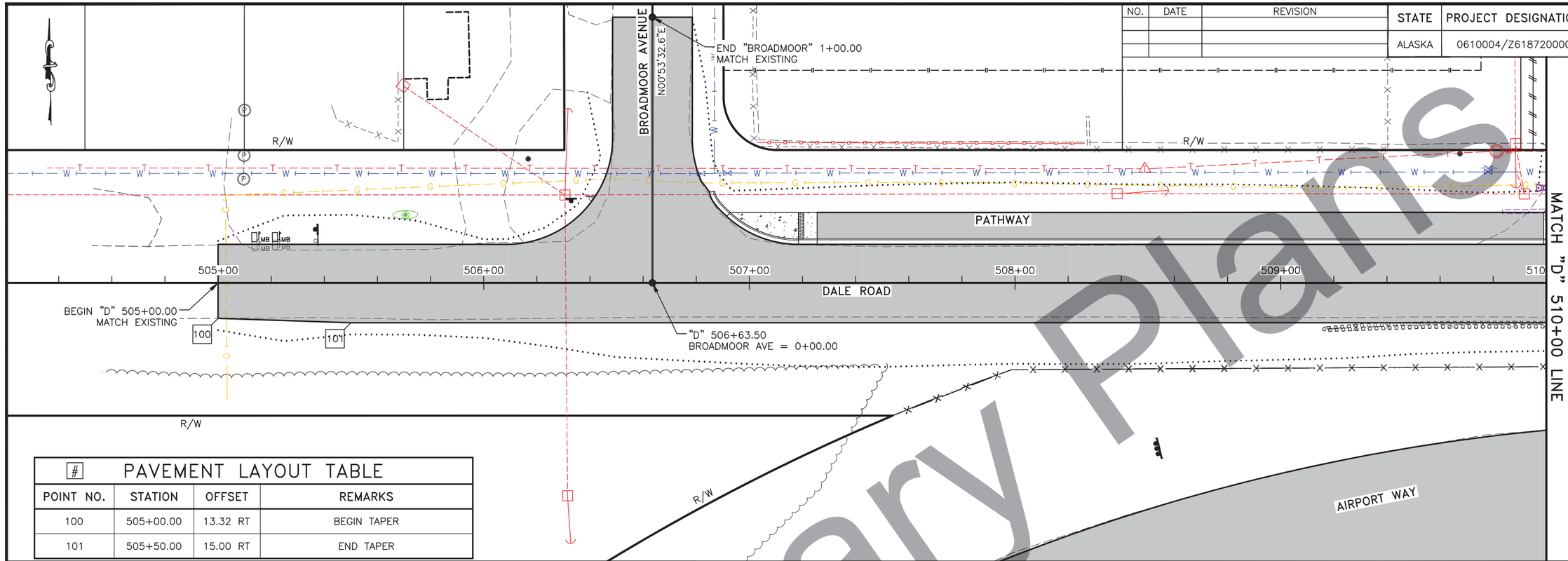
100+00 110+00 200+00 210+00 215+50 307+00 310+00 320+00 330+00 340+00 350+00 360+00 370+00 380+00 382+60 400+00 410+00 415+15 500+00 510+00 520+00 530+00 543+94 600+00 611+40 620+00 625+00 700+00 710+00 720+00 730+00 740+00 748+00 800+00 810+00 820+00 830+00 840+00 850+00 858+50

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER

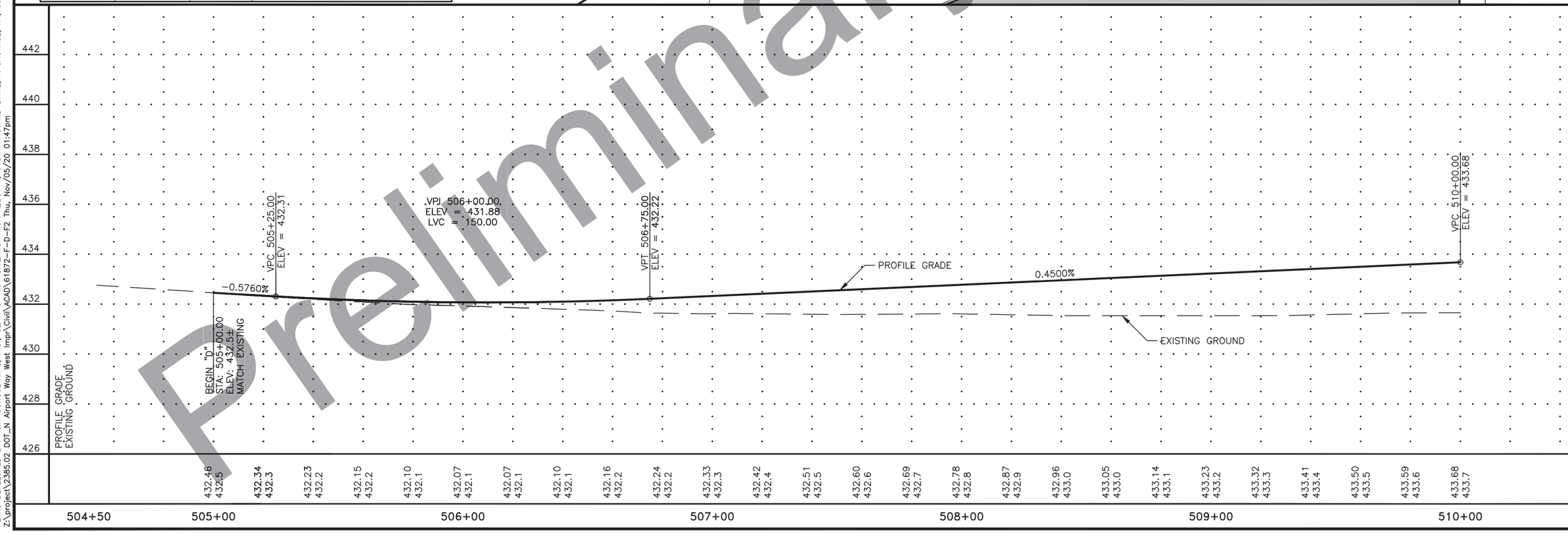
PLAN & PROFILE KEYMAP

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F2	F54



#	PAVEMENT LAYOUT TABLE		
POINT NO.	STATION	OFFSET	REMARKS
100	505+00.00	13.32 RT	BEGIN TAPER
101	505+50.00	15.00 RT	END TAPER



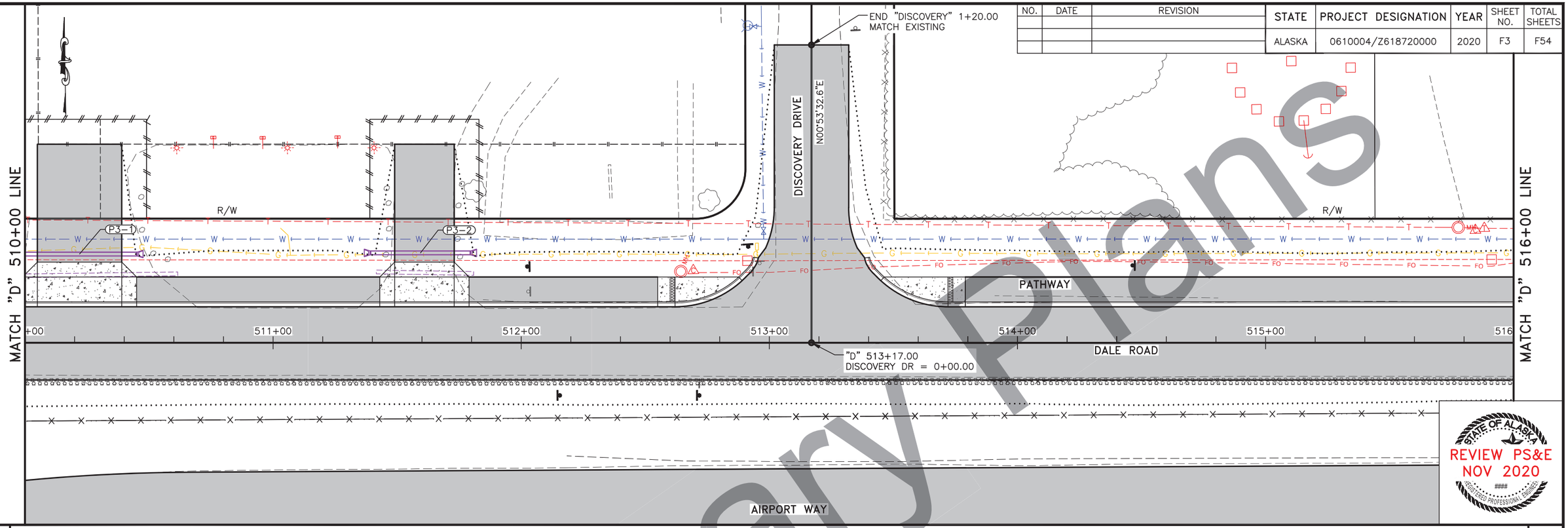
Preliminary Plans

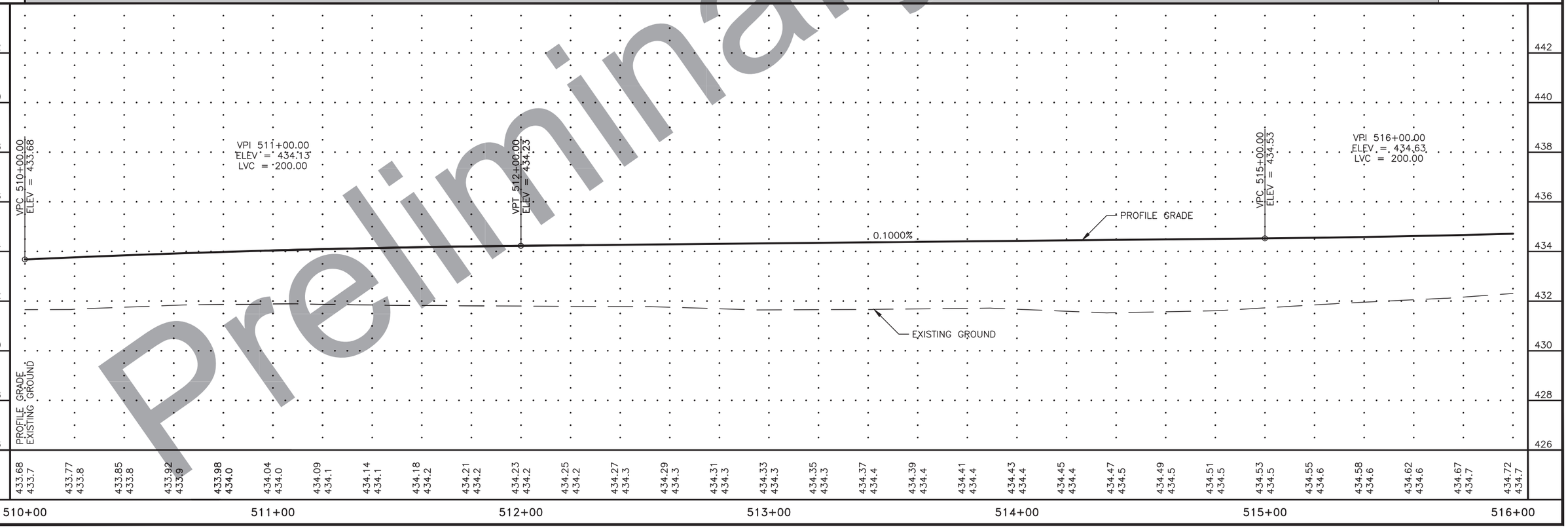
STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-D-F2 Thu, Nov/05/20 01:47pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F3	F54





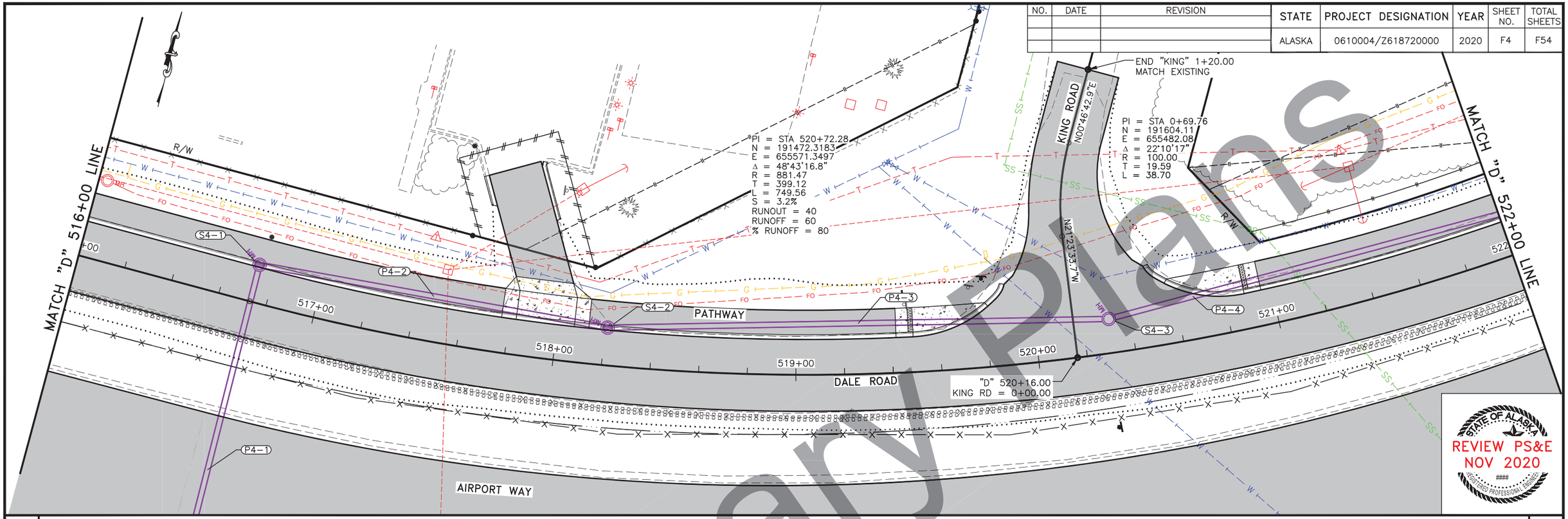
STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER
####

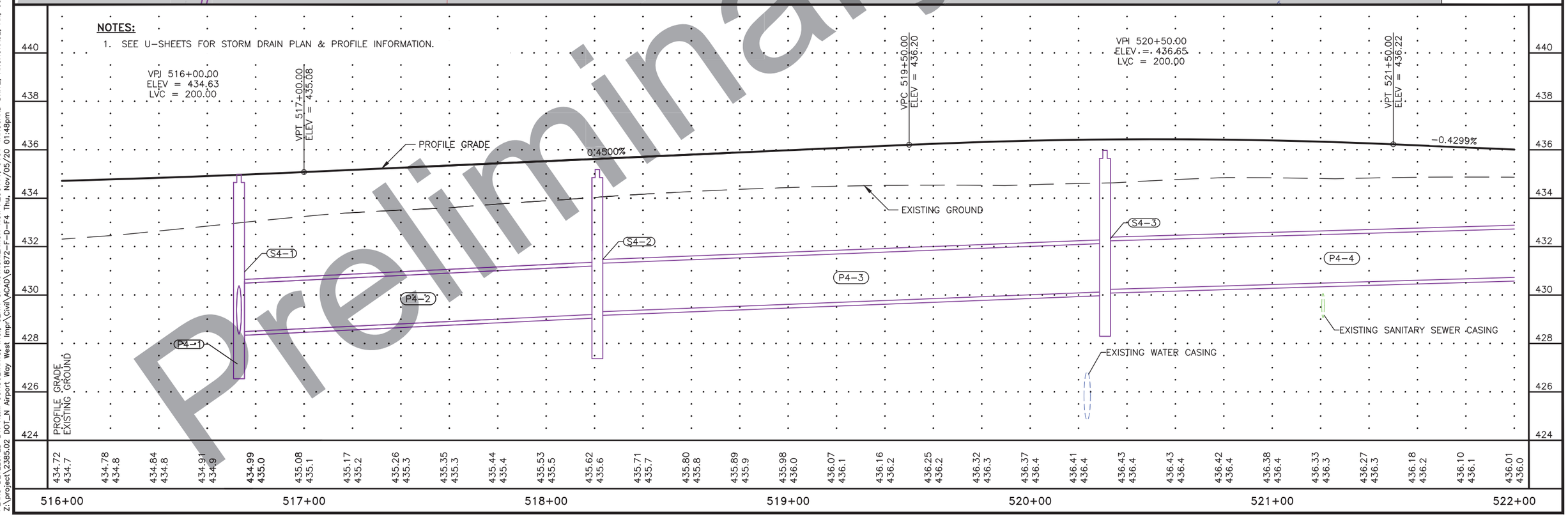
Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-D-F3 Thu, Nov/05/20 01:48pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F4	F54





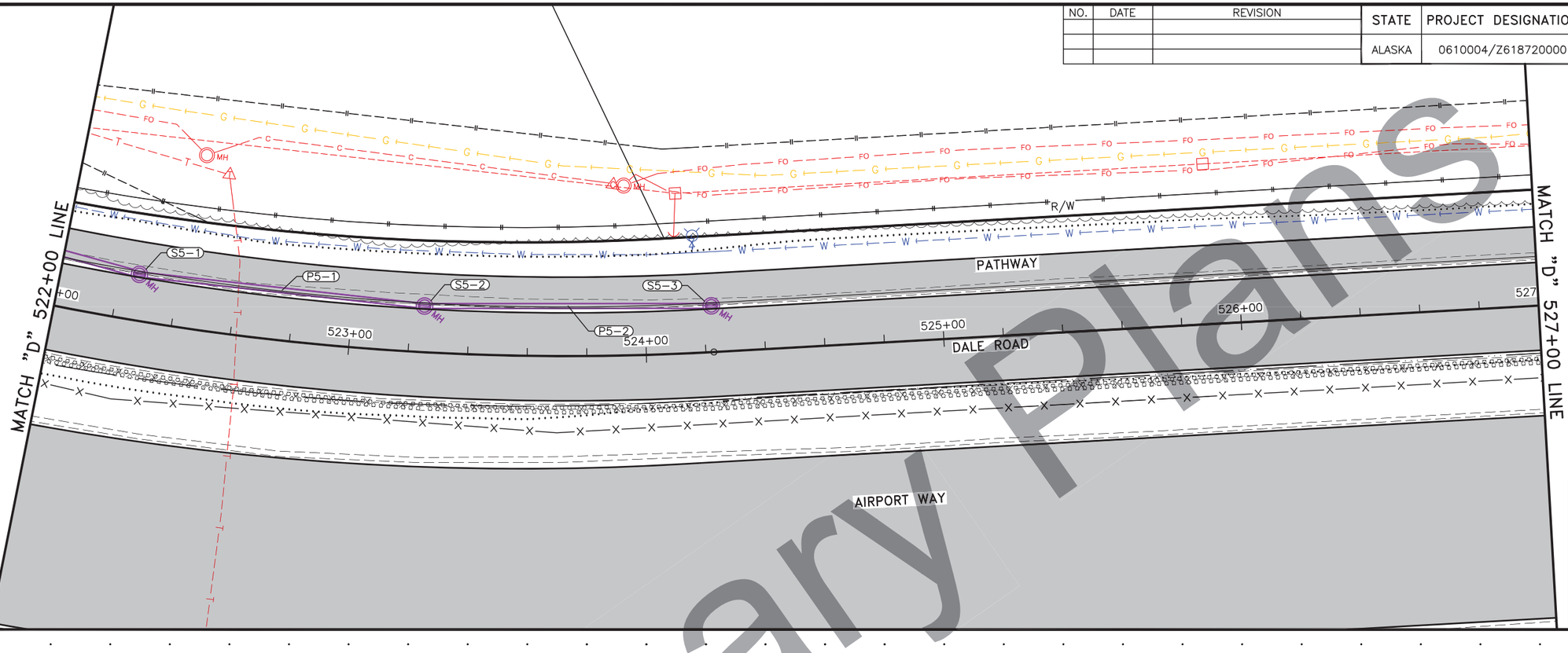
STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-D-F4 Thu, Nov/05/20 01:48pm

NO.	DATE	REVISION

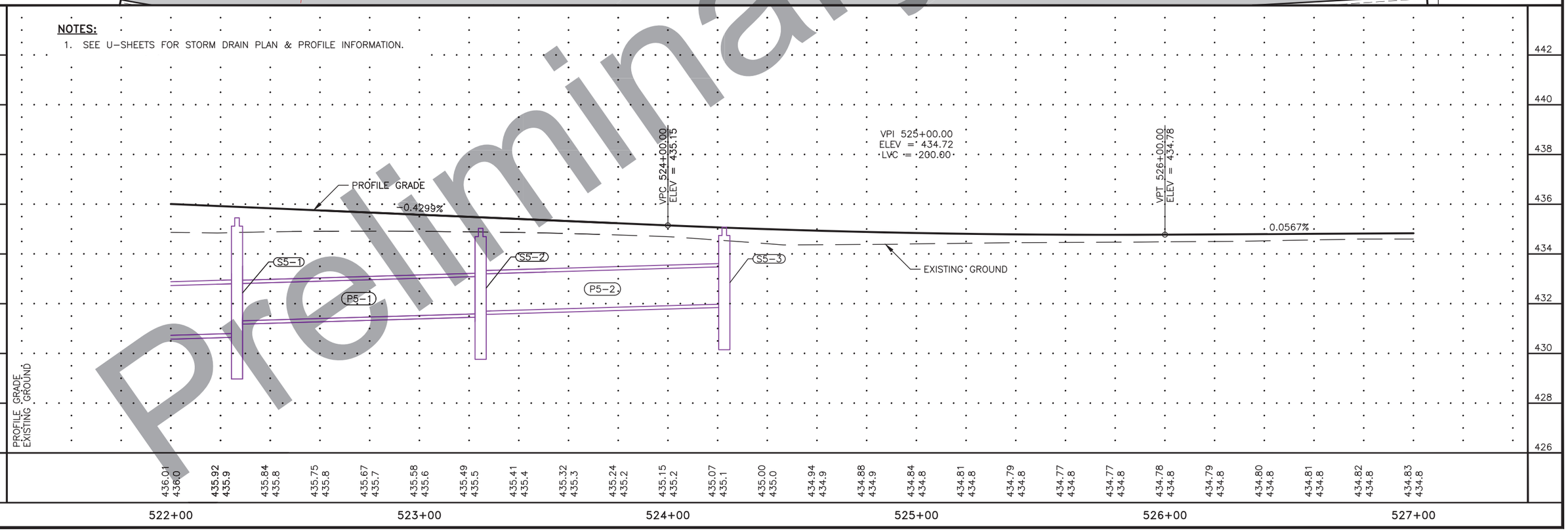
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F5	F54



Preliminary Plans

NOTES:

1. SEE U-SHEETS FOR STORM DRAIN PLAN & PROFILE INFORMATION.

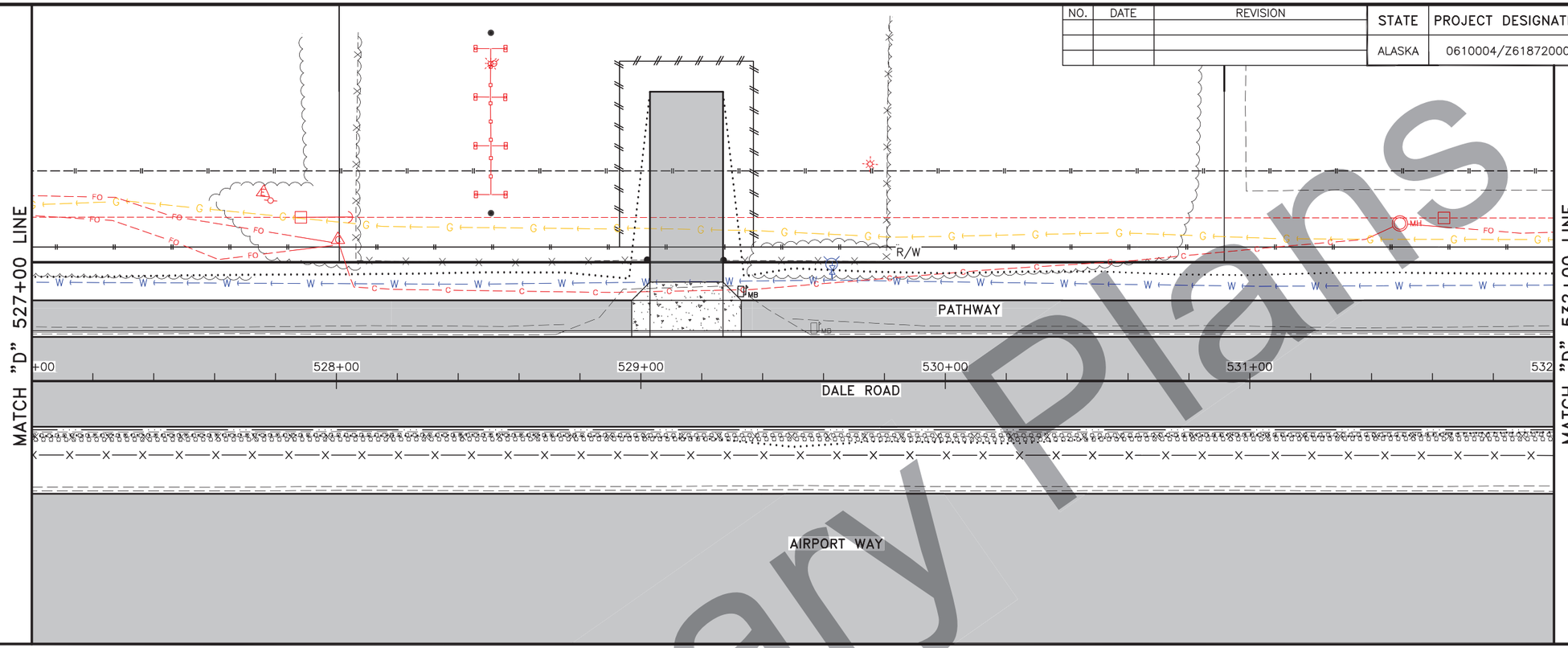


STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

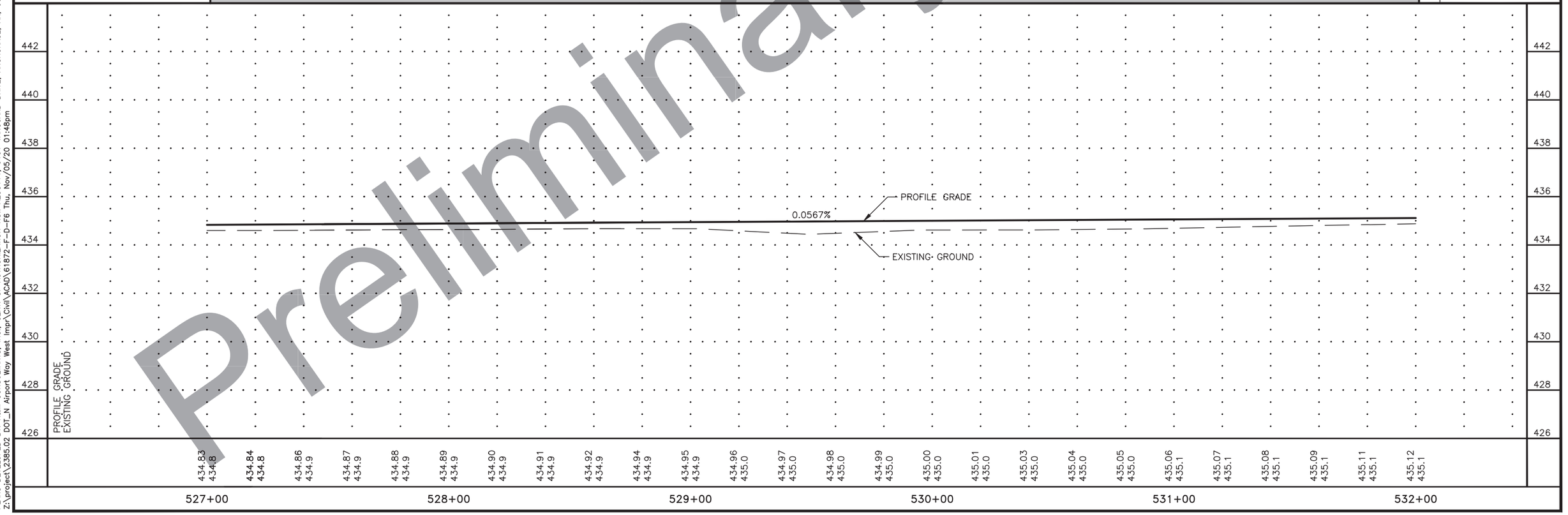
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-D-F5 Thu, Nov/05/20 01:48pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F6	F54



STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

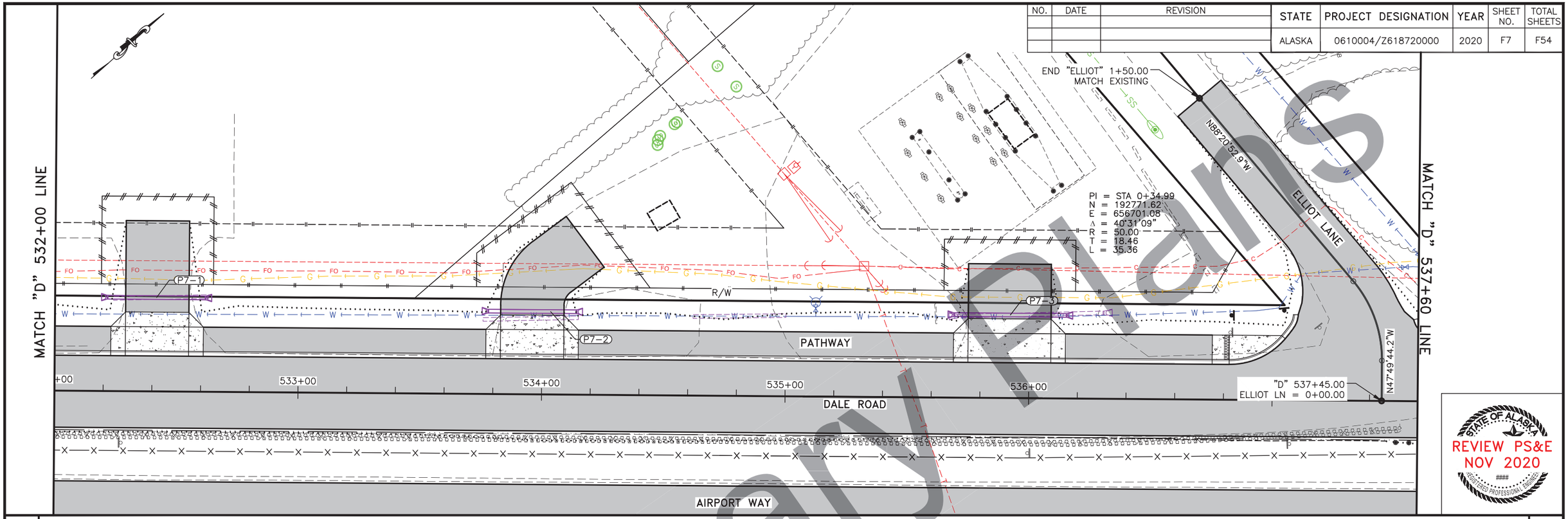


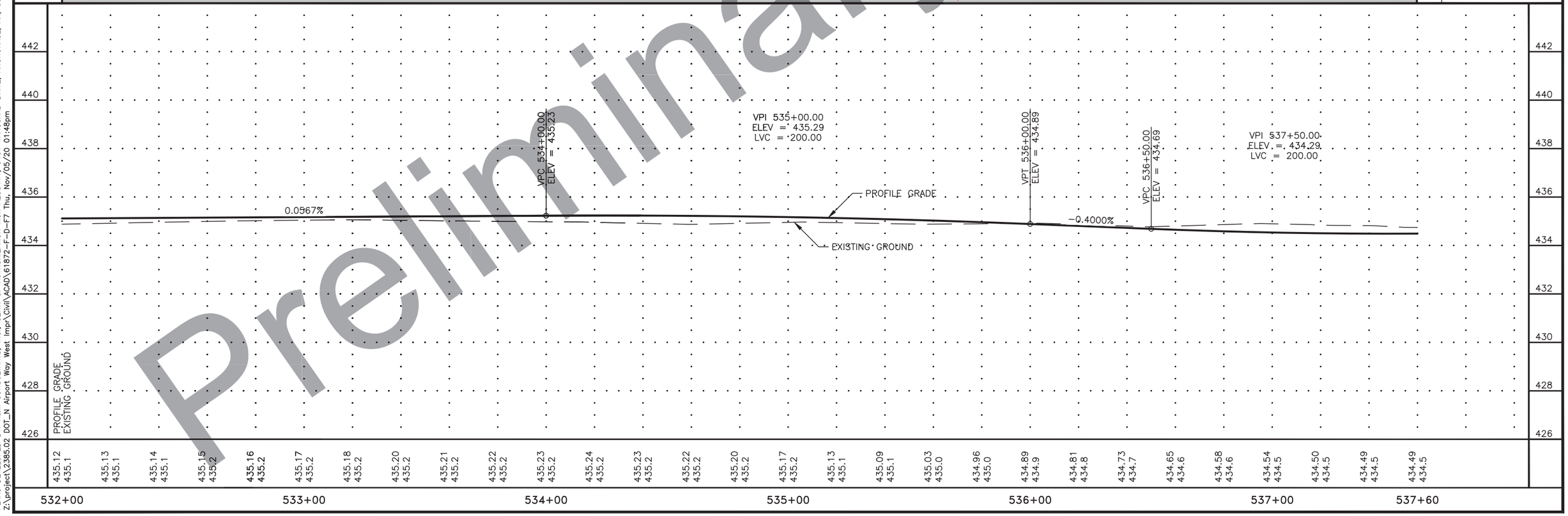
Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F7	F54





Preliminary Plans

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\AGAD\61872-F-D-F7 Thu, Nov/05/20 01:48pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F8	F54

PI = STA 539+13.53
N = 192873.0370
E = 656840.1552
Δ = 19°13'51.5"
R = 750.00
T = 127.06
L = 251.73
S = 2.00%
RUNOUT = 40
RUNOFF = 40
% RUNOFF = 80

R/W

MATCH "D" 537+60 LINE

538+00

539+00

DALE ROAD

540+00

541+00

PATHWAY

542+00

AIRPORT WAY

END "D" 542+29.98
MATCH AIRPORT WAY

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

NOTES:

1. SEE G-SHEETS FOR ADDITIONAL DETAILS.

VPI 537+50.00
ELEV = 434.29
LVC = 200.00

VPT 538+50.00
ELEV = 434.69

VPC 539+60.00
ELEV = 435.13

VPI 540+60.00
ELEV = 435.53
LVC = 200.00

VPT 541+60.00
ELEV = 435.58

END "D"
STA: 542+29.98
ELEV: 435.6±
MATCH AIRPORT WAY

PROFILE GRADE

0.4000%

0.0517%

EXISTING GROUND

EXISTING WATER

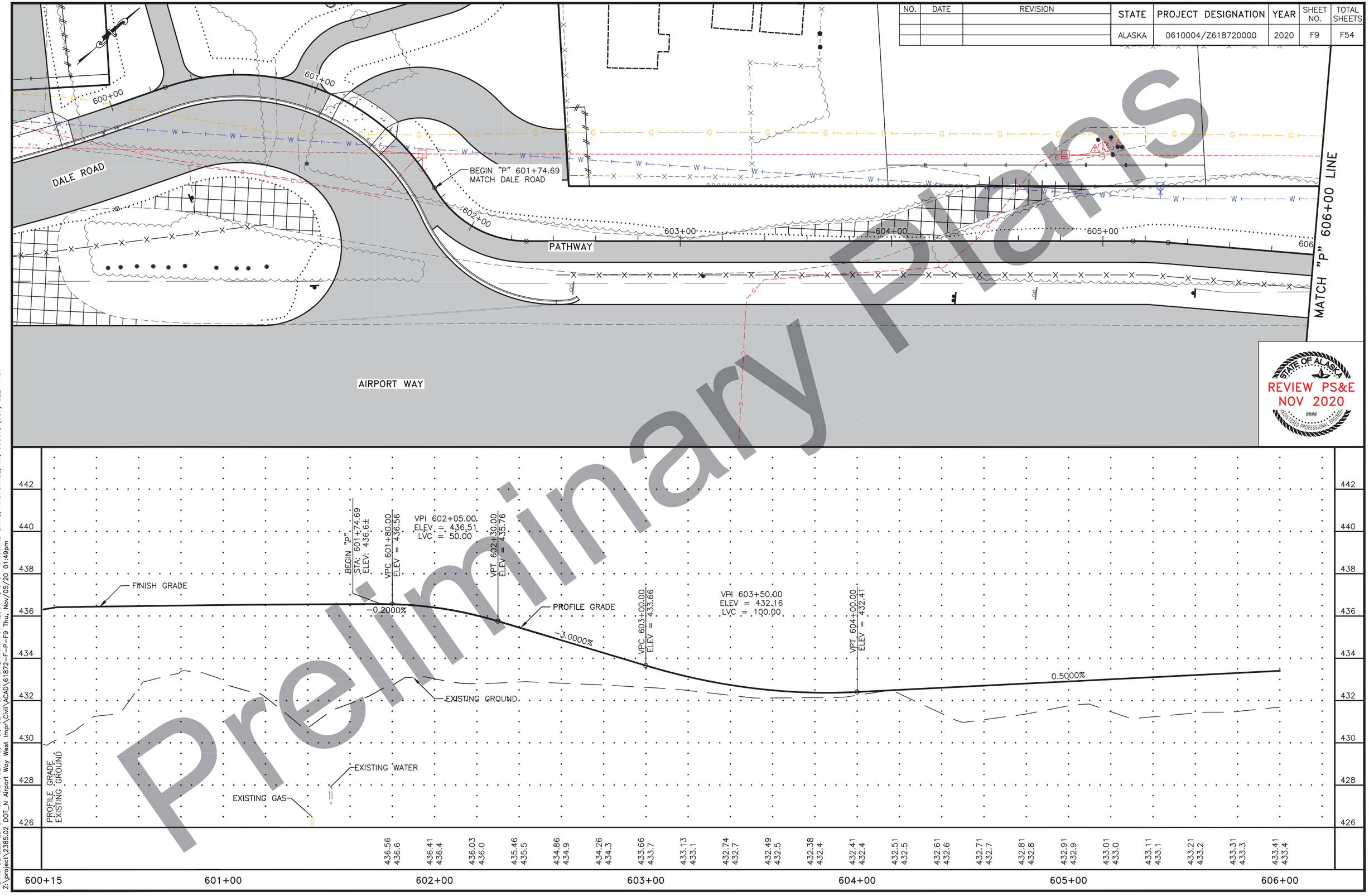
EXISTING WATER

PROFILE GRADE
EXISTING GROUND

| | | |

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F9	F54



STATE OF ALASKA
REVIEW PS&E
NOV 2020
####
REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-P-F9 Thu, Nov/05/20 01:49pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F10	F54

MATCH "P" 606+00 LINE

606+00

607+00

608+00

609+00

610+00

611+00

611+40

END "P" 611+34.18
MATCH HOSELTON ROAD

HOSELTON ROAD

PATHWAY

AIRPORT WAY

P10-1

MH

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER
####

Preliminary Plans

VPC 606+70.00
ELEV = 433.76

VPI 607+20.00
ELEV = 434.01
LVC = 100.00

VPT 607+70.00
ELEV = 433.73

VPC 608+50.00
ELEV = 433.29

VPI 609+00.00
ELEV = 433.02
LVC = 100.00

VPT 609+50.00
ELEV = 433.24

END "P"
STA: 611+34.18
±ELEV: 434.1±

PROFILE GRADE

0.5000%

-0.5500%

0.4500%

EXISTING GROUND

EXISTING SANITARY SEWER

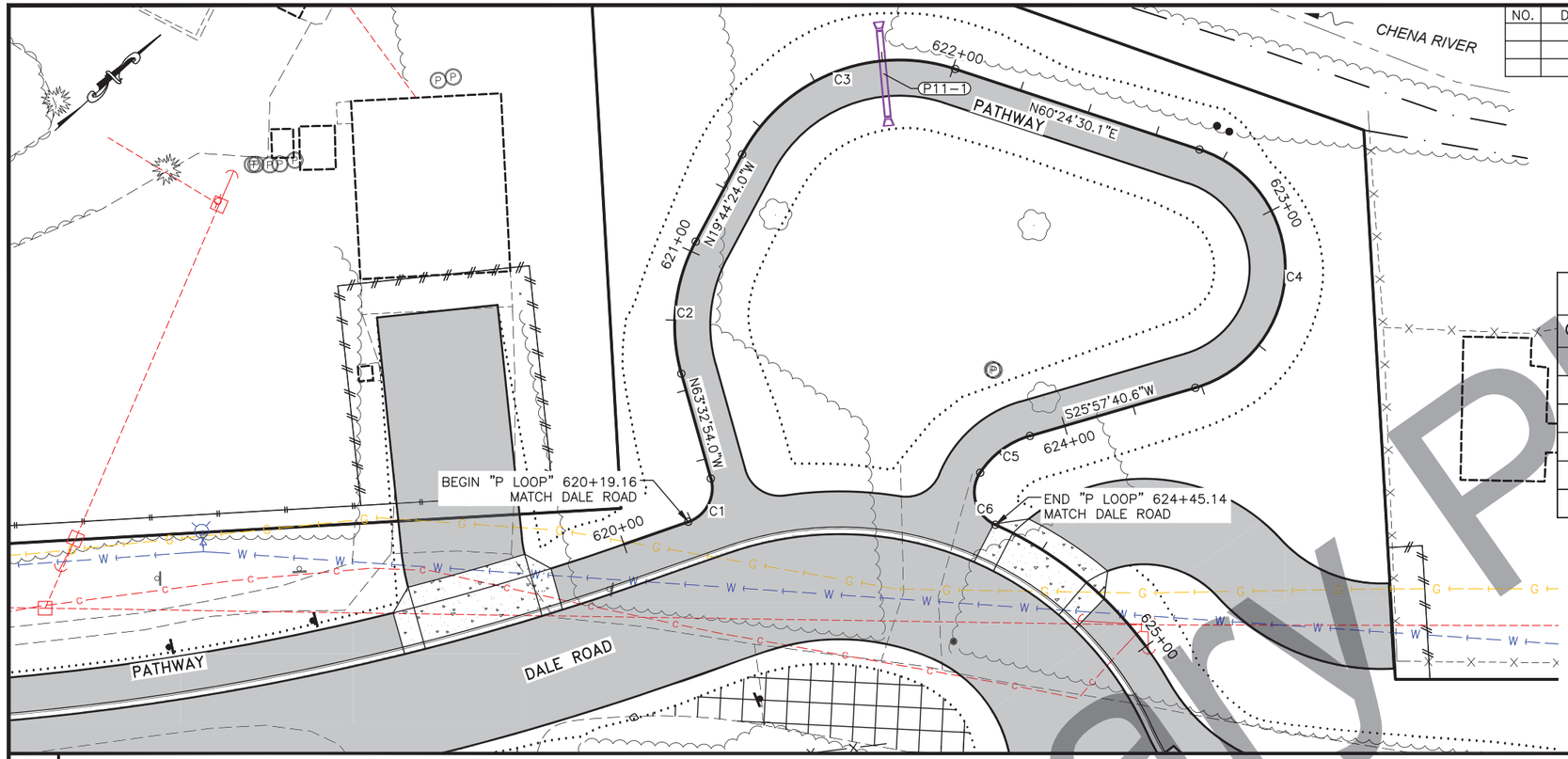
PROFILE GRADE
EXISTING GROUND

606+00	607+00	608+00	609+00	610+00	611+00	612+00
433.41 / 431.7	433.51 / 431.6	433.61 / 431.7	433.71 / 432.0	433.80 / 432.2	433.86 / 432.2	433.88 / 430.9
433.85 / 432.4	433.78 / 432.3	433.68 / 432.3	433.57 / 432.2	433.46 / 432.1	433.35 / 432.3	433.24 / 432.3
433.17 / 432.5	433.14 / 433.0	433.15 / 433.0	433.20 / 433.0	433.29 / 433.0	433.38 / 433.0	433.47 / 433.0
433.56 / 433.0	433.65 / 433.1	433.74 / 433.3	433.83 / 433.4	433.92 / 433.7	434.01 / 433.9	

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-P-F10 Thu, Nov/05/20 01:49pm

NO.	DATE	REVISION

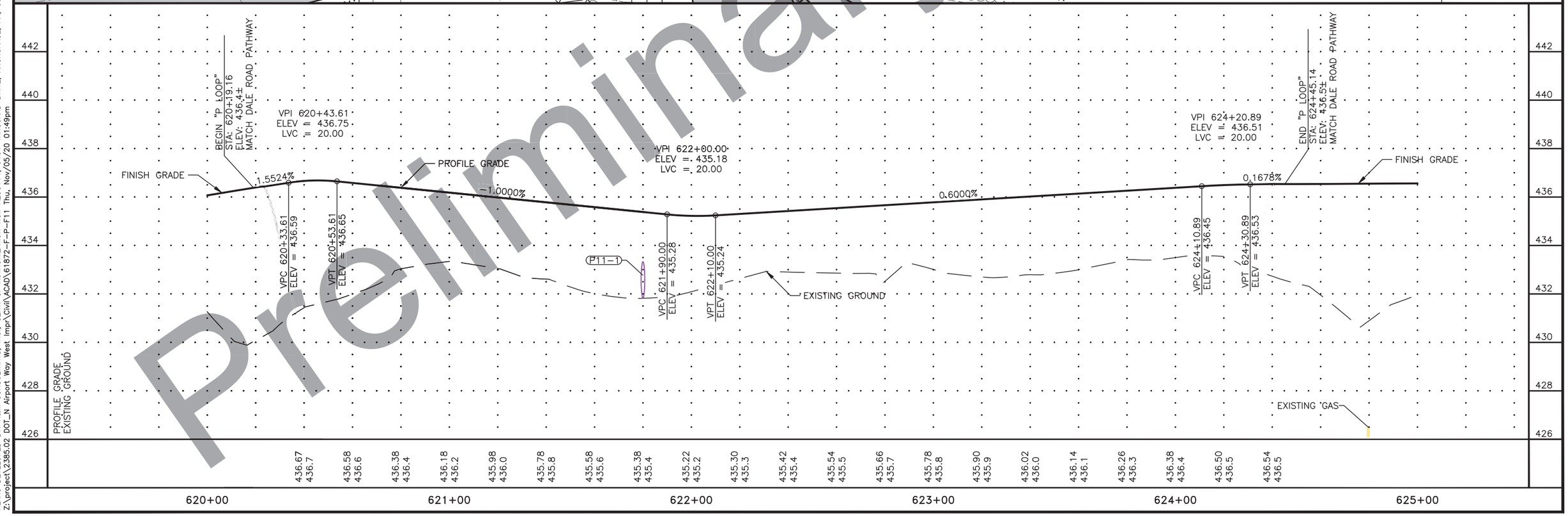
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F11	F54



PATHWAY LOOP ALIGNMENT DATA

CURVE #	RADIUS	LENGTH	Δ	T	PC	PT
C1	10	15.10	086°29'18"	13.70	620+19.2	620+34.3
C2	50	38.23	043°48'30"	37.31	620+64.8	621+03.0
C3	50	69.94	080°08'54"	64.38	621+30.8	622+00.7
C4	35	88.91	145°33'10"	66.86	622+72.9	623+61.8
C5	25	17.75	040°40'19"	17.38	624+10.1	624+27.9
C6	10	17.26	098°54'58"	15.20	624+27.9	624+45.1

STATE OF ALASKA
REVIEW PS&E
NOV 2020
####
REGISTERED PROFESSIONAL ENGINEER

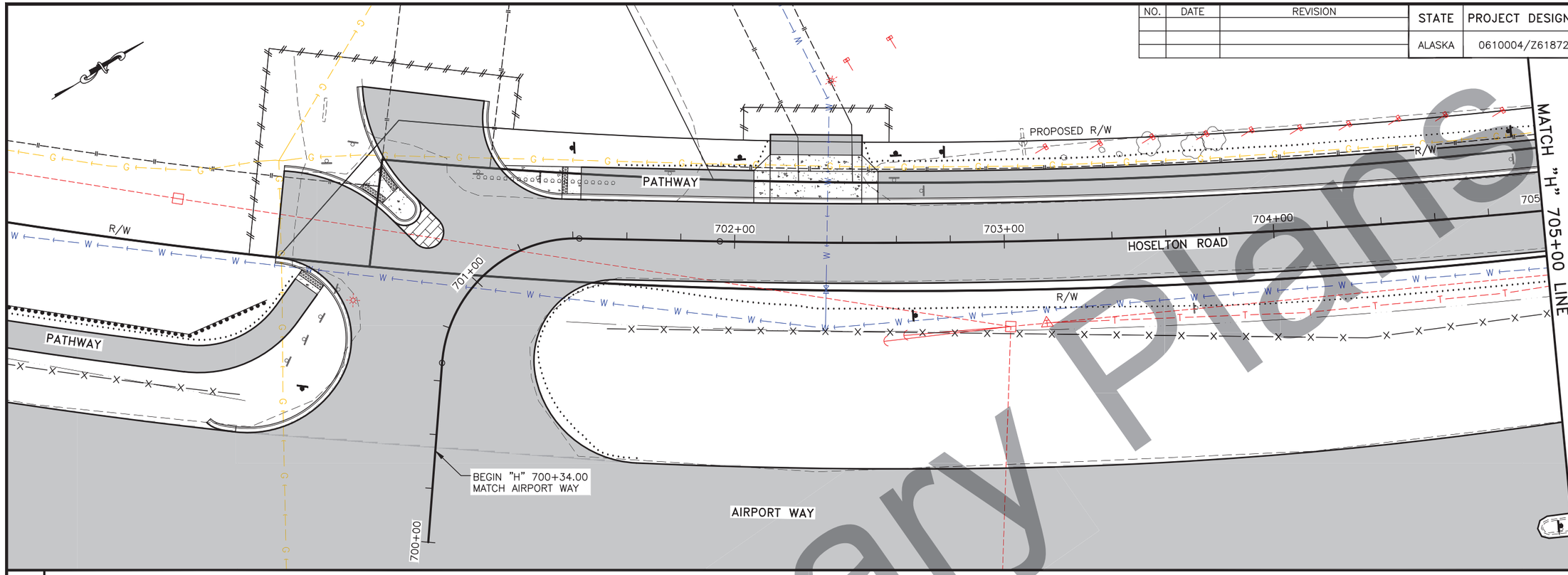


Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-P-F11 Thu, Nov/05/20 01:49pm

NO.	DATE	REVISION

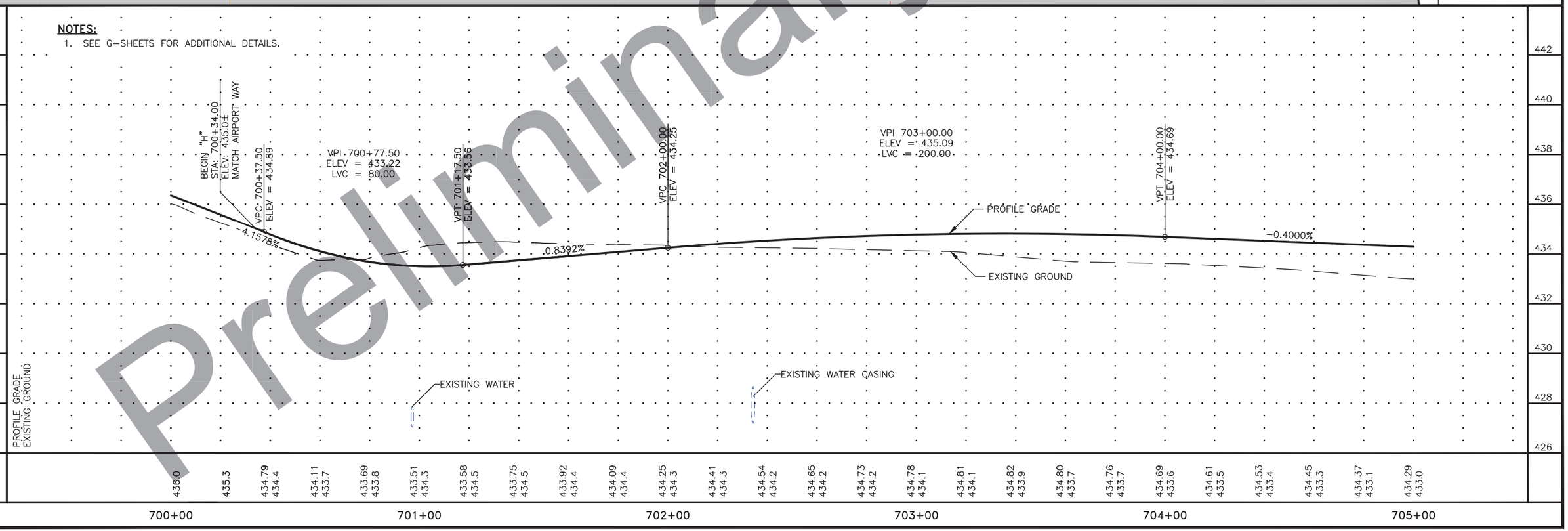
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F12	F54



STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER

NOTES:

1. SEE G-SHEETS FOR ADDITIONAL DETAILS.



Preliminary Plans

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-H-F12 Thu, Nov/05/20 01:49pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F13	F54

PAVEMENT LAYOUT TABLE

POINT NO.	STATION	OFFSET	REMARKS
200	707+27.50	15.00 RT	BEGIN TAPER
201	707+37.50	19.50 RT	END TAPER
202	707+49.50	19.50 RT	BEGIN TAPER
203	707+59.50	15.00 RT	END TAPER

MATCH "H" 705+00 LINE

MATCH "H" 711+00 LINE

PROPOSED R/W

R/W

PATHWAY

HOSELTON ROAD

DIGGER DRIVE

N83°55'18"W

S6°52'09"W

N6°52'09"E

P13-1

P13-2

P13-3

P13-4

P13-5

S13-1

S13-2

200

201

202

203

BEGIN SPECIAL DITCH
STA: 705+27.50
OFF: 30.76 RT
ELEV: 432.20

END SPECIAL DITCH
STA: 706+15.00
OFF: 30.42 RT
ELEV: 430.55

BEGIN SPECIAL DITCH
STA: 707+80.00
OFF: 30.85 LT
ELEV: 432.23

END SPECIAL DITCH
STA: 708+66.64
OFF: 35.69 LT
ELEV: 430.28

BEGIN SPECIAL DITCH
STA: 708+66.76
OFF: 34.14 RT
ELEV: 430.08

END SPECIAL DITCH
STA: 709+12.50
OFF: 35.71 RT
ELEV: 429.95

END "DIGGER" 1+00.00
MATCH EXISTING

"H" 709+72.00
DIGGER DR = 0+00.00

PI "DIGGER" STA 0+41.78
N=194631.6952
E=657996.5900
PC "DIGGER" STA 0+26.76
PT "DIGGER" STA 0+56.58
Δ=17°04'53"
R=100.00
T=15.02
L=29.81

705+00 706+00 707+00 708+00 709+00 710+00 711+00

1+00

0+00

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

NOTES:

1. SEE U-SHEETS FOR STORM DRAIN PLAN & PROFILE INFORMATION.

VPC 706+20.00
ELEV = 433.81

VPI 707+20.00
ELEV = 433.41
LVC = 200.00

VPT 708+20.00
ELEV = 434.01

VPC 709+00.00
ELEV = 434.49

VPI 710+00.00
ELEV = 435.09
LVC = 200.00

VPT 711+00.00
ELEV = 434.69

-0.4000%

0.6000%

PROFILE GRADE

EXISTING GROUND

EXISTING WATER CASING

EXISTING STORM DRAIN

EXISTING SANITARY SEWER

EXISTING WATER CASING

EXISTING WATER CASING

440 438 436 434 432 430 428 426 424

PROFILE GRADE
EXISTING GROUND

434.29 433.0 | 434.21 432.9 | 434.13 432.8 | 434.05 432.8 | 433.97 432.7 | 433.89 432.7 | 433.81 432.6 | 433.74 432.6 | 433.69 432.6 | 433.66 432.7 | 433.65 432.8 | 433.66 432.8 | 433.69 432.9 | 433.74 432.9 | 433.81 432.9 | 433.90 432.9 | 434.01 433.0 | 434.13 433.1 | 434.25 433.2 | 434.37 433.4 | 434.49 433.5 | 434.60 433.5 | 434.69 433.5 | 434.76 433.5 | 434.81 433.5 | 434.84 433.4 | 434.85 433.3 | 434.84 433.4 | 434.81 433.5 | 434.76 433.5 | 434.69 433.6

705+00 706+00 707+00 708+00 709+00 710+00 711+00

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-H-F13 Thu, Nov/05/20 01:50pm

NO.	DATE	REVISION

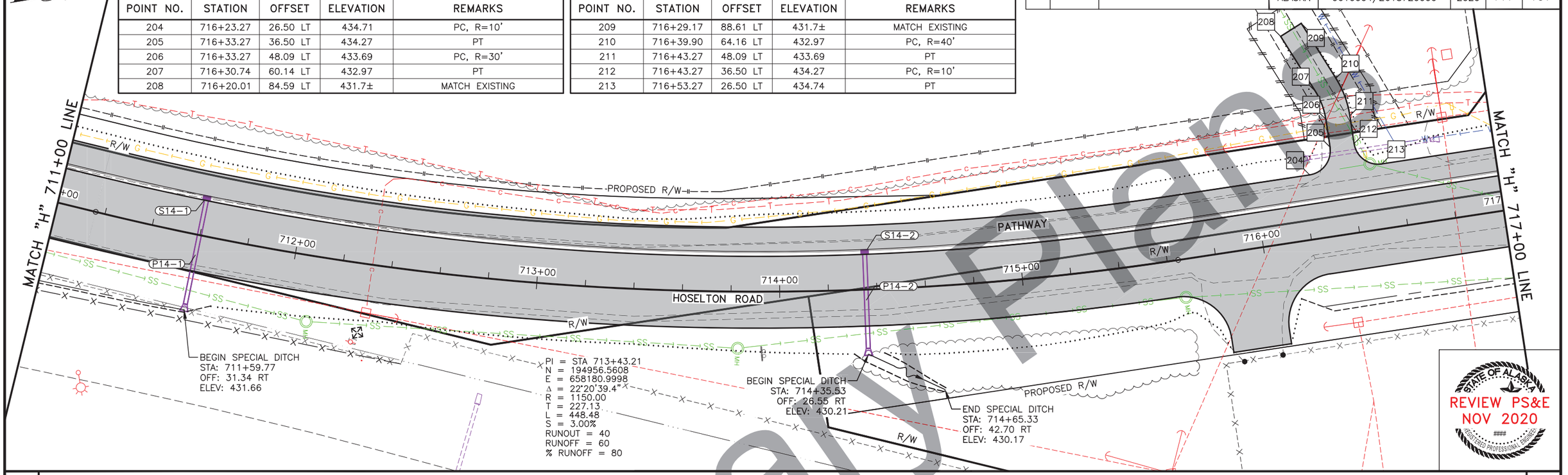
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F14	F54

PAVEMENT LAYOUT TABLE

POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
204	716+23.27	26.50 LT	434.71	PC, R=10'
205	716+33.27	36.50 LT	434.27	PT
206	716+33.27	48.09 LT	433.69	PC, R=30'
207	716+30.74	60.14 LT	432.97	PT
208	716+20.01	84.59 LT	431.7±	MATCH EXISTING

PAVEMENT LAYOUT TABLE

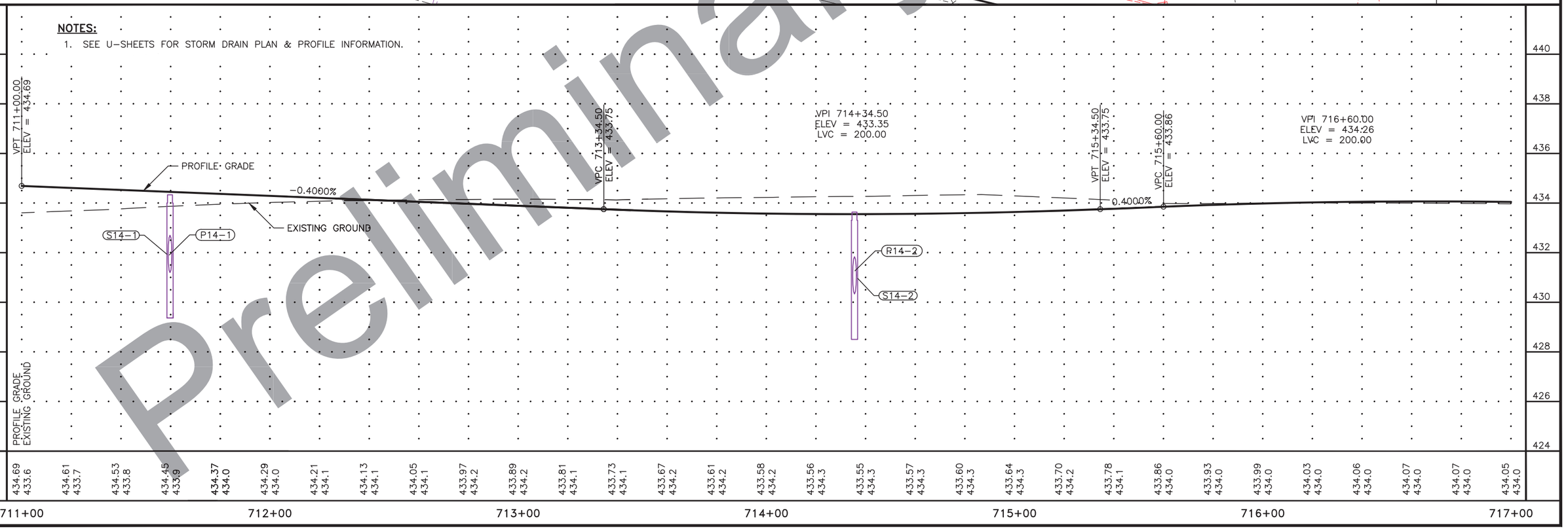
POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
209	716+29.17	88.61 LT	431.7±	MATCH EXISTING
210	716+39.90	64.16 LT	432.97	PC, R=40'
211	716+43.27	48.09 LT	433.69	PT
212	716+43.27	36.50 LT	434.27	PC, R=10'
213	716+53.27	26.50 LT	434.74	PT



STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER

NOTES:

1. SEE U-SHEETS FOR STORM DRAIN PLAN & PROFILE INFORMATION.



Preliminary Plan

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\Z385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-H-F14 Thu, Nov/05/20 01:50pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F15	F54

END PIKES LANDING 0+80
MATCH EXISTING

PIKES LANDING ROAD

N89°11'05.3"W

R/W

MATCH "H" 717+00 LINE

MATCH "H" 723+00 LINE

P15-1

P15-2

P15-3

P15-4

MB

PATHWAY

+00 718+00 719+00 720+00 721+00 722+00 723

HOSELTON ROAD

"H" 717+72.00
PIKES LANDING RD = 0+00.00

PROPOSED R/W

R/W

R/W

R/W

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

438 436 434 432 430 428 426 424 422

VPI 716+60.00
ELEV = 434.26
LVC = 200.00

VPT 717+60.00
ELEV = 433.91

-0.3506%

PROFILE GRADE

VPC 719+50.00
ELEV = 433.24

EXISTING GROUND

VPI 720+50.00
ELEV = 432.89
LVC = 200.00

VPT 721+50.00
ELEV = 433.04

0.1491%

P15-1

EXISTING GAS

EXISTING WATER CASING

PROFILE GRADE
EXISTING GROUND

EXISTING SANITARY SEWER

434.05 434.0 | 434.02 433.9 | 433.97 433.9 | 433.91 433.9 | 433.84 433.9 | 433.77 434.0 | 433.70 433.9 | 433.63 433.8 | 433.56 433.6 | 433.49 433.5 | 433.41 433.4 | 433.34 433.3 | 433.27 433.1 | 433.21 433.0 | 433.15 433.0 | 433.10 432.9 | 433.06 432.9 | 433.03 432.9 | 433.01 432.9 | 433.00 432.9 | 432.99 433.0 | 433.00 433.0 | 433.02 433.0 | 433.05 433.1 | 433.08 433.1 | 433.11 433.1 | 433.14 433.1 | 433.17 433.1 | 433.20 433.1 | 433.23 433.1 | 433.26 433.1

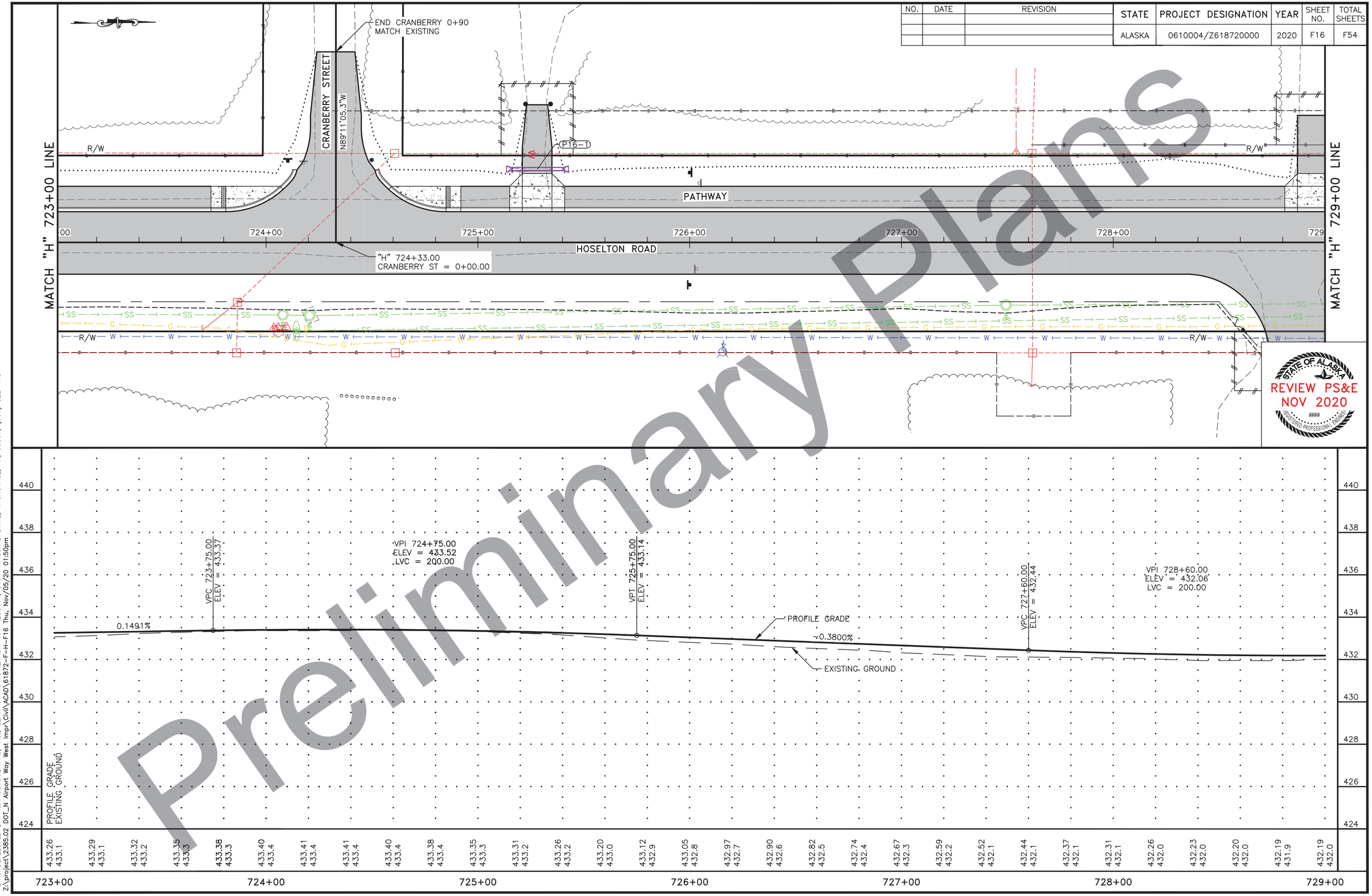
717+00 718+00 719+00 720+00 721+00 722+00 723+00

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-H-F15 Thu, Nov/05/20 01:50pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F16	F54



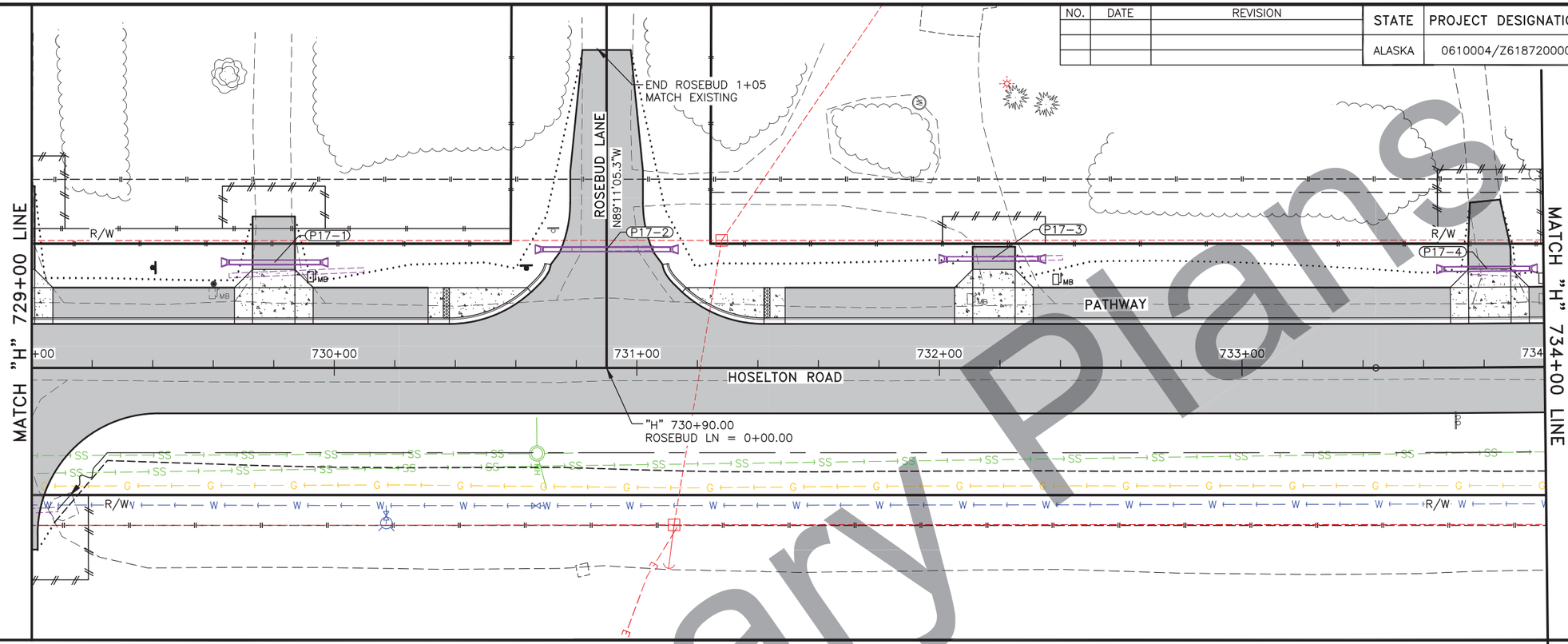
STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

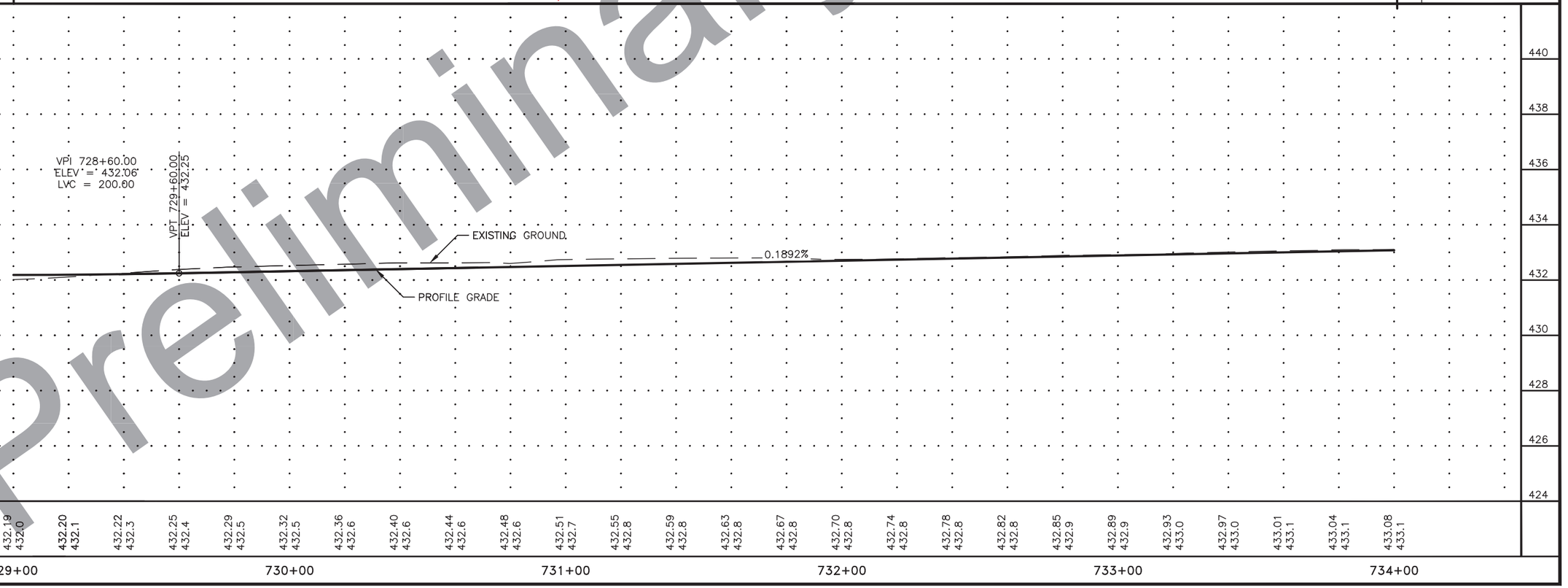
Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-H-F16 Thu, Nov/05/20 01:50pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F17	F54





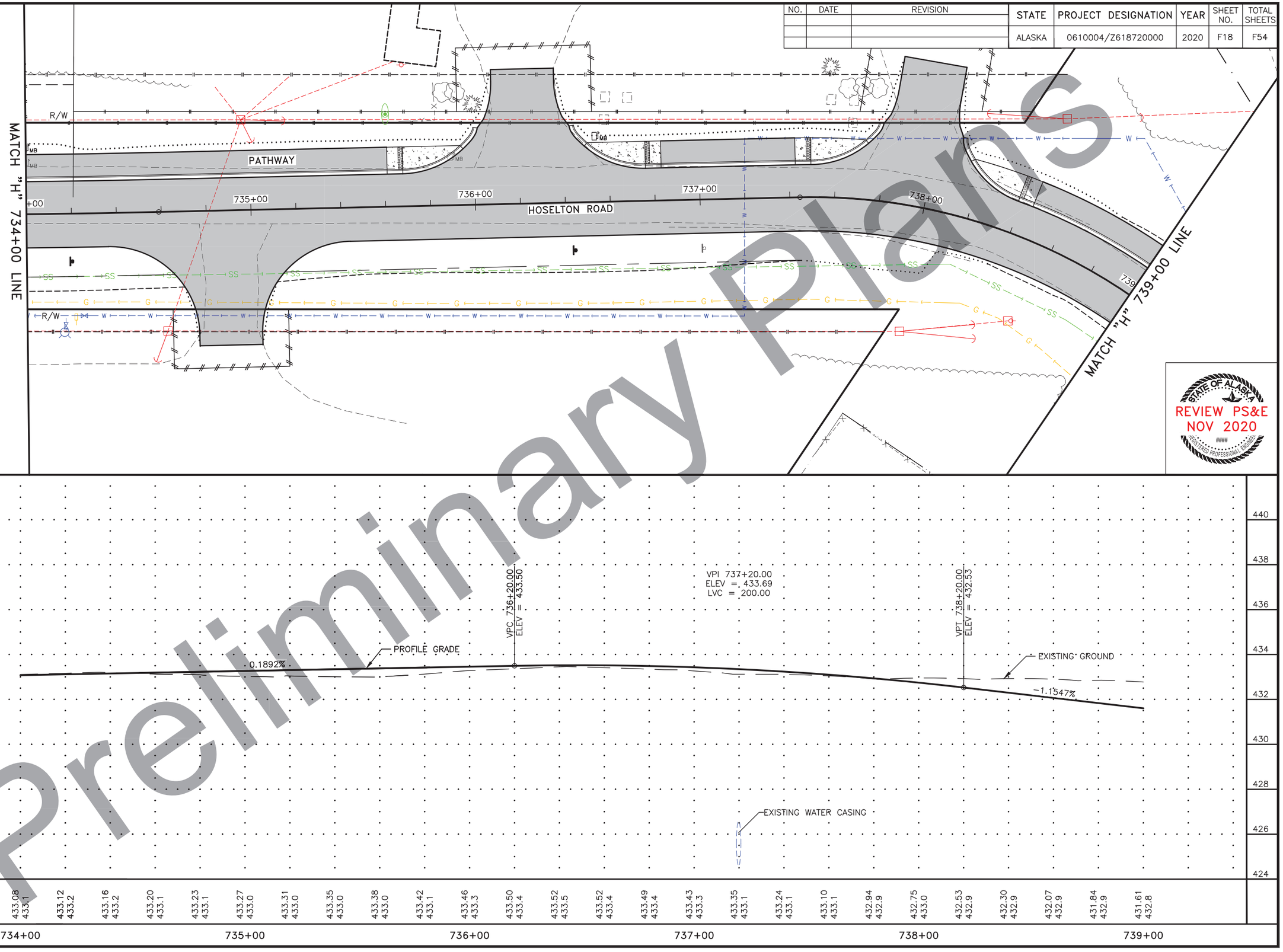
STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-H-F17 Thu, Nov/05/20 01:50pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F18	F54

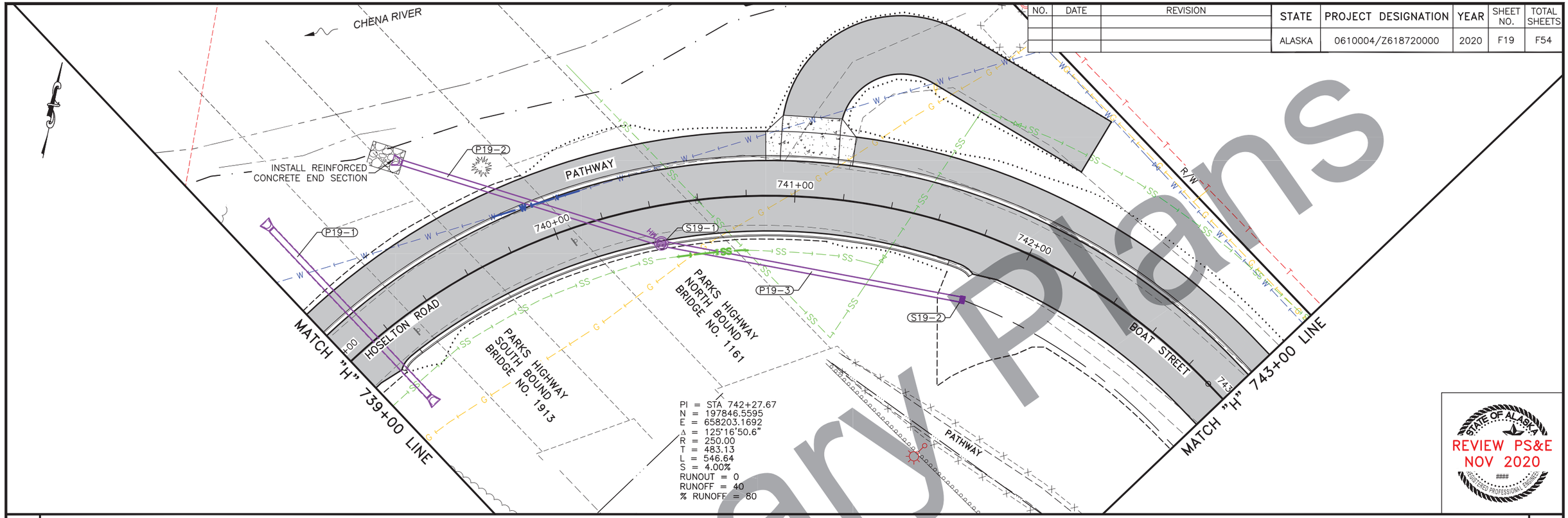


Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-H-F18 Thu, Nov/05/20 01:50pm

NO.	DATE	REVISION

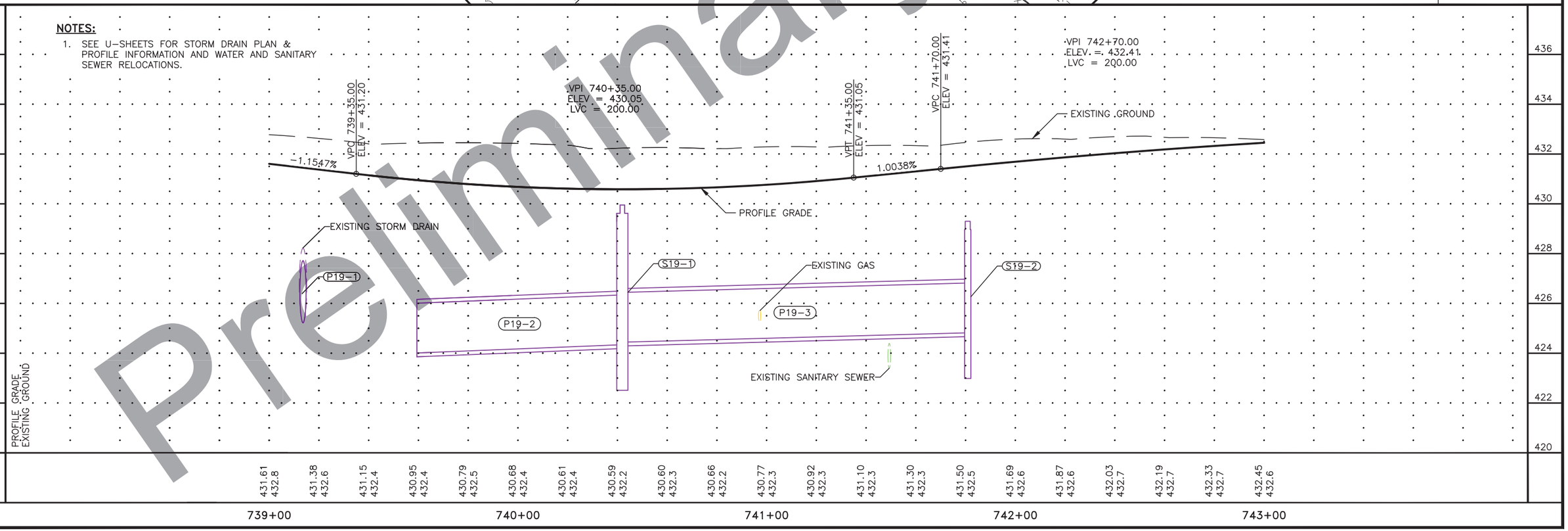
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F19	F54



STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

NOTES:

1. SEE U–SHEETS FOR STORM DRAIN PLAN & PROFILE INFORMATION AND WATER AND SANITARY SEWER RELOCATIONS.

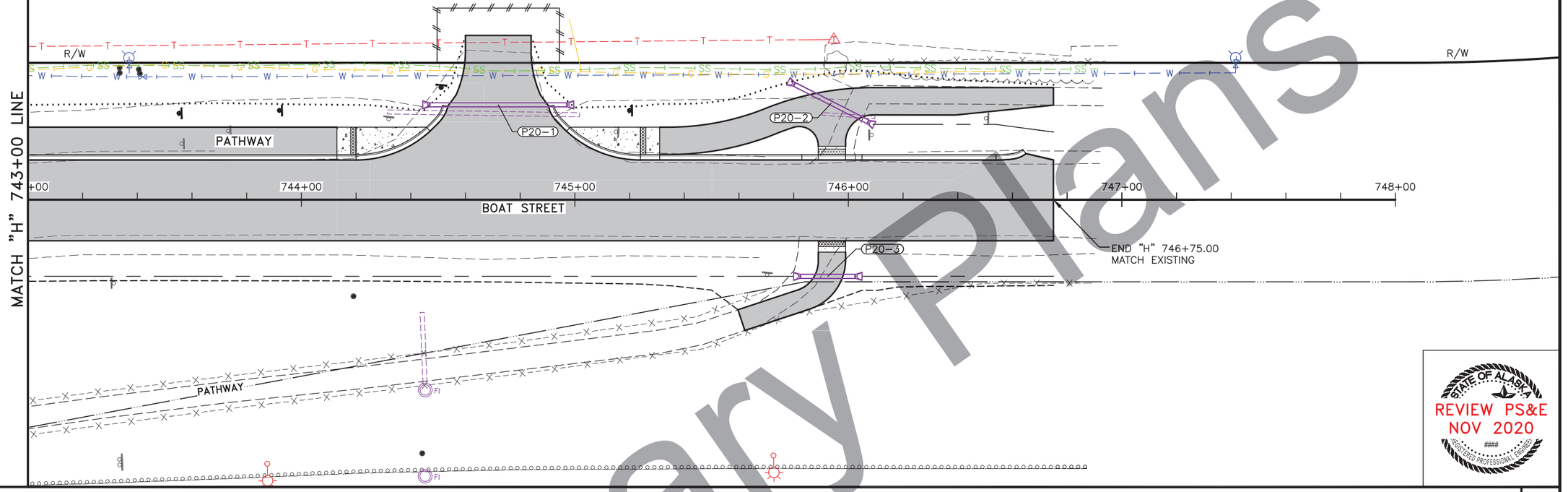


Preliminary Plans

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-H-F19 Thu, Nov/05/20 01:50pm

NO.	DATE	REVISION

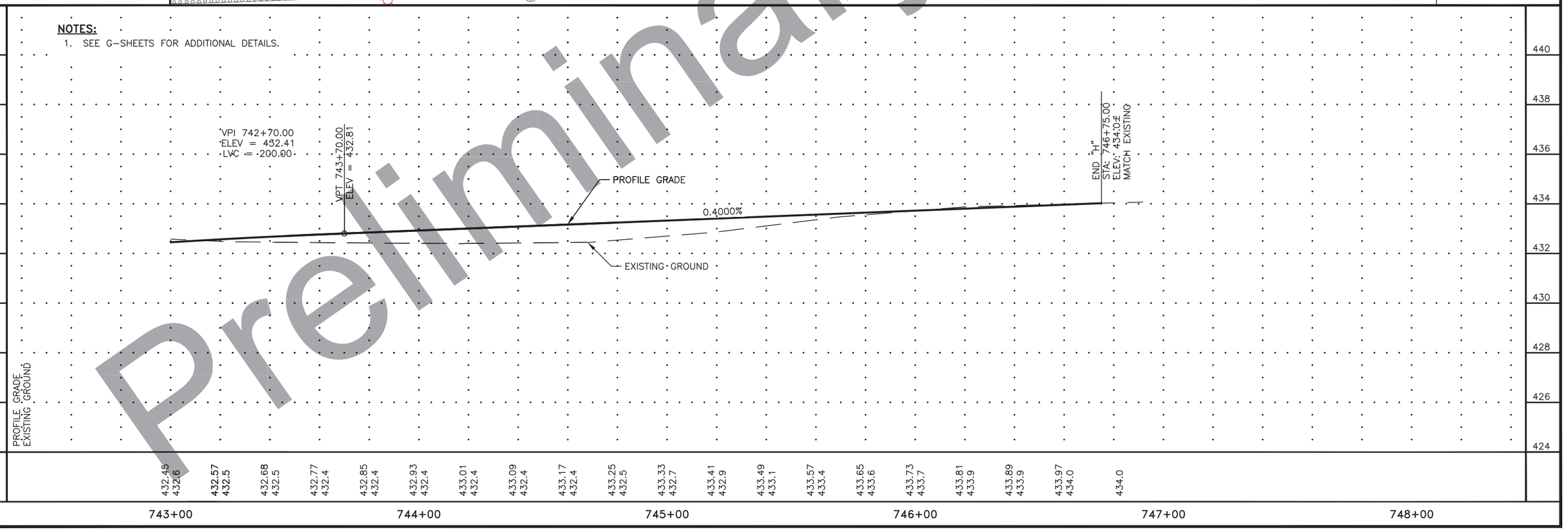
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F20	F54



STATE OF ALASKA
REVIEW PS&E
NOV 2020
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NOTES:

1. SEE G-SHEETS FOR ADDITIONAL DETAILS.

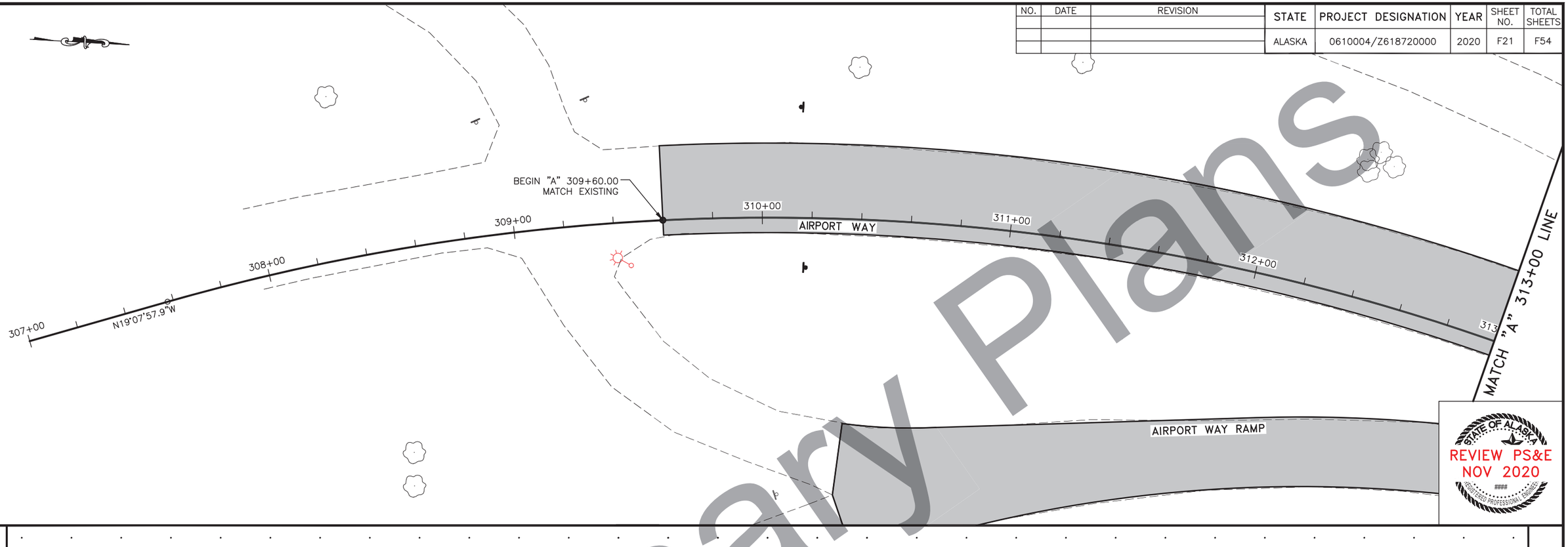


Preliminary Plans

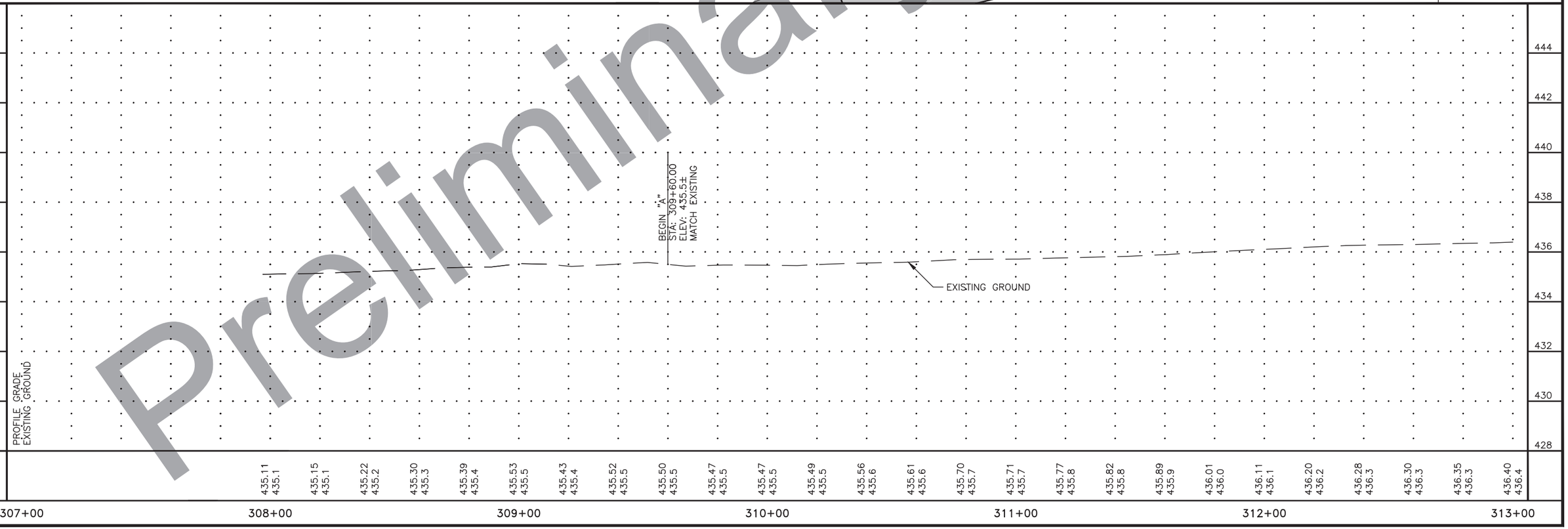
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-H-F20 Thu, Nov/05/20 01:50pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F21	F54



STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

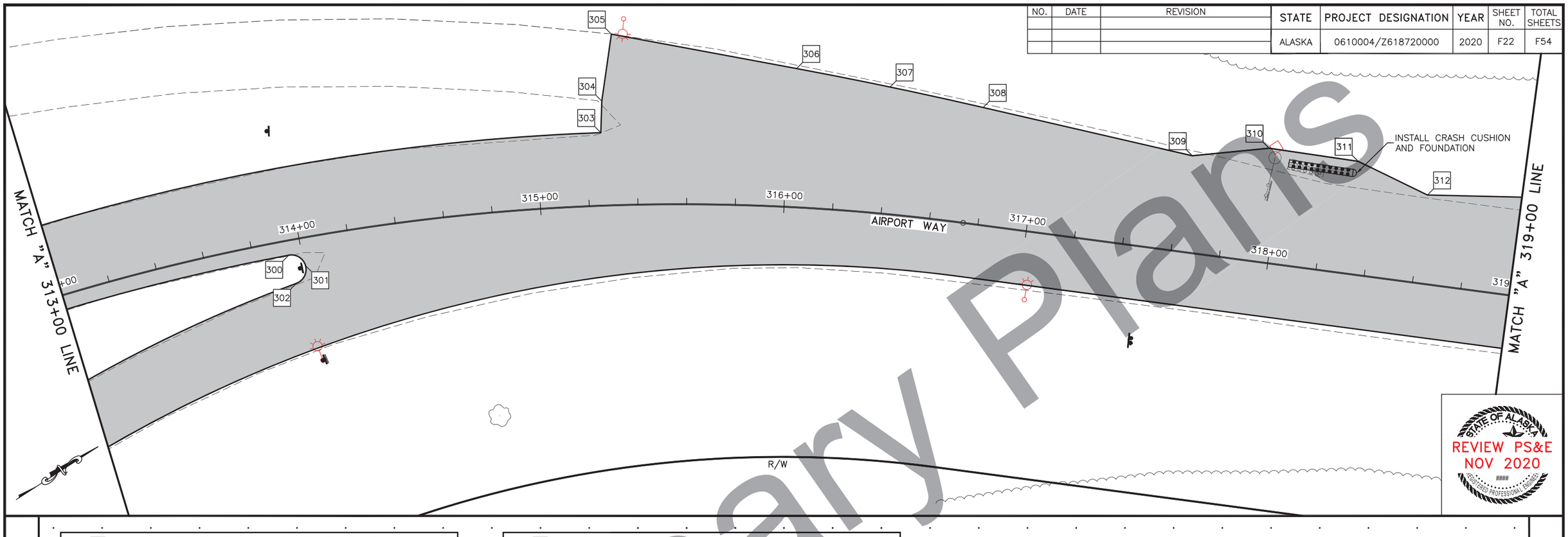


Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-A-F21 Thu, Nov/05/20 01:51pm

NO.	DATE	REVISION

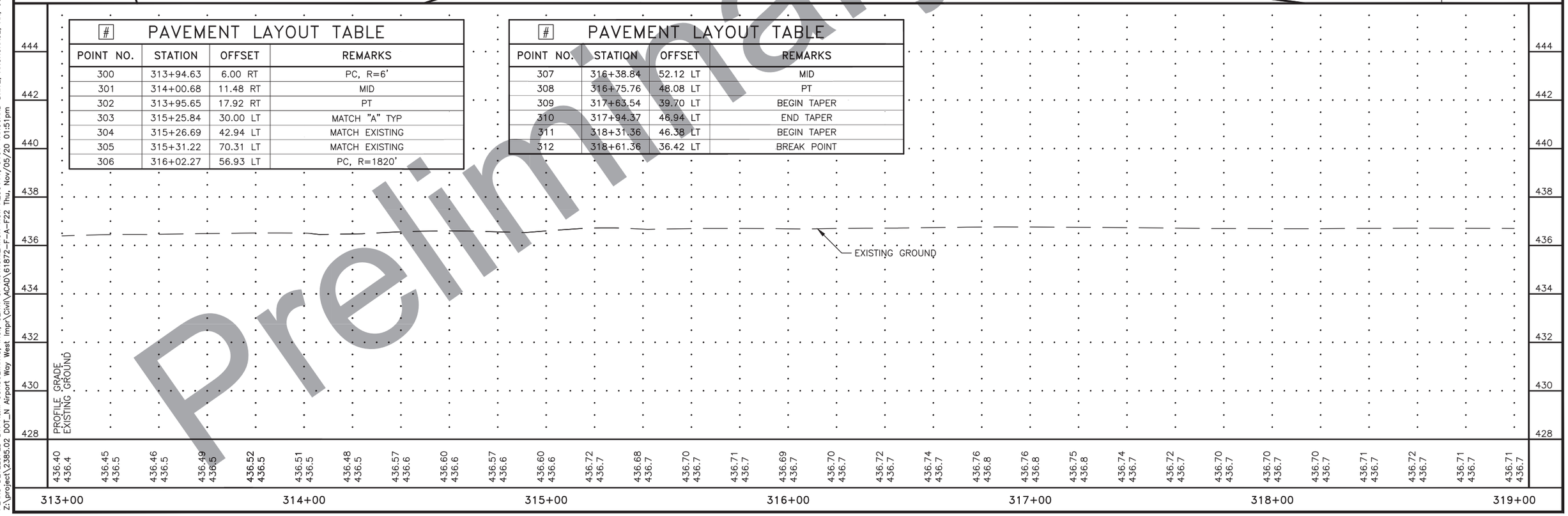
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F22	F54



STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER

#	PAVEMENT LAYOUT TABLE		
POINT NO.	STATION	OFFSET	REMARKS
300	313+94.63	6.00 RT	PC, R=6'
301	314+00.68	11.48 RT	MID
302	313+95.65	17.92 RT	PT
303	315+25.84	30.00 LT	MATCH "A" TYP
304	315+26.69	42.94 LT	MATCH EXISTING
305	315+31.22	70.31 LT	MATCH EXISTING
306	316+02.27	56.93 LT	PC, R=1820'

#	PAVEMENT LAYOUT TABLE		
POINT NO.	STATION	OFFSET	REMARKS
307	316+38.84	52.12 LT	MID
308	316+75.76	48.08 LT	PT
309	317+63.54	39.70 LT	BEGIN TAPER
310	317+94.37	46.94 LT	END TAPER
311	318+31.36	46.38 LT	BEGIN TAPER
312	318+61.36	36.42 LT	BREAK POINT

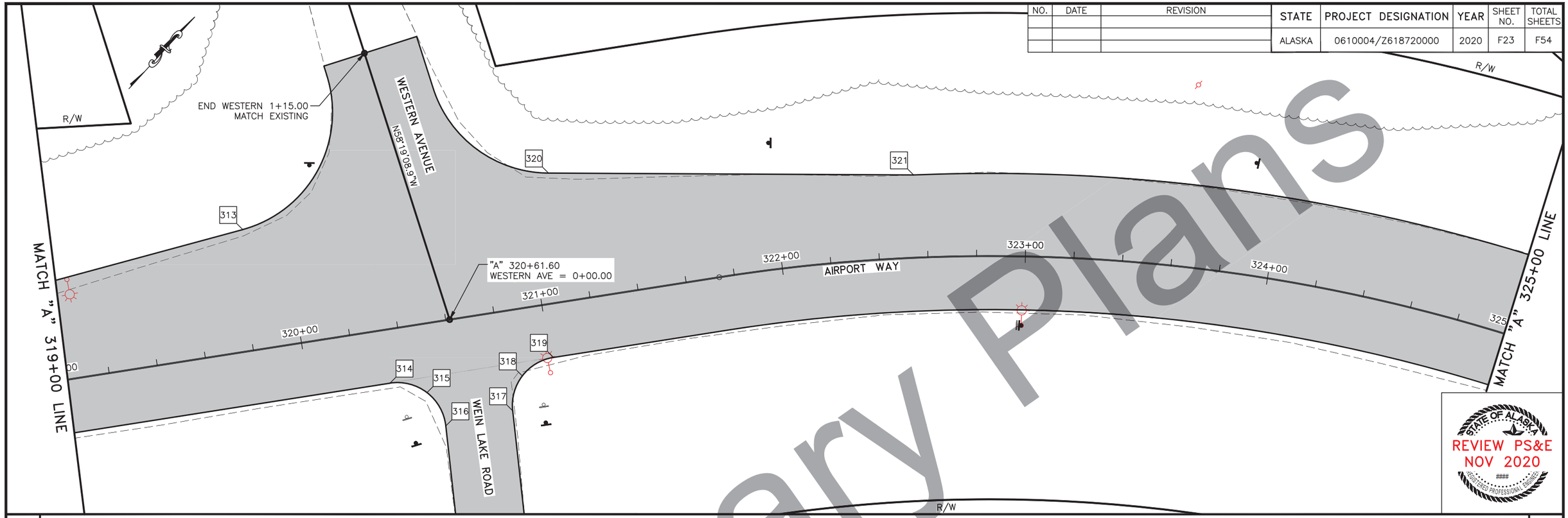


Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-A-F22 Thu, Nov/05/20 01:51pm

NO.	DATE	REVISION

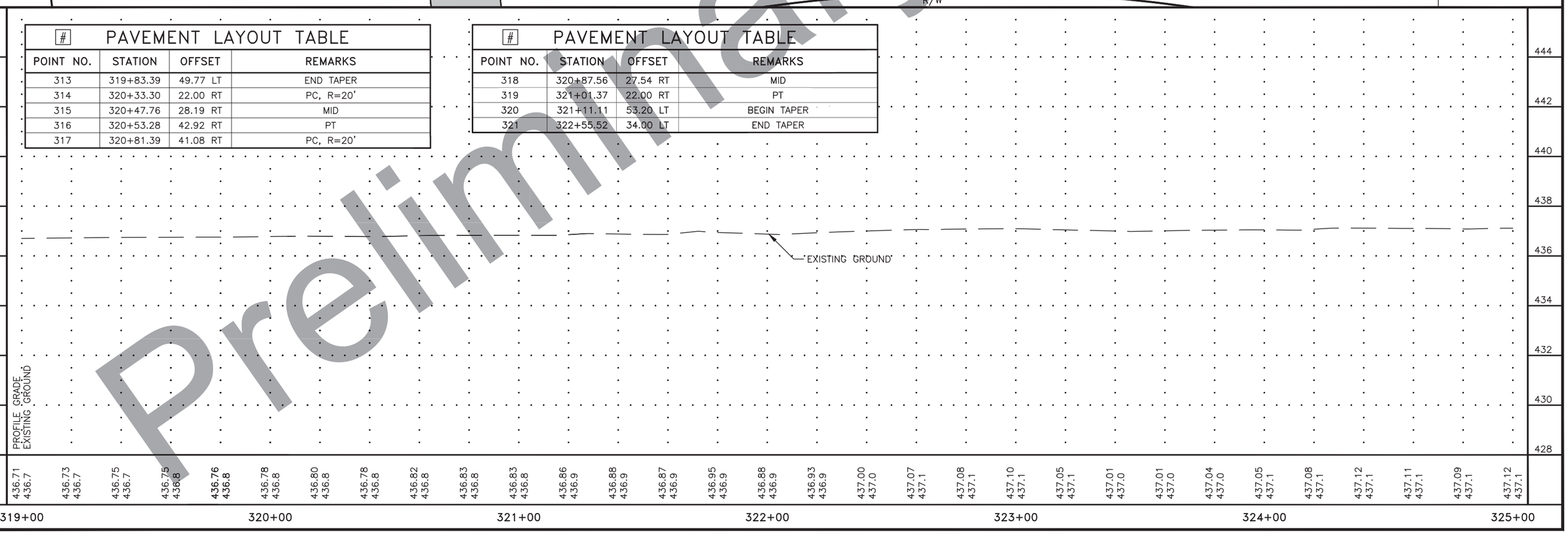
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F23	F54



STATE OF ALASKA
REVIEW PS&E
NOV 2020
####
REGISTERED PROFESSIONAL ENGINEER

#	PAVEMENT LAYOUT TABLE		
POINT NO.	STATION	OFFSET	REMARKS
313	319+83.39	49.77 LT	END TAPER
314	320+33.30	22.00 RT	PC, R=20'
315	320+47.76	28.19 RT	MID
316	320+53.28	42.92 RT	PT
317	320+81.39	41.08 RT	PC, R=20'

#	PAVEMENT LAYOUT TABLE		
POINT NO.	STATION	OFFSET	REMARKS
318	320+87.56	27.54 RT	MID
319	321+01.37	22.00 RT	PT
320	321+11.11	53.20 LT	BEGIN TAPER
321	322+55.52	34.00 LT	END TAPER



Preliminary Plans

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-A-F23 Thu, Nov/05/20 01:51pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F24	F54

DALE ROAD

MATCH "A" 325+00 LINE

MATCH "A" 331+00 LINE

AIRPORT WAY

325+00

326+00

327+00

328+00

329+00

330+00

331

322

323

324

R/W

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER
####

Preliminary Plans

PAVEMENT LAYOUT TABLE

POINT NO.	STATION	OFFSET	REMARKS
322	330+68.76	22.00 RT	PC, R=6'
323	330+74.68	27.05 RT	MID
324	330+70.63	33.70 RT	PT

EXISTING GROUND

PROFILE GRADE
EXISTING GROUND

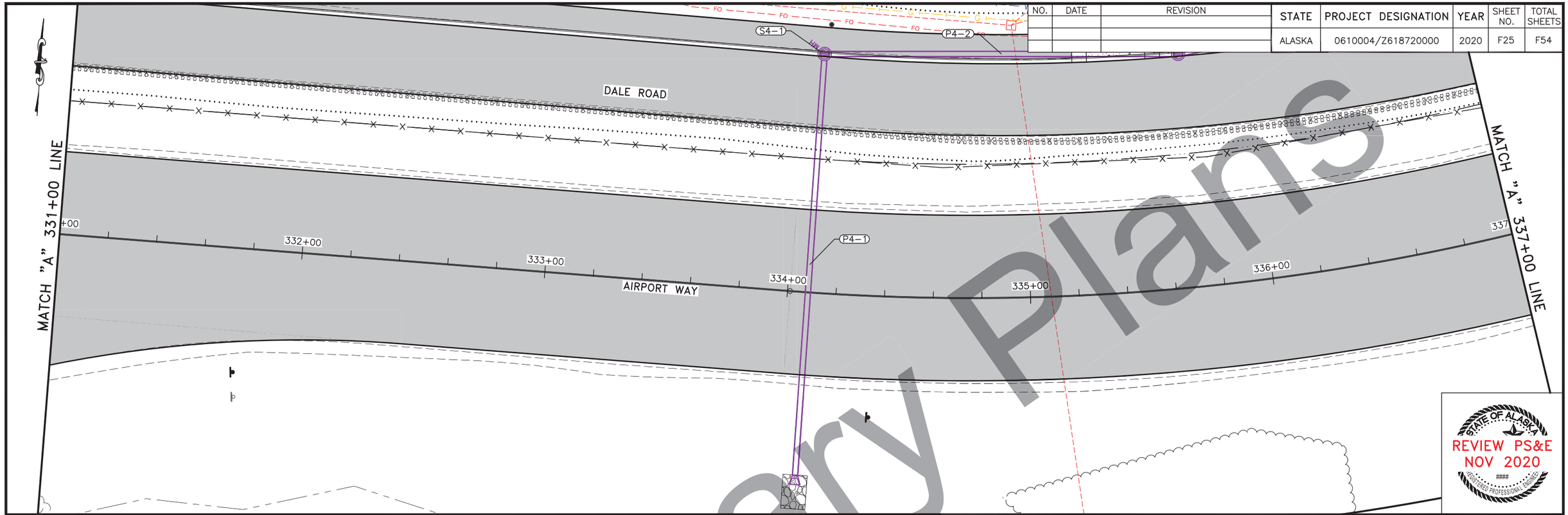
444
442
440
438
436
434
432
430
428

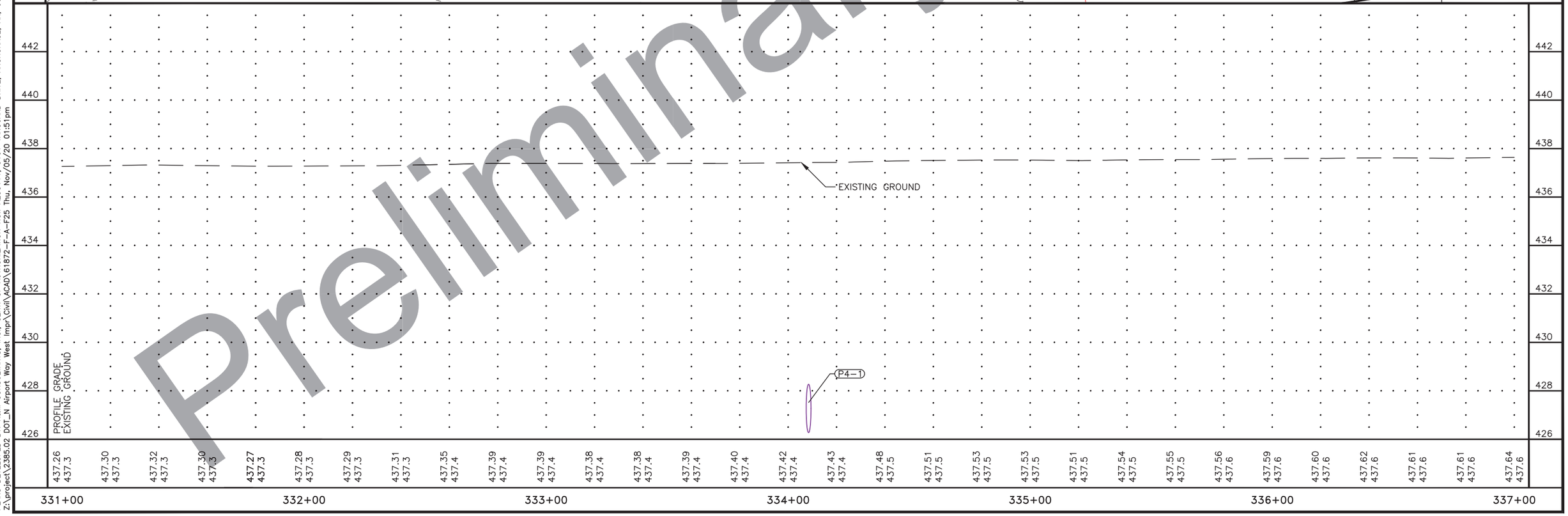
325+00	326+00	327+00	328+00	329+00	330+00	331+00
437.12 437.1	437.08 437.1	437.12 437.1	437.14 437.1	437.17 437.2	437.21 437.2	437.20 437.2
437.20 437.2	437.21 437.2	437.19 437.2	437.17 437.2	437.14 437.1	437.05 437.1	437.13 437.1
437.11 437.1	437.06 437.1	437.02 437.0	437.04 437.0	437.06 437.1	437.02 437.0	436.96 437.0
436.96 437.0	437.02 437.0	437.06 437.1	437.08 437.1	437.09 437.1	437.12 437.1	437.14 437.1
437.18 437.2	437.22 437.2	437.26 437.3				

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-A-F24 Thu, Nov/05/20 01:51pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F25	F54





Preliminary Plans

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-A-F25 Thu, Nov/05/20 01:51pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F26	F54

MATCH "A" 337+00 LINE

MATCH "A" 343+00 LINE

P4-4

S5-1

P5-1

P5-2

S5-2

MH

DALE ROAD

AIRPORT WAY

338+00

339+00

340+00

341+00

342+00

343

R/W

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

EXISTING GROUND

EXISTING SANITARY SEWER CASING

EXISTING WATER CASING

PROFILE GRADE
EXISTING GROUND

440
438
436
434
432
430
428
426
424

337+00	338+00	339+00	340+00	341+00	342+00	343+00
437.64 / 437.6	437.63 / 437.6	437.63 / 437.6	437.59 / 437.6	437.61 / 437.6	437.66 / 437.7	437.68 / 437.7
437.68 / 437.7	437.66 / 437.7	437.61 / 437.6	437.55 / 437.6	437.48 / 437.5	437.52 / 437.5	437.54 / 437.5
437.51 / 437.5	437.45 / 437.4	437.37 / 437.4	437.34 / 437.3	437.28 / 437.3	437.23 / 437.2	437.18 / 437.2
437.10 / 437.1	436.95 / 437.0	436.79 / 436.8	436.73 / 436.7	436.72 / 436.7	436.70 / 436.7	436.67 / 436.7
436.64 / 436.6	436.59 / 436.6	436.53 / 436.5				

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-A-F26 Thu, Nov/05/20 01:51pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F27	F54

MATCH "A" 343+00 LINE

MATCH "A" 349+00 LINE

DALE ROAD

AIRPORT WAY

+00 344+00 345+00 346+00 347+00 348+00 349

R/W

R/W

STATE OF ALASKA
REVIEW PS&E
NOV 2020
####
REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

EXISTING GROUND

PROFILE GRADE
EXISTING GROUND

| | | |

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F28	F54

MATCH "A" 349+00 LINE

MATCH "A" 355+00 LINE

DALE ROAD

AIRPORT WAY

+00 350+00 351+00 352+00 353+00 354+00 355

R/W R/W

STATE OF ALASKA
REVIEW PS&E
NOV 2020
####
REGISTERED PROFESSIONAL ENGINEER

444 442 440 438 436 434 432 430 428

PROFILE GRADE
EXISTING GROUND

EXISTING GROUND

| | | |

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F29	F54

DALE ROAD

PATHWAY

MATCH "A" 355+00 LINE

MATCH "A" 361+00 LINE

+00 356+00 357+00 358+00 359+00 360+00 361

AIRPORT WAY

OLD AIRPORT ROAD

P29-1

R/W

R/W

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER

PROFILE GRADE
EXISTING GROUND

EXISTING GROUND

355+00	356+00	357+00	358+00	359+00	360+00	361+00
435.97 / 436.0	435.94 / 435.9	435.89 / 435.9	435.84 / 435.8	435.83 / 435.8	435.81 / 435.8	435.83 / 435.8
435.85 / 435.8	435.88 / 435.9	435.92 / 435.9	435.95 / 435.9	435.93 / 435.9	435.90 / 435.9	435.92 / 435.9
435.97 / 436.0	435.96 / 436.0	435.95 / 436.0	435.95 / 435.9	435.94 / 435.9	435.95 / 436.0	435.96 / 436.0
435.96 / 436.0	435.96 / 436.0	435.96 / 436.0	435.96 / 436.0	435.98 / 436.0	435.99 / 436.0	436.01 / 436.0
436.03 / 436.0	436.03 / 436.0	436.01 / 436.0	436.00 / 436.0			

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-A-F29 Thu, Nov/05/20 01:52pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F30	F54

MATCH "A" 361+00 LINE

MATCH "A" 367+00 LINE

PATHWAY

325

326

P10-1

+00 362+00 363+00 364+00 365+00 366+00 367

AIRPORT WAY

P47-1

R/W

R/W

STATE OF ALASKA
REVIEW PS&E
NOV 2020
####
REGISTERED PROFESSIONAL ENGINEER

PAVEMENT LAYOUT TABLE

POINT NO.	STATION	OFFSET	REMARKS
325	363+14.95	44.00 LT	BEGIN TAPER
326	364+35.45	34.00 LT	END TAPER

440 438 436 434 432 430 428 426 424

EXISTING GROUND

P10-1

EXISTING SANITARY SEWER CASING

PROFILE GRADE
EXISTING GROUND

436.00 436.0 | 436.00 436.0 | 436.01 436.0 | 436.02 436.0 | 436.02 436.0 | 436.02 436.0 | 436.02 436.0 | 436.01 436.0 | 436.00 436.0 | 436.00 436.0 | 436.03 436.0 | 436.06 436.1 | 436.08 436.1 | 436.08 436.1 | 436.08 436.1 | 436.03 436.0 | 435.97 436.0 | 435.98 436.0 | 435.99 436.0 | 435.97 436.0 | 435.93 435.9 | 435.90 435.9 | 435.90 435.9 | 435.90 435.9 | 435.90 435.9 | 435.89 435.9 | 435.89 435.9 | 435.89 435.9 | 435.91 435.9 | 435.94 435.9 | 435.94 435.9

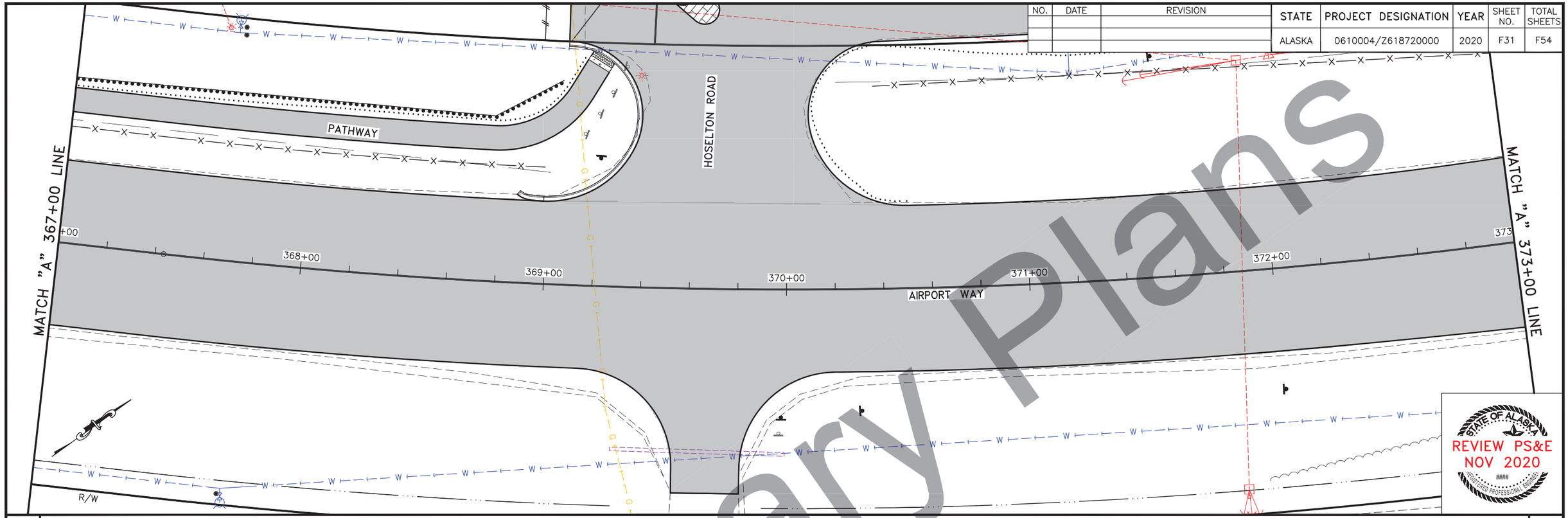
361+00 362+00 363+00 364+00 365+00 366+00 367+00

Preliminary Plans

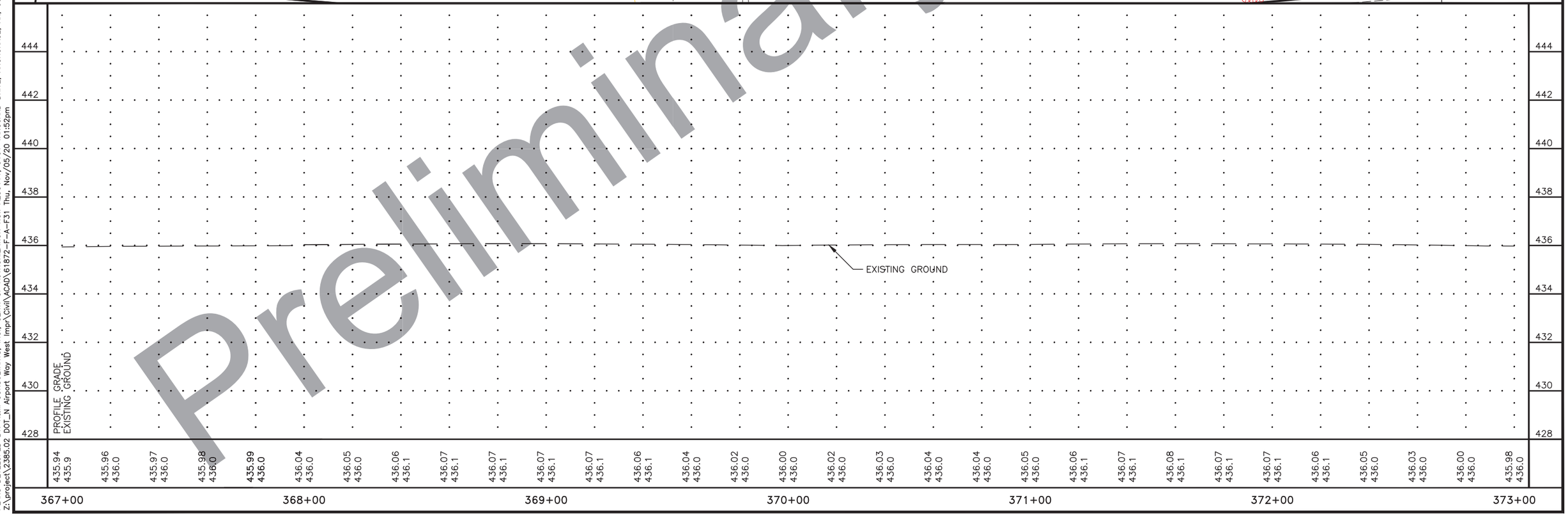
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-A-F30 Thu, Nov/05/20 01:52pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F31	F54



STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

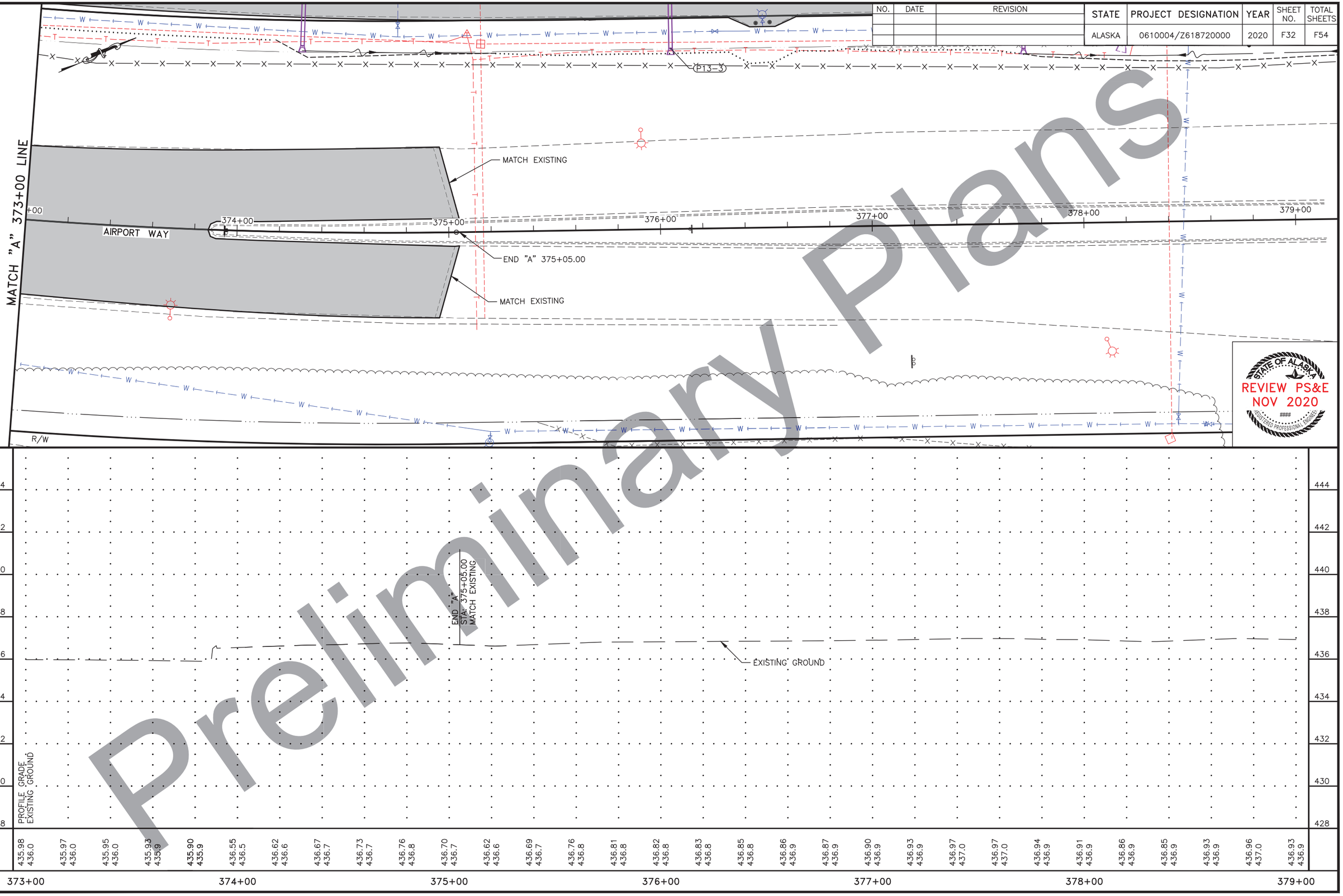


Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F32	F54



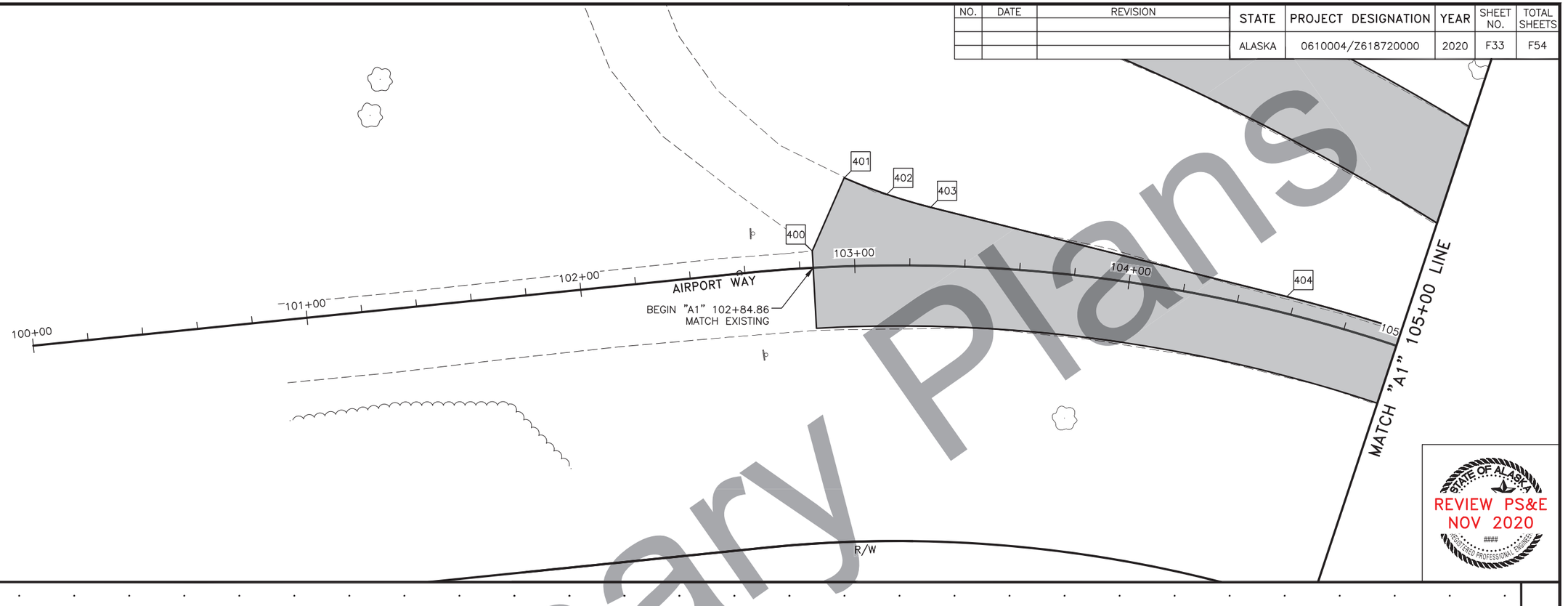
STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER
####

Preliminary Plans

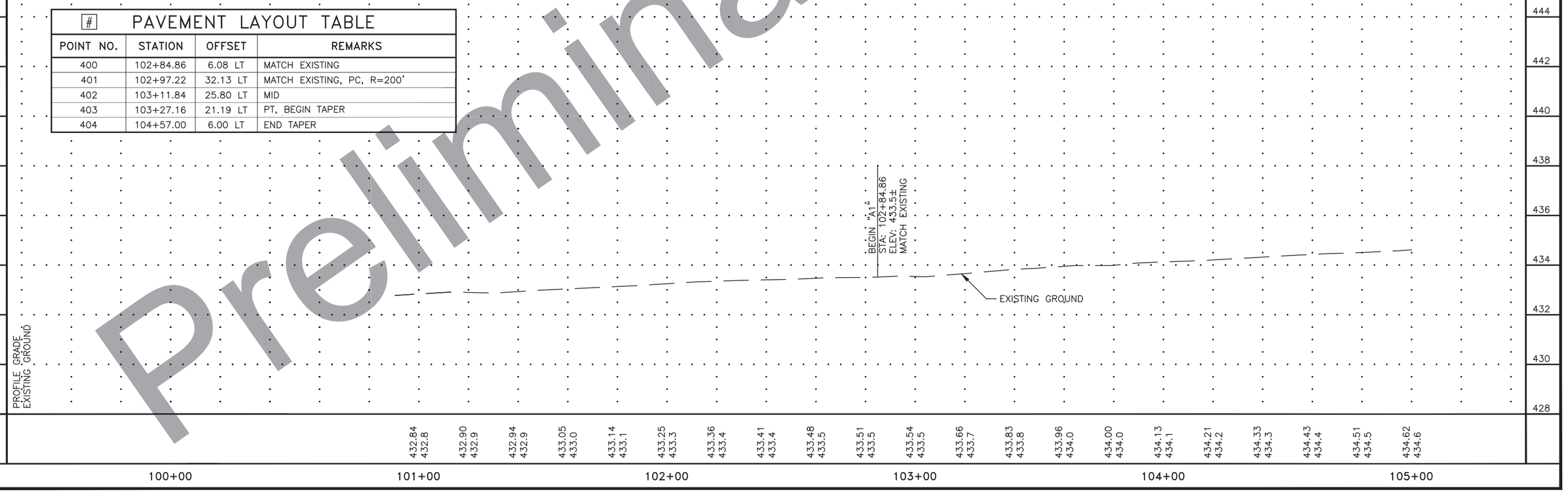
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F33	F54



#	PAVEMENT LAYOUT TABLE		
POINT NO.	STATION	OFFSET	REMARKS
400	102+84.86	6.08 LT	MATCH EXISTING
401	102+97.22	32.13 LT	MATCH EXISTING, PC, R=200'
402	103+11.84	25.80 LT	MID
403	103+27.16	21.19 LT	PT, BEGIN TAPER
404	104+57.00	6.00 LT	END TAPER



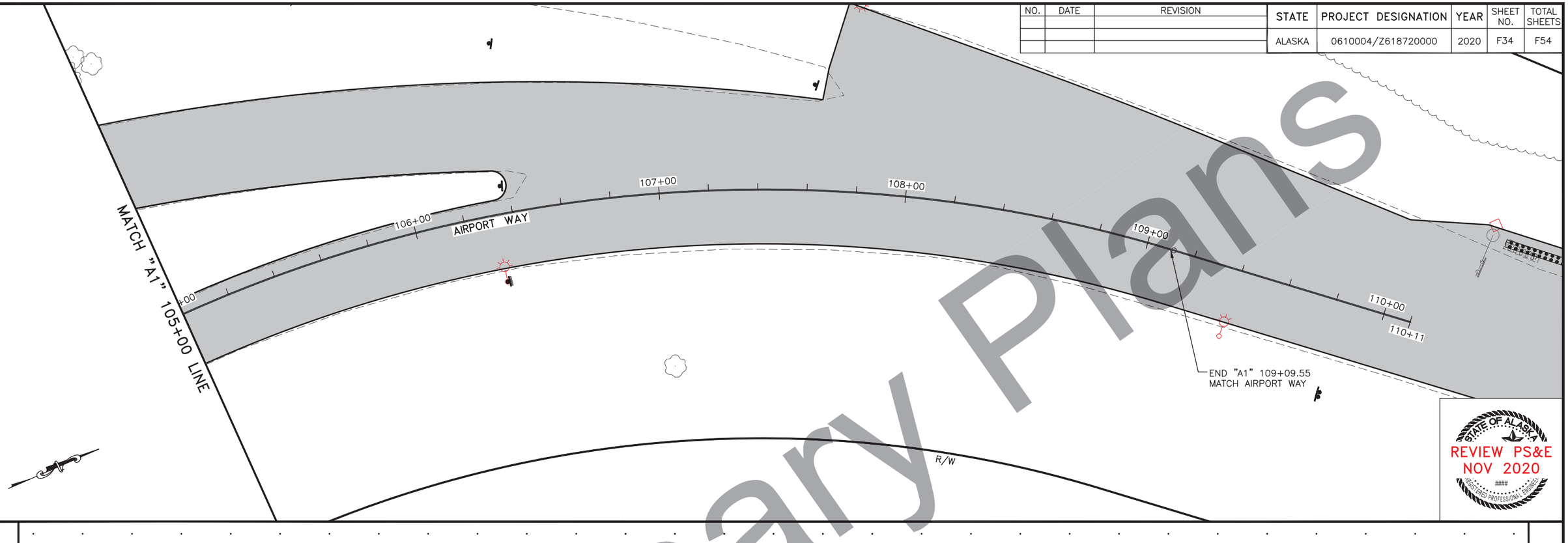
STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

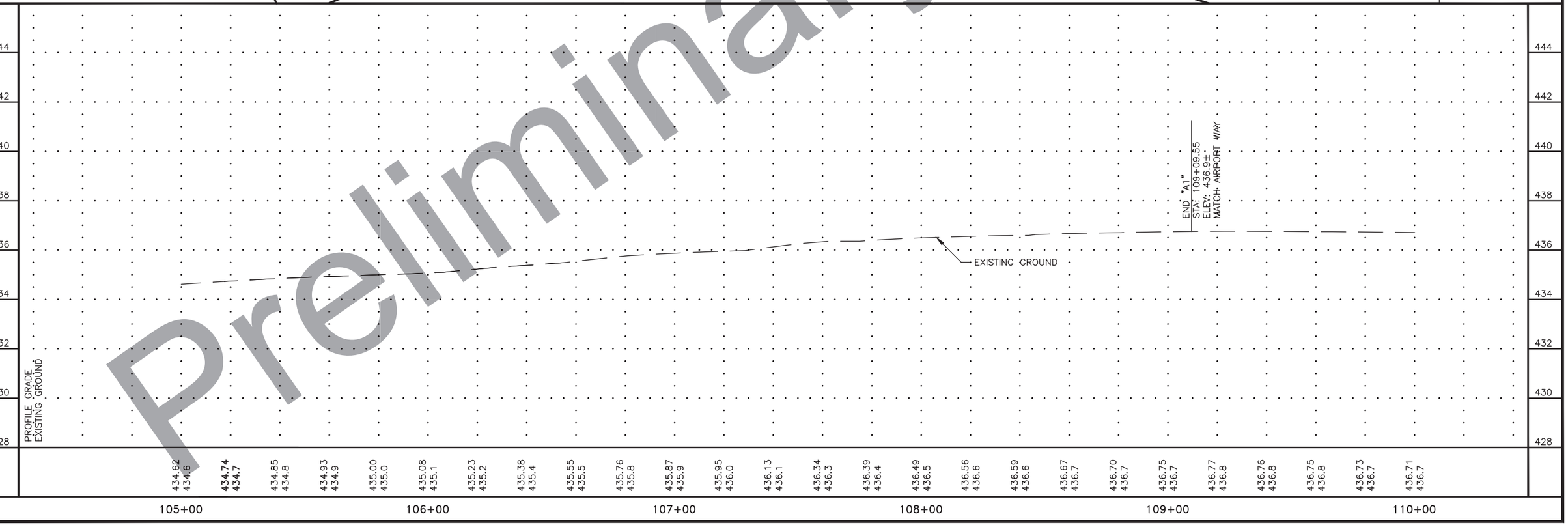
Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F34	F54





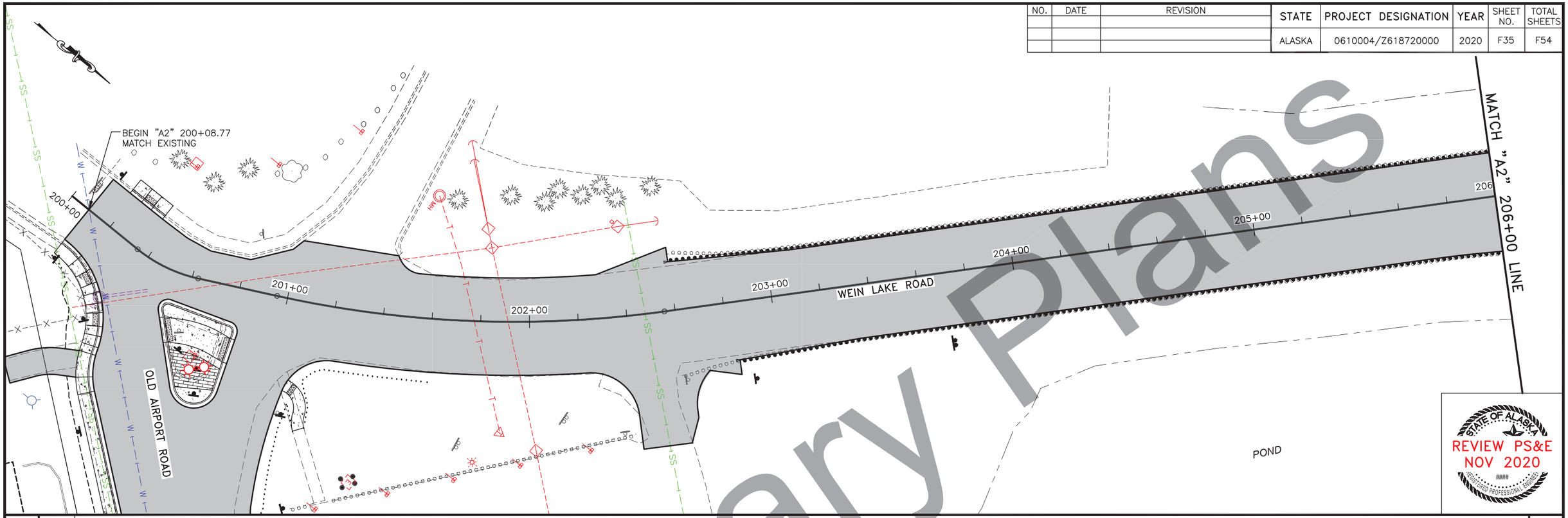
STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER

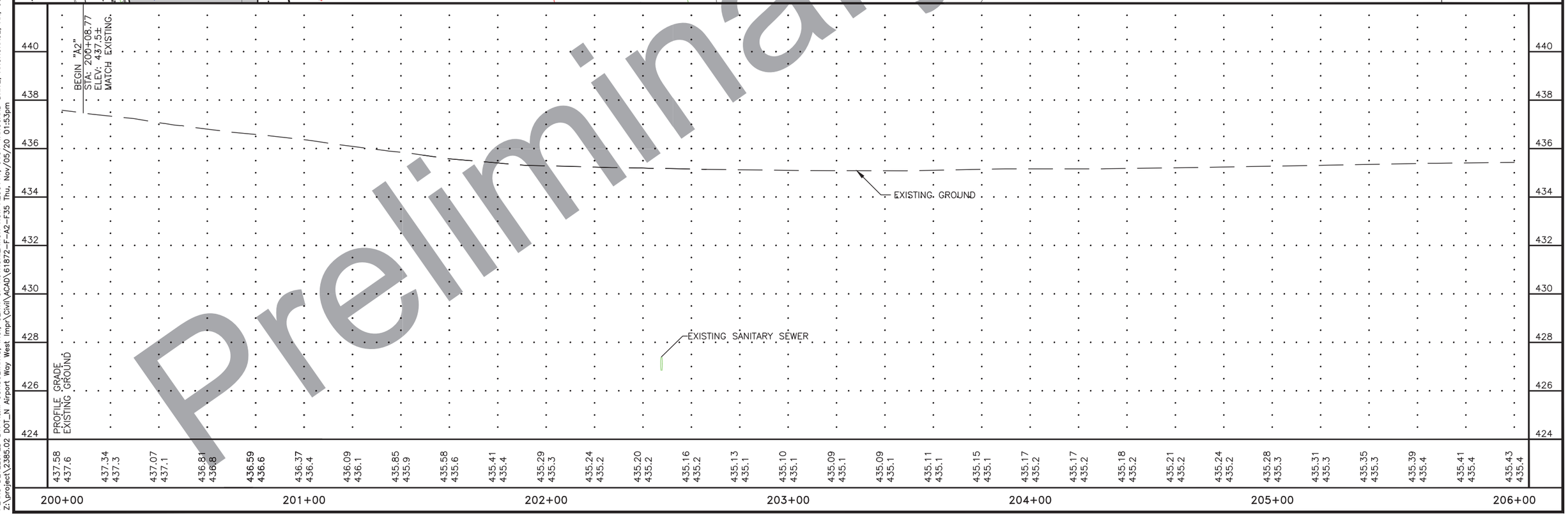
Preliminary Plans

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-A1-F34 Thu, Nov/05/20 01:53pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F35	F54





STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F36	F54

MATCH "A2" 206+00 LINE

MATCH "A2" 212+00 LINE

206+00 207+00 208+00 209+00 210+00 211+00 212+00

WEIN LAKE ROAD WEST

WEIN LAKE ROAD NORTH

500

501

502

POND

R/W

STATE OF ALASKA
REVIEW PS&E
NOV 2020
####
REGISTERED PROFESSIONAL ENGINEER

PAVEMENT LAYOUT TABLE

POINT NO.	STATION	OFFSET	REMARKS
500	207+57.34	10.00 RT	PC, R=8'
501	207+49.45	16.65 RT	MID
502	207+54.68	25.54 RT	PT

444 442 440 438 436 434 432 430 428

EXISTING GROUND

PROFILE GRADE
EXISTING GROUND

435.43 435.4 | 435.45 435.5 | 435.48 435.5 | 435.52 435.5 | 435.59 435.6 | 435.65 435.6 | 435.65 435.7 | 435.64 435.6 | 435.66 435.7 | 435.68 435.7 | 435.68 435.7 | 435.67 435.7 | 435.68 435.7 | 435.67 435.7 | 435.67 435.7 | 435.69 435.7 | 435.75 435.7 | 435.81 435.8 | 435.84 435.8 | 435.86 435.9 | 435.87 435.9 | 435.88 435.9 | 435.89 435.9 | 435.90 435.9 | 435.95 436.0 | 435.95 436.0 | 435.96 436.0 | 435.92 435.9 | 435.91 435.9 | 435.87 435.9 | 435.85 435.9

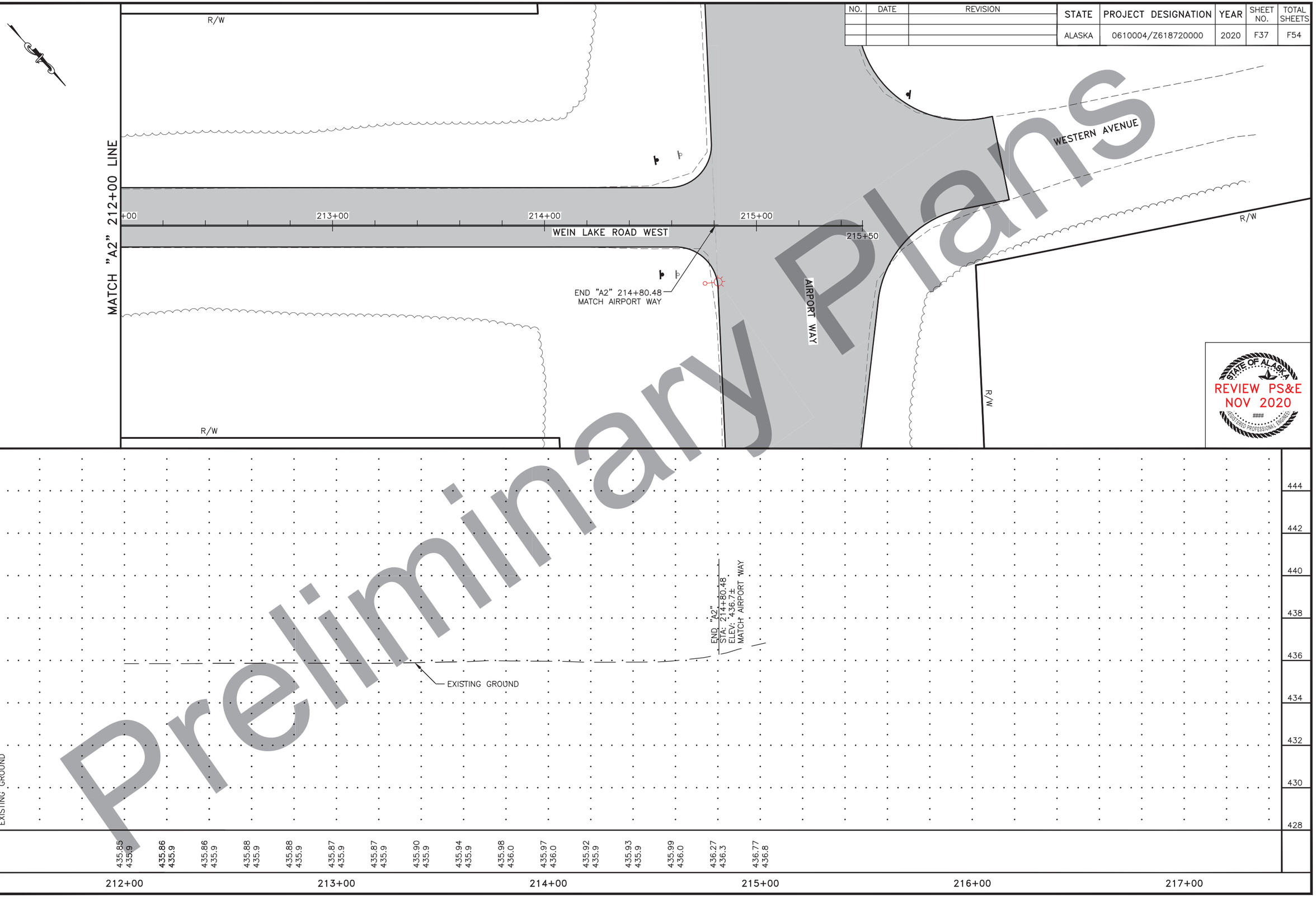
206+00 207+00 208+00 209+00 210+00 211+00 212+00

Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F37	F54



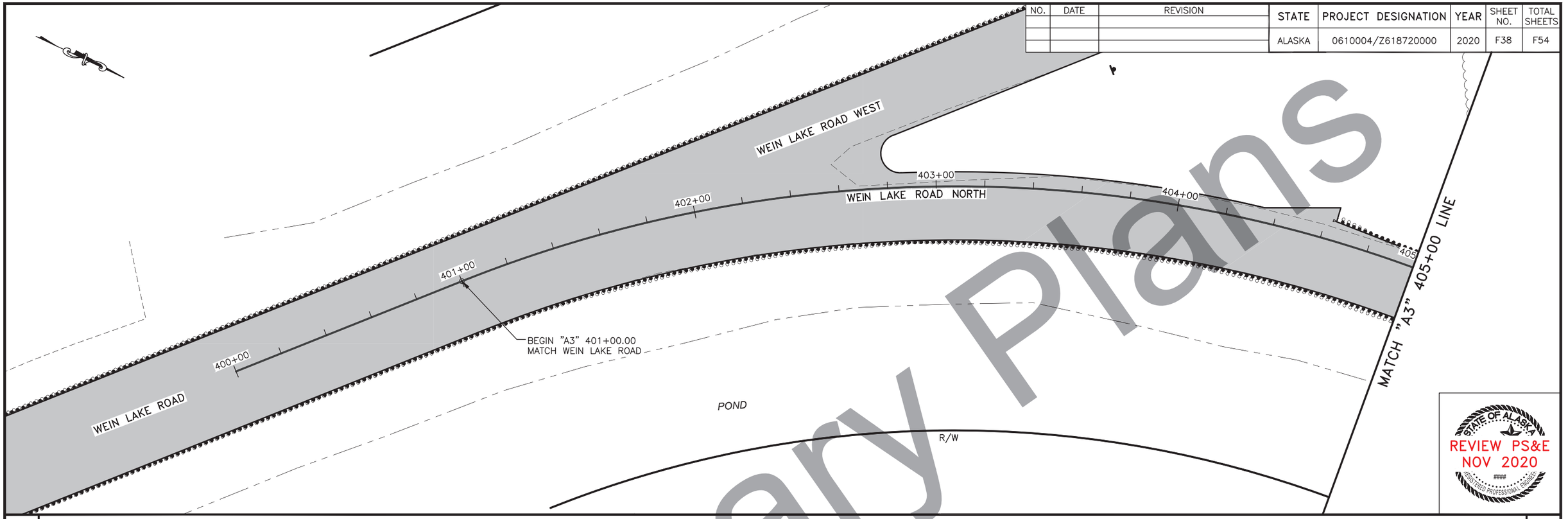
STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

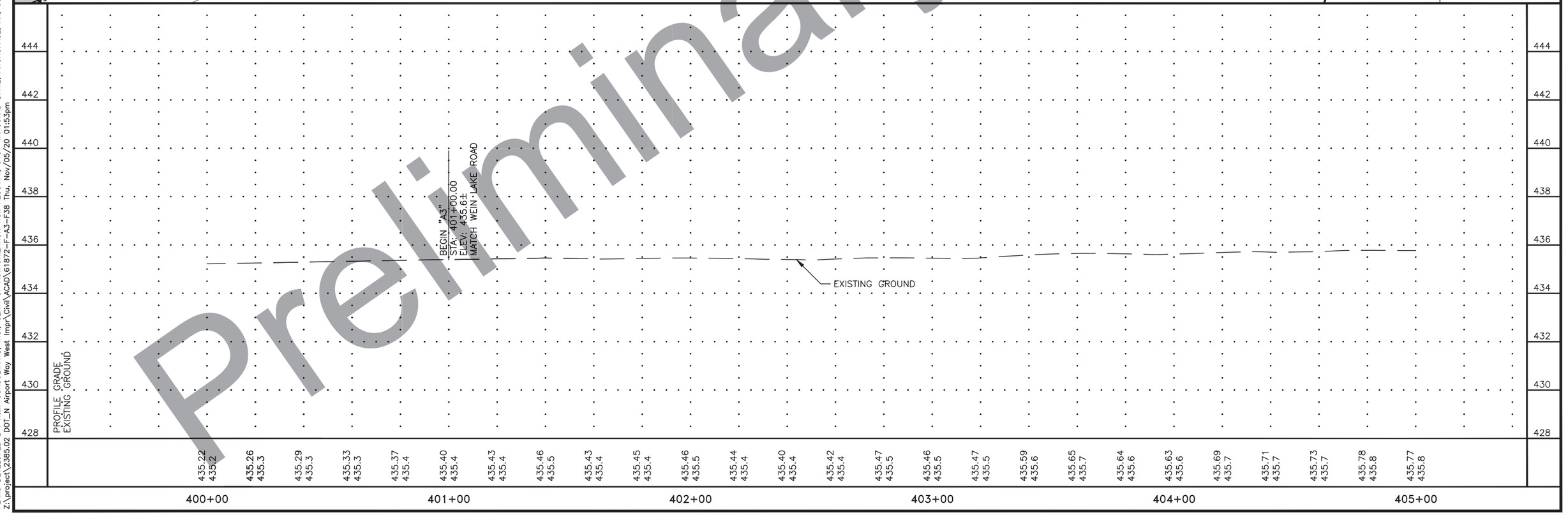
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\AGAD\61872-F-A2-F37 Thu, Nov/05/20 01:53pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F38	F54



STATE OF ALASKA
REVIEW PS&E
NOV 2020
####
REGISTERED PROFESSIONAL ENGINEER

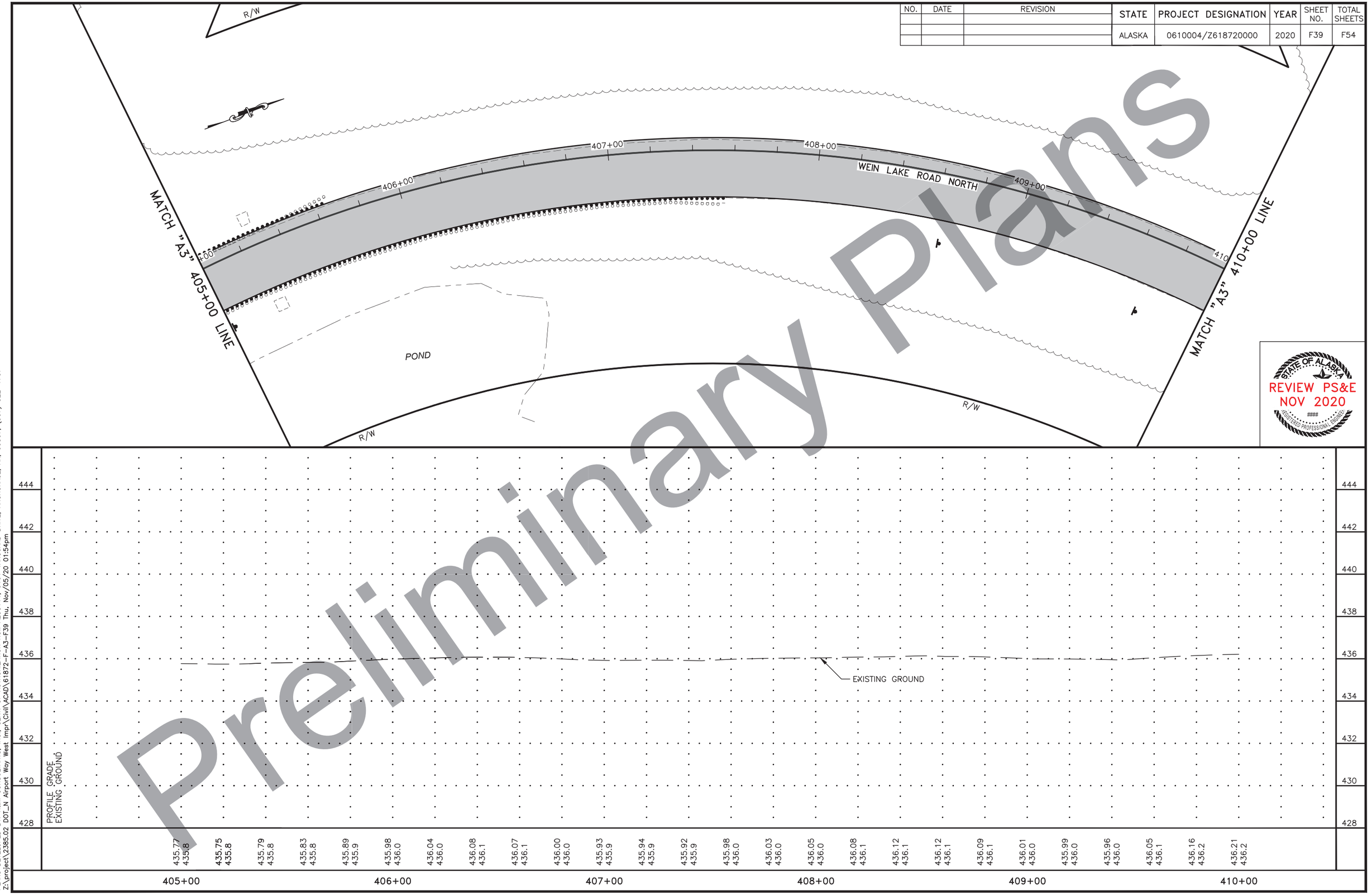


Preliminary Plans

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\AOAD\61872-F-A3-F38 Thu, Nov/05/20 01:53pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F39	F54



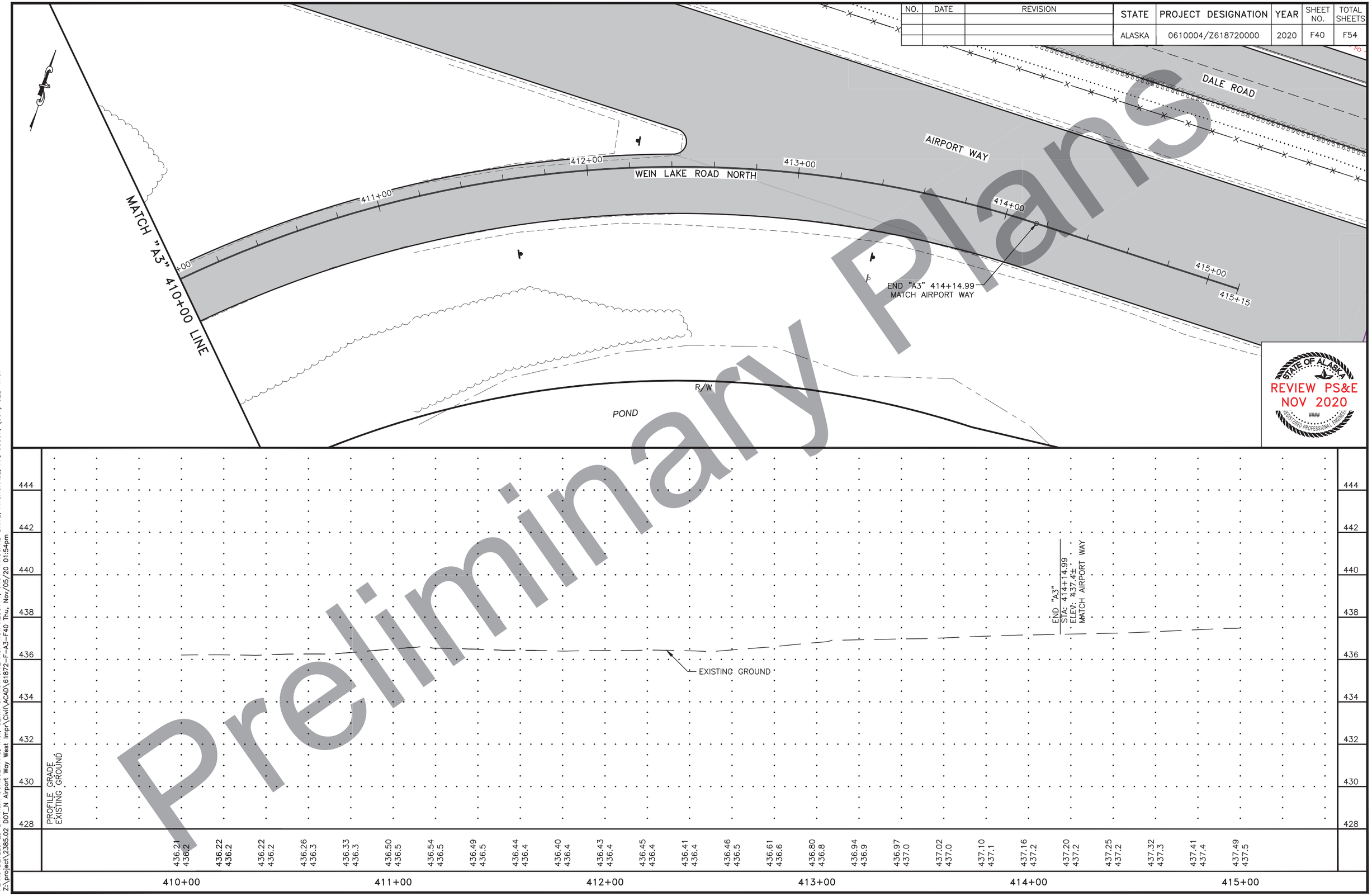
STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-A3-F39 Thu, Nov/05/20 01:54pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F40	F54



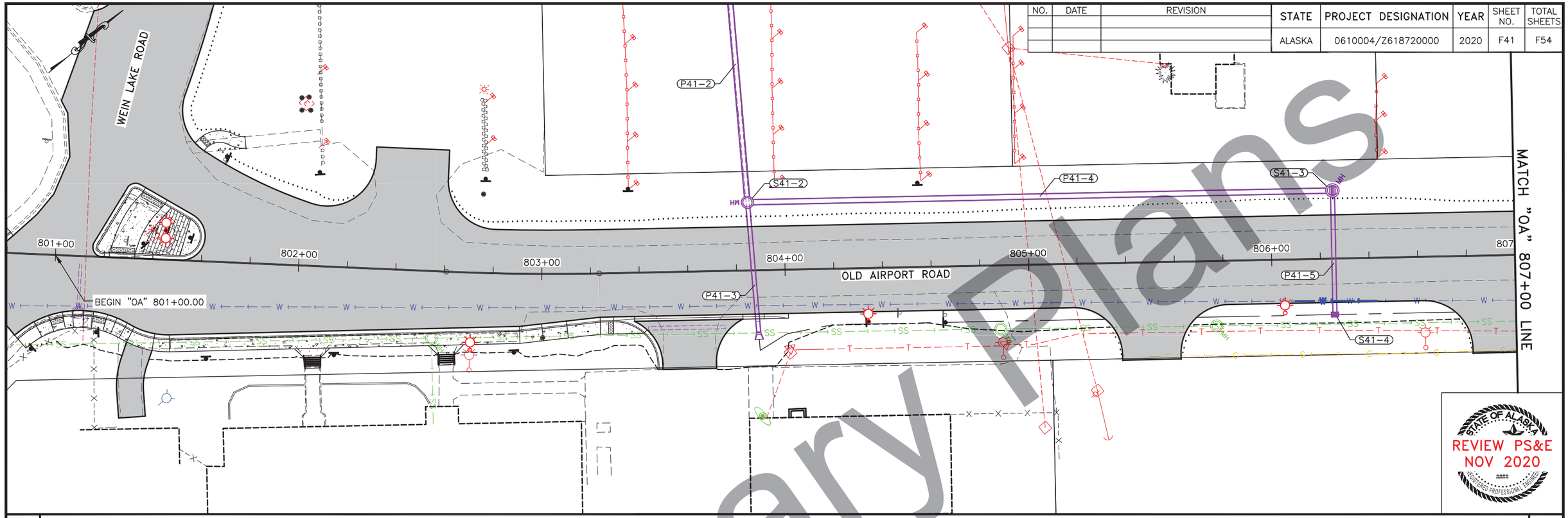
STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

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NO.	DATE	REVISION

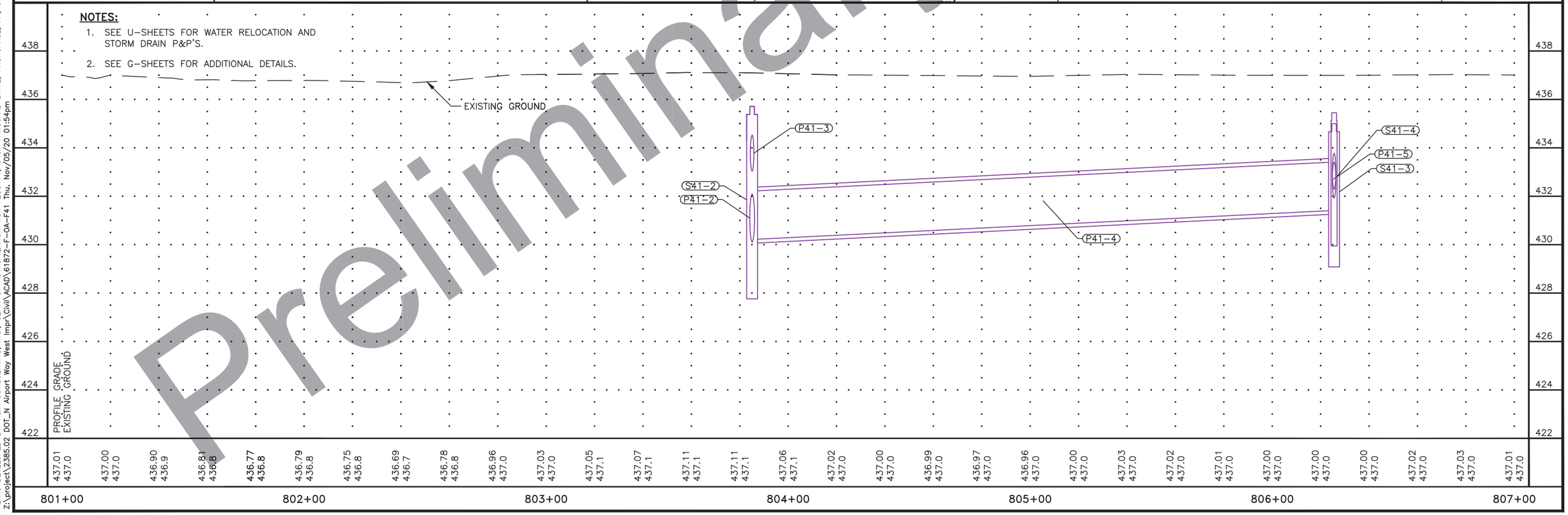
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F41	F54



STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER
####

NOTES:

1. SEE U-SHEETS FOR WATER RELOCATION AND STORM DRAIN P&P'S.
2. SEE G-SHEETS FOR ADDITIONAL DETAILS.



Preliminary Plans

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-OA-F41 Thu, Nov/05/20 01:54pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F42	F54

MATCH "OA" 807+00 LINE

MATCH "OA" 813+00 LINE

OLD AIRPORT ROAD

BEGIN SPECIAL DITCH
STA: 807+87.35
OFF: 25.00 RT
ELEV: ???

END SPECIAL DITCH
STA: 808+48.64
OFF: 25.00 RT
ELEV: ???

P42-1 P42-2 P42-3 P42-4 S42-1 S42-2 S42-3

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

EXISTING GROUND

EXISTING WATER

PROFILE GRADE
EXISTING GROUND

436 434 432 430 428 426 424 422 420

437.01 437.0 | 436.99 437.0 | 437.00 437.0 | 437.05 437.1 | 437.04 437.0 | 437.03 437.0 | 437.02 437.0 | 437.00 437.0 | 436.99 437.0 | 436.93 436.9 | 436.92 436.9 | 436.93 436.9 | 436.92 436.9 | 436.91 436.9 | 436.92 436.9 | 436.93 436.9 | 436.92 436.9 | 436.87 436.9 | 436.88 436.9 | 436.93 436.9 | 436.98 437.0 | 437.02 437.0 | 437.04 437.0 | 437.06 437.1 | 437.07 437.1 | 437.08 437.1 | 437.09 437.1 | 437.10 437.1 | 437.11 437.1 | 437.12 437.1 | 437.14 437.1

807+00 808+00 809+00 810+00 811+00 812+00 813+00

Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F43	F54

MATCH "OA" 813+00 LINE

MATCH "OA" 819+00 LINE

OLD AIRPORT ROAD

813+00 814+00 815+00 816+00 817+00 818+00 819

"OA" 818+00.00
DALE RD = 0+00.00

S51°07'00.0"E

DALE ROAD 1+00

PI = STA 0+98.84
N = 191299.76
E = 656128.37
Δ = 64°57'17"
R = 75.00
T = 47.74
L = 85.03

P43-1

N63°55'42.7"E

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

PROFILE GRADE
EXISTING GROUND

EXISTING GROUND

EXISTING SANITARY SEWER

442 440 438 436 434 432 430 428 426

437.14 437.1 | 437.15 437.1 | 437.13 437.1 | 437.16 437.2 | 437.20 437.2 | 437.20 437.2 | 437.18 437.2 | 437.16 437.2 | 437.17 437.2 | 437.18 437.2 | 437.21 437.2 | 437.17 437.2 | 437.12 437.1 | 437.10 437.1 | 437.03 437.0 | 436.98 437.0 | 436.94 436.9 | 436.89 436.9 | 436.84 436.8 | 436.81 436.8 | 436.74 436.7 | 436.67 436.7 | 436.57 436.6 | 436.44 436.4 | 436.37 436.4 | 436.30 436.3 | 436.24 436.2 | 436.16 436.2 | 436.05 436.0 | 435.94 435.9 | 435.85 435.8

813+00 814+00 815+00 816+00 817+00 818+00 819+00

Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F44	F54

MATCH "OA" 819+00 LINE

MATCH "OA" 825+00 LINE

OLD AIRPORT ROAD

820+00

821+00

822+00

823+00

824+00

825

P44-1

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

PROFILE GRADE
EXISTING GROUND

EXISTING GROUND.

P44-1

819+00	820+00	821+00	822+00	823+00	824+00	825+00
435.85 / 435.8	435.76 / 435.8	435.73 / 435.7	435.67 / 435.7	435.62 / 435.6	435.56 / 435.6	435.49 / 435.5
435.40 / 435.4	435.30 / 435.3	435.26 / 435.3	435.19 / 435.2	435.13 / 435.1	435.09 / 435.1	435.07 / 435.1
435.08 / 435.1	435.09 / 435.1	435.09 / 435.1	435.09 / 435.1	435.09 / 435.1	435.09 / 435.1	435.08 / 435.1
435.06 / 435.1	435.05 / 435.0	435.04 / 435.0	435.04 / 435.0	435.11 / 435.1	435.17 / 435.2	435.21 / 435.2
435.22 / 435.2	435.20 / 435.2	435.16 / 435.2				

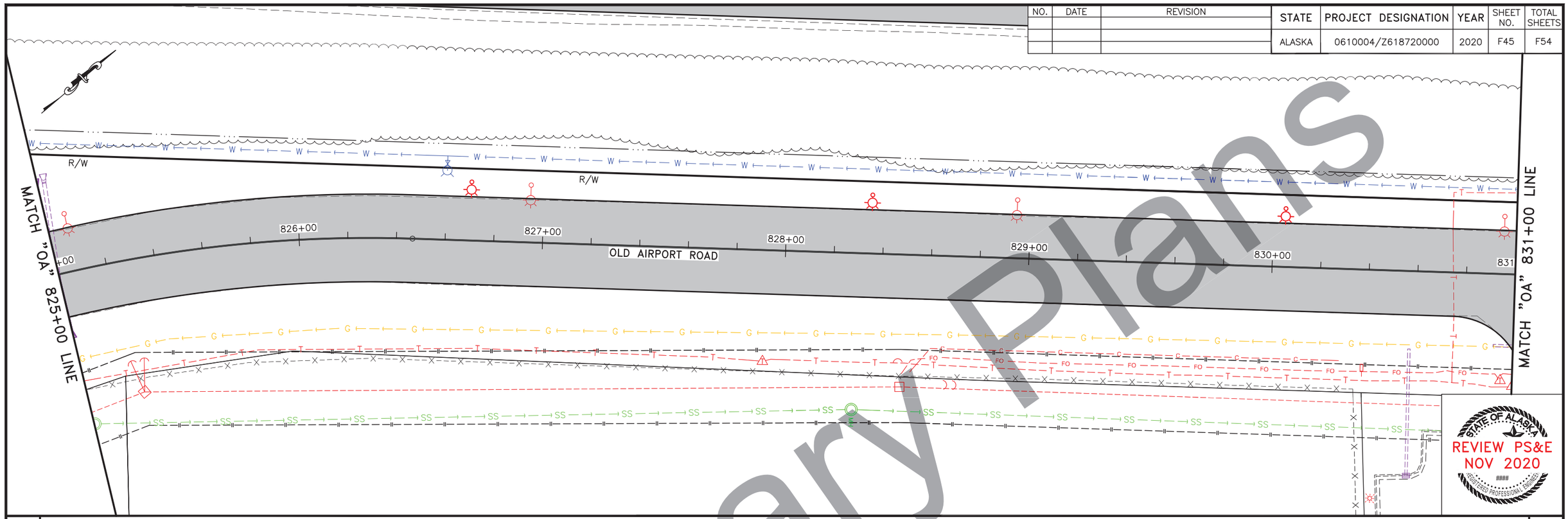
444 442 440 438 436 434 432 430 428

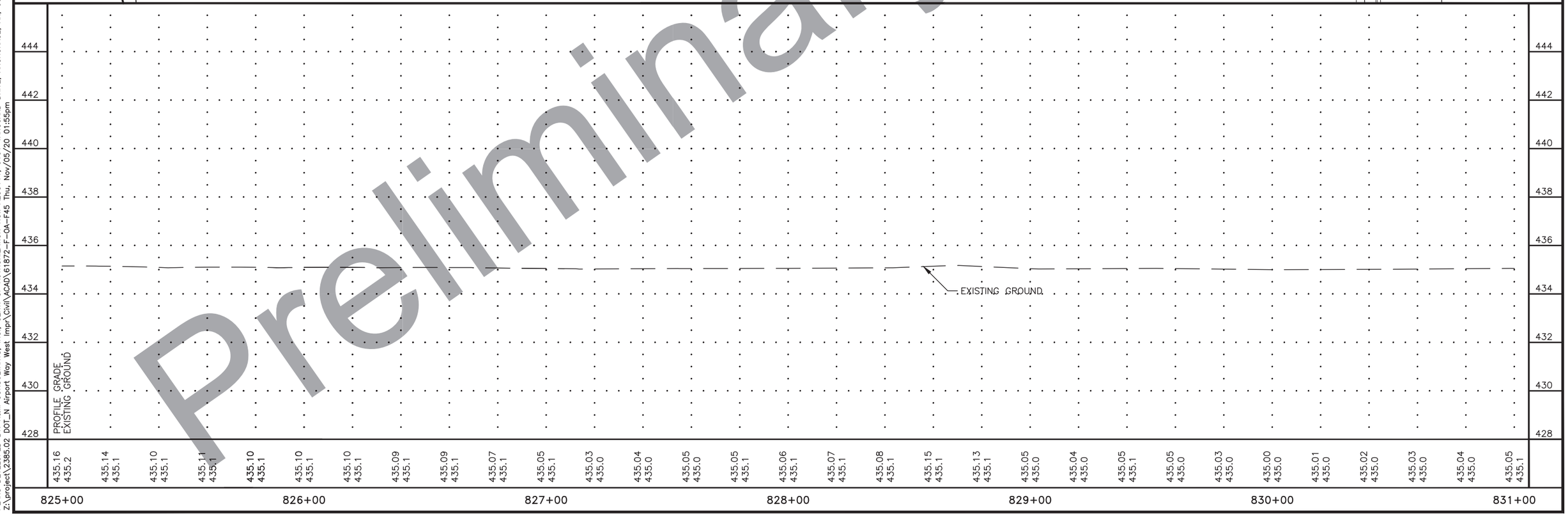
Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-OA-F44 Thu, Nov/05/20 01:54pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F45	F54





STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-OA-F45 Thu, Nov/05/20 01:55pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F46	F54

MATCH "OA" 831+00 LINE

MATCH "OA" 837+00 LINE

R/W

R/W

831+00 832+00 833+00 834+00 835+00 836+00 837+00

OLD AIRPORT ROAD



444 442 440 438 436 434 432 430 428

PROFILE GRADE
EXISTING GROUND

EXISTING WATER

EXISTING GROUND

435.05 / 435.1	435.00 / 435.0	434.95 / 434.9	434.95 / 434.9	434.96 / 435.0	434.97 / 435.0	434.97 / 435.0	434.97 / 435.0	435.00 / 435.0	435.03 / 435.0	435.04 / 435.0	435.01 / 435.0	434.99 / 435.0	435.00 / 435.0	435.00 / 435.0	435.01 / 435.0	435.03 / 435.0	435.00 / 435.0	434.97 / 435.0	434.98 / 435.0	434.98 / 435.0	435.00 / 435.0	435.04 / 435.0	435.06 / 435.1	435.07 / 435.1	435.09 / 435.1	435.11 / 435.1	435.13 / 435.1	435.15 / 435.1	435.17 / 435.2	435.18 / 435.2

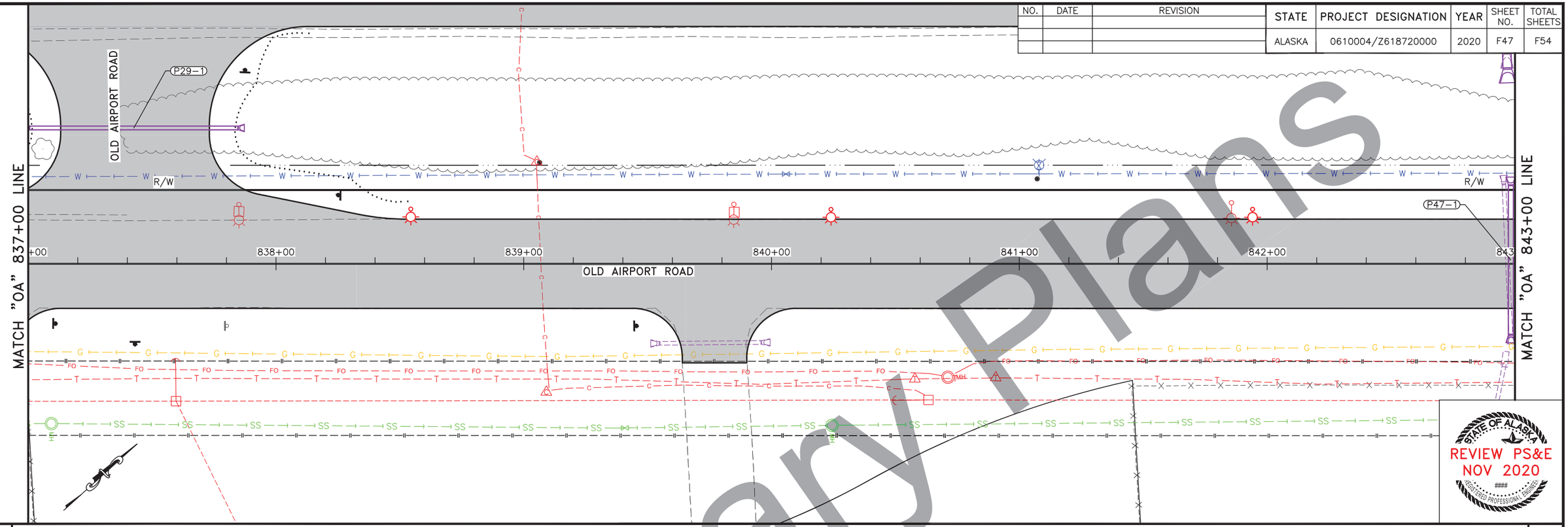
831+00 832+00 833+00 834+00 835+00 836+00 837+00

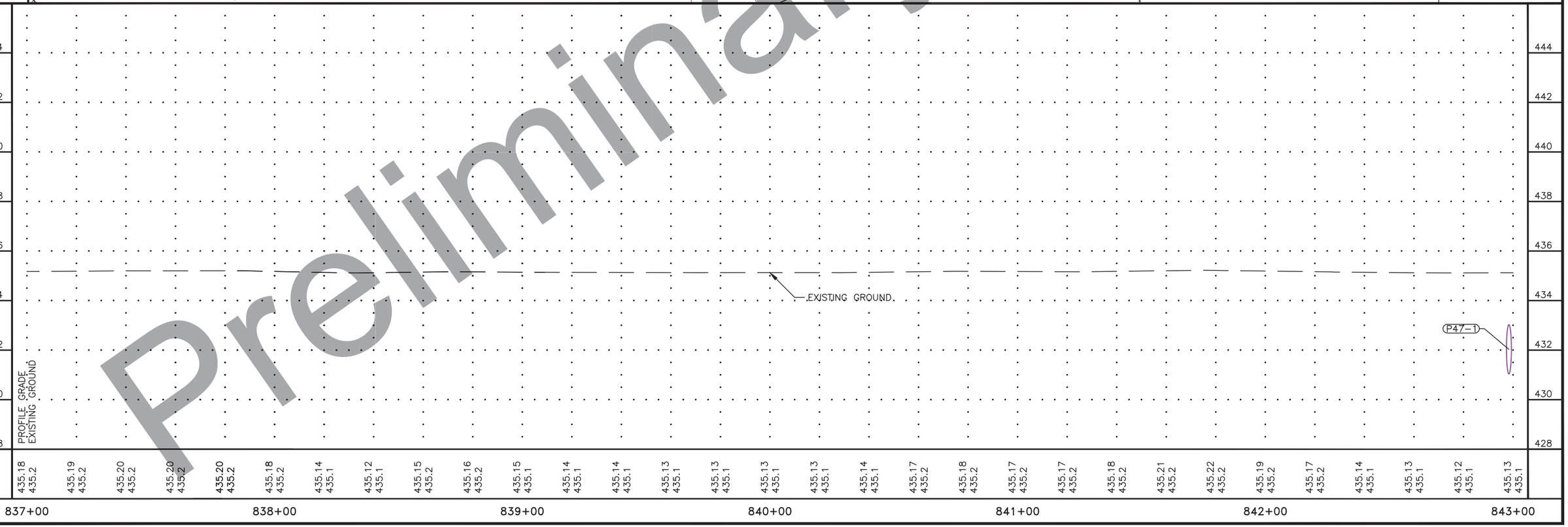
Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-OA-F46 Thu, Nov/05/20 01:55pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F47	F54





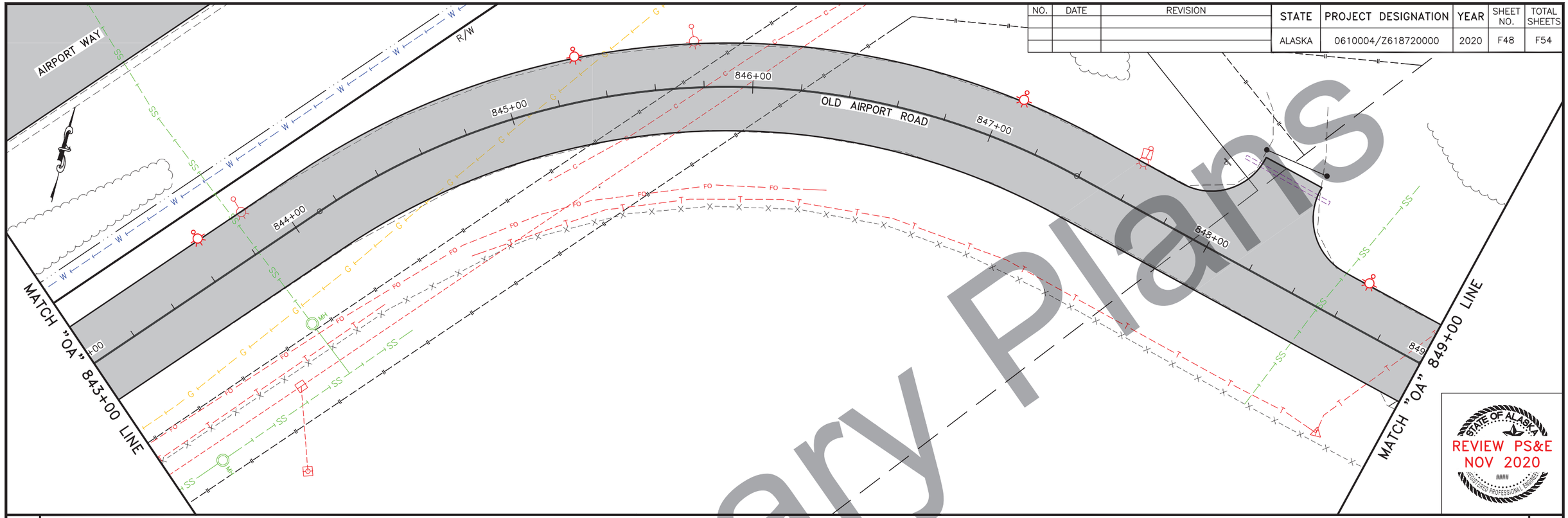
STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-OA-F47 Thu, Nov/05/20 01:55pm

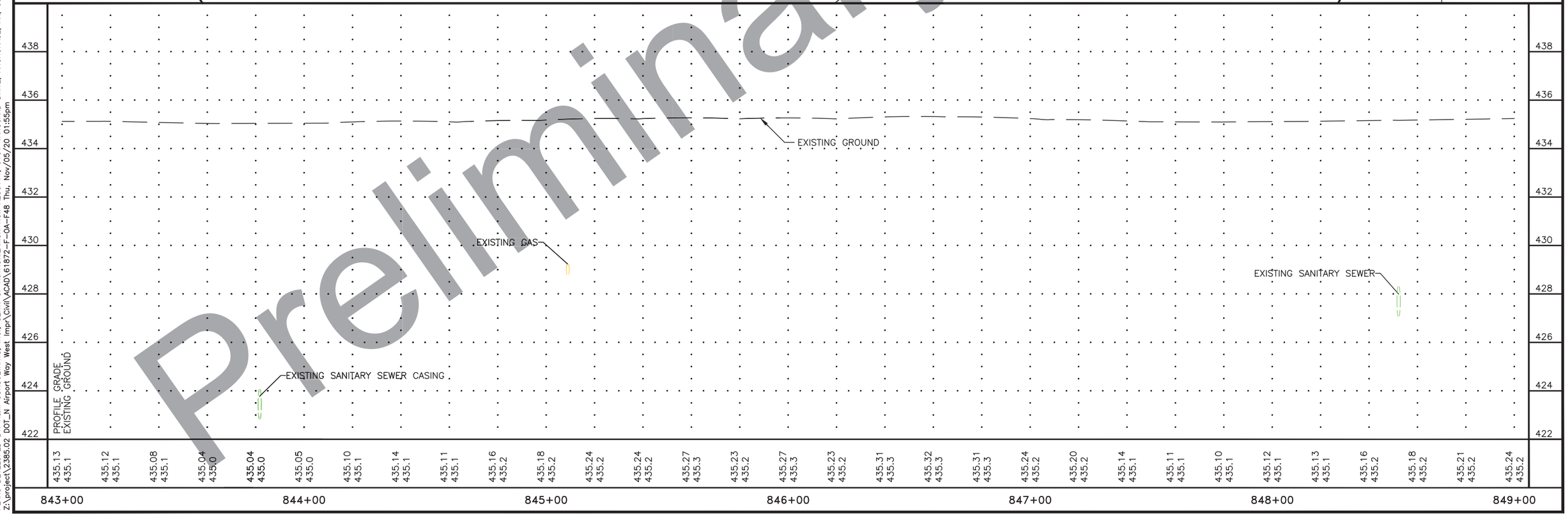
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F48	F54



Preliminary Plans

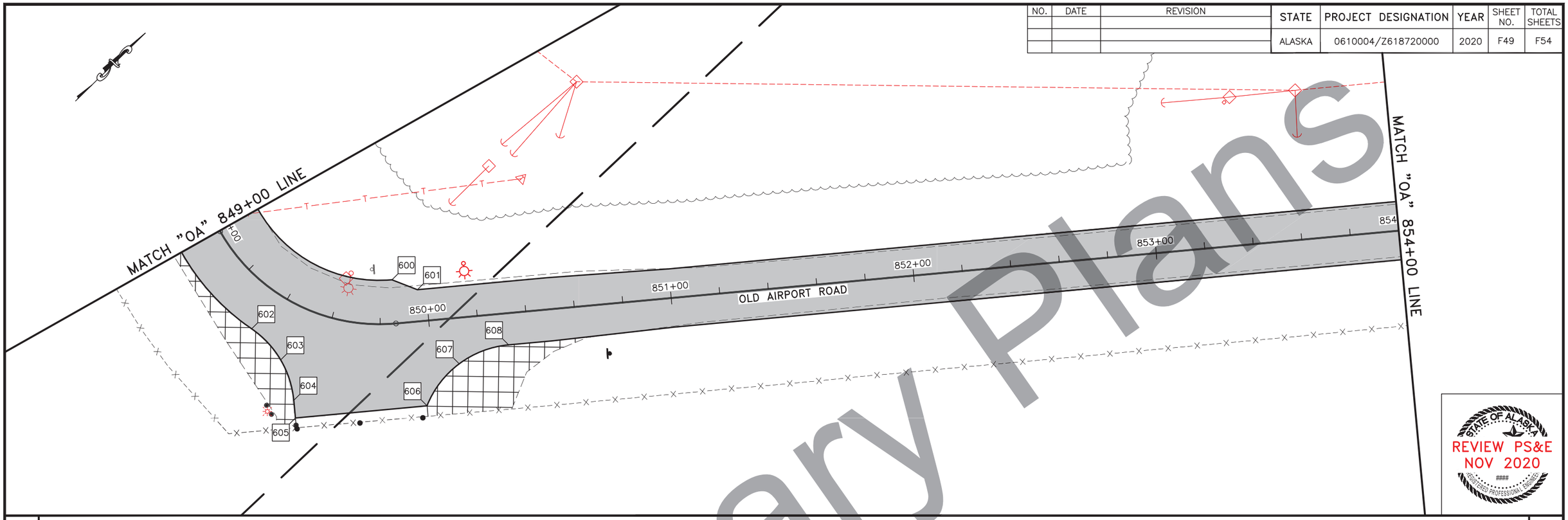
STATE OF ALASKA
REVIEW PS&E
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NO.	DATE	REVISION

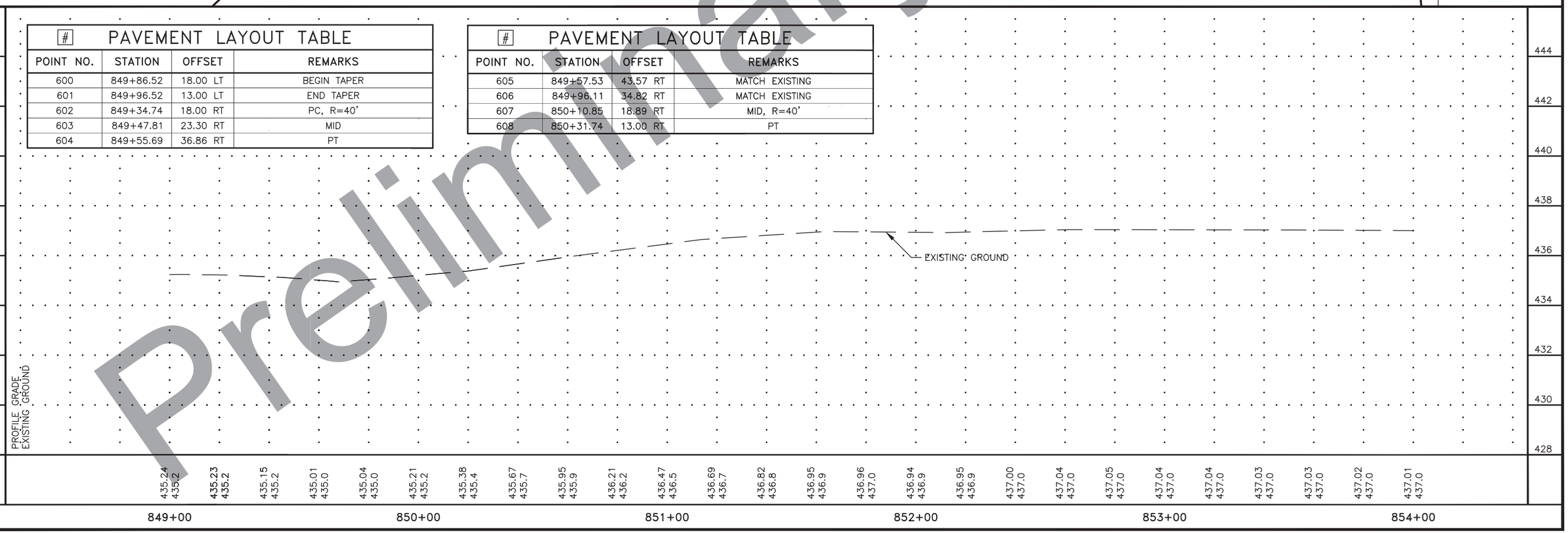
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F49	F54



STATE OF ALASKA
REVIEW PS&E
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#	POINT NO.	STATION	OFFSET	REMARKS
	600	849+86.52	18.00 LT	BEGIN TAPER
	601	849+96.52	13.00 LT	END TAPER
	602	849+34.74	18.00 RT	PC, R=40'
	603	849+47.81	23.30 RT	MID
	604	849+55.69	36.86 RT	PT

#	POINT NO.	STATION	OFFSET	REMARKS
	605	849+57.53	43.57 RT	MATCH EXISTING
	606	849+96.11	34.82 RT	MATCH EXISTING
	607	850+10.85	18.89 RT	MID, R=40'
	608	850+31.74	13.00 RT	PT

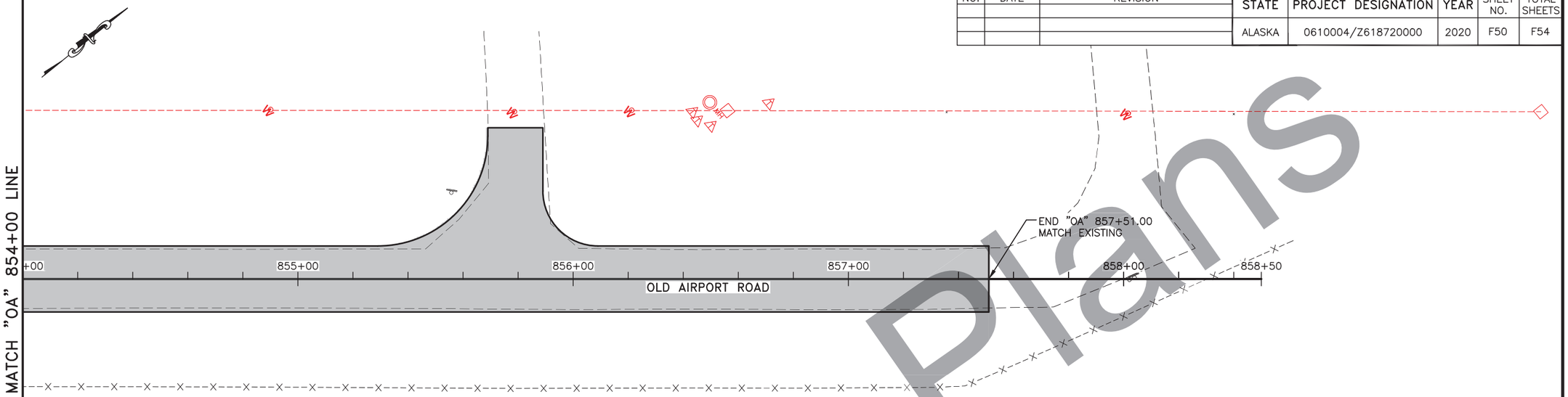


Preliminary Plans

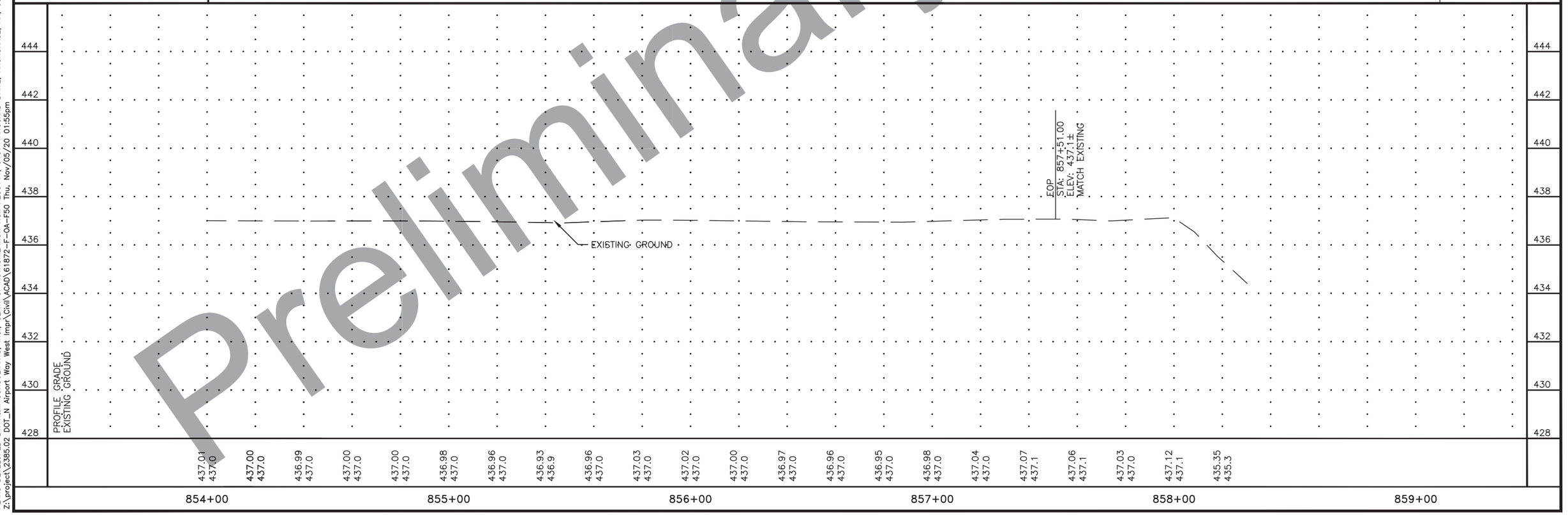
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-OA-F49 Thu, Nov/05/20 01:55pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F50	F54



STATE OF ALASKA
REVIEW PS&E
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REGISTERED PROFESSIONAL ENGINEER

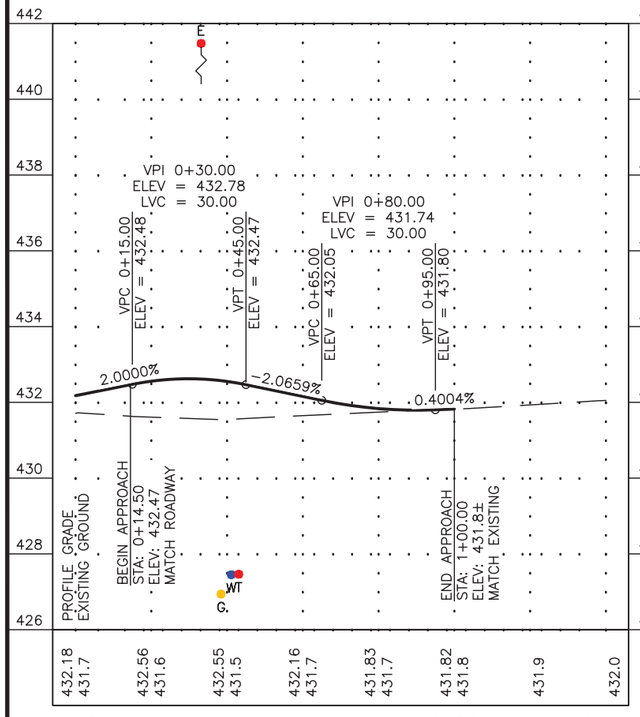


Preliminary Plans

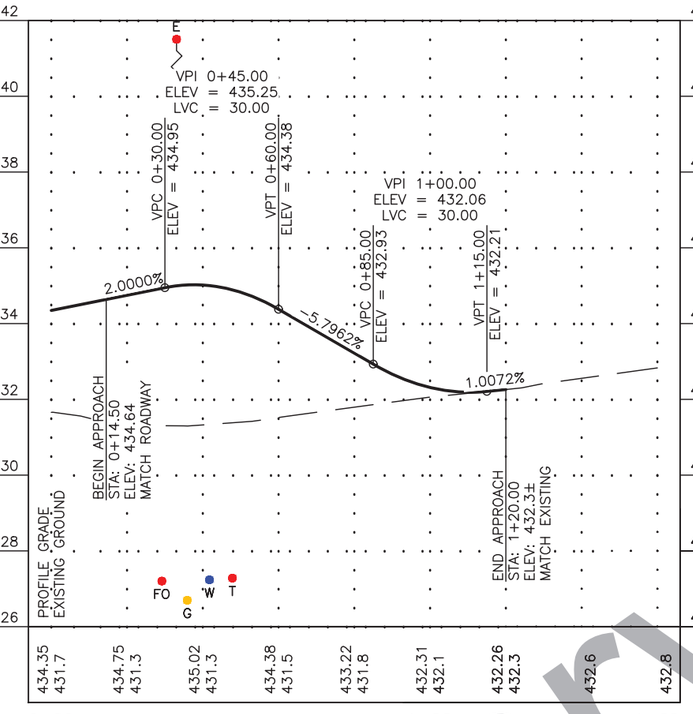
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-OA-F50 Thu, Nov/05/20 01:55pm

NO.	DATE	REVISION

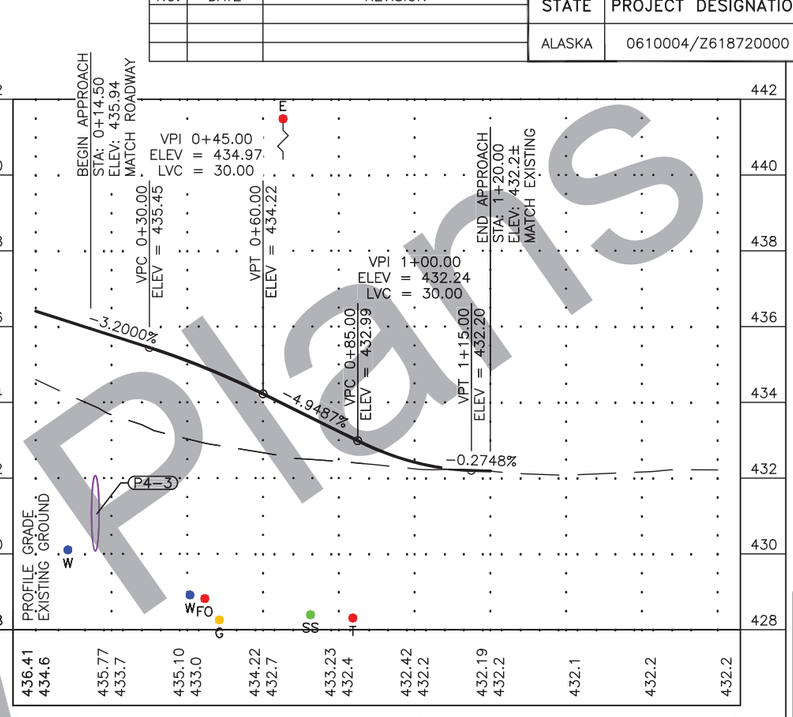
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F51	F54



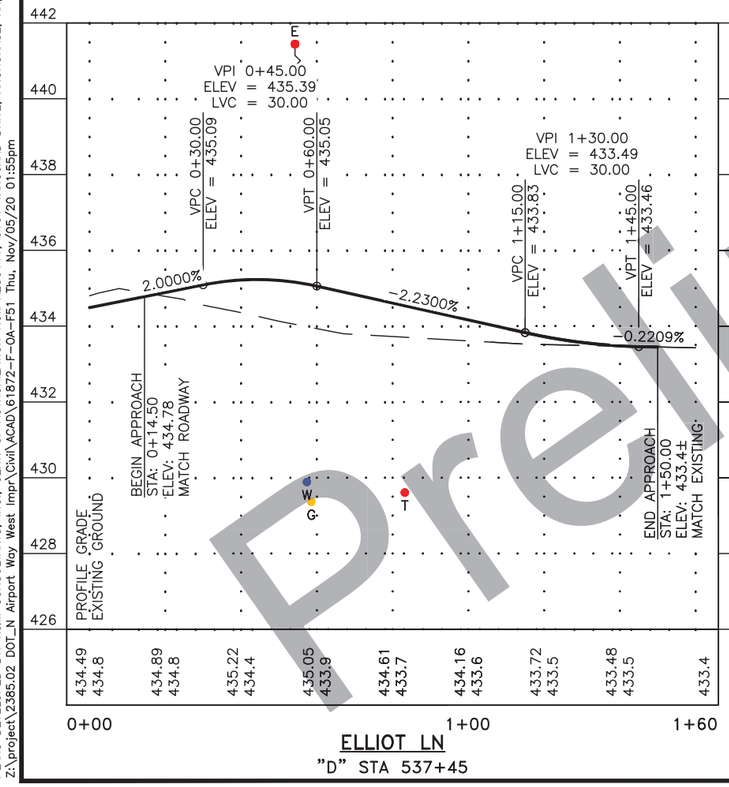
BROADMOOR AVE
"D" STA 506+63



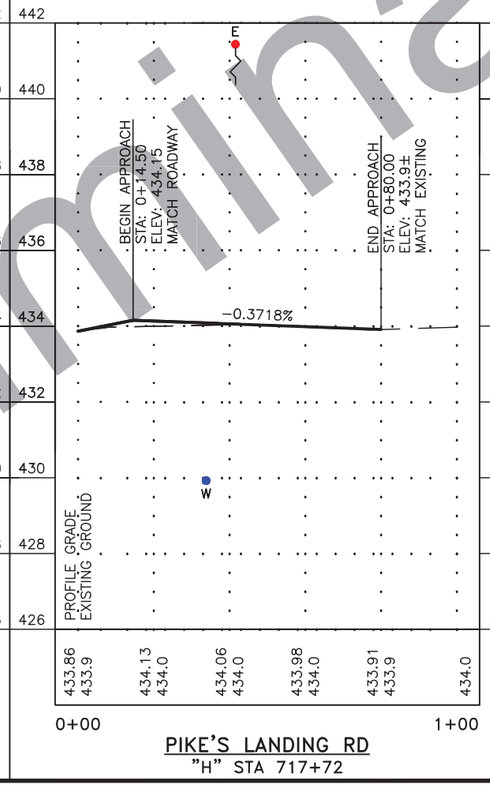
DISCOVERY DR
"D" STA 513+17



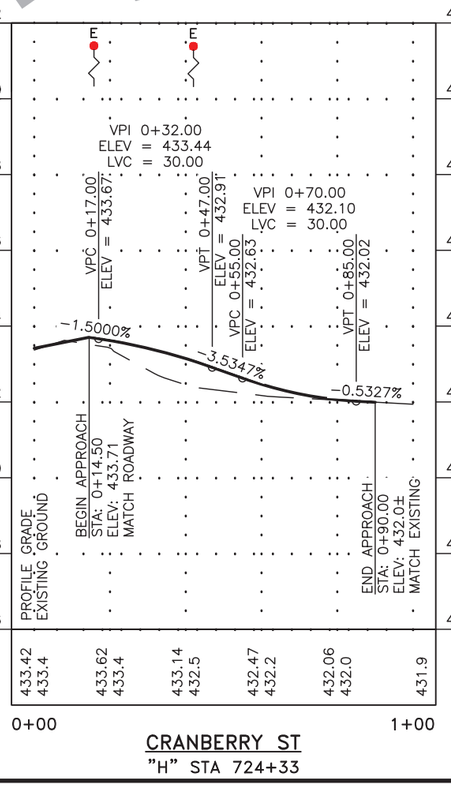
KING RD
"D" STA 520+16



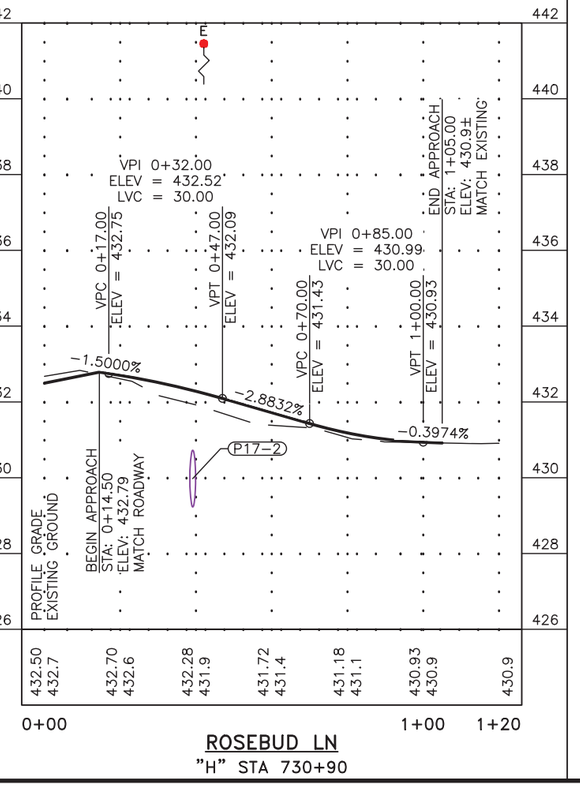
ELLIOT LN
"D" STA 537+45



PIKE'S LANDING RD
"H" STA 717+72



CRANBERRY ST
"H" STA 724+33

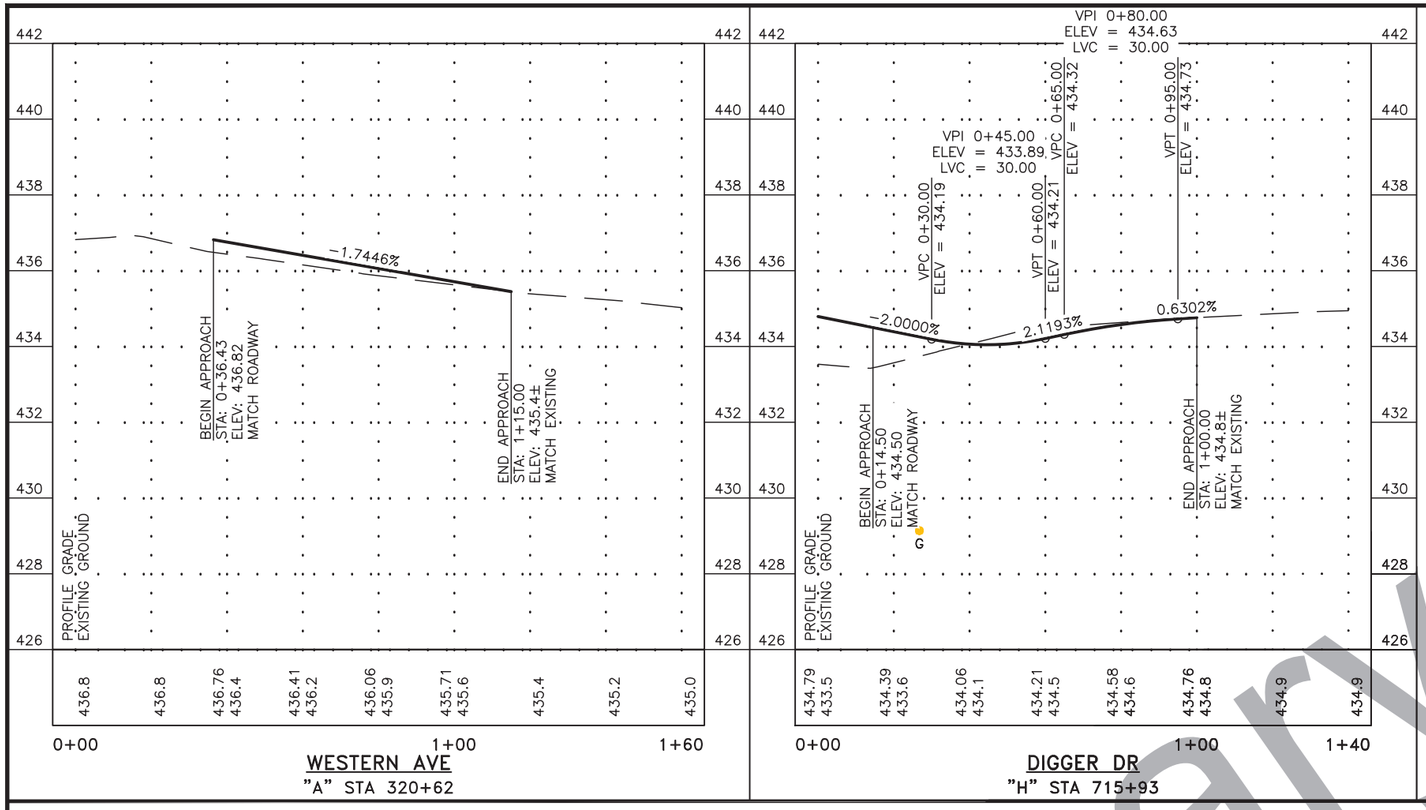


ROSEBUD LN
"H" STA 730+90

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

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WESTERN AVE
"A" STA 320+62

DIGGER DR
"H" STA 715+93

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F52	F54

STATE OF ALASKA
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Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-OA-F52 Thu, Nov/05/20 01:55pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F53	F54

CULVERT SUMMARY

SHEET	NAME	ALIGNMENT	INLET			OUTLET			SLOPE	LENGTH (LF)					REMARKS
			STATION	OFFSET	INVERT	STATION	OFFSET	INVERT		603.0001.0012 CSP 12 INCH	603.0001.0018 CSP 18 INCH	603.0001.0024 CSP 24 INCH	603.0001.0030 CSP 30 INCH	603.0002.0042 42x29 INCH CSP ARCH	
F3	P3–1	D	510+45.0	35.8 LT	431.05	509+99.0	35.8 LT	430.91	0.30%		46				
F3	P3–2	D	511+79.4	36.2 LT	431.41	511+39.4	36.2 LT	430.42	2.48%		40				
F7	P7–1	D	532+61.7	38.5 LT	432.25	532+21.7	38.5 LT	432.06	0.48%		40				
F7	P7–2	D	534+14.0	34.0 LT	432.59	533+78.0	34.0 LT	432.48	0.30%		36				
F7	P7–3	D	536+15.3	34.1 LT	432.11	535+69.3	34.1 LT	431.94	0.37%		46				
F10	P10–1	P	607+25.6	114.8 RT	430.95	607+21.3	13.2 LT	429.98	0.75%					128	UNDER AIRPORT WAY
F11	P11–1	P LOOP	621+80.0	15.6 RT	432.64	621+80.0	8.3 LT	431.40	5.18%		24				
F13	P13–5	H	708+66.7	33.2 LT	430.28	708+66.7	31.6 RT	430.08	0.30%		65				
F15	P15–1	H	717+43.6	24.0 RT	430.00	717+42.1	40.0 LT	429.62	0.59%				64		
F15	P15–2	H	718+83.3	32.7 LT	431.11	719+09.3	32.7 LT	431.03	0.30%		26				
F15	P15–3	H	720+53.9	34.2 LT	430.49	720+29.9	34.2 LT	430.42	0.30%		24				
F15	P15–4	H	720+99.3	34.4 LT	430.38	721+23.3	34.4 LT	430.31	0.30%		24				
F16	P16–1	H	725+16.2	34.7 LT	430.28	725+40.2	34.7 LT	430.21	0.30%		24				
F17	P17–1	H	729+65.3	34.9 LT	429.43	729+95.3	34.9 LT	429.34	0.30%		30				
F17	P17–2	H	731+11.0	39.2 LT	429.29	730+69.0	39.2 LT	429.16	0.30%		42				
F17	P17–3	H	732+32.5	36.0 LT	429.54	732+02.5	36.0 LT	429.23	1.05%		30				
F17	P17–4	H	733+95.3	32.6 LT	430.54	733+67.1	32.6 LT	430.43	0.40%		28				
F19	P19–1	H	739+15.6	31.9 RT	425.38	739+10.9	62.0 LT	424.92	0.49%				94		
F20	P20–1	H	744+97.0	34.6 LT	429.20	744+47.0	34.6 LT	429.05	0.30%		50				
F20	P20–2	H	746+07.1	28.5 LT	431.09	745+80.4	42.1 LT	430.69	1.32%		30				
F20	P20–3	H	746+02.4	28.0 RT	430.42	745+82.6	28.0 RT	430.34	0.40%		20				
F29	P29–1	OA	837+84.6	54.8 LT	431.92	837+00.6	54.8 LT	431.65	0.32%		84				
F42	P42–1	OA	807+39.0	25.0 RT	434.79	807+85.6	25.0 RT	434.82	0.00%	47					
F43	P43–1	OA	817+76.6	61.6 RT	431.90	818+47.0	82.3 RT	431.68	0.30%			74			UNDER DALE ROAD
F44	P44–1	OA	824+99.2	23.3 RT	430.84	824+99.2	36.7 LT	429.73	1.85%			60			
F47	P47–1	OA	842+98.3	28.5 RT	431.15	842+98.3	31.5 LT	430.91	0.40%			60			
TOTAL										47	709	194	158	128	

Preliminary Plans

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CULVERT SUMMARY



NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	F54	F54

CULVERT SUMMARY

SHEET	NAME	END SECTIONS (EACH)					REMARKS
		603.0003.0012	603.0003.0018	603.0003.0024	603.0003.0030	603.0004.0042	
		CSP 12 INCH	CSP 18 INCH	CSP 24 INCH	CSP 30 INCH	42x29 INCH CSP ARCH	
F3	P3–1		2				
F3	P3–2		2				
F7	P7–1		2				
F7	P7–2		2				
F7	P7–3		2				
F10	P10–1					2	
F11	P11–1		2				
F13	P13–5		2				
F15	P15–1				2		
F15	P15–2		2				
F15	P15–3		2				
F15	P15–4		2				
F16	P16–1		2				
F17	P17–1		2				
F17	P17–2		2				
F17	P17–3		2				
F17	P17–4		2				
F19	P19–1				2		
F20	P20–1		2				
F20	P20–2		2				
F20	P20–3		2				
F29	P29–1		2				
F42	P42–1	2					
F43	P43–1			2			
F44	P44–1			2			
F47	P47–1			2			
TOTAL		2	38	6	4	2	

Preliminary Plans

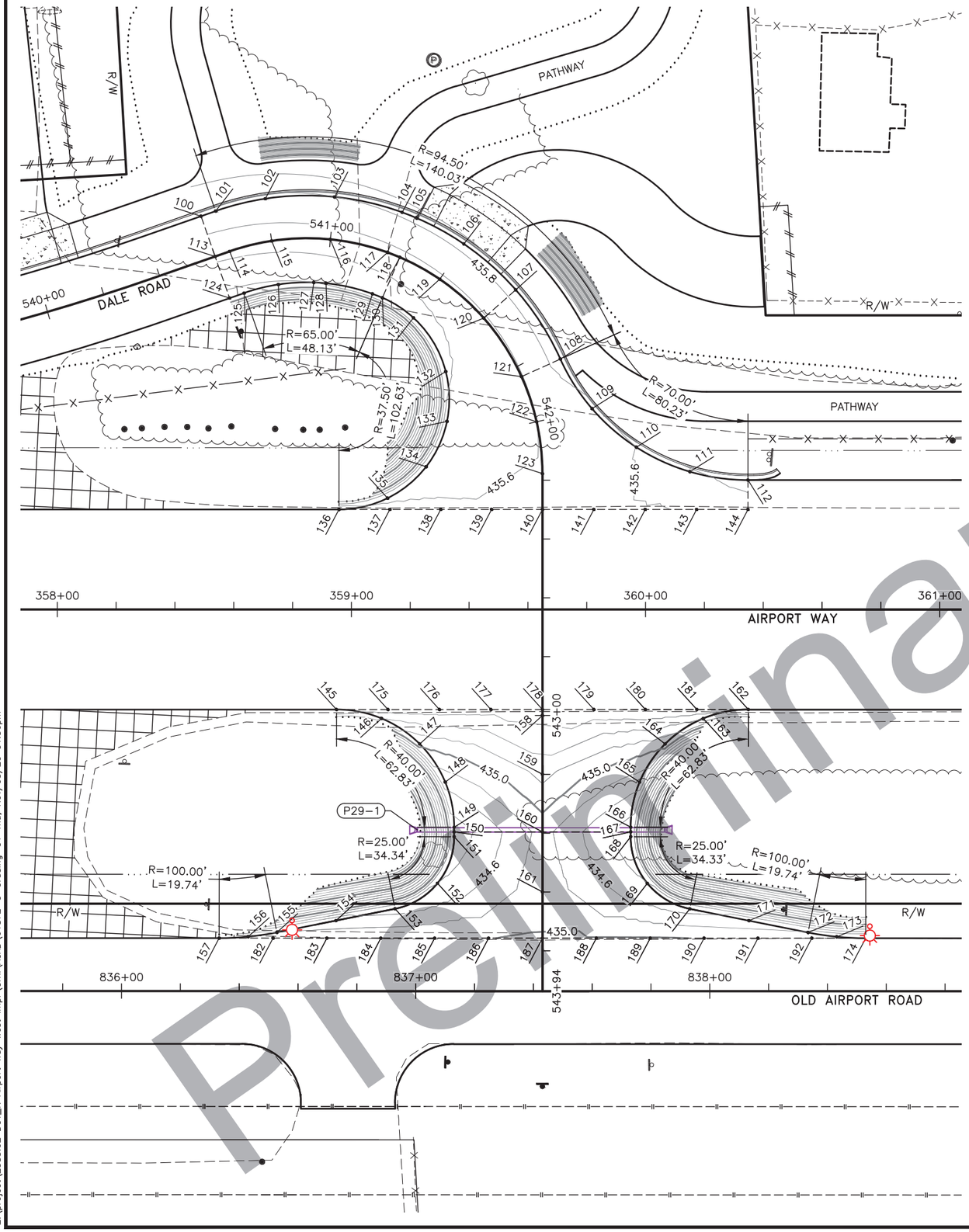
CULVERT SUMMARY

STATE OF ALASKA
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REGISTERED PROFESSIONAL ENGINEER

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-F-0A-F54 Thu, Nov/05/20 01:55pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	G1	G5



DALE RD–AIRPORT WAY–OLD AIRPORT RD

POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
100	540+60.00	14.50 LT	435.73	
101	540+65.24	14.50 LT	435.74	PC
102	540+80.00	14.50 LT	435.76	
103	541+00.00	14.50 LT	435.80	
104	541+20.00	14.50 LT	435.83	
105	541+24.51	14.50 LT	435.84	
106	541+40.00	14.50 LT	435.85	
107	541+60.00	14.50 LT	435.87	VPT
108	541+83.78	14.50 LT	435.88	PRC
109	541+99.82	19.34 LT	435.74	
110	542+11.37	32.29 LT	435.60	MIDPOINT
111	542+17.37	50.11 LT	435.46	
112	542+19.98	69.89 LT	435.31	PT
113	540+60.00	CL	435.44	
114	540+65.24	CL	435.45	PC
115	540+80.00	CL	435.48	
116	541+00.00	CL	435.52	
117	541+20.00	CL	435.54	
118	541+24.47	CL	435.55	GB
119	541+40.00	CL	435.57	
120	541+60.00	CL	435.58	VPT
121	541+83.78	CL	435.59	
122	542+00.00	CL	435.60	
123	542+17.76	CL	435.61	PT
124	540+60.00	15.00 RT	435.14	
125	540+65.24	15.00 RT	435.15	PC
126	540+80.00	15.00 RT	435.18	
127	540+94.86	15.00 RT	435.20	MIDPOINT
128	541+00.00	15.00 RT	435.21	
129	541+20.00	15.00 RT	435.24	
130	541+24.47	15.00 RT	435.25	PCC, GB
131	541+40.00	15.89 RT	435.30	
132	541+66.99	21.48 RT	435.38	
133	541+89.20	29.24 RT	435.44	MIDPOINT
134	542+13.16	39.45 RT	435.51	
135	542+26.14	52.65 RT	435.57	
136	542+29.98	69.17 RT	435.64	PT
137	542+29.98	51.88 RT	435.65	
138	542+29.98	34.59 RT	435.64	
139	542+29.98	17.29 RT	435.62	
140	542+29.98	CL	435.61	
141	542+29.98	17.47 LT	435.61	
142	542+29.98	34.94 LT	435.61	
143	542+29.98	52.42 LT	435.57	
144	542+29.98	69.89 LT	435.51	
145	542+97.98	70.00 RT	435.75	PC
146	543+01.02	54.69 RT	435.39	

DALE RD–AIRPORT WAY–OLD AIRPORT RD

POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
147	543+09.69	41.72 RT	435.03	MIDPOINT
148	543+22.67	33.04 RT	434.67	
149	543+37.98	30.00 RT	434.31	PT
150	543+39.60	30.00 RT	434.27	LOW POINT
151	543+41.22	30.00 RT	434.28	PC
152	543+57.07	35.67 RT	434.40	MIDPOINT
153	543+65.74	50.10 RT	434.51	PT
154	543+69.75	70.20 RT	434.65	
155	543+73.77	90.29 RT	434.79	PC
156	543+75.22	100.05 RT	434.86	MIDPOINT
157	543+75.71	109.90 RT	434.93	PT
158	543+00.00	CL	435.66	
159	543+20.00	CL	435.26	
160	543+39.60	CL	434.87	GB
161	543+60.00	CL	434.95	
162	542+97.98	70.00 LT	435.79	PC
163	543+01.02	54.69 LT	435.42	
164	543+09.69	41.72 LT	435.05	MIDPOINT
165	543+22.67	33.04 LT	434.68	
166	543+37.98	30.00 LT	434.31	PT
167	543+39.61	30.00 LT	434.27	LOW POINT
168	543+41.24	30.00 LT	434.28	PC
169	543+57.08	35.67 LT	434.40	MIDPOINT
170	543+65.75	50.09 LT	434.52	PT
171	543+69.77	70.19 LT	434.67	
172	543+73.80	90.29 LT	434.81	PC
173	543+75.25	100.05 LT	434.88	MIDPOINT
174	543+75.74	109.90 LT	434.95	PT
175	542+97.98	52.50 RT	435.71	
176	542+97.98	35.00 RT	435.69	
177	542+97.98	17.50 RT	435.68	
178	542+97.98	CL	435.70	
179	542+97.98	17.50 LT	435.75	
180	542+97.98	35.00 LT	435.80	
181	542+97.98	52.50 LT	435.79	
182	543+75.71	91.59 RT	434.94	
183	543+75.71	73.27 RT	434.96	
184	543+75.72	54.95 RT	434.98	
185	543+75.72	36.63 RT	434.99	
186	543+75.72	18.32 RT	435.00	
187	543+75.72	CL	435.01	
188	543+75.73	18.32 LT	435.01	
189	543+75.73	36.63 LT	435.01	
190	543+75.73	54.95 LT	434.99	
191	543+75.73	73.27 LT	434.95	
192	543+75.74	91.58 LT	434.92	

Preliminary

NOTES:

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2. CONTOURS SHOWN ARE FINISH GRADE PAVEMENT AT 0.2' INTERVALS.

0 20 40
SCALE IN FEET

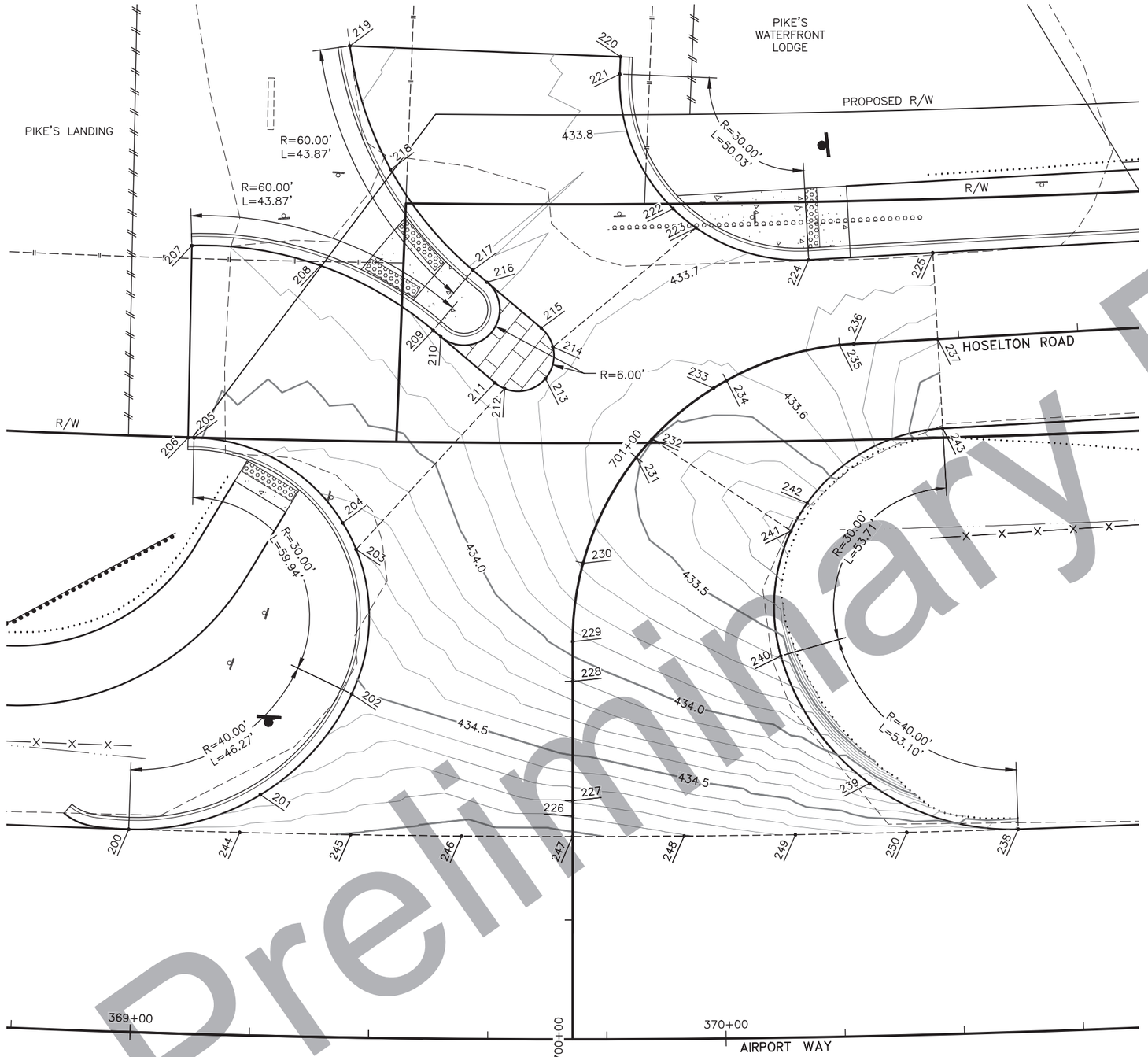
GRADING

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-G-Grading-G1 Thu, Nov/05/20 01:56pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	G2	G5



HOSELTON RD–AIRPORT WAY

POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
200	700+35.23	74.46 LT	434.94	PC
201	700+41.01	52.39 LT	434.73	MIDPOINT
202	700+57.91	37.07 LT	434.52	PCC
203	700+75.56	37.70 LT	434.30	GB
204	700+77.75	40.79 LT	434.26	MIDPOINT
205	700+81.32	68.56 LT	433.99	PT
206	700+81.21	69.52 LT	433.98	ME
207	700+93.09	81.82 LT	433.92	PC, ME
208	700+96.65	61.80 LT	433.85	MIDPOINT
209	700+97.60	40.07 LT	433.78	PT
210	700+97.52	38.39 LT	433.78	BEGIN CURB NOSE
211	700+96.85	26.52 LT	433.74	PC
212	700+96.92	24.64 LT	433.74	GB
213	701+00.69	20.16 LT	433.71	MIDPOINT
214	701+04.07	22.68 LT	433.74	GB
215	701+04.71	26.26 LT	433.76	PT
216	701+04.32	38.17 LT	433.81	END CURB NOSE
217	701+04.24	41.28 LT	433.80	PC
218	701+05.54	62.93 LT	433.74	MIDPOINT
219	701+09.29	82.71 LT	433.67	PT, ME
220	701+25.01	56.66 LT	433.84	ME
221	701+24.41	54.05 LT	433.83	PC
222	701+23.81	29.78 LT	433.75	MIDPOINT
223	701+25.25	25.31 LT	433.73	GB
224	701+37.18	14.85 LT	433.67	PT
225	701+56.49	14.50 LT	433.60	
226	700+37.45	CL	434.89	VPC
227	700+40.00	CL	434.79	
228	700+60.00	CL	434.11	
229	700+66.69	CL	433.94	PC
230	700+80.00	CL	433.68	
231	701+00.00	CL	433.51	
232	701+04.03	CL	433.50	LOW POINT
233	701+17.45	CL	433.56	VPT
234	701+20.00	CL	433.58	
235	701+40.00	CL	433.75	
236	701+42.39	CL	433.77	PT
237	701+56.49	CL	433.89	
238	700+35.24	74.74 RT	434.71	PC
239	700+42.91	49.83 RT	434.15	MIDPOINT
240	700+64.30	34.93 RT	433.59	PCC
241	701+14.06	27.13 RT	433.13	LOW POINT
242	701+23.72	24.48 RT	433.31	MIDPOINT
243	701+56.49	15.00 RT	434.19	PT
244	700+34.69	55.85 LT	434.95	
245	700+34.31	37.23 LT	435.01	
246	700+34.08	18.62 LT	435.05	
247	700+34.00	CL	435.03	
248	700+34.08	18.69 RT	434.91	
249	700+34.31	37.37 RT	434.78	
250	700+34.70	56.06 RT	434.68	

NOTES:

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0 10 20
SCALE IN FEET

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STATE OF ALASKA
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####

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-G-Grading-G2 Thu, Nov/05/20 01:56pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	G3	G5

BOAT ST–EOP

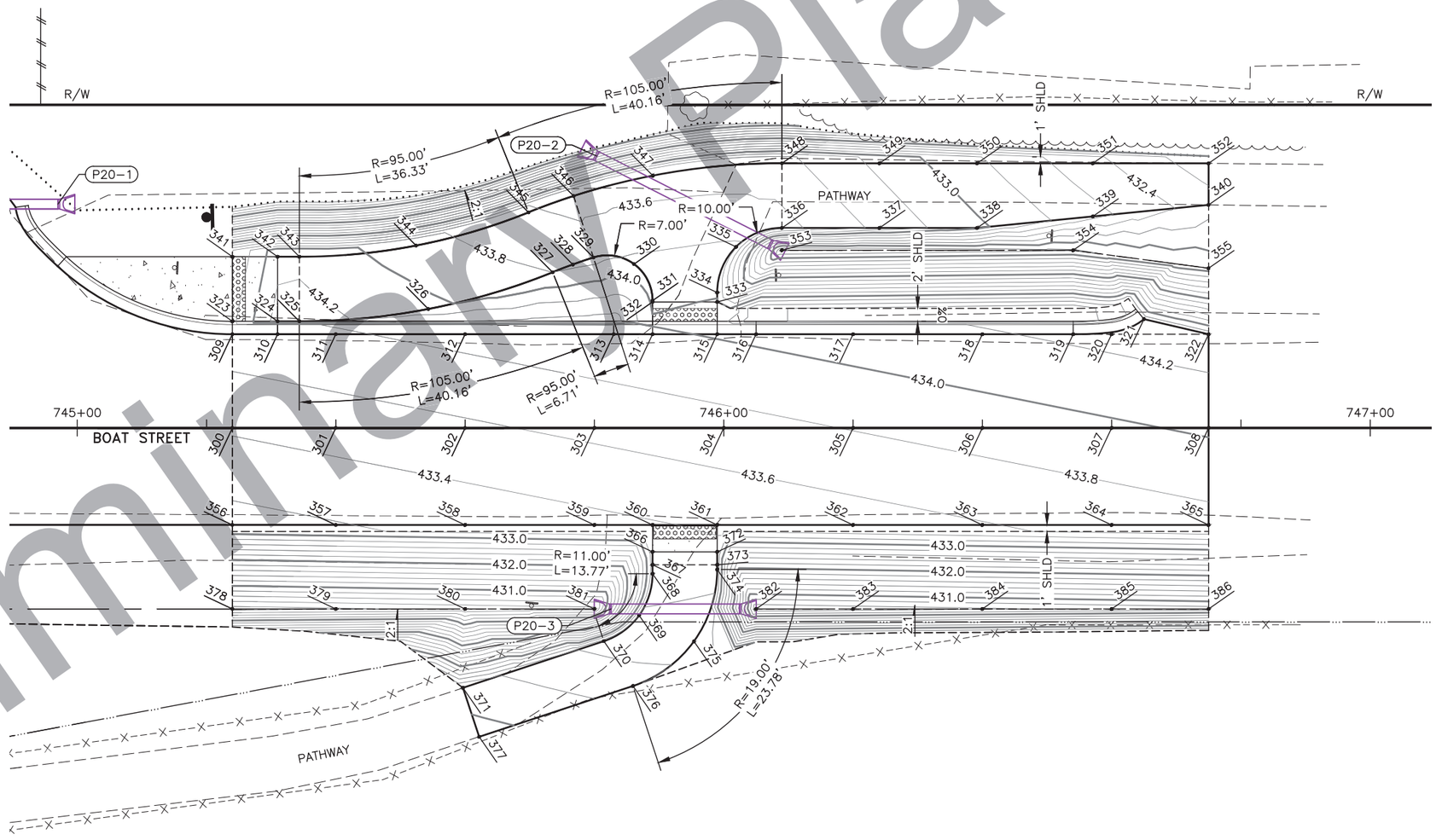
POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
300	745+24.00	CL	433.42	
301	745+40.00	CL	433.49	
302	745+60.00	CL	433.57	
303	745+80.00	CL	433.65	
304	746+00.00	CL	433.73	
305	746+20.00	CL	433.81	
306	746+40.00	CL	433.89	
307	746+60.00	CL	433.97	
308	746+75.00	CL	434.03	ME
309	745+24.00	14.50 LT	433.71	CURB RAMP
310	745+31.00	14.50 LT	433.74	CURB RAMP
311	745+40.00	14.50 LT	433.78	
312	745+60.00	14.50 LT	433.86	
313	745+83.00	14.50 LT	433.95	CURB TRANSITION
314	745+89.00	14.50 LT	433.97	PATHWAY LANDING
315	745+99.00	14.50 LT	434.01	PATHWAY LANDING
316	746+05.00	14.50 LT	434.04	CURB TRANSITION
317	746+20.00	14.50 LT	434.10	
318	746+40.00	14.50 LT	434.18	
319	746+54.05	14.50 LT	434.24	BEGIN CURB TERMINATION
320	746+60.00	14.50 LT	434.26	
321	746+65.00	16.84 LT	434.33	END CURB TERMINATION
322	746+75.00	14.50 LT	434.32	
323	745+24.00	16.50 LT	433.76	CURB RAMP
324	745+31.00	16.50 LT	434.28	CURB RAMP
325	745+34.36	16.50 LT	434.30	PC, GB
326	745+54.32	18.41 LT	434.05	MIDPOINT
327	745+73.54	24.09 LT	433.80	PRC
328	745+76.68	25.28 LT	433.76	MIDPOINT
329	745+79.85	26.37 LT	433.72	PCC, GB
330	745+86.12	25.36 LT	433.84	MIDPOINT
331	745+89.00	19.71 LT	433.97	PT
332	745+89.00	19.50 LT	433.97	PATHWAY LANDING
333	745+99.00	19.50 LT	434.01	PATHWAY LANDING
334	745+99.00	20.95 LT	433.98	PC
335	746+01.93	28.02 LT	433.83	MIDPOINT
336	746+09.00	30.95 LT	433.67	PT, GB
337	746+24.10	30.95 LT	433.35	
338	746+39.19	30.95 LT	433.04	
339	746+57.10	32.74 LT	432.67	
340	746+75.00	34.53 LT	432.29	ME
341	745+24.00	26.50 LT	433.61	CURB RAMP
342	745+31.00	26.50 LT	434.13	CURB RAMP
343	745+34.36	26.50 LT	434.15	PC, GB
344	745+52.41	28.23 LT	433.89	MIDPOINT
345	745+69.81	33.36 LT	433.62	PRC
346	745+76.78	35.89 LT	433.52	GB
347	745+89.04	39.04 LT	433.50	MIDPOINT
348	746+09.00	40.95 LT	433.47	PT, GB
349	746+24.10	40.95 LT	433.15	
350	746+39.19	40.95 LT	432.84	
351	746+57.10	40.95 LT	432.47	
352	746+75.00	40.95 LT	432.09	ME
353	746+09.00	27.50 LT	431.60	DITCH
354	746+54.05	27.50 LT	431.78	DITCH
355	746+75.00	24.72 LT	431.89	DITCH, ME
356	745+24.00	15.00 RT	433.12	
357	745+40.00	15.00 RT	433.19	
358	745+60.00	15.00 RT	433.27	
359	745+80.00	15.00 RT	433.35	
360	745+89.00	15.00 RT	433.38	PATHWAY LANDING
361	745+99.00	15.00 RT	433.42	PATHWAY LANDING
362	746+20.00	15.00 RT	433.51	
363	746+40.00	15.00 RT	433.59	
364	746+60.00	15.00 RT	433.67	

BOAT ST–EOP

POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
365	746+75.00	15.00 RT	433.73	
366	745+89.00	19.17 RT	433.32	PATHWAY LANDING
367	745+89.00	21.17 RT	433.29	GB
368	745+89.00	22.55 RT	433.31	PC
369	745+86.92	29.00 RT	433.42	MIDPOINT
370	745+81.45	33.00 RT	433.53	PT
371	745+59.66	40.20 RT	433.90	ME
372	745+99.00	19.17 RT	433.36	PATHWAY LANDING
373	745+99.00	21.17 RT	433.33	GB
374	745+99.00	21.89 RT	433.34	PC
375	745+95.40	33.02 RT	433.52	MIDPOINT
376	745+85.96	39.93 RT	433.70	PT
377	745+62.17	47.80 RT	434.09	ME

BOAT ST–EOP

POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
378	745+24.00	28.00 RT	430.10	DITCH
379	745+40.00	28.00 RT	430.17	DITCH
380	745+60.00	28.00 RT	430.25	DITCH
381	745+80.00	28.00 RT	430.33	DITCH
382	746+05.00	28.00 RT	430.43	DITCH
383	746+20.00	28.00 RT	430.49	DITCH
384	746+40.00	28.00 RT	430.57	DITCH
385	746+60.00	28.00 RT	430.65	DITCH
386	746+75.00	28.00 RT	430.71	DITCH, ME



NOTES:

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GRADING

STATE OF ALASKA
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Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-G-Grading-G3 Thu, Nov/05/20 01:56pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	G4	G5

WEIN LAKE RD–OLD AIRPORT RD

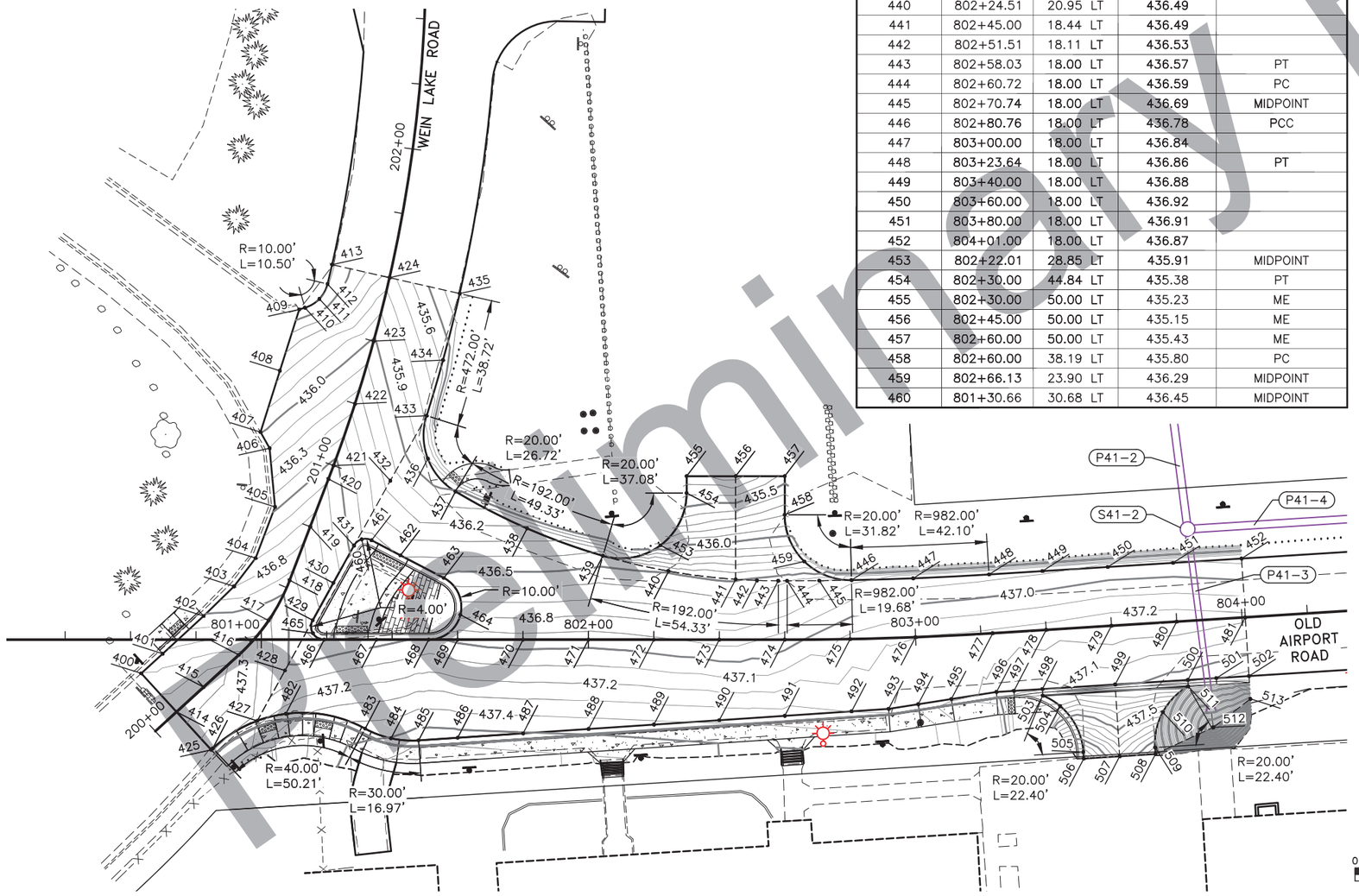
POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
400	800+63.27	10.29 RT	437.30	ME
401	800+69.85	4.28 RT	437.22	ME
402	800+82.33	7.25 LT	437.01	ME
403	800+91.62	16.30 LT	436.80	ME
404	800+98.23	24.94 LT	436.69	ME
405	801+04.17	40.59 LT	436.48	ME
406	801+02.52	58.55 LT	436.10	ME
407	800+99.72	63.47 LT	435.99	ME
408	801+05.64	82.23 LT	435.77	ME
409	801+11.55	100.99 LT	435.41	ME
410	801+13.31	101.50 LT	435.40	PC
411	801+17.74	104.19 LT	435.40	MIDPOINT
412	801+20.23	108.75 LT	435.39	PCC
413	801+21.62	114.67 LT	435.39	PCC
414	800+74.04	22.07 RT	437.47	ME
415	800+82.32	14.49 RT	437.46	
416	800+93.09	4.65 RT	437.33	PC
417	801+02.20	5.85 LT	437.11	MIDPOINT
418	801+08.65	18.17 LT	436.94	PT
419	801+14.92	34.55 LT	436.75	

WEIN LAKE RD–OLD AIRPORT RD

POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
420	801+20.52	49.15 LT	436.58	PC
421	801+22.06	53.23 LT	436.54	
422	801+28.61	72.13 LT	436.26	
423	801+34.32	91.29 LT	436.02	
424	801+39.17	110.70 LT	435.75	
425	800+84.66	33.69 RT	437.23	ME
426	800+85.14	33.24 RT	437.23	PC
427	800+98.72	24.81 RT	437.17	GB
428	801+07.21	9.44 RT	437.02	GB
429	801+15.70	5.93 LT	436.86	PC, GB
430	801+22.01	17.36 LT	436.66	
431	801+28.32	28.78 LT	436.46	PC, GB
432	801+39.43	48.62 LT	436.15	GB
433	801+50.53	68.47 LT	435.78	PRC
434	801+55.54	85.48 LT	435.58	
435	801+60.63	105.83 LT	435.31	PCC
436	801+50.92	55.36 LT	435.89	MIDPOINT
437	801+59.33	45.31 LT	436.01	PCC
438	801+81.24	34.02 LT	436.22	MIDPOINT
439	802+04.42	25.64 LT	436.43	PCC
440	802+24.51	20.95 LT	436.49	
441	802+45.00	18.44 LT	436.49	
442	802+51.51	18.11 LT	436.53	
443	802+58.03	18.00 LT	436.57	PT
444	802+60.72	18.00 LT	436.59	PC
445	802+70.74	18.00 LT	436.69	MIDPOINT
446	802+80.76	18.00 LT	436.78	PCC
447	803+00.00	18.00 LT	436.84	
448	803+23.64	18.00 LT	436.86	PT
449	803+40.00	18.00 LT	436.88	
450	803+60.00	18.00 LT	436.92	
451	803+80.00	18.00 LT	436.91	
452	804+01.00	18.00 LT	436.87	
453	802+22.01	28.85 LT	435.91	MIDPOINT
454	802+30.00	44.84 LT	435.38	PT
455	802+30.00	50.00 LT	435.23	ME
456	802+45.00	50.00 LT	435.15	ME
457	802+60.00	50.00 LT	435.43	ME
458	802+60.00	38.19 LT	435.80	PC
459	802+66.13	23.90 LT	436.29	MIDPOINT
460	801+30.66	30.68 LT	436.45	MIDPOINT

WEIN LAKE RD–OLD AIRPORT RD

POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
461	801+33.67	30.39 LT	436.43	PT
462	801+42.50	25.78 LT	436.39	
463	801+55.76	18.87 LT	436.52	PC
464	801+60.84	7.62 LT	436.77	MIDPOINT
465	801+15.76	1.97 LT	436.88	MIDPOINT
466	801+19.20	CL	436.90	PT
467	801+35.17	CL	436.96	
468	801+51.13	CL	437.02	PT
469	801+60.00	CL	436.98	
470	801+80.00	CL	436.94	
471	802+00.00	CL	436.95	
472	802+20.00	CL	436.92	
473	802+40.00	CL	436.86	
474	802+60.00	CL	436.94	
475	802+80.00	CL	437.13	
476	803+00.00	CL	437.20	
477	803+23.64	CL	437.22	PT
478	803+40.00	CL	437.24	
479	803+60.00	CL	437.28	
480	803+80.00	CL	437.27	
481	804+01.00	CL	437.23	
482	801+07.45	22.66 RT	437.24	MIDPOINT
483	801+31.73	27.20 RT	437.44	PRC
484	801+39.65	30.16 RT	437.51	MIDPOINT
485	801+48.08	30.79 RT	437.57	PT, GB
486	801+60.00	29.99 RT	437.55	
487	801+80.00	28.65 RT	437.51	
488	802+00.00	27.31 RT	437.46	
489	802+20.00	25.97 RT	437.42	
490	802+40.00	24.63 RT	437.38	
491	802+60.00	23.29 RT	437.34	
492	802+80.00	22.11 RT	437.30	
493	802+91.11	21.64 RT	437.27	
494	803+00.00	20.53 RT	437.25	CURB TRANSITION
495	803+10.00	19.39 RT	437.23	CURB TRANSITION
496	803+23.64	18.00 RT	437.18	CURB TRANSITION
497	803+29.00	18.00 RT	437.16	CURB TRANSITION
498	803+37.72	18.00 RT	437.12	CURB TRANSITION
499	803+60.00	18.00 RT	437.03	
500	803+82.28	18.00 RT	436.94	
501	803+91.00	18.00 RT	436.91	CURB TRANSITION
502	804+01.00	18.00 RT	436.87	CURB TRANSITION
503	803+37.72	20.00 RT	437.12	PC
504	803+42.83	23.56 RT	437.22	CURB TRANSITION
505	803+49.00	38.00 RT	438.26	PT
506	803+49.00	40.00 RT	438.39	ME
507	803+60.00	40.00 RT	437.81	CL, ME
508	803+71.00	40.00 RT	438.22	ME
509	803+71.00	38.00 RT	438.11	PT
510	803+74.05	27.38 RT	437.53	MIDPOINT
511	803+82.28	20.00 RT	436.94	PC
512	803+89.14	32.95 RT	433.95	DITCH LOW POINT
513	804+01.00	25.00 RT	434.85	DITCH



NOTES:

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REVIEW PS&E
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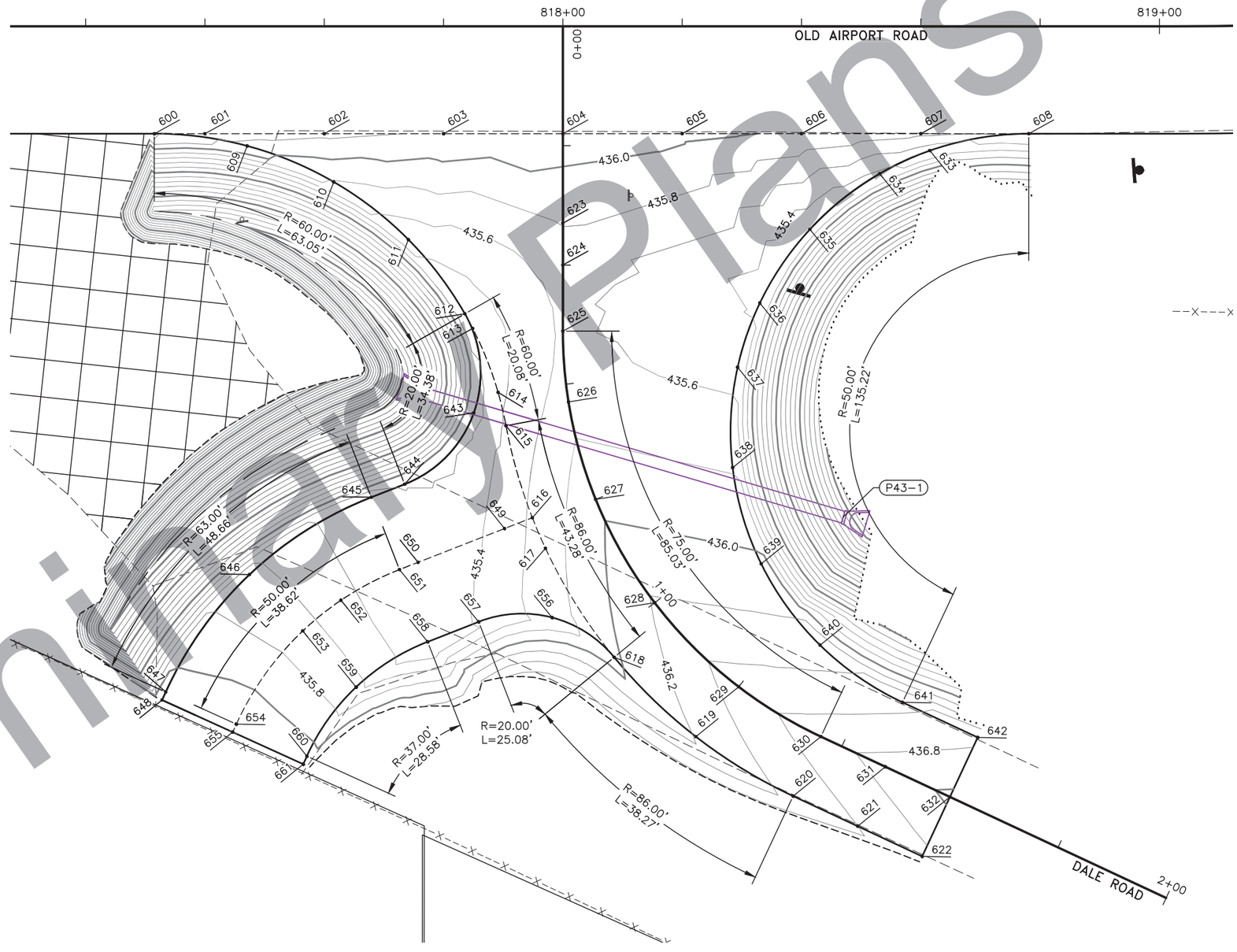
Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	G5	G5

OLD AIRPORT RD–DALE RD				
POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
600	817+31.55	18.00 RT	436.42	PC
601	817+40.00	18.00 RT	436.37	
602	817+60.00	18.00 RT	436.25	
603	817+80.00	18.00 RT	436.17	
604	818+00.00	18.00 RT	436.11	CL
605	818+20.00	18.00 RT	436.05	
606	818+40.00	18.00 RT	435.96	
607	818+60.00	18.00 RT	435.85	
608	818+78.10	18.00 RT	435.75	PT
609	817+47.08	20.06 RT	436.10	
610	817+61.59	26.09 RT	435.79	MIDPOINT
611	817+74.10	35.75 RT	435.47	VPC
612	817+83.57	48.19 RT	435.29	PCC
613	817+84.90	50.64 RT	435.29	
614	817+89.14	61.35 RT	435.36	VPT
615	817+90.47	66.94 RT	435.43	PRC
616	817+94.88	82.36 RT	435.63	CL
617	817+97.08	87.49 RT	435.70	MIDPOINT
618	818+08.60	105.75 RT	435.97	PCC, PRC
619	818+22.30	119.05 RT	436.21	MIDPOINT
620	818+38.59	129.01 RT	436.45	PT
621	818+49.41	134.06 RT	436.60	
622	818+60.23	139.12 RT	436.75	ME
623	818+00.00	33.00 RT	435.81	VPC
624	818+00.00	40.00 RT	435.70	
625	818+00.00	51.10 RT	435.63	PC, LOW POINT
626	818+00.94	62.95 RT	435.72	VPT
627	818+05.50	79.29 RT	435.95	
628	818+15.39	96.61 RT	436.22	
629	818+29.49	110.71 RT	436.49	
630	818+43.25	119.04 RT	436.71	PT
631	818+54.07	124.10 RT	436.87	
632	818+64.88	129.15 RT	437.04	ME
633	818+61.52	20.83 RT	435.50	
634	818+53.10	24.70 RT	435.36	VPT
635	818+41.42	34.03 RT	435.25	LOW POINT
636	818+33.02	46.38 RT	435.36	VPT
637	818+29.29	57.16 RT	435.53	MIDPOINT
638	818+28.46	73.96 RT	435.78	
639	818+33.25	90.09 RT	436.04	
640	818+43.11	103.71 RT	436.29	
641	818+56.94	113.30 RT	436.54	PC
642	818+69.54	119.19 RT	436.75	ME
643	817+85.07	64.78 RT	435.11	MIDPOINT, LOW POINT
644	817+73.48	76.76 RT	435.19	PT
645	817+67.89	78.94 RT	435.22	PC
646	817+47.47	91.89 RT	435.65	MIDPOINT
647	817+33.43	111.58 RT	436.08	PT
648	817+32.82	112.92 RT	436.11	ME
649	817+90.23	84.18 RT	435.49	VPC
650	817+75.73	89.83 RT	435.28	LOW POINT
651	817+72.61	91.05 RT	435.29	PC
652	817+62.81	96.19 RT	435.46	VPT
653	817+56.40	101.33 RT	435.67	MIDPOINT
654	817+45.26	116.95 RT	436.17	PT
655	817+44.65	118.29 RT	436.20	ME
656	817+98.20	99.10 RT	435.70	MIDPOINT
657	817+85.88	99.83 RT	435.42	PT
658	817+77.34	103.16 RT	435.22	PC
659	817+65.34	110.77 RT	435.65	MIDPOINT
660	817+57.10	122.33 RT	436.08	PT
661	817+56.49	123.67 RT	436.12	ME



0 10 20
SCALE IN FEET

NOTES:

1. ELEVATIONS SHOWN ARE FINISH GRADE, LIP OF CURB, OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
2. CONTOURS SHOWN ARE FINISH GRADE PAVEMENT AT 0.2' INTERVALS.

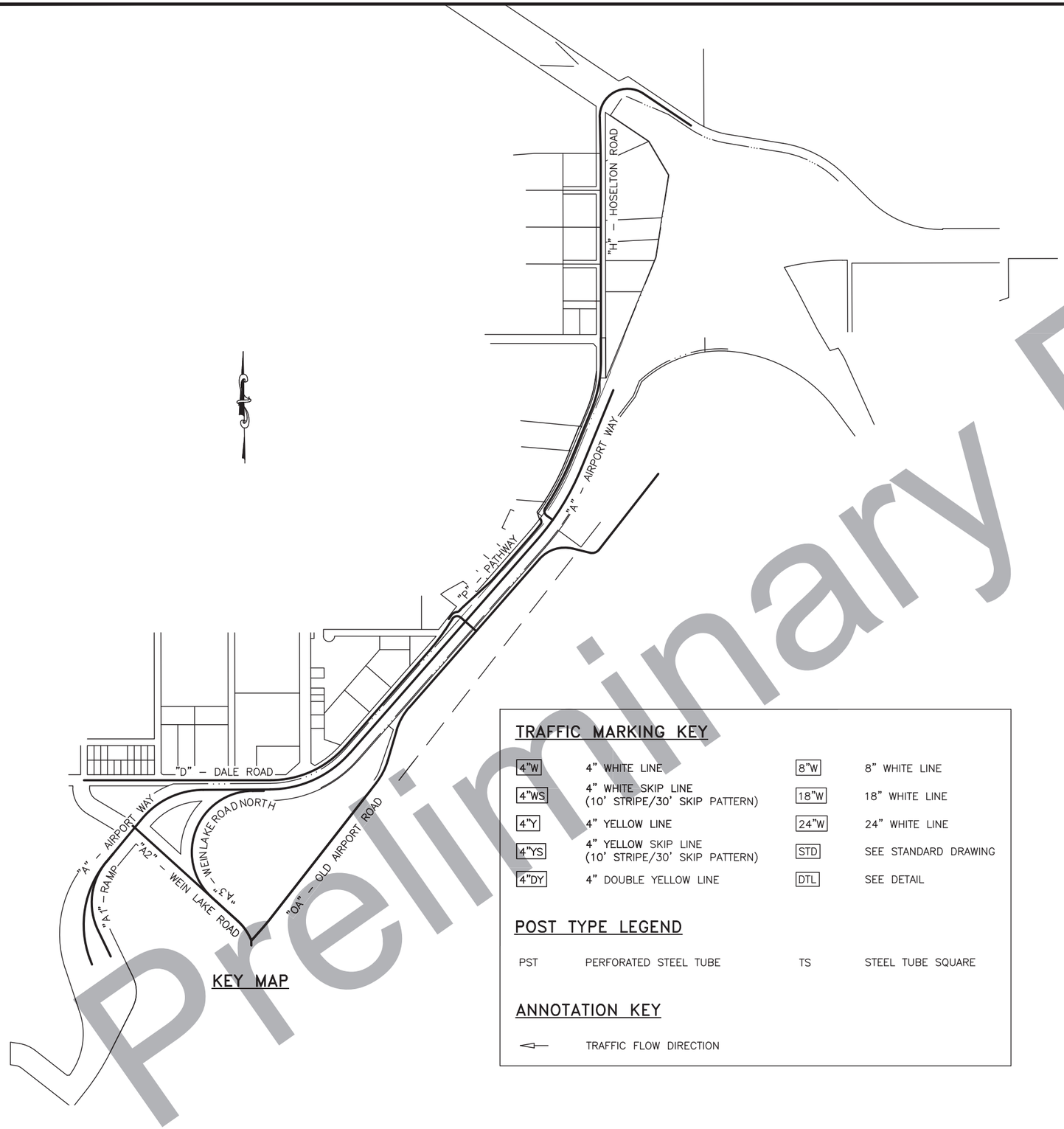
GRADING

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Preliminary Plans

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0610004/Z618720000	2020	H1	H56



KEY MAP

TRAFFIC MARKING KEY

4"W	4" WHITE LINE	8"W	8" WHITE LINE
4"WS	4" WHITE SKIP LINE (10' STRIPE/30' SKIP PATTERN)	18"W	18" WHITE LINE
4"Y	4" YELLOW LINE	24"W	24" WHITE LINE
4"YS	4" YELLOW SKIP LINE (10' STRIPE/30' SKIP PATTERN)	STD	SEE STANDARD DRAWING
4"DY	4" DOUBLE YELLOW LINE	DTL	SEE DETAIL

POST TYPE LEGEND

PST	PERFORATED STEEL TUBE	TS	STEEL TUBE SQUARE

ANNOTATION KEY

TRAFFIC FLOW DIRECTION

SIGNING NOTES:

1. MOUNT SIGNS THAT PROJECT OVER OR WITHIN 2 FEET OF ANY PATHWAY OR SIDEWALK WITH A MOUNTING HEIGHT OF 8 FEET.
2. MOUNTING HEIGHTS ARE PER STANDARD DRAWING S–05.02 UNLESS OTHERWISE NOTED.
3. DETERMINE POST LENGTHS IN THE FIELD. DO NOT EXTEND POSTS ABOVE TOP OF SIGN.
4. INSTALL PST SIGN POSTS WITH SLEEVE TYPE CONCRETE FOUNDATION PER STANDARD DRAWING S–30.05. ATTACH THE SIGN POST TO THE SLEEVE USING GALVANIZED 3/8" BOLT, NUT, SPLIT LOCK WASHER, AND TWO FLAT WASHERS.
5. INSTALL "TUBE POST SIGN BRACING" AS SHOWN ON STANDARD DRAWING S–01.02 ON ALL SIGNS MOUNTED ON A SINGLE PST POST AND HAVING A HORIZONTAL DIMENSION OF 30 INCHES OR GREATER. INSTEAD OF THE 5/8" GALVANIZED BOLTS AND NYLON LOCKING NUTS SHOWN ON STANDARD DRAWING S–01.02, USE GALVANIZED 3/8" BOLTS, SPLIT LOCK WASHERS AND NUTS. STAINLESS STEEL FASTENER HARDWARE MAY BE USED INSTEAD OF GALVANIZED. 1/4" X 1 1/2" ALUMINUM ALLOY 6061–T6 BAR MAY ALSO BE USED TO FABRICATE SIGN BRACES.
6. INSTALL 48" DIAMOND WARNING SIGNS ON A SINGLE POST WITH A BRACE HAVING EFFECTIVE BRACE LENGTH OF 54" OR WITH THREE WIND FRAMING MEMBERS AS SHOWN ON STANDARD DRAWING S–00.12. THIS MODIFIES STANDARD DRAWING S–01.02.
7. ATTACH ALL SIGNS TO THEIR SUPPORTS WITH 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PST POSTS WITH ALUMINUM DRIVE RIVETS. WIND WASHERS ARE NOT REQUIRED WITH DRIVE RIVETS. INCLUDE SPLIT LOCK WASHERS WHEN BOLTS ARE USED.
8. INSTALL BIKE PATH SIGNS 3 TO 6 FEET FROM THE EDGE OF THE SHARED–USE PATH AND AT A MOUNTING HEIGHT OF 5 FEET. IF THE SIGN MUST BE LOCATED CLOSER THAN 3 FEET, INSTALL AT AN 8–FOOT MOUNTING HEIGHT.
9. SIGNS TO BE INSTALLED ON ELECTROLIERS MAY REQUIRE TEMPORARY INSTALLATION ON 2 1/2" PST UNTIL THE ELECTROLIERS ARE IN PLACE. THIS WORK IS SUBSIDIARY TO PAY ITEM 615.0001.0000.
10. STOP (R1–1) AND YIELD (R1–2) SIGN LOCATIONS, ESPECIALLY THOSE AT LARGE RADIUS INTERSECTIONS, MAY NEED ADJUSTMENT IN THE FIELD. THE ENGINEER SHALL APPROVE FINAL LOCATIONS.
11. MAINTAIN EXISTING SIGNS UNTIL NEW SIGNS ARE INSTALLED. DO NOT LEAVE DUPLICATE OR CONFLICTING SIGNING UP AT ANY TIME.
12. ALL SIGNS NOTED FOR REMOVAL AND REINSTALLATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE IF THEY ARE DAMAGED DURING THE RELOCATION EFFORT.
13. LOCATE AND PROTECT ALL NEW AND EXISTING UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO: PIPELINES, INTERCONNECT CABLES, SIGNAL SYSTEMS, LIGHTING SYSTEMS, STORM AND SANITARY SEWERS, WATER SYSTEMS, AND TELEPHONE AND ELECTRICAL CABLES, PRIOR TO INSTALLING SIGN POSTS. NOT ALL EXISTING UTILITIES MAY BE SHOWN ON THE PLANS.
14. DELIVER SALVAGED SIGN PANELS TO THE FAIRBANKS MAINTENANCE YARD LOCATED AT 2301 PEGER ROAD. ONE WEEK BEFORE THE PLANNED DELIVERY, CONTACT THE FAIRBANKS DISTRICT SUPERINTENDENT AT (907) 451–5276 FOR ARRANGEMENTS. REMAINING SALVAGED POSTS AND HARDWARE ARE PROPERTY OF THE CONTRACTOR. REMOVE AND DISPOSE OF EXISTING SIGN FOUNDATIONS.
15. COORDINATE THE REMOVAL AND RELOCATION OF THE BUS STOP SIGNS WITH THE FAIRBANKS NORTH STAR BOROUGH TRANSPORTATION DEPARTMENT ONE WEEK BEFORE THE PLANNED REMOVAL AND REINSTALLATION, CONTACT (907) 459–1002 FOR ARRANGEMENTS.
16. VERIFY MINIMUM VERTICAL CLEARANCE AT BRIDGES No. 1161 AND 1913 PRIOR TO SIGN FABRICATION. THE CLEARANCE DISPLAYED SHALL BE DETERMINED BY SUBTRACTING 3 INCHES FROM THE MINIMUM MEASURED CLEARANCE ROUNDED DOWN TO THE NEAREST INCH. REUSE EXISTING MOUNTING HARDWARE FOR W12–2a SIGNS.

STRIPING NOTES:

1. ALL PROPOSED PAVEMENT MARKINGS SHALL BE INLAID METHYL METHACRYLATE. THE THICKNESS SHALL BE IN ACCORDANCE TO THE FOLLOWING TABLE:

ALIGNMENT	"A", "A1", "A2", & "A3"	"D", "H", & "OA"
LONGITUDINAL LINES	250 MILS	125 MILS
TRANSVERSE LINES AND SYMBOLS	250 MILS	125 MILS

2. ALL DIMENSIONS REFER TO CENTER OF SINGLE STRIPE, CENTER OF DOUBLE STRIPE, LIP OF CURB, OR EDGE OF PAVEMENT.
3. TRANSITION NEW PAVEMENT MARKINGS TO MATCH EXISTING MARKINGS AT A 100:1 TAPER ON THE NEW ASPHALT.
4. INSTALL DIRECTIONAL ARROWS IN ACCORDANCE WITH STANDARD DRAWINGS T–21.04 AND T–22.04 OR AS SHOWN ON THE PLANS.
5. CROSSWALKS STATION/OFFSET REFERS TO THE CENTERLINE OF THE CROSSWALK.

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TRAFFIC LEGEND, NOTES, AND KEY MAP

Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H2	H56

"D"+33
D3-100, R1-1
002
Broadmoor Ave
Dale Rd
STOP

"D"+37
R7-107a
001

BROADMOOR AVENUE

R/W

24"W

4"W
4"YS
4"W

505+00
506+00
507+00
508+00
509+00
510

+09
+18

3.5'
11'
11'
4.0'

BEGIN "D" 505+00.00
MATCH EXISTING

DALE ROAD

MATCH "D" 510+00 LINE

AIRPORT WAY

SIGNING AND STRIPING

STATE OF ALASKA
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"D"+91
D3-100, R1-1
006
Discovery Rd
Dale Rd
STOP

"D"+02
R7-107a
003

DISCOVERY DRIVE

"D"+46
D7-105
007
RIVERBOAT DISCOVERY

24"W

3.5'
11'
11'
4'

+62
+72

4"W
4"YS
4"W
4"YS
4"Y
4"W
4"DY

511+00
512+00
513+00
514+00
515+00
516
+40

"D"+16
D7-105
004
RIVERBOAT DISCOVERY

"D"+72
D14-100
005
ADOPT A HIGHWAY
ADOPT-A-HIGHWAY OF FAIRBANKS

AIRPORT WAY

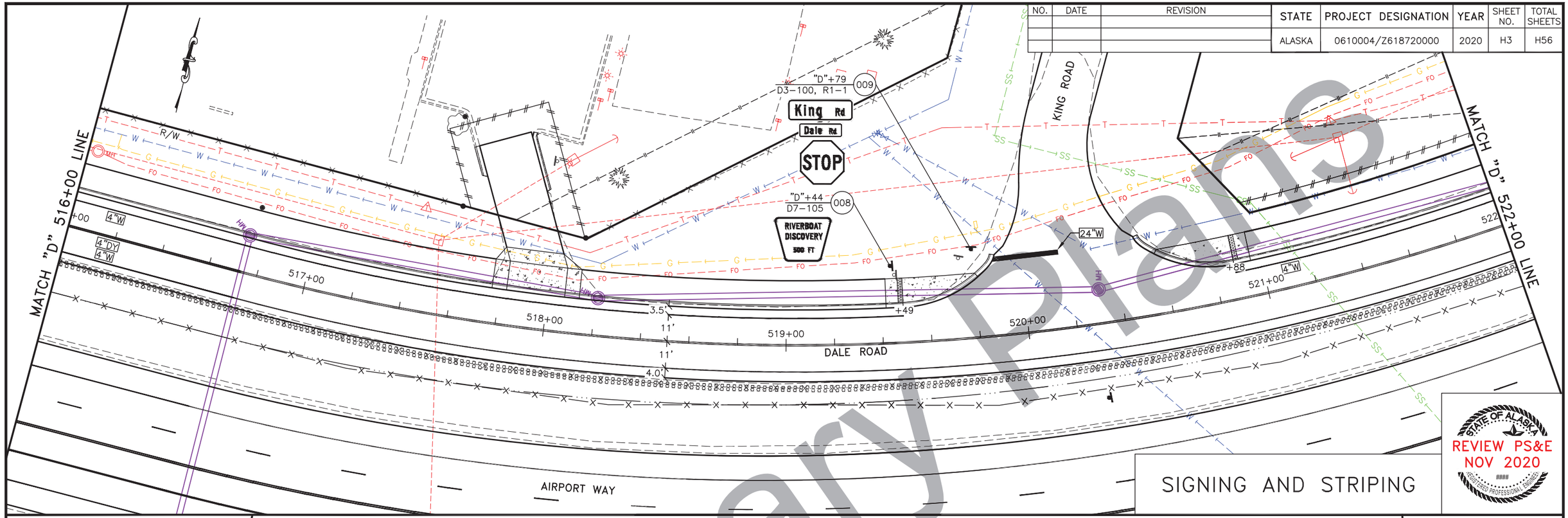
MATCH "D" 516+00 LINE

Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H3	H56



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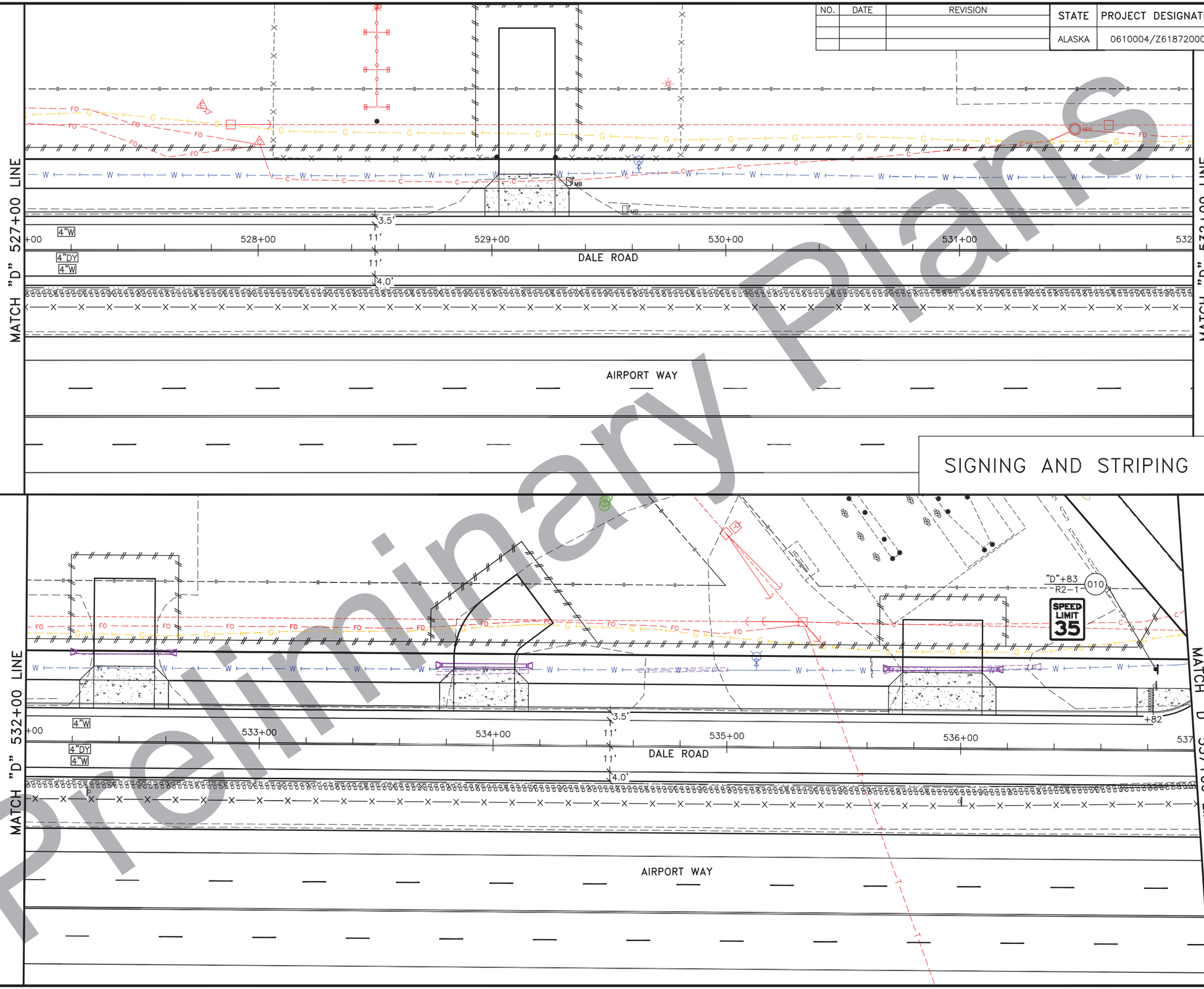
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H4	H56



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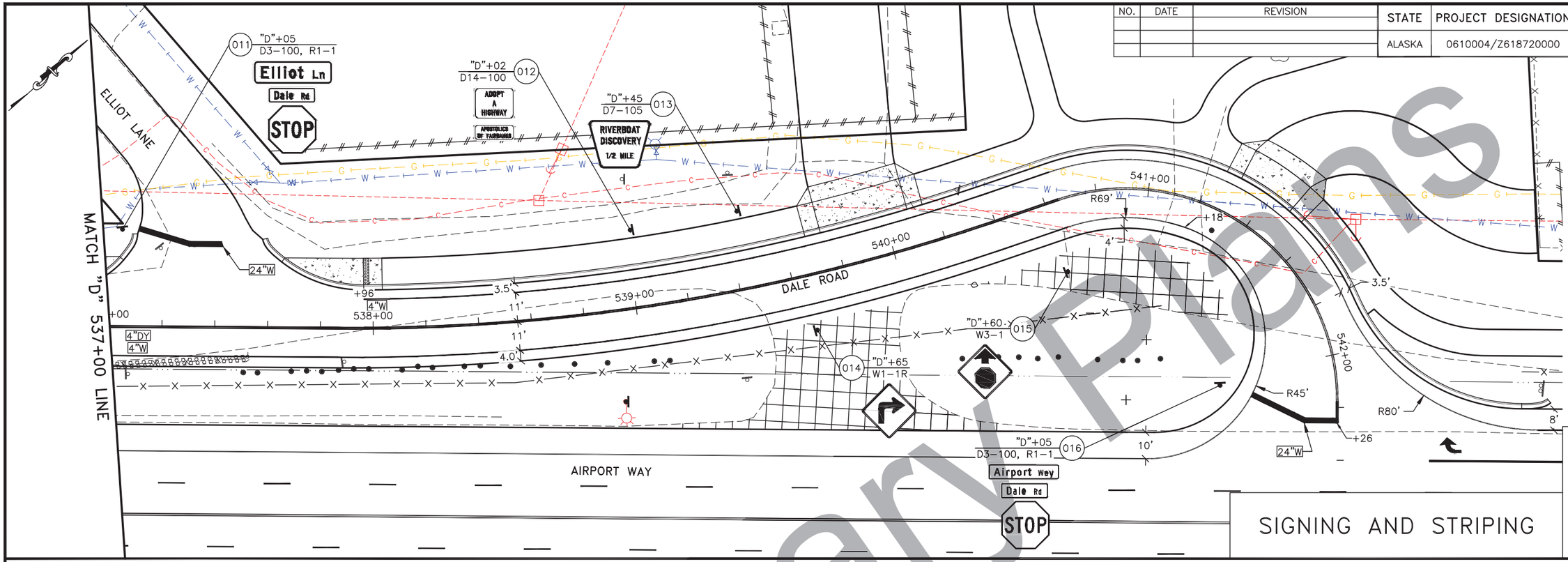
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H5	H56



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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H6	H56

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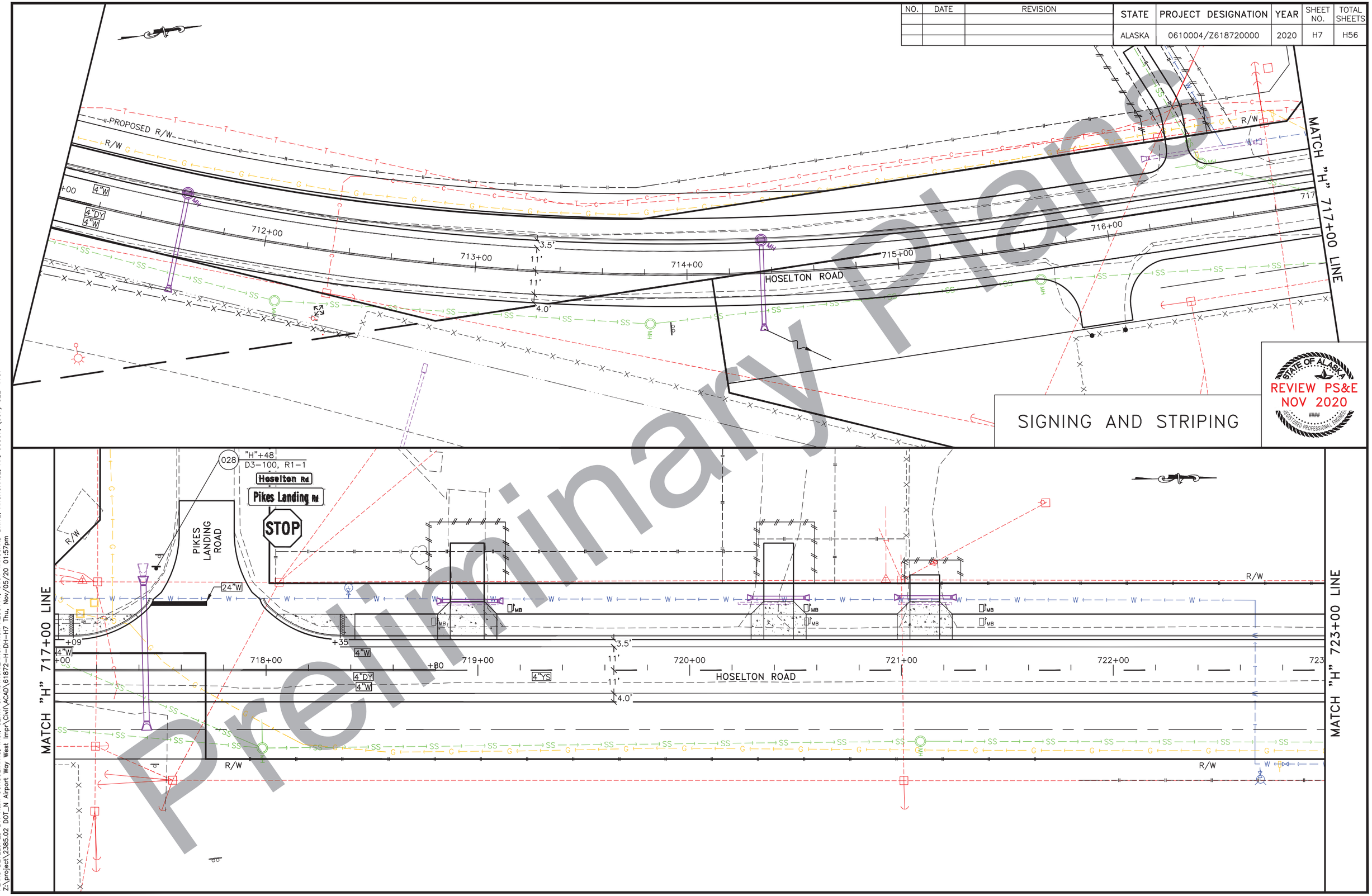
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H7	H56



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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H8	H56

MATCH "H" 723+00 LINE

"H"+10
D3-100, R1-1
029
Cranberry St
Haselton Rd
STOP

CRANBERRY STREET

R/W

24"W

+81

+85

031 "H"+00 R2-1
SPEED LIMIT 30

R/W

4"W

4"YS

4"W

724+00

725+00

726+00

727+00

728+00

729

HOSELTON ROAD

3.5'

11'

11'

4.0'

+34

030 "H"+00 R2-1
SPEED LIMIT 30

MATCH "H" 729+00 LINE

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MATCH "H" 729+00 LINE

"H"+63
D3-100, R1-1
033

032 "H"+40
R7-107a
Rosebud Ln
Haselton Rd
STOP

ROSEBUD LANE

R/W

MB

24"W

+38

+42

3.5'

4"W

730+00

731+00

732+00

733+00

734

11'

11'

4.0'

HOSELTON ROAD

+42

4"YS

4"W

R/W

MATCH "H" 734+00 LINE

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H9	H56

MATCH "H" 734+00 LINE

R/W

MB

+68

+00

4"W

4"YS

735+00

736+00

HOSELTON ROAD

+36

+44

737+00

+76

3.5'

11'

11'

4.0'

+49

738+00

+39

MATCH "H" 739+00 LINE

034 "H"+20 W12-200, W16-2P

15'-3"

500 FEET

035 "H"+44 W1-1R, W13-1

25 MPH

SS

G

W

T

BRIDGE No. 1161

BRIDGE No. 1913

740+00

741+00

742+00

037 "H"+60 W12-2a

15FT 3IN

036 "H"+30 W12-2a

15FT 3IN

4"DY

4"W

3.5'

11'

4'

BOAT STREET

743+00

MATCH "H" 743+00 LINE

PATHWAY

SIGNING AND STRIPING

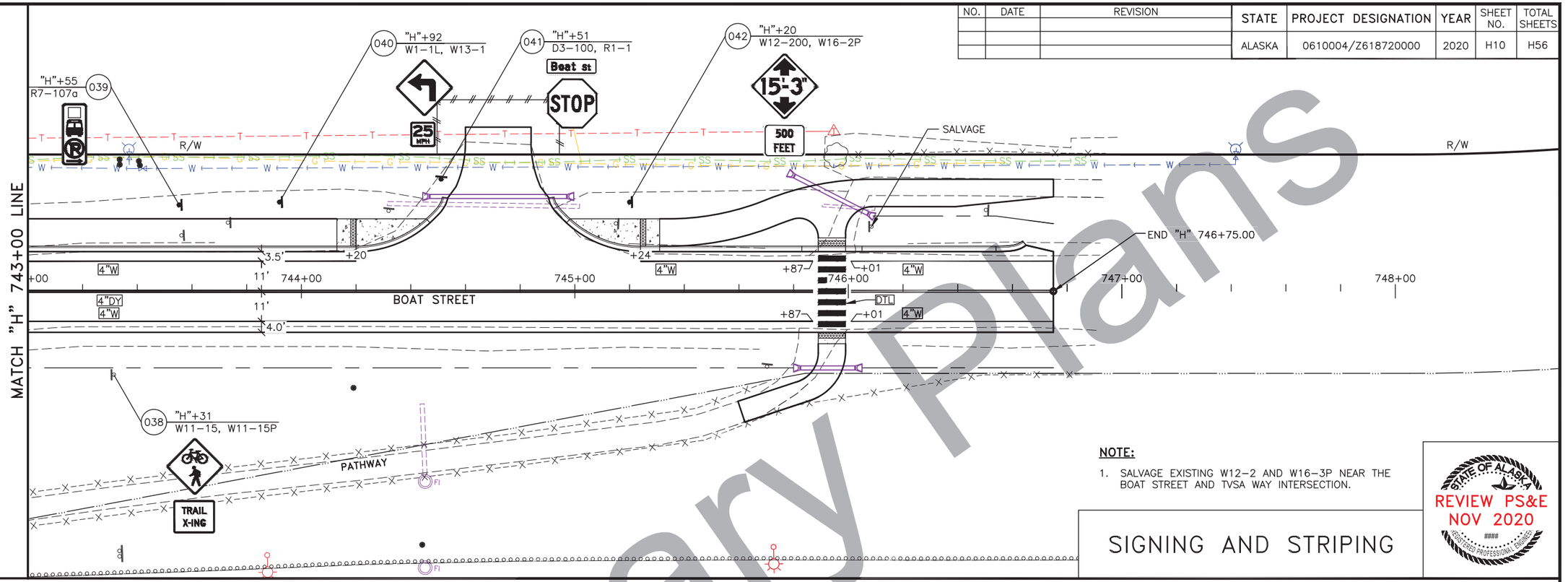
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H10	H56



NOTE:

1. SALVAGE EXISTING W12-2 AND W16-3P NEAR THE BOAT STREET AND TVSA WAY INTERSECTION.

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NOV 2020
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H11	H56

Preliminary Plans

"A"+15 / R5-1, R2-1 (043)

SPEED LIMIT 25

DO NOT ENTER

BEGIN "A" 309+60.00
MATCH EXISTING

4"W
4"WS
4"Y

6.0'
12'
12'
6.3'

307+00
308+00
309+00
310+00
311+00
312+00
313

AIRPORT WAY

MATCH "A" 313+00 LINE

044 "A"+18 / R5-1

DO NOT ENTER

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REGISTERED PROFESSIONAL ENGINEER

"A"+95 / W3-5 (045)

SPEED LIMIT 25

"A"+22 / E5-1 (048)

EXIT

4"W
8"W
18"W
STD

8'
12'

6.0'
12'
12'
6.3'

+00
+94
+97
314+00
315+00
316+00
+12
317+00
+18
318+00
+02
16'
+58
8'
319

4"DY
4"WS
4"Y

MATCH "A" 313+00 LINE

MATCH "A" 319+00 LINE

AIRPORT WAY

"A"+01 / R5-1 (047)

DO NOT ENTER

046 "A"+98 / R4-7B, OM1-1

KEEP RIGHT

049 "A"+48 / D3-200

← Dale Rd

R/W

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H12	H56

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NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

"A"+15 D3-100, R1-1 (050) — Western Ave / Airport Way — STOP
5.5' — 4.5' — WESTERN AVENUE — 4"DY
R54' — R60' — +54 — 24"W — +11 — 4"W — +55
"A"+00 R2-1 (051) — SPEED LIMIT 35
"A"+89 W3-5 (053) — SPEED LIMIT 35
10' — 12' — 12' — 12' — 12' — 10'
R/W
MATCH "A" 319+00 LINE
+80 — 8' — 4"W
320+00 — 4"WS — 4"DY — 4"W — +00
321+00 — +61 — +73 — 4"W
322+00 — AIRPORT WAY — 323+00 — 324+00 — 325
"A"+99 R2-1 (052) — SPEED LIMIT 45
MATCH "A" 325+00 LINE
12'

"A"+00 D1-101 (054)
Fairbanks Intl Airport
S Airport Business Dist.
Dale Road
DALE ROAD
R/W
4"W — 4"WS — 4"DY — 4"W — +00
326+00 — 327+00 — 328+00 — AIRPORT WAY — 329+00 — 330+00 — 331
10' — 12' — 12' — 12' — 10'
MATCH "A" 325+00 LINE
MATCH "A" 331+00 LINE
+69 — 8"W — 12"W — +73 — 8"W — STD
R/W

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-H-A-H12 Thu, Nov/05/20 01:58pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H13	H56

SIGNING AND STRIPING

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

DALE ROAD

AIRPORT WAY

MATCH "A" 331+00 LINE

MATCH "A" 337+00 LINE

MATCH "A" 343+00 LINE

055 "A"+35 R2-1
SPEED LIMIT 45

056 "A"+96 R16-106
$1000 FINE FOR LITTERING

057 "A"+01 D1-200
Fairbanks 2

058 "A"+01 R8-4
EMERGENCY PARKING ONLY

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-H-A-H13 Thu, Nov/05/20 01:58pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H14	H56

DALE ROAD

MATCH "A" 343+00 LINE

MATCH "A" 349+00 LINE

+00 344+00 345+00 346+00 347+00 348+00 349

10' 12' 12' 12' 12' 10'

4"W 4"WS 4"DY 4"WS 4"W

AIRPORT WAY

R/W

R/W

SIGNING AND STRIPING

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NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

DALE ROAD

MATCH "A" 349+00 LINE

MATCH "A" 355+00 LINE

+00 350+00 351+00 352+00 353+00 354+00 355

10' 12' 12' 12' 12' 10'

4"W 4"WS 4"DY 4"WS 4"W

AIRPORT WAY

"A"+01 D3-200 059

Dale Rd

R/W

R/W

Preliminary Plans

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-H-A-H14 Thu, Nov/05/20 01:58pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H15	H56

DALE ROAD

PATHWAY

MATCH "A" 355+00 LINE

"A"+96
060
R2-1
SPEED LIMIT 45

4"W
4"WS
4"DY
24"W
8"W
STD

+00 356+00 357+00 358+00 359+00 360+00 361

10' 12' 12' 12' 12' 12' 12' 12' 12' 10'

+93 +65 +41 +12 +00 +96 +34 +89

R45'

AIRPORT WAY

OLD AIRPORT ROAD

R/W

061
"A"+09
D3-100, R1-1
Airport Way
Old Airport Rd
STOP

MATCH "A" 361+00 LINE

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STATE OF ALASKA
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REGISTERED PROFESSIONAL ENGINEER

062
"A"+23
D7-102
Riverboat Discovery

063
"A"+36
R16-106
$1000 FINE FOR LITTERING

064
"A"+50
D3-200
Dale Rd

8' 12' 12' 12' 12' 12' 12' 10'

+64 +15 +15 +15 +35

+00 362+00 363+00 364+00 365+00 366+00 367

AIRPORT WAY

MATCH "A" 361+00 LINE

MATCH "A" 367+00 LINE

R/W

Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H16	H56

MATCH "A" 367+00 LINE

PATHWAY

HOSELTON ROAD

MATCH "A" 373+00 LINE

AIRPORT WAY

4"W
4"WS
4"DY
10'
12'
+00
368+00
369+00
370+00
371+00
372+00
373
+74
+92
+07
R50'
+56
+90
+15
+20
24"W
R/W

066 "A"+30 W6-1

065 "A"+98 D3-100, R1-1

Airport Way

STOP

067 "A"+01 R2-1

SPEED LIMIT 45

SIGNING AND STRIPING

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

4"W
4"WS
4"DY
4"SY
STD
10'
12'
374+00
375+00
376+00
377+00
378+00
379+00
MATCH EXISTING
AIRPORT WAY

068 "A"+95 R4-7B, OM1-1

SS
FO
T

Preliminary Plans

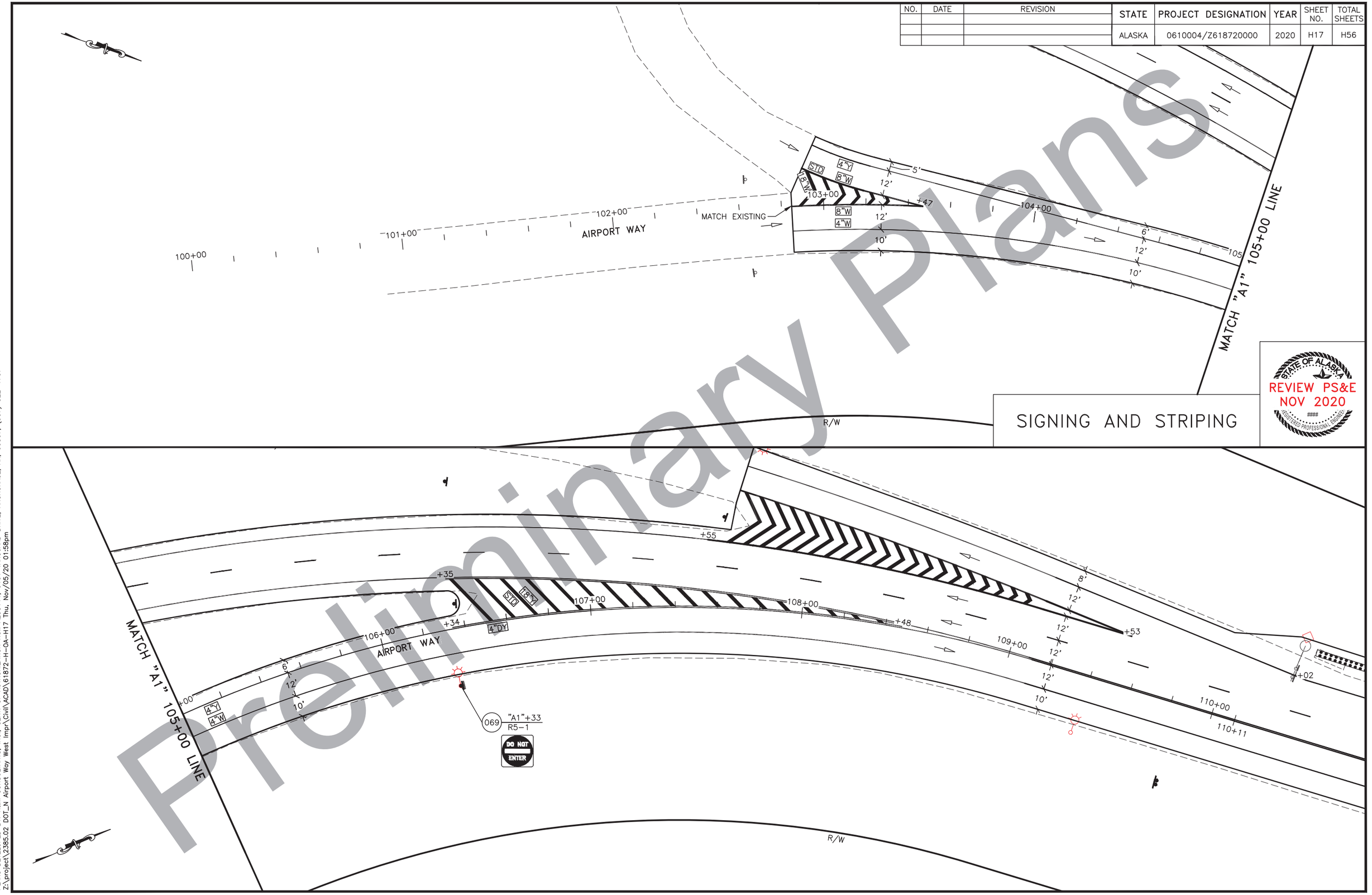
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H17	H56

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H18	H56

Preliminary Plans

070 "A2"+10 R5-1 — DO NOT ENTER

071 "A2"+10 R5-1 — DO NOT ENTER

NATURE AREA

MATCH "A2" 206+00 LINE

200+00 | 201+00 | 202+00 | 203+00 | 204+00 | 205+00 | 206

+54 | +50 | +62 | +88 | +99 | +05 | +70

24"W | DTL | 4"Y | 4"WS | 4"W | 18"W STD | 4"DY | 4"W | 8"W | 12' | 10' | 6'

072 "A2"+90 R2-1 — SPEED LIMIT 25

073 "A2"+72 D3-201 — ↑ Dale Rd / Fairbanks ↗

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NOV 2020
REGISTERED PROFESSIONAL ENGINEER

MATCH "A2" 206+00 LINE

207+00 | 208+00 | 209+00 | 210+00 | 211+00 | 212

+00 | +57

4"Y | 8"W | 4"W | 18"W STD | 6' | 12' | 10'

WEIN LAKE ROAD WEST

074 "A2"+52 CUSTOM — RIDE SHARE ONLY

075 "A2"+09 CUSTOM — RIDE SHARE ONLY

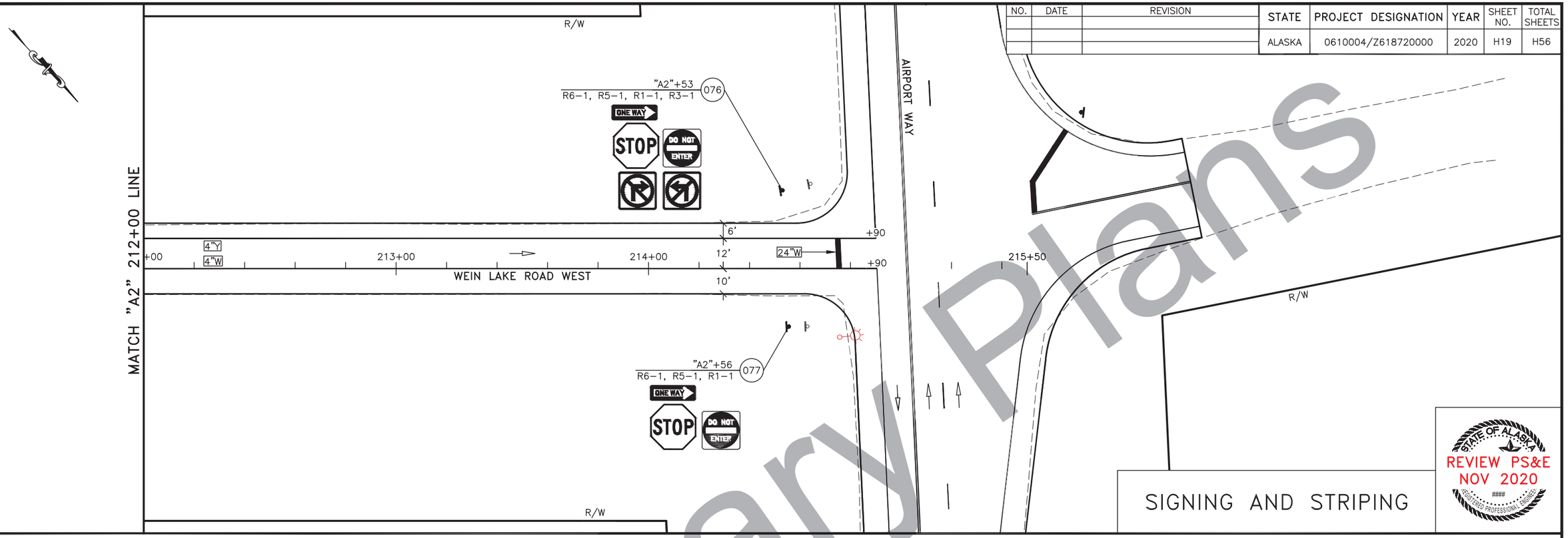
WEIN LAKE ROAD NORTH

MATCH "A2" 212+00 LINE

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H19	H56



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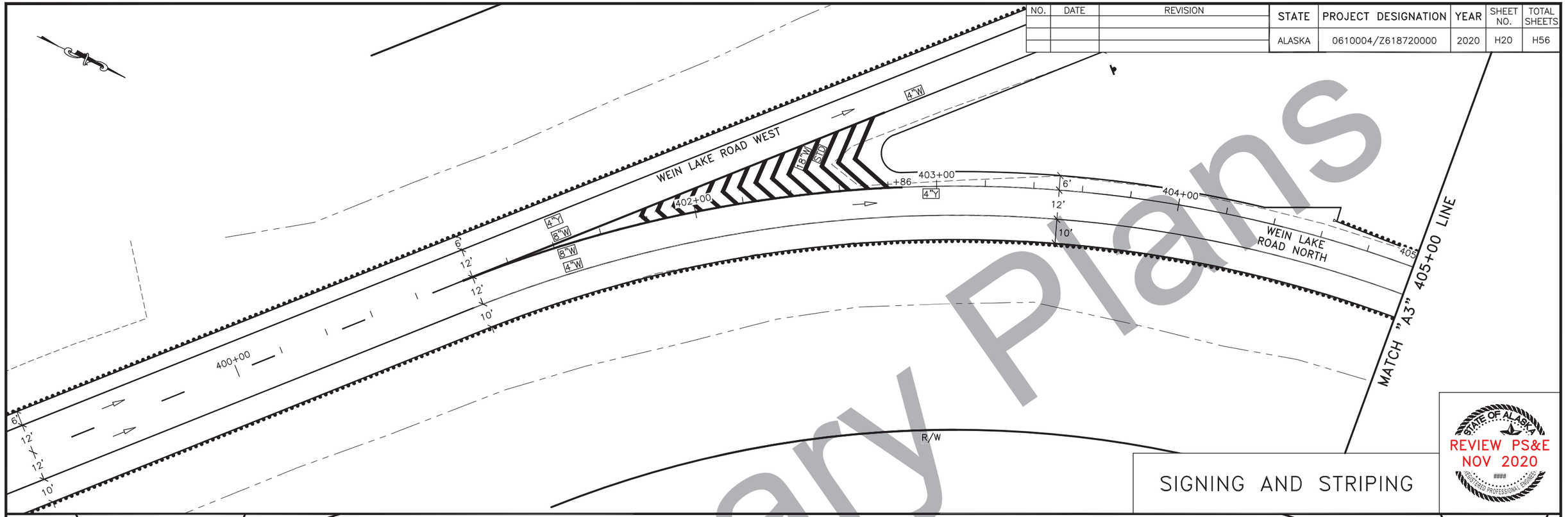
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H20	H56



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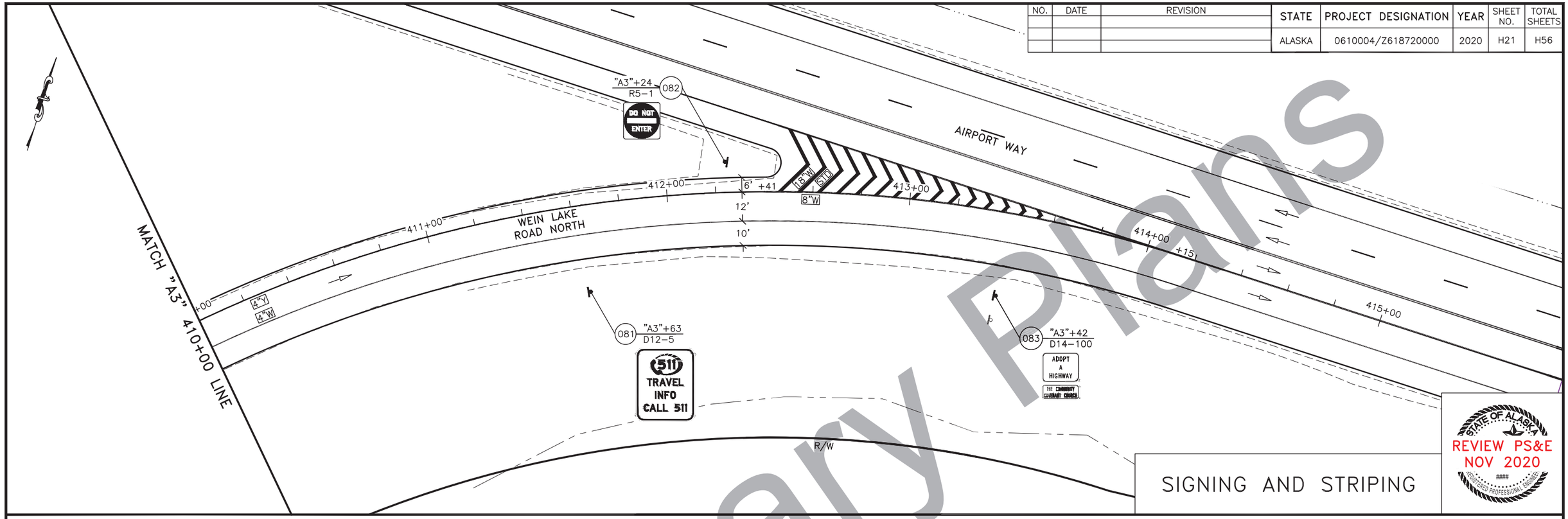
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H21	H56



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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H22	H56

088 "OA"+69 D3-100B, R6-1, R3-1, R1-1
ONE WAY
Old Airport Rd
STOP
086 "OA"+55 R4-7B, OM1-1
085 "OA"+45 R6-1 24"W
ONE WAY
084 "OA"+36 R5-1
DO NOT ENTER
090 "OA"+76 PRIVATE PARKING PERMIT PARKING ONLY
092 "OA"+36 PRIVATE PARKING PERMIT PARKING ONLY
093 "OA"+96 PRIVATE PARKING EVERTS AIR PARKING ONLY
095 "OA"+55 PRIVATE PARKING EVERTS AIR PARKING ONLY
4"W 4"DY 6' 12' 4"DY 4"W
801+00 802+00 803+00 804+00 805+00 806+00 807
OLD AIRPORT ROAD
MATCH "OA" 807+00 LINE
087 "OA"+64 PRIVATE PARKING EVERTS AIR PARKING ONLY
089 "OA"+16 PRIVATE PARKING EVERTS AIR PARKING ONLY
091 "OA"+89 PRIVATE PARKING EVERTS AIR PARKING ONLY
094 "OA"+34 R2-1
SPEED LIMIT 30
096 "OA"+65 R7-107a
MH
SS T G W

+00 808+00 809+00 810+00 811+00 812+00 813
OLD AIRPORT ROAD
MATCH "OA" 807+00 LINE
MATCH "OA" 813+00 LINE

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H23	H56

MATCH "OA" 813+00 LINE

MATCH "OA" 819+00 LINE

+00 814+00 815+00 816+00 817+00 818+00 819

OLD AIRPORT ROAD

4"W 4"DY 4"W

6' 12' 12' 6'

+32 R60' R53' 24"W 4"W +76 4"DY +69

"OA"+97 R2-1 098

SPEED LIMIT 30

097 "OA"+40 R1-1

STOP

MATCH EXISTING

MATCH "OA" 819+00 LINE

MATCH "OA" 825+00 LINE

+00 820+00 821+00 822+00 823+00 824+00 825

OLD AIRPORT ROAD

4"W 4"DY 4"W

6' 12' 12' 6'

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NOV 2020
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H24	H56

Preliminary Plans

MATCH "OA" 825+00 LINE

R/W

R/W

4"W

4"DY

4"W

+00

826+00

827+00

828+00

829+00

830+00

831

6'

12'

12'

6'

OLD AIRPORT ROAD

MATCH "OA" 831+00 LINE

SIGNING AND STRIPING

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

MATCH "OA" 831+00 LINE

R/W

R/W

4"W

4"DY

4"W

+00

832+00

833+00

834+00

835+00

836+00

837

+74

6'

12'

12'

6'

OLD AIRPORT ROAD

MATCH "OA" 837+00 LINE

101 "OA"+07 R2-1

SPEED LIMIT 30

099 "OA"+37 R1-1

STOP

100 "OA"+52 R7-107a

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H25	H56

MATCH "OA" 837+00 LINE

MATCH "OA" 843+00 LINE

MATCH "OA" 843+00 LINE

MATCH "OA" 849+00 LINE

OLD AIRPORT ROAD

OLD AIRPORT ROAD

104 "OA"+25 R1-1, W4-WaP

103 "OA"+43 W1-7, OM1-1

102 "OA"+11 R1-1, W4-4aP

105 "OA"+45 R2-1

24"W

4"W

4"DY

24'

24'

R45'

R45'

+13

838+00

839+00

840+00

841+00

842+00

843

844+00

845+00

846+00

847+00

848+00

R/W

6'

12'

12'

6'

STOP

SPEED LIMIT 30

SIGNING AND STRIPING

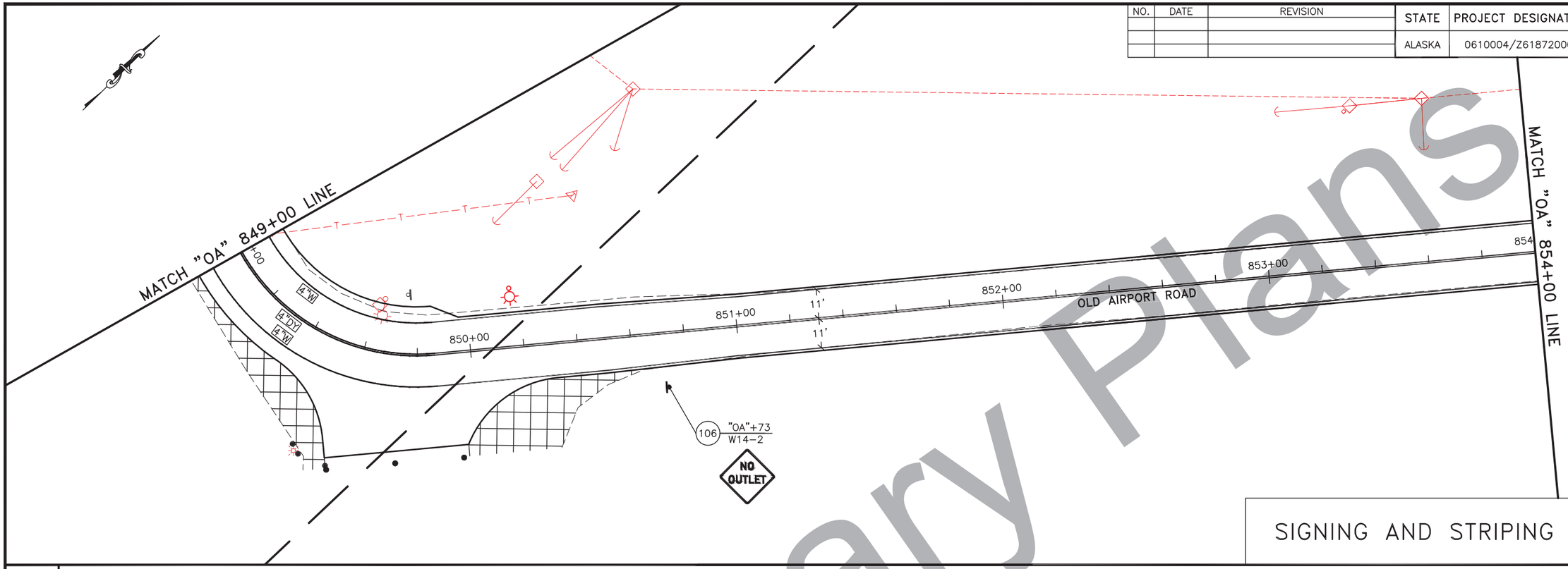
STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

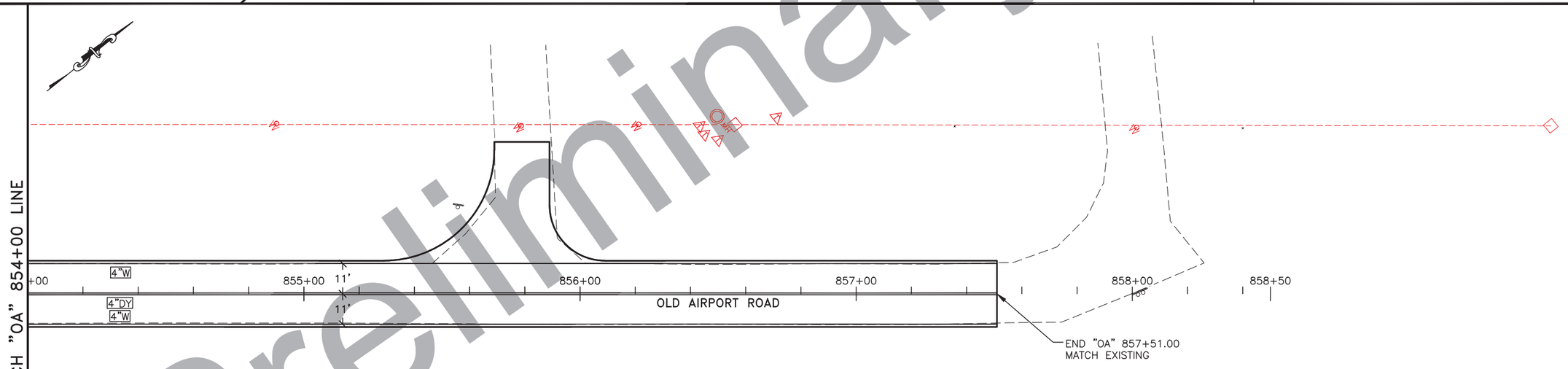
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H26	H56



SIGNING AND STRIPING



STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H27	H56

615.0001.0000 SIGN SUMMARY

LOC. NO.	STATION	LOCATION LT.	LOCATION RT.	ASDS CODE	LEGEND	SIZE H X V (INCHES)	BRACING/FRAMING BRACED	BRACING/FRAMING FRAMED	AREA (SQ.FT.)	MTG. HGT. (FT.)	DIR.	POST TYPE	POST SIZE (INCHES)	POST NO.	REMARKS
1	"D" 505+37	X		R7-107a	BUS STOP	12 X 30			2.50		E	PST	2.5	1	NOTE 15, SHEET H1
2	506+33	X		D3-100	Dale Rd	24 X 8			2.67		N/S	PST	2.5	1	2 SIGNS BACK TO BACK
				D3-100	Broadmoor Ave	48 X 12	X		8.00		E/W				2 SIGNS BACK TO BACK
				R1-1	STOP	30 X 30	X		6.25		N				
3	512+02	X		R7-107a	BUS STOP	12 X 30			2.50		E	PST	2.5	1	NOTE 15, SHEET H1
4	512+16		X	D7-105	RIVERBOAT DISCOVERY	48 X 36	X		12.00		W	TS	3	1	
5	512+72		X	D14-100	ADOPT A HIGHWAY	30 X 36	X		7.50		W	PST	2.5	1	APOSTOLICS OF FAIRBANKS
6	512+91	X		D3-100	Dale Rd	24 X 8			2.67		N/S	PST	2.5	1	2 SIGNS BACK TO BACK
				D3-100	Discovery Rd	44 X 12	X		7.33		E/W				2 SIGNS BACK TO BACK
				R1-1	STOP	30 X 30	X		6.25		N				
7	514+46	X		D7-105	RIVERBOAT DISCOVERY	48 X 36	X		12.00		E	PST	2.5	1	
8	519+44	X		D7-105	RIVERBOAT DISCOVERY	48 X 36	X		12.00		NE	PST	2.5	1	
9	519+79	X		D3-100	Dale Rd	24 X 8			2.67		N/S	PST	2.5	1	2 SIGNS BACK TO BACK
				D3-100	King Rd	36 X 12	X		6.00		E/W				2 SIGNS BACK TO BACK
				R1-1	STOP	30 X 30	X		6.25		N				
10	536+83	X		R2-1	SPEED LIMIT 35	24 X 30			5.00		NE	PST	2.5	1	
11	537+05	X		D3-100	Dale Rd	24 X 8			2.67		NW/SE	PST	2.5	1	2 SIGNS BACK TO BACK
				D3-100	Elliot Ln	40 X 12	X		6.67		NE/SW				2 SIGNS BACK TO BACK
				R1-1	STOP	30 X 30	X		6.25		NW				
12	539+02	X		D14-100	ADOPT A HIGHWAY	30 X 36	X		7.50		NE	PST	2.5	1	APOSTOLICS OF FAIRBANKS
13	539+45	X		D7-105	RIVERBOAT DISCOVERY	48 X 36	X		12.00		NE	TS	3	1	
14	539+65		X	W1-1R	RIGHT TURN	30 X 30	X		6.25		SW	PST	2.5	1	
15	540+60		X	W3-1	STOP AHEAD	30 X 30	X		6.25		S	PST	2.5	1	
16	542+05		X	D3-100	Airport Way	36 X 8	X		4.00		NW/SE	PST	2.5	1	2 SIGNS BACK TO BACK
				D3-100	Dale Rd	24 X 12			4.00		NE/SW				2 SIGNS BACK TO BACK
				R1-1	STOP	36 X 36	X		9.00		NW				
17	"H" 700+53	X		D3-100	Airport Way	36 X 8	X		4.00		NW/SE	PST	2.5	1	2 SIGNS BACK TO BACK
				D3-100	Hoselton Rd	36 X 12	X		6.00		NE/SW				2 SIGNS BACK TO BACK
				R1-1	STOP	36 X 36	X		9.00		NW				
18	701+40	X		W3-1	STOP AHEAD	30 X 30	X		6.25		NE	PST	2.5	1	
19	702+01	X		R6-1R	ONE WAY	36 X 12	X		6.00		NE/SW	PST	2.5	1	2 SIGNS BACK TO BACK
				R5-1	DO NOT ENTER	30 X 30	X		6.25		SE				
20	702+60	X		R6-1R	ONE WAY	36 X 12	X		6.00		NE/SW	PST	2.5	1	2 SIGNS BACK TO BACK
				R5-1	DO NOT ENTER	30 X 30	X		6.25		SE				
21	702+67		X	R2-1	SPEED LIMIT 30	24 X 30			5.00		SW	PST	2.5	1	
22	702+77	X		W1-1L	LEFT TURN	30 X 30	X		6.25		NE	PST	2.5	1	

SUBTOTAL = 227.17

615.0001.0000 SIGN SUMMARY

LOC. NO.	STATION	LOCATION LT.	LOCATION RT.	ASDS CODE	LEGEND	SIZE H X V (INCHES)	BRACING/FRAMING BRACED	BRACING/FRAMING FRAMED	AREA (SQ.FT.)	MTG. HGT. (FT.)	DIR.	POST TYPE	POST SIZE (INCHES)	POST NO.	REMARKS
23	704+90	X		R7-107a	BUS STOP	12 X 30			2.50		NE	PST	2.5	1	NOTE 15, SHEET H1
24	705+48	X		R6-1R	ONE WAY	36 X 12	X		6.00		NE/SW	PST	2.5	1	2 SIGNS BACK TO BACK
				R5-1	DO NOT ENTER	30 X 30	X		6.25		NW				
25	705+96	X		R6-1R	ONE WAY	36 X 12	X		6.00		NE/SW	PST	2.5	1	2 SIGNS BACK TO BACK
				R5-1	DO NOT ENTER	30 X 30	X		6.25		NW				
26	709+39	X		D3-100	Hoselton Rd	36 X 8	X		4.00		NE/SW	PST	2.5	1	2 SIGNS BACK TO BACK
				D3-100	Digger Rd	24 X 12			4.00		NW/SE				2 SIGNS BACK TO BACK
				R1-1	STOP	30 X 30	X		6.25		NW				
27	709+73		X	W1-7	ARROW	48 X 24	X		8.00		NW	PST	2.5	1	
				OM1-1	OBJECT MARKER	18 X 18			2.25		NW				
28	717+48	X		D3-100	Hoselton Rd	36 X 8	X		4.00		E/W	PST	2.5	1	2 SIGNS BACK TO BACK
				D3-100B	Pikes Landing Rd	33 X 12	X		5.50		N/S				2 SIGNS BACK TO BACK
				R1-1	STOP	30 X 30	X		6.25		W				
29	724+10	X		D3-100	Hoselton Rd	36 X 8	X		4.00		E/W	PST	2.5	1	2 SIGNS BACK TO BACK
				D3-100	Cranberry St	44 X 12	X		7.33		N/S				2 SIGNS BACK TO BACK
				R1-1	STOP	30 X 30	X		6.25		W				
30	726+00		X	R2-1	SPEED LIMIT 30	24 X 30			5.00		S	PST	2.5	1	
31	726+00	X		R2-1	SPEED LIMIT 30	24 X 30			5.00		N	PST	2.5	1	
32	729+40	X		R7-107a	BUS STOP	12 X 30			2.50		N	PST	2.5	1	NOTE 15, SHEET H1
33	730+63	X		D3-100	Hoselton Rd	36 X 8	X		4.00		E/W	PST	2.5	1	2 SIGNS BACK TO BACK
				D3-100	Rosebud Ln	40 X 12	X		6.67		N/S				2 SIGNS BACK TO BACK
				R1-1	STOP	30 X 30	X		6.25		W				
34	734+20		X	W12-200	LOW CLEAR. 15'-3"	36 X 36	X		9.00		S	PST	2.5	1	NOTE 16, SHEET H1
				W16-2P	500 FEET	24 X 18			3.00		S				
35	736+44		X	W1-1R	RIGHT TURN	30 X 30	X		6.25		S	PST	2.5	1	
				W13-1	SPEED LIMIT 25	18 X 18			2.25		S				
36	739+30		X	W12-2a	15FT 3IN	78 X 24		X	13.00		SW	MOUNT TO BRIDGE			NOTE 16, SHEET H1
37	740+60		X	W12-2a	15FT 3IN	78 X 24		X	13.00		NE	MOUNT TO BRIDGE			NOTE 16, SHEET H1
38	743+31		X	W11-15	TRAIL XING	30 X 30	X		6.25		NW	PST	2.5	1	
				W11-15P	TRAIL XING	24 X 18			3.00		NW				
39	743+55	X		R7-107a	BUS STOP	12 X 30			2.50		SE	PST	2.5	1	NOTE 15, SHEET H1
40	743+92	X		W1-1L	LEFT TURN	30 X 30	X		6.25		SE	PST	2.5	1	
				W13-1	SPEED LIMIT 25	18 X 18			2.25		SE				

SUBTOTAL = 181.00

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-H-OA-H27 Thu, Nov/05/20 01:59pm

SIGN SUMMARY

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H28	H56

615.0001.0000 SIGN SUMMARY

LOC. NO.	STATION	LOCATION LT.	LOCATION RT.	ASDS CODE	LEGEND	SIZE H X V (INCHES)	BRACING/FRAMING BRACED	BRACING/FRAMING FRAMED	AREA (SQ.FT.)	MTG. HGT. (FT.)	DIR.	POST TYPE	POST SIZE (INCHES)	POST NO.	REMARKS
41	744+51	X		D3-100	Boat St	24 X 8			2.67		NE/SW	PST	2.5	1	2 SIGNS BACK TO BACK
				R1-1	STOP	30 X 30	X		6.25		NE				
42	745+20	X		W12-200	LOW CLEAR. 15'-3"	36 X 36	X		9.00		SE	PST	2.5	1	NOTE 16, SHEET H1
				W16-2P	500 FEET	24 X 18			3.00		SE				
43	"A" 310+15	X		R5-1	DO NOT ENTER	36 X 36	X		9.00		S	PST	2.5	1	
				R2-1	SPEED LIMIT 25	30 X 36	X		7.50		N				
44	310+18		X	R5-1	DO NOT ENTER	36 X 36	X		9.00		S	PST	2.5	1	
45	313+95	X		W3-5	RED. SPEED AHEAD	36 X 36	X		9.00		N	PST	2.5	1	
46	313+98		X	R4-7B	KEEP RIGHT	24 X 30			5.00		N	PST	2.5	1	
				OM1-1	OBJECT MARKER	18 X 18			2.25		N				
47	314+01		X	R5-1	DO NOT ENTER	36 X 36	X		9.00		N	MOUNT TO ELECTROLIER			
48	315+22	X		E5-1	EXIT	72 X 60		X	30.00		NE	TS	3	1	
49	317+48		X	D3-200	Dale Rd	78 X 24		X	13.00		SW	PST	2.5	2	
50	320+15	X		D3-100	Airport Way	36 X 8	X		4.00		NW/SE	PST	2.5	1	2 SIGNS BACK TO BACK
				D3-100	Western Ave	48 X 12	X		8.00		NE/SW				2 SIGNS BACK TO BACK
				R1-1	STOP	36 X 36	X		9.00		NW				
51	322+00	X		R2-1	SPEED LIMIT 35	30 X 36	X		7.50		NE	PST	2.5	1	
52	322+99		X	R2-1	SPEED LIMIT 45	30 X 36	X		7.50		SW	MOUNT TO ELECTROLIER			
53	323+89	X		W3-5	RED. SPEED AHEAD	36 X 36	X		9.00		NE	PST	2.5	1	
54	326+00	X		D1-101	STREET DIRECTIONS	168 X 54		X	63.00		E	TS	5	3	
55	334+35		X	R2-1	SPEED LIMIT 45	30 X 36	X		7.50		W	PST	2.5	1	
56	337+96	X		R16-106	FINE FOR LITTERING	42 X 42	X		12.25		E	TS	3	1	
57	338+01		X	D1-200	Fairbanks 2	78 X 24		X	13.00		W	PST	2.5	2	
58	342+01		X	R8-4	EMERGENCY PARKING	30 X 24	X		5.00		SW	PST	2.5	1	
59	354+01		X	D3-200	Dale Rd	78 X 24		X	13.00		SW	PST	2.5	2	
60	356+96	X		R2-1	SPEED LIMIT 45	30 X 36	X		7.50		NE	MOUNT TO ELECTROLIER			
61	360+09		X	D3-100	Airport Way	36 X 8	X		4.00		NW/SE	PST	2.5	1	2 SIGNS BACK TO BACK
				D3-100B	Old Airport Rd	32 X 18	X		8.00		NE/SW				2 SIGNS BACK TO BACK
				R1-1	STOP	36 X 36	X		9.00		SE				
62	362+23	X		D7-102	RIVERBOAT DISCOVERY	90 X 36		X	22.50		NE	TS	3	2	
63	363+36	X		R16-106	FINE FOR LITTERING	42 X 42	X		12.25		NE	TS	3	1	
64	364+50	X		D3-200	Dale Rd	78 X 24		X	13.00		NE	PST	2.5	2	
65	369+98		X	D3-100	Airport Way	36 X 8	X		4.00		NW/SE	PST	2.5	1	2 SIGNS BACK TO BACK
				R1-1	STOP	36 X 36	X		9.00		SE				
SUBTOTAL = 362.67															

615.0001.0000 SIGN SUMMARY

LOC. NO.	STATION	LOCATION LT.	LOCATION RT.	ASDS CODE	LEGEND	SIZE H X V (INCHES)	BRACING/FRAMING BRACED	BRACING/FRAMING FRAMED	AREA (SQ.FT.)	MTG. HGT. (FT.)	DIR.	POST TYPE	POST SIZE (INCHES)	POST NO.	REMARKS
66	370+30		X	W6-1	DIVIDED HIGHWAY	36 X 36	X		9.00		SW	PST	2.5	1	
67	372+01		X	R2-1	SPEED LIMIT 45	30 X 36	X		7.50		SW	PST	2.5	1	
68	373+95	℄		R4-7B	KEEP RIGHT	24 X 30			5.00		SW	PST	2.5	1	
				OM1-1	OBJECT MARKER	18 X 18			2.25		SW				
69	"A1" 106+33		X	R5-1	DO NOT ENTER	36 X 36	X		9.00		N	MOUNT TO ELECTROLIER			
70	"A2" 201+10	X		R5-1	DO NOT ENTER	36 X 36	X		9.00		N	PST	2.5	1	
71	201+10		X	R5-1	DO NOT ENTER	36 X 36	X		9.00		N	PST	2.5	1	
72	202+90		X	R2-1	SPEED LIMIT 25	30 X 36	X		7.50		SE	PST	2.5	1	
73	203+72		X	D3-201	STREET DIRECTIONS	90 X 42		X	26.25		SE	TS	3	2	
74	208+52		X	CUSTOM	RIDE SHARE ONLY	24 X 24			4.00		SE	PST	2.5	1	
75	209+09		X	CUSTOM	RIDE SHARE ONLY	24 X 24			4.00		SE	PST	2.5	1	
76	214+53	X		R6-1	ONE WAY	36 X 12	X		6.00		NE/SW	PST	2.5	1	2 SIGNS BACK TO BACK
				R5-1	DO NOT ENTER	36 X 36	X		9.00		NW				
				R1-1	STOP	36 X 36	X		9.00		SE				
				R3-1	NO RIGHT TURN	36 X 36	X		9.00		SW				
				R3-1	NO LEFT TURN	36 X 36	X		9.00		NE				
77	214+56		X	R6-1	ONE WAY	36 X 12	X		6.00		NE/SW	PST	2.5	1	2 SIGNS BACK TO BACK
				R5-1	DO NOT ENTER	36 X 36	X		9.00		NW				
				R1-1	STOP	36 X 36	X		9.00		SE				
78	"A3" 405+02		X	CUSTOM		24 X 24			4.00		S	PST	2.5	1	
79	408+64		X	CUSTOM		24 X 24			4.00		SW	PST	2.5	1	
80	409+69		X	R16-118	BUCKLE UP	48 X 30	X		10.00		SW	TS	3	1	
81	411+63		X	D12-5	TRAVEL INFO	42 X 60	X		17.50		SW	TS	3	1	
82	412+24	X		R5-1	DO NOT ENTER	36 X 36	X		9.00		E	PST	2.5	1	
83	413+42		X	D14-100	ADOPT A HIGHWAY	30 X 36	X		7.50		W	PST	2.5	1	THE COMMUNITY COVENANT CHURCH
84	"OA" 801+36	X		R5-1	DO NOT ENTER	36 X 36	X		9.00		NE	PST	2.5	1	
85	801+45	X		R6-1	ONE WAY	36 X 12	X		3.00		NE	MOUNT TO ELECTROLIER			
86	801+55	X		R4-7B	KEEP RIGHT	24 X 30			5.00		NE	PST	2.5	1	
				OM1-1	OBJECT MARKER	18 X 18			2.25		NE				
87	801+64		X	CUSTOM	PRIVATE PARKING	18 X 24			3.00		NW	PST	2.5	1	
SUBTOTAL = 232.75															

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-H-OA-H28 Thu, Nov/05/20 02:00pm

SIGN SUMMARY

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H29	H56

615.0001.0000 SIGN SUMMARY

LOC. NO.	STATION	LOCATION LT.	LOCATION RT.	ASDS CODE	LEGEND	SIZE H X V (INCHES)	BRACING/FRAMING BRACED	BRACING/FRAMING FRAMED	AREA (SQ.FT.)	MTG. HGT. (FT.)	DIR.	POST TYPE	POST SIZE (INCHES)	POST NO.	REMARKS
88	801+69	X		D3-100B	OLD AIRPORT RD	32 X 18	X		8.00		NW/SE	PST	2.5	1	2 SIGNS BACK TO BACK
				R6-1	ONE WAY	36 X 12	X		6.00		E				2 SIGNS BACK TO BACK
				R3-1	NO LEFT TURN	24 X 24			4.00		E				
				R1-1	STOP	30 X 30	X		6.25		E				
89	802+16		X	CUSTOM	PRIVATE PARKING	18 X 24			3.00		NW	PST	2.5	1	
90	802+76	X		CUSTOM	PRIVATE PARKING	18 X 24			3.00		SE	PST	2.5	1	
91	802+89		X	CUSTOM	PRIVATE PARKING	18 X 24			3.00		NW	PST	2.5	1	
92	803+36	X		CUSTOM	PRIVATE PARKING	18 X 24			3.00		SE	PST	2.5	1	
93	803+96	X		CUSTOM	PRIVATE PARKING	18 X 24			3.00		SE	PST	2.5	1	
94	804+34		X	R2-1	SPEED LIMIT 30	24 X 30			5.00		SW	MOUNT TO ELECTROLIER			
95	804+55	X		CUSTOM	PRIVATE PARKING	18 X 24			3.00		SE	PST	2.5	1	
96	804+65		X	R7-107a	BUS STOP	12 X 30			2.50		SW	PST	2.5	1	NOTE 15, SHEET H1
97	818+40		X	R1-1	STOP	30 X 30	X		6.25		SE	PST	2.5	1	
98	818+97		X	R2-1	SPEED LIMIT 30	24 X 30			5.00		SW	PST	2.5	1	
99	832+37		X	R1-1	STOP	30 X 30	X		6.25		SE	PST	2.5	1	
100	833+52		X	R7-107a	BUS STOP	12 X 30			2.50		SW	PST	2.5	1	NOTE 15, SHEET H1
101	835+07	X		R2-1	SPEED LIMIT 30	24 X 30			5.00		NE	MOUNT TO ELECTROLIER			
102	837+11		X	R1-1	STOP	30 X 30	X		6.25		SW	PST	2.5	1	
				W4-4aP	TRAFFIC FROM LEFT DOES NOT STOP	24 X 12			2.00		SW				
103	837+43		X	W1-7	ARROW	48 X 24	X		8.00		NW	PST	2.5	1	
				OM1-1	OBJECT MARKER	18 X 18			2.25		NW				
104	838+25	X		R1-1	STOP	30 X 30	X		6.25		NE	PST	2.5	1	
				W4-4aP	TRAFFIC FROM RIGHT DOES NOT STOP	24 X 12			2.00		NE				
105	839+45		X	R2-1	SPEED LIMIT 30	24 X 30			5.00		SW	PST	2.5	1	
106	850+73		X	W14-2	NO OUTLET	30 X 30	X		6.25		SW	PST	2.5	1	
									SUBTOTAL =		112.75				
									TOTAL =		1,116.34				
									ROUNDED TOTAL =		1,117				

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-H-0A-H29 Thu, Nov/05/20 02:00pm

SIGN SUMMARY

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H30	H56

615.0006.0000 – SALVAGE SIGN SUMMARY

STATION	LOCATION LT.	LOCATION RT.	CODE NO.	LEGEND	REMARKS
"D" 505+36	X		R7–107a	BUS STOP	NOTE 15, SHEET H1
506+40	X		D3–100	BROADMOOR AVE	
			R1–1	STOP	
512+03	X		R7–107a	BUS STOP	NOTE 15, SHEET H1
512+72		X	D14–100	ADOPT–A–HIGHWAY	
512+93	X		D7–105	RIVERBOAT DISCOVERY	
512+96	X		D3–100	DISCOVERY DR	
			R1–1	STOP	
519+46	X		D7–105	RIVERBOAT DISCOVERY	
519+73	X		D3–100	KING RD	
			R1–1	STOP	
532+27		X	W8–2	DIP	
536+83	X		R2–1	SPEED LIMIT	
537+07		X	W3–1	STOP AHEAD	
537+19	X		D3–100	ELLIOTT LN	
			R1–1	STOP	
537+89		X	W1–1R	RIGHT TURN	
539+02	X		D14–100	ADOPT–A–HIGHWAY	
539+44	X		D7–105	RIVERBOAT DISCOVERY	
539+36		X	D3–100	AIRPORT WAY	
			D3–100	DALE RD	
			R1–1	STOP	
537+19	X		W14–1	DEAD END	
			R1–1	STOP	
"H" 700+52	X		D3–100	HOSELTON RD	
			R1–1	STOP	
700+63	X		OM1–1	OBJECT MARKER	
700+69	X		W1–7	ARROW	
			OM1–1	OBJECT MARKER	
700+74	X		OM1–1	OBJECT MARKER	
700+80	X		R1–1	STOP	
701+03	X		R1–1	STOP	
701+32	X		D3–100	HOSELTON RD	
SUBTOTAL	**24**				EACH

615.0006.0000 – SALVAGE SIGN SUMMARY

STATION	LOCATION LT.	LOCATION RT.	CODE NO.	LEGEND	REMARKS
701+75	X		R6–1R	ONE WAY	
				DO NOT ENTER	
				STOP	
702+59	X		R6–1R	ONE WAY	
			R5–1	DO NOT ENTER	
			R1–1	STOP	
702+69	X		W3–1	STOP AHEAD	
703+70		X	R2–1	SPEED LIMIT	
704+90	X		R7–107a	BUS STOP	NOTE 15, SHEET H1
705+48	X		R6–1R	ONE WAY	
			R5–1	DO NOT ENTER	
705+96	X		R6–1R	ONE WAY	
			R5–1	DO NOT ENTER	
709+51	X		R1–1	STOP	
709+73		X	W1–7	ARROW	
			OM1–1	OBJECT MARKER	
713+93		X	W12–2	13'–6"	
			W16–2P	LOW CLEARANCE	
			W16–2P	1/2 MI AHEAD	
717+50	X		D3–100	HOSELTON RD	
			D3–100	PIKES LANDING RD	
			R1–1	STOP	
724+18	X		D3–100	CRANBERRY ST	
			R1–1	STOP	
726+03		X	R2–1	SPEED LIMIT	
726+05	X		R2–1	SPEED LIMIT	
729+40	X		R7–107a	BUS STOP	NOTE 15, SHEET H1
730+72	X		D3–100	ROSEBUD LN	
			R1–1	STOP	
733+71		X	W12–2	13'–6"	
			W16–2P	LOW CLEARANCE	
			W16–2P	500 FT AHEAD	
737+01		X	W1–1R	RIGHT TURN	
			W13–1	ADVISORY SPEED	
739+30	℄		W12–2a	13FT 6IN	RETAIN MOUNTING HARDWARE FOR NEW SIGN
SUBTOTAL	**19**				EACH

615.0006.0000 – SALVAGE SIGN SUMMARY

STATION	LOCATION LT.	LOCATION RT.	CODE NO.	LEGEND	REMARKS
740+59	℄		W12–2a	13FT 6IN	RETAIN MOUNTING HARDWARE FOR NEW SIGN
743+31		X	W11–1	BIKE	
			W11–15P	BIKE XING	
743+56	X		R7–107a	BUS STOP	NOTE 15, SHEET H1
743+73	X		W1–1L	LEFT TURN	
			W13–1	ADVISORY SPEED	
744+32	X		R1–1	STOP	
745+15	X		W12–2	13'–6"	
			W16–2P	LOW CLEARANCE	
APPROXIMATELY N 196,294, E 661,342			W12–2	13'–6"	NEAR THE BOAT STREET AND TVSA WAY INTERSECTION
			W16–2P	LOW CLEARANCE	
			W16–2P	500 FT AHEAD	
"A" 310+15	X		R5–1	DO NOT ENTER	
			R2–1	SPEED LIMIT	
310+18		X	R5–1	DO NOT ENTER	
313+95	X		R2–5a	REDUCED SPEED AHEAD	
313+98		X	R4–7B	KEEP RIGHT	
			OM1–1	OBJECT MARKER	
314+02		X	R5–1	DO NOT ENTER	
315+22	X		E5–1	EXIT	
317+49		X	D3–200	DALE ROAD	
320+15	X		D3–100	AIRPORT WAY	
			D3–100	WESTERN AVE	
			R1–1	STOP	
322+00	X		R2–1	SPEED LIMIT	
322+98		X	R2–1	SPEED LIMIT	
323+89	X		R2–5a	REDUCED SPEED AHEAD	
326+00	X		D1–101	STREET DIRECTIONS	
334+35		X	R2–1	SPEED LIMIT	
SUBTOTAL	**20**				EACH

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-H-OA-H30 Thu, Nov/05/20 02:00pm

SIGN SUMMARY

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER
####

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H31	H56

615.0006.0000 – SALVAGE SIGN SUMMARY

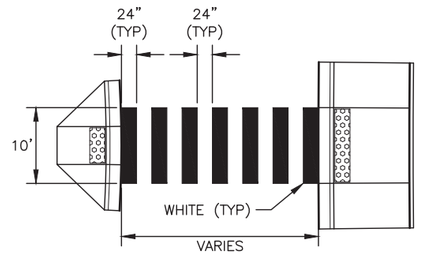
STATION	LOCATION LT.	LOCATION RT.	CODE NO.	LEGEND	REMARKS
337+96	X		R16–106	FINE FOR LITTERING	
338+01		X	D1–200	FAIRBANKS 2	
342+00		X	R8–4	EMERGENCY PARKING	
353+99	X		R2–1	SPEED LIMIT	
354+01		X	D3–200	DALE ROAD	
358+23		X	D3–100	OLD AIRPORT RD	
				STOP	
360+42	X		D7–102	RIVERBOAT DISCOVERY	
362+61	X		D3–200	DALE RD	
365+77	X		N/A	DO NOT LITTER	
369+97		X	R1–1	STOP	
370+31		X	W6–1	DIVIDED HIGHWAY	
372+01		X	R2–1	SPEED LIMIT	
373+95	℄		R4–7B	KEEP RIGHT	
			OM1–1	OBJECT MARKER	
"A2" 202+62		X	R2–1	SPEED LIMIT	
203+72		X	D3–201	STREET DIRECTIONS	
208+52		X	CUSTOM	RIDE SHARE ONLY	
209+09		X	CUSTOM	RIDE SHARE ONLY	
214+63		X	R6–1R	ONE WAY	
			R5–1	DO NOT ENTER	
			R1–1	STOP	
214+64	X		R6–1R	ONE WAY	
			R5–1	DO NOT ENTER	
			R1–1	STOP	
			R3–1	NO LEFT TURN	
			R3–1	NO RIGHT TURN	
"A3" 405+02		X	CUSTOM	SCULPTURE	
408+64		X	CUSTOM	ESA ALPHA BETA CHAPTER	
409+69		X	R16–118	BUCKLE UP	
411+63		X	D12–5	TRAVEL INFO	
413+42		X	D14–100	ADOPT–A–HIGHWAY	
SUBTOTAL	24				EACH

615.0006.0000 – SALVAGE SIGN SUMMARY

STATION	LOCATION LT.	LOCATION RT.	CODE NO.	LEGEND	REMARKS
"OA" 801+18		X	R5–1	DO NOT ENTER	
			N/A	PED X–ING	
801+29	X		R5–1	DO NOT ENTER	
801+40	X		R6–1R	ONE WAY	
801+63		X	CUSTOM	EVERTS PARKING ONLY	
801+68	X		D3–100	OLD AIRPORT RD	
			R6–1R	ONE WAY	
			R5–1	DO NOT ENTER	
			R1–1	STOP	
			R3–1	NO LEFT TURN	
802+16		X	CUSTOM	EVERTS PARKING ONLY	
802+76	X		CUSTOM	PERMIT PARKING ONLY	
802+89		X	CUSTOM	EVERTS PARKING ONLY	
803+36	X		CUSTOM	PERMIT PARKING ONLY	
803+96	X		CUSTOM	PERMIT PARKING ONLY	
804+47		X	R2–1	SPEED LIMIT	
804+55	X		CUSTOM	PERMIT PARKING ONLY	
804+65		X	R7–107a	BUS STOP	NOTE 15, SHEET H1
816+81	X		R1–1	STOP	
817+64		X	R1–1	STOP	
818+11		X	R2–1	SPEED LIMIT	
832+37		X	R1–1	STOP	
833+30	X		R2–1	SPEED LIMIT	
833+52		X	R7–107a	BUS STOP	NOTE 15, SHEET H1
834+82		X	R1–1	STOP	
835+55		X	W1–7	ARROW	
			OM1–1	OBJECT MARKER	
			D3–100	OLD AIRPORT RD	
836+29	X		R1–1	STOP	
837+80		X	R2–1	SPEED LIMIT	
849+75	X		R1–2	YIELD	
850+73		X	W14–2	NO OUTLET	
SUBTOTAL	25				EACH
TOTAL	112				EACH

670.2002.0000 – STRIPING SUMMARY

DESCRIPTION	THICKNESS (MILS)	QUANTITY	UNIT	REMARKS
4"W	125	30,256	LF	
	250	14,834	LF	
4"WS	250	11,011	LF	
4"Y	125	331	LF	
	250	3,361	LF	
4"YS	125	2,660	LF	
4"DY	125	11,445	LF	
	250	6,237	LF	
8"W	250	1,789	LF	
18"W	125	186	SF	
	250	1,363	SF	
18"Y	125	84	SF	
	250	423	SF	
24"W	125	1,036	SF	
	250	310	SF	
RIGHT TURN ARROW	250	3	EA	



LADDER CROSSWALK

SIGN & STRIPING SUMMARIES

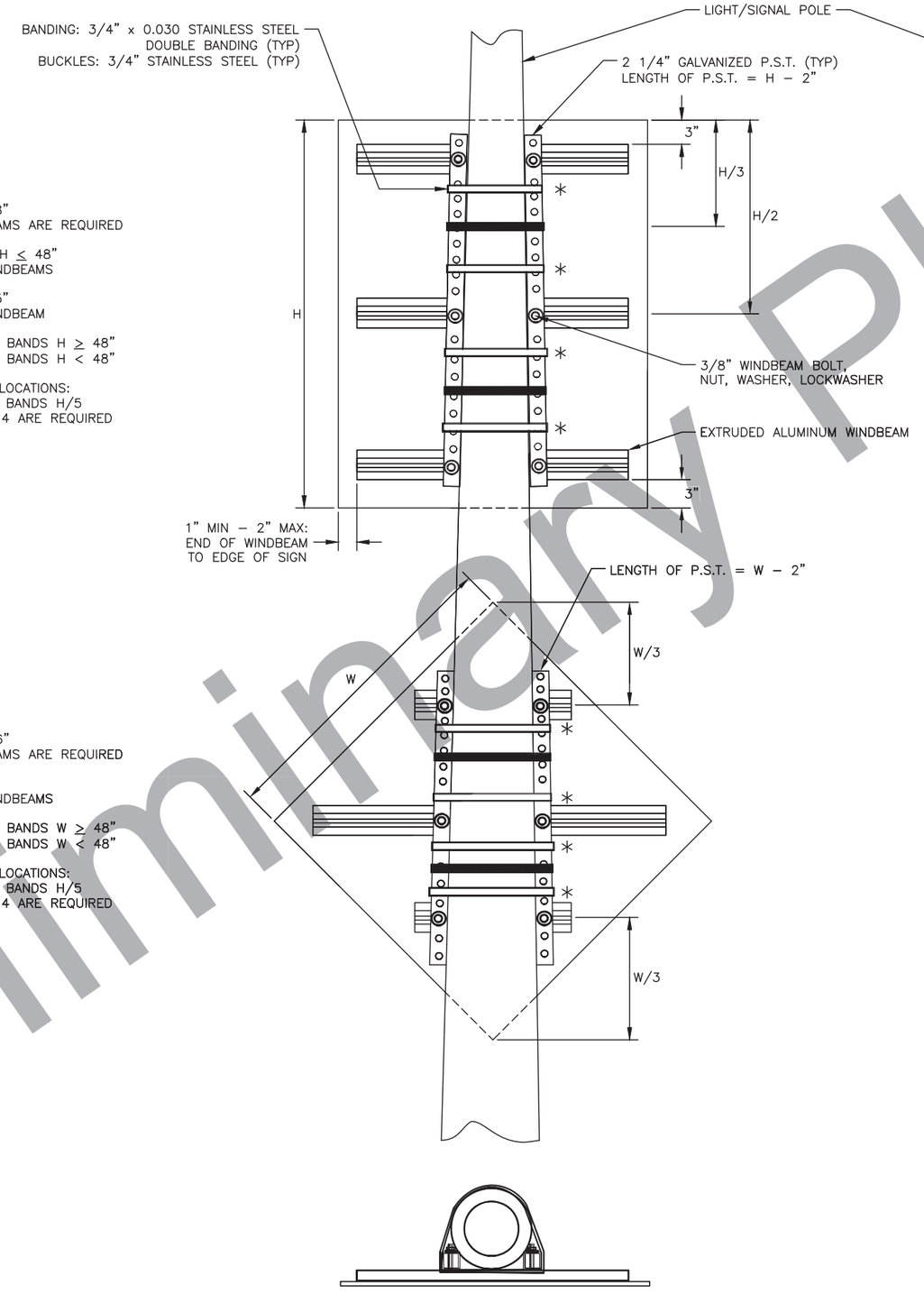
STATE OF ALASKA
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NOV 2020
REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522–1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872–H–OA–H31 Thu, Nov/05/20 02:00pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H32	H56



IF H > 48"
3 WINDBEAMS ARE REQUIRED

IF 15" < H ≤ 48"
USE 2 WINDBEAMS

IF H ≤ 15"
USE 1 WINDBEAM

USE 4 BANDS H ≥ 48"
USE 2 BANDS H < 48"

∗ BAND LOCATIONS:
SPACE BANDS H/5
WHEN 4 ARE REQUIRED

IF W ≥ 36"
3 WINDBEAMS ARE REQUIRED

IF < 36"
USE 2 WINDBEAMS

USE 4 BANDS W ≥ 48"
USE 2 BANDS W < 48"

∗ BAND LOCATIONS:
SPACE BANDS H/5
WHEN 4 ARE REQUIRED

NOTE:

1. ATTACH SIGN TO WINDBEAMS WITH 3/16" RIVETS AT 4" STAGGERED SPACING.

Preliminary Plans

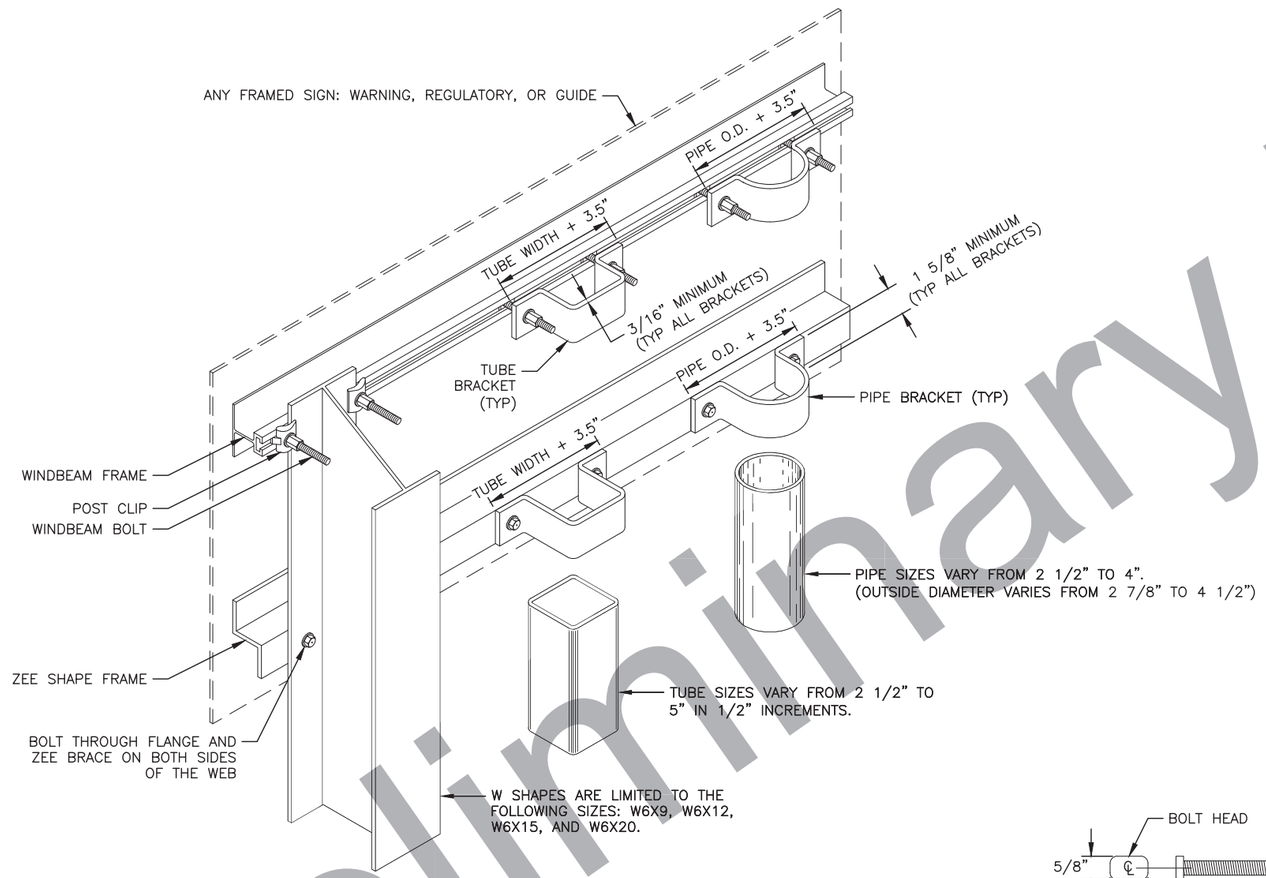
STATE OF ALASKA
REVIEW PS&E
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SIGN DETAILS

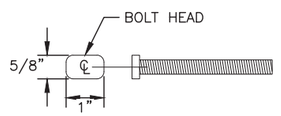
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H33	H56



FRAMED SIGN ATTACHMENT BRACKETS



3/8" WINDBEAM BOLT

NOTES:

1. 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 OR A BRACKET WITH SQUARE CORNERS ON TUBES.
2. THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
3. THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
4. ALUMINUM ALLOY 6061–T6 SHALL BE USED FOR ZEE SHAPE FRAMING AND RIVETS.

FASTENER SPECIFICATION TABLE		
FASTENERS	STEEL	STAINLESS STEEL
BOLTS	ASTM A 307	ASTM F 593
NUTS	ASTM A 563	ASTM F 594
WASHERS	ASTM A 36	ASTM A 480

Preliminary Plans

SIGN DETAILS

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872–H–0A–H33 Thu, Nov/05/20 02:00pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H34	H56

GENERAL

SYMBOL	DESCRIPTION
	SHEET NOTE CONVENTION:
1	REFERENCED SHEET NOTE
2.	GENERAL SHEET NOTE
C####	CONDUIT RUN CALL OUT (REFERENCE SCHEDULES)
1 / E0.1	DETAIL REFERENCE: 1 = DETAIL NUMBER; E0.1 = SHEET WHERE DETAIL APPEARS

LIGHTING

SYMBOL	DESCRIPTION
□	TYPE 1A J-BOX
⊠	EXISTING LOAD CENTER
	MAST ARM STYLE ELECTROLIER
SXXX	EXISTING ELECTROLIER
	ELECTRICAL VAULT

ABBREVIATIONS

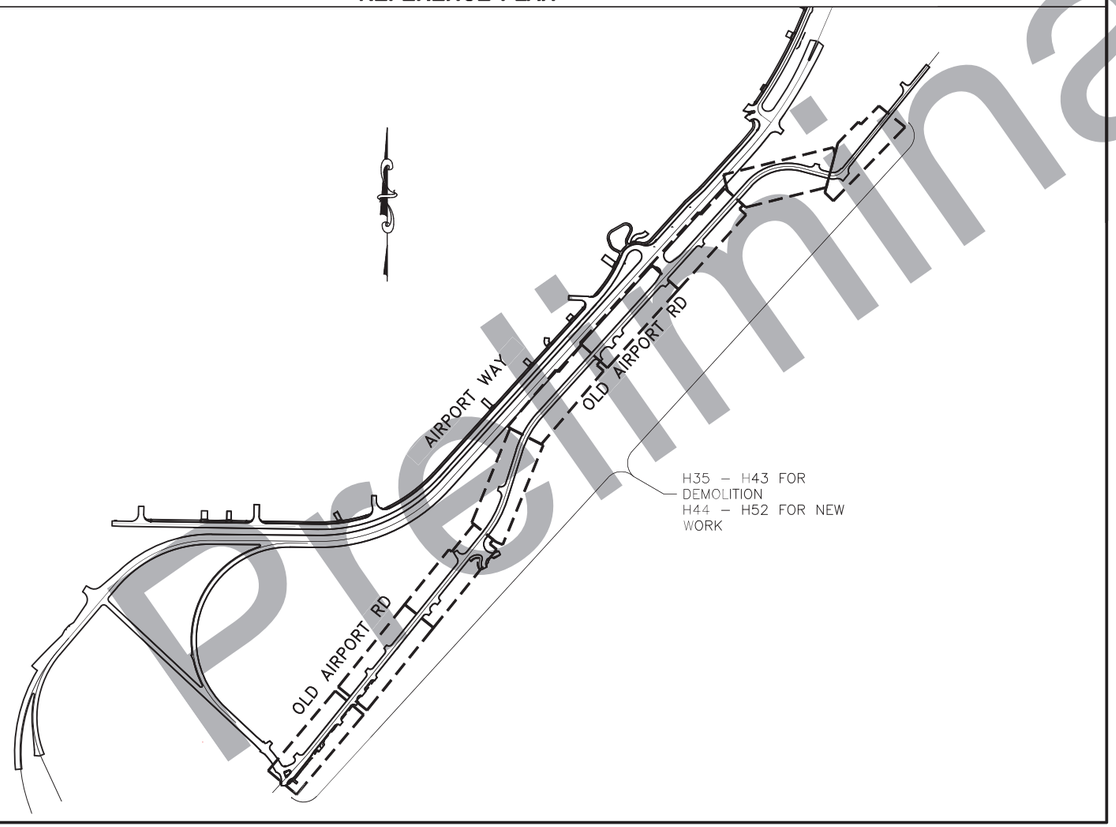
ACS	ALASKA COMMUNICATIONS SYSTEMS
AK	ALASKA
AWG	AMERICAN WIRE GUAGE
CIDH	CAST (CONCRETE) IN DRILLED HOLE
CUC	COLLEGE UTILITIES CORPORATION
DOT&PF	ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
ETR	EXISTING TO REMAIN
FDN	FOUNDATION
FMATS	FAIRBANKS METROPOLITAN AREA TRANSPORTATION SYSTEM
FNG	FAIRBANKS NATURAL GAS
GHU	GOLDEN HEART UTILITIES
GRC	GALVANIZED RIGID CONDUIT
GVEA	GOLDEN VALLEY ELECTRICAL ASSOCIATION
HPS	HIGH PRESSURE SODIUM
JBOX	JUNCTION BOX
IAW	IN ACCORDANCE WITH
MC	MEDIUM CUTOFF
NB	NORTH BOUND
PCC	PORTLAND CEMENT CONCRETE
ROW	RIGHT OF WAY
SB	SOUTH BOUND
UON	UNLESS OTHERWISE NOTED

PROJECT NOTES

1. CALL FOR LOCATES PRIOR TO THE START OF CONSTRUCTION. ALL POTENTIAL CONFLICTS WITH EXISTING BURIED UTILITIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT ENGINEER PRIOR TO THE START OF CONSTRUCTION.
2. USE 3C#10 XHHW UP POLE TO LUMINAIRE.
3. PROVIDE FUSED QUICK DISCONNECT CONNECTORS IN THE BASE OF EACH POLE. FUSES SHALL BE 5 AMP.
4. CONDUIT SHALL BE GRC, UNLESS OTHERWISE NOTED IN THE CONDUIT AND WIRE SCHEDULE.
5. ELECTRICAL WORK SHALL COMPLY WITH THE LATEST APPLICABLE EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC), AND THE AK DOT&PF STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED PERMITS AND APPROVALS PRIOR TO THE START OF CONSTRUCTION.
7. REFERENCE SCHEDULE SHEETS FOR ELECTROLIER, JUNCTION BOX, AND CONDUIT & WIRE SCHEDULES.
8. STATION AND OFFSETS ARE TO CENTERLINE OF STRUCTURE, UON.
9. LIGHTING CIRCUITS IN EXCESS OF 300V SHALL NOT SHARE JUNCTION BOXES WITH LOW VOLTAGE CIRCUITS.
10. THE FOLLOWING STATE STANDARD DRAWINGS APPLY TO THE ILLUMINATION AND ELECTRICAL DRAWINGS AS MODIFIED OR OTHERWISE REVISED PER THE DETAILS ON SHEETS H55 AND H56:
    L-03.10 - LIGHTING STANDARD

NOTE: THIS IS A STANDARD LEGEND. NOT ALL SYMBOLS NECESSARILY APPEAR ON THE DRAWINGS

REFERENCE PLAN



660.0003.0000

HIGHWAY LIGHTING SYSTEM - BASIS OF ESTIMATE

ITEM	DESCRIPTION	DEMOLISH	NEW	QUANTITY	REMARKS
1	DEMOLISH EXISTING ELECTROLIER FOUNDATION - CIDH	X		24	SUBSIDIARY TO 660.0003.0000.
2	DEMOLISH EXISTING ELECTROLIER - MAST ARM STYLE	X		24	SUBSIDIARY TO 660.0003.0000.
3	DEMOLISH EXISTING JBOX	X		28	SUBSIDIARY TO 660.0003.0000.
4	DEMOLISH EXISTING 2 INCH GRC	X		4960'	SUBSIDIARY TO 660.0003.0000.
5	DEMOLISH EXISTING 3C#8 AWG	X		4960'	SUBSIDIARY TO 660.0003.0000.
6	DEMOLISH EXISTING 3C#10 AWG	X		1440'	ASSUME 60 FT PER ELECTROLIER. SUBSIDIARY TO 660.0003.0000
7	PROVIDE ELECTROLIER FOUNDATION - CIDH PCC		X	30	SUBSIDIARY TO 660.0003.0000. SEE NOTE 1.
8	PROVIDE ELECTROLIER POLE - MAST ARM STYLE		X	30	SUBSIDIARY TO 660.0003.0000. SEE NOTE 2
9	PROVIDE ELECTROLIER MAST ARM		X	31	SUBSIDIARY TO 660.0003.0000. SEE NOTE 2
10	PROVIDE LUMINAIRE - LED, 250W HPS EQUIVALENT		X	31	SUBSIDIARY TO 660.0003.0000. SEE NOTE 2
11	PROVIDE FRANGIBLE COUPLING BREAK AWAY BASE		X	30	SUBSIDIARY TO 660.0003.0000. SEE NOTE 1
12	PROVIDE JBOX - TYPE 1A		X	32	SUBSIDIARY TO 660.0003.0000. SEE NOTE 2
13	2 INCH GRC		X	4950'	SUBSIDIARY TO 660.0003.0000. SEE NOTE 2
14	3C#8 AWG		X	5100'	SUBSIDIARY TO 660.0003.0000. SEE NOTE 2
15	3C#10 AWG		X	1860'	SUBSIDIARY TO 660.0003.0000. SEE NOTE 2

NOTE 1: PROVIDE PER STANDARD DRAWING L-30.10 AND APPLICABLE DETAILS ON SHEETS H55 AND H56.
NOTE 2: PROVIDE PER STANDARD DRAWING L-03.10 AND APPLICABLE DETAILS ON SHEETS H55 AND H56.
NOTE 3: PROVIDE PER STANDARD DRAWING L-23.01 AND APPLICABLE DETAILS ON SHEETS H55 AND H56.

661.0002.0000

ELECTRICAL LOAD CENTER - BASIS OF ESTIMATE

ITEM	DESCRIPTION	DEMOLISH	NEW	RELOCATE	QUANTITY	REMARKS
1	LOAD CENTER - TYPE 1A		X		1	COORDINATE ELECTRICAL SERVICE TO LOAD CENTER WITH GVEA

Preliminary Plans

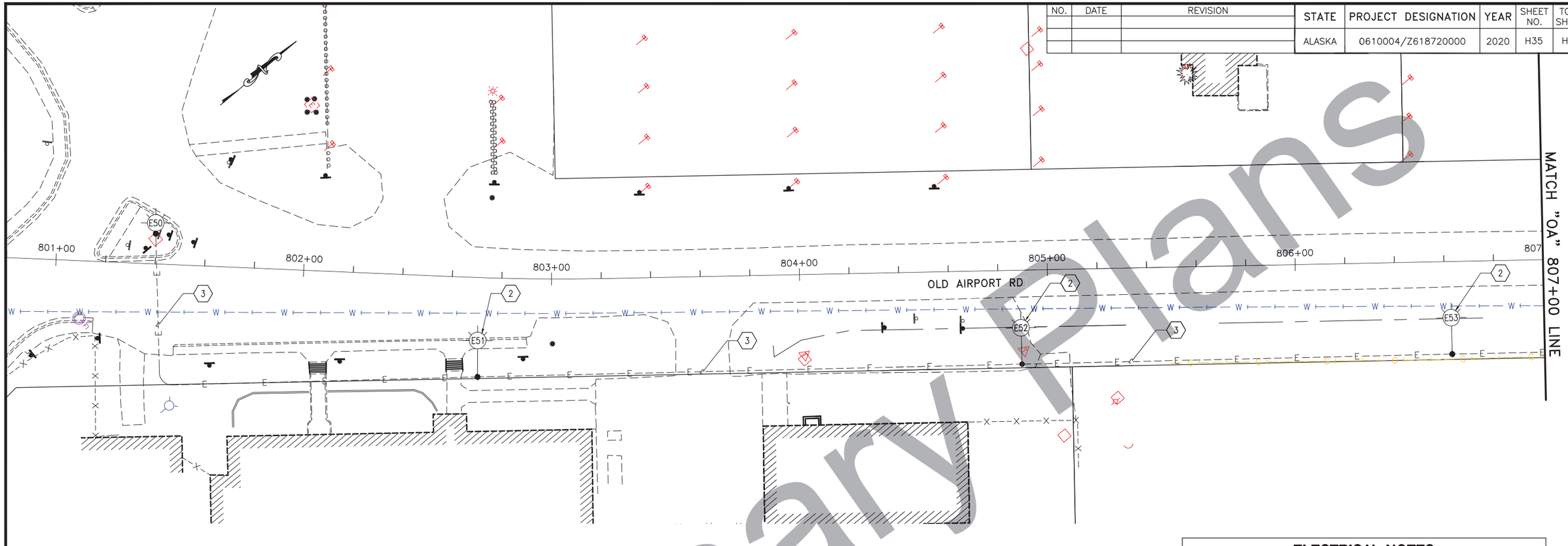
STATE OF ALASKA
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REGISTERED PROFESSIONAL ENGINEER

LEGEND AND SCHEDULES

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: CO342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs - Phase 2\Edwg\61872-H-0A_Electrical-H34 Thu, Nov/05/20 12:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H35	H56



ELECTRICAL NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

(2) DEMOLISH EXISTING ELECTROLIER, ASSOCIATED FOUNDATION, AND ASSOCIATED JUNCTION BOX.

(3) DEMOLISH EXISTING HIGHWAY LIGHTING CIRCUIT CONDUIT AND CONDUCTORS.

Preliminary Plans

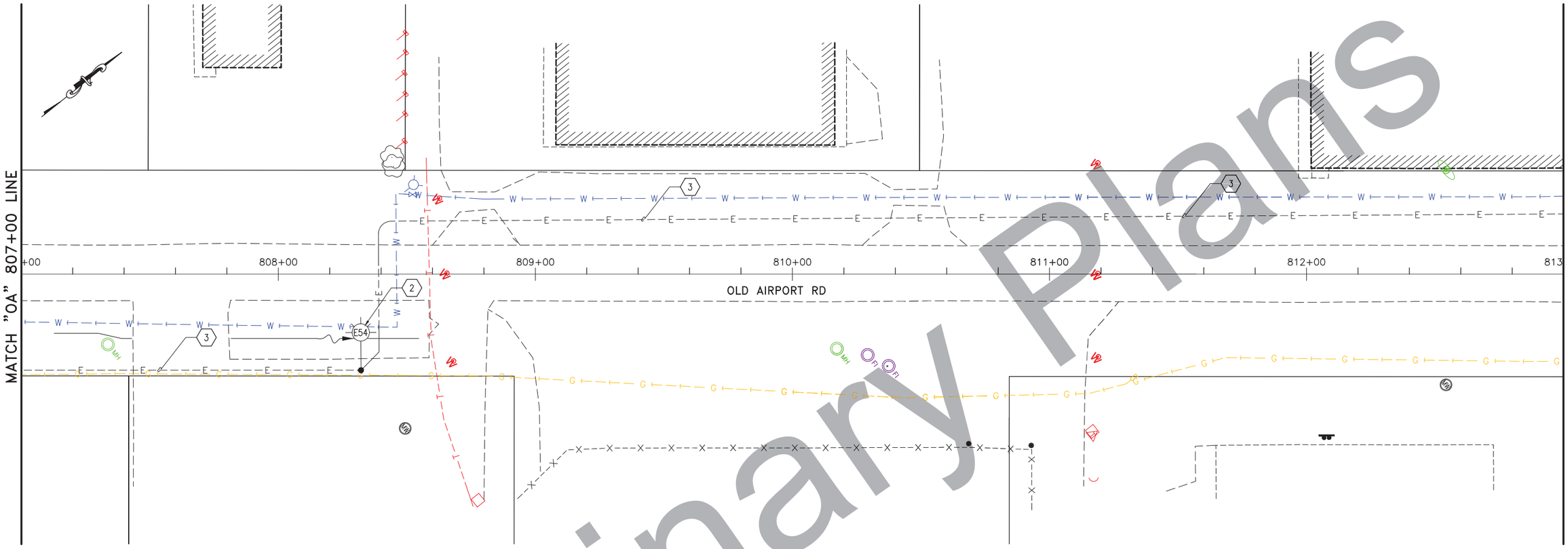
DEMOLITION PLAN
SHEET 1 OF 9

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PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: C0342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs – Phase 2\Edwg\61872-H-OA_Electrical-DEMO-H35 Thu, Nov/05/20 12:53pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H36	H56



ELECTRICAL NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

(2) DEMOLISH EXISTING ELECTROLIER, ASSOCIATED FOUNDATION, AND ASSOCIATED JUNCTION BOX.

(3) DEMOLISH EXISTING HIGHWAY LIGHTING CIRCUIT CONDUIT AND CONDUCTORS.

Preliminary Plans

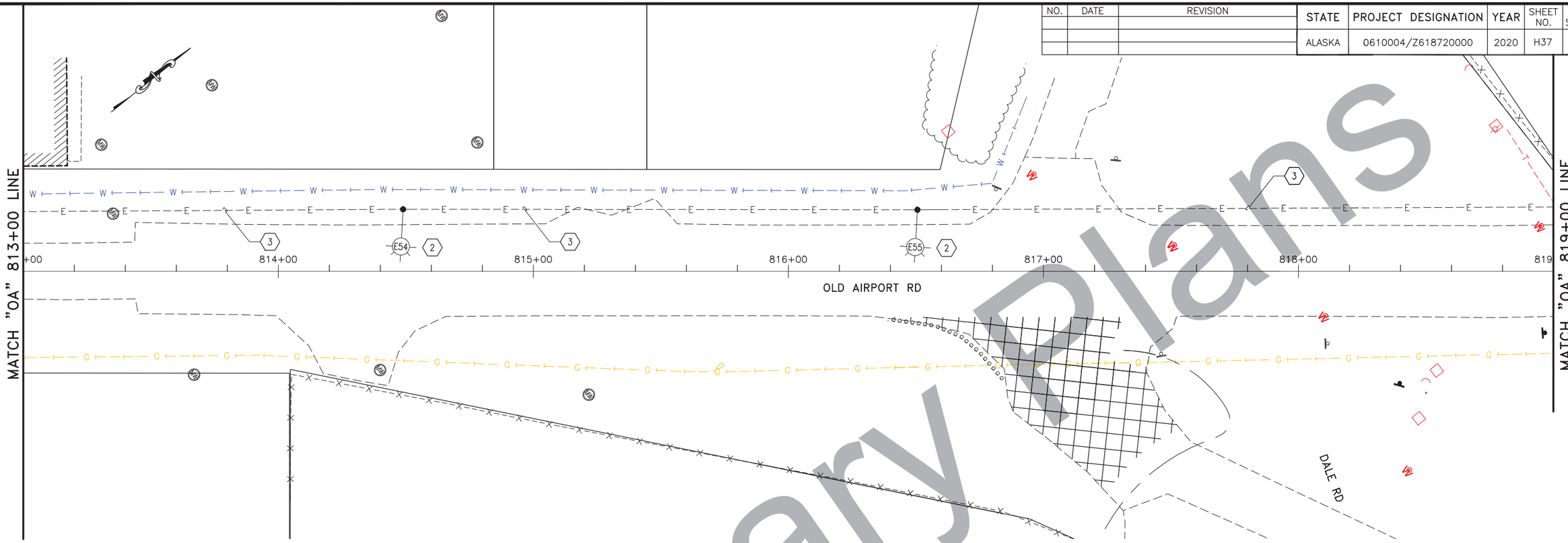
DEMOLITION PLAN
SHEET 2 OF 9

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X:\19806 DOTAIRPORTWEST\Dwgs – Phase 2\Edwg\61872-H-OA_Electrical-DEMO-H36 Thu, Nov/05/20 12:54pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H37	H56



ELECTRICAL NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

(2) DEMOLISH EXISTING ELECTROLIER, ASSOCIATED FOUNDATION, AND ASSOCIATED JUNCTION BOX.

(3) DEMOLISH EXISTING HIGHWAY LIGHTING CIRCUIT CONDUIT AND CONDUCTORS.

Preliminary Plans

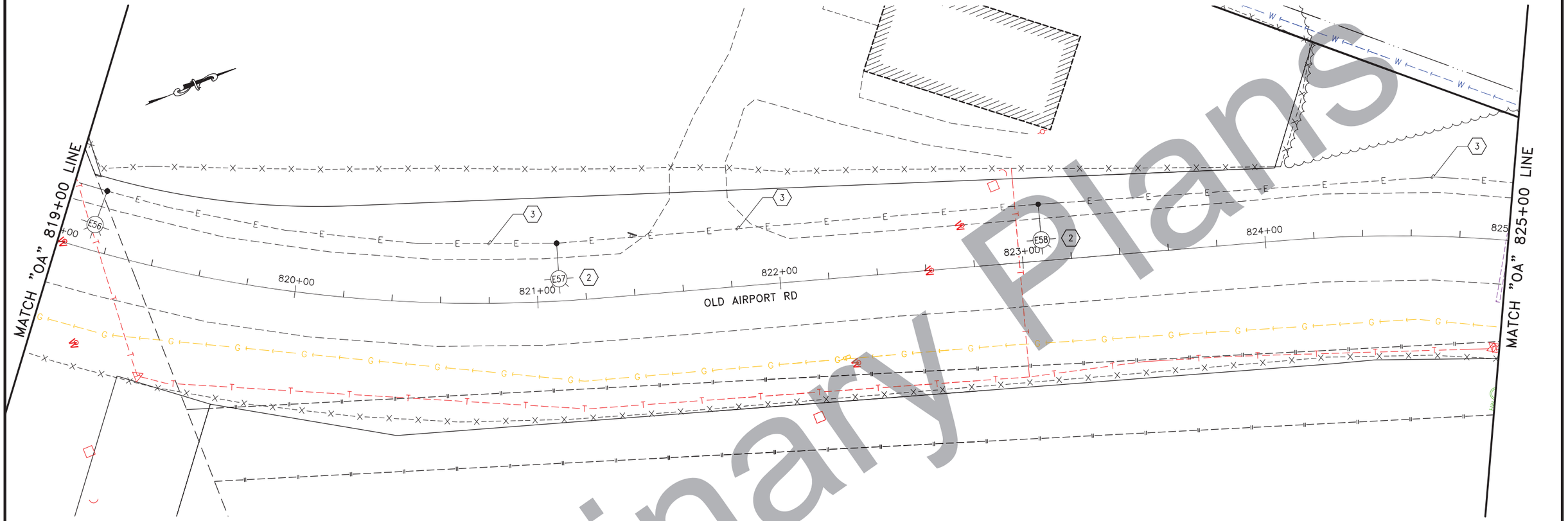
DEMOLITION PLAN
SHEET 3 OF 9

STATE OF ALASKA
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NOV 2020
REGISTERED PROFESSIONAL ENGINEER
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X:\19806 DOTAIRPORTWEST\Dwgs - Phase 2\Edwg\61872-H-OA_Electrical-DEMO-H37 Thu, Nov/05/20 12:54pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H38	H56



ELECTRICAL NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

(2) DEMOLISH EXISTING ELECTROLIER, ASSOCIATED FOUNDATION, AND ASSOCIATED JUNCTION BOX.

(3) DEMOLISH EXISTING HIGHWAY LIGHTING CIRCUIT CONDUIT AND CONDUCTORS.

Preliminary Plans

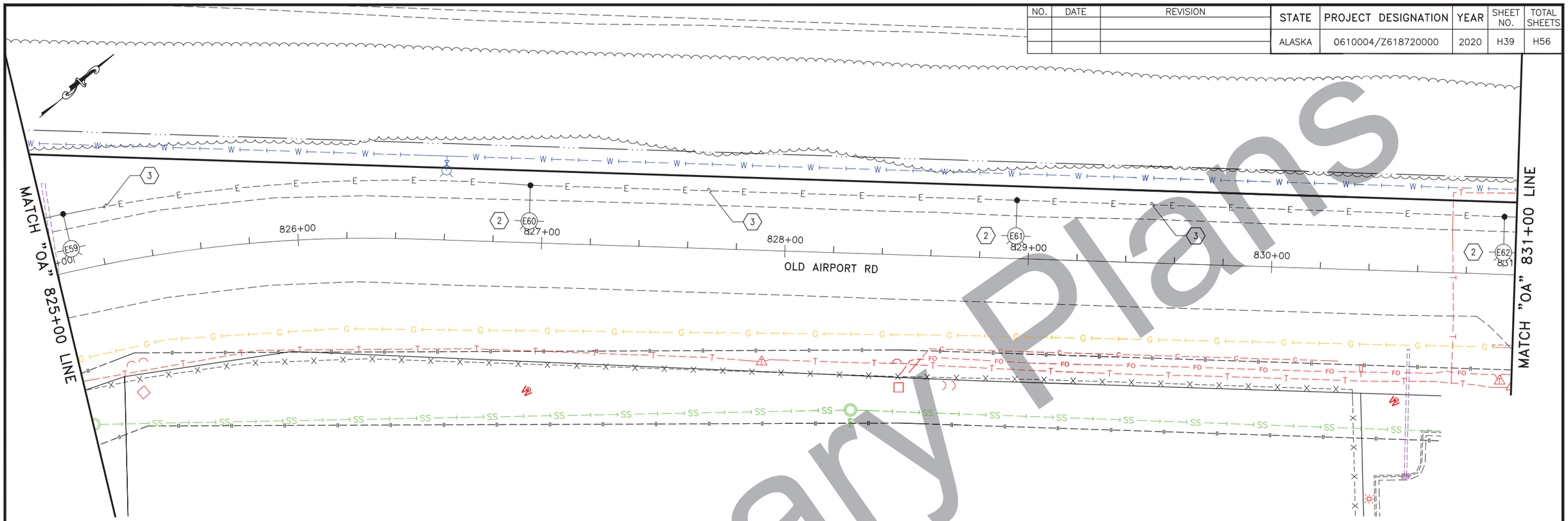
DEMOLITION PLAN
SHEET 4 OF 9

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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: CO342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs – Phase 2\Edwg\61872-H-OA_Electrical-DEMO-H38 Thu, Nov/05/20 12:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H39	H56



ELECTRICAL NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

(2) DEMOLISH EXISTING ELECTROLIER, ASSOCIATED FOUNDATION, AND ASSOCIATED JUNCTION BOX.

(3) DEMOLISH EXISTING HIGHWAY LIGHTING CIRCUIT CONDUIT AND CONDUCTORS.

Preliminary Plans

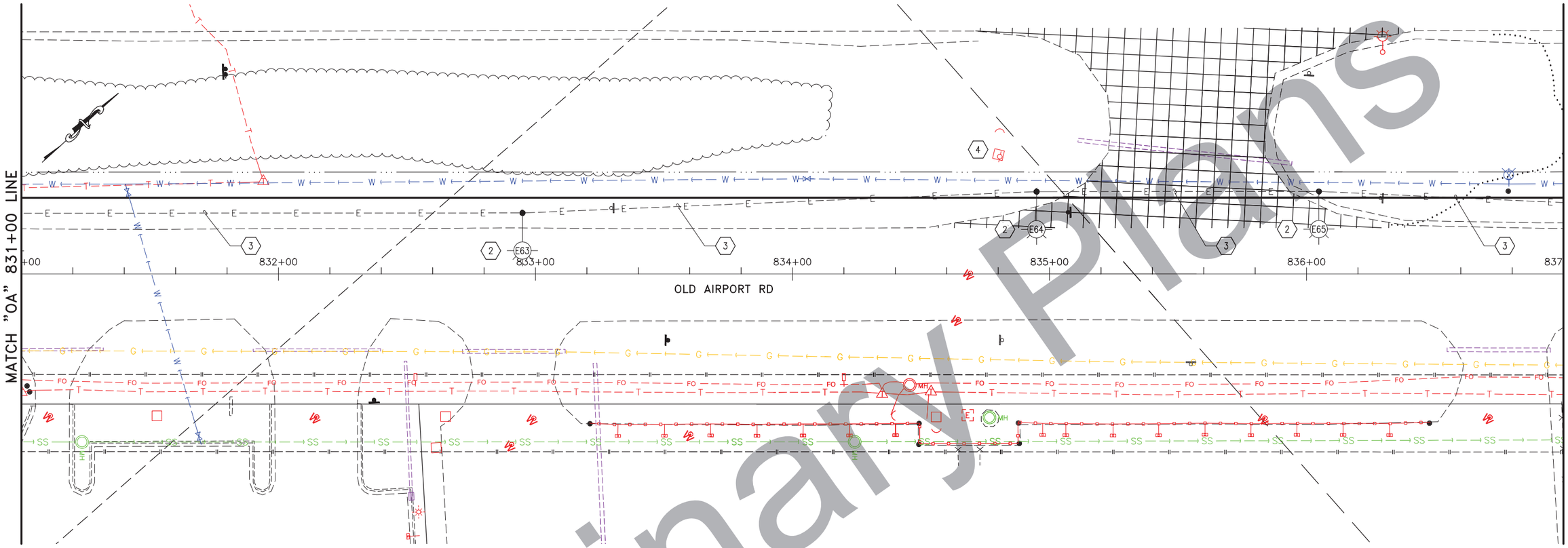
DEMOLITION PLAN
SHEET 5 OF 9

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H40	H56



ELECTRICAL NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

(2) DEMOLISH EXISTING ELECTROLIER, ASSOCIATED FOUNDATION, AND ASSOCIATED JUNCTION BOX.

(3) DEMOLISH EXISTING HIGHWAY LIGHTING CIRCUIT CONDUIT AND CONDUCTORS.

(4) DISCONNECT EXISTING LOADS FROM EXISTING WOOD UTILITY POLE MOUNTED LOAD CENTER AND RETAIN ALL EXCEPT THE OLD AIRPORT ROAD LIGHTING CIRCUIT(S) FOR RECONNECTION TO NEW LOAD CENTER PROVIDED IAW SHEET H49. DEMOLISH EXISTING LOAD CENTER. REFER TO SHEET H49 FOR ADDITIONAL INFORMATION.

Preliminary Plans

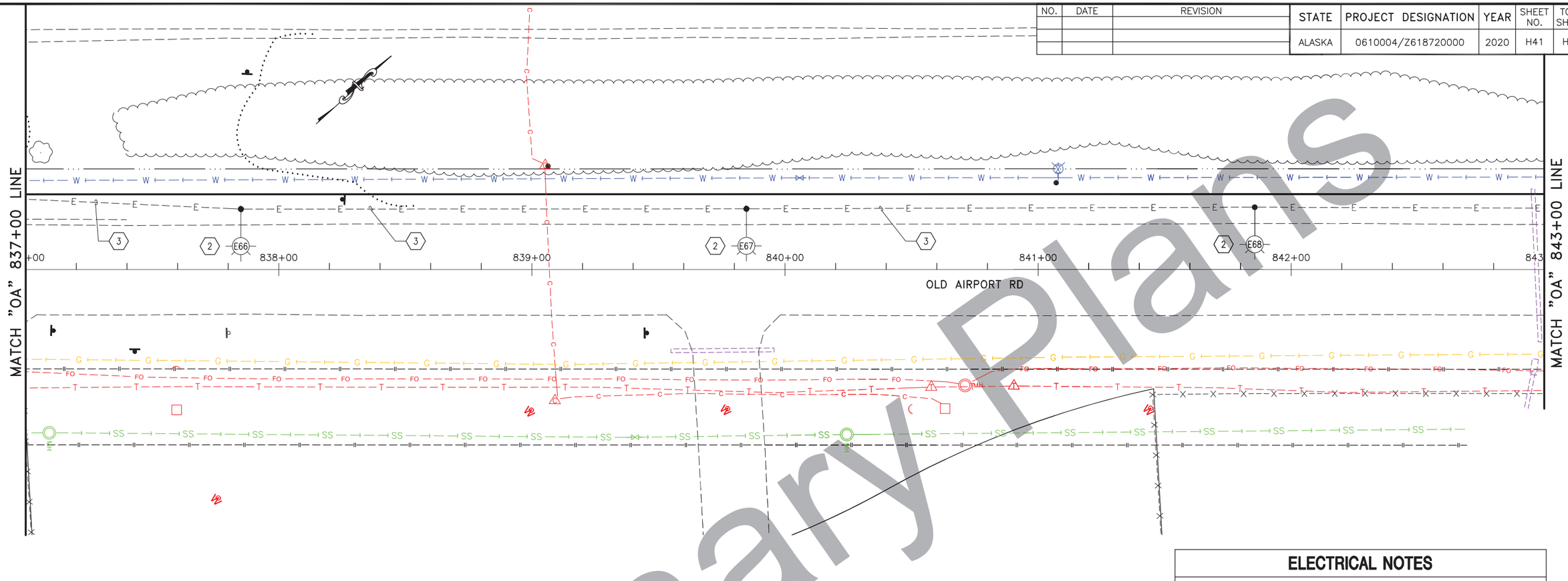
DEMOLITION PLAN
SHEET 6 OF 9

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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: C0342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs – Phase 2\Edwg\61872-H-OA_Electrical-DEMO-H40 Thu, Nov/05/20 12:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H41	H56



ELECTRICAL NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

(2) DEMOLISH EXISTING ELECTROLIER, ASSOCIATED FOUNDATION, AND ASSOCIATED JUNCTION BOX.

(3) DEMOLISH EXISTING HIGHWAY LIGHTING CIRCUIT CONDUIT AND CONDUCTORS.

Preliminary Plans

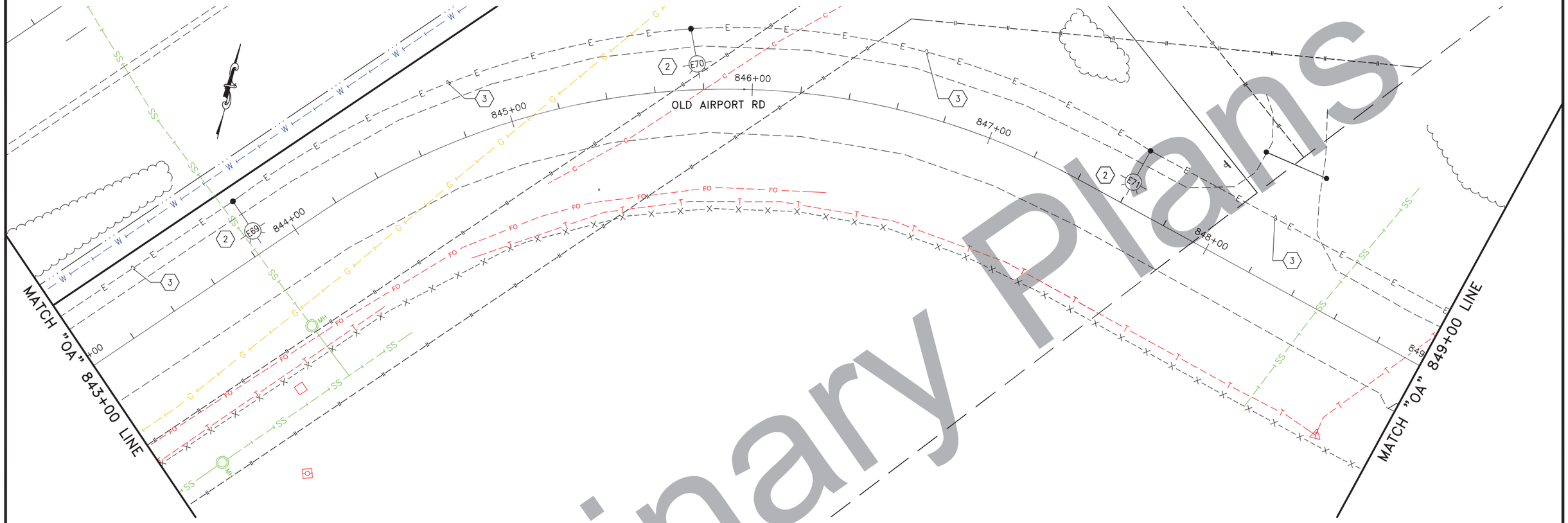
DEMOLITION PLAN
SHEET 7 OF 9

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER
####

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: C0342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs – Phase 2\Edwg\61872-H-OA_Electrical-DEMO-H41 Thu, Nov/05/20 12:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H42	H56



ELECTRICAL NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

(2) DEMOLISH EXISTING ELECTROLIER, ASSOCIATED FOUNDATION, AND ASSOCIATED JUNCTION BOX.

(3) DEMOLISH EXISTING HIGHWAY LIGHTING CIRCUIT CONDUIT AND CONDUCTORS.

Preliminary Plans

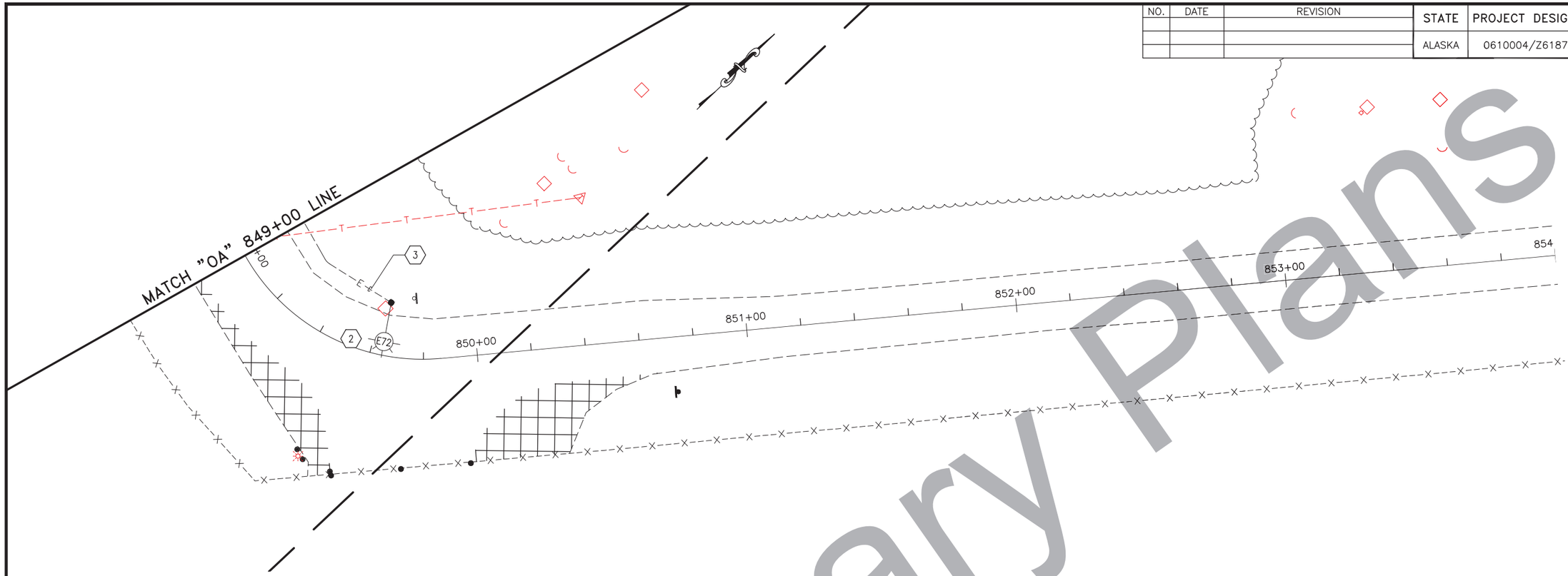
DEMOLITION PLAN
SHEET 8 OF 9

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H43	H56



ELECTRICAL NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

(2) DEMOLISH EXISTING ELECTROLIER, ASSOCIATED FOUNDATION, AND ASSOCIATED JUNCTION BOX.

(3) DEMOLISH EXISTING HIGHWAY LIGHTING CIRCUIT CONDUIT AND CONDUCTORS.

Preliminary Plans

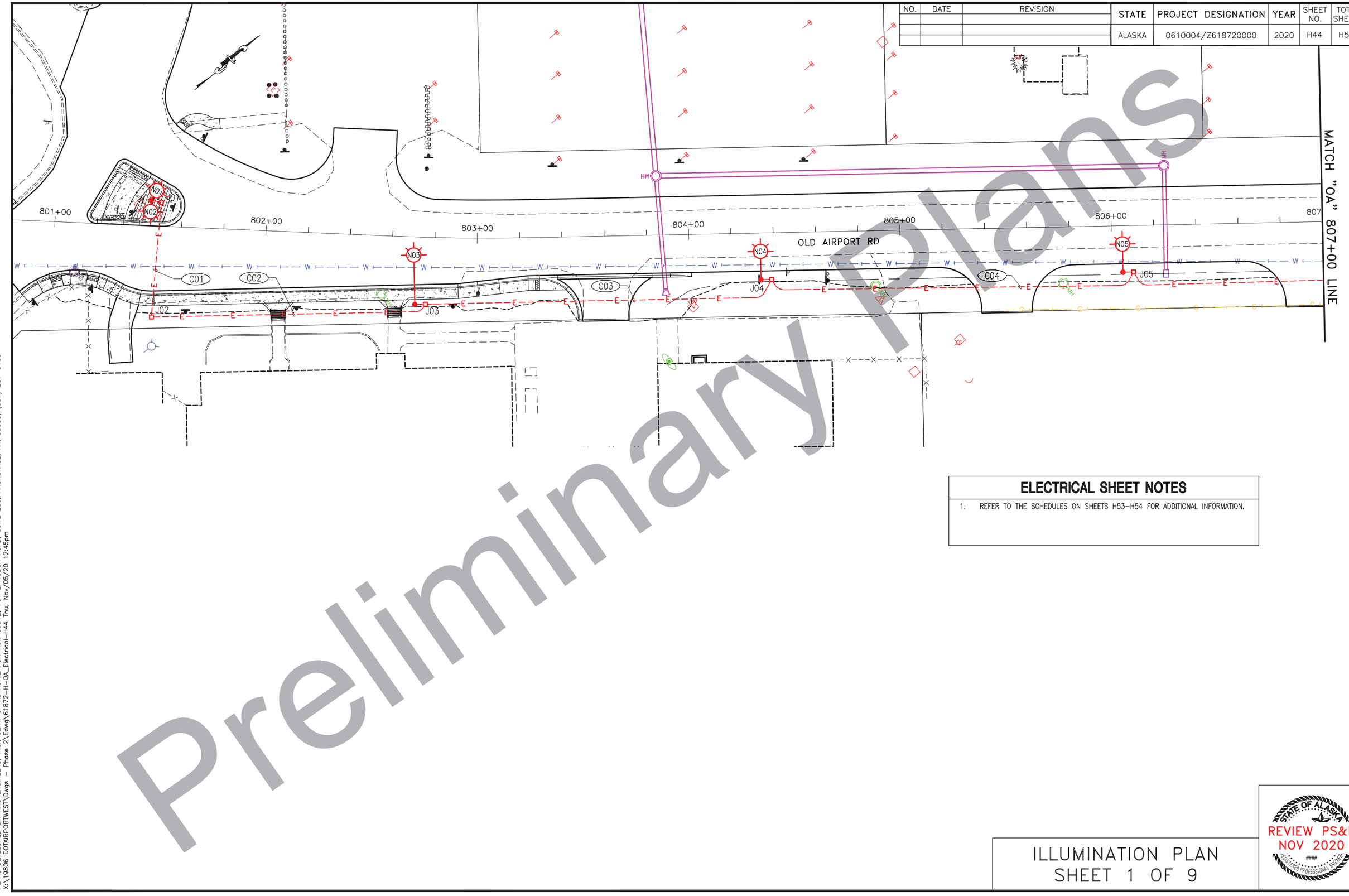
DEMOLITION PLAN
SHEET 9 OF 9

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER
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PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: C0342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs - Phase 2\Edwg\61872-H-OA_Electrical-DEMO-H43 Thu, Nov/05/20 12:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H44	H56



ELECTRICAL SHEET NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

Preliminary Plans

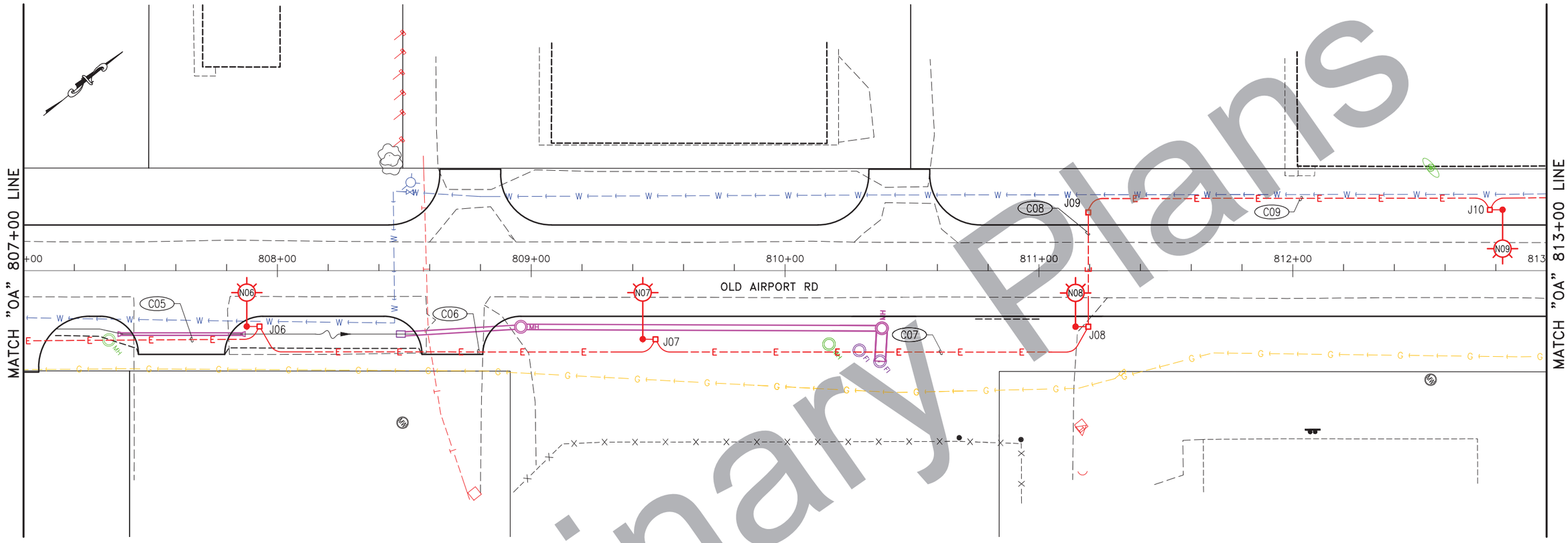
ILLUMINATION PLAN
SHEET 1 OF 9

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: CO342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H45	H56



ELECTRICAL SHEET NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

Preliminary Plans

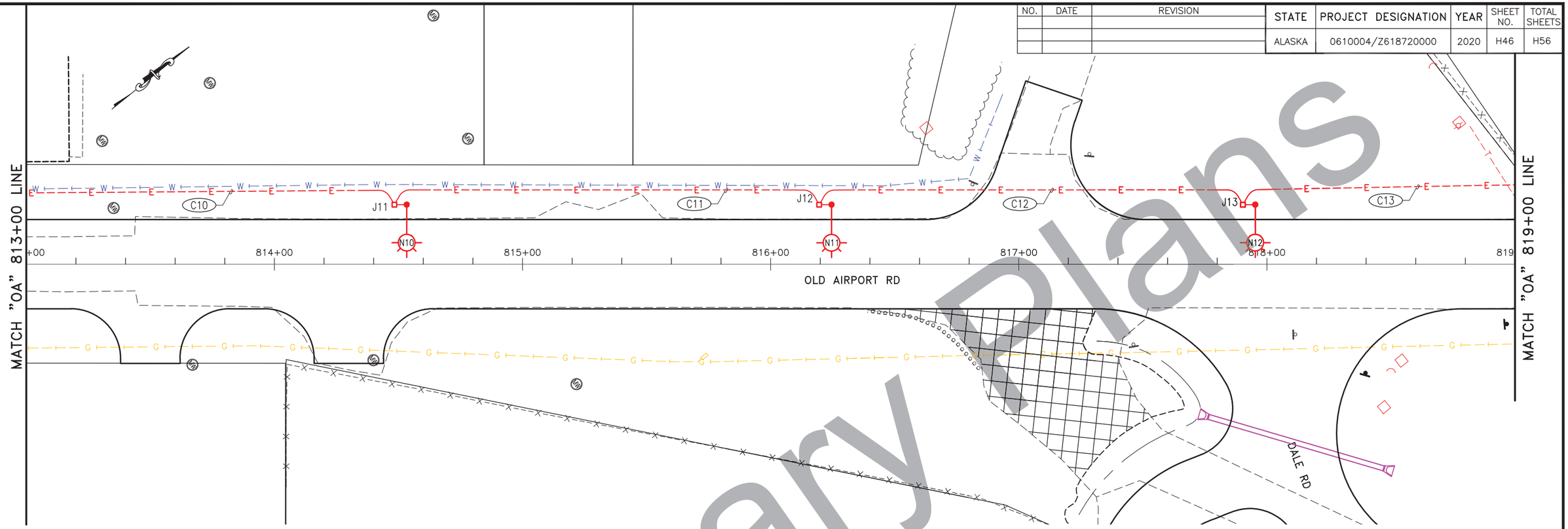
ILLUMINATION PLAN
SHEET 2 OF 9

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: CO342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs – Phase 2\Edwg\61872-H-OA_Electrical-H45 Thu, Nov/05/20 12:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H46	H56



ELECTRICAL SHEET NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

Preliminary Plans

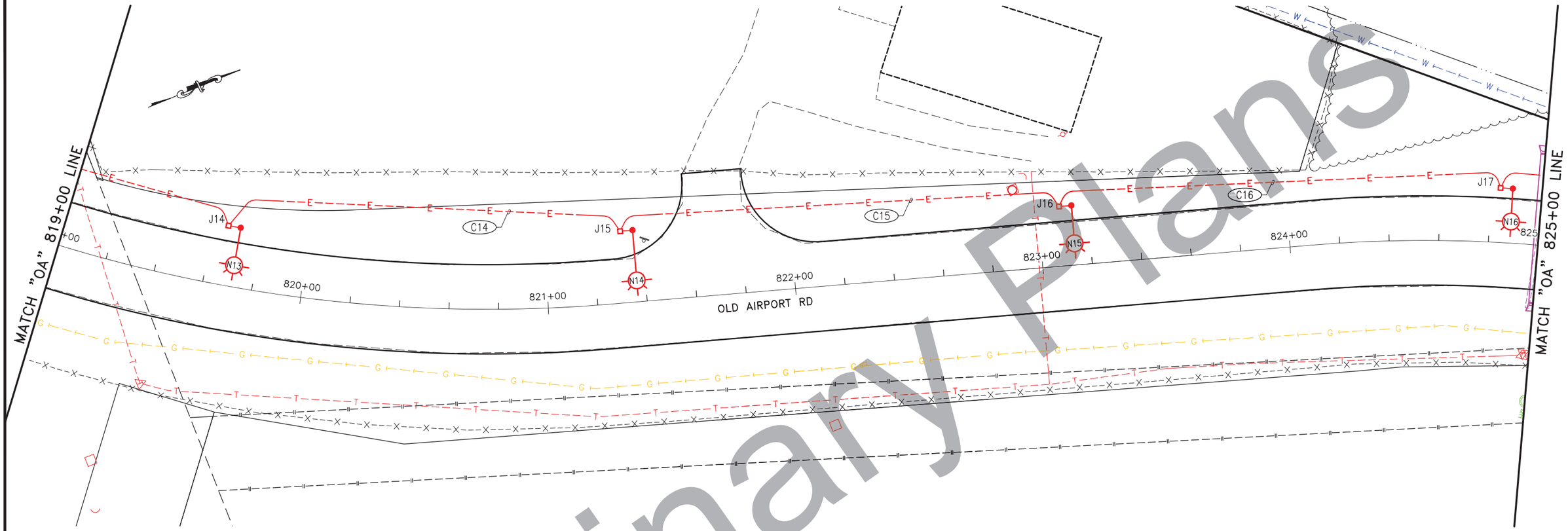
ILLUMINATION PLAN
SHEET 3 OF 9

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: CO342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs – Phase 2\Edwg\61872-H-OA_Electrical-H46 Thu, Nov/05/20 12:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H47	H56



Preliminary Plans

ELECTRICAL SHEET NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53-H54 FOR ADDITIONAL INFORMATION.

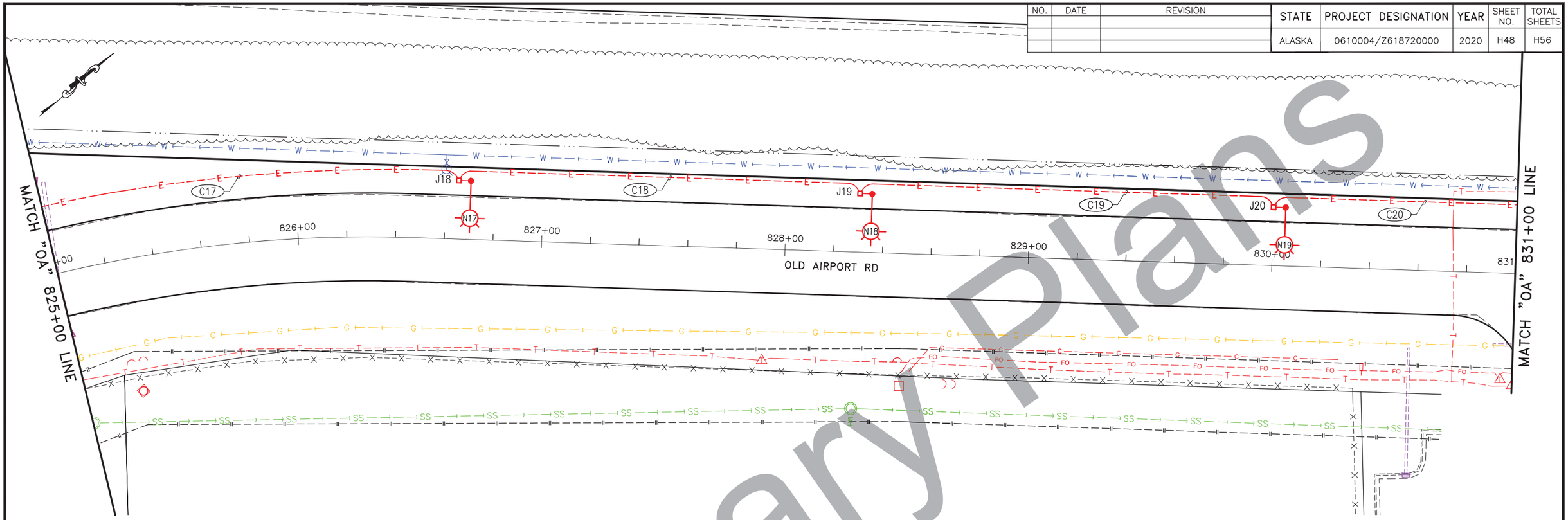
ILLUMINATION PLAN
SHEET 4 OF 9

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: CO342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs - Phase 2\Edwg\61872-H-OA_Electrical-H47 Thu, Nov/05/20 12:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H48	H56



ELECTRICAL SHEET NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

Preliminary Plans

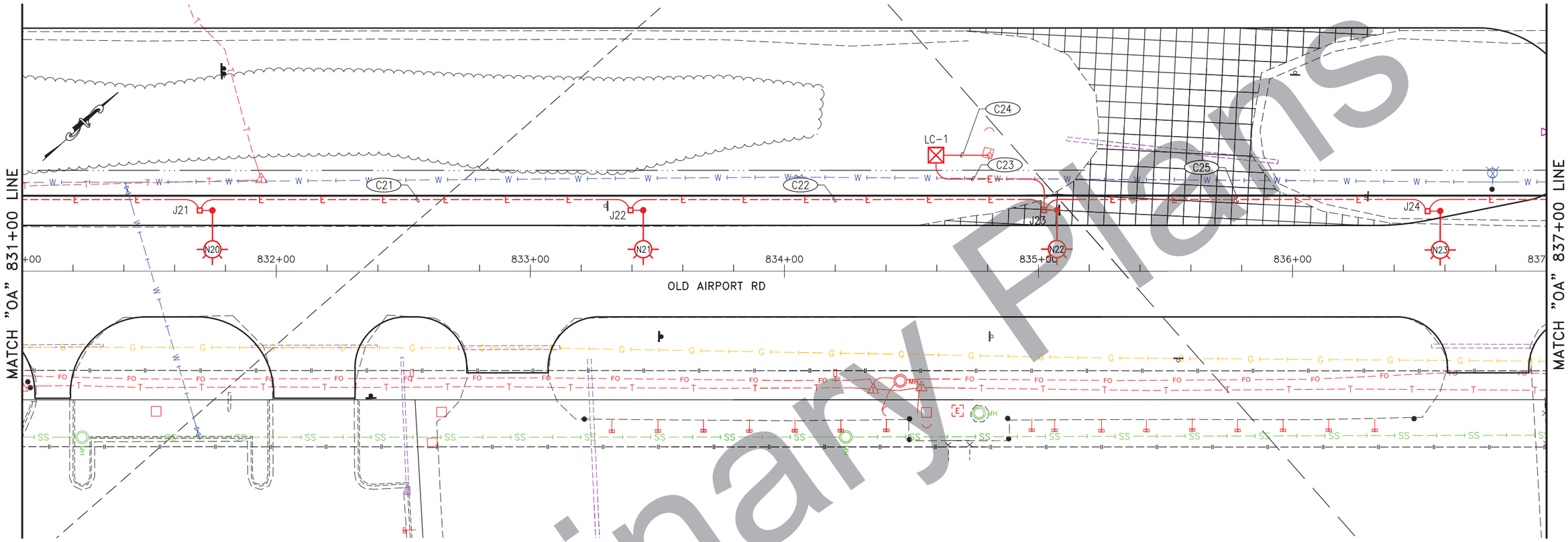
ILLUMINATION PLAN
SHEET 5 OF 9

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: CO342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs – Phase 2\Edwg\61872-H-OA_Electrical-H48 Thu, Nov/05/20 12:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H49	H56



ELECTRICAL SHEET NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

(2) PROVIDE TYPE 1A LOAD CENTER.

(2) NEW UNDERGROUND SERVICE TO LOAD CENTER. COORDINATE WITH GVEA.

Preliminary Plans

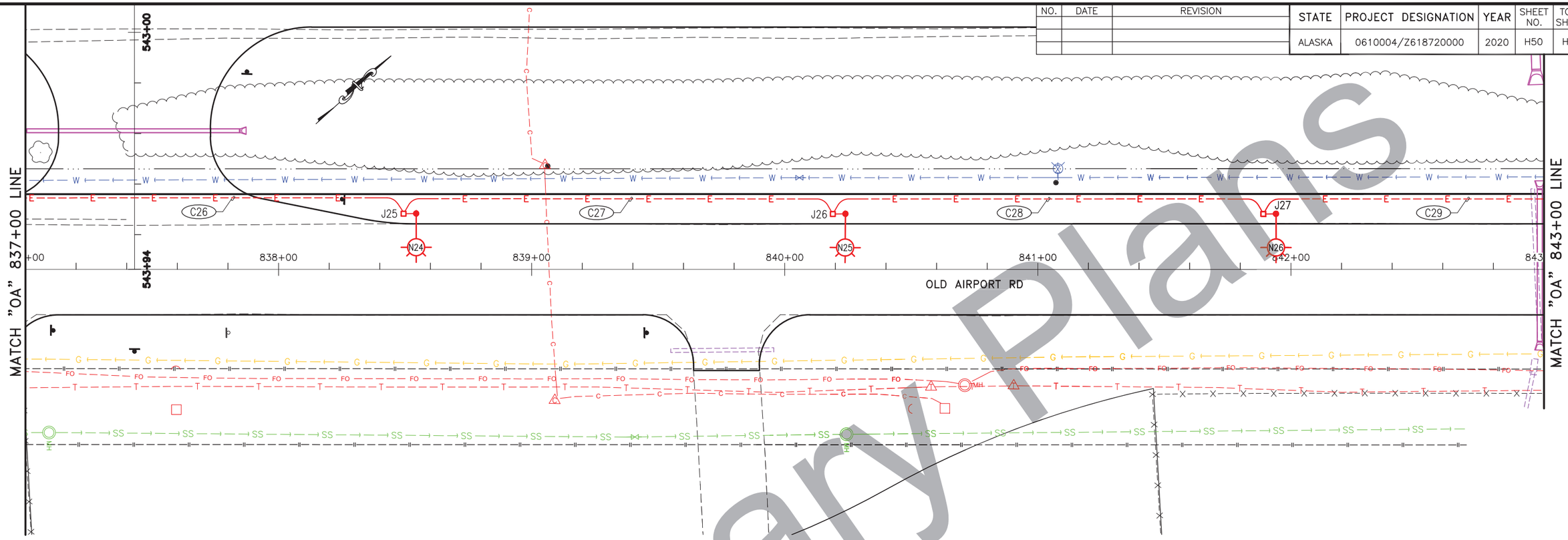
ILLUMINATION PLAN
SHEET 6 OF 9

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: CO342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs – Phase 2\Edwg\61872-H-OA_Electrical-H49 Thu, Nov/05/20 12:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H50	H56



ELECTRICAL SHEET NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

Preliminary Plans

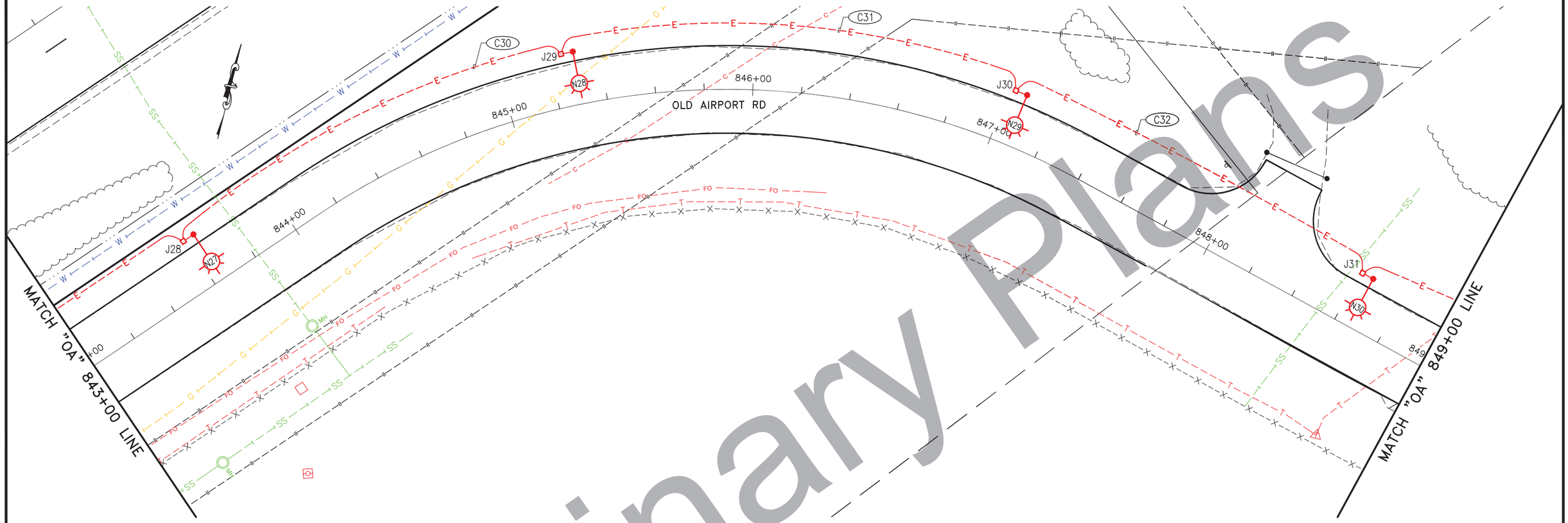
ILLUMINATION PLAN
SHEET 7 OF 9

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: CO342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs – Phase 2\Edwg\61872-H-OA_Electrical-H50 Thu, Nov/05/20 12:45pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H51	H56



Preliminary Plans

ELECTRICAL SHEET NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

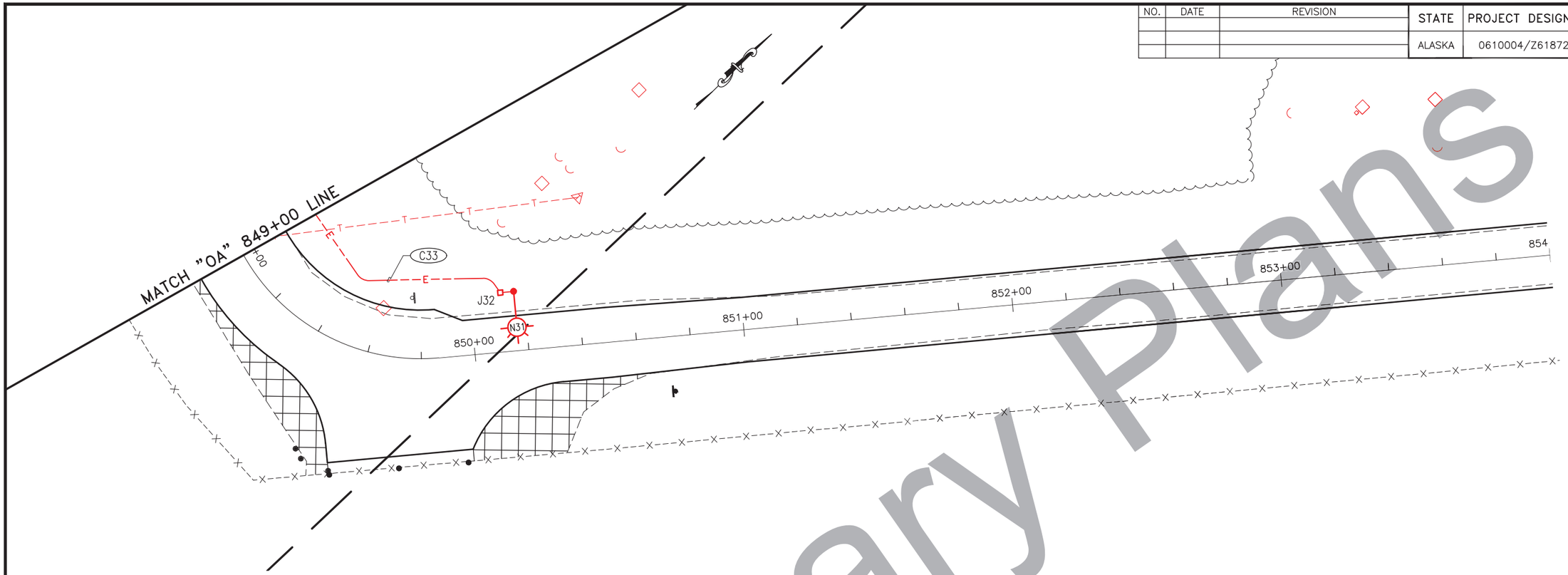
ILLUMINATION PLAN
SHEET 8 OF 9

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: CO342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs – Phase 2\Edwg\61872-H-OA_Electrical-H51 Thu, Nov/05/20 12:46pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H52	H56



ELECTRICAL SHEET NOTES

1. REFER TO THE SCHEDULES ON SHEETS H53–H54 FOR ADDITIONAL INFORMATION.

Preliminary Plans

ILLUMINATION PLAN
SHEET 9 OF 9

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: C0342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs - Phase 2\Edwg\61872-H-OA_Electrical-H52 Thu, Nov/05/20 12:46pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H53	H56

ELECTROLIER SCHEDULE

POLE	STATION	OFFSET	SHEET	BASE TYPE	FRANGIBLE COUPLINGS	MOUNTING HEIGHT	MAST ARM LENGTH (FT)	WATTAGE	FOUNDATION ELEVATION	REMARKS
E50	801+39.71	12.19 LT	H35	CIDH	NO	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E51	802+69.15	44.93 RT	H35	CIDH	NO	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E52	804+88.88	44.21 RT	H35	CIDH	NO	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E53	806+62.44	43.62 RT	H35	CIDH	NO	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E54	808+31.97	43.62 RT	H36	CIDH	NO	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E54	814+48.77	18.08 LT	H37	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E55	816+50.41	17.88 LT	H37	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E56	819+15.89	8.40 LT	H38	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E57	821+00.22	18.54 RT	H38	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E58	822+98.75	19.20 RT	H38	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E59	825+03.67	6.72 LT	H39	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E60	826+94.66	23.03 LT	H39	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E61	828+94.63	23.38 LT	H39	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E62	830+95.00	23.12 LT	H39	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E63	832+94.96	23.21 LT	H40	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E64	834+94.99	31.52 LT	H40	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E65	836+04.81	31.59 LT	H40	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E66	837+85.04	23.34 LT	H41	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E67	839+84.77	23.44 LT	H41	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E68	841+85.59	24.08 LT	H41	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E69	843+78.75	31.68 LT	H42	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E70	845+43.02	86.33 LT	H42	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E71	847+07.30	112.98 LT	H42	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
E72	849+69.91	16.02 LT	H43	CIDH	YES	40	UNKNOWN	150W HPS	UNKNOWN	EXISTING
N01	801+45.00	12.00 LT	H44	CIDH	YES	40	2.0	216W	TBD	NEW
N02	801+45.00	12.00 LT	H44	CIDH	YES	40	2.0	216W	TBD	NEW
N03	802+69.60	36.75 RT	H44	CIDH	YES	40	20.0	216W	TBD	NEW
N04	804+33.68	28.31 RT	H44	CIDH	YES	40	10.0	216W	TBD	NEW
N05	806+04.95	28.27 RT	H44	CIDH	YES	40	10.0	216W	TBD	NEW
N06	807+87.78	28.27 RT	H45	CIDH	YES	40	10.0	216W	TBD	NEW
N07	809+43.77	33.29 RT	H45	CIDH	YES	40	15	216W	TBD	NEW
N08	811+14.24	28.38 RT	H45	CIDH	YES	40	10.0	216W	TBD	NEW
N09	812+82.42	17.71 LT	H45	CIDH	YES	40	12.0	216W	TBD	NEW
N10	814+53.18	17.74 LT	H46	CIDH	YES	40	12.0	216W	TBD	NEW
N11	816+24.37	17.69 LT	H46	CIDH	YES	40	12.0	216W	TBD	NEW
N12	817+95.12	17.74 LT	H46	CIDH	YES	40	12.0	216W	TBD	NEW
N13	819+69.86	1.95 RT	H47	CIDH	YES	40	12.0	216W	TBD	NEW
N14	821+27.00	13.57 RT	H47	CIDH	YES	40	17.0	216W	TBD	NEW
N15	823+04.07	18.49 RT	H47	CIDH	YES	40	12.0	216W	TBD	NEW
N16	824+84.51	1.51 LT	H47	CIDH	YES	40	10.0	216W	TBD	NEW
N17	826+70.23	23.54 LT	H48	CIDH	YES	40	12.0	216W	TBD	NEW
N18	828+35.09	23.50 LT	H48	CIDH	YES	40	12.0	216W	TBD	NEW
N19	830+04.97	23.41 LT	H48	CIDH	YES	40	12.0	216W	TBD	NEW
N20	831+74.90	23.36 LT	H49	CIDH	YES	40	12.0	216W	TBD	NEW
N21	833+44.47	23.40 LT	H49	CIDH	YES	40	12.0	216W	TBD	NEW
N22	835+07.28	23.46 LT	H49	CIDH	YES	40	12.0	216W	TBD	NEW
N23	836+58.13	23.15 LT	H49	CIDH	YES	40	12.0	216W	TBD	NEW
N24	838+54.42	21.52 LT	H50	CIDH	YES	40	10.0	216W	TBD	NEW
N25	840+23.98	21.40 LT	H50	CIDH	YES	40	10.0	216W	TBD	NEW
N26	841+94.11	21.42 LT	H50	CIDH	YES	40	10.0	216W	TBD	NEW
N27	843+60.09	25.58 LT	H51	CIDH	YES	40	10.0	216W	TBD	NEW
N28	845+05.50	71.45 LT	H51	CIDH	YES	40	10.0	216W	TBD	NEW
N29	846+51.58	108.75 LT	H51	CIDH	YES	40	10.0	216W	TBD	NEW
N30	849+23.96	78.41 LT	H51	CIDH	YES	40	10.0	216W	TBD	NEW
N31	850+16.19	15.78 LT	H52	CIDH	YES	40	10.0	216W	TBD	NEW

NOTES

NOTE 1: PROVIDE PHOTOCELL RECEPTACLE ON LUMINAIRE AND A GE LIGHT GRID NODE IN EACH LUMINAIRE PHOTOCELL RECEPTACLE.

NOTE 2: MOUNTING HEIGHT REFERS TO THE HEIGHT OF THE LUMINAIRE ABOVE THE TRAVELED WAY. ADJUST EACH ELECTROLIER'S POLE SHAFT LENGTH TO PROVIDE THIS HEIGHT WHENEVER SLOPE AND/OR OFFSET VARIES.

NOTE 3: QUOTED WATTAGE OF THE LED LUMINAIRES ARE THE ACTUAL ELECTRICAL WATTAGE AS PROVIDED BY THE MANUFACTURER. PERFORMANCE WISE, THESE LUMINAIRES ARE NOMINALLY EQUIVALENT IN FUNCTIONAL PERFORMANCE TO 250W HPS LUMINAIRES.

CONDUIT AND WIRE SCHEDULE

FEEDER	SHEET	FROM	TO	CONDUIT SIZE	WIRE 3C#8	REMARKS
C01	H44	J01	J02	2 INCH	1	
C02	H44	J02	J03	2 INCH	1	
C03	H44	J03	J04	2 INCH	1	
C04	H44	J02	J05	2 INCH	1	
C05	H45	J05	J06	2 INCH	1	
C06	H45	J07	J06	2 INCH	1	
C07	H45	J07	J08	2 INCH	1	
C08	H45	J08	J09	2 INCH	1	
C09	H45	J09	J10	2 INCH	1	
C10	H46	J10	J11	2 INCH	1	
C11	H46	J11	J12	2 INCH	1	
C12	H46	J12	J13	2 INCH	1	
C13	H46	J13	J14	2 INCH	1	
C14	H47	J14	J15	2 INCH	1	
C15	H47	J15	J16	2 INCH	1	
C16	H47	J16	J17	2 INCH	1	
C17	H48	J17	J18	2 INCH	1	
C18	H48	J18	J19	2 INCH	1	
C19	H48	J19	J20	2 INCH	1	
C20	H48	J20	J21	2 INCH	1	
C21	H49	J21	J22	2 INCH	1	
C22	H49	J22	J23	2 INCH	1	
C23	H49	LC-1	J23	2 INCH	1	
C24	H49	GVEA	LC-1	2 INCH	1	
C25	H49	J23	J24	2 INCH	1	
C26	H50	J24	J25	2 INCH	1	
C27	H50	J25	J26	2 INCH	1	
C28	H50	J26	J27	2 INCH	1	
C29	H50	J27	J28	2 INCH	1	
C30	H51	J28	J29	2 INCH	1	
C31	H51	J29	J30	2 INCH	1	
C32	H51	J30	J31	2 INCH	1	
C33	H52	J31	J32	2 INCH	1	

JUNCTION BOX SCHEDULE

JBOX	STATION	OFFSET	SHEET	TYPE	REMARKS
J01	801+49.95	11.26 LT	H44	TYPE IA	
J02	801+47.57	43.08 RT	H44	TYPE IA	
J03	802+74.60	36.75 RT	H44	TYPE IA	
J04	804+38.68	28.31 RT	H44	TYPE IA	
J05	806+09.95	28.27 RT	H44	TYPE IA	
J06	807+92.78	28.27 RT	H45	TYPE IA	
J07	809+48.77	33.35 RT	H45	TYPE IA	
J08	811+19.24	28.38 RT	H45	TYPE IA	
J09	811+19.21	16.73 LT	H45	TYPE IA	
J10	812+77.42	17.71 LT	H45	TYPE IA	
J11	814+48.18	17.74 LT	H46	TYPE IA	
J12	816+19.37	17.69 LT	H46	TYPE IA	
J13	817+90.12	17.74 LT	H46	TYPE IA	
J14	819+64.93	1.14 RT	H47	TYPE IA	
J15	821+22.00	13.56 RT	H47	TYPE IA	
J16	822+99.07	18.49 RT	H47	TYPE IA	
J17	824+79.60	0.66 LT	H47	TYPE IA	
J18	826+65.23	23.53 LT	H48	TYPE IA	
J19	828+30.09	23.49 LT	H48	TYPE IA	
J20	829+99.97	23.41 LT	H48	TYPE IA	
J21	831+69.90	23.36 LT	H49	TYPE IA	
J22	833+39.47	23.39 LT	H49	TYPE IA	
J23	835+02.27	23.46 LT	H49	TYPE IA	
J24	836+53.13	23.10 LT	H49	TYPE IA	
J25	838+49.42	21.47 LT	H50	TYPE IA	
J26	840+18.98	21.35 LT	H50	TYPE IA	
J27	841+89.11	21.36 LT	H50	TYPE IA	
J28	843+55.53	24.82 LT	H51	TYPE IA	
J29	845+01.58	70.19 LT	H51	TYPE IA	
J30	846+46.61	108.20 LT	H51	TYPE IA	
J31	849+21.92	82.97 LT	H51	TYPE IA	
J32	850+11.19	15.76 LT	H52	TYPE IA	

Preliminary

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SCHEDULES – 1
SHEET 1 OF 2

PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: CO342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257-9100
X:\19806 DOTAIRPORTWEST\Dwgs – Phase 2\Edwg\61872 E-SCHD-H53 Thu, Nov/05/20 12:46pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H54	H56

LOAD CENTER "LC1" SUMMARY, TYPE 1A INSTALLATION

TOTAL CONNECTED LOAD: 6.1 KVA, 12.7 A @ 480V, 1-PH

LOAD CENTER LOCATION: OLD AIRPORT ROAD 834+60, 59.7 LT — POWER SOURCE LOCATION: GVEA

SERVICE: SINGLE PHASE, 3 WIRE, 240/480, 100A — METER SOCKET REQD: YES

LOAD	MAIN BREAKERS			CONTACTORS		
A	480 VOLT	2 POLE	100 AMPS	--- VOLTS	--- POLES	--- AMPS

TRANSFORMER: --- VOLT PRIMARY WITH --- VOLT SECONDARY --- KVA 60 HERTZ

P.E. CONTROL LOCATION: TOP OF LOAD CENTER

PANEL MAIN BREAKER: 480 VOLT, 2 POLE, 100 AMPS

	LOAD PANEL"A"	LOAD	BREAKER	
CKT #	DESCRIPTION	KVA	AMP	POLE
LC1-1	ELECTROLIERS - OLD AIRPORT ROAD	6.11	20	2
--	--	--	--	--
LC1-2	SPARE	-	20	2
--	--	--	--	--
LC1-3	SPARE	-	20	2
--	--	--	--	--
LC1-4	SPACE	--	--	--
--	--	--	--	--
LC1-5	SPACE	--	--	--
--	--	--	--	--
LC1-6	SPACE	--	--	--
--	--	--	--	--
LC1-7	SPACE	--	--	--
--	--	--	--	--
LC1-8	SPACE	--	--	--
--	--	--	--	--
LC1-9	SPACE	--	--	--
--	--	--	--	--

LUMINAIRE PERFORMANCE CRITERIA

ROADWAY	OLD AIRPORT ROAD
CHARACTERISTICS	
ROADWAY	2 LANE
LANE WIDTH (FT)	12
NUMBER OF LANES	2
PAVEMENT TYPE	R3
ROADWAY LIGHTING STANDARD	IESNA RP-8-14 (ROADWAY)
STREET CLASSIFICATION	LOCAL
PEDESTRIAN AREA CLASSIFICATION	LOW
IES FILE FOR ROADWAY LIGHTING	ITL88457 RSWX-A-HT-3ME-24L-30K7-UL-GY-N.IES
LUMINAIRE	
LAMP DESCRIPTION	CREE RSWX STREET LIGHT OR APPROVED EQUAL
LIGHT LOSS FACTOR	.85
WATTAGE	216
LIGHT DISTRIBUTION	TYPE 3 MEDIUM
POLE CHARACTERISTICS	
MOUNTING HEIGHT (FT)	40
LUMINAIRE SETBACK (TYP)	0
AVERAGE SPACING (FT)	150
OLD AIRPORT ILLUMINANCE CRITERIA	
AVERAGE LUMINANCE (fc)	1.2
MINIMUM ROADWAY LUMINANCE (fc)	0.4
AVERAGE UNIFORMITY RATIO (AVG/MIN)	3.0:1
MAX UNIFORMITY RATIO (MAX/MIN)	8.0:1

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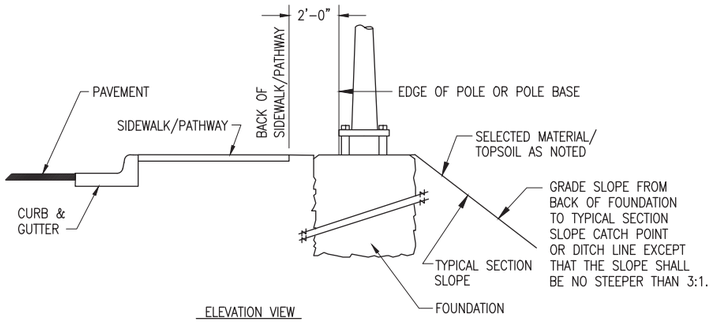
SCHEDULES - 2
SHEET 2 OF 2

STATE OF ALASKA
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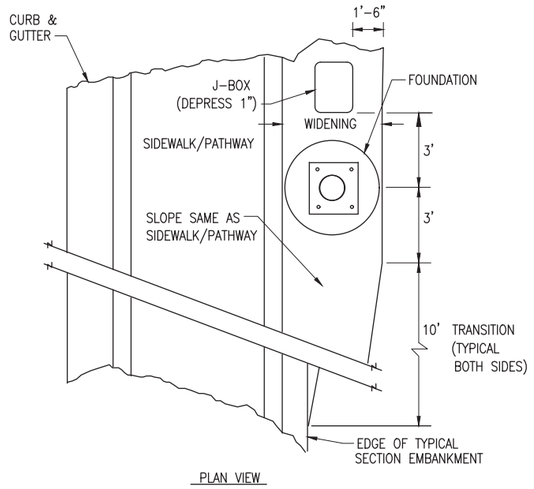
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H55	H56

LIGHT POLE WIDENING DETAIL "A"
(USE WHEN POLE IS LOCATED BACK OF SIDEWALK/PATHWAY)



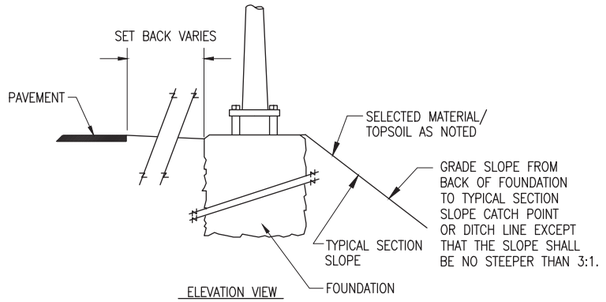
ELEVATION VIEW



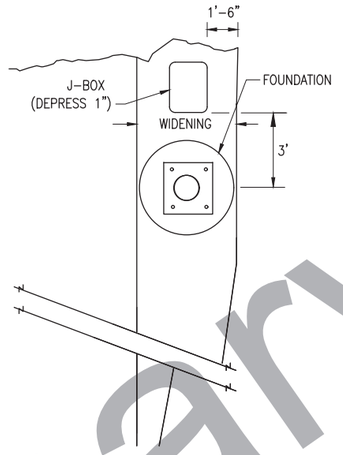
PLAN VIEW

1 H55 DETAIL – ELECTROLIER LOCATION AT SIDEWALK/PATHWAY

LIGHT POLE WIDENING DETAIL "A"
(USE WHEN POLE IS LOCATED BACK OF SIDEWALK/PATHWAY)

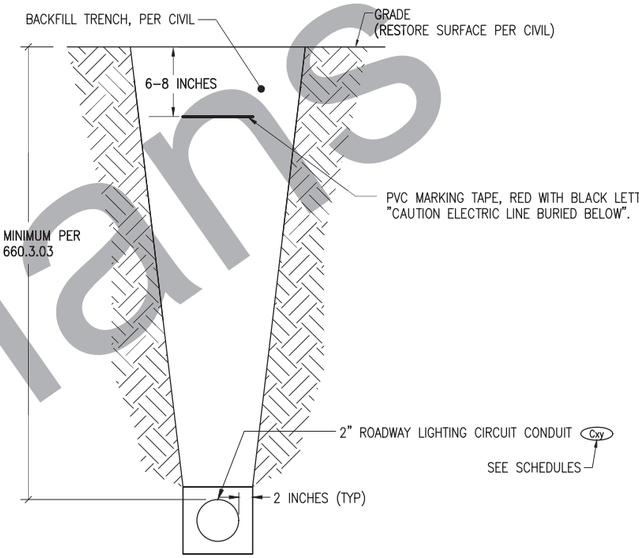


ELEVATION VIEW



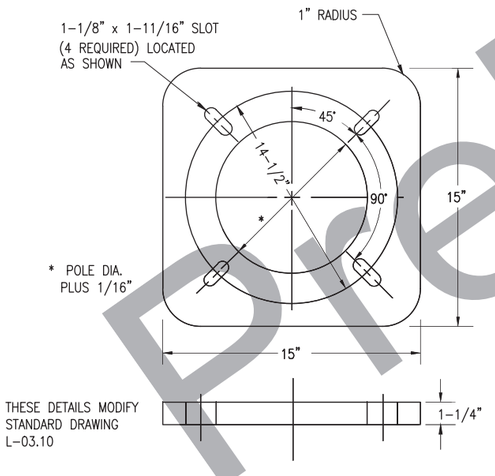
PLAN VIEW

2 H55 DETAIL – ELECTROLIER LOCATION W/O SIDEWALK/PATHWAY

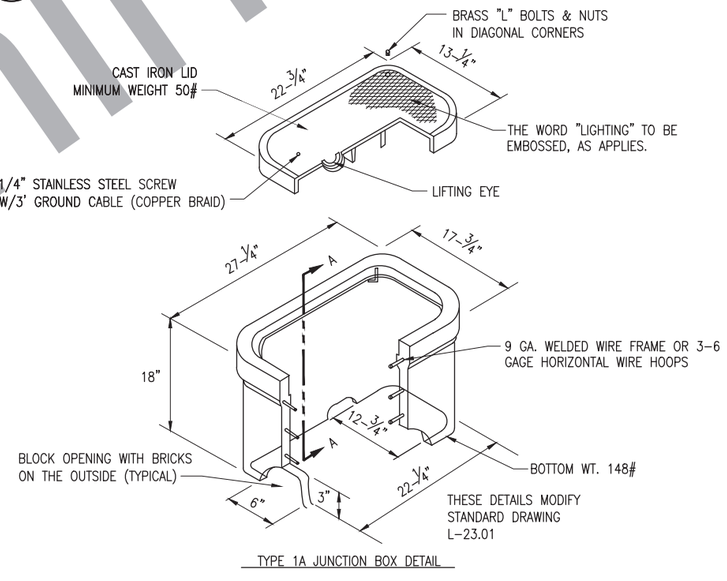


3 H55 DETAIL – CONDUIT TRENCH (TYP)
NONE

40' LIGHT POLE
BASE FLANGE DETAIL



4 H55 DETAIL – LIGHT POLE FLANGE DETAIL



TYPE 1A JUNCTION BOX DETAIL

5 H55 DETAIL – TYPE 1A J-BOX INSTALLATION

ELECTROLIER FOUNDATION DEPTH TABLE

POLE	ROADWAY	FG SLOPE	FOUNDATION DEPTH		
			TABLE	LUM ARM	USE
		x:1	FT	FT	FT
1	OLD AIRPORT RD				
2	OLD AIRPORT RD				
3	OLD AIRPORT RD				
4	OLD AIRPORT RD				
5	OLD AIRPORT RD				
6	OLD AIRPORT RD				
7	OLD AIRPORT RD				
8	OLD AIRPORT RD				
9	OLD AIRPORT RD				
10	OLD AIRPORT RD				
11	OLD AIRPORT RD				
12	OLD AIRPORT RD				
13	OLD AIRPORT RD				
20	OLD AIRPORT RD				
21	OLD AIRPORT RD				
22	OLD AIRPORT RD				
23	OLD AIRPORT RD				
24	OLD AIRPORT RD				
25	OLD AIRPORT RD				
26	OLD AIRPORT RD				
27	OLD AIRPORT RD				

NOTES:

1. GRADE IN DEPTH TABLE REFERS TO FILL SLOPES. IF FOUNDATION IS IN A CUT SLOPE ASSUME FLAT GRADE IN TABLE. TO DETERMINE GRADE IN FILL SLOPES, USE THE MOST SEVERE GRADE FOUND WITHIN AN 8 FOOT RADIUS OF THE CENTER OF THE FOUNDATION. SLOPES STEEPER THAN 1.5:1 REQUIRE ENGINEERED DEPTH CALCULATION.

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DETAILS – 1
SHEET 1 OF 2

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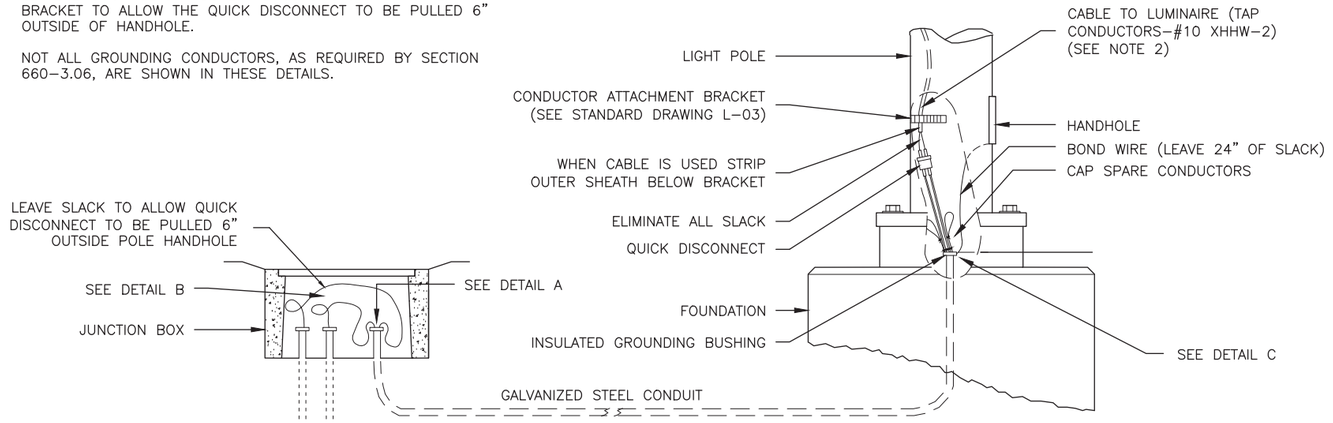
NO.	DATE	REVISION

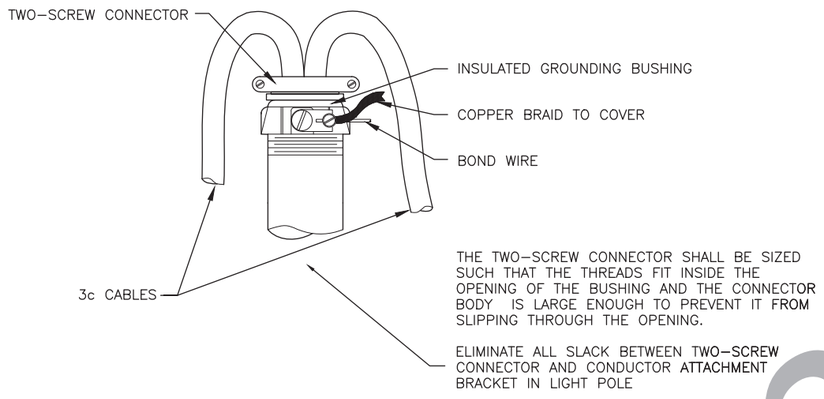
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	H56	H56

LIGHTING SYSTEM POLE AND J–BOX WIRING DETAILS

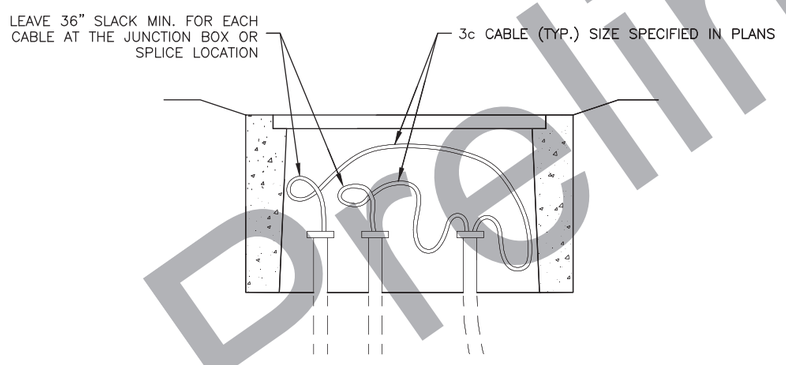
NOTES:

1. LABEL ALL CABLES AND CONDUCTORS IN POLE BASE AND J–BOX.
2. LEAVE ENOUGH SLACK ABOVE THE CONDUCTOR ATTACHMENT BRACKET TO ALLOW THE QUICK DISCONNECT TO BE PULLED 6" OUTSIDE OF HANDHOLE.
3. NOT ALL GROUNDING CONDUCTORS, AS REQUIRED BY SECTION 660–3.06, ARE SHOWN IN THESE DETAILS.

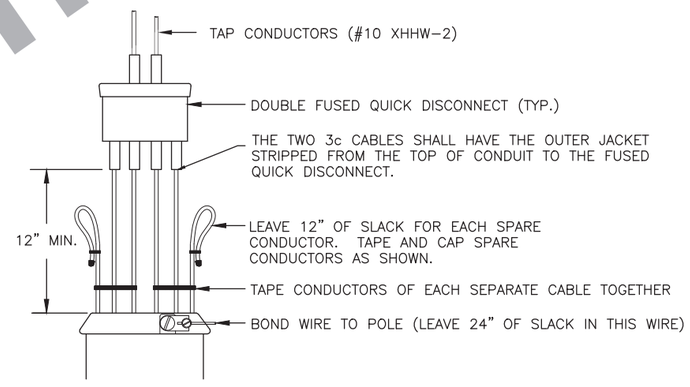




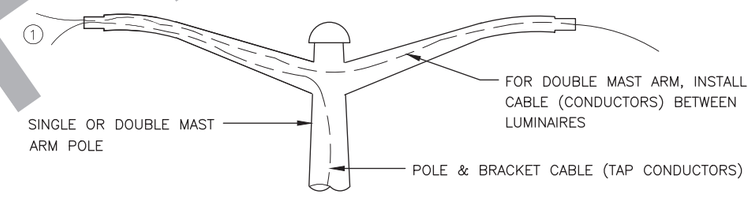
DETAIL A



DETAIL B



DETAIL C



(1) INSTALL 2"x1" REDUCING WASHER AND 1" CONNECTOR TO SECURE CONDUCTORS AT THE END OF THE MAST ARM

LIGHT STANDARD MAST ARM WIRING DETAIL

Preliminary Plans

1 / H56 DETAIL – LIGHTING SYSTEM POLE AND J–BOX WIRING

DETAILS – 2
SHEET 2 OF 2

STATE OF ALASKA
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NOV 2020
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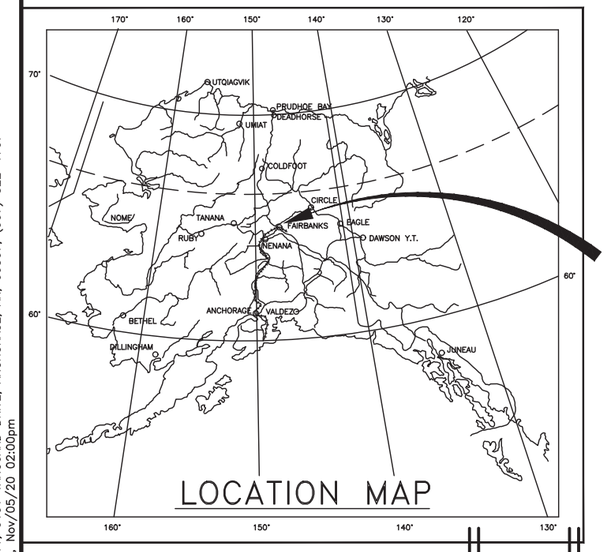
PLANS DEVELOPED BY: AMC ENGINEERS, INC., CERT. OF AUTHORIZATION NO.: CO342, 701 E. TUDOR ROAD, SUITE 250, ANCHORAGE, AK, 99503, (907) 257–9100
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0610004/Z618720000	2020	Q1	Q11

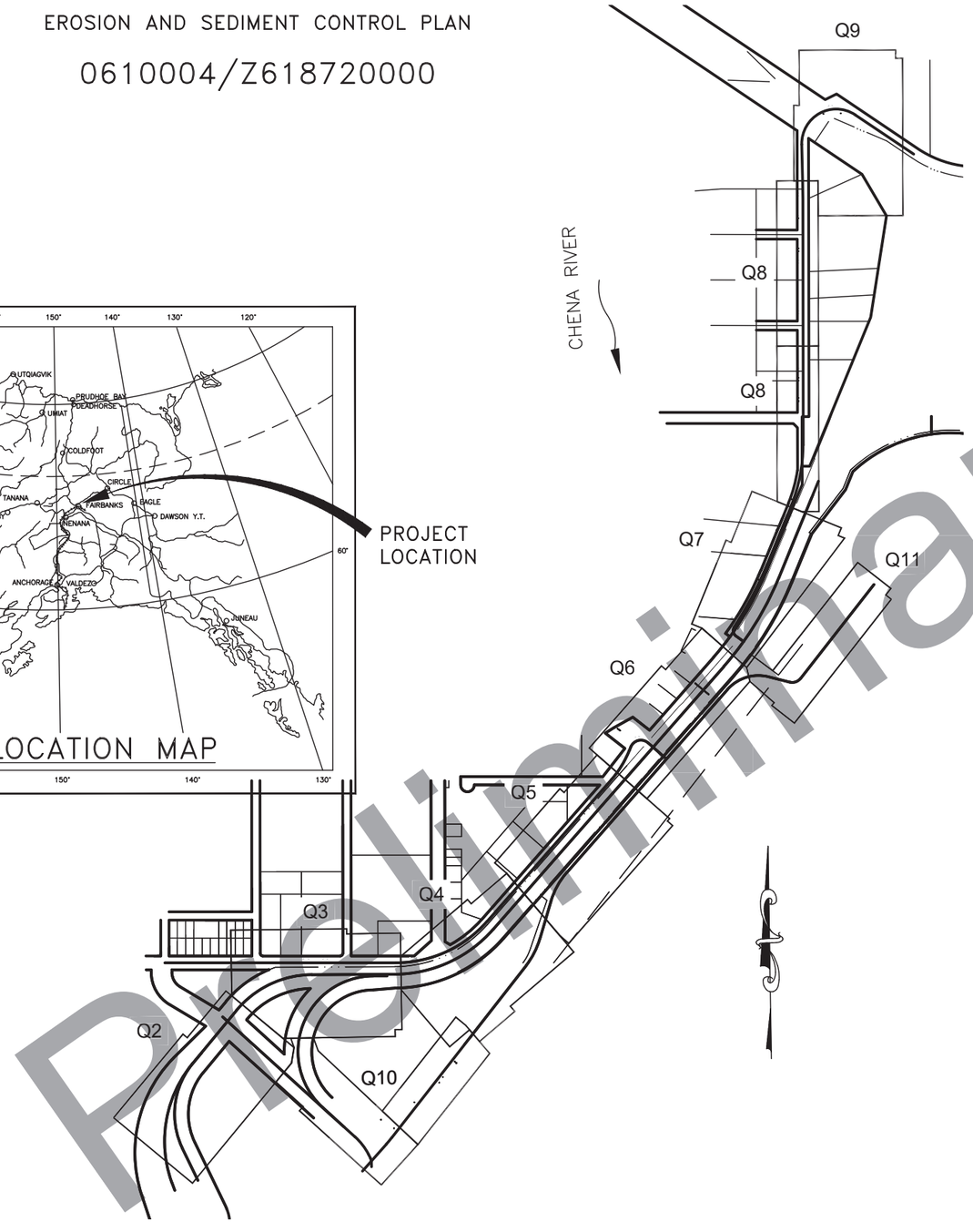
AIRPORT WAY WEST IMPROVEMENTS

EROSION AND SEDIMENT CONTROL PLAN

0610004/Z618720000



LOCATION MAP



ESCP NOTES:

GENERAL:

1. CONTRACTOR SHALL USE THIS EROSION AND SEDIMENT CONTROL PLAN TO DEVELOP A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). NO EARTHWORK WILL BE ALLOWED ON A SPECIFIC STAGE/PHASE OF THE PROJECT UNTIL THE SWPPP BEST MANAGEMENT PRACTICES (BMP) HAVE BEEN APPROVED AND IMPLEMENTED. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING A CONSTRUCTION SEQUENCE.
2. BMPS SHOWN ON THESE PLAN SHEETS ARE AS DESCRIBED IN THE ALASKA STORMWATER GUIDE OR THE DOT&PF SWPPP GUIDE.
3. MAINTAIN BMPS ON A DAILY BASIS INCLUDING, BUT NOT LIMITED TO, REMOVAL OF ACCUMULATED SOILS, CLEANING BMPS, AND REPLACEMENT OF DAMAGED BMPS
4. DO NOT MAINTAIN EQUIPMENT OR PERFORM FUELING OPERATIONS WITHIN 100 FEET OF A WATER BODY.
5. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH AN ADEC EXCAVATION DEWATERING PERMIT FOR ALL EXCAVATION DEWATERING WITHIN 1,500 FEET OF A DEC IDENTIFIED CONTAMINATED SITE CLASSIFIED AS "ACTIVE" OF "CLEAN UP COMPLETE WITH INSTITUTIONAL CONTROLS".
6. CONTACT THE ENGINEER WITH QUESTIONS/CONCERNS REGARDING ENVIRONMENTAL CONDITIONS OR PERMIT INFORMATION.
7. PROVIDE DUST CONTROL AS DIRECTED BY THE ENGINEER.
8. ALL DISTURBED GROUND CAPABLE OF SUPPORTING VEGETATION SHALL BE RE-VEGETATED FOR FINAL STABILIZATION.

PERIMETER CONTROL:

9. THE CONTRACTOR SHALL INSTALL PERIMETER CONTROL AS NECESSARY TO MINIMIZE OFFSITE SEDIMENT TRANSPORT AND TO PROTECT ADJACENT WETLANDS. PERIMETER CONTROL BMPS MAY INCLUDE SILT FENCE, STRAW WATTLES, FIBER ROLLS, AND/OR VEGETATIVE BUFFER AND SHOULD BE NOTED ON THE SWPPP SITE MAP. SUFFICIENT VEGETATIVE BUFFERS REQUIRE A WIDTH OF AT LEAST 25 FT. INADEQUATE VEGETATIVE BUFFERS WILL HAVE ALTERNATIVE PERIMETER CONTROL BMPS INSTALLED.
10. INLET/OUTLET PROTECTION BMPS SHALL BE INSTALLED FOR STORM DRAIN/CULVERT PROTECTION AND NOTED ON THE SWPPP SITE MAP.

STOCKPILE PROTECTION AND STAGING AREAS:

11. THE CONTRACTOR IS RESPONSIBLE FOR STAGING AND STOCKPILE AREAS, ON OR OFF DOT&PF RIGHT OF WAY/ PROPERTY AND IMPLEMENTING APPROPRIATE BMPS TO CONTROL EROSION.
12. STOCKPILE AND STAGING LOCATIONS SHALL BE RECLAIMED TO THEIR ORIGINAL CONDITION AS APPROVED BY THE ENGINEER.

HAULING:

13. ENSURE LOADS ARE STABLE AND COVERED SO THAT NO MATERIAL ESCAPEMENT OCCURS DURING HAULING ACTIVITIES.
14. ENTRANCE/EXIT BMPS WILL BE ESTABLISHED WHERE VEHICLES WILL TRAVEL ONTO PAVED SECTIONS FROM A DISTURBED AREA.

TIMING OF BMP INSTALLATION:

15. BMPS SHALL BE INSTALLED PRIOR TO ANY GROUND DISTURBANCE.
16. MINIMIZE THE AREA AND TIME PERIOD ERODIBLE SOILS ARE EXPOSED TO STORM WATER. STABILIZE DISTURBED AREAS WITHIN 14 DAYS IF AREA IS NO LONGER BEING WORKED.
17. INTSALL BMPS FOR STOCKPILE(S) OF ERODIBLE MATERIAL TO PREVENT EROSION AND CONTROL OFFSITE SEDIMENTATION.

DITCH PROTECTION AND CONCENTRATED FLOWS:

18. IMPLEMENT STORM WATER DISCHARGE FLOW CONTROL BMPS (WATTLES, CHECK DAMS) WHERE STORM WATER DISCHARGE MAY CONCENTRATE, E.G. FLOW TOWARDS DITCHES, OR CULVERTS, AND WITHIN DITCHES ADJACENT TO ROADWAY.

Preliminary Plans

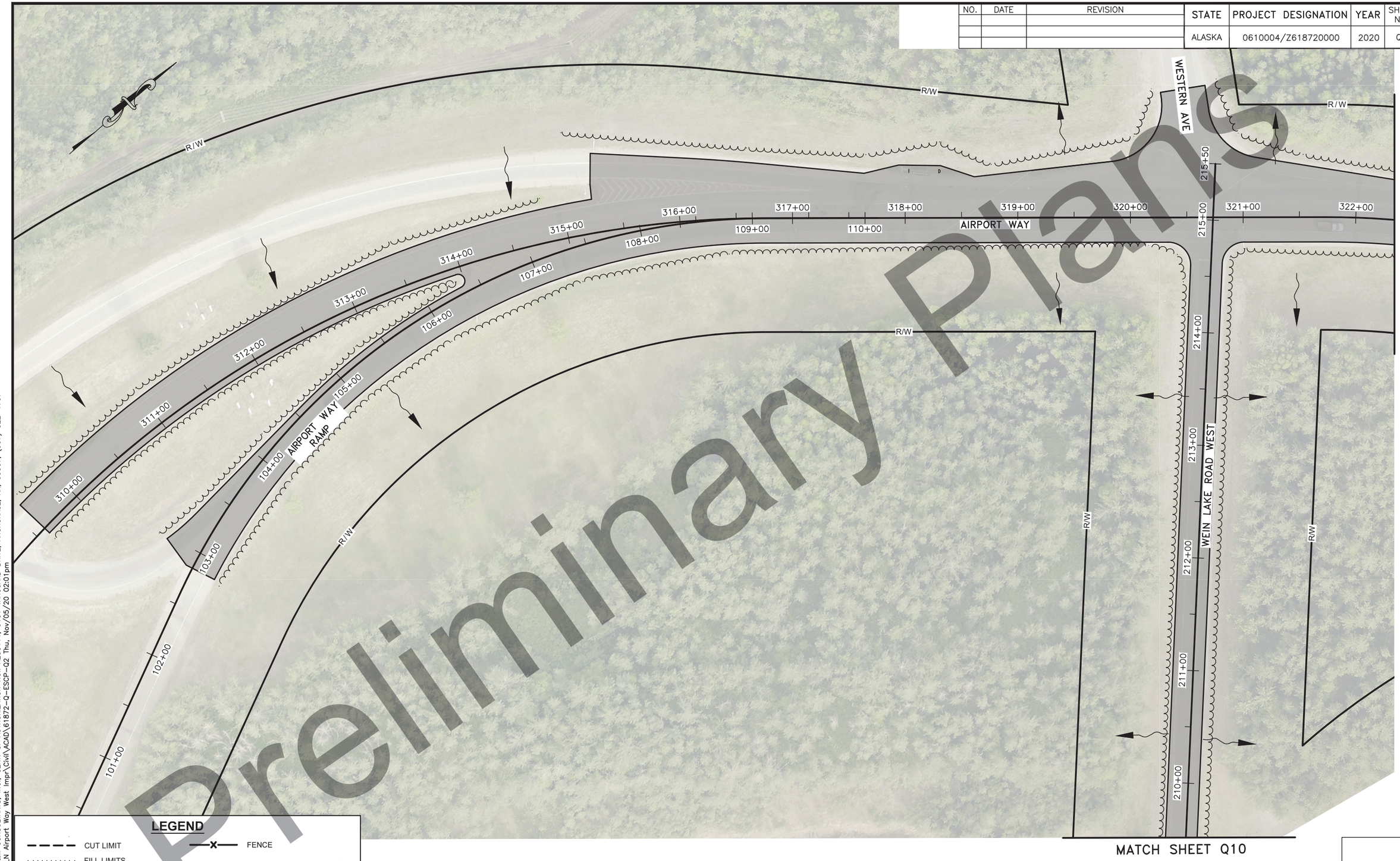
EROSION AND SEDIMENT CONTROL PLAN

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PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-Q-ESCP-Q1 Thu, Nov/05/20 02:00pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	Q2	Q11



Preliminary Plans

LEGEND

- CUT LIMIT
- FILL LIMITS
- FLOW DIRECTION
- AREA OF DISTURBANCE
- INLET PROTECTION
- CONTAMINATED SITE
- FENCE
- EXISTING PIPE TO REMAIN
- EXISTING PIPE TO BE REMOVED
- PROPOSED PIPES
- PERIMETER CONTROL (AS NEEDED)

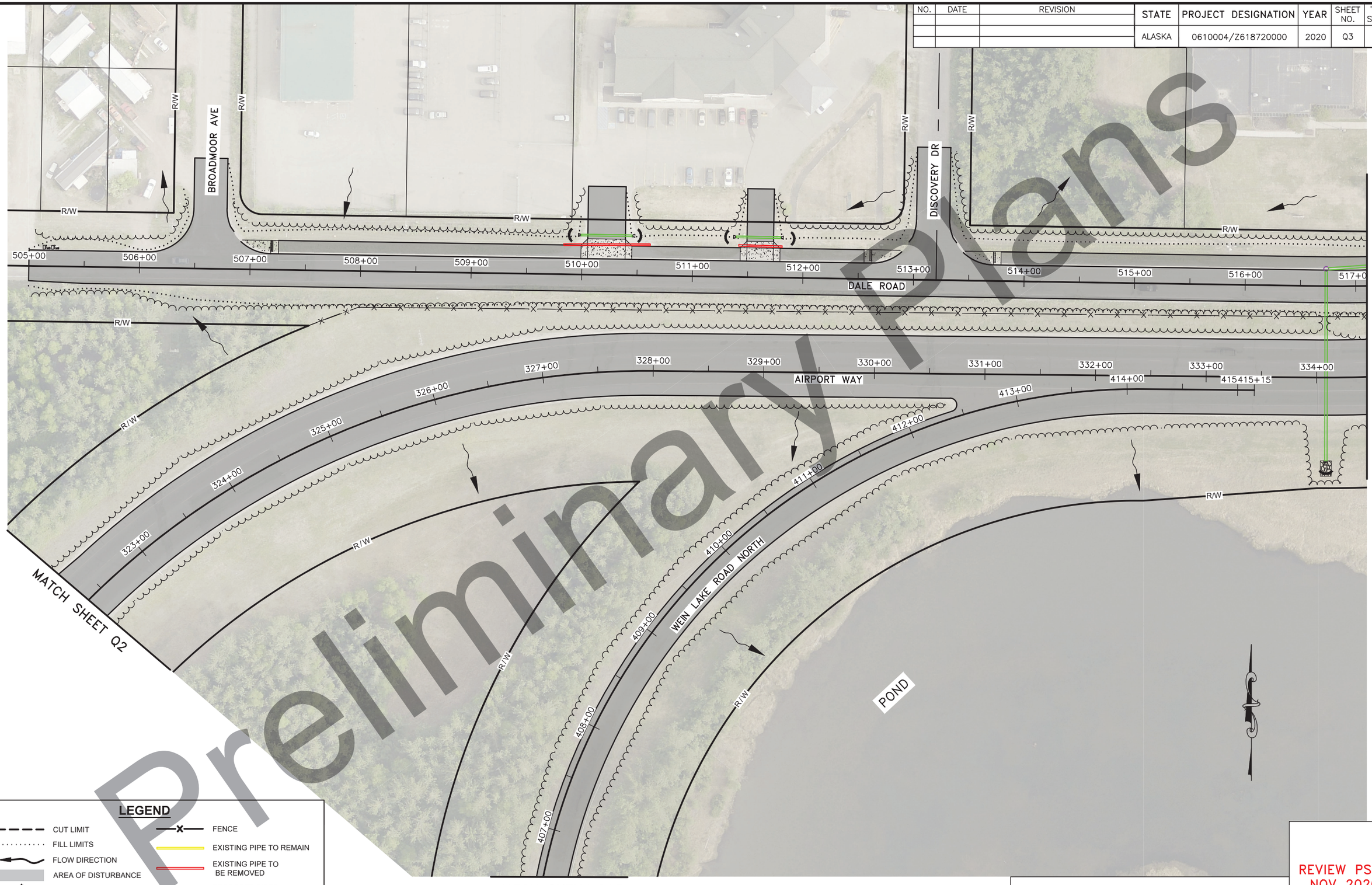
EROSION AND SEDIMENT CONTROL PLAN

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	Q3	Q11



Preliminary Plans

LEGEND

- CUT LIMIT
- FILL LIMITS
- FLOW DIRECTION
- AREA OF DISTURBANCE
- INLET PROTECTION
- CONTAMINATED SITE
- FENCE
- EXISTING PIPE TO REMAIN
- EXISTING PIPE TO BE REMOVED
- PROPOSED PIPES
- PERIMETER CONTROL (AS NEEDED)

EROSION AND SEDIMENT CONTROL PLAN

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	Q4	Q11

MATCH SHEET Q3

MATCH SHEET Q5

MATCH SHEET Q10

KING ROAD

DALE ROAD

AIRPORT WAY

OLD AIRPORT ROAD

DALE ROAD

R/W

518+00 519+00 520+00 521+00 522+00 523+00 524+00 525+00 526+00 527+00

335+00 336+00 337+00 338+00 339+00 340+00 341+00 342+00 343+00 344+00 345+00

813+00 814+00 815+00 816+00 817+00 818+00 819+00 820+00 821+00 822+00

HAZARD ID: 4314

HAZARD ID: 23131

LEGEND

- CUT LIMIT
- FILL LIMITS
- FLOW DIRECTION
- AREA OF DISTURBANCE
- INLET PROTECTION
- CONTAMINATED SITE
- FENCE
- EXISTING PIPE TO REMAIN
- EXISTING PIPE TO BE REMOVED
- PROPOSED PIPES
- PERIMETER CONTROL (AS NEEDED)

Preliminary Plans

EROSION AND SEDIMENT CONTROL PLAN

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	Q5	Q11

Preliminary Plans

MATCH SHEET Q4

MATCH SHEET Q6

ELLIOTT LANE

R/W

528+00 529+00 530+00 531+00 532+00 533+00 534+00 535+00 536+00 537+00 538+00

DALE ROAD

346+00 347+00 348+00 349+00 350+00 351+00 352+00 353+00 354+00 355+00 356+00

AIRPORT WAY

826+00 827+00 828+00 829+00 830+00 831+00 832+00 833+00 834+00

OLD AIRPORT ROAD

825+00 824+00 823+00

LEGEND

- CUT LIMIT
- FILL LIMITS
- FLOW DIRECTION
- AREA OF DISTURBANCE
- INLET PROTECTION
- CONTAMINATED SITE
- FENCE
- EXISTING PIPE TO REMAIN
- EXISTING PIPE TO BE REMOVED
- PROPOSED PIPES
- PERIMETER CONTROL (AS NEEDED)

EROSION AND SEDIMENT CONTROL PLAN

REVIEW PS&E NOV 2020

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-Q-ESCP-Q5 Thu, Nov/05/20 02:02pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	Q6	Q11

CHENA RIVER

R/W

DALE ROAD

539+00 540+00 541+00 542+00

PATHWAY

AIRPORT WAY

543+00

OLD AIRPORT ROAD

357+00 358+00 359+00 360+00 361+00 362+00 363+00 364+00 365+00 366+00 367+00 368+00

835+00 836+00 837+00 838+00 839+00 840+00 841+00 842+00 843+00 844+00 845+00

MATCH SHEET Q5

MATCH SHEET Q7

MATCH SHEET Q11

LEGEND

- CUT LIMIT
- FILL LIMITS
- FLOW DIRECTION
- AREA OF DISTURBANCE
- INLET PROTECTION
- CONTAMINATED SITE
- FENCE
- EXISTING PIPE TO REMAIN
- EXISTING PIPE TO BE REMOVED
- PROPOSED PIPES
- PERIMETER CONTROL (AS NEEDED)

Preliminary Plans

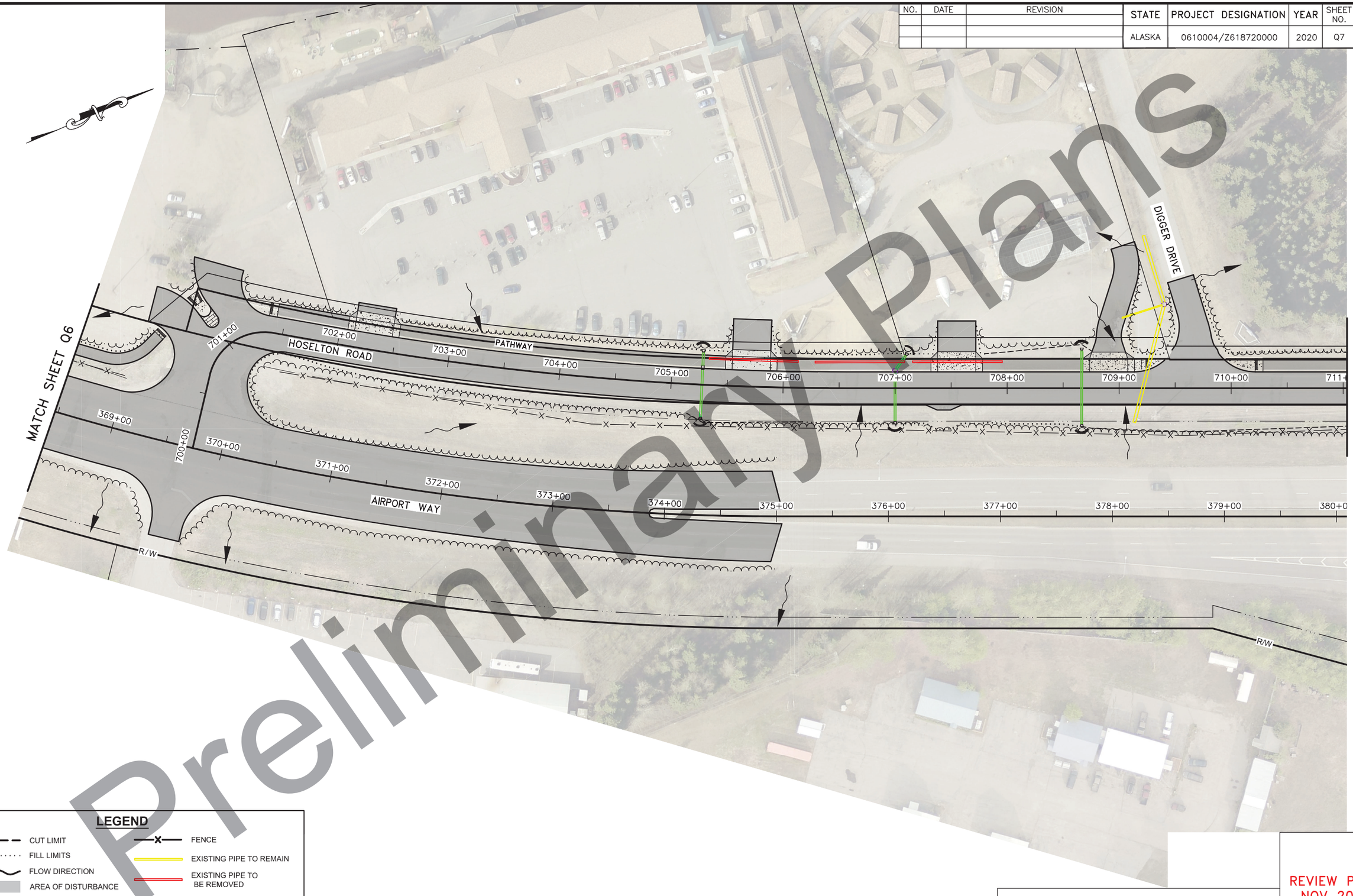
EROSION AND SEDIMENT CONTROL PLAN

REVIEW PS&E
NOV 2020

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-Q-ESCP-Q6 Thu, Nov/05/20 02:03pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	Q7	Q11



Preliminary Plans

LEGEND

- CUT LIMIT
- FILL LIMITS
- FLOW DIRECTION
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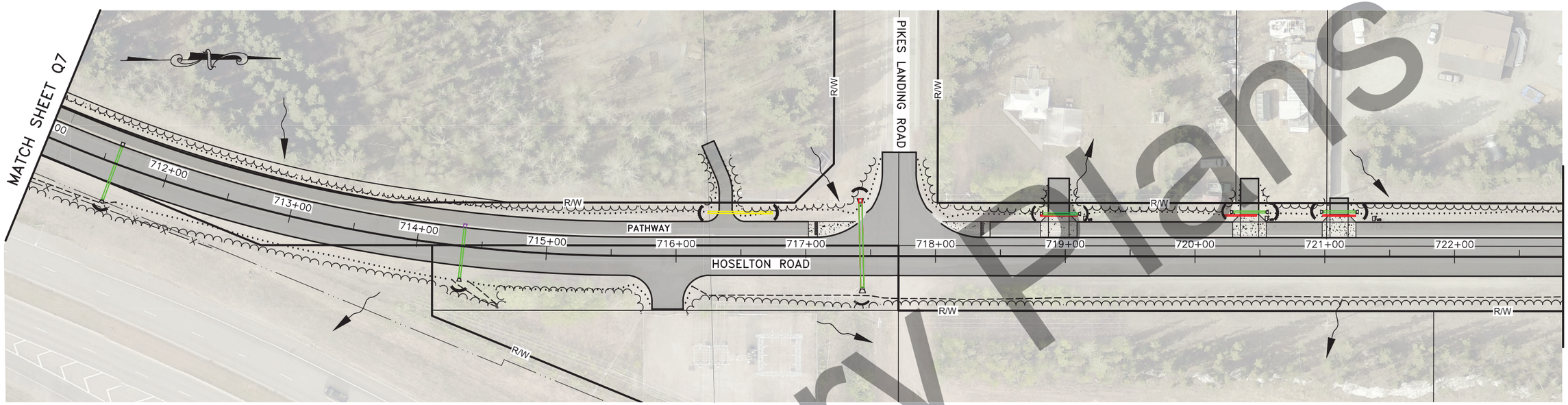
EROSION AND SEDIMENT CONTROL PLAN

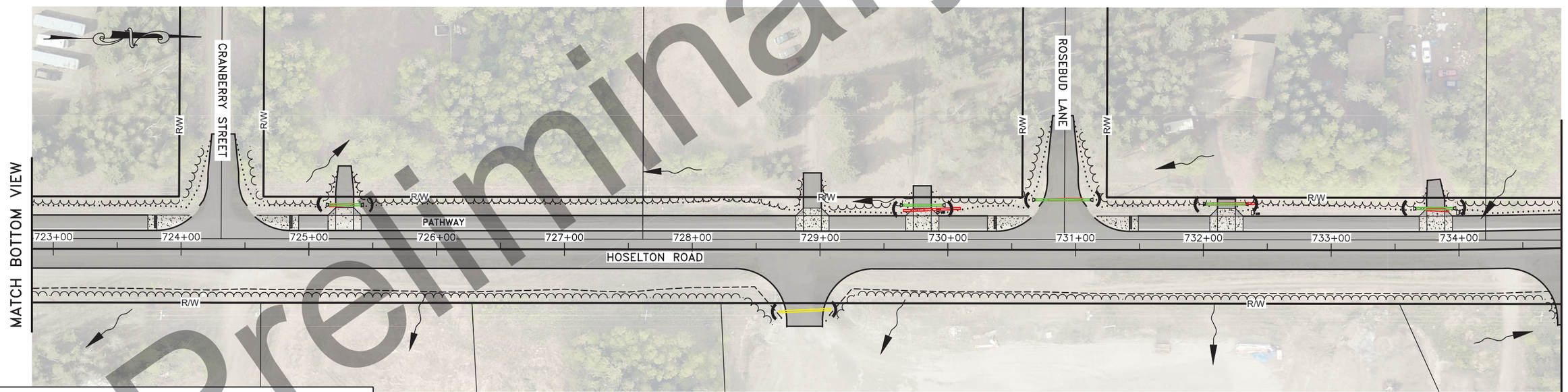
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	Q8	Q11





LEGEND

- CUT LIMIT
- FILL LIMITS
- FLOW DIRECTION
- AREA OF DISTURBANCE
- INLET PROTECTION
- CONTAMINATED SITE
- FENCE
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- PROPOSED PIPES
- PERIMETER CONTROL (AS NEEDED)

EROSION AND SEDIMENT CONTROL PLAN (8 OF 11)

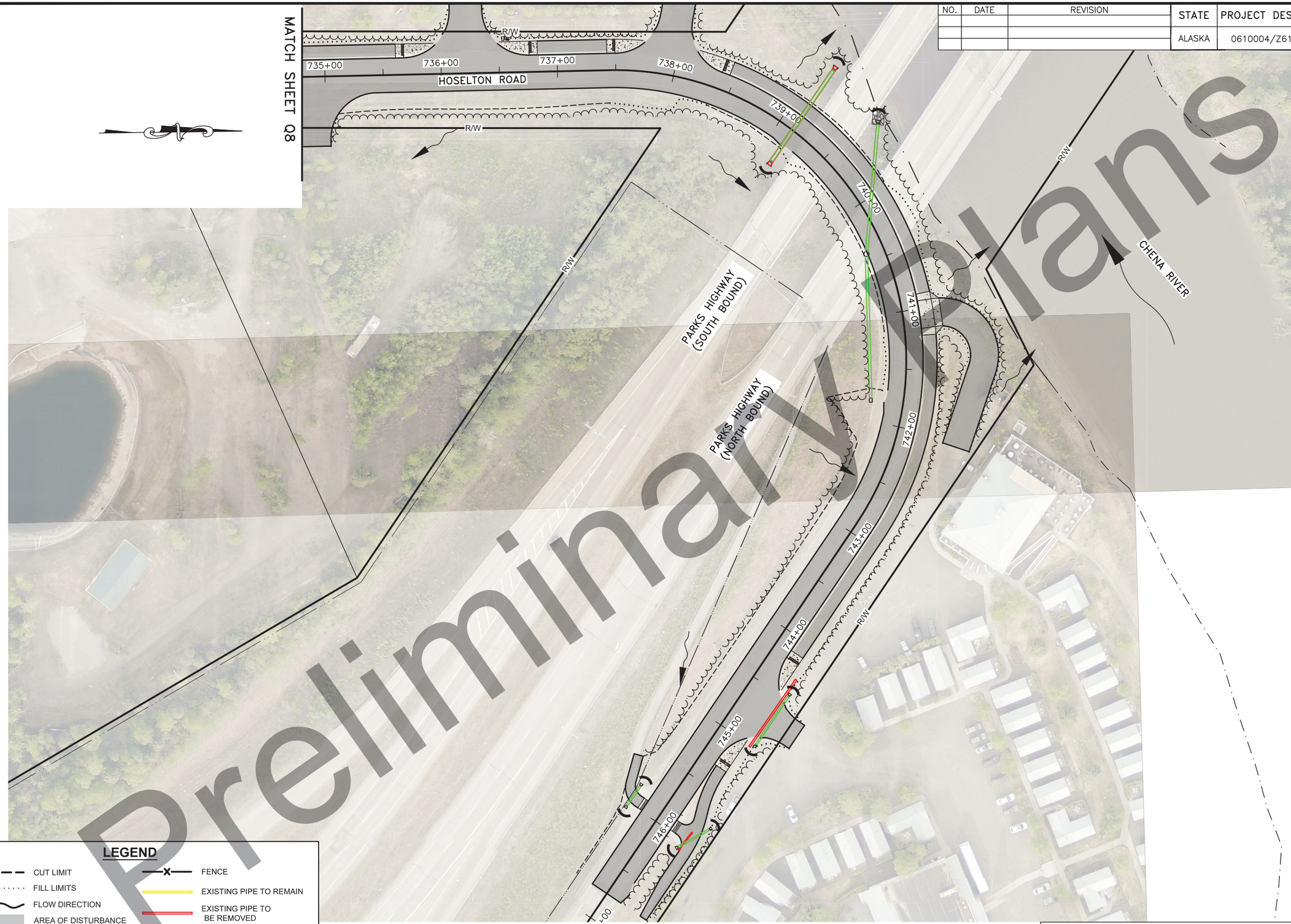
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Preliminary

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	Q9	Q11



Preliminary Plans

LEGEND

- CUT LIMIT
- FILL LIMITS
- FLOW DIRECTION
- AREA OF DISTURBANCE
- INLET PROTECTION
- CONTAMINATED SITE
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- EXISTING PIPE TO REMAIN
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EROSION AND SEDIMENT CONTROL PLAN

REVIEW PS&E
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	Q10	Q11

R/W

200+00

801+00

201+00

202+00

203+00

204+00

400+00205+00

401+00206+00

207+00

208+00

209+00

402+00

403+00

404+00

405+00

406+00

MATCH SHEET Q2

OLD AIRPORT ROAD

802+00

803+00

804+00

HAZARD ID: 24805

POND

R/W

MATCH BOTTOM VIEW

MATCH SHEET Q3

MATCH TOP VIEW

805+00

806+00

807+00

808+00

809+00

810+00

811+00

812+00

OLD AIRPORT ROAD

HAZARD ID: 24401

HAZARD ID: 25539

MATCH SHEET Q4

LEGEND

- CUT LIMIT
- FILL LIMITS
- FLOW DIRECTION
- AREA OF DISTURBANCE
- INLET PROTECTION
- CONTAMINATED SITE
- FENCE
- EXISTING PIPE TO REMAIN
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EROSION AND SEDIMENT CONTROL PLAN

REVIEW PS&E
NOV 2020

Preliminary Plans

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-Q-ESCP-Q10 Thu, Nov/05/20 02:04pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	Q11	Q11

Preliminary Plans



LEGEND

- CUT LIMIT
- FILL LIMITS
- FLOW DIRECTION
- AREA OF DISTURBANCE
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- CONTAMINATED SITE
- FENCE
- EXISTING PIPE TO REMAIN
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- PROPOSED PIPES
- PERIMETER CONTROL (AS NEEDED)

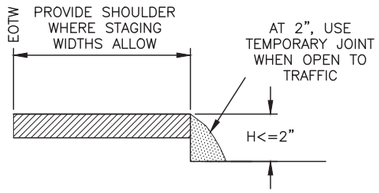
EROSION AND SEDIMENT CONTROL PLAN

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0610004/Z618720000	2020	T1	T2

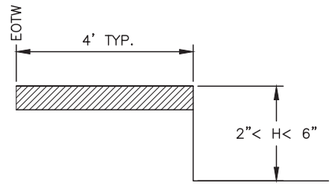
VERTICAL DROP–OFFS



CASE A

DROP–OFFS ≤2 INCHES
(PAVED SURFACES ONLY)

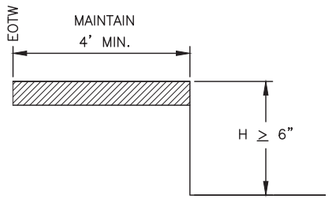
1. USE "UNEVEN LANES" (CW8–11) SIGNS FOR ALL DROP–OFFS IN BETWEEN TRAFFIC LANES.
2. LEAVE NO DROP–OFFS > 1.5" IN THE TRAFFIC LANE OR ACTIVE WHEEL TRACK.



CASE B

2"< DROP–OFFS < 6"
(ALL ROADWAY SURFACES)

1. PLACE CONES OR CANDLES FOR DROP–OFFS ≥ 4 FEET AND ≤ 30 FEET FROM THE EOTW.
2. USE DRUMS OR TYPE II BARRICADES FOR DROP–OFFS < 4 FEET FROM THE EOTW.



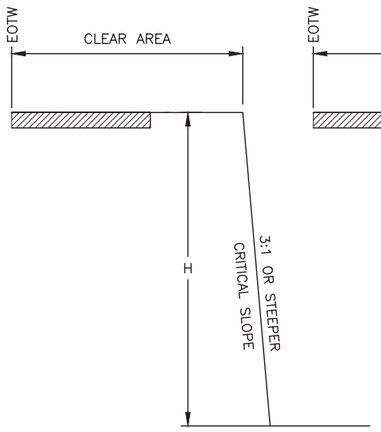
CASE C

DROP–OFFS ≥6"
(ALL ROADWAY SURFACES AND ROADSIDE SLOPES)

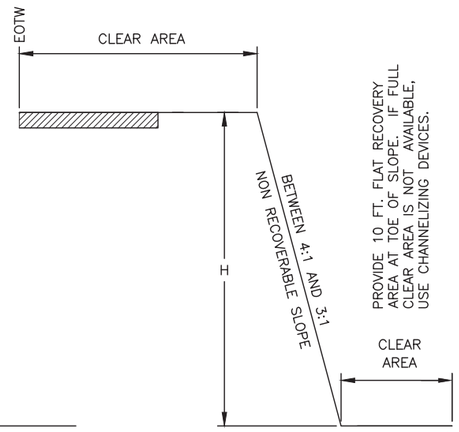
1. PLACE DRUMS OR TYPE II BARRICADES FOR DROP–OFFS ≤ 24" WITHIN THE CLEAR AREA.
2. PROVIDE PORTABLE CONCRETE BARRIER FOR DROP–OFFS >24" WITHIN 15 FEET OF THE EOTW. USE DRUMS OR TYPE II BARRICADES IF BEYOND 15 FEET.

FILL SLOPES

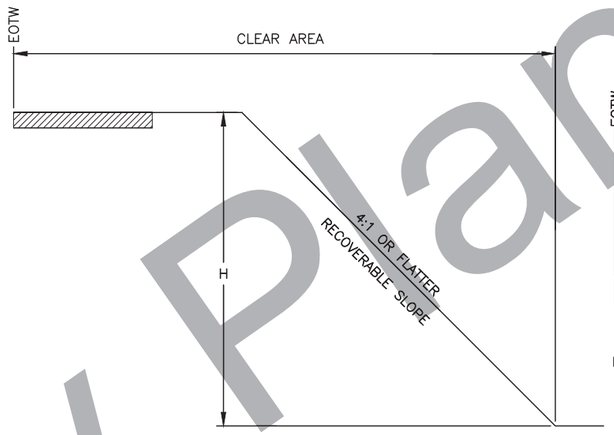
STEEPER THAN OR EQUAL TO 3:1



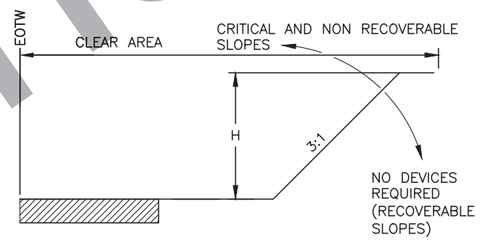
BETWEEN 4:1 AND 3:1



FLATTER THAN OR EQUAL TO 4:1



CUT SLOPES



EOTW = EDGE OF TRAVELED WAY

CLEAR AREA REQUIREMENTS

	LOW SPEED < = 35 MPH	INTERMEDIATE SPEED 40 MPH TO 45 MPH	HIGH SPEED ≥ = 50 MPH
RURAL	15'	24'	30'
URBAN	10' DITCH SECTIONS, OR 2' BEHIND CURB	15' DITCH CONDITIONS, OR 2' BEHIND CURB	15' DITCH CONDITIONS, OR 2' BEHIND CURB

CHANNELIZING DEVICE REQUIREMENTS FOR SLOPES 3:1 OR STEEPER WITHIN THE CLEAR AREA

	H <= 15'	H > 15'
< 2000 VPD LOW VOLUME	CANDLES OR CONES	TYPE II BARRICADES OR DRUMS
> 2000 VPD	TYPE II BARRICADE OR DRUMS	PORTABLE CONCRETE BARRIER OR TEMPORARY GUARDRAIL

TRAFFIC CONTROL NOTES:

1. USE THE EXISTING CROSS–SECTION (PRIOR TO CONSTRUCTION) AS A BASIS FOR DETERMINING WHEN CHANNELIZING DEVICES ARE NEEDED.
2. INSTALL CHANNELIZING DEVICES WHEN THE HORIZONTAL OR VERTICAL CURVATURE IS MADE MORE SEVERE.
3. INSTALL FLEXIBLE DELINEATORS WHEN ALL VEGETATION OVER 4 FEET HIGH IS CLEARED FROM FILL SLOPES THAT ARE 3:1 OR STEEPER IN THE CLEAR AREA.
4. USE PORTABLE CONCRETE BARRIER FOR WARRANTING CONDITIONS WHICH LAST LONGER THAN 3 DAYS. FOR CONDITIONS LASTING LESS THAN 3 DAYS, OTHER CHANNELIZING DEVICES MAY BE INSTALLED.
5. TERMINATE RUNS OF PORTABLE CONCRETE BARRIER USING THE FOLLOWING METHODS:
   - A) CONNECT TO A PORTABLE CRASH CUSHION, OR
   - B) PROVIDE A CONCRETE BARRIER WITH THRIE BEAM TRANSITION TO W–BEAM GUARDRAIL, TREATED WITH A PARALLEL TERMINAL (SEE SECTION 710).
   - C) FLARE THE ENDS OF THE PORTABLE CONCRETE BARRIER AWAY FROM THE ROADWAY AT A RATE OF 7:1 ON A COMPACTED SLOPE OF 6:1 OR FLATTER, OUTSIDE OF THE CLEAR AREA. INSTALL A SLOPING PORTABLE CONCRETE BARRIER END TREATMENT, OR
   - D) BURY IN THE BACKSLOPE.
6. TERMINATE THE RUNS OF TEMPORARY W–BEAM GUARDRAIL USING THE FOLLOWING METHODS:
   - A) PROVIDE A PARALLEL TERMINAL (SEE SECTION 710)
   - B) FLARE THE ENDS OF THE TEMPORARY GUARDRAIL AWAY FROM THE ROADWAY AT A RATE OF 6:1 ON A COMPACTED SLOPE OF 6:1 OR FLATTER OUTSIDE OF THE CLEAR AREA, TERMINATE WITH A STANDARD W–BEAM END SECTION, OR
   - C) BURY IN THE BACKSLOPE.

EQUIPMENT NOTES:

1. WHEN THERE IS ACTIVE, NONMOBILE CONSTRUCTION EQUIPMENT WITHIN THE CLEAR AREA, DELINEATE THE ROADSIDE WITH TRAFFIC CONES.
2. SEPARATE PROCEDURES ARE REQUIRED FOR MOBILE WORK ZONE OPERATIONS AND SHORT DURATION WORK OF LESS THAN 12 HOURS.

WINTER SHUTDOWN NOTES:

1. WHEN REQUIRED, USE CHANNELIZING DEVICES WHICH CAN BE MAINTAINED OVER WINTER.
2. NO CHANNELIZING DEVICES ARE REQUIRED IF:
   - A) CONSTRUCTION SLOPES ARE RECOVERABLE, AND
   - B) SLOPES ARE SMOOTH AND COMPACTED, AND
   - C) REQUIRED CLEAR AREA IS PROVIDED

Preliminary Plans

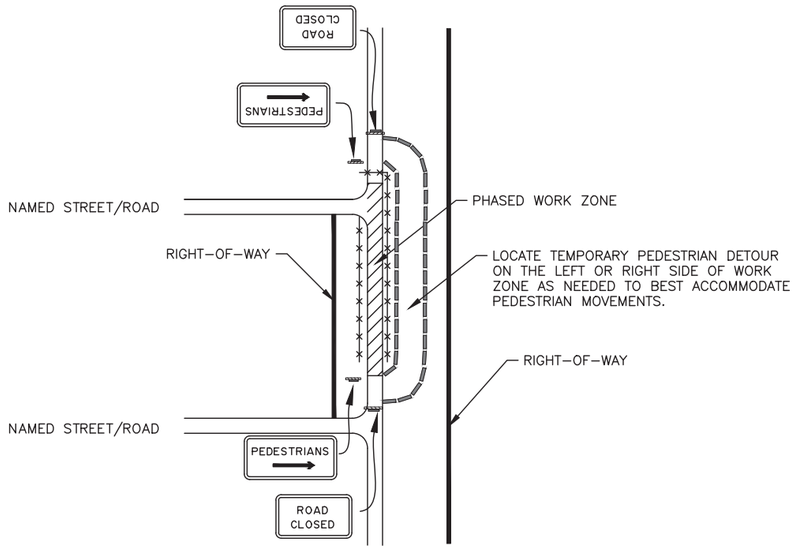
STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER
###

T1 – TRAFFIC CONTROL

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Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872_T_Traffic Control–T1 Thu, Nov/05/20 02:05pm

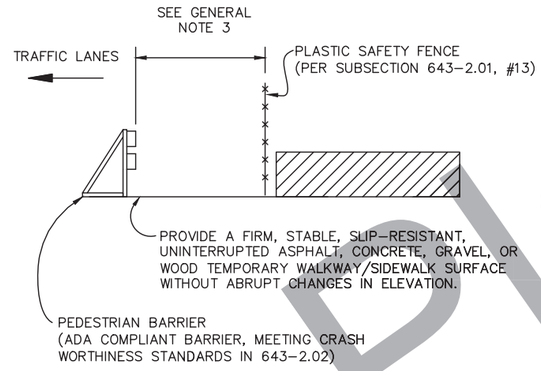
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	T2	T2



A. TEMPORARY PEDESTRIAN DETOUR AROUND PHASED WORK ZONE

DALE/HOSELTON ROAD



TEMPORARY PEDESTRIAN DETOUR TYPICAL SECTION

GENERAL NOTES:

1. THIS SHEET FOCUSES ON TRAFFIC CONTROL DEVICES FOR PEDESTRIANS.
2. PROVIDE PEDESTRIAN TRAFFIC CONTROL DEVICES WHEN SIDEWALKS, PATHWAYS, OR ROAD SHOULDERS ARE CLOSED TO PEDESTRIANS AND WHERE REQUIRED BY THE PLANS, SPECIFICATIONS, AND THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLAN. WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED IN A WORK ZONE, THE TEMPORARY FACILITIES SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE TEMPORARY PEDESTRIAN DETOUR TYPICAL SECTION. KEEP TEMPORARY PEDESTRIAN DETOURS FREE OF ANY OBSTRUCTIONS AND HAZARDS SUCH AS HOLES, DEBRIS, MUD, CONSTRUCTION EQUIPMENT, AND STORED MATERIALS.
3. PROVIDE A MINIMUM 5 FOOT (60 INCHES) WIDE TEMPORARY PEDESTRIAN DETOUR WHEN NO PEDESTRIAN FACILITY EXISTS. WHEN A PEDESTRIAN FACILITY EXISTED BEFORE CONSTRUCTION MATCH THE EXISTING FACILITY WIDTH OR 5 FOOT, WHICHEVER IS LESS. TRAFFIC CONTROL DEVICES AND OTHER CONSTRUCTION MATERIALS AND FEATURES SHOULD NOT INTRUDE INTO THE USABLE WIDTH OF THE SIDEWALK, TEMPORARY DETOUR, OR OTHER PEDESTRIAN FACILITY. WHEN IT IS NOT POSSIBLE TO MAINTAIN A MINIMUM WIDTH OF 60 INCHES THROUGHOUT THE ENTIRE LENGTH OF THE PEDESTRIAN DETOUR, A 60 X 60-INCH PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET TO ALLOW INDIVIDUALS IN WHEELCHAIRS TO PASS.
4. WHERE THE POSTED SPEED LIMIT EXCEEDS 45 MPH, SEPARATE PEDESTRIANS FROM ROADWAY EDGE OF PAVEMENT OR FACE OF CURB BY AT LEAST 5'. WHERE THAT IS NOT FEASIBLE, INSTALL PORTABLE CONCRETE BARRIER BETWEEN PEDESTRIANS AND THE ROAD.
5. WHEN PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY THE CURRENT TRAFFIC CONTROL PLAN ARE NOT IN PLACE OR ARE TEMPORARILY REMOVED, PROVIDE A WORKER TO DIRECT PEDESTRIANS THROUGH THE WORK AREA.
6. WHEN CHANNELIZATION IS USED TO DELINEATE A PEDESTRIAN DETOUR, A CONTINUOUS DETECTABLE EDGING SHOULD BE PROVIDED THROUGHOUT THE LENGTH OF THE FACILITY SUCH THAT PEDESTRIANS USING A LONG CANE CAN FOLLOW IT. THESE DETECTABLE EDGINGS SHOULD COMPLY WITH THE PROVISIONS OF THE MUTCD.
7. INSTALL PEDESTRIAN SIGNS ON AN ADA COMPLIANT (DETECTABLE) TYPE III BARRICADE.

LEGEND:

- LONGITUDINAL CHANNELIZING DEVICE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- WORK ZONE
- SAFETY FENCE

Preliminary Plans

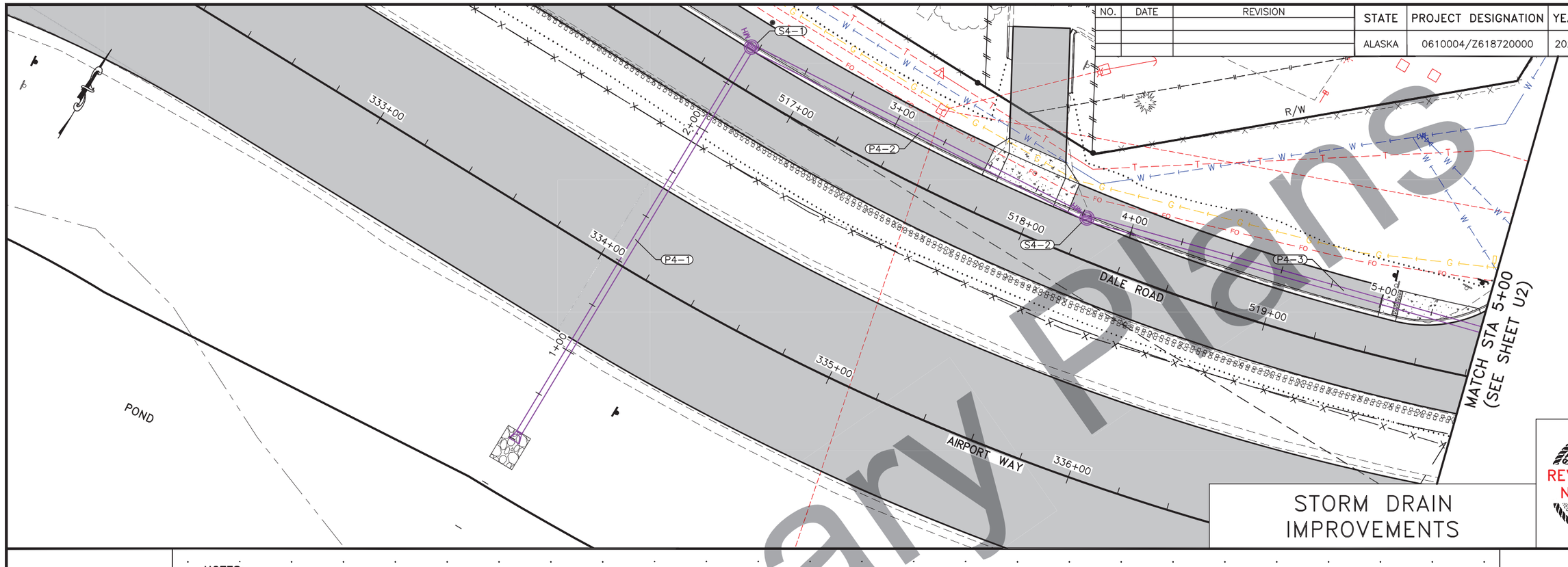
T2 – TRAFFIC CONTROL

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	U1	U12

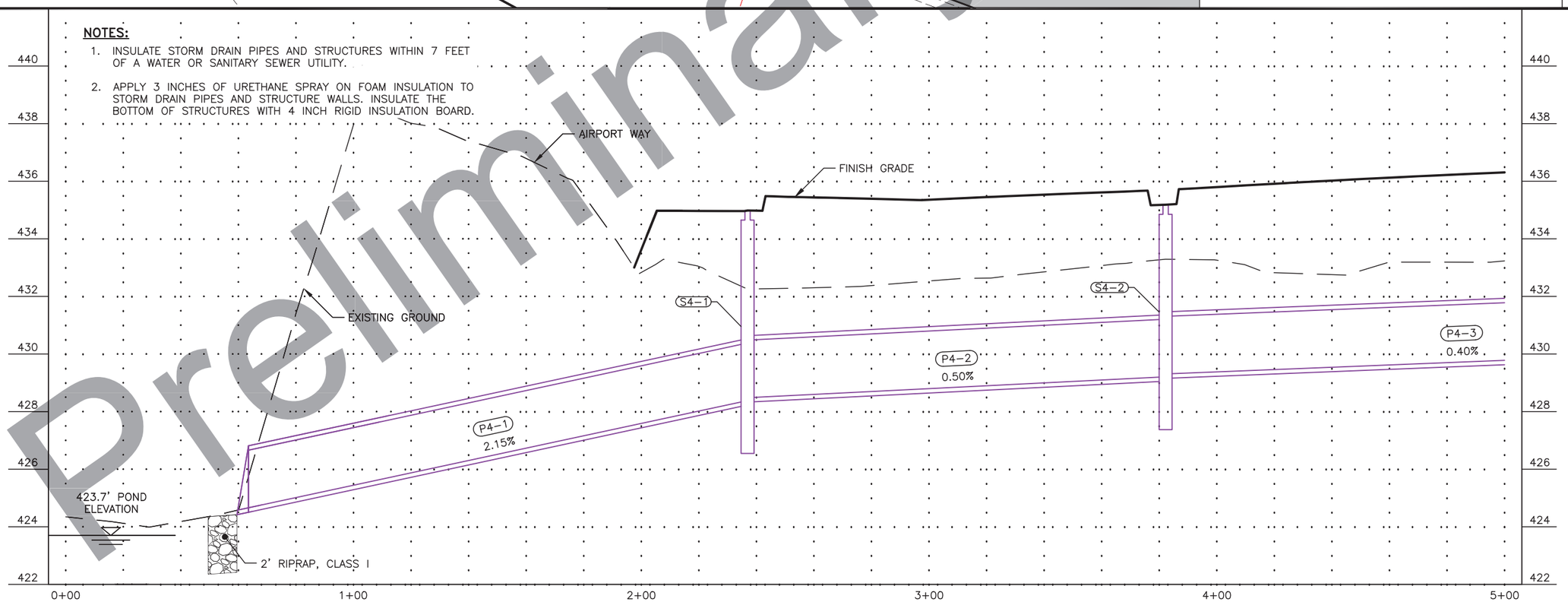


STORM DRAIN IMPROVEMENTS

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

NOTES:

1. INSULATE STORM DRAIN PIPES AND STRUCTURES WITHIN 7 FEET OF A WATER OR SANITARY SEWER UTILITY.
2. APPLY 3 INCHES OF URETHANE SPRAY ON FOAM INSULATION TO STORM DRAIN PIPES AND STRUCTURE WALLS. INSULATE THE BOTTOM OF STRUCTURES WITH 4 INCH RIGID INSULATION BOARD.

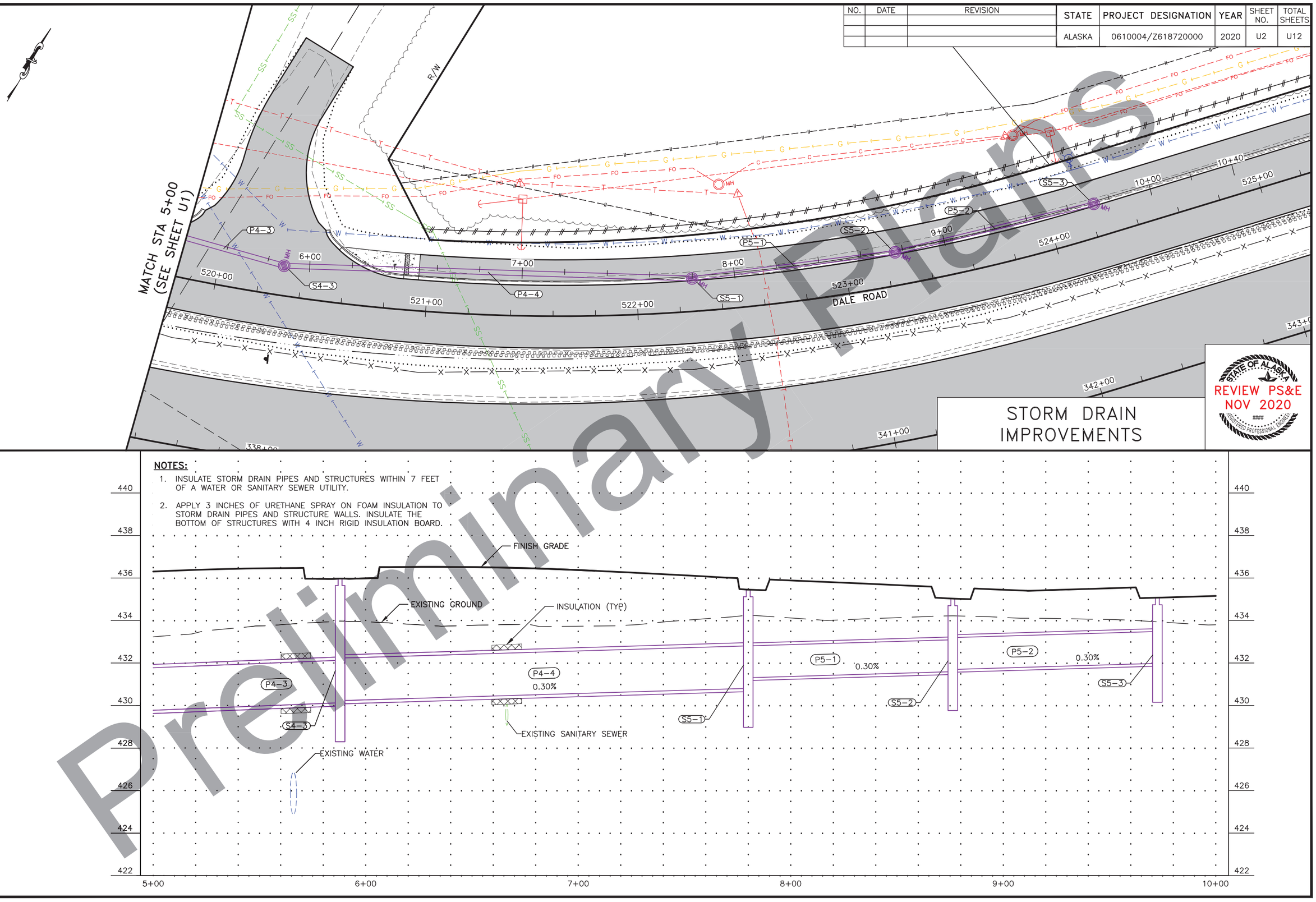


Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	U2	U12



STORM DRAIN IMPROVEMENTS

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

NOTES:

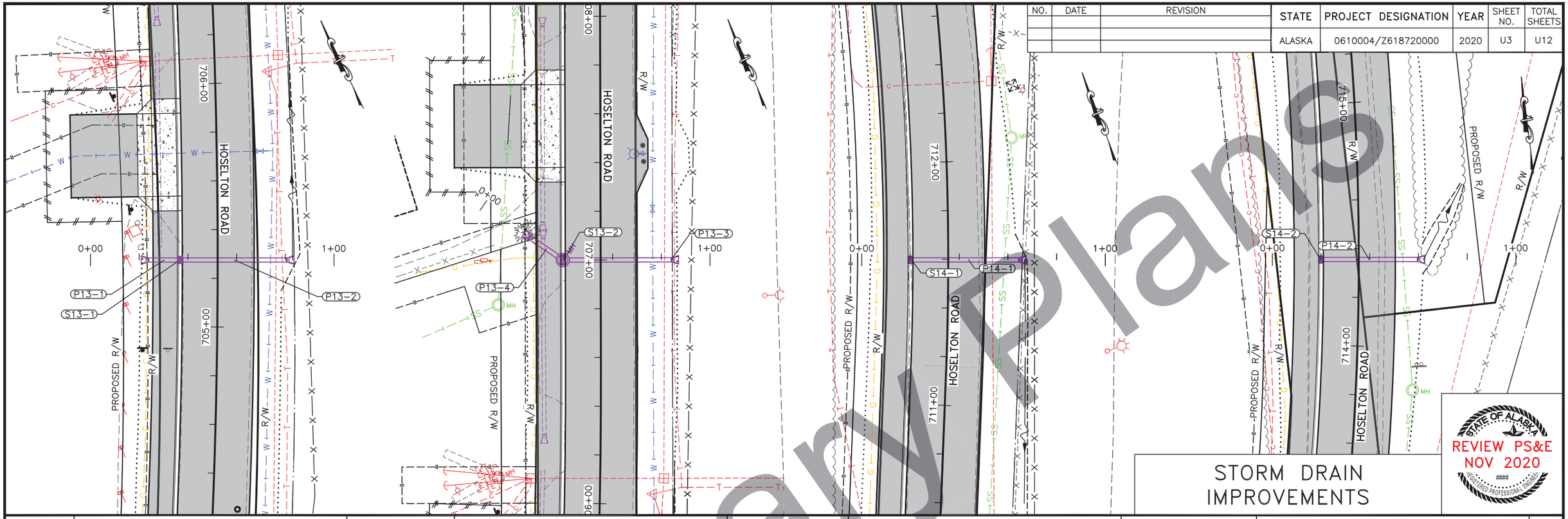
1. INSULATE STORM DRAIN PIPES AND STRUCTURES WITHIN 7 FEET OF A WATER OR SANITARY SEWER UTILITY.
2. APPLY 3 INCHES OF URETHANE SPRAY ON FOAM INSULATION TO STORM DRAIN PIPES AND STRUCTURE WALLS. INSULATE THE BOTTOM OF STRUCTURES WITH 4 INCH RIGID INSULATION BOARD.

Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	U3	U12

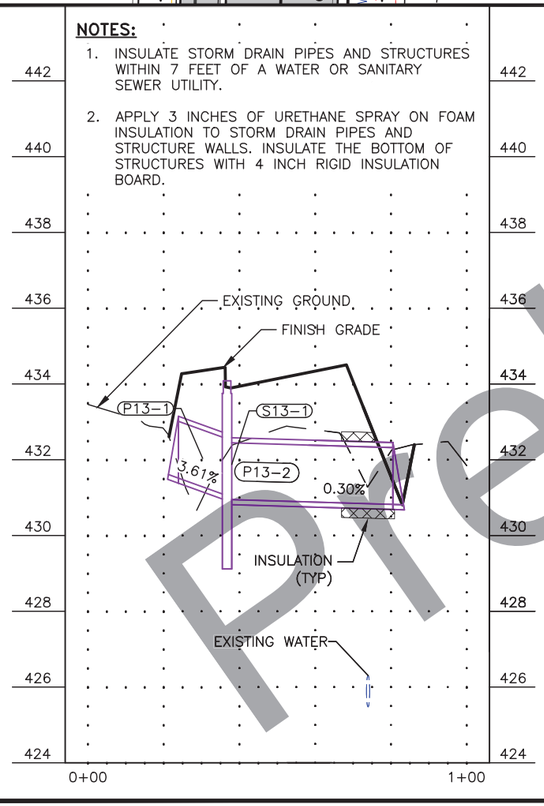


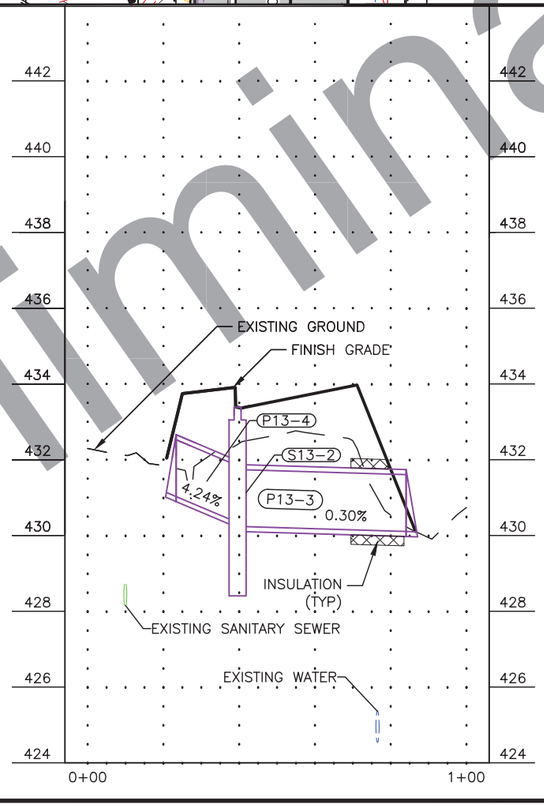
STORM DRAIN IMPROVEMENTS

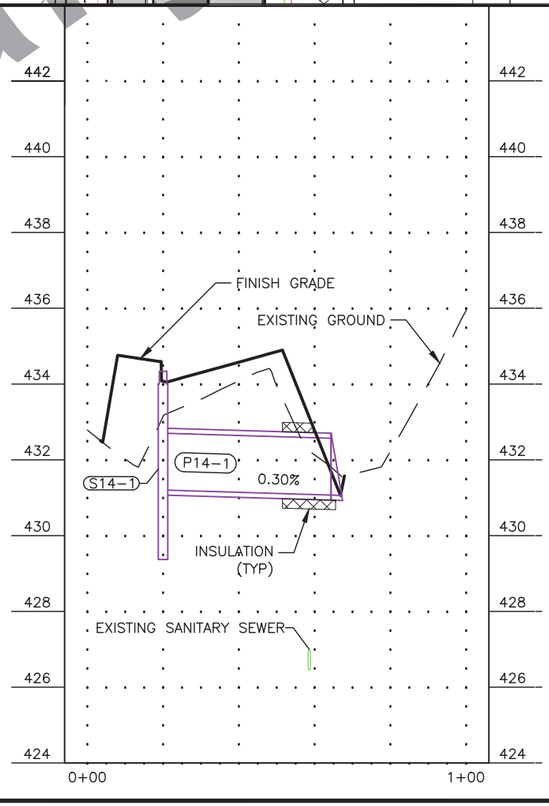
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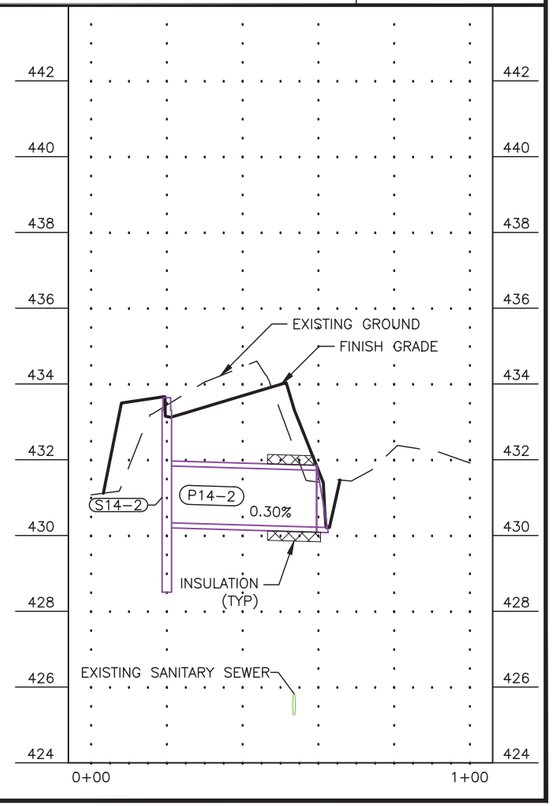
NOTES:

1. INSULATE STORM DRAIN PIPES AND STRUCTURES WITHIN 7 FEET OF A WATER OR SANITARY SEWER UTILITY.
2. APPLY 3 INCHES OF URETHANE SPRAY ON FOAM INSULATION TO STORM DRAIN PIPES AND STRUCTURE WALLS. INSULATE THE BOTTOM OF STRUCTURES WITH 4 INCH RIGID INSULATION BOARD.







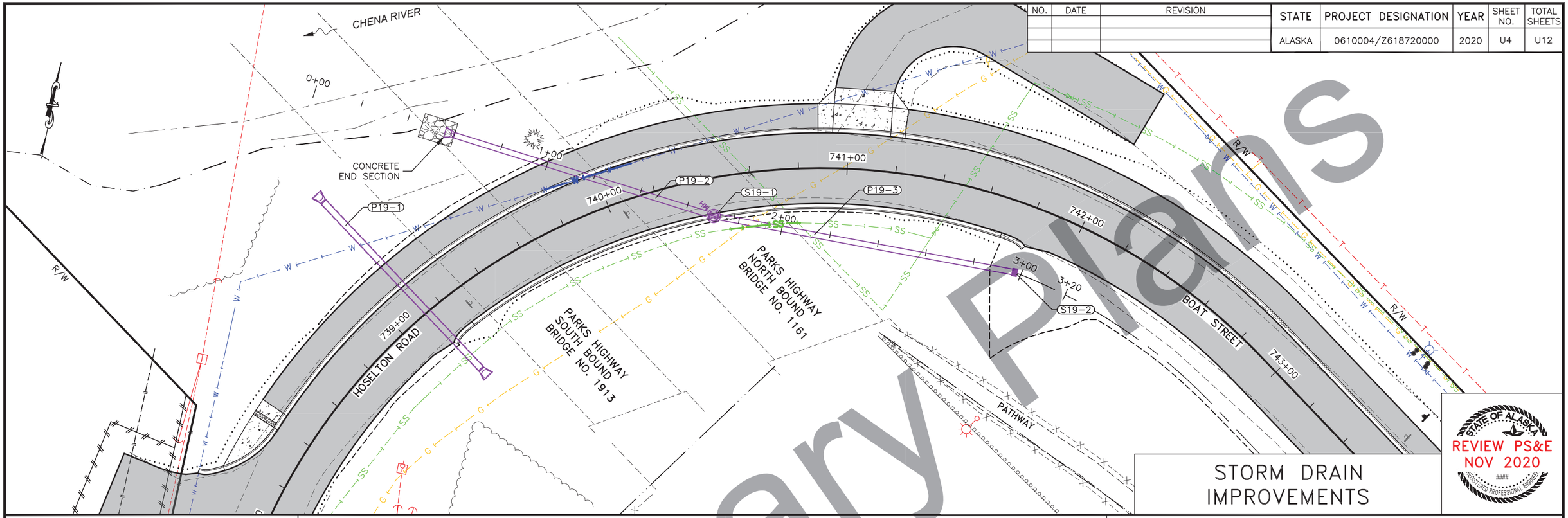


Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-U-Storm-U3 Thu, Nov/05/20 02:06pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	U4	U12

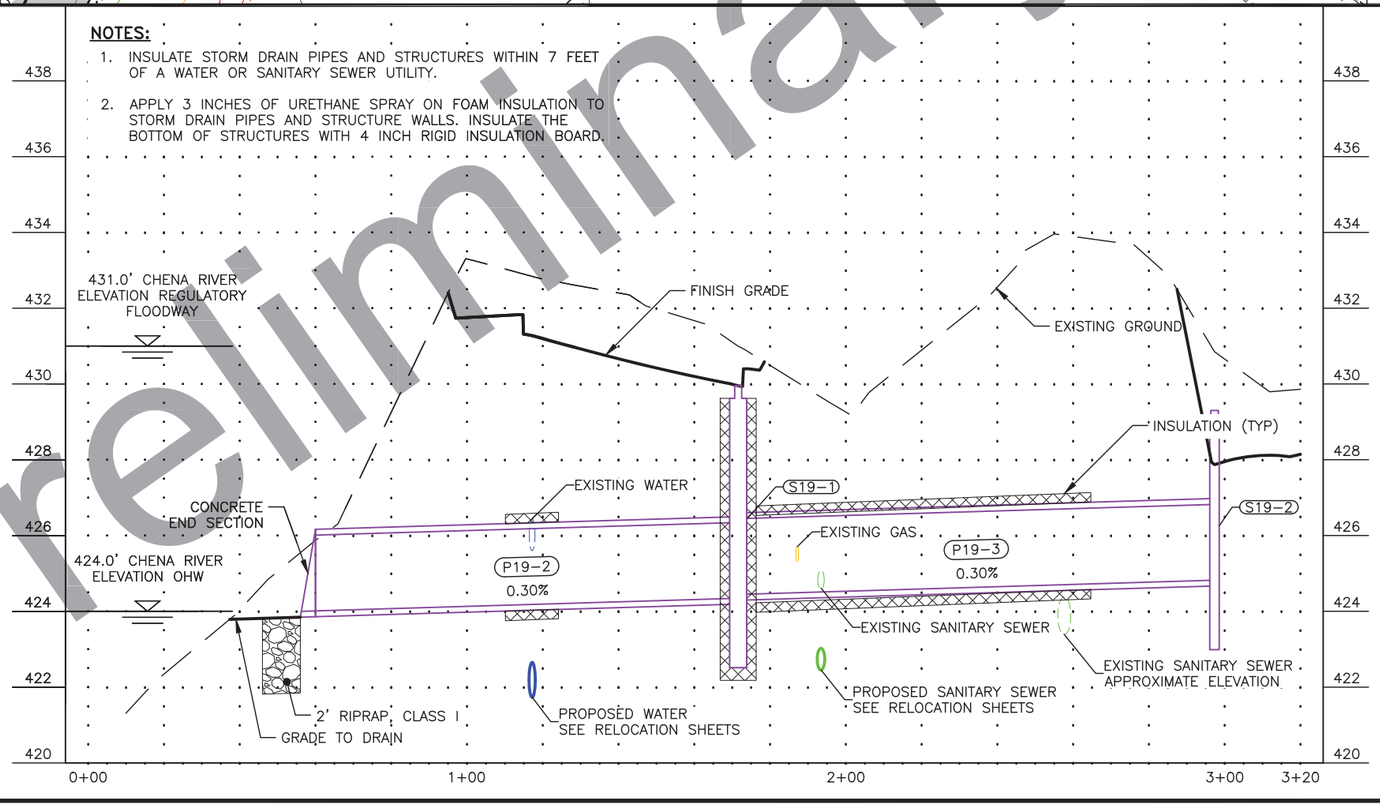


STORM DRAIN IMPROVEMENTS

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

NOTES:

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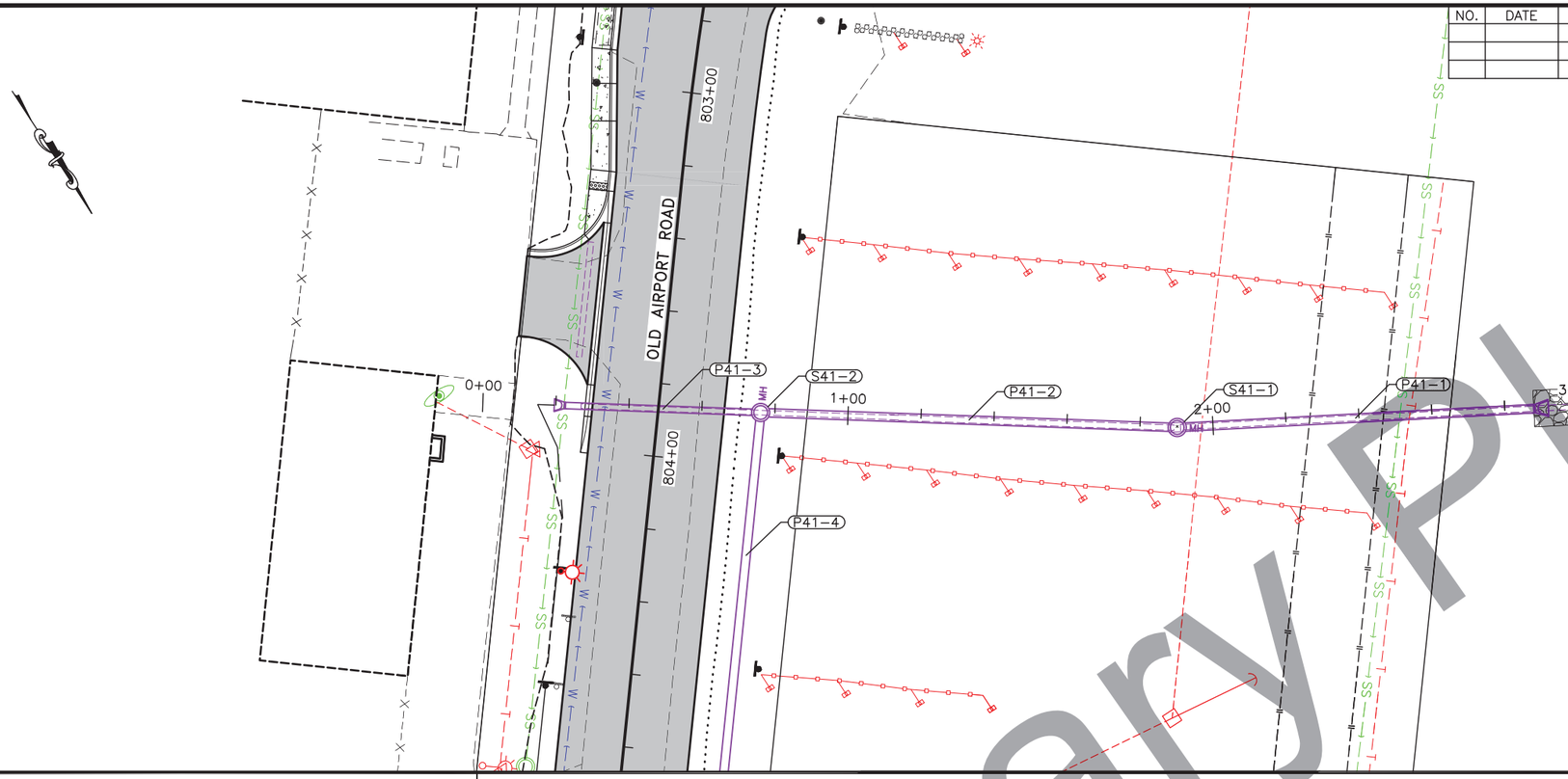


Preliminary Plans

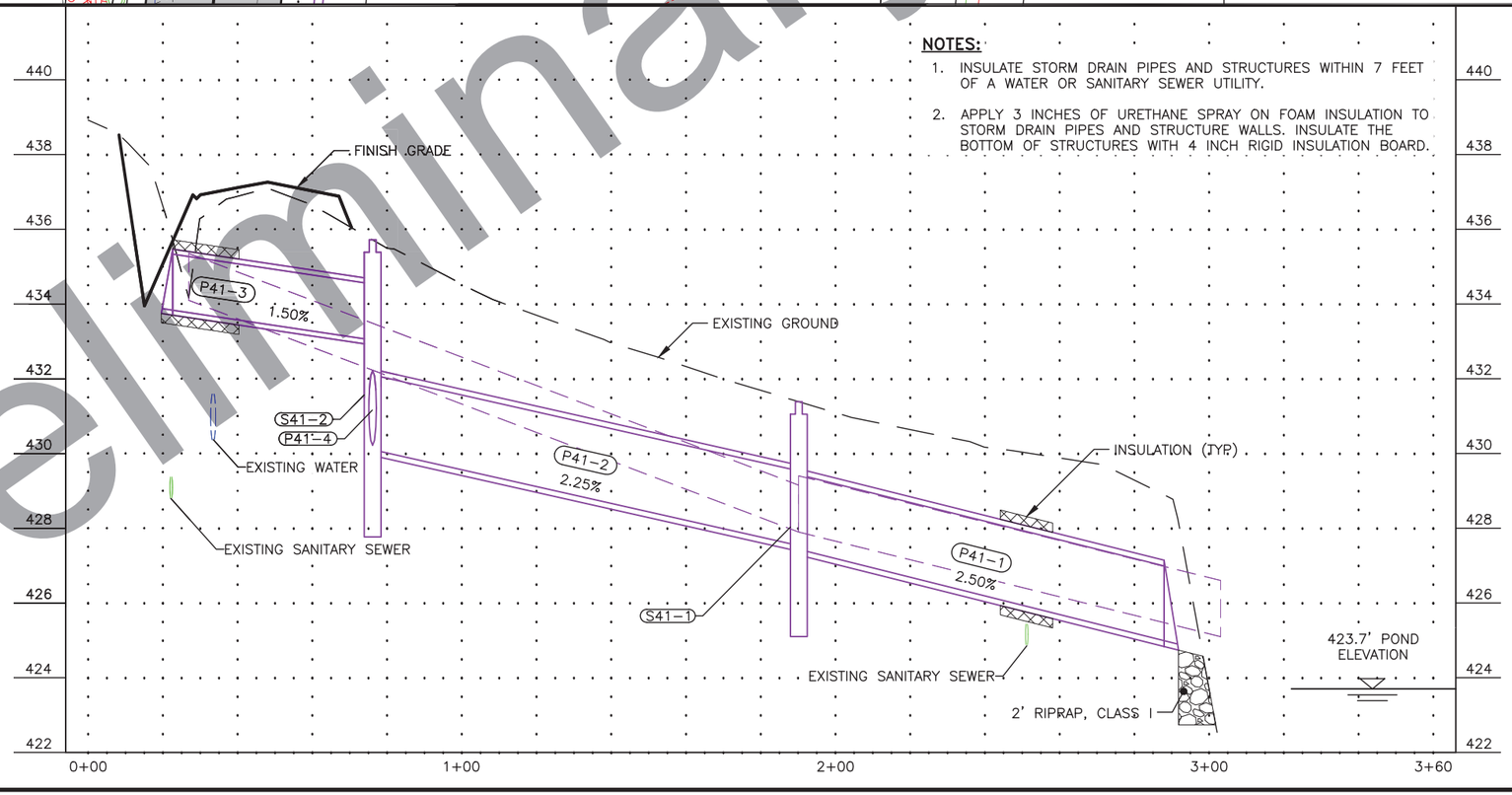
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	U5	U12



STORM DRAIN IMPROVEMENTS



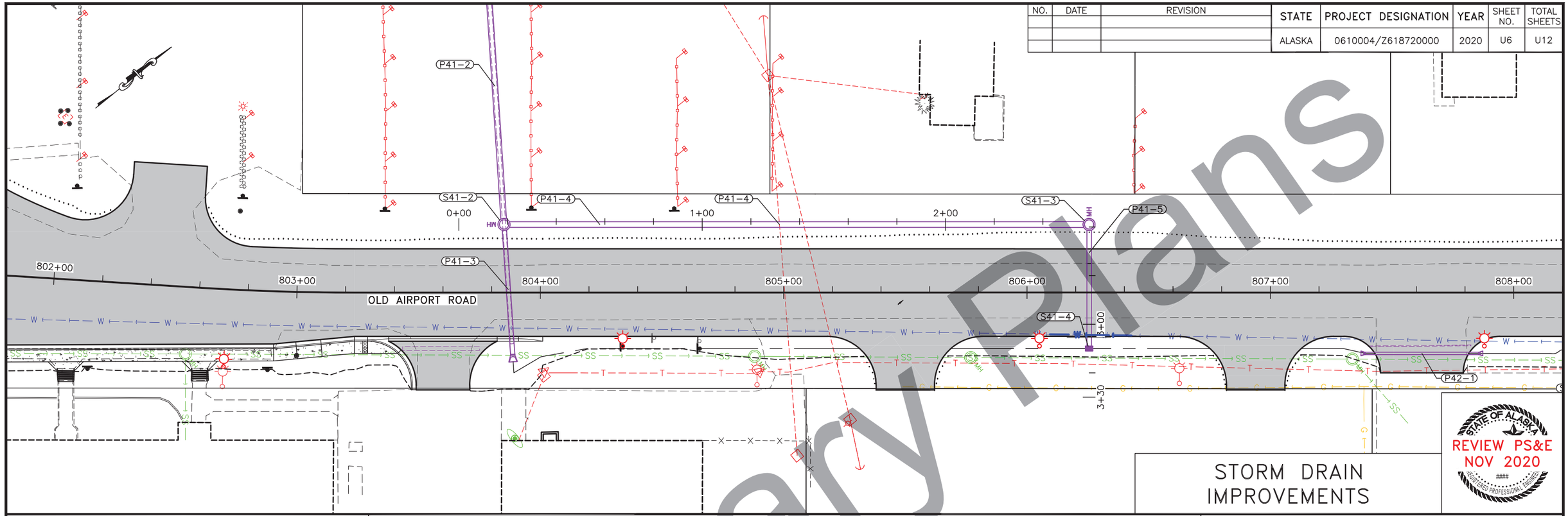
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Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	U6	U12

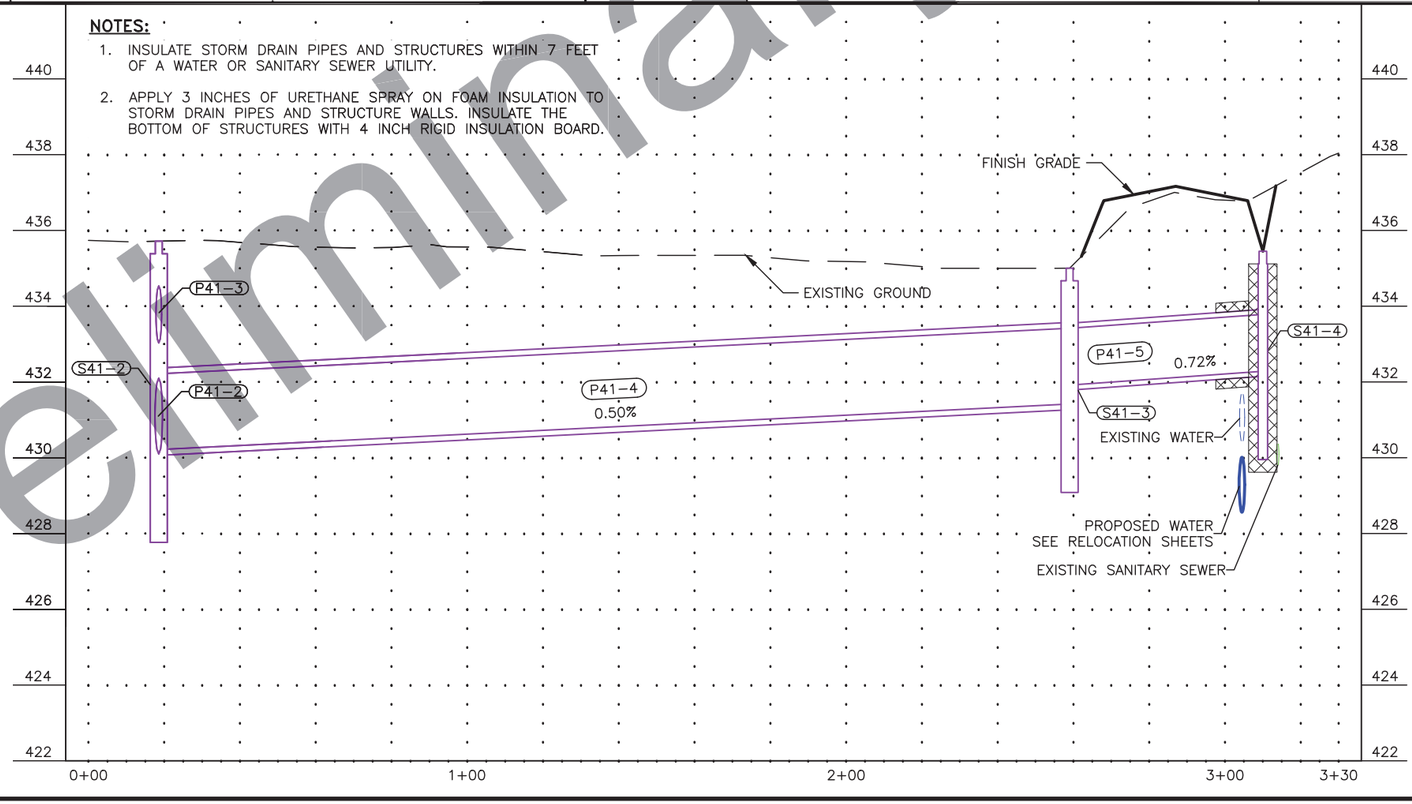


STORM DRAIN IMPROVEMENTS

STATE OF ALASKA
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NOV 2020
REGISTERED PROFESSIONAL ENGINEER
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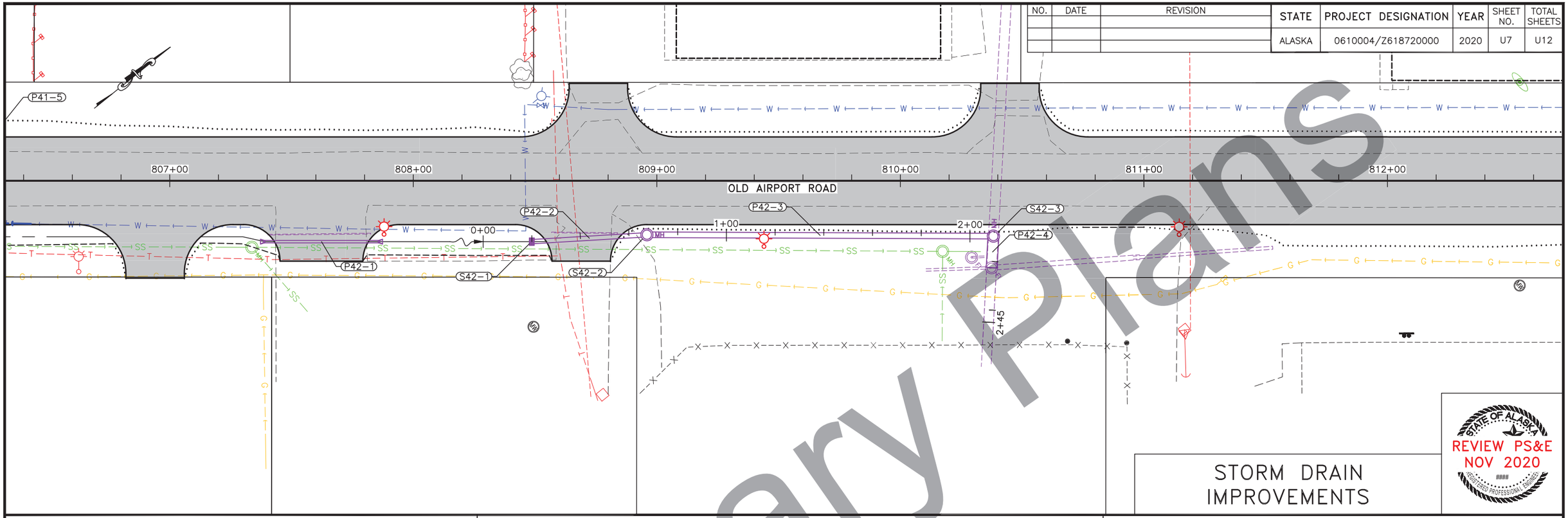


Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	U7	U12

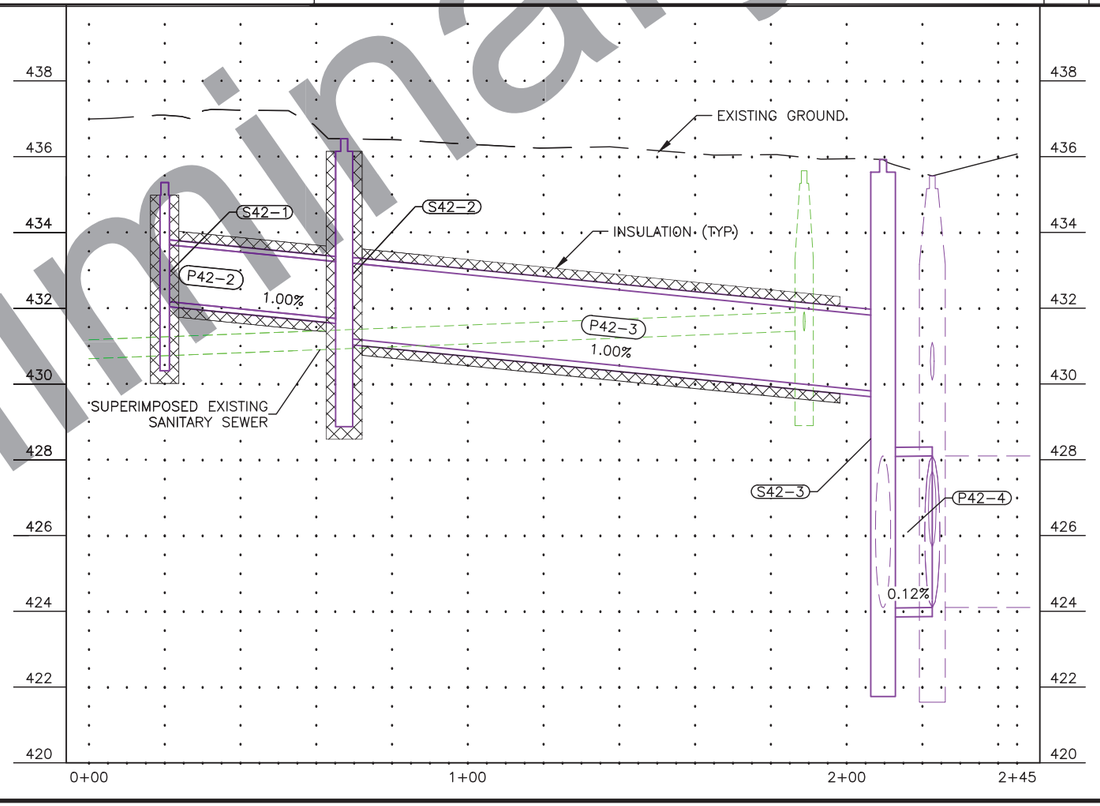


STORM DRAIN IMPROVEMENTS

STATE OF ALASKA
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NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

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Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	U8	U12

STORM DRAIN SUMMARY

SHEET	NAME	ALIGN	INLET			OUTLET			SLOPE	LENGTH (LF)			END SECTIONS (EA)			LENGTH (LF)			REMARKS
										603.0021.0018	603.0021.0024	603.0021.0048	603.0022.0018	603.0022.0024	603.0014.0024	616.0002.0075	603.2029.0018	603.2029.0024	
			STATION	OFFSET	INVERT	STATION	OFFSET	INVERT		CPP 18 INCH	CPP 24 INCH	CPP 48 INCH	CPP 18 INCH	CPP 24 INCH	REINFORCED CONCRETE END SECTION, 24 INCH	THAW PIPE 3/4 INCH DIAMETER (EA)	18 INCH STORM DRAIN ADDITIONAL INSULATION	24 INCH STORM DRAIN ADDITIONAL INSULATION	
U1	P4–1	D	516+73.1	15.5 LT	428.38	516+75.1	157.9 RT	424.66	2.15%		173.47			1		X			
U1	P4–2	D	518+21.2	15.5 LT	429.21	516+73.1	15.5 LT	428.48	0.50%		145.26					X			
U1	P4–3	D	520+30.9	14.0 LT	430.13	518+21.2	15.5 LT	429.31	0.40%		205.77					X		14	
U1	P4–4	D	522+26.6	15.5 LT	430.81	520+30.9	14.0 LT	430.23	0.30%		192.06					X		14	
U2	P5–1	D	523+24.7	15.5 LT	431.60	522+26.6	15.5 LT	431.31	0.30%	96.26						X			
U2	P5–2	D	524+22.7	15.5 LT	431.99	523+24.7	15.5 LT	431.70	0.30%	96.26						X			
U3	P13–1	H	705+27.5	28.3 LT	431.51	705+27.5	15.5 LT	431.05	3.61%	12.84			1						
U3	P13–2	H	705+27.5	15.5 LT	430.95	705+27.5	28.3 RT	430.82	0.30%	43.76			1				14		
U3	P13–3	H	707+00.0	15.5 LT	430.24	707+00.0	29.0 RT	430.11	0.30%	44.47			1				14		
U3	P13–4	H	707+09.2	28.8 LT	431.03	707+00.0	15.5 LT	430.34	4.24%	16.22			1						
U4	P14–1	H	711+59.8	15.5 LT	431.20	711+59.8	28.8 RT	431.07	0.30%	44.34			1				14		
U4	P14–2	H	714+35.5	15.5 LT	430.34	714+35.5	24.0 RT	430.22	0.30%	39.55			1				14		
U5	P19–2	H	740+42.0	15.5 RT	424.35	739+59.4	53.4 LT	424.01	0.30%		111.57				1	X		14	
U5	P19–3	H	741+80.9	28.0 RT	424.82	740+42.0	15.5 RT	424.45	0.30%		125.74					X		89	
U6	P41–1	OA	803+77.6	141.8 LT	427.43	803+60.6	250.5 LT	424.68	2.51%		97.77			1		X		14	
U6	P41–2	OA	803+85.1	28.0 LT	430.10	803+77.6	141.8 LT	427.53	2.25%		114.12					X			
U6	P41–3	OA	803+88.6	25.4 RT	433.83	803+85.1	28.0 LT	433.03	1.50%	53.51			1			X	21		
U6	P41–4	OA	806+25.5	28.0 LT	431.42	803+85.1	28.0 LT	430.22	0.50%		240.44					X			
U6	P41–5	OA	806+25.5	23.0 RT	432.28	806+25.5	28.0 LT	431.92	0.72%	51.00						X	12		
U7	P42–2	OA	808+48.6	25.0 RT	432.18	808+95.9	22.2 RT	431.71	1.00%	47.38						X	44		
U7	P42–3	OA	808+95.9	22.2 RT	431.21	810+38.2	22.7 RT	429.79	1.00%		142.25					X		130	
U7	P42–4	OA	810+37.5	35.7 RT	424.10	810+38.2	22.7 RT	424.08	0.12%			13.00				X			CONNECT TO EXISTING MANHOLE
TOTAL										546	1,549	13	7	2	1	16	133	275	

STRUCTURE SUMMARY

SHEET	NAME	604.0001.0001 STORM SEWER MANHOLE, TYPE I	604.0001.0002 STORM SEWER MANHOLE, TYPE II	604.0005.000A INLET, TYPE A	ALIGNMENT	STATION	OFFSET	TOP OF CASTING ELEVATION	TYPE OF CASTING	PIPES IN		PIPES OUT		REMARKS
										NAME	INVERT	NAME	INVERT	
U1	S4–1	X			D	516+73.12	15.50 LT	434.98	STANDARD CURB INLET FRAME & GRATE	P4–2	428.48	P4–1	428.38	
U1	S4–2	X			D	518+21.15	15.50 LT	435.18	STANDARD CURB INLET FRAME & GRATE	P4–3	429.31	P4–2	429.21	
U1	S4–3	X			D	520+30.90	14.00 LT	435.98	MANHOLE COVER	P4–4	430.23	P4–3	430.13	
U2	S5–1	X			D	522+26.63	15.50 LT	435.45	STANDARD CURB INLET FRAME & GRATE	P5–1	431.31	P4–4	430.81	
U2	S5–2	X			D	523+24.67	15.50 LT	435.03	STANDARD CURB INLET FRAME & GRATE	P5–2	431.70	P5–1	431.60	
U2	S5–3	X			D	524+22.70	15.50 LT	435.08	STANDARD CURB INLET FRAME & GRATE			P5–2	431.99	
U3	S13–1			X	H	705+27.50	15.50 LT	434.08	STANDARD CURB INLET FRAME & GRATE	P13–1	431.05	P13–2	430.95	
U3	S13–2	X			H	707+00.00	15.50 LT	433.38	STANDARD CURB INLET FRAME & GRATE	P13–4	430.34	P13–3	430.24	
U4	S14–1			X	H	711+59.76	15.50 LT	434.33	STANDARD CURB INLET FRAME & GRATE			P14–1	431.20	
U4	S14–2			X	H	714+35.52	15.50 LT	433.64	STANDARD CURB INLET FRAME & GRATE			P14–2	430.34	
U5	S19–1	X			H	740+41.99	15.50 RT	429.95	STANDARD CURB INLET FRAME & GRATE	P19–3	424.45	P19–2	424.35	INSULATE
U5	S19–2			X	H	741+80.85	28.01 RT	428.48	FIELD INLET FRAME & GRATE			P19–3	424.82	
U6	S41–1	X			OA	803+77.59	141.84 LT	431.38	MANHOLE COVER	P41–2	427.53	P41–1	427.43	
U6	S41–2	X			OA	803+85.11	28.00 LT	435.71	MANHOLE COVER	P41–3	433.03	P41–2	430.10	
										P41–4	430.22	P41–2	430.10	
U6	S41–3	X			OA	806+25.54	28.00 LT	435.00	MANHOLE COVER	P41–5	431.92	P41–4	431.42	
U6	S41–4			X	OA	806+25.54	23.00 RT	435.58	FIELD INLET FRAME & GRATE			P41–5	432.28	INSULATE
U7	S42–1			X	OA	808+48.63	25.00 RT	435.31	FIELD INLET FRAME & GRATE			P42–2	432.18	INSULATE
U7	S42–2	X			OA	808+95.93	22.17 RT	436.47	MANHOLE COVER	P42–2	431.71	P42–3	431.21	INSULATE
U7	S42–3		X		OA	810+38.17	22.73 RT	435.92	MANHOLE COVER	P42–3	429.79	P42–4	424.10	CONNECT TO EXISTING PIPE
TOTAL		12	1	6	EACH									

Preliminary Plans

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STATE OF ALASKA
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NOV 2020
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STORM DRAIN IMPROVEMENTS

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	U9	U12

PARKS HIGHWAY SOUTH BOUND BRIDGE NO. 1913

PARKS HIGHWAY NORTH BOUND BRIDGE NO. 1161

CHENA RIVER

UTILITY POT HOLE
STA. = 739+64
OFF. = 19.4' LT
SURVEYED ELEV. = 427.1'
EXISTING BURY DEPTH = 5.8'

UTILITY POT HOLE
STA. = 741+10
OFF. = 33.8 LT
SURVEYED ELEV. = 426.0'
EXISTING BURY DEPTH = 4.1'

INSTALL VERTICAL 45° ELBOW
STA:740+05.04
OFF:13.94 LT

INSTALL VERTICAL 45° ELBOW
STA:740+09.07
OFF:13.80 LT

INSTALL VERTICAL 45° ELBOW
STA:739+83.61
OFF:15.87 LT

INSTALL VERTICAL 45° ELBOW
STA:739+87.52
OFF:15.37 LT

R/W

0+00 1+00 2+00 3+00 3+68

738+00 739+00 740+00 741+00 742+00

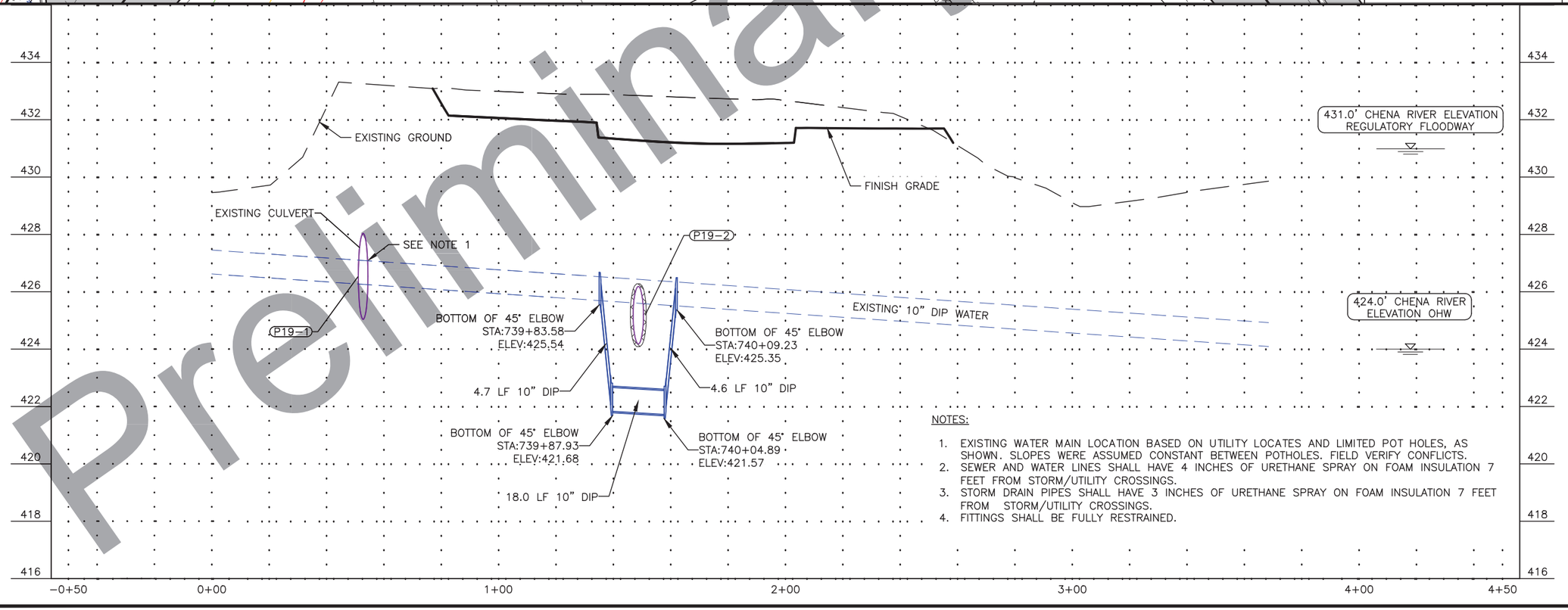
P19-1 P19-2 P19-3 S19-1 S19-2

HOSELTON ROAD

BOAT STREET

WATER IMPROVEMENTS

STATE OF ALASKA
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NOTES:

1. EXISTING WATER MAIN LOCATION BASED ON UTILITY LOCATES AND LIMITED POT HOLES, AS SHOWN. SLOPES WERE ASSUMED CONSTANT BETWEEN POTHOLES. FIELD VERIFY CONFLICTS.
2. SEWER AND WATER LINES SHALL HAVE 4 INCHES OF URETHANE SPRAY ON FOAM INSULATION 7 FEET FROM STORM/UTILITY CROSSINGS.
3. STORM DRAIN PIPES SHALL HAVE 3 INCHES OF URETHANE SPRAY ON FOAM INSULATION 7 FEET FROM STORM/UTILITY CROSSINGS.
4. FITTINGS SHALL BE FULLY RESTRAINED.

Preliminary Plans

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	U10	U12

CHENA RIVER

PARKS HIGHWAY SOUTH BOUND BRIDGE NO. 1913

PARKS HIGHWAY NORTH BOUND BRIDGE NO. 1161

R/W

HOSELTON ROAD

BOAT STREET

PATHWAY

P19-1

P19-2

P19-3

S19-1

S19-2

738+00

739+00

740+00

741+00

742+00

743+00

0+00

1+00

2+00

3+00

4+00

5+00

6+00

UTILITY POTHOLE
STA. = 738+50
OFF. = 24.9' RT
SURVEYED ELEV. = 426.5'
EXISTING BURY DEPTH = 3.6'

INSTALL VERTICAL 45° ELBOW
STA:740+52.15
OFF:22.44 RT

INSTALL VERTICAL 45° ELBOW
STA:740+54.44
OFF:22.50 RT

INSTALL VERTICAL 45° ELBOW
STA:740+74.40
OFF:22.27 RT

INSTALL VERTICAL 45° ELBOW
STA:740+76.92
OFF:22.14 RT

UTILITY POTHOLE
STA. = 740+62
OFF. = 18.3' RT
SURVEYED ELEV. = 425.8'
EXISTING BURY DEPTH = 4.7'

UTILITY POTHOLE
STA. = 741+41
OFF. = 21.1' RT
SURVEYED ELEV. = 425.8'
EXISTING BURY DEPTH = 5.3'

UTILITY POTHOLE
STA. = 741+77
OFF. = 47.5 LT
SURVEYED ELEV. = 426.0'
EXISTING BURY DEPTH = 5.2'

SANITARY SEWER IMPROVEMENTS

STATE OF ALASKA
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Preliminary Plans

436
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431.0' CHENA RIVER ELEVATION
REGULATORY FLOODWAY

424.0' CHENA RIVER
ELEVATION OHW

EXISTING GROUND

FINISH GRADE

EXISTING CULVERT

SEE NOTE 1

EXISTING 6" DIP FORCE MAIN
SANITARY SEWER

EXISTING GAS

BOTTOM OF 45° ELBOW
STA:740+51.58
ELEV:424.54

2.6 LF 6" DIP

BOTTOM OF 45° ELBOW
STA:740+54.51
ELEV:422.36

18.0 LF 6" DIP

BOTTOM OF 45° ELBOW
STA:740+77.02
ELEV:424.35

2.3 LF 6" DIP

BOTTOM OF 45° ELBOW
STA:740+74.29
ELEV:422.36

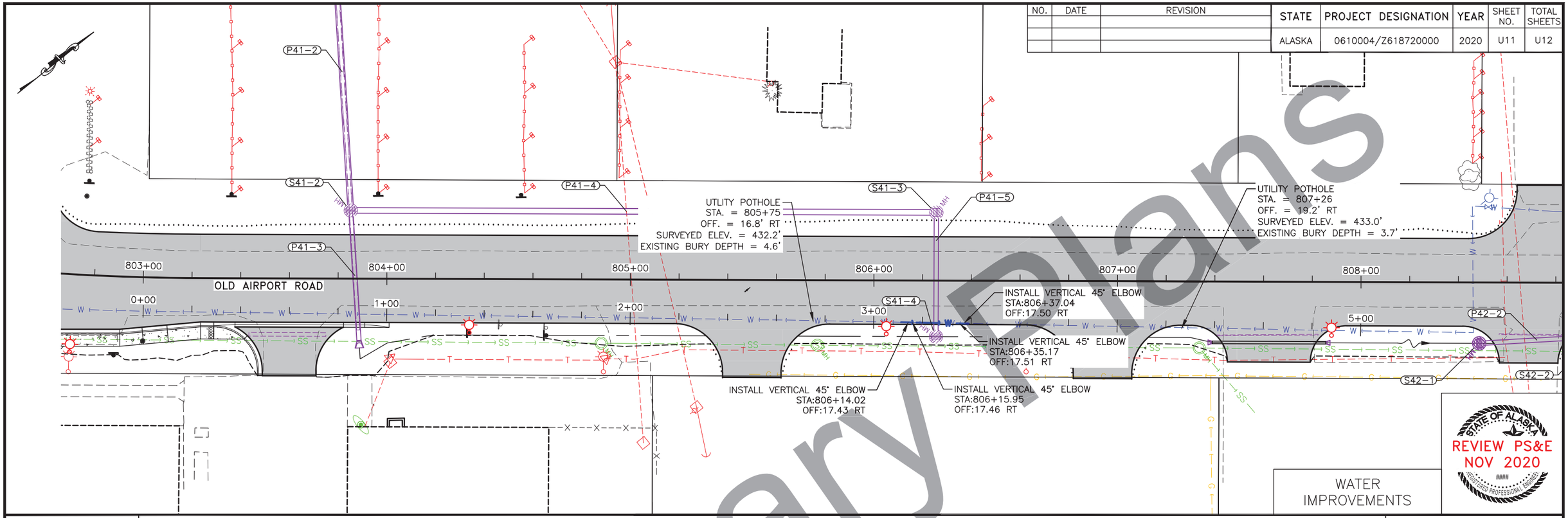
NOTES:

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4. FITTINGS SHALL BE FULLY RESTRAINED.

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-U-Water & Sewer-U10 Thu, Nov/05/20 02:07pm

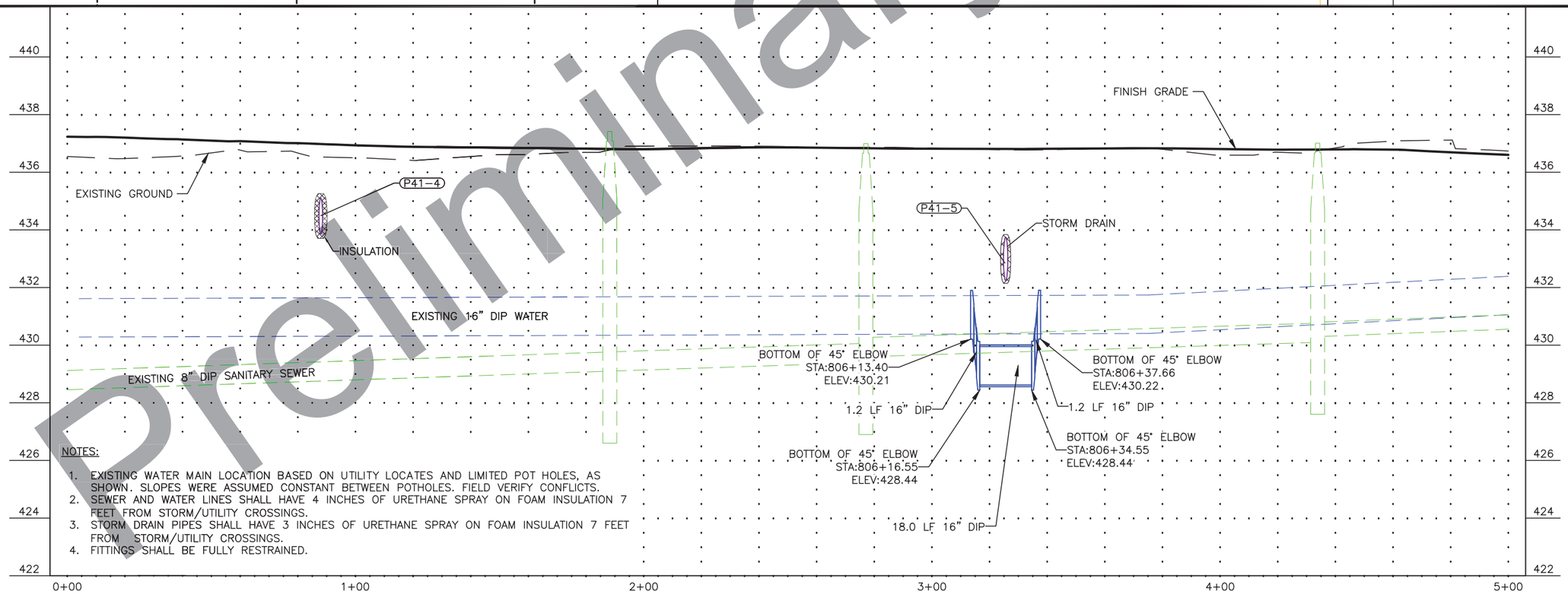
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	U11	U12



WATER IMPROVEMENTS

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER



NOTES:

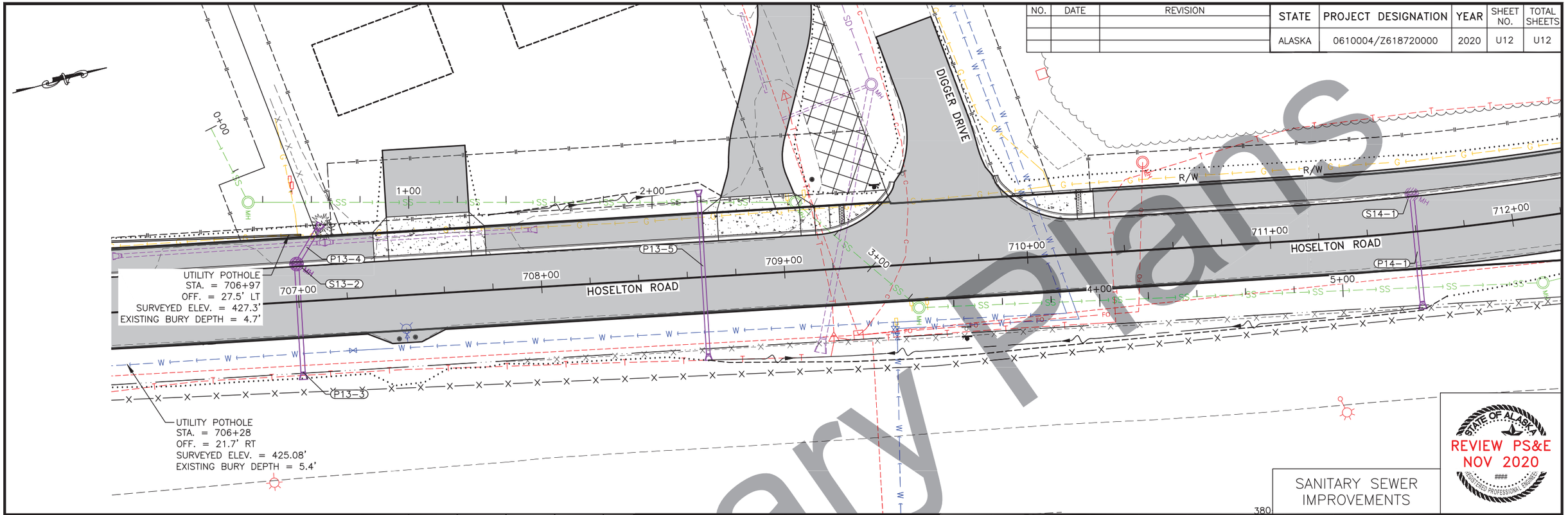
1. EXISTING WATER MAIN LOCATION BASED ON UTILITY LOCATES AND LIMITED POT HOLES, AS SHOWN. SLOPES WERE ASSUMED CONSTANT BETWEEN POTHOLES. FIELD VERIFY CONFLICTS.
2. SEWER AND WATER LINES SHALL HAVE 4 INCHES OF URETHANE SPRAY ON FOAM INSULATION 7 FEET FROM STORM/UTILITY CROSSINGS.
3. STORM DRAIN PIPES SHALL HAVE 3 INCHES OF URETHANE SPRAY ON FOAM INSULATION 7 FEET FROM STORM/UTILITY CROSSINGS.
4. FITTINGS SHALL BE FULLY RESTRAINED.

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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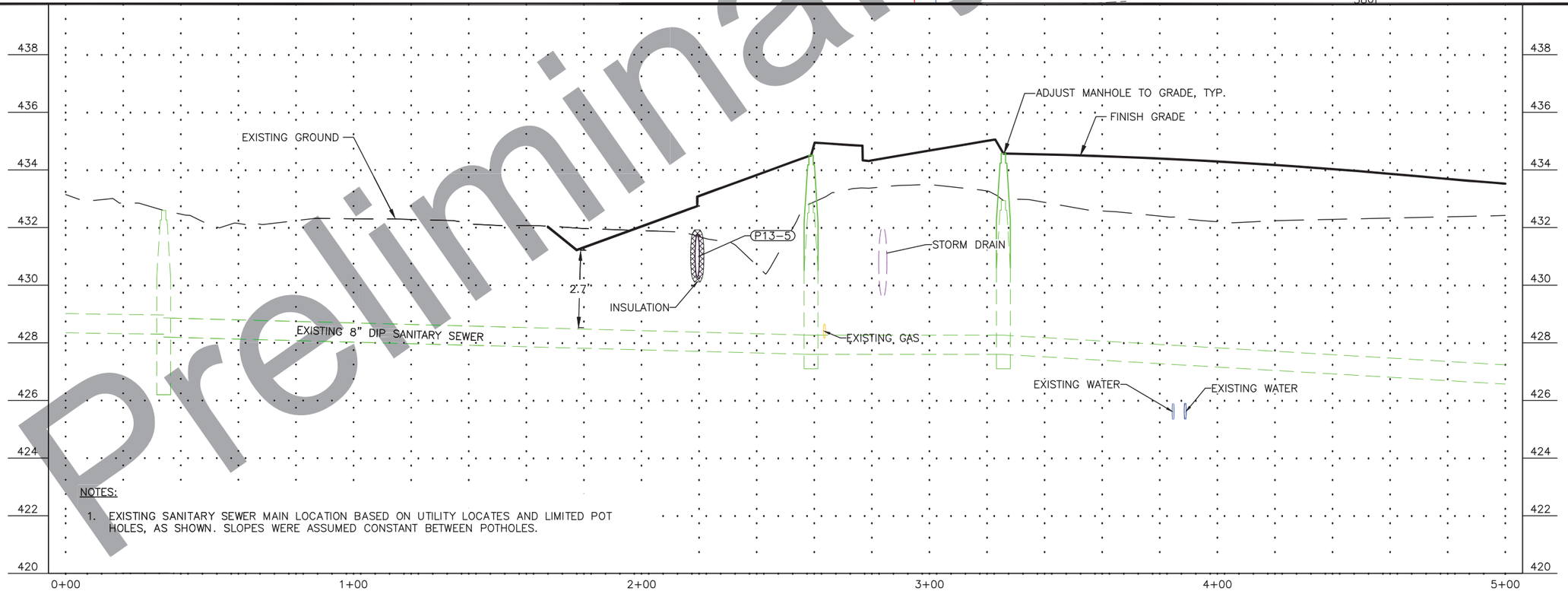
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	U12	U12



SANITARY SEWER IMPROVEMENTS

STATE OF ALASKA
REVIEW PS&E
NOV 2020
####
REGISTERED PROFESSIONAL ENGINEER



NOTES:

1. EXISTING SANITARY SEWER MAIN LOCATION BASED ON UTILITY LOCATES AND LIMITED POT HOLES, AS SHOWN. SLOPES WERE ASSUMED CONSTANT BETWEEN POTHOLES.

Preliminary Plans

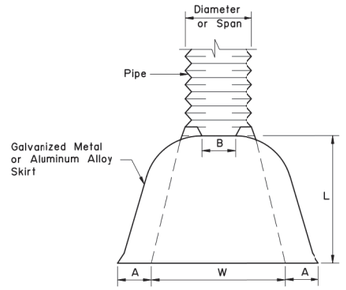
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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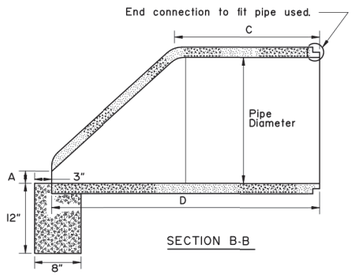
D-06.10

SHEET 1 of 3



PLAN

ROUND AND PIPE ARCH

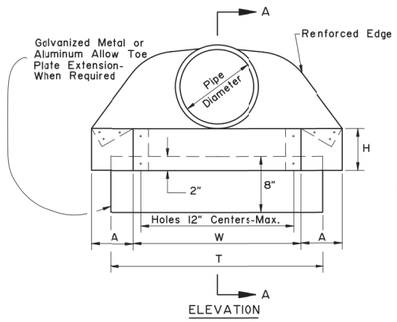


SECTION B-B

MINIMUM DIMENSIONS					
Pipe Diameter	A	B	C	D	E
12"	4"	1 3/4"	24"	46"	24"
18"	9"	2"	25"	50"	36"
24"	9 1/2"	2 1/2"	30"	72"	48"
30"	12"	3"	20"	73"	60"
36"	15"	3 3/8"	35"	97"	72"
42"	21"	3 3/4"	35"	98"	78"
48"	24"	4 1/4"	26"	98"	84"
54"	27"	4 5/8"	33"	99"	82"

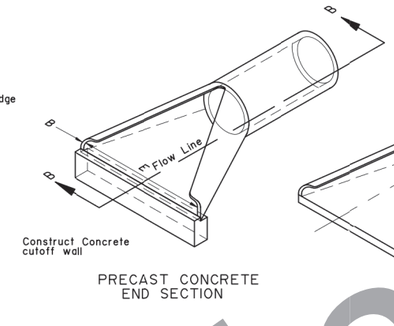
ROUND PIPE											
Pipe Diam. Inches	Thickness For Aluminum	Thk. for Galv. Metal	Dimension Inches A 1" Tol.	B Max.	H 1" Tol.	L 1 1/2" Tol.	W 2" Tol.	T 2" Tol.	Skirt	Approx. Slope
12"	0.060	0.064	6"	6"	6"	21"	24"	34"	1 Pc.	2 1/2
15"	0.060	0.064	7"	8"	6"	26"	30"	40"	1 Pc.	2 1/2
18"	0.060	0.064	8"	10"	6"	31"	36"	46"	1 Pc.	2 1/2
21"	0.060	0.064	9"	12"	6"	36"	42"	52"	1 Pc.	2 1/2
24"	0.075	0.064	10"	13"	6"	41"	48"	58"	1 Pc.	2 1/2
30"	0.075	0.079	12"	16"	8"	51"	60"	70"	1 Pc.	2 1/2
36"	0.105	0.079	14"	19"	9"	60"	72"	94"	2 Pc.	2 1/2
42"	0.105	0.109	16"	22"	11"	69"	84"	106"	2 Pc.	2 1/2
48"	0.105	0.109	18"	27"	12"	78"	90"	112"	2 Pc.	2 1/4
54"	0.105	0.109	18"	30"	12"	84"	102"	122"	2 Pc.	2 1/4
60"	0.135	0.109	18"	33"	12"	87"	114"	134"	3 Pc.	2 1/4
66"	0.135	0.109	18"	36"	12"	87"	120"	142"	3 Pc.	2 1/4
72"	0.135	0.109	18"	39"	12"	87"	126"	146"	3 Pc.	2 1/4
78"	— —	0.109	18"	42"	12"	87"	132"	152"	3 Pc.	1 1/4
84"	— —	0.109	18"	45"	12"	87"	138"	158"	3 Pc.	1 1/6

PIPE-ARCH											
Pipe-Arch Dimension Inches		Thickness for Aluminum	Thk. for Galv. Metal	Dimension Inches A 1" Tol.	B Max.	H 1" Tol.	L 1 1/2" Tol.	W 2" Tol.	T 2" Tol.	Skirt	Approx. Slope
Span	Rise										
17"	13"	0.060	0.064	7"	9"	6"	19"	30"	40"	1 Pc.	2 1/2
21"	15"	0.060	0.064	7"	10"	6"	23"	36"	46"	1 Pc.	2 1/2
24"	18"	0.060	0.064	8"	12"	6"	28"	42"	52"	1 Pc.	2 1/2
28"	20"	0.075	0.064	9"	14"	6"	32"	48"	58"	1 Pc.	2 1/2
35"	24"	0.075	0.079	10"	16"	6"	39"	60"	70"	1 Pc.	2 1/2
42"	29"	0.105	0.079	12"	18"	8"	46"	75"	85"	1 Pc.	2 1/2
49"	33"	0.105	0.109	13"	21"	9"	53"	85"	103"	2 Pc.	2 1/2
57"	38"	0.105	0.109	18"	26"	12"	63"	90"	114"	2 Pc.	2 1/2
64"	43"	0.105	0.109	18"	30"	12"	70"	102"	130"	2 Pc.	2 1/4
71"	47"	0.135	0.109	18"	33"	12"	77"	114"	144"	3 Pc.	2 1/4
77"	52"	0.135	0.109	18"	36"	12"	84"	120"	158"	3 Pc.	2 1/4
83"	57"	0.135	0.109	18"	39"	12"	90"	126"	170"	3 Pc.	2 1/4

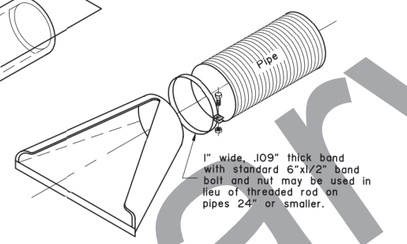


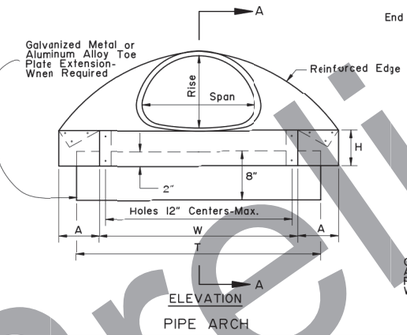
ELEVATION

ROUND PIPE



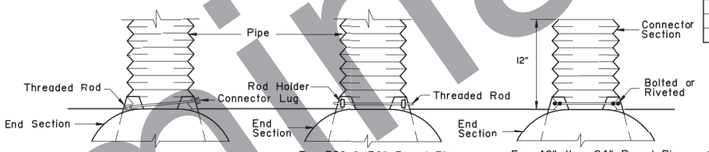
PRECAST CONCRETE END SECTION





ELEVATION

PIPE ARCH

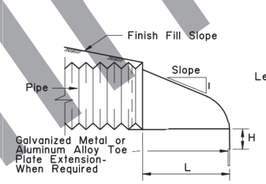


For 12" thru 24" Round Pipe with Annular Corrugations

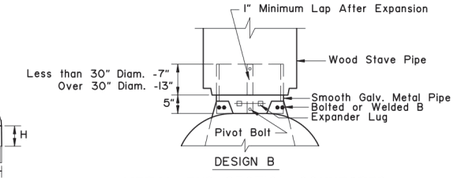
For 30" & 36" Round Pipe and 18"x11" thru 58"x36" Pipe Arch with Annular Corrugations.

For 42" thru 84" Round Pipe and 65"x40" thru 85"x54" Pipe Arch with Annular Corrugations and All Helically Corrugated Pipe and Pipe Arch.

DESIGN A



SECTION A-A



DESIGN B

METAL END SECTION CONNECTED TO WOOD STAVE PIPE

GENERAL NOTES:

1. Toe plate extensions will be required only when provided for on the plans. When required, the toe plate extensions shall be punched with holes to match those in lip of skirt and fastened with 3/8 inch or larger galvanized nuts and bolts and shall be the same gage as the end section.
2. Galvanized Metal or Aluminum Alloy End Sections may be used on Wood Stave and Plastic Pipe.
3. All 3 piece bodies shall have 12 gage sides and 10 gage center panels. Multiple panel bodies shall have lap seams which are to be tightly joined by 3/8" galvanized rivets or bolts.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

CULVERT END SECTIONS

Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E. Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review By: Date:

Next Code and Standards Review date: 02/08/2029

D-06.10

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V1 Thu, Nov/05/20 02:07pm

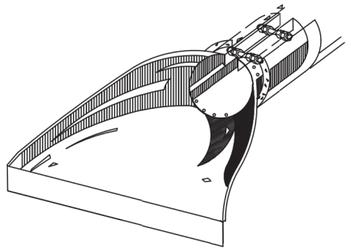
STANDARD DRAWING
D-06.10

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V2	V34

D-06.10 SHEET 2 of 3





GENERAL NOTES

1. See general notes on sheet 1 of 3.
2. See sheet 1 of 3 for metal end section dimensions.
3. Insert bolts, washers and rivets shall be galvanized. Insert thickness is the same as the end section.
4. Use culvert inserts only at inlet.

METAL INSERTS FOR USE WITH CORRUGATED PLASTIC PIPE AND METAL END SECTIONS

State of Alaska DOT&PF
ALASKA STANDARD PLAN

CULVERT END SECTIONS

Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E. Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

Next Code and Standards Review date: 02/08/2029

D-06.10

Preliminary Plans

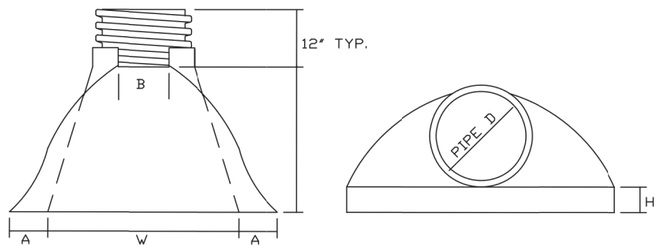
STANDARD DRAWING
D-06.10



PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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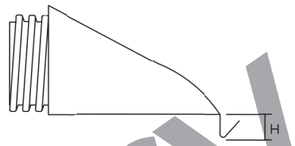
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V3	V34



TOP VIEW

END VIEW



SIDE VIEW

PIPE DIAMETER	DIMENSIONS IN MILLIMETERS				
	A(1"±)	B MAX	H(1"±)	L(1/2"±)	W(2"±)
12" and 15"	6 1/2"	10"	6 1/2"	25"	29"
18"	7 1/2"	15"	6 1/2"	32"	35"
24"	7 1/2"	18"	6 1/2"	36"	45"
30"	10 1/2"	N/A	7"	53"	68"
36"	10 1/2"	N/A	7"	53"	68"

PLASTIC END SECTION FOR CORRUGATED PLASTIC PIPE

D-06.10 SHEET 3 of 3

GENERAL NOTES

1. Plastic flared end sections may be used with HDPE corrugated culvert pipes where noted in project plans or approved by project engineer.
2. Consult manufacturer's recommendations for proper sizing and coupling devices. Recommended fasteners may include connecting bands or cinch ties. Fittings across dimension B may include threaded rods with wing nuts or bolts and washers. plastic welds may be recommended.
3. Align coupling to accomodate pipe corrugations.
4. Metal components e.g. bolts or washers must be galvanized.
5. Attachment of end section should preserve culvert alignment and not impair pipe function. Use end sections only on culvert inlet.
6. Toe plate extensions will be required only when designated on the plans.
7. End sections will not be used on HDPE culvert pipes larger than 36" unless indicated by project plans or approved by the Engineer.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

CULVERT END SECTIONS

Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E.
Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

Next Code and Standards Review date: 02/08/2029

D-06.10

Preliminary Plans

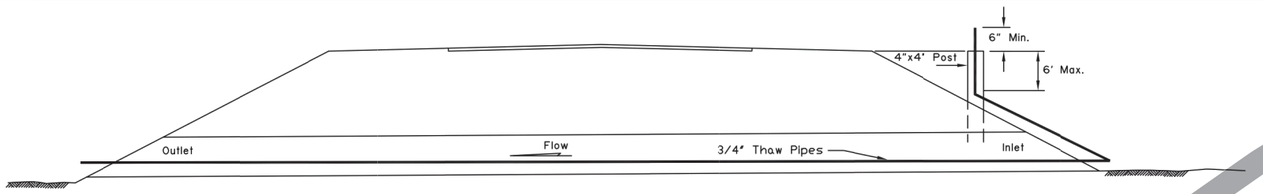
STANDARD DRAWING
D-06.10

REVIEW PS&E
NOV 2020
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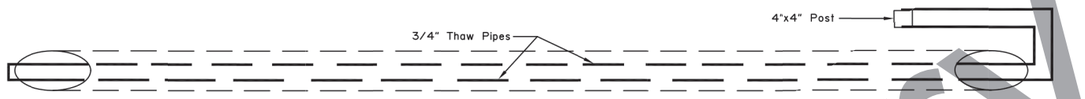
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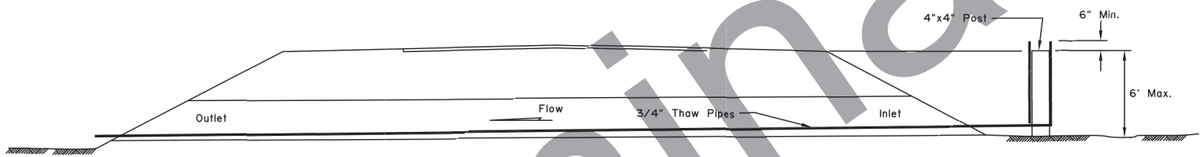
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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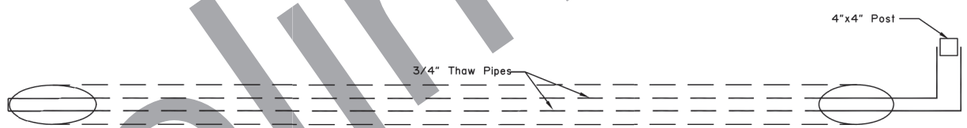
CROSS-SECTION



PLAN VIEW



CROSS-SECTION



PLAN VIEW

D-11.01

SHEET | of |

GENERAL NOTES:

1. 3/4" main line and standpipes to be liquid tight and filled with 50-50 antifreeze.
2. Standpipe support posts to be installed not more than 6'-0" below shoulder.
3. Thaw pipes to be attached to culvert at inlet and outlet ends and to post.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

CULVERT CIRCULATING THAW PIPE

Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E. Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review By: Date:

Next Code and Standards Review date: 02/08/2029

D-11.01

Preliminary Plans

STANDARD DRAWING
D-11.01

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NOV 2020

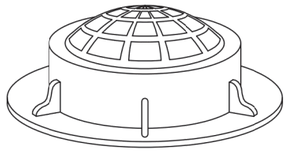
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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NO.	DATE	REVISION

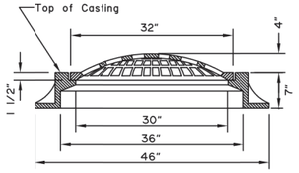
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V5	V34

D-22.01

SHEET | of |

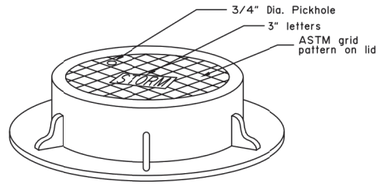


Surround field inlets with a 24" wide rock rubble collar 10" deep, 3" maximum size rock.



FIELD INLET FRAME & GRATE

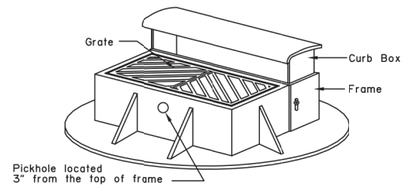
To be supplied for storm drain manholes where field inlets are specified. Field inlet frame and grate shall have a Minimum total weight of 525 lb.



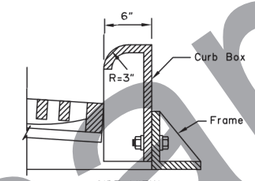
MANHOLE LID FRAME AND GRATE

NOTES:

1. Details shown are to indicate general design only. Dimensions and design may vary among the manufacturers, except that inlet grate shall be within ¼"± of dimensions shown on this drawing.
2. Manhole lids shall be 32" in diameter and may be used with field inlet frames.
3. Type A field inlet frame inside dimensions shall be 24" x 36". Lugs will not protrude outside the concrete surface of the inlet box.
4. Grates shall be bicycle safe. Where high capacity grates are called for on the plans, they shall conform to Std. Dwg. D-25.
5. Frame and grate casting types are identified by the following abbreviations:
   C.I. = Curb Inlet
   F.I. = Field Inlet
   M.H. = Manhole
6. Flowline depression shall conform to Std. Dwg. D-23 for an on grade or sag point conditions.
7. These are the default frames and grates to be used unless shown otherwise on the drainage plans or drainage structure summary.



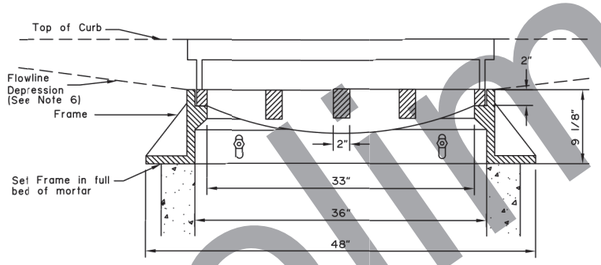
NOTE:
Curb Box, Grate and frame shall have a minimum total weight of 725 lb.



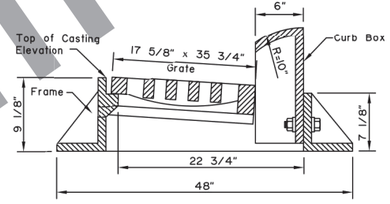
SIDE VIEW
MOUNTABLE CURB AND GUTTER

REQUIRED FRAME AND GRATES
(See Note 7)

STRUCTURE	INLET TYPE	CURB TYPE	TYPE FRAME AND GRATE
INLET BOX, TYPE A	Curb	Mountable	Standard Curb Inlet
	Curb	Expressway	Mountable Curb Inlet
	Curb	Rolled Curb	Depressed Inlet
	Field	------	Field Inlet
STORM DRAIN MANHOLES, TYPE I, II AND III	Curb	Mountable	Mountable Curb Inlet
	Curb	Expressway	Expressway Curb Inlet
	Curb	Rolled Curb	Depressed Inlet
	Field	------	Field Inlet
	Manhole Lids	------	Field Inlet Frame, Solid MH. Lid



FRONT VIEW



SIDE VIEW
EXPRESSWAY CURB AND GUTTER

CURB INLET FRAME AND GRATE

To be supplied for storm drain manholes Type I, Type II and Type III where curb inlets are specified.

NOT TO SCALE

State of Alaska DOT&PF
ALASKA STANDARD PLAN

STORMDRAIN MANHOLE FRAME AND GRATE DETAILS

Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E. Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

Next Code and Standards Review date: 02/08/2029

D-22.01

Preliminary Plans

STANDARD DRAWING
D-22.01

REVIEW PS&E
NOV 2020

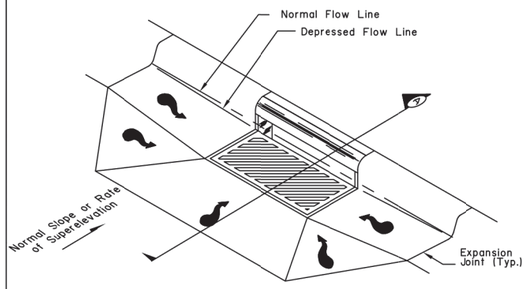
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V5 Thu, Nov/05/20 02:08pm

NO.	DATE	REVISION

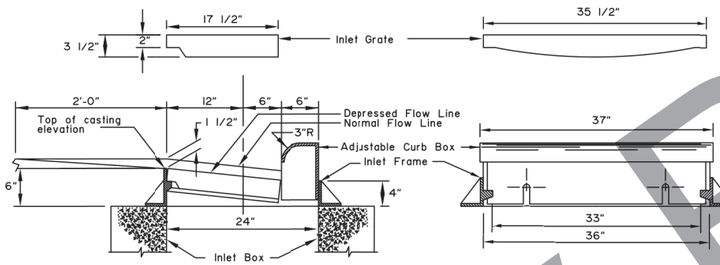
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V6	V34

D-23.01

SHEET | of |



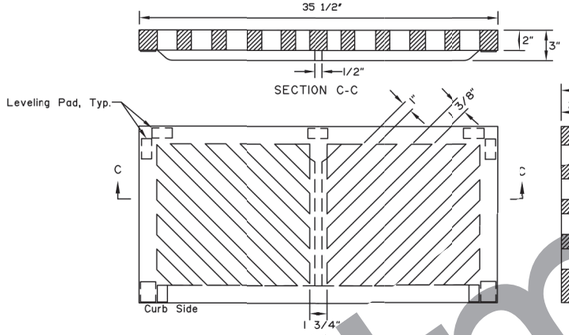
STANDARD CURB INLET INSTALLATION

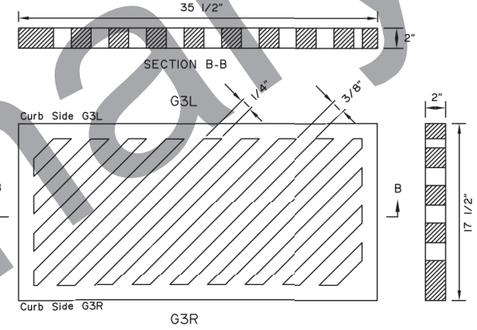


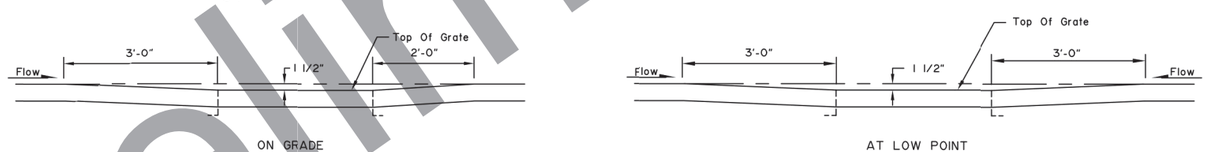
SECTION A

GENERAL NOTES:

1. Details shown are to indicate general design only. Dimensions and design may vary among the manufacturers.
2. Minimum casting weight shall be 330 lbs for Curb Inlet Frame with Curb Box and 200 lbs. for Inlet Grate.
3. The outside dimensions of Inlet Grate shall be 35 1/2" x 17 1/2" and all grates shall be inter-changeable.
4. Minimum drainage area of Inlet Grate shall be 255 square inches.
5. Inlet Grate type G-3R or G-3L shall be used in all cases except where drainage is from both directions, in which case type G-4 shall be used.







DEPRESSION IN FLOW LINE AT INLET CONSTRUCTION DETAILS

NOT TO SCALE

State of Alaska DOT&PF
ALASKA STANDARD PLAN

CURB INLET BOX, FRAME & GRATE

Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E. Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review By: Date:

Next Code and Standards Review date: 02/08/2029

D-23.01

Preliminary Plans

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER

STANDARD DRAWING
D-23.01

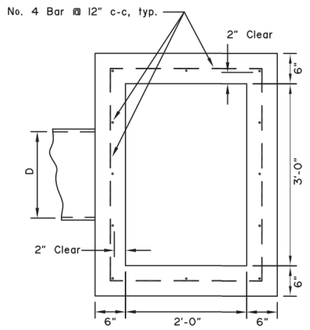
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V6 Thu, Nov/05/20 02:08pm

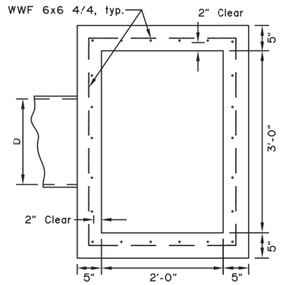
NO.	DATE	REVISION

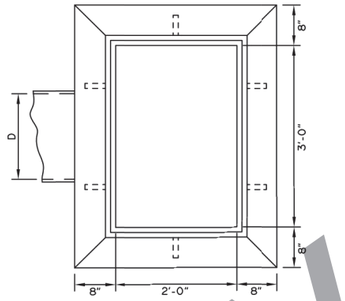
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V7	V34

D-26.04

SHEET | of |

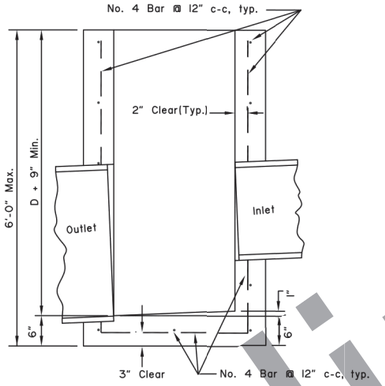




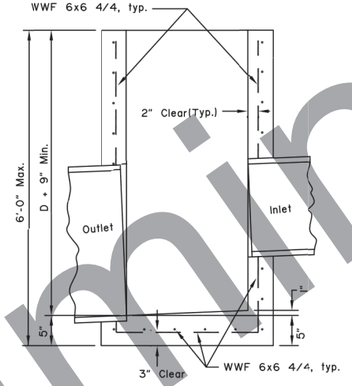


GENERAL NOTES:

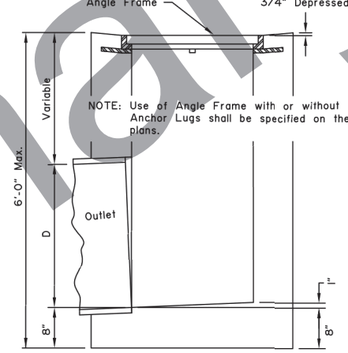
1. Install inlet boxes parallel to the curb line.
2. The plans will indicate which inlet boxes require a sump.
3. Shape floors to drain.
4. Use Grade 40 minimum reinforcing steel.
5. The plans will indicate which inlet boxes require sumps.



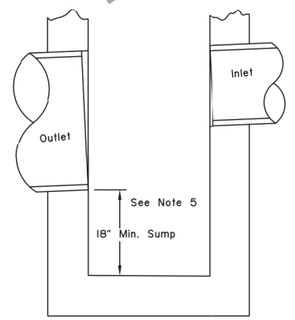
REINFORCED
CAST IN PLACE



PRECAST



FIELD INLET BOX
CAST* IN PLACE



SUMP DETAIL

TYPE "A" CONCRETE INLET BOXES

* May be Precast or Reinforced Cast-In-Place Box.

NOT TO SCALE

State of Alaska DOT&PF
ALASKA STANDARD PLAN

TYPE "A"
INLET BOX

Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E.
Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

Next Code and Standards Review date: 02/08/2029

D-26.04

Preliminary Plans

STANDARD DRAWING
D-26.04

REVIEW PS&E
NOV 2020

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V7 Thu, Nov/05/20 02:08pm

NO.	DATE	REVISION

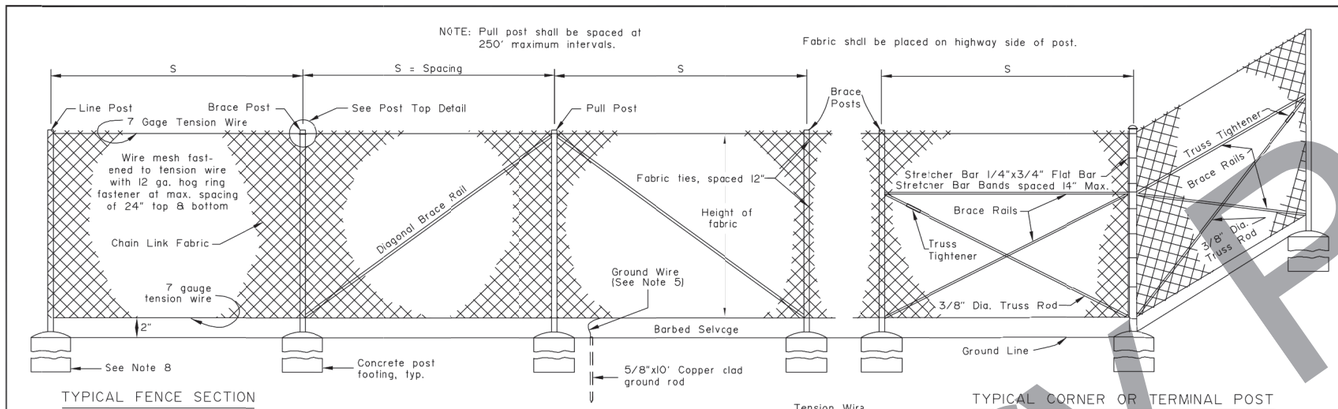
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V8	V34

F-01.04

SHEET 1 of 1

NOTE: Pull post shall be spaced at 250' maximum intervals.

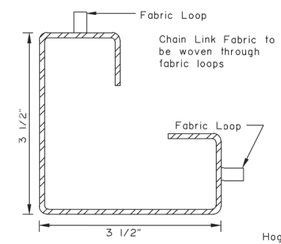
Fabric shall be placed on highway side of post.



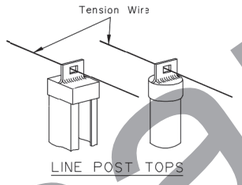
TYPICAL FENCE SECTION

TYPICAL PULL POST

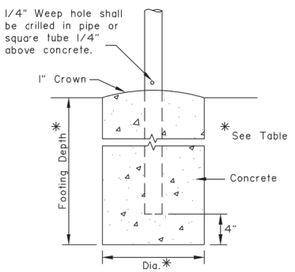
TYPICAL CORNER OR TERMINAL POST



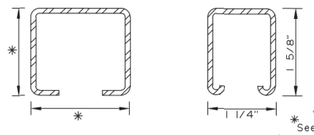
ROLL FORMED POST

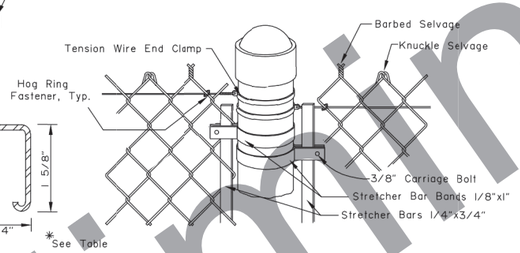


LINE POST TOPS

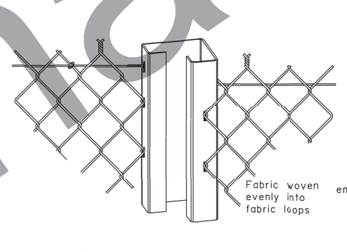


CONCRETE POST FOOTING

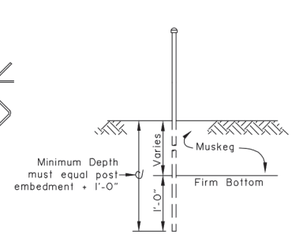




PIPE STYLE POST TOP

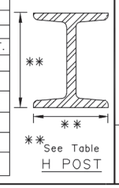


ROLL FORMED POST TOP



POST SETTING IN MUSKEG AREAS

FABRIC HEIGHT	POST								TOP OR BRACE RAIL						ALTERNATE POST	
	END-CORNER-PULL						LINE-BRACE								LINE-BRACE	
	PIPE		SQUARE TUBE		ROLL FORMED	FOOTING	PIPE	C POST	FOOTING		PIPE	ROLL FORMED	H POST		H POST	
	SIZE	WT/FT.	SIZE	WT/FT.	SIZE	WT/FT. DEPTH DIA.	SIZE	WT/FT. SIZE	WT/FT. DEPTH DIA.		SIZE	WT/FT. SIZE	WT/FT.	SIZE	WT/FT.	SIZE	WT/FT.
3'	2"	3.65 #	2" x 2"	4.31 #	3 1/2"x3 1/2"	4.84 # 40" 10"	1 1/2"	2.72 # 1 7/8"x1 5/8"	2.28 # 28" 10"		1 1/4"	2.27 # 1 5/8"	1.35 #	1 1/2"x 1 5/16"	2.27 #	1 7/8"x1 5/8"	2.72 #
4'	"	"	"	"	"	" " "	"	" "	" " "		"	" "	"	"	"	"	"
5'	2"	3.65 #	2" x 2"	4.31 #	3 1/2"x3 1/2"	4.84 # 40" 10"	1 1/2"	2.72 # 1 7/8"x1 5/8"	2.28 # 28" 10"		"	" "	"	"	"	1 7/8"x1 5/8"	2.72 #
6'	2 1/2"	5.79 #	2 1/2"x2 1/2"	5.59 #	3 1/2"x3 1/2"	4.84 # 48" 15"	2"	3.65 # 2 1/4"x1 45/64"	2.64 # 40" 12"		"	" "	"	"	"	2 1/4"x2"	4.1 #
7'	"	"	"	"	"	" " "	"	" "	" " "		"	" "	"	"	"	"	"
8'	2 1/2"	5.79 #	2 1/2"x2 1/2"	5.59 #	3 1/2"x3 1/2"	4.84 # 48" 15"	2"	3.65 # 2 1/4"x1 45/64"	2.64 # 40" 12"		"	" "	"	"	"	2 1/4"x2"	4.1 #



GENERAL NOTES:

1. Use equal pole spacing (S). Maximum pole spacing is 10 feet unless directed otherwise by the Engineer.
2. Securely fasten post tops to post.
3. Securely fasten brace rails and truss rods to post with brace bands.
4. Provide truss rods with a tensioning adjusting mechanism.
5. Attach ground wire to fence fabric with a split bolt.
6. Stretch fabric to a smooth uniform appearance.
7. Details shown indicate general design and dimensions may vary among manufacturers.
8. Set line, pull, corner, and terminal posts in concrete footings unless in muskeg or shown otherwise in the plans.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

CHAIN LINK FENCE

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

F-01.04

Preliminary Plans

STANDARD DRAWING
F-01.04

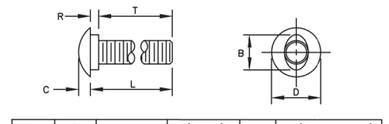
STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V8 Thu, Nov/05/20 02:08pm

NO.	DATE	REVISION

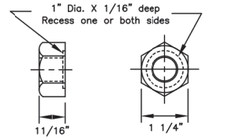
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ALASKA	0610004/Z618720000	2020	V9	V34

G-00.05 SHEET 1 of 5

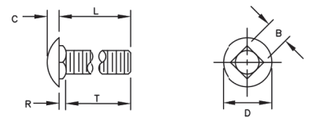


B	C	D	L (Length)	R	T (Thread Length)
15/16"	5/16"	1 5/16" or 1 7/16"	As Required	7/32"	As Required

5/8" BUTTONHEAD BOLT
(FBB01-05)

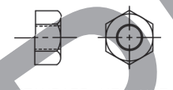


5/8" Dia. RECESSED HEX NUT
(FBB01-05)

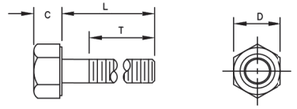


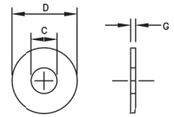
B	C	D	L (Length)	R	T (Thread Length)
5/8"	5/16"	1 5/16"	As Required	3/16"	As Required

5/8" Dia. CARRIAGE BOLT
(FBC10-20)



STANDARD HEX NUT



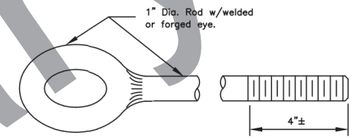


Bolt Size	C	D	L (Length)	T (Thread Length)
5/16"	——	——	1 1/2"	7/8"
5/16"	——	——	1"	1"
3/8"	——	——	7 1/2"	1 1/2"
1/2"	——	——	1 1/2"	1 1/2"
1/2"	——	——	1 1/4"	1 1/4"
5/8" H.S.	5/16"	7/8"	8"	1 1/2"
5/8"-11	——	——	1 1/2"	1 1/2"
3/4"	——	——	1 1/2"	1 1/2"
3/4"	——	——	As Required	2"
3/4" H.S.	15/32"	1 1/4"	2"	1 1/2"

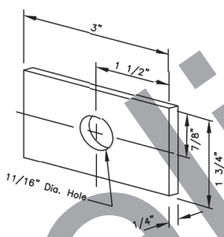
STANDARD HEX BOLTS

For Bolt #	C	D	G
3/8"	7/16"	1"	5/64"
1/2"	17/32"	1 1/16"	3/32"
1/2" H.S.	17/32"	1 1/16"	3/32"
5/8"	11/16"	1 3/4"	9/64"
3/4"	13/16"	1 15/32"	9/64"
3/4" H.S.	13/16"	2"	5/32"
1"	1 1/16"	2"	9/64"

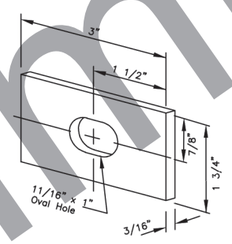
STANDARD STEEL WASHERS



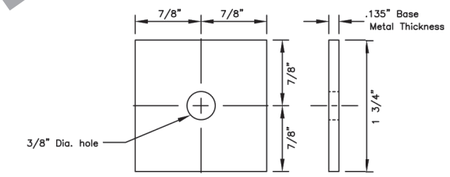
EYE BOLT



FLAT PLATE WASHER



RECTANGULAR POST BOLT WASHER
(FWR03)



SQUARE STEEL WASHER
(FWR01)

GENERAL NOTES:

1. All covered hardware shall comply with the Task Force 13 (TF13) Guide to Standardized Roadsice Safety Hardware online publication. Designctors given when possible in parentheses.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

STANDARD GUARDRAIL HARDWARE
(NUTS, BOLTS & WASHERS)

Adopted as an Alaska Standard Plan by: *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By:KLK Date: 7/8/2020

Next Code and Standards Review Date: 7/8/2030

G-00.05

Preliminary Plans

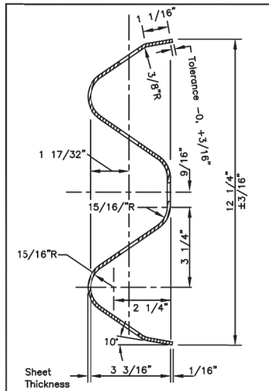
STANDARD DRAWING
G-00.05

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

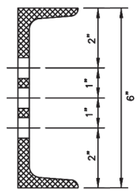
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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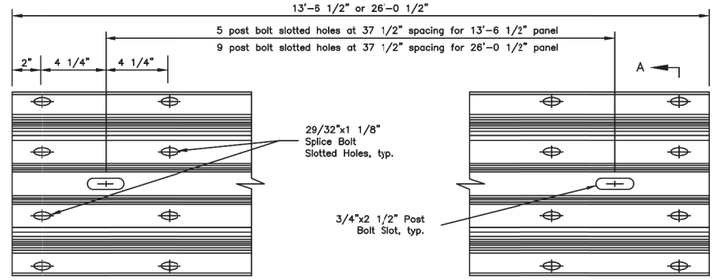
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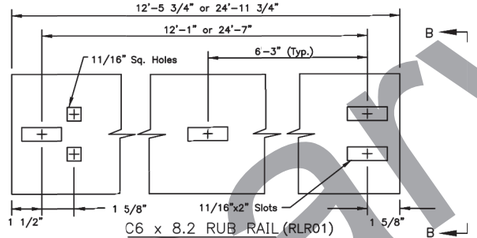
SECTION A–A
(cross section same as RWM02a–b)



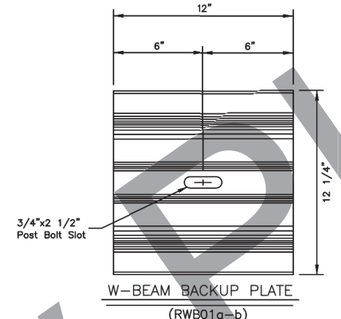
SECTION B–B



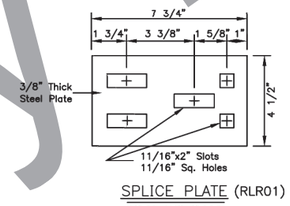
STANDARD W–BEAM PANEL (RWM04a–b)



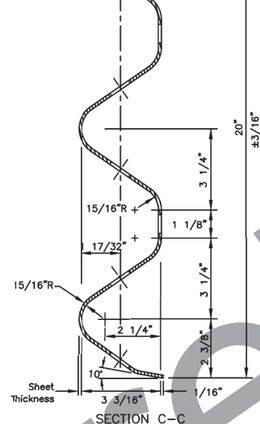
C6 x 8.2 RUB RAIL (RLR01)
ASTM A36 STEEL



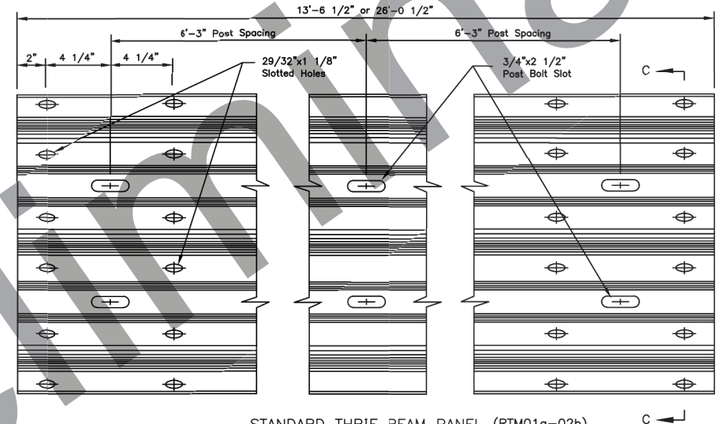
W–BEAM BACKUP PLATE
(RWB01a–b)



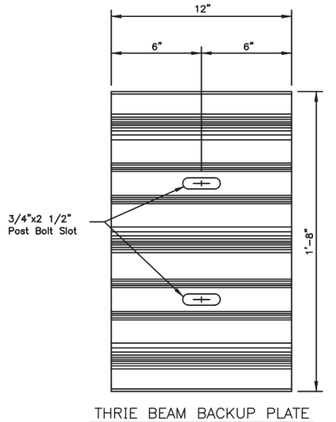
SPLICE PLATE (RLR01)
ASTM A36 STEEL



SECTION C–C
(RTM01a–02b)



STANDARD THRIE BEAM PANEL (RTM01a–02b)



THRIE BEAM BACKUP PLATE
(RTB01a–02b)

G-00.05

SHEET 2 of 5

GENERAL NOTES:

1. All covered hardware shall comply with the Task Force 13 (TF13) Guide to Standardized Roadside Safety Hardware online publication. Designators given when possible in parentheses.
2. Install back–up plates between blockouts and w–beam or thrie–beam rail at intermediate (non–splice) posts when steel blockouts are used but not with wood, rubber, plastic, or other approved blockouts.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

STANDARD GUARDRAIL HARDWARE
(RAILS AND SPLICES)

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review By: KLK Date: 7/8/2020

Next Code and Standards Review Date: 7/8/2030

G–00.05

STANDARD DRAWING
G–00.05

REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

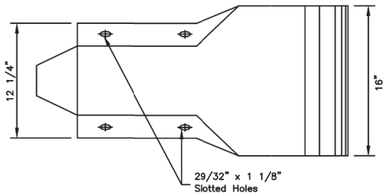
Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522–1707
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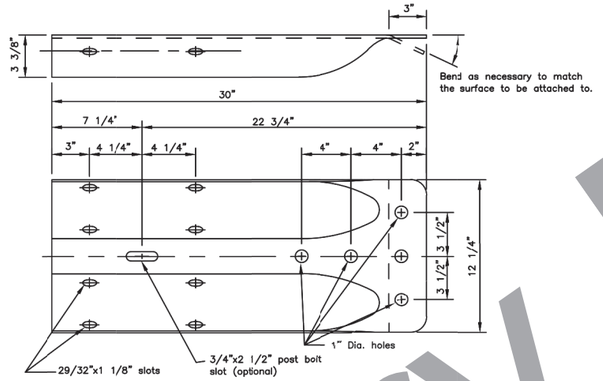
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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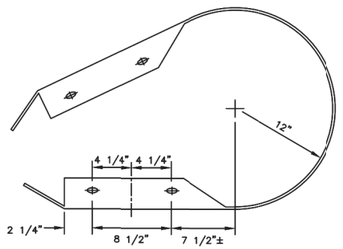
G-00.05 SHEET 3 of 5



PROFILE

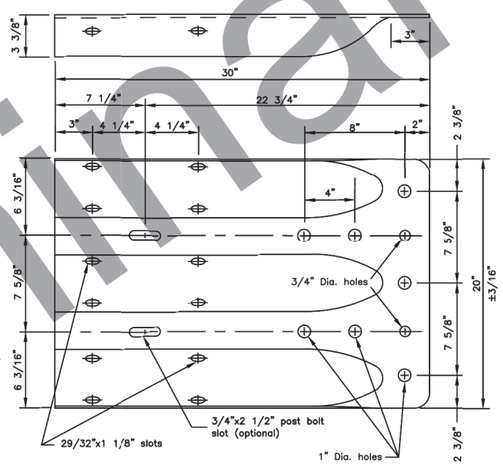


STANDARD W-BEAM TERMINAL CONNECTOR
(RWE02)



W-BEAM PLAN VIEW
*Radius to be specified on the plans

STANDARD W-BEAM END SECTION
(RWE06)



STANDARD THRIE BEAM TERMINAL CONNECTOR
(RTE01b)

GENERAL NOTES:

1. W-Beam and Thrie Beam Terminal Connectors shall conform to AASHTO M 180, Class B, Type II.
2. W-Beam end sections shall conform to AASHTO M 180, Class A, Type II.
3. All covered hardware shall comply with the Task Force 13 (TF13) Guide to Standardized Roadside Safety Hardware online publication. Designators given when possible in parentheses.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

STANDARD GUARDRAIL HARDWARE (TERMINAL CONNECTORS)

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLK Date: 7/8/2020

Next Code and Standards Review Date: 7/8/2030

G-00.05

STANDARD DRAWING
G-00.05

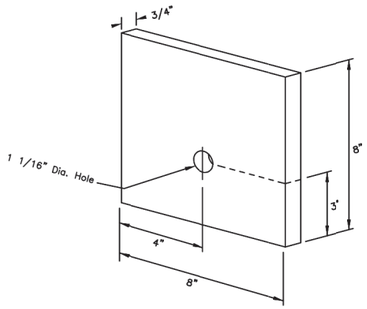
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NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

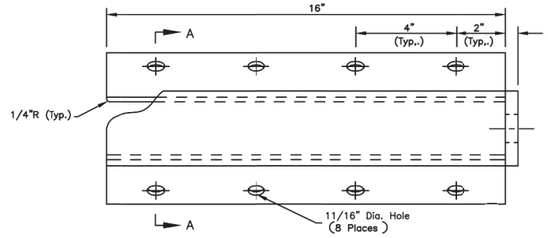
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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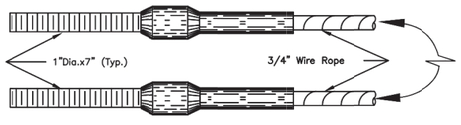
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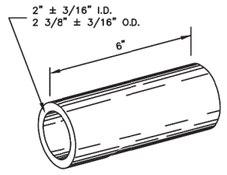
BEARING PLATE for CRT TERMINAL ANCHOR
(FPB01)



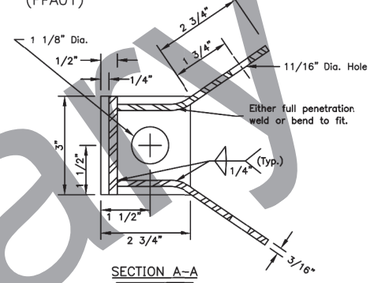
CABLE ANCHOR PLATE
(FPA01)



SWAGED FITTING DETAIL
(FCA01-02)

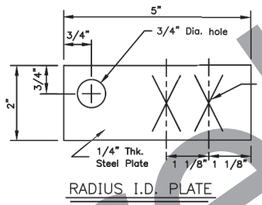


SLEEVE DETAIL
(FMM02)

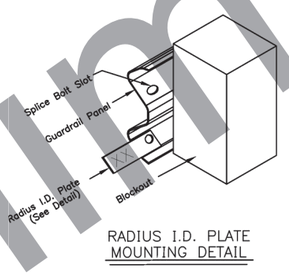


SECTION A-A

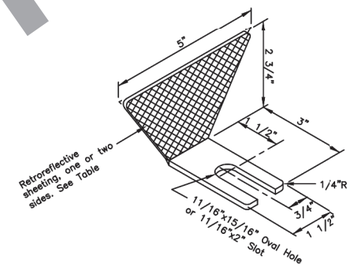
CONTROLLED RELEASE TERMINAL HARDWARE DETAILS



RADIUS I.D. PLATE



RADIUS I.D. PLATE MOUNTING DETAIL



GUARDRAIL REFLECTOR

Guardrail Reflector Table

Type	Color	Reflectorized
A	White	Front & Rear
B	White	Front
C	Yellow	Front
D	Yellow	Front & Rear

G-00.05

SHEET 4 of 5

GENERAL NOTES:

1. Cable Anchor Plate may be formed in single unit or welded fabrication.
2. Anchor Cable Assembly must conform to AASHTO M 30 with Type II Wire Rope.
3. Provide Sleeve for Wood Posts meeting the requirements of ASTM A53 and made of 2-inch galvanized standard pipe. Sleeve shall be a tight, pressed fit in post.
4. Attach radius ID plates to all shop-bent guardrail sections. Bolt the ID plates to the back side of the guardrail panel with the lower splice bolt nearest the P.C. of the radius.
5. Show the Rail bend radius, in feet, as "XX" on the radius ID plate. Digits shall be etched or stamped and have a min. height of 1 1/2" and a max. width of 3/4". Galvanize the plate after the digits are marked.
6. All covered hardware shall comply with the Task Force 13 (TF13) Guide to Standardized Roadside Safety Hardware online publication. Designators given when possible in parentheses.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

STANDARD GUARDRAIL HARDWARE (MISCELLANEOUS)

Adopted as an Alaska Standard Plan by: *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLK Date: 7/8/2020

Next Code and Standards Review Date: 7/8/2030

G-00.05

Preliminary Plans

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G-00.05

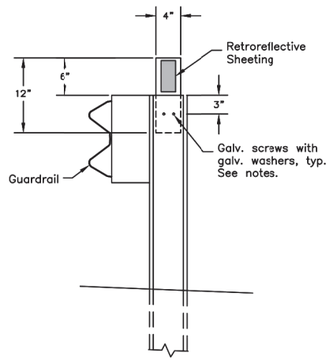
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REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V13	V34

G-00.05 SHEET 5 of 5



GUARDRAIL FLEXIBLE DELINEATOR DETAIL

(Steel post shown – similar for wood post)

CONSTRUCTION NOTES

1. Install guardrail flexible delineators where shown on the plans.
2. Install guardrail flexible delineators at 50 foot spacing, unless otherwise noted on the plans. Install not less than 2 delineators per guardrail run.
3. Use 3" x 5" white/yellow/red retroreflective sheeting as required per Standard Plan T–05. Install retroreflective sheeting on both sides of delineator on two–way roads.
4. Attach 4" x 12" flexible delineators to the top of new guardrail posts, on the trailing side of the posts relative to the adjacent lane's direction of travel.
5. Use 2 each 1/4" dia. x 1–1/2" long galvanized lag screws for attaching to wood posts and 2 each 1/4" dia. x 3/4" long galvanized self–drilling fasteners for steel posts. Install a galvanized washer between the fastener head and the flexible delineator.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

STANDARD GUARDRAIL HARDWARE (FLEXIBLE DELINEATORS)

Adopted as an Alaska Standard Plan by: *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLK Date: 7/8/2020

Next Code and Standards Review Date: 7/8/2030

G–00.05

STANDARD DRAWING
G–00.05

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

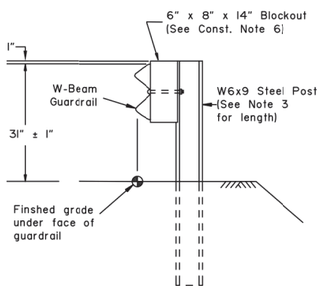
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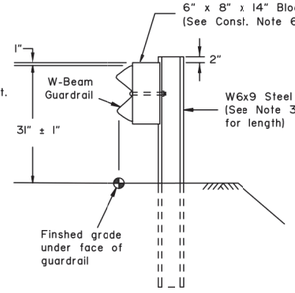
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G-05.11S

SHEET | of |

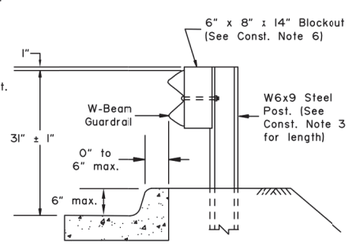


TYPE I POST INSTALLATION

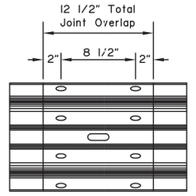


TYPE II POST INSTALLATION

(Facilitates raising rail for future overlays.)

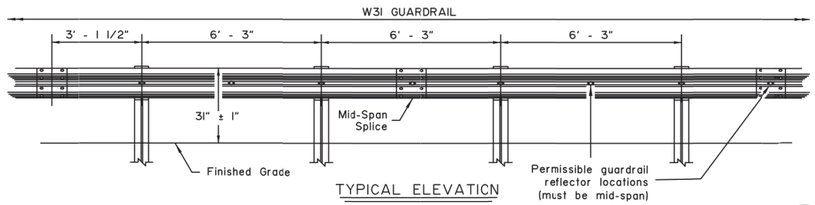


TYPE III POST INSTALLATION

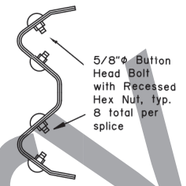


SPLICE DETAIL

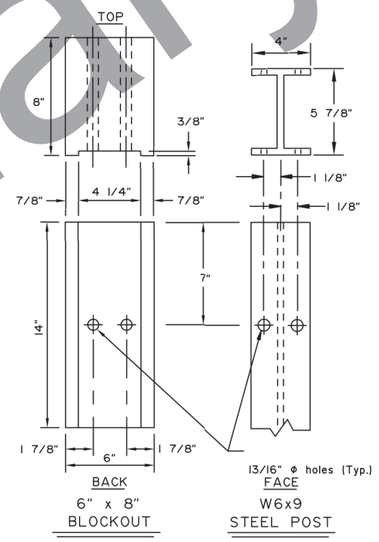
(At mid span between posts only. Bolts not shown for clarity)



TYPICAL ELEVATION

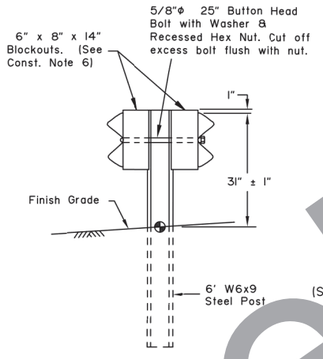


SPLICE CROSS-SECTION



6" x 8" BLOCKOUT

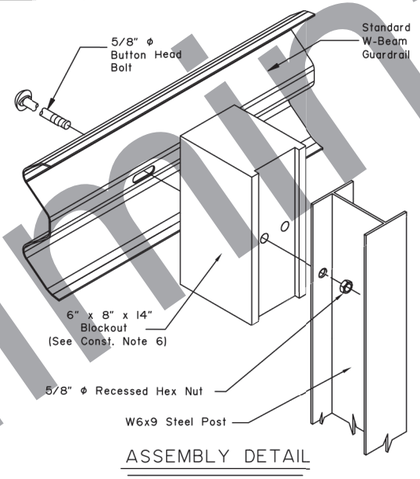
W6x9 STEEL POST



TYPE IV DOUBLE SIDED INSTALLATION

GUARDRAIL REFLECTOR

(See Const. Note 5)



ASSEMBLY DETAIL

(Type I post shown)

CONSTRUCTION NOTES:

1. Provide hardware compliant with the Task Force 13 (TF13) Guide to Standardized Roadside Safety Hardware.
2. See Standard Plan G-00 for hardware details not shown on this drawing.
3. See Standard Plan G-10 for post lengths corresponding to different combinations of slope and behind-post embankment width.
4. Typical post spacing is 6'-3" center to center.
5. Attach guardrail reflector to guardrail using a 5/8" button head bolt with 5/8" recessed head hex nut and steel washer at location shown in the Typical Elevation. Install reflectors every 25' on tangents and every 12.5' on curves starting 100' before the P.C. and ending 100' after the P.T.
6. Use wood or synthetic blockouts designed, tested, and passed per MASH for use with steel posts. Either bolt hole on the blockout may be used for attachment.
7. Use a 25 linear foot transition to match differing height of existing or new rail elements and end treatments - see Standard Plan G-11.
8. W6x8.5 steel post may be substituted for W6x9 steel post.
9. Install flexible delinectors on guardrail posts when called for in the contract. See Standard Plan G-00 for guardrail fexible delineator details.

DESIGN NOTES:

1. No fixed objects allowed within 36" of the back side of guardrail post.
2. This barrier is acceptable under MASH Tests 3-10 and 3-11.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

STEEL POST W31 GUARDRAIL

Adopted as an Alaska Standard Plan by: Carolyn Morehouse

Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 05/15/2019

Last Code and Stds. Review By: LRG Date: 5/15/2019

Next Code and Standards Review date: 5/15/2029

G-05.11S

Preliminary Plans

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REGISTERED PROFESSIONAL ENGINEER

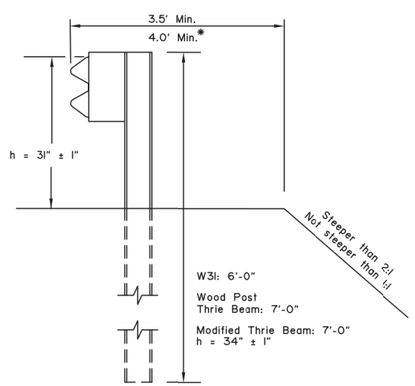
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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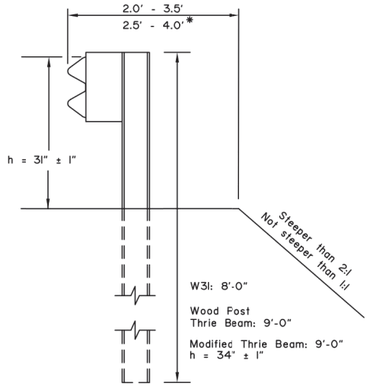
G-10.20

SHEET | of |



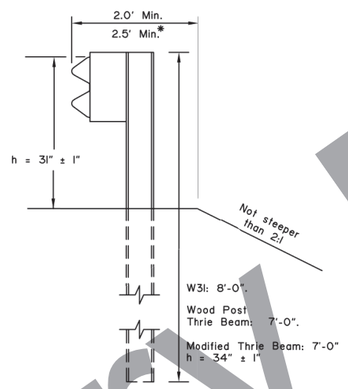
* with Modified Thrie Beam

CASE 1

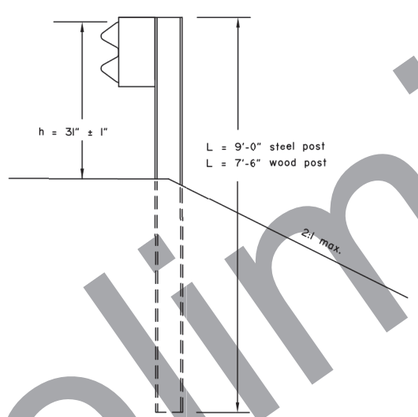


* with Modified Thrie Beam

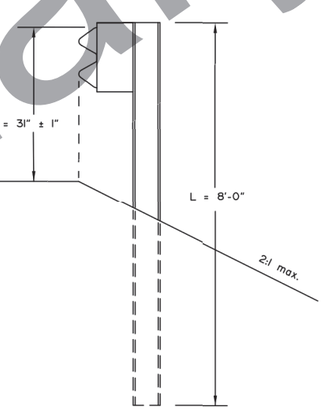
CASE 2



CASE 3



CASE 4
(See Note 5)



CASE 5
(See Note 5)

CONSTRUCTION NOTES:

1. This drawings is to be used for post length determination only. See Plans for slopes and behind-post embankment widths.
2. To determine post length, identify the case that matches site conditions and read the length corresponding to the pertinent guardrail type.
3. These dimensions apply to both curbed and uncurbed section.
4. Case 1, 2 and 3 are shown with steel posts. Wood posts may be substituted when allowed by specifications. Wood Post Thrie Beam installations must use wood posts only.
5. Case 4 and 5 apply to W3I guardrail only.

DESIGN NOTES:

1. No fixed objects allowed within 36" of the back of post for Cases 1, 2 & 3.
2. No fixed objects allowed within 48" of the back of post for Cases 4 & 5.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

GUARDRAIL POST INSTALLATION

Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E. Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review By: Date:

Next Code and Standards Review date: 02/08/2029

G-10.20

Preliminary Plans

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

STANDARD DRAWING
G-10.20

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V15 Thu, Nov/05/20 02:08pm

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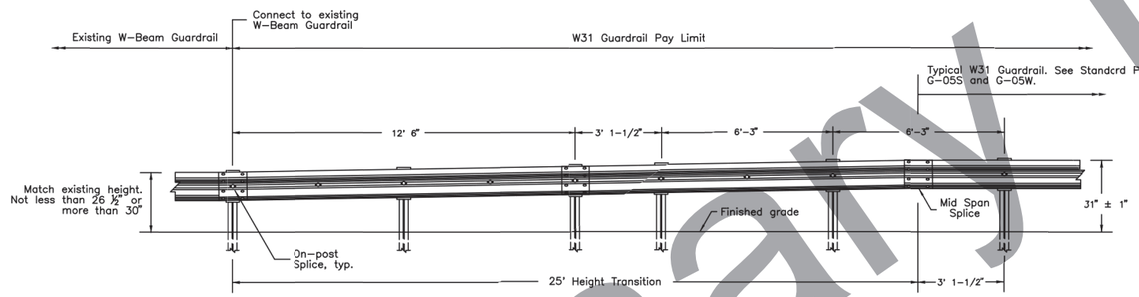
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V16	V34

G-11.01

SHEET 1 of 1

GENERAL NOTES:

1. This drawing illustrates steel post W31 guardrail. Wood posts may be used where noted as applicable to the project.



W31 TO W-BEAM TRANSITION

State of Alaska DOT&PF
ALASKA STANDARD PLAN

W31 GUARDRAIL
TRANSITION DETAILS

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLK Date: 7/8/2020

Next Code and Standards Review Date: 7/8/2030

G-11.01

STANDARD DRAWING
G-11.01

STATE OF ALASKA
REVIEW PS&E
NOV 2020
####
REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

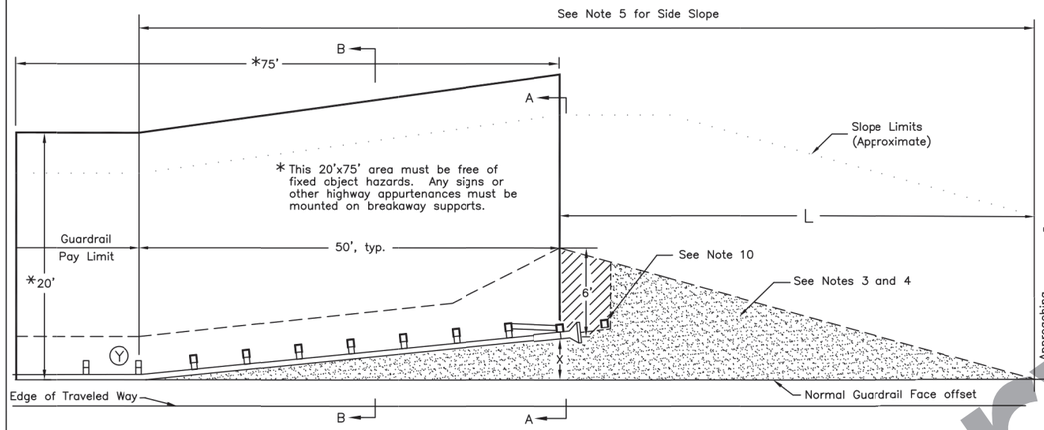
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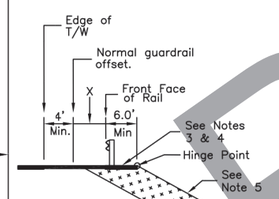
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G-20.12

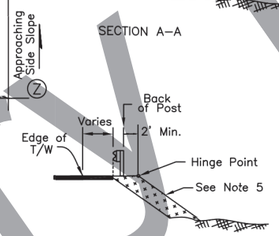
SHEET 1 of 1



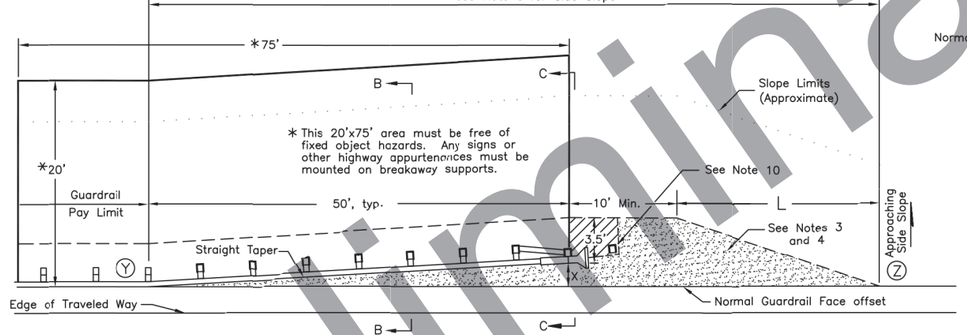
STANDARD GUARDRAIL TERMINAL WIDENING DETAIL



SECTION A–A

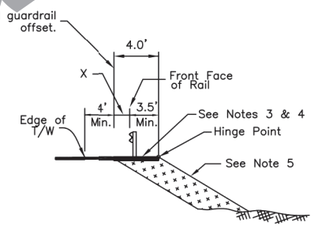


SECTION B–B
(Applies to both details)



ALTERNATE GUARDRAIL TERMINAL WIDENING DETAIL

(USE ONLY WHEN LIMITED RIGHT–OF–WAY OR LIMITING SITE CONDITIONS MAKE THE STANDARD DETAIL INFEASIBLE)



SECTION C–C

X= End offset. See manufacturer's information for the range of acceptable end offsets for each MASH compliant terminal.

Taper Lengths (L) for Common End Offsets (X)

End Offset	Standard Detail	Alternate Detail
0'	24.0'	13.0'
1'	26.0'	17.0'
1.5'	28.0'	19.0'
2'	30.0'	21.0'
2.5'	32.0'	22.0'
4'	37.0'	28.0'

Interpolate if the end offset falls between table values

GENERAL NOTES

1. This Std. Dwg. applies to all MASH approved guardrail end terminals (GETs). The alternate detail may only be used with parallel or tangent GETs. The terminal details shown are for illustration only – see manufacturer's drawings for actual post, rail, strut, etc. configuration and layout.
2. Use this Std. Widening Detail for all GETs except when limited right–of–way or limiting site conditions make the use of the Std. Widening Detail infeasible. In that case, the alternate detail is permissable.
3. Construct the shaded areas to match the slope of the adjacent shoulder. The slope may be increased to 10:1 if identified in the plans or when approved by the engineer. Match the slope when the shoulder slopes toward the road as well as away from the road.
4. On paved roads, the shaded areas shall be paved. On gravel roads, surface the shaded areas with the same materials used to surface the travel lanes.
5. From point Ⓨ to point Ⓩ make the side slope match the approaching side slope except where it is flatter than 4:1. In that case, the slope may be steepened to 4:1.
6. Attach a flexible marker at the beginning of each GET.
7. The max. allowable height for foundation tubes or other steel components of terminal post breakaway systems is 4" above the surrounding grade.
8. The details on this sheet do not apply to W31 Downstream End Anchors (Std Dwg G–14).
9. The details on this sheet apply to GETs on both the approach and downstream ends on two–way undivided roads and to any downstream MASH compliant GETs.
10. Some MASH GET systems have an additional post/anchor at the approximate location shown. If this post/anchor is present do not pave the diagonally hatched area. If not present, pave the diagonally hatched area also.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

WIDENING FOR GUARDRAIL END TERMINALS

Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E. Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review By: Date:

Next Code and Standards Review date:02/08/2029

G–20.12

STANDARD DRAWING
G–20.12

REVIEW PS&E
NOV 2020

Preliminary Plans

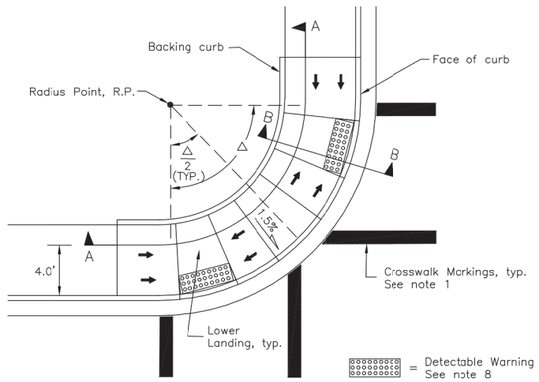
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522–1707
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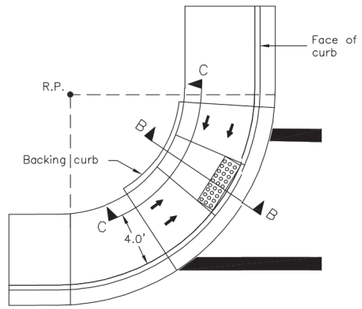
I-21.12

SHEET 1 of 1

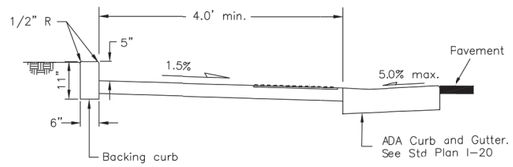


= Detectable Warning Tile See note 8

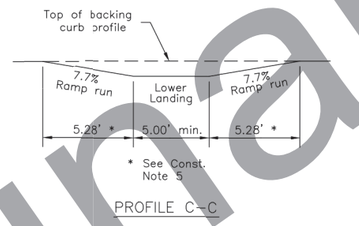
TWO CROSSING DIRECTIONS
At corner



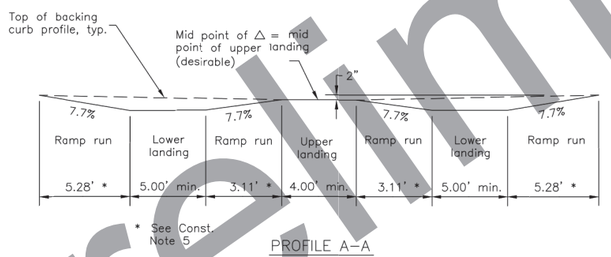
ONE CROSSING DIRECTION
At corner – generic location shown



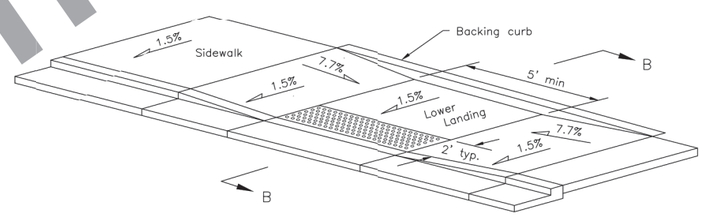
SECTION B-B



PROFILE C-C



PROFILE A-A



MID-BLOCK

Note: Drawing not to scale

CONSTRUCTION NOTES:

1. See plans for ramp type at specific locations. See striping plans for crosswalk layouts.
2. Construct ramp runs and landings of concrete, regardless of whether the sidewalk is asphalt or concrete.
3. When one parallel curb ramp will serve two directions, use the One Crossing Direction detail and refer to the striping plans for crosswalk layouts.
4. Ramp run lengths are shown for a flat sidewalk grade. For other sidewalk grades, increase or decrease ramp and flare lengths to maintain the slopes shown.
5. Construct ramp slopes at a nominal 7.7% grade, or flatter. Ramp slopes may be increased to a maximum of 8.3% when site conditions warrant it. Ramp lengths should be increased to keep grades under the 8.3% maximum, but are not required to exceed 15.0 feet. The resulting ramp grade at a 15.0 foot ramp length is acceptable even if it exceeds 8.3%.
6. Construct sidewalk cross slopes at 1.5% nominal (1.0% min. and 2.0% max).
7. Provide a coarse broomed finish running perpendicular to the curb on ramp runs and upper landings and parallel to the curb on lower landings.
8. Install 24" detectable warning tiles meeting Section 705.1 of the 2006 ADA Standards for Transportation Facilities for the full width of the ramp.
9. Maximum cross slope on lower landings is 2.0% as measured in any direction. Maximum cross slope on ramps is 2.0% measured perpendicular to the ramp run.
10. Provide 4" minimum thick concrete on ramps and landings.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

PARALLEL CURB RAMP

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

I-21.12

Preliminary Plans

STANDARD DRAWING
I-21.12

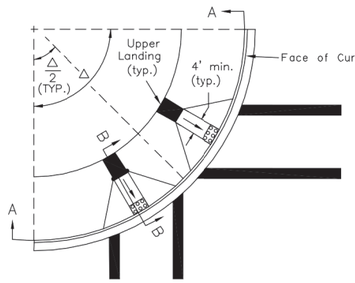
STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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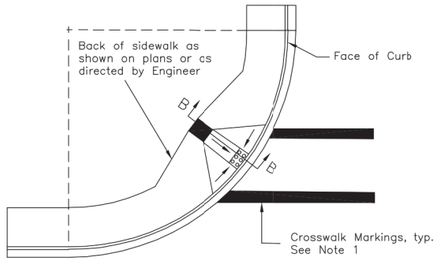
NO.	DATE	REVISION

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I-22.11 SHEET 1 of 1

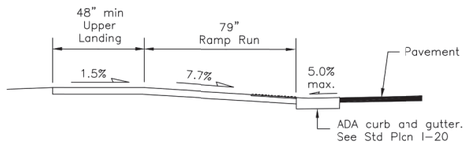


TWO CROSSING DIRECTIONS
At corner

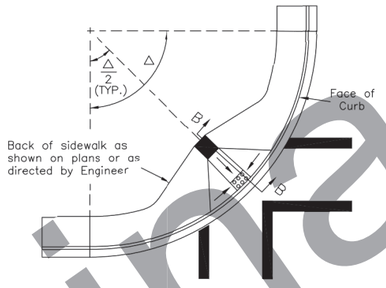


ONE CROSSING DIRECTION
At corner

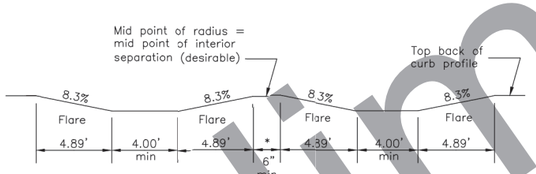
= Detectable Warning Tile See Note 9



SECTION B-B

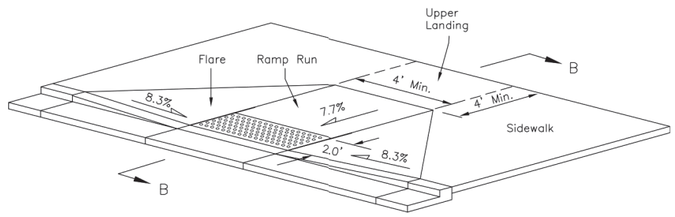


ONE RAMP – TWO DIRECTIONS
At corner



PROFILE A-A

* This dimension is adjustable depending on the curb radius and location of ramps



MID-BLOCK

Note: Drawing not to scale

CONSTRUCTION NOTES

1. See plans for ramp type at specific locations. See striping plans for crosswalk layouts.
2. Construct ramp runs perpendicular to the curb face.
3. Construct ramp runs, flares, and upper landings of concrete, regardless of whether the sidewalk is asphalt or concrete.
4. Ramp run and flare lengths are shown for a flat sidewalk grade. For other sidewalk grades, increase or decrease ramp and flare lengths to maintain the slopes shown.
5. Construct ramp slopes at a nominal 7.7% grade, or flatter. Ramps slopes may be increased to a maximum of 8.3% when site conditions warrant it. Ramp lengths should be increased to keep grades under the 8.3% maximum, but are not required to exceed 15.0 feet. The resulting ramp grade at a 15.0 foot ramp length is acceptable even if it exceeds 8.3%.
6. Construct flare slopes at 8.3% (measured parallel to the curb line adjacent to the top back of curb) or flatter, and sidewalk cross slopes at a nominal 1.5% (1.0% min., 2.0% max). Do not construct flare slopes steeper than 10.0%, or sidewalk cross slopes steeper than 2.0%,
7. Provide a coarse broomed finish running parallel to the curb on ramp runs and flares.
8. When approved by the Engineer, flares may be replaced with a curb at locations where access to the side of a ramp run is blocked by poles, utility boxes, other obstructions, or by a non-accessible surface such as a dirt planter strip. See Standard Plan I-20 for details.
9. Install 24" detectable warning tiles for the full width of the ramp. Provide tiles with truncated domes meeting Section 705.1 of the 2006 ADA Standards for Transportation Facilities.
10. Maximum cross slope on upper landings, measured in any direction, is 2.0%. Maximum cross slope on ramps is 2.0% measured perpendicular to the ramp run.
11. Provide 4" minimum thick concrete on ramps, flares and landings

State of Alaska DOT&PF
ALASKA STANDARD PLAN

PERPENDICULAR CURB RAMP

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

I-22.11

Preliminary Plans

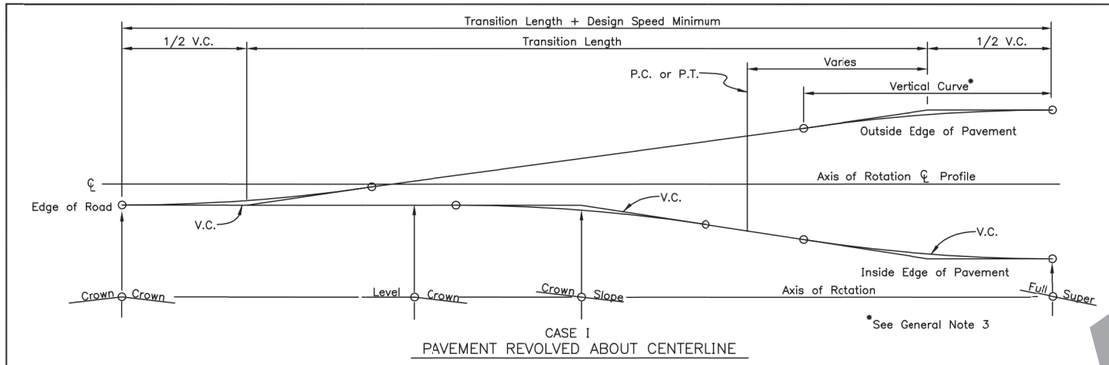
STANDARD DRAWING
I-22.11

STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

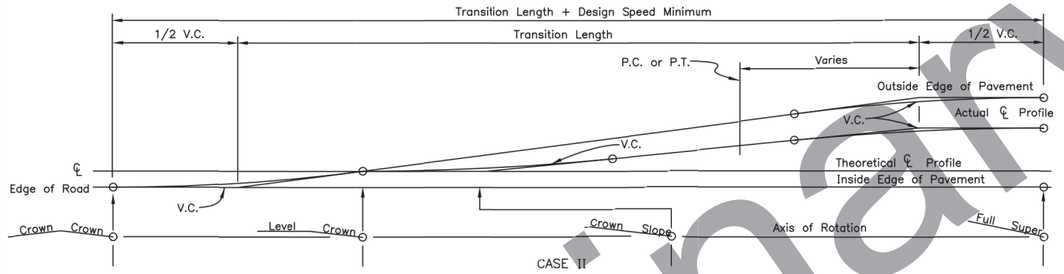
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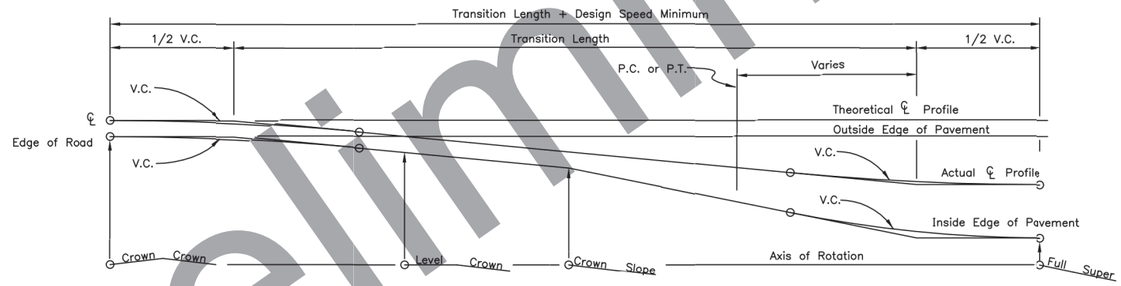
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ALASKA	0610004/Z618720000	2020	V20	V34



CASE I
PAVEMENT REVOLVED ABOUT CENTERLINE



CASE II
PAVEMENT REVOLVED ABOUT INSIDE EDGE
TO BE USED WHERE DRAINAGE IS THE GOVERNING CONSIDERATION



CASE III
PAVEMENT REVOLVED ABOUT OUTSIDE EDGE TO BE
USED WHERE OVERALL APPEARANCE IS THE MAIN CONTROL

I-81.00

SHEET 1 of 1

GENERAL NOTES:

1. Location of transition length relative to horizontal curves will be shown on the plans or as directed by the Engineer.
2. Widening for guardrail or curvature will not change the location of the axis of rotation.
3. Minimum vertical curve length in feet shall be the numerical value of the design speed in M.P.H.
4. Superelevation shall be built into the subgrade and carried through the shoulders.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

SUPERELEVATION
TRANSITION

Adopted as an Alaska Standard Plan by: *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLK Date: 7/8/2020

Next Code and Standards Review Date: 7/8/2030

I-81.00

STANDARD DRAWING
I-81.00

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

Preliminary Plans

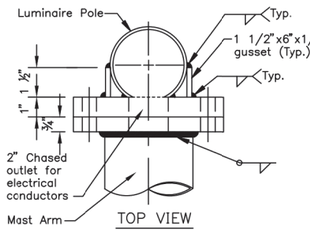
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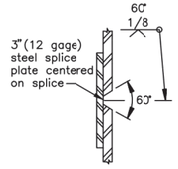
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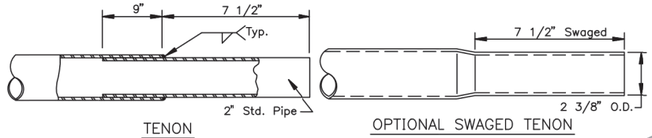
SHEET 1 of 1



TOP VIEW



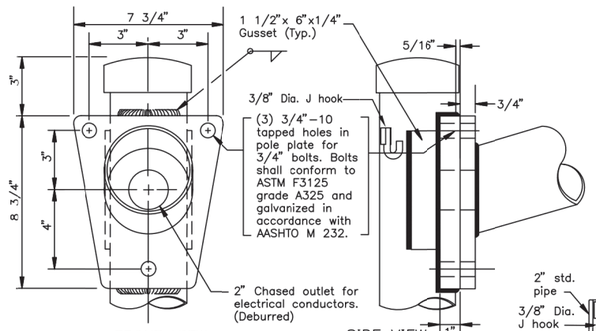
SPLICE DETAILS



TENON

OPTIONAL SWAGED TENON

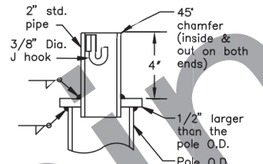
END OF MAST ARM DETAIL



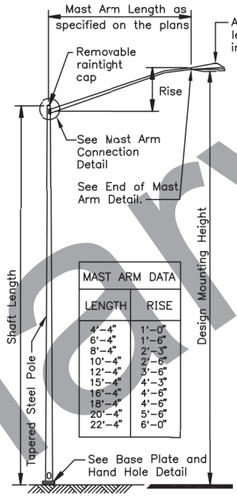
FRONT VIEW

SIDE VIEW

MAST ARM CONNECTION DETAIL

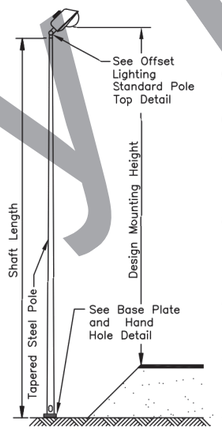


OFFSET LIGHTING STANDARD POLE TOP DETAIL
(CUTAWAY FOR CLARITY)

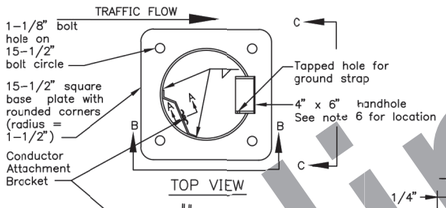


MAST ARM DATA	
LENGTH	RISE
4'-4"	1'-0"
6'-4"	1'-6"
8'-4"	2'-0"
10'-4"	2'-6"
12'-4"	3'-0"
15'-4"	3'-6"
16'-4"	4'-3"
18'-4"	4'-6"
20'-4"	5'-6"
22'-4"	6'-0"

ELECTROLIER ELEVATION
COBRA HEAD

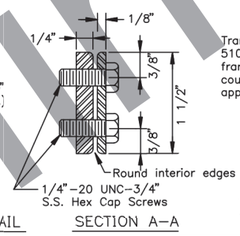


ELECTROLIER ELEVATION
OFFSET

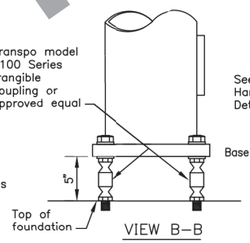


TOP VIEW

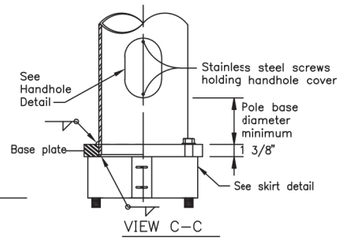
BASE PLATE AND HAND HOLE DETAIL



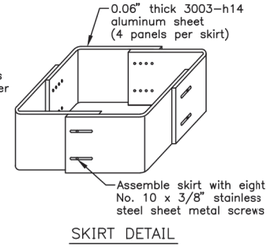
SECTION A-A



VIEW B-B



VIEW C-C



SKIRT DETAIL

GENERAL NOTES

1. Design and fabricate all shafts to support a mast arm 22' long with luminaire. Assume each offset fixture weighs 60 lbs. and has an effective projected area of 2.8 SF. Assume each Cobra head weighs 55 lbs. and has an effective projected area of 1.2 square feet. With this dead load, limit the angular rotation of the pole top to 1° 40' maximum.
2. Weld size to be determined by manufacturer.
3. Mounting height, if specified in the plans, refers to the height of luminaire above the finished roadway surface. Adjust each pole's shaft length to maintain this difference in elevation whenever slope and/or offset varies.
4. Minimum outside diameter at the top of pole equals 3-7/8". Pole diameter shall taper uniformly from the top of pole to the base plate, with a maximum taper rate of 0.15" per foot.
5. Mast arm rise may vary ±0.5ft from the values listed in the table.
6. Locate the handhole at 90 degrees to the mast arm on the side of pole downstream from traffic flow.
7. Furnish all poles with a j-hook to support the illumination tap conductors. Furnish all mast arm poles with a removable raintight cap.
8. Frangible couplings shall be NCHRP 350, Test Level 3 compliant and installed in accordance with the manufacturers written instructions. A MASH compliant device does not exist at this time. See SPDR for more info.
9. Frangible couplings shall be installed into flush mounted female anchors so that no fixed hardware extends above the foundation top.
10. Install all components of the breakaway support system in accordance with the manufacturer's written instructions.
11. Fabricate the skirt from four pieces of 0.06" thick 3003 h-14 aluminum sheet. Bend each plate to provide corners with a 3/4" radius. Assemble the skirt with #10 x 3/8" self tapping stainless screws or pop rivets. The assembled skirt measures about 12-7/8" square.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

LIGHTING STANDARDS

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review By: KLK,MJM Date: 7/8/2020

Next Code and Standards Review Date: 7/8/2030

L-03.11

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V21 Thu, Nov/05/20 02:09pm

STANDARD DRAWING
L-03.11

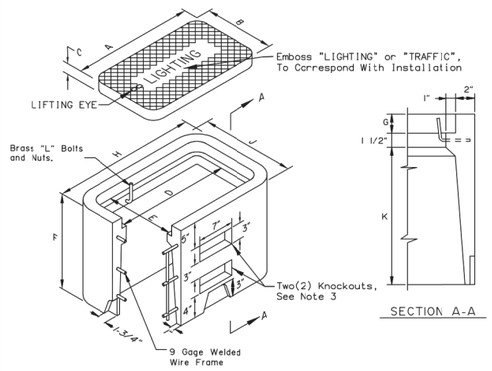


NO.	DATE	REVISION

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L-23.02

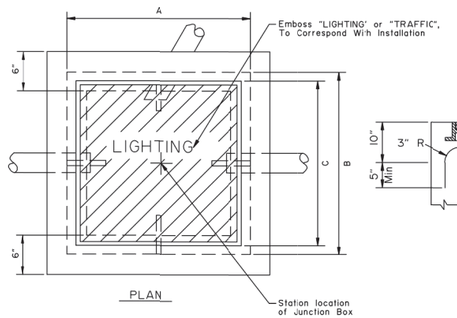
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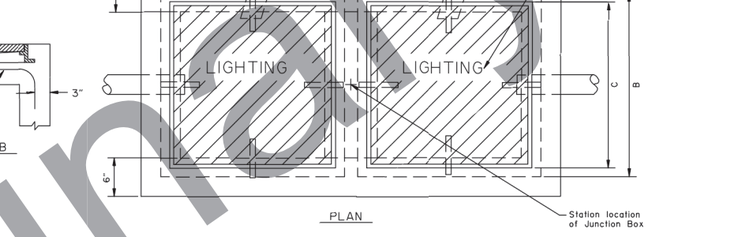
TYPE I & IA JUNCTION BOX

	DIMENSIONS (IN)	
	TYPE	TYPE IA
A	15	22 3/4
B	10	13 1/4
C	1 3/4	2
D	13 1/2	21 1/4
E	8 1/2	11 3/4
F	12	18
G	1 3/4	2
H	19 1/2	27 1/4
J	14 1/2	17 3/4
K	8 3/4	14 1/2

	DIMENSIONS (IN)		
	TYPE II	TYPE III	TYPE IV
A (Max)	30	30	30
B (Max)	30	30	36
C (Min)	22	22	30
D (Min)	22	22	24
E (Min)	24	24	30



TYPE II JUNCTION BOX



TYPE III & IV JUNCTION BOX

GENERAL NOTES:

1. See Alaska DOT&PF Standard Specifications for Highway Construction and Standard Plan Development Report (SPDR) for additional requirements.
2. Construct junction boxes using grade 60 reintorcing steel conforming to ASTM A615 and Class A concrete conforming to section 501 of the specifications.
3. Provide knockouts indicated in Type IA junction box when installed for loop detection. Conduit for loop detectors to enter junction box through knockouts.
4. Covers for junction boxes shall be cast iron. Type I & IA shall be secured to junction box with a minimum of two bolts and be rated ANSI/SCTE 77, Tier 8, minimum. Type II, Type III & Type IV cover shall weigh over 100 pounds and be ANSI/SCTE77, AASHTO H-20 traffic rated.
5. The minimum required bearing capacity for Type I shall be 6,800psf, for Type IA shall be 5,100psf, for Type II shall be 3,500psf, for Type III shall be 2,300psf, and for Type IV shall be 2,000psf.
5. See section 703-2.10 of the specifications for stone drain material requirements.
7. See section 660-3.04 of the specifications for top of junction box placement to finished grade requirements.
8. Provide conduits as required, size and quantity indicated in plans.
9. Provide grout around conduits in knockouts and for unused knockouts.
10. Provide a 1/2" thick preformed bituminous joint material around junction boxes installed in concrete walkways.
11. Metal conduits and junction box covers shall be bonded together to be electrically continuous using No. 8 AWG minimum copper bonding conductor. Cover shall be bonded using a tinned copper braided bonding jumper.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

JUNCTION BOXES
FOR ELECTROLIER
& TRAFFIC SIGNALS

Adopted as an Alaska Standard Plan by: _____
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: CNH Date: 7/15/2020

Next Code and Standards Review date: 7/15/2030

L-23.02

Preliminary

STANDARD DRAWING
L-23.02

REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V22 Thu, Nov/05/20 02:09pm

NO.	DATE	REVISION

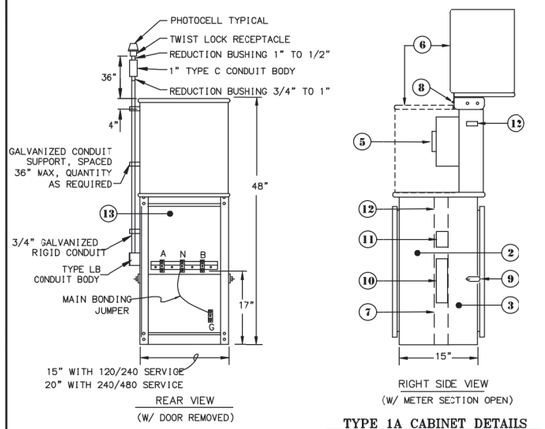
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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L-25.01

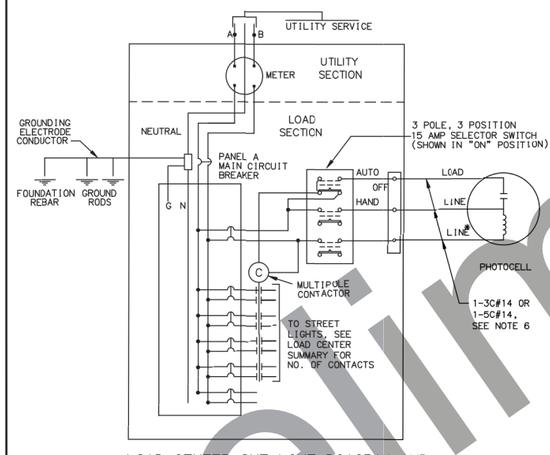
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EQUIPMENT LEGEND/DESCRIPTION

1. METERING SECTION
2. LOAD SECTION
3. UTILITY CONNECTION AND TEST BLOCK SECTION
4. METER READING WINDOW (8"X8")
5. METER SOCKET W/BYPASS & SAFETY SOCKET
6. LIFT AWAY METER SECTION COVER
7. DEADFRONT
8. STAINLESS STEEL PIN HINGE
9. PADLOCKING PROVISIONS
10. DISTRIBUTION PANEL
11. MAIN CIRCUIT BREAKER
12. ACCESSORY EQUIPMENT MOUNTING AREA FOR CONTACTOR, SELECTOR SWITCHES, TERMINAL STRIPS, AND SO ON.
13. SERVICE PULL SECTION
14. SELECTOR SWITCH
15. ENCLOSURE HEATER



TYPE 1A CABINET DETAILS

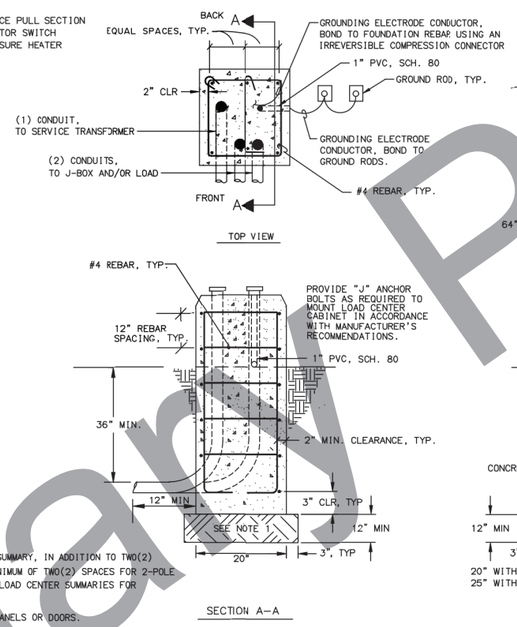


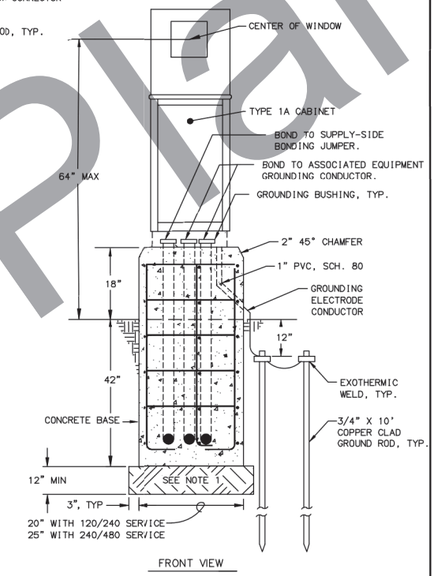
LOAD CENTER ONE LINE DIAGRAM AND SELECTOR SWITCH WIRING

* GROUNDED NEUTRAL, IF SERVICE IS 240/480 VOLT SINGLE PHASE OR 277/480 VOLT THREE-PHASE; AND UNGROUNDED LINE, IF SERVICE IS 120/240 VOLT SINGLE PHASE.

WIRING NOTES:

1. FURNISH ALL EQUIPMENT NOTED IN THE LOAD CENTER SUMMARY, IN ADDITION TO TWO(2) 20-AMP, 2-POLE SPARE CIRCUIT BREAKERS, AND A MINIMUM OF TWO(2) SPACES FOR 2-POLE CIRCUIT BREAKERS IN EACH LOAD PANEL. SEE THE LOAD CENTER SUMMARIES FOR ADDITIONAL INFORMATION.
2. METER BASES SHALL NOT BE MOUNTED ON MOVABLE PANELS OR DOORS.
3. MAIN CIRCUIT BREAKER SHALL BE INDIVIDUALLY MOUNTED ABOVE DISTRIBUTION PANEL BUS.
4. LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION. LABEL THE SELECTOR SWITCH "LIGHTING" AND ITS POSITIONS "ON-OFF-AUTO".
5. STORE A SCHEMATIC DIAGRAM, A CIRCUIT DIRECTORY, AND A MATERIALS LIST THAT INCLUDES THE MANUFACTURER'S NAME AND PART/CATALOG NUMBERS, ALL LAMINATED IN PLASTIC, IN A METAL POCKET ATTACHED TO THE INSIDE OF THE LOAD CENTER. INSTALL THE POCKET ON THE LOAD CENTER DOOR, PROVIDING DRAIN HOLES TO PREVENT WATER ACCUMULATION.
6. INSTALL PHOTOCELL TO AVOID HINGED COVER IN ALL POSITIONS AND ORIENT FACING NORTH SKY AND/OR AWAY FROM ARTIFICIAL LIGHT SOURCES THAT MAY INTERFERE WITH CONTROL. IF PLANS CALL TO MOUNT PHOTOCELL AWAY FROM LOAD CENTER, USE 5C#14 CABLE FROM LOAD CENTER TO PHOTOCELL TWIST LOCK RECEPTACLE.
7. SEE DESIGN PLANS AND LOAD CENTER SUMMARIES FOR ADDITIONAL INFORMATION INCLUDING EQUIPMENT LOCATIONS, CONDUCTOR AND CONDUIT REQUIREMENTS. INSTALL PULL LINE IN SERVICE LATERAL AND CAP BOTH ENDS OF CONDUIT. COORDINATE WITH LOCAL ELECTRICAL UTILITY PROVIDER FOR SERVICE REQUIREMENTS.
8. CONDUITS SHALL BE ATTACHED TO LOAD CENTER ENCLOSURE USING A LISTED, GROUNDING TYPE, THREADED CONDUIT HUB.
9. PROVIDE ARC-FLASH HAZARD WARNING LABEL COMPLYING WITH NFPA 70E ON THE ENCLOSURE EXTERIOR.
10. PROVIDE ENCLOSURE HEATER WHEN INDICATED IN PLANS. INSTALL ENCLOSURE HEATER IN SPACE CONTAINING PANELBOARD BUSSING AND LIGHTING CONTACTORS. HEATER TO BE THERMOSTATICALLY CONTROLLED AND HEAT OUTPUT TO BE SIZED ACCORDING TO COMPARTMENT DIMENSIONS. POWER FROM DEDICATED CIRCUIT AND SIZE CIRCUIT BREAKER TO MANUFACTURES RECOMMENDATION.
11. WHEN METAL HALIDE OR MERCURY VAPOR LAMPED FIXTURES ARE USED, PROVIDE A REMOTE BULB THERMOSTAT, SO THAT THE CONTACT CLOSES AND THE LIGHTS TURN ON WHEN THE TEMPERATURE DROPS TO 15° FAHRENHEIT. WIRE THERMOSTAT SO THAT ITS CONTACT IS PARALLEL THE CONTACT IN THE PHOTOELECTRIC CELL.





TYPE 1A LOAD CENTER BASE DETAILS

GENERAL NOTES:

1. SEE ALASKA DOT&PF STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND STANDARD PLAN DEVELOPMENT REPORT (SPDR) FOR ADDITIONAL REQUIREMENTS.

LOAD CENTER BASE NOTES:

1. PROVIDE COMPACTED, NON-FROST SUSCEPTIBLE BACKFILL. MINIMUM REQUIRED BEARING CAPACITY SHALL BE 2000 PSF.
2. CONSTRUCT BASE USING GRADE 60 REINFORCING STEEL CONFORMING TO ASTM A615 AND CLASS A CONCRETE CONFORMING TO SECTION 501 OF THE SPECIFICATIONS.
3. IF THE BASE IS PRECAST, INSTALL TWO 3/4" FERRULE LOOP INSERTS IN TWO SIDES OPPOSITE ONE ANOTHER FOR LIFTING.
4. ALL BASE REBAR TO BE BONDED TOGETHER TO BE ELECTRICALLY CONTINUOUS.
5. PROVIDE ANCHOR BOLTS OR EXPANSION ANCHORS IN THE BASE FOR MOUNTING THE CABINET PER THE MANUFACTURER'S SHOP DRAWINGS. ANCHOR BOLTS, NUTS, AND WASHERS SHALL CONFORM TO EITHER ASTM OR A449 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. A307 CLEARANCE BETWEEN EDGE OF ANCHOR AND BEGINNING OF CHAMFERED EDGE TO BE A MINIMUM OF 2".
6. GRADE AWAY FROM THE BASE WITH A MINIMUM SLOPE OF 3%. USE A PRE-MOULDED BITUMINOUS JOINT BETWEEN THE BASE AND CONCRETE SIDEWALK OR PAVING, WHEN ADJACENT TO A SIDEWALK OR PATHWAY.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

TYPE 1A LOAD CENTER

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review By: CNH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

L-25.01

STANDARD DRAWING
L-25.01

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NOV 2020
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REGISTERED PROFESSIONAL ENGINEER
STATE OF ALASKA

Preliminary Plans

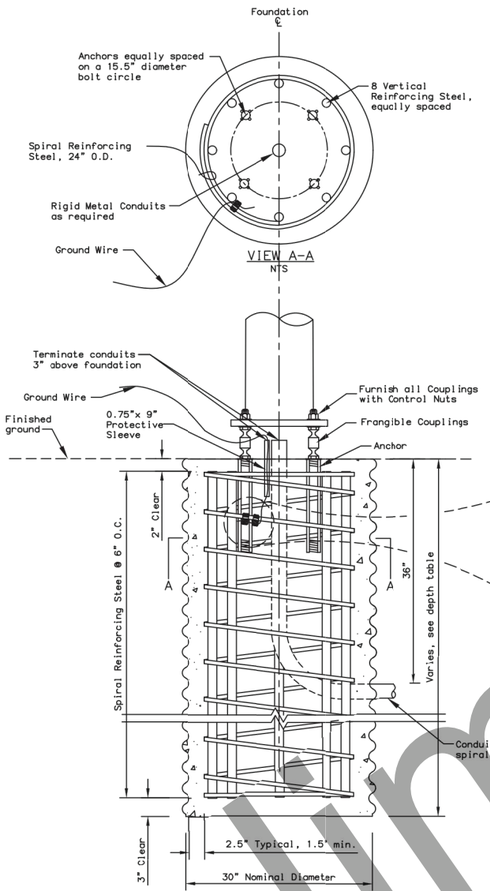
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V24	V34

L-30.11

SHEET 1 of 1

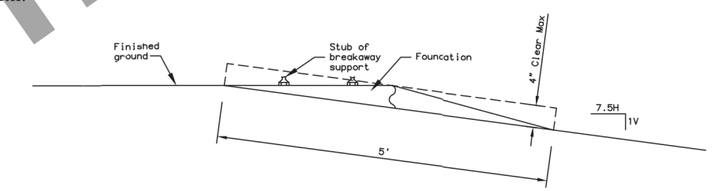


FOUNDATION DETAILS
(Skirt omitted for clarity)

MATERIAL REQUIREMENTS		
Concrete	Class A	f'c = 4000 psi
CMP	AASHTO M218	14 ga.
Vertical Reinforcing Steel	AASHTO M31 #11	GR 60
Spiral Reinforcing Steel	AASHTO M31 #5	GR 60
Ground Wire		#4 AWG
Frangible Coupling and anchor	NCHRP 350 TL3 (See note 11)	Vu = 5.5 kips Tu = 43.2 kips
Conduit	Sch 40	RMC
Protective Sleeve	Sch 40	PVC

DEPTH TABLE		
GRADE	FOUNDATION DEPTH BY APPLICATION (ft.)	
	ELECTROLIER * SEE NOTE 9	BREAKAWAY TRAFFIC SIGNAL
Flat to 6:1	8	6.5
>=6:1 to 3:1	9	7
>=3:1 to 1.5:1	10	8

CONTROLLED LOW STRENGTH MATERIAL MIX DESIGN		
ITEM	BATCHING QUANTITIES PER CYD BATCH (lbs.)	APPLICABLE SPECS.
Portland Cement Concrete	188	701-2.01
Water (52.1 gal.)	435	712-2.01
Fine Aggregate SSD	3041	703-2.01
Admixture: MasterAir AE2000	2.0 oz.	711-2.02
Total	3664	



CLEARANCE DETAIL
(See note 12)

DESIGN NOTES:

Design Standard: 2013 Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals with 2019 interim.

Design Load: 1,000 lbs axial, 2,000 lbs shear, 50,000 ft-lbs moment.

NOTES:

1. This foundation is approved for electrolier and breakaway traffic signal applications in cohesionless soils with an N1-60 value of 10 or greater per AASHTO T-206, "Standard Penetration Test" (SPT). This foundation shall not be used if any of the following are encountered; water table above the bottom of foundation, very loose soils, organic soils, cohesive soils (clay), or soils susceptible to frost jacking. If any of these conditions are encountered, stop foundation work and contact the Engineer.
2. Place foundation in drilled or excavated hole with centerline of foundation located at the station, offset, and elevation specified in plans. Set foundation to satisfy the conditions depicted in clearance detail.
3. Form the foundation in corrugated metal pipe conforming to Subsection 707-2.01 of the Specifications.
4. Provide 1.5 extra turns at each end of the spiral reinforcing steel. Reinforcing steel shall not be spliced. Tie vertical reinforcing steel to each intersection of the spiral reinforcing steel.
5. Connect ground wire near the top of spiral reinforcing steel with two irreversible connectors as shown. Fasten connectors according to the manufacturers' recommendations including the use of manufacturer specified tools. The ground wire may be bare solid, strandec, or braided copper. Protect ground wire with protective sleeve as shown and fill with silicon sealant.
6. Complete all concrete work in conformance with Sections 501, 503, and 660 of the Specifications. Use a tube or tremie with a hopper head or other approved device when dropping concrete more than 5 feet per Subsection 501-3.05. Vibrate concrete during placement by mechanical vibration per Subsection 501-3.06. Ensure anchor threads are protected from contact with concrete during pour.
7. Backfill and compact according to Section 205, and Subsections 203-3.04 and 660-3.01 of the Specifications. Use select material, Type A or controlled low strength material as backfill material. Ensure area below foundation meets compaction requirements and is free of loose material and debris prior to concrete work.
8. Install all anchors according to the manufacturer's written installation instructions. Anchors shall be installed plumb. Anchors greater than 1:40 out-of-plumb will result in foundation rejection.
9. When used for electrolier reduce the foundation depth 1 foot when there is no luminaire arm or the luminaire arm is less than or equal to 12 feet.
10. Grade in depth table refers to fill slopes. If foundation is in a cut slope assume flat grade in table. To determine grade in fill slopes, use the most severe grade found within an 8 foot radius of the center of the foundation.
11. The frangible coupling referenced in this ASP is NCHRP 350 compliant. There is no MASH compliant device available at this time. See SPDR report for more info.
12. Special grading detail and/or shielding may be required to maintain 4" maximum clear distance.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

CONCRETE STREET LIGHT POLE FOUNDATION

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLK,MJM Date: 7/8/2020

Next Code and Standards Review Date: 7/8/2030

L-30.11

Preliminary Plans

STANDARD DRAWING
L-30.11

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REGISTERED PROFESSIONAL ENGINEER

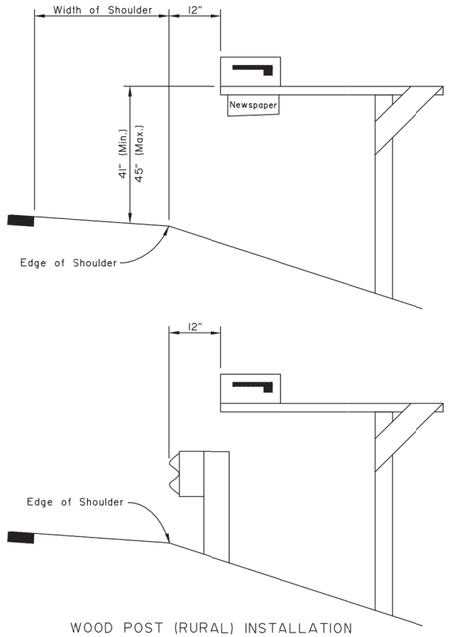
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V25	V34

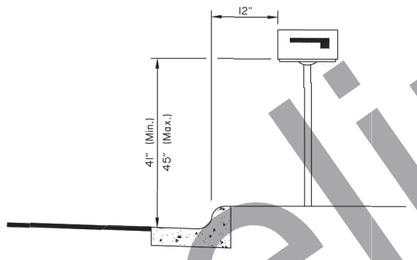
M-20.15

SHEET | of |



WOOD POST (RURAL) INSTALLATION

Single or Double Box



METAL POST (URBAN) INSTALLATION

Single or Double Box

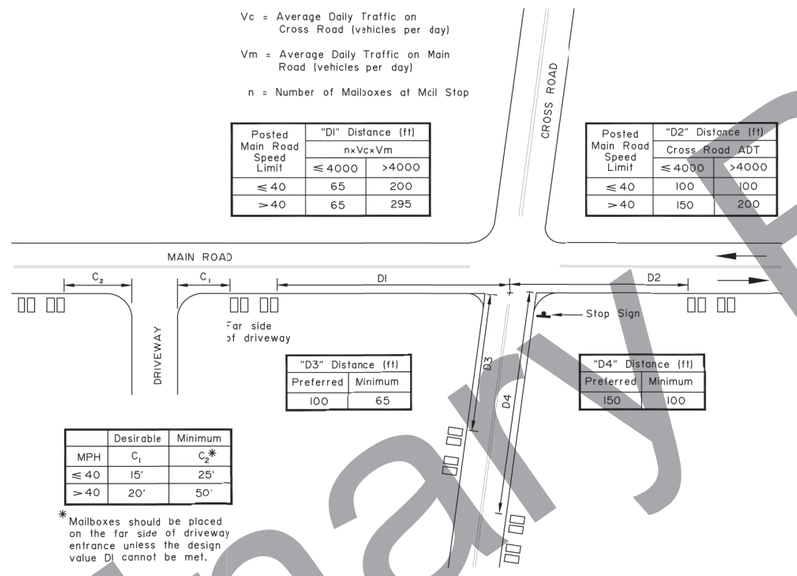
Vc = Average Daily Traffic on Cross Road (vehicles per day)

Vm = Average Daily Traffic on Main Road (vehicles per day)

n = Number of Mailboxes at Mail Stop

Posted Main Road Speed Limit	"DI" Distance (ft) n×Vc×Vm	
	≤ 4000	>4000
≤ 40	65	200
> 40	65	295

Posted Main Road Speed Limit	"D2" Distance (ft) Cross Road ADT	
	≤ 4000	>4000
≤ 40	100	100
> 40	150	200



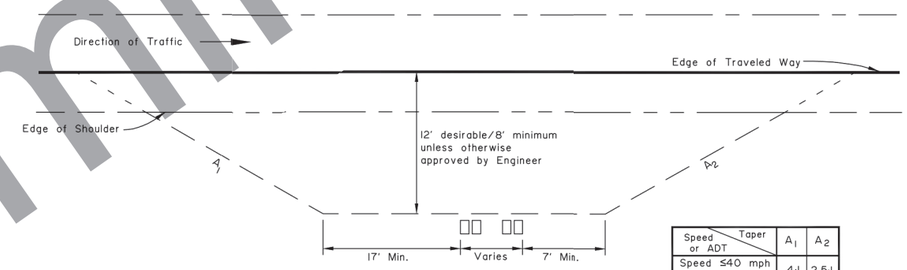
"D3" Distance (ft)	
Preferred	Minimum
100	65

"D4" Distance (ft)	
Preferred	Minimum
150	100

	Desirable	Minimum
MPH	C_1	C_2*
≤ 40	15'	25'
> 40	20'	50'

*Mailboxes should be placed on the far side of driveway entrance unless the design value DI cannot be met.

MAILBOX LOCATION AT INTERSECTIONS AND DRIVEWAYS



TURNOUTS FOR GROUPED BOXES

Speed or ADT \ Taper	A_1	A_2
Speed ≤40 mph and ADT ≤400	4:1	2.5:1
Speed >40 mph or ADT >400	20:1	12:1

TURNOUT TAPERS

GENERAL NOTES:

1. Install mailboxes conforming to U.S. Postal Service requirements.
2. Mailbox supports shall not present a rigid, unyielding impact resistant hazard to road traffic, but shall be flexible and yielding to vehicular impact. Install crashworthy supports in accordance with Standard Plan M-23.
3. Installation shall be on the right side of roadway in the direction of mail carrier travel with the exception of one-way streets where they may be placed on either side.
4. Locate mailboxes to minimize dangers to road traffic, carriers and postal recipients.
5. Provide a minimum shoulder width of 8' unless otherwise approved by Engineer. Install single and double mailbox supports separated by at least 3', and desirably 4', from each other. More than two boxes on a single support is allowable only as shown on Standard Plan M-23.
6. Newspaper receptacles shall conform to the same setback and support regulations as mailboxes. Where newspaper receptacles and mailboxes are to be mounted together, the newspaper receptacle may be mounted beneath the mailbox or on the side of the mailbox support opposite the reflecting marker.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

MAILBOX LOCATION

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

M-20.15

Preliminary Plans

STANDARD DRAWING
M-20.15

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

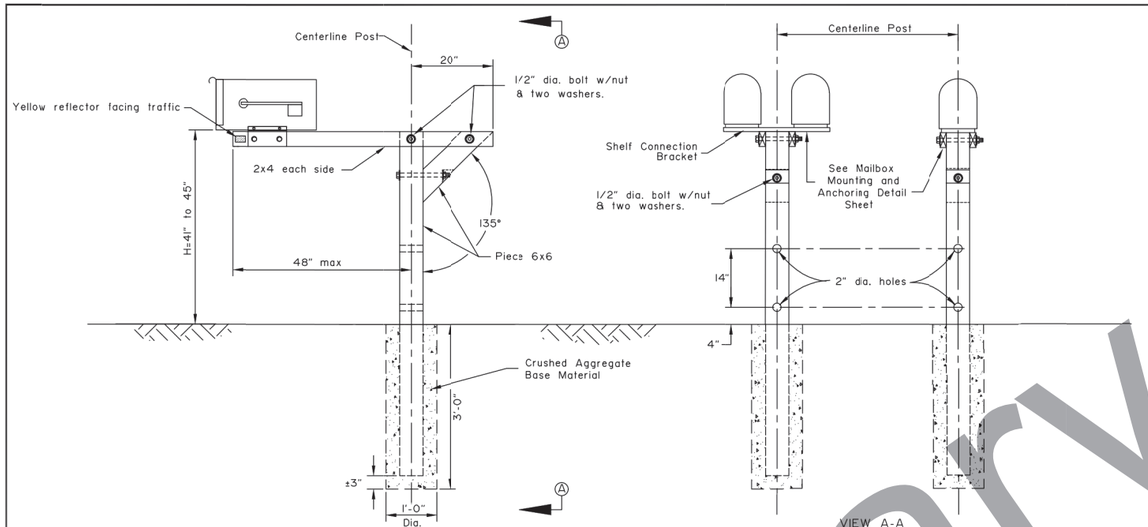
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V25 Thu, Nov/05/20 02:09pm

NO.	DATE	REVISION

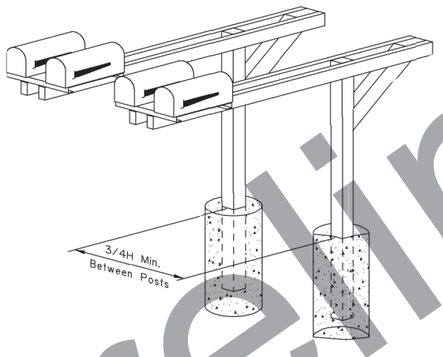
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V26	V34

M-23.13

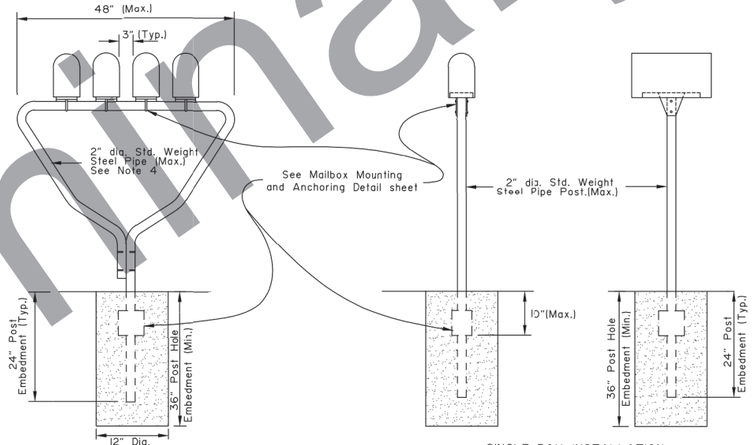
SHEET 1 of 2



TYPICAL WOOD CANTILEVER INSTALLATION



TYPICAL GANG BOX INSTALLATION



MULTIPLE BOX INSTALLATION (U.S.P.S. Approved)

SINGLE BOX INSTALLATION

METAL POST SUPPORTS (URBAN ONLY)

GENERAL NOTES:

1. See Standard Plan M-20 for locating posts and boxes along roadway.
2. Posts shall be 6"x6" Treated Wood Post S4S or 2" (Max.) Standard Weight Steel Pipe.
3. Each support structure shall not accomodate more than two mailboxes unless the support structure conforms to the requirements of the U.S. Postal Service and is approved by the Engineer.
4. Other steel or aluminum structural sections may be used except, the stiffness properties equivalent to the 2" dia. standard weight steel pipe shall not be exceeded.
5. Reflectors shall have a minimum area of 4.5 sq. in.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

MAILBOX INSTALLATION

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

M-23.13

Preliminary Plans

STANDARD DRAWING
M-23.13

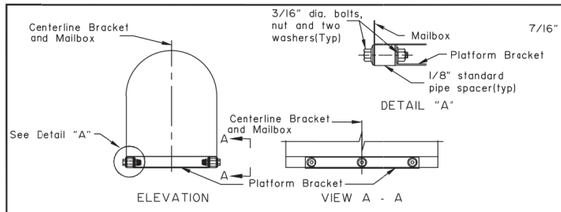
STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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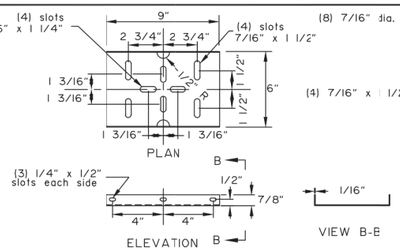
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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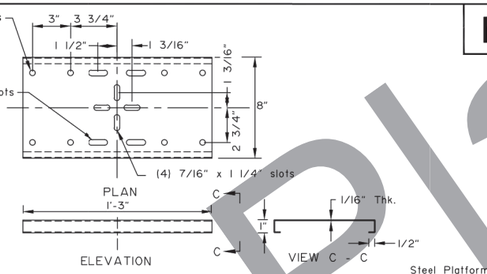
M-23.13 SHEET 2 of 2



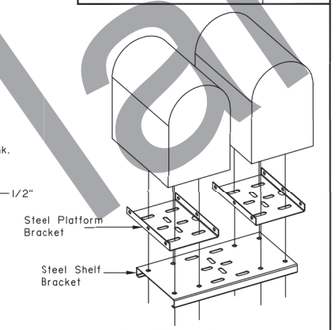
MAILBOX SUPPORT PLATFORM ASSEMBLY



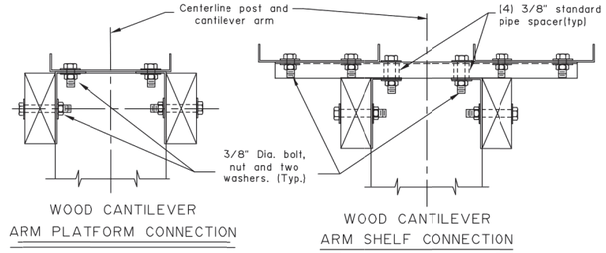
STEEL PLATFORM BRACKET



STEEL SHELF BRACKET

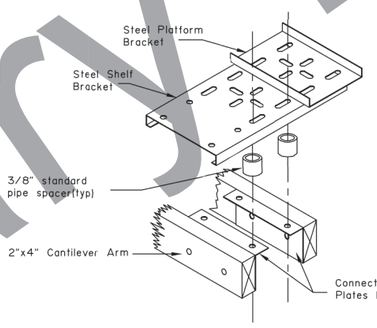


MAILBOX CONNECTION DETAIL

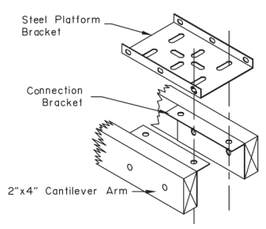


WOOD CANTILEVER ARM PLATFORM CONNECTION

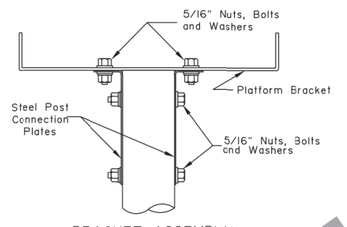
WOOD CANTILEVER ARM SHELF CONNECTION



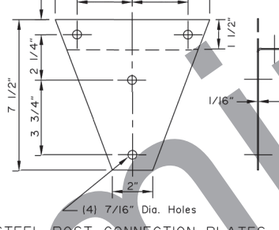
SHELF BRACKET CONNECTION DETAIL



PLATFORM BRACKET CONNECTION DETAIL



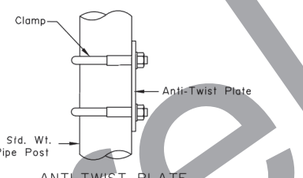
BRACKET ASSEMBLY DETAIL



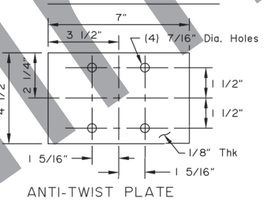
STEEL POST CONNECTION PLATES for STEEL PIPE POST



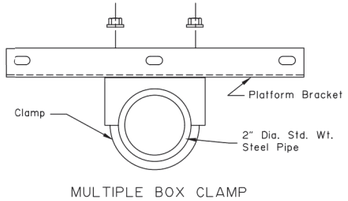
CLAMP



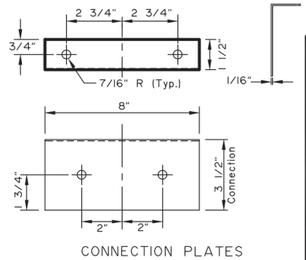
ANTI-TWIST PLATE ASSEMBLY DETAIL



ANTI-TWIST PLATE for STEEL PIPE POST



MULTIPLE BOX CLAMP ASSEMBLY DETAIL



CONNECTION PLATES for WOOD CANTILEVER ARM

State of Alaska DOT&PF
ALASKA STANDARD PLAN

MAILBOX MOUNTING AND ANCHORING DETAILS

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review By: KLH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

M-23.13

Preliminary Plans

STANDARD DRAWING
M-23.13

REVIEW PS&E
NOV 2020
####

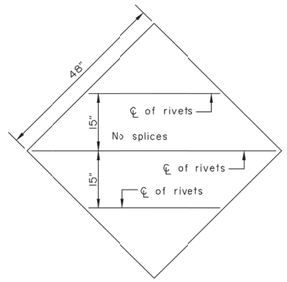
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V27 Thu, Nov/05/20 02:09pm

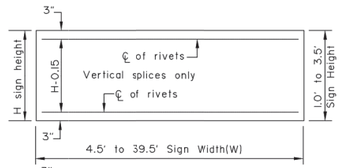
NO.	DATE	REVISION

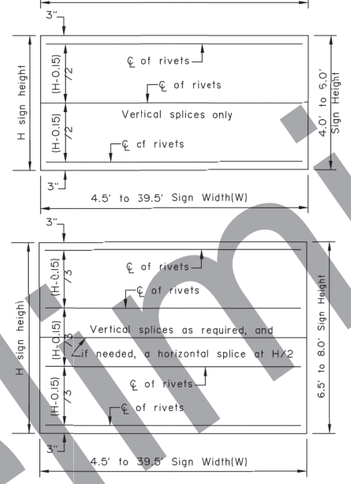
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ALASKA	0610004/Z618720000	2020	V28	V34

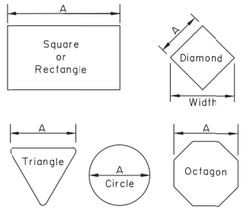
S-00.12

SHEET 1 of 1







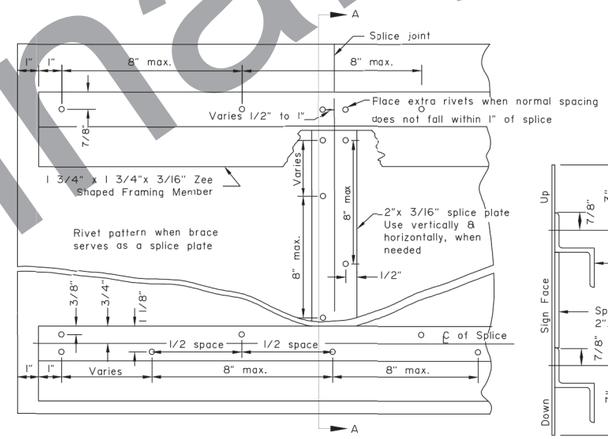


Maximum size unframed signs using 0.125" thick aluminum sheeting.	
Sign Shape	A
Squares, Shields, and Route Markers	48"
Rectangles	48"
Diamonds	48"
Triangles	48"
Rounds and Octagons	48"

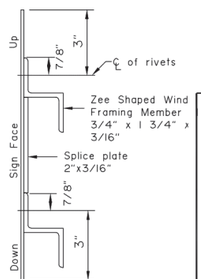
Install wind framing on all signs that exceed the dimensions listed.

LIGHT SIGNS

WIND FRAMING LOCATIONS



RIVET DETAIL FOR ZEE SHAPED WIND FRAMING & SPLICE PLATE



SECTION A-A

GENERAL NOTES

1. See the standard specifications for the aluminum alloys that you may use for sign sheeting and wind framing members.
2. Fabricate all signs from 0.125" thick aluminum sheeting.
3. Sign fabricators may use alternates to the zee shaped framing member, with approval of the engineer, if the frame manufacturer certifies their design equals or exceeds the strength of the zee shaped design.
4. Install one piece wind framing members on all signs up to 23.5' wide. Use one splice in each wind frame on all signs wider than 23.5'. Locate splices at least 18" from all posts and panel edges. Stagger splices in adjacent framing members at least 8.0' apart.
5. Attach wind framing members with rivets or with an engineer approved, double sided, high strength, adhesive tape. Clean and handle sheeting and framing members and apply tape in accordance with the tape manufacturer's written instructions. Install two rivets in both ends of each framing member.
6. Use 3/16" diameter rivets conforming to aluminum alloy 6061-T6 for cold driven rivets, or aluminum alloy 6061-T43 for hot driven rivets.
7. Sign fabricators may use sign panels extruded with integral frcming with approval of the engineer, if the manufacturer certifies their design equals or exceeds the strength of the 0.125" thick panel with framing attached to it.
8. Frame all signs taller than 8.0' with five wind framing members located (H-0.15)/4 spaces. If needed, make a horizontal splice at the middle wind frame.
9. Do not use round pipes for sign supports.

Note: Drawing not to scale

State of Alaska DOT&PF
ALASKA STANDARD PLAN

SIGN FRAMING

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

S-00.12

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V28 Thu, Nov/05/20 02:10pm

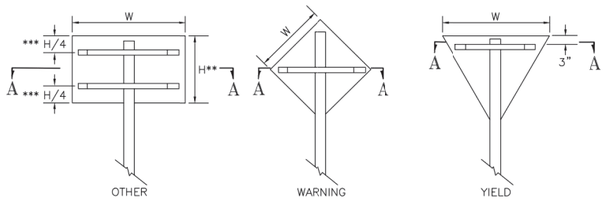
STANDARD DRAWING
S-00.12

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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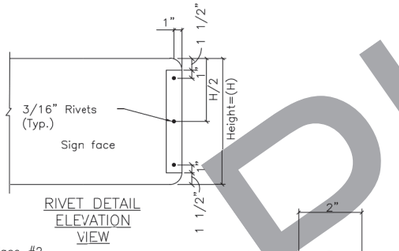
S-01.02 SHEET 1 of 1



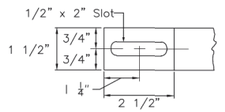
*** Use one brace when H ≤ 18"
Use two braces when 18"< H < 48"
Use three braces when H ≥ 48"

** Position of brace may be varied to match Predrilled mounting holes in panel

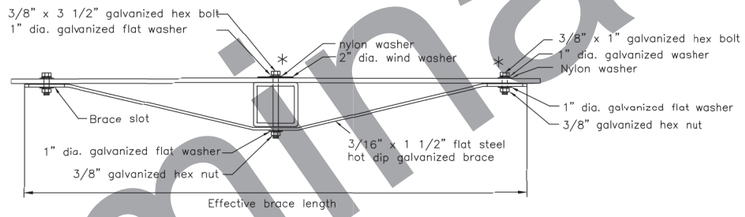
SIGN BRACING PLACEMENT



SMALL STREET NAME SIGN (D3-1, D3-1A, D3-1D) BRACING DETAILS



DETAIL OF BRACE SLOT
Elevation view



TUBE POST SIGN BRACING SECTION A-A
Plan view

* Adjust location of bracing so that bolts and washers will miss the sign legend

Sign Width(W)	Effective Brace Length		
	Warning	Yield	Other
30"	36"	24"	24"
36"	42"	30"	30"
42"	48"	–	36"
48"	Two posts	36"	42"

< 30" No bracing required and use square tube

Note: Drawing not to scale

State of Alaska DOT&PF
ALASKA STANDARD PLAN

BRACING FOR SIGNS MOUNTED ON SINGLE POST

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

S-01.02

Preliminary Plans

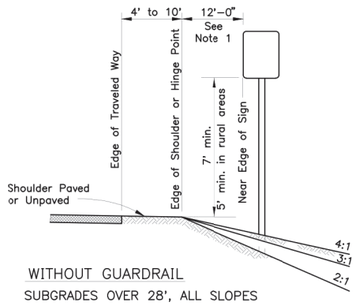
STANDARD DRAWING
S-01.02

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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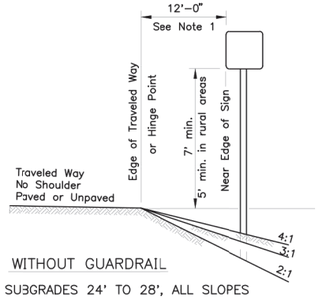
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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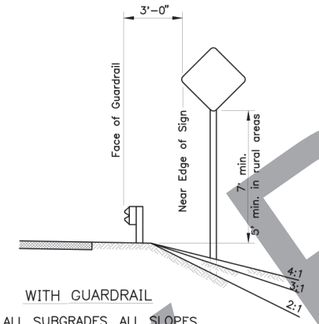
WITHOUT GUARDRAIL

SUBGRADES OVER 28', ALL SLOPES



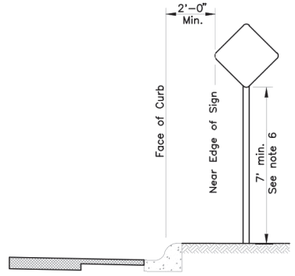
WITHOUT GUARDRAIL

SUBGRADES 24' TO 28', ALL SLOPES

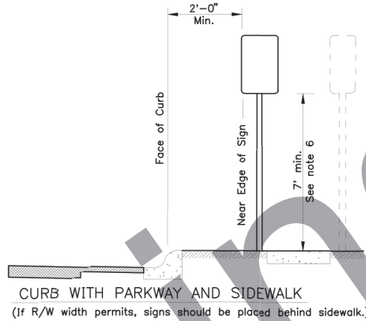


WITH GUARDRAIL

ALL SUBGRADES, ALL SLOPES

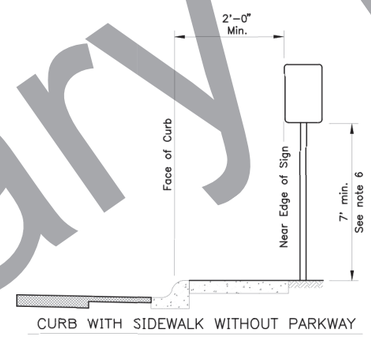


CURB WITHOUT SIDEWALK

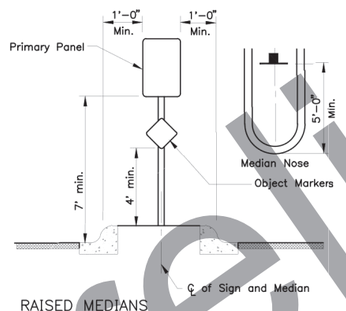


CURB WITH PARKWAY AND SIDEWALK

(If R/W width permits, signs should be placed behind sidewalk.)

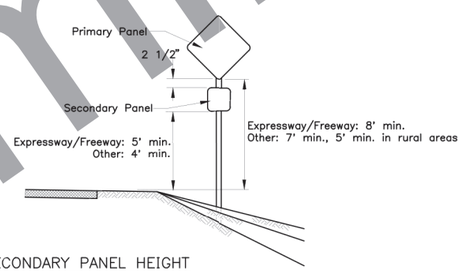


CURB WITH SIDEWALK WITHOUT PARKWAY



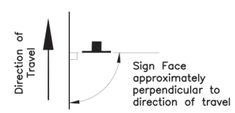
RAISED MEDIANS

Minimum 4' Width for Signing



SECONDARY PANEL HEIGHT

ALL TWO PANEL MOUNTING



SIGN POSITIONING

S-05.02

SHEET 1 of 1

GENERAL NOTES

1. Unless shown otherwise on the plans, the standard sign offset is 12'. The minimum is 6' where shoulder width is 6' or greater.
2. Add 6" to mounting height on unpaved roads.
3. If signs extend over bike paths, the minimum vertical clearance is 8' 0".
4. When signs are placed 30' or more from the edge of traveled way, mount them with the bottom of the sign at least 5' above the road surface at the near edge of the road.
5. When multiple hinged sign supports are used, mount hinges at least 7' above the ground.
6. Minimum mounting height is 7'-0" where parking or pedestrian movements are likely to occur, or where sings extend over sidewalks.
7. For construction signs in rural areas, mounting height shall be 7' minimum.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

POST MOUNTED SIGN
OFFSET AND HEIGHT

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLK Date: 7/8/2020

Next Code and Standards Review Date: 7/8/2030

S-05.02

Preliminary Plans

STANDARD DRAWING
S-05.02

STATE OF ALASKA
REVIEW PS&E
NOV 2020
###
REGISTERED PROFESSIONAL ENGINEER

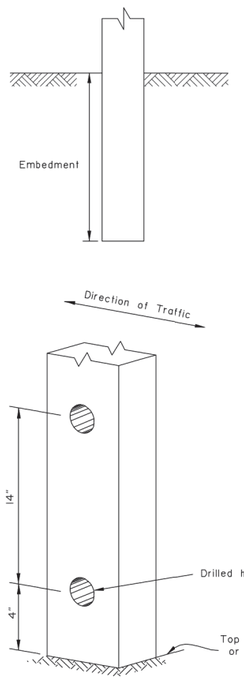
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V30 Thu, Nov/05/20 02:10pm

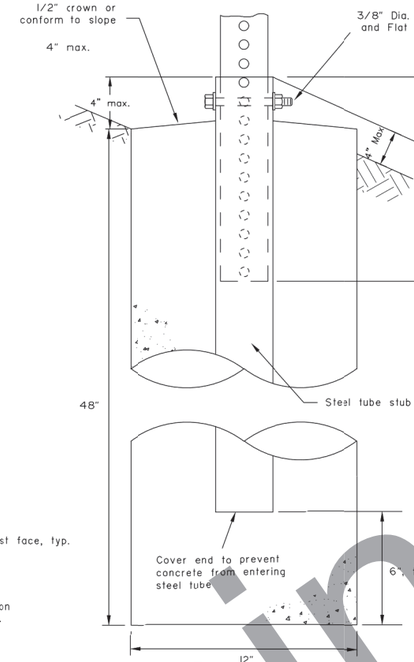
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V31	V34

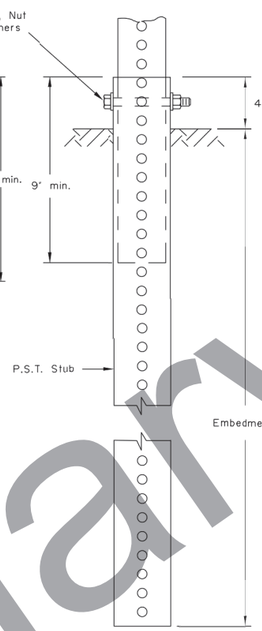
S-30.05

SHEET 1 of 1





SLEEVE TYPE
CONCRETE FOUNDATION



SLEEVE TYPE*
SOIL EMBEDMENT

GENERAL NOTES:

1. Sign shall be placed symmetrically around posts and refer to Standard Plan S-00 for sign framing details.
2. See plans for type of post, size and embedment type.
3. To maintain crashworthiness, install no more than the number of P.S.T.s or wood posts specified in the tables within 7' of each other.
4. Concrete shall be class B.
5. Do not use the supports on this drawing for multiple support signs if supports are separated by more than 7 feet.
6. Treat all field cuts and field drilled holes in wood posts in accordance with Section 730-2.04 of the Standard Specifications.

SIGN POST SPACING NOTES:

1. Instal sign support in accordance with the table below, unless otherwise required by plans or specifications.
2. Exceptions:
   a. Use one post for all E5-1 gore signs, regardless of width.
   b. Use one 2.5" P.S.T. for all STOP signs, with or without street name signs.
3. Supports placed within 7' of each other must be acceptable for that use. See tables below for the sizes of wood posts and P.S.T.s that may be used within 7'. See Manufacturer's documentation for breakaway couplings and tubes that may be used within 7'.
4. See Standard Plan S-31 for frangible couplings, hinges, and foundations for tube and W-shape sign supports.

WOOD SIGN POSTS			
SIZE	HOLE DIA.	EMBEDMENT*	NO. OF POSTS WITHIN 7 Ft. PATH
4"x4"	NONE	4'-1"	2
4"x6"	1 1/2"	5'-3"	2
6"x6"	1 1/2"	4'-9"	1
6"x8"	3"	4'-9"	1

* Embedment depth applies in both strong and weak soil.

WOOD POSTS

PERFORATED STEEL TUBES (P.S.T.)		
POST SIZE	Embedment Depth	No. of P.S.T.s permitted within 7 ft path
1 1/2" x 1 1/2"	4'-8"	2
1 3/4" x 1 3/4"	4'-6"	2
2" x 2"	4'-3"	2
2 1/4" x 2 1/4"	5'-0"	1
2 1/2" x 2 1/2"	4'-6"	1

* Use 3"x3"x3/16" Stub for 2 1/2"x2 1/2" PST Applications.

PERFORATED STEEL TUBE (PST) POSTS

TUBE SIGN POST SPACING								
Sign Width (feet)	No. of Posts	Distance Between Posts	Sign Overhang	Post Type				Notes
				P.S.T.	Wood	Steel Tube	W-Shape	
0.5 to 4.0	1	-	0.5W	X	X	X		See Note 2.
4.5 to 10.0	2	0.6W	0.2W	X	X	X		See Note 3.
10.5 to 11.0	2	6	Varies	X	X	X		See Note 3.
11.5 to 13.0	2	8	Varies				X	
13.5 to 20.0	2	0.6W	0.2W				X	
20.5 to 22.5	3	8	Varies				X	
23.0 to 29.5	3	0.35W	0.15W				X	
30.0 to 31.5	4	8	Varies				X	
32.0 to 40.0	4	0.25W	0.125W				X	

TUBE SIGN POST SPACING

Note: Drawing not to scale

State of Alaska DOT&PF
ALASKA STANDARD PLAN

LIGHT SIGN STRUCTURE
POST EMBEDMENT

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

S-30.05

Preliminary Plans

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V31 Thu, Nov/05/20 02:10pm

STANDARD DRAWING
S-30.05

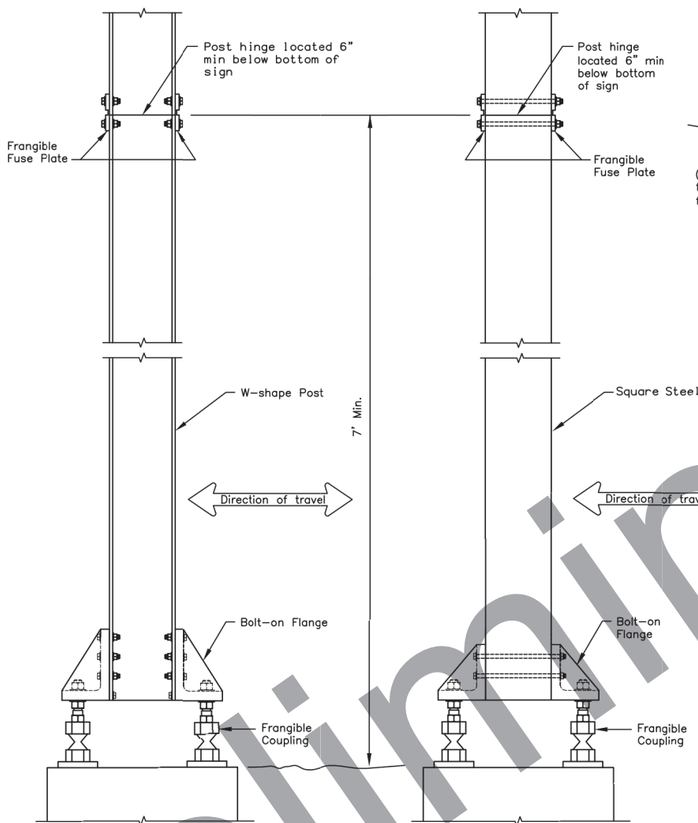
STATE OF ALASKA
REVIEW PS&E
NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V32	V34

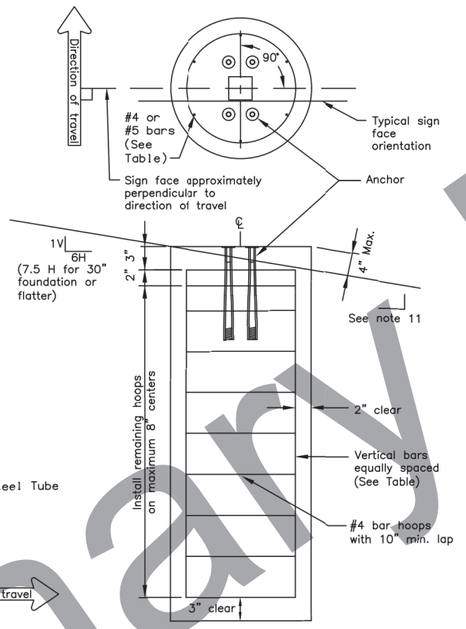
S-31.02 SHEET 1 of 1

NOTE:
Install hinges when more than one post is used to support a sign. Do not install hinges on single post installations.



FRANGIBLE COUPLING SYSTEM FOR W-SHAPE POST

FRANGIBLE COUPLING SYSTEM FOR SQUARE STEEL TUBES



SIGN POST FOUNDATION
See Table for depth and diameter

POST SIZE & TYPE	FOUNDATION * DIA.	MIN. DEPTH	CY³ CONC.	REINFORCEMENT VERTICAL BARS QTY.	SIZE	LGTH.	HOOPS QTY.	SIZE	DIA.
2 1/2" TUBE	1'-6"	6'-0"	0.39	7	#5	5'-6"	10	#4	1'-2"
3" TUBE	1'-6"	6'-0"	0.39	7	#5	5'-6"	10	#4	1'-2"
3 1/2" TUBE	1'-6"	6'-0"	0.39	7	#5	5'-6"	10	#4	1'-2"
4" TUBE	2'-6"	6'-0"	1.09	8	#8	5'-6"	10	#4	2'-2"
4 1/2" TUBE	2'-6"	6'-0"	1.09	8	#8	5'-6"	10	#4	2'-2"
5" TUBE	2'-6"	6'-0"	1.09	8	#8	5'-6"	10	#4	2'-2"
W6 x 9	2'-6"	6'-0"	1.09	8	#8	5'-6"	10	#4	2'-2"
W6 x 12	2'-6"	6'-0"	1.09	8	#8	5'-6"	10	#4	2'-2"
W6 x 15	3'-0"	6'-6"	1.70	8	#11	6'-0"	12	#4	2'-8"
W6 x 30	3'-0"	7'-6"	1.96	8	#11	7'-0"	13	#4	2'-8"

FOUNDATION TABLE

* Foundations sized for use where there are no loose, high moisture, or fine grained soils.

GENERAL NOTES

1. Furnish sign posts with NCHRP 350 compliant frangible couplings designed to break away safely when struck from any direction. There is no MASH compliant device at this time. See SPDR report for more info.
2. Furnish frangible coupling systems with bolt-on flanges.
3. Details on this sheet illustrate only the general components of a frangible coupling system, and are not intended to specify a particular product.
4. Install frangible fuse plates as specified by the manufacturer and hinged joints when multiple posts are used to support a sign. Do not use round pipes.
5. Install the components of the breakaway system, including hinges, in accordance with the written instructions of the system manufacturer.
6. Use Class A, B or W concrete conforming to Sections 501 or 550 of the Standard Specifications. Furnish ASTM A615 grade 60 steel bars for concrete reinforcement conforming to AASHTO M31.
7. Spiral reinforcing steel may be substituted for hoops in concrete foundation. Spiral option shall consist of #3 plain spiral with 6" pitch with three flat turns at the top and one flat turn at the bottom.
8. Install the concrete anchors using a rigid template. Locate the anchors on centers and within tolerances specified by the manufacturer.
9. Install the anchors in fresh concrete as recommended by the manufacturer. Adjust the template's final position until it is level. Remove and replace all foundations that need more than 2 shims under any 1 coupling or more than a total of 3 shims under any pair of couplings to plumb the post.
10. Drill the holes for attaching brackets before the sign posts are hot dip galvanized. Test fit templates in the holes to ensure the brackets can be installed square to the posts.
11. Special grading detail and/or shielding may be required to maintain 4" maximum clear distance.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

SIGN POST BASE AND FOUNDATION

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLK, MJM Date: 7/8/2020

Next Code and Standards Review Date: 7/8/2030

S-31.02

Preliminary Plans

STANDARD DRAWING
S-31.02

STATE OF ALASKA
REVIEW PS&E
NOV 2020
REGISTERED PROFESSIONAL ENGINEER

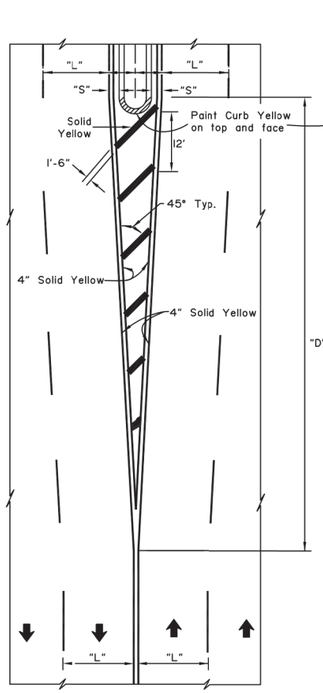
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
Z:\project\2385.02 DOT_N Airport Way West Impr\Civil\ACAD\61872-V-Standard Drawings-V32 Thu, Nov/05/20 02:10pm

NO.	DATE	REVISION

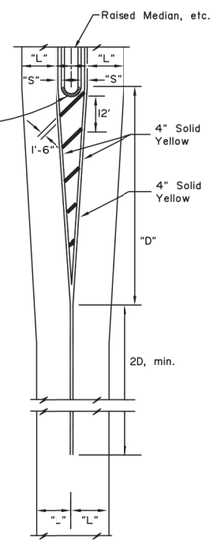
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V33	V34

T-20.04

SHEET | of |



FOUR OR MORE LANES
DRIVE TO RIGHT

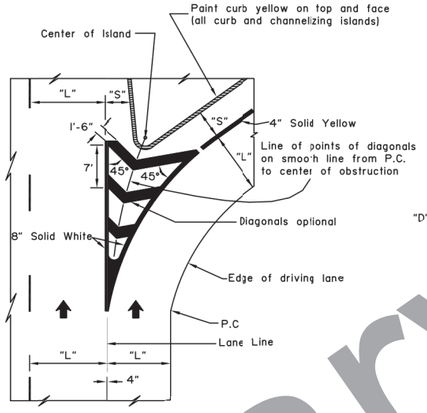


TWO LANES
DRIVE TO RIGHT

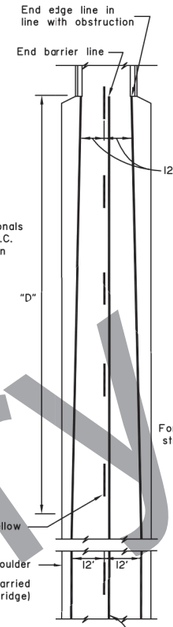
White longitudinal and diagonal markers identical to Four Lane Arrangement.

NOTES: "D" = Speed limit (mph) X "S" (offset width in feet) or as indicated on the plans. Minimum "D" = 100 feet urban, 200 feet rural.

APPROACH TO OBSTRUCTIONS

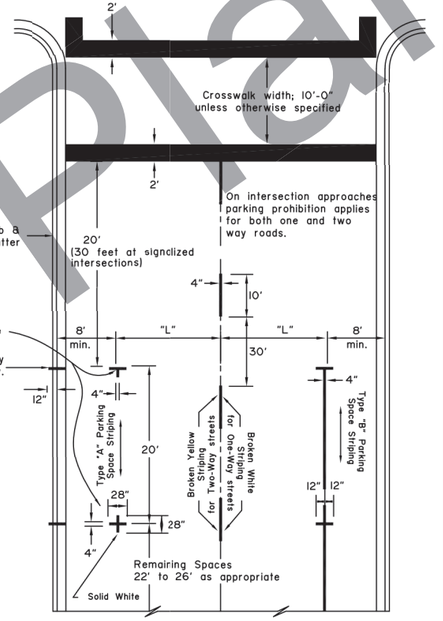


CHANNELIZING ISLAND



Note: On bridges over 24' wide use standard pavement markings. Barrier lines not used unless otherwise required.

EDGE LINE TRANSITION TO NARROW BRIDGE AND APPROACH BARRIER LINE

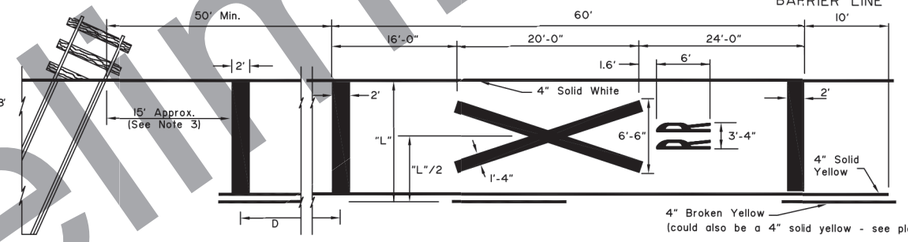


CENTERLINES FOR TWO LANE TWO WAY URBAN ROADS-PARKING LIMIT LINES

RAILROAD CROSSING NOTES:

1. All markings solid white unless indicated otherwise.
2. On 4-lane roadways place railroad crossing approach markings in each lane of the approach.
3. Locate Stop Bar 15' from railroad track or 8' from gate, if present.
4. Place edge lines and lane lines on a uni-directional approach in a normal manner except that the lane line(s) shall be solid 4" white in lieu of broken for a distance of (D-60') in advance of the stop bands.

POSTED LIMIT	D
30 M.P.H.	225'
40	350'
50	475'
60	625'



APPROACH TO RAILROAD CROSSING ON 2 LANE 2 WAY HIGHWAY

GENERAL NOTES:

1. "S"= offset distance as shown on the plans, otherwise 1 to 2 feet.
2. "L"= driving lane width.
3. See the Alaska Traffic Manual for additional guidance and/or restrictions on the use of traffic control devices.

NOT TO SCALE

State of Alaska DOT&PF
ALASKA STANDARD PLAN

PAVEMENT MAKING APPLICATIONS

Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E. Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review By: Date:

Next Code and Standards Review date: 02/08/2029

T-20.04

Preliminary Plans

REVIEW PS&E NOV 2020

STANDARD DRAWING
T-20.04

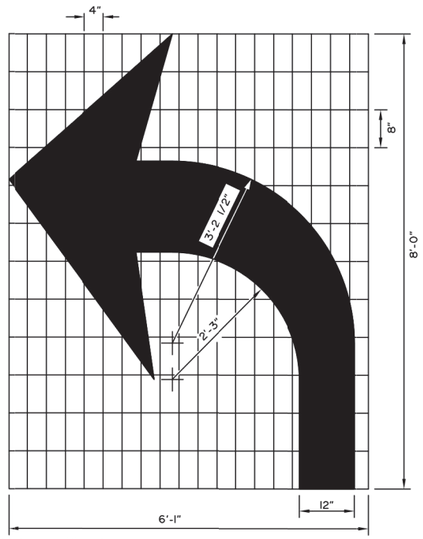
PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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NO.	DATE	REVISION

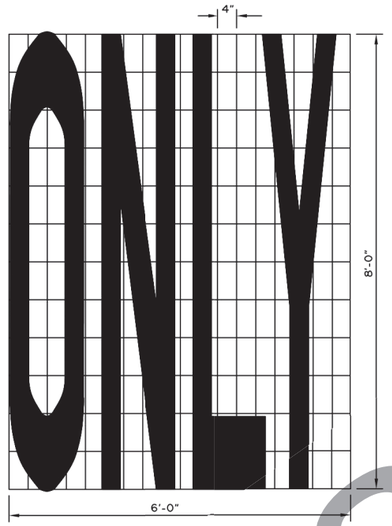
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0610004/Z618720000	2020	V34	V34

T-22.04

SHEET | of |

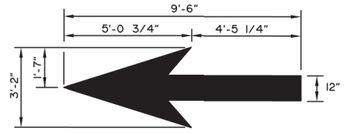


Right turn auxilliary lane usage markings identical except arrow symbol is reversed.

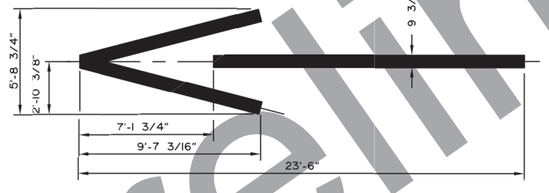




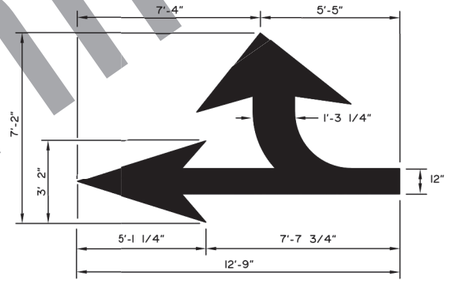
LAYOUT TEMPLATES FOR STENCILS



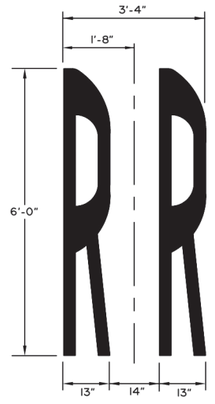
STRAIGHT AHEAD ARROW



WRONG WAY ARROW



COMBINATION ARROW



RAILROAD SYMBOL

GENERAL NOTES:

1. All symbols shown shall be white and reflectorized in accordance with the Special Provisions.
2. See the Alaska Sign Design Specifications (ASDS) for lettering and symbols for pavement marking details not provided on this drawing.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

PAVEMENT MARKING
SYMBOL DIMENSIONS

Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E.
Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

Next Code and Standards Review date: 02/08/2029

T-22.04

Preliminary plans

STANDARD DRAWING
T-22.04

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NOV 2020
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REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC., CERT. OF AUTHORIZATION NO.: AECC111, 9101 VANGUARD DRIVE, ANCHORAGE, AK, 99507, (907) 522-1707
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