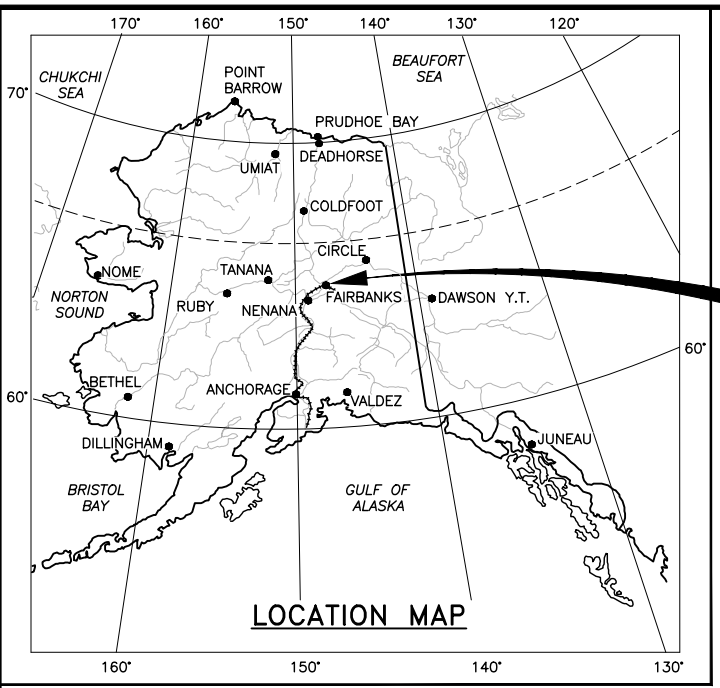


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	A1	167
			CDS ROUTE: 175700	MILEPOINT: 0.498 TO	0.203		
			CDS ROUTE: 176300	MILEPOINT: 2.626 TO	2.824		

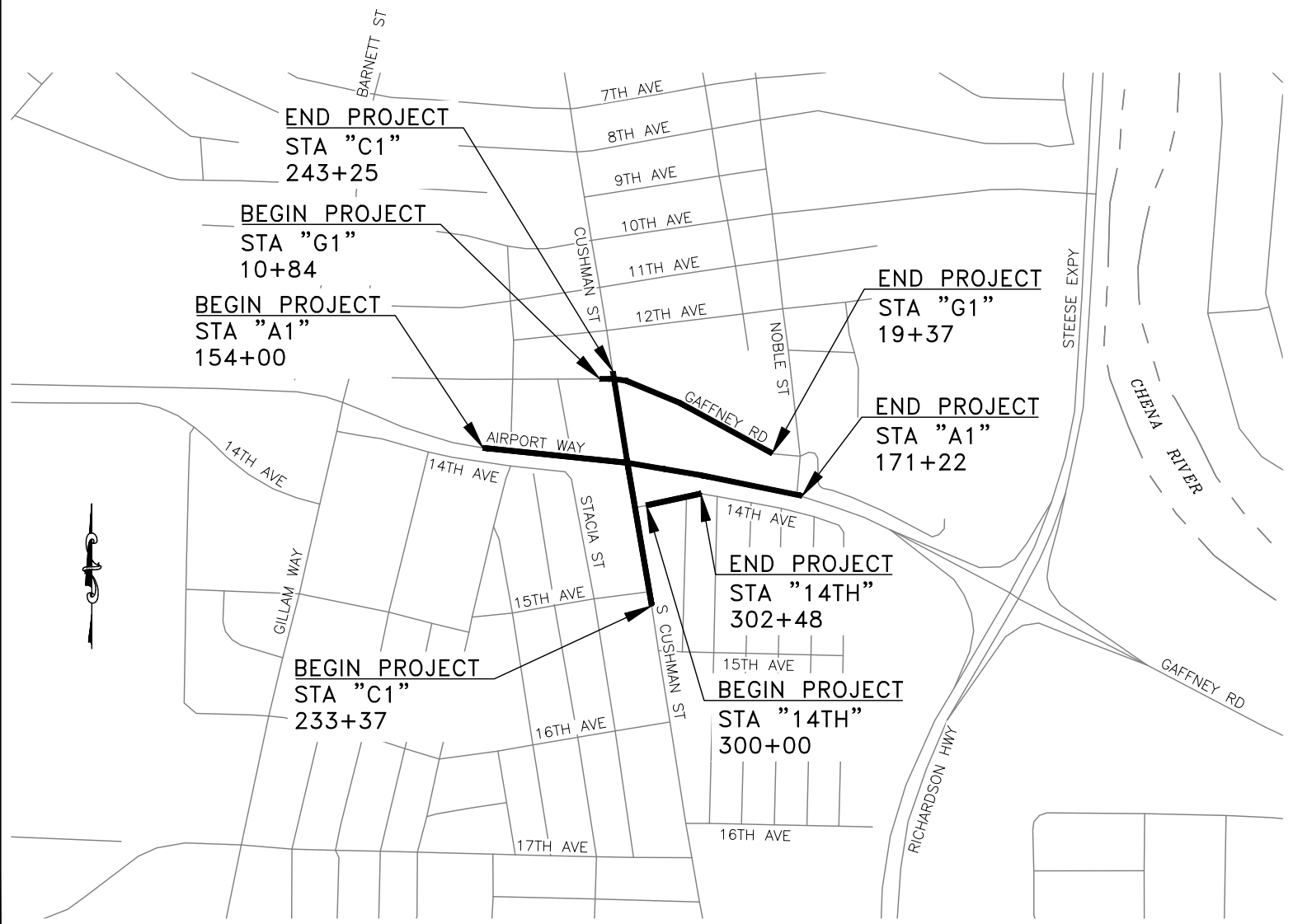
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT
0002312/Z640780000

AIRPORT WAY/CUSHMAN STREET INTERSECTION RECONSTRUCTION
GRADING, DRAINAGE, PAVING, SIGNING, STRIPING, ILLUMINATION & SIGNALIZATION



SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND
A3	GENERAL NOTES AND ABBREVIATIONS
A4-A8	SURVEY CONTROL
B1-B4	TYPICAL SECTIONS
C1-C2	ESTIMATE OF QUANTITIES
D1-D4	SUMMARY TABLES
E1-E5	DEMOLITION PLAN
E6	CURB AND GUTTER DETAILS
E7-E9	MISC DETAILS
F1	PLAN & PROFILE SHEET LAYOUT
F2-F11	PLAN & PROFILE SHEETS
G1	GRADING PLAN SHEET LAYOUT
G2-G15	GRADING PLAN
H1	SIGNING & STRIPING SHEET LAYOUT
H2-H10	SIGNING & STRIPING PLANS
H11-H13	SIGNING SUMMARY
H14	SIGN SALVAGE SUMMARY
H15-H16	SIGN DETAILS
H17	STRIPING DETAIL
H18-H23	ILLUMINATION & INTERCONNECT PLAN
H24-H27	ILLUMINATION SUMMARY
H28	LOAD CENTER SUMMARY
H29-H37	SIGNAL PLAN, WIRING DIAGRAM, SUMMARY
H38-H41	SIGNAL DETAILS
H42-H53	ILLUMINATION & INTERCONNECT DETAILS
L1-L10	LANDSCAPE PLAN
L11-L20	LANDSCAPE DETAILS
Q1-Q2	EROSION SEDIMENT CONTROL PLANS
T1-T3	TRAFFIC CONTROL PLANS
U1	UTILITY SHEET LAYOUT
U2-U7	STORM DRAIN PLAN
U8-U15	STORM DRAIN DETAILS
U16-U18	STORM DRAIN SUMMARY TABLES
U19-U22	WATER LINE PLAN
U23-U24	DUCT BANK PLAN
U25	DUCT BANK DETAILS
V1-V11	STANDARD PLANS



DESIGN DESIGNATIONS		
	AIRPORT WAY	CUSHMAN STREET
ADT (2018)	17,000	8,500
ADT (2040)	20,700	10,360
DHV (%)	2,130 (10.30%)	1,070 (10.30%)
PERCENT TRUCKS (T)	4.8%	3.6%
DIRECTIONAL SPLIT (D)	40/60	40/60
DESIGN SPEED (V)	45 MPH	30 MPH*
DESIGN ESALS (2040)	1,050,000	825,000

*25 MPH NORTH OF AIRPORT WAY

PROJECT SUMMARY			
	AIRPORT WAY	CUSHMAN STREET	14TH AVENUE
WIDTH OF PAVEMENT	VARIES	VARIES	VARIES
LENGTH OF PROJECT	1,722'	988'	248'

CARL HEIM, 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 _____

Joseph Kemp, P.E.
Acting Northern Region Director

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPF\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_A1_TITLE-A1_Thu, Dec/22/22 11:39am

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPE\385_airport_&_cushman_reconstruction\DWGS\c\Sheets\64078_A2_LEGEND-A2_Thu, Dec/22/22 10:33am KE# 00385 (Bill Paddock)

		RECOVERED	SET	EXISTING	PROPOSED					NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	
BLM MONUMENT				SANITARY SEWER (FLOW DIRECTION →)	→→→ SS →	→→→ SS →							ALASKA	0002312/Z640780000	2024	A2	A4	
GLO MONUMENT				FUEL LINE	→→→ O →	→→→ O →												
USC&GS MONUMENT				GAS LINE	→→→ G →	→→→ G →												
PRIMARY MONUMENT				WATER LINE	→→→ W →	→→→ W →												
CENTERLINE MONUMENT IN CASING				METER, VALVE, FIRE HYDRANT														
PRIMARY R.O.W. MONUMENT				EXISTING STORM DRAIN (FLOW DIRECTION →)	→→→ SD →	→→→ SD →												
BEARING OBJECT				PROPOSED STORM DRAIN														
MISCELLANEOUS MONUMENT				FIBER OPTIC LINE	--- FO ---	--- FO ---												
LINE OF SIGHT MONUMENT				DIRECT BURIAL TELEPHONE CABLE	--- T ---	ACS — T —												
CONCRETE R.O.W. MONUMENT				DIRECT BURIAL ELECTRIC CABLE	--- E ---	GCI — T —												
BENCHMARK				ELECTRIC DUCT	--- E ---	UGF — — —												
REBAR AND CAP				ELECTRIC LINE (OVERHEAD)	--- E ---	--- E ---												
REBAR				POWER POLE LINE	--- E ---	--- E ---												
IRON PIPE				JOINT USE POWER & TELEPHONE	--- E ---	--- E ---												
PK NAIL				TELEPHONE POLE LINE	--- E ---	--- E ---												
SPIKE				POLE ANCHOR	--- E ---	--- E ---												
HUB AND TACK				STUB POLE (POWER OR TELEPHONE)	--- E ---	--- E ---												
CONSTRUCTION CENTERLINE				COMMUNICATIONS DUCT	--- T ---	ACS — T —												
MISCELLANEOUS CENTERLINE				COMMUNICATIONS PEDESTAL	--- T ---	GCI — T —												
STATION EQUATION				BURIED CABLE MARKER	--- T ---	ACS — T —												
PROJECT RIGHT-OF-WAY LINE				PIPELINE MARKER OR VALVE	--- T ---	GCI — T —												
EXISTING RIGHT-OF-WAY LINE				CATCH BASIN OR DROP INLET	--- T ---	GCI — T —												
EXISTING PROPERTY LINE				MANHOLE	--- T ---	GCI — T —												
CONTROLLED ACCESS LINE				SANITARY SEWER CLEAN OUT	--- T ---	GCI — T —												
UTILITY EASEMENT LINE				ABANDONED STORM DRAIN	--- T ---	GCI — T —												
TEMPORARY CONSTRUCTION EASEMENT (TCE)				ABANDONED WATER LINE	--- T ---	GCI — T —												
TEMPORARY CONSTRUCTION PERMIT (TCP)				PAD MOUNTED TRANSFORMER	--- T ---	GCI — T —												
ACCESS OR SECTION LINE EASEMENT				ELECTRICAL PEDESTAL	--- T ---	GCI — T —												
PROPOSED CUT SLOPE LIMIT																		
PROPOSED FILL SLOPE LIMIT																		
SECTION LINE																		
1/4 SECTION LINE																		
1/16 SECTION LINE																		
GRADE BREAK LINE																		
TOWNSHIP & RANGE LINE																		

	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE		
FENCE		
PEDESTRIAN RAIL		
CURB AND GUTTER		
DETECTABLE WARNINGS		
GUARDRAIL		
CULVERT PIPE		
SIGN		
MAILBOX		
RAILROAD TRACKS		
RAILROAD DEVICES		
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS		
POST OR BOLLARD		
WELL OR MONITORING WELL		
SEPTIC PIPE		
FUEL TANK FILL PIPE/VENT		
SATELLITE DISH		
TEST HOLE		
CONIFER TREE		
DECIDUOUS TREE		
GRAVE		
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		
DELINEATOR/GUIDE MARKER		

	EXISTING	PROPOSED
INTERCONNECT VAULT		
JUNCTION BOX, TYPE IA		
JUNCTION BOX, TYPE II		
JUNCTION BOX, TYPE III		
SIGNAL FACE, VEHICULAR		
SIGNAL FACE, BACKPLATE		
SIGNAL FACE, LEFT TURN, BACKPLATE		
SIGNAL FACE, PEDESTRIAN		
LOOP DETECTOR		
VIDEO DETECTOR		
RADAR DETECTOR		
OPTICOM DETECTOR		
PEDESTRIAN PUSH BUTTON		
SIGNAL POST W/O MAST ARM		
SIGNAL POLE W/MAST ARM		
SIGNAL CONTROLLER		
LOAD CENTER		
LUMINAIRE		
RIGID METAL CONDUIT		
LIGHTING CONDUIT		
INTERCONNECT CONDUIT		
ASPHALT		
PATTERNED CONCRETE		
CONCRETE SIDEWALK		
FINISHED GRADE SURFACE		
MAJOR CONTOUR LINE		
MINOR CONTOUR LINE		

H = HOUSE
 G = GARAGE
 M = MERCHANT/STORE
 B = BARN
 S = SHED
 P = PRIVY
 SS = SERVICE STATION
 W = WAREHOUSE

LEGEND

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPF\385_airport_&_cushman_reconstruction\DWGS\c\Sheets\64078_A3_ABRV-A3_Thu, Dec/22/22 10:33am KE#: 00385 (Bill Paddock)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	A3	A4

LIST OF ABBREVIATIONS/SYMBOLS

AC	ASPHALT CONCRETE	L	LENGTH OF CURVE, LENGTH
ADA	AMERICANS WITH DISABILITIES REGULATIONS	LBS	POUNDS
ADEC	ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION	LF	LINEAR FEET
ADF&G	ALASKA DEPARTMENT OF FISH AND GAME	LO.	LOCATION
ADT	AVERAGE DAILY TRAFFIC	LT	LEFT
AH	AHEAD	LVC	LENGTH OF VERTICAL CURVE
APPROX.	APPROXIMATE	MAX	MAXIMUM
ARC	ALASKA RAILROAD CORPORATION	M.E.	MATCH EXISTING
ARR	ALASKA RAILROAD	MIN	MINIMUM
ATB	ASPHALT TREATED BASE COURSE	MMA	METHYL METHACRYLATE
&	AND	MP	MILE POST
BFS	BEGIN FULL SUPERELEVATION	MPH	MILES PER HOUR
BMP	BEST MANAGEMENT PRACTICE	MTG. HT.	MOUNTING HEIGHT
BNC	BEGIN NORMAL CROWN	N	NORTH, NORTHING
BP/B.O.P.	BEGINNING OF PROJECT	N/A	NOT APPLICABLE
C	CROSS	N.I.C.	NOT IN CONTRACT
C&G	CURB AND GUTTER	NO. OR #	NUMBER
CF	CUBIC FOOT	NPS	NOMINAL PIPE SIZE
CGP	CONSTRUCTION GENERAL PERMIT	NTS OR N.T.S	NOT TO SCALE
€	CENTERLINE	NW	NORTHWEST
CMF	CORRUGATED METAL PIPE	OC OR O.C.	ON CENTER
COM.	COMMERCIAL	O.D.	OUTSIDE DIAMETER
CRT	CONTROLLED RELEASE TERMINAL	PC	POINT OF CURVATURE
CSP	CORRUGATED STEEL PIPE	PCC	POINT OF COMPOUND CURVATURE
D	DEGREE OF CURVATURE, DISTRIBUTION OF TRAFFIC, DIAMETER	PERM.	PERMANENT
Δ	DELTA ANGLE	PL	PASSING LANE
DB	DITCH BOTTOM	PI	POINT OF INTERSECTION
DEC	DEPARTMENT OF ENVIRONMENTAL CONSERVATION	POC	POINT OF CURVE
DESC	DESCRIPTION	PRC	POINT OF REVERSE CURVATURE
DHV	DESIGN HOURLY VOLUME	PST	PERFORATED STEEL TUBE
DIA	DIAMETER	PT OR P.T.	POINT OF TANGENCY OR POINT
DIP	DUCTILE IRON PIPE	R	RADIUS OF CURVE
DIR.	DIRECTION	RECP	ROLLED EROSION CONTROL PRODUCT
DOT&PF	DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES	REQ'D	REQUIRED
E	EAST, EASTING	RES.	RESIDENTIAL
e	SUPERELEVATION	RMC	RIGID METAL CONDUIT
EA	EACH	ROW OR R/W	RIGHT-OF-WAY
ED	ENERGY DISSIPATER	RT	RIGHT
EFS	END FULL SUPERELEVATION	S	SOUTH / SLOPE
E.G.	FOR EXAMPLE	SD	STORM DRAIN
ELEV	ELEVATION	SE	SOUTHEAST
ENC	END NORMAL CROWN	SF	SQUARE FOOT
EP/E.O.P.	END OF PROJECT	SH.	SHOULDER
EOTW	EDGE OF TRAVELED WAY	SPP	STRUCTURAL PLATE PIPE
ESAL	EQUIVALENT SINGLE AXLE LOAD	SPPA	STRUCTURAL PLATE PIPE-ARCH
ESCP	EROSION AND SEDIMENT CONTROL PLAN	SS	SANITARY SEWER
ETC.	ETCETERA	SQ.W.	SQUARE FEET
EW OR E.W.	EACH WAY	STA.	STATION
EX.	EXISTING	STD. DWG.	STANDARD DRAWING
°F	DEGREES FAHRENHEIT	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
FASBC	FOAMED ASPHALT STABILIZED BASE COURSE	SY	SQUARE YARD
FG	FINISHED GRADE	T	TANGENT DISTANCE, HEAVY VEHICLE PERCENTAGE
FT OR '	FOOT	TBC	TOP BACK CURB
GA.	GAUGE	TCP	TRAFFIC CONTROL PLAN
GALV.	GALVANIZED	TEMP.	TEMPORARY
H	HORIZONTAL	TOC	TOP OF CASTING
HBO	HEADBOLT OUTLET	TS	TUBE STEEL
HMA	HOT MIX ASPHALT	TYP.	TYPICAL
HMCP	HAZARDOUS MATERIAL CONTROL PLAN	UG	UNDERGROUND
I.A.W	IN ACCORDANCE WITH	UGE	UNDERGROUND ELECTRIC
I.E.	INVERT ELEVATION	USACE	UNITED STATES ARMY CORP OF ENGINEERS
IN OR "	INCH	USFWS	UNITED STATES FISH AND WILDLIFE SERVICE
		V	DESIGN SPEED/VERTICAL
		VMS	VISUAL MESSAGE SIGN
		VPC	VERTICAL POINT OF CURVATURE
		VPI	VERTICAL POINT OF INTERSECTION
		VPT	VERTICAL POINT OF TANGENCY
		W	WEST, WATER
		W/	WITH
		WSP	WOOD STAVE PIPE
		WWM	WELDED WIRE MESH

GENERAL NOTES:

1. PRINT OR REPRODUCE PLANS IN COLOR TO MAINTAIN CLARITY OF WORK SHOWN.
2. THE LOCATION, SIZE, AND NUMBER OF EXISTING UTILITIES SHOWN IN THE PLANS ARE NOT EXACT. OBTAIN UTILITY LOCATES AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. VERIFY THE LOCATIONS OF BURIED UTILITIES IN THE FIELD PER THE SPECIAL PROVISIONS AND RECORD ANY CHANGES ON THE CONTRACTOR'S RECORD DRAWINGS. OBTAINING UTILITY LOCATES IS SUBSIDIARY TO OTHER WORK ITEMS.
3. HAND DIG WITHIN TWO FEET OF BURIED UTILITIES.
4. SUPPORT AND PROTECT UNDERGROUND UTILITIES, CONDUITS, AND STRUCTURES NOT SCHEDULED FOR DEMOLITION OR ABANDONMENT.
5. SAW CUT ALL MATCH LINES WHERE NEW CONSTRUCTION ABUTS EXISTING ASPHALT PAVEMENT. APPLY STE-1 ASPHALT FOR TACK COAT ON THE VERTICAL FACE OF ALL SAW CUT ASPHALT.
6. SAW CUT CONCRETE (SIDEWALK, CURB AND GUTTER, DRIVEWAY, ETC.) AT THE NEAREST JOINT AT OR BEYOND MATCH LIMITS OR AS DIRECTED BY THE ENGINEER.
7. PRIOR TO PAVING, ADJUST ALL MANHOLES TO BE 3/8" BELOW FINAL FINISHED GRADE SURFACE.
8. PLACE 4 IN OF TOPSOIL AND SEED TO AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.



**BEFORE YOU DIG
CALL FOR FREE
UNDERGROUND
LOCATION**

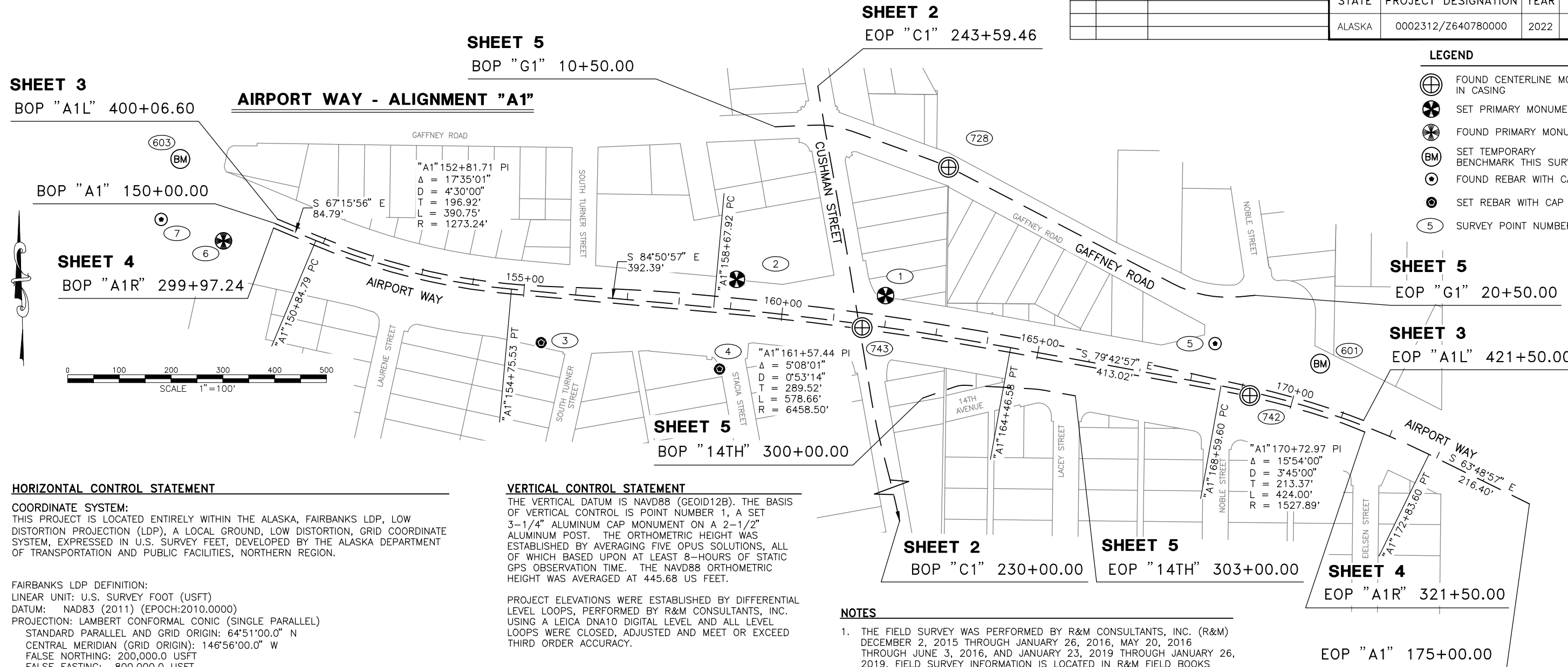
Locate Call Center of Alaska
Statewide.....800-478-3121
will notify subscribed utilities only. Other
utilities need to be contacted individually.

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

**12/22/2022
REVIEW
PS&E**

ABBREVIATIONS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2022	1	5



LEGEND

- FOUND CENTERLINE MONUMENT IN CASING
- SET PRIMARY MONUMENT
- FOUND PRIMARY MONUMENT
- SET TEMPORARY BENCHMARK THIS SURVEY
- FOUND REBAR WITH CAP
- SET REBAR WITH CAP
- SURVEY POINT NUMBER

SHEET 3
BOP "A1L" 400+06.60

SHEET 5
BOP "G1" 10+50.00

SHEET 2
EOP "C1" 243+59.46

SHEET 4
BOP "A1R" 299+97.24

SHEET 5
EOP "G1" 20+50.00

SHEET 3
EOP "A1L" 421+50.00

SHEET 5
BOP "14TH" 300+00.00

SHEET 2
BOP "C1" 230+00.00

SHEET 5
EOP "14TH" 303+00.00

SHEET 4
EOP "A1R" 321+50.00

EOP "A1" 175+00.00

HORIZONTAL CONTROL STATEMENT

COORDINATE SYSTEM:
THIS PROJECT IS LOCATED ENTIRELY WITHIN THE ALASKA, FAIRBANKS LDP, 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 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)

VERTICAL CONTROL STATEMENT

THE VERTICAL DATUM IS NAVD88 (GEOID12B). THE BASIS OF VERTICAL CONTROL IS POINT NUMBER 1, A SET 3-1/4" ALUMINUM CAP MONUMENT ON A 2-1/2" ALUMINUM POST. THE ORTHOMETRIC HEIGHT WAS ESTABLISHED BY AVERAGING FIVE OPUS SOLUTIONS, ALL OF WHICH BASED UPON AT LEAST 8-HOURS OF STATIC GPS OBSERVATION TIME. THE NAVD88 ORTHOMETRIC HEIGHT WAS AVERAGED AT 445.68 US FEET.

PROJECT ELEVATIONS WERE ESTABLISHED BY DIFFERENTIAL LEVEL LOOPS, PERFORMED BY R&M CONSULTANTS, INC. USING A LEICA DNA10 DIGITAL LEVEL AND ALL LEVEL LOOPS WERE CLOSED, ADJUSTED AND MEET OR EXCEED THIRD ORDER ACCURACY.

BASIS OF COORDINATES:

THE BASIS OF COORDINATES IS POINT NUMBER 1, A SET 3-1/4" ALUMINUM CAP MONUMENT ON A 2-1/2" ALUMINUM POST. THE GEODETIC POSITION WAS ESTABLISHED BY AVERAGING FIVE OPUS SOLUTIONS, ALL OF WHICH BASED UPON AT LEAST 8-HOURS OF STATIC GPS OBSERVATION TIME. SAID BASIS OF COORDINATES HAS THE FOLLOWING COORDINATES:

NAD83(2011)(2010.0000) GEODETIC COORDINATES (AVERAGED):
LAT. = 64°50'11.14441" NORTH
LONG. = 147°43'03.85626" WEST
ORTHOMETRIC HEIGHT = 445.68 US FEET (NAVD88/GEOID12B)

PROJECT COORDINATES:
N. = 195,792.7166 US FEET, E. = 677,851.3241 US FEET

BASIS OF BEARINGS:

PROJECT BEARINGS ARE FAIRBANKS LDP GRID BEARINGS.

AIRPORT WAY ALIGNMENT "A1"		
STATION	NORTHING	EASTING
BOP 150+00.00	195931.7368	676672.7806
PC 150+84.79	195898.9697	676750.9810
PT 154+75.53	195805.1889	677128.7283
PC 158+67.92	195769.9614	677519.5326
PT 164+46.58	195692.2801	678092.7564
PC 168+59.60	195618.5430	678499.1401
PT 172+83.60	195486.2985	678900.5560
EOP 175+00.00	195390.8087	679094.7522

NOTES

- THE FIELD SURVEY WAS PERFORMED BY R&M CONSULTANTS, INC. (R&M) DECEMBER 2, 2015 THROUGH JANUARY 26, 2016, MAY 20, 2016 THROUGH JUNE 3, 2016, AND JANUARY 23, 2019 THROUGH JANUARY 26, 2019. FIELD SURVEY INFORMATION IS LOCATED IN R&M FIELD BOOKS 2336.01, BOOKS 1 THRU 6.
- ALL DISTANCES SHOWN ARE GROUND DISTANCES IN U.S. SURVEY FEET.
- VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO USE.
- BACKGROUND MAPPING IS SHOWN FOR ORIENTATION PURPOSES ONLY.

HORIZONTAL CONTROL						
POINT	PROJECT (GROUND) COORDINATES		ELEVATION	AIRPORT WAY		DESCRIPTION
	NORTHING	EASTING		"A1" STATION	"A1" OFFSET	
1	195792.7166	677851.3241	445.68	161+93.41	60.73 Lt	SET 3 1/4" ALUMINUM CAP MONUMENT
2	195824.0581	677563.4653	444.43	159+06.48	57.94 Lt	SET 3 1/4" ALUMINUM CAP MONUMENT
3	195701.9936	677186.1366	443.09	155+41.97	97.62 Rt	SET 2" ALUMINUM CAP ON 5/8" REBAR
4	195651.0180	677530.6555	442.80	158+90.08	117.43 Rt	SET 2" ALUMINUM CAP ON 5/8" REBAR
5	195700.1396	678487.6707	444.66	168+33.75	78.24 Lt	FND PLASTIC CAP ON REBAR
6	195898.3098	676572.7548	442.99	N/A	N/A	FND 3 1/4" ALUMINUM CAP
7	195939.7033	676452.4775	442.17	N/A	N/A	FND PLASTIC CAP ON REBAR
728	196040.1645	677972.9921	--	162+75.19	323.30 Lt	FND 3 1/4" ALUMINUM CAP MONUMENT
742	195599.5959	678554.7262	--	169+17.98	7.61 Rt	FND 2 1/2" ALUMINUM CAP MONUMENT
743	195730.5941	677806.0396	--	161+57.22	7.02 Rt	FND 2 1/2" BRASS CAP MONUMENT

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).

VERTICAL CONTROL						
POINT	PROJECT (GROUND) COORDINATES		ELEVATION	AIRPORT WAY		DESCRIPTION
	NORTHING	EASTING		"A1" STATION	"A1" OFFSET	
601	195661	678690	447.40	170+31	86 Lt	SCRIBED "X" ON TOP NORTHEAST FLANGE BOLT OF FIRE HYDRANT
603	196056	676489	444.36	N/A	N/A	SCRIBED "X" ON SOUTHEAST BOLT AT BASE OF TRAFFIC SIGNAL POLE

SURVEY CONTROL SHEET

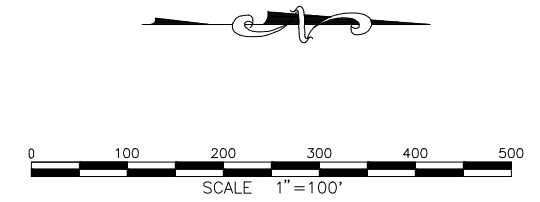
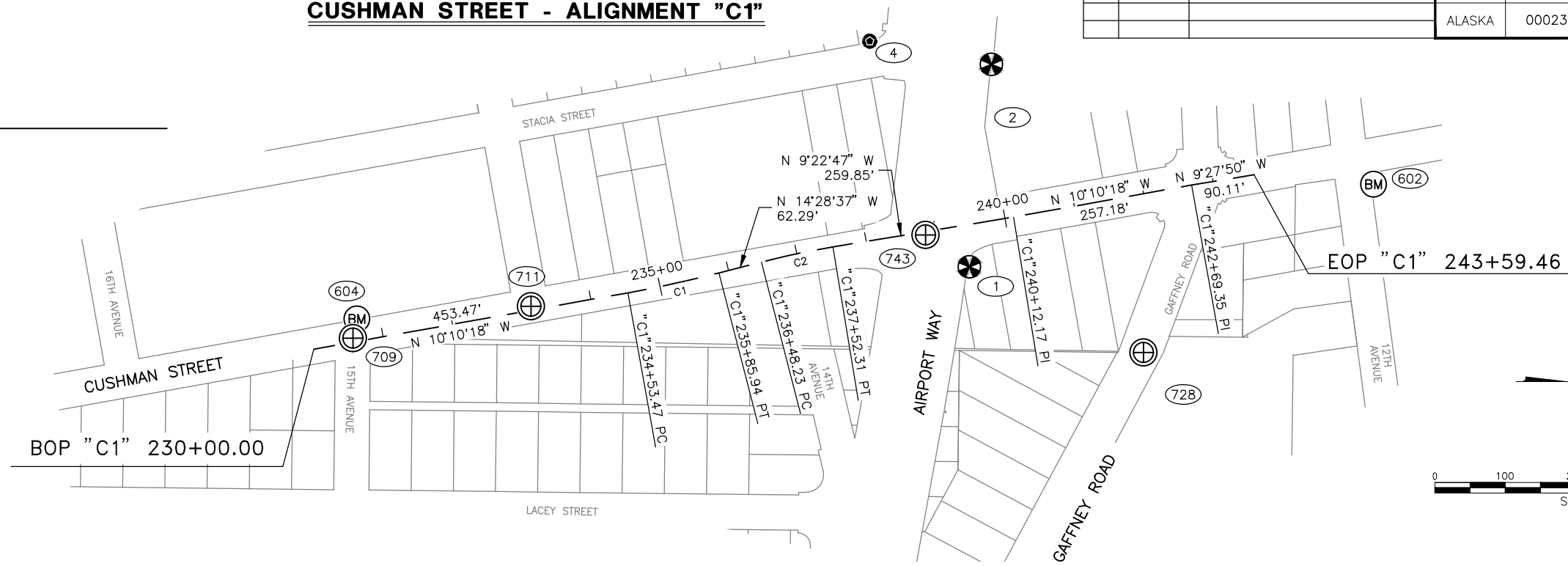
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/15/2022

CUSHMAN STREET - ALIGNMENT "C1"

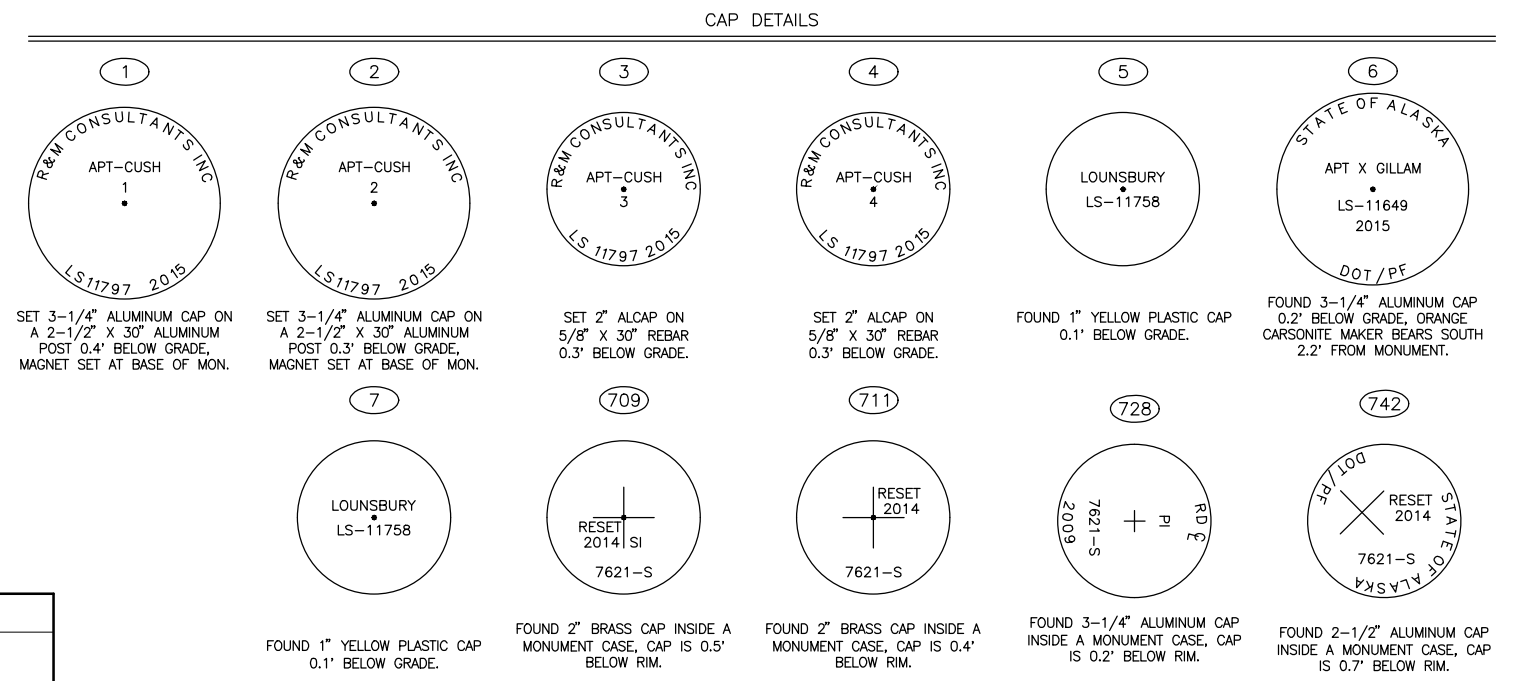
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2022	2	5

- LEGEND**
- FOUND CENTERLINE MONUMENT IN CASING
 - SET PRIMARY MONUMENT
 - SET TEMPORARY BENCHMARK THIS SURVEY
 - SURVEY POINT NUMBER



STATION	NORTHING	EASTING
BOP 230+00.00	194861.1149	677968.2500
PC 234+53.47	195307.4531	677888.1701
PT 235+85.94	195436.8462	677859.9006
PC 236+48.23	195497.1562	677844.3293
PT 237+52.31	195598.9607	677822.8232
PI 240+12.17	195855.3386	677780.4733
PI 242+69.35	196108.4800	677735.0558
EOP 243+59.46	196197.3636	677720.2392

C#	DELTA	RADIUS	ARC LENGTH	CHORD	CHORD BEARING
C1	4°18'19"	1763.00'	132.48'	132.45'	N 12°19'27" W
C2	5°05'50"	1170.00'	104.09'	104.05'	N 11°55'42" W



POINT	PROJECT (GROUND) COORDINATES		ELEVATION	CUSHMAN STREET		DESCRIPTION
	NORTHING	EASTING		"C1" STATION	"C1" OFFSET	
602	196367	677734	445.79	N/A	N/A	SCRIBED "X" ON TOP NORTHWEST FLANGE BOLT OF FIRE HYDRANT
604	194922	677925	445.77	230+68	31 Lt	SCRIBED "X" ON NORTHEAST BOLT AT BASE OF METAL LUMINAIRE

POINT	PROJECT (GROUND) COORDINATES		ELEVATION	CUSHMAN STREET		DESCRIPTION
	NORTHING	EASTING		"C1" STATION	"C1" OFFSET	
1	195792.7166	677851.3241	445.68	239+38.84	59.70 Rt	SET 3 1/4" ALUMINUM CAP MONUMENT
2	195824.0581	677563.4653	444.43	240+19.70	219.12 Lt	SET 3 1/4" ALUMINUM CAP MONUMENT
709	194916.7731	677952.5747	--	230+57.55	5.60 Lt	FND 2" BRASS CAP MONUMENT
711	195169.9143	677907.2588	--	233+14.72	5.50 Lt	FND 2" BRASS CAP MONUMENT
728	196040.1645	677972.9921	--	241+60.09	222.13 Rt	FND 3 1/4" ALUMINUM CAP MONUMENT
743	195730.5941	677806.0396	--	238+84.92	4.89 Rt	FND 2 1/2" BRASS CAP MONUMENT

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).

SURVEY CONTROL SHEET

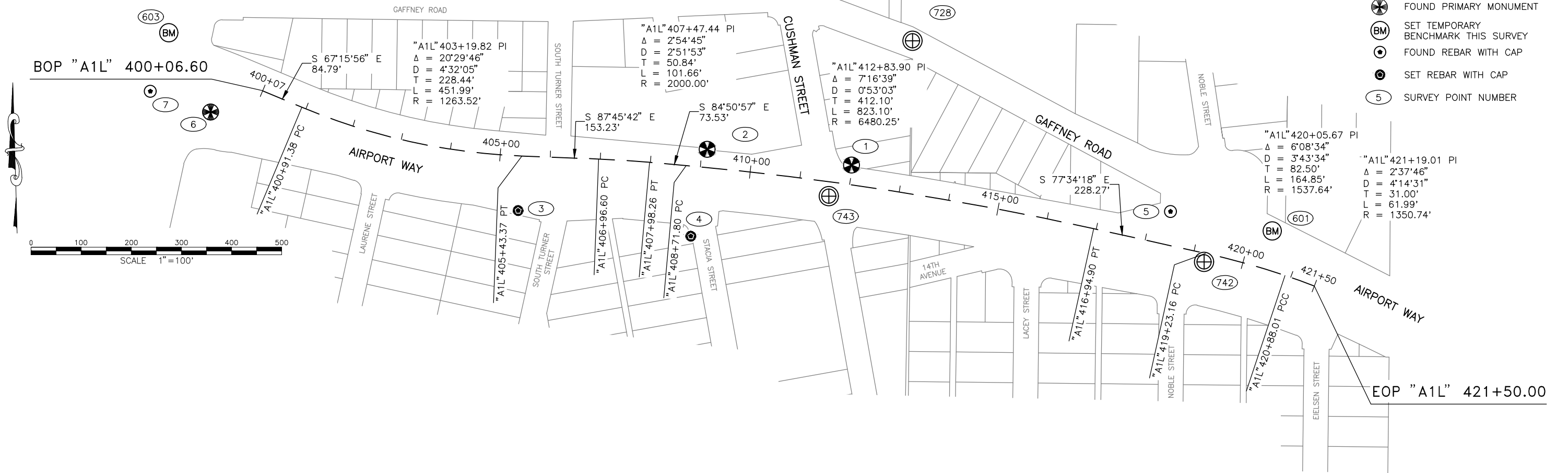
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/15/2022

(Craig Knight) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2022	3	5

AIRPORT WAY - ALIGNMENT "A1L"



LEGEND

- FOUND CENTERLINE MONUMENT IN CASING
- SET PRIMARY MONUMENT
- FOUND PRIMARY MONUMENT
- SET TEMPORARY BENCHMARK THIS SURVEY
- FOUND REBAR WITH CAP
- SET REBAR WITH CAP
- SURVEY POINT NUMBER

AIRPORT WAY ALIGNMENT "A1L"		
STATION	NORTHING	EASTING
BOP 400+06.60	195940.7293	676676.5486
PC 400+91.38	195898.9697	676750.9810
PT 405+43.37	195810.7597	677193.7026
PC 406+96.60	195804.7754	677346.8082
PT 407+98.26	195798.2252	677448.2491
PC 408+71.80	195791.6236	677521.4853
PT 416+94.90	195665.9343	678334.3714
PC 419+23.16	195616.8071	678557.2899
PT 420+88.01	195572.7751	678716.0682
EOP 421+50.00	195551.6930	678774.3527

POINT	PROJECT (GROUND) COORDINATES		ELEVATION	AIRPORT WAY		DESCRIPTION
	NORTHING	EASTING		"A1L" STATION	"A1L" OFFSET	
1	195792.7166	677851.3241	445.68	411+98.38	38.98 Lt	SET 3 1/4" ALUMINUM CAP MONUMENT
2	195824.0581	677563.4653	444.43	409+10.48	36.19 Lt	SET 3 1/4" ALUMINUM CAP MONUMENT
3	195701.9936	677186.1366	443.09	405+40.33	108.98 Rt	SET 2" ALUMINUM CAP ON 5/8" REBAR
4	195651.0180	677530.6555	442.80	408+94.03	139.18 Rt	SET 2" ALUMINUM CAP ON 5/8" REBAR
5	195700.1396	678487.6707	444.66	418+37.24	66.40 Lt	FND PLASTIC CAP ON REBAR
6	195898.3098	676572.7548	442.99	N/A	N/A	FND 3 1/4" ALUMINUM CAP
7	195939.7033	676452.4775	442.17	N/A	N/A	FND PLASTIC CAP ON REBAR
742	195599.5959	678554.7262	--	419+24.38	17.36 Rt	FND 2 1/2" ALUMINUM CAP MONUMENT
743	195730.5941	677806.0396	--	411+62.07	28.77 Rt	FND 2 1/2" BRASS CAP MONUMENT

POINT	PROJECT (GROUND) COORDINATES		ELEVATION	AIRPORT WAY		DESCRIPTION
	NORTHING	EASTING		"A1L" STATION	"A1L" OFFSET	
601	195661	678690	447.40	420+38	77 Lt	SCRIBED "X" ON TOP NORTHEAST FLANGE BOLT OF FIRE HYDRANT
603	196056	676489	444.36	N/A	N/A	SCRIBED "X" ON SOUTHEAST BOLT AT BASE OF TRAFFIC SIGNAL POLE

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).

SURVEY CONTROL SHEET

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

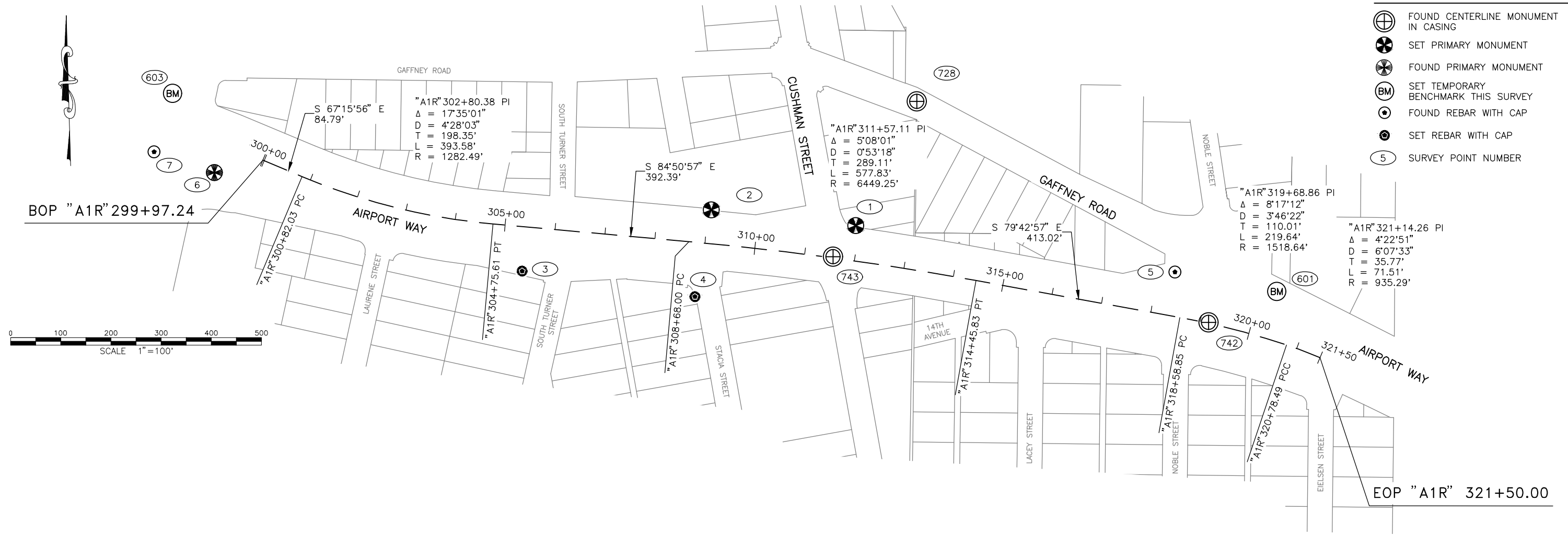
PLANS-IN-HAND
XIXX/2020
Professional Seal No. 49742
2022

12/15/2022

KE#-00385 (Craig Knight)

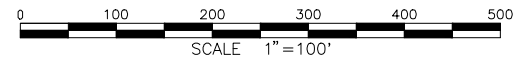
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2022	4	5

AIRPORT WAY - ALIGNMENT "A1R"



LEGEND

- FOUND CENTERLINE MONUMENT IN CASING
- SET PRIMARY MONUMENT
- FOUND PRIMARY MONUMENT
- SET TEMPORARY BENCHMARK THIS SURVEY
- FOUND REBAR WITH CAP
- SET REBAR WITH CAP
- SURVEY POINT NUMBER



AIRPORT WAY ALIGNMENT "A1R"		
STATION	NORTHING	EASTING
BOP 299+97.24	195923.2054	676669.2059
PC 300+82.03	195890.4384	676747.4063
PT 304+75.61	195795.9763	677127.8979
PC 308+68.00	195760.7488	677518.7022
PT 314+45.83	195683.1787	678091.1050
PC 318+58.85	195609.4416	678497.4887
PCC 320+78.49	195554.7645	678710.0170
EOP 321+50.00	195529.4218	678776.8680

HORIZONTAL CONTROL						
POINT	PROJECT (GROUND) COORDINATES			AIRPORT WAY		DESCRIPTION
	NORTHING	EASTING	ELEVATION	"A1R" STATION	"A1R" OFFSET	
1	195792.7166	677851.3241	445.68	311+93.02	69.98 Lt	SET 3 1/4" ALUMINUM CAP MONUMENT
2	195824.0581	677563.4653	444.43	309+06.50	67.19 Lt	SET 3 1/4" ALUMINUM CAP MONUMENT
3	195701.9936	677186.1366	443.09	305+42.05	88.37 Rt	SET 2" ALUMINUM CAP ON 5/8" REBAR
4	195651.0180	677530.6555	442.80	308+90.13	108.18 Rt	SET 2" ALUMINUM CAP ON 5/8" REBAR
5	195700.1396	678487.6707	444.66	318+33.00	87.49 Lt	FND PLASTIC CAP ON REBAR
6	195898.3098	676572.7548	442.99	N/A	N/A	FND 3 1/4" ALUMINUM CAP
7	195939.7033	676452.4775	442.17	N/A	N/A	FND PLASTIC CAP ON REBAR
742	195599.5959	678554.7262	--	319+16.88	1.64 Lt	FND 2 1/2" ALUMINUM CAP MONUMENT
743	195730.5941	677806.0396	--	311+56.88	2.23 Rt	FND 2 1/2" BRASS CAP MONUMENT

VERTICAL CONTROL						
POINT	PROJECT (GROUND) COORDINATES		ELEVATION	AIRPORT WAY		DESCRIPTION
	NORTHING	EASTING		"A1R" STATION	"A1R" OFFSET	
601	195661	678690	447.40	320+29	96 Lt	SCRIBED "X" ON TOP NORTHEAST FLANGE BOLT OF FIRE HYDRANT
603	196056	676489	444.36	N/A	N/A	SCRIBED "X" ON SOUTHEAST BOLT AT BASE OF TRAFFIC SIGNAL POLE

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).

SURVEY CONTROL SHEET

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/15/2022

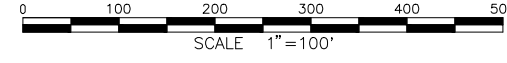
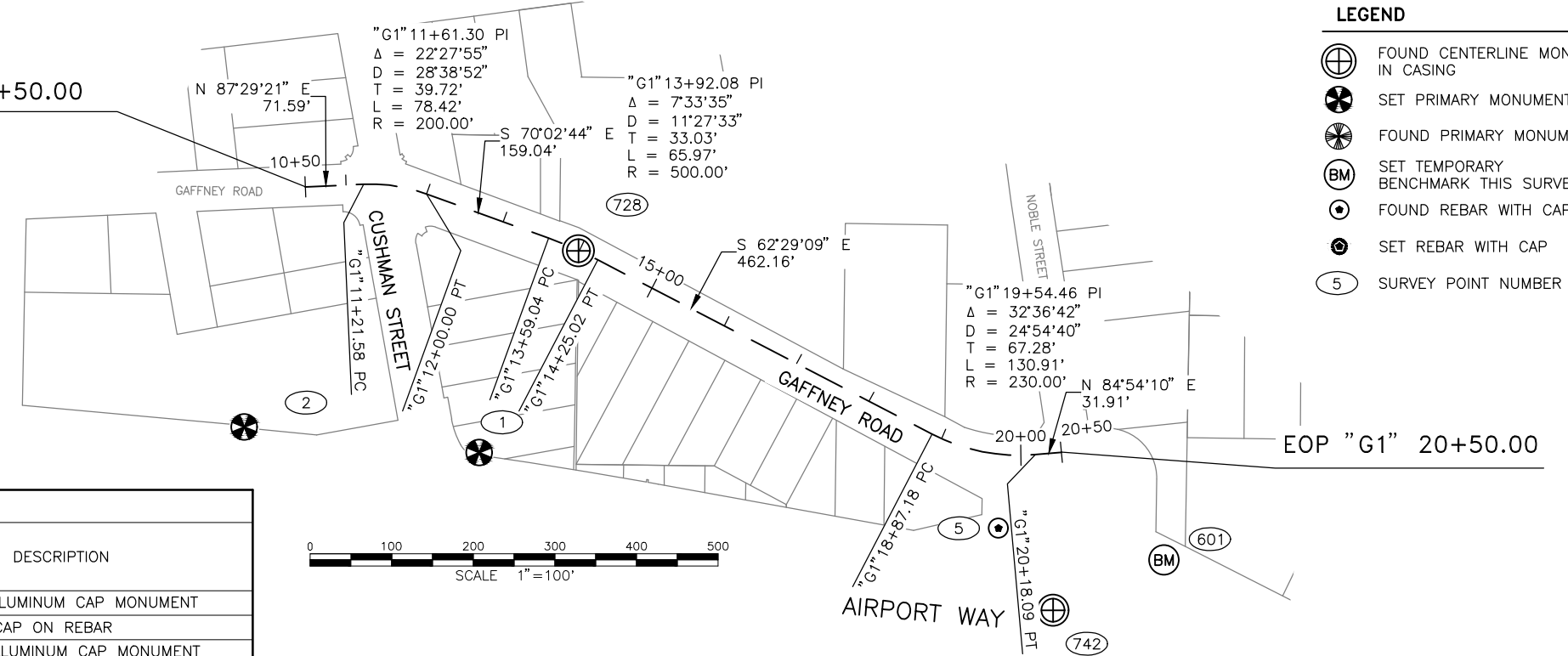
GAFFNEY ROAD ALIGNMENT "G1"

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2022	5	5

LEGEND

- FOUND CENTERLINE MONUMENT IN CASING
- SET PRIMARY MONUMENT
- FOUND PRIMARY MONUMENT
- SET TEMPORARY BENCHMARK THIS SURVEY
- FOUND REBAR WITH CAP
- SET REBAR WITH CAP
- SURVEY POINT NUMBER

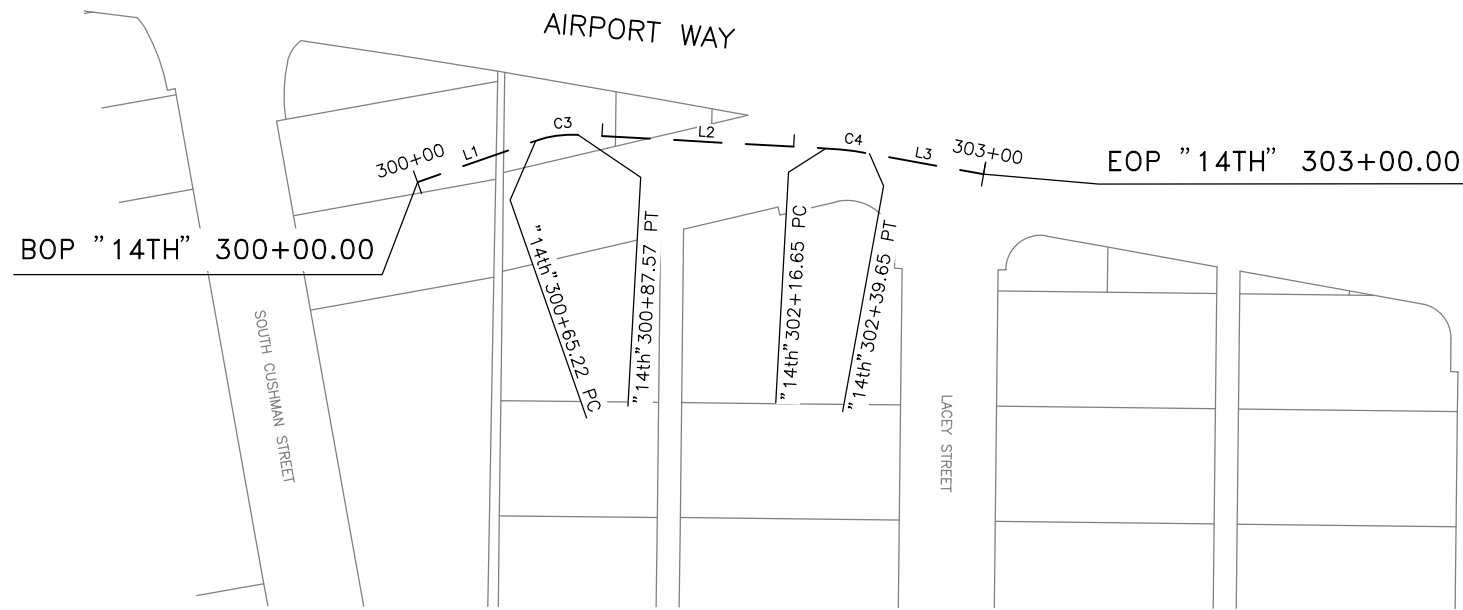
GAFFNEY ROAD ALIGNMENT "G1"		
STATION	NORTHING	EASTING
BOP 10+50.00	196118.5714	677638.1109
PC 11+21.58	196121.7075	677709.6276
PT 12+00.00	196109.8923	677786.6441
PC 13+59.04	196055.6130	677936.1446
PT 14+25.02	196029.0805	677996.4883
PC 18+87.18	195815.5761	678406.3775
PT 20+18.09	195790.4718	678533.0655
EOP 20+50.00	195793.3070	678564.8502



HORIZONTAL CONTROL

POINT	PROJECT (GROUND) COORDINATES		ELEVATION	GAFFNEY ROAD		DESCRIPTION
	NORTHING	EASTING		"G1R" STATION	"G1R" OFFSET	
1	195792.7166	677851.3241	445.68	13+81.35	275.84 Rt	SET 3 1/4" ALUMINUM CAP MONUMENT
5	195700.1396	678487.6707	444.66	19+79.69	90.40 Rt	FND PLASTIC CAP ON REBAR
728	196040.1645	677972.9921	--	308+90.13	0.35 Rt	FND 3 1/4" ALUMINUM CAP MONUMENT
742	195599.5959	678554.7262	--	319+16.88	349.91 Rt	FND 2 1/2" ALUMINUM CAP MONUMENT
743	195730.5941	677806.0396	--	311+56.88	192.05 Rt	FND 2 1/2" BRASS CAP MONUMENT

14TH AVENUE ALIGNMENT "14TH"



14TH AVENUE ALIGNMENT "14TH"		
STATION	NORTHING	EASTING
BOP 300+00.00	195595.1255	677923.1182
PC 300+65.22	195616.6868	677984.6687
PT 300+87.57	195619.8051	678006.6572
PC 302+16.65	195612.6849	678135.5440
PT 302+39.65	195609.9944	678158.3678
EOP 303+00.00	195599.2198	678217.7491

CURVE TABLE					
C#	DELTA	RADIUS	ARC LENGTH	CHORD	CHORD BEARING
C3	22'28'03"	57.00'	22.35'	22.21'	N 81'55'42" E
C4	7'07'20"	185.00'	23.00'	22.98'	S 83'16'37" E

LINE TABLE		
NO.	BEARING	DISTANCE
L1	N 70'41'40" E	65.22'
L2	S 86'50'17" E	129.08'
L3	S 79'42'57" E	60.35'

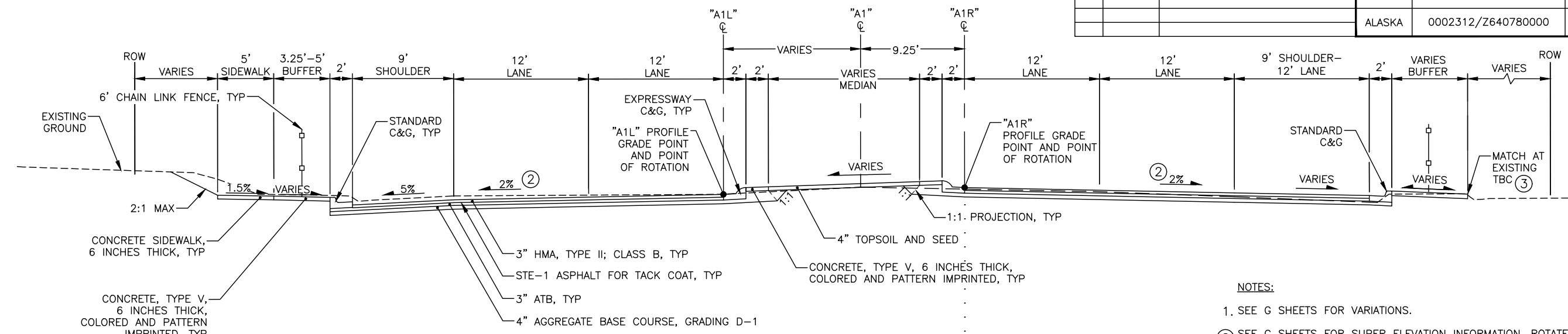
WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS, CORNERS, OR ACCESSORIES, WHICH WILL BE DISTURBED OR BURIED, SHALL BE REFERENCED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION (A.S. 19.10.260) AND RECORDED (A.S. 34.65.040).

SURVEY CONTROL SHEET



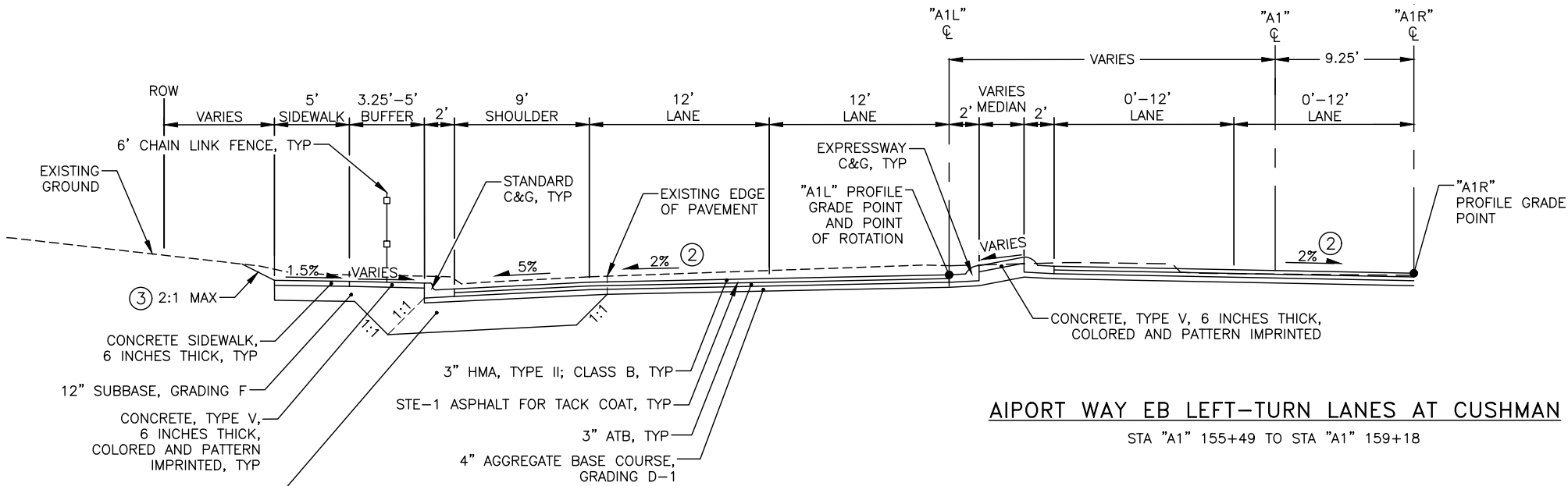
PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOT\PE\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_B1-B5_TYP_SECT-B1_Thu, Dec/22/22 10:34am
 (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	B1	B4

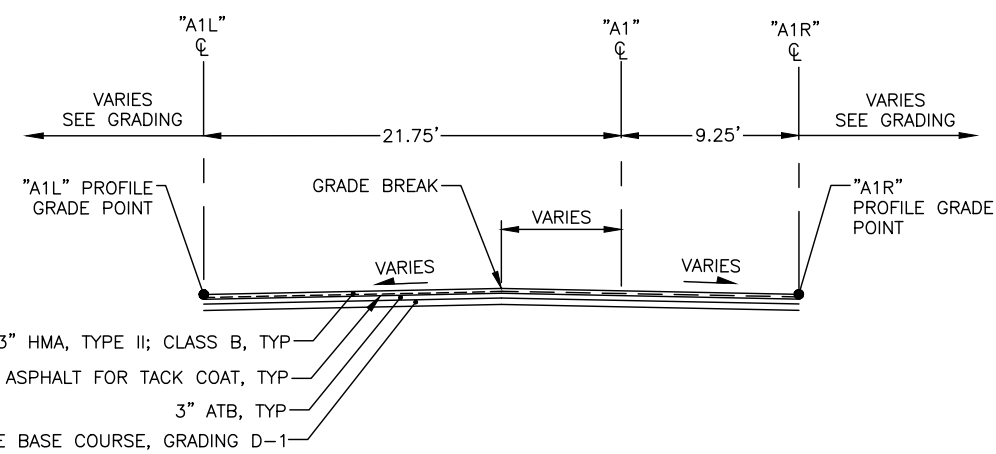


AIRPORT WAY
BOP TO STA "A1" 155+49

- NOTES:**
- SEE G SHEETS FOR VARIATIONS.
 - SEE G SHEETS FOR SUPER ELEVATION INFORMATION. ROTATE ALL LANES AS A SINGLE PLANE.
 - SEE SLOPE EXCEPTION TABLE.



AIRPORT WAY EB LEFT-TURN LANES AT CUSHMAN
STA "A1" 155+49 TO STA "A1" 159+18



AIRPORT WAY AT CUSHMAN INTERSECTION
STA "A1" 159+18 TO STA "A1" 162+64

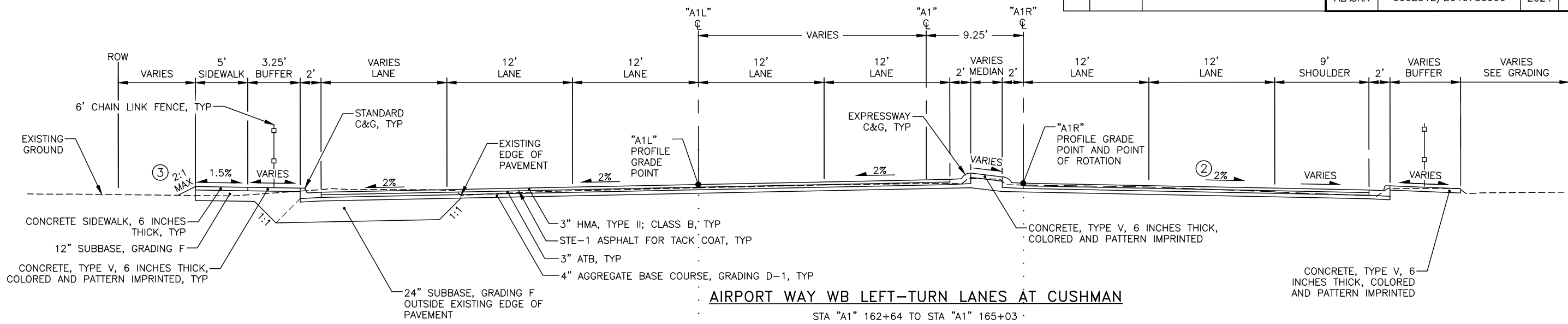
SLOPE EXCEPTION TABLE			
FROM STA	TO STA	OFFSET	DESCRIPTION
"A1" 155+86	"A1" 156+26	LT	SIDEWALK RETAINING WALL, SEE DETAIL ON SHEET E7
"A1" 157+28	"A1" 158+03	LT	FILL SLOPE, 2:1 MAX
"A1" 158+03	"A1" 158+95	LT	SWALE, SEE GRADING
"A1" 158+95	"A1" 159+18	LT	FILL SLOPE, 2:1 MAX
"A1" 156+93	"A1" 159+35	RT	FRONTAGE ROAD C&G, SEE DETAIL ON SHEET E8

TYPICAL SECTIONS
AIRPORT WAY

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOT\FE\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_B1-B5_Typ SECT-B2 Thu, Dec/22/22 10:34am
 (Bill Paddock) KE#: 00385

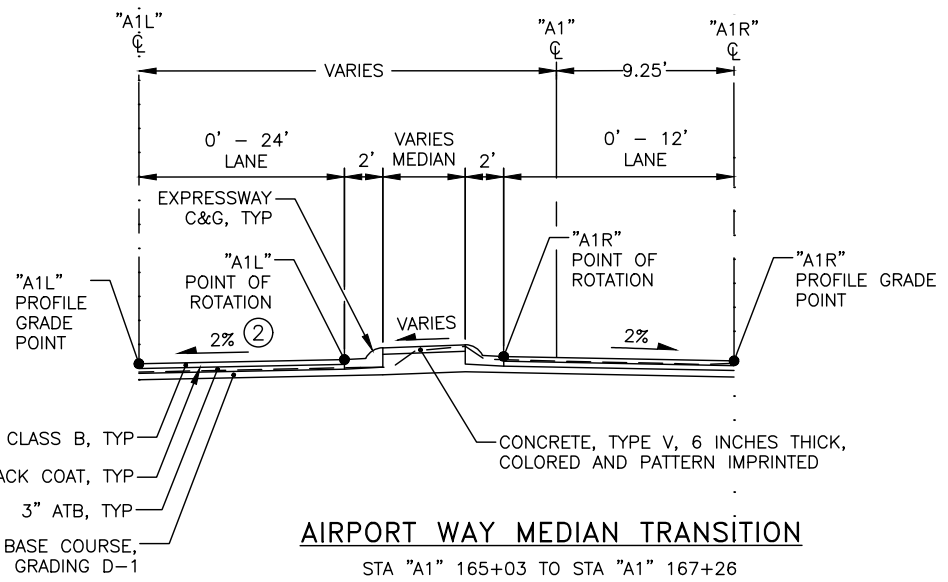
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	B2	B4



AIRPORT WAY WB LEFT-TURN LANES AT CUSHMAN

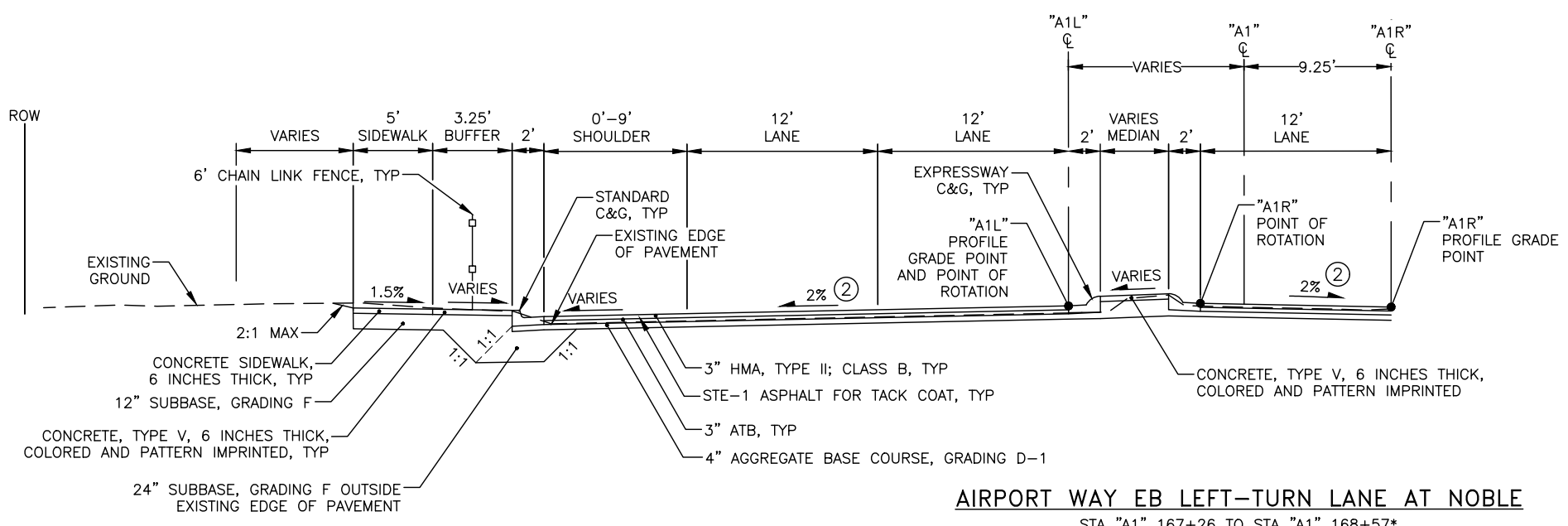
STA "A1" 162+64 TO STA "A1" 165+03

SLOPE EXCEPTION TABLE			
FROM STA	TO STA	OFFSET	DESCRIPTION
"A1" 163+69	"A1" 164+25	LT	CUT SLOPE, 2:1 MAX
"A1" 164+93	"A1" 165+25	LT	CUT SLOPE, 2:1 MAX
"A1" 165+69	"A1" 166+45	LT	CUT SLOPE, 2:1 MAX
"A1" 166+77	"A1" 166+94	LT	SAWCUT/MATCH ASPHALT, SEE GRADING



AIRPORT WAY MEDIAN TRANSITION

STA "A1" 165+03 TO STA "A1" 167+26



AIRPORT WAY EB LEFT-TURN LANE AT NOBLE

STA "A1" 167+26 TO STA "A1" 168+57*
 *SEE GRADING FOR STA "A1" 168+57 TO EOP

- NOTES:**
- SEE G SHEETS FOR VARIATIONS.
 - SEE G SHEETS FOR SUPER ELEVATION INFORMATION. ROTATE ALL LANES AS A SINGLE PLANE.
 - SEE SLOPE EXCEPTION TABLE.

**TYPICAL SECTIONS
AIRPORT WAY**

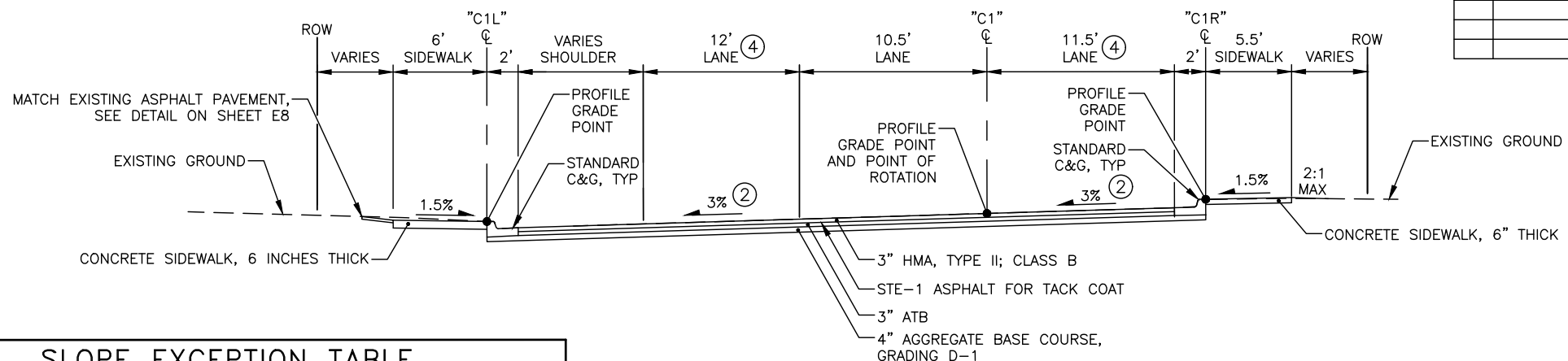
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

**12/22/2022
REVIEW
PS&E**

12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOT\FE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_B1-B5_TYP_SECT-B3_Thu, Dec/22/22 10:34am KE#-00385 (Bill Paddock)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	B3	B4



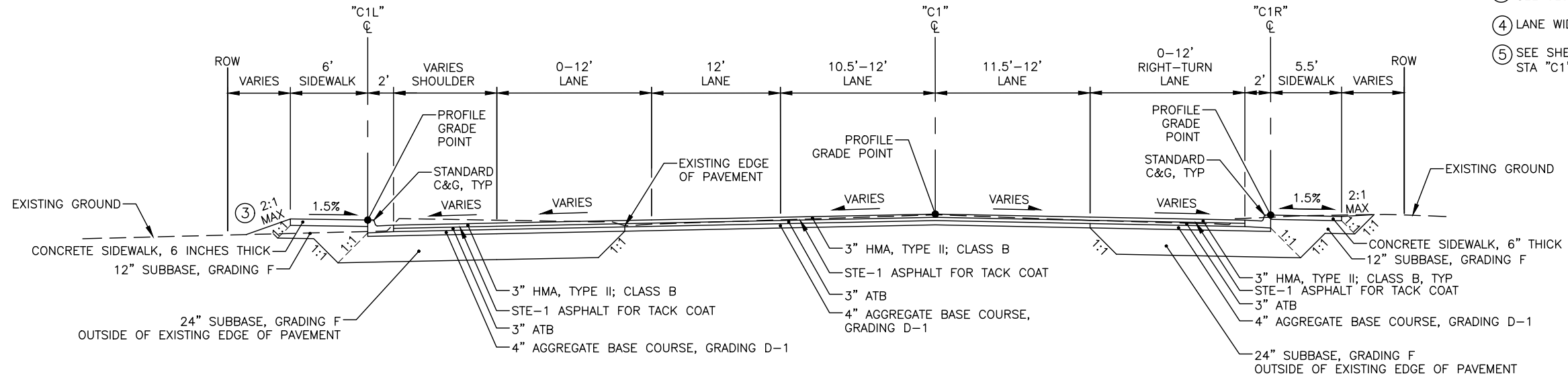
FROM STA	TO STA	OFFSET	DESCRIPTION
"C1" 235+12	"C1" 236+18	LT	MATCH EXISTING ASPHALT PAVEMENT, SEE DETAIL ON SHEET E8
"C1" 241+50	"C1" 242+17	LT	CUT SLOPE, 2:1 MAX

SOUTH CUSHMAN STREET

STA "C1" BOP TO STA "C1" 235+12

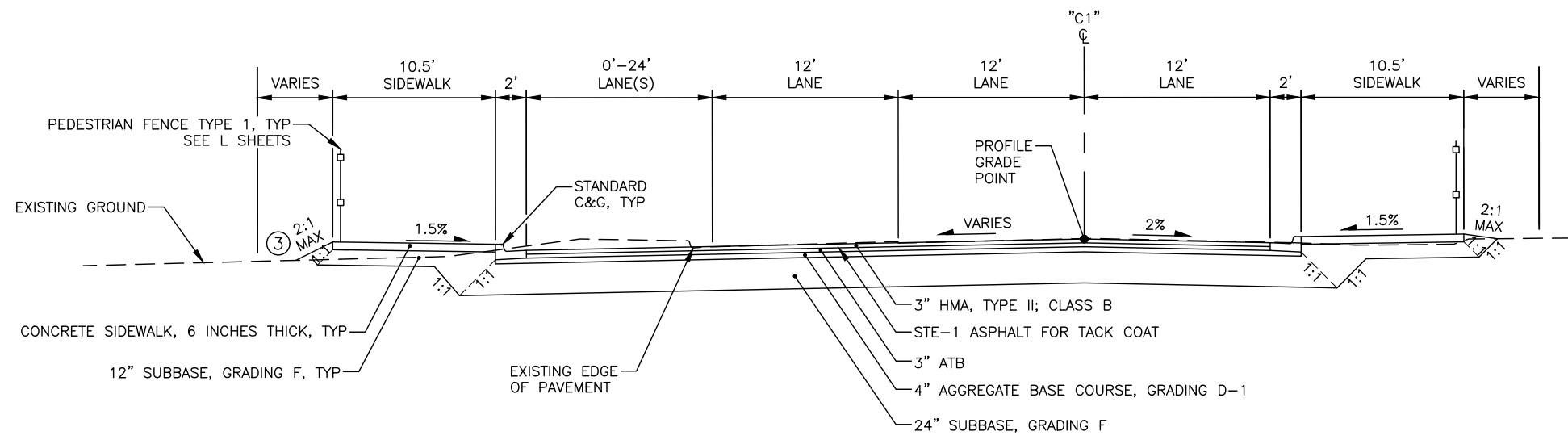
NOTES:

1. SEE G SHEETS FOR VARIATIONS.
- ② TRANSITION TO NORMAL CROWN FROM STA "C1" 234+95 TO STA "C1" 235+75, SEE CURBLINE PROFILES ON SHEET F7.
- ③ SEE SLOPE EXCEPTION TABLE.
- ④ LANE WIDTHS VARY FROM BOP TO STA "C1" 233+75.
- ⑤ SEE SHEET G2 FOR LAYOUT INFORMATION FROM STA "C1" 237+96 TO STA "C1" 240+73



SOUTH CUSHMAN STREET WIDENING

STA. "C1" 235+12 TO STA "C1" 237+96 ⑤



CUSHMAN STREET

⑤ STA "C1" 240+73 TO STA "C1" 242+17

**TYPICAL SECTIONS
CUSHMAN STREET**

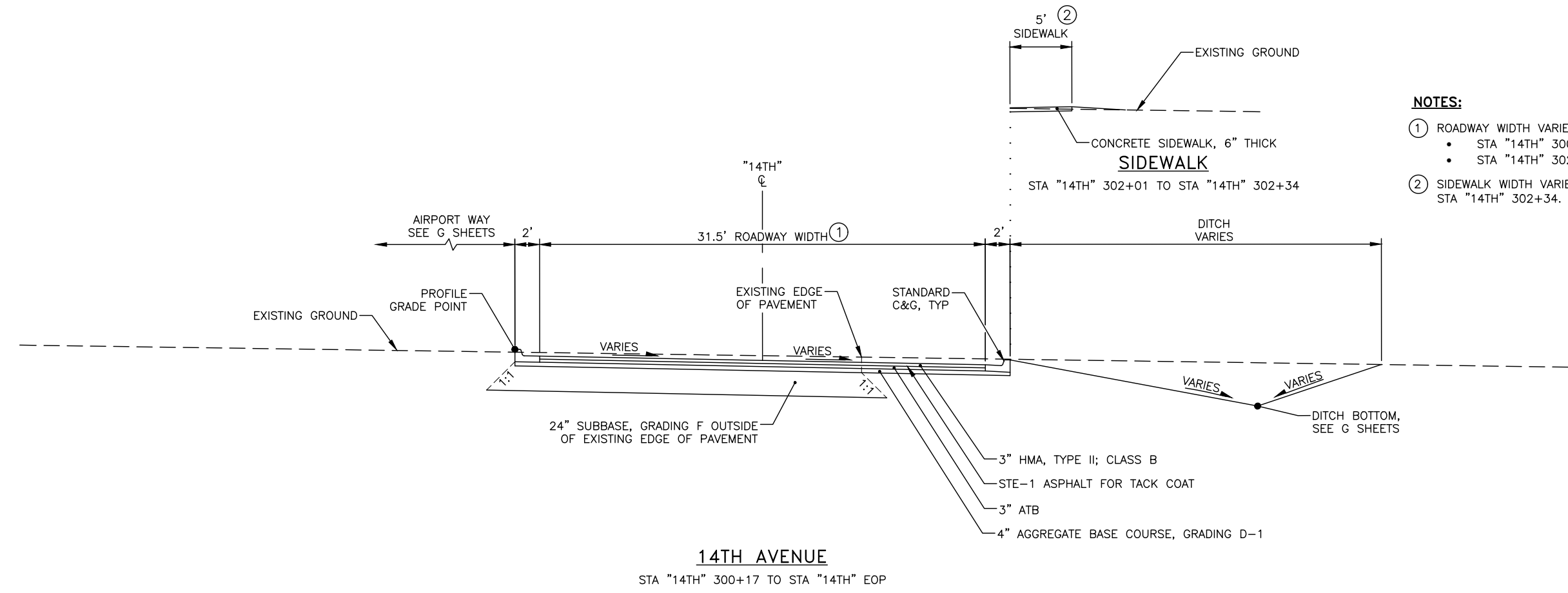
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

**12/22/2022
REVIEW
PS&E**

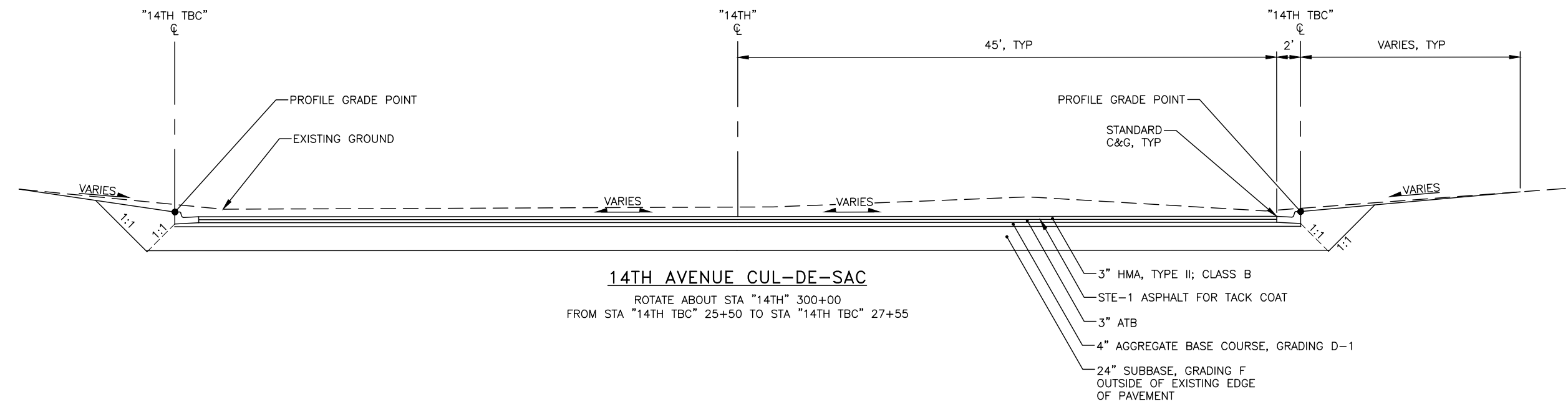
12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_B1-B5_TYP_SECT-B4_Thu, Dec/22/22 10:34am (Bill Paddock) KE#- 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	B4	B4



- NOTES:**
- ① ROADWAY WIDTH VARIES:
 - STA "14TH" 300+17 TO STA "14TH" 300+88
 - STA "14TH" 302+17 TO STA "14TH" EOP
 - ② SIDEWALK WIDTH VARIES TO MATCH EXISTING STA "14TH" 302+17 TO STA "14TH" 302+34.



TYPICAL SECTIONS
14TH AVENUE

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
 12/22/2022

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL
201.0009.0000	CLEARING AND GRUBBING	LUMP SUM	ALL REQ'D
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQ'D
202.0002.0000	REMOVAL OF PAVEMENT	SQUARE YARD	25,710
202.0003.0000	REMOVAL OF SIDEWALK	SQUARE YARD	2,122
202.0004.0000	REMOVAL OF CULVERT PIPE	LINEAR FOOT	3,352
202.0006.0000	REMOVAL OF MANHOLE	EACH	9
202.0008.0000	REMOVAL OF INLET	EACH	21
202.0009.0000	REMOVAL OF CURB AND GUTTER	LINEAR FOOT	9,218
202.2012.0000	GROUND WATER WELL DECOMMISSIONING	EACH	3
203.0003.0000	UNCLASSIFIED EXCAVATION	CUBIC YARD	12,755
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	6,472
304.0001.000F	SUBBASE, GRADING F	TON	13,491
306.0001.0000	ATB	TON	4,130
306.0002.5240	ASPHALT BINDER, GRADE PG 52-40	TON	186
401.0001.002B	HMA, TYPE II; CLASS B	TON	4,130
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40	TON	227
401.0008.002B	HMA PRICE ADJUSTMENT, TYPE II; CLASS B	CONTINGENT SUM	ALL REQ'D
401.0009.0000	LONGITUDINAL JOINT DENSITY PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D
401.0015.0000	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	TON	9
507.0002.0000	PEDESTRIAN RAILING	LINEAR FOOT	290
603.0021.0008	CORRUGATED POLYETHYLENE PIPE 8 INCH	LINEAR FOOT	15
603.0021.0012	CORRUGATED POLYETHYLENE PIPE 12 INCH	LINEAR FOOT	2,366
603.0021.0018	CORRUGATED POLYETHYLENE PIPE 18 INCH	LINEAR FOOT	1,369
603.0021.0024	CORRUGATED POLYETHYLENE PIPE 24 INCH	LINEAR FOOT	230
604.0001.0001	STORM SEWER MANHOLE, TYPE I	EACH	11
604.0001.0002	STORM SEWER MANHOLE, TYPE II	EACH	2
604.0003.0000	RECONSTRUCT EXISTING MANHOLE	EACH	6
604.0004.0000	ADJUST EXISTING MANHOLE	EACH	7
604.0005.000A	INLET, TYPE A	EACH	33
604.0010.0000	RECONSTRUCT INLET	EACH	3
607.0003.0000	CHAIN LINK FENCE	LINEAR FOOT	2,780
608.0001.0006	CONCRETE SIDEWALK, 6 INCHES THICK	SQUARE YARD	3,300
608.0006.0000	CURB RAMP	EACH	26
608.2013.E006	CONCRETE, TYPE V, 6 INCHES THICK, COLORED AND PATTERN IMPRINTED, SLABS	SQUARE YARD	3,020
609.0002.0001	CURB AND GUTTER, TYPE 1	LINEAR FOOT	10,280
615.0001.0000	STANDARD SIGN	SQUARE FOOT	519
615.0006.0000	SALVAGE SIGN	EACH	72
618.0002.0000	SEEDING	POUND	36
620.0001.0000	TOPSOIL	SQUARE YARD	1,979
621.0001.0000	TREE, BIRCH-SINGLE STEM (BETULA POPYRIFERA)	EACH	109
621.0001.000B	TREE, CRABAPPLE (MALUS 'RED SPLENDOR')	EACH	23
621.0001.000C	TREE, LARCH (LARIX LARCINIA)	EACH	3
621.0001.000D	TREE, WHITE SPRUCE (PICEA GLAUCA)	EACH	20
621.0002.0000	SHRUB, COTONEASTER (COTONEASTER LUCIDUS), 36" HEIGHT	EACH	97
621.0002.000B	SHRUB, LILAC (SYRINGA VULGARIS), 36" HEIGHT	EACH	5
621.0002.000C	SHRUB, ROSE (ROSA ACICULARIS), 24" HEIGHT	EACH	118
621.0002.000D	SHRUB, SPIREA ALASKA (SPIREA BEAUVERDIANA), 18" HEIGHT	EACH	119
621.2004.0000	PERENNIAL, IRIS (IRIS SESTOA)	EACH	111

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

ITEM NO.	DESCRIPTION	UNIT
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	148 LBS. / CUBIC FOOT
304.0001.000F	SUBBASE, GRADING F	148 LBS. / CUBIC FOOT
306.0001.0000	ATB	113 LB/SY/IN
306.0002.5240	ASPHALT BINDER, GRADE PG 52-40	4.5% WEIGHT OF 401.0001.002B
401.0001.002B	HMA, TYPE II; CLASS B	151 LBS / CUBIC FOOT
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40	5.5% WEIGHT OF 401.0001.002B
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	0.000334 TONS / S.Y.

ESTIMATE OF QUANTITIES

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
REVIEW
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12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL
621.2007.0000	LANDSCAPE EDGING	LINEAR FOOT	500
621.2008.0001	LANDSCAPE BOULDER – SMALL	EACH	8
621.2008.0002	LANDSCAPE BOULDER – MEDIUM	EACH	7
622.0001.0000	REST AREA, AIRPORT / CUSHMAN HARDSCAPE	LUMP SUM	ALL REQ'D
627.0001.0006	DUCTILE IRON WATER CONDUIT, 6 INCH, CLASS 50	LINEAR FOOT	1,030
627.0001.0008	DUCTILE IRON WATER CONDUIT, 8 INCH, CLASS 50	LINEAR FOOT	194
627.0005.0000	FIRE HYDRANT INSTALLATION	EACH	2
627.0008.0000	WATER SERVICE CONNECTION	EACH	7
627.0009.0006	GATE VALVE, 6 INCH	EACH	5
627.0010.0000	ADJUSTMENT OF VALVE BOX	EACH	6
627.2033.0000	WATER SYSTEM COMPLETE BETTERMENT	LUMP SUM	ALL REQ'D
639.0001.0000	DRIVEWAY	EACH	6
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQ'D
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQ'D
641.0003.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQ'D
641.0004.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL ADDITIVES	CONTINGENT SUM	ALL REQ'D
641.0006.0000	WITHHOLDING	CONTINGENT SUM	ALL REQ'D
641.0007.0000	SWPPP MANAGER	LUMP SUM	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQ'D
642.0003.0000	THREE PERSON SURVEY PARTY	HOURLY	40
642.0004.0000	SET PRIMARY MONUMENT	EACH	3
642.0005.0000	SET SECONDARY MONUMENT	EACH	3
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQ'D
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQ'D
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D
643.0025.0000	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQ'D
643.0032.0000	FLAGGING	CONTINGENT SUM	ALL REQ'D
643.2005.0000	PUBLIC INFORMATION PROGRAM	LUMP SUM	ALL REQ'D
644.0001.0000	FIELD OFFICE	LUMP SUM	ALL REQ'D
645.0001.0000	TRAINING PROGRAM, 2 TRAINEES/APPRENTICES	LABOR HOUR	1,000
646.0001.0000	CPM SCHEDULING	LUMP SUM	ALL REQ'D
660.0001.0000	TRAFFIC SIGNAL SYSTEM COMPLETE, AIRPORT / CUSHMAN	LUMP SUM	ALL REQ'D
660.0003.0000	HIGHWAY LIGHTING SYSTEM COMPLETE, AIRPORT / CUSHMAN	LUMP SUM	ALL REQ'D
660.2003.0000	TRAFFIC SIGNAL SYSTEM MODIFICATIONS, CUSHMAN / BARNETTE	LUMP SUM	ALL REQ'D
661.0001.0000	LOAD CENTER, TYPE 1	EACH	1
661.0006.0000	TRANSFORMER, 5 KVA	EACH	1
662.2005.0000	FIBER OPTIC INTERCONNECT	LUMP SUM	ALL REQ'D
670.0010.0000	METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQ'D
670.0011.0000	METHYL METHACRYLATE TRANSVERSE PAVEMENT MARKING LINES	SQUARE FOOT	4,495
670.0012.0000	METHYL METHACRYLATE TRANSVERSE PAVEMENT MARKINGS, WORDS AND SYMBOLS	EACH	30
680.2000.0000	TELECOMMUNICATIONS UTILITY RELOCATION, GCI	LUMP SUM	ALL REQ'D
680.2000.0000 (2)	TELECOMMUNICATIONS UTILITY RELOCATION, ACS	LUMP SUM	ALL REQ'D
687.2000.0000	POWER UTILITY RELOCATION, GVEA PRIMARY	LUMP SUM	ALL REQ'D
687.2000.0000 (2)	POWER UTILITY RELOCATION, GVEA SECONDARY	LUMP SUM	ALL REQ'D

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	C2	C2

GENERAL NOTES:

1. PRINT OR REPRODUCE PLANS IN COLOR TO MAINTAIN CLARITY OF WORK SHOWN.
2. THE LOCATION, SIZE, AND NUMBER OF EXISTING UTILITIES SHOWN IN THE PLANS ARE NOT EXACT. OBTAIN UTILITY LOCATES AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. VERIFY THE LOCATIONS OF BURIED UTILITIES IN THE FIELD PER THE SPECIAL PROVISIONS AND RECORD ANY CHANGES ON THE CONTRACTOR'S RECORD DRAWINGS. OBTAINING UTILITY LOCATES IS SUBSIDIARY TO OTHER WORK ITEMS.
3. HAND DIG WITHIN TWO FEET OF BURIED UTILITIES.
4. SUPPORT AND PROTECT UNDERGROUND UTILITIES, CONDUITS, AND STRUCTURES NOT SCHEDULED FOR DEMOLITION OR ABANDONMENT.
5. SAW CUT ALL MATCH LINES WHERE NEW CONSTRUCTION ABUTS EXISTING ASPHALT PAVEMENT. APPLY STE-1 ASPHALT FOR TACK COAT ON THE VERTICAL FACE OF ALL SAW CUT ASPHALT.
6. SAW CUT CONCRETE (SIDEWALK, CURB AND GUTTER, DRIVEWAY, ETC.) AT THE NEAREST JOINT AT OR BEYOND MATCH LIMITS OR AS DIRECTED BY THE ENGINEER.
7. PRIOR TO PAVING, ADJUST ALL MANHOLES TO BE 3/8" BELOW FINAL FINISHED GRADE SURFACE.
8. PLACE 4 IN OF TOPSOIL AND SEED TO AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.
9. UNLESS OTHERWISE NOTED ON THE PLANS, PRESERVE AND PROTECT EXISTING STRUCTURES, FENCES, AND OTHER OBSTRUCTIONS ON PRIVATE PROPERTY. WHERE SUCH ITEMS CANNOT BE PROTECTED, REMOVE AND REPLACE ITEMS TO THEIR EXISTING, PRE-CONSTRUCTION CONDITION. PAYMENT IS SUBSIDIARY TO 608 SERIES PAY ITEMS.

NOTE TO REVIEWER:

1. DIVISION 800 PAY ITEMS WILL BE ADDRESSED ONCE THE QAPP IS COMPLETED FOR THE PROJECT.

ESTIMATE OF QUANTITIES

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
REVIEW
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12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	D1	D4

202.0001.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS					
SHEET	BEGIN		END		REMARKS
	STATION	OFFSET	STATION	OFFSET	
E1	'A1'154+00	46' LT	'A1'160+64	47' LT	REMOVE CHAIN LINK FENCE
E1	'A1'154+00	50' RT	'A1'160+16	50' RT	REMOVE CHAIN LINK FENCE
E1-E2	'A1'161+89	47' LT	'A1'168+58	46' LT	REMOVE CHAIN LINK FENCE
E1-E2	'A1'162+40	50' RT	'A1'168+71	50' RT	REMOVE CHAIN LINK FENCE
E2	'A1'165+46	57' LT			REMOVE BOLLARD
E2	'A1'165+94	56' LT			REMOVE BOLLARD
E2	'A1'166+48	57' LT			REMOVE BOLLARD
E2	'A1'168+87	50' RT	'A1'171+22	50' RT	REMOVE CHAIN LINK FENCE
E2	'A1'169+67	51' LT	'A1'169+97	50' LT	REMOVE CHAIN LINK FENCE
E3	'C1'237+25	29' RT			REMOVE COMMUNICATIONS MANHOLE COORDINATE W/ ENGINEER FOR SALVAGE
E3	'C1'236+73	38' LT	'C1'237+25	21' LT	HANDRAIL, CURB, AND PLANTERS
E3	'C1'239+52	51' RT	'C1'239+62	43' RT	"F" SHAPE BARRIER BEHIND EX. TRAFFIC CABINET
E3	'C1'239+63	56' RT			REMOVE POST
E3	'C1'240+04	44' LT			REMOVE SIGN AND FOUNDATION
E3	'C1'240+20	31' LT			REMOVE WATER MANHOLE
E3	'C1'242+00	37' LT	'C1'242+43	39' LT	REMOVE BACKING CURB
E3	'C1'242+17	38' RT			REMOVE BOLLARD
E3	'C1'242+22	56' RT			REMOVE BOLLARD
E3	'C1'234+95	31' LT			REMOVE FIRE HYDRANT
E3	'C1'234+95	30' LT			REMOVE WATER VALVE
E3	'C1'239+82	12' LT			REMOVE WATER VALVE
E3	'C1'240+20	14' LT			REMOVE WATER VALVE
E3-E4	'C1'239+50	CL	'C1'243+00	CL	REMOVE SUBGRADE CONCRETE SLABS
E4	'C1'242+45	36' LT			REMOVE FIRE HYDRANT
E5	'C1'242+45	35' LT			REMOVE WATER VALVE
E5	'C1'242+44	26' LT			REMOVE WATER VALVE
E7	'A1'156+32	143' LT			REMOVE BOLLARD
E7	'A1'156+32	140' LT			REMOVE WATER VALVE
E7	'A1'156+33	137' LT			REMOVE BOLLARD
E7	'A1'156+17	213' LT			REMOVE BOLLARD
E7	'A1'156+17	220' LT			REMOVE BOLLARD

202.0002.0000 REMOVAL OF PAVEMENT					
SHEET	START STATION	END STATION	AREA (SY)	REMARKS	
E1-E2	'A1'154+00	'A1'171+22	16,230	AIRPORT WAY, THROUGH INTERSECTION	
E1	'A1'156+18	'A1'156+37	130	ADDITIONAL ASPHALT REMOVAL FOR WATERLINE REMOVAL ON 14TH AVE WEST OF CUSHMAN STREET	
E1-E2	'A1'156+36	'A1'171+22	1,990	ADDITIONAL ASPHALT REMOVAL BEYOND SIDEWALK, NORTH OF AIRPORT WAY	
E1-E2	'A1'156+93	'A1'169+17	380	ADDITIONAL ASPHALT REMOVAL BEYOND SIDEWALK, SOUTH OF AIRPORT WAY	
E1-E2	'A1'162+28	'A1'168+68	220	MEDIAN ON AIRPORT WAY, EAST OF CUSHMAN STREET	
E3	'C1'233+50	'C1'238+55	910	ADDITIONAL ASPHALT REMOVAL FOR S CUSHMAN STREET WIDENING	
E3	'C1'233+82	'C1'238+45	1,900	S CUSHMAN STREET SOUTH OF AIRPORT WAY	
E3-E4	'C1'239+43	'C1'243+25	2,520	N CUSHMAN STREET NORTH OF AIRPORT WAY	
E4	'14TH'300+00	'14TH'302+48	1,290	14TH AVENUE	
E5	'G1'12+26	'G1'19+37	140	2' OF ASPHALT REMOVAL ON SOUTH GAFFNEY BETWEEN CUSHMAN STREET AND NOBLE STREET	
		TOTAL:	25,710		

202.0003.0000 REMOVAL OF SIDEWALK						
SHEET	BEGIN		END		AREA (SY)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
E1	'A1'154+00	LT	'A1'160+41	LT	345	
E1	'A1'159+09	RT	'A1'160+62	RT	87	
E1	'A1'160+41	LT	'A1'160+93	LT	62	
E1	'A1'160+62	RT	'A1'161+67	RT	72	
E1	'A1'161+39	LT	'A1'162+69	LT	96	
E1	'A1'162+10	RT	'A1'162+30	RT	40	
E1-E2	'A1'162+30	RT	'A1'164+79	RT	142	
E1-E2	'A1'162+69	LT	'A1'168+96	LT	351	
E2	'A1'168+70	RT	'A1'168+82	RT	7	
E2	'A1'169+49	LT	'A1'169+98	LT	33	
E3	'C1'233+50	LT	'C1'237+93	LT	273	
E3	'C1'233+82	RT	'C1'236+80	RT	187	
E3	'C1'237+18	RT	'C1'237+78	RT	34	
E3-E4	'C1'240+05	RT	'C1'242+33	RT	158	
E3-E4	'C1'240+08	LT	'C1'242+68	LT	213	
E4	'14TH'301+88	RT	'14TH'302+34	RT	22	
			TOTAL:		2,122	

SUMMARY TABLES

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	D2	D4

202.0004.0000 REMOVAL OF CULVERT PIPE							
SHEET	BEGIN		END		LENGTH (LF)	REMARKS	
	STATION	OFFSET	STATION	OFFSET			
E1	'A1'154+50	44' LT	'A1'154+50	38' LT	6		
E1	'A1'154+50	38' RT	'A1'154+57	8' RT	47		
E1	'A1'156+00	44' RT	'A1'156+53	38' RT	53		
E1	'A1'156+53	38' RT	'A1'156+53	52' RT	15		
E1	'A1'156+53	38' RT	'A1'158+75	38' RT	223		
E1	'A1'158+00	44' LT	'A1'158+40	60' LT	44		
E1	'A1'158+00	44' LT	'A1'158+75	38' RT	111		
E1	'A1'158+75	38' RT	'A1'158+75	44' RT	6		
E1	'A1'158+75	38' RT	'A1'160+88	37' RT	212		
E1	'A1'160+88	37' RT	'A1'161+64	39' RT	76		
E1	'A1'160+88	37' RT	'A1'161+05	72' LT	111		
E1	'A1'160+94	68' LT	'A1'161+05	72' LT	13		
E1	'A1'161+05	72' LT	'A1'161+45	94' LT	46		
E1-E2	'A1'161+64	39' RT	'A1'164+30	38' RT	264		
E2	'A1'164+30	38' RT	'A1'164+30	44' RT	6		
E2	'A1'164+30	38' RT	'A1'164+30	44' LT	83		
E2	'A1'164+30	44' LT	'A1'164+30	60' LT	16		
E2	'A1'164+30	44' RT	'A1'164+69	63' RT	44		
E2	'A1'164+30	38' RT	'A1'167+36	38' RT	307		
E2	'A1'166+81	79' LT	'A1'167+00	44' LT	40		
E2	'A1'167+00	44' LT	'A1'167+36	38' RT	90		
E2	'A1'167+36	38' RT	'A1'167+36	44' RT	7		
E2	'A1'167+36	44' RT	'A1'167+36	52' RT	9		
E2	'A1'167+36	38' RT	'A1'169+69	38' RT	230		
E2	'A1'168+96	82' LT	'A1'169+39	83' LT	46		
E2	'A1'168+86	35' LT	'A1'168+55	60' LT	100	24-INCH CMP CASING	
E2	'A1'169+01	76' LT	'A1'168+40	106' LT	192	8" STL WATER	
E2	'A1'169+39	83' LT	'A1'169+68	44' LT	50		
E2	'A1'169+68	44' LT	'A1'169+87	52' LT	22		
E2	'A1'169+68	44' LT	'A1'169+69	8' LT	36		
E2	'A1'169+69	8' LT	'A1'169+69	38' RT	47		
E2	'A1'169+69	38' RT	'A1'169+68	43' RT	6		
E2	'A1'169+68	43' RT	'A1'169+68	52' RT	8		
E2	'C1'235+72	17' RT	'C1'235+94	19' LT	42		
E3	'C1'236+14	6' LT	'C1'236+64	12' LT	70	6" DIP WATER PIPE	
E3	'C1'236+64	12' LT	'C1'238+12	8' LT	133	6" STL WATER PIPE	
E3	'C1'237+70	5' LT	'C1'238+06	5' LT	35	24-INCH CMP CASING	
E3	'C1'239+92	12' LT	'C1'242+69	14' LT	285	6" STL WATER PIPE	
E3	'C1'240+00	9' LT	'C1'240+13	10' LT	20	24-INCH CMP CASING	
E3	'C1'242+34	50' RT	'C1'242+55	44' RT	23		
E3	'C1'242+55	44' RT	'C1'242+67	48' LT	92		
E3	'C1'242+67	48' LT	'C1'243+12	45' LT	46		
E4	'14TH'301+84	12' LT	'14TH'301+96	26' RT	40		
					TOTAL:	3,352	

202.0006.0000 REMOVAL OF MANHOLE			
SHEET	STATION	OFFSET	REMARKS
E1	'A1'156+53	38' RT	
E1	'A1'158+40	60' LT	
E1	'A1'158+75	38' RT	
E1	'A1'160+88	37' RT	
E1	'A1'161+05	72' LT	
E1	'A1'161+64	39' RT	
E2	'A1'164+30	38' RT	
E2	'A1'167+36	38' RT	
E2	'A1'169+68	44' LT	
		TOTAL (EA):	9

202.0008.0000 REMOVAL OF INLET			
SHEET	STATION	OFFSET	REMARKS
E1	'A1'154+50	44' LT	
E1	'A1'154+57	8' RT	
E1	'A1'156+00	44' RT	
E1	'A1'158+00	44' LT	
E1	'A1'158+75	44' RT	
E1	'A1'160+94	68' LT	
E1	'A1'161+45	94' LT	
E2	'A1'164+30	44' RT	
E2	'A1'164+30	44' LT	
E2	'A1'164+30	60' LT	
E2	'A1'167+00	44' LT	
E2	'A1'167+36	44' RT	
E2	'A1'168+96	82' LT	
E2	'A1'169+39	83' LT	
E2	'A1'169+69	44' RT	
E2	'C1'235+72	17' RT	
E2	'C1'235+94	19' LT	
E3	'C1'242+34	50' RT	
E3	'C1'242+67	48' LT	
E4	'14TH'301+84	12' LT	
E4	'14TH'301+96	26' RT	
		TOTAL (EA):	21

SUMMARY TABLES

PLANS DEVELOPED BY:
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 12/22/2022
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PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	D3	D4

202.0009.0000 REMOVAL OF CURB AND GUTTER

SHEET	BEGIN		END		LENGTH (LF)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
E1	'A1'154+00	LT	'A1'160+62	LT	661	
E1	'A1'154+00	CL	'A1'160+91	CL	1,386	EXISTING MEDIAN
E1	'A1'154+00	RT	'A1'161+17	RT	718	
E1	'A1'156+93	RT	'A1'159+35	RT	266	
E1-E2	'A1'161+85	LT	'A1'168+98	LT	741	
E1-E2	'A1'162+22	CL	'A1'168+73	CL	1,311	EXISTING MEDIAN
E1-E2	'A1'162+37	RT	'A1'171+22	RT	877	
E2	'A1'169+36	RT	'A1'171+22	RT	216	
E2	'A1'169+63	CL	'A1'171+22	CL	323	EXISTING MEDIAN
E2	'A1'168+68	RT	'A1'169+05	RT	36	
E3	'C1'233+82	LT	'C1'238+63	LT	493	
E3	'C1'233+82	RT	'C1'236+73	RT	292	
E3	'C1'237+24	RT	'C1'238+27	RT	132	
E3-E4	'C1'239+61	LT	'C1'242+70	LT	366	
E3-E4	'C1'239+26	RT	'C1'242+31	RT	352	
E4	'C1'242+66	RT	'C1'243+25	RT	98	
E4	'C1'243+11	RT	'C1'243+25	RT	47	
E4	'14TH'301+45	RT	'14TH'301+63	RT	28	DRIVEWAY
E4	'14TH'301+76	LT	'14TH'302+48	LT	46	
E4	'14TH'301+87	RT	'14TH'301+98	RT	23	DRIVEWAY
E4	'14TH'301+87	RT	'14TH'302+34	RT	68	
E5-E6	'G1'12+26	LT	'G1'19+37	LT	712	
E7	'A1'156+32	RT	'A1'156+37	RT	26	
					TOTAL:	9,218

202.2012.0000 GROUNDWATER WELL DECOMMISSIONING

SHEET	STATION	OFFSET	REMARKS
E1	'A1'161+18	51' RT	
E1	'A1'163+19	64' RT	(2) WELLS
	TOTAL (EA):	3	

607.0003.0000 CHAIN LINK FENCE

SHEET	BEGIN		END		LENGTH (LF)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
F2-F3	'A1'154+00	46.5' LT	'A1'154+00	66.7' LT	539	
F2-F3	'A1'154+00	50.0' RT	'A1'160+67	79.4' RT	672	
F2-F3	'A1'155+86	50.0' RT	'A1'156+23	79.4' RT	37	
F3-F5	'A1'161+94	83.9' LT	'A1'168+54	48.0' LT	666	
F3-F5	'A1'162+62	49.3' RT	'A1'168+60	49.3' RT	597	
F3-F5	'A1'169+67	49.3' RT	'A1'169+97	49.3' RT	32	
F3-F5	'A1'168+86	49.3' RT	'A1'171+22	49.3' RT	228	
				ROUNDED TOTAL:	2,780	

608.0001.0006 CONCRETE SIDEWALK, 6 INCHES THICK

SHEET	BEGIN		END		AREA (SY)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
F2-F3	'A1'153+95	LT	'A1'160+07	LT	339	MATCH TO EXISTING SIDEWALK WITH CROSS SLOPE >2%
F2	'A1'155+86	LT	'A1'156+23	LT	35	MATCH TO EXISTING SIDEWALK WITH CROSS SLOPE >2%
F2-F3	'A1'158+76	RT	'A1'160+88	RT	241	
F3	'A1'160+64	LT	'A1'160+91	LT	33	PEDESTRIAN REFUGE ISLANDS
F3	'A1'160+72	RT	'A1'161+14	RT	41	PEDESTRIAN REFUGE ISLANDS
F3	'A1'161+45	RT	'A1'161+88	LT	50	PEDESTRIAN REFUGE ISLANDS
F3	'A1'161+81	LT	'A1'162+05	LT	38	PEDESTRIAN REFUGE ISLANDS
F3-F5	'A1'161+63	RT	'A1'168+96	RT	437	
F3-F4	'A1'162+64	LT	'A1'164+86	LT	137	
F6	'A1'168+68	RT	'A1'168+83	RT	16	PEDESTRIAN PATH
F6	'A1'169+51	LT	'A1'169+96	LT	26	PEDESTRIAN PATH
F6-F7	'C1'233+37	RT	'C1'238+35	RT	365	INCLUDES DRIVEWAY CURB CUT
F6-F7	'C1'233+50	LT	'C1'238+08	LT	356	INCLUDES DRIVEWAY CURB CUT
F7-F8	'C1'239+77	RT	'C1'242+39	RT	317	
F7-F8	'C1'239+94	LT	'C1'242+69	LT	357	INCLUDES DRIVEWAY CURB CUT
F8-F9	'G'12+08	RT	'G'19+37	RT	483	
F10	'14TH'301+93	LT	'14TH'302+34	LT	22	
				ROUNDED TOTAL:	3,300	

SUMMARY TABLES

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
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12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 C:\Users\Bill.Paddock\OneDrive\Temp\AcPublish_11684\64078_D1-D4_SUMMARIES-D4_Thu, Dec/22/22 01:41pm (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	D4	D4

608.0006.0000 CURB RAMP

SHEET	STATION	OFFSET	WIDTH/ARC LENGTH (FT)	RADIUS (FT)	REMARKS
F2	'A1'159+15	66' RT	5.0	60.0	PERPENDICULAR
F2	'A1'160+44	80' LT	5.8	46.0	PERPENDICULAR
F2	'A1'160+68	66' LT	6.7		PERPENDICULAR
F2	'A1'160+78	52' LT	5.0		PERPENDICULAR
F2	'A1'160+80	40' RT	5.0		PERPENDICULAR
F2	'A1'160+86	65' LT	5.0		PERPENDICULAR
F2	'A1'160+90	82' RT	6.0	39.5	PERPENDICULAR
F2	'A1'160+98	62' RT	5.0		PERPENDICULAR
F2	'A1'161+10	49' RT	5.2		PERPENDICULAR
F2	'A1'161+49	66' LT	5.0		PERPENDICULAR
F2	'A1'161+66	69' LT	5.0		PERPENDICULAR
F2	'A1'161+71	91' LT	5.0		PARALLEL
F2	'A1'161+80	52' LT	5.0		PERPENDICULAR
F2	'A1'161+85	50' RT	5.0		PERPENDICULAR
F2	'A1'161+97	39' RT	5.0		PERPENDICULAR
F2	'A1'162+01	63' RT	5.0		PERPENDICULAR
F2	'A1'162+28	74' RT	6.0	39.5	PERPENDICULAR
F5	'A1'168+82	57' RT	5.6	38.0	PARALLEL
F5	'A1'168+75	46' RT	5.0		RETURNED CURB RAMP WITH (2) EA DETECTABLE WARNING TILE
F5	'A1'169+54	56' LT	4.5	41.5	RETURNED CURB RAMP
F5	'A1'169+92	70' LT	4.5	32.6	RETURNED CURB RAMP
F6	'C1'242+37	26' RT	17.1	22.0	PARALLEL
F6	'C1'242+57	36' LT	13.2	29.5	PARALLEL
F7	'14TH'301+94	19' LT	5.0		PARALLEL
F7	'14TH'301+97	21' RT	12.6	8.0	PARALLEL
		TOTAL (EA):	26		

609.0002.0001 CURB AND GUTTER, TYPE 1

SHEET	BEGIN		END		LENGTH (LF)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
F2-F3	'A1'154+00	LT	'A1'160+07	LT	605	
F2-F3	'A1'154+00	CL	'A1'160+66	CL	1,335	MEDIAN
F2-F3	'A1'154+00	RT	'A1'161+09	RT	716	
F2	'A1'156+93	RT	'A1'159+37	RT	264	CURB ON AIRPORT FRONTAGE RD
F3	'A1'159+99	RT	'A1'161+17	LT	261	PEDESTRIAN REFUGE ISLANDS
F3	'A1'160+61	LT	'A1'160+93	LT	129	PEDESTRIAN REFUGE ISLANDS
F3	'A1'161+44	LT	'A1'162+26	RT	191	PEDESTRIAN REFUGE ISLANDS
F3	'A1'161+79	RT	'A1'162+09	RT	131	PEDESTRIAN REFUGE ISLANDS
F3-F5	'A1'161+63	LT	'A1'168+96	LT	765	
F3-F5	'A1'162+01	CL	'A1'168+72	CL	1,348	MEDIAN
F3-F5	'A1'162+25	RT	'A1'168+72	RT	668	
F5	'A1'168+79	RT	'A1'171+22	RT	243	
F5	'A1'169+38	LT	'A1'169+93	LT	84	PEDESTRIAN PATH
F5	'A1'169+56	LT	'A1'169+99	LT	222	PEDESTRIAN PATH
F5	'A1'169+65	CL	'A1'171+22	CL	318	MEDIAN
F6-F7	'C1'233+50	LT	'C1'238+18	LT	474	
F6-F7	'C1'233+50	RT	'C1'237+99	RT	451	
F7-F8	'C1'239+77	RT	'C1'242+42	RT	298	
F7-F8	'C1'239+89	LT	'C1'242+69	LT	355	
F8-F9	'G'12+08	LT	'G'19+37	LT	730	
F10	'14TH'300+00	CL	'14TH'302+48	CL	505	NEW CURBING FOR 14TH AVE CUL-DE-SAC
F11	'14TH'300+93	RT	'14TH'301+44	RT	103	
F12	'14TH'301+93	RT	'14TH'302+34	RT	75	
				ROUNDED TOTAL:	10,280	

608.2013.E006 CONCRETE, TYPE V, 6 INCHES THICK, COLORED AND PATTERN IMPRINTED, SLABS

SHEET	BEGIN		END		AREA (SY)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
F2-F3	'A1'154+00	LT	'A1'160+36	LT	313	
F2	'A1'154+00	CL	'A1'160+66	CL	277	MEDIAN
F2-F3	'A1'154+00	RT	'A1'160+73	RT	533	
F3	'A1'159+99	RT	'A1'161+17	RT	159	PEDESTRIAN REFUGE ISLANDS
F3	'A1'160+61	LT	'A1'160+93	LT	55	PEDESTRIAN REFUGE ISLANDS
F3	'A1'161+44	LT	'A1'162+26	LT	75	PEDESTRIAN REFUGE ISLANDS
F3	'A1'161+79	RT	'A1'162+09	RT	49	PEDESTRIAN REFUGE ISLANDS
F3-F5	'A1'161+90	LT	'A1'168+57	LT	261	PEDESTRIAN PATH
F3-F5	'A1'162+01	CL	'A1'168+72	CL	338	PEDESTRIAN PATH
F3-F5	'A1'162+39	RT	'A1'168+72	RT	554	PEDESTRIAN PATH, FRONTAGE
F5	'A1'168+79	RT	'A1'171+22	RT	189	FRONTAGE
F5	'A1'169+65	CL	'A1'171+22	CL	215	MEDIAN
				ROUNDED TOTAL:	3020	

639.0001.0000 DRIVEWAY

SHEET	STATION	OFFSET	REMARKS
F6	'C1'233+19	RT	
F6	'C1'233+95	LT	
F6	'C1'235+25	LT	
F6	'C1'235+49	RT	
F8	'C1'241+87	LT	44 LF OF SPECIAL BACKING CURB IS SUBSIDIARY
F11	'14TH'301+78	RT	
		TOTAL (EA):	6

SUMMARY TABLES

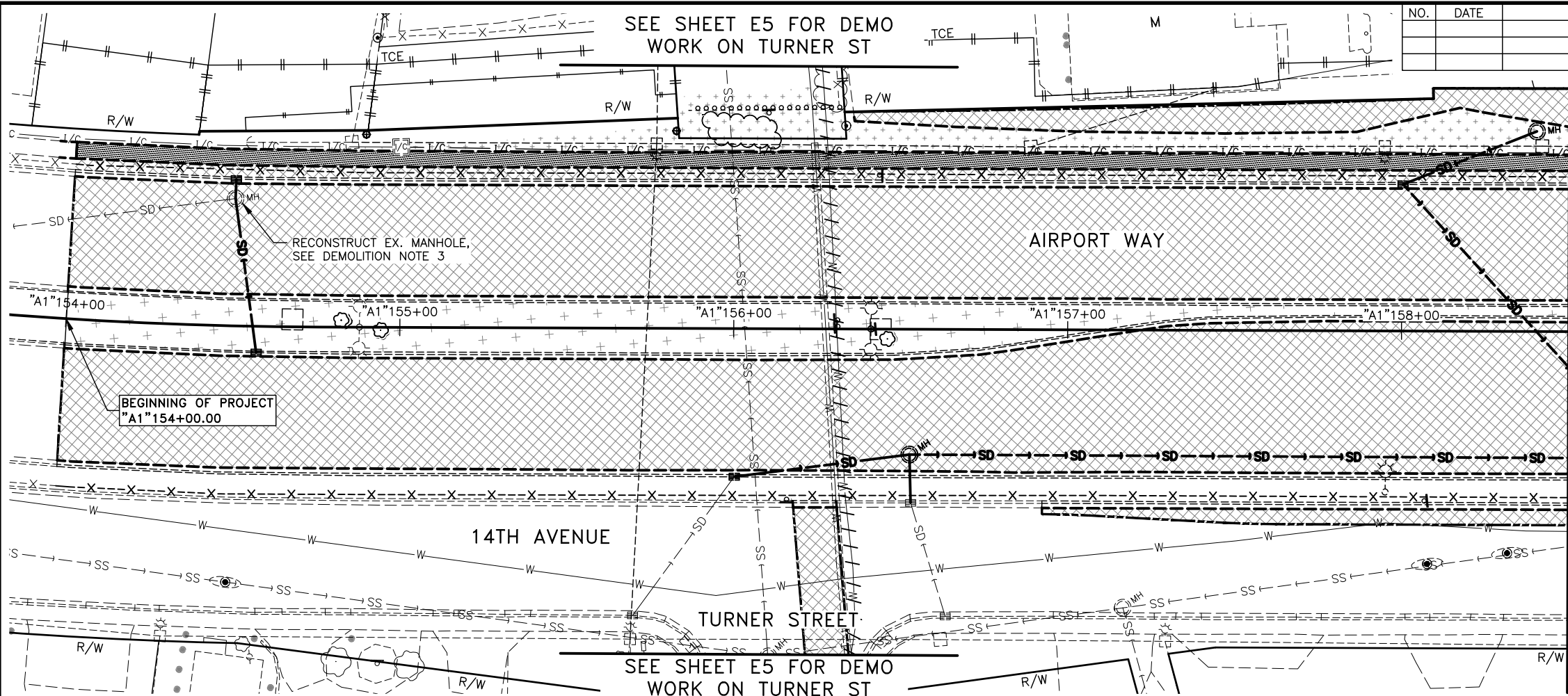
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

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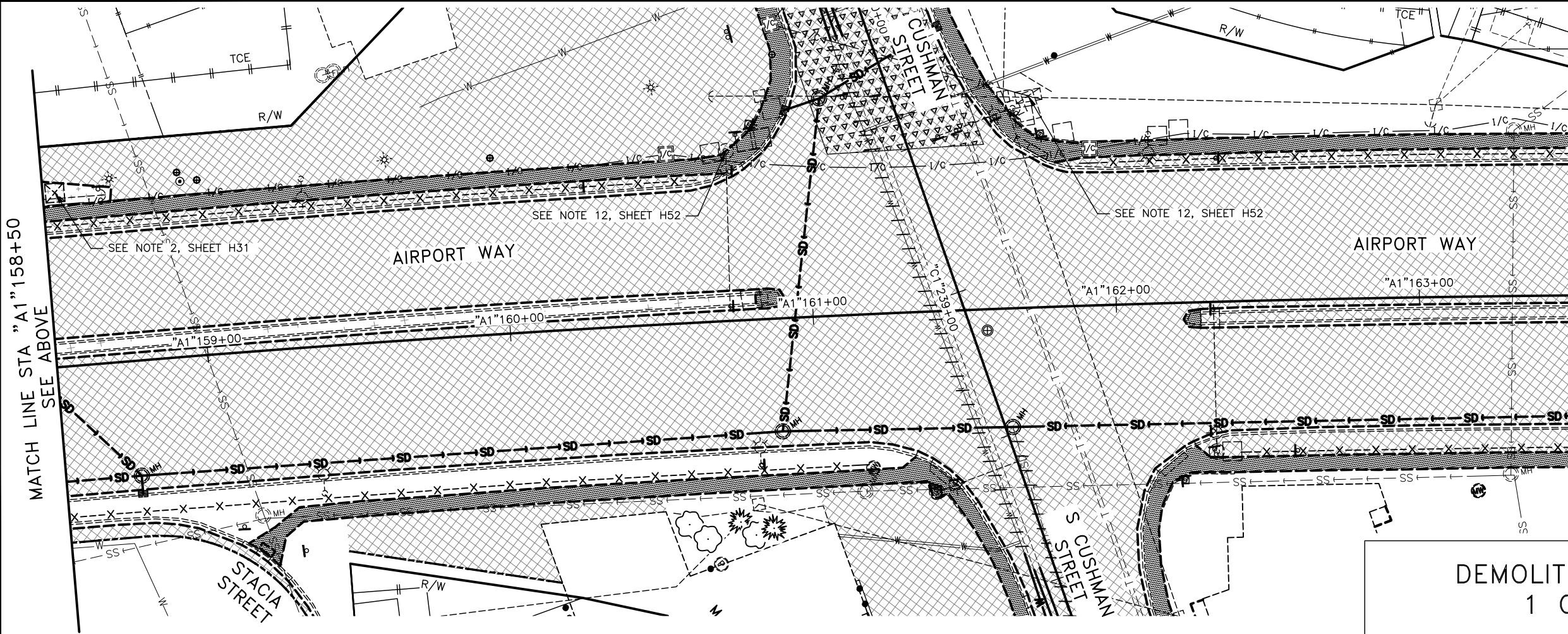
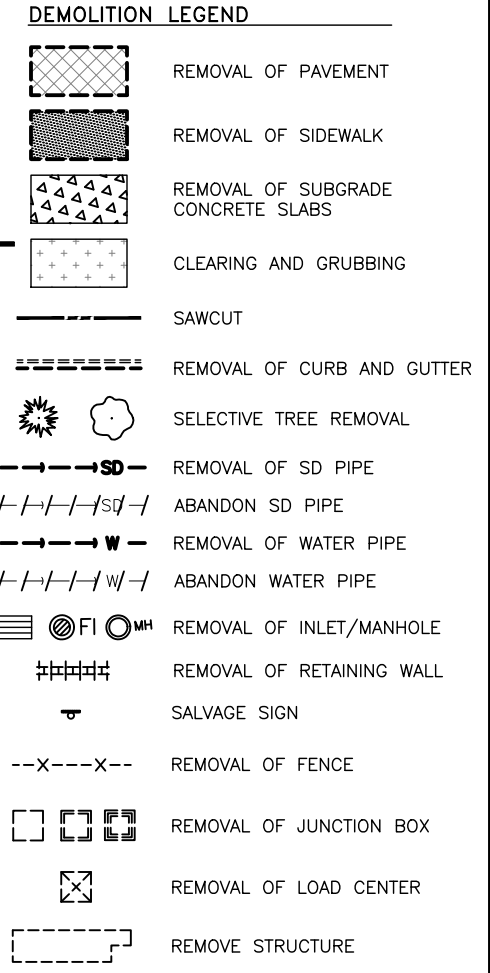
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PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	E1	E9



- DEMOLITION NOTES:**
- EXISTING ASPHALT PAVEMENT THICKNESS MAY VARY DUE TO DEFORMATION AND PREVIOUS ASPHALT PATCHING ACTIVITIES.
 - EXISTING 7" TO 9" THICK CONCRETE SLABS (INCLUDES UP TO 18" THICKENED EDGES AND REBAR ON 24" GRID) UNDERLIE ROADWAY AND CURB AND GUTTER ARE EXPECTED APPROXIMATELY BETWEEN STA. 239+50 AND 243+00, AND ARE TO BE REMOVED. THIS WORK IS PAID FOR UNDER 202.0001.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
 - PRIOR TO WORK, THE CONTRACTOR SHALL RECORD THE AS-BUILT CONDITIONS OF THE EXISTING MANHOLE INCLUDING DIMENSIONS, PIPE DIAMETERS AND DIRECTIONS, AND INVERT AND SUMP ELEVATIONS. PAYMENT FOR THIS WORK WILL BE MADE UNDER ITEM NO. 202.0001.000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
 - SUPPORT AND PROTECT EXISTING UNDERGROUND UTILITIES ENCOUNTERED DURING WORK WHICH ARE NOT SCHEDULED FOR REMOVAL OR ABANDONMENT.
 - PROTECT ALL EXISTING I/C FIBER OPTIC CABLE. REMOVAL OF VAULTS, POLYURETHANE FOAM DUCT SEALANT, CONDUIT, AND OTHER I/C ITEMS IN CONFLICT WITH THE CONSTRUCTION OF NEW I/C IS SUBSIDIARY TO 662.2005.0000 FIBER OPTIC SYSTEM COMPLETE. SEE H SHEETS FOR I/C WORK.
 - REMOVE EXISTING STORM DRAIN AND WATER PIPE AND APPURTENANCES THAT ARE IN CONFLICT WITH THE CONSTRUCTION OF NEW STORM DRAIN AND WATER. SEE U SHEETS FOR NEW STORM DRAIN AND WATER WORK.



DEMOLITION PLAN
1 OF 5

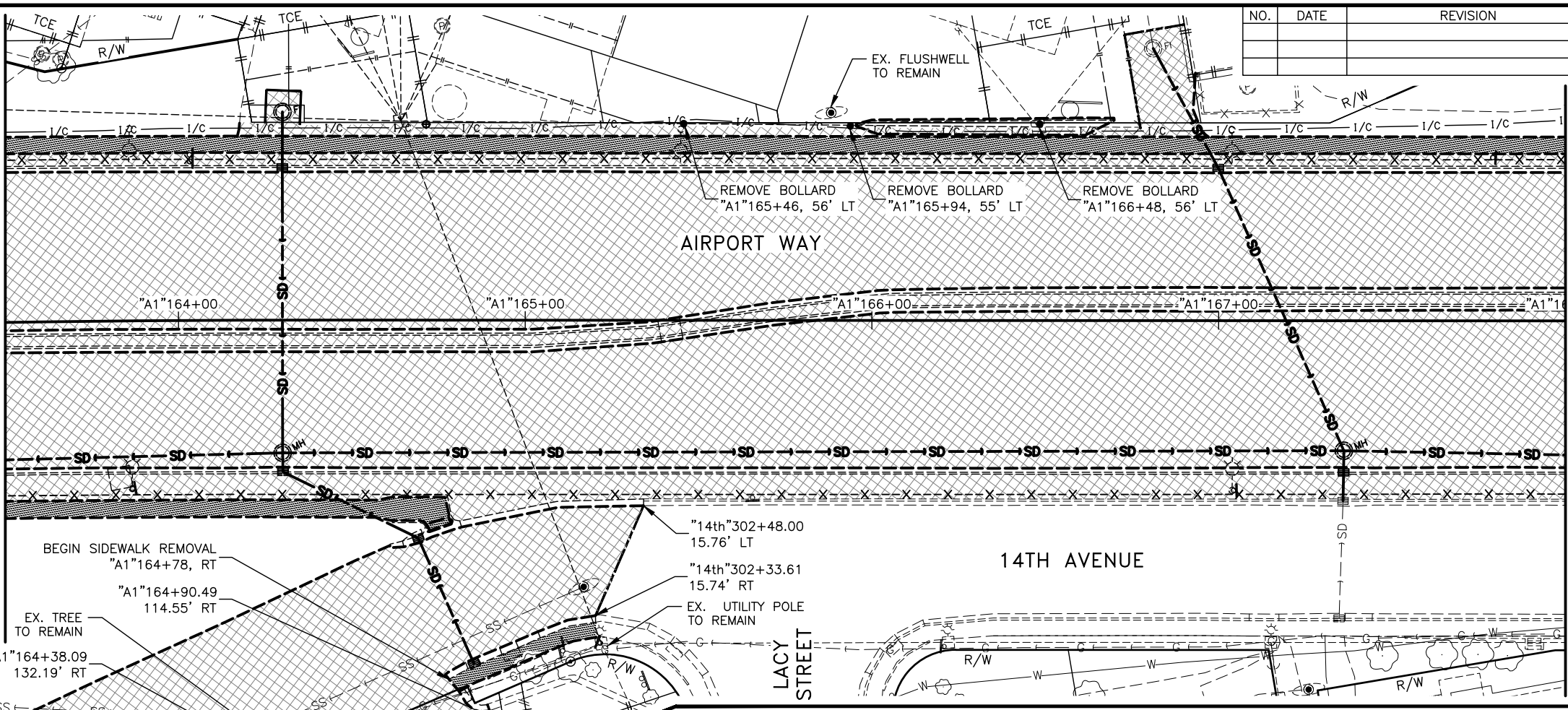
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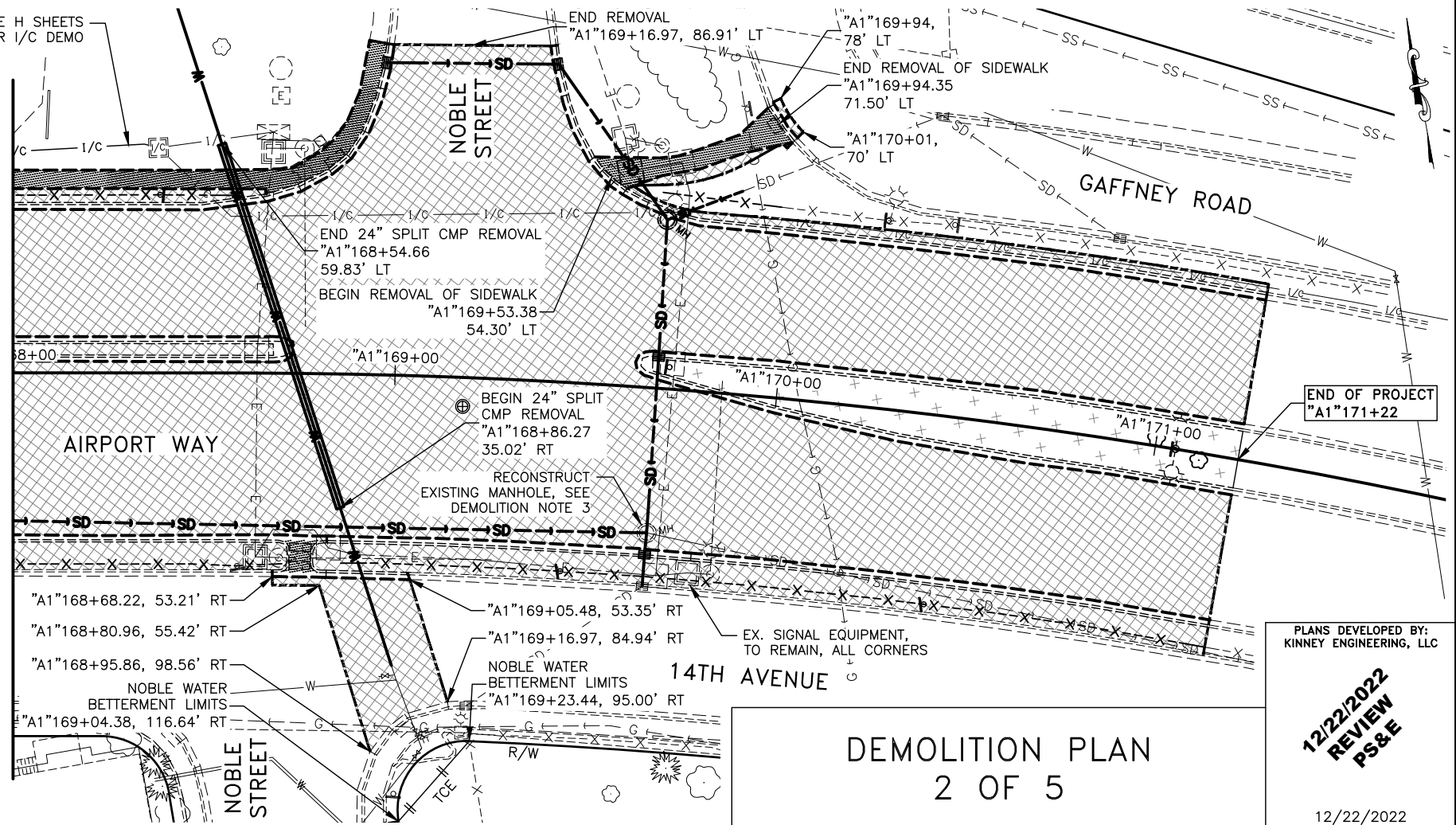
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	E2	E9

MATCH LINE STA "A1" 163+50
SEE SHEET E1

MATCH LINE STA "A1" 168+00
SEE BELOW



MATCH LINE STA "A1" 168+00
SEE ABOVE



DEMOLITION PLAN
 2 OF 5

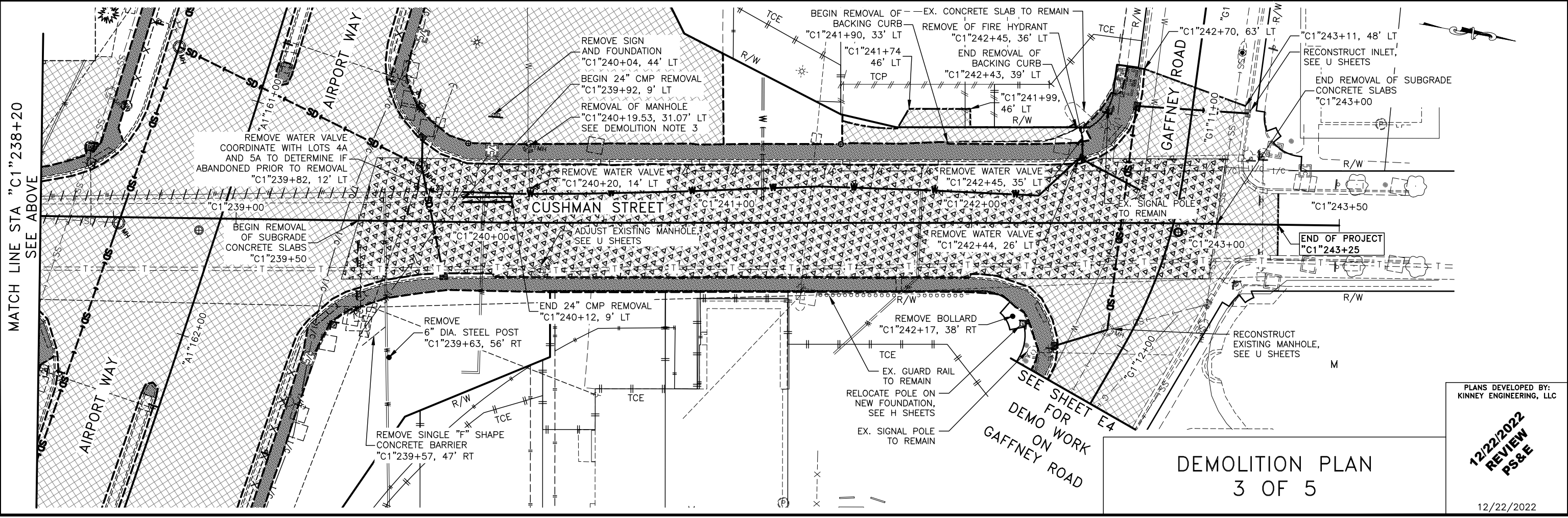
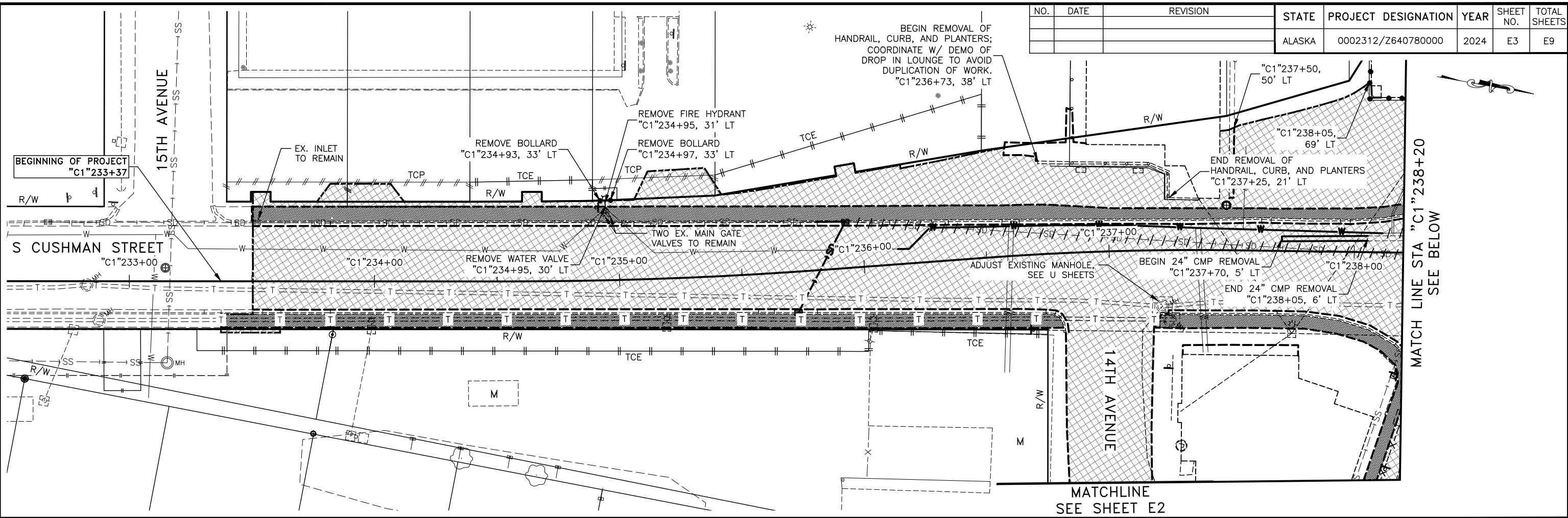
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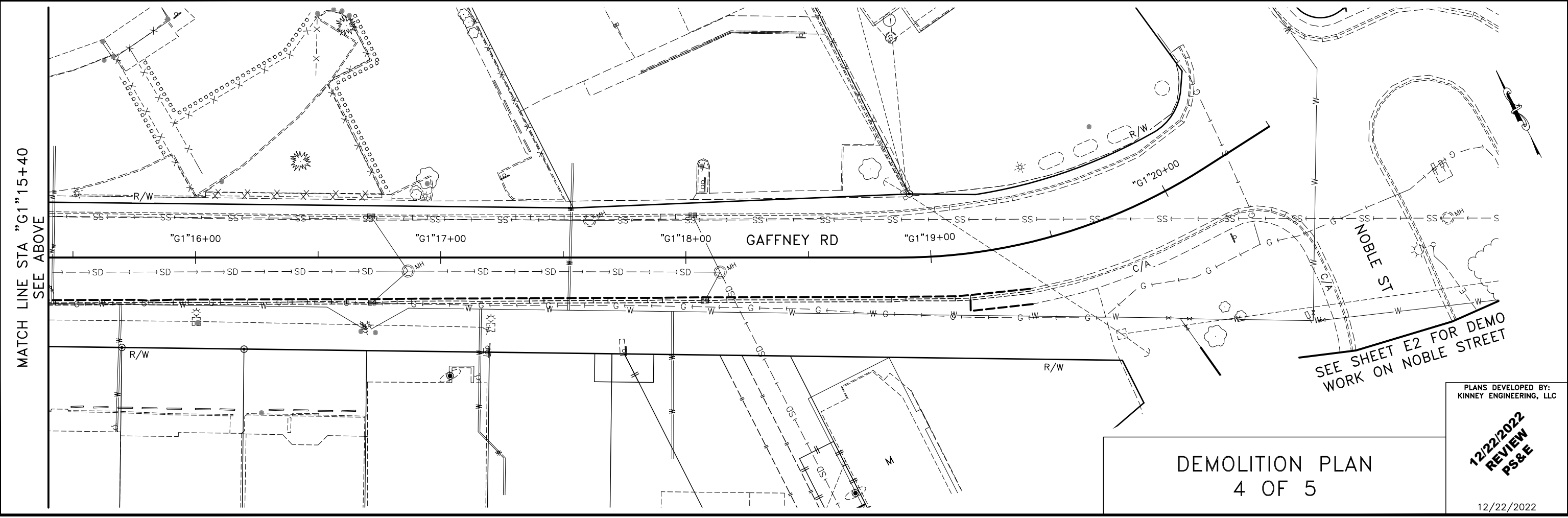
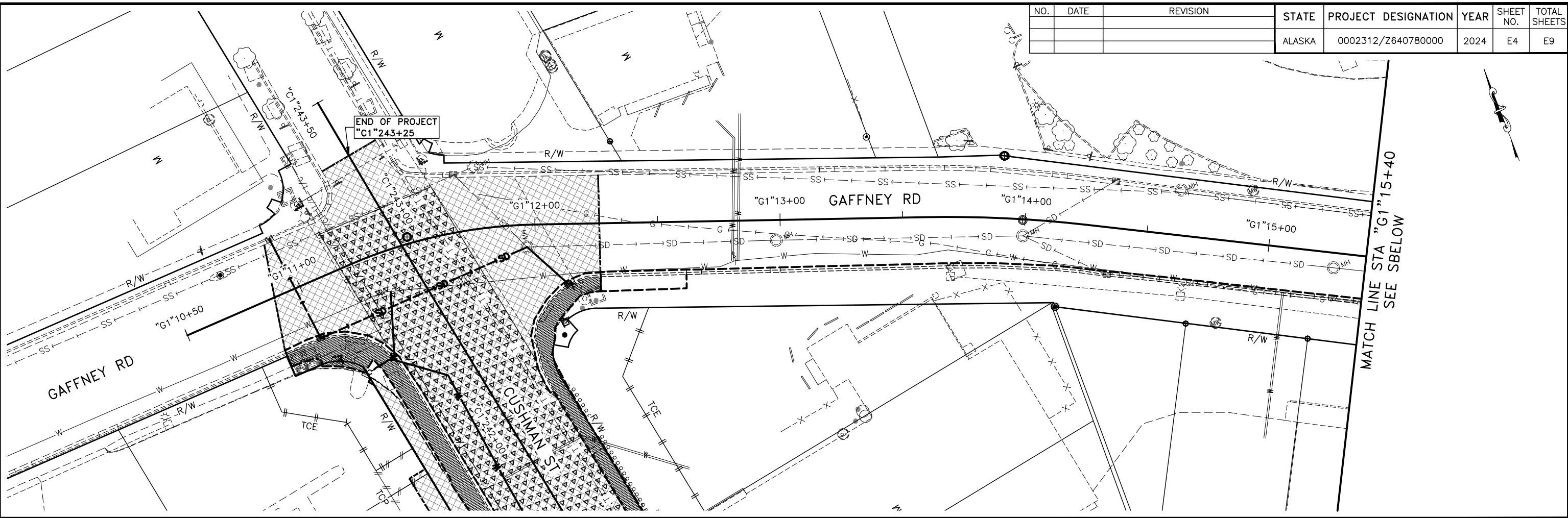


DEMOLITION PLAN
 3 OF 5

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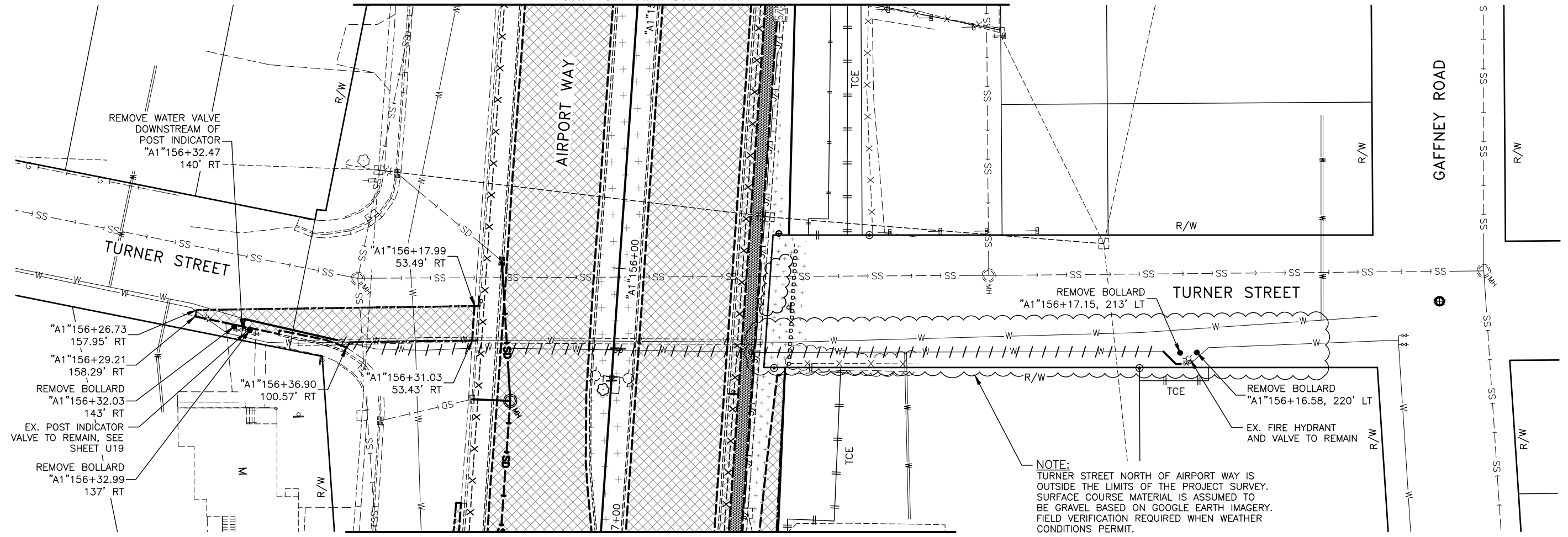


DEMOLITION PLAN
 4 OF 5

PLANS DEVELOPED BY:
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	E5	E9

SEE SHEET E1 FOR DEMO
WORK ON AIRPORT WAY



SEE SHEET E1 FOR DEMO
WORK ON AIRPORT WAY

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(Bill Paddock) KE#: 00385

DEMOLITION PLAN
5 OF 5

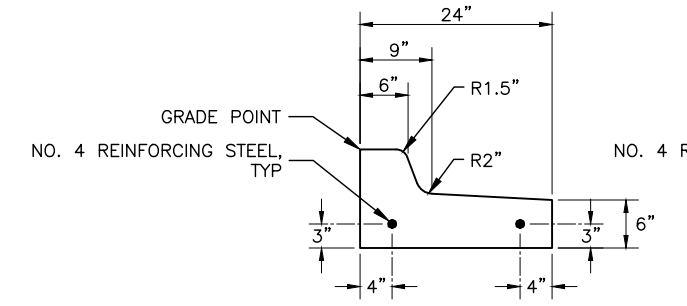
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

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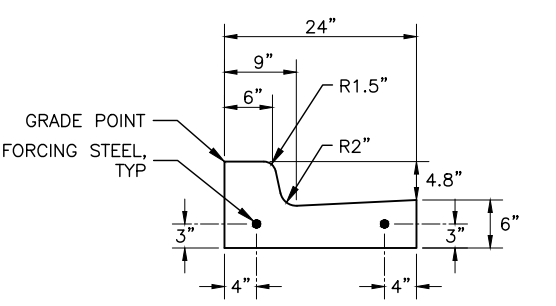
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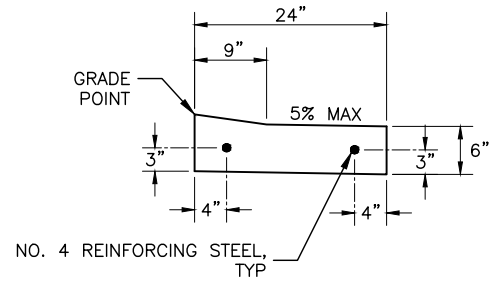
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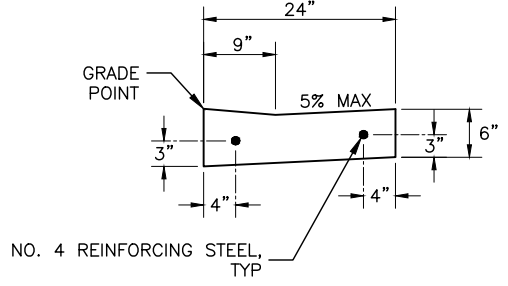
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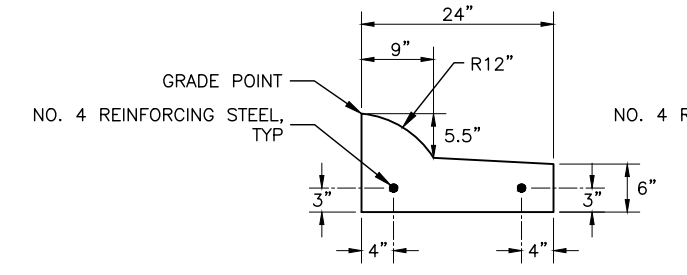
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CATCH



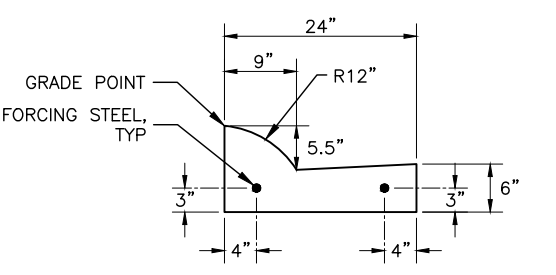
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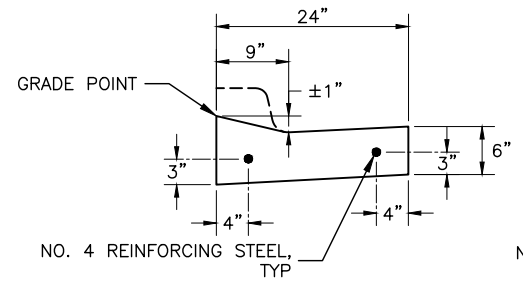
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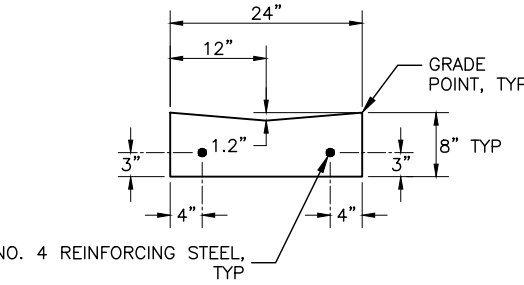
EXPRESSWAY CURB AND GUTTER
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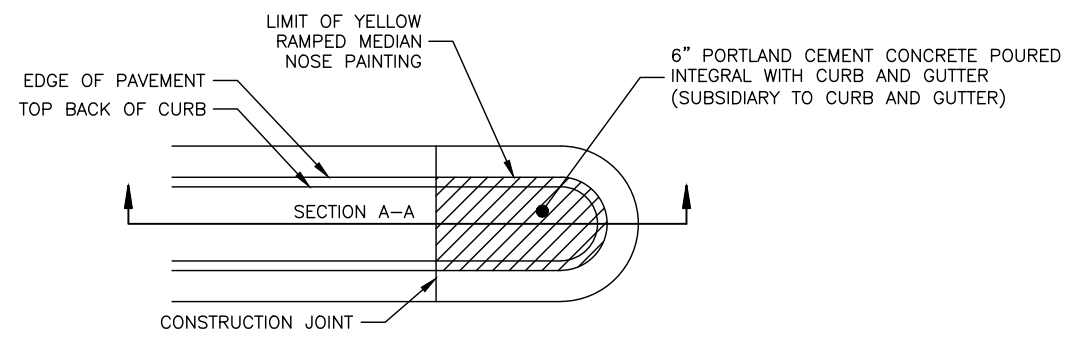
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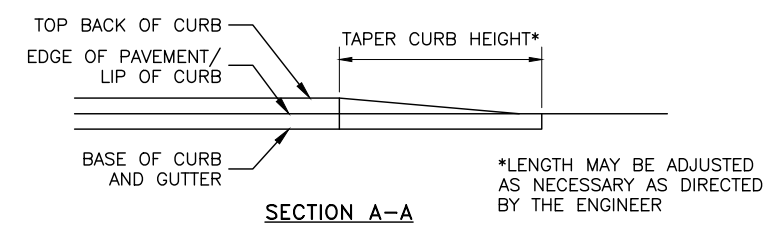
DEPRESSED CURB AND GUTTER
(CURB CUTS ONLY)



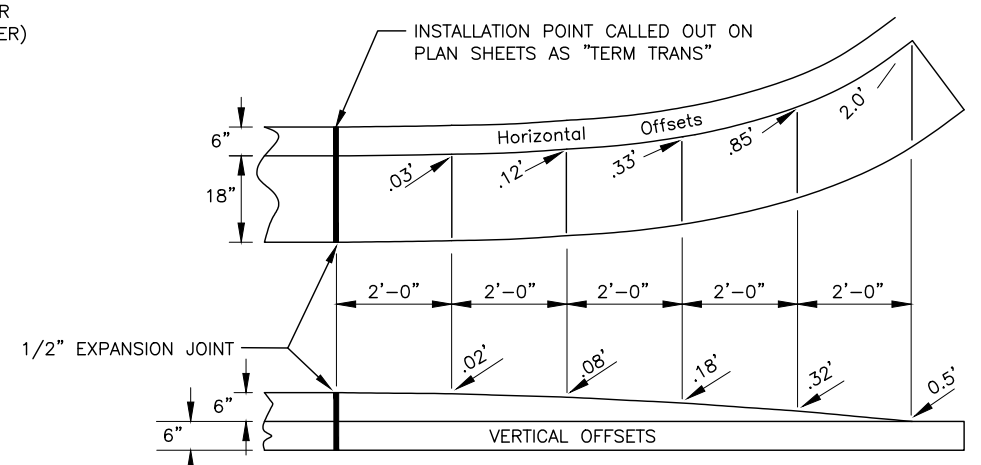
VALLEY GUTTER



RAMP MEDIAN NOSE DETAIL - PLAN VIEW



SECTION A-A



CURB AND GUTTER TERMINATION TRANSITIONS
NTS

CURB AND GUTTER NOTES:

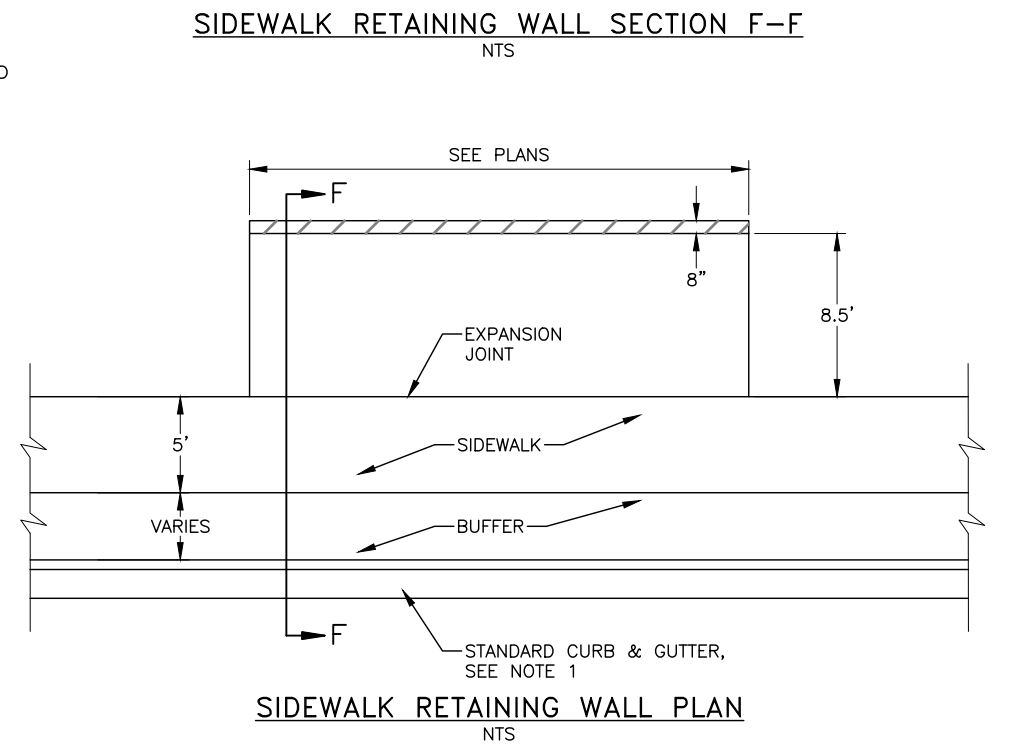
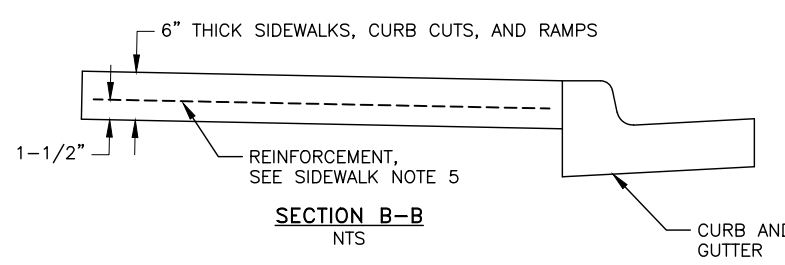
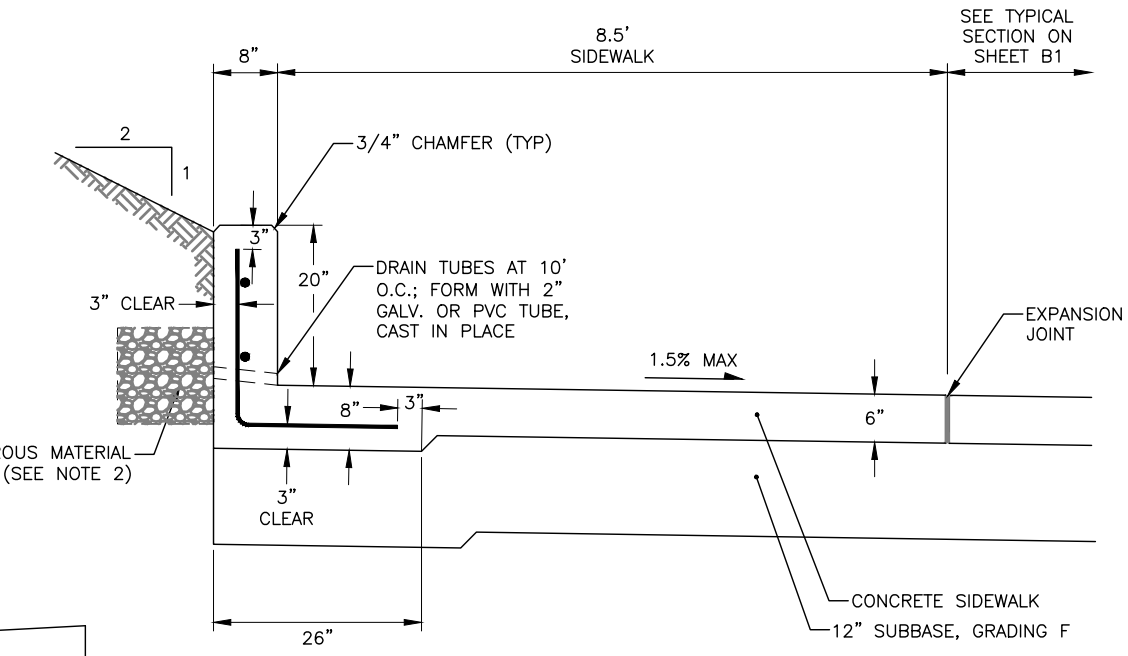
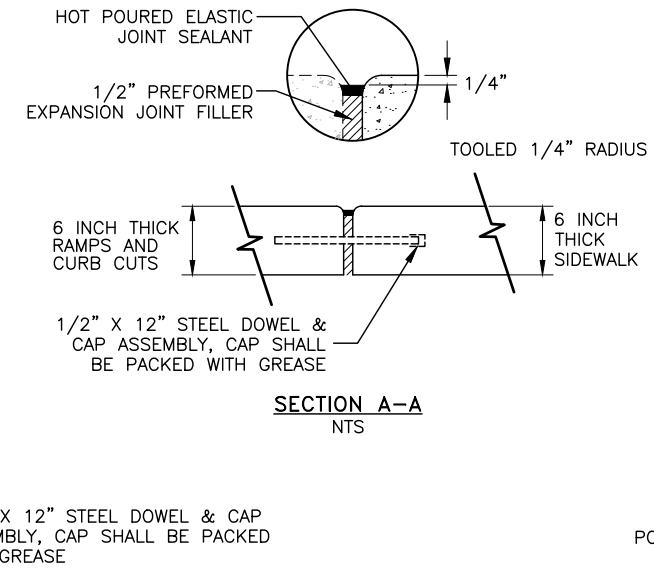
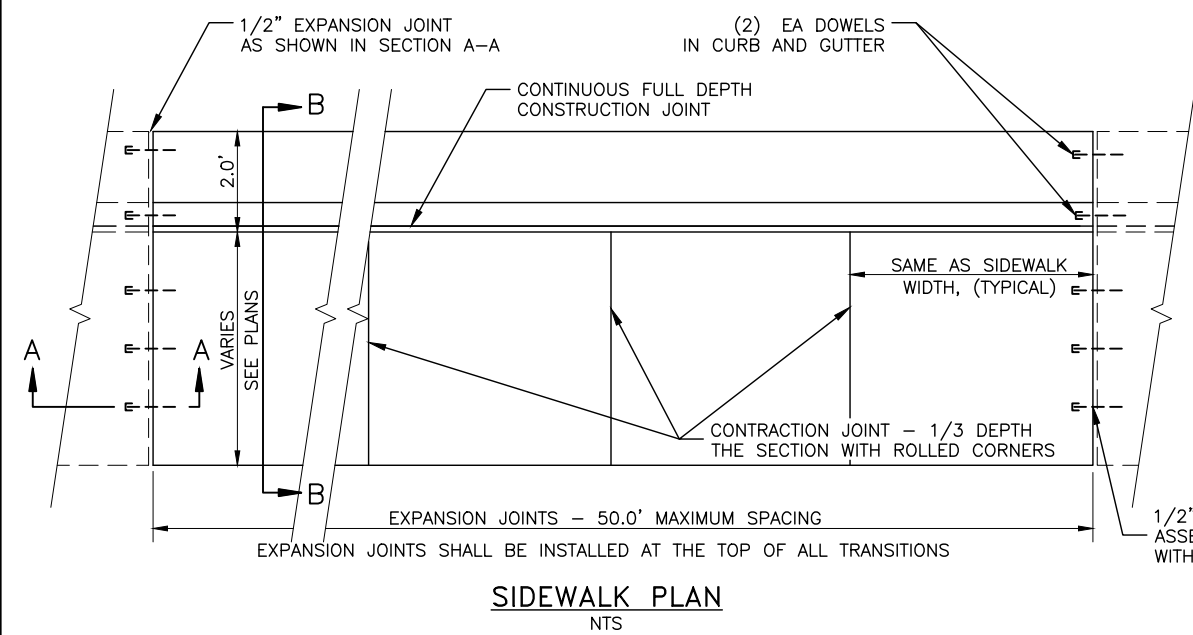
1. ALL CURB AND GUTTER SHAPES SHALL BE REINFORCED.
2. ALL CURB AND GUTTER LAYOUT DIMENSIONS SHOWN ARE TO LIP OF GUTTER AND TOP BACK OF CURB.
3. IN SUPERELEVATED AREAS, THE GUTTER PAN SLOPE SHALL MATCH THE ADJACENT ROADWAY SLOPE.
4. PAYMENT FOR ALL CURB AND GUTTER SHAPES WILL BE MADE UNDER CURB AND GUTTER, TYPE 1

CURB AND GUTTER
DETAILS

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOT\F\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_E6-E7_CONC DETAILS-E7_Thu, Dec/22/22 10:37am KE#: 00385 (Bill Paddock)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	E7	E9

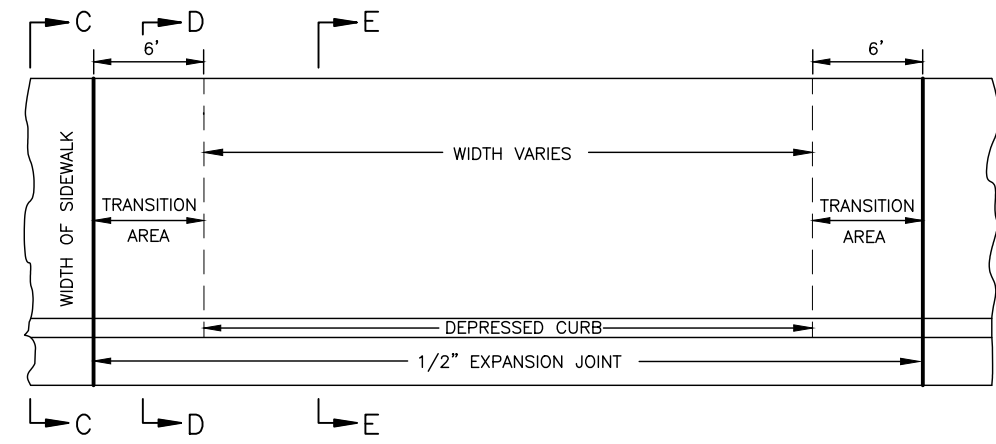


SIDEWALK NOTES:

- CURB CUTS AND RAMPS SHALL BE 6" THICK TO INCLUDE TRANSITIONS.
- PROTECT CONCRETE DURING CURE TIME.
- CONCRETE SHALL RECEIVE A MEDIUM BROOMED FINISH RUNNING PERPENDICULAR TO THE CURB RAMP RUNS AND UPPER LANDINGS AND PARALLEL TO DIRECTION OF TRAVEL ON LOWER LANDINGS.
- FOR SIDEWALKS LARGER OR DIFFERENTLY CONFIGURED THAN SHOWN, PLACE EXPANSION AND CONTRACTION JOINTS AS DIRECTED BY ENGINEER.
- TYPICAL SIDEWALK REINFORCEMENT SHALL BE 6" X 6" - W2.9 X W2.9 WMM. ALL STEEL SHALL BE SET ON SPACERS AND PULLED UP AS REQUIRED TO POSITION STEEL 1-1/2" FROM BOTTOM OF SIDEWALK.
- SAWCUT ALL MATCH LINES WHERE NEW CONSTRUCTION OF PAVEMENT, SIDEWALK, OR CURBING ABUTS EXISTING FEATURES. WORK IS SUBSIDIARY TO 202 PAY ITEMS.

JOINT NOTES:

- INSTALL CONTINUOUS FULL DEPTH 1/8" CONSTRUCTION JOINT AT ALL LOCATIONS WHERE SIDEWALK AND CURB (ALL TYPES) MEET.
- SEAL ALL EXPANSION JOINTS WITH HOT POURED ELASTIC TYPE JOINT SEAL CONFORMING TO AASHTO M173-60 REQUIREMENTS. RECESS SEALANT 1/4" BELOW THE FINISHED GRADE SURFACE.
- INSTALL 1/2" CONSTRUCTION JOINT BETWEEN NEW CONCRETE AND ADJACENT POLES AND HYDRANTS.
- EXPANSION AND CONSTRUCTION JOINTS IN SIDEWALK SHALL LINE UP WITH EXPANSION AND CONSTRUCTION JOINTS IN CURB.
- ALL MATERIALS REQ'D SHALL BE SUBSIDIARY TO 608 AND 609 PAY ITEMS.



NOTES:

- STANDARD CURB AND GUTTER SECTION NOT INCLUDED IN UNIT BID PRICE FOR RETAINING WALL.
- PLACE ONE CUBIC FOOT OF POROUS BACKFILL MATERIAL AROUND WEEP HOLE AS SHOWN.
- PROVIDE 3/4" CHAMFER AT ALL OUTSIDE EDGES.

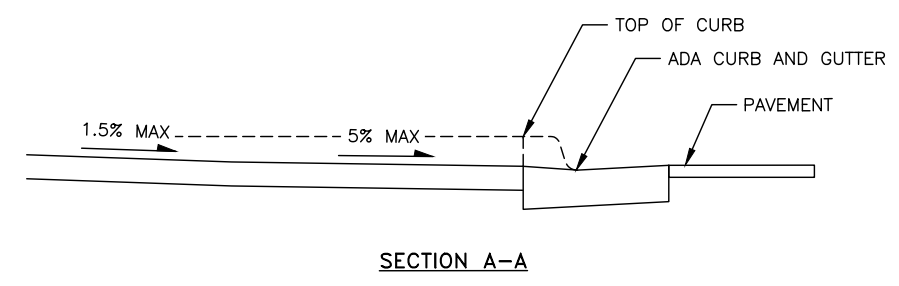
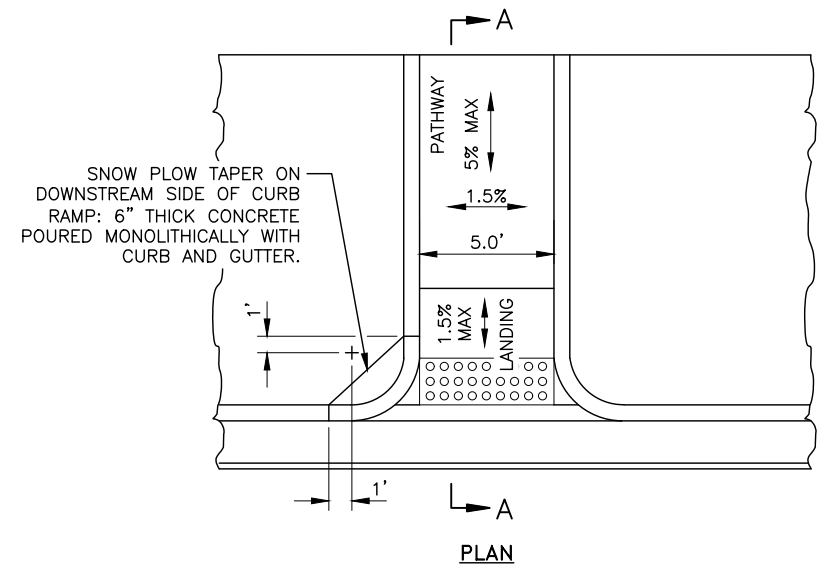
SIDEWALK DETAILS

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
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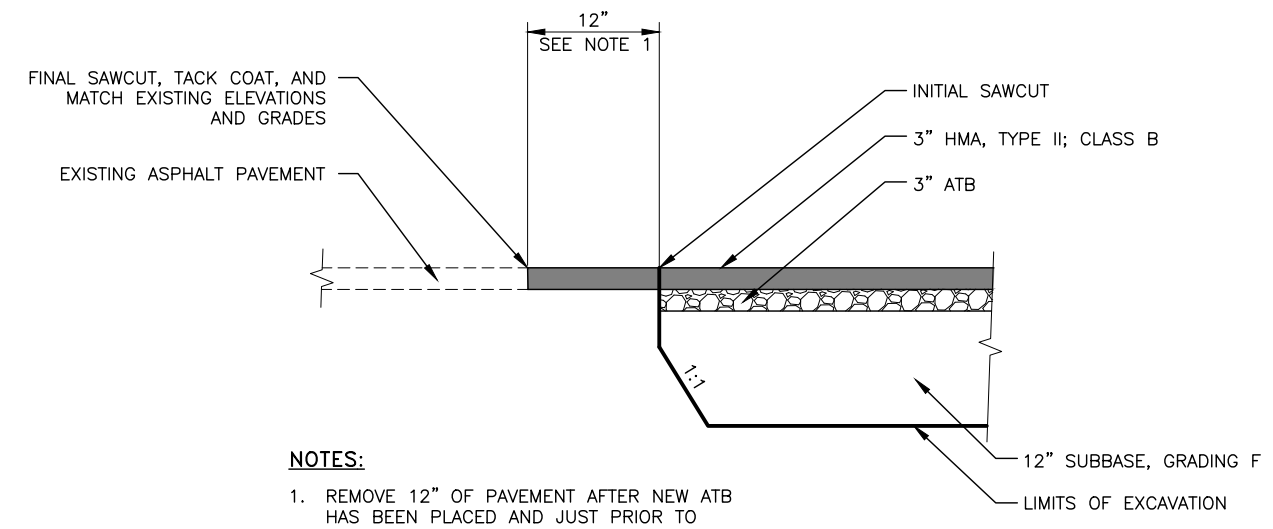
12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_E8-E9_DETAILS-E8_Thu, Dec/22/22, 10:37am
 (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	E8	E9

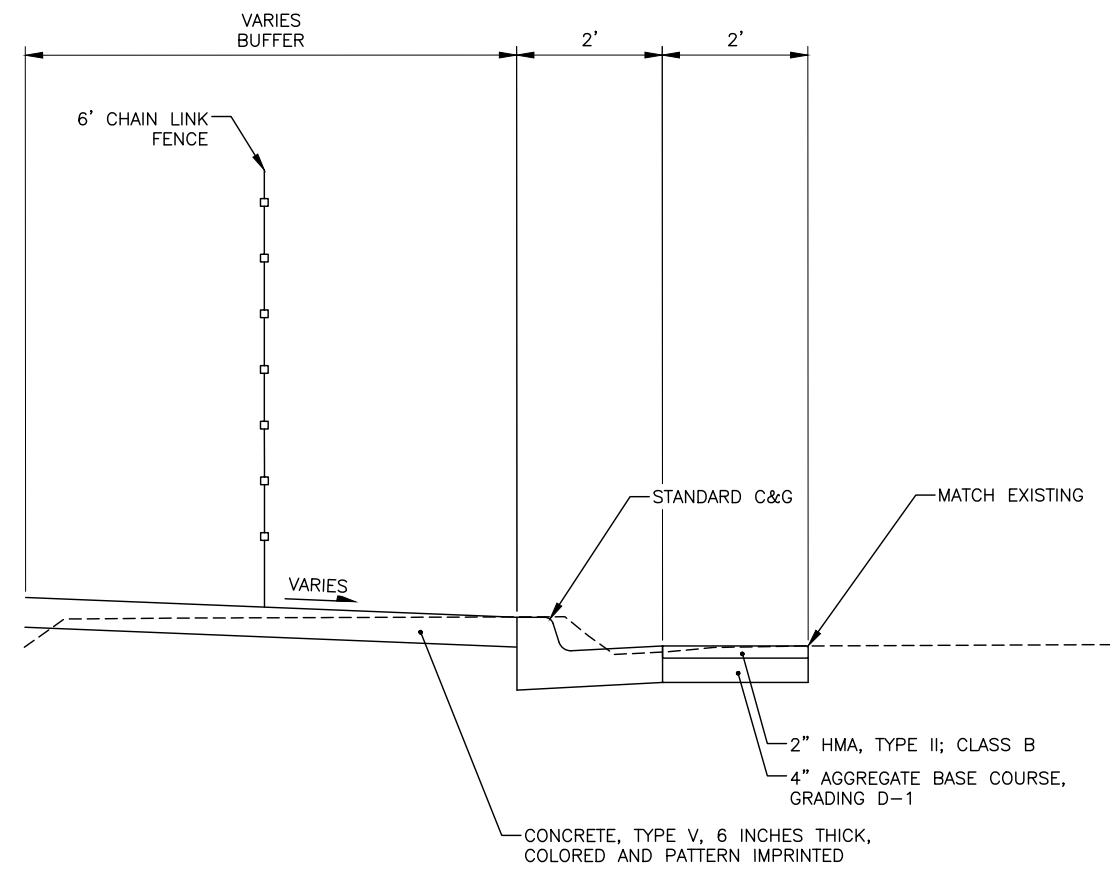


PEDESTRIAN PASS THROUGH
NTS



- NOTES:**
- REMOVE 12" OF PAVEMENT AFTER NEW ATB HAS BEEN PLACED AND JUST PRIOR TO PAVING
 - SAWCUT LOCATION SHOWN ON PLANS IS FOR INITIAL SAWCUT.

MATCH EXISTING ASPHALT PAVEMENT
NTS



FRONTAGE ROAD C&G
NTS

MISC DETAILS

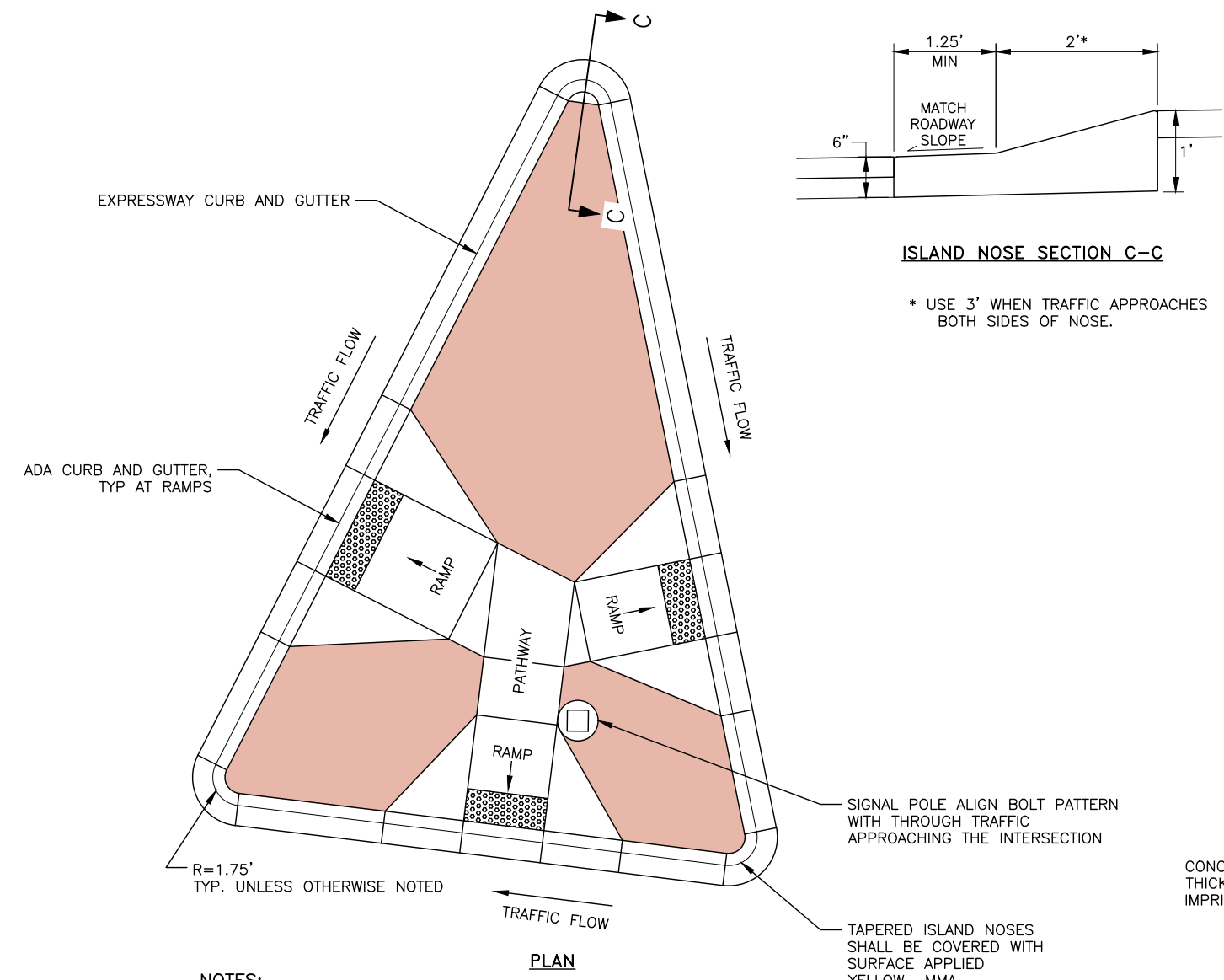
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

**12/22/2022
REVIEW
PS&E**

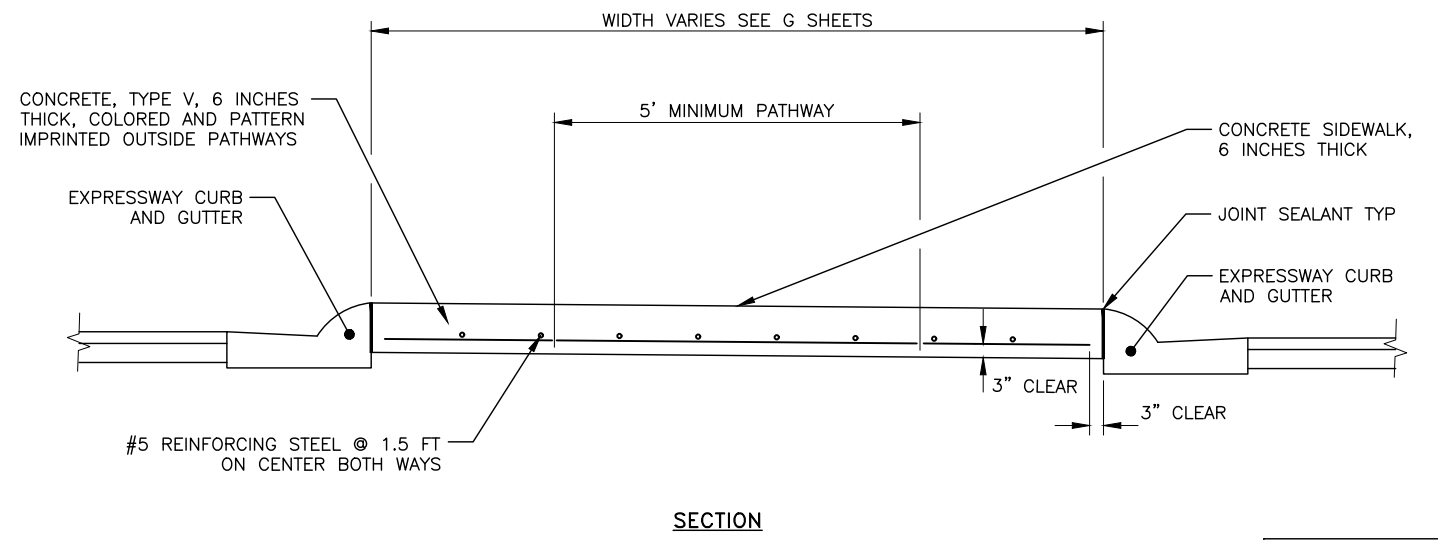
12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	E9	E9



- NOTES:**
1. SEE G SHEETS FOR GRADING AND LAYOUT POINTS.
 2. SEE H SHEETS FOR SIGNAL POLE AND SIGN PLACEMENT.
 3. LAYOUT POINT ELEVATIONS DO NOT ACCOUNT FOR TAPERED ISLAND NOSES.
 4. TAPER ALL ISLAND NOSES FACING ONCOMING TRAFFIC.
 5. PATHWAY GRADE SHALL BE 2.0% MAX IN ALL DIRECTIONS.
 6. SHAPING ISLAND NOSES IS SUBSIDIARY TO PAY ITEM 609.0002.0001 CURB AND GUTTER, TYPE 1.
 7. MARKING ISLAND NOSES IS SUBSIDIARY TO PAY ITEM 670.2010.0000 MMA PAVEMENT MARKINGS.
 8. PATHWAY CONCRETE BROOM FINISH SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL.
 9. RAMPS SHALL MEET REQUIREMENTS OF AK STANDARD PLAN I-22.11.



SPLITTER ISLAND
NTS

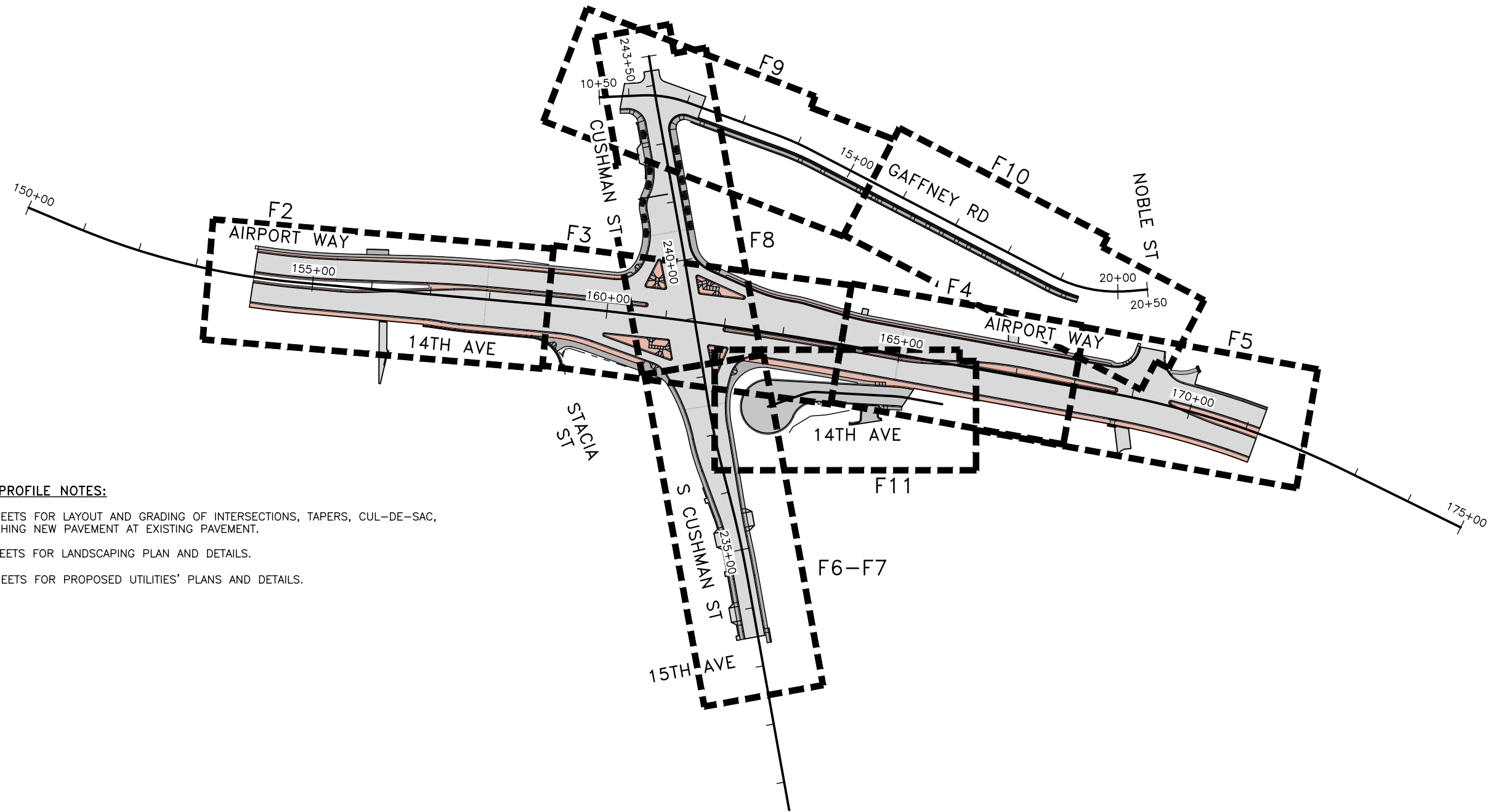
MISC DETAILS

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KINNEY ENGINEERING, LLC

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REVIEW
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12/22/2022

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	F1	F11



PLAN AND PROFILE NOTES:

1. SEE G SHEETS FOR LAYOUT AND GRADING OF INTERSECTIONS, TAPERS, CUL-DE-SAC, AND MATCHING NEW PAVEMENT AT EXISTING PAVEMENT.
2. SEE L SHEETS FOR LANDSCAPING PLAN AND DETAILS.
3. SEE U SHEETS FOR PROPOSED UTILITIES' PLANS AND DETAILS.

APPROACH KEY

(A) STATION CURB CUT, SIZE

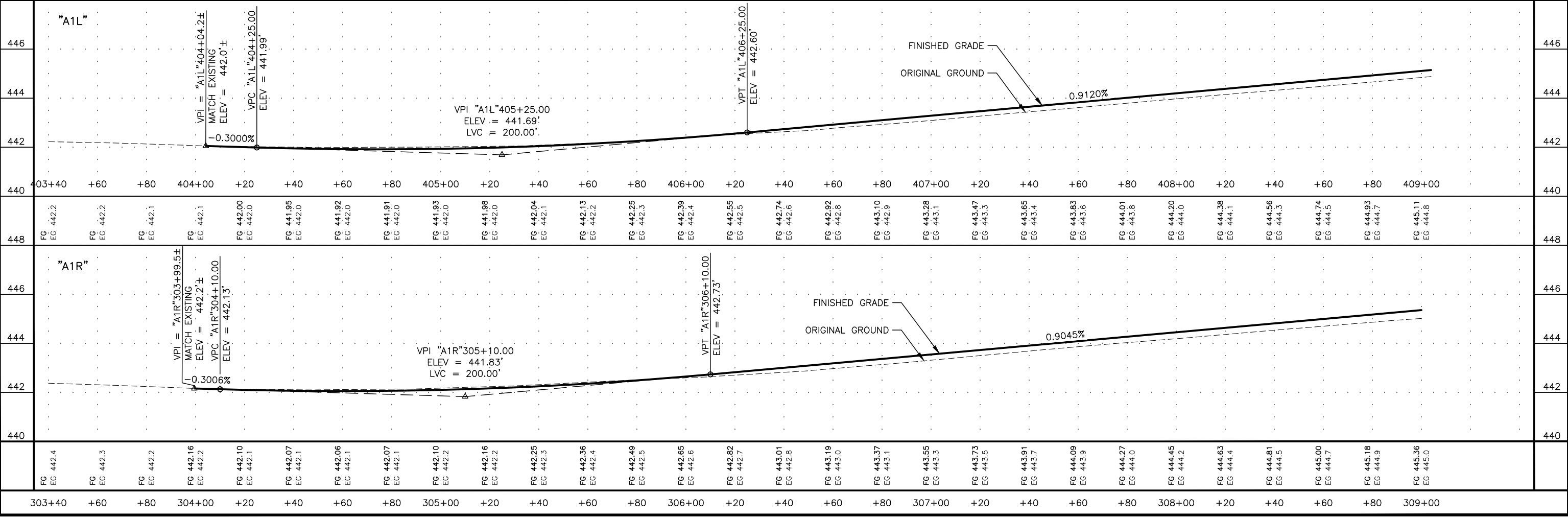
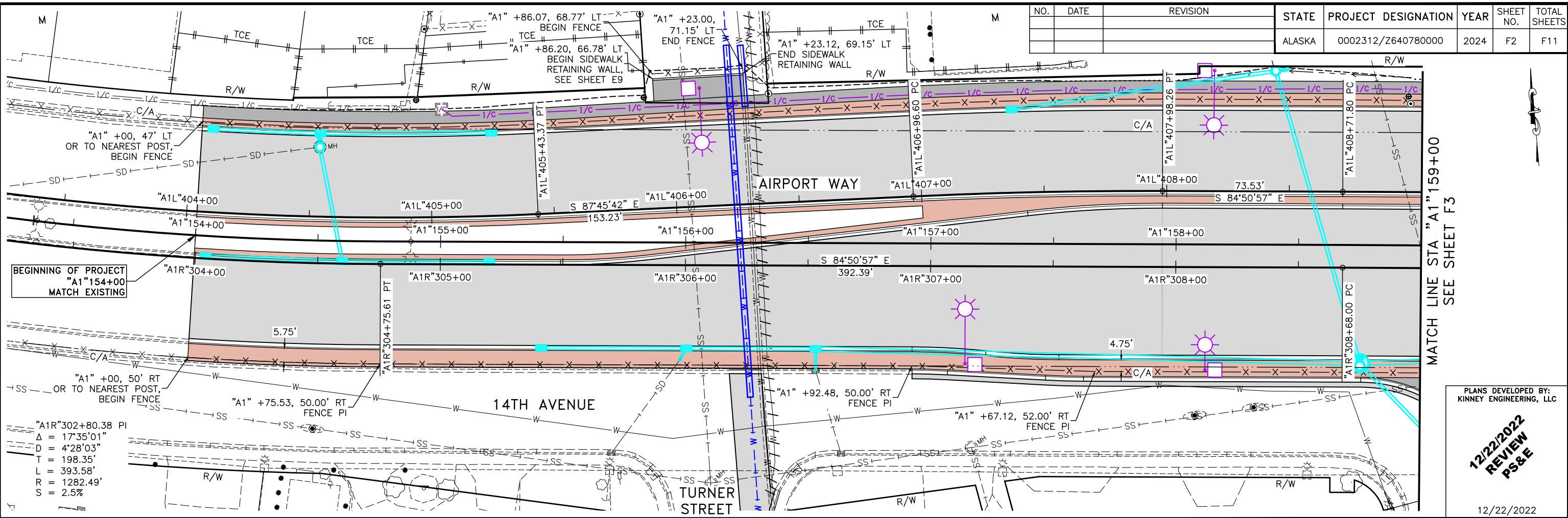
PLAN & PROFILE SHEET LAYOUT

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KINNEY ENGINEERING, LLC

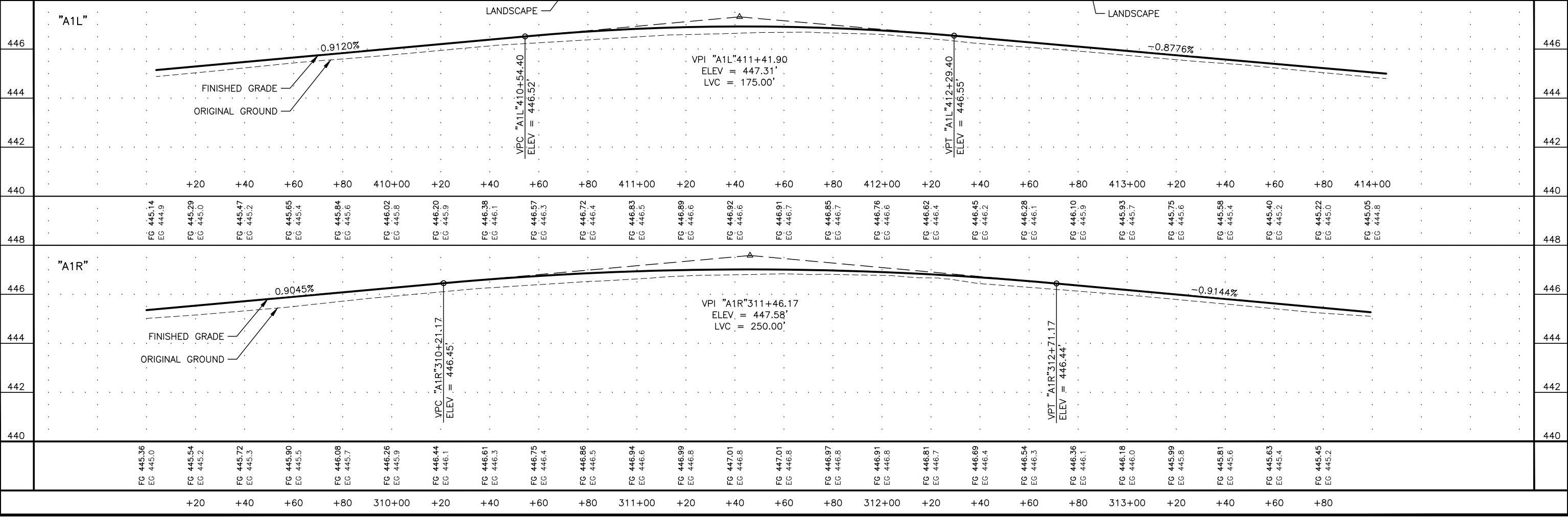
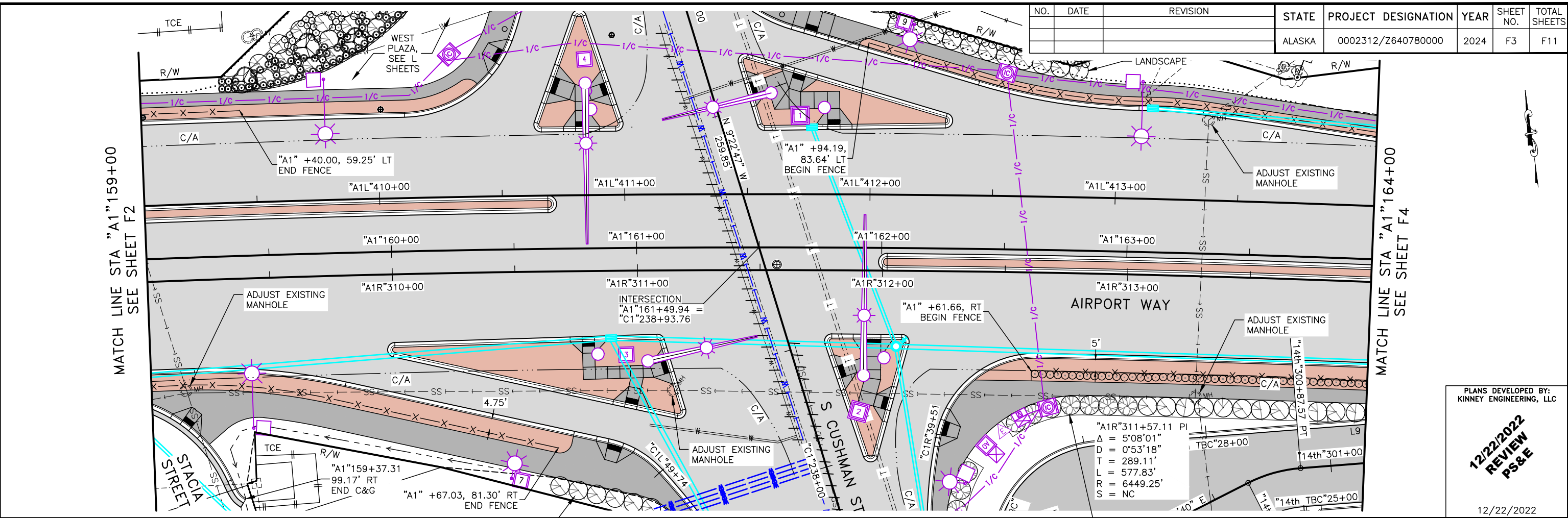
12/22/2022
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12/22/2022

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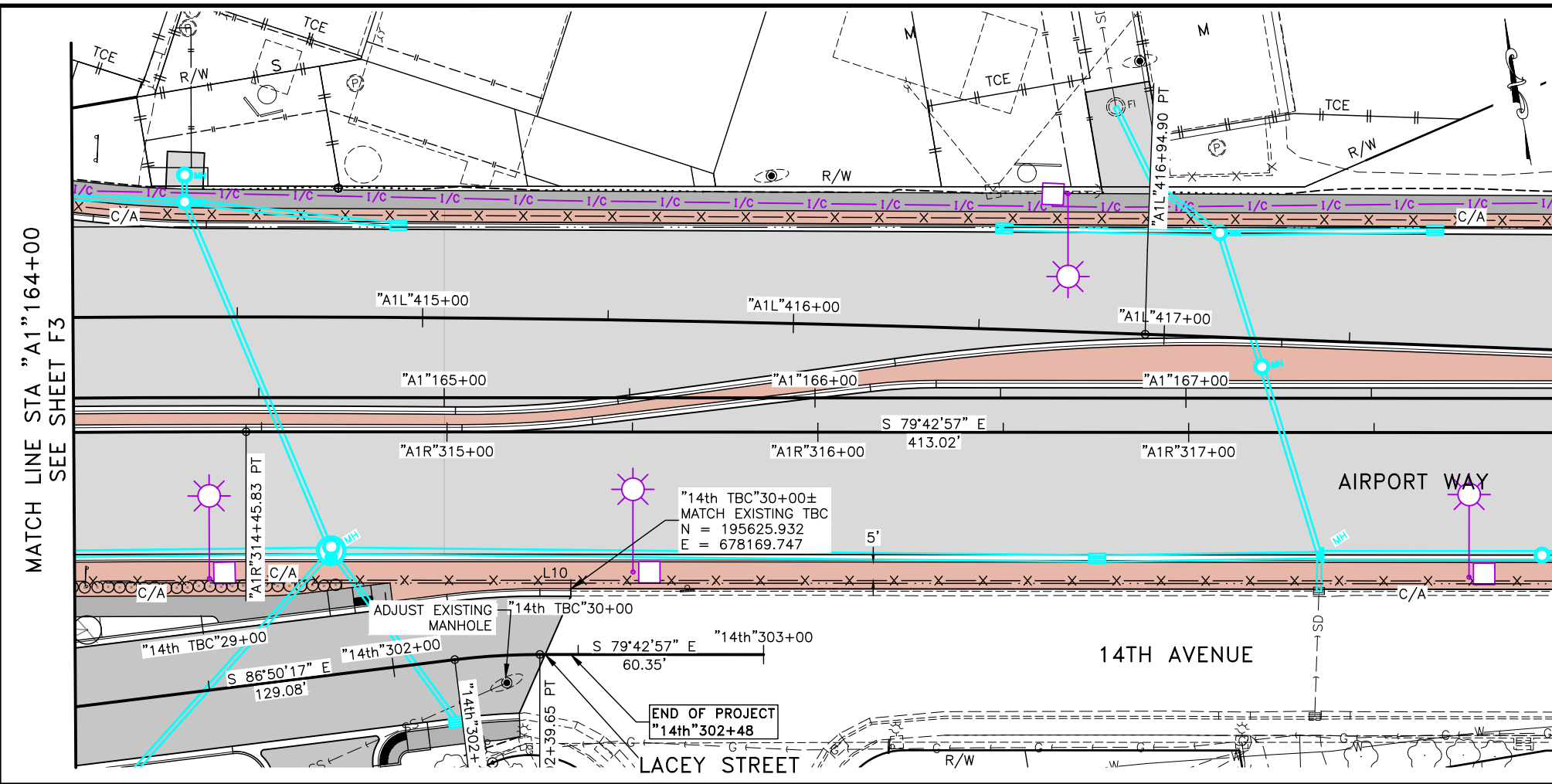


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(Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	F4	F11



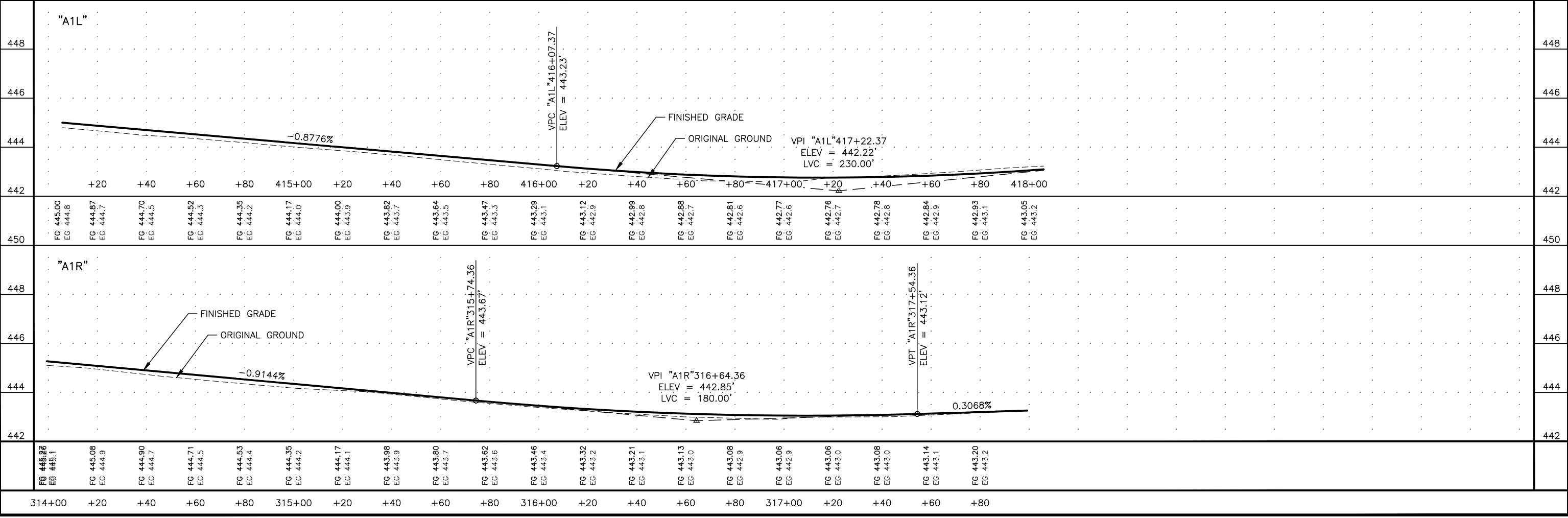
MATCH LINE STA "A1"164+00
SEE SHEET F3

MATCH LINE STA "A1"168+00
SEE SHEET F5

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

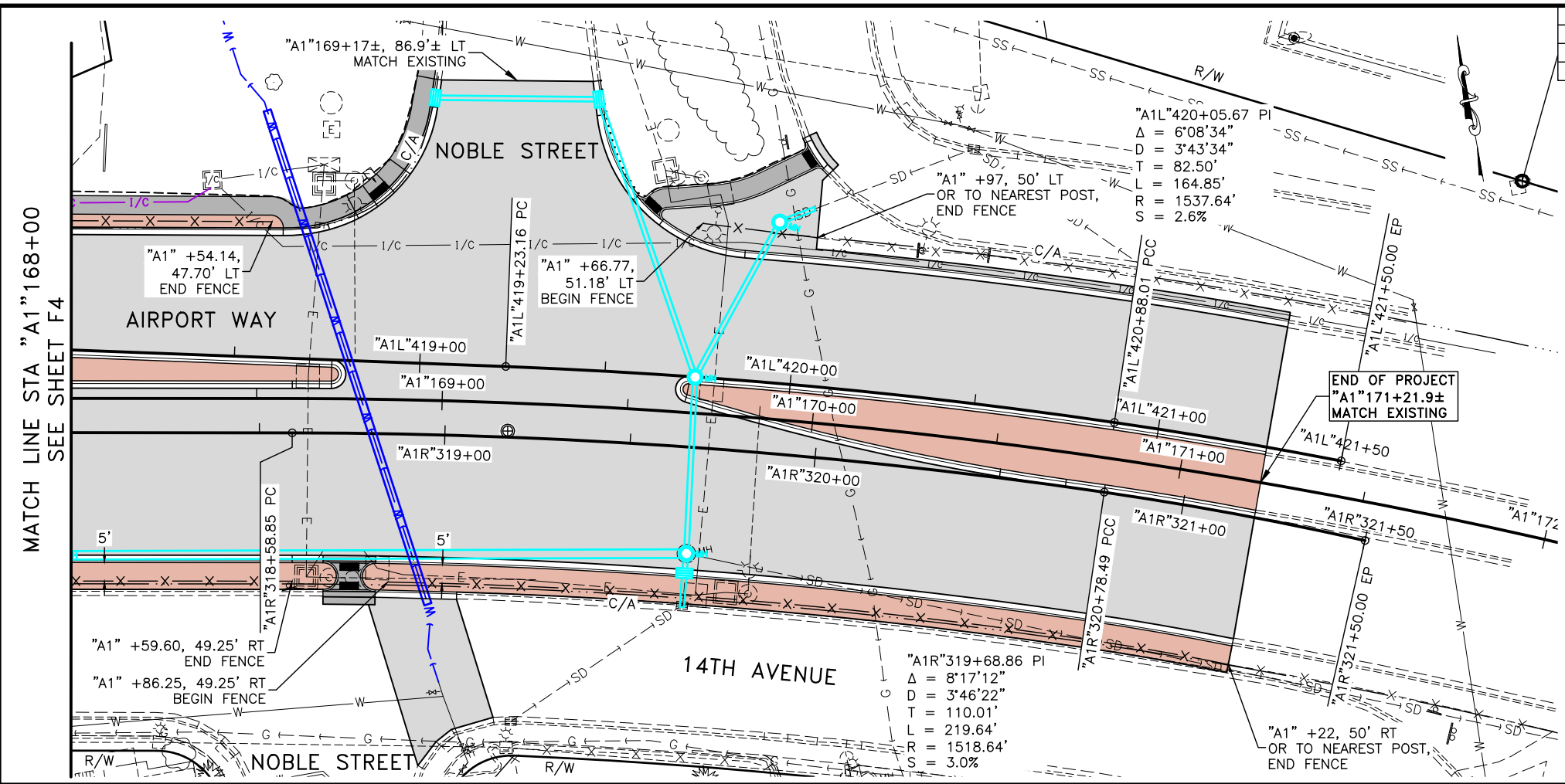
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 (Bill Paddock) KE# 00385

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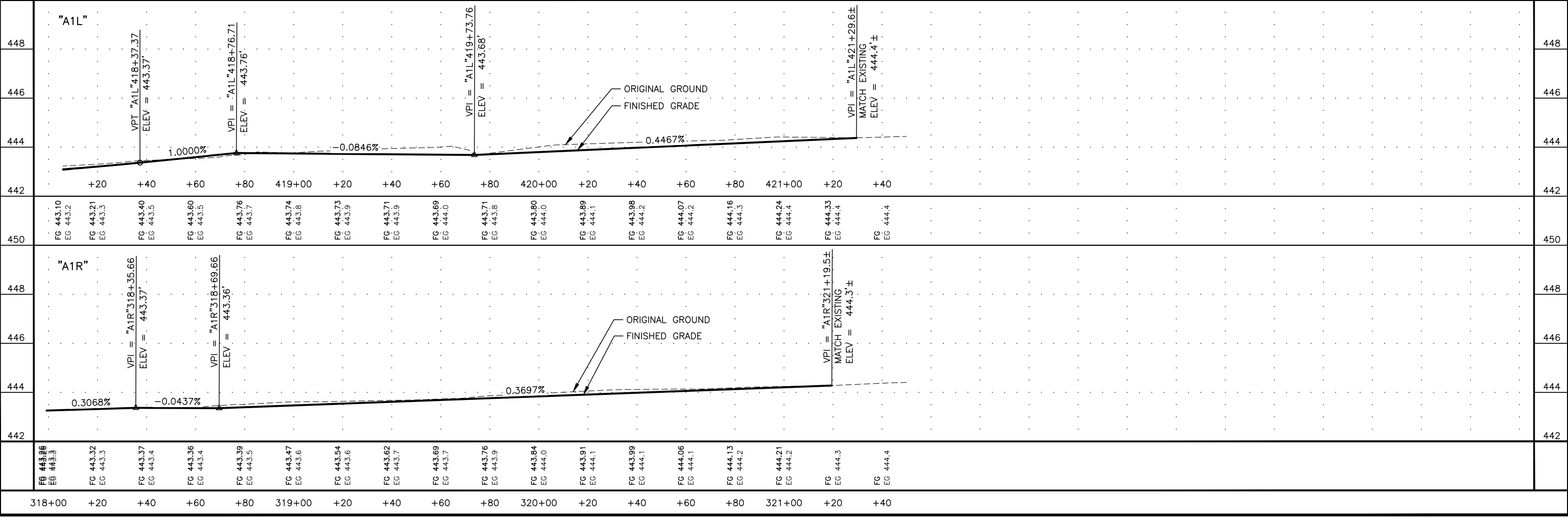
NOTE:

- COORDINATE FINAL DESIGN AND CONSTRUCTION OF MATCH EXISTING AT END OF PROJECT WITH AS-BUILT FOR DOT&PF PROJECT: 0002(385)/NFHWY00245 AIRPORT WAY/STEESE EXPRESSWAY/GAFFNEY ROAD/RICHARDSON HIGHWAY INTERSECTION RECONSTRUCTION

PLANS DEVELOPED BY:
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12/22/2022
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 PS&E

12/22/2022

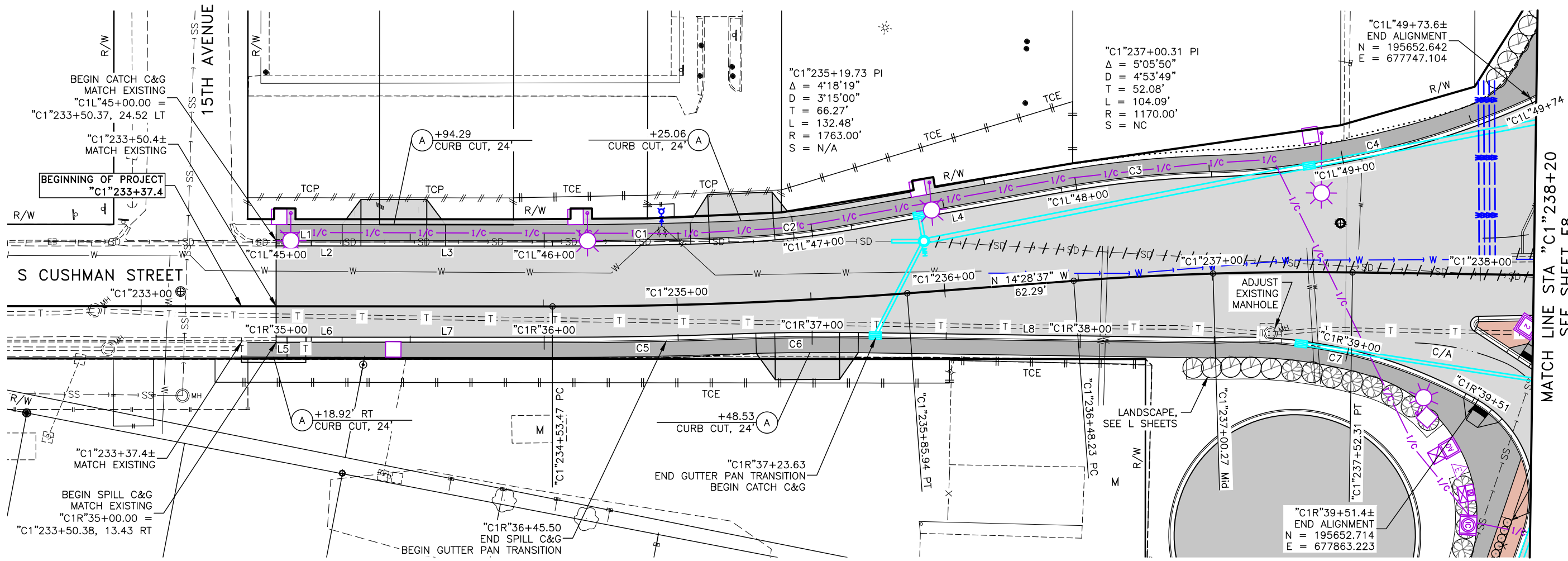


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 (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	F6	F11

SEGMENT	BEGIN STATION	END STATION	BEARING	RADIUS	LENGTH	TANGENT	DELTA ANGLE
L1	45+00.00	45+13.12	N 10°11'27" W		13.12'	N10° 11' 26.82"W	
L2	45+13.12	45+24.63	N 10°01'41" W		11.51'	N10° 01' 40.82"W	
L3	45+24.63	46+03.09	N 10°10'18" W		78.46'	N10° 10' 17.50"W	
C1	46+03.09	46+68.92		1738.50'	65.83'		2°10'11"
C2	46+68.92	47+14.78		331.00'	45.86'		7°56'18"
L4	47+14.78	47+94.40	N 20°16'47" W		79.61'	N20° 16' 46.72"W	
C3	47+94.40	48+50.85		383.00'	56.45'		8°26'42"
C4	48+50.85	49+73.61		309.50'	122.76'		22°43'32"

NOTE:
 1. CONSTRUCT DRIVEWAY APPROACHES AT CURB CUTS USING ADJACENT ROADWAY STRUCTURAL SECTION.

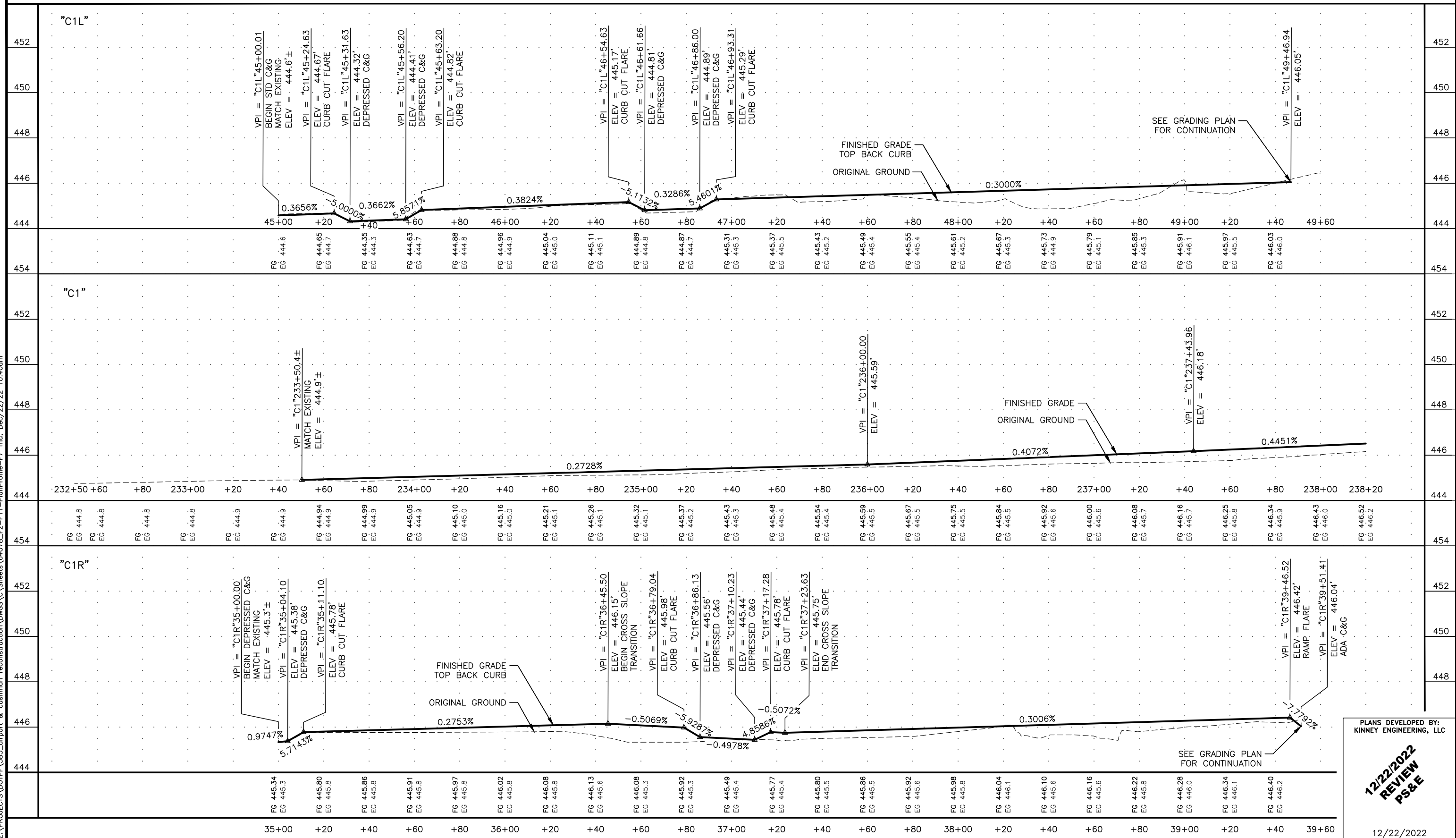


SEGMENT	BEGIN STATION	END STATION	BEARING	RADIUS	LENGTH	TANGENT	DELTA ANGLE
L5	35+00.00	35+13.11	N 10°00'04" W		13.11'	N10° 00' 04.37"W	
L6	35+13.11	35+24.62	N 10°00'15" W		11.51'	N10° 00' 14.91"W	
L7	35+24.62	36+03.08	N 10°10'18" W		78.47'	N10° 10' 17.50"W	
C5	36+03.08	36+70.36		1776.50'	67.27'		2°10'11"
C6	36+70.36	37+17.28		898.00'	46.92'		2°59'37"
L8	37+17.28	38+50.29	N 9°20'51" W		133.01'	N9° 20' 51.22"W	
C7	38+50.29	39+51.41		175.43'	101.12'		33°01'34"

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12/22/2022
REVIEW
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	F7	F11

SEE SHEET F6 FOR PLAN INFORMATION



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KINNEY ENGINEERING, LLC

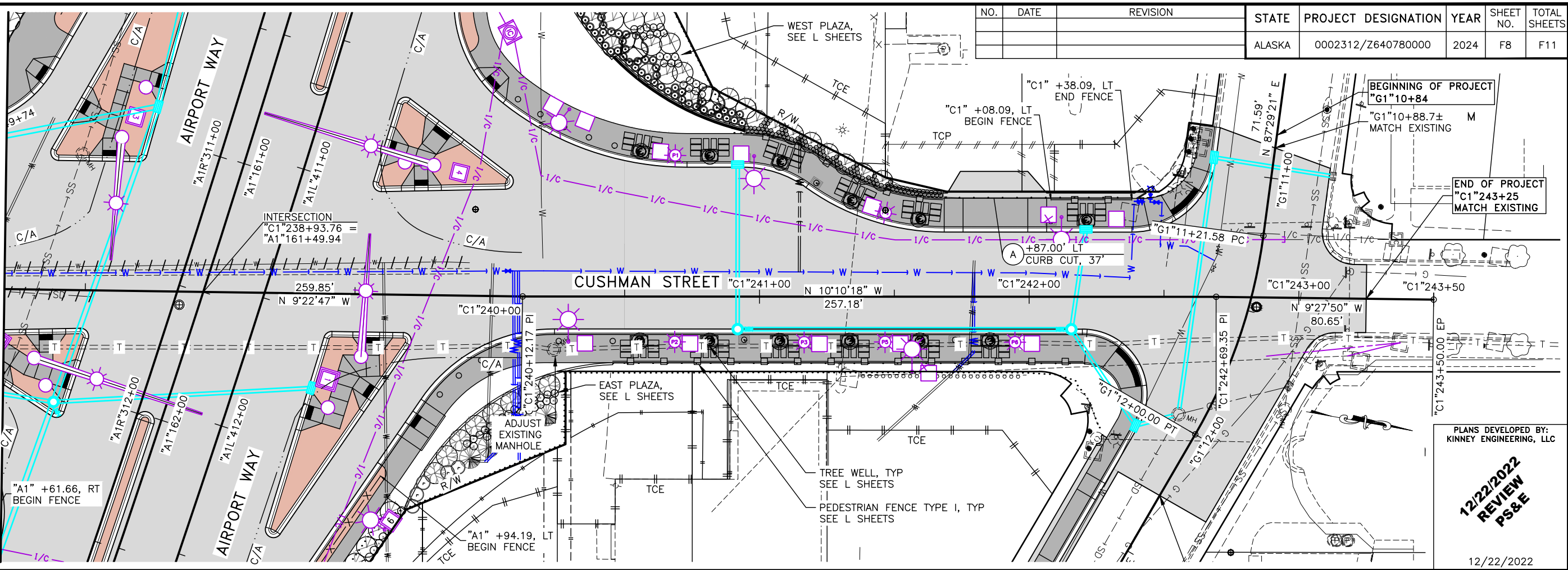
12/22/2022
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12/22/2022

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 (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	F8	F11

MATCH LINE STA "C1" 238+20
 SEE SHEET F8



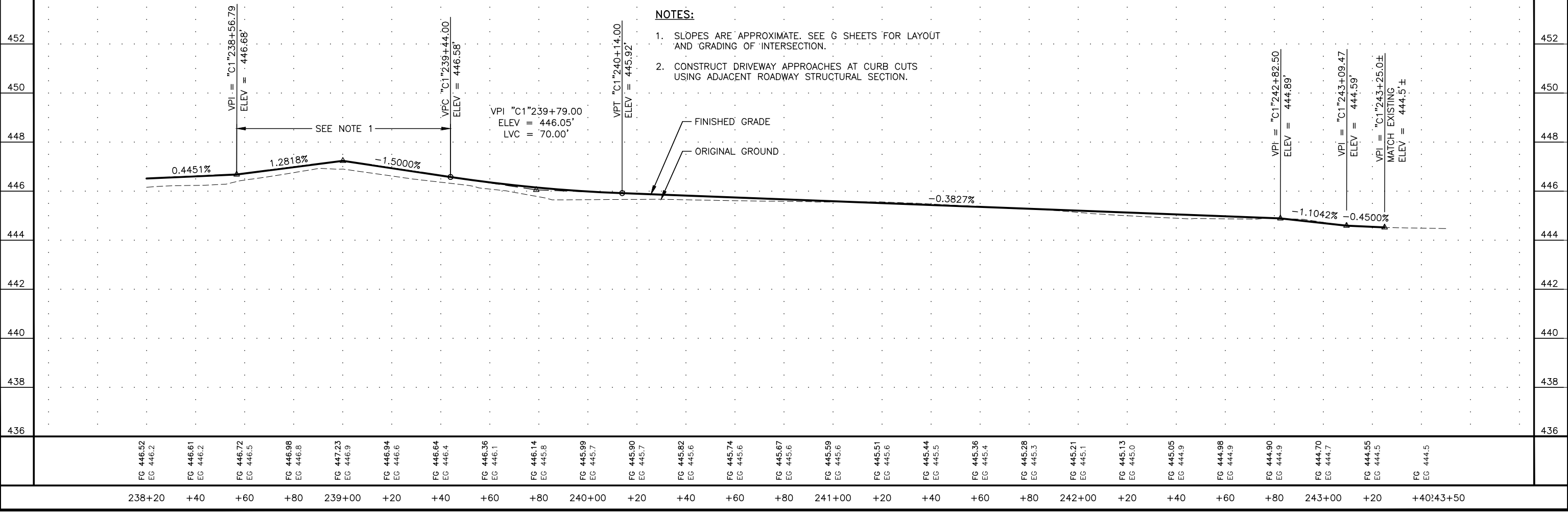
PLANS DEVELOPED BY:
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12/22/2022

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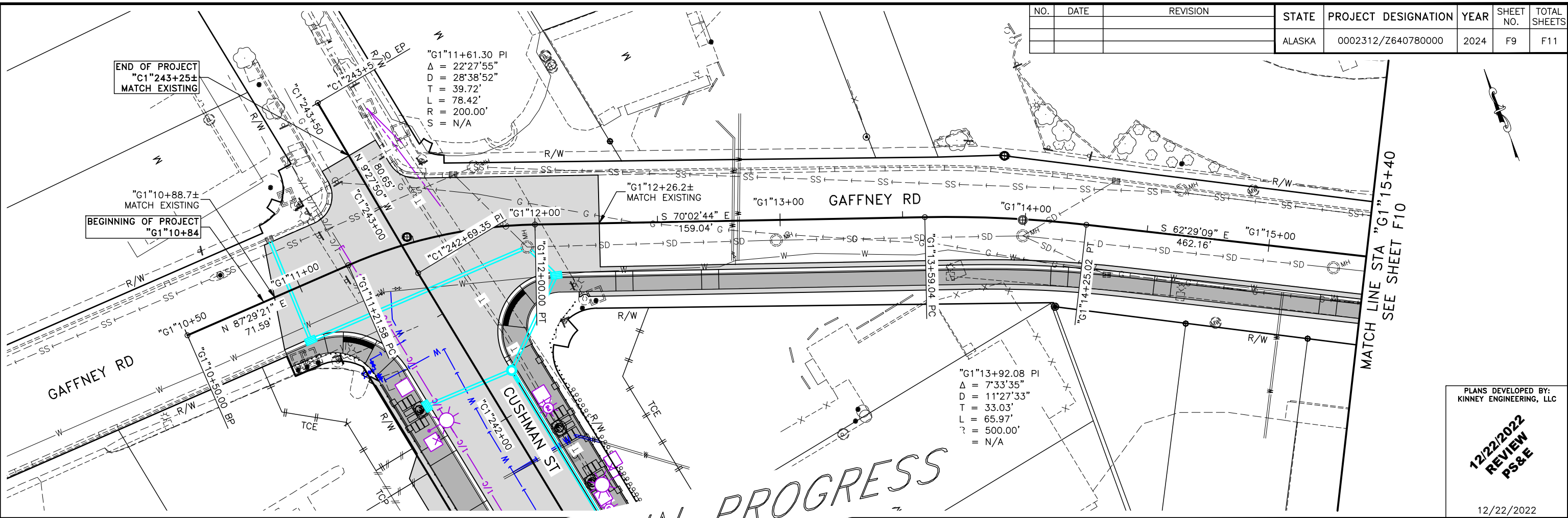
- SLOPES ARE APPROXIMATE. SEE G SHEETS FOR LAYOUT AND GRADING OF INTERSECTION.
- CONSTRUCT DRIVEWAY APPROACHES AT CURB CUTS USING ADJACENT ROADWAY STRUCTURAL SECTION.



FG 446.52	FG 446.61	FG 446.72	FG 446.88	FG 447.23	FG 446.94	FG 446.64	FG 446.36	FG 446.14	FG 445.89	FG 445.90	FG 445.82	FG 445.74	FG 445.67	FG 445.59	FG 445.51	FG 445.44	FG 445.36	FG 445.28	FG 445.21	FG 445.13	FG 445.05	FG 444.98	FG 444.90	FG 444.70	FG 444.55	FG 444.5	FG 444.5
EG 446.2	EG 446.2	EG 446.5	EG 446.8	EG 446.9	EG 446.6	EG 446.4	EG 446.1	EG 445.8	EG 445.7	EG 445.7	EG 445.6	EG 445.6	EG 445.6	EG 445.6	EG 445.6	EG 445.5	EG 445.4	EG 445.3	EG 445.1	EG 445.0	EG 444.9	EG 444.9	EG 444.9	EG 444.7	EG 444.5	EG 444.5	EG 444.5
238+20	+40	+60	+80	239+00	+20	+40	+60	+80	240+00	+20	+40	+60	+80	241+00	+20	+40	+60	+80	242+00	+20	+40	+60	+80	243+00	+20	+40:43+50	

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 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	F9	F11

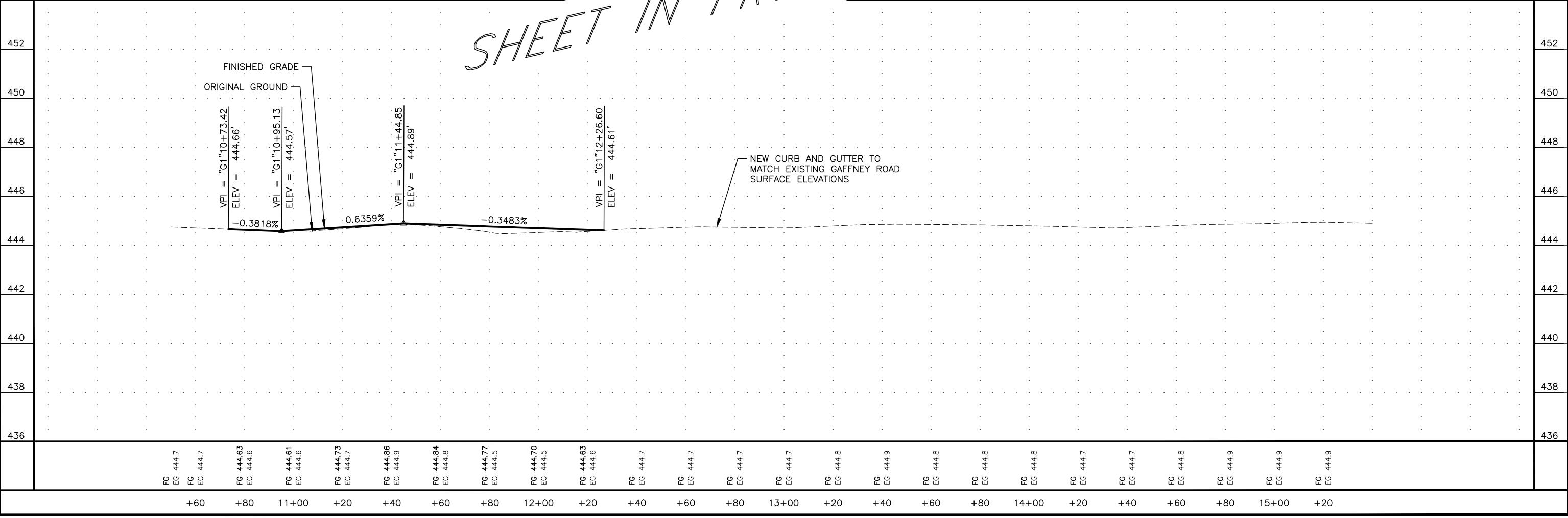


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REVIEW
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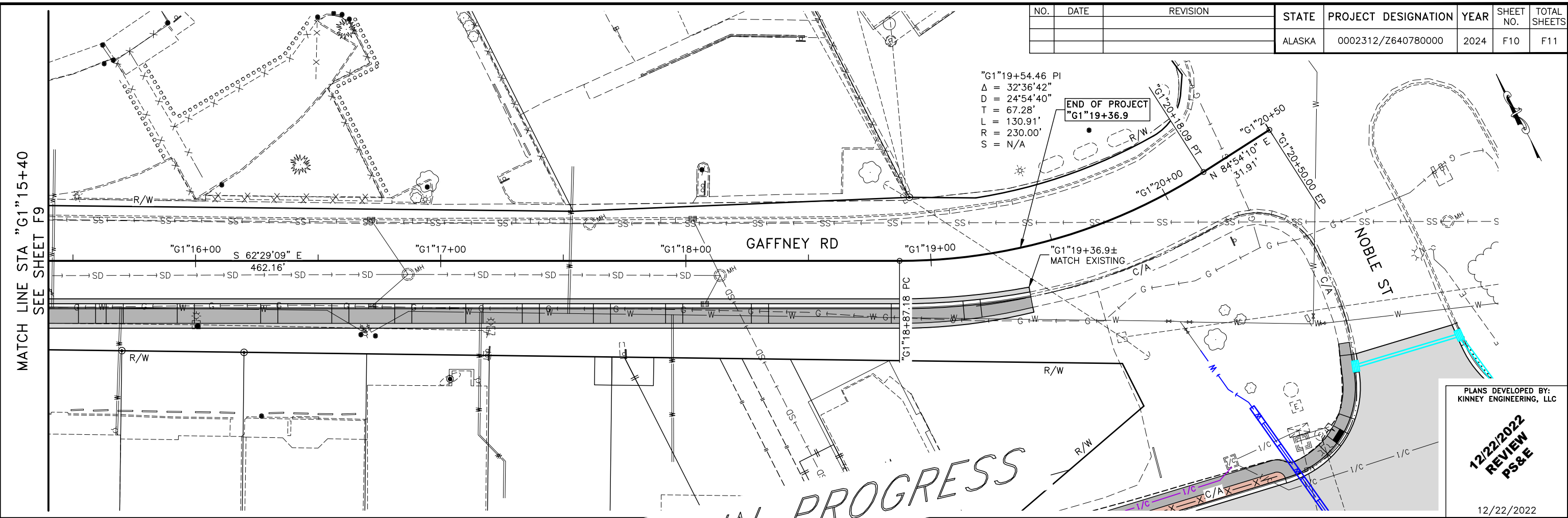
12/22/2022

SHEET IN PROGRESS



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 (Bill Paddock) KE# 00385

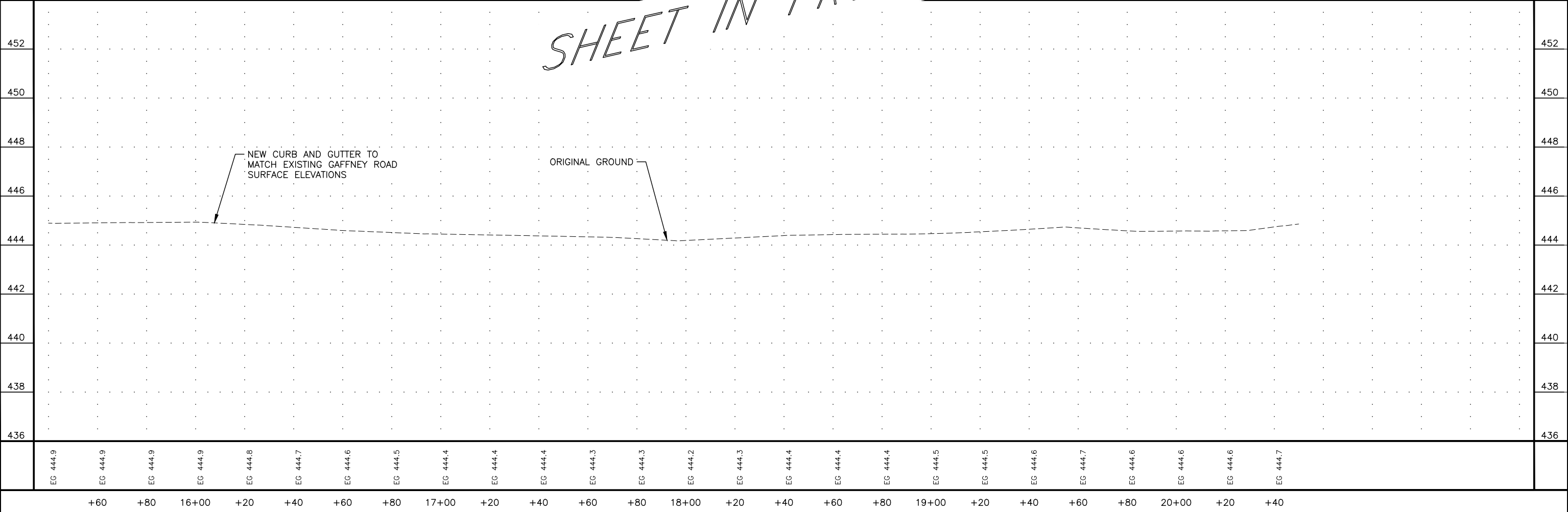
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	F10	F11



SHEET IN PROGRESS

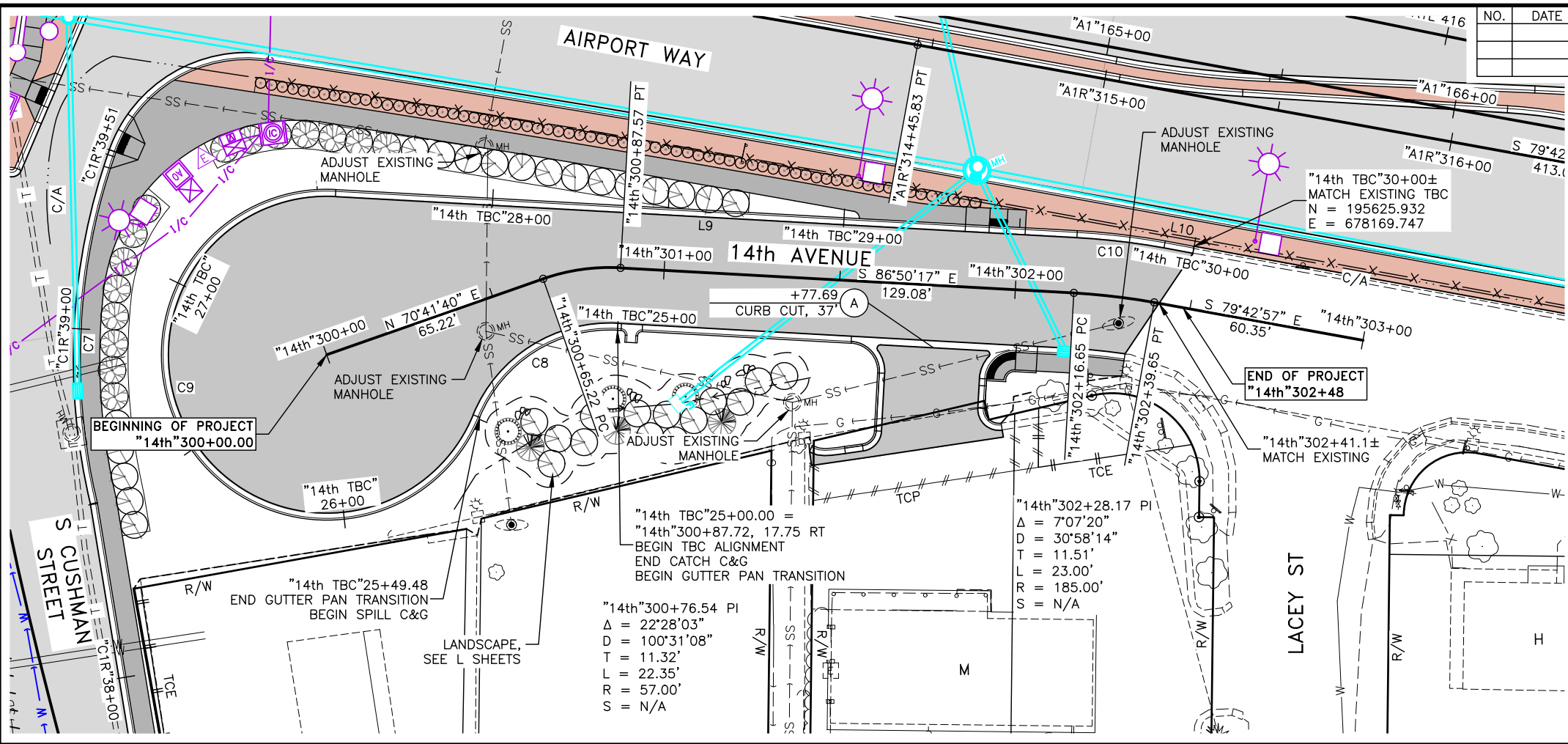
PLANS DEVELOPED BY:
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PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	F11	F11



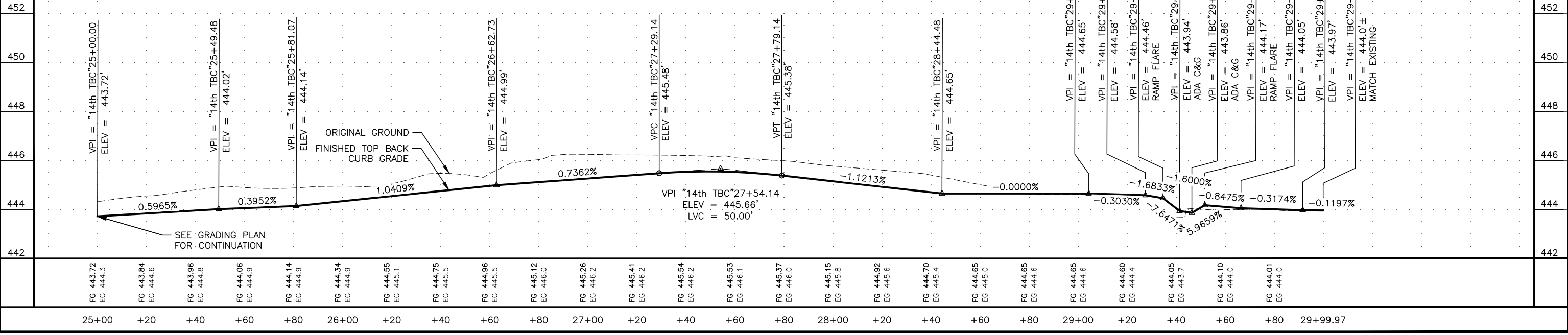
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
REVIEW
PS&E

12/22/2022

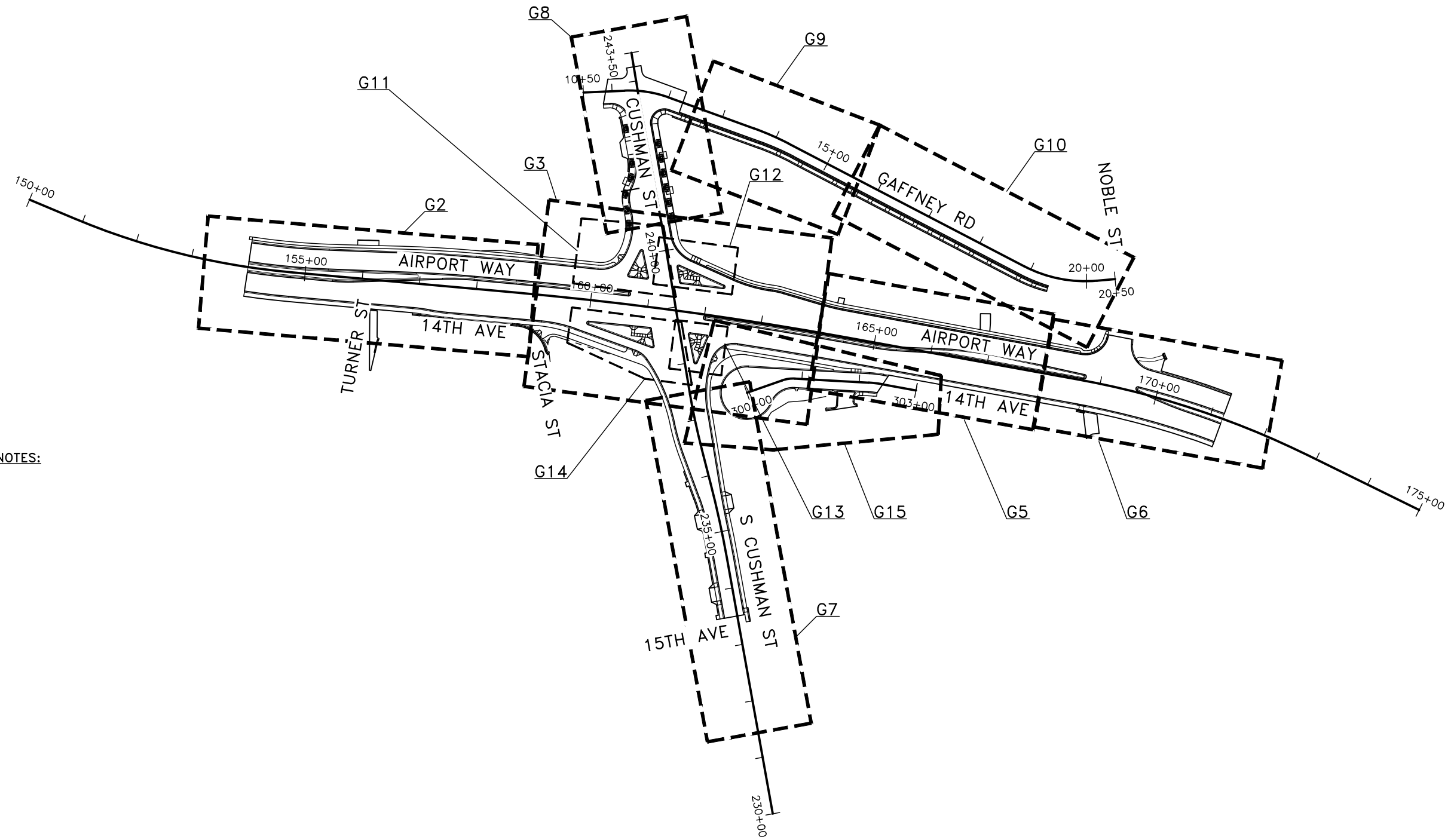
14th TBC CURB AND GUTTER ALIGNMENT AND LAYOUT TABLE

SEGMENT	BEGIN STATION	END STATION	BEARING	RADIUS	LENGTH	TANGENT	DELTA ANGLE
C8	25+00.00	25+49.48		40.00'	49.48'		70°52'40"
C9	25+49.48	27+55.28		47.00'	205.80'		250°52'40"
L9	27+55.28	29+66.41	S 86°50'17" E		211.13'	S86° 50' 16.70"E	
C10	29+66.41	29+91.61		202.75'	25.20'		7°07'20"
L10	29+91.61	29+99.97	S 79°27'35" E		8.35'	S79° 27' 35.08"E	



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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G1	G15



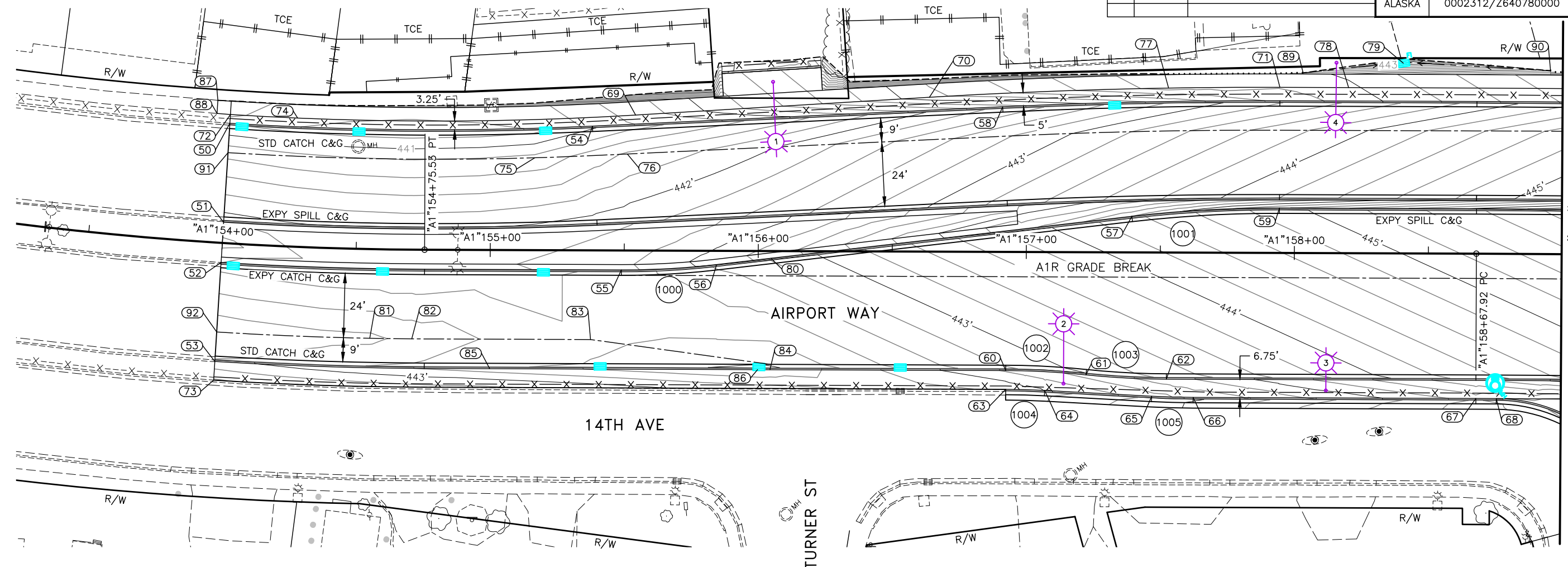
GRTADING NOTES:
1.

GRADING SHEET LAYOUT

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPF\385_airport & cushman reconstruction\DWGS\c_sheets\64078_g2-g15_GRADING-g2_Thu, Dec/22/22 02:48pm
 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G2	G15



MATCH LINE STA "A1" 159+00
 SEE SHEET G3

PT#	STATION	OFFSET	ELEV	DESC
50	"A1" 154+00.00	44.75' LT	441.3'±	TBC PC, SAWCUT, ME
51	"A1" 154+00.00	7.75' LT	442.6'±	TBC PC, SAWCUT, ME
52	"A1" 154+00.00	7.25' RT	442.5'±	TBC PC, SAWCUT, ME
53	"A1" 154+00.00	44.25' RT	443.1'±	TBC PC, SAWCUT, ME
54	"A1" 155+37.97	46.34' LT	441.45'	TBC PT (1)
55	"A1" 155+48.95	7.25' RT	442.74'	TBC PC (3)
56	"A1" 155+84.46	5.13' RT	443.08'	TBC PT (4)
57	"A1" 157+39.34	13.46' LT	444.80'	TBC PC
58	"A1" 156+90.99	54.12' LT	442.72'	TBC OC (2)
59	"A1" 157+94.39	16.75' LT	445.36'	TBC PT
60	"A1" 156+92.48	44.25' RT	443.22'	TBC PC
61	"A1" 157+22.43	45.75' RT	443.46'	TBC PRC
62	"A1" 157+52.41	47.25' RT	443.70'	TBC PT
63	"A1" 156+92.50	51.25' RT	442.8'±	TBC PC, SAWCUT, ME
64	"A1" 157+07.05	51.61' RT	443.01'	TBC PT (1)
65	"A1" 157+46.99	53.61' RT	443.34'	TBC PC

PT#	STATION	OFFSET	ELEV	DESC
66	"A1" 157+62.44	54.00' RT	443.46'	TBC PT (2)
67	"A1" 158+67.92	54.00' RT	444.32'	TBC PI
68	"A1" 158+75.60	54.00' RT	444.26'	TBC PC (1)
69	"A1" 155+54.08	50.52' LT	441.65'	PT (6)
70	"A1" 156+63.64	57.56' LT	443.14'	PC
71	"A1" 157+94.39	61.75' LT	443.82'	VPI
72	"A1" 154+00.00	48.00' LT	441.4'±	PI, SAWCUT, ME
73	"A1" 154+00.00	51.25' RT	443.4'±	TBC PI, SAWCUT, ME
74	"A1" 154+26.09	48.00' LT	441.25'	VPI (5)
75	"A1" 155+16.47	34.43' LT	441.26'	GB EFS
76	"A1" 155+51.01	35.99' LT	441.63'	GB BNC
77	"A1" 157+52.85	61.33' LT	443.89'	VPI
78	"A1" 158+20.02	61.75' LT	443.96'	VPI (5)
79	"A1" 158+40.41	70.90' LT	442.83'	PI, INLET
80	"A1" 156+04.77	2.69' RT	443.26'	TBC BNC
81	"A1" 154+55.68	33.25' RT	442.65'	GB EFS

PT#	STATION	OFFSET	ELEV	DESC
82	"A1" 154+70.95	33.25' RT	442.54'	GB RC
83	"A1" 155+37.53	33.25' RT	442.24'	GB LC
84	"A1" 156+04.53	44.25' RT	442.43'	TBC BNC, END GB
85	"A1" 154+99.94	44.24' RT	442.70'	TBC VPI
86	"A1" 155+99.92	44.25' RT	442.40'	TBC SAG VPI
87	"A1" 153+94.78	53.01' LT	441.6'±	PI, SAWCUT, ME
88	"A1" 153+94.80	48.09' LT	441.5'±	PI, SAWCUT, ME
89	"A1" 158+03.03	67.16' LT	443.79'	PI, BEGIN DITCH
90	"A1" 158+95.03	68.38' LT	444.17'	PI, END DITCH
91	"A1" 154+00.00	33.75' LT	441.3'±	GB VPI, ME
92	"A1" 154+00.01	33.25' RT	442.75'±	GB VPI, ME

PT#	STATION	OFFSET	RADIUS	DESC.
1000	"A1" 155+48.95	290.75 LT	298.00'	
1001	"A1" 157+94.39	445.25 RT	462.00'	
1002	"A1" 156+92.48	344.25 RT	300.00'	
1003	"A1" 157+52.41	252.75 LT	300.00'	
1004	"A1" 156+92.50	342.25 RT	291.00'	
1005	"A1" 157+62.44	255.00 LT	309.00'	

RADIUS POINT TABLE NOTE:
 ALL RADII PROVIDED ARE TBC

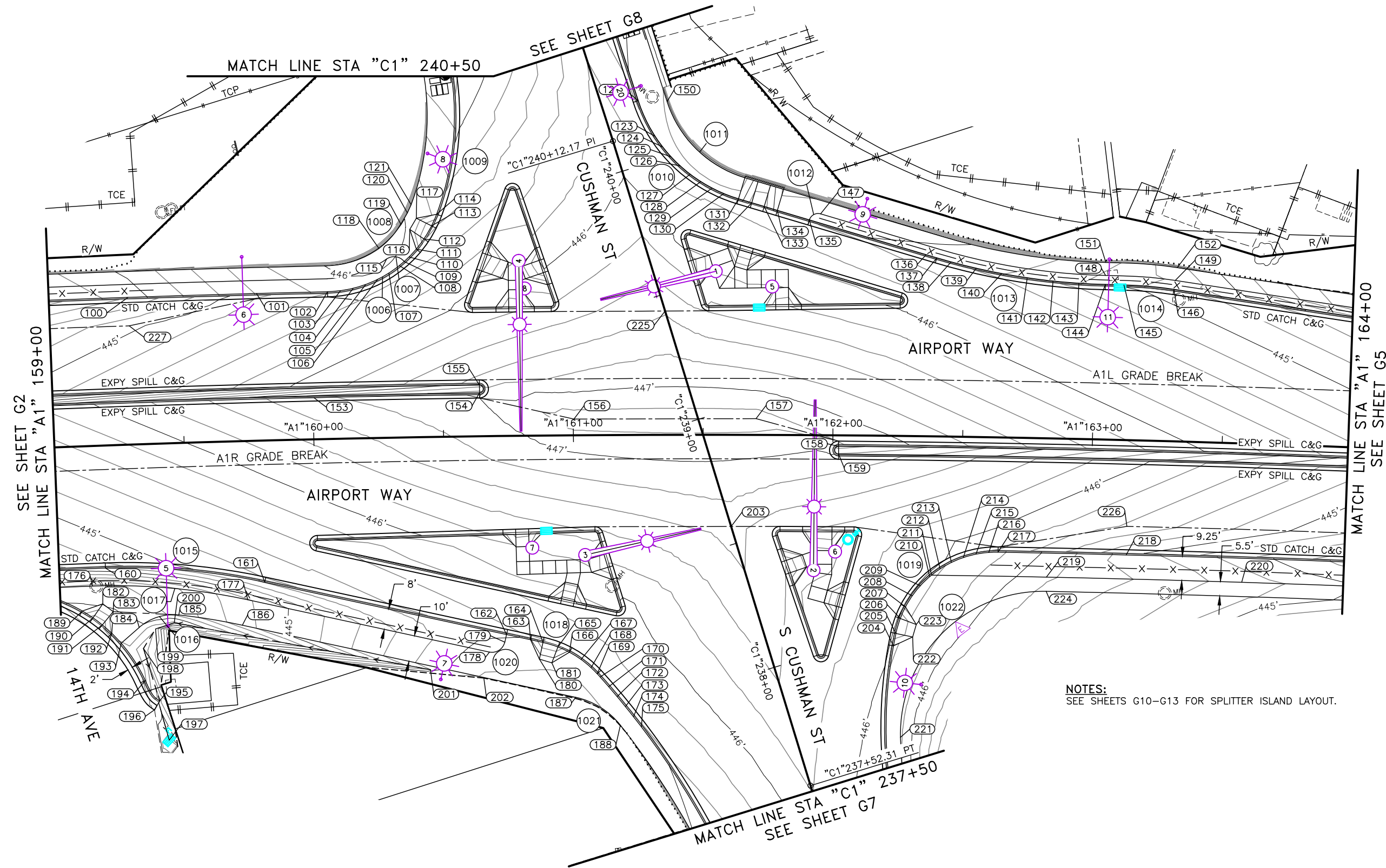
- GRADING CONSTRUCTION NOTES:**
- (1) BEGIN BUFFER WIDTH VARIES
 - (2) END BUFFER WIDTH VARIES
 - (3) END CATCH GUTTER PAN, BEGIN GUTTER PAN TRANSITION
 - (4) END GUTTER PAN TRANSITION, BEGIN SPILL GUTTER PAN
 - (5) BUFFER SLOPE TYP 1.5%
 - (6) BUFFER SLOPE VARIES

GRADING PLAN

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
 REVIEW
 PS&E
 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPF\385_airport & cushman reconstruction\DWGS\C1_Sheets\64078_G2-G15_GRADING-G3_Thu, Dec/22/22 02:48pm (Bill Paddock) KE#- 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G3	G15



NOTES:
SEE SHEETS G10-G13 FOR SPLITTER ISLAND LAYOUT.

GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOT\F385_airport_&_cushman_reconstruction\DWGS\C_Sheets\64078_G2-G15_GRADING-G4_Thu_Dec/22/22_02:48pm KE#-00385 (Bill Paddock)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G4	G15

GRADING POINT TABLE

PT#	STATION	OFFSET	ELEV	DESC
100	"A1" 159+30.29	56.75' LT	444.89'	TBC VPI
101	"A1" 159+79.41	56.75' LT	445.61'	TBC VPI, END GB
102	"A1" 160+06.52	56.75' LT	445.86'	TBC PC, GB
103	"A1" 160+11.47	57.02' LT	445.90'	TBC VPI
104	"A1" 160+16.36	57.84' LT	445.93'	TBC VPI
105	"A1" 160+21.13	59.19' LT	445.95'	TBC VPI
106	"A1" 160+25.73	61.06' LT	445.96'	TBC VPI
107	"A1" 160+30.09	63.43' LT	445.96'	TBC VPI
108	"A1" 160+34.17	66.26' LT	445.95'	TBC VPI
109	"A1" 160+36.01	67.77' LT	445.94'	TBC PT
110	"A1" 160+37.92	69.52' LT	445.93'	TBC VPI
111	"A1" 160+40.72	72.51' LT	445.91'	TBC POC, RAMP FLARE
112	"A1" 160+43.69	76.37' LT	445.47'	TBC POC, ADA C&G
113	"A1" 160+46.67	81.36' LT	445.42'	TBC POC, ADA C&G
114	"A1" 160+48.67	85.81' LT	445.76'	TBC PCC, RAMP FLARE
115	"A1" 160+29.28	68.85' LT	446.03'	PC
116	"A1" 160+38.35	80.13' LT	445.97'	PI, TOP RAMP
117	"A1" 160+40.91	84.41' LT	445.92'	PI, TOP RAMP
118	"A1" 160+26.50	72.98' LT	446.10'	PCC
119	"A1" 160+34.97	82.21' LT	445.90'	PT
120	"A1" 160+37.54	86.48' LT	445.90'	PI
121	"A1" 160+39.03	89.65' LT	445.92'	PC
122	"A1" 161+25.45	128.82' LT	446.05'	TBC PC
123	"A1" 161+31.79	115.07' LT	446.11'	TBC VPI
124	"A1" 161+34.62	110.99' LT	446.13'	TBC VPI
125	"A1" 161+37.79	107.16' LT	446.14'	TBC VPI
126	"A1" 161+41.28	103.64' LT	446.15'	TBC VPI
127	"A1" 161+45.05	100.43' LT	446.16'	TBC VPI
128	"A1" 161+49.09	97.57' LT	446.16'	TBC VPI
129	"A1" 161+53.36	95.07' LT	446.16'	TBC VPI
130	"A1" 161+57.83	92.96' LT	446.16'	TBC VPI
131	"A1" 161+63.42	90.96' LT	446.15'	TBC PT, RAMP FLARE
132	"A1" 161+68.46	89.45' LT	445.73'	TBC PI, ADA C&G
133	"A1" 161+73.20	88.03' LT	445.72'	TBC PI, ADA C&G
134	"A1" 161+78.19	86.55' LT	446.11'	TBC PI, RAMP FLARE
135	"A1" 161+90.39	82.94' LT	446.07'	TBC PC
136	"A1" 162+34.99	69.96' LT	445.93'	TBC VPI
137	"A1" 162+39.07	68.79' LT	445.92'	TBC PC
138	"A1" 162+44.53	67.30' LT	445.90'	TBC VPI
139	"A1" 162+54.16	65.01' LT	445.86'	TBC VPI
140	"A1" 162+63.89	63.13' LT	445.81'	TBC VPI
141	"A1" 162+73.68	61.66' LT	445.75'	TBC VPI
142	"A1" 162+83.54	60.61' LT	445.68'	TBC VPI
143	"A1" 162+93.42	59.97' LT	445.61'	TBC VPI
144	"A1" 163+03.55	59.75' LT	445.52'	TBC PRC

GRADING POINT TABLE

PT#	STATION	OFFSET	ELEV	DESC
145	"A1" 163+10.65	59.75' LT	445.46'	TBC PCC
146	"A1" 163+29.76	58.55' LT	445.32'	TBC PT
147	"A1" 161+94.67	85.32' LT	446.11'	PT
148	"A1" 163+03.55	63.25' LT	445.58'	PCC VPI
149	"A1" 163+30.19	62.02' LT	445.37'	VPI
150	"A1" 161+36.37	128.44' LT	446.22'	PC
151	"A1" 163+03.55	68.25' LT	445.65'	PCC VPI (2)
152	"A1" 163+30.80	66.99' LT	445.23'	VPI (3)
153	"A1" 160+00.44	16.00' LT	446.76'	TBC VPI
154	"A1" 160+64.04	16.75' LT	447.48'	TBC POC, GB**
155	"A1" 160+64.04	19.75' LT	447.11'	TBC POC, GB**
156	"A1" 161+00.25	6.25' LT	447.30'	CROWN GB
157	"A1" 161+70.35	6.25' LT	447.30'	CROWN GB
158	"A1" 162+02.22	4.25' RT	447.68'	TBC POC, GB**
159	"A1" 162+02.22	7.25' RT	447.38'	TBC POC, GB**
160	"A1" 159+17.94	47.25' RT	445.20'	TBC PC
161	"A1" 159+79.62	54.62' RT	445.61'	TBC PT (1)
162	"A1" 160+73.32	76.57' RT	445.98'	TBC PI
163	"A1" 160+82.68	78.68' RT	446.02'	TBC PI, RAMP FLARE
164	"A1" 160+87.51	79.76' RT	445.64'	TBC PC, ADA C&G
165	"A1" 160+93.34	81.53' RT	445.66'	TBC POC, ADA C&G
166	"A1" 160+97.83	83.60' RT	446.07'	TBC POC, RAMP FLARE
167	"A1" 161+02.33	86.41' RT	446.08'	TBC VPI
168	"A1" 161+06.23	89.61' RT	446.09'	TBC VPI
169	"A1" 161+08.59	92.00' RT	446.09'	TBC PCC
170	"A1" 161+09.72	93.24' RT	446.09'	TBC VPI
171	"A1" 161+13.05	97.01' RT	446.09'	TBC VPI
172	"A1" 161+16.33	100.83' RT	446.09'	TBC VPI
173	"A1" 161+19.55	104.70' RT	446.08'	TBC VPI
174	"A1" 161+22.71	108.61' RT	446.07'	TBC VPI
175	"A1" 161+25.80	112.58' RT	446.05'	TBC VPI
176	"A1" 159+12.67	54.00' RT	444.13'	PCC
177	"A1" 159+72.86	61.21' RT	444.77'	PT
178	"A1" 160+66.57	83.25' RT	446.08'	PC
179	"A1" 160+72.64	79.49' RT	446.03'	PT
180	"A1" 160+86.04	86.18' RT	446.14'	PI, TOP RAMP
181	"A1" 160+90.89	87.66' RT	446.16'	PI, TOP RAMP
182	"A1" 159+16.44	60.99' RT	444.02'	PI, TOP RAMP
183	"A1" 159+20.35	64.15' RT	443.98'	PI, TOP RAMP
184	"A1" 159+30.29	70.56' RT	443.96'	PC
185	"A1" 159+45.86	66.26' RT	444.26'	PCC, GB
186	"A1" 159+70.45	70.93' RT	444.71'	PT (2)
187	"A1" 161+00.13	101.02' RT	446.28'	PC
188	"A1" 161+17.54	111.85' RT	446.16'	PT
189	"A1" 159+08.37	63.45' RT	443.95'	TBC POC, RAMP FLARE

GRADING POINT TABLE

PT#	STATION	OFFSET	ELEV	DESC
190	"A1" 159+12.43	66.24' RT	443.51'	TBC POC, ADA C&G
191	"A1" 159+15.95	69.09' RT	443.47'	TBC POC, ADA C&G
192	"A1" 159+19.53	72.47' RT	443.83'	TBC POC, RAMP FLARE
193	"A1" 159+23.04	76.39' RT	443.79'	TBC PI
194	"A1" 159+31.95	91.11' RT	443.65'	TBC PT, TERM TRANS*
195	"A1" 159+37.31	99.17' RT	443.12'	TBC PI, BEGIN DITCH
196	"A1" 159+35.17	102.49' RT	443.2'±	PI, SAWCUT, ME
197	"A1" 159+40.54	114.37' RT	442.74'	PI, INLET
198	"A1" 159+31.64	78.72' RT	443.47'	PI, DITCH
199	"A1" 159+36.63	71.35' RT	443.62'	PI, DITCH
200	"A1" 159+43.97	69.21' RT	443.75'	PI, DITCH
201	"A1" 160+43.43	89.66' RT	445.80'	PI, END DITCH
202	"A1" 160+64.24	93.22' RT	446.35'	PI (3)
203	"A1" 161+60.83	35.34' RT	446.68'	GB VPI
204	"A1" 162+24.25	80.97' RT	446.42'	TBC PI, RAMP FLARE
205	"A1" 162+25.14	76.16' RT	446.04'	TBC PCC, ADA C&G
206	"A1" 162+26.78	70.36' RT	446.05'	TBC POC, ADA C&G
207	"A1" 162+28.76	65.87' RT	446.46'	TBC POC, RAMP FLARE
208	"A1" 162+31.34	61.57' RT	446.46'	TBC VPI
209	"A1" 162+34.44	57.63' RT	446.45'	TBC VPI
210	"A1" 162+38.01	54.10' RT	446.43'	TBC VPI
211	"A1" 162+38.72	53.50' RT	446.43'	TBC PI
212	"A1" 162+42.01	51.05' RT	446.41'	TBC VPI
213	"A1" 162+46.35	48.52' RT	446.39'	TBC VPI
214	"A1" 162+50.98	46.55' RT	446.35'	TBC VPI
215	"A1" 162+55.82	45.17' RT	446.32'	TBC VPI
216	"A1" 162+60.80	44.42' RT	446.27'	TBC VPI
217	"A1" 162+64.39	44.25' RT	446.24'	TBC PT, GB
218	"A1" 163+14.11	44.25' RT	445.52'	TBC VPI
219	"A1" 162+83.36	53.50' RT	445.83'	VPI
220	"A1" 163+59.25	53.50' RT	445.31'	VPI
221	"A1" 162+27.42	116.16' RT	446.23'	PC
222	"A1" 162+31.68	77.44' RT	446.34'	PI, TOP RAMP
223	"A1" 162+33.04	72.61' RT	446.35'	PI, TOP RAMP
224	"A1" 162+83.38	59.00' RT	445.75'	PT
225	"A1" 161+35.44	47.72' LT	446.58'	GB VPI
226	"A1" 163+14.11	33.25' RT	445.57'	GB VPI
227	"A1" 159+30.37	45.75' LT	444.94'	GB VPI

* SEE DETAIL ON SHEET E6
 ** SEE RAMPED MEDIAN NOSE DETAIL ON SHEET E6

RADIUS POINT TABLE

PT#	STATION	OFFSET	RADIUS	DESC.
1006	"A1" 160+07.51	101.25 LT	46.00'	TBC
1007	"C1" 239+89.48	95.18 LT	5.00'	
1008	"C1" 240+29.95	108.51 LT	31.26'	
1009	"A1" 159+50.06	126.02 LT	108.00'	TBC
1010	"A1" 161+79.51	146.60 LT	58.00'	TBC
1011	"C1" 240+20.27	69.50 RT	45.00'	
1012	"C1" 239+59.00	66.34 RT	3.50'	
1013	"C1" 241+35.68	245.17 RT	248.00'	TBC
1014	"A1" 163+10.65	92.25 RT	152.00'	TBC
1015	"A1" 159+17.94	295.25 RT	248.00'	TBC
1016	"A1" 159+43.08	86.07 RT	20.00'	
1017	"A1" 159+12.67	295.00 RT	241.00'	
1018	"A1" 160+78.62	118.28 RT	39.50'	TBC
1019	"A1" 162+64.39	83.75 RT	39.50'	TBC
1020	"C1" 238+42.13	100.78 LT	5.00'	
1021	"C1" 237+85.18	91.19 LT	30.00'	
1022	"C1" 237+44.46	91.51 RT	55.00'	

GRADING CONSTRUCTION NOTES:

- (1) END BUFFER WIDTH VARIES
- (2) BEGIN SIDEWALK CROSS SLOPE TRANSITION
- (3) END SIDEWALK CROSS SLOPE TRANSITION
- (4) BUFFER SLOPE TYP 1.5%
- (5) BUFFER SLOPE VARIES

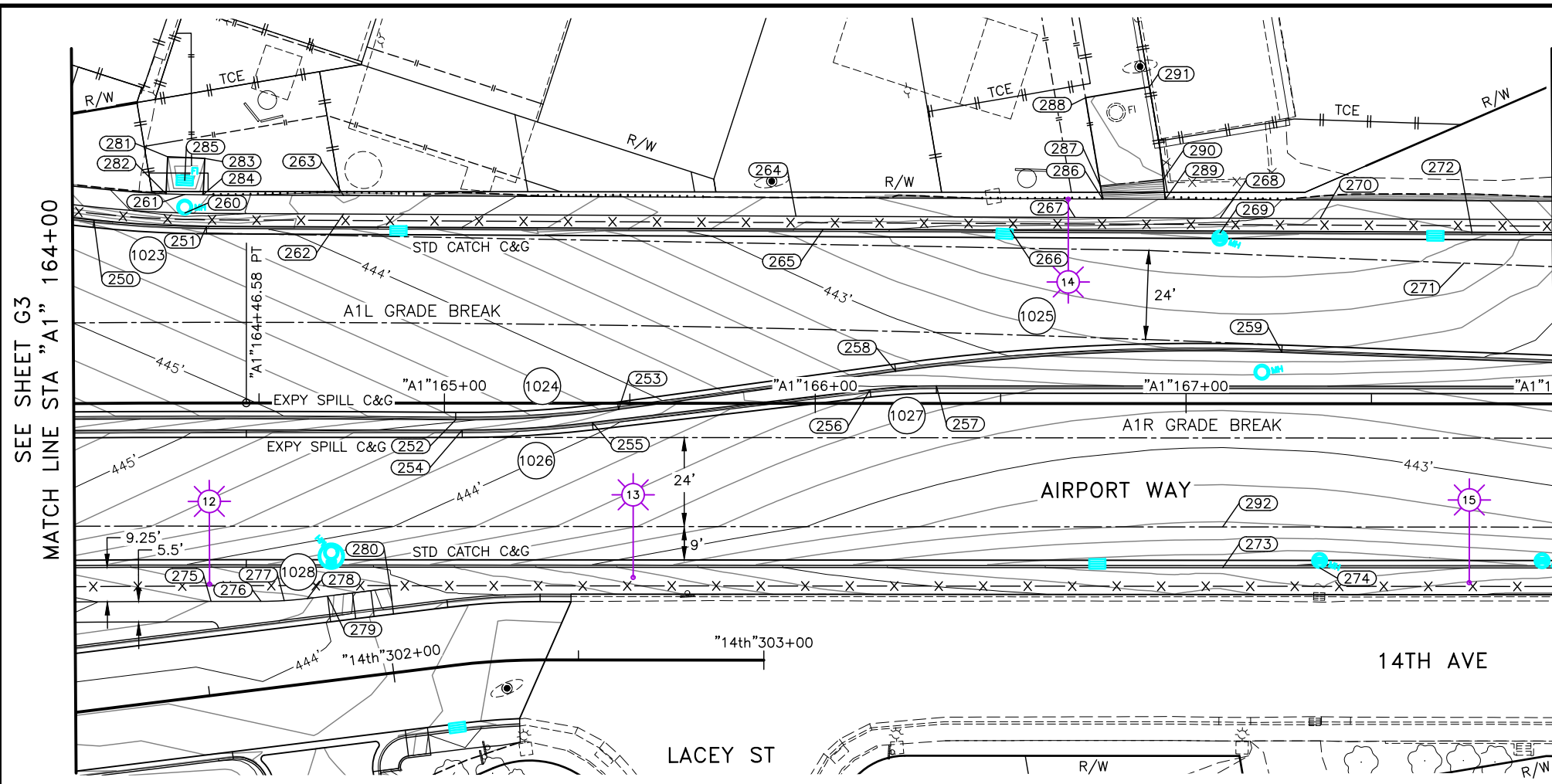
GRADING PLAN

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC

12/22/2022
 REVIEW
 PS&E

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G5	G15



SEE SHEET G3
MATCH LINE STA "A1" 164+00

MATCH LINE STA "A1" 168+00
SEE SHEET G6

GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
250	"A1" 164+05.76	49.44' LT	444.83'	TBC PC
251	"A1" 164+35.90	47.64' LT	444.61'	TBC PT, BEGIN GB
252	"A1" 165+03.02	4.50' RT	445.05'	TBC PRC
253	"A1" 165+46.95	1.67' RT	444.60'	TBC PT
254	"A1" 165+04.80	7.25' RT	444.79'	TBC PC
255	"A1" 165+39.85	5.18' RT	444.51'	TBC PT
256	"A1" 166+14.77	3.69' LT	444.06'	TBC PC
257	"A1" 166+32.65	4.75' LT	443.97'	TBC PT
258	"A1" 166+21.68	8.64' LT	443.72'	TBC PC
259	"A1" 167+25.80	13.83' LT	443.25'	TBC PT
260	"A1" 164+30.09	51.24' LT	443.76'	VPI
261	"A1" 164+30.09	56.24' LT	443.69'	VPI (3) (4)
262	"A1" 164+72.76	50.99' LT	444.37'	VPI (5)
263	"A1" 164+72.76	55.99' LT	444.45'	VPI (4)
264	"A1" 165+94.75	50.50' LT	443.25'	VPI (6)

GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
265	"A1" 166+02.14	46.97' LT	443.13'	TBC VPI
266	"A1" 166+52.55	46.77' LT	442.77'	TBC VPI
267	"A1" 166+70.07	50.19' LT	443.52'	VPI
268	"A1" 167+09.11	50.04' LT	443.18'	VPI
269	"A1" 167+09.09	46.04' LT	442.60'	TBC SAG VPI
270	"A1" 167+36.10	49.93' LT	442.76'	VPI (5)
271	"A1" 167+74.96	37.99' LT	442.45'	ENC
272	"A1" 167+77.06	46.26' LT	442.80'	VPI
273	"A1" 167+09.89	44.25' RT	442.52'	VPI
274	"A1" 167+36.09	44.25' RT	442.44'	SAG VPI
275	"A1" 164+37.03	53.50' RT	444.80'	VPI (1)
276	"A1" 164+50.58	53.50' RT	444.72'	PC
277	"A1" 164+56.82	53.31' RT	444.68'	VPI
278	"A1" 164+63.04	52.73' RT	444.63'	PT
279	"A1" 164+68.49	52.05' RT	444.53'	PI

GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
280	"A1" 164+85.43	49.93' RT	444.25'	PI
281	"A1" 164+25.54	66.41' LT	443.4±	PI, SAWCUT, ME
282	"A1" 164+25.09	56.42' LT	443.76'	PI, ASPHALT
283	"A1" 164+35.43	65.97' LT	443.4±	PI, SAWCUT, ME
284	"A1" 164+35.00	56.15' LT	443.77'	PI, ASPHALT
285	"A1" 164+30.09	60.05' LT	442.86'	INLET
286	"A1" 166+77.47	55.16' LT	443.53'	PI, ASPHALT
287	"A1" 166+76.87	58.70' LT	445.14'	PI, GRADE BREAK
288	"A1" 166+72.82	82.47' LT	445.4±	PI, SAWCUT, ME
289	"A1" 166+94.37	55.10' LT	443.38'	PI, ASPHALT
290	"A1" 166+93.80	60.48' LT	445.38'	PI, GRADE BREAK
291	"A1" 166+90.05	85.42' LT	445.5±	PI, SAWCUT, ME
292	"A1" 167+09.89	33.25' RT	442.57'	GB VPI

RADIUS POINT TABLE				
PT#	STATION	OFFSET	RADIUS	DESC.
1023	"A1" 164+37.50	345.64 LT	298.00'	TBC
1024	"A1" 165+05.66	297.49 LT	302.00'	TBC
1025	"A1" 167+03.43	583.75 RT	598.00'	TBC
1026	"A1" 165+04.80	290.75 LT	298.00'	TBC
1027	"A1" 166+32.65	147.25 RT	152.00'	TBC
1028	"A1" 164+50.64	46.50 LT	100.00'	

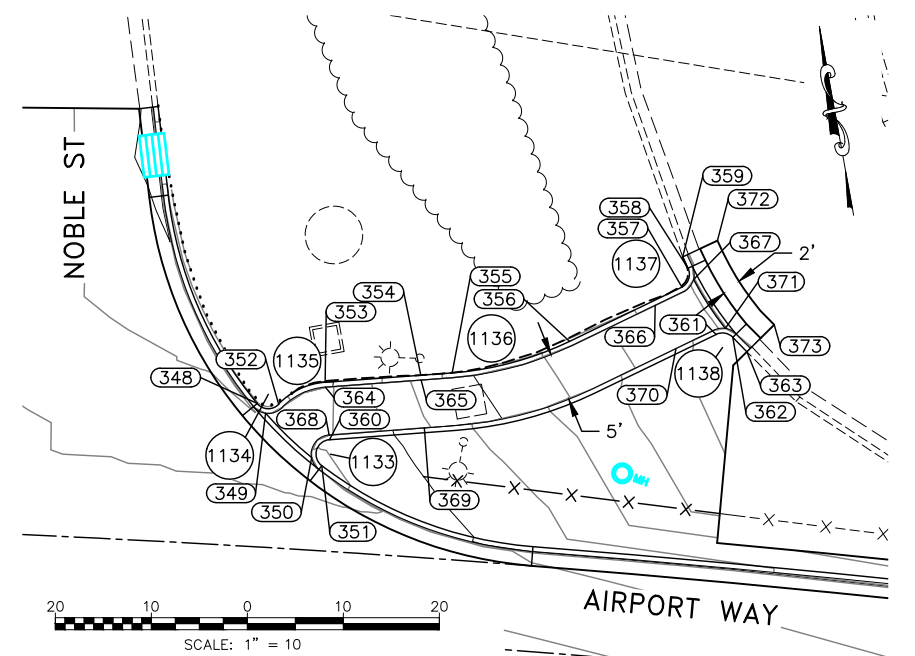
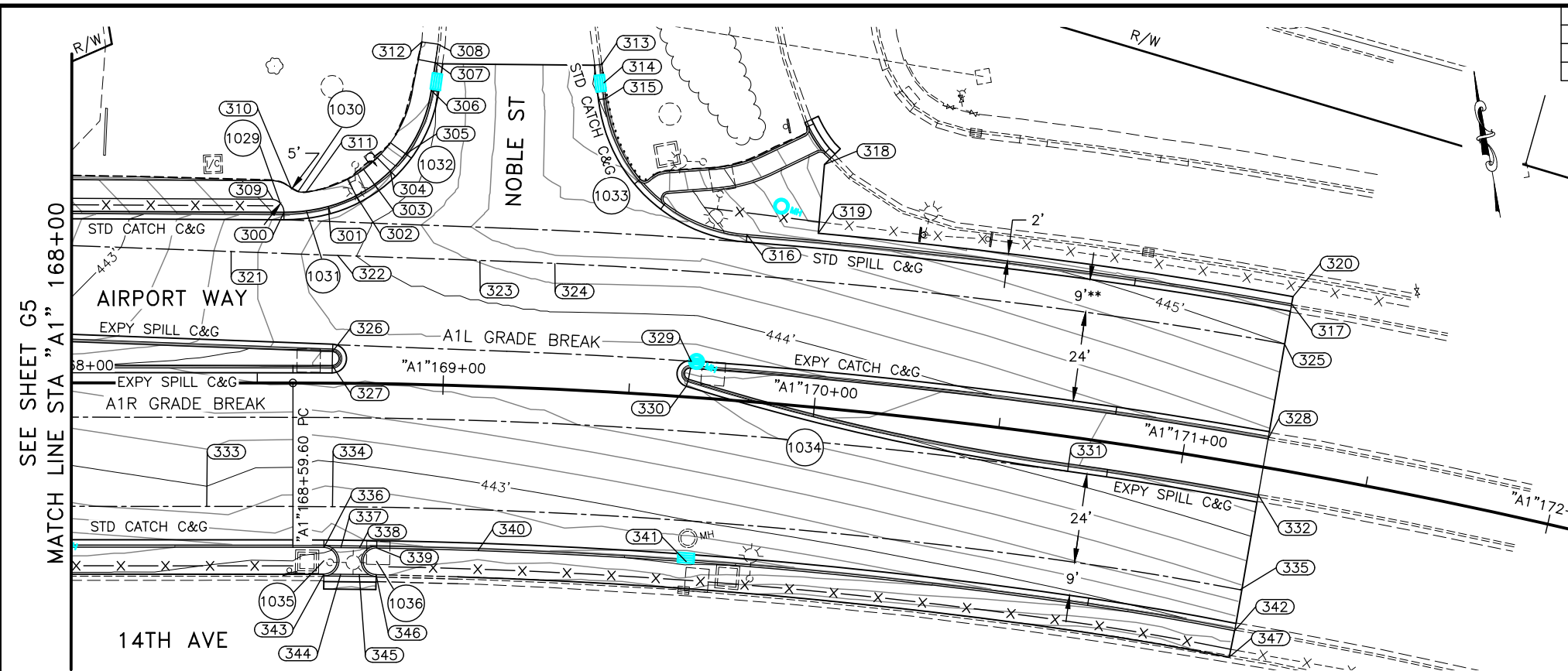
- GRADING CONSTRUCTION NOTES:**
- (1) BEGIN BUFFER WIDTH VARIES
 - (2) END BUFFER WIDTH VARIES
 - (3) BEGIN SIDEWALK CROSS SLOPE TRANSITION
 - (4) END SIDEWALK CROSS SLOPE TRANSITION
 - (5) BUFFER SLOPE TYP 1.5%
 - (6) BUFFER SLOPE VARIES

GRADING PLAN

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOT\F\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_G2-G15_GRADING-G6_Thu, Dec/22/22 02:49pm
 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G6	G15



GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
300	"A1" 168+57.13	45.94' LT	444.05'	TBC PC, GB
301	"A1" 168+68.81	47.54' LT	444.13'	TBC PCC
302	"A1" 168+76.00	50.49' LT	444.18'	TBC POC, RAMP FLARE
303	"A1" 168+80.74	53.59' LT	443.82'	TBC POC, ADA C&G
304	"A1" 168+84.80	57.26' LT	443.86'	TBC POC, ADA C&G
305	"A1" 168+88.46	61.78' LT	444.28'	TBC POC, RAMP FLARE
306	"A1" 168+94.93	79.20' LT	444.42'	TBC PT
307	"A1" 168+95.78	86.67' LT	444.5'±	TBC PI, SAWCUT, ME
308	"A1" 168+96.35	91.69' LT	444.5'±	PI, SAWCUT, ME
309	"A1" 168+54.15	49.45' LT	444.06'	PC
310	"A1" 168+59.10	52.47' LT	444.16'	PRC
311	"A1" 168+62.91	51.36' LT	444.17'	PCC
312	"A1" 168+92.23	92.21' LT	444.6'±	PI, SAWCUT, ME
313	"A1" 169+38.14	87.95' LT	444.4'±	TBC PI, SAWCUT, ME
314	"A1" 169+38.92	83.04' LT	444.37'	TBC SAG VPI
315	"A1" 169+39.61	78.79' LT	444.41'	TBC PC
316	"A1" 169+78.34	44.75' LT	445.09'	TBC PRC, GB (2)
317	"A1" 171+21.94	44.58' LT	445.8'±	TBC POC, SAWCUT, ME
318	"A1" 169+96.86	65.34' LT	445.9'±	PI, SAWCUT, ME
319	"A1" 169+96.86	46.75' LT	445.4'±	PI, SAWCUT, ME
320	"A1" 171+21.96	46.58' LT	444.8'±	PI, SAWCUT, ME
321	"A1" 168+42.92	35.42' LT	443.48'	GB LC
322	"A1" 168+71.34	34.39' LT	443.97'	GB VPI
323	"A1" 169+08.78	33.70' LT	444.21'	GB RC
324	"A1" 169+28.53	33.75' LT	444.34'	GB BFS
325	"A1" 171+21.89	33.65' LT	445.0'±	GB VPI, ME

GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
326	"A1" 168+70.17	8.46' LT	444.23'	TBC PT*
327	"A1" 168+70.11	4.75' LT	444.22'	TBC PRC*
328	"A1" 171+21.91	7.67' LT	444.8'±	TBC POC, SAWCUT, ME
329	"A1" 169+66.08	9.75' LT	443.68'	TBC PCC* (2)
330	"A1" 169+65.28	2.84' LT	443.79'	TBC PCC* (1)
331	"A1" 170+69.95	7.25' RT	444.59'	TBC PRC
332	"A1" 171+21.90	7.60' RT	444.8'±	TBC POC, SAWCUT, ME
333	"A1" 168+36.40	33.25' RT	442.89'	GB ENC
334	"A1" 168+70.48	33.25' RT	442.64'	GB BFS
335	"A1" 171+21.46	33.59' RT	443.6'±	GB VPI, ME
336	"A1" 168+68.19	44.25' RT	442.96'	TBC PCC
337	"A1" 168+72.91	44.25' RT	442.57'	TBC POC, ADA C&G
338	"A1" 168+78.06	44.25' RT	442.58'	TBC POC, ADA C&G
339	"A1" 168+82.82	44.25' RT	443.01'	TBC PCC
340	"A1" 169+10.86	44.25' RT	443.12'	TBC VPI
341	"A1" 169+68.67	44.25' RT	442.95'	TBC SAG VPI
342	"A1" 171+21.87	44.74' RT	443.6'±	TBC POC, SAWCUT, ME
343	"A1" 168+68.21	51.43' RT	443.2'±	TBC PC, SAWCUT, ME
344	"A1" 168+72.90	51.43' RT	442.72'	TBC PI, ADA C&G
345	"A1" 168+78.08	51.43' RT	442.73'	TBC PI, ADA C&G
346	"A1" 168+82.78	51.41' RT	443.2'±	TBC PT, AWCUT, ME
347	"A1" 171+21.69	51.98' RT	443.7'±	TBC PI, SAWCUT, ME
348	"A1" 169+49.62	57.65' LT	444.65'	TBC PCC
349	"A1" 169+50.52	56.68' LT	444.54'	TBC POC, ADA C&G
350	"A1" 169+55.41	52.37' LT	444.61'	TBC POC, ADA C&G
351	"A1" 169+56.49	51.60' LT	444.75'	TBC PCC (1)

GRADING POINT TABLE				
PT#	STATION	OFFSET	ELEV	DESC
352	"A1" 169+51.77	57.70' LT	444.75'	TBC PRC
353	"A1" 169+56.29	60.27' LT	444.97'	TBC PT
354	"A1" 169+65.80	61.69' LT	445.36'	TBC VPI
355	"A1" 169+68.91	62.17' LT	445.42'	TBC PC
356	"A1" 169+80.38	66.37' LT	445.66'	TBC PT
357	"A1" 169+91.08	72.97' LT	445.90'	TBC PC
358	"A1" 169+91.52	74.98' LT	445.95'	TBC PT
359	"A1" 169+90.89	76.10' LT	446.0'±	TBC PI, SAWCUT, ME
360	"A1" 169+57.09	54.33' LT	444.84'	TBC PC
361	"A1" 169+94.89	68.37' LT	445.86'	TBC PT
362	"A1" 169+96.56	68.22' LT	445.91'	TBC PC
363	"A1" 169+98.10	66.87' LT	446.0'±	TBC PI, SAWCUT, ME
364	"A1" 169+56.36	59.77' LT	444.36'	VPI, TOP SWLK
365	"A1" 169+65.87	61.18' LT	444.86'	VPI, TOP SWLK
366	"A1" 169+88.58	70.83' LT	445.54'	VPI, TOP SWLK
367	"A1" 169+92.17	73.87' LT	445.92'	TBC PI, ADA C&G
368	"A1" 169+57.02	54.84' LT	444.38'	VPI, TOP SWLK
369	"A1" 169+66.53	56.25' LT	444.78'	VPI, TOP SWLK
370	"A1" 169+91.01	66.54' LT	445.53'	VPI, TOP SWLK
371	"A1" 169+95.75	69.08' LT	445.89'	TBC PI, ADA C&G
372	"A1" 169+94.18	78.12' LT	445.5'±	PI, SAWCUT, ME
373	"A1" 170+00.57	69.93' LT	445.5'±	PI, SAWCUT, ME

RADIUS POINT TABLE				
PT#	STATION	OFFSET	RADIUS	DESC.
1029	"A1" 168+53.63	45.96 LT	3.00'	
1030	"A1" 168+62.21	56.30 LT	5.88'	
1031	"A1" 168+57.31	90.94 LT	45.00'	TBC
1032	"A1" 168+59.15	84.19 LT	38.00'	TBC
1033	"A1" 169+78.34	86.25 LT	41.50'	TBC
1034	"A1" 170+69.95	640.75 LT	648.00'	TBC
1035	"A1" 168+68.19	47.84 RT	3.59'	TBC
1036	"A1" 168+82.82	47.83 RT	3.58'	TBC
1133	"A1" 169+57.29	52.85 LT	1.50'	TBC
1134	"A1" 169+50.68	58.67 LT	1.50'	TBC
1135	"A1" 169+57.29	52.85 LT	7.50'	TBC
1136	"A1" 169+64.22	95.81 LT	34.00'	TBC
1137	"A1" 169+90.29	74.22 LT	1.50'	TBC
1138	"A1" 169+95.63	67.08 LT	1.50'	TBC

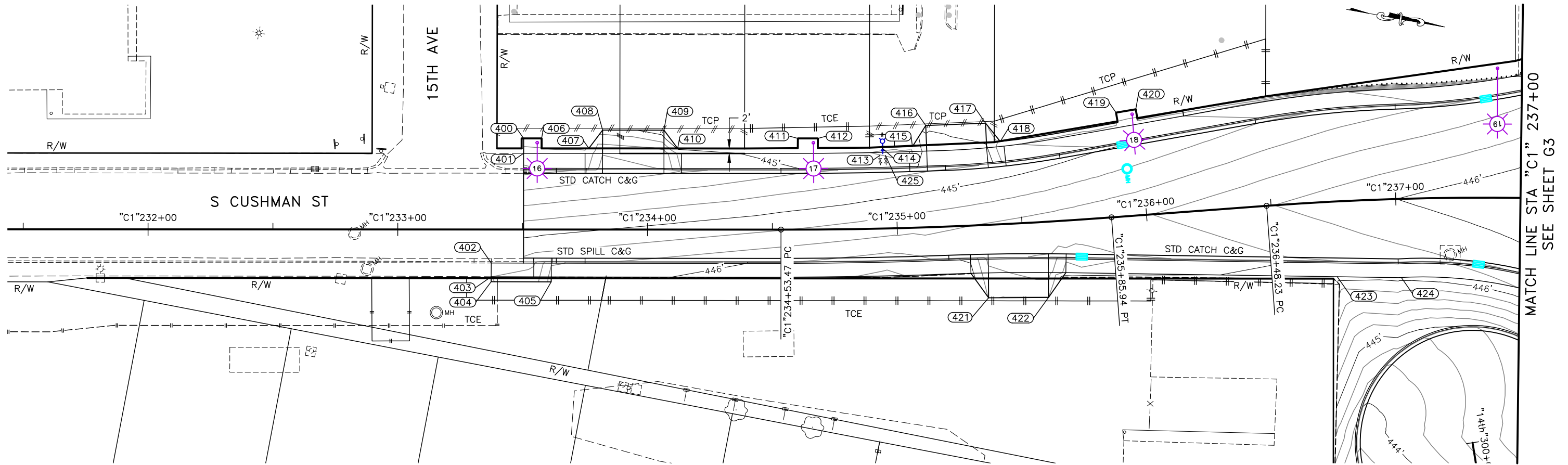
GRADING CONSTRUCTION NOTES:
 (1) END CATCH GUTTER PAN, BEGIN GUTTER PAN TRANSITION
 (2) END GUTTER PAN TRANSITION, BEGIN SPILL GUTTER PAN

* SEE RAMPED MEDIAN NOSE DETAIL ON SHEET E8
 ** BEGINNING OF 9' WIDTH CORRESPONDS WITH POINT 300

GRADING PLAN

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
 12/22/2022
 REVIEW
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G7	G15



GRADING POINT TABLE

PT#	STATION	OFFSET	ELEV	DESC
400	"C1" 233+50.39	36.51' LT	445.0'±	PI, SAWCUT, ME
401	"C1" 233+50.39	30.52' LT	444.7'±	PI, SAWCUT, ME
402	"C1" 233+37.43	13.39' RT	445.3'±	TBC PI, SAWCUT, ME
403	"C1" 233+37.42	18.89' RT	445.4'±	PI, SAWCUT, ME
404	"C1" 233+37.41	20.89' RT	445.4'±	PI, ASPHALT
405	"C1" 233+61.46	20.96' RT	445.9'±	PI, ASPHALT
406	"C1" 233+57.59	36.50' LT	445.0'±	PI, SAWCUT, ME
407	"C1" 233+76.50	32.50' LT	444.8'±	PI, SAWCUT, ME
408	"C1" 233+82.00	39.83' LT	444.9'±	PI, SAWCUT, ME
409	"C1" 234+06.58	39.83' LT	445.2'±	PI, SAWCUT, ME
410	"C1" 234+12.08	32.50' LT	445.0'±	PI, SAWCUT, ME
411	"C1" 234+60.34	36.54' LT	445.2'±	PI, SAWCUT, ME
412	"C1" 234+68.51	36.48' LT	445.2'±	PI, SAWCUT, ME
413	"C1" 234+93.65	29.28' LT	445.20'	VALVE FG

GRADING POINT TABLE

PT#	STATION	OFFSET	ELEV	DESC
414	"C1" 234+94.91	32.02' LT	445.18'	VALVE FG
415	"C1" 235+07.10	32.50' LT	445.1'±	PI, SAWCUT, ME
416	"C1" 235+12.78	40.76' LT	445.0'±	PI, SAWCUT, ME
417	"C1" 235+37.36	40.74' LT	445.2'±	PI, SAWCUT, ME
418	"C1" 235+42.98	33.13' LT	445.3'±	PI, SAWCUT, ME
419	"C1" 235+90.89	41.73' LT	445.2'±	PI, SAWCUT, ME
420	"C1" 235+98.86	42.46' LT	445.2'±	PI, SAWCUT, ME
421	"C1" 235+35.29	29.19' RT	445.8'±	PI, ASPHALT
422	"C1" 235+58.87	30.30' RT	445.8'±	PI ASPHALT
423	"C1" 236+75.00	30.12' RT	446.14'	VPI (1)
424	"C1" 237+01.35	31.51' RT	446.06'	VPI (2)
425	"C1" 234+95.99	29.22' LT	445.20'	VALVE FG

GRADING CONSTRUCTION NOTES:

- (1) BEGIN SIDEWALK CROSS SLOPE TRANSITION
- (2) END SIDEWALK CROSS SLOPE TRANSITION

GRADING PLAN

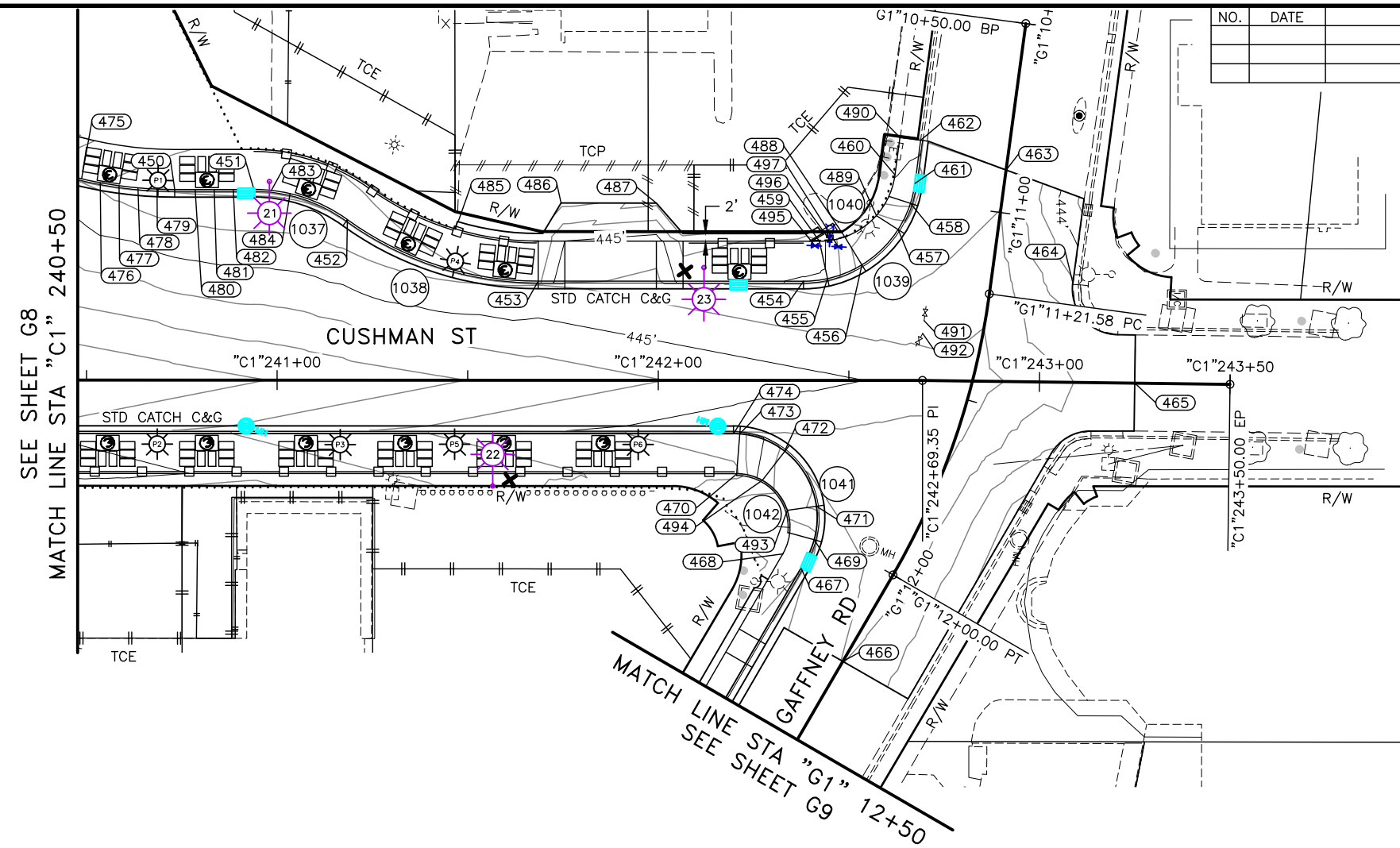
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

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12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G8	G15



PT#	STATION	OFFSET	ELEV	DESC
450	"C1" 240+73.12	50.00' LT	445.06'	TBC PT
451	"C1" 240+93.91	50.00' LT	445.02'	TBC PC
452	"C1" 241+18.41	42.12' LT	445.08'	TBC PCC
453	"C1" 241+68.49	26.00' LT	445.25'	TBC PT
454	"C1" 242+38.09	26.00' LT	444.98'	TBC PC
455	"C1" 242+44.41	26.68' LT	444.96'	TBC POC, RAMP FLARE
456	"C1" 242+53.41	30.29' LT	444.52'	TBC POC, ADA C&G
457	"C1" 242+62.93	39.58' LT	444.47'	TBC POC, ADA C&G
458	"C1" 242+66.17	46.44' LT	444.84'	TBC POC, RAMP FLARE
459	"C1" 242+42.26	36.50' LT	445.11'	TBC PC
460	"C1" 242+62.09	53.93' LT	445.01'	TBC PT
461	"C1" 242+67.35	51.71' LT	444.91'	TBC PT, SAG VPI
462	"C1" 242+68.82	63.02' LT	445.1'±	TBC PI, SAWCUT, ME
463	"C1" 242+90.55	55.48' LT	444.6'±	PI, SAWCUT, ME
464	"C1" 243+08.44	26.09' LT	444.22'	TBC PC
465	"C1" 243+25.05	0.00' RT	444.8'±	PI, SAWCUT, ME

PT#	STATION	OFFSET	ELEV	DESC
466	"C1" 242+48.47	73.71' RT	444.6'±	PI, SAWCUT, ME
467	"C1" 242+37.48	49.30' RT	444.81'	TBC PT
468	"C1" 242+32.81	45.53' RT	444.90'	PT
469	"C1" 242+40.96	41.80' RT	444.87'	TBC POC, RAMP FLARE
470	"C1" 242+20.70	24.50' RT	445.42'	PC, BACK SWLK
471	"C1" 242+41.54	33.03' RT	444.56'	TBC POC, RAMP FLARE
472	"C1" 242+33.13	18.60' RT	444.74'	TBC POC, ADA C&G
473	"C1" 242+21.38	14.06' RT	445.27'	TB POC, RAMP FLARE
474	"C1" 242+19.74	14.00' RT	445.29'	TBC PC
475	"C1" 240+48.68	52.80' LT	445.26'	TBC VPI
476	"C1" 240+53.58	51.78' LT	445.20'	TBC VPI
477	"C1" 240+58.52	50.99' LT	445.16'	TBC VPI
478	"C1" 240+63.49	50.43' LT	445.12'	TBC VPI
479	"C1" 240+68.47	50.10' LT	445.09'	TBC VPI
480	"C1" 240+78.47	50.00' LT	445.04'	TBC VPI
481	"C1" 240+83.47	50.00' LT	445.03'	TBC VPI

PT#	STATION	OFFSET	ELEV	DESC
482	"C1" 240+88.47	50.00' LT	445.02'	TBC VPI
483	"C1" 240+98.47	49.75' LT	445.02'	TBC VPI
484	"C1" 241+03.40	48.92' LT	445.03'	TBC VPI
485	"C1" 241+47.48	41.57' LT	445.33'	PI, BEGIN ASPHALT
486	"C1" 241+74.49	46.50' LT	445.4'±	PI, SAWCUT, ME
487	"C1" 241+99.49	46.50' LT	445.4'±	PI, SAWCUT, ME
488	"C1" 242+48.94	37.65' LT	444.65'	POC, BACK LANDING
489	"C1" 242+57.23	43.24' LT	444.57'	POC, BACK LANDING
490	"C1" 242+63.36	63.72' LT	445.1'±	PI, SAWCUT, ME
491	"C1" 242+69.55	15.72' LT	444.69'	VALVE FG
492	"C1" 242+69.35	12.34' LT	444.75'	VALVE FG
493	"C1" 242+33.88	34.07' RT	444.68'	POC, BACK LANDING
494	"C1" 242+27.32	26.22' RT	444.88'	POC, BACK LANDING
495	"C1" 242+41.08	35.33' LT	445.13'	VALVE FG
496	"C1" 242+45.00	36.77' LT	444.92'	VALVE FG
497	"C1" 242+47.21	35.06' LT	444.79'	VALVE FG

PT#	STATION	OFFSET	RADIUS	DESC.
1037	"C1" 240+93.91	8.00 LT	42.00'	TBC
1038	"C1" 241+68.49	111.86 LT	85.86'	TBC
1039	"C1" 242+38.09	55.50 LT	29.50'	TBC
1040	"C1" 242+42.26	56.50 LT	20.00'	
1041	"C1" 242+17.16	37.50 RT	23.50'	TBC
1042	"C1" 242+20.70	38.50 RT	14.00'	

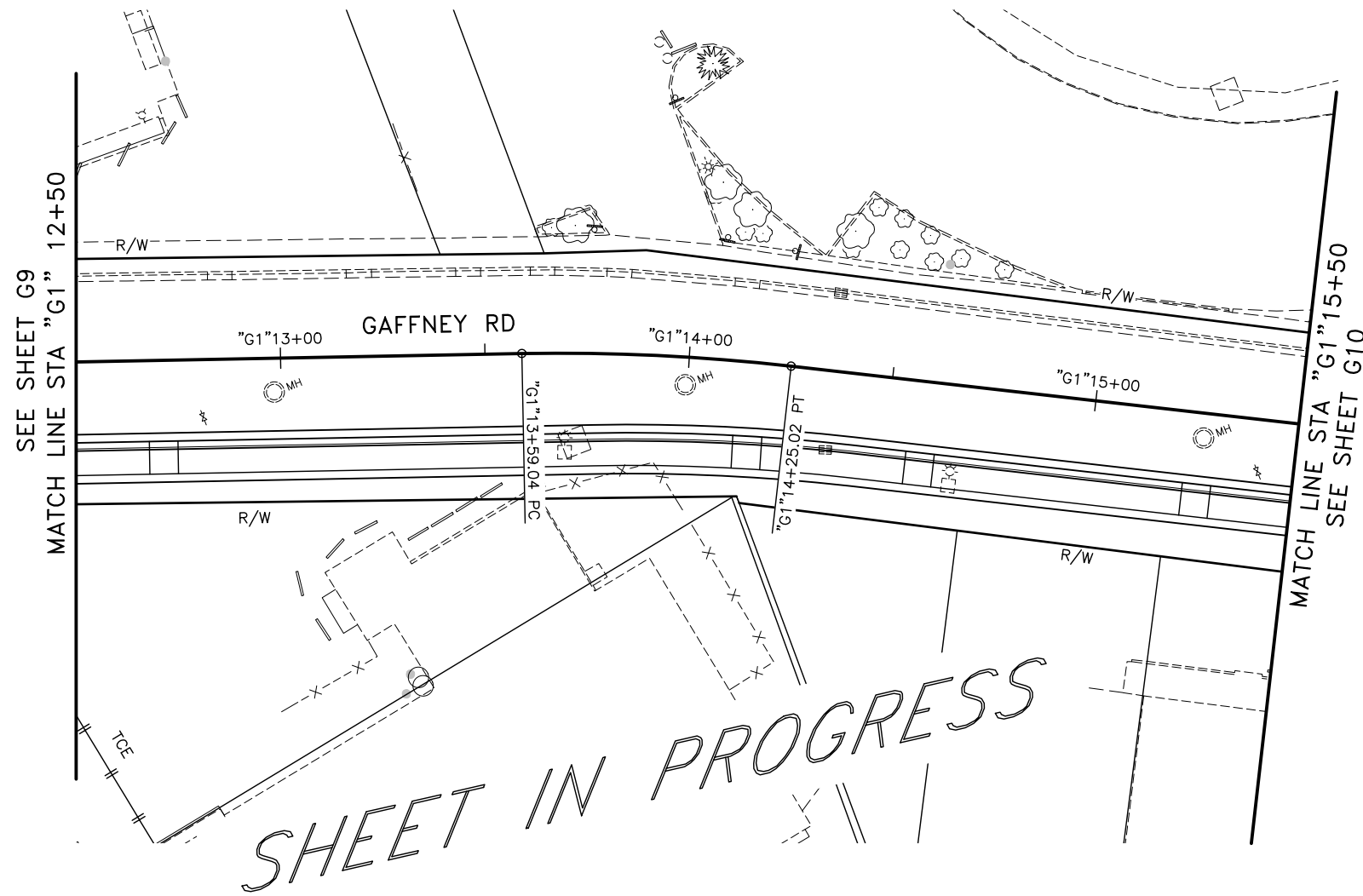
GRADING PLAN

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G9	G15



GRADING PLAN

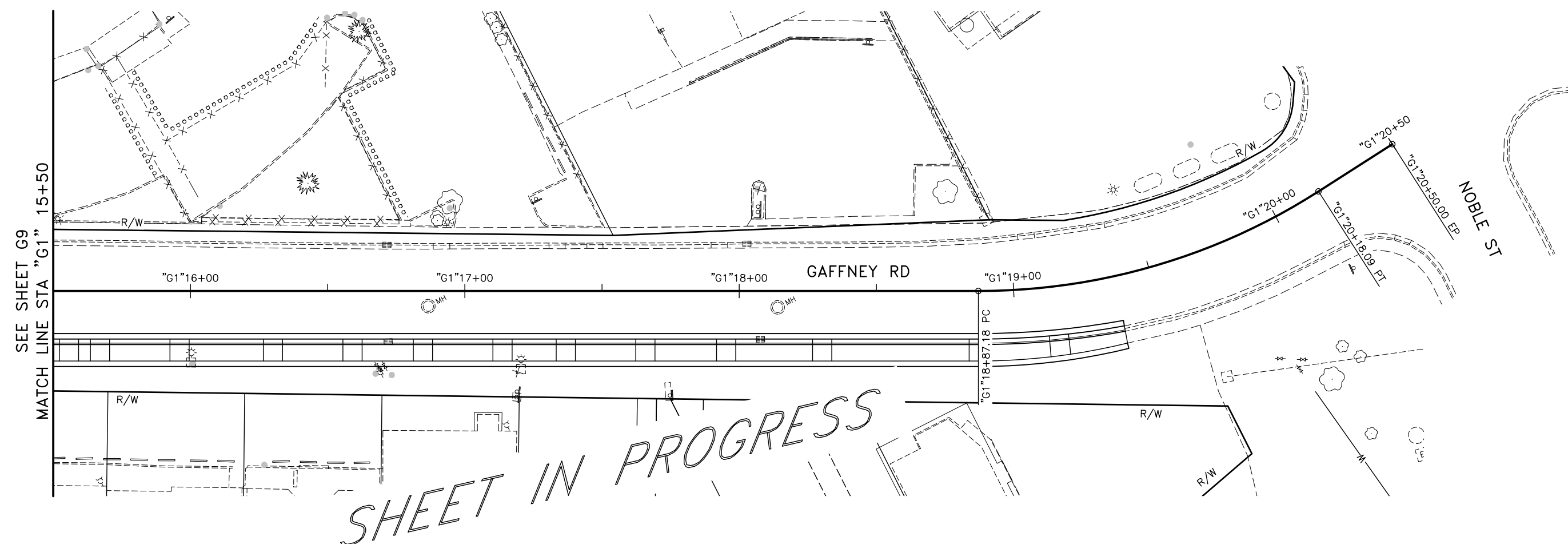
PLANS DEVELOPED BY:
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G10	G15



SHEET IN PROGRESS

GRADING PLAN

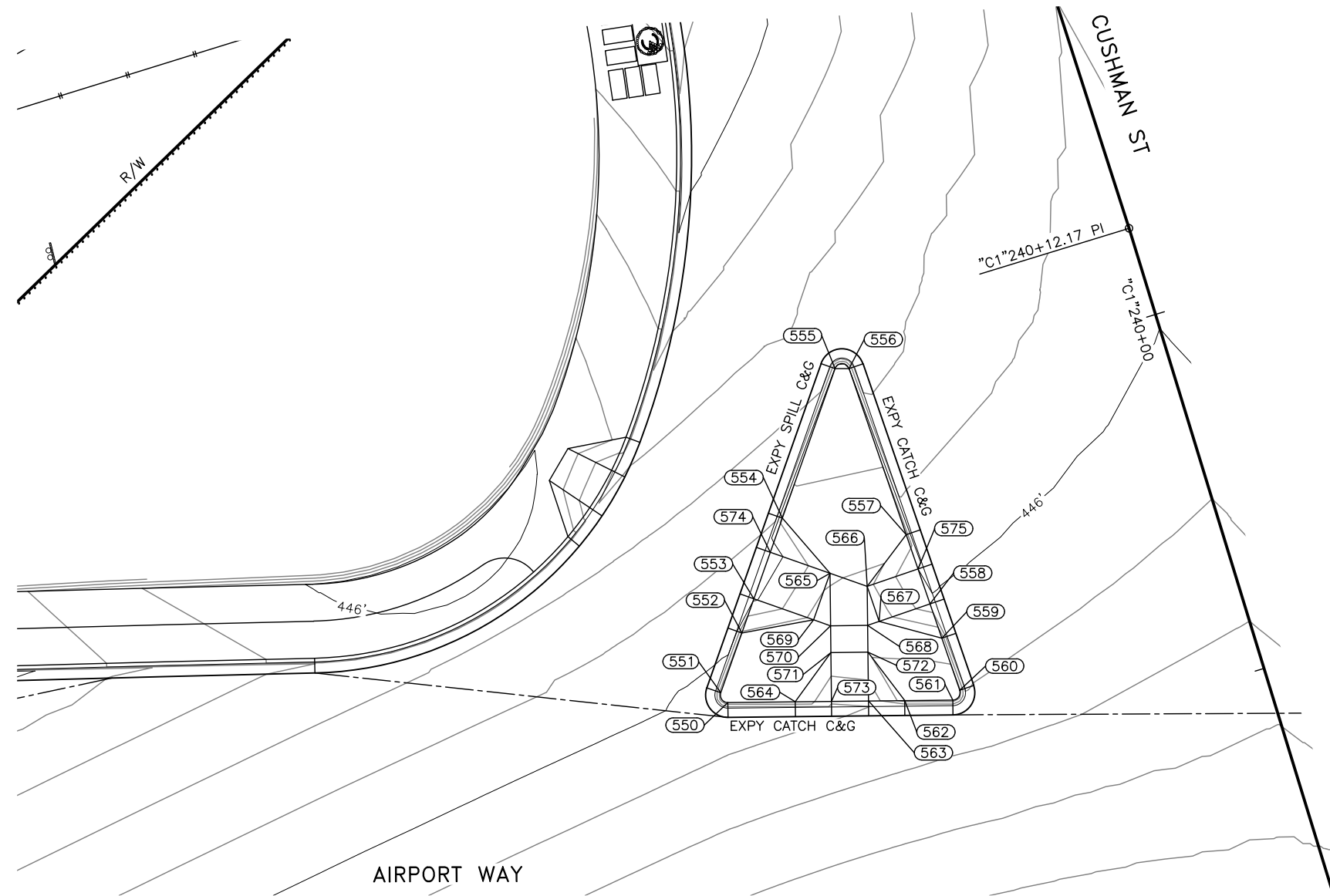
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
12/22/2022
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12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G11	G15

NOTES:

1. SEE SHEET E10 FOR SPLITTER ISLAND DETAIL.
2. SIGNAL EQUIPMENT NOT SHOWN FOR CLARITY



GRADING POINT TABLE					
PT#	STATION	OFFSET	ELEV	DESC	
550	"C1" 239+66.78	70.57' LT	446.54'	TBC PRC, GB	①
551	"C1" 239+68.33	71.09' LT	446.52'	TBC PT	②
552	"C1" 239+75.22	66.00' LT	446.42'	TBC PI, RAMP FLARE	
553	"C1" 239+79.16	63.10' LT	445.97'	TBC PI, ADA C&G	
554	"C1" 239+88.45	56.24' LT	446.25'	TBC PI, RAMP FLARE	
555	"C1" 240+05.69	43.51' LT	446.02'	TBC PC	③
556	"C1" 240+05.13	41.71' LT	446.01'	TBC PT	④
557	"C1" 239+81.42	40.90' LT	446.33'	TBC PI, RAMP FLARE	
558	"C1" 239+71.53	40.56' LT	446.08'	TBC PI, ADA C&G	
559	"C1" 239+66.64	40.39' LT	446.55'	TBC PI, RAMP FLARE	
560	"C1" 239+59.20	40.14' LT	446.65'	TBC PC	
561	"C1" 239+58.21	41.42' LT	446.73'	TBC PRC, GB	
562	"C1" 239+60.06	47.66' LT	446.69'	TBC PI, RAMP FLARE	
563	"C1" 239+61.44	52.35' LT	446.26'	TBC PI, ADA C&G	
564	"C1" 239+64.23	61.84' LT	446.60'	TBC PI, RAMP FLARE	
565	"C1" 239+79.44	52.27' LT	446.37'	PI, TOP RAMP	
566	"C1" 239+76.28	47.99' LT	446.46'	PI, TOP RAMP	
567	"C1" 239+71.28	47.82' LT	446.51'	PI, TOP RAMP	
568	"C1" 239+71.23	49.47' LT	446.54'	PI, SWLK	
569	"C1" 239+74.08	56.23' LT	446.45'	PI, TOP RAMP	
570	"C1" 239+72.64	54.27' LT	446.50'	PI, SWLK	
571	"C1" 239+69.17	55.29' LT	446.56'	PI, TOP RAMP	
572	"C1" 239+67.76	50.49' LT	446.59'	PI, TOP RAMP	
573	"C1" 239+62.85	57.14' LT	446.23'	TBC PI, ADA C&G	
574	"C1" 239+84.52	59.14' LT	445.90'	TBC PI, ADA C&G	
575	"C1" 239+76.53	40.73' LT	446.00'	TBC PI, ADA C&G	

GRADING CONSTRUCTION NOTES:

- ①. END CATCH C&G PAN, BEGIN GUTTER PAN TRANSITION
- ②. END GUTTER PAN TRANSITION, BEGIN SPILL GUTTER PAN
- ③. END SPILL C&G PAN, BEGIN GUTTER PAN TRANSITION
- ④. END GUTTER PAN TRANSITION, BEGIN CATCH GUTTER PAN

GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
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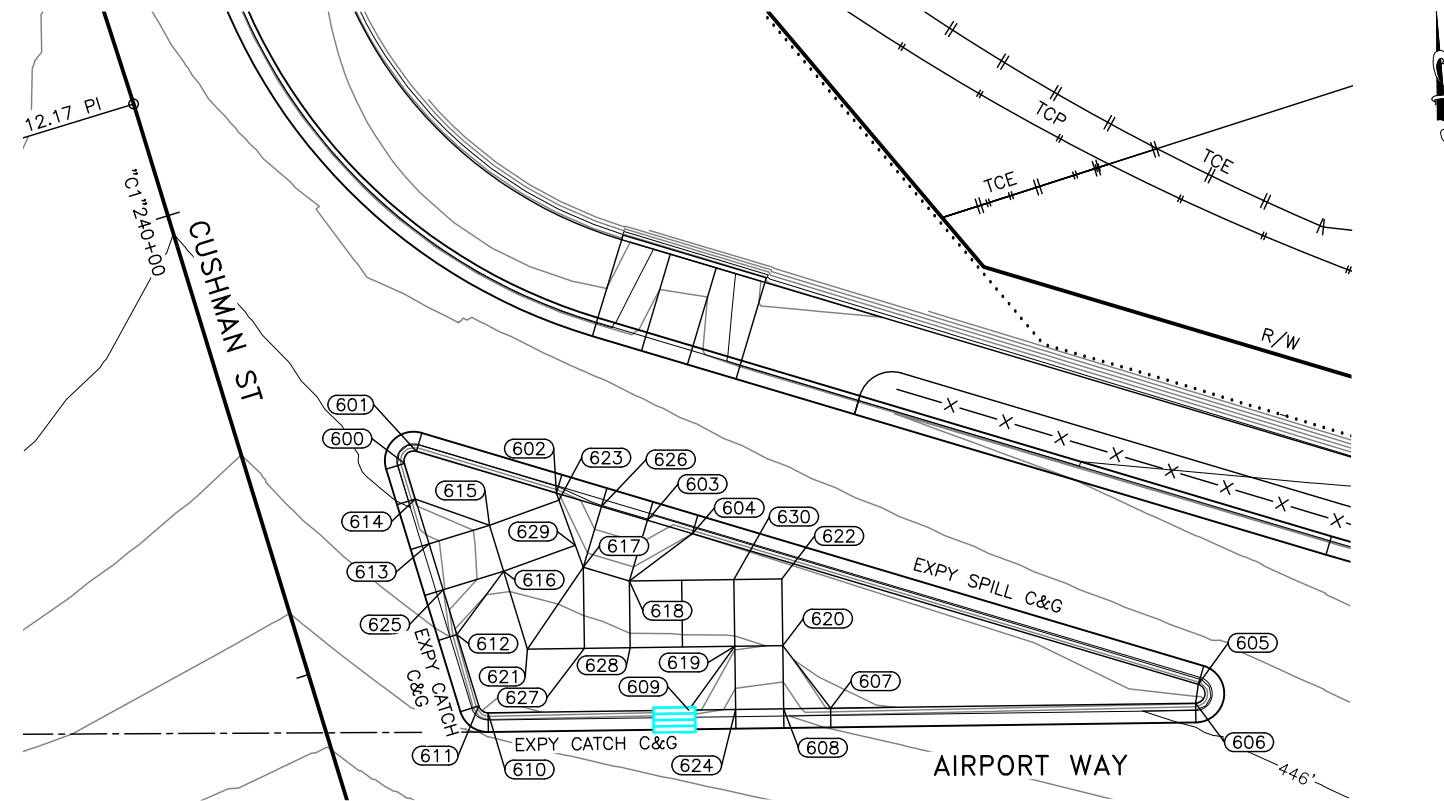
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PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G12	G15

NOTES:

- SEE SHEET E10 FOR SPLITTER ISLAND DETAIL.
- SIGNAL EQUIPMENT NOT SHOWN FOR CLARITY



GRADING POINT TABLE					
PT#	STATION	OFFSET	ELEV	DESC	
600	"C1" 239+68.10	16.00' RT	446.43'	TBC PC 1	①
601	"C1" 239+68.93	17.55' RT	446.44'	TBC PT 2	②
602	"C1" 239+60.50	30.23' RT	446.42'	TBC PI, RAMP FLARE	
603	"C1" 239+55.03	38.46' RT	446.01'	TBC PI, ADA C&G	
604	"C1" 239+52.32	42.53' RT	446.40'	TBC PI, RAMP FLARE	
605	"C1" 239+21.87	88.31' RT	446.34'	TBC PC 3	③
606	"C1" 239+20.08	87.47' RT	446.43'	TBC PT 4	④
607	"C1" 239+30.72	50.97' RT	446.64'	TBC PI, RAMP FLARE	
608	"C1" 239+32.09	46.27' RT	446.26'	TBC PI, ADA C&G	
609	"C1" 239+34.86	36.78' RT	446.72'	TBC PI, RAMP FLARE	
610	"C1" 239+40.71	16.72' RT	446.83'	TBC PC, GB	
611	"C1" 239+41.67	16.00' RT	446.77'	TBC PT	
612	"C1" 239+49.44	16.00' RT	446.66'	TBC PI, RAMP FLARE	
613	"C1" 239+59.33	16.00' RT	446.14'	TBC PI, ADA C&G	
614	"C1" 239+64.22	16.00' RT	446.45'	TBC PI, RAMP FLARE	
615	"C1" 239+59.33	22.58' RT	446.49'	PI, TOP RAMP	
616	"C1" 239+54.33	22.58' RT	446.56'	PI, TOP RAMP	
617	"C1" 239+52.30	30.64' RT	446.52'	PI, TOP RAMP	
618	"C1" 239+49.53	34.81' RT	446.52'	PI, TOP RAMP	
619	"C1" 239+39.81	43.32' RT	446.62'	PI, TOP RAMP	
620	"C1" 239+38.41	48.12' RT	446.59'	PI, TOP RAMP	
621	"C1" 239+45.85	22.58' RT	446.70'	PI, SWLK	
622	"C1" 239+45.08	50.06' RT	446.48'	PI, SWLK	
623	"C1" 239+59.72	30.27' RT	446.43'	PI, SWLK	
624	"C1" 239+33.49	41.47' RT	446.29'	TBC PI, ADA C&G	
625	"C1" 239+54.33	16.00' RT	446.19'	TBC PI, ADA C&G	
626	"C1" 239+57.79	34.30' RT	446.01'	TBC PI, ADA C&G	
627	"C1" 239+44.19	28.28' RT	446.65'	PI, SWLK	
628	"C1" 239+42.86	32.86' RT	446.62'	PI, SWLK	
629	"C1" 239+54.74	30.52' RT	446.49'	PI, SWLK	
630	"C1" 239+46.48	45.26' RT	446.50'	PI, SWLK	

GRADING CONSTRUCTION NOTES:

- END CATCH C&G PAN, BEGIN GUTTER PAN TRANSITION
- END GUTTER PAN TRANSITION, BEGIN SPILL GUTTER PAN
- END SPILL C&G PAN, BEGIN GUTTER PAN TRANSITION
- END GUTTER PAN TRANSITION, BEGIN CATCH GUTTER PAN

GRADING PLAN

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
 12/22/2022

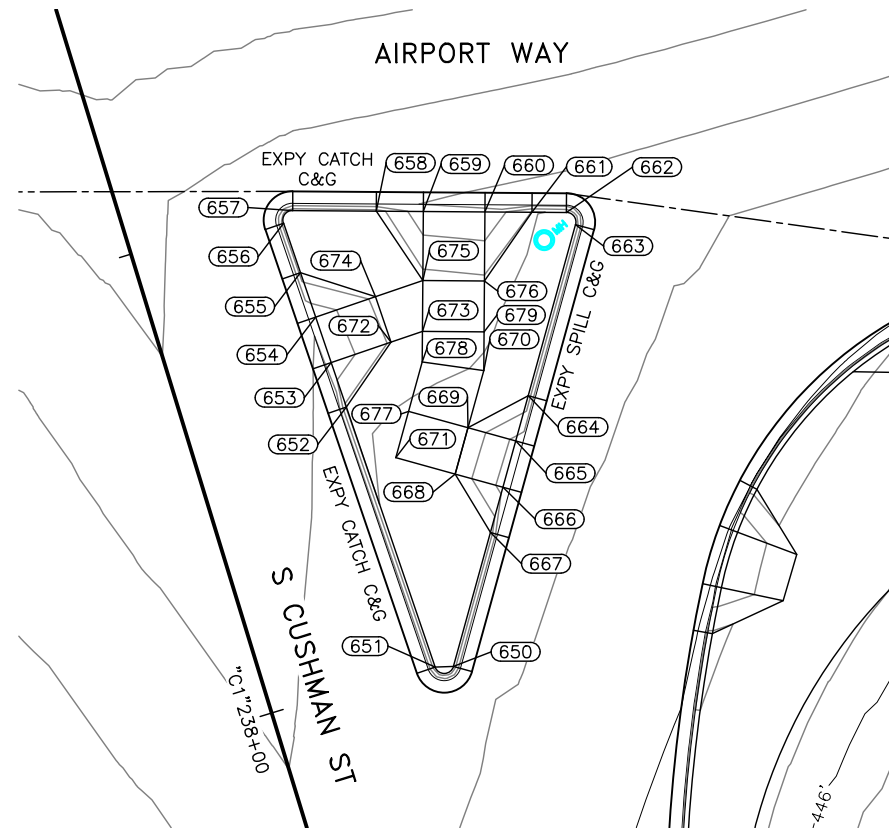
PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G13	G15

NOTES:

- SEE SHEET E10 FOR SPLITTER ISLAND DETAIL.
- SIGNAL EQUIPMENT NOT SHOWN FOR CLARITY



GRADING POINT TABLE					
PT#	STATION	OFFSET	ELEV	DESC	
650	"C1" 237+99.09	19.53' RT	446.74'	TBC PC	③
651	"C1" 237+99.59	17.69' RT	446.75'	TBC PT	④
652	"C1" 238+28.20	16.78' RT	446.83'	TBC PI, RAMP FLARE	
653	"C1" 238+33.08	16.62' RT	446.45'	TBC PI, ADA C&G	
654	"C1" 238+38.08	16.46' RT	446.47'	TBC PI, ADA C&G	
655	"C1" 238+42.97	16.31' RT	446.89'	TBC PI, RAMP FLARE	
656	"C1" 238+48.41	16.13' RT	446.91'	TBC PC	①
657	"C1" 238+49.39	17.43' RT	446.92'	TBC PRC, GB	②
658	"C1" 238+46.80	25.75' RT	446.88'	TBC PI, RAMP FLARE	
659	"C1" 238+45.34	30.41' RT	446.46'	TBC PI, ADA C&G	
660	"C1" 238+43.41	36.54' RT	446.43'	TBC PI, ADA C&G	
661	"C1" 238+41.94	41.20' RT	446.81'	TBC PI, RAMP FLARE	
662	"C1" 238+40.86	44.63' RT	446.79'	TBC PRC, GB	
663	"C1" 238+39.37	45.17' RT	446.76'	TBC PT	
664	"C1" 238+23.77	35.24' RT	446.75'	TBC PI, RAMP FLARE	
665	"C1" 238+19.64	32.62' RT	446.35'	TBC PI, ADA C&G	
666	"C1" 238+15.43	29.93' RT	446.34'	TBC PI, ADA C&G	
667	"C1" 238+11.30	27.31' RT	446.74'	TBC PI, RAMP FLARE	
668	"C1" 238+18.20	25.58' RT	446.74'	PI, TOP RAMP	
669	"C1" 238+22.42	28.26' RT	446.75'	PI, TOP RAMP	
670	"C1" 238+27.63	31.58' RT	446.79'	PI, SWLK	
671	"C1" 238+21.65	20.16' RT	446.77'	PI, SWLK	
672	"C1" 238+33.29	23.20' RT	446.82'	PI, TOP OF RAMP	
673	"C1" 238+33.40	26.67' RT	446.84'	PI, SWLK	
674	"C1" 238+38.29	23.04' RT	446.84'	PI, TOP RAMP	
675	"C1" 238+38.46	28.25' RT	446.87'	PI, TOP RAMP	
676	"C1" 238+36.53	34.38' RT	446.84'	PI, TOP RAMP	
677	"C1" 238+25.86	22.85' RT	446.79'	PI, SWLK	
678	"C1" 238+30.37	25.71' RT	446.82'	PI, SWLK	
679	"C1" 238+31.48	32.79' RT	446.81'	PI, SWLK	

GRADING CONSTRUCTION NOTES:

- END CATCH C&G PAN, BEGIN GUTTER PAN TRANSITION
- END GUTTER PAN TRANSITION, BEGIN SPILL GUTTER PAN
- END SPILL C&G PAN, BEGIN GUTTER PAN TRANSITION
- END GUTTER PAN TRANSITION, BEGIN CATCH GUTTER PAN

GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

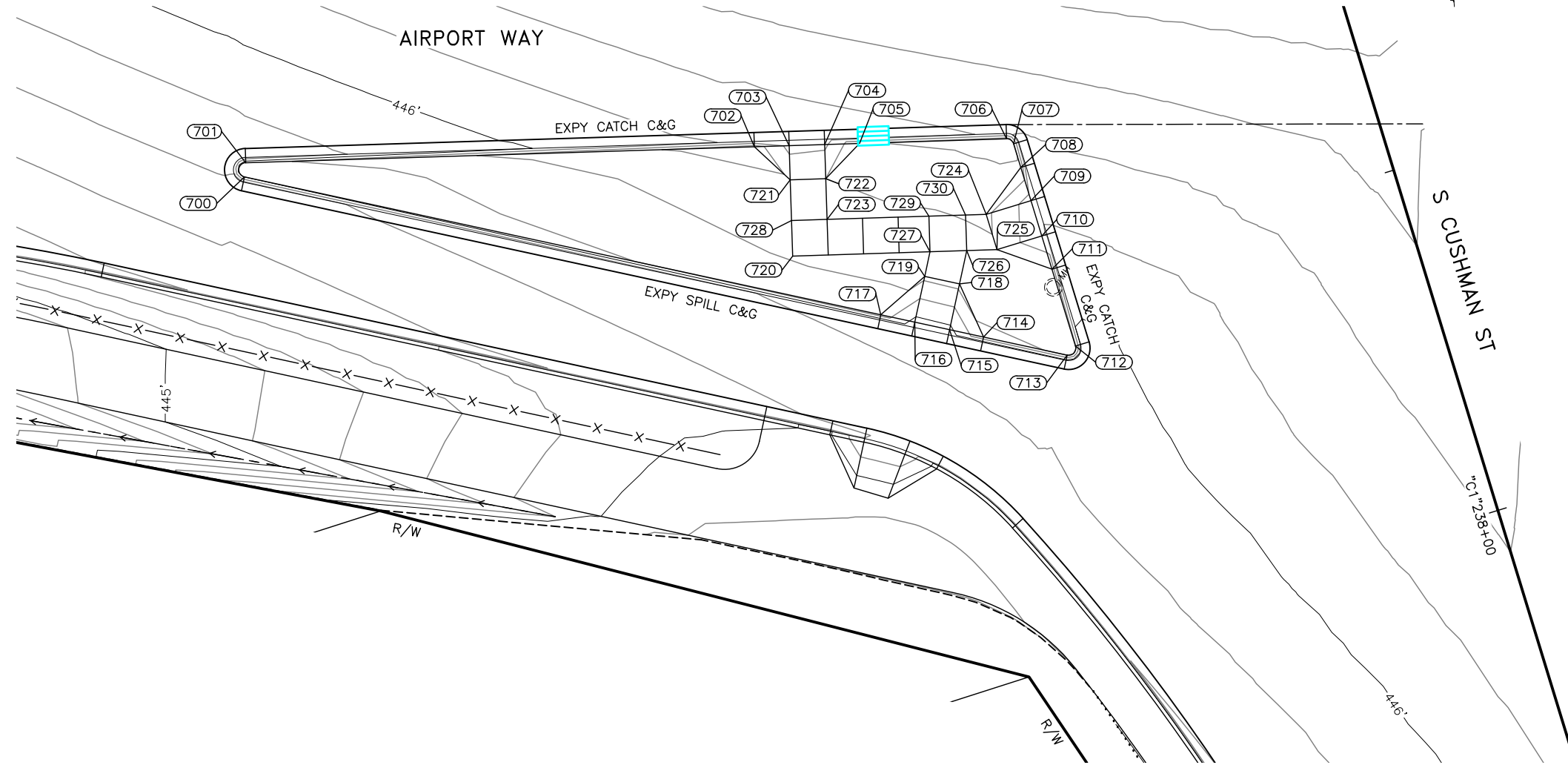
12/22/2022
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 PS&E

12/22/2022

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G14	G15

NOTES:

1. SEE SHEET E10 FOR SPLITTER ISLAND DETAIL.
2. SIGNAL EQUIPMENT NOT SHOWN FOR CLARITY



GRADING POINT TABLE					
PT#	STATION	OFFSET	ELEV	DESC	
700	"C1" 238+96.42	154.73' LT	446.01'	TBC PC 3	③
701	"C1" 238+98.25	153.98' LT	446.15'	TBC PT 4	④
702	"C1" 238+79.46	84.95' LT	446.70'	TBC PI, RAMP FLARE	
703	"C1" 238+78.18	80.24' LT	446.34'	TBC PI, ADA C&G	
704	"C1" 238+76.87	75.41' LT	446.36'	TBC PI, ADA C&G	
705	"C1" 238+75.58	70.69' LT	446.79'	TBC PI, RAMP FLARE	
706	"C1" 238+70.15	50.74' LT	446.88'	TBC PC, GB	
707	"C1" 238+69.18	50.00' LT	446.83'	TBC PT	
708	"C1" 238+65.72	50.00' LT	446.77'	TBC PI RAMP FLARE	
709	"C1" 238+60.83	50.00' LT	446.31'	TBC PI, ADA C&G	
710	"C1" 238+55.65	50.00' LT	446.24'	TBC PI, ADA C&G	
711	"C1" 238+50.76	50.00' LT	446.56'	TBC PI, RAMP FLARE	
712	"C1" 238+39.47	50.00' LT	446.43'	TBC PC 1	①
713	"C1" 238+38.59	51.49' LT	446.41'	TBC PT 2	②
714	"C1" 238+44.47	61.98' LT	446.37'	TBC PI, RAMP FLARE	
715	"C1" 238+46.86	66.25' LT	445.95'	TBC PI, ADA C&G	
716	"C1" 238+49.30	70.61' LT	445.94'	TBC PI, ADA C&G	
717	"C1" 238+51.68	74.89' LT	446.31'	TBC PI, RAMP FLARE	
718	"C1" 238+52.60	63.04' LT	446.46'	PI, TOP RAMP	
719	"C1" 238+55.04	67.40' LT	446.45'	PI, TOP RAMP	
720	"C1" 238+63.20	84.31' LT	446.42'	PI, SWLK	
721	"C1" 238+73.55	81.50' LT	446.58'	PI, TOP RAMP	
722	"C1" 238+72.23	76.67' LT	446.60'	PI, TOP RAMP	
723	"C1" 238+66.71	78.18' LT	446.51'	PI, SWLK	
724	"C1" 238+60.83	56.58' LT	446.64'	PI, TOP RAMP	
725	"C1" 238+55.65	56.58' LT	446.57'	PI, TOP RAMP	
726	"C1" 238+56.77	60.70' LT	446.53'	PI, SWLK	
727	"C1" 238+58.13	65.67' LT	446.50'	PI, SWLK	
728	"C1" 238+68.03	83.00' LT	446.49'	PI, SWLK	
729	"C1" 238+62.95	64.36' LT	446.57'	PI, SWLK	
730	"C1" 238+61.60	59.38' LT	446.61'	PI, SWLK	

GRADING CONSTRUCTION NOTES:

- ①. END CATCH C&G PAN, BEGIN GUTTER PAN TRANSITION
- ②. END GUTTER PAN TRANSITION, BEGIN SPILL GUTTER PAN
- ③. END SPILL C&G PAN, BEGIN GUTTER PAN TRANSITION
- ④. END GUTTER PAN TRANSITION, BEGIN CATCH GUTTER PAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

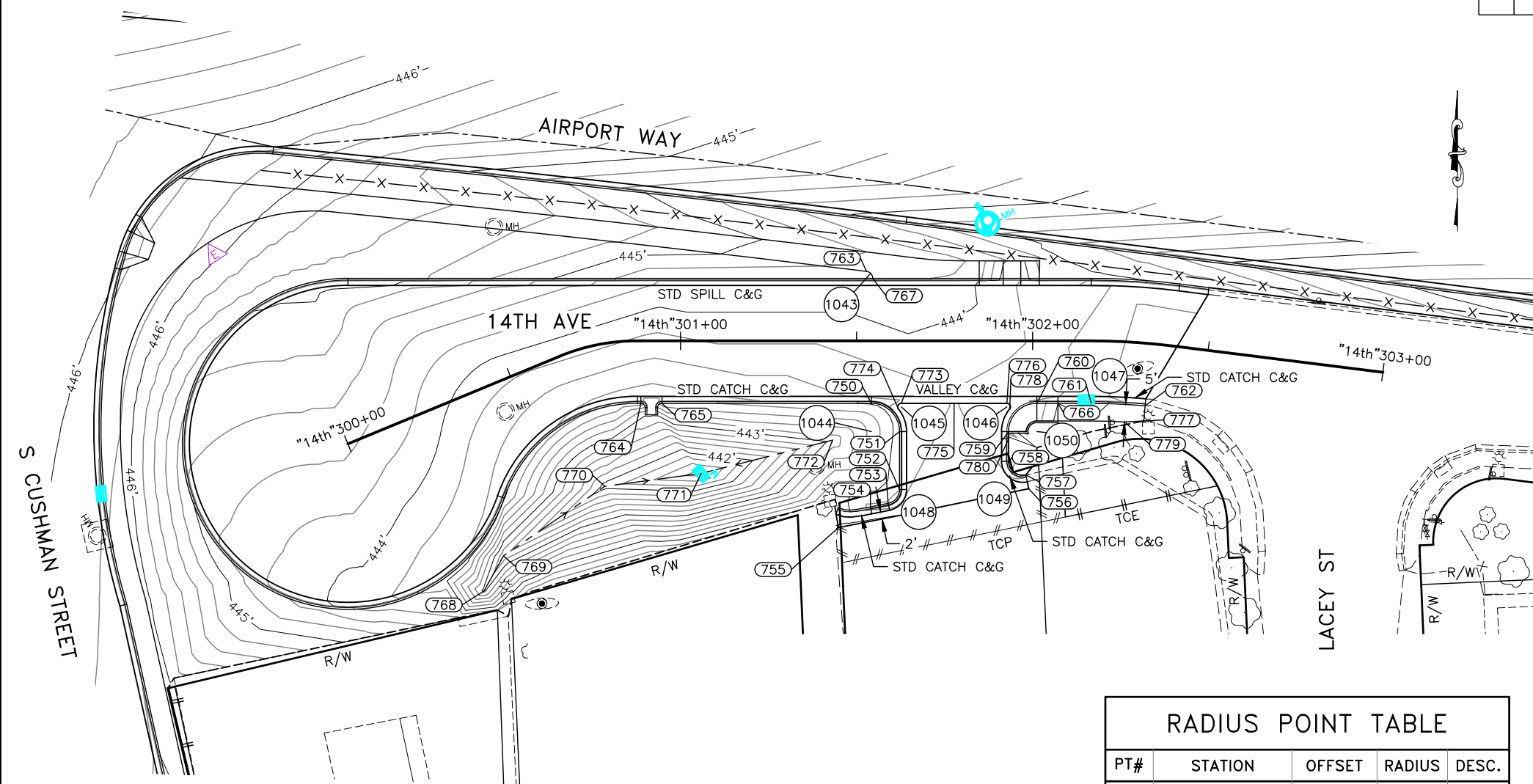
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GRADING PLAN

12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	G15	G15



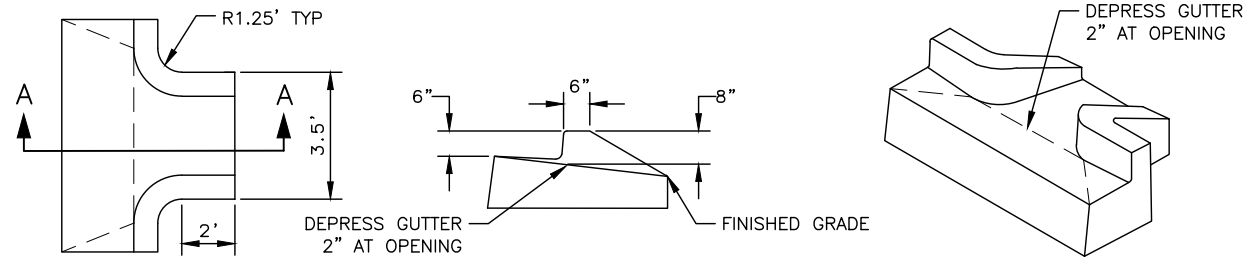
GRADING POINT TABLE

PT#	STATION	OFFSET	ELEV	DESC
750	"14th" 301+54.19	17.75' RT	444.02'	TBC PC
751	"14th" 301+62.19	25.75' RT	444.10'	TBC PT
752	"14th" 301+62.19	42.23' RT	444.20'	TBC PC
753	"14th" 301+58.98	46.15' RT	444.23'	TBC PT
754	"14th" 301+53.94	47.15' RT	444.25'	TBC PI, TERM TRANS*
755	"14th" 301+44.90	53.03' RT	444.0'±	PI, SAWCUT, ME
756	"14th" 301+98.91	42.00' RT	443.9'±	PI, SAWCUT, ME
757	"14th" 301+98.05	38.09' RT	444.3'±	TBC PC, SAWCUT, ME
758	"14th" 301+93.19	34.18' RT	444.15'	TBC PT
759	"14th" 301+93.19	25.75' RT	443.71'	TBC PC, ADA C&G
760	"14th" 302+01.19	17.75' RT	443.65'	TBC PT, ADA C&G
761	"14th" 302+16.65	17.75' RT	443.93'	TBC PC, SAG VPI
762	"14th" 302+33.61	17.74' RT	444.2'±	TBC PI, SAWCUT, ME
763	"14th" 301+52.84	19.73' LT	444.71'	PC
764	"14th" 300+88.72	17.75' RT	443.72'	TBC PI, SAG VPI**
765	"14th" 300+94.72	17.75' RT	443.72'	TBC PI, SAG VPI**
766	"14th" 302+07.19	17.75' RT	444.00'	TBC PI, RAMP FLARE
767	"14th" 301+54.59	17.75' LT	444.65'	TBC PT
768	"14th" 300+19.72	53.40' RT	442.94'	PI, BEGIN DITCH
769	"14th" 300+28.71	46.27' RT	442.65'	PI, DITCH
770	"14th" 300+62.85	39.03' RT	441.91'	PI, DITCH
771	"14th" 301+05.87	37.66' RT	441.30'	PI, INLET
772	"14th" 301+43.21	28.18' RT	443.08'	PI, END DITCH
773	"14th" 301+62.68	17.75' RT	443.70'	TBC PT, VALLEY GUTTER
774	"14th" 301+61.91	19.39' RT	443.67'	TBC PRC
775	"14th" 301+77.69	17.75' RT	443.81'	TBC VPI
776	"14th" 301+92.71	17.75' RT	443.73'	TBC PC, VALLEY GUTTER
777	"14th" 302+33.61	22.09' RT	444.2'±	PI, SAWCUT, ME
778	"14th" 301+93.48	19.39' RT	443.69'	TBC PRC, ADA C&G
779	"14th" 302+27.47	22.74' RT	444.14'	PI
780	"14th" 301+93.19	27.75' RT	444.12'	TBC PI, RETURN FULL HEIGHT C&G

RADIUS POINT TABLE

PT#	STATION	OFFSET	RADIUS	DESC.
1043	"14th" 301+52.59	17.75 LT	2.00'	TBC
1044	"14th" 301+54.19	25.75 RT	8.00'	
1045	"14th" 301+62.68	18.75 RT	1.00'	LIP
1046	"14th" 301+92.71	18.75 RT	1.00'	LIP
1047	"14th" 302+28.12	180.36 RT	162.62'	TBC
1048	"14th" 301+58.19	42.23 RT	4.00'	TBC
1049	"14th" 301+97.19	34.18 RT	4.00'	TBC
1050	"14th" 302+01.19	25.75 RT	8.00'	

* SEE DETAIL ON SHEET E8
 ** SEE DETAIL THIS SHEET



DETAIL
NTS

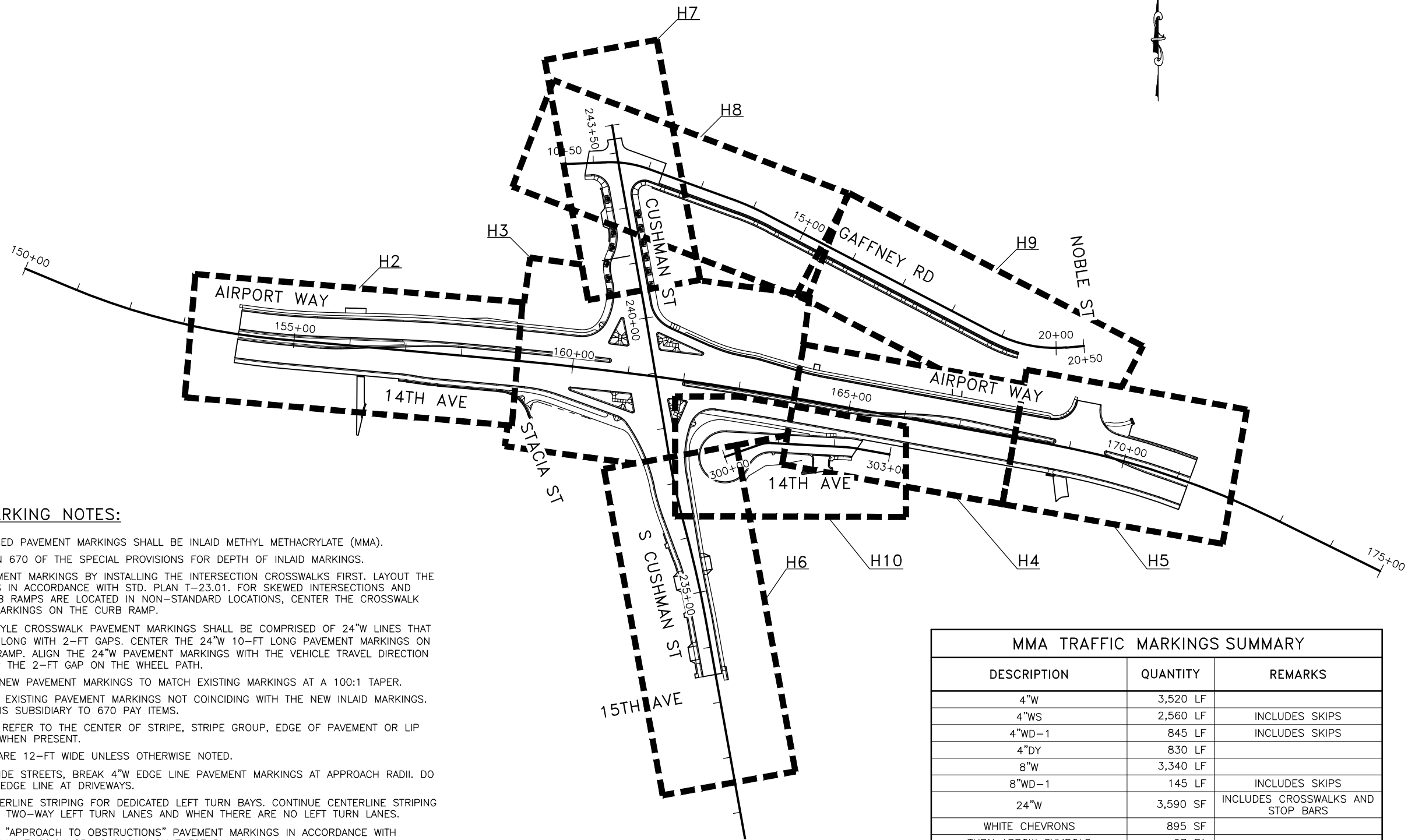
GRADING PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
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12/22/2022

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H1	H53



TRAFFIC MARKING NOTES:

- ALL PROPOSED PAVEMENT MARKINGS SHALL BE INLAID METHYL METHACRYLATE (MMA).
- SEE SECTION 670 OF THE SPECIAL PROVISIONS FOR DEPTH OF INLAID MARKINGS.
- BEGIN PAVEMENT MARKINGS BY INSTALLING THE INTERSECTION CROSSWALKS FIRST. LAYOUT THE CROSSWALKS IN ACCORDANCE WITH STD. PLAN T-23.01. FOR SKEWED INTERSECTIONS AND WHERE CURB RAMPS ARE LOCATED IN NON-STANDARD LOCATIONS, CENTER THE CROSSWALK PAVEMENT MARKINGS ON THE CURB RAMP.
- "LADDER" STYLE CROSSWALK PAVEMENT MARKINGS SHALL BE COMPRISED OF 24"W LINES THAT ARE 10-FT LONG WITH 2-FT GAPS. CENTER THE 24"W 10-FT LONG PAVEMENT MARKINGS ON THE CURB RAMP. ALIGN THE 24"W PAVEMENT MARKINGS WITH THE VEHICLE TRAVEL DIRECTION AND CENTER THE 2-FT GAP ON THE WHEEL PATH.
- TRANSITION NEW PAVEMENT MARKINGS TO MATCH EXISTING MARKINGS AT A 100:1 TAPER.
- REMOVE ALL EXISTING PAVEMENT MARKINGS NOT COINCIDING WITH THE NEW INLAID MARKINGS. THIS WORK IS SUBSIDIARY TO 670 PAY ITEMS.
- DIMENSIONS REFER TO THE CENTER OF STRIPE, STRIPE GROUP, EDGE OF PAVEMENT OR LIP OF GUTTER WHEN PRESENT.
- ALL LANES ARE 12-FT WIDE UNLESS OTHERWISE NOTED.
- AT MINOR SIDE STREETS, BREAK 4"W EDGE LINE PAVEMENT MARKINGS AT APPROACH RADII. DO NOT BREAK EDGE LINE AT DRIVEWAYS.
- BREAK CENTERLINE STRIPING FOR DEDICATED LEFT TURN BAYS. CONTINUE CENTERLINE STRIPING FOR CENTER TWO-WAY LEFT TURN LANES AND WHEN THERE ARE NO LEFT TURN LANES.
- INSTALL THE "APPROACH TO OBSTRUCTIONS" PAVEMENT MARKINGS IN ACCORDANCE WITH STANDARD PLAN T-20.04 OR AS SHOWN ON THESE PLANS.
- INSTALL TURN ARROWS WHERE SHOWN AND ACCORDING TO STD. PLAN T-21.04. DO NOT INSTALL "ONLY" MARKINGS UNLESS SHOWN ON THE STRIPING PLAN.
- PAINT THE TOP AND FACE OF ALL RAMPED MEDIAN NOSES AND THE CURB AND GUTTER ISLAND NOSES WITH 20 MILS OF SURFACE APPLIED YELLOW METHYL METHACRYLATE TRAFFIC PAINT. THIS WORK IS SUBSIDIARY TO 670 PAY ITEMS.
- LOCATE STOP BARS A MINIMUM OF EITHER 4' FROM BACK OF SIDEWALK OR 10' FROM FACE OF CURB, WHICHEVER PROVIDES THE GREATER OFFSET FROM BACK OF SIDEWALK.
- STRIPING CONFIGURATIONS IN THIS PLAN SET ARE APPROXIMATE. THE CONTRACTOR SHALL PERFORM PRELIMINARY SPOTTING (RABBIT TRACKING) OF STRIPING AT LEAST 48 HOURS PRIOR TO FINAL MILLING AND APPLICATION OF MARKINGS. THE ENGINEER WILL THEN APPROVE THE LAYOUT OR MAKE MODIFICATIONS AS REQUIRED.

MMA TRAFFIC MARKINGS SUMMARY		
DESCRIPTION	QUANTITY	REMARKS
4"W	3,520 LF	
4"WS	2,560 LF	INCLUDES SKIPS
4"WD-1	845 LF	INCLUDES SKIPS
4"DY	830 LF	
8"W	3,340 LF	
8"WD-1	145 LF	INCLUDES SKIPS
24"W	3,590 SF	INCLUDES CROSSWALKS AND STOP BARS
WHITE CHEVRONS	895 SF	
TURN ARROW SYMBOLS	27 EA	
COMBINATION ARROW SYMBOL	1 EA	
THROUGH ARROW SYMBOLS	2 EA	
ONLY SYMBOLS	2 EA	
YELLOW RAMPED MEDIAN NOSES	8 EA	INCLUDES ISLANDS

APPROACH KEY



SIGNING AND STRIPING SHEET LAYOUT

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

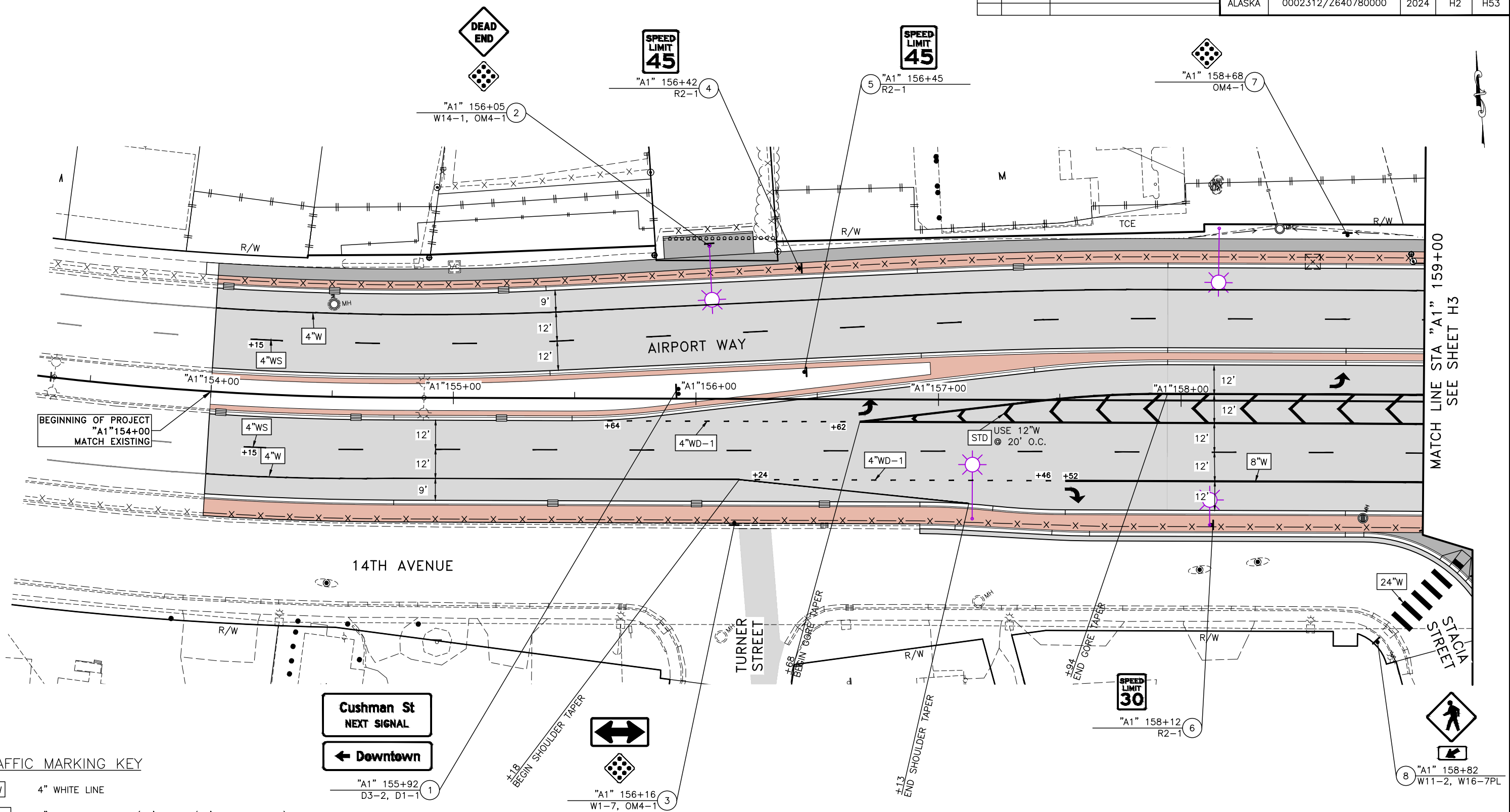
12/22/2022
REVIEW
PS&E

12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPE\385_Airport & Cushman Reconstruction\DWGS\C\Sheets\64078_H1_Sheet Layout-H1_Thu_Dec/22/22_01:31pm KE#: 00385 (Bill Paddock)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H2	H53

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_H2-H10_SIGN-STRIPING-H2_Thu, Dec/22/22 02:29pm
 (Bill Paddock) KE# 00385



TRAFFIC MARKING KEY

4"W	4" WHITE LINE
4"WS	4" WHITE SKIP LINE (10' STRIPE/30' SKIP PATTERN)
4"WD-1	4" WHITE DOTTED LINE (2' STRIPE/6' SKIP PATTERN)
4"DY	4" DOUBLE YELLOW LINE
8"W	8" WHITE LINE
8"WD-1	8" WHITE DOTTED LINE (3' STRIPE/3' SKIP PATTERN)
STD	SEE STANDARD PLANS
DTL	SEE DETAILS ON H17 AND E-SHEETS

SIGNING KEY

#	STATION SIGN CODE(S)
—	SIGN LOCATION #

SIGNING AND STRIPING
1 OF 9

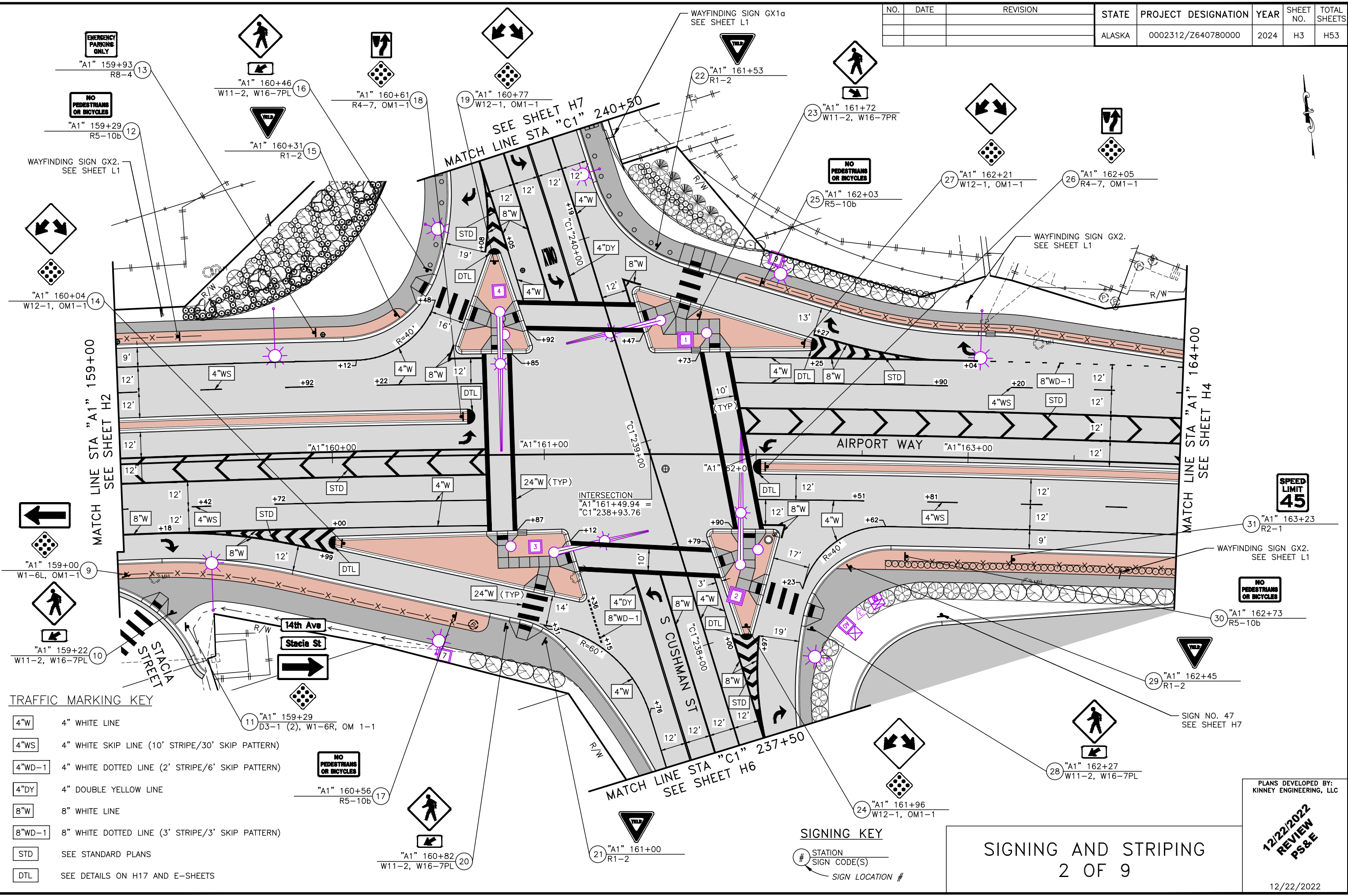
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
12/22/2022

MATCH LINE STA "A1" 159+00
SEE SHEET H3

SHEET 3
SHEET 4
SHEET 5

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_H2-H10_SIGN-STRIPING-H3_Thu, Dec/22/22 02:29pm
 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H3	H53



TRAFFIC MARKING KEY

4"W	4" WHITE LINE
4"WS	4" WHITE SKIP LINE (10' STRIPE/30' SKIP PATTERN)
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8"WD-1	8" WHITE DOTTED LINE (3' STRIPE/3' SKIP PATTERN)
STD	SEE STANDARD PLANS
DTL	SEE DETAILS ON H17 AND E-SHEETS

SIGNING KEY

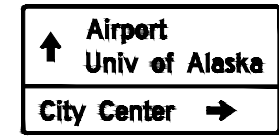
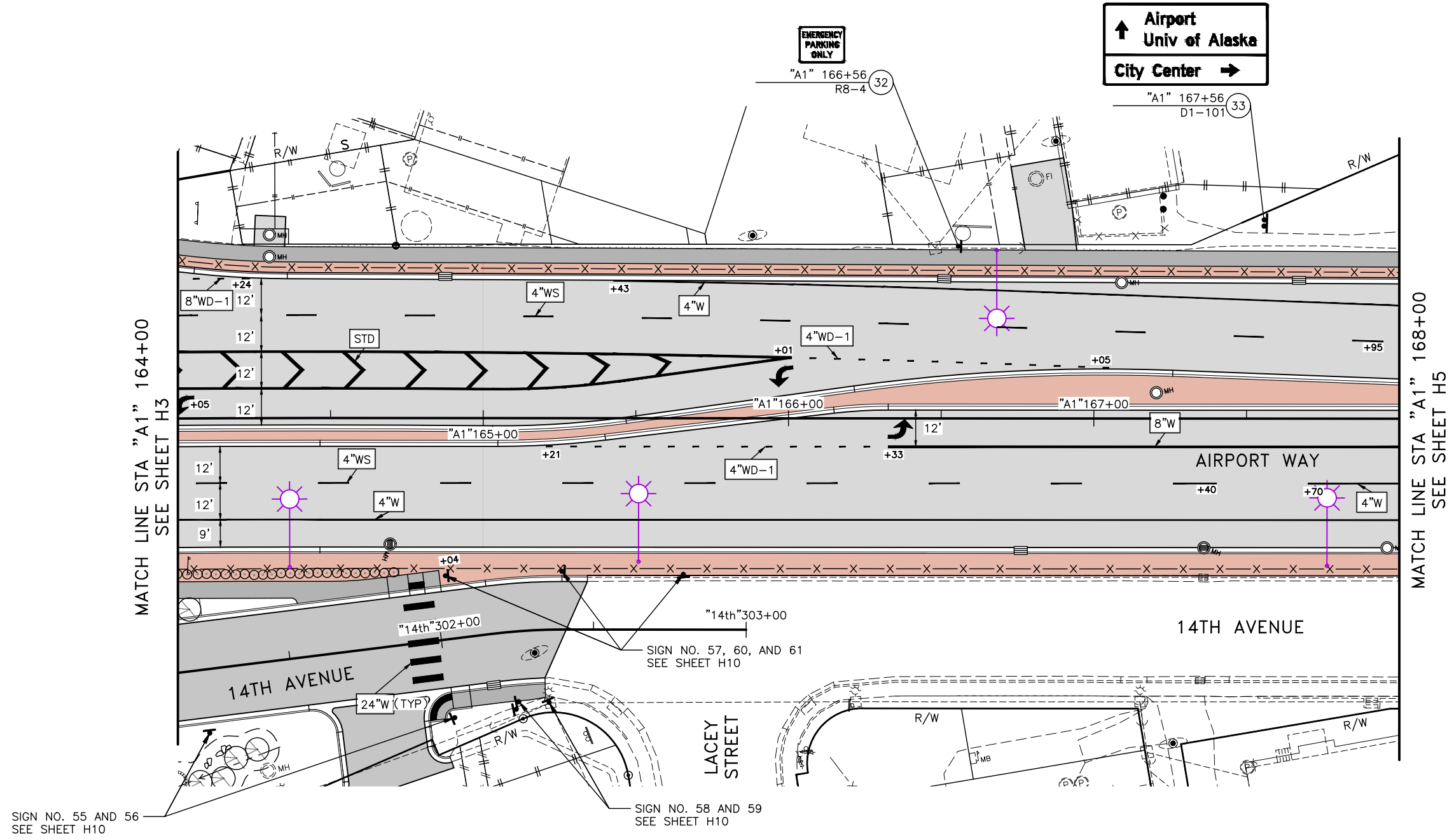
#	STATION
#	SIGN CODE(S)
—	SIGN LOCATION #

SIGNING AND STRIPING
 2 OF 9

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
 REVIEW
 PS&E
 12/22/2022

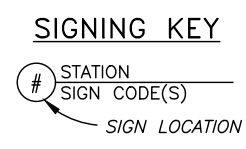
PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H4	H53



TRAFFIC MARKING KEY

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- 4"DY 4" DOUBLE YELLOW LINE
- 8"W 8" WHITE LINE
- 8"WD-1 8" WHITE DOTTED LINE (3' STRIPE/3' SKIP PATTERN)
- STD SEE STANDARD PLANS
- DTL SEE DETAILS ON H17 AND E-SHEETS



SIGNING AND STRIPING
3 OF 9

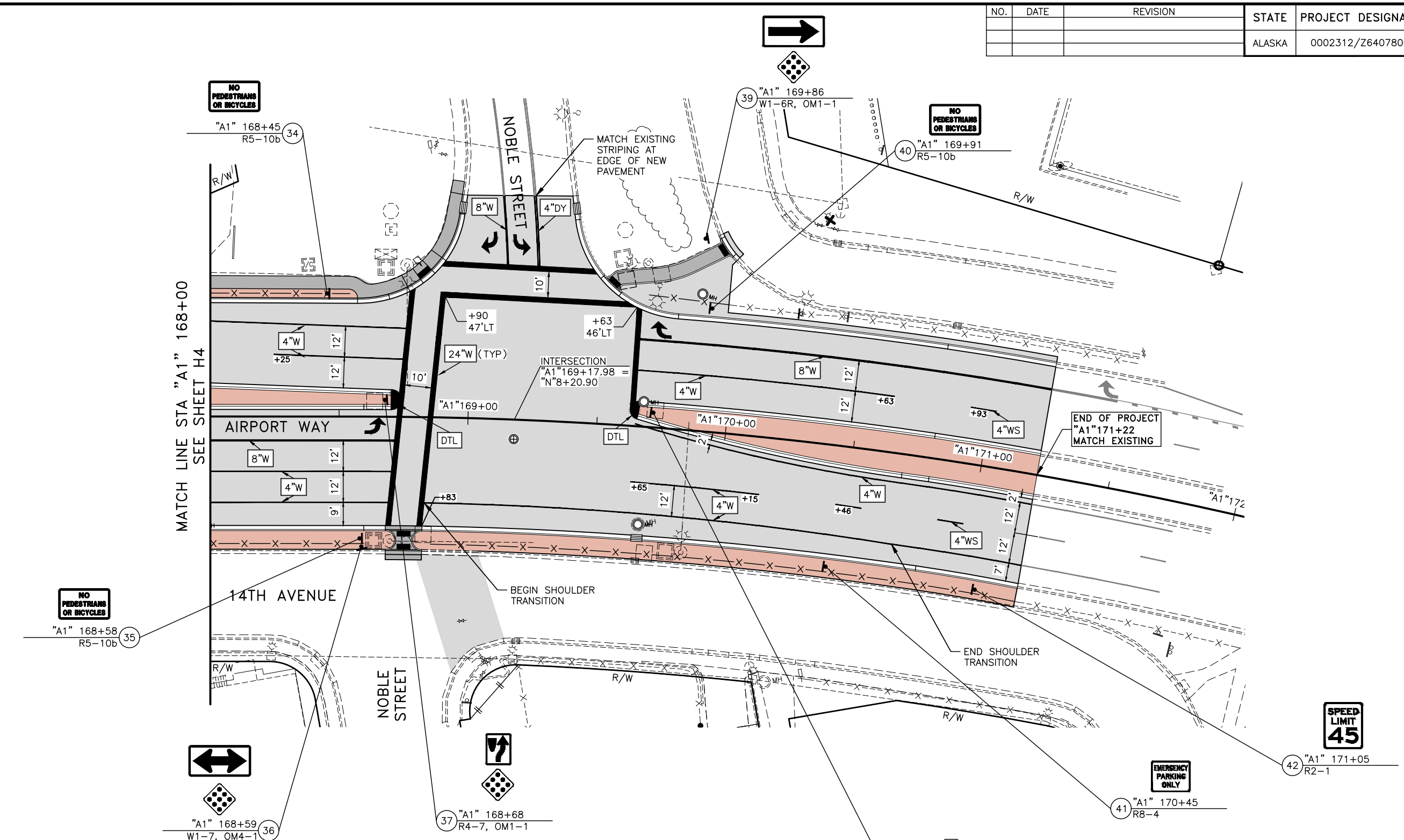
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

**12/22/2022
REVIEW
PS&E**

12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_H2-H10_SIGN-STRIP-H5_Thu, Dec/22/22 02:29pm
 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H5	H53



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STD	SEE STANDARD PLANS
DTL	SEE DETAILS ON H17 AND E-SHEETS

SIGNING KEY

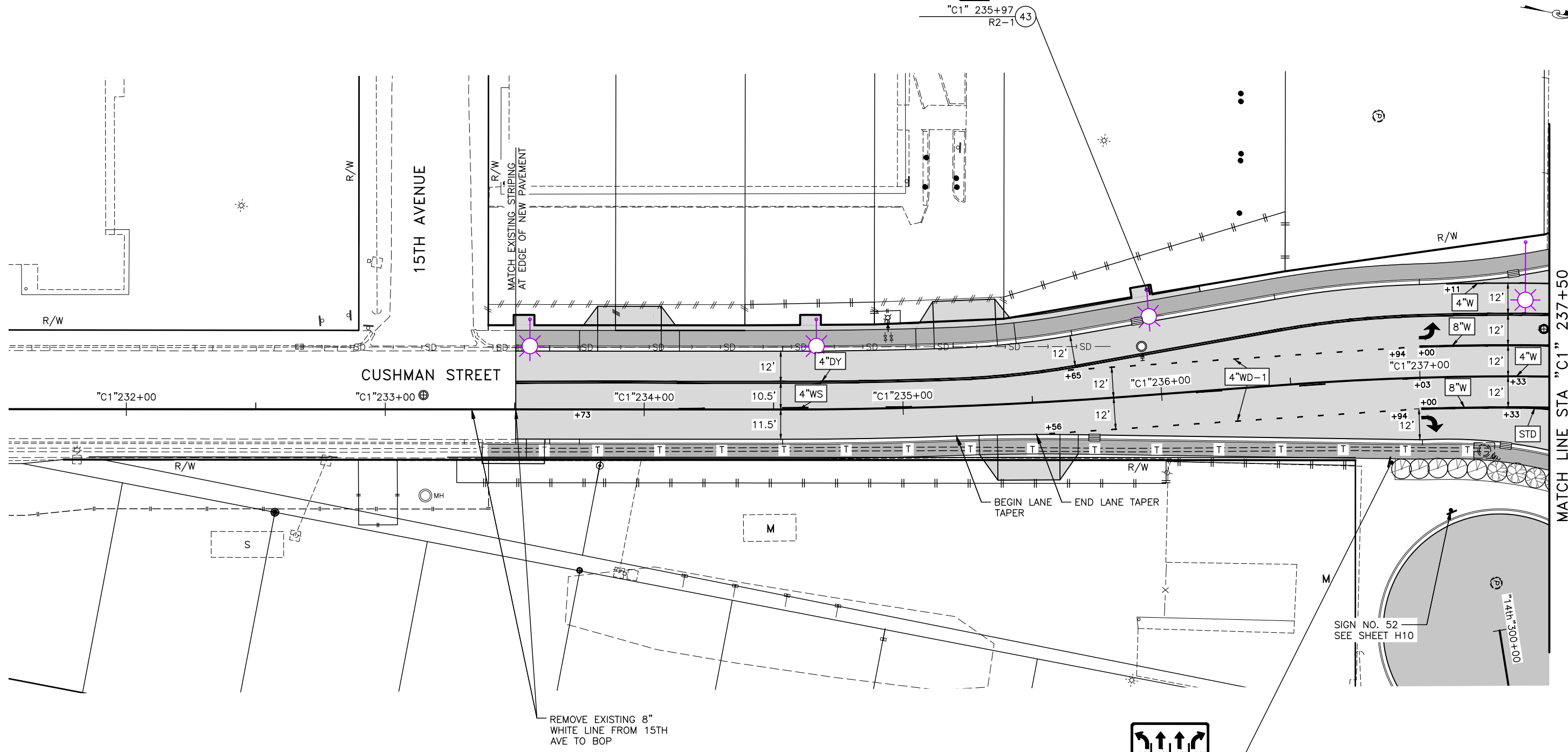
#	STATION SIGN CODE(S)
→	SIGN LOCATION #

SIGNING AND STRIPING
 4 OF 9

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
 12/22/2022

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H6	H53

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE#: 00385



TRAFFIC MARKING KEY

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- 8"W 8" WHITE LINE
- 8"WD-1 8" WHITE DOTTED LINE (3' STRIPE/3' SKIP PATTERN)
- STD SEE STANDARD PLANS
- DTL SEE DETAILS ON H17 AND E-SHEETS

SIGNING KEY

- # STATION
SIGN CODE(S)
- SIGN LOCATION #

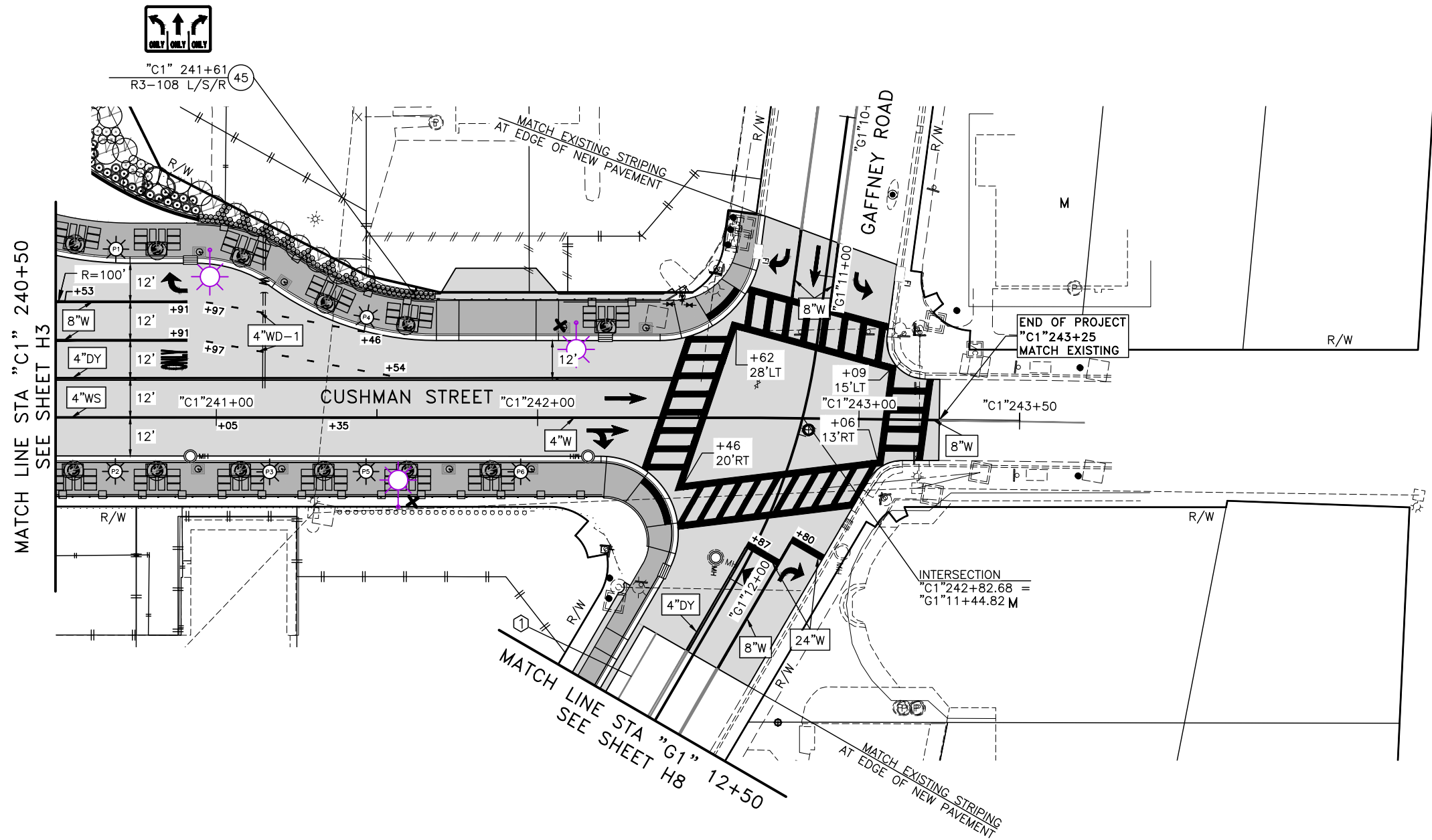
SIGNING AND STRIPING
5 OF 9

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
REVIEW
PS&E

12/22/2022

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H7	H53



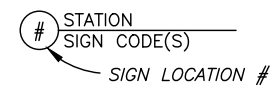
TRAFFIC MARKING KEY

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- 4"DY 4" DOUBLE YELLOW LINE
- 8"W 8" WHITE LINE
- 8"WD-1 8" WHITE DOTTED LINE (3' STRIPE/3' SKIP PATTERN)
- STD SEE STANDARD PLANS
- DTL SEE DETAILS ON H17 AND E-SHEETS

NOTES:

- ① OBLITERATE 4" WHITE SHOULDER STRIPE

SIGNING KEY



SIGNING AND STRIPING
6 OF 9

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

**12/22/2022
REVIEW
PS&E**

12/22/2022

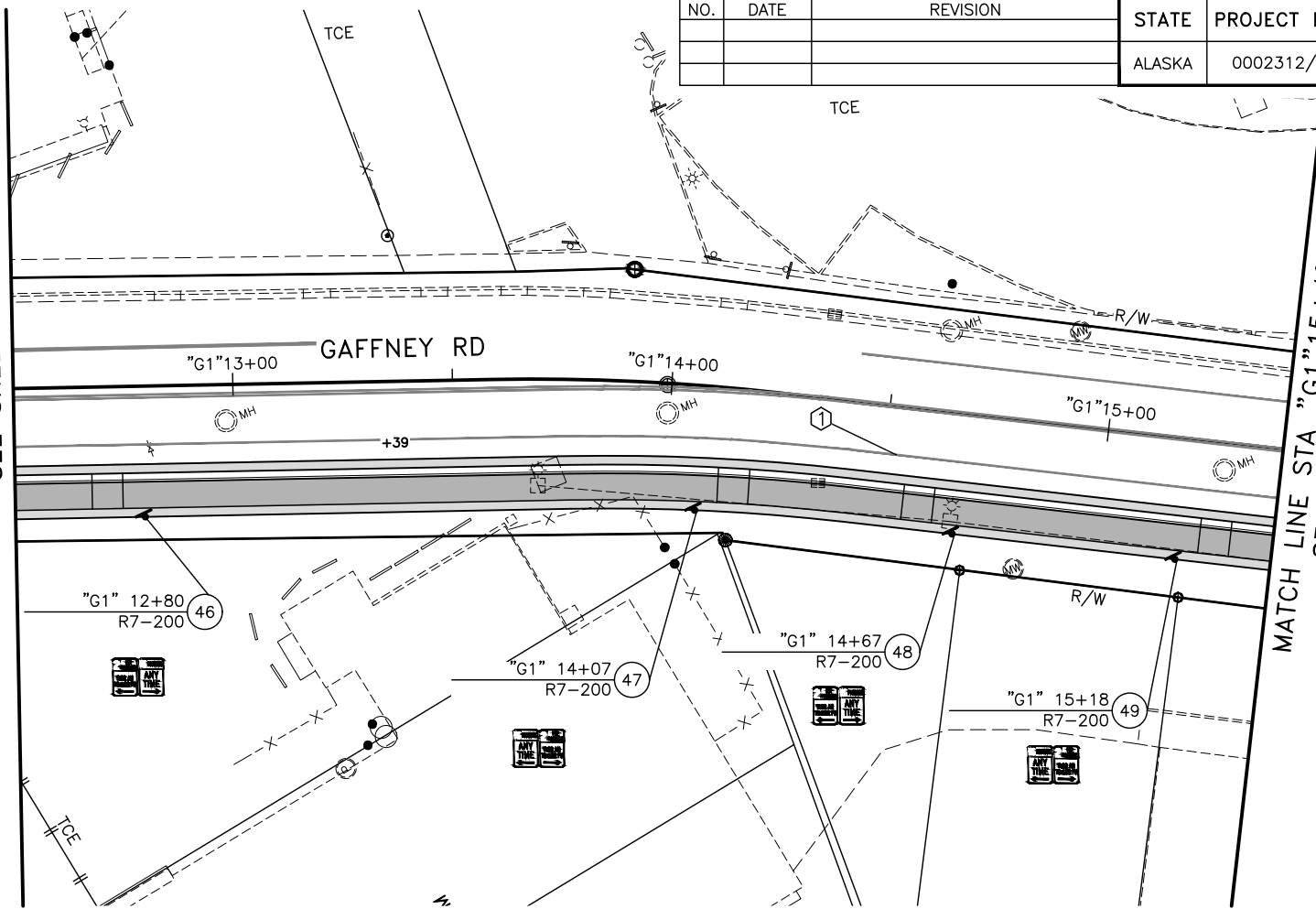
PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Bill Paddock) KE#: 00385

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_H2-H10_SIGN-STRIPE-H8 Thu, Dec/22/22 02:29pm
 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H8	H53

MATCH LINE STA "G1" 12+50
SEE SHEET H7



MATCH LINE STA "G1" 15+40
SEE SHEET H9

NOTES:

- ① OBLITERATE 4" WHITE SHOULDER STRIPE

SIGNING AND STRIPING
7 OF 9

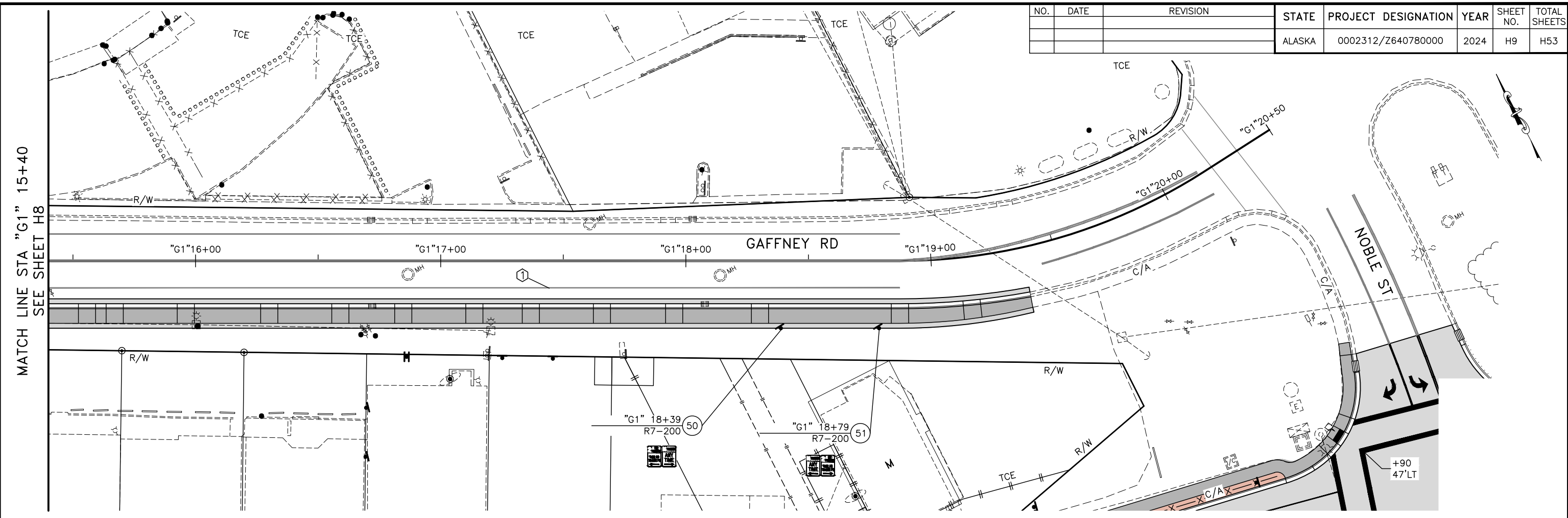
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
REVIEW
PS&E

12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H9	H53



NOTES:

- ① OBLITERATE 4" WHITE SHOULDER STRIPE

SIGNING AND STRIPING
8 OF 9

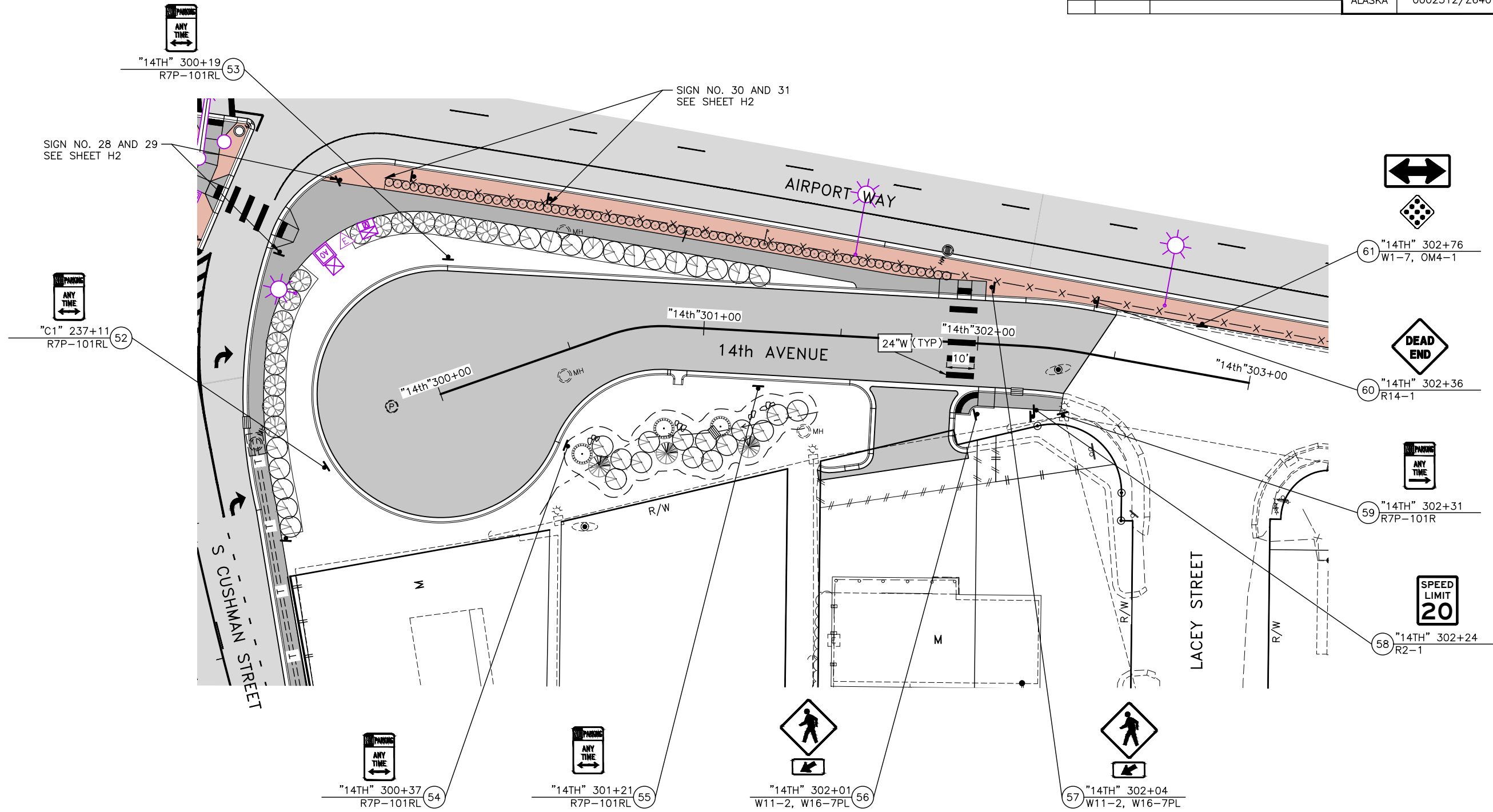
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
REVIEW
PS&E

12/22/2022

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H10	H53

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE#: 00385



TRAFFIC MARKING KEY

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- 4"DY 4" DOUBLE YELLOW LINE
- 8"W 8" WHITE LINE
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- STD SEE STANDARD PLANS
- DTL SEE DETAILS ON H17 AND E-SHEETS

SIGNING KEY

- # STATION SIGN CODE(S)
- SIGN LOCATION #

SIGNING AND STRIPING
 9 OF 9

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
REVIEW
PS&E

12/22/2022

SIGNING SUMMARY

LOC. NO.	STATION	LOCATION		ASDS CODE	LEGEND	SIZE		BRACING/FRAMING		AREA (SQ.FT.)	MTG. HGT. (FT.)	DIR.	POST			REMARKS	
		LT.	RT.			H	X	V	(INCHES)				BRACED	FRAMED	TYPE		SIZE (INCHES)
1	"A1" 155+92		X	D3-2	CUSHMAN ST	90	X	36		X	22.50		W			INSTALL ON EXISTING POSTS	
				D1-1	(LEFT ARROW) DOWNTOWN	90	X	24		X	15.00		W				
2	"A1" 156+05	X		W14-1	DEAD END	30	X	30	X		6.25		N			INSTALL ON LIGHT POLE	
				OM4-1	OBJECT MARKER, TYPE 4	18	X	18			2.25		N				
3	"A1" 156+16		X	W1-7	TWO DIRECTION LARGE ARROW	48	X	24	X		8.00		S	PST	2.5	1	
				OM4-1	OBJECT MARKER, TYPE 4	18	X	18			2.25		S				
4	"A1" 156+42	X		R2-1	SPEED LIMIT 45	30	X	36	X		7.50		E	PST	2.5	1	
5	"A1" 156+45	X		R2-1	SPEED LIMIT 45	30	X	36	X		7.50		E	PST	2.5	1	
6	"A1" 158+12		X	R2-1	SPEED LIMIT 30	24	X	30			5.00		E				INSTALL ON LIGHT POLE
7	"A1" 158+68	X		OM4-1	OBJECT MARKER, TYPE 4	18	X	18			2.25		N	PST	2.5	1	
8	"A1" 158+82		X	W11-2	PEDESTRIAN	30	X	30	X		6.25		NW	PST	2.5	1	
				W16-7PL	DOWNWARD DIAGONAL ARROW LEFT	24	X	12			2.00		NW				
9	"A1" 159+00		X	W1-6L	LARGE ARROW LEFT	48	X	24	X		8.00		S	PST	2.5	1	
				OM1-1	OBJECT MARKER, TYPE 1	18	X	18			2.25		S				
10	"A1" 159+22		X	W11-2	PEDESTRIAN	30	X	30	X		6.25		S	PST	2.5	1	
				W16-7PL	DOWNWARD DIAGONAL ARROW LEFT	24	X	12			2.00		S				
11	"A1" 159+29		X	SPECIAL 1	14TH AVE	30	X	8			3.33		S	PST	2.5	1	
				SPECIAL 2	STACIA ST	30	X	8			3.33		W				
				W1-6R	LARGE ARROW RIGHT	48	X	24	X		8.00		W				
				OM1-1	OBJECT MARKER, TYPE 1	18	X	18			2.25		W				
12	"A1" 159+29	X		R5-10b	NO PEDESTRIANS OR BICYCLES	30	X	18	X		3.75		E				INSTALL ON FENCE POST. SEE NOTE 20.
13	"A1" 159+93	X		R8-4	EMERGENCY PARKING ONLY	30	X	24	X		5.00		E	PST	2.5	1	
14	"A1" 160+04		X	W12-1	DOUBLE ARROW	36	X	36	X		9.00		E	PST	2.5	1	
				OM1-1	OBJECT MARKER, TYPE 1	18	X	18			2.25		E				
15	"A1" 160+31	X		R1-2	YIELD	36	X	36	X		9.00		SE	PST	2.5	1	
16	"A1" 160+46	X		W11-2	PEDESTRIAN	30	X	30	X		6.25		NE	PST	2.5	1	
				W16-7PL	DOWNWARD DIAGONAL ARROW LEFT	24	X	12			2.00		NE				
17	"A1" 160+56		X	R5-10b	NO PEDESTRIANS OR BICYCLES	30	X	18	X		3.75		SE	PST	2.5	1	
18	"A1" 160+61	X		R4-7	KEEP RIGHT	24	X	30			5.00		W	PST	2.5	1	
				OM1-1	OBJECT MARKER, TYPE 1	18	X	18			2.25		W				
19	"A1" 160+77	X		W12-1	DOUBLE ARROW	36	X	36	X		9.00		E	PST	2.5	1	
				OM1-1	OBJECT MARKER, TYPE 1	18	X	18			2.25		E				
20	"A1" 160+82		X	W11-2	PEDESTRIAN	30	X	30	X		6.25		NW	PST	2.5	1	
				W16-7PL	DOWNWARD DIAGONAL ARROW LEFT	24	X	12			2.00		NW				
21	"A1" 161+00		X	R1-2	YIELD	36	X	36	X		9.00		NW	PST	2.5	1	
22	"A1" 161+53	X		R1-2	YIELD	36	X	36	X		9.00		SE	PST	2.5	1	
23	"A1" 161+72	X		W11-2	PEDESTRIAN	30	X	30	X		6.25		SE	PST	2.5	1	
				W16-7PR	DOWNWARD DIAGONAL ARROW RIGHT	24	X	12			2.00		SE				
24	"A1" 161+96		X	W12-1	DOUBLE ARROW	36	X	36	X		9.00		E	PST	2.5	1	
				OM1-1	OBJECT MARKER, TYPE 1	18	X	18			2.25		E				

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H11	H53

SIGNING NOTES

1. REMOVE AND DISPOSE OF ALL EXISTING SIGNS AND SIGN POST FOUNDATIONS WITHIN THE PROJECT LIMITS, EXCEPT SIGNS DESIGNATED FOR REINSTALLATION, SALVAGE, OR OTHERWISE NOTED.
2. MOUNT SIGNS PER STANDARD DRAWING S-05.01. SIGNS THAT PROJECT OVER OR WITHIN 2 FEET OF THE SIDEWALK AND PATHWAYS SHALL BE MOUNTED TO A HEIGHT OF 8 FEET.
3. DETERMINE POST LENGTHS IN THE FIELD. DO NOT EXTEND POSTS ABOVE TOP OF SIGN.
4. UNLESS OTHERWISE NOTED, INSTALL PST POSTS WITH SLEEVE TYPE CONCRETE FOUNDATION PER STANDARD DRAWING S-30.04. ATTACH THE SIGN POST USING GALVANIZED 3/8" DIA. BOLT, NUT, SPLIT LOCK WASHER AND TWO FLAT WASHERS.
5. INSTALL "TUBE POST SIGN BRACING" AS SHOWN ON STANDARD DRAWING S-01.01 ON ALL SIGNS MOUNTED ON A SINGLE PST POST AND HAVING A HORIZONTAL DIMENSION OF 30 INCHES OR GREATER, EXCEPT STREET NAME SIGNS. INSTALL GALVANIZED SPLIT LOCK WASHERS ON ALL 3/8" BOLTS. 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. ATTACH ALL SIGNS TO THEIR SUPPORTS WITH 3/8" DIA. BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO POSTS WITH ALUMINUM DRIVE RIVETS. WIND WASHERS ARE NOT REQUIRED WITH DRIVE RIVETS. INCLUDE SPLIT LOCK WASHERS WHEN BOLTS ARE USED.
7. ALL FASTENER HARDWARE SHALL MEET THE REQUIREMENTS OF THE "FASTENER SPECIFICATION TABLE" ON SHEET H11.
8. SIGNS INSTALLED ON LIGHT POLES MAY REQUIRE TEMPORARY INSTALLATION ON 2-1/2" PST POST UNTIL LIGHT POLES ARE IN PLACE. THIS WORK IS SUBSIDIARY TO PAY ITEM 615.0001.0000.
9. WHERE TWO DIFFERENT STREET NAME SIGNS ARE TO BE LOCATED ON THE SAME POST, INSTALL THE CROSS-STREET PANEL IN THE LOWER POSITION. SEE SHEET H15 FOR DETAIL.
10. FOR TWO SEPARATE SINGLE SIDED STREET NAME SIGN PANELS PROVIDE SIGN BRACING AS INDICATED ON SHEET H15 AND STANDARD DRAWING S-01.01.
11. MAINTAIN EXISTING SIGNS UNTIL NEW SIGNS ARE INSTALLED. DO NOT LEAVE DUPLICATE OR CONFLICTING SIGNING UP AT ANY TIME.
12. LOCATE AND PROTECT ALL NEW AND EXISTING UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGN POSTS. NOT ALL UTILITIES MAY BE SHOWN ON THE SIGNING AND STRIPING PLANS. SEE OTHER PROJECT PLAN SHEETS AND AS-BUILT DRAWINGS FOR ADDITIONAL INFORMATION.
13. CLEARING AS DIRECTED BY THE ENGINEER MAY BE REQUIRED TO ENSURE ADEQUATE VISIBILITY OF SIGNS. THIS WORK IS SUBSIDIARY TO PAY ITEM 615.0001.0000.
14. PROVIDE WEATHER TIGHT CAPS ON ALL TUBE POSTS, EXCEPT PERFORATED STEEL TUBES.
15. PROVIDE FRANGIBLE COUPLING SYSTEMS IN ACCORDANCE WITH STANDARD DRAWING S-31.01.
16. HINGED JOINTS WITH FRANGIBLE FUSE PLATE ARE REQUIRED ON ALL MULTIPLE POST SIGNS WITH FRANGIBLE COUPLING SYSTEMS. THE HINGE LOCATION ON ALL POSTS SHALL BE THE SAME DISTANCE BELOW THE SIGNS, INSTEAD OF THE 6 INCH MINIMUM SHOWN ON STANDARD DRAWING S-31.01. SEE MANUFACTURER'S SPECIFICATION FOR HINGE LOCATION BELOW SIGN.
17. ADJUST SIGN LOCATIONS AT THE DIRECTION OF THE ENGINEER.
18. USE SERIES C LETTERS FOR D3-100 SERIES SIGNS UNLESS OTHERWISE NOTED. USE 4.5-INCH FOR DIMENSION "E" FOR 12-INCH D3-100 SIGNS. THE LETTERING INDICATING THE TYPE OF STREET (SUCH AS St, Ave, OR Rd) SHALL BE UPPER CASE AND LOWER CASE. THIS MODIFIES THE ASDS.
19. SEE SIGNAL SHEETS FOR SIGNS MOUNTED ON MAST ARMS.
20. EXTEND FENCE POST TO SUFFICIENT HEIGHT FOR SIGN INSTALLATION.

SIGNING SUMMARY

1 OF 3

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
 REVIEW
 PS&E

12/22/2022

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H12	H53

SIGNING SUMMARY

LOC. NO.	STATION	LOCATION		ASDS CODE	LEGEND	SIZE H X V (INCHES)		BRACING/FRAMING		AREA (SQ.FT.)	MTG. HGT. (FT.)	DIR.	TYPE	POST		REMARKS
		LT.	RT.			BRACED	FRAMED	SIZE (INCHES)	NO.							
25	"A1" 162+03	X		R5-10b	NO PEDESTRIANS OR BICYCLES	30 X 18	X		3.75			NW				INSTALL ON FENCE POST. SEE NOTE 20.
26	"A1" 162+05		X	R4-7 OM1-1	KEEP RIGHT OBJECT MARKER, TYPE 1	24 X 30 18 X 18			5.00 2.25			W W	PST	2.5	1	
27	"A1" 162+21	X		W12-1 OM1-1	DOUBLE ARROW OBJECT MARKER, TYPE 1	36 X 36 18 X 18	X		9.00 2.25			E E	PST	2.5	1	
28	"A1" 162+27		X	W11-2 W16-7PL	PEDESTRIAN DOWNWARD DIAGONAL ARROW LEFT	30 X 30 24 X 12	X		6.25 2.00			SW SW	PST	2.5	1	
29	"A1" 162+45		X	R1-2	YIELD	36 X 36	X		9.00			SW	PST	2.5	1	
30	"A1" 162+73		X	R5-10b	NO PEDESTRIANS OR BICYCLES	30 X 18	X		3.75			NW	PST	2.5	1	
31	"A1" 163+23		X	R2-1	SPEED LIMIT 45	30 X 36	X		7.50			W	PST	2.5	1	
32	"A1" 166+56	X		R8-4	EMERGENCY PARKING ONLY	30 X 24	X		5.00			E	PST	2.5	1	
33	"A1" 167+56	X		D1-101	(UP ARROW) AIRPORT UNIV OF ALASKA CITY CENTER (RIGHT ARROW)	108 X 54		X	40.50			SE	TS	3	2	
34	"A1" 168+45	X		R5-10b	NO PEDESTRIANS OR BICYCLES	30 X 18	X		3.75			E				INSTALL ON FENCE POST. SEE NOTE 20.
35	"A1" 168+58		X	R5-10b	NO PEDESTRIANS OR BICYCLES	30 X 18	X		3.75			E	PST	2.5	1	
36	"A1" 168+59		X	W1-7 OM4-1	TWO DIRECTION LARGE ARROW OBJECT MARKER, TYPE 4	48 X 24 18 X 18	X		8.00 2.25			S S	PST	2.5	1	
37	"A1" 168+68	X		R4-7 OM1-1	KEEP RIGHT OBJECT MARKER, TYPE 1	24 X 30 18 X 18			5.00 2.25			E E	PST	2.5	1	
38	"A1" 169+71	X		OM2-1V	OBJECT MARKER, TYPE 2	6 X 12			0.50			W	PST	2	1	
39	"A1" 169+86	X		W1-7 OM4-1	TWO DIRECTION LARGE ARROW OBJECT MARKER, TYPE 4	48 X 24 18 X 18	X		8.00 2.25			E E	PST	2.5	1	
40	"A1" 169+91	X		R5-10b	NO PEDESTRIANS OR BICYCLES	30 X 18	X		3.75			W	PST	2.5	1	
41	"A1" 170+45		X	R8-4	EMERGENCY PARKING ONLY	30 X 24	X		5.00			W	PST	2.5	1	
42	"A1" 171+05		X	R2-1	SPEED LIMIT 45	30 X 36	X		7.50			W	PST	2.5	1	
43	"C1" 235+97	X		R2-1	SPEED LIMIT 30	24 X 30			5.00			N				INSTALL ON LIGHT POLE
44	"C1" 236+88		X	R3-108L/S/S/R	ADVANCE INTERSECTION LANE CONTROL	60 X 30	X		12.50			S	PST	2.5	1	
45	"C1" 241+61	X		R3-108L/S/R	ADVANCE INTERSECTION LANE CONTROL	48 X 30	X		10.00			N	PST	2.5	1	
46	"G1" 12+80		X	R7-200	2 HR PARKING 9:00 AM TO 6:00 PM/NO PARKING ANYTIME	24 X 18			3.00			NE	PST	2.5	1	
47	"G1" 14+07		X	R7-200	NO PARKING ANYTIME/ 2 HR PARKING 9:00 AM TO 6:00 PM	24 X 18			3.00			NE	PST	2.5	1	
48	"G1" 14+67		X	R7-200	2 HR PARKING 9:00 AM TO 6:00 PM/NO PARKING ANYTIME	24 X 18			3.00			NE	PST	2.5	1	

SIGNING SUMMARY

2 OF 3

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC

 12/22/2022

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H13	H53

SIGNING SUMMARY

LOC. NO.	STATION	LOCATION		ASDS CODE	LEGEND	SIZE H X V (INCHES)	BRACING/ FRAMING		AREA (SQ.FT.)	MTG. HGT. (FT.)	DIR.	TYPE	POST		REMARKS
		LT.	RT.				BRACED	FRAMED					SIZE (INCHES)	NO.	
49	"G1" 15+18		X	R7-200	NO PARKING ANYTIME/ 2 HR PARKING 9:00 AM TO 6:00 PM	24 x 18			3.00		NE	PST	2.5	1	
50	"G1" 18+39		X	R7-200	2 HR PARKING 9:00 AM TO 6:00 PM/NO PARKING ANYTIME	24 x 18			3.00		NE	PST	2.5	1	
51	"G1" 18+79		X	R7-200	NO PARKING ANYTIME/ 2 HR PARKING 9:00 AM TO 6:00 PM	24 x 18			3.00		NE	PST	2.5	1	
52	"C1" 237+11		X	R7P-101RL	NO PARKING ANYTIME RIGHT/LEFT	12 x 18			1.50		SE	PST	2.5	1	
53	"14TH" 300+19	X		R7P-101RL	NO PARKING ANYTIME RIGHT/LEFT	12 x 18			1.50		SW	PST	2.5	1	
54	"14TH" 300+37		X	R7P-101RL	NO PARKING ANYTIME RIGHT/LEFT	12 x 18			1.50		N	PST	2.5	1	
55	"14TH" 301+21		X	R7P-101RL	NO PARKING ANYTIME RIGHT/LEFT	12 x 18			1.50		N	PST	2.5	1	
56	"14TH" 302+01		X	W11-2	PEDESTRIAN	30 x 30	X		6.25		W	PST	2.5	1	
				W16-7PL	DOWNWARD DIAGONAL ARROW LEFT	24 x 12			2.00		W				
57	"14TH" 302+04	X		W11-2	PEDESTRIAN	30 x 30	X		6.25		E	PST	2.5	1	
				W16-7PL	DOWNWARD DIAGONAL ARROW LEFT	24 x 12			2.00		E				
58	"14TH" 302+24		X	R2-1	SPEED LIMIT 20	24 x 30			5.00		W	PST	2.5	1	
59	"14TH" 302+31		X	R7P-101R	NO PARKING ANYTIME RIGHT	12 x 18			1.50		N				INSTALL ON EXISTING LIGHT POLE
60	"14TH" 302+36	X		R14-1	DEAD END	24 x 30			5.00		E	PST	2.5	1	
61	"14TH" 302+76	X		W1-7	TWO DIRECTION LARGE ARROW	48 x 24	X		8.00		S	PST	2.5	1	
				OM4-1	OBJECT MARKER, TYPE 4	18 x 18			2.25		S				
SUBTOTAL = 465.42															
SIGNAL SIGN SUBTOTAL = 72.00															
PROJECT TOTAL = 537.42															

SIGNING SUMMARY
3 OF 3

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC

 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPF\385_airport_&_cushman_reconstruction\DWGS\C\Sheets\64078_H14_SIGN_SLVG-H14_Thu, Dec/22/22_11:48am
 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H14	H53

SALVAGE SIGN SUMMARY					
ALIGNMENT	STATION	CL REF	ASDS CODE	LEGEND	REMARKS
A1	155+92	3' LT	D3-1	CUSHMAN ST	2 POSTS
			D1-1L	(LEFT ARROW) DOWNTOWN	
A1	156+42	CL	R2-1	SPEED LIMIT 45	ON LIGHT POLE
A1	156+45	46' LT	R2-1	SPEED LIMIT 45	
A1	158+07	51' RT	R2-1	SPEED LIMIT 30	
A1	158+68	57' LT	OM1-1	OBJECT MARKER, TYPE 1	
A1	159+00	57' RT	W1-6L	LARGE ARROW (LEFT)	
			OM1-1	OBJECT MARKER, TYPE 1	
A1	159+29	67' RT	D3-1	14TH AVE	
			D3-1	STACIA ST	
			W1-6R	LARGE ARROW (RIGHT)	
			OM1-1	OBJECT MARKER, TYPE 1	
A1	160+26	46' LT	R8-4	EMERGENCY PARKING ONLY	
A1	160+74	55' LT	R10-100	LEFT TURN ONLY YIELD ON GREEN	SIGNAL POLE NW
			D3-1B	CUSHMAN ST	
A1	160+77	61' LT	R6-1R	ONE WAY	
			R6-1L	ONE WAY	
A1	160+81	49' RT	R9-3A	NO PED CROSSING	ON LIGHT POLE
			R5-6	NO BICYCLE	
A1	160+82	64' LT	R10-3B	PUSH BUTTON EDUCATIONAL	PEDESTRIAN SIGNAL POLE NW
			R10-3B	PUSH BUTTON EDUCATIONAL	
A1	161+13	72' LT	R3-6R	OPTIONAL MOVEMENT LANE CONTROL (AHEAD, RIGHT)	ON SPAN WIRE
A1	161+24	71' LT	R3-7L	MANDATORY MOVEMENT LANE CONTROL (TURN LEFT)	ON SPAN WIRE
A1	161+38	60' RT	R10-12	LEFT TURN MUST YIELD ON GREEN	SIGNAL POLE SW
			R10-3B	PUSH BUTTON EDUCATIONAL	
			R10-3B	PUSH BUTTON EDUCATIONAL	
			D3-1B	AIRPORT WAY	
A1	161+68	66' LT	R10-12	LEFT TURN MUST YIELD ON GREEN	SIGNAL POLE NE
			D3-1B	AIRPORT WAY	
			R3-6R	OPTIONAL MOVEMENT LANE CONTROL (AHEAD, RIGHT)	
			R3-6L	OPTIONAL MOVEMENT LANE CONTROL (AHEAD, LEFT)	
A1	161+77	57' LT	R10-3B	PUSH BUTTON EDUCATIONAL	PEDESTRIAN SIGNAL POLE NE
			R10-3B	PUSH BUTTON EDUCATIONAL	
A1	162+21	59' RT	R10-3B	PUSH BUTTON EDUCATIONAL	PEDESTRIAN SIGNAL POLE SE
			R10-3B	PUSH BUTTON EDUCATIONAL	
A1	162+32	49' RT	D3-1B	CUSHMAN ST	SIGNAL POLE SE
			R6-1R	ONE WAY	
			R6-1L	ONE WAY	
			R10-100	LEFT TURN ONLY YIELD ON GREEN SIGN	
A1	162+34	47' LT	R9-3A	NO PED CROSSING	
			R5-6	NO BICYCLE	
A1	162+59	50' RT	R9-3A	NO PED CROSSING	
			R5-6	NO BICYCLE	
A1	163+86	48' RT	R2-1	SPEED LIMIT 45	ON LIGHT POLE
A1	164+03	46' LT	D1-101 (D1-3-2)	(ARROW AHEAD) AIRPORT, UNIV OF ALASKA / DOWNTOWN (ARROW RIGHT)	2 POSTS
A1	165+45	49' RT	D9-10	TOURIST INFORMATION	ON LIGHT POLE
			D9-301L	DIRECTIONAL ARROW (SYMBOL)	
A1	167+04	49' RT	R2-1	SPEED LIMIT 45	ON LIGHT POLE
A1	167+79	47' LT	R8-4	EMERGENCY PARKING ONLY	
A1	168+39	47' LT	R9-3A	NO PED CROSSING	
			R5-6	NO BICYCLE	

SALVAGE SIGN SUMMARY					
ALIGNMENT	STATION	CL REF	ASDS CODE	LEGEND	REMARKS
A1	168+47	50' RT	R9-3A	NO PED CROSSING	
			R5-6	NO BICYCLE	
A1	168+59	50' RT	W1-7	TWO DIRECTION LARGE ARROW	
			OM4-1	OBJECT MARKER, TYPE 4	
A1	169+71	6' LT	OM2-1V	OBJECT MARKER, TYPE 2	
A1	170+24	49' LT	R9-3A	NO PED CROSSING	ON LIGHT POLE
			R5-6	NO BICYCLE	
A1	170+45	50' RT	R8-4	EMERGENCY PARKING ONLY	
A1	171+05	0' RT	R2-1	SPEED LIMIT 45	ON LIGHT POLE
C1	234+91	30' LT	R2-1	SPEED LIMIT 30	
C1	236+67	31' RT	R10-7	DO NOT BLOCK INTERSECTION	WITH SPECIAL DETAILS 2 SIGNS
			D3-101	14TH AVE	
			D3-101	S CUSHMAN ST	
			R1-1	STOP	
C1	242+21	41' RT	R10-3B	PUSH BUTTON EDUCATIONAL	PEDESTRIAN SIGNAL POLE
14TH	300+25	57' RT	R7P-101R	NO PARKING ANY TIME (RIGHT ARROW)	ON LIGHT POLE
14TH	301+42	45' RT	R7P-101RL	NO PARKING ANY TIME (RIGHT & LEFT ARROW)	ON LIGHT POLE
14TH	302+24	23' RT	R2-1	SPEED LIMIT 20	
14TH	302+35	24' RT	R7P-101RL	NO PARKING ANY TIME (RIGHT & LEFT ARROW)	ON LIGHT POLE
14TH	302+76	18' LT	W1-7	TWO DIRECTION LARGE ARROW	
			OM4-1	OBJECT MARKER, TYPE 4	

SIGNING NOTES

- DELIVER SALVAGED SIGN PANELS, NOT IDENTIFIED FOR REUSE IN THE SIGNING SUMMARY, TO THE DOT&PF FAIRBANKS MAINTENANCE YARD LOCATED AT 2301 PEGER ROAD.
CONTACT DANIEL SCHACHER (907) 451-5276 TO ARRANGE FOR DELIVERY.
- SALVAGED SIGNS WILL BE PAID PER EACH SIGN PANEL DELIVERED IN ACCEPTABLE CONDITION.

SIGN SALVAGE SUMMARY

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
REVIEW
PS&E

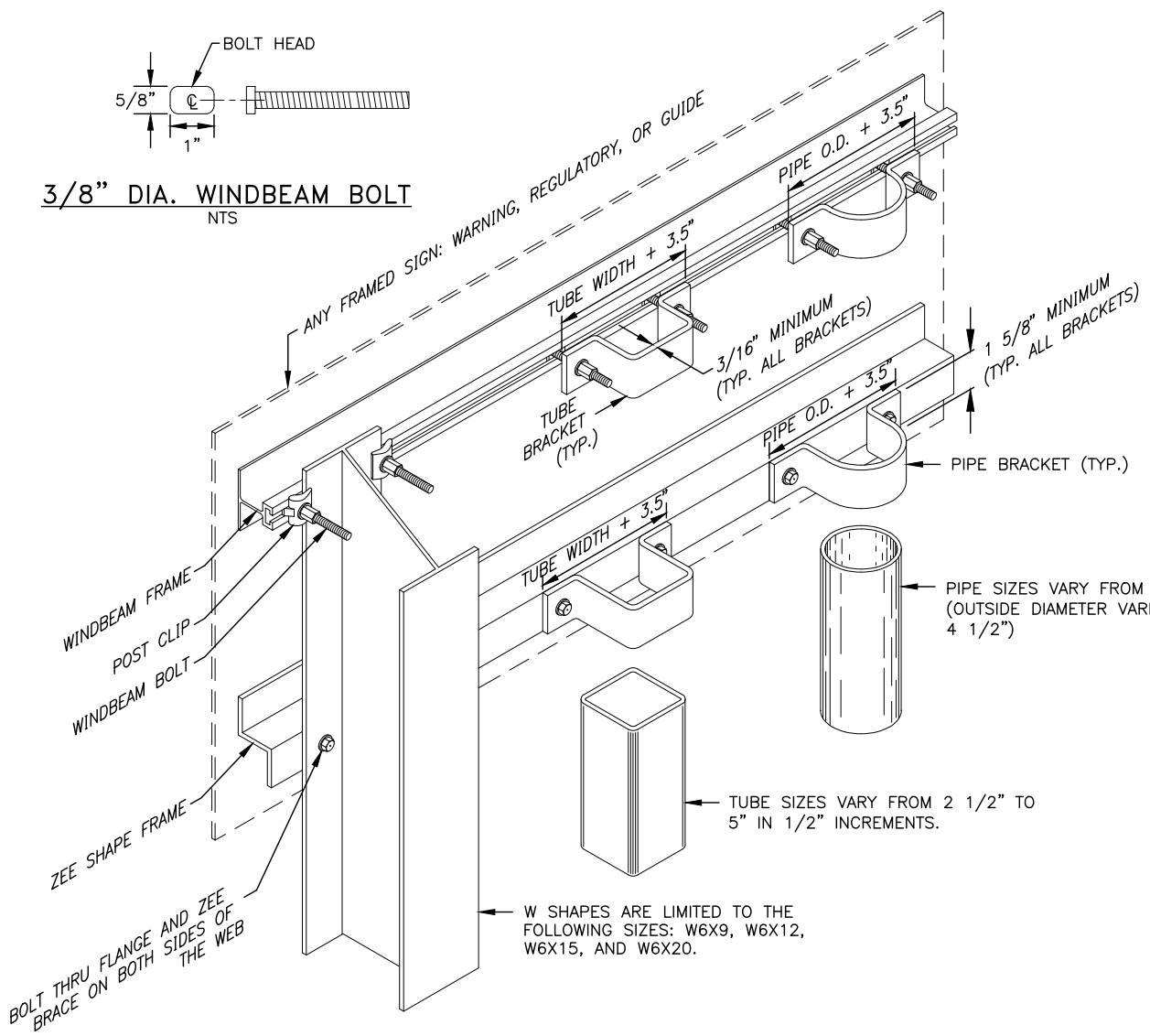
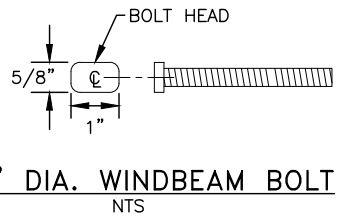
12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOT\F\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_H15-H17_SIGN_DETAILS-H15_Thu_Dec/22/22 11:48am KE#: 00385 (Bill Paddock)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H15	H53

FASTENER SPECIFICATION TABLE		
FASTENERS	STEEL	STAINLESS STEEL
BOLTS	ASTM A 307	ASTM F 593
NUTS	ASTM A 563	ASTM F 594
WASHERS	ASTM F 844	ASTM A 480

THESE SPECIFICATIONS APPLY TO ALL SIGN FASTENER HARDWARE ON THE PROJECT.

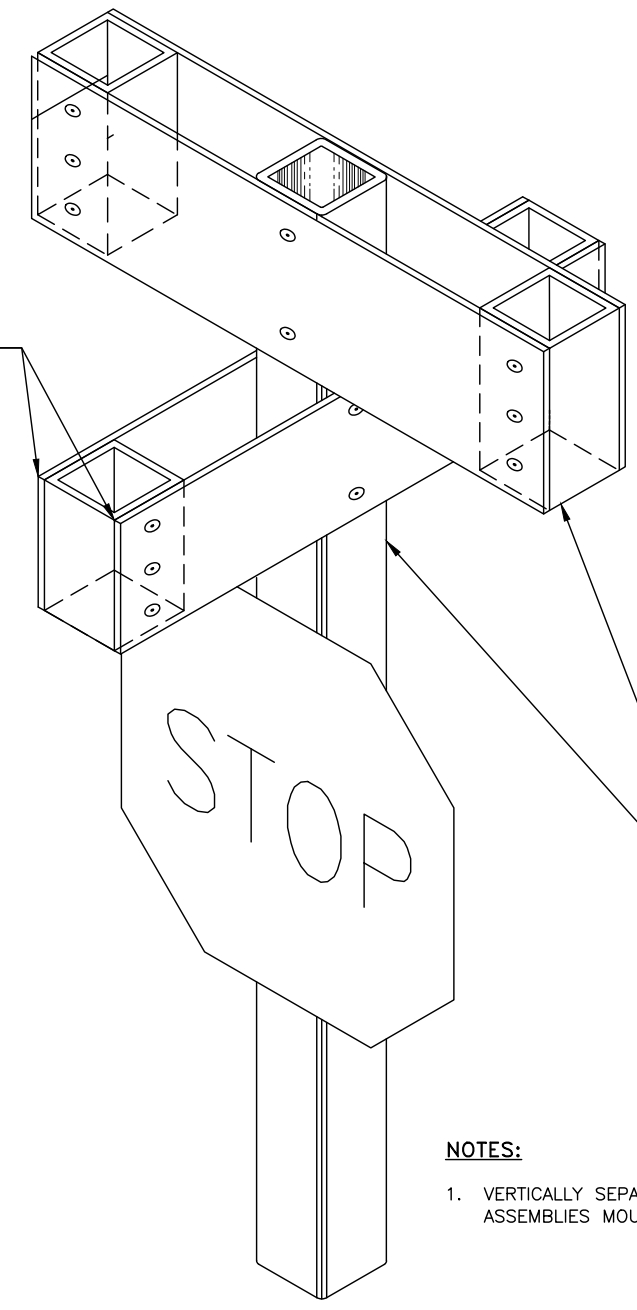


NOTES:

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

FRAMED SIGN ATTACHMENT BRACKETS
NTS

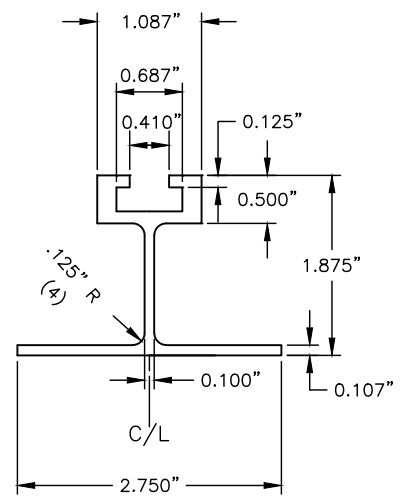
INSTALL TWO STREET NAME BACK TO BACK ON THE POST. CROSS STREET NAME SIGN IN LOWER POSITION



STREET NAME SIGN DETAIL
NTS

NOTES:

- VERTICALLY SEPARATE R1-1 (STOP) SIGN AND ALL OTHER SIGN ASSEMBLIES MOUNTED ON THE SAME POST BY 2-1/2 INCHES.



NOTES:

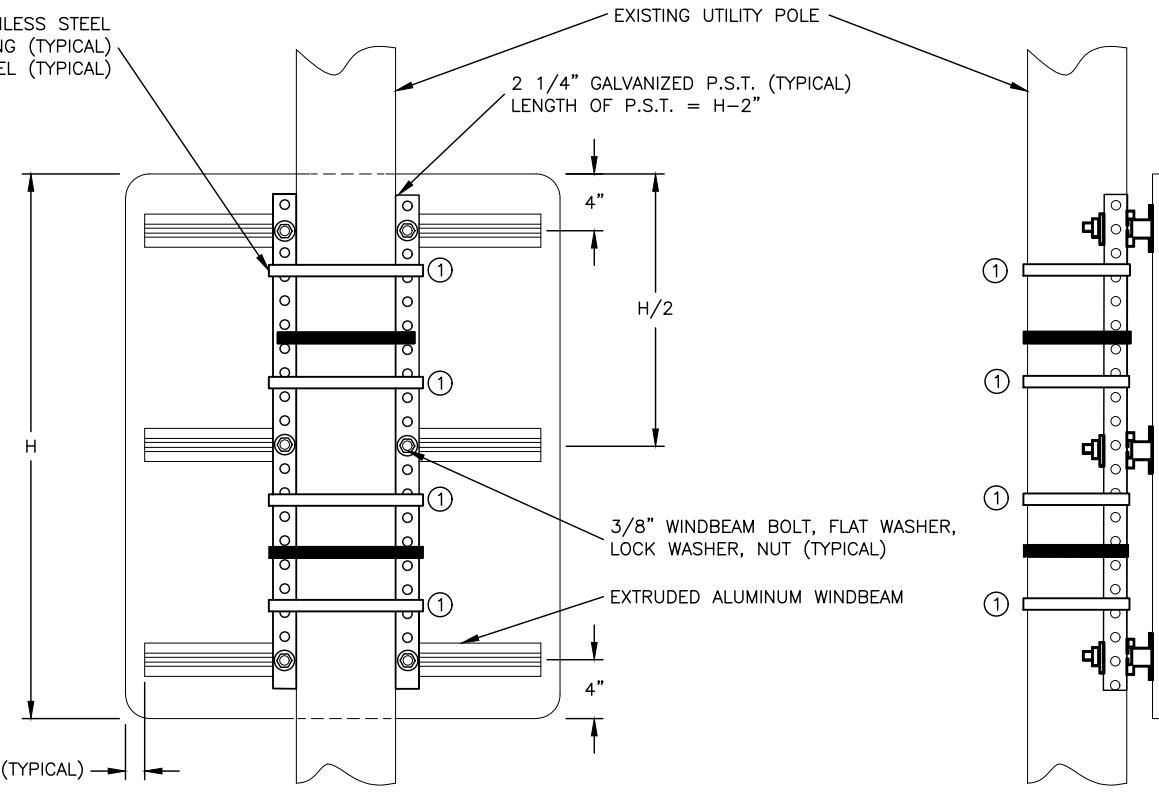
- ALUMINUM ALLOY 6061-T6 SHALL BE USED FOR EXTRUDED WINDBEAM AND RIVETS.
- ATTACH SIGNS TO WINDBEAM WITH 3/6" RIVETS AT 4" STAGGERED SPACING.

EXTRUDED ALUMINUM WINDBEAM
NTS

END BRACE (TYP)
SEE STANDARD DRAWING S-01.01
2-1/2" PERFORATED TUBE

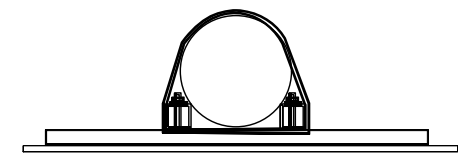
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H16	H53

BANDING: 3/4" X 0.030" STAINLESS STEEL
DOUBLE BANDING (TYPICAL)
BUCKLES: 3/4" STAINLESS STEEL (TYPICAL)



- IF H > 48"
3 WINDBEAMS REQUIRED
- IF 15" < H ≤ 48"
2 WINDBEAMS REQUIRED
- IF H ≤ 15"
1 WINDBEAM REQUIRED
- USE 2 BANDS H < 48"
USE 4 BANDS H ≥ 48"
- ① BAND LOCATIONS:
SPACE BANDS H/5
WHEN 4 ARE REQUIRED

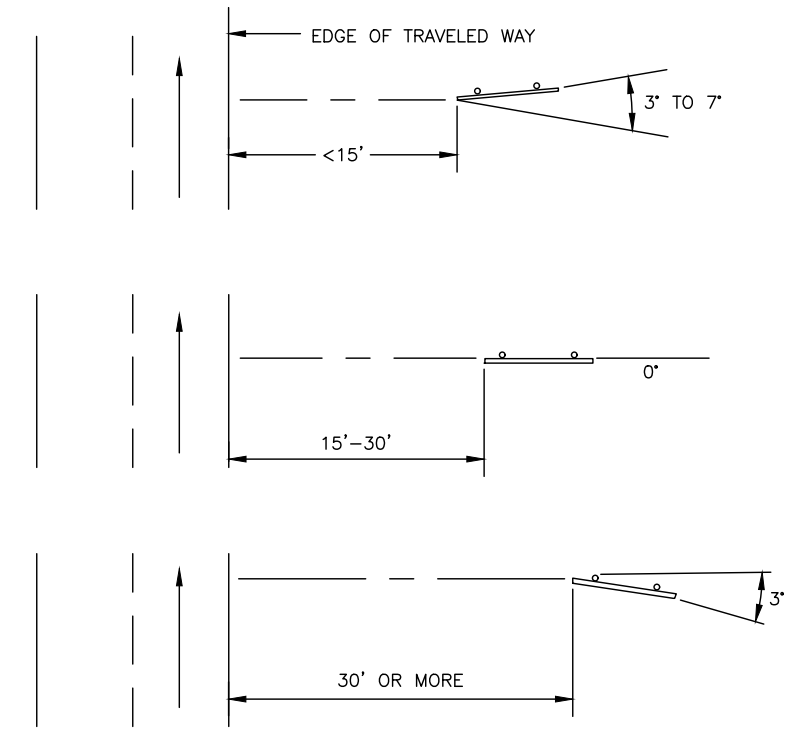
NOTE:
ATTACH SIGN TO WINDBEAMS WITH 3/16"
RIVETS AT 4" STAGGERED SPACING.



LIGHT/SIGNAL POLE SIGN FRAMING & MOUNTING DETAILS
NTS

INSTALLATION NOTES

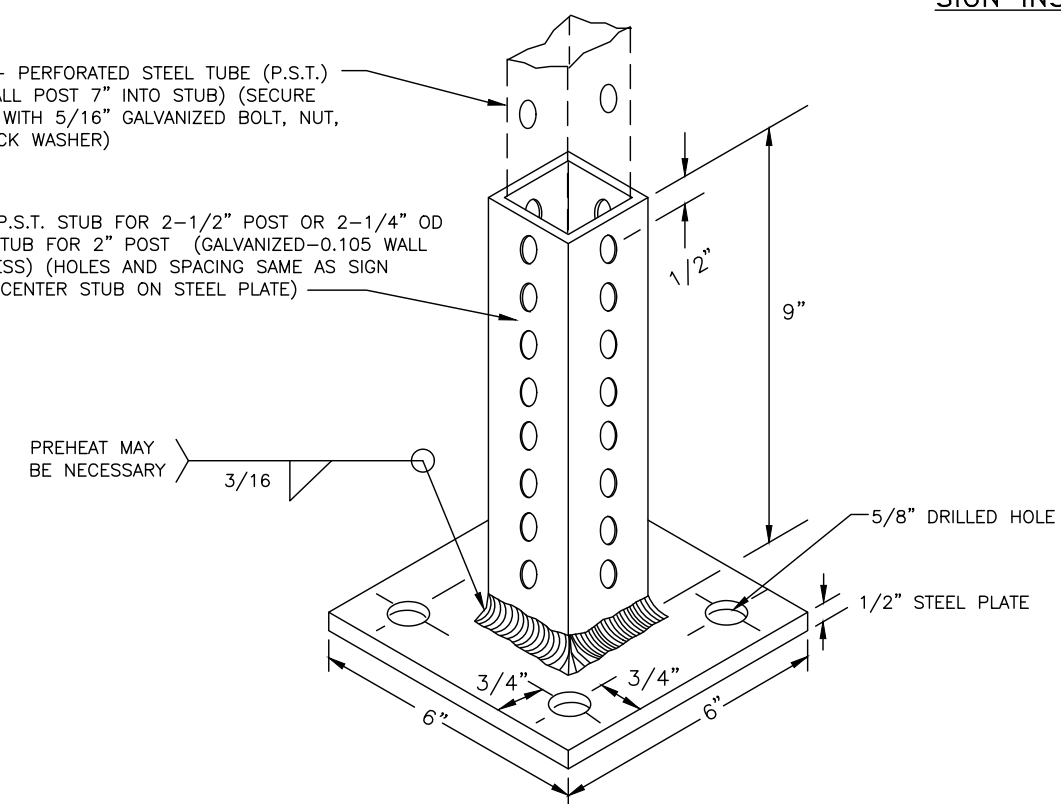
1. DRILL FOUR (4) 1/2" HOLES IN SIDEWALK OR CONCRETE USING PLATE AS TEMPLATE. (DEPTH AS REQUIRED).
2. INSTALL STUB AND PLATE WITH FOUR (4) HILTI EXPANSION ANCHORS CAT. NO. HDI 3/8" OR APPROVED EQUAL. USE FOUR (4) 3/8" GALVANIZED BOLTS AND FLAT WASHERS.
3. DO NOT SHIM BASE, PLUMB STUB BY HEATING AT PLATE.
4. PAINT STUB AND BASE WITH ZINC RICH PAINT PRIOR TO INSTALLATION.



SIGN INSTALLATION ANGLES

POST- PERFORATED STEEL TUBE (P.S.T.)
(INSTALL POST 7" INTO STUB) (SECURE
POST WITH 5/16" GALVANIZED BOLT, NUT,
& LOCK WASHER)

3" OD P.S.T. STUB FOR 2-1/2" POST OR 2-1/4" OD
P.S.T. STUB FOR 2" POST (GALVANIZED-0.105 WALL
THICKNESS) (HOLES AND SPACING SAME AS SIGN
POST) (CENTER STUB ON STEEL PLATE)



SIDEWALK MOUNTING STUB FOR SIGN POSTS
NTS

SIGN DETAILS
2 OF 2

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
REVIEW
PS&E

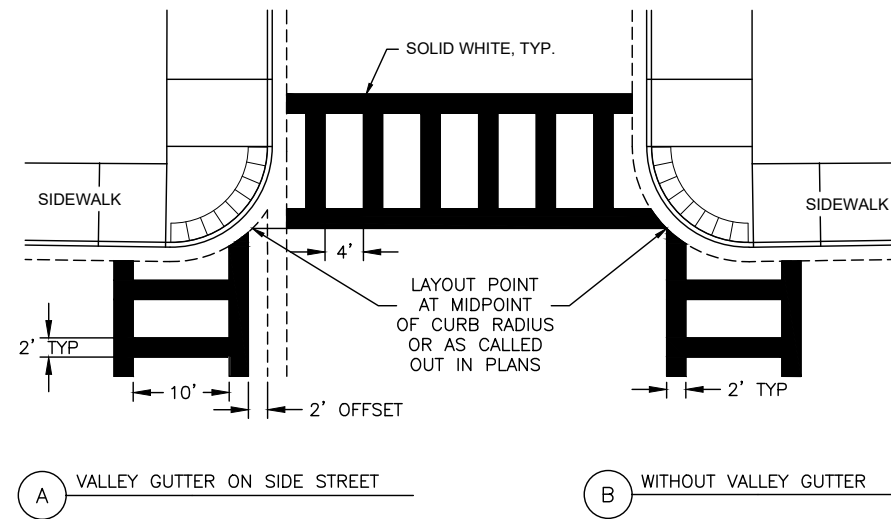
12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H17	H53



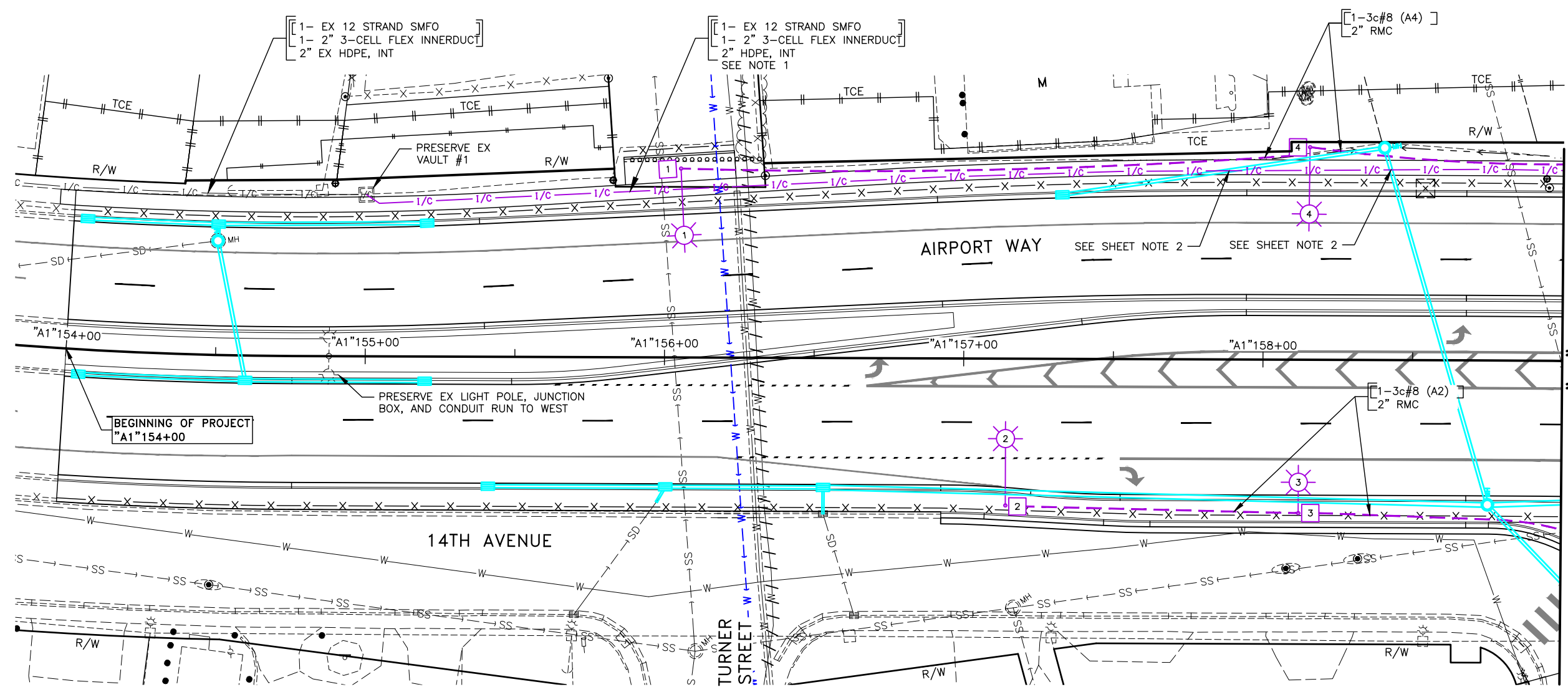
CROSSWALK STRIPING MARKING DETAIL
NTS

STRIPING
DETAILS

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOT\PE\385_airport & cushman reconstruction\DWG\c\Sheets\64078_H18-H23_ILLUM-H18 Thu, Dec/22/22 11:50am
 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H18	H53



ILLUMINATION AND INTERCONNECT GENERAL NOTES:

- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- EXCEPT FOR CONDUITS WITH ONLY FIBER OPTIC CABLE AND TRACER WIRE WITH REVERSIBLE GROUNDS, INSTALL 1-1c#8 BARE COPPER GROUND CONDUCTOR IN ALL CONDUITS UNLESS ANOTHER GROUND CONDUCTOR IS SPECIFIED.

SHEET NOTES:

- CUT THE EXISTING AIRPORT WAY FIBER OPTIC CABLE CONNECTED TO THE EXISTING TRAFFIC CONTROLLER IN THE NE QUADRANT OF AIRPORT WAY AND CUSHMAN STREET INTERSECTION AND PULL REMAINING PORTIONS BACK TO EXISTING VAULTS #1 AND #5. AFTER INSTALLATION OF NEW CONDUIT REPELL CABLES AS SHOWN TO VAULT #3 AND FUSION SPLICE CABLES.
- ROUTE 1/C UNDER PROPOSED STORM DRAIN PER CONDUIT CULVERT CROSSING DETAIL SHEET H51.

ILLUMINATION AND
 INTERCONNECT 1 OF 6

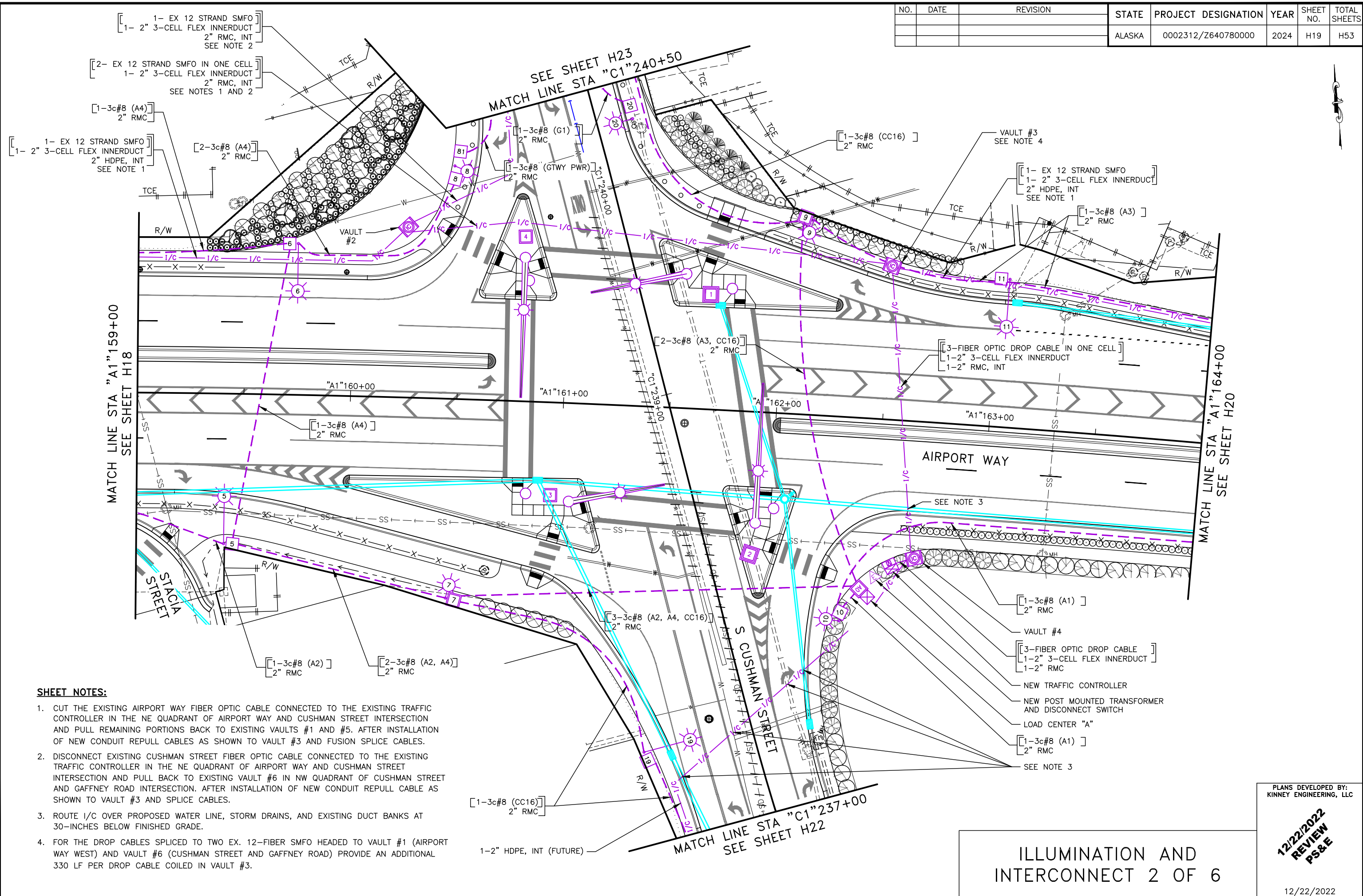
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
 REVIEW
 PS&E

12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H19	H53



SHEET NOTES:

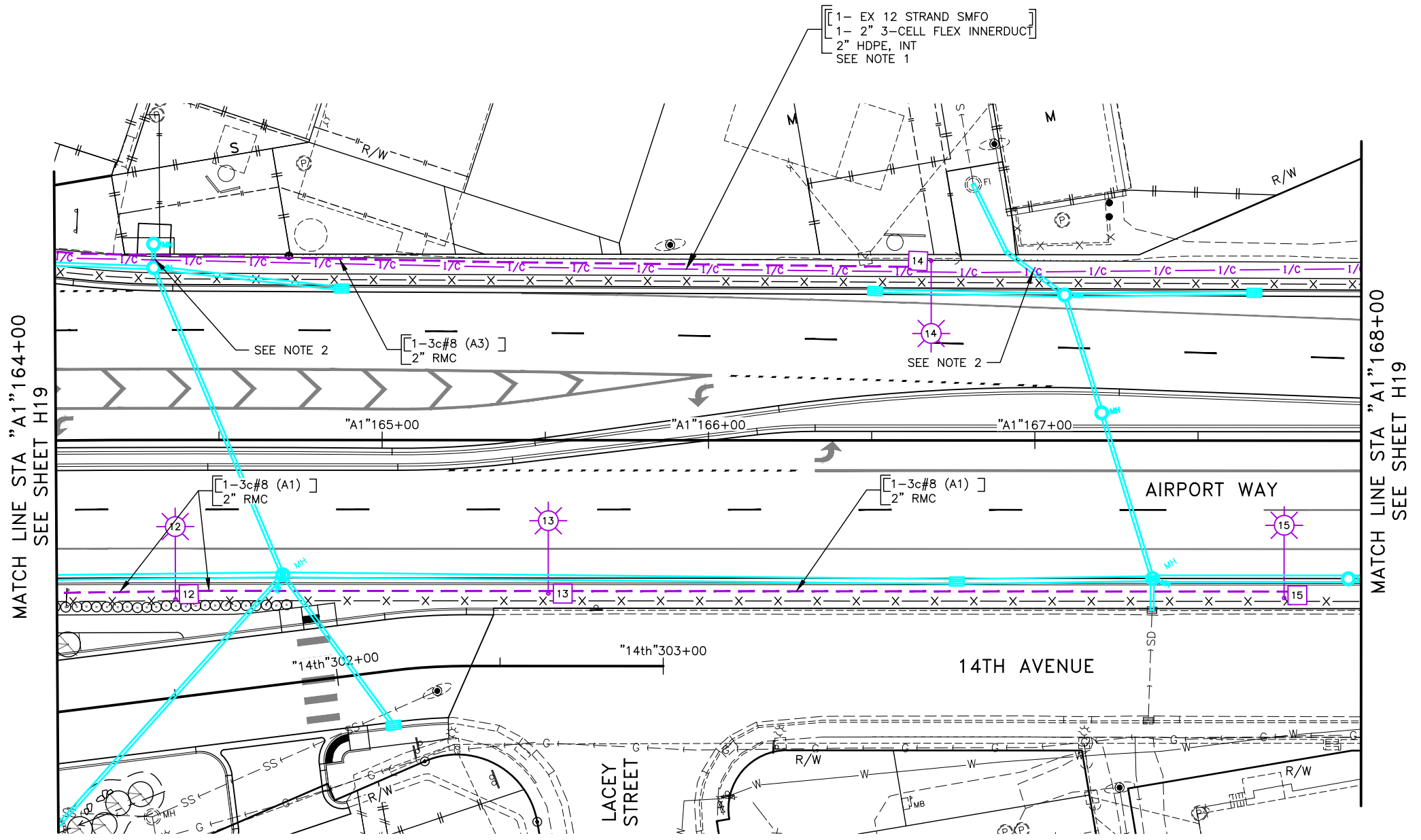
- CUT THE EXISTING AIRPORT WAY FIBER OPTIC CABLE CONNECTED TO THE EXISTING TRAFFIC CONTROLLER IN THE NE QUADRANT OF AIRPORT WAY AND CUSHMAN STREET INTERSECTION AND PULL REMAINING PORTIONS BACK TO EXISTING VAULTS #1 AND #5. AFTER INSTALLATION OF NEW CONDUIT REPULL CABLES AS SHOWN TO VAULT #3 AND FUSION SPLICE CABLES.
- DISCONNECT EXISTING CUSHMAN STREET FIBER OPTIC CABLE CONNECTED TO THE EXISTING TRAFFIC CONTROLLER IN THE NE QUADRANT OF AIRPORT WAY AND CUSHMAN STREET INTERSECTION AND PULL BACK TO EXISTING VAULT #6 IN NW QUADRANT OF CUSHMAN STREET AND GAFFNEY ROAD INTERSECTION. AFTER INSTALLATION OF NEW CONDUIT REPULL CABLE AS SHOWN TO VAULT #3 AND SPLICE CABLES.
- ROUTE 1/C OVER PROPOSED WATER LINE, STORM DRAINS, AND EXISTING DUCT BANKS AT 30-INCHES BELOW FINISHED GRADE.
- FOR THE DROP CABLES SPLICED TO TWO EX. 12-FIBER SMFO HEADED TO VAULT #1 (AIRPORT WAY WEST) AND VAULT #6 (CUSHMAN STREET AND GAFFNEY ROAD) PROVIDE AN ADDITIONAL 330 LF PER DROP CABLE COILED IN VAULT #3.

ILLUMINATION AND INTERCONNECT 2 OF 6

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_H18-H23_ILLUM-H20_Thu, Dec/22/22 11:50am
 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H20	H53



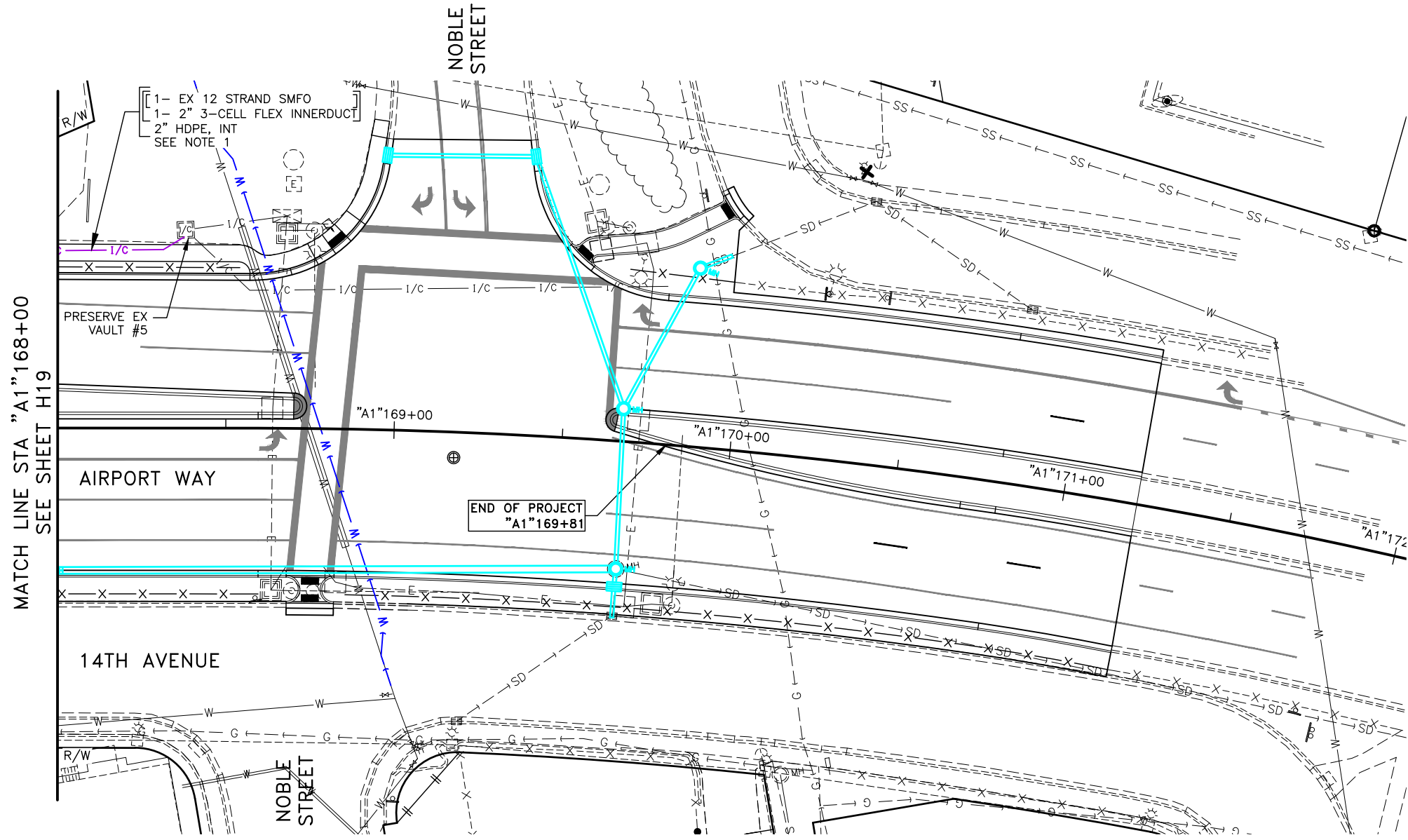
SHEET NOTES:

1. CUT THE EXISTING AIRPORT WAY FIBER OPTIC CABLE CONNECTED TO THE EXISTING TRAFFIC CONTROLLER IN THE NE QUADRANT OF AIRPORT WAY AND CUSHMAN STREET INTERSECTION AND PULL REMAINING PORTIONS BACK TO EXISTING VAULTS #1 AND #5. AFTER INSTALLATION OF NEW CONDUIT REPULL CABLES AS SHOWN TO VAULT #3 AND SPLICE CABLES.
2. ROUTE 1/C UNDER PROPOSED STORM DRAIN PER CONDUIT CULVERT CROSSING DETAIL SHEET H51.

ILLUMINATION AND
 INTERCONNECT 3 OF 6

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
 12/22/2022

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H21	H53



MATCH LINE STA "A1"168+00
SEE SHEET H19

SHEET NOTES:

1. CUT THE EXISTING AIRPORT WAY FIBER OPTIC CABLE CONNECTED TO THE EXISTING TRAFFIC CONTROLLER IN THE NE QUADRANT OF AIRPORT WAY AND CUSHMAN STREET INTERSECTION AND PULL REMAINING PORTIONS BACK TO EXISTING VAULTS #1 AND #5. AFTER INSTALLATION OF NEW CONDUIT REPULL CABLES AS SHOWN TO VAULT #3 AND FUSION SPLICE CABLES.

ILLUMINATION AND
INTERCONNECT 4 OF 6

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

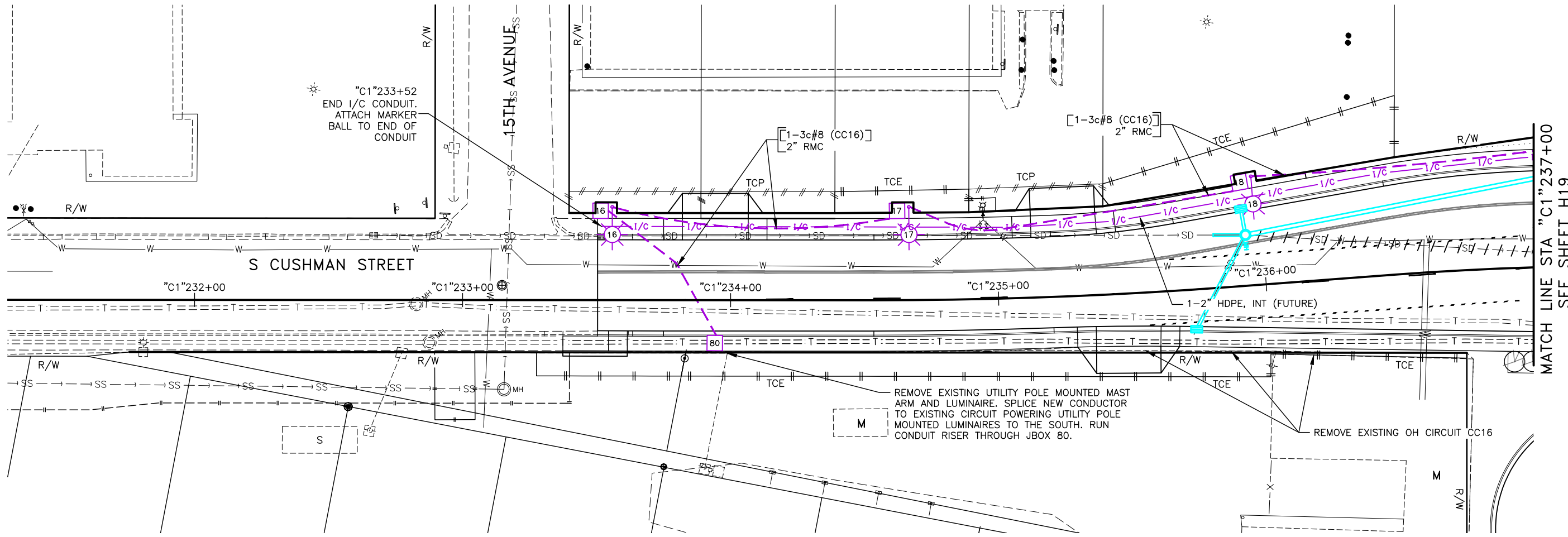
12/22/2022
REVIEW
PS&E

12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_H18-H23_ILLUM-H21_Thu_Dec/22/22_11:50am (Bill Paddock) KE#: 00385

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H22	H53



REMOVE EXISTING UTILITY POLE MOUNTED MAST ARM AND LUMINAIRE. SPLICE NEW CONDUCTOR TO EXISTING CIRCUIT POWERING UTILITY POLE MOUNTED LUMINAIRES TO THE SOUTH. RUN CONDUIT RISER THROUGH JBOX 80.

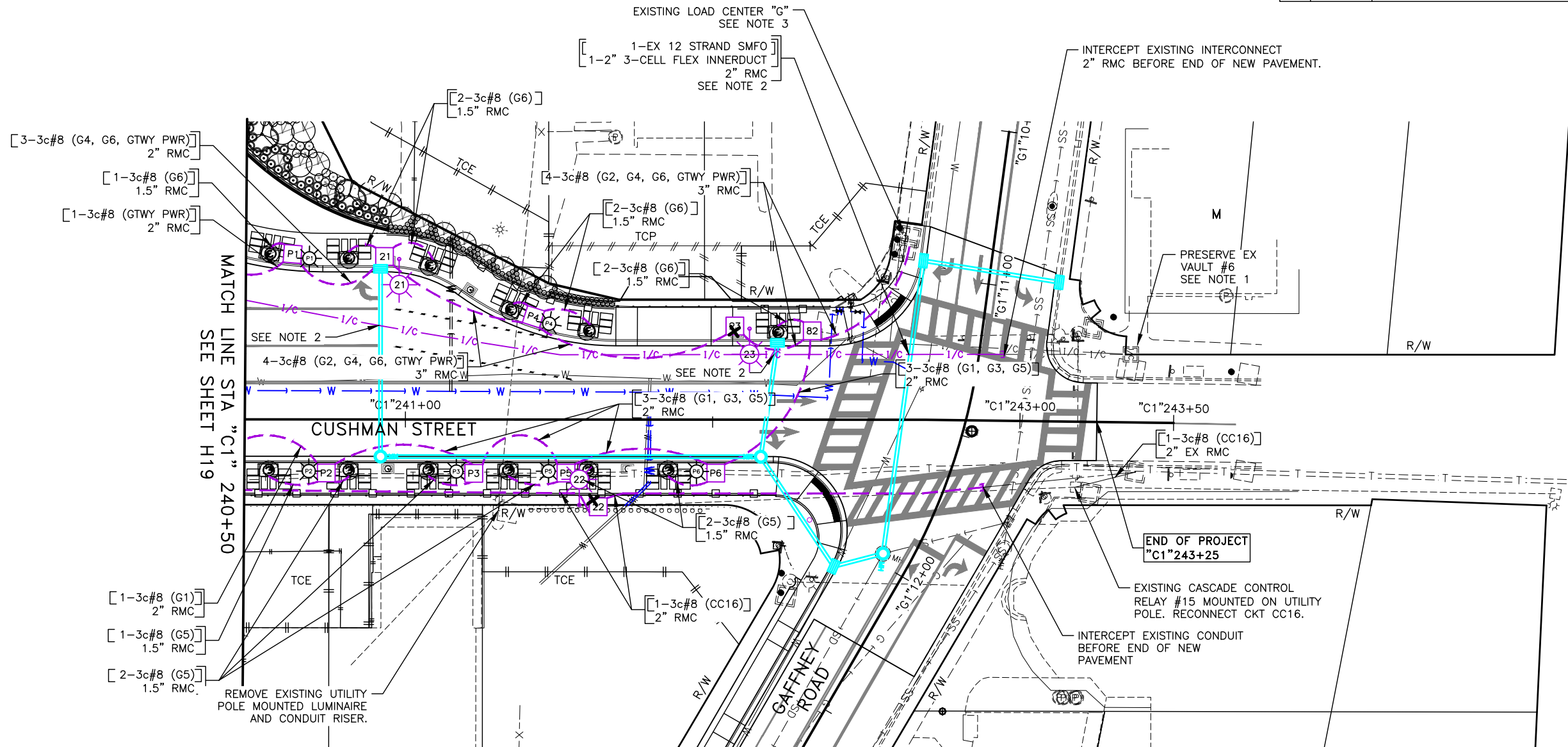
REMOVE EXISTING OH CIRCUIT CC16

MATCH LINE STA "C1"237+00
 SEE SHEET H19

ILLUMINATION AND
 INTERCONNECT 5 OF 6

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
 12/22/2022

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H23	H53



SHEET NOTES:

1. DISCONNECT EXISTING CUSHMAN STREET FIBER OPTIC CABLE CONNECTED TO THE EXISTING TRAFFIC CONTROLLER IN THE NE QUADRANT OF AIRPORT WAY AND CUSHMAN STREET INTERSECTION AND PULL BACK TO EXISTING VAULT #6 IN NW QUADRANT OF CUSHMAN STREET AND GAFFNEY ROAD INTERSECTION. AFTER INSTALLATION OF NEW CONDUIT REPULL CABLE AS SHOWN TO VAULT #3 AND SPLICE CABLES.
2. ROUTE I/C UNDER PROPOSED STORM DRAIN PER CONDUIT CULVERT CROSSING DETAIL SHEET H51.
3. ADJUST EXISTING LOAD CENTER "G" JUNCTION BOX TO FINISHED GRADE AS NEEDED.

ILLUMINATION AND INTERCONNECT 6 OF 6

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWG\c\Sheets\64078_H18-H23_ILLUM-H23_Thu, Dec/22/22 11:51am
 (Bill Paddock) KE#: 00385

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPF\385_airport_&_cushman_reconstruction\DWGS\c\Sheets\64078_H24-H27_ILLUM_SUMM-H24 Thu, Dec/22/22 11:51am
 (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H24	H53


LUMINAIRE SCHEDULE										
TYPE	MANUFACTURER & MODEL NO.	LIGHT SOURCE	IES TYPE OPTICS	INITIAL LUMENS	COLOR TEMP (CCT)	DRIVER CURRENT	VOLTAGE WATTS	POWER FACTOR	MOUNTING	REMARKS
A	CREE # RSWX-A-HT 3ME-32L-40K7-UH-GY-N	LED	TYPE III MED.	31,100	4000K	0.51 AMPS	480V 240W	>0.9	HORIZ. TENON	
B	CREE # RSWX-A-HT 3ME-24L-40K7-UH-GY-N	LED	TYPE III MED.	23,800	4000K	0.38 AMPS	480V 200W	>0.9	HORIZ. TENON	
C	CREE # RSWC-A-HT 2LG-32L-40K7-h-GY-N	LED	TYPE II LONG	31,100	4000K	0.51 AMPS	480V 732W	>0.9	HORIZ. TENON	
D	STERNBERG # 1521LED-R-12L-27-T3-MDL018- FG-EZ-CM	LED	TYPE III	5,695	2700K	0.18 AMPS	240V 60W	>0.9	VERT. EZ HANG	CUSTOM FINISH RAL 8016
E	STERNBERG # PT-12-RW404-56L-27-TS- MDL05-CM	LED	SYMMETRICAL	4,840	2700K	0.525 AMPS	240V 99W	N/A	POST TOP	CUSTOM FINISH RAL 8016
F	STERNBERG # 1531LED-R-32L-27-T4-MDL018- FG-EZ-CM	LED	TYPE IV	15,400	2700K	0.18 AMPS	240V 154W	>0.9	VERT. EZ HANG	CUSTOM FINISH RAL 8016

STREET LIGHTING DESIGN CRITERIA	
ROADWAY CHARACTERISTICS	
ROADWAY LIGHTING STANDARD:	IESNA RP-8-2014
CALCULATION ZONE:	ENTIRE ROADWAY
STREET CLASSIFICATION:	MAJOR
PEDESTRIAN AREA CLASSIFICATION:	MEDIUM (UNLESS NOTED OTHERWISE)
PAVEMENT CLASSIFICATION:	R3
TRAFFIC FLOW:	2-WAY
LANE WIDTH:	12 FT.
NO. OF LANES, LEFT / RIGHT:	2 BOTH DIRECTIONS
MEDIAN:	VARIES
AIRPORT WAY AND CUSHMAN STREET LUMINANCE CRITERIA	
AVERAGE MAINTAINED (Lavg):	0.9 CD/SQ M
Lavg/Lmin RATIO (MAXIMUM):	<= 3.0
Lmax/Lmin RATIO (MAXIMUM):	<= 5.0
Lvmax/Lavg VEILING LUMINANCE RATIO (MAXIMUM):	<= 0.3
INTERSECTION ILLUMINANCE CRITERIA	
AIRPORT WAY/CUSHMAN STREET, ILLUMINANCE:	Eavg >= 2.6 FC Eavg/Emin <= 3.0
PEDESTRIAN CROSSWALK ILLUMINANCE CRITERIA	
CONFLICT AREA LIMITS:	CROSSWALKS / CURB RAMPS
CROSSWALKS AT SIGNALIZED INTERSECTIONS, MEDIUM PEDESTRIAN CONFLICT:	Emin,v >= 0.2 FC METERED AT 5 FT HEIGHT AND 1.64 FT SPACING IN DIRECTION OF APPROACHING TRAFFIC, CENTERED IN CROSSWALK.
CROSSWALKS AT NON-SIGNALIZED, UNCONTROLLED TRAFFIC FREE-RIGHT SLIP LANES, HIGH PEDESTRIAN CONFLICT:	Eavg >= 2.6 FC Eavg/Emin <= 4.0 FC Emin,v >= 1.0 FC METERED AT 5 FT HEIGHT AND 1.64 FT SPACING IN DIRECTION OF APPROACHING TRAFFIC, CENTERED IN CROSSWALK.
LUMINAIRE DEPRECIATION	
LED - TOTAL LIGHT LOSS FACTOR (LLF):	0.85

GENERAL ILLUMINATION NOTES:

- LUMINAIRES SHALL BE SUITABLE FOR 240V SUPPLY, AND COMPLY WITH SPECIAL PROVISIONS OF SECTION 740-2.18. LUMINAIRES SHALL PROVIDE THE AVERAGE INITIAL LUMINANCE, ILLUMINANCE, AND UNIFORMITIES SPECIFIED IN THE PERFORMANCE CRITERIA SCHEDULES. PROVIDE LIGHTING CALCULATIONS USING THE MANUFACTURER'S CURRENT PUBLISHED PHOTOMETRIC DATA IN ACCORDANCE WITH SPECIAL PROVISIONS OF SECTION 740-2.18 FOR LED ROADWAY LUMINAIRES.
- PRIOR TO INSTALLATION, CONTRACTOR SHALL REQUEST LOCATES FOR EXISTING UNDERGROUND UTILITIES, AND RECEIVE WRITTEN CONFIRMATION THAT ALL FACILITIES HAVE BEEN IDENTIFIED.
- POLE LOCATIONS SHALL BE STAKED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ADJUST POLE LOCATIONS AS DIRECTED BY THE ENGINEER. MINOR RELOCATIONS OF FOUNDATIONS, CONDUIT, AND JUNCTION BOXES SHALL BE CONSIDERED SUBSIDIARY TO THE SECTION 660.0003.0000 PAY ITEM.
- JUNCTION BOXES AND CONDUIT RUNS SHOWN IN PLANS FOR THE LIGHTING SYSTEM ARE CONSIDERED SUBSIDIARY TO THE 660(3) HIGHWAY LIGHTING SYSTEM PAY ITEM.
- DESIGN MOUNTING HEIGHT AS SCHEDULED SHALL BE MEASURED FROM THE FINISHED ROAD SURFACE TO THE LUMINAIRE. ALL COBRAHEAD LUMINAIRES SHALL BE CUTOFF TYPE MOUNTED HORIZONTAL WITH ZERO TILT UNLESS OTHERWISE NOTED.
- PROVIDE LIGHTING STANDARDS AND CONCRETE POLE FOUNDATIONS IN ACCORDANCE WITH PLAN DETAILS, NOTES, AND SPECIFICATIONS.
- ORIENT POLE WITH LUMINAIRE MAST ARMS AS INDICATED ON THE PLANS, TYPICALLY PERPENDICULAR TO THE ROADWAY CENTERLINE, UNLESS A SPECIFIC ORIENTATION IS OTHERWISE NOTED.
- WITH EXCEPTION TO COF LIGHT POLES, ALL LUMINAIRES SHALL BE FURNISHED WITH A 0-10V DIMMING BALLAST, 7-PIN NEMA TWIST-LOCK RECEPTACLE AND WIRELESS CONTROL NODE. UNLESS OTHERWISE NOTED, LUMINAIRES SHALL BE SET WITH NO DIMMING.
- COF LIGHT POLES SHALL BE FIXED BASED AND, UNLESS OTHERWISE NOTED, ALL OTHER LIGHT POLES SHALL BE MOUNTED USING FRANGIBLE COUPLINGS.
- WIRING BETWEEN AN ELECTROLIER AND THE JUNCTION BOX SERVING IT SHALL CONSIST OF 1-3c#8 CABLE IN AND OUT (2-3c#8) AND 1-1c#8 BARE COPPER GROUND IN A 2" RMC.

ILLUMINATION SUMMARY
 1 OF 4

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC

 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPF\385_Airport & Cushman Reconstruction\DWGS\C\Sheets\64078_H24-H27_ILLUM_SUMM-H25_Thu_Dec/22/22 01:32pm (Bill Paddock) KE#: 00385

NOTE:
SEE SHEET H24 FOR ELECTROLIER NOTES.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H25	H53

COBRAHEAD ELECTROLIER SUMMARY

LUMINAIRE NO.	ALIGN.	STATION	OFFSET	POLE TYPE	BASE TYPE	LUMINAIRE				CIRCUIT	MOUNT HEIGHT (FT)	MAST ARM LENGTH (FT)	REMARKS
						TYPE	VOLTAGE	WATTAGE	DIMMING (NOTE 8)				
1	"A1"	156+05.3	63.1 LT	STP	CIDH	B	480	200		A4	40	22	
2	"A1"	157+14.1	49.0 RT	STP	CIDH	B	480	200		A2	40	22	
3	"A1"	158+11.9	51.2 RT	STP	CIDH	B	480	200		A2	40	10	
4	"A1"	158+15.5	71.0 LT	STP	CIDH	B	480	200		A4	40	22	
5	"A1"	159+41.5	70.4 RT	STP	CIDH	B	480	200		A2	40	22	
6	"A1"	159+74.1	71.0 LT	STP	CIDH	B	480	200		A4	40	22	
7	"A1"	160+47.4	93.5 RT	STP	CIDH	B	480	200		A2	40	6	
8	"A1"	160+45.6	109.3 LT	STP	CIDH	B	480	200		A4	40	6	
9	"A1"	162+12.4	91.3 LT	STP	CIDH	B	480	200		A3	40	6	
10	"A1"	162+35.2	95.7 RT	STP	CIDH	B	480	300		A1	40	6	
11	"A1"	163+04.9	69.5 LT	STP	CIDH	C	480	732		A3	40	22	
12	"A1"	164+36.6	48.8 RT	STP	CIDH	A	480	240		A1	40	22	
13	"A1"	165+50.9	47.0 RT	STP	CIDH	A	480	240		A1	40	22	
14	"A1"	166+68.2	55.1 LT	STP	CIDH	A	480	245		A3	40	22	
15	"A1"	167+76.4	48.2 RT	STP	CIDH	C	480	732		A1	40	22	
16	"C1"	233+55.8	34.8 LT	STP	CIDH	B	240	200		CC16	40	10	
17	"C1"	234+66.7	34.7 LT	STP	CIDH	B	240	200		CC16	40	10	
18	"C1"	235+97.3	40.6 LT	STP	CIDH	B	240	200		CC16	40	10	
19	"C1"	237+40.6	51.8 LT	STP	CIDH	B	240	200		CC16	40	22	

ABBREVIATIONS:
 EX EXISTING
 CIDH CAST IN DRILLED HOLE
 STP STEEL TAPERED POLE
 PLPF PEDESTRIAN LIGHT POLE FOUNDATION

ILLUMINATION SUMMARY
 2 OF 4

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
 REVIEW
 PS&E

12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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(Bill Paddock) KE#: 00385

NOTE:
SEE SHEET H24 FOR ELECTROLIER NOTES.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H26	H53

COF ELECTROLIER SUMMARY

LUMINAIRE NO.	ALIGN.	STATION	OFFSET	POLE TYPE	BASE TYPE	LUMINAIRE				CIRCUIT	MOUNT HEIGHT (FT)	MAST ARM LENGTH (FT)	REMARKS
						TYPE	VOLTAGE	WATTAGE	DIMMING (NOTE 8)				
20	"C1"	240+29.1	16.8 RT	STP	CIDH	D	240	60		G1	30	8	
21	"C1"	240+98.0	52.1 LT	STP	CIDH	D	240	60		G2	30	8	
22	"C1"	241+56.6	27.7 RT	WOOD(EX)	N/A	D	240	60		G1	30	8	
23	"C1"	242+12.0	29.6 LT	STP	CIDH	D	240	60		G2	30	8	

COF PEDESTRIAN LUMINAIRE SUMMARY

LUMINAIRE NO.	ALIGN.	STATION	OFFSET	POLE TYPE	BASE TYPE	LUMINAIRE				CIRCUIT	MOUNT HEIGHT (FT)	MAST ARM LENGTH (FT)	REMARKS
						TYPE	VOLTAGE	WATTAGE	DIMMING (NOTE 8)				
P1	"C1"	240+68.7	52.4 LT	POST	PLPF	E	240	99		G4	12		
P2	"C1"	240+68.6	16.8 RT	POST	PLPF	E	240	99		G3	12		
P3	"C1"	241+16.6	16.9 RT	POST	PLPF	E	240	99		G3	12		
P4	"C1"	241+46.8	31.2 LT	POST	PLPF	E	240	99		G4	12		

ABBREVIATIONS:

EX EXISTING
 CIDH CAST IN DRILLED HOLE
 STP STEEL TAPERED POLE
 PLPF PEDESTRIAN LIGHT POLE FOUNDATION

ILLUMINATION SUMMARY
3 OF 4

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

**12/22/2022
REVIEW
PS&E**

12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPF\385_Airport & Cushman Reconstruction\DWGS\C\Sheets\64078_H24-H27_ILLUM_SUMM-H27_Thu_Dec/22/22 01:11pm
 (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H27	H53

NOTE:
SEE SHEET H24 FOR ELECTROLIER NOTES.

LUMINAIRE JUNCTION BOX SUMMARY						
LUMINAIRE NO.	ALIGN.	STATION	OFFSET	TYPE	CIRCUIT	REMARKS
1	"A1"	156+01.1	LT	1A	A4	
2	"A1"	157+18.3	RT	1A	A2	
3	"A1"	158+16.2	RT	1A	A2	
4	"A1"	158+11.2	LT	1A	A4	
5	"A1"	159+45.8	RT	1A	A2, A4	
6	"A1"	159+69.9	LT	1A	A4	
7	"A1"	160+51.6	RT	1A	A2, A4, CC16	
8	"A1"	160+44.4	LT	1A	A4	
9	"A1"	162+08.4	LT	1A	A3, CC16	
10	"A1"	162+35.6	RT	1A	A1	
11	"A1"	163+00.7	LT	1A	A3	
12	"A1"	164+40.9	RT	1A	A1	
13	"A1"	165+55.2	RT	1A	A1	
14	"A1"	166+63.9	LT	1A	A3	
15	"A1"	167+80.6	RT	1A	A1	
16	"C1"	233+53.2	LT	1A	CC16	
17	"C1"	234+64.1	LT	1A	CC16	
18	"C1"	235+94.7	LT	1A	CC16	
19	"C1"	237+36.4	LT	1A	CC16	
20	"C1"	240+33.6	RT	1A	G1	
21	"C1"	240+93.0	LT	1A	G2, G4, G6, GTWY PWR	
80	"C1"	233+97.0	RT	1A	CC16	
81	"C1"	240+37.7	LT	1A	GTWY PWR	
82	"C1"	242+30.6	LT	1A	G2, G4, G6, GTWY PWR	
P1	"C1"	240+64.8	LT	1A	G2, G4, G6, GTWY PWR	
P2	"C1"	240+72.6	RT	1A	G1, G3, G5	
P3	"C1"	241+22.8	RT	1A	G1, G3, G5	
P4	"C1"	241+42.8	LT	1A	G2, G4, G6, GTWY PWR	
P5	"C1"	241+50.6	RT	1A	G1, G3, G5	
P6	"C1"	241+99.3	RT	1A	G1, G3, G5	

ELECTROLIER DEMOLITON SUMMARY			
ALIGN.	STATION	OFFSET	REMARKS
"A1"	156+41.1	LT	SALVAGE 2 EA LUMINAIRE
"A1"	157+95.2	RT	SALVAGE LUMINAIRE
"A1"	158+72.3	LT	SALVAGE LUMINAIRE
"A1"	159+34.8	LT	SALVAGE LUMINAIRE
"A1"	159+35.1	RT	SALVAGE LUMINAIRE
"A1"	159+62.4	LT	SALVAGE LUMINAIRE
"A1"	160+50.6	LT	SALVAGE LUMINAIRE
"A1"	160+80.3	RT	SALVAGE LUMINAIRE
"A1"	162+12.1	LT	SALVAGE LUMINAIRE
"A1"	163+86.3	LT	SALVAGE LUMINAIRE
"A1"	163+86.3	RT	SALVAGE LUMINAIRE
"A1"	165+44.9	LT	SALVAGE LUMINAIRE
"A1"	167+03.8	LT	SALVAGE LUMINAIRE
"A1"	167+03.9	RT	SALVAGE LUMINAIRE

REMOVE UTILITY POLE MOUNTED LUMINAIRE			
ALIGN.	STATION	OFFSET	REMARKS
"A1"	156+88.8	LT	SALVAGE LUMINAIRE
"C1"	233+98.8	RT	
"C1"	235+18.5	RT	
"C1"	236+01.9	RT	
"C1"	237+75.0	RT	

LIGHTING DEMOLITION NOTES:

1. CONTRACTOR SHALL SALVAGE LUMINAIRES FROM EXISTING DEMOLISHED ELECTROLIERS AS SCHEDULED.
2. 4 EA LUMINAIRES SHALL BE SALVAGED FROM DEMOLISHED SIGNAL POLES FROM AIRPORT WAY AND CUSHMAN STREET INTERSECTION.
3. DELIVER SALVAGED FIXTURES TO DOT MAINTENANCE. CONTACT ERIC SLAY (907) 451-5279 TO ARRANGE FOR DELIVERY.
4. UNLESS OTHERWISE NOTED REMOVE EXISTING ELECTROLIER FOUNDATIONS ALONG WITH POLES.
5. REMOVE ANY AERIAL CIRCUITRY ASSOCIATED WITH UTILITY POLE MOUNTED LUMINAIRES SCHEDULED FOR REMOVAL.

ILLUMINATION SUMMARY
4 OF 4

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
 12/22/2022
 REVIEW
 PS&E
 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPF\385_airport_&_cushman_reconstruction\DWGS\c\Sheets\64078_H28_LOAD_CNTR_SUMM-H28_Thu_Dec/22/22 11:51am (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H28	H53

NEW LOAD CENTER SUMMARY											
LOAD CENTER: "LC A" TYPE: 1			UTILITY SOURCE: 25 KVA POLE MOUNT XFMR			GVEA METER: NEW					
LOCATION: CUSHMAN AND AIRPORT, SE CORNER OF INT.			SERVICE: 200 AMP, 480/240 VOLT, 1-PHASE, 3-WIRE								
REMARKS:			MAX. AVAILABLE FAULT CURRENT: 2,758 AMP								
MAIN BREAKER: 200 AMP, 2-POLE, 480/240 VOLT			INTERRUPTING RATING: 14,000 AMP								
AUXILIARY EQUIPMENT SUMMARY											
DESCRIPTION	VOLT	POLES	AMP	REMARKS							
SURGE ARRESTOR	480	2									
PHOTOELECTRIC CONTROL	240										
SELECTOR SWITCH, ON-OFF-AUTO (3-POS)	240	1	10								
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE							
PANEL 'A' SCHEDULE											
480/240 VOLT, 1-PHASE, 3-WIRE, 200A BUS						INTERRUPTING RATING: 14,000 AMP					
CKT. NO.	DESCRIPTION	CKT. BKR.	KVA	KVA / LNE	NO.	DESCRIPTION	CKT. BKR.	KVA			
1	AIRPORT LTG (4 LUMS)	(A-1) 20A/2P	0.4	0.5	2	LIGHTING CONTROL	15A/1P	0.1			
3	EAST OF CUSHMAN, SOUTH SIDE		0.4	0.9	4	CABINET HEATER	15A/1P	0.5			
5	AIRPORT LTG (4 LUMS)	(A-2) 20A/2P	0.4	0.8	6	INTERSECTION LTG	(A-5) 20A/2P	0.4			
7	WEST OF CUSHMAT, SOUTH SIDE		0.4	0.8	8			0.4			
9	AIRPORT LTG (3 LUMS)	(A-3) 20A/2P	0.3	0.3	10	PANEL B SUBFEED		0.0			
11	EAST OF CUSHMAN, NORTH SIDE		0.3	0.3	12	VIA 10VKA TRANSFORMER		0.0			
13	AIRPORT LTG (4 LUMS)	(A-4) 20A/2P	0.4	0.4	14	SPACE		0.0			
15	WEST OF CUSHMAN, NORTH SIDE		0.4	0.4	16			0.0			
SERVICE LOAD:			CONNECTED: 2.0	2.4	4.4	KVA		9	AMP		
			DEMAND: 2.5	3	5.5	KVA		11	AMP		
NOTES: LUM = LUMINAIRE											
* X											
** X											
*** X											

PANEL 'B' SCHEDULE											
120/240 VOLT, 1-PHASE, 3-WIRE, 100A BUS, 100A MAIN BREAKER						INTERRUPTING RATING: 10,000 AMP					
CKT. NO.	DESCRIPTION	CKT. BKR.	KVA	KVA / LNE	NO.	DESCRIPTION	CKT. BKR.	KVA			
1	MAIN DISCONNECT	100A/2P		0.0	2	NOT USED					
3					4						
5	AIRPORT & CUSHMAN LTG (3 LUMS)	(A-3) 20A/2P	0.3	5.3	6	TRAFFIC CONTROLLER	40A/1P	5.0			
7	INTERSECTION LTG		0.3	0.3	8	SPARE	20A1P	0.0			
9	SPARE	20A/2P	0.0	0.0	10	SPARE	20A1P	0.0			
11			0.0	0.0	12	SPARE	20A1P	0.0			
13	SPACE			0.0	14	SPACE					
15				0.0	16	SPACE					
SERVICE LOAD:			CONNECTED: 5.3	0.3	5.6	KVA		23	AMP		
			DEMAND: 6.625	0.375	7.0	KVA		29	AMP		
NOTES: LUM = LUMINAIRE											
* X											
** X											
*** X											

EXISTING LOAD CENTER SUMMARY											
LOAD CENTER: "LC G" TYPE: 1A			UTILITY SOURCE: 25 KVA POLE MOUNT XFMR			GVEA METER #x					
LOCATION: CUSHMAN AND GAFFNEY, SW CORNER OF INT.			SERVICE: 100 AMP, 120/240 VOLT, 1-PHASE, 3-WIRE								
REMARKS:			MAX. AVAILABLE FAULT CURRENT: x AMP								
MAIN BREAKER: 100 AMP, 2-POLE, 120/240 VOLT			INTERRUPTING RATING: 10,000 AMP								
AUXILIARY EQUIPMENT SUMMARY (E)=EXISTING, (D)=REMOVE, (N)=ADD NEW, (R)=REPLACE/REPAIR AS NOTED											
DESCRIPTION	VOLT	POLES	AMP	REMARKS							
SURGE ARRESTOR	240	2									
SELECTOR SWITCH, AUTO-ON-OFF (2-POS)	240	1	10								
LIGHTING CONTROL CONTACTOR	240	10	30	MAGNETICALLY LATCHED TYPE							
PANEL 'A' SCHEDULE											
120/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO						INTERRUPTING RATING: 10,000 AMP					
CKT. NO.	DESCRIPTION	CKT. BKR.	KVA	KVA / LEG	NO.	DESCRIPTION	CKT. BKR.	KVA			
1	TRAFFIC CONTROLLER (E)	40A/1P	3.0	3.9	2	LIGHTING (E)	20A/2P	0.9			
3	SPACE	-	0.0	0.9	4	INTERSECTION LIGHTING: GAFFNEY/11TH-12TH		0.9			
5	RECEPT(N) W CUSHMAN, S OF GAFFNEY (G-6)	20A/1	0.5	0.7	6	LIGHTING (E)	20A/2P	0.2			
7	RECEPT(N) W CUSHMAN, S OF GAFFNEY (G-4)	20A/1	0.5	0.7	8	GAFFNEY/WEST SIDE		0.2			
9	RECEPT(N) E CUSHMAN, S OF GAFFNEY (G-5)	20A/1	0.5	0.7	10	LIGHTING (E)	20A/2P	0.2			
11	RECEPT(N) E CUSHMAN, S OF GAFFNEY (G-3)	20A/1	0.5	0.7	12	GAFFNEY/EAST SIDE		0.2			
13	RECEPT (E)	20A/2P	0.5	0.8	14	LIGHTING (N) REUSE EXISTING BRKR (G-2)	20A/2P	0.2			
15	WEST SIDE /CUSHMAN		0.5	0.8	16	GAFFNEY/WEST SIDE		0.2			
17	RECEPT (E)	20A/2P	1.1	1.5	18	LIGHTING (N) REUSE EXISTING BRKR (G-1)	20A/2P	0.4			
19	EAST SIDE /CUSHMAN		1.1	1.5	20	GAFFNEY/EAST SIDE		0.4			
21	LIGHTING (E)	20A/2P	0.4	0.7	22	LIGHTING (E)	20A/2P	0.3			
23	CUSHMAN/S. GAFFNEY		0.4	0.7	24	GAFFNEY		0.3			
25	GATEWAY (N)	20A/1	0.3	0.3	26	PE LIGHTING CONTROL	15A/2P	0.1			
27	SPACE	-		0.1	28			0.1			
29	SPACE	-		0.0	30	SPACE					
SERVICE LOAD:			CONNECTED: 8.6	5.3	13.9	KVA		58	AMP		
			DEMAND: 10.69	6.63	17.3	KVA		72	AMP		
NOTES: LUM = LUMINAIRE											
* E' INDICATES EXISTING.											
** N' INDICATES NEW EQUIPMENT TO BE INSTALLED.											
*** INSTALL NEW BREAKERS IN 5,7,9,11											

ARC-FLASH SCHEDULE				
DEVICE	VOLTAGE	WORKING DISTANCE	INCIDENT ENERGY ⊙ MAX ARCING CURRENT (CAL/CM ²)	ARC-FLASH BOUNDARY DISTANCE
PANEL A	480V	18"	7.93	4'-11"
PANEL B	240V	18"	2.97	2'-8"

- LOAD CENTER "A" ARC FLASH NOTES:**
- UTILITY TRANSFORMER IS ASSUMED TO BE 25KVA, FED BY 50' OF #2 AL CONDUCTOR. ADJUST CALCULATION IF FIELD CONDITIONS ARE OTHERWISE.
 - ARC FLASH PPE REQUIREMENTS AS PER TABLE 132.7(C)(15)(A): PPE 2.
 - PROVIDE ARC FLASH WARNING LABEL AS PER NFPA 2018 70E 130.5 ARC FLASH RISK ASSESSMENT (H) (3) INDICATING EITHER 3.1 OR 3.2 BUT NOT BOTH,
 - INCIDENT ENERGY AND CORRESPONDING WORKING DISTANCE. 7.06 CAL/CM² WITH A WORKING DISTANCE OF 18"
 - THE REQUIRED PPE: 2.
 - CALCULATED 12-20-22.

LOAD CENTER SUMMARY

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(Bill Paddock) KE#: 00385

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			ALASKA	0002312/Z640780000	2024	H29	H53

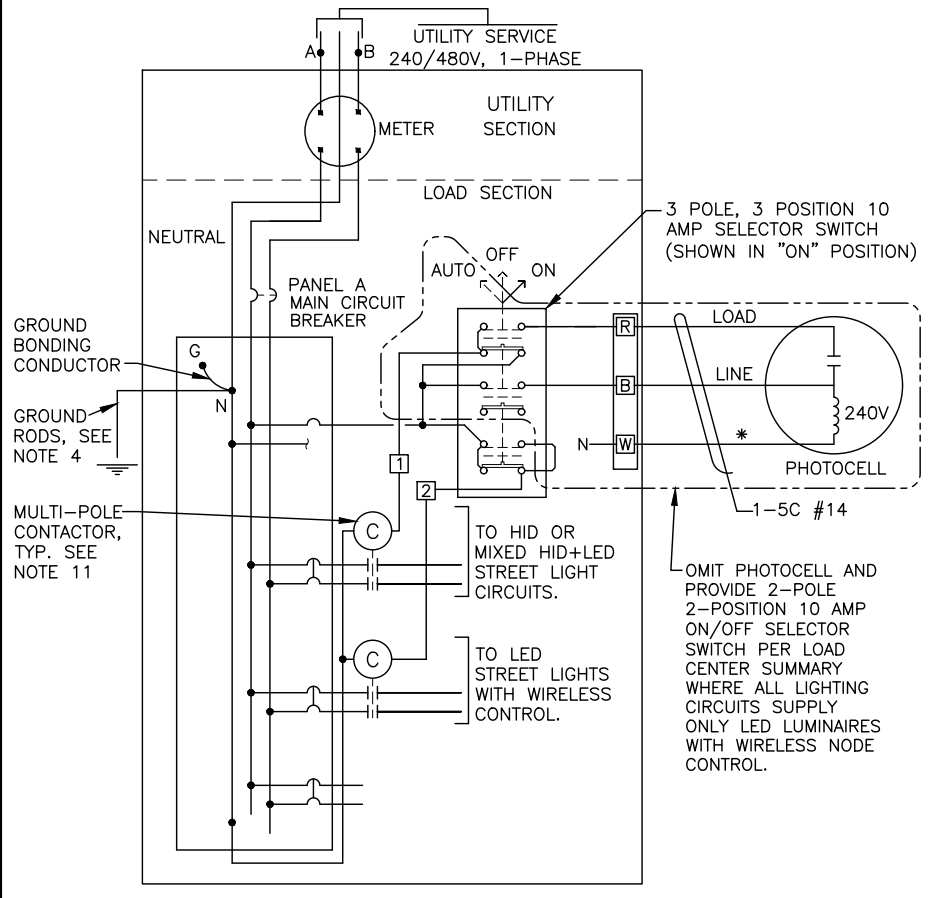
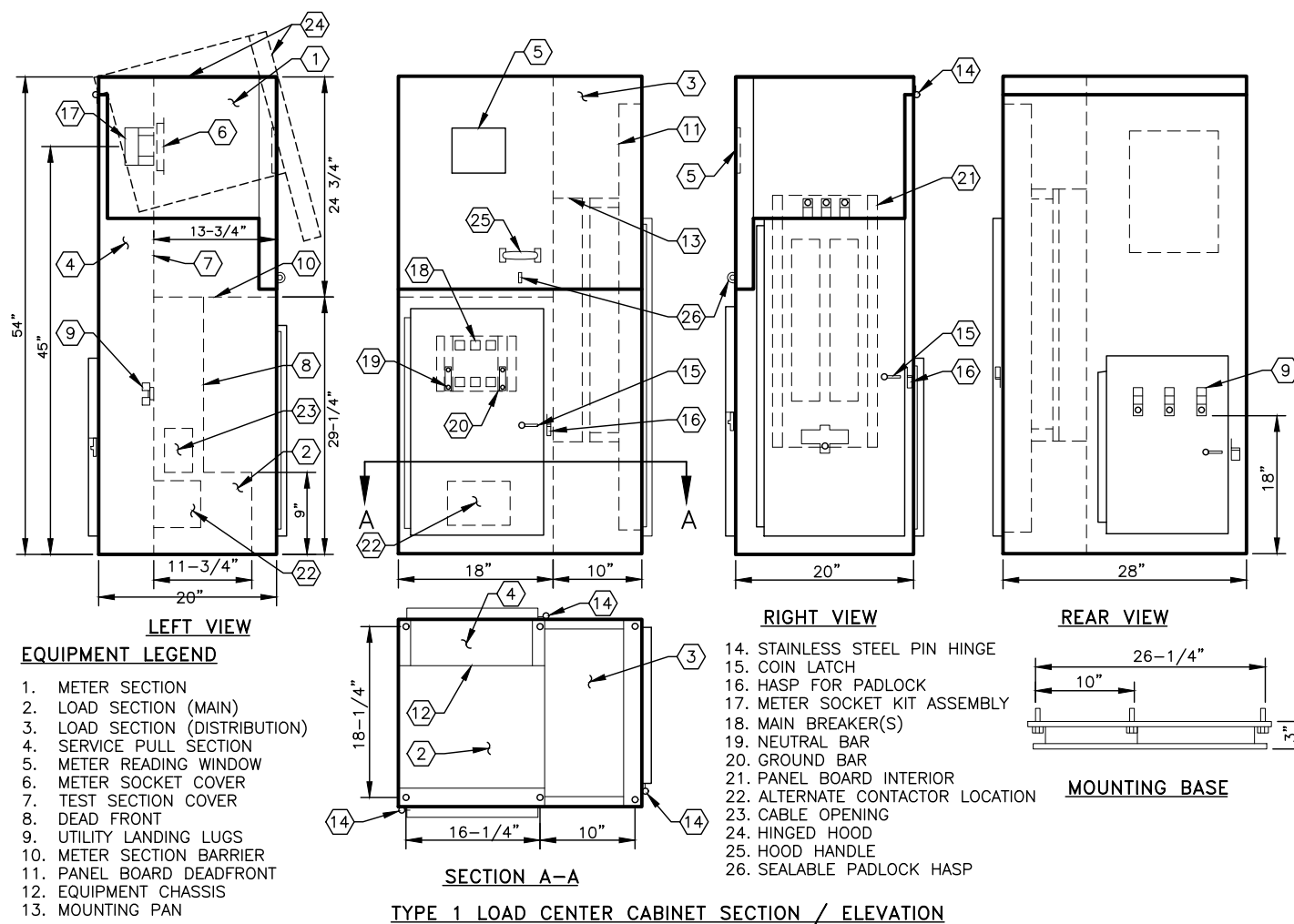
FIBER-OPTIC INTERCONNECT VAULT SCHEDULE					
I/C VAULT NO.	LOCATION			TYPE	REMARKS
	ALIGNMENT	STATION	OFFSET		
1	A1	155+00	54.0' LT	EX TYPE II	
2	A1	160+25	80.0' LT	MANHOLE	COORDINATE PAVERS W/LANDSCAPE SHEETS
3	A1	162+50	72.0' LT	MANHOLE	INSTALL LID CENTER OF SIDEWALK
4	A1	162+69	64.2' RT	MANHOLE	
5	A1	168+38	58.9' RT	EX TYPE II	
6	C1	243+36	22.1' LT	EX TYPE II	

FIBER-OPTIC
 VAULT SCHEDULE

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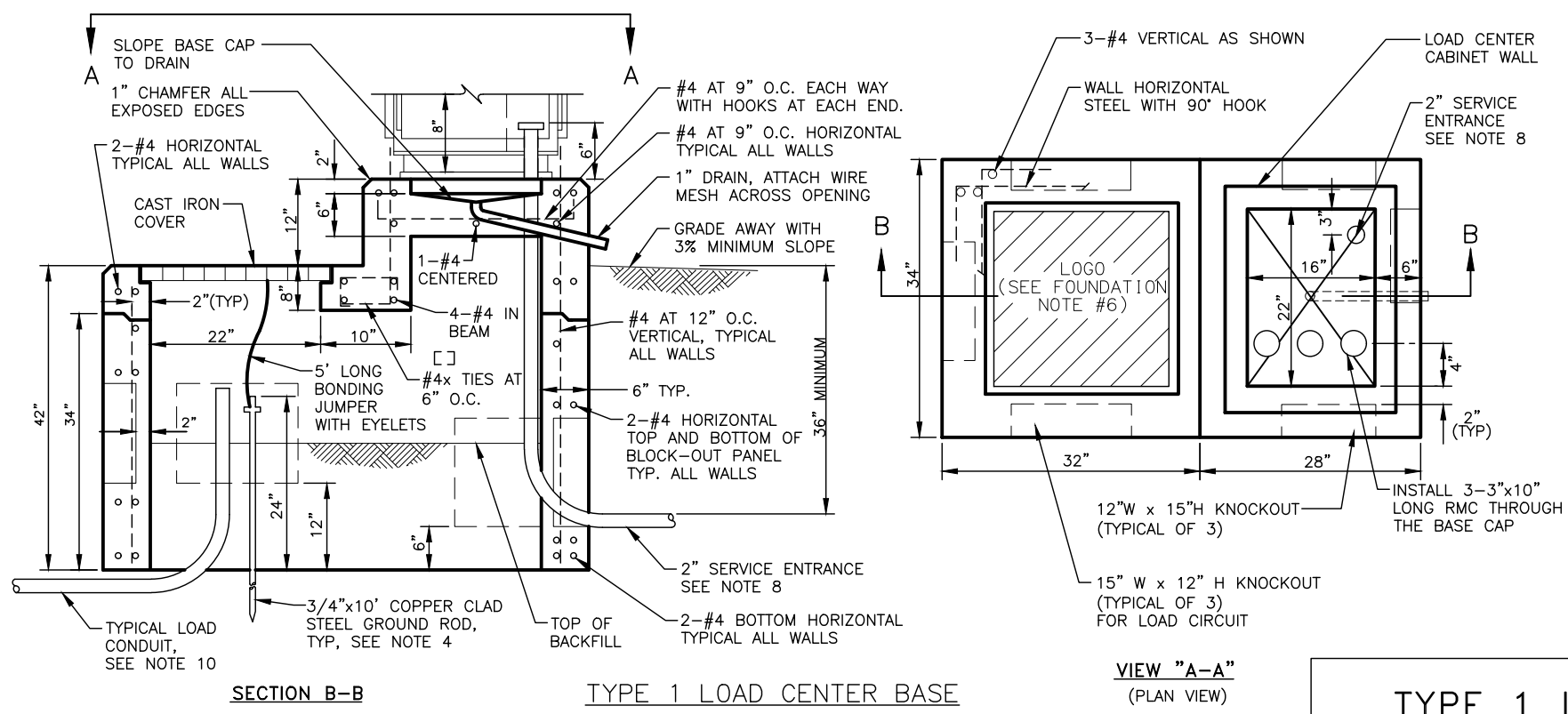
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			ALASKA	0002312/Z640780000	2024	H30	H53



- NOTES:**
- FURNISH ALL EQUIPMENT NOTED IN THE LOAD CENTER SUMMARY, PLUS TWO 20-AMP 2-POLE SPARE CIRCUIT BREAKERS, AND SPACE FOR A MINIMUM OF TWO ADDITIONAL 2-POLE CIRCUIT BREAKERS IN EACH LOAD PANEL. SEE THE LOAD CENTER SUMMARIES FOR LOAD PANEL VOLTAGES, CURRENT RATINGS, AND THE NAME OF THE SERVING UTILITY.
 - INSTALL GROUNDING HUBS THIRD PARTY CERTIFIED FOR WET LOCATIONS ("MYERS" TYPE), WHEN ATTACHING CONDUITS TO THE LOAD CENTER ENCLOSURE.
 - LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION. LABEL THE SELECTOR SWITCH "LIGHTING" AND ITS POSITIONS "ON-OFF-AUTO", OR "ON-OFF" AS REQUIRED BY SWITCH TYPE.
 - PROVIDE TWO GROUND ROD ELECTRODES WITH 6'-0" MINIMUM SEPARATION. GROUNDING ELECTRODE CONDUCTOR SHALL BE #4 AWG MINIMUM.
 - METER BASES SHALL NOT BE MOUNTED ON MOVABLE PANELS OR DOORS.
 - LOCATE THE LOAD CENTER AT LEAST 30 FEET AWAY FROM ANY TRAVELED WAY, OR WHERE INSUFFICIENT RIGHT-OF-WAY EXISTS, ADJACENT TO THE RIGHT-OF-WAY LINE. LOCATE LOAD CENTER FOUNDATION ADJACENT TO EXISTING TYPE 2 J-BOX WITH SUFFICIENT CLEARANCE TO ALLOW FOR CONDUIT/WIRING EXTENSIONS.
 - 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.
 - PROVIDE SERVICE LATERAL AND SECONDARY POLE RISER INSTALLATION IN ACCORDANCE WITH UTILITY REQUIREMENTS. SEE THE PLANS AND LOAD CENTER SUMMARIES FOR LOAD CENTER LOCATION AND POWER SOURCE. PROVIDE SERVICE LATERAL BASED ON THE SPECIFIED LOAD CENTER SERVICE DISCONNECT RATING AS FOLLOWS:
 - 100 AMP: 2" RMC, 3-#2 XHHW
 - 200 AMP: 2" RMC, 3-#3/0 XHHW
 - MAXIMUM METER HEIGHT SHALL NOT EXCEED 64 INCHES FROM CAST IRON COVER TO CENTER OF THE METER SOCKET COVER.
 - EXTEND EXISTING CIRCUITS IN 2" OR 3" RMC AS REQUIRED WITH EQUIPMENT GROUNDING CONDUCTOR AT 26% MAXIMUM CONDUIT FILL FROM EXISTING ADJACENT JUNCTION BOX INTO NEW LOAD CENTER BASEMENT. INCLUDE ONE SPARE 2" RMC FOR FUTURE USE. SPLICING OF CONDUCTORS PER SSSC SECTION 660 IS PERMITTED AT JUNCTION BOX OR LOAD CENTER BASEMENT IF ADDITIONAL LENGTH REQUIRED TO RECONNECT AT NEW LOAD CENTER.
 - CONNECT EACH LIGHTING CONTACTOR COIL WITH A HOMERUN CONNECTION TO A CORRESPONDING NUMBERED TERMINAL BLOCK. SEE LOAD CENTER SUMMARY FOR NUMBER OF CONTACTORS, POLES, AND RATINGS.

- FOUNDATION NOTES:**
- INSTALL THE SURFACE WITH CAST IRON COVER FLUSH WITH THE PAVEMENT, SIDEWALK, OR FINISHED GRADE. 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 INSTALLING THE BASE, EXCAVATE TO 60" BELOW FINISHED GRADE AND INSTALL A DRAIN CONSISTING OF 18" OF COARSE CONCRETE AGGREGATE APPROVED BY THE ENGINEER. BACKFILL AROUND THE BASE IN 6" LIFTS WITH SELECTED MATERIAL TYPE "A".
 - BACKFILL INSIDE THE FOUNDATION TO WITHIN 24" OF THE LID AFTER ALL CONDUITS ARE INSTALLED, USING COARSE AGGREGATE. TERMINATE THE ENDS OF ALL LOAD CONDUITS A MINIMUM OF 6" ABOVE THE COARSE CONCRETE AGGREGATE BACKFILL AND A MINIMUM OF 12" BELOW THE LID.
 - 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 A307 OR A449 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
 - USE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM 615 AND CLASS "A" CONCRETE CONFORMING TO SECTION 501 OF THE SPECIFICATIONS WHEN CASTING THE BASE.
 - FINISH THE BASE ACCESS OPENING WITH A 24" SQUARE IRON FRAME AND COVER, WEIGHING APPROXIMATELY 280 LBS. PROVIDE COVERS INSCRIBED WITH THE LEGEND "LIGHTING" FOR THOSE LOAD CENTERS WITH STREET LIGHTING CIRCUITS ONLY, AND "TRAFFIC" FOR THOSE LOAD CENTERS WITH A TRAFFIC SIGNAL CIRCUIT.
 - IF THE BASE IS PRECAST, INSTALL TWO 3/4" FERRULE LOOP INSERTS IN TWO SIDES OPPOSITE ONE ANOTHER FOR LIFTING.



NOTE: STOP HORIZONTAL AND VERTICAL STEEL AT BLOCK-OUT PANELS & OPTIONAL JOINT USING 90° HOOK. INSTALL 2 EXTRA #4 HORIZONTAL AND VERTICAL BARS ON ALL SIDES OF EACH KNOCKOUT.

TYPE 1 LOAD CENTER DETAILS

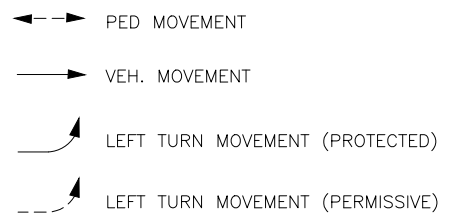
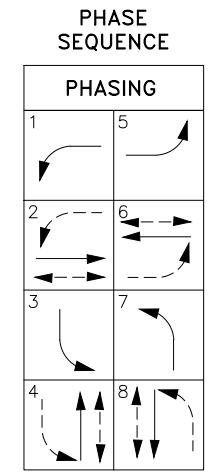
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 (Bill Paddock) KE#: 00385

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			ALASKA	0002312/Z640780000	2024	H31	H53

NOTES:

- EXISTING SIGNAL LINE WORK IS FROM A COMBINATION OF DESIGN TOPOGRAPHIC SURVEY, AS-BUILTS AND SITE VISITS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE MAKING MODIFICATIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- SALVAGE EXISTING SIGNAL EQUIPMENT AND EXISTING LOAD CENTER AT 158+57 57.4' LT PER THE SPECIFICATIONS. THIS WORK SHALL BE PAID FOR UNDER 660.0001.000 TRAFFIC SIGNAL SYSTEM COMPLETE, AIRPORT/CUSHMAN.
- INSTALLATION OF NEW SIGNS ON TRAFFIC SIGNAL STRUCTURES WILL BE PAID FOR UNDER PAY ITEM 615.0001.0000.
- INSTALL NEW SIGNAL CONTROLLER TRANSFORMER AND DISCONNECT AT STA: "A1"162+51 OFF: 74.2 RT. PAYMENT SHALL BE MADE UNDER PAY ITEM 661.0006.0000 TRANSFORMERS, 5KVA.
- SIGNAL POLE LUMINAIRES SHALL BE PER LUMINAIRE SCHEDULE ON SHEET H24, SEE BELOW FOR TYPE. SEE SHEET H33 FOR REQUIRED ILLUMINATION MAST ARMS AND MOUNTING HEIGHTS.
 - POLE 1: TYPE B
 - POLE 2: TYPE B
 - POLE 3: TYPE B
 - POLE 4: TYPE B

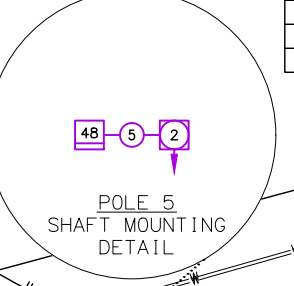
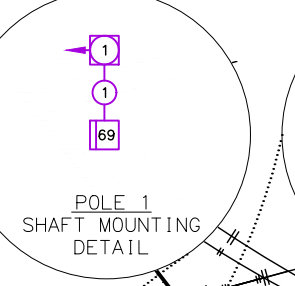
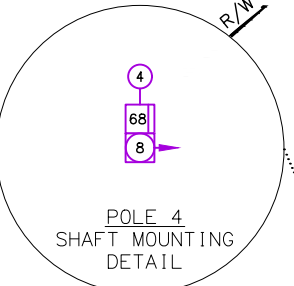
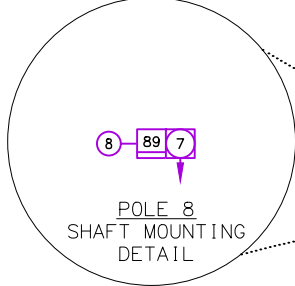
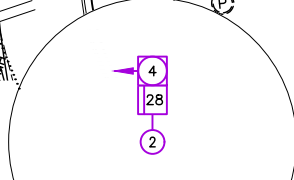
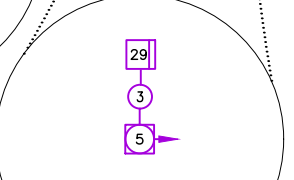
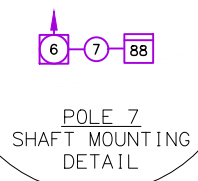
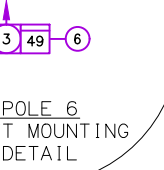
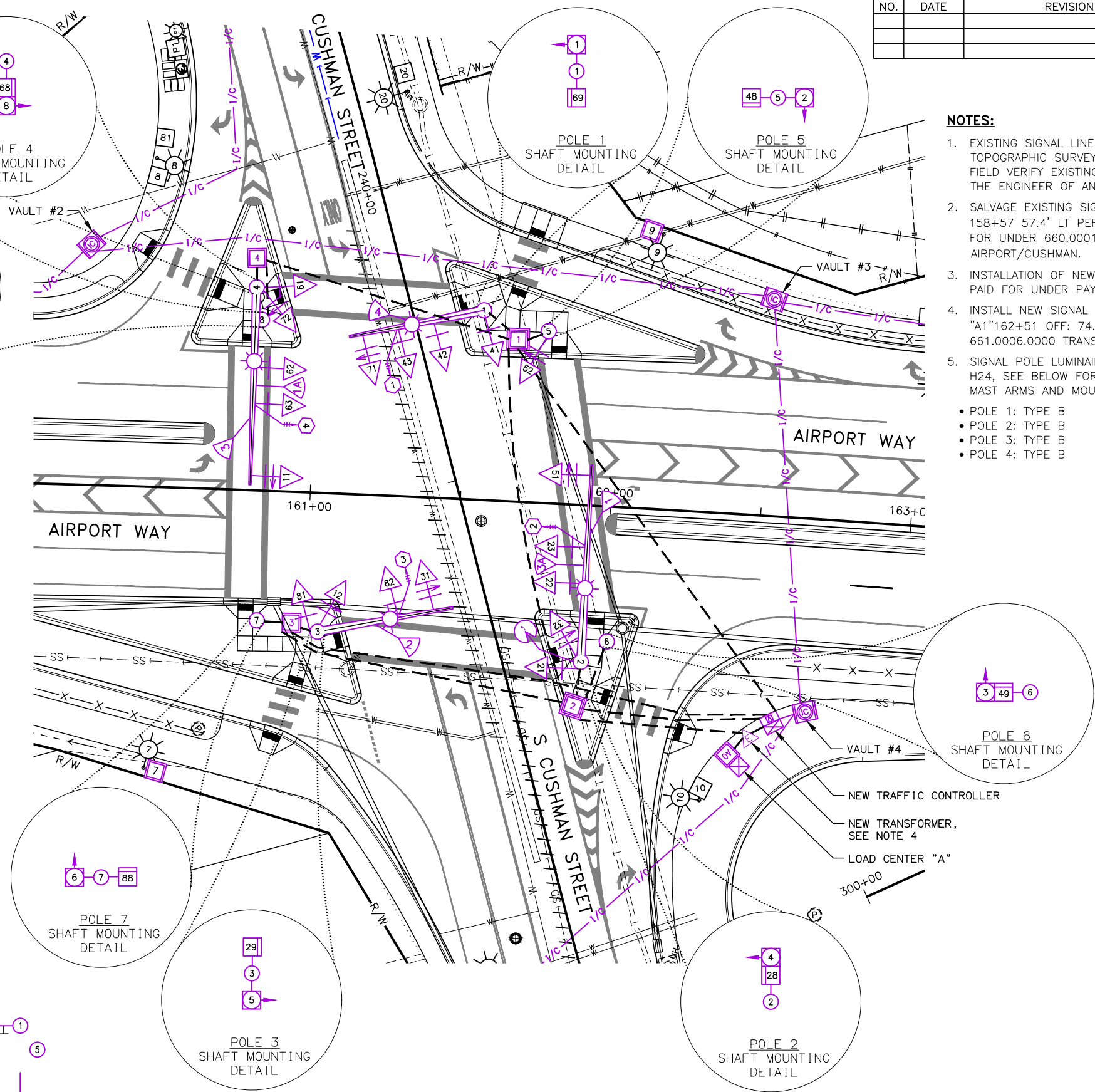


Airport Way

Cushman St

Airport Way

SIGN PLACEMENT



**SIGNAL PLAN
AIRPORT WAY-CUSHMAN
STREET**

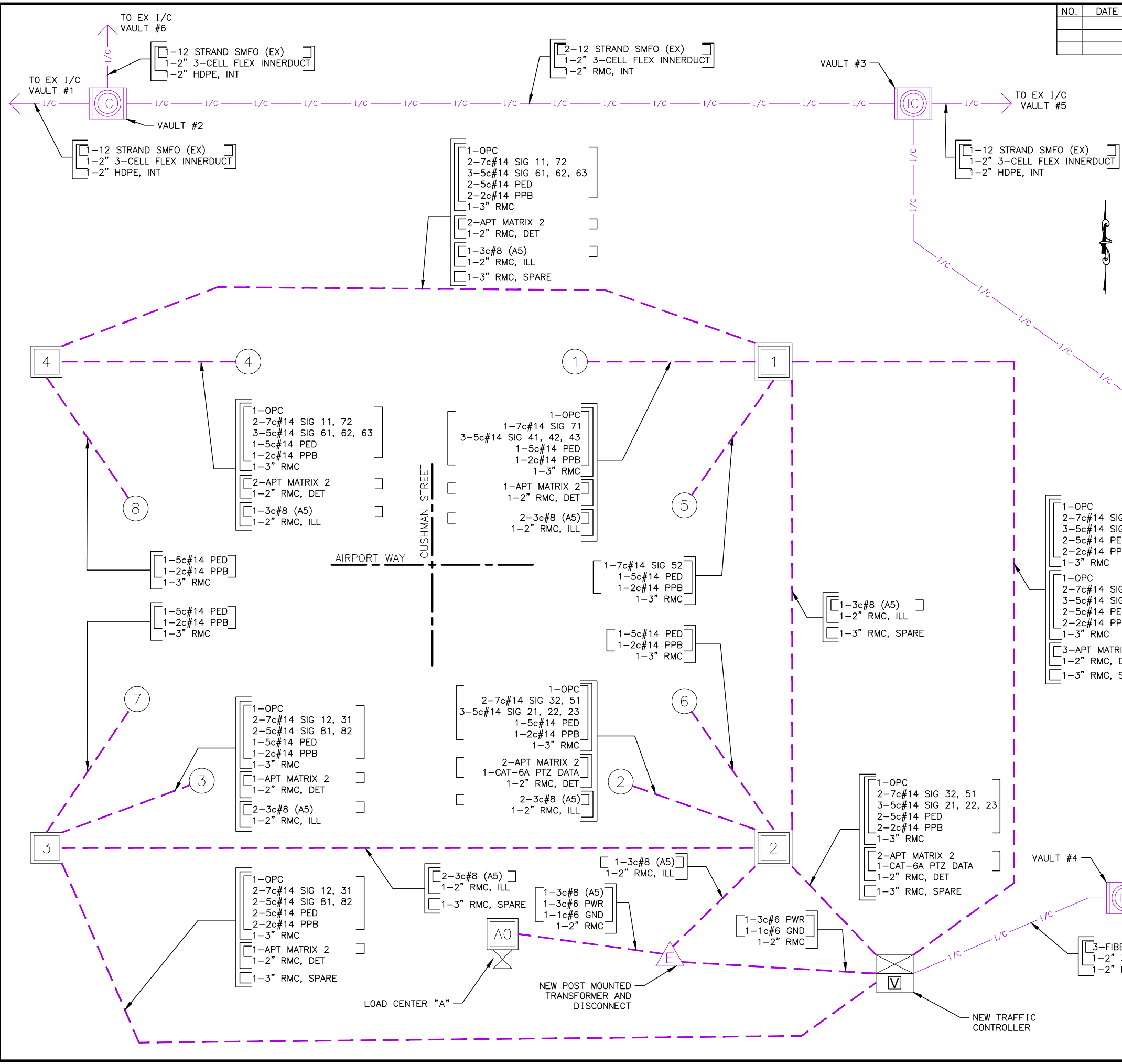
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OPC = OPTICOM CABLE	5c#14	TRAFFIC SIGNALS
LL = LOOP LEAD-IN	7c#14	PROTECTED-PERMITTED SIGNALS
I/C = SMFO INTERCONNECT	5c#14	PEDESTRIAN SIGNALS
PWR = POWER CONDUCTORS	2c#14	PEDESTRIAN PUSH-BUTTON
	3pr#18	
T = TRANSFORMER	6pr#18	} LOOP LEAD-IN CABLE & VD ET
PTZ = PAN, TILT, ZOOM CAMERA	9pr#18	
GND = GROUND	15pr#18	
ILL = ILLUMINATION	3c#8	ILLUMINATION
RMC = RIGID METAL CONDUIT	3c#6	SIGNAL POWER
PVC = POLYVINYL CHLORIDE CONDUIT	1c#8	BARE COPPER GROUND
HDPE = HIGH DENSITY POLYETHYLENE	18pr#19	PE-39 INTERCONNECT CABLE
PPB = PEDESTRIAN PUSH-BUTTON	1c#6	BARE COPPER GROUND
SIG# = SIGNAL HEAD NUMBER	CAT-6A	DATA CABLE
PED = PEDESTRIAN SIGNAL	SMFO	SINGLE MODE FIBER OPTIC
DET = DETECTION CONDUIT		
F = FUTURE USE		
RDET = RADAR DETECTION		
EX = EXISTING		
AAWF = ACTIVE ADVANCED WARNING FLASHER		

- NOTES:**
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - EXCEPT FOR CONDUITS WITH FIBER OPTIC CABLE, INSTALL 1-1c#8 BARE COPPER GROUND CONDUCTOR IN ALL CONDUITS UNLESS ANOTHER SIZED GROUND CONDUCTOR IS SPECIFIED.



WIRING LEGEND:

	I/C	INDICATES EXISTING INTERCONNECT CONDUIT RUN
	I/C	INDICATES NEW INTERCONNECT CONDUIT RUN
		INDICATES EXISTING CONDUIT RUN
		INDICATES NEW RIGID METAL CONDUIT RUN(S)
		INDICATES THE CONNECTION BETWEEN EXISTING AND NEW CONDUIT

AIRPORT WAY
WIRING DIAGRAM

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC

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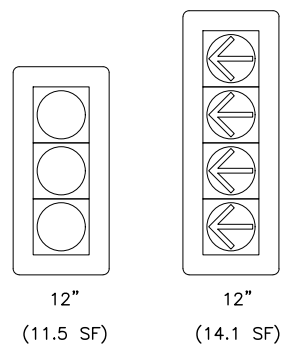
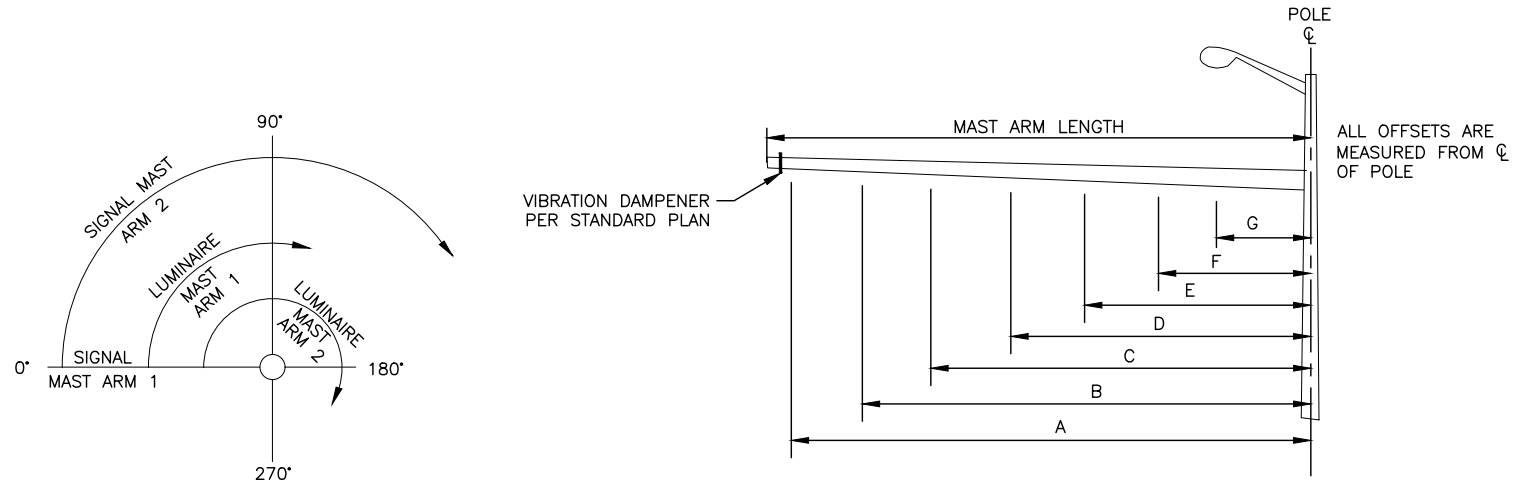
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 Z:\PROJECTS\DOTPF\385_airport_&_cushman_reconstruction\DWGS\SIG_SUMM-H33-H34-SIG_SUMM-H33_Thu, Dec/22/22 11:53am KE#-00385 (Bill Paddock)

POLE-POST DESIGN LOADING SCHEDULE

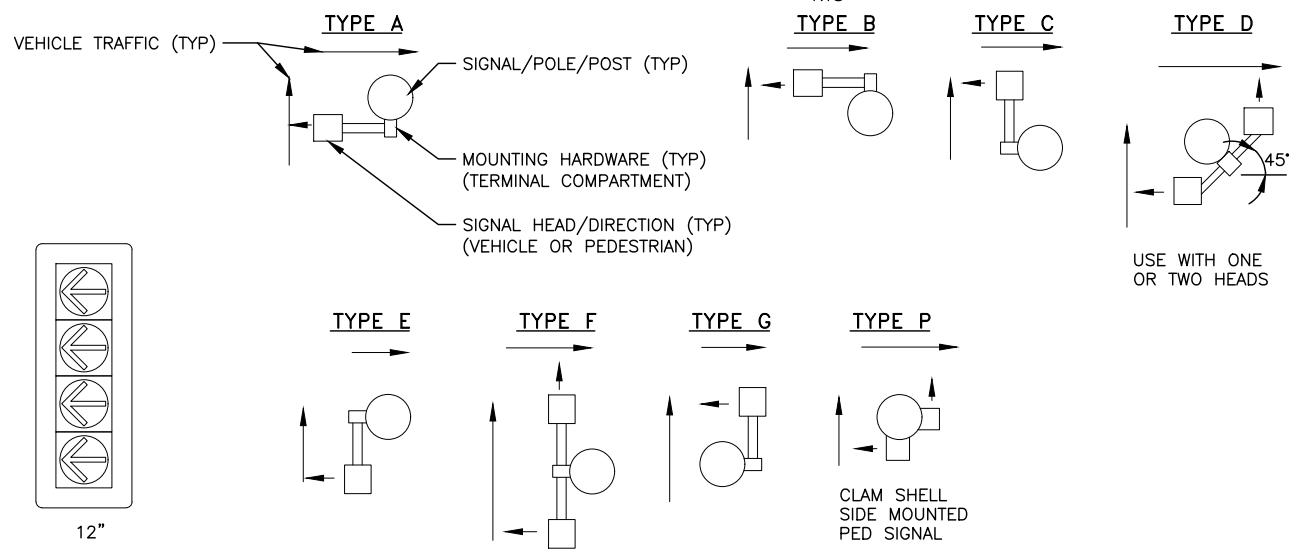
POLE NO.	CORNER	ILLUMINATION # ARM L. (FT.)	SIGNAL ARM L. (FT.)		A	B	C	D	E	F	G	REMARKS
1	NE	LUMINAIRE ARM-22'	45'	SIG. OR SIGN	SIGNAL	SIGNAL	RADAR	SIGNAL	SIGN			LUMINAIRE ARM @ 0' MOUNTING HEIGHT @ 40'
				LOC. OFFSET	41.2	29.2	23.2	17.2	8.2			
				LxW OR S.F.	14.10	11.50	1.00	11.50	18.00			
2	SE	LUMINAIRE ARM-22'	65'	SIG. OR SIGN	SIGNAL	RADAR	SIGNAL	RADAR	SIGNAL	SIGN		LUMINAIRE ARM @ 0' MOUNTING HEIGHT @ 40'
				LOC. OFFSET	62.1	41.1	38.1	32.1	26.1	12.3		
				LxW OR S.F.	14.10	1.00	11.50	1.00	11.50	18.00		
3	SW	LUMINAIRE ARM-22'	45'	SIG. OR SIGN	SIGNAL	SIGNAL	RADAR	SIGN				LUMINAIRE ARM @ 0' MOUNTING HEIGHT @ 40'
				LOC. OFFSET	39.3	27.2	18.7	9.7				
				LxW OR S.F.	14.10	11.50	1.00	18.00				
4	NW	LUMINAIRE ARM-22'	65'	SIG. OR SIGN	SIGNAL	RADAR	SIGNAL	RADAR	SIGNAL	SIGN		LUMINAIRE ARM @ 0' MOUNTING HEIGHT @ 40'
				LOC. OFFSET	62.5	42.4	38.5	32.5	26.5	15.0		
				LxW OR S.F.	14.10	1.00	11.50	1.00	11.50	18.00		

POLE-POST DESIGN LOADING SCHEDULE NOTES:

- BOTH SIGNAL AND ILLUMINATION MAST ARMS ARE ORIENTED IN THE SAME DIRECTION UNLESS OTHERWISE NOTED.
- ORIENT SIGNAL MAST ARM(S) 90° TO THE CL OF THE ROADWAY UNLESS NOTED OTHERWISE.



SIGNAL HEAD CONFIGURATIONS
 (AREAS ARE FOR WIND LOAD CALCULATIONS)
 (ARROWS AND BALL INDICATIONS ARE INTERCHANGEABLE)



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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SIGNAL SIGN SCHEDULE

SIGN NO.	LOCATION		ASDS CODE	LEGEND	SIZE HxV (INCHES)	AREA (SQ FT)	BRACING/FRAMING		REMARKS
	POLE NO.	OFFSET					BRACED	FRAMED	
1	1	8.2	D3-1	Airport Way	108x24	18.00			
2	2	12.3	D3-1	Cushman St	108x24	18.00			
3	3	9.7	D3-1	Airport Way	108x24	18.00			
4	4	15.0	D3-1	Cushman St	108x24	18.00			
						SUBTOTAL SIGNAL SIGNS	72.00		

SIGNAL SIGN SCHEDULE NOTES:

- LOCATION OFFSETS ARE FROM CENTER OF SIGN TO CL OF SIGNAL POLE.

SIGNAL HEAD SCHEDULE

POLE/POST NO.	FACE NO.	INDICATIONS												MOUNTING			REMARKS	
		12" BALL			12" ARROW				8" BALL			MAST ARM		SIDE MTNG. TYPE	TOP OF POST			
		R	Y	G	R	Y	FYA	G	R	Y	G	LOC. OFFSET	ELEV. PLUMB					
1	41	X	X	X													D	
	42	X	X	X									17.2	X				
	43	X	X	X									29.2	X				
2	71				L	L	L	L					41.2	X			D	
	21	X	X	X													D	
	32				L	L	L	L									D	
3	22	X	X	X									26.1	X				
	23	X	X	X									38.1	X				
	51				L	L	L	L					62.1	X			D	
4	81	X	X	X													D	
	12				L	L	L	L									D	
	82	X	X	X									27.2	X				
5	31				L	L	L	L					39.3	X				
	61	X	X	X													D	
	72				L	L	L	L									D	
	62	X	X	X									26.5	X				
	63	X	X	X									38.5	X				
11				L	L	L	L					62.5	X					
52				L	L	L	L									X		

SIGNAL HEAD SCHEDULE NOTES:

- LOCATION OFFSETS ARE FROM CENTER OF SIGNAL HEAD TO CL OF SIGNAL POLE.
- FYA = FLASHING YELLOW ARROW.

POLE/POST NO.	FACE NO.	PED SIGNAL HEAD SCHEDULE	
		MOUNTING TYPE	REMARKS
1	69	P	
2	28	P	
3	29	P	
4	68	P	
5	48	P	
6	49	P	
7	88	P	
8	89	P	

SIGNAL SUMMARY

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC

12/22/2022
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PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H34	H53

BASE & JUNCTION BOX SCHEDULE												
LOCATION		DESCRIPTION			BASE TYPE*			JUNCTION BOX TYPE				REMARKS
STATION	OFFSET	POLE NO.	JUNCTION BOX NO.	CONTROLLER	CIDH	L	A	IA	II	III	IV	
"A1" 161+54.8	63.0' LT	1			X							
"A1" 161+92.3	52.2' RT	2			X							SEE NOTE 2
"A1" 161+04.1	46.6' RT	3			X							SEE NOTE 2
"A1" 160+79.1	67.4' LT	4			X							SEE NOTE 2
"A1" 161+76.4	57.2' LT	5				X						SEE NOTE 2
"A1" 162+01.2	44.8' RT	6				X						SEE NOTE 2
"A1" 160+83.8	43.2' RT	7				X						SEE NOTE 2
"A1" 160+81.8	56.8' LT	8				X						SEE NOTE 2
"A1" 161+66.5	53.9' LT		1							X		SEE NOTE 1 & 2
"A1" 161+92.8	66.9' RT		2							X		SEE NOTE 1 & 2
"A1" 160+95.4	43.5' RT		3						X			SEE NOTE 1
"A1" 160+71.0	63.4' LT		4						X			SEE NOTE 1
"A1" 162+42.5	78.9' RT		A0						X			INSTALL ADJACENT TO LOAD CENTER 'CA'
"A1" 162+58.0	68.6' RT			X						X		

NOTES:

- MAINTAIN 5' MINIMUM DISTANCE FROM SIGNAL POLE FOUNDATION.
- INSTALL ADJACENT TO PEDESTRIAN PATH IF IN PEDESTRIAN ISLAND OR AT BACK OF SIDEWALK IN OTHER LOCATIONS.

***BASE TYPE ABBREVIATIONS:**

L = LIGHT POLE FOUNDATION. SEE DETAIL SHEET HXX.
 P = PRECAST BASE (FOUNDATION)
 A = TYPE "A" SIGNAL BASE POST FOUNDATION. SEE STD. DWG, T-31.00
 CIDH = CAST IN DRILLED HOLE

OPTICOM DETECTOR SCHEDULE					
LOCATION	DET. NO.	PHASE CALL	FACING DIR.	PREEMPTOR PRIORITY	REMARKS
ON TOP OF SIGNAL HEAD 43	1	4, 7	SOUTH		
ON TOP OF SIGNAL HEAD 23	2	2, 5	WEST		
ON TOP OF SIGNAL HEAD 82	3	3, 8	NORTH		
ON TOP OF SIGNAL HEAD 63	4	1, 6	EAST		

 OPTICOM DETECTOR NUMBER

RADAR DETECTION SCHEDULE						
DET. NO.	PHASE CALL	TYPE	FACING DIR.	POLE NO.	LOCATION	RADAR TYPE
1	1&6	STOP BAR	NORTHEAST	2	SIGNAL MAST ARM	SMARTSENSOR MATRIX
2	4&7	STOP BAR	SOUTHEAST	3	SIGNAL MAST ARM	SMARTSENSOR MATRIX
3	2&5	STOP BAR	SOUTHWEST	4	SIGNAL MAST ARM	SMARTSENSOR MATRIX
4	3&8	STOP BAR	NORTHWEST	1	SIGNAL MAST ARM	SMARTSENSOR MATRIX
1A	6	ADVANCE	EAST	4	SIGNAL MAST ARM	SMARTSENSOR ADVANCE EXTENDED RANGE
3A	2	ADVANCE	WEST	2	SIGNAL MAST ARM	SMARTSENSOR ADVANCE EXTENDED RANGE

 RADAR DETECTOR NUMBER

FLASH PROGRAM COLOR								
PHASE	1	2	3	4	5	6	7	8
COLOR	R	R	R	R	R	R	R	R

PEDESTRIAN DETECTION SCHEDULE			
POLE	PUSH BUTTON	PHASE	REMARKS
1	1	6	SEE NOTE 2
5	2	4	SEE NOTE 1
6	3	4	SEE NOTE 1
2	4	2	SEE NOTE 2
3	5	2	SEE NOTE 2
7	6	8	SEE NOTE 1
8	7	8	SEE NOTE 1
4	8	6	SEE NOTE 2

PEDESTRIAN DETECTION NOTES:

- INSTALL A R10-3eL SIGN ABOVE PEDESTRIAN PUSH BUTTON. SIGN SHALL NOT BE MEASURED FOR PAYMENT AND IS SUBSIDIARY TO TRAFFIC SIGNAL PAY ITEMS.
- INSTALL A R10-3eR SIGN ABOVE PEDESTRIAN PUSH BUTTON. SIGN SHALL NOT BE MEASURED FOR PAYMENT AND IS SUBSIDIARY TO TRAFFIC SIGNAL PAY ITEMS.


RADAR DETECTION EQUIPMENT	
QTY	DESCRIPTION
2	SMARTSENSOR ADVANCE EXTENDED RANGE (WX-SS-200E)
4	SMARTSENSOR MATRIX (WX-SS-225)
6	PELCO MOUNT (WX-SS-611)
6	SMARTSENSOR 6-CONDUCTOR CABLE (WX-SS-704-XXX)
0	SMARTSENSOR ADVANCE (WX-SS-200V)

NEMA CLOSURE EQUIPMENT	
QTY	DESCRIPTION
0	CLICK 710, SMARTSENSOR 6-CONDUCTOR CABLE JUNCTION BOX (WX-SS-710)

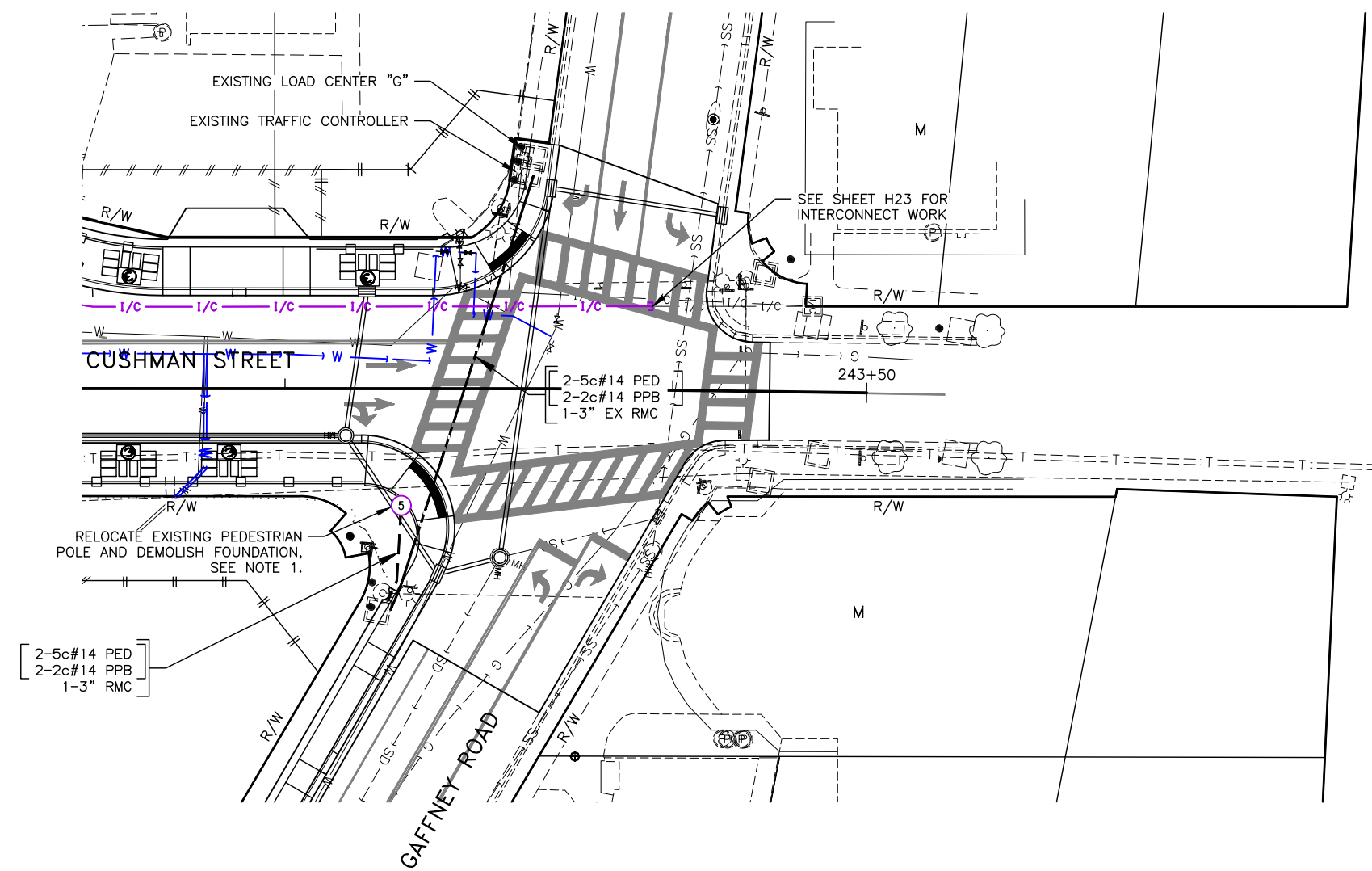
CABINET EQUIPMENT	
QTY	DESCRIPTION
2	CLICK! 650, CABINET INTERFACE (WX-CLK-650)
2	SLDC CABLES (310-0411)

ADDITIONAL EQUIPMENT	
QTY	DESCRIPTION
1	SMARTSENSOR MANAGER ADVANCE SOFTWARE (WX-550-0001)
1	SMARTSENSOR MANAGER MATRIX SOFTWARE (WX-550-0004)

SIGNAL SUMMARY

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC

 12/22/2022
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 12/22/2022

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NOTES:

1. RELOCATE THE EXISTING POLE, ON A NEW LIGHT POLE FOUNDATION (SEE SHEET H37) AT STA: "C1" 242+30.0 OFF: 30.1' RT, LOCATED AT THE BACK OF SIDEWALK., IN KIND WITH THE EXISTING PEDESTRIAN SIGNALS, PUSH BUTTONS, AND SIGNS IN THEIR EXISTING LOCATIONS. THE POLE SHALL BE ORIENTED SO PEDESTRIAN SIGNALS FACE CROSSWALKS. INSTALL NEW CONDUIT AS SHOWN AND RE PULL NEW CONDUCTORS BACK TO EXISTING TRAFFIC CONTROLLER.
2. ADJUST DETECTION FOR NORTHBOUND TRAFFIC AS NEEDED TO ACCOMMODATE NEW LANE LOCATION.
3. ADJUST SIGNAL HEADS AND SIGNS FOR NORTHBOUND TRAFFIC AS NEEDED TO ACCOMMODATE NEW LANE LOCATION.
4. ADJUST EXISTING TRAFFIC CONTROLLER JUNCTION BOX TO FINISHED GRADE AS NEEDED.
5. ALL WORK TO ADJUST SIGNALS, SIGNS AND NECESSARY FOR POLE RELOCATIONS WILL BE PAID FOR UNDER 660.0001.001 TRAFFIC SIGNAL SYSTEM COMPLETE, CUSHMAN/GAFFNEY.

SIGNAL MODIFICATIONS

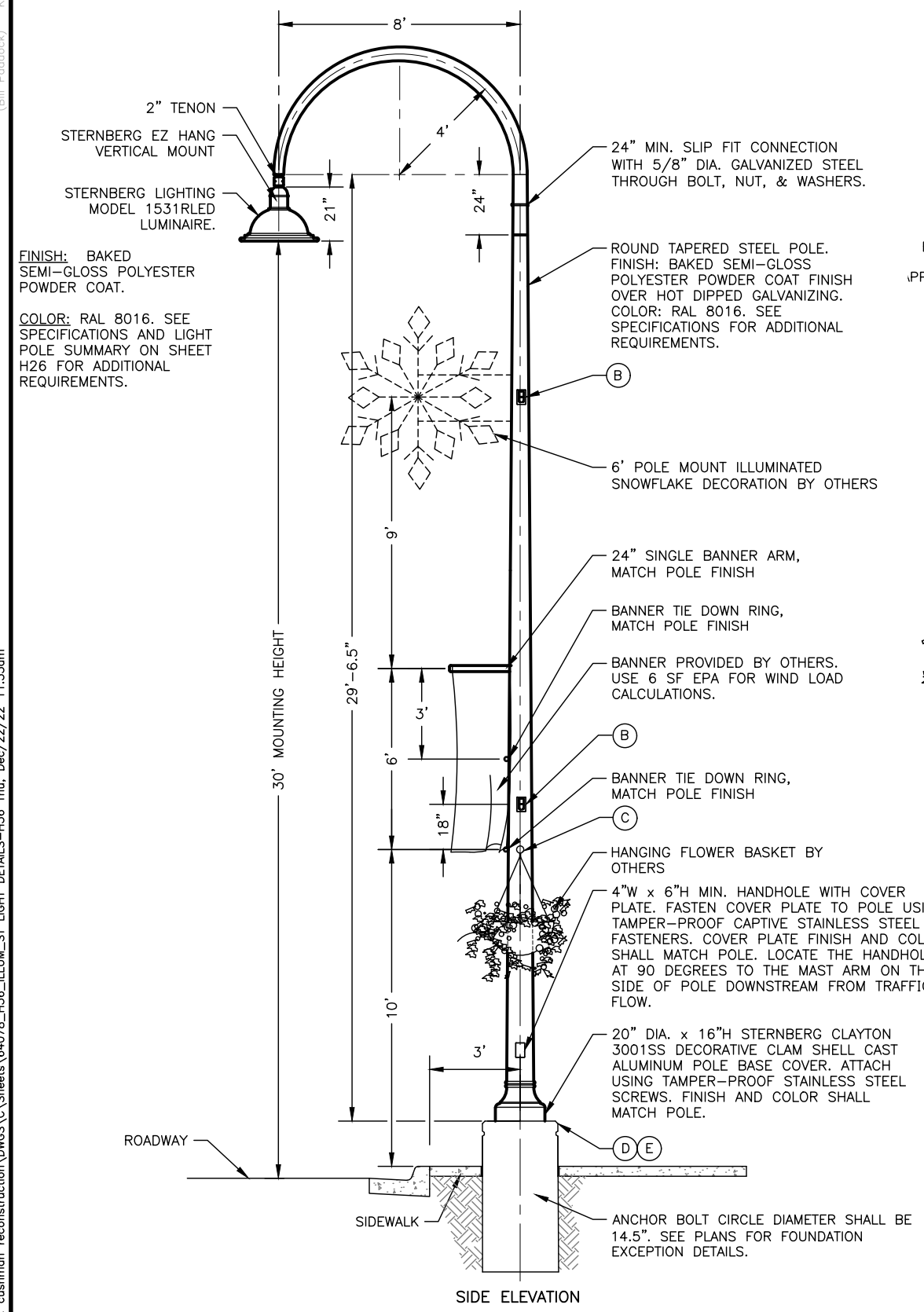
PLANS DEVELOPED BY:
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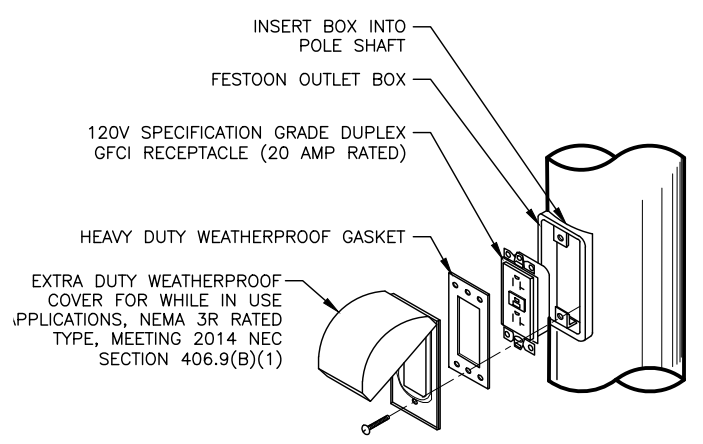
12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE#: 00385

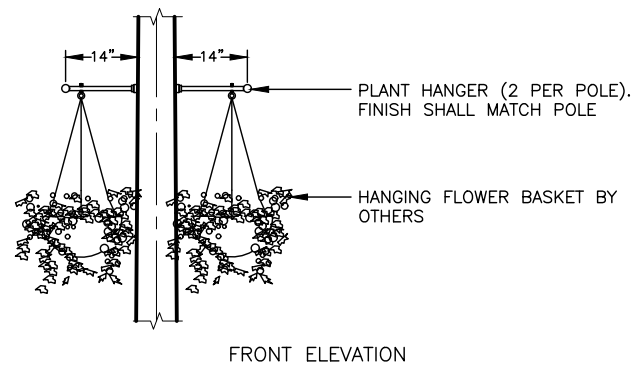
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			ALASKA	0002312/Z640780000	2024	H36	H53



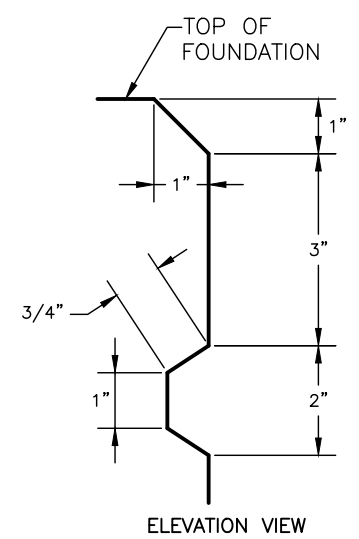
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NOT TO SCALE



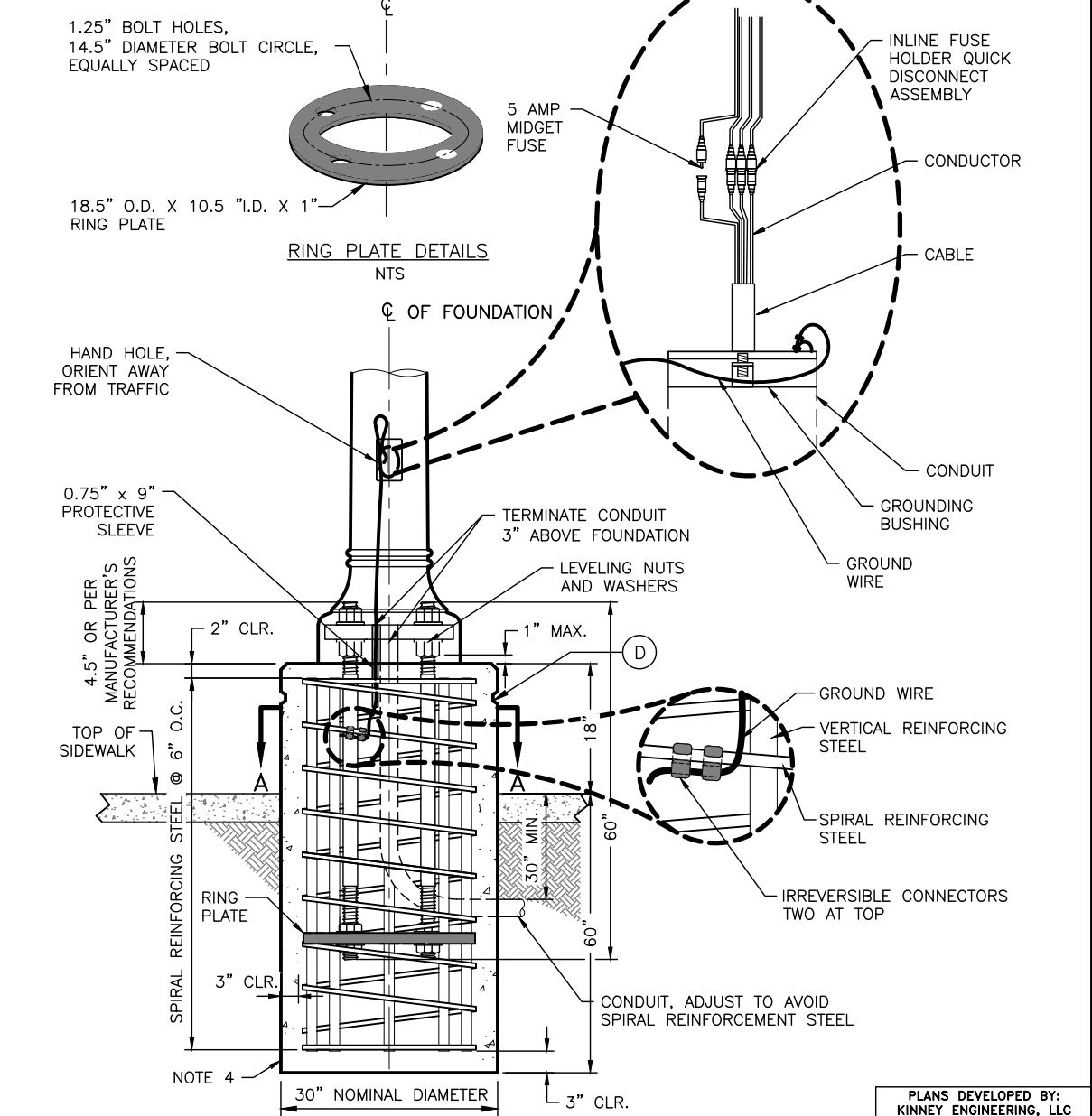
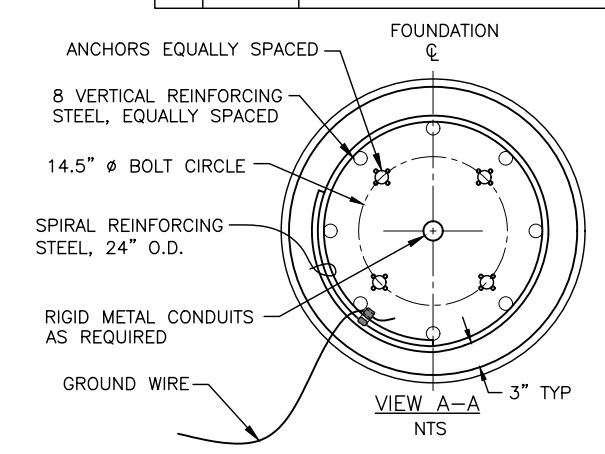
B FESTOON OUTLET DETAIL
NOT TO SCALE



C PLANT HANGER DETAIL
NOT TO SCALE



D REVEAL DETAIL
NOT TO SCALE



E COF STREET LIGHT POLE FOUNDATION
NOT TO SCALE

- NOTES:**
- WELD SIZE TO BE DETERMINED BY MANUFACTURER.
 - MOUNTING HEIGHT, REFERS TO THE HEIGHT OF LUMINAIRE ABOVE THE ROADWAY. ADJUST EACH POLE'S SHAFT LENGTH TO MAINTAIN THIS DIFFERENCE IN ELEVATION WHENEVER THE FOUNDATION VARIES.
 - 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.
 - FORM THE FOUNDATION USING ROUND LAMINATED FIBER CONCRETE FORMS. EXPOSED CONCRETE SURFACES SHALL RECEIVE A SACK RUBBED FINISH.
 - SEE SHEET _____ FOR ADDITIONAL NOTES, FOUNDATION MATERIAL PROPERTIES AND SAND SLURRY MIX DESIGN.

**CITY OF FAIRBANKS
STREET LIGHT DETAILS**

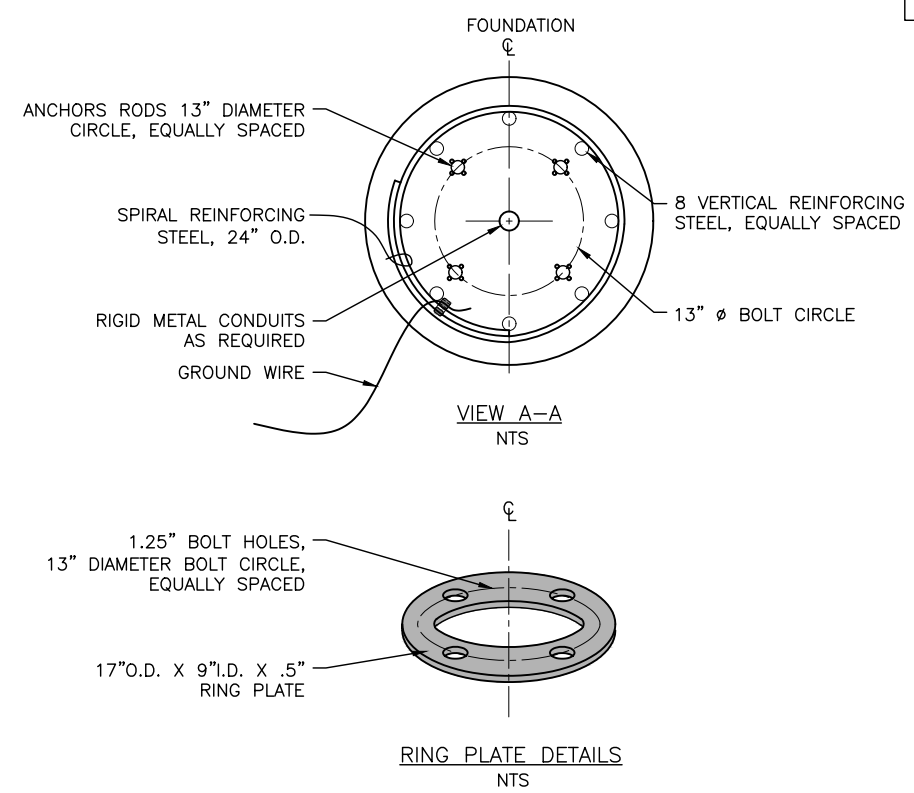
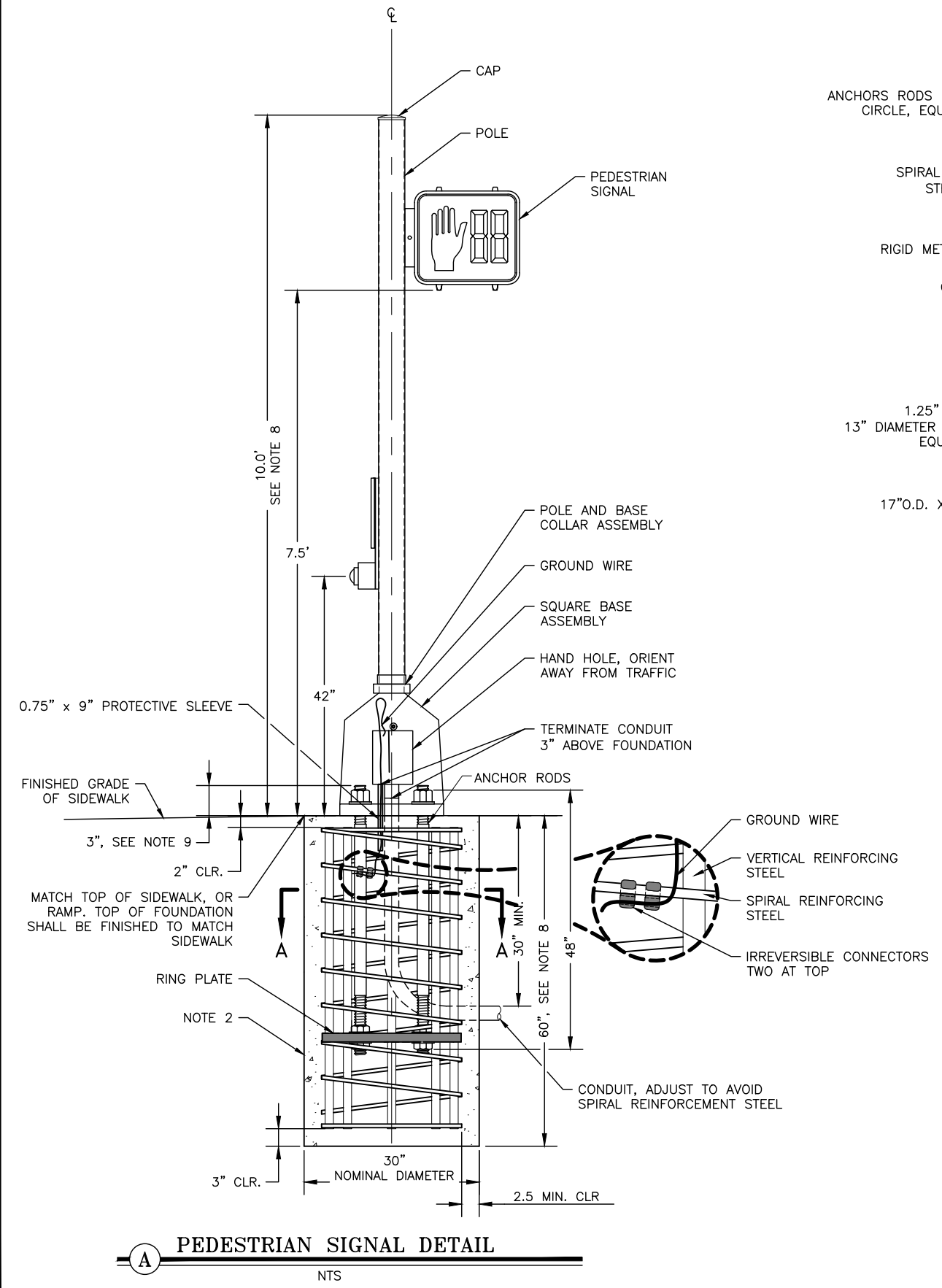
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

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PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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FOUNDATION MATERIAL PROPERTIES		
CONCRETE	CLASS A	$f'_c = 4000$ PSI
VERTICAL REINFORCING STEEL	AASHTO M31 #11	GR 60
SPIRAL REINFORCING STEEL	AASHTO M31 #5	GR 60
GROUND WIRE		#4 AWG.
ANCHOR RODS 1" X 48"	ASTM F1554 S2, S3, & S5	GR 55
FASTENERS, WASHERS	AASHTO M293	
FASTENERS, NUTS	AASHTO M292	
HOT-DIPPED GALVANIZED STEEL FINISH, ANCHOR RODS & FASTENERS	AASHTO M232	
ANCHOR RODS	AASHTO M270	
CONDUIT	SCH 40	RMC
PROTECTIVE SLEEVE	SCH 40	PVC
RING PLATE	AASHTO M270	GR 36

PEDESTRIAN SIGNAL ASSEMBLY	
SQUARE BASE ASSEMBLY	PB-5335 OR APPROVED EQUAL ALUMINUM DOOR GROUNDING LUG
POLE/BASE COLLAR ASSEMBLY	PB-5325 OR APPROVED EQUAL
POLE	PB-5200 OR APPROVED EQUAL
PUSH BUTTON	SEE SUBSECTION 740-2.16
PEDESTRIAN SIGN	R12-3E (L/R) STANDARD SIGN

ITEM	SAND SLURRY MIX DESIGN	
	BATCH QUANTITIES (CUBIC YARD)	
	BY WEIGHT (LBS.)	BY VOLUME (C.F.)
PORTLAND CEMENT CONCRETE	188	.96
WATER (52.1 GAL.)	435	6.97
FINE AGGREGATE SSD	3041	18.00
ADMIXTURE: MICROAIR	2.0 OZ.	1.08
TOTAL	3664	27.00

- NOTES:
- PLACE FOUNDATION IN DRILLED OR EXCAVATED HOLE WITH CENTERLINE OF FOUNDATION LOCATED AT THE STATION, OFFSET AND ELEVATION SPECIFIED IN THE PLANS. GRADE TO DRAIN AWAY FROM FOUNDATION WITHOUT EXPOSING MORE THAN 4" OF THE FOUNDATION FROM THE SURROUNDING GROUND SURFACE.
 - FORM THE FOUNDATION USING ROUND LAMINATED FIBER CONCRETE FORM.
 - FORM THE SPIRAL REINFORCING STEEL OF #5 REBAR. PROVIDE 1.5 EXTRA TURNS AT EACH END OF THE SPIRAL UNIT. REINFORCING STEEL SHALL NOT BE SPLICED. TIE VERTICAL BARS TO EACH INTERSECTION OF THE SPIRAL UNIT.
 - CONNECT GROUND WIRE TO ONE OF THE TOP SPIRALS WITH TWO IRREVERSIBLE, HYDRAULICALLY SWAGED CONNECTOR AS SHOWN. GROUND WIRE SHALL BE BARE SOLID, STRANDED, OF BRAIDED COPPER. PROTECT GROUND WIRE WITH CONDUIT AS SHOWN AND FILL CONDUIT WITH SILICON SEALANT.
 - SECURE RING PLATE TO ANCHOR RODS WITH NUTS AND WASHERS ON BOTH SIDES OF THE RING PLATE AS SHOWN.
 - COMPLETE ALL CONCRETE WORK IN CONFORMANCE WITH SECTIONS 501, 503, AND 660 OF THE SSHC. USE A TUBE WITH A HOPPER HEAD OR OTHER APPROVED DEVICE WHEN DROPPING CONCRETE MORE THAN 5 FEET PER SUBSECTION 501-3.08. VIBRATE CONCRETE DURING PLACEMENT BY MECHANICAL VARIATION PER SUBSECTION 501-3.08. ENSURE ANCHOR ROD THREADS ARE PROTECTED FROM CONTACT WITH CONCRETE DURING CONCRETE WORK.
 - GALVANIZE ANCHOR RODS FULL LENGTH. PROVIDE PERMANENT MANUFACTURERS IDENTIFICATION AND PERMANENT GRADE IDENTIFICATION, ON EACH END OF ANCHOR ROD STEEL DIE STAMP. EACH ANCHOR ROD END SHALL HAVE 8" OF THREAD LENGTH. SECURE EXPOSED ANCHOR RODS WITH A "RING PLATE" WHEN NOT IN SERVICE.
 - WHEN USED FOR TRAFFIC SIGNAL HEADS, INCREASE POLE LENGTH AS REQUIRED TO MOUNT TRAFFIC SIGNAL HEADS TO SIDE OF POLE. IN ADDITION, INCREASE FOUNDATION DEPTH TO 72" AND EXTEND STEEL REINFORCEMENT.
 - USE SQUARE BASE ASSEMBLY FOR PEDESTRIAN SIGNALS ONLY. FOR POLES WITH VEHICLE SIGNAL HEADS, PROVIDE GALVANIZED STEEL POLES THAT CONFORM TO SECTION 740, HAVE A 5" MIN. I.D. AT THE BASE AND WELDED TO A 1 3/8" THICK BASE PLATE. SEE DETAILS B, C, AND E ON SHEET ____ FOR ADDITIONAL REQUIREMENTS.

A PEDESTRIAN SIGNAL DETAIL
NTS

SIGNAL FOUNDATION
DETAILS

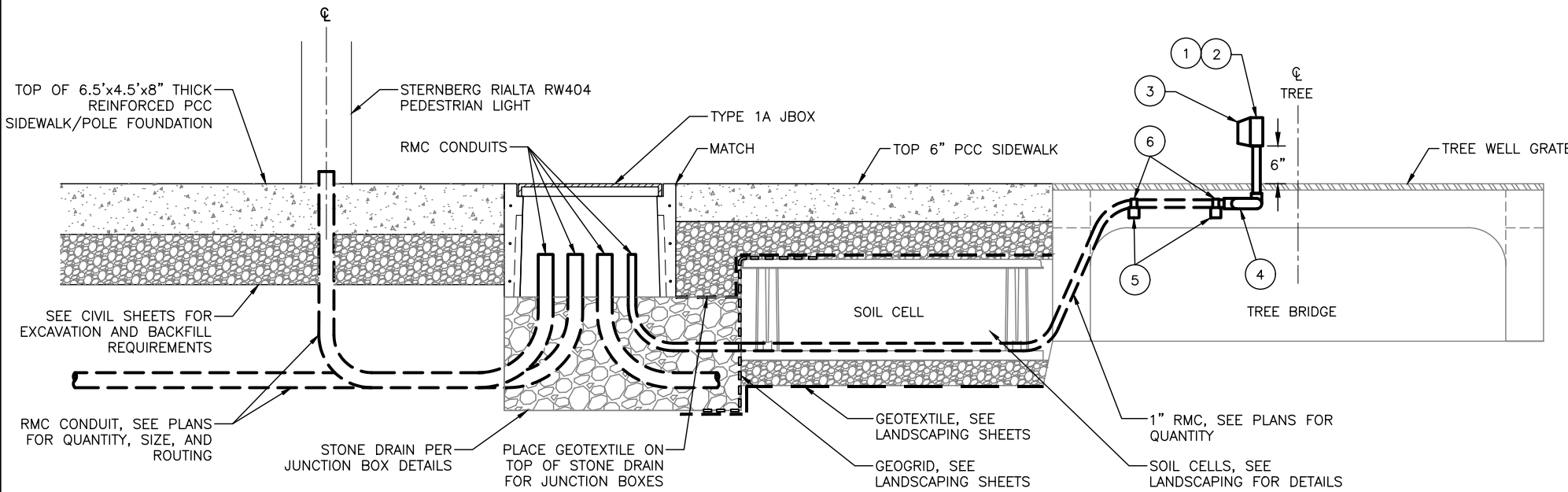
PLANS DEVELOPED BY:
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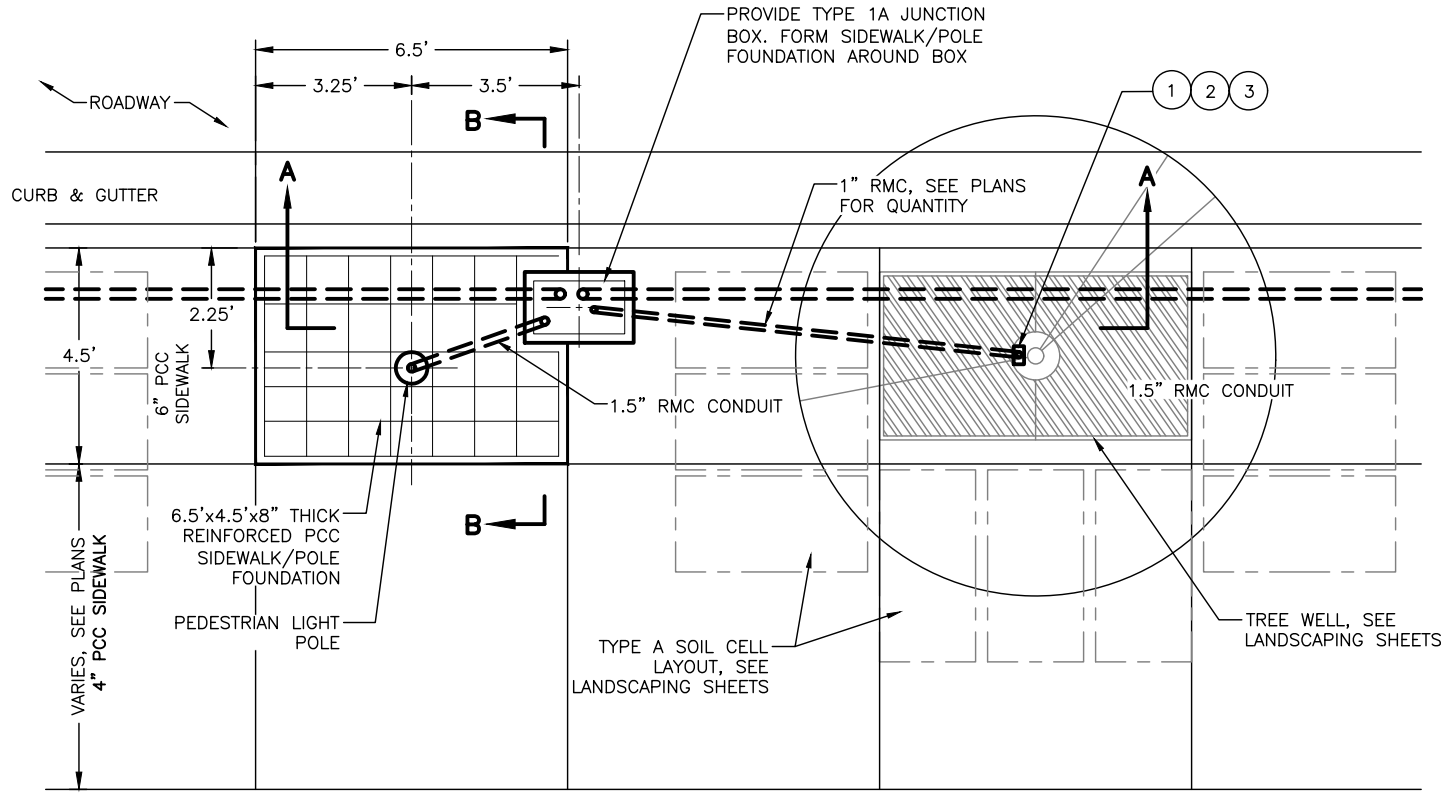
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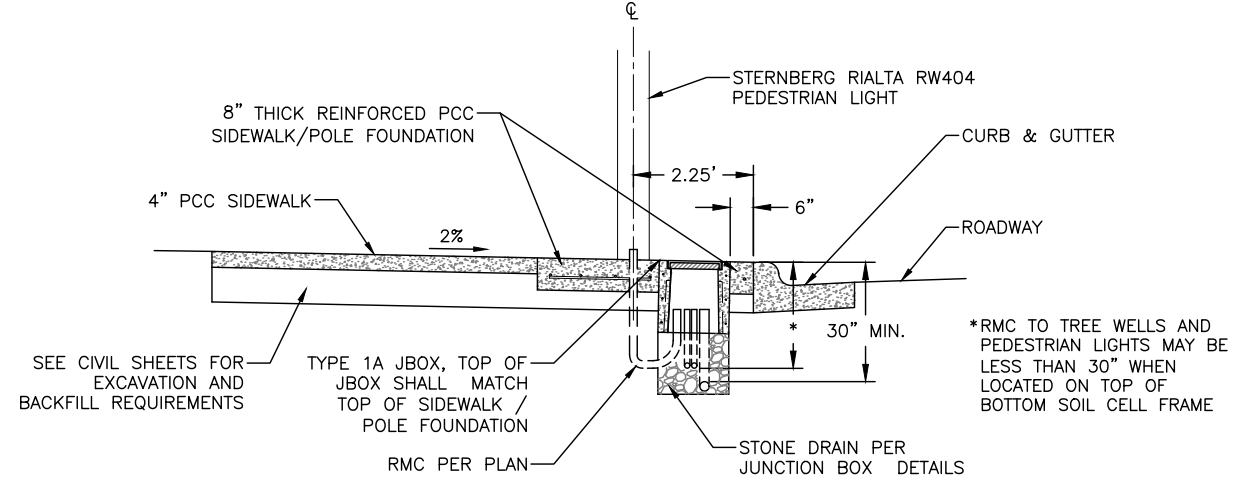


- NOTES:**
- ONE-GANG, HEAVY-DUTY, CAST ALUMINUM, POWDER COATED, WEATHERPROOF OUTLET BOX WITH LUGS. SIZE FOR ONE OR TWO 1" DIAMETER RMC CONDUITS PER PLAN. PROVIDE A MINIMUM 4 1/2"X4 1/2"X2 1/2" SIZED BOX.
 - 20A-125V WEATHER-RESISTANT, TAMPER-RESISTANT SMARTLOCK-PRO GFCI RECEPTACLE.
 - NEMA 3R RATED, HEAVY-DUTY, CAST ALUMINUM, POWDER COATED WHILE-IN-USE COVER. PROVIDE WITH PADLOCK EYE.
 - NEC 6X8X SERIES LR AND LL MOGUL UNILET CONDUIT OUTLET BODIES. BODY SHALL BE HEAVY-DUTY, GALVANIZED STEEL WITH COVER, NEOPRENE GASKET, AND STAINLESS STEEL SCREWS. PROVIDE WITH BUILT IN ROLLERS OR BLUEKOTE TEFLON OR EQUIVALENT INTERNAL COATING. WHEN 2-1" CONDUIT ARE REQUIRED, ORIENT LL AND LR COVERS TO FACILITATE ACCESS.
 - 1-5/8" GALVANIZED STEEL, 12 GAUGE, SQUARE CHANNEL. MOUNT TO SIDE OF PCC TREE BRIDGE WITH HEAVY-DUTY GALVANIZED STEEL BRACKET AND FITTINGS. USE HILTI ANCHOR BOLTS OR APPROVED EQUIVALENT TO ANCHOR BRACKET TO TREE BRIDGE.
 - GALVANIZED STEEL CONDUIT CLAMP. PROVIDE WITH TWO MOUNTING HOLES OR EQUIVALENT (2-POINTS OF CONTACT WITH CHANNEL).

B SECTION A-A
NTS



A PEDESTRIAN LIGHT POLE / TYPE A SOIL CELL - TREE WELL LAYOUT DETAIL



C

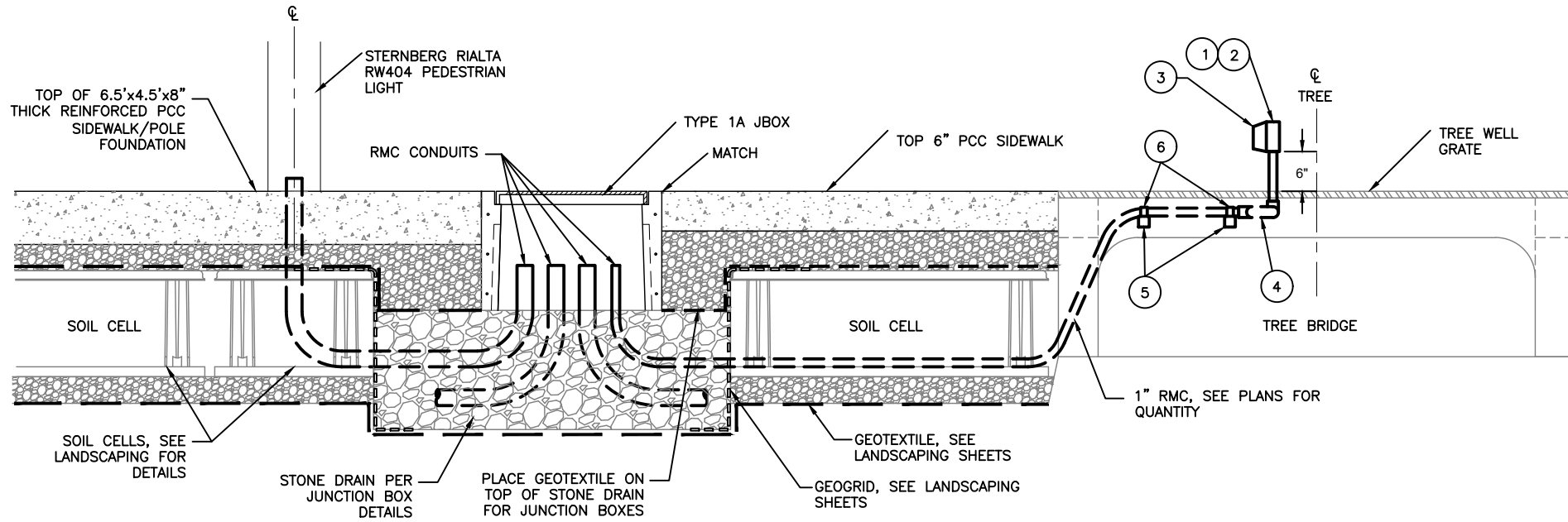
**PEDESTRIAN POLE
DETAILS**

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**12/22/2022
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PS&E**
 12/22/2022

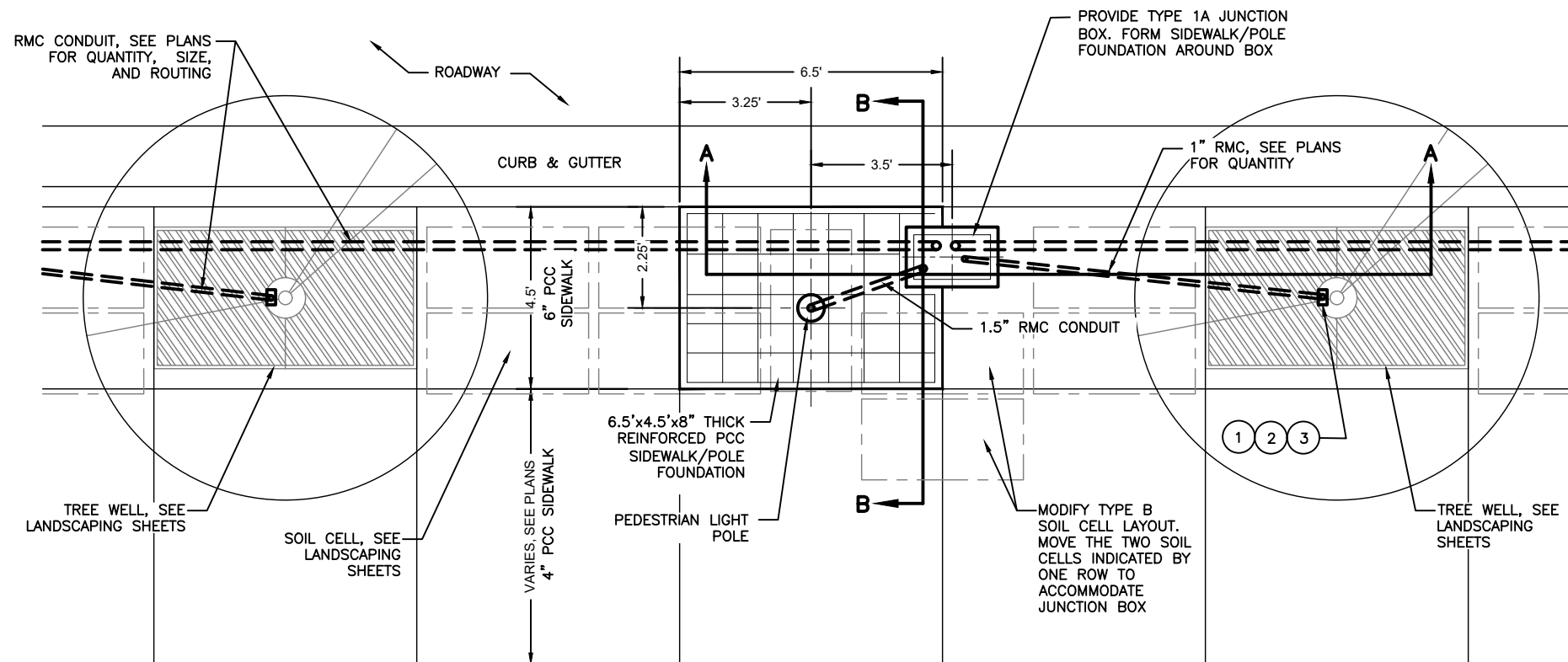
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H39	H53

NOTES:

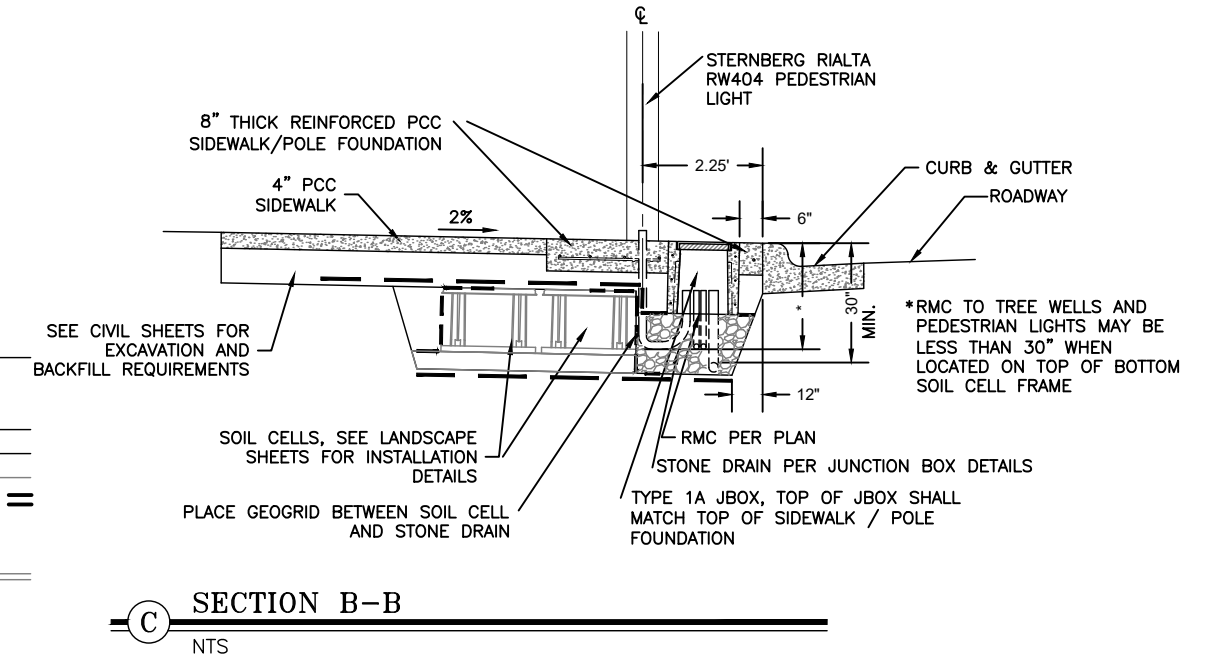
- ONE-GANG, HEAVY-DUTY, CAST ALUMINUM, POWDER COATED, WEATHERPROOF OUTLET BOX WITH LUGS. SIZE FOR ONE OR TWO 1" DIAMETER RMC CONDUITS PER PLAN. PROVIDE A MINIMUM 4 1/8" X 4 1/8" X 2 1/8" SIZED BOX.
- 20A-125V WEATHER-RESISTANT, TAMPER-RESISTANT SMARTLOCK-PRO GFCI RECEPTACLE.
- NEMA 3R RATED, HEAVY-DUTY, CAST ALUMINUM, POWDER COATED WHILE-IN-USE COVER. PROVIDE WITH PADLOCK EYE.
- NEC 6X8X SERIES LR AND LL MOGUL UNILET CONDUIT OUTLET BODIES. BODY SHALL BE HEAVY-DUTY, GALVANIZED STEEL WITH COVER, NEOPRENE GASKET, AND STAINLESS STEEL SCREWS. PROVIDE WITH BUILT IN ROLLERS OR BLUEKOTE TEFLON OR EQUIVALENT INTERNAL COATING. WHEN 2-1" CONDUIT ARE REQUIRED, ORIENT LL AND LR COVERS TO FACILITATE ACCESS.
- 1-5/8" GALVANIZED STEEL, 12 GAUGE, SQUARE CHANNEL. MOUNT TO SIDE OF PCC TREE BRIDGE WITH HEAVY-DUTY GALVANIZED STEEL BRACKET AND FITTINGS. USE HILTI ANCHOR BOLTS OR APPROVED EQUIVALENT TO ANCHOR BRACKET TO TREE BRIDGE.
- GALVANIZED STEEL CONDUIT CLAMP. PROVIDE WITH TWO MOUNTING HOLES OR EQUIVALENT (2-POINTS OF CONTACT WITH CHANNEL).



B SECTION A-A
NTS



A PEDESTRIAN LIGHT POLE / MODIFIED TYPE B SOIL CELL - TREE WELL LAYOUT DETAIL



C SECTION B-B
NTS

PEDESTRIAN POLE DETAIL

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
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DESIGN NOTES:

DESIGN: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 1994 EDITION.

CONSTRUCTION: ADOT&PF 2004 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THESE SPECIFICATIONS.

WIND LOAD: 100 MPH W/ 1.3 GUST FACTOR

MATERIAL PROPERTIES

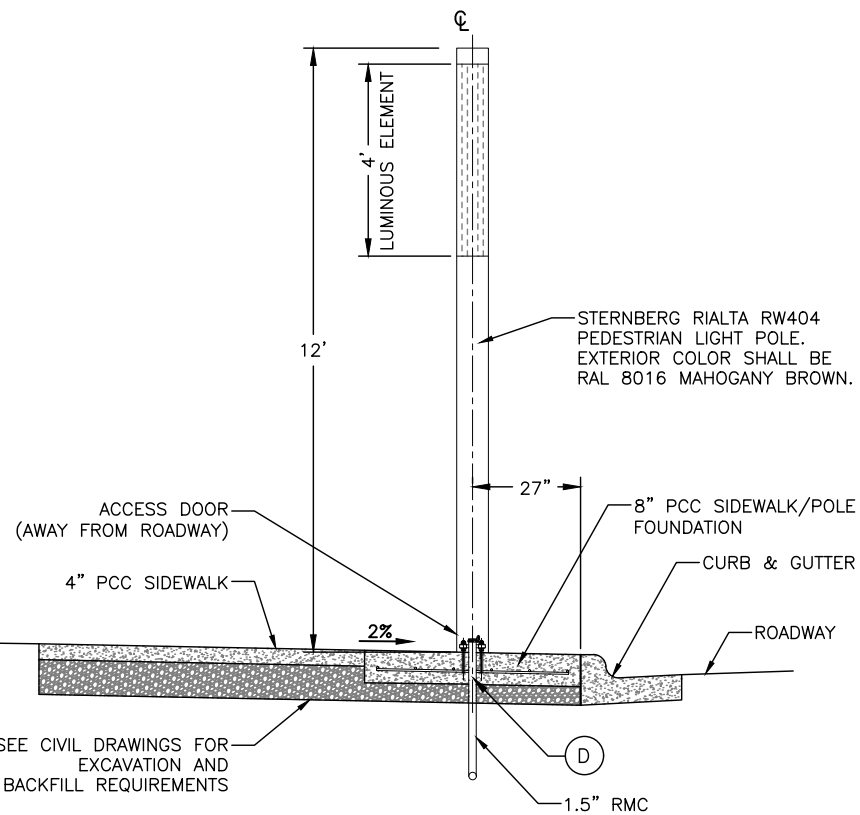
CONCRETE	CLASS A	F'C=5 KSI
REINFORCING STEEL	ASTM A615	FY=60 KSI
ANCHOR BOLTS GALVANIZED FINISH	ASTM F1554 ASTM A153 OR F2329	GRADE 36
HEX NUTS GALVANIZED FINISH	ASTM A563 ASTM F2329	GRADE A
WASHERS GALVANIZED FINISH	ASTM F436 ASTM A153 OR F2329	TYPE I, 38-45 HRC

FOUNDATION NOTES:

- 8" THICK REINFORCED CONCRETE SIDEWALK FOUNDATIONS SHALL BE USED FOR PEDESTRIAN LIGHT POLES.
- PLACE PEDESTRIAN LIGHT POLES AT LOCATIONS INDICATED ON THE PLANS.
- PROVIDE AND INSTALL 5/8"Dx8"Lx2"Cx4"T GALVANIZED STEEL 90° ANCHOR BOLTS WITH AN EMBEDMENT OF 5".
- TERMINATE THE 1.5" DIA. CONDUIT ABOVE THE TOP OF SIDEWALK AS RECOMMENDED BY THE MANUFACTURER.
- ALL FORMWORK, ANCHOR BOLT, AND REINFORCEMENT INSTALLATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO ORDERING AND PLACING CONCRETE.

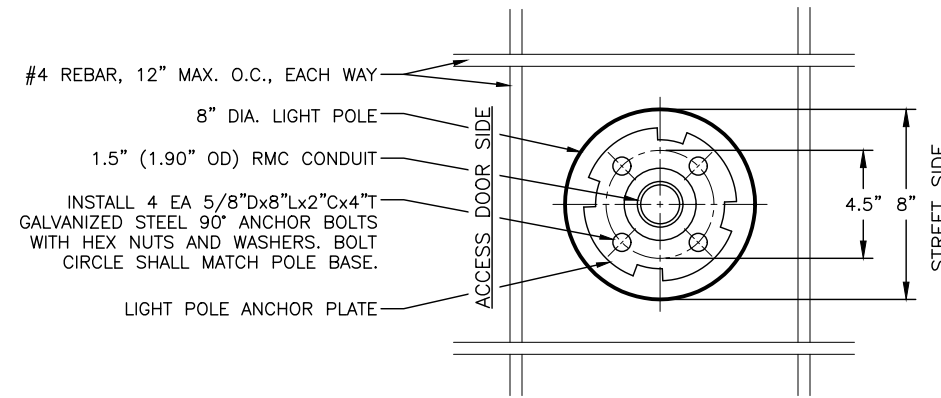
GROUNDING NOTES:

- PROVIDE AND ATTACH #6 AWG GROUND CONDUCTOR TO #4 REBAR WITH IRREVERSIBLE CONNECTION 5 INCHES BELOW TOP OF 8" SIDEWALK.
- FROM REBAR CRIMP CONNECTION, PROTECT AND EXTEND GROUND CONDUCTOR ABOVE TOP OF SIDEWALK, INSIDE OF POLE WITH 2 FEET OF SLACK. CONNECT GROUND CONDUCTOR TO CONDUIT, POLE/ANCHOR PLATE, AND CONDUIT GROUNDING CONDUCTOR.



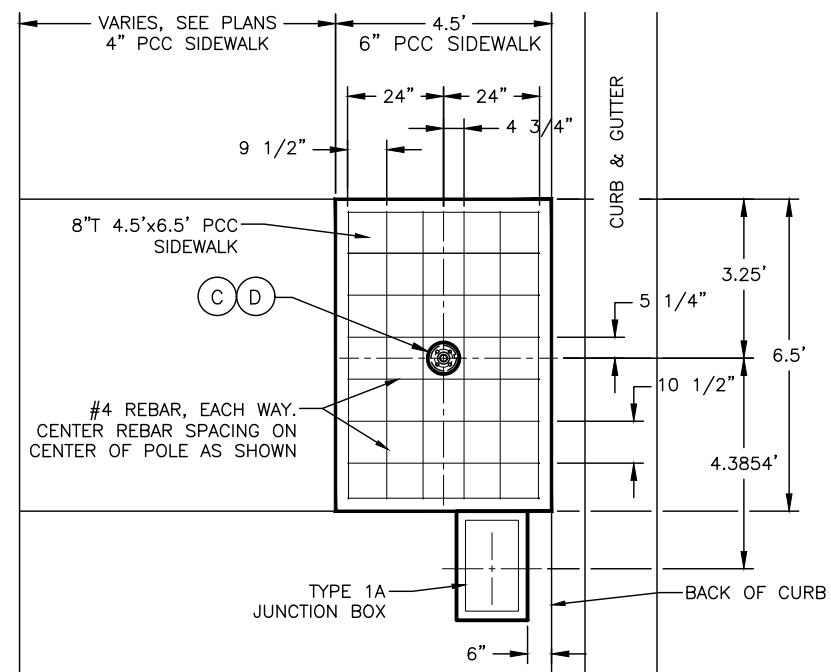
ELEVATION VIEW

B PEDESTRIAN LIGHT POLE DETAIL
NOT TO SCALE



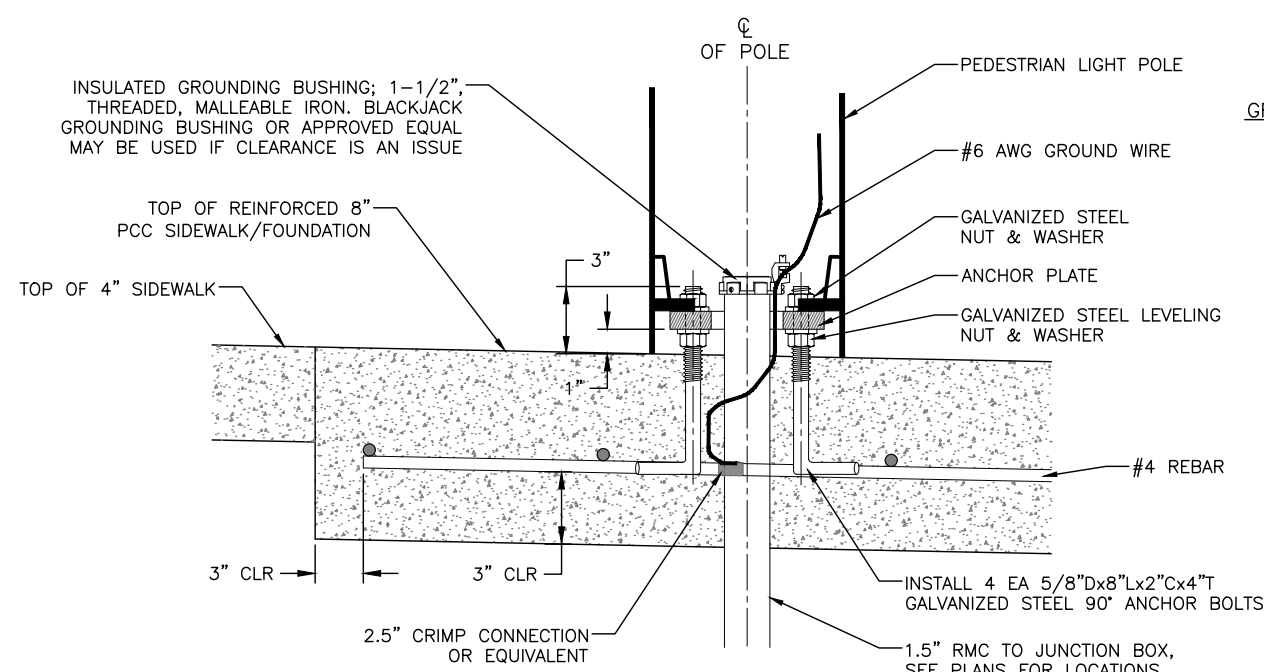
PLAN VIEW

D PEDESTRIAN LIGHT POLE FOUNDATION
NOT TO SCALE



PLAN VIEW

A PEDESTRIAN LIGHT POLE DETAIL
NOT TO SCALE



SECTION VIEW

C PEDESTRIAN LIGHT POLE FOUNDATION
NOT TO SCALE

PEDESTRIAN POLE DETAILS

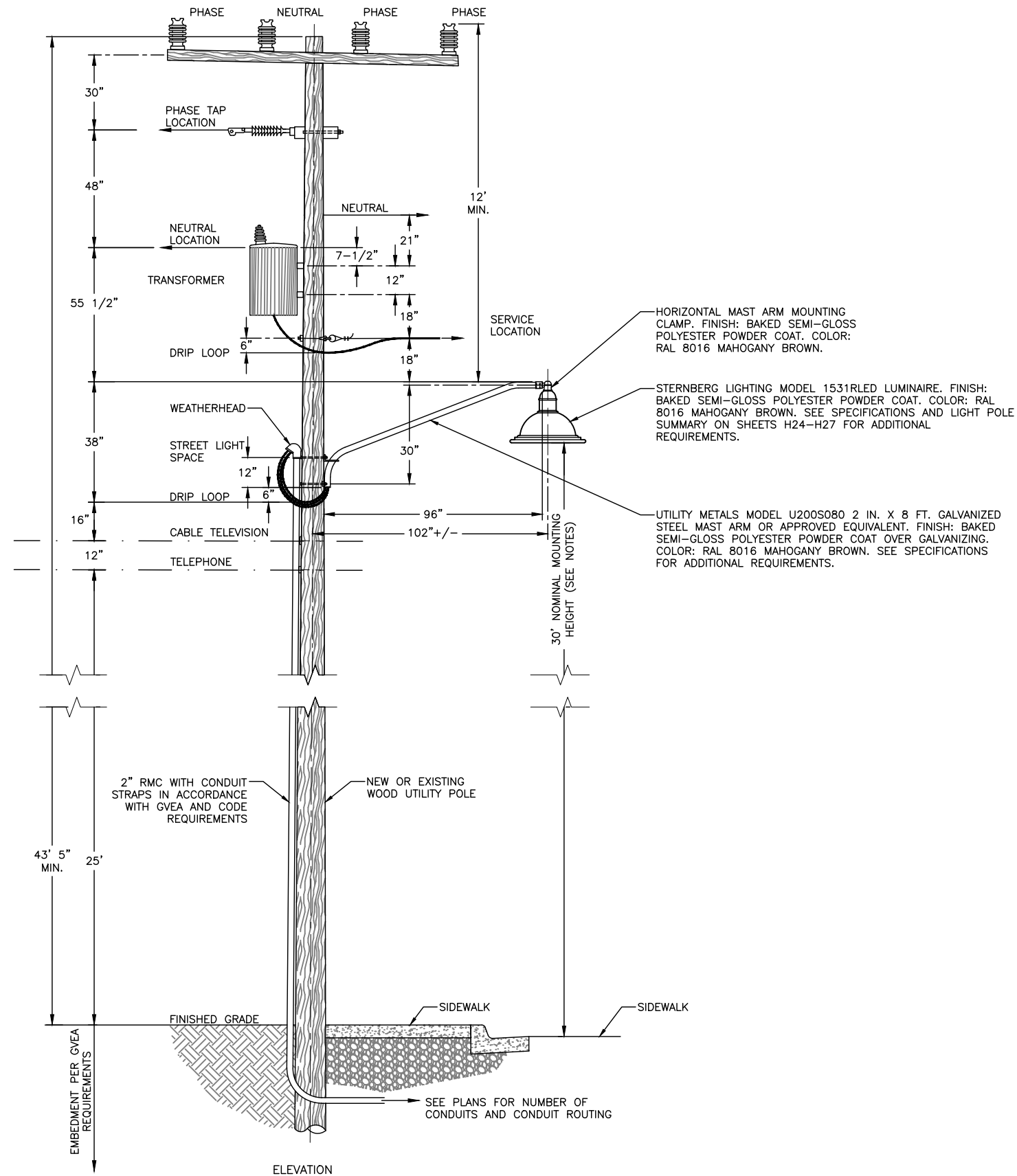
PLANS DEVELOPED BY:
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PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPF\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_H40_ILUM_PED_POLE_DETAILS-H40_Thu_Dec/22/22 11:56am (Bill Paddock) KE#: 00385

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NOTES:

1. AT LOCATIONS WHERE NEW LIGHTING IS MOUNTED ON EXISTING UTILITY POLES WITH LIGHTING, CONTRACTOR SHALL SALVAGE EXISTING LUMINAIRE AND MAST ARM.
2. MOUNT NEW MAST ARM AND LUMINAIRE IN STREET LIGHT SPACE. ADJUST MOUNTING AS NECESSARY TO MAINTAIN CLEARANCE TO OVERHEAD ELECTRIC LINES PER LOCAL CODE, NESC, AND GVEA REQUIREMENTS.

A CBD STREET LIGHT LUMINAIRE MOUNTED ON GVEA JOINT USE UTILITY POLE
NOT TO SCALE

WOOD POLE DETAILS

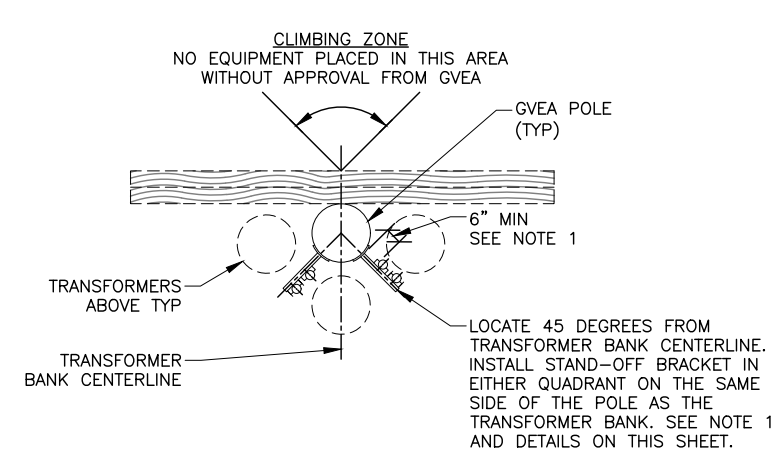
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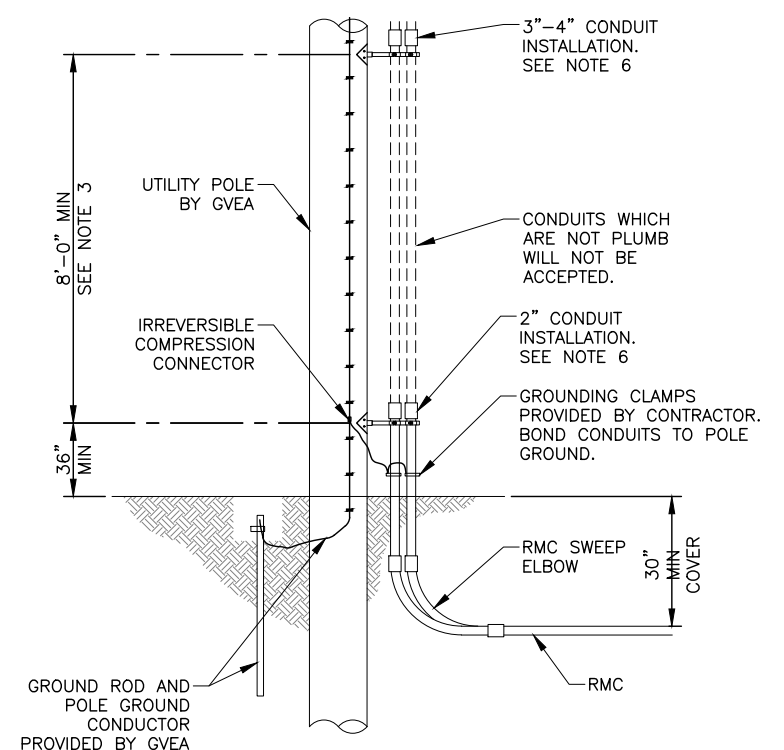
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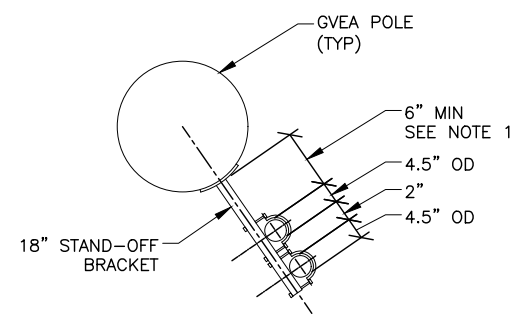
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H42	H53



PLAN VIEW

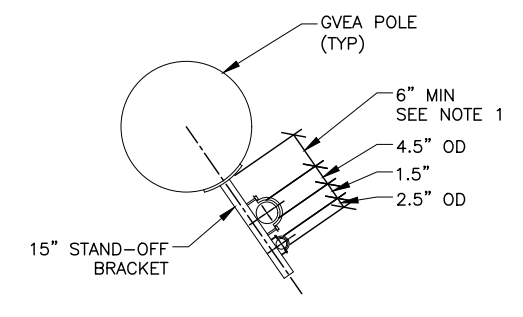


SIDE VIEW



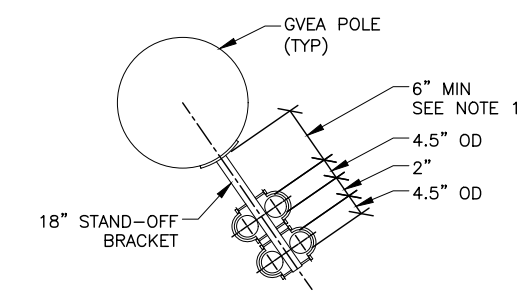
DETAIL 1 (PLAN VIEW)

2 EA 4" CONDUIT ON ONE SIDE OF THE STAND-OFF BRACKET



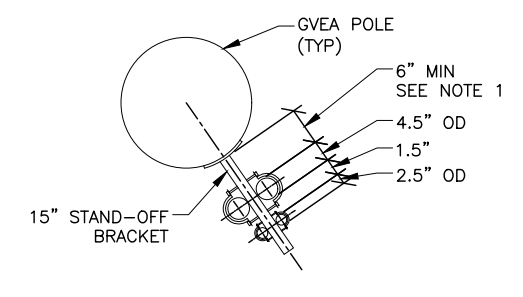
DETAIL 2 (PLAN VIEW)

1 EA 4" AND 1 EA 2" CONDUITS ON ONE SIDE OF THE STAND-OFF BRACKET



DETAIL 3 (PLAN VIEW)

2 EA 4" CONDUITS ON TWO SIDES OF THE STAND-OFF BRACKET



DETAIL 4 (PLAN VIEW)

1 EA 4" AND 1 EA 2" CONDUITS ON TWO SIDES OF THE STAND-OFF BRACKET

SECONDARY RISER BUILD PROVISIONS

#2 AWG - 3/0 AWG

- CONTRACTOR SHALL INSTALL FIRST 3 FEET OF RISER ON PRIMARY POLE FOR INSPECTION BY GVEA.
- CONTRACTOR SHALL PROVIDE SUFFICIENT AMOUNT OF CONDUIT (RMC OR IMC) TO REACH BASE OF TRANSFORMER, AS WELL AS STAND-OFF BRACKETS, PIPE CLAMPS, GROUND CLAMPS, LAG BOLTS, AND WEATHER HEAD.
- CONTRACTOR SHALL PROVIDE SERVICE CONDUCTORS AND INSTALLATION TO THE DESIGNATED GVEA POLE. LEAVE SUFFICIENT WIRE FOR TRANSFORMER CONNECTION COILED AT BASE OF POLE.
- GVEA WILL INSTALL REMAINDER OF RISER AND WIRE.

4/0 AWG AND LARGER

- GVEA WILL PULL WIRE WITH CONTRACTOR ASSISTANCE. CONTRACTOR SHALL PROVIDE SERVICE CONDUCTORS.
- GVEA WILL PROVIDE PULLING EQUIPMENT TO INCLUDE PULLING HARNESS, LARGE DIAMETER TRAVELER AND PULL ROPE.
- CONTRACTOR SHALL INSTALL FIRST 3 FEET OF RISER ON PRIMARY POLE WITH JET LINE PULLED IN.
- CONTRACTOR SHALL PROVIDE SUFFICIENT AMOUNT OF CONDUIT (RMC OR IMC) TO REACH BASE OF TRANSFORMER, AS WELL AS STAND-OFF BRACKETS, PIPE CLAMPS, GROUND CLAMPS, LAG BOLTS, RIGID SWEEPS, AND WEATHER HEAD.
- IF RUN IS MORE THAN 75 FEET CONTRACTOR SHALL PROVIDE WIRE ON INDIVIDUAL REELS AND REEL STANDS.

GENERAL NOTE:

1. SECONDARY CONDUIT RISER DETAILS SHOWN ON THIS SHEET ARE BASED ON GVEA STANDARDS WITH CLARIFICATIONS FOR THIS PROJECT. PROVIDE THE UTILITY SERVICE INSTALLATION ("BY CONTRACTOR") AS REQUIRED IN COMPLIANCE WITH THE SERVING UTILITY STANDARDS.

NOTES:

1. 6" MINIMUM DISTANCE FROM POLE IS REQUIRED. CONDUIT INSTALLATION WITH LESS THAN 6" CLEARANCE WILL NOT BE ACCEPTED. ONLY ONE SET OF STAND-OFF BRACKETS WILL BE ALLOWED ON A POLE. CONTACT GVEA'S NEW CONSTRUCTION OFFICE FOR INFORMATION ABOUT ADDING NEW SERVICES TO A POLE WITH EXISTING RISERS.
2. MINIMUM SIZED STAND-OFF BRACKET SHALL BE 15". STAND-OFF BRACKET DETAILS NUMBER 1 THROUGH 4 SHOWS THE MAXIMUM NUMBER OF CONDUITS AND CONDUIT SIZES ALLOWED ON 15" AND 18" STAND-OFF BRACKETS.
3. THE INITIAL SECTION OF CONDUIT SHALL BE ARRANGED SUCH THAT THERE IS NOT LESS THAN 8' BETWEEN THE TWO LOWEST BRACKETS, AS SPECIFIED IN NESC 217.A.2.C.
4. IF THE NUMBER OF CONDUITS NEEDED ON A POLE EXCEED THAT SHOWN IN DETAILS 1 THROUGH 4, THEN AT GVEA'S OPTION, AN EXISTING POLE MOUNTED TRANSFORMER BANK WILL BE REPLACED BY A PAD MOUNTED TRANSFORMER AND ALL EXISTING SERVICES, IF APPLICABLE, FED BY THE POLE MOUNTED TRANSFORMER BANK WILL BE RE-FED FROM THE PAD MOUNTED TRANSFORMER. THE MAXIMUM SIZE POLE MOUNTED THREE-PHASE TRANSFORMER BANK IS 225kVA.
5. ITEMS ON THIS SHEET ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
6. ALL CONDUIT SHALL BE STUBBED OUT OF GROUND 3' FOR INSPECTION. CONDUITS WHICH ARE NOT PLUMB WILL NOT BE ACCEPTED.

UTILITY POLE SECONDARY RISER DETAILS

ELECTRICAL DETAILS SECONDARY RISER AT UTILITY POLE

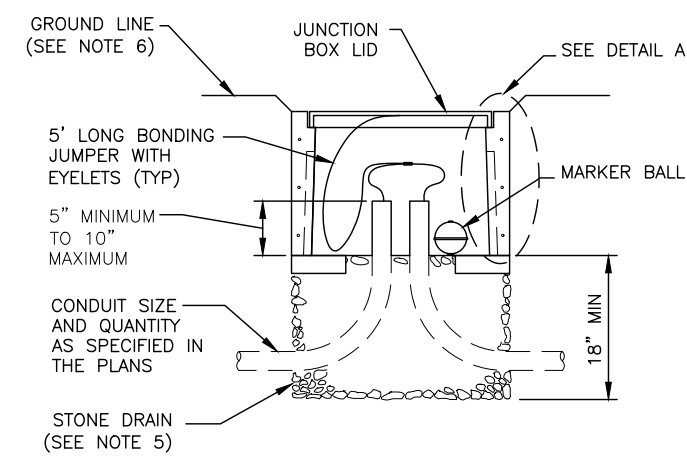
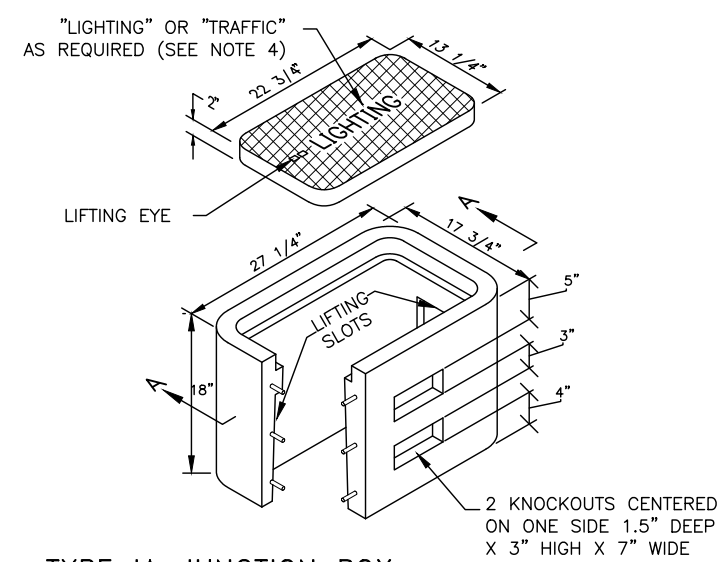
PLANS DEVELOPED BY:
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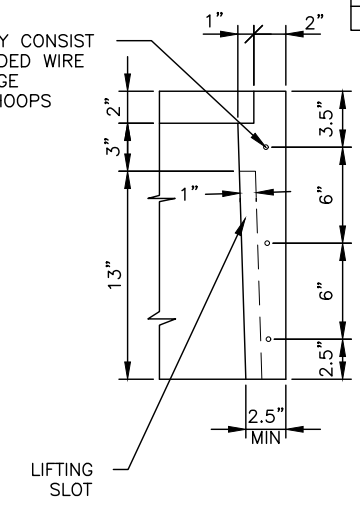
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 (Bill Paddock) KE# 00385

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REINFORCEMENT MAY CONSIST OF: A 9 GAGE WELDED WIRE FRAME OR 3-6 GAGE HORIZONTAL WIRE HOOPS



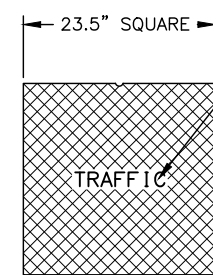
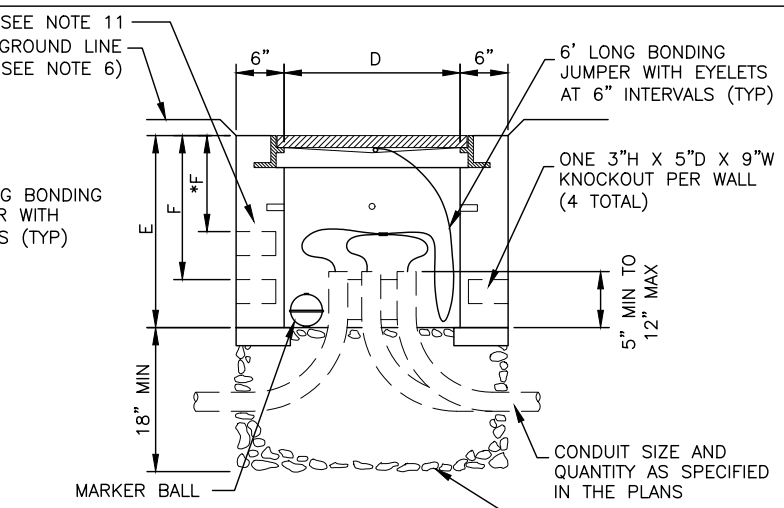
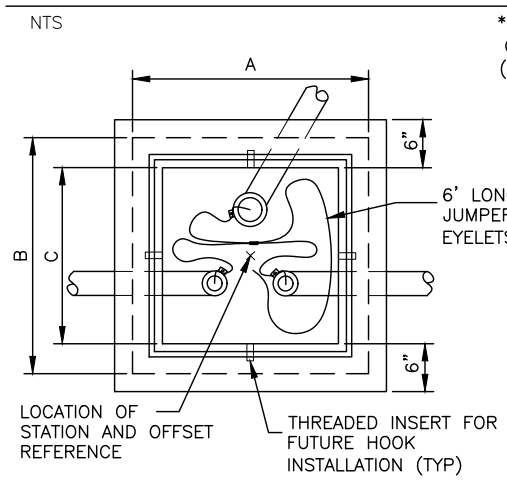
TYPE IA JUNCTION BOX

SECTION A-A

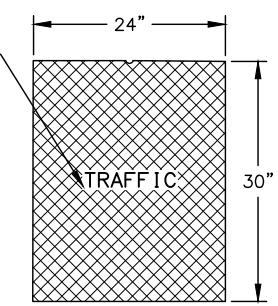
DETAIL A

NOTES:

1. AVOID INSTALLING TYPE IA JUNCTION BOXES IN DRIVEWAYS OR IN LOCATIONS SUBJECT TO USE BY HEAVY TRUCKS. INSTALL JUNCTION BOXES ONLY AT THE LATERAL LOCATIONS ALLOWED IN SUBSECTION 660-3.04.
2. FURNISH TYPE II, III AND IV JUNCTION BOXES WITH CAST IRON FRAMES AND LIDS THAT WEIGH A MINIMUM OF 210 POUNDS AND ARE RATED FOR HEAVY TRAFFIC LOADS IN COMPLIANCE WITH AASHTO M306. FURNISH TYPE IA JUNCTION BOXES WITH CAST IRON LIDS THAT WEIGH A MINIMUM OF 50 POUNDS.
3. CONSTRUCT JUNCTION BOXES ACCORDING TO SECTION 501 USING CLASS A CONCRETE. REINFORCE TYPE IA JUNCTION BOXES AS SHOWN. SYNTHETIC STRUCTURAL FIBER-REINFORCED CONCRETE THAT MEETS ASTM C 1116 AND CONTAINS FIBER IN PROPORTIONS AS RECOMMENDED BY THE FIBER MANUFACTURER MAY BE ADDED FOR STRENGTH.
4. FOR JUNCTION BOXES THAT CONTAIN ILLUMINATION CONDUCTORS EXCLUSIVELY, FURNISH LIDS WITH THE WORD LIGHTING INSCRIBED INTO THEM. FOR OTHER JUNCTION BOXES, FURNISH LIDS WITH THE WORD TRAFFIC INSCRIBED INTO THEM.
5. UNDER JUNCTION BOXES, INSTALL STONE DRAINS THAT CONSIST OF POROUS BACKFILL MATERIAL CONFORMING TO SUBSECTION 703-2.10.
6. SET THE TOPS OF JUNCTION BOXES WITH THE FOLLOWING DIMENSIONS BELOW THE FINISHED SURROUNDING SURFACE:
 1" IN PAVED MEDIANS AND ADJACENT TO PEDESTRIAN FACILITIES
 3/16" IN PEDESTRIAN FACILITIES
 2" IN ALL OTHER AREAS
7. BOND JUNCTION BOX LIDS TO THE SYSTEM OF EQUIPMENT GROUNDING CONDUCTORS ACCORDING TO SUBSECTION 660-3.06. ATTACH BONDING JUMPERS TO THE JUNCTION BOX LIDS WITH STAINLESS STEEL HARDWARE.
8. INSTALL A 1/2" THICK PREFORMED BITUMINOUS JOINT MATERIAL AROUND JUNCTION BOXES INSTALLED IN PORTLAND CEMENT CONCRETE WALKWAYS.
9. INSTALL AN ELECTRONIC MARKER BALL IN ALL JUNCTION BOXES PER SUBSECTION 660-3.04.
10. PROVIDE CONDUIT GROUNDING BUSHINGS AND BOND TO 3/4"x10' COPPER CLAD GROUND ROD WITH #8 BARE COPPER BONDING WIRE (AS REQUIRED).
11. WHERE MODIFIED TYPE II JUNCTION BOXES ARE REQUIRED FOR DETECTOR LOOP TAIL INSTALLATIONS, ADD ONE(1) ADDITIONAL 5" DEEP X 3" HIGH X 18" WIDE KNOCKOUT 12" BELOW TOP OF JUNCTION BOX.



"LIGHTING" OR "TRAFFIC" AS REQUIRED (SEE NOTE 4)



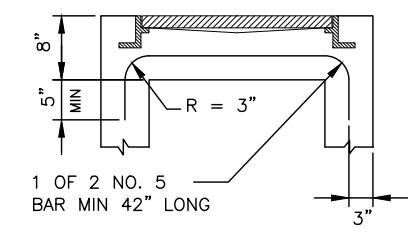
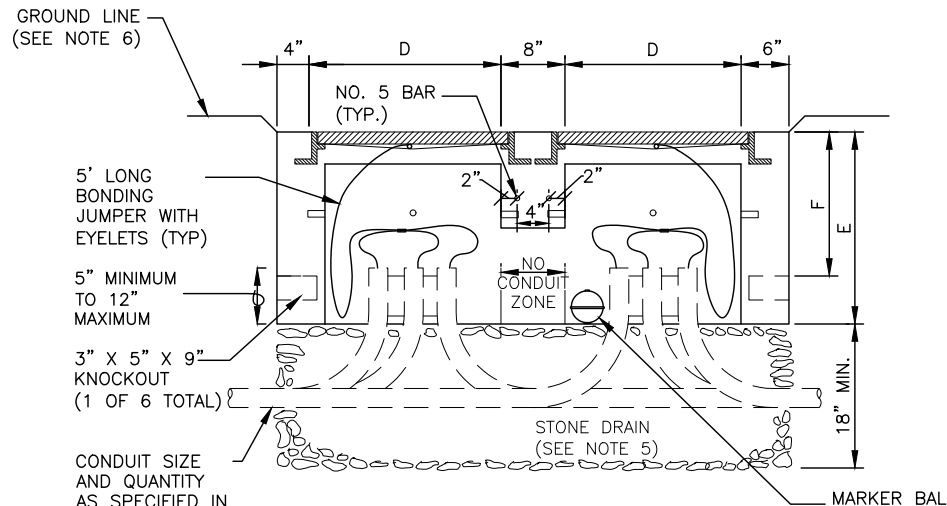
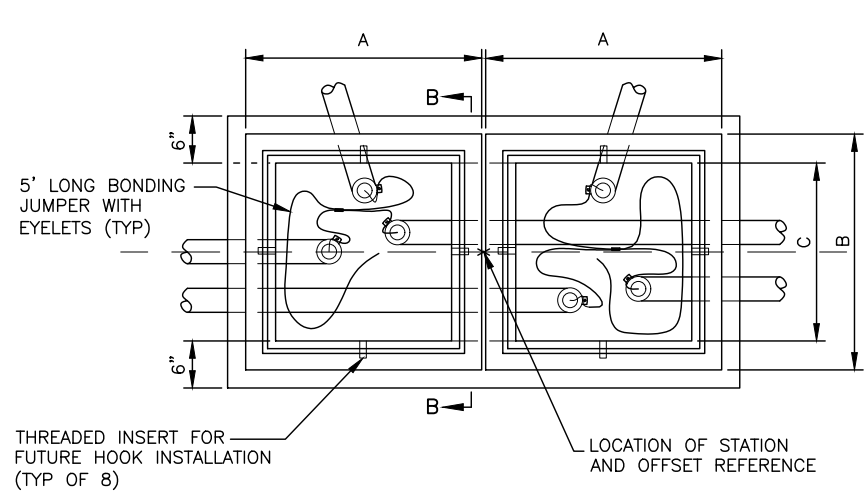
LID FOR TYPE II, MOD. TYPE II & TYPE III J-BOX

PLAN

ELEVATION

NTS

NTS *APPLICABLE TO MODIFIED TYPE II JUNCTION BOX



SECTION B-B

PLAN

ELEVATION (TYPE III LAYOUT DEPICTED)

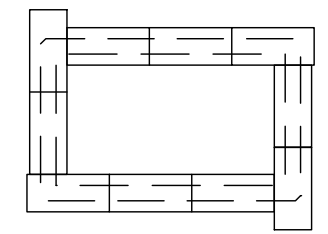
TYPE III/IV JUNCTION BOX

NTS

NTS

JUNCTION BOX DETAILS

J-BOX TYPE	DIMENSIONS					
	A (MAX.)	B (MAX.)	C (MIN.)	D (MIN.)	E (MIN.)	F
II	29 1/2"	29 1/2"	22"	22"	24"	18"
MOD. II	29 1/2"	29 1/2"	22"	22"	24"	12"
III	29 1/2"	29 1/2"	22"	22"	24"	18"
IV	30"	36"	30"	24"	30"	18"



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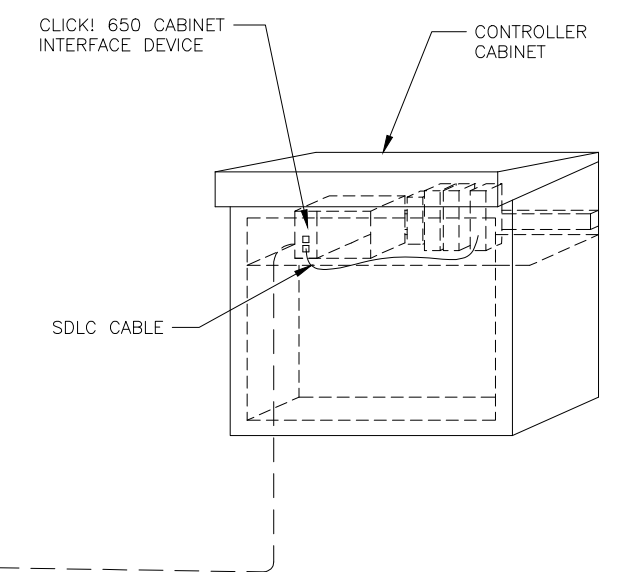
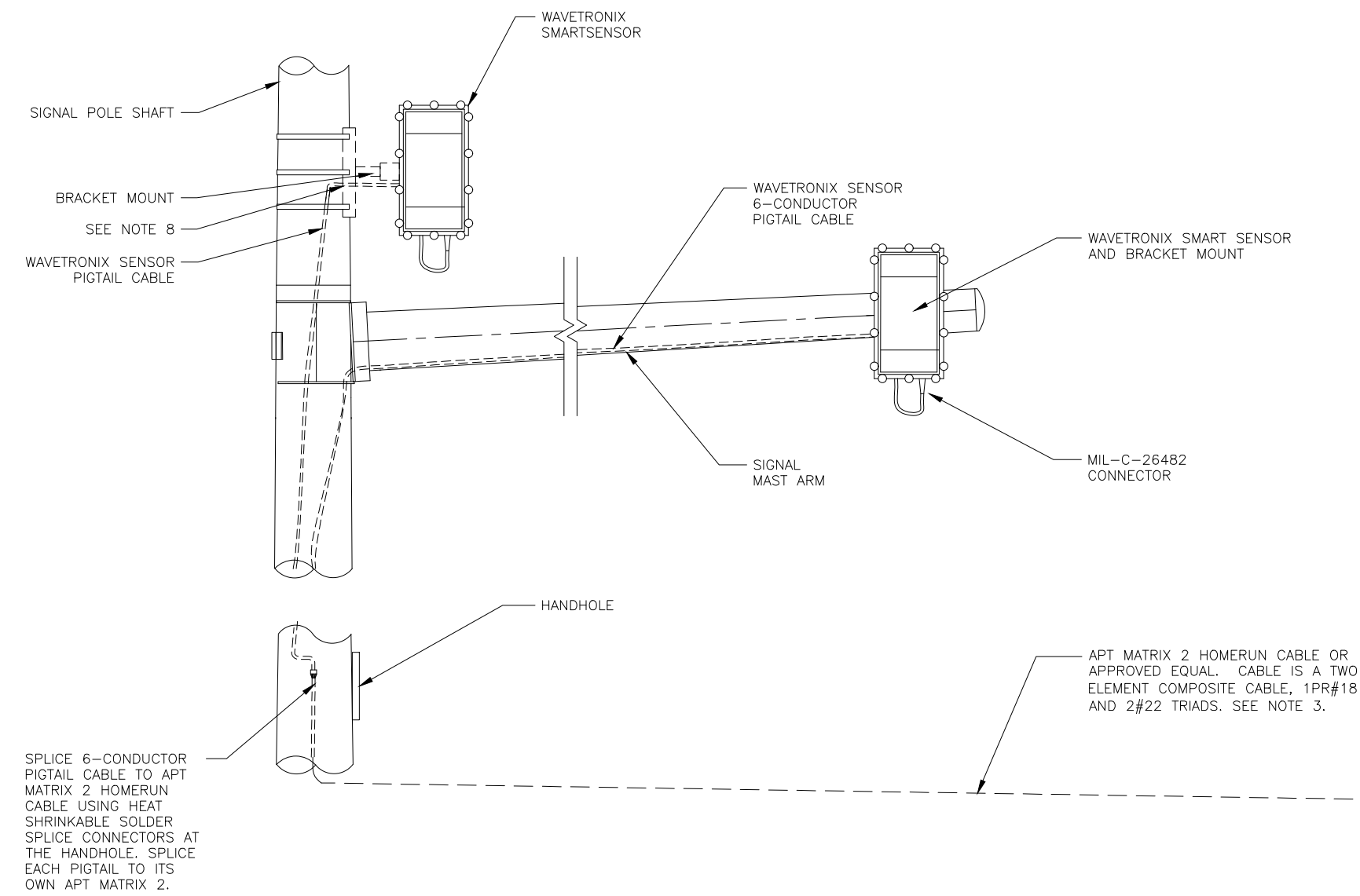
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 (Bill Paddock) KE#: 00385

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RADAR INSTALLATION NOTES:

1. PROTECT CABLE ENDS FROM MOISTURE AT ALL TIMES.
2. PULL CABLE IN ACCORDANCE WITH SECTION 660 OF THE SPECIAL PROVISIONS. PULL CABLE SO THAT THERE IS SUFFICIENT LENGTH TO REACH THE TOP OF THE CONTROLLER CABINET. CABLES ARE TO BE PULLED WITHOUT CONNECTORS ATTACHED. WHEN CABLE HAS BEEN PULLED TO FINAL LOCATIONS INSTALL AND MAKE FINAL CONNECTIONS.
3. CABLE RUNS ARE TO BE MADE CONTINUOUS WITHOUT SPLICES.
4. CABLE WITH DAMAGED INSULATION, OR THAT HAS BEEN CRIMPED OR BENT BEYOND THE MINIMUM BEND RADIUS MUST BE REPLACED AT CONTRACTORS EXPENSE.
5. THE MINIMUM BEND RADIUS SHALL NOT EXCEED MANUFACTURERS RECOMMENDATIONS.
6. ENSURE ADEQUATE LENGTH OF EACH CABLE TO ALLOW WORK ON THE ENDS OF THE CABLE IN THE CONTROLLER CABINET, AT THE POLE MOUNT ENCLOSURE AND RADAR MOUNTING LOCATION.
7. MOUNT THE RADAR AT THE LOCATION STATED IN THE PLANS. PLACEMENT MAY BE ADJUSTED BY THE ENGINEER TO ALLOW FOR BETTER AIMING OF THE RADAR OR TO AVOID OTHER HAZARDS.
8. INSTALL WATERTIGHT RUBBER GROMMETS WHERE CABLE PASSES THROUGH THE POLE.
9. FURNISH ONLY NEW EQUIPMENT OF THE BRAND AND TYPE LISTED OR ITS APPROVED EQUAL. PROVIDE AT NO ADDITIONAL COST ALL NECESSARY DEVICES, WIRES, BRACKETS/HARDWARE ETC. TO PROVIDE A FULLY FUNCTIONING RADAR DETECTION SYSTEM.



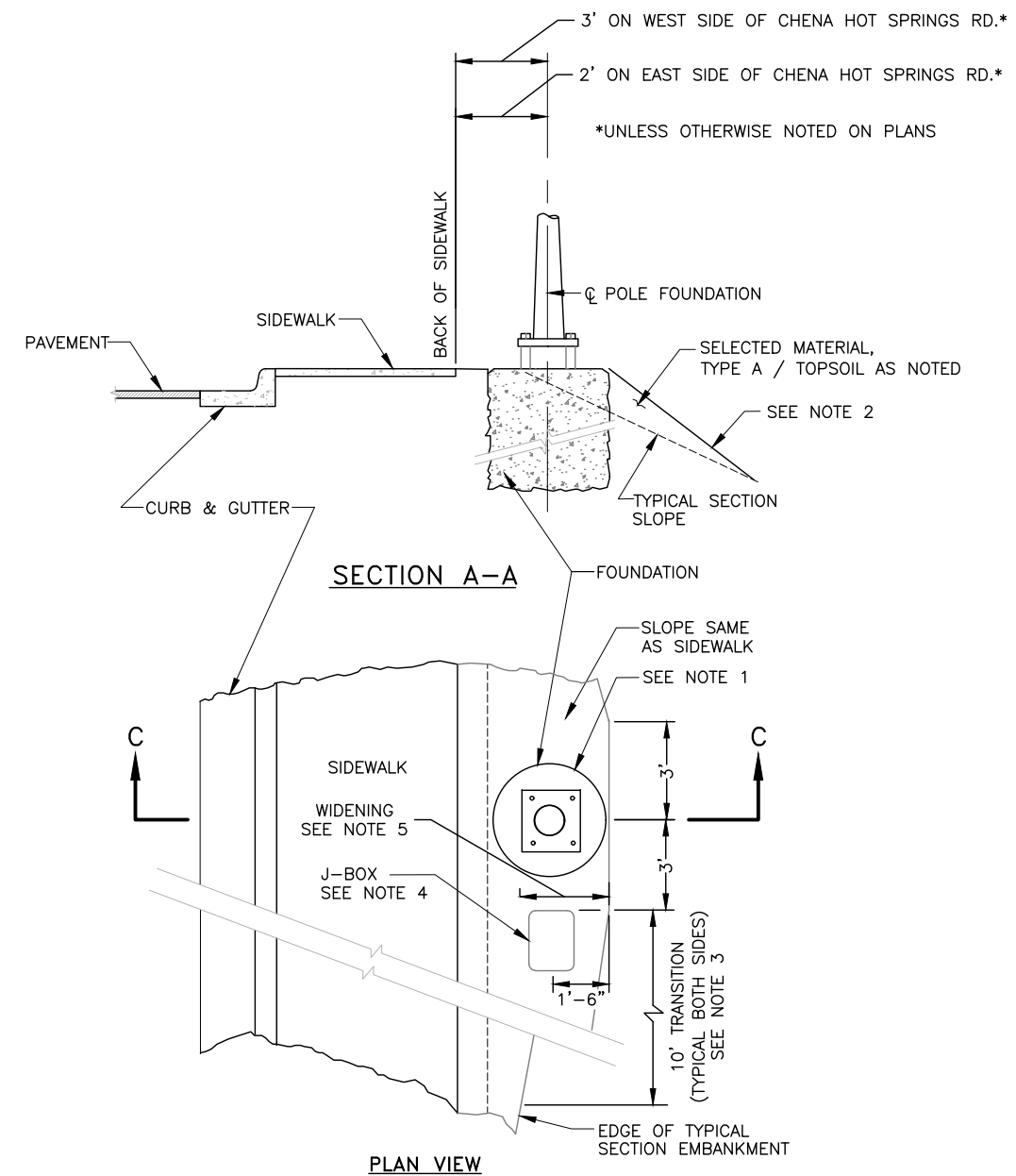
RADAR INSTALLATION DETAIL
NTS

RADAR DETAILS

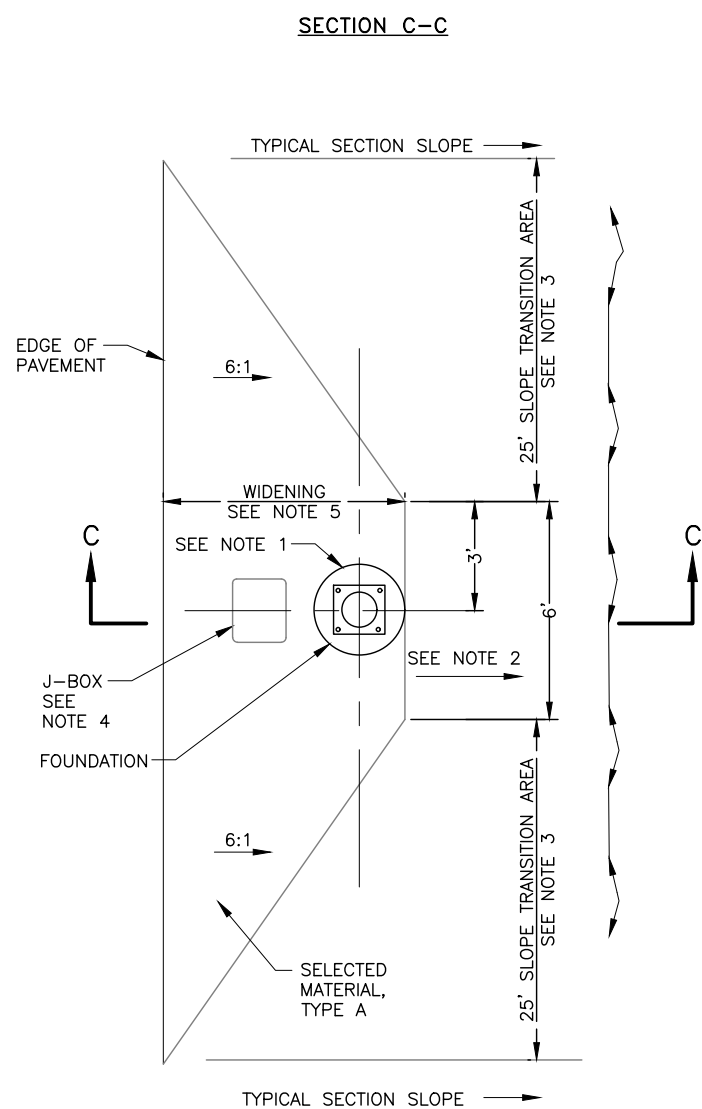
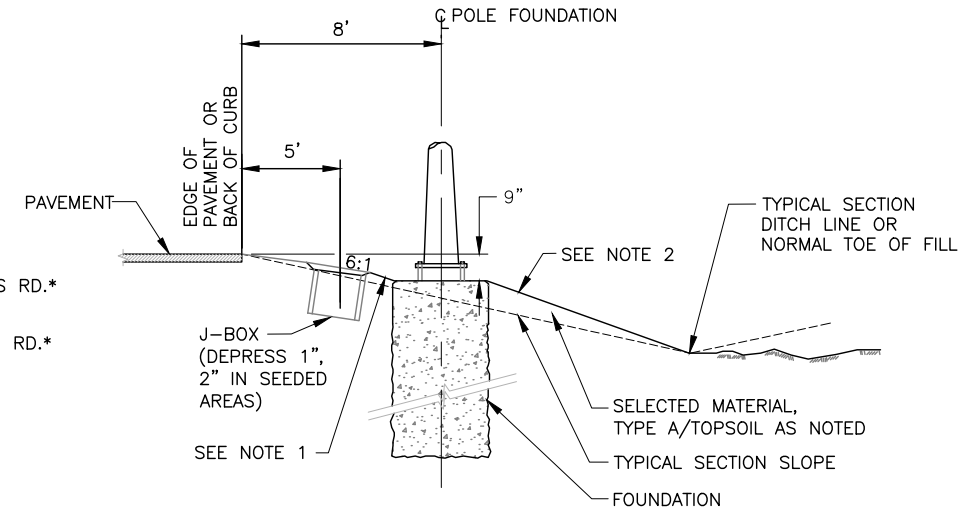
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 (Bill Paddock) KE# 00385

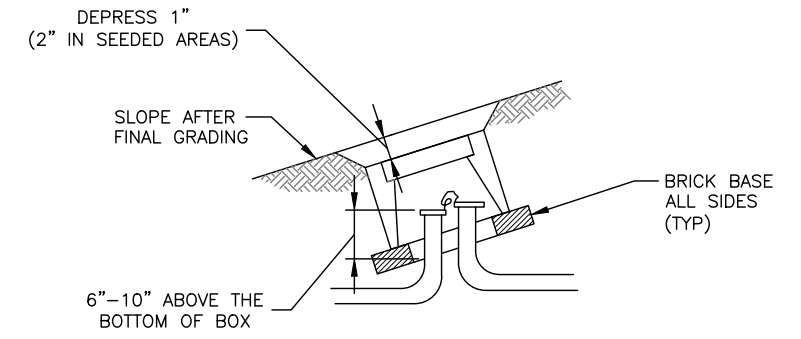
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LIGHT POLE WIDENING DETAIL "A"
(USE WHEN POLE IS LOCATED OFF BACK OF SIDEWALK)



LIGHT POLE WIDENING DETAIL "C"
(USE WHEN POLE IS LOCATED OFF SHOULDER)



TYPE IA J-BOX INSTALLATION ON SLOPE

LIGHT POLE WIDENING NOTES:

1. WARP SLOPE TO TOP CIRCUMFERENCE OF POLE FOUNDATION.
2. SLOPE FROM TOP EDGE OF POLE FOUNDATION TO TYPICAL SECTION DITCHLINE OR NORMAL TOE OF FILL. NO STEEPER THAN 2:1.
3. WHEN THE TYPICAL SECTION SLOPE IS STEEPER THAN 2:1 USE 35' FOR THE SLOPE TRANSITION AREA.
4. DEPRESS JUNCTION BOX 1" BELOW SURFACE. DEPRESS 2" IN SEEDED AREAS.
5. WIDENING SHALL BE CONSTRUCTED PRIOR TO POURING FOUNDATION.

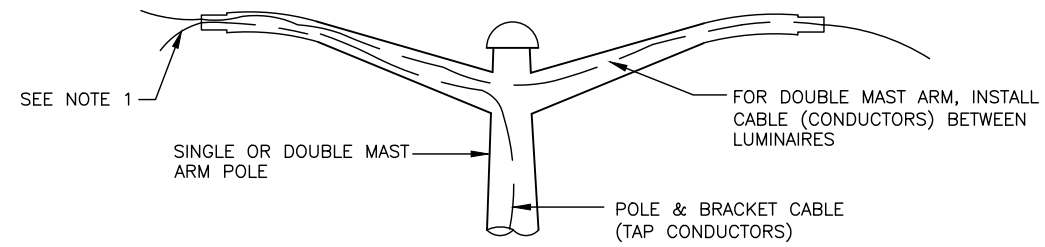
LIGHTING AND JUNCTION BOX DETAILS

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

**12/22/2022
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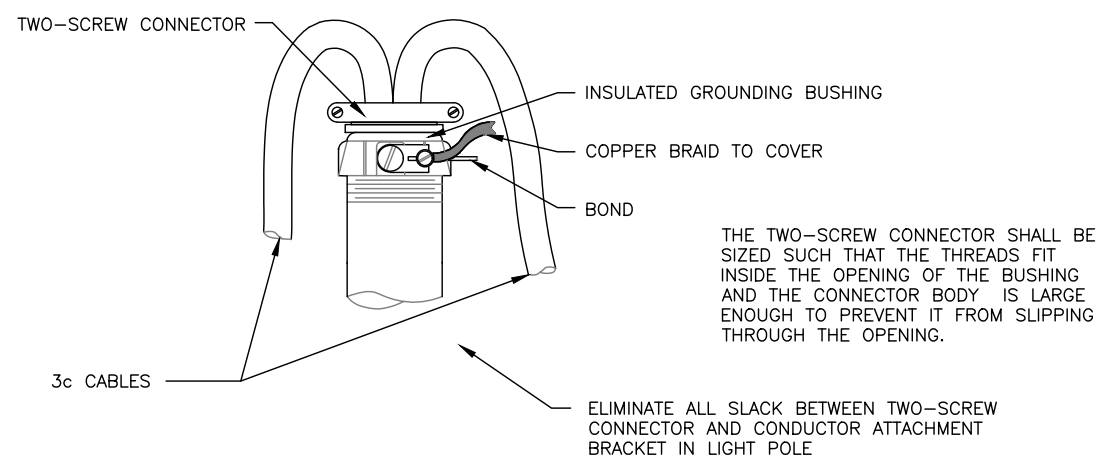
12/22/2022

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H46	H53

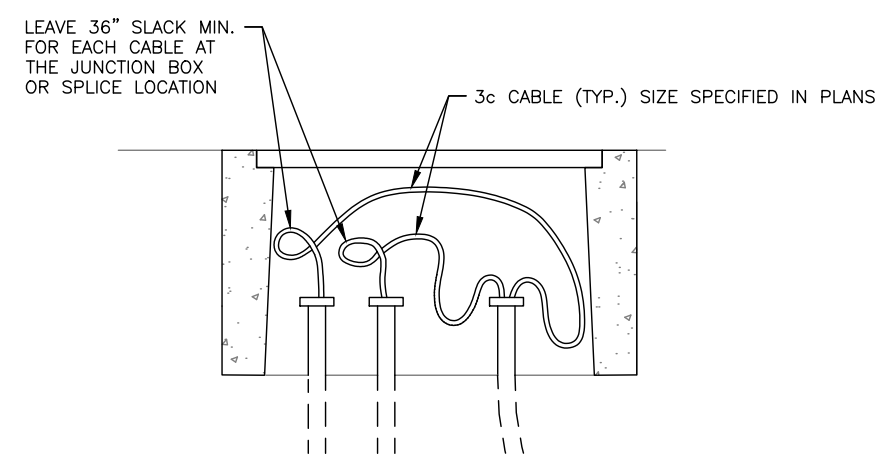


NOTE:
 1. INSTALL 2"x1" REDUCING WASHER AND 1" CONNECTOR TO SECURE CONDUCTORS AT THE END OF THE MAST ARM.

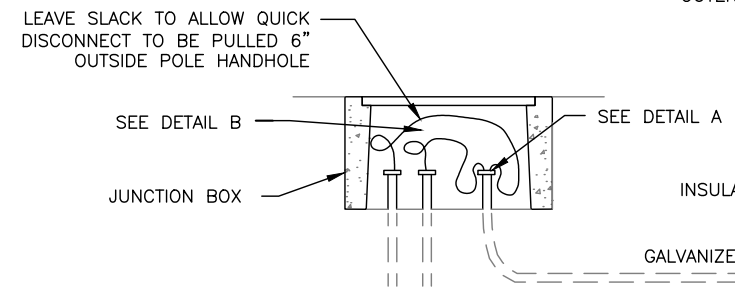
LIGHT STANDARD MAST ARM WIRING DETAIL
 NTS



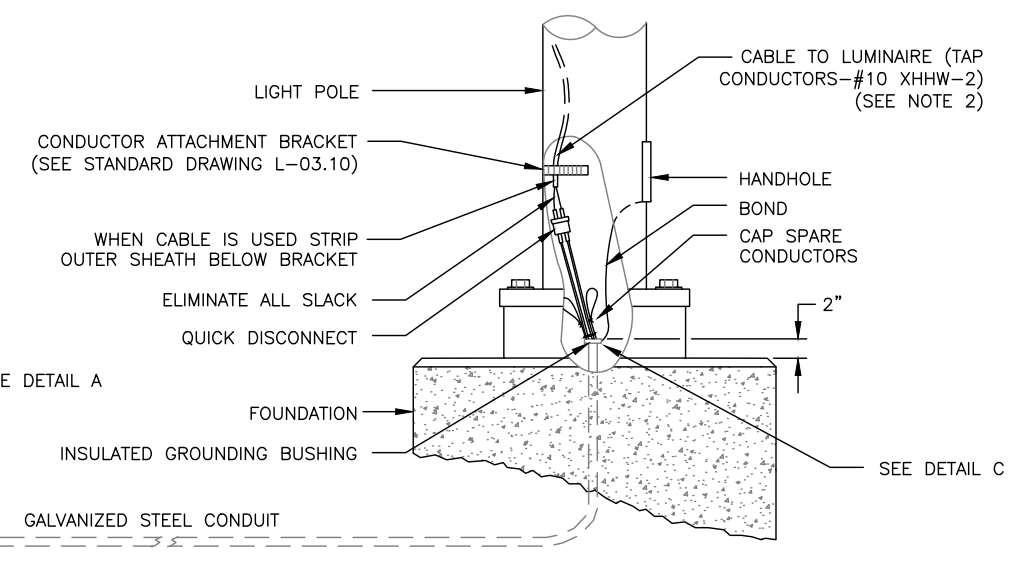
DETAIL A



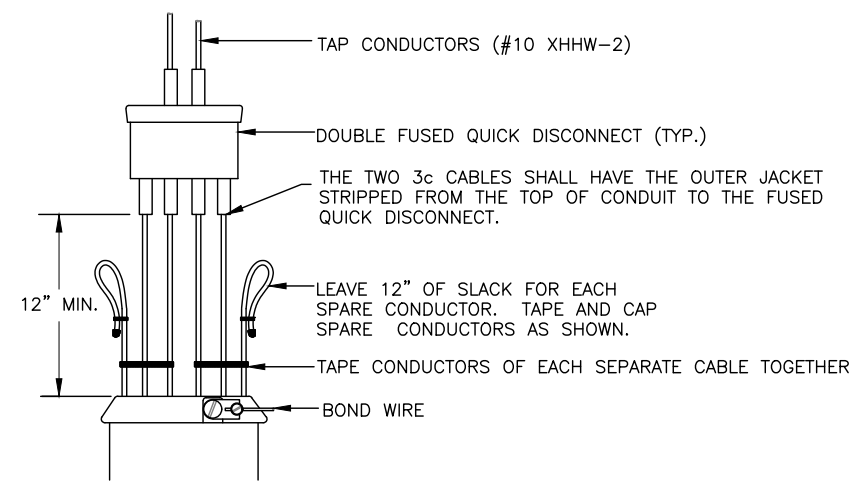
DETAIL B



DETAIL C



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



LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS
 NTS

LIGHT SYSTEM POLE AND JUNCTION BOX DETAILS

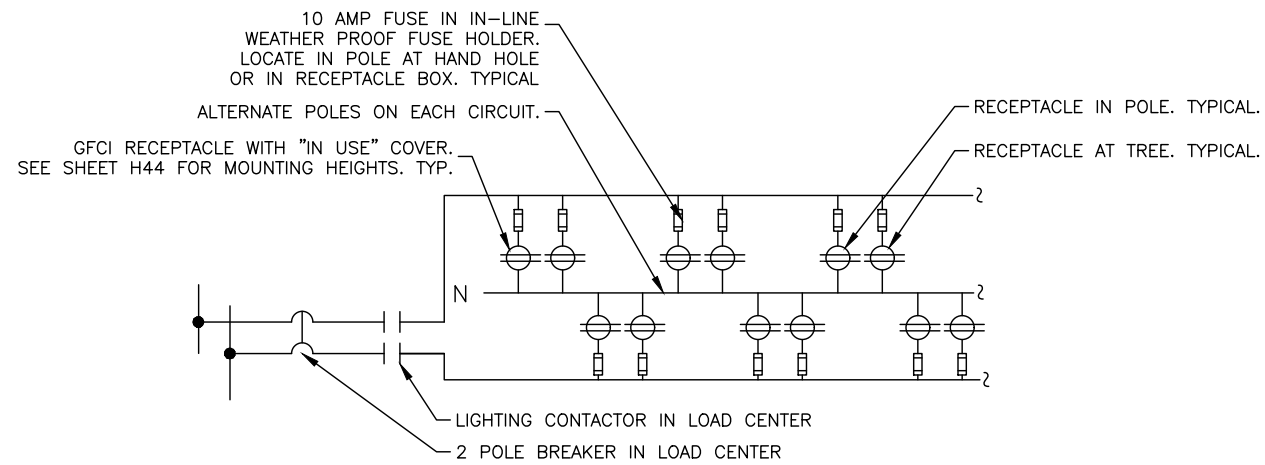
PLANS DEVELOPED BY:
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 Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_H46_ILLUM & INTCONT DETAILS-H46_Thu, Dec/22/22 11:57am KE#: 00385 (Bill Paddock)

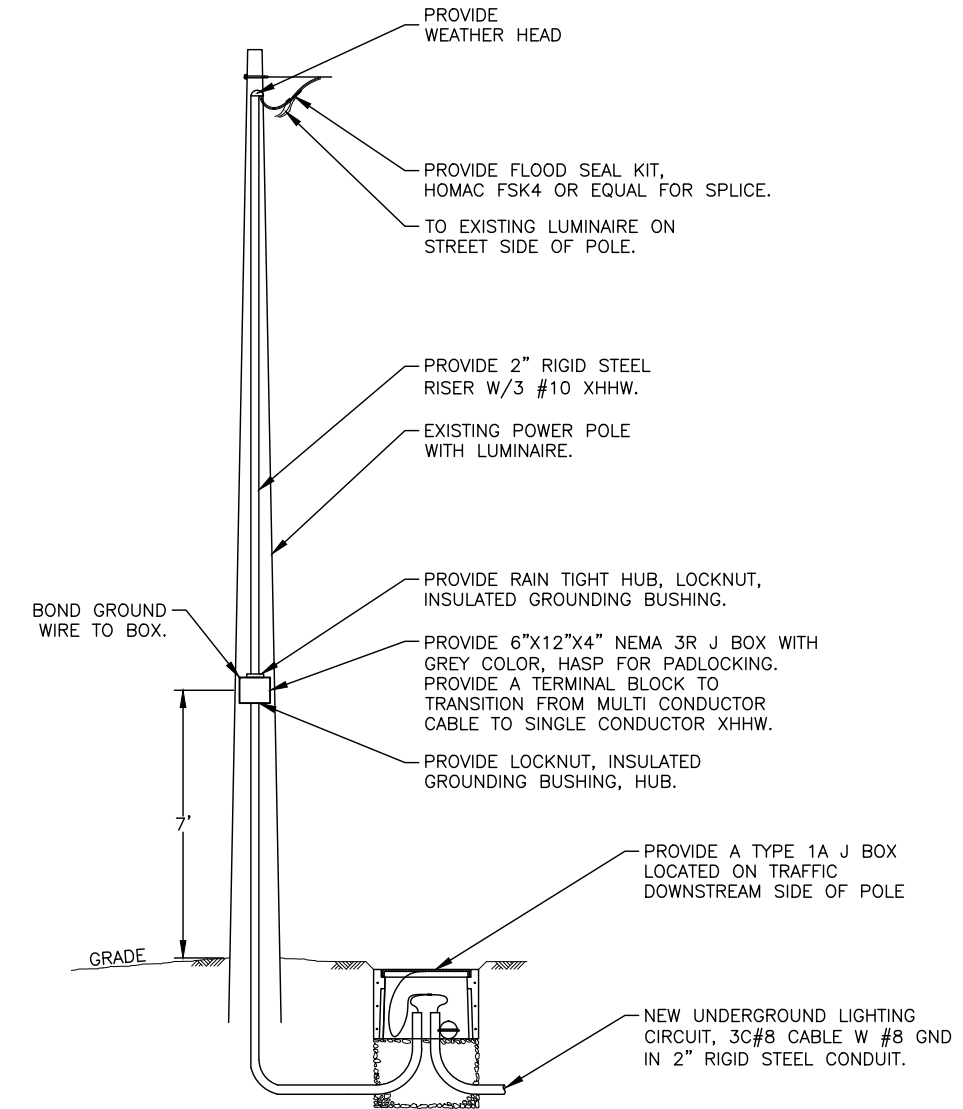
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(Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H47	H53



POLE MOUNTED AND TREE WELL RECEPTACLE WIRING DIAGRAM
NTS



TYPICAL TRANSITION BETWEEN AERIAL & UNDERGROUND LIGHTING CIRCUIT
NTS

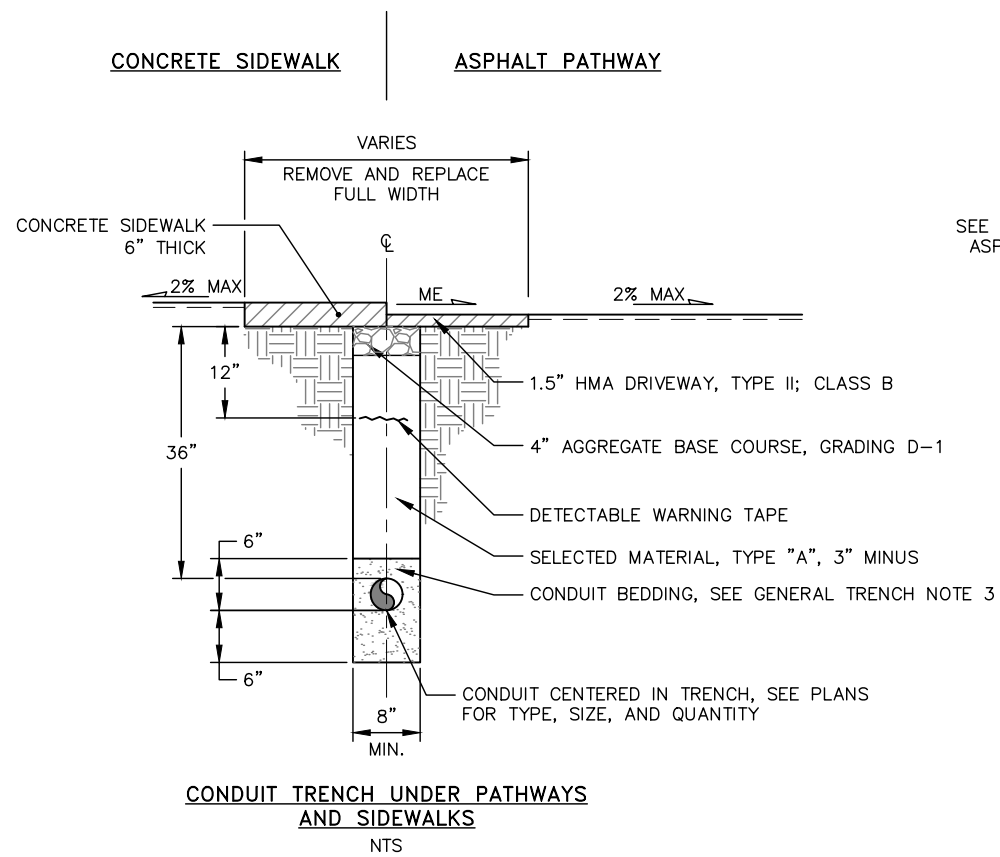
ILLUMINATION AND INTERCONNECT DETAILS

PLANS DEVELOPED BY:
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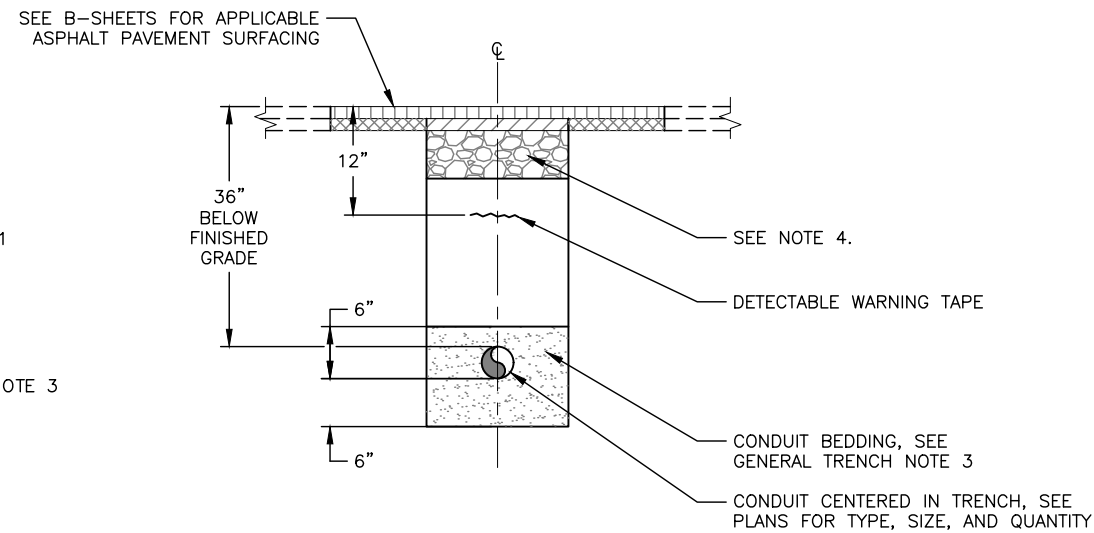
12/22/2022
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12/22/2022

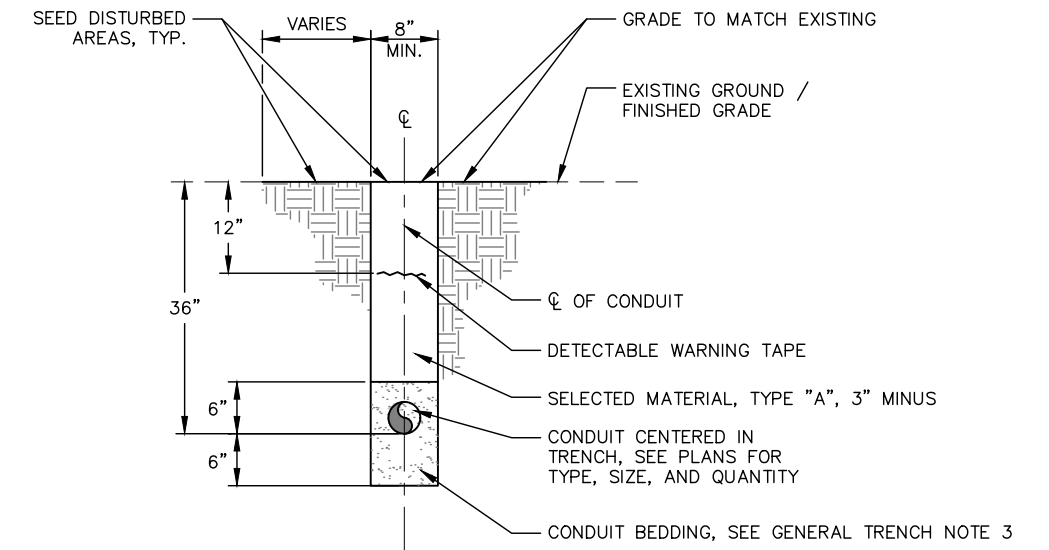
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H48	H53



CONDUIT TRENCH UNDER PATHWAYS AND SIDEWALKS
NTS



CASE A: TRANSVERSE CONDUIT TRENCH DETAIL UNDER ROADWAYS AND DRIVEWAYS
NTS



CONDUIT TRENCH DETAIL ADJACENT TO ROADWAYS, SIDEWALKS AND PATHWAYS
NTS

TRENCH DETAILS

GENERAL TRENCH NOTES:

- COORDINATE WITH EARTHWORK AND OTHER DISCIPLINES TO AVOID DUPLICATION OF EFFORT.
- ALL CONDUIT TRENCH AND EXCAVATION BENEATH ASPHALT OR CONCRETE PAVED SURFACES SHALL BE COMPLETED BEFORE FINAL PAVING.
- CONDUIT BEDDING SHALL MEET THE REQUIREMENTS FOR SELECTED MATERIAL, TYPE "A", 1" MINUS
- TRENCH BACKFILL SHALL MEET THE REQUIREMENTS FOR THE APPLICABLE LIFT PER OTHER WORK OR SELECT MATERIAL, TYPE A, 3" MINUS IN UNIMPROVED TRENCH SECTIONS.

TRENCH DETAILS

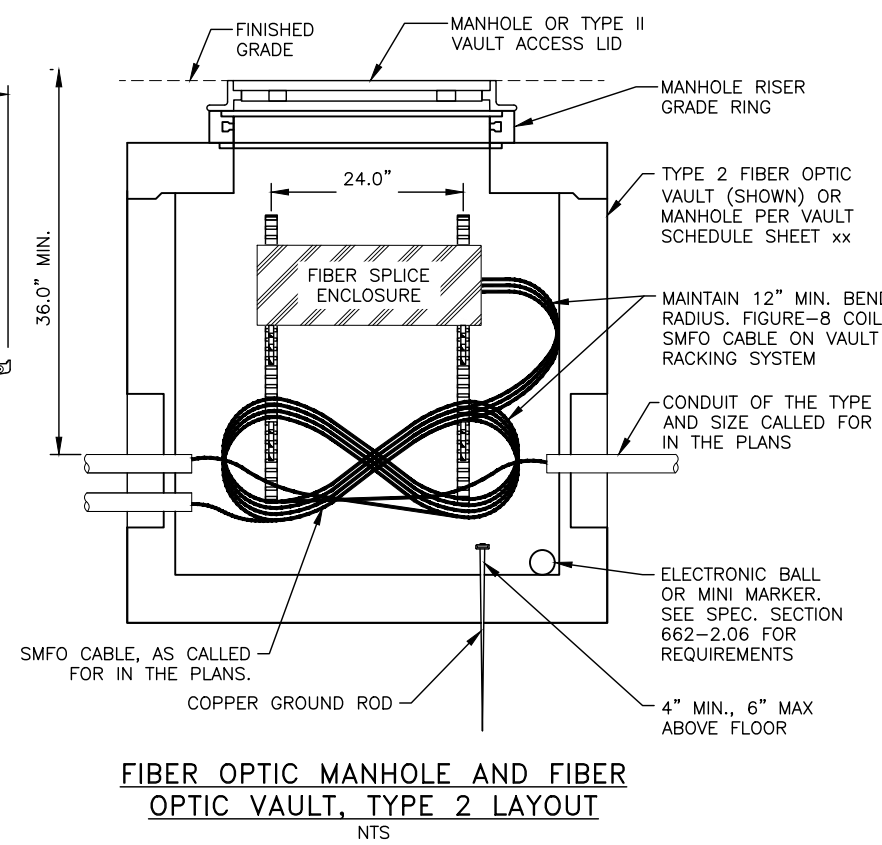
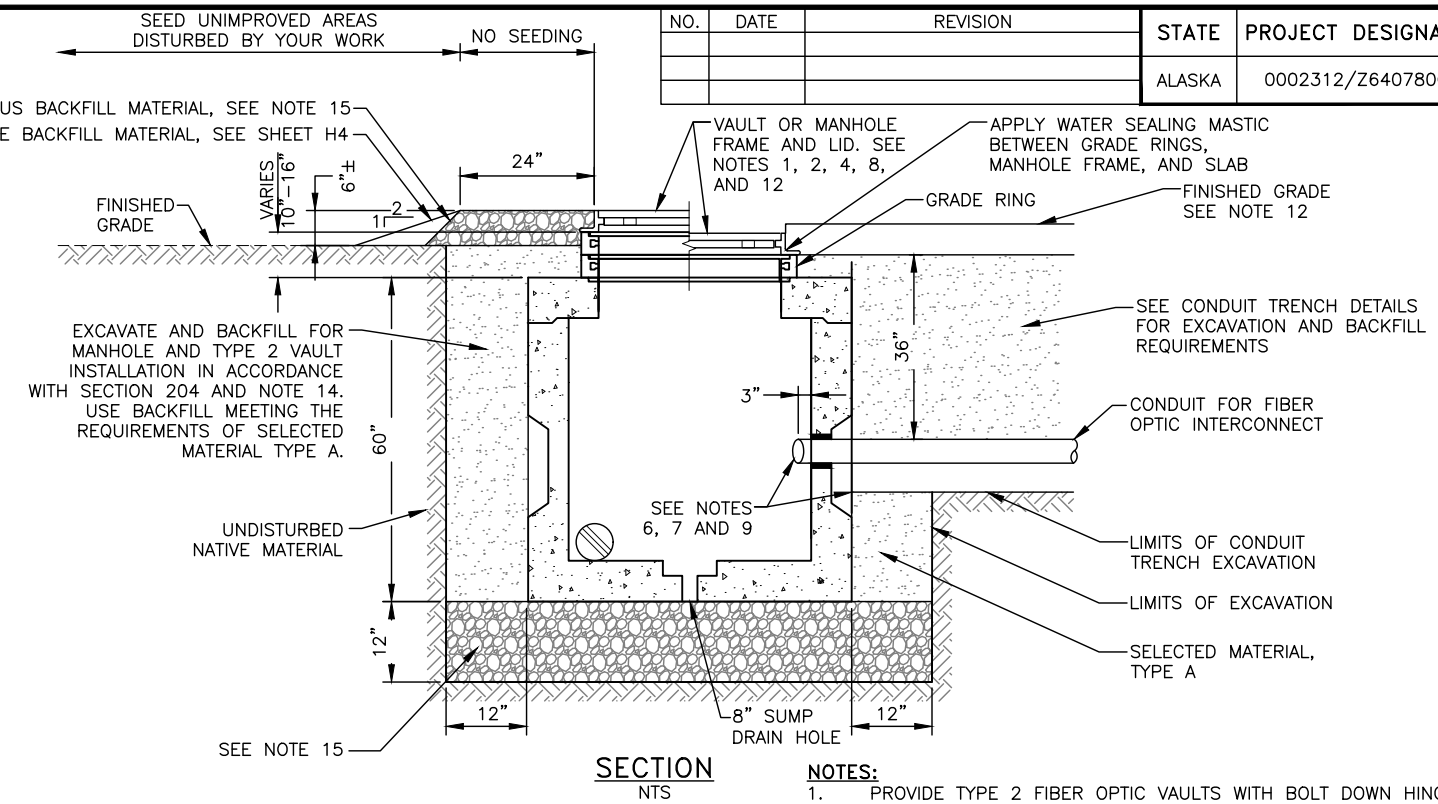
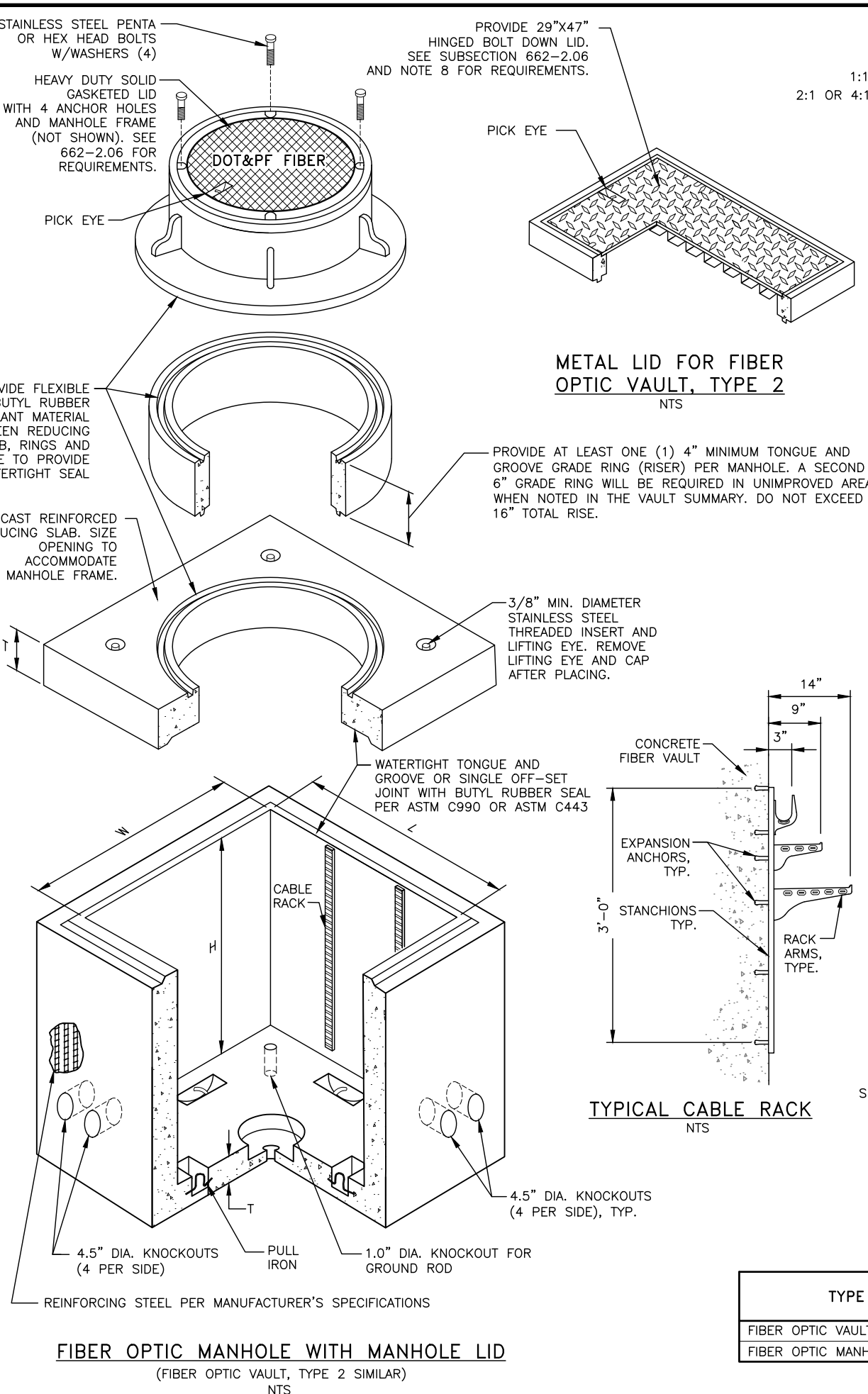
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

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Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_H48_ILUM & INTCONT DETAILS-H48 Thu, Dec/22/22 11:57am (Bill Paddock) KE#: 00385

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 (Bill Paddock) KE# 00385



TYPE	"L" INCH	"W" INCH	"H" INCH	"T" INCH	LID
FIBER OPTIC VAULT, TYPE 2	30	48	48	6 MIN	HINGED METAL
FIBER OPTIC MANHOLE	48	48	48	6 MIN	MANHOLE

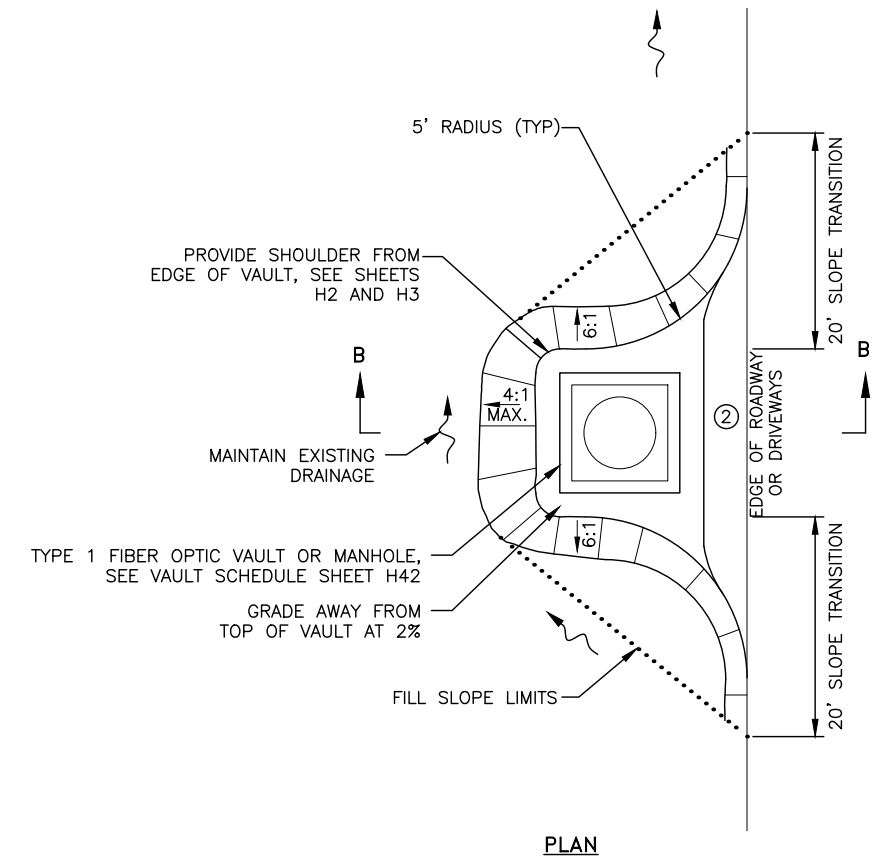
- | NO. | DATE | REVISION | STATE | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|-----|------|----------|--------|---------------------|------|-----------|--------------|
| | | | ALASKA | 0002312/Z640780000 | 2024 | H49 | H53 |
- NOTES:**
- PROVIDE TYPE 2 FIBER OPTIC VAULTS WITH BOLT DOWN HINGED METAL LID. SUPPLY FIBER VAULTS, LIDS, AND COVERS RATED FOR AASHTO HS-20-44 LOADING.
 - SUPPLY ALL LIDS WITH WITH A HOLE OR SLOT FOR REMOVAL WITH A LEVER OR HOOK.
 - WHERE REQUIRED BY OSHA, PROVIDE A PORTABLE ENTRY LADDER MEETING OSHA REQUIREMENTS.
 - PROVIDE FIBER VAULT AND MANHOLE LIDS MARKED, "DOT&PF FIBER".
 - PROVIDE FIBER MANHOLES AND VAULTS WITH A HEAVY-DUTY NON-METALLIC CABLE STORAGE RACK SYSTEM. PROVIDE RACK ARMS OR STANCHIONS CAPABLE OF SUPPORTING A MINIMUM OF 250 LBS. INCLUDE A MINIMUM OF 36 INCH RACK STANCHIONS AND 4 RACK ARMS.
 - INSTALL CONDUITS INTO FIBER VAULT AT THINWALL SECTIONS ONLY. CORE DRILL IN THE THIN WALL SECTION TO CONDUIT SIZE PLUS 1/4 INCH ALL AROUND. DO NOT "KNOCK OUT" THE THIN WALL SECTION.
 - SEAL CONDUIT PENETRATIONS USING SIKA LEAKMASTER LV-Z OR APPROVED ADEKA PRODUCT EQUIVALENT.
 - BOND AND GROUND ALL METALLIC COMPONENTS OF THE FIBER VAULT, INCLUDING RACK, FRAME AND LIDS PER STANDARD SPECIFICATION 660-3.06.
 - PLUG CONDUITS ENDS TO EXCLUDE WATER UNTIL FIBER OPTIC CABLE IS INSTALLED. SEE SECTIONS 660 AND 662.
 - EXTEND GROUND ROD A MINIMUM OF 4 INCHES AND A MAXIMUM OF 6 INCHES ABOVE BOTTOM OF VAULTS AND MANHOLES.
 - USE A SPLIT BOLT CONNECTOR TO ATTACH GROUND WIRES TO GROUND ROD. ATTACH NO MORE THAN TWO WIRES PER BOLT.
 - U.O.N., TOP OF FIBER OPTIC VAULTS AND MANHOLES SHALL BE INSTALLED:
 - FROM 0" TO 3/16" BELOW FINISHED GRADE WHEN LOCATED IN A SIDEWALK OR PATHWAY;
 - 3/8" BELOW FINISHED GRADE WHEN LOCATED IN A PAVED PARKING LOT, MEDIAN, OR ROADWAY;
 - FROM 4" TO 8" ABOVE FINISHED GRADE IN UNIMPROVED AREAS, AWAY FROM HARDSCAPED SURFACES;
 - OR AS DIRECTED BY THE ENGINEER.
 - DO NOT PLACE VAULTS AND MANHOLES IN THE BOTTOM OF DRAINAGE COLLECTION AREAS.
 - ALL TRENCHING AND EXCAVATION SHALL COMPLY WITH OSHA
 - SAFETY STANDARDS AND REGULATIONS.
 - POROUS BACKFILL MATERIAL: GRADATION B CONFORMING TO SUBSECTION 703-2.10

TYPE II FIBER OPTIC VAULT AND MANHOLE DETAILS

PLANS DEVELOPED BY:
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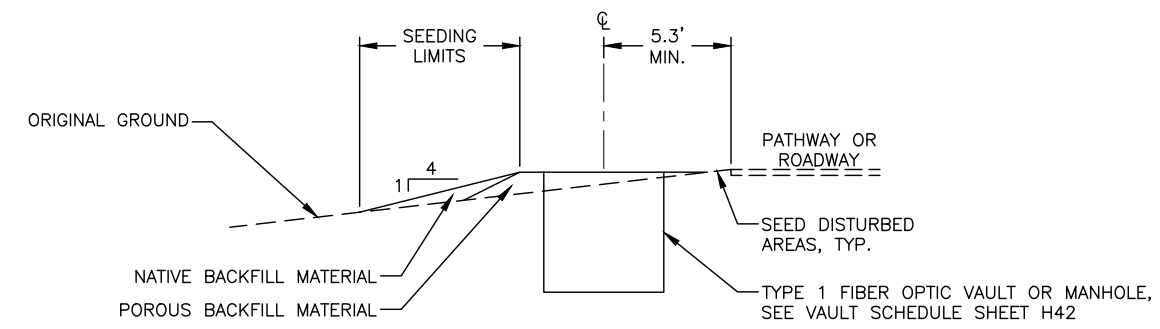
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 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H50	H53



PLAN
VAULT GRADING ON ROADWAY FORESLOPE
 NTS

- NOTES:**
- ① WHEN VAULT IS LOCATED WITHIN OR ADJACENT TO A PATHWAY DEPRESS VAULT 1/4".
 - ② SLOPE TO MATCH EXISTING, 4:1 TYPICAL.
 3. SEED DISTURBED AREAS AS DIRECTED BY THE ENGINEER.
 - ④ DO NOT EXCEED ROW LIMITS.
 - ⑤ USE 4:1 MAX WHEN 30' OR LESS FROM TRAVELED WAY.



SECTION B-B
VAULT GRADING AND LOCATION
 NTS

VAULT GRADING DETAILS

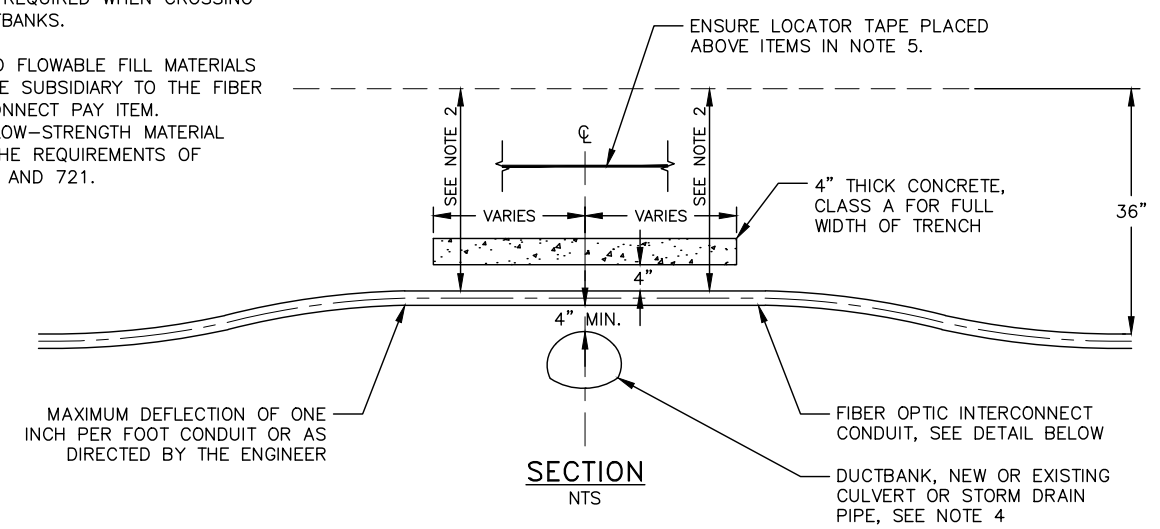
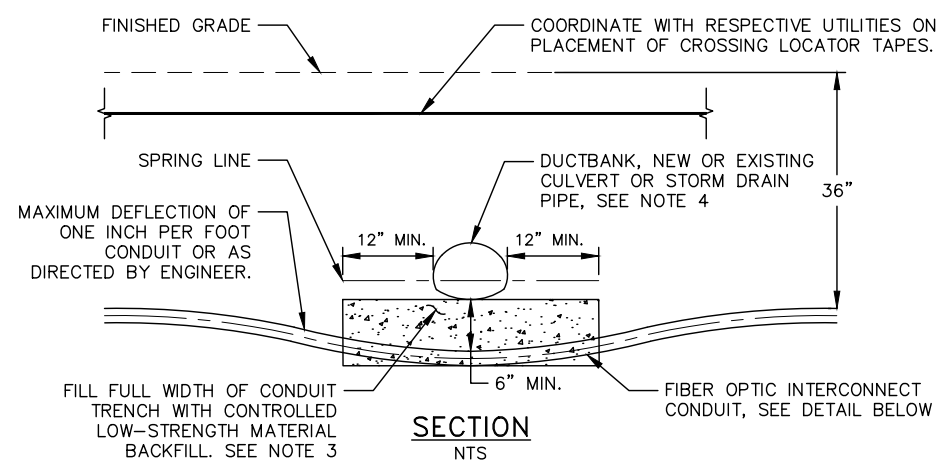
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 Z:\PROJECTS\DOTPF\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_H51_ILUM & INTCONT DETAILS-H51 Thu, Dec/22/22 11:56am
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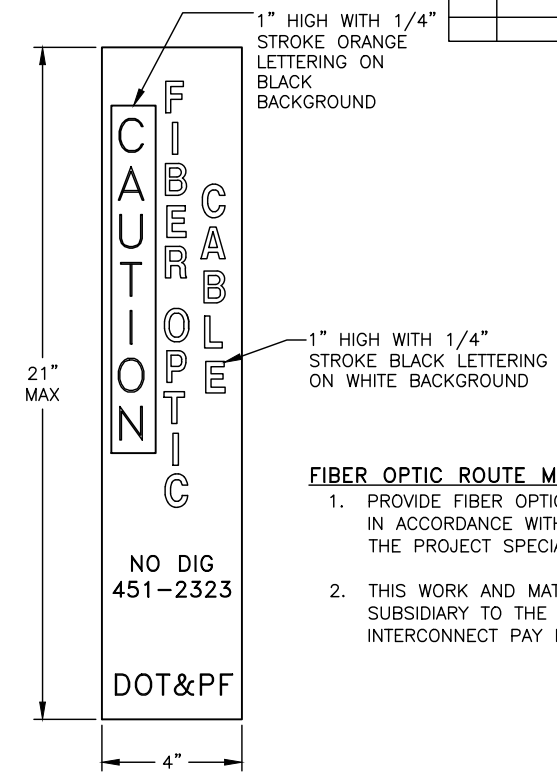
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H51	H53

CONDUIT-CULVERT CROSSING NOTES:

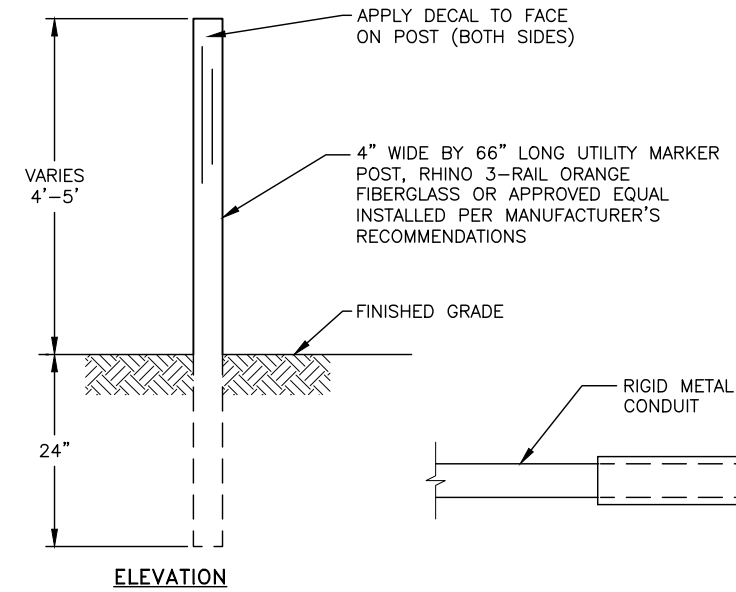
- UNLESS DIRECTED OTHERWISE BY THE ENGINEER, USE THIS DETAIL WHENEVER HDPE INTERCONNECT CONDUIT BURIAL DEPTH IS LESS THAN 30".
- MINIMUM INTERCONNECT CONDUIT COVER REQUIREMENTS:
 - 24" UNDER ROADWAYS, DRIVEWAYS, PARKING LOTS, AND PATHWAYS.
 - 18" UNDER ALL OTHER AREAS.
- ENSURE THAT THE HDPE INTERCONNECT CONDUIT IS PROPERLY POSITIONED AND ANCHORED BEFORE BACKFILLING WITH CONTROLLED LOW-STRENGTH MATERIAL.
- U.O.N. OR DIRECTED BY THE ENGINEER, USE THIS DETAIL WHEN OTHER UNDER GROUND UTILITY CROSSINGS ARE ENCOUNTERED. DO NOT ENCASE UTILITY IN CONTROLLED LOW-STRENGTH MATERIAL OR CONCRETE UNLESS OTHERWISE DIRECTED. POTHOLES IS REQUIRED WHEN CROSSING BENEATH DUCTBANKS.
- CONCRETE AND FLOWABLE FILL MATERIALS AND WORK ARE SUBSIDIARY TO THE FIBER OPTIC INTERCONNECT PAY ITEM. CONTROLLED LOW-STRENGTH MATERIAL SHALL MEET THE REQUIREMENTS OF SECTIONS 205 AND 721.



CONDUIT-CULVERT CROSSING DETAIL
NTS



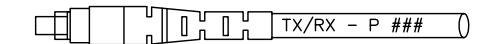
DECAL
NTS



FIBER OPTIC ROUTE MARKER DETAIL
NTS

- FIBER OPTIC ROUTE MARKER NOTES:**
- PROVIDE FIBER OPTIC ROUTE MARKERS IN ACCORDANCE WITH SECTION 662 OF THE PROJECT SPECIAL PROVISIONS.
 - THIS WORK AND MATERIALS IS SUBSIDIARY TO THE FIBER OPTIC INTERCONNECT PAY ITEM.

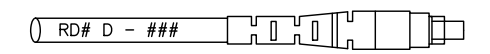
TRANSMIT DIRECTION	ABBREVIATION	
	TRANSMIT	RECEIVE
SOUTH TO NORTH	TX(a)	RX(a)
NORTH TO SOUTH	TX(b)	RX(b)
WEST TO EAST	TX(a)	RX(a)
EAST TO WEST	TX(b)	RX(b)



TX/RX TRANSMIT DIRECTION ABBREVIATION PER TRANSMIT DIRECTION TABLE
 P LETTER P FOR PATCH CORD
 ### FIBER POSITION NUMBER

LABEL BOTH ENDS OF THE PATCH PANEL CORD

LABELING FOR FIBER PATCH CORDS

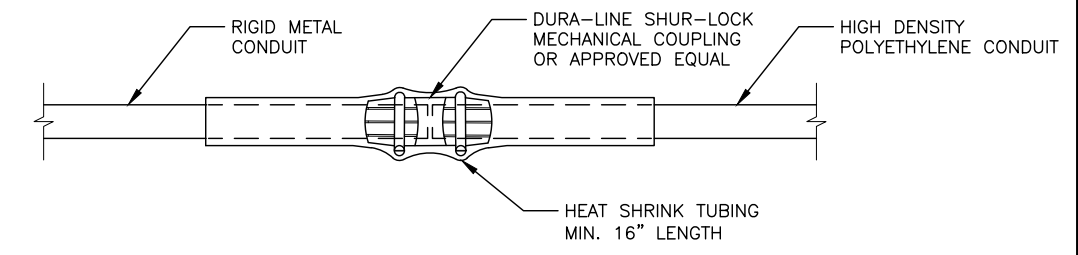


RD# ROADWAY THE CABLE IS ROUTED FROM THE PATCH PANEL
 3RD = 3RD STREET FLR = FARMERS LOOP RD
 AD = ALUMNI DR JE = JOHANSEN EXPY
 AW = AIRPORT WAY PR = PEGER RD
 BR = BALLAINE RD TD = NORTH TANANA DR
 CR = COLLEGE RD UA = UNIVERSITY AVE
 LA = LATHROP ST SC = S CUSHMAN ST
 PH = PARKS HWY ME = MITCHELL EXPY

D DIRECTION THE CABLE IS ROUTED FROM THE PATCH PANEL
 N = NORTH E = EAST
 S = SOUTH W = WEST

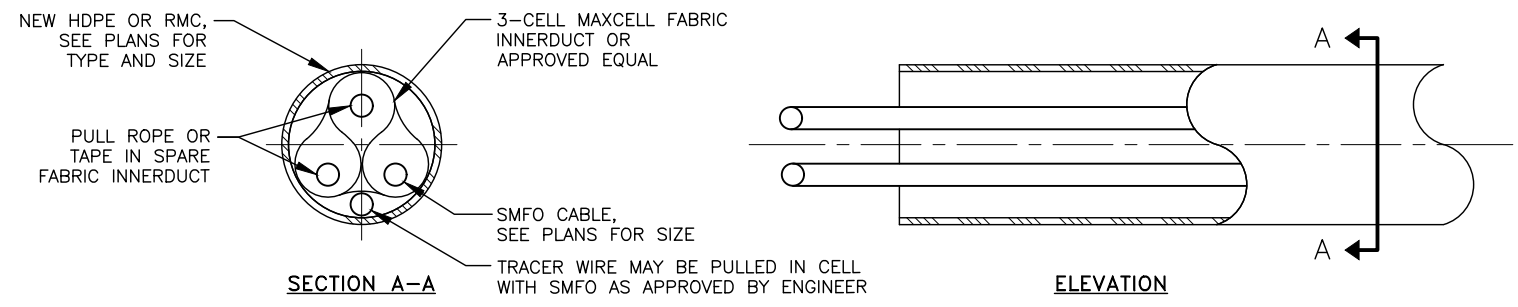
NUMBER OF OPTICAL FIBERS PER EIA 359-A-1

LABELING FOR MAINLINE FIBER CABLES



RMC TO HDPE CONDUIT CONNECTION DETAIL
NTS

EXCEPTION:
 USE ELECTROFUSION COUPLINGS PER THE HDPE MANUFACTURER'S REQUIREMENTS, WHEN JOINING HDPE TO HDPE.



TYPICAL FIBER OPTIC (NEW) CONDUIT DETAIL
NTS

INTERCONNECT CROSSING DETAILS

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	H52	H53

LEGEND

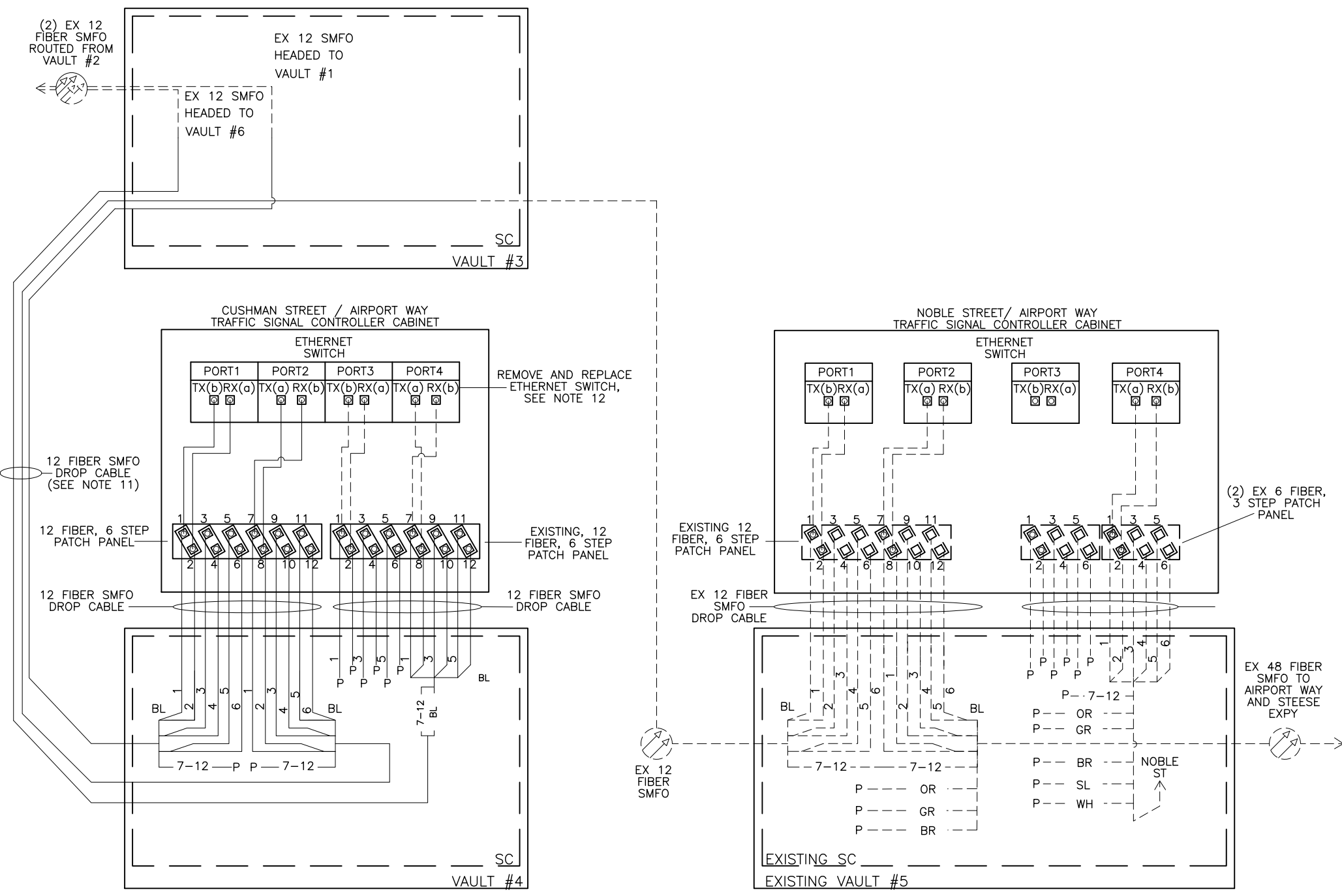
- ▲ FIBER SPLICE
- FIBER STRAND / BUFFER TUBE
- LC CONNECTOR
- LC PORT
- JUMPER OR PATCH CHORD
- - - EXISTING FIBER STRAND / BUFFER TUBE
- - - EXISTING FIBER OPTIC CABLE
- - - FIBER OPTIC CABLE
- - - EXISTING FIBER OPTIC CABLE SHARING ONE MAX-CELL RACEWAY

- SC SPLICE CLOSURE
- SMFO SINGLE MODE FIBER OPTIC CABLE
- P PROTECT FIBER END

TRANSMIT DIRECTION	ABBREVIATION	
	TRANSMIT	RECEIVE
SOUTH TO NORTH	TX(a)	RX(a)
NORTH TO SOUTH	TX(b)	RX(b)
WEST TO EAST	TX(a)	RX(a)
EAST TO WEST	TX(b)	RX(b)

NOTES:

- REFER TO PLANS FOR CABLE ROUTING TO/FROM CABINETS.
- ALL ETHERNET SWITCHES, ARE SINGLE MODE, OPERATING AT 1310 nm, UNLESS OTHERWISE SPECIFIED.
- ETHERNET SWITCHES AND TERMINAL SERVERS SHALL INCLUDE POWER ADAPTERS CONVERTING 120 VAC TO APPROPRIATE OPERATING VOLTAGES.
- ALL SPLICE TRAYS SHALL BE CONTAINED WITHIN ONE CLOSURE PER VAULT.
- DROP CABLES SHALL BE PRECONNECTORIZED IN THE FACTORY. CONNECTORS INSTALLED IN THE FIELD WILL NOT BE ALLOWED. SEE 662-2.04 FOR COILING EXCESS IN VAULTS.
- COMMUNICATION COMPONENTS ARE SHOWN SCHEMATICALLY. VERIFY TX-RX FIBER PORTS PRIOR TO MAKING FINAL CONNECTIONS.
- CONNECT ETHERNET SWITCH TO EACH PATCH PANEL WITH TWO SINGLE MODE FIBER PATCH CABLES. THE CABLES SHALL BE OF SUFFICIENT LENGTH TO ALLOW FOR MOVING OF THE ETHERNET SWITCH TO ANY SHELF LOCATION IN THE CABINET ONCE THE PATCH PANEL HAS BEEN INSTALLED. LABEL EACH PATCH CABLE ACCORDING TO THE TRANSMISSION DIRECTION TABLE.
- PROVIDE THREE (EACH) ETHERNET CABLES OF SIX FOOT LENGTH FOR EACH CABINET RECEIVING AN ETHERNET SWITCH, TO BE CONNECTED TO CABINET COMPONENTS ACCORDING TO THE SWITCH COMMUNICATIONS WIRING DIAGRAM.
- NO SPLICES ARE PERMITTED EXCEPT WHERE SPECIFICALLY INDICATED IN THE FIBER OPTIC SPLICE DIAGRAM. SPLICE CLOSURES MUST CONFORM TO SECTION 662-3.10 OF THE SPECIFICATIONS.
- MOUNT PATCH PANEL TO CABINET WALL AND IN A LOCATION AS TO NOT INTERFERE WITH OTHER EQUIPMENT AND SUCH THAT IT IS READILY ACCESSIBLE. PROVIDE SUFFICIENT SLACK CABLE IN CABINET TO ALLOW THE PATCH CABLE TO BE RELOCATED AT ANY LOCATION IN THE CABINET.
- THREE 12 SMFO FIBER OPTIC DROP CABLES SHALL SHARE SAME ONE-CELL RACEWAY WITH TRACER ROUTED OUTSIDE 3-CELL CONFIGURATION.
- SALVAGE EXISTING PAN-TILT-ZOOM CAMERA AND RX1500 ETHERNET SWITCH AT AIRPORT WAY AND CUSHMAN STREET INTERSECTION. CONTACT ERIC SLAY AT 907-451-5279 FOR DELIVERY. INSTALL NEW RSG920P OR APPROVED EQUAL IN NEW TRAFFIC CABINET. THIS WORK IS SUBSIDIARY TO 660.0001.0000 PAY ITEMS. SEE NORTHERN REGION SIGNAL INTERCONNECT - AIRPORT WAY & PEGER ROAD PROJ.# 0002(334) / 60520 (2015).

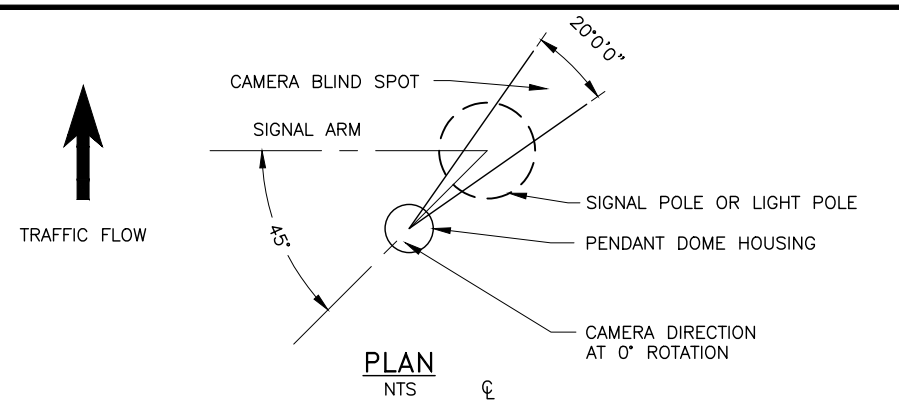


FIBER OPTIC SPLICE
DETAILS

PLANS DEVELOPED BY:
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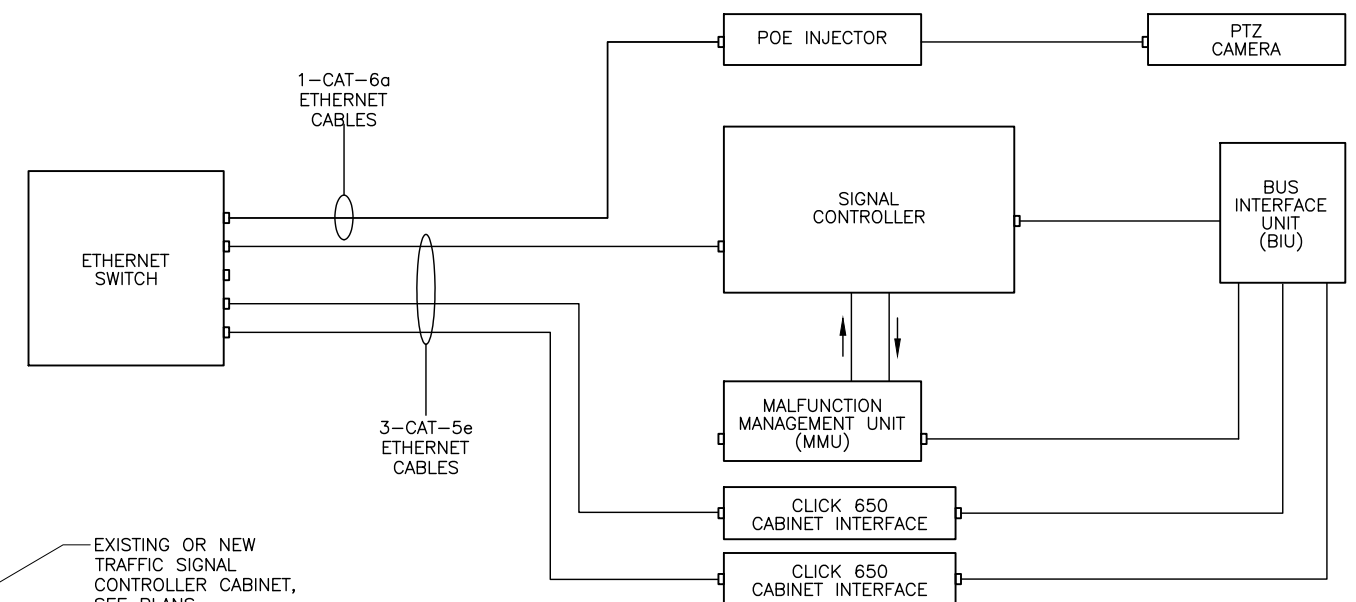
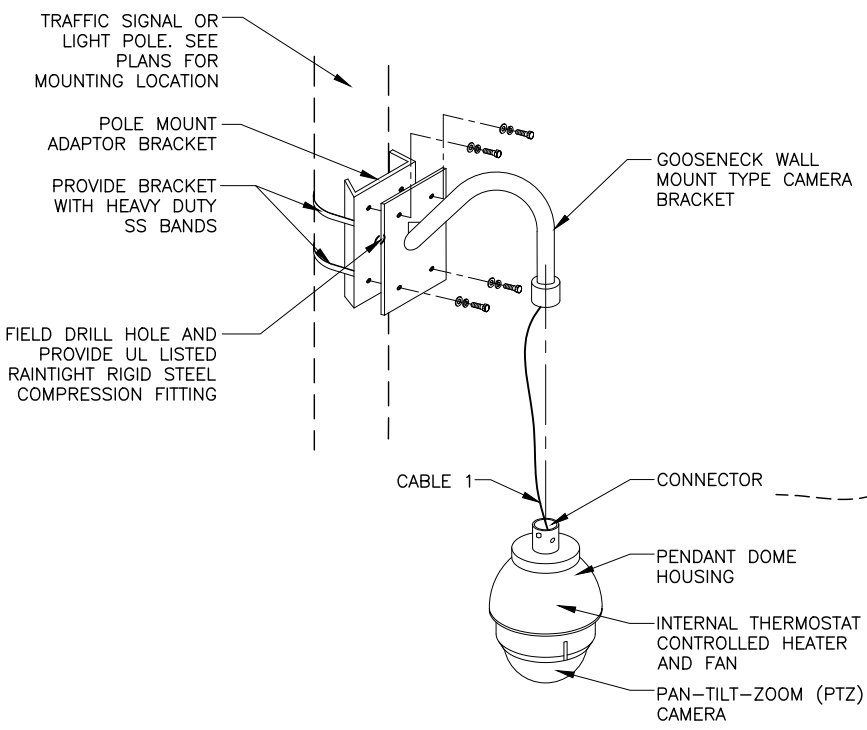
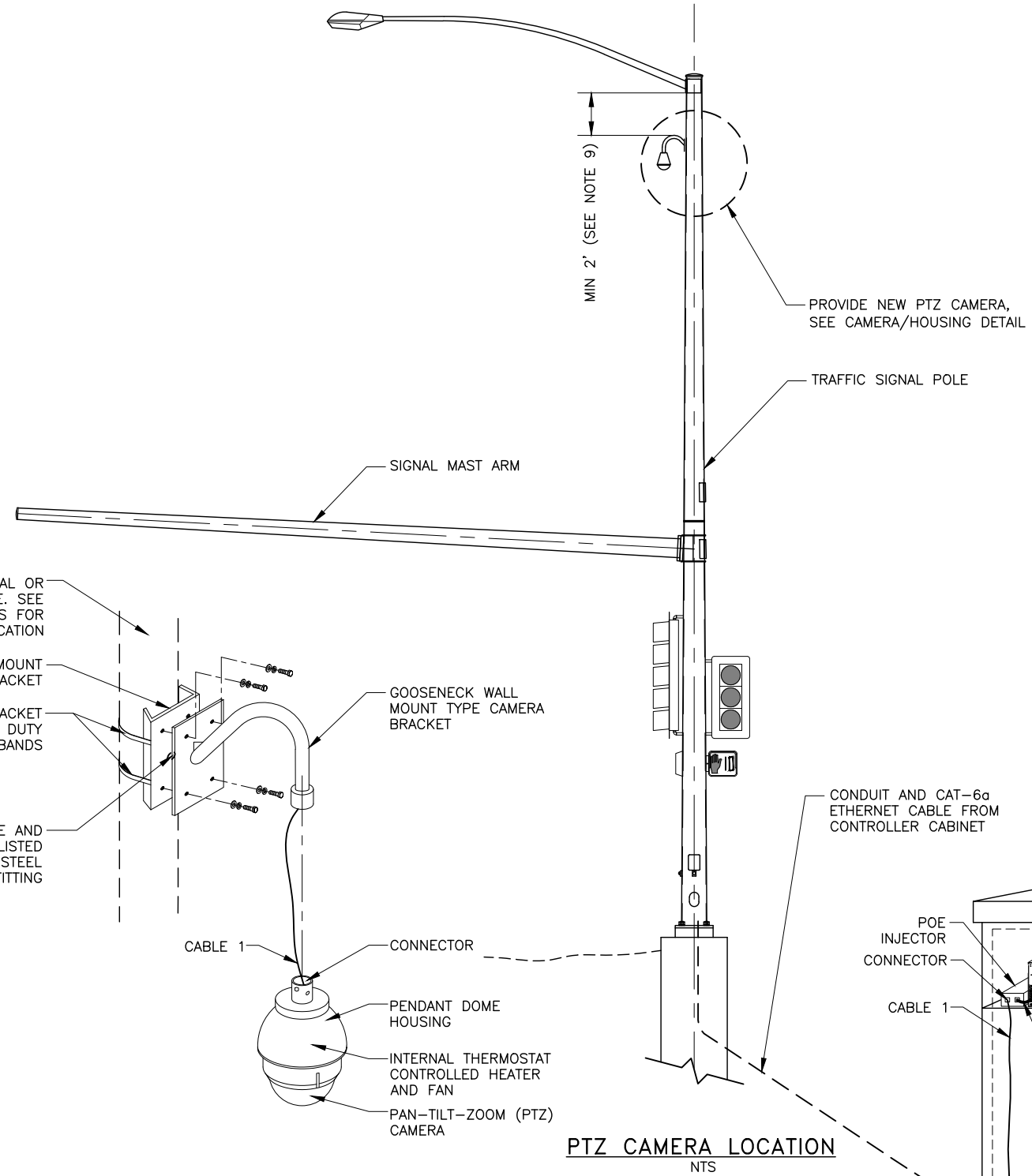
PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE#: 00385

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MATERIAL REQUIREMENTS	
ALL ASSEMBLIES	
MOUNTING BRACKET	PELCO TRITON BRACKET OR APPROVED EQUAL
POLE MOUNT ADAPTOR	AXIS T91A57 OR APPROVED EQUAL
GOOSENECK WALL MOUNT	AXIS T91G61 OR APPROVED EQUAL
CABLE 1	CAT-6a, FOILED
POE INJECTOR	AXIS T8134 60W OR APPROVED EQUAL
CONNECTOR	ENVIRONMENTALLY HARDENED RJ-45
STRAIN RELIEF	REMKE 2201-013 OR APPROVED EQUAL
CAMERA	
PTZ CAMERA	UNLESS OTHERWISE NOTED, PROVIDE AXIS Q6155-E OR APPROVED EQUAL
HOUSING	
PENDANT DOME HOUSING	OUTDOOR, INTEGRATED WITH CAMERA OR APPROVED EQUAL

- NOTES:**
- PROTECT ETHERNET CABLE ENDS FROM MOISTURE AT ALL TIMES.
 - WHEN NEW ETHERNET CABLE IS BEING ADDED TO EXISTING CONDUITS, CONFORM TO SECTIONS 660-3.03, 3.05, and 3.06 OF THE SPECIFICATIONS. PROVIDE CABLE SO THAT THERE IS SUFFICIENT LENGTH TO REACH THE TOP OF THE CONTROLLER CABINET. CABLE IS TO BE PULLED WITHOUT CONNECTORS ATTACHED. WHEN CABLE HAS BEEN PULLED TO FINAL LOCATIONS PROVIDE, RJ45 CONNECTORS AND MAKE FINAL CONNECTIONS.
 - CABLE RUNS ARE TO BE MADE CONTINUOUS WITHOUT SPLICES.
 - CABLE WITH DAMAGED INSULATION, OR HAS BEEN CRIMPED OR BENT BEYOND THE MINIMUM BEND RADIUS MUST BE REPLACED AT NO ADDITIONAL COST.
 - THE MINIMUM CABLE BEND RADIUS SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDATIONS DURING INSTALLATION.
 - MOUNT THE PENDANT DOME HOUSING AT A 45° ANGLE AT THE REQUIRED HEIGHT. ANGLE AND HEIGHT MAY BE ADJUSTED BY THE ENGINEER TO AVOID WELDS, AND SIGNAL APPURTENANCES AND TO IMPROVE CAMERA VIEWS.
 - ADJUST CAMERA INSIDE THE PENDANT DOME HOUSING AS SHOWN. ENSURE THAT THE CAMERA IS MOUNTED AT A 0° TILT ANGLE.
 - AT CABLE END CONNECTOR LOCATION PROVIDE A SECURE CONNECTION USING CONNECTOR PARTS SPECIFIED. AFTER CONNECTION IS MADE COVER SPLICE WITH WATER PROOF HEAT SHRINK TUBING. PROVIDE A STRAIN RELIEF CABLE AS NECESSARY.
 - CAT-6a TOTAL CABLE LENGTH SHALL NOT EXCEED 325 FEET FROM THE ETHERNET SWITCH TO THE PTZ CAMERA. WHEN MOUNTED ON THE SAME POLE WITH WIRELESS LIGHTING CONTROL GATEWAY, MOUNT THE PTZ CAMERA BELOW THE GATEWAY WITH 2 FEET MIN. OF SEPARATION BETWEEN THE TOP OF THE PTZ MOUNTING BRACKET AND THE BOTTOM OF THE GATEWAY ENCLOSURE, OR AT THE ENGINEER'S DIRECTION.



PAN, TILT, ZOOM (PTZ) CAMERA DETAILS

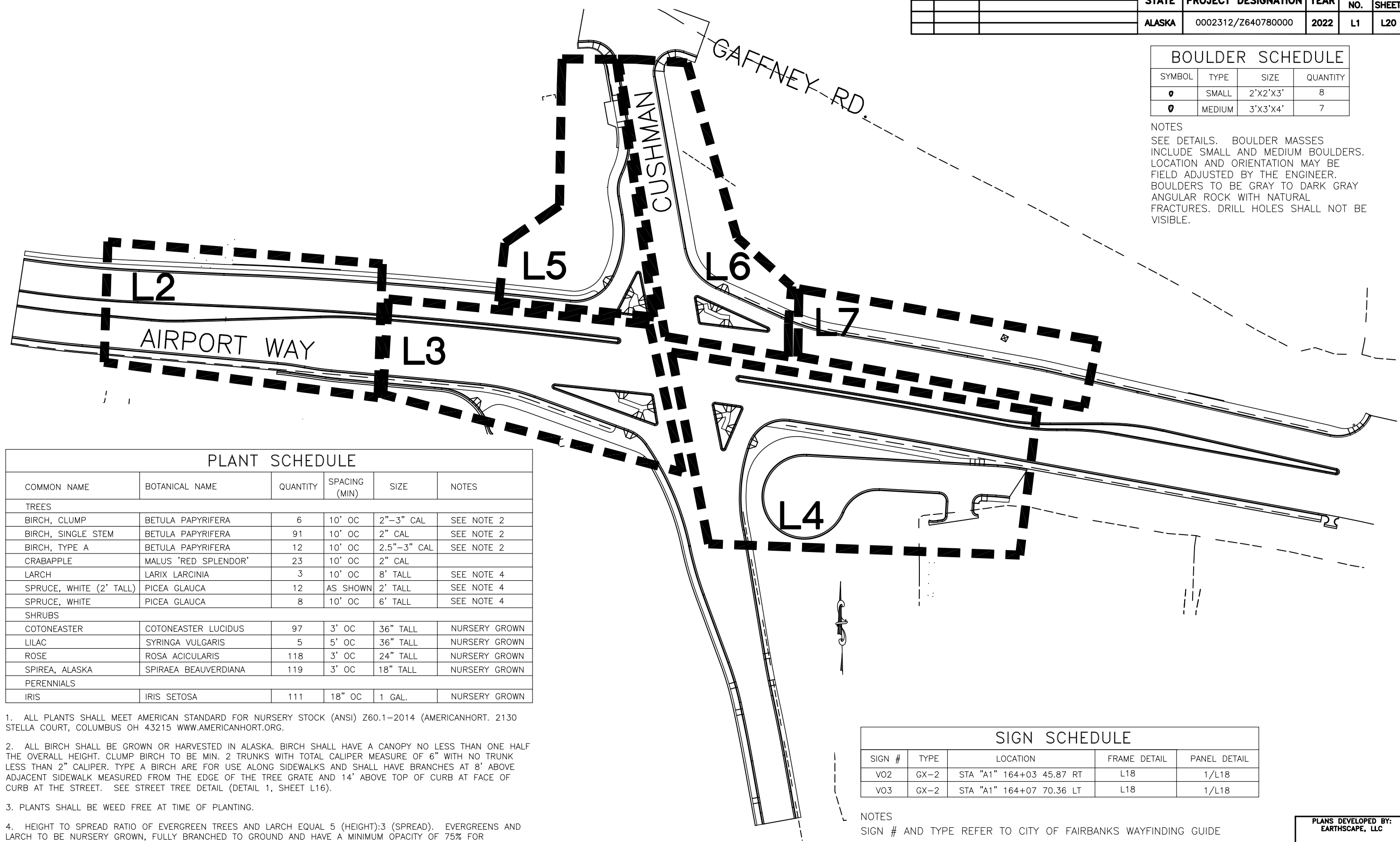
PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
 12/22/2022
 REVIEW
 PS&E
 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 348-2373 CERT. OF AUTH. NO. AEC1 1102
 P:\Airport Cushman\landscape- airport way cushman\1- 05-1-2022\airport cushman-landscape- layout\1.dwg, Dec/21/22 01:18pm
 (Elise) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2022	L1	L20

SYMBOL	TYPE	SIZE	QUANTITY
○	SMALL	2'X2'X3'	8
◐	MEDIUM	3'X3'X4'	7

NOTES
 SEE DETAILS. BOULDER MASSES INCLUDE SMALL AND MEDIUM BOULDERS. LOCATION AND ORIENTATION MAY BE FIELD ADJUSTED BY THE ENGINEER. BOULDERS TO BE GRAY ANGULAR ROCK WITH NATURAL FRACTURES. DRILL HOLES SHALL NOT BE VISIBLE.



COMMON NAME	BOTANICAL NAME	QUANTITY	SPACING (MIN)	SIZE	NOTES
TREES					
BIRCH, CLUMP	BETULA PAPYRIFERA	6	10' OC	2"-3" CAL	SEE NOTE 2
BIRCH, SINGLE STEM	BETULA PAPYRIFERA	91	10' OC	2" CAL	SEE NOTE 2
BIRCH, TYPE A	BETULA PAPYRIFERA	12	10' OC	2.5"-3" CAL	SEE NOTE 2
CRABAPPLE	MALUS 'RED SPLENDOR'	23	10' OC	2" CAL	
LARCH	LARIX LARCINIA	3	10' OC	8' TALL	SEE NOTE 4
SPRUCE, WHITE (2' TALL)	PICEA GLAUCA	12	AS SHOWN	2' TALL	SEE NOTE 4
SPRUCE, WHITE	PICEA GLAUCA	8	10' OC	6' TALL	SEE NOTE 4
SHRUBS					
COTONEASTER	COTONEASTER LUCIDUS	97	3' OC	36" TALL	NURSERY GROWN
LILAC	SYRINGA VULGARIS	5	5' OC	36" TALL	NURSERY GROWN
ROSE	ROSA ACICULARIS	118	3' OC	24" TALL	NURSERY GROWN
SPIREA, ALASKA	SPIRAEA BEAUVERDIANA	119	3' OC	18" TALL	NURSERY GROWN
PERENNIALS					
IRIS	IRIS SETOSA	111	18" OC	1 GAL.	NURSERY GROWN

- ALL PLANTS SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI) Z60.1-2014 (AMERICANHORT. 2130 STELLA COURT, COLUMBUS OH 43215 WWW.AMERICANHORT.ORG).
- ALL BIRCH SHALL BE GROWN OR HARVESTED IN ALASKA. BIRCH SHALL HAVE A CANOPY NO LESS THAN ONE HALF THE OVERALL HEIGHT. CLUMP BIRCH TO BE MIN. 2 TRUNKS WITH TOTAL CALIPER MEASURE OF 6" WITH NO TRUNK LESS THAN 2" CALIPER. TYPE A BIRCH ARE FOR USE ALONG SIDEWALKS AND SHALL HAVE BRANCHES AT 8' ABOVE ADJACENT SIDEWALK MEASURED FROM THE EDGE OF THE TREE GRATE AND 14' ABOVE TOP OF CURB AT FACE OF CURB AT THE STREET. SEE STREET TREE DETAIL (DETAIL 1, SHEET L16).
- PLANTS SHALL BE WEED FREE AT TIME OF PLANTING.
- HEIGHT TO SPREAD RATIO OF EVERGREEN TREES AND LARCH EQUAL 5 (HEIGHT):3 (SPREAD). EVERGREENS AND LARCH TO BE NURSERY GROWN, FULLY BRANCHED TO GROUND AND HAVE A MINIMUM OPACITY OF 75% FOR EVERGREENS AND 50% FOR LARCH.
- MULCH CONTINUOUSLY THROUGHOUT ALL PLANTING BEDS WITH 3" DEPTH SHREDDED BARK MULCH. SEE SPECIFICATIONS FOR MULCH, MULCH SHALL BIODEGRADE WITHIN 3 YEARS; KEEP MULCH 6" AWAY FROM STEMS AND TRUNKS. TRANSITION MULCH TO ADJACENT SURFACES. SEE MULCH LIMITS DETAIL.
- SEE SHEET L-10 FOR TOPSOIL AND SEED INFORMATION.
- SEE PLANTING DETAILS FOR ADDITIONAL INFORMATION.

SIGN #	TYPE	LOCATION	FRAME DETAIL	PANEL DETAIL
V02	GX-2	STA "A1" 164+03 45.87 RT	L18	1/L18
V03	GX-2	STA "A1" 164+07 70.36 LT	L18	1/L18

NOTES
 SIGN # AND TYPE REFER TO CITY OF FAIRBANKS WAYFINDING GUIDE

LANDSCAPE PLAN

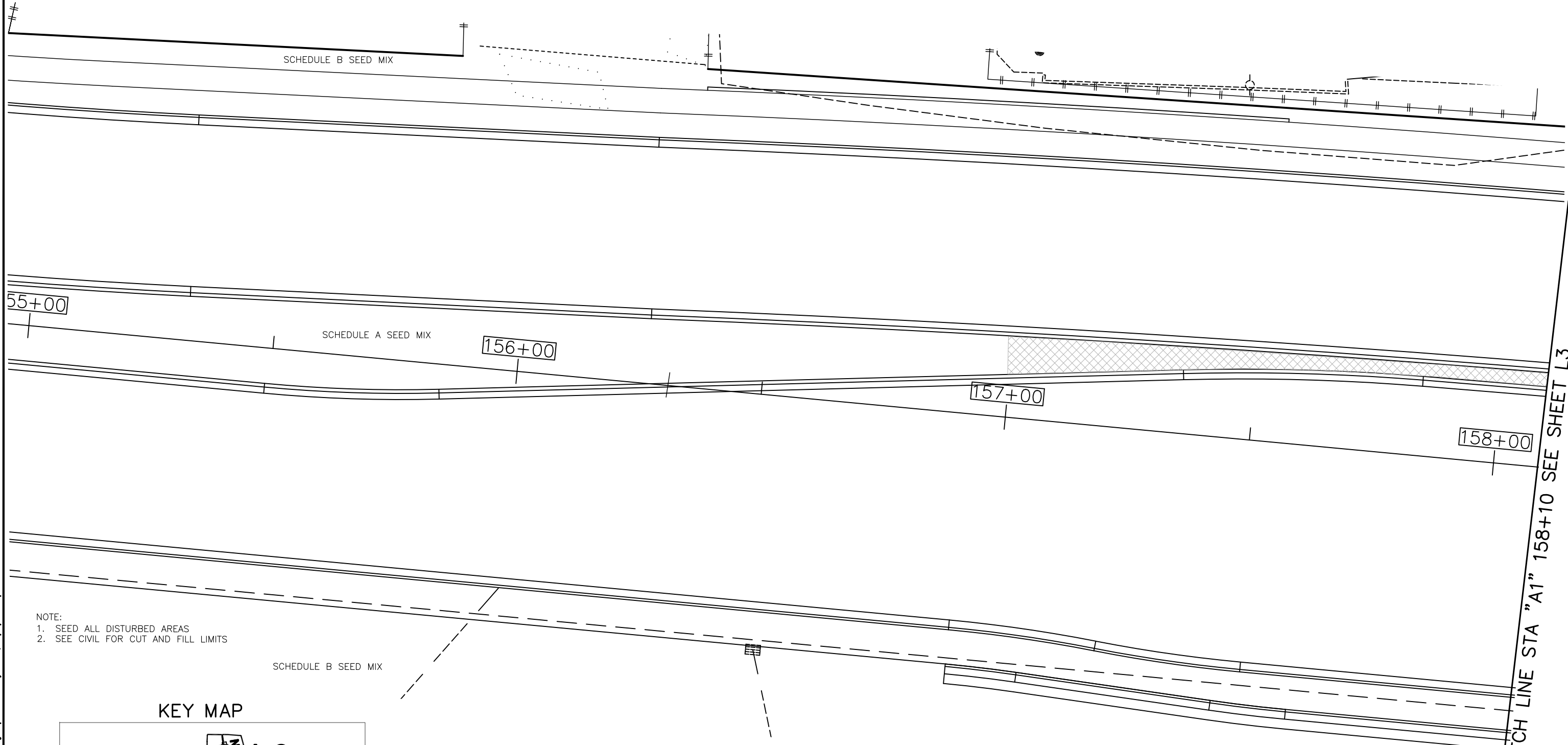
PLANS DEVELOPED BY:
 EARTHSCAPE, LLC

12/22/22

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
P:\Airport\Airport\landscape- airport way\cshman\1-16.1-redesign airport culman-Layout1.dwg, Dec/21/22 01:11pm

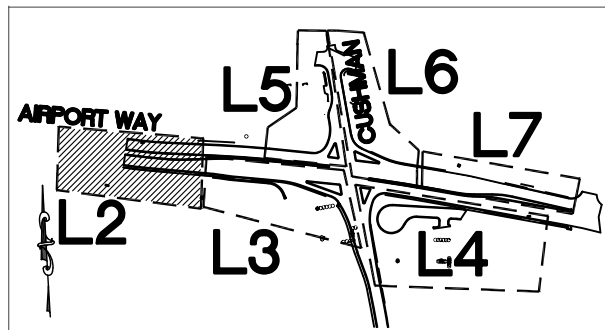
(Else) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2022	L2	L20



- NOTE:
- 1. SEED ALL DISTURBED AREAS
 - 2. SEE CIVIL FOR CUT AND FILL LIMITS

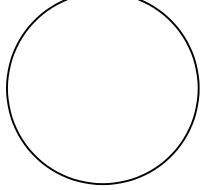
KEY MAP



MATCH LINE STA "A1" 158+10 SEE SHEET L3

LANDSCAPE PLAN

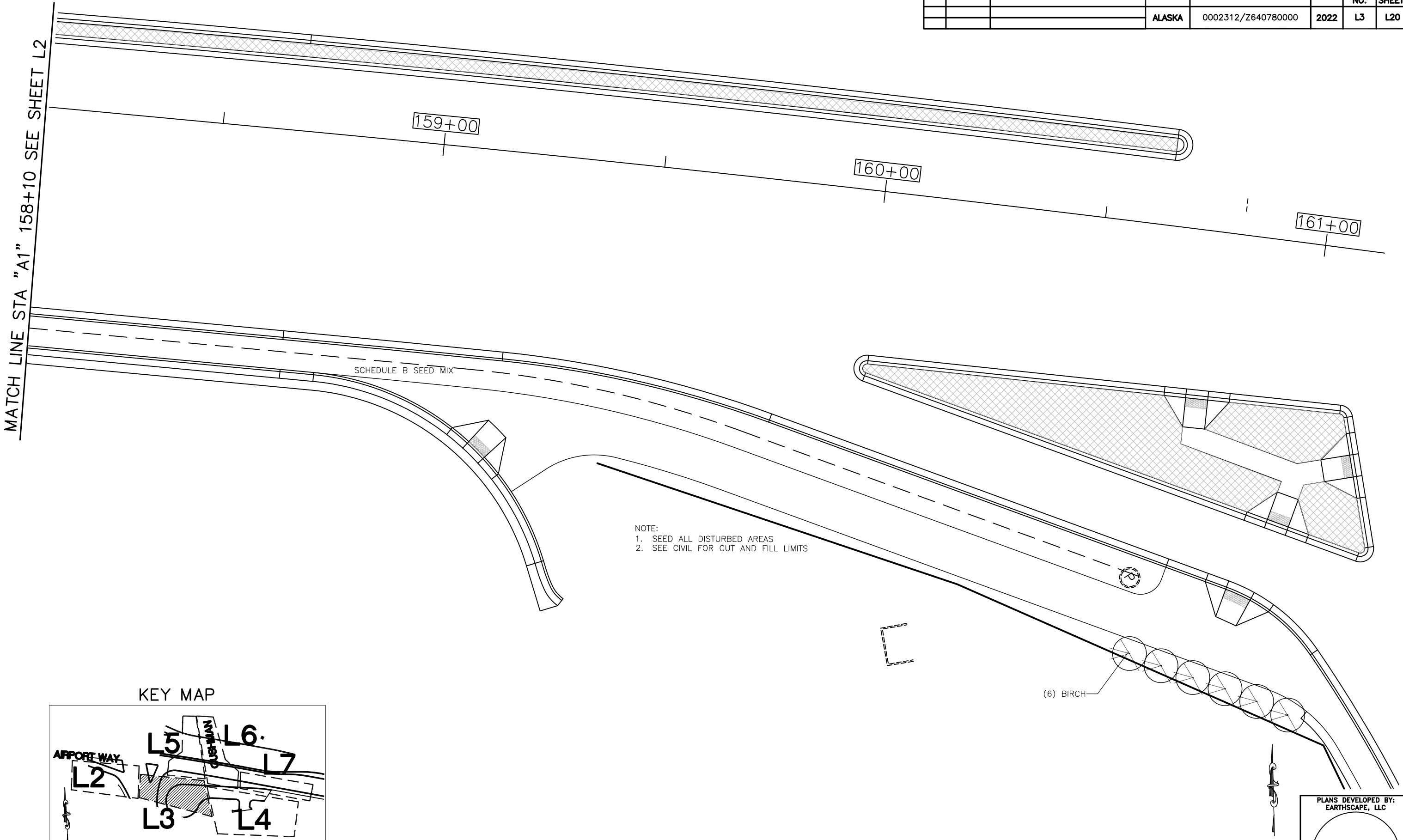
PLANS DEVELOPED BY:
EARTHSCAPE, LLC



12/12/22

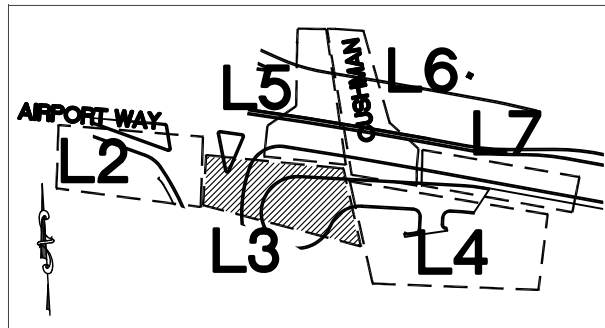
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2022	L3	L20

MATCH LINE STA "A1" 158+10 SEE SHEET L2



NOTE:
 1. SEED ALL DISTURBED AREAS
 2. SEE CIVIL FOR CUT AND FILL LIMITS

KEY MAP



LANDSCAPE PLAN

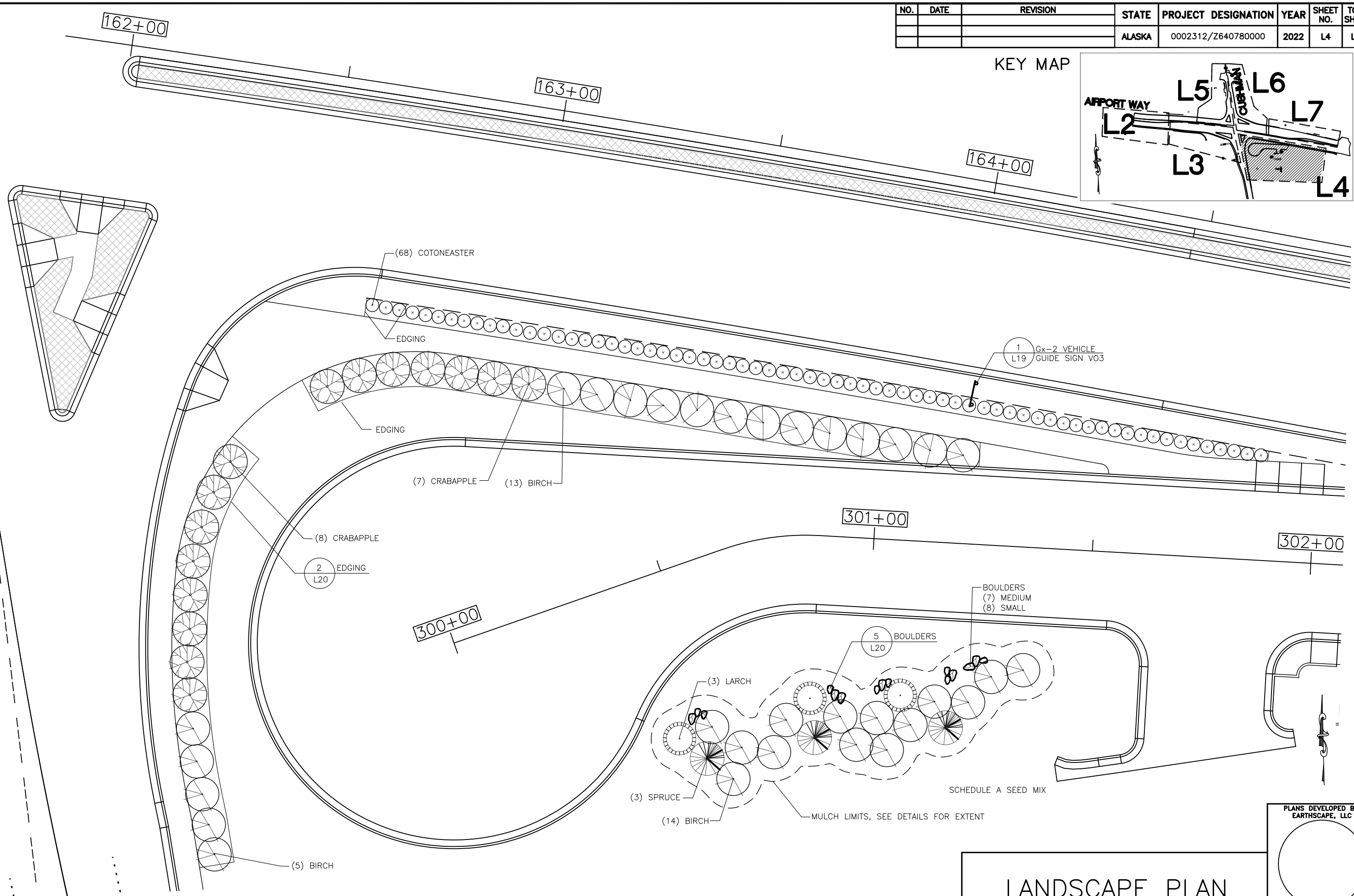
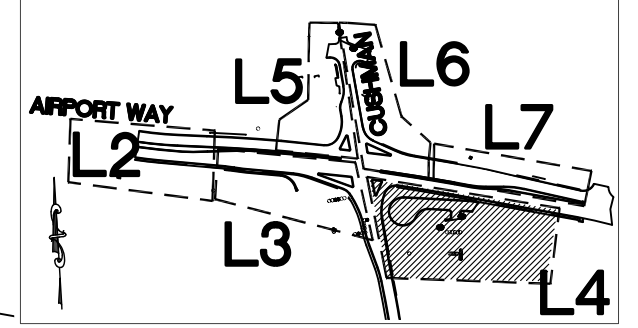
PLANS DEVELOPED BY:
 EARTHSCAPE, LLC

12/12/22

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd., Suite 400 Anchorage, Alaska 99503 (907) 348-2373 CERT. OF AUTH. NO. AECL 1102
 P:\Airport_Cushman\landscape- airport way cushman\1- 05.1- redesign airport cushman- layout\104_104.dwg 2/12/22 01:20pm
 (Eise) KE#: 00385

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



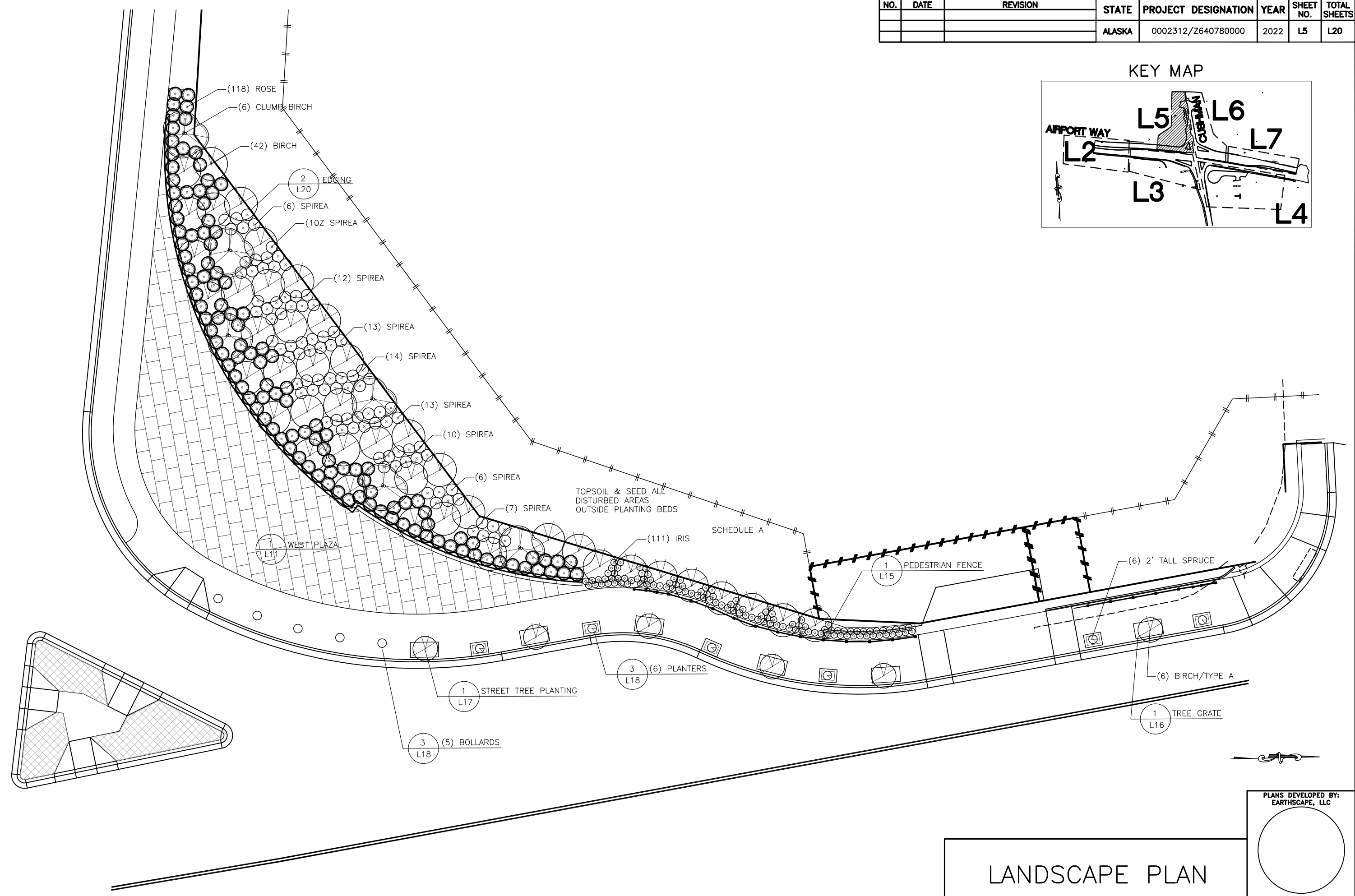
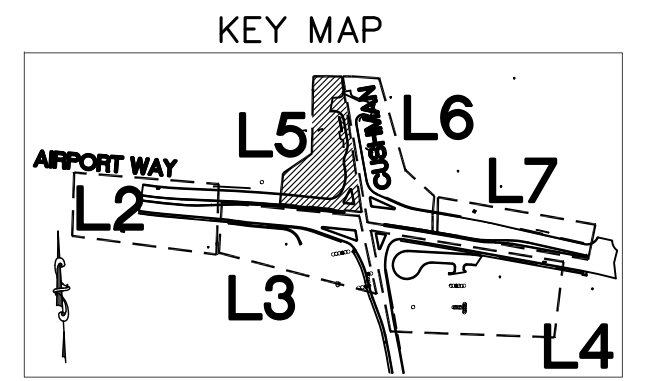
LANDSCAPE PLAN

PLANS DEVELOPED BY:
 EARTHSCAPE, LLC

12/12/22

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd., Suite 400 Anchorage, Alaska 99503 (907) 348-2373 CERT. OF AUTH. NO. AECL 1102
 P:\Airport_Culman\Landscape- airport way culman\1- 85.1-redeign airport culman-layout\1.dwg, Dec/21/22 01:21pm
 (Eise) KE#: 00385

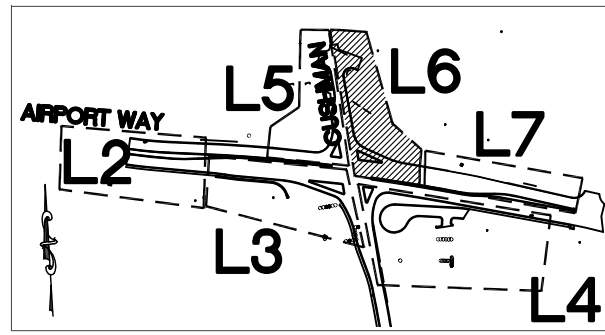
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			ALASKA	0002312/Z640780000	2022	L5	L20



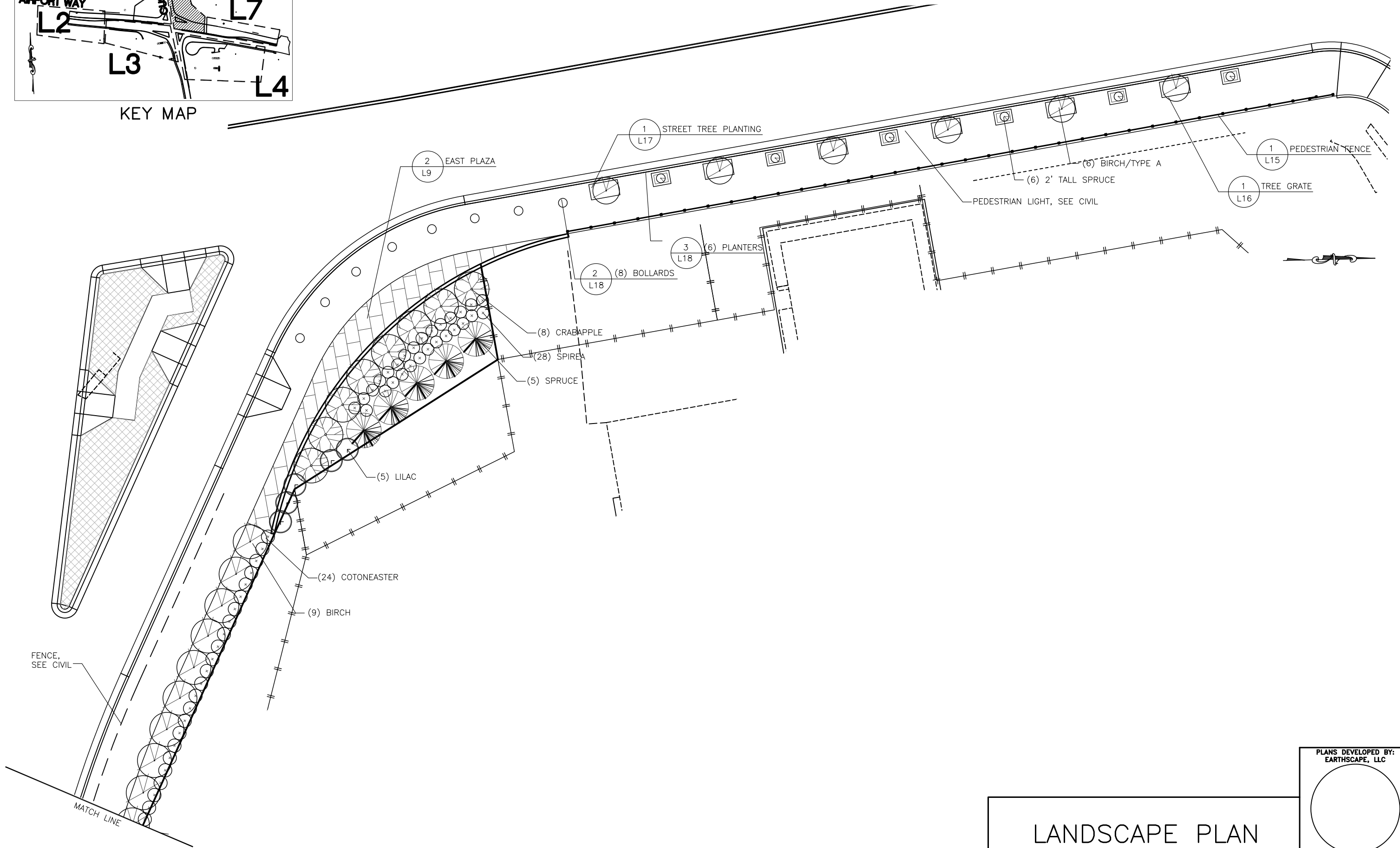
PLANS DEVELOPED BY:
 EARTHSCAPE, LLC

12/12/22

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2022	L6	L20

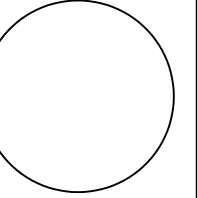


KEY MAP



LANDSCAPE PLAN

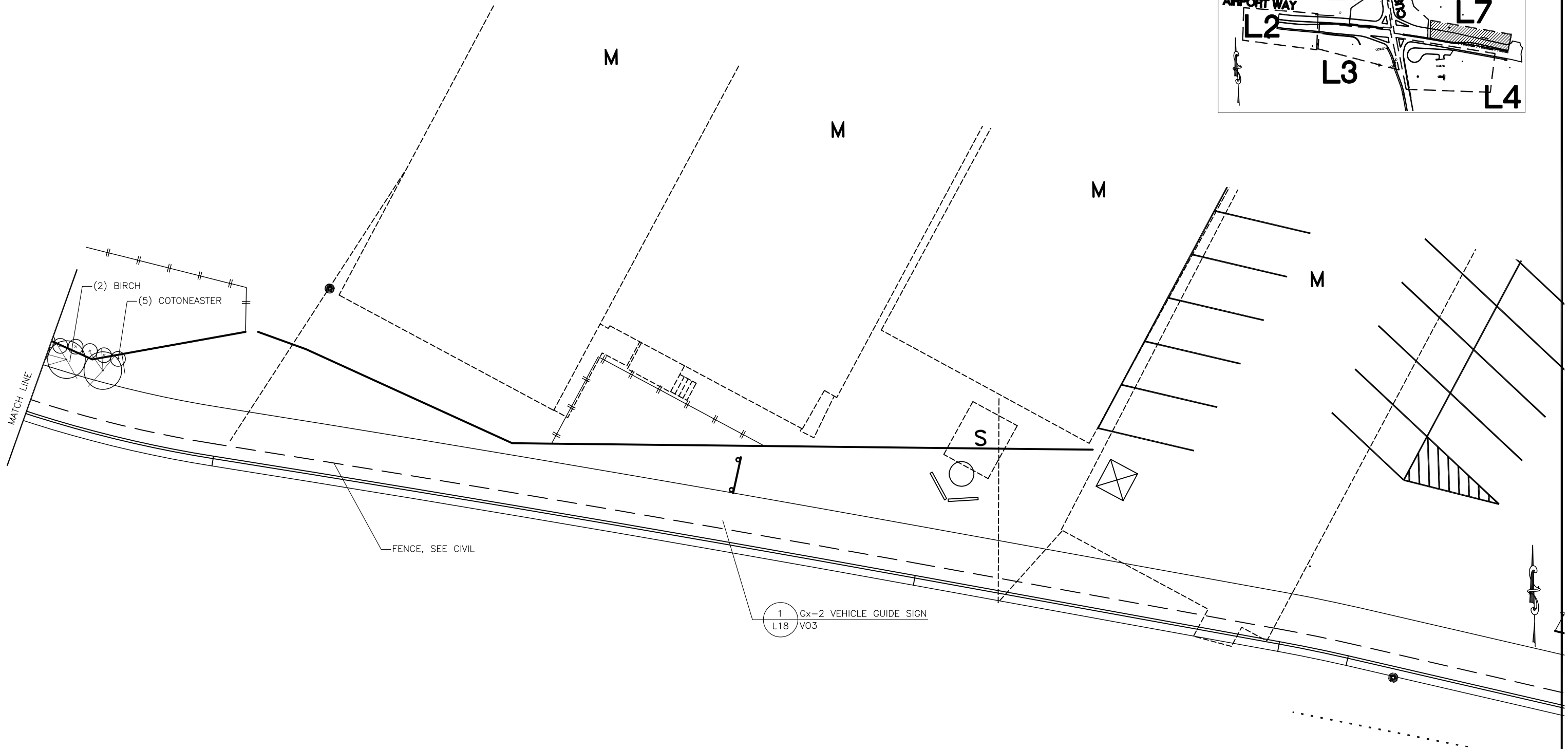
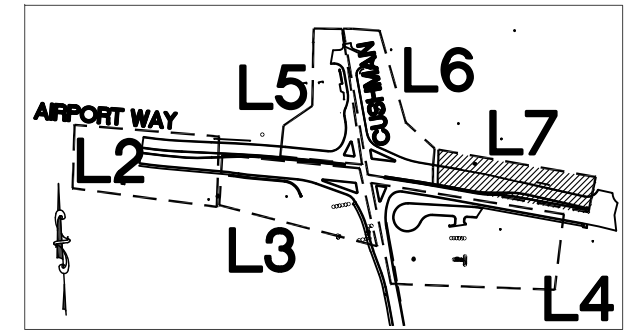
PLANS DEVELOPED BY:
 EARTHSCAPE, LLC



12/12/22

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2022	L7	L20

KEY MAP



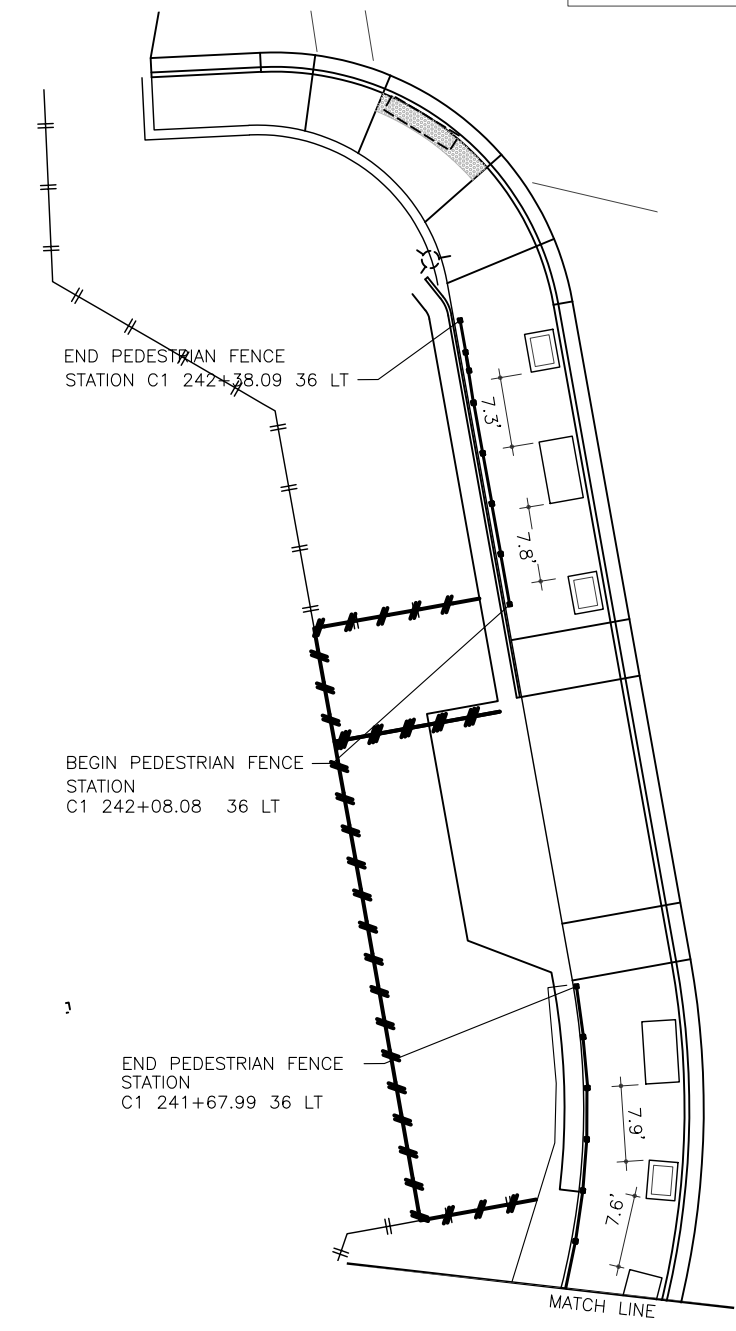
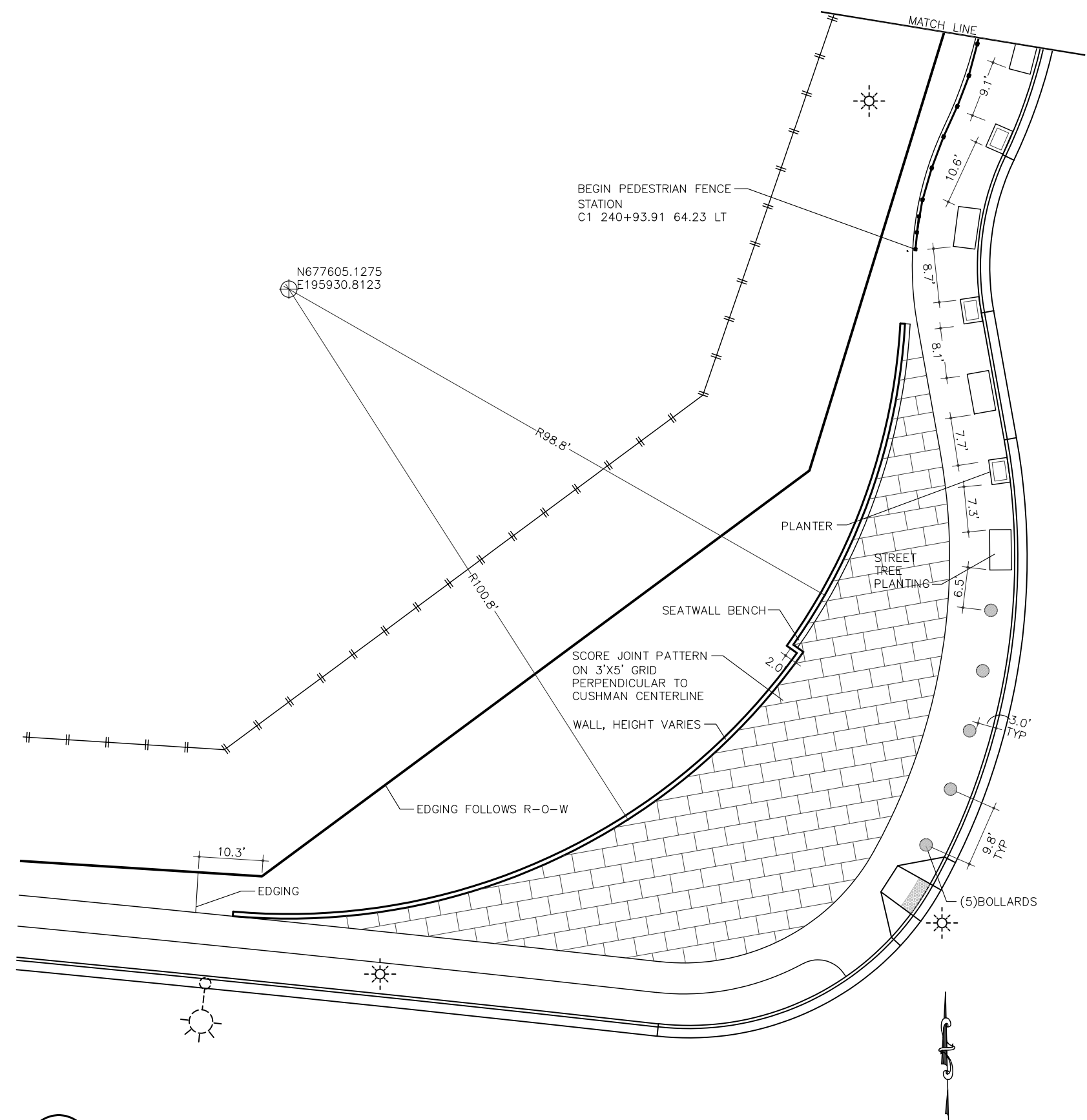
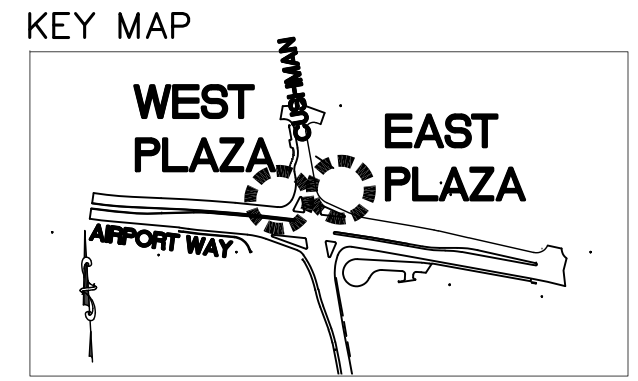
LANDSCAPE PLAN

PLANS DEVELOPED BY:
 EARTHSCAPE, LLC

12/12/22

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd., Suite 400 Anchorage, Alaska 99503 (907) 348-2373 CERT. OF AUTH. NO. AEC1 1102
 P:\Airport Cushman\landscape- airport way cushman\1- 05-1- redesign airport cushman-layout1 Thu, Dec/22/22 08:46am
 (Eise) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2022	L8	L20



1
L8

WEST PLAZA AND CUSHMAN STREET LAYOUT

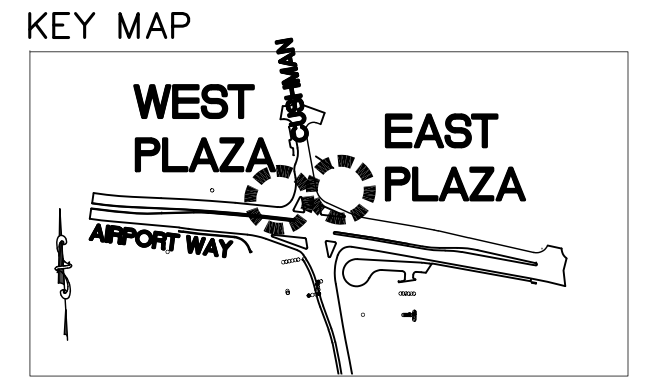
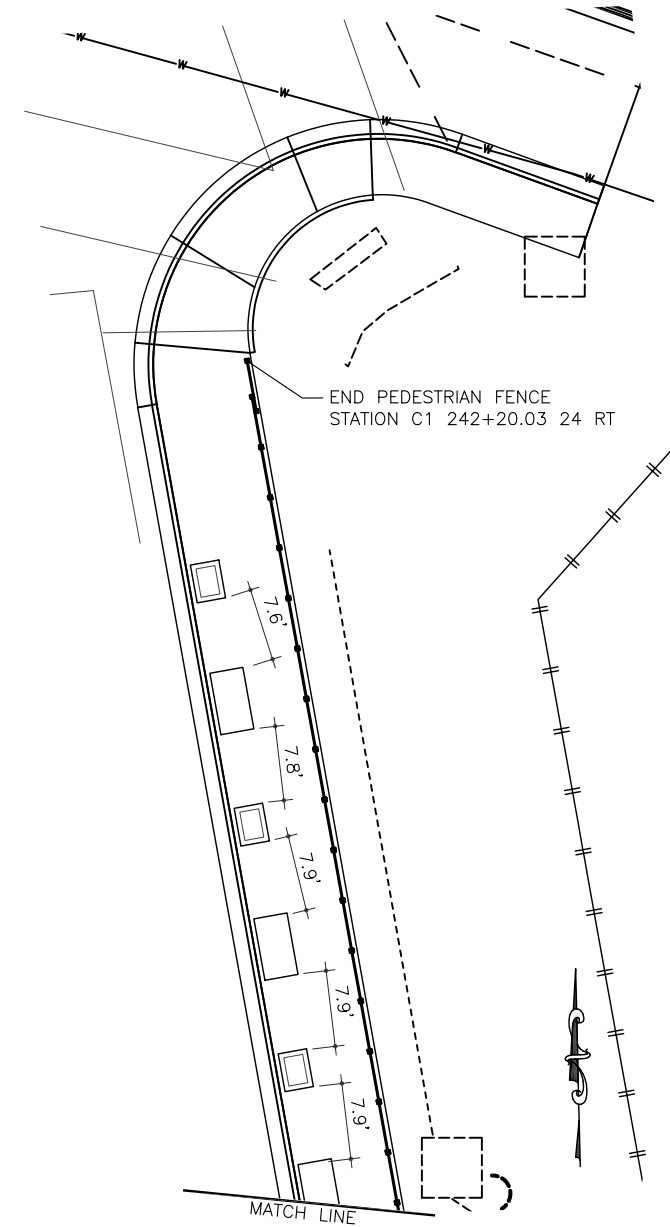
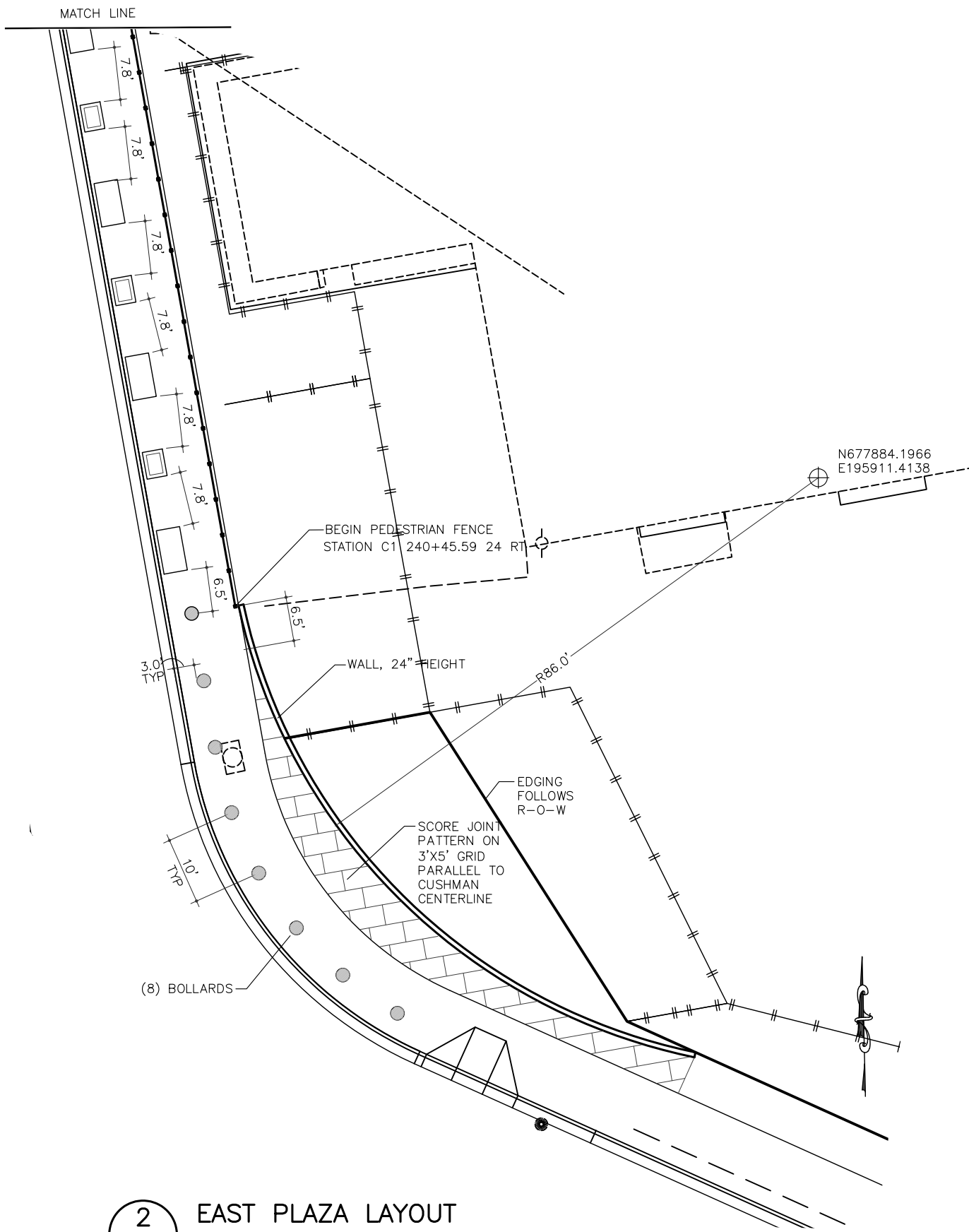
LANDSCAPE PLAN

PLANS DEVELOPED BY:
 EARTHSCAPE, LLC

12/12/22

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 348-2373 CERT. OF AUTH. NO. AEC1 1102
 P:\Airport Cushman\landscape- airport way cushman\1- 05-1- redesign airport cushman-Layout1 Thu, Dec/22/22 08:57am
 (Eise) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2022	L9	L20



2
L8
EAST PLAZA LAYOUT

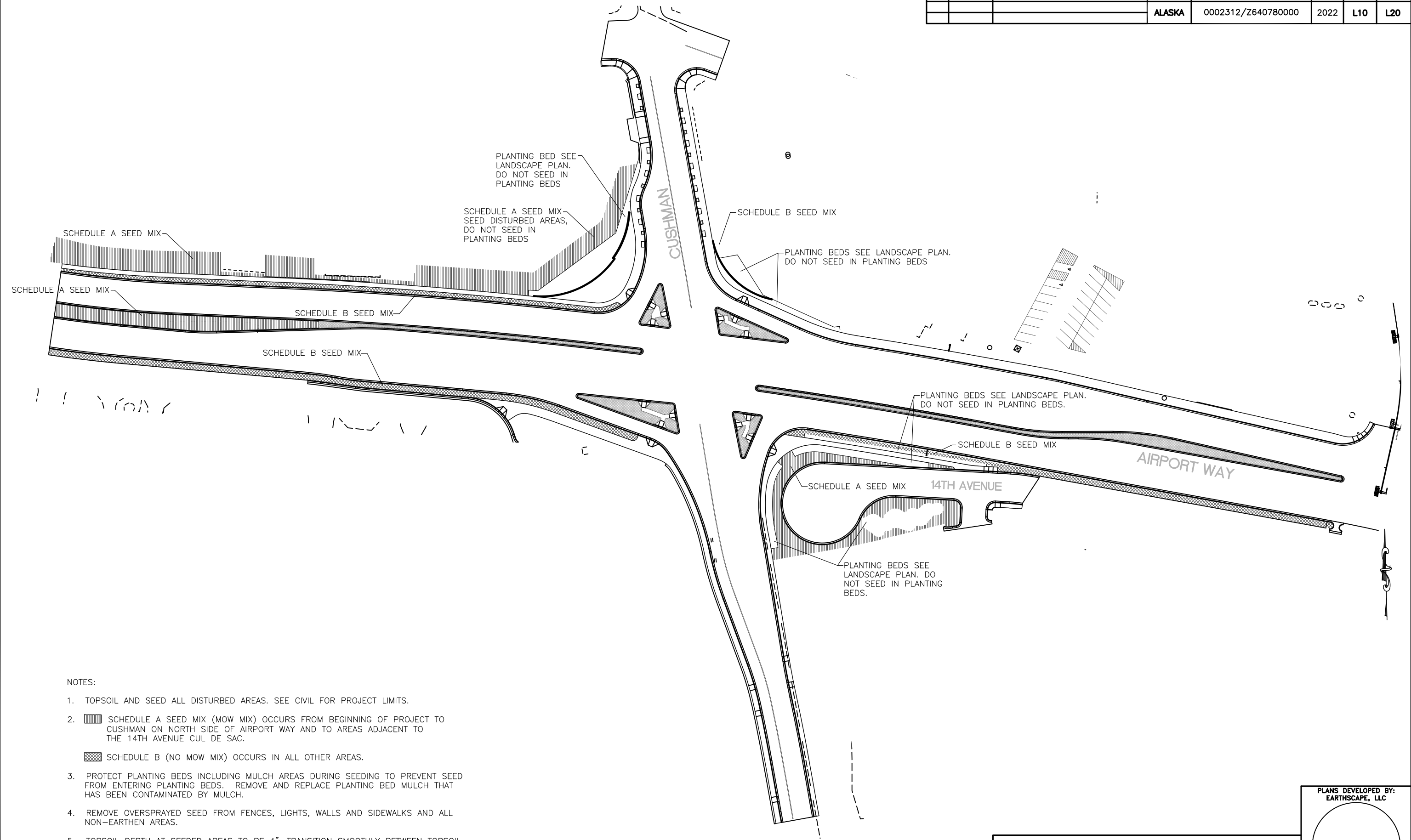
LANDSCAPE PLAN

PLANS DEVELOPED BY:
EARTHSCAPE, LLC

12/12/22

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 348-2373 CERT. OF AUTH. NO. AEC1 1102
 P:\Airport Cushman\landscape- airport way cushman\1- 05-1- redesign airport cushman-layout\104, Dec/21/22 01:25pm
 (Else) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2022	L10	L20



NOTES:

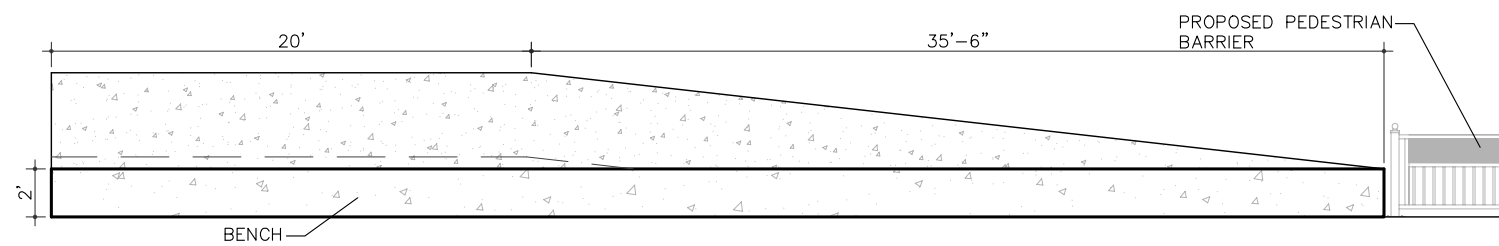
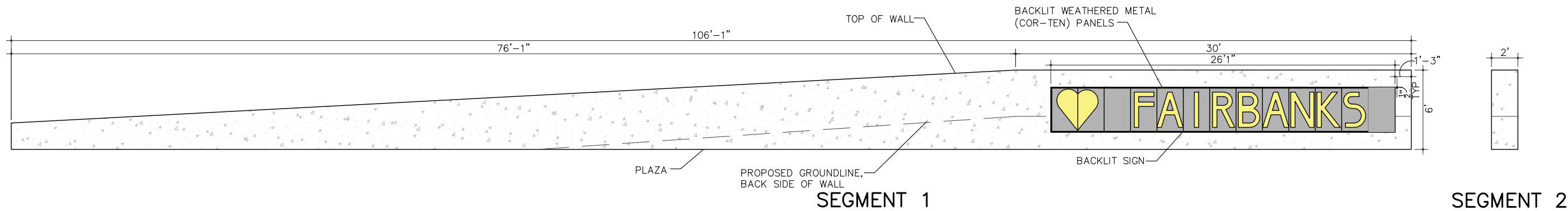
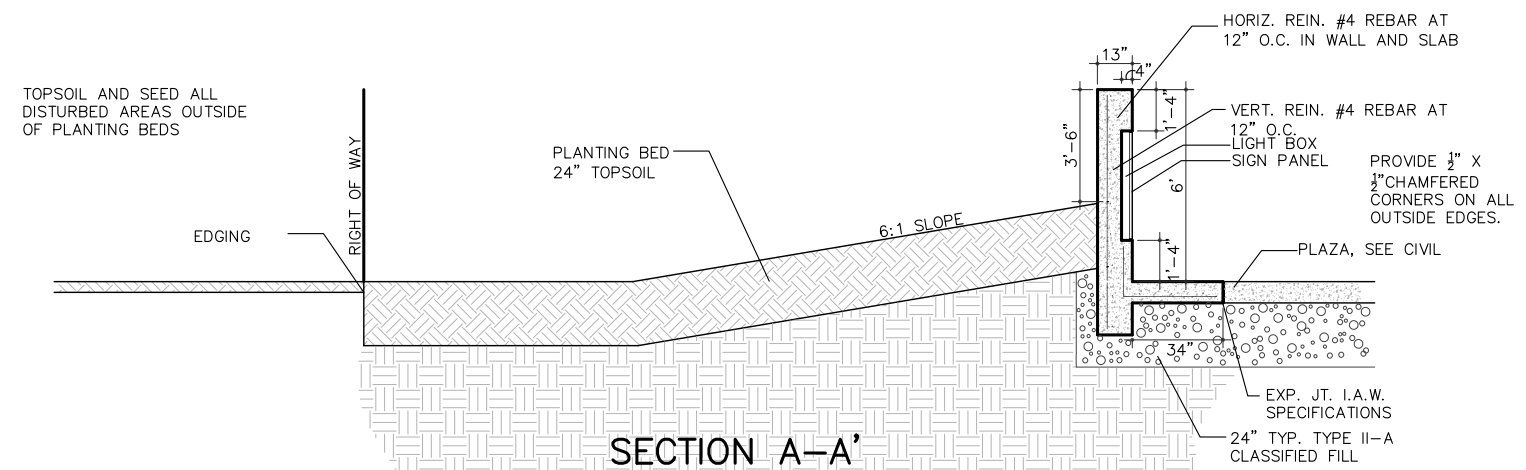
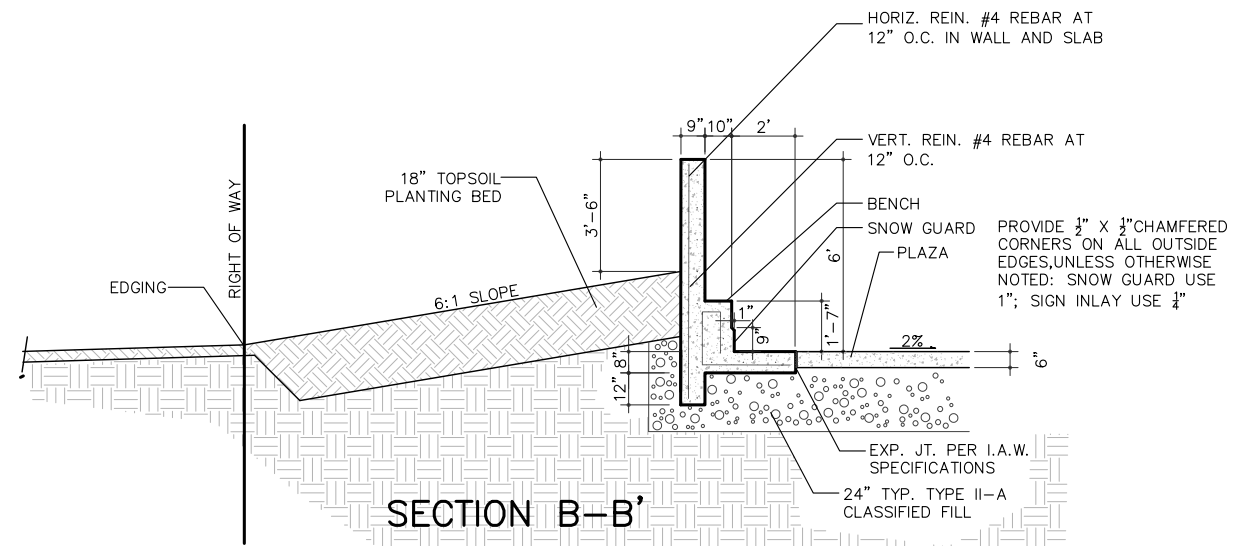
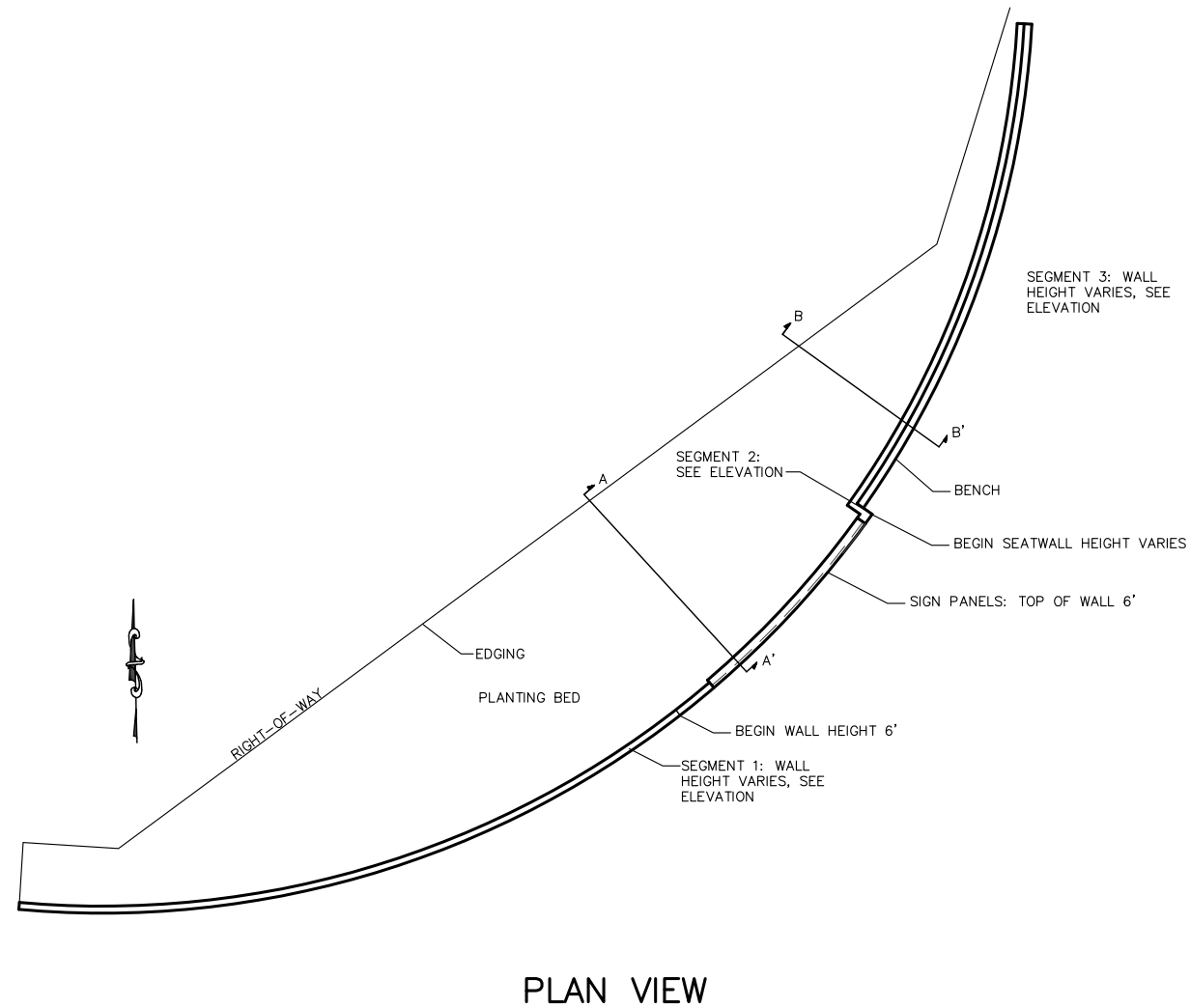
1. TOPSOIL AND SEED ALL DISTURBED AREAS. SEE CIVIL FOR PROJECT LIMITS.
2. SCHEDULE A SEED MIX (MOW MIX) OCCURS FROM BEGINNING OF PROJECT TO CUSHMAN ON NORTH SIDE OF AIRPORT WAY AND TO AREAS ADJACENT TO THE 14TH AVENUE CUL DE SAC.
3. SCHEDULE B (NO MOW MIX) OCCURS IN ALL OTHER AREAS.
3. PROTECT PLANTING BEDS INCLUDING MULCH AREAS DURING SEEDING TO PREVENT SEED FROM ENTERING PLANTING BEDS. REMOVE AND REPLACE PLANTING BED MULCH THAT HAS BEEN CONTAMINATED BY MULCH.
4. REMOVE OVERSPRAYED SEED FROM FENCES, LIGHTS, WALLS AND SIDEWALKS AND ALL NON-EARTHEN AREAS.
5. TOPSOIL DEPTH AT SEEDED AREAS TO BE 4", TRANSITION SMOOTHLY BETWEEN TOPSOIL AND ADJACENT AREAS.

SEEDING PLAN

PLANS DEVELOPED BY:
EARTHSCAPE, LLC

12/12/22

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	00023120000780000	2022	L11	L20



WEST PLAZA ELEVATION AND CROSS SECTIONS

1
L11

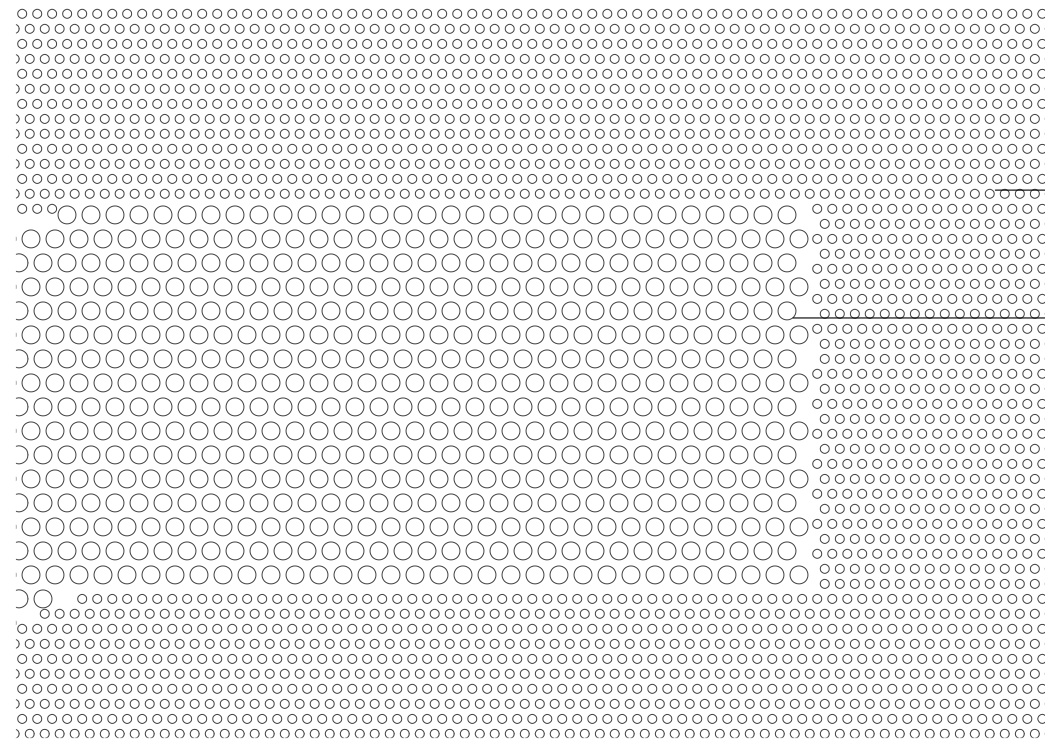
LANDSCAPE DETAILS

PLANS DEVELOPED BY:
EARTHSCAPE, LLC

12/12/22

PLANS DEVELOPED BY: EARTHSCAPE, LLC. CERT. AUTHORIZATION NO. AECL1007. 329 F. ST. SUITE 222, ANCHORAGE AK 99501 (907)279-2688
 P:\Airport_Cushman_Landscape-airport_way_cushman\1-1 95.1-reesign-airport_cushman-Landscape-Layout\Wed, Dec/21/22 01:26pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0002312/Z640780000	2022	L12	L20

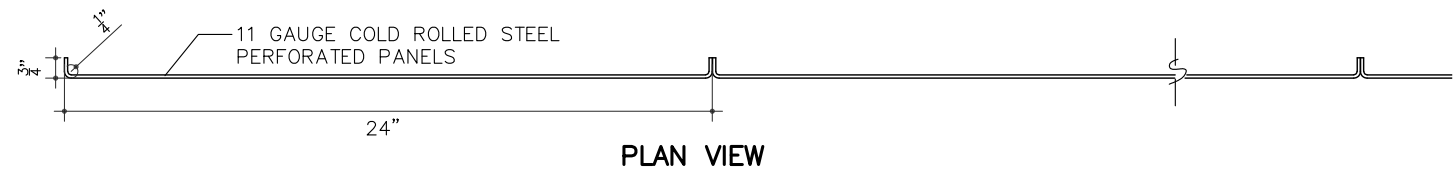
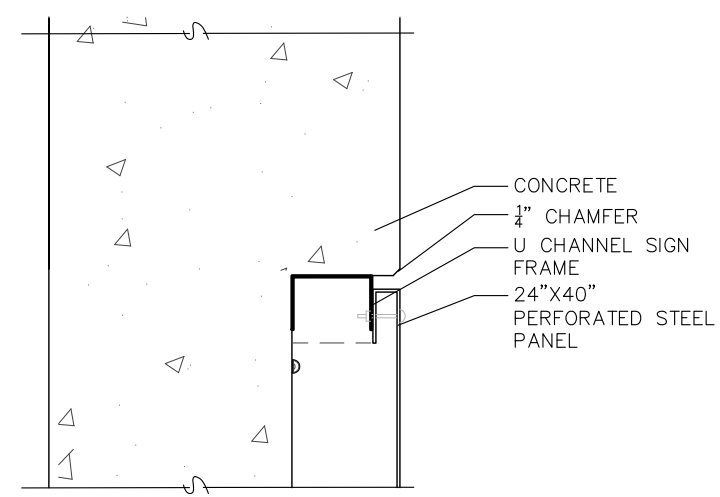


12 GAUGE(7/64)" WEATHERING STEEL(COR-TEN) PERFORATED PANEL

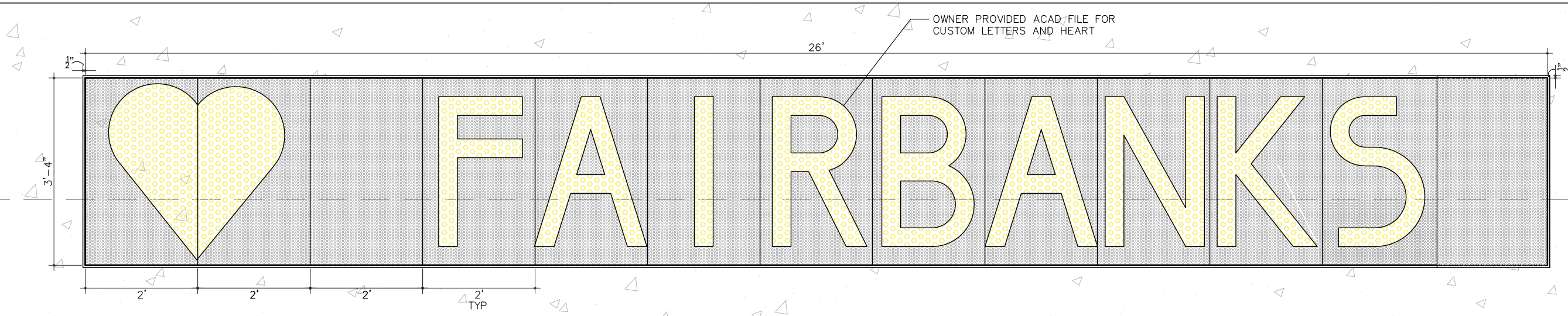
BACKGROUND USE: 3/32" ROUND ON 5/32" STAGGERED CENTERS, 33% OPEN AREA

LETTERS USE 3/16" ROUND ON 1/4" STAGGERED CENTERS, 51% OPEN AREA

PERFORATED PANEL LETTERING DETAIL
ACTUAL SIZE HOLE PATTERN & SIZES (FOR 11X17 PLOTS)



PERFORATED PANEL DETAIL



1
L12

WEST PLAZA SIGN DETAILS

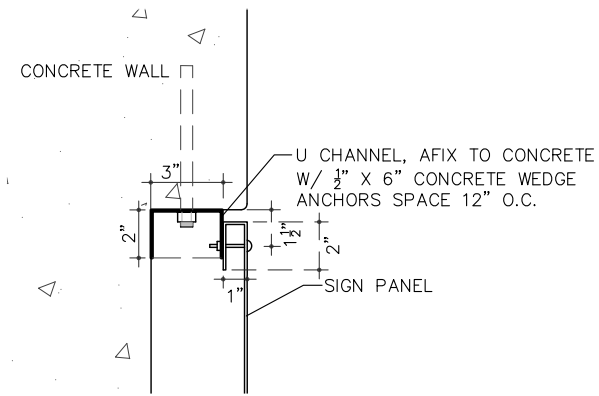
LANDSCAPE DETAILS

PLANS DEVELOPED BY:
EARTHSCAPE, LLC

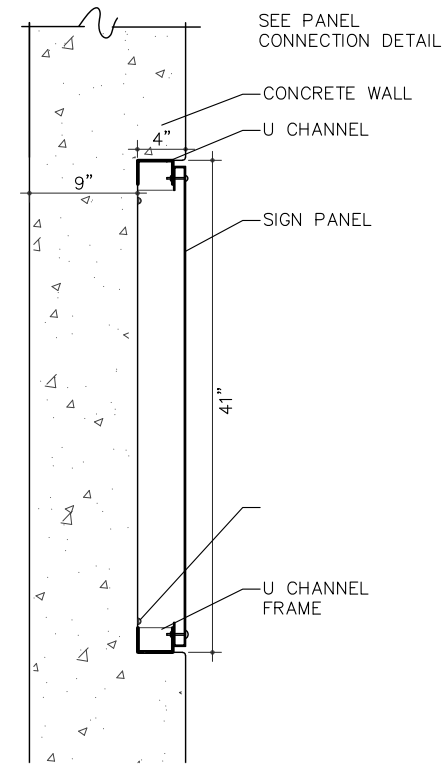
12/12/22

PLANS DEVELOPED BY: EARTHSCAPE, LLC. CERT AUTHORIZATION NO. AECL1007_329 F ST SUITE 222, ANCHORAGE AK 99501 (907)279-2688
P:\Airport_Cushman\Landscape-airport way cushman\1-1 95.1-redesign airport cushman-Layout1 Thu, Dec 22 10:56am

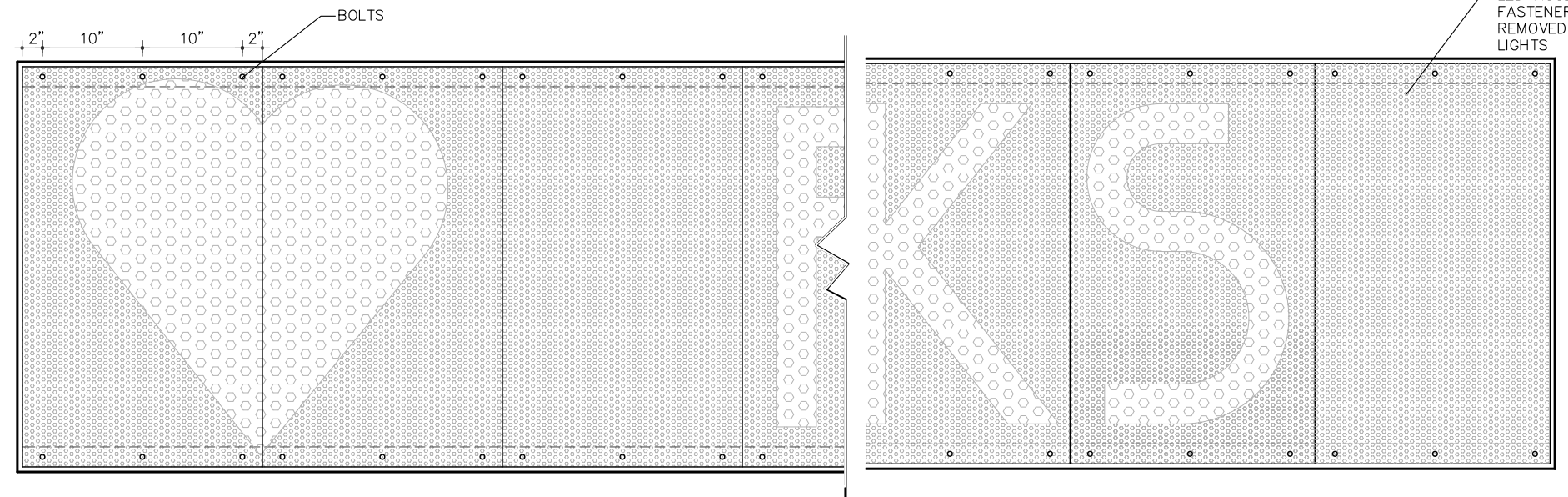
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0002312/Z640780000	2022	L13	L20



PANEL CONNECTION DETAIL



LIGHT BOX DETAILS



LIGHT BOX DETAILS

PLANS DEVELOPED BY: EARTHSCAPE, LLC. CERT AUTHORIZATION NO. AECL1007, 329 F ST SUITE 222, ANCHORAGE AK 99501 (907)279-2688
 P:\Airport_Cushman\Landscape-airport way cushman\1-185.1-reesign-airport cushman-LAYOUT1.Thru, Dec/22/22 10:56am

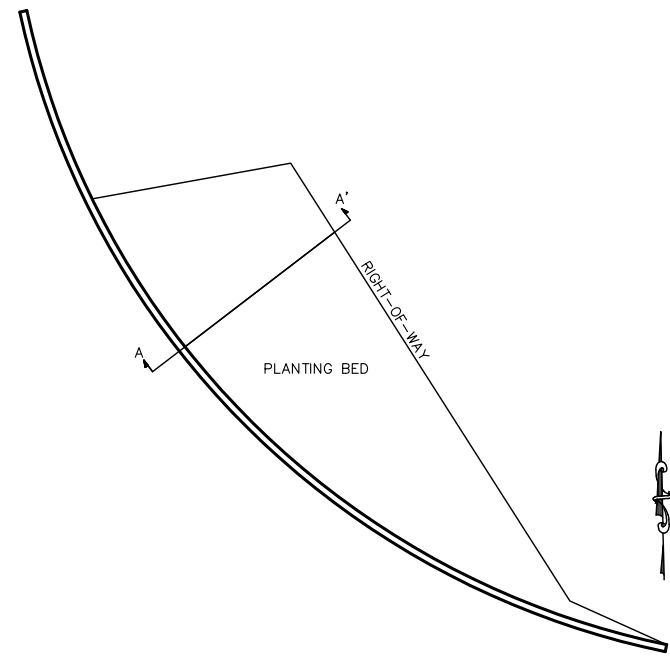
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L13

WEST PLAZA SIGN DETAILS

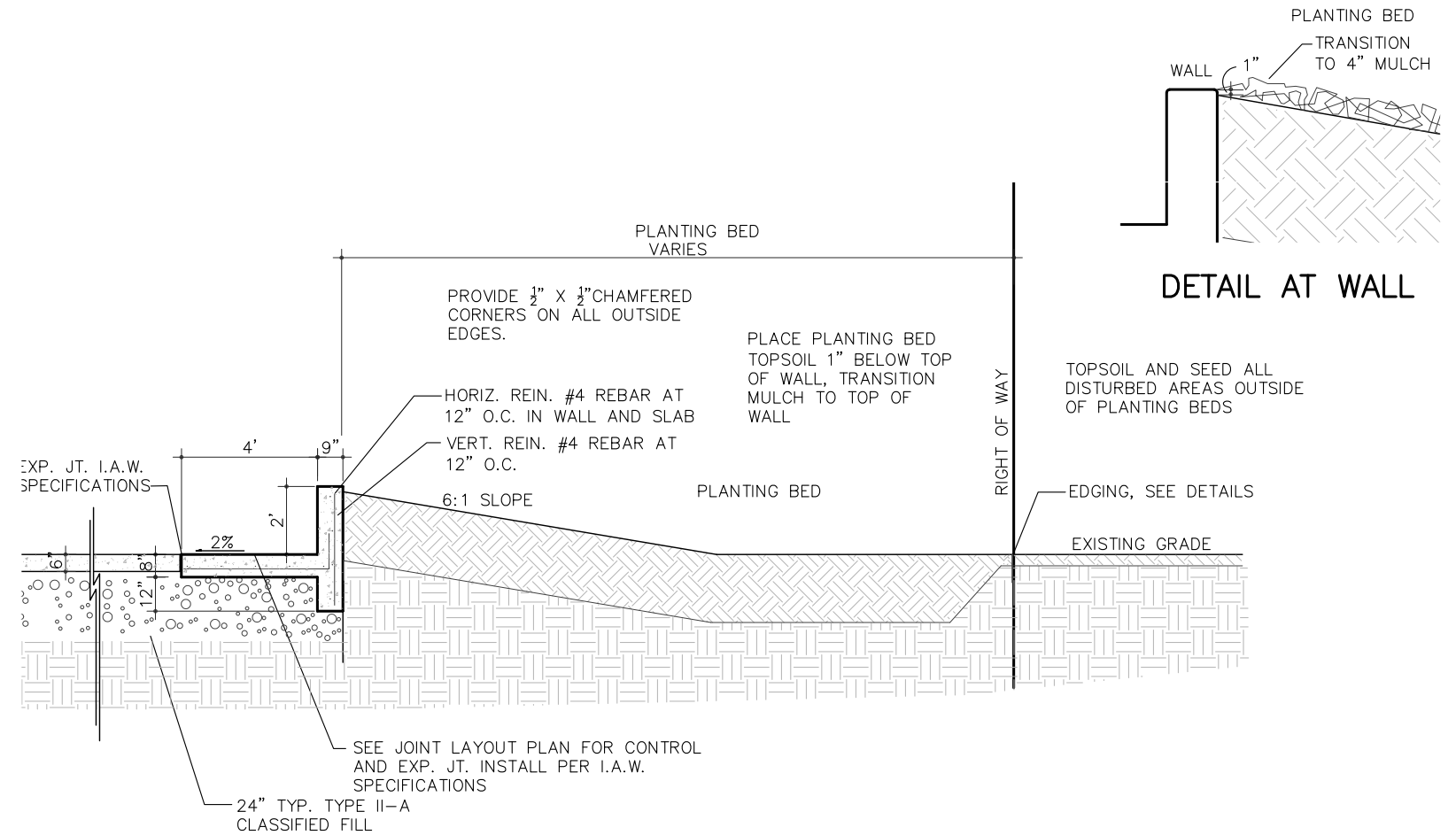
LANDSCAPE DETAILS

PLANS DEVELOPED BY:
EARTHSCAPE, LLC
12/12/22

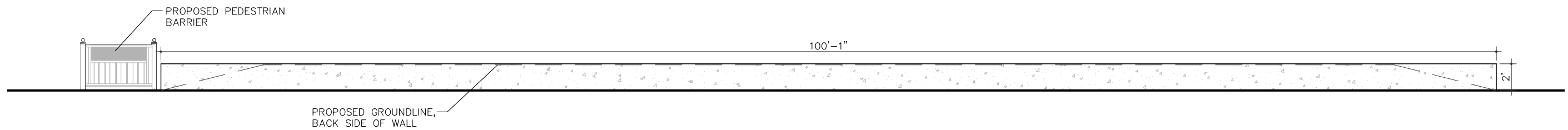
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0002312/Z640780000	2022	L14	L20



PLAN VIEW



SECTION A-A'



1
L14

EAST PLAZA ELEVATION AND CROSS SECTION

LANDSCAPE DETAILS

PLANS DEVELOPED BY:
EARTHSCAPE, LLC

12/12/22

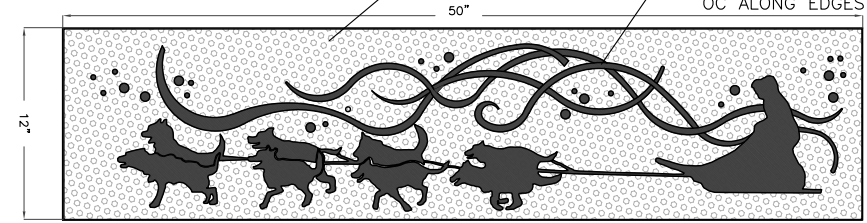
PLANS DEVELOPED BY: EARTHSCAPE, LLC. CERT AUTHORIZATION NO. AECL1007. 329 F ST SUITE 222, ANCHORAGE AK 99501 (907)279-2688
P:\Airport_Cushman_Landscape-airport_way_cushman\1-1 85.1-redesign-airport_cushman-Layout1 Wed, Dec/21/22 01:27pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0002312/Z640780000	2022	L15	L20

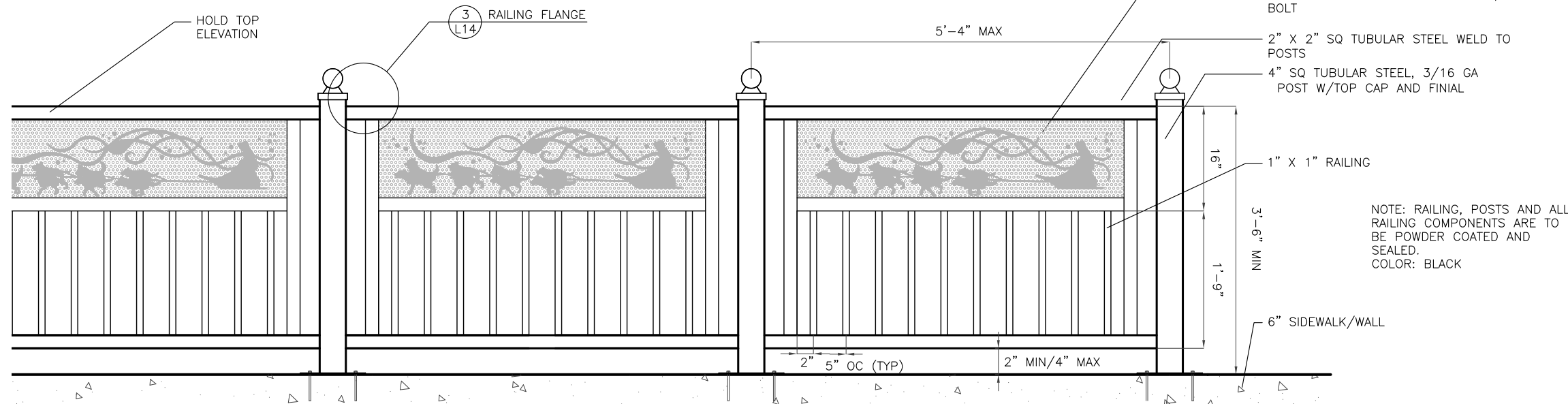
THIS PATTERN REPEATS FOR LOW PEDESTRIAN FENCE ALONG CUSHMAN

11 GAUGE PERFORATED STEEL WITH 3/16" Ø HOLES, 1/4" STAGGER

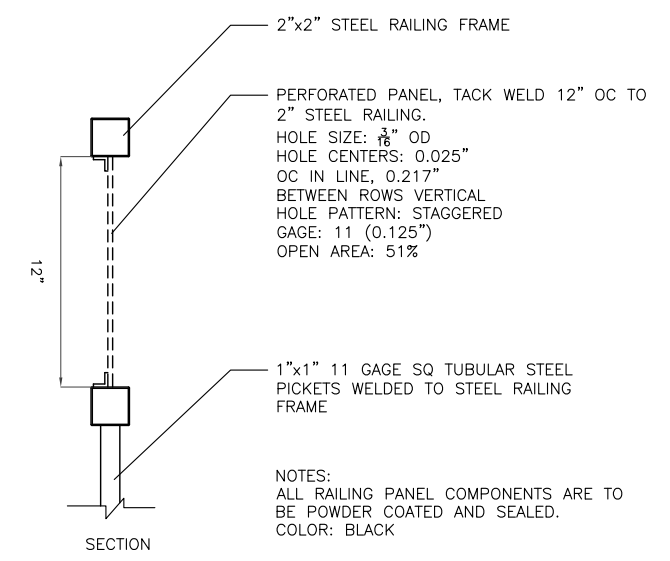
STAINLESS STEEL METAL SILHOUETTES, 1/8" THICK STEEL PLATE WELDED TO PERFORATED STEEL 16" OC ALONG EDGES



A. DECORATIVE PANEL ARTWORK

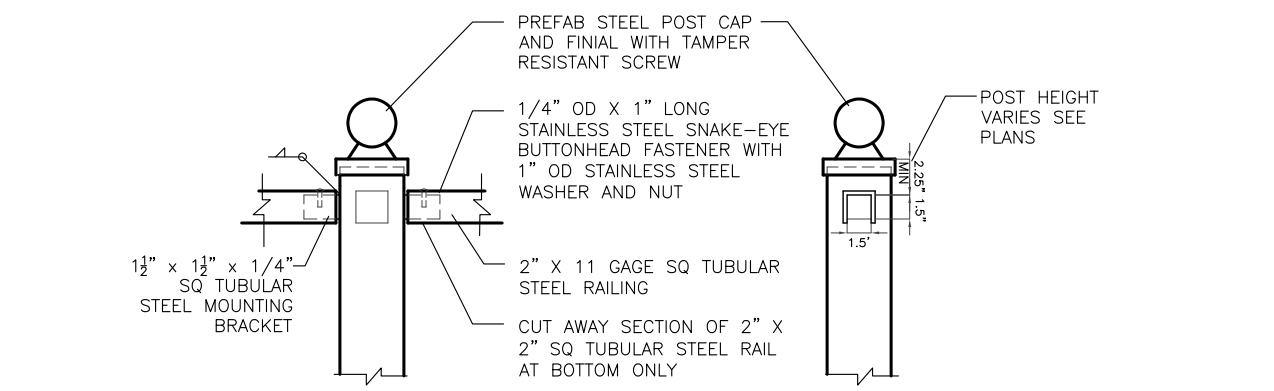
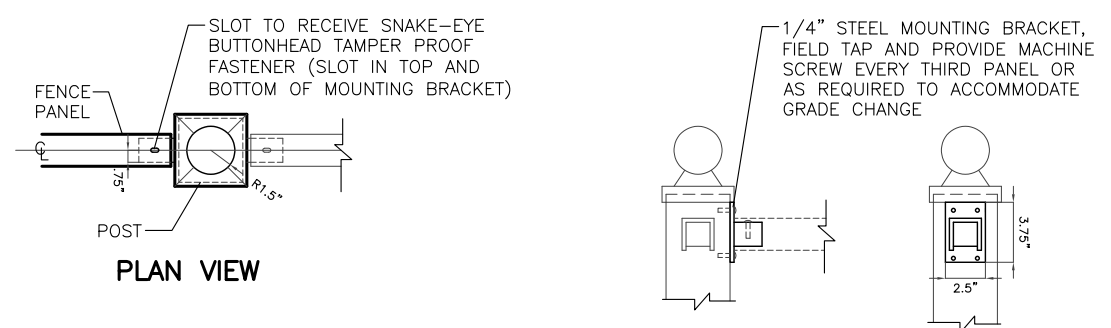


1 PEDESTRIAN FENCE DETAIL
L15

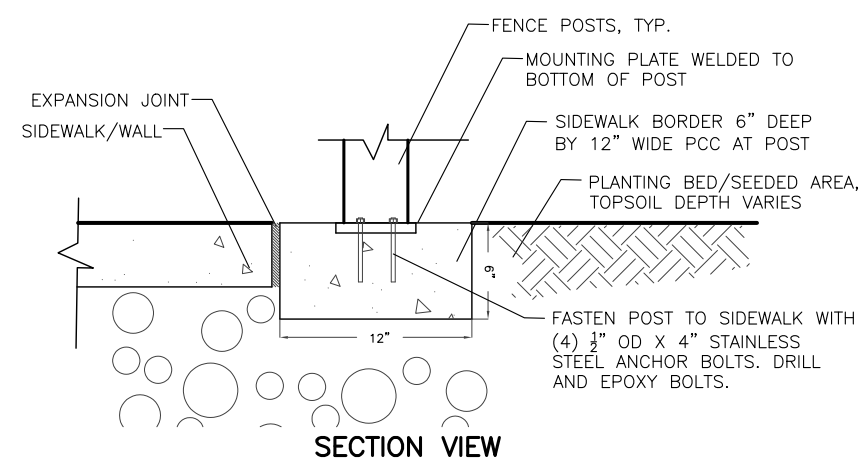


2 FENCE PANEL CONNECTION
L15

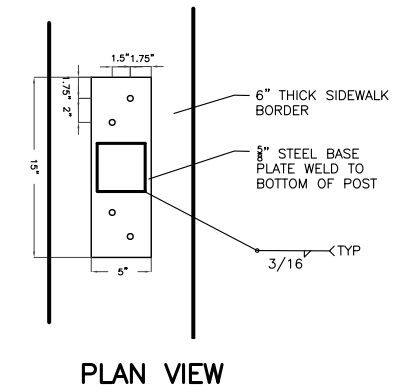
NOTE: RAILING, POSTS AND ALL RAILING COMPONENTS ARE TO BE POWDER COATED AND SEALED. COLOR: BLACK



3 FENCE RAILING FLANGE
L15

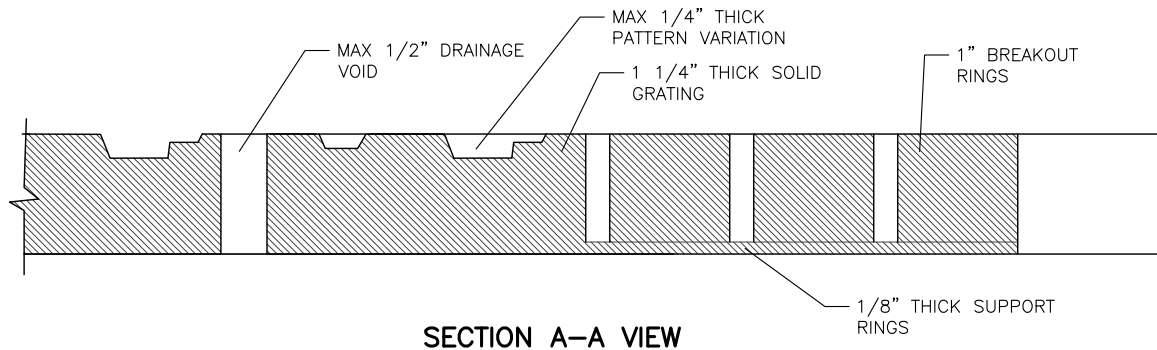


4 FENCE POST CONNECTION
L15

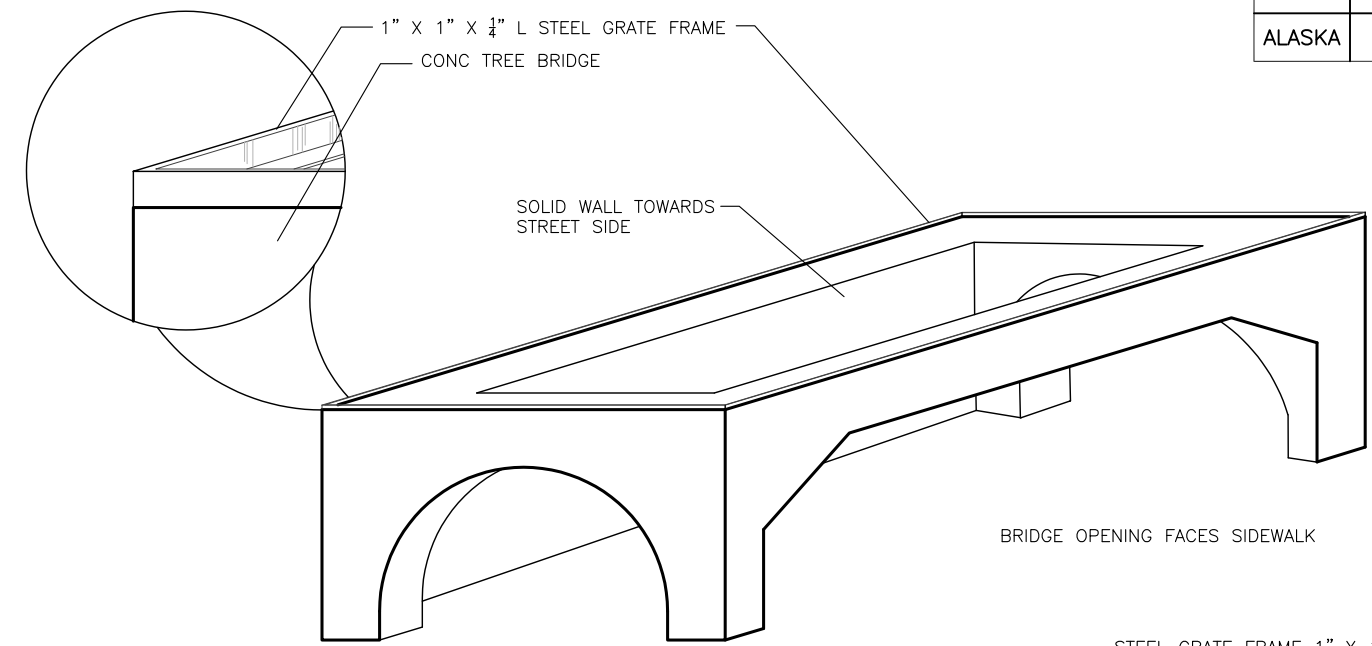


PLANS DEVELOPED BY: EARTHSCAPE, LLC. CERT AUTHORIZATION NO. AECL1007, 329 F ST SUITE 222, ANCHORAGE AK 99501 (907)279-2688
P:\Airport_Cushman\landscape-airport_way_cushman-2_95.1--redesign-airport_cushman-Layout1 Wed, Dec/21/22 01:13pm

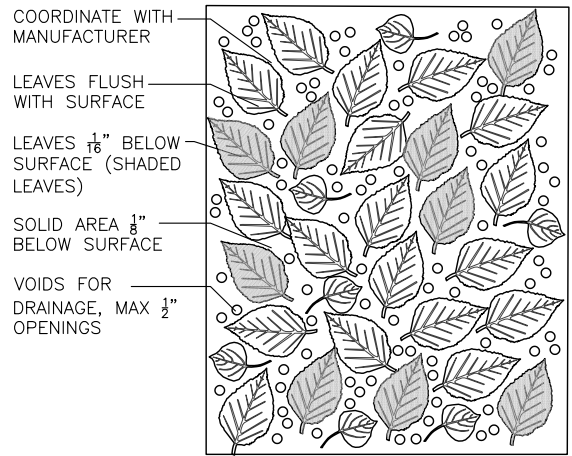
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0002312/Z640780000	2022	L16	L20



SECTION A-A VIEW

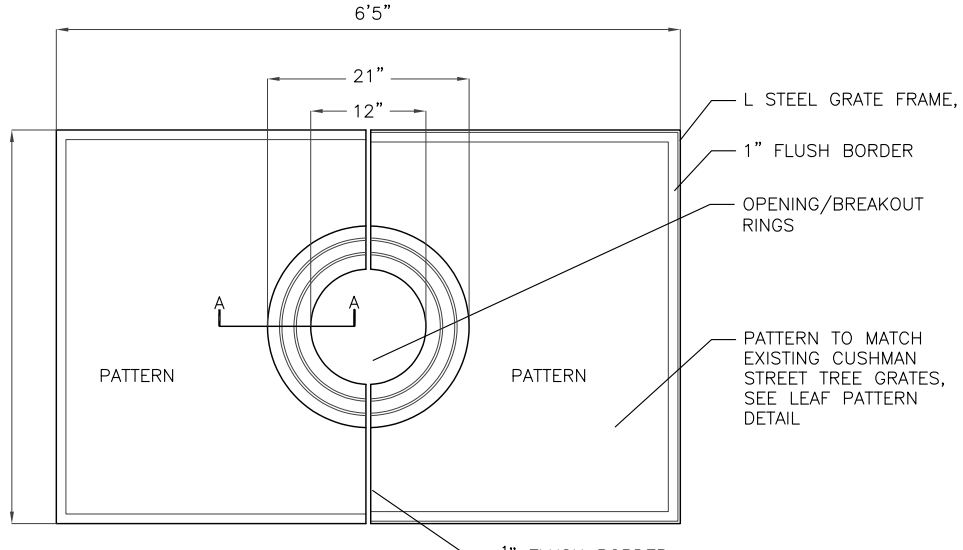


ISOMETRIC CONCRETE TREE BRIDGE



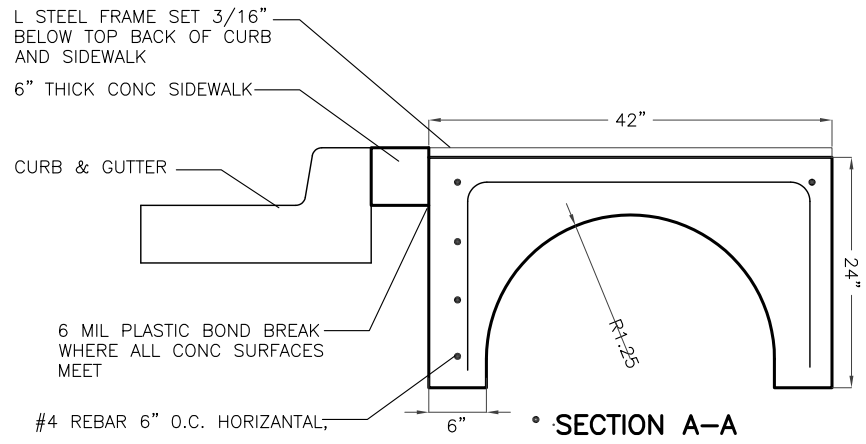
LEAF PATTERN DETAIL

- NOTES:
1. CAST IN TWO PIECES, EACH 1 1/4" THICK
 2. NO OPENINGS > 1/2"
 3. BREAKOUT RINGS AS SHOWN
 4. ARTWORK TO MATCH EXISTING TREE GRATES ON CUSHMAN, ACAD PATTERN AVAILABLE FROM OWNER



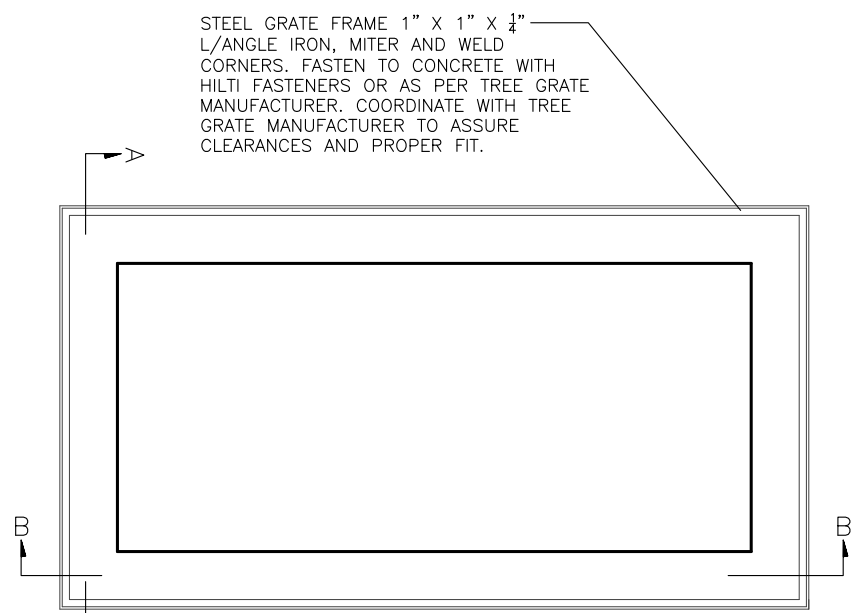
PLAN VIEW

1 TREE GRATE DETAIL
L16

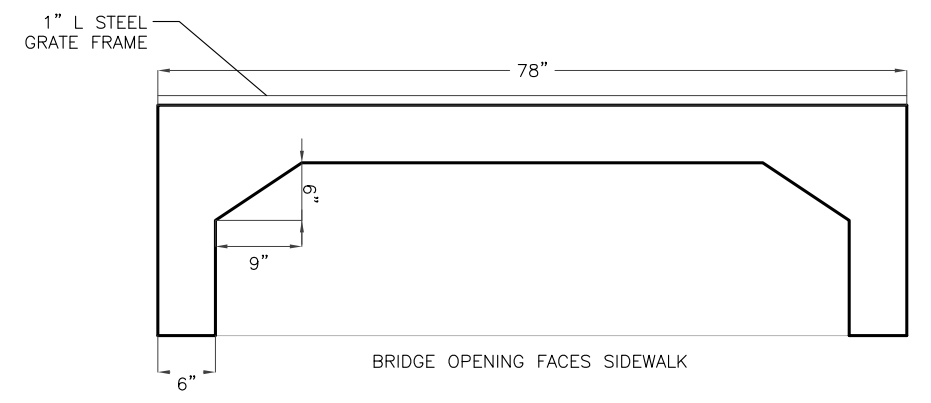


SECTION A-A

2 TREE BRIDGE AND GRATE FRAME
L16



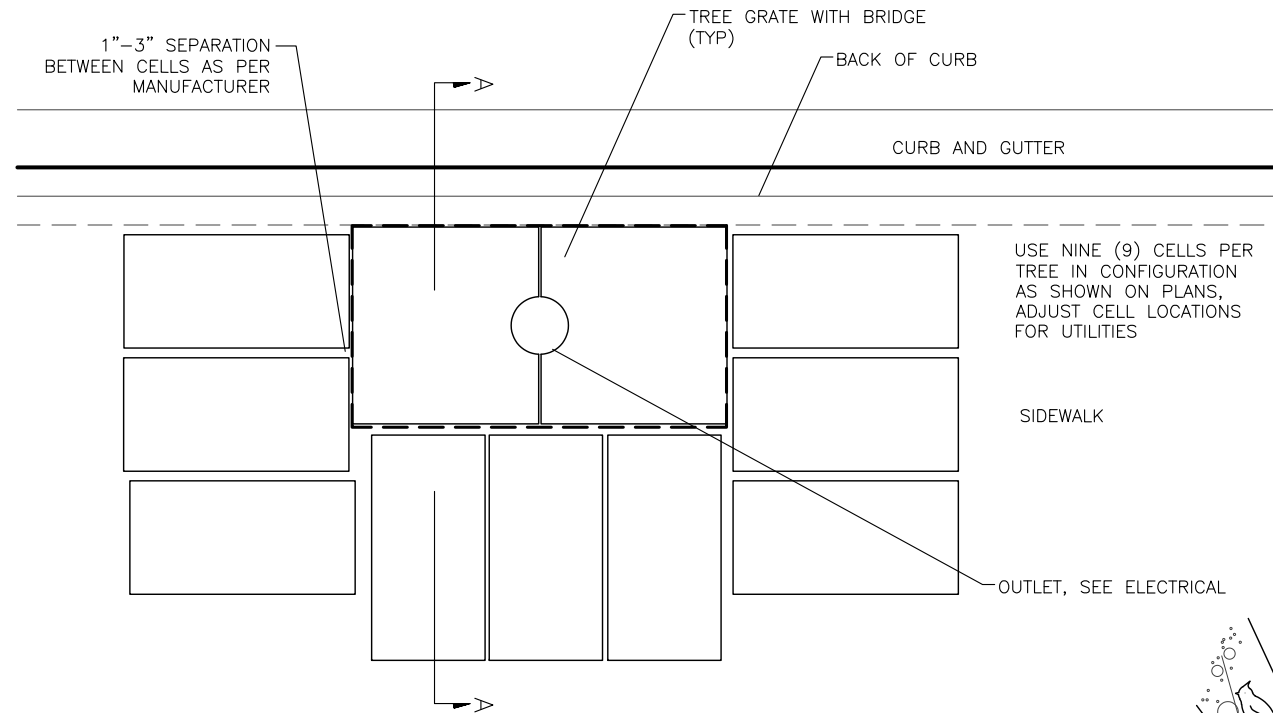
PLAN VIEW



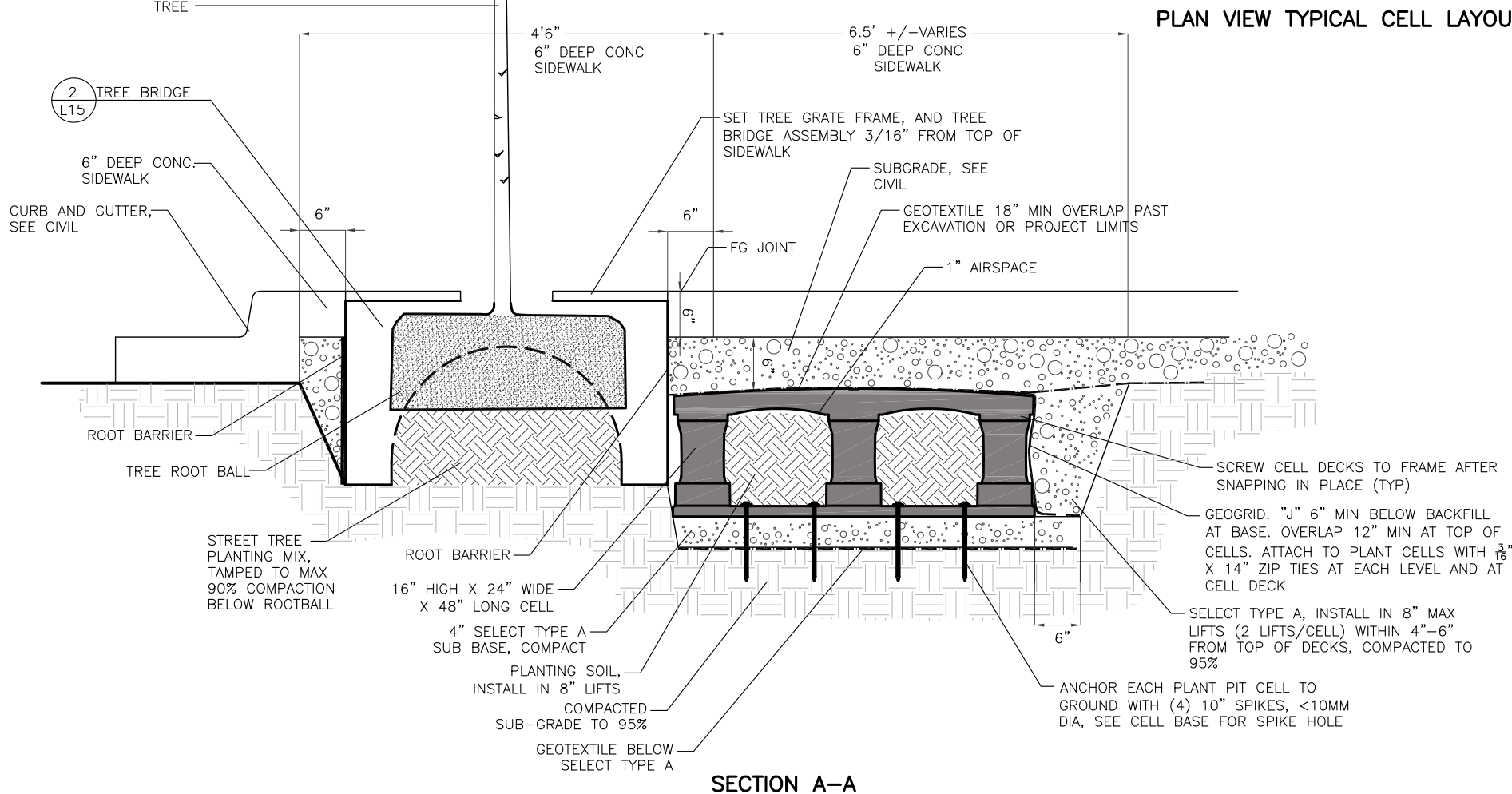
SECTION B-B

PLANS DEVELOPED BY: EARTHSCAPE, LLC. CERT AUTHORIZATION NO. AECL1007, 329 F ST SUITE 222, ANCHORAGE AK 99501 (907)279-2688
 P:\airport_cushman\landscape-airport_way_cushman\2_95.1--redesign_airport_cushman-LAYOUT1.dwg, Dec/21/22 01:14pm

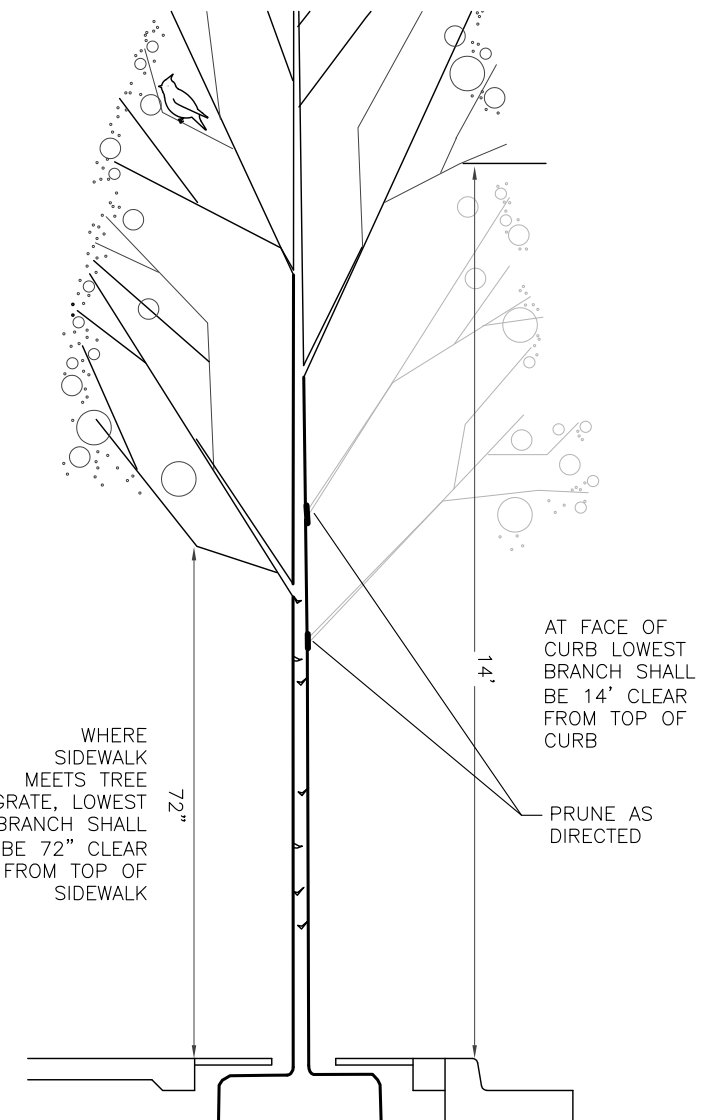
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0002312/Z640780000	2022	L17	L20



PLAN VIEW TYPICAL CELL LAYOUT



SECTION A-A



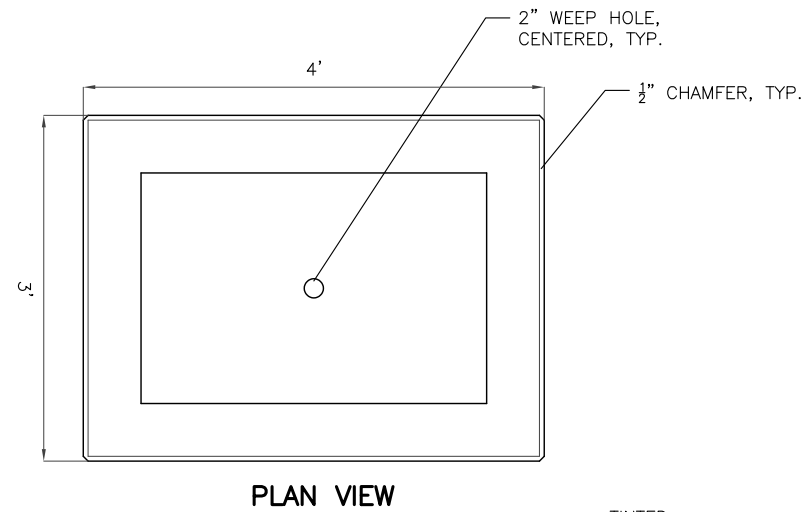
STREET TREE (BIRCH, TYPE A)

1
L17 STREET TREE PLANTING DETAIL

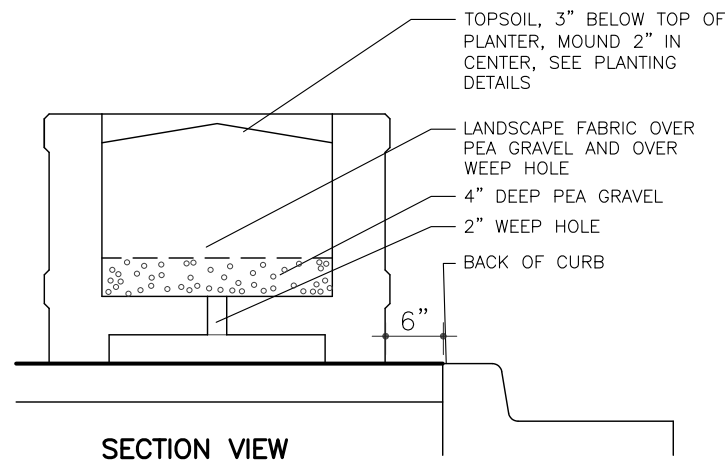
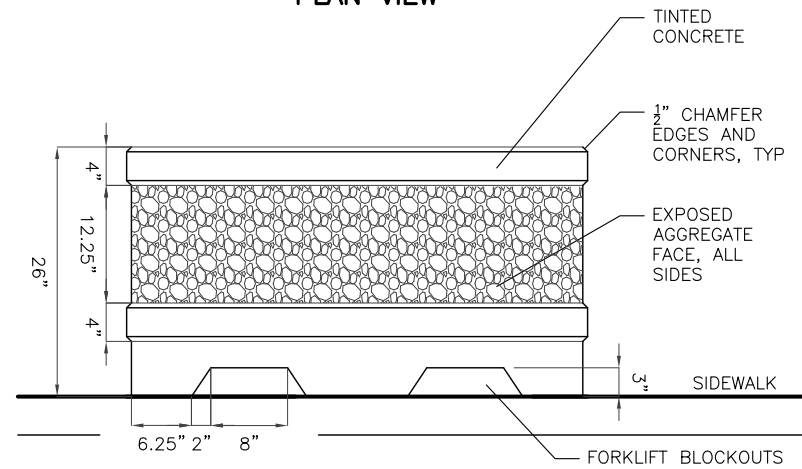
LANDSCAPE DETAILS

PLANS DEVELOPED BY: EARTHSCAPE, LLC. CERT AUTHORIZATION NO. AECL1007, 329 F ST SUITE 222, ANCHORAGE AK 99501 (907)279-2688
P:\Airport_Cushman\landscape-airport_roadway_cushman\2_95.1-redesign-airport_cushman-Landscape-Layout1.dwg, Dec/21/22 01:15pm

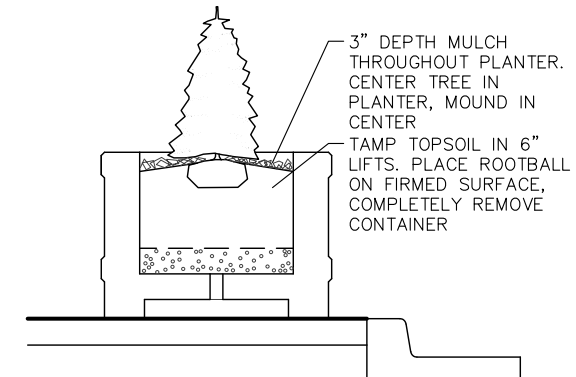
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0002312/Z640780000	2022	L18	L20



PLAN VIEW



SECTION VIEW

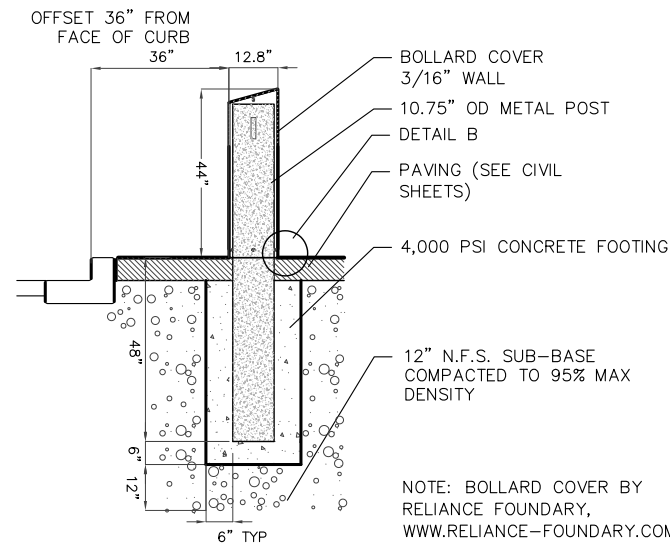


PLANTER - TREE PLANTING DETAIL

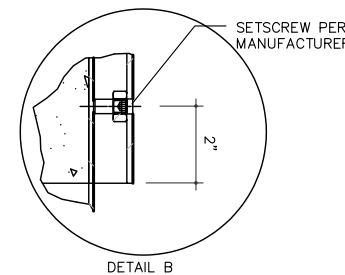
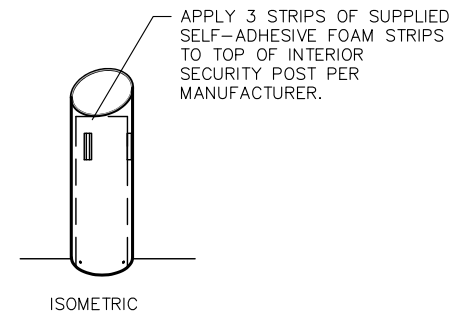
1
L18

PLANTER

2
L18



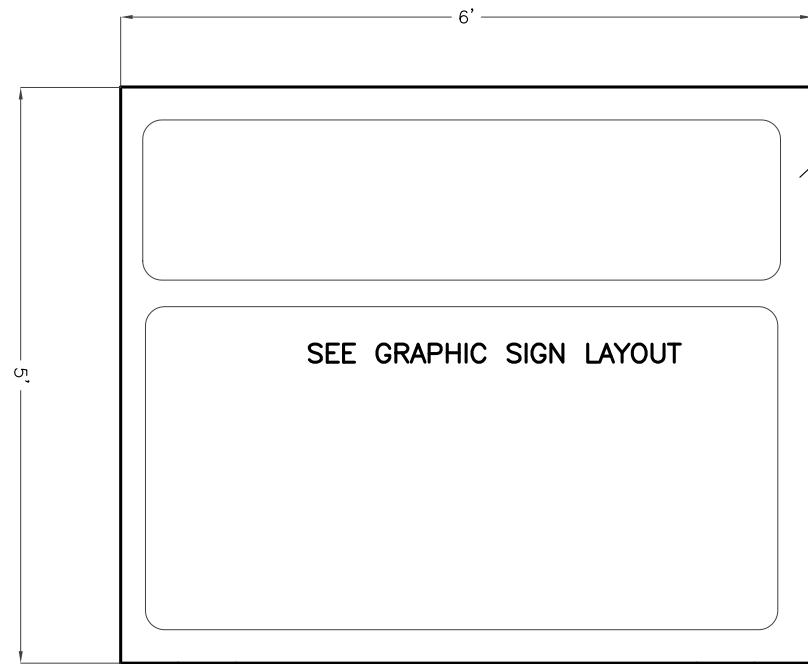
NOTE: BOLLARD COVER BY RELIANCE FOUNDARY, WWW.RELIANCE-FOUNDARY.COM, 1-877-789-3245 MODEL R-7314



3
L18

BOLLARD AT PLAZA

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0002312/Z640780000	2022	L19	L20



EXTRUDED ALUMINUM PANELS WITH ORACAL HIGH-INTENSITY WHITEREFLECTIVE SHEETING. HEADER: GOLDEN YELLOW TRANSPARENT VINYL OVERLAY BACKGROUND WITH REDDISH BROWN TRANSPARENT VINYL ON TOP TO CREATE COLOR FOR TYPOGRAPHY. MAIN PANEL: 051 GENTIAN BLUE WITH COPY AND GRAPHIC "KNOCKED OUT"

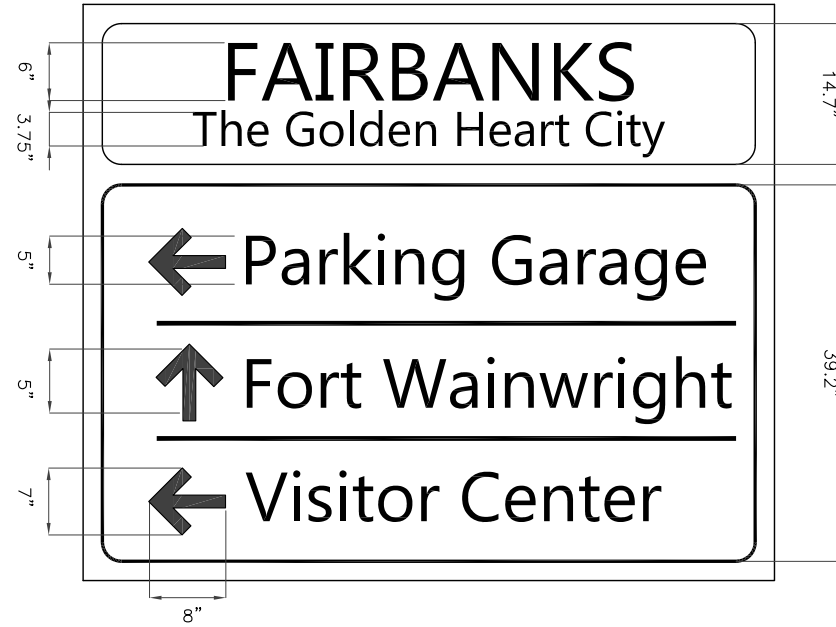
I-BEAM WITH 12' EXTRUDED ALUMINUM INCREMENTAL PANEL ATTACHMENT SYSTEM. USE APPROVED AKDOT POST CLIPS.

TBD
VARIES SIGN SPANS PATHWAY WITH MIN 8' VERTICAL CLEARANCE

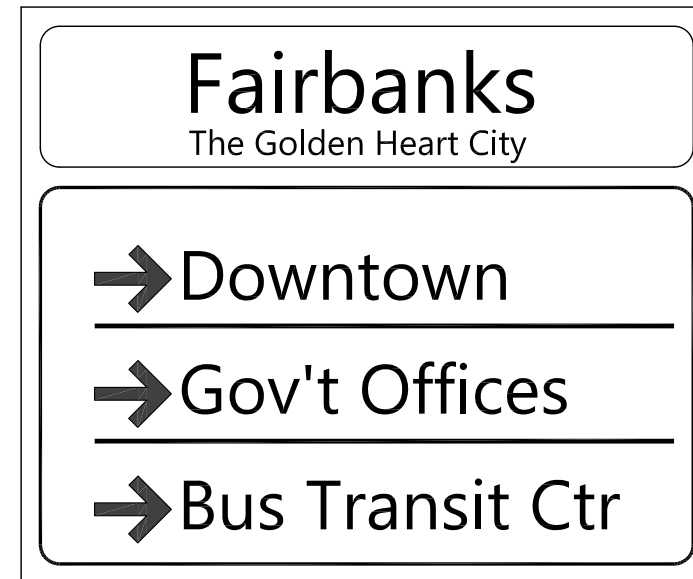
PROPOSED SIGNS ARE BASED ON CITY OF FAIRBANKS DOWNTOWN WAYFINDING SIGNAGE PLAN, JUNE 19, 2013 & APPENDIX A DESIGN INTENT DOCUMENT. SIGN NUMBER VO2 AND VO3.

ADOT APPROVED BREAKAWAY SUPPORT SYSTEM. FOUNDATION DETAILS, FOOTING DEPTH AND REINFORCEMENT TO BE STAMPED BY A PROFESSIONAL ENGINEER.

LETTER DIMENSIONS ARE CAPITAL HEIGHT



VO2 (SOUTH SIDE OF AIRPORT WAY)



VO3 (NORTH SIDE OF AIRPORT WAY)

GRAPHIC SIGN LAYOUT

NOTE: REFER TO CITY OF FAIRBANKS DOWNTOWN WAYFINDING SIGNAGE DOCUMENTS FOR DETAILS ON FONTS, COLORS, MATERIALS AND METHODOLOGIES

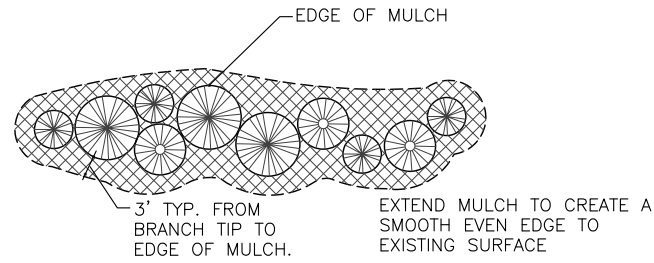
PLANS DEVELOPED BY: EARTHSCAPE, LLC. CERT AUTHORIZATION NO. AECL1007. 329 F ST SUITE 222, ANCHORAGE AK 99501 (907)279-2688
P:\Airport_Cushman\landscape-airport_way_cushman\1-2_95.1--redesign-airport_cushman-Landscape\1-2_95.1--redesign-airport_cushman-Landscape.dwg, Dec/21/22 01:16pm

1
L19

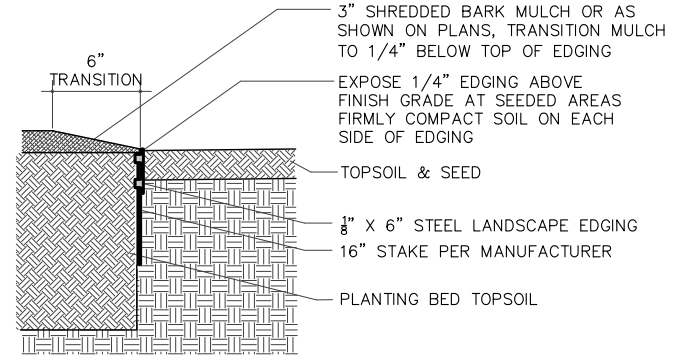
GX-2 VEHICLE GUIDE SIGN

LANDSCAPE DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0002312/Z640780000	2019	L20	L20

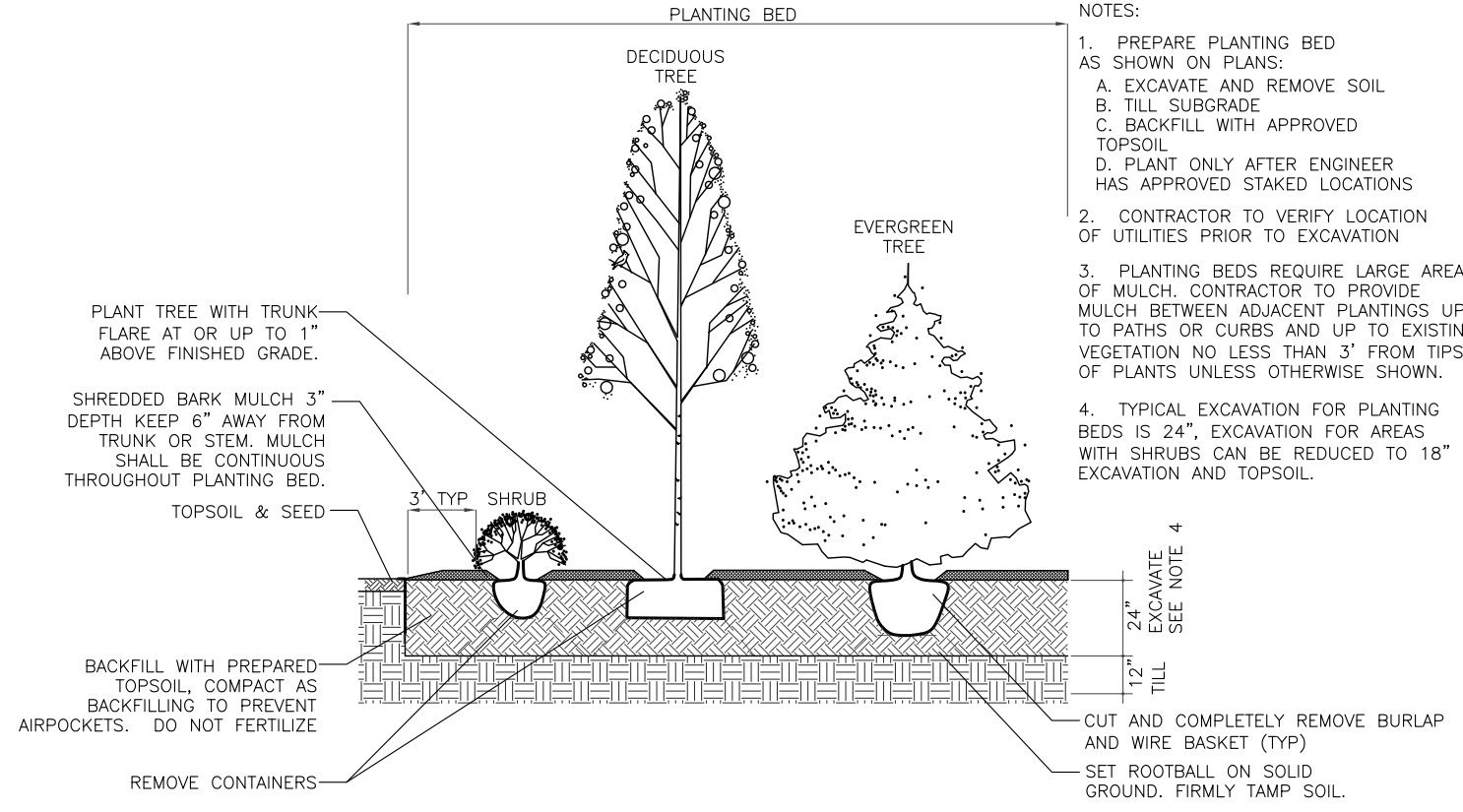


INSTALL EDGING PER MANUFACTURER'S INSTRUCTIONS, SECURE IN PLACE, TAMP ADJACENT SOILS FOR EVEN EXPOSURE. EDGING SHALL HAVE CONTINUOUS, SMOOTH LINES EVEN WITH ADJACENT GRADE.

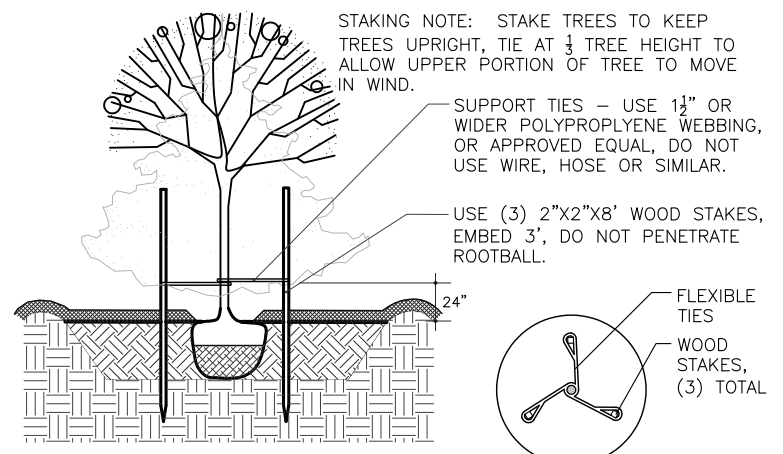


2 L20 EDGING DETAIL

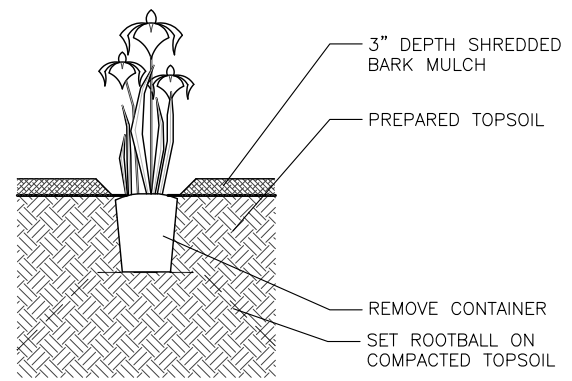
- NOTES:
- PREPARE PLANTING BED AS SHOWN ON PLANS:
 - EXCAVATE AND REMOVE SOIL
 - TILL SUBGRADE
 - BACKFILL WITH APPROVED TOPSOIL
 - PLANT ONLY AFTER ENGINEER HAS APPROVED STAKED LOCATIONS
 - CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO EXCAVATION
 - PLANTING BEDS REQUIRE LARGE AREAS OF MULCH. CONTRACTOR TO PROVIDE MULCH BETWEEN ADJACENT PLANTINGS UP TO PATHS OR CURBS AND UP TO EXISTING VEGETATION NO LESS THAN 3' FROM TIPS OF PLANTS UNLESS OTHERWISE SHOWN.
 - TYPICAL EXCAVATION FOR PLANTING BEDS IS 24", EXCAVATION FOR AREAS WITH SHRUBS CAN BE REDUCED TO 18" EXCAVATION AND TOPSOIL.



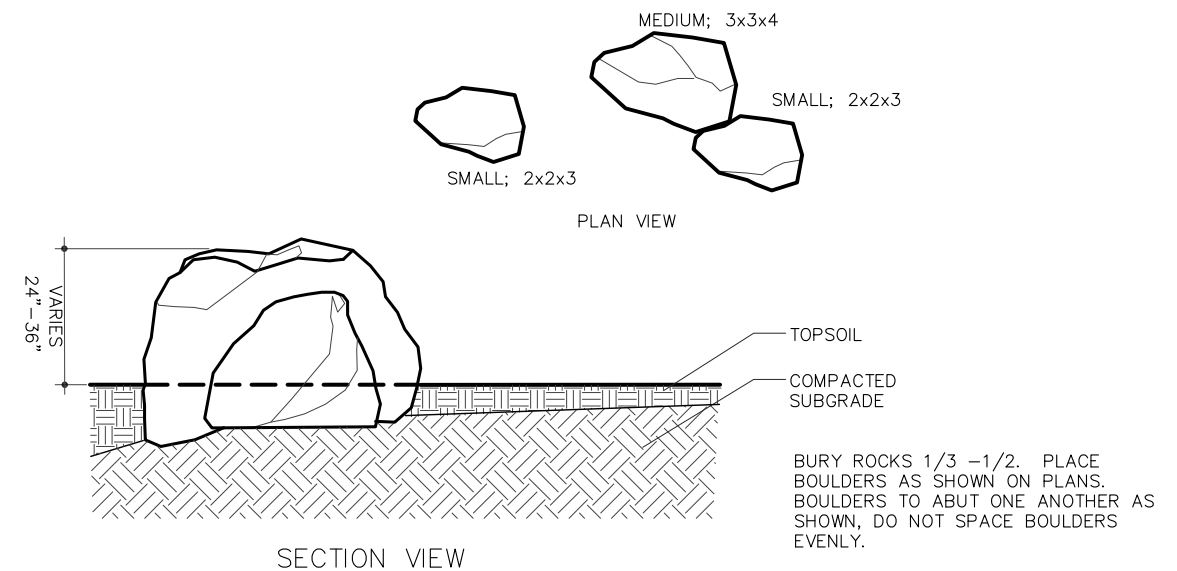
1 L20 PLANTING BED DETAIL



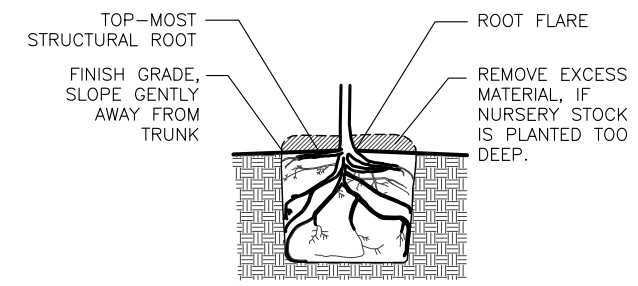
3 L20 TREE STAKING



4 L20 PERENNIAL PLANTING DETAIL



5 L20 BOULDER DETAIL



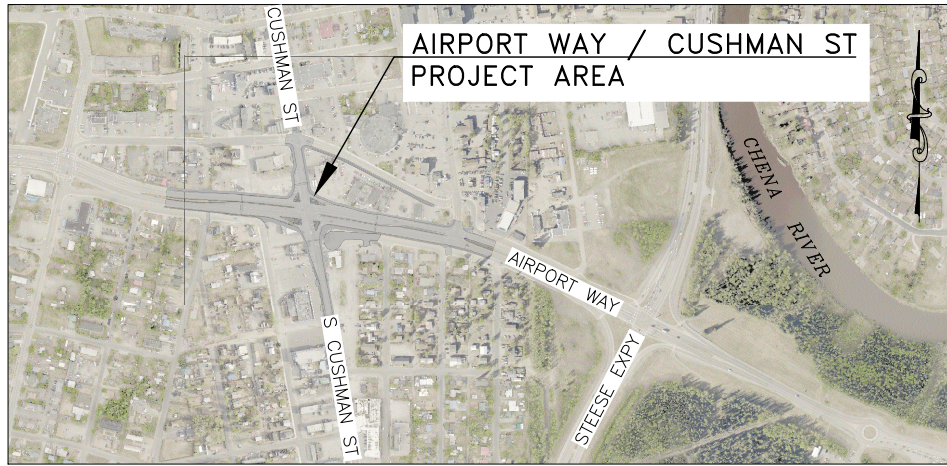
6 L20 PLANTING DEPTH DETAIL

LANDSCAPE DETAILS

PLANS DEVELOPED BY: EARTHSCAPE, LLC, CERT AUTHORIZATION NO. AECL1007, 329 F ST SUITE 222, ANCHORAGE AK 99501 (907)279-2688 P:\airport_cushman\landscape-airport_way_cushman\1-2_95.1-redesign_airport_cushman-Landscape-Layout1 Wed, Dec/21/22 01:16pm

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
Z:\PROJECTS\DOTPF\385_airport_&_cushman_reconstruction\DWGS\c\Sheets\64078_01-02_ESCP-01_Thu, Dec/22/22 11:01am (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	Q1	Q2



ESCP VICINITY MAP

SITE INFORMATION:

1. FOR GENERAL LOCATION MAP SEE VICINITY MAP ON SHEET A1 AND USGS FAIRBANKS (D-2) SE QUADRANGLE, T1S, R1W, SECTION 10, FAIRBANKS MERIDIAN.
2. SITE FUNCTION: ROAD.
3. AVERAGE ANNUAL PRECIPITATION: 10.53 INCHES (SOURCE: WESTERN REGIONAL CLIMATE CENTER) FOR FAIRBANKS WSO AIRPORT.
4. 2-YEAR, 24-HOUR RAINFALL EVENT: 1.09 INCHES (SOURCE: HTTP://HDCS.NWS.NOAA.GOV/HDSC/PFDS/PFDS_MAP_AK.HTML) FOR FAIRBANKS
5. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING LOCATIONS FOR STOCKPILING MATERIAL AND STAGING AND STORING EQUIPMENT. STAGING AND STOCKPILE AREAS MUST COMPLY WITH CGP, SWPPP, SECTION 641, AND ALL PERMITS.
6. PROJECT AREAS ARE LISTED BELOW (MATERIAL SITES NOT INCLUDED):

PROJECT INFORMATION TABLE	
PROJECT AREA (ACRE)	12.18 ACRES
DISTURBED AREA (ACRE)	7.14 ACRES
PRE-CONSTRUCTION IMPERVIOUS AREA	85%
POST-CONSTRUCTION IMPERVIOUS AREA	92%
PRE-CONSTRUCTION RUNOFF COEFFICIENT	0.81
POST-CONSTRUCTION RUNOFF COEFFICIENT	0.85

7. LANDSCAPE TOPOGRAPHY: VERY FLAT AND HIGHLY URBANIZED WITH RESIDENTIAL AND COMMERCIAL DEVELOPMENTS SURROUNDING THE PROJECT INTERSECTION.
8. DRAINAGE PATTERNS: SURFACE DRAINAGE AND PIPED STORM DRAINS FLOW TO CHENA RIVER.
9. SOILS: ALLUVIAL SAND AND GRAVEL OVERLAIN BY SILT AND ORGANIC SILT.
10. EXISTING VEGETATION: PROJECT AREA IS A MIX OF RESIDENTIAL AND COMMERCIAL WITH LIMITED LAWNS, SHRUBS AND TREES.
11. APPROXIMATE GROWING SEASON: MAY 3 THROUGH OCTOBER 3 (SOURCE: USACE WETLANDS DELINEATION MANUAL: ALASKA REGION (VERSION 2))

ESCP NOTES:

1. THIS PROJECT WILL RESULT IN GROUND DISTURBANCE OF GREATER THAN 1 ACRE AND REQUIRES A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A NOTICE OF INTENT (NOI) TO DISCHARGE FOR COVERAGE UNDER THE ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM (APDES) CONSTRUCTION GENERAL PERMIT (CGP).
2. READ AND COMPLY WITH THE CGP AND SECTION 641 OF THE PROJECT SPECIFICATIONS.
3. THIS EROSION SEDIMENT CONTROL PLAN (ESCP) IS GENERAL IN NATURE AND IS PROVIDED AS GUIDANCE TO THE CONTRACTOR FOR THE DEVELOPMENT OF THE:
 - SWPPP
 - HAZARDOUS MATERIAL CONTROL PLAN (HMCP)
 - SPILL PREVENTION, CONTROL AND COUNTERMEASURES (SPCC) PLAN
4. INITIATE EROSION AND SEDIMENT CONTROLS PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
5. THE CONTRACTOR SHALL SELECT AND APPLY APPROPRIATE CONTROLS TO PREVENT SEDIMENT AND OTHER POLLUTANTS FROM ENTERING THE PIPED STORM DRAIN SYSTEM.
6. EROSION AND SEDIMENT CONTROL FEATURES MUST BE BASED ON THE DOT&PF MANUAL ALASKA STORM WATER POLLUTION PREVENTION PLAN GUIDE (FEBRUARY 2011 OR LATEST VERSION) AND LATEST BMPs.
7. AT A MINIMUM, INLET PROTECTION (I.E., FILTER BAGS PLACED UNDER THE INLET GRATE) SHALL BE PROVIDED AT ALL INLETS WITHIN AND IMMEDIATELY ADJACENT TO THE PROJECT LIMITS.
8. SEE SHEET Q2 FOR LOCATIONS WHERE INLET PROTECTION IS ANTICIPATED AND FOR SURFACE RUNOFF DIRECTIONS. SURFACE RUNOFF DIRECTIONS SHOWN REPRESENT ROADWAY FINISHED GRADES. ROADWAY RUNOFF IS DIRECTED TO CURB AND GUTTER AT SIDES OF ROAD.
9. PROVIDE VEHICLE CLEANING EQUIPMENT, OR OTHER APPROVED CONTROLS, TO PREVENT TRACKING OF DIRT AND GRAVEL ONTO PAVED SURFACES.
10. ENSURE LOADS ARE STABLE AND COVERED SO THAT NO MATERIAL ESCAPES DURING HAULING ACTIVITIES.
11. STREET SURFACES ADJACENT TO THE WORK AREA SHALL BE SWEEPED DAILY TO COLLECT ANY SEDIMENT OR OTHER CONSTRUCTION DEBRIS TRACKED OFFSITE.
12. THE CONTRACTOR SHALL DESIGNATE A CONCRETE WASHOUT AREA ONSITE, AS NECESSARY, TO CONTAIN THE WASHOUT WATER AND RESIDUALS DURING CONCRETE WORK.
13. HAVE A SPILL KIT AVAILABLE AT EACH WORK AREA WHEN HEAVY EQUIPMENT IS BEING UTILIZED.
14. STOCKPILE AND STAGING LOCATION MUST BE RECLAIMED TO THEIR ORIGINAL CONDITION. STOCKPILES AND/OR STAGING AREAS ARE NOT ALLOWED IN WETLANDS.
15. ALL DISTURBED GROUND MUST BE PERMANENTLY STABILIZED.

ENVIRONMENTAL INFORMATION:

1. RECEIVING WATERS: CHENA RIVER
2. IMPAIRED WATERS: CHENA RIVER
3. TOTAL MAXIMUM DAILY LOADS (TMDL): NONE
4. STORM SEWER/DRAINAGE SYSTEMS: FAIRBANKS NORTH STAR BOROUGH MS4 CONSISTING OF PIPED AND SURFACE WATER DRAINAGE NETWORK AND ULTIMATELY DISCHARGES TO THE CHENA RIVER. THIS PROJECT INCLUDES MODIFICATIONS TO THIS SYSTEM.
5. THREATENED AND ENDANGERED SPECIES: NONE
6. HISTORICAL & CULTURAL RESOURCE PRESENCE: NONE
7. FISH & WILDLIFE HABITAT PRESENCE: TIME VEGETATION CLEARING TO COMPLY WITH THE MIGRATORY BIRD ACT. VEGETATION CLEARING WILL NOT BE ALLOWED DURING THE BIRD NESTING WINDOW, TYPICALLY MAY 1 - JULY 15, UNLESS A NEST SURVEY IS COMPLETED AND CONFIRMED THAT NO NESTS OR BIRDS WILL BE TAKEN.
8. WETLANDS: NO WETLANDS OR IN THE PROJECT AREA. THE CHENA RIVER IS WITHIN 2,500 FT OF PROJECT AREA.
9. EXISTING PUBLIC WATER SYSTEM (PWS) DRINKING WATER PROTECTION AREAS:
 - PWSID: AK2310730
 - WATER SYSTEM NAME: GOLDEN HEART UTILITIES
 - PWS CONTACT INFORMATION:
BERNIE STACK
(907) 455-0117
BERNIE@AKWATER.COM
P.O. BOX 80370, FAIRBANKS, AK 99708
10. DEWATERING OF GROUNDWATER AND/OR STORMWATER THAT ACCUMULATES IN AN EXCAVATION AREA WITHIN 1,500 FT OF A DEC-IDENTIFIED CONTAMINATED SITE REQUIRES AN EXCAVATION DEWATERING PERMIT FROM DEC. AN EXCAVATION DEWATERING PERMIT FROM DEC IS REQUIRED FOR THIS PROJECT.
11. THE FOLLOWING DEC IDENTIFIED CONTAMINATED SITES ARE LOCATED WITHIN 1,500 FEET OF THE PROJECT AREA:

- | | |
|--|--|
| <ul style="list-style-type: none">• HAZARD ID 2909, FILE NUMBER 100.38.117 (STATUS: CLEANUP COMPLETE)• HAZARD ID 1397, FILE NUMBER 102.38.027 (STATUS: ACTIVE)• HAZARD ID 24429, FILE NUMBER 102.26.100 (STATUS: CLEANUP COMPLETE)• HAZARD ID 24326, FILE NUMBER 102.26.051 (STATUS: CLEANUP COMPLETE)• HAZARD ID 24329, FILE NUMBER 102.26.052 (STATUS: CLEANUP COMPLETE)• HAZARD ID 4503, FILE NUMBER 102.38.084 (STATUS: ACTIVE)• HAZARD ID 24207, FILE NUMBER 102.26.097 (STATUS: CLEANUP COMPLETE)• HAZARD ID 25093, FILE NUMBER 102.26.150 (STATUS: CLEANUP COMPLETE)• HAZARD ID 24161, FILE NUMBER 102.26.010 (STATUS: CLEANUP COMPLETE)• HAZARD ID 25573, FILE NUMBER 102.38.084 (STATUS: ACTIVE)• HAZARD ID 24690, FILE NUMBER 102.26.084 (STATUS: CLEANUP COMPLETE)• HAZARD ID 3809, FILE NUMBER 102.38.108 (STATUS: CLEANUP COMPLETE)• HAZARD ID 23995, FILE NUMBER 102.26.083 (STATUS: CLEANUP COMPLETE)• HAZARD ID 25931, FILE NUMBER 102.38.172 (STATUS: ACTIVE)• HAZARD ID 2311, FILE NUMBER 102.38.062 (STATUS: CLEANUP COMPLETE)• HAZARD ID 711, FILE NUMBER 102.38.079 (STATUS: CLEANUP COMPLETE)• HAZARD ID 24169, FILE NUMBER 102.26.015 (STATUS: ACTIVE)• HAZARD ID 26690, FILE NUMBER 102.38.197 (STATUS: ACTIVE) | <ul style="list-style-type: none">• HAZARD ID 1932, FILE NUMBER 102.38.056 (STATUS: CLEANUP COMPLETE)• HAZARD ID 23153, FILE NUMBER 102.26.165 (STATUS: CLEANUP COMPLETE - INSTITUTIONAL CONTROLS)• HAZARD ID 24959, FILE NUMBER 102.26.072 (STATUS: CLEANUP COMPLETE)• HAZARD ID 24192, FILE NUMBER 102.26.060 (STATUS: CLEANUP COMPLETE)• HAZARD ID 25339, FILE NUMBER 102.26.167 (STATUS: CLEANUP COMPLETE - INSTITUTIONAL CONTROLS)• HAZARD ID 24400, FILE NUMBER 102.26.089 (STATUS: CLEANUP COMPLETE)• HAZARD ID 24367, FILE NUMBER 102.26.063 (STATUS: CLEANUP COMPLETE)• HAZARD ID 1393, FILE NUMBER 102.38.024 (STATUS: CLEANUP COMPLETE - INSTITUTIONAL CONTROLS)• HAZARD ID 24181, FILE NUMBER 102.26.062 (STATUS: CLEANUP COMPLETE)• HAZARD ID 3955, FILE NUMBER 102.38.119 (STATUS: CLEANUP COMPLETE - INSTITUTIONAL CONTROLS)• HAZARD ID 24347, FILE NUMBER 100.26.084 (STATUS: CLEANUP COMPLETE)• HAZARD ID 26035, FILE NUMBER 100.38.174 (STATUS: CLEANUP COMPLETE) |
|--|--|

ESCP LEGEND:

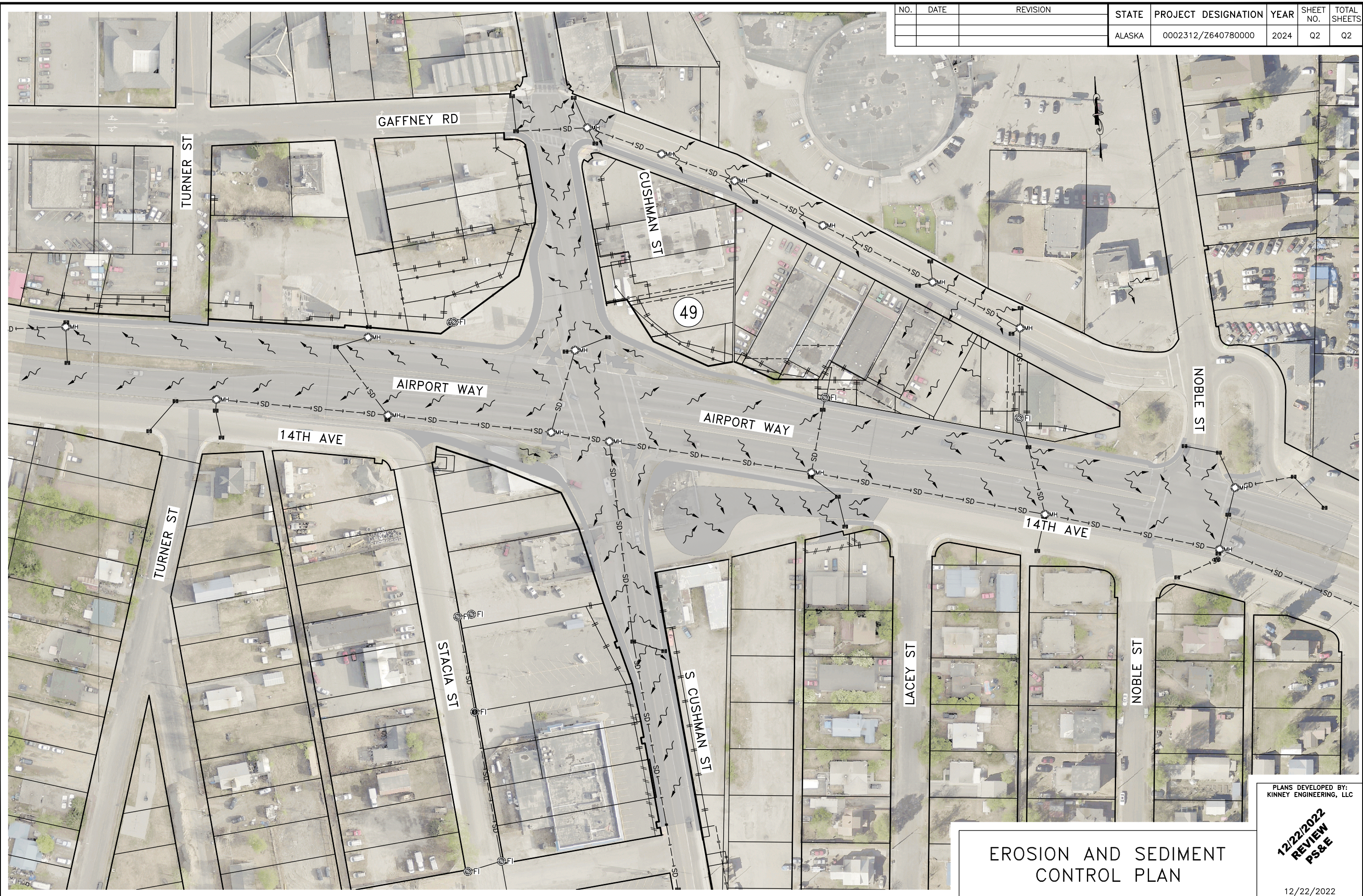
- PARCEL BOUNDARY
- TEMPORARY CULVERT INLET SEDIMENT TRAP
- EXISTING SURFACE WATER FLOW DIRECTION
- CATCH BASIN PROTECTION AREA
- # OF CATCH BASINS TO PROTECT
- SD PIPE & FLOW DIRECTION
- APPROXIMATE LIMITS OF EARTH DISTURBANCE
- CATCH BASIN
- FIELD INLET
- STORM DRAIN MANHOLE

EROSION AND SEDIMENT CONTROL PLAN

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	Q2	Q2

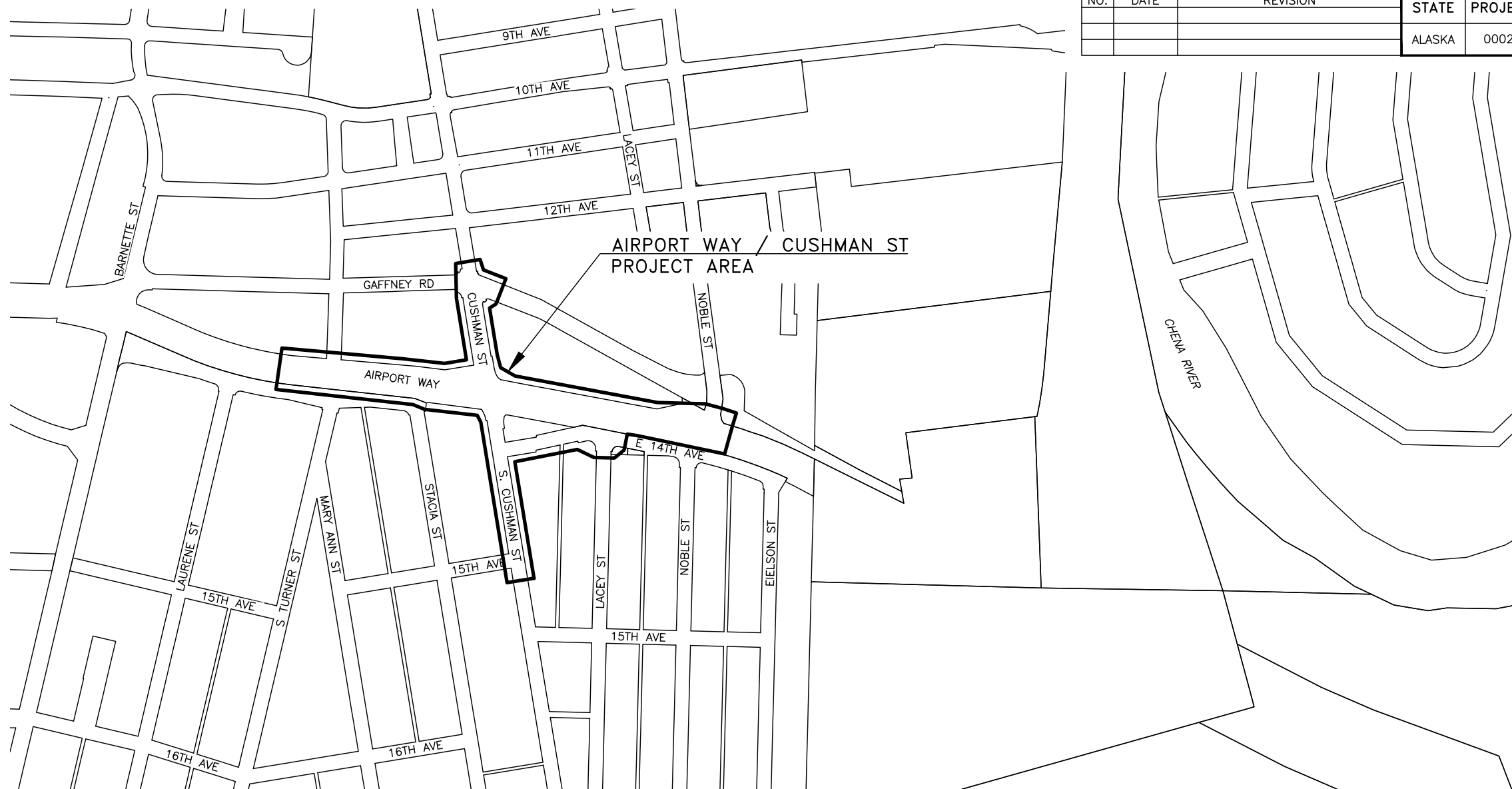


EROSION AND SEDIMENT CONTROL PLAN

PLANS DEVELOPED BY:
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
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			ALASKA	0002312/Z640780000	2024	T1	T3



GENERAL TRAFFIC CONTROL PLAN NOTES

1. THIS IS A GENERALIZED TRAFFIC CONTROL PLAN (TCP) TO SHOW ALLOWABLE LANE CLOSURES, ROAD CLOSURES, AND DETOUR ROUTES, AND LOCATIONS FOR PORTABLE CHANGEABLE MESSAGE BOARD SIGNS (CMS). THE CONTRACTOR SHALL DEVELOP AN APPROVED TCP AND AN APPROVED CONSTRUCTION PHASING PLAN IN ACCORDANCE WITH THIS PLAN AND SECTION 643 OF THE PROJECT SPECIFICATIONS.
2. PROVIDE ACCESS TO RESIDENTIAL PROPERTIES AT ALL TIMES.
3. PROVIDE ACCESS TO COMMERCIAL PROPERTIES DURING THEIR BUSINESS HOURS. CONTRACTOR SHALL CONTACT ALL BUSINESSES IN THE PROJECT AREA TO COORDINATE AND ENSURE ACCESS.
4. DRIVEWAYS ADJACENT TO AN EXCAVATION SHALL BE RAMPED TO PROVIDE ACCESS.
5. TCPS WHICH REQUEST CLOSURE OF ANY RESIDENTIAL OR COMMERCIAL ACCESS SHALL BE SUBMITTED FOR APPROVAL IN ACCORDANCE WITH SECTION 643. ANY ACCESS CLOSURE SHALL NOT OCCUR WITHOUT WRITTEN APPROVAL OF THE ENGINEER. COORDINATE CLOSURE PLANS WITH THE AFFECTED PROPERTY OCCUPANT AND/OR OWNER. THE CONTRACTOR SHALL NOTIFY THE AFFECTED PROPERTY A MINIMUM OF 48 HOURS PRIOR TO IMPLEMENTATION OF AN APPROVED ACCESS CLOSURE.
6. PROVIDE ACCESS THROUGH THE PROJECT FOR EMERGENCY VEHICLES.
7. MAC TRANSIT PURPLE LINE IS ROUTED THROUGH THE PROJECT LIMITS AIRPORT, ON CUSHMAN AND GAFFNEY. MAC TRANSIT GREEN LINE IS ROUTED THROUGH PROJECT LIMITS ON CUSHMAN ST. PROVIDE ACCESS FOR TRANSIT BUSES AND ITS USERS.
8. MAINTAIN ACCESS OF CROSS STREETS AS SHOWN.
9. PROVIDE PUBLIC NOTICE OF DETOURS AND CLOSURES IN ACCORDANCE WITH SECTION 643.
10. BEFORE BEGINNING WORK WITHIN THE PROJECT LIMITS, ERECT TRAFFIC CONTROL DEVICES REQUIRED BY THE APPROVED TCP.
11. PROVIDE TRAFFIC CONTROL DEVICES MEETING THE REQUIREMENTS OF SECTION 643.
12. EXISTING SIGNS WHICH CONFLICT WITH CONSTRUCTION SIGNS SHALL BE COVERED. COORDINATE REMOVAL WITH CITY OF FAIRBANKS PUBLIC WORKS.

13. CONSTRUCTION SIGNS MAY NOT BE PLACED ON PORTABLE SIGN SUPPORTS FOR MORE THAN THREE CONSECUTIVE CALENDAR DAYS. SIGNS REQUIRED LONGER THAN THIS PERIOD SHALL BE MOUNTED ON A PERMANENT SIGN POST WITH THE EXCEPTION OF PEDESTRIAN TRAFFIC CONTROL SIGNS AND SIGNS MOUNTED ON A TYPE III BARRICADE WHICH MAY BE INSTALLED ON PORTABLE SIGN SUPPORTS FOR THE DURATION OF THEIR INSTALLATION.
14. SPECIAL CONSTRUCTION SIGNS SHALL BE FABRICATED OF MATERIALS CONFORMING TO SECTION 615 OF THE SPECIFICATIONS AND SHALL HAVE A BLACK LEGEND ON ORANGE BACKGROUND.
15. ALL SIGNS SHALL BE SUPPLEMENTED WITH HIGH LEVEL WARNING DEVICES.
16. ALL BARRICADES SHALL HAVE ONE OPERABLE FLASHING LIGHT FOR EACH 10 FEET OF BARRICADE, WITH A MINIMUM OF TWO LIGHTS PER TYPE III BARRICADE EXCEPT IN A TAPER WHERE ONLY THE FIRST TWO LIGHTS SHALL FLASH (TYPE "A") AND THE REMAINDER SHALL BE STEADY BURN (TYPE "C").
17. TYPE "A" FLASHING WARNING LIGHTS SHALL BE USED TO MARK THE TYPE III BARRICADES, ROAD CLOSURES, AND ADVANCE DETOUR SIGNING AT NIGHT.
18. DEVICE SPACING ON TAPERS AND TANGENTS SHALL BE ONE (1) X THE POSTED SPEED LIMIT (IN FEET). SPEED LIMIT:
19. TWO (2) PORTABLE CHANGEABLE MESSAGE BOARD SIGNS WILL BE SUBSIDIARY TO 2020 SSHC TRAFFIC MAINTENANCE. ANY ADDITIONAL PORTABLE CHANGEABLE MESSAGE BOARD SIGNS WILL BE PAID FOR UNDER 2020 SSHC AT THE TRAFFIC CONTROL RATE SCHEDULE.
20. TEMPORARY STRIPING SHALL BE EITHER TEMPORARY RAISED PAVEMENT MARKERS OR PREFORMED PAVEMENT MARKING TAPE.
21. TRAFFIC CONTROL ZONES PROVIDING TWO-WAY TRAFFIC ON A ROAD REDUCED TO A SINGLE LANE REQUIRE A FLAGGER LOCATED AT EACH END.

TRAFFIC CONTROL PLAN LEGEND	
	FULL CLOSURE
	HALF-WIDTH CLOSURE

**TRAFFIC CONTROL PLAN
OVERALL PLAN**

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
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 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOTPE\385_airport & cushman reconstruction\DWGS\c\Sheets\64078_T2-TX_TRAFFIC CONTROL-T2 Thu, Dec/22/22 11:02am
 (Bill Paddock) KE# 00385

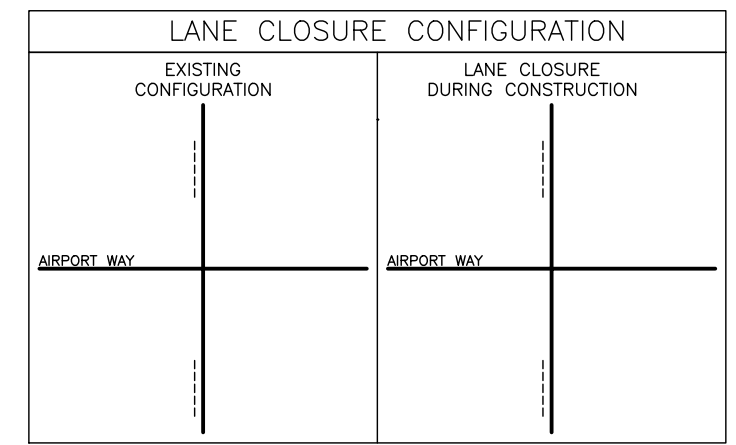


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	T2	T3

TRAFFIC CONTROL PLAN NOTES

- 1
- 2. ACCESS TO:
- 2
- 3. ACCESS TO:
- 3
- 4. ACCESS TO:
- 4
- 5. ACCESS TO:
- 5
- 6. ACCESS TO:
- 6
- 7

TRAFFIC CONTROL PLAN LEGEND	
	FULL CLOSURE
	HALF-WIDTH CLOSURE
	TYPE III BARRICADE
	DETOUR ROUTE
	PORTABLE CHANGEABLE MESSAGE BOARD SIGN
	LANE CLOSURE



TRAFFIC CONTROL PLAN
SB DETOUR AT AIRPORT WAY

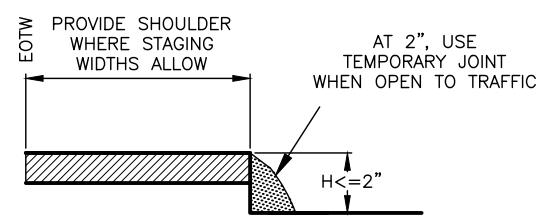
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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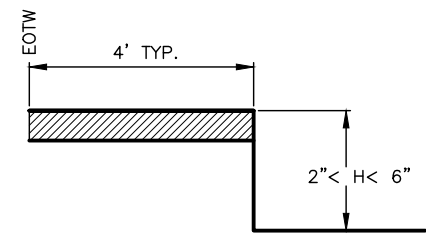
VERTICAL DROP-OFFS



CASE A

DROP-OFFS ≤ 2 INCHES
(PAVED SURFACES ONLY)

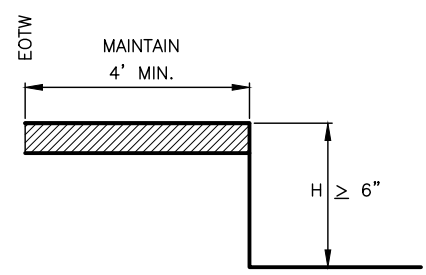
1. USE "UNEVEN LANES" (CW8-11) SIGNS FOR ALL DROP-OFFS IN BETWEEN TRAFFIC LANES.
2. LEAVE NO DROP-OFFS > 1.5" IN THE TRAFFIC LANE OR ACTIVE WHEEL TRACK.



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.

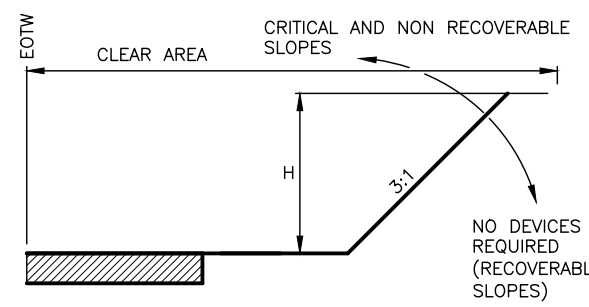


CASE C

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.

CUT SLOPES



EOTW = EDGE OF TRAVELED WAY

CLEAR AREA REQUIREMENTS

	LOW SPEED < = 35 MPH
URBAN	10' DITCH SECTIONS, OR 2' BEHIND CURB

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

	H ≤ 15'
> 2000 VPD	TYPE II BARRICADE OR DRUMS

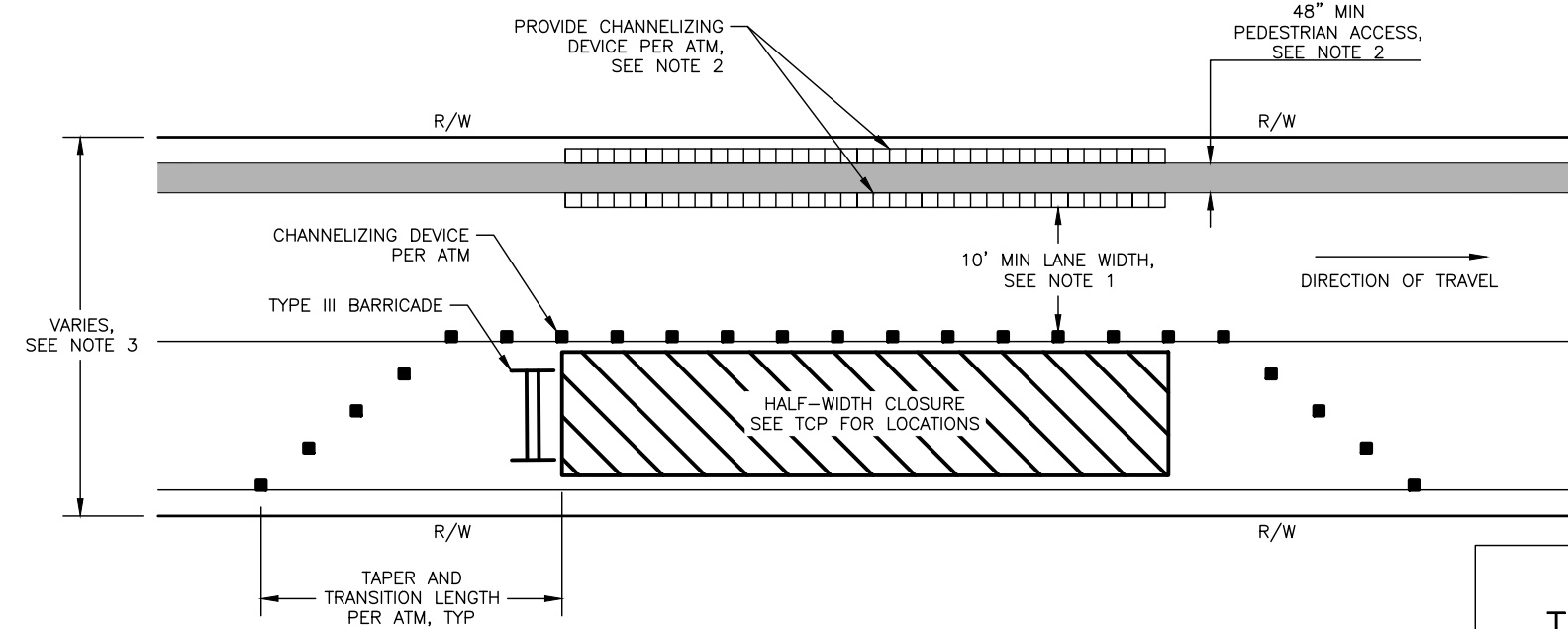
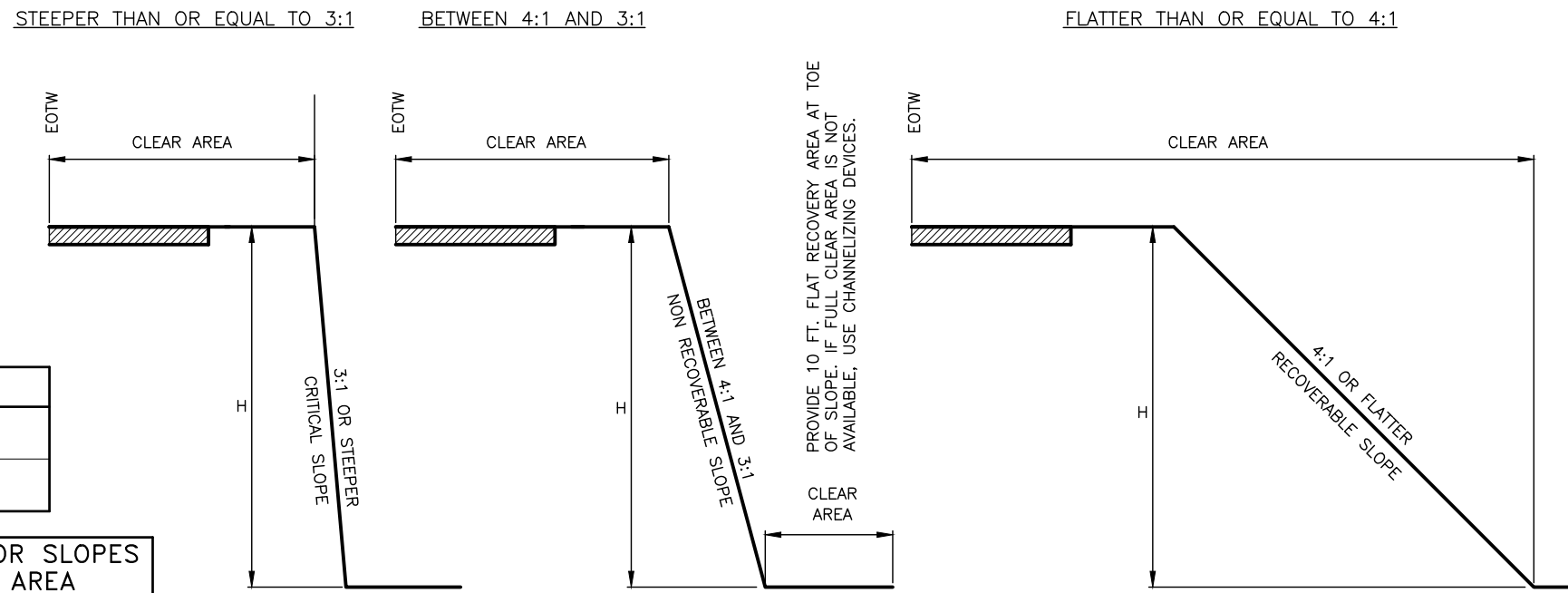
EQUIPMENT NOTES:

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

FILL SLOPES



HALF-WIDTH CLOSURE DETAIL

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 ALL 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.

HALF-WIDTH CLOSURE NOTES:

1. PROVIDE MINIMUM 10' LANE WIDTH AS MEASURED FROM NEAR FACE OF CHANNELIZING DEVICE TO NEAR FACE OF CHANNELIZING DEVICE OR CURB FACE.
2. WHEN POSSIBLE, ROUTE PEDESTRIANS ON EXISTING OR NEWLY CONSTRUCTED SIDEWALK. OTHERWISE, DELINEATE TEMPORARY PEDESTRIAN ACCESS USING CHANNELIZING DEVICES PER MUTCD. TEMPORARY PEDESTRIAN ACCESS SHALL BE A MINIMUM 48" WIDTH AS MEASURED FROM NEAR FACE OF CHANNELIZING DEVICE TO NEAR FACE OF CHANNELIZING DEVICE WITH AN ADA-COMPLIANT SMOOTH SURFACE. PROVIDE ADA-COMPLIANT WHEELCHAIR RAMPS AT LOCATIONS WHERE PEDESTRIANS ARE ROUTED FROM THE SIDEWALK INTO THE STREET. PHASE WORK IN A MANNER THAT GUIDES PEDESTRIANS THROUGH THE WORK ZONE IN THE MOST CONTINUOUS AND DIRECT ROUTE PRACTICABLE AND THAT MINIMIZES CROSSINGS TO THE OPPOSITE SIDE OF THE ROADWAY.
3. RIGHT-OF-WAY WIDTH VARIES BETWEEN 50' - 60'. SEE F SHEETS FOR RIGHT-OF-WAY LIMITS. LOCATE TEMPORARY TRAFFIC CONTROL WITHIN LIMITS OF RIGHT-OF-WAY.

TRAFFIC CONTROL PLAN

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KINNEY ENGINEERING, LLC

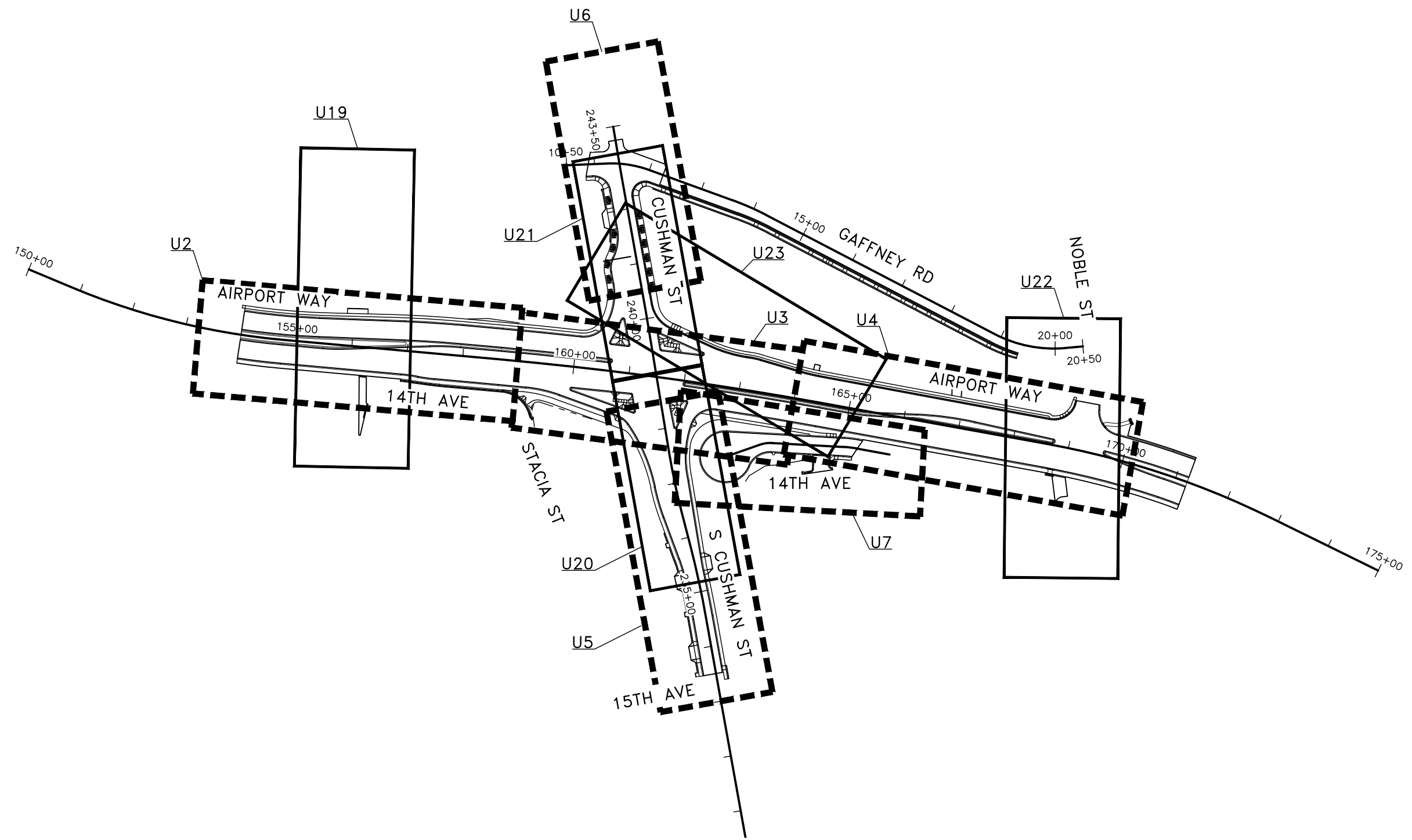
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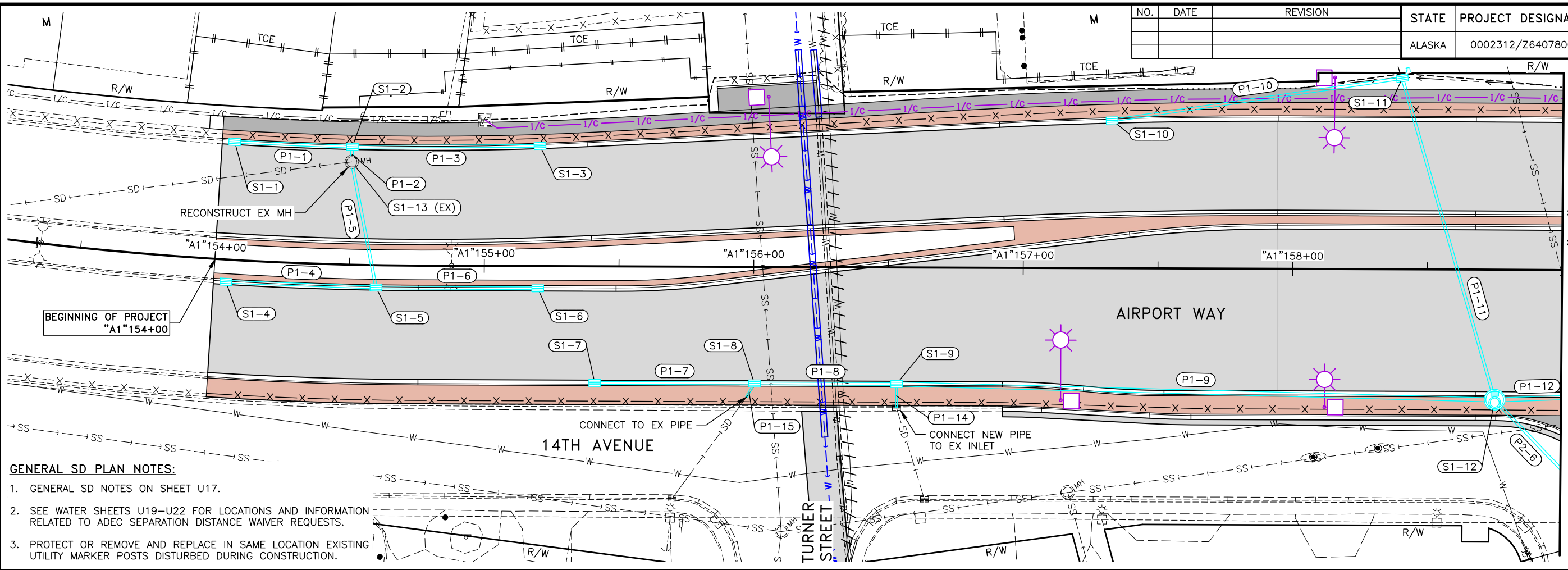


UTILITY SHEET
LAYOUT

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 (Bill Poddeck) KE# 00385

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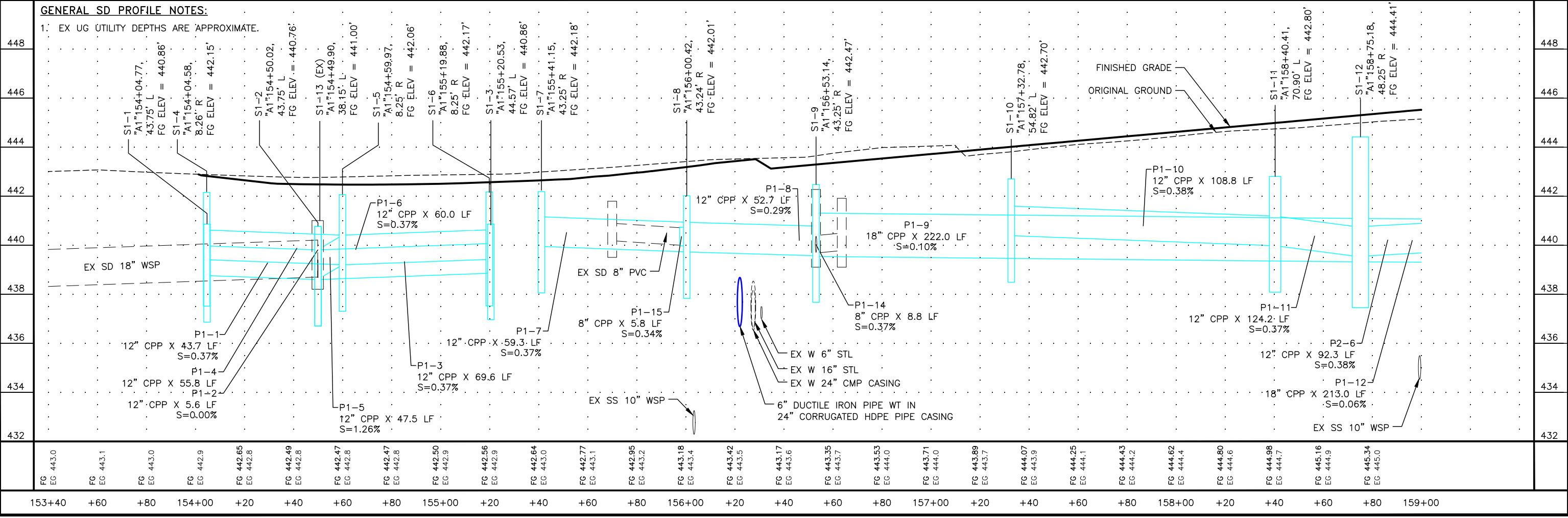


- GENERAL SD PLAN NOTES:**
- GENERAL SD NOTES ON SHEET U17.
 - SEE WATER SHEETS U19-U22 FOR LOCATIONS AND INFORMATION RELATED TO ADEC SEPARATION DISTANCE WAIVER REQUESTS.
 - PROTECT OR REMOVE AND REPLACE IN SAME LOCATION EXISTING UTILITY MARKER POSTS DISTURBED DURING CONSTRUCTION.

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12/22/2022



MATCH LINE STA "A1"159+00
 SEE SHEET U3

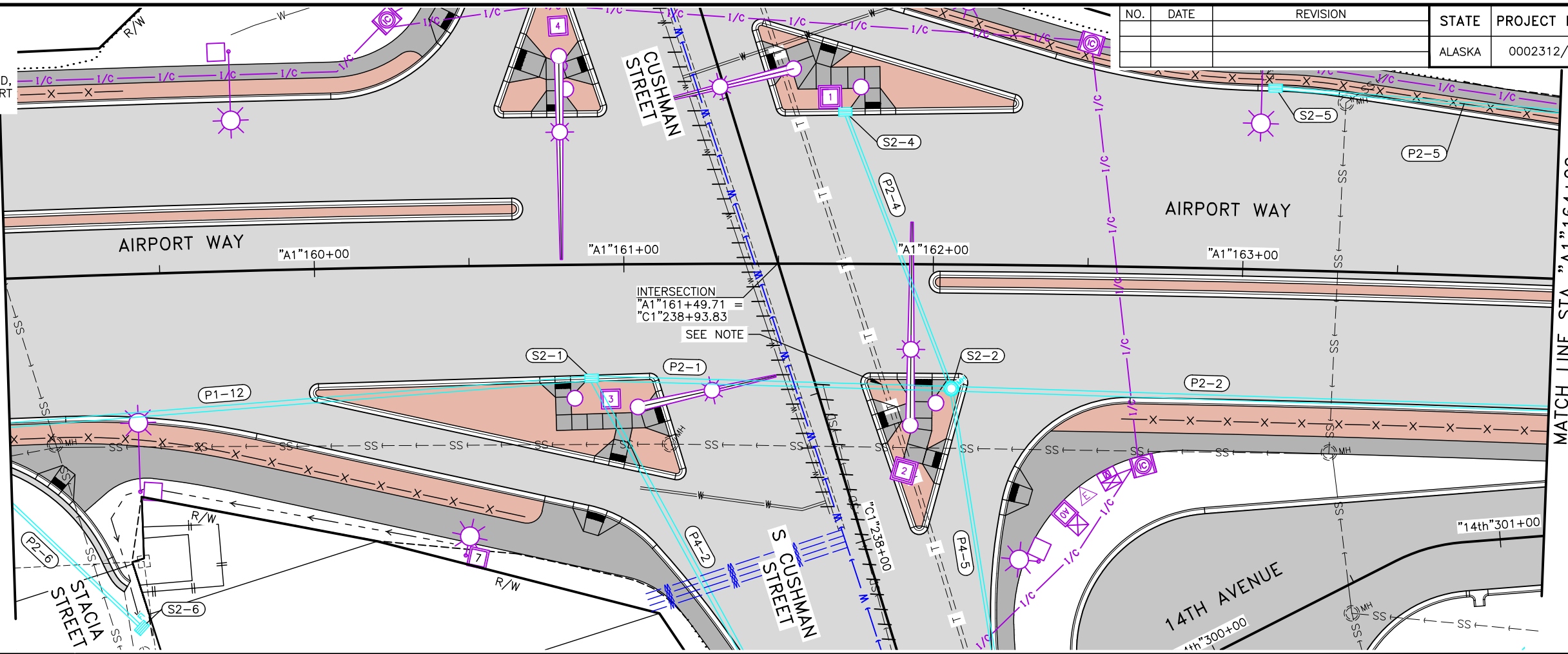
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 (Bill Paddock) KE#: 00385

NOTE:
 WHERE EXCAVATION BELOW EXISTING TELEDUCT IS REQ'D, CONTRACTOR SHALL SUPPORT AND PROTECT IT IN PLACE.

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			ALASKA	0002312/Z640780000	2024	U3	U25

MATCH LINE STA "A1"159+00
SEE SHEET U2

MATCH LINE STA "A1"164+00
SEE SHEET U4

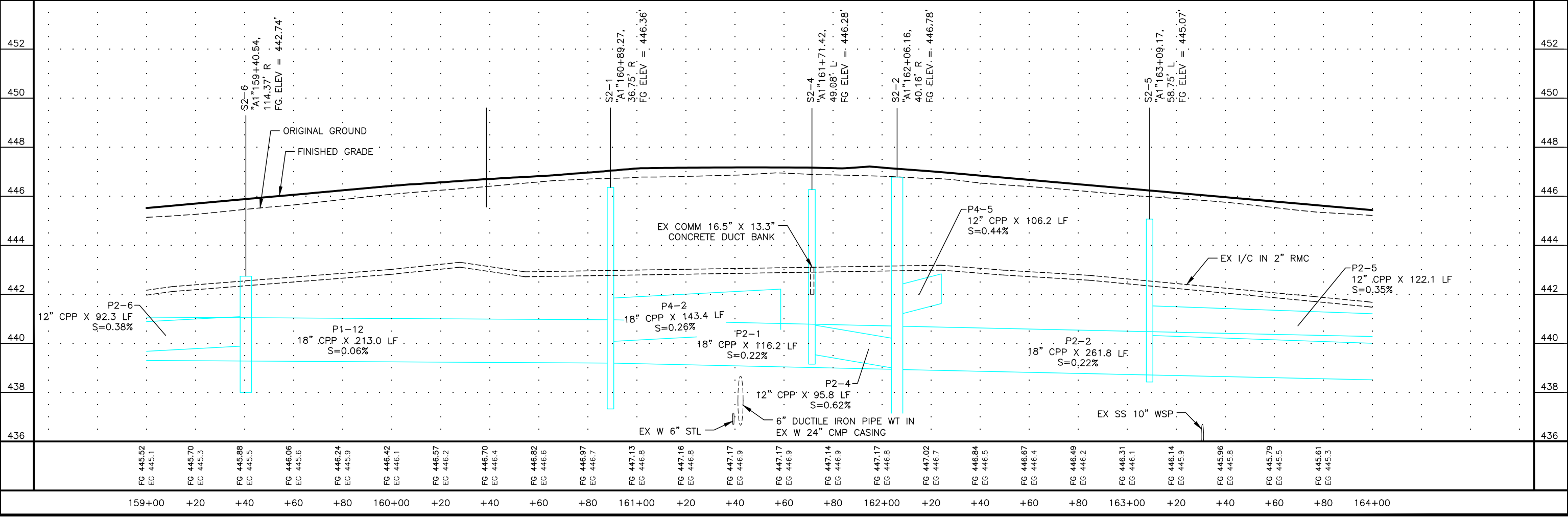


INTERSECTION
 "A1"161+49.71 =
 "C1"238+93.83
 SEE NOTE

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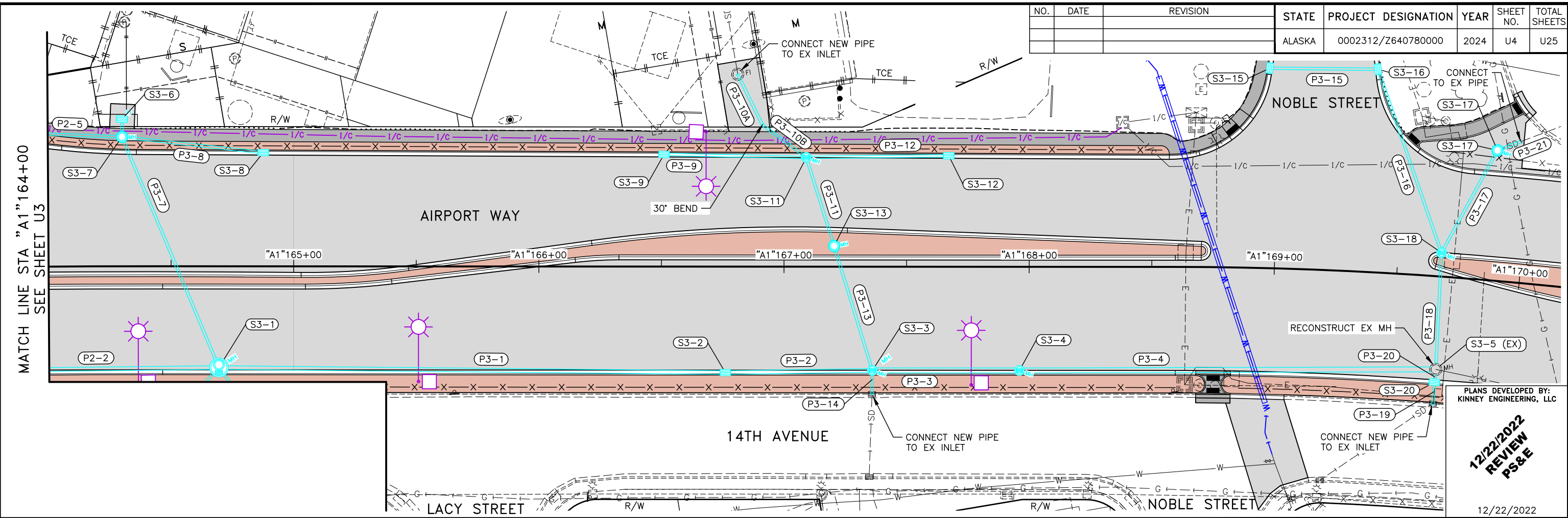
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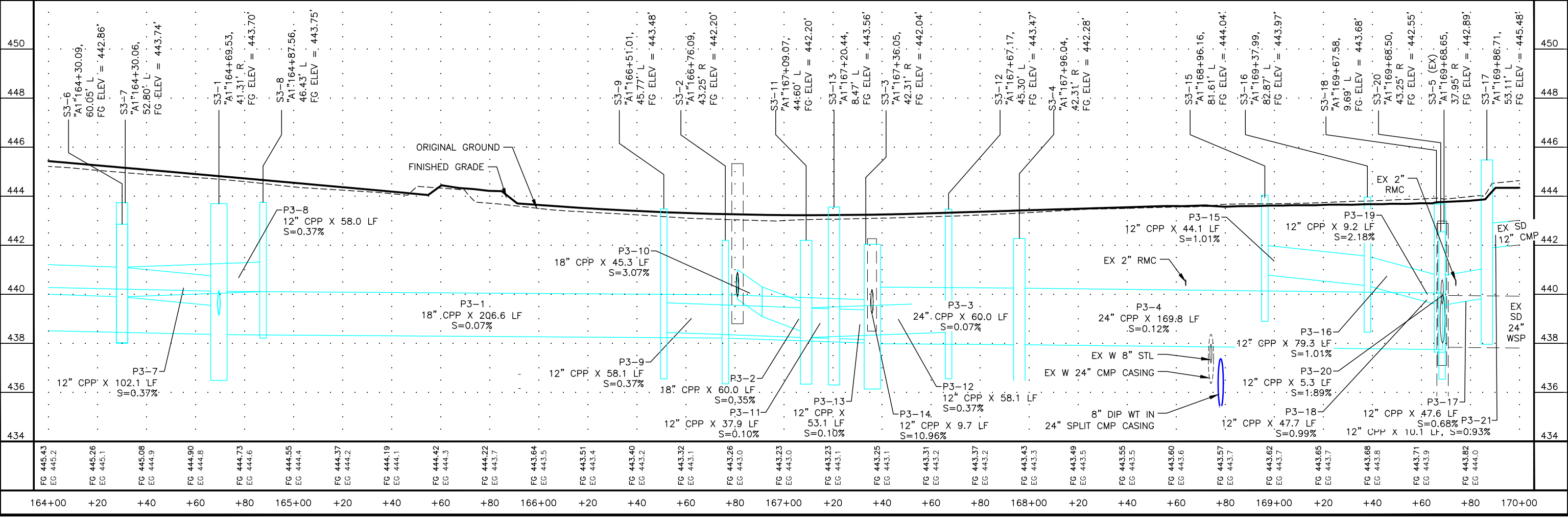


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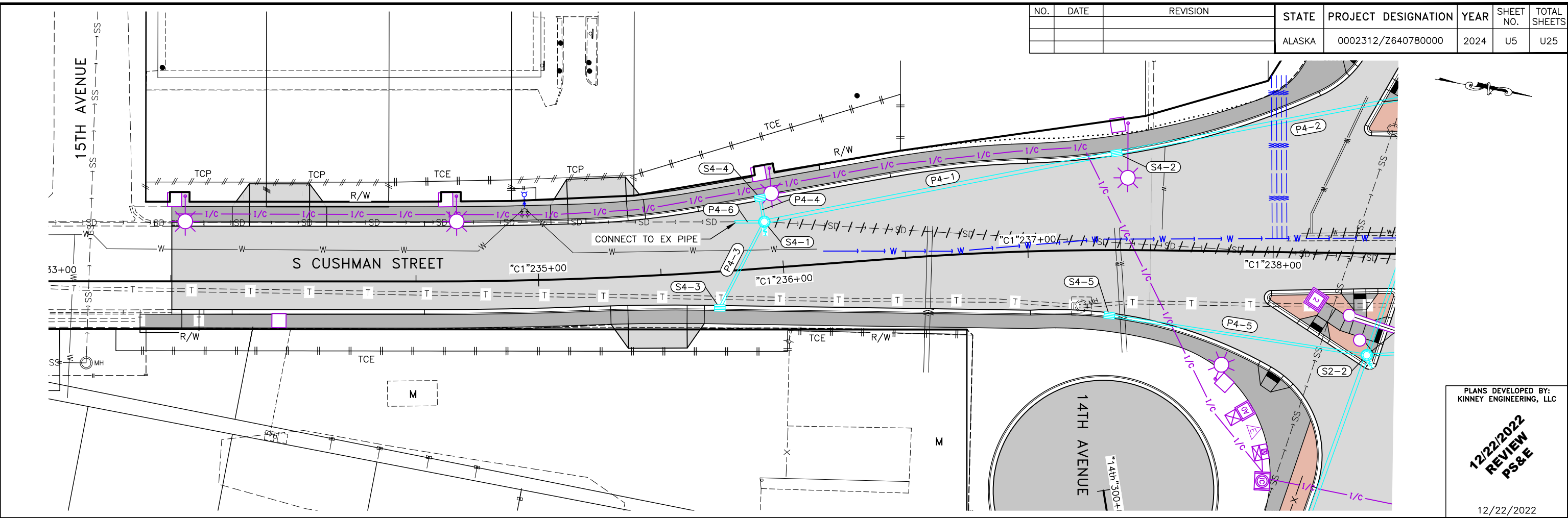


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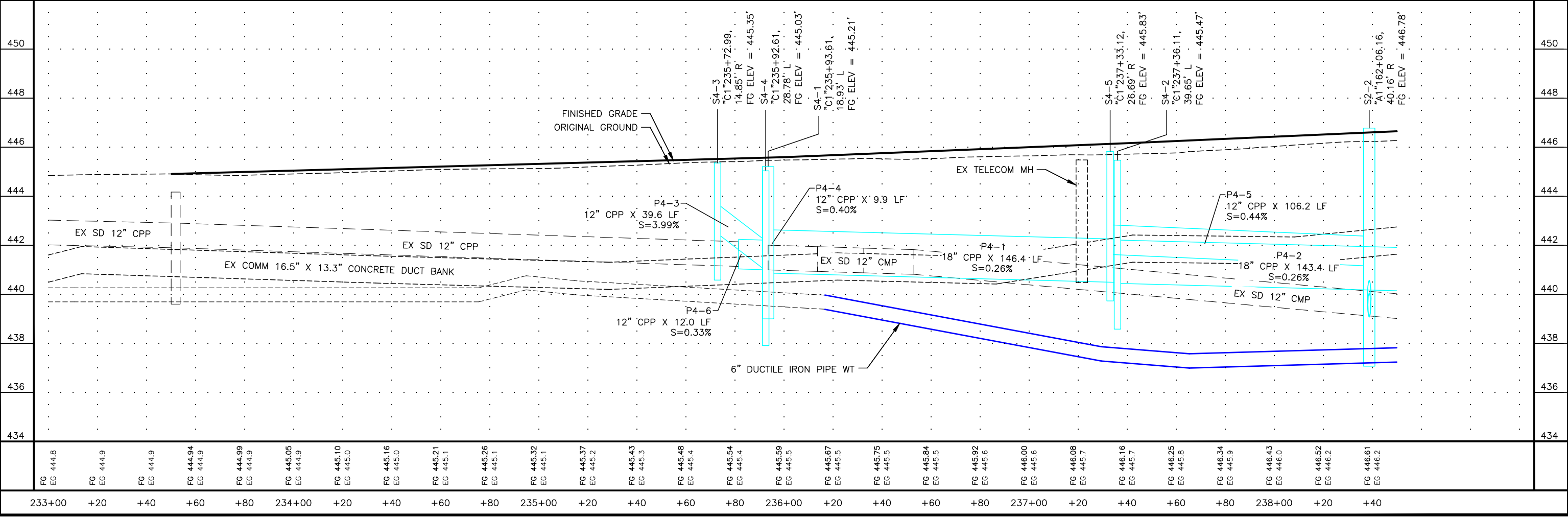


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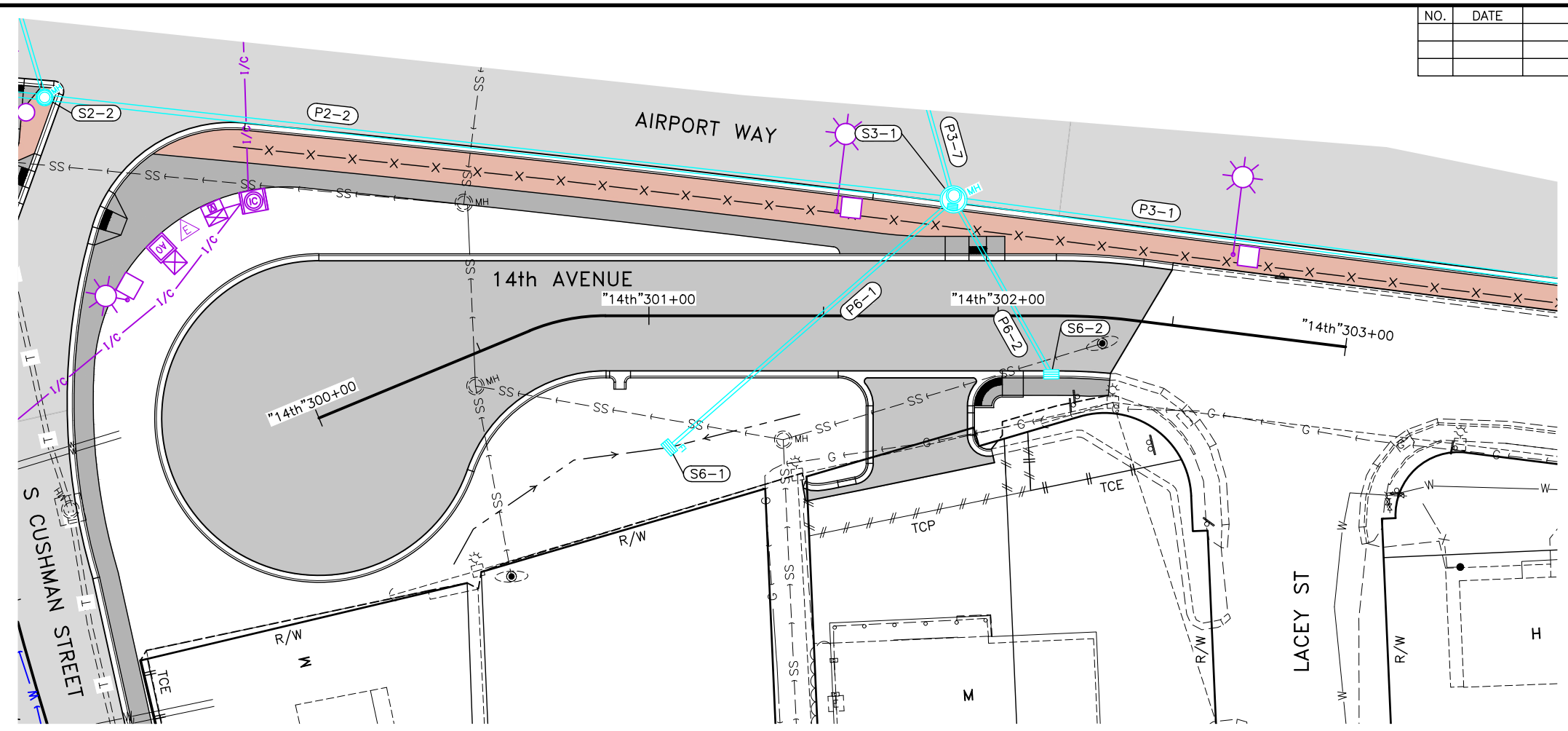


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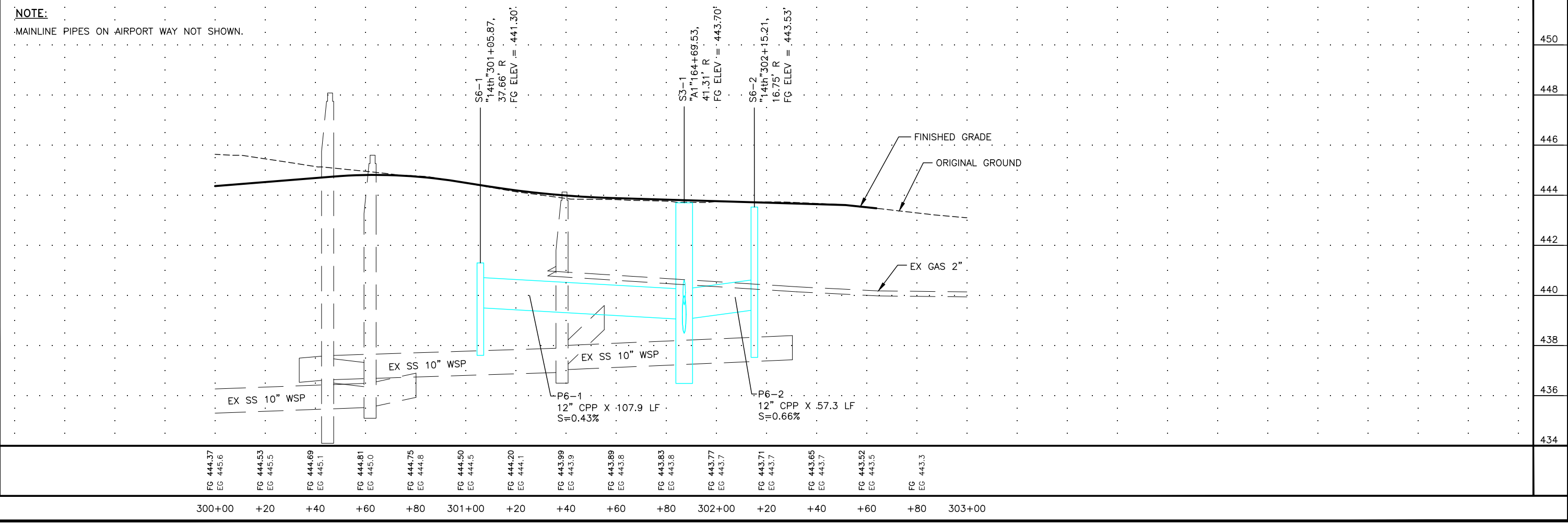
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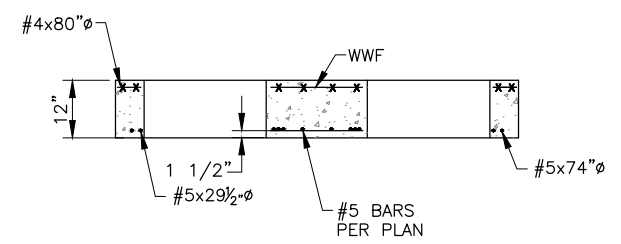
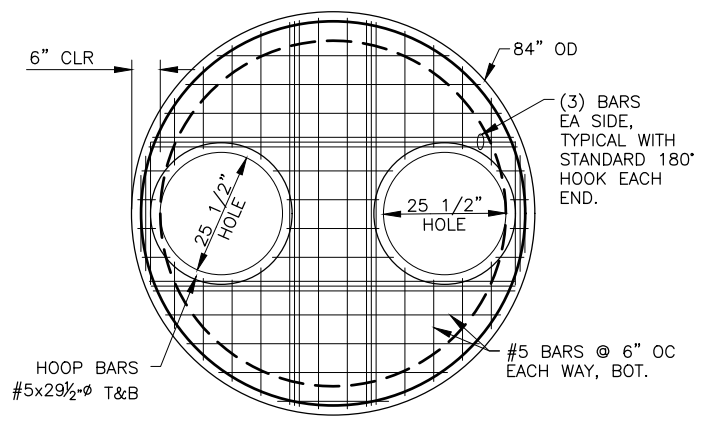
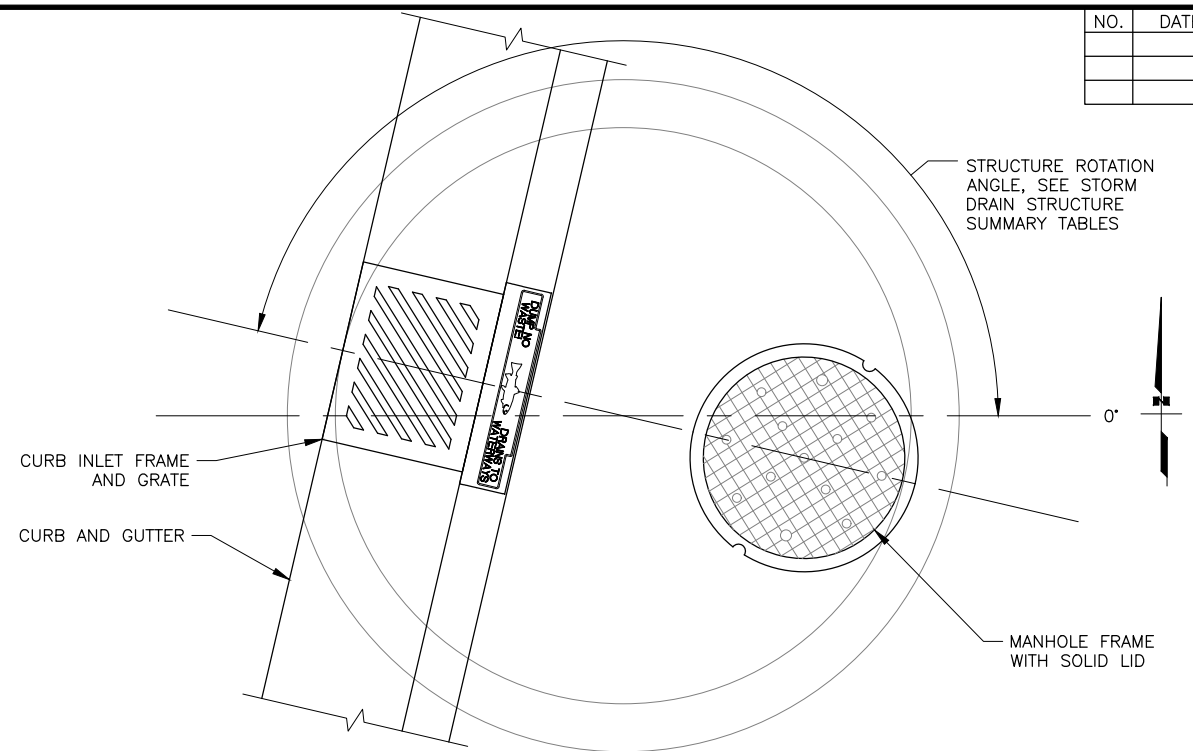
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TYPE II STORM DRAIN MANHOLE NOTES:

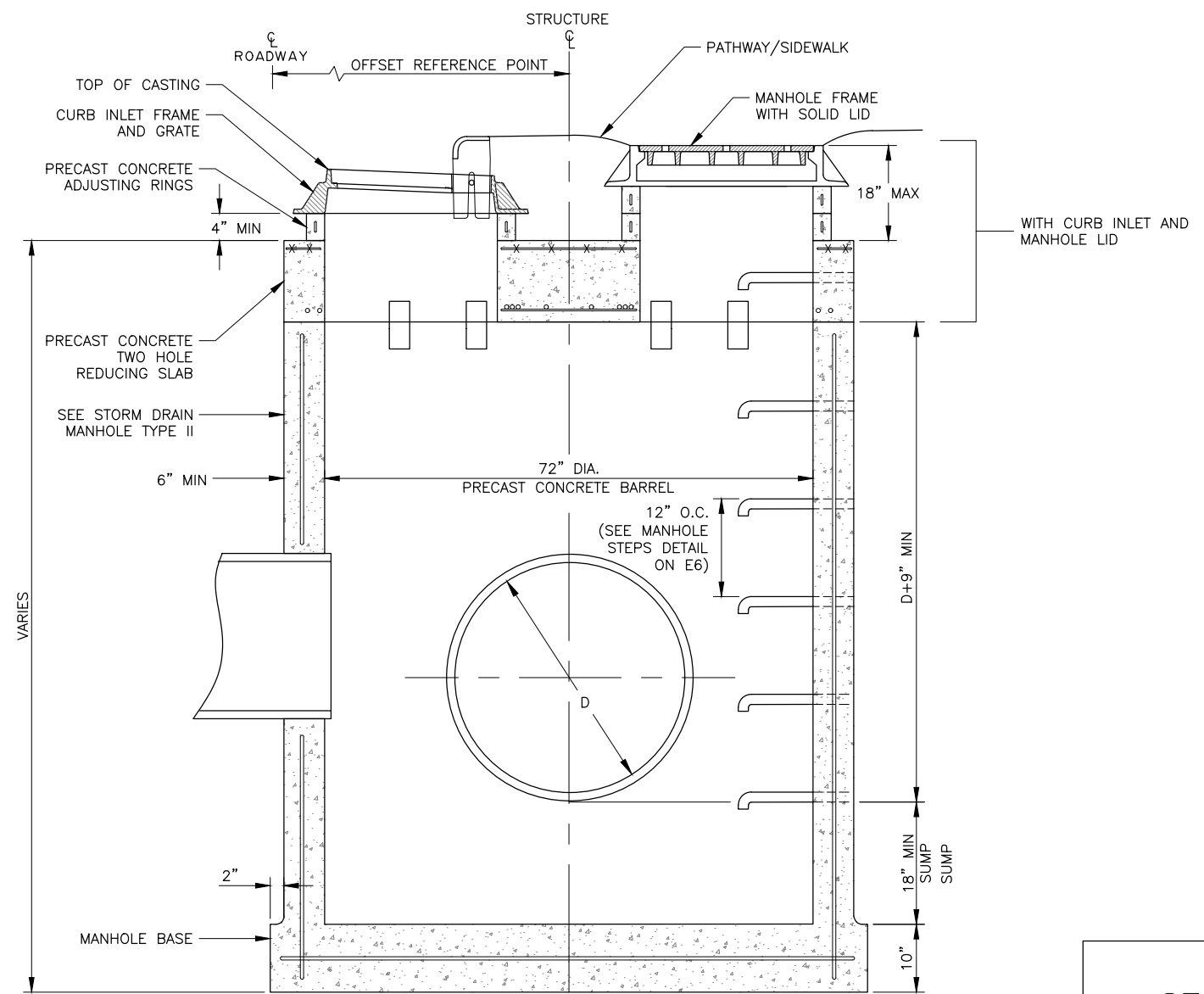
1. CONSTRUCT PER STORM DRAIN MANHOLE TYPE II DETAIL.

PRECAST CONCRETE REDUCING SLAB NOTES:

1. TABS WILL BE 1/2"x3"x7" GALVANIZED STEEL PLATES. EVENLY SPACE 8 TABS AROUND EACH SLAB. INSERT TABS 4" INTO CONCRETE, 6 1/2" FROM OUTSIDE EDGE OF SLAB.
2. MAINTAIN A MINIMUM OF 1 1/2" OF CONCRETE COVER OVER ALL REBAR.



PRECAST CONCRETE TWO HOLE REDUCING SLAB (72" TO TWO 25 1/2")



STORM DRAIN MANHOLE, TYPE II

STORM DRAIN DETAILS

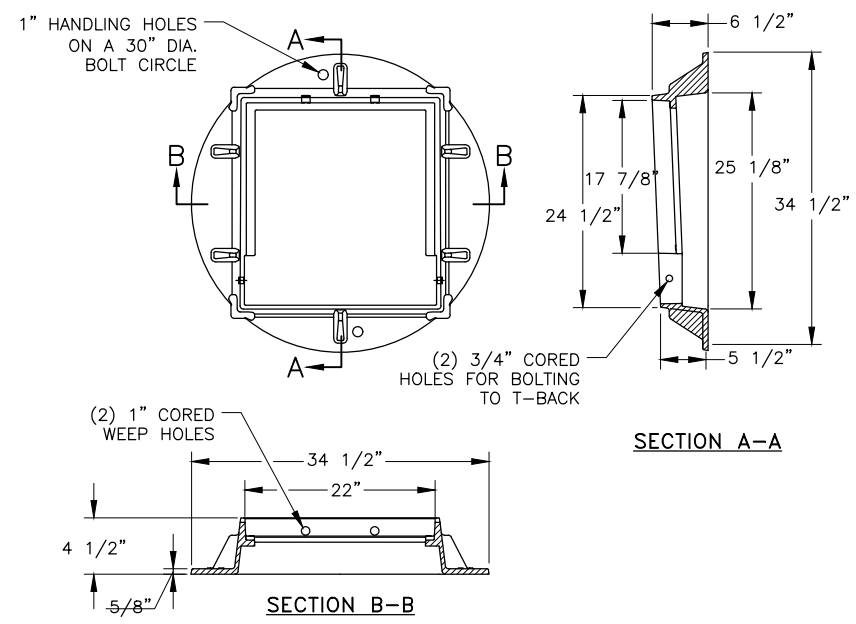
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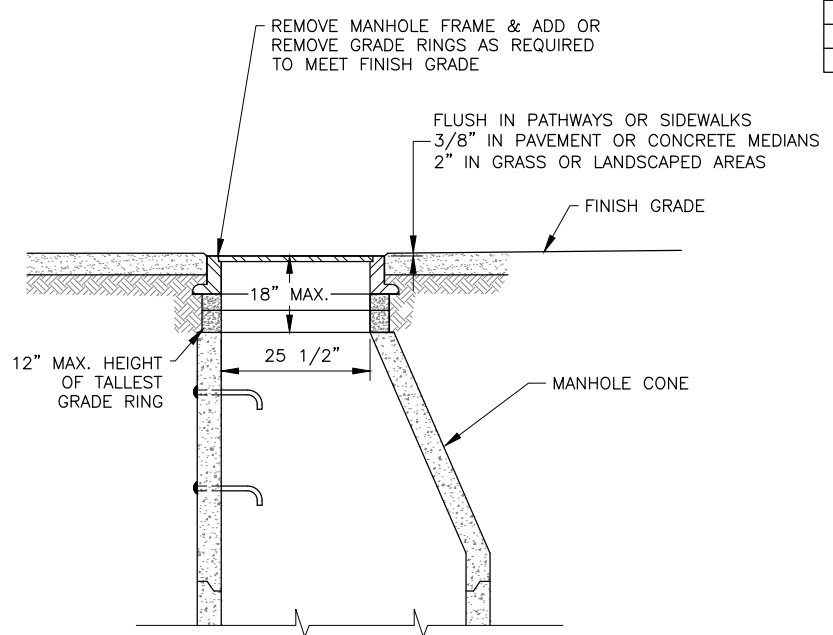
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CURB INLET FRAME



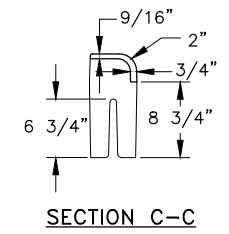
NOTES:

1. WHEN AN ADJUSTMENT OF GREATER THAN 12" IN GRADE RINGS IS REQUIRED, ADJUST CONE RATHER THAN ADJUST GRADE RINGS.
2. SEAL FRAME AND GRADE RING TO CONE WITH WRAPID SEAL® OR APPROVED EQUAL.
3. FEATHER SURROUNDING SURFACES TO MATCH LID ELEVATIONS.
4. IF NECESSARY, SHIM MANHOLE FRAME WITH STUD WASHERS TO ADJUST FRAME. WHEN SHIMS ARE USED, SET MANHOLE FRAME IN A FULL BED OF MORTAR WITH SHIMS.

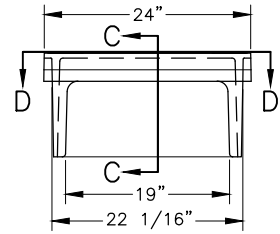
MANHOLE RING ADJUSTMENT



**SECTION D-D
DETAIL SUBTITLE**



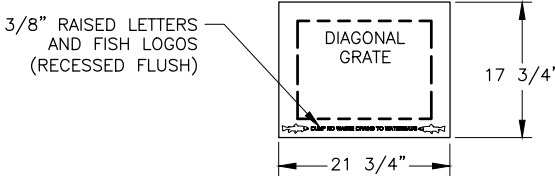
CURB INLET HOOD



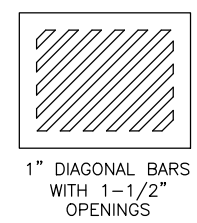
CURB INLET FRAME AND HOOD FOR MOUNTABLE CURB AND GUTTER

NOTES:

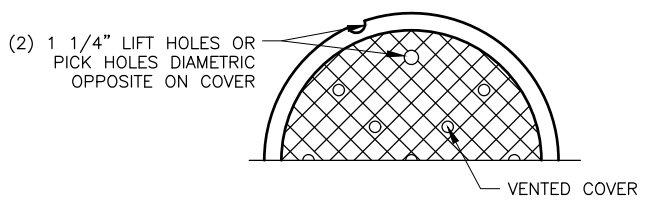
1. MINIMUM CASTING WEIGHT SHALL BE 400 LBS. FOR CURB INLET FRAME, HOOD & GRATE.
2. CURB INLET HOOD & GRATE SHALL CONFORM TO ASTM A536.
3. GRATE SHALL BE AS SHOWN ON THE DRAWINGS OR SPECIFIED BY THE ENGINEER.



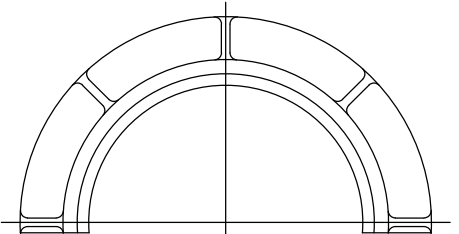
CURB INLET GRATE



DIAGONAL GRATE



MANHOLE COVER



MANHOLE FRAME

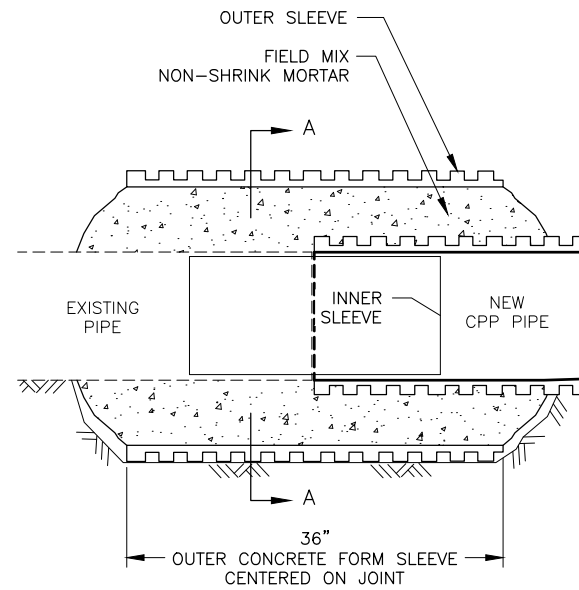
MANHOLE FRAME AND COVER WEIGHT	
* DEPTH	6" 380 LBS
	7" 400 LBS
	8" 440 LBS
	9" 470 LBS
	10" 500 LBS

STORM DRAIN DETAILS

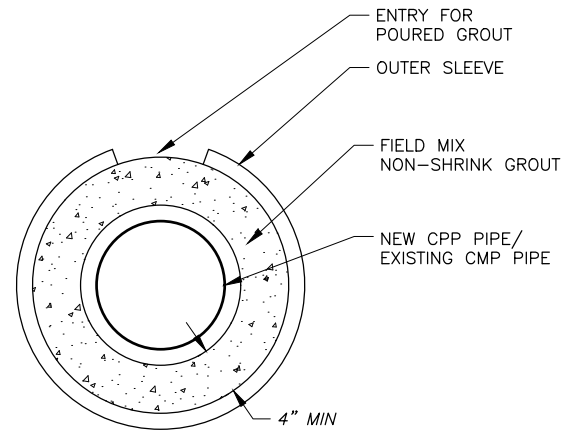
PLANS DEVELOPED BY:
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12/22/2022
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PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE#: 00385

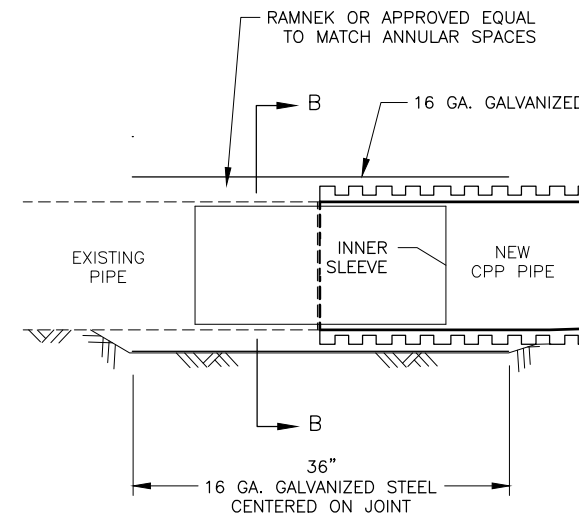
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	U10	U26



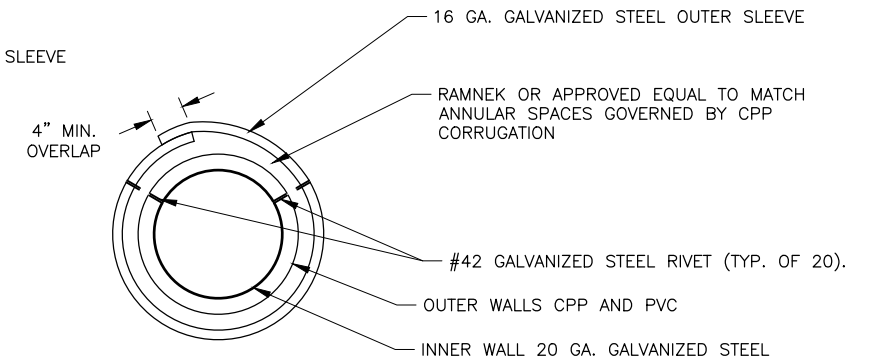
SIDE VIEW CPP TO CMP



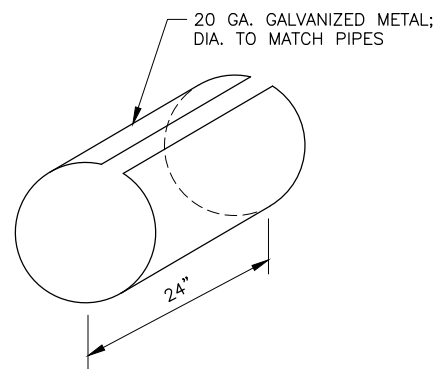
VIEW A-A



SIDE VIEW CPP TO PVC

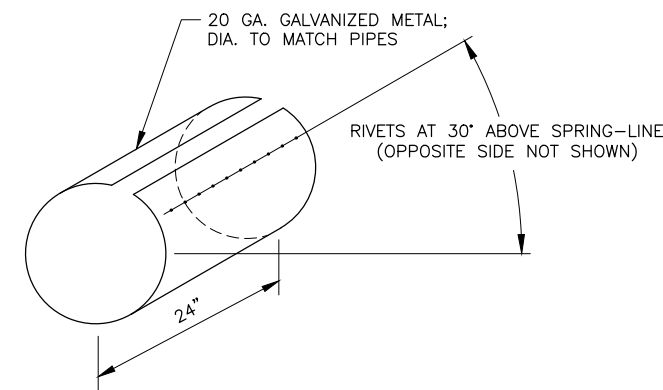


VIEW B-B



INNER SLEEVE

CPP TO CMP STORM PIPE CONNECTION
NTS



CPP TO PVC (SMOOTH OUTER WALL) STORM PIPE CONNECTION
NTS

CPP PIPE CONNECTION NOTES:

- REFER TO PIPE SUMMARY REMARKS SHEET U18 FOR DISSIMILAR PIPES.
- MATCH INVERTS OF EXISTING PIPE AND NEW CPP PIPE. INNER SLEEVE SHALL FORM A SMOOTH TRANSITION, WITHOUT AN ABRUPT EDGE WITH NEW CPP PIPE AND EXISTING CMP PIPE.
- USE POTABLE WATER IN MINIMUM AMOUNTS TO PROVIDE PLASTICITY IN PLACING GROUT.
- GAP BETWEEN PIPE ENDS SHALL NOT EXCEED 1/8"
- DRILL PVC, 16 GA. AND 20 GA. GALVANIZED STEEL WHERE SMOOTH OUTERWALL PVC ABUTS CPP AND RIVET WITH #42 GALVANIZED STEEL RIVETS. HOLES SHALL BE 2" CLEAR FROM PVC AND INNER SLEEVE ENDS. ALIGN HOLES AT 30° MIRRORED ABOVE SPRING-LINE AT 2" O.C. LONGITUDINALLY.

STORM DRAIN DETAILS

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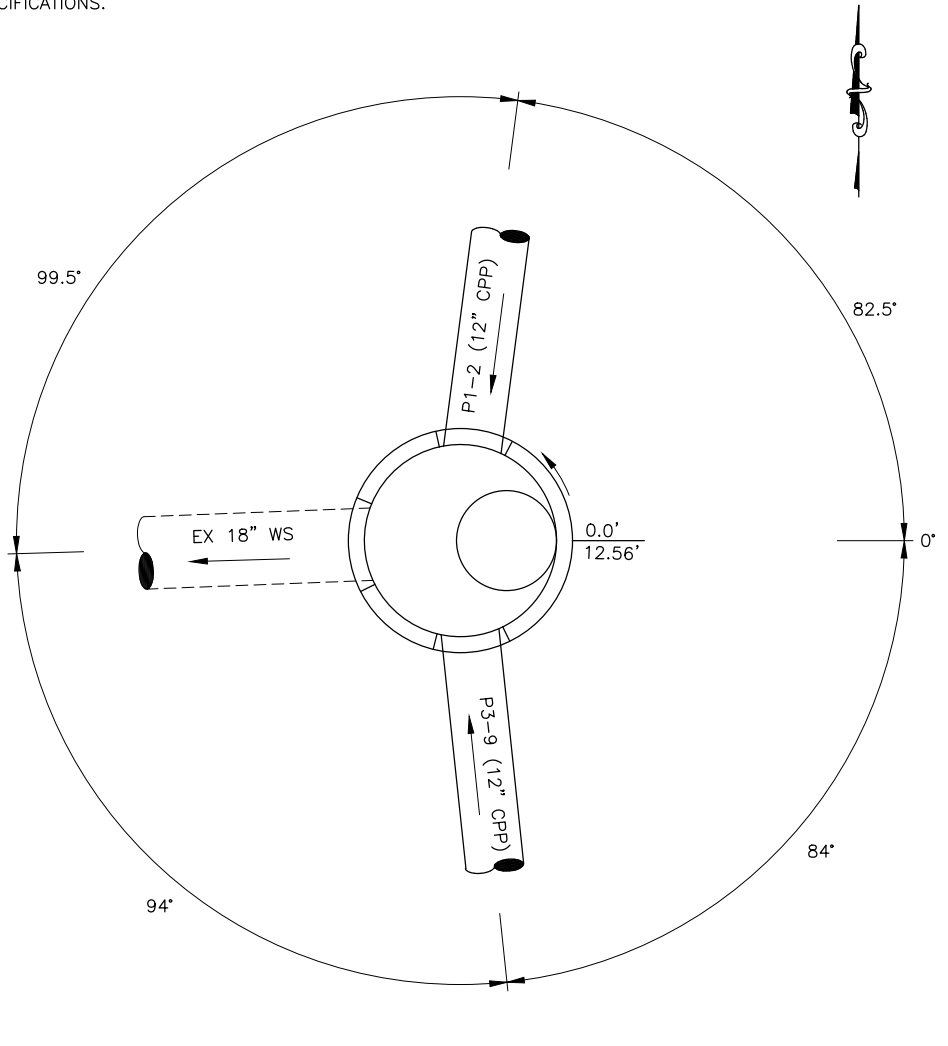
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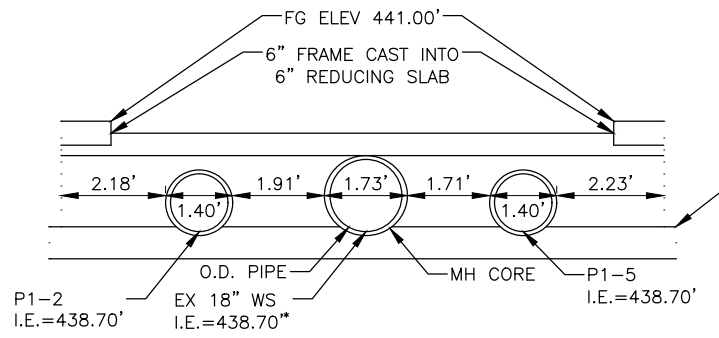
GENERAL MH NOTE:

FG ELEV REFERS TO THE GRADE POINT IN STORM DRAIN CATCH BASIN DETAIL (NORMAL FLOW LINE IN AK STD PLAN) AND PAVEMENT SURFACE IN MANHOLE DETAILS. DEPRESS THE FRAMES, GRATES, AND LIDS PER THE PLANS AND SPECIFICATIONS.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	U11	U26

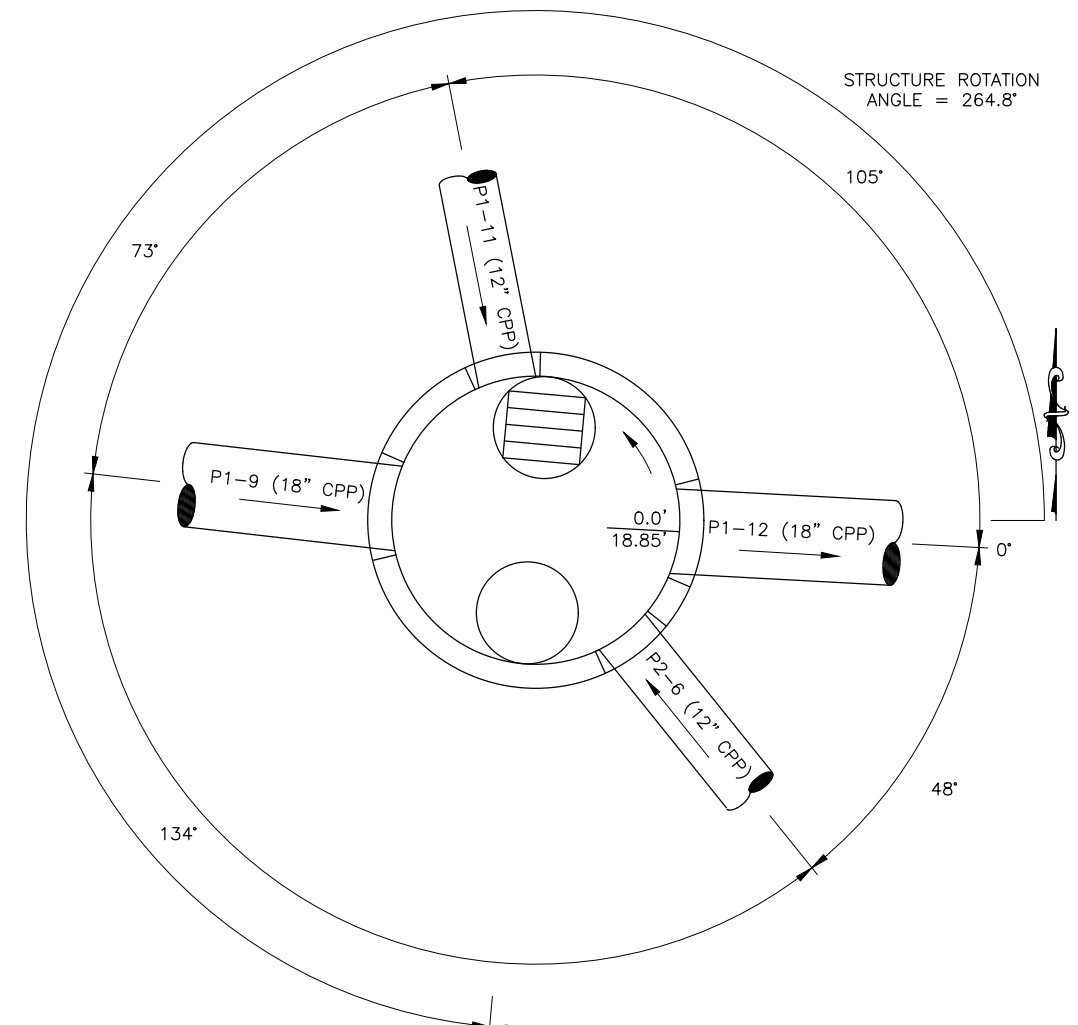


PLAN

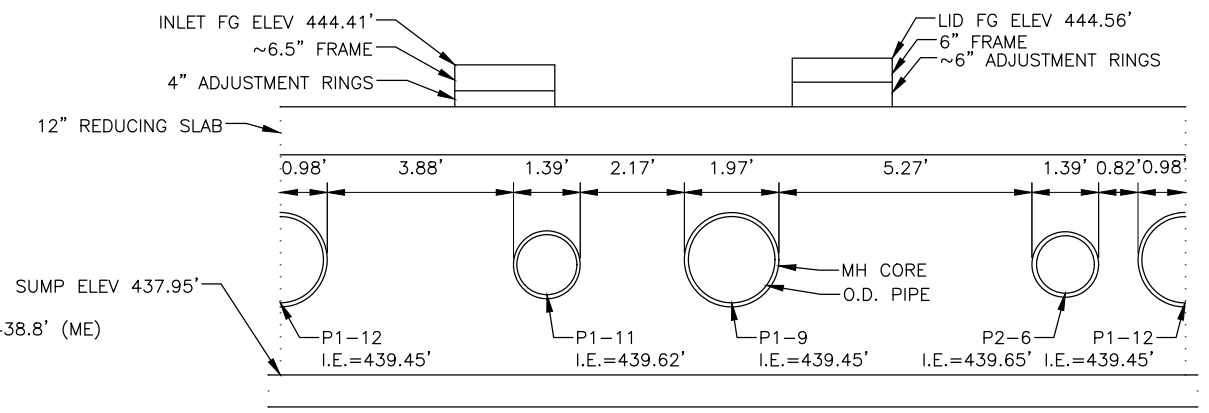


PROFILE

S1-13 (EX) MANHOLE PLAN AND PROFILE
NTS



PLAN

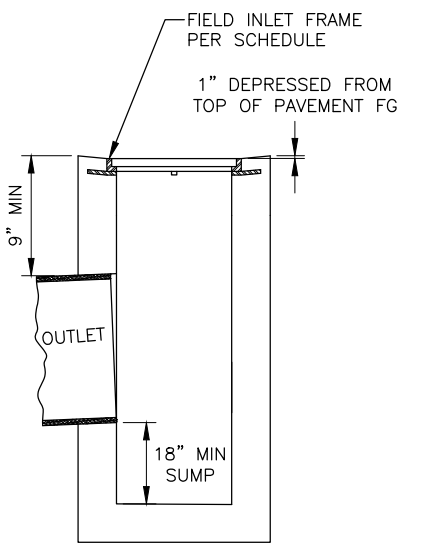
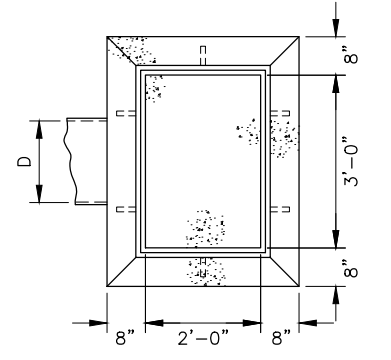


PROFILE

S1-12 MANHOLE PLAN AND PROFILE
NTS

INLET BOX W/ INTEGRAL FRAME NOTES:

1. INSTALL WHERE INDICATED IN STRUCTURE SUMMARY



PRECAST FIELD INLET BOX
W/ INTEGRAL FRAME
NTS

* BEFORE BEGINNING CONSTRUCTION OF NEW STORM DRAIN SYSTEM, VERIFY INVERTS OF EXISTING PIPES BEING RECONNECTED TO NEW STORM DRAIN. ALERT ENGINEER TO ANY DISCREPANCIES.

STORM DRAIN DETAILS

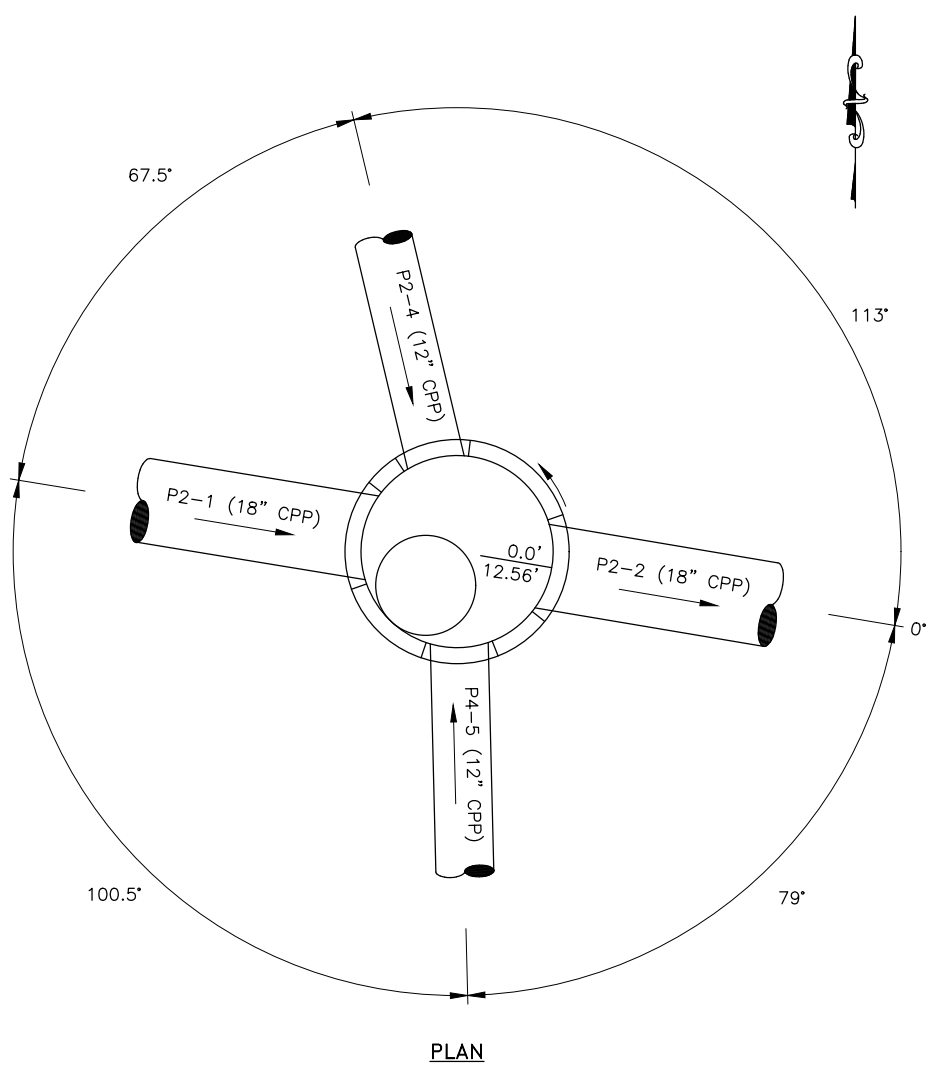
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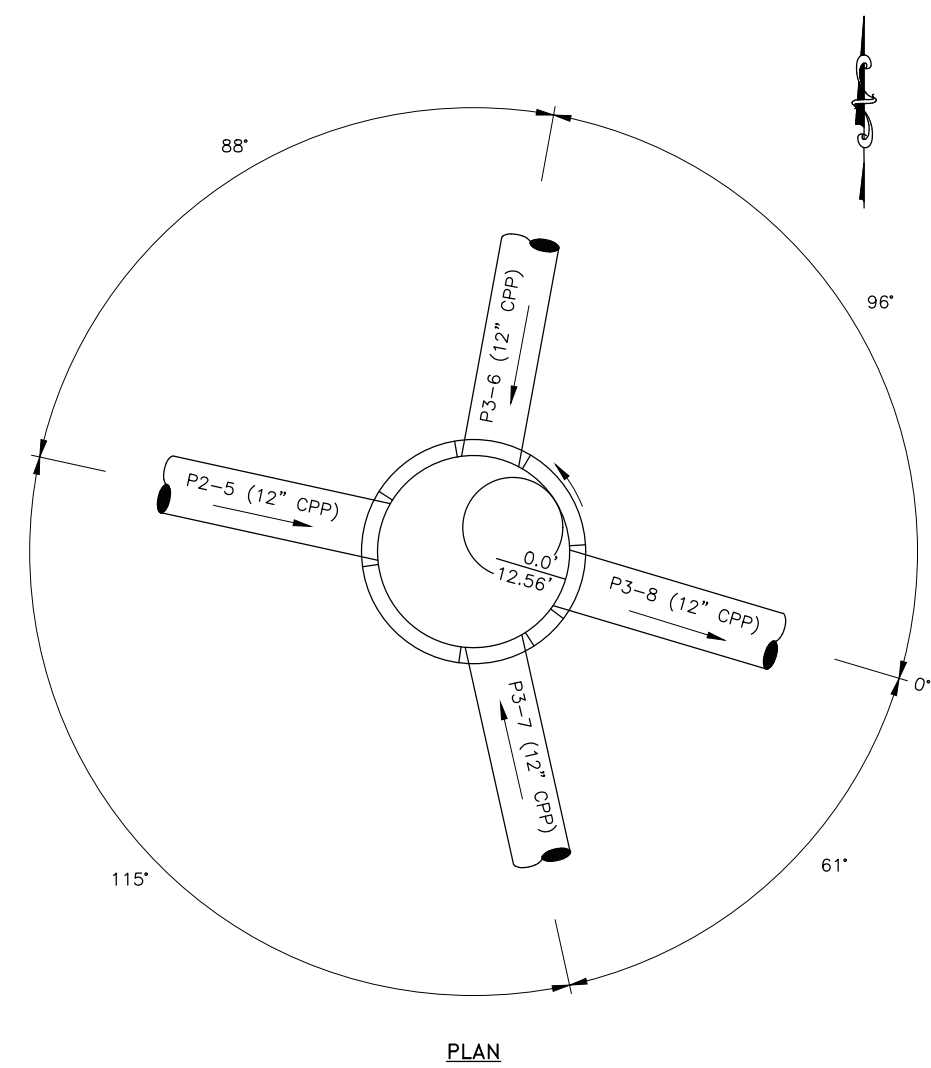
12/22/2022

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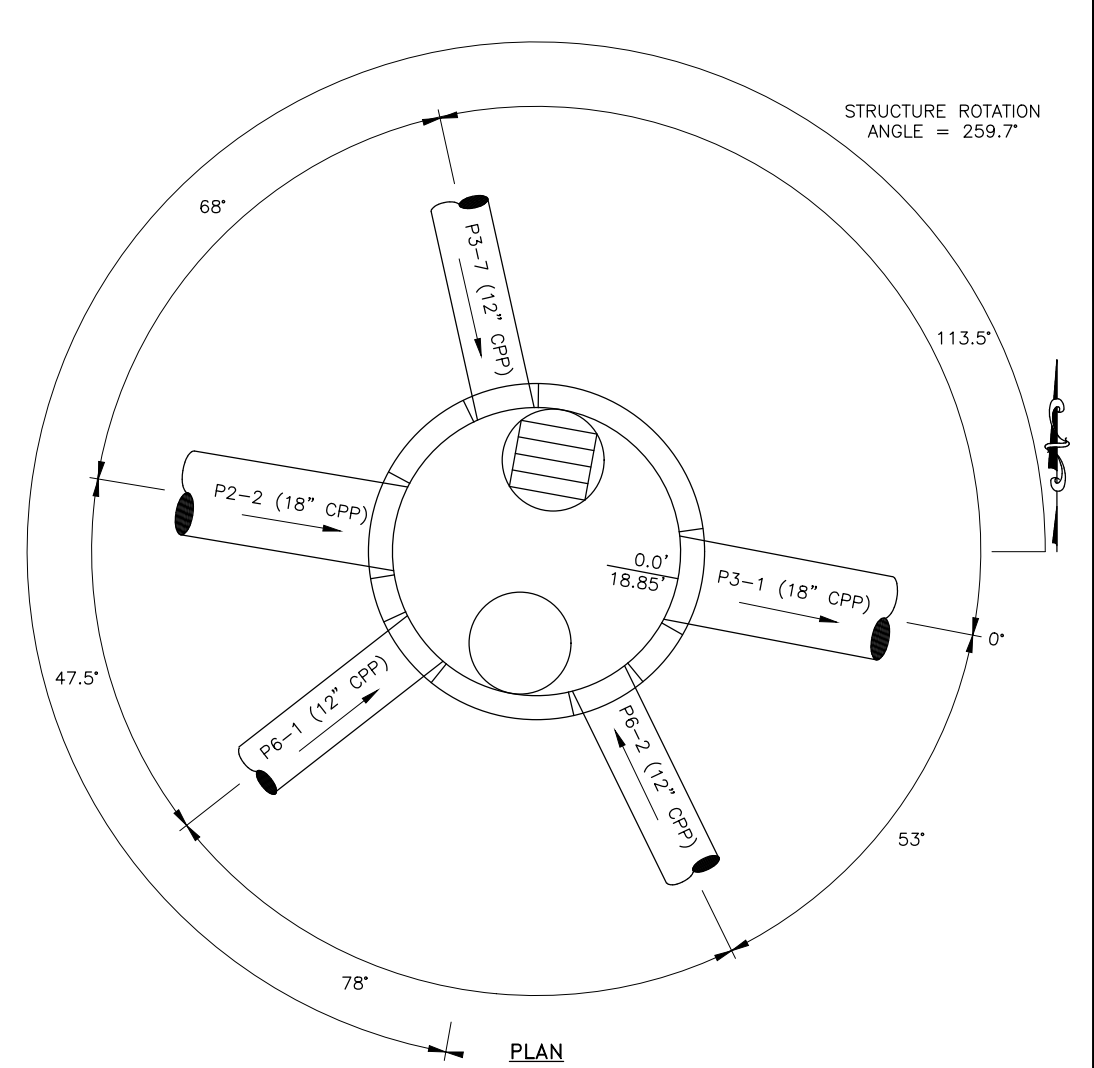
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	U12	U26



PLAN

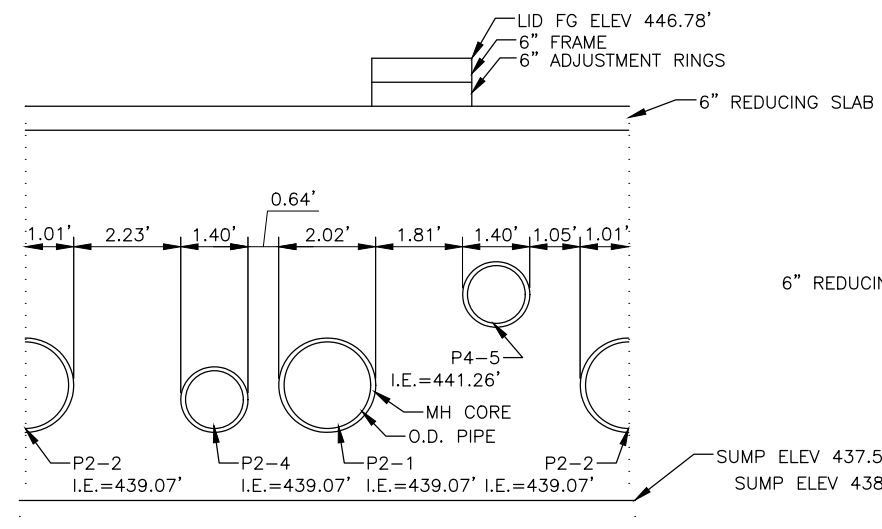


PLAN



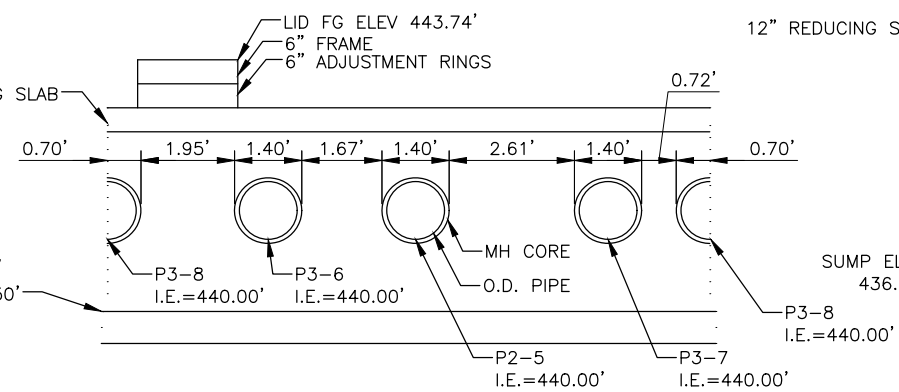
PLAN

STRUCTURE ROTATION ANGLE = 259.7°



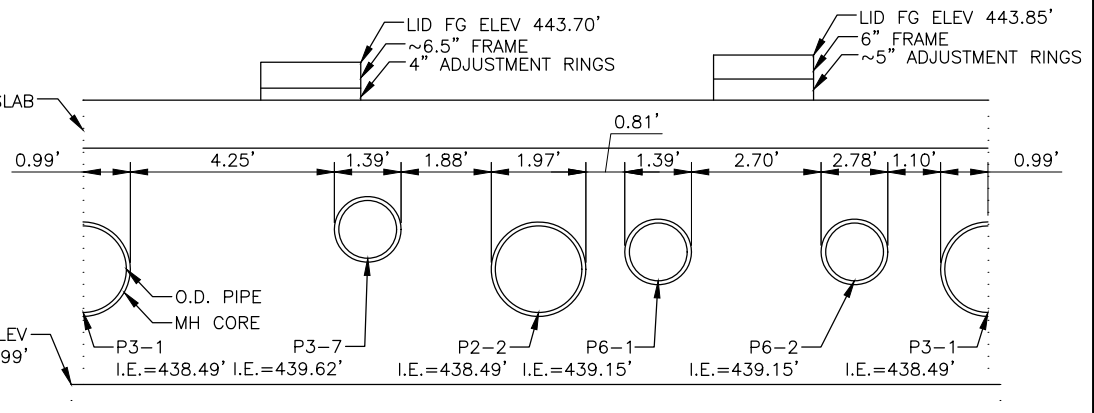
PROFILE

S2-2 MANHOLE PLAN AND PROFILE
NTS



PROFILE

S3-7 MANHOLE PLAN AND PROFILE
NTS



PROFILE

S3-1 MANHOLE PLAN AND PROFILE
NTS
STORM DRAIN DETAILS

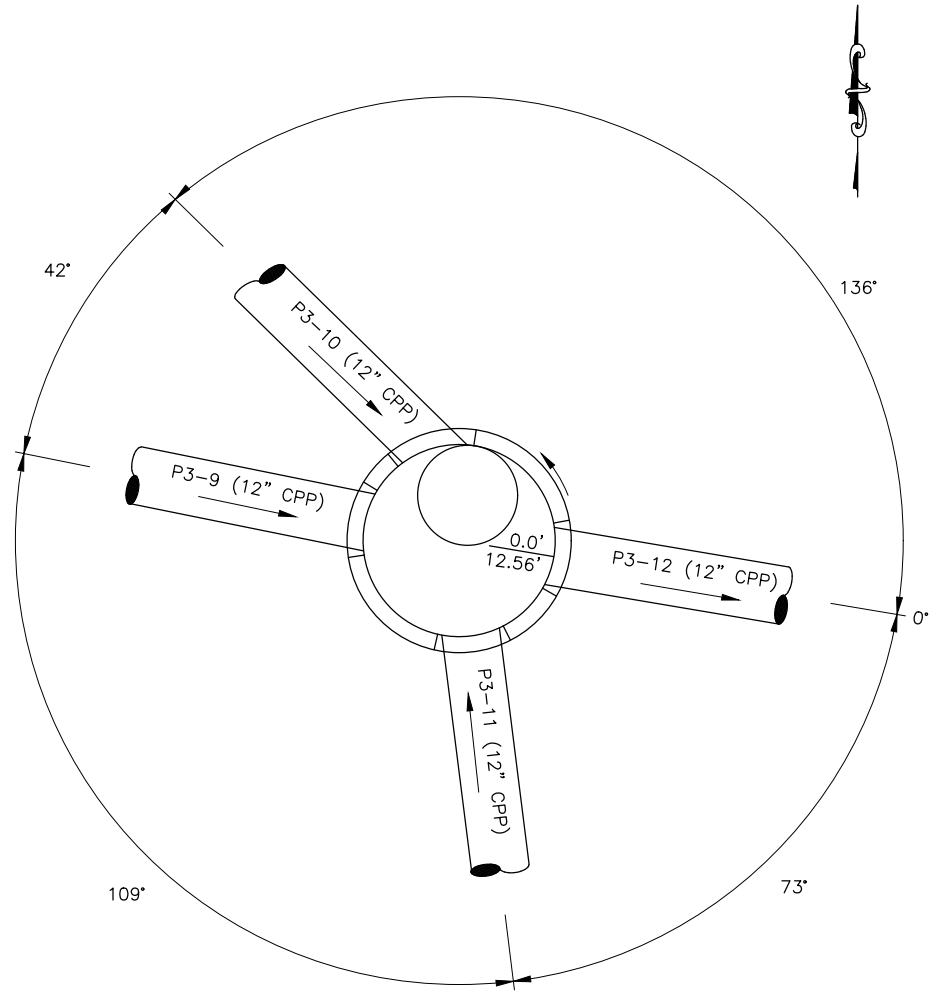
PLANS DEVELOPED BY:
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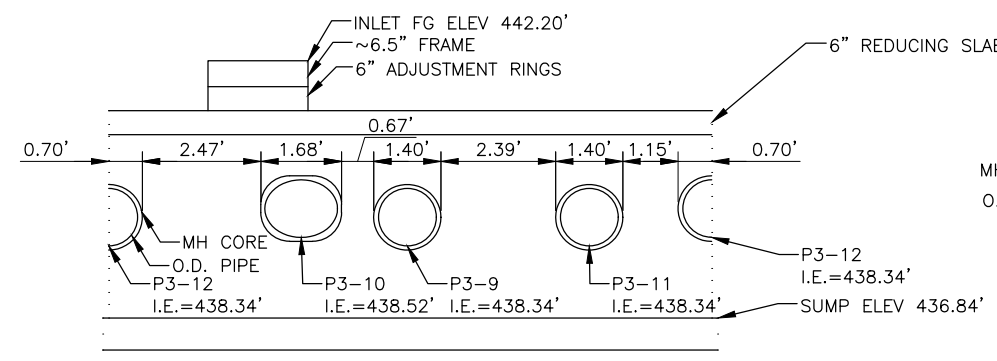
12/22/2022

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 (Bill Paddock) KE#: 00385

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			ALASKA	0002312/Z640780000	2024	U13	U26

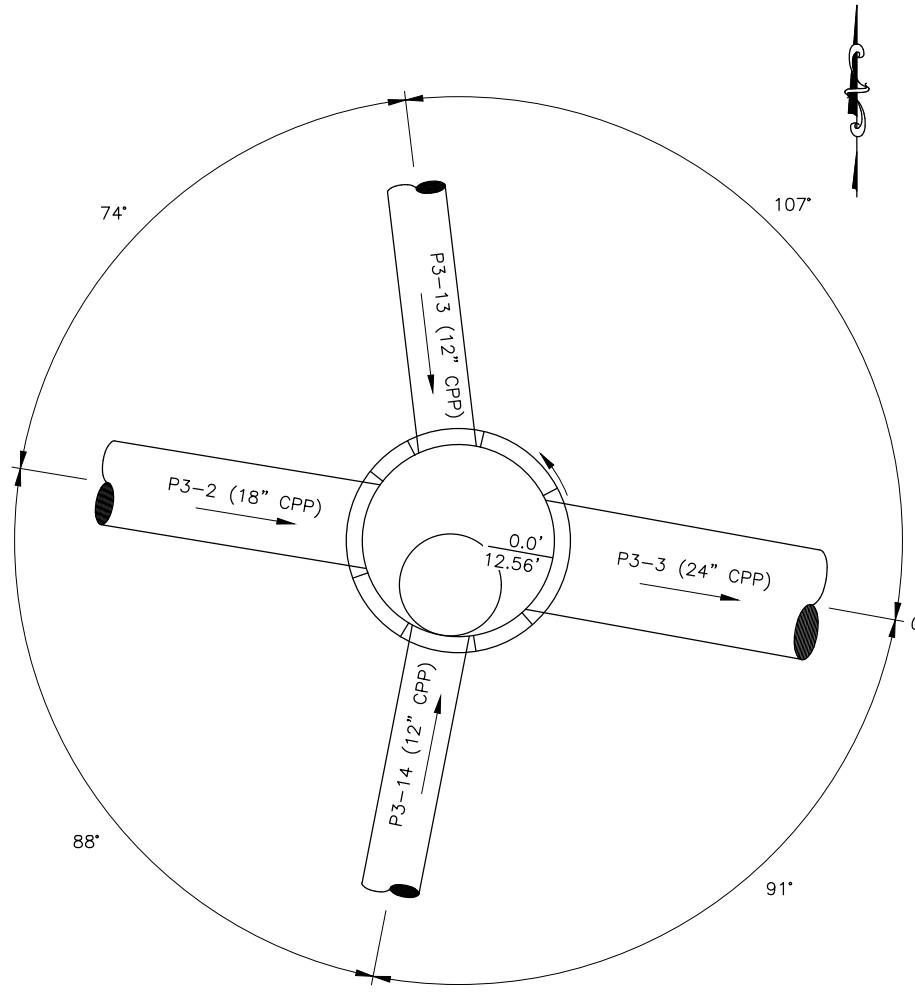


PLAN

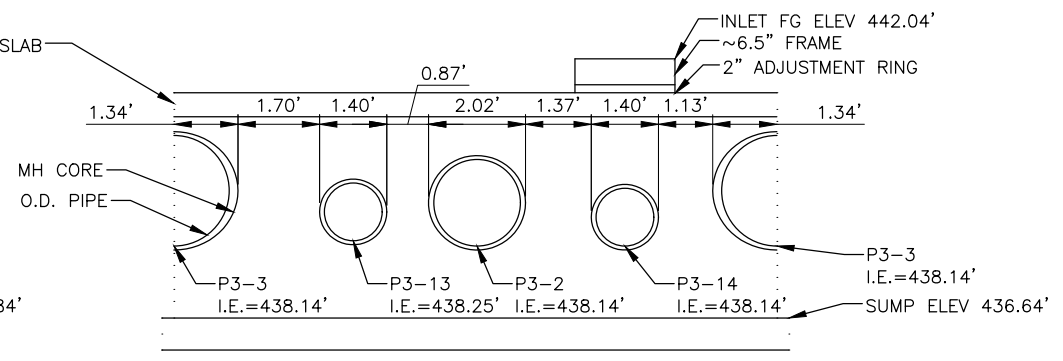


PROFILE

S3-11 MANHOLE PLAN AND PROFILE
NTS

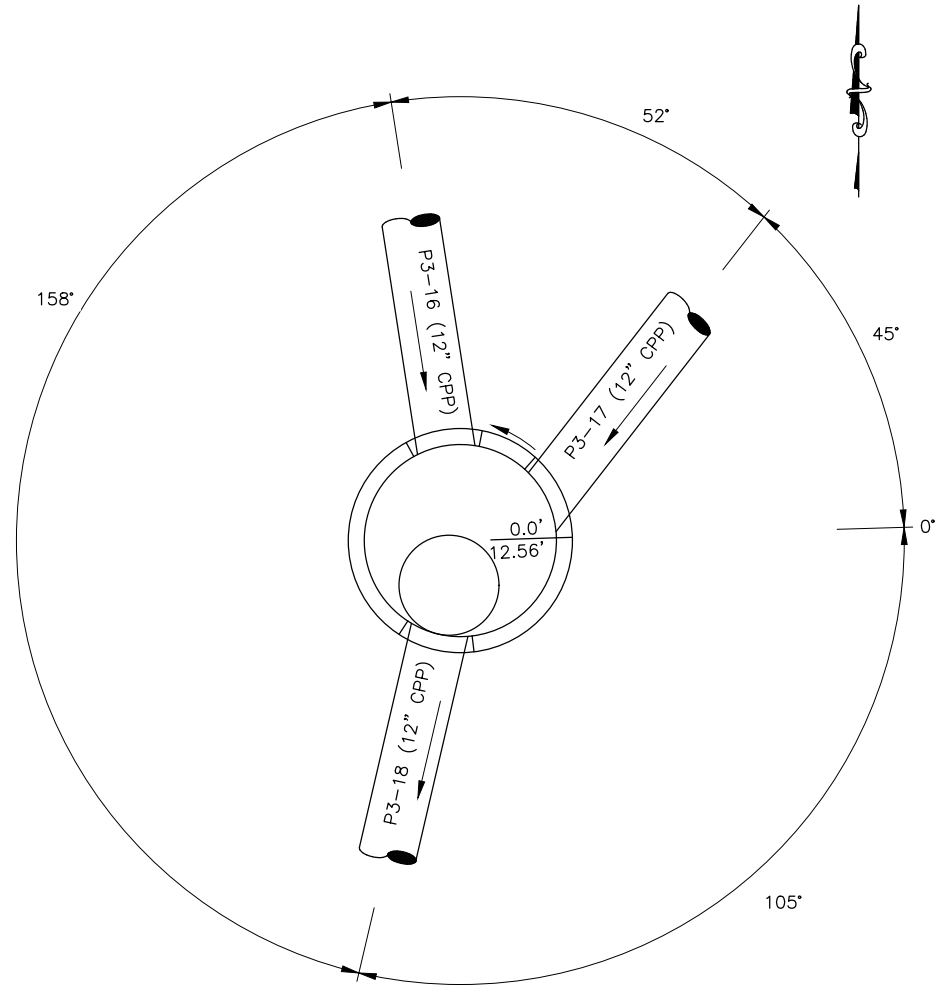


PLAN

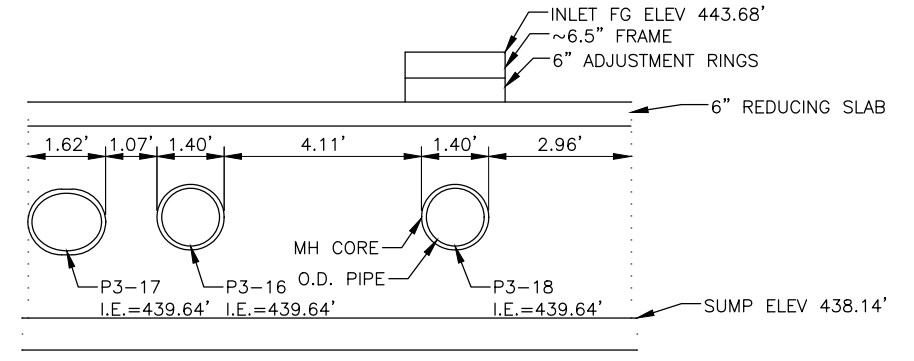


PROFILE

S3-3 MANHOLE PLAN AND PROFILE
NTS



PLAN



PROFILE

S3-18 MANHOLE PLAN AND PROFILE
NTS

STORM DRAIN DETAILS

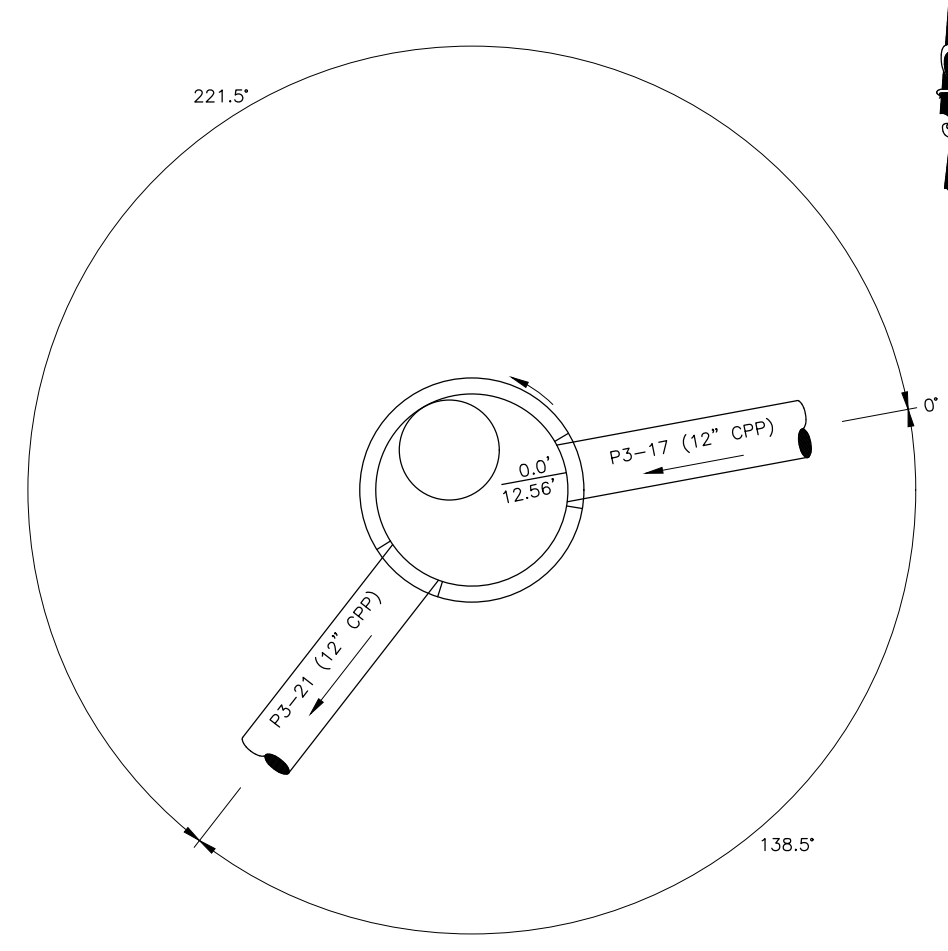
PLANS DEVELOPED BY:
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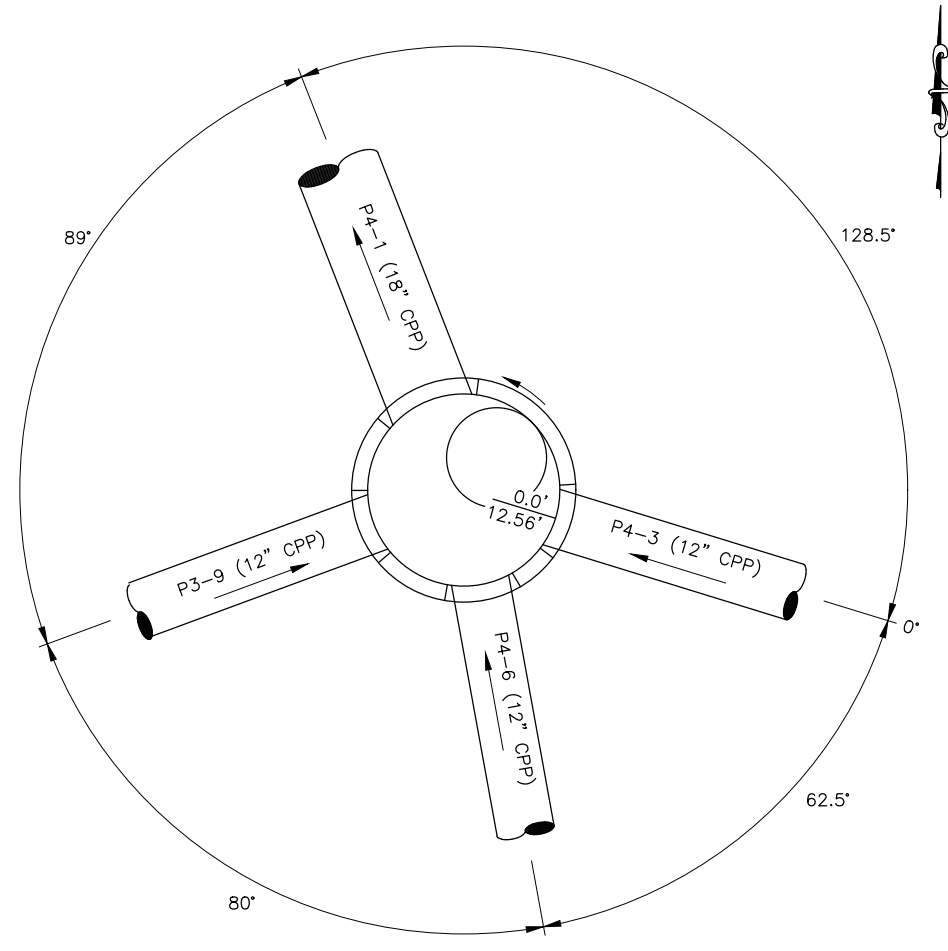
12/22/2022

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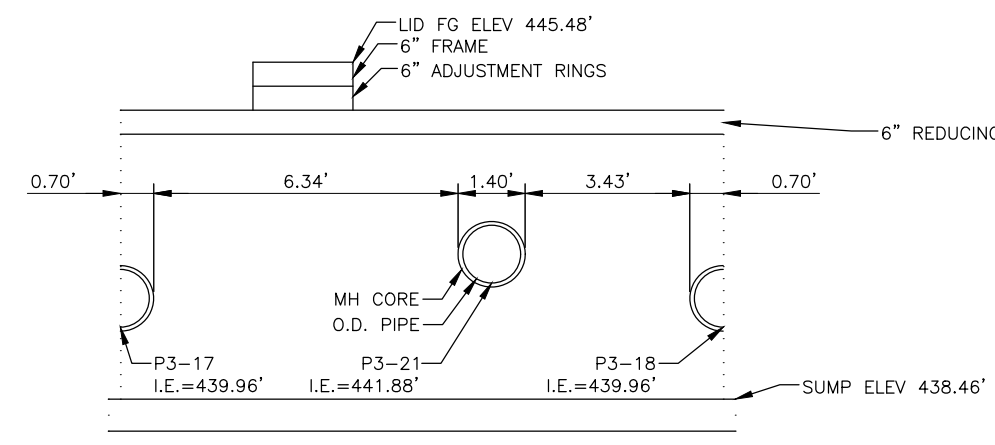
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PLAN

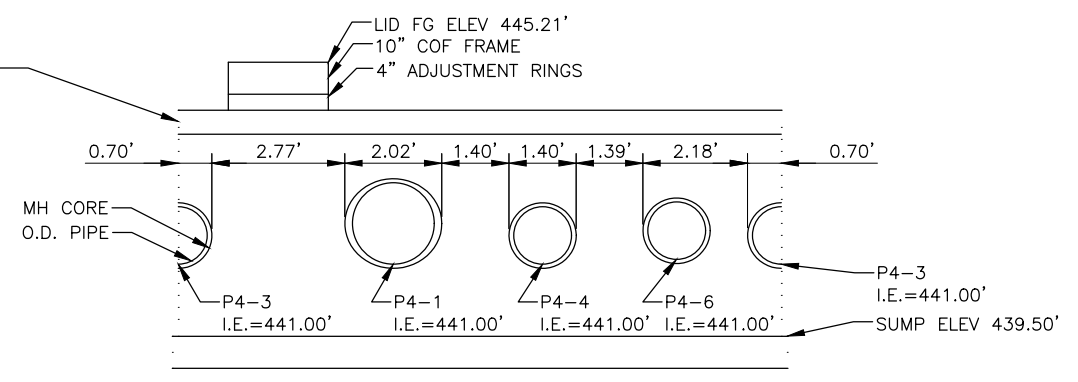


PLAN



PROFILE

S3-17 MANHOLE PLAN AND PROFILE
NTS



PROFILE

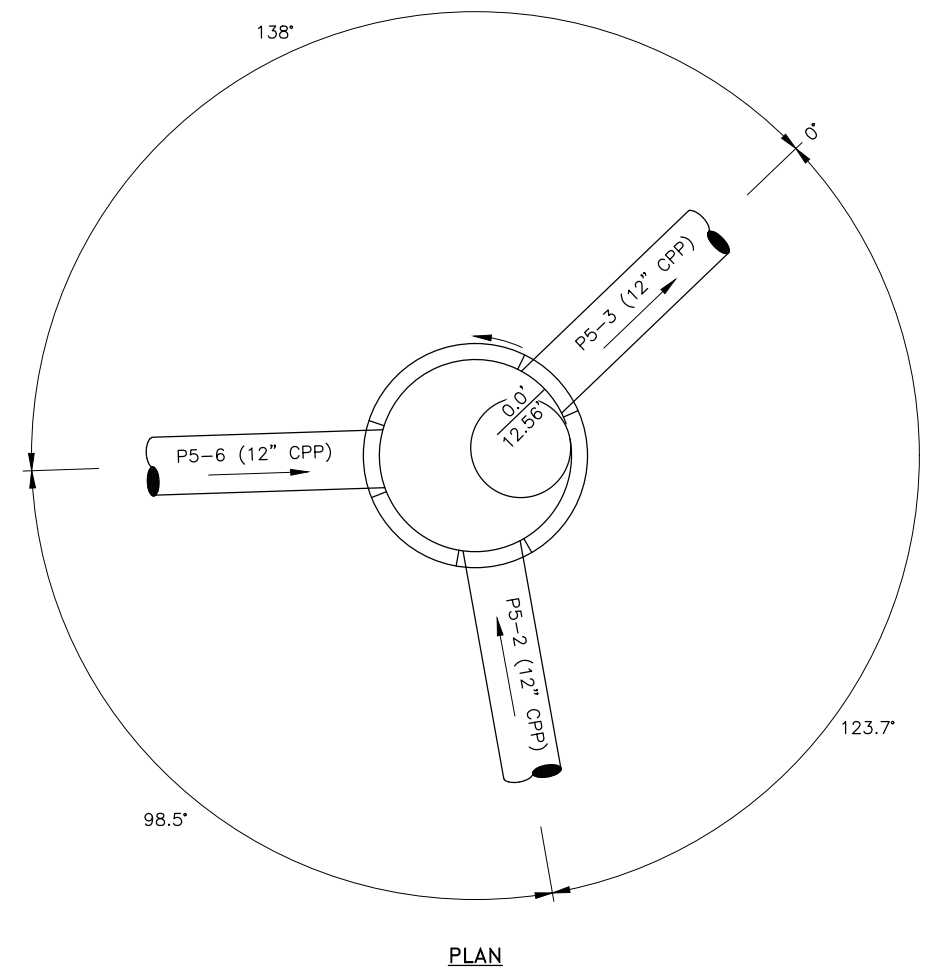
S4-1 MANHOLE PLAN AND PROFILE
NTS

STORM DRAIN DETAILS

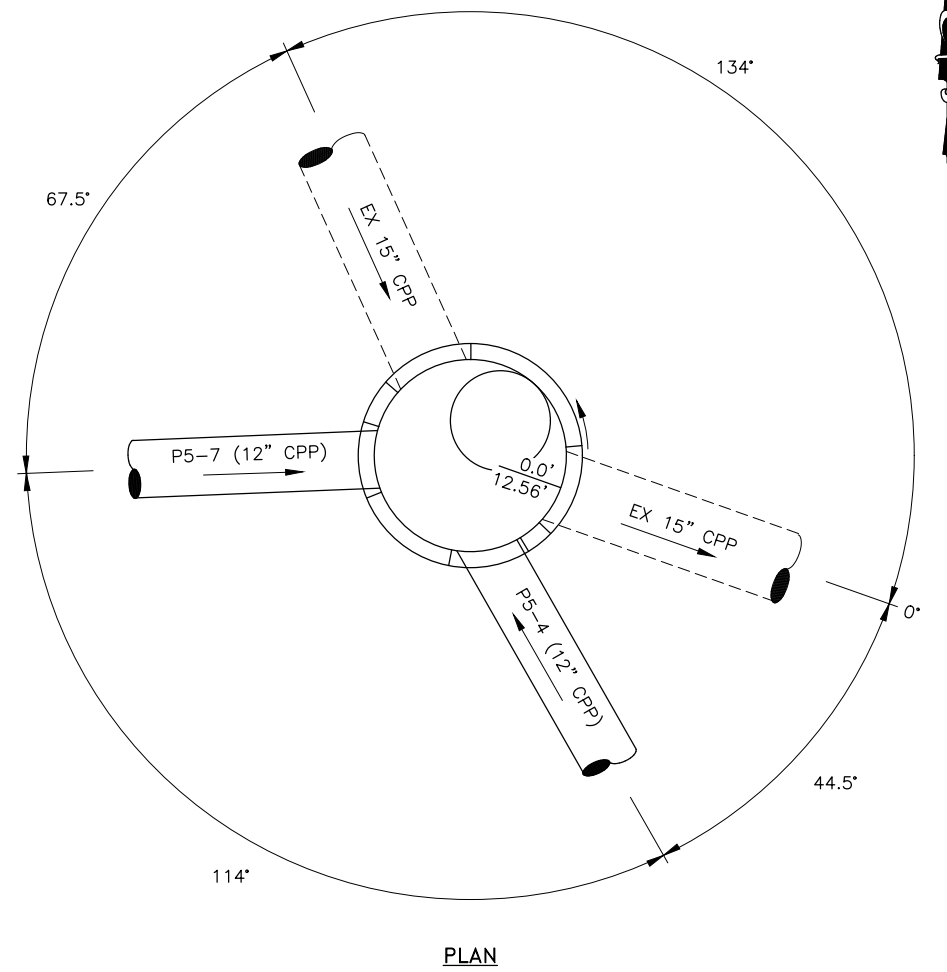
PLANS DEVELOPED BY:
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 (Bill Paddock) KE# 00385

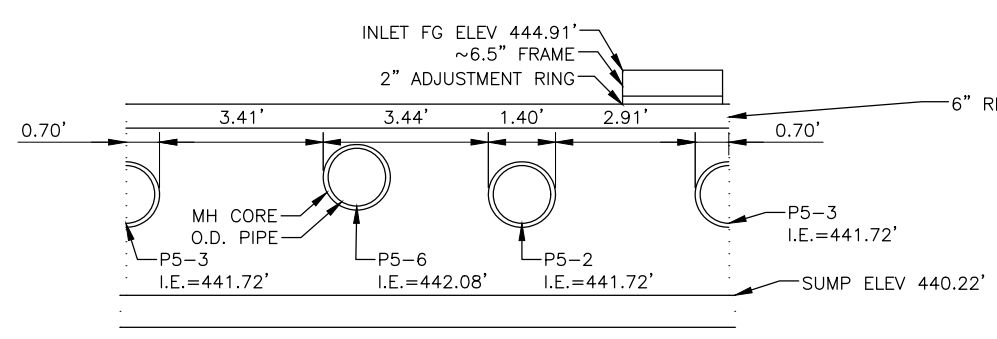
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PLAN

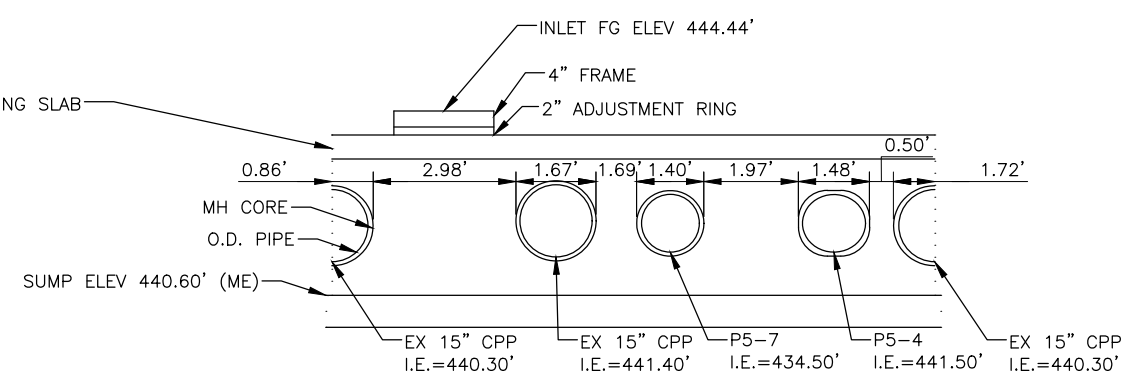


PLAN



PROFILE

S5-3 MANHOLE PLAN AND PROFILE
NTS



PROFILE

S5-5 MANHOLE PLAN AND PROFILE
NTS

STORM DRAIN DETAILS

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 (Bill Paddock) KE#- 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	U16	U25

STRUCTURE SUMMARY


STRUCTURE	604.0001.0001 MANHOLE, 48" TYPE I	604.0001.0002 MANHOLE, 72" TYPE II	604.0005.000A INLET, TYPE A	STATION	OFFSET	FG ELEV.	SUMP DEPTH	PIPES IN	PIPES OUT	COVER	REMARKS
S1-1			1	"A1" 154+04.77	43.75' LT	440.86'	1.5'		P1-1, INV OUT = 438.86'	STD CI AND GRATE	
S1-2			1	"A1" 154+50.02	43.75' LT	440.76'	1.5'	P1-1, INV IN = 438.70' P1-3, INV IN = 438.70'	P1-2, INV OUT = 438.70'	STD CI AND GRATE	
S1-3			1	"A1" 155+20.53	44.57' LT	440.86'	1.5'		P1-3, INV OUT = 438.96'	STD CI AND GRATE	
S1-4			1	"A1" 154+04.58	8.26' RT	442.15'	1.5'		P1-4, INV OUT = 439.51'	STD CI AND GRATE	
S1-5			1	"A1" 154+59.97	8.25' RT	442.06'	1.5'	P1-4, INV IN = 439.30' P1-6, INV IN = 439.30'	P1-5, INV OUT = 439.30'	STD CI AND GRATE	
S1-6			1	"A1" 155+19.88	8.25' RT	442.17'	1.5'		P1-6, INV OUT = 439.52'	STD CI AND GRATE	
S1-7			1	"A1" 155+41.15	43.25' RT	442.18'	1.5'		P1-7, INV OUT = 440.05'	STD CI AND GRATE	
S1-8			1	"A1" 156+00.42	43.24' RT	442.01'	1.5'	P1-15, INV IN = 440.00' P1-7, INV IN = 439.83'	P1-8, INV OUT = 439.83'	STD CI AND GRATE	
S1-9			1	"A1" 156+53.14	43.25' RT	442.47'	1.5'	P1-14, INV IN = 439.67' P1-8, INV IN = 439.67'	P1-9, INV OUT = 439.67'	STD CI AND GRATE	
S1-10			1	"A1" 157+32.78	54.82' LT	442.70'	1.5'		P1-10, INV OUT = 440.49'	STD CI AND GRATE	
S1-11			1	"A1" 158+40.41	70.90' LT	442.80'	1.5'	P1-10, INV IN = 440.08'	P1-11, INV OUT = 440.08'	FI FRAME AND GRATE	
S1-12		1		"A1" 158+75.18	48.25' RT	444.41'	1.5'	P1-9, INV IN = 439.45' P1-11, INV IN = 439.62' P2-6, INV IN = 439.65'	P1-12, INV OUT = 439.45'	COMB. SOLID AND MOD. CI AND FRAME	SRA= 264.8'. LID FG ELEV = 444.56'. INSTALL PIPES PER DETAIL ON U10.
S1-13 (EX)				"A1" 154+49.90	38.15' LT	441.00'	EX	P1-5, INV IN = 438.70' P1-2, INV IN = 438.70'	EX (18") W, INV OUT = 438.70'*	SOLID	RECONSTRUCT MANHOLE. INSTALL PIPES PER DETAIL ON U10.
S2-1			1	"A1" 160+89.27	36.75' RT	446.36'	1.5'	P1-12, INV IN = 439.33' P4-2, INV IN = 440.21'	P2-1, INV OUT = 439.33'	STD CI AND GRATE	
S2-2	1			"A1" 162+06.16	40.16' RT	446.78'	1.5'	P2-4, INV IN = 439.07' P2-1, INV IN = 439.07' P4-5, INV IN = 441.26'	P2-2, INV OUT = 439.07'	SOLID	INSTALL PIPES PER DETAIL ON U11
S2-4			1	"A1" 161+71.42	49.08' LT	446.28'	1.5'		P2-4, INV OUT = 439.66'	STD CI AND GRATE	
S2-5			1	"A1" 163+09.17	58.75' LT	445.07'	1.5'		P2-5, INV OUT = 440.43'	STD CI AND GRATE	
S2-6			1	"A1" 159+40.54	114.37' RT	442.74'	1.5'		P2-6, INV OUT = 440.00'	COF FI AND GRATE	
S3-1		1		"A1" 164+69.53	41.31' RT	443.70'	1.5'	P2-2, INV IN = 438.49' P6-2, INV IN = 439.15' P6-1, INV IN = 439.15' P3-7, INV IN = 439.62'	P3-1, INV OUT = 438.49'	COMB. SOLID AND MOD. CI AND FRAME	SRA= 259.7'. LID FG ELEV = 433.85'. INSTALL PIPES PER DETAIL ON U11. ALLOW FOR LESS THAN 6" ADJUSTMENT RINGS.
S3-2			1	"A1" 166+76.09	43.25' RT	442.20'	1.5'	P3-1, INV IN = 438.35'	P3-2, INV OUT = 438.35'	STD CI AND GRATE	
S3-3	1			"A1" 167+36.05	42.31' RT	442.04'	1.5'	P3-13, INV IN = 438.25' P3-2, INV IN = 438.14' P3-14, INV IN = 438.14'	P3-3, INV OUT = 438.14'	MOD. CI AND GRATE	INSTALL PIPES PER DETAIL ON U12. ALLOW FOR 2" ADJUSTMENT RINGS
S3-4	1			"A1" 167+96.04	42.31' RT	442.28'	1.5'	P3-3, INV IN = 438.10'	P3-4, INV OUT = 438.10'	MOD. CI AND GRATE	ALLOW FOR 2" ADJUSTMENT RINGS
S3-5 (EX)				"A1" 169+68.65	37.95' RT	442.77'	EX	P3-4, INV IN = 437.90' P3-18, INV IN = 439.17' P3-20, INV IN = 439.40'	EX (24") E, INV OUT = 437.90'	SOLID	RECONSTRUCT MANHOLE
S3-6			1	"A1" 164+30.09	60.05' LT	442.86'	1.5'		P3-6, INV OUT = 440.03'	FI FRAME AND GRATE	
S3-7	1			"A1" 164+30.06	52.80' LT	443.74'	1.5'	P3-8, INV IN = 440.00' P2-5, INV IN = 440.00' P3-6, INV IN = 440.00'	P3-7, INV OUT = 440.00'	SOLID	INSTALL PIPES PER DETAIL ON U11
S3-8			1	"A1" 164+87.56	46.43' LT	443.75'	1.5'		P3-8, INV OUT = 440.21'	STD CI AND GRATE	

*BEFORE BEGINNING CONSTRUCTION OF NEW STORM DRAIN SYSTEM, VERIFY INVERTS OF EXISTING PIPES BEING RECONNECTED TO NEW STORM DRAIN. ALERT ENGINEER TO ANY DISCREPANCIES.

GENERAL STORM DRAIN SYSTEM NOTES:

- SEE STORM DRAIN NOTES SHEET U17.

STORM DRAIN
SUMMARY TABLES

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC

 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
 Z:\PROJECTS\DOT\FE\385_airport & cushman reconstruction\DWGS\C\Sheets\64078_U16-U18_UTIL_SUM TABLES-U17_Thu_Dec/22/22 11:08am
 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	U17	U25


STRUCTURE SUMMARY

STRUCTURE	604.0001.0001 MANHOLE, 48" TYPE I	604.0001.0002 MANHOLE, 72" TYPE II	604.0005.000A INLET, TYPE A	STATION	OFFSET	FG ELEV.	SUMP DEPTH	PIPES IN	PIPES OUT	COVER	REMARKS
S3-9			1	"A1" 166+51.01	45.77' LT	443.48'	1.5'		P3-9, INV OUT = 438.55'	STD CI AND GRATE	
S3-11	1			"A1" 167+09.07	44.60' LT	442.20'	1.5'	P3-12, INV IN = 438.34' P3-10B, INV IN = 438.52' P3-9, INV IN = 438.34'	P3-11, INV OUT = 438.34'	MOD. CI AND GRATE	INSTALL PIPES PER DETAIL ON U11
S3-12			1	"A1" 167+67.17	45.30' LT	443.47'	1.5'		P3-12, INV OUT = 438.55'	STD CI AND GRATE	
S3-13	1			"A1" 167+20.44	8.47' LT	443.56'	1.5'	P3-11, INV IN = 438.30'	P3-13, INV OUT = 438.30'	SOLID	
S3-15			1	"A1" 168+96.16	81.61' LT	444.04'	1.5'		P3-15, INV OUT = 440.90'	STD CI AND GRATE	
S3-16			1	"A1" 169+37.99	82.87' LT	443.97'	1.5'	P3-15, INV IN = 440.45'	P3-16, INV OUT = 440.45'	STD CI AND GRATE	
S3-17	1			"A1" 169+86.71	53.11' LT	445.48'	1.5'	P3-21, INV IN = 441.88'	P3-17, INV OUT = 439.96'	MOD. CI AND GRATE	INSTALL PIPES PER DETAIL ON U13
S3-18	1			"A1" 169+67.58	9.69' LT	443.68'	1.5'	P3-17, INV IN = 439.64' P3-16, INV IN = 439.65'	P3-18, INV OUT = 439.64'	MOD. CI AND GRATE	INSTALL PIPES PER DETAIL ON U12
S3-20			1	"A1" 169+68.50	43.25' RT	442.55'	1.5'	P3-19, INV IN = 439.40'	P3-20, INV OUT = 439.50'	STD CI AND GRATE	
S4-1	1			"C1" 235+93.61	18.93' LT	445.21'	1.5'	P4-4, INV IN = 441.00' P4-3, INV IN = 441.00' P4-6, INV IN = 441.10'	P4-1, INV OUT = 441.00'	COF SOLID	INSTALL PIPES PER DETAIL ON U13. ALLOW FOR 4" ADJUSTMENT RINGS.
S4-2			1	"C1" 237+36.11	39.65' LT	445.47'	1.5'	P4-1, INV IN = 440.62'	P4-2, INV OUT = 440.58'	COF CI AND GRATE	
S4-3			1	"C1" 235+72.99	14.85' RT	445.35'	1.5'		P4-3, INV OUT = 442.58'	COF CI AND GRATE	
S4-4			1	"C1" 235+92.61	28.78' LT	445.03'	1.5'		P4-4, INV OUT = 441.04'	COF CI AND GRATE	
S4-5			1	"C1" 237+33.12	26.69' RT	445.83'	1.5'		P4-5, INV OUT = 441.73'	COF CI AND GRATE	
S5-1			1	"C1" 240+91.91	49.00' LT	444.62'	1.5'		P5-1, INV OUT = 442.41'	COF CI AND GRATE	
S5-2	1			"C1" 240+91.91	12.06' RT	445.38'	1.5'	P5-1, INV IN = 442.18'	P5-2, INV OUT = 442.18'	MOD. CI AND GRATE	ALLOW FOR 4" ADJUSTMENT RINGS
S5-3	1			"C1" 242+15.66	12.06' RT	444.91'	1.5'	P5-6, INV IN = 442.08' P5-2, INV IN = 441.72'	P5-3, INV OUT = 441.72'	MOD. CI AND GRATE	INSTALL PIPES PER DETAIL ON U14. ALLOW FOR 4" ADJUSTMENT RINGS
S5-4			1	"C1" 242+39.42	47.74' RT	444.41'	0.0'	P5-3, INV IN = 441.56'	P5-4, INV OUT = 441.56'	COF CI AND GRATE	INSULATE STRUCTURE
S5-5 (EX)				"C1" 242+55.43	43.54' RT	444.44'	EX	EX (15") NW INV IN = 441.40' P5-7, INV IN = 441.50' P5-4, INV IN = 441.50'	EX (15") E INV OUT = 441.30'	COF SOLID	RECONSTRUCT MANHOLE. INSTALL PIPES PER DETAIL ON U14. ALLOW FOR 4" FRAME AND 2" ADJUSTMENT RINGS.
S5-6			1	"C1" 242+21.07	25.00' LT	444.60'	1.5'		P5-6, INV OUT = 442.22'	COF CI AND GRATE	
S5-7			1	"C1" 242+68.59	51.71' LT	444.42'	1.5'	P5-8, INV IN = 441.70'	P5-7, INV OUT = 441.70'	COF CI AND GRATE	INSULATE STRUCTURE
S5-8 (EX)				"C1" 243+12.22	45.24' LT	443.84'	EX		P5-8, INV OUT = 441.80'	EX	RECONSTRUCT INLET
S6-1			1	"14th" 301+05.87	37.66' RT	441.30'	1.5'		P6-1, INV OUT = 439.61'	COF FI AND GRATE	PROVIDE INLET BOX WITH INTEGRAL FRAME PER DETAIL ON U10
S6-2			1	"14th" 302+15.21	16.75' RT	443.53'	1.5'		P6-2, INV OUT = 439.53'	COF CI AND GRATE	
TOTALS	11	2	33								

GENERAL STORM DRAIN SYSTEM NOTES:

- BEFORE BEGINNING CONSTRUCTION OF STORM DRAIN SYSTEM, CONDUCT POTHOLING TO VERIFY EXISTING UG UTILITIES LOCATION AND ELEVATION WHERE PROPOSED STORM DRAIN SYSTEM CROSSES. THIS WORK SHALL BE SUBSIDIARY TO CPP PAY ITEMS. NOTIFY THE ENGINEER IMMEDIATELY UPON IDENTIFYING AN UNDERGROUND CONFLICT BETWEEN AN EXISTING UTILITY AND PROPOSED UTILITY IMPROVEMENT. SEE SECTION 202 FOR MORE INFORMATION REGARDING RESOLUTION OF UNDERGROUND CONFLICTS.
- ANY CHANGES TO STRUCTURE LOCATION; INVERTS OF PIPES IN OR OUT, FG ELEVATION, OR SUMP DEPTH; PIPE SLOPES; AND COVER TYPE SHALL BE APPROVED BY ENGINEER.
- FG ELEV. COLUMN REFERS TO THE GRADE POINT IN STORM DRAIN CATCH BASIN DETAIL (NORMAL FLOW LINE IN AK STD PLAN) AND PAVEMENT SURFACE IN MANHOLE DETAILS. DEPRESS THE FRAMES, GRATES, AND LIDS PER THE PLANS AND SPECIFICATIONS.
- PIPE LENGTHS PRESENTED ARE MEASURED HORIZONTALLY FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- PIPE SLOPES ARE CALCULATED USING THE INVERT ELEVATION DIFFERENCE DIVIDED BY THE PIPE LENGTH AS DEFINED IN NOTE 4.
- STATION AND OFFSET REFERENCE POINT IS TO CENTER OF STRUCTURE.
- UNLESS NOTED FOR COF (CITY OF FAIRBANKS) ALL ITEMS LISTED IN COVER COLUMN SHALL MEET REQUIREMENTS OF STANDARD PLANS. SEE V SHEETS FOR COF SD DETAILS AND STANDARD PLANS.
- STRUCTURES S2-3 AND S3-19 NOT USED. PIPE P2-3 NOT USED.

STORM DRAIN
SUMMARY TABLES

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC

 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Bill Paddock) KE#: 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	U18	U25

**603.0021.0000
CORRUGATED POLYETHELENE PIPE SUMMARY**

PIPE	INLET INVERT	OUTLET INVERT	LENGTH (FT)	SIZE	SLOPE	REMARKS
P1-1	438.86	438.70	43.7'	12"	0.37%	
P1-2	438.70	438.70	5.6'	12"	0.00%	
P1-3	438.70	438.96	69.6'	12"	0.37%	
P1-4	439.51	439.30	55.8'	12"	0.38%	
P1-5	439.30	438.70	47.5'	12"	1.26%	
P1-6	439.30	439.52	60.0'	12"	0.37%	
P1-7	440.05	439.83	59.3'	12"	0.37%	
P1-8	439.83	439.67	52.7'	12"	0.29%	
P1-9	439.67	439.45	222.0'	18"	0.10%	
P1-10	440.49	440.08	108.8'	12"	0.38%	
P1-11	440.08	439.62	124.2'	12"	0.37%	
P1-12	439.45	439.33	213.0'	18"	0.06%	
P1-14	439.70	439.67	8.8'	8"	0.37%	
P1-15	440.02	440.00	5.8'	8"	0.34%	SEE CPP TO PVC DETAIL
P2-1	439.33	439.07	116.2'	18"	0.22%	
P2-2	439.07	438.49	261.8'	18"	0.22%	
P2-4	439.66	439.07	95.8'	12"	0.62%	
P2-5	440.43	440.00	122.1'	12"	0.35%	
P2-6	440.00	439.65	92.3'	12"	0.38%	
P3-1	438.49	438.35	206.6'	18"	0.07%	
P3-2	438.35	438.14	60.0'	18"	0.35%	
P3-3	438.14	438.10	60.0'	24"	0.07%	
P3-4	438.10	437.90	169.8'	24"	0.12%	
P3-6	440.03	440.00	7.2'	12"	0.37%	
P3-7	440.00	439.62	102.1'	12"	0.37%	
P3-8	440.21	440.00	58.0'	12"	0.37%	
P3-9	438.55	438.34	58.1'	12"	0.37%	
P3-10A	439.90	439.20	23.0'	12"	3.07%	30' BEND CONNECTS TO P3-10B

**603.0021.0000
CORRUGATED POLYETHELENE PIPE SUMMARY**

PIPE	INLET INVERT	OUTLET INVERT	LENGTH (FT)	SIZE	SLOPE	REMARKS
P3-10B	439.20	438.52	22.3'	12"	3.00%	
P3-11	438.34	438.30	37.9'	12"	0.10%	
P3-12	438.55	438.34	58.1'	12"	0.37%	
P3-13	438.30	438.25	53.1'	12"	0.10%	
P3-14	439.20	438.14	9.7'	12"	10.96%	
P3-15	440.90	440.45	44.1'	12"	1.01%	
P3-16	440.45	439.65	79.3'	12"	1.01%	
P3-17	439.96	439.64	47.6'	12"	0.68%	
P3-18	439.64	439.17	47.7'	12"	0.99%	
P3-19	439.60	439.40	9.2'	12"	2.18%	
P3-20	439.50	439.40	5.3'	12"	1.89%	
P3-21	441.97	441.88	10.1'	12"	0.93%	SEE CPP TO CMP DETAIL
P4-1	441.00	440.62	146.4'	18"	0.26%	
P4-2	440.58	440.21	143.4'	18"	0.26%	
P4-3	442.58	441.00	39.6'	12"	3.99%	SEE NOTE 1 ON SHEET U17 FOR CROSSING EX UTILITY
P4-4	441.04	441.00	9.9'	12"	0.40%	
P4-5	441.73	441.26	106.2'	12"	0.44%	
P4-6	441.14	441.10	12.0'	12"	0.33%	
P5-1	442.41	442.18	61.1'	12"	0.38%	
P5-2	442.18	441.72	123.7'	12"	0.37%	
P5-3	441.72	441.56	42.9'	12"	0.36%	SEE NOTE 1 ON SHEET U17 FOR CROSSING EX UTILITY
P5-4	441.56	441.50	16.6'	12"	0.36%	
P5-6	442.22	442.08	37.5'	12"	0.37%	
P5-7	441.70	441.50	96.1'	12"	0.21%	SEE NOTE 1 ON SHEET U17 FOR CROSSING EX UTILITY
P5-8	441.80	441.70	44.7'	12"	0.22%	
P6-1	439.61	439.15	107.9'	12"	0.43%	
P6-2	439.53	439.15	57.3'	12"	0.66%	

NOTE:
1. GENERAL SD NOTES ON SHEET U17

604.0003.0000 RECONSTRUCT EXISTING MANHOLE

STATION	OFFSET	REMARKS
'A1'154+50	38' LT	
'A1'159+14	54' RT	SANITARY SEWER MANHOLE
'A1'161+15	58' RT	SANITARY SEWER MANHOLE
'A1'163+29	59' RT	SANITARY SEWER MANHOLE
'A1'166+81	79' LT	
'C1'242+55	44' RT	

604.0004.0000 ADJUST EXISTING MANHOLE

STATION	OFFSET	REMARKS
"A1"163+29	59' RT	SANITARY SEWER MANHOLE
"A1"163+32	55' LT	SANITARY SEWER MANHOLE
"A1"163+39	110' RT	SANITARY SEWER MANHOLE
"A1"164+29	116' RT	SANITARY SEWER MANHOLE
"A1"165+17	77' RT	
'C1'237+22	23' RT	
'C1'240+20	31' LT	
14th'300+45	9' RT	
14th'301+38	35' RT	

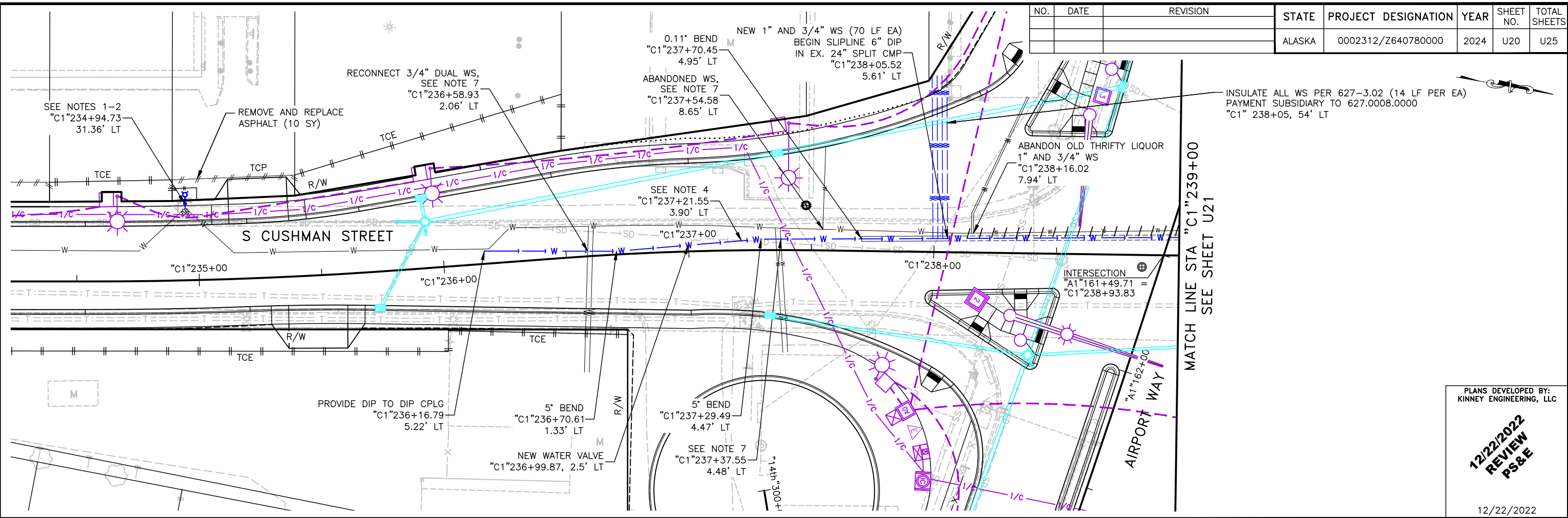
604.0010.0000 RECONSTRUCT INLET

STATION	OFFSET	REMARKS
'C1'243+12	45' LT	

STORM DRAIN
SUMMARY TABLES

PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
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 12/22/2022

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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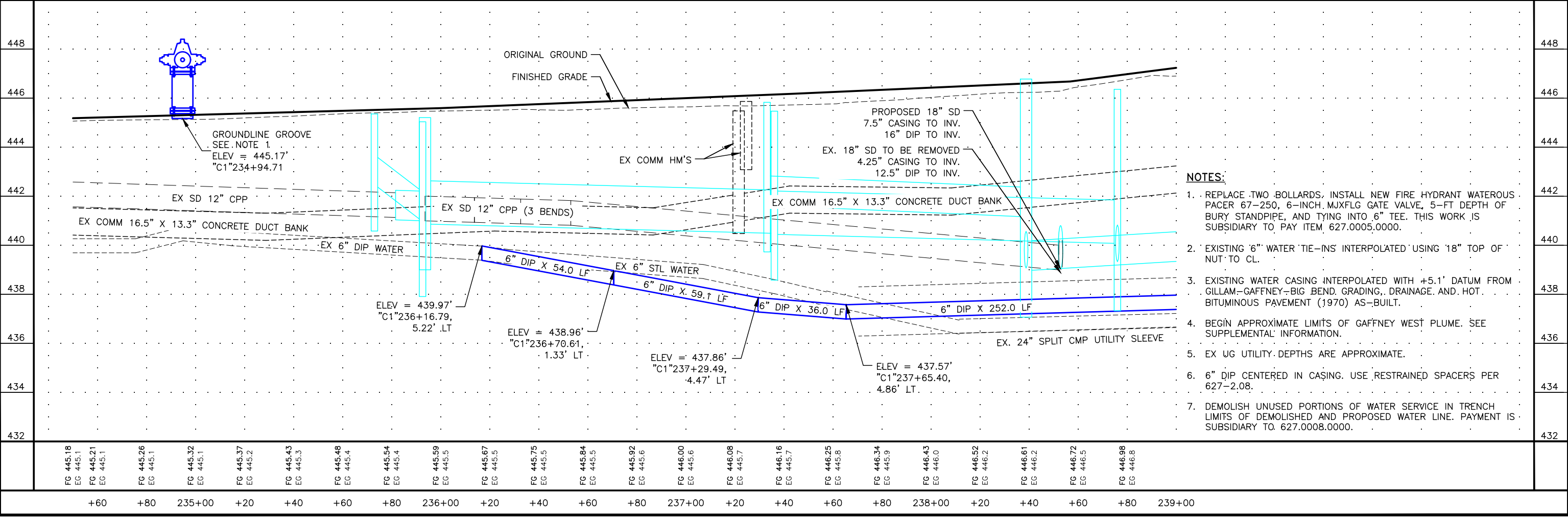


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	U20	U25

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
 REVIEW
 PS&E

12/22/2022

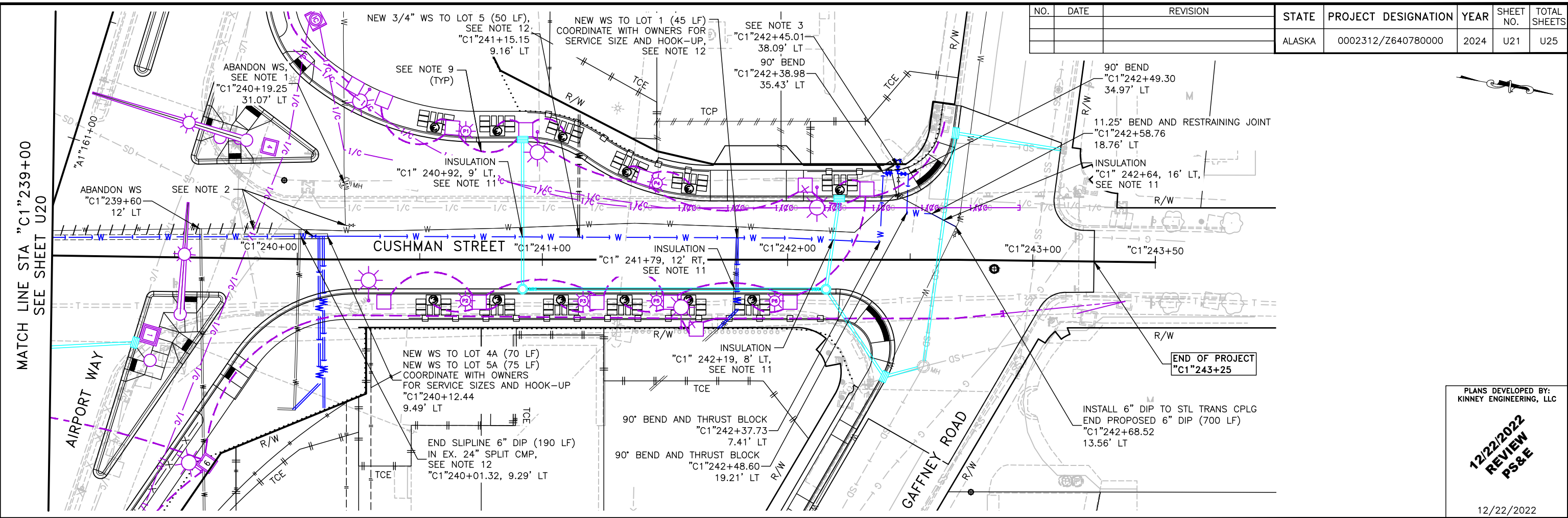


- NOTES:**
- REPLACE TWO BOLLARDS. INSTALL NEW FIRE HYDRANT WATEROUS PACER 67-250, 6-INCH MIXFLG GATE VALVE, 5-FT DEPTH OF BURY STANDPIPE, AND TYING INTO .6" TEE. THIS WORK IS SUBSIDIARY TO PAY ITEM 627.0005.0000.
 - EXISTING "6" WATER TIE-INS INTERPOLATED USING "18" TOP OF NUT TO CL.
 - EXISTING WATER CASING INTERPOLATED WITH +5.1' DATUM FROM GILLAM-GAFFNEY-BIG BEND GRADING, DRAINAGE, AND HOT BITUMINOUS PAVEMENT (1970) AS-BUILT.
 - BEGIN APPROXIMATE LIMITS OF GAFFNEY WEST PLUME. SEE SUPPLEMENTAL INFORMATION.
 - EX UG UTILITY DEPTHS ARE APPROXIMATE.
 - "6" DIP CENTERED IN CASING. USE RESTRAINED SPACERS PER 627-2.08.
 - DEMOLISH UNUSED PORTIONS OF WATER SERVICE IN TRENCH LIMITS OF DEMOLISHED AND PROPOSED WATER LINE. PAYMENT IS SUBSIDIARY TO 627.0008.0000.

FG 445.18	FG 445.26	FG 445.32	FG 445.37	FG 445.43	FG 445.48	FG 445.54	FG 445.59	FG 445.67	FG 445.75	FG 445.84	FG 445.92	FG 446.00	FG 446.08	FG 446.16	FG 446.25	FG 446.34	FG 446.43	FG 446.52	FG 446.61	FG 446.72	FG 446.88	
EG 445.1	EG 445.1	EG 445.1	EG 445.2	EG 445.3	EG 445.4	EG 445.4	EG 445.5	EG 445.5	EG 445.5	EG 445.5	EG 445.6	EG 445.6	EG 445.7	EG 445.7	EG 445.8	EG 445.9	EG 446.0	EG 446.2	EG 446.2	EG 446.5	EG 446.8	
+60	+80	235+00	+20	+40	+60	+80	236+00	+20	+40	+60	+80	237+00	+20	+40	+60	+80	238+00	+20	+40	+60	+80	239+00

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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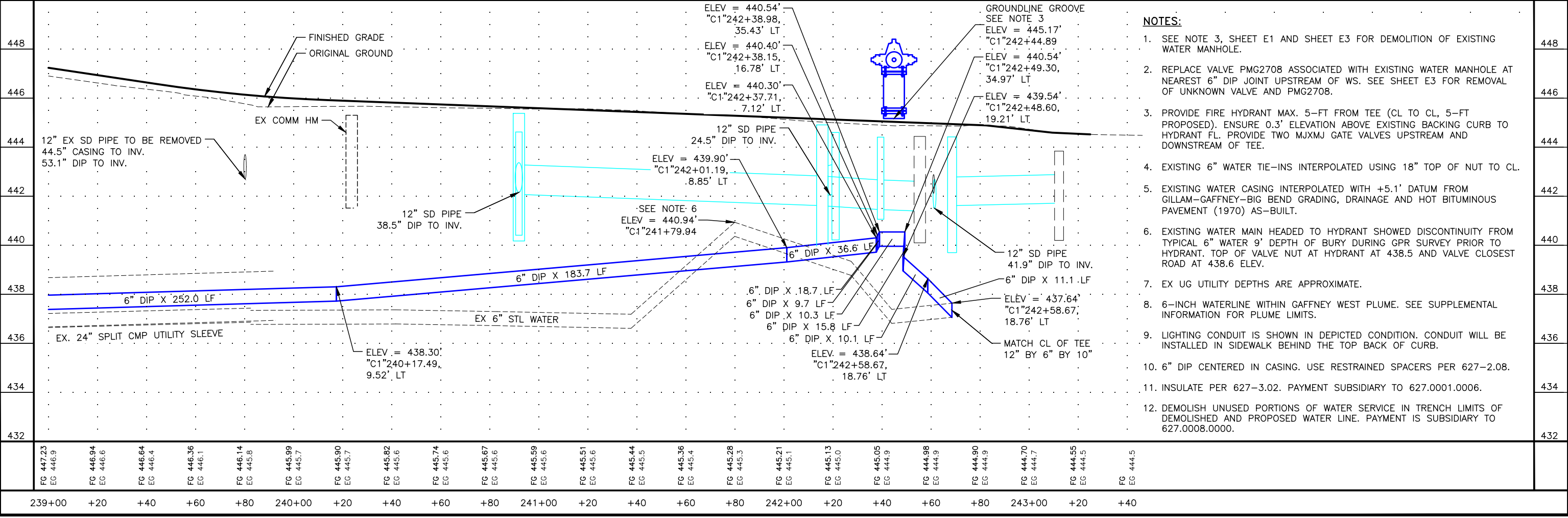
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	U21	U25



PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

12/22/2022
 REVIEW
 PS&E

12/22/2022

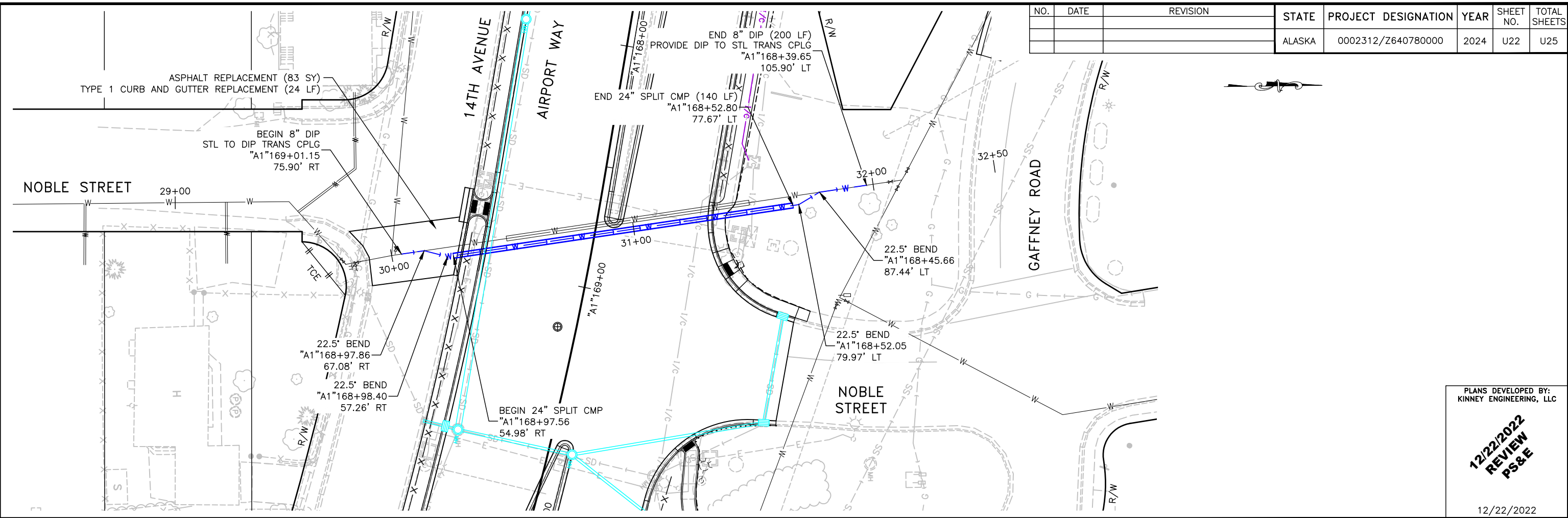


- NOTES:**
- SEE NOTE 3, SHEET E1 AND SHEET E3 FOR DEMOLITION OF EXISTING WATER MANHOLE.
 - REPLACE VALVE PMG2708 ASSOCIATED WITH EXISTING WATER MANHOLE AT NEAREST 6" DIP JOINT UPSTREAM OF WS. SEE SHEET E3 FOR REMOVAL OF UNKNOWN VALVE AND PMG2708.
 - PROVIDE FIRE HYDRANT MAX. 5-FT FROM TEE (CL TO CL, 5-FT PROPOSED). ENSURE 0.3' ELEVATION ABOVE EXISTING BACKING CURB TO HYDRANT FL. PROVIDE TWO MJXMJ GATE VALVES UPSTREAM AND DOWNSTREAM OF TEE.
 - EXISTING 6" WATER TIE-INS INTERPOLATED USING 18" TOP OF NUT TO CL.
 - EXISTING WATER CASING INTERPOLATED WITH +5.1' DATUM FROM GILLAM-GAFFNEY-BIG BEND GRADING, DRAINAGE AND HOT BITUMINOUS PAVEMENT (1970) AS-BUILT.
 - EXISTING WATER MAIN HEADED TO HYDRANT SHOWED DISCONTINUITY FROM TYPICAL 6" WATER 9' DEPTH OF BURY DURING GPR SURVEY PRIOR TO HYDRANT. TOP OF VALVE NUT AT HYDRANT AT 438.5 AND VALVE CLOSEST ROAD AT 438.6 ELEV.
 - EX UG UTILITY DEPTHS ARE APPROXIMATE.
 - 6-INCH WATERLINE WITHIN GAFFNEY WEST PLUME. SEE SUPPLEMENTAL INFORMATION FOR PLUME LIMITS.
 - LIGHTING CONDUIT IS SHOWN IN DEPICTED CONDITION. CONDUIT WILL BE INSTALLED IN SIDEWALK BEHIND THE TOP BACK OF CURB.
 - 6" DIP CENTERED IN CASING. USE RESTRAINED SPACERS PER 627-2.08.
 - INSULATE PER 627-3.02. PAYMENT SUBSIDIARY TO 627.0001.0006.
 - DEMOLISH UNUSED PORTIONS OF WATER SERVICE IN TRENCH LIMITS OF DEMOLISHED AND PROPOSED WATER LINE. PAYMENT IS SUBSIDIARY TO 627.0008.0000.

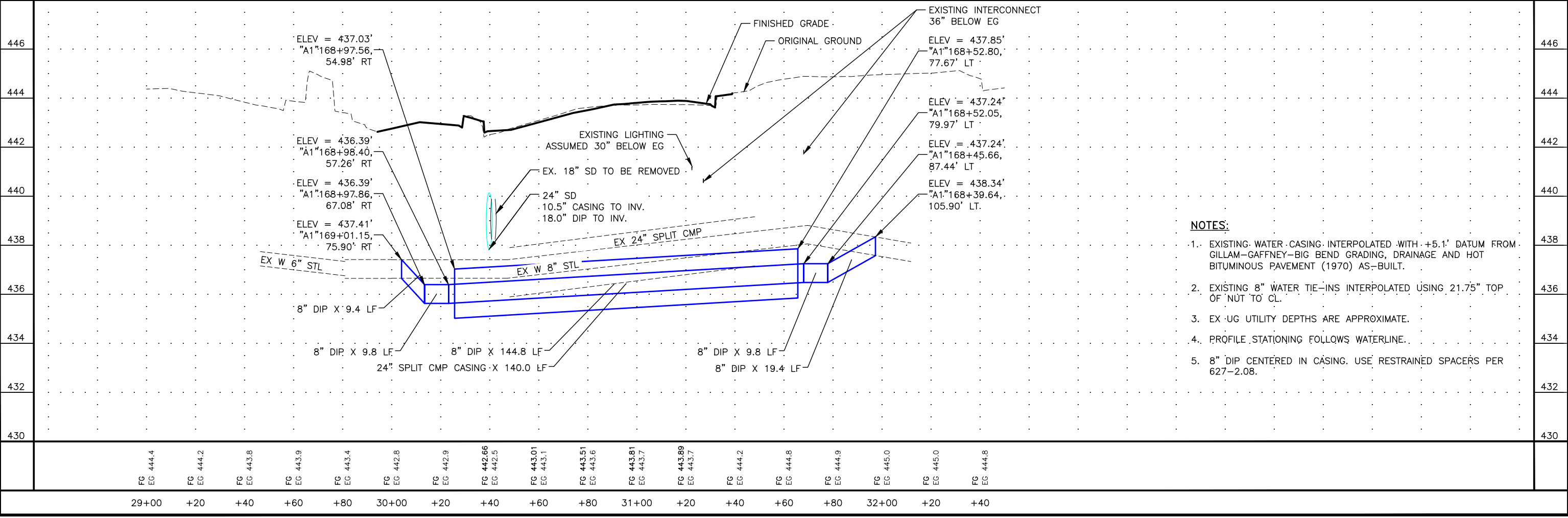
FG 447.23	FG 446.94	FG 446.64	FG 446.36	FG 446.14	FG 445.99	FG 445.90	FG 445.82	FG 445.74	FG 445.67	FG 445.59	FG 445.51	FG 445.44	FG 445.36	FG 445.28	FG 445.21	FG 445.13	FG 445.05	FG 444.98	FG 444.90	FG 444.70	FG 444.55	FG 444.5	FG 444.5
EG 446.9	EG 446.6	EG 446.4	EG 446.1	EG 445.8	EG 445.7	EG 445.7	EG 445.6	EG 445.6	EG 445.6	EG 445.6	EG 445.6	EG 445.5	EG 445.4	EG 445.3	EG 445.1	EG 445.0	EG 444.9	EG 444.9	EG 444.9	EG 444.7	EG 444.5	EG 444.5	EG 444.5
239+00	+20	+40	+60	+80	240+00	+20	+40	+60	+80	241+00	+20	+40	+60	+80	242+00	+20	+40	+60	+80	243+00	+20	+40	

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 (Bill Paddock) KE# 00385

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	U22	U25



PLANS DEVELOPED BY:
 KINNEY ENGINEERING, LLC
12/22/2022
REVIEW
PS&E
 12/22/2022



- NOTES:**
- EXISTING WATER CASING INTERPOLATED WITH +5.1' DATUM FROM GILLAM-GAFFNEY-BIG BEND GRADING, DRAINAGE AND HOT BITUMINOUS PAVEMENT (1970) AS-BUILT.
 - EXISTING 8" WATER TIE-INS INTERPOLATED USING 21.75" TOP OF NUT TO CL.
 - EX UG UTILITY DEPTHS ARE APPROXIMATE.
 - PROFILE STATIONING FOLLOWS WATERLINE.
 - 8" DIP CENTERED IN CASING. USE RESTRAINED SPACERS PER 627-2.08.

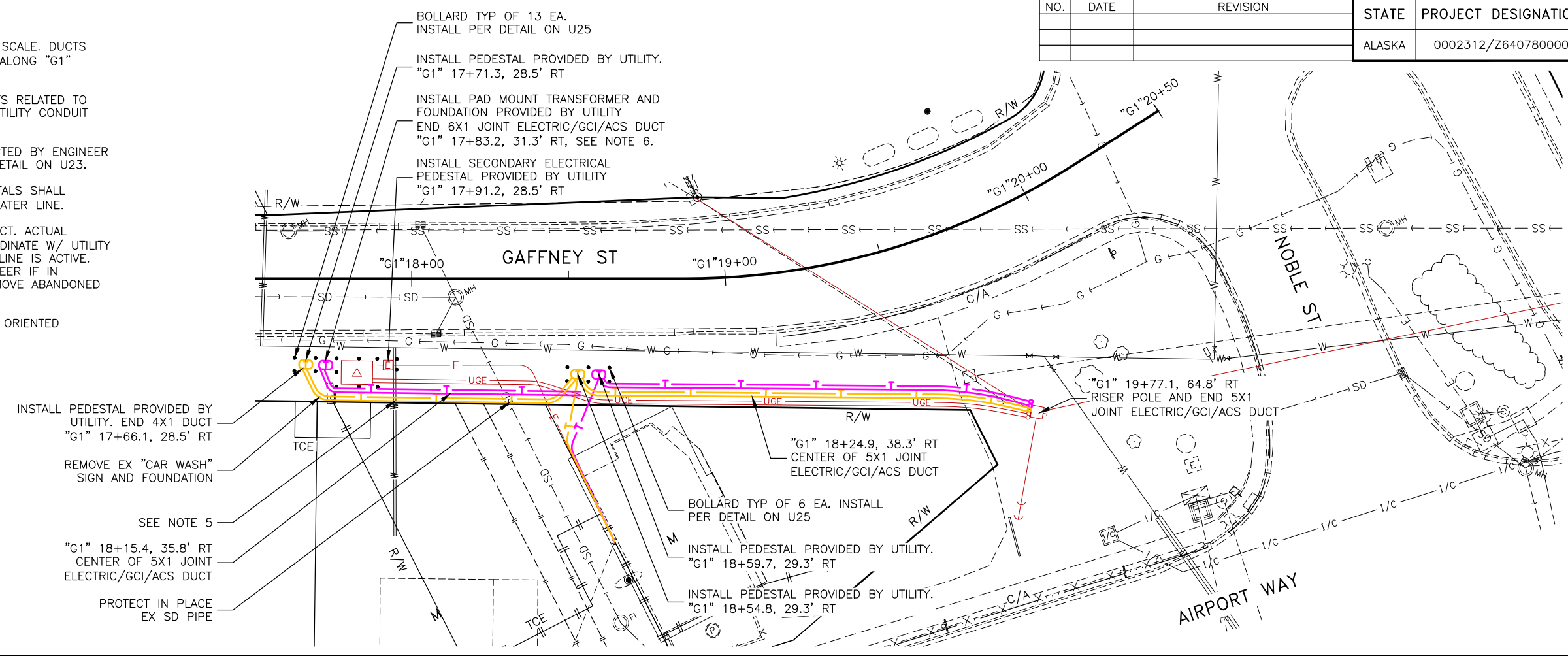
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FG 444.4	EG 444.4	FG 444.2	EG 444.2	FG 443.8	EG 443.8	FG 443.9	EG 443.9	FG 443.4	EG 443.4	FG 442.8	EG 442.8	FG 442.9	EG 442.9	FG 442.66	EG 442.5	FG 443.01	EG 443.1	FG 443.51	EG 443.6	FG 443.81	EG 443.7	FG 443.89	EG 443.7	FG 444.2	EG 444.2	FG 444.8	EG 444.8	FG 444.9	EG 444.9	FG 445.0	EG 445.0	FG 444.8	EG 444.8

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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 (Aaron Frinkler) KE#: 00385

NOTES:

1. SCHEMATIC LAYOUT DEPICTED. DO NOT SCALE. DUCTS RUNS SHALL BE INSTALLED AS NOTED ALONG "G1" ALIGNMENT IN SAME TRENCH.
2. STATION, OFFSET, AND RADIUS CALLOUTS RELATED TO DUCT GEOMETRY ARE TO CENTER OF UTILITY CONDUIT DUCTS.
3. ADJUST STATION AND OFFSET AS DIRECTED BY ENGINEER TO MEET REQUIREMENTS OF TRENCH DETAIL ON U23.
4. ALL DUCTS, FOUNDATIONS, AND PEDESTALS SHALL MAINTAIN 5' CLEARANCE TO EXISTING WATER LINE.
5. POTENTIAL WATER SERVICE LINE CONFLICT. ACTUAL LOCATION AND DEPTH UNKNOWN. COORDINATE W/ UTILITY THROUGH ENGINEER TO DETERMINE IF LINE IS ACTIVE. REROUTE DUCT AS DIRECTED BY ENGINEER IF IN CONFLICT IF WITH ACTIVE SERVICE. REMOVE ABANDONED LINE AS DIRECTED BY ENGINEER.
6. LONG EDGE OF FOUNDATION SHALL BE ORIENTED PARALLEL WITH EX CURB LINE.

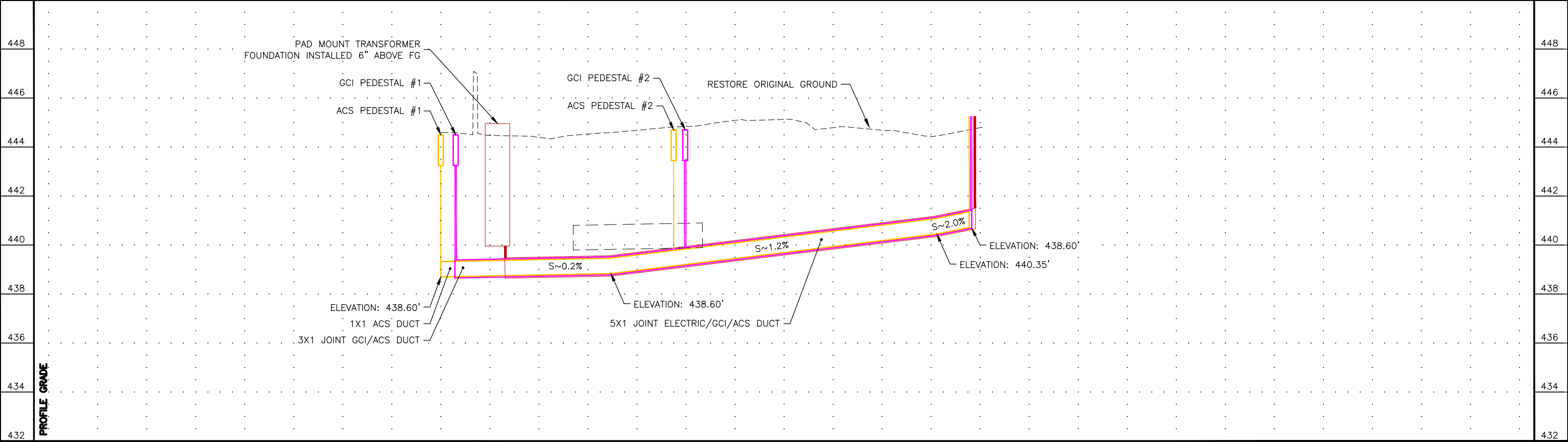
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	U24	U25



PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

**12/22/2022
REVIEW
PS&E**

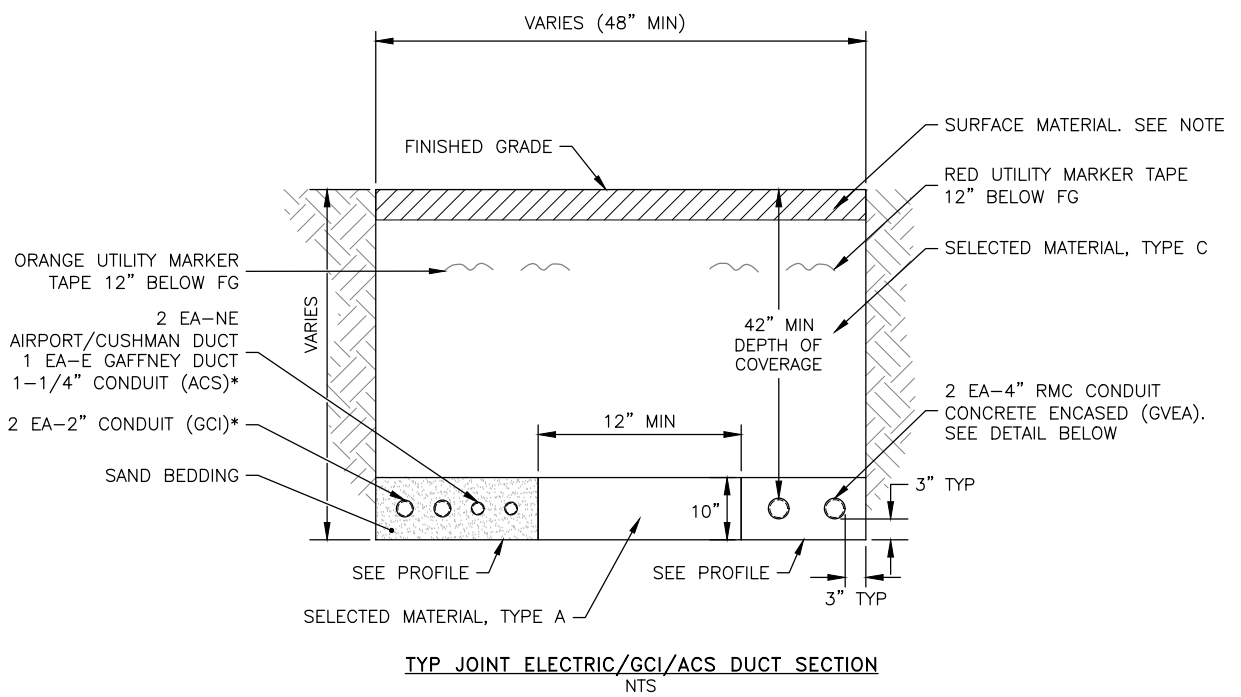
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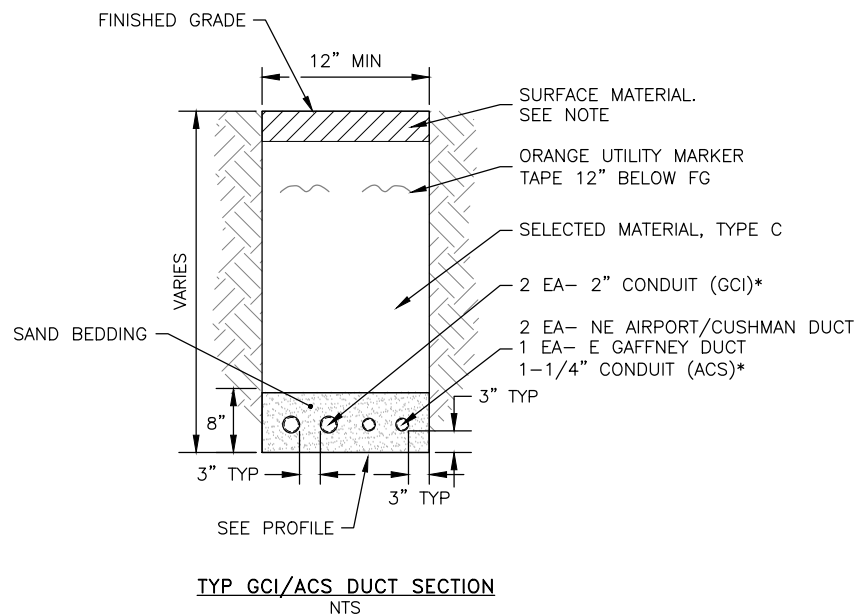
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PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102
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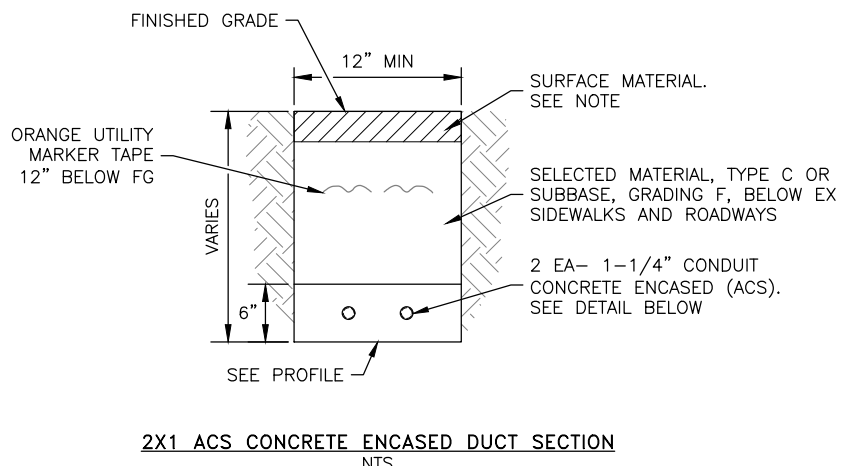
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	U25	U25



TYP JOINT ELECTRIC/GCI/ACS DUCT SECTION
NTS



TYP GCI/ACS DUCT SECTION
NTS

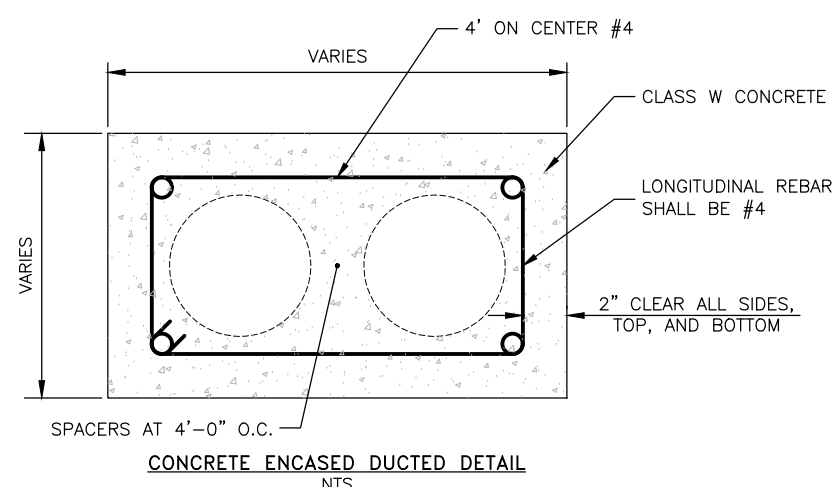


2X1 ACS CONCRETE ENCASED DUCT SECTION
NTS

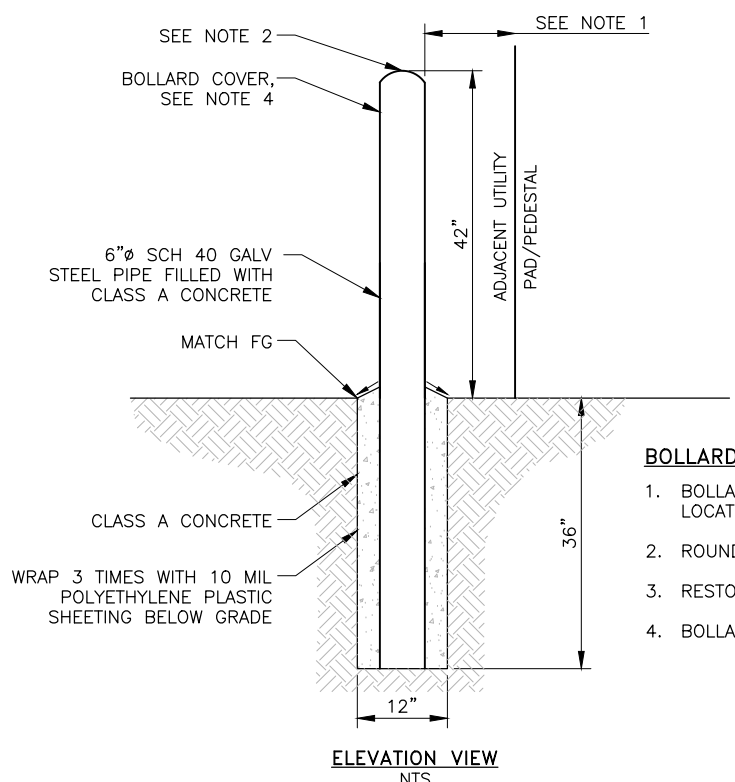
SURFACE MATERIAL NOTE:

IN GRAVEL PARKING LOT PLACE AND COMPACT 4" OF IMPORTED AGGREGATE SURFACE COURSE, GRADING E-1. IN EX ASPHALT PAVEMENT AREAS PLACE AND COMPACT 4" OF IMPORTED AGGREGATE BASE COURSE, GRADING D-1, AND 2" HMA, TYPE II; CLASS B. PLACE AND COMPACT 4" TOPSOIL, AND SEED, ALL OTHER DISTURBED AREAS.

* UTILITY CONDUIT PAIRS SHALL BE INSTALLED ON LT OR RT SIDE OF DUCT PER THE PLAN SCHEMATIC



CONCRETE ENCASED DUCTED DETAIL
NTS



ELEVATION VIEW
NTS

BOLLARD NOTES:

- BOLLARDS SHALL BE LOCATED PER UTILITY REQUIREMENTS. STAKE LOCATIONS FOR ENGINEER APPROVAL.
- ROUND CONCRETE SMOOTH AT TOP OF PIPE.
- RESTORE FINISHED SURFACE TO MATCH EXISTING.
- BOLLARD COVER SHALL HAVE YELLOW FINISH.

GENERAL DUCT NOTES:

- LINEWORK DEPICTING EXISTING SITE CONDITIONS IS BASED ON PLANEMETRIC INFORMATION, INCLUDING AERIAL IMAGERY, RECORD DRAWINGS, AND FIELD RECONNAISSANCE VISITS. IF A DIFFERING SITE CONDITION IS DISCOVERED, PROMPTLY NOTIFY THE ENGINEER IN WRITING IN ACCORDANCE WITH SECTION 104.
- PLANS SHOW THE APPROXIMATE LOCATIONS OF UTILITIES KNOWN TO EXIST WITHIN THE PROJECT AREA(S). LINEWORK DEPICTING EXISTING UTILITIES IS BASED ON AVAILABLE RECORD INFORMATION, INCLUDING AS-BUILTS AND UTILITY SYSTEM MAPS. UTILITY LOCATIONS AND DEPTHS MAY VARY FROM WHAT IS SHOWN ON THE PLANS, AND ADDITIONAL UTILITIES MAY EXIST THAT ARE NOT SHOWN.
- COORDINATE WITH UTILITY OWNERS TO LOCATE ALL UTILITIES WITHIN AN AREA OF WORK BEFORE EXCAVATION IN THAT AREA. SEE SECTION 105 FOR ADDITIONAL UTILITY WORK REQUIREMENTS.
- STAKE OR PAINT LOCATIONS FOR NEW EQUIPMENT, PROPOSED PAVEMENT CUTS, AND TRENCH ROUTING, AND OBTAIN ENGINEER APPROVAL BEFORE PROCEEDING.
- SAWCUT ALL MATCH POINTS WHERE NEW CONSTRUCTION ABUTS EXISTING PAVEMENT. EXISTING IN-PAVEMENT STRUCTURES, SUCH AS CATCH BASINS, MANHOLES, HYDRANTS, LIGHTS, SIGNS, ETC. ARE TO REMAIN IN PLACE UNLESS OTHERWISE INDICATED FOR REMOVAL.
- CONTRACTOR SHALL SCHEDULE ALL UTILITY OUTAGES TO TAKE PLACE DURING NON BUSINESS HOURS. ALL COSTS TO PROVIDE IT AND INSTALL TEMPORARY MEASURES ON EXISTING UTILITIES ARE SUBSIDIARY TO THE ASSOCIATED BID ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES THAT RESULT FROM OUTAGES BEYOND THE PRESCRIBED PERIOD.
- WORK IS REQUIRED UNDER EXISTING OVERHEAD CABLES. PROTECT EQUIPMENT AND PERSONNEL AS REQUIRED SUBSIDIARY TO 687.2000.0000 PAY ITEM.
- MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN ELECTRIC POWER AND TELECOMMUNICATION CONDUITS.
- MINIMUM DUCT SLOPE SHALL BE 0.2%. ADJUSTMENTS TO PROFILES PROVIDED SHALL BE APPROVED BY ENGINEER.
- INSTALL SECONDARY ELECTRICAL PEDESTAL PAD PER DETAILS OF GVEA ELECTRICAL SERVICE GUIDELINES FOR COMMERCIAL AND MULTI-RESIDENTIAL INSTALLATIONS.
- CONDUITS SHALL ENTER THE BOTTOM OF PEDESTALS AND SIDES OF VAULTS PER UTILITY REQUIREMENTS.
- INSTALL RMC LONG RADIUS SWEEPS AT ALL LOCATIONS WHERE CONDUITS ARE EXPOSED ABOVE THE GROUND SURFACE. JOIN RMC WITH HDPE CONDUIT WITH APPROVED COUPLINGS.
- SUPPORT EXISTING POWER POLES AS NECESSARY TO INSTALL DUCT BANK SYSTEM. DEFLECT DUCT BANK AROUND EXISTING POWER POLES AS REQUIRED. PAYMENT SUBSIDIARY TO 687.2000.0000 PAY ITEM.
- SEE ALSO SUPPLEMENTAL DOCUMENTS:
 - GVEA STAKING SHEETS
 - GCI ONE LINE PLANS
 - ACS RELOCATION PLANS

DUCT BANK DETAILS

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC

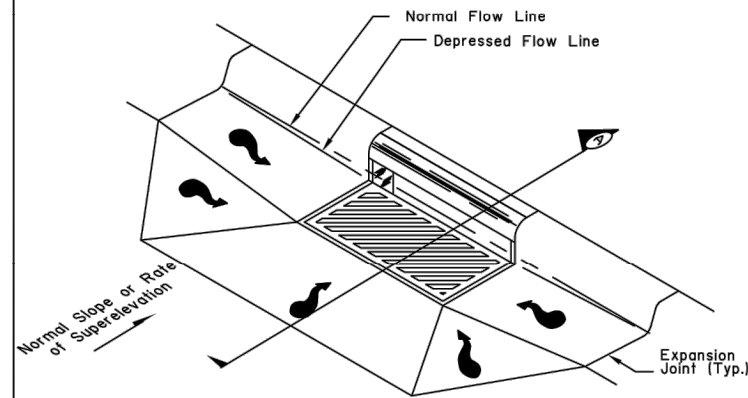
12/22/2022
REVIEW
PS&E

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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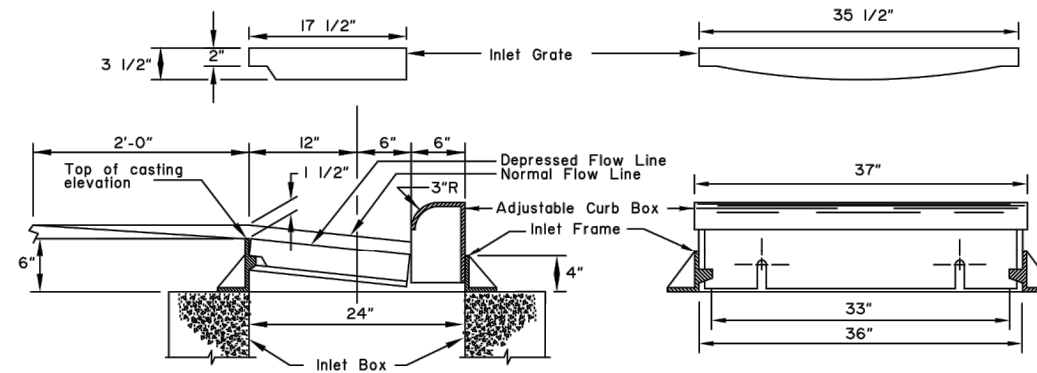
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GENERAL NOTES:

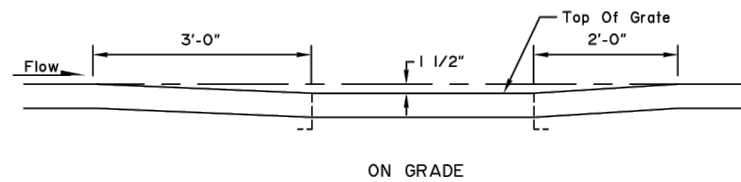
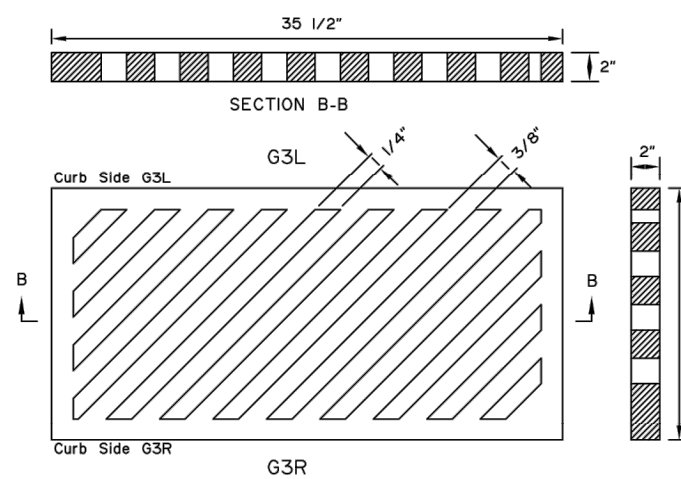
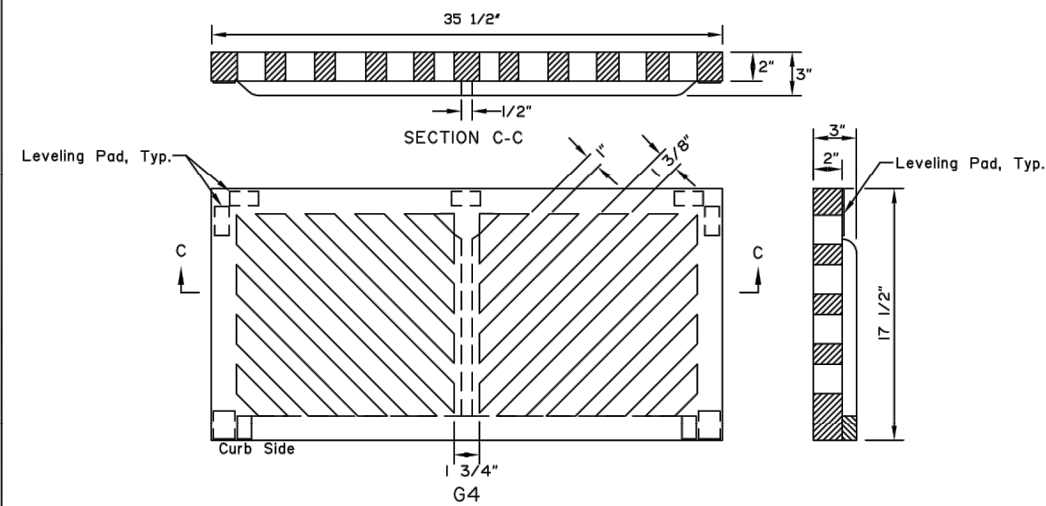
1. Details shown are to indicate general design only. Dimensions and design may vary among the manufacturers.
2. Minimum casting weight shall be 330 lbs for Curb Inlet Frame with Curb Box and 200 lbs. for Inlet Gate.
3. The outside dimensions of Inlet Gate shall be 35 1/2" x 17 1/2" and all grates shall be interchangeable.
4. Minimum drainage area of Inlet Gate shall be 255 square inches.
5. Inlet Gate 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.



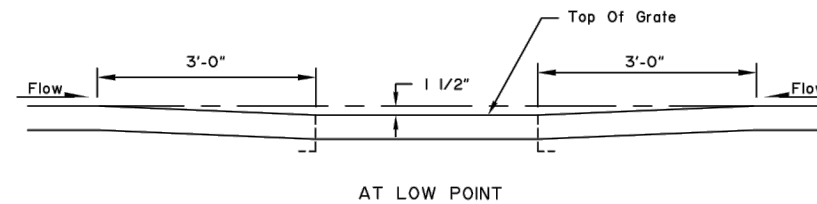
STANDARD CURB INLET INSTALLATION



SECTION A



ON GRADE



AT LOW POINT

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*
Kenneth J. Fisher, P.E.
Chief Engineer

Adoption Date: 02/08/2019

Last Code and Sids. Review
By: _____
Date: _____

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

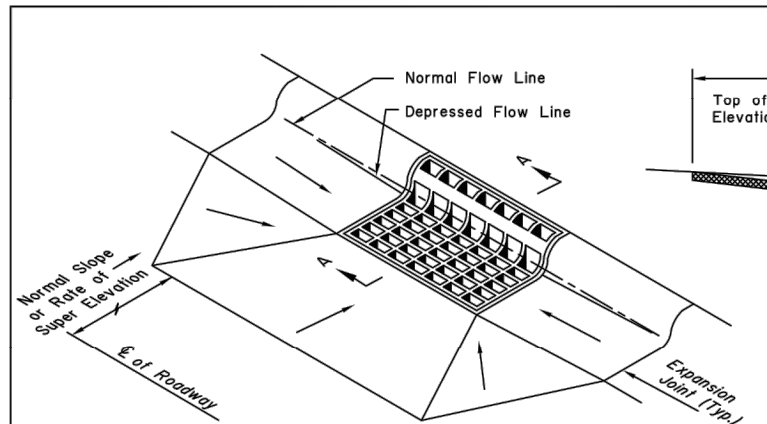
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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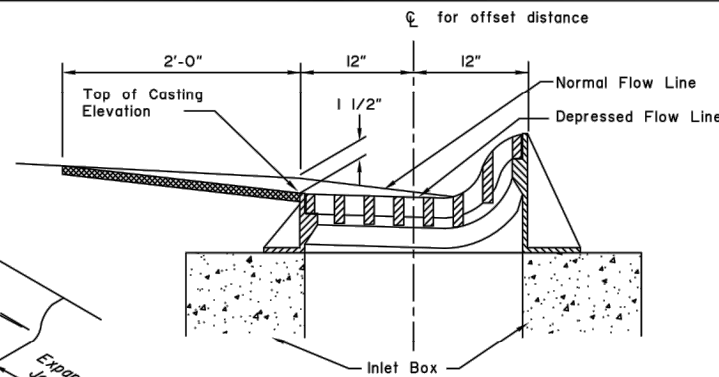
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GENERAL NOTES:

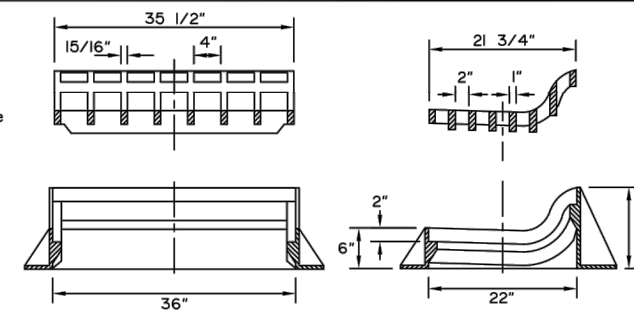
1. Details shown are to indicate general design only. Dimensions and design may vary among the manufacturers. Except inlet grate outside dimension shall be as shown on this drawing.
2. Minimum casting weight shall be 550lbs. for Curb Inlet Frame and Grate, 450lbs. for Gutter Inlet Frame and Grate, and 300lbs. for Field Inlet Frame and Grate.
3. Field Inlet Frame may be welded assembly of L 1 3/4"x1 3/4"x1/4" angle equivalent to ASTM A-36 steel.



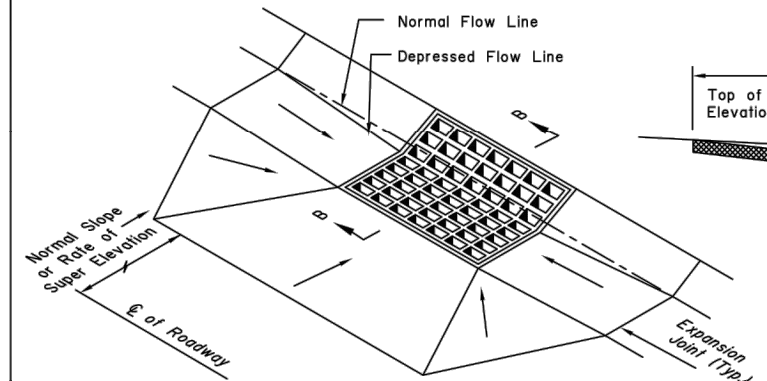
MOUNTABLE CURB INLET INSTALLATION



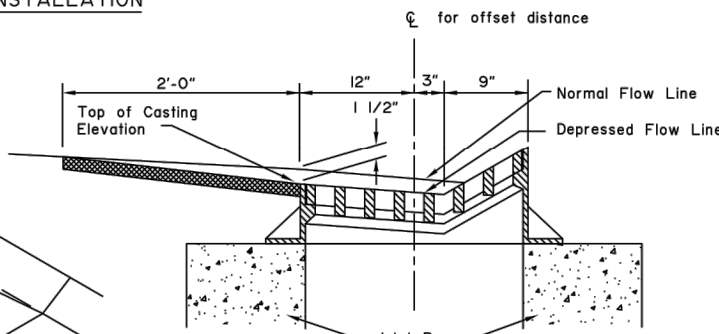
SECTION A-A



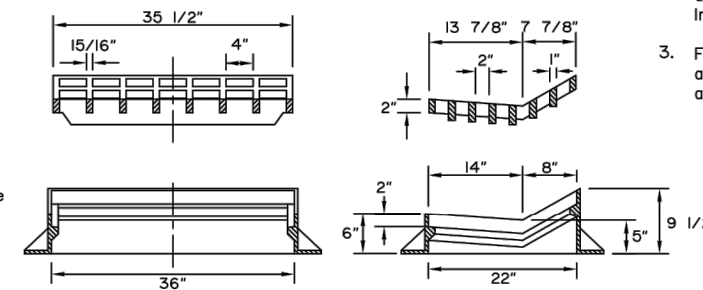
MOUNTABLE CURB INLET FRAME AND GRATE



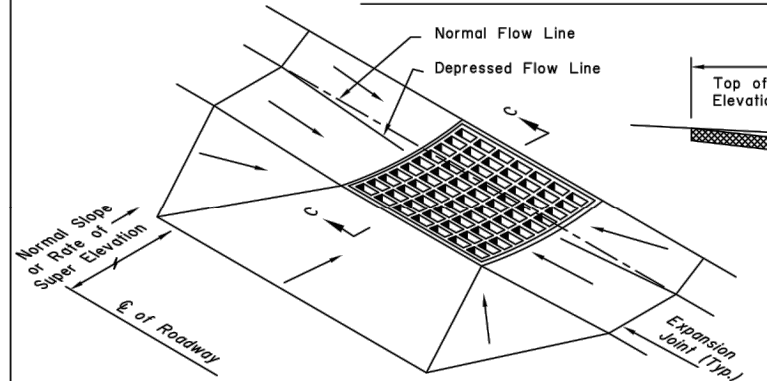
DEPRESSED CURB INLET INSTALLATION



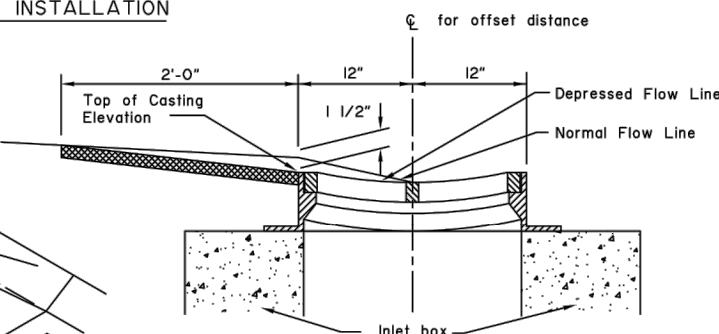
SECTION B-B



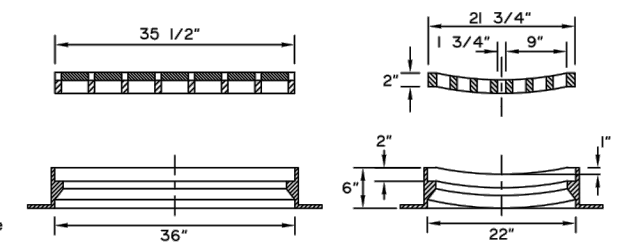
DEPRESSED CURB INLET FRAME AND GRATE



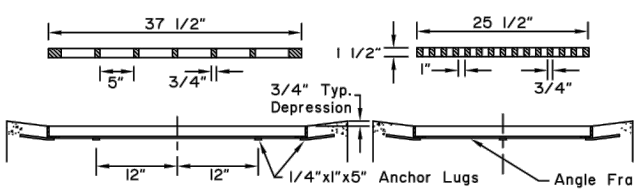
GUTTER INLET INSTALLATION



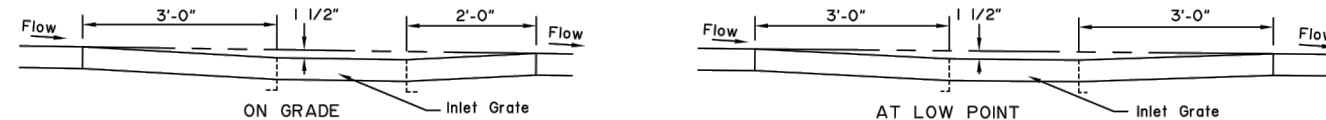
SECTION C-C



GUTTER INLET FRAME AND GRATE



FIELD INLET FRAME AND GRATE



DEPRESSION IN FLOW LINE AT INLET CONSTRUCTION DETAILS

State of Alaska DOT&PF
ALASKA STANDARD PLAN
INLET FRAMES AND GRATES

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

Adoption Date: 02/08/2019

Last Code and Sids. Review By: _____ Date: _____
Next Code and Standards Review date: 02/08/2029

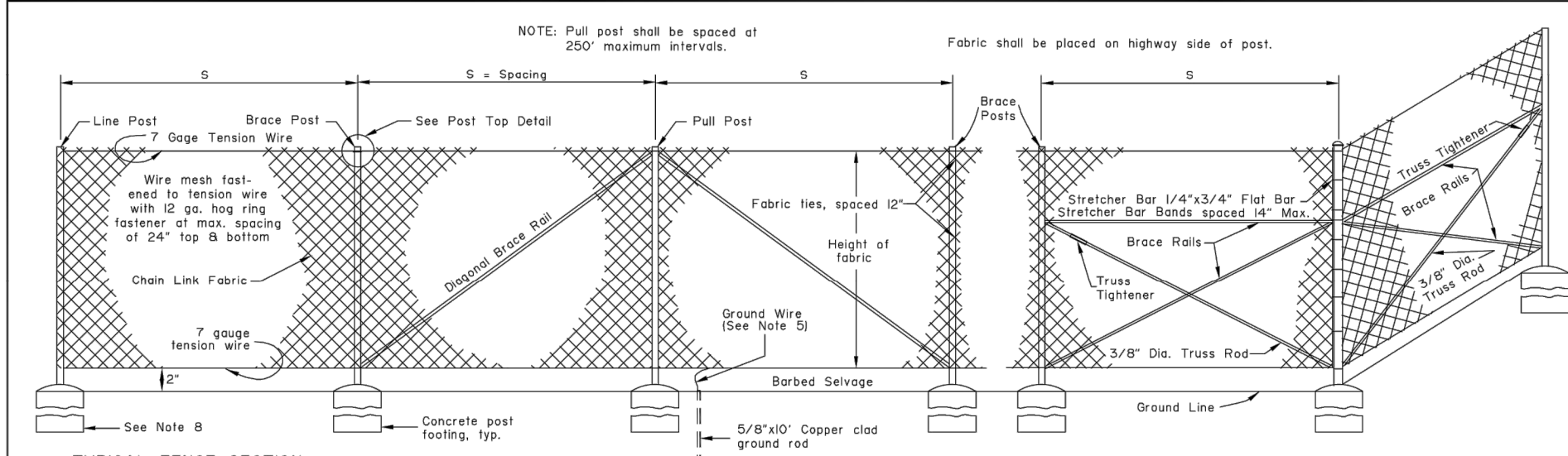
D-24.00

PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. 1102
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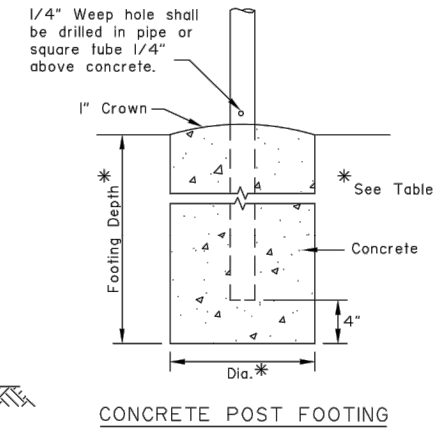
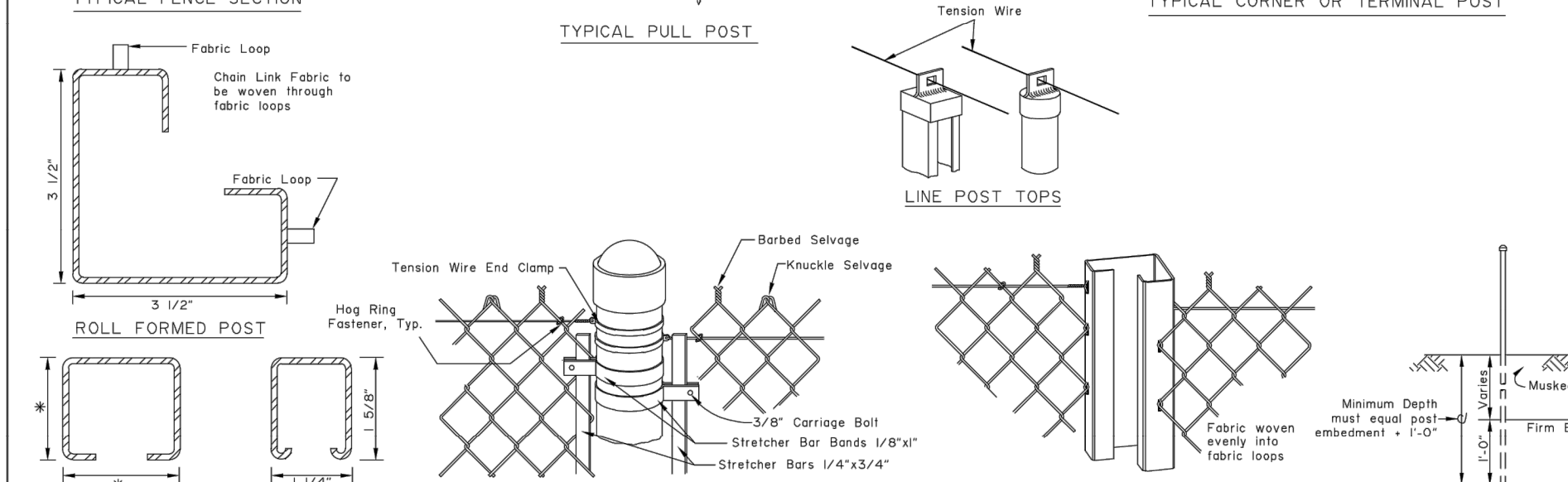
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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F-01.04

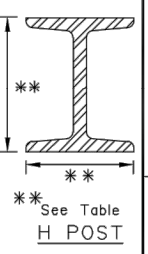
SHEET 1 of 1



- 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.



FABRIC HEIGHT	POST												TOP OR BRACE RAIL						ALTERNATE POST			
	END-CORNER-PULL						LINE-BRACE						PIPE		ROLL FORMED		H POST					
	PIPE SIZE	WT./FT.	SQUARE TUBE SIZE	WT./FT.	ROLL FORMED SIZE	WT./FT.	FOOTING DEPTH	DIA.	PIPE SIZE	WT./FT.	C POST SIZE	WT./FT.	FOOTING DEPTH	DIA.	PIPE SIZE	WT./FT.	ROLL FORMED SIZE	WT./FT.	H POST SIZE	WT./FT.	H POST 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 #



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

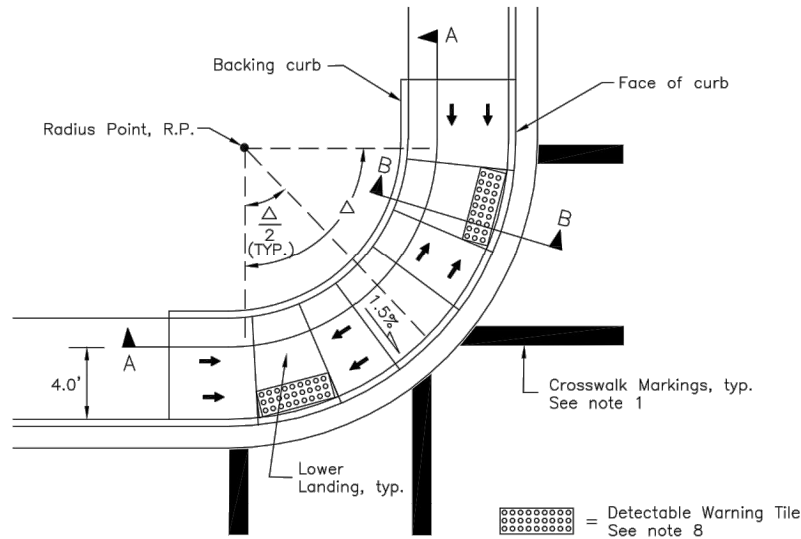
Last Code and Stds. Review By: KLH Date: 7/8/2020
Next Code and Standards Review date: 7/8/2030

F-01.04

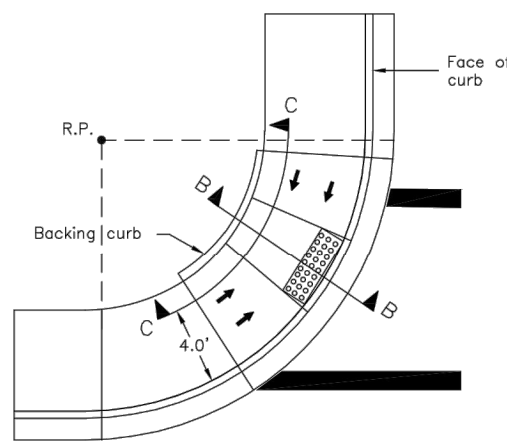
PLANS DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. 1102
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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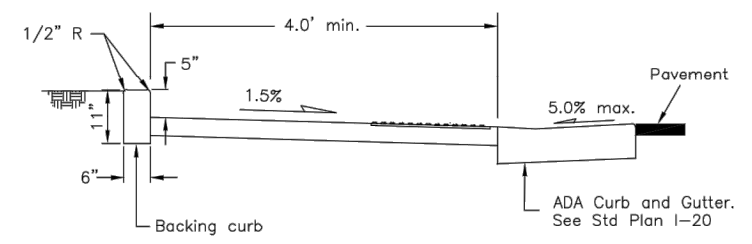
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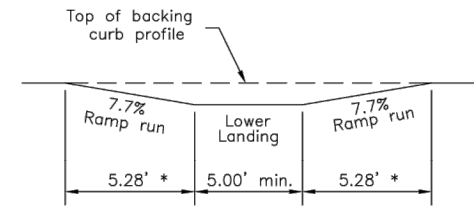
TWO CROSSING DIRECTIONS
At corner



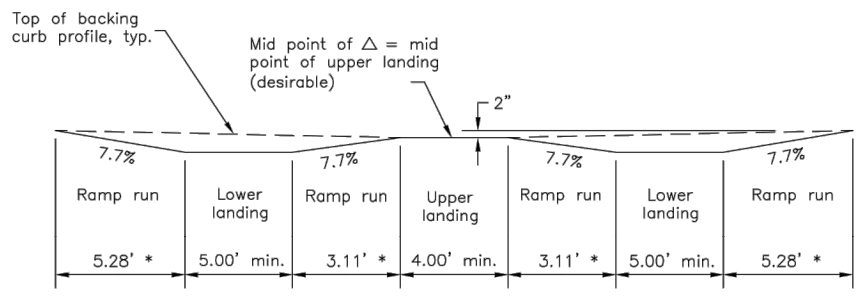
ONE CROSSING DIRECTION
At corner - generic location shown



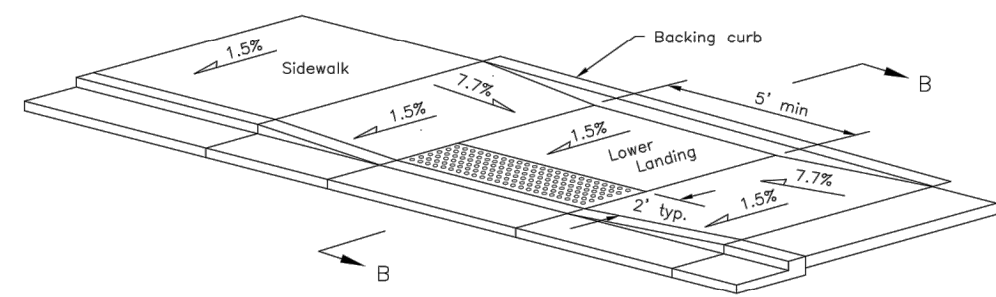
SECTION B-B



PROFILE C-C



PROFILE A-A



MID-BLOCK

Note: Drawing not to scale

- CONSTRUCTION NOTES:**
- See plans for ramp type at specific locations. See striping plans for crosswalk layouts.
 - Construct ramp runs and landings of concrete, regardless of whether the sidewalk is asphalt or concrete.
 - When one parallel curb ramp will serve two directions, use the One Crossing Direction detail and refer to the striping plans for crosswalk layouts.
 - 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.
 - 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%.
 - Construct sidewalk cross slopes at 1.5% nominal (1.0% min. and 2.0% max).
 - Provide a coarse broomed finish running perpendicular to the curb on ramp runs and upper landings and parallel to the curb on lower landings.
 - Install 24" detectable warning tiles meeting Section 705.1 of the 2006 ADA Standards for Transportation Facilities for the full width of the ramp.
 - 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.
 - 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: K.L.H. Date: 7/8/2020
Next Code and Standards Review date: 7/8/2030

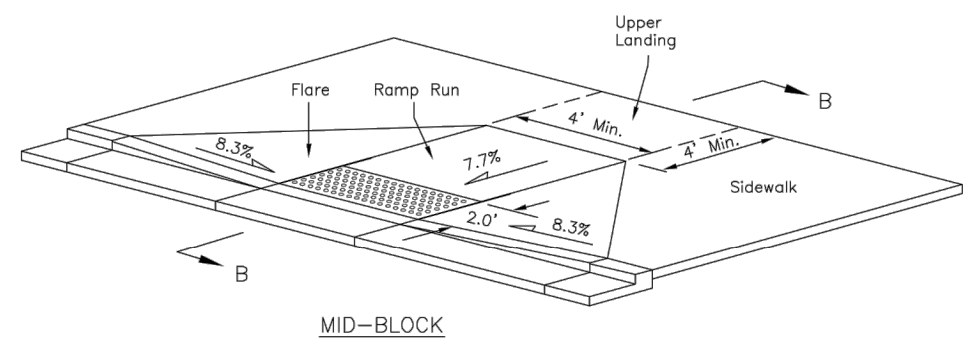
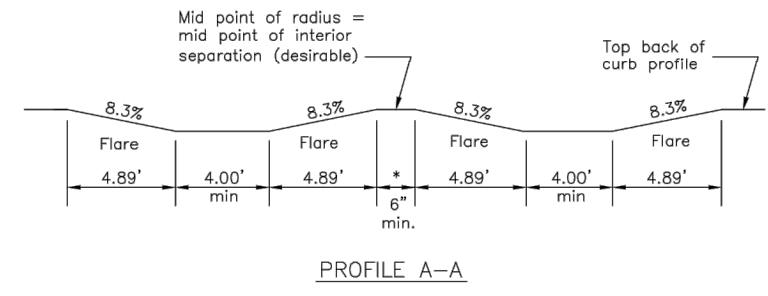
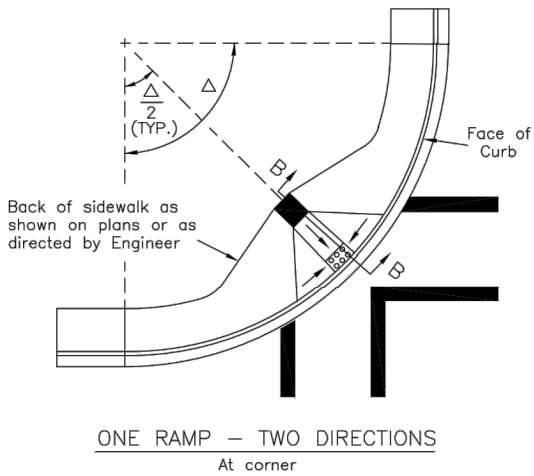
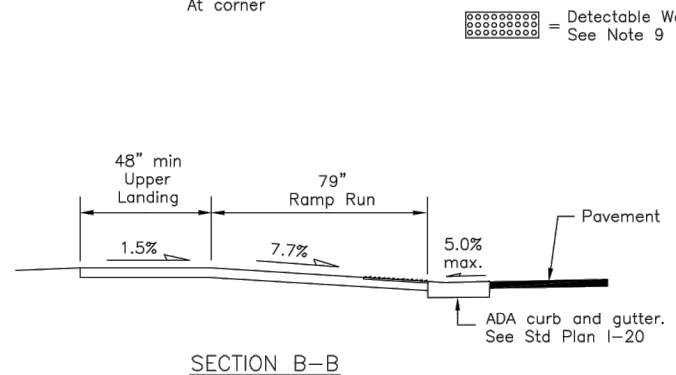
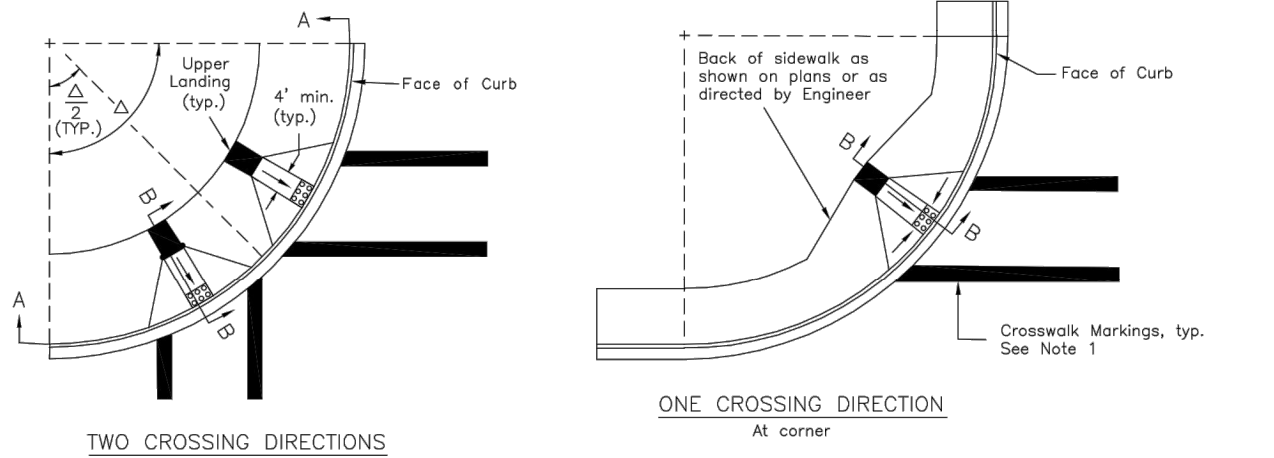
I-21.12

STANDARD PLAN I-21.12

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002312/Z640780000	2024	V5	V11

I-22.11 SHEET 1 of 1



CONSTRUCTION NOTES

- See plans for ramp type at specific locations. See striping plans for crosswalk layouts.
- Construct ramp runs perpendicular to the curb face.
- Construct ramp runs, flares, and upper landings of concrete, regardless of whether the sidewalk is asphalt or concrete.
- 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.
- 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%.
- 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%.
- Provide a coarse broomed finish running parallel to the curb on ramp runs and flares.
- 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.
- 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.
- 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.
- Provide 4" minimum thick concrete on ramps, flares and landings

Note: Drawing not to scale

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

STANDARD PLAN I-22.11

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			ALASKA	0002312/Z640780000	2024	V6	V11

48" TYPE I

SOLID DUCTILE IRON MANHOLE LID, 24 3/4" DIA. X 7/8".
SINGLE 3/4" DIAMETER PICK HOLE.
H-20 LOADING. WEIGHT: 150 LBS
EMBOSSED LETTERING: "STORM"
EJW NO. 2603 C3 DI OR APPROVED EQUAL

DEPRESS MANHOLE COVER 3/8" BELOW PAVEMENT SURFACE (TYP)

ADJUSTMENT RINGS OR MORTAR & BRICK (TYP)

3 LAYERS OF 6 MIL POLYETHYLENE SHEETING ALL AROUND (TYP)

CAST IRON FRAME WITH 31" OVER-ALL DIA. 23" CLEAR DIAMETER OPENING 10" DEEP INSET FLANGED FRAME MACHINED BEARING SURFACES; WEIGHT: 235 LBS. EJW NO. 2603Z OR APPROVED EQUAL

#3 REBAR OR 4/8, 4/9 WWF (TYP)

SEAL ALL AROUND WITH PREFORMED FLEXIBLE PLASTIC JOINT SEALANT (TYP ALL RISER JOINTS)

BASE & FIRST RISER SECTION SHALL BE CAST TOGETHER (TYP)

2" RIGID BOARD EXTRUDED POLYSTYRENE INSULATION ON BOTTOM AND 2" URETHANE ON SIDES. MANHOLE IS TO BE INSULATED (SEE NOTE 2)

12" SELECTED MATERIAL, TYPE A COMPACTED TO 95% OF PROCTOR DENSITY

ACCEPTABLE SUBGRADE COMPACTED AS DIRECTED BY THE ENGINEER

48" TYPE II

6" MINIMUM

25 1/2"

6" MIN 12" MAX

48" FOR 8"-24" PIPE DIA UNLESS OTHERWISE NOTED (TYP)

12" MIN TO INVERT

4" MINIMUM

BASE AND FIRST RISER SECTION SHALL BE CAST TOGETHER (TYP)

12" SELECTED MATERIAL, TYPE A COMPACTED TO 95% OF PROCTOR DENSITY

ACCEPTABLE SUBGRADE COMPACTED AS DIRECTED BY THE ENGINEER

72" TYPE I

8" MIN

3"

4" MINIMUM

6" MINIMUM

NON-SHRINK GROUT (TYP) WITH CORRUGATED PLASTIC PIPE(CPP) WATER STOP GASKETS.

12" MIN TO INVERT

3" TYP

10"

12" SELECTED MATERIAL, TYPE A COMPACTED TO 95% OF PROCTOR DENSITY

ACCEPTABLE SUBGRADE COMPACTED AS DIRECTED BY THE ENGINEER

72" TYPE II

8" MINIMUM

72" FOR 30"-48" PIPE DIAMETER UNLESS OTHERWISE NOTED (TYP)

12" MIN TO INVERT

NO. 4 BARS @ 6" OC EACH WAY

3" TYP

6" MINIMUM

12" SELECTED MATERIAL, TYPE A COMPACTED TO 95% OF PROCTOR DENSITY

ACCEPTABLE SUBGRADE COMPACTED AS DIRECTED BY THE ENGINEER

PIPE BEDDING DETAIL

BACKFILL WITH EXCAVATED MATERIAL BELOW SUBBASE

1.5' O.D. 1.5'

1.0'

0.5'

BEDDING SHALL BE SELECTED MATERIAL TYPE A COMPACTED TO 95% OF PROCTOR DENSITY. 100% OF THE MATERIAL SHALL PASS A 3" SIEVE.

ACCEPTABLE SUBGRADE COMPACTED AS DIRECTED BY THE ENGINEER

STORM DRAIN MANHOLE NOTES:

- OPENINGS IN MANHOLE TO RECEIVE PIPE SHALL BE 1" TO 2" LARGER THEN THE OD AND PIPE. LARGER OPENINGS SHALL BE FILLED AS DIRECTED BY THE ENGINEER. INSIDE GROUT SURFACE SHALL BE SMOOTH. PROVIDE CPP WATER STOP GASKETS.
- TYPICALLY, STORM DRAIN MANHOLES DO NOT REQUIRE INSULATION. HOWEVER, SPECIAL CASES REQUIRE INSULATION OF ALL OUTSIDE SURFACES. SEE PLANS.
- SEAL RISER JOINTS WITH FLEXIBLE PLASTIC JOINT SEALERS.
- MANHOLE STEPS SHALL BE APPROVED GALVANIZED STEEL OR PLASTIC AND MEET CURRENT OSHA STANDARDS.
- ALL GROUT SHALL BE NON-SHRINK. PROTECT GROUT DURING CURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED METHOD.
- REINFORCEMENT IN BASE, RISER, CONE, FLAT LID, AND ADJUSTING RINGS SHALL COMPLY WITH AASHTO SPECIFICATION M199/ASTM478.

MANHOLE REINFORCEMENT SCHEDULE

SECTION	MANHOLE SIZE		(SHALL COMPLY WITH AASHTO M 199 /ASTM 478)
	48"	72"	
FLAT BASE	0.39 SQ IN/FT EACH WAY	0.39 SQ IN/FT EACH WAY	*CIRCUMFERENTIAL REINFORCING ALL AREAS ARE MINIMUM CROSS-SECTIONAL AREA OF REINFORCEMENT PER FOOT OF SECTION.
RISER SECTION*	0.12 SQ IN/FT	0.18 SQ IN/FT	
CONE SECTION*	0.12 SQ IN/FT	0.18 SQ IN/FT	
FLAT LID**	0.12 SQ IN/FT EACH WAY	0.12 SQ IN/FT EACH WAY	
ADJUSTING RING	0.024 SQ IN	0.024 SQ IN	

**OPENINGS IN FLAT LIDS SHALL BE ADDITIONALLY REINFORCED WITH A MINIMUM OF THE EQUIVALENT OF 0.2 SQ IN OF STEEL AT 90'.

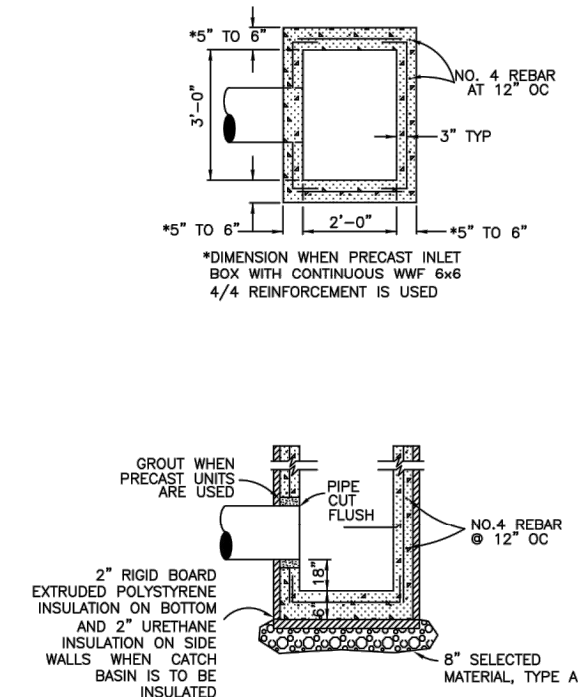
TYPICAL CONCRETE STORM DRAIN MANHOLES

NOT TO SCALE

3/13/17	WATER STOP GASKETS	RHP	NOT TO SCALE	DESIGNED:	CITY OF FAIRBANKS, ALASKA	STANDARD DETAILS		
2/3/10	NEW SD1	GSC,RHP		DRAWN: STAFF				
3/23/07		RHP		CHECKED: RHP,GSC			ENGINEERING DIVISION	STORM DRAIN MANHOLES, THAW TUBES AND BEDDING
DATE		BY		DATE: 3/23/07				

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REINFORCED CATCH BASIN (STANDARD)

*DIMENSION WHEN PRECAST INLET BOX WITH CONTINUOUS WWF 6x6 4/4 REINFORCEMENT IS USED

NO. 4 REBAR AT 12" OC

3" TYP

2'-0"

2" RIGID BOARD EXTRUDED POLYSTYRENE INSULATION ON BOTTOM AND 2" URETHANE INSULATION ON SIDE WALLS WHEN CATCH BASIN IS TO BE INSULATED

8" SELECTED MATERIAL, TYPE A

PIPE CUT FLUSH

GROUT WHEN PRECAST UNITS ARE USED

NO. 4 REBAR @ 12" OC

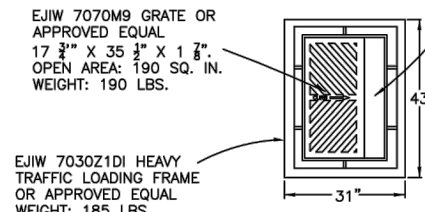
TYPICAL CURB INLET

EJIW 7070M9 GRATE OR APPROVED EQUAL
17 3/4" X 35 1/2" X 1 5/8"
OPEN AREA: 190 SQ. IN.
WEIGHT: 190 LBS.

EJIW 7030Z1DI HEAVY TRAFFIC LOADING FRAME OR APPROVED EQUAL
WEIGHT: 185 LBS.

EJIW 7030T4DI ADJUSTABLE HOOD WITH 6"-11" RANGE OR APPROVED EQUAL
5 7/8" X 37" X 13", 3" RADIUS
WEIGHT: 160 LBS.
EMBOSSED LETTERING:
"DUMP NO WASTE! DRAINS TO RIVERS"
WITH FISH IMAGE PERMANENTLY CAST INTO HOOD TOP.

EJIW 7030T3 BACK GRATE OR APPROVED EQUAL (WHEN INLET IS LOCATED IN CURB CUT DEPRESSED SECTION):
GRATE: 7" X 37 3/4" W/ 12" R
WEIGHT: 105 LBS.



31"

4 3/4"

GRADE POINT
TOP OF GRATE ELEVATION

1 1/2"

EJIW T4DI ADJUSTABLE HOOD

6"

4" MIN

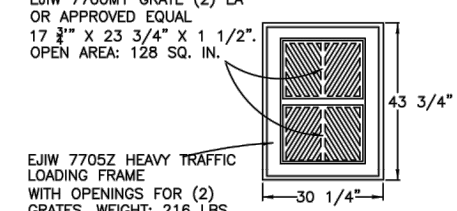
BRICK OR BLOCK SET IN GROUT, OR SET FRAME ON CONCRETE BED

FRAME WITH ADJUSTABLE HOOD FOR INSTALLATION IN CURB FACE

TYPICAL FIELD INLET

EJIW 7700M1 GRATE (2) EA OR APPROVED EQUAL
17 3/4" X 23 3/4" X 1 1/2"
OPEN AREA: 128 SQ. IN.

EJIW 7705Z HEAVY TRAFFIC LOADING FRAME WITH OPENINGS FOR (2) GRATES. WEIGHT: 216 LBS.
EMBOSSED LETTERING:
"DUMP NO POLLUTANTS"



43 3/4"

30 1/4"

GRADE POINT
TOP OF CASTING

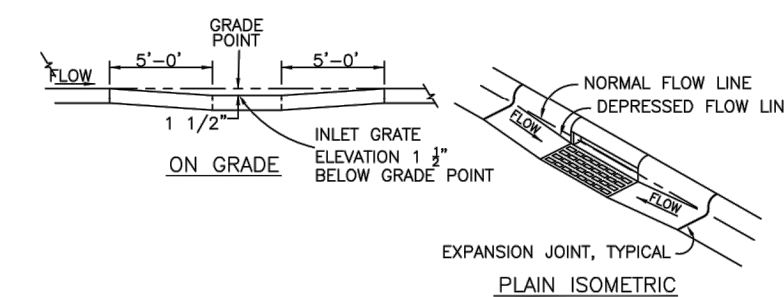
4" MIN

BRICK OR BLOCK SET IN GROUT

FRAME WITH DOUBLE OPENING

INLET BOX/CATCH BASIN DETAILS

NOT TO SCALE



5'-0"

GRADE POINT

5'-0"

1 1/2"

INLET GRATE ELEVATION 1 1/2" BELOW GRADE POINT

ON GRADE

NORMAL FLOW LINE

DEPRESSED FLOW LINE

EXPANSION JOINT, TYPICAL

PLAIN ISOMETRIC

DEPRESSION IN FLOW LINE AT INLET

CATCH BASIN NOTES:

1. THE WORDS "INLET" AND "CATCH BASIN" SHALL BE INTERCHANGEABLE.
2. ALL GROUT SHALL BE NON-SHRINK. PROTECT GROUT DURING CURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED METHOD.
3. TYPICALLY, CATCH BASINS ARE NOT INSULATED. HOWEVER, SPECIAL CASES REQUIRE INSULATION OF ALL OUTSIDE SURFACES. SEE PLAN NOTE TO INSULATE CB.
4. TYPICALLY, CATCH BASINS ARE NOT INSULATED. HOWEVER, SPECIAL CASES REQUIRE INSULATION OF ALL OUTSIDE SURFACES. SEE PLAN NOTE TO INSULATE CB.
5. GROUT THE INSIDE FACE OF ALL JOINTS SMOOTH.

DESIGNED:	
DRAWN:	STAFF
CHECKED:	RHP, GSC
DATE:	3/23/07

CITY OF FAIRBANKS, ALASKA
<i>ENGINEERING DIVISION</i>

STANDARD DETAILS
STORM DRAIN CATCH BASIN

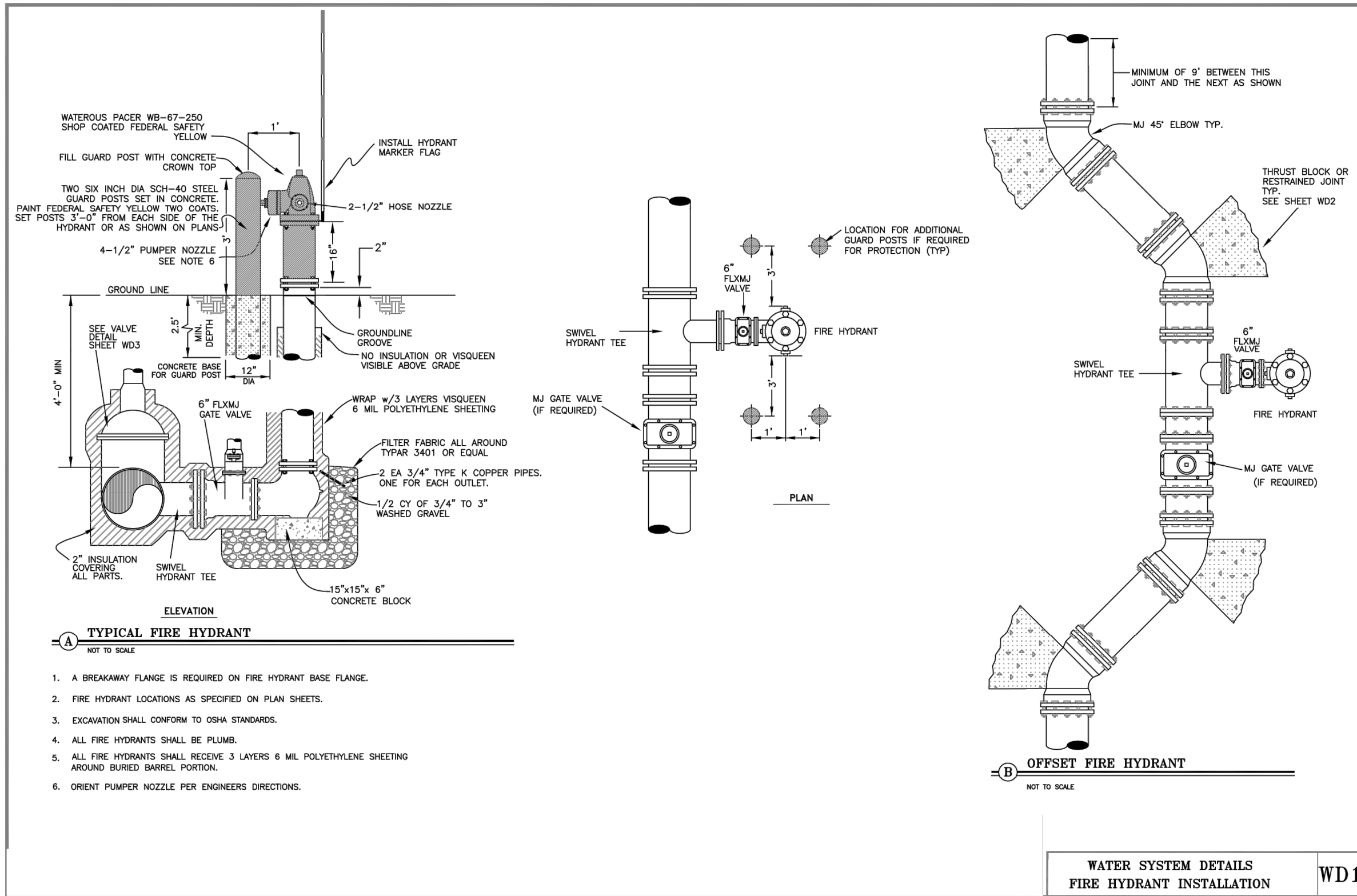
SD2

2/3/10	NEW SD2	GSC, RHP
3/23/07		RHP
DATE	REVISION	BY

NOT TO SCALE

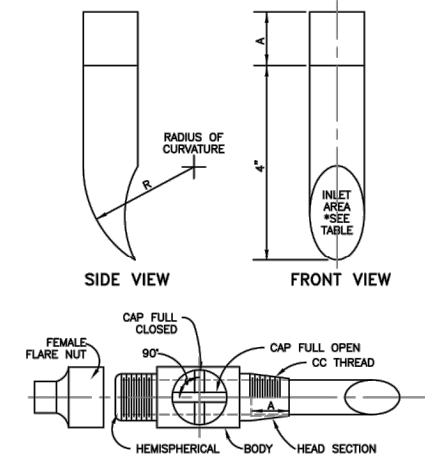
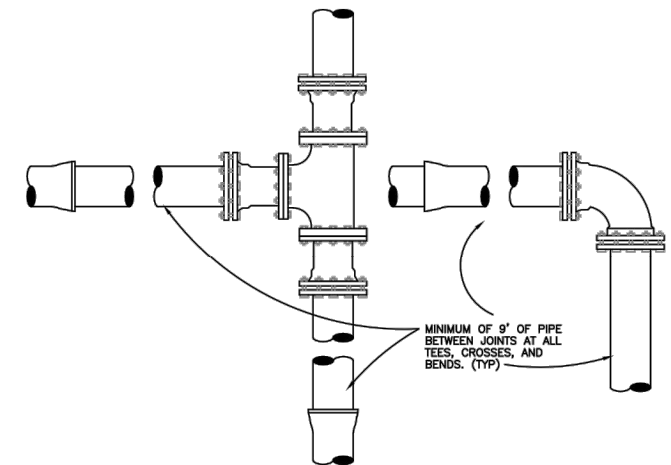
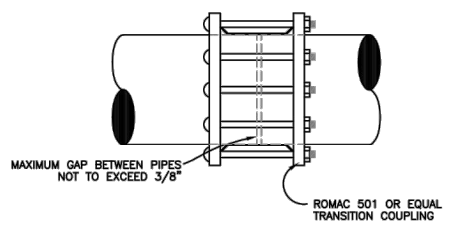
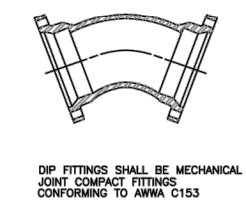
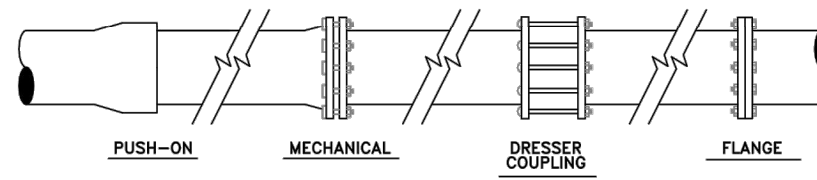
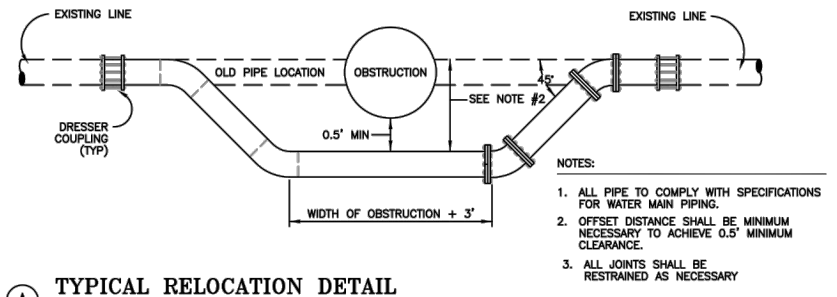
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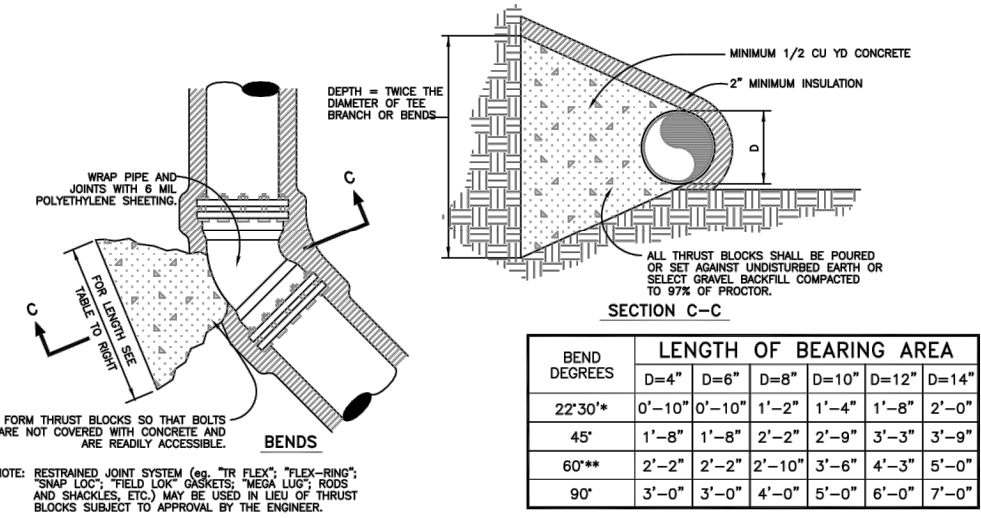


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			ALASKA	0002312/Z640780000	2024	V9	V11



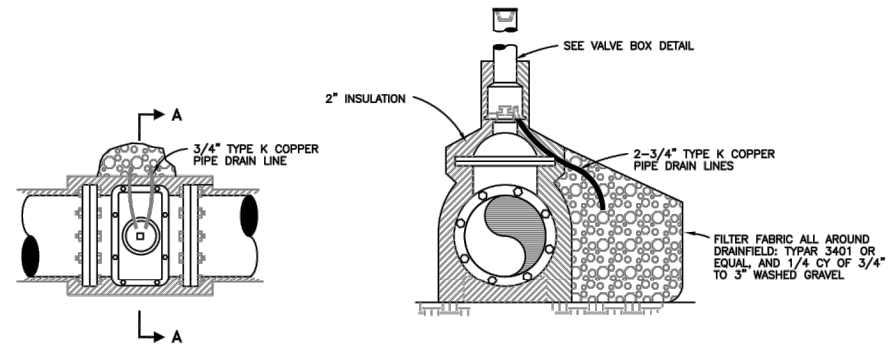
PITORIFICE BASIC DIMENSIONS			
NOMINAL SIZE	A (INCHES)	R (INCHES)	AREA INLET (IN ²)
3/4	.75	2	0.75
1	1	2.25	1.34
1 1/2	1.25	2.75	3.00
2	1.25 TO 1.5	3.25	5.4



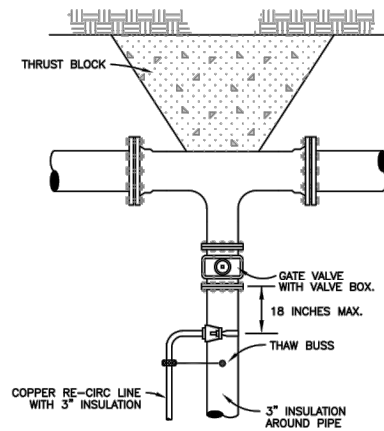
WATER SYSTEM DETAILS
PIPE, JOINTS, THRUST RESTRAINT **WD2**

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			ALASKA	0002312/Z640780000	2024	V10	V11

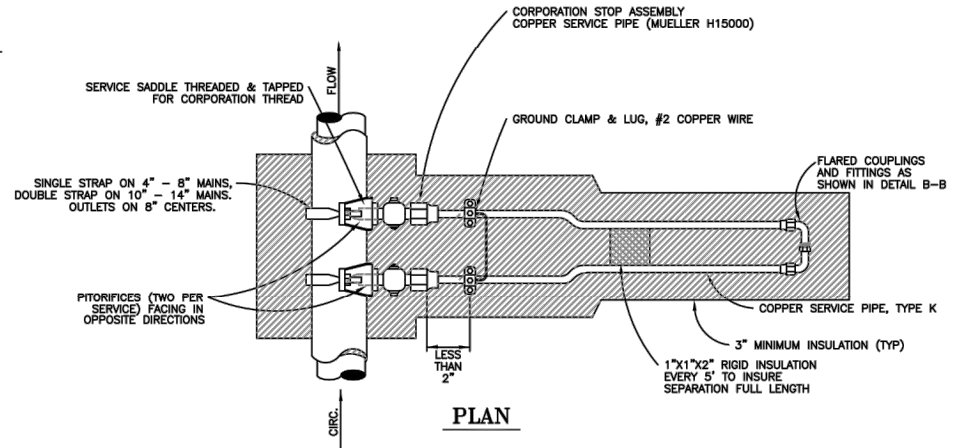


GATE VALVE

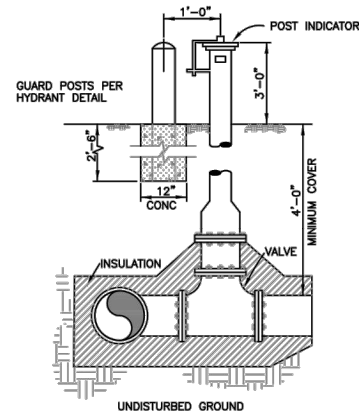


(B) FIRE SPRINKLER SERVICE

NOT TO SCALE
(CONTACT UTILITY FOR ALTERNATE DESIGNS)



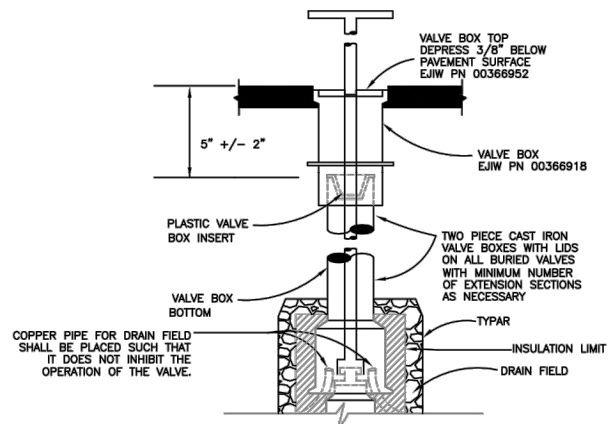
PLAN



POST INDICATOR VALVE INSTALLATION

(A) VALVES

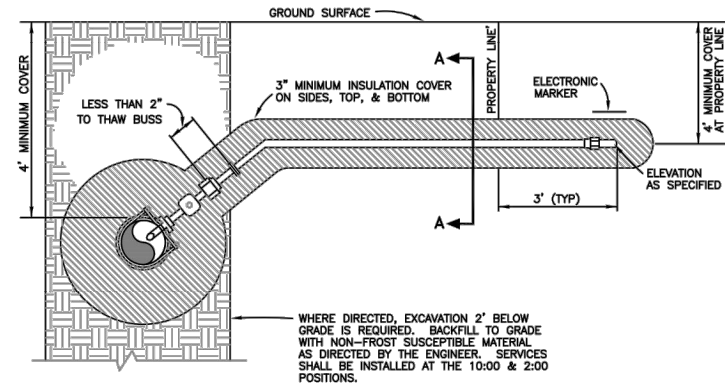
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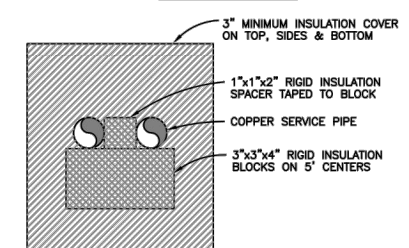
(C) VALVE BOX

NOT TO SCALE

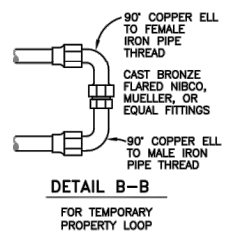
- NOTES:**
1. VALVE BOX ASSEMBLY SHALL BE GENERALLY PLUMB AFTER ROAD IS RESURFACED.
 2. FOR ACCEPTANCE, IT MUST BE POSSIBLE TO OPERATE A VALVE WITH THE KEY IN A VERTICAL POSITION WITHOUT INTERFERENCE FROM VALVE BOX BOTTOM, RISERS, OR CAN.
 3. FOR ACCEPTANCE, VALVE BOX TOP MUST SIT FLAT IN FRAME.
 4. FOR ACCEPTANCE, THE BOX ASSEMBLY MUST BE CLEARED OF DEBRIS (MUD, GRAVEL, ETC.)



ELEVATION



SECTION A-A



DETAIL B-B

(D) DOMESTIC WATER SERVICE

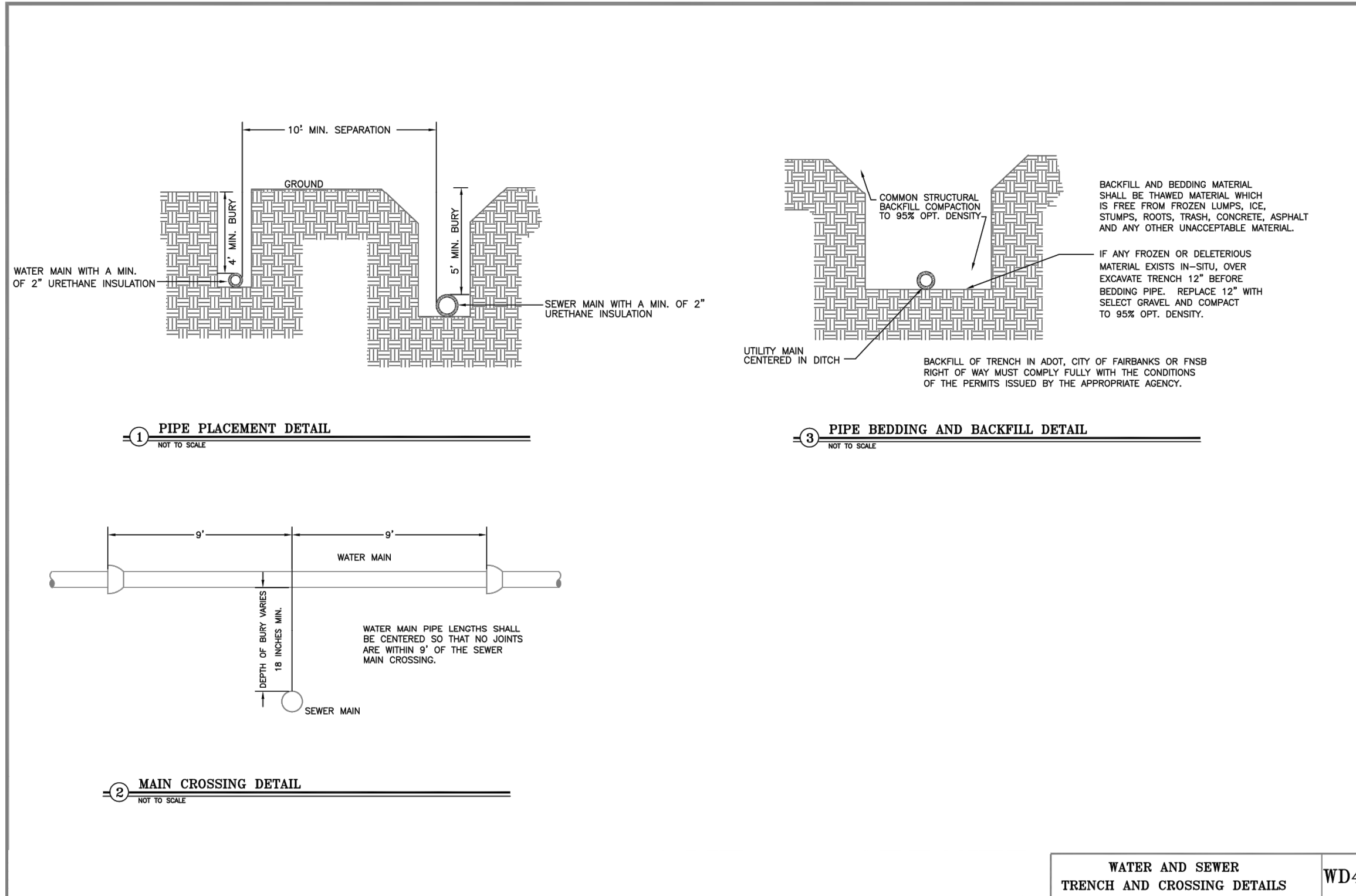
NOT TO SCALE

**WATER SYSTEM DETAILS
VALVES AND SERVICES**

WD3

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WATER AND SEWER
TRENCH AND CROSSING DETAILS
WD4

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