

State of Alaska

Department of Transportation and Public Facilities

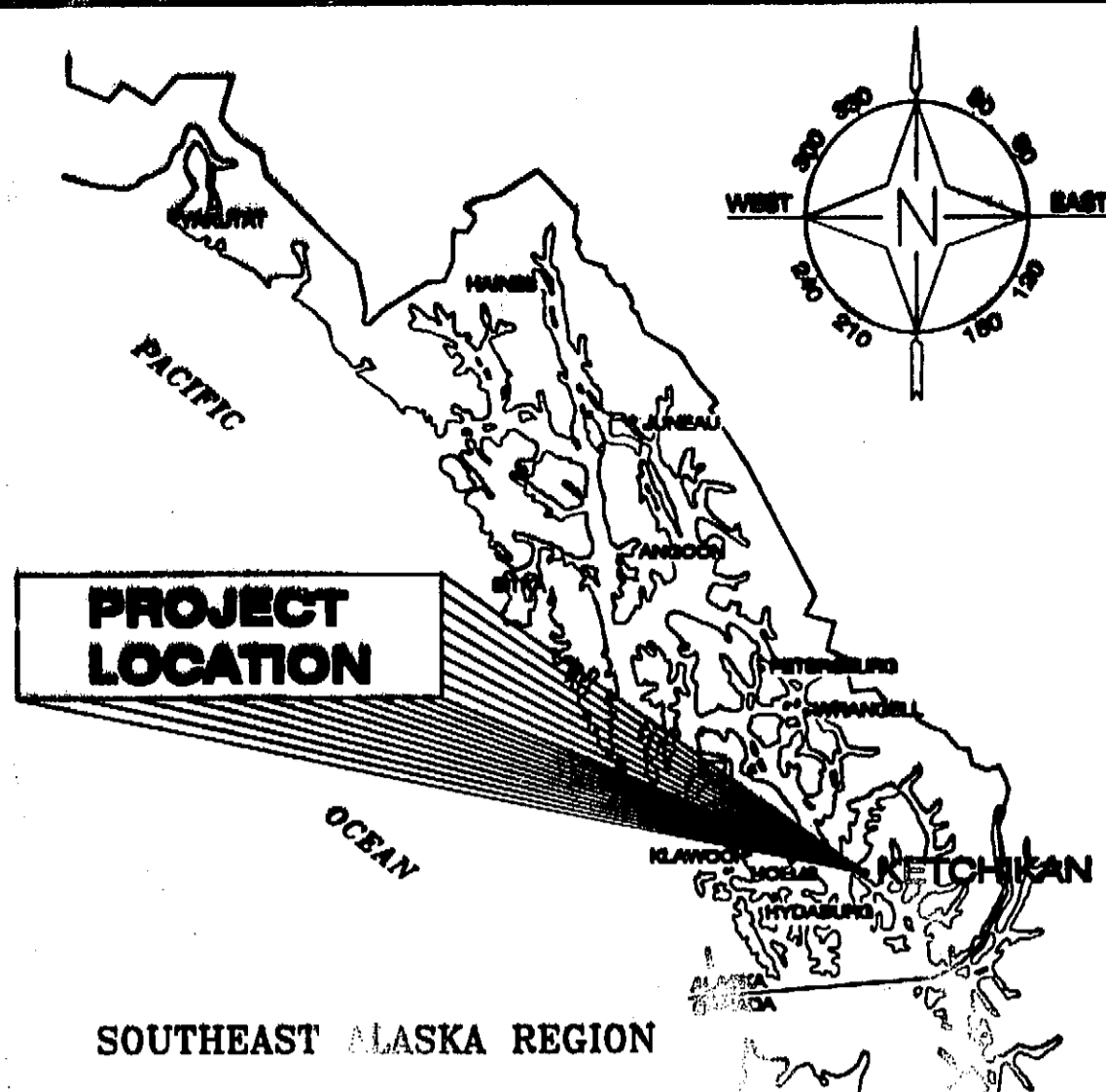
Statewide Design and Engineering Services Division

KETCHIKAN AIRPORT

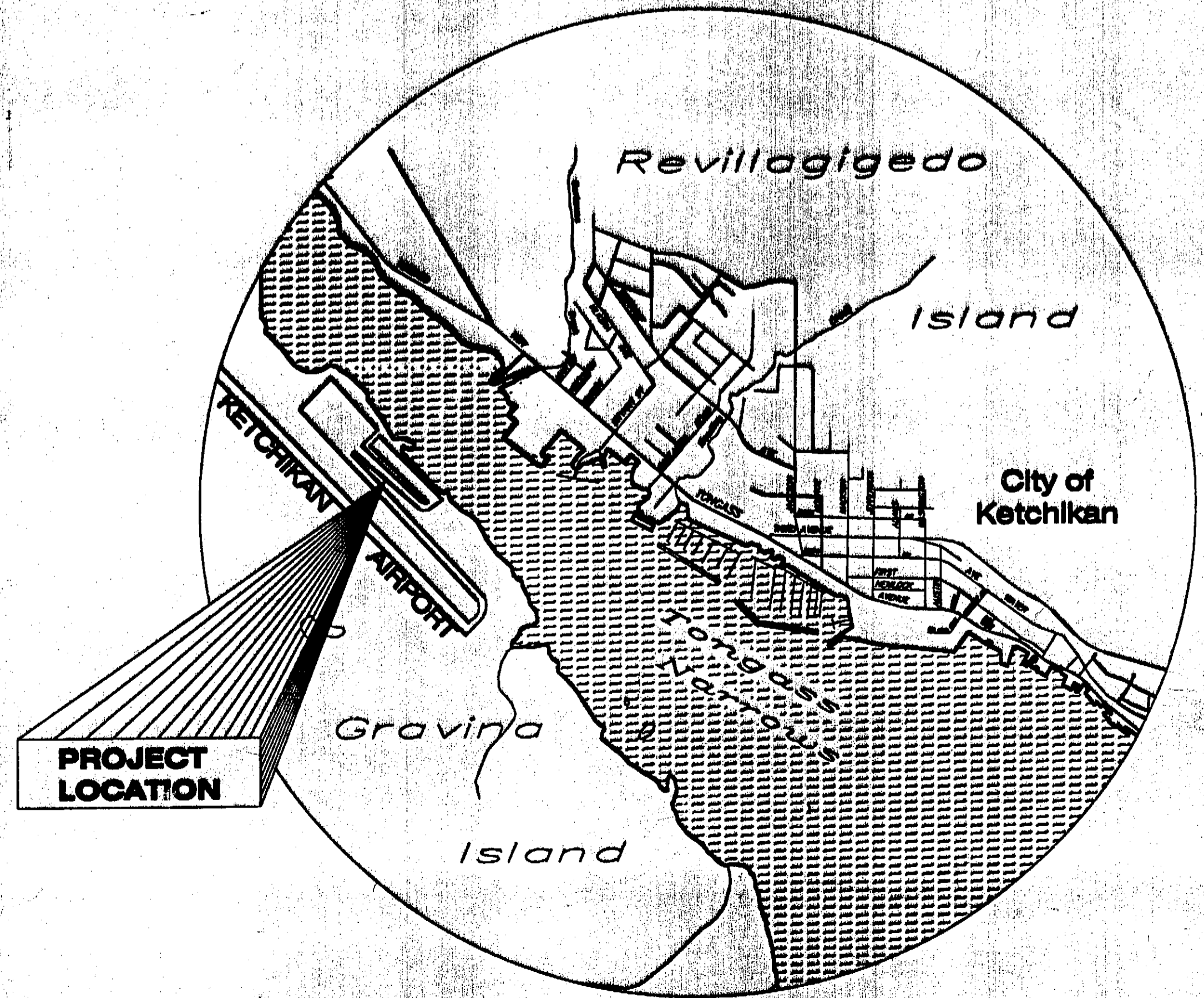
WEST TAXIWAY CONSTRUCTION

PROJECT No. 68035

AIP NO. 3-02-0144-1402



INDEX	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SURVEY DATA LAYOUT PLAN
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F1	MISCELLANEOUS DETAILS
F2	PAPI LAYOUT
F3-F5	TRANSITION DETAILS
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F9-F10	STRIPING PLAN & DETAILS
F11-F12	SEGMENTED CIRCLE LAYOUT & DETAILS
G1-G15	ELECTRICAL AND LIGHTING
H1	DRAINAGE PROFILES
H2	SPECIAL DITCH PLAN & PROFILE
H3-H4	MISCELLANEOUS DRAINAGE DETAILS
J1-J2	SAFETY PLAN & DETAILS
K1-K2	EROSION & SEDIMENT CONTROL PLANS
K3-K5	EROSION & SEDIMENT CONTROL DETAILS
	As built.
	Project Engineer: Mark Figley
	Contractor: Glacier State Contracting
	Start: Oct 19, 2002
	End: Oct 2004
	<i>M. Figley 8-18-05</i>



VICINITY MAP

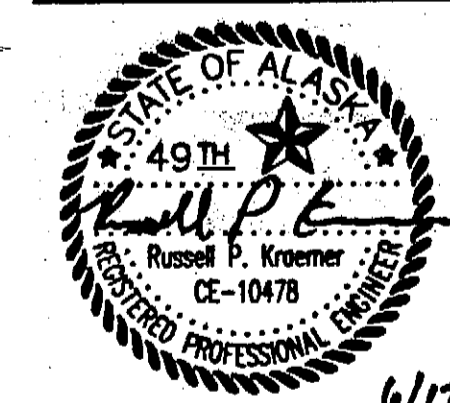
DESIGN DATA

AIRPORT TYPE.....	COMMERCIAL SERVICE
RUNWAY CATEGORY.....	TRANSPORT
RUNWAY INSTRUMENTATION.....	PRECISION
RUNWAY/TAXIWAY SURFACE.....	ASPHALT CONCRETE
RUNWAY LIGHTING.....	HIGH INTENSITY RUNWAY LIGHTING (HIRL)
TAXIWAY LIGHTING.....	MEDIUM INTENSITY TAXIWAY LIGHTING (MITL)
AIRPORT REFERENCE CODE.....	C-III
AIRPORT ELEVATION.....	88' (MSL) = 29.27m (MLLW)
AIRPORT REFERENCE POINT.....	Latitude N 55° 21' 19.95"
(ARP COORDINATES - NAD '83)	Longitude W 131° 42' 49.46"
TAXIWAY SAFETY AREA WIDTH.....	36 m
TAXIWAY OBJECT FREE AREA WIDTH.....	57 m
DESIGN AIRCRAFT.....	BOEING 737-900

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

- A-1[M]
- D-30.03[M]

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION



RECOMMENDED FOR APPROVAL:
[Signature] 6/17/02
 PATRICK J. KEMP REGIONAL PRE-CONSTRUCTION ENGINEER DATE 6/18/02

APPROVED:
[Signature] 6/18/02
 ROBERT BOLL DIRECTOR, SOUTHEAST REGION DATE 6/18/02

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:
 CONSTRUCTION PROJECT MANAGER DATE

PATH: Q:\Ktn\68035\Planset\A1_Tsht.dwg
Fri, 14/Jun/02 02:48PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	AIP NO. 3-02-0144-1402	2002	A1	48



BEGIN PROJECT
 STA. "TW" 0+780.500=
 STA. "RW" 3+901.975,
 OFFSET=23.260m LT.
 N = 3695.692
 E = 5049.582

BASIS OF CONTROL

HORIZONTAL CONTROL:

THE BASIS OF BEARING IS THE BEARING OF N 44°22'27" W BETWEEN THE RUNWAY CENTERLINE MONUMENT AT ENGLISH STATION 195+00 (POINT #10) AND THE RUNWAY CENTERLINE MONUMENT AT ENGLISH STATION 120+00 (POINT #11). THE BASIS OF COORDINATES IS POINT #10, RUNWAY CENTERLINE MONUMENT AT ENGLISH STATION 195+00 WITH ENGLISH COORDINATES OF NORTH 7283.6735', EAST 21196.6540'. THIS POSITION WAS ESTABLISHED BY GPS, THE STATE PLANE ENGLISH GRID COORDINATES FOR THIS POSITION IS NORTH 1,289,304.4108', EAST 3,094,998.1544'. CONVERGENCE ANGLE IS +1'39" 06.2300". GRID SCALE FACTOR IS 0.99989667, CONVERSION TO METRIC IS BASED ON 1200 METERS = 3937 US SURVEY FEET.

VERTICAL CONTROL:

THE BASIS OF VERTICAL CONTROL IS THE POINT NUMBER 7, A HIGHWAY CENTERLINE MONUMENT (PT 234+98.89') LOCATED ON THE AIRPORT FRONTAGE ROAD. THE MONUMENT HAS AN ACCEPTED ELEVATION OF 13.239m ABOVE MLLW. THIS ELEVATION WAS ESTABLISHED FROM A SERIES OF TIDAL OBSERVATIONS ON 10/29/86 AND 10/30/86. THE VERTICAL CONTROL WAS CHECKED WITH REAL TIME KINEMATIC GPS ON 5/18/00. THE BASIS OF THE VERTICAL DATUM CHECK WAS KETCHIKAN TIDAL BENCHMARKS "BM NO-34 1944" AND "BM NO-37 1956". THE RESULTS OF THE VERTICAL CONTROL CHECK WERE HEIGHT OBSERVATIONS OF 15.033m (PUBLISHED 15.033m) AT BM "NO-34" AND 10.651m (PUBLISHED 10.696m) AT BM "NO-37". THE PUBLISHED ELEVATIONS TO THE TIDAL BENCHMARKS ARE BASED ON 1960 - 1978 TIDAL OBSERVATIONS.

NOTE:

WHETHER LISTED OR NOT, ALL MONUMENTS, PROPERTY MARKERS AND ACCESSORIES WHICH WILL BE DISTURBED OR BURIED SHALL BE REFERENCED PRIOR TO BEING DISTURBED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION AND A COMPLETED RECORD OF MONUMENT FORM SHALL BE SUBMITTED TO THE CONSTRUCTION ENGINEER.

END PROJECT
 STA. "TW" 1+740.000
 N = 3146.356
 E = 5754.978

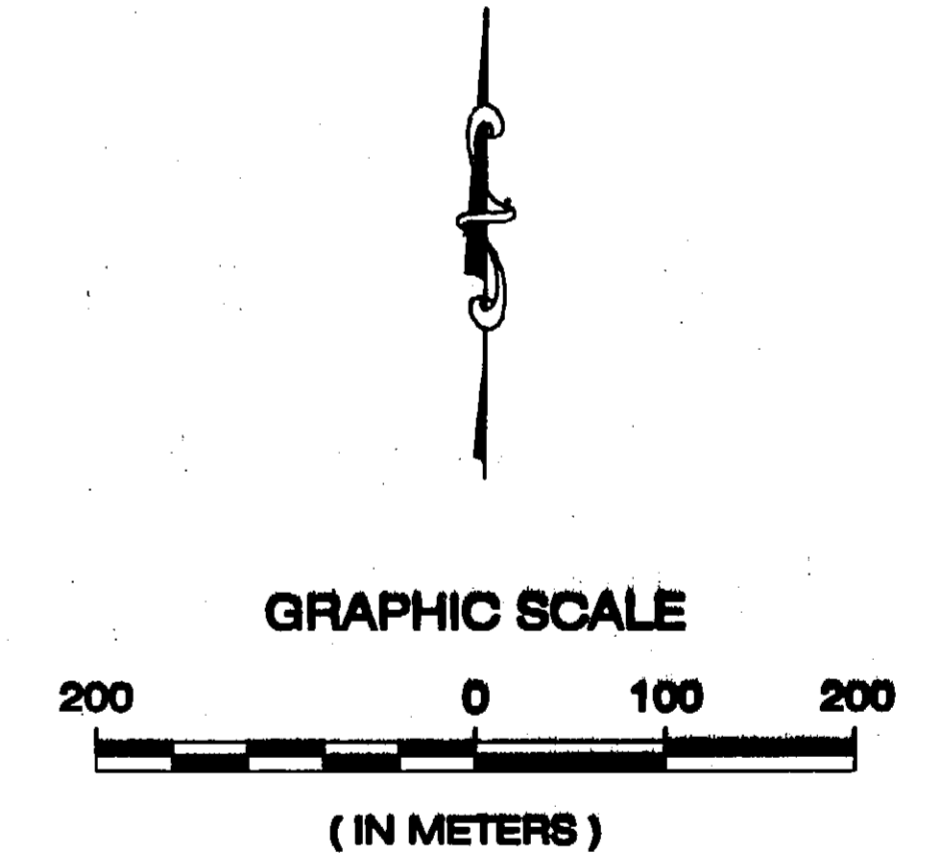
LEGEND



PROJECT CONTROL

POINT	NORTH	EAST	ELEVATION	DESCRIPTION
7	3245.6544	5902.6891	13.239	P.T. 234+94.89
8	3048.0061	6096.0122	13.899	P.I. 8
9	2961.326	6141.9749	10.292	P.I. 9 C/L BC
10	2220.0681	6460.7531	28.311	RNWX C/L BC 195+00
11	3854.0963	4862.0391	26.097	RNWX C/L BC 120+00
12	2455.7412	6495.5222	24.617	DMA BC MON 102+47
13	3082.8798	5817.0822	13.911	BC C/L MON 60+00

DESCRIPTION	STATION	NORTHING	EASTING	BEARING	DISTANCE	RADIUS	LENGTH	DELTA
"RW" ALIGNMENT								
POT	3+857.607	3854.096	4862.039	S 44° 22' 27" E	2286.030			
POT	5+943.637	2220.068	6460.753					
"TW" ALIGNMENT								
"RW" 3+901.975 OFFSET 0.000 LT=								
PI	"TW" 0+757.240	3679.425	5032.936	N 45° 37' 33" E	61.548			
PC	0+818.788	3722.468	5076.929			61.000 RT	93.423	87° 45' 00"
CC		3678.866	5119.589					
PT	0+812.211	3723.204	5161.483	S 46° 37' 27" E	530.046			
PI	1+442.257	3359.179	5546.754	S 44° 22' 27" E	386.547			2' 15" 00"
POT	1+828.804	3082.880	5817.082					
SPECIAL DITCH "SDG1" ALIGNMENT								
"RW" 4+145.826 OFFSET 190.634 LT=								
POT	"SDG1" 1+000	3638.441	5339.734	S 43° 53' 13" E	223.358			
PI	1+223.358	3477.465	5494.573	S 44° 44' 43" E	336.642			0' 51" 30"
POT	1+560.000	3238.367	5731.555					
SPECIAL DITCH "SDG2" ALIGNMENT								
"RW" 3+946.614 OFFSET 71.691 LT=								
PC	"SDG2" 3+000	3697.654	5115.398			19.250 RT	18.798	55° 57' 02"
CC		3678.866	5119.589					
PT	3+018.798	3692.858	5132.809	S 46° 37' 27" E	0.832			
PI	3+019.630	3692.286	5133.414	S 51° 28' 37" E	44.328			4' 51" 10"
PI	3+063.958	3664.677	5168.095	S 46° 37' 27" E	484.298			4' 51" 10"
PI	3+548.257	3332.071	5520.114	S 44° 22' 27" E	291.291			2' 15" 00"
PI	3+839.548	3123.859	5723.826	S 29° 09' 52" E	26.366			15' 12' 34"
POT	3+865.914	3100.836	5736.674					
ALIGNMENT								
"RW" 4+150.000 OFFSET 12.971 RT=								
POT	"Q" 4+150.000	3444.114	5147.083	S 44° 22' 27" E	600.000			
POT	4+800.000	2979.502	5601.654					



PATH:
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 Tue, 18/Jun/02 09:40AM Michael Limbaugh
 PLOT:
 PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS
 DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035
 Survey Data
 Layout Plan**

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
A2	48

Survey Data Layout Plan

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

MAJOR CONSTRUCTION COMPONENTS

- ① CONSTRUCT TAXIWAY.
- ② EXTEND RUNWAY 11/29 SAFETY AREA.
- ③ INSTALL ACCESS CONTROL FENCING.
- ④ INSTALL TAXIWAY LIGHTING (MITL).
- ⑤ INSTALL AIRPORT GUIDANCE SIGNS.
- ⑥ INSTALL RUNWAY 11 VISUAL GUIDANCE SYSTEM (PAPI).
- ⑦ INSTALL NEW SEGMENTED CIRCLE.
- ⑧ REMOVE DRAVO BUILDING

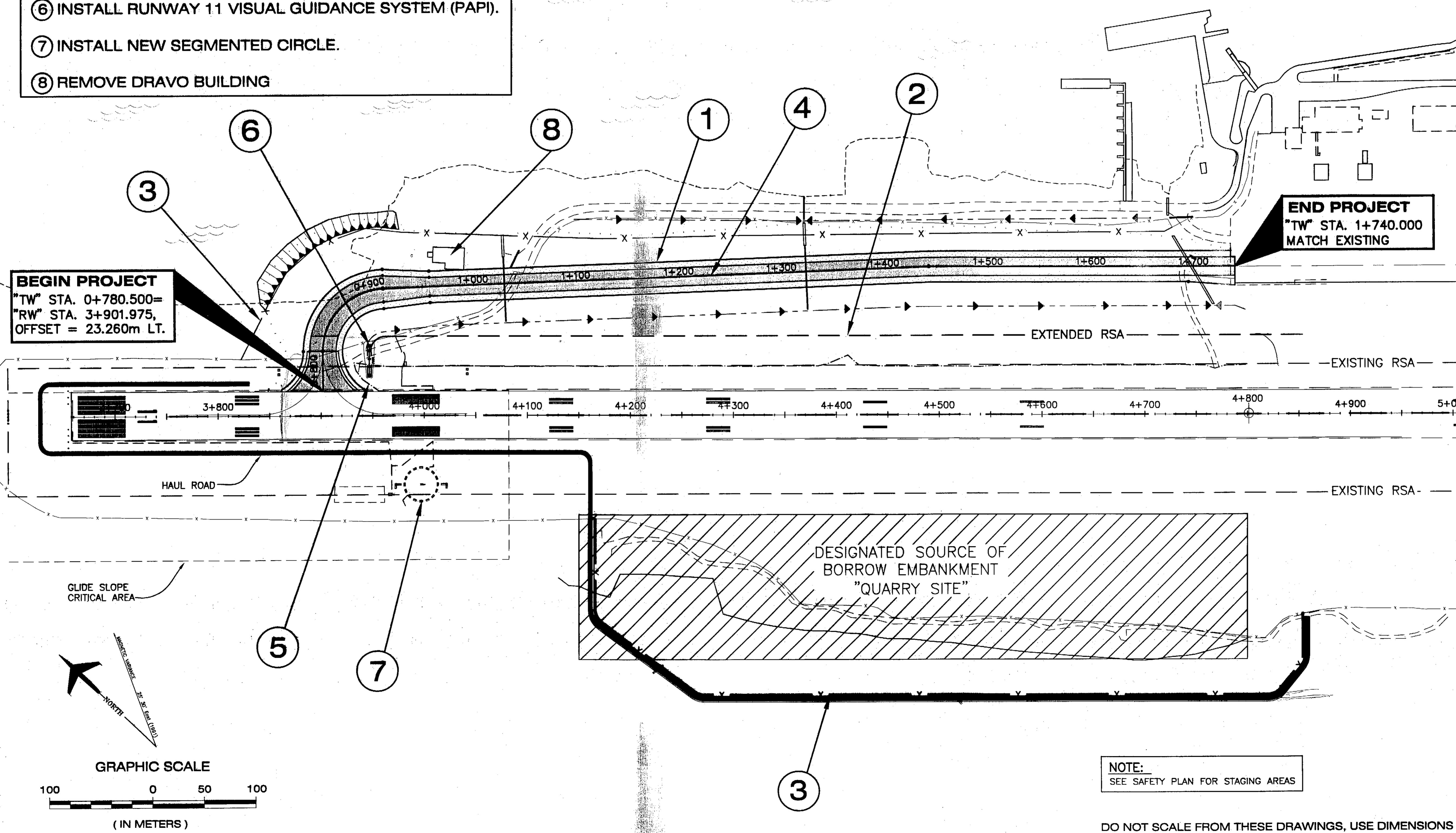
Tongass Narrows

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PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

General Layout Plan



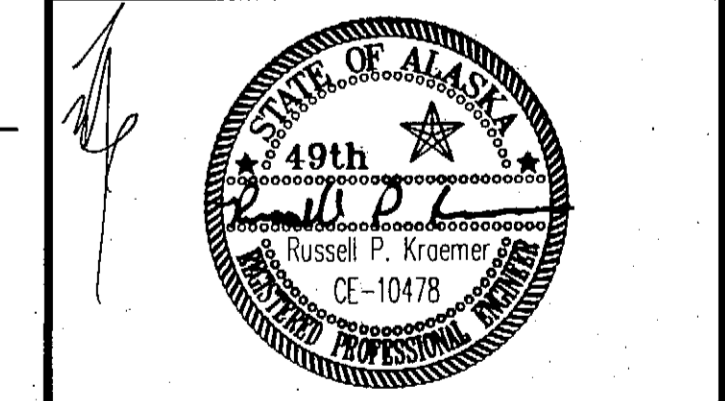
BEGIN PROJECT
 "TW" STA. 0+780.500=
 "RW" STA. 3+901.975,
 OFFSET = 23.260m LT.

END PROJECT
 "TW" STA. 1+740.000
 MATCH EXISTING

NOTE:
 SEE SAFETY PLAN FOR STAGING AREAS

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

DESIGNED BY: R. KRAEMER

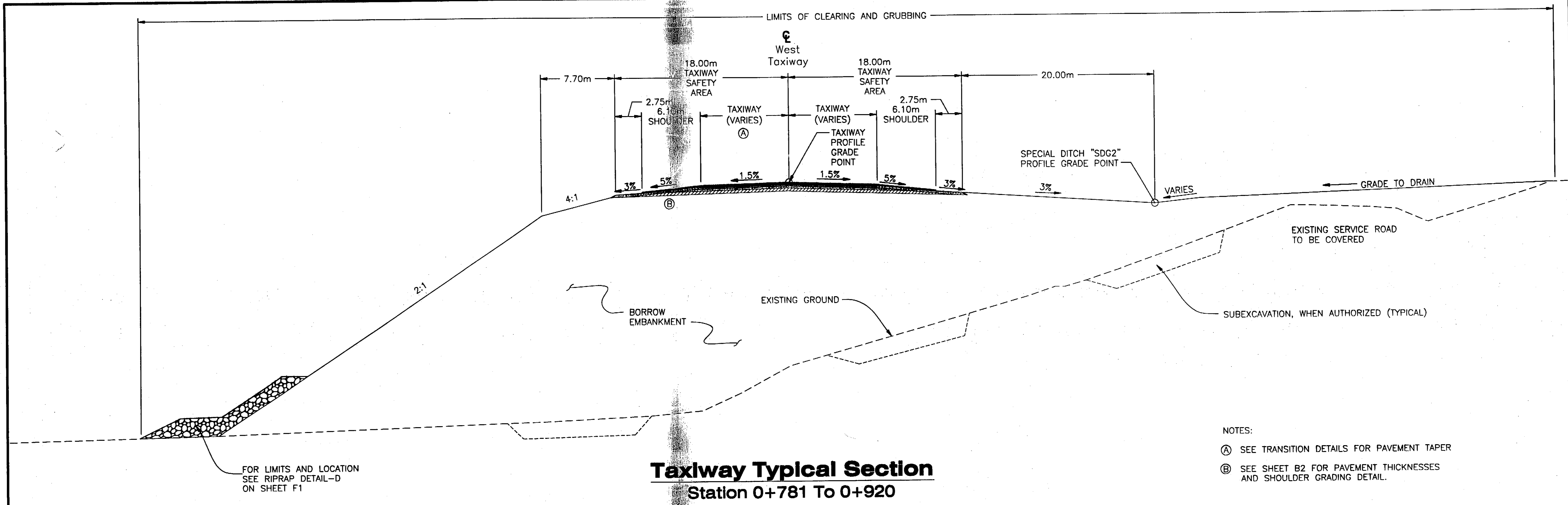


CHECKED BY: VICTOR M. WINTERS
 DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035**
**General
 Layout Plan**

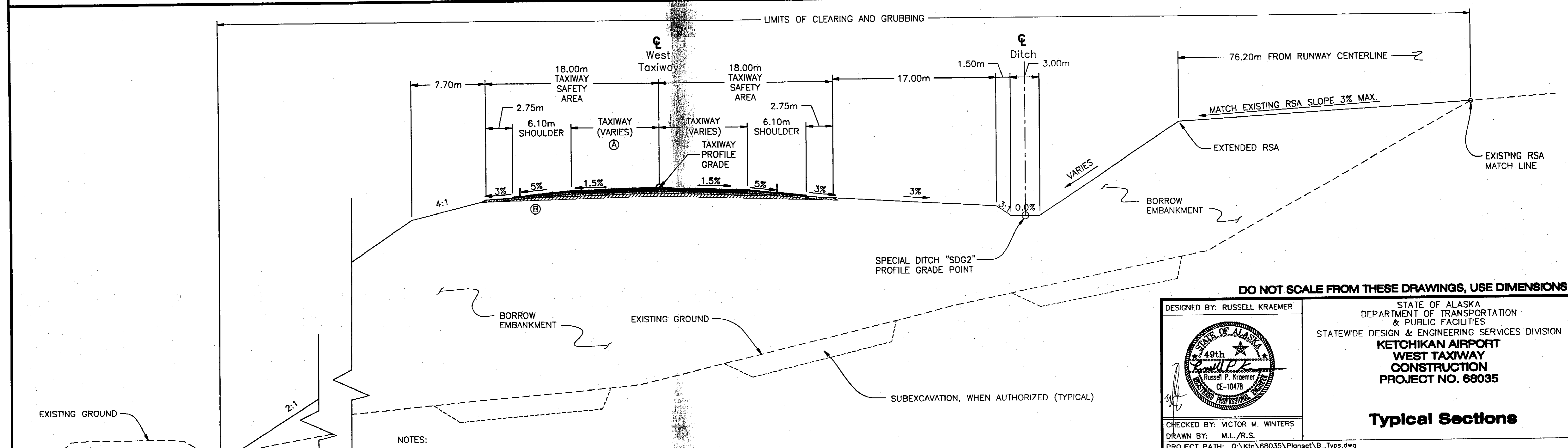
PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
A3	48



Taxiway Typical Section
Station 0+781 To 0+920

- NOTES:
 (A) SEE TRANSITION DETAILS FOR PAVEMENT TAPER
 (B) SEE SHEET B2 FOR PAVEMENT THICKNESSES AND SHOULDER GRADING DETAIL.



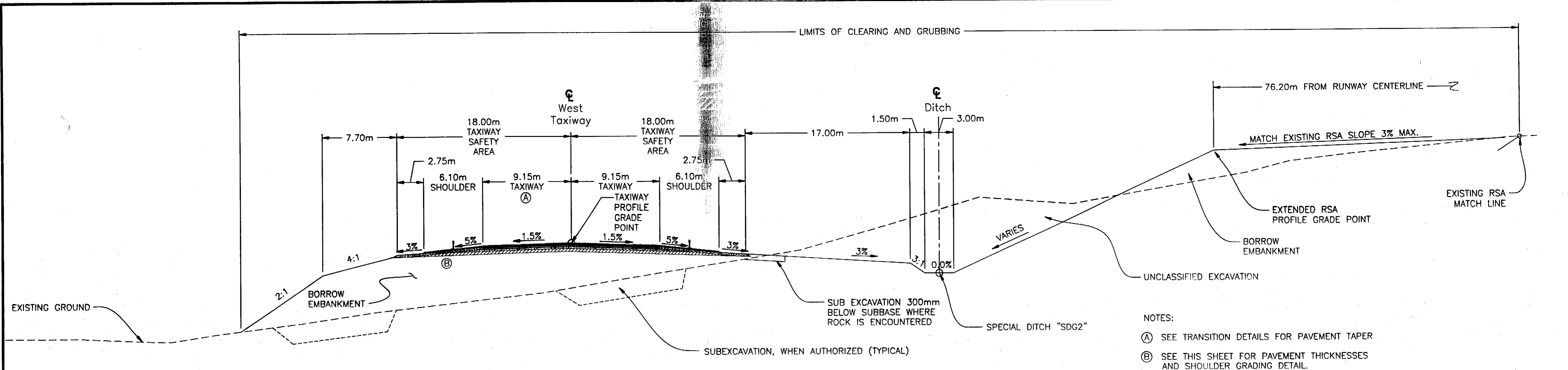
Taxiway Typical Section
Station 0+920 To 1+220

- NOTES:
 (A) SEE TRANSITION DETAILS FOR PAVEMENT TAPER
 (B) SEE SHEET B2 FOR PAVEMENT THICKNESSES AND SHOULDER GRADING DETAIL.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

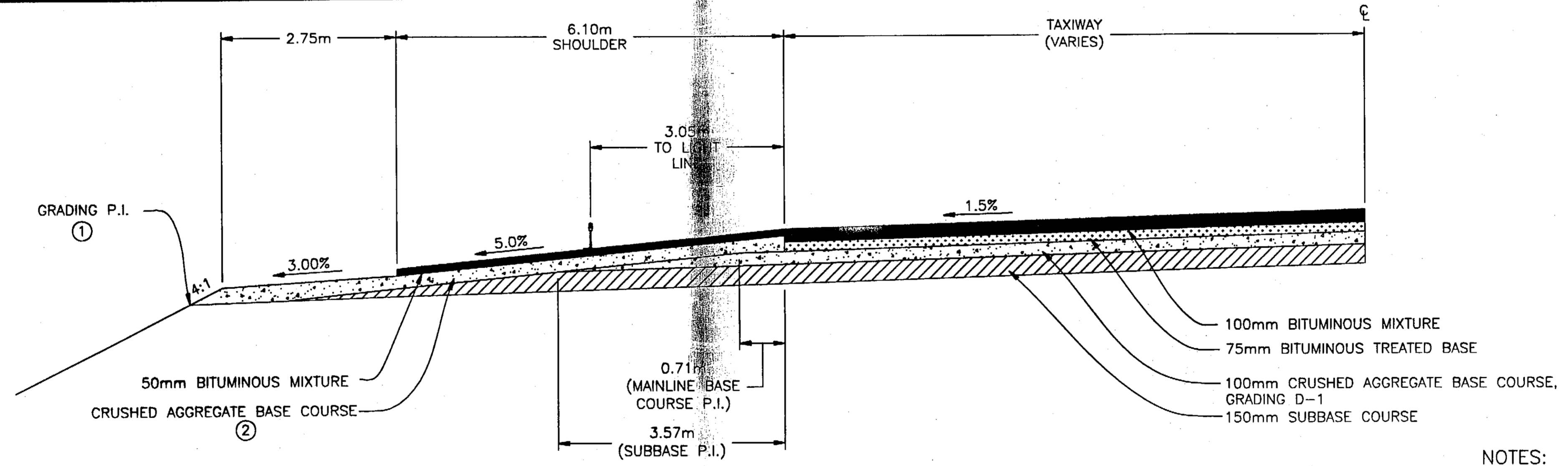
DESIGNED BY: RUSSELL KRAEMER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION	
		KETCHIKAN AIRPORT WEST TAXIWAY CONSTRUCTION PROJECT NO. 68035	
		Typical Sections	
CHECKED BY: VICTOR M. WINTERS		PROJECT DESIGNATION	
DRAWN BY: M.L./R.S.		AIP NO.	
PROJECT PATH: Q:\Ktr\68035\PlanSet\B_Typs.dwg		3-02-0144-1402	
		YEAR	2002
		SHEET NO.	B1
		TOTAL SHEETS	48

REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION			



- NOTES:
- Ⓐ SEE TRANSITION DETAILS FOR PAVEMENT TAPER
 - Ⓑ SEE THIS SHEET FOR PAVEMENT THICKNESSES AND SHOULDER GRADING DETAIL.

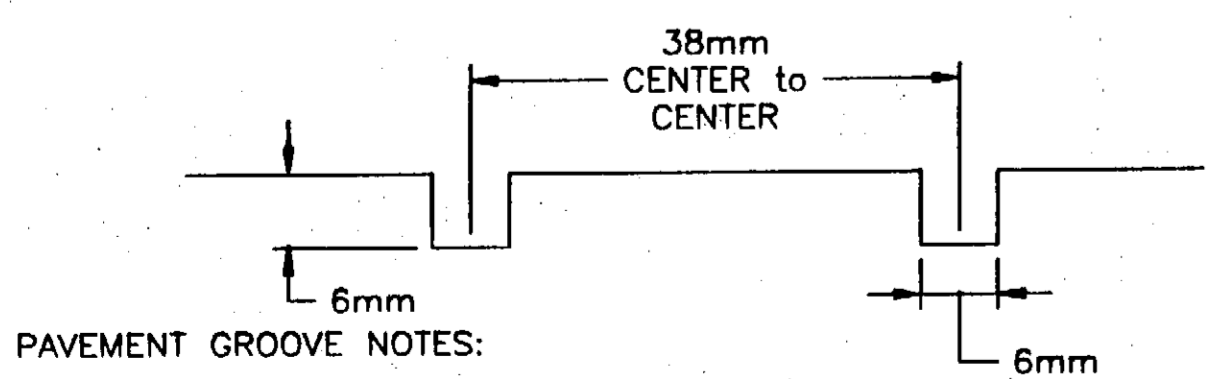
Taxiway Typical Section
Station 1+220 To 1+740



- NOTES:
- ① BORROW EMBANKMENT HOLDS 1.5% GRADE FROM CENTERLINE TO GRADING P.I.
 - ② CRUSHED AGGREGATE BASE COURSE 100mm UNDER SHOULDER PAVEMENT. DEPTH VARIES TO MEET SURFACE GRADES SHOWN.

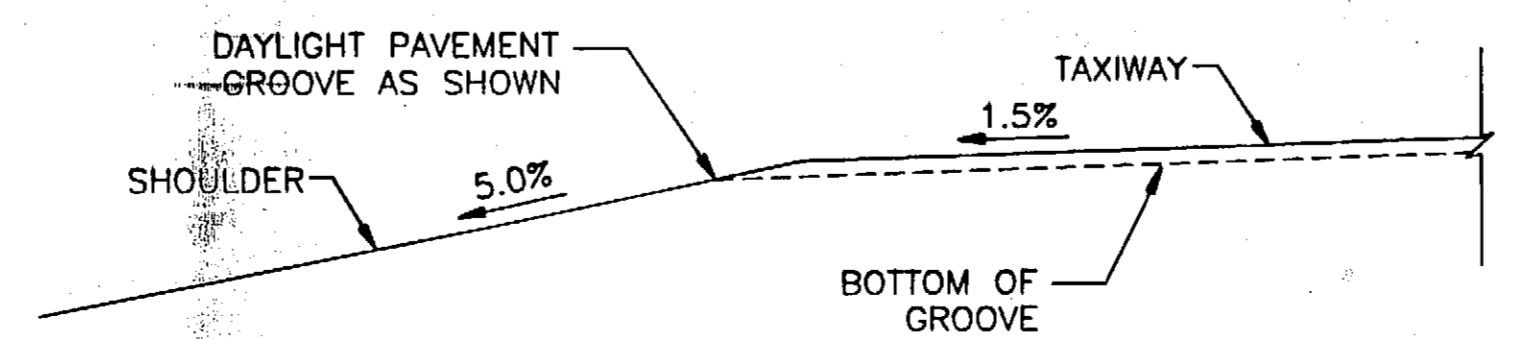
Pavement Thicknesses And Shoulder Grading Detail

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

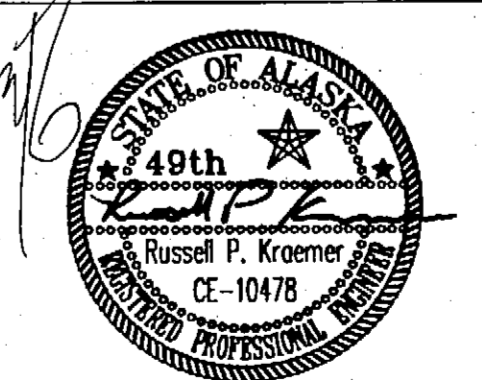


- PAVEMENT GROOVE NOTES:
- ① ALL NEW TAXIWAY PAVEMENT WILL BE GROOVED. THE GROOVES WILL RUN PERPENDICULAR TO CENTERLINE.
 - ② SEE SECTION P-630 FOR DETAILS OF THE GROOVING OPERATION.

Typical Pavement Groove Section



Pavement Groove Profile

DESIGNED BY: RUSSELL KRAEMER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION KETCHIKAN AIRPORT WEST TAXIWAY CONSTRUCTION PROJECT NO. 68035			
		Typical Sections			
CHECKED BY: VICTOR M. WINTERS DRAWN BY: M.L./R.S. PROJECT PATH: Q:\Ktn\68035\Planset\B_Typs.dwg		PROJECT DESIGNATION AIP NO. 3-02-0144-1402	YEAR 2002	SHEET NO. B2	TOTAL SHEETS 48
NO.	DATE	REVISIONS DESCRIPTION			

Estimate of Quantities			
Item No	Pay Item	Pay Unit	Quantity
D-701d	Corrugated Steel Pipe Arch, 1800 mm x 1200 mm	Meter	83.217 88
D-701e	Corrugated Polyethylene Pipe, 600 mm	Meter	453.00
D-701f	Corrugated Polyethylene Pipe, 750 mm	Meter	176.14 172
D-701g	Corrugated Polyethylene Pipe, 1200 mm	Meter	12.3 12
D-701h	End Section With Grate, 600 mm	Each	5 4
D-701i	End Section With Grate, 750 mm	Each	2 1
D-701j	End Section With Grate, 1200 mm	Each	1
D-701k	Corrugated Steel Pipe, 300 mm	Meter	85.34 76
D-701l	Security Gate	Each	2
F-162a	2.4 meter Chain-Link Fence	Meter	1945.6 1850
G-100a	Mobilization and Demobilization	Lump Sum	All Required
G-130a	Field Office	Lump Sum	All Required
G-130b	Field Laboratory	Lump Sum	All Required
G-131a	Engineering Transportation	Lump Sum	All Required
G-135a	Construction Surveying by the Contractor	Lump Sum	All Required
G-704a	Hazardous Area Barrier	Each	20
GCP-100	Contractor Quality Control Program	Lump Sum	All Required
L-100a	Removal of existing VASI	Lump Sum	All Required
L-100b	Installation of new PAPI provided by others	Lump Sum	All Required
L-100c	New High Intensity Runway Marker Light, Edge and Threshold L-862	Each	4 2
L-100d	Removal of Runway/Taxiway Marker Light	Each	4 2
L-100e	New Taxiway Marker Light, L-861T	Each	54
L-100f	Primary Handhole, L-868, Size B	Each	2
L-100g	New Manhole	Each	16 77
L-100h	Replacement of Existing Sign Legend	Each	4 2
L-100i	New Airport Sign, Type L-858	Each	4
L-100j	Radio Control Equipment, Type L-854	Lump Sum	All Required
L-100k	150 mm Ductile Iron Pipe for an existing Manhole	Meter	86.4 500
L-108a	Underground Cable #8 AWG, copper, 5 kv FAA type C, L-824	Meter	2428.5 2200
L-108b	#8 Bare Copper Ground Conductor	Meter	2305.6 2500
L-108c	New Disconnects and New Services to the FAA Equipment	Lump Sum	All Required
L-108f	Work on KPU Facilities	Contingent Sum	All Required
L-110a	50mm Rigid Steel Conduit	Meter	91.82 150
L-110b	102mm Rigid Steel Conduit	Meter	63.02 100
L-110c	50mm HDPE Conduit	Meter	212.92 2200
L-110d	50mm HDPE Conduit Where covered by asphalt or concrete	Meter	34.44 29
L-110e	102 mm HDPE Conduit	Meter	4,029.65 2500
L-110f	102 mm HDPE Conduit where covered by asphalt or concrete	Meter	291.93 100
P-151d	Clearing & Grubbing	Lump Sum	All Required
P-152a	Unclassified Excavation	Cubic Meter	574632.40000
P-152d	Drainage Excavation	Cubic Meter	4873.50 4000
P-152h	Borrow Embankment	Cubic Meter	618363.10 600000
P-154a	Subbase Course	Lump Sum	All Required
P-157a	Erosion and Pollution Control Administration	Lump Sum	All Required
P-157b	Temporary Erosion and Pollution Control	Contingent Sum	All Required
P-157d	Silt Fence	Meter	2005.5 2200
P-157e	Temporary Check Dam	Each	45 60
P-157f	Silt Boom	Lump Sum	All Required
P-157g	Temporary Settling Pond	Each	4
P-165a	Removal and Disposal of Existing Structures	Lump Sum	All Required
P-180a	Rip Rap, Class I	Cubic Meter	215.80 300
P-180b	Rip Rap, Class IV III	Cubic Meter	4771.66 2200
P-209a	Crushed Aggregate Base Course	Lump Sum	All Required
P-400a	Bituminous Treated Base	Megagram	3626.08 3700
P-401a	Bituminous Mixture	Megagram	6835.53 6600
P-401b	Bituminous Price Adjustment	Contingent Sum	All Required
P-401c	Bituminous Material [PG 64-28]	Megagram	487.63 540
P-603a	Bituminous Tack Coat	Megagram	11.70 9
P-620a	Runway and Taxiway Painting	Square Meter	900.70 830
P-630b	Pavement Grooving	Lump Sum	All Required
P-640b	Segmented Circle (Panel-Type)	Lump Sum	All Required
T-901d	Seeding	Lump Sum Square Meter	57,825.1 All Required
T-908a	Mulching	Lump Sum Square Meter	22715 All Required
T-908b	Rolled Matting	Lump Sum Square Meter	1386 All Required
	Change Order	Lump Sum	All Required
L-108f	Temporary Powerline	Lump Sum	All Required
P-610a	Temporary Weather Station	Lump Sum	All Required
P-610b	Permanent Weather Station	Lump Sum	All Required
L-100N	F420 Radio Control Equipment	Lump Sum	All Required
L-100o	Move Airport Signs	Lump Sum	All Required
L-100p	New upgrade on Breaker	Lump Sum	All Required
P-401d	Additional Core Samples	Lump Sum	All Required

UPDATED 6/17/02 12:55

Basis of Estimate					
Item No.	Item	English		Metric	
P-151d	Clearing and Grubbing	55	acres	22	hectares
P-154a	Subbase Course	5910	cy	4520	cubic meters
P-165a	Removal and Disposal of Existing Structures - See summary on sheet C2.	---	---	---	---
P-209b	Crushed Aggregate Base Course	5520	cy	4220	cubic meters
P-401a	Bituminous Mixture	123	lb/sq yd/in	0.002627	Mg/sq. meter/mm
P-401c	Bituminous Material [PG 64-28]	6% of 401a + 4% of 401d		6% of 401a + 4% of 401d	
P-401d	Bituminous Treated Base	119	lb/sq yd/in	0.002542	Mg/sq. meter/mm
P-603a	Bituminous Tack Coat	0.1	gal./sq yd	0.453	l/sq. meter
P-603a	Bituminous Tack Coat	240	gal./ ton	1001.45	l/Mg
P-630b	Pavement Grooving	22850	square yards	19100	square meters
T-901a	Seeding	15.5	acres	6.30	hectares
T-908a	Mulching	14	acres	5.80	hectares
T-908b	Rolled Matting	1.5	acres	0.50	hectares

NOTE:
 QUANTITIES PROVIDED IN THE BASIS OF ESTIMATE ARE APPROXIMATE, AND BASED ON NEAT LINE MEASUREMENTS.
 THEY ARE PROVIDED FOR INFORMATION ONLY, AND ACT AS A BASIS FOR THE ENGINEERS ESTIMATE. ALL QUANTITIES
 WERE CALCULATED BASED ON THE BEST AVAILABLE INFORMATION AND REFLECT THE DESIGNER'S JUDGEMENT AND ASSUMPTIONS.

NOT INSTALLED - NEW EQUIPMENT DELIVERED TO KGB AIRPORT MAINTENANCE

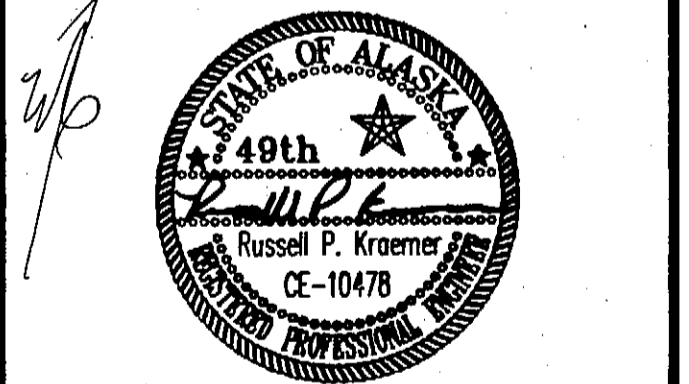
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 WEST TAXIWAY
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 PROJECT NO. 68035

Estimate of Quantities

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035
 Estimate Of
 Quantities**

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
C1	48

Culvert Installation Summary

PIPE	INLET			OUTLET			300 mm CSP	600 mm HDPE	750 mm HDPE	1200 mm HDPE	1800 x 1200 mm CMPA	GRADE	REMARKS
	STATION	OFFSET	APPROX. INVERT	STATION	OFFSET	APPROX. INVERT							
P-1	"TW" 1+038.00	36.50 R	22.00	"TW" 1+038.00	26.50 L	20.85			63.0			1.83%	NOTE 1 & 6
P-2	"TW" 1+323.00	36.50 R	17.54 M	"TW" 1+323.00	26.00 L	16.7635			62.5			1.24%	NOTE 1 & 6
P-3	"TW" 1+323.00	51.50 L	4.92	"TW" 1+323.00	73.50 L	4.68			22.0			1.12%	NOTE 1 & 6
P-4	"TW" 1+718.95	36.50 R	11.70	"TW" 1+680.10	29.80 L	10.63					*77 72.0	1.49%	NOTE 1, 2, 6 & 7
P-5	"TW" 1+674.83	50.20 L	6.96	"TW" 1+674.91	67.23 L	6.72					*17 16.0	1.50%	NOTE 1, 2, & 6
P-6	"RW" 4+230.38	242.72 R	40.06	"RW" 4+222.37	248.70 R	39.94			10.0			1.20%	NOTE 3, 4 & 6
P-7	"RW" 4+522.21	279.46 R	49.09	"RW" 4+511.22	270.15 R	48.79			14.5			2.07%	NOTE 3, 4 & 6
P-8	"RW" 4+833.72	275.20 R	50.16	"RW" 4+832.32	265.30 R	49.89				12.0		2.25%	NOTE 3, 4 & 6
P-9				"RW" 4+324	275 R				10.0				NOTE 4, 5 & 6
P-10				"RW" 4+354	274 R				10.0				NOTE 4, 5 & 6
P-11				"RW" 4+582	274 R				10.0				NOTE 4, 5 & 6
P-12				"RW" 4+654	274 R				10.0				NOTE 4, 5 & 6
P-13	"RW" 4+168	140 R		"RW" 4+110	112 R		70.0						NOTE 6 & ⑥
P-14				"RW" 4+704	272 R				10.0				
TOTALS							70.0	40.0	172.0	12.0	88.0		

* Sta & offset Distance is 77 thus 72 is an error.
 * Sta & offset Distance is 17 thus 16 is an error.

NOTES:

1. PLACE CLASS I RIPRAP AT THE INLET AND OUTLET OF THE PIPE. SEE ESCP DETAILS.
2. CONSTRUCT TYPE II HEADWALLS AT INLET AND OUTLET. SEE ALASKA STANDARD DRAWING D-30.03[M]
3. PLACE CULVERT AT THE APPROXIMATE LOCATIONS SHOWN ON THE PLAN.
4. INSTALL END SECTION AND GRATE ON THE PIPE INLET. SEE MISCELLANEOUS DRAINAGE DETAILS.
5. PLACE ADDITIONAL PIPES UNDER PERIMETER ROAD AS REQUIRED OR AS DIRECTED.
6. ALL CULVERTS MUST BE INSTALLED AS PRESCRIBED IN THE ENVIRONMENTAL COMMITMENTS.
7. INSTALL SECURITY GRATES ON INLET AND OUTLET AS SHOWN IN THE DRAINAGE DETAILS.
8. TEMPORARY INSTALLATION OF PIPE FOR SETTLING PONDS, REMOVE PIPE WHEN DIRECTED.

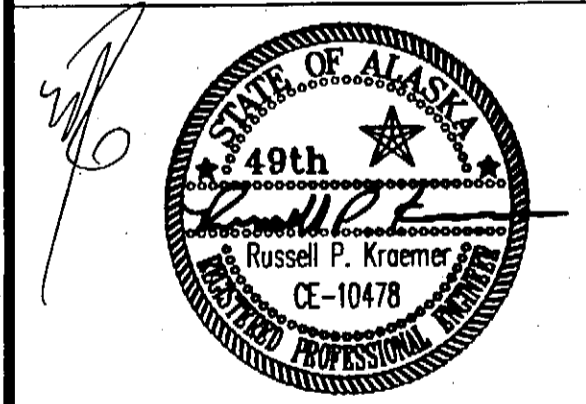
Removal and Disposal of Existing Structures

ITEMS / REMARKS	FROM		TO		LENGTH / AREA
	STATION	OFFSET	STATION	OFFSET	
CHAIN LINK FENCE	"RW" 4+162	RT	"RW" 4+854	191 RT	722
CHAIN LINK FENCE	"RW" 3+823	LT	"RW" 4+727	182 LT	963
DOUBLE SWING GATE	"RW" 4+094	LT	---	---	---
FENCE REMOVAL TOTAL					1685 m
CULVERT 450 mm	"RW" 4+084.6	15.6 LT	"RW" 4+092.8	159.6 LT	18.8
CULVERT 600 mm	"RW" 4+369.1	19.2 LT	"RW" 4+369.2	212.2 LT	22.0
CULVERT 1200 mm	"RW" 4+722.8	15.5 LT	"RW" 4+722.9	210.5 LT	17.1
CULVERT 900 mm	"RW" 4+744.7	15.6 LT	"RW" 4+749.8	150.1 LT	6.2
CULVERT REMOVAL TOTAL					64.1 m
DRAGO BUILDING - SEE HAZARDOUS MATERIALS ASSESSMENT IN APPENDIX E					602 sq. m
JETWAY AND MISCELLANEOUS DEBRIS AT THE EXISTING QUARRY					

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

Miscellaneous Summaries

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

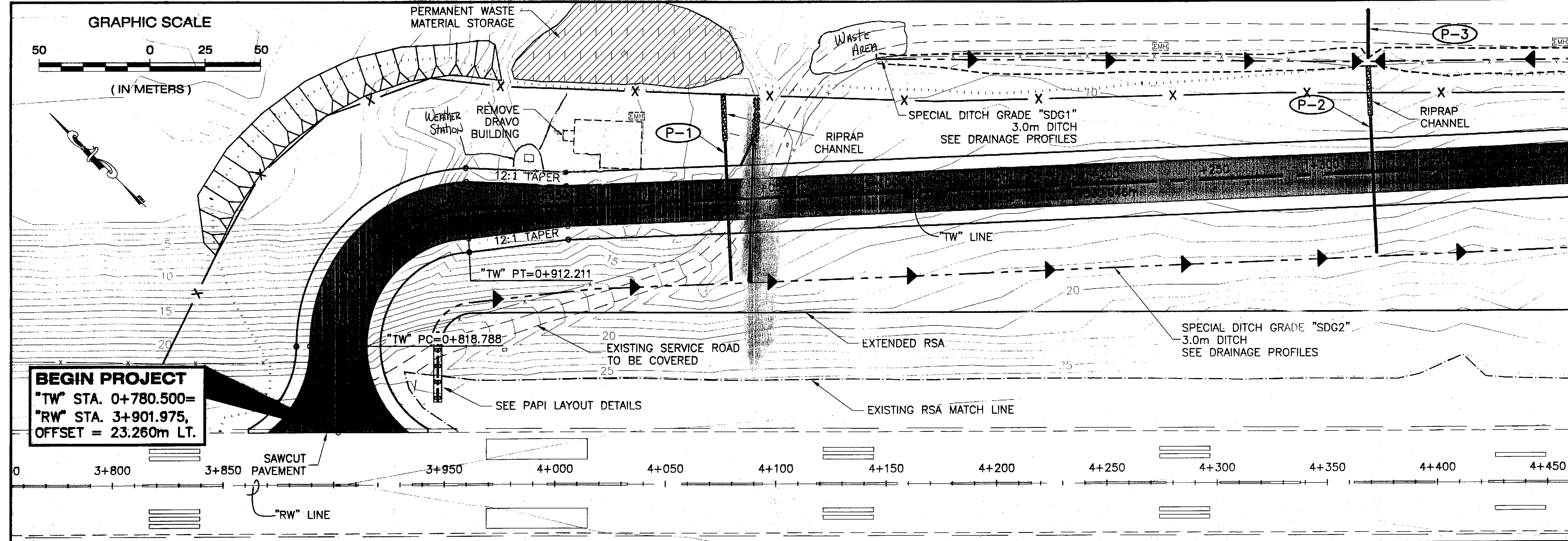
**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035
 Miscellaneous
 Summaries**

PROJECT DESIGNATION NUMBER

AIP NO. 3-02-0144-1402

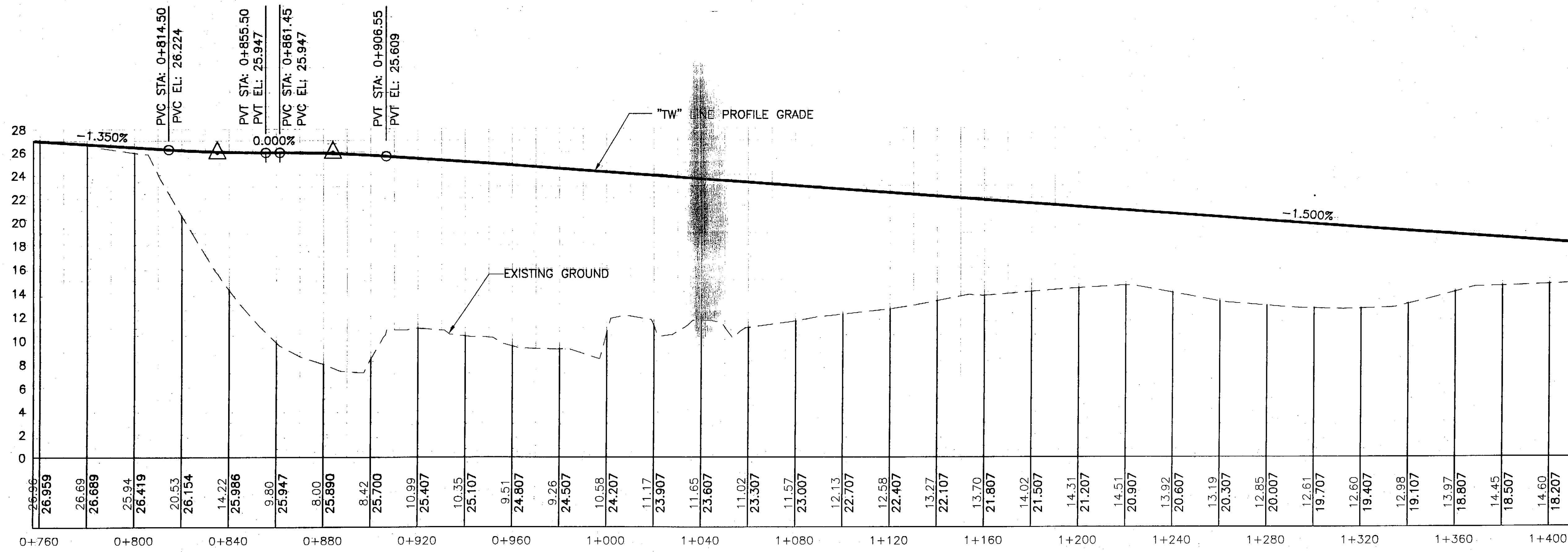
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
D1	48

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



LOW POINT ELEV = 25.947
 LOW POINT STA = 0+855.49
 PVI STA = 0+835
 PVI ELEV = 25.947
 VC = 41m

HIGH POINT ELEV = 25.947
 HIGH POINT STA = 0+861.46
 PVI STA = 0+884
 PVI ELEV = 25.947
 VC = 45.1m

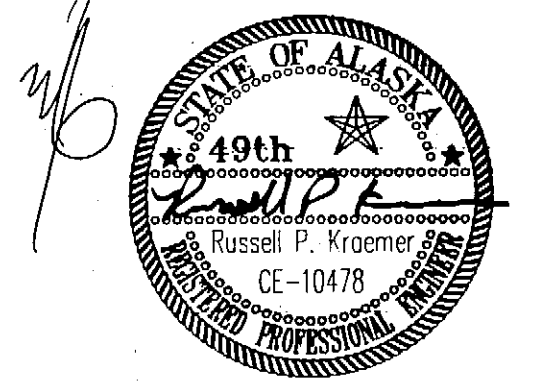


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KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

Plan & Profile

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
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 STATEWIDE DESIGN & ENGINEERING
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 KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

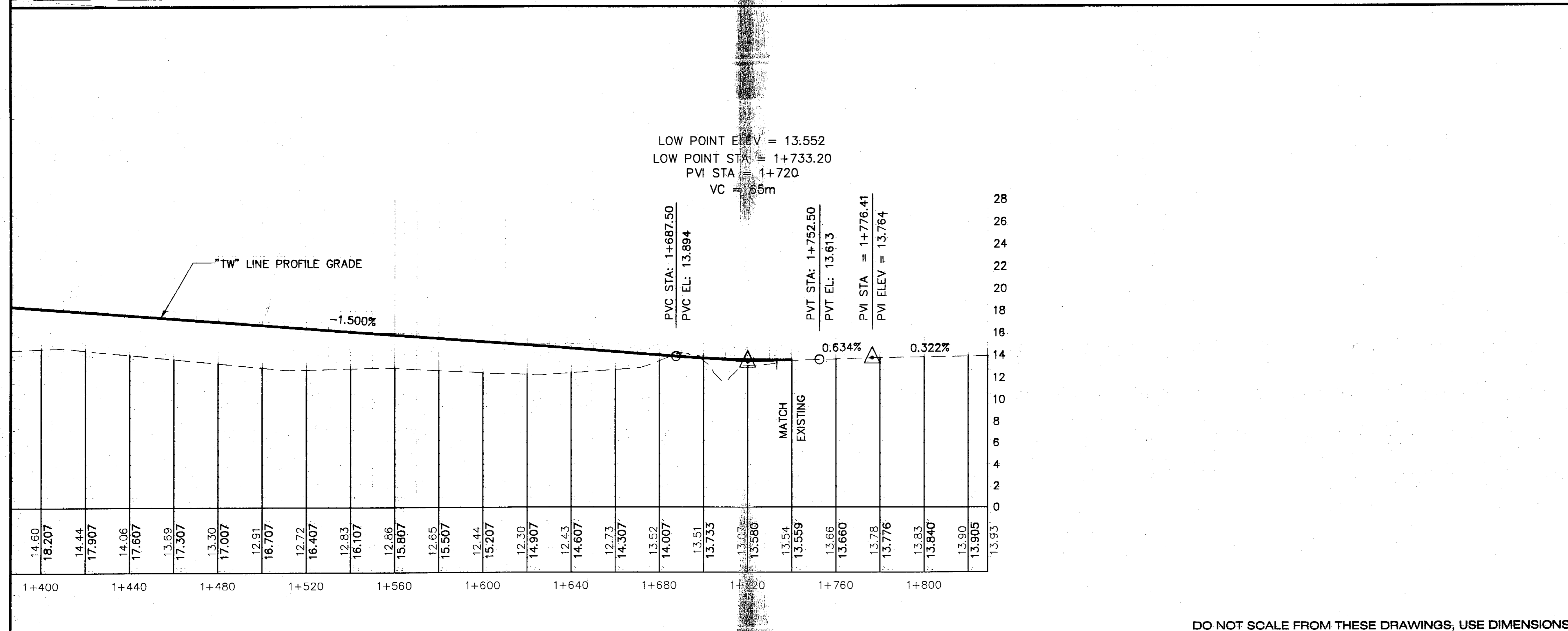
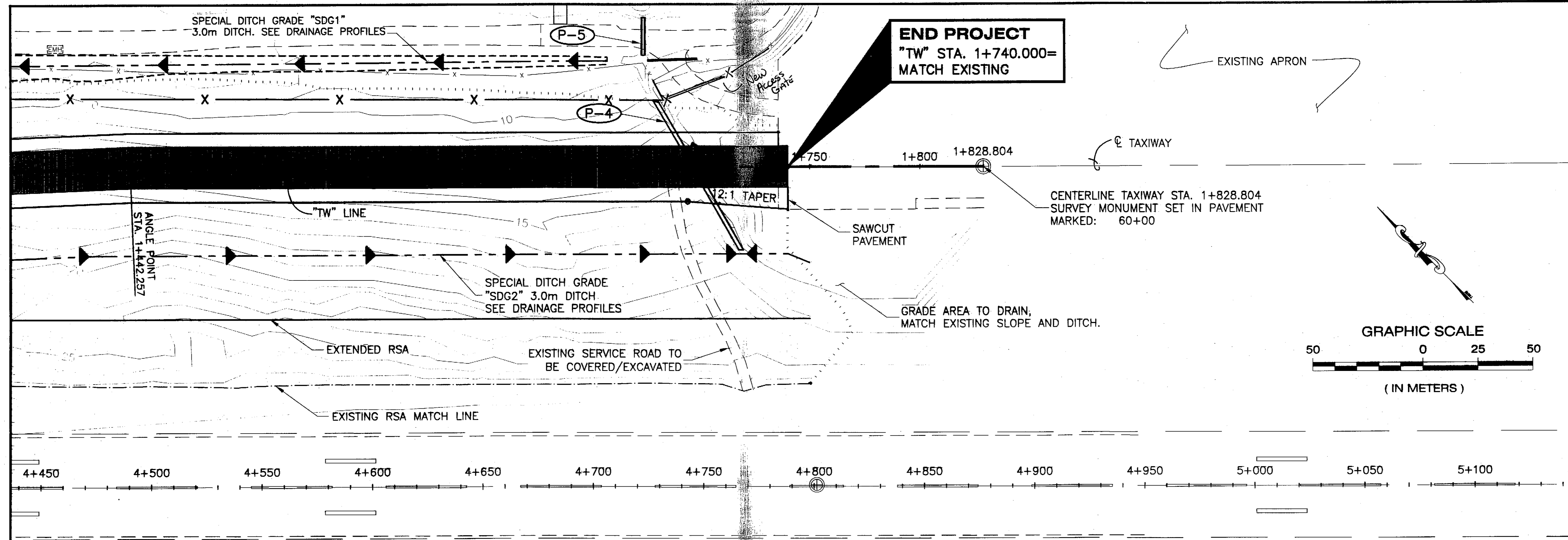
Plan & Profile

PROJECT DESIGNATION NUMBER

AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
E1	48

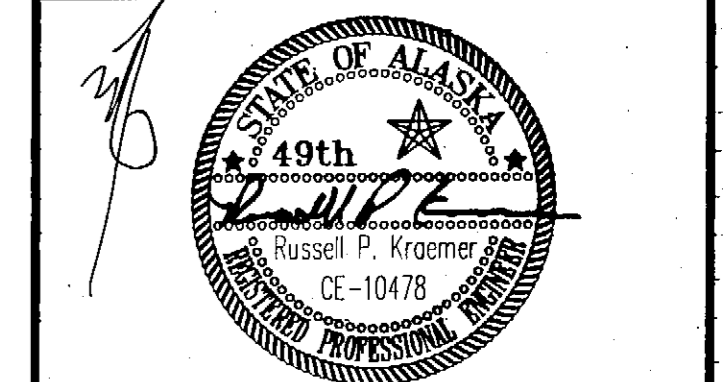
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
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Plan & Profile

DESIGNED BY: R. KRAEMER



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**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035**

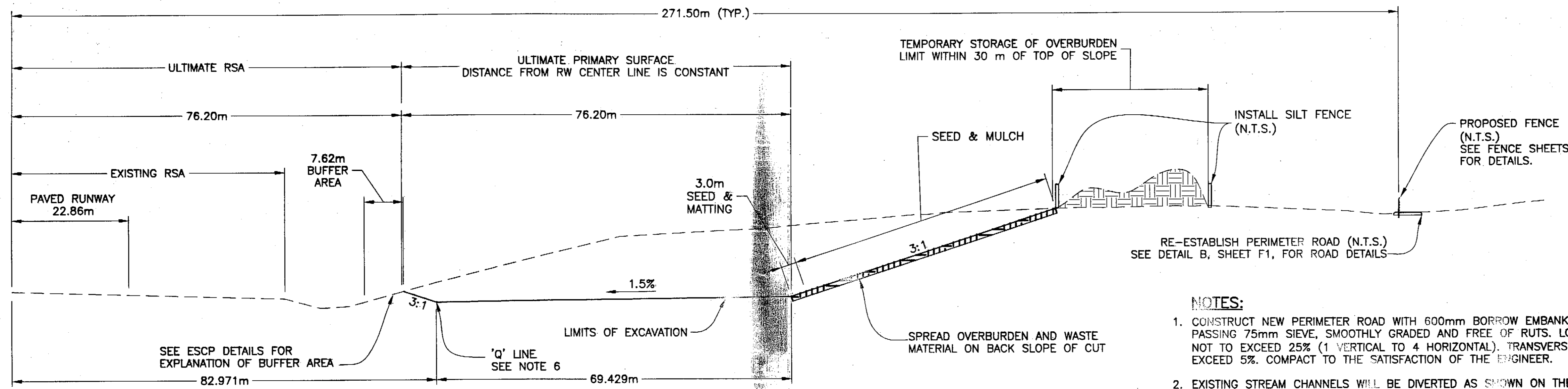
Plan & Profile

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002

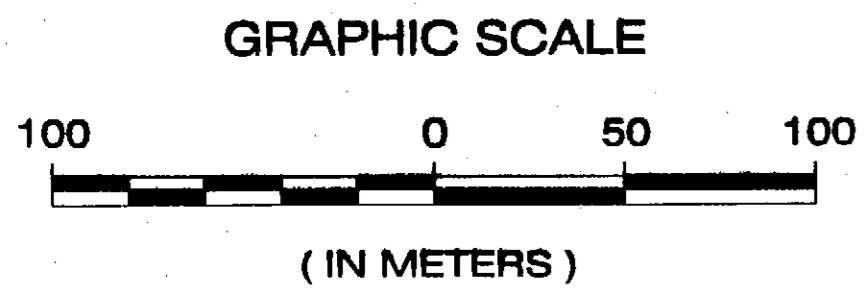
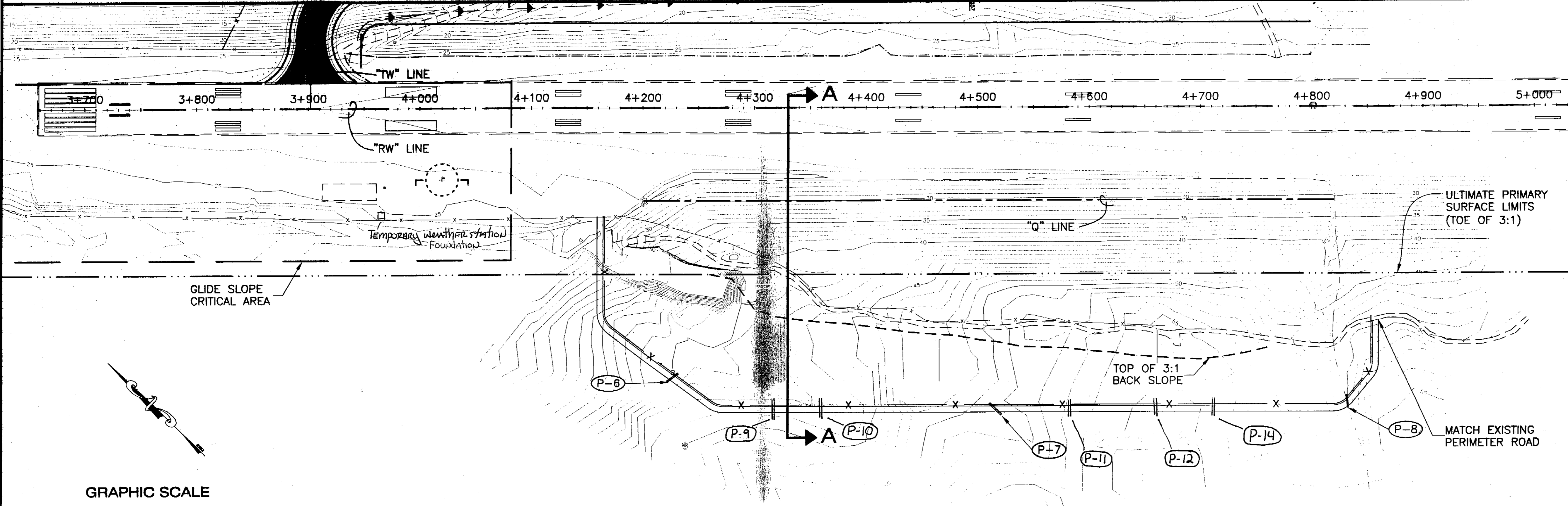
SHEET NUMBER	TOTAL SHEETS
E2	48

Q
RUNWAY



- NOTES:**
1. CONSTRUCT NEW PERIMETER ROAD WITH 600mm BORROW EMBANKMENT WITH 100% PASSING 75mm SIEVE, SMOOTHLY GRADED AND FREE OF RUTS. LONGITUDINAL GRADE NOT TO EXCEED 25% (1 VERTICAL TO 4 HORIZONTAL). TRANSVERSE GRADE NOT TO EXCEED 5%. COMPACT TO THE SATISFACTION OF THE ENGINEER.
 2. EXISTING STREAM CHANNELS WILL BE DIVERTED AS SHOWN ON THE ESCP SHEETS OR AS DIRECTED. PLACE ADDITIONAL CULVERTS PER SECTION D-701 AS NEEDED TO MAINTAIN EXISTING DRAINAGE PATTERNS.
 3. NEW PERIMETER ROAD MUST BE COMPLETE BEFORE INSTALLATION OF NEW FENCE.
 4. SEE ESCP SHEETS FOR SECTION WITH SETTLING POND.
 5. SEE ESCP PLAN FOR STREAM DIVERSIONS.
 6. ELEVATION AT 'Q' LINE: $E = \text{EDGE RW ELEVATION} - 53.34(0.03) + 6.771(0.015)$

Section A-A
Typical for Borrow Site
Approximate RW Station 4+150 AHEAD



Plan View Of Borrow Site

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

PATH:
Q:\Ktn\68035\PlanSet\E_Mining Plan.dwg
Tue, 18/Jun/02 10:05AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

Mining Plan

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

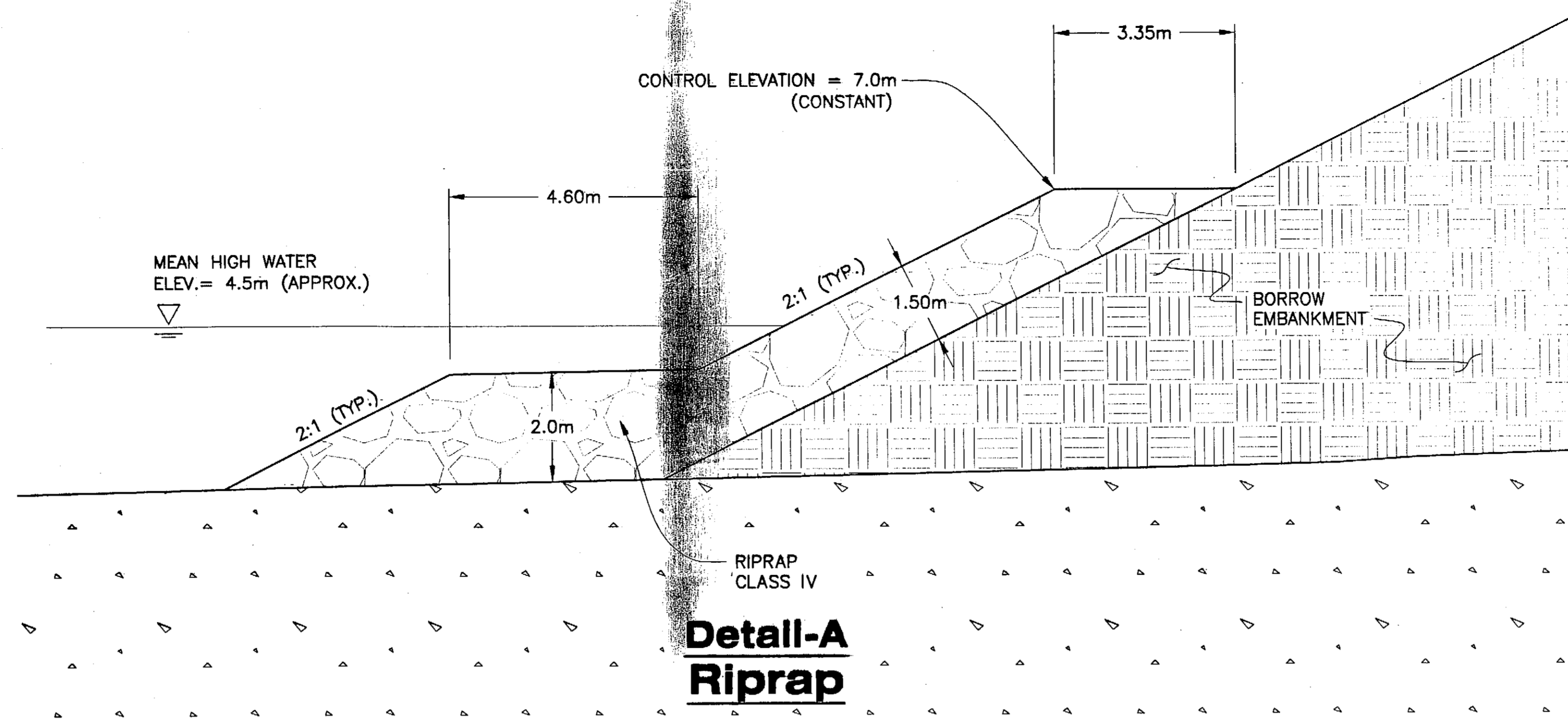
STATE OF ALASKA
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**KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035**

Mining Plan

PROJECT DESIGNATION NUMBER

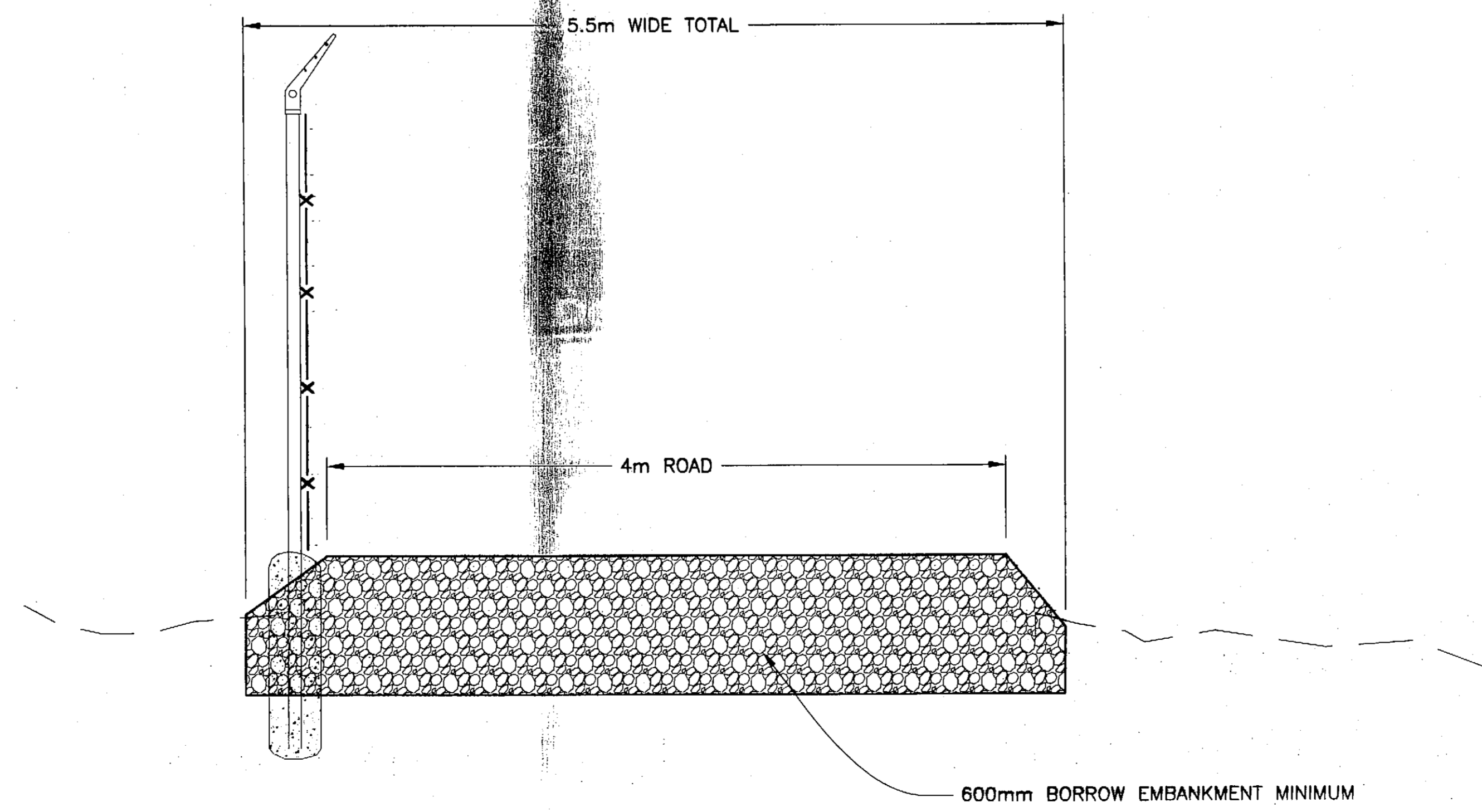
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
E3	48



NOTES:

1. CLASS IV RIPRAP SHALL BE PLACED AT THE LEFT TOE OF SLOPE FROM 0±840 TO 0±935 AS DEPICTED ON THIS SHEET.
2. SALVAGE OF EXISTING RIPRAP WITHIN THE SLOPE LIMITS OF THE NEW TAXIWAY WILL BE ALLOWED. SEE SECTION P-180.
3. ALL WORK INSIDE THE INTERTIDAL ZONE MUST BE ACCOMPLISHED AS PRESCRIBED IN THE ENVIRONMENTAL COMMITMENTS.
4. SEE ESCP PLAN AND DETAILS FOR APPROXIMATE LOCATION AND GENERAL DETAILS OF THE SILT CONTAINMENT BOOM.

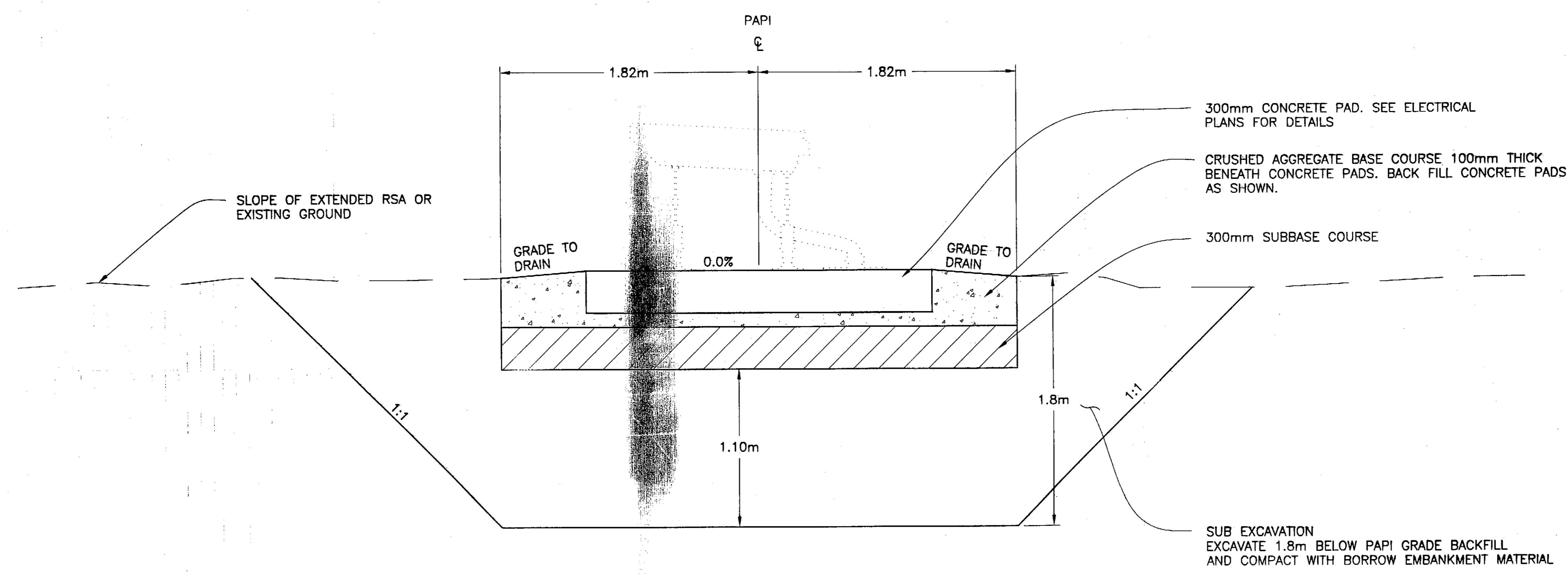


**Detail-B
Proposed Perimeter Road**

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	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION KETCHIKAN AIRPORT WEST TAXIWAY CONSTRUCTION PROJECT NO. 68035	
	Miscellaneous Details	
DESIGNED BY: RUSSELL KRAEMER		CHECKED BY: VICTOR M. WINTERS DRAWN BY: M.L./R.S.
PROJECT PATH: Q:\Ktn\68035\PlanSet\F_MiscDets.dwg		

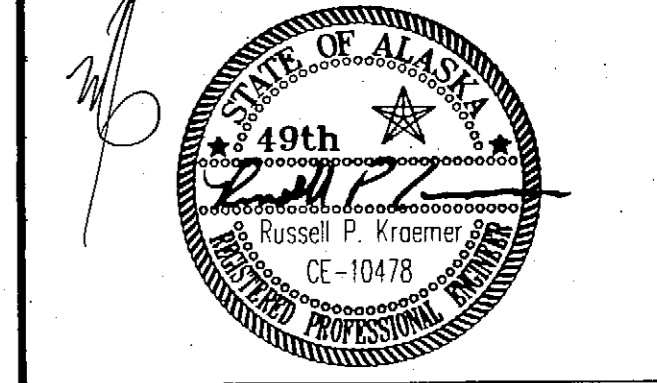
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
AIP NO. 3-02-0144-1402			2002	F1	48



Section View
 Looking Towards Tongass Narrows

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035
PAPI Layout

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035
 PAPI
 Layout**

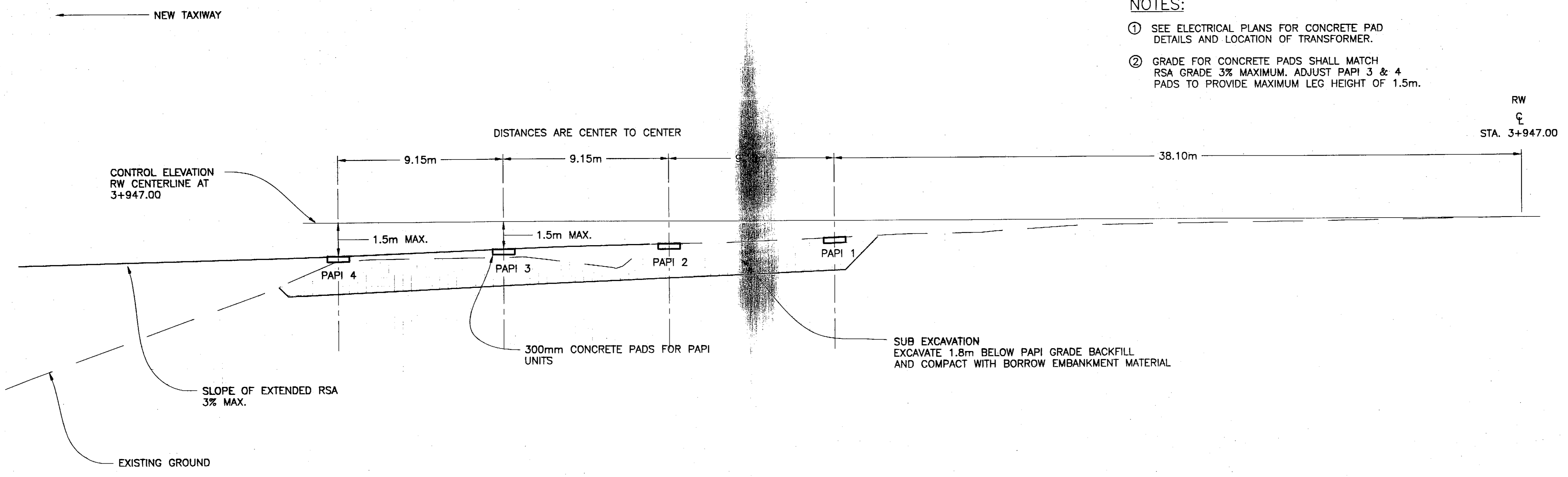
PROJECT DESIGNATION NUMBER

AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
F2	48

NOTES:

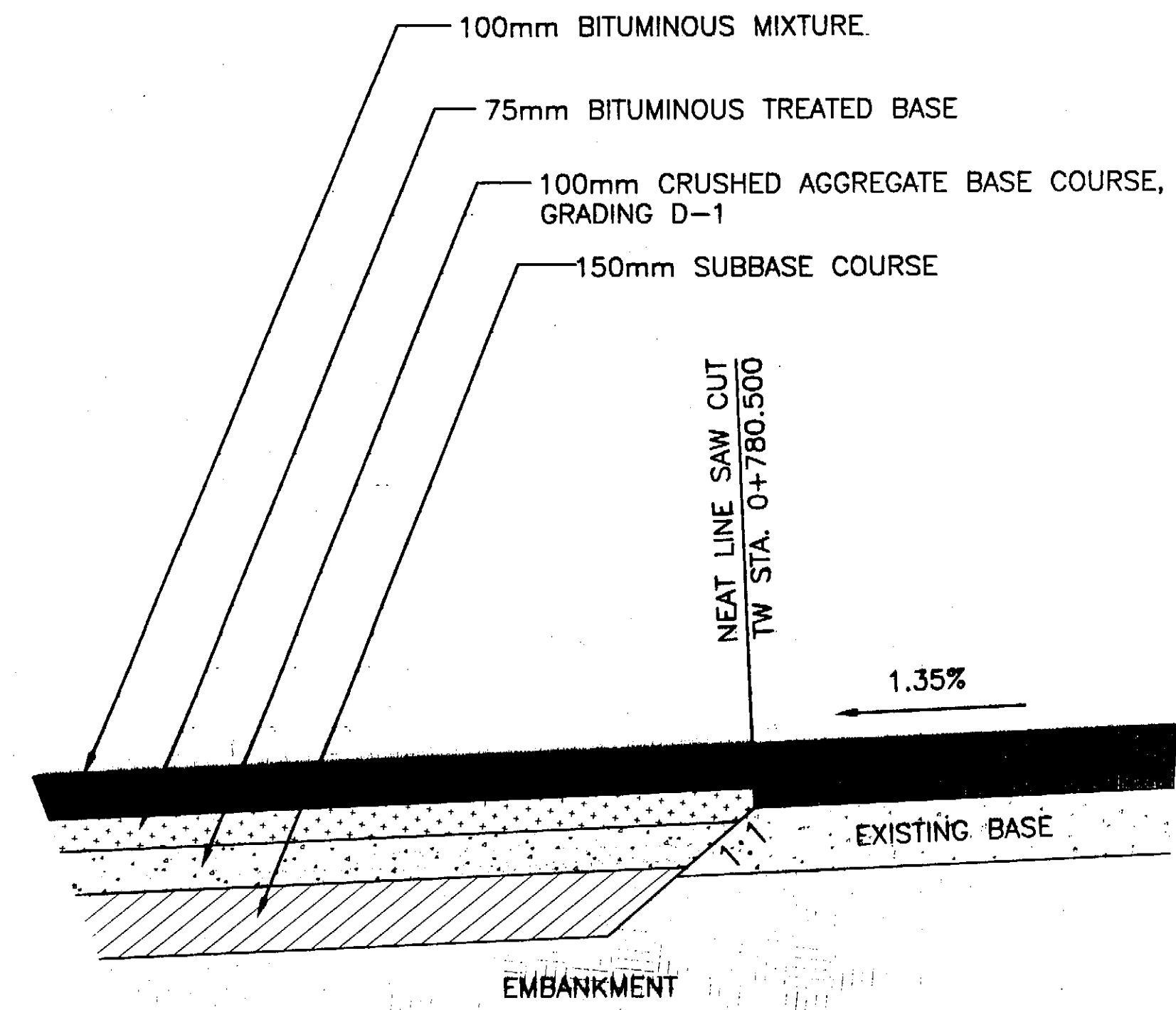
- ① SEE ELECTRICAL PLANS FOR CONCRETE PAD DETAILS AND LOCATION OF TRANSFORMER.
- ② GRADE FOR CONCRETE PADS SHALL MATCH RSA GRADE 3% MAXIMUM. ADJUST PAPI 3 & 4 PADS TO PROVIDE MAXIMUM LEG HEIGHT OF 1.5m.



Profile View

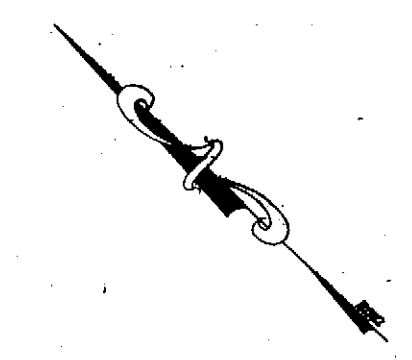
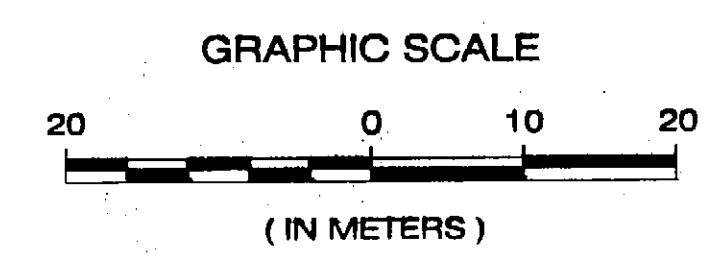
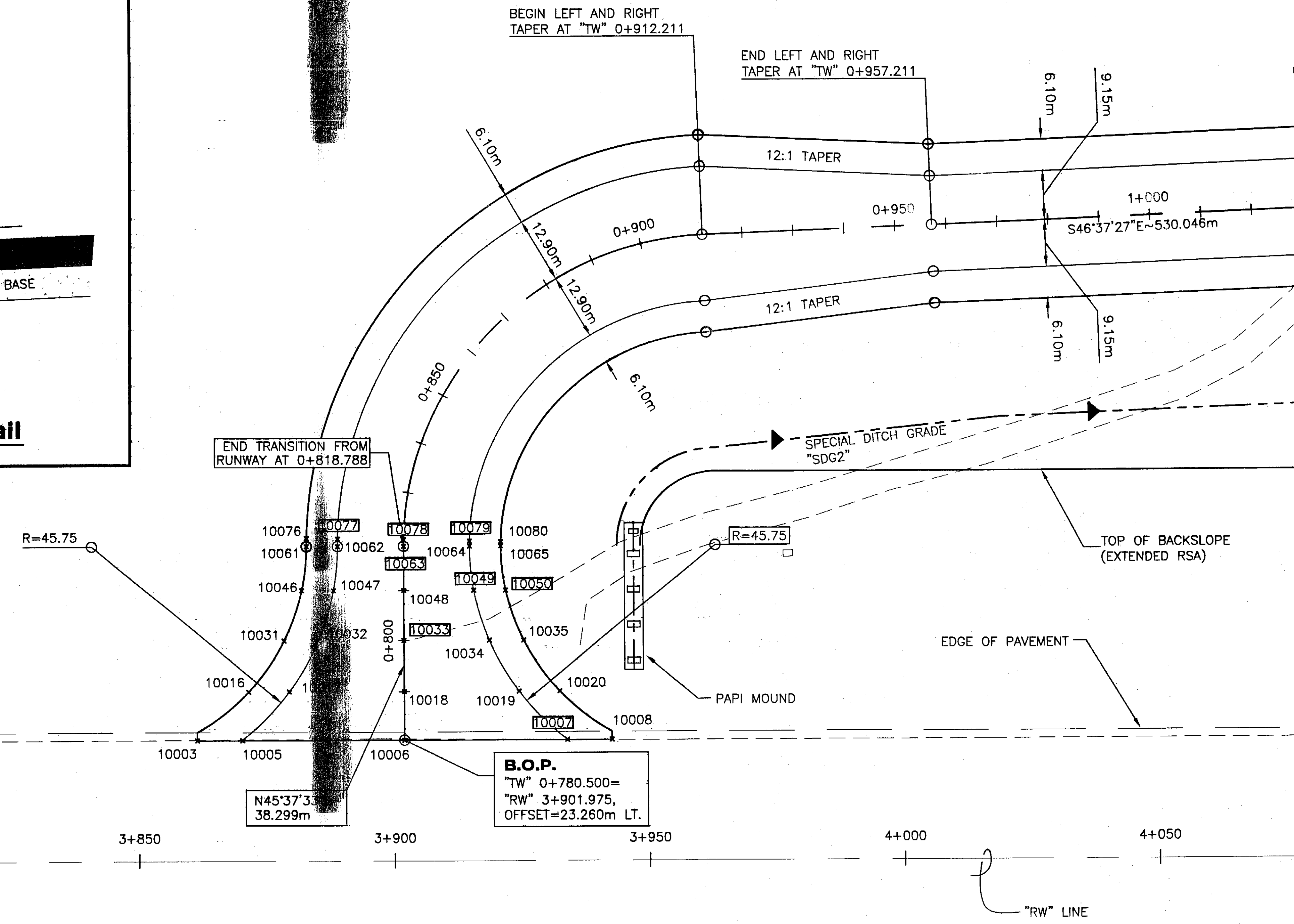
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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



Runway Pavement Match Detail

- NOTES:**
1. SEE RUNWAY PAVEMENT MATCH DETAIL THIS SHEET.
 2. SEE SHEET F5 FOR POINT TABLE.
 3. MATCH EXISTING AT SAWCUT.



Transition From Runway
 Finished Grade Elevations

NOTE:
 CONTACT THE DESIGNER TO OBTAIN
 ELECTRONIC TEXT FILES OF POINT DATA.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

Transition From Runway

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
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**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035
 Transition
 From Runway**

PROJECT DESIGNATION NUMBER

AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
F3	48

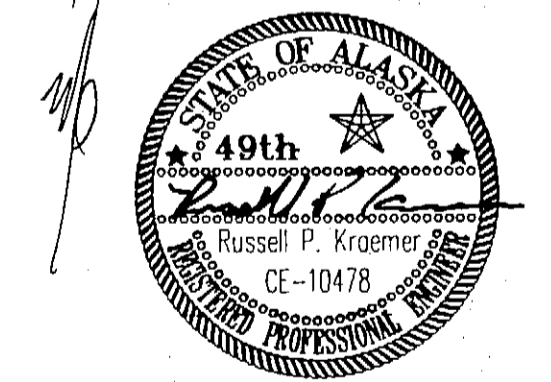
- NOTES:**
1. SEE APRON PAVEMENT MATCH DETAIL THIS SHEET.
 2. SEE SHEET F5 FOR POINT TABLE.
 3. MATCH EXISTING AT SAWCUT.

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

Transition To Apron

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

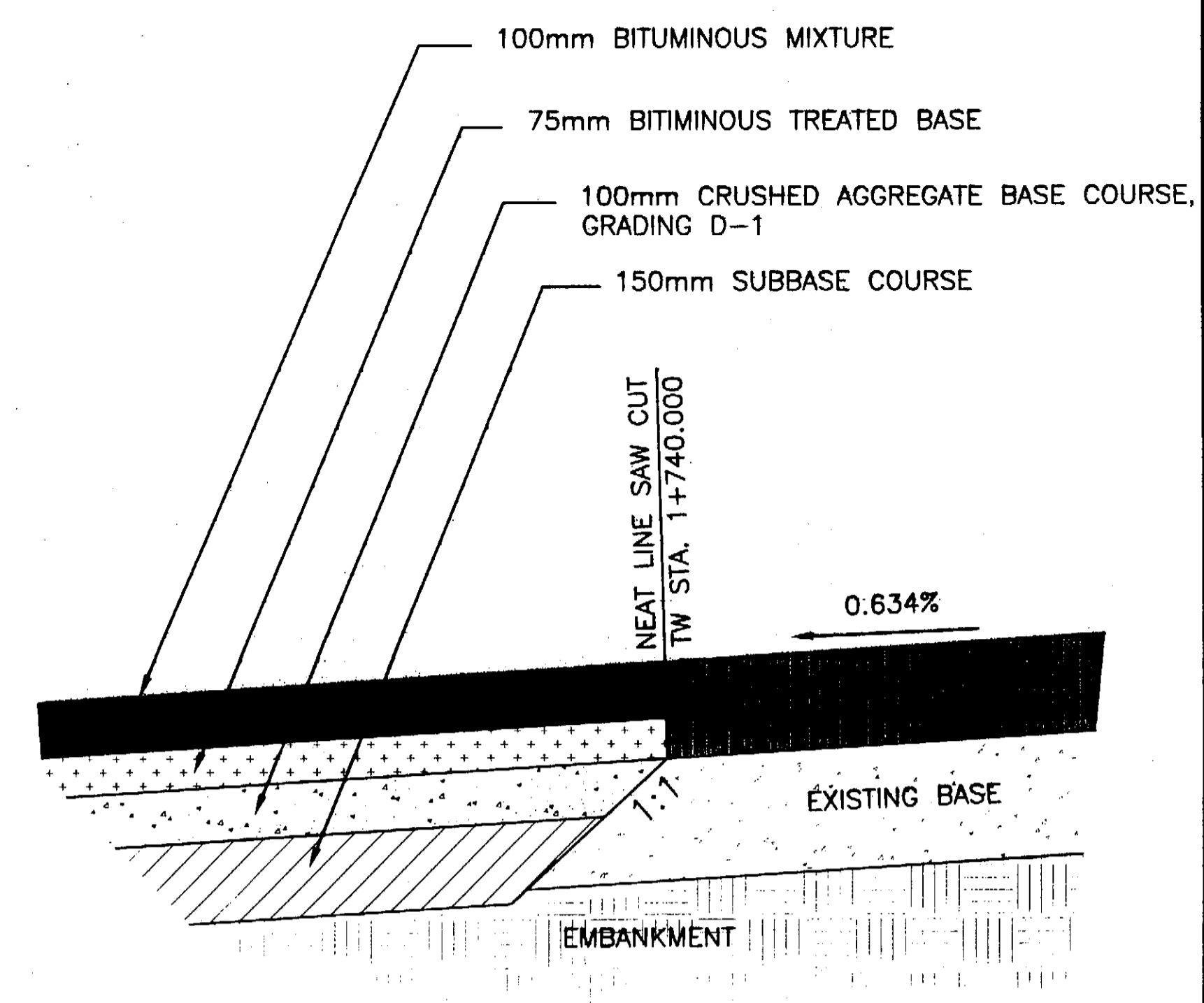
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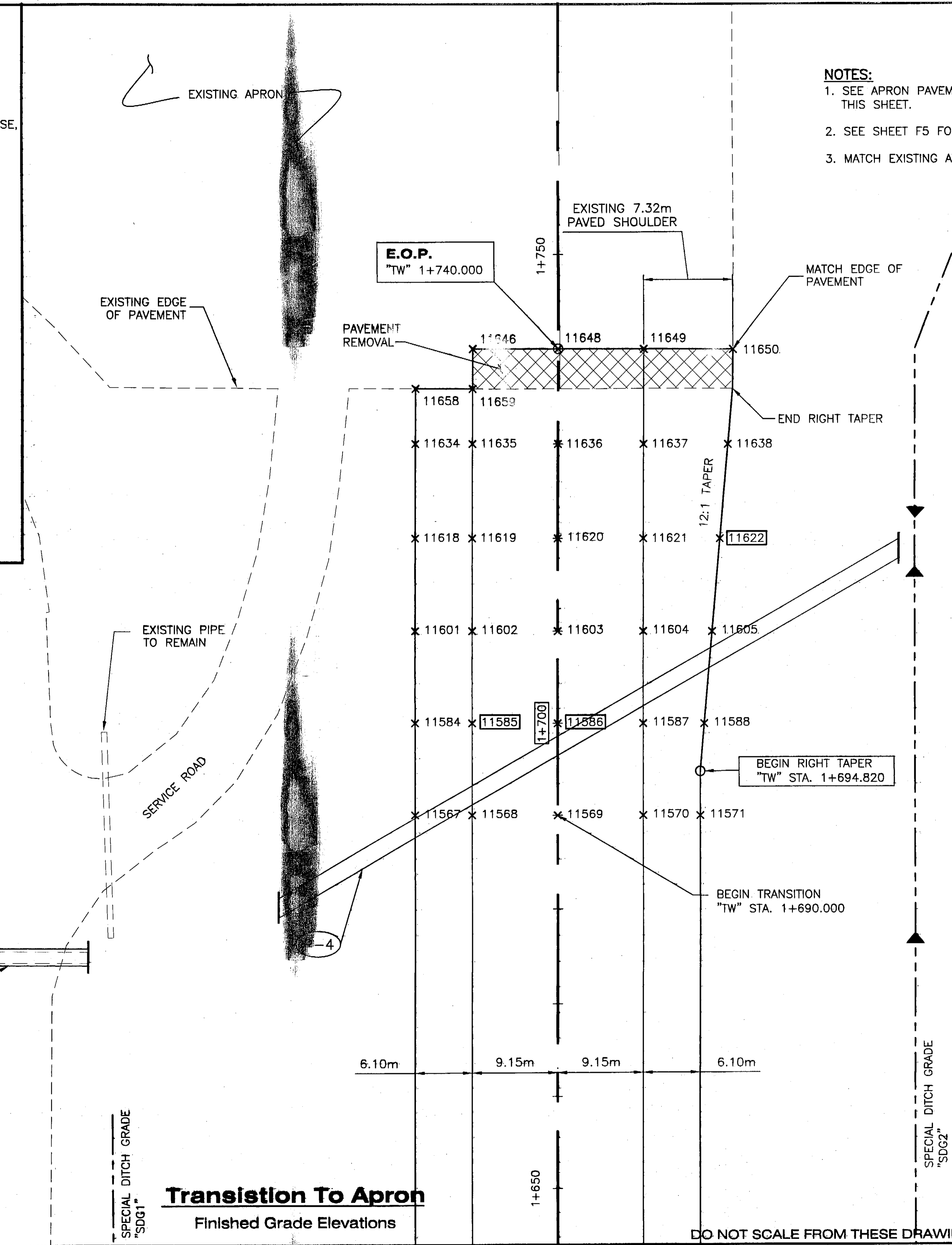
**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035
 Transition
 To Apron**

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
F4	48

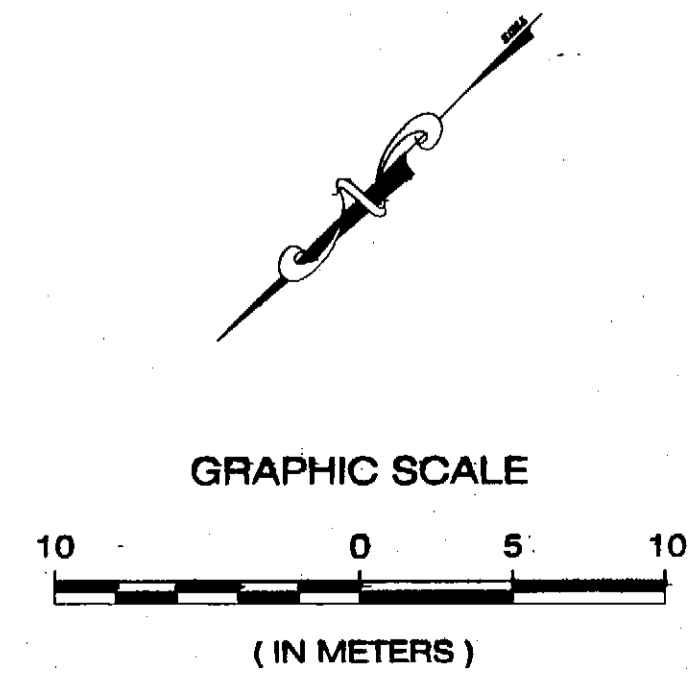


Apron Pavement Match Detail



Transition To Apron
 Finished Grade Elevations

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS



P-5

SPECIAL DITCH GRADE
 "SDG1"

SPECIAL DITCH GRADE
 "SDG2"

NOTE:
CONTACT THE DESIGNER TO OBTAIN
ELECTRONIC TEXT FILES OF POINT DATA.

**Transition From Runway
Finished Grade Elevations**

POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
10003	3724.674	5021.206	26.525	0+780.500	-40.546	FG
10005	3718.352	5027.391	26.586	0+780.500	-31.702	FG
10006	3695.692	5049.562	26.682	0+780.500	0	FG
10007	3672.93	5071.831	26.746	0+780.500	31.844	FG
10008	3666.668	5077.957	26.764	0+780.500	40.604	FG
10016	3724.078	5035.08	26.358	0+790	-30.418	FG
10017	3718.394	5040.641	26.462	0+790	-22.466	FG
10018	3702.335	5056.352	26.554	0+790	0	FG
10019	3686.277	5072.063	26.610	0+790	22.466	FG
10020	3680.593	5077.624	26.480	0+790	30.418	FG
10031	3726.081	5047.11	26.122	0+800	-23.436	FG
10032	3721.281	5051.806	26.305	0+800	-16.721	FG
10033	3709.329	5063.5	26.419	0+800	0	FG
10034	3697.377	5075.194	26.415	0+800	16.721	FG
10035	3692.577	5079.89	26.117	0+800	23.436	FG
10046	3730.568	5056.71	25.947	0+810	-19.93	FG
10047	3726.122	5061.06	26.119	0+810	-13.71	FG
10048	3716.322	5070.648	26.284	0+810	0	FG
10049	3706.523	5080.235	26.142	0+810	13.71	FG
10050	3702.077	5084.585	25.852	0+810	19.93	FG
10061	3736.049	5063.642	25.813	0+818.788	-19.000	FG
10062	3731.689	5067.908	25.975	0+818.788	-12.900	FG
10063	3722.468	5076.929	26.169	0+818.788	0.000	FG
10064	3713.247	5085.951	25.974	0+818.788	12.900	FG
10065	3708.887	5090.217	25.661	0+818.788	19.000	FG
10076	3737.149	5064.789	25.656	0+820	-19.000	FG
10077	3732.705	5068.968	25.961	0+820	-12.900	FG
10078	3723.307	5077.804	26.154	0+820	0.000	FG
10079	3713.909	5086.641	25.961	0+820	12.900	FG
10080	3709.464	5090.819	25.656	0+820	19.000	FG

**Transition To Apron
Finished Grade Elevations**

POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
11567	3192.760	5730.912	13.416	1+690	-15.250	FG
11568	3188.494	5726.552	13.728	1+690	-9.150	FG
11569	3182.095	5720.011	13.858	1+690	0.000	FG
11570	3175.696	5713.471	13.721	1+690	9.150	FG
11571	3171.430	5709.111	13.416	1+690	15.250	FG
11584	3185.612	5737.905	13.358	1+700	-15.250	FG
11585	3181.346	5733.545	13.595	1+700	-9.150	FG
11586	3174.947	5727.005	13.733	1+700	0.000	FG
11587	3168.548	5720.464	13.595	1+700	9.150	FG
11588	3163.290	5715.796	13.269	1+700	15.682	FG
11601	3178.464	5744.899	13.318	1+710	-15.250	FG
11602	3174.198	5740.538	13.503	1+710	-9.150	FG
11603	3167.409	5733.998	13.640	1+710	0.000	FG
11604	3161.400	5727.458	13.503	1+710	9.150	FG
11605	3156.290	5722.193	13.142	1+710	16.515	FG
11618	3171.316	5751.898	13.311	1+720	-15.250	FG
11619	3167.050	5747.538	13.443	1+720	-9.150	FG
11620	3160.651	5740.991	13.580	1+720	0.000	FG
11621	3154.252	5734.451	13.433	1+720	9.150	FG
11622	3148.519	5728.591	13.076	1+720	17.348	FG
11634	3164.168	5758.885	13.342	1+730	-15.250	FG
11635	3159.902	5754.525	13.459	1+730	-9.150	FG
11636	3153.503	5747.985	13.553	1+730	0.000	FG
11637	3147.104	5741.445	13.373	1+730	9.150	FG
11638	3140.788	5734.989	13.063	1+730	18.182	FG
11646	3152.754	5761.519	13.488	1+740	-9.150	FG
11648	3146.356	5754.978	13.546	1+740	0.000	FG
11649	3139.957	5748.438	13.401	1+740	9.150	FG
11650	3133.284	5741.618	13.098	1+740	18.691	FG
11658	3160.008	5762.956	13.370	1+735.821	-15.250	FG
11659	3155.747	5758.591	13.415	1+735.814	-9.150	FG

PATH:
Q:\Ktn\68035\PlanSet\F_TransitionDets.dwg
Tue, 18/Jun/02 09:46AM Michael Limbaugh
PLOT:
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ADDENDUM NUMBER

ATTACHMENT NUMBER

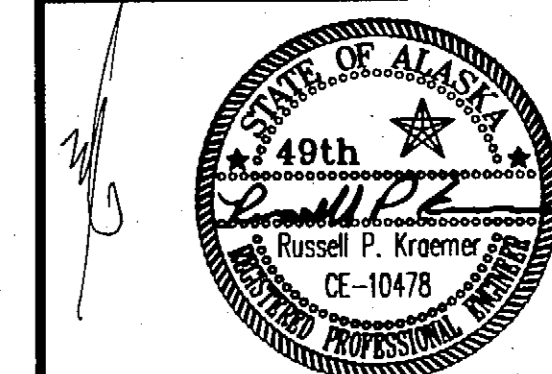
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

Transition Point Tables

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

**KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035
Transition
Point Tables**

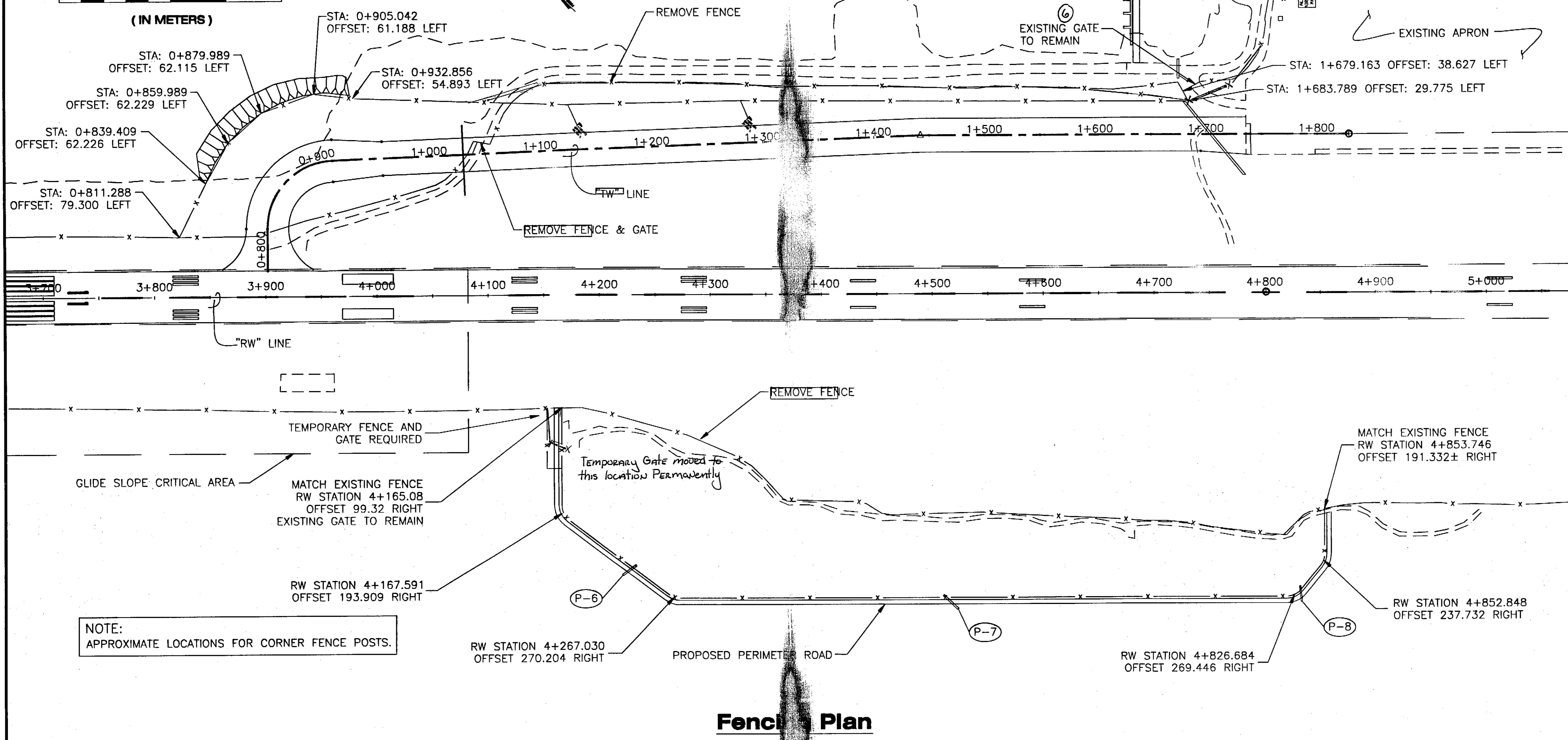
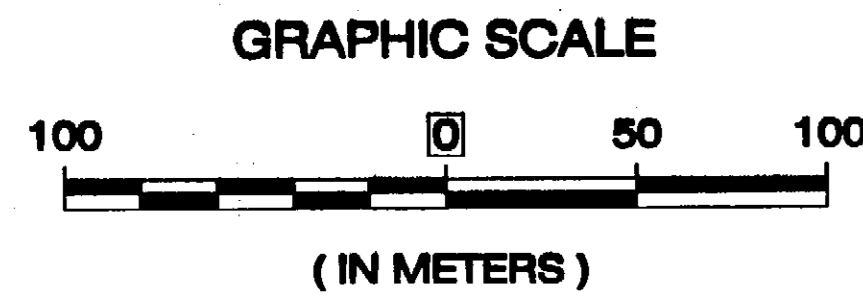
PROJECT DESIGNATION NUMBER

AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
F5	48

Tongass Narrows

PATH: O:\KIN\68035\PlanSet\F_FencePlan.dwg
 Tue, 18/Jun/02 09:44AM Michael Limbaugh
 PLOT:
 PSPACE 1=1(F) OR MSPACE 1=1(F)



NOTE:
 APPROXIMATE LOCATIONS FOR CORNER FENCE POSTS.

Fencing Plan

Notes:

1. REMOVE EXISTING FENCE AND GATE BETWEEN "TW" STA. 0+811.30, OFFSET 79.30m LEFT AND "TW" STA. 1+112.20, OFFSET 61.00m LEFT.
2. REMOVE EXISTING FENCE IN THE AREA OF THE QUARRY AS REQUIRED.
3. INSTALL NEW CHAIN LINK FENCE AS SHOWN. (SEE FENCE DETAILS).
4. TEMPORARY CHAIN LINK FENCE MUST BE PLACED TO ENSURE AIRPORT SECURITY DURING CONSTRUCTION. TEMPORARY FENCE MUST MEET THE SAME DIMENSIONAL STANDARDS AND SPECIFICATIONS AS THE PERMANENT FENCE, EXCEPT CONCRETE FOOTINGS WILL NOT BE REQUIRED.
5. PERMANENT CHAIN LINK FENCE MAY BE INSTALLED ON THE QUARRY SIDE OF THE RUNWAY BEFORE EXCAVATION BEGINS. NEW PERIMETER ROAD MUST BE COMPLETED BEFORE INSTALLATION OF NEW FENCE.
6. Ketchikan Gateway Borough add a new ramp access gate

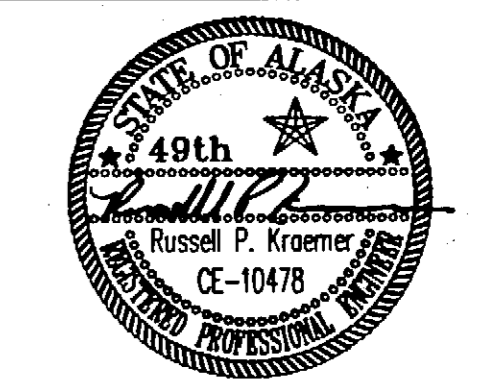
Legend



ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035**
Fencing Plan

DESIGNED BY: R. KRAEMER



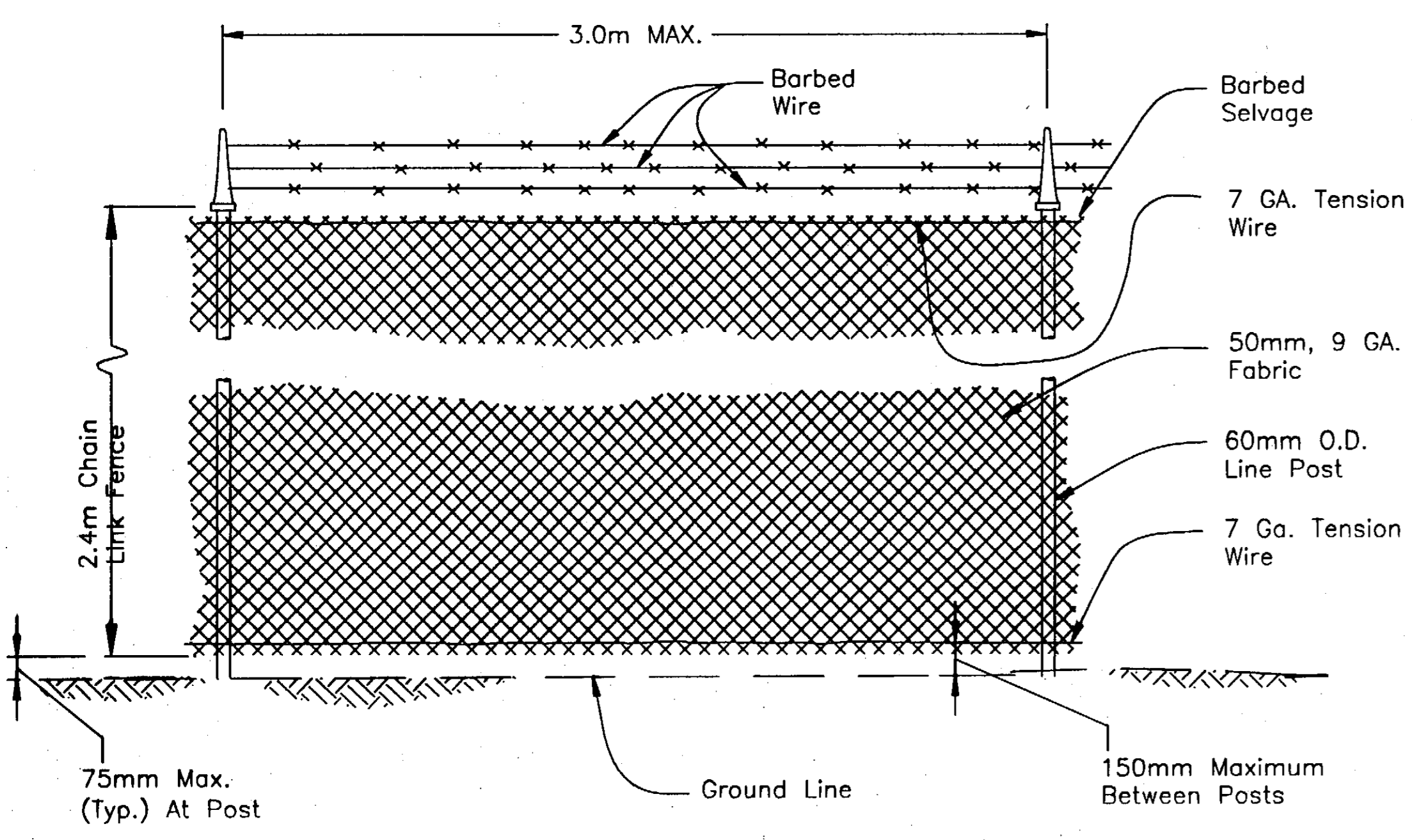
CHECKED BY: VICTOR M. WINTERS
 DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035**
Fencing
 Plan

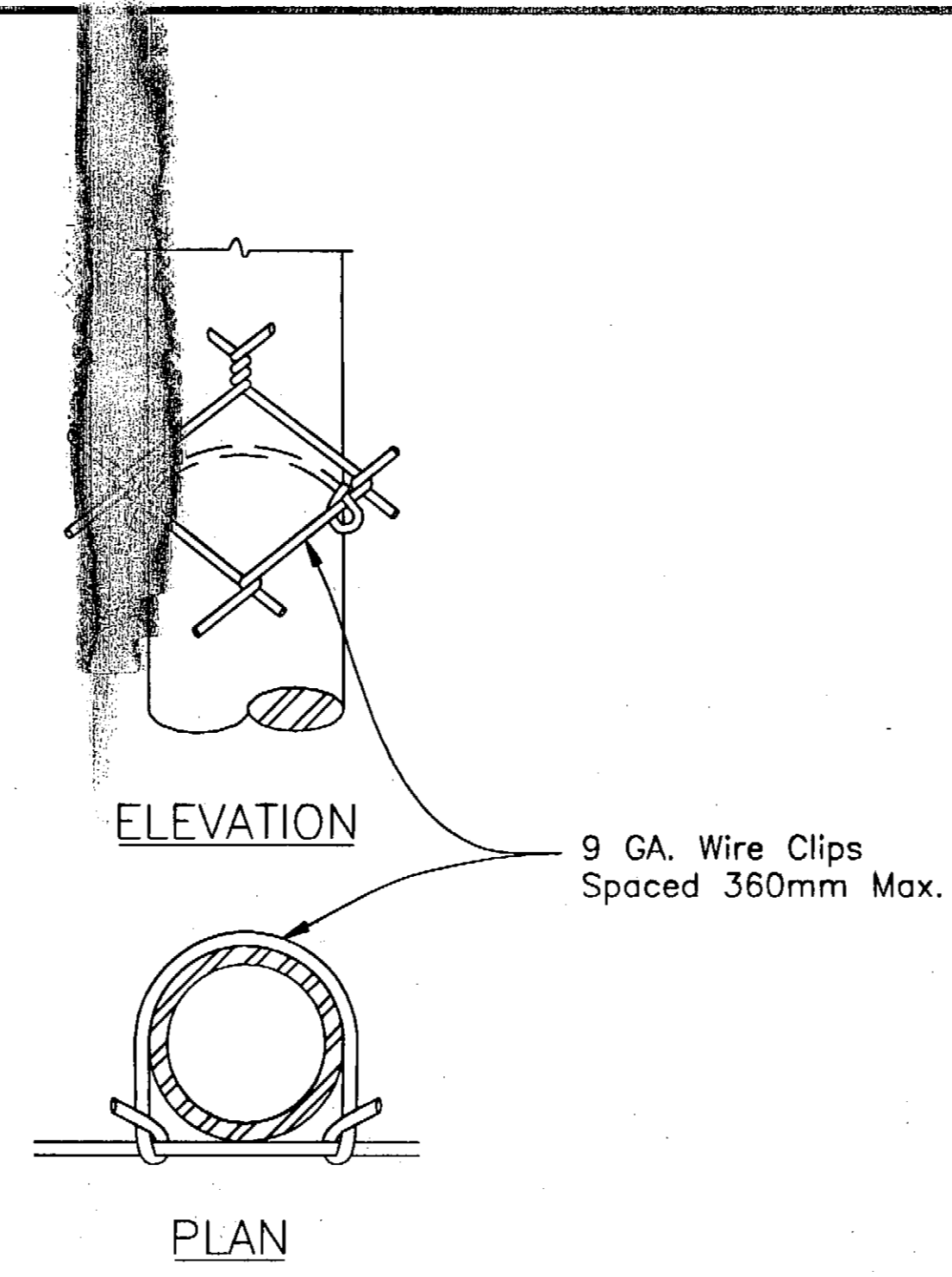
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STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
F6	48

ADDENDUM NUMBER
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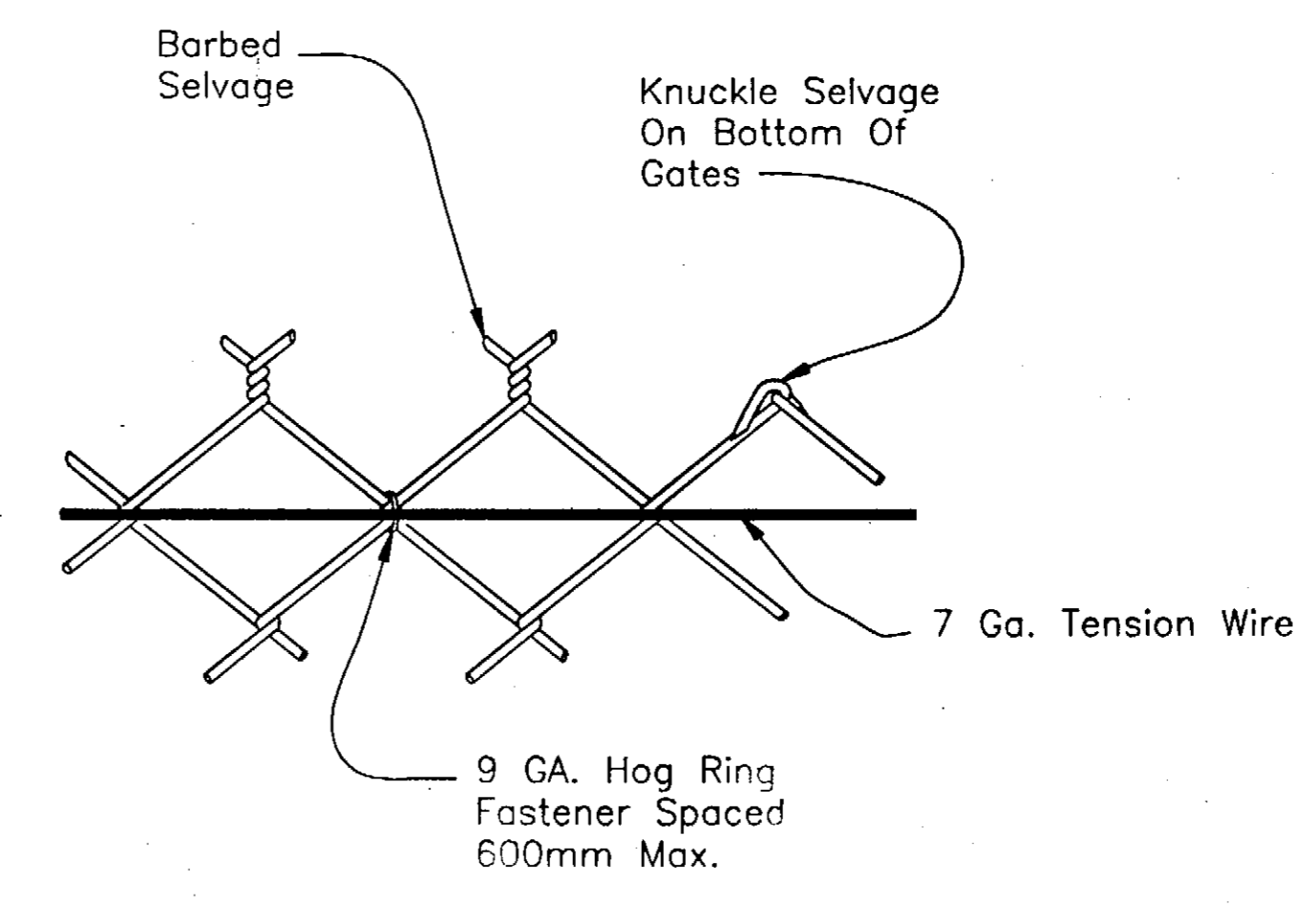
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No.	DATE	DESCRIPTION



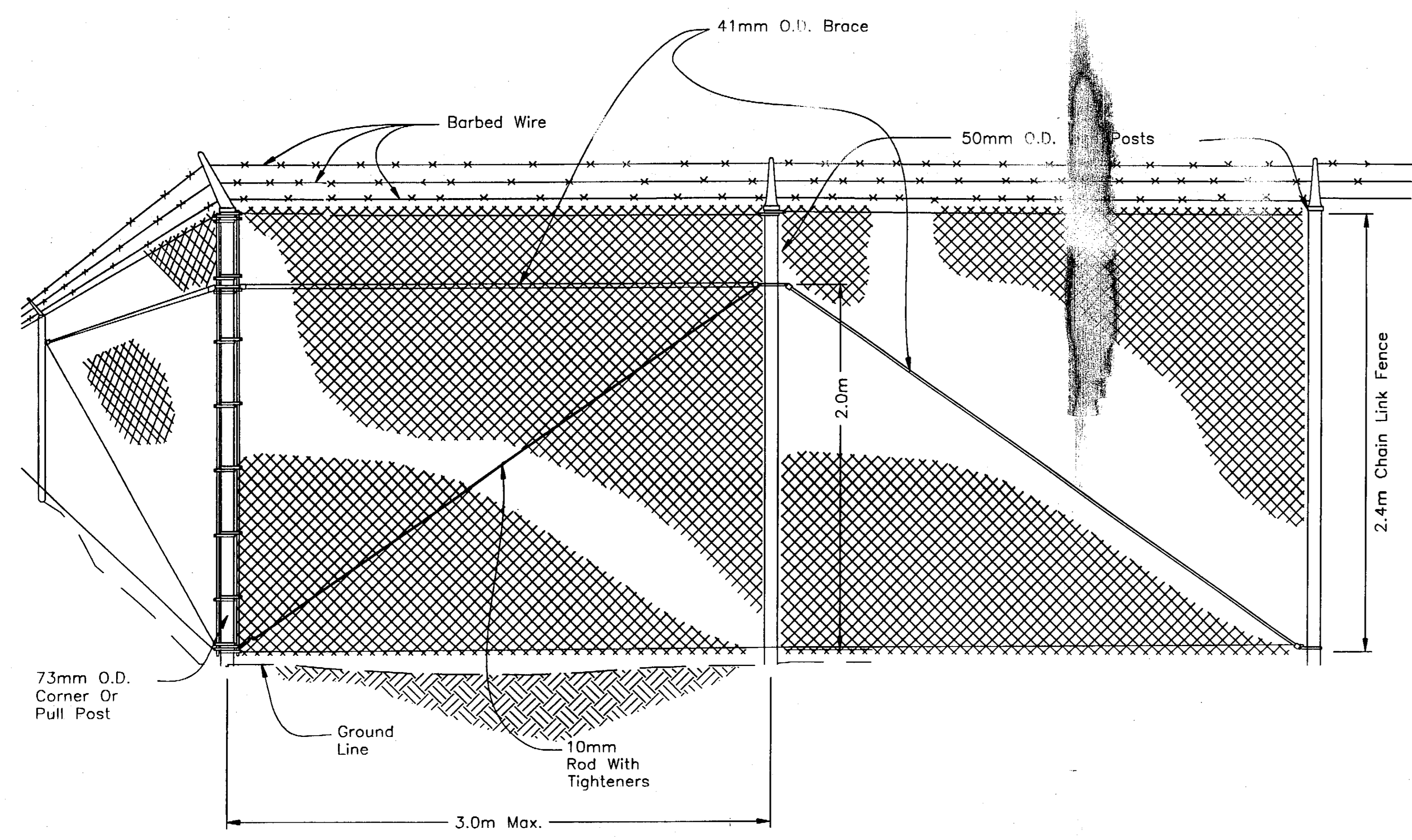
Typical Fence Elevation



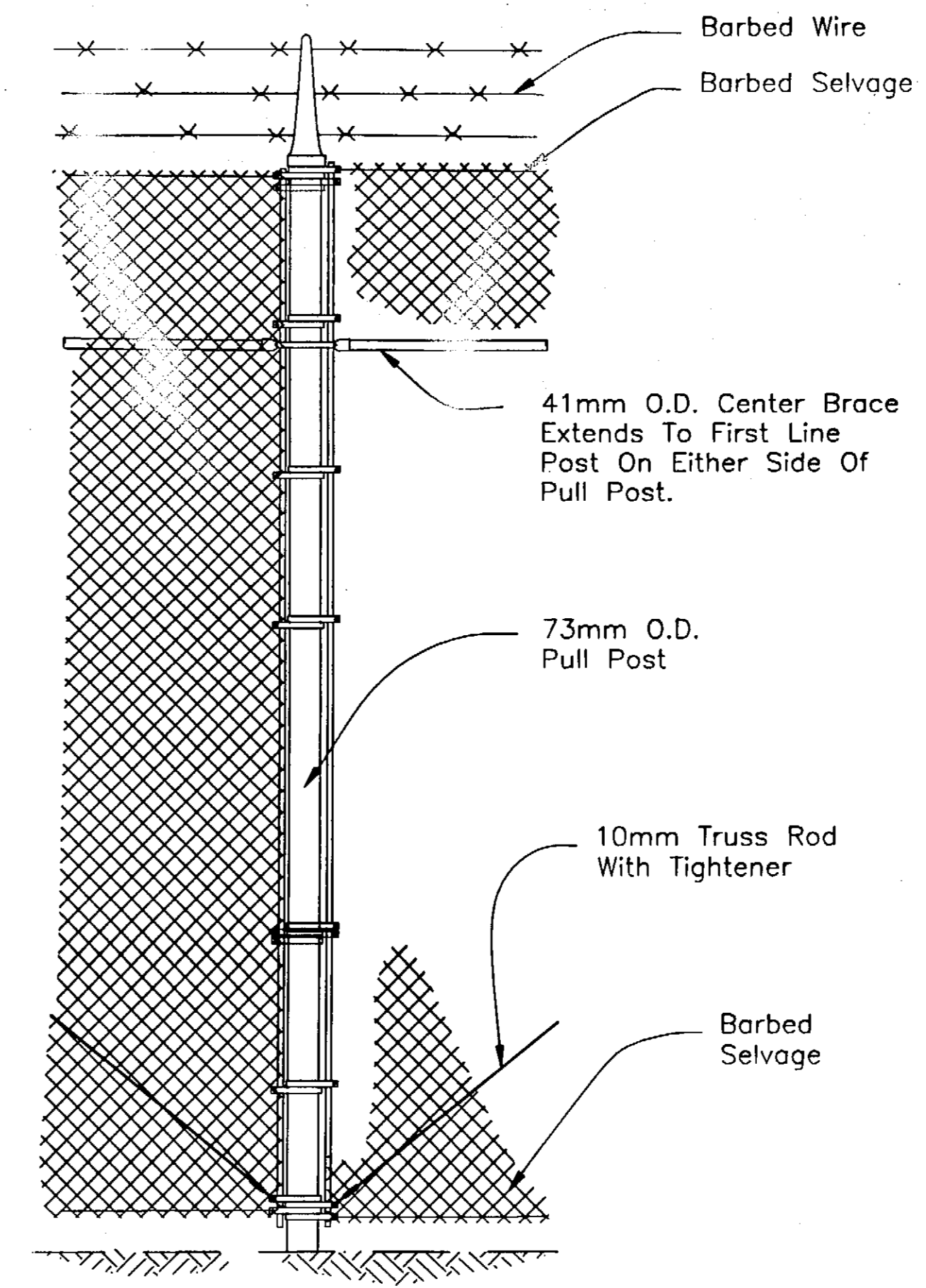
Typical Connection Fabric To Line Posts



Typical Connection Fabric To Tension Wire



Typical Corner Terminal



Typical Pull Post Detail

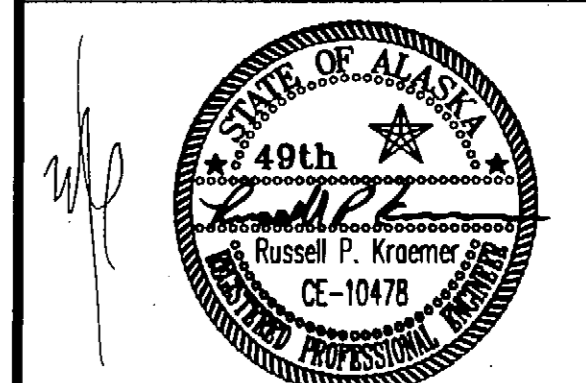
NOTE:
 FOR POST EMBEDMENT DETAILS SEE SHEET FB.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

Fencing Details

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
 KETCHIKAN AIRPORT
 WEST TAXIWAY
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 PROJECT NO. 68035

Fencing Details

PROJECT DESIGNATION NUMBER
 AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
F7	48

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035
Fencing Details

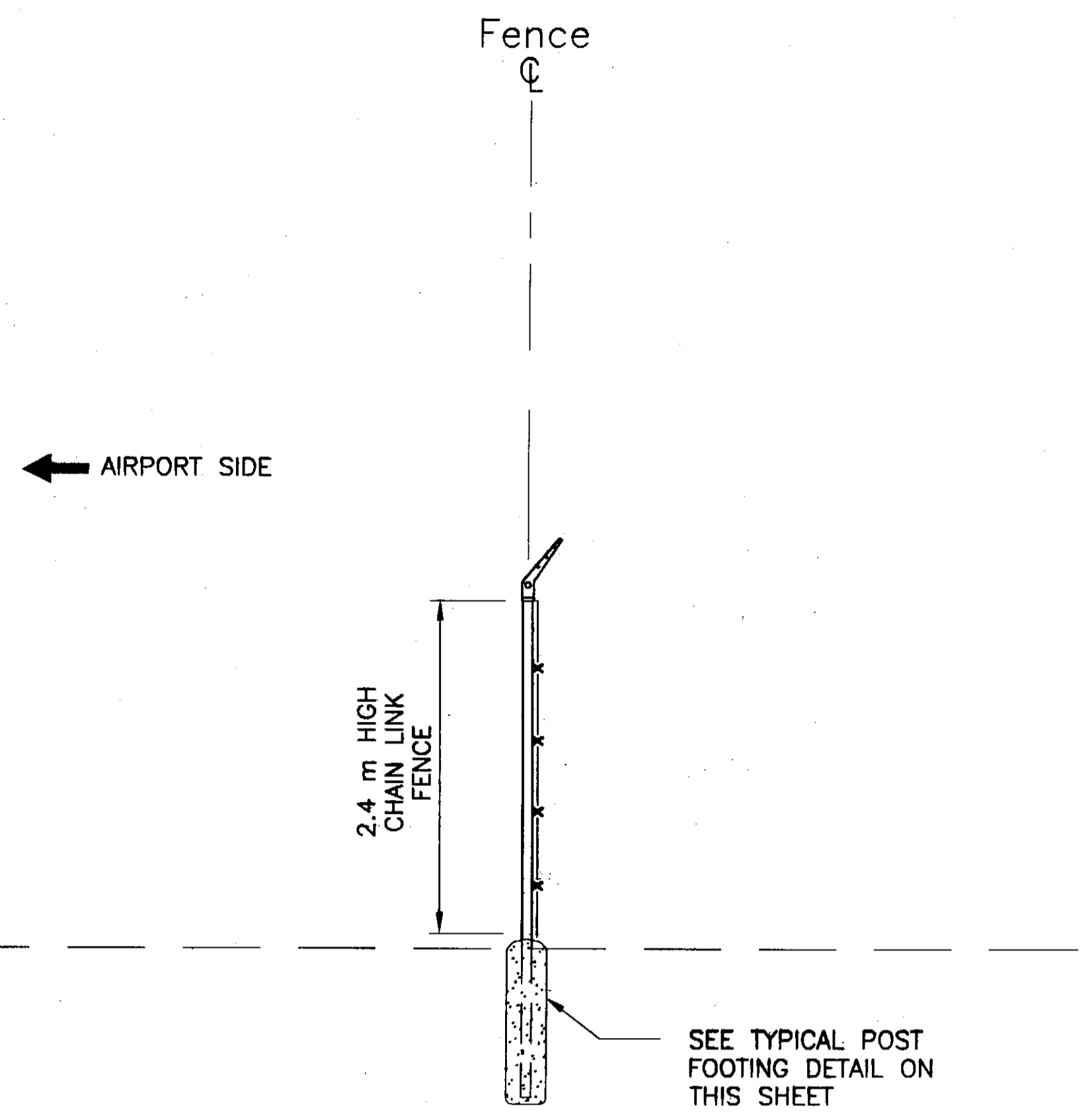
Fence Notes:

1. FOOTINGS SHALL BEAR ON MINERAL SOILS OR ON BEDROCK.
2. EACH POST FOOTING SHALL CONFORM TO SHOT ROCK EMBANKMENT. THE MINIMUM QUANTITY OF CONCRETE SHALL MEET NEAT LINE DIMENSIONS GIVEN.

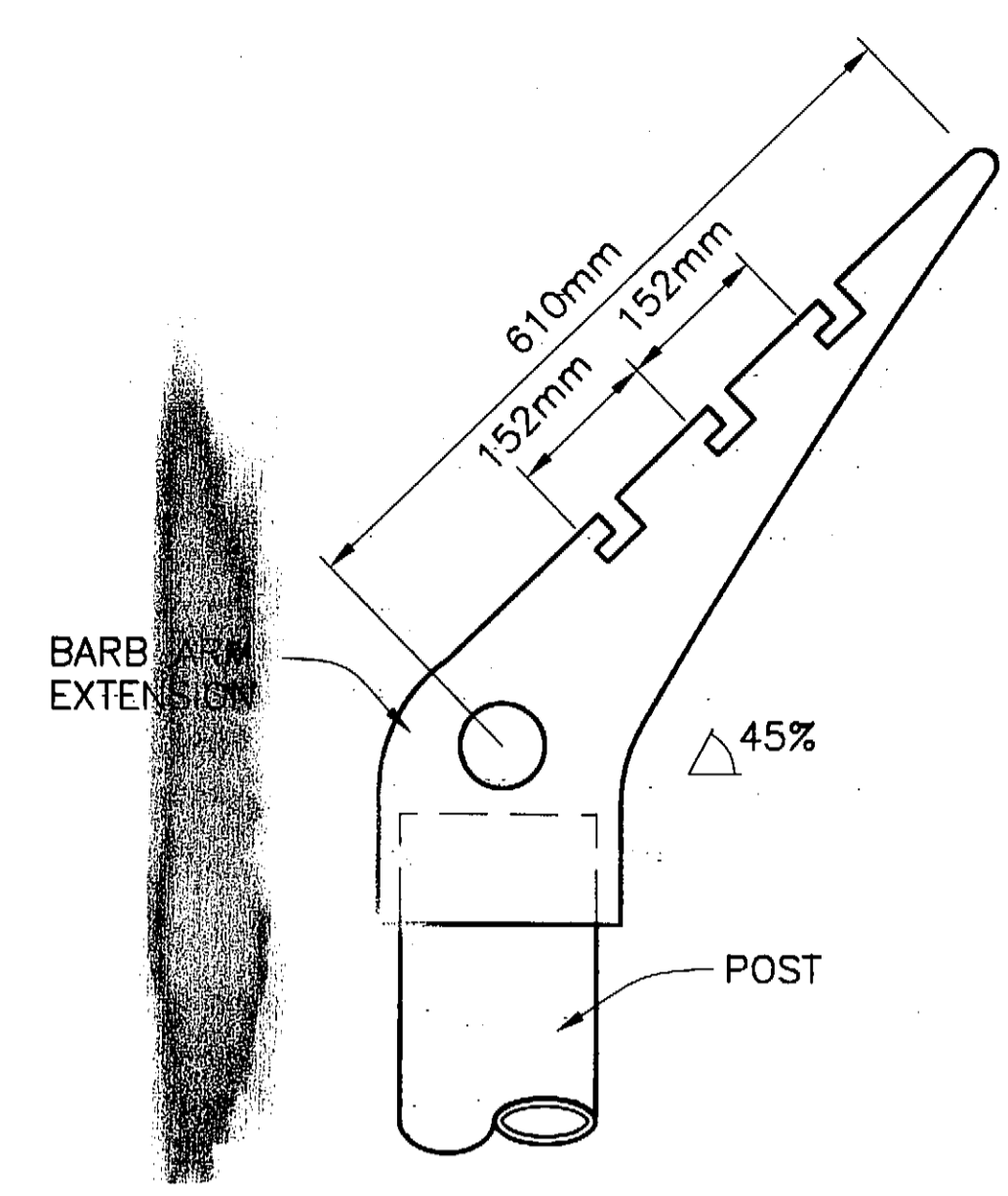
Footing Dimensions				
POST (O.D.)	D	H*	S	MINIMUM VOLUME
60 mm	305 mm	965 mm	50 mm	0.071 cu. m
73 mm	510 mm	965 mm	50 mm	0.197 cu. m
168 mm	510 mm	1525 mm	150 mm	0.312 cu. m

*MINIMUM DIMENSION

Post Size Summary		
GATE POST (O.D.)	LINE POST (O.D.)	PULL POST, CORNER POST (O.D.)
168 mm	60 mm	73 mm

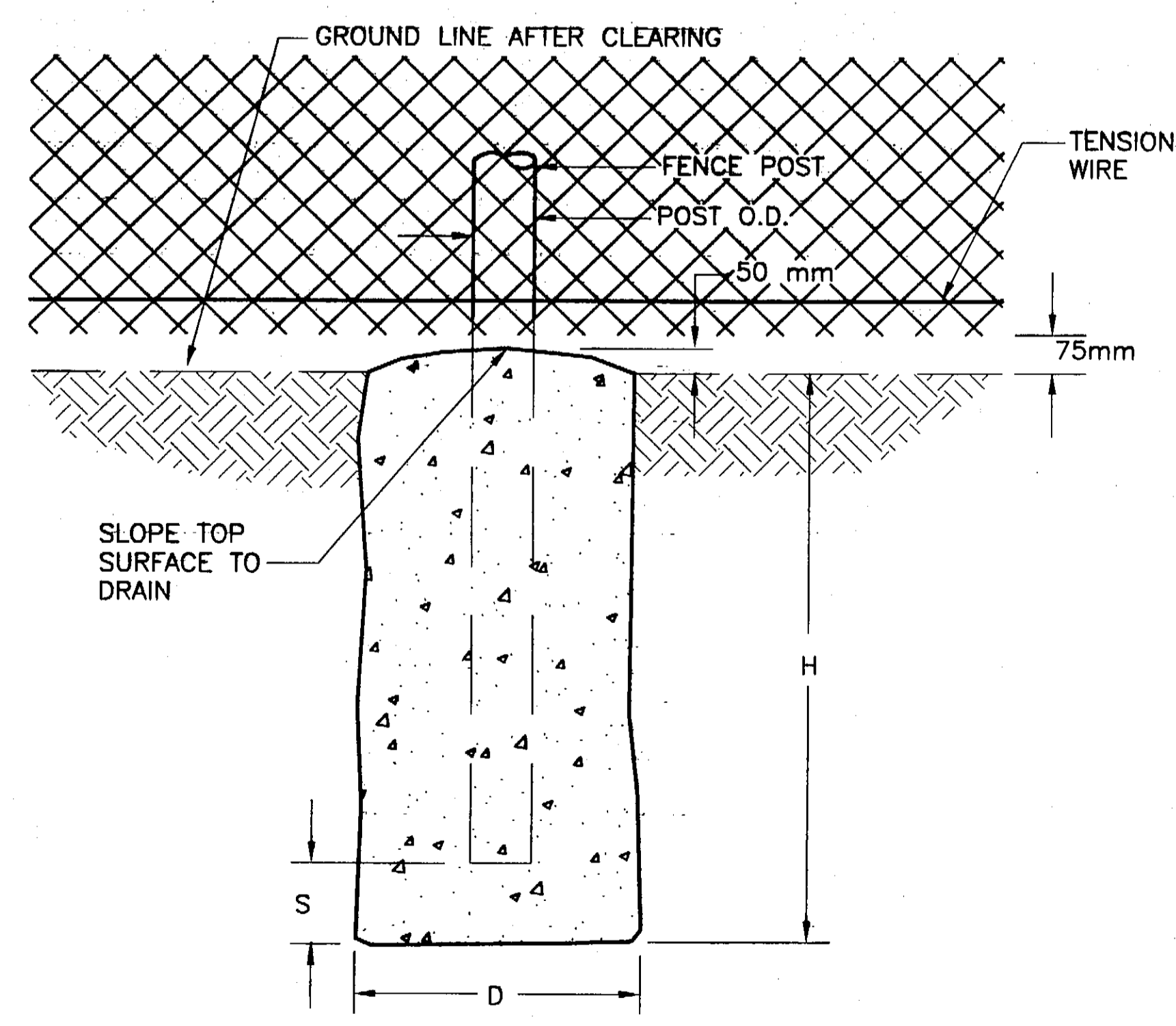


Typical Fence Section



NOTE:
 TYPICAL TOP FOR ALL LINE AND PULL POSTS.

Typical Eye-Top Barb-Top Extension



Typical Post Footing Detail

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

DESIGNED BY: R. KRAEMER

CHECKED BY: VICTOR M. WINTERS
 DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
KETCHIKAN AIRPORT WEST TAXIWAY CONSTRUCTION PROJECT NO. 68035
Fencing Details

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

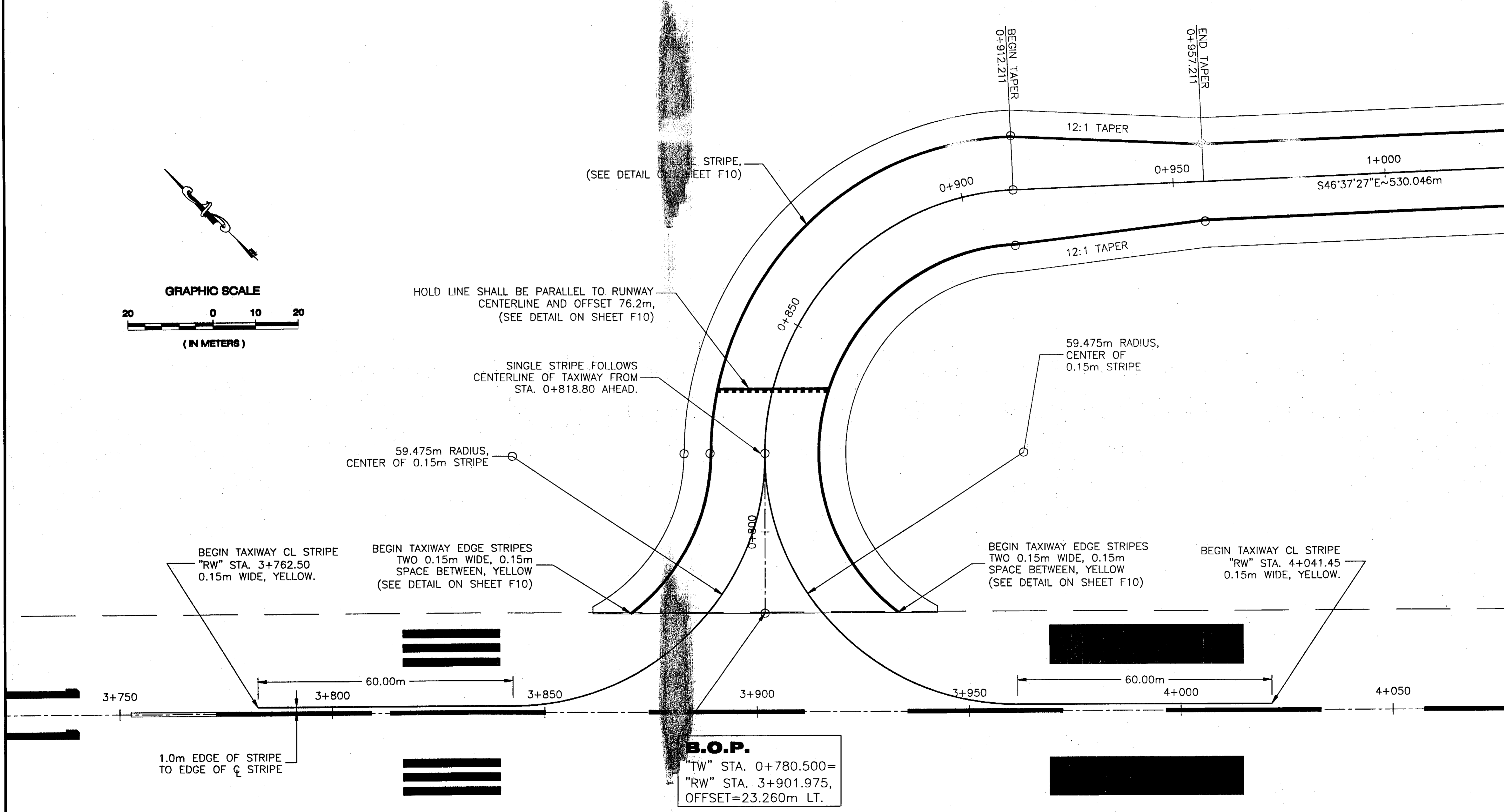
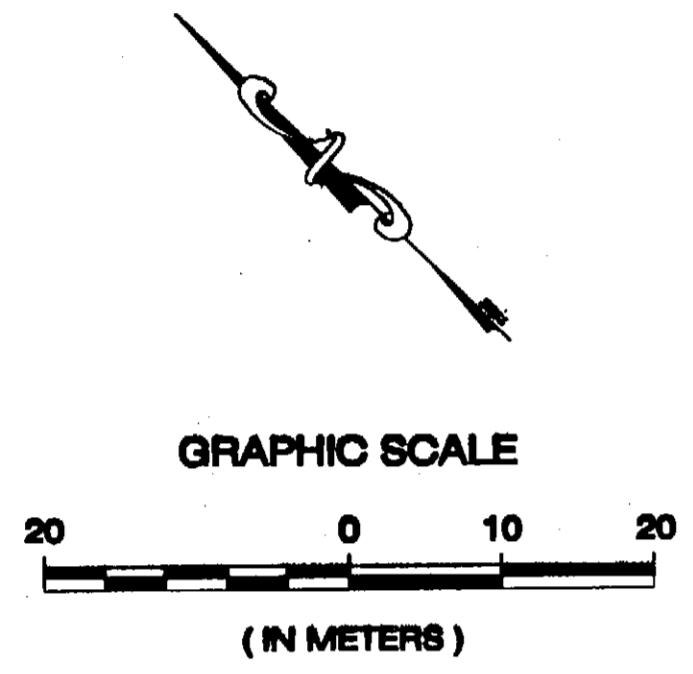
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
F8	48

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035**

**Taxiway/Runway
 Intersection Striping Plan**

NOTE:
 ALL MARKINGS SHALL HAVE REFLECTIVE MEDIA APPLIED
 MEETING THE REQUIREMENTS OF SECTION P-620.



B.O.P.
 "TW" STA. 0+780.500=
 "RW" STA. 3+901.975,
 OFFSET=23.260m LT.

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION

**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035
 Intersection
 Striping Plan**

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
F9	48

**Taxiway / Runway
 Intersection Striping Detail**

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

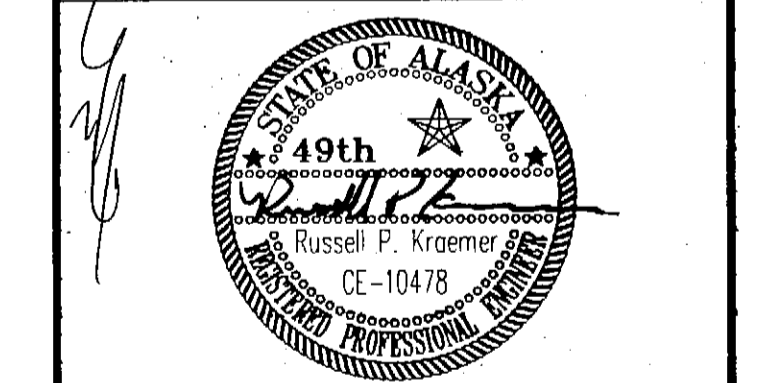
ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

Striping Details

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION

**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035**

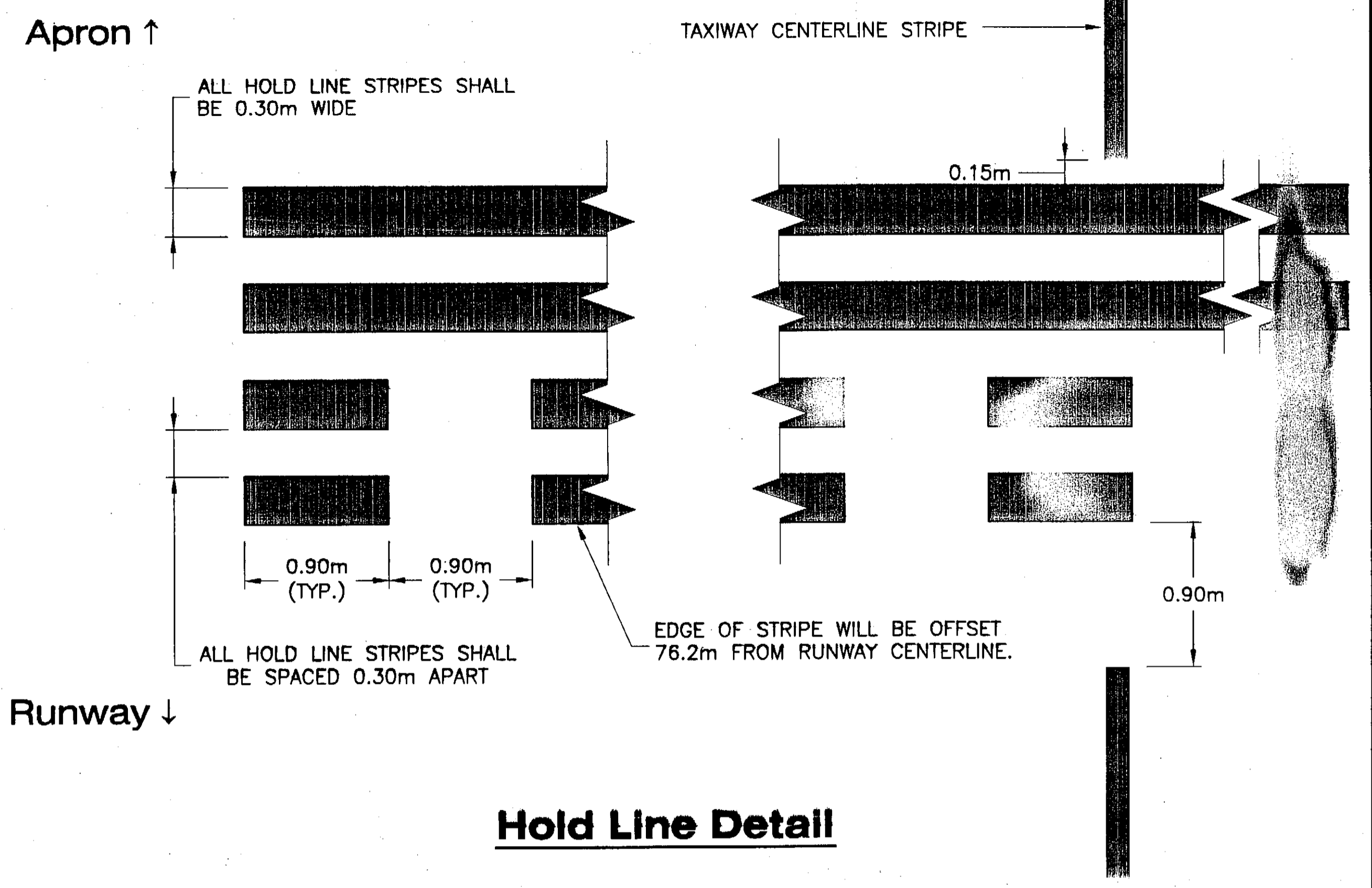
**Striping
 Details**

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

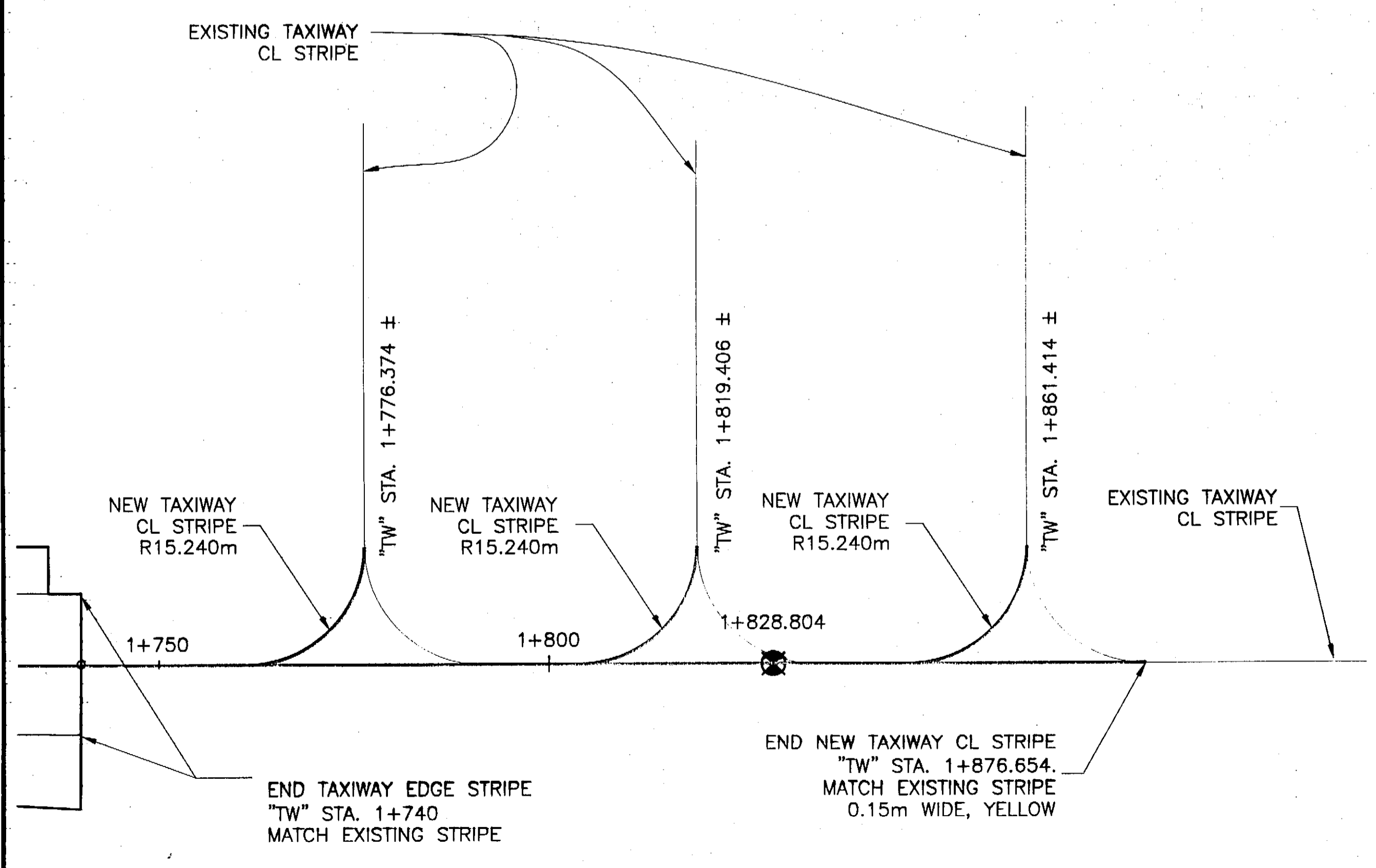
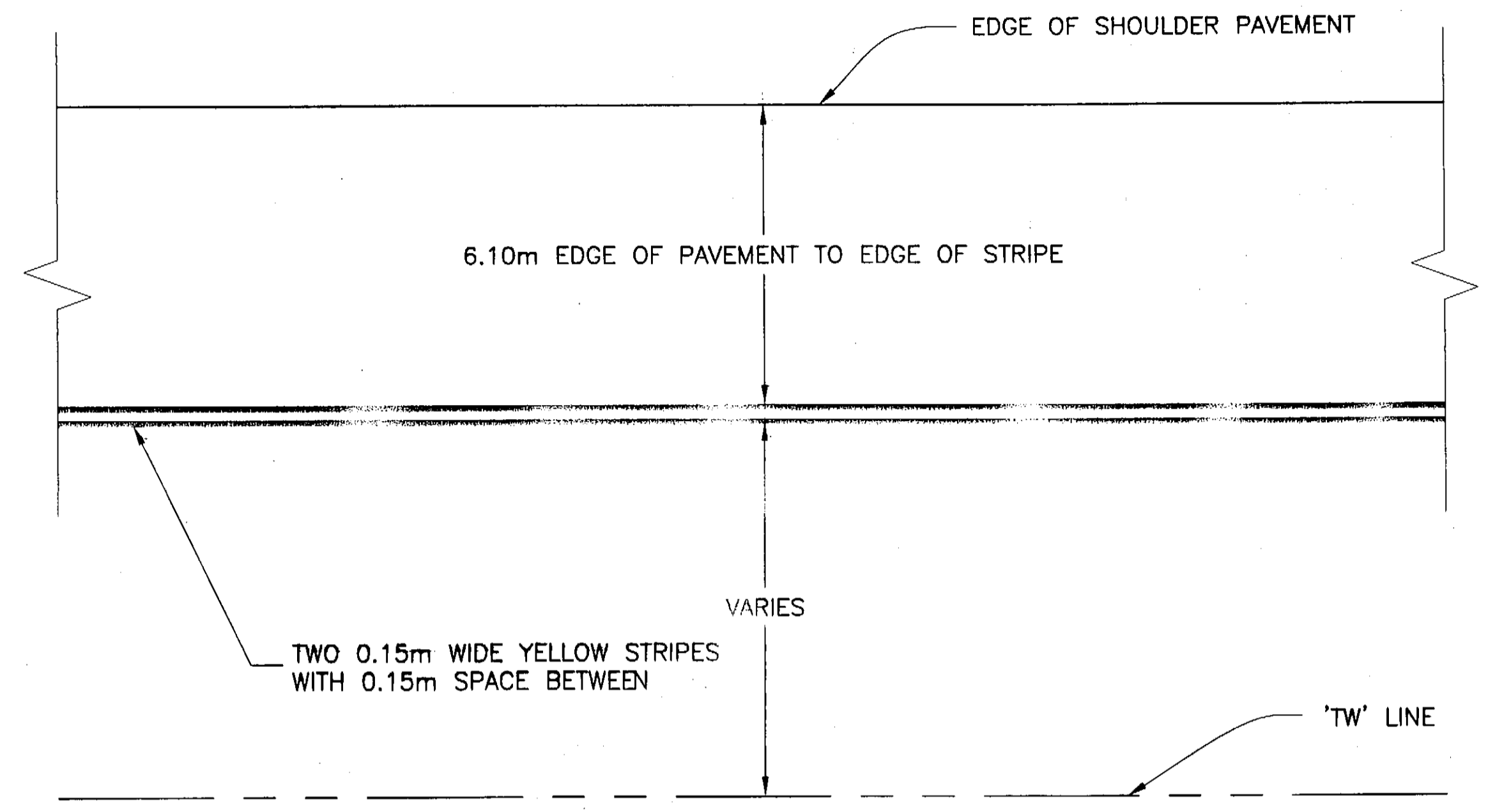
STATE	YEAR
ALASKA	2002

SHEET NUMBER	TOTAL SHEETS
F10	48

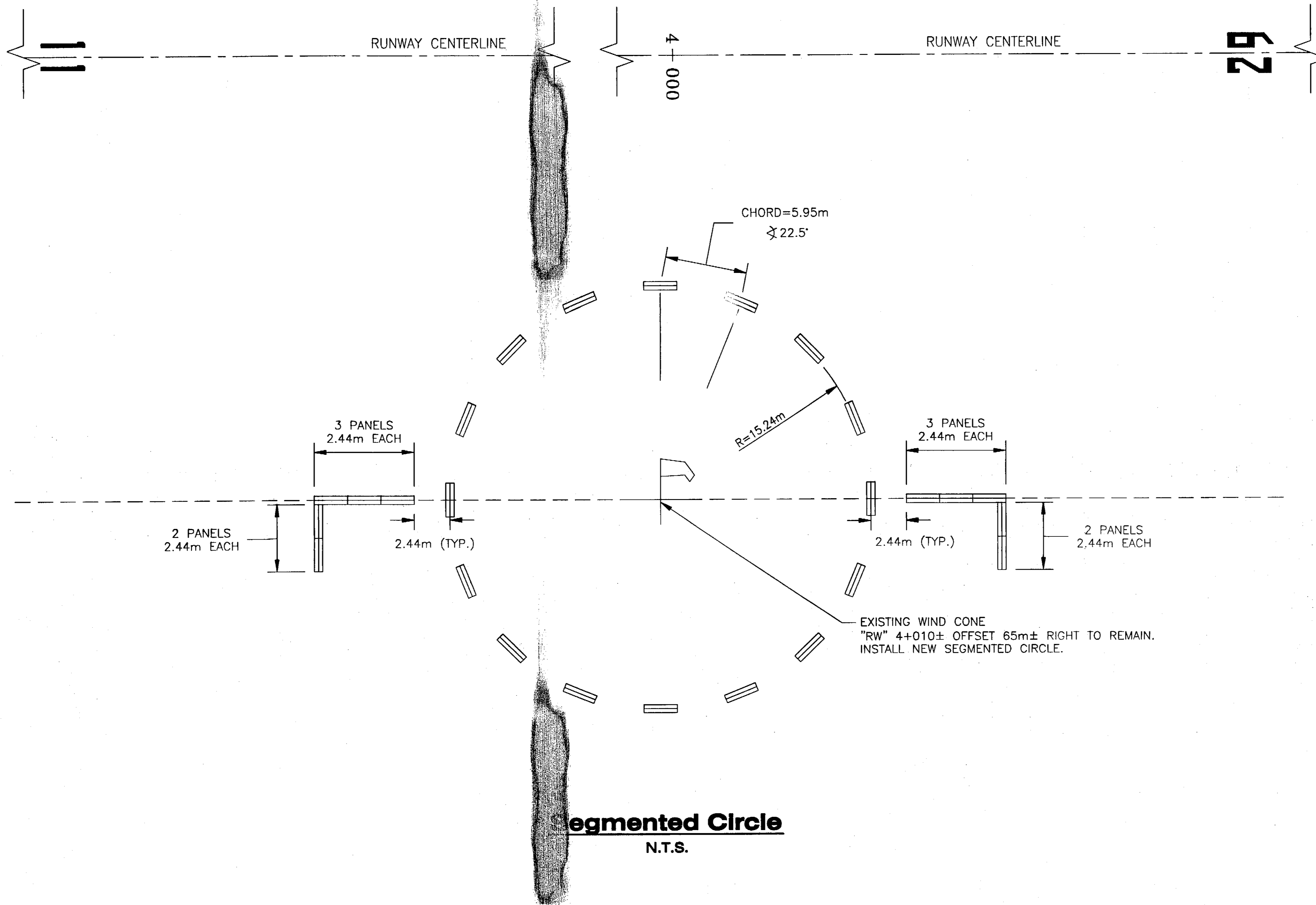
NOTE:
 ALL STRIPES WILL BE YELLOW.



NOTE:
 EDGE STRIPES WILL BE PAINTED ON FULL DEPTH PAVEMENT SECTION.



DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

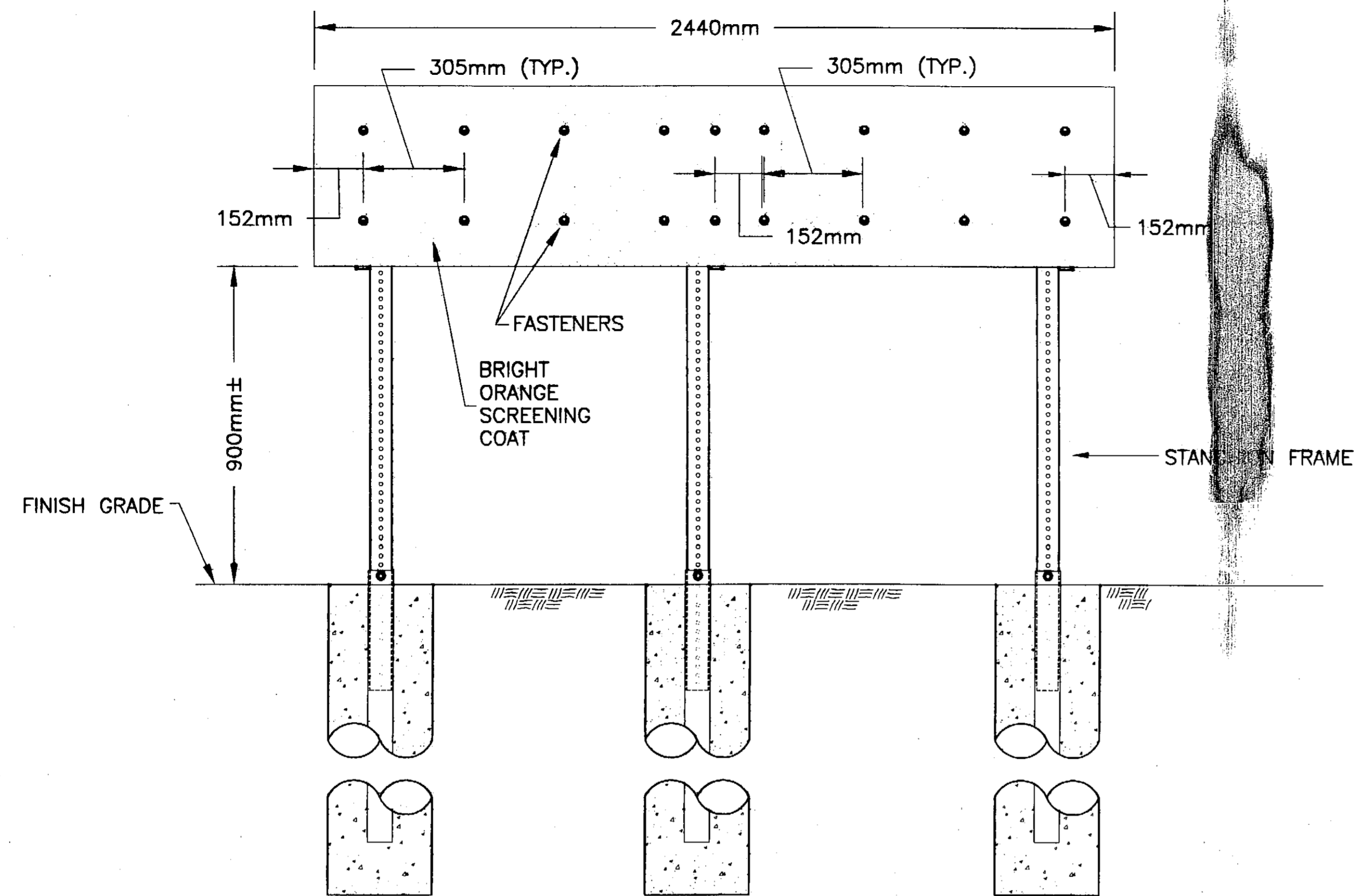


Segmented Circle
N.T.S.

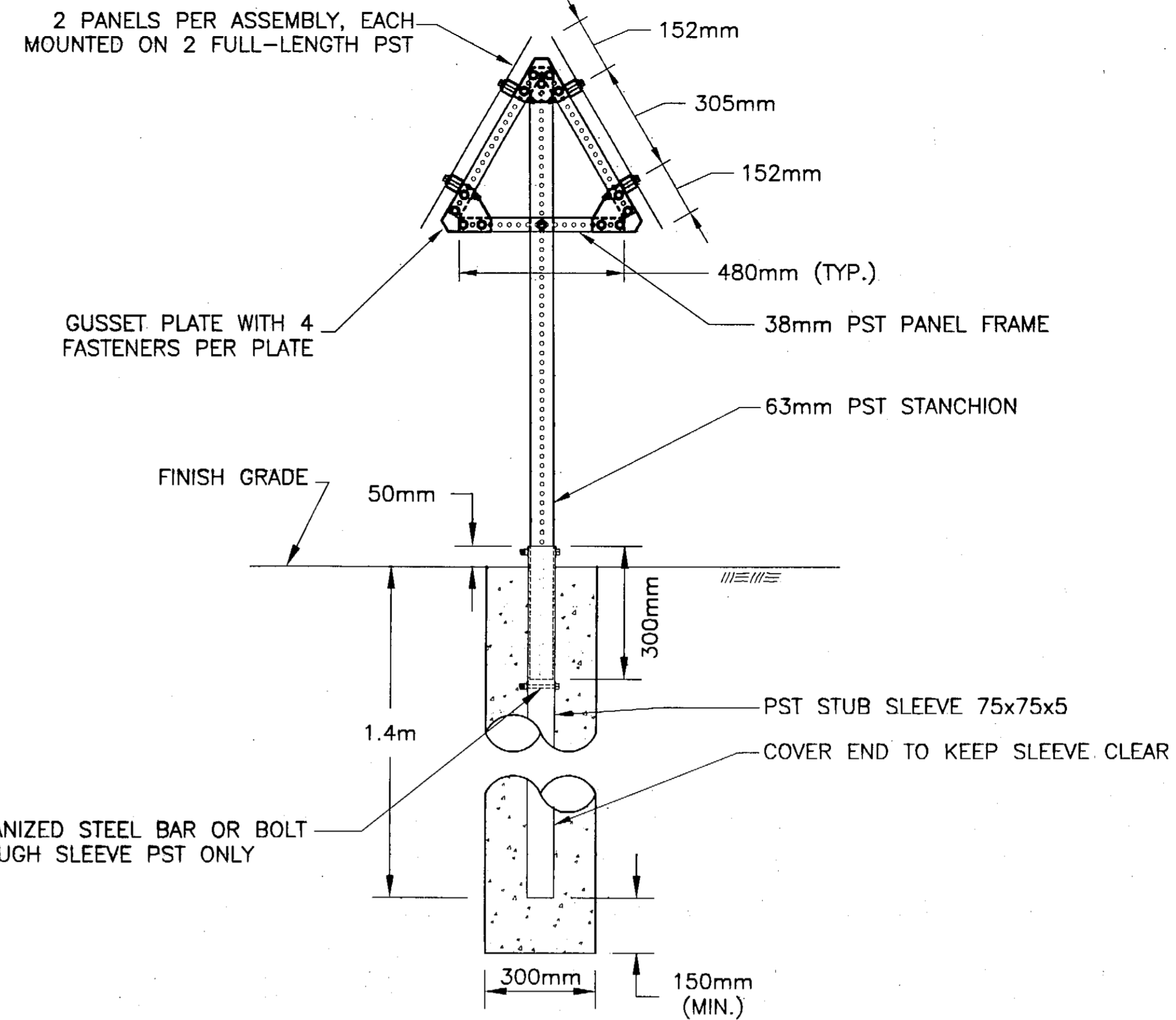
DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION KETCHIKAN AIRPORT WEST TAXIWAY CONSTRUCTION PROJECT NO. 68035			
	Segmented Circle Layout Plan			
DESIGNED BY: RUSSELL KRAEMER		CHECKED BY: VICTOR M. WINTERS		
DRAWN BY: M.L./R.S.		PROJECT PATH: Q:\Ktn\68035\Planset\F_SegCircleDets.dwg		

REVISIONS		PROJECT DESIGNATION AIP NO.	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE DESCRIPTION				
		3-02-0144-1402	2002	F11	48



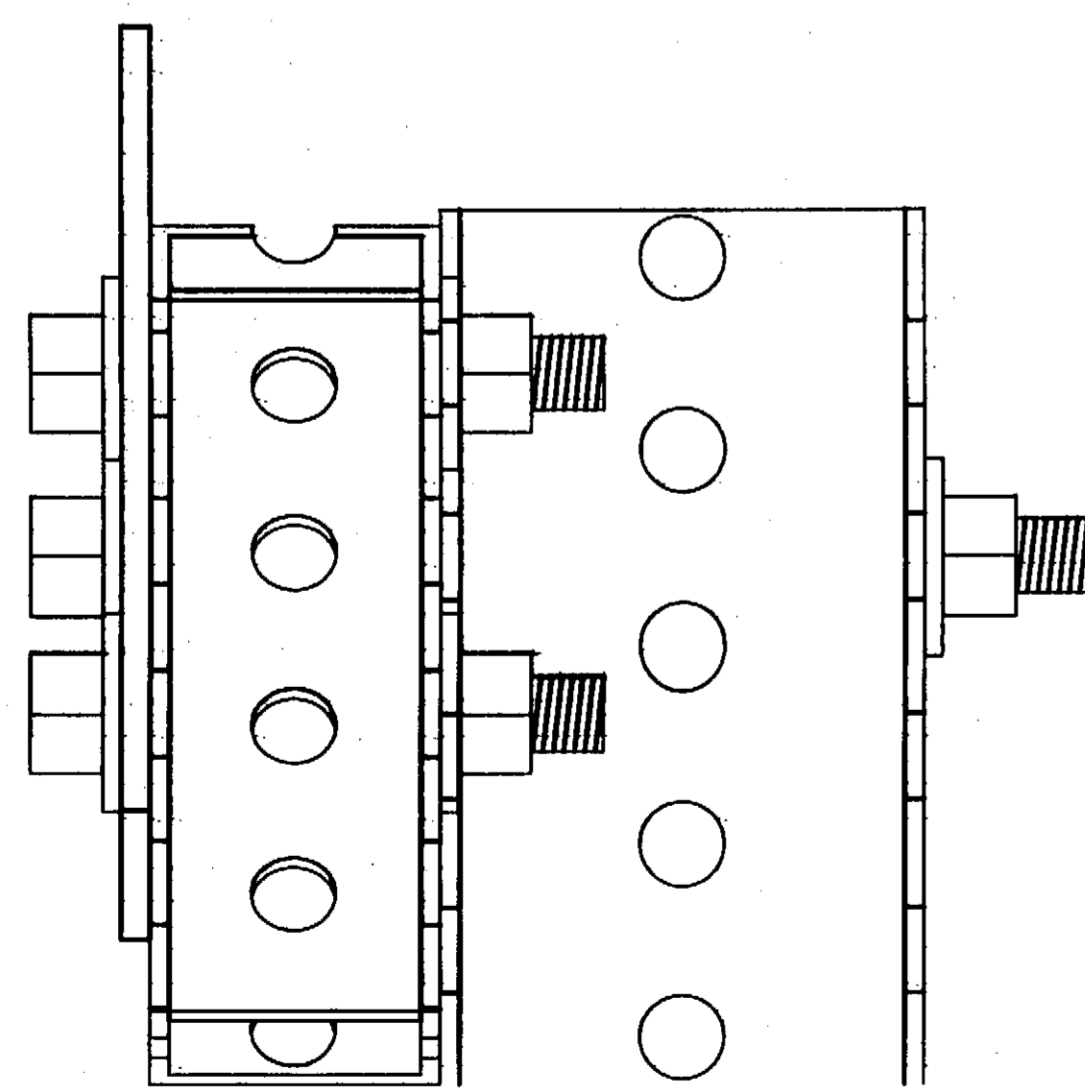
FRONT VIEW DETAIL



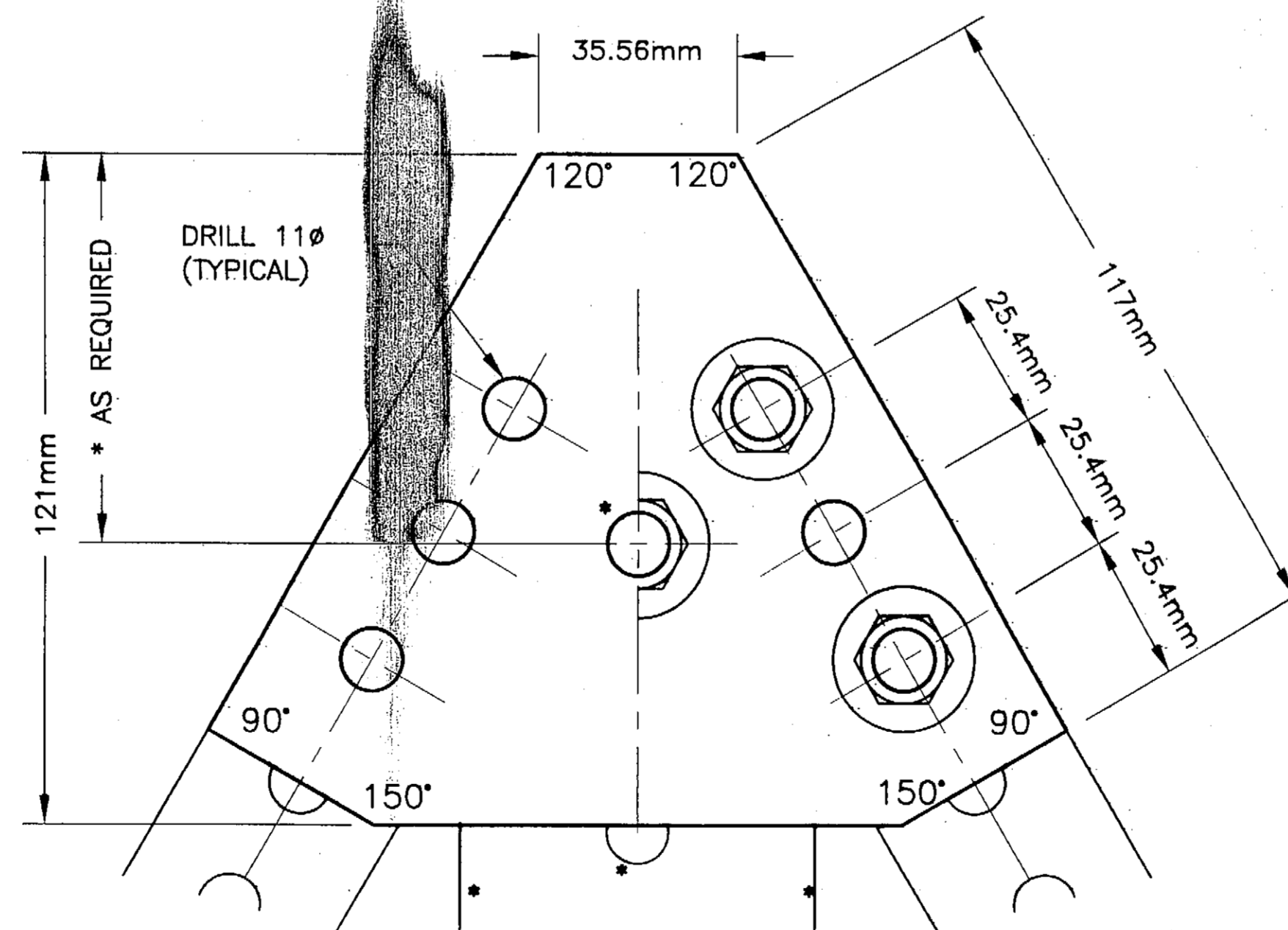
SIDE VIEW

Segmented Circle Panels

N.T.S.



SIDE VIEW



FRONT VIEW

* TOP GUSSET PLATES ONLY

Gusset Plate Details

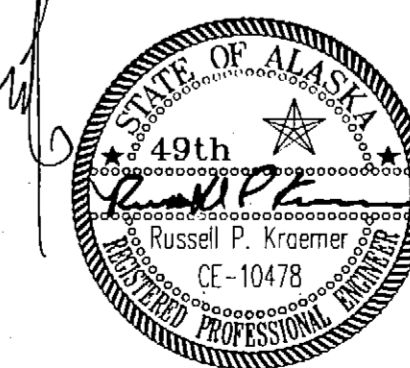
N.T.S.

NOTES:

1. PERFORATED STEEL TUBING (PST) SHALL BE 2.7mm THICK SQUARE, COLD ROLLED CARBON STEEL PER ASTM A 653, CORNER WELDED, GALVANIZED. SEE SECTION P-640-2.2.
2. GUSSET PLATES SHALL BE 6mm STEEL, ASTM A 36, GALVANIZED.
3. FASTENERS SHALL BE 9mm DIA. GALVANIZED GRADE 2 BOLTS WITH NUT AND 2-25mm DIA. WASHERS EACH. LENGTH SHALL BE AS REQUIRED TO FASTEN MEMBERS.
4. PANELS SHALL BE 2mm ALUMINUM WITH A REFLECTIVE ORANGE COVERING. SEE SECTION D-640-2.2.
5. FOOTING SHALL HAVE MINIMUM NEAT LINE VOLUME OF CONCRETE OF 0.100 CUBIC METERS.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

DESIGNED BY: RUSSELL KRAEMER



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

CHECKED BY: VICTOR M. WINTERS
DRAWN BY: M.L./R.S.

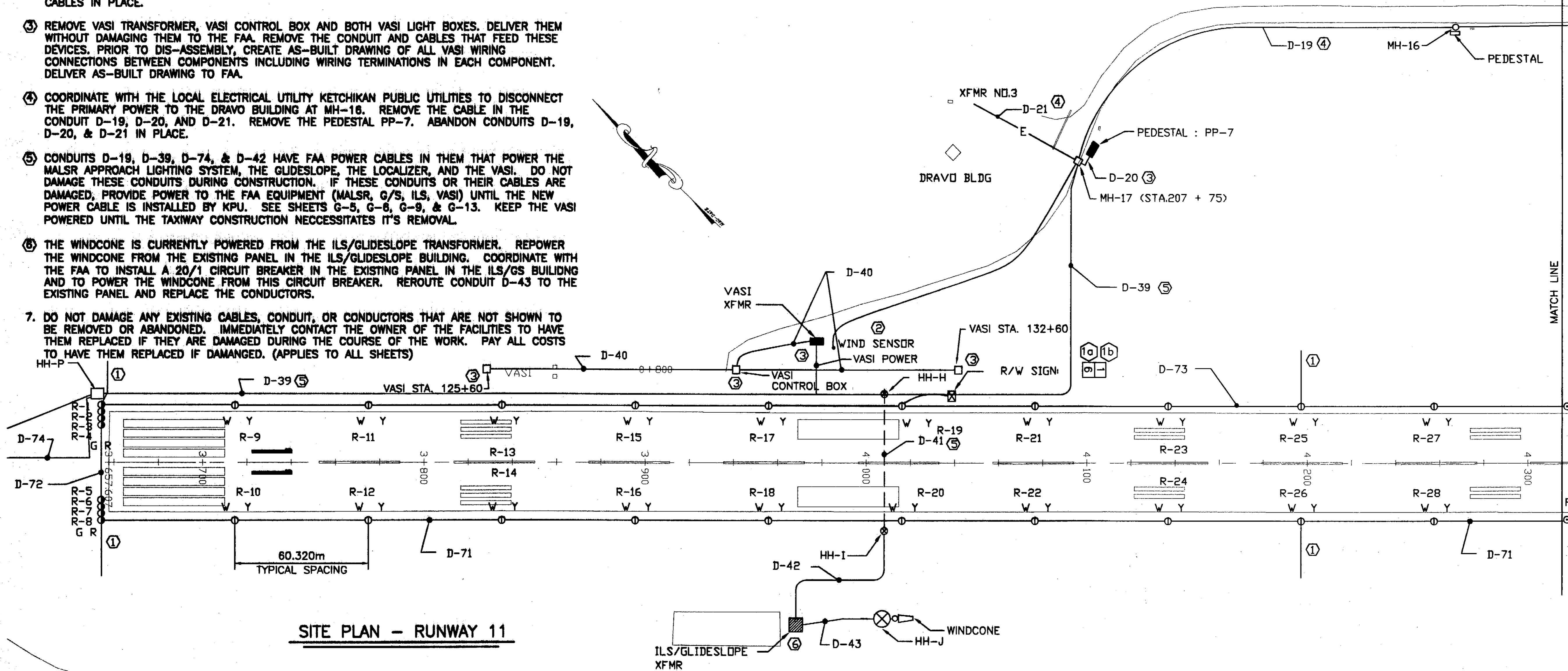
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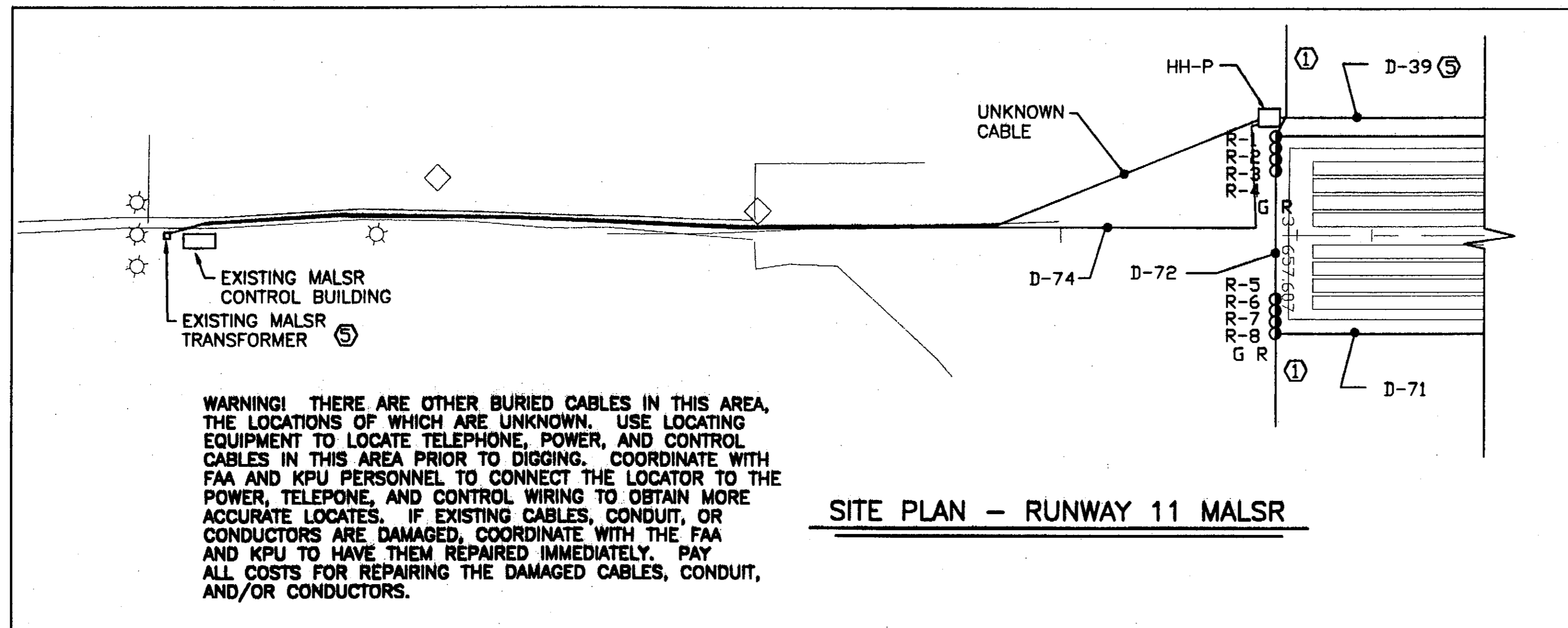
REVISIONS		PROJECT DESIGNATION AIP NO.	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE				
		3-02-0144-1402	2002	F12	48

NOTES:

- ① EXISTING 50mm DRAIN FROM LIGHT BASE TO DAYLIGHT.
- ② REMOVE WIND SENSOR AND SUPPORT STRUCTURE. DISCONNECT POWER. ABANDON POWER CABLES IN PLACE.
- ③ REMOVE VASI TRANSFORMER, VASI CONTROL BOX AND BOTH VASI LIGHT BOXES. DELIVER THEM WITHOUT DAMAGING THEM TO THE FAA. REMOVE THE CONDUIT AND CABLES THAT FEED THESE DEVICES. PRIOR TO DIS-ASSEMBLY, CREATE AS-BUILT DRAWING OF ALL VASI WIRING CONNECTIONS BETWEEN COMPONENTS INCLUDING WIRING TERMINATIONS IN EACH COMPONENT. DELIVER AS-BUILT DRAWING TO FAA.
- ④ COORDINATE WITH THE LOCAL ELECTRICAL UTILITY KETCHIKAN PUBLIC UTILITIES TO DISCONNECT THE PRIMARY POWER TO THE DRAVO BUILDING AT MH-18. REMOVE THE CABLE IN THE CONDUIT D-19, D-20, AND D-21. REMOVE THE PEDESTAL PP-7. ABANDON CONDUITS D-19, D-20, & D-21 IN PLACE.
- ⑤ CONDUITS D-19, D-39, D-74, & D-42 HAVE FAA POWER CABLES IN THEM THAT POWER THE MALSR APPROACH LIGHTING SYSTEM, THE GLIDESLOPE, THE LOCALIZER, AND THE VASI. DO NOT DAMAGE THESE CONDUITS DURING CONSTRUCTION. IF THESE CONDUITS OR THEIR CABLES ARE DAMAGED, PROVIDE POWER TO THE FAA EQUIPMENT (MALSR, G/S, ILS, VASI) UNTIL THE NEW POWER CABLE IS INSTALLED BY KPU. SEE SHEETS G-5, G-6, G-9, & G-13. KEEP THE VASI POWERED UNTIL THE TAXIWAY CONSTRUCTION NECESSITATES ITS REMOVAL.
- ⑥ THE WINDCONE IS CURRENTLY POWERED FROM THE ILS/GLIDESLOPE TRANSFORMER. REPOWER THE WINDCONE FROM THE EXISTING PANEL IN THE ILS/GLIDESLOPE BUILDING. COORDINATE WITH THE FAA TO INSTALL A 20/1 CIRCUIT BREAKER IN THE EXISTING PANEL IN THE ILS/GS BUILDING AND TO POWER THE WINDCONE FROM THIS CIRCUIT BREAKER. REROUTE CONDUIT D-43 TO THE EXISTING PANEL AND REPLACE THE CONDUCTORS.
7. DO NOT DAMAGE ANY EXISTING CABLES, CONDUIT, OR CONDUCTORS THAT ARE NOT SHOWN TO BE REMOVED OR ABANDONED. IMMEDIATELY CONTACT THE OWNER OF THE FACILITIES TO HAVE THEM REPLACED IF THEY ARE DAMAGED DURING THE COURSE OF THE WORK. PAY ALL COSTS TO HAVE THEM REPLACED IF DAMAGED. (APPLIES TO ALL SHEETS)



SITE PLAN - RUNWAY 11



SITE PLAN - RUNWAY 11 MALSR

WARNING! THERE ARE OTHER BURIED CABLES IN THIS AREA, THE LOCATIONS OF WHICH ARE UNKNOWN. USE LOCATING EQUIPMENT TO LOCATE TELEPHONE, POWER, AND CONTROL CABLES IN THIS AREA PRIOR TO DIGGING. COORDINATE WITH FAA AND KPU PERSONNEL TO CONNECT THE LOCATOR TO THE POWER, TELEPHONE, AND CONTROL WIRING TO OBTAIN MORE ACCURATE LOCATES. IF EXISTING CABLES, CONDUIT, OR CONDUCTORS ARE DAMAGED, COORDINATE WITH THE FAA AND KPU TO HAVE THEM REPAIRED IMMEDIATELY. PAY ALL COSTS FOR REPAIRING THE DAMAGED CABLES, CONDUIT, AND/OR CONDUCTORS.

PATH:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

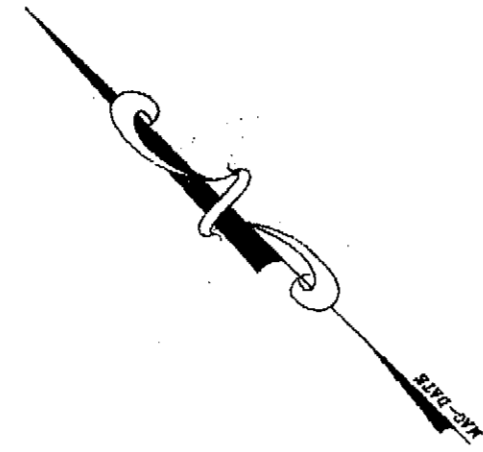
**KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035**

**Existing Lighting & Power -
Runway 11**

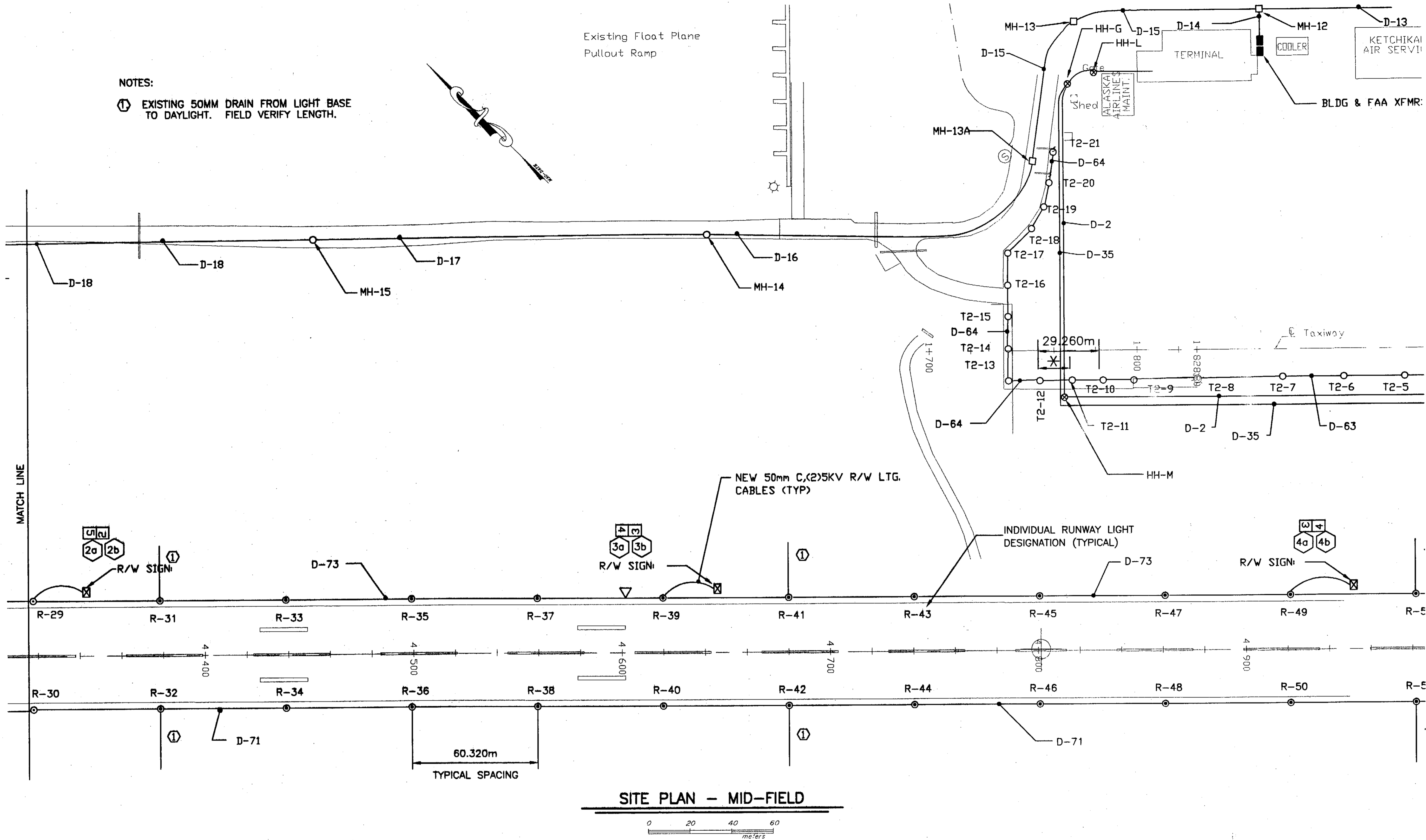
DESIGNED BY:	M. MORRIS
CHECKED BY:	M. MORRIS
DRAWN BY:	M.L.
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION KETCHIKAN AIRPORT WEST TAXIWAY CONSTRUCTION PROJECT NO. 68035	
Existing Lighting & Power R/W 11	
PROJECT DESIGNATION NUMBER	
AIP NO. 3-02-0144-1402	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G1	48

NOTES:

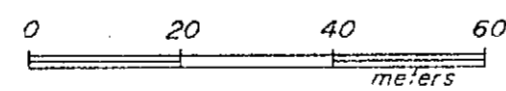
① EXISTING 50MM DRAIN FROM LIGHT BASE TO DAYLIGHT. FIELD VERIFY LENGTH.



Existing Float Plane
Pullout Ramp



SITE PLAN - MID-FIELD



PATH:

PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

**Existing Lighting & Power -
Mid-Field**

DESIGNED BY: M. MORRIS

CHECKED BY: M. MORRIS

DRAWN BY: M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

Existing Lighting & Power Mid-Field

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G2	48

EXISTING RACEWAY/CABLE SCHEDULE

DUCT	FROM	(C) = CONCRETE ENCASED CONDUIT (E) = EXISTING (N) = NEW		IDENTIFICATION	INSTRUCTIONS/REMARKS
		TO	CONDUITS		
D-2	MH-2	HH-G	50mm PVC (E)	(2) 18 COND. NO. 16 CABLE CONTROL (E)	REGULATOR CONTROLS CONTROL
D-13	MH-11	MH-12	(1) 102mm PVC (C)(E) (1) 102mm PVC (C)(E) (1) 102mm PVC (C)(E)	15 KV CABLES (E) UNKNOWN (E) TELE CABLE(S)(E)	UTILITY POWER UTILITY TELEPHONE
D-14	MH-12	UTILITY XFMR	(1) 102mm GRS (E) (1) 50mm GRS (E) (1) 50mm GRS (E)	15 KV CABLES (E) TELEPHONE (E) (1) 15KV, (1) GND (E)	UTILITY POWER UTILITY TELEPHONE FAA POWER
D-15 16, 17, 18	MH-12	MH-16	(1) 102mm PVC (C)(E) (1) 102mm PVC (C)(E)	(1) 15KV, (1) GND (E) 15 KV CABLES (E) 6/C, NO. 19 (E) TELE CABLE (E)	FAA POWER UTILITY POWER FAA CONTROL UTILITY TELEPHONE
D-19	MH-16	MH-17	(1) 102mm PVC (C)(E) (1) 102mm PVC (C)(E)	(1) 15KV, (1) GND (E) 15 KV CABLES (E) 6/C, NO. 19 (E) TELE CABLE (E)	FAA POWER UTILITY POWER FAA CONTROL UTILITY TELEPHONE
D-20	MH-17	PEDESTAL	(1) 102mm GRS (E) (1) 102mm GRS (E) (1) 102mm GRS (E)	15 KV CABLE(S)(E) 15 KV CABLE (E) EMPTY	UTILITY POWER UTILITY POWER SPARE
D-21	MH-17	XFMR NO. 3	(1) 102mm GRS (E)	15 KV CABLE(S)(E)	UTILITY POWER
D-39	MH-17	HH-P	DIRECT BURY CABLE (E)	(1) 15 KV, NO. 2 AL (E)	FAA POWER
D-40	VASI XFMR	VASI	(1) OR (2) 50mm C (E)	FAA CABLES (E)	FAA VASI
D-41	HH-H	HH-I	(1) 102mm GRS (E)	(1) 15 KV (E)	FAA POWER
D-42	HH-I	G/S XFMR	DIRECT BURY CABLE (E)	(1) 15 KV	FAA POWER
D-43	G/S XFMR	HH-J	(1) 50mm C (E)	(2) NO. 10 (E)	WINDCONE POWER
D-63	T2-1	T2-12	(1) 50mm C (E)	(2) 5 KV, NO. 8 (E)	TAXIWAY CKT T2
D-64	T2-12	T2-21	(1) 50mm C (E)	(2) 5 KV, NO. 8 (E)	TAXIWAY CKT T2
D-71	R-90	R-8	(1) 50mm C (E)	(1) 5 KV, NO. 8 (E)	RUNWAY CKT R
D-72	R-8	R-1	(1) 50mm GRS (E)	(1) 5 KV, NO. 8 (E)	RUNWAY CKT R
D-73	R-1	MH-3	(1) 50mm C (E)	(1) 5 KV, NO. 8 (E)	RUNWAY CKT R
D-74	HH-P	MALS	DIRECT BURY CABLE (E)	(1) 15 KV, NO. 2 AL (E)	FAA POWER

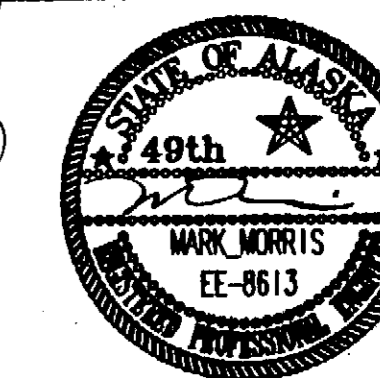
NOTE: COORDINATE WITH KETCHIKAN PUBLIC UTILITIES TO DISCONNECT POWER TO EXISTING FAA POWER CABLE BEFORE REMOVING IT. COORDINATE WITH KPU TO DISCONNECT POWER TO THE PRIMARY CABLE IN D-19, D-20, & D-21 BEFORE REMOVING THE CABLE.

PATH:		
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

Existing Raceway/Cable Schedule

DESIGNED BY: M. MORRIS



CHECKED BY: M. MORRIS

DRAWN BY: M.L.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
 KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

Extg Raceway/ Cable Sch.

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G3	48

EXISTING AIRPORT SIGN SUMMARY									
SIGN NO.	LEGEND	LETTER SIZE & COLOR	BACKGROUND COLOR	LEGEND DIRECTION	STATION	RWY OR TWY OFFSET DISTANCE TO NEAR EDGE OF SIGN	REMARKS	TYPE	SIZE
1a	6	635mm WHITE	BLACK	NW	RWY 4+038.6		EXISTING TO REMAIN	RUNWAY DISTANCE REMAINING	5
1b	1	635mm WHITE	BLACK	SE	RWY 4+038.6			RUNWAY DISTANCE REMAINING	5
2a	5	635mm WHITE	BLACK	NW	RWY 4+343.4			RUNWAY DISTANCE REMAINING	5
2b	2	635mm WHITE	BLACK	SE	RWY 4+343.4			RUNWAY DISTANCE REMAINING	5
3a	4	635mm WHITE	BLACK	NW	RWY 4+648.2			RUNWAY DISTANCE REMAINING	5
3b	3	635mm WHITE	BLACK	SE	RWY 4+648.2			RUNWAY DISTANCE REMAINING	5
4a	3	635mm WHITE	BLACK	NW	RWY 4+953			RUNWAY DISTANCE REMAINING	5
4b	4	635mm WHITE	BLACK	SE	RWY 4+953			RUNWAY DISTANCE REMAINING	5
9a	A 11-29	305mm YELLOW/BLACK	BLACK/YELLOW	NW	TWY A		EXISTING TO REMAIN	LOCATION / DESTINATION	1
9b	APRON B	305mm BLACK/BLACK	YELLOW/YELLOW	SE	TWY A		PROVIDE NEW LEGEND	DESTINATION / DIRECTION	1
10a	↓ APRON	305mm BLACK	YELLOW	NW	TWY B		EXISTING TO REMAIN	LOCATION / DESTINATION	1
10b	← A 11-29	305mm YELLOW/BLACK	BLACK/YELLOW	SE	TWY B		EXISTING TO REMAIN	DIRECTION / DESTINATION	1
11	B	305mm YELLOW	BLACK	N	TWY B	SIGN IS AT BOTTOM OF TWY B	PROVIDE NEW LEGEND	LOCATION	1
12	B	305mm YELLOW	BLACK	NW	TWY B		PROVIDE NEW LEGEND	LOCATION	1

EXISTING HANDHOLE SCHEDULE		
NUMBER	LOCATION	INSTRUCTIONS
HH-G	APRON	EXTG TO REMAIN
HH-H	RWY STA. 4+008	TO BE REMOVED
HH-I	RWY STA. 4+008	TO BE REMOVED
HH-J	RWY 11 WINDCONE	EXTG TO REMAIN
HH-L	APRON	EXTG TO REMAIN
HH-M	APRON	EXTG TO REMAIN
HH-P	RWY STA 3+654	TO BE REMOVED <i>REMAIN</i>

EXISTING MANHOLE SCHEDULE		
NUMBER	LOCATION	INSTRUCTIONS
MH-12 TO MH-16	THESE MANHOLES ARE LOCATED ALONG THE AIRPORT SERVICE ROAD AND ARE EXISTING TO REMAIN	
MH-17	AIRPORT SERVICE ROAD R/W STA. 4+93, 136 LT.	TO BE REMOVED
MH-22	APRON AND BEGINNING OF TAXIWAY A	PROVIDE A NEW 150MM DRAIN PIPE

HANDHOLE NOTES:

- REFER TO SHEETS G1, G2 FOR LOCATIONS OF HANDHOLES.
- WHERE A HANDHOLE IS REMOVED, BACKFILL HOLE WITH CRUSHED AGGREGATE BASE COURSE AND COMPACT TO 95%.

PATH:
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

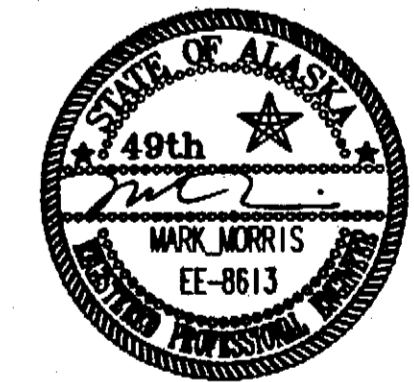
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

Existing Sign, handhole, & Manhole Schedules

DESIGNED BY: M. MORRIS



CHECKED BY: M. MORRIS
DRAWN BY: M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035
Extg Sign, MH, & HH Schedules

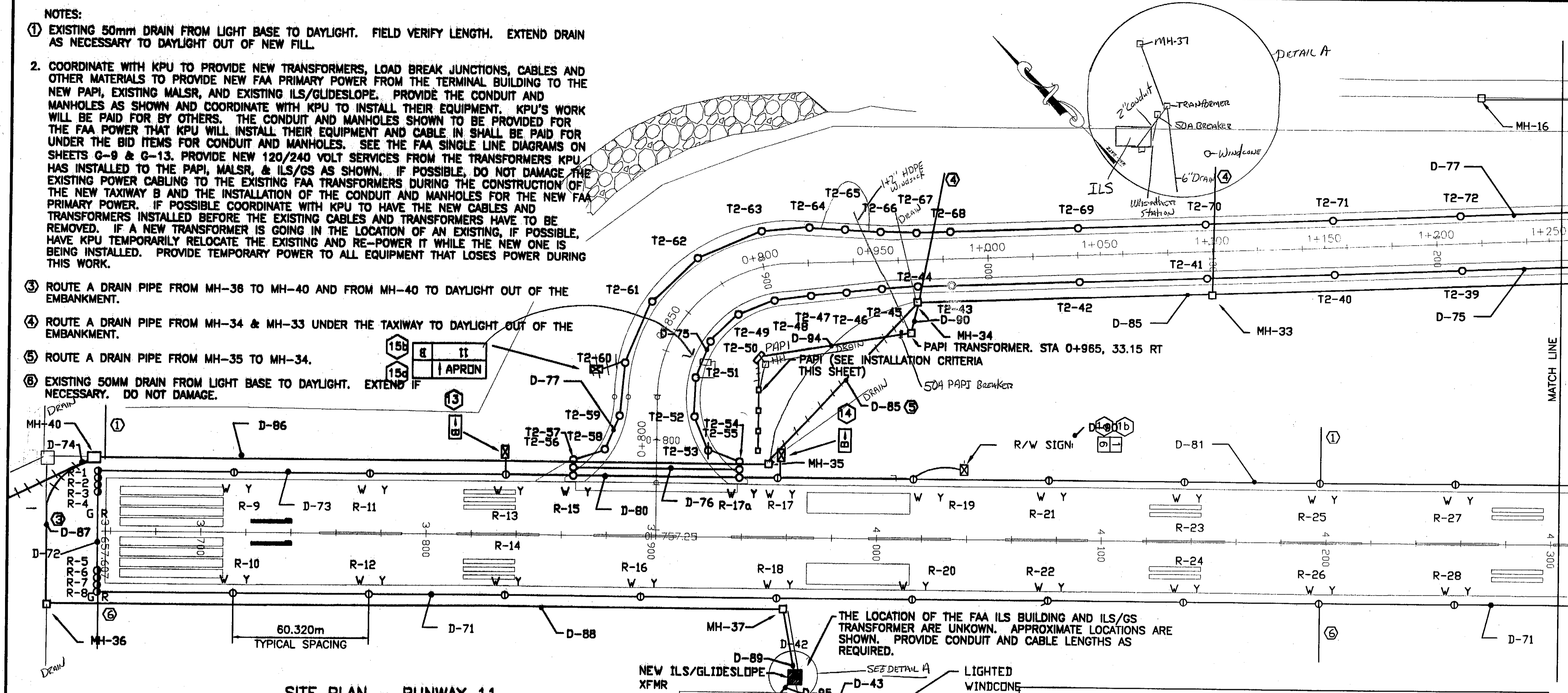
PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002

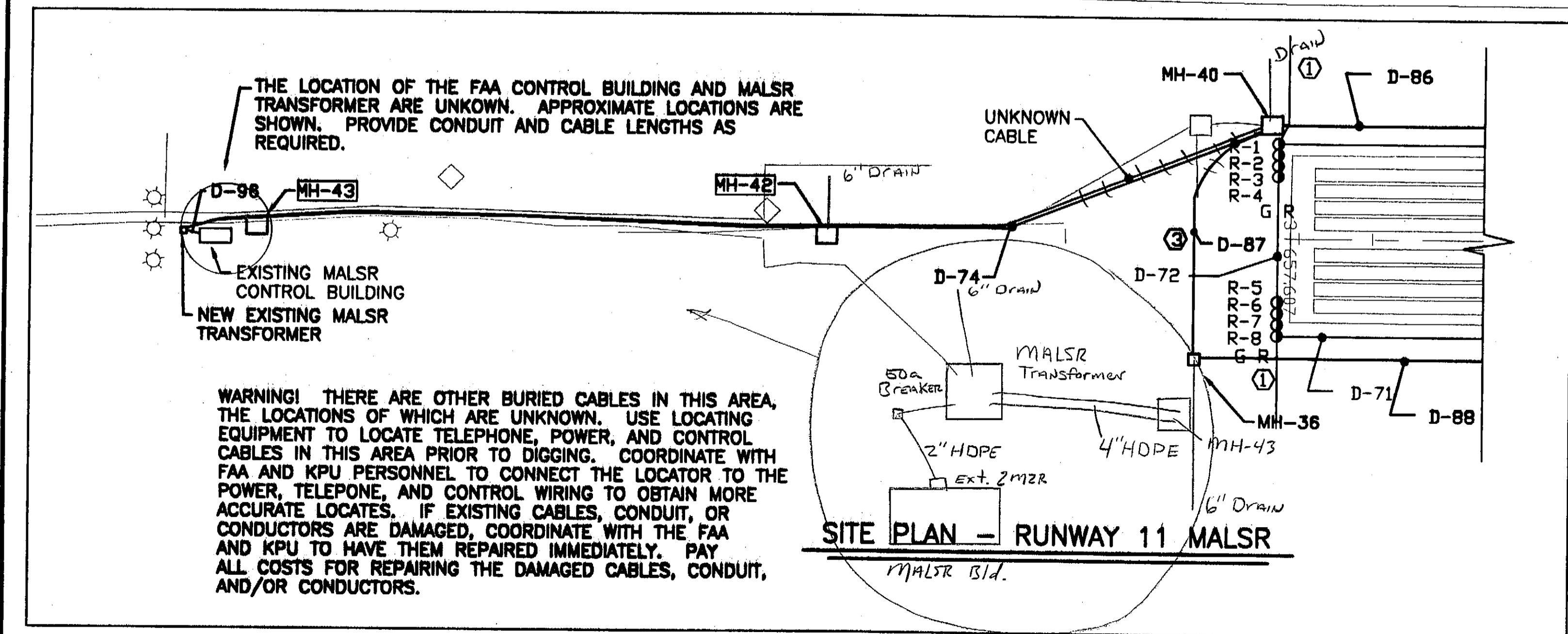
SHEET NUMBER	TOTAL SHEETS
G4	48

NOTES:

- EXISTING 50mm DRAIN FROM LIGHT BASE TO DAYLIGHT. FIELD VERIFY LENGTH. EXTEND DRAIN AS NECESSARY TO DAYLIGHT OUT OF NEW FILL.
- COORDINATE WITH KPU TO PROVIDE NEW TRANSFORMERS, LOAD BREAK JUNCTIONS, CABLES AND OTHER MATERIALS TO PROVIDE NEW FAA PRIMARY POWER FROM THE TERMINAL BUILDING TO THE NEW PAPI, EXISTING MALSR, AND EXISTING ILS/GLIDESLOPE. PROVIDE THE CONDUIT AND MANHOLES AS SHOWN AND COORDINATE WITH KPU TO INSTALL THEIR EQUIPMENT. KPU'S WORK WILL BE PAID FOR BY OTHERS. THE CONDUIT AND MANHOLES SHOWN TO BE PROVIDED FOR THE FAA POWER THAT KPU WILL INSTALL THEIR EQUIPMENT AND CABLE IN SHALL BE PAID FOR UNDER THE BID ITEMS FOR CONDUIT AND MANHOLES. SEE THE FAA SINGLE LINE DIAGRAMS ON SHEETS G-9 & G-13. PROVIDE NEW 120/240 VOLT SERVICES FROM THE TRANSFORMERS KPU HAS INSTALLED TO THE PAPI, MALSR, & ILS/GS AS SHOWN. IF POSSIBLE, DO NOT DAMAGE THE EXISTING POWER CABLE TO THE EXISTING FAA TRANSFORMERS DURING THE CONSTRUCTION OF THE NEW TAXIWAY B AND THE INSTALLATION OF THE CONDUIT AND MANHOLES FOR THE NEW FAA PRIMARY POWER. IF POSSIBLE COORDINATE WITH KPU TO HAVE THE NEW CABLES AND TRANSFORMERS INSTALLED BEFORE THE EXISTING CABLES AND TRANSFORMERS HAVE TO BE REMOVED. IF A NEW TRANSFORMER IS GOING IN THE LOCATION OF AN EXISTING, IF POSSIBLE, HAVE KPU TEMPORARILY RELOCATE THE EXISTING AND RE-POWER IT WHILE THE NEW ONE IS BEING INSTALLED. PROVIDE TEMPORARY POWER TO ALL EQUIPMENT THAT LOSES POWER DURING THIS WORK.
- ROUTE A DRAIN PIPE FROM MH-36 TO MH-40 AND FROM MH-40 TO DAYLIGHT OUT OF THE EMBANKMENT.
- ROUTE A DRAIN PIPE FROM MH-34 & MH-33 UNDER THE TAXIWAY TO DAYLIGHT OUT OF THE EMBANKMENT.
- ROUTE A DRAIN PIPE FROM MH-35 TO MH-34.
- EXISTING 50MM DRAIN FROM LIGHT BASE TO DAYLIGHT. EXTEND IF NECESSARY. DO NOT DAMAGE.



SITE PLAN - RUNWAY 11



SITE PLAN - RUNWAY 11 MALSR

WARNING! THERE ARE OTHER BURIED CABLES IN THIS AREA, THE LOCATIONS OF WHICH ARE UNKNOWN. USE LOCATING EQUIPMENT TO LOCATE TELEPHONE, POWER, AND CONTROL CABLES IN THIS AREA PRIOR TO DIGGING. COORDINATE WITH FAA AND KPU PERSONNEL TO CONNECT THE LOCATOR TO THE POWER, TELEPHONE, AND CONTROL WIRING TO OBTAIN MORE ACCURATE LOCATES. IF EXISTING CABLES, CONDUIT, OR CONDUCTORS ARE DAMAGED, COORDINATE WITH THE FAA AND KPU TO HAVE THEM REPAIRED IMMEDIATELY. PAY ALL COSTS FOR REPAIRING THE DAMAGED CABLES, CONDUIT, AND/OR CONDUCTORS.

THE LOCATION OF THE FAA ILS BUILDING AND ILS/GS TRANSFORMER ARE UNKNOWN. APPROXIMATE LOCATIONS ARE SHOWN. PROVIDE CONDUIT AND CABLE LENGTHS AS REQUIRED.

PAPI INSTALLATION CRITERIA

PAPI UNIT	LOCATION (METERS)	HT ABOVE GROUND TO TOP OF UNIT (METERS)	AIMING ANGLE (DEGREES & MINUTES)
PWR ASSY	STA 3+947, 80 LT	1.2m	N/A
LHA #4	STA 3+947, 65.55 LT	1.0m	3' 07'
LHA #3	STA 3+947, 56.4 LT	1.0m	3' 27'
LHA #2	STA 3+947, 47.25 LT	1.0m	3' 47'
LHA #1	STA 3+947, 38.1 LT	1.0m	4' 07'

- NOTES:**
- THE LOCATION DISTANCE SHALL BE TO THE CENTER OF THE UNIT ± 127mm.
 - THE BEAM CENTERS OF ALL LIGHT UNITS SHALL BE WITHIN ± 12.7mm OF A HORIZONTAL PLANE. THIS HORIZONTAL PLANE SHALL BE WITHIN ± 152.4mm OF THE RUNWAY CENTERLINE AT THE INTERCEPT POINT OF THE VISUAL GLIDE PATH WITH THE RUNWAY (STA 3+947.9). SET THE GROUND ELEVATION AS NECESSARY TO ACHIEVE THIS.
 - THE FRONT FACE OF EACH LIGHT UNIT SHALL BE LOCATED ON A LINE PERPENDICULAR TO THE RUNWAY CENTERLINE WITHIN ± 76.2mm.
 - EACH LIGHT UNIT SHALL BE AIMED OUTWARD INTO THE APPROACH ZONE ON A TOLERANCE OF ± 1/4 DEGREE.
 - ALL SITING TOLERANCES SHALL BE DEMONSTRATED TO THE ENGINEER USING SURVEYING LASERS OR OTHER EQUIPMENT ACCEPTABLE TO THE ENGINEER.
 - INSTALL THE PAPIS PER THE FAA DRAWINGS CONTAINED IN APPENDIX I OF THE CONTRACT DRAWINGS. WHERE THE FAA DRAWINGS CONFLICT WITH WHAT IS SHOWN ON THESE DRAWINGS, COMPLY WITH THE FAA DRAWINGS, UNLESS WHAT IS SHOWN IS MORE STRINGENT, DEMANDING, OR PROVIDES MORE CAPACITY. PROVIDE THE CONDUIT, MOUNTING SPACE, AND OTHER MATERIALS REQUIRED FOR THE FUTURE INSTALLATION OF AIR TO AIR, AIR TO GROUND, AND REMOTE MONITORING EQUIPMENT AT THE PAPI, SEE FAA DRAWING D-6247-23.

PATH:
PLDT:
PSPACE 1=(F) OR MSPACE 1=(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

**KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035**

**New Lighting & Power -
Runway 11**

DESIGNED BY: M. MORRIS



CHECKED BY: M. MORRIS

DRAWN BY: M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

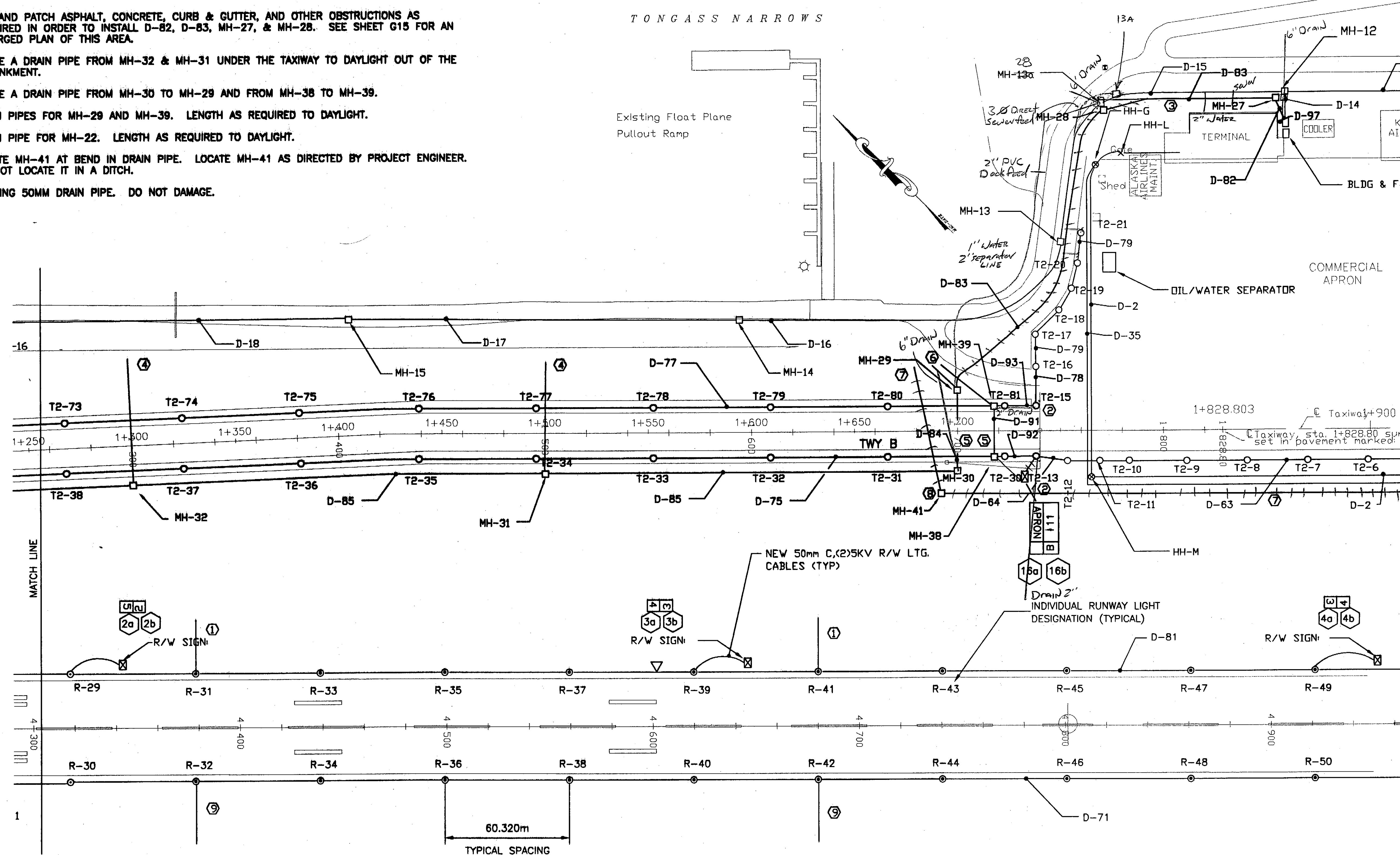
**KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035
New Lighting &
Power - R/W 11**

PROJECT DESIGNATION NUMBER

AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G5	48

- NOTES:**
- ① EXISTING 50mm DRAIN FROM LIGHT BASE TO DAYLIGHT. FIELD VERIFY LENGTH. EXTEND DRAIN AS NECESSARY TO DAYLIGHT OUT OF NEW FILL.
 - ② REPLACE T2-13 AND T2-15. INSTALL THEM WHERE SHOWN.
 - ③ CUT AND PATCH ASPHALT, CONCRETE, CURB & GUTTER, AND OTHER OBSTRUCTIONS AS REQUIRED IN ORDER TO INSTALL D-82, D-83, MH-27, & MH-28. SEE SHEET G15 FOR AN ENLARGED PLAN OF THIS AREA.
 - ④ ROUTE A DRAIN PIPE FROM MH-32 & MH-31 UNDER THE TAXIWAY TO DAYLIGHT OUT OF THE EMBANKMENT.
 - ⑤ ROUTE A DRAIN PIPE FROM MH-30 TO MH-29 AND FROM MH-38 TO MH-39.
 - ⑥ DRAIN PIPES FOR MH-29 AND MH-39. LENGTH AS REQUIRED TO DAYLIGHT.
 - ⑦ DRAIN PIPE FOR MH-22. LENGTH AS REQUIRED TO DAYLIGHT.
 - ⑧ LOCATE MH-41 AT BEND IN DRAIN PIPE. LOCATE MH-41 AS DIRECTED BY PROJECT ENGINEER. DO NOT LOCATE IT IN A DITCH.
 - ⑨ EXISTING 50MM DRAIN PIPE. DO NOT DAMAGE.



SITE PLAN - MID-FIELD

PATH:		
PLOT: PSPACE 1=(F) OR MSPACE 1=(F)		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035**

**New Lighting & Power -
 Mid-Field**

DESIGNED BY: M. MORRIS

CHECKED BY: M. MORRIS
 DRAWN BY: M.M

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
 KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

**New Lighting &
 Power Mid-Field**

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G6	48

NEW RACEWAY/CABLE SCHEDULE

DUCT	FROM	TO	(C) = CONCRETE ENCASED CONDUIT (E) = EXISTING (N) = NEW C= CONDUIT (HDPE OR GRS) CONDUITS	(N) = NEW CABLES	IDENTIFICATION	INSTRUCTIONS/REMARKS
D-2	MH-2	HH-G	50mm PVC (E)	(2) 18 COND. NO. 16 CABLE CONTROL (E)	REGULATOR CONTROLS CONTROL (E)	
D-13	MH-11	MH-12	(1) 102mm PVC (C)(E) (1) 102mm PVC (C)(E) (1) 102mm PVC (C)(E)	15 KV CABLES (E) UNKNOWN (E) TELE CABLE(S)(E)	UTILITY POWER UTILITY TELEPHONE	KPU PRIMARY KPU TELEPHONE CABLE(S)
D-14	MH-12	UTILITY XFMR	(1) 102mm GRS (E) (1) 50mm GRS (E)	15 KV CABLES (E) TELEPHONE (E)	UTILITY POWER UTILITY TELEPHONE	KPU PRIMARY KPU TELEPHONE CABLES
D-15, 16, 17, 18	MH-12	MH-16	(1) 102mm PVC (C)(E) (1) 102mm PVC (C)(E)	15 KV CABLES (E) SPARE	UTILITY POWER	KPU PRIMARY
D-43	ILS BUILDING	HH-J	(1) 50mm C (E)	(2) NO. 8 (800V) (N)	WINDCONE POWER	REROUTE CONDUIT TO PANEL IN ILS BUILDING CONNECTED TO T2-12.
D-63	T2-1	T2-12	(1) 50mm C (E)	(2) 5 KV, NO. 8 (E)	TAXIWAY CKT T2	
D-64	T2-12	T2-13	(1) 50mm C (N)	(2) 5 KV, NO. 8 (N)	TAXIWAY CKT T2	REROUTE TO NEW T2-13.
D-71	R-90	R-8	(1) 50mm C (E)	(1) 5 KV, NO. 8 (E)	RUNWAY CKT R	
D-72	R-8	R-1	(1) 50mm GRS (E)	(1) 5 KV, NO. 8 (E)	RUNWAY CKT R	
D-73	R-1	R-13	(1) 50mm C (E)	(1) 5 KV, NO. 8 (E)	RUNWAY CKT R	
D-74	MH-40	MALSR XFMR	(1) 102mm C (N) (1) 102mm C (N)	(1) 15 KV, NO. 1/0 CU (N) SPARE	FAA POWER	CABLE BY KPU
D-75	MH-38	T2-55	(1) 50mm C (N)	(1) 5 KV, NO. 8 (N)	TAXIWAY CKT T2	②
D-76	T2-55	T2-56	(1) 50mm C GRS (N)	(1) 5 KV, NO. 8 (N)	TAXIWAY CKT T2	②
D-77	T2-56	MH-39	(1) 50mm C (N)	(1) 5 KV, NO. 8 (N)	TAXIWAY CKT T2	②
D-78	T2-15	T2-16	(1) 50mm C (N)	(2) 5 KV, NO. 8 (N)	TAXIWAY CKT T2	REROUTE TO NEW T2-15.
D-79	T2-16	T2-21	(1) 50mm C GRS (E)	(2) 5 KV, NO. 8 (E)	TAXIWAY CKT T2	
D-80	R-13	R-17	(1) 50mm C (N)	(1) 5 KV, NO. 8 (N)	RUNWAY CKT R	RECONNECT TO R-13 & R-17.
D-81	R-17	MH-3	(1) 50mm C (E)	(1) 5KV, NO. 8 (E)	RUNWAY CKT R	TO REMAIN.
D-82	FAA XFMR	MH-27	(1) 102mm C (N) GRS (1) 102mm C (N) GRS	(1) 15 KV, NO. 1/0 CU (N) SPARE	FAA POWER	CABLE BY KPU
D-83	MH-27	MH-29	(1) 102mm C (N) (1) 102mm C (N)	(1) 15 KV, NO. 1/0 CU (N) SPARE	FAA POWER	CABLE BY KPU
D-84	MH-29	MH-30	(1) 102mm C (N) (1) 102mm C (N)	(1) 15 KV, NO. 1/0 CU (N) SPARE	FAA POWER	CABLE BY KPU
D-85	MH-30	MH-35	(1) 102mm C (N) (1) 102mm C (N)	(1) 15 KV, NO. 1/0 CU (N) SPARE	FAA POWER	CABLE BY KPU
D-86	MH-35	MH-40	(1) 102mm C (N) (1) 102mm C (N)	(1) 15 KV, NO. 1/0 CU (N) SPARE	FAA POWER	CABLE BY KPU
D-87	MH-40	MH-36	(1) 102mm C (N) (1) 102mm C (N)	(1) 15 KV, NO. 1/0 CU (N) SPARE	FAA POWER	CABLE BY KPU ROUTE AROUND EXISTING APPROACH LIGHTS LOCATED RIGHT BEHIND THRESHOLD LIGHTS.
D-88	MH-36	MH-37	(1) 102mm C (N) (1) 102mm C (N)	(1) 15 KV, NO. 1/0 CU (N) SPARE	FAA POWER	CABLE BY KPU
D-89	MH-37	G/S XFMR	(1) 102mm C (N) (1) 102mm C (N)	(1) 15 KV, NO. 1/0 CU (N) SPARE	FAA POWER	CABLE BY KPU
D-90	MH-35	PAPI MASTER	(1) 102mm C (N) (1) 50mm C (N)	(1) 15 KV, NO. 1/0 CU (N) SPARE	FAA POWER	CABLE BY KPU
D-91	MH-38	MH-39	(1) 50mm C (N) (2) 102mm C GRS (N)	(1) 5 KV, NO. 8 (N) SPARE	TAXIWAY CKT T2	
D-92	T2-13	MH-38	(1) 50mm C (N)	(2) 5 KV, NO. 8 (N)	TAXIWAY CKT T2	②
D-93	MH-39	T2-15	(1) 50mm C (N)	(2) 5 KV, NO. 8 (N)	TAXIWAY CKT T2	②
D-94	PAPI XFMR	PAPI PWR ASSY.	(1) 50mm C (N)	3 NO. 8 & 1 NO. 8 GND	PAPI POWER	INSTALL PER FAA DWGS FOR PAPI. ALSO SEE 69.
D-95	ILS/GS XFMR	ILS BLDG	(1) 50mm C (N)	3 NO. 8 & 1 NO. 8 GND	ILS/GS POWER	SEE SHEET G13. BLDG PANEL LOCATION UNKNOWN
D-96	MALSR XFMR	MALSR BLDG	(1) 50mm C (N)	3 NO. 2 & 1 NO. 8 GND	MALSR POWER	SEE SHEET G13. BLDG PANEL LOCATION UNKNOWN
D-97	AUTO XFMR	FAA XFMR	(1) 102mm C (N)	3 NO. 2 & 1 NO. 8 GND	FAA POWER	SEE SHEET G13.

NOTES: 1. PROVIDE A GROUND CONDUCTOR IN EVERY CONDUIT CONTAINING NEW CABLES. PROVIDE A NO. 8 COPPER CONDUCTOR.

② ROUTE NEW CONDUIT TO EVERY LIGHT BASE BETWEEN "FROM" AND "TO" LOCATIONS.

3. ALL RUNWAY AND TAXIWAY LIGHTING CABLE SHALL BY TYPE C.

PATH:

PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

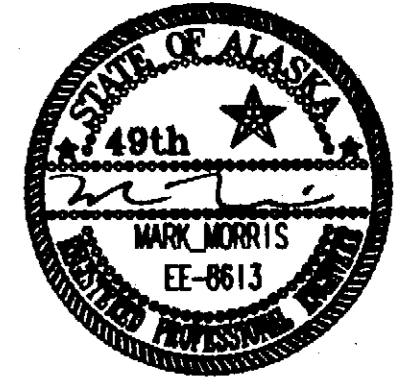
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

New Raceway/Cable Schedule

DESIGNED BY: M. MORRIS



CHECKED BY: M. MORRIS

DRAWN BY: M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

New Raceway/ Cable Schedule

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G7	48

NEW AIRPORT SIGN SUMMARY									
SIGN NO.	LEGEND	LETTER SIZE & COLOR	BACKGROUND COLOR	LEGEND DIRECTION	STATION	RWY OR TWY OFFSET DISTANCE TO NEAR EDGE OF SIGN	REMARKS	TYPE	SIZE
1a	6	635mm WHITE	BLACK	NW	RWY 4+038.6		EXISTING TO REMAIN	RUNWAY DISTANCE REMAINING	5
1b	1	635mm WHITE	BLACK	SE	RWY 4+038.6			RUNWAY DISTANCE REMAINING	5
2a	5	635mm WHITE	BLACK	NW	RWY 4+343.4			RUNWAY DISTANCE REMAINING	5
2b	2	635mm WHITE	BLACK	SE	RWY 4+343.4			RUNWAY DISTANCE REMAINING	5
3a	4	635mm WHITE	BLACK	NW	RWY 4+648.2			RUNWAY DISTANCE REMAINING	5
3b	3	635mm WHITE	BLACK	SE	RWY 4+648.2			RUNWAY DISTANCE REMAINING	5
4a	3	635mm WHITE	BLACK	NW	RWY 4+953			RUNWAY DISTANCE REMAINING	5
4b	4	635mm WHITE	BLACK	SE	RWY 4+953			RUNWAY DISTANCE REMAINING	5
13	- B	305mm BLACK	YELLOW	NW	RWY 3+835		NEW	RUNWAY EXIT	5
14	B -	305mm BLACK	YELLOW	SE	RWY 3+958			RUNWAY EXIT	5
15a	APRON	305mm BLACK	YELLOW	SW	TWY 0+830			LOCATION/DESTINATION	5
15b	11 B	305mm WHITE/YELLOW	RED/BLACK	NE	TWY 0+830			HOLDING POSITION/LOCATION	5
16a	APRON	305mm BLACK	YELLOW	NW	TWY 1+734			DESTINATION	5
16b	B 11	305mm YELLOW/BLACK	BLACK/YELLOW	SE	TWY 1+734			LOCATION/DESTINATION	5
9a	A 11-29	305mm YELLOW/BLACK	BLACK/YELLOW	NW	TWY A		EXISTING TO REMAIN	LOCATION / DESTINATION	1
9b	APRON C	305mm BLACK/BLACK	YELLOW/YELLOW	SE	TWY A		PROVIDE NEW LEGEND	DESTINATION / DIRECTION	1
10a	APRON	305mm BLACK	YELLOW	NW	TWY C		EXISTING TO REMAIN	LOCATION / DESTINATION	1
10b	- A 11-29	305mm YELLOW/BLACK	BLACK/YELLOW	SE	TWY C		EXISTING TO REMAIN	DIRECTION / DESTINATION	1
11	C	305mm YELLOW	BLACK	N	TWY C	SIGN IS AT BOTTOM OF TWY C.	PROVIDE NEW LEGEND	LOCATION	1
12	C	305mm YELLOW	BLACK	NW	TWY C		PROVIDE NEW LEGEND	LOCATION	1

NEW HANDHOLE SCHEDULE		
NUMBER	LOCATION	INSTRUCTIONS
HH-G	APRON	EXTG TO REMAIN
HH-H	RWY STA. 4+008	TO BE REMOVED
HH-I	RWY STA. 4+008	TO BE REMOVED
HH-J	RWY 11 WINDCONE	EXTG TO REMAIN
HH-L	APRON	EXTG TO REMAIN
HH-M	APRON	EXTG TO REMAIN
HH-P	RWY STA 3+654	TO BE REMOVED

HANDHOLE NOTES:

- REFER TO SHEETS H-1, H-2 FOR LOCATIONS OF HANDHOLES.
- WHERE A HANDHOLE IS REMOVED, BACKFILL HOLE WITH CRUSHED AGGREGATE BASE COURSE AND COMPACT TO 95%.

NEW MANHOLE SCHEDULE		
NUMBER	LOCATION	INSTRUCTIONS
MH-12 TO MH-16	THESE MANHOLES ARE LOCATED ALONG THE AIRPORT SERVICE ROAD AND ARE EXISTING TO REMAIN	
MH-22	APRON AND BOTTOM OF TWY A	EXISTING. ADD NEW 150MM DRAIN PIPE.
MH-27	AIRPORT SERVICE ROAD	NEW
MH-28	AIRPORT SERVICE ROAD	NEW
MH-29	TWY 1+700, 19.5 LT	NEW
MH-30	TWY 1+700, 19.5 RT	NEW
MH-31	TWY 1+500, 19.5 RT	NEW
MH-32	TWY 1+300, 19.5 RT	NEW
MH-33	TWY 1+100, 19.5 RT	NEW
MH-34	TWY 0+988, 19.5 RT	NEW
MH-35	RWY 3+952, 32 LT	NEW
MH-36	RWY 3+831.6, 32 RT	NEW
MH-37	RWY 3+959, 32 RT	NEW
MH-38	TWY 1+718, 14.2 RT 14.6 RT	NEW
MH-39	TWY 1+718, 14.2 RT 14.6 LT	NEW
MH-40	RWY 3+831.6, 32 LT.	NEW. THIS MANHOLE IS CLOSE TO EXISTING CABLES, SOME UNIDENTIFIED
MH-41	TWY B. LOCATE PER ENGINEER.	NEW. DEPTH AS REQUIRED TO MAINTAIN 1% SLOPE OF MH-22 DRAIN
MH-42	MALSR	NEW. THIS MANHOLE IS CLOSE TO EXISTING CABLES, SOME UNIDENTIFIED
MH-43	MALSR	NEW. THIS MANHOLE IS CLOSE TO EXISTING CABLES, SOME UNIDENTIFIED

MANHOLE NOTES:

- REFER TO SHEETS G5, G6, G14, G15 FOR LOCATIONS OF MANHOLES.
- PROVIDE NEW 102mm DRAIN PIPE (DUCTILE IRON) FOR ALL NEW MANHOLES. SLOPE PIPE TO DRAIN AT 1% MIN. TO DAYLIGHT INTO EITHER A DITCH OR TO DAYLIGHT OUT OF THE BANK. PROVIDE PIPE LENGTH AS NECESSARY. COVER END OF PIPE WITH 1/4" X 1/4" HEAVY GAUGE GALVANIZED MESH. SECURE MESH TO PIPE WITH STAINLESS STEEL PIPE CLAMP.
- PROVIDE NEW MANHOLES PER THE DETAILS ON SHEETS G12.
- WHERE SHOWN ON THE PLANS, DRAIN ONE MANHOLE INTO ANOTHER MANHOLE. MAKE THE DEPTH OF THE MANHOLE RECEIVING THE DRAIN DEEPER AS REQUIRED TO MAINTAIN 1% SLOPE ON THE DRAIN PIPE BETWEEN THE MANHOLES.

PATH:

PLOT: PSPAGE I=1(F) OR MSPAGE I=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

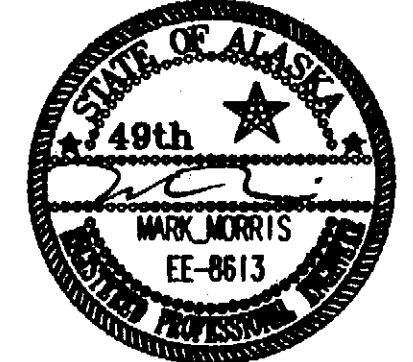
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

New Sign, Handhole, & Manhole Schedules

DESIGNED BY: M. MORRIS



CHECKED BY: M. MORRIS

DRAWN BY: M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035
New Sign, HH, & MH Schedules

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

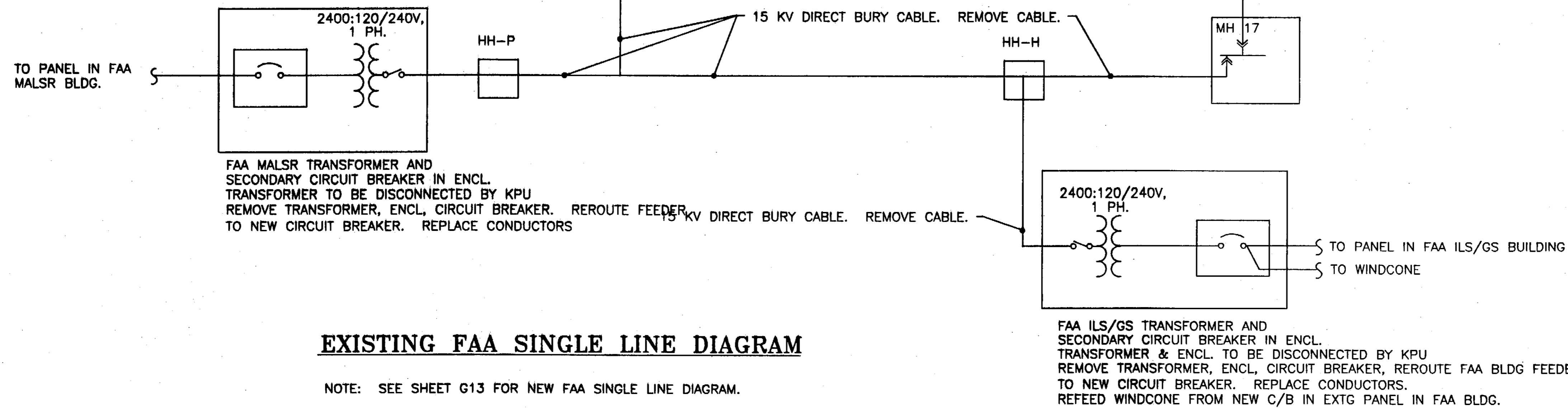
STATE	YEAR
ALASKA	2002

SHEET NUMBER	TOTAL SHEETS
G8	48

NEW TAXIWAY/RUNWAY LIGHT SCHEDULE			
NUMBER	LOCATION	NUMBER	LOCATION
T2-13	1+ 738.1, 12.2m RT	T2-15	1+ 738.1, 12.2m LT
T2-30	1+ 722.8, 12.2m RT	T2-81	1+ 722.8, 12.2m LT
T2-31	1+ 888.0, 12.2m RT	T2-80	1+ 888.0, 12.2m LT
T2-32	1+ 809.2, 12.2m RT	T2-79	1+ 809.2, 12.2m LT
T2-33	1+ 552.4, 12.2m RT	T2-78	1+ 552.4, 12.2m LT
T2-34	1+ 495.8, 12.2m RT	T2-77	1+ 495.8, 12.2m LT
T2-35	1+ 438.8, 12.2m RT	T2-76	1+ 438.8, 12.2m LT
T2-36	1+ 381.3, 12.2m RT	T2-75	1+ 381.3, 12.2m LT
T2-37	1+ 324.5, 12.2m RT	T2-74	1+ 324.5, 12.2m LT
T2-38	1+ 287.7, 12.2m RT	T2-73	1+ 287.7, 12.2m LT
T2-39	1+ 210.9, 12.2m RT	T2-72	1+ 210.9, 12.2m LT
T2-40	1+ 154.0, 12.2m RT	T2-71	1+ 154.0, 12.2m LT
T2-41	1+ 097.3, 12.2m RT	T2-70	1+ 097.3, 12.2m LT
T2-42	1+ 040.5, 12.2m RT	T2-69	1+ 040.5, 12.2m LT
T2-43	0+ 983.7, 12.2m RT	T2-68	0+ 983.7, 12.2m LT
T2-44	0+ 988.5, 12.2m RT	T2-67	0+ 988.5, 12.2m LT
T2-45	0+ 952.6, 13.2m RT	T2-66	0+ 952.6, 13.2m LT
T2-46	0+ 938.8, 14.3m RT	T2-65	0+ 938.8, 14.3m LT
T2-47	0+ 921.0, 15.4m RT	T2-64	0+ 921.0, 15.4m LT
T2-48	0+ 902, 15.95m RT	T2-63	0+ 902, 15.95m LT
T2-49	0+ 877.7, 15.95m RT	T2-62	0+ 877.7, 15.95m LT
T2-50	0+ 854.9, 15.95m RT	T2-61	0+ 854.9, 15.95m LT
T2-51	0+ 830.9, 15.95m RT	T2-60	0+ 830.9, 15.95m LT
T2-52	0+ 810.6, 15.95m RT	T2-59	0+ 810.6, 15.95m LT
T2-53	0+ 795.5, 22.85m RT	T2-58	0+ 795.5, 22.85m LT
T2-54	0+ 785.6, 38.9m RT	T2-57	0+ 785.6, 38.9m LT
T2-56	0+ 784.1, 38.9m RT	T2-56	0+ 784.1, 38.9m LT
R-17a	0+ 783.2, 38.9m RT	R-15	0+ 783.2, 38.9m LT

TAXIWAY/RUNWAY LT NOTES:

- LOCATE ALL LIGHTS WITHIN 12mm OF POSITION SHOWN. USE A LASER TO ALIGN THE LIGHTS WHEN THEY ARE IN A STRAIGHT LINE. ALIGN THE NEW RUNWAY LIGHTS WITH THE EXISTING RUNWAY LIGHTS WITHIN 12mm.



EXISTING FAA SINGLE LINE DIAGRAM

NOTE: SEE SHEET G13 FOR NEW FAA SINGLE LINE DIAGRAM.

PATH:

PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

**KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035**

**New Taxiway & Runway
Light Schedule, & Runway
Existing FAA Power Single
Line Diagram**

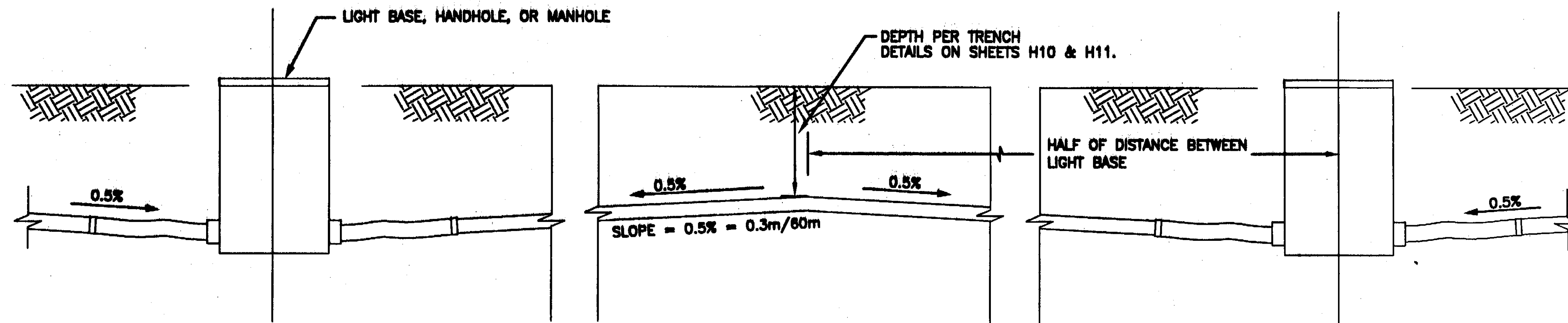
DESIGNED BY: M. MORRIS

CHECKED BY: M. MORRIS

DRAWN BY: M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035
**TWY LTG Sch.
FAA Single Line**

PROJECT DESIGNATION NUMBER	
AIP NO. 3-02-0144-1402	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G9	48

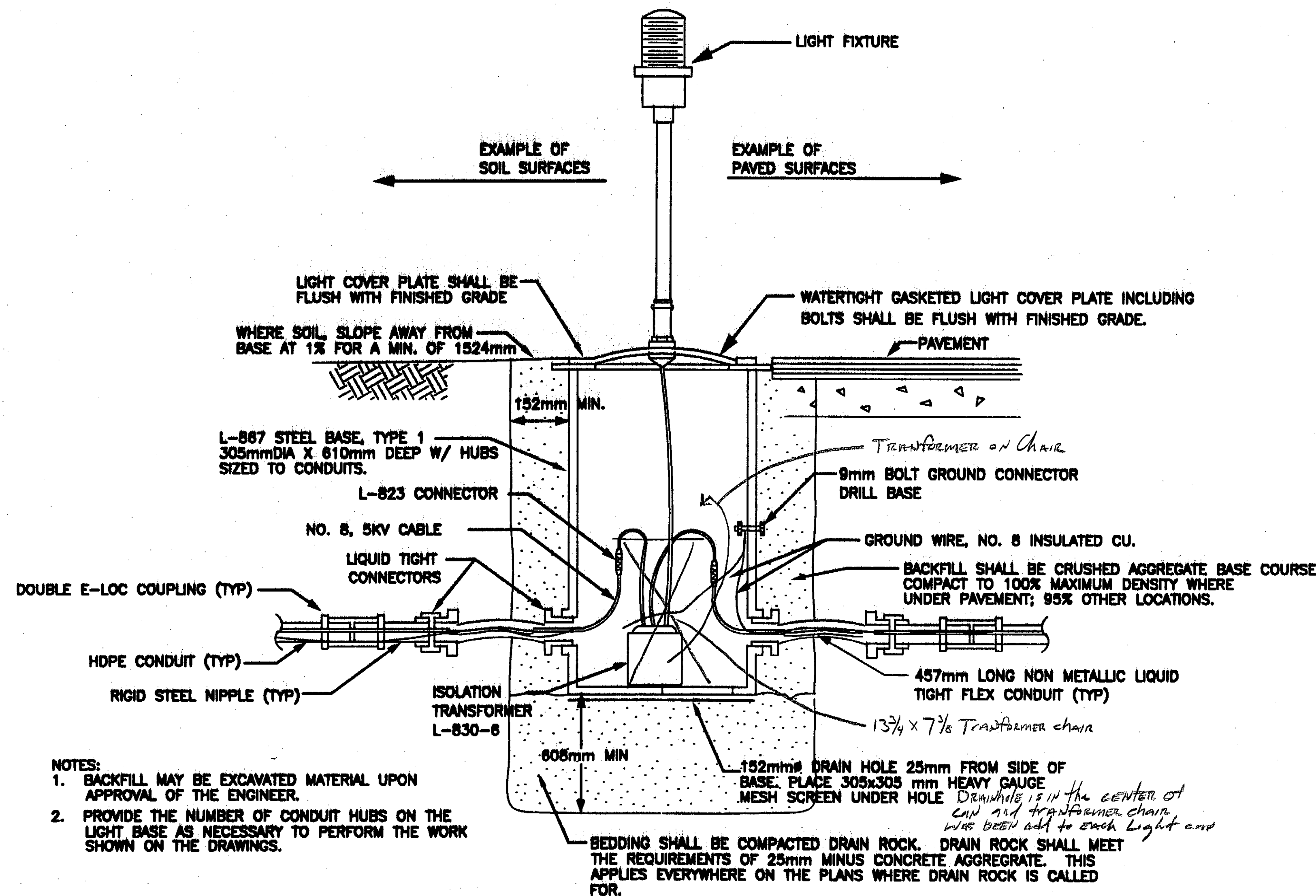


DETAIL: CONDUIT INSTALLATION (TYP)

NO SCALE

NOTES:

1. ALL CONDUIT SHALL BE SLOPED TO DRAIN.
2. REFER TO HANDHOLE, MAN HOLE, OR EDGE LIGHT DETAILS THIS SHEET & H12 FOR CONNECTIONS TO HANDHOLES, MAN HOLES, OR L-867 BASES.
3. WHERE THE FINISHED GRADE SLOPE BETWEEN TWO LIGHT BASES, OR A LIGHT BASE AND A MANHOLE EXCEEDS 0.25%, INSTALL THE CONDUIT AT A CONSTANT SLOPE BETWEEN TERMINATIONS, OTHERWISE SLOPE CONDUIT AS SHOWN ABOVE.



DETAIL: TAXIWAY/RUNWAY EDGE LIGHT (TYP)

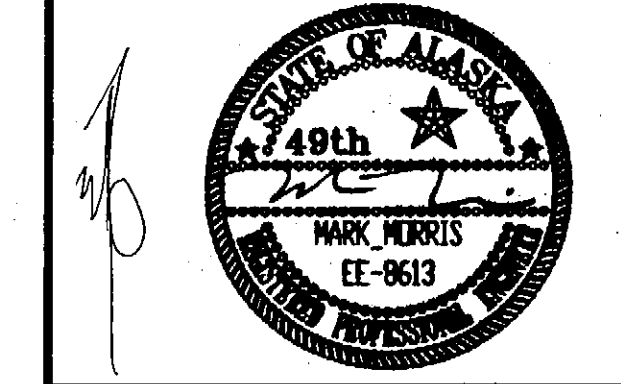
NO SCALE

- NOTES:**
1. BACKFILL MAY BE EXCAVATED MATERIAL UPON APPROVAL OF THE ENGINEER.
 2. PROVIDE THE NUMBER OF CONDUIT HUBS ON THE LIGHT BASE AS NECESSARY TO PERFORM THE WORK SHOWN ON THE DRAWINGS.

PATH		
PLDT: PSPACE 1=(F) DR MSPACE 1=(F)		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035
Taxiway/Runway Light & Conduit Details

DESIGNED BY: M. MORRIS



CHECKED BY: M. MORRIS

DRAWN BY: M.L.

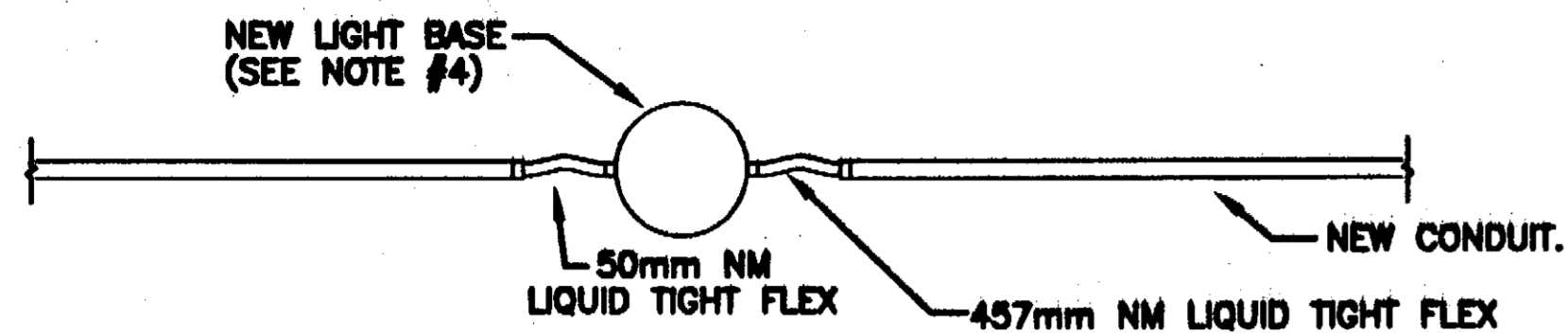
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
 KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

Twy & Rwy Light & Conduit Details

PROJECT DESIGNATION NUMBER

AIP NO. 3-02-0144-1402

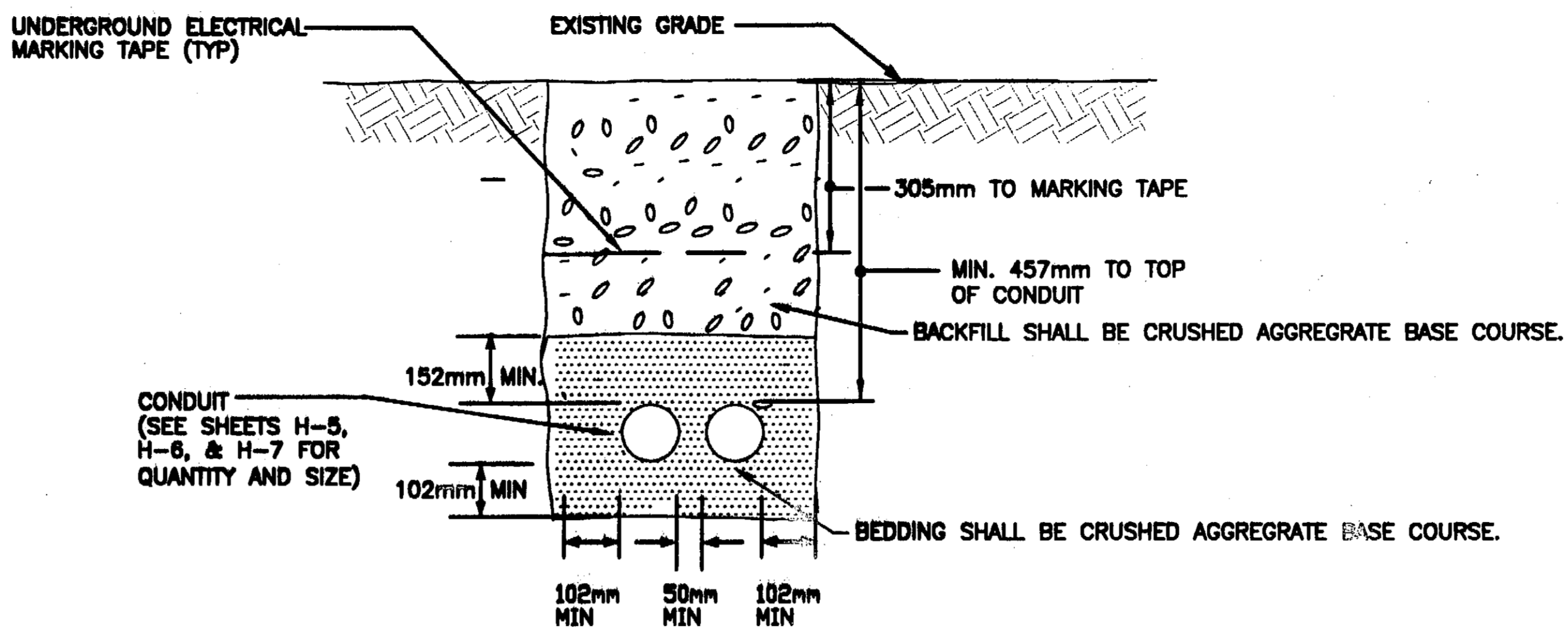
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G10	48



DETAIL: LIGHT BASE & CONDUIT INSTALLATION (TYP)
NO SCALE

NOTES:

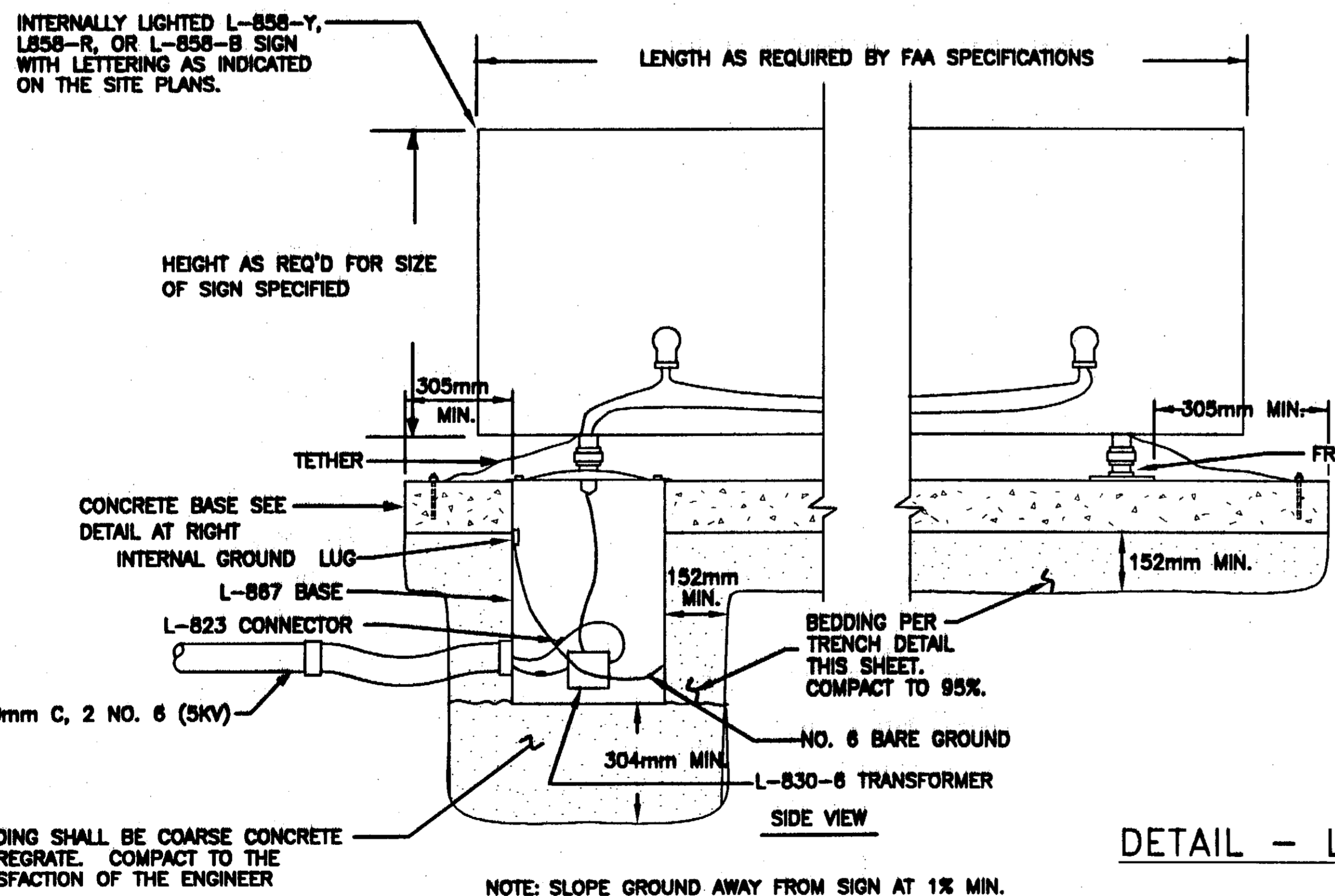
1. REMOVE THE EXISTING LIGHT BASES AND THE EXISTING CABLES WHERE SHOWN.
2. WHERE THE EXISTING LIGHTS ARE IN ASPHALT, CUT THE ASPHALT A MINIMUM OF 1.371m WIDE. IF MORE ROOM IS NEEDED TO PLACE THE LIGHT BASE, WIDEN THE ENTIRE CUT TO AT LEAST 457mm WIDER THAN THE WIDTH OF THE EXCAVATION ON EACH SIDE OF THE TRENCH.
3. WHEN REMOVING LIGHTS, PATCH THE ASPHALT PER THE TRENCH DETAIL ON SHEET H12.
4. INSTALL THE NEW RUNWAY LIGHT BASES 3.0m FROM THE OUTSIDE EDGE OF THE RUNWAY EDGE LINE TO THE CENTER OF THE LIGHT LENS. INSTALL THE NEW TAXIWAY LIGHT BASES 3.0m FROM THE OUTSIDE EDGE OF THE TAXIWAY EDGE LINE TO THE CENTER OF THE LIGHT LENS.
5. INSTALL THE CONDUIT IN A STRAIGHT LINE BETWEEN THE LIGHT BASES.
6. INSTALL THE NEW TAXIWAY LIGHTS PRIOR TO THE NEW ASPHALT. PAVE AROUND THE LIGHTS SO THE LIGHT BASE IS FLUSH WITH THE ASPHALT.



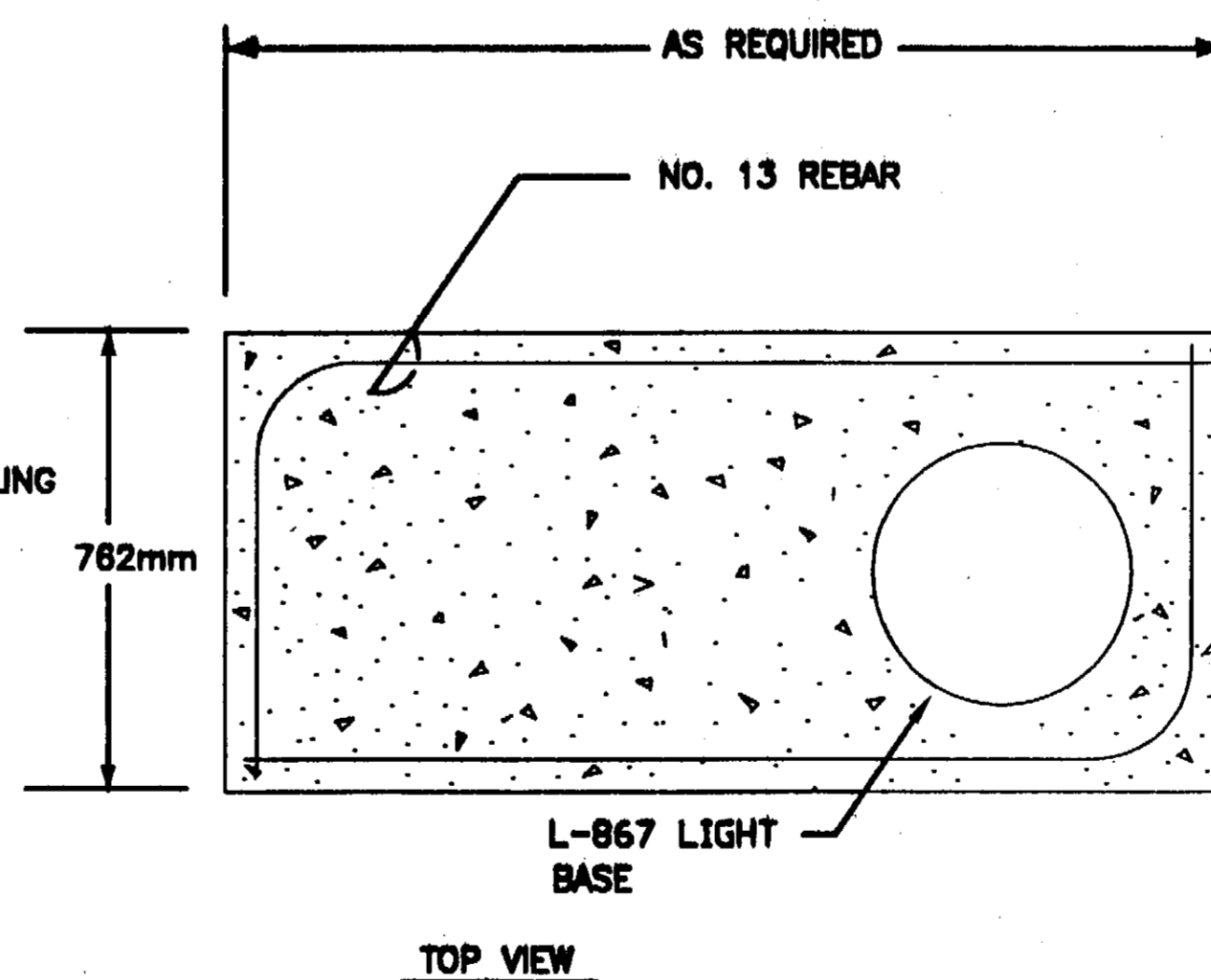
DETAIL: CONDUIT TRENCH
NO SCALE

NOTES:

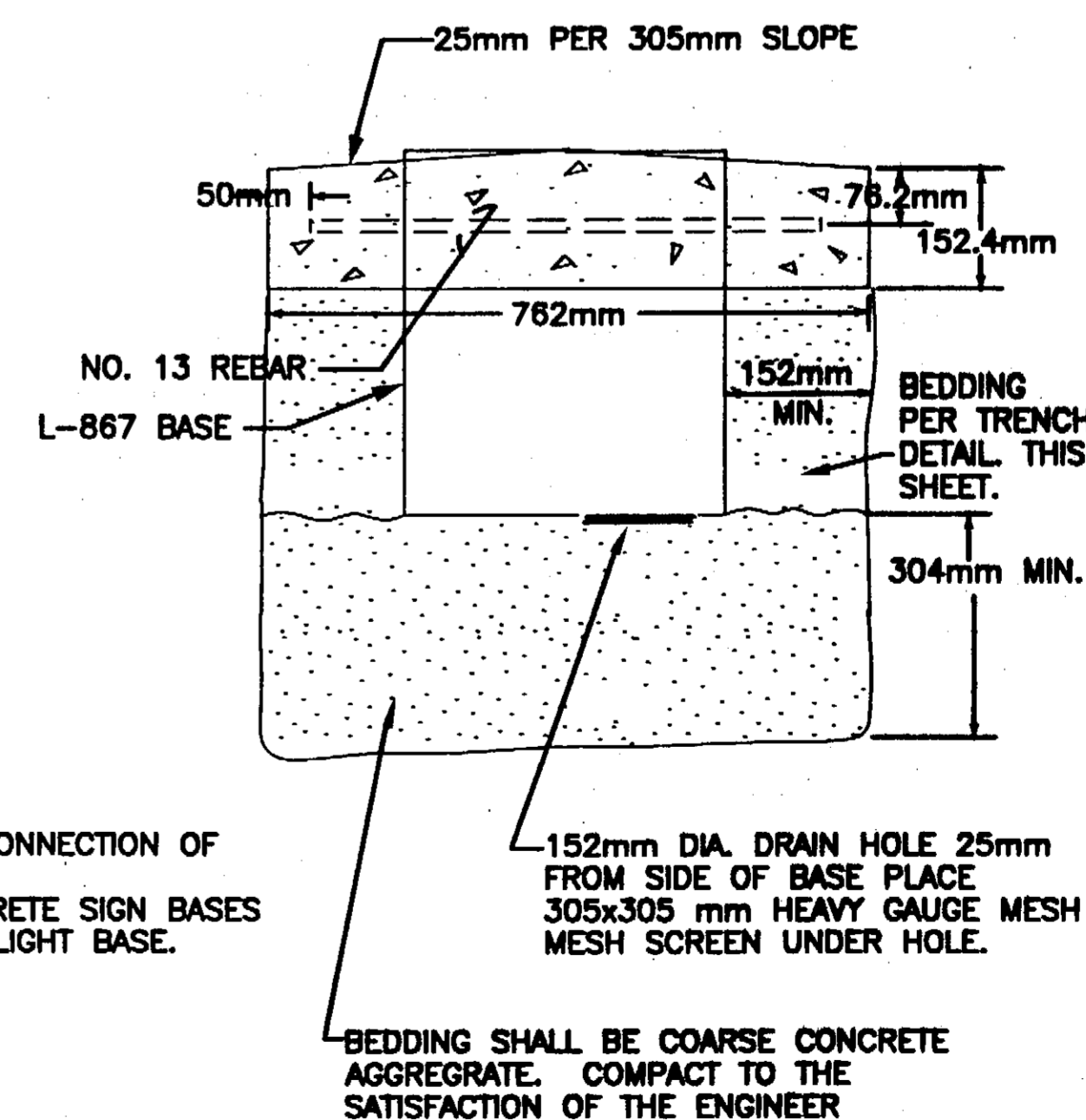
1. THIS IS A TYPICAL TRENCH SECTION SHOWING MINIMUM DIMENSIONS AND REQUIRED MATERIALS. CONFIGURE ALL TRENCHES AS NECESSARY TO COMPLY WITH DIMENSIONS SHOWN.
2. BURY ALL CONDUIT AT 457mm MINIMUM BELOW FINISH GRADE UNLESS OTHERWISE NOTED.
3. SLOPE CONDUIT AT 0.5% MIN. PER DETAIL ON SHEET H-9.
4. TRENCH BEDDING AND BACKFILL TO BE COMPACTED TO 95% MAXIMUM DENSITY.
5. SEE SHEETS H-5, H-6, & H-7 FOR NUMBER OF CONDUITS IN TRENCH.
6. WHERE TRENCHING THROUGH EXISTING ASPHALT, PATCH ASPHALT PER TRENCH DETAIL, SHEET H-12.



DETAIL - LIGHTED SIGN
NO SCALE



- NOTES:**
1. REFER TO HANDHOLE DETAIL ON SHEET H-12 FOR CONNECTION OF CONDUITS TO L-867 BASE.
 2. WHEN RELOCATING A SIGN, RELOCATE EXISTING CONCRETE SIGN BASES OR PROVIDE NEW CONCRETE BASES INCLUDING THE LIGHT BASE.
 3. PROVIDE CONCRETE PER SECTION P-610.



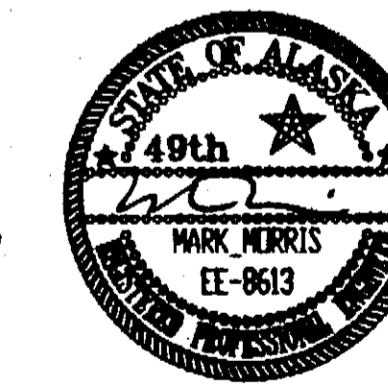
END VIEW

PATH:		
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

**Sign and Conduit
Details**

DESIGNED BY: M. MORRIS



CHECKED BY: M. MORRIS

DRAWN BY: M.L.

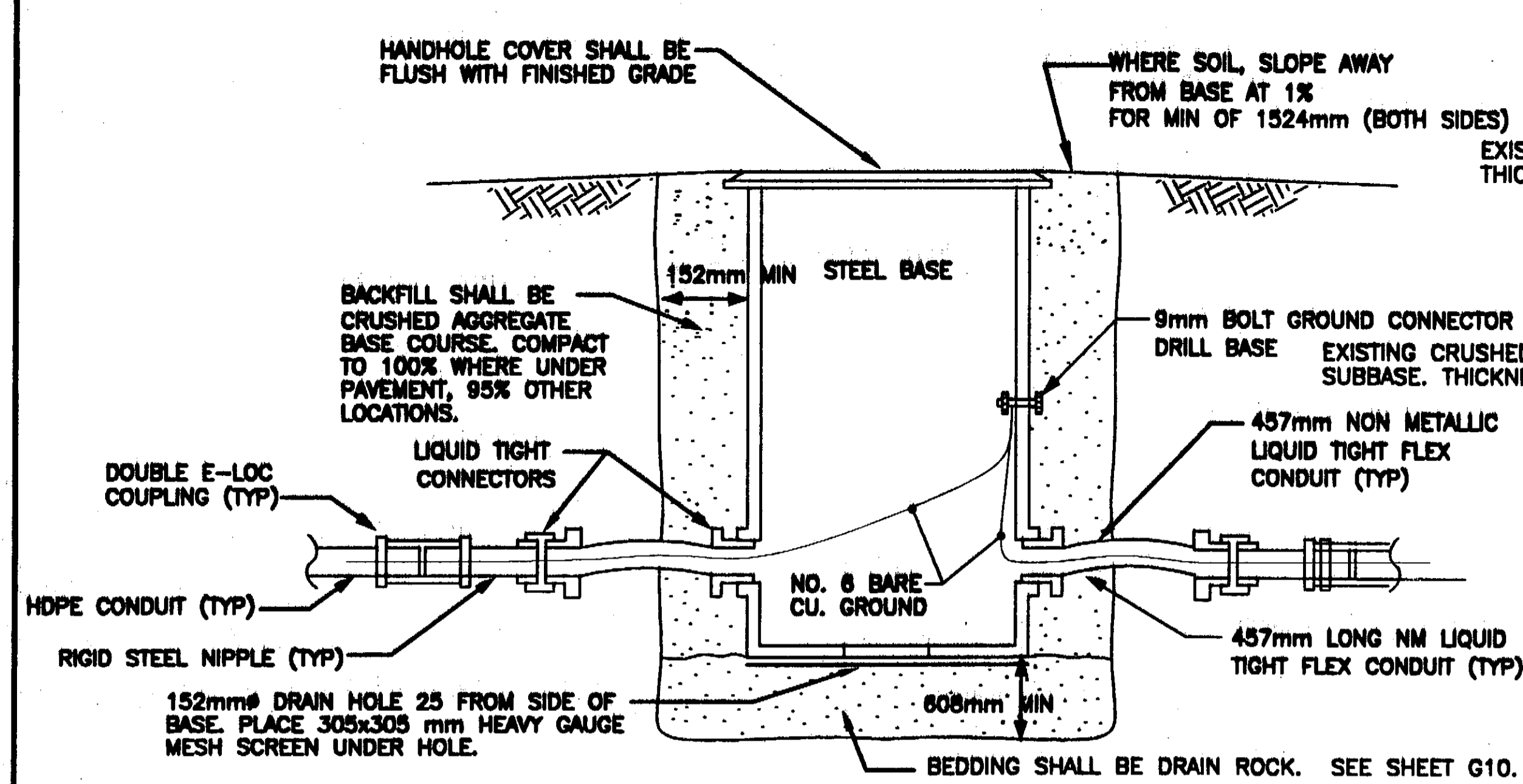
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

**Sign & Conduit
Details**

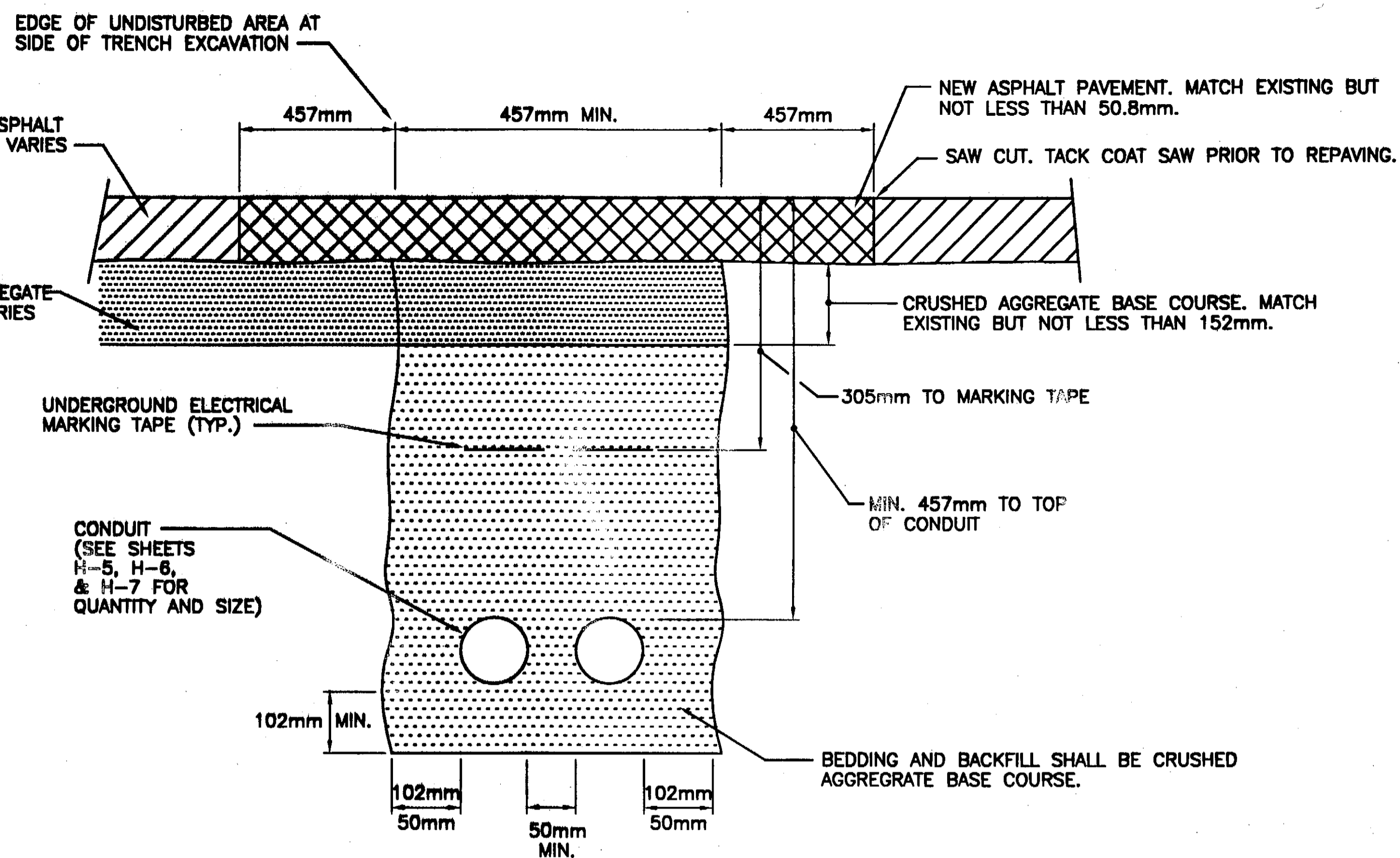
PROJECT DESIGNATION NUMBER

AIP NO. 3-02-0144-1402

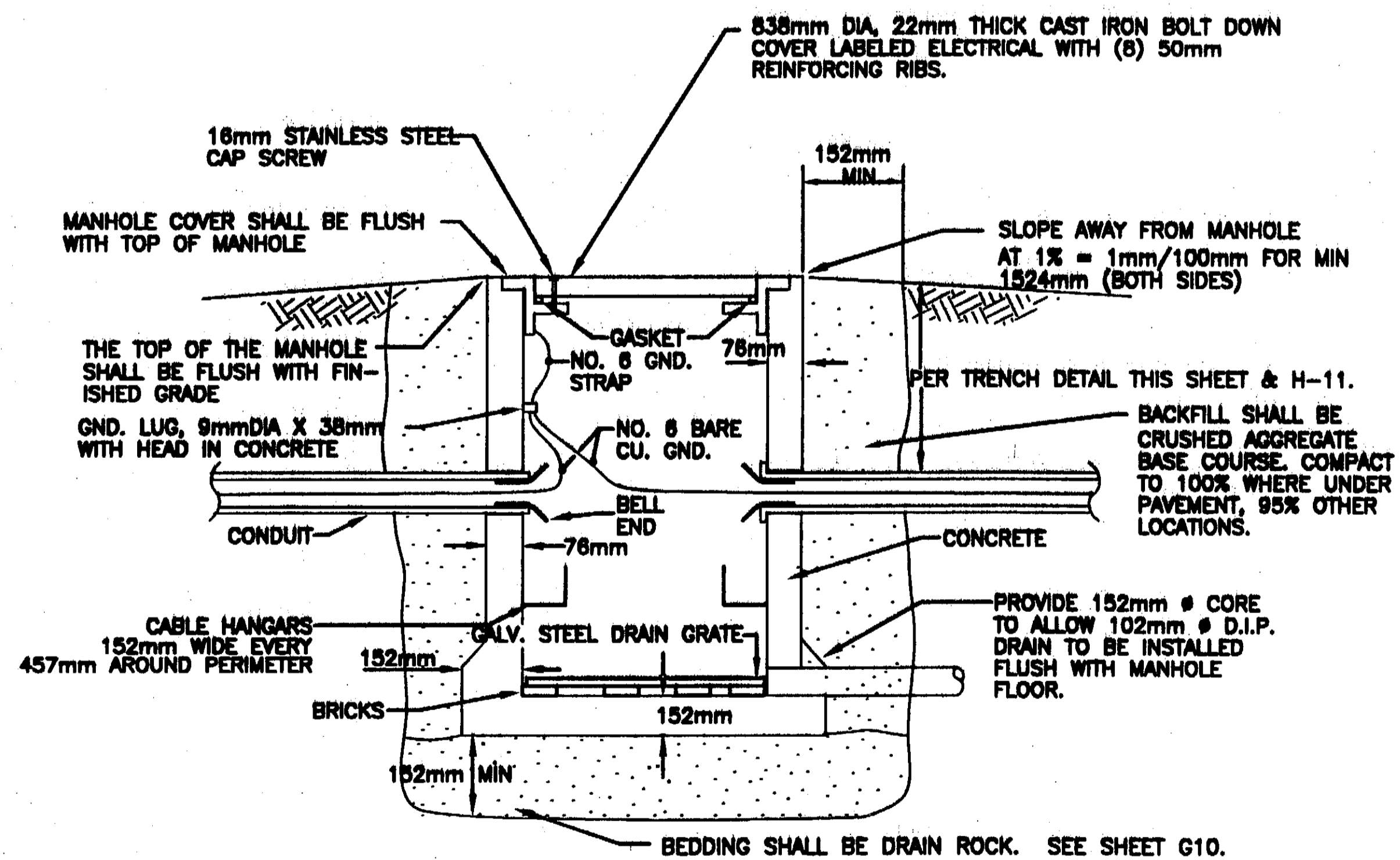
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G11	48



DETAIL: HANDHOLE (TYP)
NO SCALE



DETAIL: CONDUIT TRENCH WITHIN PAVED AREAS TO BE PATCHED
NO SCALE



DETAIL: MANHOLE (TYP)
NO SCALE

- NOTE:
- MANHOLES SHALL BE 1219mm WIDE 1219mm LONG X 914mm DEEP OUTSIDE DIMENSIONS. UTILVAULT 443-LA OR APPROVED EQUAL. INCREASE DEPTH AS REQUIRED TO MAINTAIN DRAINAGE BETWEEN MANHOLES AT 1% MIN. SLOPE. SEE SHEETS
 - THE COVERS FOR MANHOLES CONTAINING POWER CABLES SHALL BE LABELED "ELECTRICAL".
 - PROVIDE 102mm DRAINS FOR ALL MANHOLES. SLOPE AT 1% MIN. TO DAYLIGHT. PROVIDE LENGTH AS NECESSARY.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

- NOTES:
- THIS IS A TYPICAL TRENCH SECTION SHOWING MINIMUM DIMENSIONS AND REQUIRED MATERIALS. CONFIGURE ALL TRENCHES AS NECESSARY TO COMPLY WITH DIMENSIONS SHOWN.
 - BURY ALL CONDUIT AT 457mm MINIMUM BELOW FINISH GRADE UNLESS OTHERWISE NOTED.
 - SLOPE CONDUIT AT 0.5% MIN. PER DETAIL ON SHEET H-10.
 - TRENCH BEDDING AND BACKFILL TO BE COMPACTED TO 95% MAXIMUM DENSITY.
 - CRUSHED AGGREGATE BASE COURSE TO BE COMPACTED TO 100% MAXIMUM DENSITY FOR TOP 150mm.
 - SEE SHEETS G5, G6, & G7 FOR NUMBER OF CONDUITS IN TRENCH.
 - RETURN PAVEMENT TO THE CONDITION IT WAS PRIOR TO MAKING THE SAW CUT.

PATH:

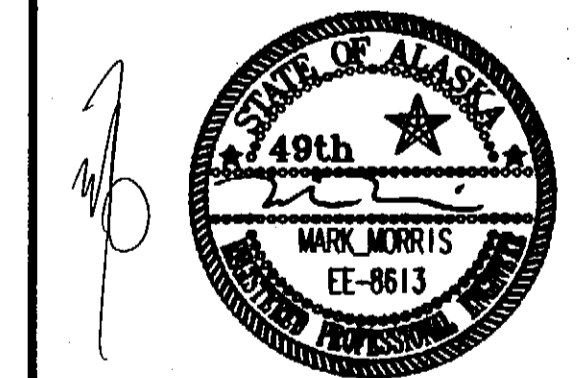
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER
ATTACHMENT NUMBER
RECORD OF REVISIONS
No. DATE DESCRIPTION

KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

Handhole, Manhole, & Trench Details

DESIGNED BY: M. MORRIS



CHECKED BY: M. MORRIS

DRAWN BY: M.L.

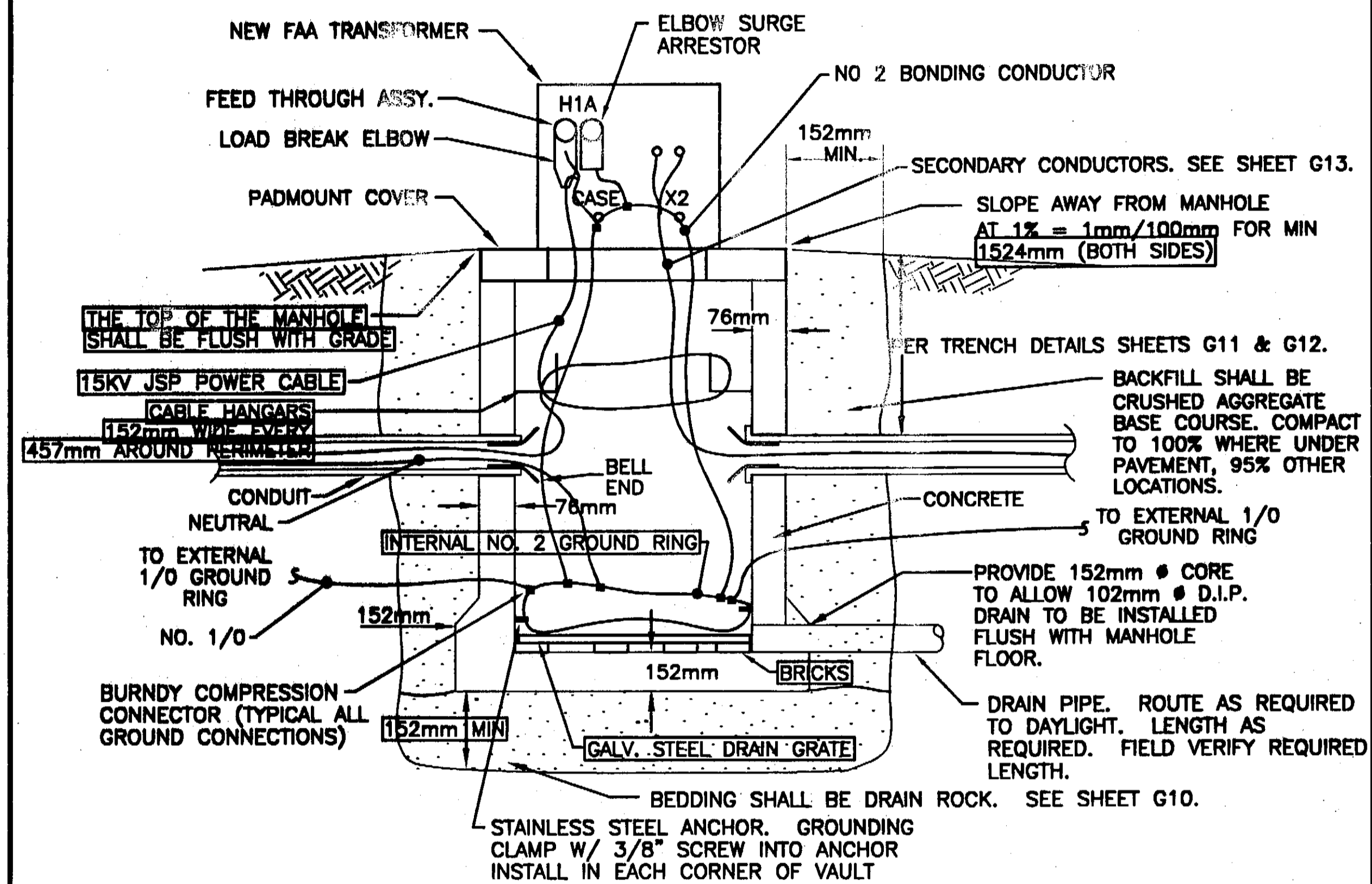
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

HH, MH, & Trench Details

PROJECT DESIGNATION NUMBER

AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G12	48



DETAIL: NEW FAA TRANSFORMER

NO SCALE

NOTE:

1. INSTALL TRANSFORMER ON A VAULT. THE VAULT SHALL BE 1219mm WIDE X 1219mm LONG X 1219mm DEEP OUTSIDE DIMENSIONS WITH PADMOUNT LID. UTILVAULT 444-LA WITH 44-2124 LID OR APPROVED EQUAL. INCREASE DEPTH AS REQUIRED TO MAINTAIN DRAINAGE BETWEEN MANHOLES AND VAULT AT 1% MIN. SLOPE WHERE VAULT IS LOCATED NEAR A MANHOLE. PROVIDE A DRAIN PIPE OUT OF THE VAULT AND ROUTE IT AT A 1% MIN. SLOPE TO A POINT ON THE AIRPORT WHERE IT WILL DAYLIGHT INTO A DITCH OR OUT OF A SLOPE.
2. PROVIDE A 1/0 BARE COPPER GROUND RING 4 FEET BELOW GRADE AROUND THE OUTSIDE OF THE VAULT. CONNECT THE GROUND RING TO AN INTERNAL NO. 2 GROUND RING INSIDE THE VAULT WITH TWO 1/0 BONDING JUMPERS. DRIVE TWO GROUND RODS OUTSIDE THE VAULT AND CONNECT THEM TO THE 1/0 GROUND RING. ROUTE A NO. 2 GROUND BONDING CONDUCTOR FROM THE INTERNAL RING UP TO THE TRANSFORMER CASE GROUND AND THE X2 LUG ON THE SECONDARY SIDE THEN BACK TO THE INTERNAL RING. BOND A NO. 6 MIN. GROUND CONDUCTOR TO THE NO. 2 CONDUCTOR AND TO THE CABLE SHIELD ADAPTER AND THE ELBOW. ALSO BOND THE NO. 4 GROUND CONDUCTOR FROM THE SURGE ARRESTOR TO THE NO. 2 CONDUCTOR. BOND THE NEUTRAL TO THE INTERNAL GROUND RING.
3. PROVIDE A COLD SHRINK JACKET OVER THE CABLE SHIELD ADAPTER CAP AND THE BOTTOM OF THE LOAD BREAK ELBOW. USE A CABLE ACCESSORY SEALING KIT. 3M 8452.
4. LOOP ALL NON-GROUND CONDUCTORS AROUND VAULT AT LEAST ONCE BEFORE TERMINATING THEM.
5. FOR THE TRANSFORMER BEING INSTALLED AT THE TERMINAL BUILDING, VAULT EXTENSION RINGS MAY BE STACKED ON TOP OF THE EXISTING PAD WITH A PADMOUNT LID ON TOP OF THE RINGS INSTEAD OF INSTALLING A L-444A VAULT IN THE GROUND. PROVIDE THE SAME GROUNDING AS SHOWN FOR THE TRANSFORMER INSTALLED ON THE VAULT.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH:

PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

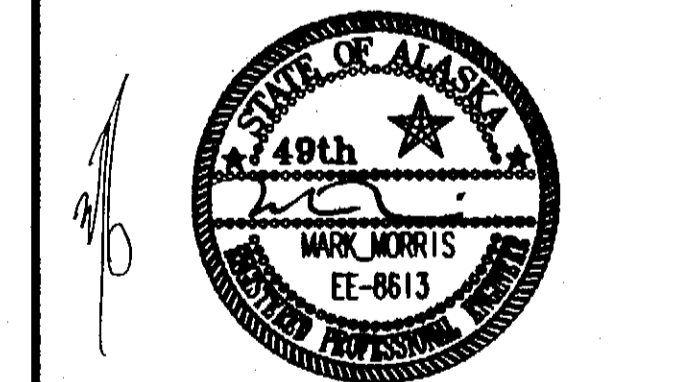
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

**KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035**

**New FAA Transformer
Detail**

DESIGNED BY: M. MORRIS



CHECKED BY: M. MORRIS

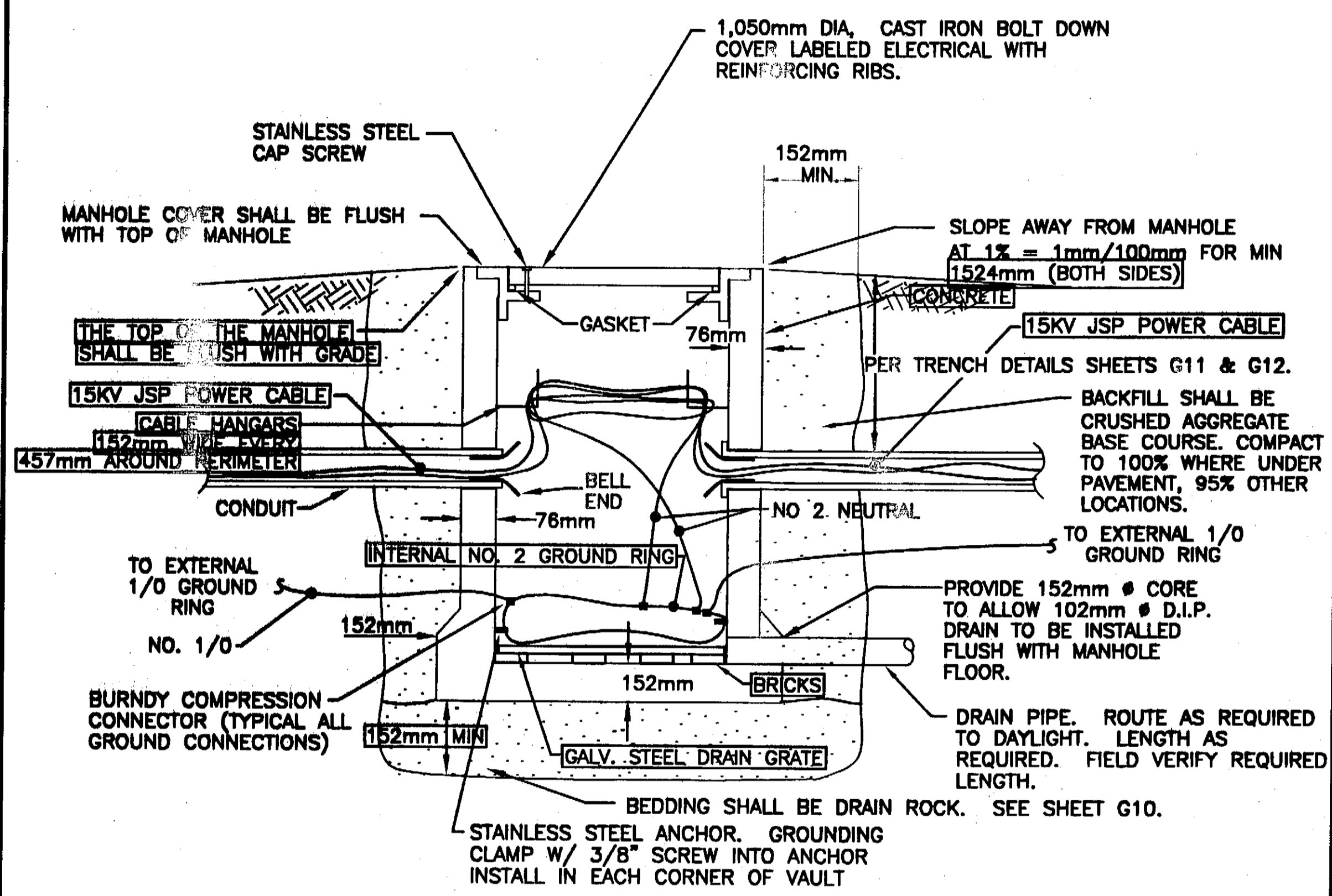
DRAWN BY: M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
**KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035**
**FAA Transformer
Detail**

PROJECT DESIGNATION NUMBER

AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G13A	48



DETAIL: NEW FAA MANHOLE

- NOTE: NO SCALE
1. THE FAA MANHOLE SHALL BE 1,523mm WIDE 2,133mm LONG X 1,523mm DEEP OUTSIDE DIMENSIONS WITH A 1,050mm DIA CAST IRON COVER. UTILVAULT 575-LA WITH 57TL-42C WITH 4210-4220 RING WITH 4210-S LID OR EQUAL. INCREASE DEPTH AS REQUIRED TO MAINTAIN DRAINAGE BETWEEN MANHOLES AT 1% MIN. SLOPE WHEN USING ONE MANHOLE TO DRAIN ANOTHER. PROVIDE A DRAIN PIPE OUT OF THE MANHOLE AND ROUTE IT AT A 1% MIN. SLOPE TO A POINT ON THE AIRPORT WHERE IT WILL DAYLIGHT INTO A DITCH OR OUT OF A SLOPE.
 2. PROVIDE A 1/0 BARE COPPER GROUND RING 4 FEET BELOW GRADE AROUND THE OUTSIDE OF THE MANHOLE. CONNECT THE GROUND RING TO AN INTERNAL NO. 2 GROUND RING INSIDE THE MANHOLE WITH TWO 1/0 BONDING JUMPERS. DRIVE TWO GROUND RODS OUTSIDE THE MANHOLE AND CONNECT THEM TO THE 1/0 GROUND RING. BOND THE NEUTRAL TO THE NO. 2 GROUND RING WITH IRREVERSIBLE TYPE CONNECTORS (BURNDY OR EQUAL)
 3. LOOP ALL NON-GROUND CONDUCTORS AROUND VAULT AT LEAST ONCE BEFORE TERMINATING THEM.

NOTE: DO NOT SCALE FROM THESE PLANS--USE DIMENSIONS

PATH:

PLOT: PSPACE 1=1(F) OR MSPAGE 1=1(F)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

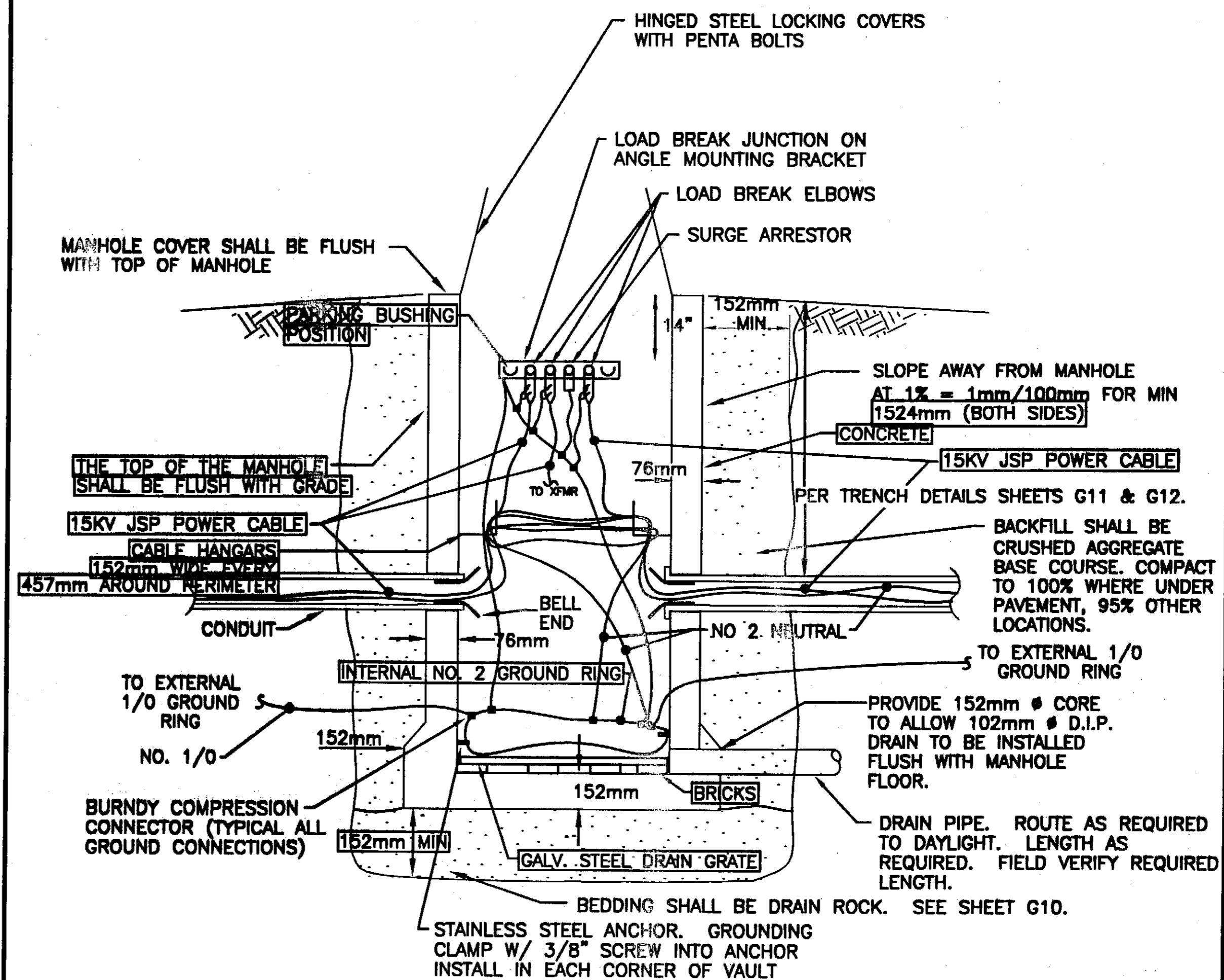
KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035
New FAA Manhole Detail

DESIGNED BY: M. MORRIS

CHECKED BY: M. MORRIS
 DRAWN BY: M.L.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
 KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035
**FAA Manhole
 Detail**

PROJECT DESIGNATION NUMBER	
AIP NO. 3-02-0144-1402	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G13B	48



DETAIL: NEW FAA MANHOLE W/ LOAD BREAK JUNCTION

NOTE: NO SCALE

1. THE FAA MANHOLE SHALL BE 1,523mm WIDE X 2,133mm LONG X 1,523mm DEEP OUTSIDE DIMENSIONS WITH A LOCKING STEEL PENTA BOLTED COVER. UTILVAULT 575-LA WITH 57TL-2-342P COVER OR APPROVED EQUAL. INCREASE DEPTH AS REQUIRED TO MAINTAIN DRAINAGE BETWEEN MANHOLES AT 1% MIN. SLOPE WHEN USING ONE MANHOLE TO DRAIN ANOTHER. PROVIDE A DRAIN PIPE OUT OF THE MANHOLE AND ROUTE IT AT A 1% MIN. SLOPE TO A POINT ON THE AIRPORT WHERE IT WILL DAYLIGHT INTO A DITCH OR OUT OF A SLOPE.
2. PROVIDE A LOAD BREAK JUNCTION IN THE VAULT. MOUNT THE JUNCTION ON UNISTRUT CAST INTO THE VAULT 14" BELOW THE BOTTOM OF THE COVER. ANGLE THE LOAD BREAK JUNCTION SO THAT A FULL LENGTH HOT STICK MAY BE USED TO REMOVE THE ELBOWS AND PARK THEM ON THE PARKING BUSHINGS. GO OVER THE INSTALLATION OF THE JUNCTION WITH THE PROJECT ENGINEER PRIOR TO PERFORMING THE WORK.
3. PROVIDE A 1/0 BARE COPPER GROUND RING 4 FEET BELOW GRADE AROUND THE OUTSIDE OF THE MANHOLE. CONNECT THE GROUND RING TO AN INTERNAL NO. 2 GROUND RING INSIDE THE MANHOLE WITH TWO 1/0 BONDING JUMPERS. DRIVE TWO GROUND RODS OUTSIDE THE MANHOLE AND CONNECT THEM TO THE 1/0 GROUND RING. BOND THE NEUTRAL TO THE NO. 2 GROUND RING WITH IRREVERSIBLE TYPE CONNECTORS (BURNDY OR EQUAL). ROUTE A NO. 2 BONDING CONDUCTOR FROM THE INTERNAL GROUND RING TO THE LOAD BREAK JUNCTION BAR. BOND A NO. 6 GROUNDING JUMPER FROM EACH ELBOW AND CABLE SHIELD ADAPTER TO THE NO. 2 BONDING CONDUCTOR. BOND THE NO. 4 GROUNDING CONDUCTOR FROM THE SURGE ARRESTOR TO THE NO. 2 BONDING CONDUCTOR.
4. LOOP ALL NON-GROUND CONDUCTORS AROUND VAULT AT LEAST ONCE BEFORE TERMINATING THEM.

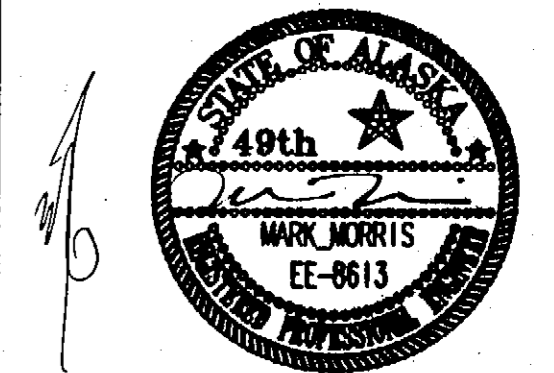
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH:		
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

**New FAA Manhole Detail
 with Load Break Junction**

DESIGNED BY: M. MORRIS



CHECKED BY: M. MORRIS

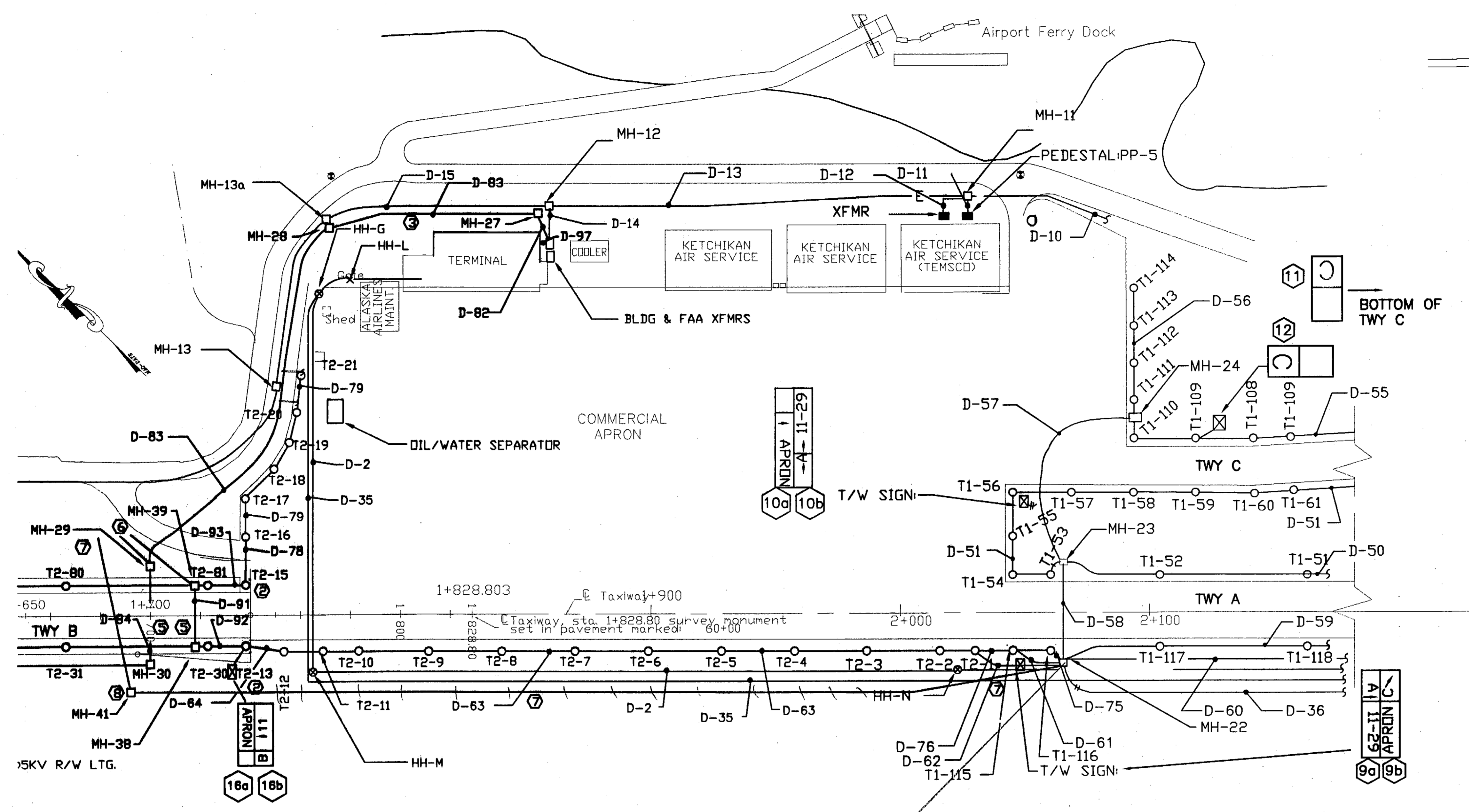
DRAWN BY: M.L.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
 KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035
**FAA Manhole
 w/ Junction Detail**

PROJECT DESIGNATION NUMBER

AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G13C	48



SITE PLAN - APRON

- NOTES:
- ① NOT USED THIS SHEET.
 - ② REPLACE T2-13 AND T2-15. INSTALL THEM WHERE SHOWN.
 - ③ CUT AND PATCH ASPHALT, CONCRETE, CURB & GUTTER, AND OTHER OBSTRUCTIONS AS REQUIRED IN ORDER TO INSTALL D-82, D-83, MH-27, & MH-28. SEE SHEET G15 FOR AN ENLARGED PLAN OF THIS AREA.
 - ④ NOT USED THIS SHEET.
 - ⑤ ROUTE A DRAIN PIPE FROM MH-30 TO MH-29 AND FROM MH-38 TO MH-39.
 - ⑥ DRAIN PIPES FOR MH-29 AND MH-39. LENGTH AS REQUIRED TO DAYLIGHT.
 - ⑦ DRAIN PIPE FOR MH-22. LENGTH AS REQUIRED TO DAYLIGHT.
 - ⑧ LOCATE MH-41 AT BEND IN DRAIN PIPE. LOCATE MH-41 AS DIRECTED BY PROJECT ENGINEER. DO NOT LOCATE IT IN A DITCH.

PATH:

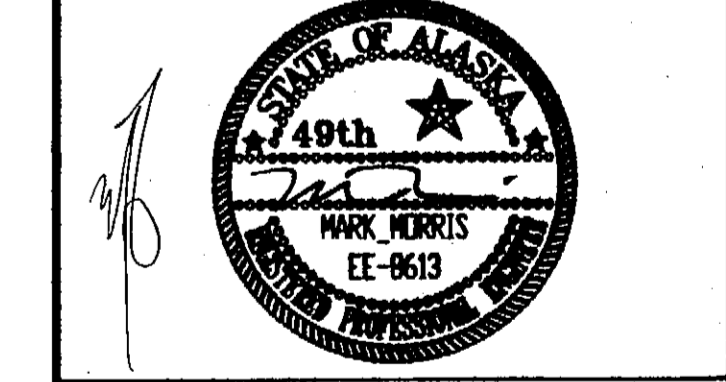
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

**KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035**

**New Lighting & Power -
Apron**

DESIGNED BY: M. MORRIS



CHECKED BY: M. MORRIS
DRAWN BY: M.L.

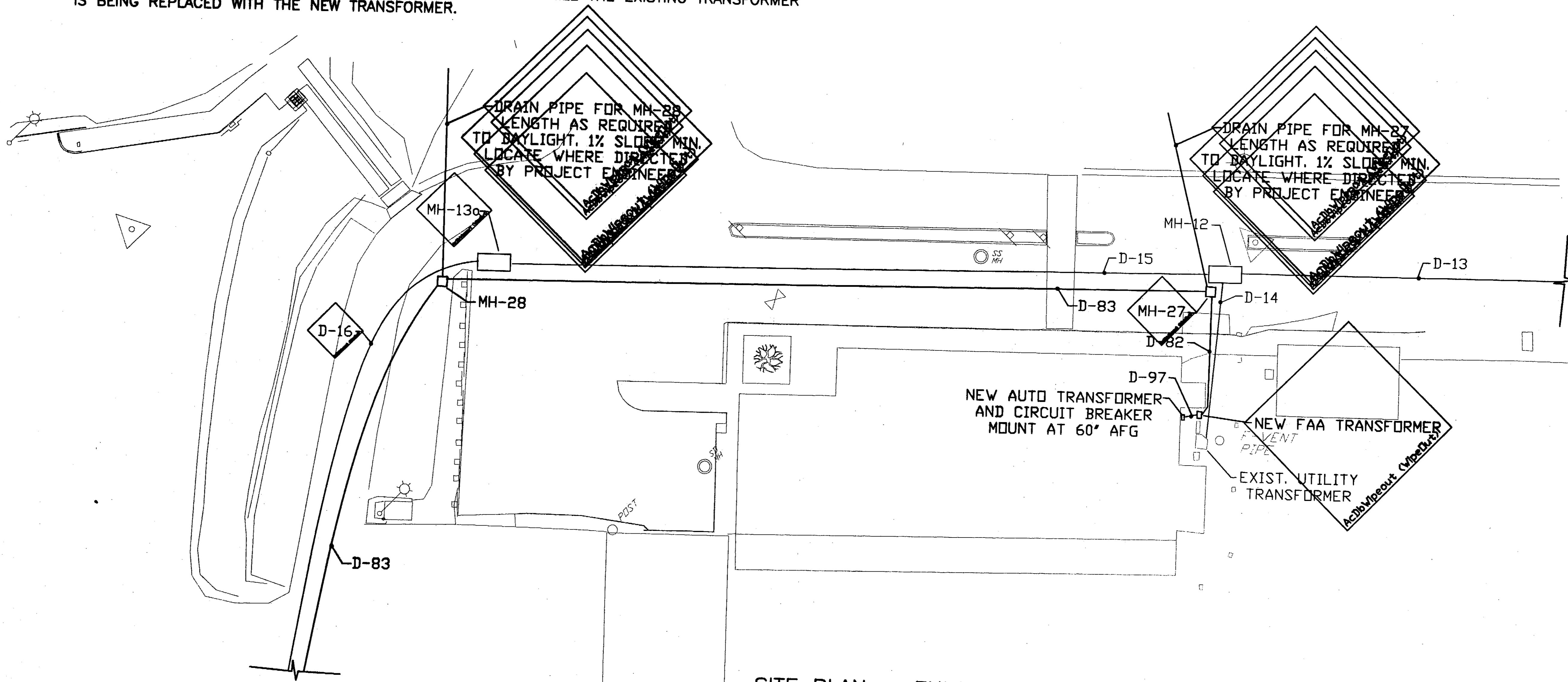
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035
**New Lighting &
Power - Apron**

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G14	48

NOTES:

1. REMOVE EXISTING FAA TRANSFORMER PAD AFTER KPU HAS TEMPORARILY RELOCATED THE TRANSFORMER. REMOVE EXISTING ASPHALT AS REQUIRED FOR KPU TO RELOCATE AND RE-POWER THE FAA TRANSFORMER WHILE THE NEW FAA TRANSFORMER IS BEING INSTALLED. POWER ALL EQUIPMENT FED BY THE FAA TRANSFORMER WHILE IT IS OUT OF SERVICE.
2. REMOVE EXISTING ASPHALT, CONCRETE, ETC. AS NEEDED TO ALLOW KPU TO INSTALL THE NEW FAA TRANSFORMER AND IT'S PAD.
3. CUT AND PATCH ASPHALT, CONCRETE, CURB & GUTTER, AND OTHER OBSTRUCTIONS AS REQUIRED IN ORDER TO INSTALL D-82, D-83, MH-27, & MH-28 AND TO PERFORM ALL OTHER WORK REQUIRED IN THIS AREA. REMOVE PORTIONS OF GATE AS REQUIRED AND MAINTAIN SECURITY AT THE GATE PER THE AIRPORT MANAGER'S REQUIREMENTS WHILE GATE IS NOT FUNCTIONING.
4. PROVIDE A NEW AUTOTRANSFORMER AND CIRCUIT BREAKER IN A NEMA 4X VENTED STAINLESS STEEL ENCLOSURE. WALL MOUNT ENCLOSURE WHERE DIRECTED BY PROJECT ENGINEER. ROUTE NEW CONDUIT AND CONDUCTORS TO NEW PADMOUNT FAA TRANSFORMER FOR CONNECTION BY KPU. KEEP EXISTING AUTOTRANSFORMER IN SERVICE BY RE-FEEDING IT AFTER KPU HAS RELOCATED THE EXISTING FAA TRANSFORMER. ROUTE NEW CONDUIT FROM THE NEW FAA TRANSFORMER TO NEW MH-27.
5. IF KPU DOES NOT WANT TO TEMPORARILY RELOCATE THE EXISTING FAA TRANSFORMER, THEN KEEP ALL EQUIPMENT FED BY THE TRANSFORMER POWERED WHILE THE EXISTING TRANSFORMER IS BEING REPLACED WITH THE NEW TRANSFORMER.



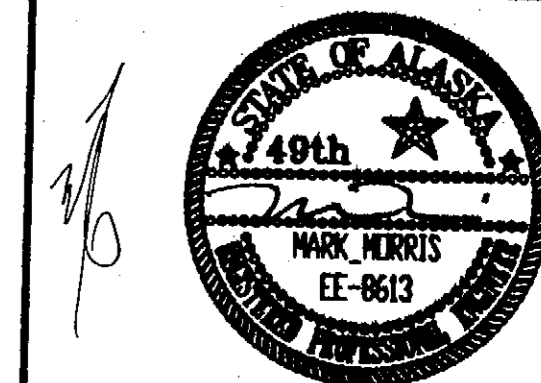
SITE PLAN - ENLARGED TERMINAL AREA

PATH		
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

**Power -
Enlarged Terminal Area**

DESIGNED BY: M. MORRIS



CHECKED BY: M. MORRIS

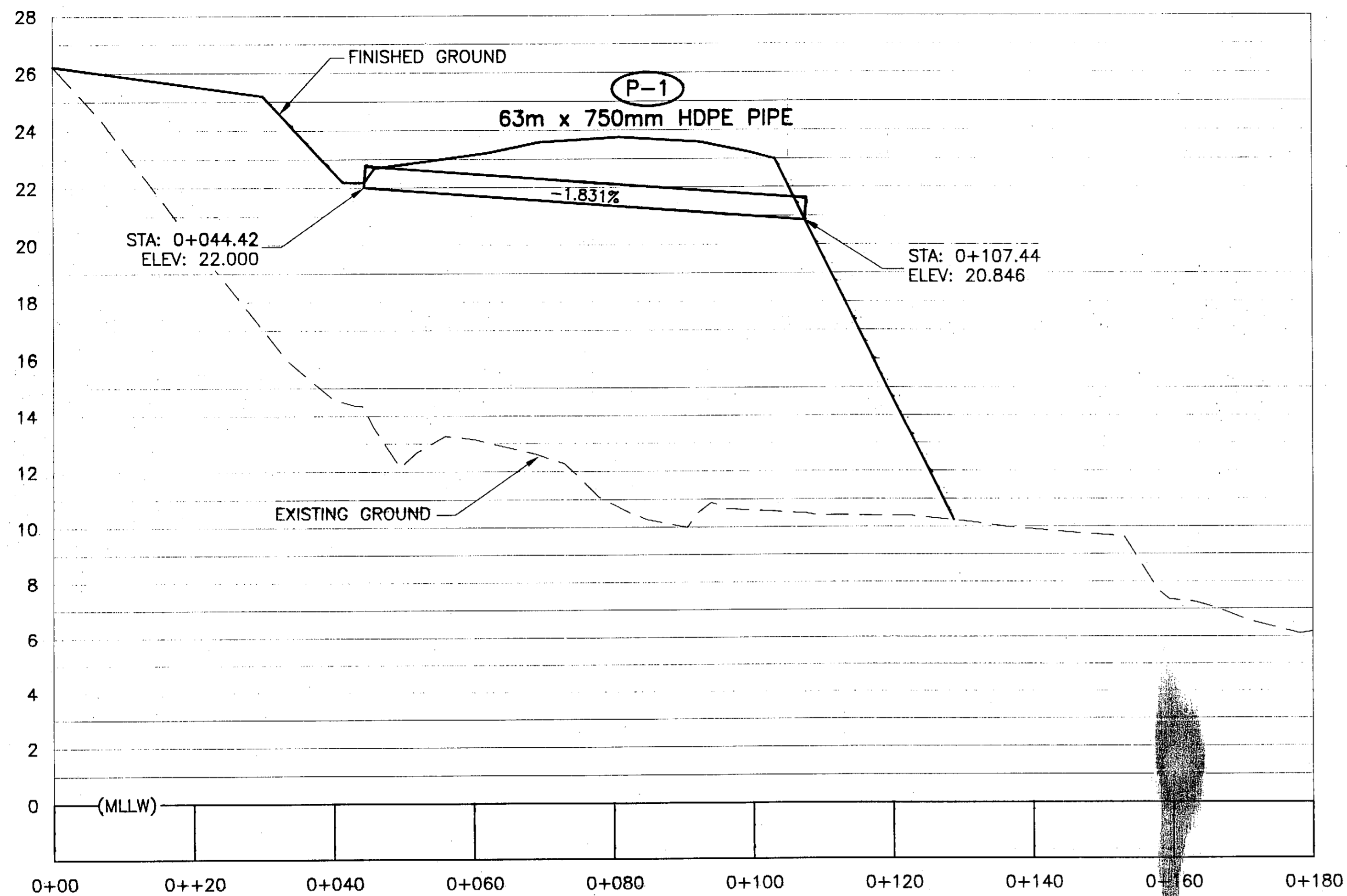
DRAWN: ?

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION
KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

**Power - Enlarged
Terminal Area**

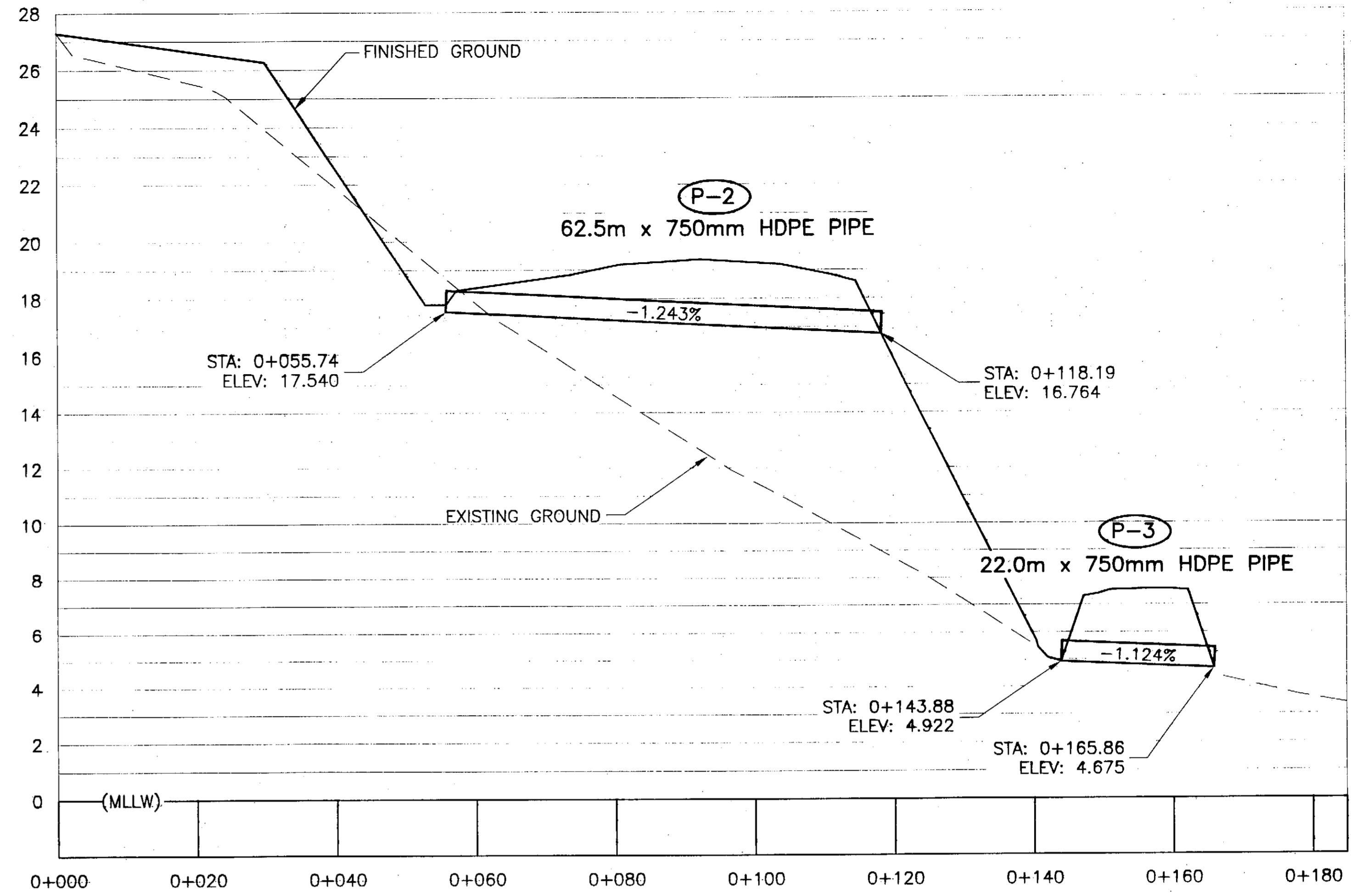
PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G15	48



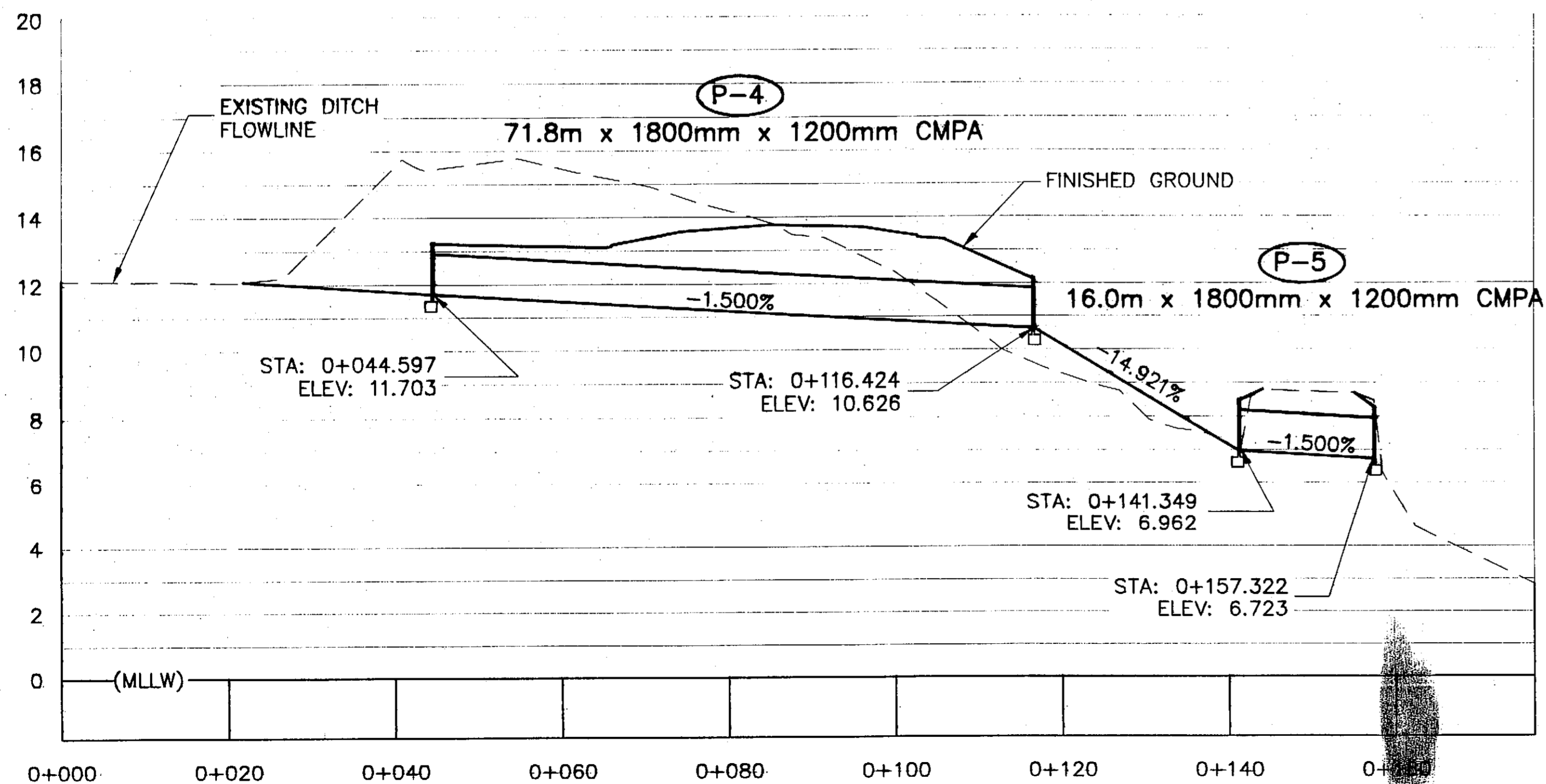
P-1

STATIONS REFERENCE THIS PROFILE ONLY



P-2 & P-3

STATIONS REFERENCE THIS PROFILE ONLY



P-4 & P-5

STATIONS REFERENCE THIS PROFILE ONLY

Legend

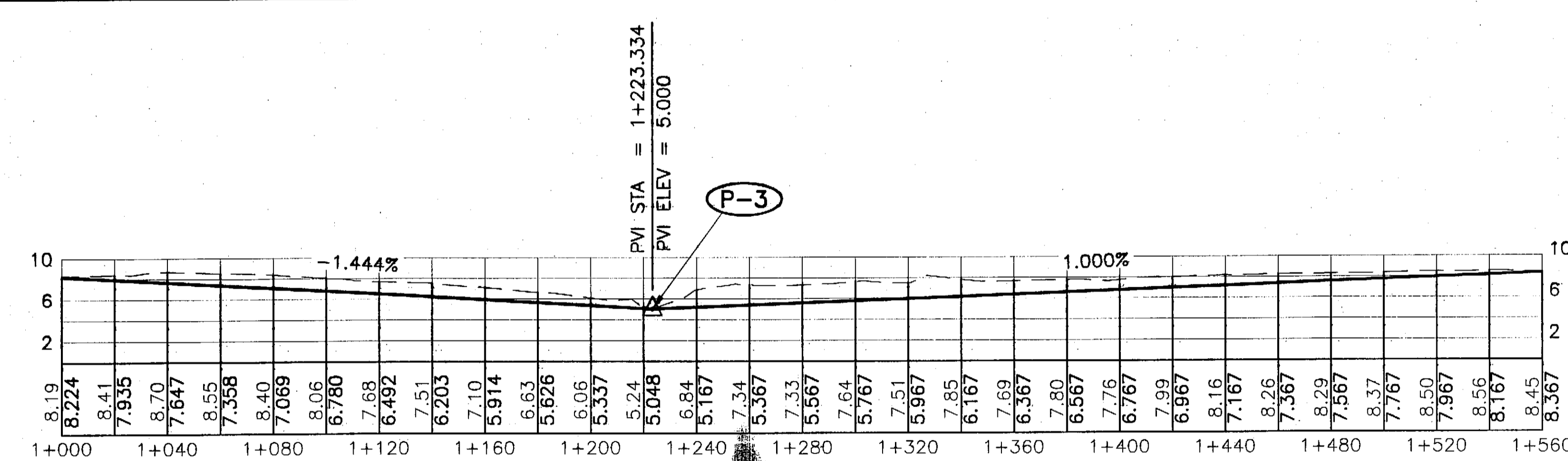
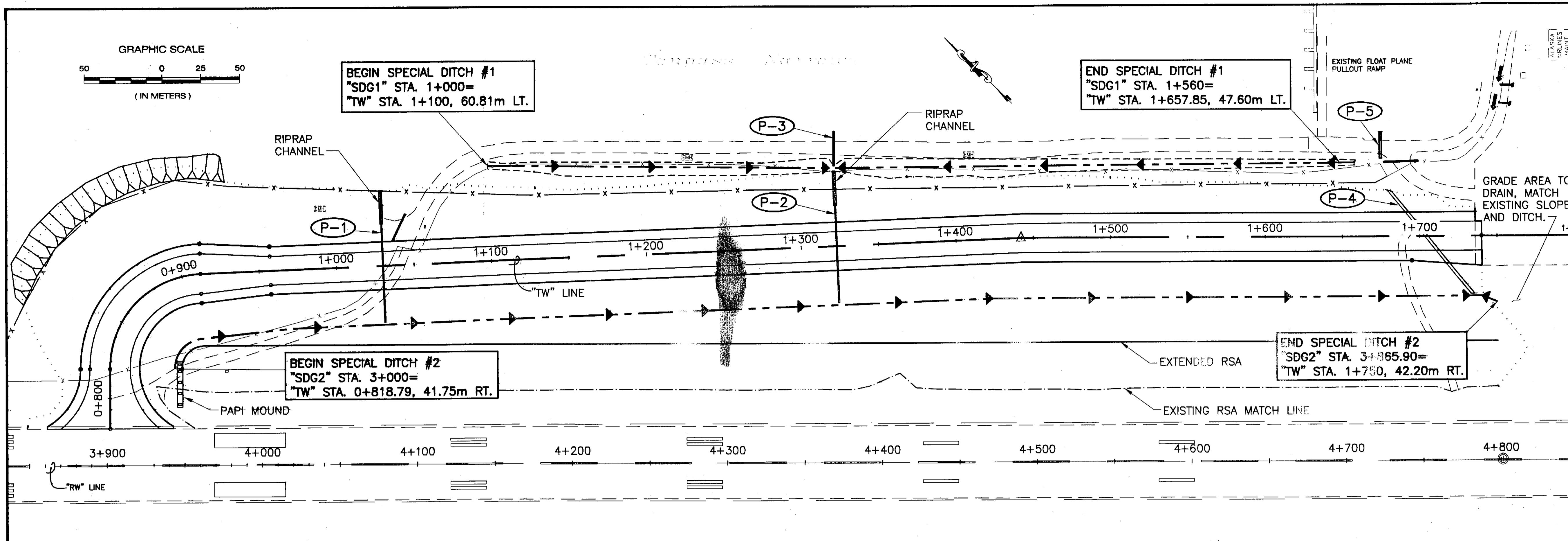
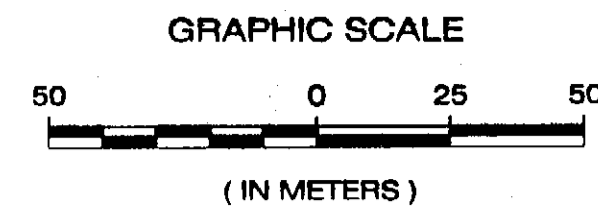
HEADWALL LOCATIONS
 (P-4 & P-5)

NOTES:

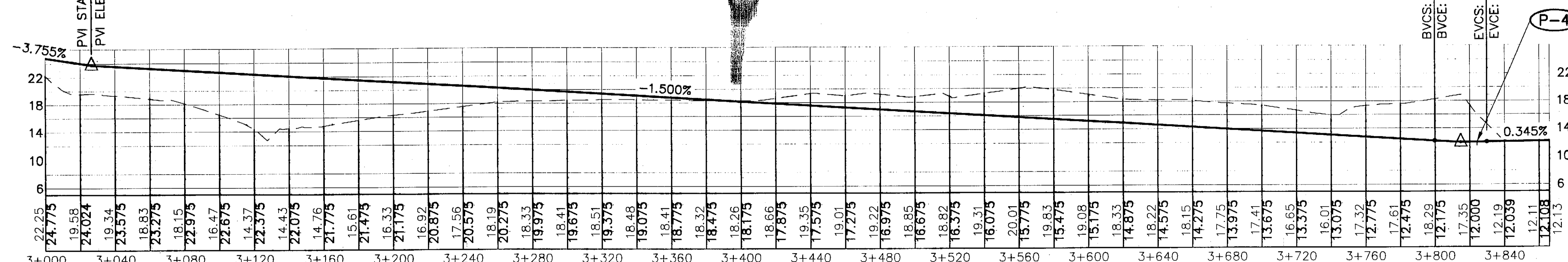
1. SHAPE SLOPES OF TAXIWAY TO MEET THE TOP OF THE HEADWALLS.
2. RE-ESTABLISH EXISTING DITCH BETWEEN P-4 AND P-5 TO THE GRADE SHOWN.
3. SEE CULVERT SUMMARY FOR LOCATION OF INDIVIDUAL PIPES.
4. SEE DRAINAGE DETAILS FOR DITCH SUMP AT PIPE INLET FO PIPES P-1 AND P-2.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

DESIGNED BY: RUSSELL KRAEMER 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION KETCHIKAN AIRPORT WEST TAXIWAY CONSTRUCTION PROJECT NO. 68035				
CHECKED BY: VICTOR M. WINTERS DRAWN BY: M.L./R.S. PROJECT PATH: Q:\Ktr\68035\Planset\H_DrainPro1.dwg		Drainage Profiles		YEAR 2002	SHEET NO. H1	TOTAL SHEETS 48
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION AIP NO. 3-02-0144-1402				



LOW POINT ELEV = 11.995
 LOW POINT STA = 3+824.205
 PVI STA = 3+814.810
 PVI ELEV = 11.953
 VC = 30m



"SDG1" Profile

"SDG2" Profile

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

PATH: Q:\Ktr\68035\Planset\H_DrainPro2.dwg
 Tue, 18/Jun/02 10:09AM Michael Limbaugh
 PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)

RECORD OF REVISIONS	
No.	DESCRIPTION

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

**Special Ditches
 Plan & Profiles**

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

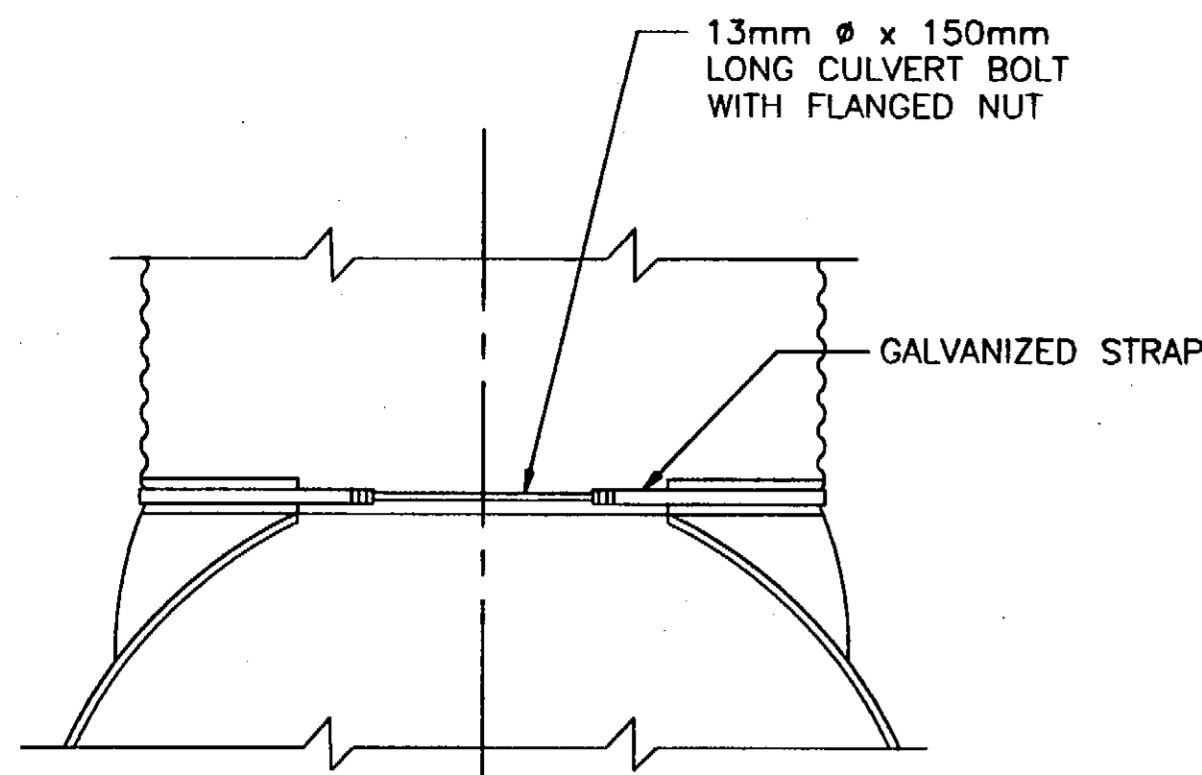
DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
 KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

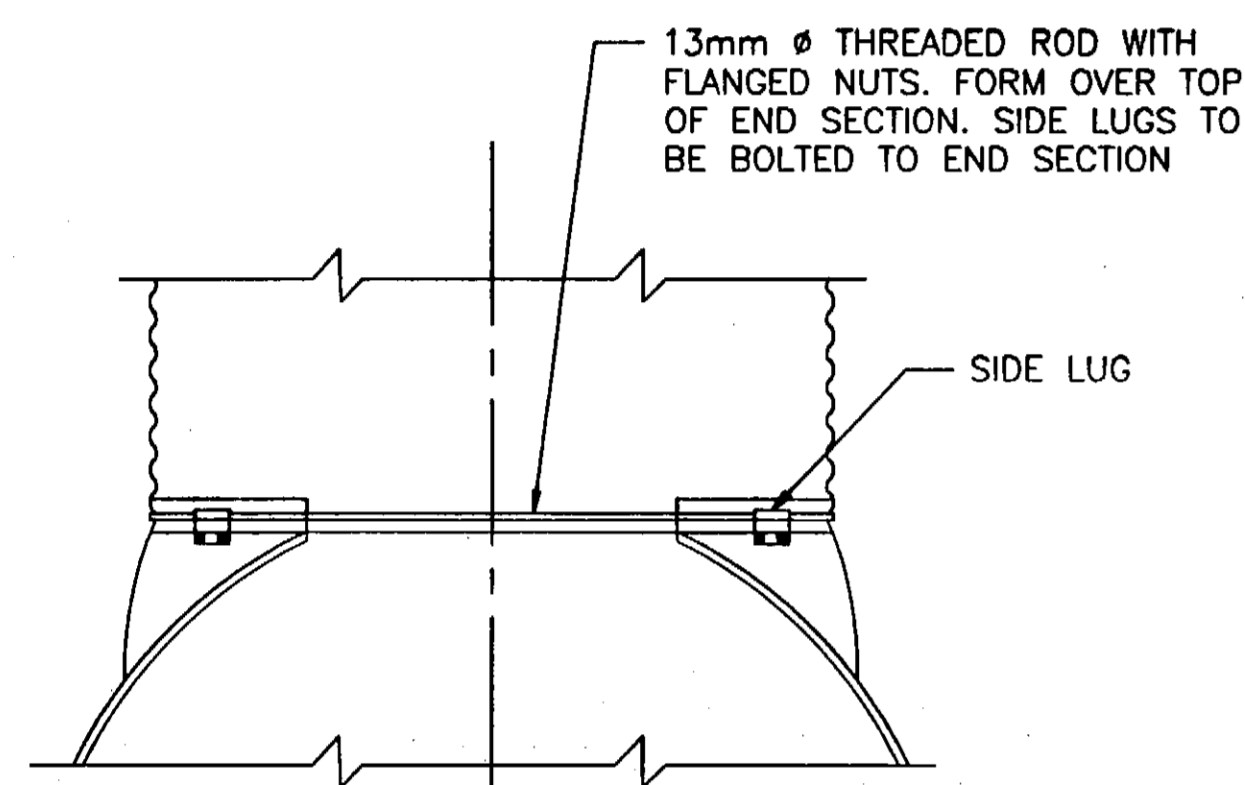
**Special Ditches
 Plan & Profiles**

PROJECT DESIGNATION NUMBER
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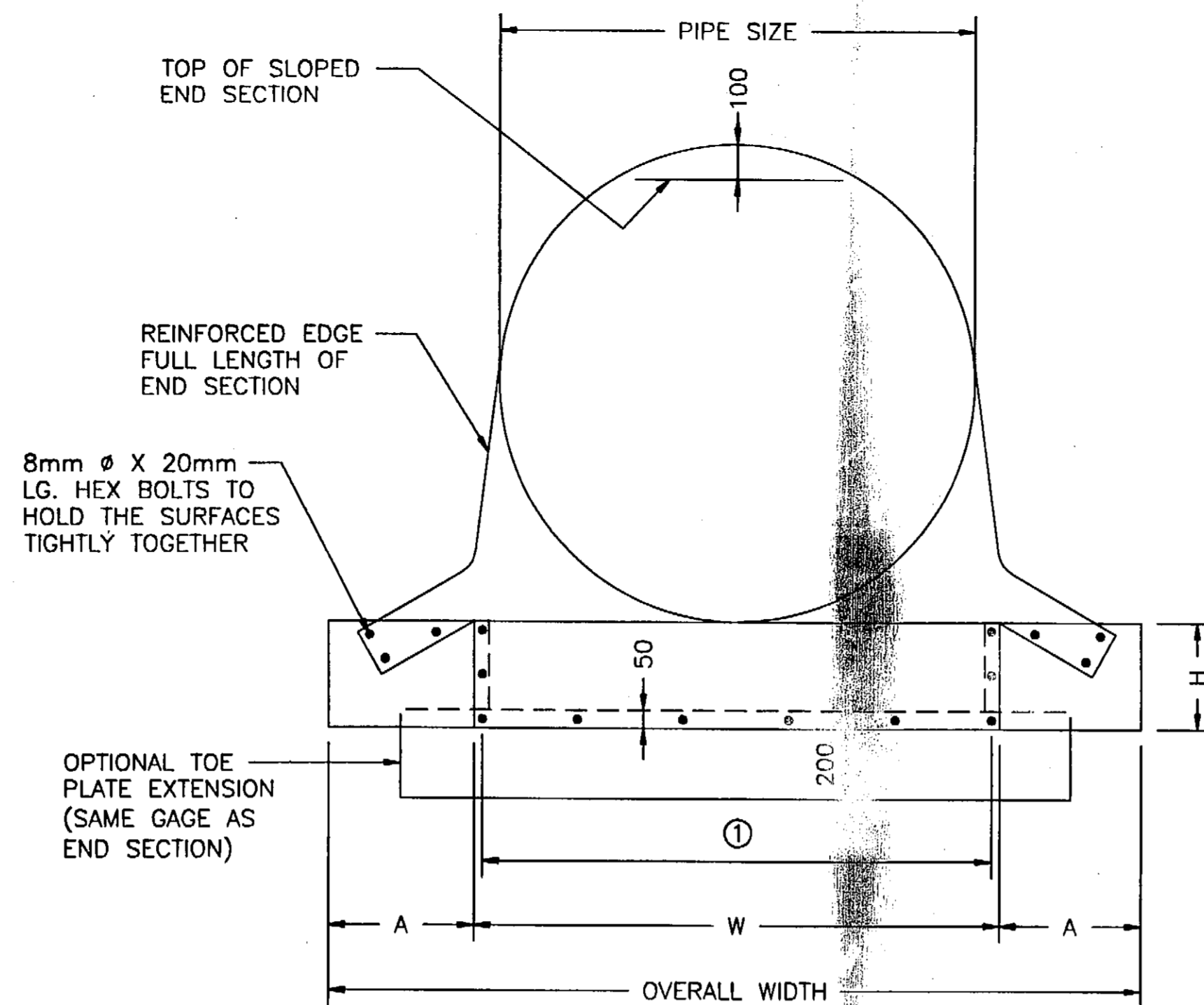
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
H2	48



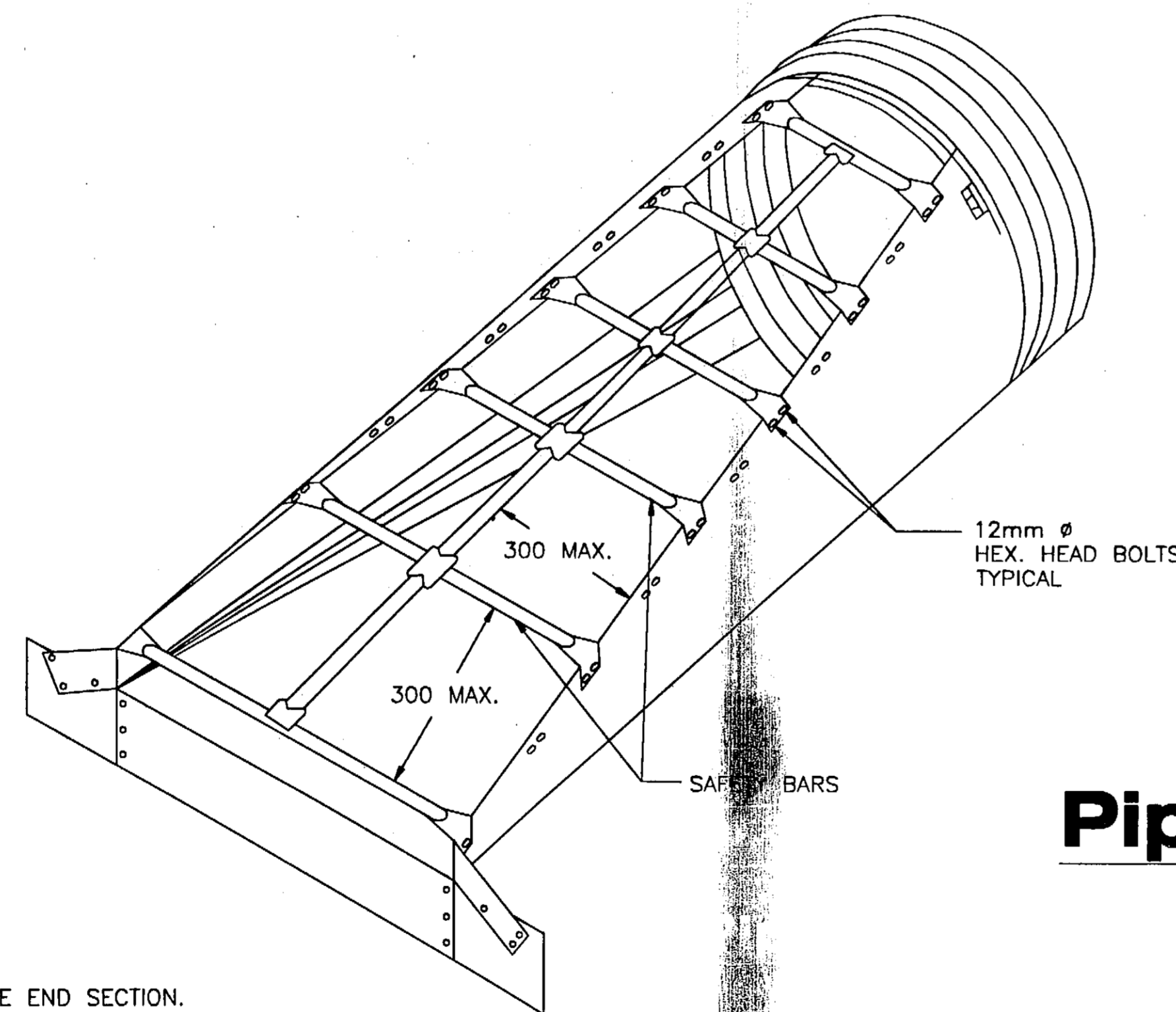
Type 1 Connector Detail
(FOR 375mm TO 600mm DIA.)



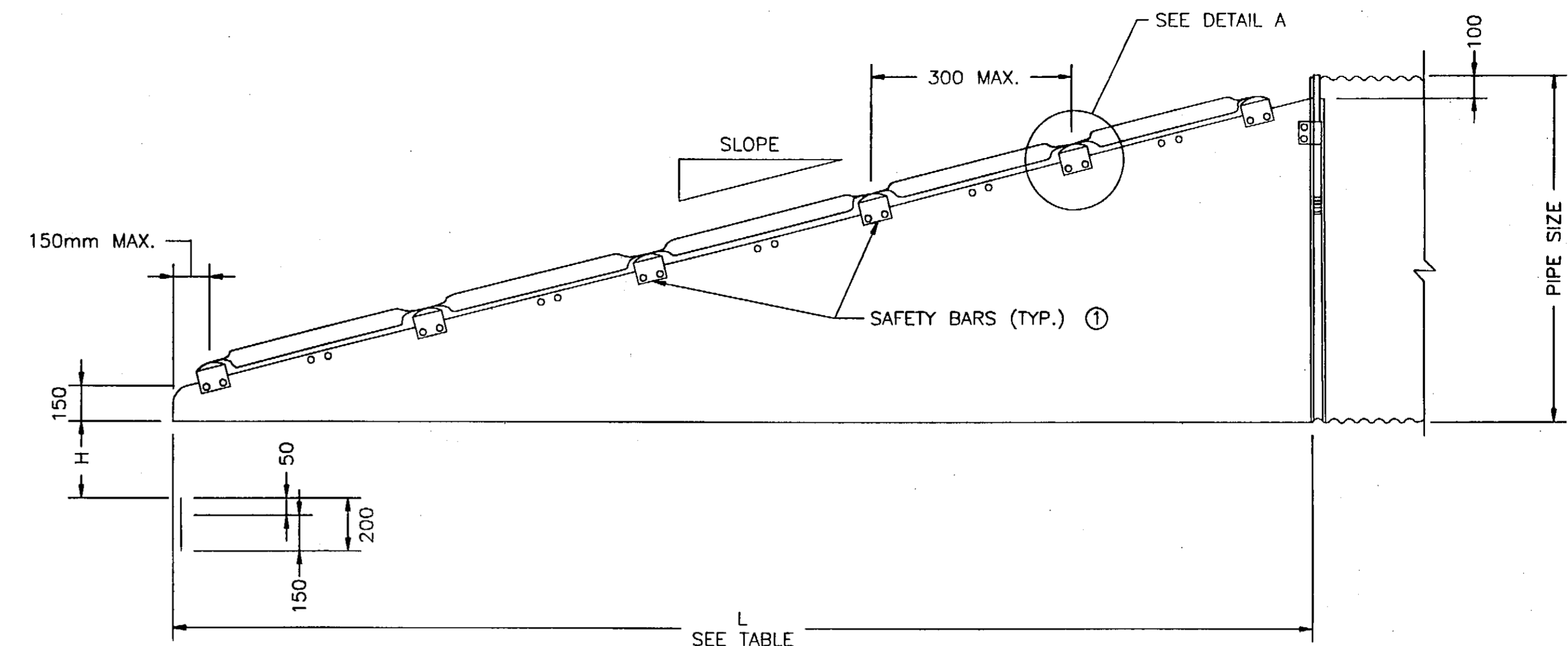
Type 2 Connector Detail
(FOR 750mm DIA. AND LARGER)



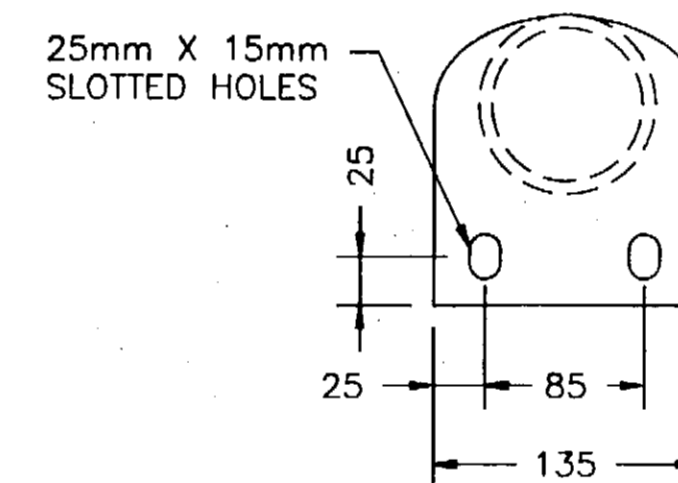
End View Pipe



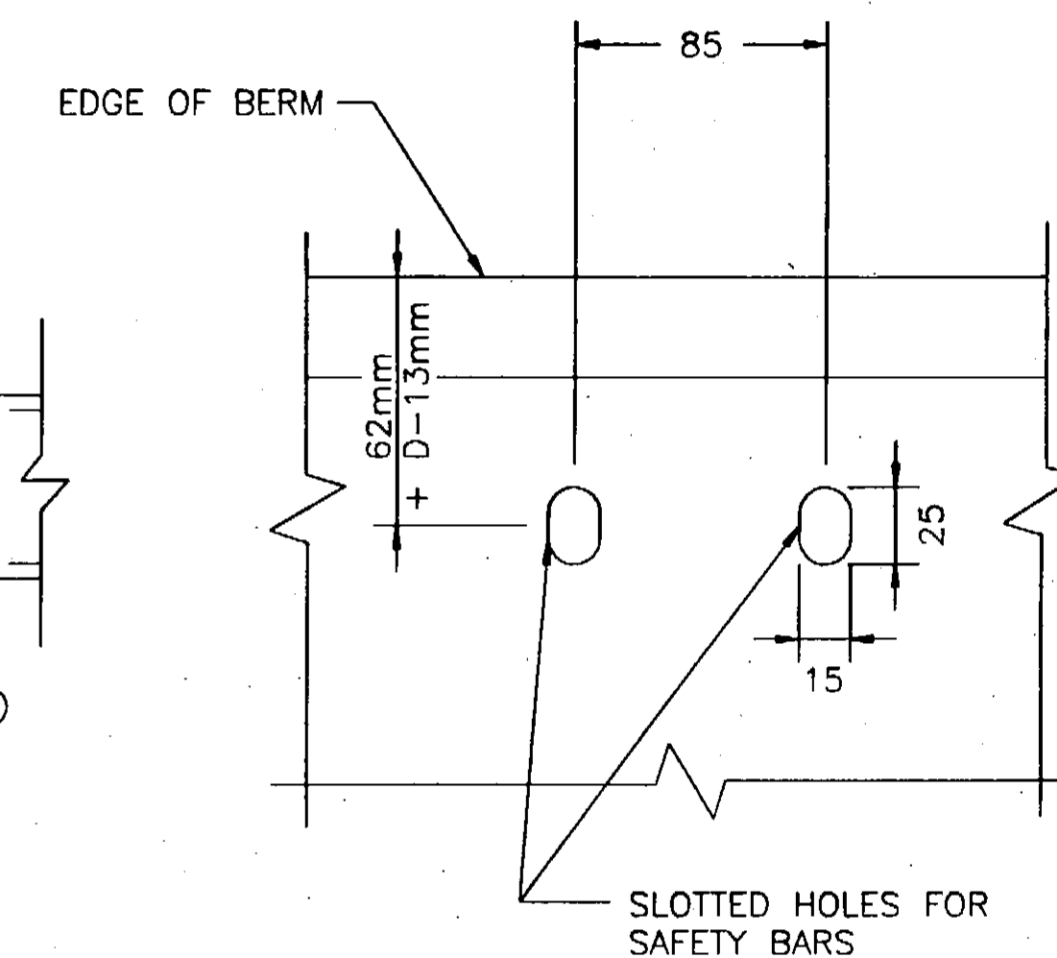
Isometric View



Side View



Bar Detail



Detail A

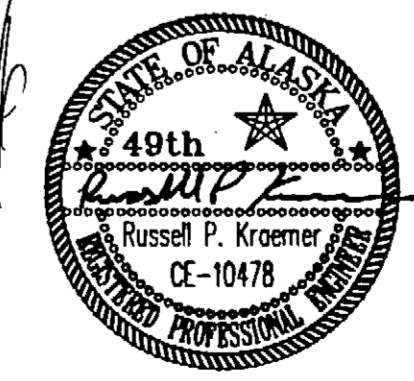
Pipe End Section with Grate

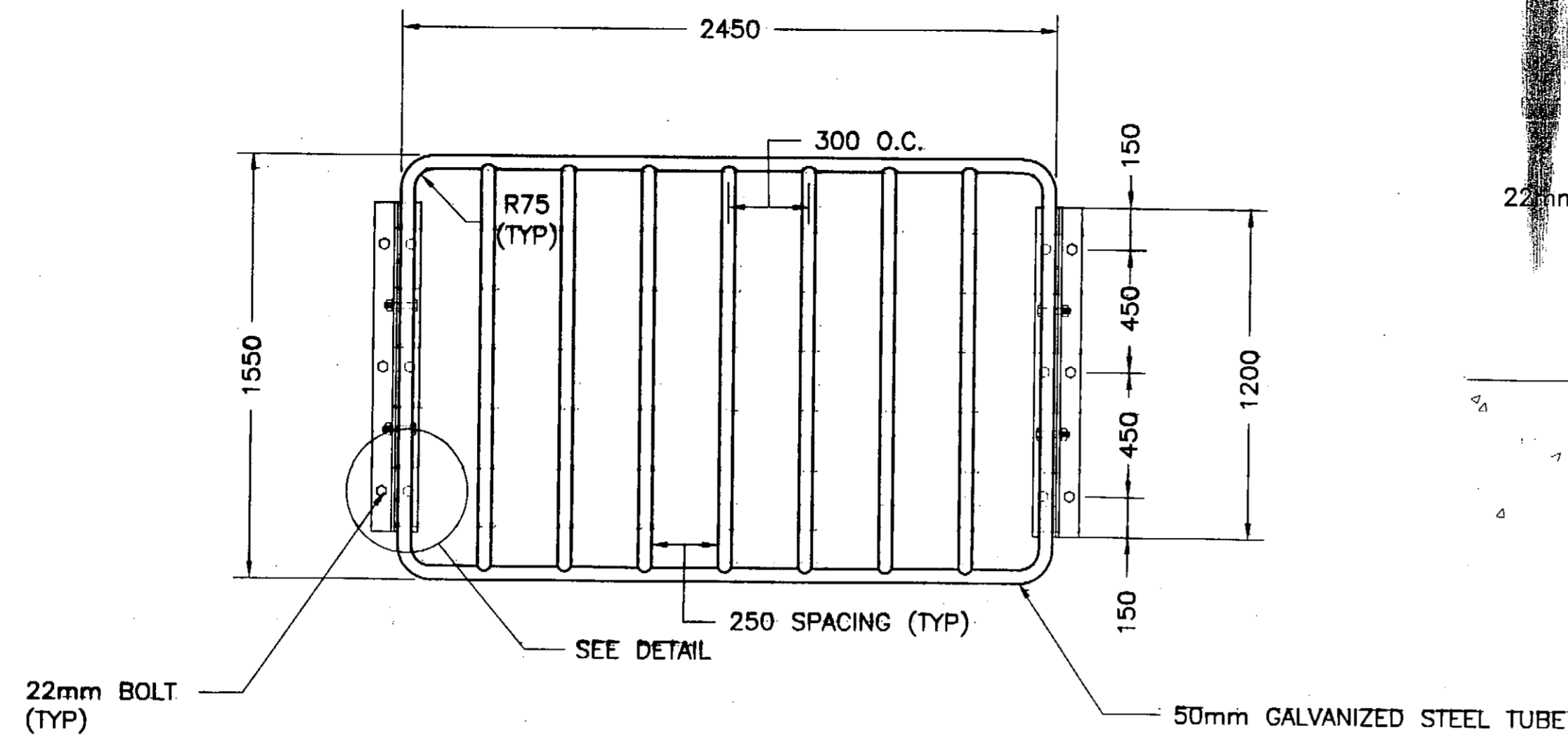
NOTES:

- ① EQUALLY SPACE HOLES AT 300mm ON CENTER (MAXIMUM).
- ② NUMBER OF BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.
- ③ 75mm GALVANIZED PIPE; FLATTEN END. THEN BEND OUTSIDE 100mm TO MATCH PIPE END SECTION SIDES.
- ④ REPAIR GALVANIZED SURFACES AS REQUIRED.
- ⑤ ALL HARDWARE SHALL BE GALVANIZED STEEL.
- ⑥ CONNECTORS ROUND SIZED 375mm THRU 600mm ATTACH TO PIPE WITH TYPE 1 STRAPS. ALL OTHER SIZES ATTACH WITH TYPE 2 RODS AND LUGS.
- ⑦ OPTIONAL TOE EXTENSIONS WHEN REQUIRED ARE TO BE THE SAME GAGE AS END SECTION. DIMENSIONS SHALL BE OVERALL WIDTH LESS 150mm BY 200mm HIGH.
- ⑧ SAFETY BARS SHALL BE FABRICATED FROM STRUCTURAL STEEL PIPE AND GALVANIZED AFTER FABRICATION.
- ⑨ ALL DIMENSIONS ARE GIVEN IN MILLIMETERS UNLESS NOTED.

PIPE DIA. (mm)	THICKNESS (mm)	DIMENSIONS (mm)				L DIMENSIONS				
		GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH (mm)	SLOPE	LENGTH (mm)
600	1.6	16	200	150	750	1150	1:4	1400	1:6	2100
750	2.8	12	300	225	900	1500	1:4	2000	1:6	3000
1200	2.8	12	400	300	1350	2150	1:4	3800	1:6	5700

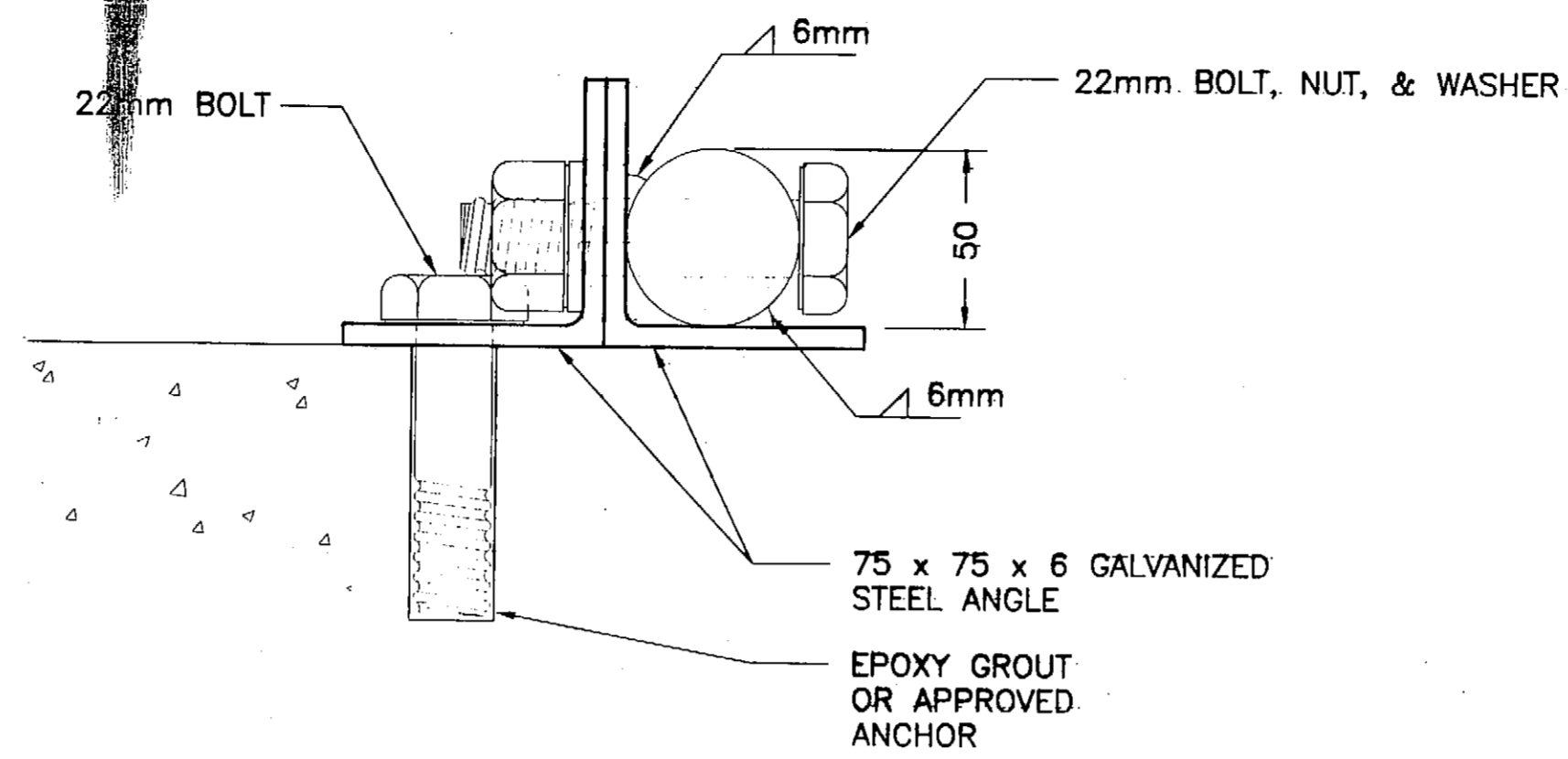
NOTE: DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS.

DESIGNED BY: RUSSELL KRAEMER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION KETCHIKAN AIRPORT WEST TAXIWAY CONSTRUCTION PROJECT NO. 68035 Miscellaneous Drainage Details				
 CHECKED BY: VICTOR M. WINTERS DRAWN BY: M.L./R.S.		PROJECT PATH: Q:\Ktn\68035\PlanSet\H_Drain-Dets.dwg		YEAR	SHEET NO.	TOTAL SHEETS
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION AIP NO.	2002	H3	48	
		3-02-0144-1402				

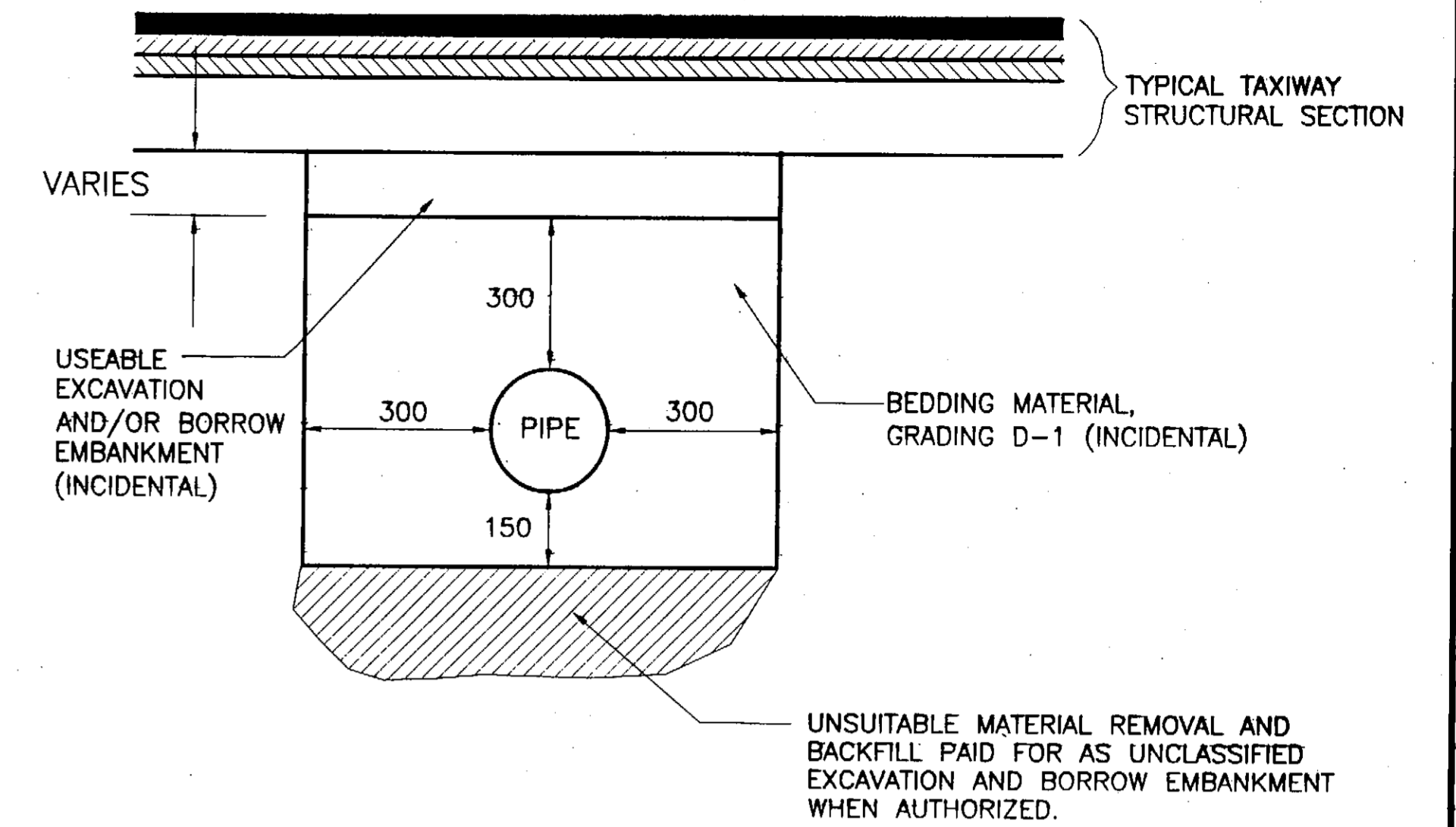


Security Gate Detail

INLET & OUTLET OF P-4



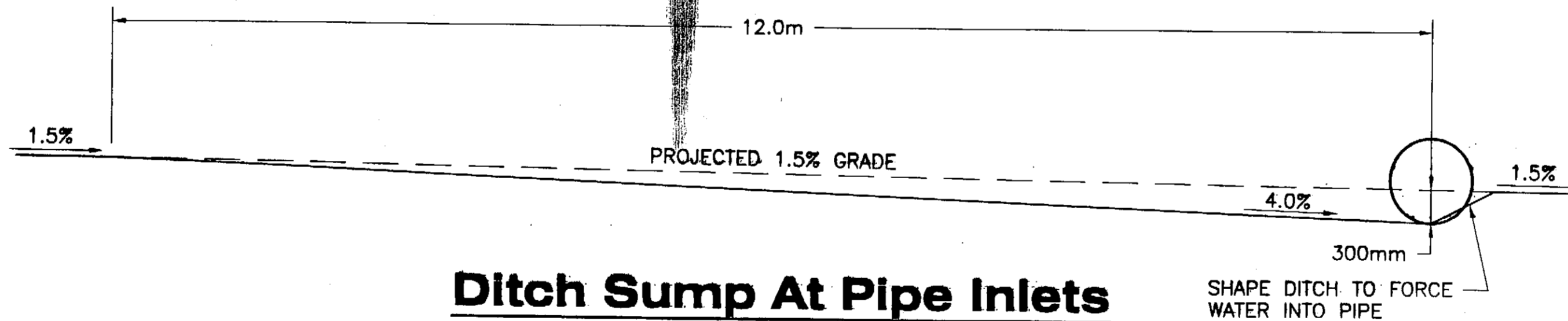
Detail



Typical Pipe Trenching And Bedding Detail

NOTE:

- ① ALL DIMENSIONS ARE GIVEN IN MILLIMETERS UNLESS NOTED.
- ② DRILL HEADWALLS AND ATTACH SECURITY GRATE USING 22mm GALVANIZED BOLTS WITH EXPANDING ANCHOR INSERTS APPROVED BY THE ENGINEER.



Ditch Sump At Pipe Inlets

P-1 & P-2

NOTE: DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS.

DESIGNED BY: RUSSELL KRAEMER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION KETCHIKAN AIRPORT WEST TAXIWAY CONSTRUCTION PROJECT NO. 68035 Miscellaneous Drainage Details			
CHECKED BY: VICTOR M. WINTERS DRAWN BY: M.L./R.S.					
PROJECT PATH: Q:\ktn\68035\Planset\H_Drain-Dets.dwg					
REVISIONS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
		AIP NO. 3-02-0144-1402		2002	H4 48

Tongass Narrows

NOTE:
 AIRPORT OPERATIONS AREAS ARE DEFINED AS AREAS WHERE AIRCRAFT ACTIVITY TAKES PLACE, INCLUDING BUT NOT LIMITED TO, RUNWAYS, TAXIWAYS AND APRONS. SECURITY IDENTIFICATION DISPLAY AREAS ARE DEFINED AS AREAS IDENTIFIED IN AIRPORT SECURITY PROGRAM REQUIRING EACH PERSON TO CONTINUOUSLY DISPLAY ON THEIR OUTERMOST CLOTHING, AN AIRPORT APPROVED IDENTIFICATION MEDIUM UNLESS UNDER AIRPORT APPROVED ESCORT.

PATH:
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 Tue, 18/Jun/02 10:09AM Michael Limbough
 PLOT:
 PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

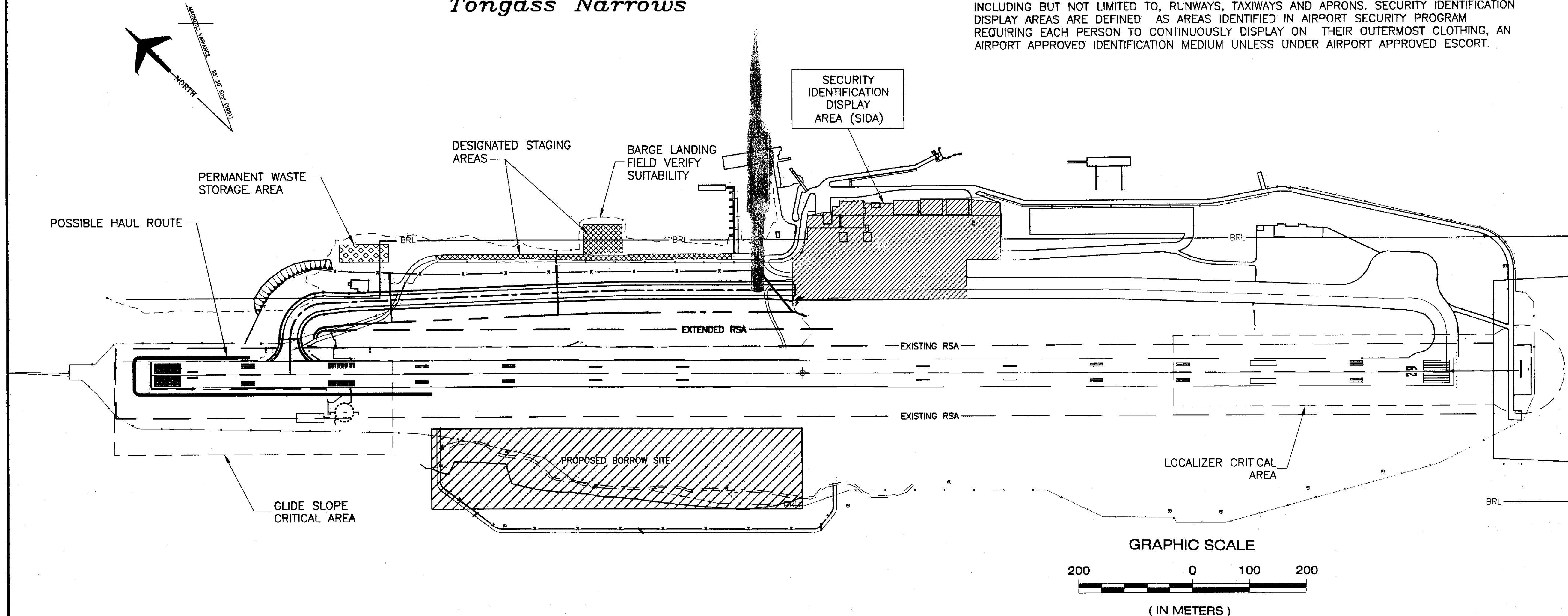
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

Safety Plan



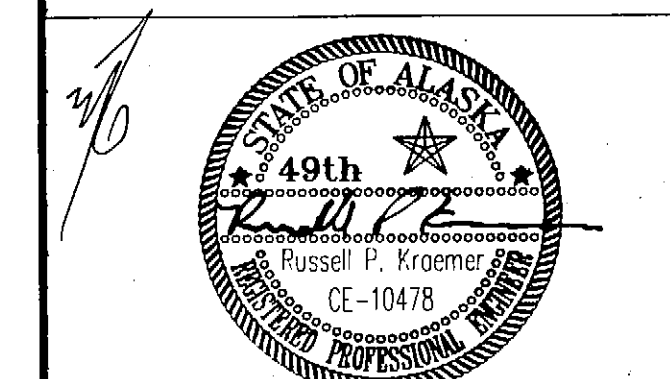
Safety Plan Notes:

1. CONTRACTOR SHALL REMAIN CLEAR OF RUNWAY AT ALL TIMES.
2. NO WORK (PERSONNEL OR EQUIPMENT) SHALL BE ALLOWED WITHIN 75m OF RUNWAY 11/29 CENTERLINE DURING AIR CARRIER OPERATIONS, 15 MINUTES BEFORE ARRIVAL, AND UNTIL 15 MINUTES AFTER DEPARTURE.
3. IF RUNWAY CLOSURES ARE USED, "X" MARKINGS SHALL BE PLACED OVER NUMBERS AND AT ENDS AND MIDPOINT ON THE CLOSED PORTION. CONTRACTOR SHALL SUBMIT REVISED SAFETY PLAN FOR APPROVAL.
4. TEMPORARY "X" MARKINGS MAY BE CLOTH, 13mm PLYWOOD OR PLASTIC SECURELY ANCHORED IN PLACE WITH YELLOW COLORED SANDBAGS OR APPROVED MATERIAL (SEE DETAIL SHEET I2).
5. BARRICADES SHALL BE OF THE LOW STYLE (LESS THAN 305mm) HIGH WHEN USED ADJACENT TO AN ACTIVE MOVEMENT AREA. THESE BARRICADES NEED TO BE MARKED AS SHOWN ON SHEET I2.
6. NO EQUIPMENT MAY BE PARKED IN FRONT OF VASI'S, GLIDE SLOPE, VORTAC OR LOCALIZER ANTENNAS AS TO BLOCK VISUAL OR SIGNAL LANDING INFORMATION. ALL PERSONNEL AND EQUIPMENT MUST EXIT THE GLIDE SLOPE AND LOCALIZER CRITICAL AREAS PRIOR TO AIRCRAFT RUNWAY OPERATION.
7. WORK OUTSIDE 75m BOTH SIDES OF RUNWAY 11/29 CENTERLINE MAY BE PERFORMED AT ANY TIME DURING THE CONTRACT. PERFORM ALL WORK PER THE REQUIREMENTS OF SECTION 80 OF THE SPECIFICATIONS.
8. STORAGE OF MATERIALS AND PARKING OF EQUIPMENT WITHIN 75 m OF BOTH SIDES OF BOTH RUNWAYS AND WITHIN AIRCRAFT APRONS WILL NOT BE ALLOWED. ALL STORAGE OF ANY TYPE SHALL BE IN THE DESIGNATED STAGING AREAS.
9. CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE PLAN TO THE ENGINEER FOR APPROVAL. ANY CHANGES TO THE CONSTRUCTION SEQUENCE PLAN MUST BE APPROVED IN WRITING BY THE AIRPORT MANAGER AND THE ENGINEER PRIOR TO COMMENCING WORK. THIS WORK WILL INCLUDE A REVIEW OF AND POSSIBLE CHANGES TO THE SAFETY PLAN.

General Notes:

1. NO SPECIFIC SEQUENCING PLAN SHOWN. CONTRACTOR MUST SUBMIT CONSTRUCTION SEQUENCE PLAN AT THE PRECONSTRUCTION CONFERENCE.
2. DO NOT DEPEND ON UTILITIES, DOT, OR FAA FOR LOCATES. APPROXIMATE LOCATION OF KNOWN UTILITIES AND NAVAID COMMUNICATIONS IS SHOWN ON THE SITE PLAN SHEETS. OBTAIN LOCATES AT CONTRACTOR EXPENSE FOR ALL UNDERGROUND WIRING. USE INDEPENDENT LOCATING SERVICE OR PURCHASE A LOCATOR.
3. FOR SPECIFIC LANGUAGE, INSTRUCTIONS, REGULATIONS AND RESTRICTIONS CONCERNING SAFETY PLAN, AND SAFETY AND SECURITY ISSUES, SEE SECTIONS 70 AND 80 OF THE SPECIFICATIONS.

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

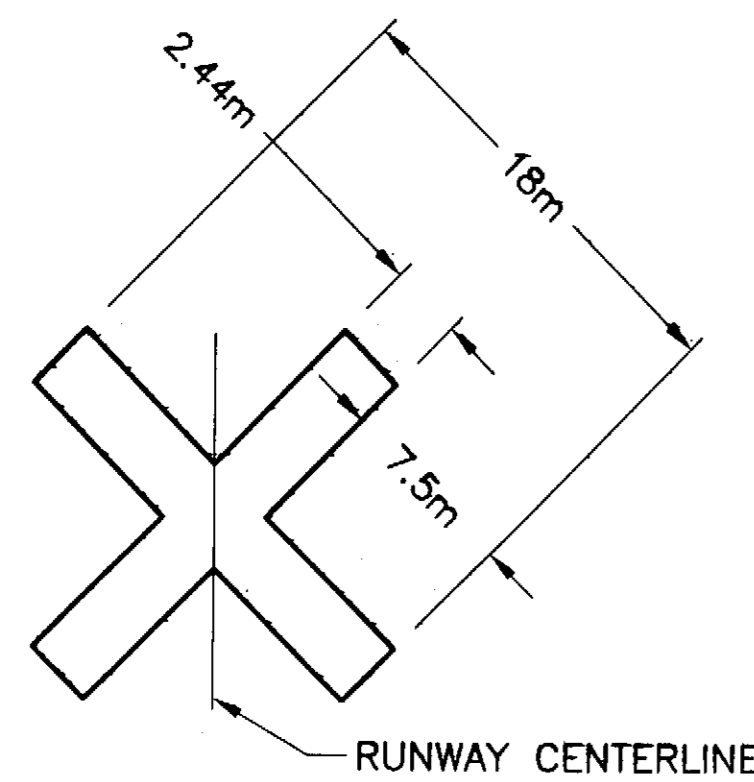
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
 KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035

Safety Plan

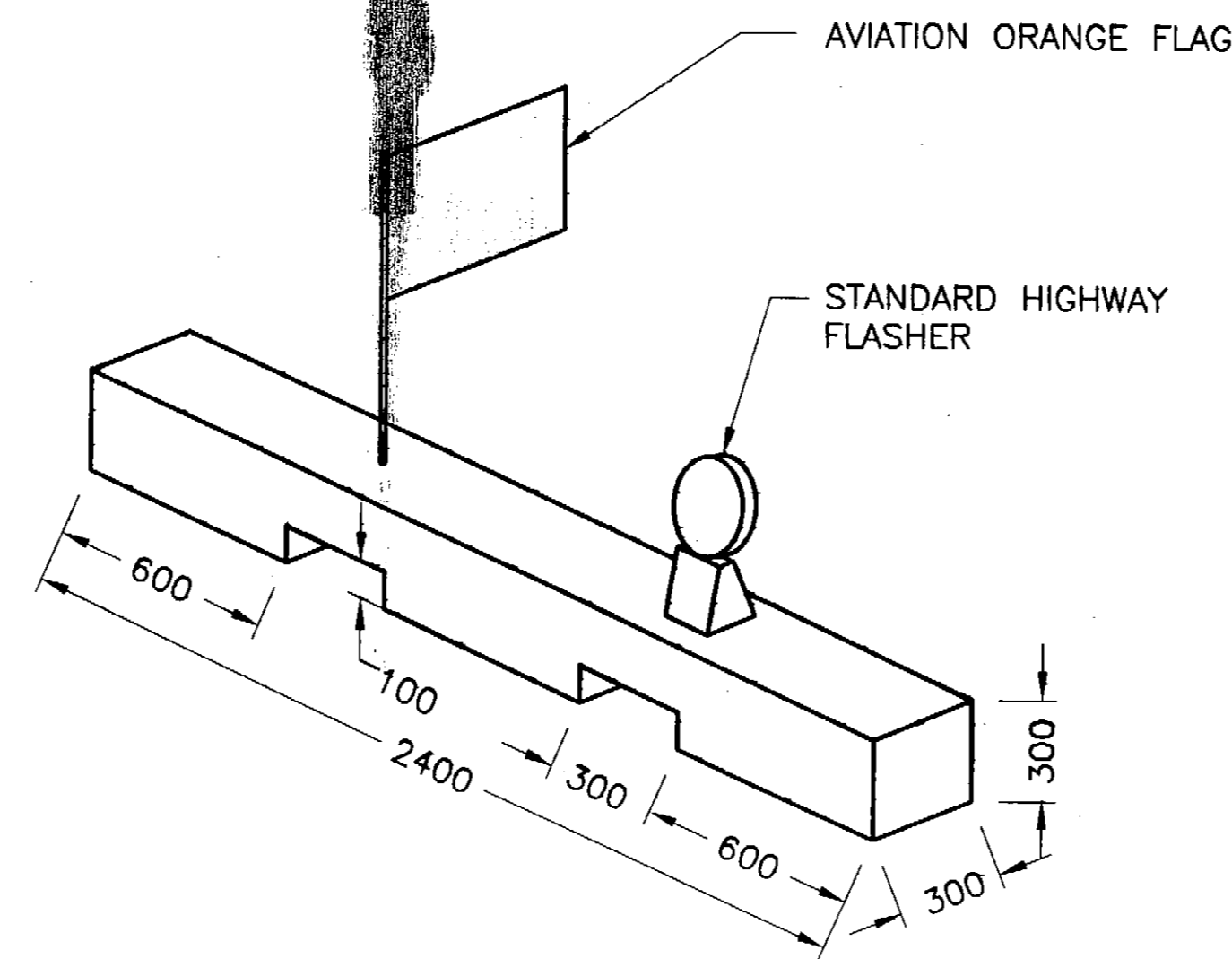
PROJECT DESIGNATION NUMBER
 AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
J1	48

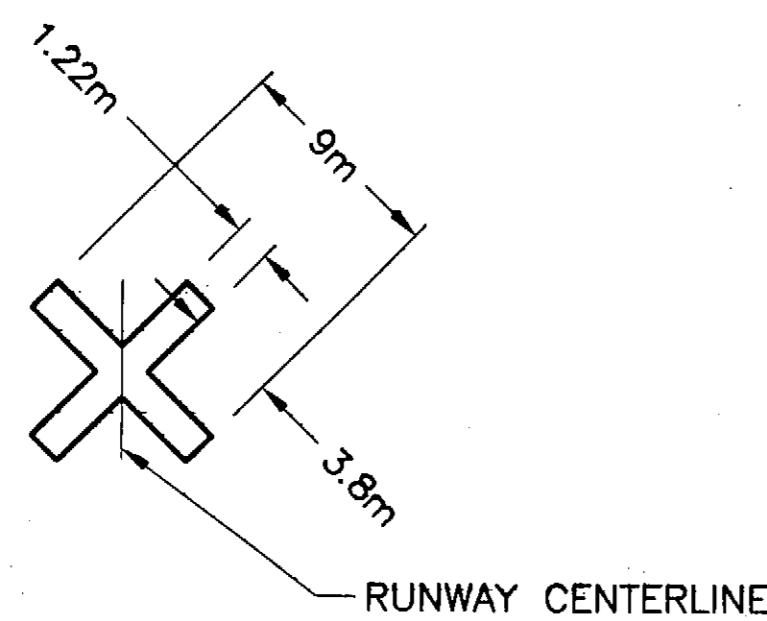
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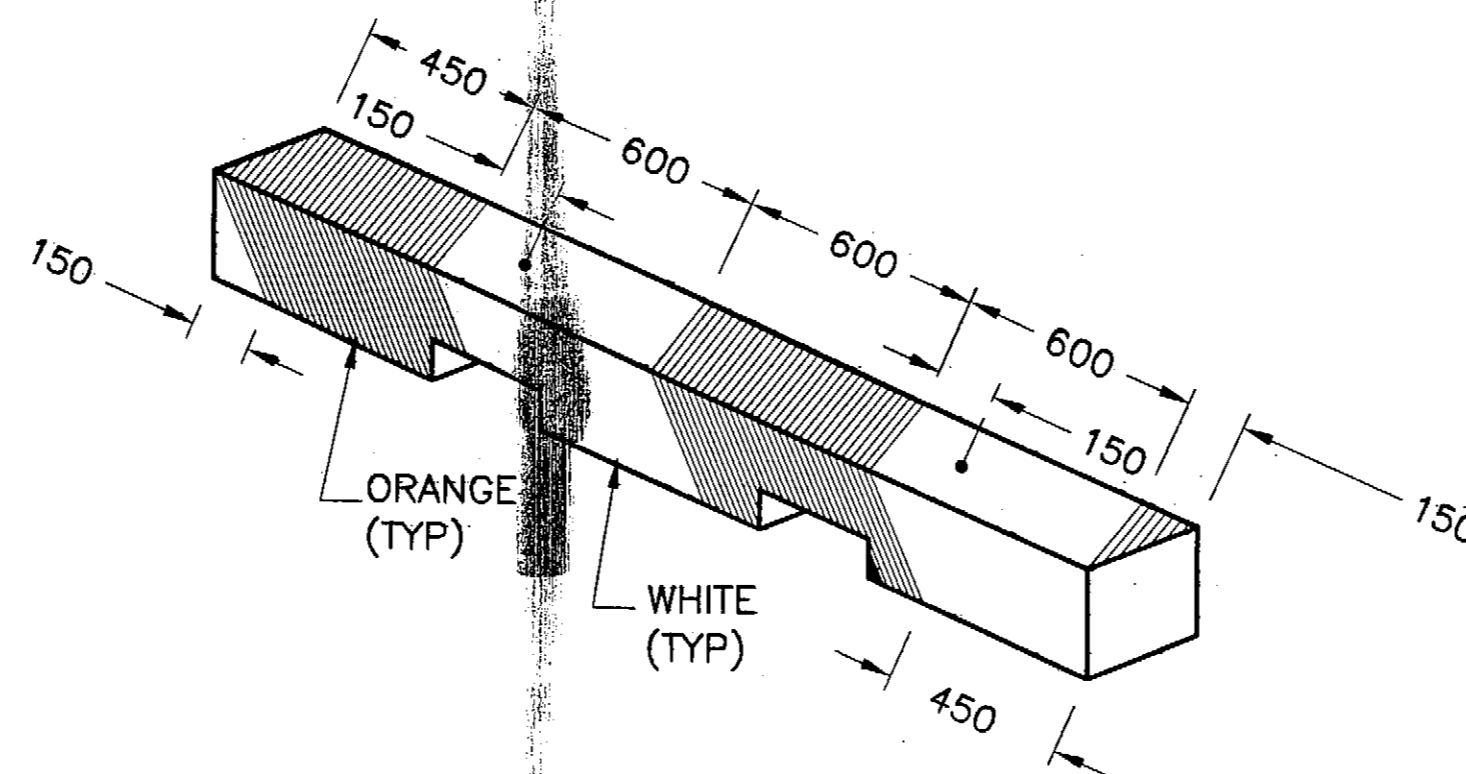
(A) Closed Runway



Timber Preparation, Flag And Flasher Mount Detail



(C) Closed Taxiway



Paint Detail

Typical Low Style Construction Barricade

N.T.S.

Temporary Closure Markings

N.T.S.

Temporary Closure Notes:

1. CROSSES SHALL BE YELLOW AND MAY BE CONSTRUCTED OF PLASTIC OR OTHER SUITABLE MATERIAL AND WEIGHTED DOWN SO AS NOT TO BE MOVED BY WIND OR JET BLAST.
2. CROSSES SHALL BE PLACED AT EACH END OF THE CLOSED PORTION OF THE RUNWAY OR TAXIWAY.

Traffic Control Devices Notes:

1. BARRIERS SHALL BE IN PLACE TO LIMIT ACCESS TO CLOSED PORTIONS OF THE APRON WHENEVER THE RUNWAY IS OPEN.
2. DRILL AND NOTCH TIMBER BEFORE PAINTING.
3. REFER TO SECTION 704. HAZARDOUS AREA BARRIER.
4. ALL DIMENSIONS ARE IN MILLIMETERS.

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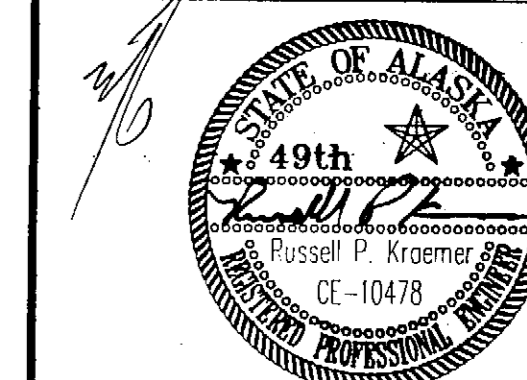
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

Safety Details

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

KETCHIKAN AIRPORT
WEST TAXIWAY
CONSTRUCTION
PROJECT NO. 68035

Safety Details

PROJECT DESIGNATION NUMBER

AIP NO. 3-02-0144-1402

STATE YEAR

ALASKA 2002

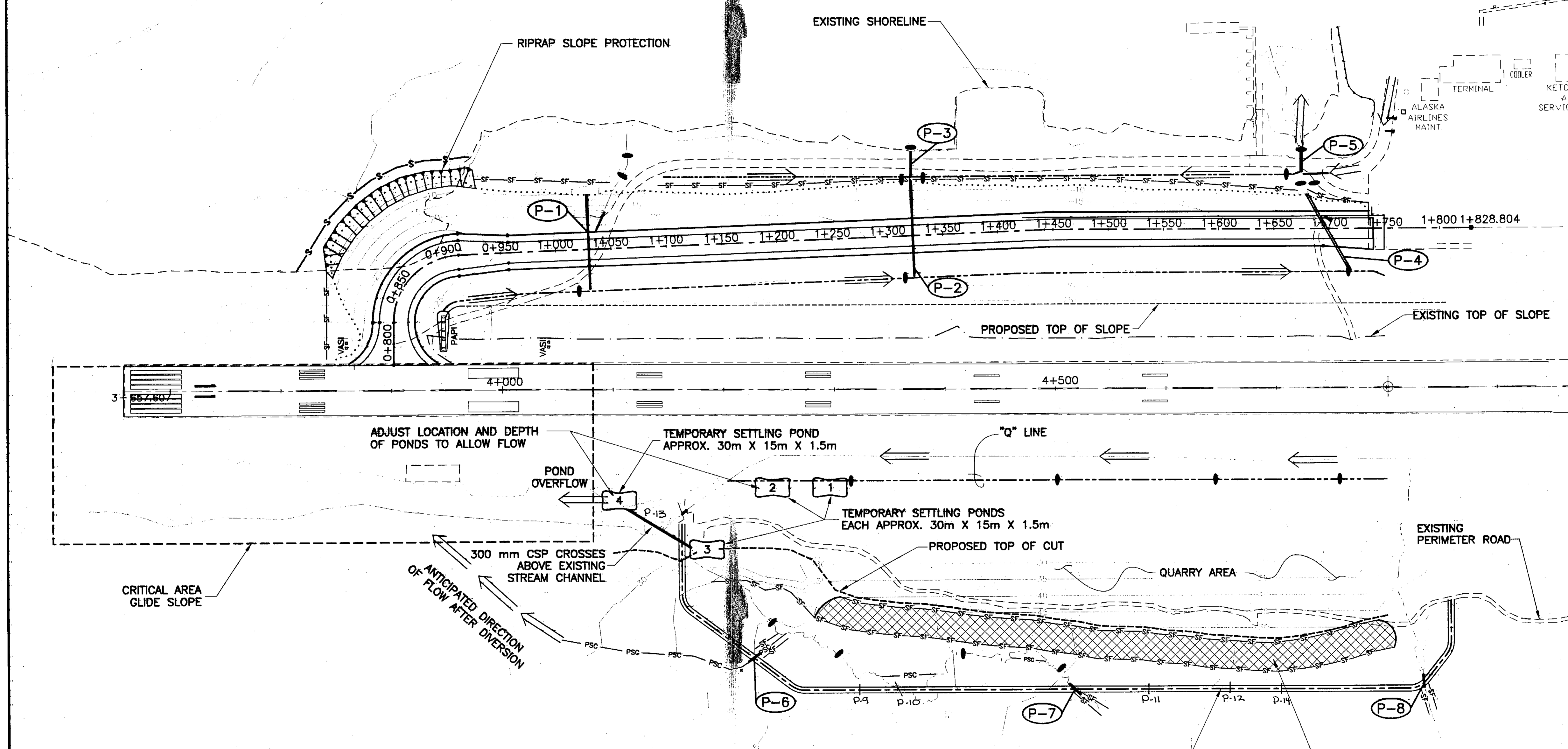
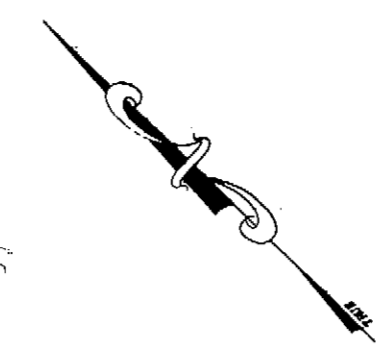
SHEET NUMBER TOTAL SHEETS

J2 48

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No.	DATE	DESCRIPTION

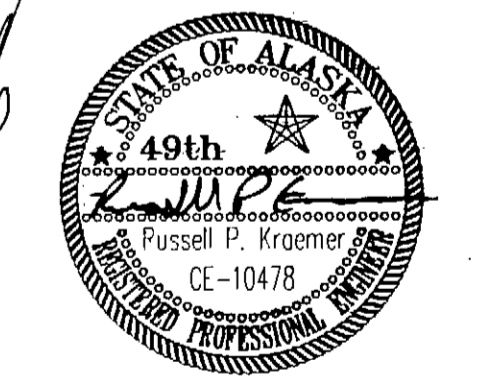
- NOTES:**
- SEE THE ENVIRONMENTAL PERMITS AND COMMITMENTS FOR FURTHER DETAILS OF STREAM CHANNEL DIVERSIONS, AND PROFILES FOR P-6, P-7, AND P-8.
 - SEE ESCP DETAILS FOR SILT BOOM, CHECK DAM, AND SETTLING POND DETAILS.
 - SETTLING PONDS 3 & 4 SHALL BE CONSTRUCTED BEFORE PLACEMENT OF BORROW EMBANKMENT FOR THE TAXIWAY HAS BEGUN. PONDS 1 & 2 SHALL BE CONSTRUCTED AS QUARRY DEVELOPMENT ALLOWS, AND AS SOON AS PRACTICABLE.

Tongass Narrows



**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035**
**Erosion & Sediment
 Control Plan**
 PROPOSED TERRAIN

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035**

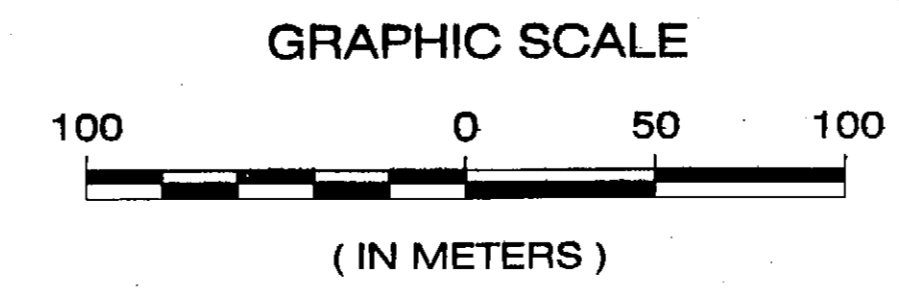
**Erosion & Sediment
 Control Plan**

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
K1	48

Legend

- | | |
|-----------------------------------|-----------------------------------|
| PROPOSED CULVERT LOCATION | EXISTING STREAM CHANNEL |
| CHECK DAM | PROPOSED OR RE-ESTABLISHED DITCH |
| SETTLING POND | SILT FENCE |
| PROPOSED STREAM CHANNEL DIVERSION | APPROXIMATE LOCATION OF SILT BOOM |



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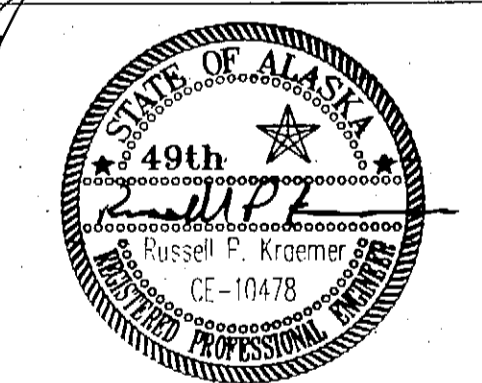
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

**KETCHIKAN AIRPORT
 WEST TAXIWAY
 CONSTRUCTION
 PROJECT NO. 68035**

**Erosion & Sediment
 Control Plan**
 EXISTING TERRAIN

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

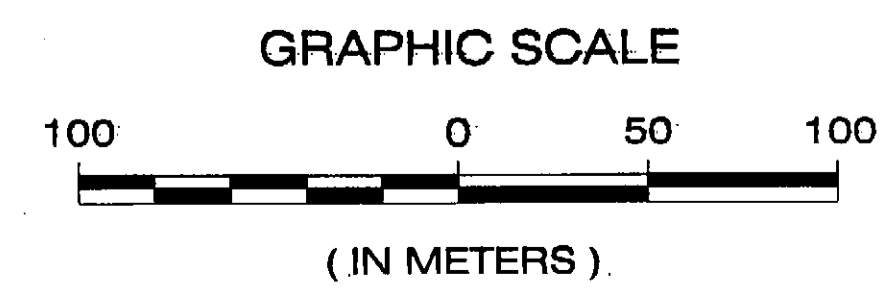
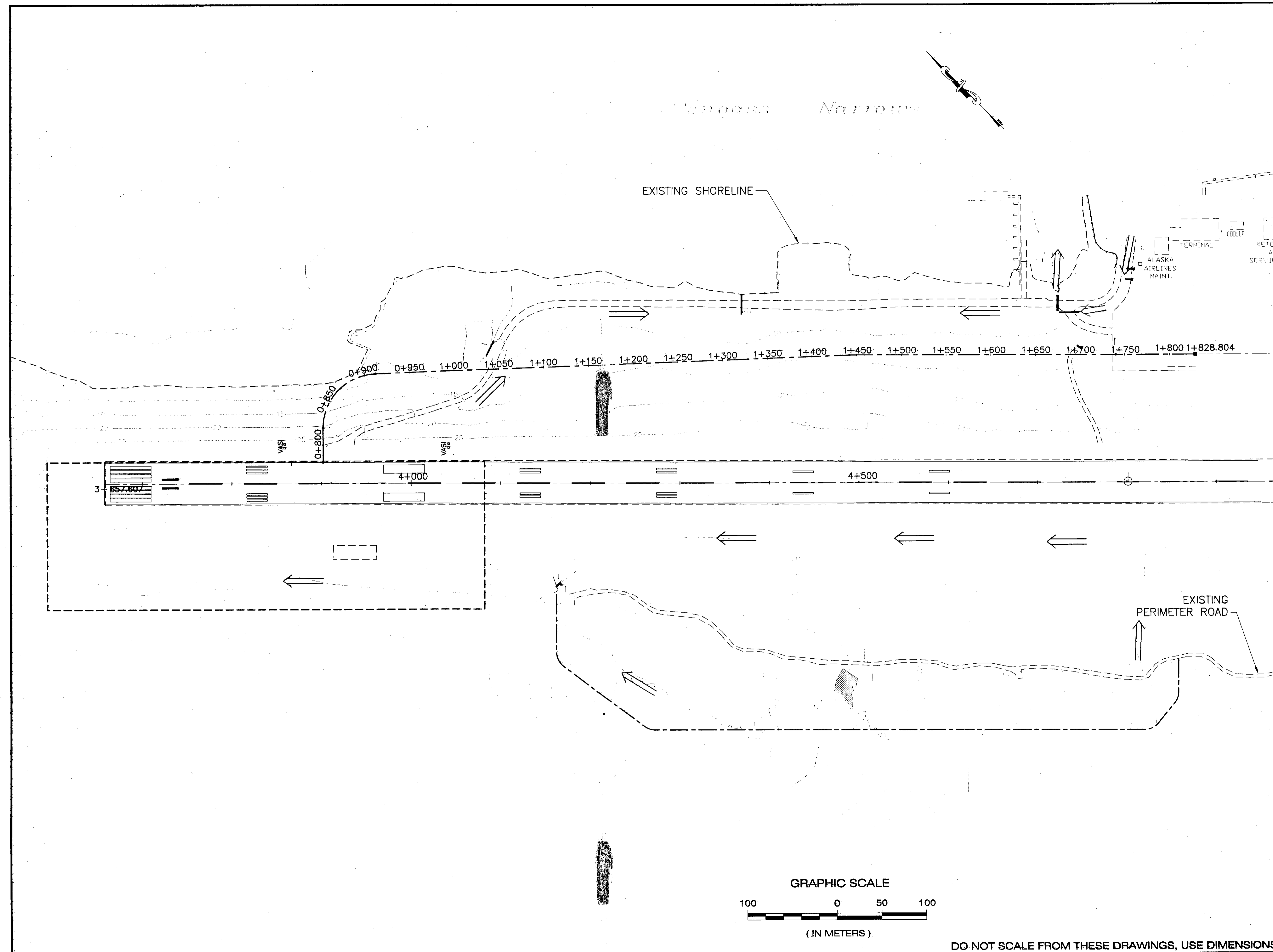
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**KETCHIKAN AIRPORT
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**Erosion & Sediment
 Control Plan**

PROJECT DESIGNATION NUMBER

AIP NO. 3-02-0144-1402

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
K2	48



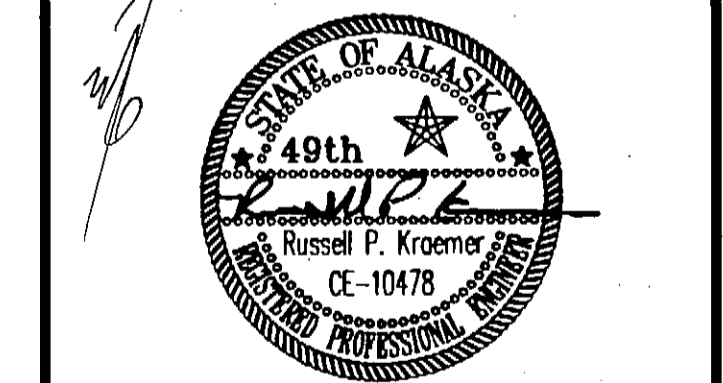
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ADDENDUM NUMBER		
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RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
 WEST TAXIWAY
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**Erosion & Sediment
 Control Details**

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

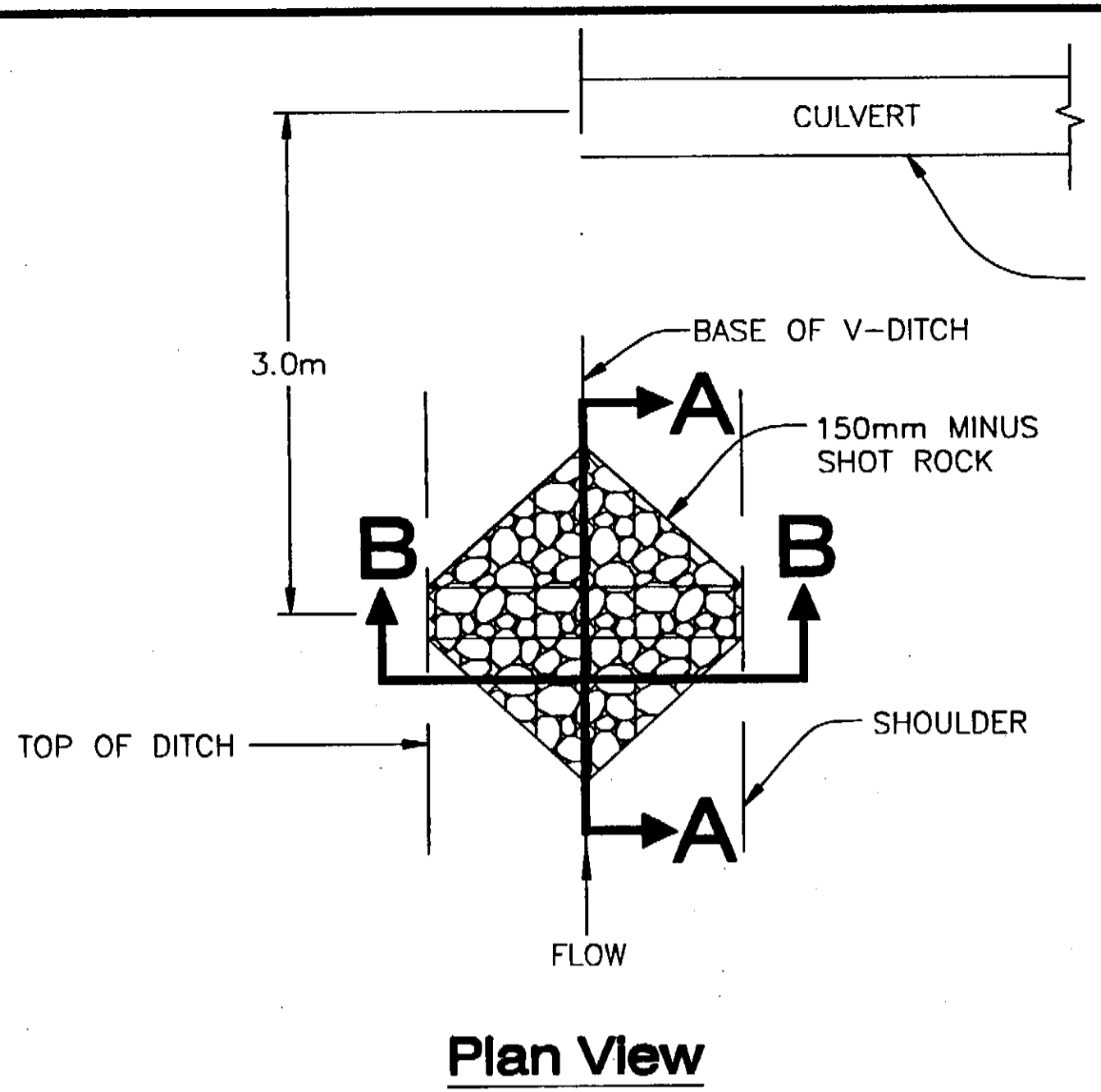
DRAWN BY: M.L./R.S.

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**KETCHIKAN AIRPORT
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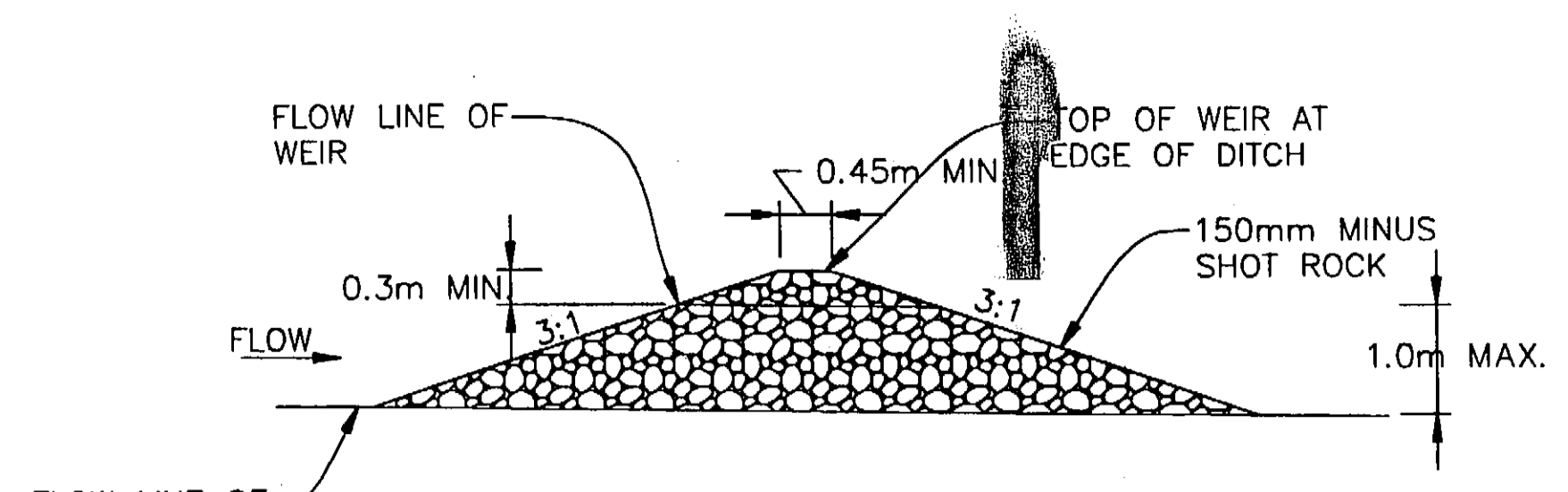
**Erosion & Sediment
 Control Details**

PROJECT DESIGNATION NUMBER
AIP NO. 3-02-0144-1402

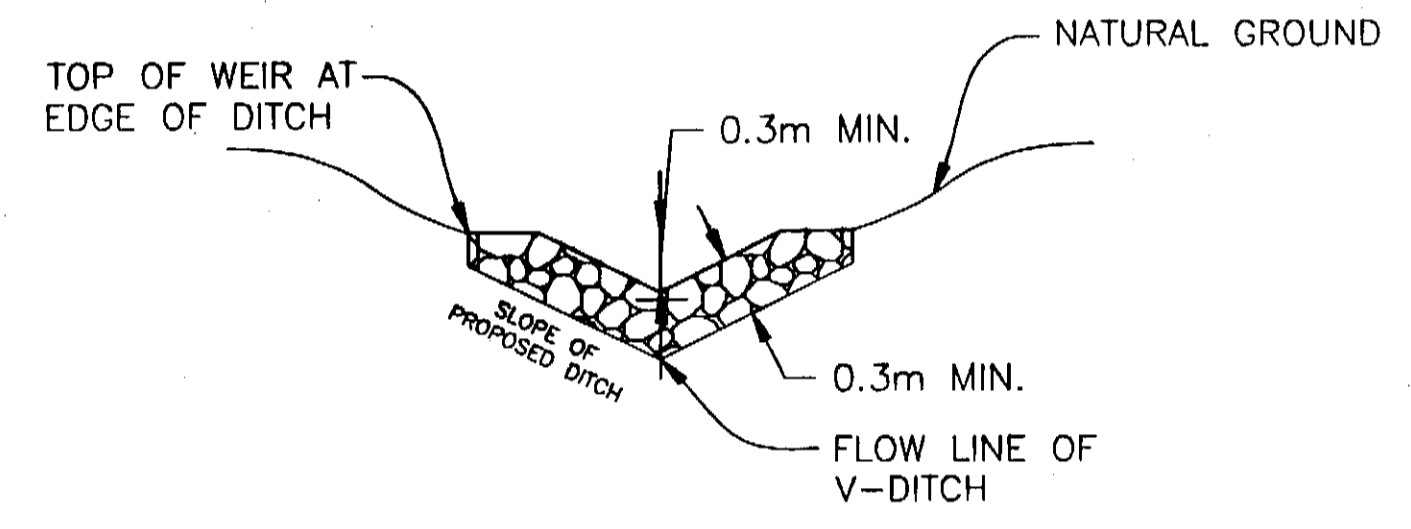
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
K3	48



Plan View

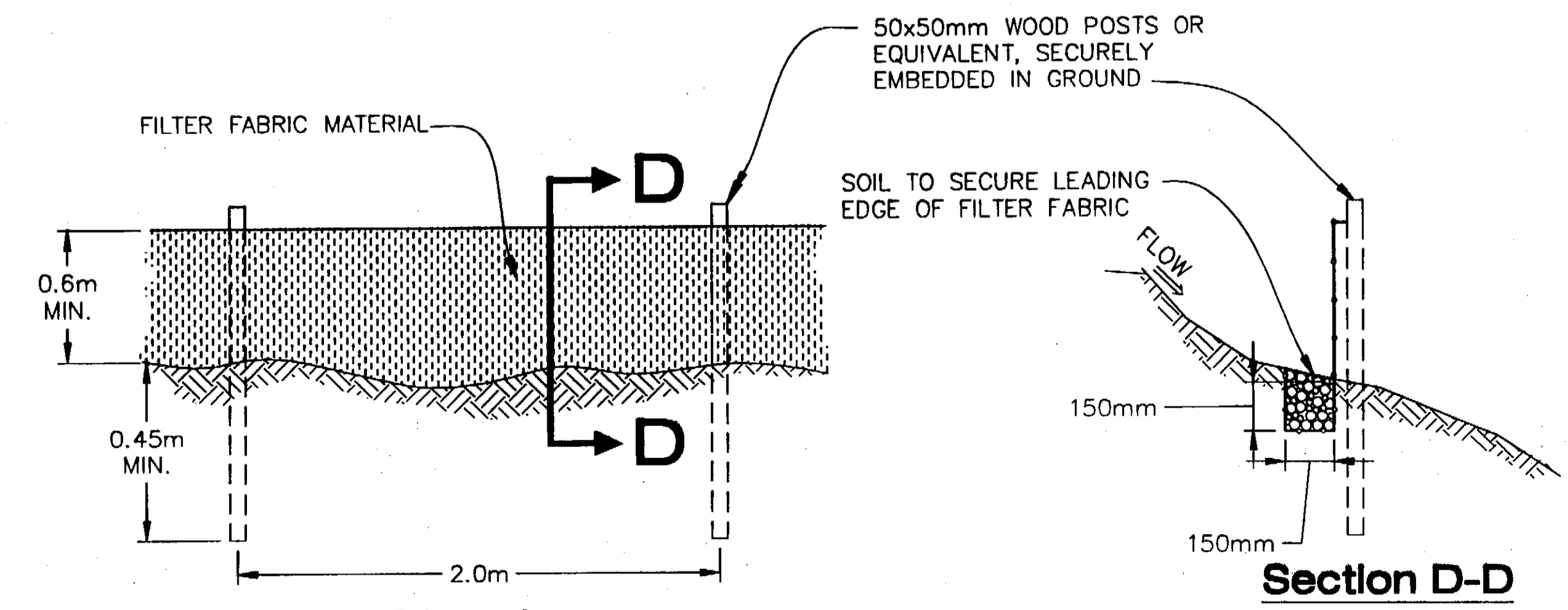


Section A-A



Section B-B

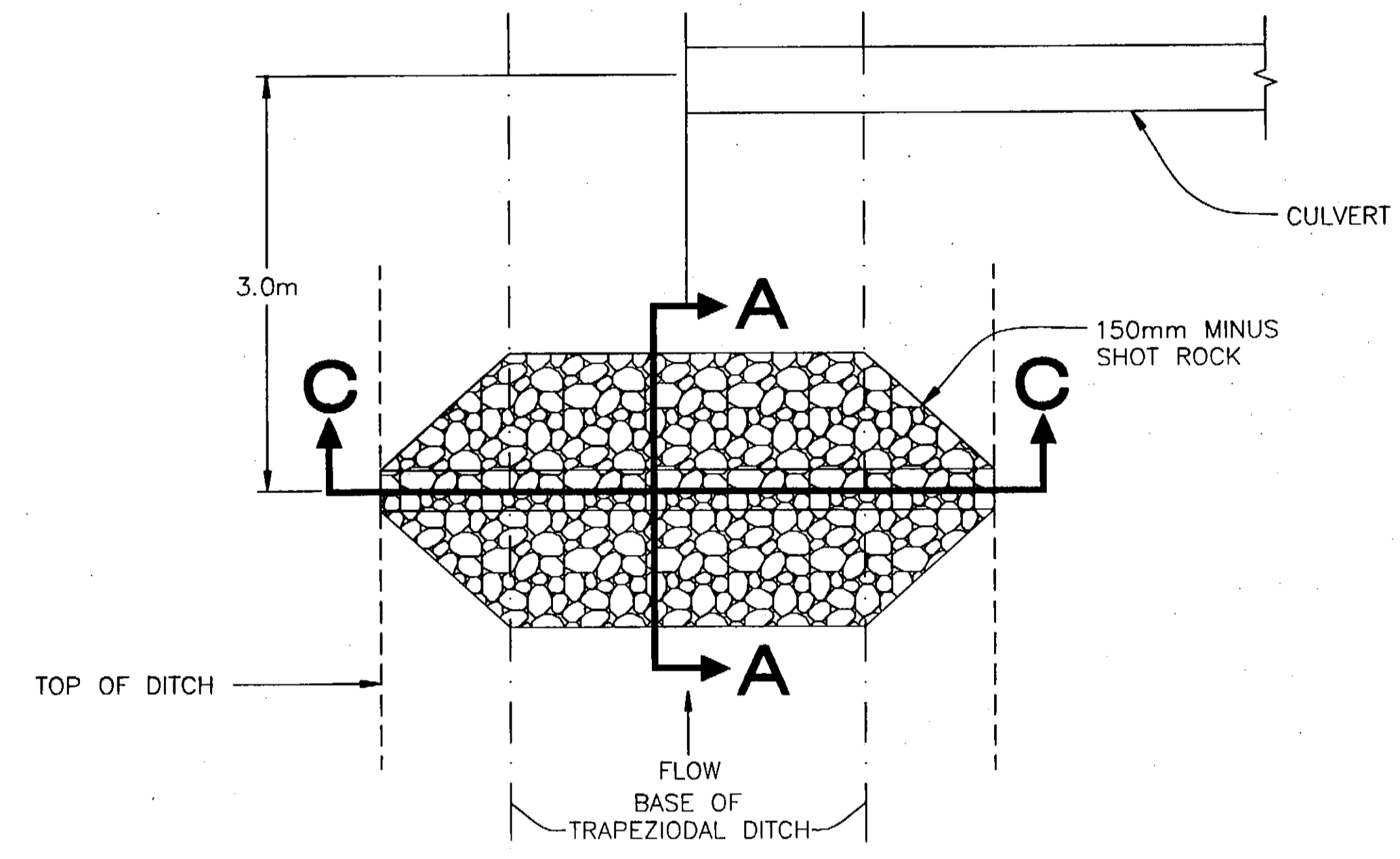
Detail For V-Ditch Check Dam



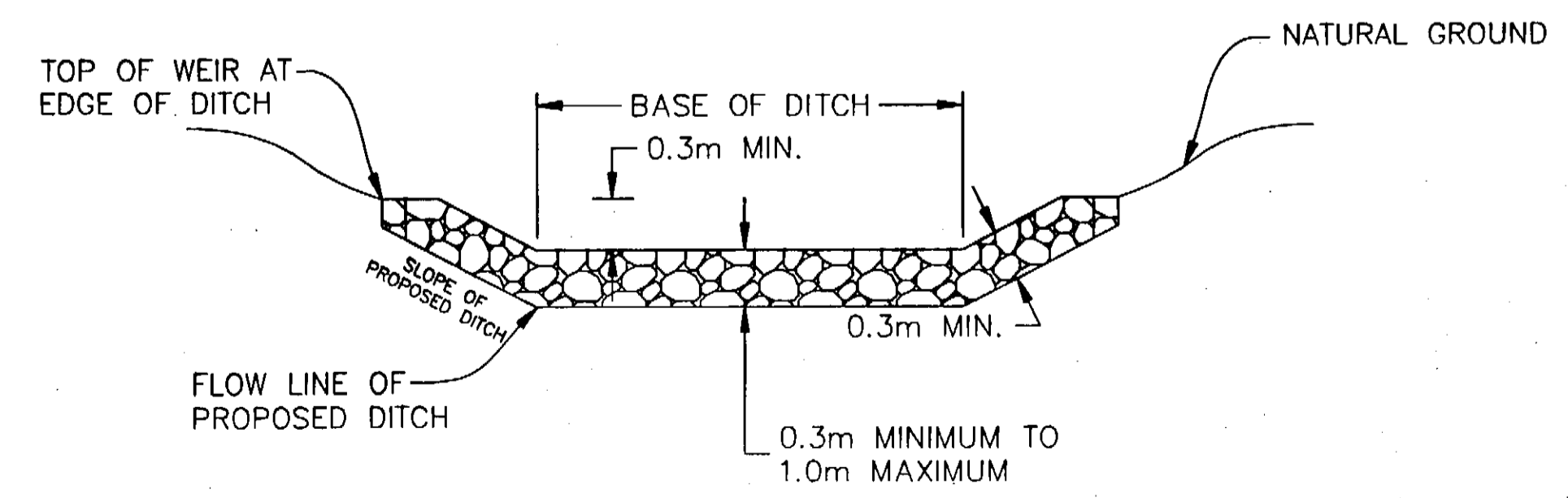
Elevation

Silt Fence Details

Section D-D



Plan View



Section C-C

Detail For Trapezoidal Ditch Check Dam

NOTE
 SEE THE ESCP NARRATIVE ATTACHED TO THE SPECIFICATIONS
 AS APPENDIX F, AND THE ENVIRONMENTAL COMMITMENTS IN
 APPENDIX B.

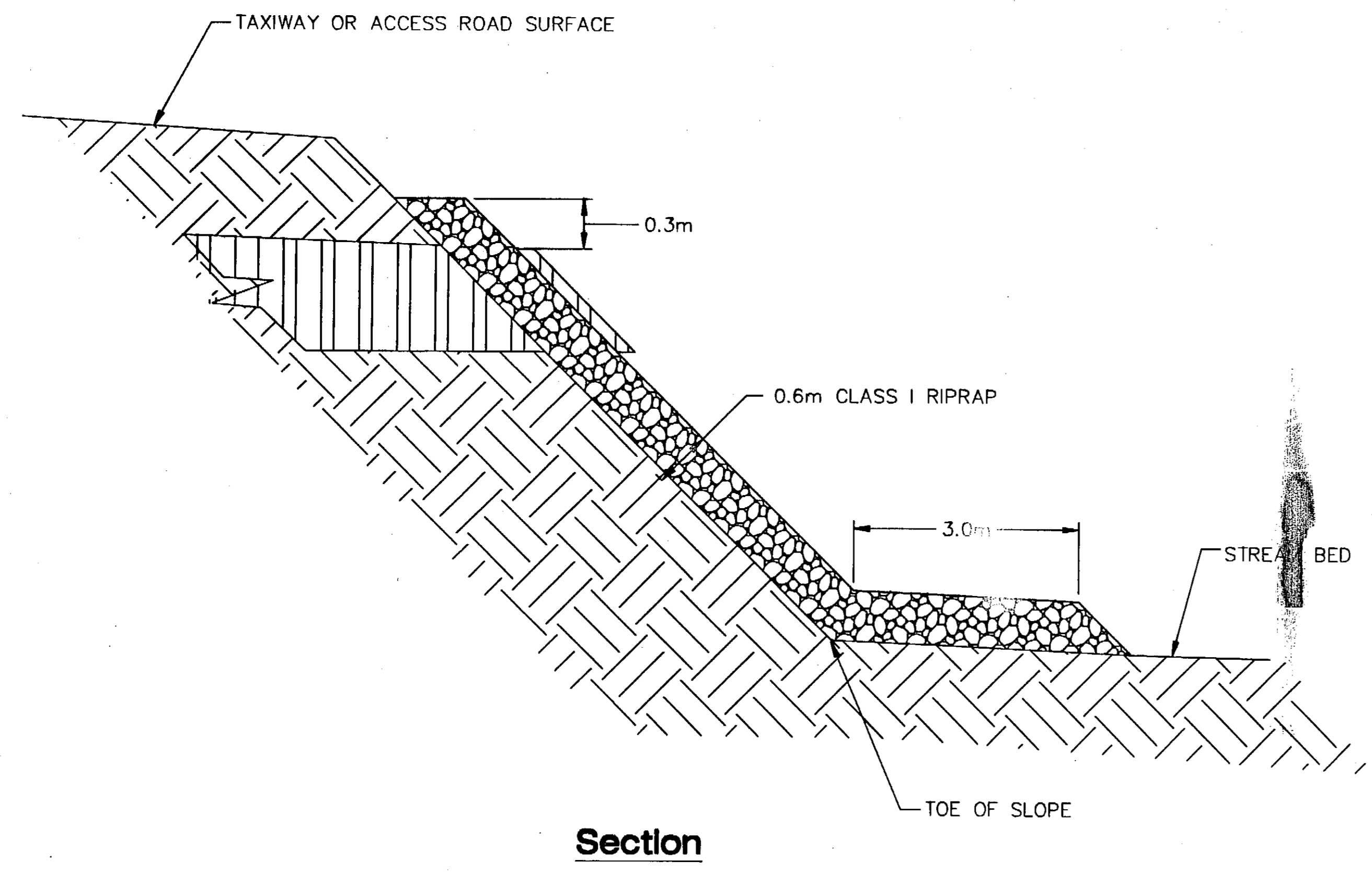
EROSION & SEDIMENT CONTROL DETAILS

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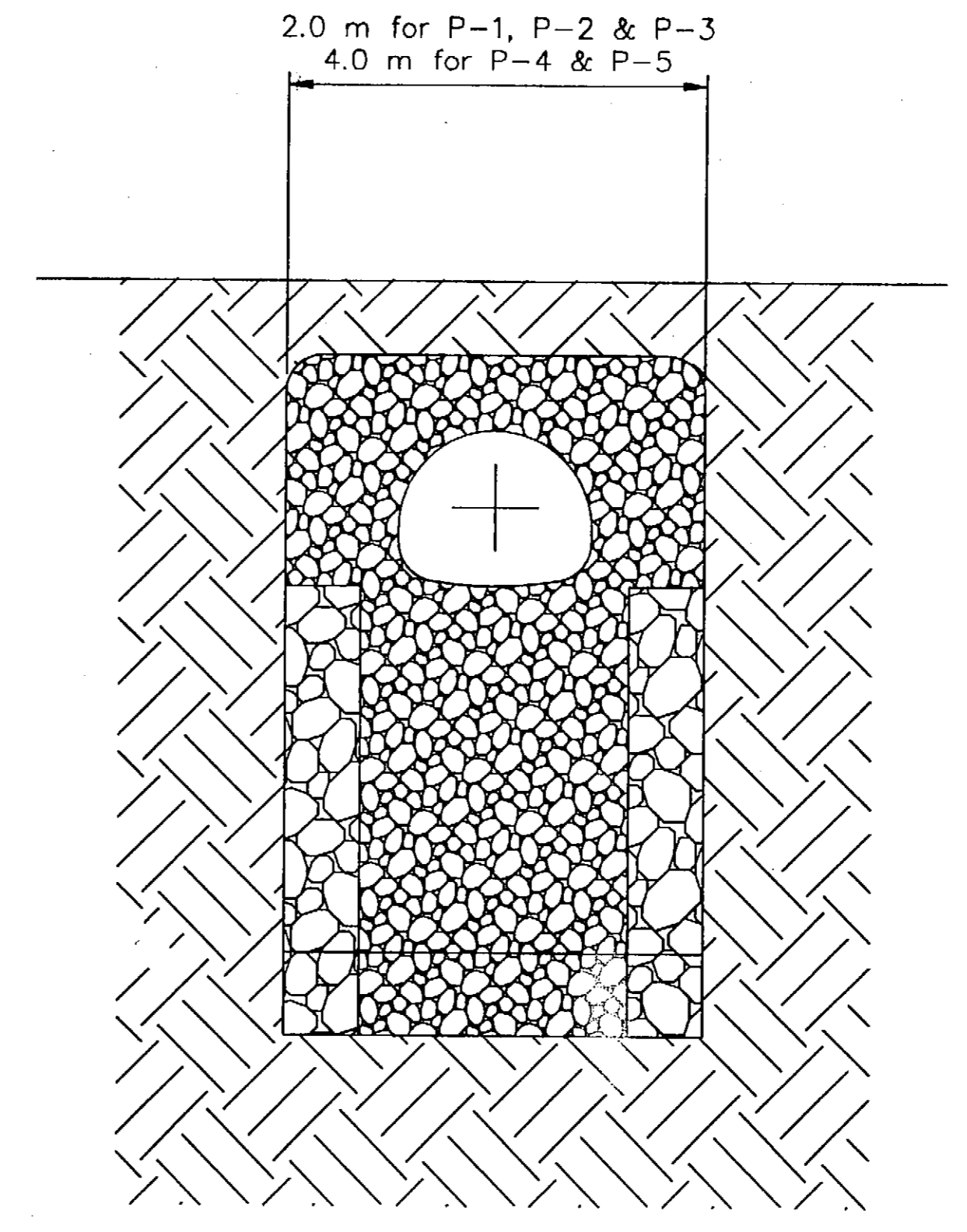
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**KETCHIKAN AIRPORT
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**Erosion & Sediment
 Control Details**



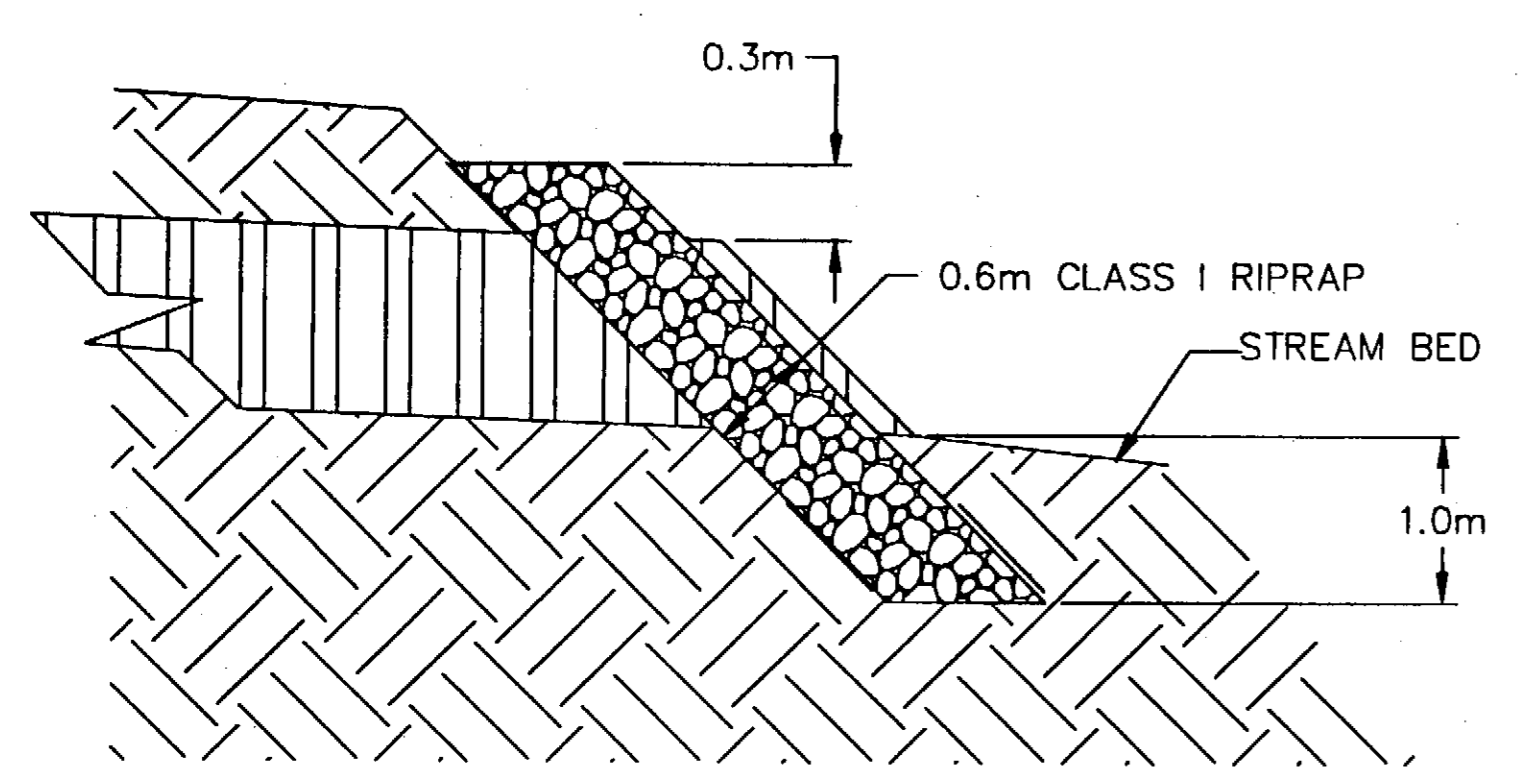
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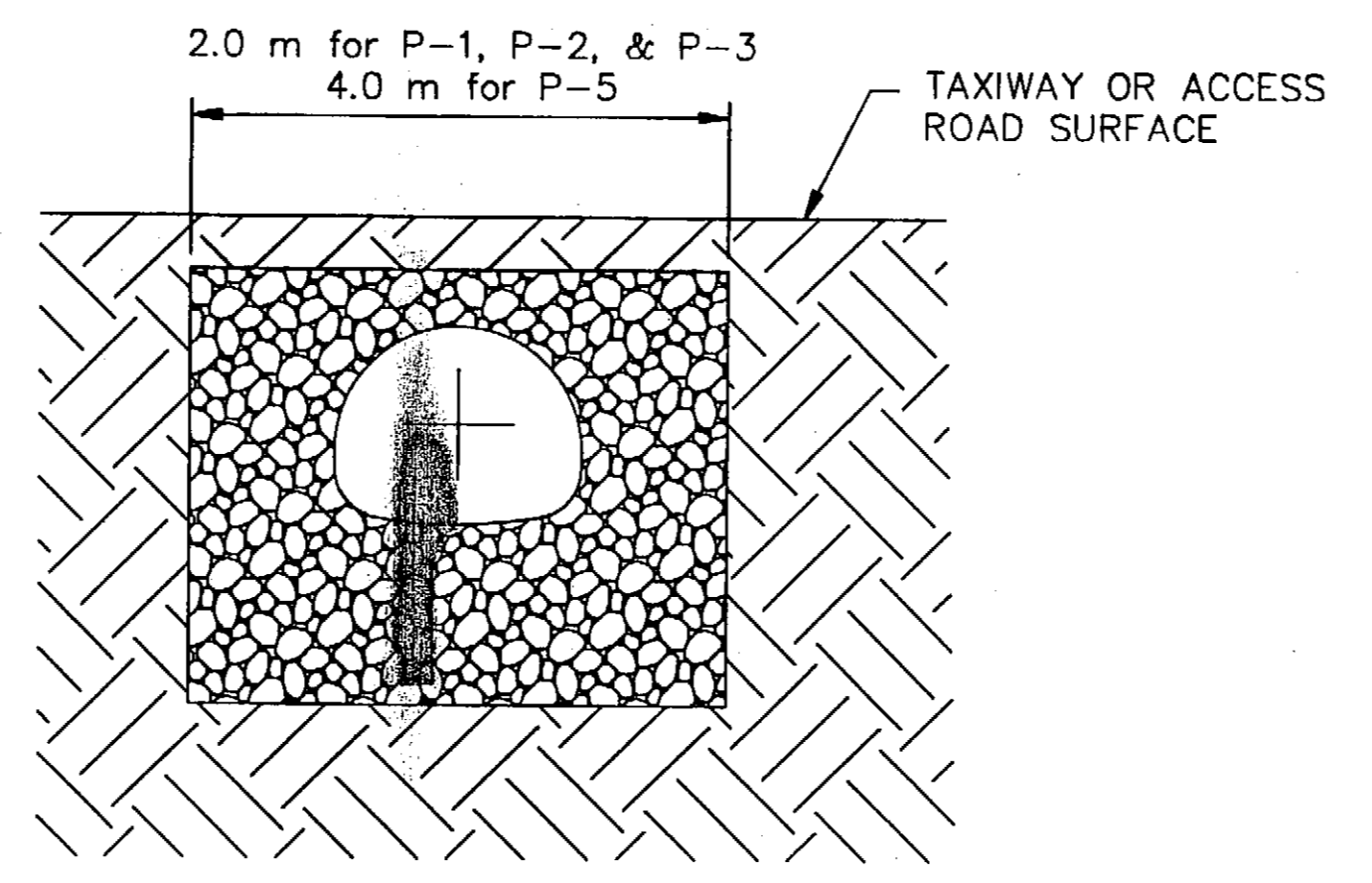
Elevation

**Outlet Armor
 (P-1, P-2, P-3, P-4, & P-5)**

NOTE:
 HEADWALLS AND END EXTENSIONS
 NOT SHOWN FOR CLARITY.



Section

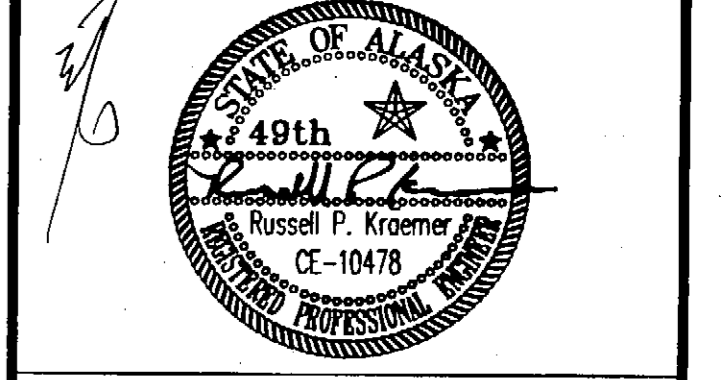


Elevation

**Inlet Armor
 (P-1, P-2, P-3, P-4, & P-5)**

EROSION & SEDIMENT CONTROL DETAILS

DESIGNED BY: R. KRAEMER



CHECKED BY: VICTOR M. WINTERS

DRAWN BY: M.L./R.S.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
**KETCHIKAN AIRPORT
 WEST TAXIWAY
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**Erosion & Sediment
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