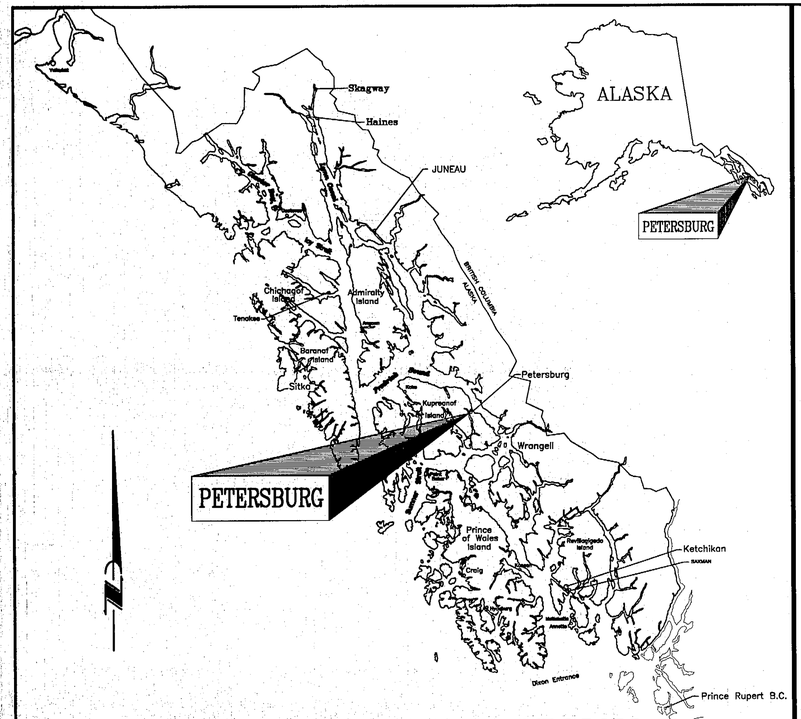


SOUTHEAST ALASKA REGION

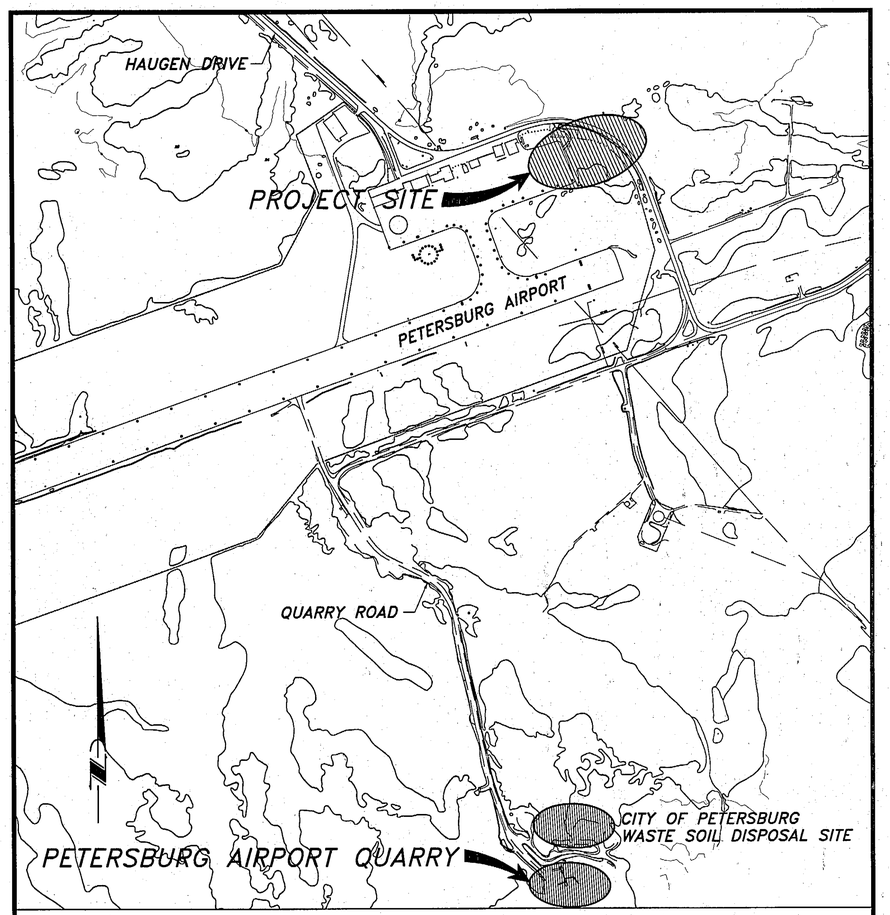
GRAPHIC SCALE IN MILES
0 25 50 75 100 125 150

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG, ALASKA

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION

PROJECT NO. 68283 / AIP 03-02-0219-0903



VICINITY MAP

GRAPHIC SCALE IN FEET
0 200 400 600 800 1000 1200

AIRPORT DESIGN DATA:

AIRPORT TYPE:_____COMMERCIAL SERVICE
SERVICE LEVEL:_____TRANSPORT
TAXIWAY WIDTH:_____90'
TAXIWAY SAFETY AREA WIDTH: 118'
APRON AREA:_____1100'x250'
AIRPORT APPROVAL CATAGORY: C
AIRPLANE DESIGN GROUP:_____III
DESIGN AIRCRAFT:_____B 737-400

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
A1	COVER SHEET
A2	EXISTING SITE CONDITIONS
A3	PROJECT LAYOUT PLAN
A4	ESTIMATE OF QUANTITIES
A5	TYPICAL SECTIONS
A6	APRON PLAN – STA "A" 12+00 TO STA "A" 16+30
A7	PLAN & PROFILE – STA "B" 10+00 TO STA "B" 15+00
A8	PLAN & PROFILE – STA "B" 15+00 TO STA "B" 19+84.01
A9	NEW ENTRANCE PLAN
A10	CONCRETE HARDSTAND
A11	CONSTRUCTION DETAILS
A12	ELECTRIC GATE PLAN
A13	FENCE DETAILS
A14	STRIPING & TIE-DOWN PLAN
A15	DRAINAGE PROFILE & DETAIL
A16	EROSION AND SEDIMENT CONTROL PLAN
A17	SAFETY PLAN
A18	SIGN LOCATION PLAN
A19	SIGNING DETAILS
A20	STAIR PLAN & DETAILS
E1	ELECTRICAL SITE PLAN
E2	APRON ELECTRICAL
E3	ELECTRICAL PLAN STA "B" 10+00 TO STA "B" 15+00
E4	ELECTRICAL PLAN STA "B" 15+00 TO STA "B" 19+84.01
E5	TAXIWAY LIGHTING DETAILS
E6	APRON FLOOD LIGHTING DETAILS
E7	ELECTRICAL GATE DETAILS
E8	GATE ONE LINE DIAGRAM & MISCELLANEOUS DETAILS

AS-BUILT PLANS
SOUTHEAST ENGINEERING INC.
TINA BERGAM - PROJ. ENGINEER
10/28/03 - 10/1/04

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED

_____ Date _____
Patrick J. Kemp, P.E.
Regional Preconstruction Engineer

APPROVED

_____ Date _____
Gary Paxton
Regional S.E. Director

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

PROJECT NUMBER: 68283
AIP 03-02-0219-0903

DATE:
July, 2003

SHEET A1 OF 28

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

F:\DOT CO\1301-CVR.DWG PLOT: September 22, 2003 at: 11:16am

LEGEND

- BRASS CAP MONUMENT RECOVERED
- REBAR AND AL CAP RECOVERED
- 4x4 WOOD POST RECOVERED
- SURVEY CONTROL POINT
- WATER VALVE/CURB STOP
- POWER POLE – LP DENOTES LIGHT POLE
- OHE—OHE— OVERHEAD ELECTRICAL
- UE—UE— UNDERGROUND ELECTRICAL – APPROX LOCATION
- P—P— UNDERGROUND TELEPHONE – APPROX LOCATION
- PHONE PEDESTAL
- WATERLINE – APPROX LOCATION
- X—X— CHAINLINK FENCE
- 90 CONTOUR INTERVAL
- EXISTING BUILDING
- EXISTING CMP
- EXISTING DRAINAGE

BASIS FOR HORIZONTAL & VERTICAL CONTROL
Petersburg Grid 2001
Project # 68283

HORIZONTAL CONTROL

Horizontal Control for this project is based on the DOT/PF 2001 PSG Grid

The DOT/PF Petersburg Grid–2001 System is a local ground coordinate system based at NGS Primary Airport Control Station PSG–D. It relates to AKSPC zone 1 NAD83 through the following parameters:
Zone = NAD83 AKSPC ZONE 1
Grid Scale = 0.999905
Convergence = +0°36'11"
Translation about NGS point PSG–D as follows:
AKSPC Northing = 1815770.3578 FT US
AKSPC Easting = 2832689.3475 FT US
Local Northing = 300000.0000 FT US
Local Easting = 200000.0000 FT US

Basis of Coordinates for this project established with SKI PRO static GPS processing and Starnet least squares adjustment.

Project Specific Basis of Horizontal Control

PSG–D : Punch in Stainless Rod inside PVC near North VASI light at East end runway.
PSG–Grid N 300000.0000 FT US, E 200000.0000 FT US
AKSPC N 1815770.3581 FT US , E 2832689.3483 FT US

PSG–A : 3" brass cap set in NE corner of runway sign 22–4.
PSG–Grid N 300454.1168 FT US, E 200197.6127 FT US
AKSPC N 1816226.4860 FT US, E 2832882.1514 FT US

VERTICAL CONTROL

The Vertical Datum for PSG Grid–2001 is MLLW (9451439) PSG Wrangell Narrows tidal datum based on third order levels and supplemented with GEOID '99 Modeled Heights. The basis of vertical control is NOAA BM1439A having a published of 25.82' above MLLW 1960–1978 tidal epoch. Static GPS sessions and geoid '99 were used to transfer elevation to NGS PACS PSG–D in July 2001.

The Project Specific Basis of Vertical Control is PSG–D having an accepted elevation of 103.23 feet above MLLW.

NOTES:
1) THIS SURVEY PERFORMED BY GREG SCHEFF AND ASSOCIATES DURING OCTOBER 2002 WITH GARRITH MCLEAN.
2) SCHEFF'S PROJECT HAS BEEN PUT ON PSG–GRID BASED AT PSG–D AND ROTATED TO PSG–A.
3) ORIGINAL POINT NUMBERS HAVE BEEN CHANGED AS FOLLOWS:
MAIN CTRL 1–4
NGS RECORD PACS/SACS 12–13
PROPERTY 200–206
TOPO HAS BEEN OFFSET BY 4000.
DVIEW SET AT 72°
4) TOPOGRAPHIC SURVEY INFORMATION SHOWN PROVIDED TO R&M ENGINEERING FROM DOT/PF.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE ____ Date 2/1/05

GRAPHIC SCALE IN FEET
0 20 40 60 80 100 120

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS – USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

PATH:

BY:	DATE:	DESCRIPTION OF CHANGE:

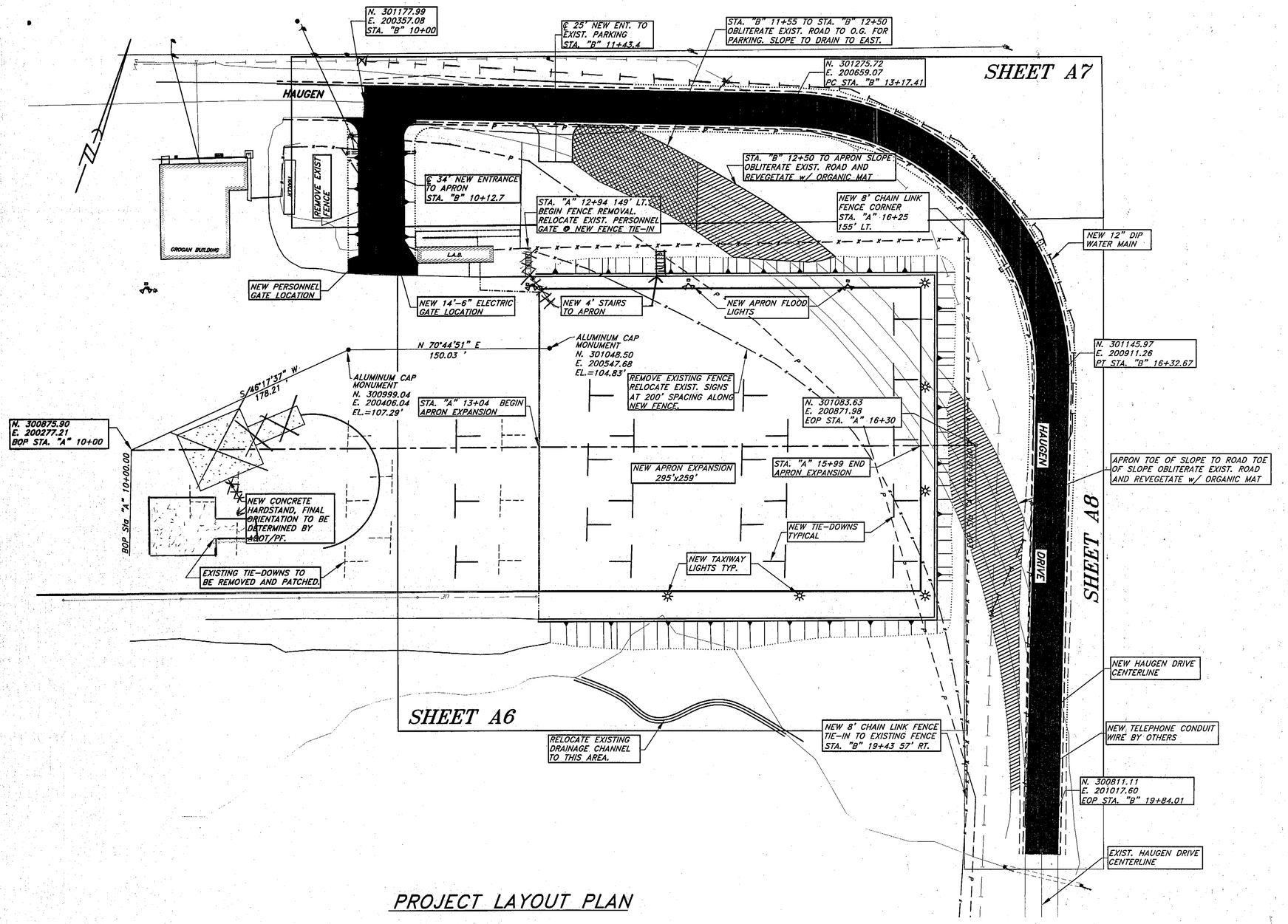
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*
PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
EXISTING SITE CONDITIONS

DESIGNED BY: CRC	PROJECT NO. 68283 AIP 03-02-0219-0903
DRAWN BY: CRC	DATE: July, 2003
CHECKED BY: JMP	SHEET 12 OF 28

F:\JMP CIVIL\12 - EXISTING TOPO.DWG PLOT: September 22, 2003 at 11:12am



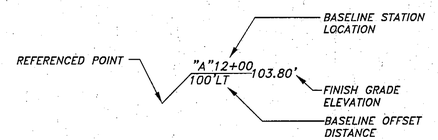
PROJECT LAYOUT PLAN

GRAPHIC SCALE

0' 20' 40' 80' 160'

SYMBOLS

EXISTING	PROPOSED	
		PROPERTY / BOUNDARY LINE
		PROJECT BASELINE
		STORM DRAIN PIPE
		UNDERGROUND ELECTRIC
		SAWCUT AND M.T.E.
		WATER LINE
		WATER VALVE
		CUT SLOPE LIMITS
		FILL SLOPE LIMITS
		TOP OF BANK/SHOULDER
		TRAFFIC CONTROL SIGN
		CHAINLINK FENCE
		TELEPHONE
		CONCRETE SURFACE
		STRUCTURE
		GATE
		APRON LIGHT
		APRON FLOOD LIGHT
100		CONTOUR
		TIE-DOWN ANCHOR LOCATIONS
		ROAD OBLITERATION & ORGANIC MAT PLACEMENT
		ROAD OBLITERATION



FINISH GRADE EXPLANATION

N.T.S.

ABBREVIATIONS

ADOT/PF	– ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
B.O.P.	– BEGINNING OF PROJECT
℄	– CENTERLINE
C.T.E.	– CONNECT TO EXISTING
CPP	– CORRUGATED PLASTIC PIPE
CMP	– CORRUGATED METAL PIPE
DIP	– DUCTILE IRON PIPE
E.	– EAST
EL.	– ELEVATION
ENT.	– ENTRANCE
E.O.P.	– END OF PROJECT
EXIST.	– EXISTING
I.E.	– INVERT ELEVATION
LT.	– LEFT
M.T.E.	– MATCH TO EXISTING
N.	– NORTH
PC	– POINT OF CURVATURE
P.C.C.	– PORTLAND CEMENT CONCRETE
PT	– POINT OF TANGENT
RT.	– RIGHT
STA.	– STATION
T.B.M.	– TEMPORARY BENCH MARK
TYP.	– TYPICAL

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE J. BEYER Date 2/1/05

PLANS DEVELOPED BY: R&M ENGINEERING, INC.

NOTE: DO NOT SCALE FROM THESE PLANS – USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA 19TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
PROJECT LAYOUT PLAN

DESIGNED BY: CRC	PROJECT NO. 68283 AIP 03-02-0219-0903
DRAWN BY: CRC	DATE: July, 2003
CHECKED BY: JMP	SHEET 43 OF 28

F:\907 CO\OVERALL.DWG PLOT: September 22, 2003 at: 12:01pm

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
P-151b	CLEARING	LUMP SUM	ALL REQUIRED
P-152a	UNCLASSIFIED EXCAVATION	C.Y.	~~55,021~~ 68908.50
P-152d	DRAINAGE EXCAVATION	L.F.	~~175~~ 144
P-152h	BORROW EMBANKMENT	C.Y.	~~75,580~~ 81016
P-160a	REINFORCEMENT GEOTEXTILE	S.Y.	~~645~~ 263
P-165a	EXCAVATION AND DISPOSAL OF PAVEMENT MATERIALS	S.Y.	~~2,010~~ 2899
P-165b	ROAD OBLITERATION	S.Y.	~~1,624~~ 1207
P-209b	CRUSHED AGGREGATE BASE COURSE	TON	~~9,330~~ 8291.25
P-401a	BITUMINOUS MIXTURE	TON	~~1,554~~ 1391.85
P-401b	BITUMINOUS PRICE ADJUSTMENT	LUMP ~~XXX~~ SUM	~~ALL REQUIRED~~
P-401c	BITUMINOUS MATERIAL, PG58-28	TON	~~96~~ 80.52
P-610a	STRUCTURAL PORTLAND CEMENT CONCRETE	C.Y.	~~153~~ 170.19
P-620c	ROADWAY AND TAXIWAY PAINTING COMPLETE	LUMP SUM	ALL REQUIRED
P-650a	SOIL ANCHOR TIE-DOWN	SET	20
F-162a	8' CHAINLINK FENCE	L.F.	~~894~~ 878.20
F-162d	14'-6" SINGLE CANTILEVER GATE	EACH	1
F-162f	3' PEDESTRIAN GATE (W/ KEYLESS LOCK)	EACH	1
F-162g	CHAINLINK FENCE REMOVAL	L.F.	~~654~~ 637.
F-162h	RELOCATE PEDESTRIAN GATE	~~EACH~~	1
F-163a	ELECTRIC GATE OPERATOR AND ACCESSORIES	~~EACH~~ LS	ALL 1 REQD
D-701a	CORRUGATED POLYETHYLENE PIPE, 18-INCH	L.F.	~~52~~ 54
~~D-701a~~	~~CORRUGATED METAL PIPE ARCH, 28"X20"~~	~~L.F.~~	~~40~~
~~D-752d~~	~~CONCRETE HEADWALL~~	~~EACH~~	~~1~~
~~W-100a~~	~~12 INCH D.I.P. WATER MAIN~~	~~L.F.~~	~~372~~
~~W-200a~~	~~12 INCH GATE VALVE~~ BUTTERFLY VALVE	~~EACH~~	~~2~~
~~T-901a~~	~~SEEDING~~	~~ACRE~~	~~0.41~~
~~T-905a~~	~~TOPSOILING~~	~~S.Y.~~	~~2,305~~
T-911a	ORGANIC MAT RESTORATION	S.Y.	~~5,955~~ 5006
L-100a	TAXIWAY MARKER LIGHT, L-861T	EACH	6
L-100b	MANHOLE	EACH	2
L-108a	UNDERGROUND CABLE #8 AWG, COPPER, 5KV FAA TYPE C, L-824	L.F.	~~1300~~ 1653
L-108b	#8 INSULATED COPPER GROUND CONDUCTOR	L.F.	~~550~~ 543
L-110a	2" SCH 40 PVC CONDUIT	L.F.	~~775~~ 711
L-110b	4" HDPE CONDUIT	L.F.	~~1000~~ 1004
L-110c	2" SCH 40 PVC CONDUIT UNDER APRON	L.F.	~~220~~ 100
L-112	APRON FLOOD LIGHTING	LUMP SUM	ALL REQUIRED
M-100a	CONSTRUCT STAIRWAY	LUMP SUM	ALL REQUIRED
S-615a	STANDARD SIGNS	EACH	9
S-615b	REMOVE AND RELOCATE EXISTING SIGNS	EACH	3
G-100a	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
~~G-138a~~	~~FIELD OFFICE~~	~~LUMP SUM~~	~~ALL REQUIRED~~
G-131a	ENGINEERING TRANSPORTATION	LUMP SUM	ALL REQUIRED
G-135a	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LUMP SUM	ALL REQUIRED
G-135b	THREE PERSON SURVEY PARTY	HOUR	100
G-135c	MONUMENTS BY THE CONTRACTOR	LUMP SUM	ALL REQUIRED
G-140a	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
P-157a	EROSION & POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
P-157c	TEMPORARY EROSION & POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
P-157d	TEMPORARY EROSION & POLLUTION CONTROL AMENDMENTS	CONT. SUM	ALL REQUIRED

New Items Established by Change Order

D-701a-3	Corrugated Polyethylene Pipe, 24 Inch	L.F.	60.00	54.00	$3,240.00
W-100a	14 Inch DIP Water Main	L.F.	87.00	808.00	$70,296.00
W-200a	14 Inch Butterfly Valves	Each	1,500.00	2.00	$3,000.00
P-401b	Bituminous Price Adjustment	L.S.	-36,619.66	1.00	-$36,619.66
P-152i	BorrowEmbankment Price Adjustment	S.Y.	-0.30	81,016.40	-$24,304.92
P-209b	Crushed Aggregate Base Course Price Adjustment	L.S.	-15,000.00	1.00	-$15,000.00
W-100c	Water Line Repairs	L.S.	16,597.00	All Req'd.	$16,597.00
W-100d	Install Water Service	L.S.	1,500.00	All Req'd.	$1,500.00
W-100e	Extend Sewer Service	L.S.	3,190.00	All Req'd.	$3,190.00
P-620d	Tie-down Striping Removal	L.S.	700.00	All Req'd.	$700.00
P-152j	Slope Stabilization Rock	L.S.	700.00	All Req'd.	$700.00

BASIS OF ESTIMATE

ITEM No.	PAY ITEM	ESTIMATING FACTOR
P-209b	CRUSHED AGGREGATE BASE COURSE	1.96 TONS/C.Y.
P-401a	BITUMINOUS MIXTURE	2.10 TONS/C.Y. 116.6 POUNDS/S.Y.-IN.
P-401c	BITUMINOUS MATERIAL, PG 58-28	6% OF ITEM P-402a

GENERAL NOTES

1. GRADES AND ALIGNMENTS SHOWN MAY BE SUBJECT TO MINOR REVISIONS AS APPROVED OR DIRECTED BY THE ENGINEER.
2. FINISHED GRADING ELEVATIONS GIVEN ARE TO TOP OF ASPHALT CONCRETE SURFACE.
3. CONTRACTOR TO PERFORM DRAINAGE RELOCATION BEFORE EXCAVATION OF APRON EXPANSION BEGINS.
4. CONTRACTOR TO PERFORM EROSION AND SEDIMENT CONTROL PER PLAN BEFORE DISTURBING ORIGINAL GROUND.
5. IN AREAS TO BE EXCAVATED, CONTRACTOR SHALL DETERMINE THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES DURING CONSTRUCTION.
6. THE EAST APRON RECONSTRUCTION OPERATIONS SHALL COMPLY WITH THE PROJECT OPERATIONS PLAN, SECTION 80-04, OF THE TECHNICAL SPECIFICATIONS, AND THE PROJECT ENVIRONMENTAL COMMITMENTS.
7. CONTRACTOR SHALL BACKFILL CONCURRENTLY WITH EXCAVATION WORK TO MINIMIZE THE SIZE OF OPEN EXCAVATED AREAS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE J. BETZ GABBE 2/1/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

PATH:

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

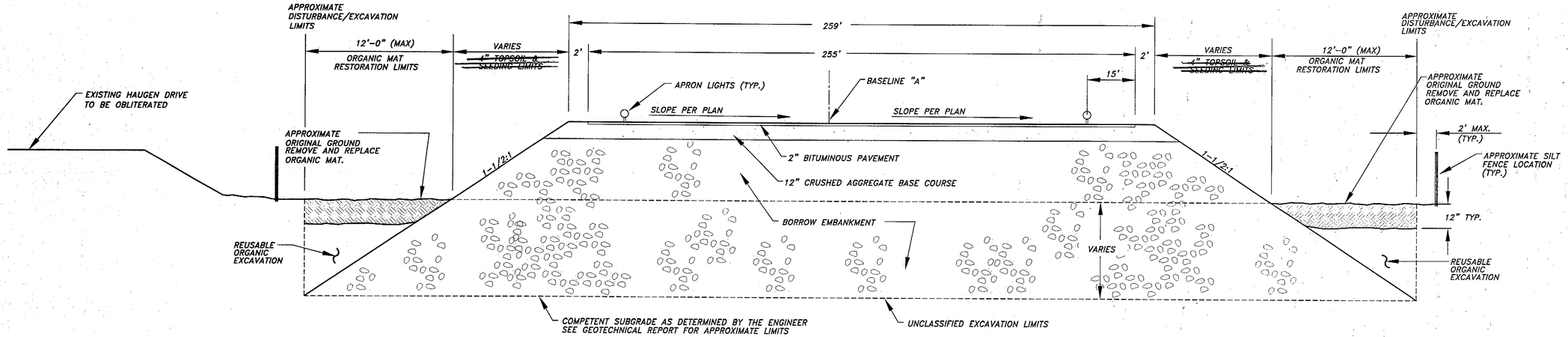
PETERSBURG ALASKA
PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
ESTIMATE OF QUANTITIES

DESIGNED BY: CRC	PROJECT NO. 68283 AIP 03-02-0219-0903
DRAWN BY: CRC	DATE: July, 2003
CHECKED BY: JMP	SHEET 44 OF 28

PLOT: September 22, 2003 at 12:37pm
F:\DOT GD\GTF.DWG

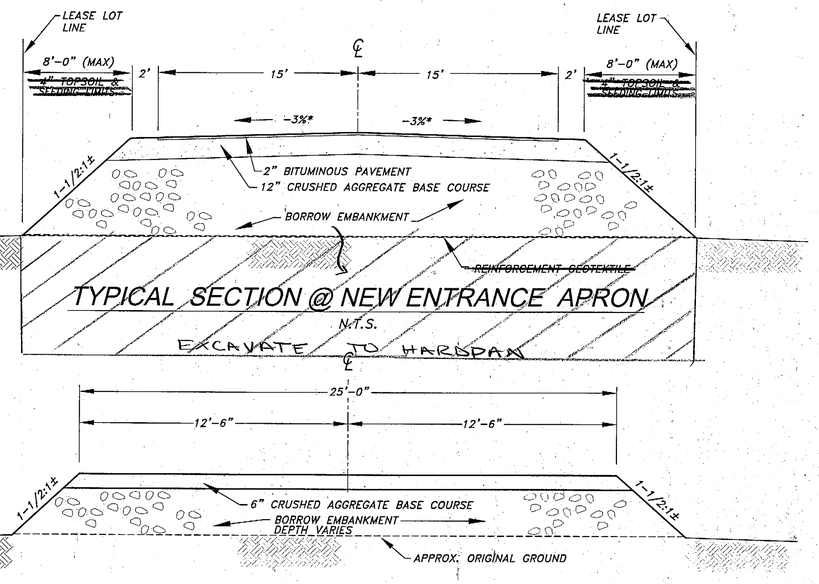
TYPICAL SECTION NOTES:

1) VIEWS LOOKING AHEAD IN STATIONING.



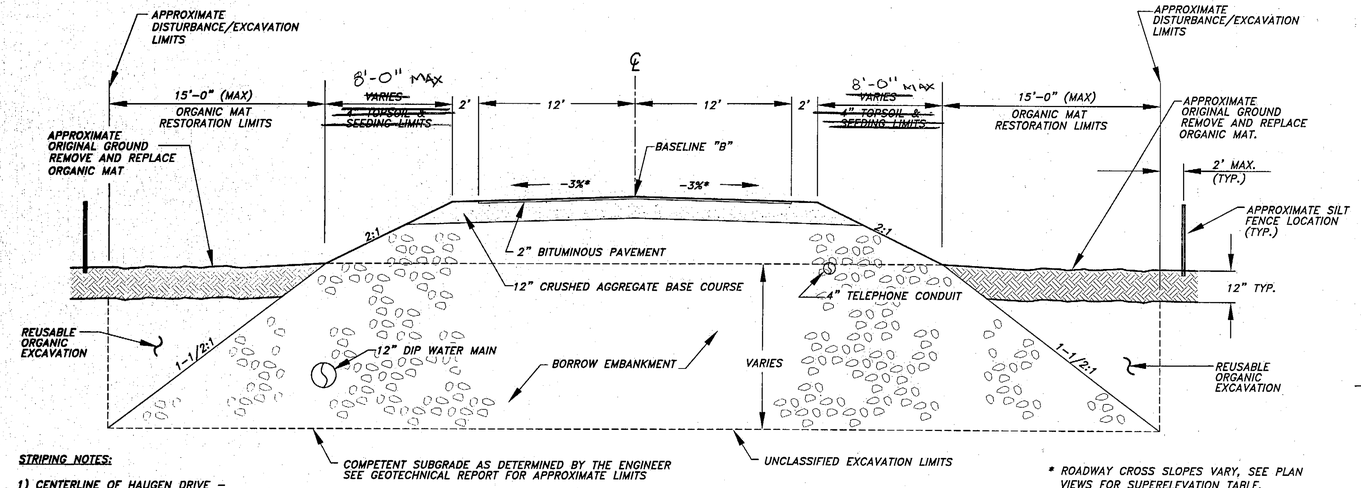
APRON TYPICAL SECTION

N.T.S.



TYPICAL SECTION @ NEW ENTRANCE APRON

N.T.S.



STRIPING NOTES:

1) CENTERLINE OF HAUGEN DRIVE – 6" SOLID DOUBLE YELLOW STRIPES

2) EDGE OF PAVEMENT – 6" SOLID WHITE STRIPE EACH SIDE

* ROADWAY CROSS SLOPES VARY, SEE PLAN VIEWS FOR SUPERELEVATION TABLE.

ROADWAY TYPICAL SECTION - HAUGEN DRIVE

N.T.S.

TYPICAL SECTION @ EXIST. PARKING LOT ENTRANCE

N.T.S.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. Berga Date 2/11/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS – USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

PATH:

BY:	DATE:	DESCRIPTION OF CHANGE:

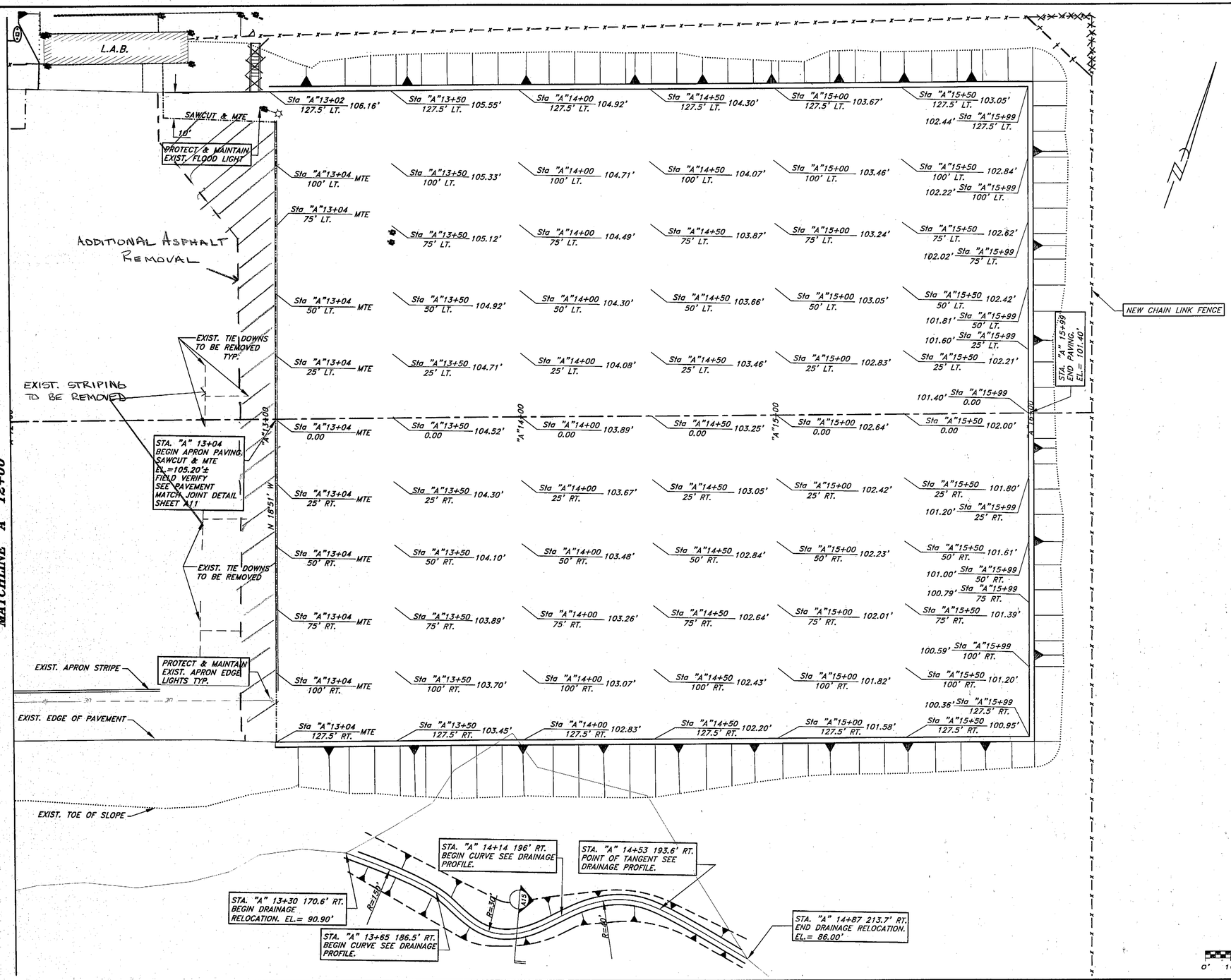
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*
PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
TYPICAL SECTIONS

DESIGNED BY:	CRC	PROJECT NO. 68283 AIP 03-02-0219-0903	
DRAWN BY:	CRC	DATE:	July, 2003
CHECKED BY:	JMP	SHEET	A5 OF 28

PLOT: September 22, 2003 at: 11:11am
F:\DOT GA\23 TYP. SECTION.DWG



Sta "A"13+02 127.5' LT.	Sta "A"13+50 127.5' LT.	Sta "A"14+00 127.5' LT.	Sta "A"14+50 127.5' LT.	Sta "A"15+00 127.5' LT.	Sta "A"15+50 127.5' LT.	Sta "A"15+99 127.5' LT.
106.16'	105.55'	104.92'	104.30'	103.67'	103.05'	102.44'
Sta "A"13+04 100' LT. MTE	Sta "A"13+50 100' LT.	Sta "A"14+00 100' LT.	Sta "A"14+50 100' LT.	Sta "A"15+00 100' LT.	Sta "A"15+50 100' LT.	Sta "A"15+99 100' LT.
	105.33'	104.71'	104.07'	103.46'	102.84'	102.22'
Sta "A"13+04 75' LT. MTE	Sta "A"13+50 75' LT.	Sta "A"14+00 75' LT.	Sta "A"14+50 75' LT.	Sta "A"15+00 75' LT.	Sta "A"15+50 75' LT.	Sta "A"15+99 75' LT.
	105.12'	104.49'	103.87'	103.24'	102.62'	102.02'
Sta "A"13+04 50' LT. MTE	Sta "A"13+50 50' LT.	Sta "A"14+00 50' LT.	Sta "A"14+50 50' LT.	Sta "A"15+00 50' LT.	Sta "A"15+50 50' LT.	Sta "A"15+99 50' LT.
	104.92'	104.30'	103.66'	103.05'	102.42'	101.81'
Sta "A"13+04 25' LT. MTE	Sta "A"13+50 25' LT.	Sta "A"14+00 25' LT.	Sta "A"14+50 25' LT.	Sta "A"15+00 25' LT.	Sta "A"15+50 25' LT.	Sta "A"15+99 25' LT.
	104.71'	104.08'	103.46'	102.83'	102.21'	101.60'
Sta "A"13+04 0.00 MTE	Sta "A"13+50 0.00	Sta "A"14+00 0.00	Sta "A"14+50 0.00	Sta "A"15+00 0.00	Sta "A"15+50 0.00	Sta "A"15+99 0.00
	104.52'	103.89'	103.25'	102.64'	102.00'	101.40'
Sta "A"13+04 25' RT. MTE	Sta "A"13+50 25' RT.	Sta "A"14+00 25' RT.	Sta "A"14+50 25' RT.	Sta "A"15+00 25' RT.	Sta "A"15+50 25' RT.	Sta "A"15+99 25' RT.
	104.30'	103.67'	103.05'	102.42'	101.80'	101.20'
Sta "A"13+04 50' RT. MTE	Sta "A"13+50 50' RT.	Sta "A"14+00 50' RT.	Sta "A"14+50 50' RT.	Sta "A"15+00 50' RT.	Sta "A"15+50 50' RT.	Sta "A"15+99 50' RT.
	104.10'	103.48'	102.84'	102.23'	101.61'	101.00'
Sta "A"13+04 75' RT. MTE	Sta "A"13+50 75' RT.	Sta "A"14+00 75' RT.	Sta "A"14+50 75' RT.	Sta "A"15+00 75' RT.	Sta "A"15+50 75' RT.	Sta "A"15+99 75 RT.
	103.89'	103.26'	102.64'	102.01'	101.39'	100.79'
Sta "A"13+04 100' RT. MTE	Sta "A"13+50 100' RT.	Sta "A"14+00 100' RT.	Sta "A"14+50 100' RT.	Sta "A"15+00 100' RT.	Sta "A"15+50 100' RT.	Sta "A"15+99 100' RT.
	103.70'	103.07'	102.43'	101.82'	101.20'	100.59'
Sta "A"13+04 127.5' RT. MTE	Sta "A"13+50 127.5' RT.	Sta "A"14+00 127.5' RT.	Sta "A"14+50 127.5' RT.	Sta "A"15+00 127.5' RT.	Sta "A"15+50 127.5' RT.	Sta "A"15+99 127.5' RT.
	103.45'	102.83'	102.20'	101.58'	100.95'	100.36'

GRAPHIC SCALE
0' 10' 20' 40' 80'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE J. BERGAN Date 2/1/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS – USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

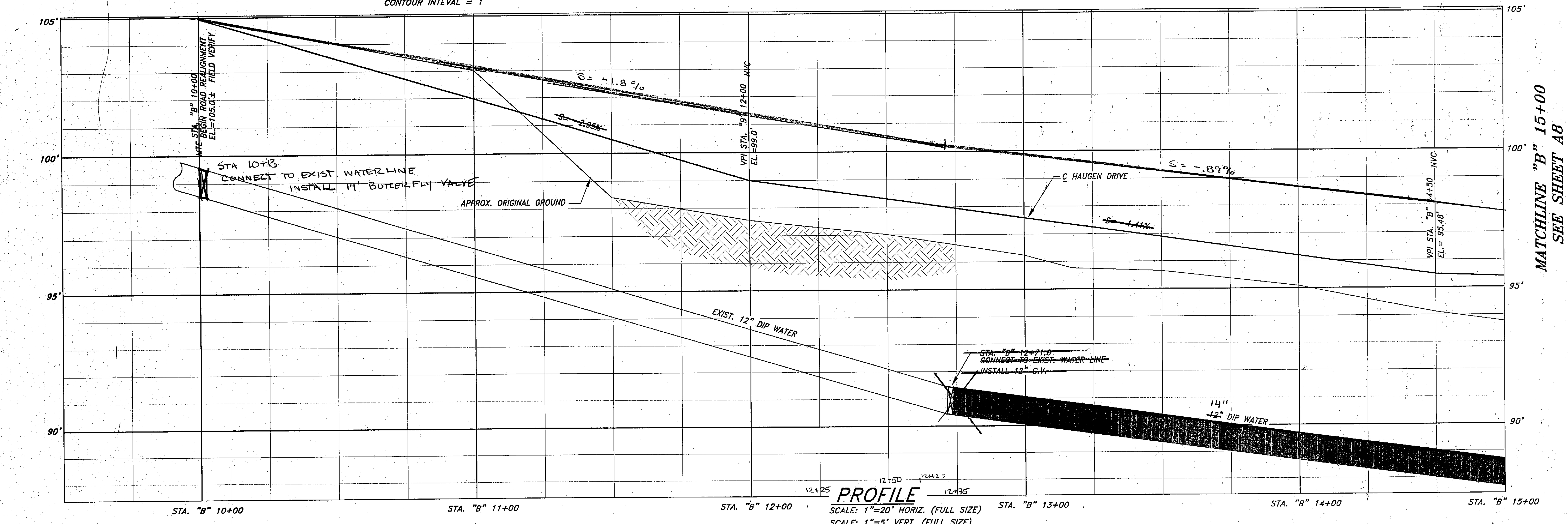
PETERSBURG ALASKA
PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
APRON PLAN STA. "A" 12+00 TO STA. "A" 16+30

DESIGNED BY: CRC	PROJECT NO. 68283 AIP 03-02-0219-0903
DRAWN BY: CRC	DATE: July, 2003
CHECKED BY: JMP	SHEET A6 OF 28

F:\JOB\CO\PLAN SHEETS.DWG PLOT: September 22, 2003 at: 12:34pm

SUPER ELEVATION CURVE TABLE			
BEGIN TRANSITION	BEGIN FULL SUPER	END FULL SUPER	END TRANSITION
"B" 12+17.41	"B" 13+17.41	"B" 16+32.67	"B" 17+32.67
℄ EL.= 98.75'	℄ EL.= 97.65'	℄ EL.= 94.80'	℄ EL.= 94.43'

STA. "B" 10+00
BEGIN HAUGEN DRIVE REALIGNMENT
SAWCUT & MTE
EL.=105.0'±
FIELD VERIFY
HAUGEN DRIVE
S 72°04'04" W
317.41'
STA. "B" 12+71.6 19.7' LT. FIELD LOCATE EXIST. 12" DIP, CTE 12" DIP, INSTALL 12" G.V. SEE CONECTION DETAIL SHEET A11
STA. "B" 13+58.2 21.1' LT.
22 ½° BEND
CURVE DATA
Δ = 90°18'51"
R = 200.00'
T = 201.10'
L = 315.26'
CL = 283.62'
CH = N 62°46'30" W
STA. "B" 14+40.9 19.6' LT.
22 ½° BEND
OBLITERATE EXIST. ROAD PRISM TO EL.=±97.50' FOR TRANSIENT VEHICLE PARKING AREA. FIELD VERIFY
OBLITERATE EXIST. ROAD PRISM AND REVEGETATE WITH ORGANIC MAT.
NEW WATER SERVICE TO LAB LEASE LOT.
EDGE OF EXIST. PARKING LOT
STA 11+30.9 41.5' RT. MTE
STA 11+55.9 41.5' RT. MTE
℄ GRAVEL DRIVE
R=12.5' (TYP.)
TRANSIENT VEHICLE PARKING
TRAILER
MATCHLINE "B" 15+00
SEE SHEET A8
PLAN
GRAPHIC SCALE
0' 10' 20' 40' 80'
CONTOUR INTEVAL = 1'



105'
100'
95'
90'
STA. "B" 10+00 BEGIN ROAD REALIGNMENT EL=105.0'± FIELD VERIFY
STA 10+13 CONNECT TO EXIST. WATERLINE INSTALL 14" BUTTERFLY VALVE
S= -1.8%
S= -2.95%
S= -.89%
S= -1.11%
VPI STA. "B" 12+00 EL.=99.0 NVC
VPI STA. "B" 14+50 EL.= 95.48 NVC
APPROX. ORIGINAL GROUND
℄ HAUGEN DRIVE
EXIST. 12" DIP WATER
STA. "B" 12+71.6 CONNECT TO EXIST. WATER LINE INSTALL 12" G.V.
14" 12" DIP WATER
MATCHLINE "B" 15+00
SEE SHEET A8
STA. "B" 10+00
STA. "B" 11+00
STA. "B" 12+00
STA. "B" 13+00
STA. "B" 14+00
STA. "B" 15+00

PROFILE
SCALE: 1"=20' HORIZ. (FULL SIZE)
SCALE: 1"=5' VERT. (FULL SIZE)

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. BERGATO 2/1/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS – USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER

F:\DOT CO\PLAN SHEETS.DWG PLOT: September 22, 2003 at 12:48pm

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

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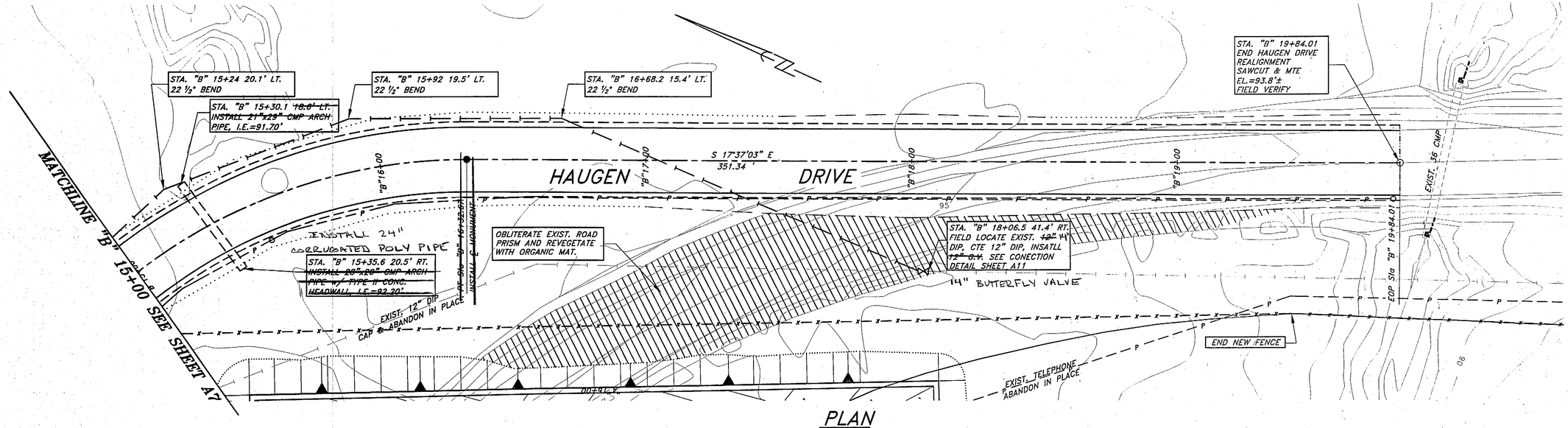
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

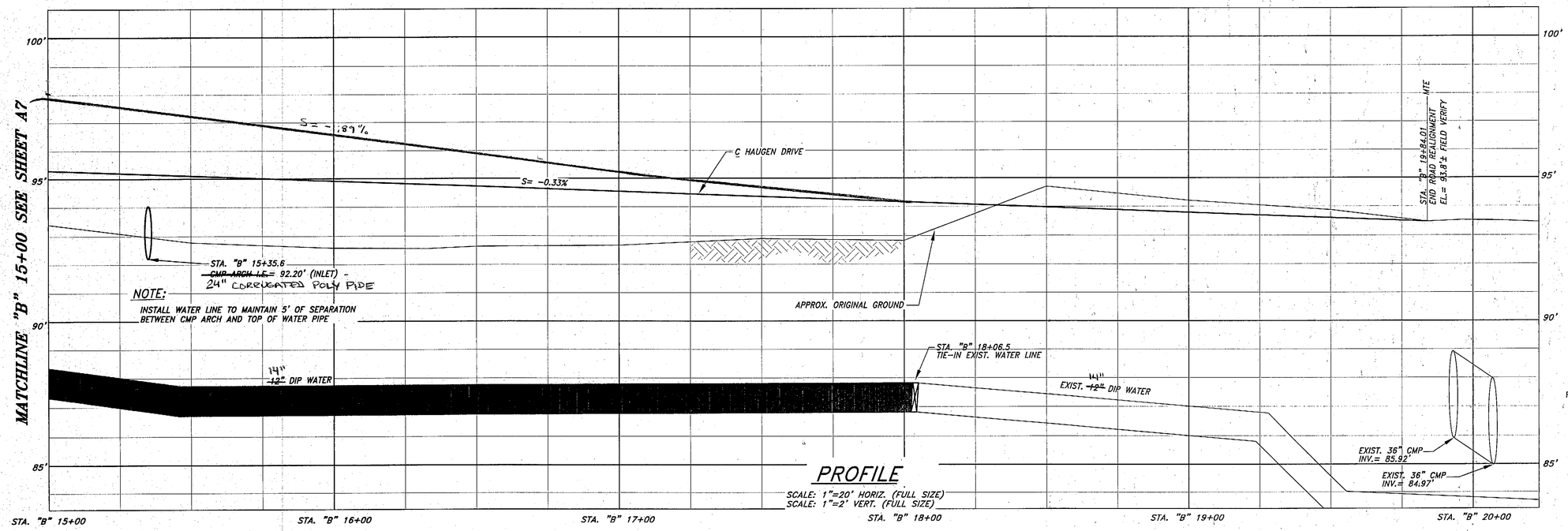
PETERSBURG — ALASKA

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
PLAN & PROFILE STA. "B" 10+00 TO STA. "B" 15+00

DESIGNED BY:	CRC
DRAWN BY:	CRC
CHECKED BY:	JMP

PROJECT NO. 68283
AIP 03-02-0219-0903
DATE: July, 2003
SHEET 47 OF 28





Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. Bergam Date 7/1/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS – USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA
19TH
REGISTERED PROFESSIONAL ENGINEER
Joseph M. Pusich
CE 8152

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

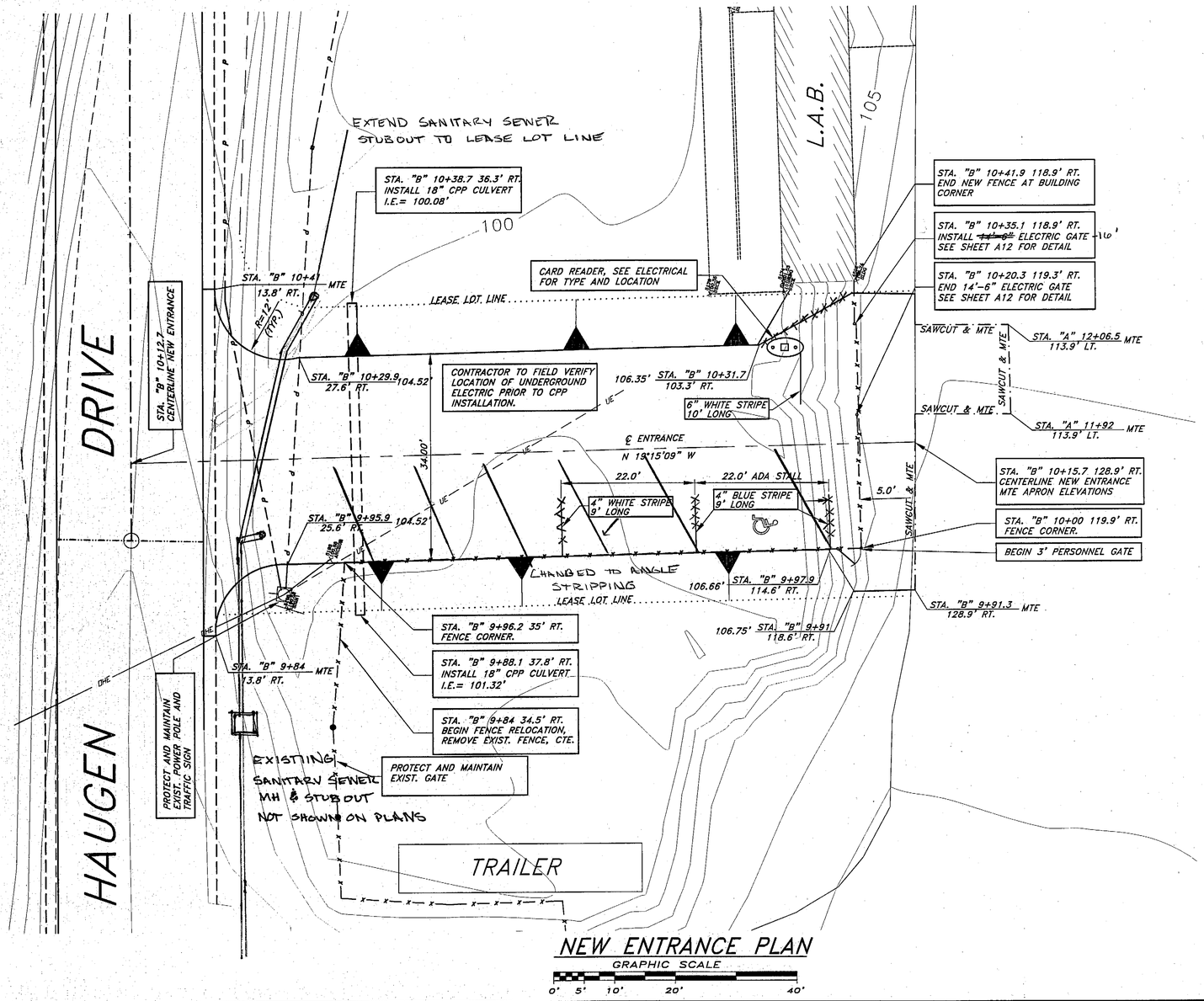
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
PLAN & PROFILE STA. "B" 15+00 TO STA. "B" 19+84.01

DESIGNED BY:	CRC	PROJECT NO. 68283 AIP 03-02-0219-0903	
DRAWN BY:	CRC	DATE: July, 2003	
CHECKED BY:	JMP	SHEET A8 OF 28	

F:\JOB\ 68\PLAN SHEETS.DWG PLOT: September 22, 2003 at: 12:52pm



NEW ENTRANCE PLAN

GRAPHIC SCALE

0' 5' 10' 20' 40'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PETTIBERGAW Date 7/1/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS – USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

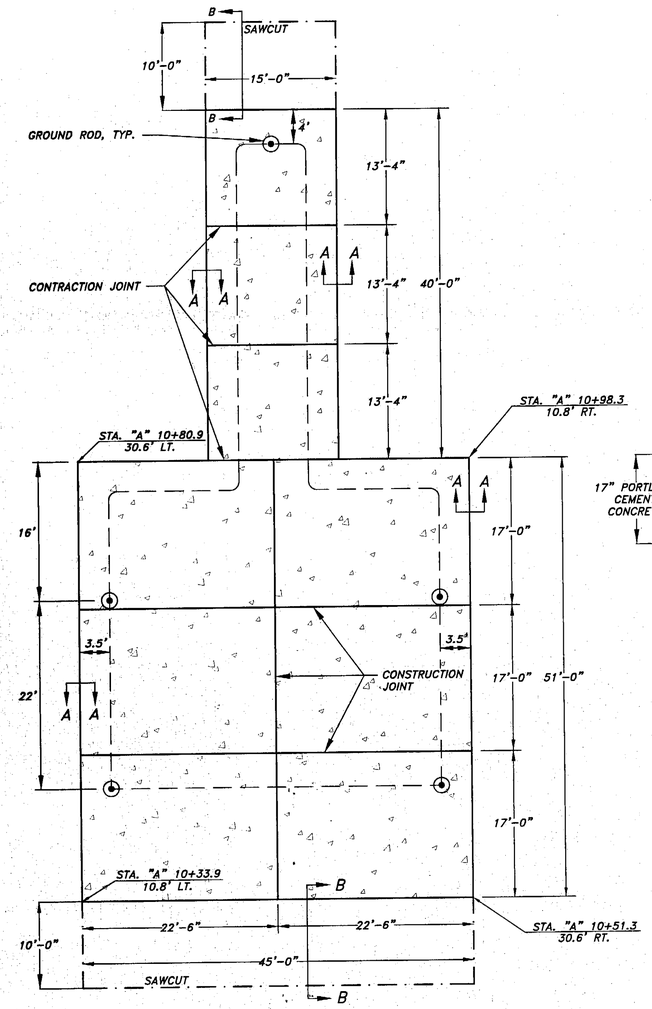
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
NEW ENTRANCE PLAN

DESIGNED BY:	CRC	PROJECT NO.	68283 AIP 03-02-0219-0903
DRAWN BY:	CRC	DATE:	July, 2003
CHECKED BY:	JMP	SHEET	49 OF 28

PLOT DATE: September 22, 2003 at 12:57pm
PLOT BY: PLAN SHEETLOWE



CONCRETE HARDSTAND PLAN VIEW

N.T.S.

NOTES:

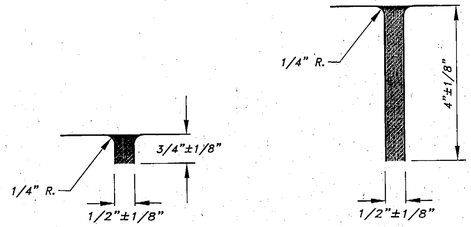
1.) AFTER ALL FORMWORK IS REMOVED BACKFILL EXCAVATIONS WITH N.F.S. SUBBASE OR CRUSHED AGGREGATE BASE COURSE TO MATCH EXISTING DEPTHS BELOW CONCRETE AND ASPHALT. ALL SUBBASE AND CRUSHED AGGREGATE BASE COURSE MATERIAL TO BE COMPACTED TO 100% OF MAXIMUM DENSITY.

2.) PRIOR TO PLACING ASPHALT OR ASPHALT PATCHING, SAW CUT EXISTING ASPHALT PAVEMENT A MINIMUM OF 12" ONTO UN-DISTURBED BASE COURSE. SAW CUTTING IS NOT MEASURED FOR PAYMENT AND IS INCIDENTAL TO THE PAY ITEMS IN THE CONTRACT.

3.) ANY EXCAVATION FOR FORMS, REMOVAL OF EXISTING PAVEMENT OR CONCRETE OR IMPORTING SUBBASE OR CRUSHED AGGREGATE BASE COURSE IS INCIDENTAL TO THE ITEMS LISTED IN THE CONTRACT DOCUMENTS AND ARE NOT MEASURED FOR PAYMENT.

4.) NO. 632-6SS SERIES FLOOR GROUND RECEPTACLE WITH NO. 632GS-1 BRASS BALL TYPE GROUND STUD, MANUFACTURED BY THOMPSON LIGHTNING PROTECTION, INC., 901 SIBLYE HIGHWAY, SAINT PAUL, MINNESOTA 55118 PHONE 612-455-7661, OR CROUSE-HINDS GCR210 WITH GCT BRONZE STUD STUD BY COOPER INDUSTRIES, INC., OR APPROVED EQUAL. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING. DEVICE MUST BE FAA APPROVED.

5.) SEE THIS SHEET FOR CONCRETE HARDSTAND LAYOUT CONTROL POINTS. FINAL ORIENTATION OF CONCRETE HARDSTAND TO BE FIELD DETERMINED BY ADOT/PF.

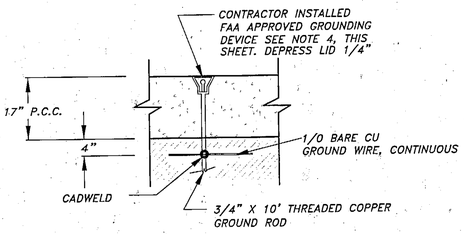


DETAIL 1

DETAIL 2

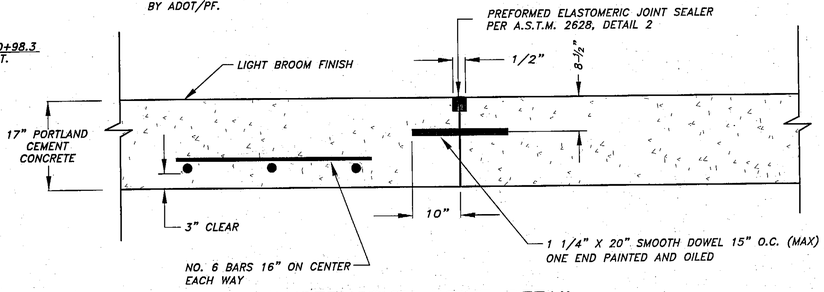
JOINT SEALANT DETAILS

N.T.S.



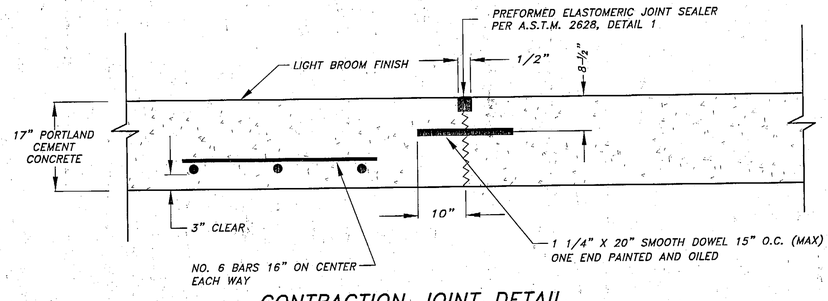
STATIC GROUND DETAIL

N.T.S.



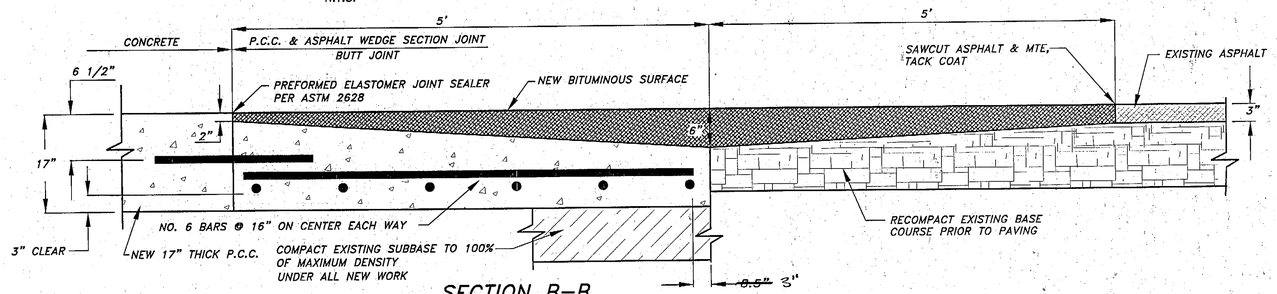
CONSTRUCTION JOINT DETAIL

N.T.S.



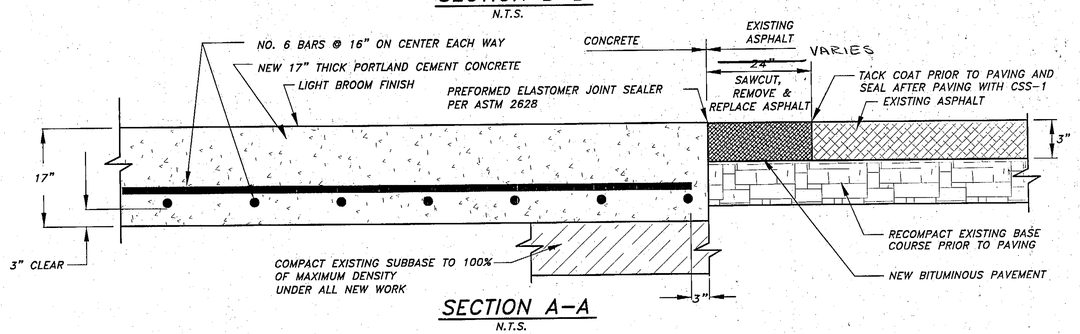
CONTRACTION JOINT DETAIL

N.T.S.



SECTION B-B

N.T.S.



SECTION A-A

N.T.S.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. BERGAM Date 2/1/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

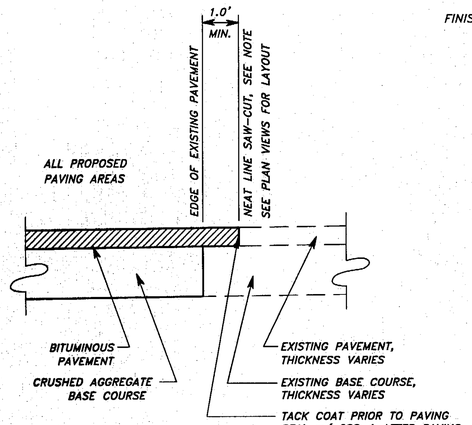
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG — ALASKA

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
CONCRETE HARDSTAND

DESIGNED BY:	CRC	PROJECT NO. 68283 AIP 03-02-0219-0903	
DRAWN BY:	CRC	DATE:	July, 2003
CHECKED BY:	JMP	SHEET A10 OF 28	

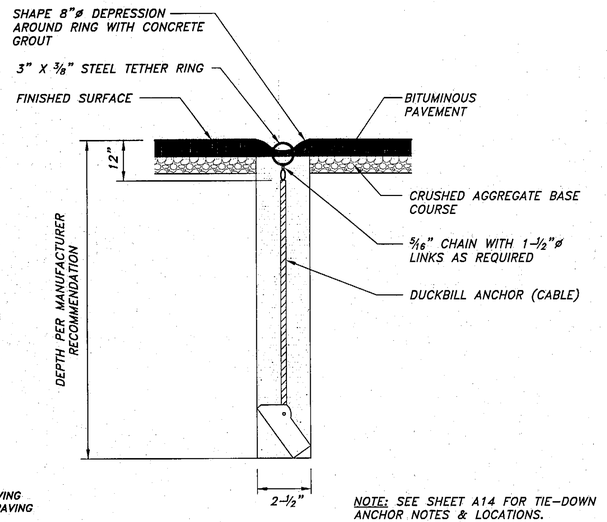
F:\DOT CD\HARDSTAND DETAILS.DWG PLOT: September 22, 2003 at 11:28am



NOTE: SAWCUT IN EXISTING PAVEMENT SHALL NOT BE MADE UNTIL 24 HOURS PRIOR TO FINAL PAVING

PAVEMENT MATCH JOINT DETAIL ✓

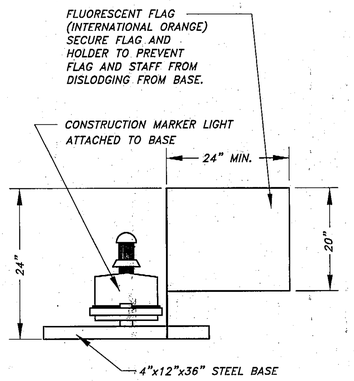
N.T.S.



NOTE: SEE SHEET A14 FOR TIE-DOWN ANCHOR NOTES & LOCATIONS.

TIE-DOWN ANCHOR DETAIL ✓

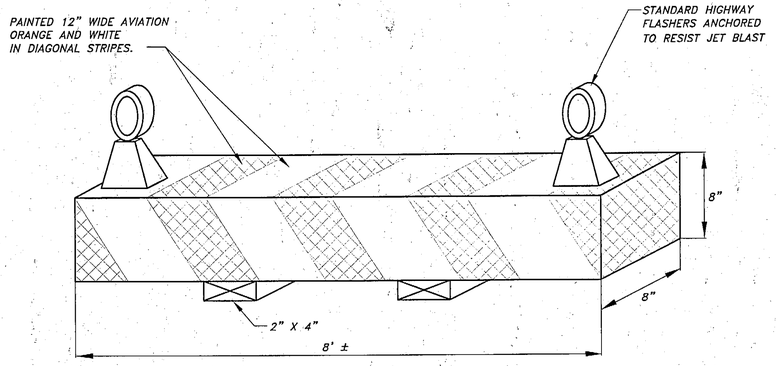
N.T.S.



CONTRACTOR FURNISHED TO MARK EDGE OF CONES AND/OR BARRICADES USED BY CONTRACTOR TO DELINEATE THE APPROVED WORK ZONE. LIGHTS SPACED AT 10' INTERVALS.

BARRICADE MARKER ✓

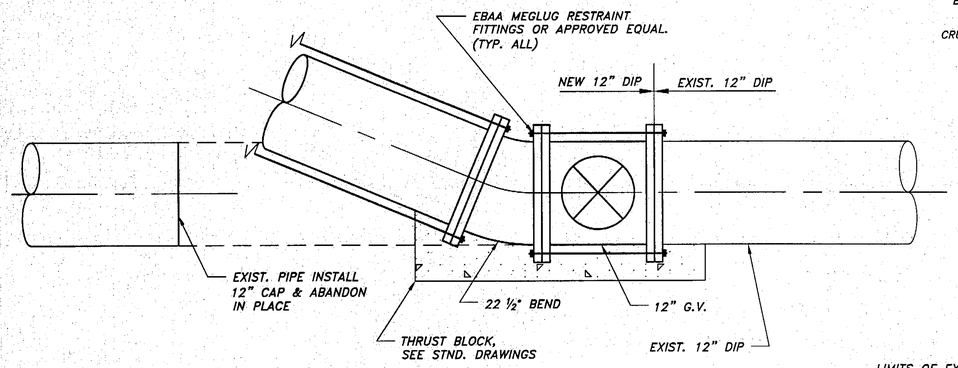
N.T.S.



NOTES:
1) BASE MAY BE MADE FROM WOOD OR SIMILAR MATERIAL AND MUST BE ANCHORED TO RESIST JET BLAST.
2) SEE "SAFETY PLAN", FOR BARRIER LOCATIONS.

TYPICAL LOW STYLE BARRICADE ✓

N.T.S.



NOTES:

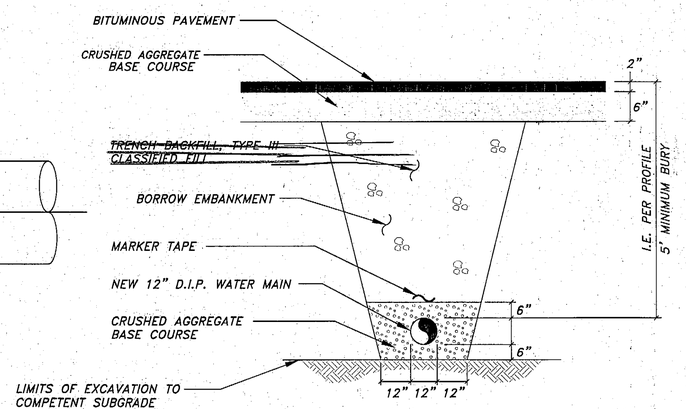
1) STA. "B" 12+71.6 19.7' LT. VALVE BOX SET 6" ABOVE FINISHED SURFACE.

2) STA. "B" 18+06.5 41.4' RT. VALVE BOX SET 6" ABOVE MUSKEG.

3) STA. "B" 12+71.6 19.7' LT. TIE-IN IS SIMILAR CONDITION, MIRRORED IMAGE OF THIS DETAIL

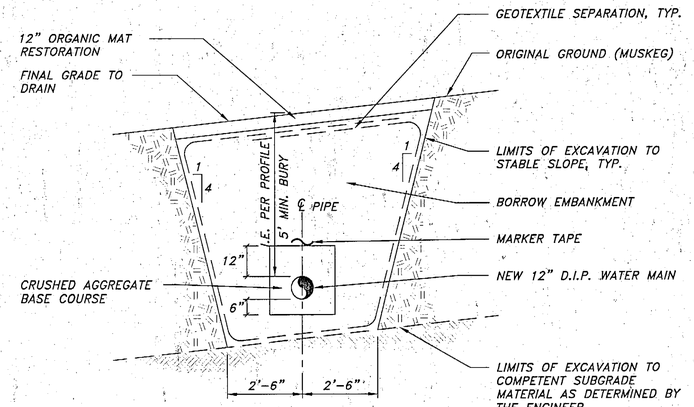
TYPICAL 12" D.I.P. WATER TIE-IN DETAIL ✓

N.T.S.



WATER LINE TRENCH SECTION - HAUGEN DRIVE ✓

N.T.S.



WATER LINE TRENCH IN MUSKEG CONDITIONS ✓

N.T.S.

WATER LINE NOTES:

1. TRENCH BOX, SHIELD OR SHORING METHODS SHALL BE UTILIZED AS REQUIRED TO AVOID DISTURBING EXISTING PAVEMENT & HIGHWAY STRUCTURAL FILL SECTION.
2. FIELD LOCATE ALL EXISTING WATER UTILITIES PRIOR TO EXCAVATION. ENGINEER MAY DIRECT MINOR CHANGES IN WATER LINE ALIGNMENT TO AVOID EXISTING UTILITIES AT NO ADDITIONAL COST TO OWNER.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE TIBERIAN Date 7/1/05

PLANS DEVELOPED BY: R&M ENGINEERING, INC.

NOTE: DO NOT SCALE FROM THESE PLANS – USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG — ALASKA

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
CONSTRUCTION DETAILS

DESIGNED BY:	CRC	PROJECT NO. 68283 AIP 03-02-0219-0903	
DRAWN BY:	CRC	DATE:	July, 2003
CHECKED BY:	JMP	SHEET A11 OF 28	

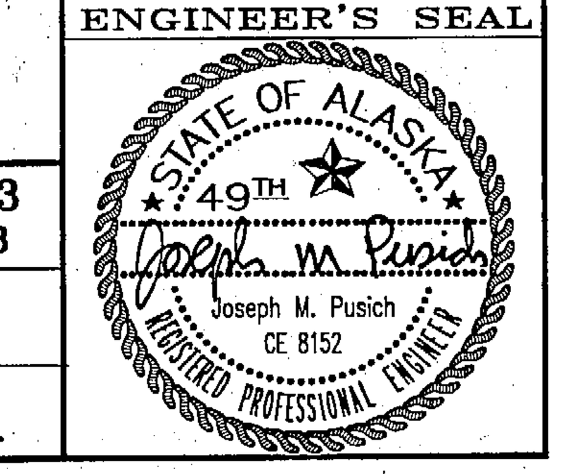
F:\LOT C2\CONSTRUCTION DETAILS.DWG PLOT: September 22, 2003 at: 11:21am

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. BERGMAN Date 2/1/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS – USE DIMENSIONS

ENGINEER'S SEAL



PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

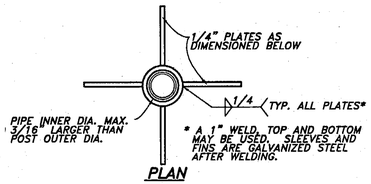
PETERSBURG ALASKA

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
ELECTRIC GATE PLAN

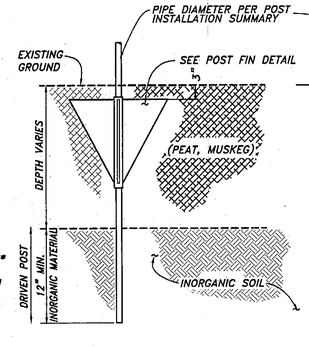
DESIGNED BY:	CRC
DRAWN BY:	CRC
CHECKED BY:	JMP

PROJECT NO. 68283
AIP 03-02-0219-0903
DATE: July, 2003
SHEET A12 OF 28

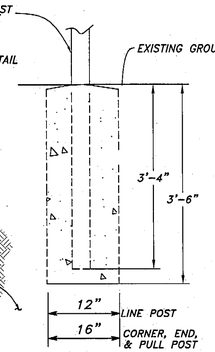
F:\DOT CO\FENCE-GATE.DWG PLOT: September 22, 2003 at 11:28am



PLAN

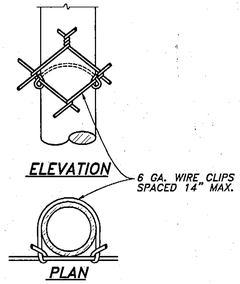


PEAT/MUSKEG INSTALLATION ✓

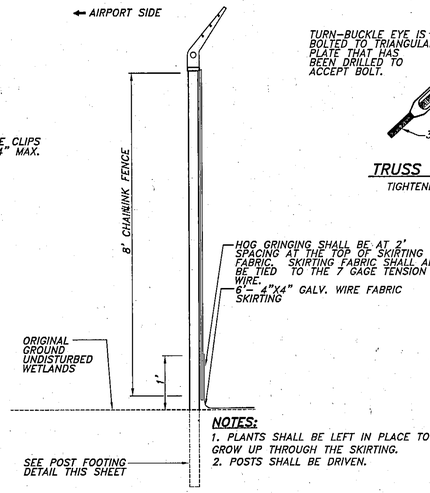


NON-ORGANIC INSTALLATION ✓

USE IF ORGANIC DEPTH IS LESS THAN 2"



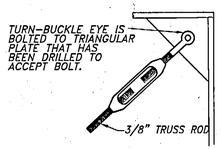
TYPICAL METHOD OF TYING FABRIC TO LINE POSTS



CHAIN LINK SKIRT DETAIL

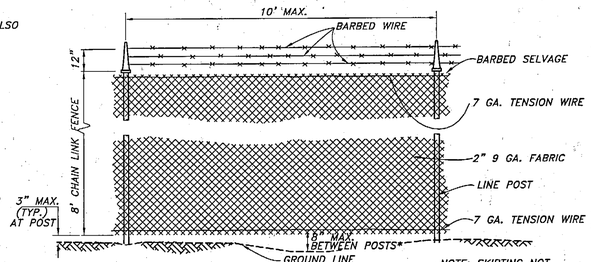
PEAT/MUSKEG AREAS ONLY

N.T.S.



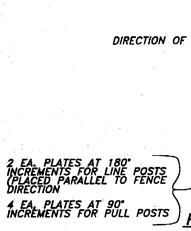
TRUSS ROD END

TIGHTENER DETAIL



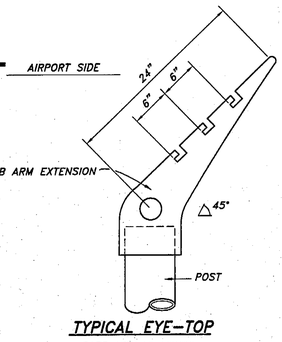
TYPICAL FENCE ELEVATION

N.T.S.



POST FIN DETAIL

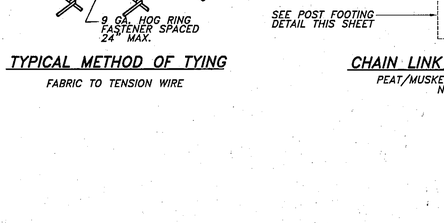
N.T.S.



TYPICAL EYE-TOP

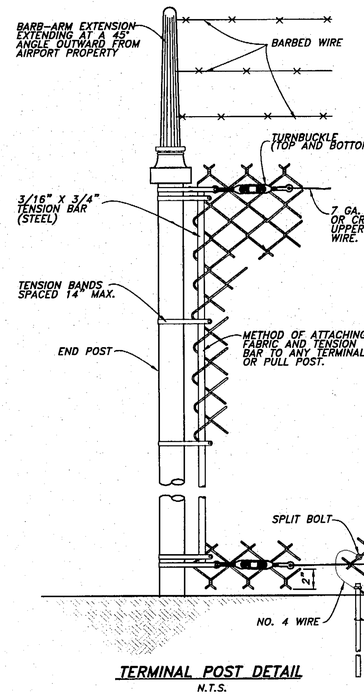
BARB-TOP EXTENSION

NOTE: TYPICAL TOP FOR ALL LINE AND PULL POSTS.



TYPICAL METHOD OF TYING

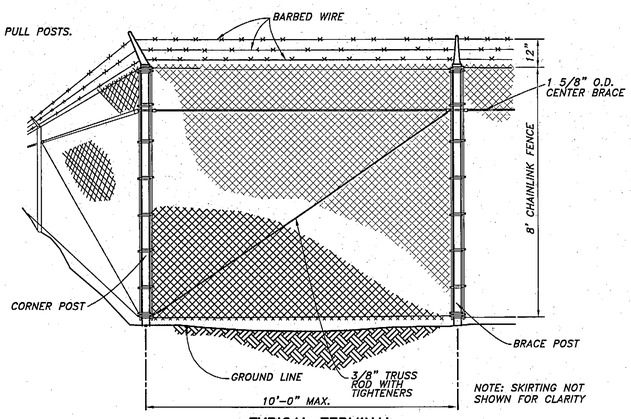
FABRIC TO TENSION WIRE



TERMINAL POST DETAIL

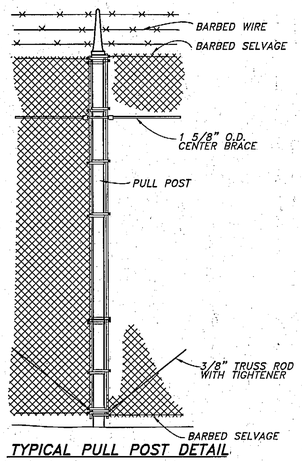
N.T.S.

NOTE: SKIRTING NOT SHOWN FOR CLARITY



TYPICAL TERMINAL

N.T.S.



TYPICAL PULL POST DETAIL

N.T.S.

FENCING NOTES:

1. NOT ALL OF CHAINLINK FENCE AND MISC. FENCING HARDWARE IS SHOWN IN THIS DETAIL. REFER TO DOT/PF STANDARD DETAILS NO. F-01.01 FOR FURTHER DETAIL.
2. ANY EQUIPMENT THAT TRAVERSES THE PEAT/MUSKEG AREA FOR FENCE INSTALLATION MUST BE SMALL, TRACKED AND LOW GROUND PRESSURE (SUCH AS NODWELL OR BOMBADIER).
3. SEE DETAILS THIS SHEET FOR SPECIAL DETAILS ON FENCE FOOTINGS IN THE PEAT/MUSKEG AREAS.
4. NO EXCAVATION AND NO GRUBBING IS ALLOWED FOR SKIRT INSTALLATION. WOODY VEGITATION SHALL BE CUT AT GROUND LEVEL. NON-WOODY PLANTS SHALL BE LEFT IN PLACE TO GROW UP THROUGH THE SKIRTING.
5. REFER TO GEOTECHNICAL PROBE FOR RESULTS PREPARED BY ADOT/PF FOR INFORMATION ON ORGANIC SOIL DEPTH ALONG THE FENCE LINE.
6. LINEPOST 2" DIA., END, CORNER & PULL POST 2-1/2" DIA.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE [illegible] Date 2/1/05

PLANS DEVELOPED BY: R&M ENGINEERING, INC.

NOTE: DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER

PATH:

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
FENCE DETAILS

DESIGNED BY:	CRC	PROJECT NO. 68283 AIP 03-02-0219-0903	
DRAWN BY:	CRC	DATE:	July, 2003
CHECKED BY:	JMP	SHEET A13 OF 28	

F:\DOT C01\FENCE\FLWG PLOT: September 22, 2003 at: 11:26am

TIE-DOWN ANCHOR NOTES:

1) IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE TYPE OF MATERIAL IN THE TIE-DOWNS.

2) DEPTH OF ANCHORS SHALL BE AS REQUIRED TO DEVELOP 5000 LBS. OF PULL OUT STRENGTH PER ANCHOR.

3) ALL STEEL RINGS SHALL BE ASTM A-36, 40,000 P.S.I. MINIMUM YIELD STRENGTH.

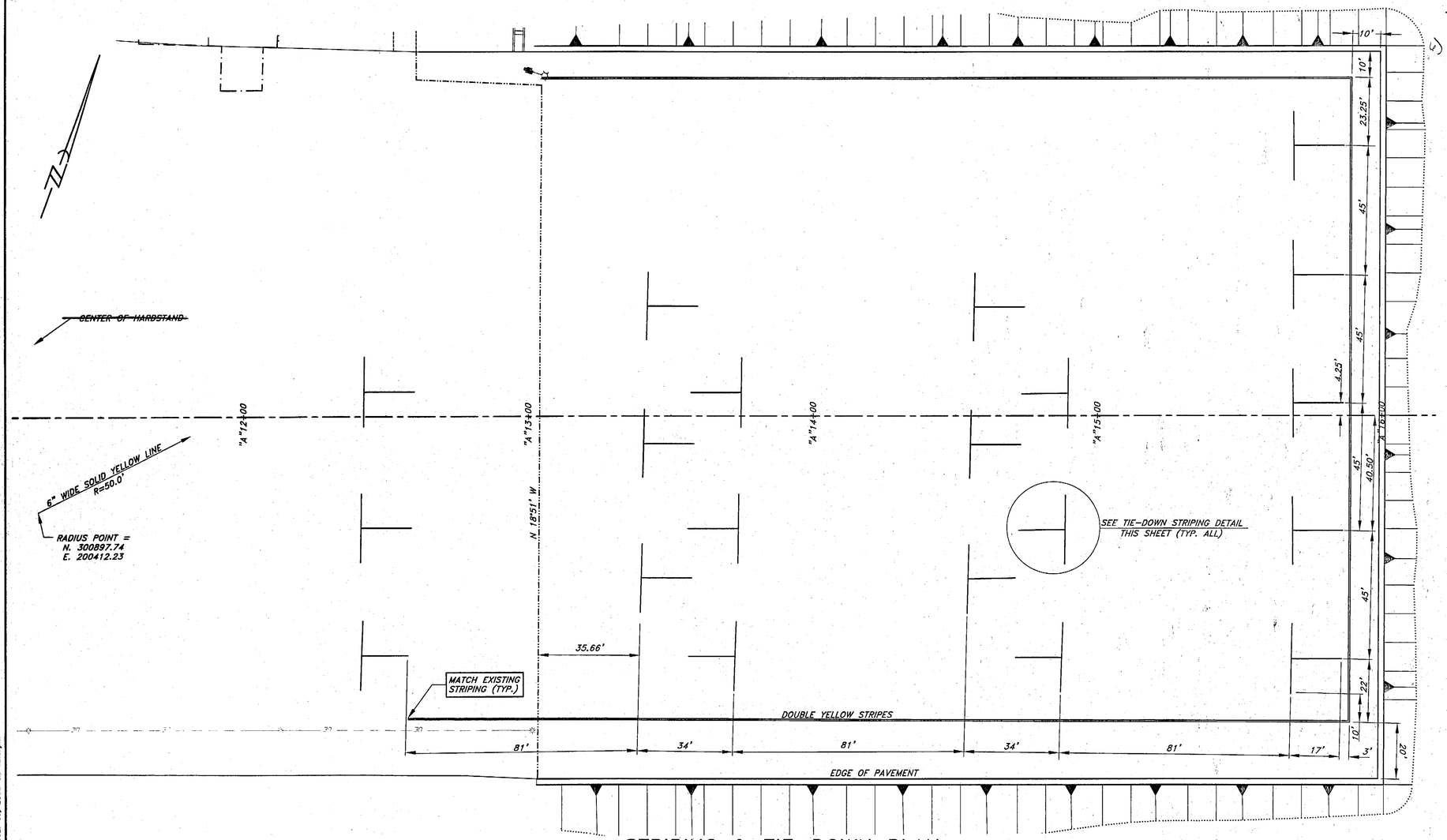
4) EXISTING TIE-DOWN ANCHORS NOT BEING USED IN CURRENT PLAN SHALL HAVE THE RING AND CHAINS REMOVED AND BE PAVED OVER.

5) CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING TIE-DOWN ANCHOR RINGS AND CHAINS. SEE SECTION 650 OF THE SPECIAL PROVISIONS FOR FURTHER DESCRIPTION.

STRIPING NOTES:

SEE OTHER PLAN SHEETS FOR ROADWAY, PARKING AND HARDSTAND MARKINGS.

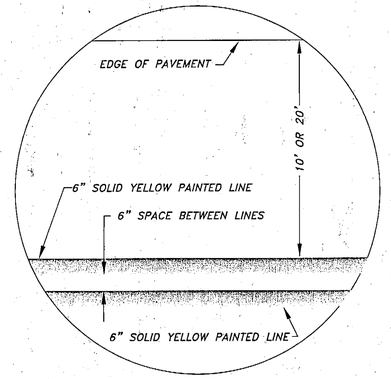
6) CHANGE ORDER #3 - ESTABLISHES ITEM P-620d- TIEDOWN STRIPING REMOVAL



STRIPING & TIE-DOWN PLAN

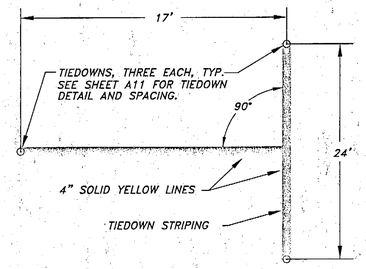
GRAPHIC SCALE

0' 10' 20' 40' 80'



APRON EDGE STRIPING DETAIL

N.T.S.



TIE-DOWN STRIPING DETAIL

N.T.S.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Jeremy Date 2/1/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

PATH:

BY:	DATE:	DESCRIPTION OF CHANGE:

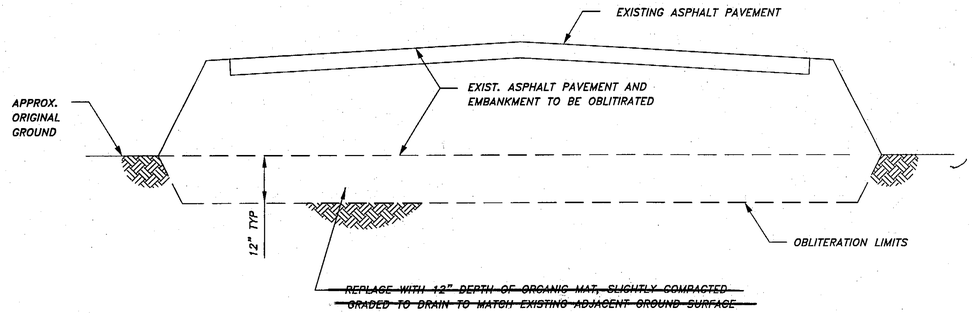
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*
PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
STRIPING & TIE-DOWN PLAN

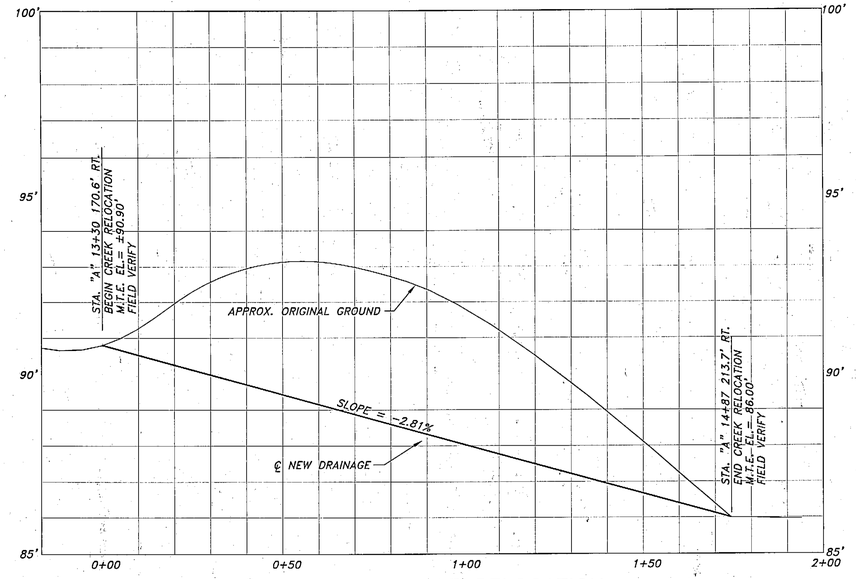
DESIGNED BY: CRC	PROJECT NO. 68283 AIP 03-02-0219-0903
DRAWN BY: CRC	DATE: July, 2003
CHECKED BY: JMP	SHEET A14 OF 28

E:\2003\031301.01\PLAN SHEETS.dwg PLOT: JULY 03, 2003 @: 12:57pm



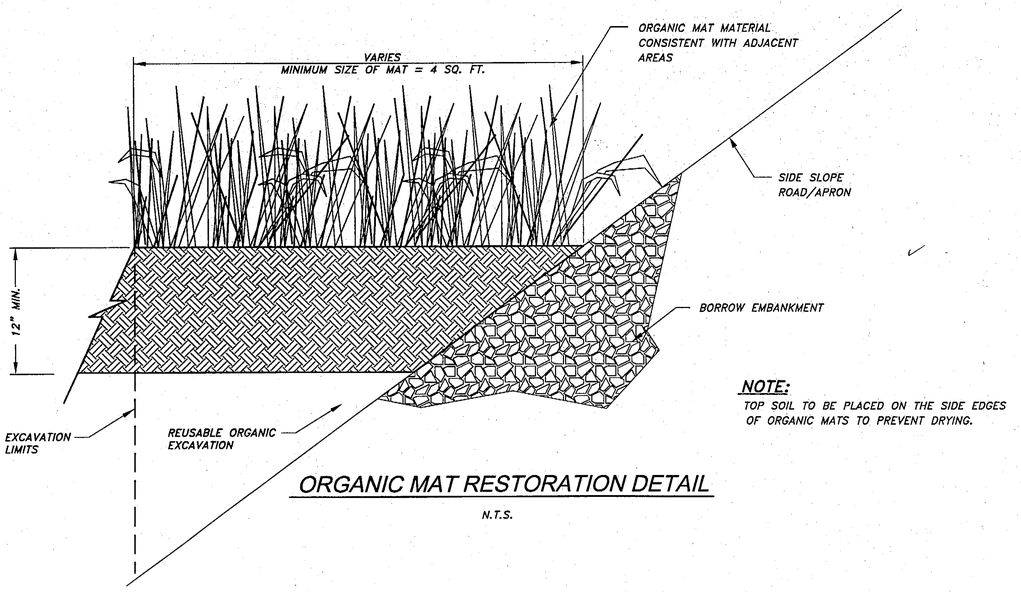
ROAD OBLITERATION DETAIL

N.T.S.



PROFILE DRAINAGE RELOCATION

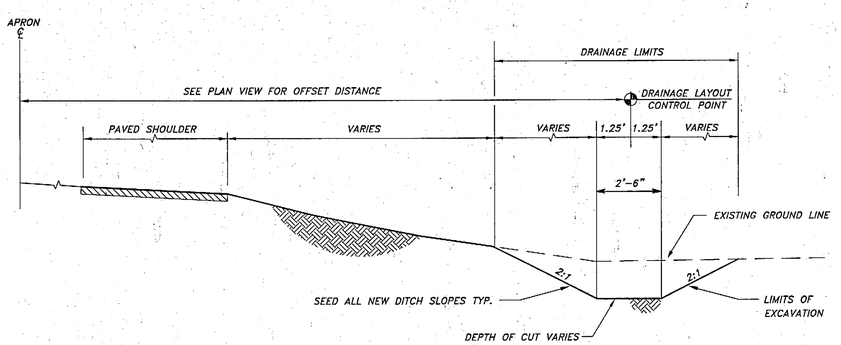
SCALE: 1"= 20' HORIZ. (FULL SIZE)
1"= 5' VERT. (FULL SIZE)



NOTE:
TOP SOIL TO BE PLACED ON THE SIDE EDGES OF ORGANIC MATS TO PREVENT DRYING.

ORGANIC MAT RESTORATION DETAIL

N.T.S.



RELOCATED DRAINAGE DETAIL

N.T.S.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T BERGAN Date 2/1/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
DRAINAGE PROFILE & DETAILS

DESIGNED BY:	CRC	PROJECT NO. 68283 AIP 03-02-0219-0903	
DRAWN BY:	CRC	DATE:	July, 2003
CHECKED BY:	JMP	SHEET	A15 OF 28

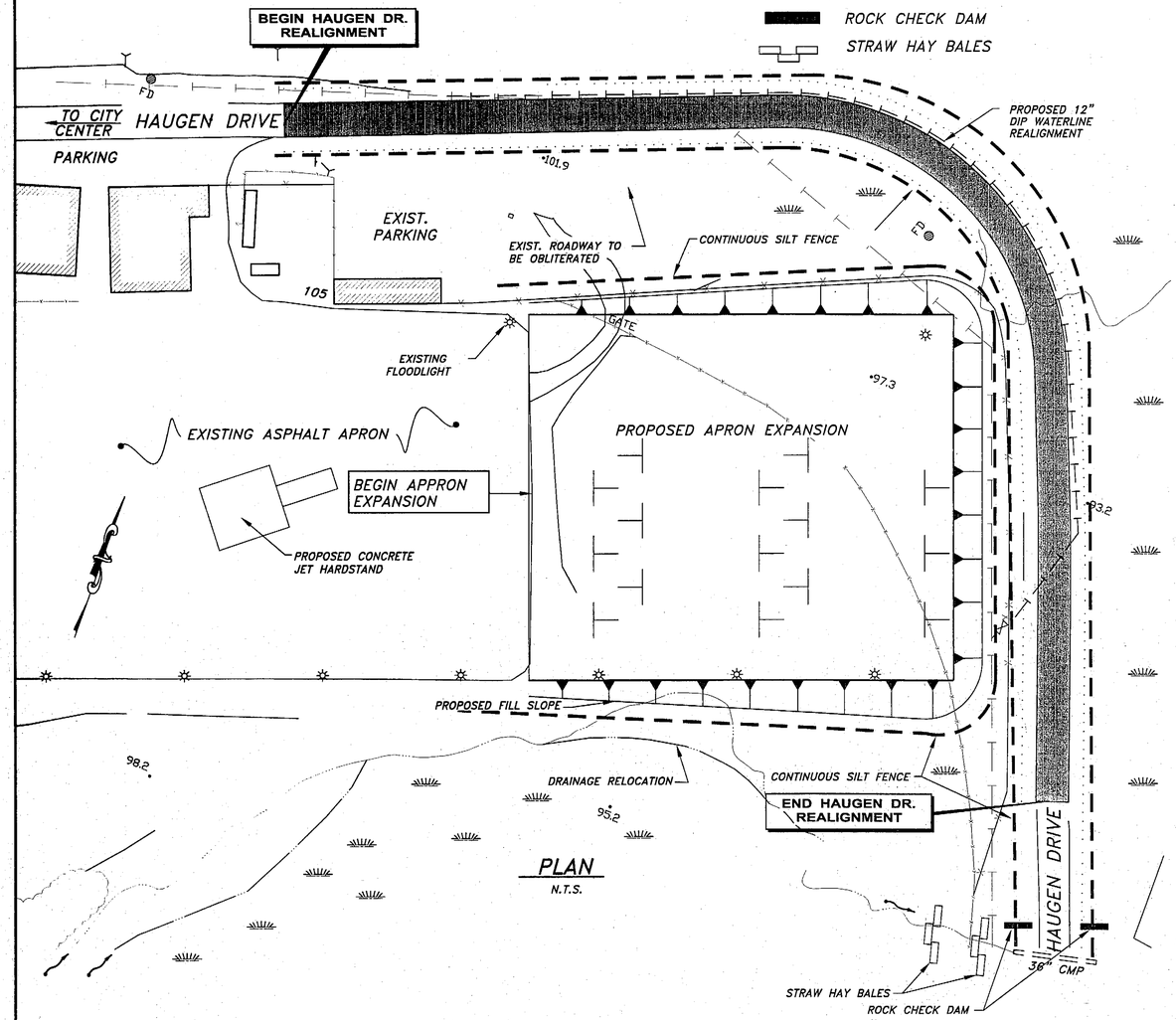
F:\DOT GD\SIGN DETAILS.DWG PLOT: September 22, 2003 at: 1:12pm

SYMBOLS

CONTINUOUS SILT FENCE

ROCK CHECK DAM

STRAW HAY BALES



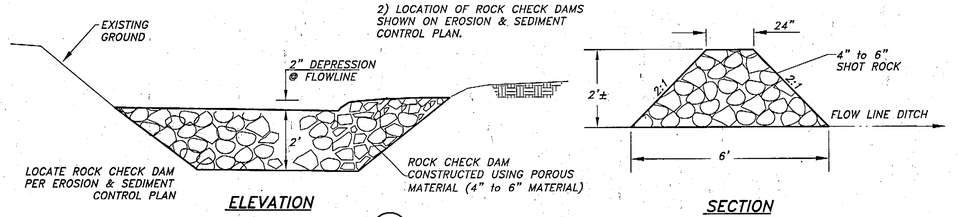
PLAN

N.T.S.

NOTES:

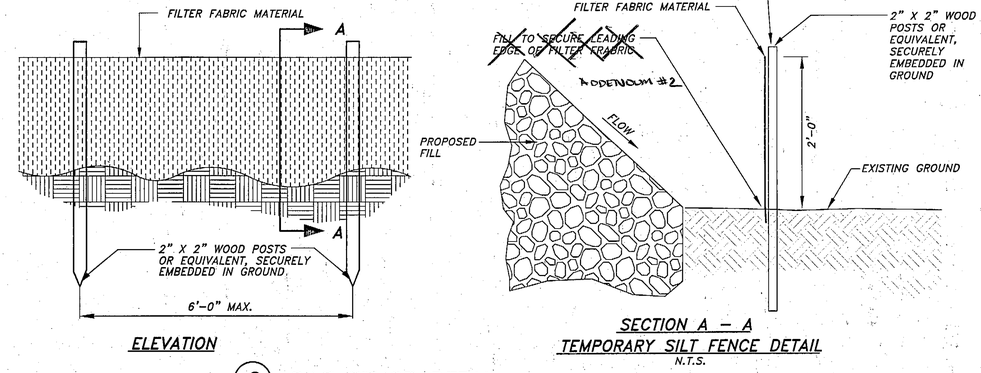
1) INSTALL EROSION AND SEDIMENT CONTROL DEVICES BEFORE EARTH DISTURBING ACTIVITIES.
2) MAINTAIN AND MONITOR DEVICES DAILY. EXCAVATE CHECK DAMS WHEN 4" OR MORE SEDIMENT ACCUMULATE. ENSURE SILT FENCE IS TIGHT TO THE GROUND.
3) IF INSPECTION REVEALS WATER IS DISCHARGING BEYOND THE PROJECT WORK LIMITS, IMMEDIATELY IMPLEMENT CORRECTIVE ACTION. ADDITIONAL SILT FENCING OR CHECK DAMS MAY BE REQUIRED. TEMPORARY SEEDING AND MATTING MAY ALSO BE REQUIRED.
4) STABILIZE DISTURBED GROUND AS SOON AS POSSIBLE. UNSTABLE SURFACES MUST BE TEMPORARILY STABILIZED WITH SEEDING, MATTING, OR OTHER EFFECTIVE MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND SEDIMENT CONTROL UNTIL PROJECT WORK AREAS ARE PAVED AND SEEDED AREAS HAVE ACHIEVED 70% VEGETATIVE COVER.
5) IF DEWATERING IS NECESSARY, DISCHARGE LOCATION SHOULD BE WITHIN THE PROJECT AREA BOUNDED BY SILT FENCE.
6) THE CONTRACTOR IS REQUIRED TO PRESENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FIVE DAYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE. THE CONTRACTOR'S SWPPP SHALL INCLUDE, AT THE MINIMUM, HIS PROPOSED LOCATIONS FOR TEMPORARY CHECK DAMS, SILT FENCE, AND ANY OTHER BEST MANAGEMENT PRACTICES THAT ARE APPROPRIATE. A MANUAL ENTITLED "ALASKA STORM WATER POLLUTION PREVENTION PLAN GUIDE" AND DATED OCTOBER 2001 IS AVAILABLE FROM PUBLICATIONS CLERK, ROOM 115, STATEWIDE DESIGN AND ENGINEERING SERVICES, ADOT&PF 3132 CHANNEL DRIVE, JUNEAU, AK 99801 (PHONE: 907-465-2985) FOR A COST OF $10 OR IT IS AVAILABLE ON THE INTERNET AT www.dot.state.ak.us/stwddes/dcs/pubs.html
7) THIS PROJECT IS LOCATED NEAR THE PETERSBURG AIRPORT IN A MILD MARITIME CLIMATOLOGICAL AREA. AVERAGE SUMMER TEMPERATURE RANGES FROM 40-56 DEGREES WITH AN EXTREME HIGH BEING 83 DEGREES. AVERAGE WINTER TEMPERATURES RANGE FROM 25 TO 50 DEGREES WITH AN EXTREME LOW BEING -15 DEGREES. AVERAGE RAINFALL IS 110 INCHES. AVERAGE SNOWFALL IS 65 INCHES.
8) THE TOTAL AREA OF LAND TO BE DISTURBED IS ESTIMATED AT ~~3.7~~ 4.0 ACRES.
9) CONTRACTOR SHALL KEEP CLEAN AND DISPOSE OF ALL EARTHEN MATERIAL TRACKED ONTO EXISTING ASPHALT ACCESS ROAD TO PETERSBURG AIRPORT AND HAUGEN DRIVE. DAILY FLUSHING OF STREETS WITH WATER AND/OR SWEEPING OF THESE STREETS CLEAN OF TRACKED MATERIAL MAY BE REQUIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
10) PROJECT LIMITS OF AUTHORIZED FILL IN WETLANDS SHALL BE CLEARLY IDENTIFIED (STAKED AND FLAGGED) PRIOR TO CLEARING AND CONSTRUCTION TO ENSURE THAT IMPACTS BEYOND PROJECT FOOTPRINTS ARE AVOIDED.
11) NO VEHICLES OR EQUIPMENT SHALL BE FUELED OR SERVICED IN WETLANDS WITHIN OR ADJACENT TO THE PROJECT FOOTPRINT.

NOTES:
1) MAINTENANCE OF ROCK CHECK DAMS SHALL INCLUDE BAILING WHEN 4" OR GREATER OF SEDIMENT.
2) LOCATION OF ROCK CHECK DAMS SHOWN ON EROSION & SEDIMENT CONTROL PLAN.



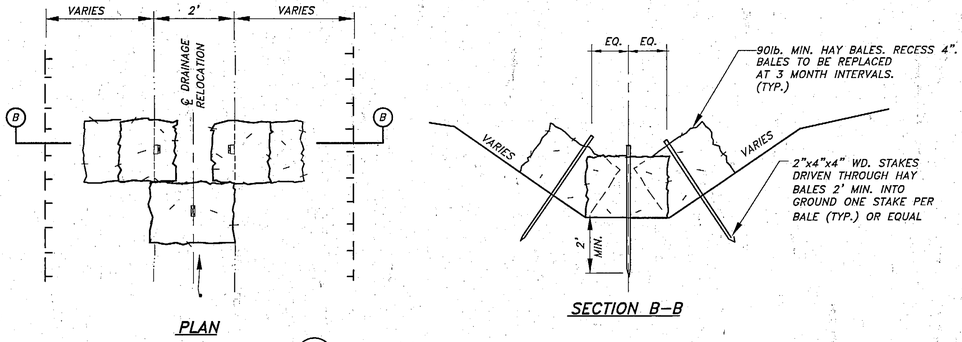
1 CHECK DAM DETAIL

N.T.S.



2 SILT FENCE DETAIL

N.T.S.



3 HAY BALE DETAIL

N.T.S.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. BERGAM Date 7/1/05

PLANS DEVELOPED BY: R&M ENGINEERING, INC.

NOTE: DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA 49TH Joseph M. Pusich Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG ALASKA

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
EROSION AND SEDIMENT CONTROL PLAN

DESIGNED BY:	PROJECT NO. 68283
DRAWN BY:	DATE: July, 2003
CHECKED BY:	SHEET A16 OF 28

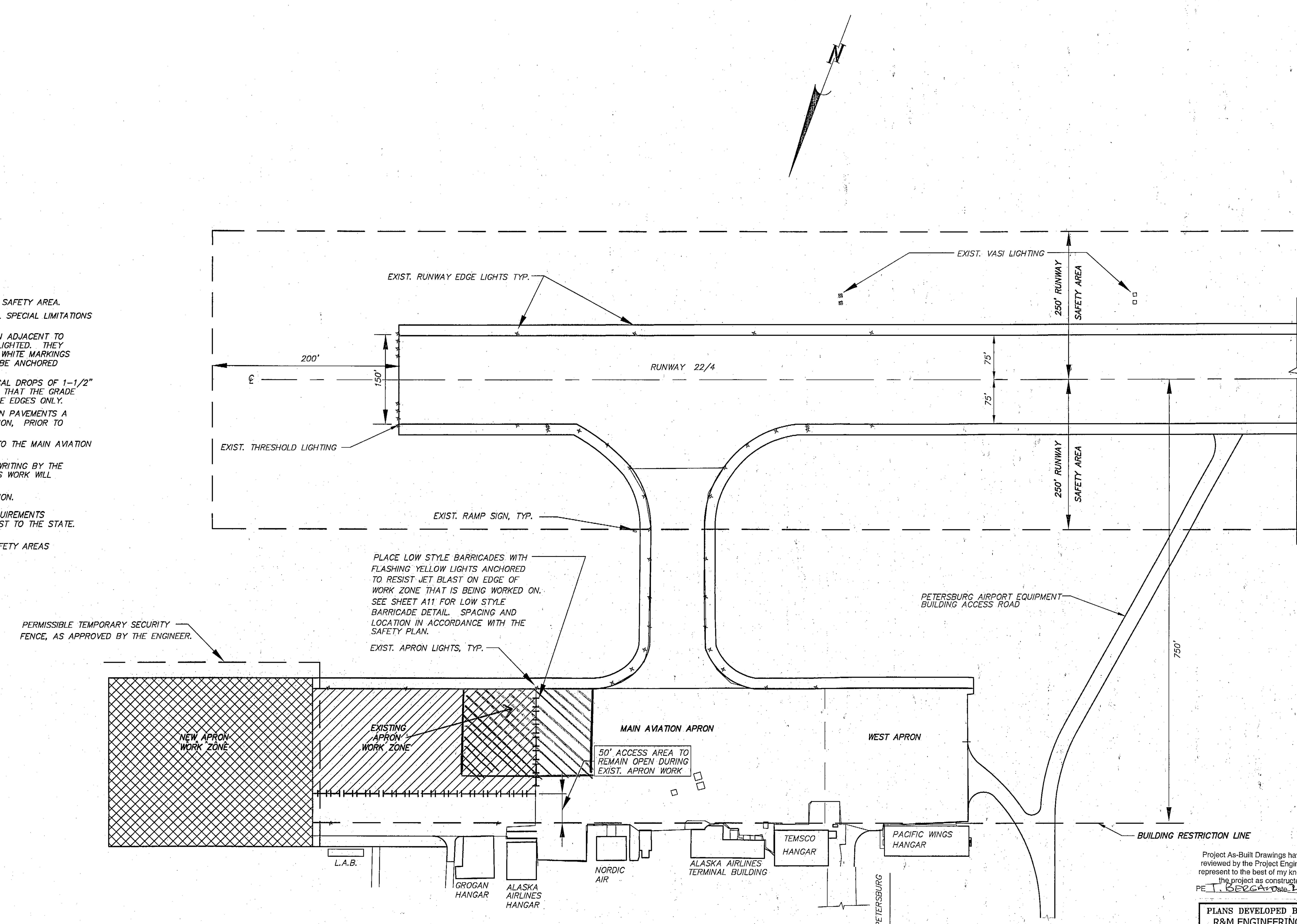
F:\DOT CIV\EROSION CONTROL.DWG PLOT: September 22, 2003 at: 11:25am

SAFETY PLAN NOTES

1. NO WORK (MEN AND EQUIPMENT) SHALL BE ALLOWED WITHIN THE RUNWAY SAFETY AREA.
2. SEE SECTION 70 AND 80 OF THE PROJECT SPECIFICATIONS FOR ADDITIONAL SPECIAL LIMITATIONS AND OPERATIONAL SAFETY CONCERNS.
3. BARRICADES SHALL BE OF THE LOW STYLE (LESS THAN 12") WHEN USED IN ADJACENT TO AN ACTIVE MOVEMENT AREA. THESE BARRICADES NEED TO MARKED AND LIGHTED. THEY CAN BE EITHER WOOD, METAL OR PLASTIC, WITH NORMAL 8" ORANGE AND WHITE MARKINGS ALONG WITH A 20" SQUARE AVIATION ORANGE FLAG. BARRICADES SHALL BE ANCHORED TO RESIST MOVEMENT BY JET BLAST.
4. TEMPORARY PAVEMENT TRANSITION SHALL BE CONSTRUCTED AT ALL VERTICAL DROPS OF 1-1/2" OR GREATER IN THICKNESS. PAVEMENT TRANSITIONS SHALL BE SIZED SUCH THAT THE GRADE OF THE TRANSITION DOES NOT EXCEED 1.5%. THIS APPLIES TO TRANSVERSE EDGES ONLY.
5. AT ALL EXCAVATIONS ADJACENT TO EXISTING RUNWAY, TAXI WAY OR APRON PAVEMENTS A 6:1 RAMP SHALL BE CONSTRUCTED FOR THE FULL WIDTH OF THE EXCAVATION, PRIOR TO THE END OF THE WORK SHIFT.
6. THE CONTRACTOR SHALL NOT INHIBIT JET OR GENERAL AVIATION ACCESS TO THE MAIN AVIATION APRON AT ALL TIMES.
7. 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.
8. EXISTING APRON EDGE LIGHTING SHALL BE MAINTAINED DURING CONSTRUCTION.

10. TEMPORARY FENCE TO CONFORM TO DIMENSIONS, SECURITY & SIGNING REQUIREMENTS AS SHOWN ON PLANS. TEMPORARY FENCE WILL BE AT NO ADDITIONAL COST TO THE STATE.

11. STORAGE OF MATERIALS AND PARKING OF EQUIPMENT ON THE RUNWAY SAFETY AREAS AND MAIN APRON WILL NOT BE ALLOWED.



EAST APRON SAFETY PLAN

N.T.S.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. BERGAT Date 1/1/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

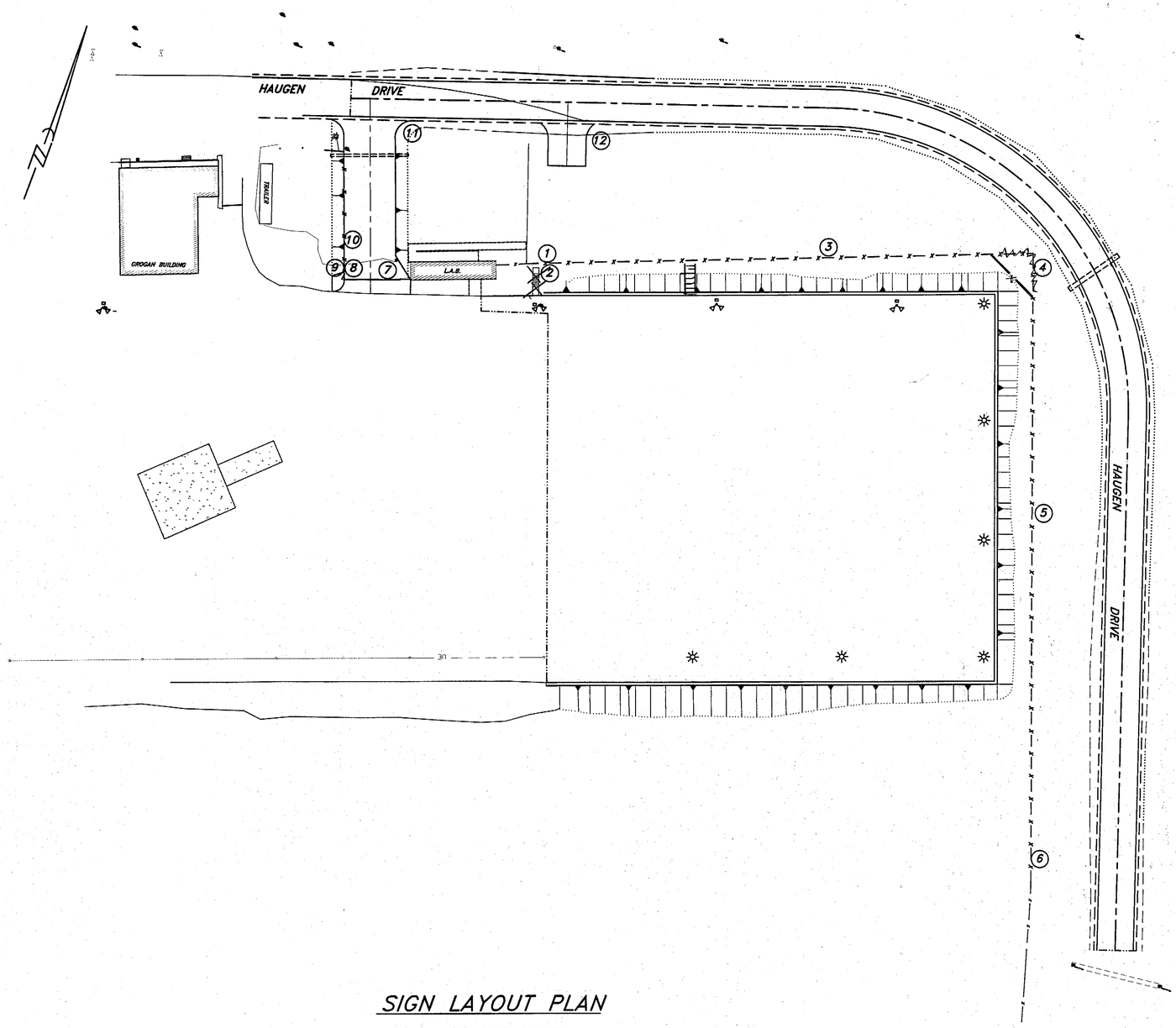
PETERSBURG — ALASKA

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
SAFETY PLAN

DESIGNED BY:	CRC
DRAWN BY:	CRC
CHECKED BY:	JMP

PROJECT NO. 68283
AIP 03-02-0219-0903
DATE: July, 2003
SHEET A17 OF 28

F:\DOT CO\PET-SAFETY PLAN.DWG PLOT: September 22, 2003 at 11:40am



SIGNING SCHEDULE SUMMARY

NUMBER	①	②	③	④	⑤	⑥
STATION	"A"12+98.9	"A"12+98.9	"A"15+07.4	"A"16+25	"A"16+22.2	"A"16+21.7
OFFSET	149.3' LT	149.3' LT	159.9' LT	145.9'LT	54.1' RT	254.1' RT
SIGN NUMBER	SIGN NO. 2	SIGN NO. 1	SIGN NO. 2	SIGN NO. 2	SIGN NO. 2	SIGN NO. 2
REMARKS	NEXT TO PERSONNEL GATE	NEXT TO PERSONNEL GATE	RELOCATED FROM EXIST FENCE TO BOUNDARY FENCE	RELOCATED FROM EXIST FENCE TO BOUNDARY FENCE	RELOCATED FROM EXIST FENCE TO BOUNDARY FENCE	ON BOUNDARY FENCE

SIGNING SCHEDULE SUMMARY

NUMBER	⑦	⑧	⑨	⑩	⑪	⑫
STATION	"A"11+96.5	"A"11+74.2	"A"11+74.2	"A"12+09.3' LT	"A"12+09.3	"A"13.35.3
OFFSET	138.9' LT	139.1' LT	139.1' LT	157.88' LT	237.5' LT	237.5'. LT
SIGN NUMBER	SIGN NO. 3	SIGN NO. 2	SIGN NO. 1	SIGN NO. 4	SIGN NO. 5	SIGN NO. 5
REMARKS	NEW 14'-6" ELEC. GATE	NEXT TO PERSONNEL GATE	NEXT TO PERSONNEL GATE	ON FENCE CENTERED @ ADA PARKING	AT NEW APRON ENTRANCE	AT EXIST. PARKING LOT ENTRANCE

NOTE:

1) SEE SIGNING DETAIL SHEET FOR SIGN NOTES AND SIGN NUMBERS.

SIGN LAYOUT PLAN

GRAPHIC SCALE

0' 20' 40' 80' 160'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE J. BERGAN Date 2/1/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS – USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

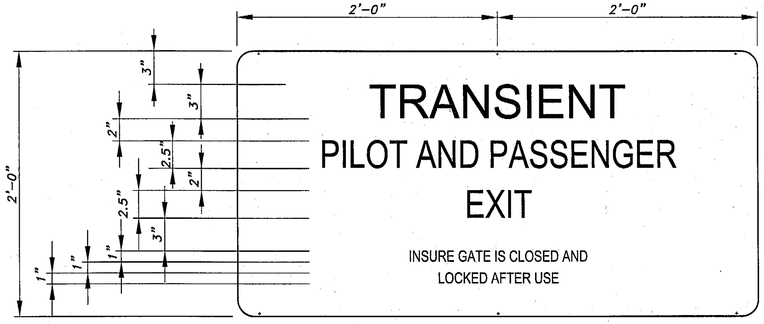
PETERSBURG ALASKA
PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
SIGN LOCATION PLAN

DESIGNED BY: CRC	PROJECT NO. 68283 AIP 03-02-0219-0903
DRAWN BY: CRC	DATE: July, 2003
CHECKED BY: JMP	SHEET A18 OF 28

F:\207 CD\OVERALL.DWG PLOT: September 22, 2003 at: 12:01pm

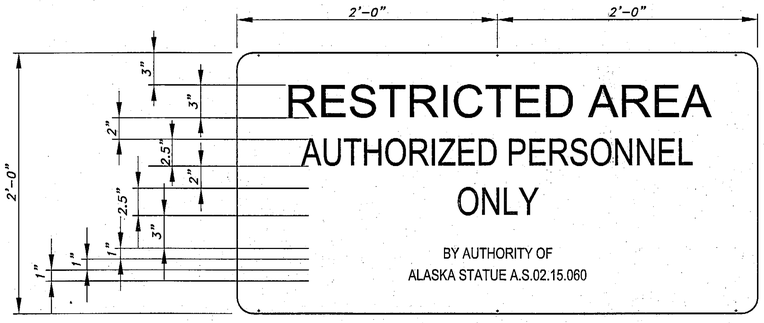
SIGNING NOTES

1. SIGN PLATES SHALL HAVE RED REFLECTIVE SHEETING WITH WHITE LETTERING.
2. SIGN PLATES SHALL BE PLACED ON THE FENCE OR GATES, EXEPT AS NOTED UNDER 6 BELOW, 4' ABOVE THE GROUND. (MEASURED TO BOTTOM OF SIGN)
3. "AUTHORIZED VEHICLES" SIGNS SHALL BE USED ON GATES FOR VEHICULAR ACCESS. "AUTHORIZED PERSONNEL" SIGNS SHALL BE USED ON GATES FOR PERSONNEL ACCESS.
4. BOTH SIGNS SHALL BE USED WHERE VEHICLE/PERSONNEL COMBINATIONS OCCUR.
5. ALL AIRPORT SIGNS SHALL BE ATTACHED TO FENCE WITH 10 GA. STEEL WIRE. THE PERSONNEL SIGN PLATES SHALL BE PLACED EVERY 200' ALONG THE 8' CHAIN LINK FENCE.
6. THE "TRANSIENT PILOT AND PASSENGER" SIGN PLATES SHALL BE PLACED ON THE APRON SIDE OF THE FENCE IMMEDIATELY ADJACENT TO TRANSIENT PEDESTRIAN GATES.
7. SEE SIGN LOCATIONS PLAN FOR SUMMARY.

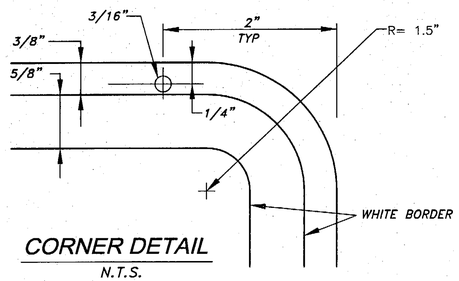


INFORMATION SIGN
SIGN NO. 1

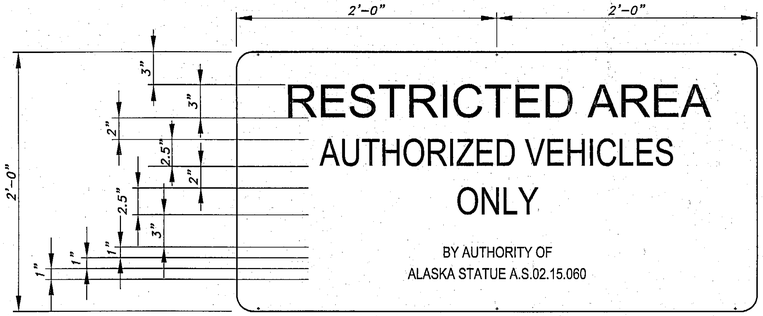
ADA SIGN
SIGN NO.4



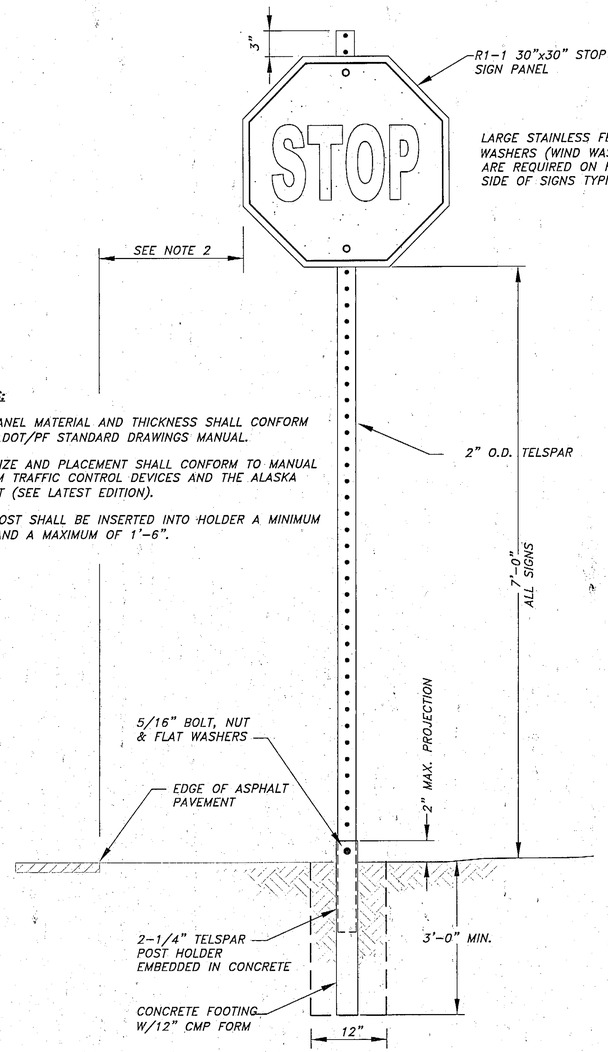
GATE SIGN - PERSONNEL
SIGN NO.2



CORNER DETAIL
N.T.S.



GATE SIGN - VEHICLES
SIGN NO.3



SIGN NOTES:

1. SIGN PANEL MATERIAL AND THICKNESS SHALL CONFORM TO ALASKA DOT/PF STANDARD DRAWINGS MANUAL.
2. SIGN SIZE AND PLACEMENT SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE ALASKA SUPPLEMENT (SEE LATEST EDITION).
3. SIGN POST SHALL BE INSERTED INTO HOLDER A MINIMUM OF 1'-0" AND A MAXIMUM OF 1'-6".

STOP SIGN DETAIL
SIGN NO. 5

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE J. Berg Date 2/11/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE PLANS – USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

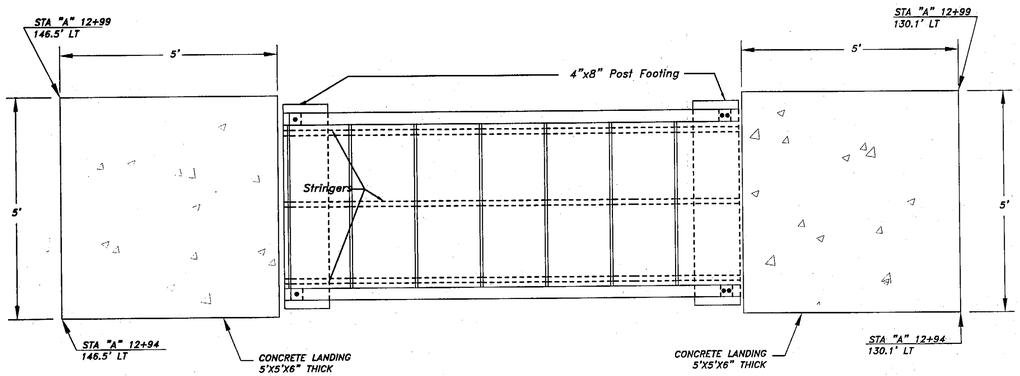
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

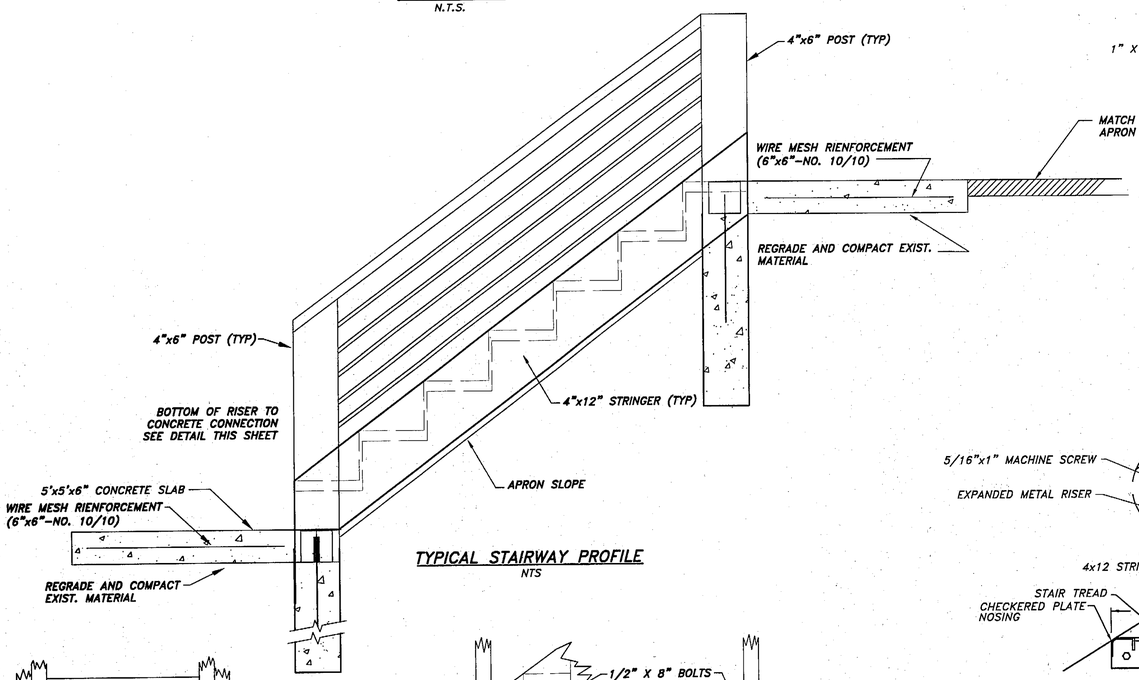
PETERSBURG *ALASKA*
PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
SIGNING DETAILS

DESIGNED BY:	CRC	PROJECT NO.	68283 AIP 03-02-0219-0903
DRAWN BY:	CRC	DATE:	July, 2003
CHECKED BY:	JMP	SHEET	A19 OF 28

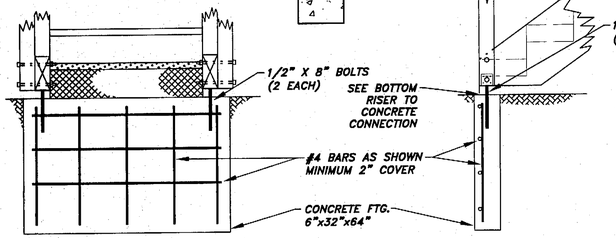
F:\DOT CD\SIGN DETAILS.DWG PLOT: September 22, 2003 at: 1:43pm



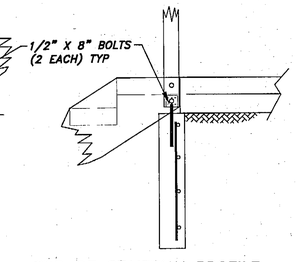
STAIR PLAN
N.T.S.



TYPICAL STAIRWAY PROFILE
NTS



STAIRWAY SECTION @ LANDINGS
NTS



BOTTOM OF STAIRWAY PROFILE
NTS

TOP OF STAIRWAY PROFILE
NTS

STAIRWAY AND LANDING NOTES:

1. STAIRWAY TREADS SHALL BE STEEL GRATING 1" X 3/16" BEARING BARS AND 1/4" CROSS BARS, RYERSON 19W4 OR EQUAL. STAIRWAY TREAD AND LEADING EDGE OF LANDING WILL BE SUPPLIED WITH CARRIER PLATES. MINIMUM TREAD WIDTH SHALL BE 11". GRATING SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM-A-153.

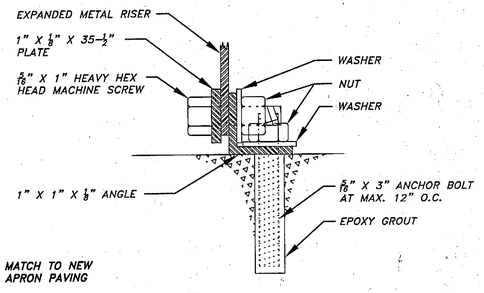
2. POST BASES SHALL BE GALVANIZED, SIMPSON EPB 44A OR EQUAL.

TREADS TO STRINGERS	3/8" X 3" LAG SCREWS
4 X 6 POST TO STRINGER	1/2" X 10" BOLTS 1/2" (2) EA. SIDE

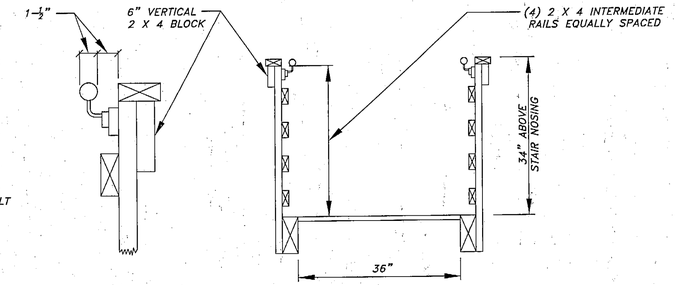
3. ALL OTHER CONNECTIONS SHALL BE MADE WITH GALVANIZED FASTENINGS IN ACCORDANCE WITH THE UNIFORM BUILDING CODE. WASHERS SHALL BE USED ON ALL BOLTS NOT BEARING ON METAL.

4. ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-A-153.

5. ALL WOOD SHALL BE TREATED WITH ACA OR CCA IN ACCORDANCE WITH LP-22. LUMBER SHALL BE HEM-FIR, NO. 2 AND BETTER.

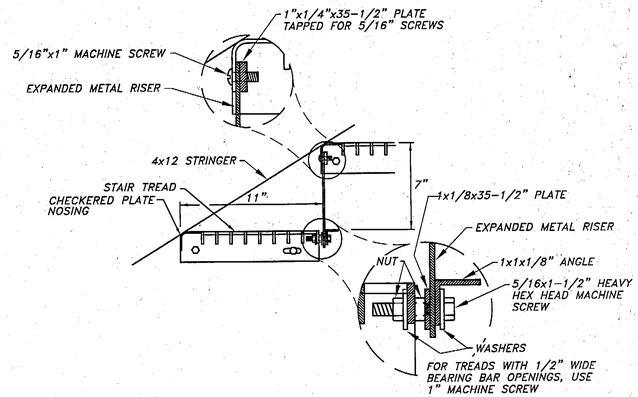


BOTTOM OF RISER TO CONCRETE CONNECTION
N.T.S.

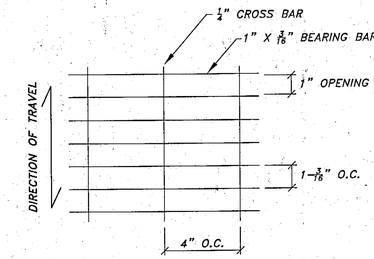


HANDRAIL DETAIL
N.T.S.

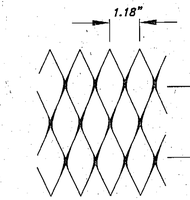
STAIRWAY SECTION
N.T.S.



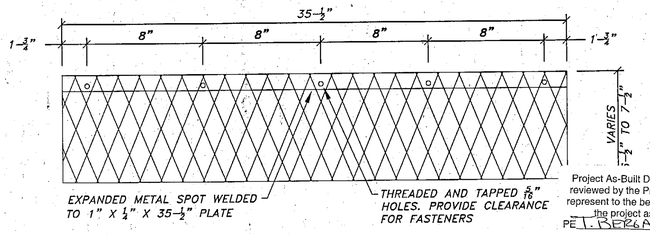
ADJUSTABLE HEIGHT RISER
N.T.S.



STAIR TREAD
N.T.S.



EXPANDED METAL RISER
N.T.S.



EXPANDED METAL RISER DETAIL
N.T.S.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE [illegible] Date 2/1/05

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

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

ENGINEER'S SEAL

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

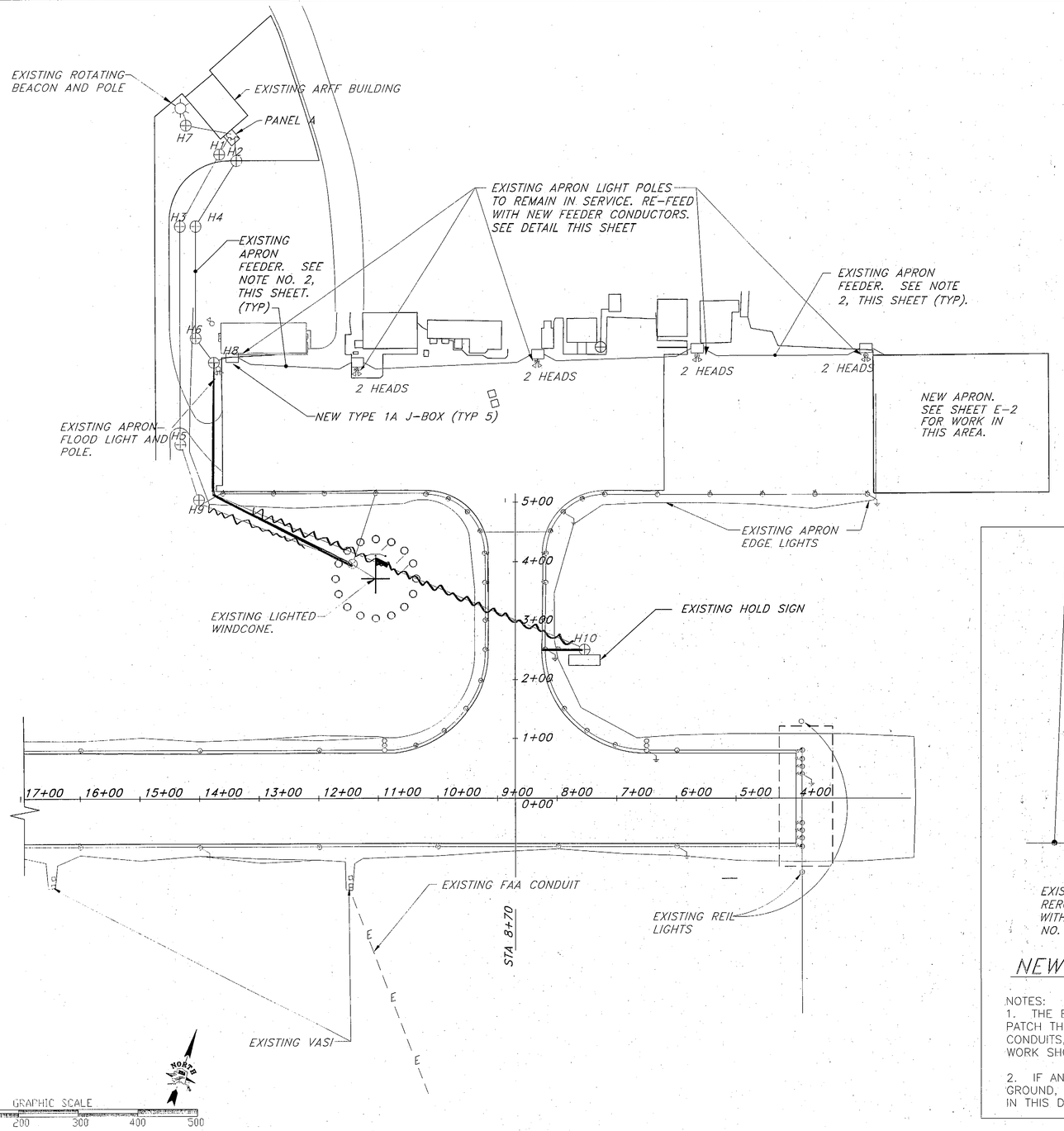
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
STAIR PLAN & DETAILS

DESIGNED BY:	CRC	PROJECT NO.	68283 AIP 03-02-0219-0903
DRAWN BY:	CRC	DATE:	July, 2003
CHECKED BY:	JMP	SHEET	A20 OF 28

F:\.DOT C2\ WOODEN STAIR DETAIL.DWG PLOT: September 22, 2003 at: 1:46pm



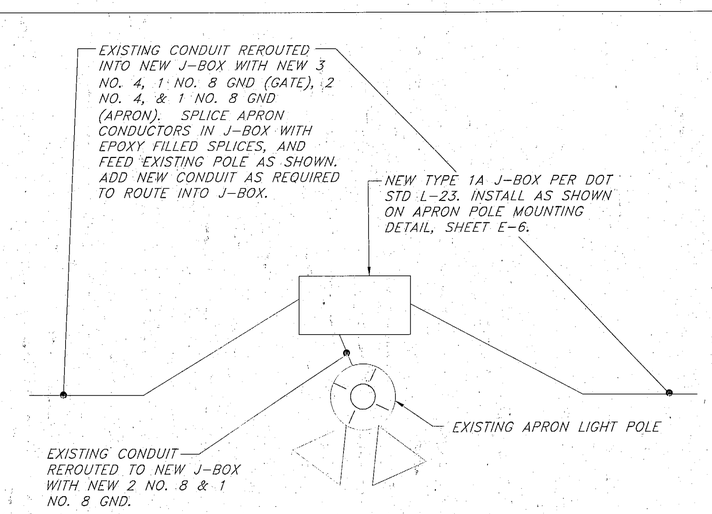
NOTES:

1. PANEL A IN THE EXISTING ARFF BUILDING FEEDS THE APRON LIGHTS THROUGH A 30/2 C/B. REPLACE THE C/B WITH A 50/2 C/B. ADD A NEW 50/2 C/B TO FEED THE NEW GATE.

2. ~~THE EXISTING APRON LIGHTS ARE TO REMAIN. THEY ARE FED BY A FEEDER IN CONDUIT THAT IS ROUTED FROM PANEL A TO HAND HOLE H2, THEN THROUGH HAND HOLES H4, H6, AND H8 TO THE FIRST FLOOD LIGHT. THE FEEDER IS THEN ROUTED IN CONDUIT BETWEEN LIGHT POLES. RE-USE THE EXISTING CONDUIT AND REPLACE THE FEEDER CONDUCTORS WITH 2 NO. 4 AND 1 NO. 8 GND (APRON LTS) AND 3 NO. 4 AND 1 NO. 8 GND (GATE). REPLACE THE APRON FEEDERS ACROSS THE APRON TO ALL EXISTING APRON FLOOD LIGHTS. FEED THE NEW FLOOD LIGHT ON THE NEW APRON FROM THE LAST EXISTING FLOOD LIGHT. SEE SHEET E-2.~~

3. ADD TYPE 1A J-BOX AT EACH EXISTING APRON LIGHT POLE. INTERCEPT THE EXISTING CONDUITS THAT FEED THE POLE, AND RE-ROUTE THEM INTO THE NEW J-BOX. ROUTE THE NEW (3) NO. 4 AND 1 NO. 8 GND (GATE) THROUGH THE J-BOX. SPLICE THE NEW 2 NO. 4 AND 1 NO. 8 GND (APRON) TO NEW 2 NO. 8 AND 1 NO. 8 GND CONDUCTORS AND RE-FEED THE EXISTING POLE WITH THE 2 NO. 8 AND 1 NO. 8 GND. SEE DETAIL THIS SHEET.

4. PROVIDE A DRAIN IN ALL CONDUIT ELBOWS. DRILL (3) 1/2" HOLES 1" APART. WRAP CONDUIT IN FILTER FABRIC EXTENDING MIN 6" ON EACH SIDE OF HOLES.



NEW J-BOX AT EXTG. APRON LT. POLE-

NO SCALE

NOTES:
1. THE EXISTING APRON LIGHT POLES ARE IN ASPHALT. CUT AND PATCH THE ASPHALT AS REQUIRED TO RE-ROUTE AND EXTEND THE CONDUITS, INSTALL NEW J-BOXES, AND AS REQUIRED TO PERFORM THE WORK SHOWN.

2. IF AN EXISTING APRON LIGHT POLE IS FED FROM A J-BOX IN THE GROUND, REPLACE THE J-BOX WITH THE NEW TYPE 1A J-BOX SHOWN IN THIS DETAIL, AND PERFORM THE WIRING SHOWN.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. BERGAM Date 7/1/05

PLANS DEVELOPED BY:
IHH ELECTRICAL

NOTE:
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA
49th
Mark G. Morris
No. 8613
REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
ELECTRICAL SITE PLAN

DESIGNED BY:	PROJECT NO. 68283
	AIP 03-02-0219-0903
DRAWN BY:	DATE:
	July, 2003
CHECKED BY:	SHEET E-1 OF 28

GROGAN BUILDING

TRAILER

L.A.B.

NEW TYPE 1A JUNCTION BOX PER DOT STD L-23 (TYP)

PROVIDE ELECTRICAL EQUIPMENT FOR NEW GATE IN THIS AREA. SEE SHEETS E-7,E-8, & A12.

NEW GATE CONTROL PANEL. SEE SHEET A12.

NEW 2" C, 3 NO. 4 AND 1 NO. 8 GND

NEW TYPE 1A JUNCTION BOX

NEW TYPE 1A JUNCTION BOX

NEW TYPE 1A JUNCTION BOX

NEW 2"C, 2 NO.8, 1 NO. 8 GND SPLICE IN J-BOX TO (2) NO. 4 & (1) NO. 8 GND.

EXISTING LIGHT POLE WITH FLOOD LIGHTS TO REMAIN

EXISTING CONDUIT. REROUTE TO NEW J-BOXES. REPLACE CONDUCTORS WITH 2 NO. 4, & 1 NO. 8 GND. (LTG). & 3 NO. 4 & 1 NO. 8 GND (GATE) PROVIDE EXTENSION IN CONDUIT AS NECESSARY.

EXISTING CONDUIT. REROUTE TO NEW J-BOXES. REPLACE CONDUCTORS WITH 2 NO. 4, & 1 NO. 8 GND. (APRON) & 3 NO. 4 & 1 NO. 8 GND (GATE. PROVIDE EXTENSIONS IN CONDUIT AS NECESSARY.

NEW 2"C, 2 NO. 8 & 1 NO. 8 GND

NEW LIGHT POLE WITH (2) FLOOD LIGHTS. SEE DETAIL, SHEET E6. STA "A" 13+70, 120 LT

NEW 2"C, 2 NO. 8 & 1 NO. 8 GND

NEW LIGHT POLE WITH (2) FLOOD LIGHTS. SEE DETAIL, SHEET E6. STA "A" 15+15, 120 LT

L113 (TYP)

EXISTING LIGHT POLE WITH TWO FLOOD LIGHTS TO REMAIN.

EXISTING CONDUIT. REROUTE TO NEW J-BOX. REPLACE CONDUCTORS WITH 2 NO. 8, & 1 NO. 8 GND.

NEW 2"C, 2 NO. 4 & 1 NO. 8 GND ROUTE TO NEW J-BOX

T/W LT	STATION & OFFSET
L108	"A" 13+99.5, 110.4 RT
L109	"A" 14+97.7, 110.4 RT
L110	"A" 15+91.7, 110.4 RT
L111	"A" 15+91.7, 34.0 RT
L112	"A" 15+91.7, 43.8 LT
L113	"A" 15+91.7, 121.4 LT

"A" 12+00

"A" 13+00

"A" 14+00

"A" 15+00

"A" 16+00

N 18°51' W

L112

L111

L110

NEW 2"C, 2 NO. 8, 5 KV CABLE TYPE C, & 1 NO. 8 GND. ROUTE INTO NEW BASE OF EXISTING LIGHT 107.

NEW 2"C, 2 NO. 8, 5 KV CABLE TYPE C, & 1 NO. 8 GND. (TYPICAL FOR TAXIWAY LTG)

NEW ADB TAXIWAY LIGHT. (TYPICAL OF 6) SEE DETAIL, SHEET E5.

L108

L109

EXISTING TAXIWAY LIGHT. REPLACE BASE. ROUTE NEW CONDUIT AND CABLES FROM THIS BASE TO THE NEW TAXIWAY LIGHT 108

GRAPHIC SCALE

0' 10' 20' 40' 80'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. BERGAN Date 2/1/05

NOTE:
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ENGINEER'S SEAL

STATE OF ALASKA 49th Mark G. Morris No. 8613 REGISTERED PROFESSIONAL ENGINEER

PATH:

BY:	DATE:	DESCRIPTION OF CHANGE:

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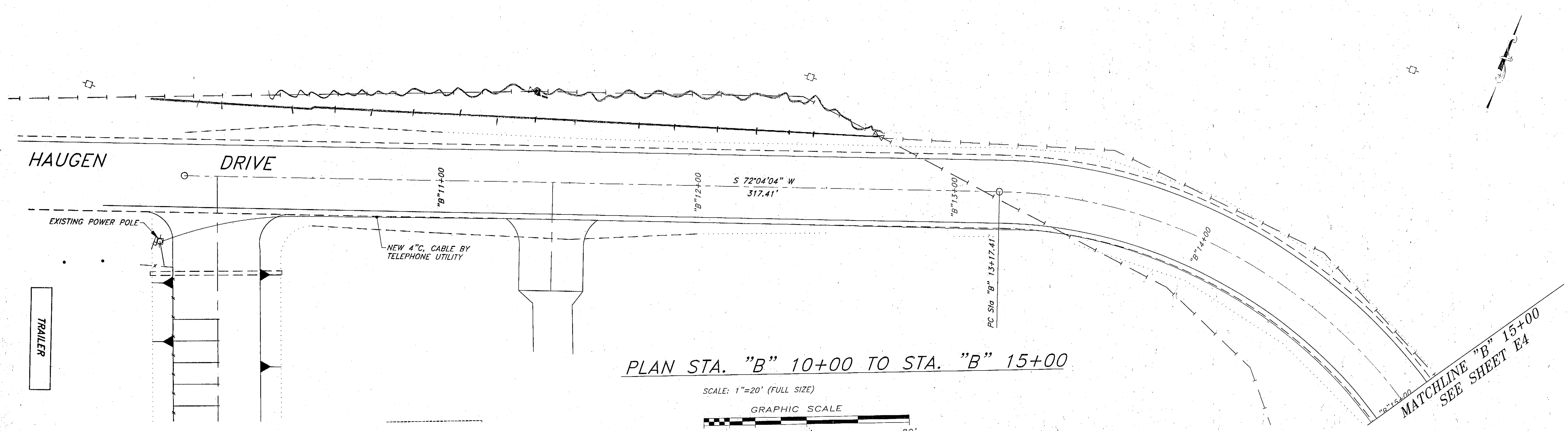
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG ALASKA

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
APRON ELECTRICAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

PROJECT NO. 68283
AIP 03-02-0219-0903
DATE: July, 2003
SHEET E2 OF 28

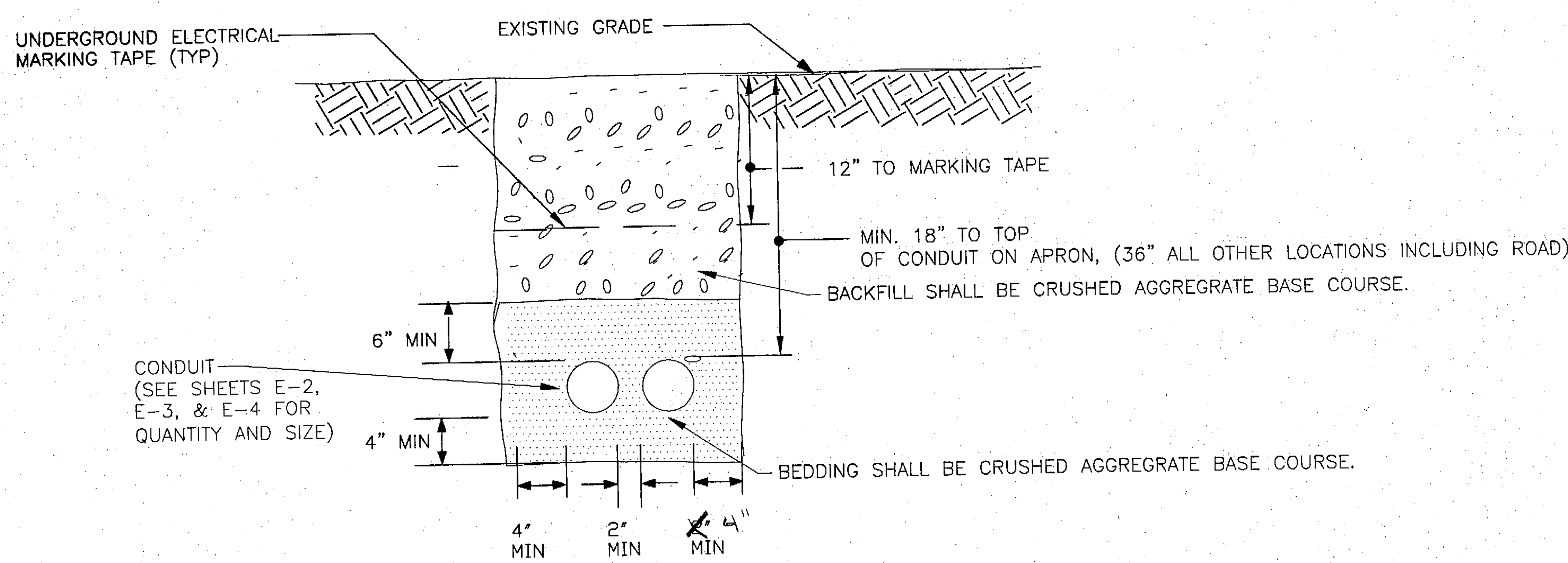


PLAN STA. "B" 10+00 TO STA. "B" 15+00

SCALE: 1"=20' (FULL SIZE)

GRAPHIC SCALE

0' 10' 20' 40' 80'



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 18" MINIMUM BELOW FINISH GRADE ON APRON AND 36 " NEXT TO THE ROAD.
3. SLOPE CONDUIT AT 0.5% MIN. PER DETAIL ON SHEET E5.
4. TRENCH BEDDING AND BACKFILL TO BE COMPACTED TO 95% MAXIMUM DENSITY.
5. SEE SHEETS E2 – E4 FOR NUMBER OF CONDUITS IN TRENCH OR CONCRETE.
6. WHERE TRENCHING THROUGH EXISTING ASPHALT, PATCH ASPHALT OR CONCRETE PER APPLICABLE SPECIFICATIONS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. Bergan Date 2/1/05

PLANS DEVELOPED BY:
IHH ELECTRICAL

NOTE:
DO NOT SCALE FROM THESE PLANS – USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA 49th Mark G. Morris No. 8613 REGISTERED PROFESSIONAL ENGINEER

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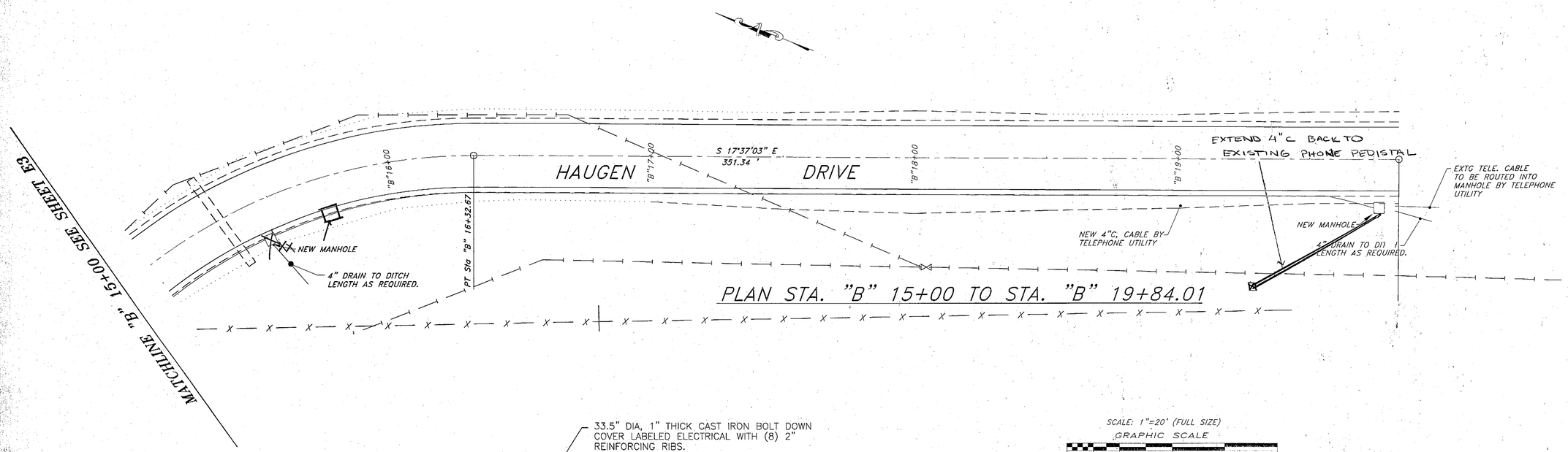
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG ALASKA
PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
ELECTRICAL PLAN STA. "B" 10+00 TO STA. "B" 15+00

DESIGNED BY:
DRAWN BY:
CHECKED BY:

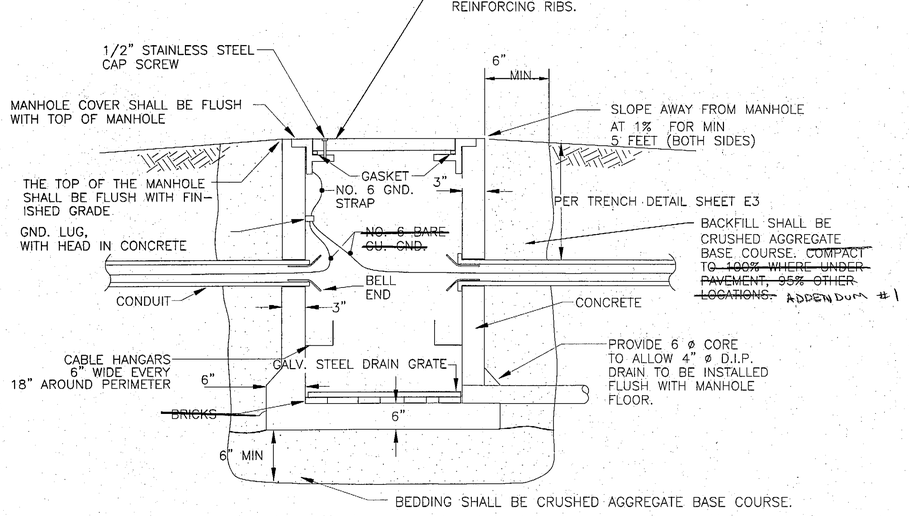
PROJECT NO. 68283
AIP 03-02-0219-0903
DATE: July, 2003
SHEET E3 OF 28



SCALE: 1"=20' (FULL SIZE)

GRAPHIC SCALE

0' 10' 20' 40' 80'



DETAIL: MANHOLE (TYP)

NO SCALE

NOTE:

1. MANHOLES SHALL BE 48" WIDE 48"LONG X 48" DEEP OUTSIDE DIMENSIONS. UTILIVAULT 444-LA OR APPROVED EQUAL. INCREASE DEPTH AS REQUIRED TO MAINTAIN DRAINAGE BETWEEN MANHOLES AT 1% MIN. SLOPE. SEE SHEETS
2. THE COVERS FOR MANHOLES CONTAINING POWER CABLES SHALL BE LABELED "ELECTRICAL".
3. PROVIDE 4" DRAINS FOR ALL MANHOLES. SLOPE AT 1% MIN. TO DAYLIGHT. PROVIDE LENGTH AS NECESSARY.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T BERGEN Date 2/1/05

PLANS DEVELOPED BY:
IHH ELECTRICAL

NOTE:
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ENGINEER'S SEAL

STATE OF ALASKA 49th Mark C. Morris No. 8613 REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

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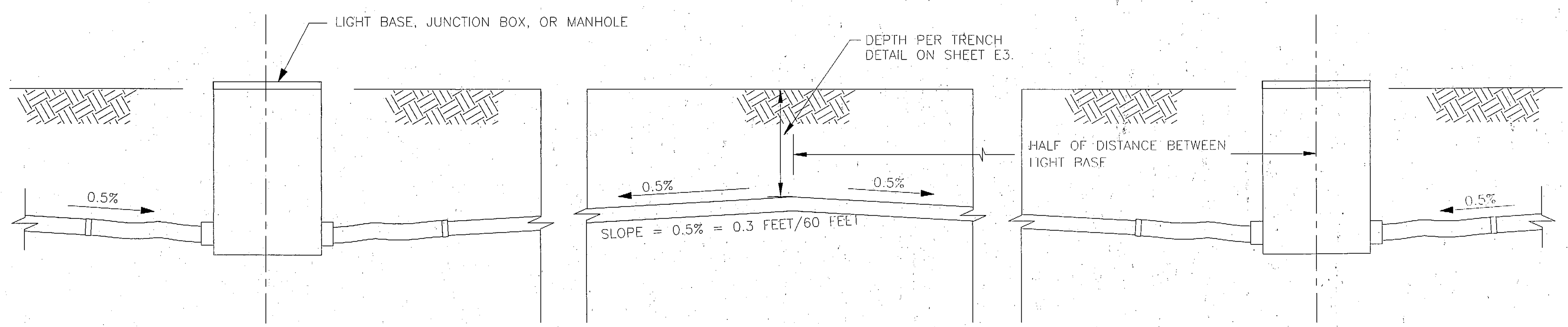
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
ELECTRICAL PLAN STA. "B" 15+00 TO STA. "B" 19+84.01

DESIGNED BY:	PROJECT NO. 68283 AIP 03-02-0219-0903
DRAWN BY:	DATE: July, 2003
CHECKED BY:	SHEET E4 OF 28

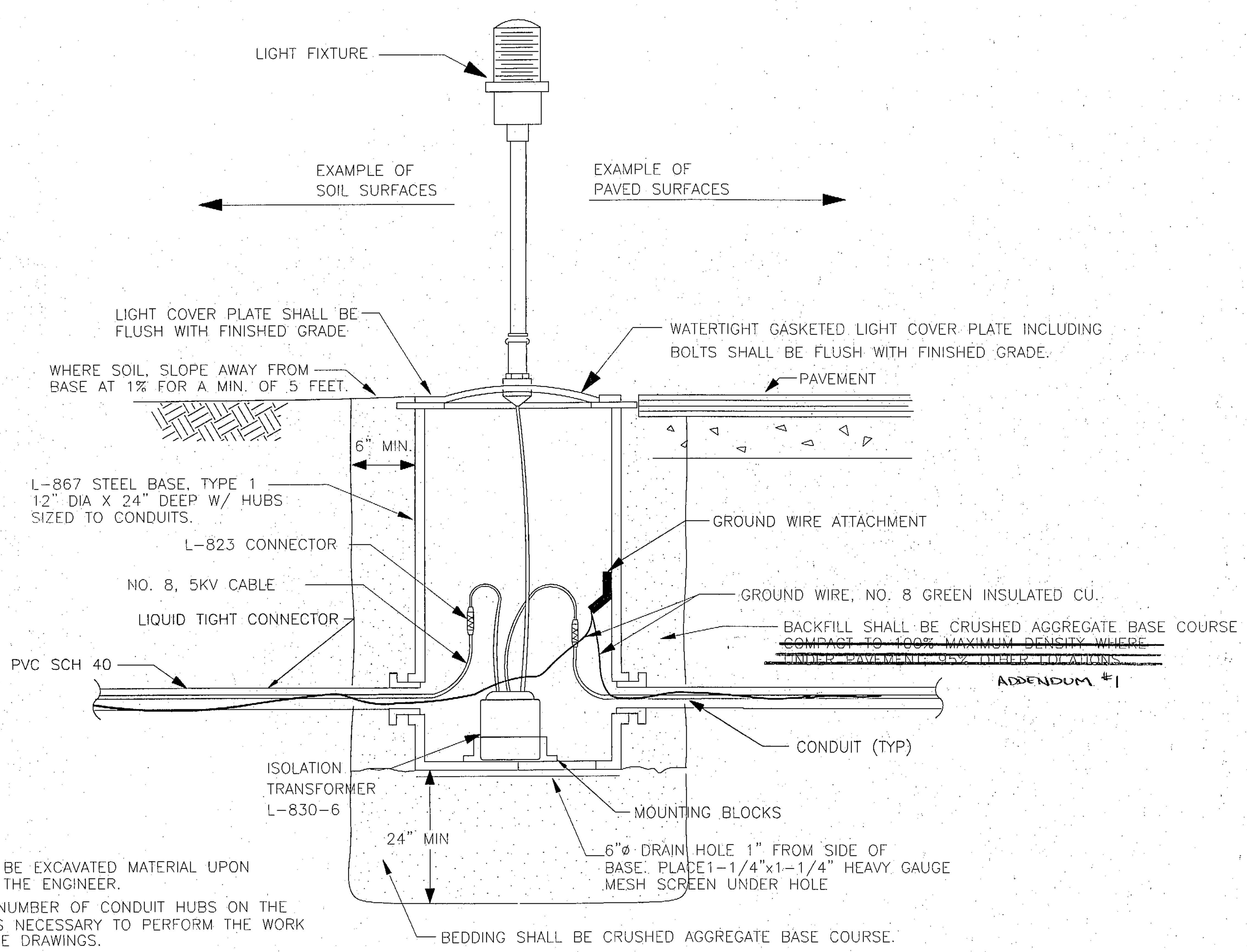


DETAIL: CONDUIT INSTALLATION (TYP)

NO SCALE

NOTES:

1. ALL CONDUIT SHALL BE SLOPED TO DRAIN.
2. REFER TO MANHOLE OR EDGE LIGHT DETAILS THIS SHEET & E4 FOR CONNECTIONS TO 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.

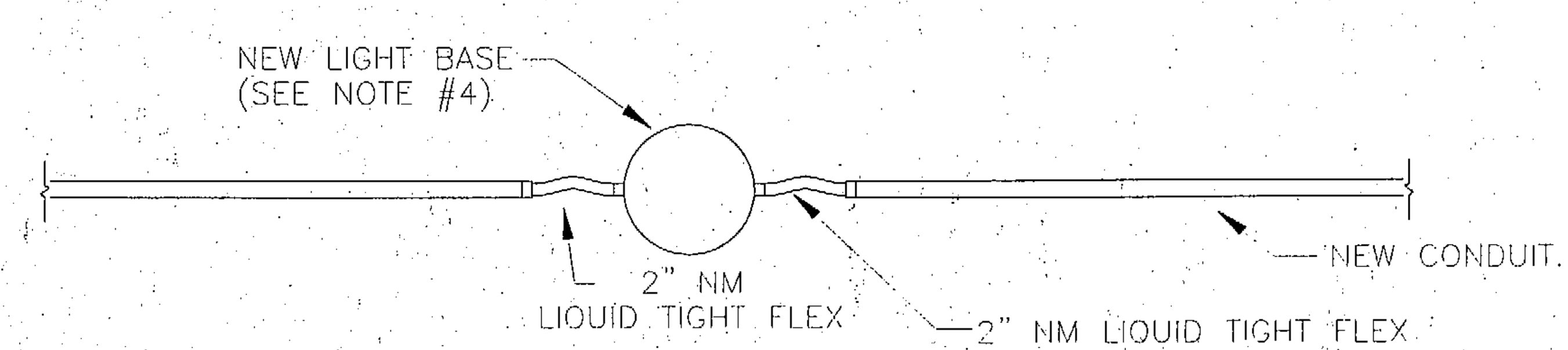


NOTES:

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.

DETAIL: TAXIWAY/RUNWAY EDGE LIGHT (TYP)

NO SCALE



DETAIL: LIGHT BASE & CONDUIT INSTALLATION (TYP)

NO SCALE

NOTES:

1. INSTALL THE NEW TAXIWAY LIGHT BASES 3.0 FEET FROM THE OUTSIDE EDGE OF THE TAXIWAY EDGE LINE TO THE CENTER TO THE CENTER OF THE LIGHT LENS.
2. INSTALL THE CONDUIT IN A STRAIGHT LINE BETWEEN THE LIGHT BASES.
3. INSTALL THE NEW TAXIWAY LIGHTS PRIOR TO THE NEW ASPHALT. PAVE AROUND THE LIGHTS SO THE LIGHT BASE IS FLUSH WITH THE ASPHALT.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. BERGAM Date 2/1/05

PLANS DEVELOPED BY:
IHH ELECTRICAL

NOTE:
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

ENGINEER'S SEAL
STATE OF ALASKA 49th Mark G. Morris No. 8613 REGISTERED PROFESSIONAL ENGINEER

PATH:		
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RECORD OF REVISIONS

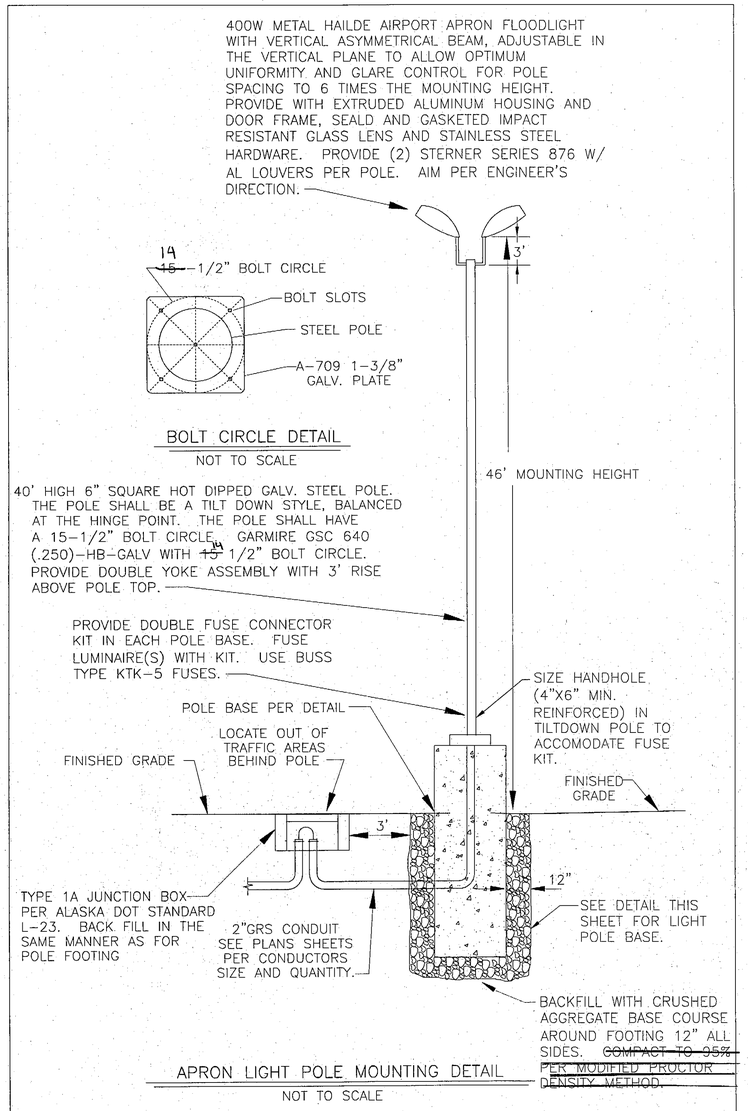
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
TAXIWAY LIGHTING DETAILS

DESIGNED BY:
DRAWN BY:
CHECKED BY:

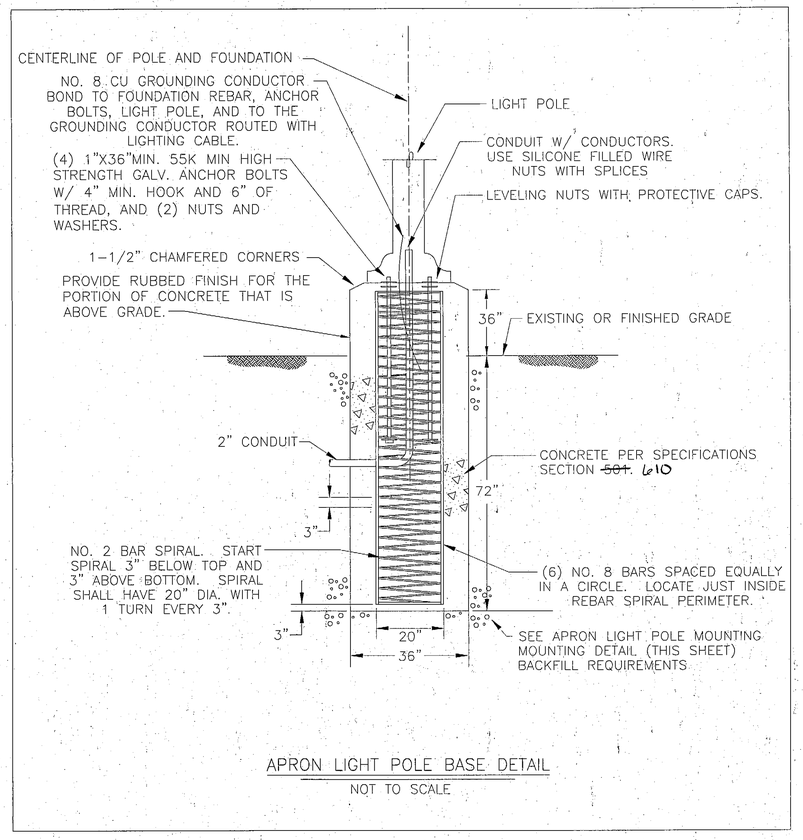
PROJECT NO. 68283
AIP 03-02-0219-0903
DATE: July, 2003
SHEET E5 OF 28



APRON LIGHT POLE MOUNTING DETAIL
NOT TO SCALE

NOTES:

1) PROVIDE HOT DIPPED MALLEABLE IRON GROUNDING BUSHINGS W/ BRONZE LUGS ON CONDUIT
2) PROVIDE FUSE KITS IN EACH POLE BASE, SEC 1791-DF OR EQUAL.
3) SIZE POLE & LIGHTS FOR 120 MPH SUSTAINED WINDS WITH GUSTS TO 150 MPH. POLE DIMENSIONS SHOWN ARE THE MINIMUM.
4) INSTALL NEW J-BOXES FOR EXISTING APRON POLES PER APPLICABLE PORTIONS OF THIS DETAIL.



APRON LIGHT POLE BASE DETAIL
NOT TO SCALE

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. BERGAN Date 7-1-05

PLANS DEVELOPED BY:
IHH ELECTRICAL

NOTE:
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA
49th
Mark G. Morris
No. 8613
REGISTERED PROFESSIONAL ENGINEER

PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:

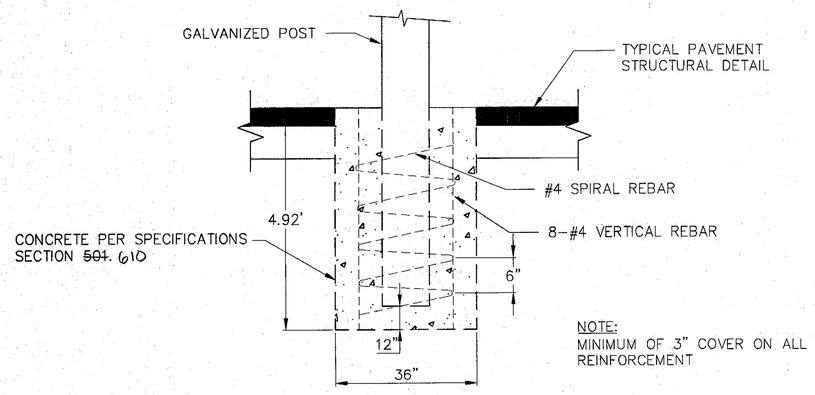
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*
PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
APRON FLOOD LIGHTING DETAILS

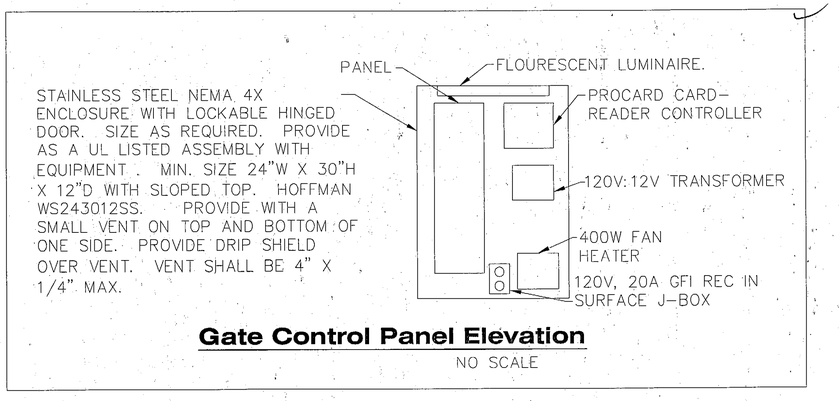
DESIGNED BY:	PROJECT NO. 68283 AIP 03-02-0219-0903
DRAWN BY:	DATE: July, 2003
CHECKED BY:	SHEET *E6* OF *28*

F:\ELEC.DWG PLOT: September 22, 2003 at 2:11pm



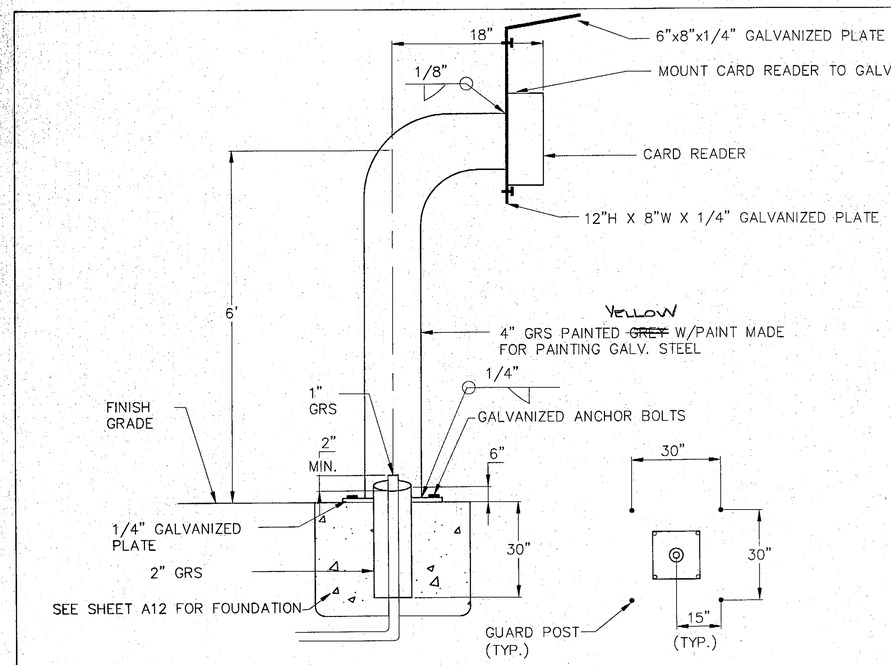
Gate Controller & Control Panel Post Footing Detail

NO SCALE



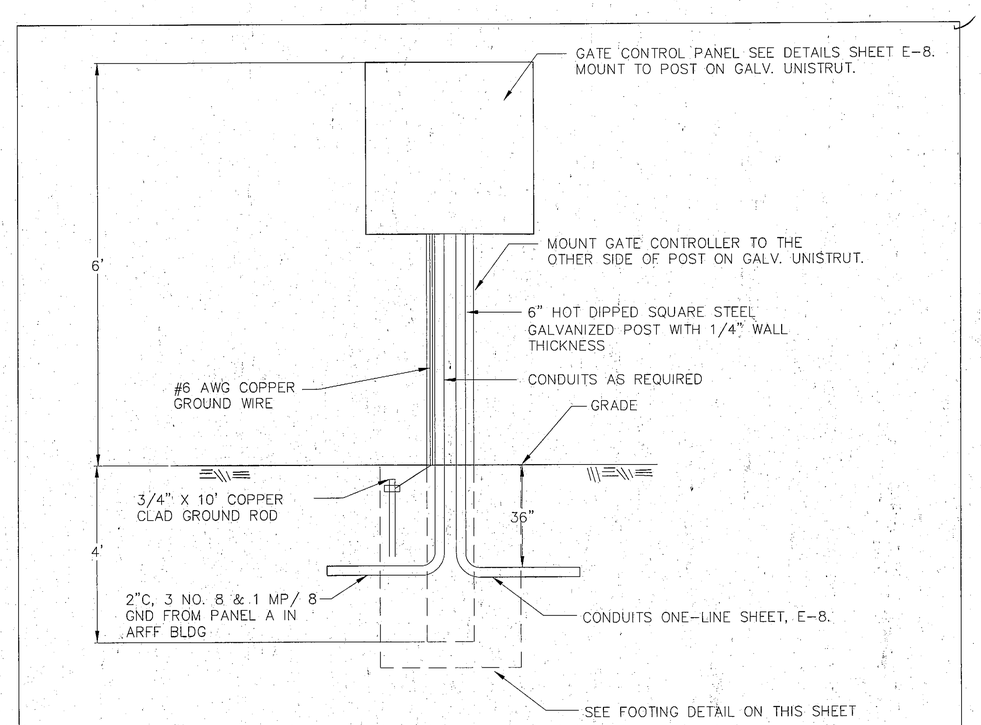
Gate Control Panel Elevation

NO SCALE



CARD READER MOUNTING DETAIL

NO SCALE



Gate Controller & Gate Control Panel Mounting Detail

NO SCALE

NOTES

1. ATTACH CONDUITS TO POST AT 6" INTERVALS.
2. ATTACH GROUND WIRE TO POST AT 6" INTERVALS.
3. SEE SHEET A12 FOR MOUNTING LOCATION OF POST.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. BERGMAN Date 7/1/05

PLANS DEVELOPED BY:
IHH ELECTRICAL

NOTE:
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ENGINEER'S SEAL

STATE OF ALASKA 49th Mark G. Morris No. 8613 REGISTERED PROFESSIONAL ENGINEER

PATH:		
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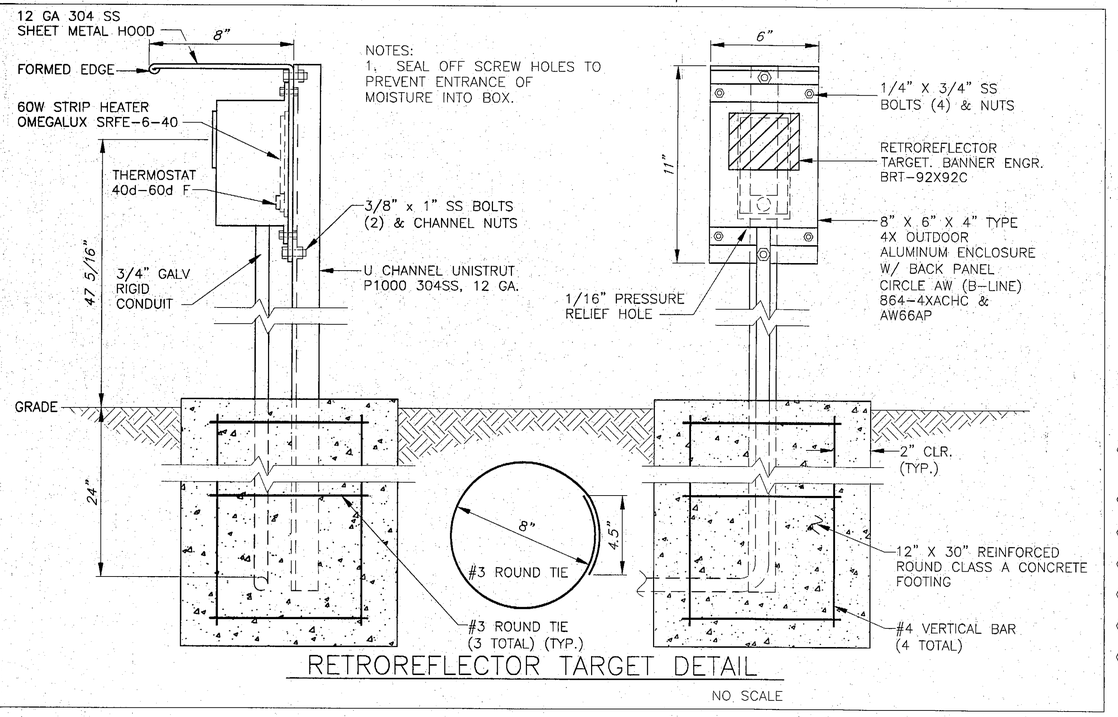
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PETERSBURG *ALASKA*

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
ELECTRICAL GATE DETAILS

DESIGNED BY:
DRAWN BY:
CHECKED BY:

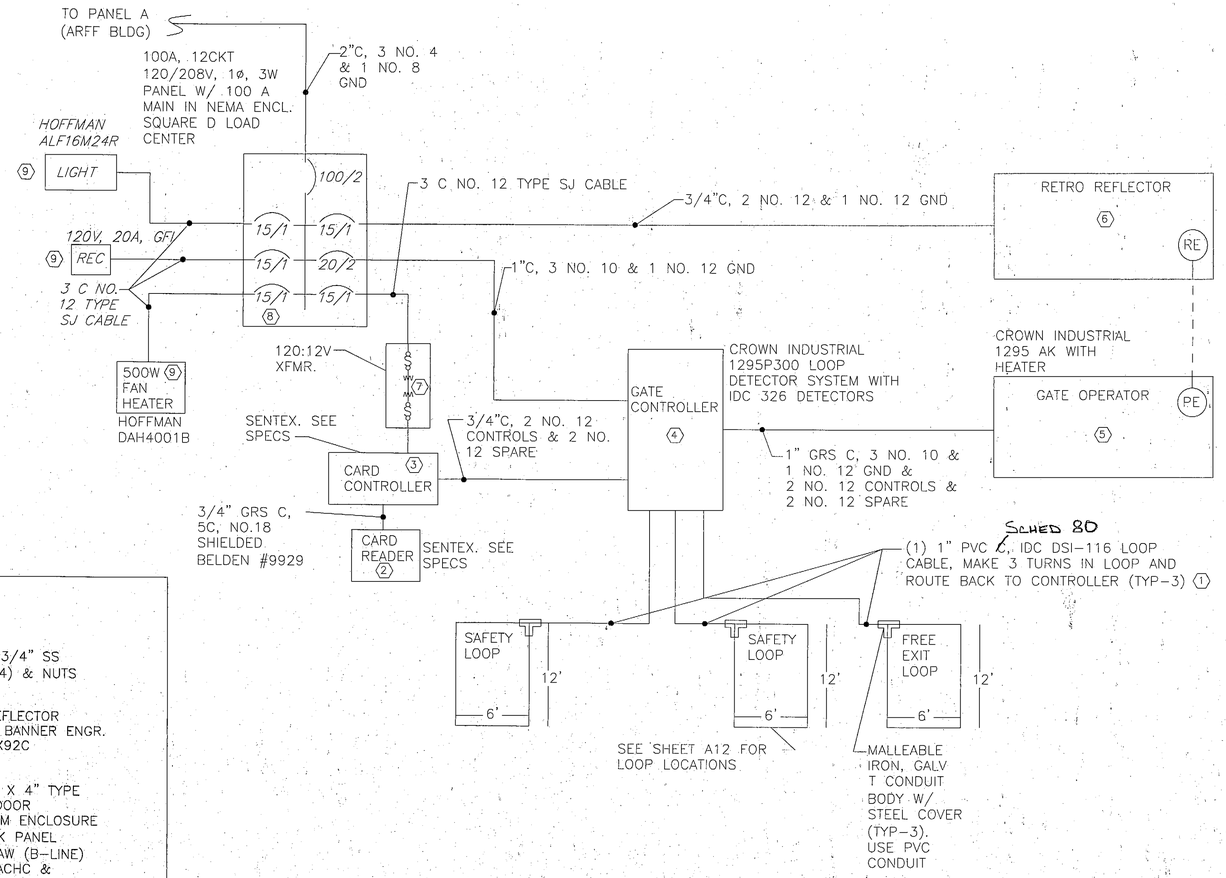
PROJECT NO. 68283
AIP 03-02-0219-0903
DATE: July, 2003
SHEET E7 OF 28



NOTES:
1. SEAL OFF SCREW HOLES TO PREVENT ENTRANCE OF MOISTURE INTO BOX.

RETROREFLECTOR TARGET DETAIL

NO. SCALE



GATE ELECTRICAL ONE LINE & CONTROL SCHEMATIC

NO SCALE

NOTES:

1. ROUTE LOOP CABLE IN PVC CONDUIT. PROVIDE IRON CONDUIT BODY AT "T" IN LOOP TO ALLOW FUTURE ACCESS TO LOOP VIA METAL DETECTOR. BURY CONDUIT 1" BELOW BOTTOM OF ASPHALT. SEE DETAIL SHEET A-12.
2. MOUNT CARD READER AS SHOWN ON SHEET E-7.
3. MOUNT CARD CONTROLLER INSIDE GATE CONTROL PANEL.
4. MOUNT GATE CONTROLLER ON POST PER DETAIL SHEET E-8.
5. MOUNT GATE OPERATOR PER DETAILS, SHEET A-12.
6. SEE RETRO REFLECTOR DETAIL SHEET E-8. SEE MOUNTING LOCATION SHEET A12.
7. PROVIDE A 12V:12V, 200VA CONTROL TRANSFORMER WITH FACTORY INSTALLED PRIMARY & SECONDARY FUSE BLOCKS SQUARE D 9070TF200D 54. PROVIDE WITH DUAL ELEMENT TIME DELAY CLASS CC FUSES ON PRIMARY (2A) AND FAST ACTING CLASS CC FUSES ON SECONDARY (16A).
8. MOUNT PANEL IN GATE CONTROL PANEL
9. MOUNT HEATER, REC, & LIGHT IN GATE CONTROL PANEL.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE J. BERGMANN 7/1/05

PLANS DEVELOPED BY:
IHH ELECTRICAL

NOTE:
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ENGINEER'S SEAL
STATE OF ALASKA
49th
Mark G. Morris
No. 8613
REGISTERED PROFESSIONAL ENGINEER

PATH:		
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PETERSBURG *ALASKA*

PETERSBURG JAMES A. JOHNSON AIRPORT
EAST APRON EXPANSION
GATE ONE LINE DIAGRAM & MISC. DETAILS

DESIGNED BY:	PROJECT NO. 68283 AIP-03-02-0219-0903
DRAWN BY:	DATE: July, 2003
CHECKED BY:	SHEET E8 OF 28