

TEMPORARY THRESHOLD LIGHTS: OUTBOARD LIGHT IN-LINE WITH TEMPORARY EDGE LIGHTS

PLACE 12" RED CONES AT THE BEGINNING AND END OF CLOSED RUNWAY. SPACE CONES AT 6' O.C. SECURE CONES TO WITHSTAND JET BLAST.

EXISTING THRESHOLD LIGHTS: TO BE EXTINGUISHED ON CLOSED RUNWAY SIDE

1/2 SIZE TEMPORARY "X" MARKINGS AT BEGINNING AND END OF RUNWAY ON CLOSED PORTION OF RUNWAY.

TEMPORARY 1/2 SIZE RUNWAY IDENTIFIERS

OBLITERATE FULL SIZE NUMBER

EXISTING RUNWAY EDGE LIGHTING ALONG OPEN SIDE OF RUNWAY TO REMAIN OPERATIONAL

TEMPORARY HALF-WIDTH CENTERLINE MARKING

TEMPORARY EDGE LINE ON THE OPEN HALF (75' MIN.) OF THE RUNWAY. SPACE 12" BLUE CONES W/LIGHTS AT 200' ON CENTER. SECURE CONES TO WITHSTAND JET BLAST, TYP.

PLACE 12" BLUE CONE, TYP.

COVER OR OTHERWISE DISABLE EXISTING RUNWAY EDGE LIGHTING ALONG CLOSED SIDE OF RUNWAY, TYP.

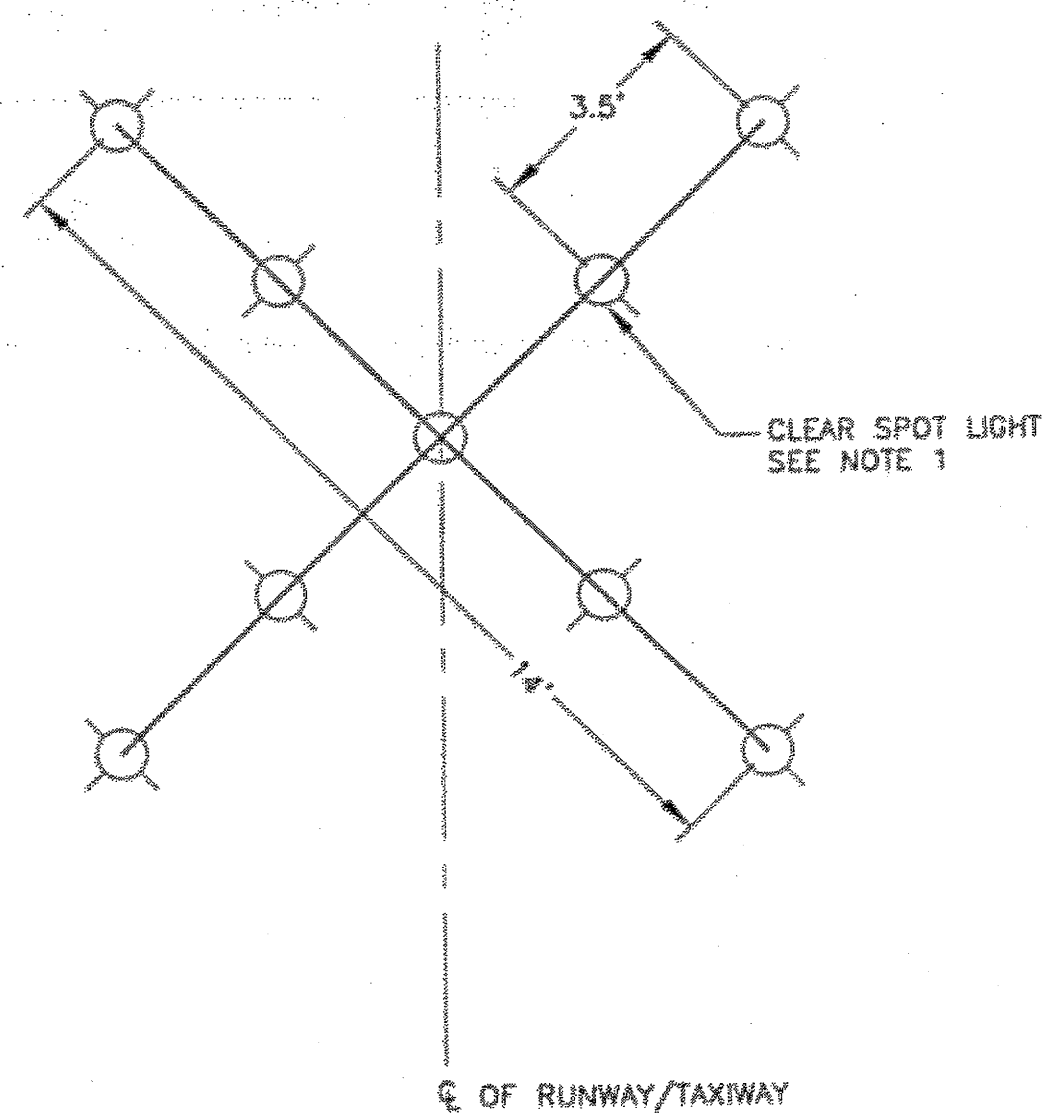
LOW STYLE BARRIERS WITH FLASHING RED LIGHTS ANCHORED TO RESIST JET BLAST, SEE DETAIL THIS SHEET

RUNWAY 11/29 - PARTIAL WIDTH CLOSURE

N.T.S.

NOTES:

1. LIMIT HALF-WIDTH RUNWAY CLOSURE TO THOSE STAGES SHOWN IN THE SAFETY PLAN.
2. PLACE BARRIERS TO LIMIT ACCESS TO THE CLOSED PORTION OF THE RUNWAY. USE LOW STYLE BARRIERS (LESS THAN 12 INCHES HIGH) WHEN ADJACENT TO AN ACTIVE MOVEMENT AREA.
3. PHYSICALLY REMOVE ALL CONFLICTING RUNWAY MARKINGS BY SAND BLASTING, CHEMICAL REMOVER OR BY OTHER APPROVED MEANS. PAINTING OVER OR OTHERWISE MASKING TEMPORARY MARKINGS IS STRICTLY FORBIDDEN.
4. DISABLE AND PREVENT THE OPERATION OF RUNWAY EDGE LIGHTS AND RUNWAY THRESHOLD LIGHTS IN A CLOSED PORTION OF THE RUNWAY.
5. USE PAINTED AIRPORT MARKINGS THAT ARE CONCISE AND CLEARLY VISIBLE TO PILOTS AND ARE NOT MISLEADING, CONFUSING, OR DECEPTIVE.
6. USE TEMPORARY LIGHTING TO OUTLINE THE ACTIVE RUNWAY FOR HALF-WIDTH OPERATIONS.
7. THE RSA FOR HALF-WIDTH OPERATIONS IS 200 FT. EACH SIDE OF THE HALF-WIDTH CENTERLINE.



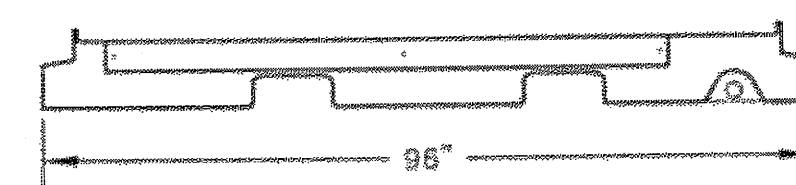
NOTES:

1. REFER TO FAA CIRCULAR 150/5345-55 FOR DETAILS.
2. PLACE CROSSES AT EACH END OF THE CLOSED PORTION OF THE RUNWAY/TAXIWAY.

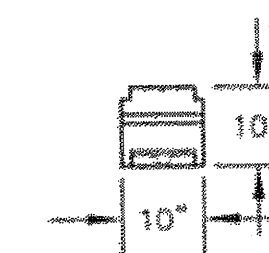
TEMPORARY CLOSURE MARKINGS

N.T.S.

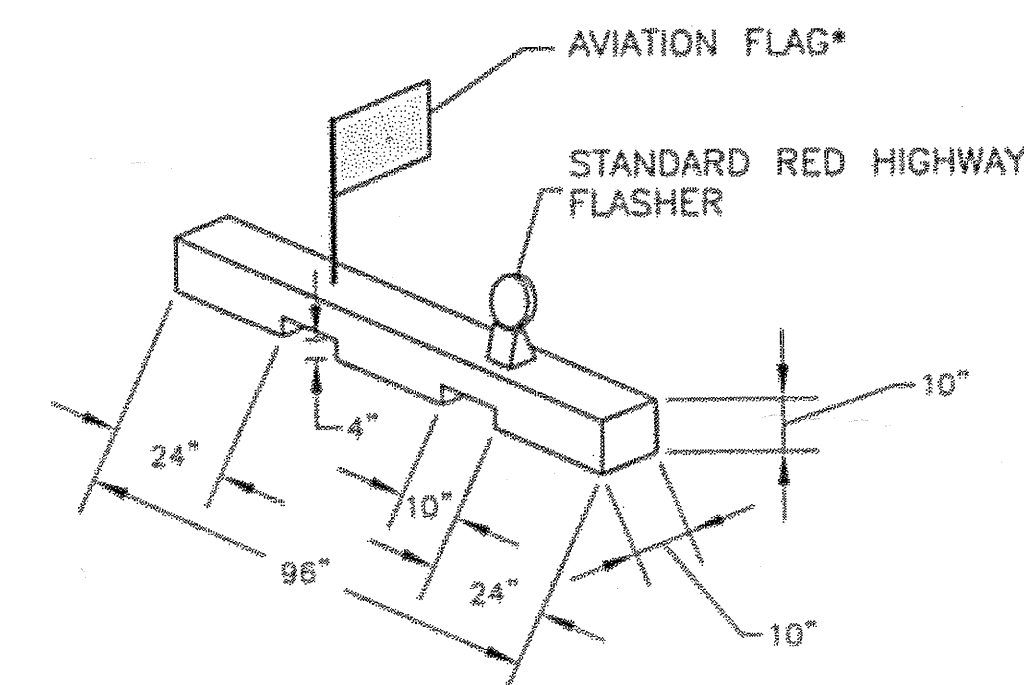
RUNWAY - TAXIWAY INTERSECTION



ELEVATION VIEW



SIDE VIEW



PREPARATION OF
FLAG & FLASHER MOUNT DETAIL

HAZARDOUS AREA BARRIERS

*FLAGS SHALL ALTERNATE COLOR (ORANGE/WHITE) ON EACH BARRIER AS THEY ARE PLACED IN THE AIRPORT OPERATIONS AREA, IN SEQUENCE.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
I:\823400\Draws\C\Sheets\A11.dwg

Wed, 04/Oct/05 08:38AM bpaddock
TAB: A11

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

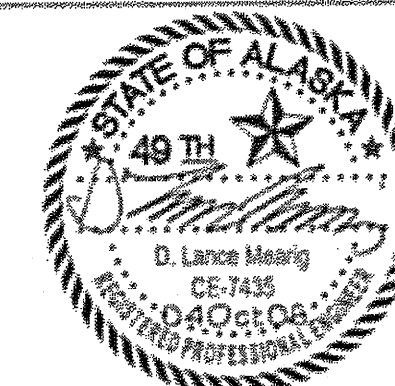
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
RUNWAY SAFETY AREA EXPANSION
& RUNWAY OVERLAY
PROJECT NO. 68306

SAFETY PLAN DETAILS

PREPARED BY: USKH INC.

CHECKED BY: DLM



DESIGNED BY: NCL

DRAWN BY: WJP

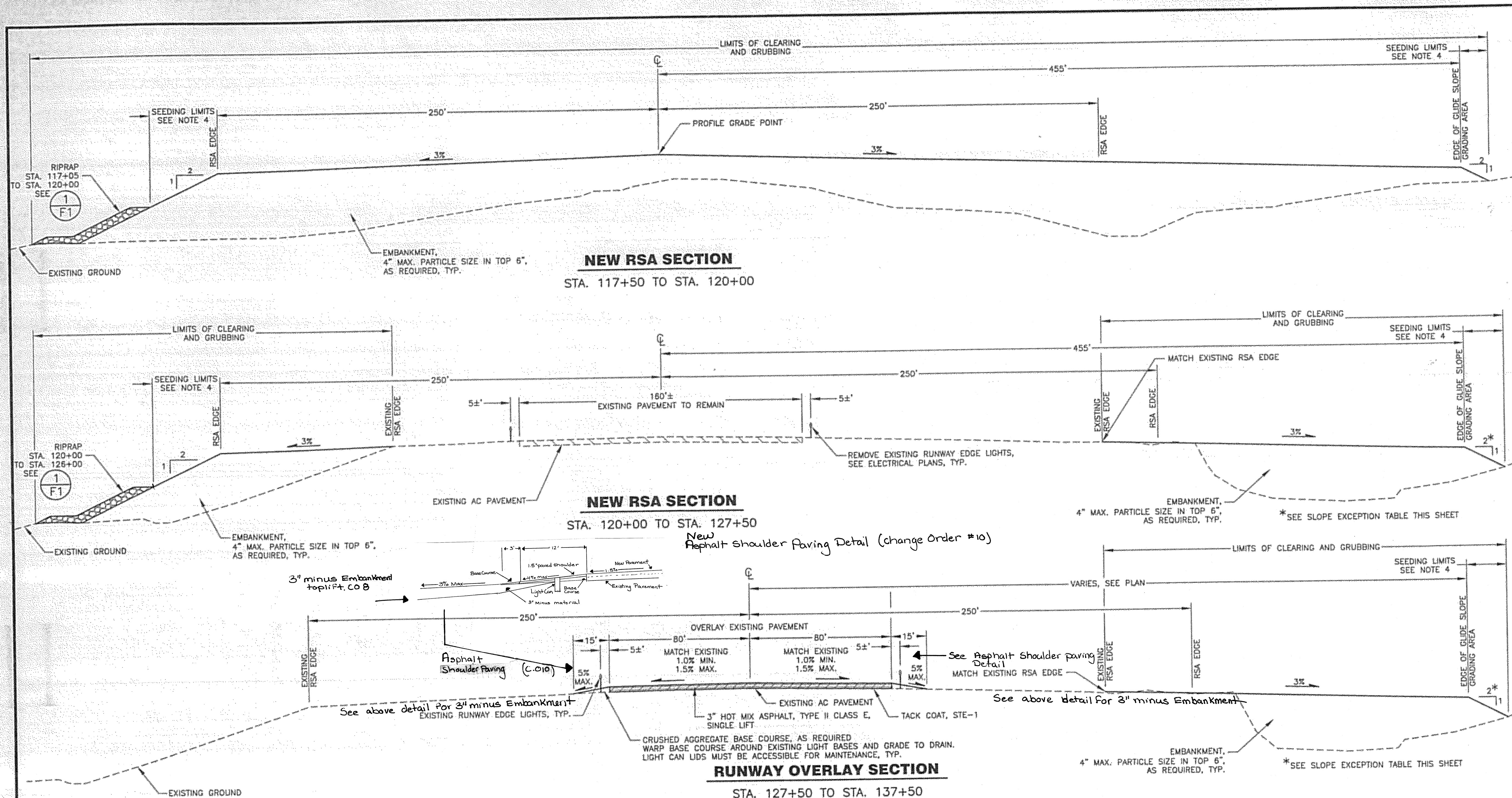
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

SAFETY PLAN DETAILS

PROJECT DESIGNATION

AIP NO. 3-02-0144-1606

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
A11	131



TYPICAL SECTION NOTES:

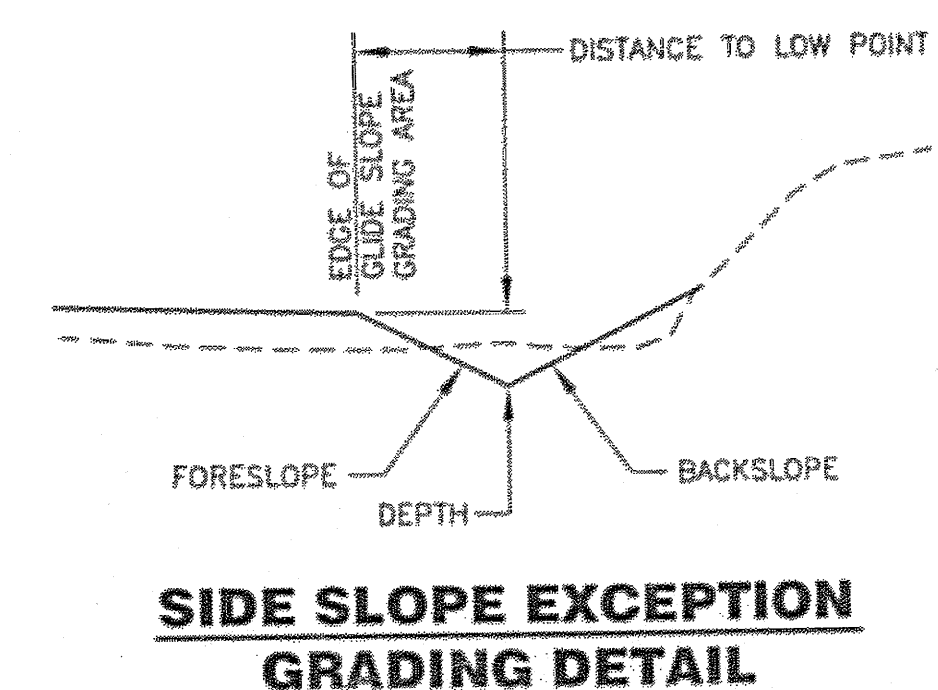
- COLD PLANE EXISTING PAVEMENT 2-INCHES BELOW EXISTING GRADE IN CRACKED AND DISTRESSED AREAS, AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL FIELD DETERMINE THE PAVEMENT MILLING WIDTH AND LENGTH.
- SEAL EXISTING CRACKS PRIOR TO PAVEMENT OVERLAY AS DIRECTED BY THE ENGINEER.
- PROVIDE TACK COAT BETWEEN ALL LIFTS AND LAYERS OF HOT MIX ASPHALT PAVEMENT.
- SEED SOIL EMBANKMENT SIDE SLOPES. DO NOT SEED ROCK SIDE SLOPES. THE ENGINEER WILL DIRECT THE LIMITS REQUIRED FOR THIS WORK.
- REGRADE AND SEED ALL AREAS DISTURBED BY CONSTRUCTION
- PLACE ORGANIC MATTER (PEAT, ORGANIC SILT, SOD) ON CUT AND FILL SLOPES, MAXIMUM THICKNESS OF 1 FT OR AS DIRECTED BY THE ENGINEER. DO NOT PLACE ORGANIC MATTER ON EMBANKMENT SLOPES BELOW THE HTL ELEVATION (19.40 FT) OR WITHIN 4 VERTICAL FT OF PROPOSED FINISHED GRADE.

SIDE SLOPE EXCEPTION TABLE				
STATION	FORESLOPE	DISTANCE TO LOW POINT (FT)	BACKSLOPE	DEPTH (FT)
124+00	5:1	17	-	-
124+50	15:1	49	-	-
125+00	33:1	93	-	-
125+50	33:1	78	-	-
126+00	50:1	75	2:1	-
126+50	54:1	90	-	-
127+00	1.5:1	2.3	1.5:1	5
127+50	1.5:1	2.3	1.5:1	1.2
128+00	1.5:1	2.3	1.5:1	1.6
128+50	1.5:1	2	2.3:1	0.8
131+00	4:1	14.8	-	-
131+50	6:1	25	-	-

TABLE NOTES:

- PROVIDE SMOOTH GRADE TRANSITIONS BETWEEN STATIONS.
- GRADE TO DRAIN AS INDICATED IN PLAN VIEW ON SHEET E1.

SIDE SLOPE EXCEPTION TABLE				
STATION	FORESLOPE	DISTANCE TO LOW POINT (FT)	BACKSLOPE	DEPTH (FT)
132+00	11:1	43.7	-	-
132+50	20:1	69	-	-
133+00	26:1	86	-	-
133+50	36:1	117	-	-
134+00	33:1	115	-	-
134+50	55:1	116	-	-
135+00	55:1	110	-	-
135+50	38:1	33	-	-
136+00	-	-	2:1	1.7
136+50	-	-	2:1	2.1
137+00	-	-	2:1	1.3
137+50	-	-	15:1	-



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
I:\823400\Draws\C\Sheets\B01.dwg
Wed, 04/Oct/06 08:38AM bpaddock
TAB: B01

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

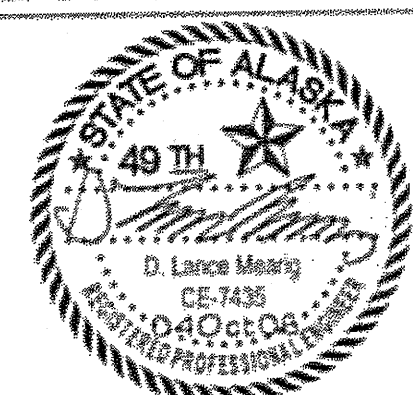
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
RUNWAY SAFETY AREA EXPANSION
& RUNWAY OVERLAY
PROJECT NO. 68306

TYPICAL SECTIONS

PREPARED BY: USKH INC.

CHECKED BY: DLM



DESIGNED BY: EJC

DRAWN BY: WJP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

**TYPICAL
SECTIONS**

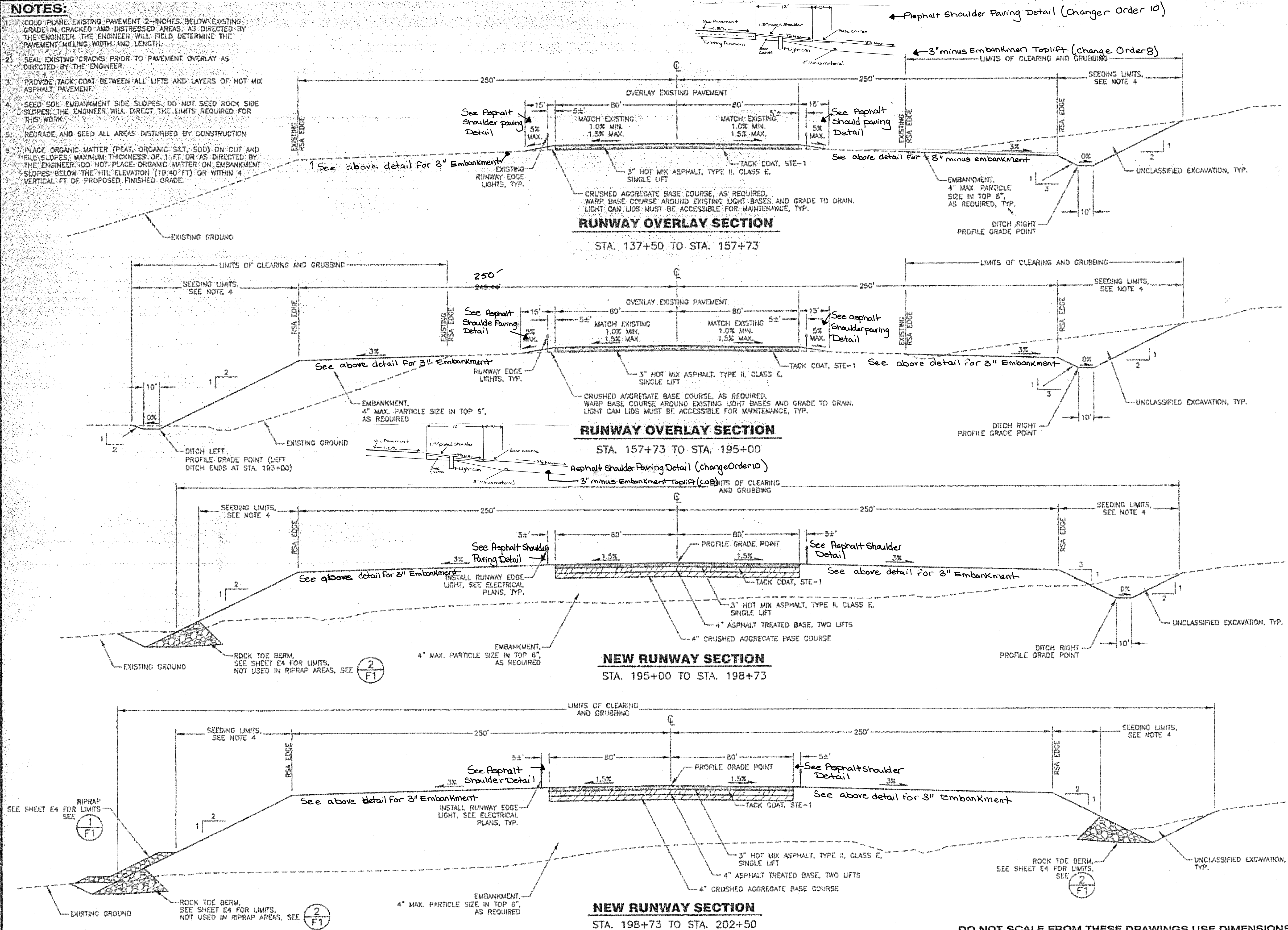
PROJECT DESIGNATION

AIP NO. 3-02-0144-1606

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B1	131

NOTES:

1. COLD PLANE EXISTING PAVEMENT 2-INCHES BELOW EXISTING GRADE IN CRACKED AND DISTRESSED AREAS, AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL FIELD DETERMINE THE PAVEMENT MILLING WIDTH AND LENGTH.
2. SEAL EXISTING CRACKS PRIOR TO PAVEMENT OVERLAY AS DIRECTED BY THE ENGINEER.
3. PROVIDE TACK COAT BETWEEN ALL LIFTS AND LAYERS OF HOT MIX ASPHALT PAVEMENT.
4. SEED SOIL EMBANKMENT SIDE SLOPES. DO NOT SEED ROCK SIDE SLOPES. THE ENGINEER WILL DIRECT THE LIMITS REQUIRED FOR THIS WORK.
5. REGRADE AND SEED ALL AREAS DISTURBED BY CONSTRUCTION.
6. PLACE ORGANIC MATTER (PEAT, ORGANIC SILT, SOD) ON CUT AND FILL SLOPES, MAXIMUM THICKNESS OF 1 FT. OR AS DIRECTED BY THE ENGINEER. DO NOT PLACE ORGANIC MATTER ON EMBANKMENT SLOPES BELOW THE HTL ELEVATION (19.40 FT) OR WITHIN 4 VERTICAL FT OF PROPOSED FINISHED GRADE.



PATH:
I:\823400\Drawings\Sheets\B02.dwg
Wed, 04/Oct/06 08:38AM bpaddock
TAB: B02

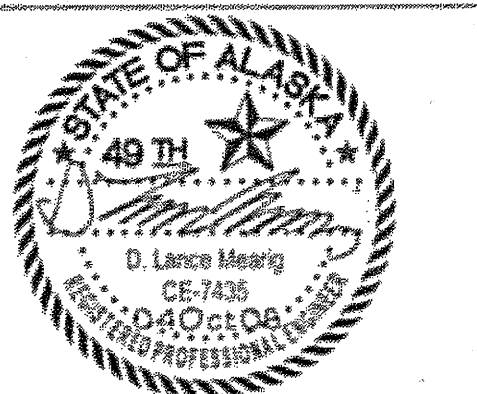
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
RUNWAY SAFETY AREA EXPANSION
& RUNWAY OVERLAY
PROJECT NO. 68306

TYPICAL SECTIONS

PREPARED BY: USKH INC.

CHECKED BY: DLM



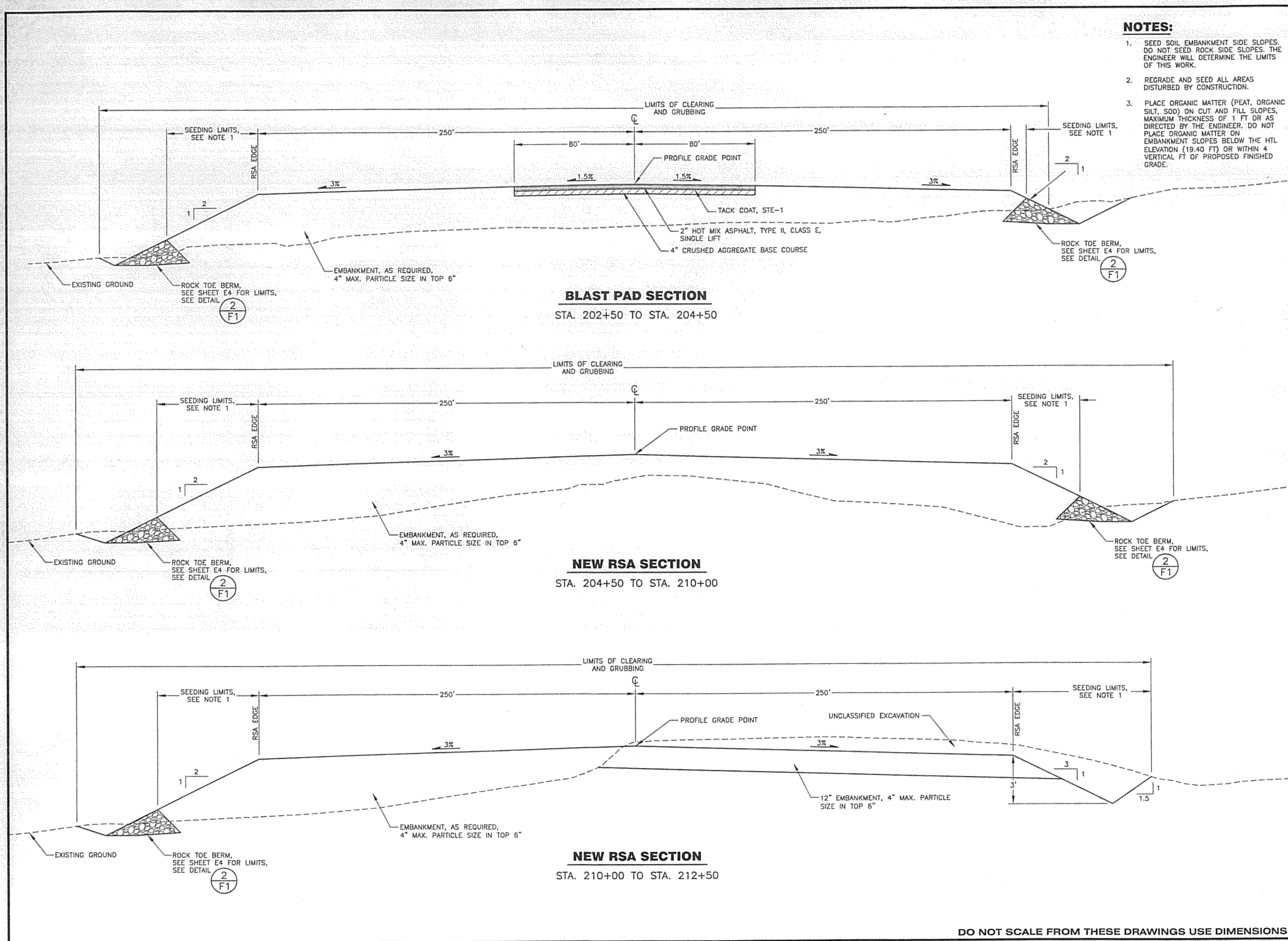
DESIGNED BY: EJC

DRAWN BY: WJP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

TYPICAL SECTIONS

PROJECT DESIGNATION	
AIP NO. 3-02-0144-1606	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B2	131



- NOTES:**
1. SEED SOIL EMBANKMENT SIDE SLOPES. DO NOT SEED ROCK SIDE SLOPES. THE ENGINEER WILL DETERMINE THE LIMITS OF THIS WORK.
 2. REGRADE AND SEED ALL AREAS DISTURBED BY CONSTRUCTION.
 3. PLACE ORGANIC MATTER (PEAT, ORGANIC SILT, SOD) ON CUT AND FILL SLOPES, MAXIMUM THICKNESS OF 1 FT OR AS DIRECTED BY THE ENGINEER. DO NOT PLACE ORGANIC MATTER ON EMBANKMENT SLOPES BELOW THE HTL ELEVATION (19.40 FT) OR WITHIN 4 VERTICAL FT OF PROPOSED FINISHED GRADE.

PATH:
I:\B23400\Draws\C\Sheets\B03.dwg

Wed, 04/Oct/06 08:38AM bpaddock
TAB: B03

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
RUNWAY SAFETY AREA EXPANSION
& RUNWAY OVERLAY
PROJECT NO. 68306

TYPICAL SECTIONS

PREPARED BY: USKH INC.

CHECKED BY: DLM

DESIGNED BY: EJG

DRAWN BY: WJP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

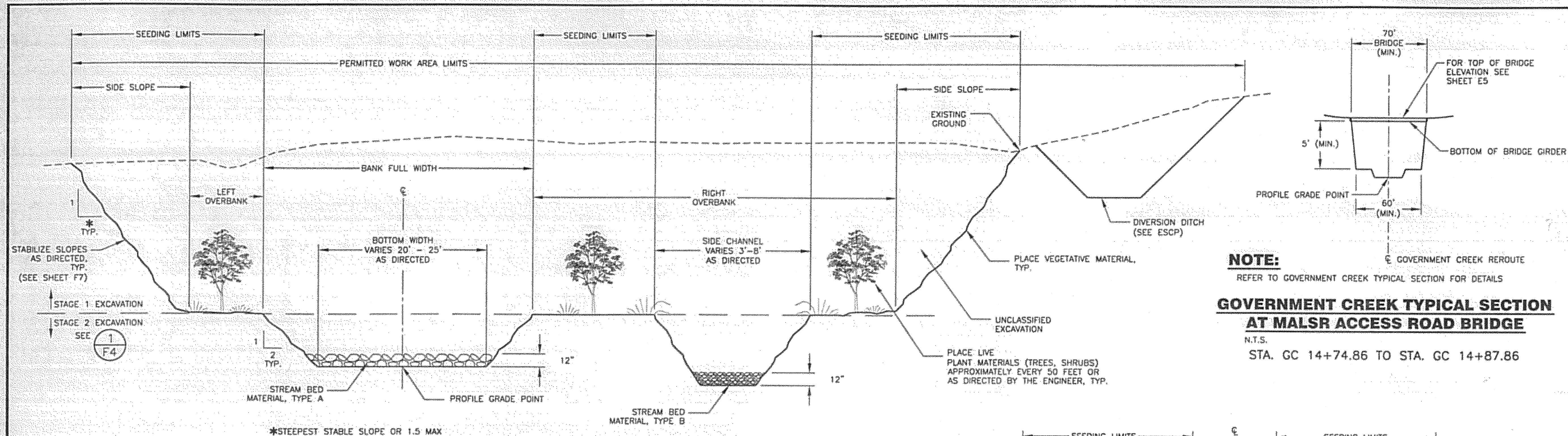
TYPICAL SECTIONS

PROJECT DESIGNATION:
AIP NO. 3-02-0144-1606

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
B3	131

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

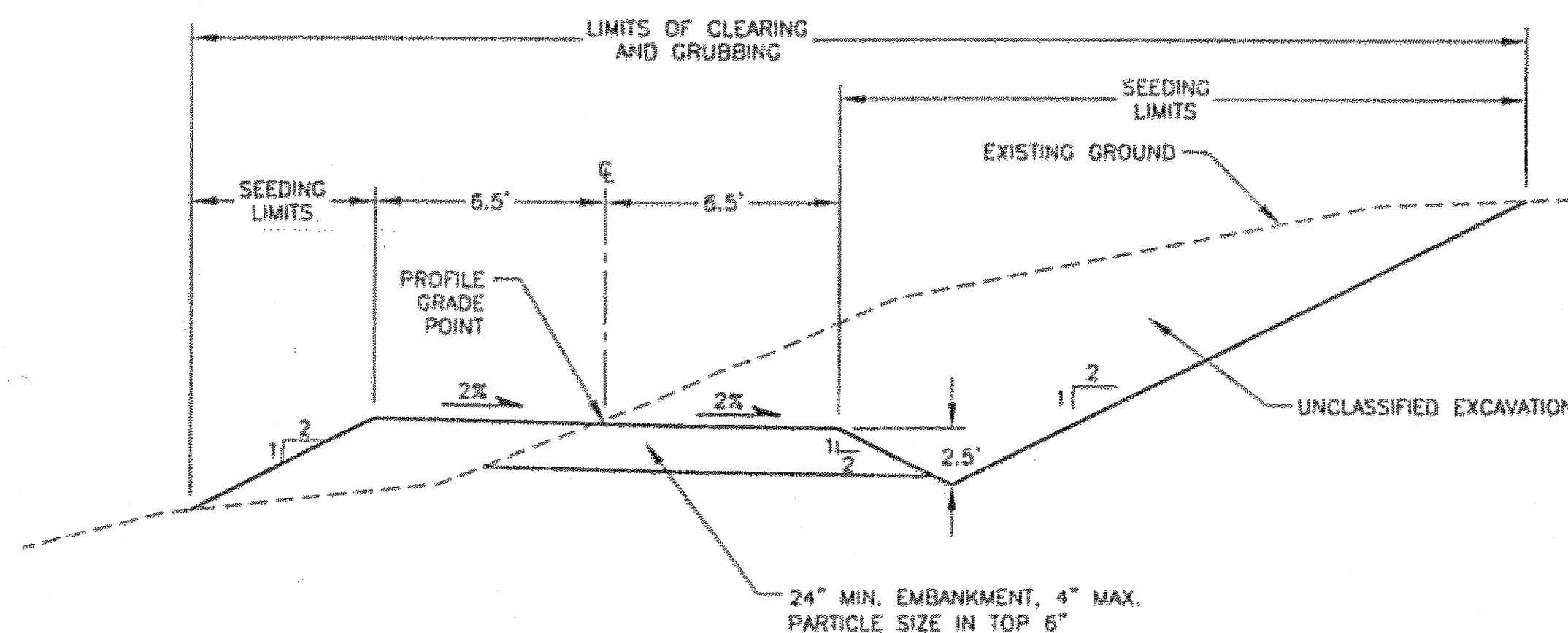


GOVERNMENT CREEK TYPICAL SECTION

N.T.S.
STA. GC 1+00 TO STA. GC 14+74.86
STA. GC 14+87.86 TO STA. GC 15+50

NOTES:

1. TYPICAL SECTIONS FOR GOVERNMENT CREEK AND NORTH TRIBUTARY ARE APPROXIMATE AND SUBJECT TO FIELD REVISION BY THE ENGINEER.
2. SEE SHEETS E6-E8 AND F4-F6 FOR DETAILS.
3. FOR ESTUARY, SEE SHEET E14.
3. PLACE ORGANIC MATTER (PEAT, ORGANIC SILT, SOD) ON CUT AND FILL SLOPES, MAXIMUM THICKNESS OF 1 FT OR AS DIRECTED BY THE ENGINEER.
4. DO NOT PLACE ORGANIC MATTER ON EMBANKMENT SLOPES BELOW THE HTL ELEVATION (19.40 FT) OR WITHIN 4 VERTICAL FT OF PROPOSED FINISHED GRADE.

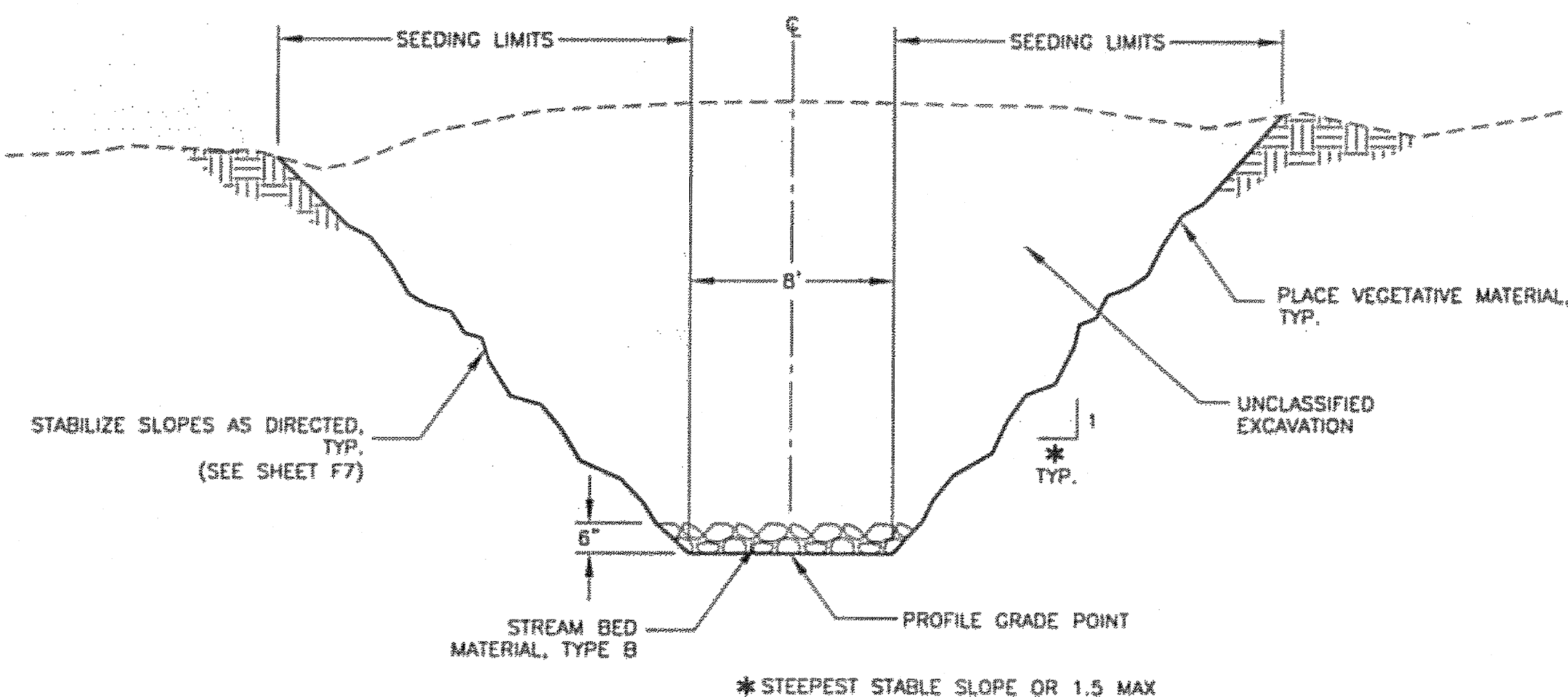


MALSR ACCESS ROAD TYPICAL SECTION

N.T.S. STA. M 1+00 TO STA. M 15+80.64

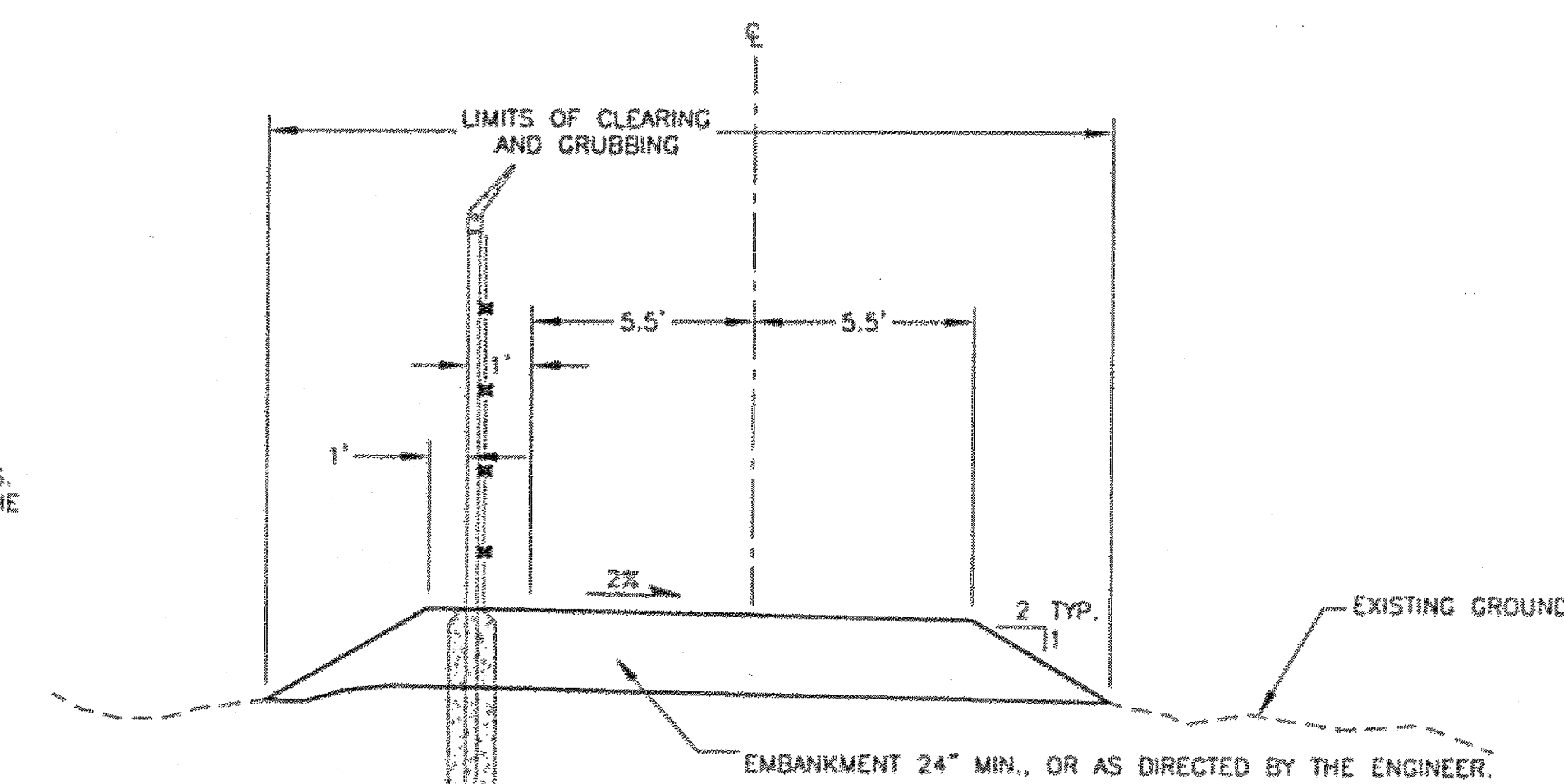
NOTES:

1. SEED SOIL EMBANKMENT SIDE SLOPES. DO NOT SEED ROCK SIDE SLOPES. THE ENGINEER WILL DETERMINE THE LIMITS OF THIS WORK.
2. REGRADE AND SEED ALL AREAS DISTURBED BY CONSTRUCTION.



NORTH TRIBUTARY TYPICAL SECTION

N.T.S. STA. NT 1+00 TO STA. NT 11+29.19



PERIMETER ACCESS ROAD TYPICAL SECTION

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: I:\823400\Draws\C\Sheets\B04.dwg
Wed: 04/Oct/06 09:27AM schoudhury
TAB: B04

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

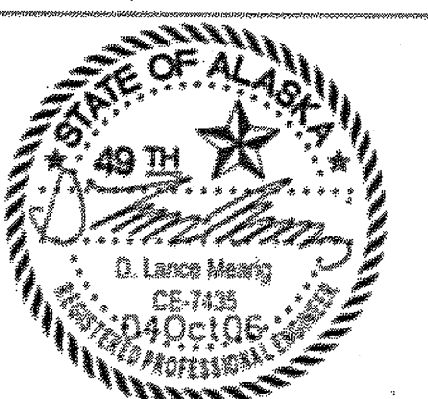
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
RUNWAY SAFETY AREA EXPANSION
& RUNWAY OVERLAY
PROJECT NO. 68306

TYPICAL SECTIONS

PREPARED BY: USKH INC.

CHECKED BY: DLM



DESIGNED BY: EJG

DRAWN BY: WJP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SOUTHEAST REGION

TYPICAL SECTIONS

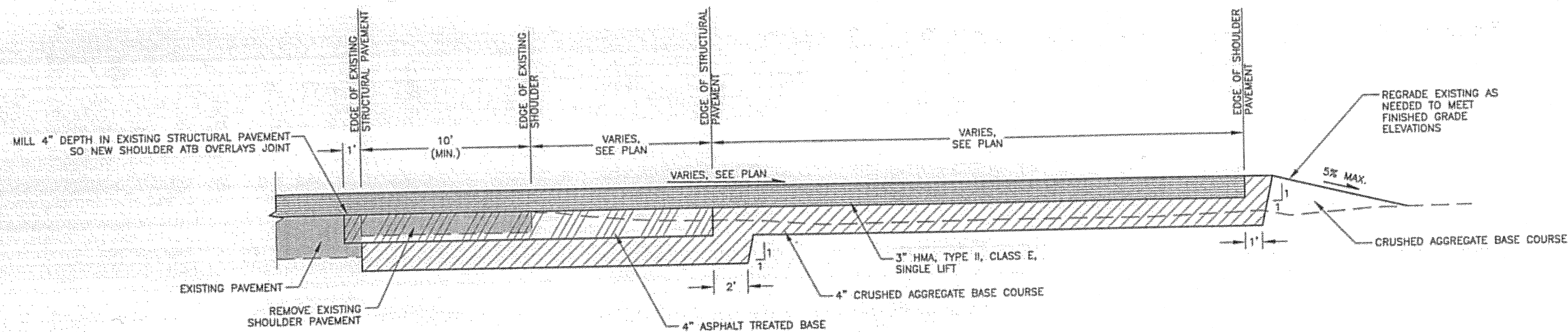
PROJECT DESIGNATION

AIP NO. 3-02-0144-1606

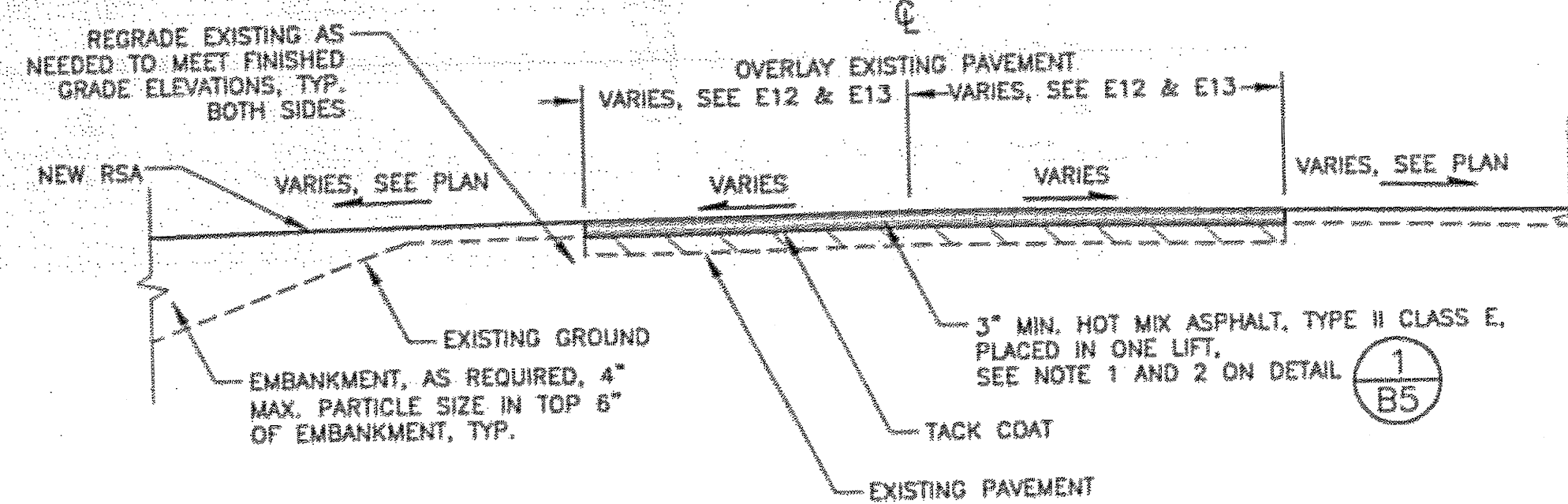
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B4	131

SECTION NOTES:

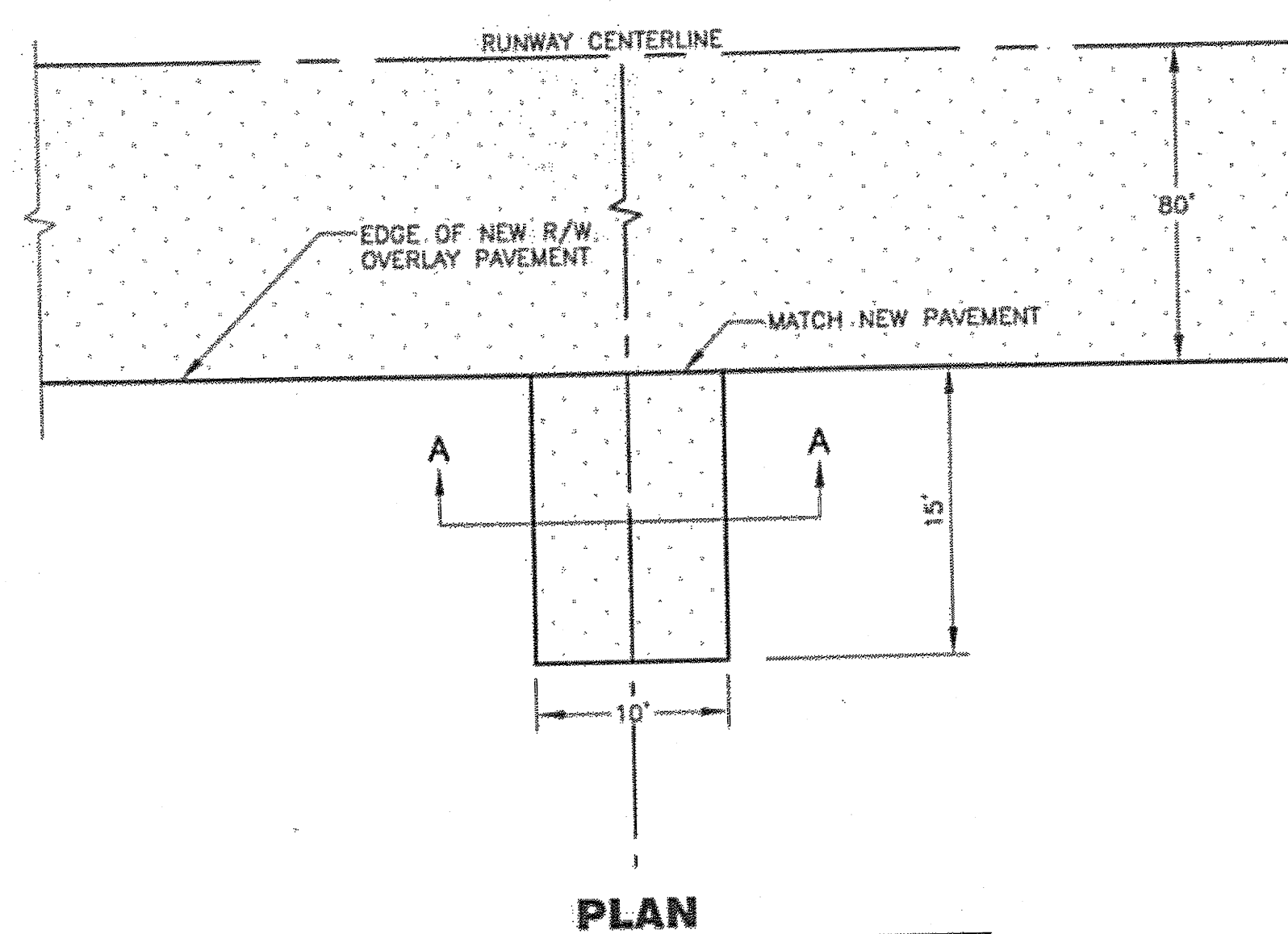
1. SEE GRADING PLANS ON SHEETS E12 AND E13 FOR OVERLAY WIDTHS.
2. COLD PLANE EXISTING PAVEMENT AS NECESSARY TO PLACE A MINIMUM OF 3" HMA AT THE FINISH GRADE ELEVATIONS IN GRADING PLANS.
3. PLACE TACK COAT ON EXISTING PAVEMENT BEFORE OVERLAYING.



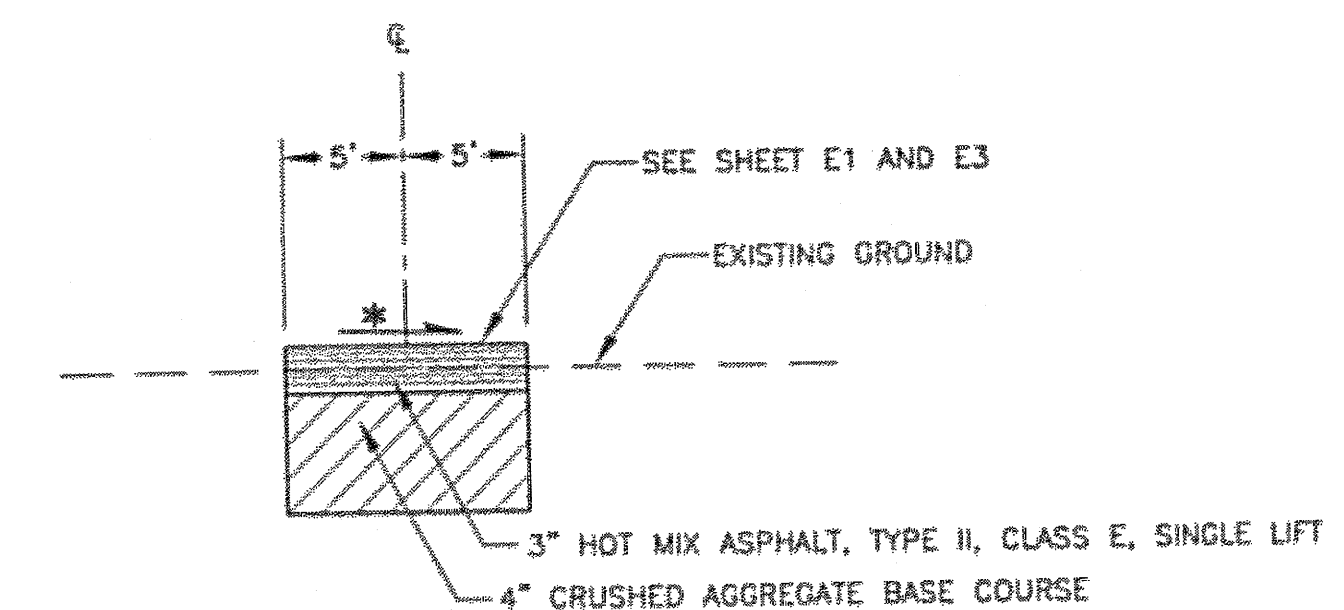
1 T/W A NEW PAVEMENT SECTION
B5 N.T.S.



2 T/W TYPICAL SECTION
B5 N.T.S.



PLAN



SECTION A-A

* SEE PLAN AND PROFILE SHEETS FOR SLOPE DIRECTION

3 FOD REMOVAL PAD
B5 N.T.S.

NOTE:

1. SEE SHEETS E1 AND E3 FOR LOCATION AND FINISHED GRADE PAVEMENT ELEVATIONS.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
t:\B23400\Draws\C\Sheets\B05.dwg
Wed, 04/Oct/05 08:38AM bpaddock
TAB: B05

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

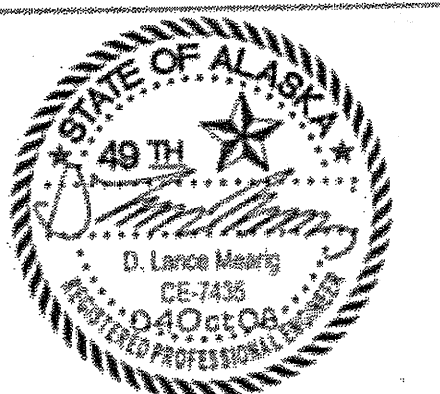
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
RUNWAY SAFETY AREA EXPANSION
& RUNWAY OVERLAY
PROJECT NO. 68306

TYPICAL SECTIONS

PREPARED BY: USKH INC.

CHECKED BY: DLM



DESIGNED BY: EJC

DRAWN BY: WJP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

TYPICAL
SECTIONS

PROJECT DESIGNATION

AIP NO. 3-02-0144-1606

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B5	131

Estimate of Quantity from Change Order Item

Lewis Reef Road Underpass 68456

Item Number	Pay Item	Pay Unit	Quantity	Change Order
S-146b	Tunnel Liner	Lump Sum	All Required	13
S-146c	Additional Fireproofing	Lump Sum	All Required	14
S-146d	Tunnel Heating	Lump Sum	All Required	14
S-146e	Tunnel Waterline	Lump Sum	All Required	16
S-146f	Tunnel Fireproofing Repair	Lump Sum	All Required	15
S-146g	Temporary Tunnel Power	Per Month	6	17
S-146h	Tunnel Lighting Conduitlet T's	Lump Sum	All Required	17
S-146i	Tunnel Water Intrusion Cost	Lump Sum	All Required	14
S-146j	Lewis Reef Rd Tree Removal	Lump Sum	All Required	22
S-146k	Tunnel SWPPP Item Changes	Lump Sum	All Required	24

Airport Overlay & Saftey Area Upgrade 68306

Item Number	Pay Item	Pay Unit	Quantity	Change Order
P-157f-1	Silt Boom	Per 100 Section	31	2
L-110t-b	4-Inch Conduit	Linear Foot	6844	1
D-701f	End Section with 24" Grates	Each	7	11
D-701e	Corrugated Polyethylene Pipe 36"	Linear Foot	520	11
P-157f-a	Temporary Seeding	Pound	827.7	6
T-901b	Seeding	Pound	1716	6
P-157i-a	North Trib Diversion Pipe	Lump Sum	All Required	7
L-135c-1	Localizer Kick Boards	Lump Sum	All Required	9
P-152g	3" Minus Embankment Toplift	Cubic Yards	59845.6	8
L-135n	Electrical Transfer Switches	Lump Sum	All Required	4
L-135c-2	Localizer Platform Counterpoise	Lump Sum	All Required	9
D-701h	53" Galvanized Steel Pipe Arch	Lump Sum	All Required	11
L-100a-2	Adjust Light Can Elevation	Lump Sum	All Required	23
P-401a-1	Asphalt Concrete for shoulders	Ton	2050.44	10
P-401c-2	Asphalt Cement for shoulder paving	Ton	106.62	10
L-100a-1	Relocate Existing High Intensity Runway Edge and Threshold Lights L-868 (Light Can Upgrade)	Lump Sum	All Required	3
L-132e-1	Relocate Approach Lighting Aids Malsf RW11 Covert to MALSR L-868 (Light Can Upgrade)	Lump Sum	All Required	3
L-132a-a	MALSR Approach Light Breakaway Couplings	Lump Sum	All Required	5
L-135a-1	Install FAA Equipment RVR	Lump Sum	All Required	4
L-110n-1	Adjust Existing Electrical MH	Each	6	23
L-132a-2	Install ELB 14 and EF 16 Modified Towers	Lump Sum	All Required	5
D-701g	36" Security Gate	Each	2	11
L-108i	Guard Wire	Linear Foot	8199	4
G-130i	Partnering Meeting	Lump Sum	All Required	12
L-100l-1	Raise Taxiway Signs	Lump Sum	All Required	23
L-144c-1	Additional Communication Cable 25 Pair	Lump Sum	All Required	4
L-100a-1	Raise Taxiway Lights	Lump Sum	All Required	23
L-107e-1	New Wind Cones	Lump Sum	All Required	4
P-151g	Additional Tree Removal	Per Day	6	18
P-620c-1	Additional Runway Painting and Striping	Lump Sum	All Required	19
L-132a-4	16" Base Plates for 29 MALSR	Lump Sum	All Required	5
P-620c-2	Re-paint Runway and Taxiway Markings	Lump Sum	All Required	19
L-110t-c	Conduit Concrete Protection Taxiway A	Lump Sum	All Required	4
L-132a-3	Flasher Cabinet Tees	Lump Sum	All Required	5
50-17a	Electrical Impact Settlement	Lump Sum	All Required	25
P-152h	Embankment fill ILS Area	Lump Sum	All Required	21
L-132a-5	Install Approach Lighting Aids, MALSR 29	Lump Sum	All Required	26

KPU Electrical

Item Number	Pay Item	Pay Unit	Quantity	Change Order
L-110t-a	4 Inch PE Conduit	Linear Foot	3970	1

Final quantity pending for 3" Embankment on Change Order 8

ESTIMATING FACTORS

ITEM NO.	ITEM	FACTOR/QUANTITY
P-151d	CLEARING & GRUBBING	66 ACRES
P-209b	CRUSHED AGGREGATE BASE COURSE	150 LB/CF
P-320b	ASPHALT TREATED BASE	152 LB/CF
P-401a	HOT MIX ASPHALT TYPE II, CLASS E	152 LB/CF
P-401c	ASPHALT CEMENT [PG 64-28]	5.5% OF P-401a
P-603g	TACK COAT, STE-1	0.06 GAL./SQ YD

NOTE:

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

ESTIMATE OF QUANTITIES

ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY				
			PROJECT NO.: 68306	PROJECT NO.: 68456	PROJECT NO.: 68290	PROJECT NO.: 67874, 67875	TOTAL
L-143e	PRIMARY CABLE, #1/0 AWG, 15 KV, TAPE SHIELD	LINEAR FOOT	1958	2000			2000
L-144a	COMMUNICATIONS PEDESTAL, NEW	EACH	1				1
L-144b	COMMUNICATIONS PEDESTAL, REMOVE	EACH	2				1
L-144c	COMMUNICATIONS CABLE, 25 PAIR, NO. 22 AWG	LINEAR FOOT	8321	9100			9100
L-144d	COMMUNICATIONS CABLE, 100 PAIR, NO. 22 AWG	LINEAR FOOT	1006	1100			1100
L-145a	STANDY GENERATOR AND ENCLOSURE	LUMP SUM	ALL REQUIRED				ALL REQUIRED
P-151d	CLEARING & GRUBBING	LUMP SUM	ALL REQUIRED				ALL REQUIRED
P-151f	TREE REMOVAL	ACRE	1				1
P-152a	UNCLASSIFIED EXCAVATION	CUBIC YARD	735,062	766,000		2,680	737,682
P-152f	EMBANKMENT	CUBIC YARD	1,522	8,694	1,375	4,000	15,254
P-152j(1)	STREAMBED MATERIAL, TYPE A	CUBIC YARD	800	7	1200		1200
P-152j(2)	STREAMBED MATERIAL, TYPE B	CUBIC YARD	800	7	850		850
P-152j(3)	STREAMBED MATERIAL, TYPE C	CUBIC YARD	741	8	1800		1500
P-157a	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
P-157b	TEMPORARY EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
P-157e	TEMPORARY CHECK DAMS	EACH	181	40			40
P-157f	SILT BOOM Deleted by C.O 2	LUMP SUM	ALL REQUIRED				ALL REQUIRED
P-157g	TEMPORARY SETTLING POND, TYPE I	EACH	1	7			7
P-157h	TEMPORARY SETTLING POND, TYPE II	EACH	18	3			3
P-157i	INTERCEPTION/DIVERSION DITCH	LINEAR FOOT	6745	5500			5500
P-157j	SILT FENCE	LINEAR FOOT	28457	21,000			21,000
P-157k	TEMPORARY SEEDING	ACRE	10.11	8			9
P-160a	EXCAVATION AND DISPOSAL OF PAVEMENT (AC)	SQUARE YARD	3502	6	2000		2000
P-162a	PAVEMENT COLD PLANING	SQUARE FOOT	29,294	21	6000		5000
P-165a	REMOVAL AND DISPOSAL OF EXISTING STRUCTURES	LUMP SUM	ALL REQUIRED				ALL REQUIRED
P-180a(2)	RIPRAP, CLASS II	CUBIC YARD	872	02	1800		1800
P-180a(4)	RIPRAP, CLASS IV	CUBIC YARD	9026	23	14,000		14,000
P-209b	CRUSHED AGGREGATE BASE COURSE	TON	10993	41	7000		7000
P-320b	ASPHALT TREATED BASE	TON	3221	83	3200		3200
P-401a	HOT MIX ASPHALT TYPE II, CLASS E	TON	26420	85	26,500		26,500
P-401b	HOT MIX ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED				ALL REQUIRED
P-401c	ASPHALT CEMENT, PG 64-28	TON	1546	67	1500		1500
P-603a	TACK COAT, STE-1	TON	50	8	40		40
P-605a	JOINT SEALING FILLER	LINEAR FOOT	30,000	15,000			15,000
P-620c	RUNWAY AND TAXIWAY PAINTING	LUMP SUM	ALL REQUIRED				ALL REQUIRED
P-630a	PAVEMENT GROOVING	SQUARE YARD	141,932	133,500			133,500
P-640c	RELOCATE SEGMENTED CIRCLE	LUMP SUM	ALL REQUIRED				ALL REQUIRED
P-661a	STANDARD SIGN	SQUARE FOOT	504	112			112
P-670a	HAZARD MARKER BARRIER	EACH	85	40			40
P-690a(1)	LOG STEPS	EACH		11			11
P-690a(2)	BOULDER STEPS	EACH	24	6	15		15
P-690a(3)	BEDROCK STEPS	EACH		14			14
P-690b	UNANCHORED LOG, TYPE I	EACH	31	15			15
P-690c	UNANCHORED LOG, TYPE II	EACH	25	15			15
P-690d	ANCHORED LOG-BOULDER INSTALLATION	EACH		9			9
P-690e	CONSTRUCTED STREAM CONNECTION	LUMP SUM	ALL REQUIRED				ALL REQUIRED
P-690f	FISH BARRIER	LUMP SUM	ALL REQUIRED				ALL REQUIRED
P-690g	RELOCATE BOULDERS	LUMP SUM	ALL REQUIRED				ALL REQUIRED
S-145a	BRIDGE	LUMP SUM	ALL REQUIRED				ALL REQUIRED
S-146a	TUNNEL	LUMP SUM		ALL REQUIRED			ALL REQUIRED
T-901a	SEEDING	ACRE	1.631	83			83
T-902a	LIVE PLANTS	EACH		185			185
T-908c	MULCHING	ACRE	11.741	83			63
T-908d	TACKIFIER	ACRE	7.411	83			63
T-908e	QUARRY FLOOR STABILIZATION	LUMP SUM	ALL REQUIRED				ALL REQUIRED
T-911a	SLOPE RECLAMATION	LUMP SUM	ALL REQUIRED				ALL REQUIRED
T-911b	COIR LOGS	LINEAR FOOT	2480	0	5100		5100
T-911c	ROLLED MATTING	SQUARE YARD	7045	13	7000		7500

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: I:\823400\Draws\C\Sheets\C01_C2.dwg

Thu, 09/Nov/06 11:28AM bpddeck
TAB: C02

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

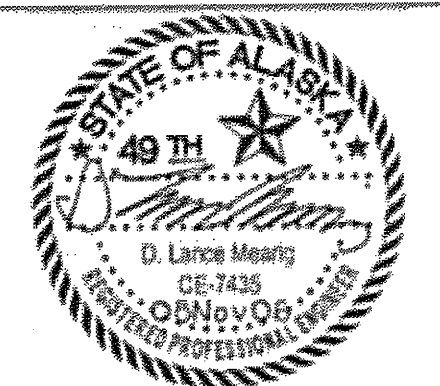
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
RUNWAY SAFETY AREA EXPANSION
& RUNWAY OVERLAY
PROJECT NO. 68306

ESTIMATE OF QUANTITIES

PREPARED BY: USKH INC.

CHECKED BY: DLM



DESIGNED BY: SC

DRAWN BY: WJP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGIONESTIMATE OF
QUANTITIES

PROJECT DESIGNATION

AIP NO. 3-02-0144-1606

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
C2	131

CULVERT INSTALLATION SUMMARY										
PIPE	INLET			OUTLET			18" CPP	24" CPP	GRADE	REMARKS
	STATION	OFFSET	APPROX. INVERT	STATION	OFFSET	APPROX. INVERT				
P-1	168+43	860 RT.	165.6	168+81	861 RT.	165.0		40	1.6%	PERIMETER ROAD
P-2	173+21	984 RT.	176.4	173+34	953 RT.	174.7		35	4.8%	PERIMETER ROAD
P-3	175+76	991 RT.	174.4	175+27	953 RT.	174.0		40	0.1%	PERIMETER ROAD
P-4	181+45	985 RT.	200.1	181+33	954 RT.	199.7		35	1.4%	PERIMETER ROAD
P-5	184+99	981 RT.	183.5	185+23	953 RT.	179.9		40	9.7%	PERIMETER ROAD
P-6	186+01	982 RT.	178.1	186+29	951 RT.	176.3		45	4.4%	PERIMETER ROAD
P-7	197+50	300 RT.	73.1	197+90	316 RT.	72.7		15	1.7%	PERIMETER ROAD 36" CPP 80'
P-8	M 1+85	1504 23 RT.	59.6	M 1+85	350 23 RT.	56.2	15200'	46	7.6%	36" CPP STA: 213 ~ or m 1+40
P-9	CA 1+75	31 RT.	28.2	CA 1+75	13 LT.	24.9		48	7.3%	
P-10a	M 15+20			M 15+20			38'			Did Not Install P-10 @ Plan Location
P-10	M 15+80			M 15+80						18" CPP w/ OME Pad and building installation
P-8a	212+62	80 RT		212+62	80 LT		160'			36" CPP
P-12	142+80	262.7 RT		141+80	262.7 RT		40'			36" CPP
P-13	142+20	267.3 RT		141+80	267.3 RT		40'			36" CPP
P-1a	136+65			136+47			33'			24" CPP

CULVERT INSTALLATION NOTES:

1. PLACE ADDITIONAL CULVERTS UNDER PERIMETER ROAD AS DIRECTED BY THE ENGINEER.
2. TEMPORARY CULVERT INSTALLATIONS ARE REQUIRED AS PART OF THIS PROJECT'S EROSION AND SEDIMENT CONTROL PLAN (SEE ESCP SHEETS). THE CONTRACTOR SHALL REMOVE TEMPORARY CULVERTS AS DIRECTED BY THE ENGINEER.
3. THE INLET AND OUTLET SHALL BE ADJUSTED AT SITE TO MEET THE MINIMUM COVER REQUIREMENTS.

P-6a	167+90	21'	PERIMETER Rd.
P-6b	168+00	24.5'	PERIMETER Rd.

REMOVAL AND DISPOSAL OF EXISTING STRUCTURES						
ITEM REMARKS	FROM		TO		LENGTH/ QUANTITY	REMARKS
	STATION	OFFSET	STATION	OFFSET		
WOOD RETAINING WALL	198+30	67 RT.	198+21	107 RT.	42 FT.	REMOVE FROM THE AIRPORT PROPERTY
VEHICULAR BRIDGE	200+53	102 RT.	200+72	153 RT.	1 EACH	REMOVE FROM THE AIRPORT PROPERTY
VEHICULAR BRIDGE	200+84	112 LT.	201+22	123 LT.	1 EACH	REMOVE AND RETURN TO USFS THORN BAY STATION
PEDESTRIAN BRIDGE	201+56	27 RT.	201+91	8 RT.	1 EACH	REMOVE FROM THE AIRPORT PROPERTY
PEDESTRIAN BRIDGE	M 6+14	32 RT.	M 6+72	33 RT.	1 EACH	REMOVE FROM THE AIRPORT PROPERTY

NOTES:

CONTRACTOR TO FIELD VERIFY ALL LOCATIONS AND DIMENSIONS.

SIGN SUMMARY			
PERIMETER SIGN		GATE SIGN	
STATION	OFFSET	STATION	OFFSET
120+00	505 RT.	213+50	93 LT.
125+00	505 RT.	198+91	289 RT.
130+00	505 RT.	197+75	280 RT.
135+00	505 RT.	198+12	432 LT.
170+00	941 RT.		
175+00	941 RT.		
180+00	941 RT.		
185+00	941 RT.		
190+00	941 RT.		
195+00	785 RT.		

FENCE REMOVAL SUMMARY				
FROM		TO		LENGTH (FT.)
STATION	OFFSET	STATION	OFFSET	
116+50	70 RT.	136+68	504 RT.	2287
136+68	326 RT.	136+68	504 RT.	178
166+51	613 RT.	197+89	433 LT.	4158
116+50	63 LT.	126+32	370 LT.	1155
			TOTAL	7778

NEW FENCE SUMMARY				
FROM		TO		LENGTH (FT.)
STATION	OFFSET	STATION	OFFSET	
116+50	70 RT.	116+50	505 RT.	435
116+50	505 RT.	136+68	505 RT.	2018
166+51	613 RT.	169+71	952 RT.	466
169+71	952 RT.	191+48	954 RT.	2177
191+48	954 RT.	195+73	744 RT.	474
195+73	744 RT.	197+75	280 RT.	506
197+99	280 RT.	198+91	316 RT.	106
198+91	316 RT.	198+91	313 RT.	3
198+91	289 RT.	198+91	270 RT.	19
198+91	270 RT.	213+29	270 RT.	1131
213+29	270 RT.	213+50	249 RT.	30
213+50	249 RT.	213+50	69 LT.	318
213+50	93 LT.	213+50	321 LT.	228
213+50	321 LT.	212+45	321 LT.	105
212+45	321 LT.	211+85	270 LT.	79
211+85	270 LT.	198+90	270 LT.	1295
198+90	270 LT.	198+12	353 LT.	114
198+12	353 LT.	198+12	432 LT.	80
116+50	63 LT.	116+50	370 LT.	307
116+50	370 LT.	126+32	370 LT.	982
			TOTAL	10873

LIVE PLANTS	
LOCATION	APPROXIMATE NUMBER OF PLANTS
NEW GOVERNMENT CREEK OVERBANK	75
NEW GOVERNMENT CREEK SIDESLOPES	50
NEW ESTUARY	60
TOTAL	185

PATH: I:\823400\Draws\C\Sheets\001.dwg
Wed, 04/Oct/06 10:56AM bpoddock
TAB: D01

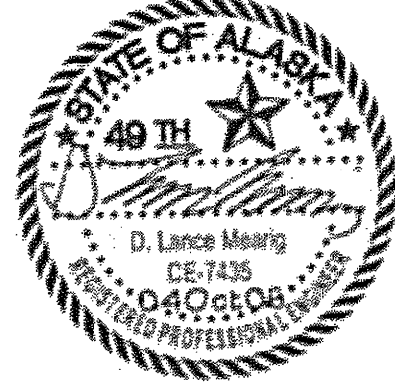
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
RUNWAY SAFETY AREA EXPANSION
& RUNWAY OVERLAY
PROJECT NO. 68306

SUMMARY TABLES

PREPARED BY: USKH INC.

CHECKED BY: DLM



DESIGNED BY: SC

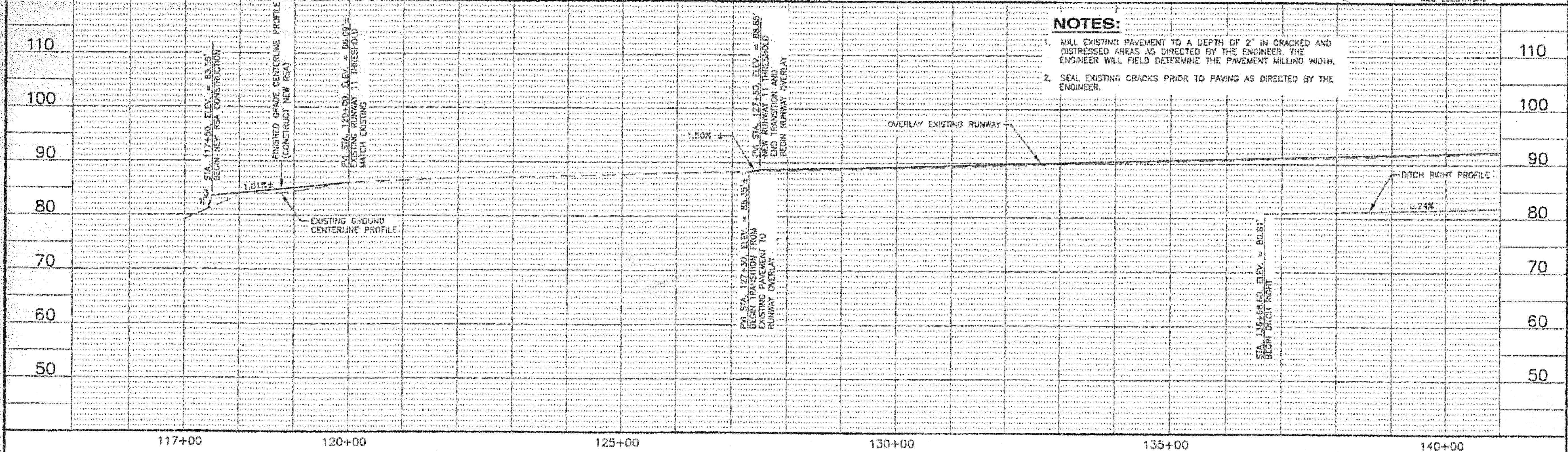
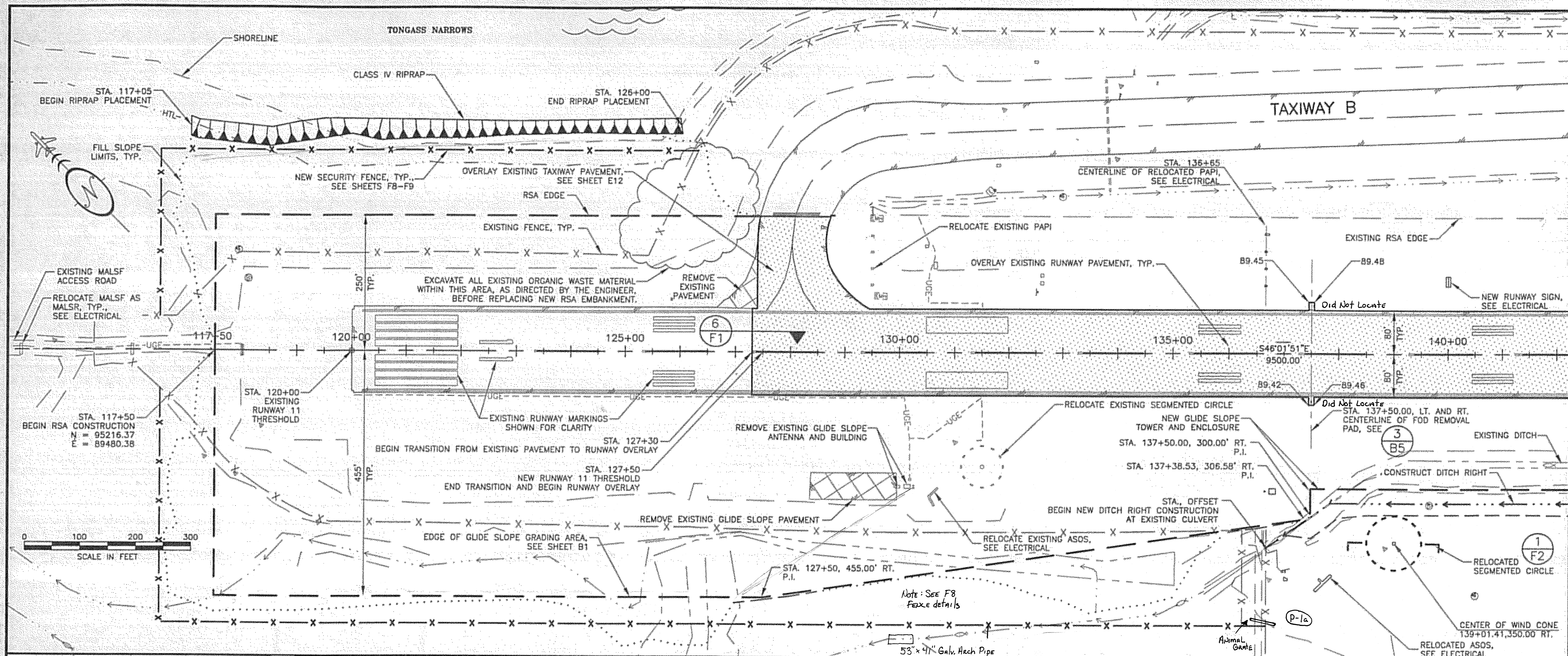
DRAWN BY: WJP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

SUMMARY TABLES

PROJECT DESIGNATION	
AIP NO. 3-02-0144-1606	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
D1	131

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



- NOTES:**
1. MILL EXISTING PAVEMENT TO A DEPTH OF 2" IN CRACKED AND DISTRESSED AREAS AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL FIELD DETERMINE THE PAVEMENT MILLING WIDTH.
 2. SEAL EXISTING CRACKS PRIOR TO PAVING AS DIRECTED BY THE ENGINEER.

PATH: I:\B23400\Drawings\Sheets\ED1.dwg
 Wed, 04/Oct/06 08:39AM bpaddock
 TAB: ED1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
 RUNWAY SAFETY AREA EXPANSION
 & RUNWAY OVERLAY
 PROJECT NO. 68306

PREPARED BY: USKH INC.
 CHECKED BY: DLM

DESIGNED BY: EJC
 DRAWN BY: WJP

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION—SOUTHEAST REGION

**RUNWAY
 PLAN & PROFILE**

PROJECT DESIGNATION
 AIP NO. 3-02-0144-1606

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
E1	131

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS