

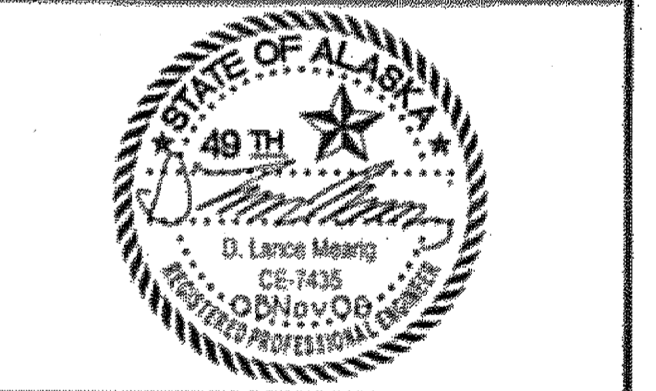
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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

LEWIS REEF ROAD TUNNEL
PROJECT NO. 67858

GRADING & UTILITY PLAN

PREPARED BY: USKH INC.
CHECKED BY: DLM

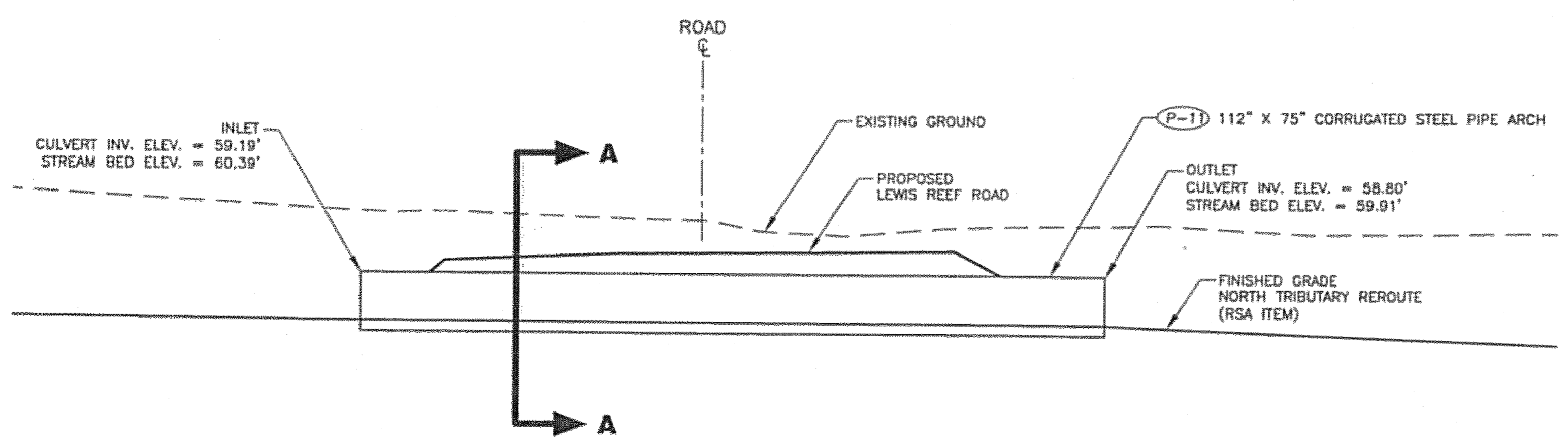


DESIGNED BY: NCL
DRAWN BY: WJP

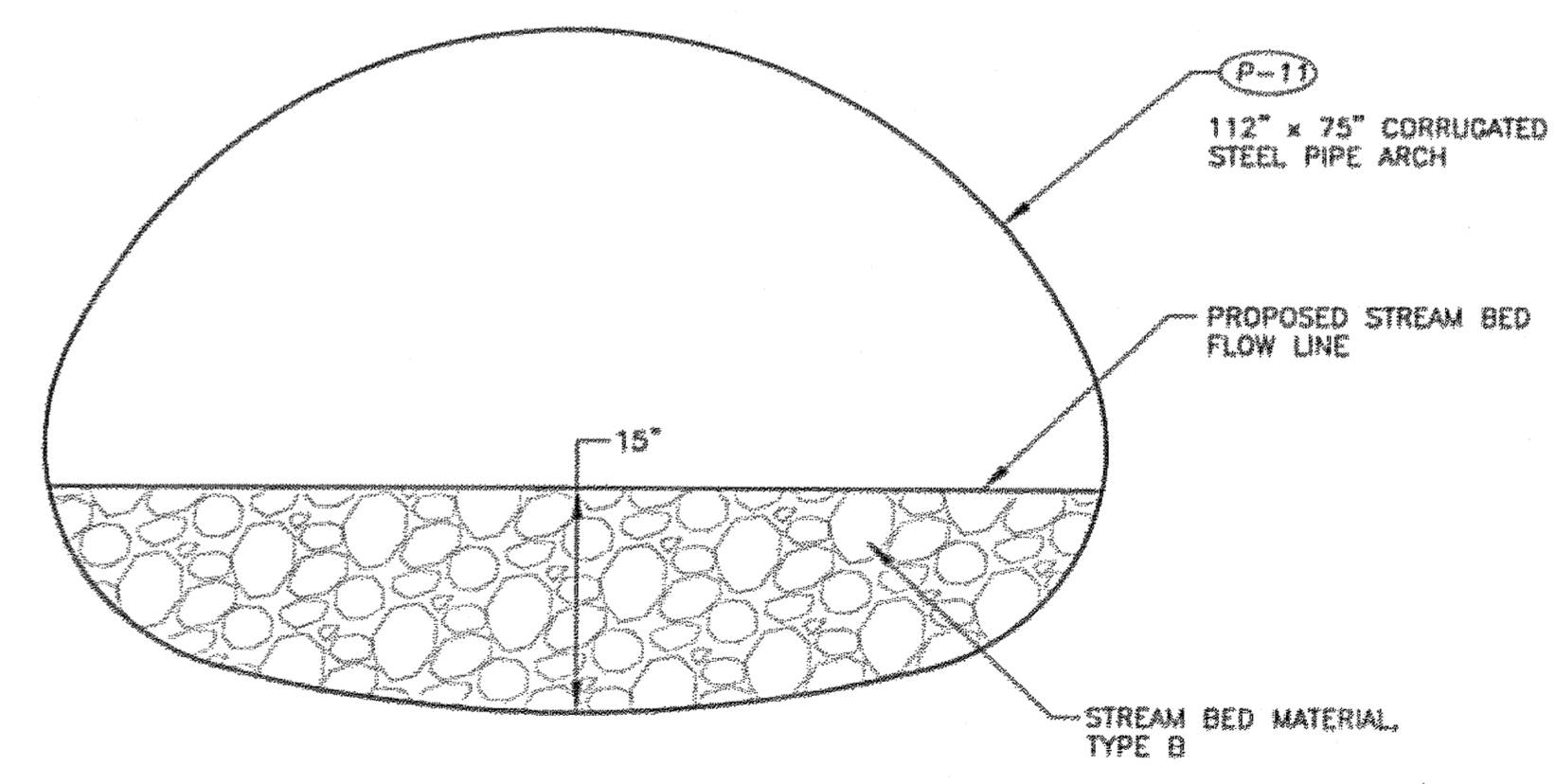
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

GRADING & UTILITY PLAN

PROJECT DESIGNATION	
68456	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L9	131



CULVERT PROFILE



SECTION A-A

P11 NORTH TRIBUTARY CULVERT DETAILS
N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

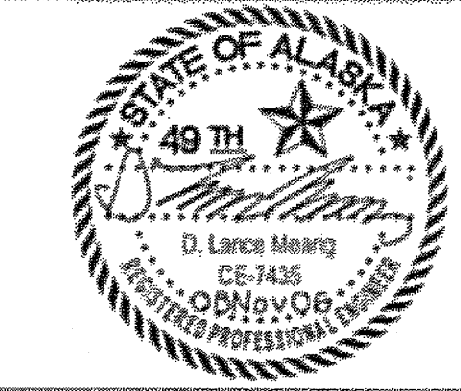
No.	DATE	DESCRIPTION

LEWIS REEF ROAD TUNNEL
 PROJECT NO. 67858

LEWIS REEF ROAD TUNNEL 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

LEWIS REEF ROAD TUNNEL DETAILS

PROJECT DESIGNATION

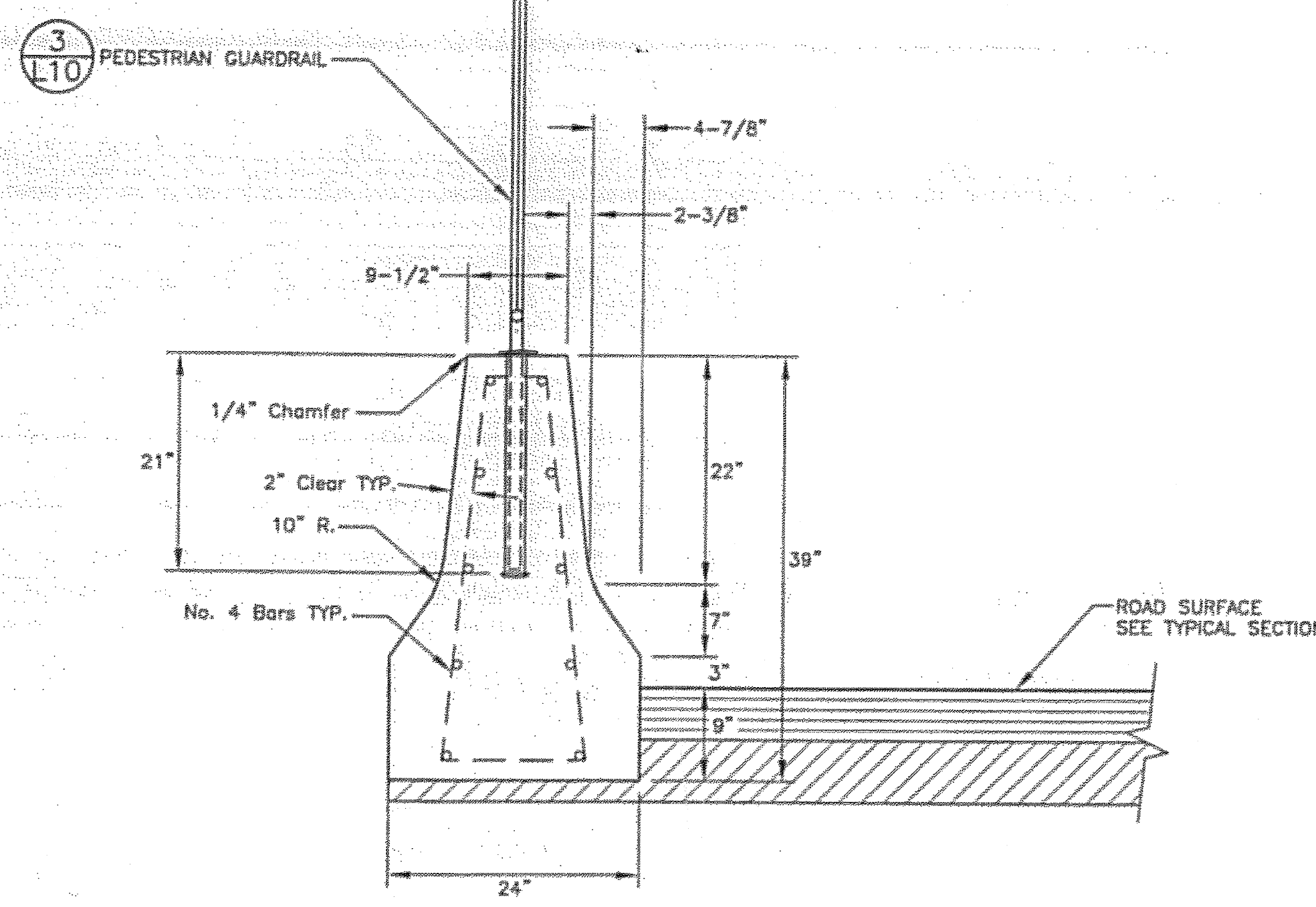
68456

STATE YEAR

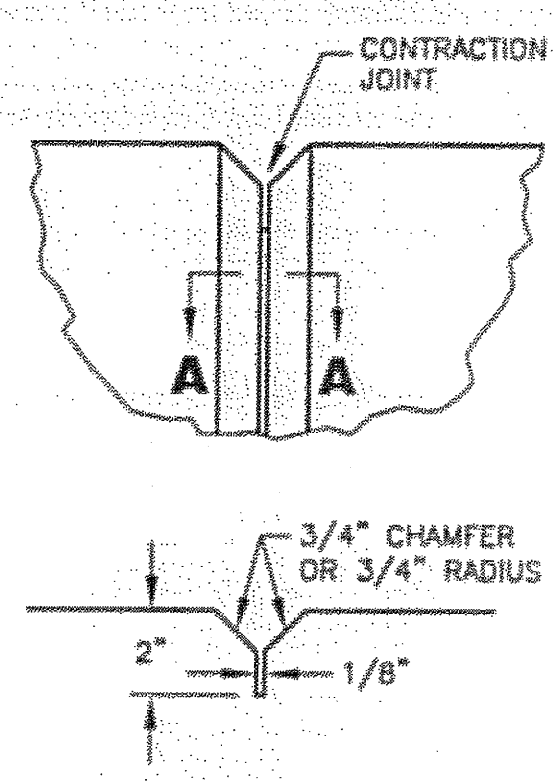
ALASKA 2006

SHEET NUMBER TOTAL SHEETS

L10 131

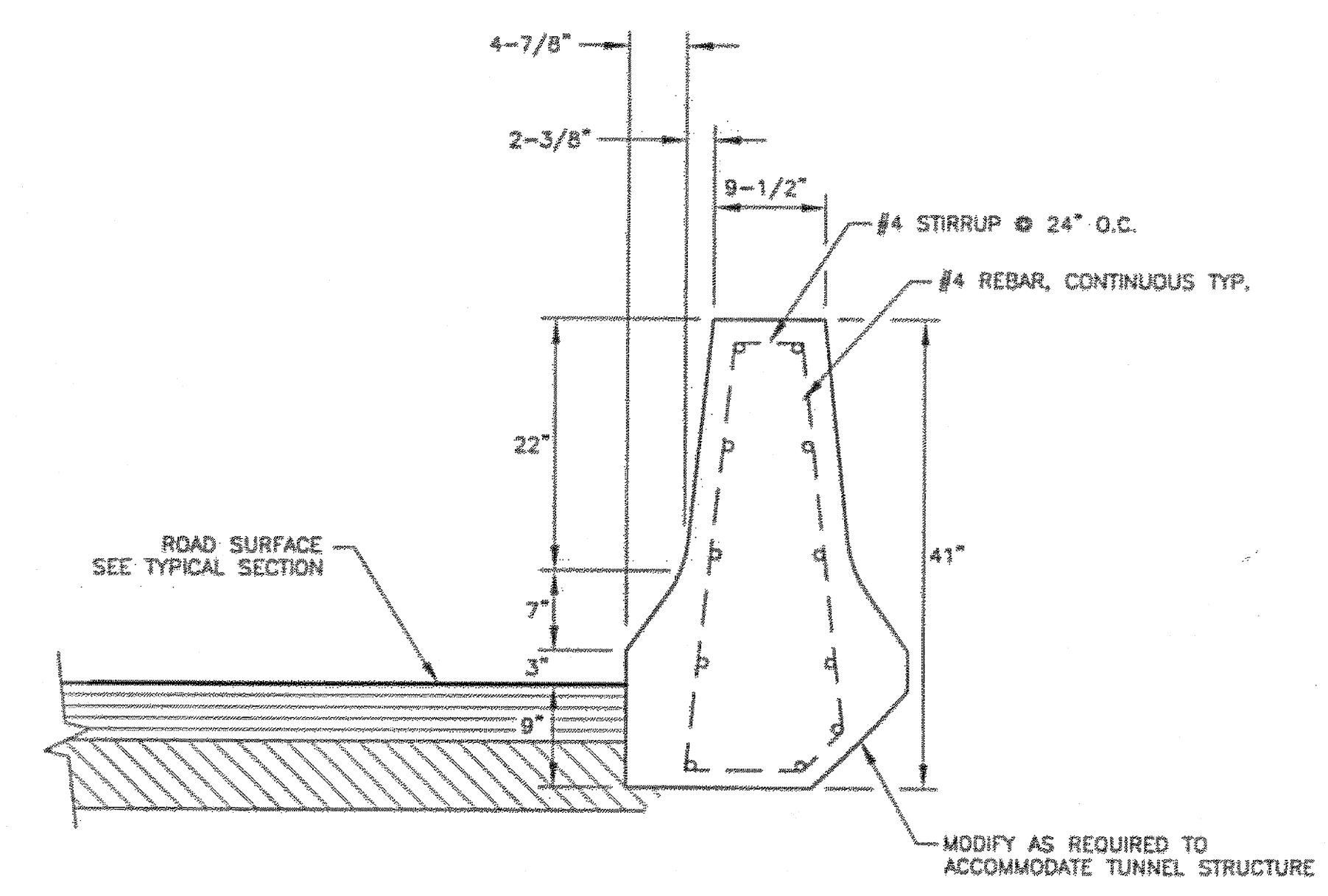


1 LT CONCRETE BARRIER
 L10 N.T.S.

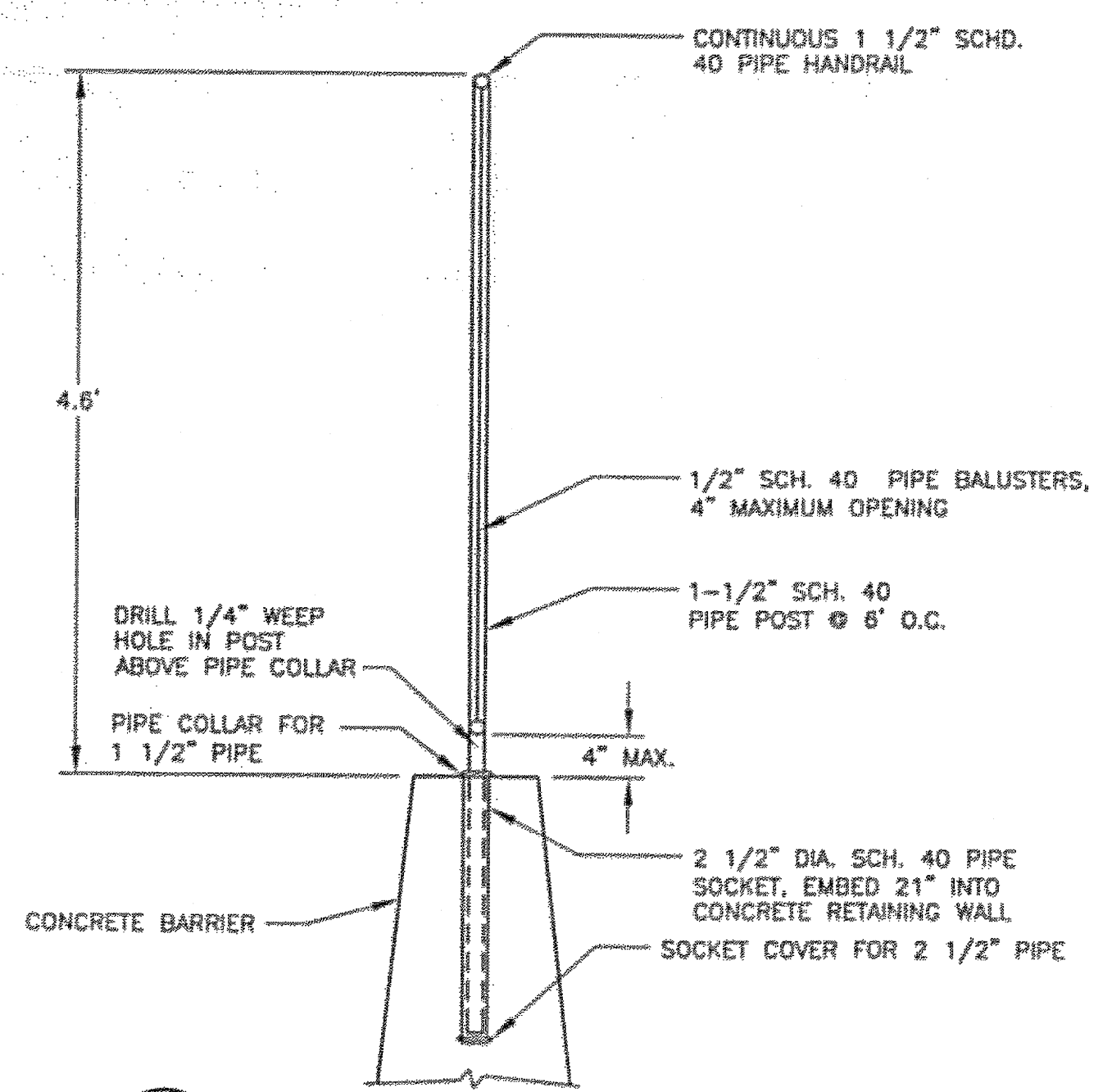


SECTION A-A
CONTRACTION JOINT
 CONTRACTION JOINT SPACING SHALL BE 20'

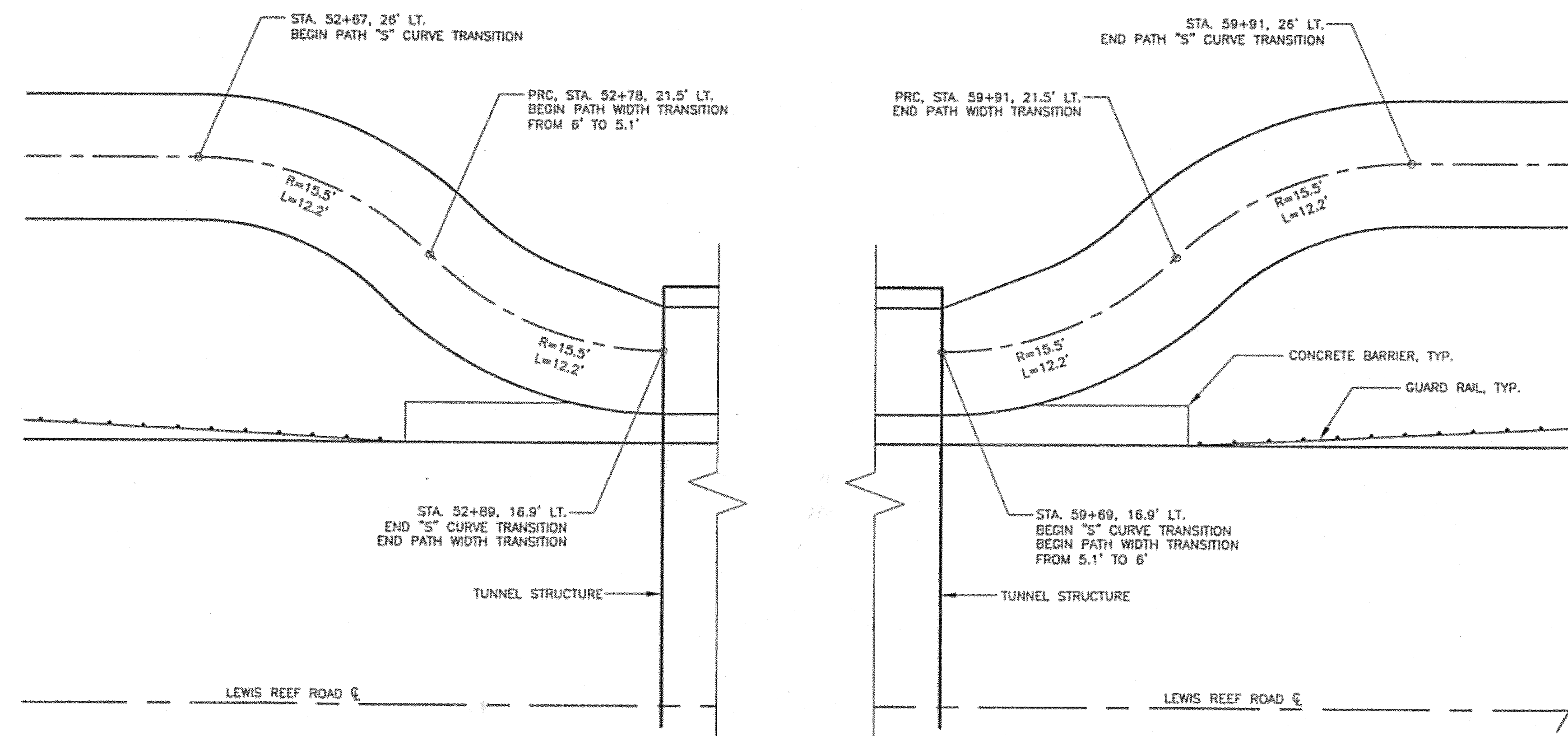
- NOTES:**
1. CONCRETE BARRIER MAY BE CAST-IN-PLACE OR PRECAST.
 2. PRECAST SECTIONS SHALL INCLUDE THE INTERCONNECTION OF INDIVIDUAL SECTIONS PROVIDING LATERAL RESISTANCE EQUIVALENT TO THAT OF THE BARRIER SECTION IT SELF.



2 RT CONCRETE BARRIER
 L10 N.T.S.



3 PEDESTRIAN HANDRAIL DETAIL
 L10 N.T.S.



4 PATH TRANSITION DETAILS
 L10 N.T.S.

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

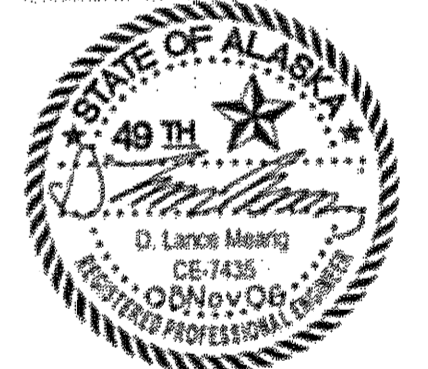
No.	DATE	DESCRIPTION

LEWIS REEF ROAD TUNNEL
 PROJECT NO. 67858

LEWIS REEF ROAD TUNNEL DETAILS

PREPARED BY: USKH INC.

CHECKED BY: GLM



DESIGNED BY: NCL

DRAWN BY: WJP

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

LEWIS REEF ROAD TUNNEL DETAILS

PROJECT DESIGNATION

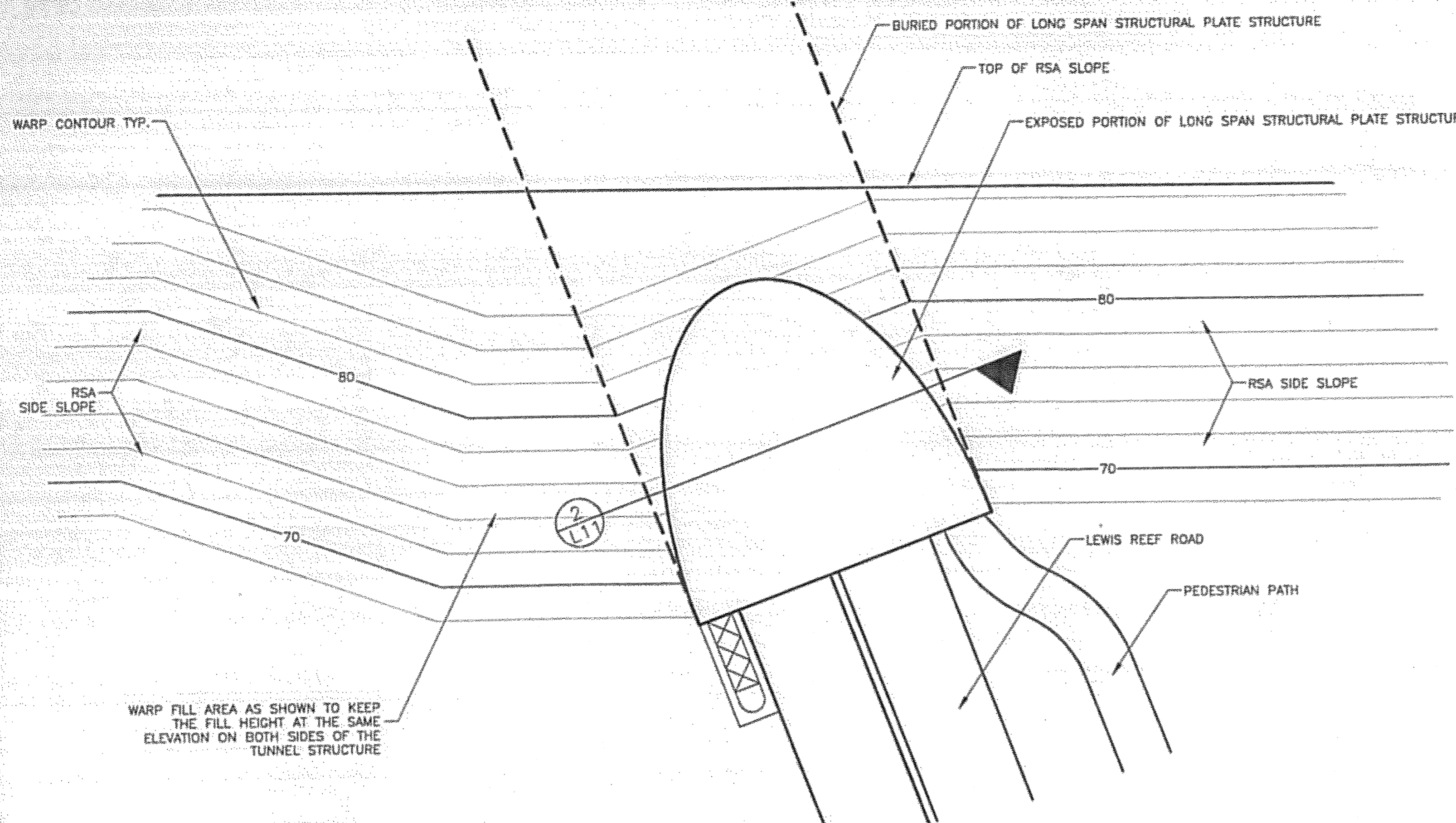
68456

STATE YEAR

ALASKA 2006

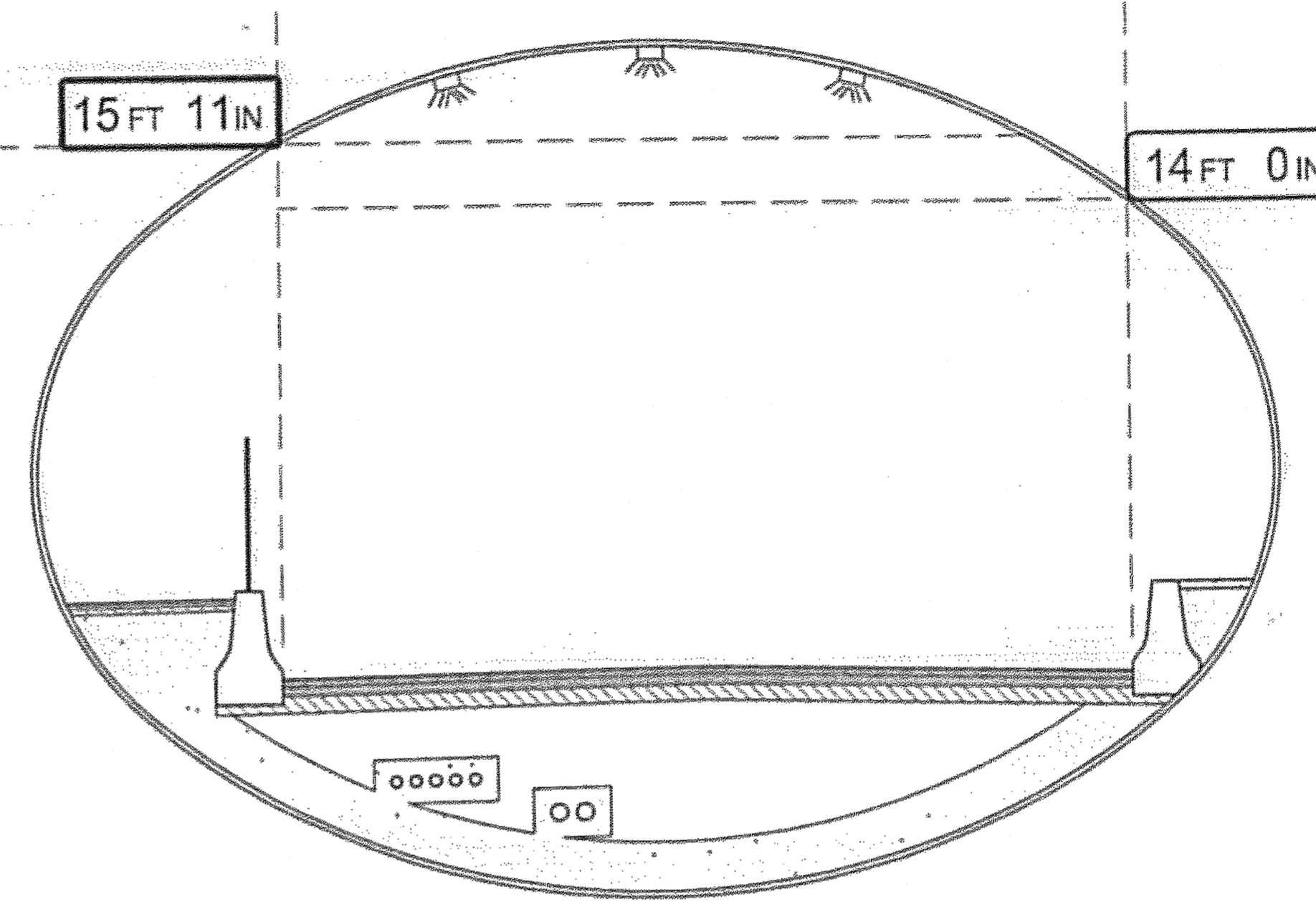
SHEET NUMBER TOTAL SHEETS

L11 131

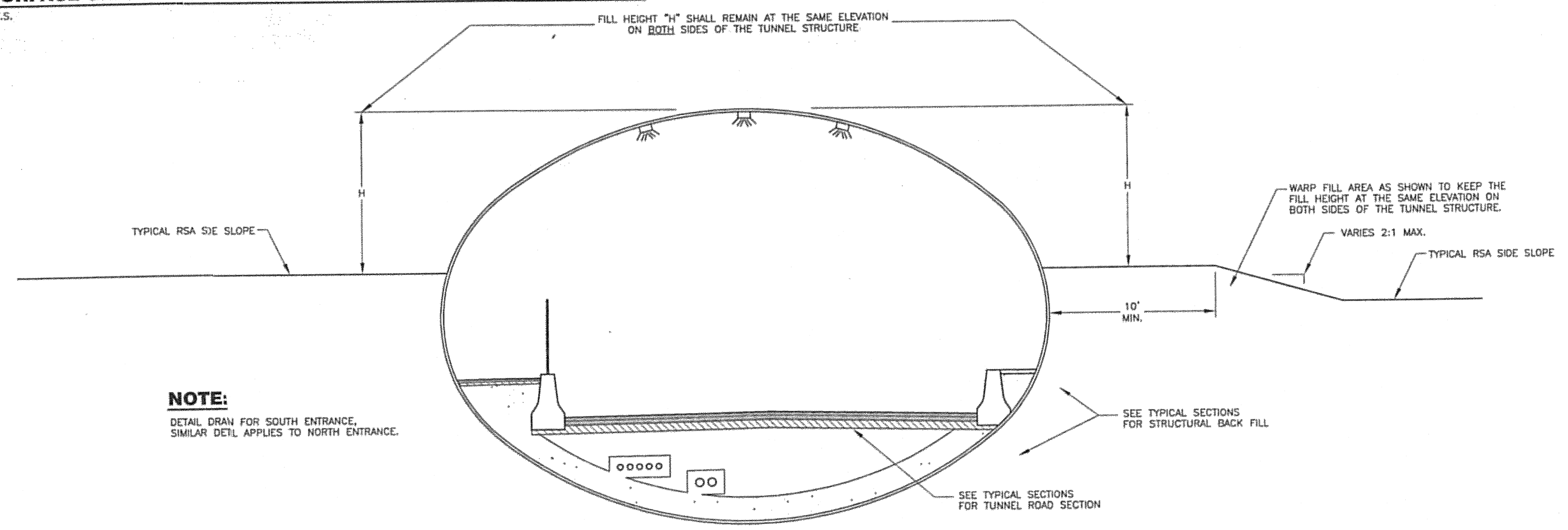


NOTE:
 DETAIL DRAWN FOR SOUTH ENTRANCE, SIMILAR DETAIL APPLIES TO NORTH ENTRANCE.

1 SURFACE GRADING AT TUNNEL STRUCTURE ENDS - PLAN
 L11 N.T.S.



3 SIGN PLACEMENT ON TUNNEL ENDS
 L11 N.T.S.



NOTE:
 DETAIL DRAWN FOR SOUTH ENTRANCE, SIMILAR DETAIL APPLIES TO NORTH ENTRANCE.

2 SURFACE GRADING AT TUNNEL STRUCTURE ENDS - PLAN
 L11 N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

LEWIS REEF ROAD TUNNEL
PROJECT NO. 67858

PREPARED BY: USKH INC.

CHECKED BY: DLM



DESIGNED BY: NCL

DRAWN BY: JRH

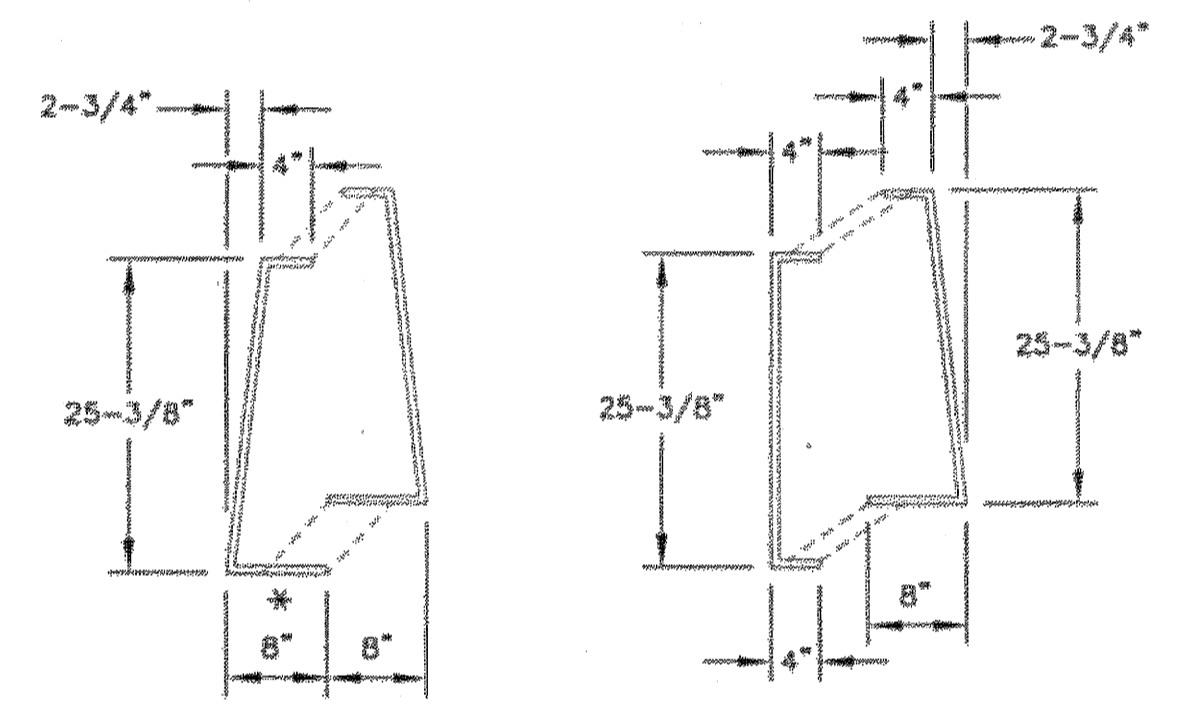
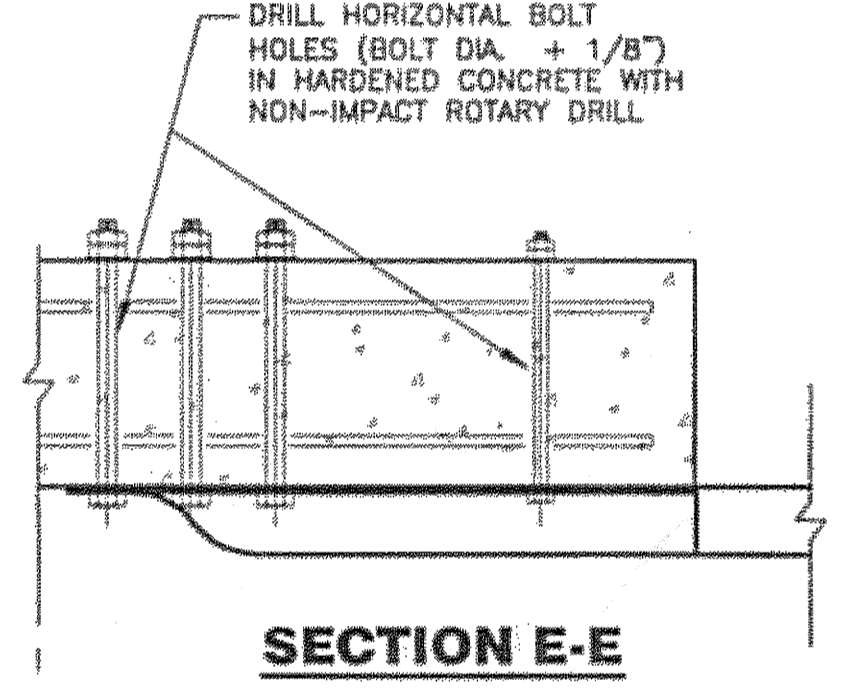
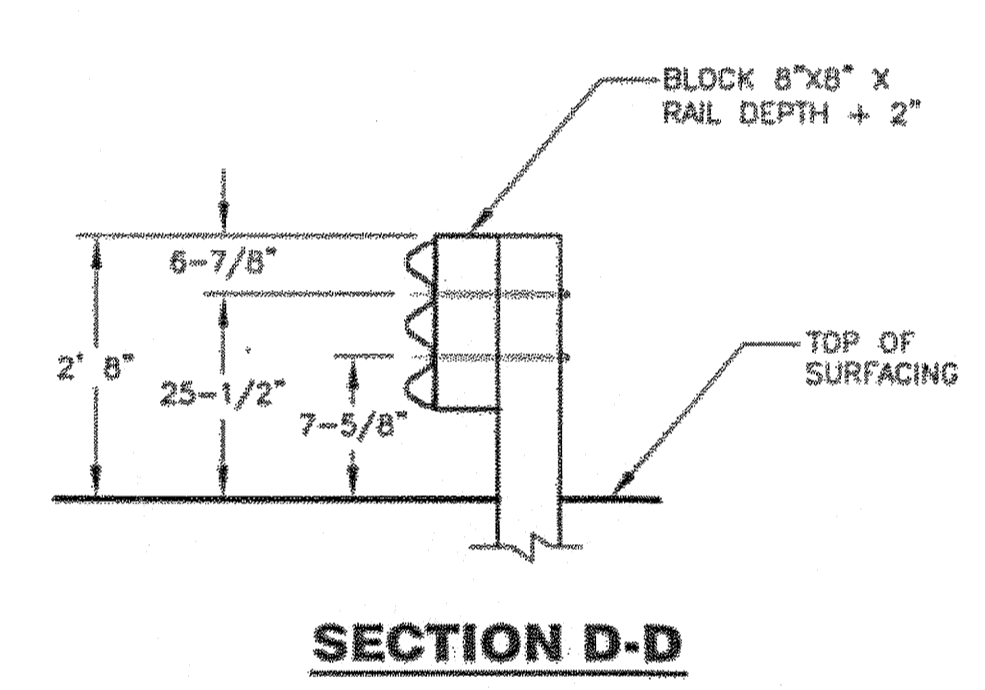
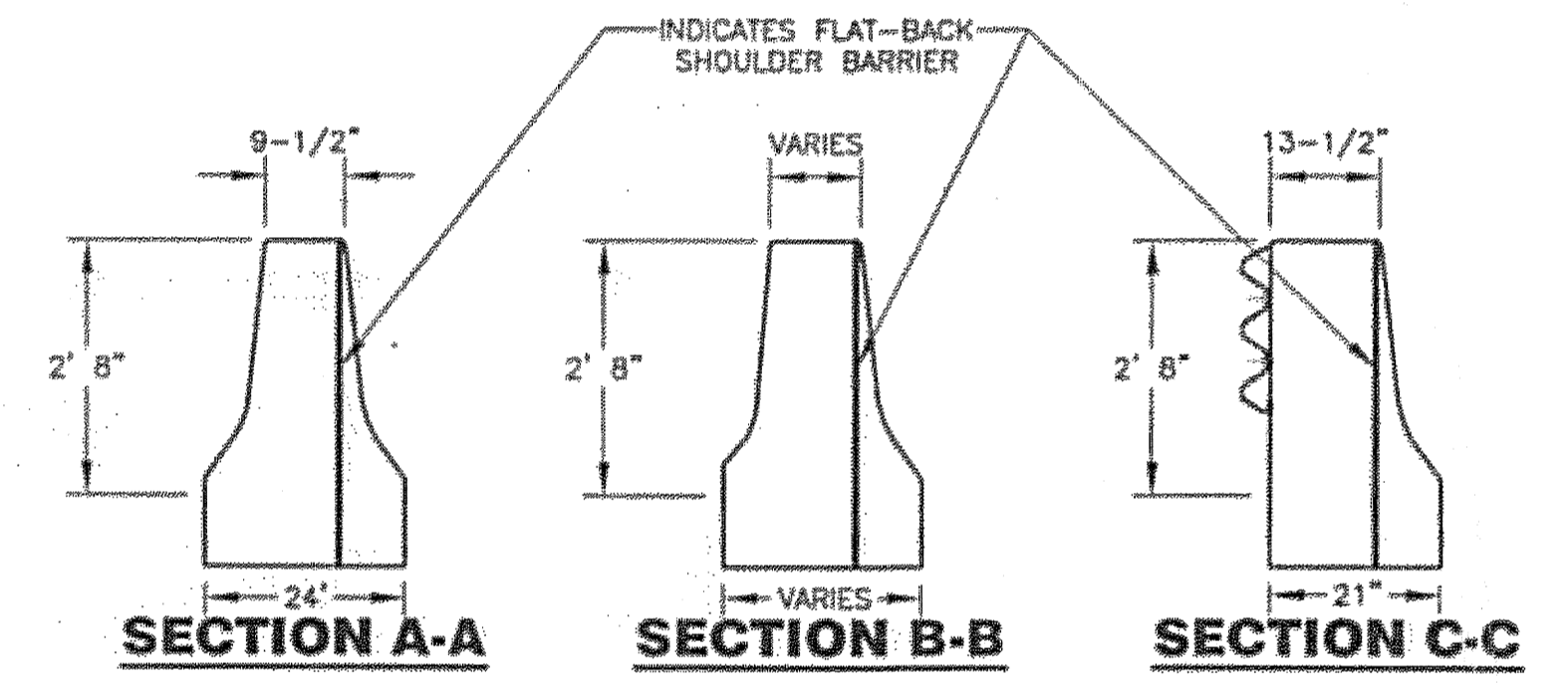
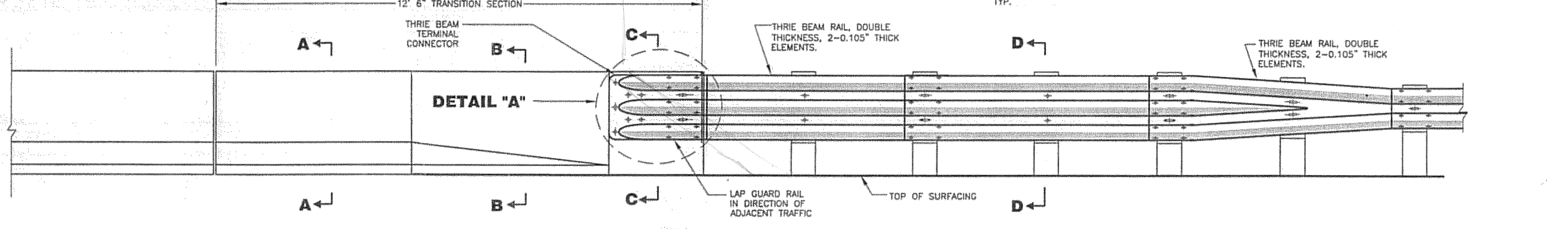
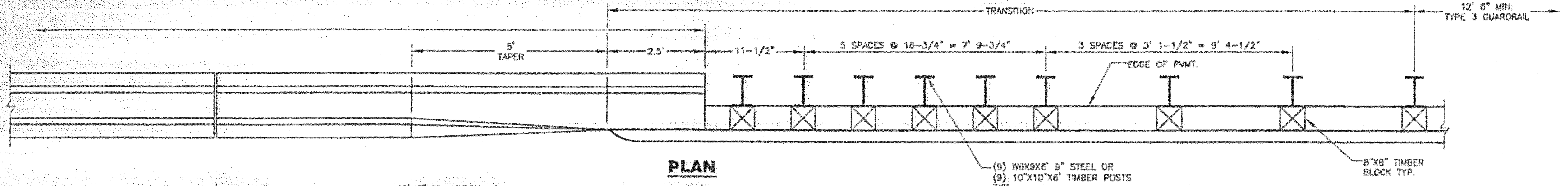
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

LEWIS REEF ROAD TUNNEL DETAILS

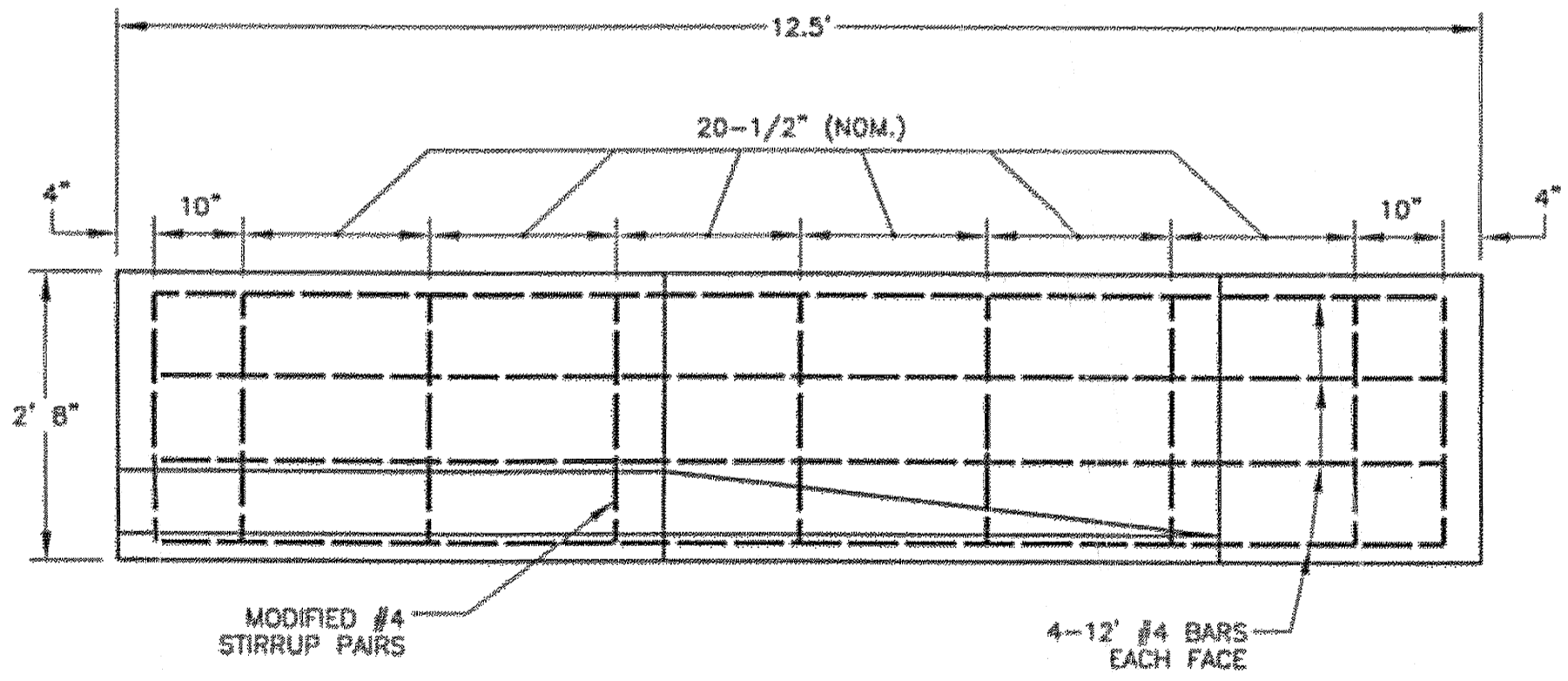
PROJECT DESIGNATION

68456

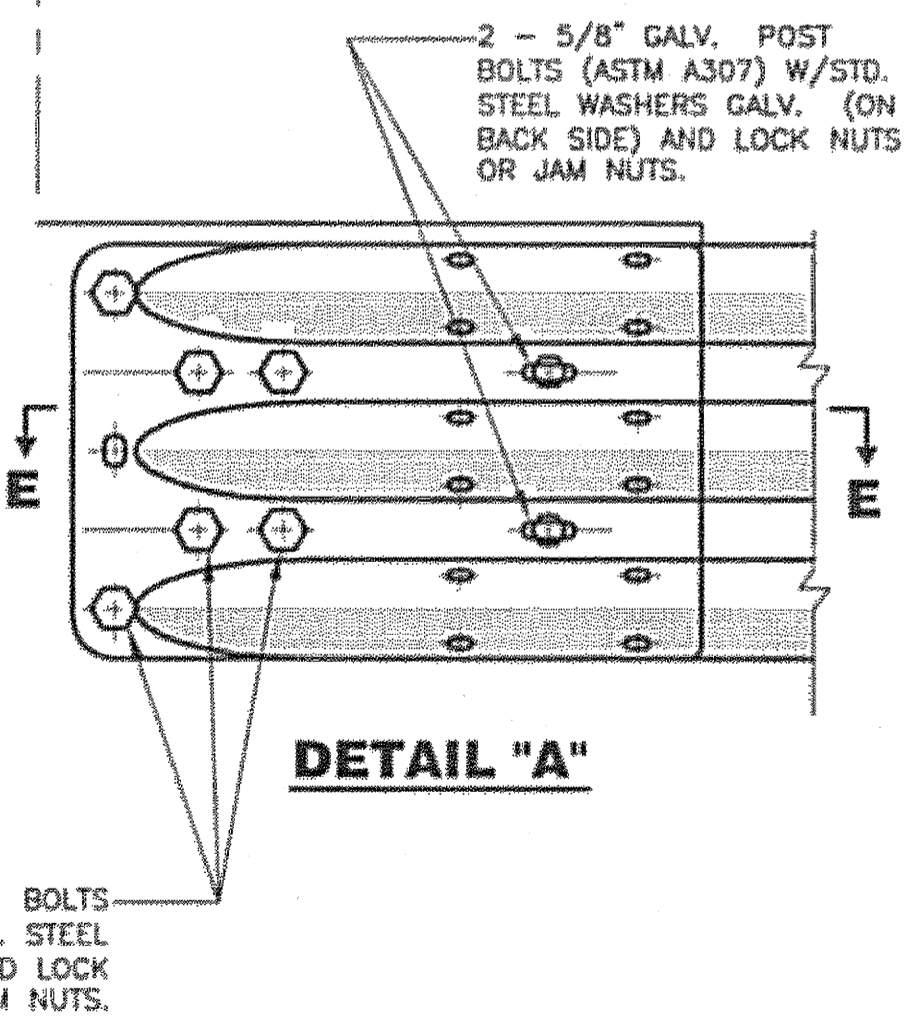
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L12	131



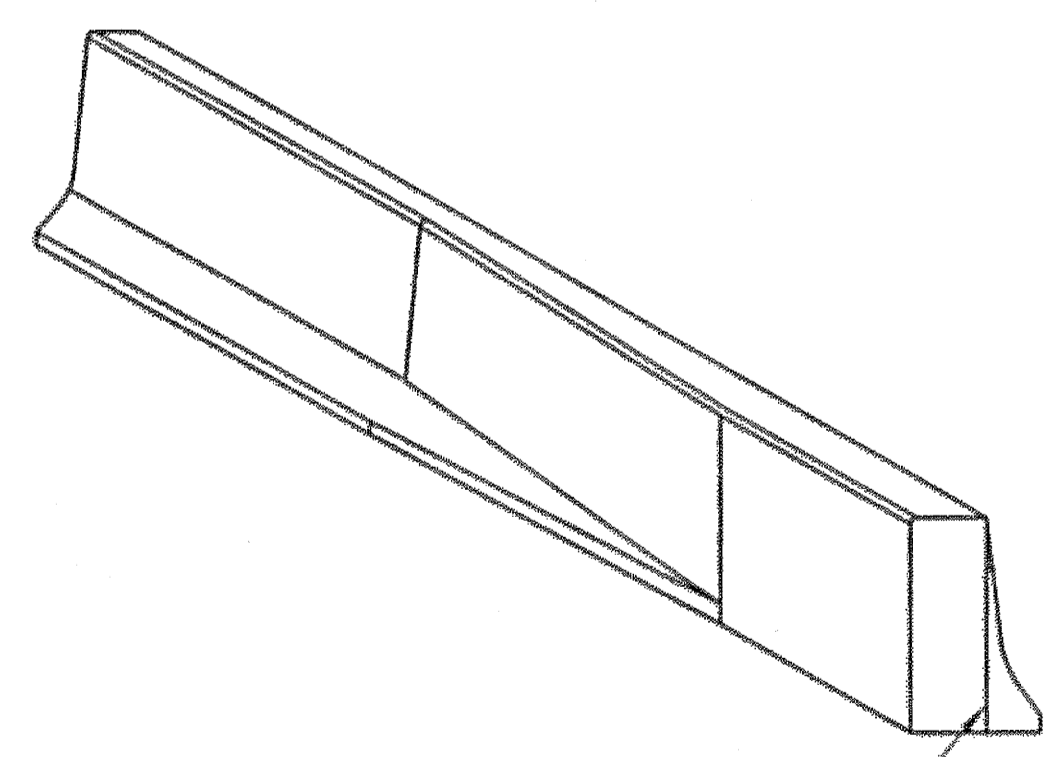
MODIFIED STIRRUP PAIR SECTION A-A #4 Rebar
MODIFIED STIRRUP PAIR SECTION B-B #4 Rebar
• DIMENSION VARIABLE THROUGH TRANSITION SECTION.



TRANSITION SECTION REBAR PLACEMENT



DETAIL "A"



TRANSITION SECTION

GENERAL NOTES:

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A706 OR AASHTO M31 (ASTM A615) GRADE 420.
ALL BARS SHALL BE FULL LENGTH AS SHOWN AND SHALL BE PLACED 2" CLEAR OF THE NEAREST FACE OF CONCRETE UNLESS SHOWN OTHERWISE.

DRAWING TAKEN FROM OREGON DOT STANDARD DETAIL RD530.

1 L12 N.T.S. GUARD RAIL CONNECTION TO CONCRETE BARRIER

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

GENERAL NOTES:

1. SEE SHEET L4 FOR SIGNING SUMMARY TABLE.
2. USE STANDARD 4" DOUBLE YELLOW CENTERLINE AND 4" WHITE EDGE LINE FOR STRIPING NEW PAVEMENT FROM LRR STA. 49+75 TO LRR STA. 64+75.
3. SEE LEWIS REEF ROAD TYPICAL SECTION ON SHEET L2 FOR LANE WIDTHS.

OVERSIZED AND HAZARDOUS CARGO LOADS RESTRICTED IN TUNNEL. ALTERNATE ACCESS BY PERMIT ONLY. CONTACT KGB TRANSPORTATION SERVICES AT (907) 225-6800.

OVERSIZED AND HAZARDOUS CARGO LOADS RESTRICTED IN TUNNEL. ALTERNATE ACCESS BY PERMIT ONLY. CONTACT KGB TRANSPORTATION SERVICES AT (907) 225-6800.

Note: signs 8,9,10,11 mounting brackets fabricated in field. w/ 2" square tube

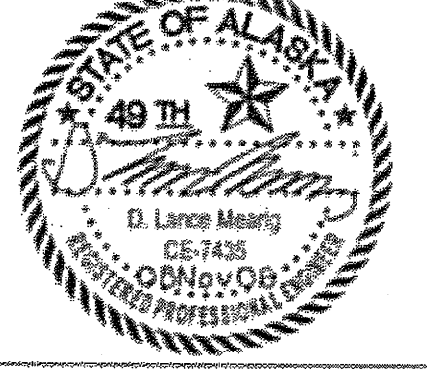
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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

LEWIS REEF ROAD TUNNEL
 PROJECT NO. 67858

LEWIS REEF ROAD TUNNEL
 SIGNING & STRIPING PLAN

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

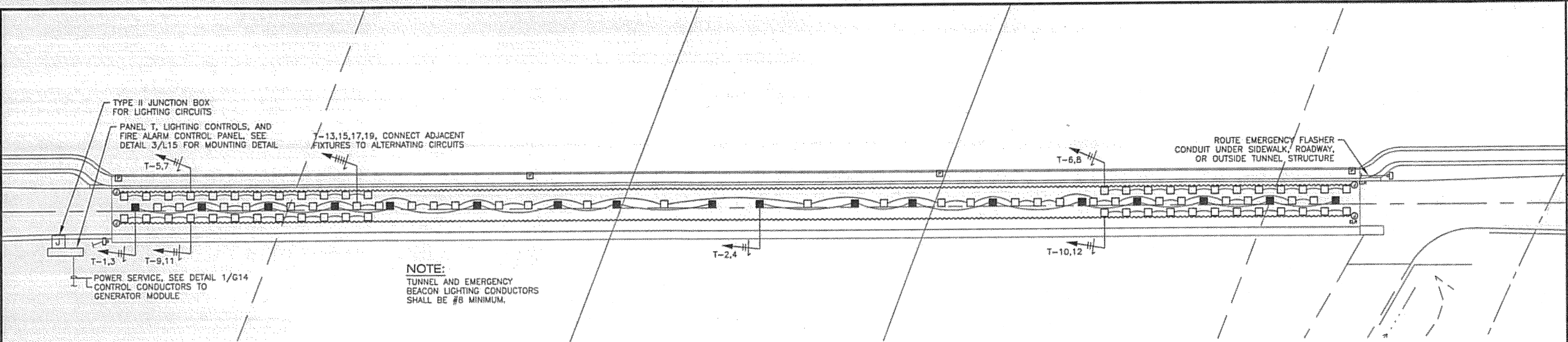
LEWIS REEF ROAD TUNNEL SIGNING & STRIPING PLAN

PROJECT DESIGNATION	
68456	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L13	131

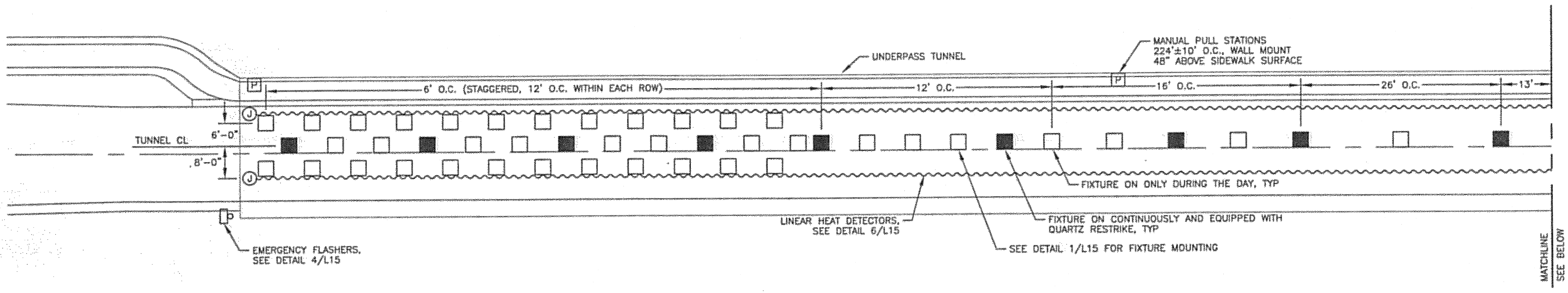
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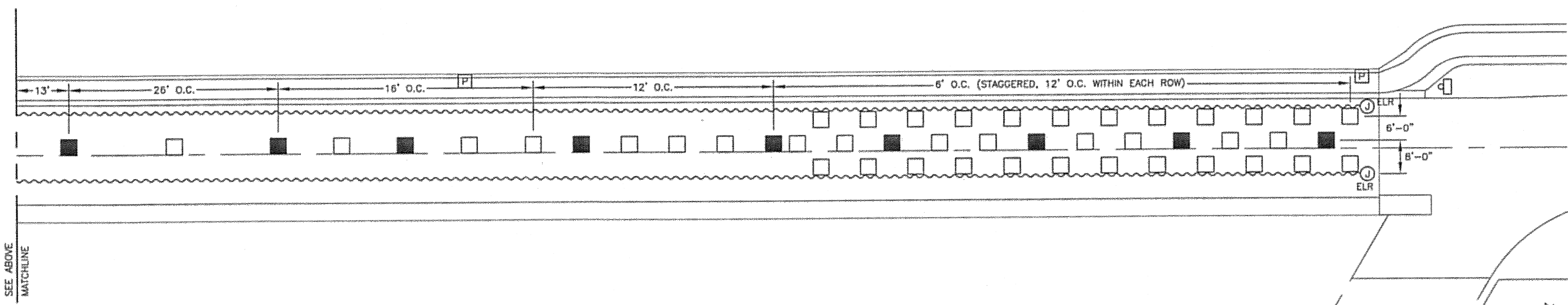
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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



1 TUNNEL LIGHTING - OVERALL PLAN
 1" = 30'-0"
 SCALE IN FEET



2 TUNNEL LIGHTING - NORTH
 1/16" = 1'-0"
 SCALE IN FEET

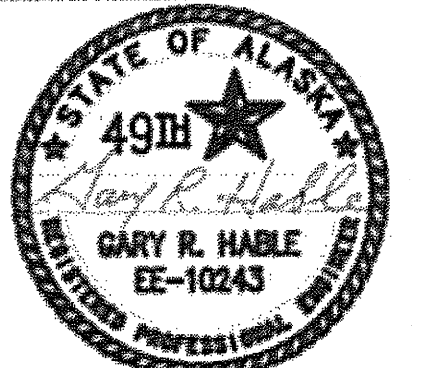


3 TUNNEL LIGHTING - SOUTH
 1/16" = 1'-0"
 SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

LEWIS REEF ROAD TUNNEL
 PROJECT NO. 67858
TUNNEL LIGHTING PLAN

PREPARED BY: USKH INC.
 CHECKED BY: GRH

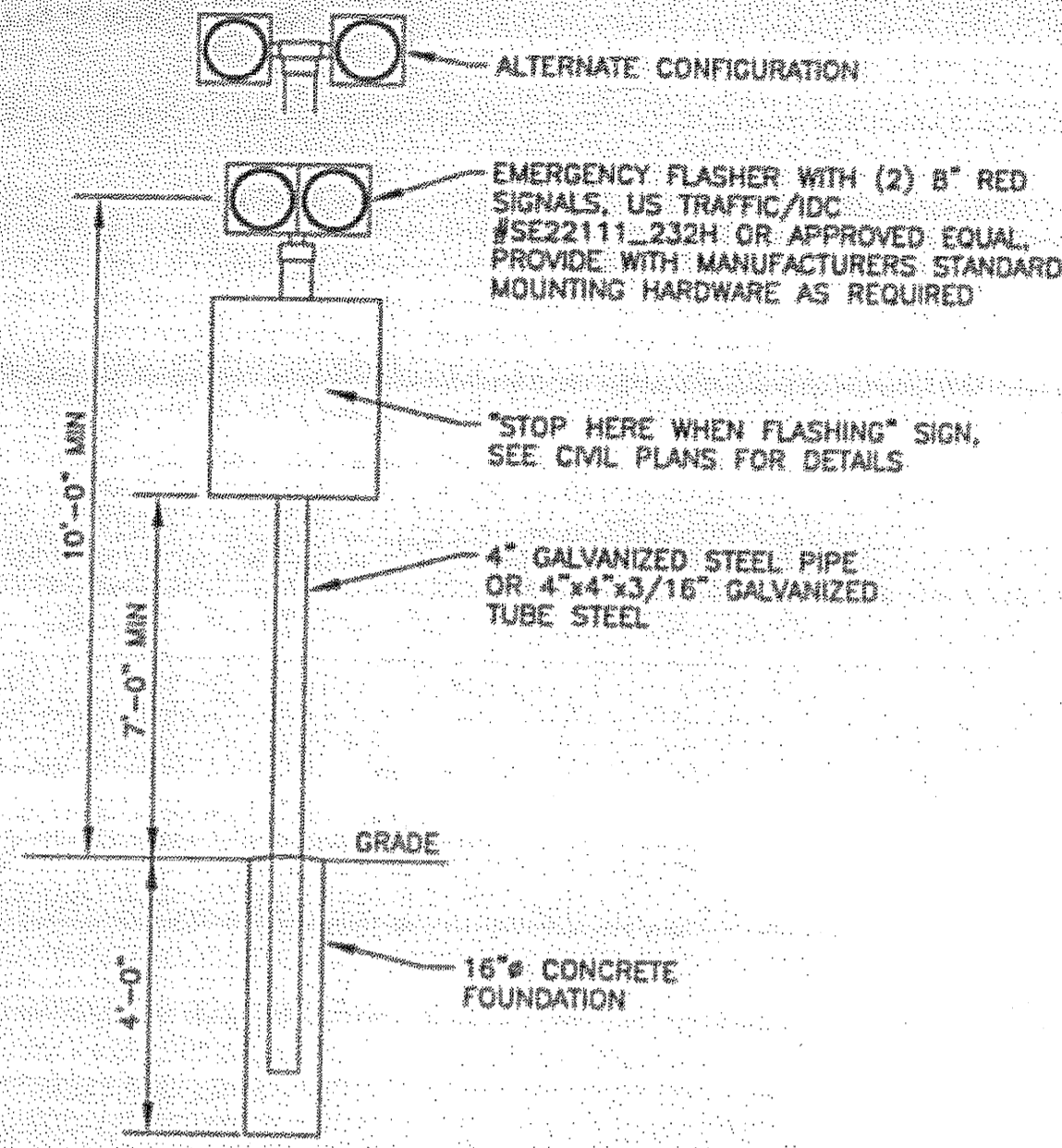


DESIGNED BY: LPS
 DRAWN BY: LPS

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

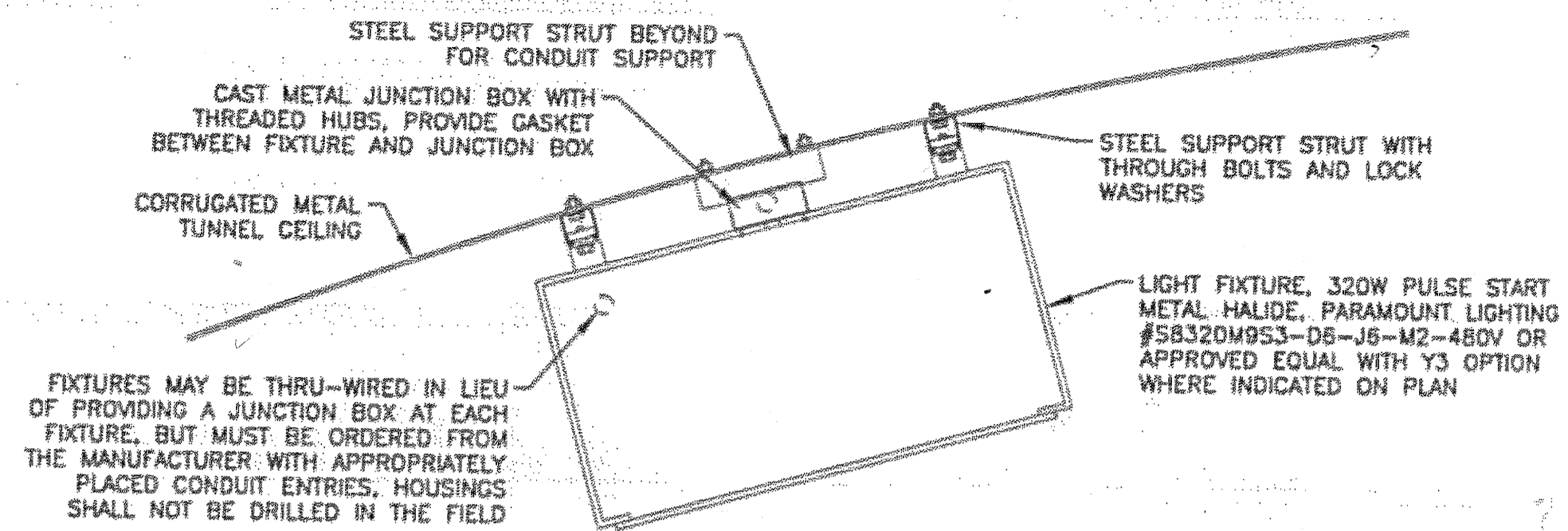
TUNNEL LIGHTING PLAN

PROJECT DESIGNATION	
68456	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L14	131



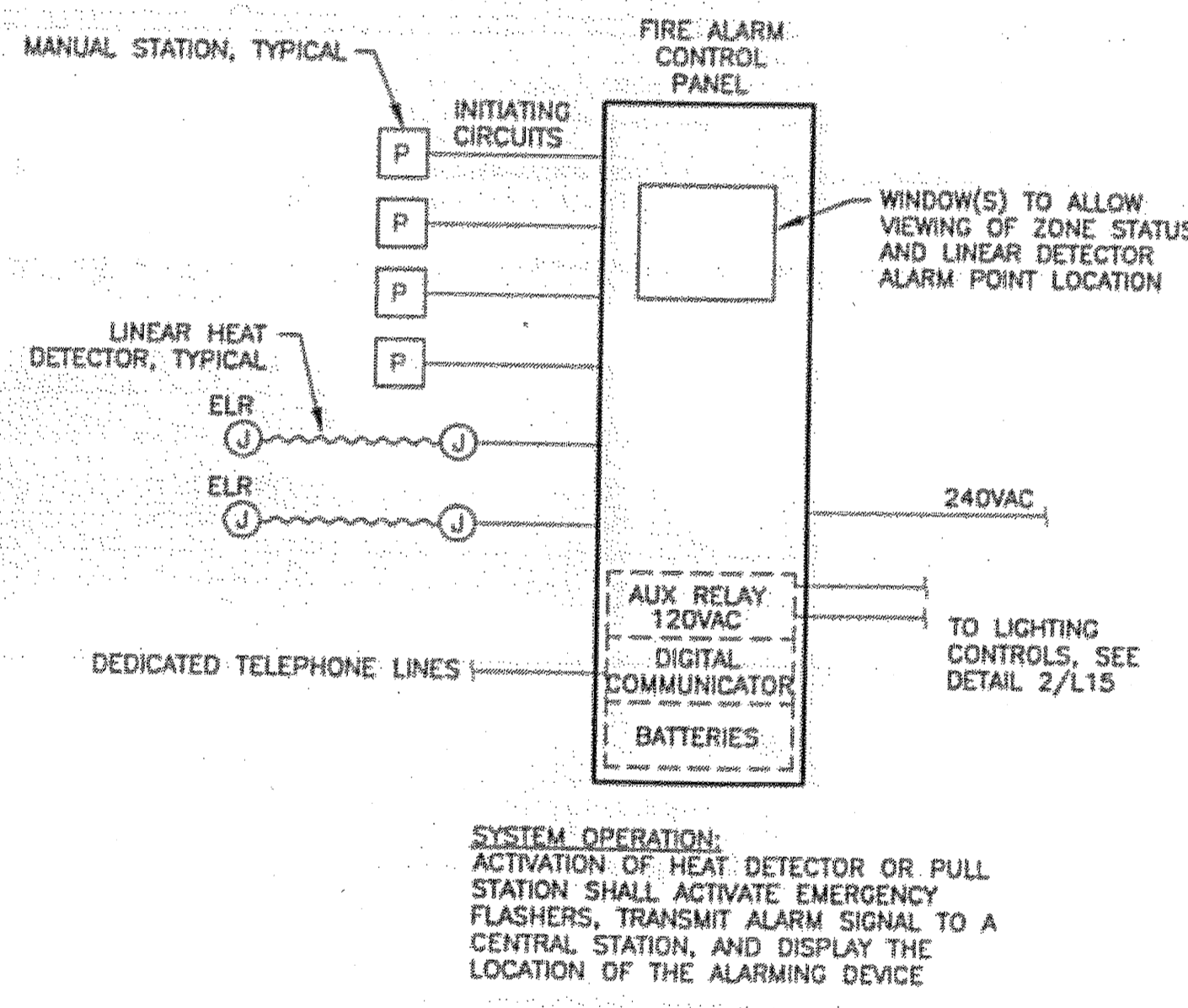
4 EMERGENCY FLASHER DETAIL
L15 N.T.S.

PANEL 'T'									
CKT	LOAD	BRANCH		CONN KVA		BRANCH		LOAD	CKT
		BKR	VA	A	B	VA	BKR		
1	TUNNEL LIGHTING - NORTH (NIGHT)	20/2	2106	4.2		2106	20/2	TUNNEL LIGHTING - SOUTH (NIGHT)	2
3	SEE NOTE 1		2106		4.2	2106		SEE NOTE 1	4
5	TUNNEL LIGHTING - NORTH	20/2	2208	4.4		2208	20/2	TUNNEL LIGHTING - SOUTH	6
7	SEE NOTE 2		2208		4.4	2208		SEE NOTE 2	8
9	TUNNEL LIGHTING - NORTH	20/2	2208	4.4		2208	20/2	TUNNEL LIGHTING - SOUTH	10
11	SEE NOTE 2		2208		4.4	2208		SEE NOTE 2	12
13	TUNNEL LIGHTING - CENTER	20/2	2760	2.8					14
15	SEE NOTE 2		2760		2.8				16
17	TUNNEL LIGHTING - CENTER	20/2	2760	2.8					18
19	SEE NOTE 2		2760		2.8				20
21	LIGHTING CONTROLS	15/1	500	0.5					22
23	EMERGENCY FLASHERS	15/1	160		0.2				24
25	FIRE ALARM CONTROL PANEL	15/1	300	0.3					26
27					0.0				28
29					0.0				30
CONNECTED LOAD			38.1 KVA	19.4	18.7				
NEC DEMAND			47.5 KVA	81	78				
			79 AMPS						
			99 AMPS						
PANEL NOTES					PANEL SPECIFICATIONS				
1. SERVE LIGHTING DIRECTLY FROM CIRCUIT BREAKER.					MAINS RATING AMPS - 150				
2. SERVE LIGHTING THROUGH NORMALLY-CLOSED CONTACTOR SO LIGHTING IS ENERGIZED DURING THE DAY.					MAIN CIRCUIT BREAKER AMPERES - 150				
					CAPACITY ONE-POLE CIRCUITS - 30				
					SYSTEM VOLTAGE - 480/240				
					PHASE, NO. OF WIRES - 1 PH, 3 W				
					AIC RATING - 10,000				
					ENCLOSURE - NEMA 4X				



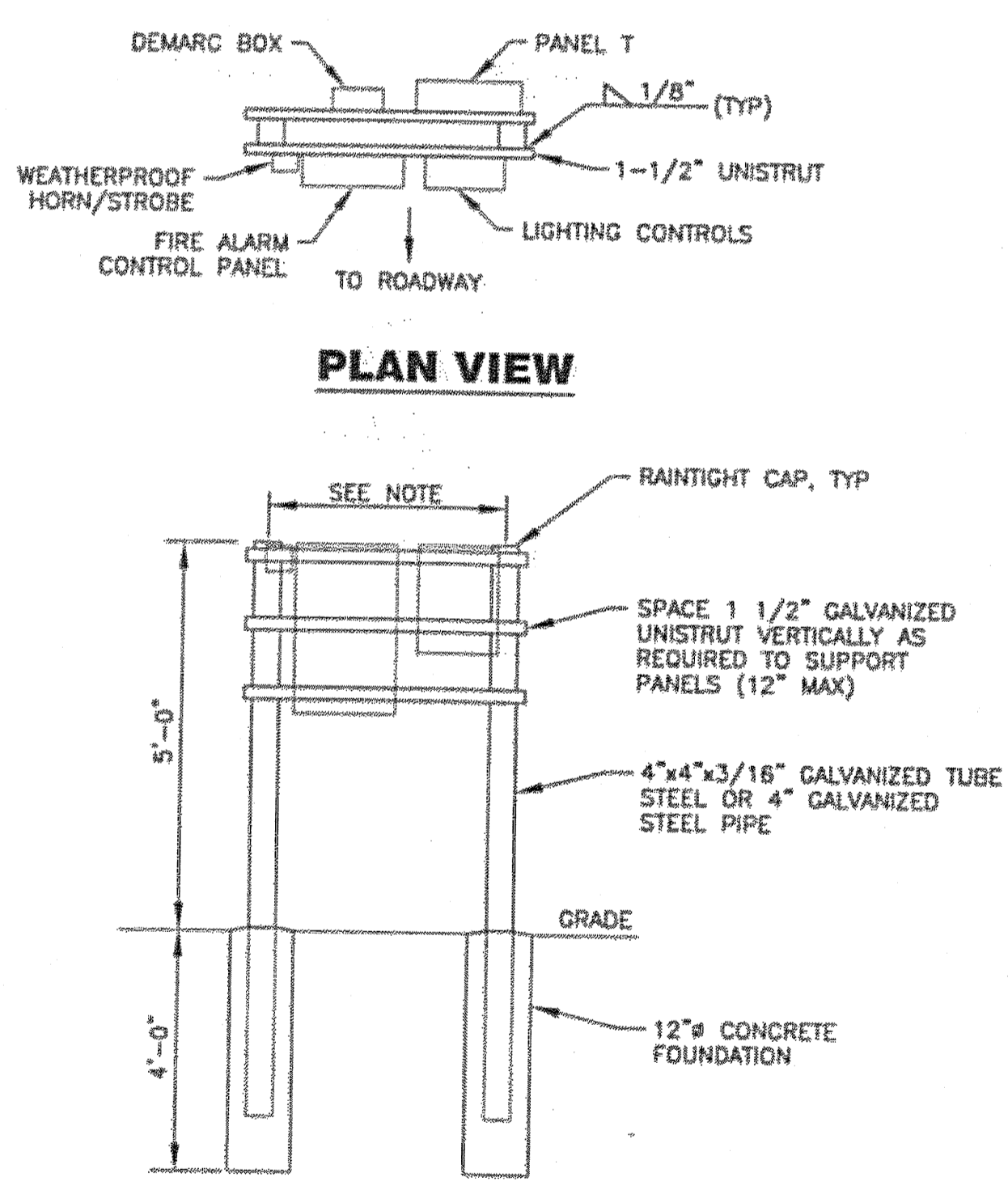
- NOTES:**
- STEEL SUPPORT STRUT SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL
 - HARDWARE SHALL BE STAINLESS STEEL
 - STEEL SUPPORT STRUT FOR FIXTURE SUPPORT MAY BE CONTINUOUS, SEGMENTS AT EACH FIXTURE, OR A COMBINATION WHERE STRUT IS CONTINUOUS, LOCATE THROUGH BOLTS WITHIN 12" OF EACH SIDE OF EACH FIXTURE AND EVERY 4' MAXIMUM BETWEEN FIXTURES
 - MOUNTING SHOWN IS SUGGESTED MOUNTING METHOD. CONTRACTOR MAY PROPOSE ALTERNATE INSTALLATION FOR REVIEW BY THE ENGINEER

1 FIXTURE MOUNTING DETAIL
L15 N.T.S.



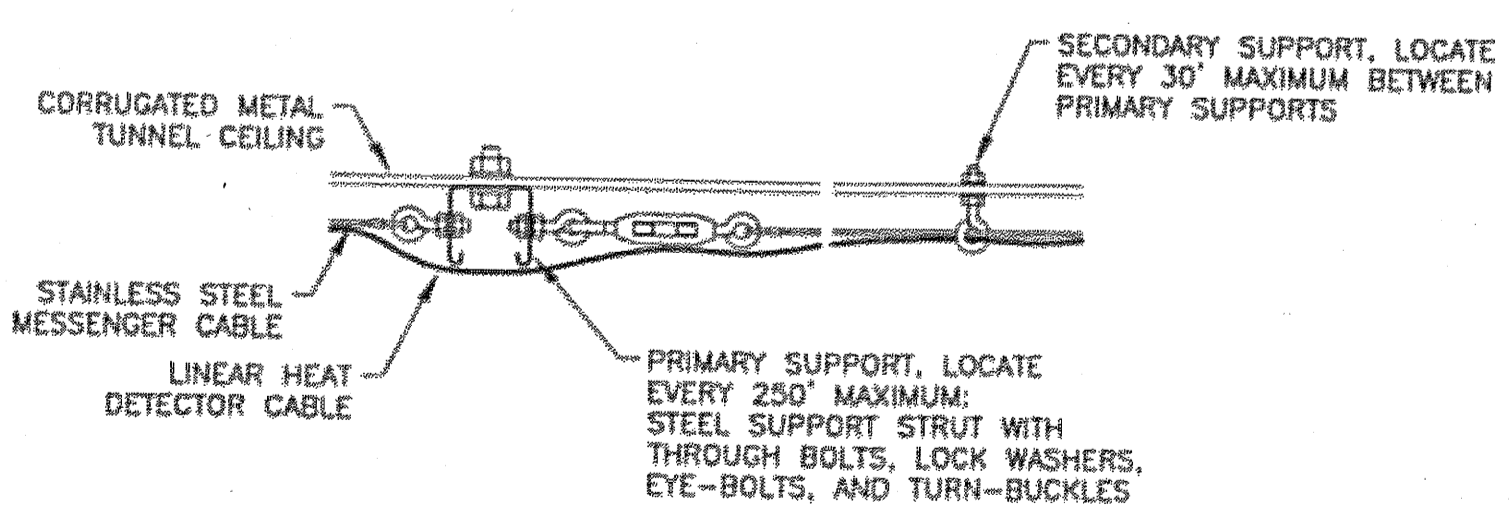
SYSTEM OPERATION:
ACTIVATION OF HEAT DETECTOR OR PULL STATION SHALL ACTIVATE EMERGENCY FLASHERS, TRANSMIT ALARM SIGNAL TO A CENTRAL STATION, AND DISPLAY THE LOCATION OF THE ALARMING DEVICE

5 FIRE ALARM RISER DIAGRAM
L15 N.T.S.



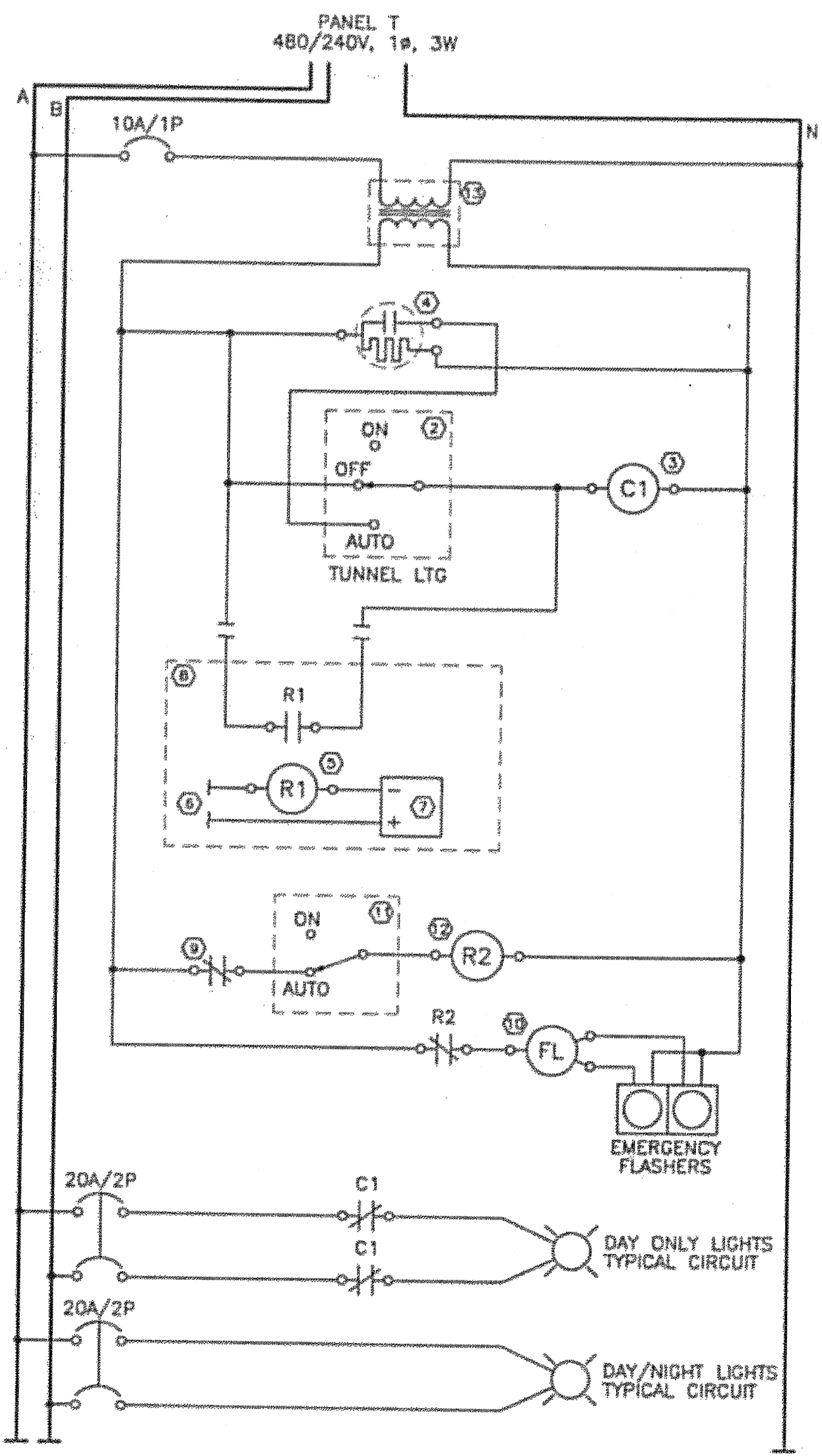
NOTE:
ADJUST WIDTH AS REQUIRED FOR EQUIPMENT INSTALLED, 24" MINIMUM, 48" MAXIMUM, IF LONGER SUPPORTS ARE NEEDED, PROVIDE ADDITIONAL POSTS

3 PANEL MOUNTING DETAIL
L15 N.T.S.



6 HEAT DETECTOR MOUNTING DETAIL
L15 N.T.S.

- LIGHTING CONTROL NOTES:**
- MOUNT LIGHTING CONTROLS IN A NEMA 4X ENCLOSURE WITH INTERNAL DEAD-FRONT PANEL UNLESS OTHERWISE NOTED.
 - ON-OFF-AUTO SWITCH, SQUARE D #KS43B OR APPROVED EQUAL, MOUNT IN DEAD-FRONT PANEL AND LABEL "DAYTIME TUNNEL LIGHTING"
 - 30A/12-POLE CONTACTOR, CONTACTOR SHALL BE ELECTRICALLY HELD WITH 120V COIL, SQUARE D TYPE LO OR APPROVED EQUAL
 - 120V ADJUSTABLE PHOTOCELL LOCATED AT LOADCENTER
 - 24VDC CONTROL RELAY
 - ROUTE TO N.O. OVERLOAD ALARM CONTACTS IN GENERATOR CONTROLLER, SET TO CLOSE AT 95% OF RATED LOAD
 - 24VDC POWER SUPPLY OR 24V PROVIDED BY GENERATOR CONTROLS
 - MOUNT RELAY (AND POWER SUPPLY IF PROVIDED) IN NEMA 1 ENCLOSURE IN GENERATOR MODULE
 - CONTACTS IN FIRE ALARM CONTROL PANEL, SEE DETAIL 5/L15
 - ALTERNATING FLASHER MODULE
 - ON-AUTO SWITCH, SQUARE D #KS11B OR APPROVED EQUAL, MOUNT IN DEAD-FRONT PANEL AND LABEL "EMERGENCY FLASHERS"
 - 15A, 120VAC POWER RELAY
 - 1.5kW, 240-120V TRANSFORMER, MOUNT IN CONTROL ENCLOSURE



2 TUNNEL LIGHTING CONTROL DETAIL
L15 N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

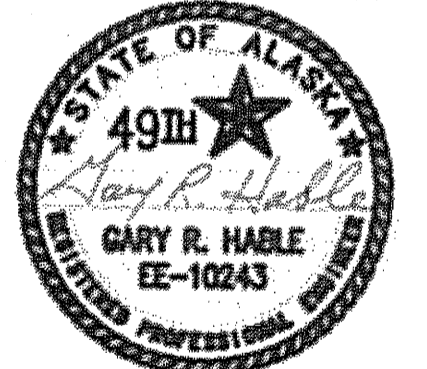
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ADDENDUM NUMBER	
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RECORD OF REVISIONS	
No.	DATE DESCRIPTION

LEWIS REEF ROAD TUNNEL
PROJECT NO. 67858

TUNNEL LIGHTING DETAILS

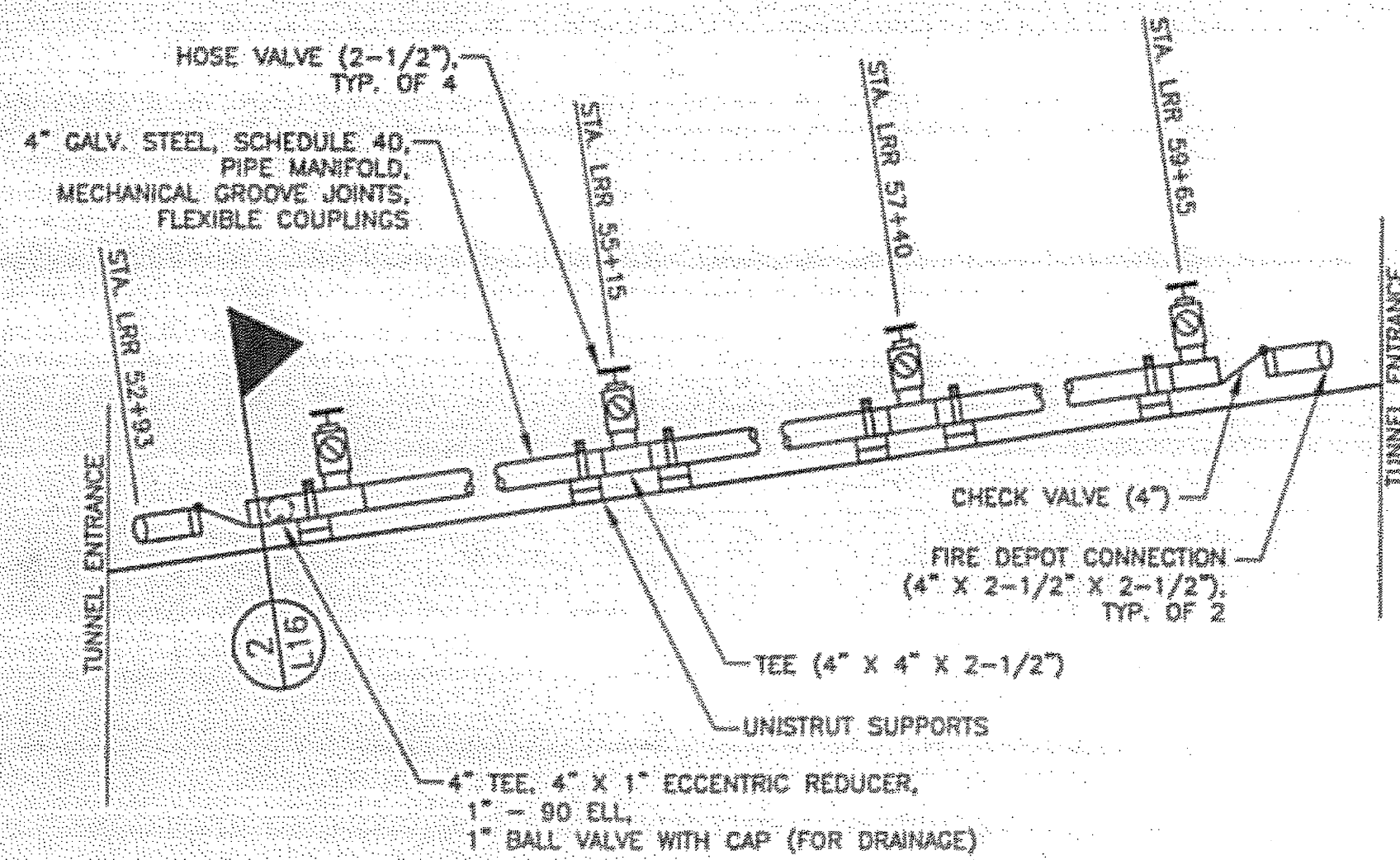
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CHECKED BY: GRH



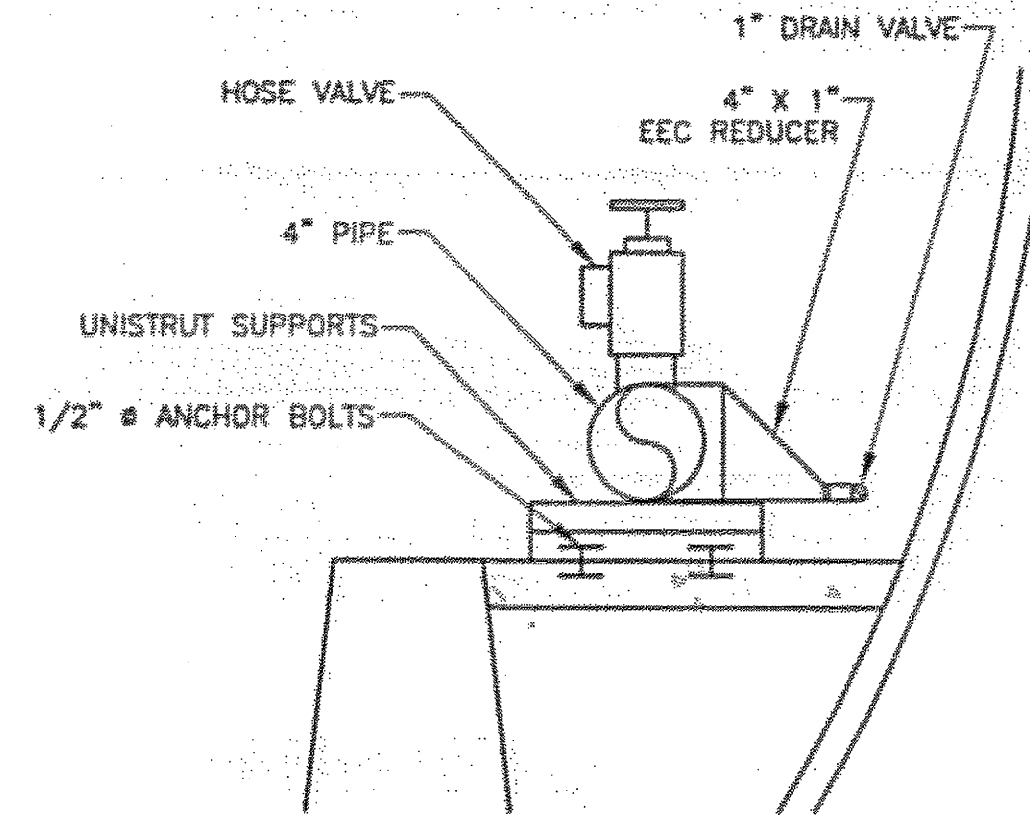
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DRAWN BY: LPS
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SOUTHEAST REGION

TUNNEL LIGHTING DETAILS

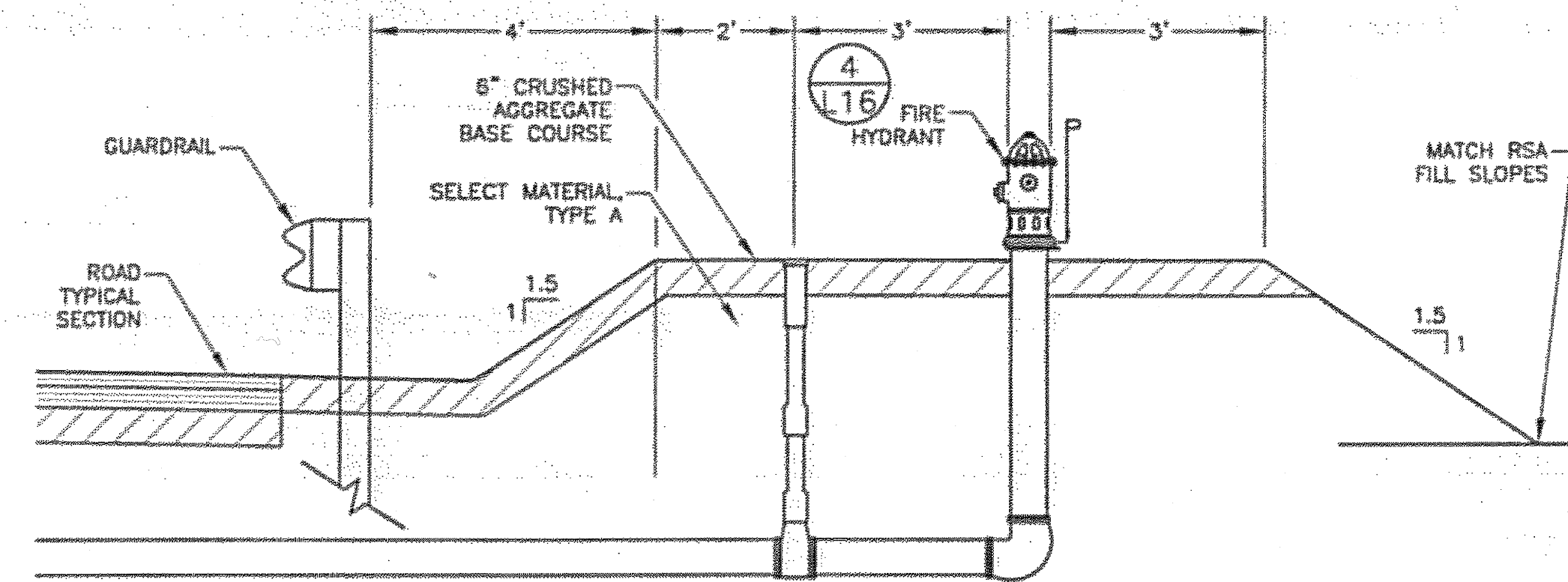
PROJECT DESIGNATION	
68456	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L15	131



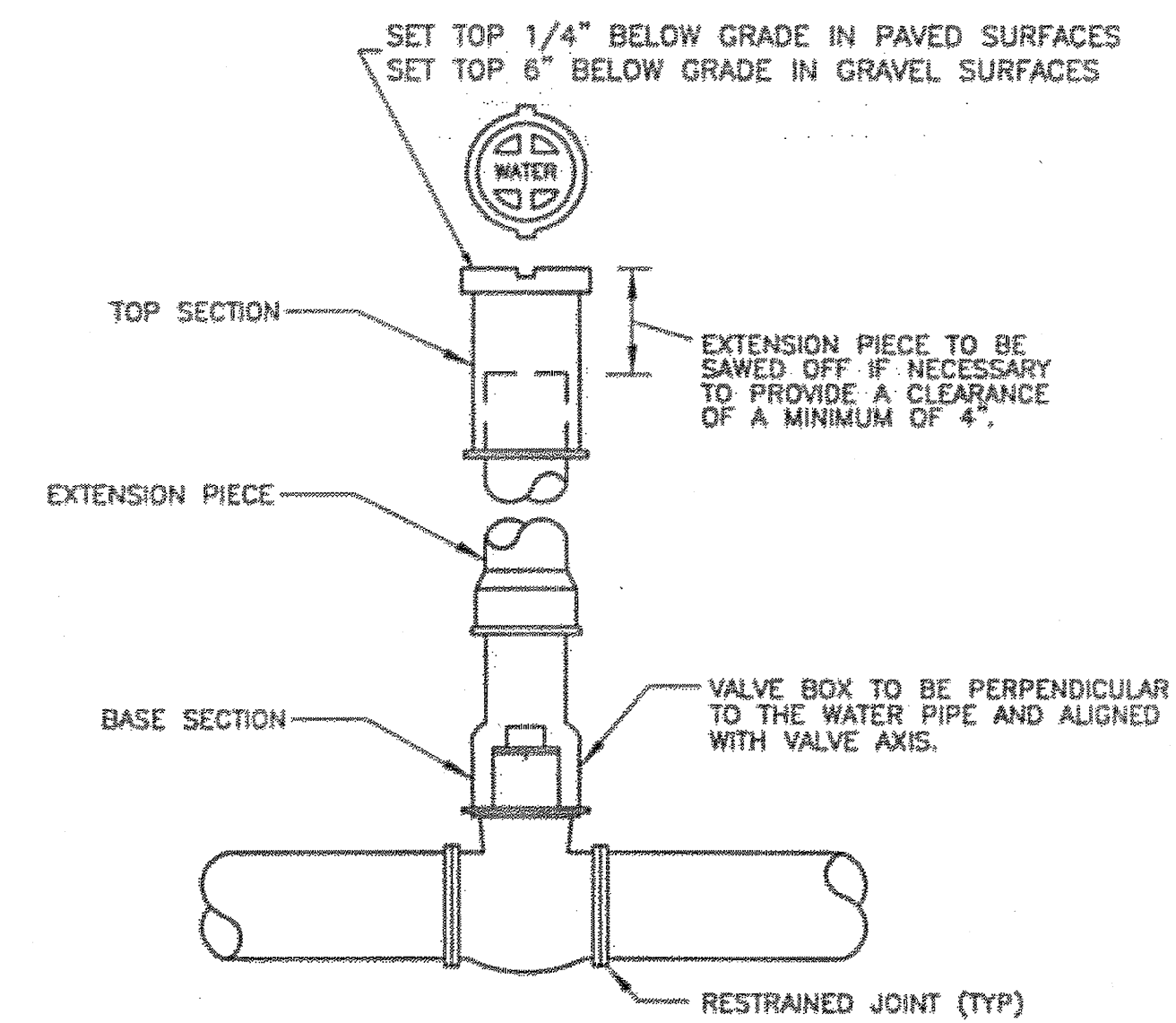
1 SCHEMATIC - TUNNEL STANDPIPE SYSTEM
 L16 N.T.S.



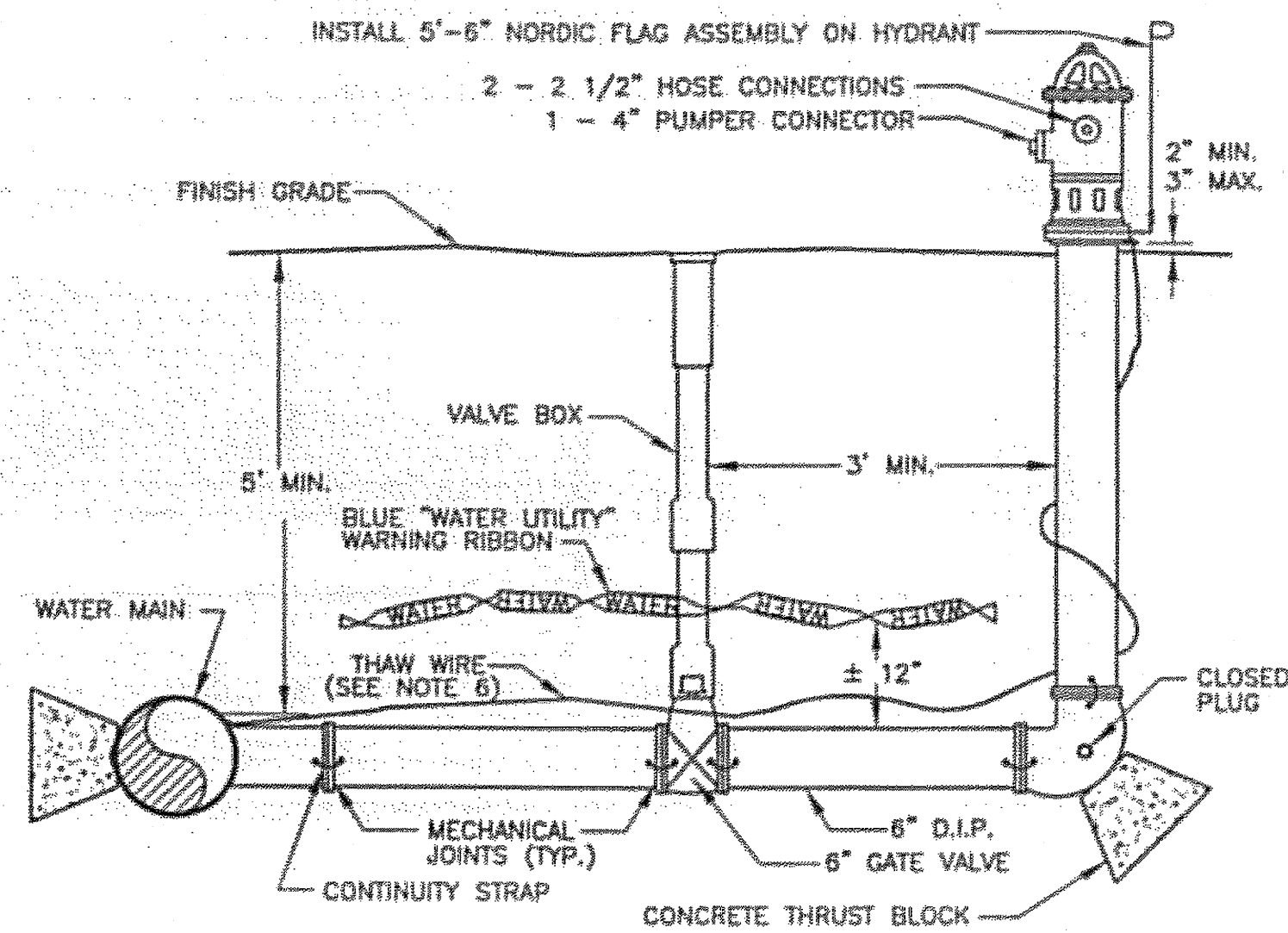
2 TUNNEL STAND PIPE SECTION
 L16 N.T.S.



3 FIRE HYDRANT ACCESS PAD
 L16 N.T.S.



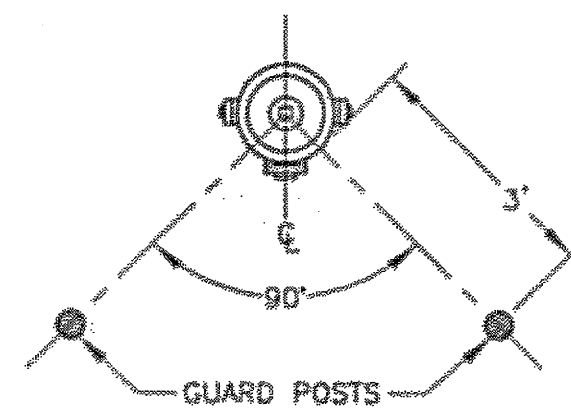
6 VALVE BOX
 L16 N.T.S.



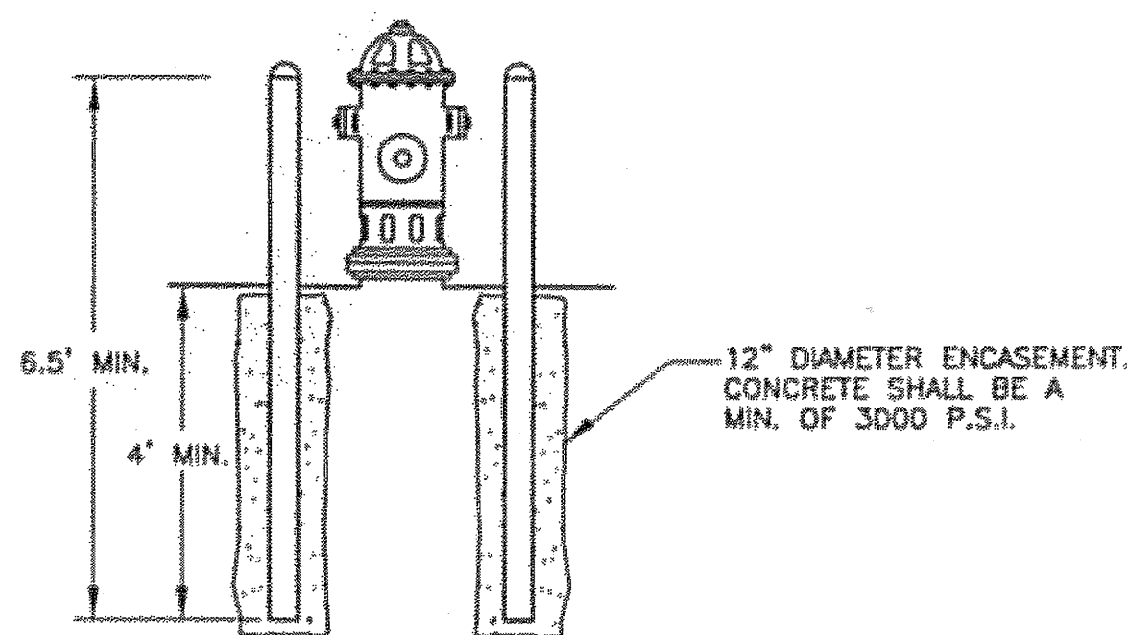
NOTES:

- HYDRANT BARREL SHALL BE PLUMB.
- WATER PIPE SHALL BE 6" D.I.P. CONNECTIONS SHALL BE RESTRAINED MECHANICAL JOINTS OR MEGALUGS.
- GROUND COVER SHALL BE 5' MINIMUM.
- BENDS BETWEEN THE HYDRANT AND THE MAIN SHALL NOT EXCEED 11 1/4'.
- ALL HYDRANTS SHALL BE PAINTED "CATERPILLAR YELLOW". ALL HYDRANTS WITH PLUGGED DRAINS SHALL HAVE THE TOP BONNET PAINTED OSHA SAFETY BLUE. NUMBER OF FEET TO VALVE SHALL BE PRINTED IN BLACK 1/2" BLOCK LETTERS JUST BELOW TOP BONNET.
- THAW WIRE AND CONTINUITY STRAPS SHALL BE #2 COPPER WITH TYPE THHW INSULATION. THAW WIRE SHALL BE CAD WELDED TO THE MAIN. EACH JOINT SHALL HAVE TWO CAD WELDED CONTINUITY STRAPS ACROSS OPPOSITE SIDES OF THE PIPE.

4 FIRE HYDRANT
 L16 N.T.S.



PLAN VIEW

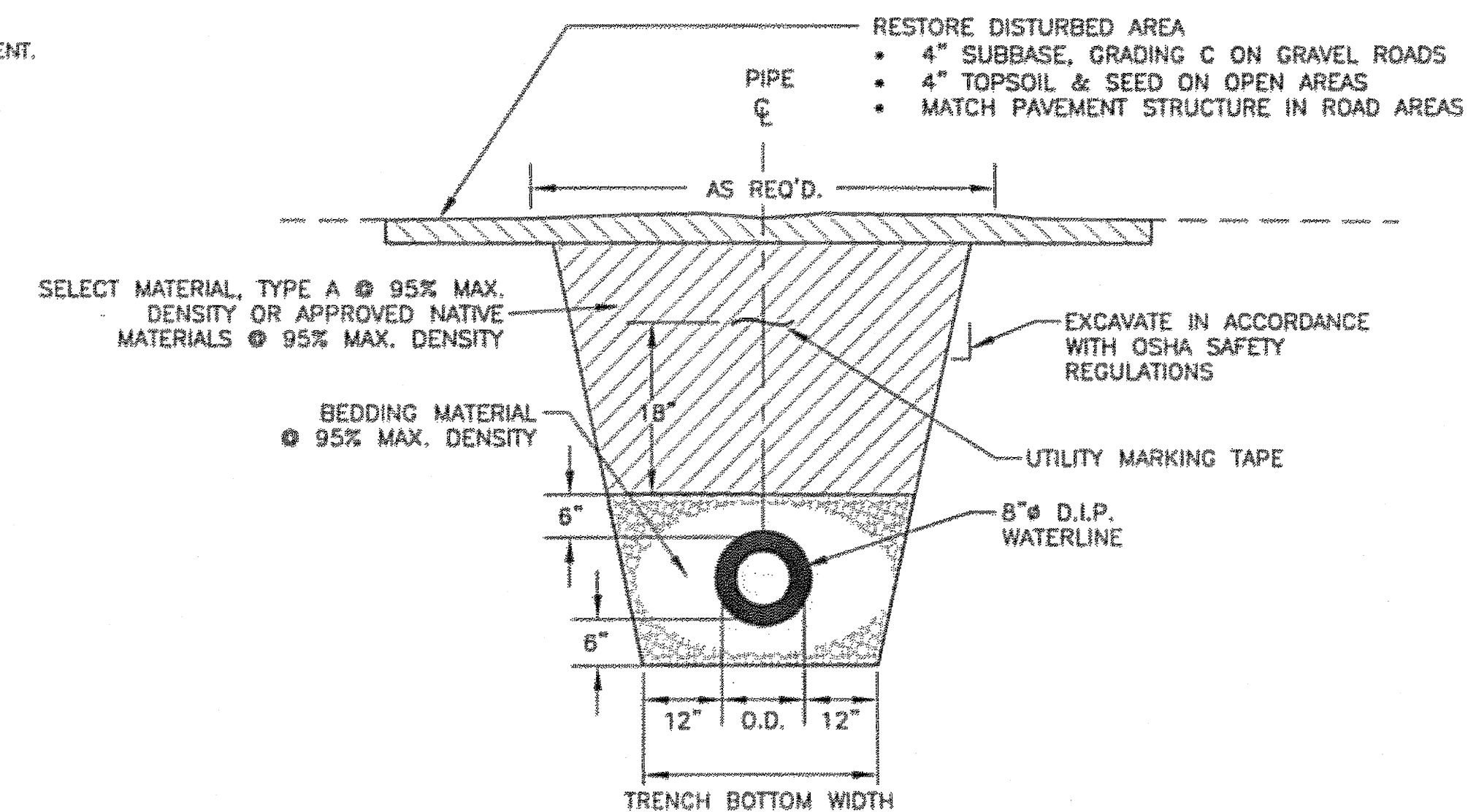


ELEVATION VIEW

NOTES:

- GUARD POSTS SHALL BE 8" DIAMETER, SCHEDULE 40 STEEL PIPE.
- POSTS SHALL BE FILLED FLUSH WITH CONCRETE AND PAINTED WITH OSHA YELLOW ENAMEL AFTER INSTALLATION.
- POSTS SHALL NOT BLOCK OPERATION OF VALVE.
- GUARD POSTS NOT TO BE USED WHEN FIRE HYDRANT GUARD POST IS INSIDE THE ROAD CLEAR ZONE. CLEAR ZONE IS 22' FROM ROAD CENTERLINE.

5 FIRE HYDRANT GUARD POSTS
 L16 N.T.S.



7 TYPICAL TRENCH DETAIL
 L16 N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

LEWIS REEF ROAD TUNNEL
 PROJECT NO. 67858

FIRE PROTECTION
 STAND PIPE

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

**FIRE PROTECTION
 STAND PIPE**

PROJECT DESIGNATION

68456

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L16	131

ADDENDUM NUMBER

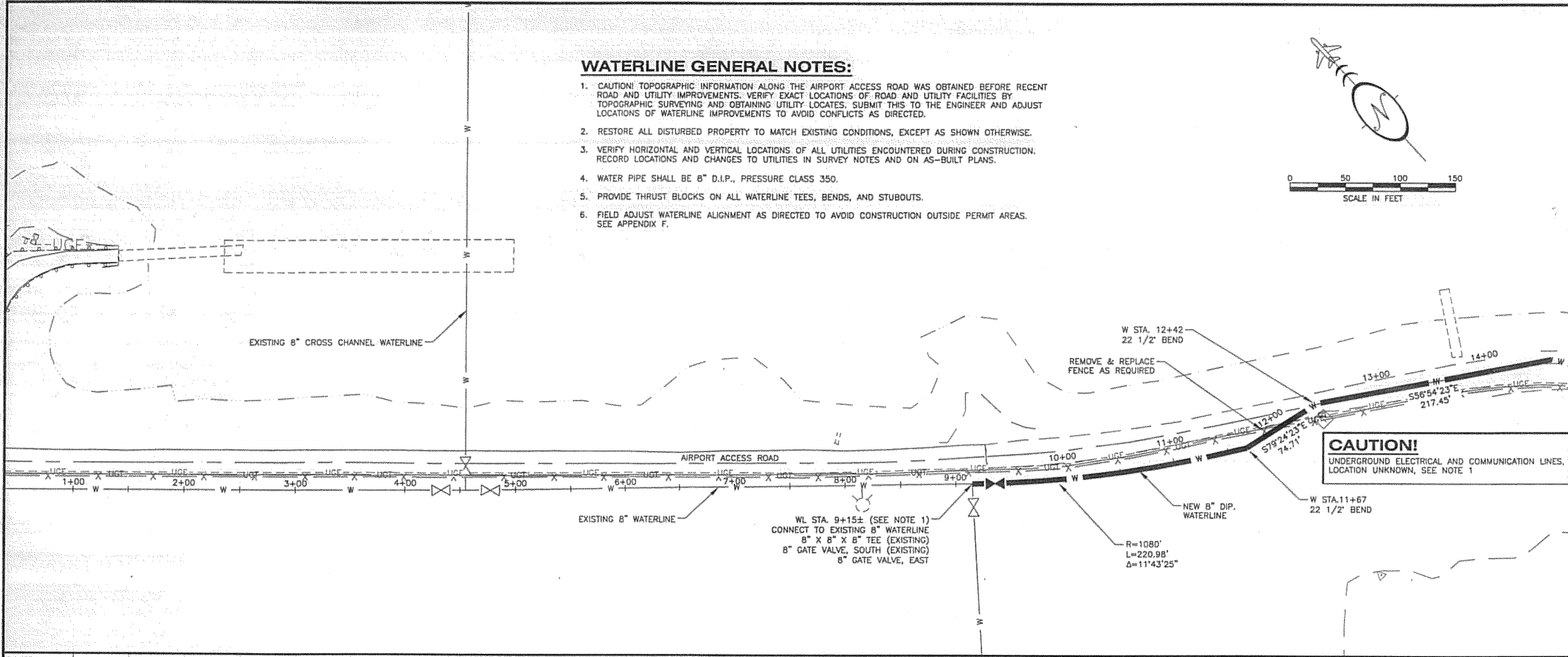
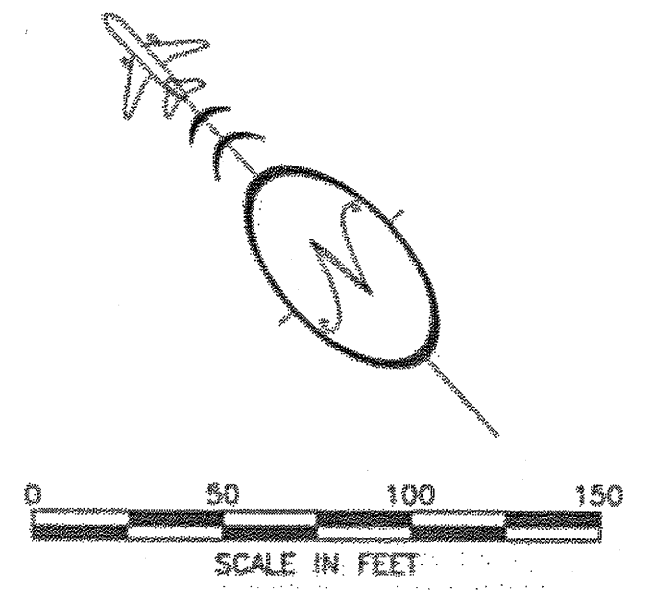
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RECORD OF REVISIONS

No.	DATE	DESCRIPTION

WATERLINE GENERAL NOTES:

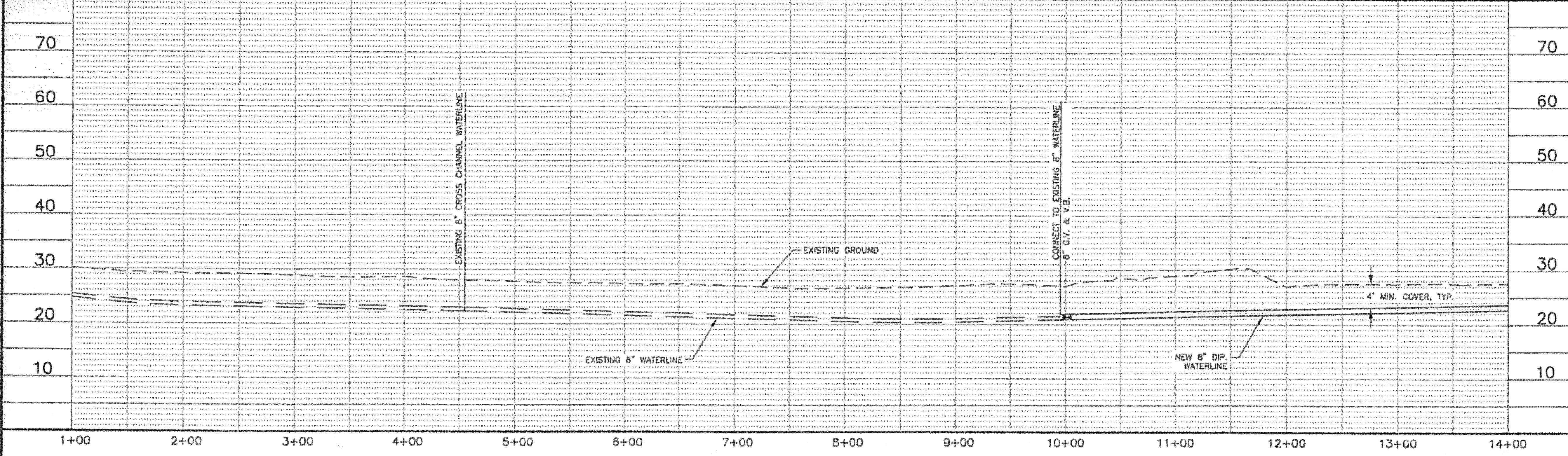
1. CAUTION! TOPOGRAPHIC INFORMATION ALONG THE AIRPORT ACCESS ROAD WAS OBTAINED BEFORE RECENT ROAD AND UTILITY IMPROVEMENTS. VERIFY EXACT LOCATIONS OF ROAD AND UTILITY FACILITIES BY TOPOGRAPHIC SURVEYING AND OBTAINING UTILITY LOCATES, SUBMIT THIS TO THE ENGINEER AND ADJUST LOCATIONS OF WATERLINE IMPROVEMENTS TO AVOID CONFLICTS AS DIRECTED.
2. RESTORE ALL DISTURBED PROPERTY TO MATCH EXISTING CONDITIONS, EXCEPT AS SHOWN OTHERWISE.
3. VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. RECORD LOCATIONS AND CHANGES TO UTILITIES IN SURVEY NOTES AND ON AS-BUILT PLANS.
4. WATER PIPE SHALL BE 8" D.I.P., PRESSURE CLASS 350.
5. PROVIDE THRUST BLOCKS ON ALL WATERLINE TEES, BENDS, AND STUBOUTS.
6. FIELD ADJUST WATERLINE ALIGNMENT AS DIRECTED TO AVOID CONSTRUCTION OUTSIDE PERMIT AREAS. SEE APPENDIX F.



CAUTION!
UNDERGROUND ELECTRICAL AND COMMUNICATION LINES.
LOCATION UNKNOWN, SEE NOTE 1

LEWIS REEF ROAD TUNNEL
PROJECT NO. 67858

WATERLINE PLAN & PROFILE



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

**WATERLINE
PLAN & PROFILE**

PROJECT DESIGNATION

68456

STATE YEAR

ALASKA 2006

SHEET NUMBER TOTAL SHEETS

L17 131

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

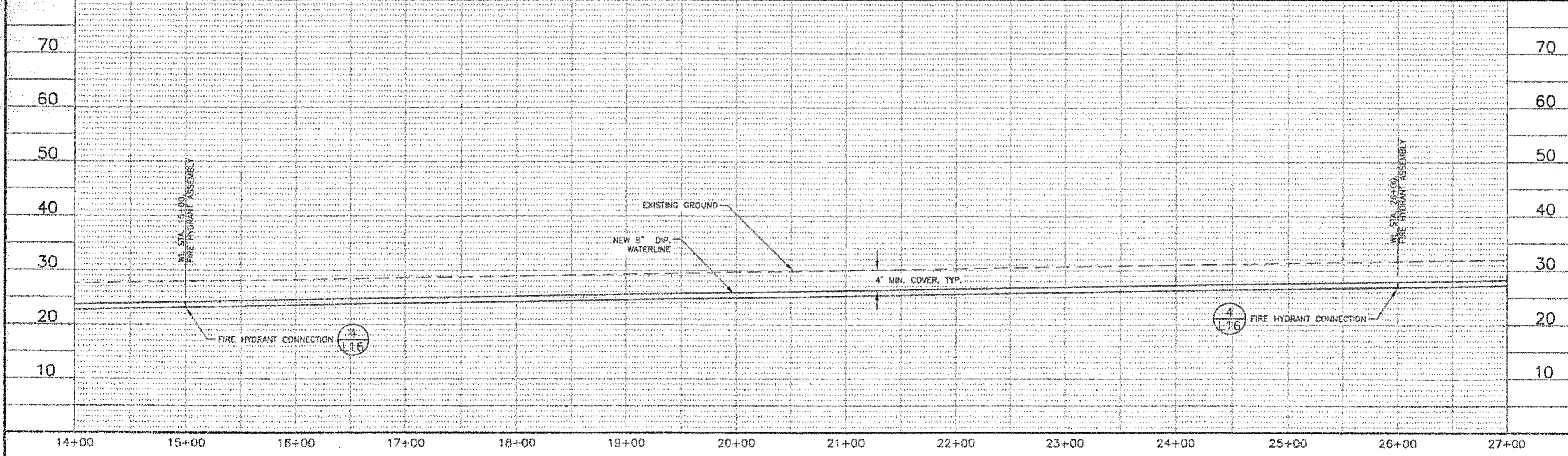
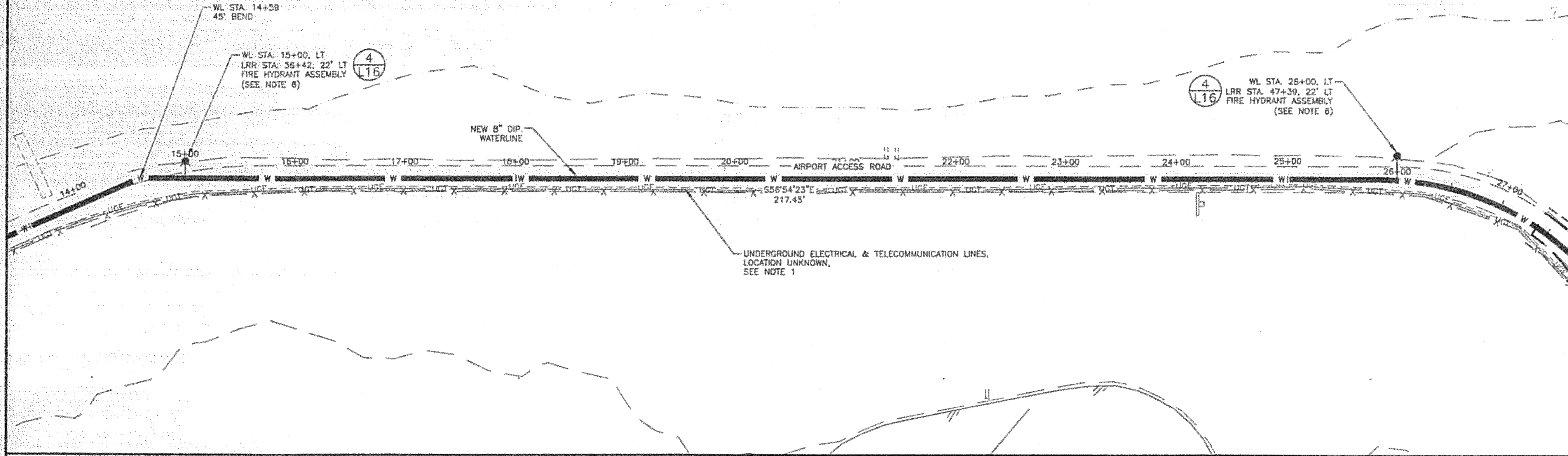
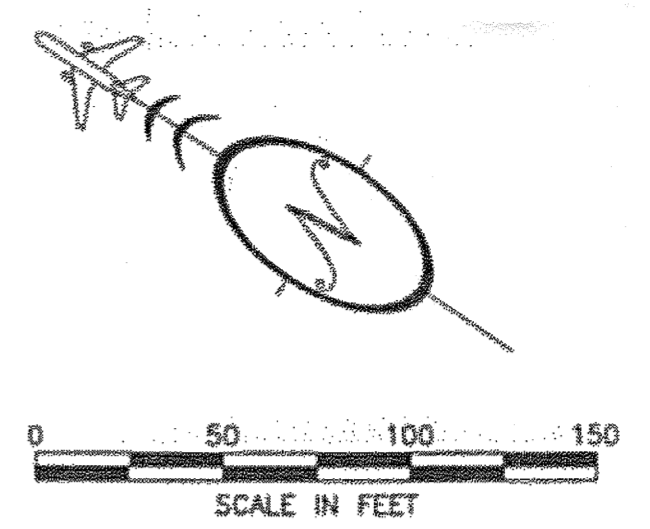
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LEWIS REEF ROAD TUNNEL
 PROJECT NO. 67858

WATERLINE PLAN & PROFILE

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

**WATERLINE
 PLAN & PROFILE**

PROJECT DESIGNATION

68456

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
L18	131

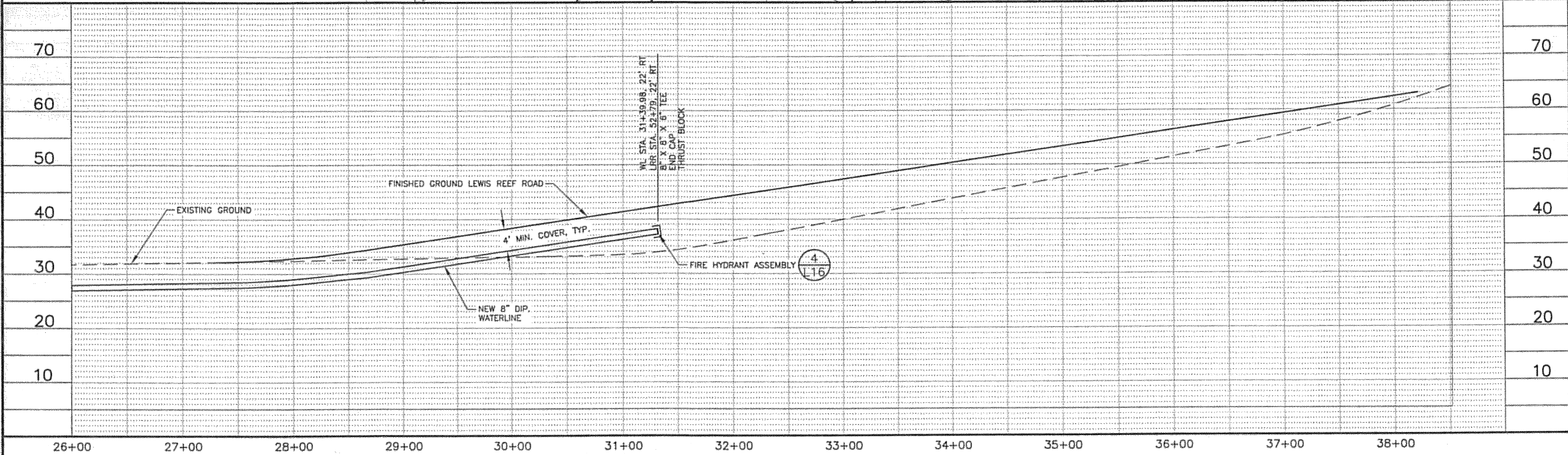
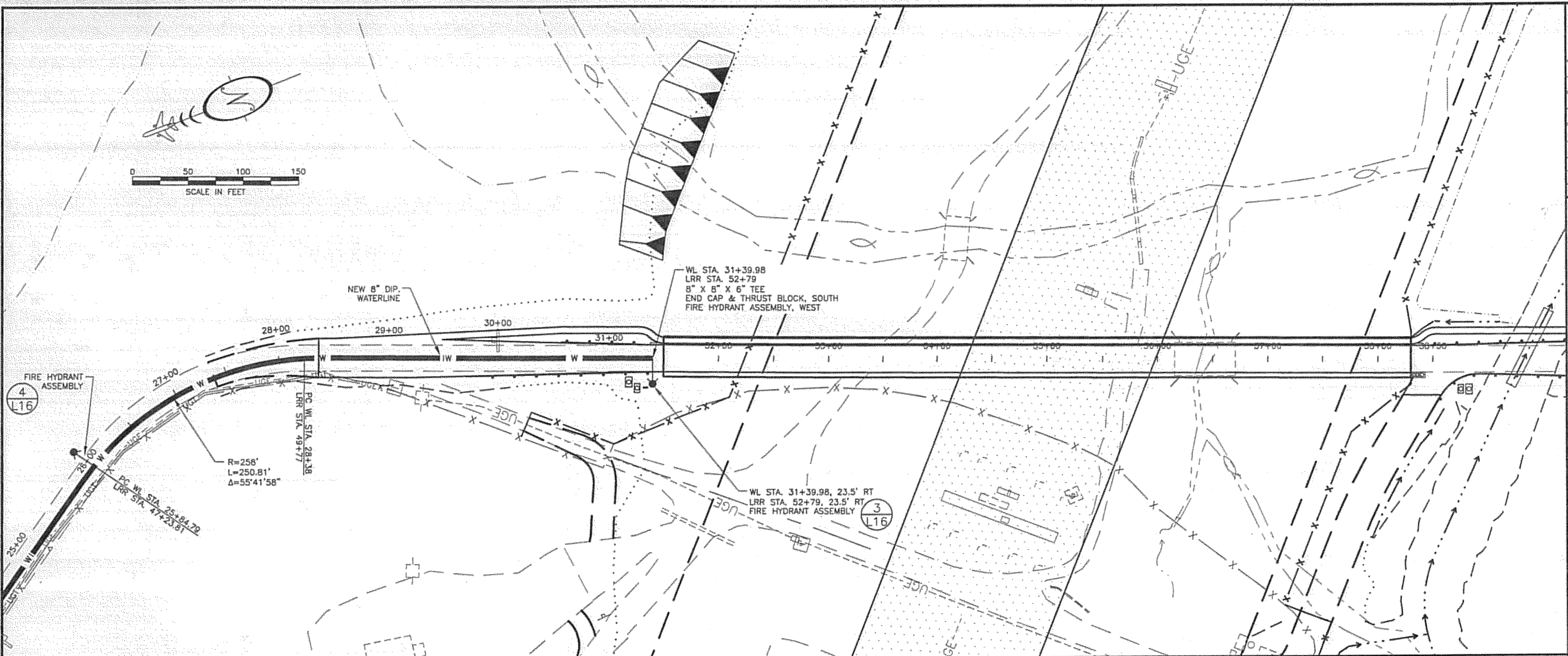
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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

LEWIS REEF ROAD TUNNEL
 PROJECT NO. 67858

WATERLINE PLAN & PROFILE



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

**WATERLINE
 PLAN & PROFILE**

PROJECT DESIGNATION
 68456

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
L19	131

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As Built Certification
 TO THE BEST OF MY KNOWLEDGE AND BELIEF
 THE DATA SUBMITTED IS CORRECT AND COMPLETE.

J. Sh
 8/16/10

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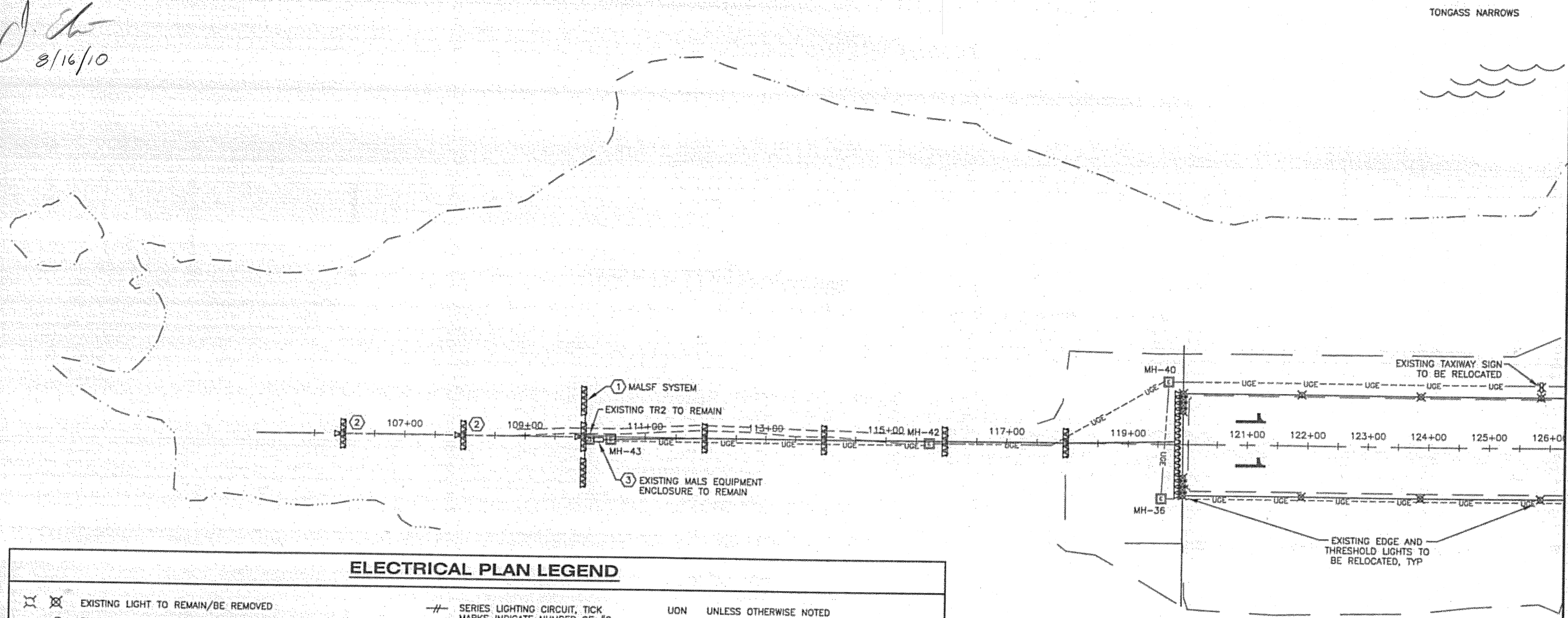
ADDENDUM NUMBER
 ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

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

ELECTRICAL DEMOLITION

MATCHLINE STA 126+25



ELECTRICAL PLAN LEGEND

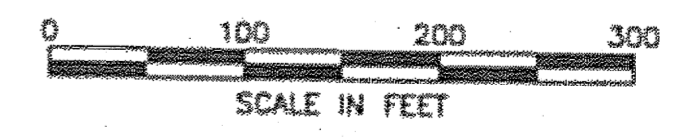
⊗	EXISTING LIGHT TO REMAIN/BE REMOVED	---	SERIES LIGHTING CIRCUIT, TICK MARKS INDICATE NUMBER OF #8 SKV SERIES CONDUCTORS IN 2" HDPE CONDUIT (2 SHOWN), INCLUDE #6 GROUND CONDUCTOR (NOT SHOWN), TICK MARKS NOT SHOWN ON SHORT SEGMENTS FOR CLARITY	UON	UNLESS OTHERWISE NOTED
○	RUNWAY EDGE LIGHT, 360° WHITE	---	SERIES LIGHTING CIRCUIT, TICK MARKS INDICATE NUMBER OF #8 SKV SERIES CONDUCTORS IN 2" RIGID STEEL CONDUIT (2 SHOWN), INCLUDE #6 GROUND CONDUCTOR (NOT SHOWN), TICK MARKS NOT SHOWN ON SHORT SEGMENTS FOR CLARITY	EMT	ELECTRICAL METALLIC TUBING
W/Y	RUNWAY EDGE LIGHT, 180° WHITE AND 180° YELLOW	EQUIPMENT NUMBER		RMC	RIGID METALLIC CONDUIT (GALVANIZED STEEL)
R/G	THRESHOLD LIGHT, 180° RED AND 180° GREEN	EX	TAXIWAY/RUNWAY EDGE LIGHT	HDPE	HIGH DENSITY POLYETHYLENE
●	TAXIWAY EDGE LIGHT, 360° BLUE	SX	LIGHTED SIGN	PVC	POLYVINYL CHLORIDE
⊗	EXISTING LIGHTED AIRPORT SIGN TO REMAIN/BE REMOVED	MH-X	MANHOLE	LFMC	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
⊞	NEW LIGHTED AIRPORT SIGN	S-X	SECTIONALIZER CABINET	LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
⊞	GROUND ROD, 3/4"x10' TYPICAL	JB-X	JUNCTION BOX	C	CONDUIT
⊞	NEW HANDHOLE (HH), TYPE I (LIGHT BASE WITH BLANK COVER)	P-X	PEDESTAL	BC	BARE COPPER
⊞	EXISTING ELECTRICAL MANHOLE TO REMAIN/BE REMOVED	P-X	PEDESTAL	TYP	TYPICAL
⊞	EXISTING COMMUNICATIONS PEDESTAL TO REMAIN/BE REMOVED	⊗	REFERENCE TO SHEET NOTE	GRD	GROUND
⊞	NEW ELECTRICAL MANHOLE	LIGHT COLORS AND DISTRIBUTIONS		CB	CIRCUIT BREAKER
⊞	NEW COMMUNICATIONS PEDESTAL, JUNCTION BOX (TYPE II), OR MANHOLE AS INDICATED	B	BLUE	NF	NON-FUSED
⊞	EXISTING TRANSFORMER TO REMAIN/BE REMOVED	Y	YELLOW	NDB	NON-DIRECTIONAL BEACON
⊞	NEW TRANSFORMER OR EXISTING TRANSFORMER TO BE RELOCATED	R	RED	PAPI	PRECISION APPROACH PATH INDICATOR
⊞	NEW SECTIONALIZER CABINET	G	GREEN	LHA	LIGHT HOUSING ASSEMBLY
⊞	JUNCTION BOX, TYPE II, SEE DOT STANDARD DETAIL L-23.01	W	WHITE	MALS	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH RUNWAY ALIGNMENT INDICATOR LIGHTS
⊞	BRANCH CIRCUIT HOMERUN WITH GROUND, NEUTRAL AND NUMBER OF HOT WIRES	BI	BI-DIRECTIONAL	MALSF	MEDIUM INTENSITY APPROACH LIGHTING WITH SEQUENCED FLASHERS
⊞	UNI	UNI	UNI-DIRECTIONAL	ASOS	AUTOMATED SURFACE OBSERVING SYSTEM
⊞	DMNI	DMNI	OMNI-DIRECTIONAL	RVR	RUNWAY VISUAL RANGE
T-2	INDICATES PANEL AND CIRCUIT NUMBER			VASI	VISUAL APPROACH SLOPE INDICATOR
---	EXISTING PRIMARY UNDERGROUND ELECTRICAL LINE TO REMAIN/BE REMOVED			RCO	RADIO COMMUNICATIONS OUTLET
---	EXISTING UNDERGROUND COMMUNICATIONS LINE TO REMAIN/BE REMOVED			DME	DISTANCE MEASURING EQUIPMENT
---	NEW PRIMARY UNDERGROUND ELECTRICAL LINE				
---	NEW UNDERGROUND COMMUNICATIONS LINE				
⊞	MALS SYSTEM LIGHT BAR				
▽	MALS SYSTEM FLASHER OR THRESHOLD LIGHT				

DEMOLITION NOTES:

- REMOVE EQUIPMENT INDICATED ON DEMOLITION PLANS UNLESS OTHERWISE NOTED. REMOVAL INCLUDES ALL ASSOCIATED CONDUIT, JUNCTION BOXES, CONDUCTORS, LIGHT BASES, TRANSFORMERS, CONTROLLERS, DRAIN CONDUITS, SUPPORT STRUCTURES, FOUNDATIONS, AND CONCRETE.
- REMOVE ALL UNUSED AND DECOMMISSIONED CONDUCTORS UNLESS OTHERWISE INDICATED. UNDERGROUND CONDUITS MAY BE ABANDONED IN PLACE UNLESS DISTURBED BY EXCAVATION ASSOCIATED WITH THIS PROJECT.
- WHEN REMOVING CONDUCTORS FROM EXISTING CONDUIT TO REMAIN, INSTALL A PULL ROPE FOR FUTURE USE.

SHEET NOTES:

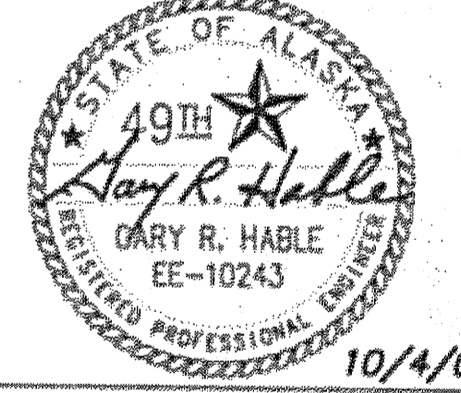
- REMOVE EXISTING MALSF SYSTEM, EXCEPT PORTIONS INDICATED OTHERWISE. EXISTING TOWERS, LIGHT BARS, FLASHERS, JUNCTION BOXES, AND BASE ASSEMBLIES TO BE REUSED. PROTECT AND STORE EQUIPMENT UNTIL REINSTALLED.
- EXISTING TOWER PLATFORM, TOWER, CONDUIT, JUNCTION BOXES, AND FLASHERS TO REMAIN. REMOVE ALL ASSOCIATED CONDUCTORS. REMOVE LIGHT BAR FROM TOWER.
- EXISTING MALSF CONTROLS TO REMAIN. REMOVE ALL MALSF CONDUCTORS LEAVING BUILDING. EXISTING CONDUITS PENETRATING BUILDING TO BE REUSED.



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH INC.

CHECKED BY: GRH



DESIGNED BY: LPS

DRAWN BY: LPS

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

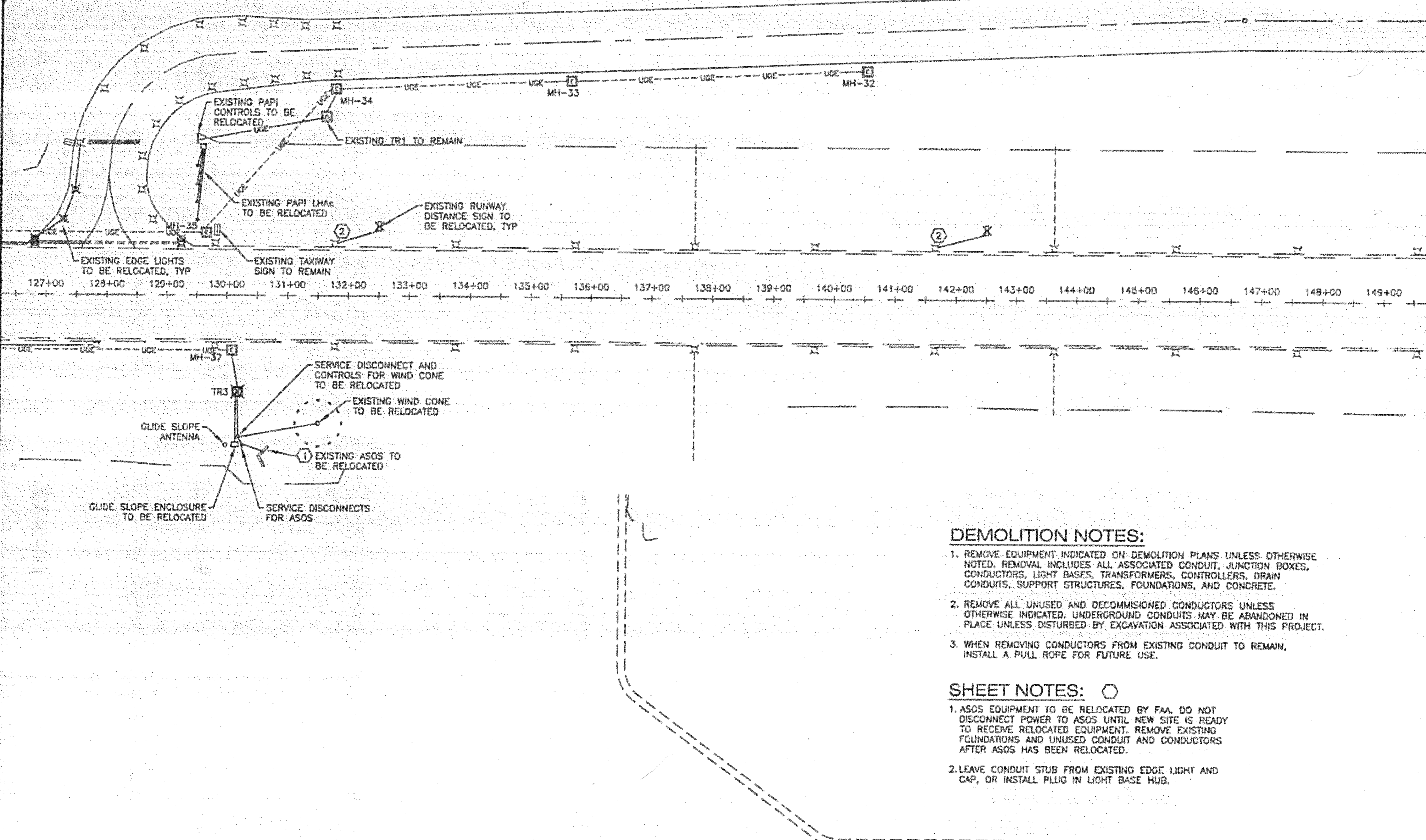
ELECTRICAL DEMOLITION

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

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G1	131

MATCHLINE STA 126+25

MATCHLINE STA 150+00



DEMOLITION NOTES:

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3. WHEN REMOVING CONDUCTORS FROM EXISTING CONDUIT TO REMAIN, INSTALL A PULL ROPE FOR FUTURE USE.

SHEET NOTES: ○

1. ASOS EQUIPMENT TO BE RELOCATED BY FAA. DO NOT DISCONNECT POWER TO ASOS UNTIL NEW SITE IS READY TO RECEIVE RELOCATED EQUIPMENT. REMOVE EXISTING FOUNDATIONS AND UNUSED CONDUIT AND CONDUCTORS AFTER ASOS HAS BEEN RELOCATED.
2. LEAVE CONDUIT STUB FROM EXISTING EDGE LIGHT AND CAP, OR INSTALL PLUG IN LIGHT BASE HUB.



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ATTACHMENT NUMBER

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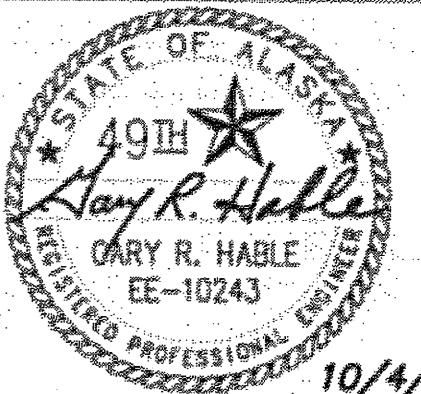
No.	DATE	DESCRIPTION

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

ELECTRICAL DEMOLITION

PREPARED BY: USKH INC.

CHECKED BY: GRH



DESIGNED BY: LPS

DRAWN BY: LPS

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

**ELECTRICAL
DEMOLITION**

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

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G2	131

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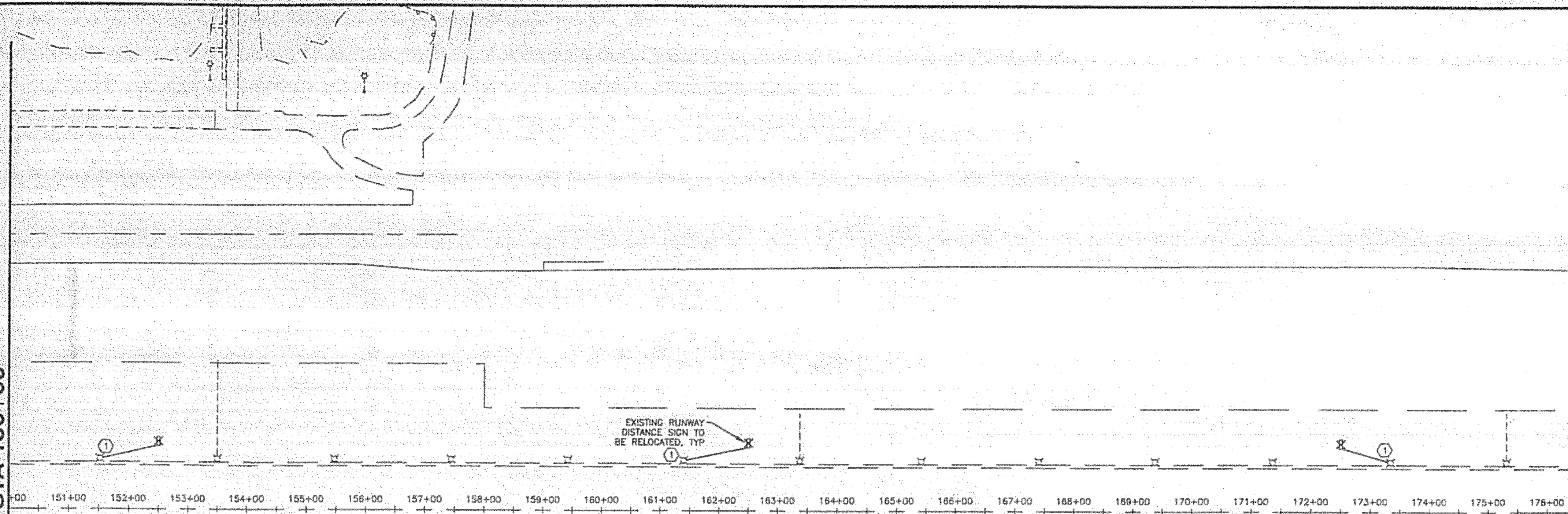
No.	DATE	DESCRIPTION

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

ELECTRICAL DEMOLITION

MATCHLINE STA 150+00

MATCHLINE STA 176+50



DEMOLITION NOTES:

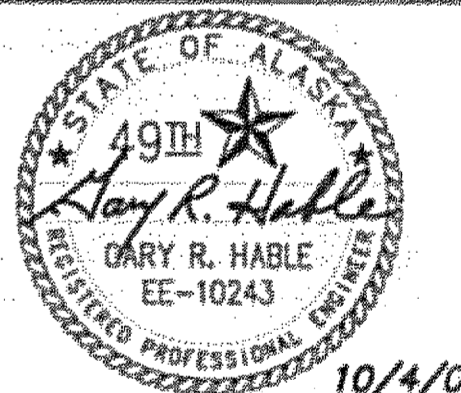
1. REMOVE EQUIPMENT INDICATED ON DEMOLITION PLANS UNLESS OTHERWISE NOTED. REMOVAL INCLUDES ALL ASSOCIATED CONDUIT, JUNCTION BOXES, CONDUCTORS, LIGHT BASES, TRANSFORMERS, CONTROLLERS, DRAIN CONDUITS, SUPPORT STRUCTURES, FOUNDATIONS, AND CONCRETE.
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3. WHEN REMOVING CONDUCTORS FROM EXISTING CONDUIT TO REMAIN, INSTALL A PULL ROPE FOR FUTURE USE.

SHEET NOTES: ○

1. LEAVE CONDUIT STUB FROM EXISTING EDGE LIGHT AND CAP, OR INSTALL PLUG IN LIGHT BASE HUB.

PREPARED BY: USKH INC.

CHECKED BY: GRH



DESIGNED BY: LPS

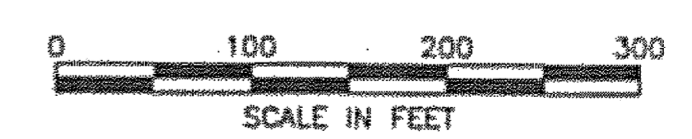
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
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 DIVISION - SOUTHEAST REGION

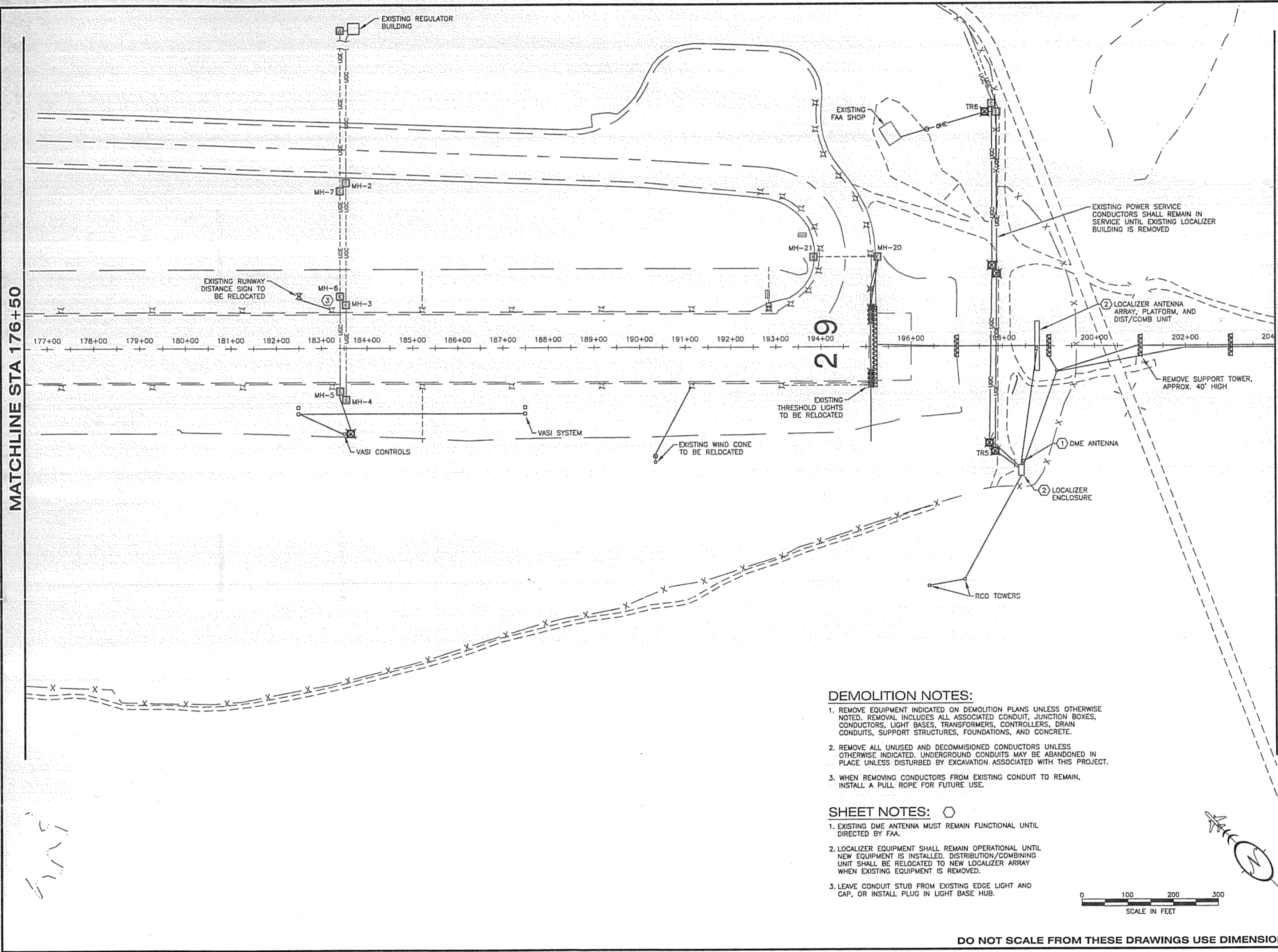
**ELECTRICAL
 DEMOLITION**

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

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G3	131



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ATTACHMENT NUMBER

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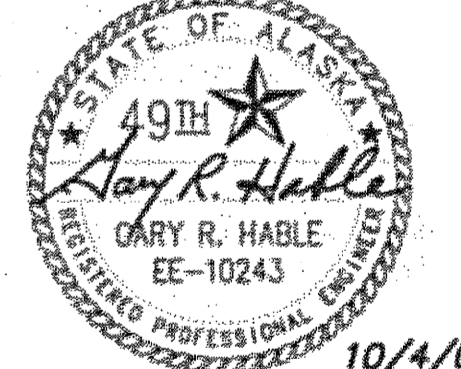
No.	DATE	DESCRIPTION

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

ELECTRICAL DEMOLITION

PREPARED BY: USKH INC.

CHECKED BY: GRH



DESIGNED BY: LPS

DRAWN BY: LPS

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

**ELECTRICAL
DEMOLITION**

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

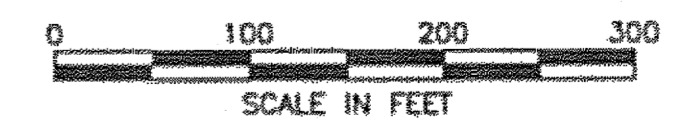
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G4	131

DEMOLITION NOTES:

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3. WHEN REMOVING CONDUCTORS FROM EXISTING CONDUIT TO REMAIN, INSTALL A PULL ROPE FOR FUTURE USE.

SHEET NOTES: ○

1. EXISTING DME ANTENNA MUST REMAIN FUNCTIONAL UNTIL DIRECTED BY FAA.
2. LOCALIZER EQUIPMENT SHALL REMAIN OPERATIONAL UNTIL NEW EQUIPMENT IS INSTALLED. DISTRIBUTION/COMBINING UNIT SHALL BE RELOCATED TO NEW LOCALIZER ARRAY WHEN EXISTING EQUIPMENT IS REMOVED.
3. LEAVE CONDUIT STUB FROM EXISTING EDGE LIGHT AND CAP, OR INSTALL PLUG IN LIGHT BASE HUB.



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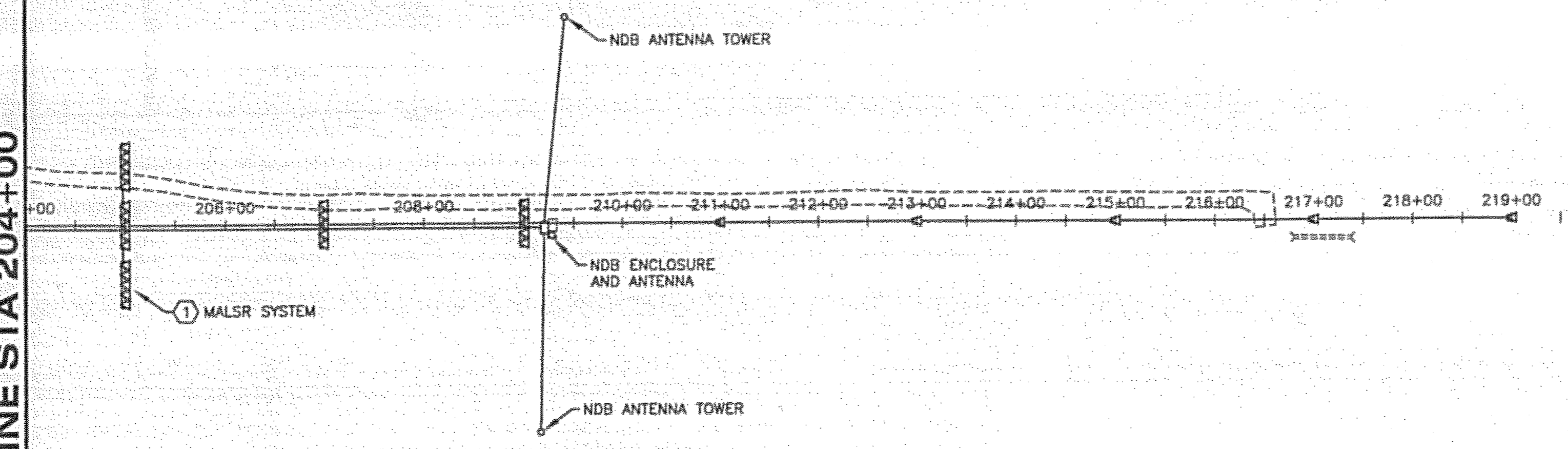
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

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

ELECTRICAL DEMOLITION

MATCHLINE STA 204+00



DEMOLITION NOTES:

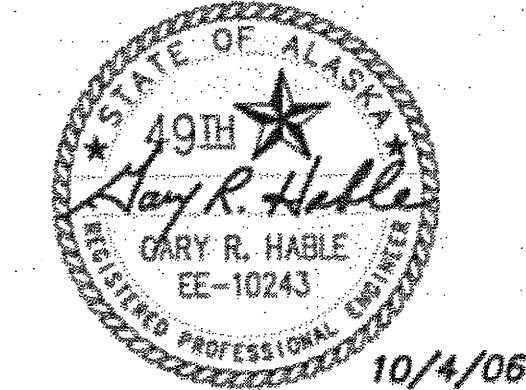
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3. WHEN REMOVING CONDUCTORS FROM EXISTING CONDUIT TO REMAIN, INSTALL A PULL ROPE FOR FUTURE USE.

SHEET NOTES: ○

1. REMOVE EXISTING MALS SYSTEM. EXISTING TOWER BASE ASSEMBLIES TO BE REUSED. PROTECT AND STORE EQUIPMENT UNTIL REINSTALLED.

PREPARED BY: USKH INC.

CHECKED BY: GRH



DESIGNED BY: LPS

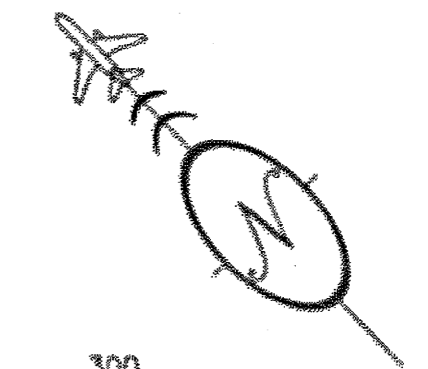
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
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 DIVISION - SOUTHEAST REGION

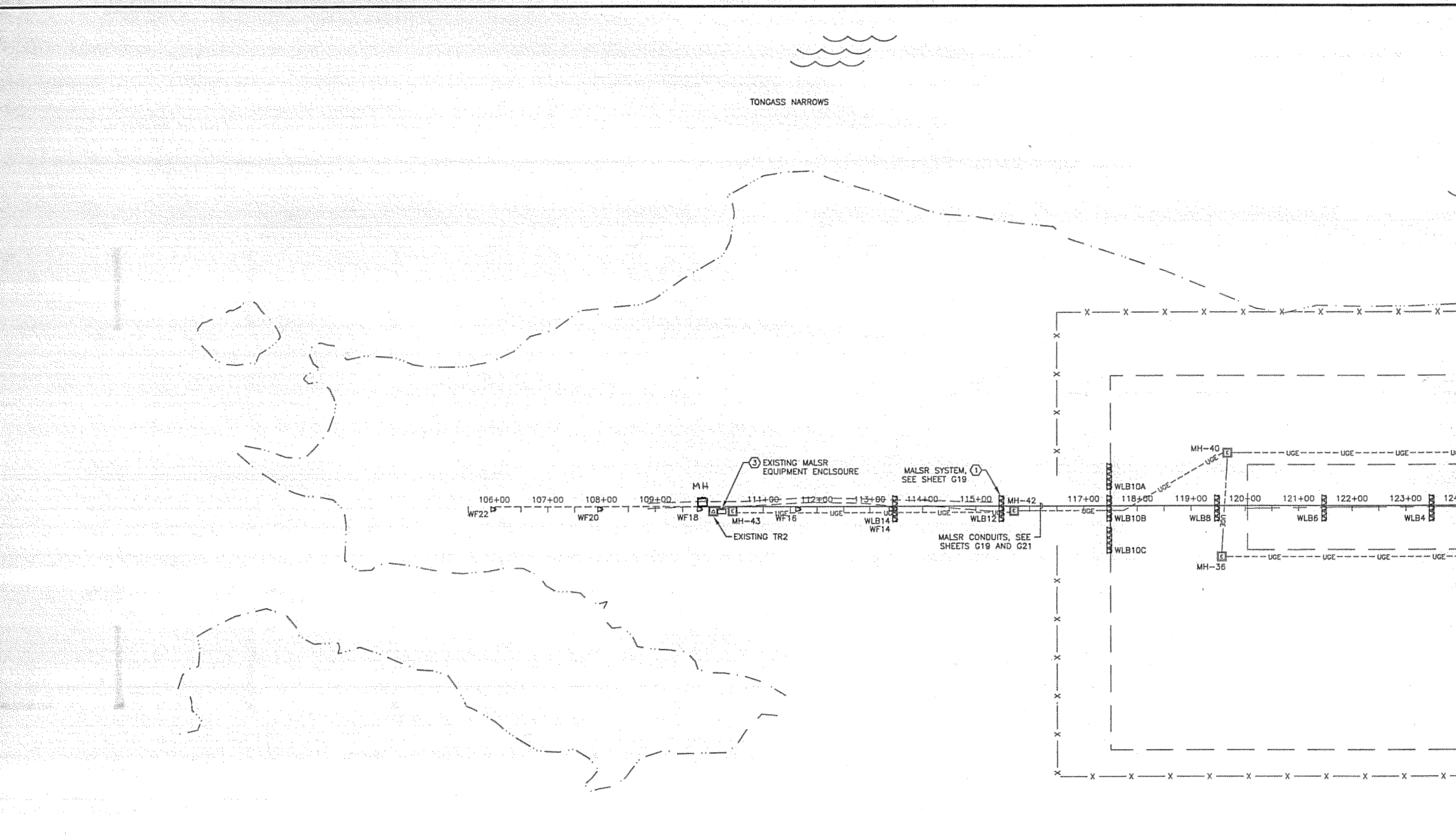
ELECTRICAL DEMOLITION

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

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G5	131



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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

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

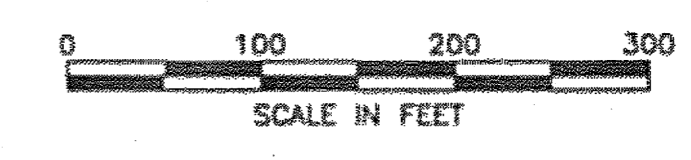
ELECTRICAL LAYOUT

PREPARED BY: USKH INC.
CHECKED BY: GRH

DESIGNED BY: LPS
DRAWN BY: LPS

SHEET NOTES:

1. REINSTALL EXISTING MALS EQUIPMENT AS A MALS SYSTEM. REPAIR OR REPLACE ANY DAMAGED COMPONENTS. SEE SHEETS G19 AND G21 FOR WORK REQUIRED AT EACH LOCATION.
2. NOT USED.
3. CONNECT NEW CONDUITS TO EXISTING CONDUITS LEAVING EXISTING MALS BUILDING. CONNECT NEW CONDUCTORS TO EXISTING MALS CONTROLS.



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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

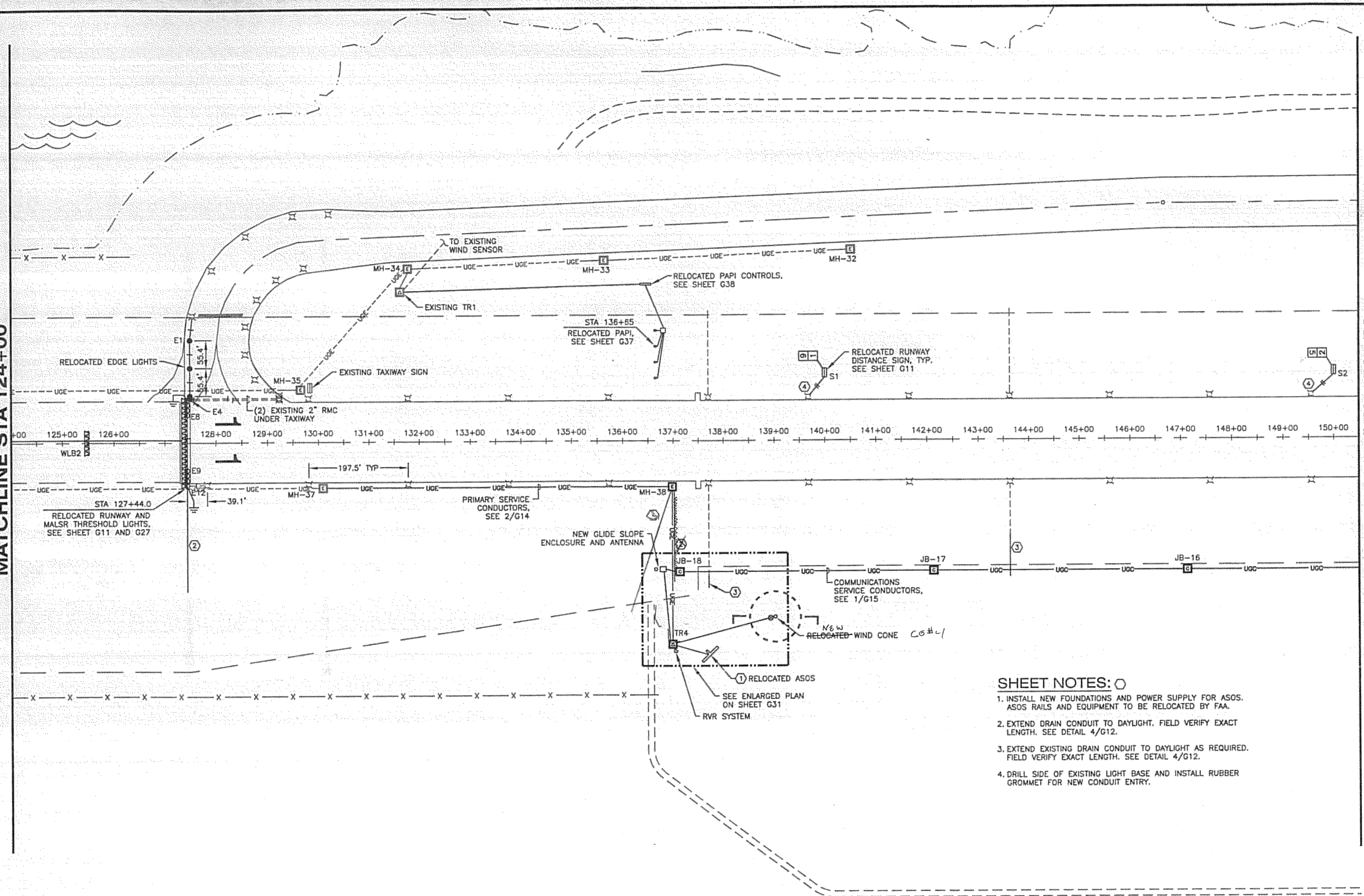
ELECTRICAL LAYOUT

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

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G6	131

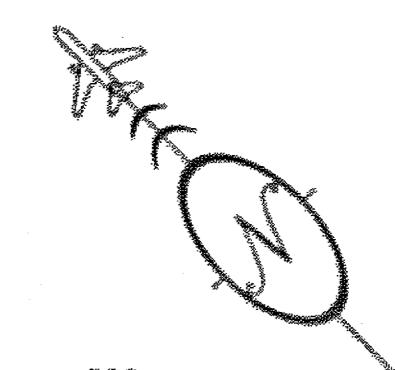
MATCHLINE STA 124+00

MATCHLINE STA 150+50



SHEET NOTES:

1. INSTALL NEW FOUNDATIONS AND POWER SUPPLY FOR ASOS. ASOS RAILS AND EQUIPMENT TO BE RELOCATED BY FAA.
2. EXTEND DRAIN CONDUIT TO DAYLIGHT. FIELD VERIFY EXACT LENGTH. SEE DETAIL 4/G12.
3. EXTEND EXISTING DRAIN CONDUIT TO DAYLIGHT AS REQUIRED. FIELD VERIFY EXACT LENGTH. SEE DETAIL 4/G12.
4. DRILL SIDE OF EXISTING LIGHT BASE AND INSTALL RUBBER GROMMET FOR NEW CONDUIT ENTRY.



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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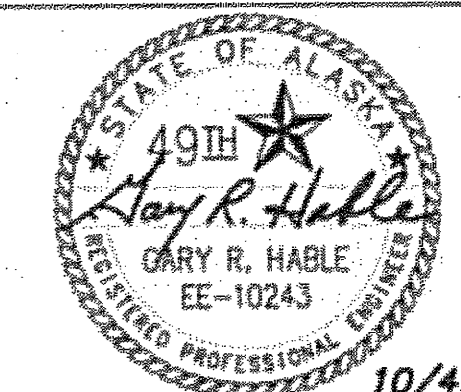
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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

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

ELECTRICAL LAYOUT

PREPARED BY: USKH INC.

CHECKED BY: GRH



DESIGNED BY: LPS

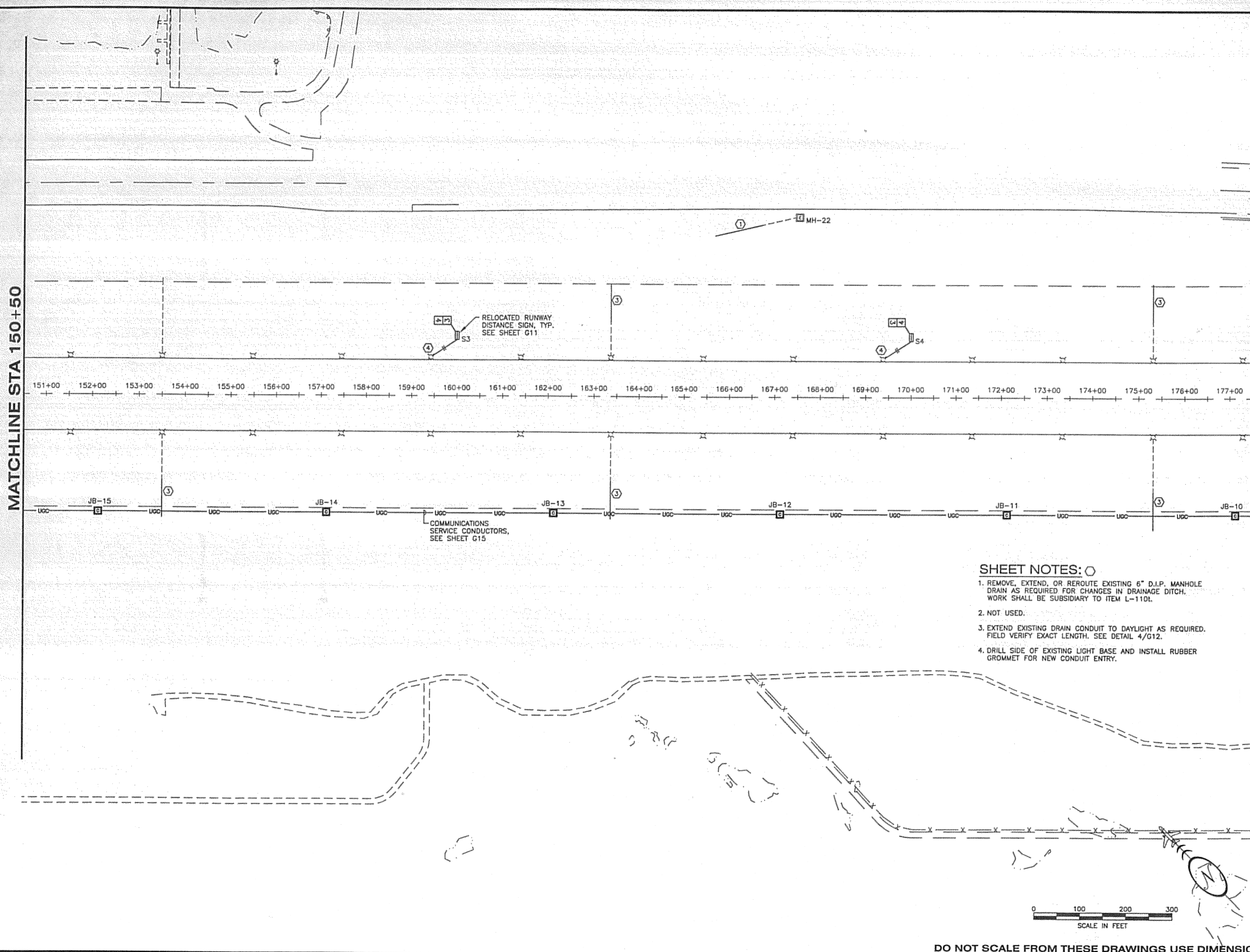
DRAWN BY: LPS

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

ELECTRICAL LAYOUT

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

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G7	131



MATCHLINE STA 150+50

MATCHLINE STA 177+50

SHEET NOTES:

1. REMOVE, EXTEND, OR REROUTE EXISTING 6" D.I.P. MANHOLE DRAIN AS REQUIRED FOR CHANGES IN DRAINAGE DITCH. WORK SHALL BE SUBSIDIARY TO ITEM L-110L.
2. NOT USED.
3. EXTEND EXISTING DRAIN CONDUIT TO DAYLIGHT AS REQUIRED. FIELD VERIFY EXACT LENGTH. SEE DETAIL 4/G12.
4. DRILL SIDE OF EXISTING LIGHT BASE AND INSTALL RUBBER GROMMET FOR NEW CONDUIT ENTRY.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

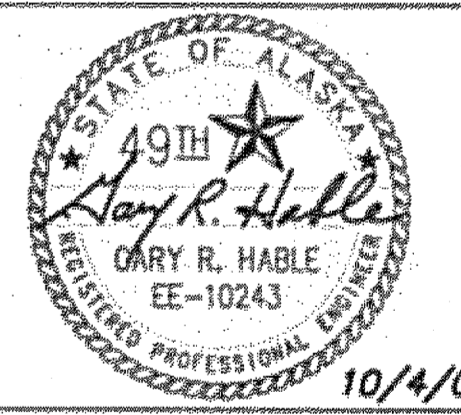
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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

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

ELECTRICAL LAYOUT

PREPARED BY: USKH INC.
 CHECKED BY: GRH



DESIGNED BY: LPS
 DRAWN BY: LPS

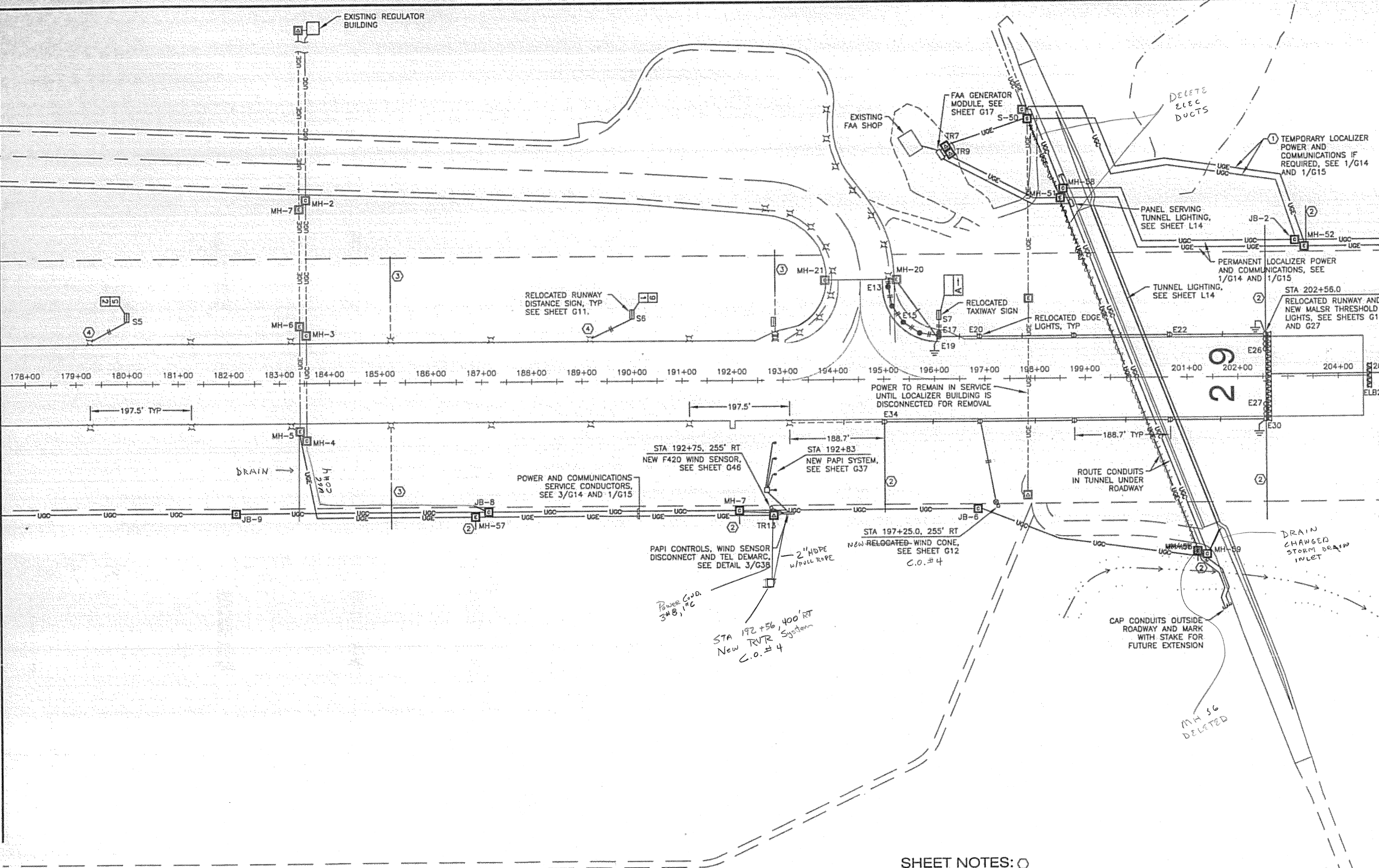
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SOUTHEAST REGION

ELECTRICAL LAYOUT

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

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G8	131

MATCHLINE STA 177+50



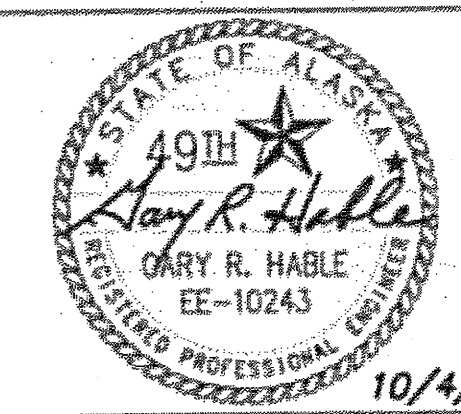
MATCHLINE STA 205+00

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

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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PREPARED BY: USKH INC.
 CHECKED BY: GRH



DESIGNED BY: LPS
 DRAWN BY: LPS

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

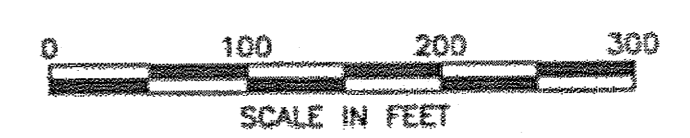
ELECTRICAL LAYOUT

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

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G9	131

SHEET NOTES:

1. INSTALL IN HDPE LAID ON SURFACE, REMOVE AFTER CONNECTION OF PERMANENT CONDUCTORS.
2. EXTEND DRAIN CONDUIT TO DAYLIGHT. FIELD VERIFY EXACT LENGTH. SEE DETAIL 4/G12.
3. EXTEND EXISTING DRAIN CONDUIT TO DAYLIGHT AS REQUIRED. FIELD VERIFY EXACT LENGTH. SEE DETAIL 4/G12.
4. DRILL SIDE OF EXISTING LIGHT BASE AND INSTALL RUBBER GROMMET FOR NEW CONDUIT ENTRY.



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