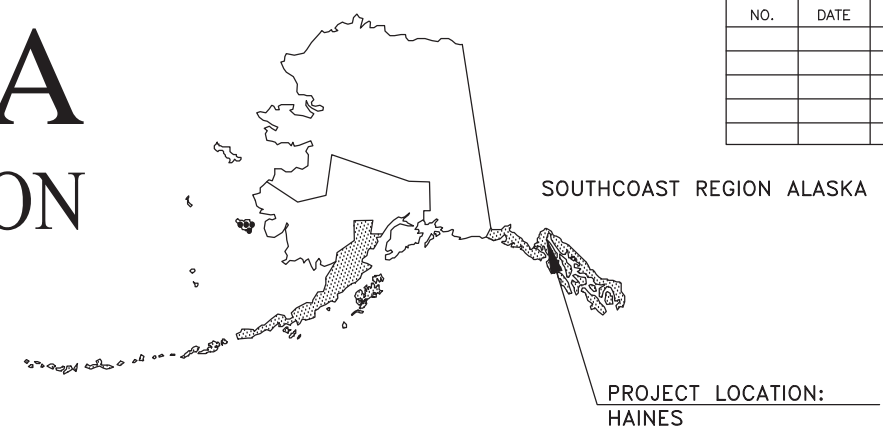


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# STATE OF ALASKA

## DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

NO.	DATE	REVISIONS	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00395/DR-4585-AK	2021	A1	5
				CDS ROUTE: 298020	MILEPOINT: 1.96		
				LATITUDE: 59.224262'	LONGITUDE: -135.416568'		



### PROPOSED HIGHWAY PROJECT

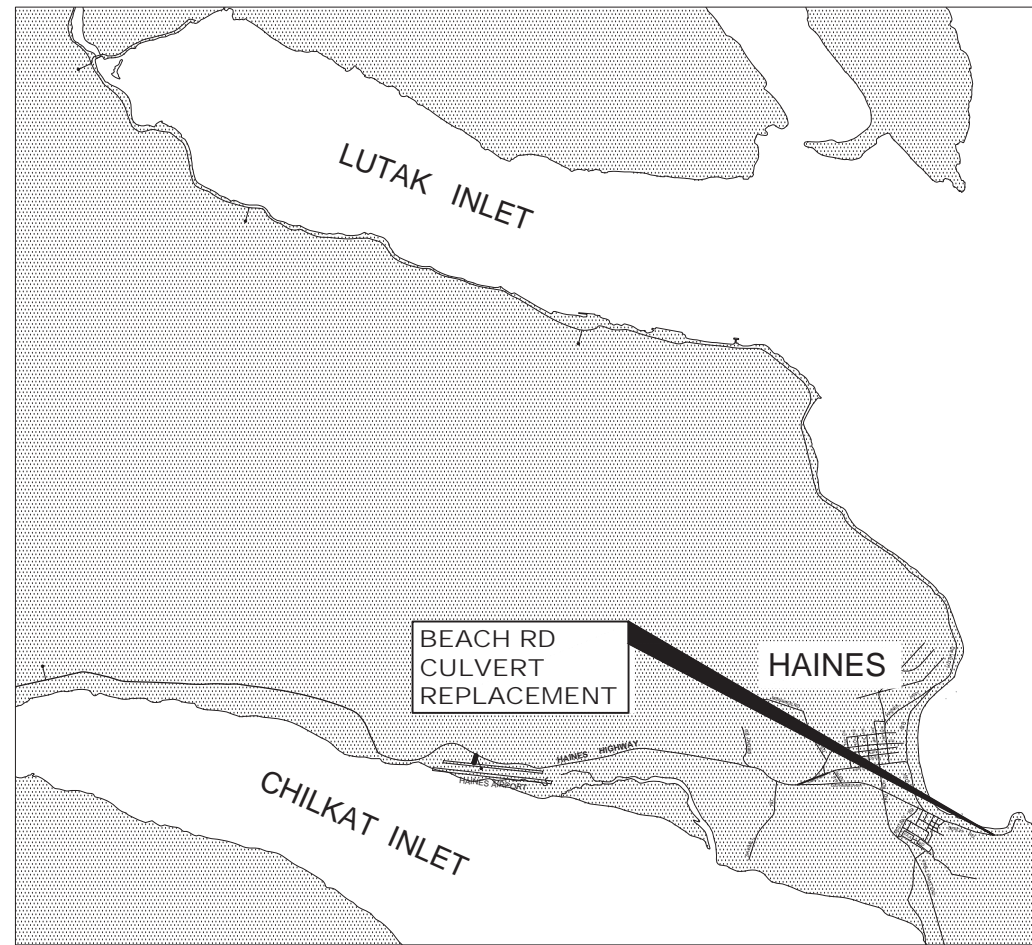
## HNS BEACH ROAD CULVERT REPLACEMENT DI461642 - DEC 20 SE PR

### PROJECT No. SDRER00395/DR-4585-AK

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND, SYMBOLS, & BASIS OF ESTIMATE
E1	DETAILS
F1	PLANS
T1	TRAFFIC CONTROL PLAN

As Advertised:  
October 26, 2021

**AS BUILTS**



VICINITY MAP

USE THESE PLANS IN CONJUNCTION WITH THE STATE OF ALASKA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2020 EDITION AND THE PROJECT SPECIAL PROVISIONS.

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801  
 (907) 465-1763

APPROVED:  
**Greg Lockwood** Digitally signed by Greg Lockwood  
 Date: 2021.10.12 07:48:55 -08'00' Acting for:

KIRK D. MILLER, P.E. REGIONAL PRECONSTRUCTION ENGINEER DATE

CONCUR: *[Signature]* 2021.10.12

*[Signature]* 09:00:49 -08'00' DATE  
 D. LANCE MEARIG, P.E. DIRECTOR, SOUTHCOAST REGION

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MU,MS

DRAFTED

DL

CHECKED

PW, RM, BW, AH

DESIGNED

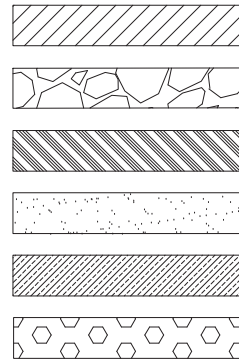
A3 LEGEND & SYMBOLS

**ABBREVIATIONS**

- ADF&G ALASKA DEPARTMENT OF FISH & GAME
- ADT AVERAGE DAILY TRAFFIC
- AK ALASKA
- ASDS ALASKA SIGN DESIGN SPECIFICATION
- BOP BEGINNING OF PROJECT
- CLR CLEARANCE
- CLSM CONTROLLED LOW STRENGTH MATERIAL
- CMP CORRUGATED METAL PIPE
- CPP CORRUGATED POLYETHYLENE PIPE
- CY CUBIC YARD
- DHV DESIGN HOURLY VOLUME
- DIA DIAMETER
- DWG DRAWING
- (E) EXISTING
- EOP END OF PROJECT
- ESAL EQUIVALENT SINGLE AXLE LOAD
- FT FOOT
- GALV GALVANIZED
- GRAIL GUARD RAIL
- HMA HOT MIX ASPHALT
- MIN MINIMUM
- MMA METHYL METHACRYLATE
- MPH MILES PER HOUR
- M&O MAINTENANCE AND OPERATIONS
- NTE NOT TO EXCEED
- N.T.S. NOT TO SCALE
- PC POINT OF CURVATURE
- PCE PERMANENT CONSTRUCTION EASEMENT
- PE PROFESSIONAL ENGINEER
- P.O.C. POINT ON CURVE
- PT POINT OF TANGENCY
- SF SQUARE FOOT
- SHLDR SHOULDER
- SHT SHEET
- SPECS SPECIFICATIONS
- STA STATION
- STD TEMPORARY CONSTRUCTION EASEMENT
- TCE STANDARD
- TCP TRAFFIC CONTROL PLAN
- TYP TYPICAL

**LINES & SYMBOLS**

- PIPE BEDDING
- DITCH LINING
- BASE COURSE
- UNSUITABLE MATERIAL OR EXCAVATION
- EXISTING PAVED OR AGGREGATE SURFACE
- BEDDING PLUG



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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**BASIS OF ESTIMATE**

ITEM DESCRIPTION	ESTIMATED QUANTITY
CLEARING AND GRUBBING	6 SY
REMOVAL OF PAVEMENT	35 SY
REMOVAL OF CULVERT PIPE	87 LF
UNCLASSIFIED EXCAVATION	10 CY
STRUCTURE EXCAVATION	50 CY
AGGREGATE BASE COURSE, GRADING D-1	40 TONS
RECONDITIONING	85 LF
CORRUGATED POLYETHYLENE PIPE, 24 INCH	90 LF
DITCH LINING	12 TONS
MOBILIZATION AND DEMOBILIZATION	10% OF OTHER ITEMS
EROSION, SEDIMENT, AND POLLUTION CONTROL	10% OF OTHER ITEMS
TRAFFIC MAINTENANCE	10% OF OTHER ITEMS
FLAGGING	60 HOURS

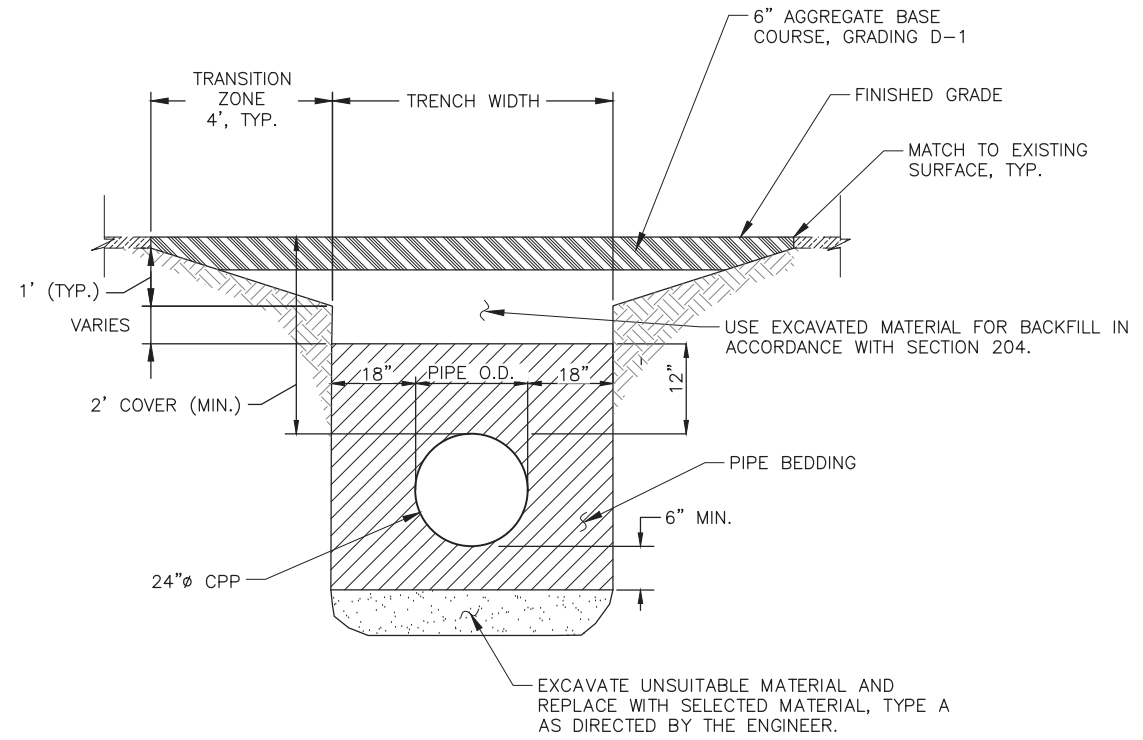


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION  
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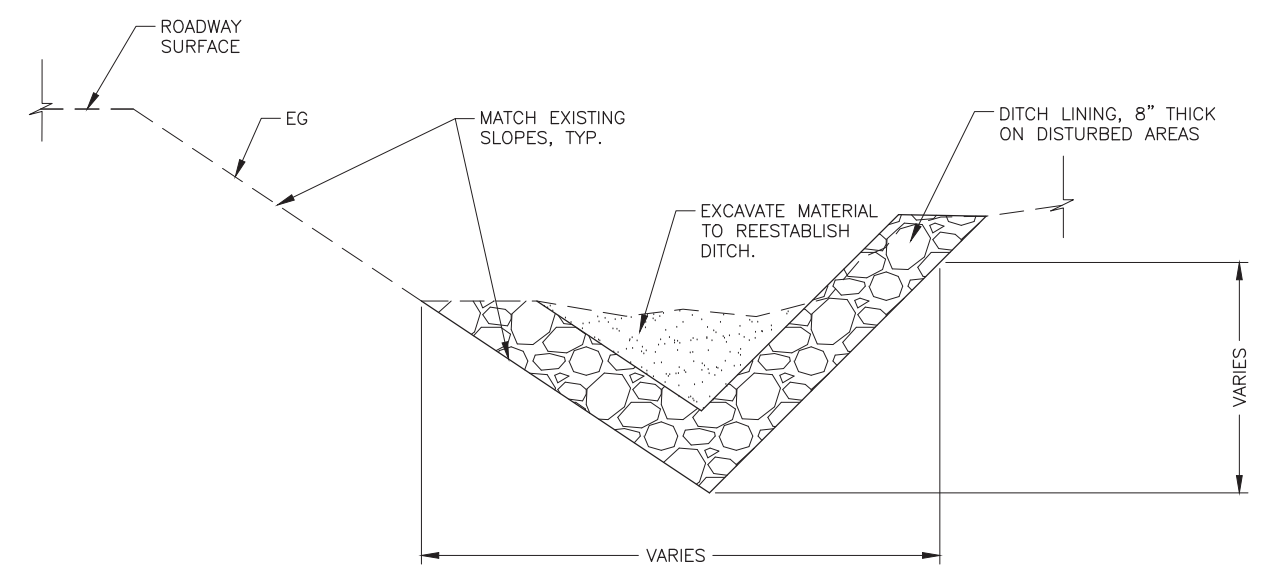
HNS BEACH ROAD CULVERT  
REPLACEMENT DI461642 - DEC 20  
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LEGEND, SYMBOLS, AND BASIS OF  
ESTIMATE

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00395/DR-4585-AK	2021	E1	5

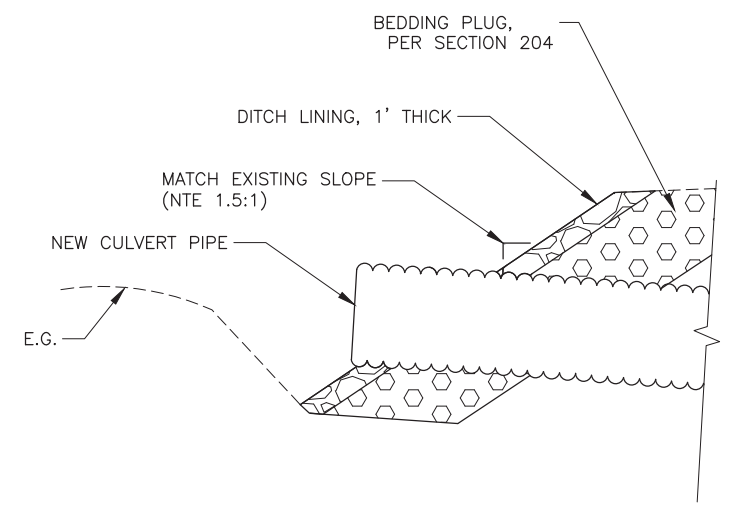
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**1 CULVERT BEDDING/BACKFILL**  
SCALE: N.T.S.



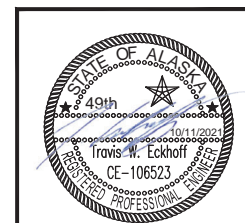
**3 DITCH RECONDITIONING**  
SCALE: N.T.S.



**2 CULVERT SLOPE STABILIZATION/BEDDING PLUG**  
SCALE: N.T.S.

**GENERAL NOTES:**

- OBTAIN ALL UTILITY LOCATES PRIOR TO EXCAVATION WORK.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 7 DAYS PRIOR TO BEGINNING FIELD WORK.
- THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER ON ANY PARTIAL ROAD CLOSURES FOR ADEQUATE PUBLIC NOTICES AT LEAST 3 DAYS PRIOR TO WORK.
- SAW CUT AND REMOVE EXISTING ASPHALT SURFACE TREATMENT AS REQUIRED FOR CULVERT INSTALLATION. MAKE ALL SAW CUTS STRAIGHT AND VERTICAL.
- DO NOT DISPOSE OF EXCESS MATERIAL WITHIN THE RIGHT-OF-WAY.



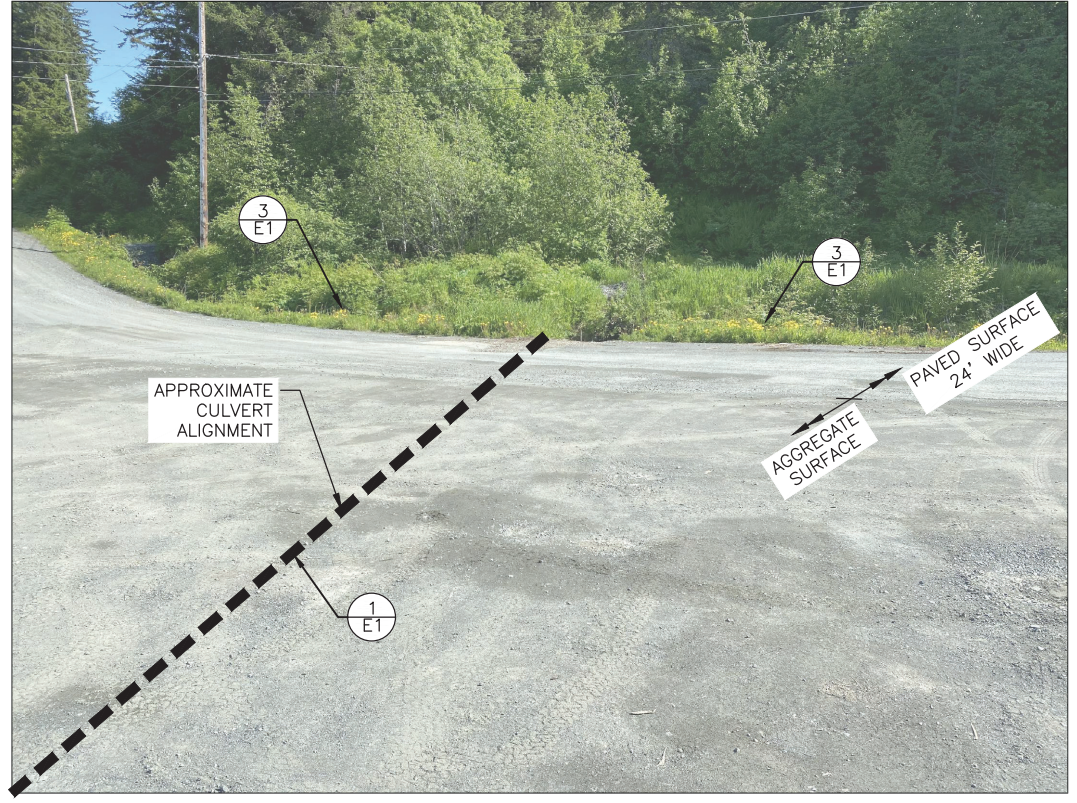
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

HNS BEACH ROAD CULVERT REPLACEMENT  
DI461642 - DEC 20 SE PR

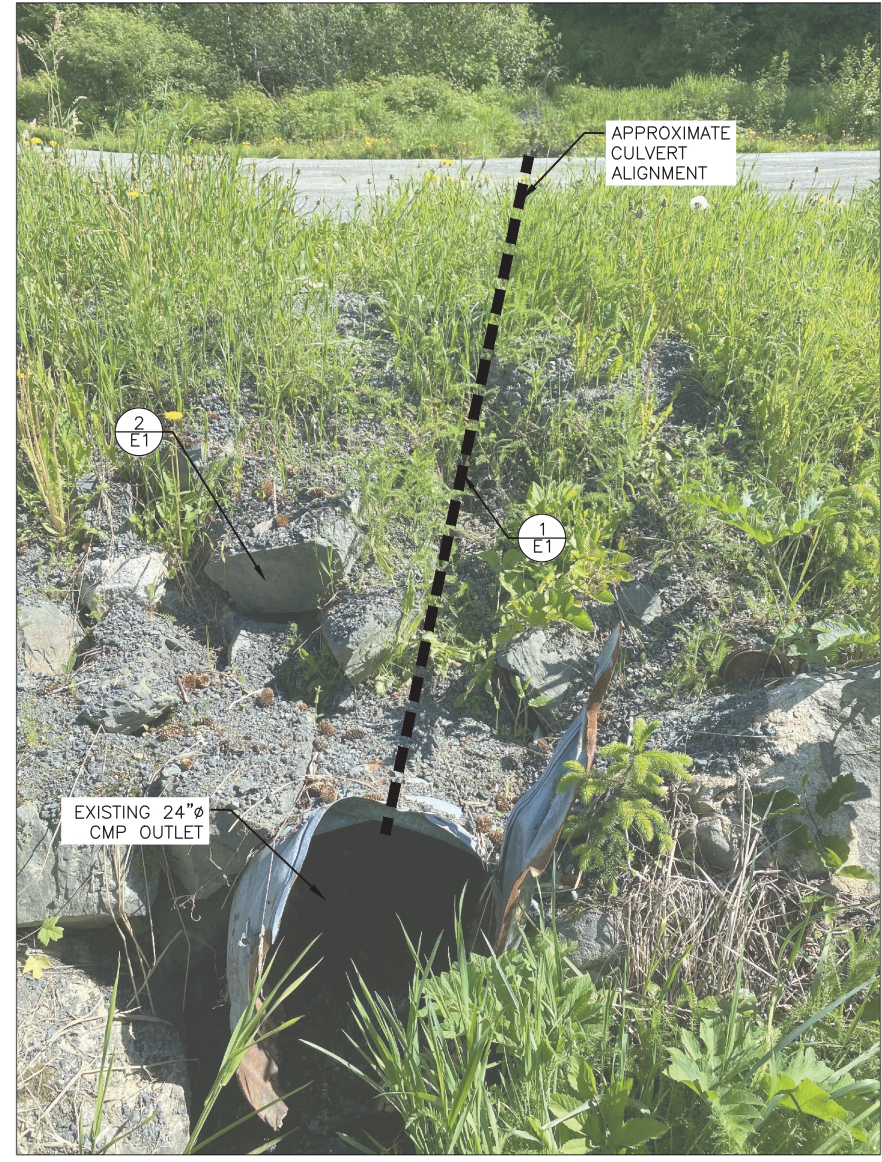
DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SDRER00395/DR-4585-AK	2021	F1	5

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1  
F1 **BEACH ROAD CULVERT REPLACEMENT, LOOKING TOWARDS INLET**  
SCALE: N.T.S., LATITUDE: 59.224262°, LONGITUDE: -135.416568°



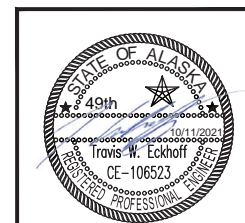
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F1 **BEACH ROAD CULVERT REPLACEMENT, EXISTING OUTLET**  
SCALE: N.T.S., LATITUDE: 59.224262°, LONGITUDE: -135.416568°



3  
F1 **BEACH ROAD CULVERT REPLACEMENT, EXISTING DITCH LOOKING UPHILL**  
SCALE: N.T.S., LATITUDE: 59.224262°, LONGITUDE: -135.416568°

**NOTES:**

1. DETOUR TRAFFIC AROUND WORK AREA AS NEEDED TO MAINTAIN AT LEAST ONE LANE OF TRAFFIC AT ALL TIMES.
2. APPROXIMATE PAVEMENT LIMITS ARE SHOWN.
3. REMOVE AND DISPOSE OF EXISTING CULVERT PIPE AND ASPHALT IN ACCORDANCE WITH SECTION 202.
4. INSTALL NEW 24" Ø CPP IN ACCORDANCE WITH SECTION 603.
5. STABILIZED DISTURBED SLOPES WITH DITCH LINING.
6. RECONDITION THE EXISTING DITCH IN ACCORDANCE WITH SECTION 303. APPROXIMATE RECONDITIONING LIMITS ARE 60 LINEAR FEET UPHILL FROM CULVERT INLET AND 25 LINEAR FEET BEYOND CULVERT INLET.



STATE OF ALASKA  
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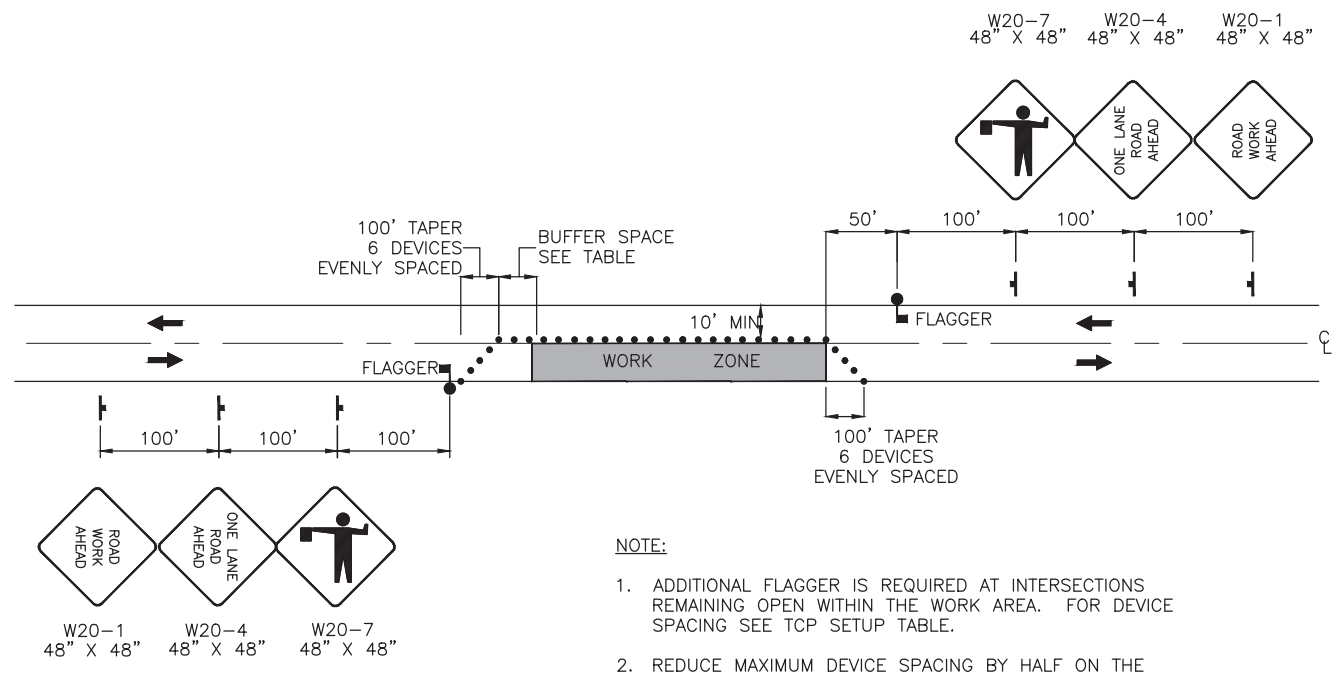
HNS BEACH ROAD CULVERT REPLACEMENT  
DI461642 - DEC 20 SE PR

BEACH ROAD CULVERT REPLACEMENT

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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TCP SETUP TABLE									
SPEED (MPH)	MIN MERGING TAPER LENGTH (L) IN FEET			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN			MAX DEVICE SPACING IN FEET		BUFFER SPACE
	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	(FT)
25 & BELOW	105	115	125	7	8	8	25	50	155
35	205	225	245	7	8	8	35	70	250



- NOTE:**
1. ADDITIONAL FLAGGER IS REQUIRED AT INTERSECTIONS REMAINING OPEN WITHIN THE WORK AREA. FOR DEVICE SPACING SEE TCP SETUP TABLE.
  2. REDUCE MAXIMUM DEVICE SPACING BY HALF ON THE TANGENT BETWEEN LIMITS OF THE WORK ZONE.

**TWO LANE ROADWAY-SINGLE LANE CLOSURE**

Due to sufficient width for two lanes of traffic, flaggers were not utilized.

**TRAFFIC CONTROL NOTES:**

1. ALLOW ACCESS THROUGH THE WORK ZONE FOR EMERGENCY SERVICES AT ALL TIMES.
2. TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".
3. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
4. DRIVEWAYS MAY BE CLOSED DURING ACTUAL WORK ON A GIVEN DRIVEWAY, PROVIDED THAT THE CLOSURE DOES NOT EXCEED 4 HOURS AND THE AFFECTED RESIDENTS HAVE BEEN GIVEN A MINIMUM 24 HOURS NOTICE OF THE CLOSURE.
5. VERTICAL EDGES GREATER THAN 2" ARE NOT ALLOWED DURING NON-WORKING HOURS. LIMIT SHOULDER EXCAVATION TO AN AREA THAT CAN BE COMPLETELY BACKFILLED BY END OF WORK SHIFT.
6. MINIMIZE THE LENGTH OF THE WORK AREA TO AVOID EXCESSIVE TRAFFIC DELAYS AS DIRECTED BY THE ENGINEER.
7. TRAFFIC CONTROL DEVICES, IF USED AT NIGHT, SHALL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.

LEGEND	
	FLAGGER
	CONSTRUCTION SIGN
	DRUMS
	CONE

TCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012.

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

HNS BEACH ROAD CULVERT REPLACEMENT  
DI461642 - DEC 20 SE PR

TRAFFIC CONTROL PLAN