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DRAWING LOCATION: Z:\PROJECT\2371.01 DOT_C H AND H SVCS KALIFORSKY BEACH RD MP 9.6 REPAIR\CIVIL\ACAD\2371.01-A01.DWG

STATE OF ALASKA

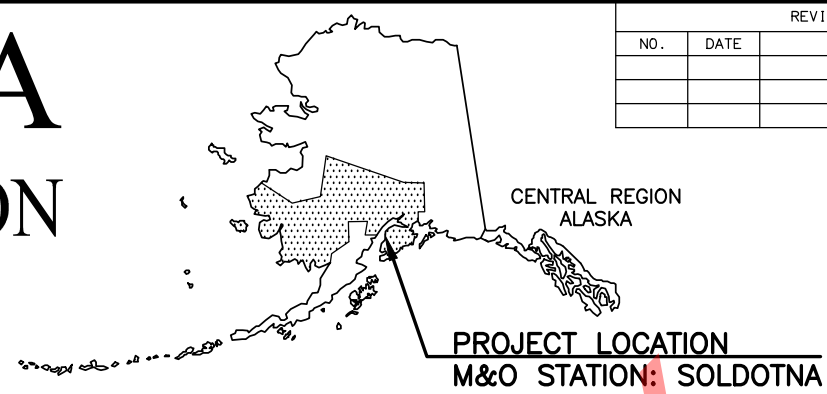
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

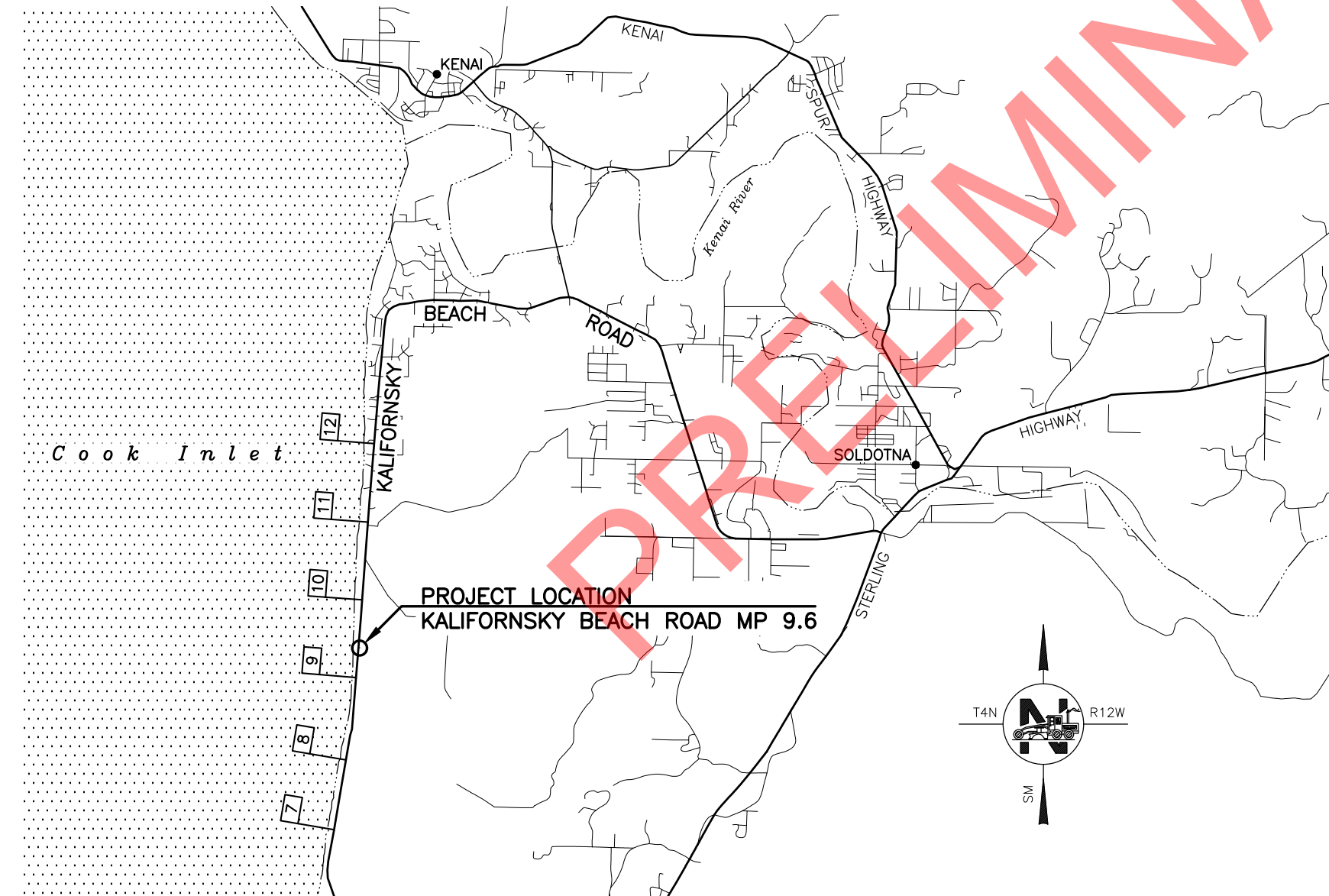
KALIFORSKY BEACH ROAD MP 9.6 REPAIRS

PROJECT NO. 0085002/Z579310000

GRADING, DRAINAGE, PAVING, AND STRIPING



REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL 'A' SHEETS	
NO.	DATE	DESCRIPTION						
			ALASKA	0085002/Z579310000	2018	A1	A4	
						PLAN SET TOTAL		12
REGION			CDS ROUTE: 115400		MILEPOINT: 9.6			
			LATITUDE: 60.451867		LONGITUDE: -151.281201			



PROJECT SUMMARY		
ROADWAY SECTION	WIDTH (FT)	LENGTH (FT)
KALIFORSKY BEACH ROAD	28	696

DESIGN DESIGNATIONS		
ROADWAY SECTION	A.A.D.T. 2015	POSTED SPEED
KALIFORSKY BEACH ROAD	1,929	55 MPH

PLANS DEVELOPED BY: R&M CONSULTANTS, INC.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
4111 AVIATION AVENUE, ANCHORAGE, AK 99502
(907)269-0590

APPROVED:

REGIONAL PRE-CONSTRUCTION ENGINEER _____ DATE _____

CONCUR:

REGIONAL CONSTRUCTION ENGINEER _____ DATE _____

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GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT-OF-WAY (ROW), TEMPORARY CONSTRUCTION EASEMENTS, AND TEMPORARY CONSTRUCTION PERMITS, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
- THE ROW LINES SHOWN ARE FROM RECORD MAPPING PROVIDED BY DOT, PLAT NO. K-756 KENAI RECORDING DISTRICT AND RIGHT-OF-WAY PLAT ALASKA PROJECT NO. S-0463(2), AND SURVEYED MONUMENTS ON THE GROUND. THE ROW LINES WERE INSERTED USING A COMMON COORDINATE SYSTEM.
- DO NOT DISPOSE OF EXCESS MATERIAL WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
- ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATE METHOD APPROVED BY THE ENGINEER.
- WHEN NEW EMBANKMENT IS TO BE COMPACTED AGAINST EXISTING EMBANKMENT, BENCH SLOPES ACCORDING TO SUBSECTION 203-3.03.
- SHAPE AGGREGATE BASE COURSE, GRADING D-1 AT THE EDGE OF PAVEMENT WITHIN 48 HOURS OF PAVING TO ENSURE THERE IS NO DROP AT THE EDGE OF PAVEMENT.
- PLACE 4" OF TOPSOIL AND SEED ANY AREAS WITHIN THE RIGHT-OF-WAY DISTURBED BY CONSTRUCTION, OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- EXCEPT AS NOTED OTHERWISE, CLEARING LIMITS SHALL BE 10' BEYOND THE SLOPE STAKE CATCH POINT, OR TO THE RIGHT-OF-WAY LINE, WHICHEVER IS LESS. IN WETLAND AREAS, DO NOT CLEAR BEYOND THE SLOPE STAKE CATCH POINT UNLESS OTHERWISE SHOWN IN THE PLANS.
- GRUBBING LIMITS SHALL BE THE SLOPE STAKE CATCH POINT.

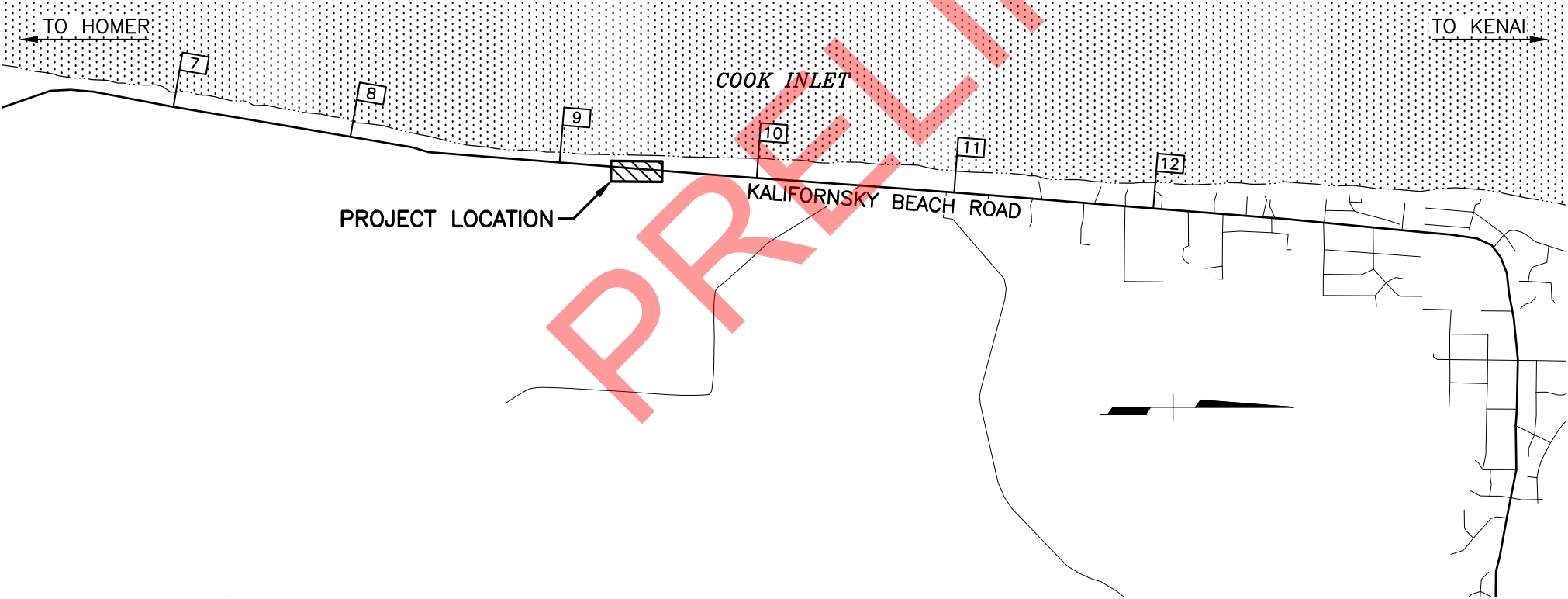
ABBREVIATIONS			
Δ	DELTA ANGLE	MI	MILE
AADT	ANNUAL AVERAGE DAILY TRAFFIC	MP	MILEPOST
BOP	BEGINNING OF PROJECT	N	NORTH, NORTHING
CL	CENTERLINE	NTS	NOT TO SCALE
CMP	CORRUGATED METAL PIPE	OFF	OFFSET
CSP	CORRUGATED STEEL PIPE	PCF	POUNDS PER CUBIC FOOT
CY	CUBIC YARD	PG	PROFILE GRADE
D	DEGREE OF CURVATURE, DIAMETER	PI	POINT OF INTERSECTION
DHV	DESIGN HOURLY VOLUME	POT	POINT ON TANGENT
DOT&PF	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	ROW	RIGHT-OF-WAY
DWG	DRAWING	R	RADIUS
E	EAST, EASTING	RT	RIGHT
EA	EACH	SF	SQUARE FEET
EL, ELEV	ELEVATION	SHLD	SHOULDER
EOP	END OF PROJECT	SSHC	STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION
FT	FEET, FOOT	STA	STATION
H	HEIGHT	SY	SQUARE YARD
HMA	HOT MIX ASPHALT	T	TANGENT, TRUCKS
IN	INCH	TYP	TYPICAL
L	LENGTH	V	DESIGN SPEED
LF	LINEAR FEET	VPI	VERTICAL POINT OF INTERSECTION
LT	LEFT	W	WEST, WIDTH
ME	MATCH EXISTING		

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	ALASKA	0085002/Z579310000	2018	A2	A4

SHEET INDEX

SHEET NO.	DESCRIPTION
A1 TO A3	TITLE, ABBREVIATIONS, SHEET INDEX, SCHEMATIC LAYOUT, & LEGEND
A4	SURVEY CONTROL SHEET
B1 TO B2	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES, TABLE OF ESTIMATING FACTORS
E1 TO E3	DETAIL SHEETS
F1 TO F2	PLAN & PROFILE SHEETS

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:
C-04.12, C-05.20
D-01.02, D-04.21, D-07.00, D-31.01
T-21.03



SCHEMATIC LAYOUT

SPECIFICATION:
CONSTRUCT THE IMPROVEMENTS COVERED BY THESE PLANS IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES 2017 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE PROJECT SPECIAL PROVISIONS.



R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, AK 99507
(907) 522-1707
CERT. OF AUTH. NO. AECC111

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
KALIFORNISKY BEACH ROAD
MP 9.6 REPAIRS

ABBREVIATIONS, SHEET INDEX,
AND SCHEMATIC LAYOUT

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SCALE

LAYOUT
A3

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UTILITIES		
	EXISTING	PROPOSED
STORM DRAIN STRUCTURES AND PIPE NUMBERS		
STORM DRAIN	SD	
STORM DRAIN MANHOLE		
CURB INLET CATCH BASIN		
FIELD INLET CATCH BASIN		
PIPE CULVERT w/END SECTION		
CLEANOUT	CO	
SANITARY SEWER	SS	
SANITARY SEWER MANHOLE		
SEPTIC VENTS		
WATER	W	
FIRE HYDRANT		
WELL		
VALVE OR RISER		
NATURAL GAS	G	
OIL OR GASOLINE PIPELINE	O	
ELECTRIC (OVERHEAD)	OHE	
ELECTRIC (DIRECT BURY)	E	
ELECTRIC (OVERHEAD WITH TELE)	OHE/T	
UTILITY POLE		
UTILITY POLE w/LUMINAIRE		
GUY POLE	GP	
GUY WIRE ANCHOR		
TRANSMISSION TOWER [WOOD]		
TRANSMISSION TOWER [STEEL]		
ELECTRICAL PEDESTAL		
ELECTRICAL TRANSFORMER		
ELECTRIC METER		
ELECTRICAL OUTLET		
ELECTRIC MANHOLE		
TELEPHONE (OVERHEAD)	OT	
TELEPHONE (DIRECT BURY)	UT	
TELEPHONE (DIRECT BURY WITH TV)	UT/TV	
TELEPHONE PEDESTAL		
TELEPHONE MANHOLE		
FIBER OPTIC	FO	
FIBER OPTIC MANHOLE		
CABLE TV (OVERHEAD)	OTV	
CABLE TV (DIRECT BURY)	TV	
CABLE TV PEDESTAL		
SATELLITE DISH		
UG DUCT (E, T, FO)		

UTILITIES		
	EXISTING	PROPOSED
ELECTROLIER		
HIGHTOWER		
SIGNAL POLE WITH MAST		
PEDESTRIAN PUSH BUTTON		
RURAL BEACON		
SCHOOL ZONE BEACON		
RIGHT-OF-WAY		
	EXISTING	PROPOSED
PRIMARY CENTERLINE MONUMENT		
SECONDARY CENTERLINE MONUMENT		
PROJECT RIGHT-OF-WAY LINES		
CONTROLLED ACCESS LINE		
TEMPORARY CONSTRUCTION EASEMENT/PERMIT		
PROJECT CENTERLINE		
RAILROAD CENTERLINE		
EXISTING TOPOGRAPHY		
CONIFER TREE OR TREES		
DECIDUOUS TREE OR TREES		
SHRUB OR SHRUBS		
WETLANDS		
CREEK		
RIVER		
LAKE/POND		
MISCELLANEOUS		
	EXISTING	PROPOSED
BUILDING		
TANKS ABOVE GROUND UNDER GROUND		
PRIVATE SIGN		
POST/BOLLARDS		
MAILBOX		
TRAFFIC SIGN		
TRAFFIC SIGN POST #		
VENT		

ROADWAY		
	EXISTING	PROPOSED
ROADWAY OBLITERATION		
LIMIT OF CUT SLOPE		
LIMIT OF FILL SLOPE		
EDGE OF PAVEMENT		
CONCRETE CURB		
CONCRETE CURB & GUTTER		
CONCRETE CURB CUT		
SIDEWALK		
CURB RAMPS PARALLEL		
PERPENDICULAR		
MID-BLOCK		
UNIDIRECTIONAL		
DETECTABLE WARNING TILES		
DRIVEWAY APPROACH		
GRAVEL EDGE		
PATH/TRAIL		
BRIDGE		
TUNNEL		
NOISE BARRIER		
FENCE		
RETAINING WALL		
HEAD & WINGWALLS		
GUARDRAIL END SECTION PARALLEL GUARDRAIL SECTION		
SPECIAL DITCH		
BOTTOM OF DITCH		
RIPRAP		
BOULDER OR BOULDERS		
MILEPOST		

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	ALASKA	0085002/Z579310000	2018	A3	A4

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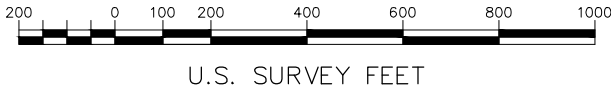
KALIFORNISKY BEACH ROAD
MP 9.6 REPAIRS

LEGEND

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SURVEY NOTES

1. The information shown hereon is based on a field survey performed by R&M Consultants, Inc. between April 11 and April 14, 2017. Survey information can be found in Field book No. 2371.01, Pages 1 thru 14.
2. The survey control shown hereon is based on the Survey Control Diagram recorded in the Kenai Recording District as Record of Survey No. 2015-18. All survey control was field verified and horizontal and vertical information was updated as necessary.
3. All dimensions and coordinates shown are in U.S. Survey Feet, unless otherwise noted.



VERTICAL SURVEY CONTROL				
Point #	Northing	Easting	Elevation	Raw Description
621	60638	96853	60.32	TBM Fd Spike: TBM-621 15" Dia. Birch KBR Rehab.
622	63277	96877	60.13	TBM Fd Spike: TBM-622 10" Dia. Spruce KBR Rehab.
623	65861	96957	62.79	TBM Fd Spike: TBM-623 12" Dia. Cottonwood KBR Rehab.

PROJECT CENTERLINE			
Point #	Northing	Easting	Raw Description
10	60539.0719	96843.0643	Fd BD/SS ROD[DOT]: K-BEACH GPS-10
11	65715.9933	96938.7286	Fd BD/SS ROD[DOT]: K-BEACH GPS-11
429	62063.7708	96777.9888	Fd Rbr/AC[10161-S]: K-BEACH CP-429
430	63371.5596	96792.5096	Fd Rbr/AC[10161-S]: K-BEACH CP-430
431	64599.4025	96805.2230	Fd Rbr/AC[10161-S]: K-BEACH CP-431

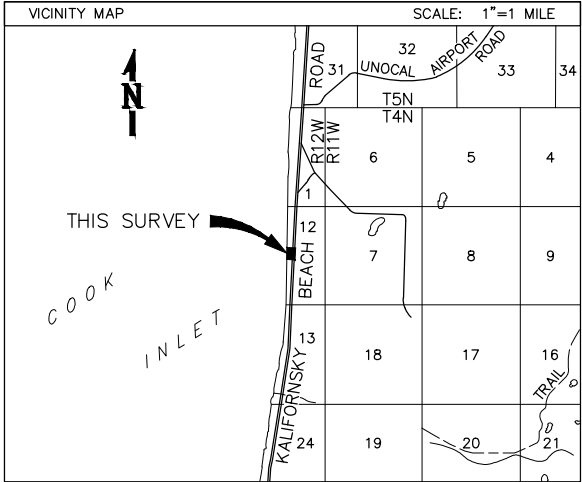
PROJECT CENTERLINE			
Point #	Northing	Easting	Raw Description
500	63102.8223	96771.8197	EOP 18+60.00
501	62242.8718	96762.5951	BOP 10+00.00

REVISIONS		
NO.	DATE	DESCRIPTION

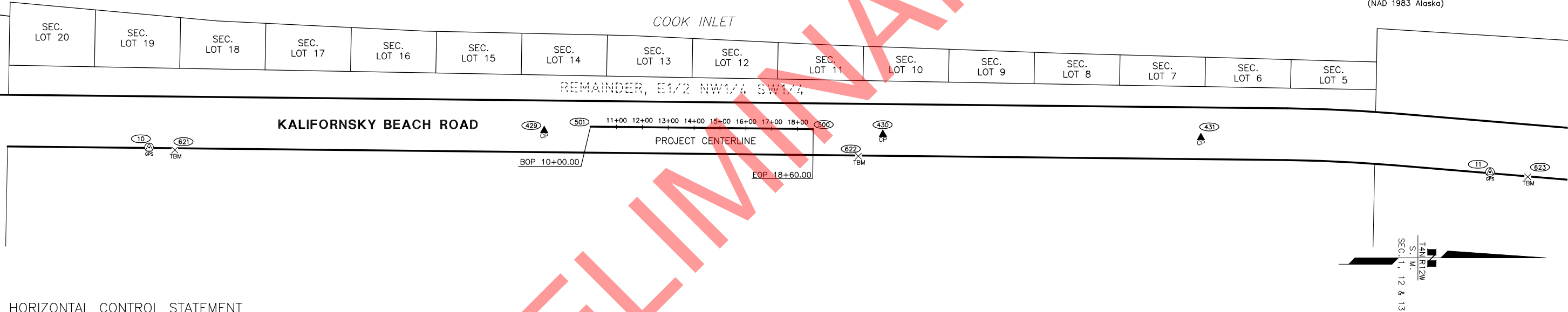
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0085002/Z579310000	2018	A4	A4

MONUMENT LEGEND

- GPS PRIMARY GPS CONTROL MONUMENT
CP SURVEY CONTROL POINT
TBM TEMPORARY BENCH MARK
XXX SURVEY CONTROL POINT



Magnetic Declination: 15°49' E Computed For June 28, 2017 From the National Geophysical Data Center Website AT WWW.NGDC.NOAA.GOV
LOCATION
60°27'00" N 151°16'52" W
(NAD 1983 Alaska)



HORIZONTAL CONTROL STATEMENT

COORDINATE SYSTEM:
This project is located entirely within the Kenai-1 CORS adjustment, a U.S. Survey Foot local surface grid coordinate system developed by the Alaska Department of Transportation.

BASIS OF COORDINATES:
The Basis of Coordinates is NGS Station SXQ D, located near the intersection of the taxiway and apron at the Soldotna Airport. Said station has Kenai-1 coordinates of 70,749.2232 N, 140,147.1642 E.

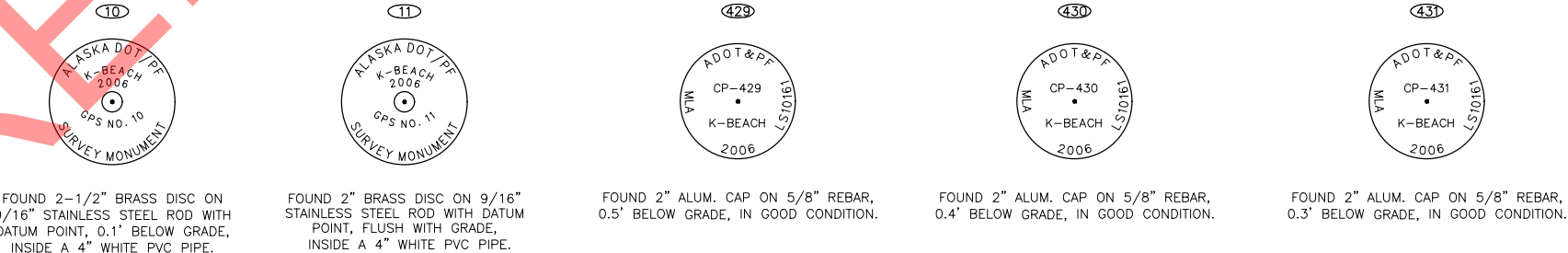
BASIS OF BEARINGS:
The Basis of Bearings is a local plane bearing between NGS Station SXQ D and KW-28. KW-28 bears N 37°51'15" W, a distance of 5,372.48 U.S. Survey Feet from NGS Station SXQ D. KW-28 has Kenai-1 coordinates of 74,991.2030 N, 136,850.3327 E.

TRANSLATION PARAMETERS:
To convert the local coordinates to NAD83 (CORS96) Epoch 2003 State Plane Zone 4 U.S. Survey Foot coordinates, translate using +2,296,762.8275 N, +1,312,443.4886 E, and scale using 0.9999250605.

VERTICAL CONTROL STATEMENT

The vertical datum for this project is the based on NAVD88, expressed in U.S. Survey Feet. All record elevations were held from Record of Survey 57931, recorded in the Kenai Recording District.

Control points and TBM's checked this survey were checked by a series of balanced and closed differential level loops utilizing a Leica DNA10 digital level. The digital level was checked prior to use by a digital peg test and was found to be in good adjustment.



SURVEYOR'S CERTIFICATE

I hereby certify that I am properly Registered and Licensed to practice Land Surveying in the State of Alaska, and that this drawing represents a survey made by me or under my direct supervision, and that the monuments shown hereon actually exist as described, and that all dimensions and other details are correct to the extent shown hereon.

David C. Hale LS-10395 Date

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, AK 99507
(907) 522-1707
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AND PUBLIC FACILITIES
KALIFORNISKY BEACH ROAD
MP 9.6 REPAIRS

SURVEY CONTROL SHEET

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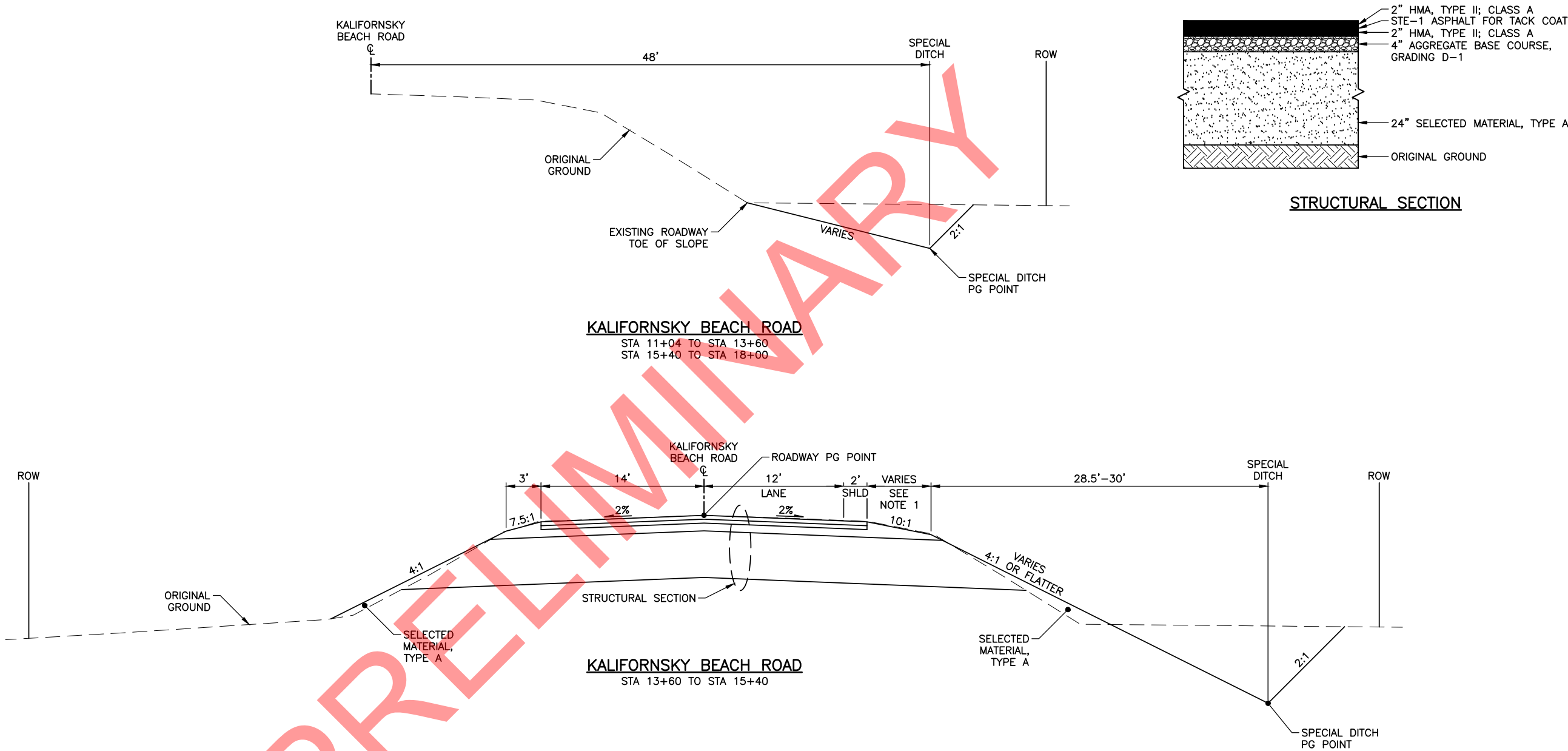
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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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- NOTES:**
1. WIDTH VARIES FROM 3' AT STA 13+60 TO 5.5' AT STA 15+40.



STATE OF ALASKA
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AND PUBLIC FACILITIES

**KALIFORNKY BEACH ROAD
MP 9.6 REPAIRS**

TYPICAL SECTIONS

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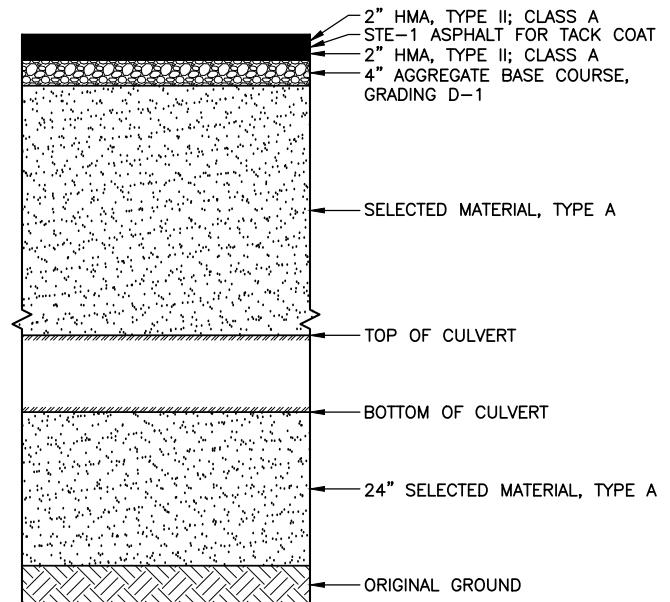
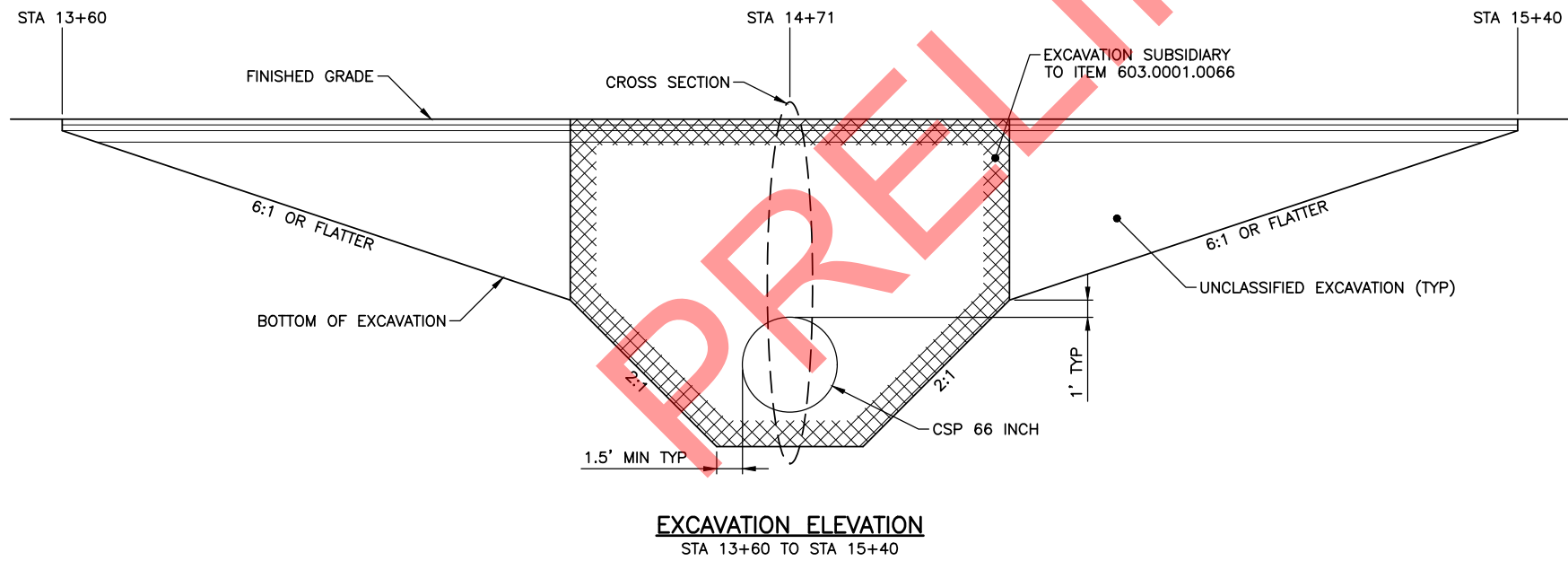
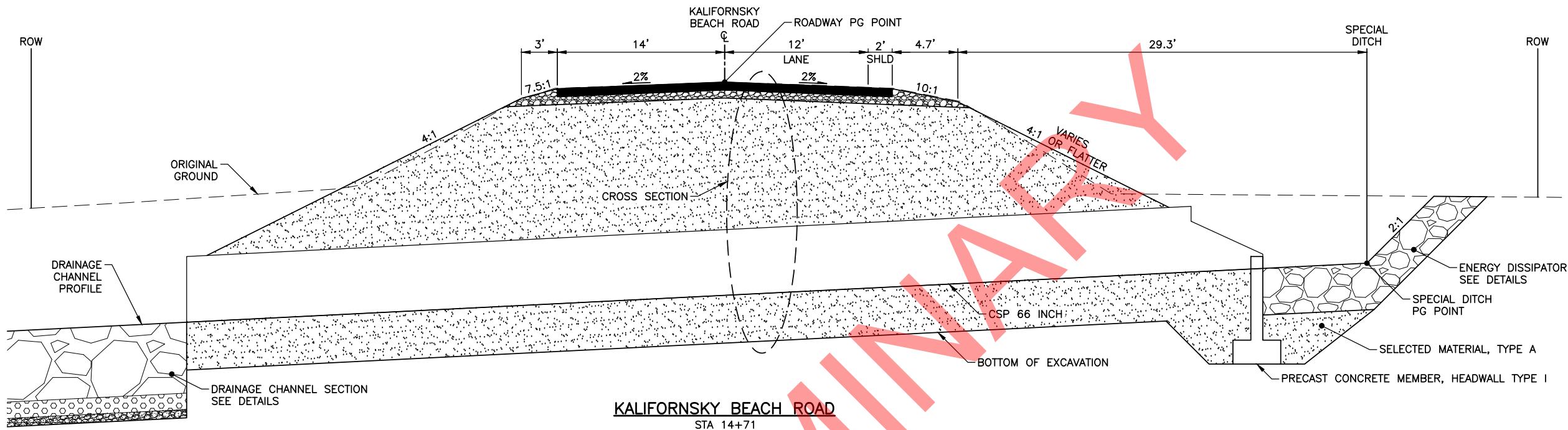
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STATE OF ALASKA
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AND PUBLIC FACILITIES

**KALIFORNISKY BEACH ROAD
MP 9.6 REPAIRS**

TYPICAL SECTIONS

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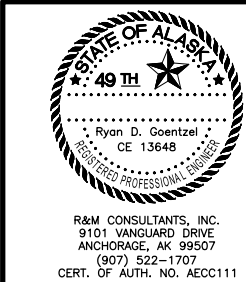
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NO.	DATE	DESCRIPTION	ALASKA	0085002/Z579310000	2018	C1	C1

ESTIMATE OF QUANTITIES				
ITEM NO.	SSHC 2017 NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
201.0009.0000	201(3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED
202.0001.0000	202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED
202.0002.0000	202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	640
202.0004.0000	202(4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	55
203.0003.0000	203(3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	5,900
203.0006.0000	203(6)	BORROW	TON	5,100
301.0001.00D1	301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	570
401.0001.002A	401(1A)	HMA, TYPE II; CLASS A	TON	150
401.0015.0000	401(15)	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
501.0007.0000	501(7)	PRECAST CONCRETE MEMBER, HEADWALL TYPE I	EACH	1
603.0001.0066	603(1)	CSP 66 INCH	LINEAR FOOT	108
610.0002.0000	610(2)	DITCH LINING	TON	560
611.0002.0001	611(2)	RIPRAP, CLASS I	TON	60
611.0002.0003	611(2)	RIPRAP, CLASS III	TON	1,350
611.0002.0004	611(2)	RIPRAP, CLASS IV	TON	450
618.0002.0000	618(2)	SEEDING	POUND	60
618.0003.0000	618(3)	WATER FOR SEEDING	MGAL	40
620.0001.0000	620(1)	TOPSOIL	SQUARE YARD	4,450
640.0001.0000	640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
640.0004.0000	640(4)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED
641.0001.0000	641(1)	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641.0002.0000	641(2)	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED
641.0006.0000	641(6)	WITHHOLDING	CONTINGENT SUM	ALL REQUIRED
641.0007.0000	641(7)	SWPPP MANAGER	LUMP SUM	ALL REQUIRED
642.0001.0000	642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642.0003.0000	642(3)	THREE PERSON SURVEY PARTY	HOURL	100
643.0002.0000	643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643.0003.0000	643(3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643.0023.0000	643(23)	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
643.0025.0000	643(25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
643.0032.0000	643(15A)	FLAGGING	CONTINGENT SUM	ALL REQUIRED
646.0001.0000	646(1)	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
647.2002.0000	647(5)	BACKHOE, 4WD, 1 CY BUCKET, 75 HP MINIMUM, 15 FT DEPTH	CONTINGENT SUM	ALL REQUIRED
670.0001.0000	670(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED

TABLE OF ESTIMATING FACTORS		
ITEM NO.	ITEM DESCRIPTION	FACTOR
203.0006.0000	BORROW	144 PCF
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	144 PCF
401.0001.002A	HMA, TYPE II; CLASS A	151 PCF
	ASPHALT BINDER, GRADE PG 52-28	5.3% OF 401.0001.002A
	STE-1 ASPHALT FOR TACK COAT	0.000334 TON/SY
610.0002.0000	DITCH LINING	110 PCF
611.0002.0001	RIPRAP, CLASS I	108 PCF
611.0002.0003	RIPRAP, CLASS III	108 PCF
611.0002.0004	RIPRAP, CLASS IV	108 PCF
618.0003.0000	WATER FOR SEEDING	1 MGAL/1,000 SF



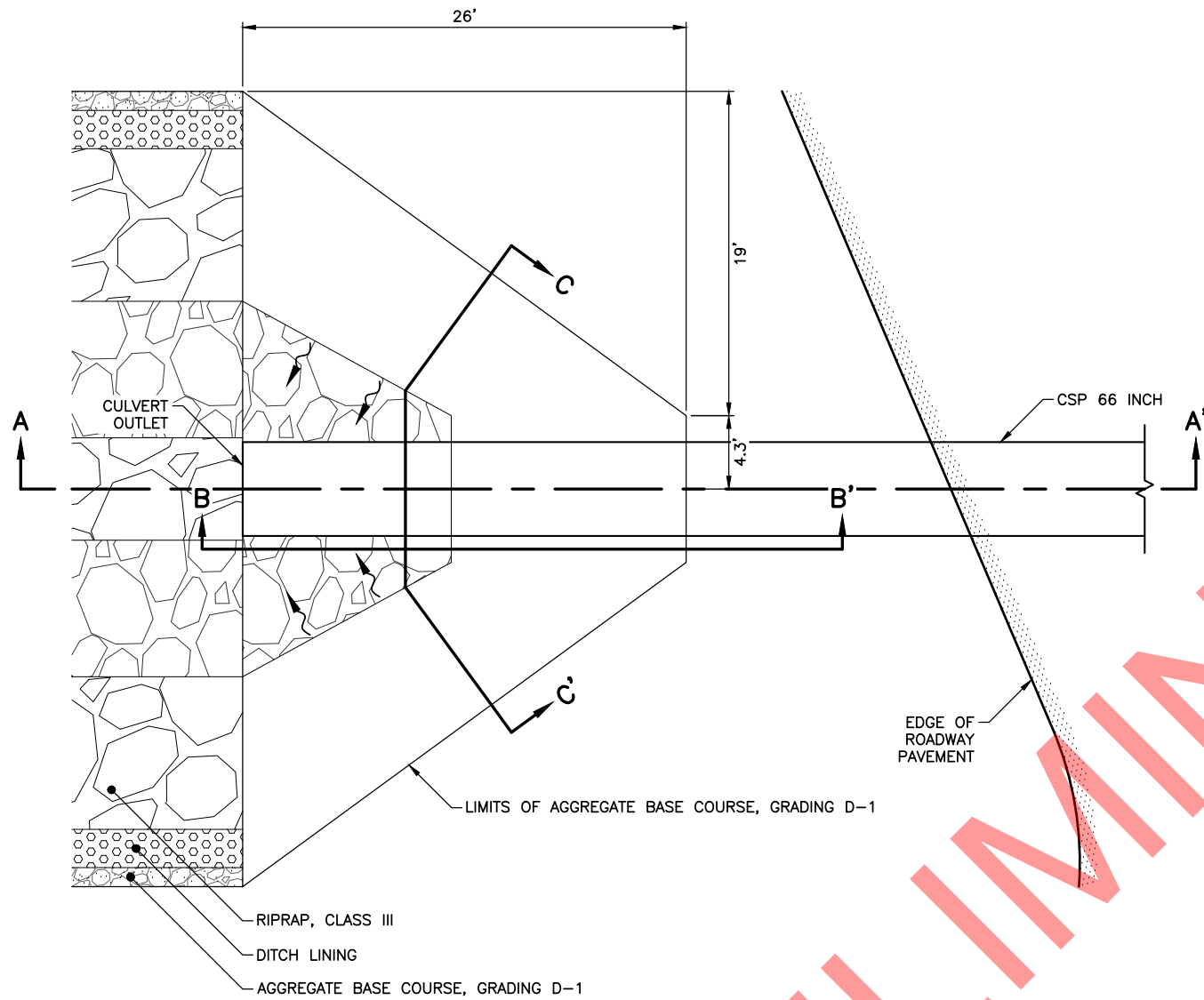
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KALIFORNSKY BEACH ROAD
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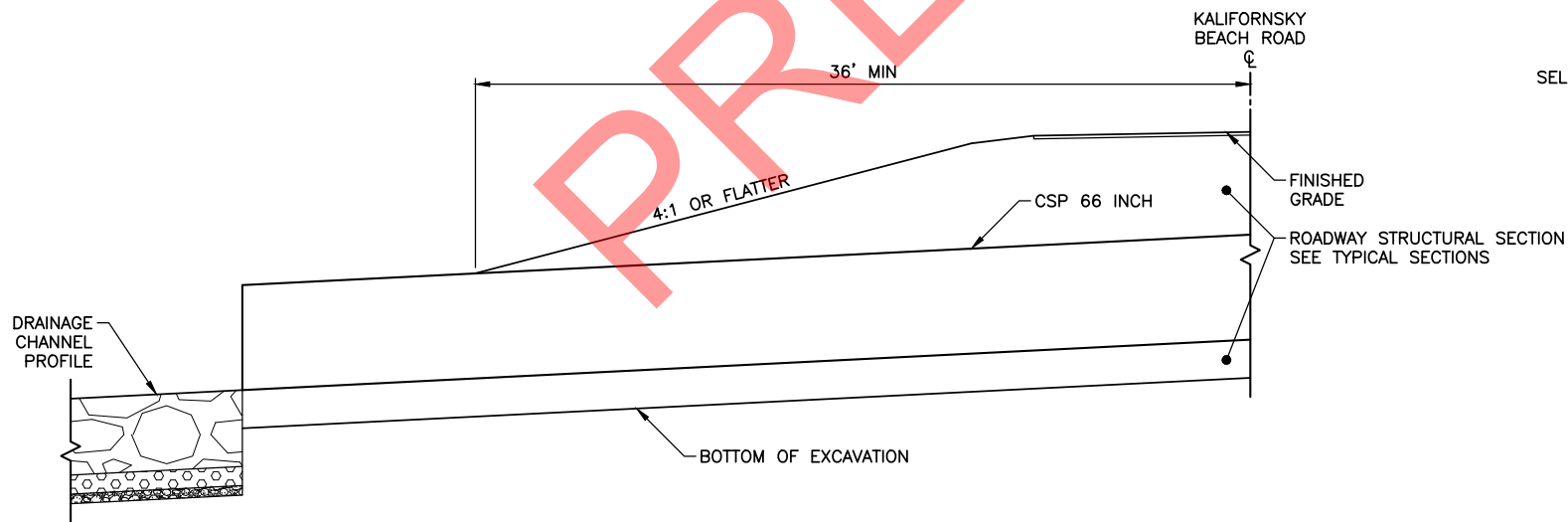
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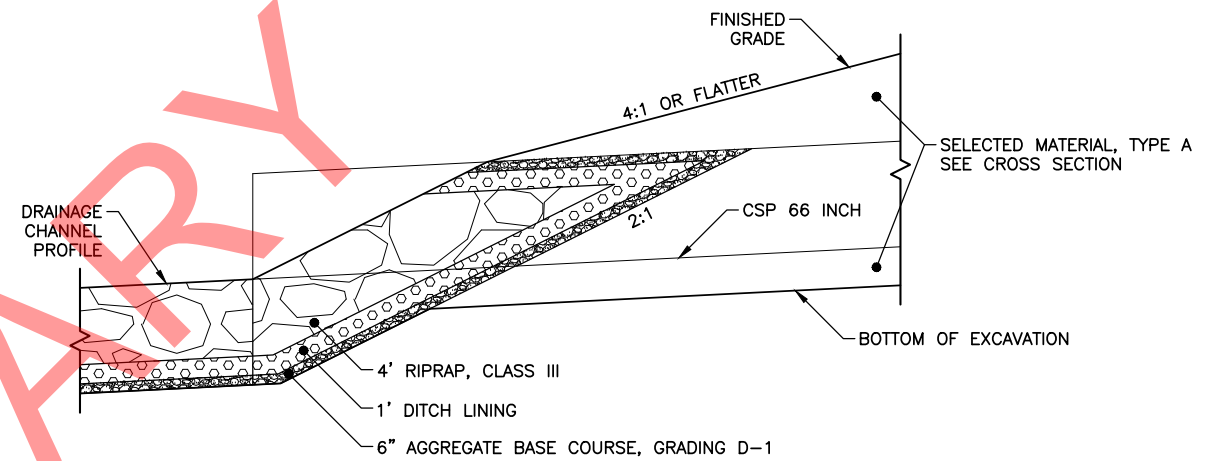
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NO.	DATE	DESCRIPTION	ALASKA	0085002/Z579310000	2018	E1	E3



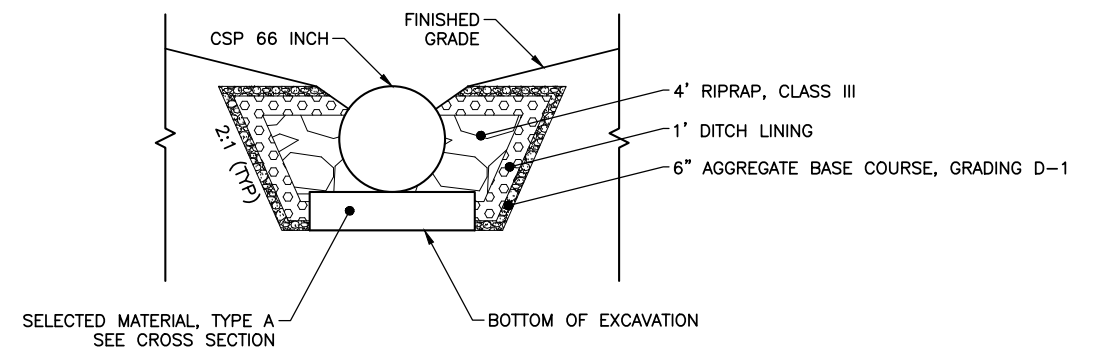
PLAN



SECTION A-A'

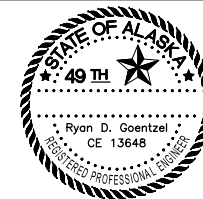


SECTION B-B'



SECTION C-C'

CULVERT OUTLET RIPRAP



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ANCHORAGE, AK 99507
(907) 522-1707
CERT. OF AUTH. NO. AECC111

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**KALIFORNISKY BEACH ROAD
MP 9.6 REPAIRS**

CULVERT RIPRAP DETAILS

DESIGNED BY
CHECKED BY
DRAFTED BY

XREFS

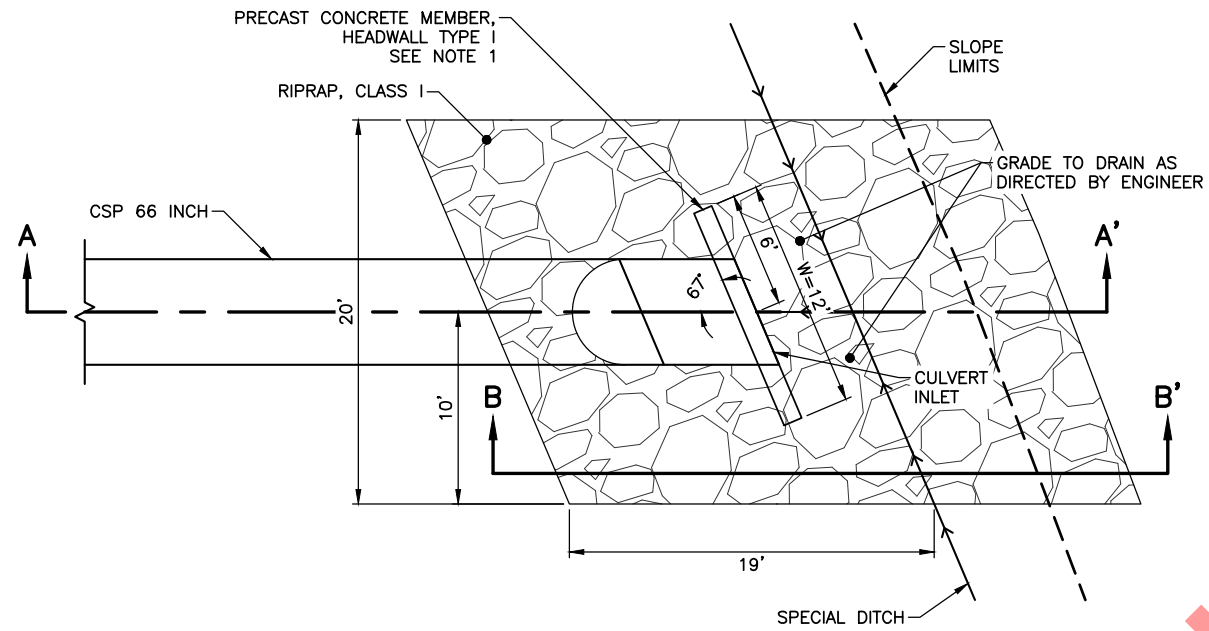
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LAYOUT E2

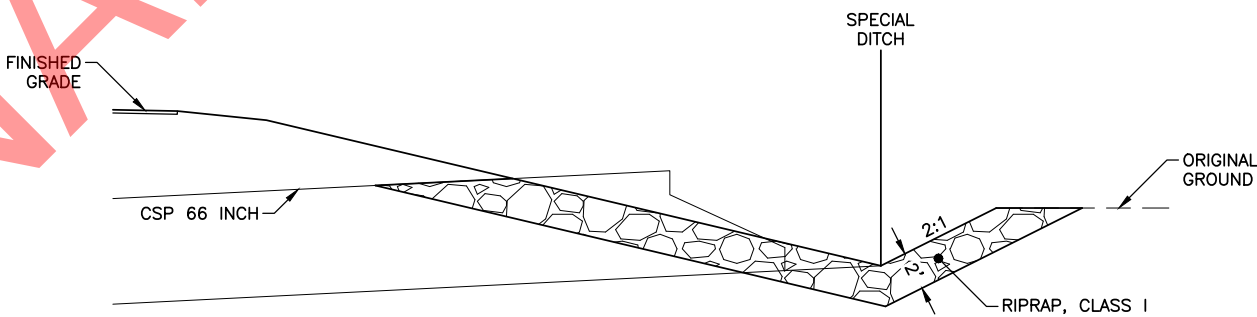
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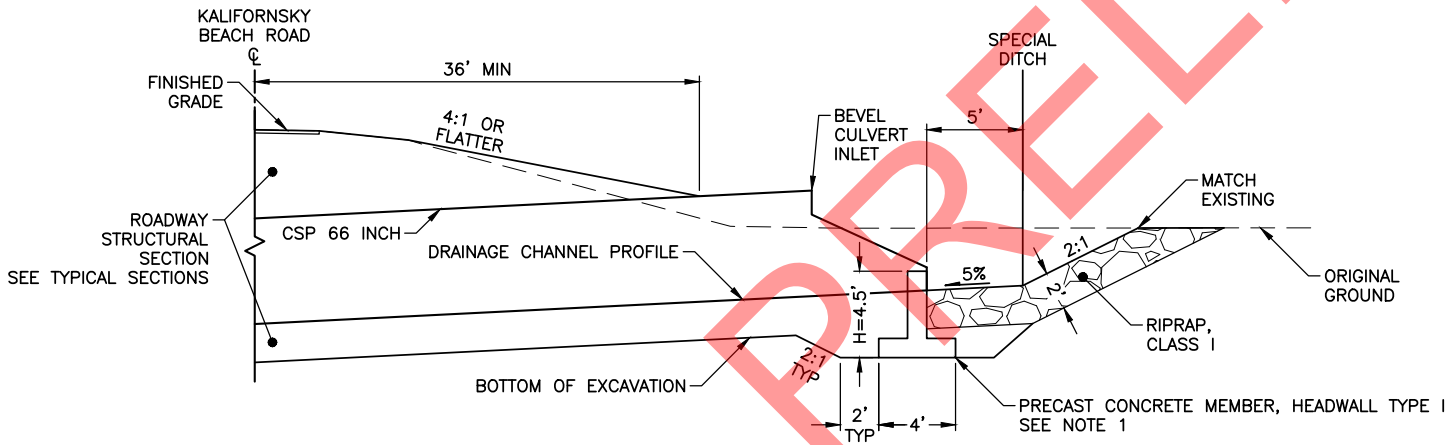
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	ALASKA	0085002/Z579310000	2018	E2	E3



PLAN



SECTION B-B'



SECTION A-A'

CULVERT INLET ENERGY DISSIPATOR

NOTES:

1. FOR PRECAST CONCRETE MEMBER, HEADWALL TYPE I, USE H=4.5' AND W=12'.



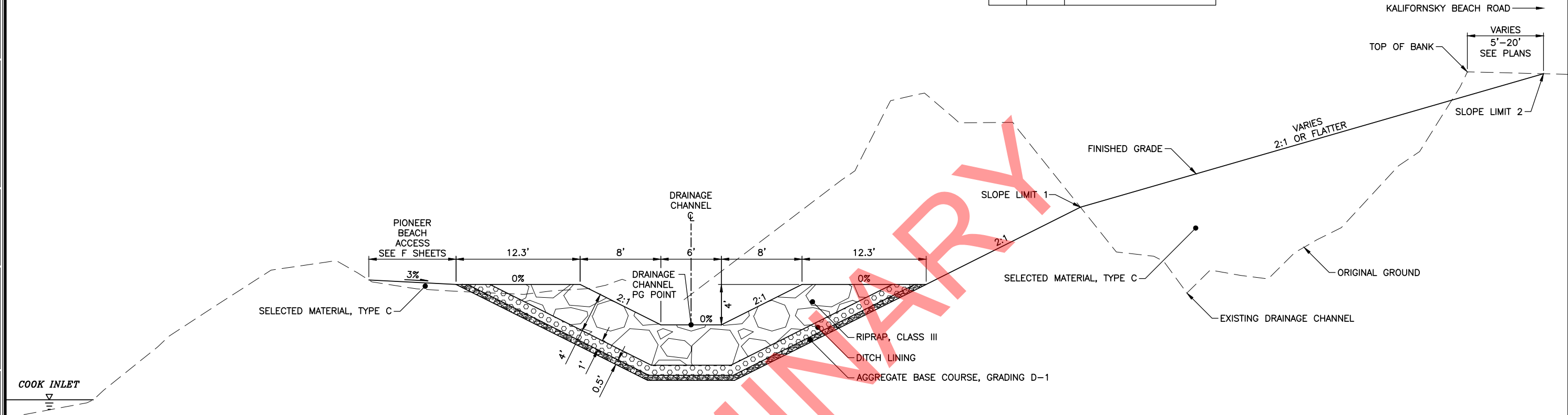
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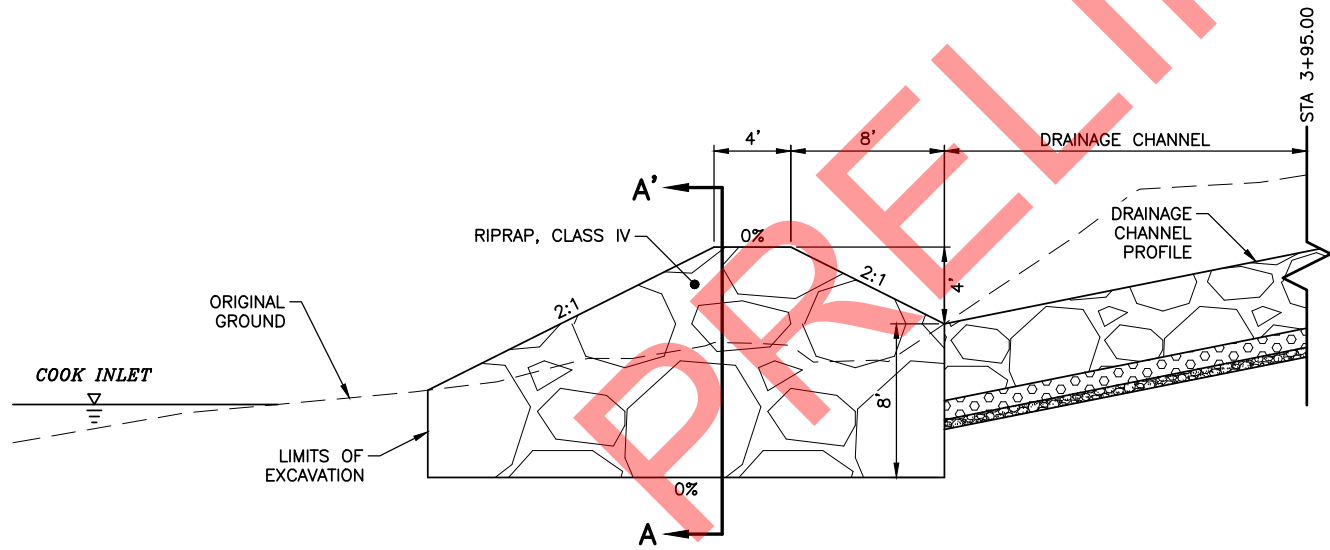
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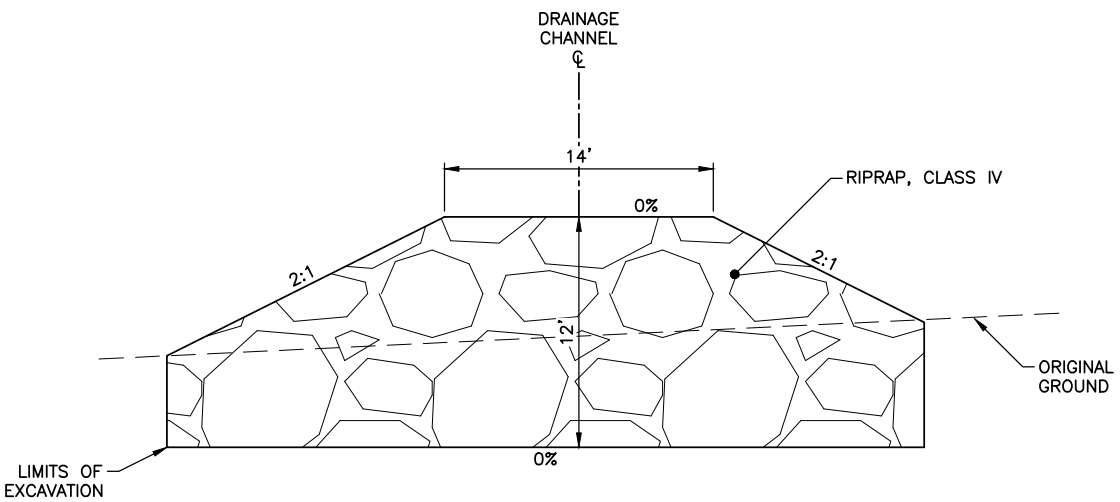
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NO.	DATE	DESCRIPTION	ALASKA	0085002/Z579310000	2018	E3	E3



DRAINAGE CHANNEL TYPICAL SECTION
STA 2+33 TO STA 3+95
NTS
SEE NOTE 1



DRAINAGE CHANNEL ENERGY DISSIPATOR
STA 3+95 TO STA 4+31
NTS



SECTION A-A'

- NOTES:**
1. COMPACT AGGREGATE BASE COURSE, GRADING D-1 PER SPECIFICATION SECTION 203-3.05.

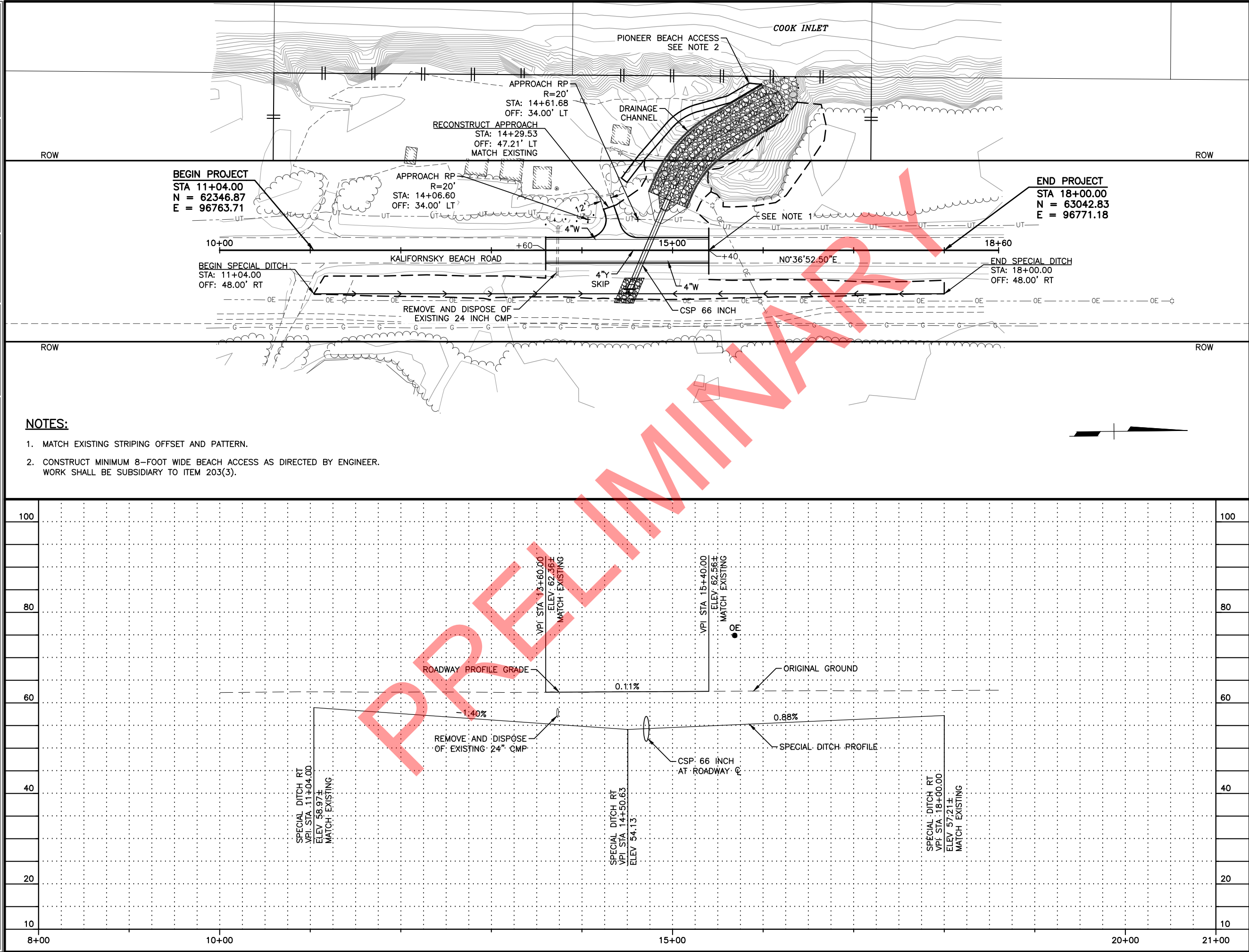
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**KALIFORNISKY BEACH ROAD
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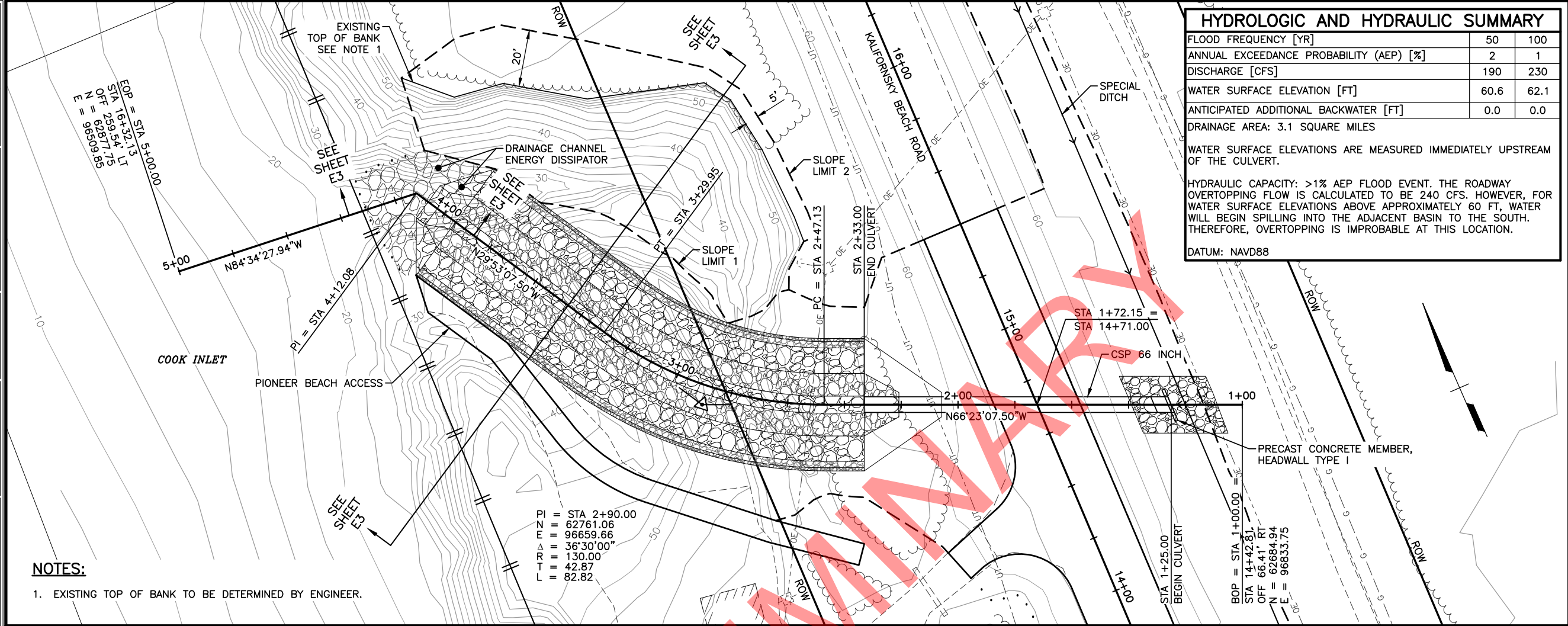
DRAINAGE CHANNEL DETAILS

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SHEET NO.		TOTAL SHEETS	
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STATE		YEAR	
ALASKA		2018	
PROJECT DESIGNATION			
0085002/Z579310000			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

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DATE TIME
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SHEET NO.		TOTAL SHEETS	
F2		F2	
STATE		YEAR	
ALASKA		2018	
PROJECT DESIGNATION			
0085002/Z579310000			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

HYDROLOGIC AND HYDRAULIC SUMMARY		
FLOOD FREQUENCY [YR]	50	100
ANNUAL EXCEEDANCE PROBABILITY (AEP) [%]	2	1
DISCHARGE [CFS]	190	230
WATER SURFACE ELEVATION [FT]	60.6	62.1
ANTICIPATED ADDITIONAL BACKWATER [FT]	0.0	0.0
DRAINAGE AREA: 3.1 SQUARE MILES		
WATER SURFACE ELEVATIONS ARE MEASURED IMMEDIATELY UPSTREAM OF THE CULVERT.		
HYDRAULIC CAPACITY: >1% AEP FLOOD EVENT. THE ROADWAY OVERTOPPING FLOW IS CALCULATED TO BE 240 CFS. HOWEVER, FOR WATER SURFACE ELEVATIONS ABOVE APPROXIMATELY 60 FT, WATER WILL BEGIN SPILLING INTO THE ADJACENT BASIN TO THE SOUTH. THEREFORE, OVERTOPPING IS IMPROBABLE AT THIS LOCATION.		
DATUM: NAVD88		

STATE OF ALASKA
49TH
Ryan D. Goentzel
REGISTERED PROFESSIONAL ENGINEER
CE 13648
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MP 9.6 REPAIRS
DRAINAGE CHANNEL
PLAN & PROFILE

