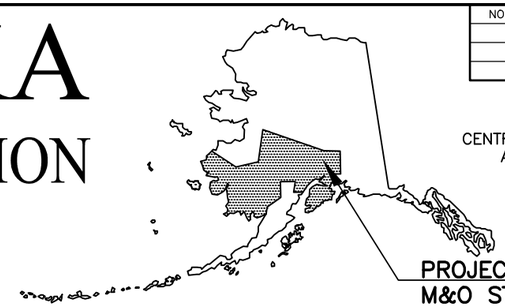
STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	PRKPAV2017	2017	AC1	AC5

CDS ROUTE	170000	MILEPOINT	54.52 TO 63.48
LATITUDE	62.076806	LONGITUDE	−150.020098
CDS ROUTE	170000	MILEPOINT	47.54 TO 63.48
LATITUDE	62.020642	LONGITUDE	−150.089389
CDS ROUTE	170000	MILEPOINT	63.03 TO 63.32
LATITUDE	62.130514	LONGITUDE	−150.038917



PROJECT LOCATION
M&O STATION: WILLOW
M&O STATION: WILLOW
M&O STATION: WILLOW

PROPOSED HIGHWAY PROJECT

PARKS HWY: MP 83-99 REHABILITATION, PEDESTRIAN, AND PASSING LANE IMPROVEMENTS CONTRACT NO. PRKPAV2017

GRADING, DRAINAGE, PAVING, SIGNING, STRIPING, AND ILLUMINATION

CONTRACT CONSISTS OF THE FOLLOWING PROJECTS:

PARKS HWY: MP 90-99 REHABILITATION
PROJECT NO. 0A41032/Z561770000

HSIP: PARKS HWY: SYSTEMIC PASSING LANES MP 83-99
PROJECT NO. 0A41037/CFHWY00127

PARKS HIGHWAY TALKEETNA SPUR ROAD PEDESTRIAN IMPROVEMENTS
PROJECT NO. 0A4-1(030)/Z581170000

AUGUST 2017

PRELIMINARY

DRAFTED | CHECKED | DESIGNED | LAYOUT A1 | DATE/TIME 7/31/2017 5:17 PM
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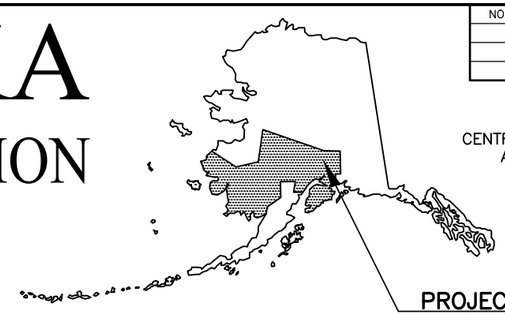
STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	A1	A10

CDS ROUTE	170000	MILEPOINT	54.52 TO 63.48
LATITUDE	62.076806	LONGITUDE	−150.020098



PROJECT LOCATION
M&O STATION: WILLOW

PROPOSED HIGHWAY PROJECT

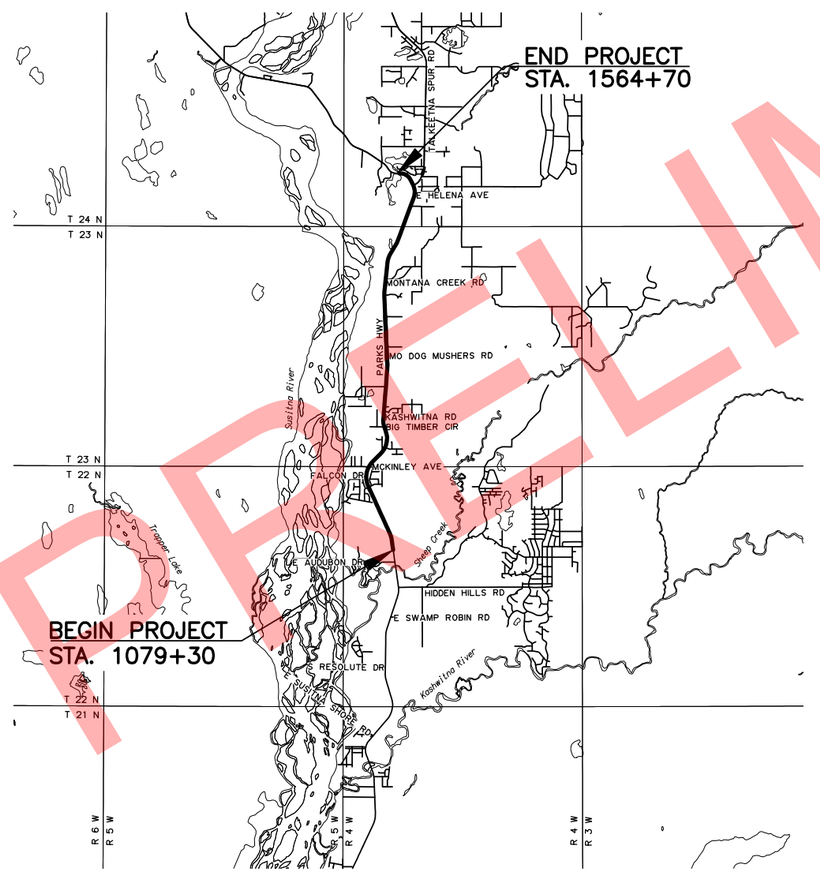
PARKS HWY: MP 90-99 REHABILITATION

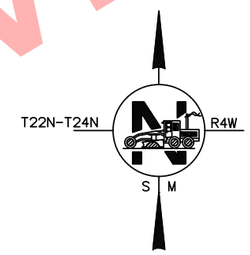
PROJECT NO. 0A41032/Z561770000

GRADING, DRAINAGE, PAVING, SIGNING, AND STRIPING

PRELIMINARY

PROJECT SUMMARY		
ROADWAY	WIDTH	LENGTH
PARKS HIGHWAY MP 90-99	40 FT - 64 FT	9.2 MILES





DESIGN DESIGNATIONS	
	PARKS HIGHWAY
FUNCTIONAL CLASS	RURAL INTERSTATE
AADT (2015)	2,860
AADT (2035)	3,552
DESIGN SPEED (V) (MPH)	55 / 65
DHV (2012)	21.1%
DHV (2015)	21.1%
T-PERCENT COMMERCIAL TRUCKS (%)	18.6%
D-DIRECTIONAL DISTRIBUTION (%)	45 / 55
ESALs	1,590,000

AUGUST 2017

PLANS DEVELOPED BY: HDL ENGINEERING CONSULTANTS

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

APPROVED:

REGIONAL PRECONSTRUCTION ENGINEER DATE

CONCUR:

REGIONAL CONSTRUCTION ENGINEER DATE

DRAFTED | CHECKED | DESIGNED | TITLE SHEET | LAYOUT | DATE/TIME 6/23/2017 9:38 AM | FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_A01.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	A2	A10

ABBREVIATIONS

A.A.D.T.	AVERAGE ANNUAL DAILY TRAFFIC
AC	ASPHALT CONCRETE
ADOT	ALASKA DEPARTMENT OF TRANSPORTATION
ARRC	ALASKA RAIL ROAD CORPORATION
ATB	ASPHALT TREATED BASE
BC	BRASS CAP
BM	BENCH MARK
BOP	BEGINNING OF PROJECT
CF	CUBIC FEET
CIR	CIRCLE
℄ CL	CENTERLINE
CP	CONTROL POINT
CPM	CRITICAL PATH METHOD
CS	CONTINGENT SUM
CSP	CORRUGATED STEEL PIPE
CY	CUBIC YARD
D	DEGREE
DHV	DESIGN HOUR VOLUME
D.I.	DROP INLET
DIA	DIAMETER
DR	DRIVE
E	EAST
EA	EACH
EAL	EQUIVALENT AXLE LOAD
ELEV	ELEVATION
EOP	END OF PROJECT
F.O.C.	FACE OF CURB
FT	FEET
GA	GAUGE
GAL	GALLON
HP	HORSE POWER
HWY	HIGHWAY
HR	HOUR
IE	INVERT ELEVATION
IN	INCH
L	LENGTH
LB	POUND
LF	LINEAR FOOT
LH	LABOR HOUR
LN	LANE
LS	LUMP SUM
LT	LEFT
ME	MATCH EXISTING
MGAL	1000 GALLONS
MIN	MINIMUM
MON	MONUMENT
MP	MILEPOST
MPH	MILES PER HOUR
N	NORTH
NB	NORTHBOUND
NE	NORTH EAST
NO, No.	NUMBER
NTS	NOT TO SCALE
NW	NORTH WEST
O.C.	ON CENTER
OG	ORIGINAL GROUND
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
P.G.	PROFILE GRADE POINT
PH	PHASE
PI	POINT OF INTERSECTION
POR	POINT OF ROTATION
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
R	RADIUS
RD	ROAD
REQ'D	REQUIRED
ROW	RIGHT-OF-WAY
RP	RADIUS POINT
RR	RAILROAD
RT	RIGHT
S	SOUTH
S	SUPER ELEVATION RATE
SB	SOUTHBOUND
SE	SOUTH EAST
SEC	SECTION
SF	SQUARE FOOT
SHLD	SHOULDER
SM	SEWARD MERIDIAN
SQ	SQUARE
ST	STREET
STA	STATION
STD	STANDARD
SW	SOUTH WEST
SY	SQUARE YARD
T	TANGENT
TBC	TOP BACK OF CURB
TBM	TEMPORARY BENCH MARK
TCP	TEMPORARY CONSTRUCTION PERMIT
T/W	TRAVELED WAY
TWLT	TWO-WAY LEFT TURN
TYP	TYPICAL

ABBREVIATIONS (CONTINUED)

V	VELOCITY
VC	VERTICAL CURVE
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WEST
W	WHITE
W.W.F.	WELDED WIRE FRAME
Y	YELLOW
YD	YARD

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT-OF-WAY AND TEMPORARY CONSTRUCTION PERMITS. NO EXCESS MATERIAL SHALL BE DISPOSED OF WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
2. THE ROW LINES SHOWN ARE FROM RECORD MAPPING, PLATTED SUBDIVISIONS, AND SURVEYED MONUMENTS ON THE GROUND. THE ROW LINES WERE INSERTED USING A COMMON COORDINATE SYSTEM.
3. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATE METHOD APPROVED BY THE ENGINEER.
4. FROM THE BOP TO THE EOP, CLEARING LIMITS SHALL EXTEND:

   a. 100 FT EACH SIDE OF THE PARKS HWY PROJECT CENTERLINE OR TO THE RIGHT-OF-WAY LINE, WHICHEVER IS LESS.

   b. 10 FT BEYOND APPROACH GRADING LIMITS OR TO THE RIGHT-OF-WAY LINE WHICHEVER IS LESS.

   c. PERFORM HAND CLEARING IN WETLAND AREAS DESIGNATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

   d. AS DIRECTED BY THE ENGINEER.
5. GRUBBING LIMITS SHALL EXTEND TO A POINT 20 FEET BEYOND THE SLOPE CATCH SHOWN ON PLANS, OR TO A POINT 10 FEET WITHIN THE RIGHT-OF-WAY, WHICHEVER IS LESS, OR AS DIRECTED BY ENGINEER. GRUBBING BEYOND THE CATCH POINT SHALL NOT BE PERFORMED IN WETLAND AREAS.
6. PLACE 4 INCHES OF TOPSOIL AND SEEDING:

   a. FROM THE SLOPE CATCH TO THE BOTTOM OF AGGREGATE BASE COURSE.

   b. IN AREAS BETWEEN ROADWAYS AND EXCESS MATERIAL DISPOSAL AREAS OUTSIDE THE AGGREGATE BASE COURSE LIMITS.

   c. AS DIRECTED BY THE ENGINEER.

   OTHER AREAS WITHIN THE RIGHT-OF-WAY DISTURBED BY THE CONTRACTOR SHALL RECEIVE SEEDING ONLY.
7. USE SEEDING, TYPE B, IN ALL WETLAND AREAS.
   USE SEEDING, TYPE A, IN ALL OTHER AREAS.
8. USE 3:1 TRANSITION INTO AND OUT OF SUB-EXCAVATION AREAS.
9. SUPER ELEVATION FOR HORIZONTAL CURVES SHALL BE ROTATED ABOUT THE PROFILE GRADE POINT AS SHOWN ON PLAN, OR AS DIRECTED BY THE ENGINEER.
10. DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
11. ALL WIRE CROSSING ELEVATIONS SHOWN ON PROFILES ARE THE APPROXIMATE ELEVATIONS WHERE THE LOWEST WIRE CROSSES THE PROPOSED CENTERLINE OF ROADWAY.
12. PRESERVE AND PROTECT ELECTRICAL CONDUIT AND CONDUCTORS.
13. WITHIN TWO (2) DAYS AFTER PAVING, PLACE AGGREGATE BASE COURSE, GRADING D-1 AGAINST PAVEMENT EDGE TO ENSURE THERE IS NO VERTICAL DROP AT THE EDGE OF PAVEMENT. USE APPROVED TRAFFIC CONTROL DEVICES IN THE INTERIM.
14. ALL HEADWALLS SHALL BE PRECAST.
15. THE EXISTING INFORMATION SHOWN ON SHEETS F4 AND F5 IS FROM PROJECT 0A41(033)/58273 BY OTHERS. FIELD CONDITIONS MAY NOT BE ACCURATELY REPRESENTED AND/OR MAY HAVE CHANGED. ADJUST IMPROVEMENTS AS DIRECTED BY THE ENGINEER.
16. EXTEND TYPICAL FILL SLOPES TO SPECIAL DITCH ELEVATION SHOWN ON PROFILE, UNLESS NOTED OTHERWISE.
17. REPLACE THE SAFETY FENCE AND TYPE II BARRICADES OR TABULAR MARKERS AS SHOWN ON STANDARD DRAWING C-03.10 WITH ADA COMPLIANT BARRICADES.
18. NO STAGING IS PERMITTED 1,000 FEET OF MONTANA CREEK CAMPGROUND. ACCESS TO CAMPGROUNDS WILL BE MAINTAINED AT ALL TIMES.
19. FOR PARALLEL GUARDRAIL TERMINALS, USE AN END OFFSET OF 2 FEET, OR AS DIRECTED BY THE ENGINEER.
20. STAGING OF EQUIPMENT OR MATERIALS BETWEEN STATION 1401+00 TO STATION 1432+00 WITHIN THE ROW, AND USE OF MONTANA CREEK CAMPGROUND FACILITIES IS NOT ALLOWED.

INDEX

SHEET NO.	DESCRIPTION
A1	TITLE
A2	INDEX, GENERAL NOTES, AND ABBREVIATIONS
A3	LEGEND
A4	PROJECT LAYOUT
A5-A10	SURVEY CONTROL SHEETS
B1-B3	TYPICAL SECTIONS
C1-C2	ESTIMATE OF QUANTITIES
D1-D8	SUMMARY SHEETS
E1-E8	DETAIL SHEETS
F1-F20	PLAN AND PROFILE SHEETS
F21-F28	APPROACH PROFILES
G1-G7	GRADING PLANS
H1-H18	SIGNING AND STRIPING

THE FOLLOWING REGIONAL DRAWINGS APPLY TO THIS PROJECT:

CR-G-04.02, CR-T-01.02, CR-T-25.10

IN THE EVENT OF A CONFLICT, REGIONAL DRAWINGS SUPERSEDE STANDARD DRAWINGS.

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

C-03.10*, C-04.12, C-05.20
D-01.02, D-04.21, D-06.10, D-07.00, D-30.11, D-31.01*
G-00.03, G-04.11S, G-04.10W, G-10.01, G-20.11, G-28.00, G-46.12
M-20.14, M-23.12
S-00.11*, S-05.01, S-30.04, S-31.01, S-32.00
T-20.03, T-21.03, T-22.03

* AS MODIFIED HEREIN

SPECIFICATION:

CONSTRUCT THE IMPROVEMENTS COVERED BY THESE PLANS IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES 2015 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE PROJECT SPECIAL PROVISIONS AS OF THE ADVERTISEMENT DATE OF THIS PROJECT.

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99 REHABILITATION

INDEX, GENERAL NOTES, AND ABBREVIATIONS

PRELIMINARY

LAYOUT: INDEX
DATE/TIME 7/20/2017 4:55 PM
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	A3	A10

ROADWAY

EXISTING / PROPOSED

- EDGE OF PAVEMENT
- LIMIT OF CUT SLOPE & FILL SLOPE (CUT / FILL)
- GRAVEL EDGE
- DRIVEWAY APPROACH
- SIDEWALK AND PATH/TRAIL
- CONCRETE CURB & GUTTER
- CONCRETE CURB CUT
- PARALLEL CURB RAMP / PERPENDICULAR CURB RAMP
- UNIDIRECTIONAL CURB RAMP & MID-BLOCK CURB RAMP
- DETECTABLE WARNING TILE
- BRIDGE
- TUNNEL
- GUARDRAIL
- END & PARALLEL END SECTIONS
- ROADWAY OBLITERATION
- FENCE
- STONE FENCE
- NOISE BARRIER
- RETAINING WALL
- HEADWALL & WINGWALL
- BOTTOM OF DITCH
- SPECIAL DITCH
- FLAT BOTTOM DITCH
- BERM
- RIPRAP
- BOULDER OR BOULDERS
- PRIVATE SIGN, MAILBOX (MB)
- POST, BOLLARD

UTILITIES

EXISTING / PROPOSED

- STORM DRAIN (SD)
- STORM DRAIN MANHOLE, CLEANOUT (SD, CO)
- CURB INLET CATCH BASIN / FIELD INLET CATCH BASIN (FI)
- PIPE CULVERT WITH END SECTION
- SANITARY SEWER (SS)
- SANITARY SEWER MANHOLE, CLEANOUT (SS, CO)
- SEPTIC VENT, SEWER SERVICE CONNECTION
- WATER (W)
- FIRE HYDRANT, VALVE OR RISER
- WELL, WATER SERVICE CONNECTION (W)
- NATURAL GAS (G)
- OIL OR GASOLINE PIPELINE (O)
- TANKS (ABOVE GROUND, UNDERGROUND) (U)
- ELECTRIC (OE) (OVERHEAD), (UE) (UNDERGROUND), (OE&OT) (OVERHEAD)
- UTILITY POLE, POLE WITH LUMINAIRE
- GUY POLE, GUY WIRE ANCHOR (GP)
- TRANSMISSION TOWER (WOOD, STEEL)
- ELECTRIC PEDESTAL, TRANSFORMER (E)
- ELECTRIC MANHOLE, METER (E)
- ELECTRIC OUTLET, LANDSCAPE LIGHT
- TELEPHONE (OT) (OVERHEAD), (UT) (UNDERGROUND), (UT&TV) (UNDERGROUND)
- TELEPHONE MANHOLE, PEDESTAL (T)
- FIBER OPTIC (FO)
- FIBER OPTIC MANHOLE (FO)
- CABLE TV (OTV) (OVERHEAD), (UTV) (UNDERGROUND)
- CABLE TV PEDESTAL, SATELLITE DISH
- UNDERGROUND DUCT, UTILIDOR (ELECTRIC, TELEPHONE, FIBER OPTIC)
- VENT

TRAFFIC

EXISTING / PROPOSED

- LOAD CENTER
- TRAFFIC & BEACON CONTROLLER
- TYPE 1A, II, III, IV JUNCTION BOX (15, 26, 37, 48 / 60, ##, ##, ##)
- FIBER OPTIC VAULT (F/O 59 / F/O #)
- ELECTROLIER (68, 99 / 78, 13)
- HIGHTOWER (HT#)
- SIGNAL POLE WITH MASTARM (49 / 14)
- PEDESTRIAN PUSH BUTTON & SIGNAL (68, 12)
- VEHICULAR SIGNAL (44)
- VEHICULAR SIGNAL LEFT & RIGHT (65, 24 / 12, ##)
- OPTICAL, CAMERA, RADAR, AND GPS DETECTOR (CAM)
- LOOP DETECTOR (555 / 735)
- COMMUNICATION ANTENNA
- MASTARM BEACON
- RURAL & SCHOOL ZONE BEACON (753, 77; 727, 55; 769, 65; 123, 45)
- LOOP DETECTOR CONDUIT
- SIGNAL CONDUIT (TR)
- LIGHTING CONDUIT (LTG)
- SIGNAL & LIGHTING CONDUIT (T/L)
- CONDUIT BORING
- CONDUIT SIZE IN INCHES (2" 1-3C4 / 2" 1-3C4 CKT BA12 CKT BA13)
- INTERCONNECT (I/C)
- SIGN POST (22)

PROJECT SPECIFIC

EXISTING / PROPOSED

- FEMA FLOOD PLAIN LIMIT
- WORK UNDER SEPARATE PROJECT
- PAVEMENT PLANING
- ROADWAY CENTERLINE (1+00)
- STREAM CHANNEL

RIGHT-OF-WAY

RECOVERED / SET THIS PROJECT

- FEDERAL GOV'T SURVEY MONUMENT
- GOV'T CONTROL STATION
- PRIMARY MONUMENT (BRASS/AL CAP)
- MISC SECONDARY CORNER
- PRIMARY CENTERLINE MONUMENT
- SECONDARY CENTERLINE MONUMENT
- RANDOM CONTROL MONUMENT (RCM)
- PRIMARY GPS CONTROL POINT (GPS)
- HORIZONTAL CONTROL POINT (CP)
- SECONDARY CONTROL POINT (SCP)
- VERTICAL BENCHMARK (BM)
- TEMPORARY BENCHMARK (TBM)
- TOWNSHIP AND RANGE LINES (T13N, T12N, R2W, R3W)
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- CORPORATE or CITY LIMITS
- EXISTING RIGHT-OF-WAY
- RIGHT-OF-WAY OR EASEMENT REQUIRED
- PROJECT RIGHT-OF-WAY LINE
- EXISTING RIGHT-OF-WAY EASEMENT
- EXISTING PROPERTY LINE
- EXISTING UTILITY EASEMENT
- PROPOSED UTILITY EASEMENT
- EXISTING CENTERLINE
- RAILROAD CENTERLINE
- TEMPORARY CONSTRUCTION EASEMENT
- TEMPORARY CONSTRUCTION PERMIT
- ALASKA RAILROAD CORPORATION RIGHT-OF-WAY LINES (ARRC ROW)

TOPOGRAPHY

EXISTING / PROPOSED

- LAKE OR POND, WETLANDS (LAKE/POND)
- TREE (CONIFER/DECIDUOUS) TREELINE (EDGE OF VEGETATION)
- PLANTER (P)
- BUILDING OR FOUNDATION
- CONTOUR, MAJOR OR MINOR (520)
- DRAINAGE FLOW
- CREEK (CENTERLINE)
- RIVER (EDGE OF WATER)

PRELIMINARY

STATE OF ALASKA 49TH RICHARD D. HAMMOND CE-8415 REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99 REHABILITATION

LEGEND SHEET

DRAFTED | CHECKED | DESIGNED | A3 | LAYOUT | 5/24/2017 12:05 PM | DATE/TIME
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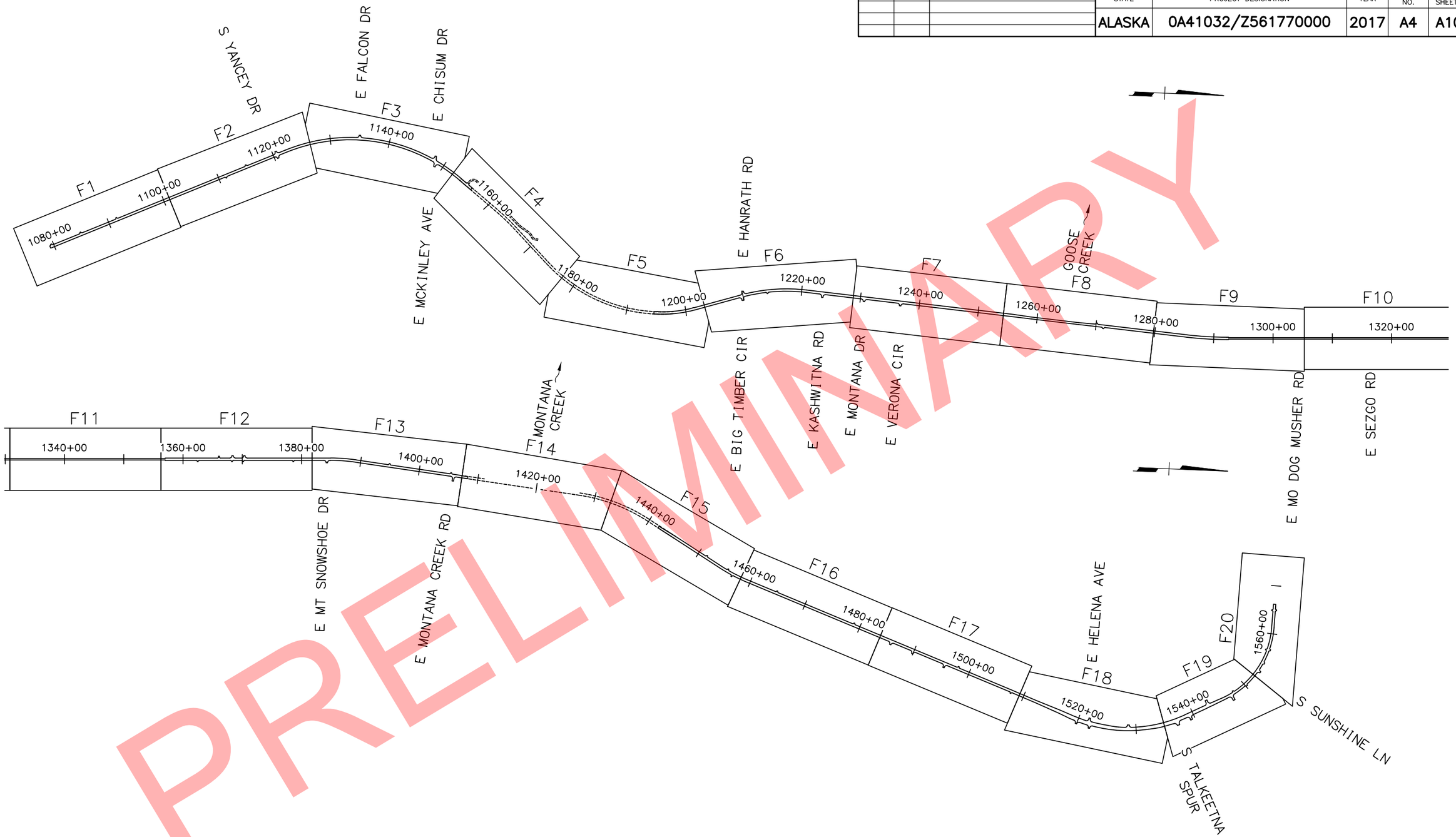
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	A4	A10



PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99 REHABILITATION

PROJECT LAYOUT

DATE/TIME	LAYOUT	LAYOUT	DESIGNED	DAD	CHECKED	RDH	DRAFTED	CDB
5/24/2017 12:05 PM								

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STATE	YEAR	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	2017	0A41032/Z561770000	A5	A10

HORIZONTAL CONTROL

COORDINATE SYSTEM:
THIS PROJECT IS LOCATED ENTIRELY WITHIN THE MATANUSKA–SUSITNA VALLEY SV–2 ADJUSTMENT, A U.S. SURVEY FOOT LOCAL SURFACE GRID COORDINATE SYSTEM DEVELOPED BY THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES.

BASIS OF COORDINATES:
THE BASIS OF COORDINATES IS NGS CONTROL STATION "U 104" (1965), PID TT0990, A STANDARD USC&GS BENCH MARK BRASS DISC CEMENTED IN THE NORTHEAST CURB AT THE NORTHWEST END OF THE KASHWITNA RIVER BRIDGE. SAID STATION WAS OBSERVED BY GPS IN 2013, AND ITS NAD83(2011) EPOCH 2010.00 POSITION WAS ESTABLISHED BY AN NGS OPUS SOLUTION, AND HAS SV–2 COORDINATES OF 270615.1871 NORTH, 315750.5142 EAST.

BASIS OF BEARINGS:
THE BASIS OF BEARINGS IS A LOCAL PLANE BEARING BETWEEN NGS CONTROL STATION U 104 AND NGS CONTROL STATION "W 105" (1965), PID TT1432, A STANDARD USC&GS BENCH MARK BRASS DISC ON TOP OF A 5/8" COPPER COATED ROD INSIDE AN ORANGEBURG PIPE WITH CARSONITE AND STEEL WITNESS POSTS NEARBY, BEARS N 02°13'19" E A DISTANCE OF 78,439.47 U.S. SURVEY FEET FROM NGS STATION U 104. NGS CONTROL STATION W 105 WAS OBSERVED BY GPS IN 2013, AND ITS NAD83(2011) EPOCH 2010.00 POSITION WAS ESTABLISHED BY AN NGS OPUS SOLUTION, AND HAS SV–2 COORDINATES OF 348995.6808 NORTH, 318791.6671 EAST.

TRANSLATION PARAMETERS:
TO CONVERT THE LOCAL COORDINATES TO NAD83 (2011) EPOCH 2010.00 STATE PLANE U.S. SURVEY FOOT COORDINATES, TRANSLATE USING +2,624,987.4040 NORTH, +1,312,507.1407 EAST, AND SCALE USING 0.9998907818.

VERTICAL CONTROL

MSL 1929 NGVD, AS DETERMINED BY A SERIES OF LEVEL LOOPS PERFORMED BY HDL BETWEEN USC&GS BENCHMARKS: USC&GS U 104, X104, Z104, AND A 105. THESE BENCHMARKS WERE HELD FOR THE PARKS HIGHWAY MP 83–90 WEIGHT RESTRICTION ELIMINATION PROJECT. REFER TO RECORD OF SURVEY PLAT NO. 2012–84, PALMER RECORDING DISTRICT. LEVEL LOOPS FOR THE PARKS HIGHWAY MP 90–99 PROJECT BEGAN BY HOLDING TBM POINT 815 FROM PLAT NO. 2012–84, SHOWN AS POINT NO. 601 ON THIS RECORD OF SURVEY. HDL LEVEL LOOPS SHOW THAT USC&GS BENCHMARKS F 105, G 105, H 105, J 105, K 105, L 105, AND W 105 DO NOT FIT WITHIN TOLERANCE OF THE HELD BENCHMARKS LISTED ABOVE, THEREFORE, RECORD ELEVATIONS FOR F 105, G 105, H 105, J 105, K 105, L 105, AND W 105 WERE NOT HELD FOR THIS PROJECT. PROJECT ELEVATIONS ARE SHOWN FOR THESE SEVEN BENCHMARKS.

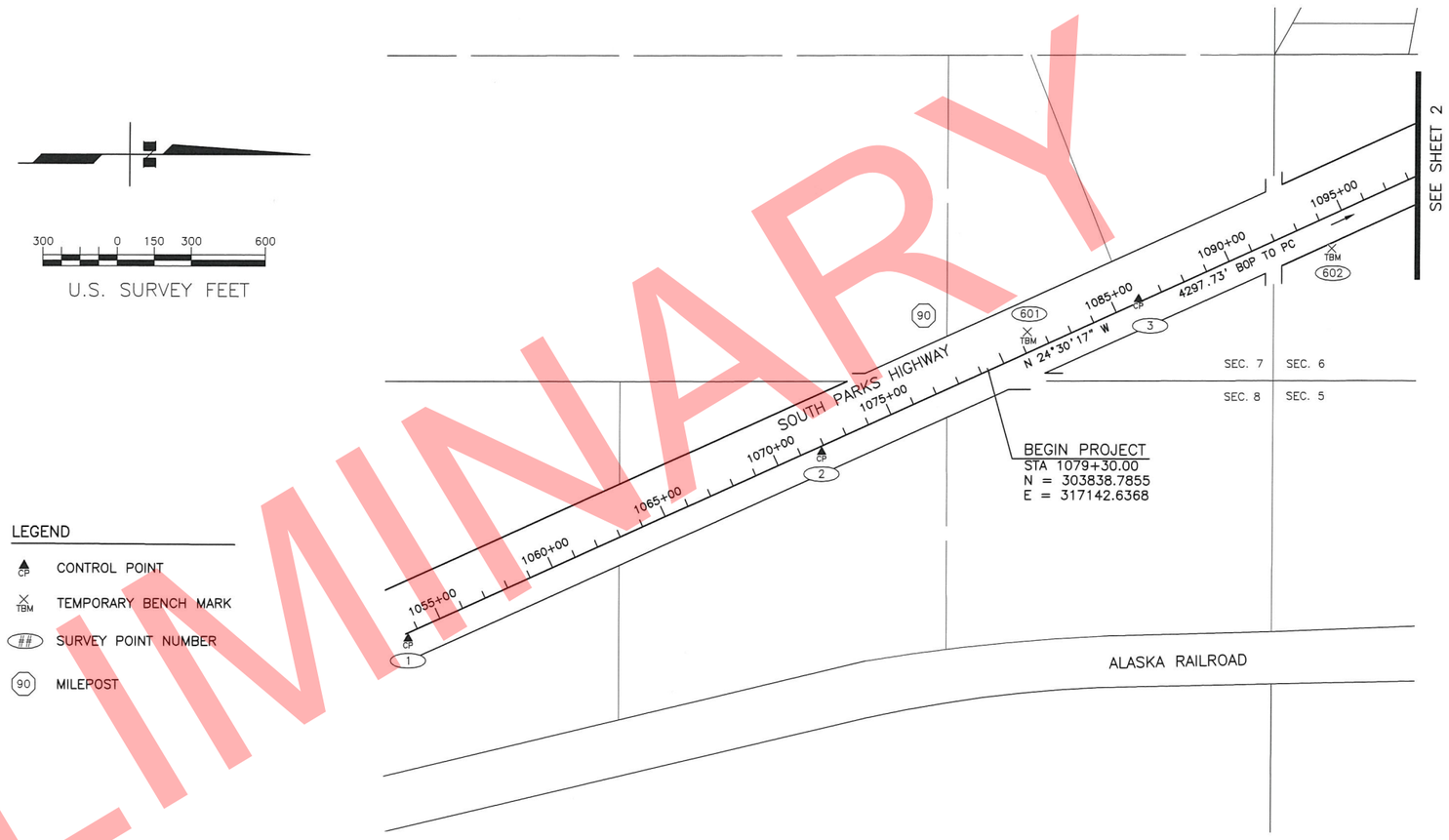
NOTES

1. ALL DIMENSIONS AND COORDINATES SHOWN ARE IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
2. THE FIELD SURVEY WAS PERFORMED BETWEEN SEPTEMBER 5, 2013 THROUGH NOVEMBER 20, 2016 BY HDL, LLC USING LEICA DIGITAL LEVELS, GPS, AND CONVENTIONAL SURVEY EQUIPMENT.
3. RIGHT–OF–WAY LOCATION AND PROPERTY LINES ARE SHOWN FOR ORIENTATION PURPOSES ONLY. PLEASE REFER TO AKDOT RIGHT–OF–WAY MAPS FOR ANY RIGHT–OF–WAY INFORMATION.
4. IN ADDITION TO THE FIELDBOOKS FOR THIS PROJECT, THE FOLLOWING HATTENBURG DILLEY AND LINNELL FIELDBOOKS CONTAIN INFORMATION RELATING TO THE RECOVERED CORNERS FOR THIS SURVEY CONTROL DIAGRAM:

02–046	PARKS HIGHWAY MP 83–90 HORIZONTAL BOOKS 1 & 2
13–025	CENTERLINE MONUMENT DESCRIPTION PEG BOOK HORIZONTAL CONTROL
14–505	HSIP PARKS HWY GRADE SEPARATIONS BOOK 1 HSIP PARKS HWY GRADE SEPARATIONS BOOK 2 HSIP PARKS HWY GRADE SEPARATIONS BOOK 3

5. FURTHER INFORMATION MAY BE FOUND ON HSIP: PARKS HIGHWAY GRADE SEPARATIONS SCD, PLAT NO. 2015–158, PALMER RECORDING DISTRICT, AND PLAT 2015–14, TALKEETNA RECORDING DISTRICT.
6. VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO USE. ON MULTI YEAR PROJECTS, VERIFY ALL CONTROL ON A SEASONAL BASIS.

WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS, CORNERS, OR ACCESSORIES, WHICH WILL BE DISTURBED OR BURIED, SHALL BE REFERENCED AND RE–ESTABLISHED IN THEIR ORIGINAL POSITION (A.S. 19.10.260) AND RECORDED (A.S. 34.65.040).



LEGEND

- CP — CONTROL POINT
- TBM — TEMPORARY BENCH MARK
- ## — SURVEY POINT NUMBER
- 90 — MILEPOST

HORIZONTAL CONTROL						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1053+49.83	20.68 RT.	301499.5908	318231.6205	244.29	Set Rbr/AC[11299]: CP–1
2	1071+82.46	21.26 RT.	303167.3932	317472.0395	246.59	Set Rbr/AC[11299]: CP–2
3	1086+04.16	12.95 LT.	304446.8540	316851.2307	240.30	Set Rbr/AC[11299]: CP–3

VERTICAL CONTROL						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
601	1081+39.35	77.82 LT.	303997	316985	246.26	Fd 6" Spike: TBM PHR–601 13" Dia. Birch
602	1094+00.49	123.39 RT.	305228	316645	245.85	Set RR Spike: TBM PHR–602 9" Dia. Cottonwood

PLANS DEVELOPED BY:
HDL ENGINEERING CONSULTANTS, LLC.
3335 ARCTIC BLVD. SUITE 100
ANCHORAGE, AK. 99503 907–564–2120
REGISTRATION No. AECL 861

STATE OF ALASKA 49TH BRADFORD J. RINCKEY LS – 11299 REGISTERED PROFESSIONAL LAND SURVEYOR 2·22·17

HDL ENGINEERING CONSULTANTS, LLC

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SURVEY CONTROL SHEET

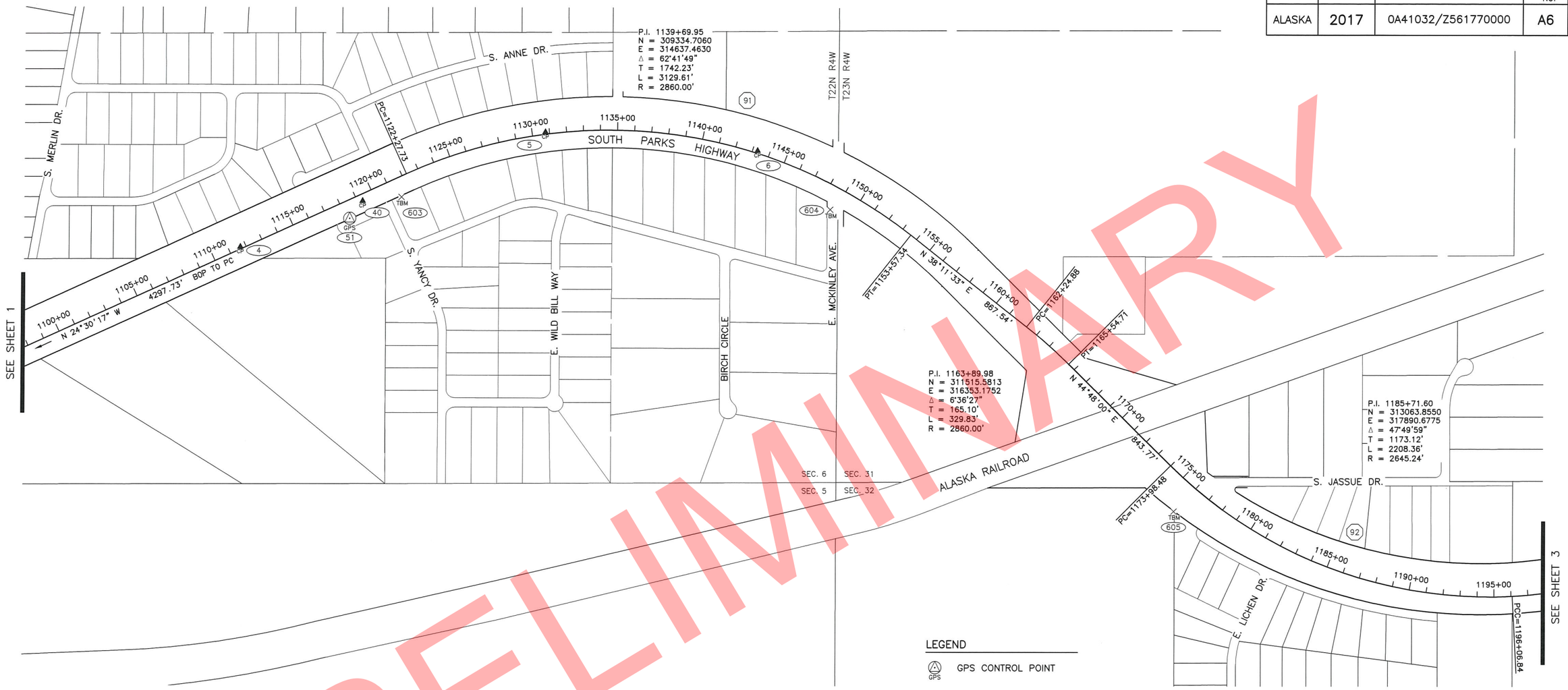
FEDERAL PROJECT NO. 0A41032
Z561770000

PARKS HIGHWAY: M.P. 90–99
REHABILITATION

DRAWN	GEL	DATE	FEB 2017	SCALE	1" = 300'
CHECKED	JJK	DATE	FEB 2017	SHEET	1 OF 6

PRELIMINARY

STATE	YEAR	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	2017	0A41032/Z561770000	A6	A10



PRELIMINARY

300 0 150 300 600

U.S. SURVEY FEET

LEGEND

- GPS CONTROL POINT
- CP CONTROL POINT
- TBM TEMPORARY BENCH MARK
- ## SURVEY POINT NUMBER
- 91 MILEPOST

HORIZONTAL CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
4	1111+68.45	12.76 LT.	306780.2481	315787.8258	253.14	Set Rbr/AC[11299]: CP-4
51	1118+18.90	99.95 RT.	307418.8624	315620.5962	——	Set AM/Bx[12651-S]: PHR GPS-51
40	1119+28.92	38.13 RT.	307493.3240	315518.7100	——	Set Rbr/AC[11299]: CP-40
5	1130+77.59	12.82 LT.	308561.7053	315114.0977	257.81	Set Rbr/AC[11299]: CP-5
6	1143+28.73	14.48 LT.	309804.1203	315222.3328	255.67	Set Rbr/AC[11299]: CP-6

VERTICAL CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
603	1121+46.41	112.31 RT.	307722	315496	252.71	Set RR Spike: TBM PHR-603 15" Dia. Cottonwood
604	1148+70.51	135.77 RT.	310233	315567	255.61	Set RR Spike: TBM PHR-604 15" Dia. Birch
605	1175+88.07	185.02 RT.	312250	317333	252.42	Set RR Spike: TBM PHR-605 10" Dia. Birch

NOTE

1. SEE SHEET 1 FOR NOTES AND CONTROL INFORMATION.

PLANS DEVELOPED BY:
HDL ENGINEERING CONSULTANTS, LLC.
3335 ARCTIC BLVD. SUITE 100
ANCHORAGE, AK. 99503 907-564-2120
REGISTRATION No. AECL 861

STATE OF ALASKA 49TH BRADFORD J. RINCKEY LS - 11299 REGISTERED PROFESSIONAL LAND SURVEYOR 2-22-17

HDL ENGINEERING CONSULTANTS, LLC

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SURVEY CONTROL SHEET

FEDERAL PROJECT NO. 0A41032
Z561770000

PARKS HIGHWAY: M.P. 90-99
REHABILITATION

DRAWN	GEL	DATE	FEB 2017	SCALE	1" = 300'
CHECKED	JJK	DATE	FEB 2017	SHEET	2 OF 6

STATE	YEAR	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	2017	0A41032/Z561770000	A7	A10

300 0 150 300 600

U.S. SURVEY FEET

LEGEND

- GPS CONTROL POINT
- CONTROL POINT
- TEMPORARY BENCH MARK
- BENCH MARK
- SURVEY POINT NUMBER
- MILEPOST

HORIZONTAL CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
41	1198+66.57	30.47 LT.	314487.6880	317768.5110	——	Set Rbr/AC[11299]: CP-41
10	1205+70.69	29.11 RT.	315177.5066	317629.6373	262.68	Set Rbr/AC[11299]: CP-10
11	1215+91.36	12.98 LT.	316157.2844	317350.9540	277.55	Set Rbr/AC[11299]: CP-11
12	1235+47.01	12.22 LT.	318110.1368	317463.3232	271.71	Set Rbr/AC[11299]: CP-12
13	1252+79.96	21.37 RT.	319835.5369	317628.4123	252.28	Set Rbr/AC[11299]: CP-13
52	1267+10.64	172.16 LT.	321276.7770	317544.0884	——	Set AM/Bx[12651-S]: PHR GPS-52
14	1277+67.02	21.70 RT.	322315.3824	317817.6116	302.19	Set Rbr/AC[11299]: CP-14
42	1281+47.36	33.19 RT.	322693.7590	317857.9510	——	Set Rbr/AC[11299]: CP-42

VERTICAL CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
606	1202+48.55	140.41 RT.	314904	317833	251.66	Set RR Spike: TBM PHR-606 9" Dia. Cottonwood
607	1226+78.67	149.87 RT.	317232	317559	278.68	Set RR Spike: TBM PHR-607 10" Dia. Birch
608	1252+82.54	128.07 RT.	319830	317735	253.91	Set RR Spike: TBM PHR-608 12" Dia. Cottonwood
620	1277+00.62	129.45 RT.	322241	317920	300.61	Set RR Spike: TBM PHR-620 11" Birch
609	1277+25.52	74.40 RT.	322270	317867	298.36	Fd BC/Rod[USC&GS]: F105 1965

NOTE

1. SEE SHEET 1 FOR NOTES AND CONTROL INFORMATION.

PLANS DEVELOPED BY:
HDL ENGINEERING CONSULTANTS, LLC.
3335 ARCTIC BLVD. SUITE 100
ANCHORAGE, AK. 99503 907-564-2120
REGISTRATION No. AECL 861

STATE OF ALASKA 49TH BRADFORD J. RINCKEY LS - 11299 REGISTERED PROFESSIONAL LAND SURVEYOR 2-22-17

HDL ENGINEERING CONSULTANTS, LLC

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SURVEY CONTROL SHEET

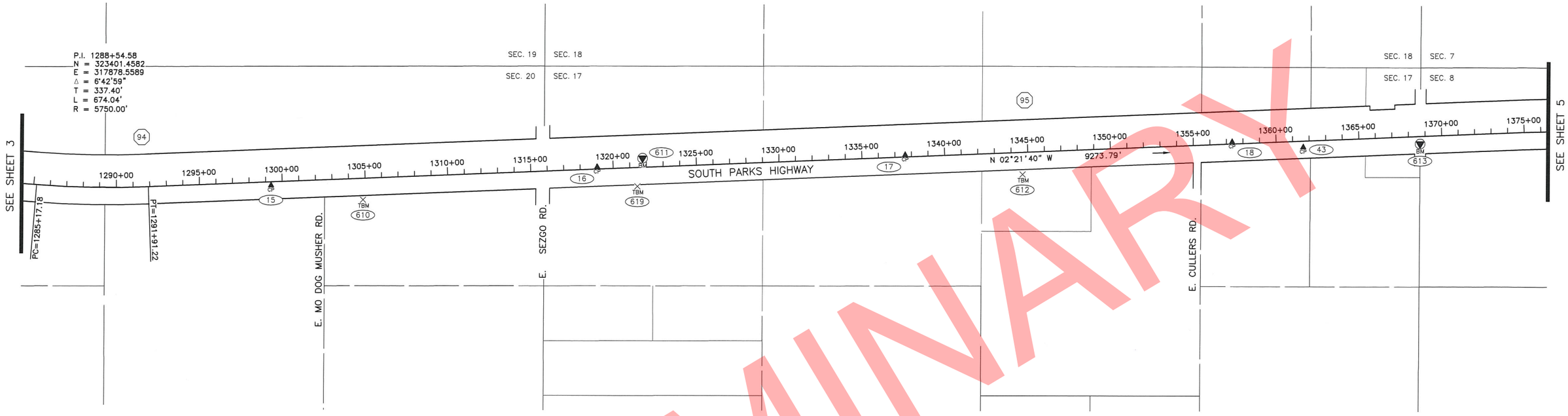
FEDERAL PROJECT NO. 0A41032
Z561770000

PARKS HIGHWAY: M.P. 90-99
REHABILITATION

DRAWN	GEL	DATE	FEB 2017	SCALE	1" = 300'
CHECKED	JJK	DATE	FEB 2017	SHEET	3 OF 6

PRELIMINARY

STATE	YEAR	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	2017	0A41032/Z561770000	A8	A10



U.S. SURVEY FEET

LEGEND

- CP — CONTROL POINT
- TBM — TEMPORARY BENCH MARK
- BM — BENCH MARK
- ## — SURVEY POINT NUMBER
- 95 — MILEPOST

HORIZONTAL CONTROL						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
15	1299+32.12	20.17 RT.	324479.6807	317854.2883	295.63	Set Rbr/AC[11299]: CP-15
16	1319+03.64	13.13 LT.	326448.1522	317739.7857	311.02	Set Rbr/AC[11299]: CP-16
17	1337+63.04	12.90 LT.	328305.9853	317663.4082	307.24	Set Rbr/AC[11299]: CP-17
18	1357+34.40	12.88 LT.	330275.6779	317582.2110	314.13	Set Rbr/AC[11299]: CP-18
43	1361+63.19	36.05 RT.	330706.1160	317613.4380	——	Set Rbr/AC[11299]: CP-43

VERTICAL CONTROL						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
610	1304+83.43	128.69 RT.	325035	317940	308.02	Set RR Spike: TBM PHR-610 6" Dia. Birch
619	1321+41.49	112.99 RT.	326691	317856	307.64	Set RR Spike: TBM PHR-619 16" Birch
611	1321+78.43	54.63 LT.	326721	317687	310.74	Fd BC/Rod[USC&GS]: G105 1965
612	1344+63.65	132.68 RT.	329012	317780	293.37	Set RR Spike: TBM PHR-612 10" Dia. Birch
613	1368+68.32	44.68 RT.	331411	317593	309.82	Fd BC/Rock[USC&GS]: H105 1965

NOTE

1. SEE SHEET 1 FOR NOTES AND CONTROL INFORMATION.

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HDL ENGINEERING CONSULTANTS, LLC.
3335 ARCTIC BLVD. SUITE 100
ANCHORAGE, AK. 99503 907-564-2120
REGISTRATION No. AECL 861

STATE OF ALASKA
49TH
BRADFORD J. RINCKEY
LS - 11299
2-22-17
REGISTERED PROFESSIONAL LAND SURVEYOR

HDL ENGINEERING CONSULTANTS, LLC

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SURVEY CONTROL SHEET

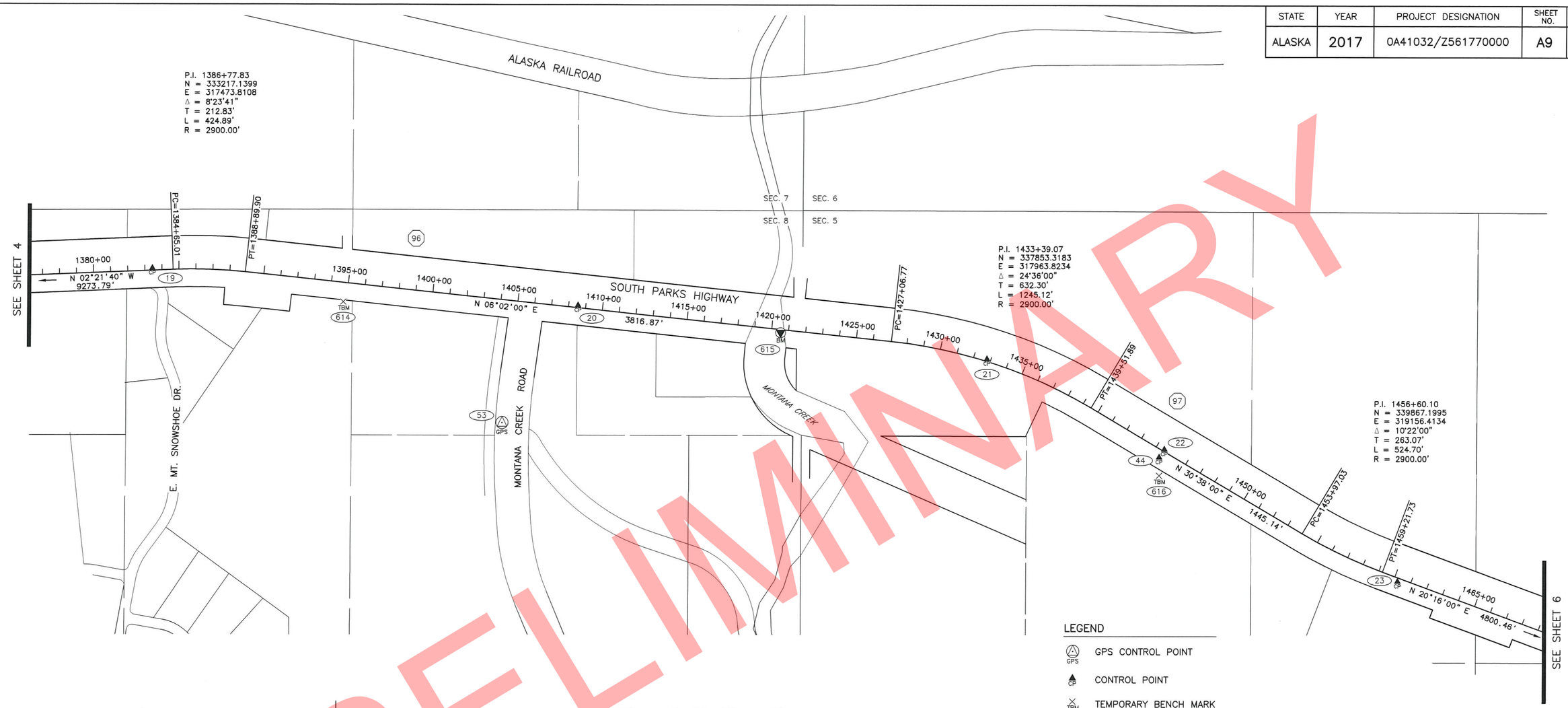
FEDERAL PROJECT NO. 0A41032
Z561770000

PARKS HIGHWAY: M.P. 90-99
REHABILITATION

DRAWN	GEL	DATE	FEB 2017	SCALE	1" = 300'
CHECKED	JJK	DATE	FEB 2017	SHEET	4 OF 6

PRELIMINARY

STATE	YEAR	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	2017	0A41032/Z561770000	A9	A10



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U.S. SURVEY FEET

LEGEND

- GPS CONTROL POINT
- CONTROL POINT
- TEMPORARY BENCH MARK
- BENCH MARK
- SURVEY POINT NUMBER
- MILEPOST

PRELIMINARY

HORIZONTAL CONTROL						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
19	1383+44.04	12.49 LT.	332883.1167	317475.0801	298.74	Set Rbr/AC[11299]: CP-19
53	1404+86.01	717.73 RT.	334940.6163	318377.7010	——	Set AM/Bx[12651-S]: PHR GPS-53
20	1408+54.67	13.99 LT.	335384.1495	317688.7787	256.97	Set Rbr/AC[11299]: CP-20
21	1432+76.68	13.52 LT.	337785.7823	317999.4806	307.74	Set Rbr/AC[11299]: CP-21
44	1444+45.62	43.61 RT.	338799.9810	318575.1100	——	Set Rbr/AC[11299]: CP-44
22	1444+47.87	11.92 LT.	338830.2154	318528.4708	335.90	Set Rbr/AC[11299]: CP-22
23	1460+23.54	21.27 RT.	340202.1246	319302.7589	336.06	Set Rbr/AC[11299]: CP-23

VERTICAL CONTROL						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
614	1394+81.19	112.29 RT.	334005	317670	266.76	Set 8" Spike: TBM PHR-614 5" Spruce
615	1420+54.56	18.29 RT.	336574	317847	258.75	Fd BC[USC&GS]: J105 1965
616	1445+00.61	136.44 RT.	338800	318683	341.00	Set RR Spike: TBM PHR-616 8" Spruce

NOTE

1. SEE SHEET 1 FOR NOTES AND CONTROL INFORMATION.

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HDL ENGINEERING CONSULTANTS, LLC.
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ANCHORAGE, AK 99503 907-564-2120
REGISTRATION No. AECL 861

STATE OF ALASKA 49TH BRADFORD J. RINCKEY LS - 11299 REGISTERED PROFESSIONAL LAND SURVEYOR 2-22-17

HDL ENGINEERING CONSULTANTS, LLC

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

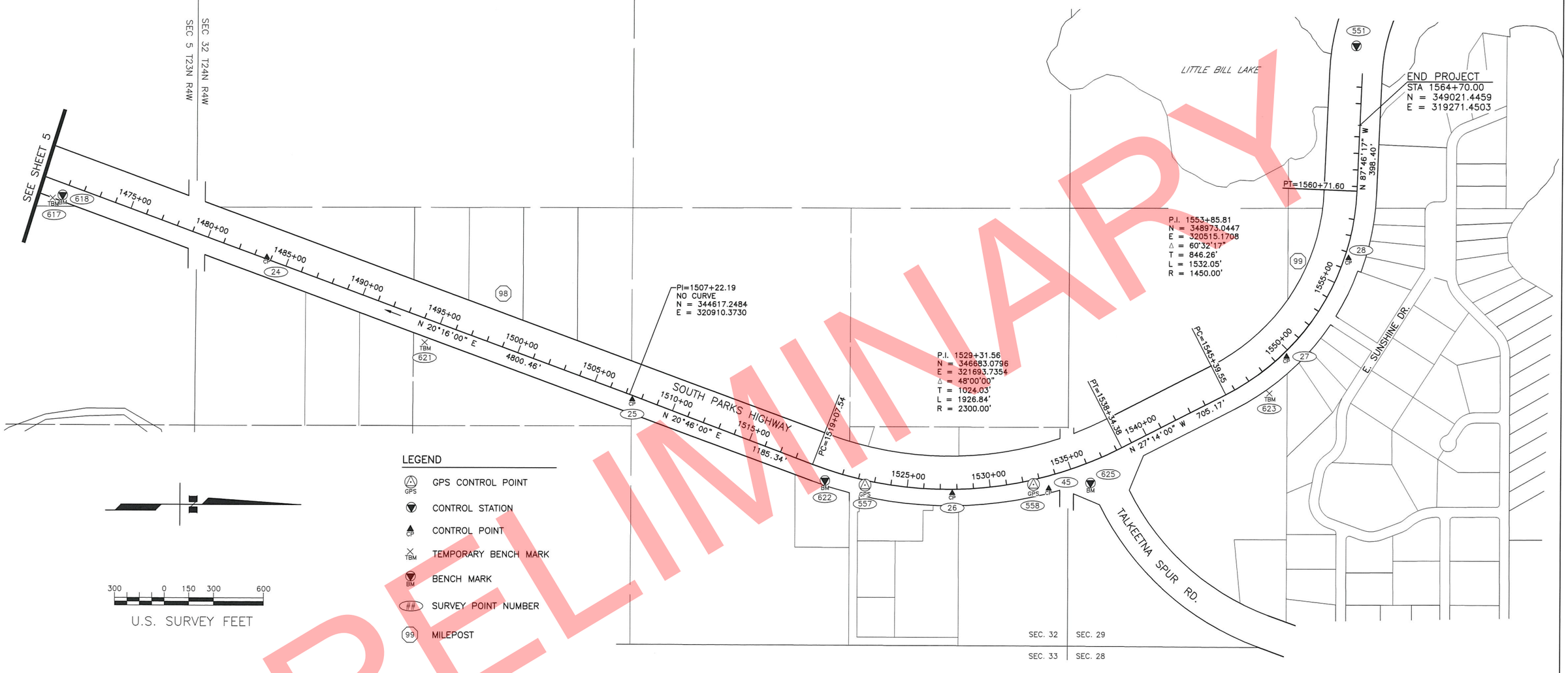
SURVEY CONTROL SHEET

FEDERAL PROJECT NO. 0A41032
Z561770000

PARKS HIGHWAY: M.P. 90-99
REHABILITATION

DRAWN	GEL	DATE	FEB 2017	SCALE	1" = 300'
CHECKED	JJK	DATE	FEB 2017	SHEET	5 OF 6

STATE	YEAR	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	2017	0A41032/Z561770000	A10	A10



PRELIMINARY

300 0 150 300 600

U.S. SURVEY FEET

LEGEND

- GPS CONTROL POINT
- CONTROL STATION
- CONTROL POINT
- TEMPORARY BENCH MARK
- BENCH MARK
- SURVEY POINT NUMBER
- MILEPOST

HORIZONTAL CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
551	N/A	N/A	348995.6808	318791.6671	343.31	Fd BC/Rod[USC&GS]: W105 1965
24	1483+72.74	11.60 LT.	342417.2679	320085.6679	336.49	Set Rbr/AC[11299]: CP-24
25	1507+47.87	21.30 RT.	344633.7022	320939.3929	337.80	Set Rbr/AC[11299]: CP-25
557	1522+47.11	28.51 RT.	346044.7406	321455.0762	——	Fd Rbr/PC[DOT]: GPS-57
26	1527+72.01	22.36 RT.	346572.2275	321502.2300	365.98	Set Rbr/AC[11299]: CP-26
558	1532+59.85	27.49 RT.	347061.5287	321448.6352	——	Fd Rbr/PC[DOT]: GPS-58
45	1533+41.07	72.73 RT.	347152.9620	321472.5590	——	Fd AM[11299]: CP-1
27	1549+68.88	25.30 RT.	348585.5426	320670.8581	376.02	Set Rbr/AC[11299]: CP-27
28	1556+67.36	23.99 RT.	348957.2865	320073.5847	366.72	Set Rbr/AC[11299]: CP-28

VERTICAL CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
617	1470+34.46	103.42 RT.	341122	319730	338.32	Set RR Spike: TBM PHR-617 11" Birch
618	1470+84.86	66.69 RT.	341182	319713	336.38	Fd BC/Rod[USC&GS]: K105 1965
621	1494+50.52	136.58 RT.	343377	320598	331.87	Set RR Spike: TBM PHR-621 9" Birch
622	1520+09.65	66.61 RT.	345801	321428	357.31	Fd BC/Rod[USC&GS]: L105 1965
625	1535+82.21	118.84 RT.	347406	321439	367.06	Fd AM[4469-S]: DOT BM 2001-12
623	1547+57.97	130.48 RT.	348483	320894	372.83	Scribed SW Bolt: TBM PHR-623 Tesoro Sign

NOTE

1. SEE SHEET 1 FOR NOTES AND CONTROL INFORMATION.

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HDL ENGINEERING CONSULTANTS, LLC

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SURVEY CONTROL SHEET

FEDERAL PROJECT NO. 0A41032
Z561770000

PARKS HIGHWAY: M.P. 90-99
REHABILITATION

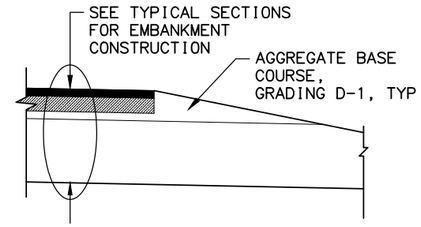
DRAWN	GEL	DATE	FEB 2017	SCALE	1" = 300'
CHECKED	JJK	DATE	FEB 2017	SHEET	6 OF 6

NO.	DATE	REVISION

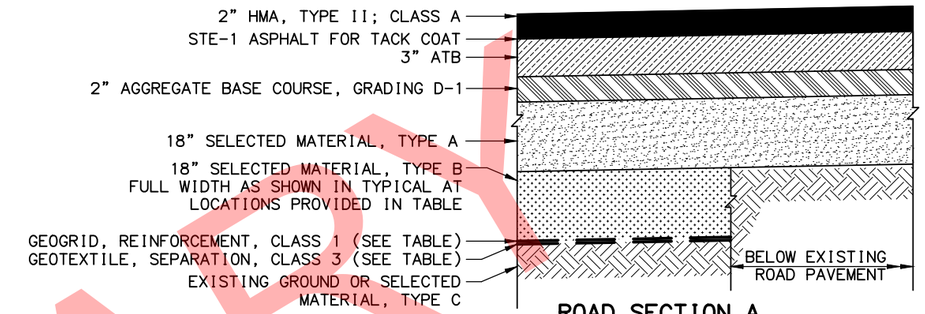
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	B1	B3

TABLE OF SLOPE EXCEPTIONS

SHEET	STATION TO STATION	OFFSET	FORE, CUT OR FILL	SLOPE	REMARKS
F5	1194+35 TO 1196+15	RT	FORE	4:1	MATCH EXIST
F5	1194+35 TO 1196+15	RT	FILL	2:1	MATCH EXIST
F8	1255+75 TO 1270+00	LT/RT	FORE	VARIES	SEE GRADING
F13	1394+00 TO 1396+00	RT	CUT	20:1	SEE NOTE 3
F13-F15	1406+25 TO 1444+70.5	LT/RT	FORE	4:1	SEE GRADING
F13	1394+00 TO 1396+00	RT	CUT	20:1	SEE NOTE 3
F17	1487+00 TO 1488+50	RT	CUT	20:1	SEE NOTE 3
F19-F20	1544+00 TO 1554+00	RT	CUT	20:1	SEE NOTE 3



PAVEMENT EDGE DETAIL



ROAD SECTION A

N.T.S.

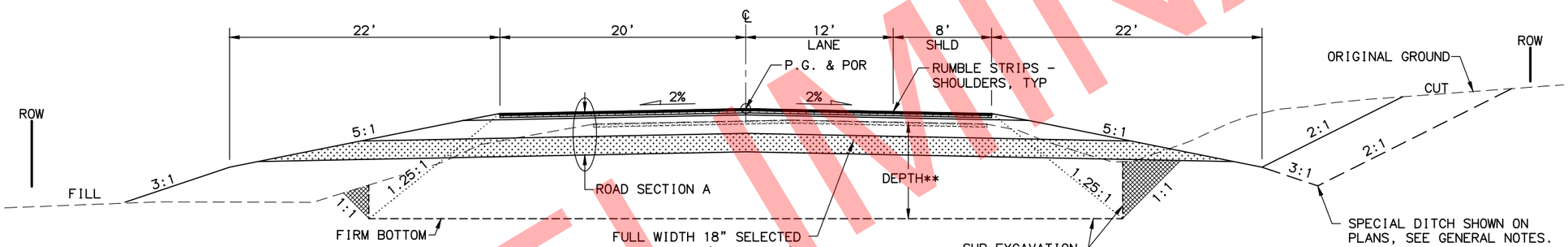
630(1), 634(2)

TABLE OF GEOGRID AND GEOTEXTILE LOCATIONS

STATION TO STATION	GEOGRID, REINFORCEMENT, CLASS 1	GEOTEXTILE SEPARATION, CLASS 3	REMARKS
STA 1350+50 TO STA 1351+50	X		
STA 1486+75 TO STA 1488+75	X		
STA 1525+00 TO STA 1540+00		X	

TABLE OF FULL WIDTH 18" SELECTED MATERIAL, TYPE B

STATION TO STATION
STA 1079+30 TO STA 1090+00
STA 1103+50 TO STA 1117+00
STA 1132+00 TO STA 1143+50
STA 1198+00 TO STA 1231+50
STA 1243+50 TO STA 1258+75
STA 1266+81 TO STA 1280+00
STA 1290+50 TO STA 1332+00
STA 1336+50 TO STA 1351+50
STA 1389+00 TO STA 1396+50
STA 1400+50 TO STA 1405+50
STA 1447+50 TO STA 1564+70

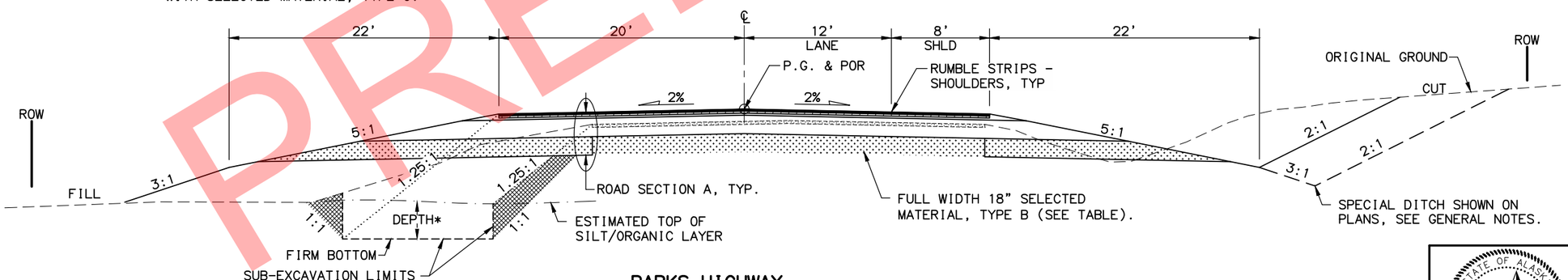


SUB-EXCAVATION

** ESTIMATED DEPTH = 8 FT BELOW EXISTING ROADWAY. EXCAVATE TO FIRM BOTTOM AS APPROVED BY THE ENGINEER AND BACKFILL WITH SELECTED MATERIAL, TYPE C.

PARKS HIGHWAY

STA 1250+25.00 TO STA 1254+00.00



SUB-EXCAVATION

STA 1487+75 LT TO STA 1496+75 LT

* ESTIMATED DEPTH = 2 FT. EXCAVATE TO FIRM BOTTOM AS APPROVED BY THE ENGINEER AND BACKFILL WITH SELECTED MATERIAL, TYPE C.

PARKS HIGHWAY

STA 1079+30.00 TO STA 1156+06.90
STA 1194+35.00 TO STA 1250+25.00
STA 1254+00.00 TO STA 1258+75.00
STA 1266+81.50 TO STA 1292+22.00
STA 1356+72.00 TO STA 1408+00.00
STA 1441+65.00 TO STA 1511+99.00
STA 1546+08.00 TO STA 1564+70.00

NOTES

1. PLACE GEOGRID, REINFORCEMENT OR GEOTEXTILE, SEPARATION BELOW THE SELECTED MATERIAL, TYPE B AND ACROSS THE ENTIRE WIDTH OF ROADWAY EXTENDING 10 FEET BEYOND THE PAVING LIMITS.
2. THE HATCHED AREA ADJACENT TO THE SUB-EXCAVATION LIMITS IS INCLUDED IN THE ESTIMATED BACKFILL QUANTITIES BUT IS NOT INCLUDED IN EXCAVATION QUANTITIES OR PAID FOR AS EXCAVATION.
3. LAY BACK CUT SLOPES TO SHED WATER AT 20:1 (H:V) AT LOCATIONS SHOWN IN TABLE OF SLOPE EXCEPTIONS.

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

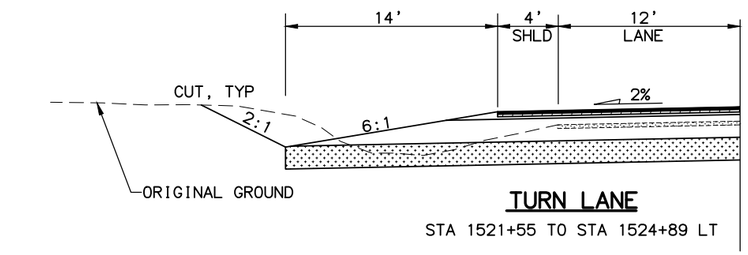
PARKS HWY: MP 90-99
REHABILITATION

TYPICAL SECTIONS

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_B01-B03.DWG BY byermak
H:\Jobs\13-032 Parks Hwy MP 90-99 Rehab (DOT&PF)\10-PS&E\cad\drawings\13032_10_B01-B03, 1=5, 05-24-17 at 12:13 by BCY
DATE/TIME 6/22/2017 2:17 PM | LAYOUT | MODEL | DESIGNED | CHECKED | DRAFTED

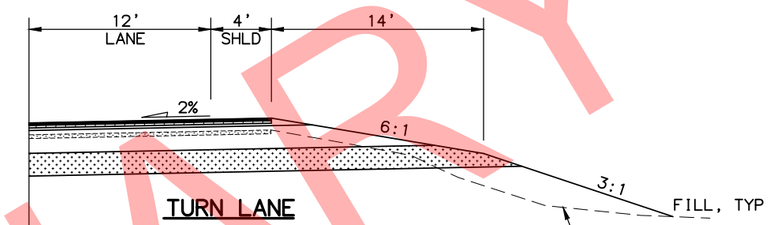
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	B2	B3



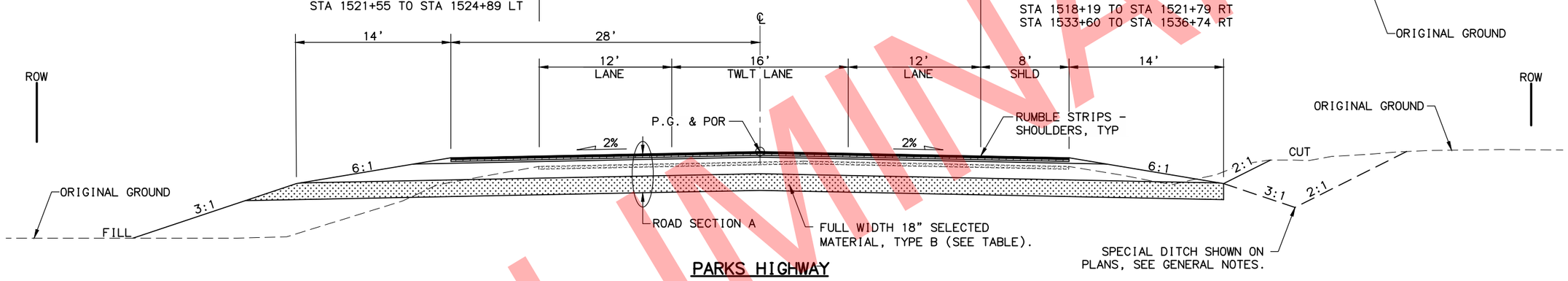
TURN LANE

STA 1521+55 TO STA 1524+89 LT



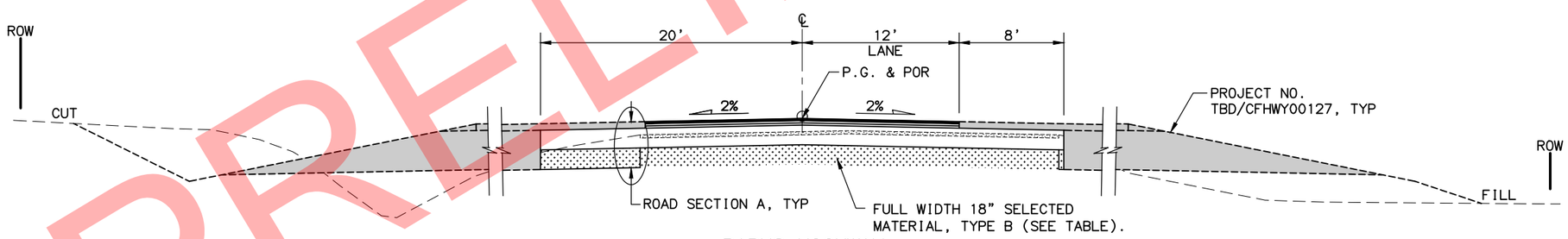
TURN LANE

STA 1518+19 TO STA 1521+79 RT
STA 1533+60 TO STA 1536+74 RT



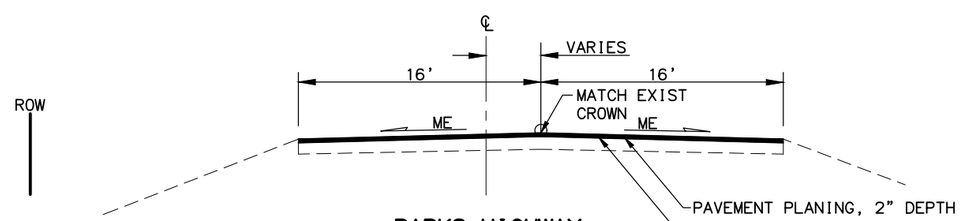
PARKS HIGHWAY

STA 1511+99 TO STA 1546+08



PARKS HIGHWAY

STA 1292+22 TO STA 1356+72



PARKS HIGHWAY

STA 1258+75.00 TO STA 1266+81.50

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99 REHABILITATION

TYPICAL SECTIONS

PRELIMINARY

DATE/TIME 6/22/2017 2:17 PM | LAYOUT | MODEL | DESIGNED DAD | CHECKED RDH | DRAFTED CDB
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_B01-B03.DWG BY bgarmak
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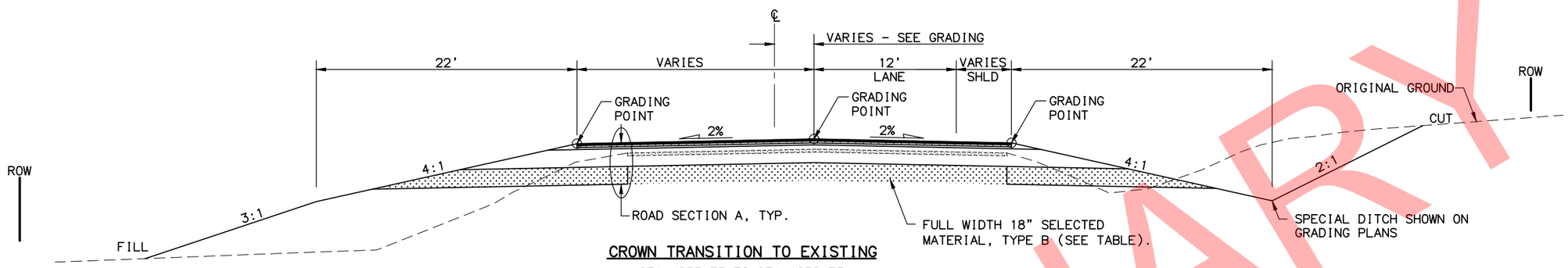
NO.	DATE	REVISION

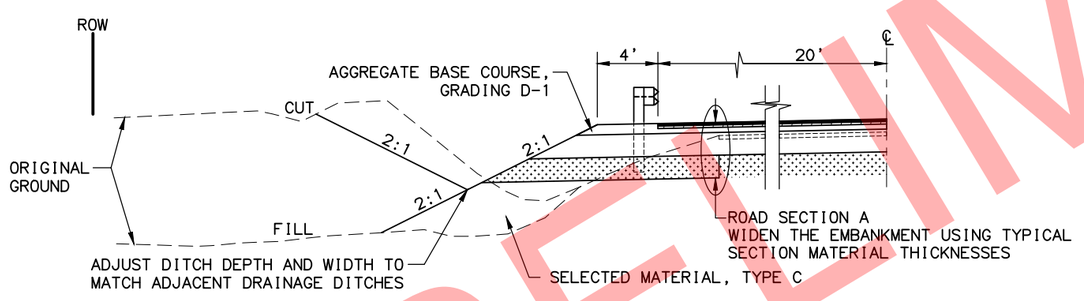
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	B3	B3



CROWN TRANSITION TO EXISTING

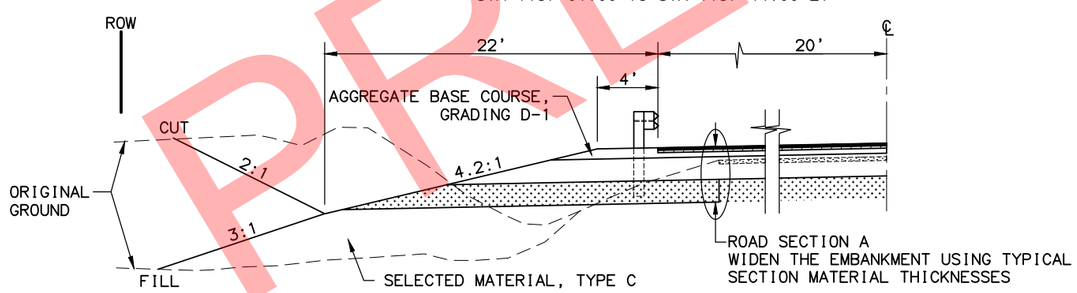
STA 1255+75 TO STA 1258+75
STA 1266+81.5 TO STA 1270+00
STA 1406+52.5 TO STA 1408+00
STA 1441+65 TO STA 1444+70.5

ROADWAY TRANSITION TO EXISTING



GUARDRAIL SECTION

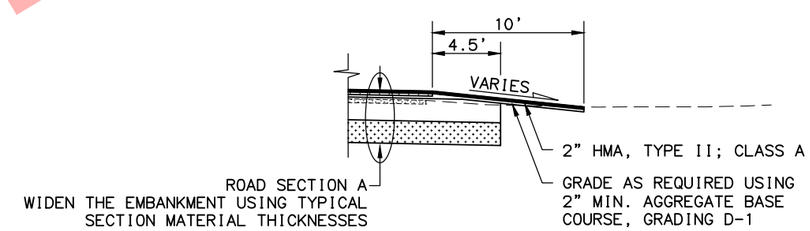
STA 1197+01.00 TO STA 1197+44.00 LT



GUARDRAIL ADVANCEMENT SECTION

STA 1194+96.00 TO STA 1197+01.00 LT
STA 1197+44.00 TO STA 1201+02.00 LT

EMBANKMENT WIDENING FOR GUARDRAIL



PULLOUT TRANSITION

STA 1463+50.00 TO STA 1468+90.00 RT

PRELIMINARY

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49TH
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90–99 REHABILITATION

TYPICAL SECTIONS

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H:\Jobs\13-032 Parks Hwy MP 90-99 Rehab (DOT&PF)\10-PS&E\cad\drawings\13032_10_B01-B03, 1=5, 05-24-17 at 12:13 by BCY
DATE/TIME 6/22/2017 2:17 PM | LAYOUT MODEL | DESIGNED -- | CHECKED -- | DRAFTED --

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	C1	C2

ESTIMATE OF QUANTITIES

ITEM NO	ITEM DESCRIPTION	PAY UNIT	TOTALS
201(1A)	CLEARING	ACRE	185
201(2B)	GRUBBING	LS	ALL REQ'D
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	ALL REQ'D
202(2)	REMOVAL OF PAVEMENT	SY	148,000
202(4)	REMOVAL OF CULVERT PIPE	LF	3,200
202(12)	DOUBLE MAIL BOX INSTALLATION	EA	10
202(15)	PAVEMENT PLANING	SY	2,900
203(3)	UNCLASSIFIED EXCAVATION	CY	200,000
203(6)	BORROW	TON	350,000
203(9)	OBLITERATION OF ROADWAY	SY	3,050
206(1)	FILTER BLANKET	CY	480
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	25,600
306(1)	ATB	TON	31,400
306(2)	ASPHALT BINDER, GRADE PG 52-40	TON	1,700
401(1A)	HMA, TYPE II; CLASS A	TON	21,300
401(4)	ASPHALT BINDER, GRADE PG 52-40	TON	1,150
401(8A)	HMA PRICE ADJUSTMENT, TYPE II; CLASS A	CS	ALL REQ'D
401(15)	ASPHALT MATERIAL PRICE ADJUSTMENT	CS	ALL REQ'D
402(1)	STE-1 ASPHALT FOR TACK COAT	TON	62
406(4)	RUMBLE STRIPS - SHOULDERS	MI	13
406(6)	SWEEPING AND DISPOSAL OF MILLINGS - SHOULDERS	LS	ALL REQ'D
501(1)	CLASS A CONCRETE	LS	ALL REQ'D
602(1A)	STRUCTURAL PLATE PIPE 60 INCH DIAMETER, 10 GAGE	LF	152
602(1B)	STRUCTURAL PLATE PIPE 66 INCH DIAMETER, 10 GAGE	LF	300
602(1C)	STRUCTURAL PLATE PIPE 78 INCH DIAMETER, 10 GAGE	LF	122
602(2B)	STRUCTURAL PLATE PIPE-ARCH 131 INCH SPAN, 85 INCH RISE, 10 GAGE	LF	110
603(17-18)	18 INCH PIPE	LF	1,030
603(17-24)	24 INCH PIPE	LF	750
603(17-36)	36 INCH PIPE	LF	880
603(17-48)	48 INCH PIPE	LF	140
603(20-18)	END SECTION FOR 18 INCH PIPE	EA	50
603(20-24)	END SECTION FOR 24 INCH PIPE	EA	18
603(20-36)	END SECTION FOR 36 INCH PIPE	EA	16

ESTIMATE OF QUANTITIES

ITEM NO	ITEM DESCRIPTION	PAY UNIT	TOTALS
606(1)	W-BEAM GUARDRAIL	LF	500
606(13)	PARALLEL GUARDRAIL TERMINAL	EA	2
610(2)	DITCH LINING	TON	830
611(2A)	RIPRAP, CLASS I	TON	790
611(2B)	RIPRAP, CLASS II	TON	1,065
615(1)	STANDARD SIGN	SF	920
615(6)	SALVAGE SIGN	EA	83
618(2A)	SEEDING, TYPE A	LB	5,450
618(2B)	SEEDING, TYPE B	LB	66
618(3)	WATER FOR SEEDING	MGAL	3,700
619(5)	SEDIMENT RETENTION FIBER ROLLS (SRFRS)	LF	10,000
620(1)	TOPSOIL	SY	229,000
630(1)	GEOTEXTILE, SEPARATION, CLASS 3	SY	12,950
633(1)	SILT FENCE	LF	1,000
634(2)	GEOGRID, REINFORCEMENT, CLASS 1	SY	1,800
639(6)	APPROACH	EA	54
640(1)	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
640(4)	WORKER MEALS AND LODGING, OR PER DIEM	LS	ALL REQ'D
641(1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQ'D
641(2)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	CS	ALL REQ'D
641(6)	WITHHOLDING	CS	ALL REQ'D
641(7)	SWPPP MANAGER	LS	ALL REQ'D
642(1)	CONSTRUCTION SURVEYING	LS	ALL REQ'D
642(3)	THREE PERSON SURVEY PARTY	HR	100
642(14)	CONTRACTOR FURNISHED ENGINEERING TOOLS	CS	ALL REQ'D
642(16)	PASSING SIGHT DISTANCE MEASUREMENT	STA	970

PRELIMINARY

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

ESTIMATE OF QUANTITIES
AND ESTIMATING FACTORS

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DATE/TIME 8/2/2017 2:40 PM LAYOUT MODEL DESIGNED -- CHECKED -- DRAFTED --

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	C2	C2

ESTIMATE OF QUANTITIES

ITEM NO	ITEM DESCRIPTION	PAY UNIT	TOTALS
643(2)	TRAFFIC MAINTENANCE	LS	ALL REQ'D
643(3)	PERMANENT CONSTRUCTION SIGNS	LS	ALL REQ'D
643(15A)	FLAGGING	CS	ALL REQ'D
643(20A)	ANADROMOUS WATERWAY DETOUR	LS	ALL REQ'D
643(23)	TRAFFIC PRICE ADJUSTMENT	CS	ALL REQ'D
643(25)	TRAFFIC CONTROL	CS	ALL REQ'D
643(32)	PORTABLE TOILET	EA	4
644(1)	FIELD OFFICE	LS	ALL REQ'D
644(2)	FIELD LABORATORY	LS	ALL REQ'D
644(8)	VEHICLE(LT/SUV)	EA	4
644(10)	ENGINEERING COMMUNICATIONS	CS	ALL REQ'D
644(15)	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EA	1
644(16)	STORAGE CONTAINER	EA	1
645(1)	TRAINING PROGRAM, 2 TRAINEES/APPRENTICES	LH	1,000
646(1)	CPM SCHEDULING	LS	ALL REQ'D
646(2)	SCHEDULING PRICE ADJUSTMENT	CS	ALL REQ'D
647(1)	WIDE PAD DOZER, 65 HP MIN	CS	ALL REQ'D
647(5)	BACKHOE, 4WD, 1 CY BUCKET, 75 HP MIN, 15 FT DEPTH	CS	ALL REQ'D
670(10)	MMA PAVEMENT MARKINGS	LS	ALL REQ'D
682(1)	VAC-TRUCK POTHOLE	CS	ALL REQ'D
690(13)	ANADROMOUS WATERWAY BANK RESTORATION	LS	ALL REQ'D

TABLE OF ESTIMATING FACTORS

ITEM NO.	ITEM	FACTOR
203(6)	BORROW	144 LB/CF
301(1)	AGGREGATE BASE COURSE, GRADING D-1	144 LB/CF
306(1)	ATB	151 LB/CF
306(2)	ASPHALT BINDER, GRADE 52-40	5.3% OF WEIGHT OF 306(1)
401(1A)	HMA, TYPE II; CLASS A	151 LB/CF
401(4)	ASPHALT BINDER, GRADE PG 52-40	5.3% OF WEIGHT OF 401(1A)
402(1)	STE-1 ASPHALT FOR TACK COAT	0.000334 TON/SY
610(2)	DITCH LINING	1.48 TONS/CY
611(2A)	RIPRAP, CLASS I	108 LB/CF
611(2B)	RIPRAP, CLASS II	108 LB/CF
618(2A)	SEEDING, TYPE A	1.5 LB/1000 SF
618(2B)	SEEDING, TYPE B	1.5 LB/1000 SF
618(3)	WATER FOR SEEDING	1 M GAL/1000 SF

PRELIMINARY

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

ESTIMATE OF QUANTITIES
AND ESTIMATING FACTORS

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_C01.DWG
H:\Jobs\13-032 Parks Hwy MP 90-99 Rehab (DOT&PF)\10-PS&E\cad\drawings\13032_10_C01, 1=1, 06-21-17 at 17:15 by BCY
DATE/TIME 6/21/2017 5:15 PM | LAYOUT | MODEL | DESIGNED -- | CHECKED -- | DRAFTED --

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	D1	D8

EARTHWORK SUMMARY

SHEET	STATION TO STATION	EXCAVATION: UNCLASSIFIED EXCAVATION (CY)	EXCAVATION: WASTE (CY)	EXCAVATION: USABLE EXCAVATION (UNSHRUNK) (CY)	EXCAVATION: USABLE EXCAVATION (SHRUNK) (CY)	EMBANKMENT: SELECTED MATERIAL TYPE A (CY)	EMBANKMENT: SELECTED MATERIAL TYPE B (CY)	EMBANKMENT: SELECTED MATERIAL TYPE C (CY)	EMBANKMENT: TOTAL EMBANKMENT (CY)	IMPORT: SELECTED MATERIAL TYPE A (CY)	IMPORT: SELECTED MATERIAL TYPE B (CY)	IMPORT: SELECTED MATERIAL TYPE C (CY)	EXCESS: USABLE (SHRUNK) (CY)
F1	1079+30 TO 1101+00	14,001	3,500	10,501	9,451	6,610	6,711	4,463	17,784	6,610	1,040	683	
F2	1101+00 TO 1126+50	7,390	1,848	5,542	4,988	7,745	7,955	3,735	19,435	7,745	4,962	1,740	
F3	1126+50 TO 1152+00	7,227	1,807	5,420	4,878	7,681	7,442	7,667	22,790	7,681	4,515	5,716	
F4	1152+00 TO 1156+07	1,997	499	1,498	1,348	1,226	874	93	2,193	1,226	65		446
F5	1194+35 TO 1203+00	5,979	1,495	4,484	4,036	2,659	2,645	369	5,673	2,659	223		1,245
F6	1203+00 TO 1228+50	11,868	2,967	8,901	8,011	7,712	10,003	6,297	24,012	7,712	5,196	3,093	
F7	1228+50 TO 1254+00	13,903	3,476	10,427	9,384	7,767	8,029	1,231	17,027	7,767	2,399		2,523
F8	1254+00 TO 1258+75	4,094	1,024	3,070	2,763	1,386	1,827	3	3,216	1,386	169		1,102
F8	1266+82 TO 1279+50	10,509	2,627	7,882	7,094	3,783	4,927	1,189	9,899	3,783	671		1,649
F9	1279+50 TO 1292+22	7,470	1,868	5,602	5,042	3,823	3,116	1,770	8,709	3,823	91		247
F9	1292+22 TO 1305+00					2,840	2,840		5,680	2,840	2,840		
F10	1305+00 TO 1330+50					5,666	5,666		11,332	5,666	5,666		
F11	1330+50 TO 1356+00					5,179	3,243		8,422	5,179	3,243		
F12	1356+00 TO 1356+72					160	33		193	160	33		
F12	1356+72 TO 1381+50	8,876	2,219	6,657	5,991	7,618	5,501	1,171	14,290	7,618	1,906		1,225
F13	1381+50 TO 1407+00	12,073	3,018	9,055	8,150	7,793	7,778	1,274	16,845	7,793	2,888		1,986
F14	1407+00 TO 1408+00	442	111	331	298	258	143	465	866	258		310	
F15	1441+65 TO 1458+00	14,612	3,653	10,959	9,863	4,888	5,352	800	11,040	4,888			3,711
F16	1458+00 TO 1483+50	22,552	5,638	16,914	15,223	7,671	9,777	7,830	25,278	7,671	643	1,741	
F17	1483+50 TO 1509+00	11,872	2,968	8,904	8,014	7,767	10,129	1,515	19,411	7,767	5,321		1,691
F18	1509+00 TO 1534+50	14,157	3,539	10,618	9,556	10,060	11,558	3,568	25,186	10,060	5,825		254
F19	1534+50 TO 1552+00	13,325	3,331	9,994	8,995	6,447	7,609	567	14,623	6,447	2,212		3,031
F20	1552+00 TO 1564+70	11,229	2,807	8,422	7,580	3,840	4,963	296	9,099	3,840	415		2,736
SUB-EX	1250+25 TO 1254+00	3,526	3,526					3,748	3,748			3,748	
SUB-EX	1487+75 TO 1496+75	2,028	813	1,215	1,094			2,429	2,429			1,335	
F1-F20	APPROACHES					8,780			8,780	8,780			
SUBTOTALS		199,130 (CY)	52,734 (CY)	146,396 (CY)	131,759 (CY)	129,359 (CY)	128,121 (CY)	50,480 (CY)	307,960 (CY)	129,359 (CY)	50,322 (CY)	18,366 (CY)	21,846 (CY)
LESS USABLE EXCAVATION						0 (CY)	77,799 (CY)	50,480 (CY)	128,279 (CY)				
TOTALS		199,130 (CY)				129,359 (CY)	50,322 (CY)	0 (CY)	179,681 (CY)				
BID QUANTITIES		200,000 (CY)							350,000 (TON)				

NOTES:

1. ESTIMATED SHRINKAGE FACTOR = 10% APPLIED TO MATERIALS OBTAINED FROM UNCLASSIFIED EXCAVATION.
2. WASTE = 25% OF UNCLASSIFIED EXCAVATION.
3. EMBANKMENT = SELECTED MATERIAL, TYPE A + SELECTED MATERIAL, TYPE B + SELECTED MATERIAL, TYPE C.
4. THE EXCAVATION AND EMBANKMENT SELECTED MATERIAL, TYPE C QUANTITIES FROM STA 1292+22 TO 1356+72 ARE NOT INCLUDED. THESE QUANTITIES ARE INCLUDED IN PROJECT NO. TBD/CFHWY00127
5. SELECTED MATERIAL, TYPE A FROM USEABLE EXCAVATION IS NOT ANTICIPATED.
6. 60% OF THE USEABLE EXCAVATION IS ESTIMATED TO MEET, AND BE USED AS, SELECTED MATERIAL, TYPE B. ACTUAL AMOUNTS SHALL BE DETERMINED DURING CONSTRUCTION.

PRELIMINARY

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

ESTIMATED EARTHWORK
SUMMARY SHEET

H:\Jobs\13-032 Parks Hwy MP 90-99 Rehab (DOT&PF)\10-PS&E\cad\drawings\13032_10_D01, 1=1, 06-21-17 at 17:18 by BCY
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_D01.DWG BY byarmak
LAYOUT: 10x24 VIEW: 20_PLAN_20_PLAN_TYPE DATE/TIME 6/21/2017 5:18 PM LAYOUT MODEL DESIGNED -- CHECKED -- DRAFTED --

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	D2	D8

202(1)

REMOVAL OF STRUCTURES AND OBSTRUCTIONS

SHEET	STATION	OFFSET (FT)	REMARKS
F9	1300+78	79 RT	UPPER SUSITNA SHOOTERS ASSOC.
	1300+95	79 RT	SHOOTING RANGE OVERHEAD SIGN
	1304+32	84 RT	POST
F12	1367+79	47 LT	PRIVATE BARRICADE
	1368+27	58 LT	PRIVATE BARRICADE
	1370+55	69 LT	PRIVATE SIGN
	1373+76	54 LT	PRIVATE SIGN
F13	1384+20	62 LT	PRIVATE SIGN
	1384+22	61 LT	PRIVATE SIGN
	1384+46	112 RT	PRIVATE SIGN
	1394+39	47 LT	PRIVATE BARRICADE
F16	1464+77	34 LT	PRIVATE BARRICADE
F18	1516+27	46 RT	LIGHTED SCHOOL BEACON SIGN
	1527+70	32 LT	LIGHTED SCHOOL BEACON SIGN
F19	1534+84	74 LT	68 LF WOODEN POST AND BEAM FENCE
	1537+92	81 RT	MATSU BOROUGH FIRE DANGER SIGN
	1547+37	53 LT	STEEL POST
	1547+58	52 LT	STEEL POST

NOTE: DE-ENERGIZE LIGHTED SCHOOL BEACON SIGNS AT LOAD CENTER AS PART OF PROJECT NO. 0A4-1(030)/Z581170000.

202(2)

REMOVAL OF PAVEMENT

SHEET	STATION TO STATION	OFFSET	AREA (SY)	REMARKS
F1	1079+30 TO 1101+00	LT/RT	7,981	
F2	1101+00 TO 1126+50	LT/RT	9,124	
F3	1126+50 TO 1152+00	LT/RT	9,095	
F4	1152+00 TO 1156+07	LT/RT	1,460	
F5	1194+35 TO 1203+00	LT/RT	3,244	
F6	1203+00 TO 1228+50	LT/RT	9,062	
F7	1228+50 TO 1254+00	LT/RT	9,184	
F8	1254+00 TO 1258+75	LT/RT	1,711	
	1266+81.5 TO 1279+50	LT/RT	4,525	
F9	1279+50 TO 1305+00	LT/RT	7,945	
F10	1305+00 TO 1330+50	LT/RT	6,800	
F11	1330+50 TO 1356+00	LT/RT	6,800	
F12	1356+00 TO 1381+50	LT/RT	9,062	
F13	1381+50 TO 1407+00	LT/RT	9,050	
F14	1407+00 TO 1408+41	LT/RT	504	
F15	1441+65 TO 1458+00	LT/RT	5,807	
F16	1458+00 TO 1483+50	LT/RT	9,040	
F17	1483+50 TO 1509+00	LT/RT	9,058	
F18	1509+00 TO 1534+50	LT/RT	13,439	
F19	1534+50 TO 1552+00	LT/RT	9,245	
F20	1552+00 TO 1564+70	LT/RT	5,620	
TOTAL: 147,756				
PAY ITEM QUANTITY: 148,000				

PRELIMINARY

STATE OF ALASKA 49TH RICHARD D. HAMMOND CE-8415 REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SUMMARY SHEET

DATE/TIME 6/22/2017 2:12 PM | LAYOUT | MODEL | DESIGNED -- | CHECKED -- | DRAFTED --
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-FS&E\CAD\DRAWINGS\13032_10_D02-D08.DWG BY byermak
H:\Jobs\13-032 Parks Hwy MP 90-99 Rehab (DOT&PF)\10-FS&E\cad\drawings\13032_10_D02-D08. 1=1. 06-22-17 at 13:55 by BCY

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	D3	D8

202(4) REMOVAL OF CULVERT PIPE

SHEET	STATION	OFFSET (FT)	LENGTH (FT)	REMARKS
F1	1079+59	42 LT	54	
F1	1083+98	3 RT	102	
	1084+94	36 LT	40	
	1097+47	4 RT	98	
F2	1116+99	5 RT	77	
	1120+59	35 LT	61	
	1120+59	88 RT	61	
F3	1134+97	34 LT	50	
	1144+02	2 LT	88	
F5	1197+72	2 LT	89	
	1201+11	15 RT	122	
F6	1209+58	37 RT	37	
	1211+80	4 LT	74	
	1213+91	33 RT	30	
F7	1230+34	41 RT	40	
	1230+71	1 RT	60	
	1236+55	40 RT	39	
	1243+99	3 RT	120	
F8	1269+69	23 LT	42	
	1270+98	29 RT	39	
F9	1288+21	5 RT	110	
F12	1365+76	22 LT	36	
	1368+12	26 LT	55	
	1369+24	3 RT	71	
	1370+06	26 LT	60	
	1377+74	3 RT	71	
F13	1383+99	36 RT	73	
	1405+55	51 RT	61	
	1405+55	48 RT	61	
	1406+25	2 RT	98	
F15	1442+01	1 LT	92	
	1454+55	11 RT	154	
SUB-TOTAL: 2,265				

202(4) REMOVAL OF CULVERT PIPE

SHEET	STATION	OFFSET (FT)	LENGTH (FT)	REMARKS
F16	1461+80	12 RT	95	
	1472+75	1 LT	120	
	1478+63	32 LT	24	
F17	1497+70	50 LT	41	
F18	1509+75	3 RT	92	
	1516+72	0 RT	110	
	1521+72	52 LT	81	
	1521+81	44 RT	76	
	1528+34	37 LT	49	
	1528+65	48 RT	60	
	1530+35	51 RT	72	
F19	1534+98	54 LT	49	
F20	1556+95	51 RT	41	
SUB-TOTAL: 911				
PAY ITEM QUANTITY: 3,200				

202(12) DOUBLE MAIL BOX INSTALLATION

SHEET	EXISTING LOCATION		PROPOSED LOCATION		DOUBLE	REMARKS
	STATION	OFFSET (FT)	STATION	OFFSET (FT)		
F3	1149+28	35 RT	1148+80.80	142 RT	4	E MCKINLEY AVE
F6	1209+69	61 LT	1210+22.38	131 LT	6	E HANRATH RD
PAY ITEM QUANTITY: 10						

PRELIMINARY

STATE OF ALASKA 49TH RICHARD D. HAMMOND CE-8415 REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SUMMARY SHEET

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-FS&E\CAD\DRAWINGS\13032_10_D02-D08.DWG BY byermok
DATE/TIME 6/22/2017 2:12 PM LAYOUT MODEL DESIGNED -- CHECKED -- DRAFTED --
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	D4	D8

202(15)

PAVEMENT PLANING

SHEET	STATION TO STATION	AREA (SY)	REMARKS
F8	1258+75.00 TO 1266+81.50	2,868	
TOTAL: 2,868			
PAY ITEM QUANTITY: 2,900			

203(9)

OBLITERATION OF ROADWAY

SHEET	STATION TO STATION	OFFSET	AREA (SY)	REMARKS
F2	1101+34 TO 1101+77	LT	94	
F5	1198+66 TO 1202+80	RT	607	
F7	1240+52 TO 1242+81	LT	395	
F8	1255+82 TO 1255+94	LT	45	
F12	1362+00 TO 1362+28	LT	49	
	1373+99 TO 1374+29	LT	100	
F13	1383+67 TO 1384+30	LT	81	
	1395+16 TO 1398+59	RT	375	
F17	1486+84 TO 1487+16	RT	173	
	1492+93 TO 1493+20	RT	74	
	1507+07 TO 1507+35	RT	48	
F19	1534+58 TO 1535+16	LT	198	
	1544+12 TO 1546+60	RT	523	
	1547+17 TO 1547+95	RT	182	
TOTAL: 3,021				
PAY ITEM QUANTITY: 3,050				

206(1)

FILTER BLANKET

SHEET	STATION	OFFSET	VOLUME (CY)	REMARKS
E8	1083+51.8	LT	22.0	
	1084+23.8	RT	6.3	
E5	1196+82.9	RT	42.6	
	1197+28.1	LT	59.3	
E6	1201+05.0	RT	4.0	
	1201+24.3	LT	11.3	
E8	1243+96.6	LT	15.6	
	1244+00.9	RT	3.1	
E8	1288+17.1	RT	7.2	
	1288+26.6	LT	31.0	
E7	1405+17.1	RT	86.8	
	1406+14.3	LT	187.3	
TOTAL: 476.5				
PAY ITEM QUANTITY: 480				

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SUMMARY SHEET

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FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_D02-008.DWG BY byarmak
DATE/TIME 7/19/2017 1:14 PM LAYOUT MODEL DESIGNED -- CHECKED -- DRAFTED --

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	D5	D8

602(1), 602(2)

STRUCTURAL PLATE PIPE AND ARCH SUMMARY

SHEET	PIPE No. / TYPE	LENGTH (FT) 60"	66"	78"	131"x85"	INLET LOCATION	INLET INVERT	OUTLET LOCATION	OUTLET INVERT	SLOPE %	TYPE I HEADWALL	REMARKS
F1	CC		181.4			1084+23.84, 73.40 RT	224.50	1083+51.34, 92.89 LT	217.42	3.90	2	BEVEL INLET/OUTLET
F5	CC				108.9	1196+82.92, 56.07 RT	234.09	1197+28.14, 42.91 LT	233.68	0.38	2	BEVEL INLET/OUTLET
	CC	150.1				1201+05.02, 83.29 RT	236.34	1201+24.34, 65.56 LT	235.16	0.79	2	BEVEL INLET/OUTLET
F7	CC		117.3			1244+00.92, 58.22 RT	242.22	1243+96.61, 58.99 LT	242.06	0.14	2	BEVEL INLET/OUTLET
F9	CC			121.0		1288+17.12, 56.45 RT	276.83	1288+26.64, 64.14 LT	275.19	1.36	2	BEVEL INLET/OUTLET
TOTAL		150.1	298.7	121.0	108.9						2	
ROUNDED TOTAL		152	300	122	110						2	

603(17), 603(20)

PIPE SUMMARY

SHEET	PIPE No. / TYPE	LENGTH (FT) 18"	24"	36"	48"	INLET LOCATION	INLET INVERT	OUTLET LOCATION	OUTLET INVERT	SLOPE %	END SECTIONS	TYPE II HEADWALL	REMARKS
F1	DC	32.9				1079+43.97, 42.00 LT	238.75	1079+76.84, 42.00 LT	238.47	0.82	2		
	DC	31.7				1085+08.63, 42.00 LT	236.39	1084+76.91, 42.00 LT	236.24	0.48	2		
	DC	33.5				1091+63.43, 41.98 LT	239.66	1091+29.90, 42.00 LT	239.49	0.51	2		
	CC			120.0		1097+25.00, 55.96 RT	236.04	1097+25.00, 64.06 LT	233.54	2.08	2		
F2	CC		89.8			1114+50.00, 42.74 LT	251.14	1114+50.00, 47.04 RT	249.81	1.48	2		
	CC		99.2			1117+15.00, 49.11 LT	249.86	1117+15.00, 50.07 RT	249.56	0.30	2		
F3	CC			112.0		1144+00.00, 51.14 RT	247.07	1144+00.00, 60.85 LT	245.93	1.02	2		
	SC		82.9			1148+22.26, 42.30 RT	251.26	1149+06.35, 42.27 RT	251.14	0.15	2		
F6	SC		72.1			1209+88.81, 42.25 RT	270.17	1209+16.12, 42.12 RT	269.13	1.45	2		
	CC		93.8			1211+80.00, 41.04 RT	271.70	1211+80.00, 52.75 LT	269.92	1.90	2		
	DC	25.8				1214+04.94, 42.04 RT	273.62	1213+78.81, 42.04 RT	273.54	0.31	2		
F7	SC		63.8			1230+03.96, 48.00 RT	274.42	1230+67.79, 48.00 RT	274.39	0.06	2		
	SC		81.2			1236+13.10, 42.00 RT	267.15	1236+94.29, 42.00 RT	264.71	3.00	2		
F8	DC	41.1				1270+01.03, 42.00 LT	285.11	1269+60.01, 42.00 LT	284.15	2.34	2		
	DC	44.6				1271+18.02, 42.00 RT	289.26	1270+73.43, 42.00 RT	287.74	3.40	2		
F12	DC	27.1				1362+07.70, 42.00 RT	309.51	1362+34.79, 42.00 RT	309.35	0.60	2		
	DC	28.1				1365+64.20, 42.00 LT	307.38	1365+92.30, 42.00 LT	307.21	0.60	2		
	DC	59.5				1367+80.90, 42.00 LT	306.08	1368+40.41, 42.00 LT	305.72	0.60	2		
	DC	28.8				1367+83.87, 42.00 RT	306.06	1368+12.64, 42.00 RT	305.88	0.60	2		
	CC			78.7		1369+24.00, 38.24 RT	304.77	1369+24.00, 40.45 LT	304.11	0.84	2		
	CC			83.3		1377+75.00, 39.41 RT	299.23	1377+75.00, 43.82 LT	297.91	1.59	2		
SUB-TOTAL		353.1	582.8	394.0	0.0								

DRAINAGE SUMMARY LEGEND

CC = CROSSING CULVERT
DC = DRIVEWAY CULVERT
SC = SIDE ST CULVERT
= ANADROMOUS FISH STREAM

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SUMMARY SHEET

DATE/TIME 6/22/2017 4:50 PM | LAYOUT | MODEL | DESIGNED -- | CHECKED -- | DRAFTED --
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	D6	D8

603(17), 603(20)

PIPE SUMMARY (CONTINUED)

SHEET	PIPE No. / TYPE	LENGTH (FT) 18"	24"	36"	48"	INLET LOCATION	INLET INVERT	OUTLET LOCATION	OUTLET INVERT	SLOPE %	END SECTIONS	TYPE II HEADWALL	REMARKS
F13	SC		74.4			1383+64.20, 42.00 RT	295.23	1384+38.54, 42.00 RT	293.69	2.07	2		
	DC	27.3				1394+45.68, 45.60 LT	269.93	1394+72.69, 49.25 LT	268.76	4.32	2		
	DC	27.1				1404+97.96, 42.00 LT	257.27	1405+25.02, 42.00 LT	256.94	1.21	2		
	CC				137.7	1405+17.05, 49.81 RT	252.81	1406+14.34, 47.48 LT	248.72	2.97		2	
F15	CC		92.5			1442+02.00, 46.76 RT	324.91	1442+02.00, 45.73 LT	322.95	2.12	2		
	DC	42.0				1450+97.00, 42.00 LT	331.37	1451+39.00, 42.00 LT	331.01	0.86	2		
	CC			132.7		1454+17.00, 58.43 LT	322.17	1454+17.00, 74.22 RT	320.72	1.09	2		
	DC	38.8				1455+61.46, 42.06 LT	329.72	1455+22.14, 42.06 LT	329.59	0.34	2		
	DC	32.3				1456+61.81, 41.97 RT	332.03	1456+29.97, 41.98 RT	331.96	0.23	2		
F16	CC			112.3		1472+75.00, 53.95 RT	331.04	1472+75.00, 58.36 LT	329.12	1.71	2		
	DC	32.1				1478+46.22, 42.00 LT	335.59	1478+78.27, 42.00 LT	335.42	0.51	2		
F17	DC	65.6				1485+24.69, 43.39 RT	331.87	1485+90.11, 48.27 RT	330.64	1.87	2		
	DC	48.5				1489+37.16, 64.08 RT	327.39	1489+85.60, 66.25 RT	326.92	0.96	2		
	DC	26.7				1497+83.06, 42.00 LT	329.85	1497+56.35, 42.00 LT	329.66	0.72	2		
	DC	30.1				1507+64.75, 42.00 RT	337.09	1507+34.67, 42.00 RT	336.85	0.77	2		
F18	CC			109.8		1509+75.37, 52.51 RT	334.07	1509+80.86, 57.15 LT	332.65	1.29	2		
	CC			123.0		1516+57.00, 53.33 RT	344.49	1516+57.00, 69.54 LT	339.26	4.26	2		
	DC	77.3				1519+98.03, 53.06 RT	354.98	1519+22.55, 51.27 RT	354.11	1.12	2		
	DC	80.0				1528+80.99, 44.96 LT	361.81	1527+99.39, 46.71 LT	360.99	1.02	2		
F20	DC	39.8				1554+38.85, 41.69 RT	367.88	1554+77.47, 41.72 RT	367.08	2.00	2		
	DC	43.1				1556+74.89, 41.74 RT	362.08	1557+16.74, 41.91 RT	360.84	2.89	2		
	DC	47.6				1563+49.61, 46.80 RT	338.95	1563+97.03, 50.81 RT	337.24	3.59	2		
SUB-TOTAL		658.3	166.9	477.8	137.7								
TOTAL		1011.4	749.7	871.8	137.7								
ROUNDED TOTAL		1030	750	880	140								

DRAINAGE SUMMARY LEGEND

CC = CROSSING CULVERT
DC = DRIVEWAY CULVERT
SC = SIDE ST CULVERT
= ANADROMOUS FISH STREAM

PRELIMINARY

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49TH
RICHARD D. HAMMOND
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PARKS HWY: MP 90-99
REHABILITATION

SUMMARY SHEET

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NO.	DATE	REVISION

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ALASKA	0A41032/Z561770000	2017	D7	D8

606(1), 606(13)

W-BEAM GUARDRAIL AND END TREATMENT

SHEET	STATION TO STATION	OFFSET	LENGTH (FT)	PARALLEL GUARDRAIL TERMINAL	REMARKS
F5	1195+46.72 TO 1200+51.51	LT	500.00	2	

610(2)

DITCH LINING

SHEET	STATION FROM	STATION TO	OFFSET	QUANTITY (TON)	REMARKS
F1	1082+65	1083+25	LT	41.3	
	1083+25	1084+11	RT	42.9	
	1083+68	1084+68	LT	56.1	
	1084+41	1085+25	RT	42.5	
	1095+75	1099+09	LT	32.9	
	1099+85	1100+25	RT	29.7	
F5	1196+82.9	1197+28.1	RT/LT	100.2	CULVERT CHANNEL RELOCATION
F7	1239+40	1239+55	LT	17.6	
	1241+15	1241+88	RT	32.9	
	1242+70	1242+70	RT	3.6	EXISTING UNDERDRAIN ROCK OUTFALL
	1243+50	1243+92	LT	19.7	
F9	1285+20	1286+37	RT	54.8	
	1285+76	1287+06	LT	58.8	
	1289+85	1290+38	LT	24.6	
	1290+25	1290+63	RT	17.6	
	1299+96	1300+25	RT	13.2	
F11	1347+11	1347+46	LT	20.1	
F15	1443+00	1443+25	RT	11.0	
	1450+25	1451+02	RT	37.3	
	1455+41	1455+75	RT	17.6	
F18	1510+37	1511+25	LT	42.0	
	1517+45	1518+63	LT	57.0	
F20	1564+00	1564+70	LT	34.2	
	1564+25	1564.70	RT	21.0	
TOTAL: 828.6					
PAY ITEM QUANTITY: 830 TONS					

611(2A)

RIPRAP, CLASS I

SHEET	STATION	OFFSET	QUANTITY (TON)	REMARKS
F5	1196+82.9	RT	111.0	
	1197+07.9		95.1	TO BE PLACED IN CULVERT BARREL
	1197+28.1	LT	151.9	
	1201+05.0	RT	36.1	
	1201+07.9		49.3	TO BE PLACED IN CULVERT BARREL
	1201+24.3	LT	49.2	
F7	1243+96.6	LT	65.7	
	1244+00.9	RT	40.6	
F13	1405+17.0	RT	86.4	
	1406+14.3	LT	101.2	
TOTAL: 786.5 TON				
PAY ITEM QUANTITY: 790 TON				

611(2B)

RIPRAP, CLASS II

SHEET	STATION	OFFSET	QUANTITY (TON)	REMARKS
F1	1083+51.8	LT	115.2	
	1084+23.8	RT	74.2	
F9	1288+17.1	RT	82.5	
	1288+26.6	LT	157.8	
F13	1405+17.0	RT	162.0	
	1406+14.3	LT	470.8	
TOTAL: 1,062.5 TON				
PAY ITEM QUANTITY: 1,065 TON				

PRELIMINARY

STATE OF ALASKA 49TH RICHARD D. HAMMOND CE-8415 REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SUMMARY SHEET

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_D02-D08.DWG BY byermak
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DATE/TIME 6/22/2017 2:12 PM | LAYOUT | MODEL | DESIGNED -- | CHECKED -- | DRAFTED --

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	D8	D8

639(6)

APPROACH SUMMARY

SHEET	STATION	OFFSET	MAT'L	WIDTH (FT)	LENGTH (FT)	REQ'D ACTION	RETURN RADIUS (FT)	SKEW ANGLE	REMARKS
F1	1079+60	LT	GVL	14	30	1	20		
	1084+93	LT	GVL	14	66	1	20		
	1091+47	LT	GVL	14	32	1	20		
F2	1111+25	RT	GVL	14	65	1	20		
	1115+04	LT	GVL	14	65	1	20		
	1120+60	LT	GVL	24	74	1	40		S YANCEY DR
	1120+60	RT	GVL	24	130	1	40		S YANCEY DR
F3	1134+97	LT	GVL	24	175	1	40		E FALCON DR
	1148+33	LT	GVL	24	155	1	40	-27°	E CHISUM DR
	1148+45	RT	GVL	24	188	2	40	-24°	E MCKINLEY AVE
F4	1155+06	LT	HMA	24	20	1	20		
F6	1209+66	RT	GVL	24	75	1	40	18°	E BIG TIMBER CIR
	1209+72	LT	HMA	24	100	1	40	16°	E HANRATH RD
	1213+90	RT	GVL	14	65	1	20		
	1223+18	RT	HMA	24	100	1	40	-14°	E KASHWITNA RD
F7	1230+36	RT	GVL	24	100	1	40		E MONTANA DR
	1236+52	RT	GVL	24	80	1	40		E VERONA CIR
F8	1269+82	LT	GVL	16	72	2	20		
	1270+98	RT	GVL	20	33	1	20		
F12	1362+21	RT	GVL	14	47	1	20		
	1365+78	LT	HMA	14	32	1	20		
	1367+98	RT	GVL	14	40	1	20		
	1368+09	LT	GVL	24	65	1	40		
	1369+87	RT	GVL	14	38	2	20		
	1370+08	LT	GVL	24	55	1	40		
	1378+33	RT	GVL	14	42	2	20		
F13	1384+00	RT	GVL	24	115	1	40		E MT SNOWSHOE DR
	1394+58	LT	GVL	14	50	1	20		
	1405+11	LT	GVL	14	37	1	20		
	1405+61	RT	HMA	24	75	1	40	03°	E MONTANA CREEK RD
F15	1451+18	LT	GVL	14	39	1	20		
	1455+42	LT	GVL	14	30	2	20		
	1456+46	RT	GVL	14	30	1	20		
F16	1464+54	LT	GVL	14	95	2	20		
	1478+62	LT	GVL	14	30	1	20		
SUB-TOTAL: 35									

639(6)

APPROACH SUMMARY

SHEET	STATION	OFFSET	MAT'L	WIDTH (FT)	LENGTH (FT)	REQ'D ACTION	RETURN RADIUS (FT)	SKEW ANGLE	REMARKS
F17	1485+58	RT	GVL	24	43	1	40		
	1489+61	RT	GVL	24	69	1	40		
	1495+38	RT	HMA	24	55	1	40		
	1497+70	LT	GVL	14	60	1	20		
	1507+50	RT	GVL	14	59	2	20		
F18	1519+63	RT	GVL	24	50	1	40		
	1521+55	LT	HMA	26	60	1	40		
	1521+78	RT	HMA	24	52	1	40	-12°	E HELENA AVE
	1528+41	LT	GVL	32	70	1	40		
F19	1536+74	RT	HMA	40	62	1	50		S TALKEETNA SPUR RD
	~~1539+08~~	~~RT~~	~~HMA~~	~~34~~	~~66~~	~~1~~	~~40~~		NIC
	1542+65	LT	HMA	34	74	1	40		
	~~1546+89~~	~~RT~~	~~HMA~~	~~34~~	~~84~~	~~2~~	~~40~~		NIC
	1547+47	LT	GVL	16	43	1	20		
	1549+89	RT	GVL	20	60	1	20		
F20	1552+99	RT	HMA	24	80	1	40		S SUNSHINE LN
	1554+57	RT	GVL	24	44	2	20		
	1556+82	LT	GVL	14	35	1	20		
	1556+94	RT	GVL	20	33	1	20		
	1563+65	LT	GVL	14	54	1	20		
	1563+69	RT	GVL	14	59	1	20		
SUB-TOTAL: 19									
PAY ITEM QUANTITY: 54 EA									

REQUIRED ACTION CODE:
(1) REPLACE IN KIND
(2) NEW LOCATION AS SHOWN ON PLAN

MATERIAL CODE:
GVL - UNPAVED
HMA - PAVED

PRELIMINARY

STATE OF ALASKA 49TH RICHARD D. HAMMOND CE-8415 REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SUMMARY SHEET

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_D02-DOB-NOTCP.DWG BY: byarmak
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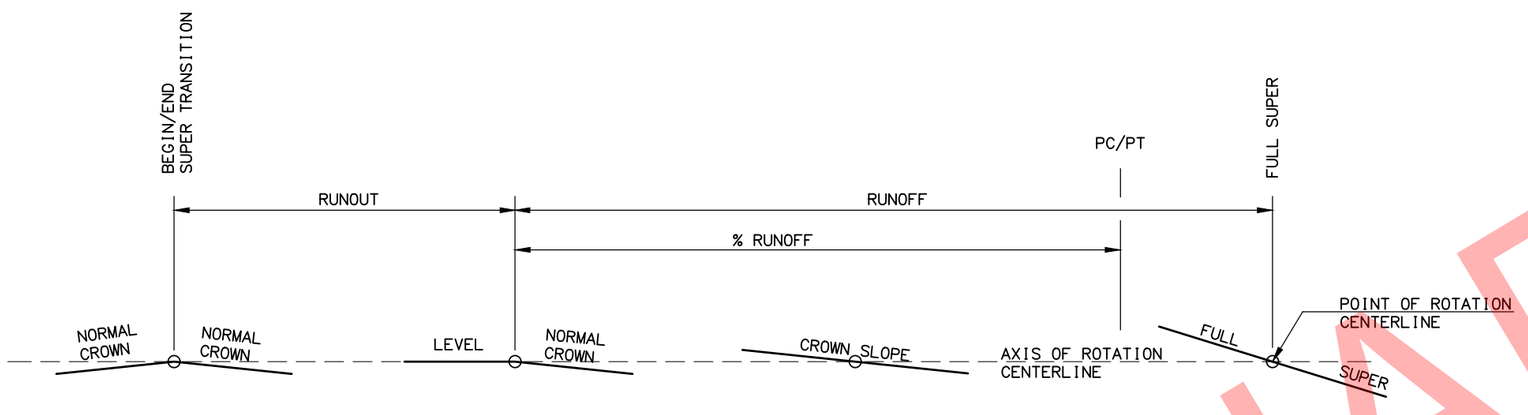
DATE/TIME 8/2/2017 2:49 PM LAYOUT MODEL DESIGNED -- CHECKED -- DRAFTED --

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	E1	E8



SUPERELEVATION TRANSITION

NOTES:

1. BUILD SUPERELEVATION INTO SUBGRADE AND CARRY THROUGH SHOULDERS.
2. % RUNOFF = PORTION OF RUNOFF ON TANGENT. USE 70% RUNOFF FOR ALL CURVES EXCEPT THE HORIZONTAL CURVE LOCATED AT PI STA 1529+31.56. FOR THE HORIZONTAL CURVE LOCATED AT PI STA 1529+31.56 USE THE FOLLOWING:
   - 85% RUNOFF AT THE PC, AND
   - 75% RUNOFF AT THE PT
3. WIDENING FOR GUARDRAIL OR CURVATURE DOES NOT CHANGE THE LOCATION OF THE AXIS OF ROTATION.

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SUPERELEVATION TRANSITION
DETAIL

DATE/TIME 5/24/2017 2:07 PM | LAYOUT SUPER | DESIGNED -- | CHECKED -- | DRAFTED --
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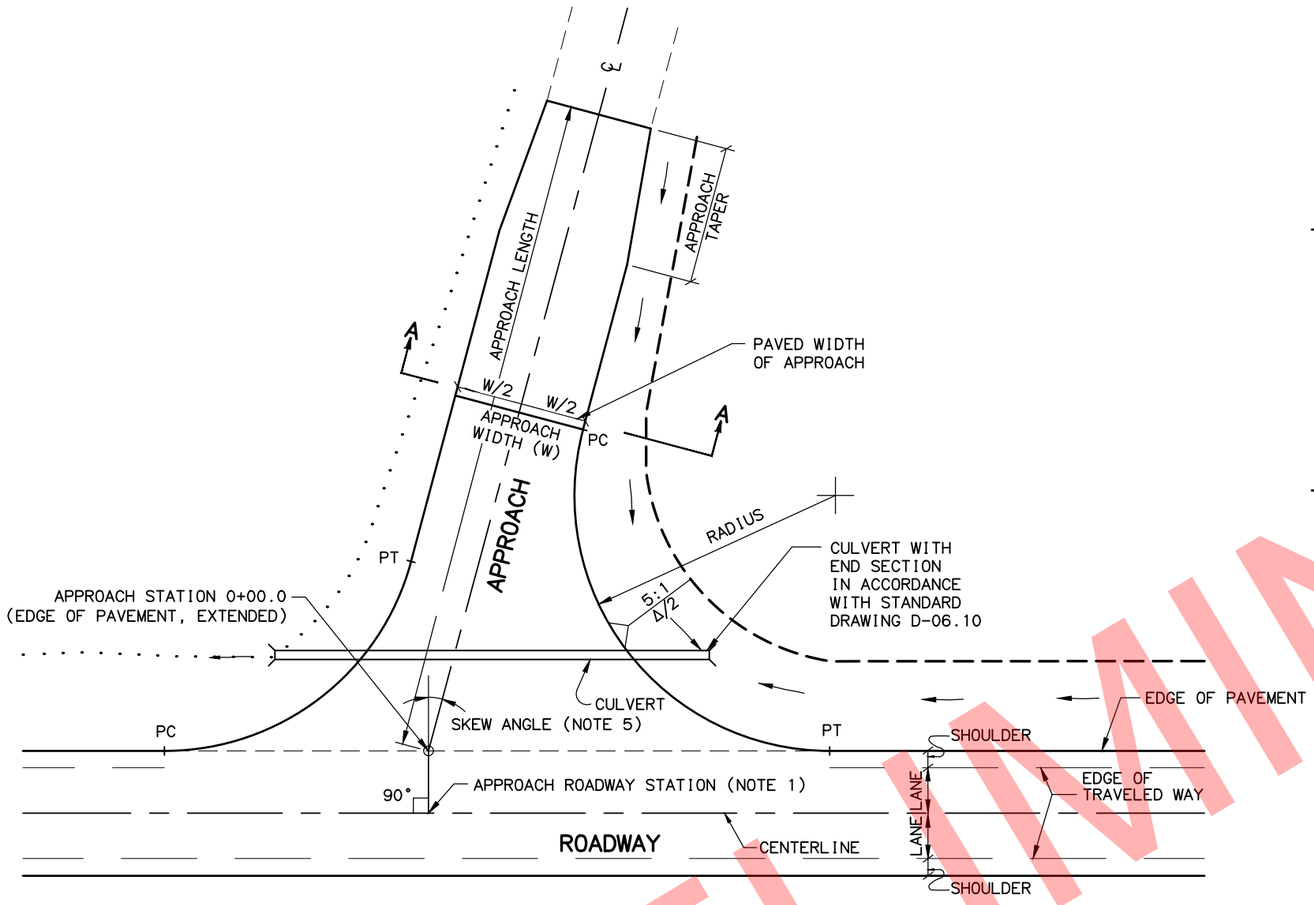
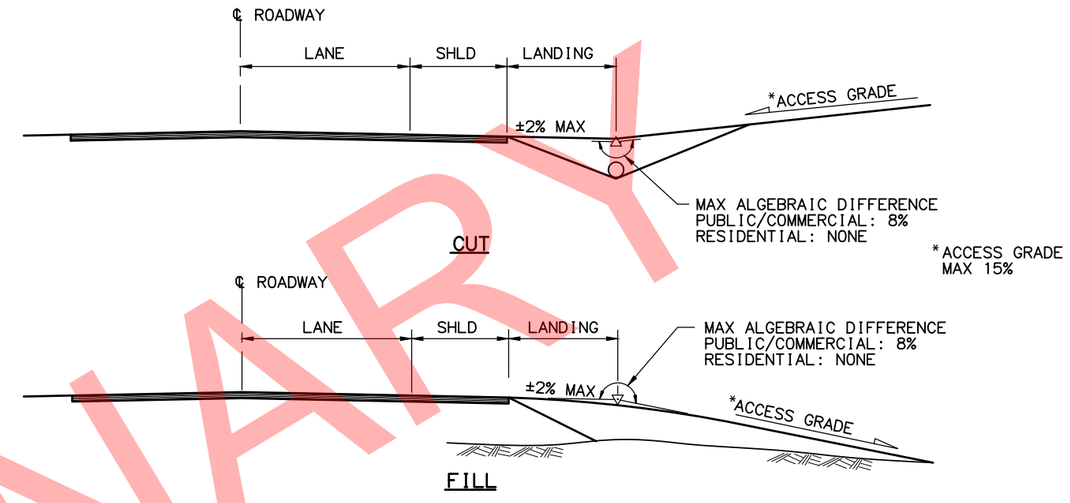
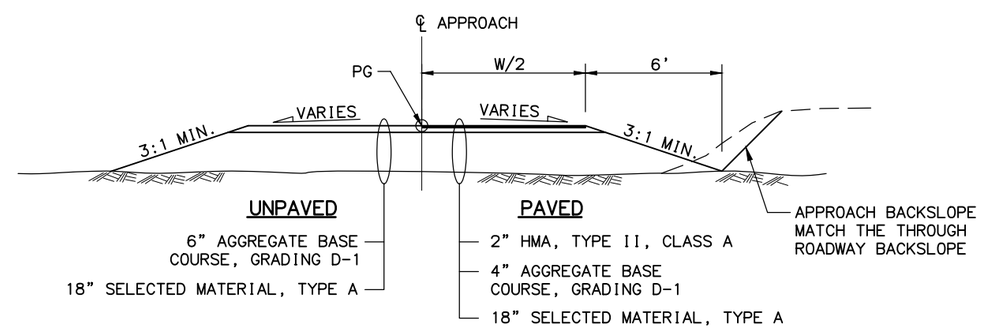
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	E2	E8





APPROACH PROFILE REQUIREMENTS



APPROACH SECTION A-A

NOTES:

1. SEE APPROACH SUMMARY FOR APPROACH ROADWAY STATION, OFFSET, LENGTH, WIDTH, DESIGN RADIUS, AND SKEW ANGLE.
2. PAVE TO THE END OF THE RADIUS RETURN USING THE SAME MATERIALS AND THICKNESSES AS THOSE REQUIRED FOR THE ROADWAY AS SHOWN IN THE PLANS.
3. BEYOND THE PAVED RADIUS RETURN USE THE STRUCTURAL SECTION AS SHOWN IN APPROACH SECTION, SECTION A-A.
4. APPROACH VERTICAL CURVE REQUIREMENTS:
   CREST - 3 1/4-IN MAX IN A 12-FOOT CHORD
   SAG - 2-IN MAX IN A 12-FOOT CHORD
5. THE SKEW ANGLE IS THE ANGLE BETWEEN A LINE, PERPENDICULAR TO THE ROADWAY CENTERLINE, AND THE CENTERLINE OF THE APPROACH. POSITIVE FOR CLOCKWISE AND NEGATIVE FOR COUNTERCLOCKWISE ROTATION.
6. WARP APPROACH FORESLOPE TO MATCH THE THROUGH ROADWAY FORESLOPE WITHIN HALF THE LENGTH OF THE RETURN RADIUS AND MAINTAIN THE THROUGH ROADWAY FORESLOPE FROM THE RETURN RADIUS MIDPOINT TO THE THROUGH ROADWAY, OR AS DIRECTED BY THE ENGINEER.
7. APPROACH TAPER NOT TO EXCEED 10 FEET ALONG CENTERLINE OR AS DETERMINED BY THE ENGINEER AND MATCH EXISTING APPROACH WIDTH.

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
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REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

APPROACH DETAILS

DATE/TIME 5/24/2017 2:07 PM | LAYOUT | MODEL | DESIGNED RDH | CHECKED -- | DRAFTED --
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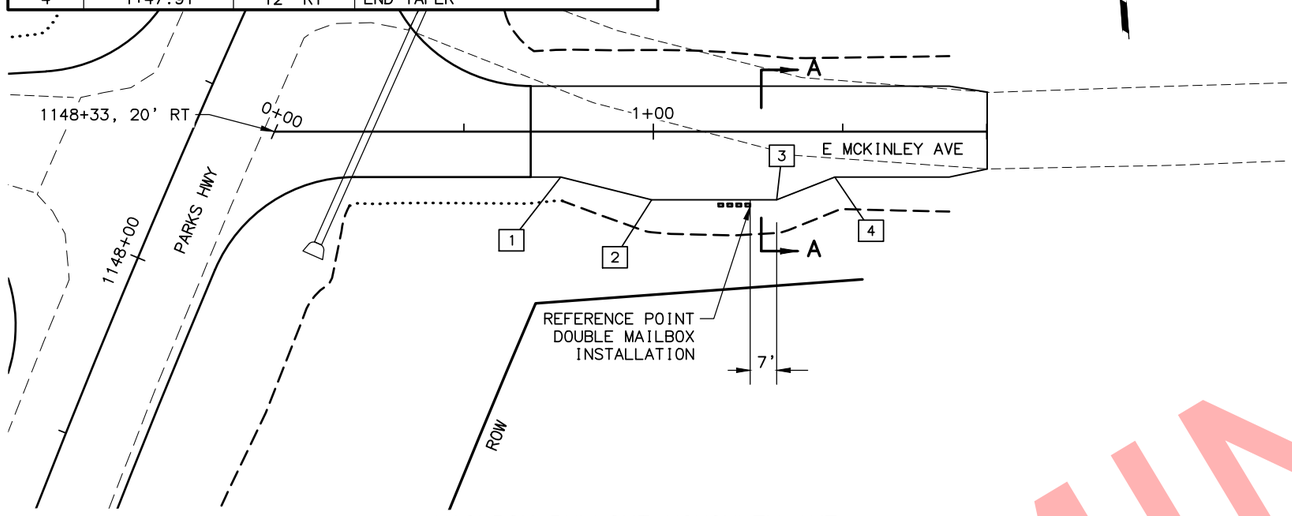
NO.	DATE	REVISION

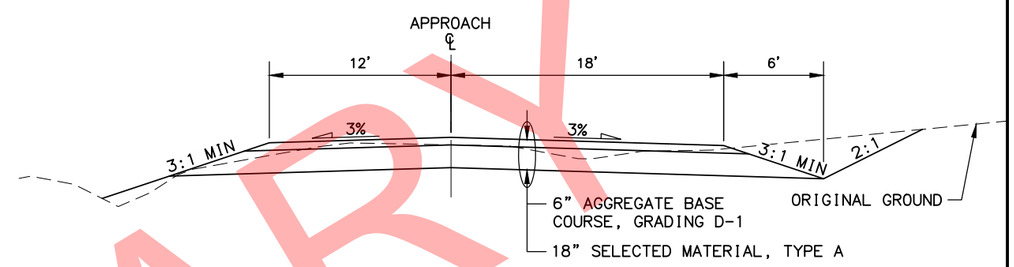
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	E3	E8

PULLOUT LAYOUT SCHEDULE

POINT	APPROACH STATION	OFFSET	REMARKS
1	0+75.56	12' RT	BEGIN TAPER
2	0+99.56	18' RT	END TAPER
3	1+32.56	18' RT	BEGIN TAPER
4	1+47.91	12' RT	END TAPER



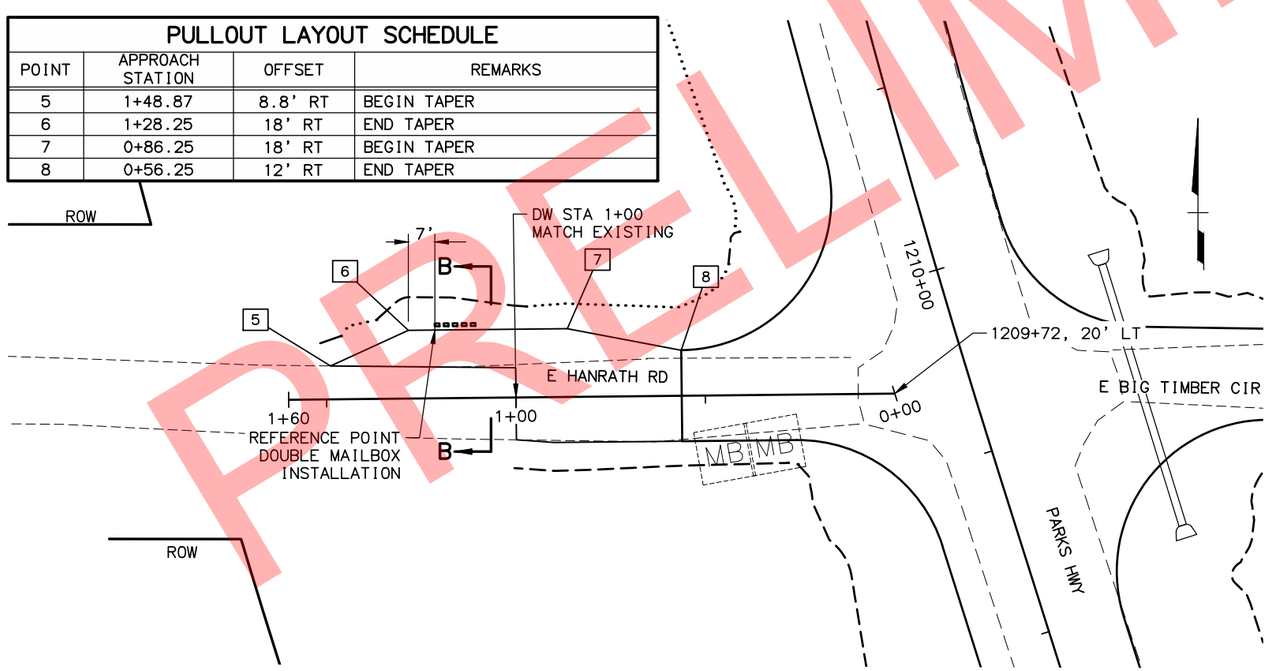
MAILBOX PULLOUT-MCKINLEY AVE
PLAN VIEW



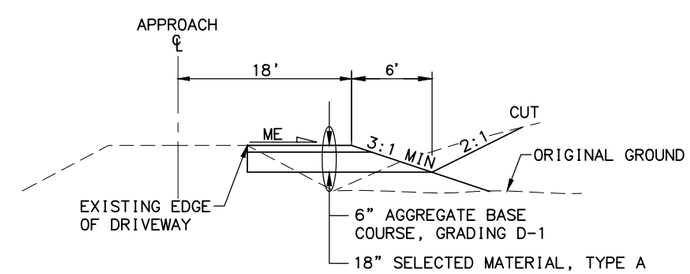
SECTION A-A

PULLOUT LAYOUT SCHEDULE

POINT	APPROACH STATION	OFFSET	REMARKS
5	1+48.87	8.8' RT	BEGIN TAPER
6	1+28.25	18' RT	END TAPER
7	0+86.25	18' RT	BEGIN TAPER
8	0+56.25	12' RT	END TAPER



MAILBOX PULLOUT-HANRATH RD
PLAN VIEW



SECTION B-B

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

MAILBOX PULLOUT DETAILS

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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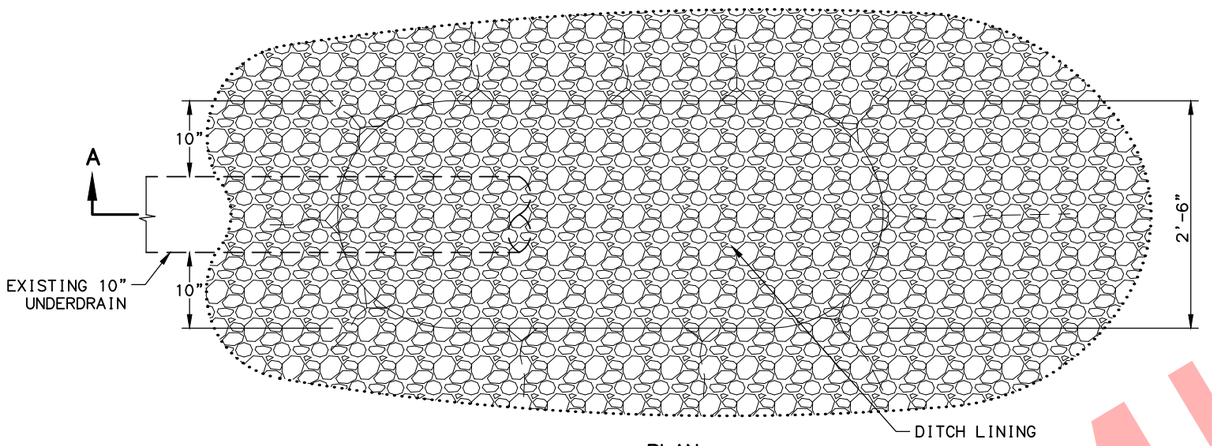

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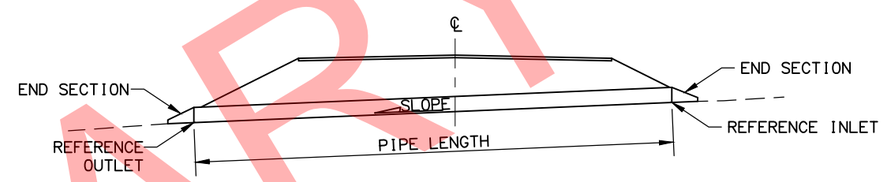
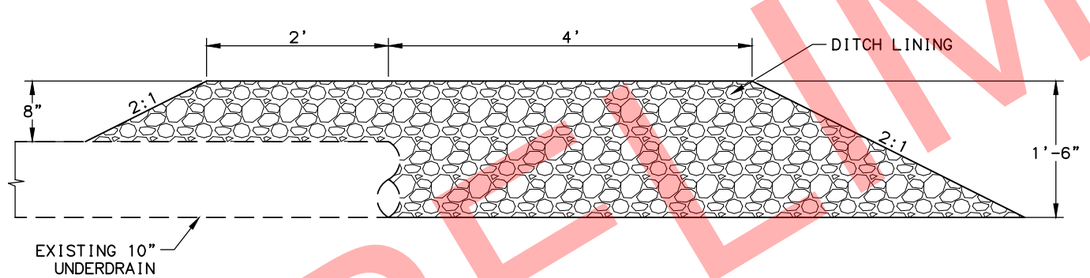


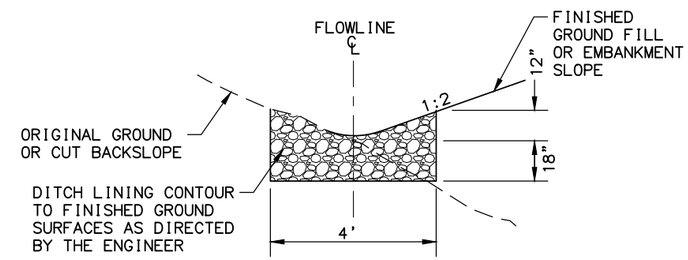
TYPICAL CULVERT SECTION

PIPES LESS THAN 48"



SECTION A-A

STA 1242+70 RT
EXISTING UNDERDRAIN ROCK OUTFALL



DITCH LINING

CUT TO FILL DISCHARGES

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

DRAINAGE DETAILS

DATE/TIME	DESIGNED	CHECKED	DRAFTED
5/24/2017 2:07 PM	--	--	--

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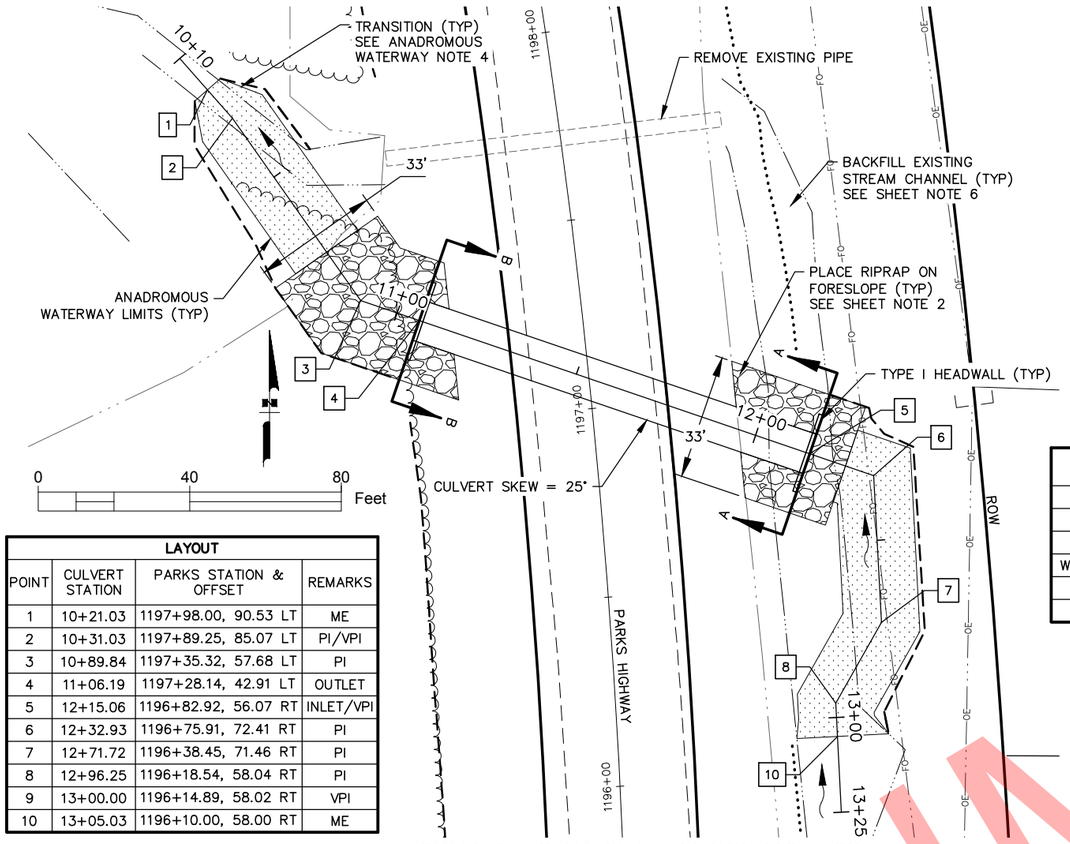
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	E5	E8

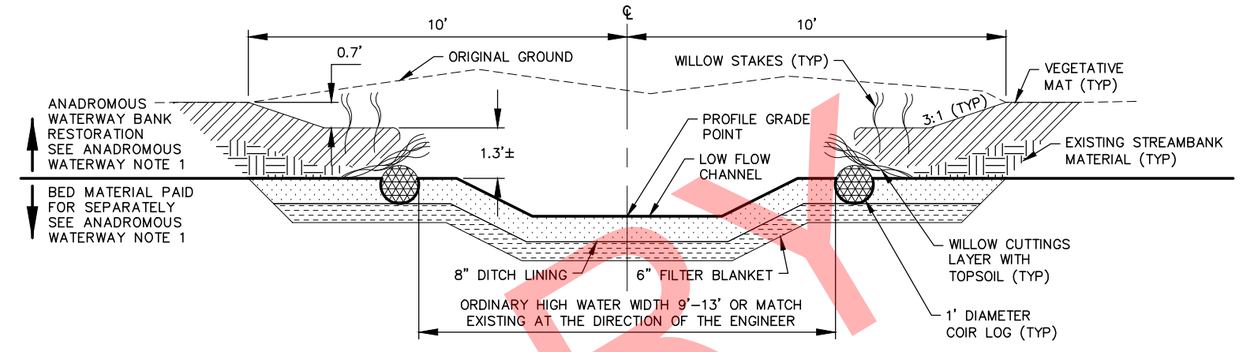


CULVERT PLAN STA: PARKS 1197+08

LAYOUT			
POINT	CULVERT STATION	PARKS STATION & OFFSET	REMARKS
1	10+21.03	1197+98.00, 90.53 LT	ME
2	10+31.03	1197+89.25, 85.07 LT	PI/VPI
3	10+89.84	1197+35.32, 57.68 LT	PI
4	11+06.19	1197+28.14, 42.91 LT	OUTLET
5	12+15.06	1196+82.92, 56.07 RT	INLET/VPI
6	12+32.93	1196+75.91, 72.41 RT	PI
7	12+71.72	1196+38.45, 71.46 RT	PI
8	12+96.25	1196+18.54, 58.04 RT	PI
9	13+00.00	1196+14.89, 58.02 RT	VPI
10	13+05.03	1196+10.00, 58.00 RT	ME

SHEET NOTES

1. SHAPE LOW-FLOW CHANNEL IN RIPRAP AS DIRECTED BY THE ENGINEER. AFTER PLACEMENT OF RIPRAP, FILL VOIDS IN RIPRAP WITHIN STREAM CHANNEL WITH A UNIFORM MIXTURE OF SAND, GRAVEL AND COBBLES. BLEND MATERIAL PRIOR TO PLACING IN RIPRAP. MATERIAL IS SUBSIDIARY TO RIPRAP.
2. WARP SLOPE TO ACCOMMODATE HEADWALL SKEW, MAINTAIN 2:1 SLOPES TO MATCH CULVERT BEVEL.
3. RIPRAP, DITCH LINING, AND FILTER BLANKET THICKNESS IS MEASURED PERPENDICULAR TO FINISHED GROUND.
4. ALIGN HEADWALLS PERPENDICULAR TO CULVERT.
5. TIE IN RIPRAP TO FORESLOPE AS SHOWN ON SHEET E8.
6. BACKFILL EXISTING STREAM CHANNEL WITH SELECTED MATERIAL TYPE C. BACKFILL MATERIAL IS SUBSIDIARY TO THE CULVERT INSTALLATION.
7. PIPE SHALL BE 10 GAGE OR THICKER WITH 6" BY 2" CORRUGATIONS. USE 2:1 BEVELS ON PIPE ENDS.
8. IN LOCATIONS WHERE SILT/ORGANIC LAYER IS ENCOUNTERED, EXCAVATE BEYOND LIMITS SHOWN TO FIRM BOTTOM AND BACKFILL WITH SELECTED MATERIAL TYPE C AS APPROVED BY THE ENGINEER.



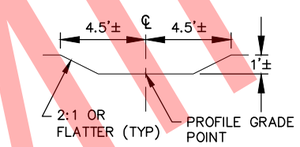
PAY ITEM 690(13) ANADROMOUS WATERWAY BANK RESTORATION		
DESCRIPTION	PAY UNIT	QUANTITY
COIR LOG	LF	267
VEGETATIVE MAT	SY	208
WILLOW CUTTINGS LAYER	LF	267
WILLOW STAKES	SY	208
TOPSOIL	SY	89

ANADROMOUS WATERWAY NOTES

1. ANADROMOUS WATERWAY BANK RESTORATION INCLUDES CONSTRUCTION OF VEGETATIVE MAT, WILLOW STAKES, WILLOW CUTTINGS LAYER WITH TOPSOIL, AND COIR LOG. SEE SPECIFICATION FOR ADDITIONAL DETAILS. DITCH LINING AND FILTER BLANKET PAID FOR SEPARATELY.
2. SHAPE LOW-FLOW CHANNEL IN DITCH LINING AS DIRECTED BY THE ENGINEER. AFTER PLACEMENT OF DITCH LINING, FILL VOIDS IN DITCH LINING WITHIN ORDINARY HIGH WATER WIDTH WITH A UNIFORM MIXTURE OF SAND, GRAVEL AND COBBLES. BLEND MATERIAL PRIOR TO PLACING IN DITCH LINING. MATERIAL IS SUBSIDIARY TO DITCH LINING.
3. AT THE LOCATION OF THE UPSTREAM TIE-IN POINT, THE ANADROMOUS WATERWAY DESIGN IS BASED ON LIMITED TOPOGRAPHIC INFORMATION. ADJUST WATERWAY AS NEEDED AND AS DIRECTED BY THE ENGINEER TO ACCOMMODATE ACTUAL FIELD CONDITIONS.
4. MATCH EXISTING STREAMBED SLOPE THROUGH TRANSITION. TAPER AND/OR MODIFY CONSTRUCTED ANADROMOUS WATERWAY AS NEEDED TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING BANKS.

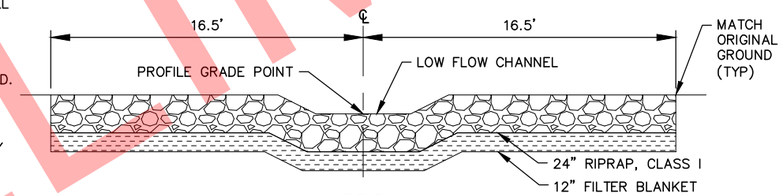
ANADROMOUS WATERWAY

NTS



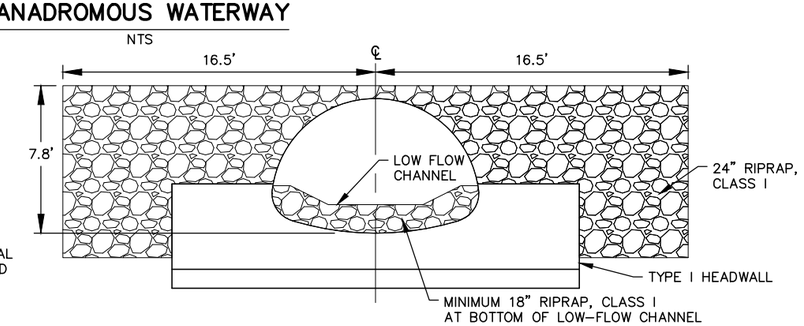
LOW FLOW CHANNEL

NTS



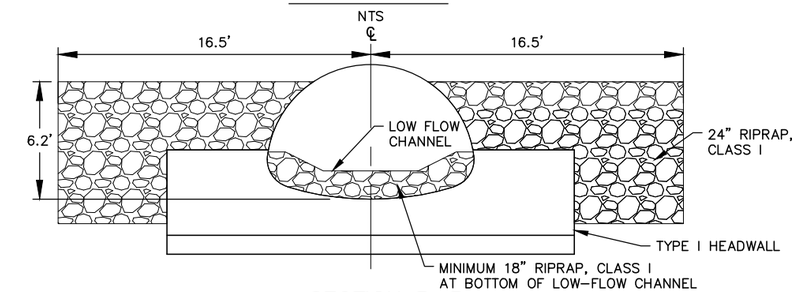
APRON

NTS



SECTION A-A

NTS



SECTION B-B

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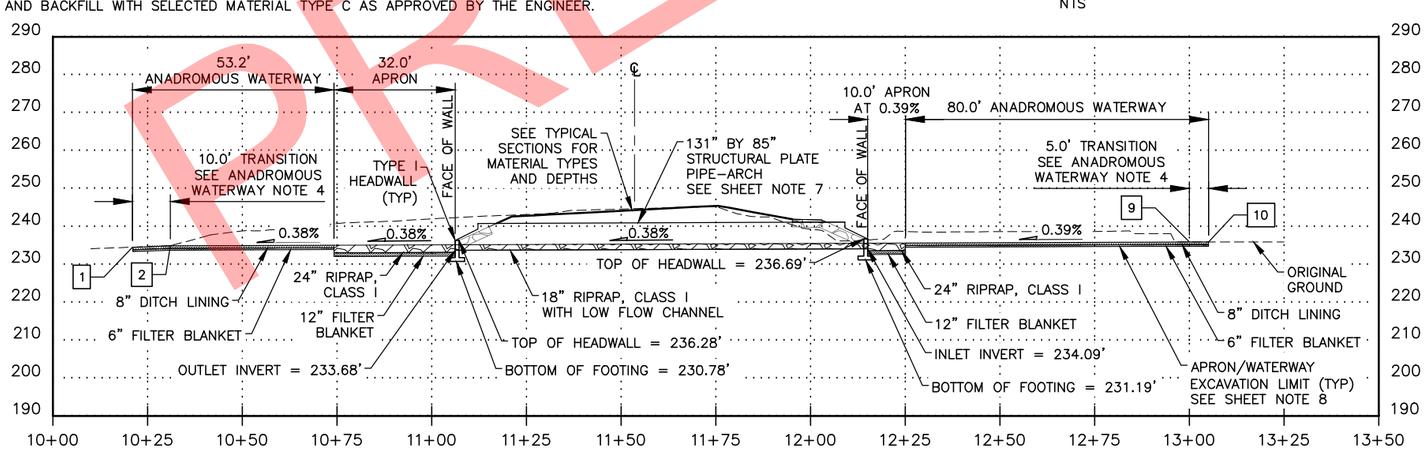


PROFILE STA: PARKS 1197+08

STATE OF ALASKA 49TH AARON J. HAVEL CE-107250 REGISTERED PROFESSIONAL ENGINEER

AWR ENGINEERING, LLC
PHYSICAL: 1351 W 70TH AVE
MAILING: PO BOX 190684
ANCHORAGE, AK 99519
(907) 441-2973
AECL1470

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PARKS HWY: MP 90-99 REHABILITATION

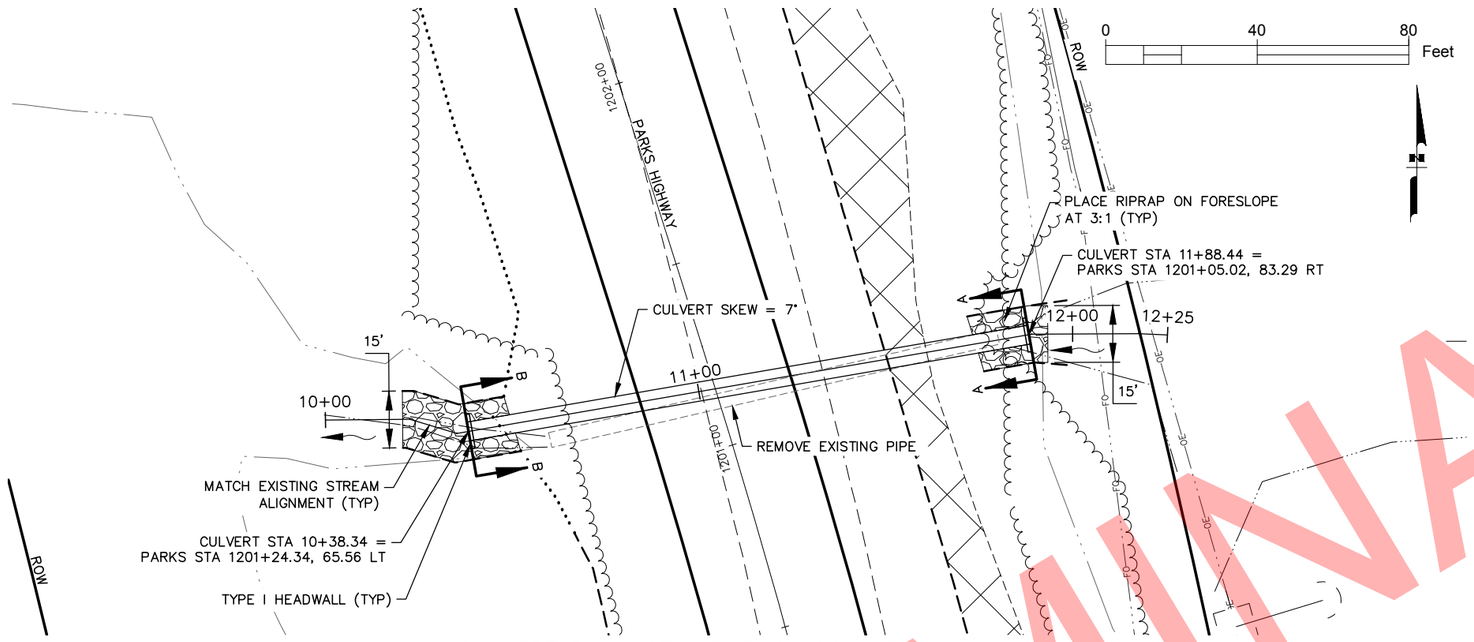
CULVERT DETAILS

PRELIMINARY

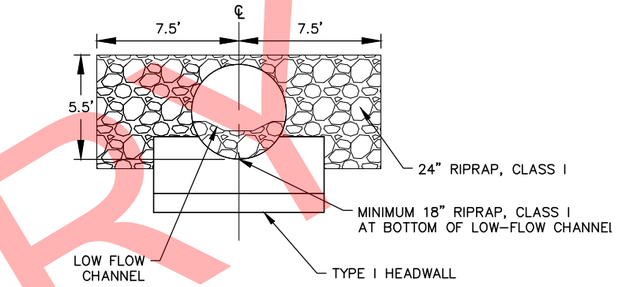
FILE ID:\DROPBOX (AWR ENGINEERING, LLC)\JOBS\1204 HDL\03 - PARKS HIGHWAY 90-99\CAD\FINAL JULY 2017\SHEETSETUP_E5_E7_E8.DWG | DATE/TIME 7/19/2017 1:22 PM | LAYOUT E5 | DESIGNED AH | CHECKED JD | DRAFTED JD & AH

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	E6	E8

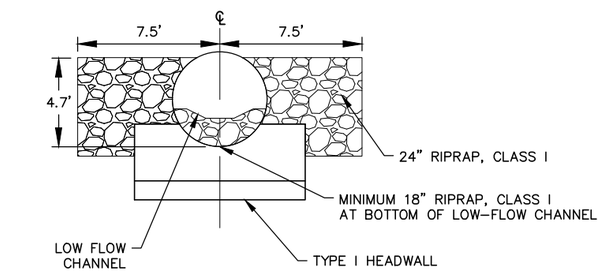


CULVERT PLAN STA: PARKS 1201+15



SECTION A–A

NTS

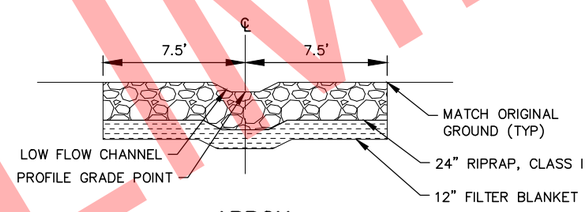


SECTION B–B

NTS

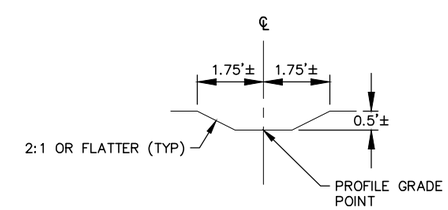
SHEET NOTES

1. SHAPE LOW–FLOW CHANNEL IN RIPRAP AS DIRECTED BY THE ENGINEER. AFTER PLACEMENT OF RIPRAP, FILL VOIDS IN RIPRAP WITHIN STREAM CHANNEL WITH A UNIFORM MIXTURE OF SAND, GRAVEL AND COBBLES. BLEND MATERIAL PRIOR TO PLACING IN RIPRAP. MATERIAL IS SUBSIDIARY TO RIPRAP.
2. RIPRAP, DITCH LINING, AND FILTER BLANKET THICKNESS IS MEASURED PERPENDICULAR TO FINISHED GROUND.
3. ALIGN HEADWALLS PERPENDICULAR TO CULVERT.
4. TIE IN RIPRAP TO FORESLOPE AS SHOWN ON SHEET E8.
5. PIPE SHALL BE 10 GAGE OR THICKER WITH 6" BY 2" CORRUGATIONS. USE 3:1 BEVELS ON PIPE ENDS.
6. IN LOCATIONS WHERE SILT/ORGANIC LAYER IS ENCOUNTERED, EXCAVATE BEYOND LIMITS SHOWN TO FIRM BOTTOM AND BACKFILL WITH SELECTED MATERIAL TYPE C AS APPROVED BY THE ENGINEER.



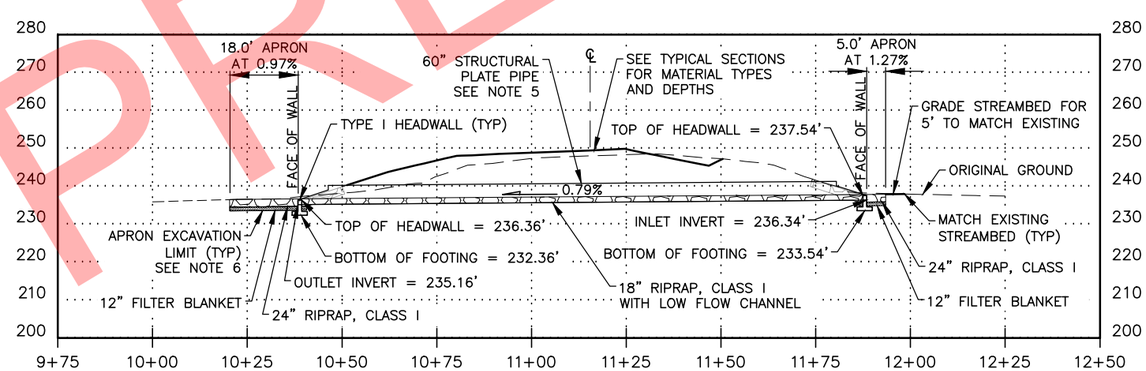
APRON

NTS



LOW FLOW CHANNEL

NTS



CULVERT PROFILE STA: PARKS 1201+15

PRELIMINARY

STATE OF ALASKA
AARON J. HAVEL
CE–107250
REGISTERED PROFESSIONAL ENGINEER

AWR ENGINEERING, LLC
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

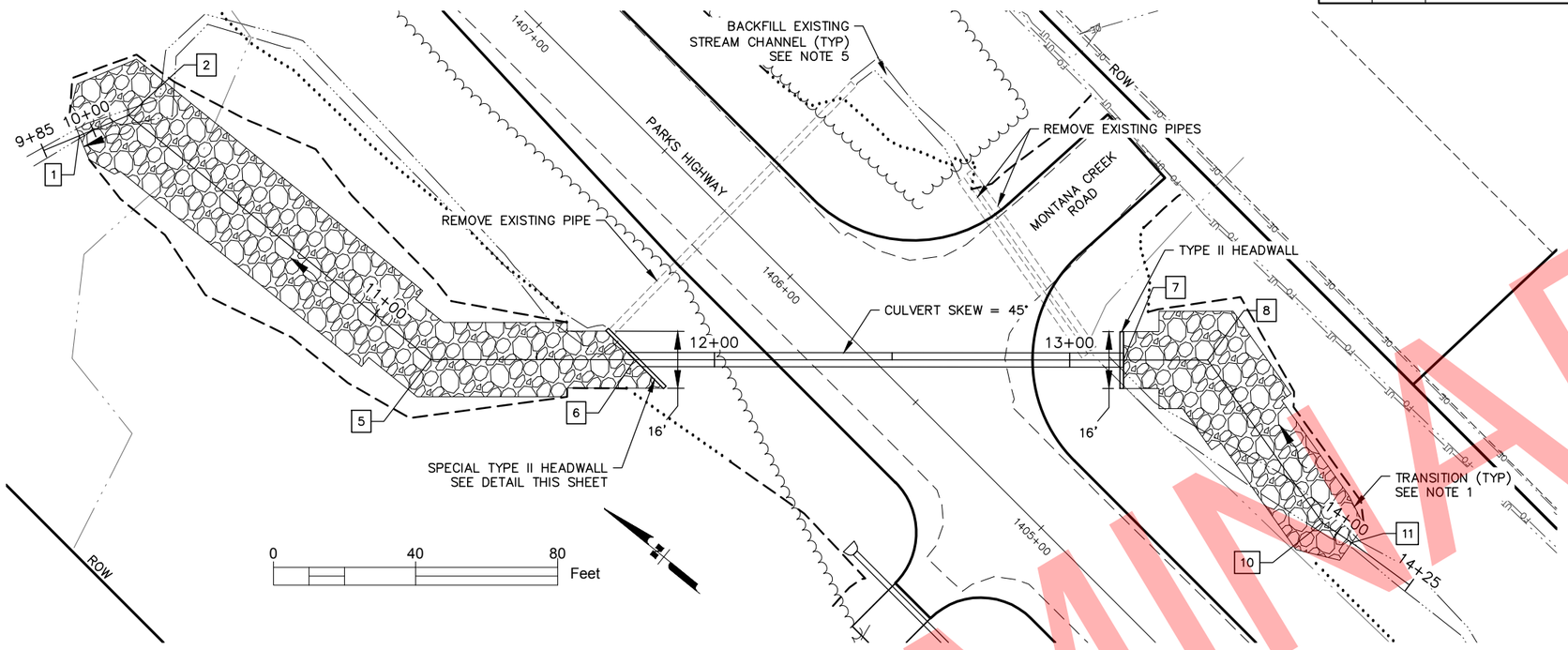
PARKS HWY: MP 90–99 REHABILITATION

CULVERT DETAILS

FILE D:\DROPBOX (AWR ENGINEERING, LLC)\JOBS\1204 HDL\03 – PARKS HIGHWAY 90–99\CAD\FINAL JULY 2017\SHEETSETUP_E6.DWG
DATE/TIME 7/19/2017 1:36 PM | LAYOUT E6 | DESIGNED AH | CHECKED JD | DRAFTED JD & AH

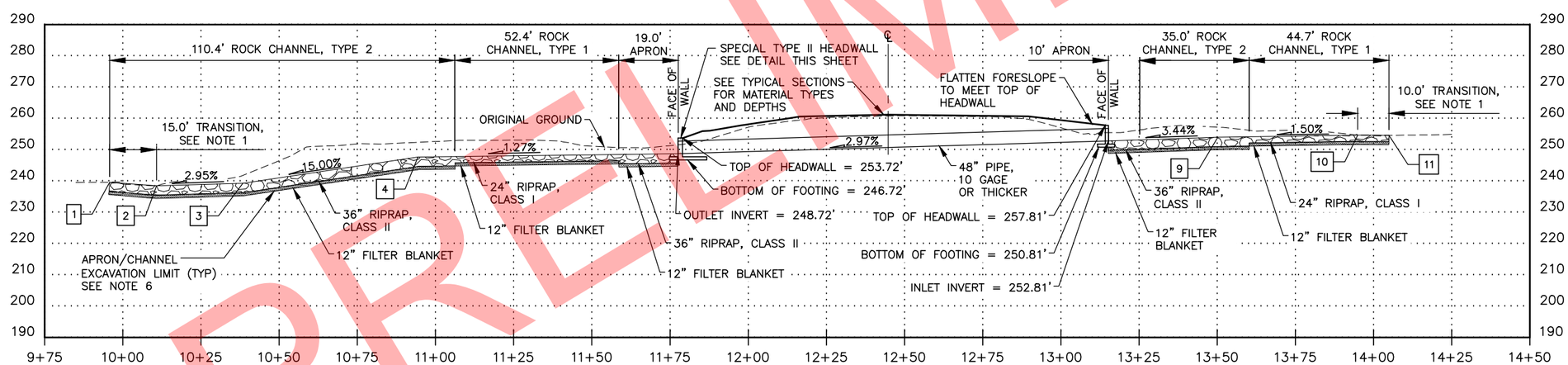
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	E7	E8

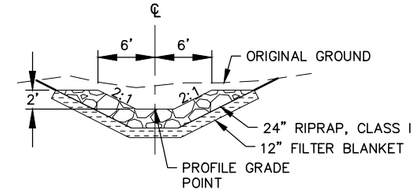


CULVERT PLAN STA: PARKS 1405+67

LAYOUT			
POINT	CULVERT STATION	PARKS STATION & OFFSET	REMARKS
1	9+95.81	1407+69.38, 113.57 LT	ME
2	10+10.81	1407+63.66, 99.70 LT	PI/VPI
3	10+38.36	1407+36.26, 96.79 LT	VPI
4	10+94.41	1406+80.52, 90.85 LT	VPI
5	11+20.09	1406+54.99, 88.13 LT	PI
6	11+77.58	1406+14.34, 47.48 LT	OUTLET/VPI
7	13+15.17	1405+17.05, 49.81 RT	INLET/VPI
8	13+38.91	1405+00.26, 66.60 RT	PI
9	13+50.17	1404+89.16, 64.68 RT	VPI
10	13+94.91	1404+45.08, 57.07 RT	PI/VPI
11	14+04.91	1404+35.26, 58.94 RT	ME

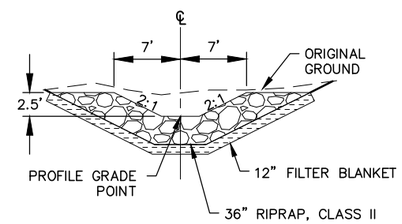


PROFILE STA: PARKS 1405+67



ROCK CHANNEL, TYPE 1

NTS

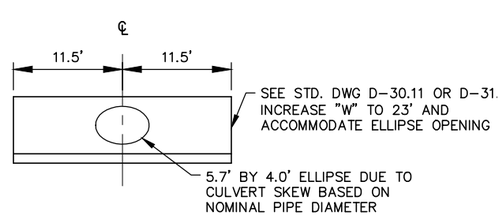


ROCK CHANNEL, TYPE 2

NTS

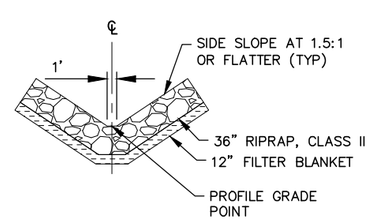
SHEET NOTES

1. TRANSITION NEW ROCK CHANNEL TO MATCH EXISTING STREAM CHANNEL GEOMETRY OVER SPECIFIED DISTANCE OR AS DIRECTED BY THE ENGINEER. MATCH EXISTING STREAMBED SLOPE THROUGH TRANSITION.
2. RIPRAP AND FILTER BLANKET THICKNESS IS MEASURED PERPENDICULAR TO FINISHED GROUND.
3. ALIGN INLET HEADWALL PERPENDICULAR TO CULVERT. ALIGN OUTLET HEADWALL PARALLEL TO ROAD CENTERLINE.
4. AFTER PLACEMENT OF RIPRAP, FILL VOIDS IN RIPRAP WITHIN ROCK CHANNELS WITH A UNIFORM MIXTURE OF SAND, GRAVEL AND COBBLES. BLEND MATERIAL PRIOR TO PLACING IN RIPRAP. MATERIAL IS SUBSIDIARY TO RIPRAP.
5. BACKFILL EXISTING STREAM CHANNEL WITH SELECTED MATERIAL TYPE C. BACKFILL MATERIAL IS SUBSIDIARY TO THE CULVERT INSTALLATION.
6. IN LOCATIONS WHERE SILT/ORGANIC LAYER IS ENCOUNTERED, EXCAVATE BEYOND LIMITS SHOWN TO FIRM BOTTOM AND BACKFILL WITH SELECTED MATERIAL TYPE C AS APPROVED BY THE ENGINEER.



SPECIAL HEADWALL, TYPE II

NTS



APRON

NTS

STATE OF ALASKA 49TH
AARON J. HAVEL CE-107250
REGISTERED PROFESSIONAL ENGINEER

AWR ENGINEERING, LLC
PHYSICAL: 1351 W 70TH AVE
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ANCHORAGE, AK 99519
(907) 441-2973
AECL1470

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PARKS HWY: MP 90-99 REHABILITATION

CULVERT DETAILS

PRELIMINARY

FILE D:\DROPBOX (AWR ENGINEERING, LLC)\JOBS\1204 HDL\03 - PARKS HIGHWAY 90-99\CAD\FINAL JULY 2017\SHEETSETUP_E5_E7_E8.DWG | DATE/TIME 7/19/2017 1:23 PM | LAYOUT E7 | DESIGNED AH | CHECKED JD | DRAFTED JD & AH

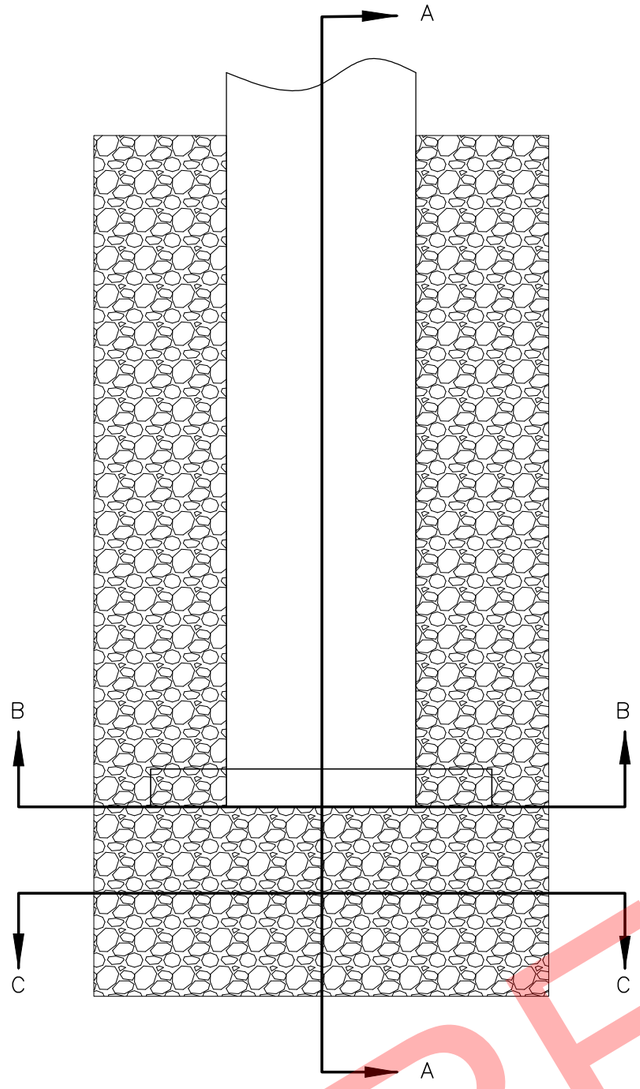
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	E8	E8

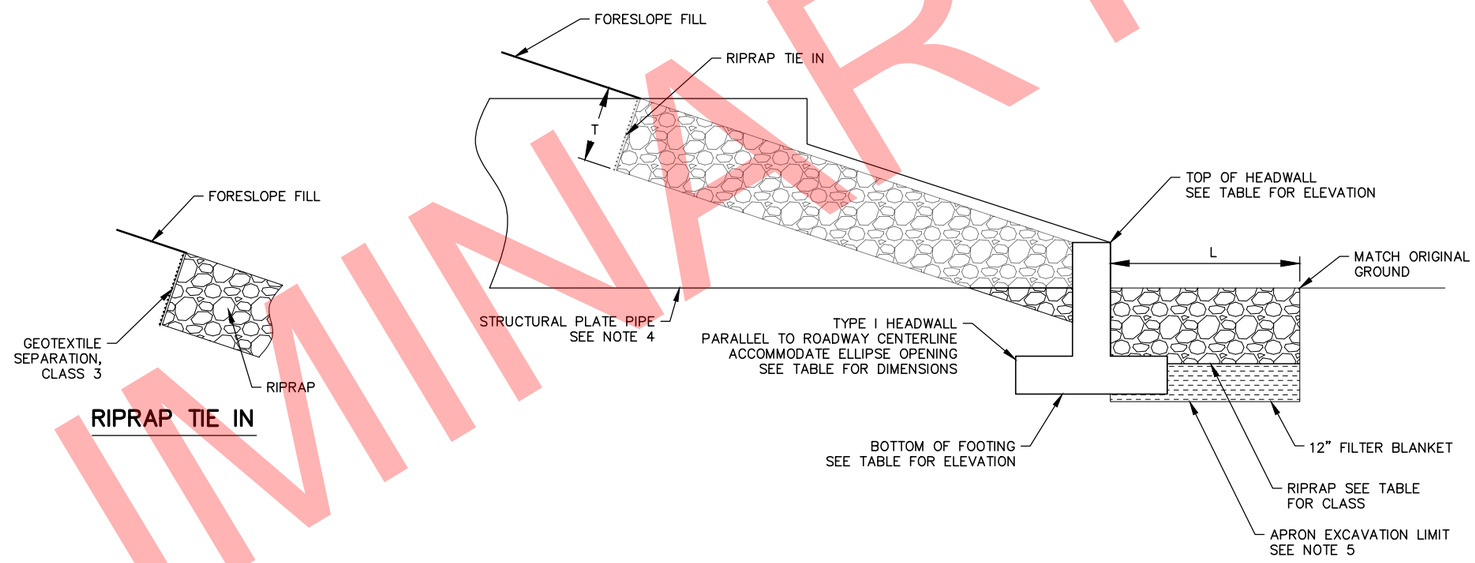
HEADWALL AND ENERGY DISSIPATOR DIMENSIONS

CULVERT AT PARKS STA	DIAMETER (IN)	SKEW	HEADWALL OPENING*		W (FT)	T (IN)	RIPRAP CLASS	INLET					OUTLET				
			WIDTH (FT)	DEPTH (FT)				L (FT)	H (FT)	BOTTOM OF FOOTING ELEV (FT)	TOP OF HEADWALL ELEV (FT)	BEVEL	L (FT)	H (FT)	BOTTOM OF FOOTING ELEV (FT)	TOP OF HEADWALL ELEV (FT)	BEVEL
1083+92	66	24 RT	5.2	1.4	16.5	36	CLASS II	10	5.9	221.40	225.90	3:1	36	2.9	214.32	218.82	3:1
1243+99	66	2 RT	4.8	1.4	16.5	24	CLASS I	5	6.3	239.11	243.61	3:1	25	5.3	238.96	243.46	3:1
1288+22	78	5 LT	5.1	1.2	19.5	36	CLASS II	10	7.5	273.53	278.03	2:1	43	2.8	271.89	276.39	3:1

* DIMENSIONS BASED ON NOMINAL PIPE DIAMETER, CULVERT SKEW, AND STANDARD DETAIL D-07.00.

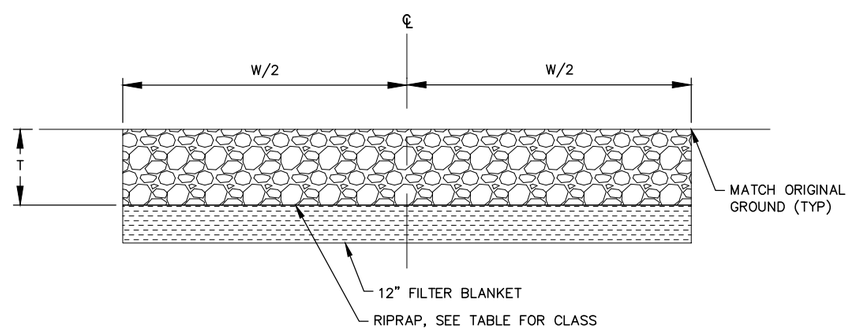


PLAN VIEW

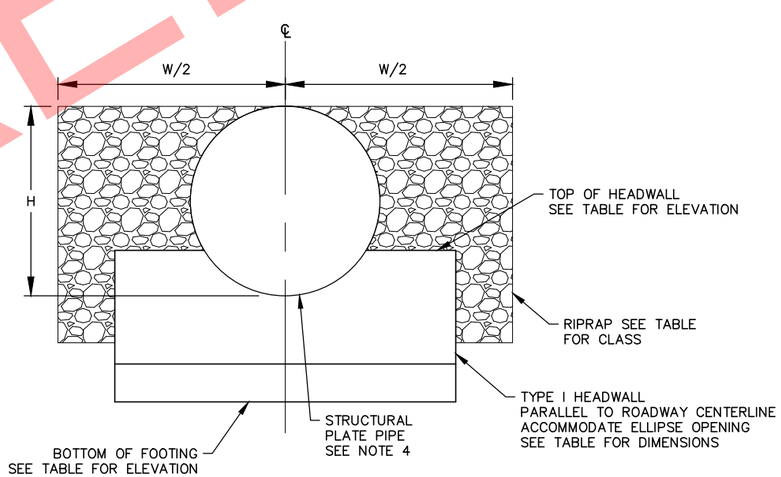


SECTION A–A

RIPRAP TIE IN



SECTION C–C



SECTION B–B

SHEET NOTES

1. CULVERTS AND APRONS EXTEND INTO AREAS WHERE LITTLE OR NO SURVEY TOPOGRAPHY WAS AVAILABLE FOR DESIGN. ADJUST APRONS AS NEEDED AND AS DIRECTED BY THE ENGINEER TO ACCOMMODATE FIELD CONDITIONS. ALIGN ENERGY DISSIPATER WITH NATURAL DRAINAGE PATTERN AND PROVIDE POSITIVE DRAINAGE WHEN POSSIBLE.
2. RIPRAP AND FILTER BLANKET THICKNESS IS MEASURED PERPENDICULAR TO FINISHED GROUND.
3. GEOTEXTILE SEPARATION, CLASS 3 IS SUBSIDIARY TO RIPRAP.
4. PIPE SHALL BE 10 GAGE OR THICKER WITH 6" BY 2" CORRUGATIONS. SEE TABLE FOR BEVELS.
5. IN LOCATIONS WHERE SILT/ORGANIC LAYER IS ENCOUNTERED, EXCAVATE BEYOND LIMITS SHOWN TO FIRM BOTTOM AND BACKFILL WITH SELECTED MATERIAL TYPE C AS APPROVED BY THE ENGINEER.

PRELIMINARY

STATE OF ALASKA
49TH
AARON J. HAVEL
CE-107250
REGISTERED PROFESSIONAL ENGINEER

AWR ENGINEERING, LLC
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(907) 441-2973
AECL1470

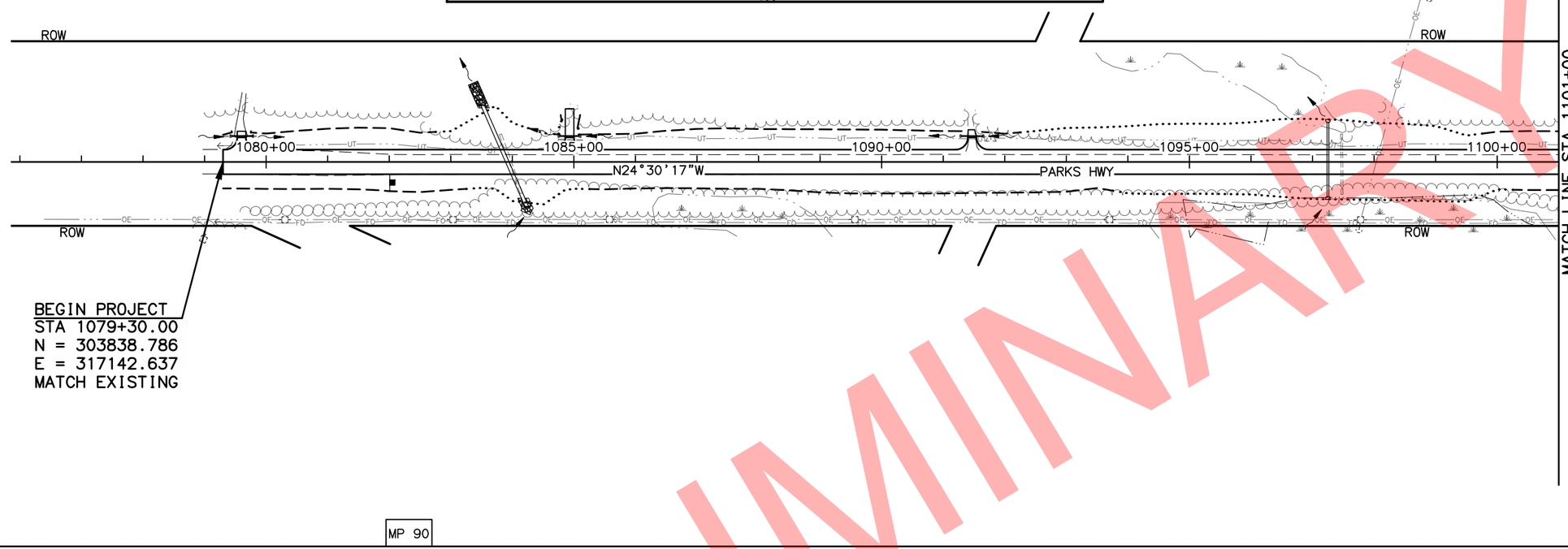
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

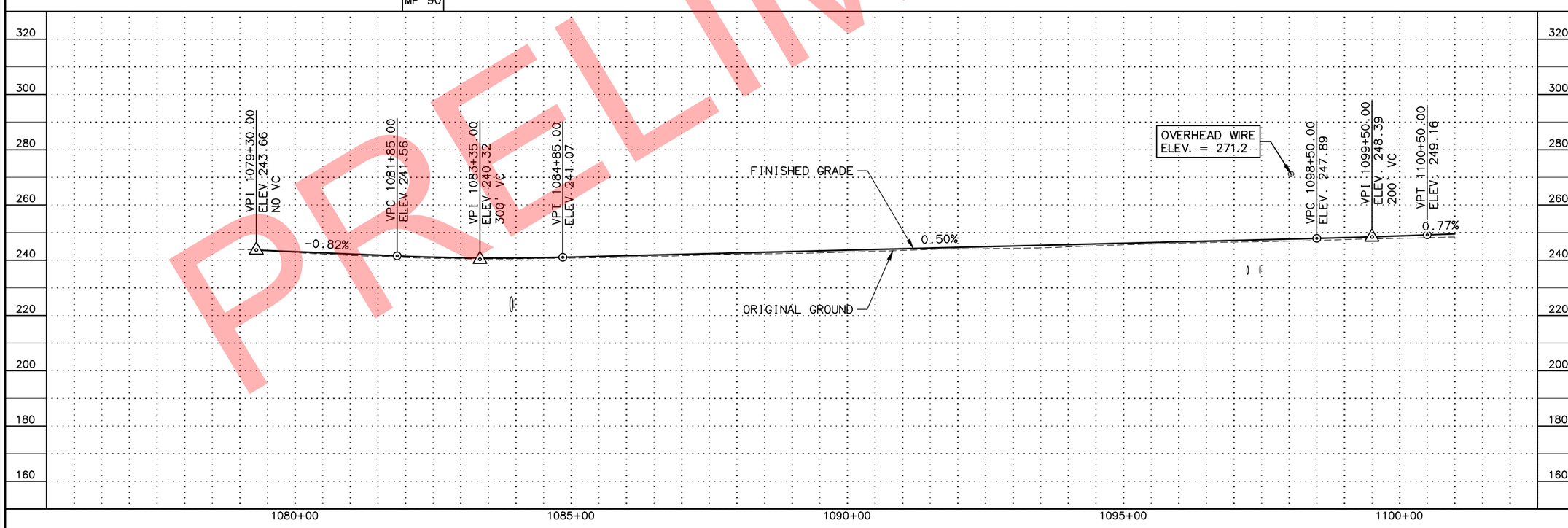
PARKS HWY: MP 90–99
REHABILITATION

CULVERT DETAILS

FILE D:\DROPBOX (AWR ENGINEERING, LLC)\JOBS\1204 HDL\03 - PARKS HIGHWAY 90-99\CAD\FINAL JULY 2017\SHEETSETUP_E5_E7_E8.DWG
DATE/TIME 7/19/2017 1:24 PM | LAYOUT E8 | DESIGNED AH | CHECKED JD | DRAFTED JD & AH

HYDRAULIC AND HYDROLOGIC SUMMARY - 1083+92			
DRAINAGE AREA	1.23 SQUARE MILES		
EXCEEDANCE PROBABILITY	2%	1%	REGULATORY FLOOD
RETURN PERIOD	50 YEAR (Q_{50})	100 YEAR (Q_{100})	N/A
DESIGN DISCHARGE	129 CFS	155 CFS	N/A
DESIGN HIGH WATER ELEVATION	229.5	230.1	N/A
ANTICIPATED ADDITIONAL BACKWATER AT Q_{100} = 0.0 FT			



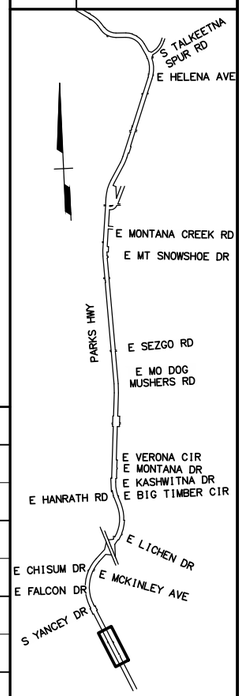


PRELIMINARY

SHEET NO.	TOTAL SHEETS
F1	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION
0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
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(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1079+30 TO 1101+00

DATE/TIME 6/22/2017 10:26 AM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --
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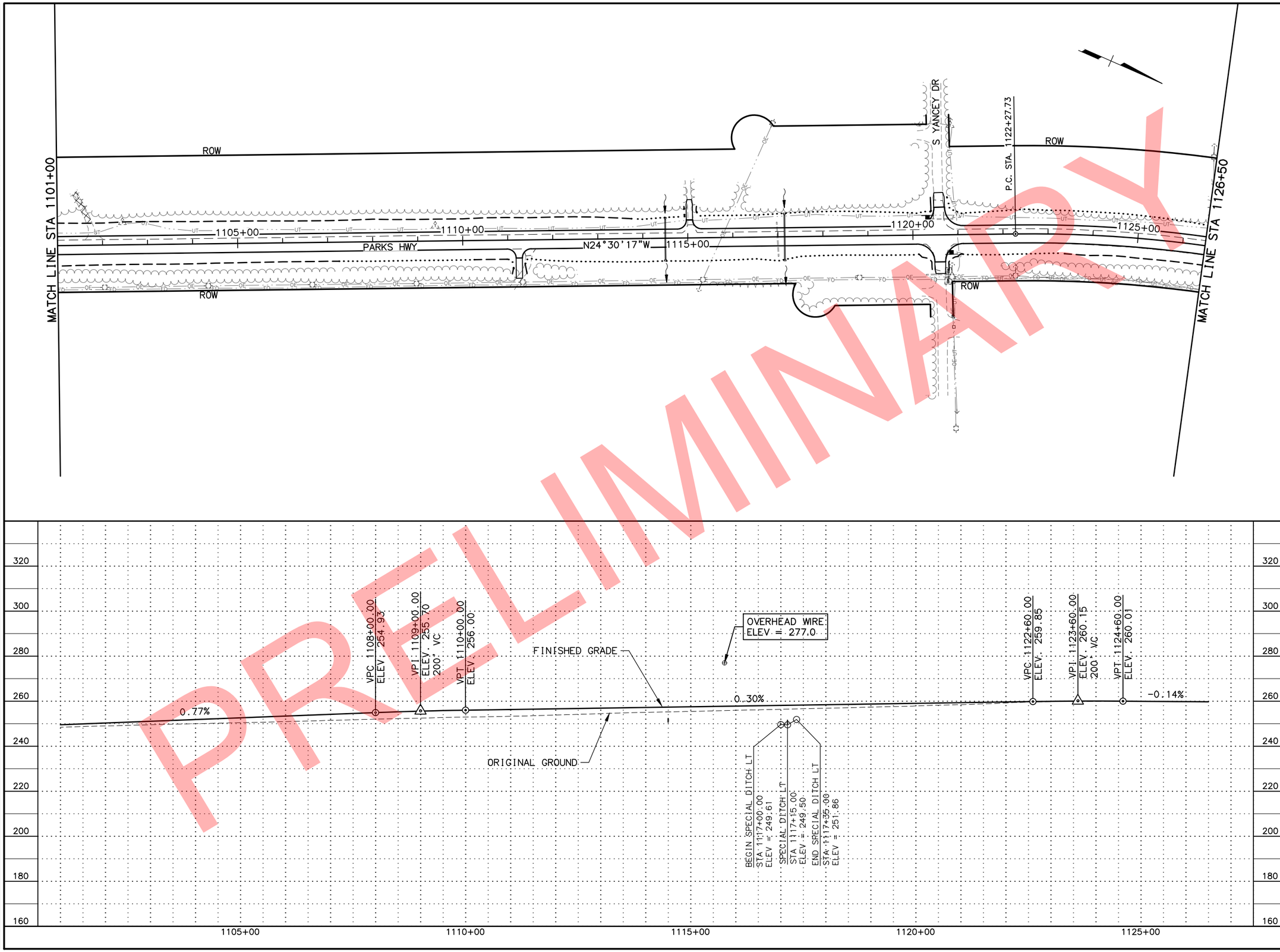
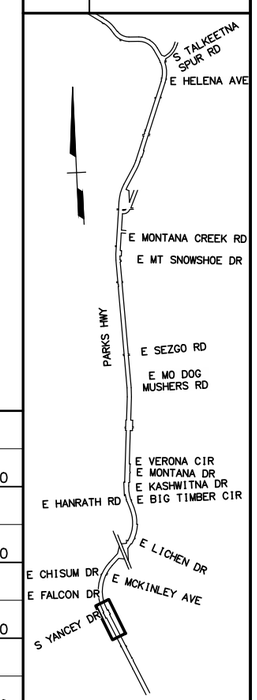


SHEET NO.	TOTAL SHEETS
F2	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION

0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
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AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1101+00 TO 1126+50

DATE/TIME 6/22/2017 10:27 AM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --

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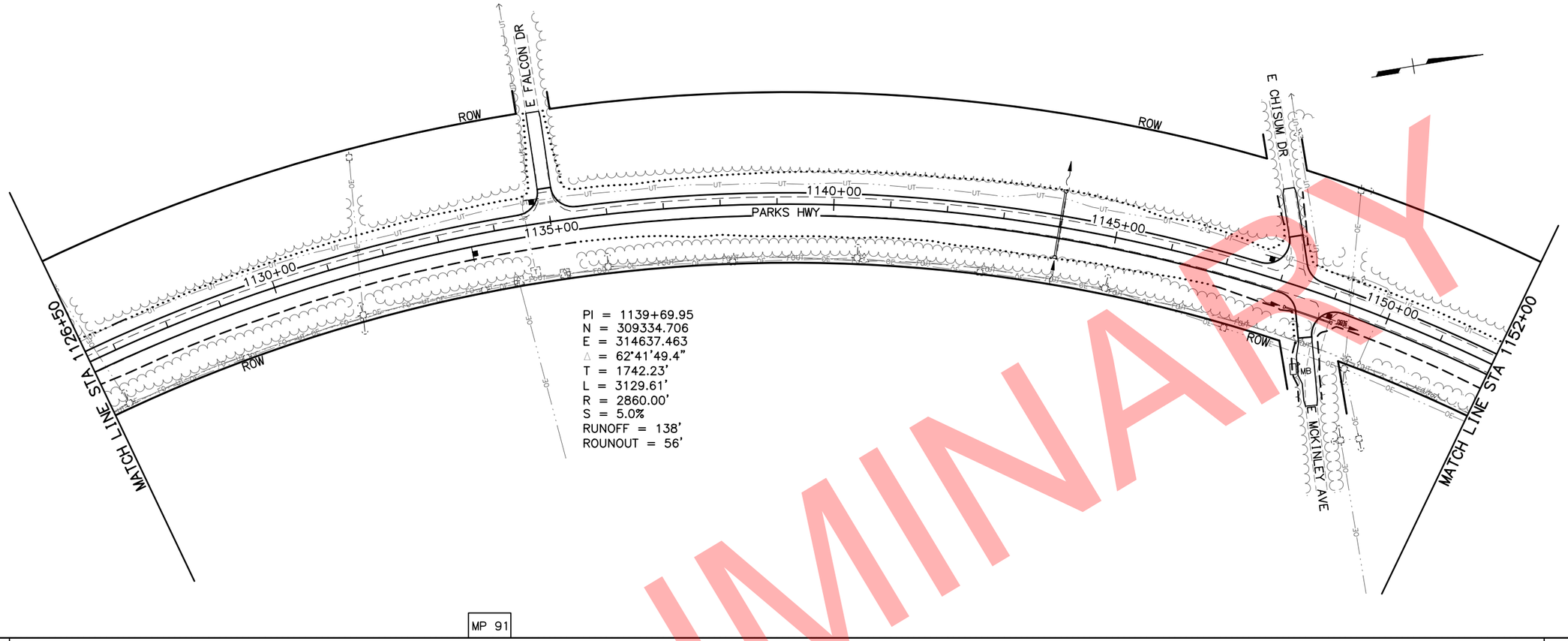
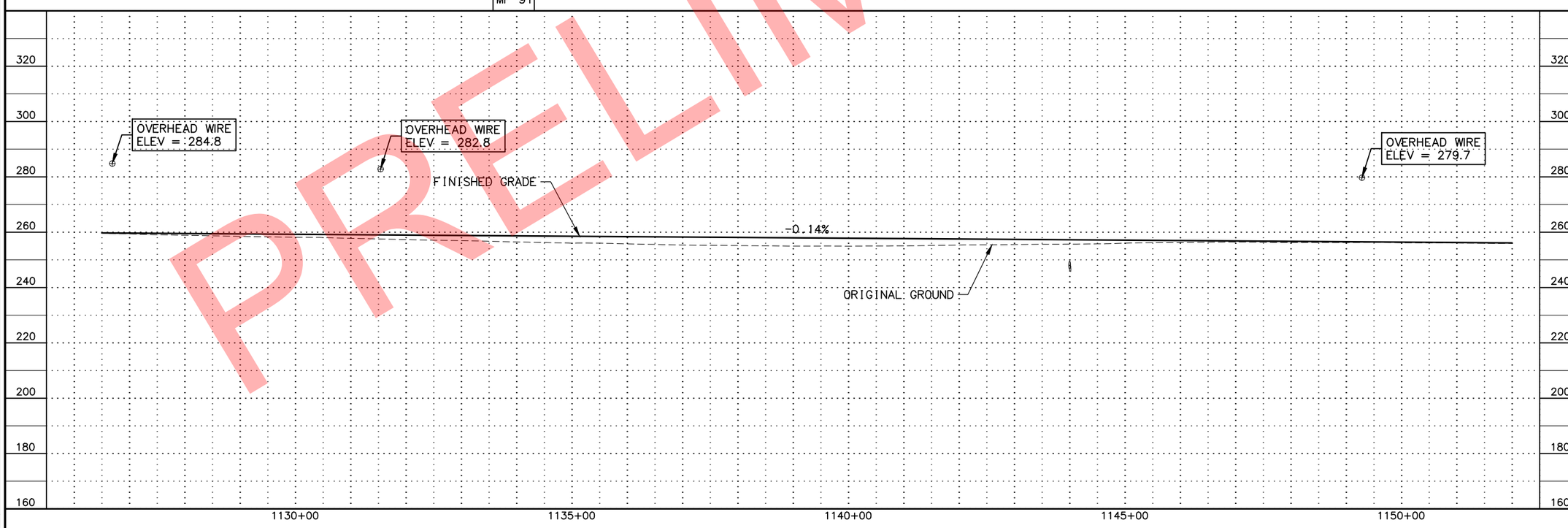
SHEET NO.	TOTAL SHEETS
F3	F28
STATE	YEAR
ALASKA	2017

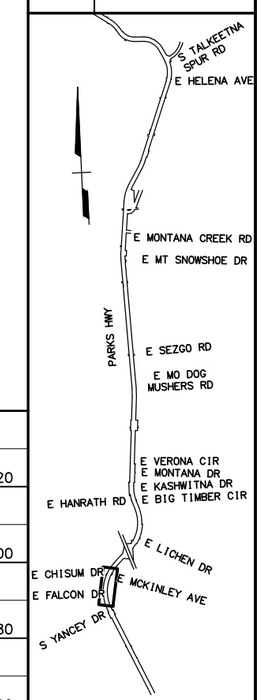
PROJECT DESIGNATION

0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	







STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1126+50 TO 1152+00

PRELIMINARY

DATE/TIME 6/22/2017 10:27 AM | LAYOUT LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --
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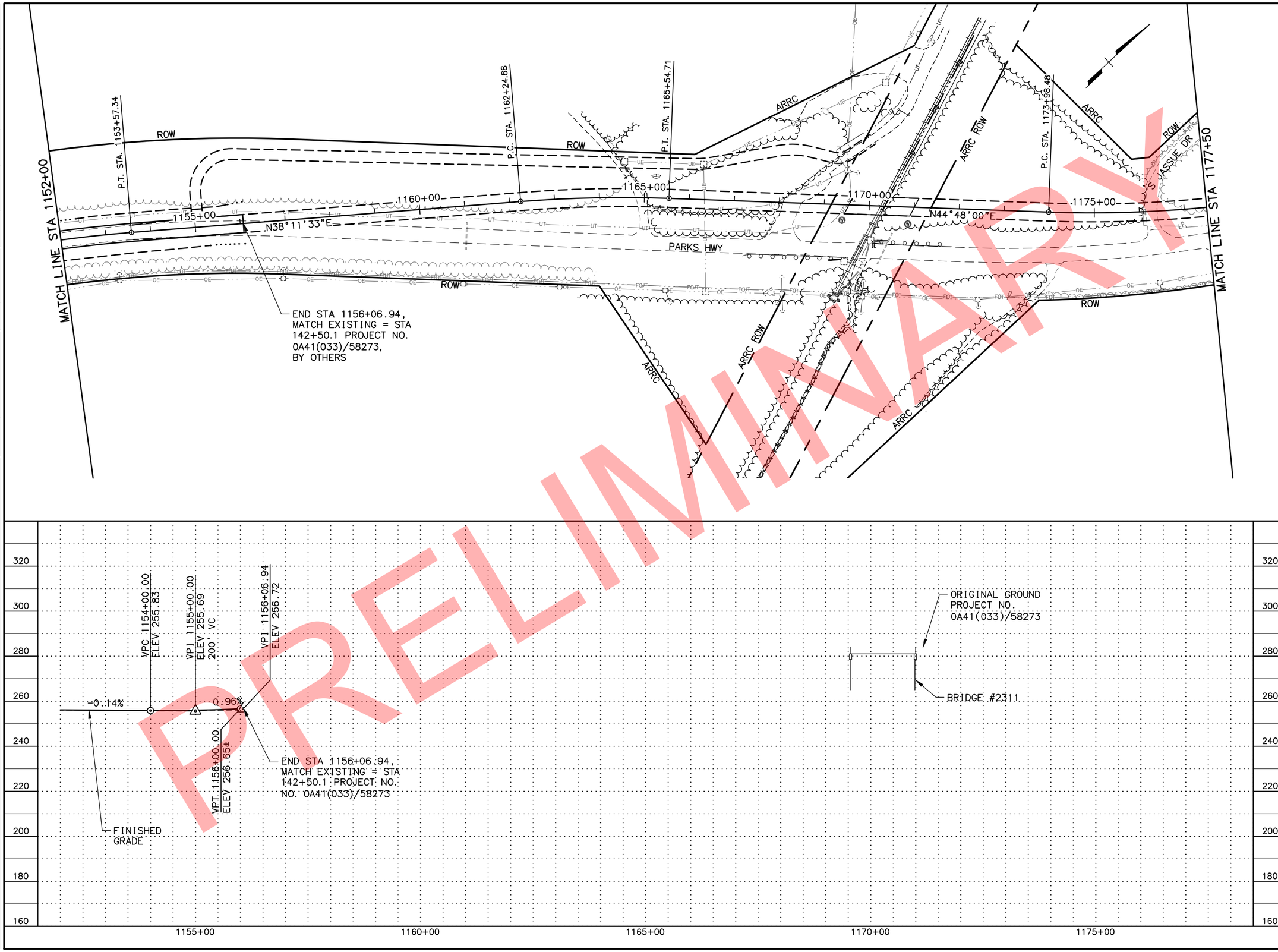
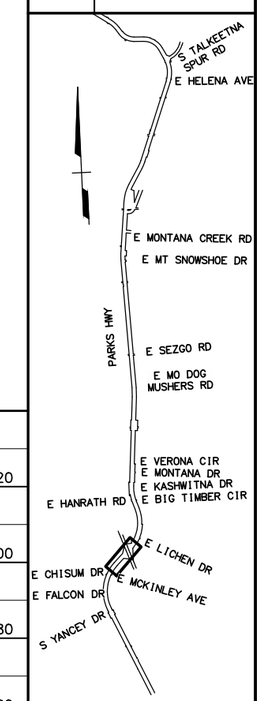


PRELIMINARY

SHEET NO.	TOTAL SHEETS
F4	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION
0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1152+00 TO 1177+50

DATE/TIME 6/22/2017 10:28 AM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --

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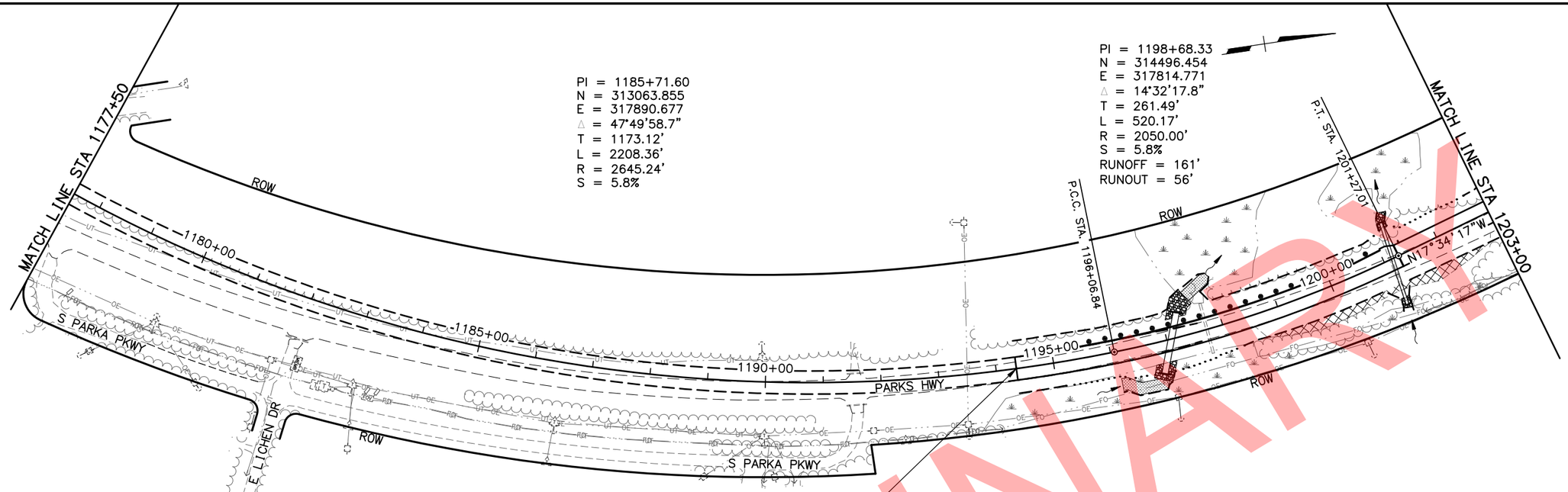
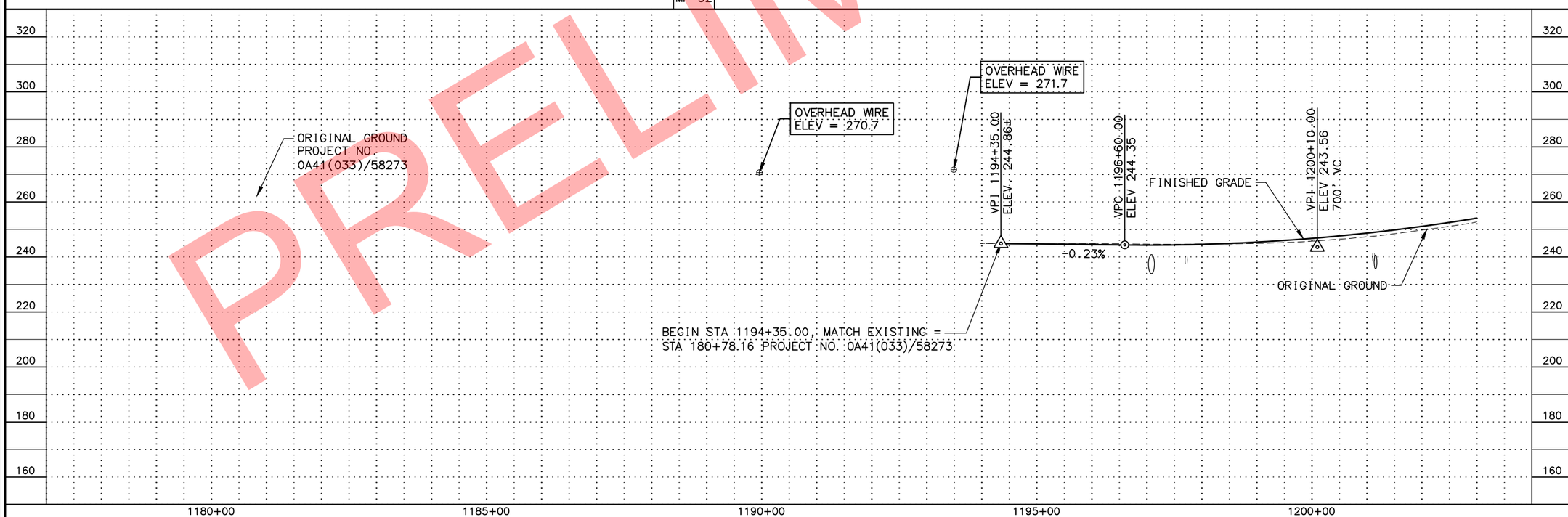


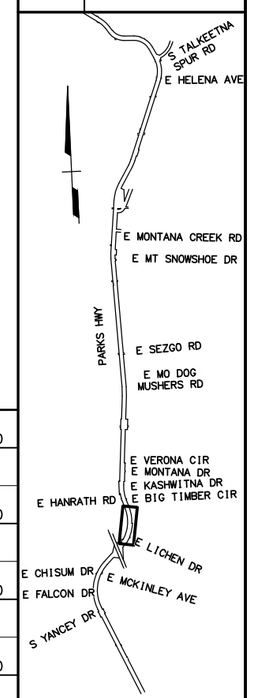
HYDRAULIC AND HYDROLOGIC SUMMARY - 1197+08 AND 1201+15			
DRAINAGE AREA	2.39 SQUARE MILES		
EXCEEDANCE PROBABILITY	2%	1%	REGULATORY FLOOD
RETURN PERIOD	50 YEAR (Q_{50})	100 YEAR (Q_{100})	N/A
DESIGN DISCHARGE	219 CFS	261 CFS	N/A
DESIGN HIGH WATER ELEVATION	240.9	241.5	N/A
ANTICIPATED ADDITIONAL BACKWATER AT Q_{100} = 0.0 FT			



SHEET NO.	TOTAL SHEETS
F5	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION
0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
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AECL861

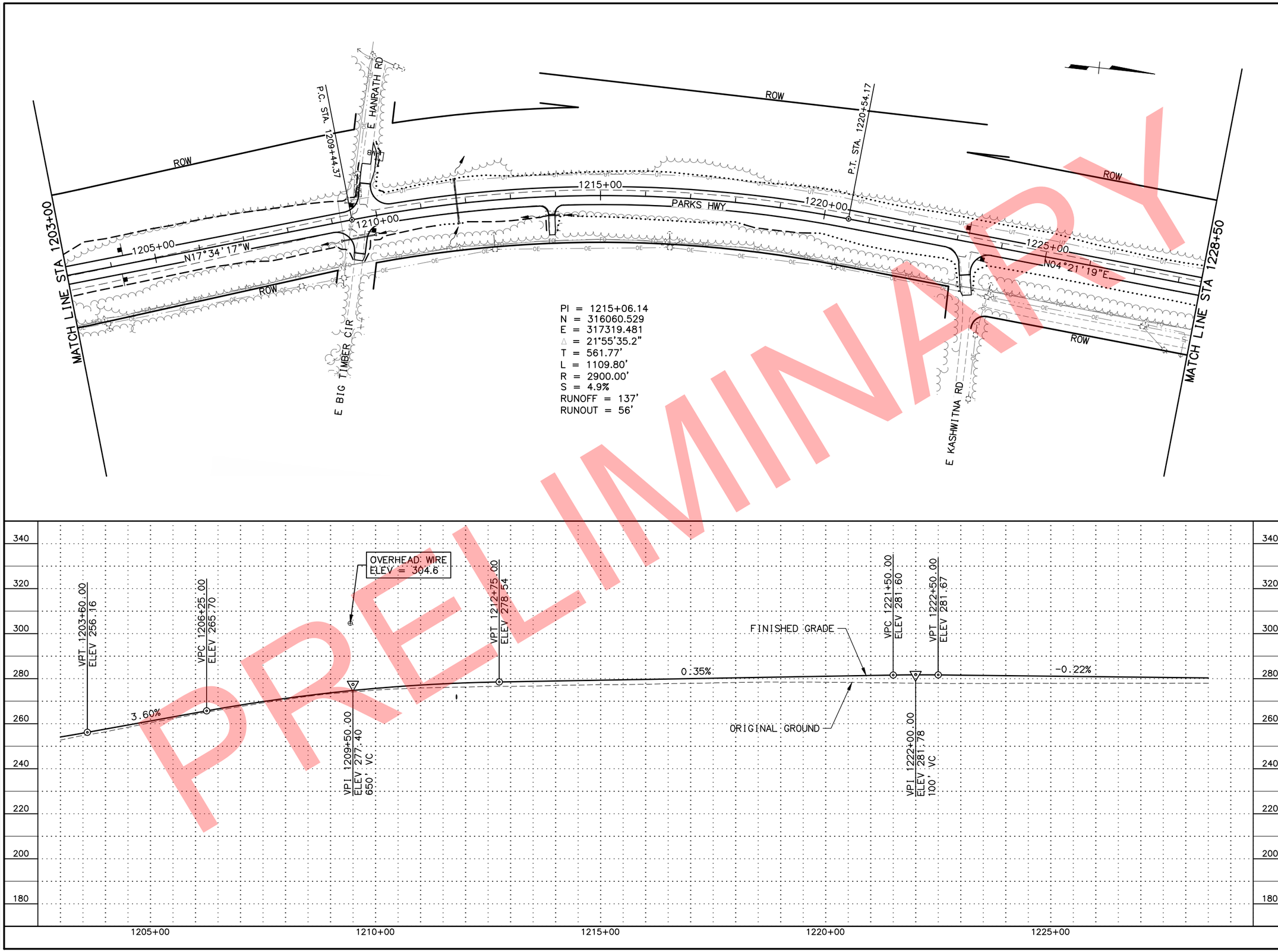
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1177+50 TO 1203+00

PRELIMINARY

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F01-F20.DWG BY bgarnok
DATE/TIME 6/22/2017 10:29 AM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --



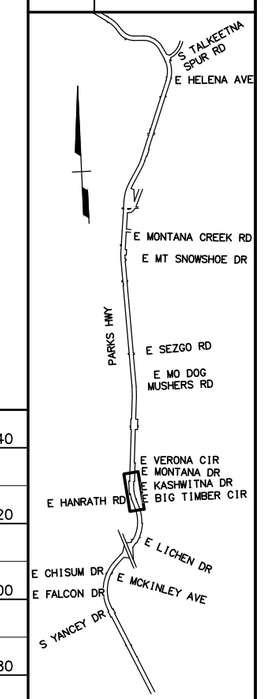
PRELIMINARY

SHEET NO.	TOTAL SHEETS
F6	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION

0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
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AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90–99
REHABILITATION

PLAN & PROFILE
1203+00 TO 1228+50

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F01-F20.DWG BY byarmak
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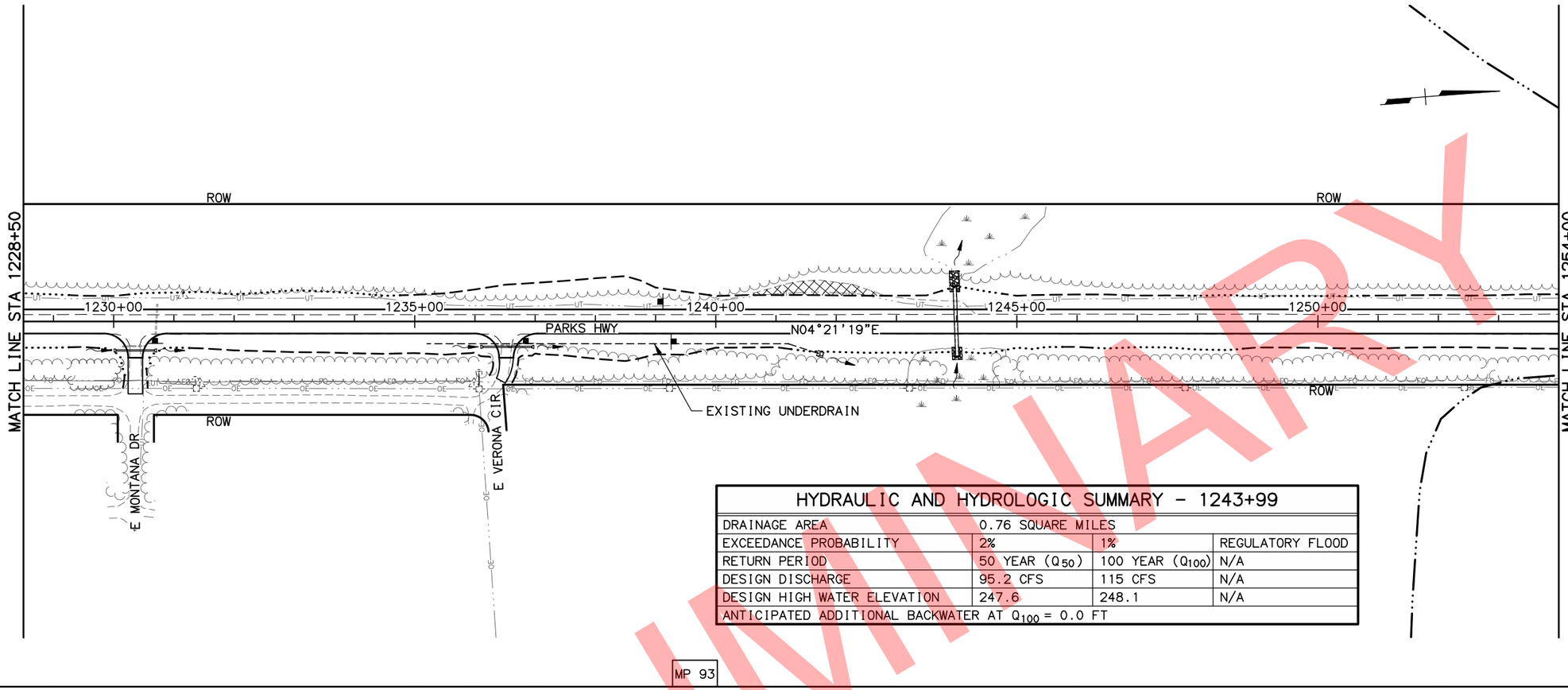
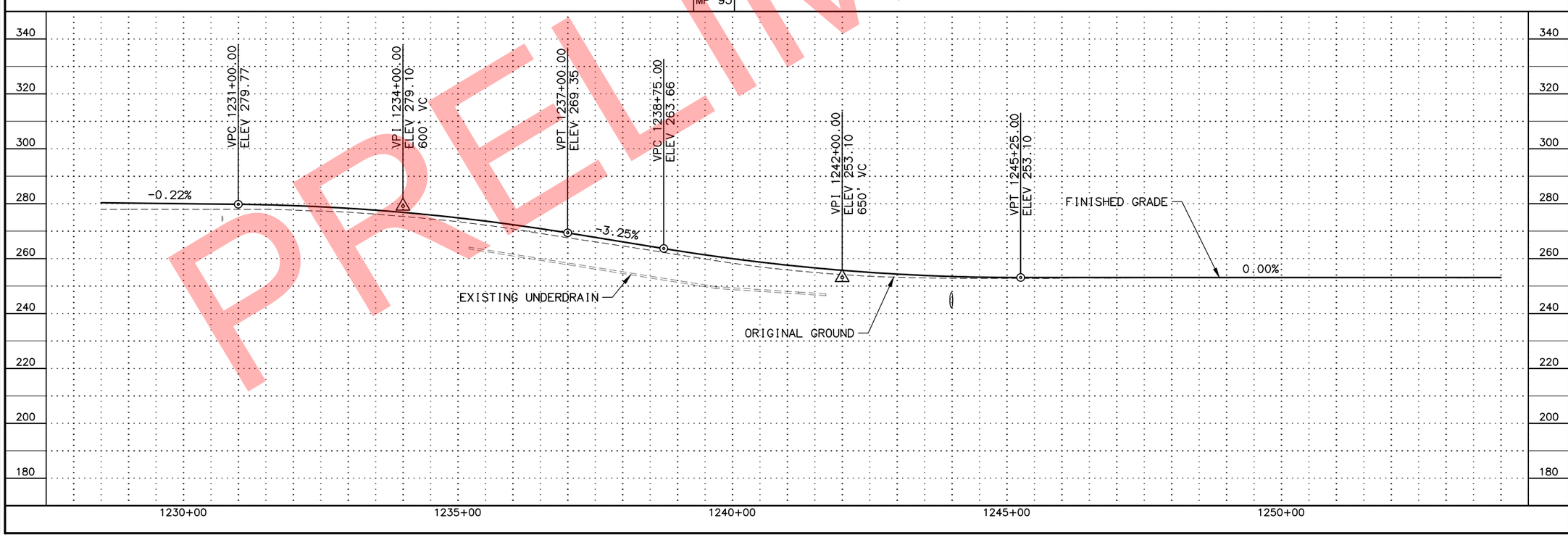


HYDRAULIC AND HYDROLOGIC SUMMARY - 1243+99

DRAINAGE AREA	0.76 SQUARE MILES		
EXCEEDANCE PROBABILITY	2%	1%	REGULATORY FLOOD
RETURN PERIOD	50 YEAR (Q_{50})	100 YEAR (Q_{100})	N/A
DESIGN DISCHARGE	95.2 CFS	115 CFS	N/A
DESIGN HIGH WATER ELEVATION	247.6	248.1	N/A
ANTICIPATED ADDITIONAL BACKWATER AT Q_{100} = 0.0 FT			

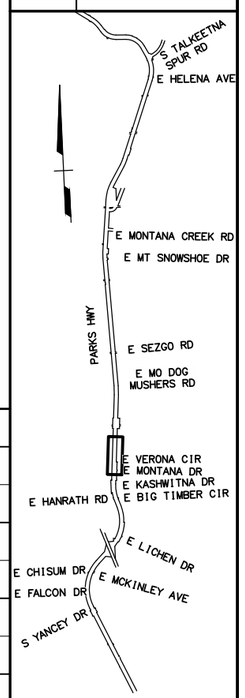


PRELIMINARY

SHEET NO.	TOTAL SHEETS
F7	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION
0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA 49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1228+50 TO 1254+00

DATE/TIME 6/22/2017 10:30 AM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --
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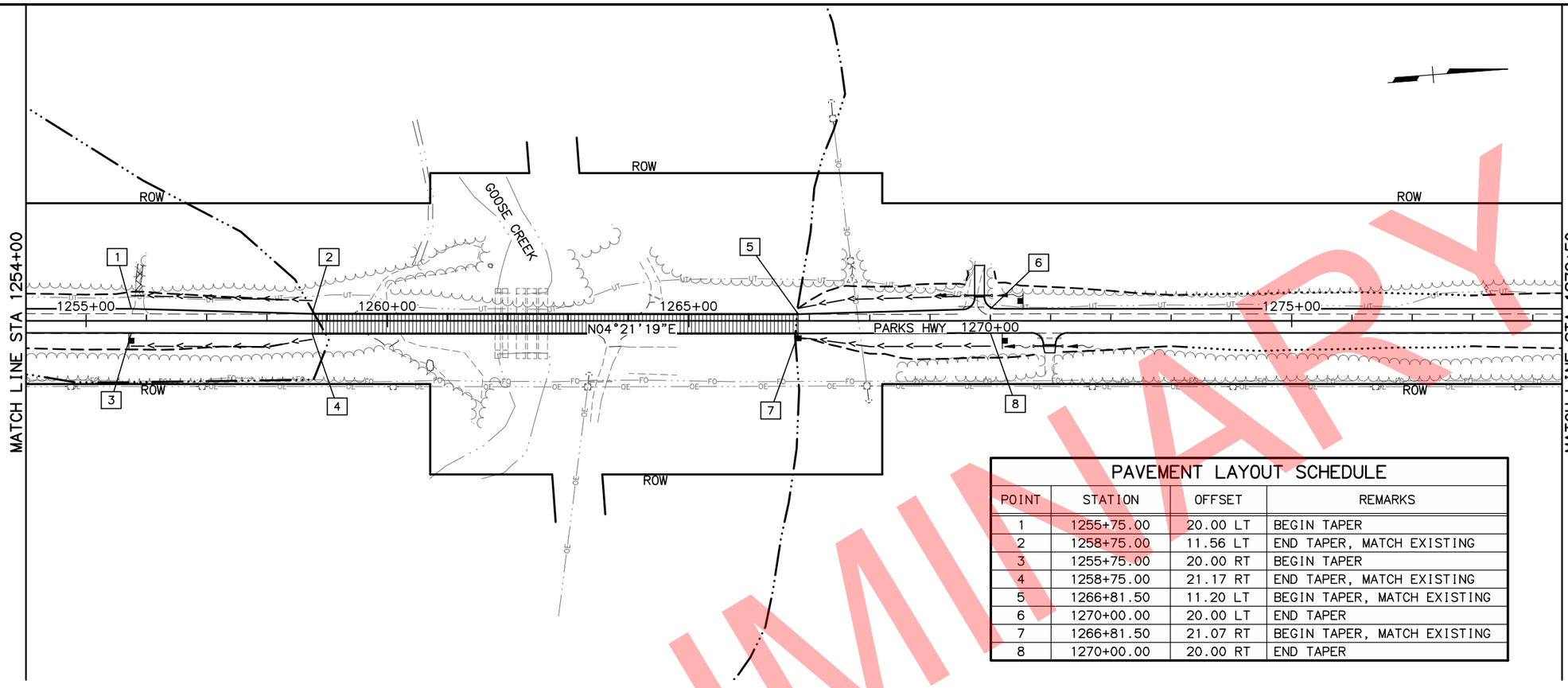
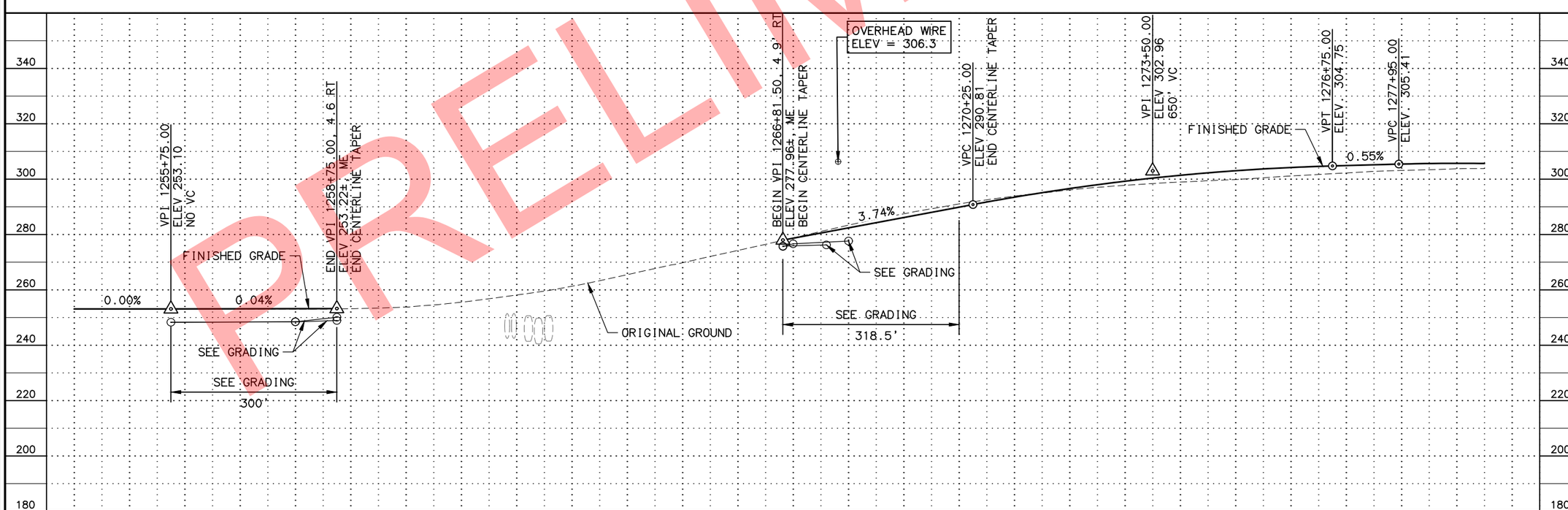


PAVEMENT LAYOUT SCHEDULE

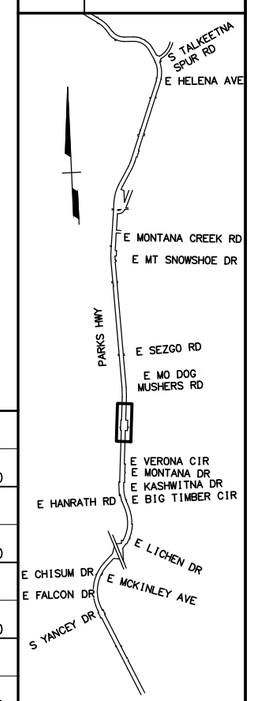
POINT	STATION	OFFSET	REMARKS
1	1255+75.00	20.00 LT	BEGIN TAPER
2	1258+75.00	11.56 LT	END TAPER, MATCH EXISTING
3	1255+75.00	20.00 RT	BEGIN TAPER
4	1258+75.00	21.17 RT	END TAPER, MATCH EXISTING
5	1266+81.50	11.20 LT	BEGIN TAPER, MATCH EXISTING
6	1270+00.00	20.00 LT	END TAPER
7	1266+81.50	21.07 RT	BEGIN TAPER, MATCH EXISTING
8	1270+00.00	20.00 RT	END TAPER



SHEET NO.	TOTAL SHEETS
F8	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION
0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90–99
REHABILITATION

PLAN & PROFILE
1254+00 TO 1279+50

PRELIMINARY

DATE/TIME 6/22/2017 10:31 AM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --

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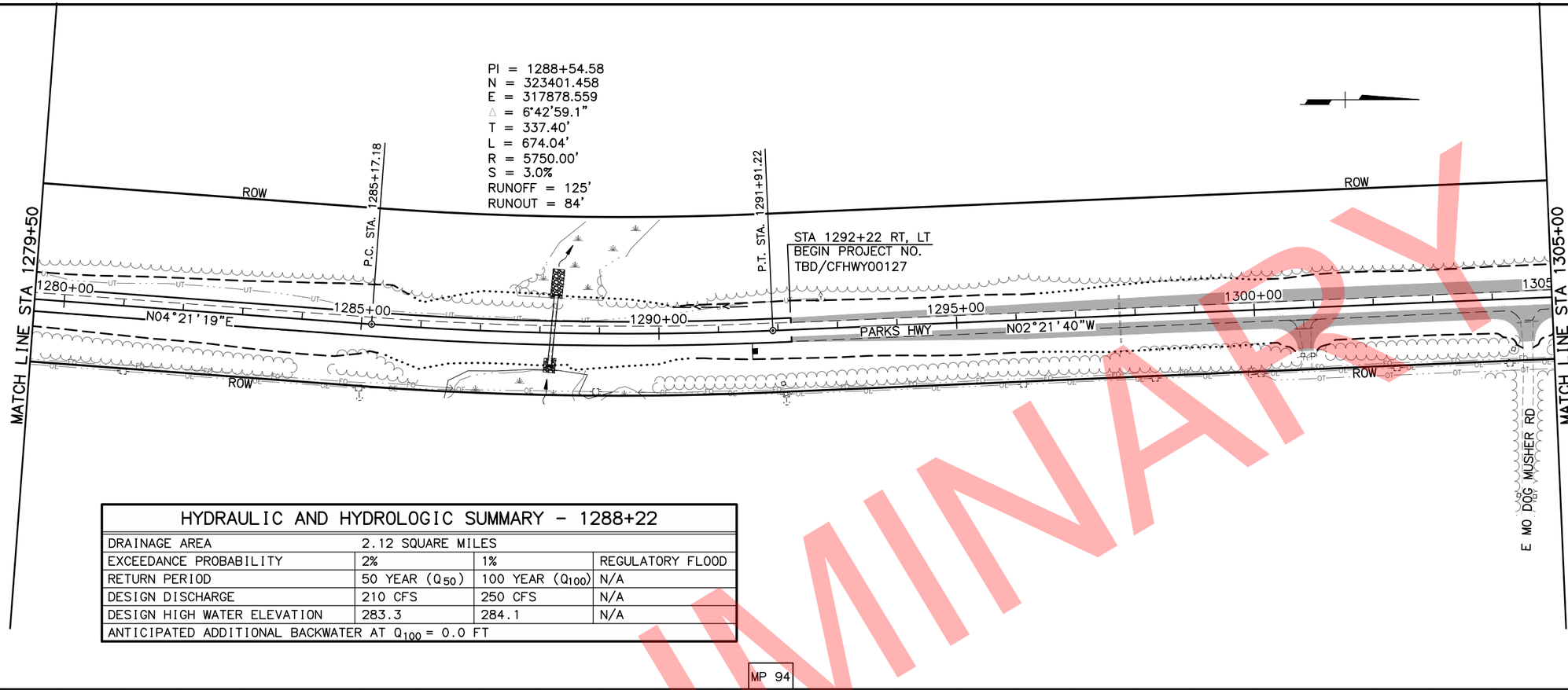
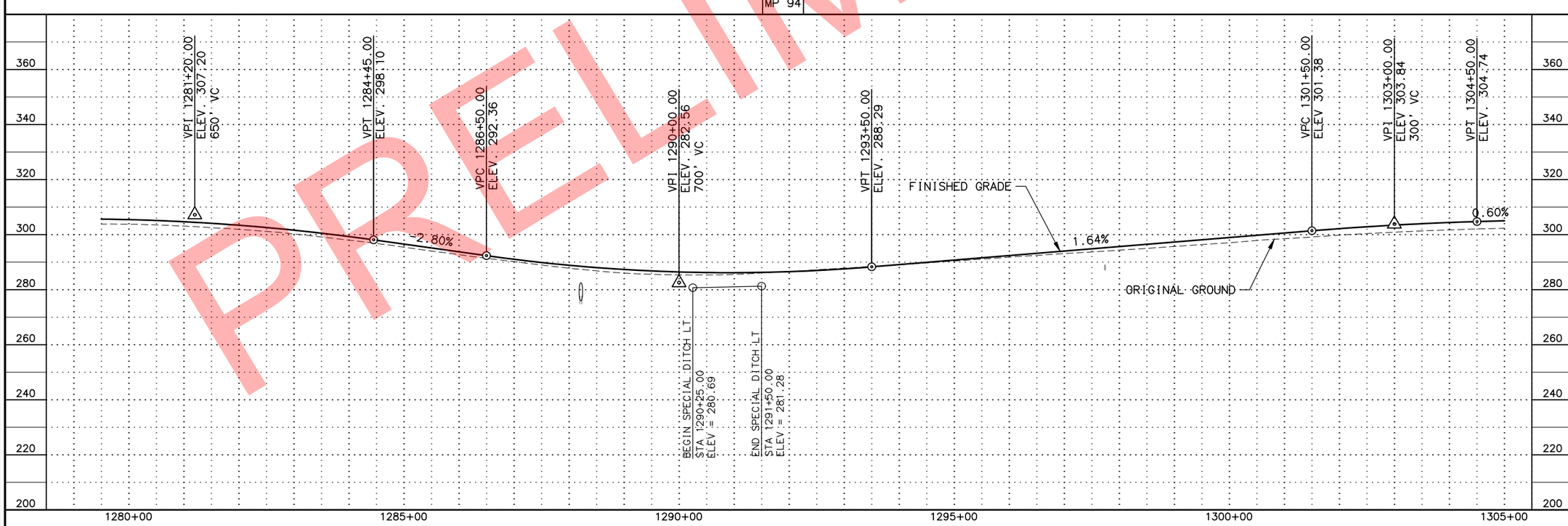


HYDRAULIC AND HYDROLOGIC SUMMARY - 1288+22			
DRAINAGE AREA	2.12 SQUARE MILES		
EXCEEDANCE PROBABILITY	2%	1%	REGULATORY FLOOD
RETURN PERIOD	50 YEAR (Q_{50})	100 YEAR (Q_{100})	N/A
DESIGN DISCHARGE	210 CFS	250 CFS	N/A
DESIGN HIGH WATER ELEVATION	283.3	284.1	N/A
ANTICIPATED ADDITIONAL BACKWATER AT Q_{100} = 0.0 FT			

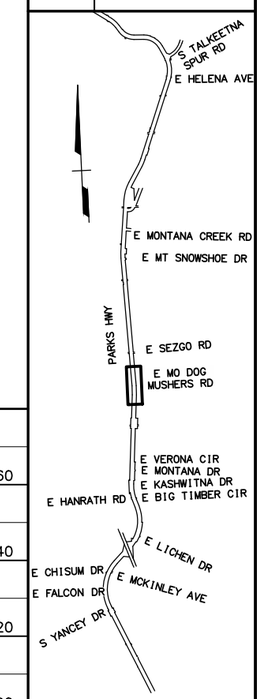
MP 94



SHEET NO.	TOTAL SHEETS
F9	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION
0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA 49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1279+50 TO 1305+00

PRELIMINARY

DATE/TIME 6/22/2017 4:49 PM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --
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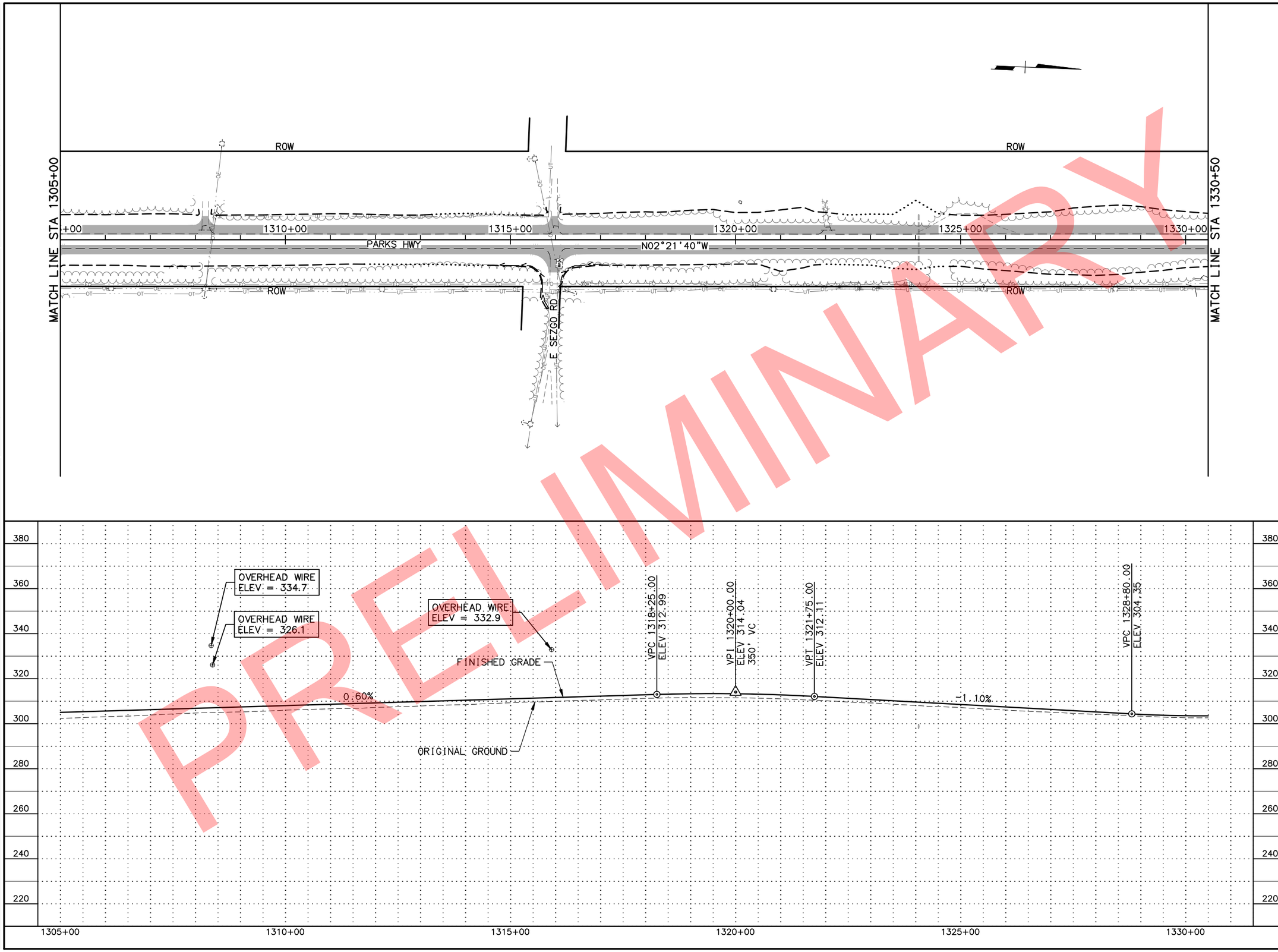


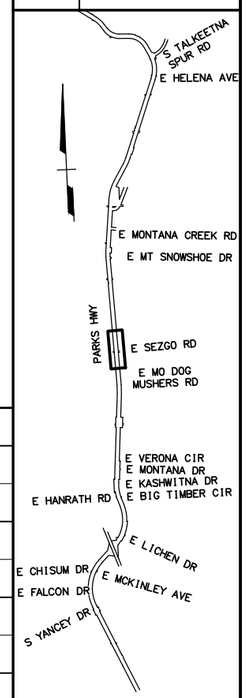
PRELIMINARY

SHEET NO.	TOTAL SHEETS
F10	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION

0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1305+00 TO 1330+50

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F01-F20.DWG BY bjarmok
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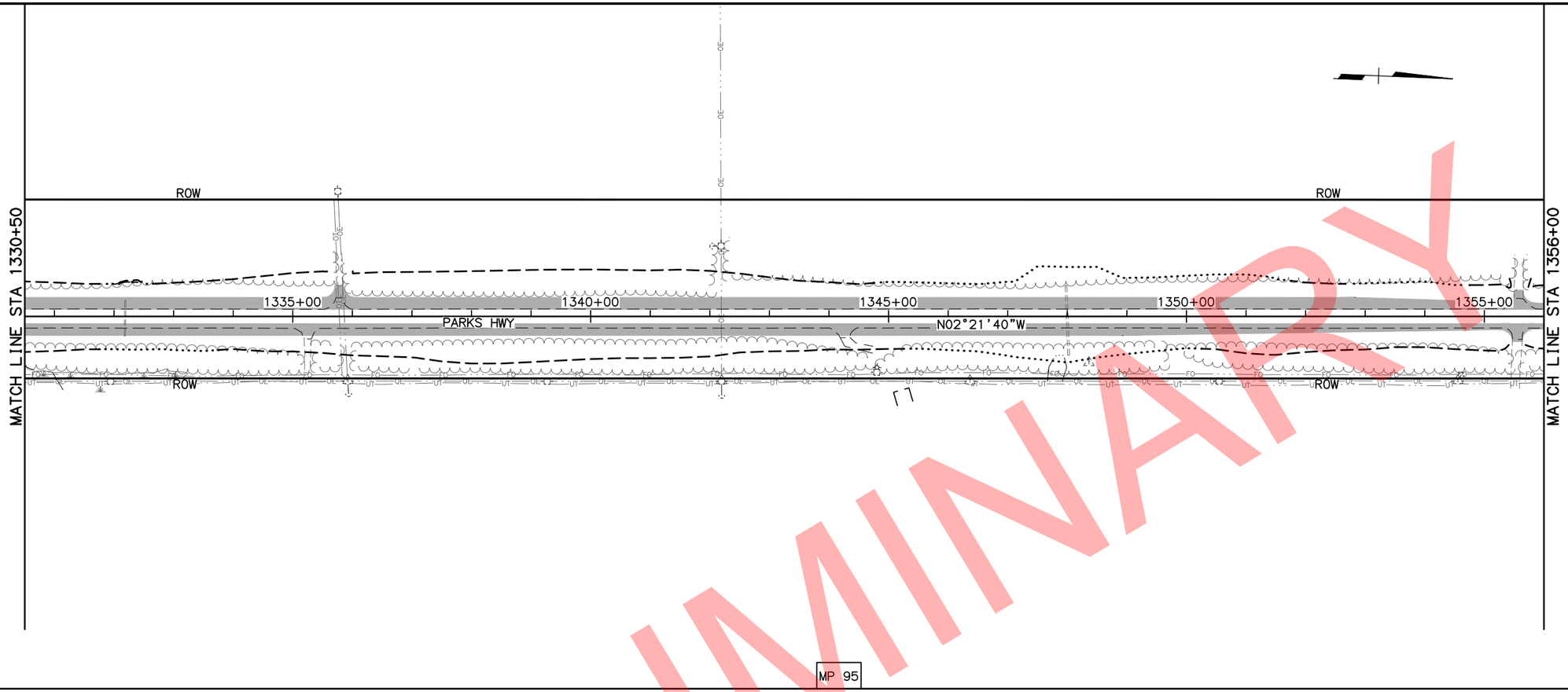
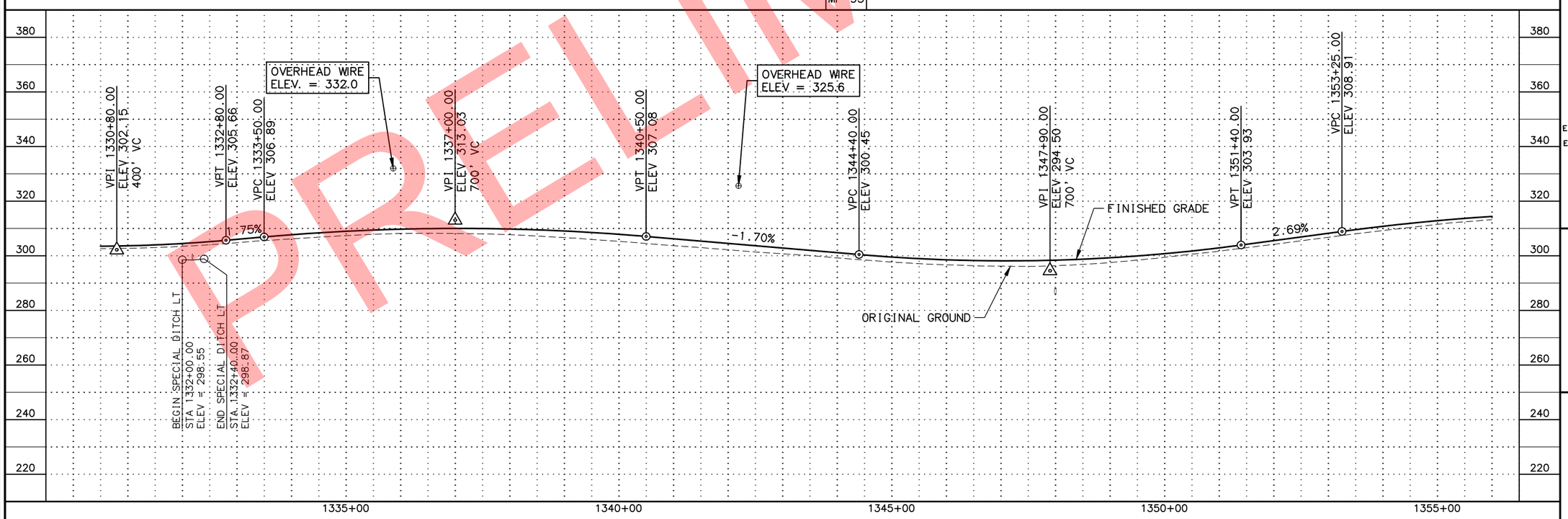




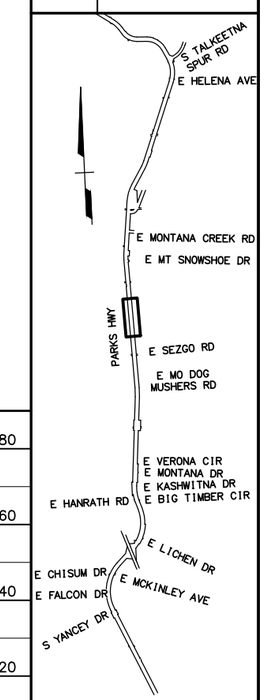
PRELIMINARY

SHEET NO.	TOTAL SHEETS
F11	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION

0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
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AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1330+50 TO 1356+00

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F01-F20.DWG BY byarnak
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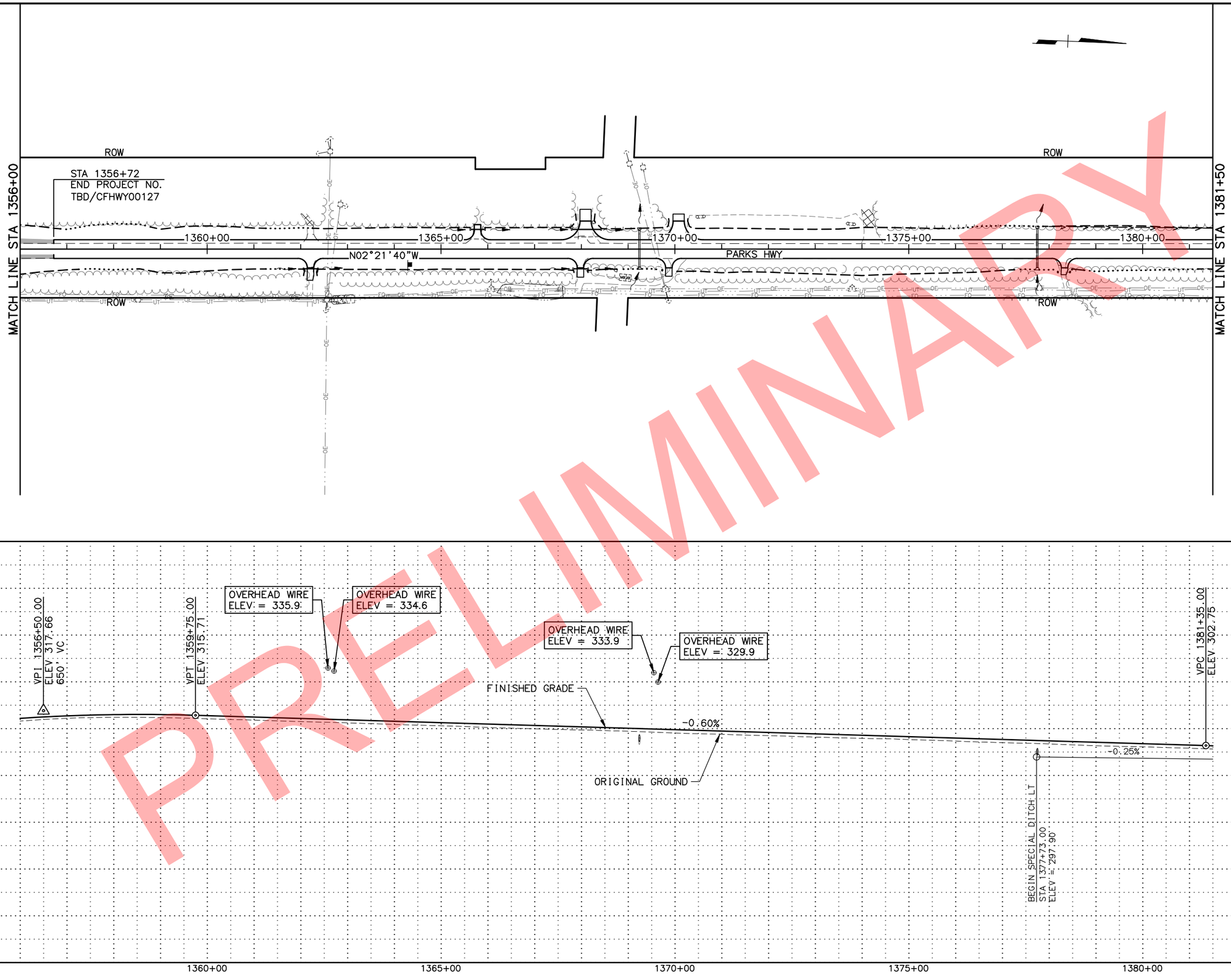
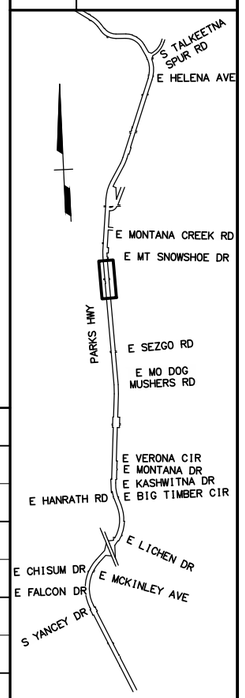


SHEET NO.	TOTAL SHEETS
F12	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION

0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
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REGISTERED PROFESSIONAL ENGINEER

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3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
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AECL861

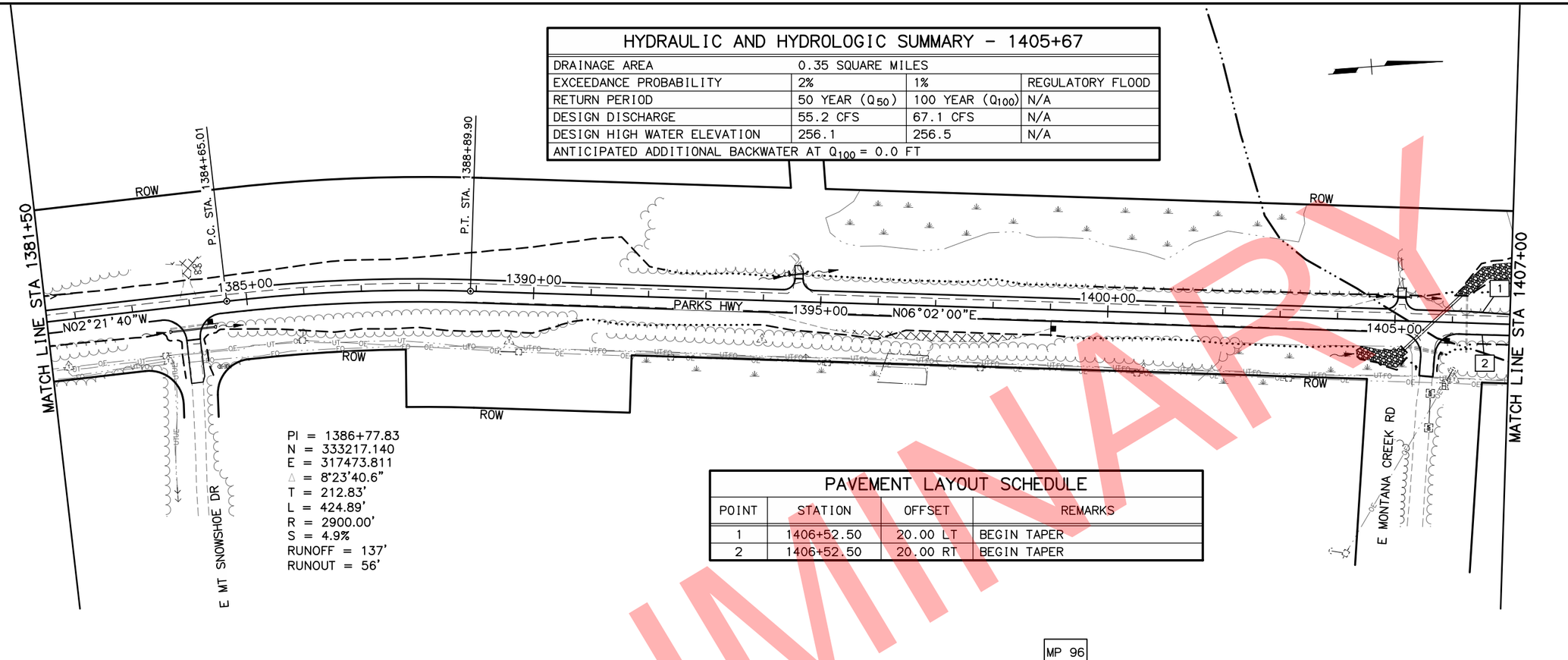
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1356+00 TO 1381+50

DATE/TIME 6/22/2017 10:34 AM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F01-F20.DWG BY bjarmak

HYDRAULIC AND HYDROLOGIC SUMMARY - 1405+67			
DRAINAGE AREA	0.35 SQUARE MILES		
EXCEEDANCE PROBABILITY	2%	1%	REGULATORY FLOOD
RETURN PERIOD	50 YEAR (Q_{50})	100 YEAR (Q_{100})	N/A
DESIGN DISCHARGE	55.2 CFS	67.1 CFS	N/A
DESIGN HIGH WATER ELEVATION	256.1	256.5	N/A
ANTICIPATED ADDITIONAL BACKWATER AT Q_{100} = 0.0 FT			



PAVEMENT LAYOUT SCHEDULE			
POINT	STATION	OFFSET	REMARKS
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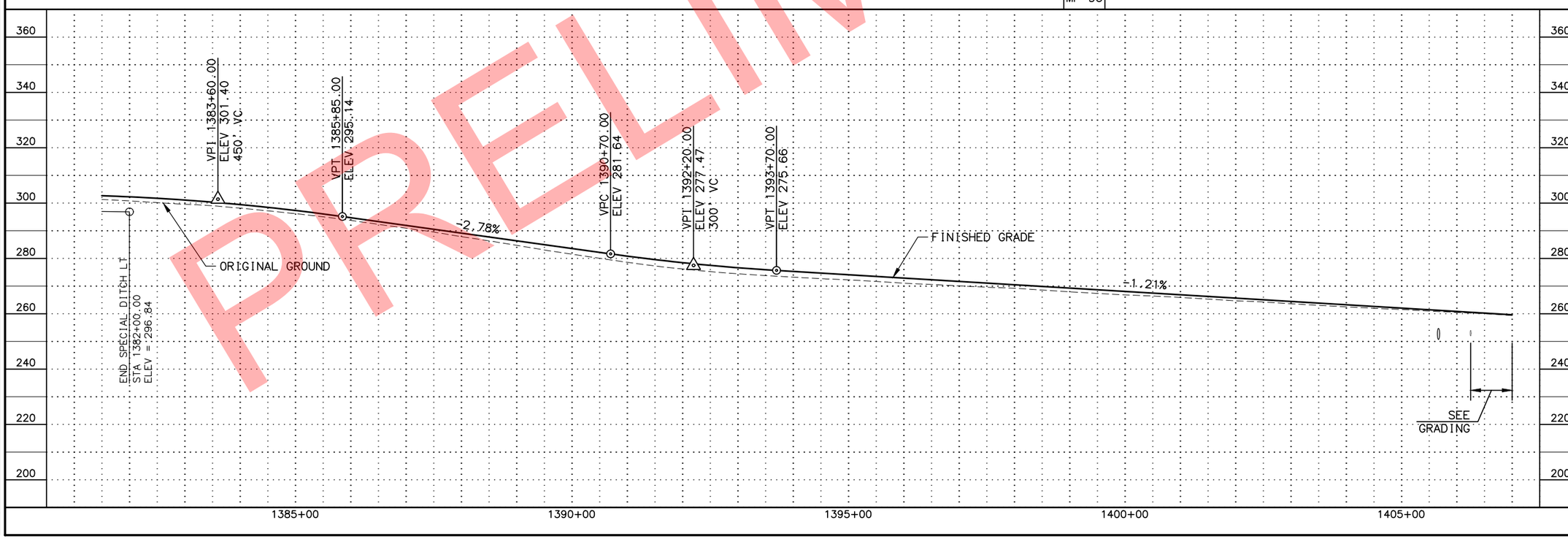
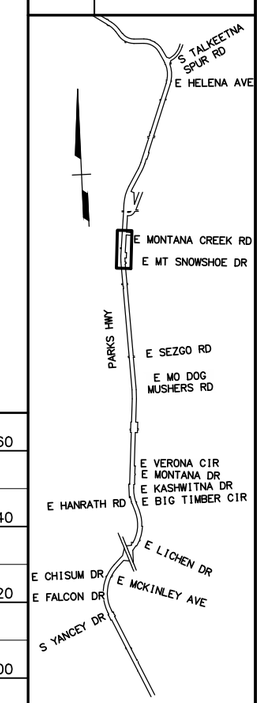
2	1406+52.50	20.00 RT	BEGIN TAPER

MP 96





SHEET NO.	TOTAL SHEETS
F13	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION
0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA 49TH
RICHARD D. HAMMOND
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REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
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AECL861

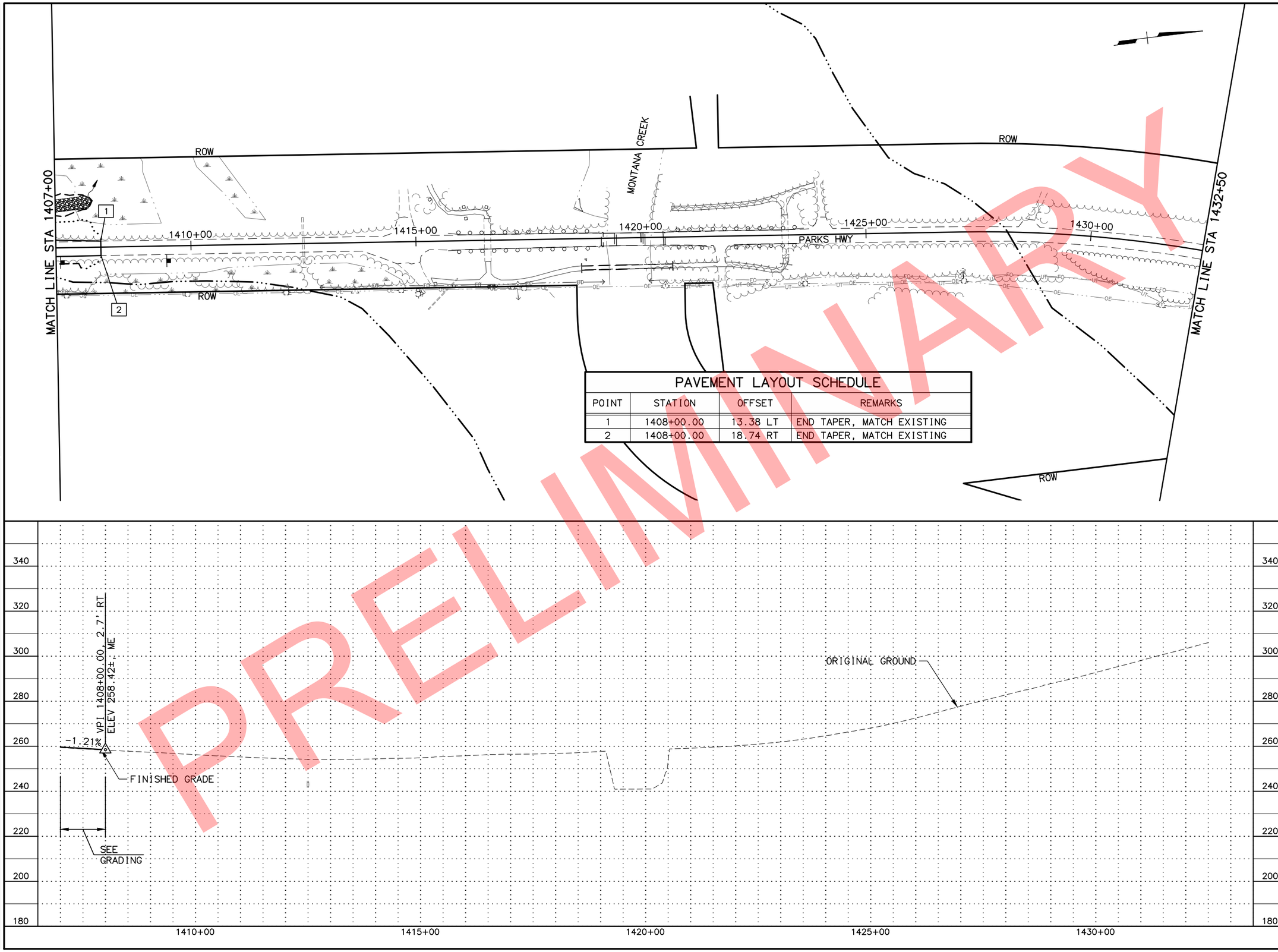
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1381+50 TO 1407+00

PRELIMINARY

DATE/TIME 6/22/2017 10:35 AM | LAYOUT LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F01-F20.DWG BY byarmak



PAVEMENT LAYOUT SCHEDULE

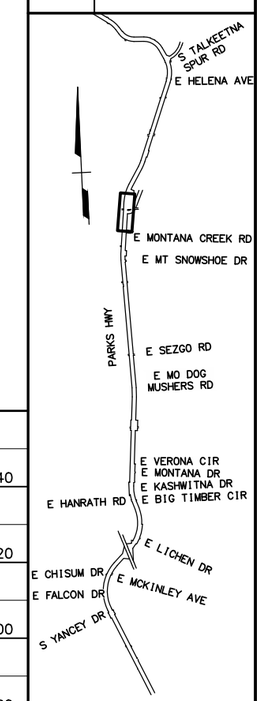
POINT	STATION	OFFSET	REMARKS
1	1408+00.00	13.38 LT	END TAPER, MATCH EXISTING
2	1408+00.00	18.74 RT	END TAPER, MATCH EXISTING

PRELIMINARY

SHEET NO.	TOTAL SHEETS
F14	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION
0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

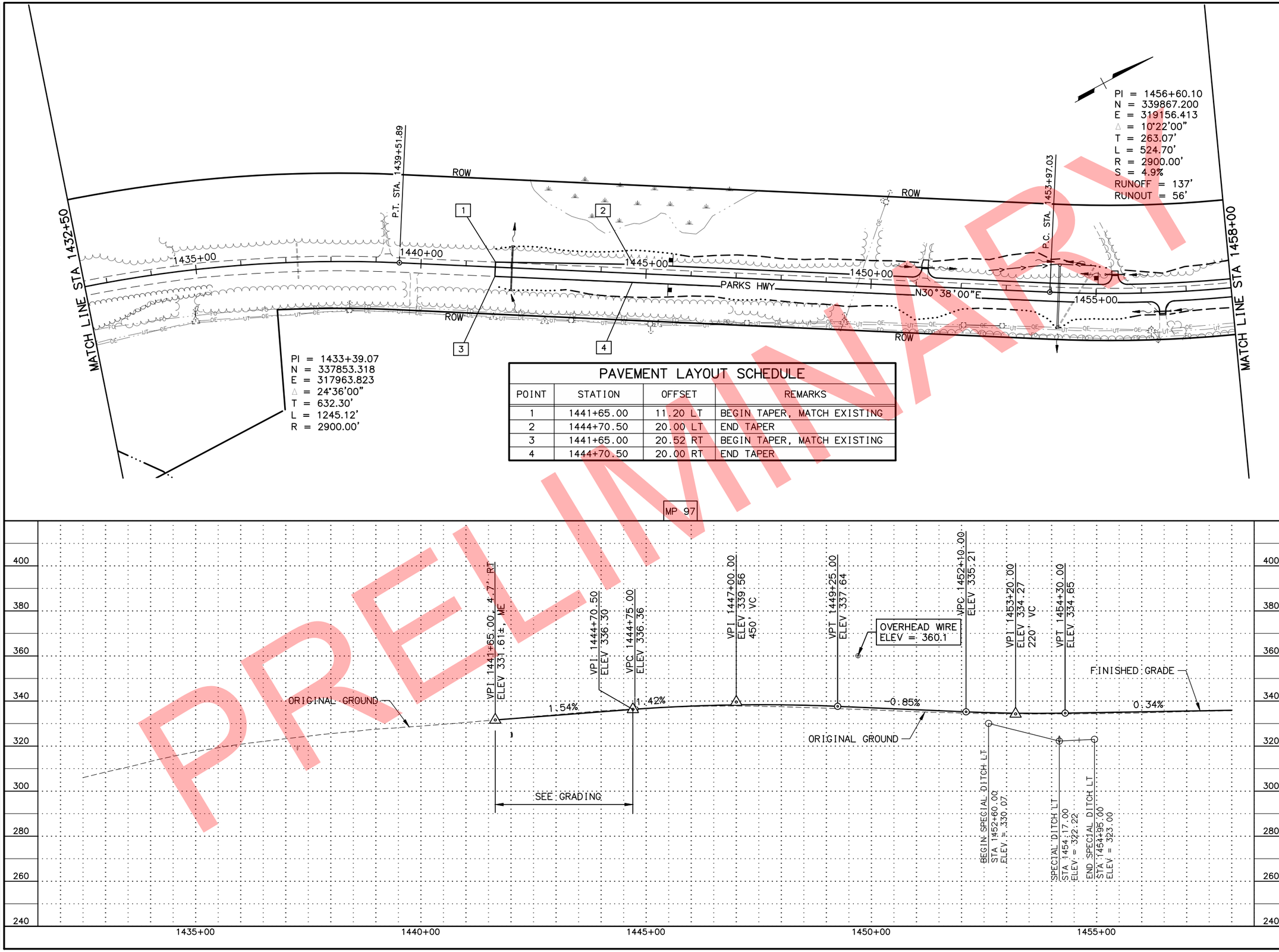
HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1407+00 TO 1432+50

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F01-F20.DWG BY byarmak
DATE/TIME 6/22/2017 10:35 AM | LAYOUT 1 | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --



PRELIMINARY

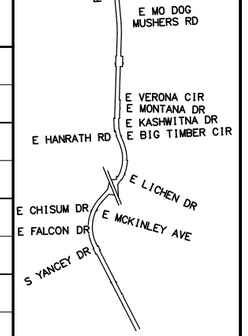
PAVEMENT LAYOUT SCHEDULE

POINT	STATION	OFFSET	REMARKS
1	1441+65.00	11.20 LT	BEGIN TAPER, MATCH EXISTING
2	1444+70.50	20.00 LT	END TAPER
3	1441+65.00	20.52 RT	BEGIN TAPER, MATCH EXISTING
4	1444+70.50	20.00 RT	END TAPER

SHEET NO.	TOTAL SHEETS
F15	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION
0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
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HDL ENGINEERING CONSULTANTS
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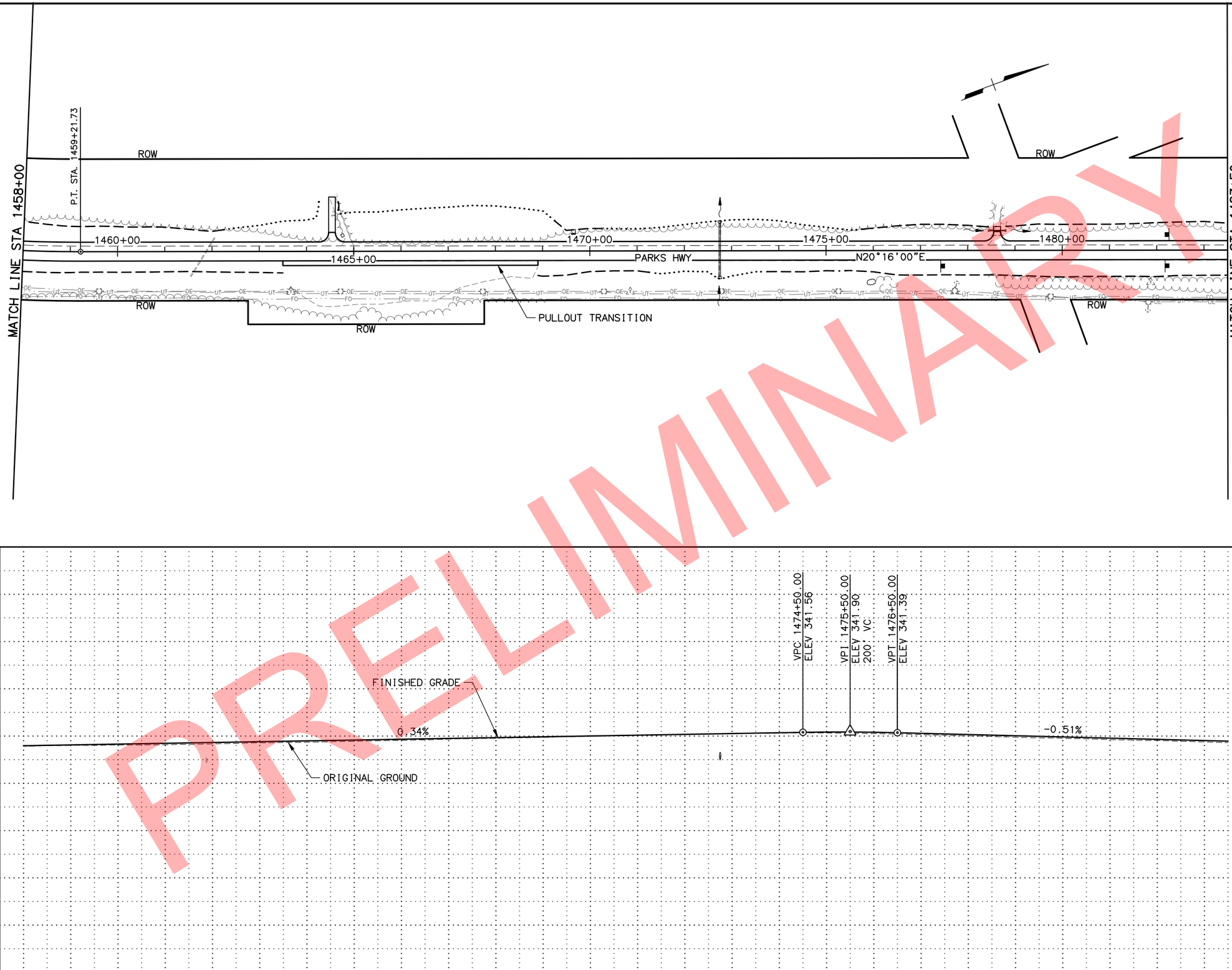
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1432+50 TO 1458+00

DATE/TIME 6/22/2017 10:36 AM | LAYOUT LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F01-F20.DWG BY byarmak

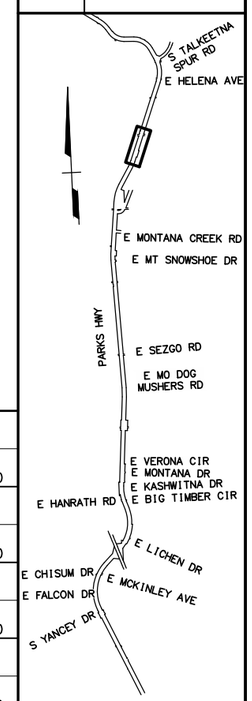


PRELIMINARY

SHEET NO.	TOTAL SHEETS
F16	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION
0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
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REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
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AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1458+00 TO 1483+50

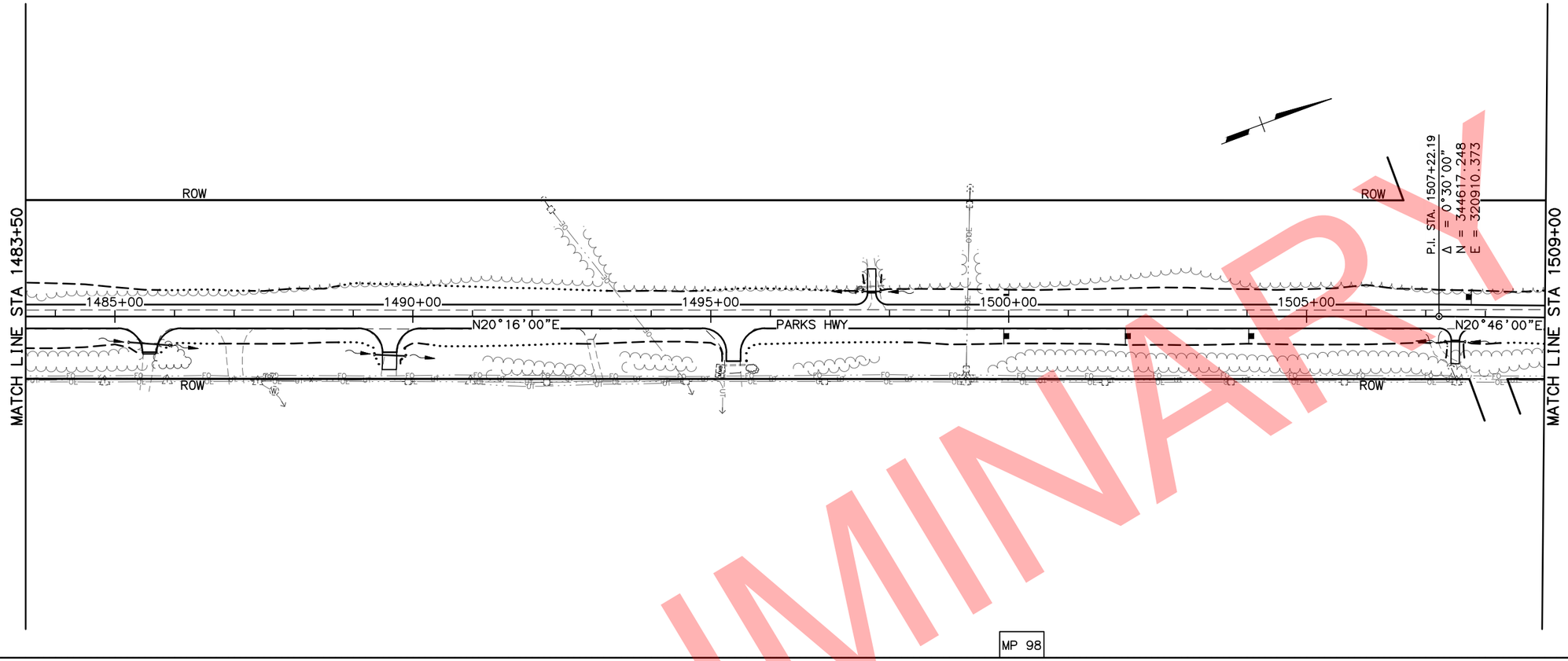
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F01-F20.DWG BY byarnok
DATE/TIME 6/22/2017 10:37 AM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --

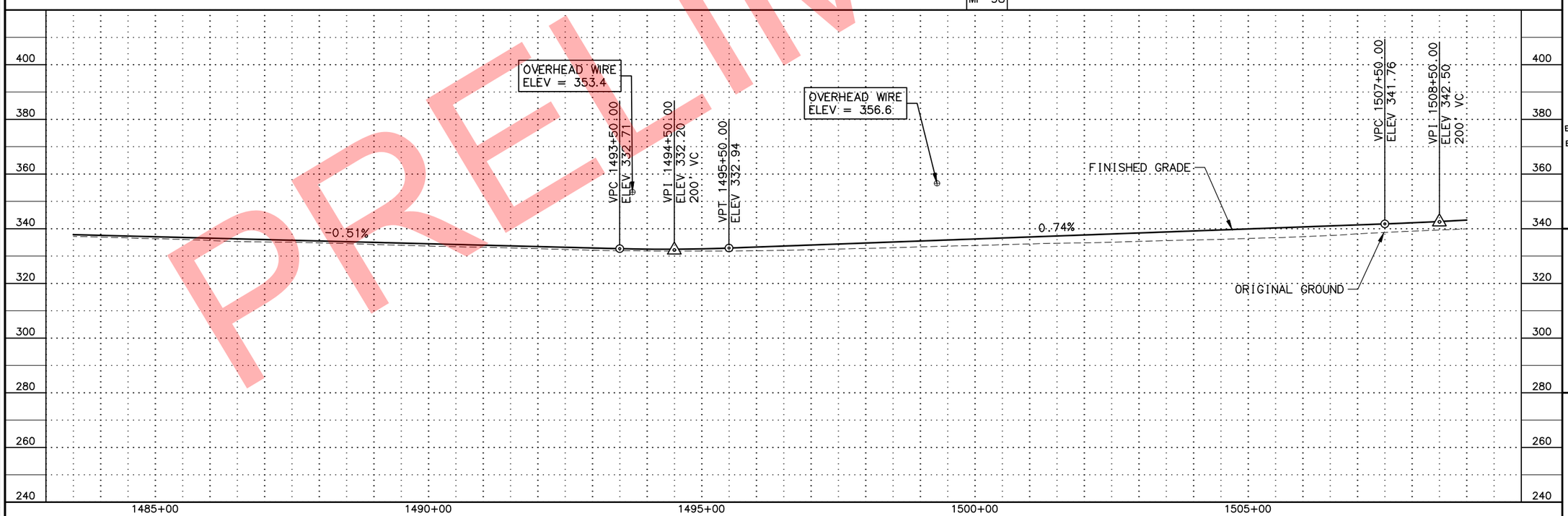
SHEET NO.	TOTAL SHEETS
F17	F28
STATE	YEAR
ALASKA	2017

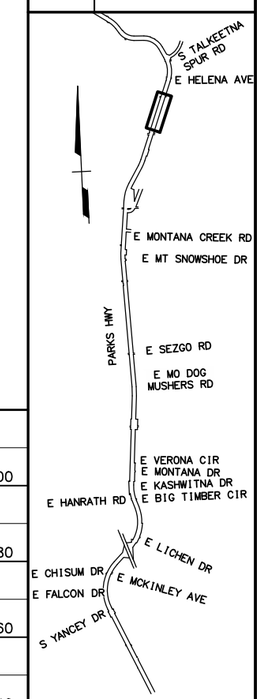
PROJECT DESIGNATION

0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	







STATE OF ALASKA
49TH
RICHARD D. HAMMOND
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3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
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AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1483+50 TO 1509+00

PRELIMINARY

DATE/TIME 6/22/2017 10:38 AM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --
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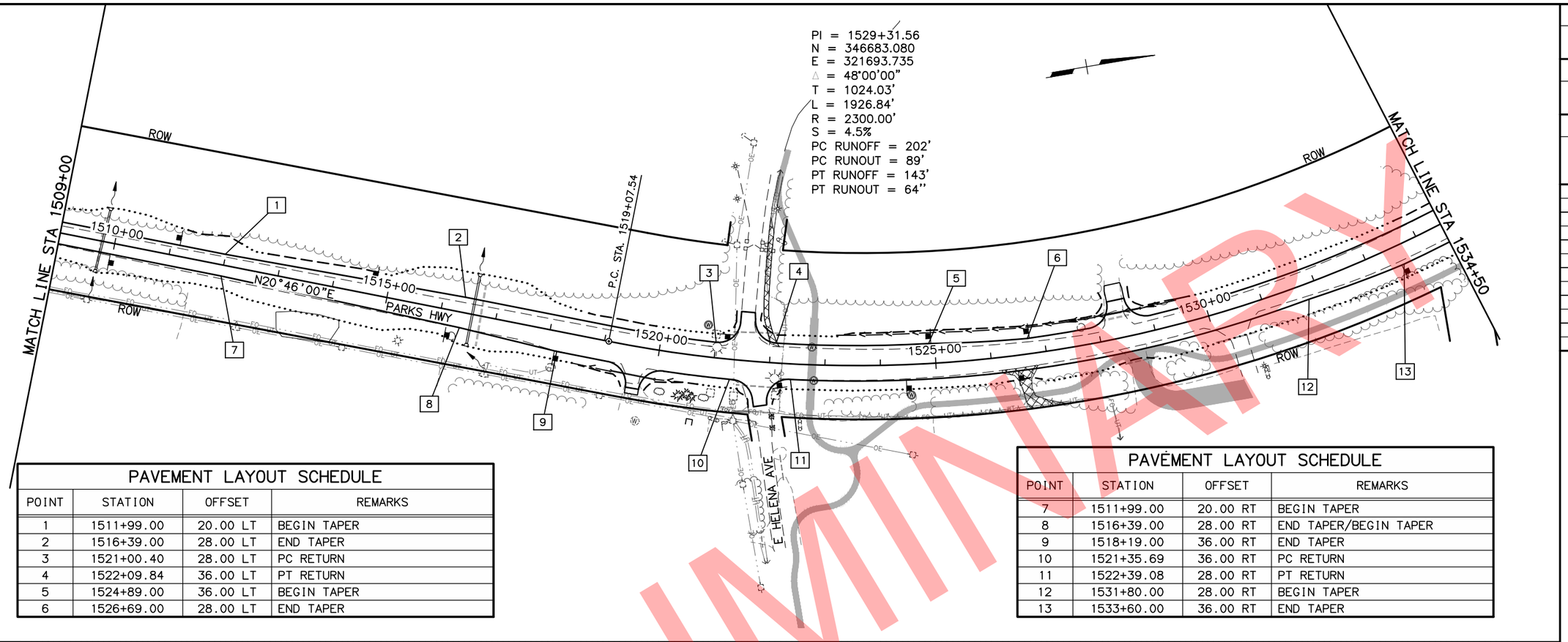
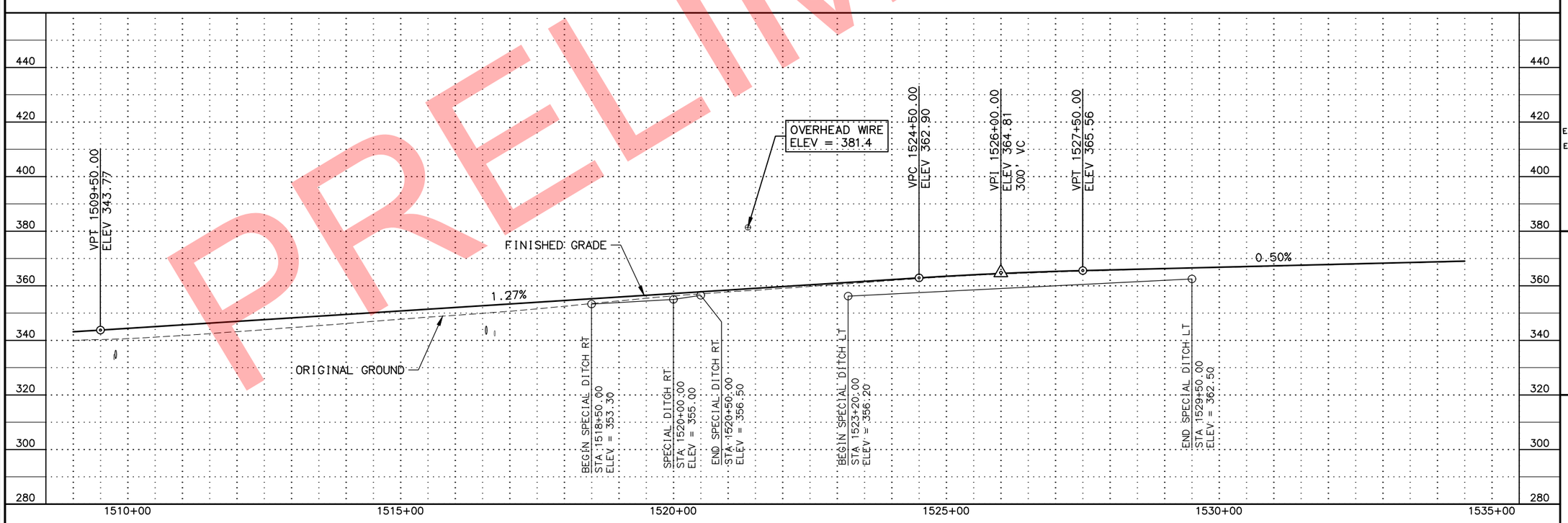


PAVEMENT LAYOUT SCHEDULE

POINT	STATION	OFFSET	REMARKS
1	1511+99.00	20.00 LT	BEGIN TAPER
2	1516+39.00	28.00 LT	END TAPER
3	1521+00.40	28.00 LT	PC RETURN
4	1522+09.84	36.00 LT	PT RETURN
5	1524+89.00	36.00 LT	BEGIN TAPER
6	1526+69.00	28.00 LT	END TAPER

PAVEMENT LAYOUT SCHEDULE

POINT	STATION	OFFSET	REMARKS
7	1511+99.00	20.00 RT	BEGIN TAPER
8	1516+39.00	28.00 RT	END TAPER/BEGIN TAPER
9	1518+19.00	36.00 RT	END TAPER
10	1521+35.69	36.00 RT	PC RETURN
11	1522+39.08	28.00 RT	PT RETURN
12	1531+80.00	28.00 RT	BEGIN TAPER
13	1533+60.00	36.00 RT	END TAPER

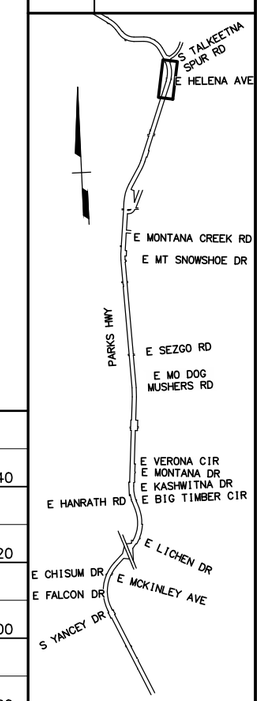


PRELIMINARY

SHEET NO.	TOTAL SHEETS
F18	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION
0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

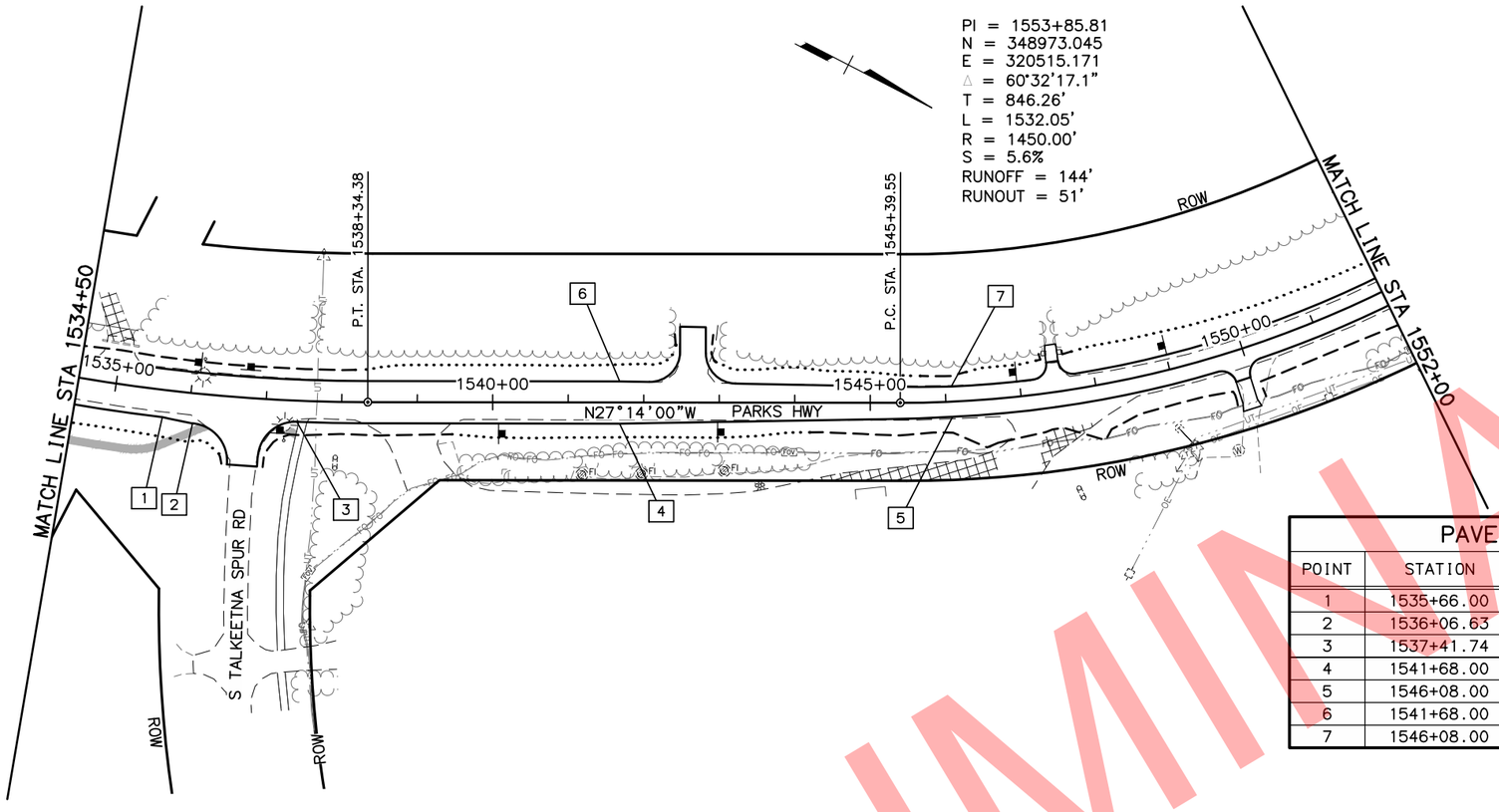
HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

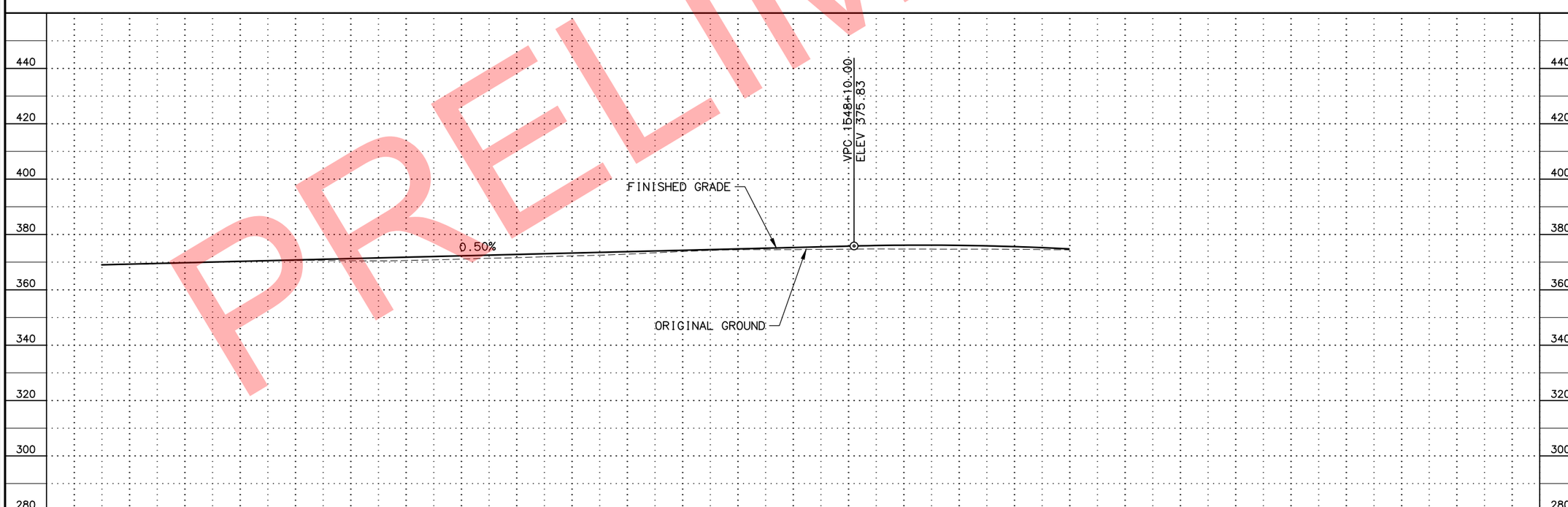
PLAN & PROFILE
1509+00 TO 1534+50

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F01-F20.DWG BY bjarmak
DATE/TIME 6/22/2017 10:38 AM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --



PAVEMENT LAYOUT SCHEDULE

POINT	STATION	OFFSET	REMARKS
1	1535+66.00	36.00 RT	BEGIN TAPER
2	1536+06.63	40.00 RT	END TAPER, PC RETURN
3	1537+41.74	28.00 RT	PT RETURN
4	1541+68.00	28.00 RT	BEGIN TAPER
5	1546+08.00	20.00 RT	END TAPER
6	1541+68.00	28.00 LT	BEGIN TAPER
7	1546+08.00	20.00 LT	END TAPER

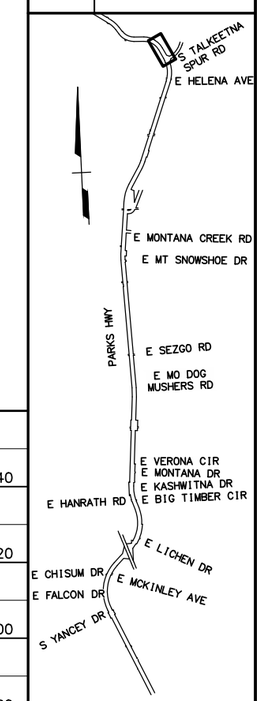


PRELIMINARY

SHEET NO.	TOTAL SHEETS
F19	F28
STATE	YEAR
ALASKA	2017

PROJECT DESIGNATION
0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

PLAN & PROFILE
1534+50 TO 1552+00

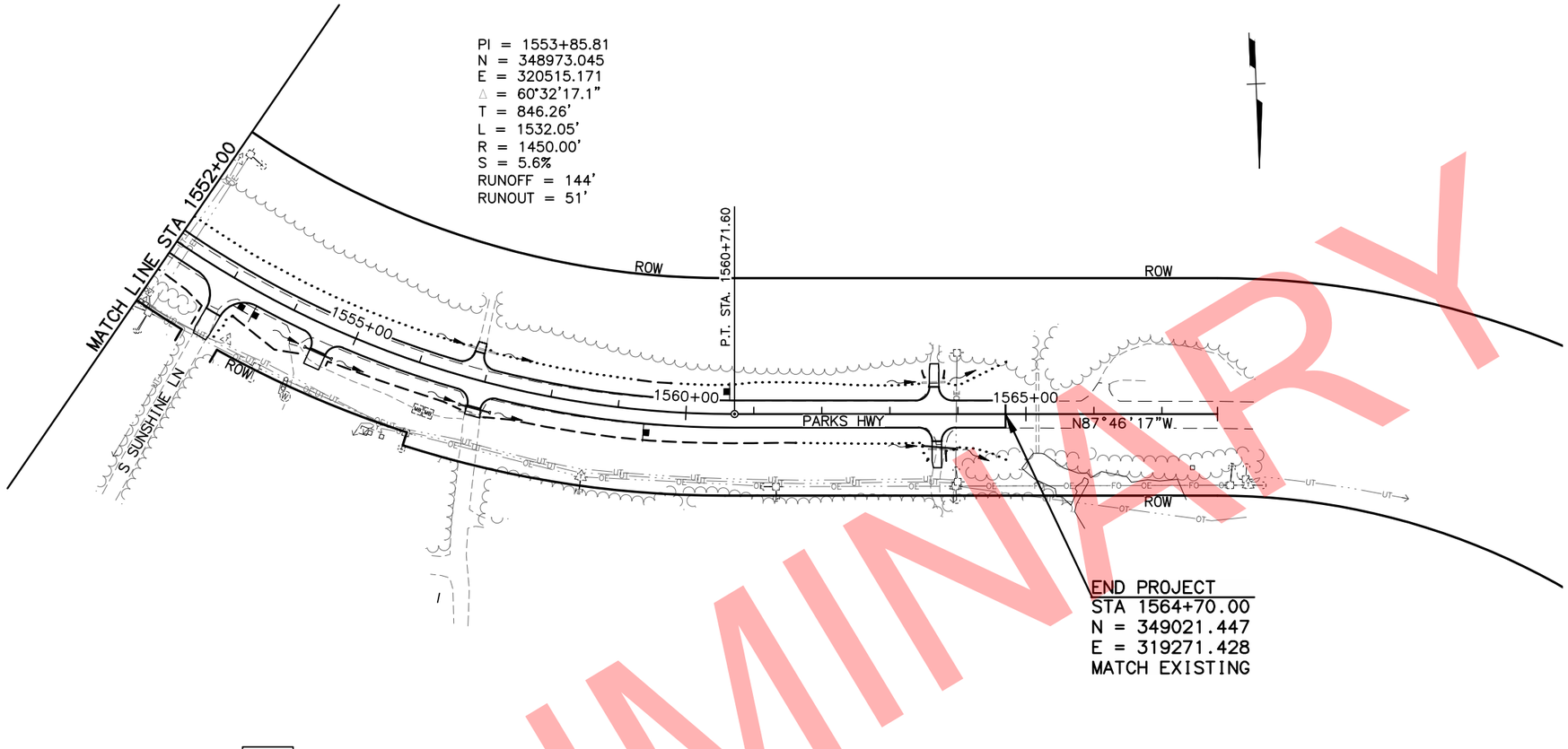
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F01-F20-NOTCP.DWG BY byermak
DATE/TIME 8/2/2017 3:15 PM LAYOUT LAYOUT1 DESIGNED -- CHECKED -- DRAFTED --

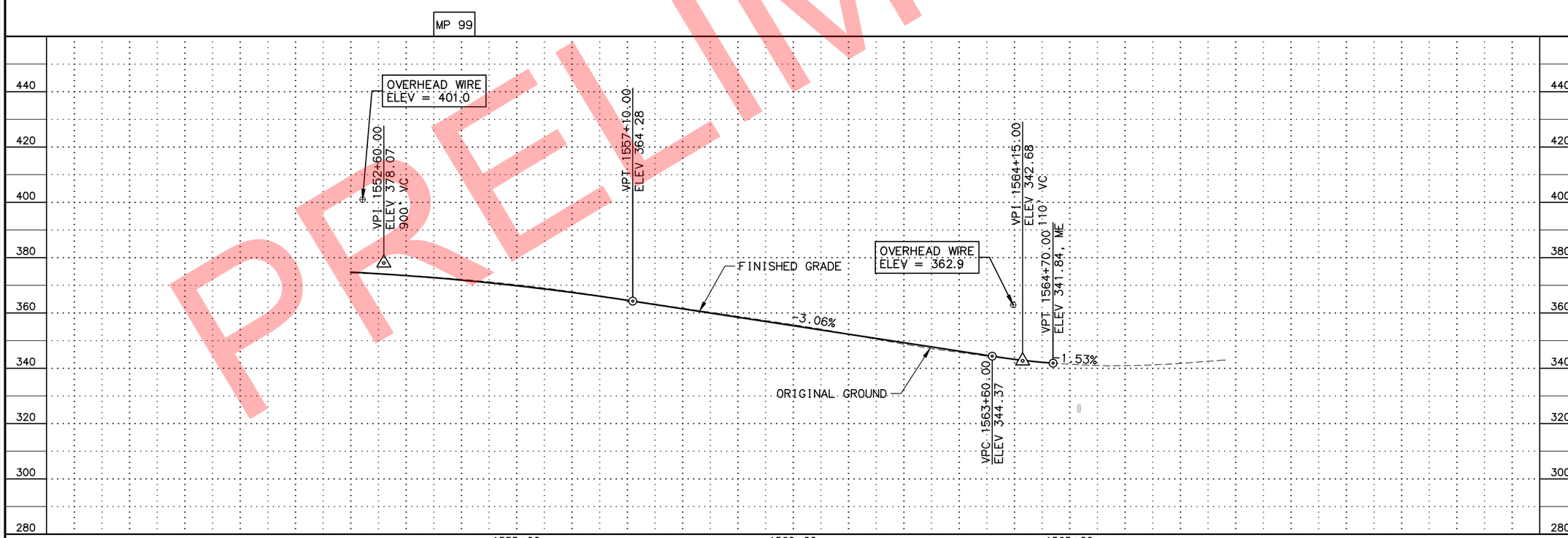
SHEET NO.	TOTAL SHEETS
F20	F28
STATE	YEAR
ALASKA	2017

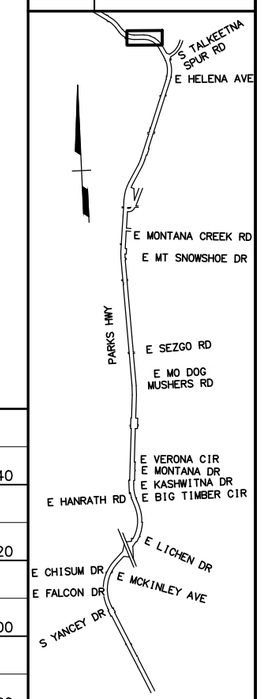
PROJECT DESIGNATION

0A41032/
Z561770000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	







STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90–99
REHABILITATION

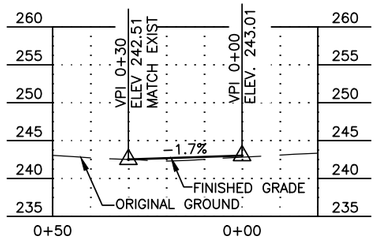
PLAN & PROFILE
1552+00 TO 1564+70

PRELIMINARY

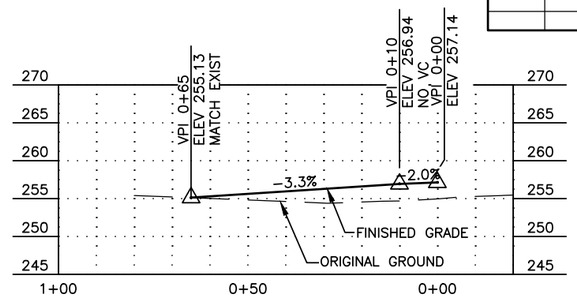
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\3032_10_F01-F20.DWG BY byermok
DATE/TIME 6/22/2017 10:40 AM
LAYOUT LAYOUT1
DESIGNED --
CHECKED --
DRAFTED --

NO.	DATE	REVISION

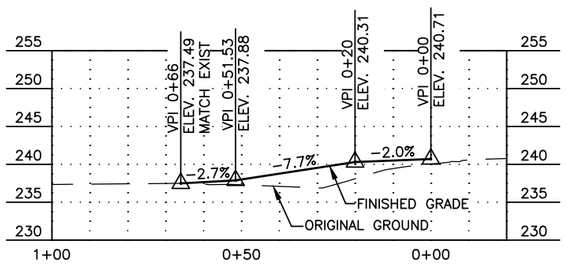
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	F21	F28



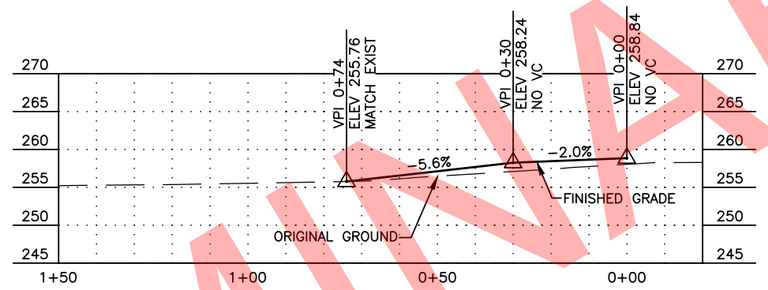
1079+60 LT



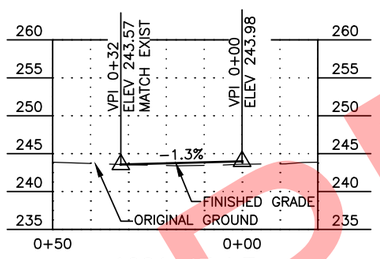
1115+04 LT



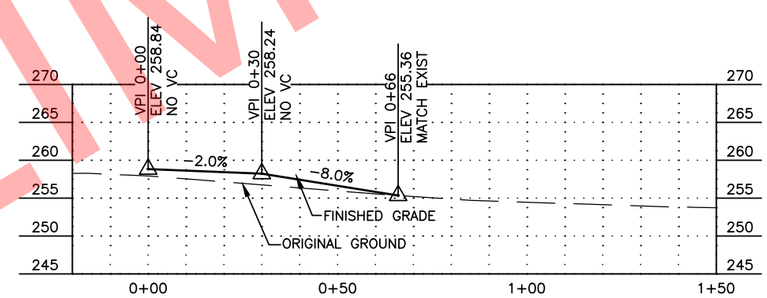
1084+93 LT



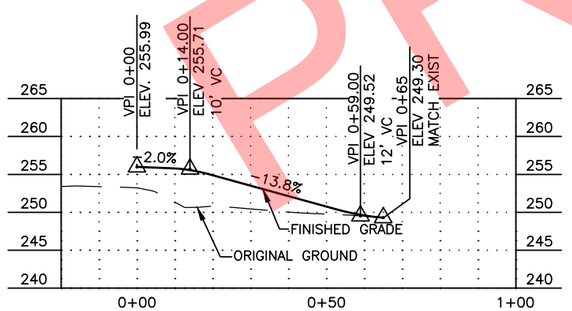
1120+60 LT
S YANCEY DR



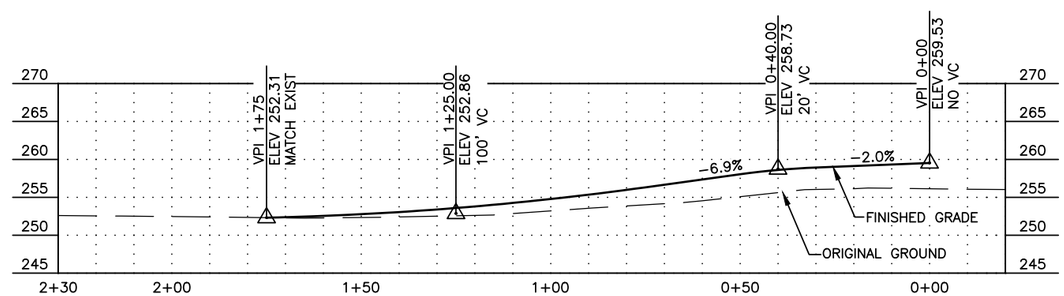
1091+47 LT



1120+60 RT
S YANCEY DR



1111+25 RT



1134+97 LT
E FALCON DR

STATE OF ALASKA
49TH
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(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

APPROACH PROFILES

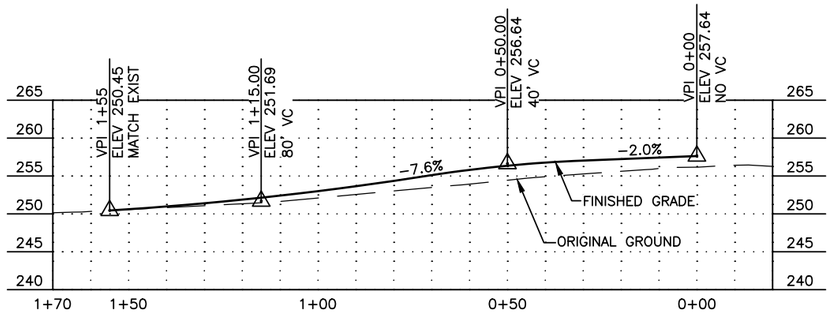
PRELIMINARY

DATE/TIME 6/22/2017 10:59 AM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --

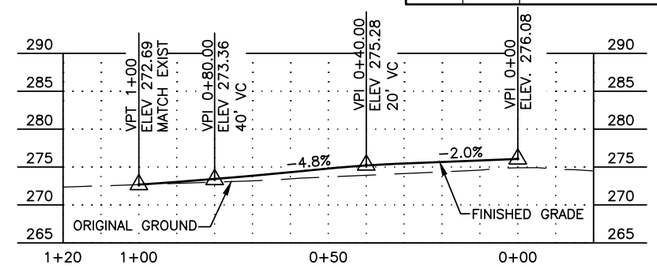
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F21-F28_DRIVEWAYS.DWG BY byarmak

NO.	DATE	REVISION

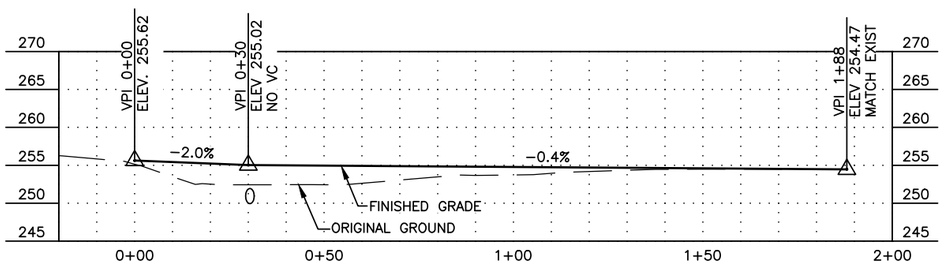
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	F22	F28



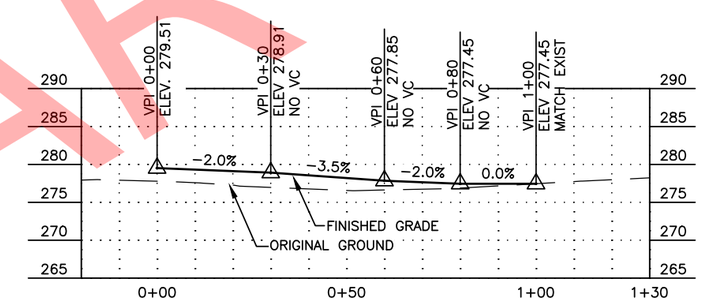
1148+33 LT
E CHISUM DR



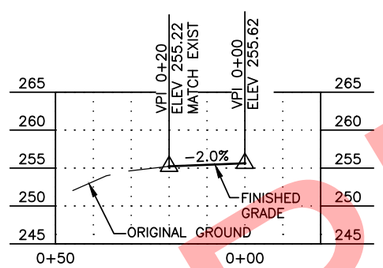
1209+72 LT
E HANRATH RD



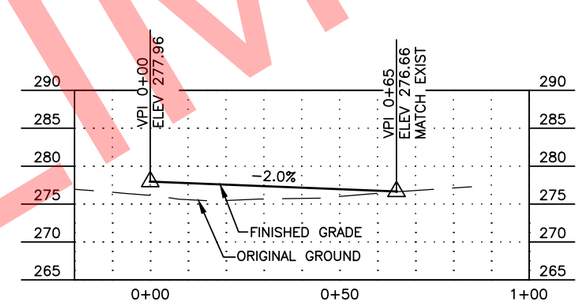
1148+45 RT
E MCKINLEY AVE



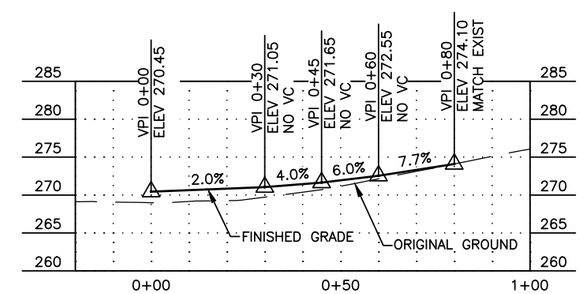
1230+36 RT
E MONTANA DR



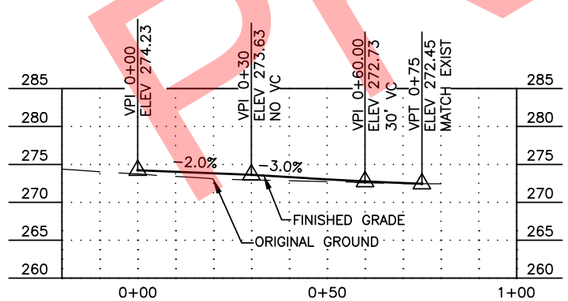
1155+06 LT



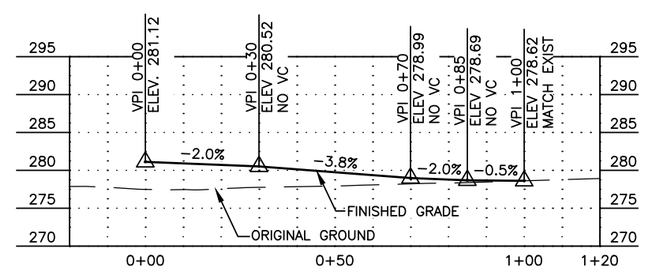
1213+90 RT



1236+52 RT
E VERONA CIR



1209+66 RT
E BIG TIMBER CIR



1223+18 RT
E KASHWITNA RD

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

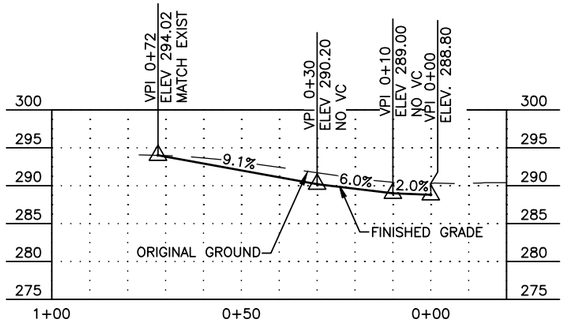
PARKS HWY: MP 90-99
REHABILITATION

APPROACH PROFILES

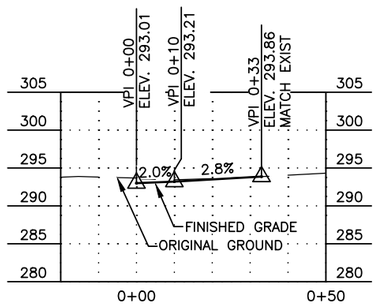
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F21-F28_DRIVEWAYS.DWG BY byarmak
DATE/TIME 6/22/2017 11:00 AM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --

NO.	DATE	REVISION

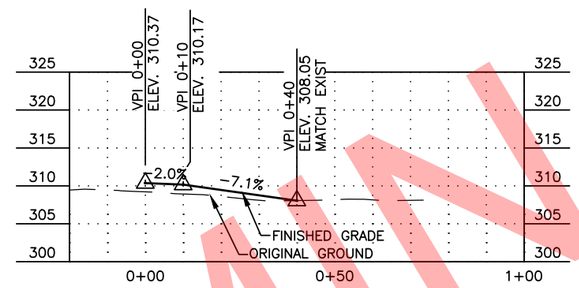
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	F23	F28



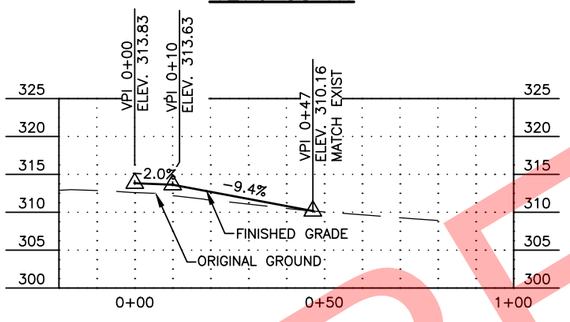
1269+82 LT



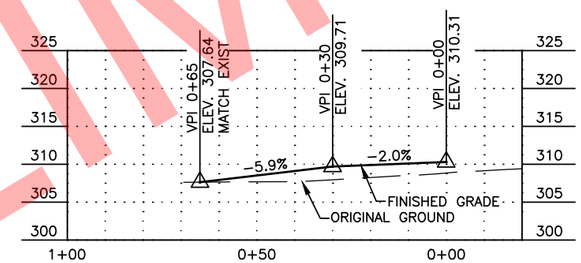
1270+98 RT



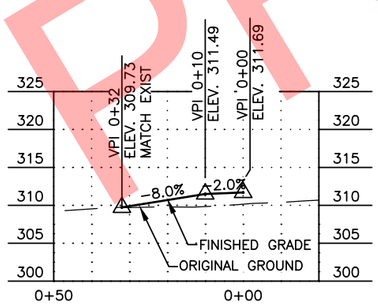
1367+98 RT



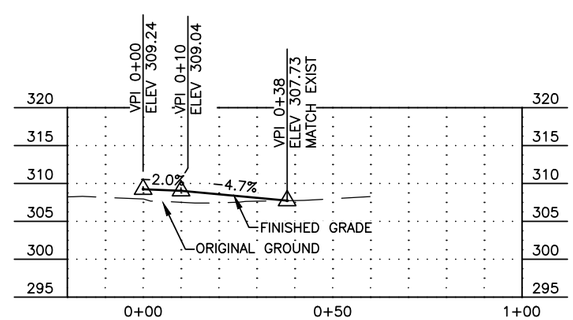
1362+21 RT



1368+09 LT



1365+78 LT



1369+87 RT

PRELIMINARY

STATE OF ALASKA
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
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AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

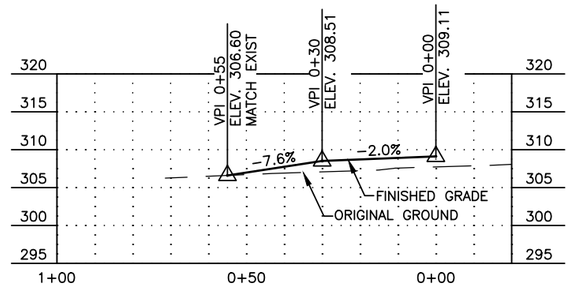
PARKS HWY: MP 90-99 REHABILITATION

APPROACH PROFILES

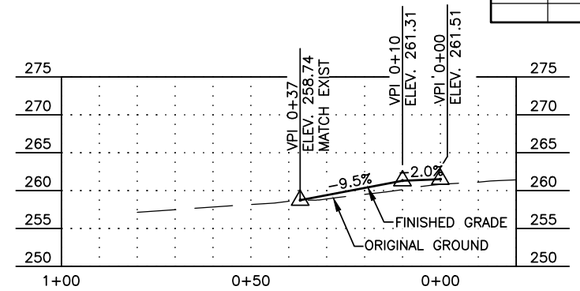
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F21-F28_DRIVEWAYS.DWG BY byermak
DATE/TIME 6/22/2017 11:00 AM LAYOUT LAYOUT1 DESIGNED -- CHECKED -- DRAFTED --

NO.	DATE	REVISION

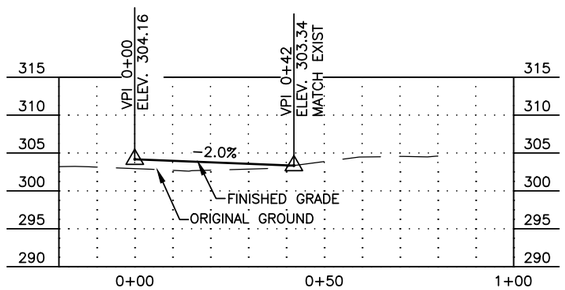
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	F24	F28



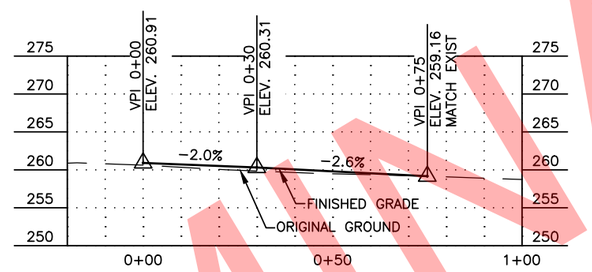
1370+08 LT



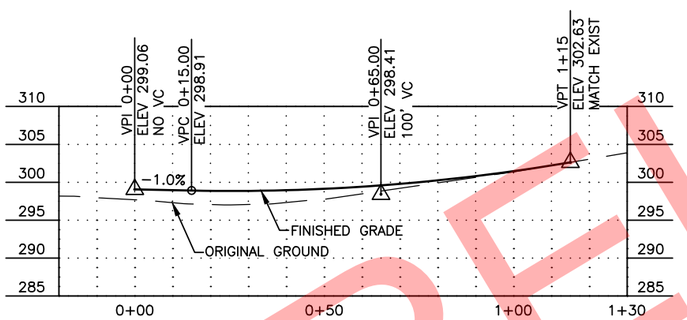
1405+11 LT



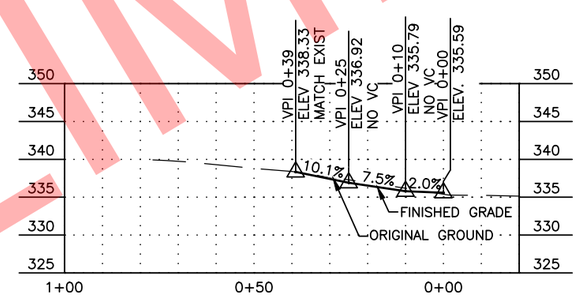
1378+33 RT



1405+61 RT
E MONTANA CREEK RD



1384+00 RT
E MT SNOWSHOE DR



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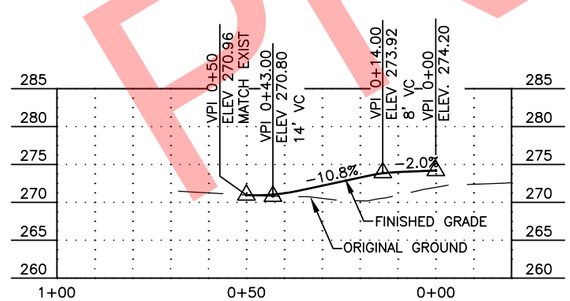
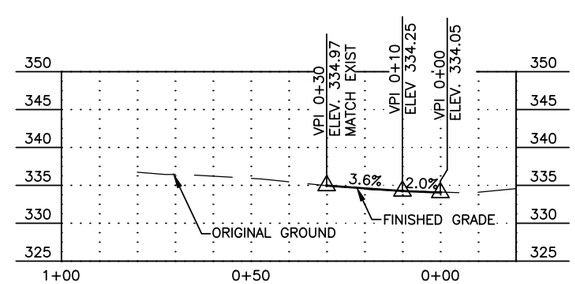


1394+58 LT



1455+42 LT

PRELIMINARY

STATE OF ALASKA
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

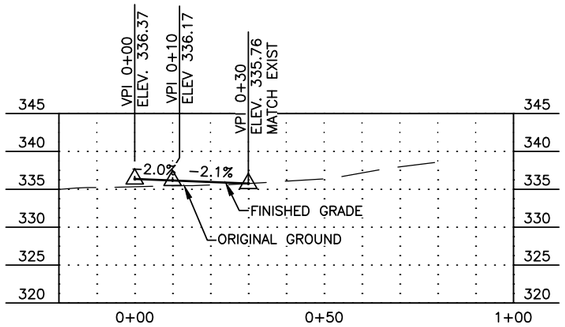
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

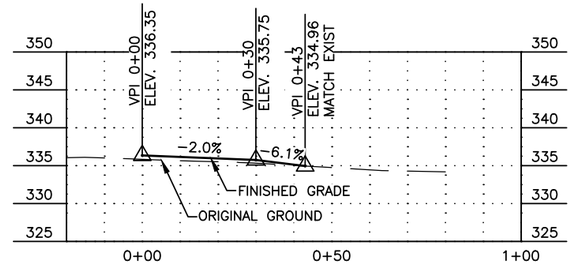
APPROACH PROFILES

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\3032_10_F21-F28_DRIVEWAYS.DWG BY byermok
DATE/TIME 6/22/2017 11:01 AM LAYOUT LAYOUT1 DESIGNED -- CHECKED -- DRAFTED --

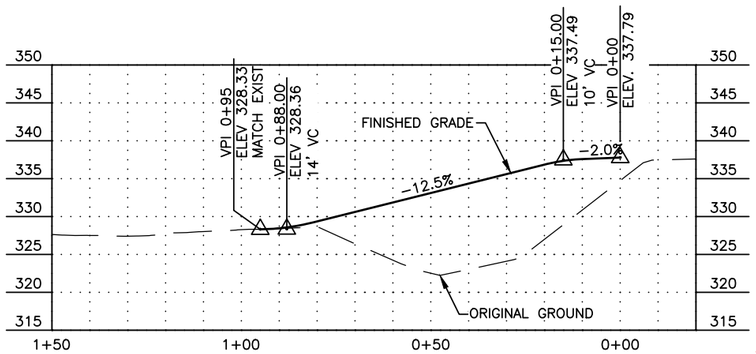
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A41032/Z561770000	2017	F25	F28



1456+46 RT



1485+58 RT



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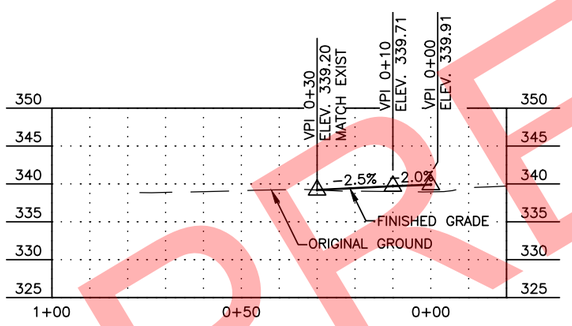
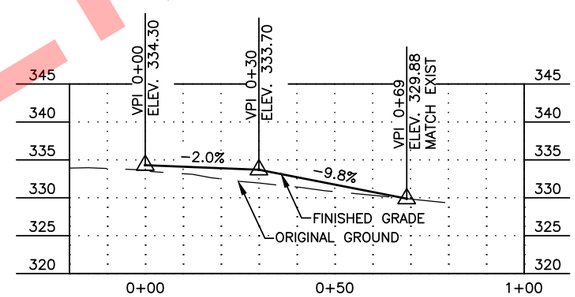


1478+62 LT



1489+61 RT

PRELIMINARY

STATE OF ALASKA
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

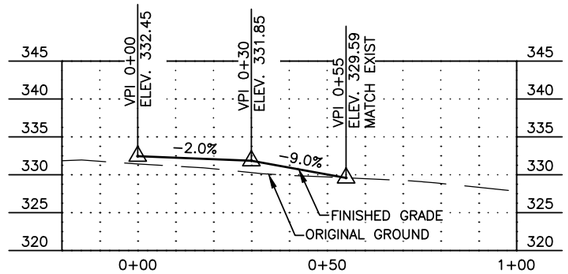
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

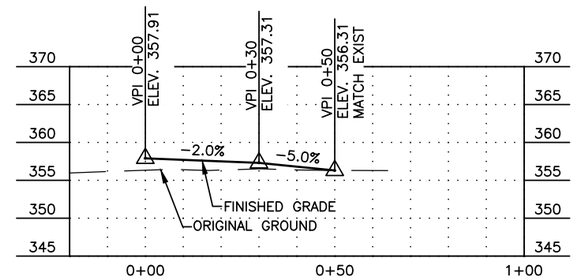
APPROACH PROFILES

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F21-F28_DRIVEWAYS.DWG BY bjarmak
DATE/TIME 6/22/2017 11:02 AM | LAYOUT1 | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --

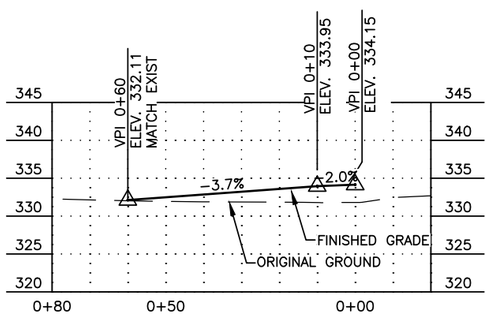
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A41032/Z561770000	2017	F26	F28



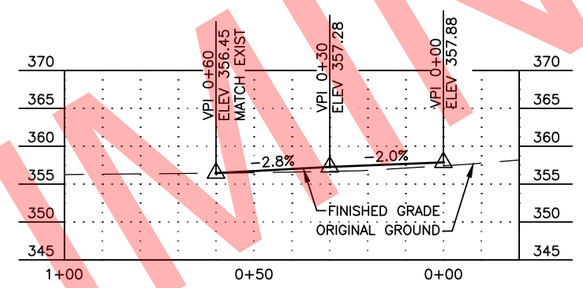
1495+38 RT



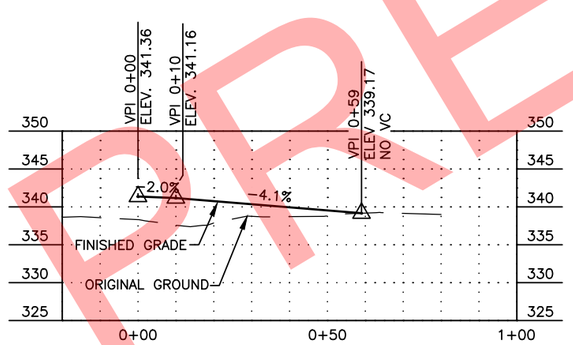
1519+63 RT



1497+70 LT



1521+55 LT



1507+50 RT

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

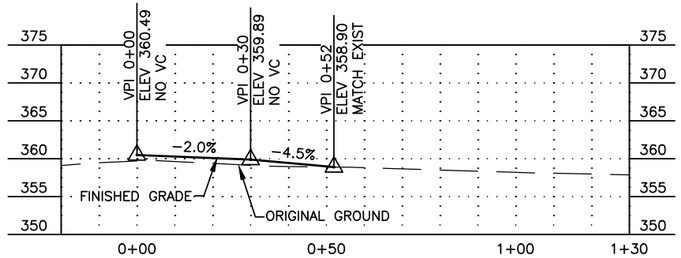
PARKS HWY: MP 90-99
REHABILITATION

APPROACH PROFILES

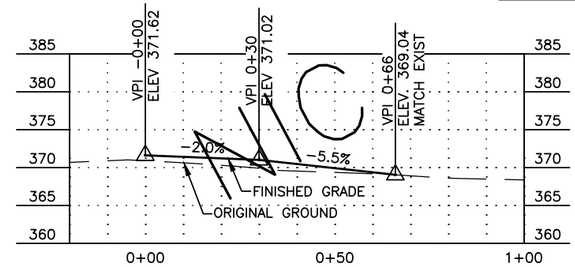
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F21-F28_DRIVEWAYS.DWG BY bydrmok
DATE/TIME 6/22/2017 11:02 AM LAYOUT LAYOUT1 DESIGNED -- CHECKED -- DRAFTED --

NO.	DATE	REVISION

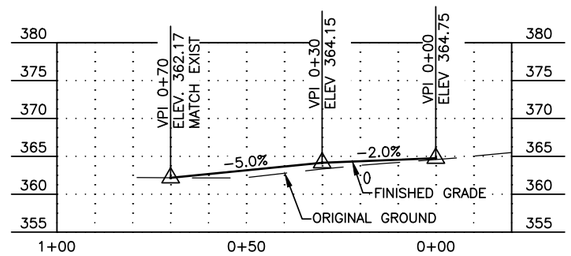
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	F27	F28



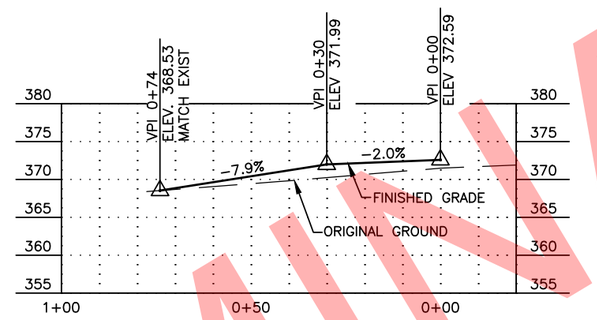
1521+78 RT
E HELENA AVE



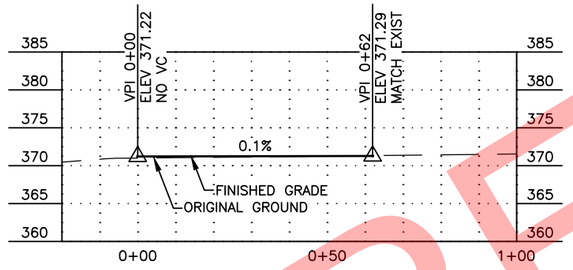
~~1539+08 RT~~



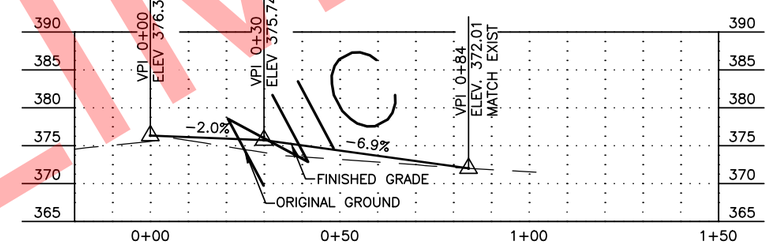
1528+41 LT



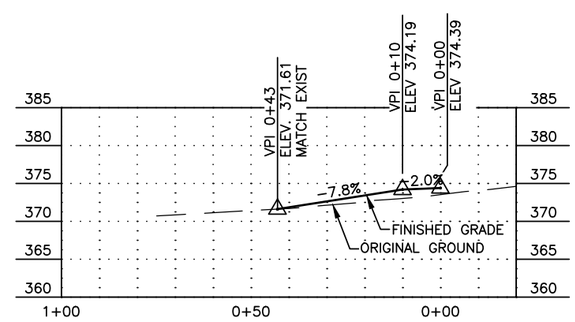
1542+65 LT



1536+74 RT
S TALKEETNA SPUR



~~1546+89 RT~~



1547+47 LT

PRELIMINARY

STATE OF ALASKA
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
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AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

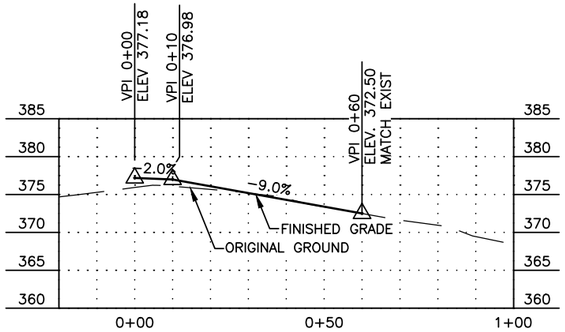
PARKS HWY: MP 90-99
REHABILITATION

APPROACH PROFILES

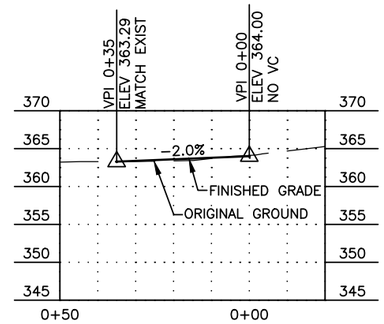
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_F21-F28_NOTCP.DWG BY byarmok
DATE/TIME 8/2/2017 3:33 PM LAYOUT LAYOUT1 DESIGNED -- CHECKED -- DRAFTED --

NO.	DATE	REVISION

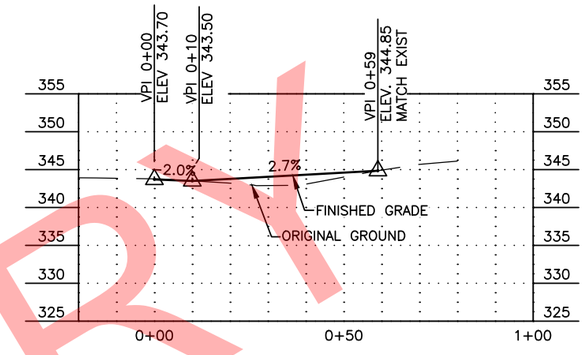
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	F28	F28



1549+89 RT



1556+82 LT



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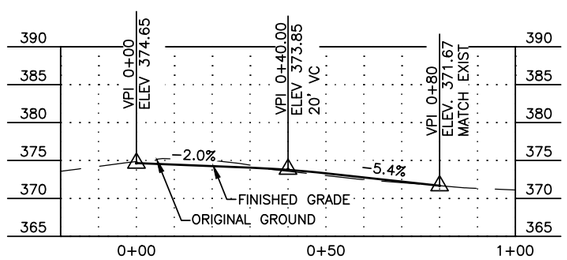
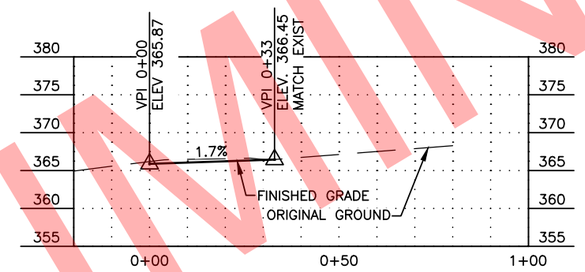
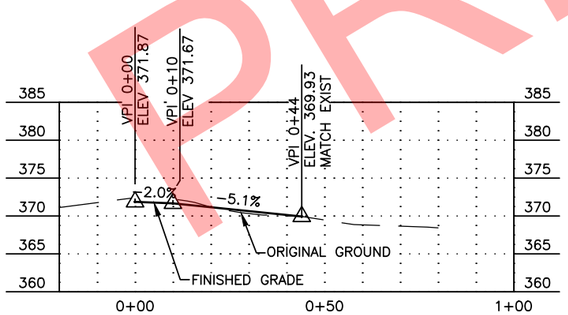


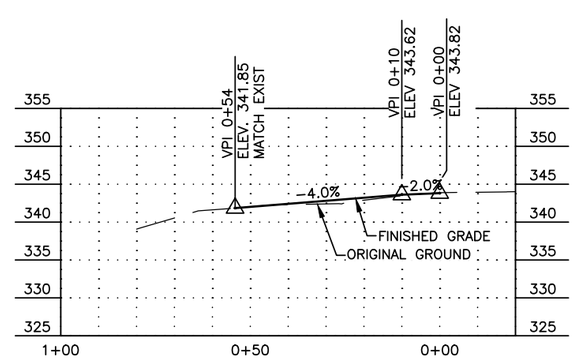
1552+99 RT
S SUNSHINE LN



1556+94 RT



1554+57 RT



1563+65 LT

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
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AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99 REHABILITATION

APPROACH PROFILES

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DATE/TIME 6/22/2017 11:04 AM | LAYOUT | LAYOUT1 | DESIGNED -- | CHECKED -- | DRAFTED --

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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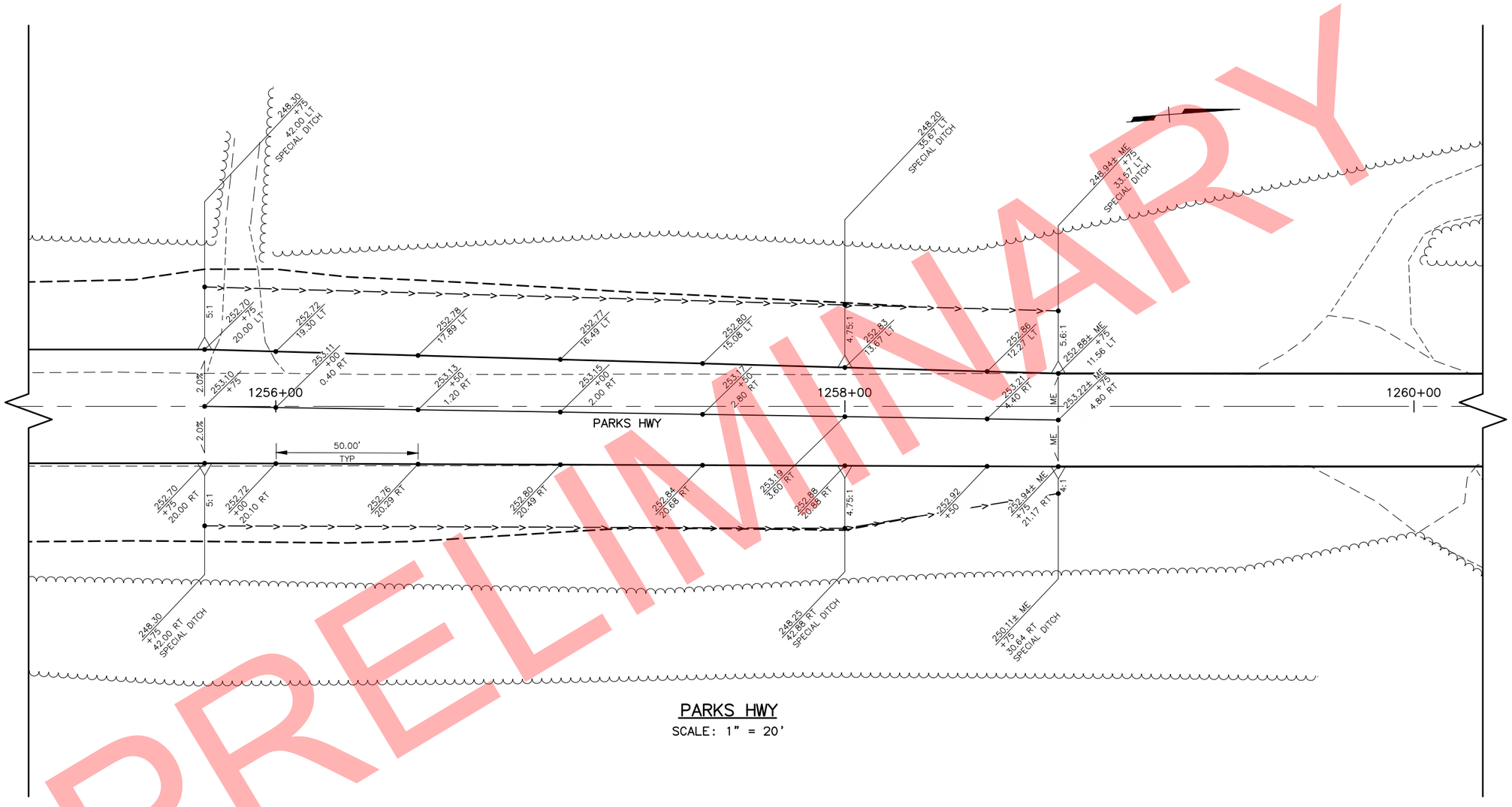

PARKS HWY

SCALE: 1" = 20'

PRELIMINARY

STATE OF ALASKA
★ 49TH ★
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99 REHABILITATION

GRADING PLAN

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
6/22/2017 1:04 PM	G1-G8	--	--	--

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NO.	DATE	REVISION

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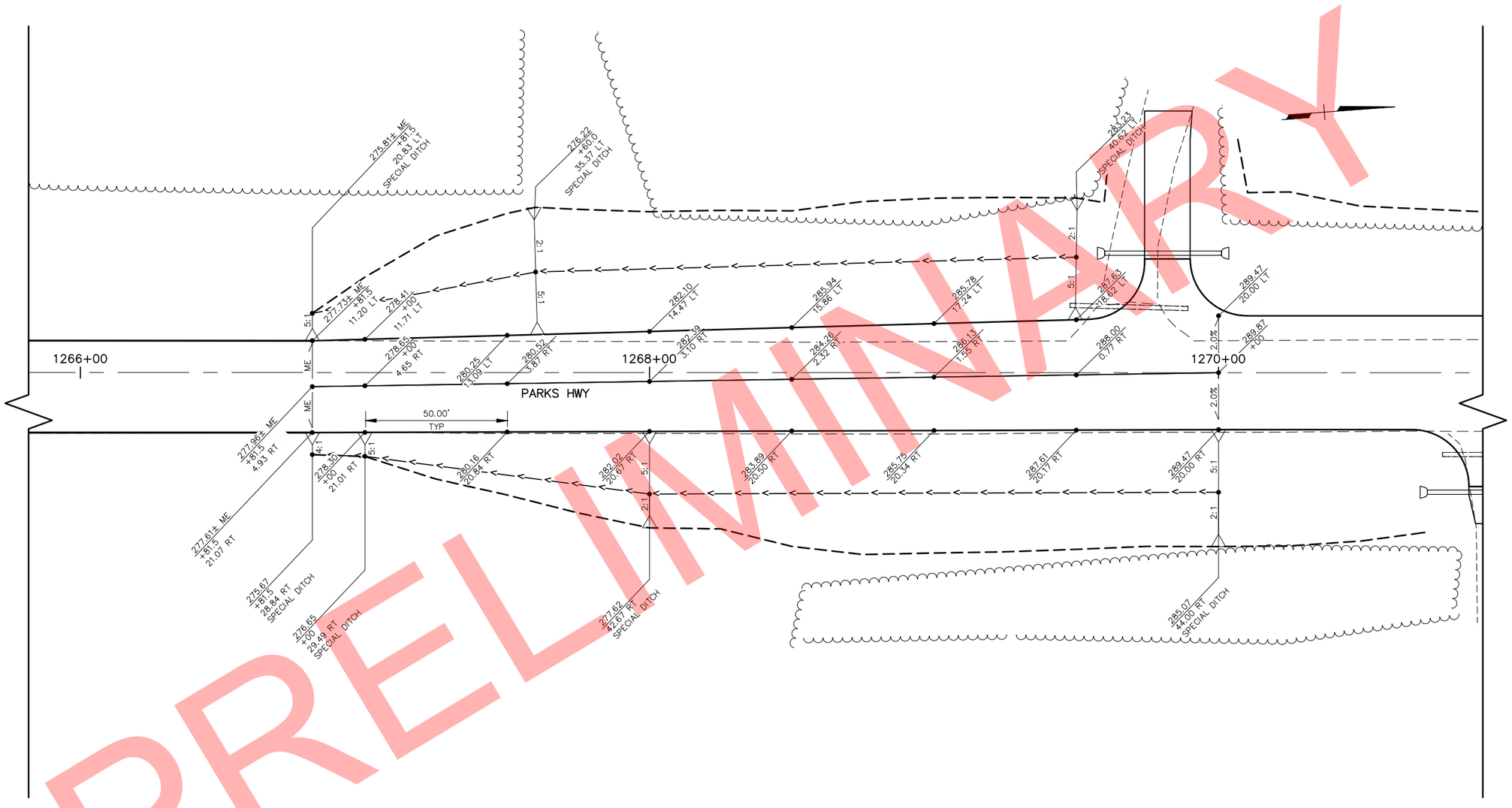
ALASKA	0A41032/Z561770000	2017	G2	G7



PARKS HWY

SCALE: 1" = 20'

PRELIMINARY

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49TH
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PARKS HWY: MP 90-99 REHABILITATION

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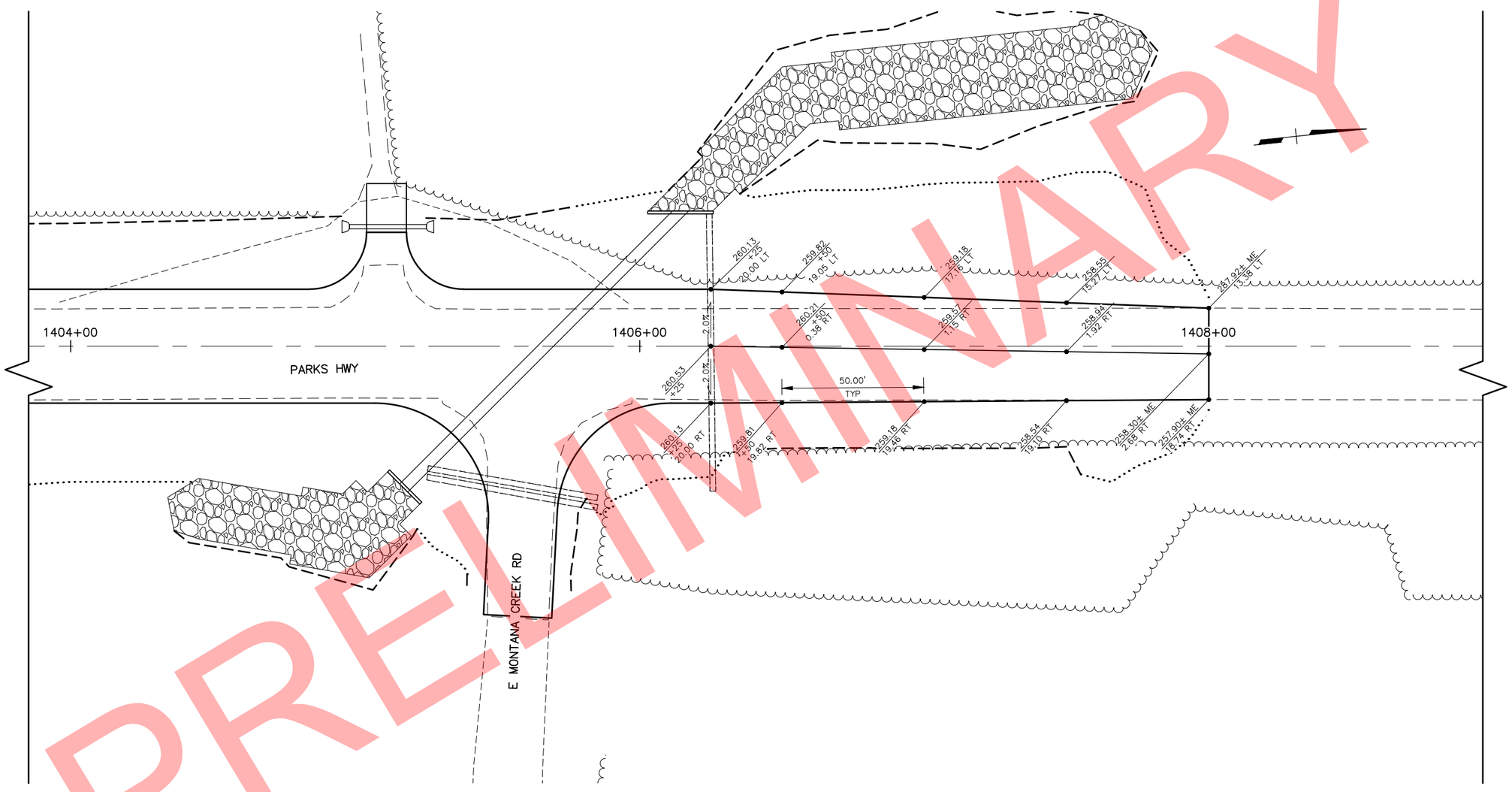

PARKS HWY AT E MONTANA CREEK RD

SCALE: 1" = 20'

PRELIMINARY

STATE OF ALASKA
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PARKS HWY: MP 90-99 REHABILITATION

GRADING PLAN

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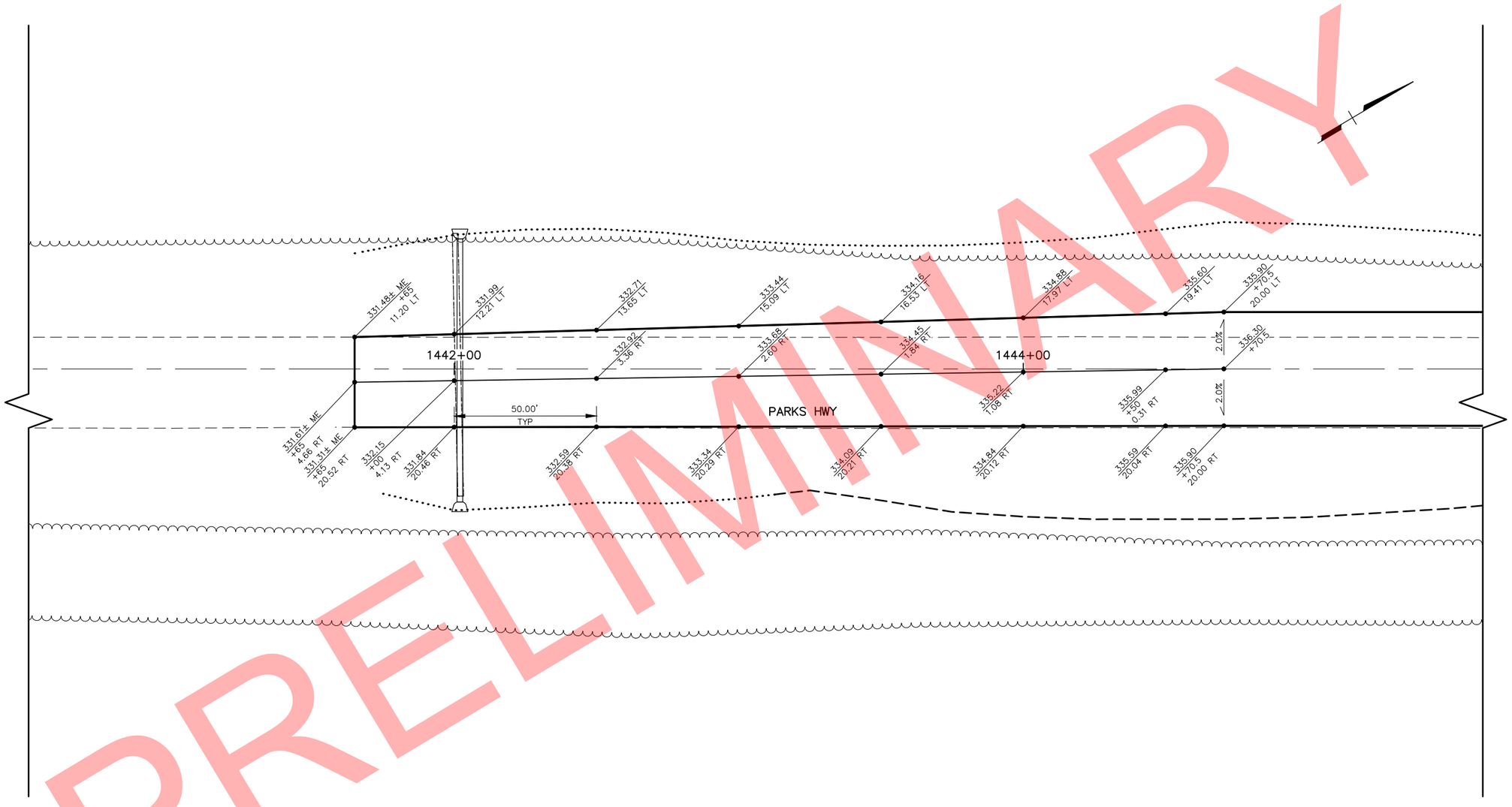

PARKS HWY

SCALE: 1" = 20'

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PARKS HWY: MP 90-99 REHABILITATION

GRADING PLAN

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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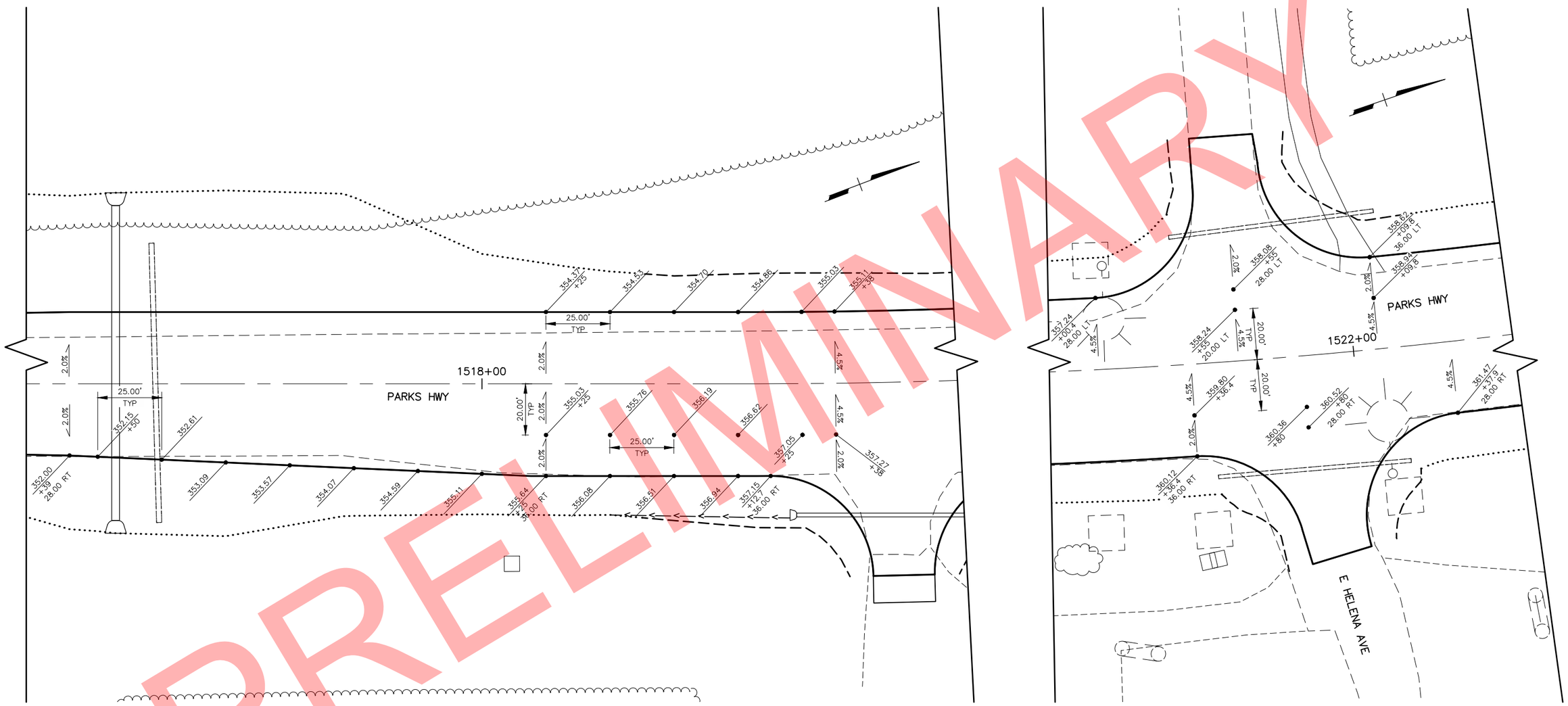

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STATE OF ALASKA
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PARKS HWY: MP 90-99 REHABILITATION

GRADING PLAN

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NO.	DATE	REVISION

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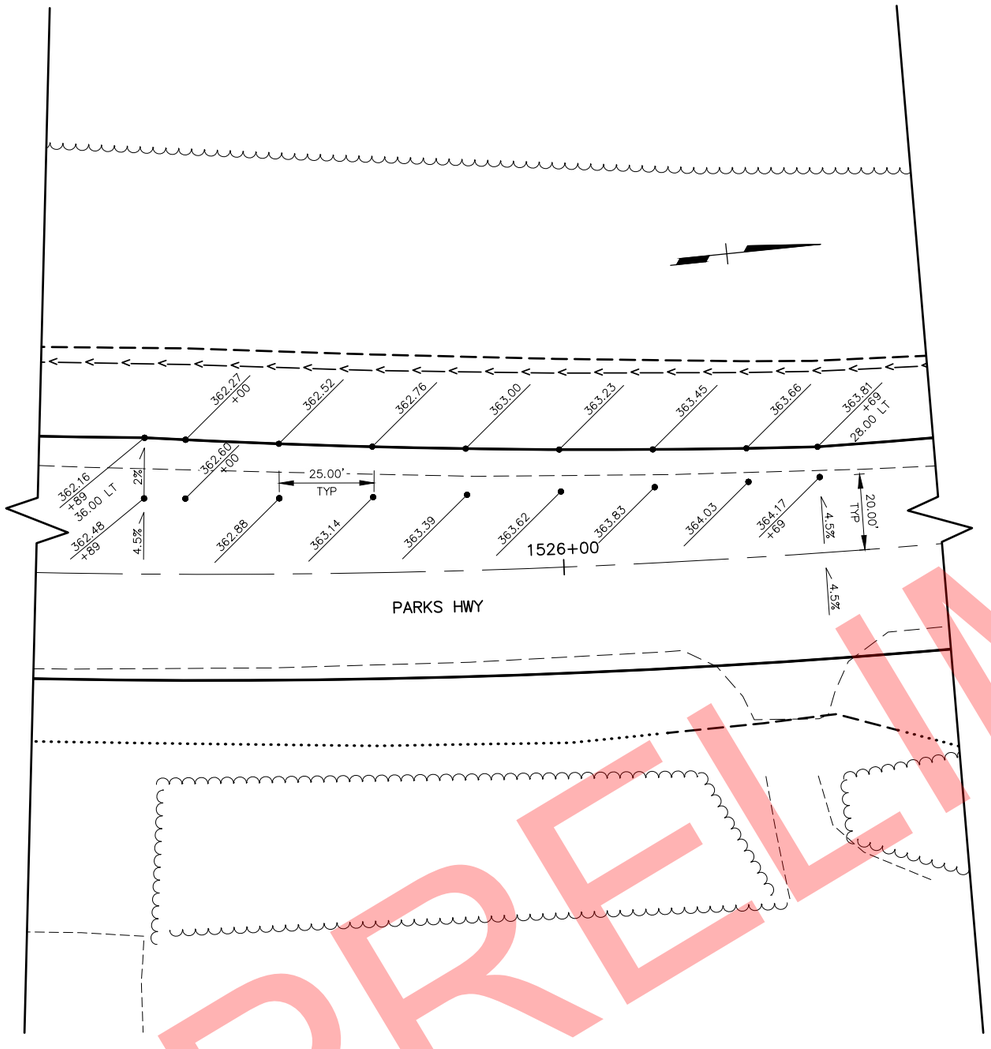

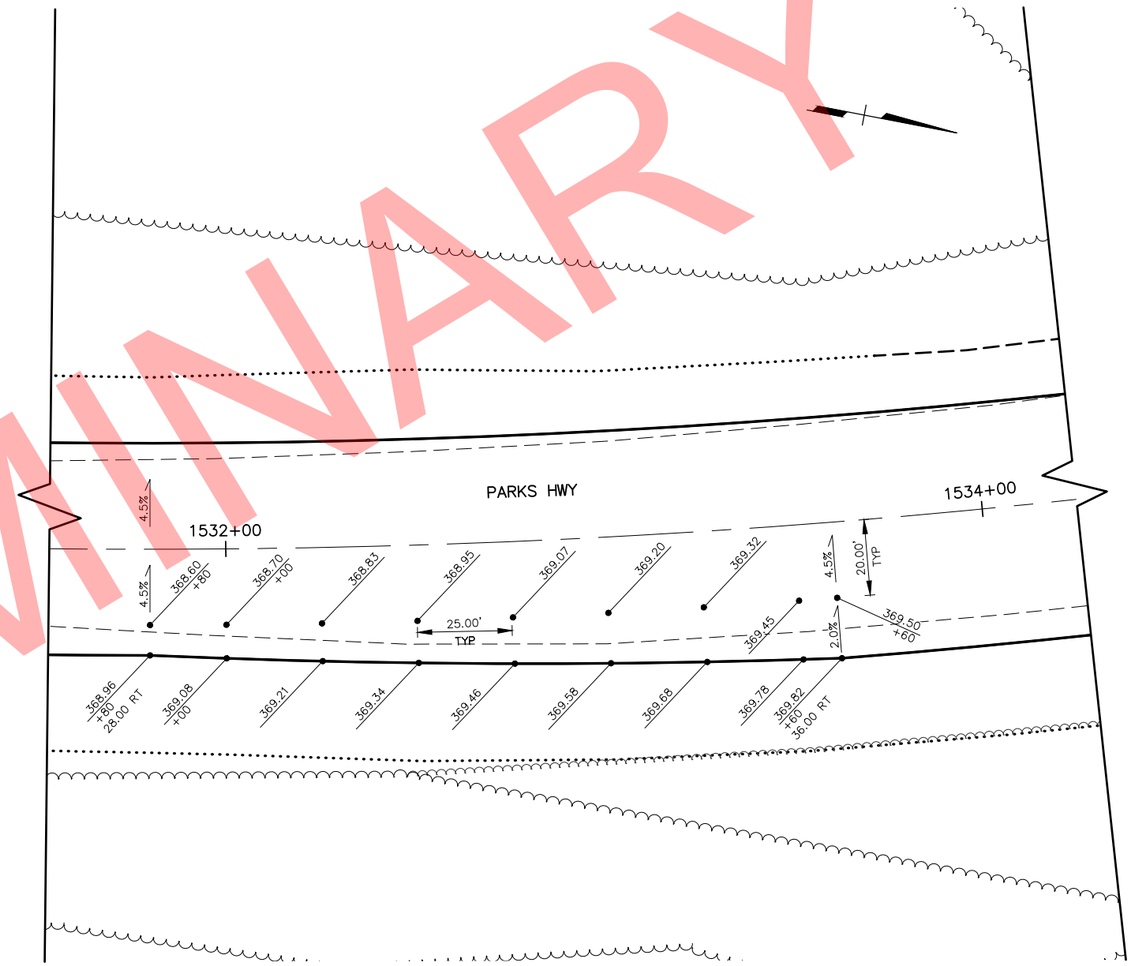

PRELIMINARY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90–99 REHABILITATION

GRADING PLAN

STATE OF ALASKA 49TH
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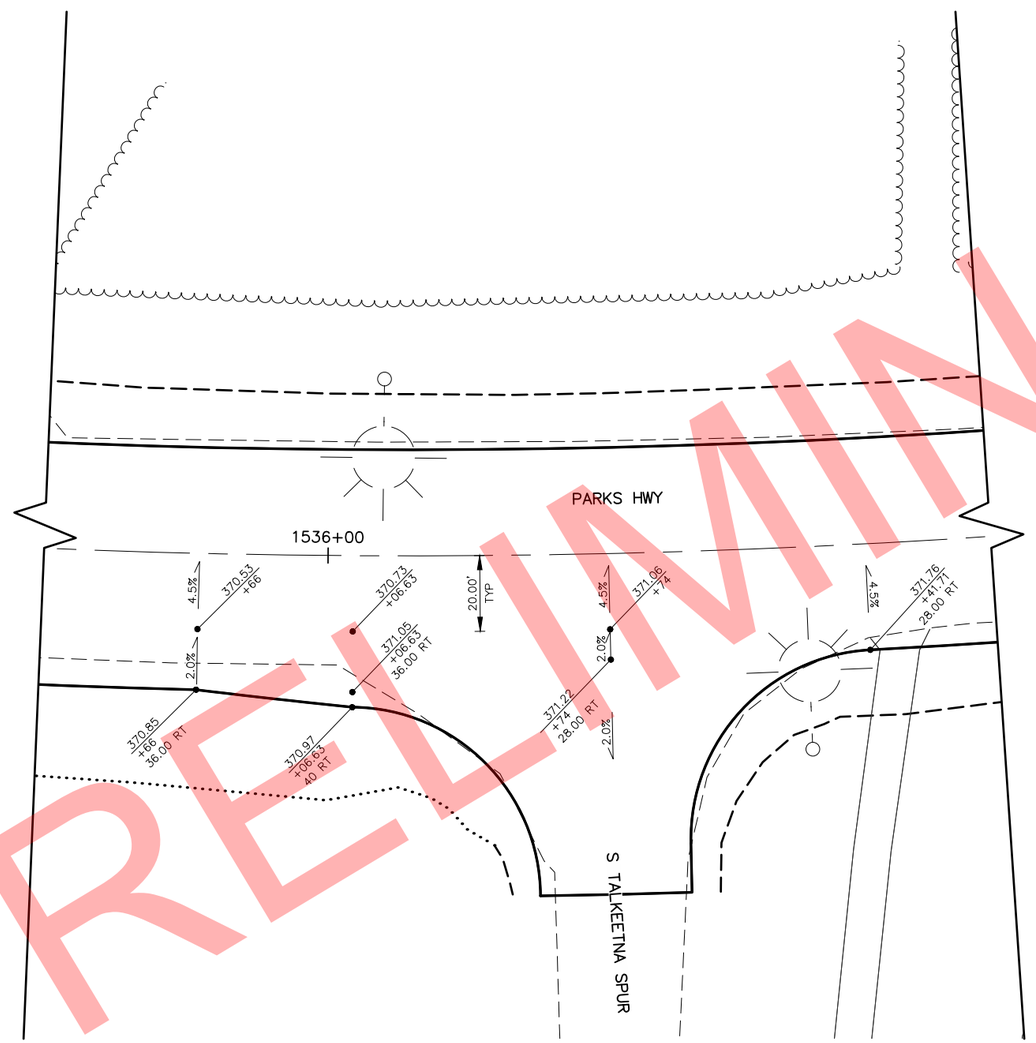
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	G7	G7



PARKS HWY AT S TALKEETNA SPUR

SCALE: 1" = 20'

PRELIMINARY

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49TH
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NO.	DATE	REVISION
		04/11/2014 CENTRAL REGION DETAIL

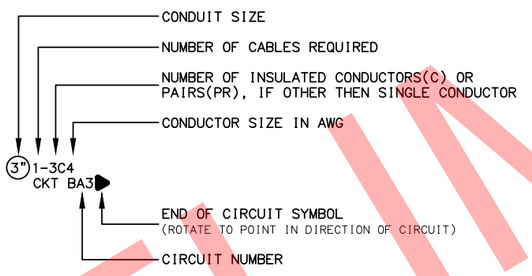
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	H1	H18

SYMBOL LEGEND

EXISTING	PROPOSED	
		LOAD CENTER
		TRAFFIC CONTROLLER
		BEACON CONTROLLER
##	##	TYPE 1A JUNCTION BOX
##	##	TYPE II JUNCTION BOX
##	##	TYPE III JUNCTION BOX
##	##	TYPE IV JUNCTION BOX
		ELECTROLIER
HT#	HT#	HIGHTOWER
##	##	SIGNAL POLE WITH MASTARM
		PEDESTRIAN PUSH BUTTON
##	##	PEDESTRIAN SIGNAL
		VEHICULAR SIGNAL
		VEHICULAR SIGNAL LEFT
		VEHICULAR SIGNAL RIGHT
A	A	OPTICAL DETECTOR
GPS	GPS	GPS DETECTOR
CAM	CAM	CAMARA DETECTOR
RAD	RAD	RADAR DETECTOR
###	###	LOOP DETECTOR
		ANTENNA, YAGI OR OMNI
A R Y	A R Y	MASTARM BEACON
		RURAL BEACON
		SCHOOL ZONE BEACON
		LOOP DETECTOR CONDUIT
		SIGNAL CONDUIT
		LIGHTING CONDUIT
		SIGNAL & LIGHTING CONDUIT
		CONDUIT BORING
2"	2"	CONDUIT SIZE IN INCHES
F/O #	F/O #	FIBER OPTIC VAULT
I/C	I/C	INTERCONNECT
	1	SIGN POST & NUMBER
		PRIVATE SIGN

PAVEMENT MARKING LEGEND

PROPOSED	
	PROJECT CENTERLINE
8"W	8" WHITE SOLID STRIPE
4"W	4" WHITE SOLID STRIPE
4"W SKIP	4" WHITE SKIP STRIPE 10' STRIPES AND 30' SPACES
8"W GUIDE SKIP	8" WHITE LANE GUIDE SKIP LANE CONTINUATION OR TURN SKIP 1' STRIPES AND 3' SPACES
8"Y	8" YELLOW SOLID STRIPE
4"Y	4" YELLOW SOLID STRIPE
4"Y SKIP	4" YELLOW SKIP STRIPE 10' STRIPES AND 30' SPACES
+20	STRIPING CHANGE STATION INTERVAL
24"W (TYP)	2' CROSSWALK OR STOPBAR
10'	LADDER CROSSWALK LAYOUT 2' WIDE RUNGS WITH 2' SPACES ALIGNED TO AVOID TIRE PATHS
12', (2)-4"Y 3" APART, VARIES, 18"Y @ 45°	TYPICAL PAINTED MEDIAN



ABBREVIATIONS

℄ - CENTERLINE
SIG - SERVICE TO CONTROLLER
INTX - INTERSECTION
INTX L - INTERSECTION LIGHTING
LTG - LIGHTING
PRE 2 - PREEMPTION #
PRE CON 2 - PREEMPTION CONTROLLER #
LC - LOAD CENTER
TC - TRAFFIC CONTROLLER
P1 - TRAFFIC SIGNAL POLE #
PEC - PHOTOELECTRIC CELL
YAGI - DIRECTIONAL ANTENNA
OMNI - OMNI DIRECTIONAL ANTENNA
HEAD - VEHICULAR SIGNAL HEAD
PED B 28 - PEDESTRIAN PUSH BUTTON #
PEDI - PEDESTRIAN SIGNAL HEAD
RMC - RIGID METAL CONDUIT
PE - POLYETHYLENE CONDUIT
LFNC - LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
AWG - AMERICAN WIRE GAUGE
NB - NORTH BOUND
EB - EAST BOUND
SB - SOUTH BOUND
WB - WEST BOUND

SIGNING & STRIPING NOTES:

1. ALL STATION LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.
2. USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN POST TYPES IN THE SIGN SUMMARY SHEETS.
   A. PT MEANS A PERFORATED STEEL TUBE.
   B. T MEANS A SQUARE STEEL TUBE.
   C. P MEANS A ROUND STEEL PIPE.
   D. W MEANS A WIDE FLANGE BEAM.
   E. POPL MEANS A POLE PLATE INSTALLED PER ITS STANDARD DRAWING S-23
3. FABRICATE ALL SIGNS FROM 0.125" THICK ALUMINUM SHEETING, UNLESS STATED ELSEWHERE.
4. FOR SIGNS SUPPORTED BY MULTIPLE POSTS, FABRICATE THE POSTS WITH THEIR TOPS LEVEL WITH ONE ANOTHER.
5. FOR PERFORATED STEEL TUBE SIGNPOSTS, INSTALL THE CONCRETE FOUNDATION OPTION SHOWN ON STANDARD DRAWING S-30.03. TRIM EACH PT POST TO LIMIT THE LENGTH INSERTED INTO THE FOUNDATION TO 12 INCHES.
6. FABRICATE GUIDE SIGNS ACCORDING TO THE SHOP DRAWINGS INCLUDED IN THE APPENDICES OF PART 4, CONTRACT PROVISIONS AND SPECIAL PROVISIONS. TRIM THE CORNERS OF ALL SIGNS TO THE RADIUS SHOWN ON EACH SHOP DRAWING.
7. ERECT NEW SIGNS BEFORE REMOVAL OF EXISTING SIGNS WITH SIMILAR MESSAGE. NOTIFY THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO BEGINNING SIGN REMOVAL AND SALVAGE OR DISPOSAL ACTIVITIES.
8. FOR SIGNS SUPPORTED BY MULTIPLE TUBES OR PIPES, LOCATE THE OUTER POSTS ON MAXIMUM SIX FEET CENTERS. INSTALL ADJACENT WIDE FLANGE POSTS ON MINIMUM EIGHT FEET CENTERS.
9. SELECTIVE AND HAND CLEARING SHALL BE PERFORMED AT THE DISCRETION OF THE ENGINEER, IN ACCORDANCE WITH SECTION 201, UPSTREAM OF ALL SIGN INSTALLATION LOCATIONS TO ACHIEVE MINIMUM SIGN VISIBILITY REQUIREMENTS. IF NOT INCLUDED AS A SEPARATE ITEM, THIS WORK SHALL BE SUBSIDIARY TO THE SIGN INSTALLATION ITEMS AND WORK.
10. FOR ALL FINAL PAVEMENT MARKINGS USE METHYLMETHACRYLATE MATERIALS. LONGITUDINAL MARKINGS SHALL BE INLAID AT 125 MILS, TRANSVERSE AND SYMBOL MARKINGS TO BE INLAID AT 125 MILS, GORE STRIPES SHALL BE SURFACE APPLIED AT 60 MILS.
11. DIMENSIONS REFER TO THE CENTER OF STRIPE AND THE EDGE OF PAVEMENT OR FACE OF CURB WHEN PRESENT.
12. IF THE NEW AND EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER ON THE NEW PAVEMENT.
13. WHERE NEW STRIPING IS TO EXTEND BEYOND PAVING LIMITS, REMOVE EXISTING STRIPING IN ACCORDANCE WITH SUBSECTION 670-3.04 TO THE EXTENT OF STRIPING LIMITS.
14. PROVIDE PASSING DISTANCE MEASUREMENTS FROM THE BOP TO EOP FOR BOTH DIRECTIONS OF TRAVEL IN ACCORDANCE WITH SUBSECTION 642-3.01.

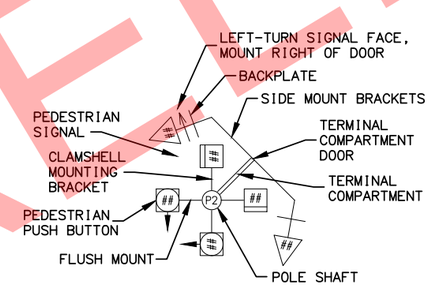
NOTES:

FOUNDATIONS NOTES:

1. STATION & C.L. REFERENCE ARE TO THE CENTER OF THE STRUCTURE, EXCEPT ON LOOPS WHICH ARE TO THE CENTER OF THE TRAILING EDGE OF THE LOOP (EDGE NEAREST INTERSECTION).
2. JUNCTION BOX LOCATIONS APPROXIMATE. LOCATE J-BOXES SO THAT THEY ARE LOCATED OUT OF THE PATHWAY, SIDEWALK, CURB RAMPS, AND DRAINAGE COLLECTION AREAS.
3. INSTALL LOAD CENTER AND TRAFFIC CONTROLLER FOUNDATIONS WITHIN 1-DEGREE OF PLUMB.
4. INSTALL ANCHOR BOLTS IN CAST FOUNDATIONS TO BE WITHIN 1:40 OF PLUMB.
5. TOPSOIL AND SEED ANY DISTURBED AREAS.

SIGNAL SYSTEM NOTES:

1. FURNISH THE SIGNAL AND LUMINAIRE MASTARM LENGTHS AND DIMENSIONS SPECIFIED ON THE POLE ELEVATIONS.
2. INSTALL DEVICES SUCH THAT THE DIMENSIONS SHOWN TO THE BOTTOM OF THE DEVICES ON THE POLE ELEVATIONS ARE MINIMUMS. VERTICAL DIMENSIONS TO SIGNAL HEADS ARE TO BOTTOM OF THE BACK PLATE.
3. INSTALL MAST ARMS PERPENDICULAR TO THE ROADWAY CENTERLINE. ACCEPTABLE VARIANCE IS +/- 1-DEGREE.
4. SALVAGE SIGNAL POLE ASSEMBLIES, SIGNS, SIGNAL FACES, AND LUMINARIES AND DELIVER TO MAINTENANCE AND OPERATIONS WITHIN 48-HOURS OF DECOMMISSIONING. COMPONENTS DAMAGED WHILE IN THE CONTRACTORS CUSTODY MUST BE REPLACED AT THE CONTRACTORS EXPENSE. REMOVE AND DISPOSE OF FOUNDATIONS.
5. SALVAGE EXISTING CONTROLLER CABINET AFTER NEW CONTROLLER CABINET IS IN SERVICE AND DELIVER TO MAINTENANCE AND OPERATIONS WITHIN 48-HOURS OF DECOMMISSIONING.
6. VEHICLE SIGNALS AND PEDESTRIAN SIGNALS SHALL BE LED MODULES.
7. REMOVE ABANDONED OR UNUSED TRAFFIC JUNCTION BOXES UNLESS OTHERWISE NOTED.
8. NEW SIGNAL HEADS THAT ARE MOUNTED BUT NOT IN OPERATION SHALL BE COVERED WITH A COMMERCIALLY AVAILABLE SIGNAL-SHIRT. EACH SIGNAL SHIRT SHALL FEATURE ELASTICIZED OPENINGS THAT FIT OVER THE VISORS AND AT LEAST TWO STRAPS TO SECURE IT TO THE SIGNAL. PROVIDE SHIRTS WITH A LEGEND THAT READS "OUT OF SERVICE" AND A CENTER SECTION THAT ALLOWS AN OPERATOR TO SEE THE INDICATIONS DURING SYSTEM TESTS.
9. SIGNAL HEADS ARE TO BE LOCATED PER FIGURE 4D-100, TYPICAL SIGNAL HEAD LOCATIONS, PER THE ALASKA TRAFFIC MANUAL. ACCEPTABLE VARIANCE IS +/- 1-FOOT.
10. AIM SIGNALS PER TABLE 660-2, THROUGH-SIGNAL AIMING POINT, OF THE SPECIAL PROVISIONS. SIGNALS SHALL ALSO BE AIMED SO AS NOT TO BE VISIBLE FROM SIDE STREET TRAFFIC. ACCEPTABLE VARIANCE IS +/- 5 DEGREES.
11. EXISTING CIRCUITS LISTED ON THE LOAD CENTER SUMMARY AND PLAN SHEETS WERE OBTAINED FROM AS-BUILT INFORMATION AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO WORK INVOLVING THOSE CIRCUITS.



POLE SHAFT LEGEND

CALL BEFORE YOU DIG!

CONTRACTOR SHALL CALL A MINIMUM OF 3 DAYS IN ADVANCE OF CONSTRUCTION

ALASKA DIGLINE....907-278-3121 OR 800-478-3121

CALL OR GO TO WWW.AKONECALL.COM/STATEWIDE.HTM FOR MEMBER LIST OF WHO WILL BE NOTIFIED

STATE OF ALASKA
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PARKS HWY: MP 90-99 REHABILITATION

TRAFFIC LEGEND AND NOTES

PRELIMINARY

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-FS&E\CAD\DRAWINGS\13032_10_H01.DWG BY byarmak
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NO.	DATE	REVISION

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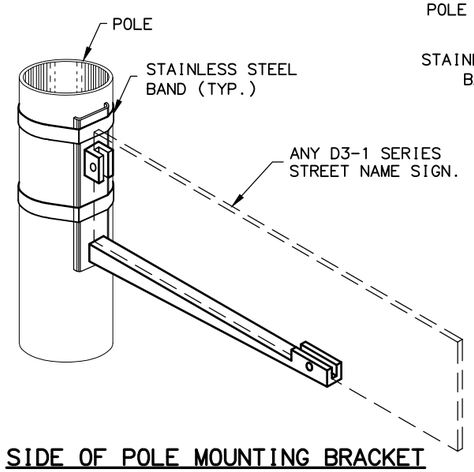
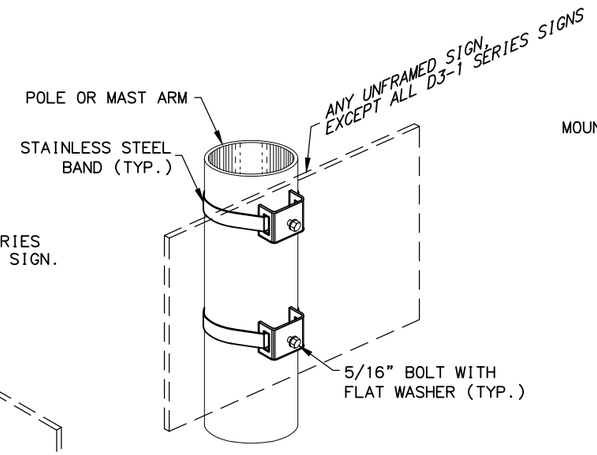
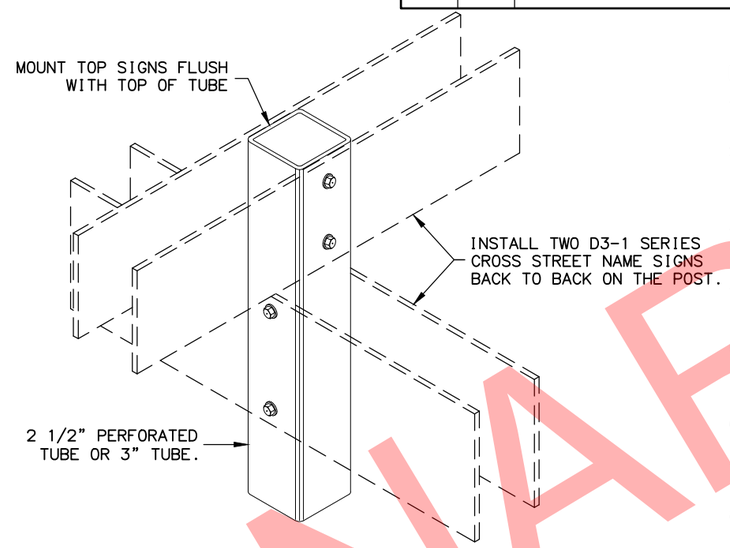
ALASKA	0A41032/Z561770000	2017	H2	H18



SIDE OF POLE MOUNTING BRACKET



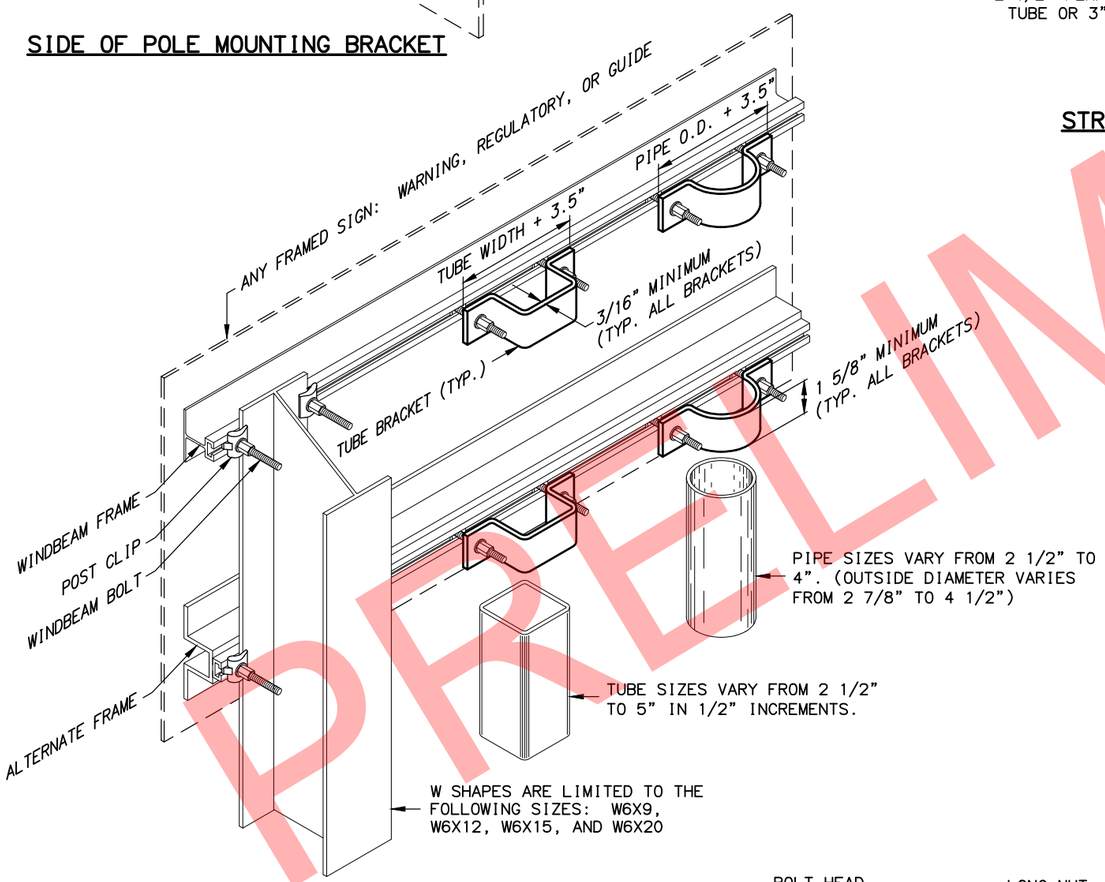
SADDLE BRACKETS



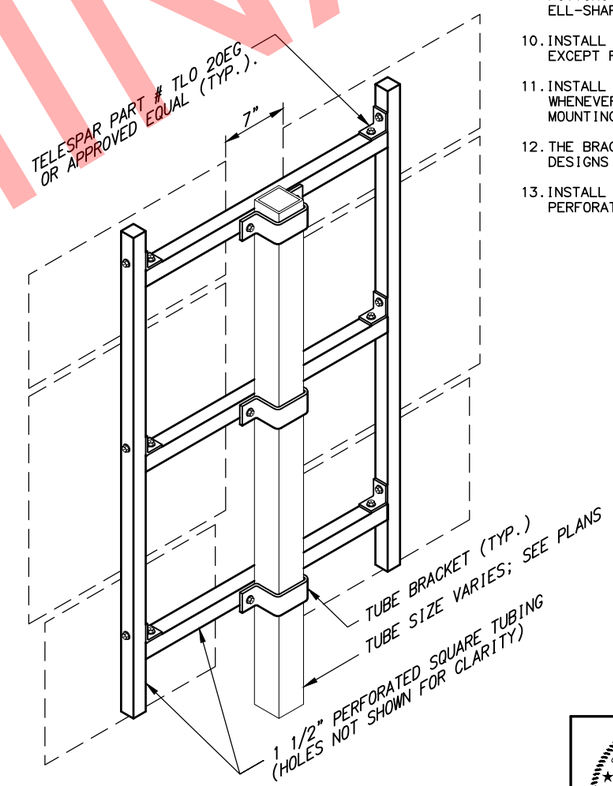
STREET NAME SIGN INSTALLATION

NOTES:

1. EXCEPT FOR POLES AND MAST ARMS, ONLY USE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
2. ATTACH SIGNS, FRAMED AND UNFRAMED TO THEIR SUPPORTS WITH ZINC PLATED 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PERFORATED TUBES WITH ACCESSORY DRIVE RIVETS AND TO SADDLES WITH 5/16" BOLTS.
3. BOLT UNFRAMED SIGNS DIRECTLY TO TUBES IN TWO LOCATIONS, NEAR TOP AND NEAR BOTTOM OF MATING SURFACE. ATTACH THEM TO POLES AND MAST ARMS WITH TWO SADDLES.
4. ATTACH BRACKETS TO POLES AND MAST ARMS WITH DOUBLE WRAPS OF 3/4" WIDE BY 0.020" THICK STAINLESS STEEL BANDING MATERIAL. TIGHTEN EACH BAND UNTIL IT STOPS MOVING THROUGH THE BUCKLE.
5. ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES, AND A BRACKET WITH SQUARE CORNERS ON TUBES.
6. THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
7. ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL.
8. ATTACH FRAMED SIGNS TO POLES AND MAST ARMS USING POLE PLATES INSTALLED ACCORDING TO STANDARD DRAWING S-23.00
9. FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
10. INSTALL THE TOP EDGE OF SIGNS 1" ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
11. INSTALL THE TOP EDGE OF SIGNS 3" BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
12. THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
13. INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.

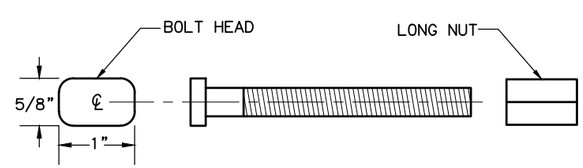


FRAMED SIGN ATTACHMENT BRACKETS



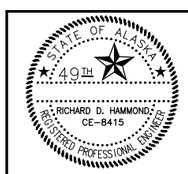
ROUTE MARKER TREE

FASTENER SPECIFICATION TABLE			
FASTENERS		STEEL	STAINLESS STEEL
BOLTS		ASTM A 307	ASTM F 593
NUTS	REGULAR	ASTM A 563	ASTM F 594
	LOCK		
WASHERS		ASTM A 36	ASTM A 480
POST CLIPS			



3/8" WINDBEAM BOLT AND LONG NUT

PRELIMINARY



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SIGN ATTACHMENT DETAILS

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_H02.DWG BY byarmak | DATE/TIME 5/24/2017 3:02 PM | LAYOUT H27 | DESIGNED -- | CHECKED -- | JMF | DRAFTED --

NO.	DATE	REVISION

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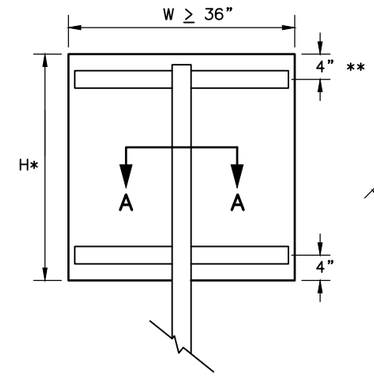
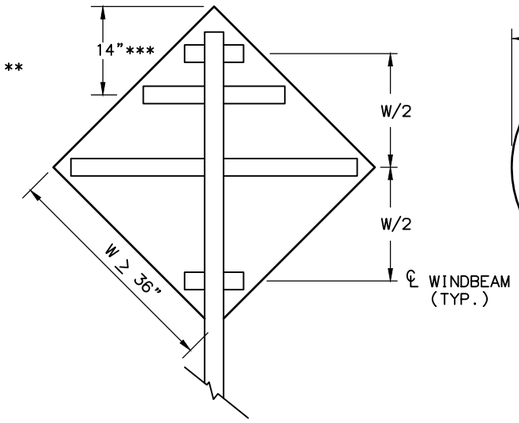
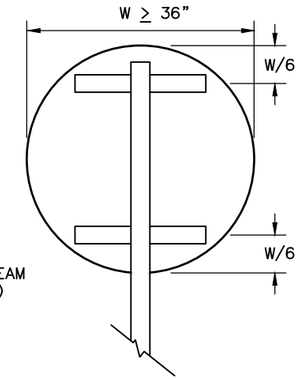
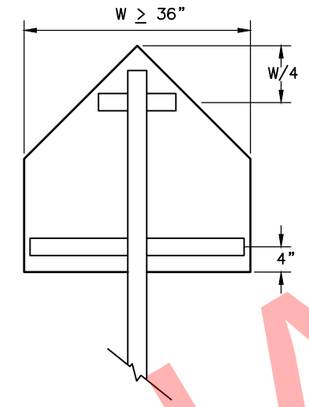


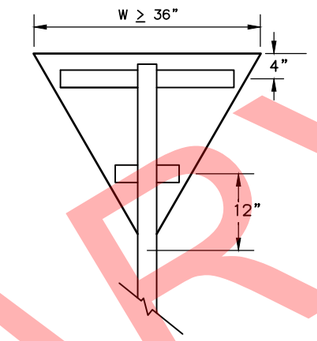
RECTANGLES AND TRAPEZOIDS





ROUNDS AND OCTAGONS





* WHEN H > 42 INCHES, INSTALL A 3RD WINDBEAM CENTERED ON THE SIGN.

** FOR S5-1 SIGNS MOUNTED ON FLASHING BEACON POSTS, USE A 10" OFFSET. OTHERWISE, USE 4".

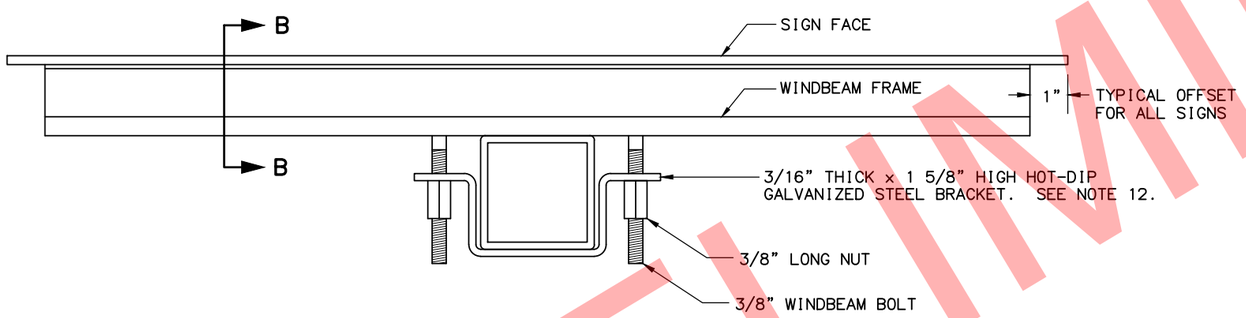
*** FOR WARNING SIGNS MOUNTED ON FLASHING BEACON POSTS, USE THE 14" OFFSET. OTHERWISE, USE W/2.

WINDBEAM LOCATIONS FOR EACH SIGN SHAPE

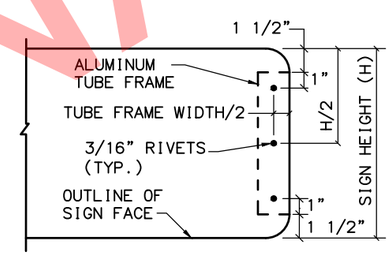
ELEVATION VIEW

NOTES:

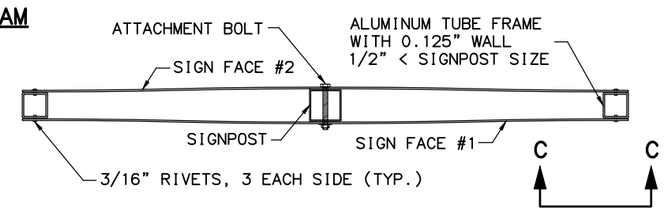
1. EXCEPT FOR POLES AND MAST ARMS, ONLY USE SQUARE STEEL TUBES TO SUPPORT SIGNS MOUNTED ON SINGLE POSTS.
2. INSTALL WINDBEAM OR ZEE SHAPED FRAMING MEMBERS ON DIAMOND SHAPED SIGNS 36 INCHES AND LONGER ON A SIDE AND ON OTHER SIGNS 36 INCHES WIDE AND WIDER.
3. IN HIGH WIND AREAS, THE PLANS MAY REQUIRE SIGNS SMALLER THAN THOSE LISTED IN NOTE 2 BE FRAMED AS SHOWN HERE IN.
4. THIS DRAWING DEPICTS THE WINDBEAM FRAMING AND ATTACHMENT SYSTEM. ATTACH SIGNS FRAMED WITH ZEE SHAPED FRAMING ACCORDING TO REGIONAL DRAWING "SIGN ATTACHMENT DETAILS", USING "U" SHAPED BRACKETS AND TWO BOLTS WITH NUTS.
5. THE ENGINEER MAY APPROVE OTHER FRAMING MEMBERS. SUBMIT DOCUMENTS THAT DETAIL THE FRAME'S CROSS SECTION AND STRENGTH, AND METHOD OF ATTACHING THE FRAME TO A POST.
6. USE FRAMING MEMBERS MADE FROM ALUMINUM ALLOY 6061-T6.
7. EACH FRAMING MEMBER SHALL BE ONE CONTINUOUS PIECE.
8. ATTACH FRAMING MEMBERS TO THE SIGN PANELS WITH RIVETS OR AN ENGINEER APPROVED, DOUBLE SIDED, HIGH STRENGTH, ADHESIVE TAPE.
9. WITH THE ADHESIVE TAPE, INSTALL TWO RIVETS IN BOTH ENDS OF EACH FRAMING MEMBER, AND ATTACH THE FRAMING MEMBERS TO THE SIGN PANELS ACCORDING TO THE TAPE MANUFACTURER'S WRITTEN INSTRUCTIONS, INCLUDING:
   A. THE CLEANING AND HANDLING OF THE SIGN PANELS AND FRAMING MEMBERS.
   B. THE APPLICATION OF THE ADHESIVE TAPE.
10. WHEN RIVETS ARE USED TO ATTACH FRAMING MEMBERS, INSTALL 2 RIVETS IN EACH END AND THE BALANCE ON 8" MAXIMUM CENTERS.
11. USE 3/16" DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061-T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061-T43 FOR HOT DRIVEN RIVETS.
12. THE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
13. USE ONE 2.5" P.T. FOR ALL STOP SIGNS WITHIN THE MOA, AND ALL POSTS WITH A SINGLE SIGN PANEL THAT ARE 30" WIDE OR LESS. ALL OTHER STOP SIGN POSTS OUTSIDE THE MOA SHALL BE ON A 3" TUBE.



SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM

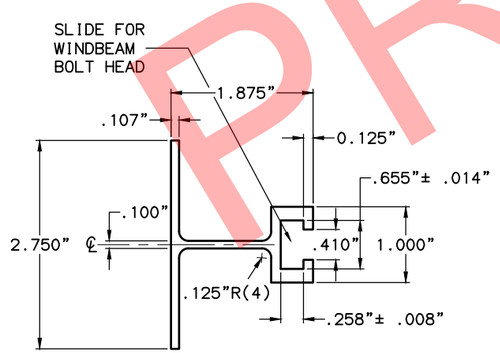


VIEW C - C

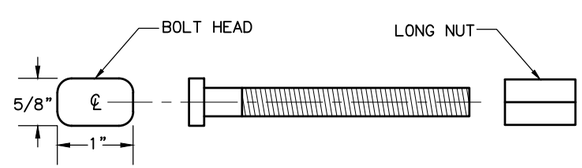


D3-1 STREET NAME SIGN FRAMING DETAIL

PLAN VIEW



SECTION B - B WINDBEAM CROSS SECTION



3/8" WINDBEAM BOLT AND LONG NUT

THIS SHEET SUPERSEDES ONLY:
THE LIGHT SIGN FRAMING DETAILS AND SIGN POST SPACING NOTE 2.B. ON STD. DWG. S-00.11, AND ENTIRELY REPLACES STD. DWG. S-01.00

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PARKS HWY: MP 90-99 REHABILITATION

LIGHT SIGN FRAMING AND ATTACHMENT DETAILS

STATE OF ALASKA 49TH RICHARD D. HAMMOND CE-8415 REGISTERED PROFESSIONAL ENGINEER

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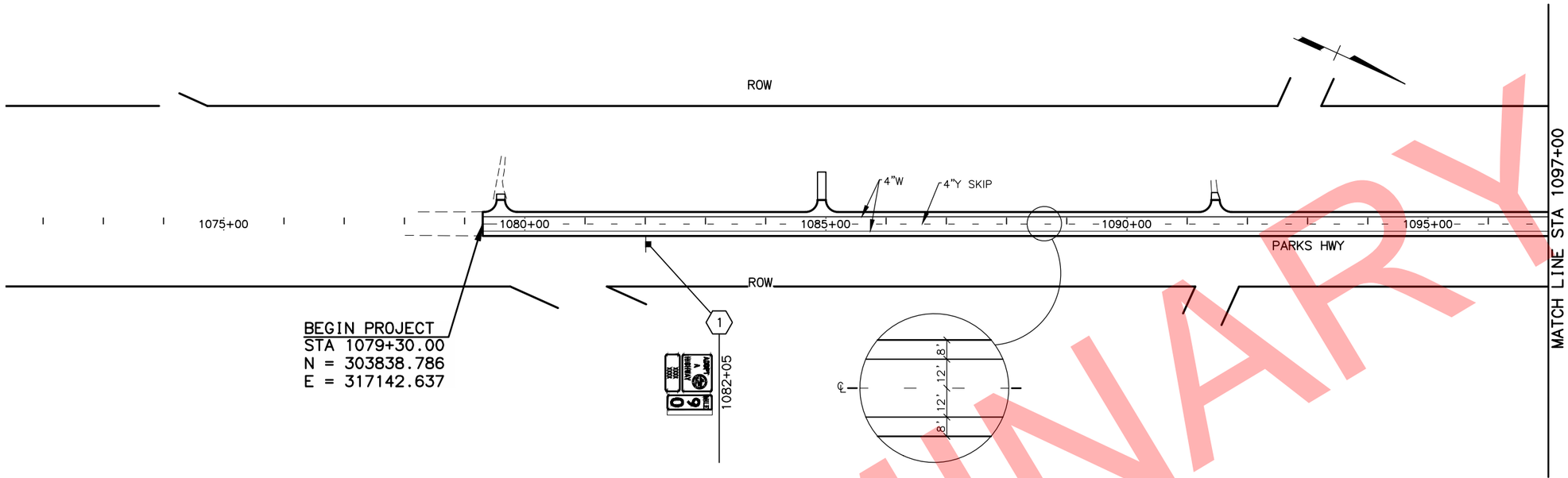
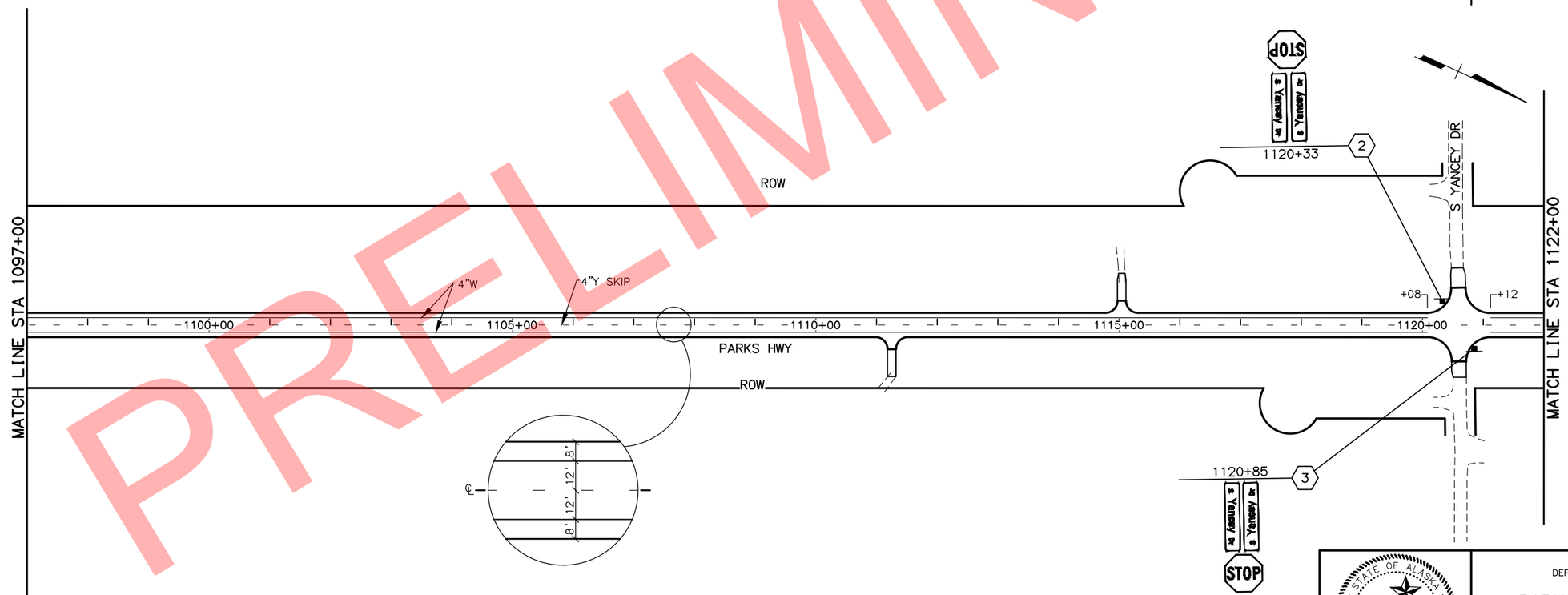
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	H4	H18





PRELIMINARY

STATE OF ALASKA
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REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90–99 REHABILITATION

SIGNING AND STRIPING
STA 1079+30 TO 1122+00

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DATE/TIME 5/24/2017 3:08 PM
LAYOUT LAYOUT1
DESIGNED DAD
CHECKED RDH
DRAFTED CDB

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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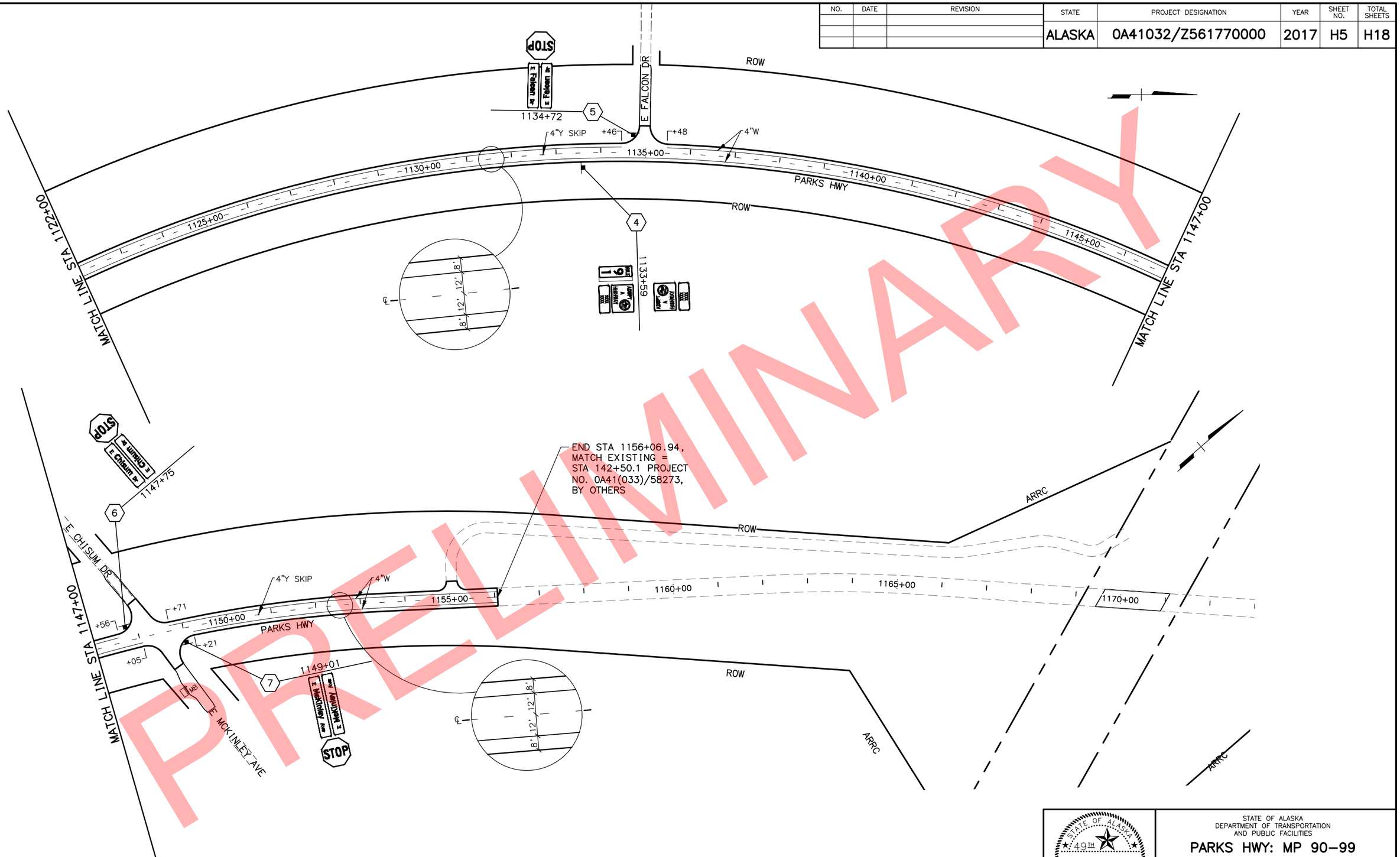

PRELIMINARY

STATE OF ALASKA
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REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90–99 REHABILITATION

SIGNING AND STRIPING
STA 1122+00 TO 1156+06.9

DATE/TIME | 5/24/2017 3:08 PM | LAYOUT | LAYOUT1 | DESIGNED | DAD | CHECKED | RDH | DRAFTED | CDB

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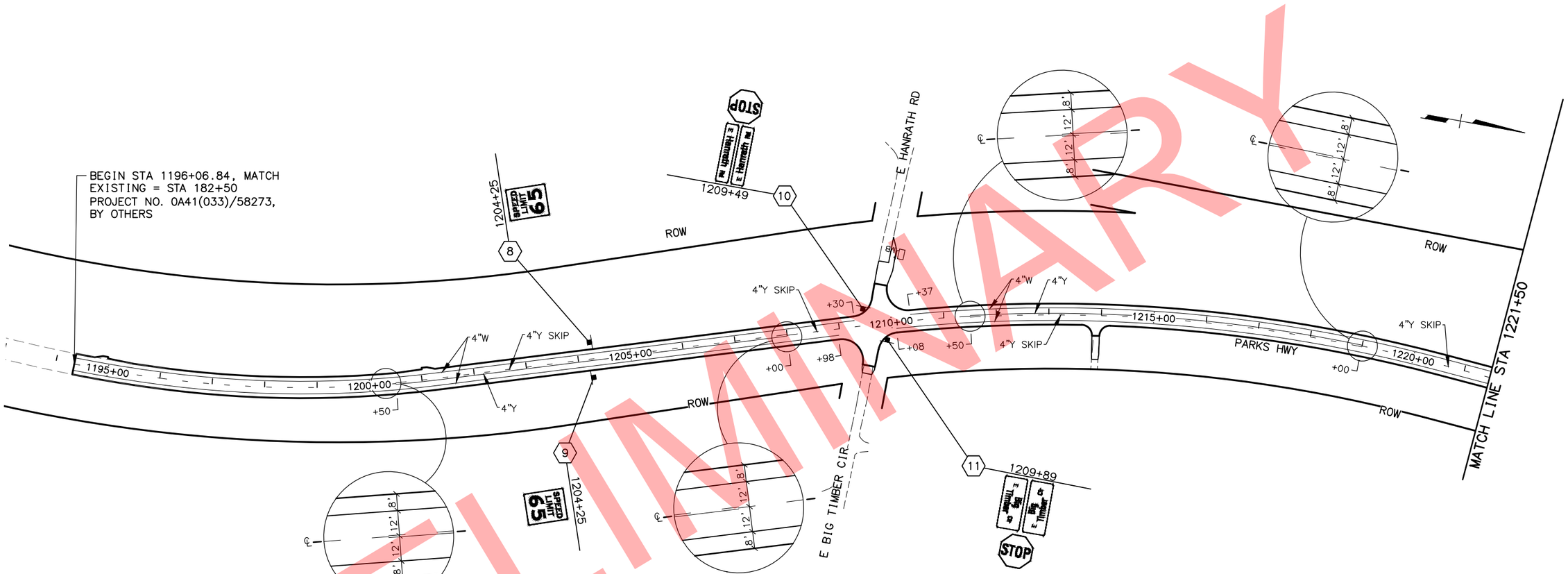
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	H6	H18



PRELIMINARY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90–99 REHABILITATION

SIGNING AND STRIPING
STA 1196+06.8 TO 1221+50

STATE OF ALASKA 49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
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ANCHORAGE, AK 99503
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DATE/TIME	5/24/2017 3:08 PM	LAYOUT	LAYOUT1	DESIGNED	DAD	CHECKED	RDH	DRAFTED	CDB

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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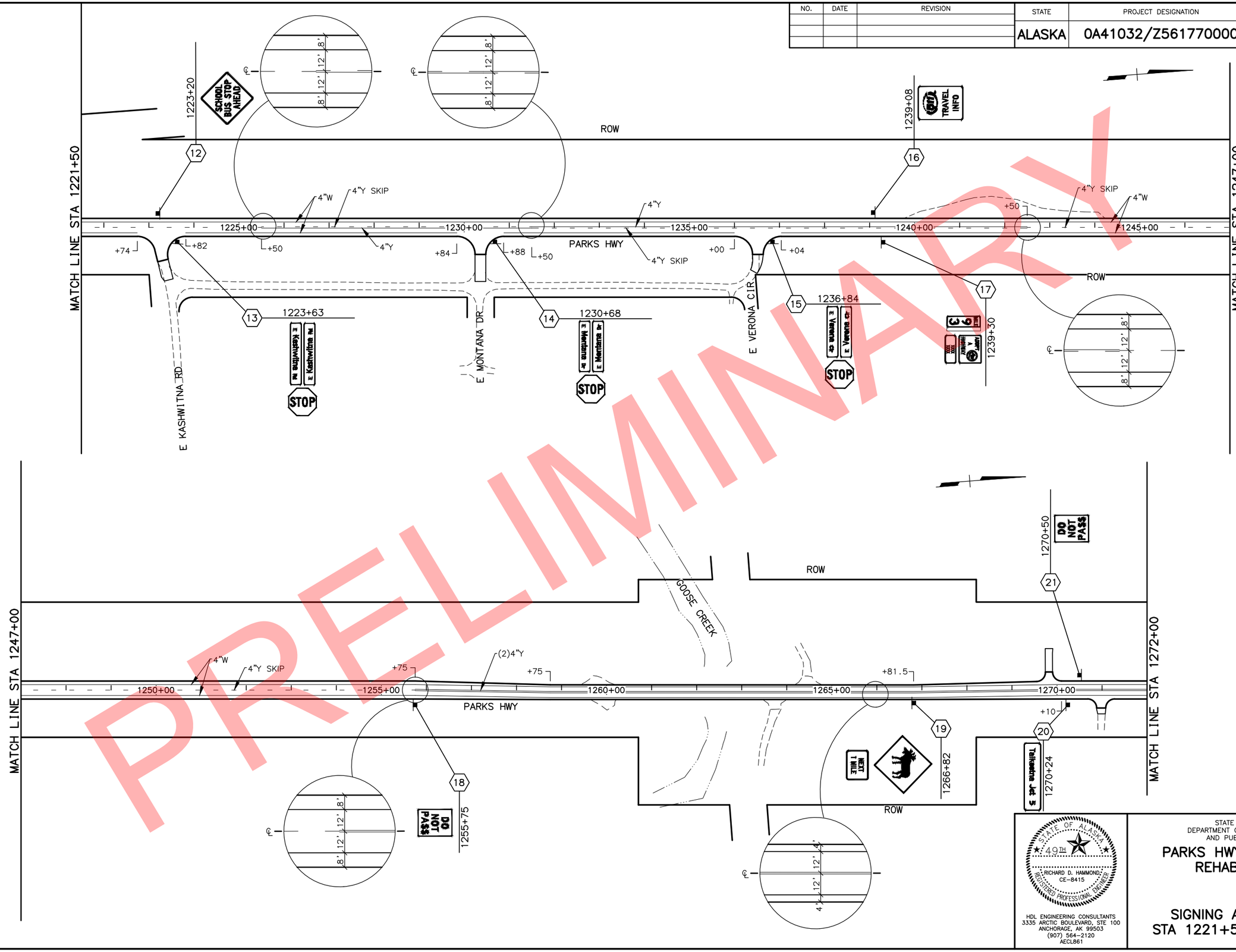

PRELIMINARY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90–99 REHABILITATION

SIGNING AND STRIPING
STA 1221+50 TO 1272+00

STATE OF ALASKA 49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
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DATE/TIME	DESIGNED	CHECKED	DRAFTED
5/24/2017 3:08 PM	DAD	RDH	CDB

LAYOUT	LAYOUT1

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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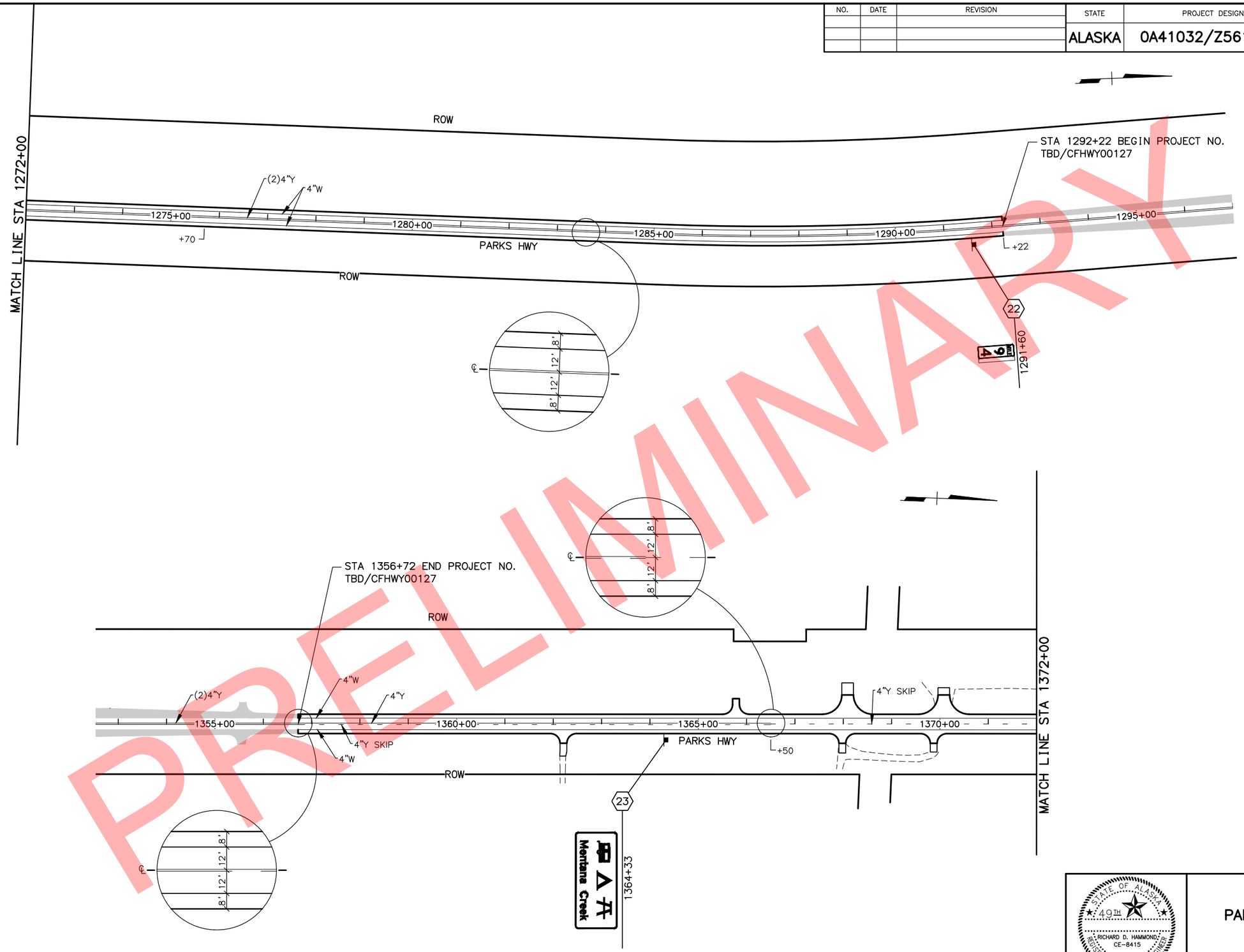

PRELIMINARY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90–99 REHABILITATION

SIGNING AND STRIPING STA 1272+00 TO 1372+00

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
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AECL861

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LAYOUT LAYOUT1
DESIGNED DAD
CHECKED RDH
DRAFTED CDB

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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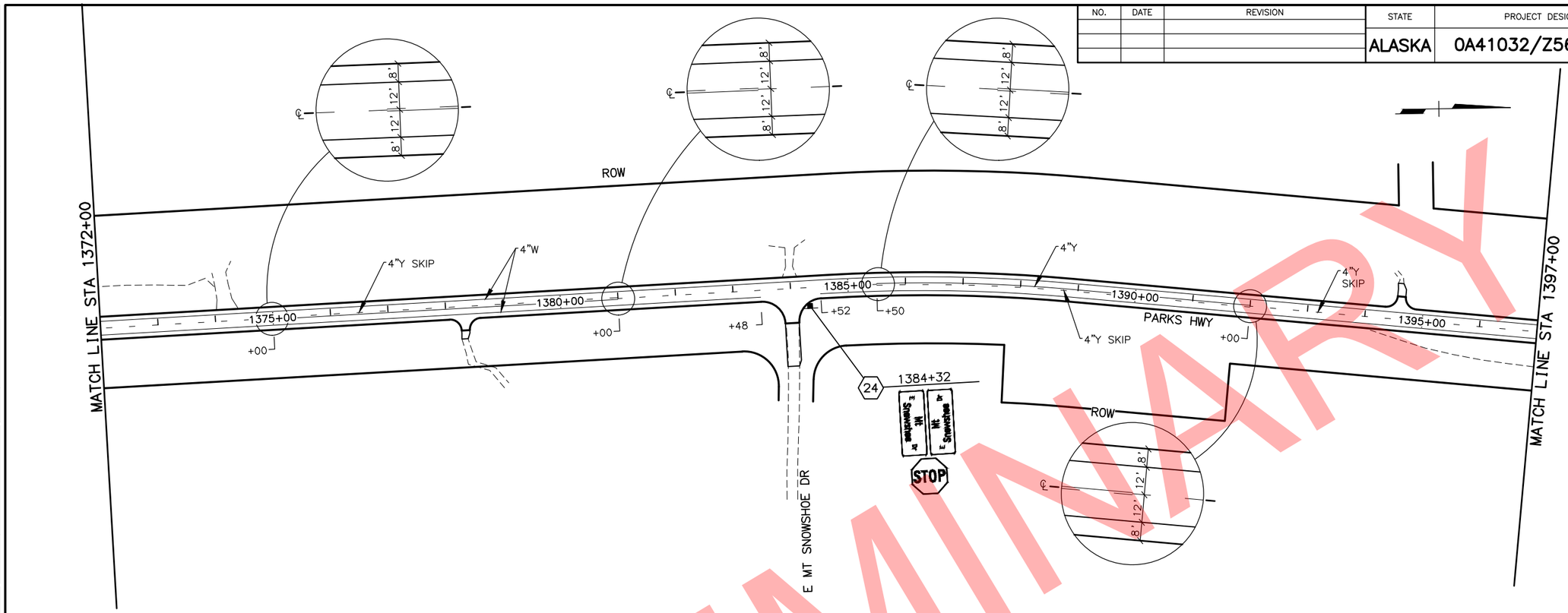

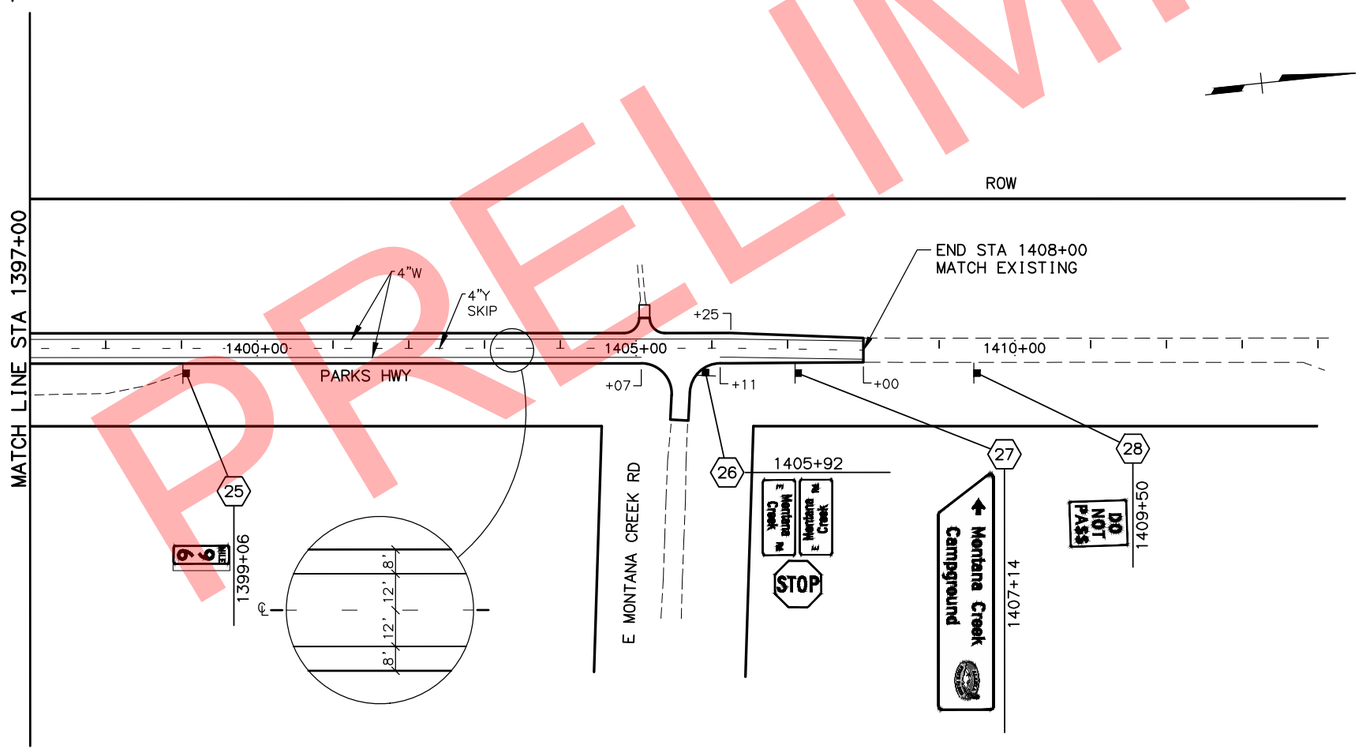

PRELIMINARY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90–99 REHABILITATION

SIGNING AND STRIPING STA 1372+00 TO 1408+41

STATE OF ALASKA 49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

DATE/TIME 5/24/2017 3:09 PM | LAYOUT | LAYOUT1 | DESIGNED DAD | CHECKED RDH | DRAFTED CDB

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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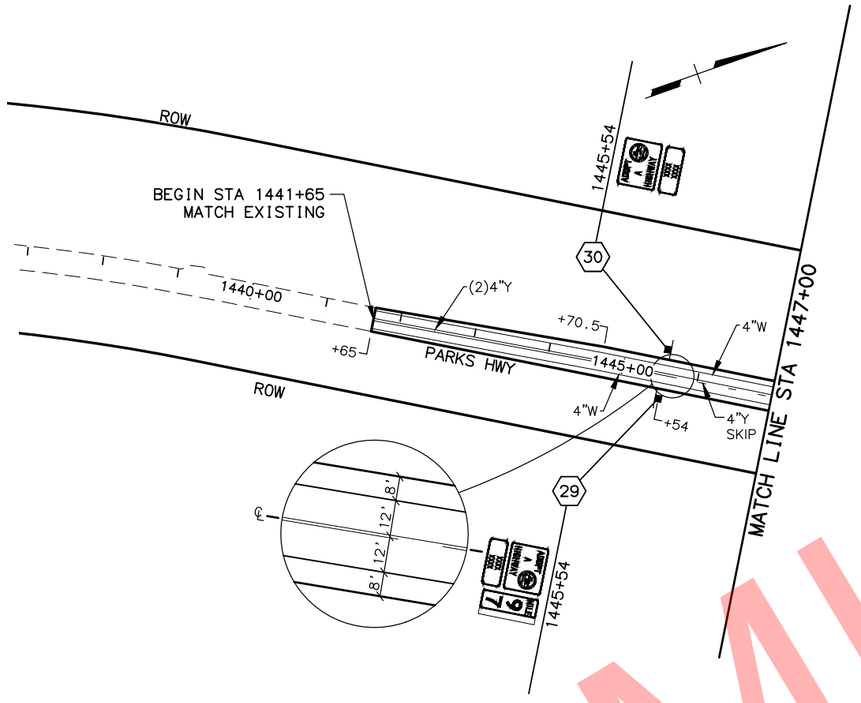

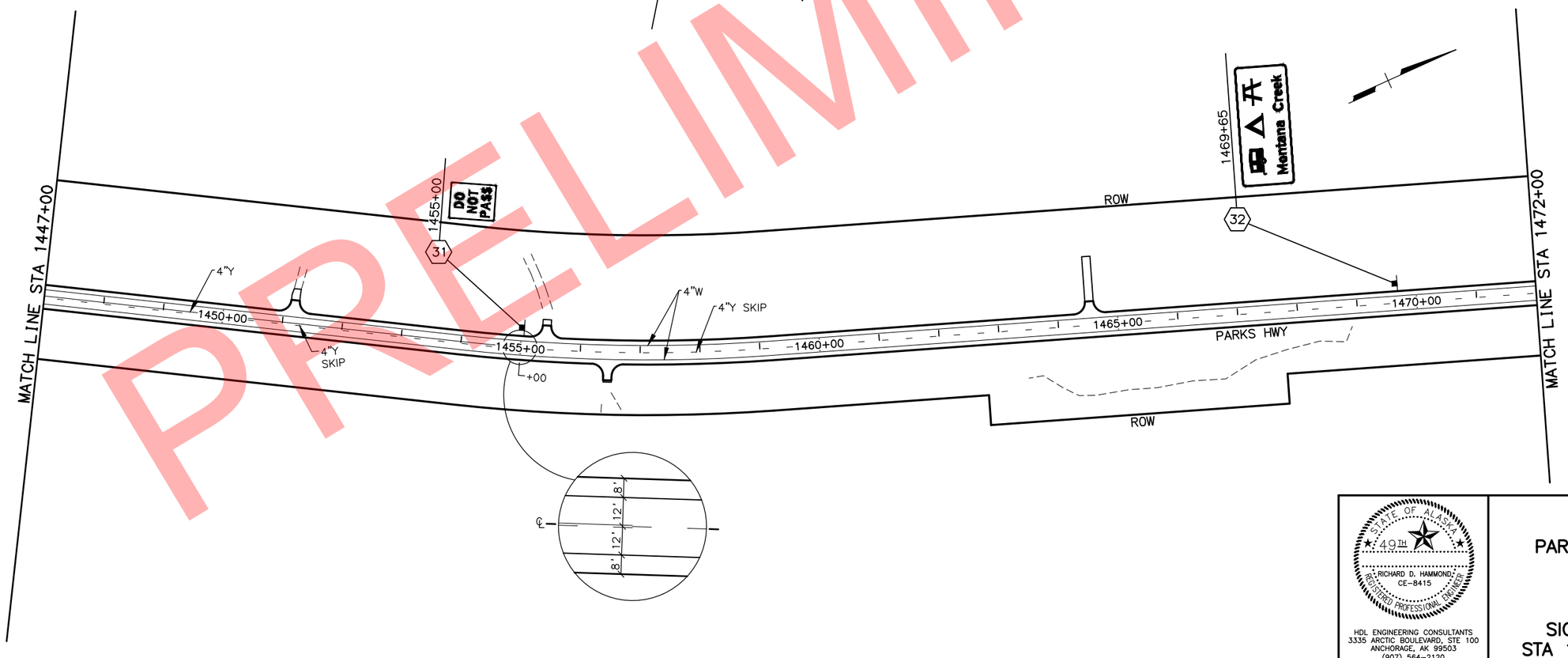

PRELIMINARY

STATE OF ALASKA
49TH
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

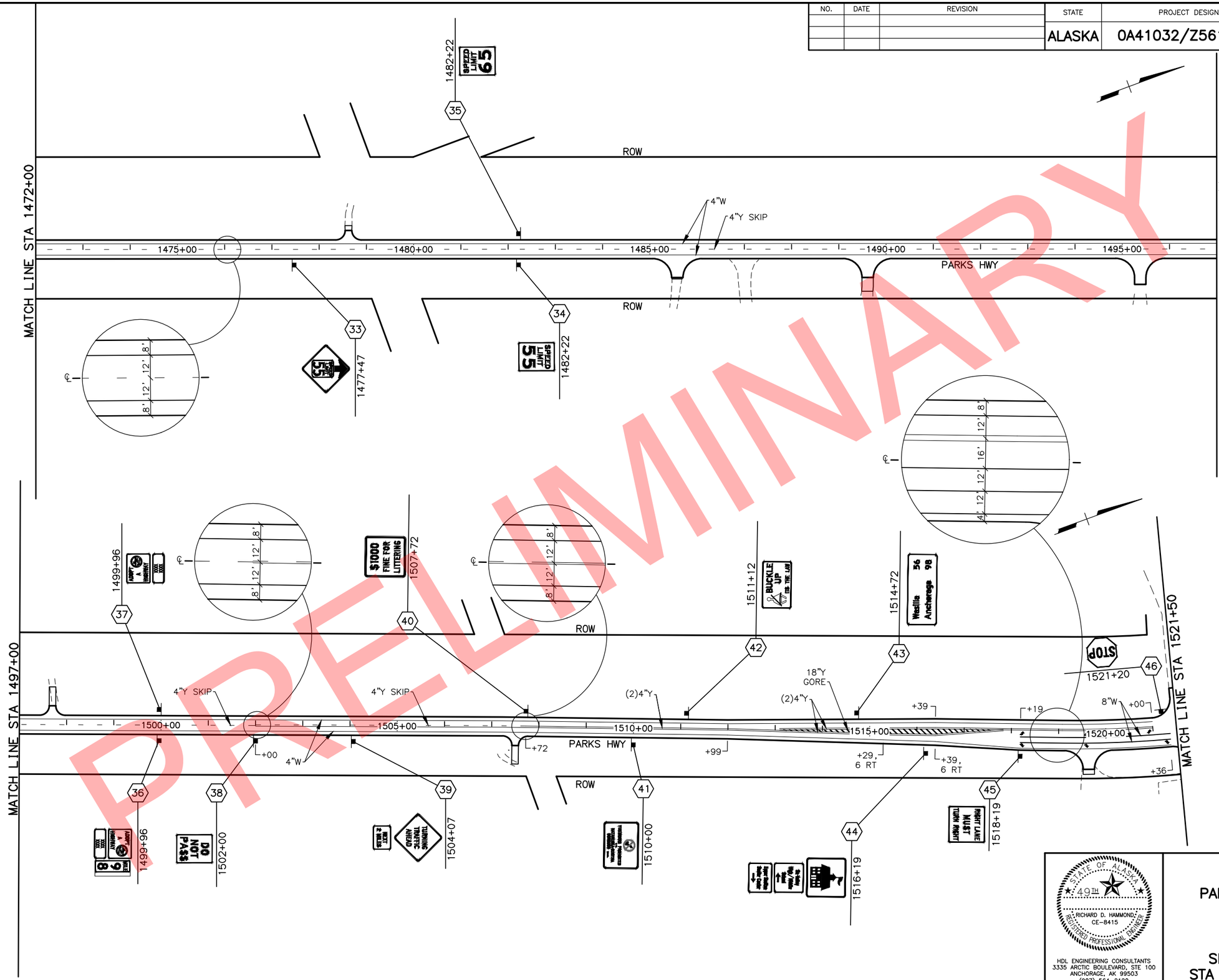
PARKS HWY: MP 90-99 REHABILITATION

SIGNING AND STRIPING
STA 1441+65 TO 1472+00

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_H04-H12.DWG BY bjarmak | DATE/TIME 5/24/2017 3:09 PM | LAYOUT LAYOUT1 | DESIGNED DAD | CHECKED RDH | DRAFTED CDB

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	H11	H18



PRELIMINARY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90–99 REHABILITATION

SIGNING AND STRIPING STA 1472+00 TO 1521+50

STATE OF ALASKA 49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

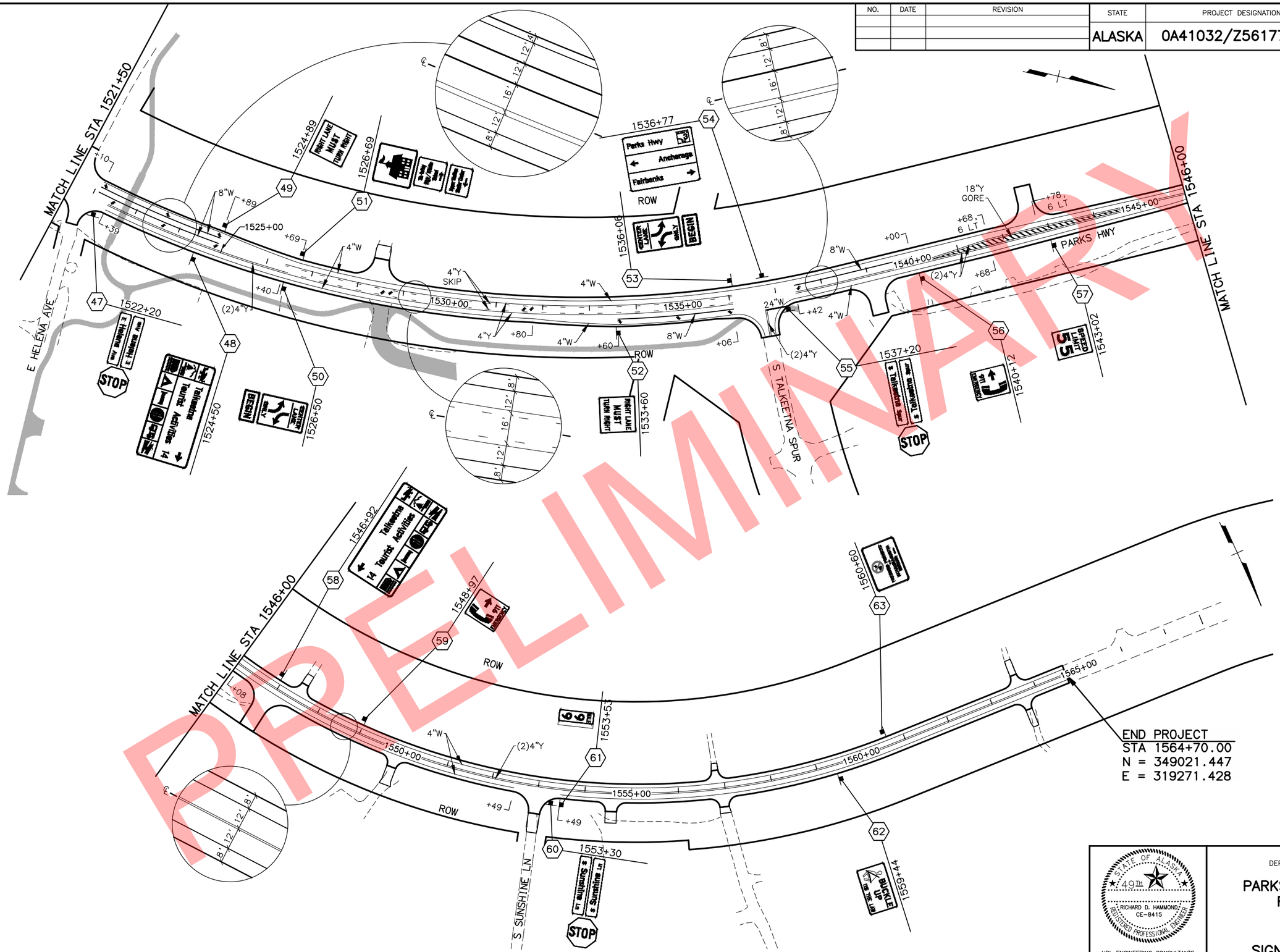
HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

DATE/TIME	LAYOUT	LAYOUT1	DESIGNED	DAD	CHECKED	RDH	DRAFTED	CDB
5/24/2017 3:09 PM								

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_H04-H12.DWG BY byarmok

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	H12	H18



PRELIMINARY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90–99 REHABILITATION

SIGNING AND STRIPING STA 1521+50 TO 1564+70

STATE OF ALASKA 49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

DATE/TIME 5/24/2017 3:09 PM | LAYOUT | LAYOUT1 | DESIGNED DAD | CHECKED RDH | DRAFTED CDB

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_H04-H12.DWG BY byarmak

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	H13	H18

SIGN SUMMARY

SHEET	POST	STATION	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SF)	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED YES	FRAMED NO	REMARKS
H4	1	1082+05	RT	D10-102	MILE 90	16.00	36.00	4.00	S	2.5" T		X	
				I-150	ADOPT A HIGHWAY	30.00	24.00	5.00	S			X	
				I-150B	XXXX XXXX	30.00	12.00	2.50	S			X	
	2	1120+33	LT	D3-100	s Yancey Dr	54.00	12.00	9.00	N/S	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	W		X		
	3	1120+85	RT	D3-100	s Yancey Dr	54.00	12.00	9.00	N/S	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	E		X		
H5	4	1133+59	RT	D10-102	MILE 91	16.00	36.00	4.00	S	2.5" T		X	
				I-150	ADOPT A HIGHWAY	30.00	24.00	10.00	N/S			X	2 SIGNS BACK TO BACK
				I-150B	XXXX XXXX	30.00	12.00	5.00	N/S			X	2 SIGNS BACK TO BACK
	5	1134+72	LT	D3-100	E Falcon Dr	48.00	12.00	8.00	N/S	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	W		X		
	6	1147+75	LT	D3-100	E Chisum Dr	54.00	12.00	9.00	N/S	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	W		X		
	7	1149+01	RT	D3-100	E McKinley Ave	66.00	12.00	11.00	N/S	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	E		X		
H6	8	1204+25	LT	R2-1	SPEED LIMIT 65	30.00	36.00	7.50	N	2.5" PT		X	
	9	1204+25	RT	R2-1	SPEED LIMIT 65	30.00	36.00	7.50	N	2.5" PT		X	
	10	1209+49	LT	D3-100	E Hanrath Rd	54.00	12.00	9.00	N/S	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	W		X		
	11	1209+89	RT	D3-100	E Big Timber Ctr	48.00	21.00	14.00	N/S	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	E		X		
H7	12	1223+20	LT	S3-1	SCHOOL BUS STOP AHEAD	36.00	36.00	9.00	N	3" T	X		

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
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HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SIGNING AND STRIPING
SIGN SUMMARY

H:\Jobs\13-032 Parks Hwy MP 90-99 Rehab (DOT&PF)\10-PS&E\cad\drawings\13032_10_H13-H16, 1=1, 06-22-17 at 13:15 by BCY
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_H13-H16.DWG BY byarmak
DATE/TIME 6/22/2017 4:48 PM LAYOUT H13 - H16 DESIGNED -- CHECKED -- DRAFTED --

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	H14	H18

SIGN SUMMARY

SHEET	POST	STATION	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SF)	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED YES	FRAMED NO	REMARKS
H7	13	1223+63	RT	D3-100	E Kashwitna Rd	66.00	12.00	11.00	N/S	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	E		X		
	14	1230+68	RT	D3-100	E Montana Dr	54.00	12.00	9.00	N/S	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	E		X		
	15	1236+84	RT	D3-100	E Verona Cir	54.00	12.00	9.00	N/S	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	E		X		
	16	1239+08	LT	D12-5	TRAVEL INFO	36.00	48.00	12.00	N	3" T	X		
	17	1239+30	RT	D10-202	MILE 93	16.00	36.00	4.00	S	2.5" T		X	
				I-150	ADOPT A HIGHWAY	30.00	24.00	5.00	S			X	
				I-150B	XXXX XXXX	30.00	12.00	2.50	S			X	
	18	1255+75	RT	R4-1	DO NOT PASS	24.00	30.00	5.00	S	2.5" PT		X	
	19	1266+82	RT	W11-103		36.00	36.00	9.00	S	3" T	X		
				W7-3AP	NEXT 1 MILE	24.00	18.00	3.00	S			X	
	20	1270+24	RT	D2-1	Talkeetna Jct 5	72.00	18.00	9.00	S	(2) 3" T	X		
	21	1270+50	LT	R4-1	DO NOT PASS	24.00	30.00	5.00	N	2.5" PT		X	
H8	22	1291+60	RT	D10-202	MILE 94	16.00	36.00	4.00	S	2.5" T		X	
	23	1364+33	RT	SPECIAL	Montana Creek	96.00	42.00	28.00	S	(2) 3" T	X		
H9	24	1384+32	RT	D3-100	E Mt Snowshoe Dr	54.00	21.00	15.75	N/S	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	E		X		
	25	1399+06	RT	D10-202	MILE 96	16.00	36.00	4.00	S	2.5" T		X	
	26	1405+92	RT	D3-100	E Montana Creek Rd	48.00	21.00	14.00	N/S	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	E		X		
	27	1407+14	RT	D7-102	Montana Creek Campground	150.00	36.00	37.50	S	(2) 3.5" T	X		
	28	1409+50	RT	R4-1	DO NOT PASS	24.00	30.00	5.00	S	2.5" PT		X	

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
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HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SIGNING AND STRIPING
SIGN SUMMARY

H:\Jobs\13-032 Parks Hwy MP 90-99 Rehab (DOT&PF)\10-PS&E\cad\drawings\13032_10_H13-H16, 1=1, 06-22-17 at 13:15 by BCY
FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-PS&E\CAD\DRAWINGS\13032_10_H13-H16.DWG BY byormak
DATE/TIME 6/22/2017 4:48 PM LAYOUT H13 - H16 DESIGNED -- CHECKED -- DRAFTED --

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	H15	H18

SIGN SUMMARY

SHEET	POST	STATION	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SF)	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED YES	FRAMED NO	REMARKS
H10	29	1445+54	RT	D10-202	MILE 9 7	16.00	36.00	4.00	S	2.5" T		X	
				I-150	ADOPT A HIGHWAY	30.00	24.00	5.00	S			X	
				I-150B	XXXX XXXX	30.00	12.00	2.50	S			X	
	30	1445+54	LT	I-150	ADOPT A HIGHWAY	30.00	24.00	5.00	N	2.5" PT		X	
				I-150B	XXXX XXXX	30.00	12.00	2.50	N			X	
	31	1455+00	LT	R4-1	DO NOT PASS	24.00	30.00	5.00	N	2.5" PT		X	
	32	1469+65	LT	SPECIAL	Montana Creek	96.00	42.00	28.00	N	(2) 3.5" T	X		
H11	33	1477+47	RT	W3-5		36.00	36.00	9.00	S	3" T	X		
	34	1482+22	RT	R2-1	SPEED LIMIT 55	30.00	36.00	7.50	S	2.5" PT		X	
	35	1482+22	LT	R2-1	SPEED LIMIT 65	30.00	36.00	7.50	N	2.5" PT		X	
	36	1499+96	RT	D10-202	MILE 9 8	16.00	36.00	4.00	S	2.5" T		X	
				I-150	ADOPT A HIGHWAY	30.00	24.00	5.00	S			X	
				I-150B	XXXX XXXX	30.00	12.00	2.50	S			X	
	37	1499+96	LT	I-150	ADOPT A HIGHWAY	30.00	24.00	5.00	N	2.5" PT		X	
				I-150B	XXXX XXXX	30.00	12.00	2.50	N			X	
	38	1502+00	RT	R4-1	DO NOT PASS	24.00	30.00	5.00	S	2.5" PT		X	
	39	1504+07	RT	SPECIAL		36.00	36.00	9.00	S	3" T	X		
				W7-3A	NEXT 2 MILES	24.00	18.00	3.00	S			X	
	40	1507+72	LT	R16-106	$1000 FINE FOR LITTERING	42.00	42.00	12.25	N	3" T	X		
	41	1510+00	RT	SPECIAL		48.00	36.00	12.00	S	3" T	X		
	42	1511+12	LT	R16-1	BUCKLE UP FOR THE LAW	48.00	30.00	10.00	N	3" T	X		
	43	1514+72	LT	D2-2	Wasilla 56 Anchorage 98	72.00	30.00	15.00	N	(2) 3" T	X		
	44	1516+19	RT	I-102		30.00	30.00	6.25	S	3" T		X	
				I-102P		30.00	30.00	6.25	S			X	
				I-102P		30.00	24.00	5.00	S			X	
	45	1518+19	RT	R3-7R	RIGHT LANE MUST TURN RIGHT	36.00	36.00	9.00	S	3" T	X		
	46	1521+20	LT	R1-1	STOP	36.00	36.00	9.00	W	3" T	X		

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SIGNING AND STRIPING
SIGN SUMMARY

H:\Jobs\13-032 Parks Hwy MP 90-99 Rehab (DOT&PF)\10-PS&E\cad\drawings\13032_10_H13-H16, 1=1, 06-22-17 at 13:15 by BCY
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DATE/TIME 6/22/2017 4:48 PM LAYOUT H13 - H16 DESIGNED -- CHECKED -- DRAFTED --

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	H16	H18

SIGN SUMMARY

SHEET	POST	STATION	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SF)	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED YES	FRAMED NO	REMARKS
H12	47	1522+20	RT	D3-100	E Helena Ave	54.00	12.00	9.00	N/S	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	E		X		
	48	1524+50	RT	D9-204		108.00	54.00	40.50	S	(2) W6X9	X		
	49	1524+89	LT	R3-7	RIGHT LANE MUST TURN RIGHT	36.00	36.00	9.00	N	3" T	X		
	50	1526+50	RT	R3-9B		24.00	36.00	6.00	S	2.5" T		X	
				R3-9cP	BEGIN	30.00	12.00	2.50	S			X	
	51	1526+69	LT	I-102		30.00	30.00	6.25	N	3" T		X	
				I-102P		30.00	30.00	6.25	N			X	
				I-102P		30.00	24.00	5.00	N			X	
	52	1533+60	RT	R3-7	RIGHT LANE MUST TURN RIGHT	36.00	36.00	9.00	S	3" T	X		
	53	1536+06	LT	R3-9B		24.00	36.00	6.00	N	2.5" T		X	
				R3-9cP	BEGIN	30.00	12.00	2.50	N			X	
	54	1536+77	LT	SPECIAL		108.00	84.00	63.00	E	(2) W6X9	X		
	55	1537+20	RT	D3-100	s Talkeetna Spur	66.00	12.00	5.50	N/S	3" T	X		
				R1-1	STOP	36.00	36.00	9.00	E		X		
	56	1540+12	RT	D9-110		30.00	36.00	7.50	S	2.5" T		X	
	57	1543+02	RT	R2-1	SPEED LIMIT 55	30.00	36.00	7.50	S	2.5" PT		X	
	58	1546+92	LT	D9-204		108.00	54.00	40.50	N	(2) W6X9	X		
	59	1548+97	LT	D9-110		30.00	36.00	7.50	N	2.5" T		X	
	60	1553+30	RT	D3-100	s Sunshine Ln	60.00	12.00	10.00	E/W	3" T	X		2 SIGNS BACK TO BACK
				R1-1	STOP	36.00	36.00	9.00	N		X		
	61	1553+53	RT	D10-202		16.00	36.00	4.00	E	2.5" T		X	
	62	1559+44	RT	R16-1	BUCKLE UP FOR THE LAW	48.00	30.00	10.00	E	3" T	X		
	63	1560+60	LT	SPECIAL		48.00	36.00	12.00	W	3" T	X		

PRELIMINARY

STATE OF ALASKA
49TH
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SIGNING AND STRIPING
SIGN SUMMARY

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	H17	H18

SALVAGE SIGN SUMMARY

SHEET	STATION	OFFSET	REMARKS
F1	1082+48	RT	MILE 90
F2	1113+37	RT	MAT-SU VALLEY RV PARK
	1120+31	LT	STOP, YANCEY DR
	1120+84	RT	STOP, YANCEY DR
F3	1127+86	LT	MAT-SU VALLEY RV PARK
	1134+02	RT	MILE 91, ADOPT A HWY, SUSITNA DOG TOUR B.B.
	1134+68	RT	STOP, FALCON DRIVE
	1143+51	RT	BIG SUSITNA B&B
	1145+74	RT	RAILROAD CROSSING
	1147+88	LT	STOP, CHISUM DR
	1149+23	RT	STOP, MCKINLEY AVE
	1150+13	LT	SIGN MISSING
F4	1152+40	LT	BIG SUSITNA B&B
F6	1204+25	LT	SPEED LIMIT 65
	1209+52	LT	STOP, HANRATH RD
	1209+72	RT	STOP, BIG TIMBER CIR
	1223+20	LT	SCHOOL BUS STOP AHEAD
	1223+48	RT	STOP, KASHWITNA RD
F7	1230+56	RT	STOP, MONTANA DR
	1236+76	RT	STOP, VERONA CIR
	1239+08	LT	511 TRAVEL INFO
	1239+72	RT	MILE 93, ADOPT A HWY, UPPER SUSITNA SHOOTERS
F8	1256+63	RT	SIGN MISSING
	1261+55	RT	SIGN MISSING
	1262+86	LT	GOOSE CREEK
	1270+24	RT	TALKEETNA ROAD JUNCTION 5
F9	1292+02	RT	MILE 94
F12	1364+33	RT	MONTANA CREEK, 1 MILE
F13	1384+25	RT	STOP, MT SNOWSHOE DR
	1399+48	RT	MILE 96
	1405+89	RT	STOP, MONTANA CREEK RD
F14	1407+14	RT	MONTANA CREEK, STATE RECREATION PARK
	1408+57	RT	SIGN MISSING
F15	1445+57	LT	ADOPT A HWY, MONTANA CREEK CAMPGROUNDS
	1445+96	RT	MILE 97, ADOPT A HWY, UPPER SUSITNA SENIORS

SALVAGE SIGN SUMMARY

SHEET	STATION	OFFSET	REMARKS
F16	1469+65	LT	MONTANA CREEK
	1477+64	RT	SPEED ZONE AHEAD
	1482+22	RT	SPEED LIMIT 55
	1482+25	LT	SPEED LIMIT 65
F17	1499+96	RT	SPEED LIMIT 55
	1500+00	LT	ADOPT A HWY, UPPER SUSITNA SENIORS
	1500+27	RT	DO NOT PASS
	1500+38	RT	MILE 98, ADOPT A HWY, SUSITNA VALLEY HIGH SCHOOL
	1504+09	RT	TURNING TRAFFIC AHEAD, 45 MPH, NEXT 2 MI
	1508+51	LT	GIVE MOOSE A BREAK
F18	1511+15	LT	BUCKLE UP FOR SAFETY
	1513+96	RT	PED CROSSING AHEAD
	1515+12	LT	WASILLA 56, ANCHORAGE 98
	1515+48	RT	SCHOOL, SPEED LIMIT 20 WHEN FLASHING
	1516+25	LT	SPEED LIMIT 55
	1517+45	RT	SU-VALLEY HIGH/MIDDLE SCHOOL, SENIOR CENTER
	1521+32	LT	STOP, SU VALLEY HIGH SCHOOL
	1522+10	RT	STOP, E HELENA DR
	1522+12	LT	PED CROSSING
	1522+15	LT	BICYCLE CROSSING, BICYCLE STOP SIGN
	1524+54	LT	RIGHT LANE MUST TURN RIGHT
	1525+37	LT	LEFT ONLY, THROUGH ONLY, RIGHT ONLY
	1526+05	RT	TALKEETNA, TOURIST ACTIVITIES NEXT RIGHT
	1526+23	LT	NO LITTERING
	1526+65	LT	SU VALLEY HIGH/MIDDLE SCHOOL, SENIOR CENTER
	1527+70	LT	SCHOOL, SPEED LIMIT 20 WHEN FLASHING
	1527+72	RT	SPEED LIMIT 55, END SCHOOL ZONE
	1529+48	RT	FIREWORKS PROHIBITED
	1529+54	LT	FIREWORKS PROHIBITED
	1530+02	LT	PEDESTRIAN CROSSING AHEAD
	1531+08	RT	FAIRBANKS THROUGH, TALKEETNA RIGHT
	1531+66	RT	3 WAY INTERSECTION
	1532+05	RT	DAY MEDICAL CLINIC, STATE TROOPERS
	1532+71	RT	RIGHT LANE MUST TURN RIGHT

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
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REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SIGN SALVAGE SUMMARY

FILE H:\JOBS\13-032 PARKS HWY MP 90-99 REHAB (DOT&PF)\10-FS&E\CAD\DRAWINGS\13032_10_H17-H18.DWG BY byermak
DATE/TIME 5/24/2017 3:34 PM
LAYOUT MODEL
DESIGNED --
CHECKED --
DRAFTED --

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A41032/Z561770000	2017	H18	H18

SALVAGE SIGN SUMMARY (CONTINUED)

SHEET	STATION	OFFSET	REMARKS
F19	1535+95	RT	RIGHT TURN MUST TURN RIGHT
	1536+76	LT	ANCHORAGE LEFT, FAIRBANKS RIGHT
	1537+04	RT	STOP, TALKEETNA SPUR RD
	1540+11	RT	LAYING ON GROUND
	1540+98	LT	DAY MEDICAL CLINIC, STATE TROOPERS
	1541+94	LT	TALKEETNA LEFT, ANCHORAGE THROUGH
	1543+05	RT	SPEED LIMIT 55
	1543+92	LT	POST ONLY
	1544+36	RT	LEFT CURVE
	1546+93	LT	TALKEETNA, TOURIST ACTIVITIES NEXT RIGHT
F20	1553+28	RT	STOP, SUNSHINE DR
	1553+95	RT	MILE 99
	1559+43	RT	BUCKLE UP-FOR SAFETY
	1561+58	LT	RIGHT CURVE

PRELIMINARY

STATE OF ALASKA
49TH
RICHARD D. HAMMOND
CE-8415
REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907) 564-2120
AECL861

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PARKS HWY: MP 90-99
REHABILITATION

SIGN SALVAGE SUMMARY

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