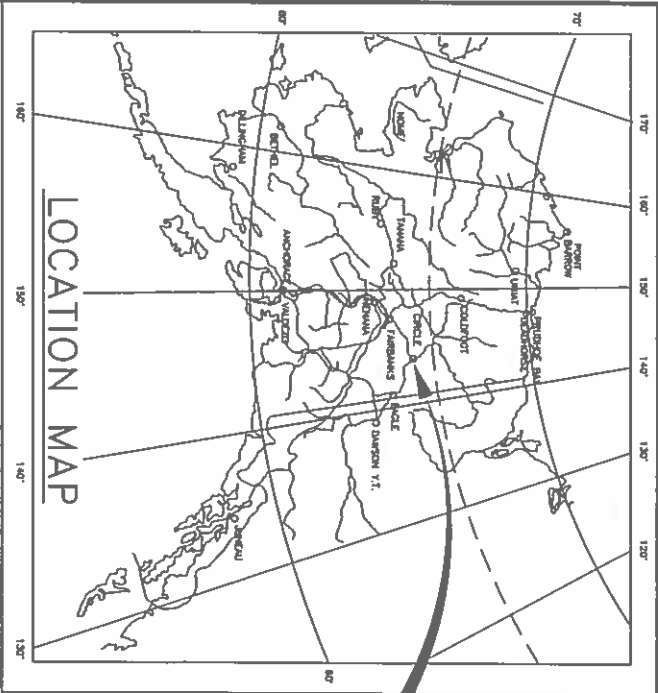




PROJECT
LOCATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION

&

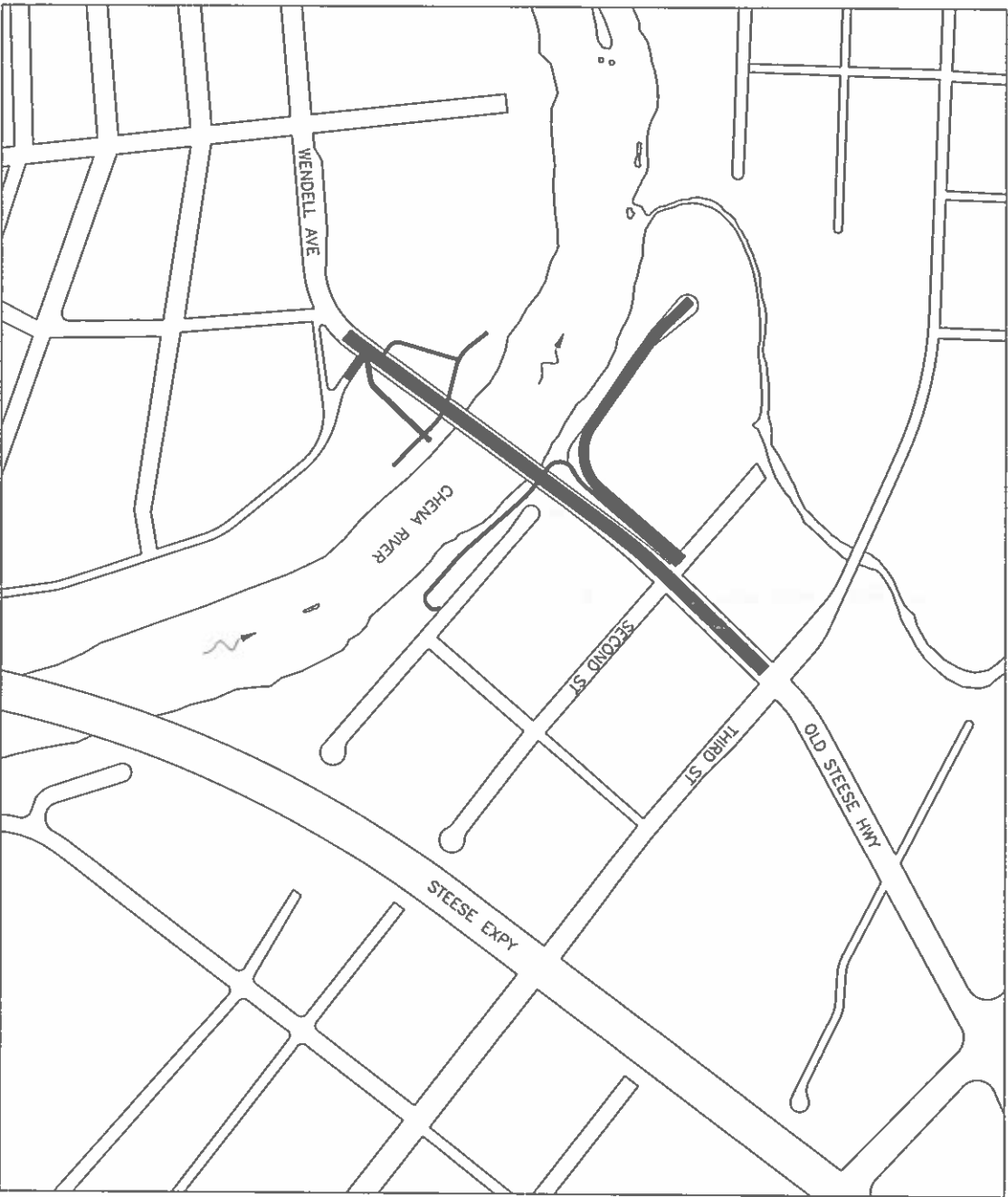
PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

Z632910000

WENDELL AVENUE BRIDGE (#0532)

GRADING, DRAINAGE, PAVING, BRIDGE, ILLUMINATION, AND UTILITIES



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	63291	2020	A1	??
CDS ROUTE: 176475			MILEPOINT: 0.000		TO 0.035		

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2-A7	LEGEND & SHEET LAYOUT INDEX
B1-B7	TYPICAL SECTIONS
C1-C7	ESTIMATE OF QUANTITIES & GENERAL NOTES
D1-D7	SUMMARIES
E1-E7	CULVERT/DRAINAGE DETAILS & SUMMARY
E7-E7	MISCELLANEOUS DETAILS
F1-F7	PLAN & PROFILE
G1-G7	APPROACH SUMMARY & DETAILS
G7-G7	INTERSECTION LAYOUT & GRADING SHEETS
H1-H7	SIGNING & STRIPING
H7-H7	ILLUMINATION & TRAFFIC SIGNAL PLANS
K1-K7	AUTOMATED TRAFFIC RECORDER (ATR)
L1-L2	LANDSCAPING
M1-M7	RETAINING WALLS
N1-N7	BRIDGE PLANS
O1-O7	EROSION SEDIMENT CONTROL PLANS
S1-S7	CONSTRUCTION PHASING PLANS
T1-T7	TRAFFIC CONTROL PLANS (and/or DEVICES)
U1-U7	UTILITIES PLANS
V1-V7	STANDARD DRAWINGS

DESIGN DESIGNATIONS

ADT (2010)	9015
ADT (2040)	11450
DHV (11.5%)	1315
PERCENT TRUCKS (T)	4.25%
DIRECTIONAL SPLIT (D)	45%/55%
DESIGN SPEED (V)	35 MPH
DESIGN EAL'S (15 YEARS)	857,939

PROJECT SUMMARY

WIDTH OF PAVEMENT	VARIES 8-36 FT
LENGTH OF GRADING	3200 FT
LENGTH OF PAVING	3500 FT
LENGTH OF PROJECT	3500 FT

RUSSELL JOHNSON, P.E., PROJECT MANAGER
DUANE M. DAVIS, P.E., ENGINEER OF RECORD
JACOB RAHLFS, E.I.T., DESIGNER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED BY:

DATE

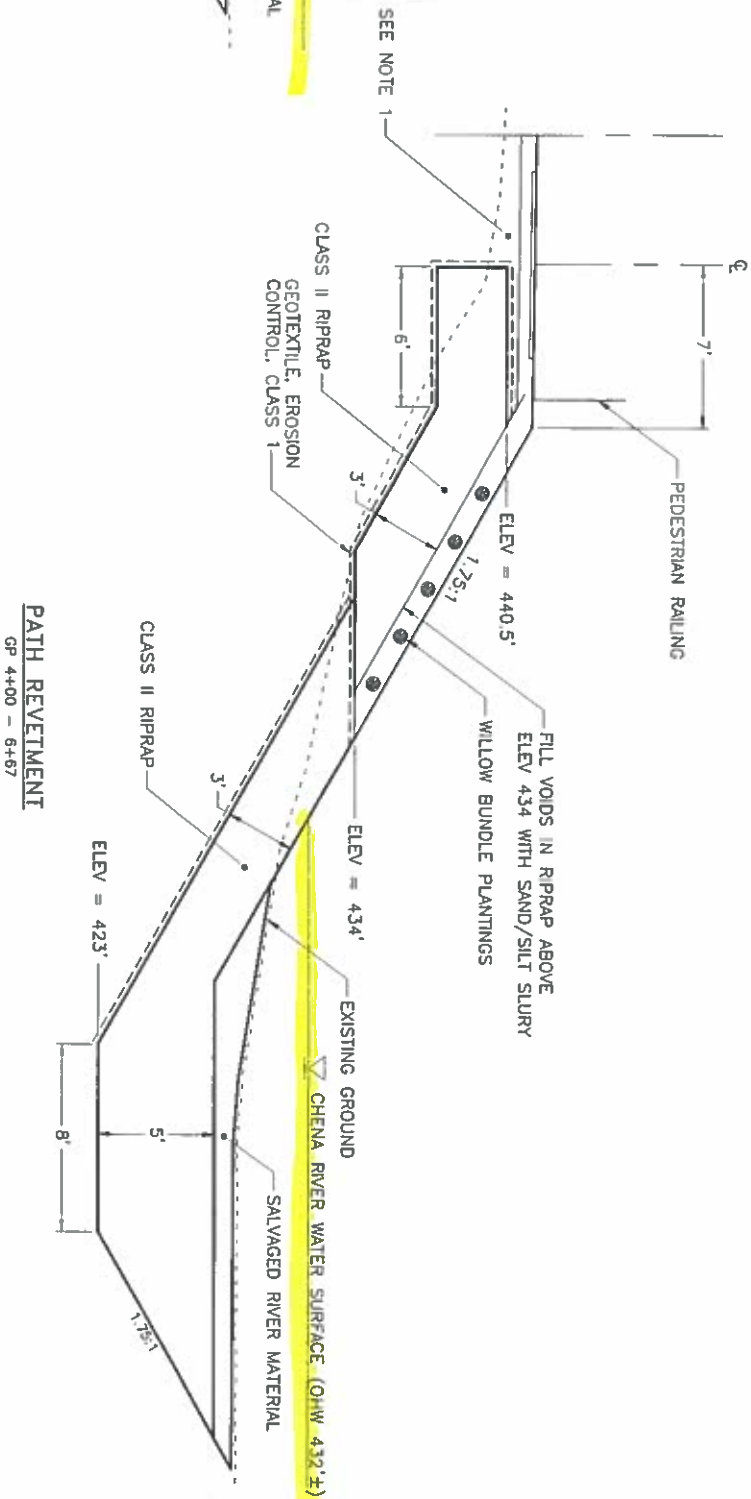
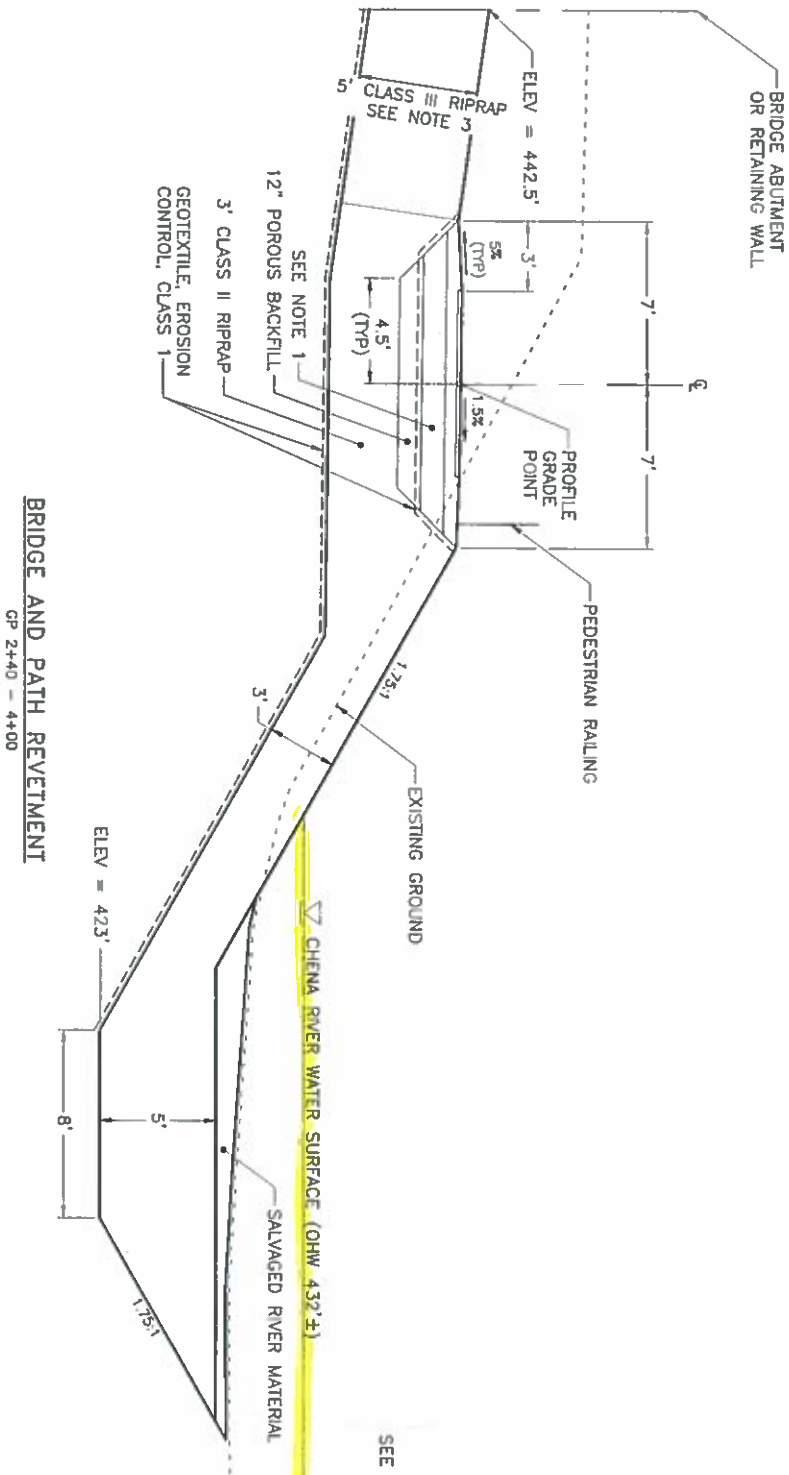
Sarah E. Schocher, P.E.
Preconstruction Engineer, Northern Region
ACCEPTED FOR CONSTRUCTION:

DATE

Ryan F. Anderson, P.E.
Regional Director, Northern Region

RECOVERED SET		EXISTING	PROPOSED	EXISTING		PROPOSED	EXISTING		PROPOSED
BLM MONUMENT		SANITARY SEWER (FLOW DIRECTION →)		ROADWAY/PAVEMENT EDGE			JUNCTION BOX, TYPE I		
GLO MONUMENT		FUEL LINE		FENCE			JUNCTION BOX, TYPE II		
USG&S MONUMENT		GAS LINE		CURB AND GUTTER			JUNCTION BOX, TYPE III		
PRIMARY MONUMENT		WATER LINE		DETECTABLE WARNINGS			SIGNAL FACE, VEHICULAR		
CENTERLINE MONUMENT IN CASING		METER, VALVE, FIRE HYDRANT		GUARDRAIL			SIGNAL FACE, BACKPLATE		
PRIMARY R.O.W. MONUMENT		EXISTING STORM DRAIN (FLOW DIRECTION →)		CULVERT PIPE			SIGNAL FACE, LEFT TURN, BACKPLATE		
BEARING OBJECT		PROPOSED STORM DRAIN		SIGN			SIGNAL FACE, PEDESTRIAN		
MISCELLANEOUS MONUMENT		FIBER OPTIC LINE		MAILBOX			LOOP DETECTOR		
LINE OF SIGHT MONUMENT		DIRECT BURIAL TELEPHONE CABLE		RAILROAD TRACKS			VIDEO DETECTOR		
CONCRETE R.O.W. MONUMENT		DIRECT BURIAL ELECTRIC CABLE		RAILROAD DEVICES			RADAR DETECTOR		
BENCHMARK		ELECTRIC LINE (OVERHEAD)		TREE LINE			OPTICOM DETECTOR		
REBAR AND CAP		POWER POLE LINE		WATER BOUNDARY			PEDESTRIAN PUSH BUTTON		
REBAR		JOINT USE POWER & TELEPHONE		ORDINARY HIGH WATER LINE			SIGNAL POST W/O MAST ARM		
IRON PIPE		TELEPHONE POLE LINE		FLOW CENTERLINE			SIGNAL POLE W/MAST ARM		
PK MAIL		POLE ANCHOR		WETLANDS			LOAD CENTER		
SPIKE		STUB POLE (POWER OR TELEPHONE)		EXISTING BUILDINGS			LUMINAIRE		
HUB AND TACK		TELEPHONE DUCT		POST OR BOLLARD			RIGID METAL CONDUIT		
CONSTRUCTION CENTERLINE		TELEPHONE PEDESTAL		WELL OR MONITORING WELL					
MISCELLANEOUS CENTERLINE		BURIED CABLE MARKER		SEPTIC PIPE					
STATION EQUATION		PIPELINE MARKER OR VALVE		FUEL TANK FILL PIPE/VENT					
PROJECT RIGHT-OF-WAY LINE		CATCH BASIN OR DROP INLET		SATELLITE DISH					
EXISTING RIGHT-OF-WAY LINE		MANHOLE		TEST HOLE					
EXISTING PROPERTY LINE		SANITARY SEWER CLEAN OUT		CONIFER TREE					
CONTROLLED ACCESS LINE				DECIDUOUS TREE					
UTILITY EASEMENT LINE				GRAVE					
TEMPORARY EASEMENT LINE (TCP OR TCE)				THERMOSIPHON					
ACCESS OR SECTION LINE EASEMENT				PARKING METER					
PROPOSED CUT SLOPE LIMIT				VEHICLE PLUG-IN					
PROPOSED FILL SLOPE LIMIT				DELINEATOR/GUIDE MARKER					
SECTION LINE									
1/4 SECTION LINE									
1/16 SECTION LINE									
TOWNSHIP & RANGE LINE									

LEGEND



BRIDGE AND PATH REVETMENT

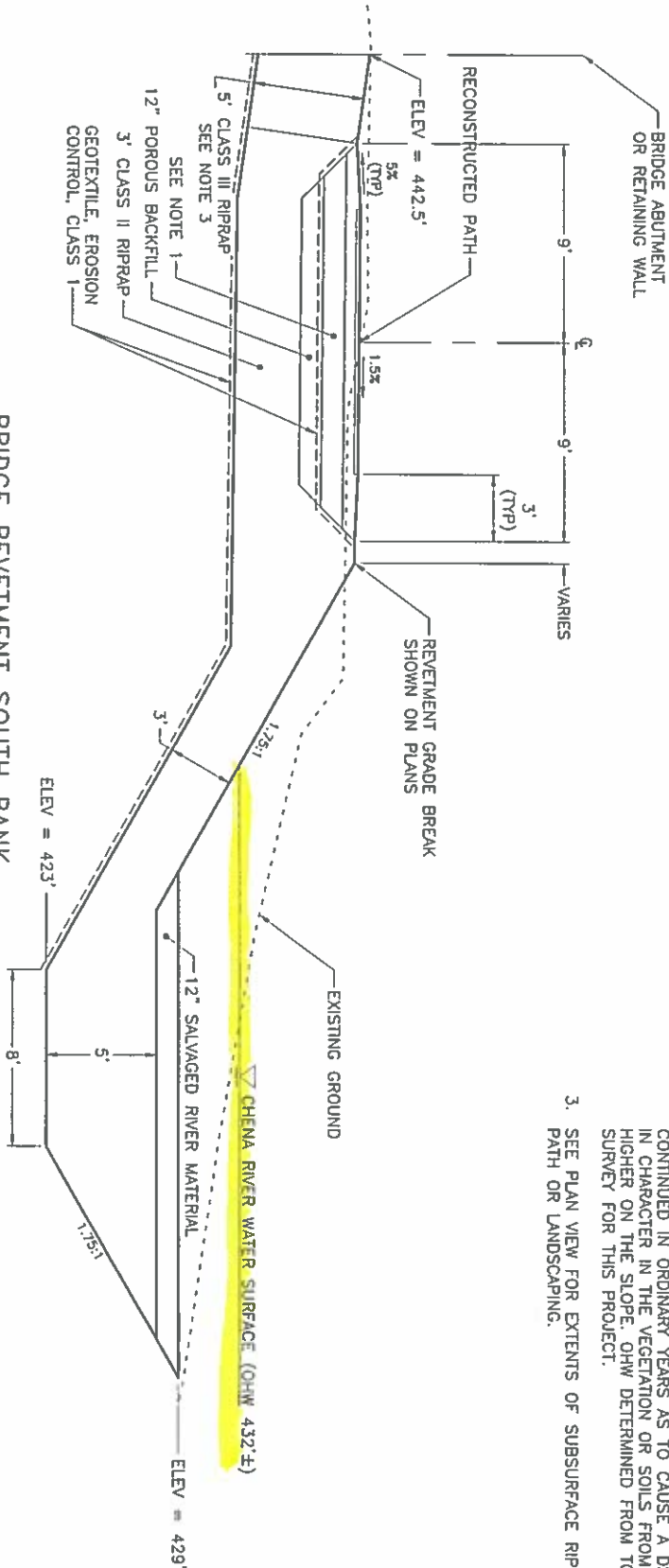
GP 2+40 - 4+00

PATH REVETMENT

GP 4+00 - 6+67

SHEET NOTES:

1. FOR PATH STRUCTURAL SECTION, SEE TYPICAL SECTIONS.
2. ORDINARY HIGH WATER (OHW) IS DEFINED AS WHERE THE PRESENCE AND ACTIONS OF WATERS ARE SO COMMON, USUAL, AND LONG CONTINUED IN ORDINARY YEARS AS TO CAUSE A DISTINCT CHANGE IN CHARACTER IN THE VEGETATION OR SOILS FROM THAT OBSERVED HIGHER ON THE SLOPE. OHW DETERMINED FROM TOPOGRAPHIC SURVEY FOR THIS PROJECT.
3. SEE PLAN VIEW FOR EXTENTS OF SUBSURFACE RIPRAP BENEATH PATH OR LANDSCAPING.

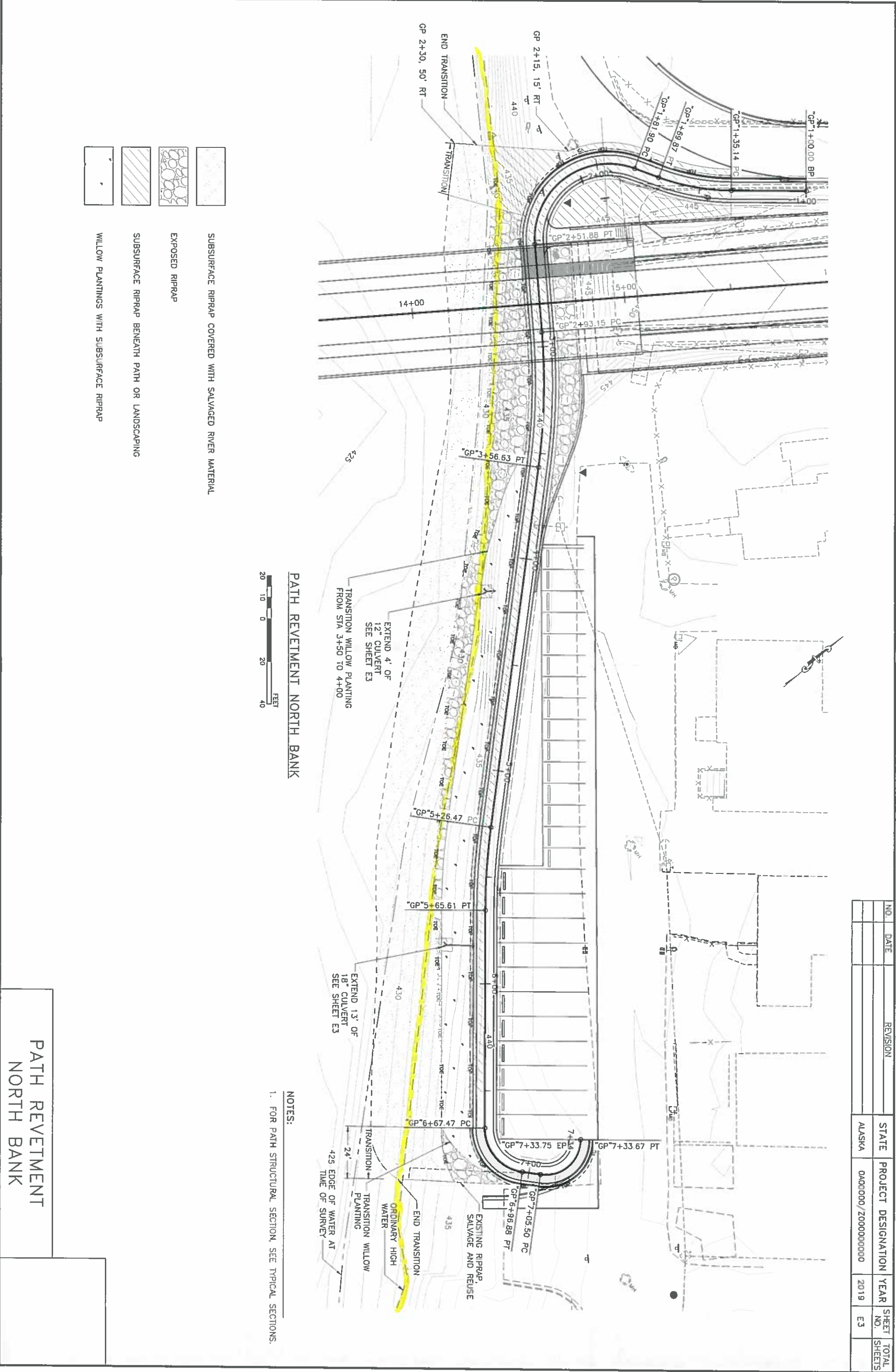


BRIDGE REVETMENT SOUTH BANK

BRIDGE AND PATH REVETMENT

GP 1+35 - 2+40

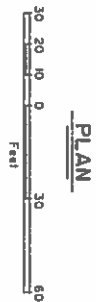
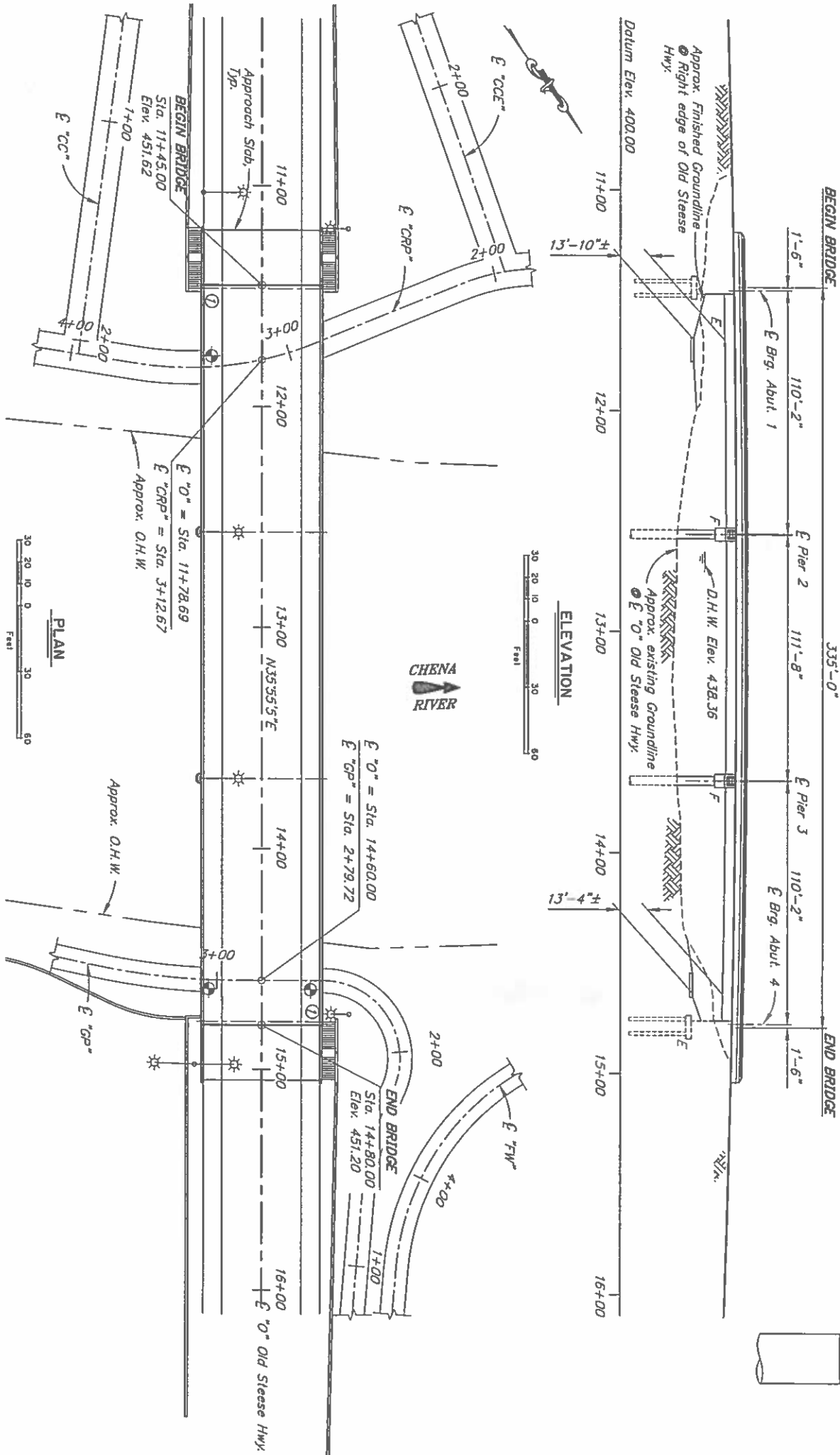
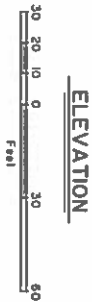
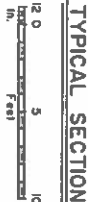
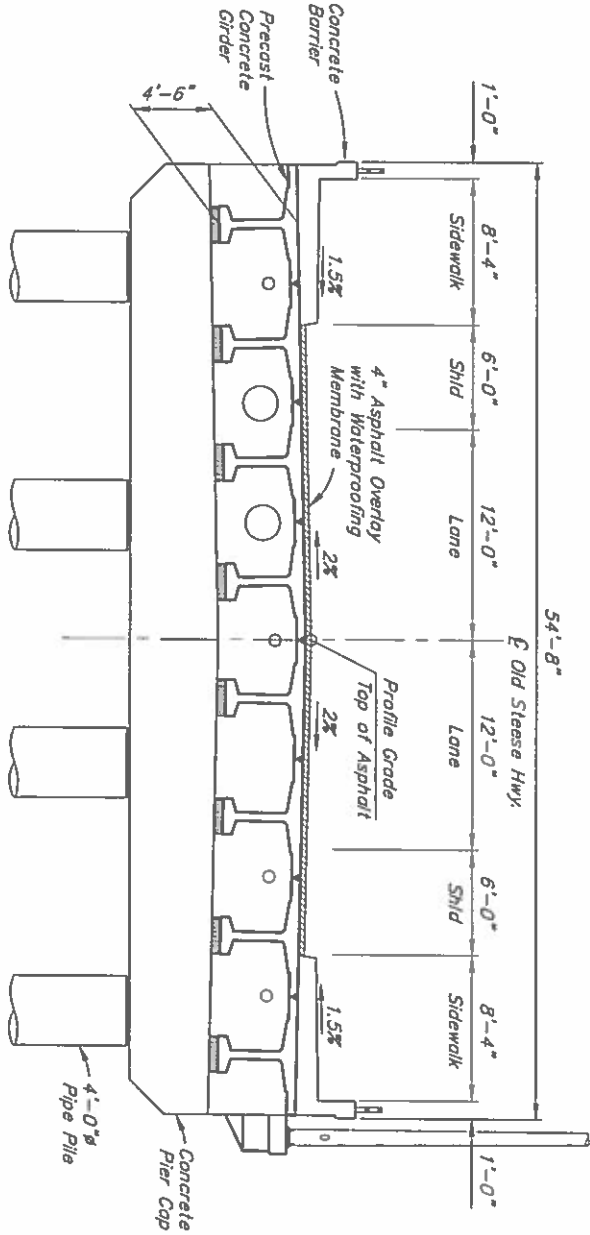
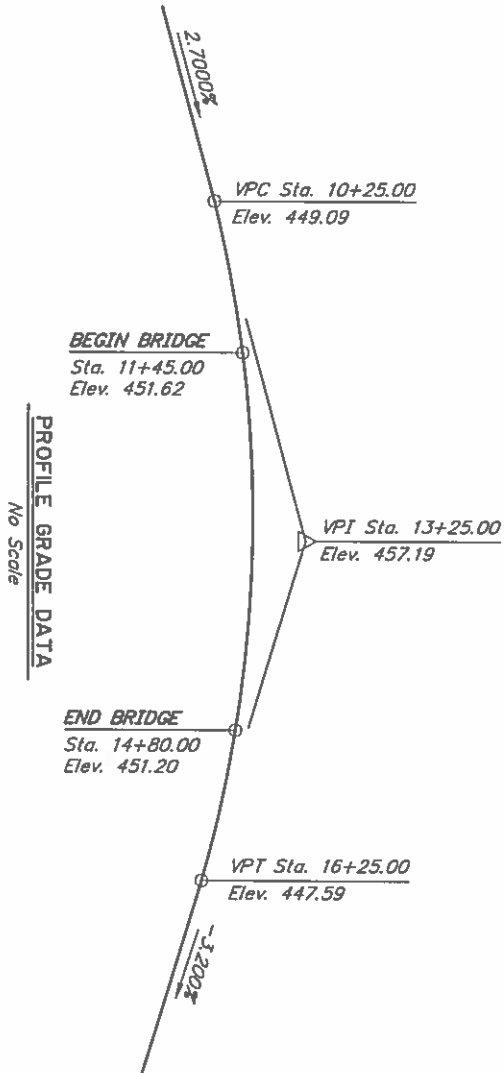
REVETMENT
TYPICAL SECTIONS



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A00000/2000000000	2019	E3	

PATH REVELTMENT
NORTH BANK

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z632910000	2019	N1	15



BRIDGE DRAWING INDEX	
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MSE WALL DETAILS	3
C.I.P. WALL 1	4
C.I.P. WALL 2	5
ABUTMENT 1 DETAILS	6
ABUTMENT 1 DETAILS	7
ABUTMENT 4 DETAILS	8
ABUTMENT 4 DETAILS	9
PIERS	10
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FRAMING PLAN AND TYPICAL SECTION	12
GIRDERS	13
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ABUTMENT 4 - RIGHT DETAILS	21
ABUTMENT 4 - RIGHT DETAILS	22
ABUTMENT 4 - RIGHT DETAILS	23
ABUTMENT 4 - RIGHT DETAILS	24

REVIEW PSE

① Approximate location of Bridge Number Plate.
Point of minimum vertical clearance.

DESIGNED BY: Leslie Daugherty	CHECKED: checker	LAYOUT BY: Leslie Daugherty	CHECKED: checker
DRAWN BY: Sam Soile	CHECKED: Leslie Daugherty	SPECIFICATIONS BY: Leslie Daugherty	P S & E COMPARED: checker
QUANTITIES BY: Leslie Daugherty	CHECKED: checker	APPROVAL RECOMMENDED BY: Rich Pratt	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

CHENA RIVER BRIDGE (WENDELL AVE.)
OLD STEESE HIGHWAY
GENERAL LAYOUT

BRIDGE NO. 532
DWG. NO. 1

PHASING NOTES:

- 1. ACTIVITIES NOT DESCRIBED HEREIN CAN BE COORDINATED THROUGH CONSTRUCTION SCHEDULE SUBMITTALS.
- 2. PRIOR TO COMMENCING WORK, CONTRACTOR MUST COORDINATE WITH USAK TO CONFIRM EXISTING ISOLATION VALVES CAN ADEQUATELY ISOLATE THE AREA OF CUT-IN.
- 3. CONTRACTOR SHALL ABIDE BY USAK REQUIREMENTS FOR WATER AND SEWER OUTAGES AND PROVIDE TEMPORARY WATER SERVICE AND SEWER BYPASS AS NECESSARY. IF AT ALL POSSIBLE SHUTDOWNS SHALL BE PLANNED FOR NON-FREEZING MONTHS. ANY SHUTDOWN DURING WINTER OPERATION SHALL BE COORDINATED WITH USAK SO THAT ADEQUATE CIRCULATING FREEZE PROTECTION IS MAINTAINED.

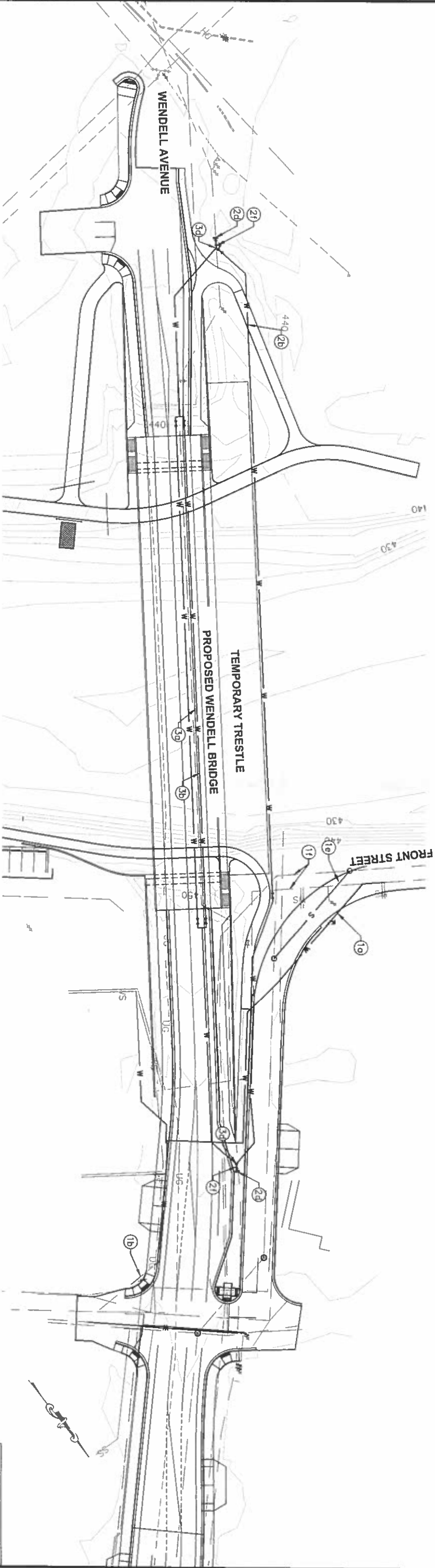
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	63291	2016	U8	U11

- PHASE 1**
- a) CONSTRUCT NORTH 10-IN WATERLINE RELOCATION (SHEET U6). KEEP EXISTING LINE IN OPERATION AS LONG A POSSIBLE.
 - b) THROUGH BACKFLOW PREVENTER: FLUSH, HYDROTEST, DISINFECT, AND OBTAIN ADEC INTERIM APPROVAL TO OPERATE.
 - c) SHUTDOWN FRONT STREET WATERLINE AND CONNECT NEW WATERLINE TO EXISTING SYSTEM.
 - d) BRING-UP NEW FRONT STREET WATERLINE.
 - e) CONSTRUCT SEWER LINE RELOCATION (SHEET U7) ON FRONT STREET: MAINTAIN SEWER BYPASS DURING CONSTRUCTION.
 - f) REMOVE EXISTING RELOCATED WATER AND SEWER PIPING THAT INTERFERES WITH TRESTLE BRIDGE.

- PHASE 2**
- a) CONSTRUCT TRESTLE AND APPROACHES.
 - b) CONSTRUCT TEMPORARY WATERLINE ACROSS TRESTLE (SHEET U2 AND U3).
 - c) THROUGH BACKFLOW PREVENTER: FLUSH, HYDROTEST, DISINFECT, AND OBTAIN ADEC INTERIM APPROVAL TO OPERATE.
 - d) INSTALL MIDSPAN THRUST BLOCK ON NORTH AND SOUTH CONNECTION TO 18 IN DIP.
 - e) SHUTDOWN 18 IN WATERLINE CROSSING BRIDGE UPSTREAM OF CUT-IN.
 - f) INSTALL HYDRANT ASSEMBLY AND PERMANENT MAINLINE VALVE ON SOUTH SIDE (U4) AND PERMANENT MAINLINE VALVE ON NORTH END (U5).
 - g) OPEN VALVES TO TEMPORARY WATERLINE.

- PHASE 3**
- a) REMOVE EXISTING BRIDGE AND WATERLINE.
 - b) CONSTRUCT NEW BRIDGE AND PERMANENT WATERLINE (U4, U5).
 - c) THROUGH BACKFLOW PREVENTER: FLUSH, HYDROTEST, DISINFECT, AND OBTAIN ADEC INTERIM APPROVAL TO OPERATE.
 - d) SHUTDOWN WENDELL WATERLINE CROSSING.
 - e) DISCONNECT 45" BEND AT NORTH AND SOUTH CONNECTION. ROTATE FITTING 90° AND CONNECT TO PERMANENT PIPING.
 - f) OPEN VALVES TO PERMANENT PIPING.

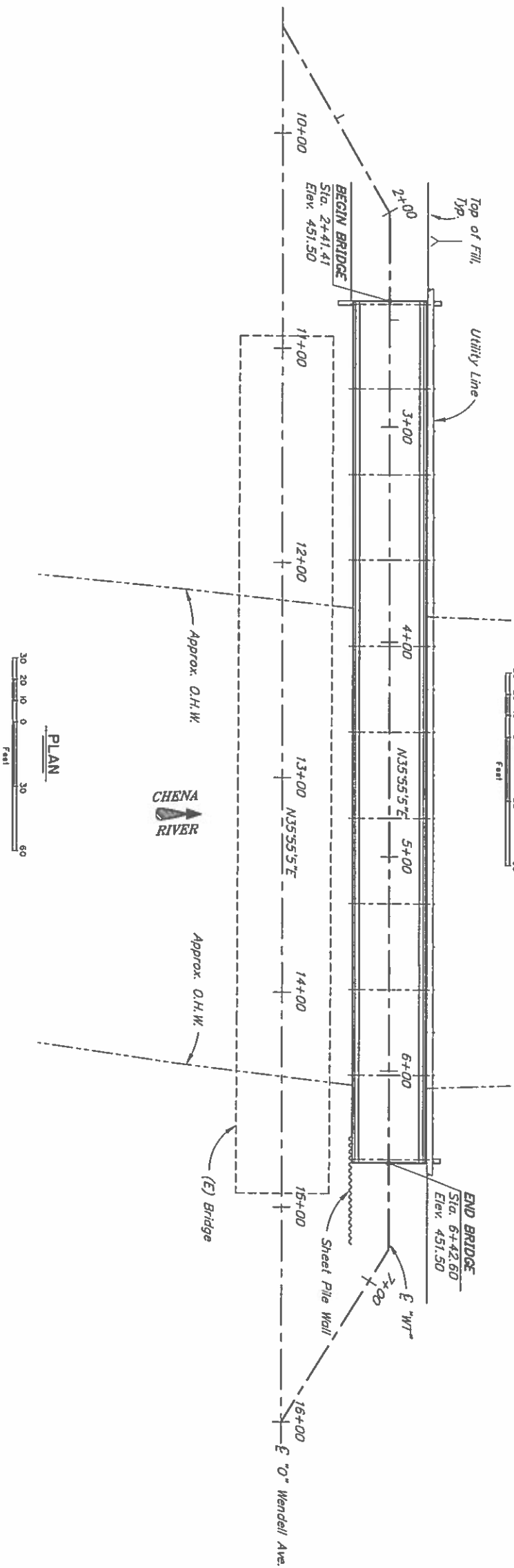
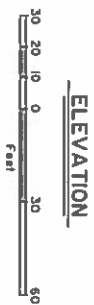
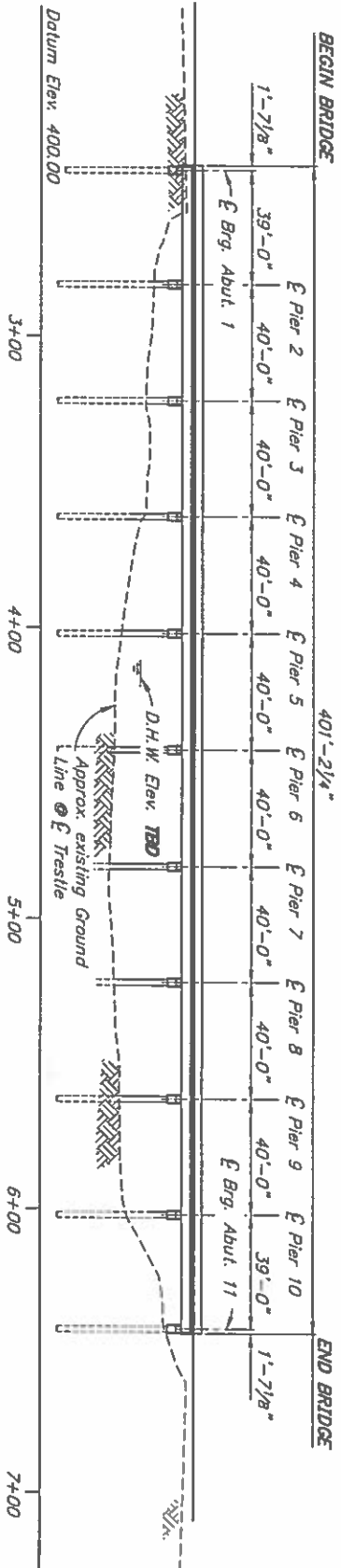
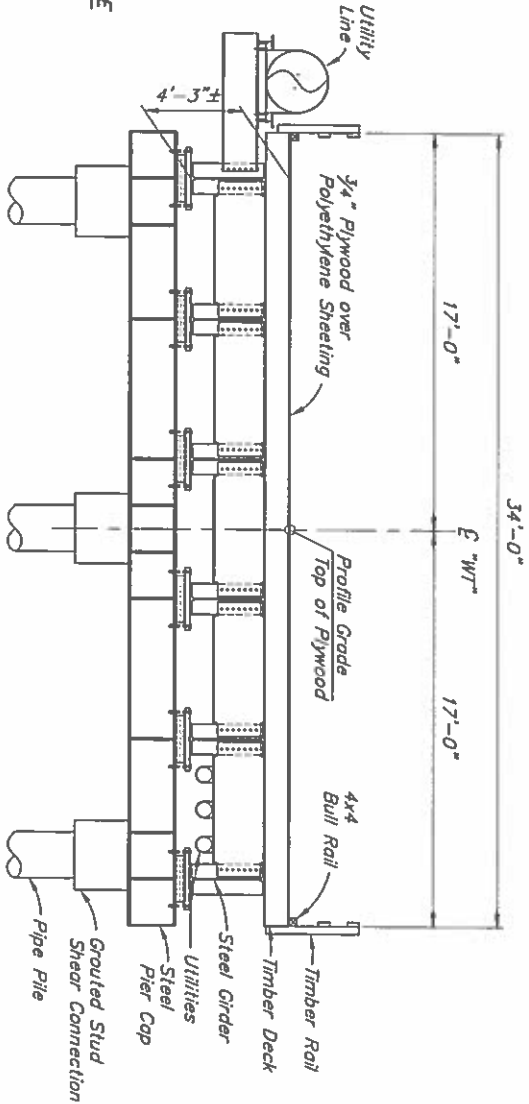
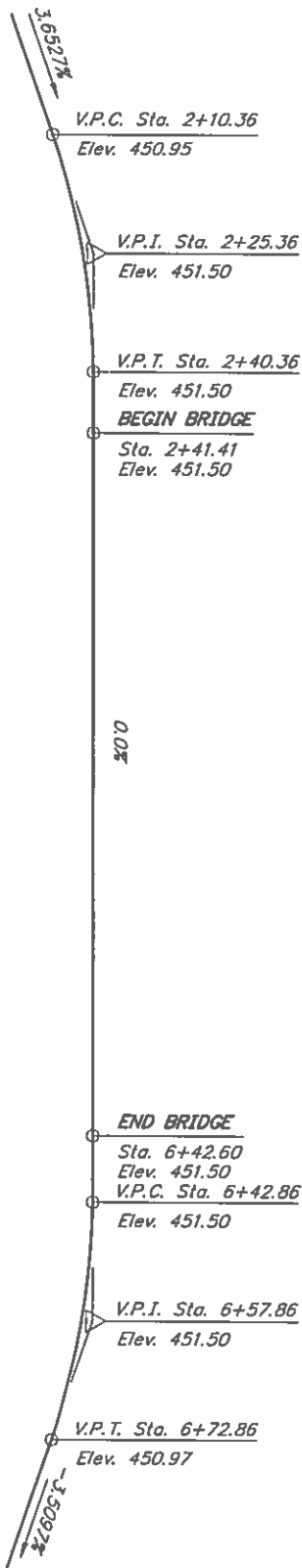
- PHASE 4**
- a) REMOVE TEMPORARY WATERLINE



UTILITIES PHASING PLAN



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z632910000	2019		



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PIERS	6
TYPICAL SECTION	7
FRAMING PLAN	8
DECK	9
GIRDER DETAILS	10
SAFETY RAILING	11
	12

REVIEW PSE