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STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

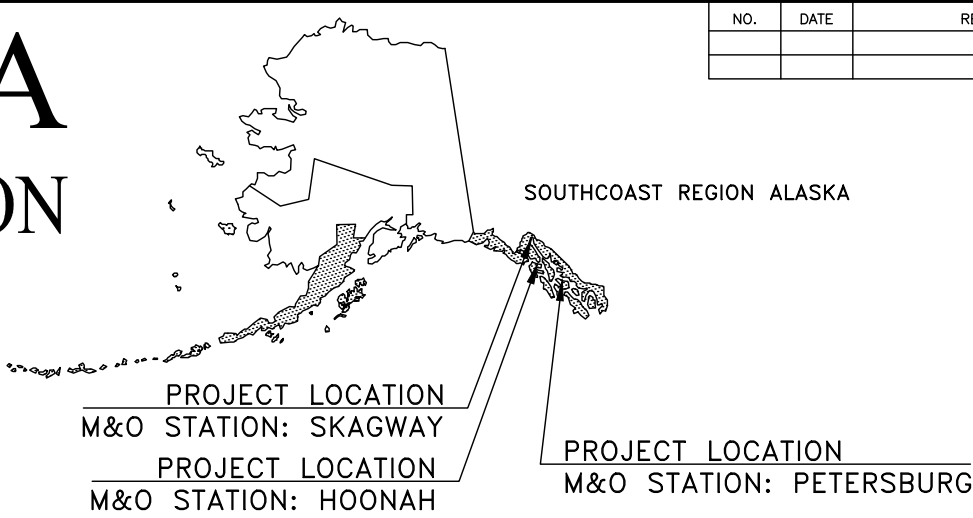
PROPOSED HIGHWAY PROJECT

PLANSET A:
SGY, HNH, PSG ROADWAY AND
CULVERTS - DEC 20 SE PR
PROJECT NO. 0093008/SFHWY00447

PRIMARY REPAIRS FOR HNH AND PSG

PLANSET B:
SGY, HNH, PSG ROADWAY AND
CULVERTS - DEC 20 SE PR
PROJECT NO. 0093008/SFHWY00447

PRIMARY REPAIRS FOR SGY



NO.	DATE	REVISIONS	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0093008/SFHWY00447	2025	AC1	AC1

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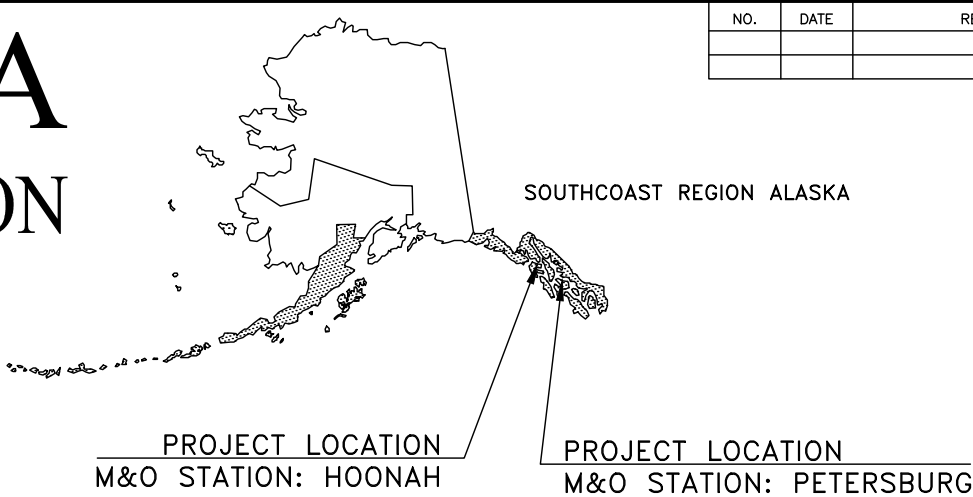
STATE OF ALASKA

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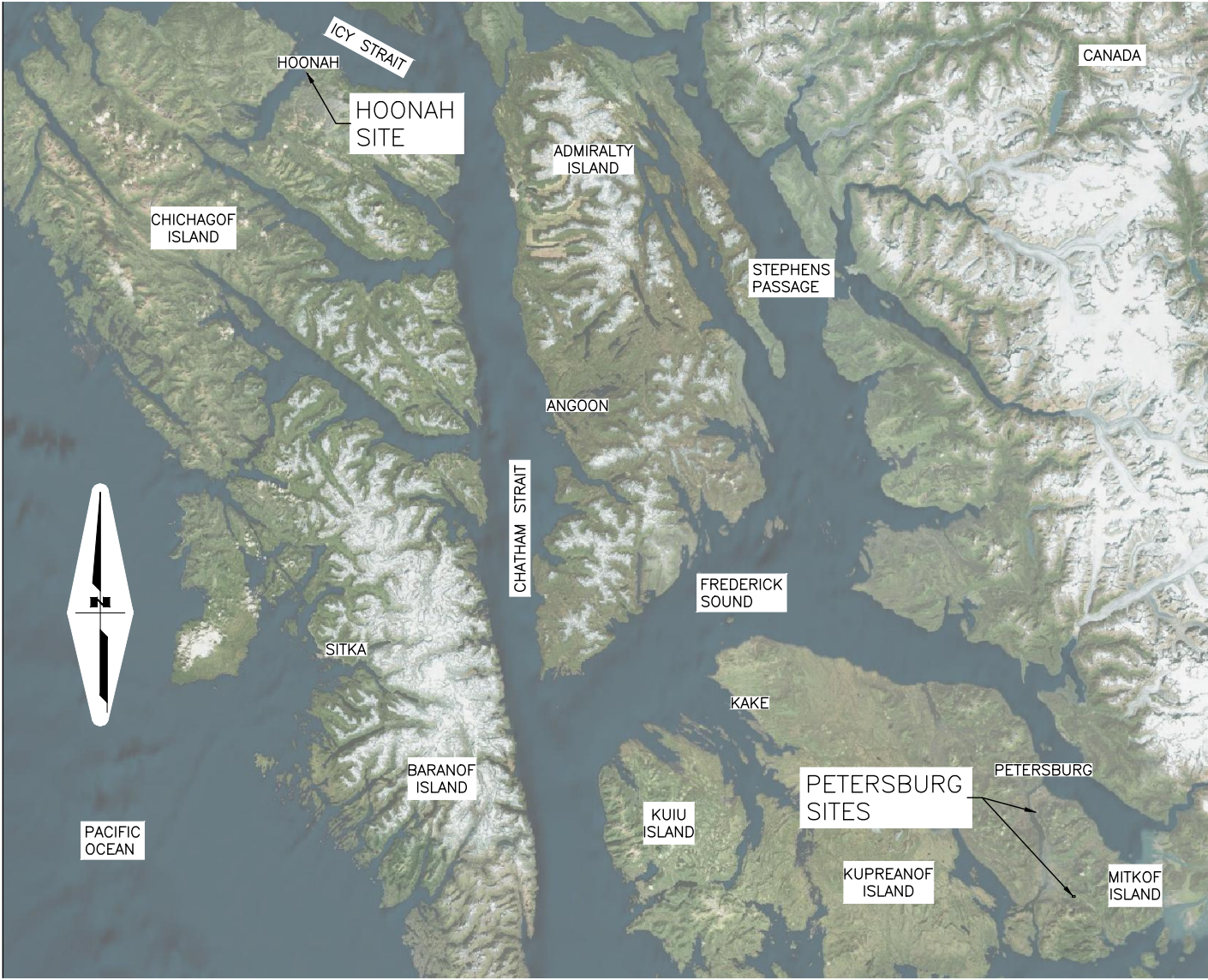
PROPOSED HIGHWAY PROJECT

PLANSET A: SGY, HNH, PSG ROADWAY AND CULVERTS - DEC 20 SE PR PROJECT NO. 0093008/SFHWHY00447

GRADING, DRAINAGE, RESURFACING, STRIPING, AND SIDE SLOPE STABILIZATION



NO.	DATE	REVISIONS	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0093008/SFHWHY00447	2025	A1	31
DDIR HNH001			ROUTE ID: 4401009X000	MILEPOINT: 0.20			
			LATITUDE: 58.11532	LONGITUDE: -165.45269			
DDIR PSG002			ROUTE ID: 4281008X000	MILEPOINT: 15.46			
			LATITUDE: 56.61932	LONGITUDE: -132.83865			
DDIR PSG003			ROUTE ID: 4281008X000	MILEPOINT: 2.57			
			LATITUDE: 56.77469	LONGITUDE: -132.96382			



DESIGN DESIGNATIONS			
PROJECT LOCATION	FRONT STREET MP 0.20	MITKOF HIGHWAY MP 2.57	MITKOF HIGHWAY MP 15.46
DDIR	HNH001	PSG003	PSG002
PROJECT TYPE	RECONSTRUCTION	RECONSTRUCTION	RECONSTRUCTION
FUNCTIONAL CLASS	MAJOR COLLECTOR	MAJOR COLLECTOR	MAJOR COLLECTOR
ADT (2022)	1,480	2,340	180
DESIGN SPEED (V)	20	40	50
WIDTH (LF)	27	15	24
LENGTH (LF)	70	50	100

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

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

APPROVED:

KIRK MILLER, P.E.
REGIONAL PRECONSTRUCTION ENGINEER

DATE

CONCUR:

CHRISTOPHER GOINS, P.E., C.M.
DIRECTOR, SOUTHCOST REGION

DATE

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0093008/SFHWY00447	2025	A2	31

	RECOVERED	SET
BLM MONUMENT		
GLO MONUMENT		
USC&GS MONUMENT		
PRIMARY MONUMENT		
CENTERLINE MONUMENT IN CASING		
PRIMARY R.O.W. MONUMENT		
BEARING OBJECT		
MISCELLANEOUS MONUMENT		
LINE OF SIGHT MONUMENT		
CONCRETE R.O.W. MONUMENT		
BENCHMARK		
REBAR AND CAP		
REBAR		
IRON PIPE		
PK NAIL		
SPIKE		
HUB AND TACK		
CONSTRUCTION CENTERLINE		
MISCELLANEOUS CENTERLINE		
STATION EQUATION	$\begin{matrix} "L"48+97.23 \text{ POT BK=} \\ "O"48+97.23 \text{ PC AHD} \end{matrix}$	
PROJECT RIGHT-OF-WAY LINE		
EXISTING RIGHT-OF-WAY LINE		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE		
UTILITY EASEMENT LINE		
TEMPORARY EASEMENT LINE (TCP OR TCE)		
ACCESS OR SECTION LINE EASEMENT		
PROPOSED CUT SLOPE LIMIT		
PROPOSED FILL SLOPE LIMIT		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
TOWNSHIP & RANGE LINE	$\begin{matrix} T. 2 \text{ N.} \\ T. 1 \text{ N.} \end{matrix}$	$\begin{matrix} T. 2 \text{ E.} \\ T. 1 \text{ E.} \end{matrix}$

	EXISTING	PROPOSED
SANITARY SEWER (FLOW DIRECTION		
FUEL LINE		
GAS LINE		
WATER LINE		
METER, VALVE, FIRE HYDRANT		
EXISTING CULVERT		
PROPOSED STORM DRAIN		
FIBER OPTIC LINE		
DIRECT BURIAL TELEPHONE CABLE		
DIRECT BURIAL ELECTRIC CABLE		
ELECTRIC LINE (OVERHEAD)		
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
GUY POLE (POWER OR TELEPHONE)		
TELEPHONE DUCT		
COMMUNICATIONS PEDESTAL		
BURIED CABLE MARKER		
FIBER OPTIC VAULT		
CATCH BASIN OR DROP INLET		
MANHOLE		
SANITARY SEWER CLEAN OUT		
ELECTRIC SWITCH		
ELECTRIC BOX		
MILE POST		
RIPRAP/DITCH LINING		
PAVEMENT		
AGGREGATE SURFACE COURSE		
GRAVEL EDGE		
DITCH RECONDITIONING		
THAW WIRE		
PEDESTRIAN RAILING		

	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE		
FENCE		
HANDRAIL		
ROCKWALL		
GUARDRAIL		
CULVERT PIPE		
SIGN		
PLANTER		
RAILROAD TRACKS		
RAILROAD DEVICES		
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
STAIRS		
EXISTING BUILDINGS		
POST OR BOLLARD		
WELL OR MONITORING WELL		
SEPTIC PIPE		
FUEL TANK FILL PIPE/VENT		
BOULDER		
FIRE HYDRANT		
CONIFER TREE		
DECIDUOUS TREE		
GRAVE		
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		
DELINEATOR/GUIDE MARKER		

H = HOUSE
G = GARAGE
M = MERCHANT/STORE
B = BARN
I = INCH
S = SHED
P = PRIVY
SS = SERVICE STATION
W = WAREHOUSE

	EXISTING	PROPOSED
JUNCTION BOX, TYPE IA		
JUNCTION BOX, TYPE II		
JUNCTION BOX, TYPE III		
SIGNAL FACE, VEHICULAR		
SIGNAL FACE, BACKPLATE		
SIGNAL FACE, LEFT TURN, BACKPLATE		
SIGNAL FACE, PEDESTRIAN		
LOOP DETECTOR		
VIDEO DETECTOR		
RADAR DETECTOR		
OPTICOM DETECTOR		
PEDESTRIAN PUSH BUTTON		
SIGNAL POST W/O MAST ARM		
SIGNAL POLE W/MAST ARM		
SIGNAL CONTROLLER		
ELECTRIC LOAD CENTER		
LUMINAIRE		
RIGID METAL CONDUIT		
POLE WITH LUMINAIRE		

ABBREVIATIONS:

APPROX	APPROXIMATELY	PT	POINT OF TANGENCY
C	CENTERLINE	PVI	POINT OF VERTICAL INTERSECTION
CY	CUBIC YARD	RT	RIGHT
E	EAST, EASTING	S	SOUTH
ELEV	ELEVATION	SQ. FT.	SQUARE FOOT
FT. '	FOOT, FEET	STA	STATION
H	HORIZONTAL	T	TANGENT
IN, "	INCH, INCHES	TYP	TYPICAL
L	LENGTH OF CURVE	V	VERTICAL
LT	LEFT	VPC	VERTICAL POINT OF CURVATURE
LVC	LENGTH OF VERTICAL CURVE	VPI	VERTICAL POINT OF INTERSECTION
MAX	MAXIMUM	VPT	VERTICAL POINT OF TANGENCY
M.E.	MATCH EXISTING	W	WEST
MIN	MINIMUM	TRM	TURF REINFORCEMENT MAT
N	NORTH, NORTHING		
NO.	NUMBER		
NTS	NOT TO SCALE		
PC	POINT OF CURVATURE		
POT	POINT ON TANGENT		

PLANS DEVELOPED BY:
HDR ENGINEERING, INC.
582 E 36TH AVE STE 500
ANCHORAGE, AK 99503-4169
(907) 644-2000
CERT. OF AUTH. AECC569



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
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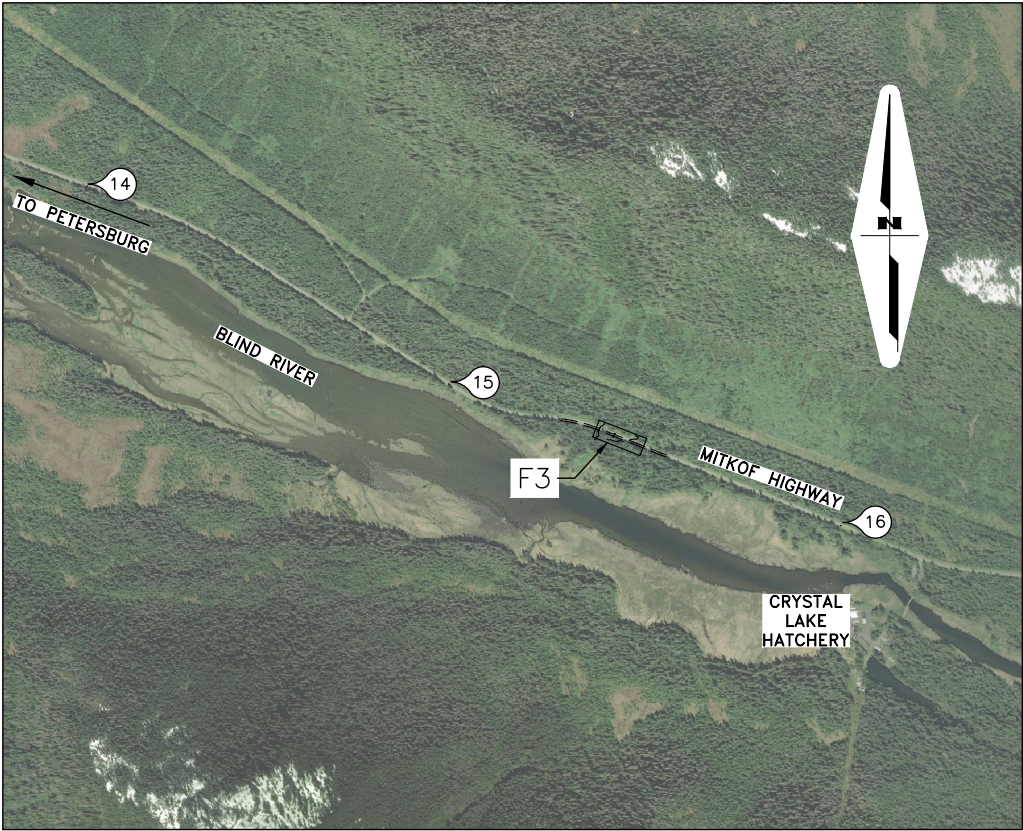
HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

LEGEND

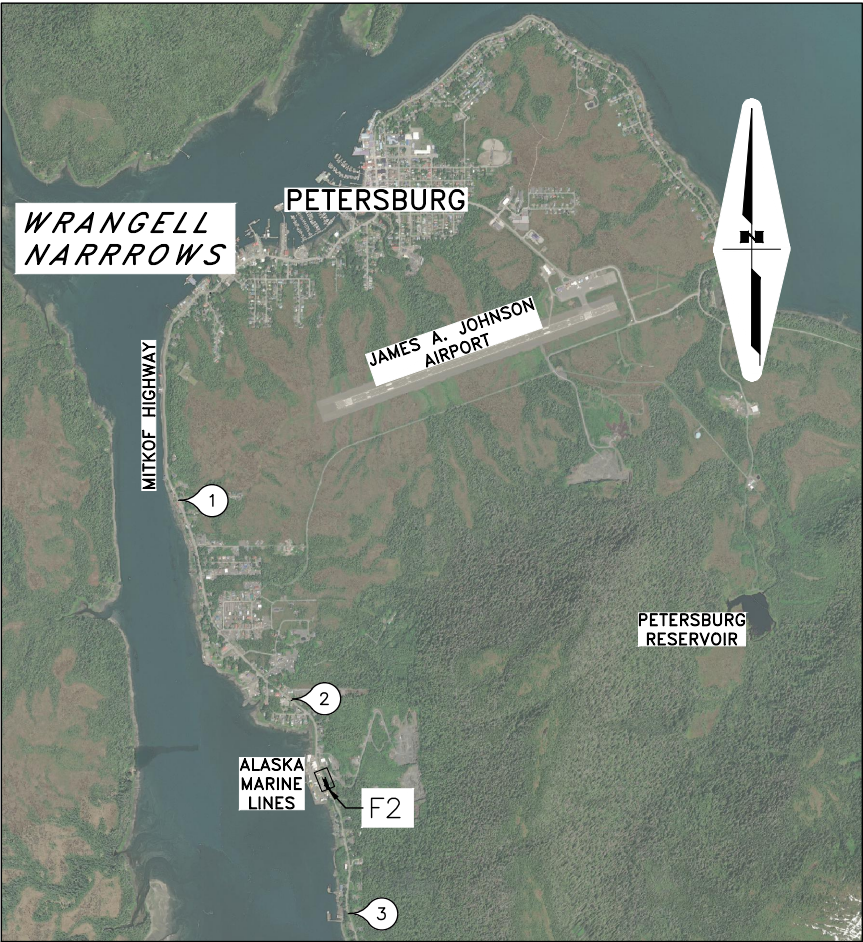
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FRONT STREET MPT 0.20
DDIR HNH001



MITKOF HIGHWAY MPT 15.46
DDIR PSG002



MITKOF HIGHWAY MPT 2.57
DDIR PSG003

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0093008/SFHWY00447	2025	A3	31

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A1	TITLE
A2	LEGEND
A3	LAYOUT AND SHEET INDEX
A4	SURVEY CONTROL
B1–BX	TYPICAL SECTIONS
C1	NOT INCLUDED IN THIS SUBMITTAL
D1	NOT INCLUDED IN THIS SUBMITTAL
E1–EX	DETAILS
F1–FX	PLAN AND PROFILE
H1	GENERAL STRIPING DETAIL
P1–PX	PIPE DETAILS
T1–TX	TRAFFIC CONTROL PLAN

THE FOLLOWING STANDARD PLANS APPLY:
C–03.30, C–06.00
D–01.02, D–04.22, D–08.00, D–09.00, D–13.10, D–31.01
E–09.00
I–20.20
T–21.04

- GENERAL NOTES:
- MAKE ALL PAVEMENT CUTS CLEAN, VERTICAL, AND TRUE TO REMOVAL LIMITS SHOWN ON PLANS.

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HNH PSG SGY ROADWAY AND CULVERTS
– DEC 20 SE PR

LAYOUT AND SHEET INDEX

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0093008/SFHWHY00447	2025	A4	31

SURVEY CONTROL SHEET PLACEHOLDER

PLANS DEVELOPED BY:
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HNN PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

SURVEY CONTROL

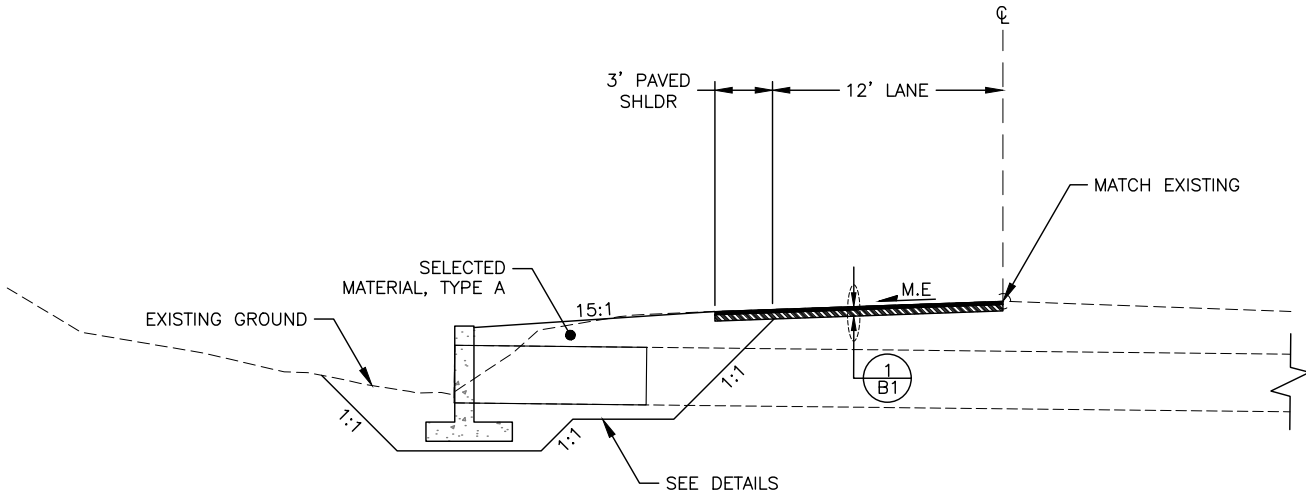
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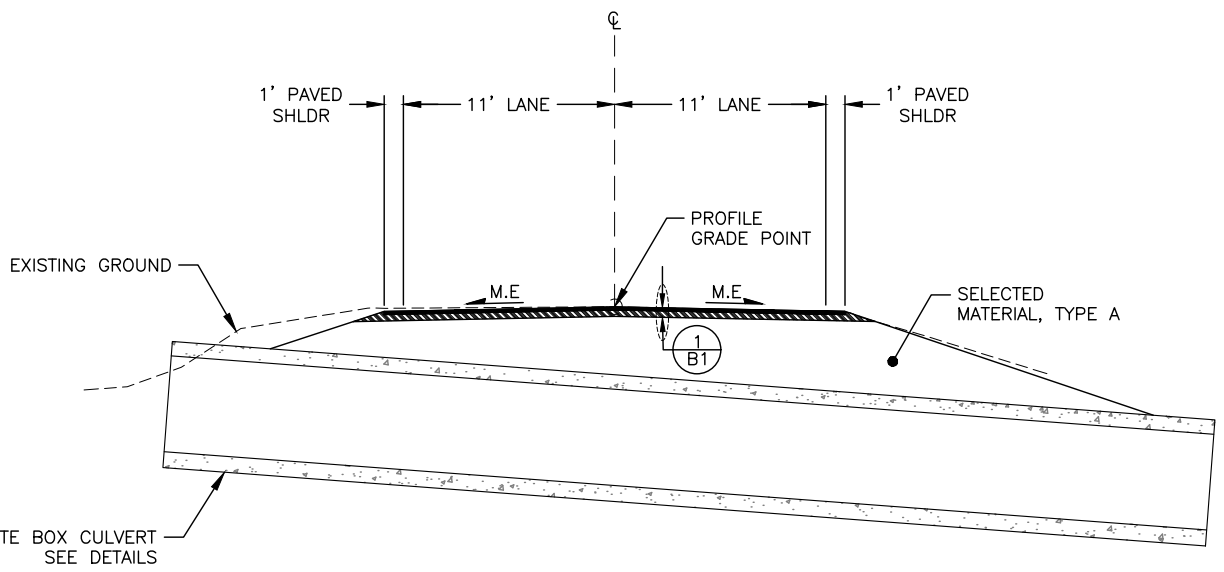
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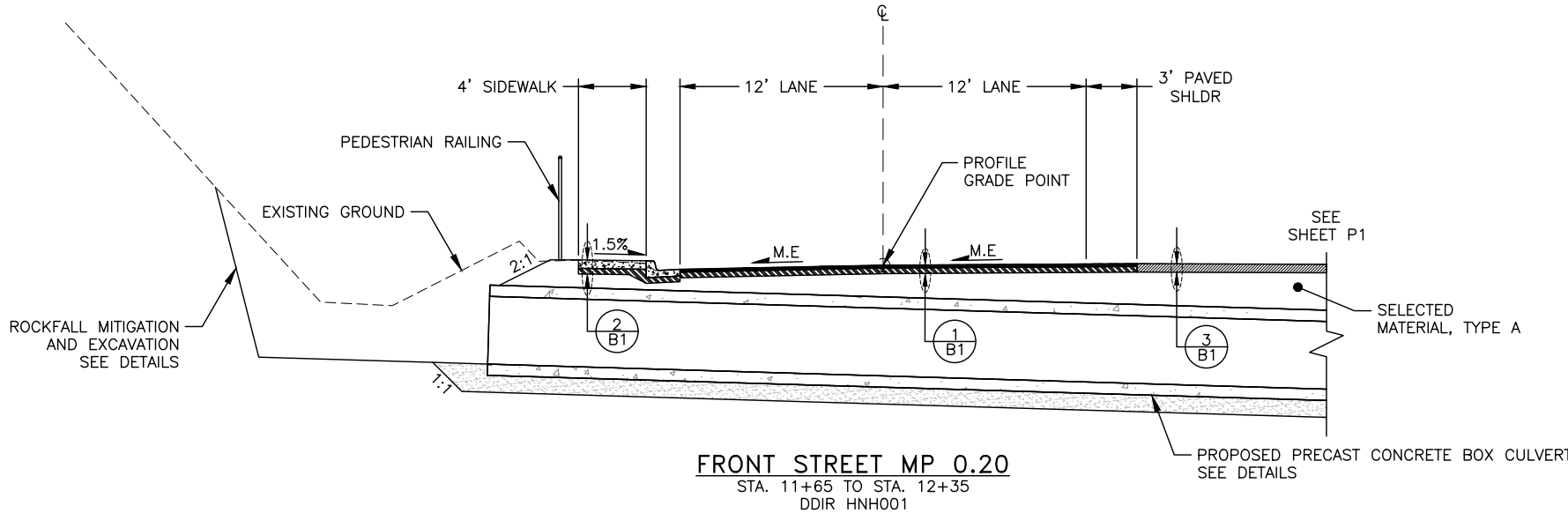
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			ALASKA	0093008/SFHWY00447	2025	B1	31



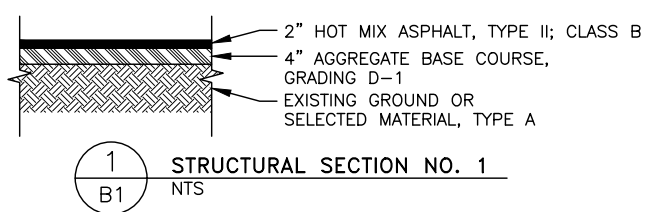
MITKOF HIGHWAY MP 2.57
STA. 20+45 TO STA. 20+95
DDIR PSG003



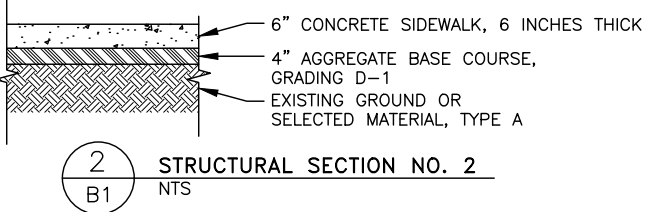
MITKOF HIGHWAY MP 15.46
STA. 40+65 TO STA. 41+65
CULVERT SLOPE AND PROPOSED FORESLOPES ARE EXAGGERATED DUE TO SKEW
RELATIVE TO HIGHWAY CENTERLINE
DDIR PSG002



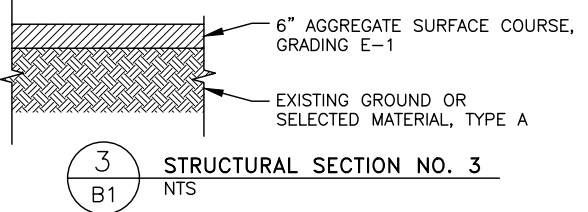
FRONT STREET MP 0.20
STA. 11+65 TO STA. 12+35
DDIR HNH001



STRUCTURAL SECTION NO. 1
NTS



STRUCTURAL SECTION NO. 2
NTS



STRUCTURAL SECTION NO. 3
NTS

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AND PUBLIC FACILITIES
HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

TYPICAL SECTIONS

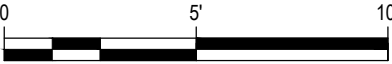
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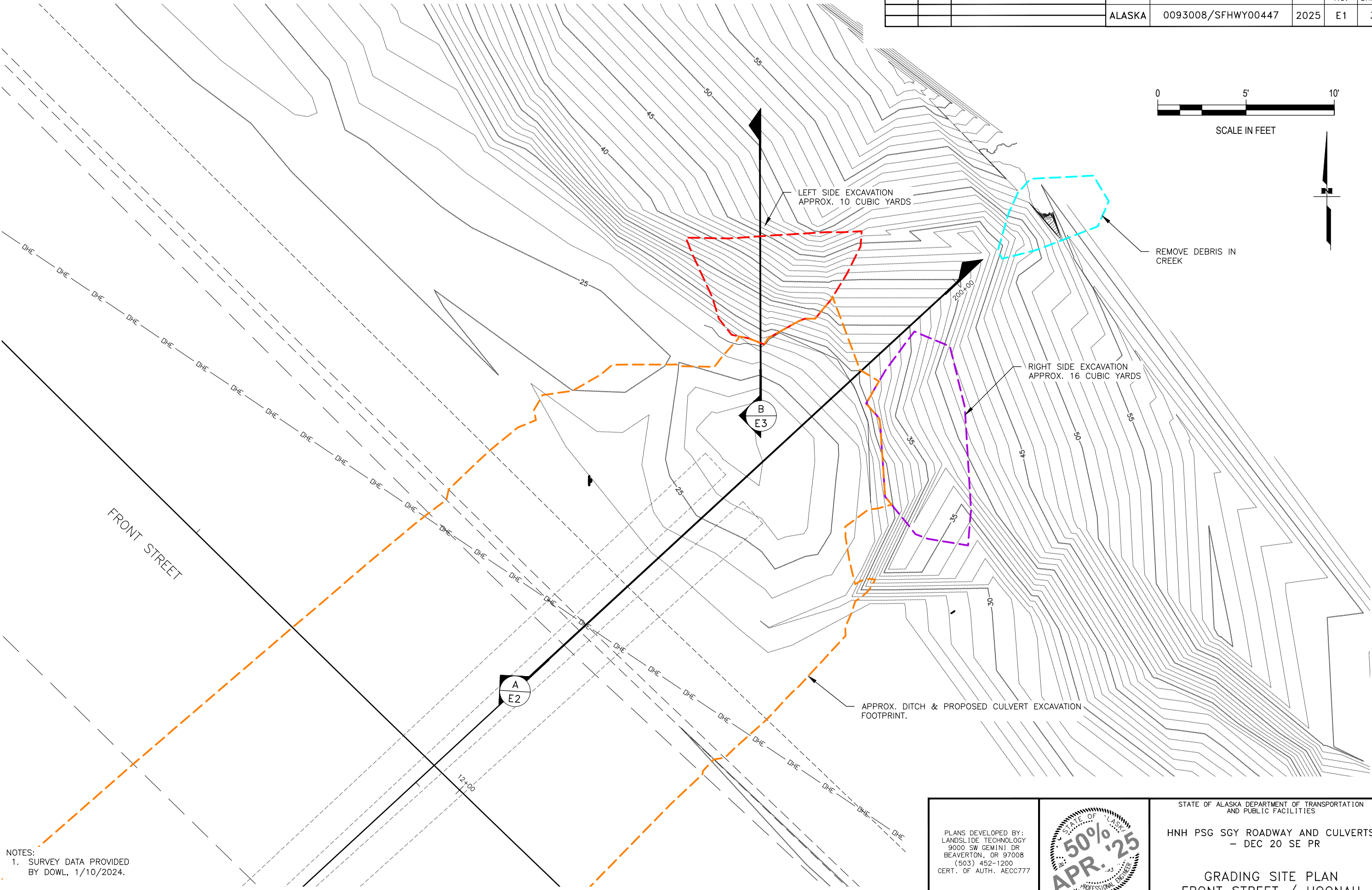
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0093008/SFHWHY00447	2025	E1	31



SCALE IN FEET



NOTES:
1. SURVEY DATA PROVIDED
BY DOWL, 1/10/2024.

PLANS DEVELOPED BY:
LANDSLIDE TECHNOLOGY
9000 SW GEMINI DR
BEAVERTON, OR 97008
(503) 452-1200
CERT. OF AUTH. AECC777

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HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

GRADING SITE PLAN
FRONT STREET / HOONAH

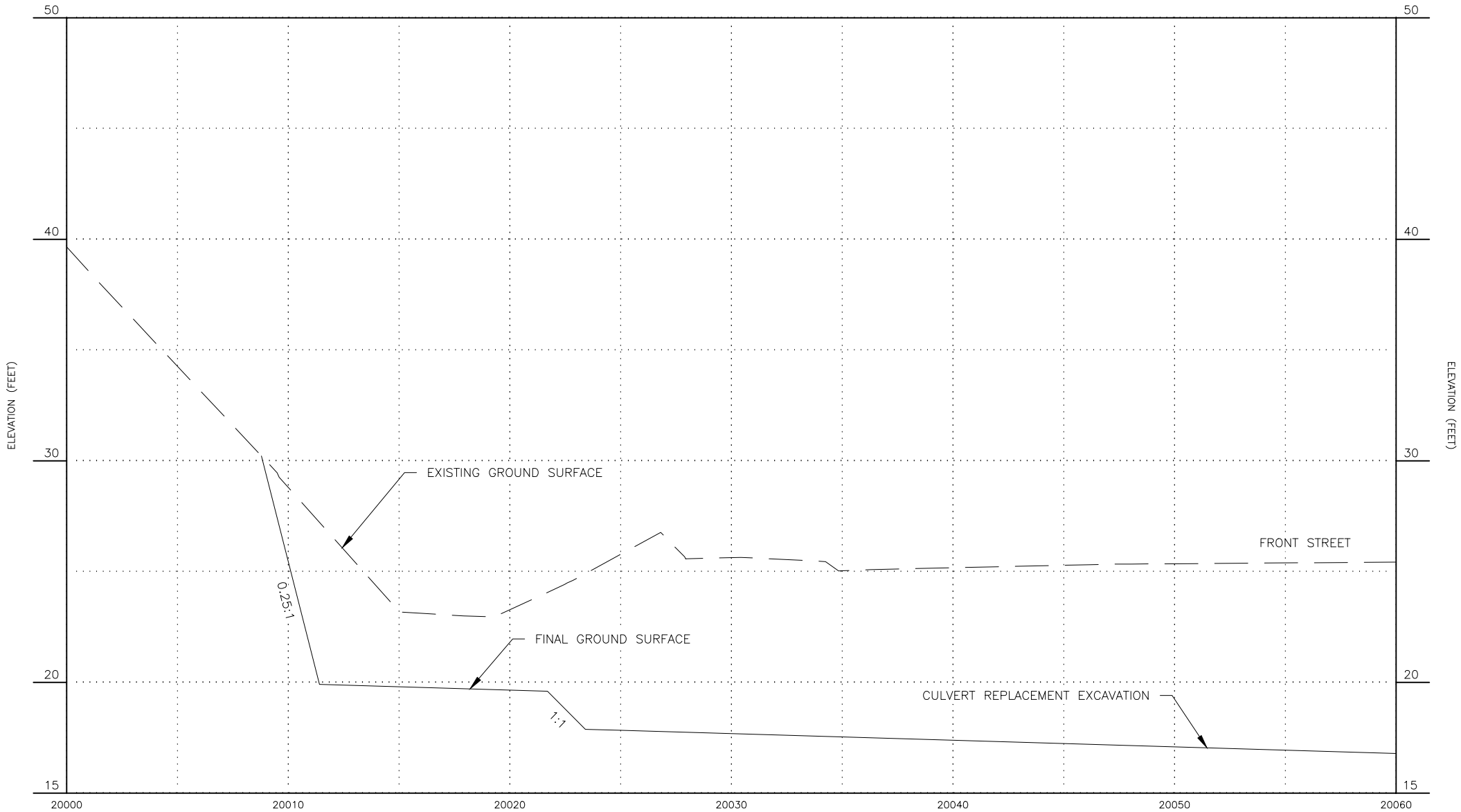
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0093008/SFHWHY00447	2025	E2	31



A
E2

FRONT STREET SECTION A-A

SCALE: 1"=3'

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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

TYPICAL SECTION A-A
FRONT STREET / HOONAH

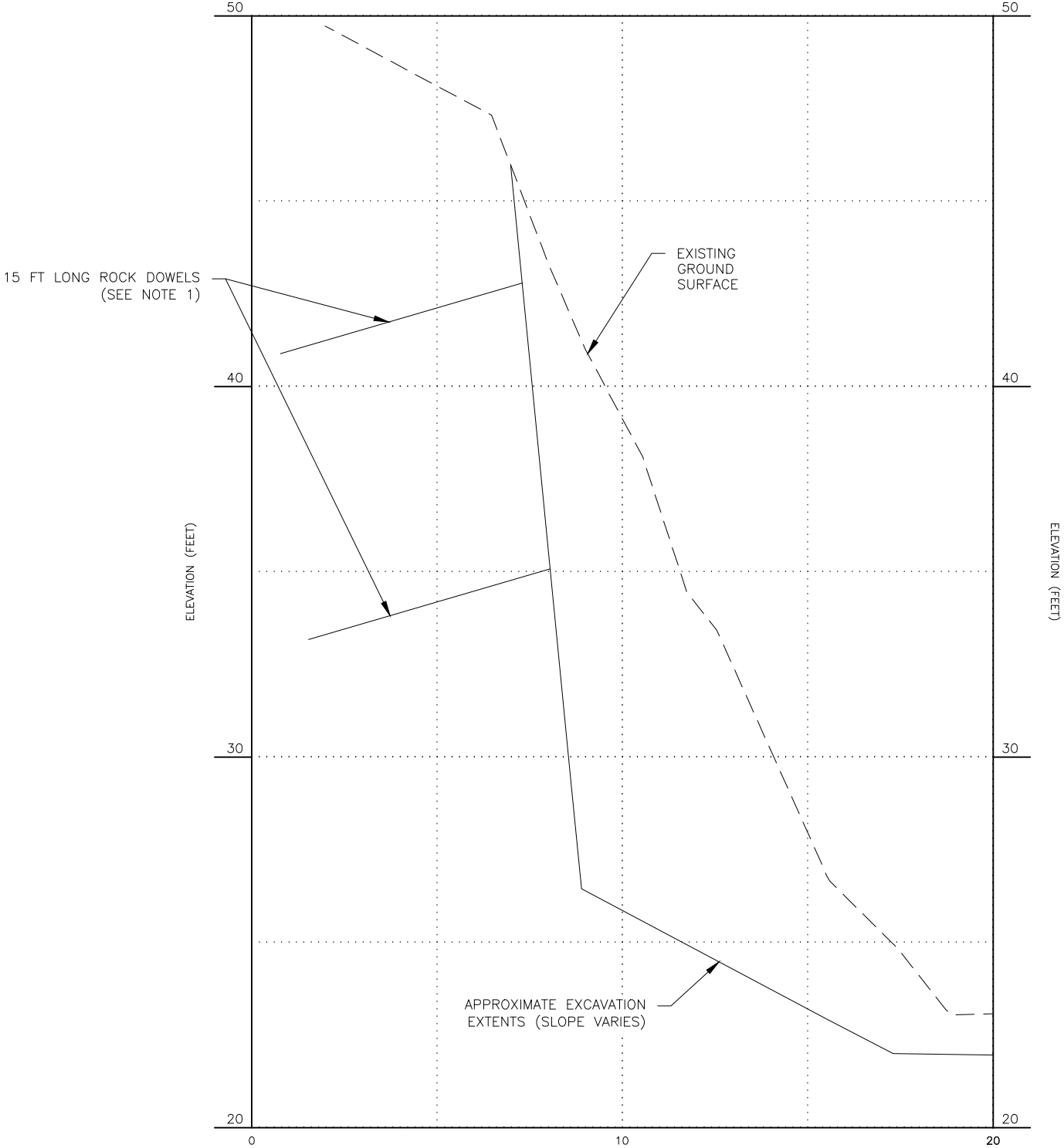
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			ALASKA	0093008/SFHWHY00447	2025	E3	31



- NOTES:
1. INSTALL ROCK DOWELS AT LOCATIONS IDENTIFIED IN THE FIELD BY THE ENGINEER.

B
E3 FRONT STREET SECTION B-B
SCALE: 1"=2'

PLANS DEVELOPED BY:
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HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

TYPICAL SECTION B-B
FRONT STREET / HOONAH

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			ALASKA	0093008/SFHWHY00447	2025	E4	31

LEGEND
15 FT. LONG ROCK DOWEL

CREEK ABOVE SLOPE

REMOVE DEBRIS IN CREEK

LEFT SIDE EXCAVATION APPROX. 10 CUBIC YDS.

RIGHT SIDE EXCAVATION APPROX. 16 CUBIC YDS.

APPROX. ROCK DOWEL LOCATIONS. SEE NOTE 2

APPROX. ROCK DOWEL LOCATIONS. SEE NOTE 2

APPROX. DITCH EXCAVATION FOOTPRINT. APPROX. 6 FEET BELOW CURRENT ROAD GRADE.

APPROX. 16 FT.

APPROX. 16 FT.

APPROX. 13 FT.

APPROX. EXISTING CULVERT LOCATIONS

NOTES:

1. ADDITIONAL ROCK DOWELS MAY BE NECESSARY TO SUPPORT ROCK BLOCKS BEHIND EXCAVATION AREAS.
2. ROCK DOWEL LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER

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HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

ROCKFALL MITIGATION CONCEPTS
FRONT STREET, HOONAH

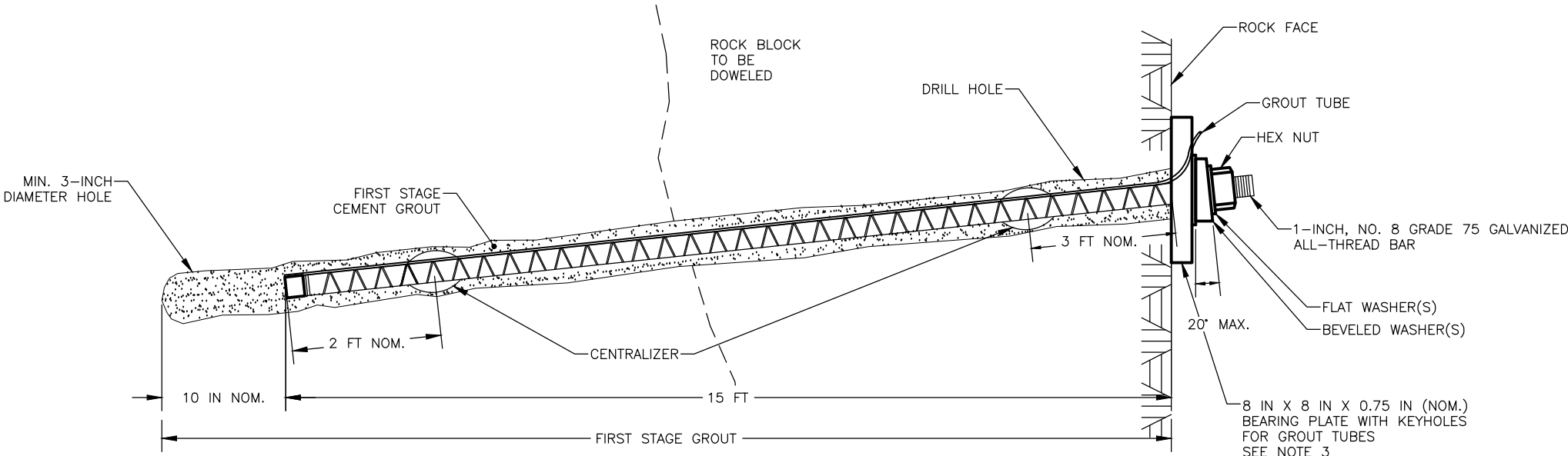
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			ALASKA	0093008/SFHWY00447	2025	E5	31



LIFT-OFF TESTING CYCLE (ROCK DOWELS ONLY)		
STEP	LOAD (KIPS)	NOTES
1	-	CHECK FIRST STAGE GROUT LEVEL BEFORE TESTING, SUPPLEMENT GROUTING AS NECESSARY
2	10	TENSION DOWEL TO TEST LOAD, HOLD FOR 10 MINUTES, MONITOR TENSION
3	-	RELEASE JACK PRESSURE, TIGHTEN HARDWARE

- NOTES:
1. INSTALL ROCK DOWELS AT THE LOCATIONS, ORIENTATIONS, AND LENGTHS AS DETERMINED BY THE ENGINEER IN THE FIELD. APPROXIMATE LOCATIONS AND LENGTHS SHOWN ON THE DETAILED PHOTOGRAPHS.
 2. ORIENT KEYHOLES ON BEARING PLATE UPWARD FOR MAXIMUM GROUT RETENTION.
 3. GROUT LOSS AND HIGH GROUNDWATER SHOULD BE ANTICIPATED AND ACCOUNTED FOR THE IN THE GROUTING OPERATIONS. USE OF GROUT SOCKS IS RECOMMENDED. SELECT GROUT SOCKS FOR THE APPROPRIATE DRILL HOLE DIAMETER AS RECOMMENDED BY THE SOCK MANUFACTURER.

DRAWING NTS

PLANS DEVELOPED BY:
LANDSLIDE TECHNOLOGY
9000 SW GEMINI DR
BEAVERTON, OR 97008
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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HNL PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

ROCK DOWEL DETAIL

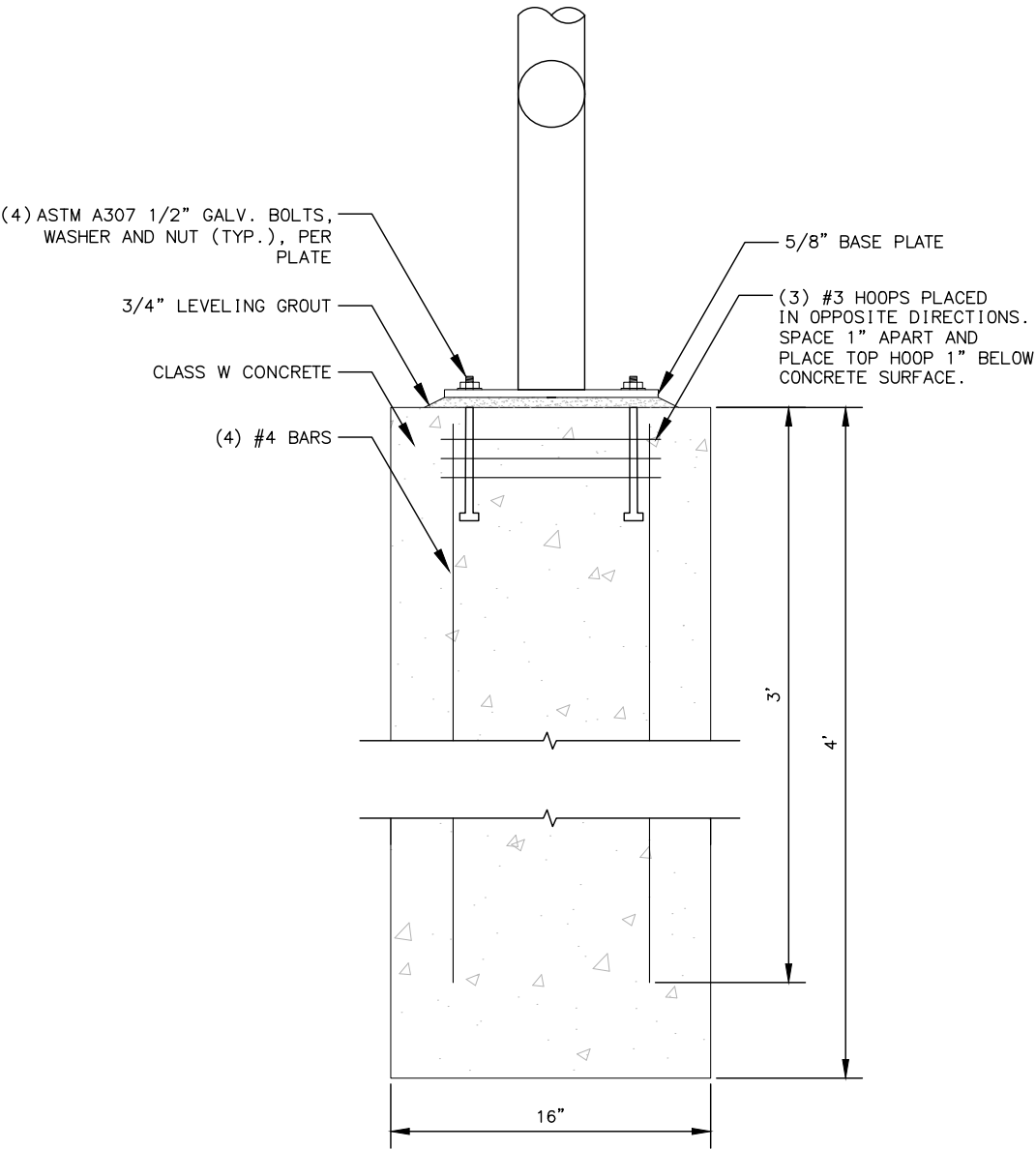
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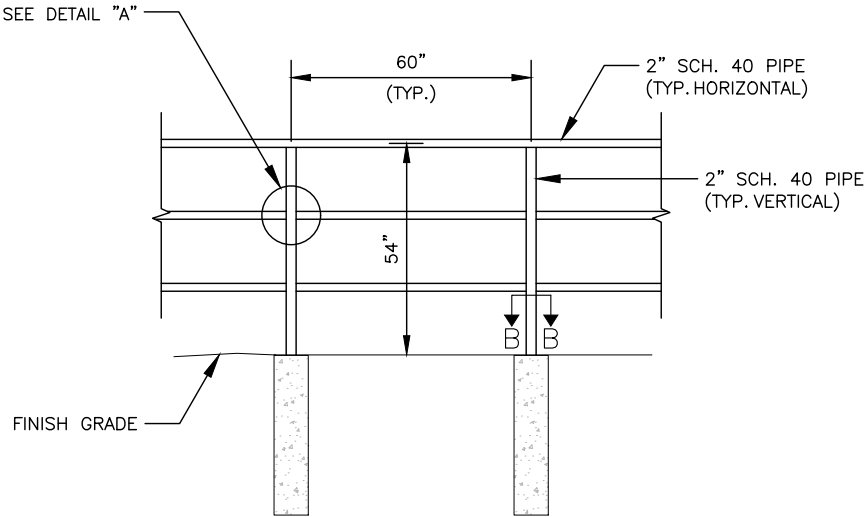
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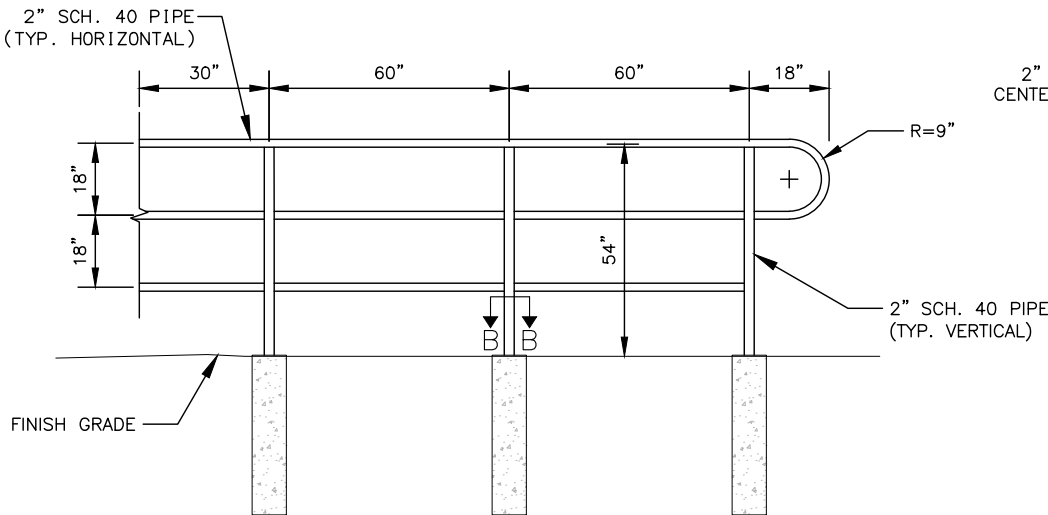
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			ALASKA	0093008/SFHWY00447	2025	E6	31



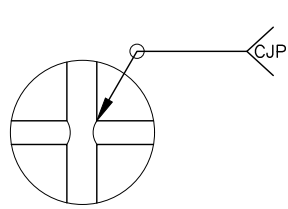
FOUNDATION AND CONNECTION DETAIL
NTS



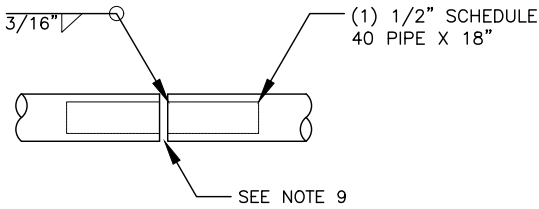
TYPICAL SECTION VIEW



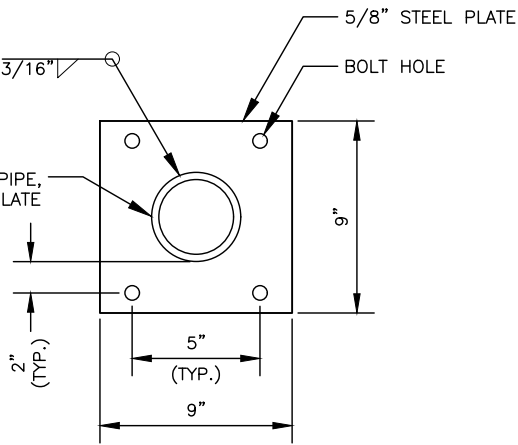
END SECTION VIEW



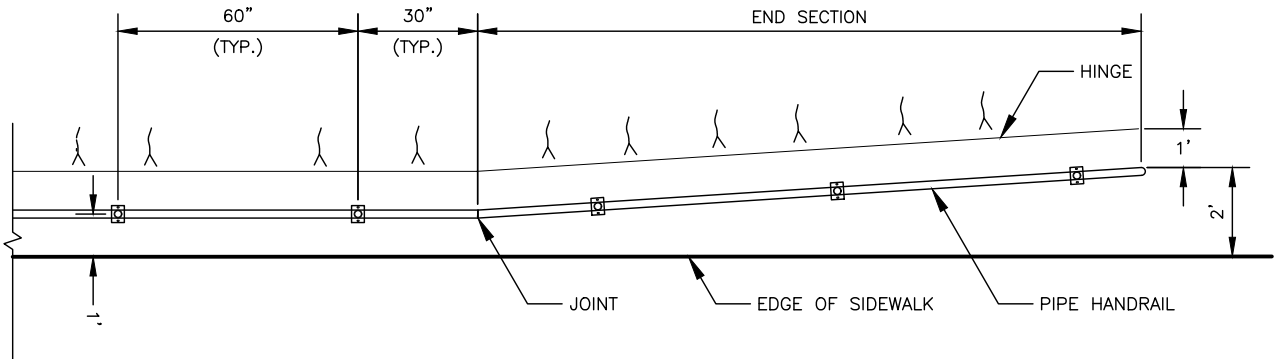
DETAIL "A"



EXPANSION JOINT DETAIL



SECTION B-B



RAIL TERMINATION PLAN VIEW

PIPE HAND RAIL NOTES:

- DIMENSIONS ON TYPICAL SECTION AND END SECTION ARE SHOWN TO CENTER OF PIPE.
- STEEL PIPE SHALL BE HOT-DIPPED GALVANIZED.
- ALL FIXED JOINTS TO BE WELDED ALL AROUND AND GROUND SMOOTH.
- ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE, (STEEL) ANSI/AWS D1.1 (CURRENT EDITION).
- BASE PLATES SHALL BE IN ACCORDANCE WITH ASTM A36.
- PLACE #4 VERTICAL BARS ON THE OUTSIDE EDGE AND ADJACENT TO EACH ANCHOR BOLT.
- MINIMUM ANCHOR BOLT EMBEDMENT IS 5".
- SECTION B-B IS PARALLEL TO PAVEMENT EDGE.
- AN EXPANSION JOINT IS TO BE INCLUDED EVERY 30'.

PIPE HAND RAIL

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ANCHORAGE, AK 99503-4169
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AND PUBLIC FACILITIES
HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR
PIPE HAND RAIL DETAILS

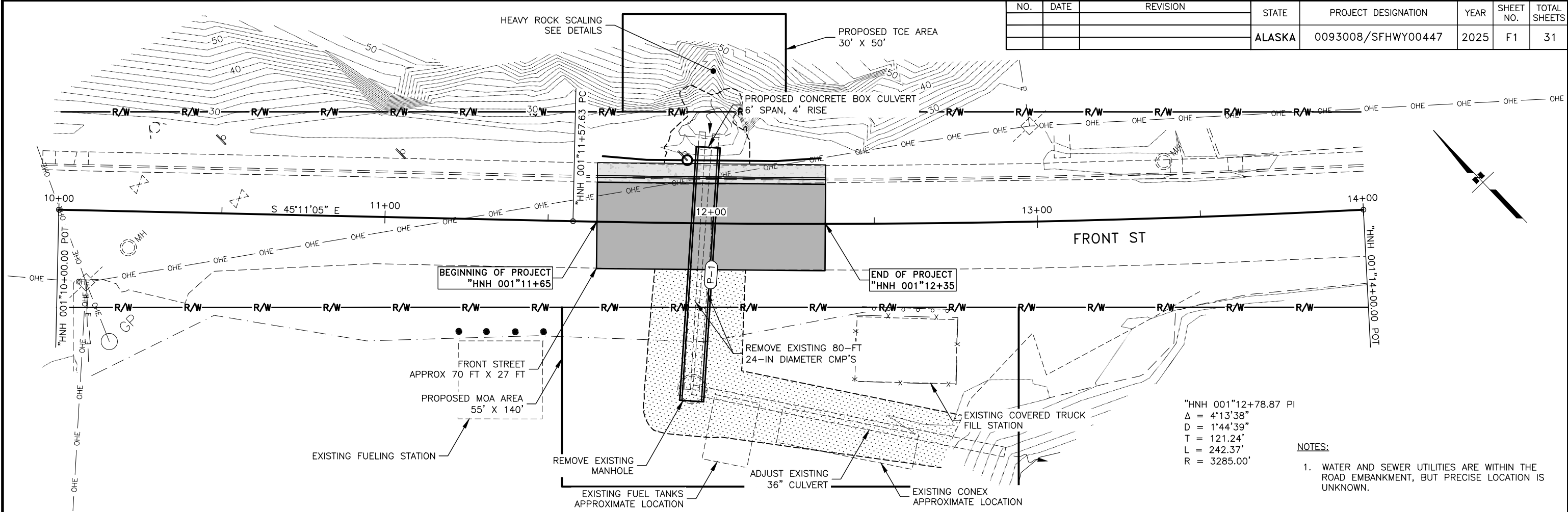
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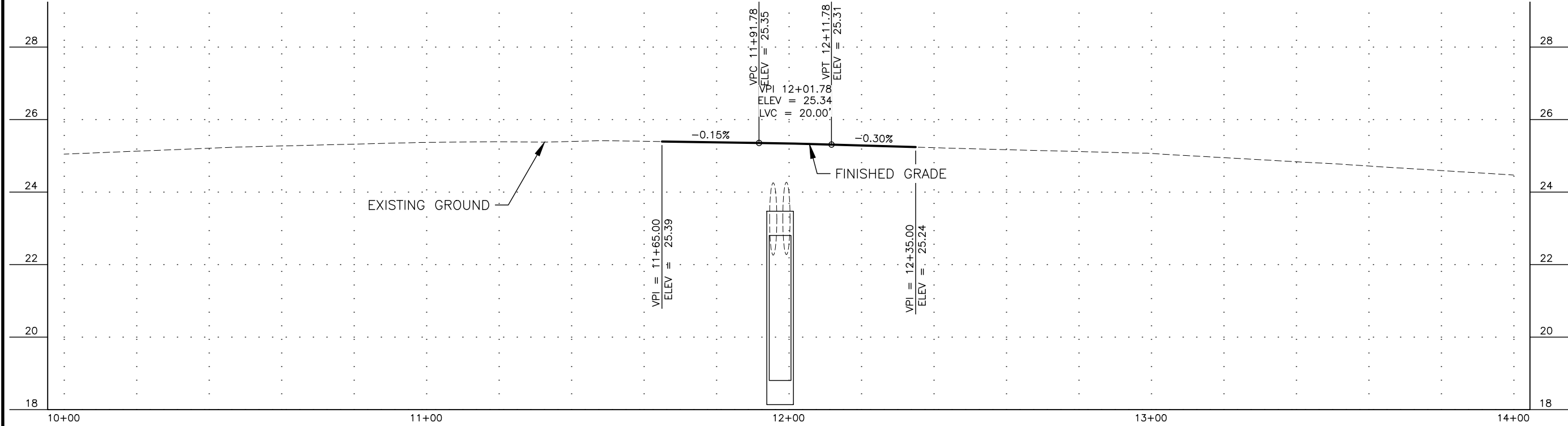
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			ALASKA	0093008/SFHWY00447	2025	F1	31



"HNH 001"12+78.87 PI
Δ = 4'13'38"
D = 1'44'39"
T = 121.24'
L = 242.37'
R = 3285.00'

- NOTES:
1. WATER AND SEWER UTILITIES ARE WITHIN THE ROAD EMBANKMENT, BUT PRECISE LOCATION IS UNKNOWN.



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HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

FRONT STREET MP 0.20
PLAN AND PROFILE

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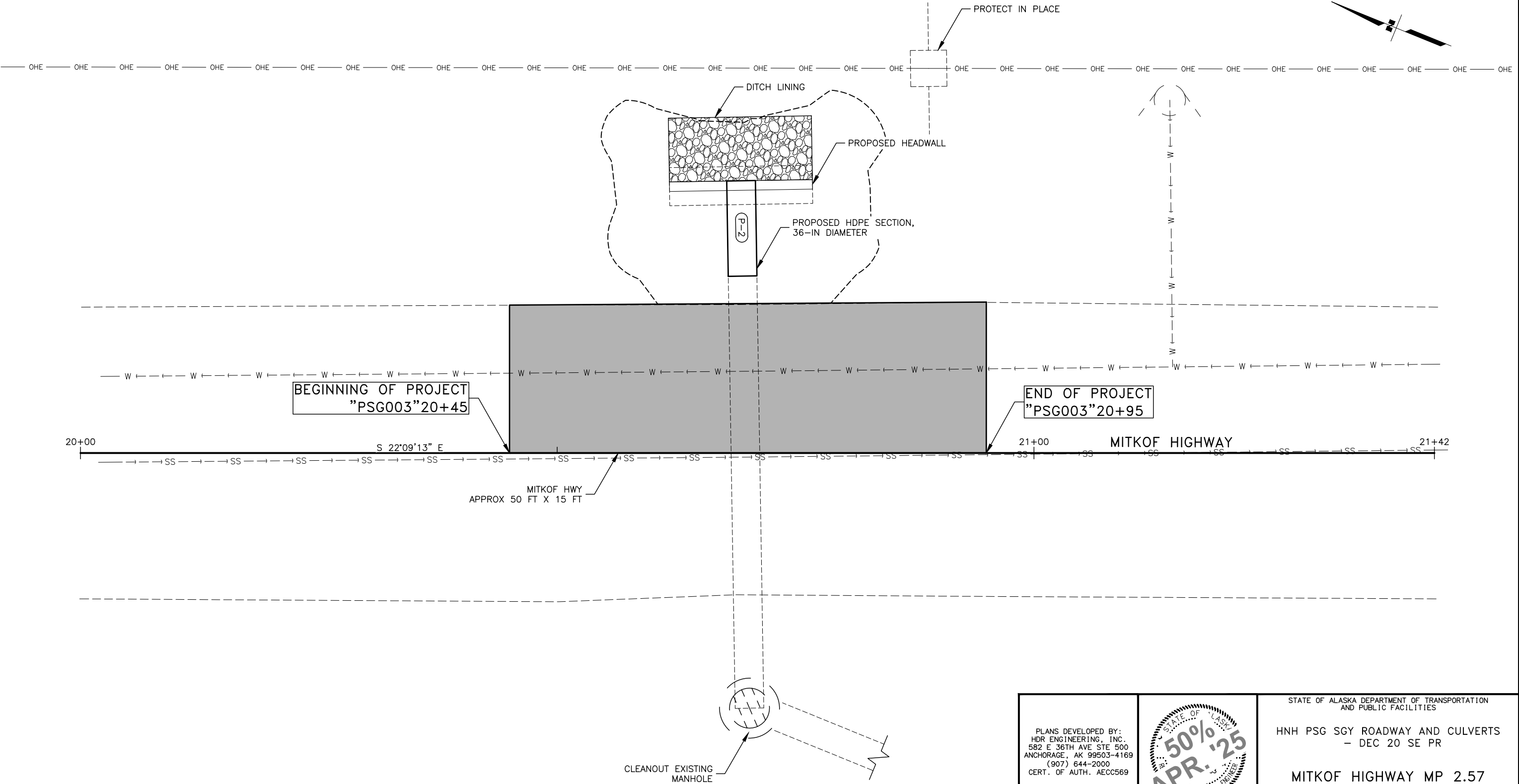
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			ALASKA	0093008/SFHWHY00447	2025	F2	31

- NOTES:
1. REMOVE AND REPLACE INLET SECTION OF 36 IN CORRUGATED HDPE CULVERT BACK TO COUPLING BAND, APPROXIMATELY 10 FT FROM CULVERT INLET.
 2. REPLACEMENT PIPE GRADE SHALL MATCH THE GRADE OF THE EXISTING CULVERT.
 3. INSTALL TYPE II HEADWALL AT INLET.



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- DEC 20 SE PR

MITKOF HIGHWAY MP 2.57
PLAN AND PROFILE

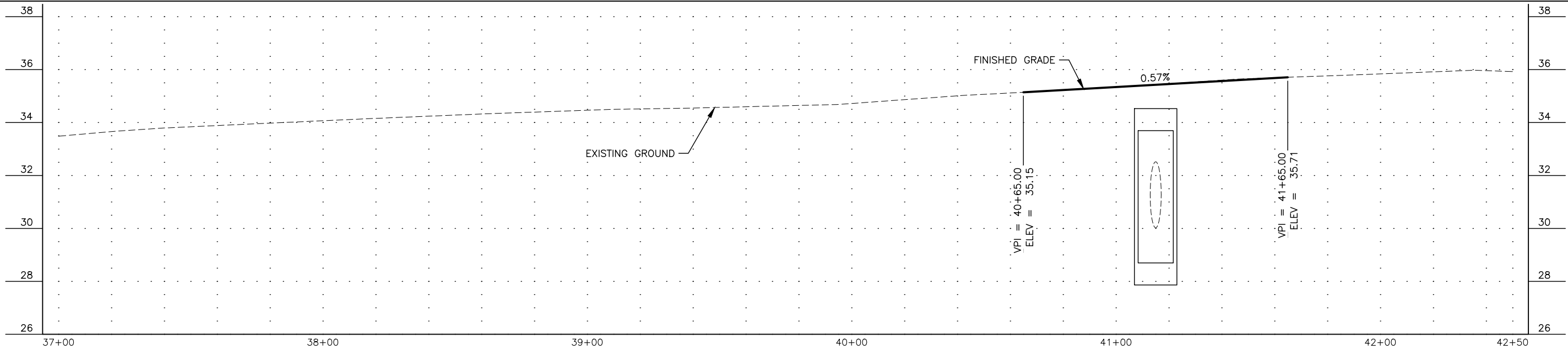
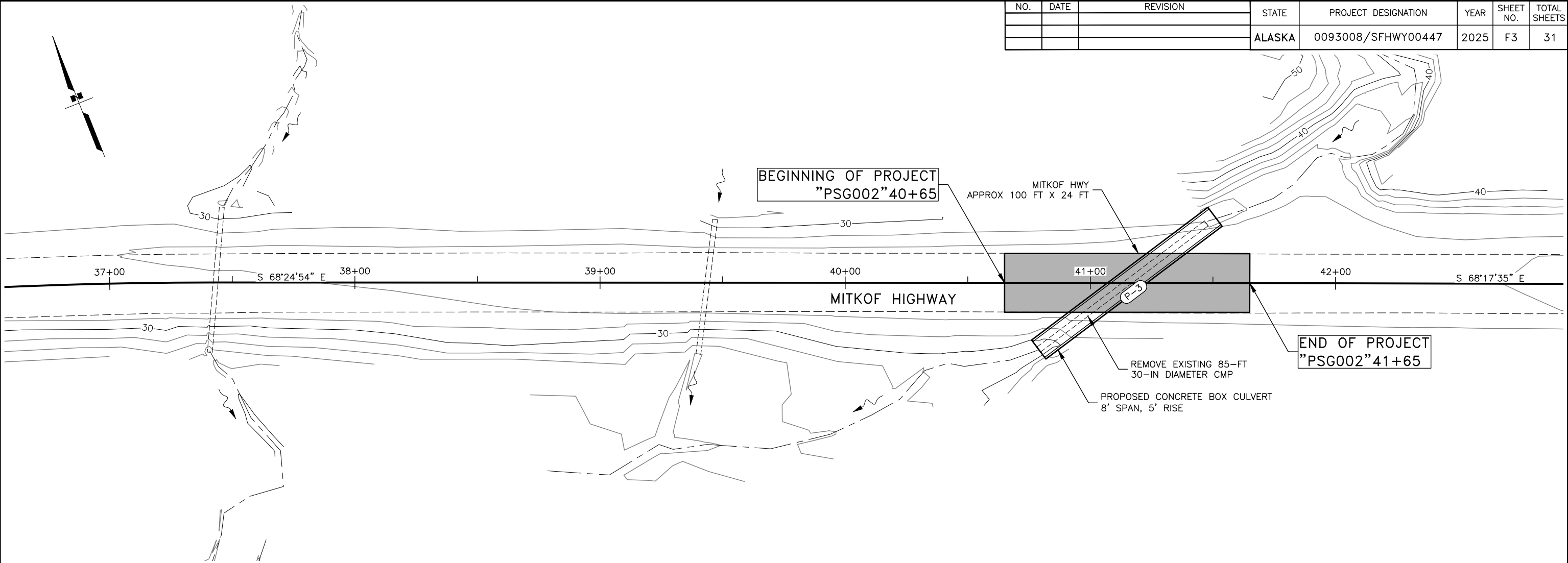
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- DEC 20 SE PR

MITKOF HIGHWAY MP 15.46
PLAN AND PROFILE

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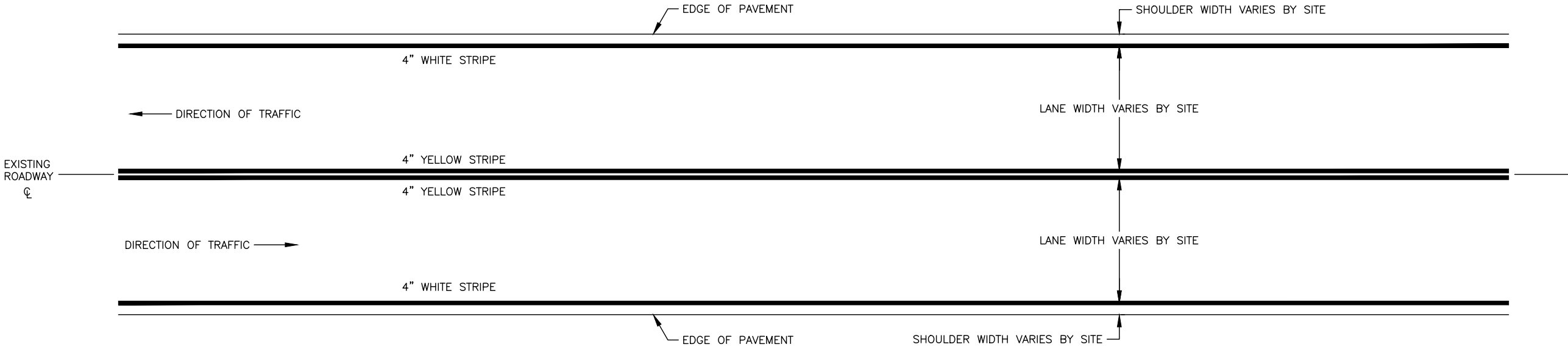
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			ALASKA	0093008/SFHWY00447	2025	H1	31

NOTES:

1. DIMENSIONS REFER TO THE CENTER OF STRIPE AND THE EDGE OF PAVEMENT.
2. IF THE NEW EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT THE MATCH LINE, TRANSITION BETWEEN THE TWO USING A 55:1 TAPER ON THE NEW PAVEMENT.



STRIPING DETAIL

DDIR PSG003 - STA. 20+45 TO STA. 20+95
DDIR PSG002 - STA. 40+65 TO STA. 41+65
DDIR HNH001 - STA. 11+65 TO STA. 12+35

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- DEC 20 SE PR

GENERAL STRIPING DETAIL

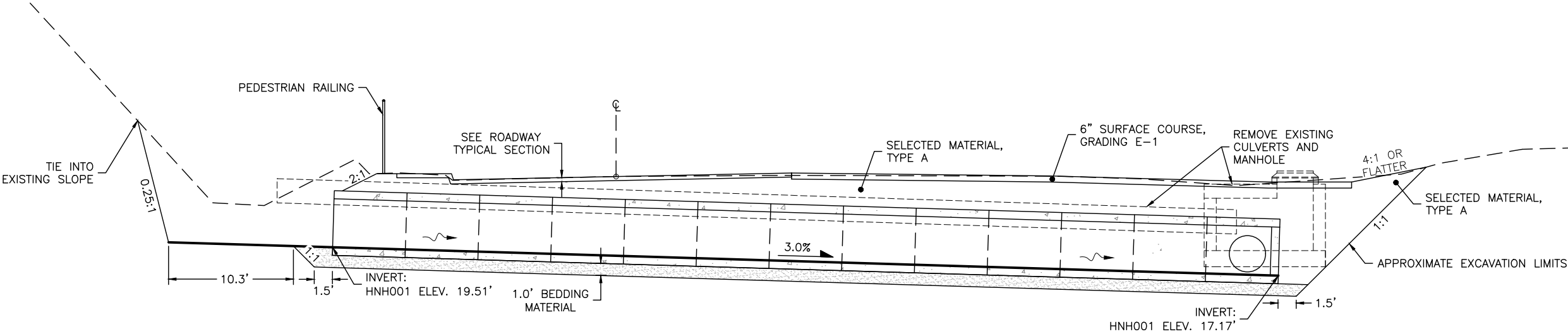
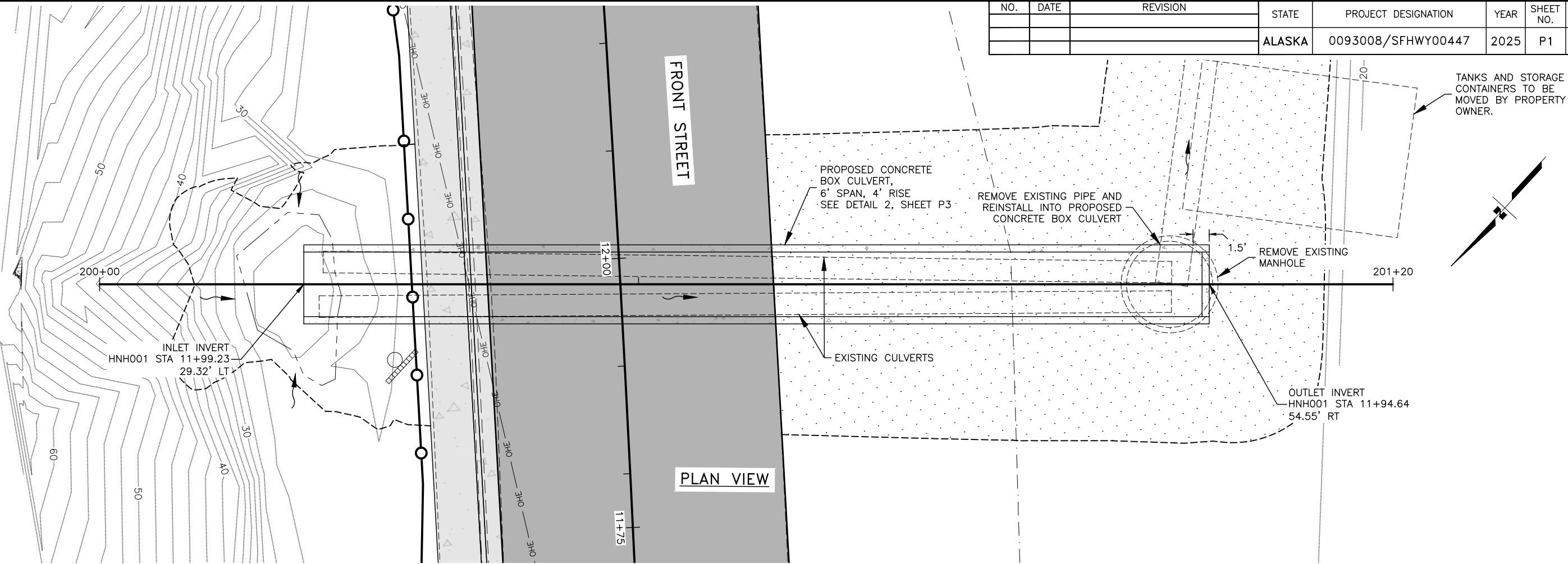
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SECTION VIEW
FRONT STREET BOX CULVERT,
PRECAST REINFORCED CONCRETE, 6'0" SPAN, 4'0" RISE

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- DEC 20 SE PR

FRONT ST MP 0.20
CULVERT PLAN AND
PROFILE

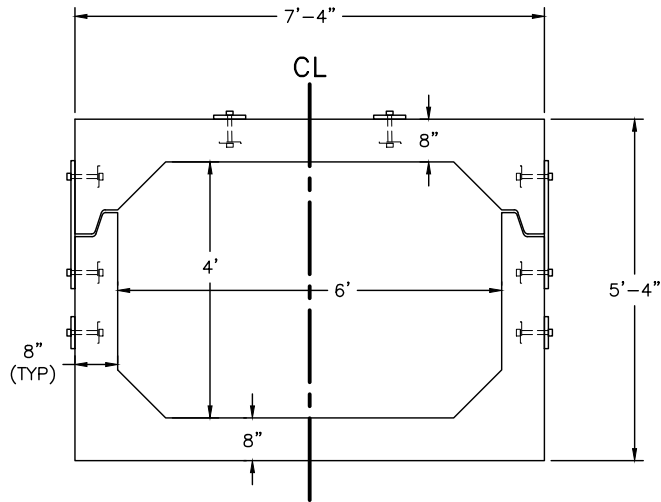
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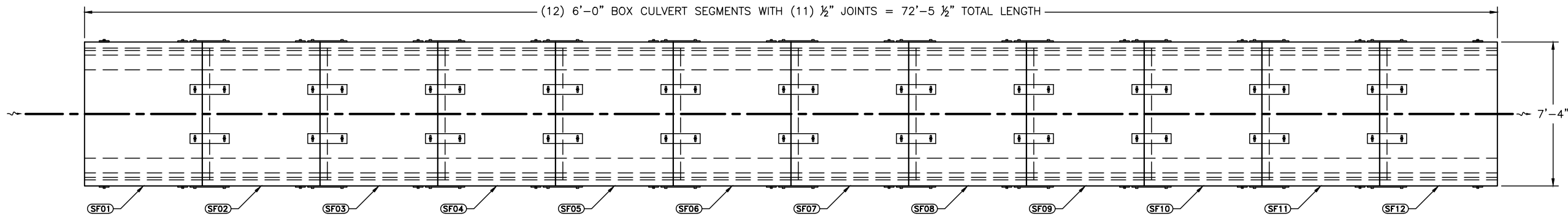
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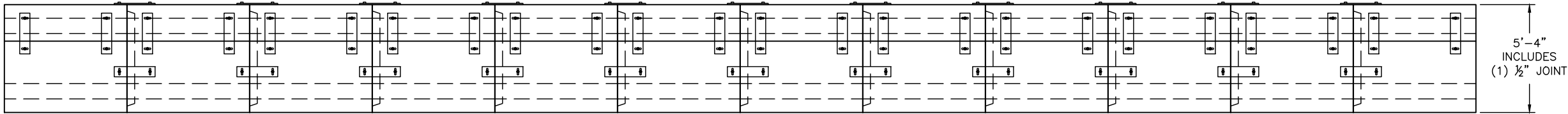


SEGMENT LAYOUT TYPICAL
TIE PLATES VARY PER SEGMENT.
SEE JOINT COMPONENT LAYOUT SHEET.

- NOTES:
- CULVERT HAS BEEN DESIGNED IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, 2020.
 - REINFORCEMENT AND JOINT COMPONENT DETAILS NOT SHOWN FOR CLARITY.
 - EACH SEGMENT (SXX) REPRESENTS ONE UPPER AND ONE LOWER UNIT.
 - ALL UNITS SHALL BE PRECAST REINFORCED TYPE A CONCRETE.



FRONT STREET – SEGMENT LAYOUT PLAN VIEW
BOX CULVERT, PRECAST REINFORCED CONCRETE, 6'-0" SPAN, 4'-0" RISE



FRONT STREET – SEGMENT LAYOUT ELEVATION VIEW

PLANS DEVELOPED BY:
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AND PUBLIC FACILITIES

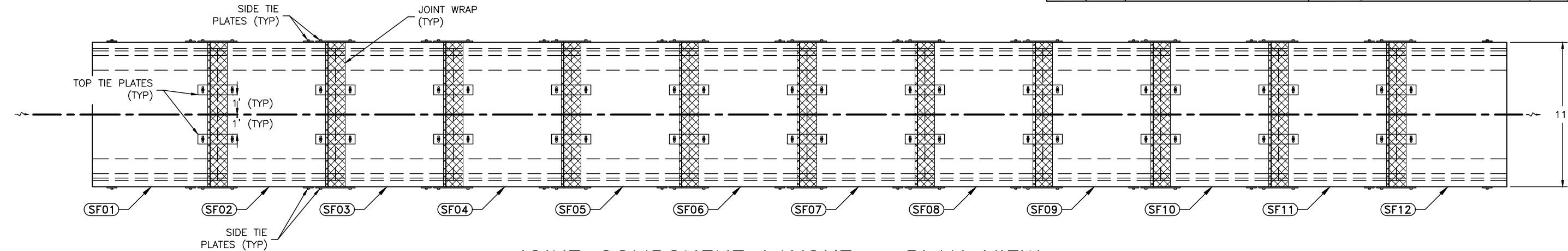
HNH PSG SGY ROADWAY AND CULVERTS
– DEC 20 SE PR

FRONT STREET BOX CULVERT
GENERAL SEGMENT LAYOUT

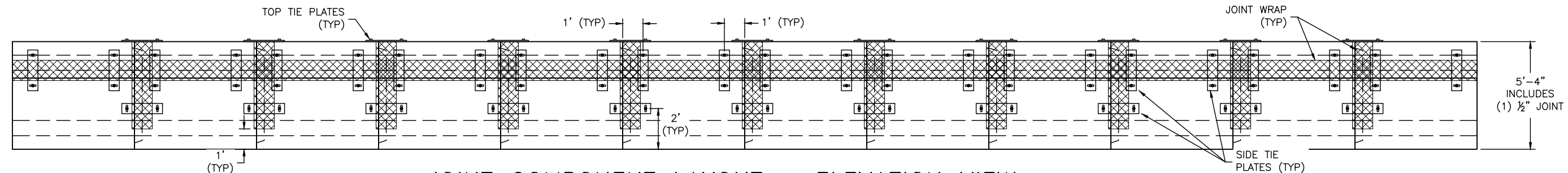
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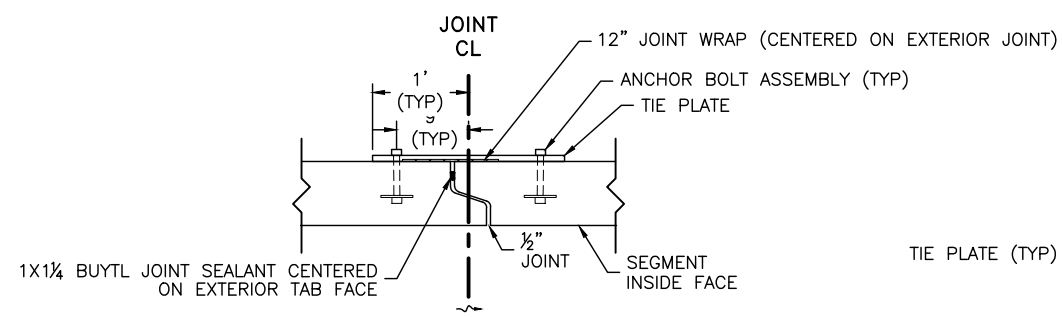
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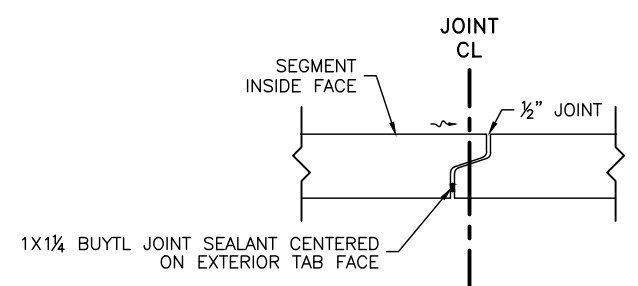
JOINT COMPONENT LAYOUT – PLAN VIEW
BOX CULVERT, PRECAST REINFORCED CONCRETE, 6'-0" SPAN, 4'-0" RISE



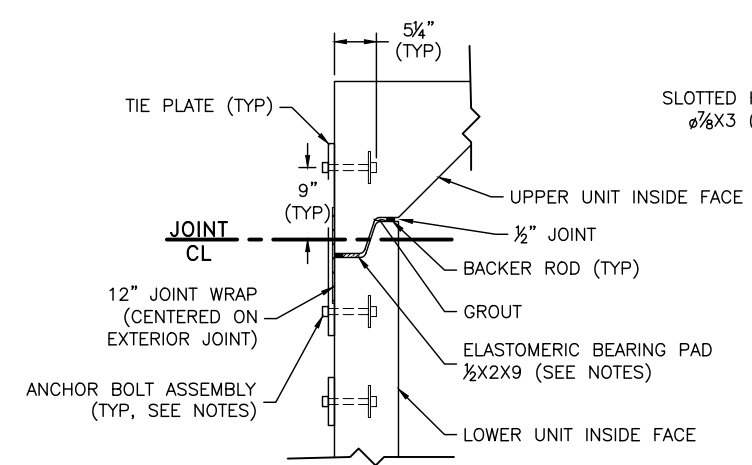
JOINT COMPONENT LAYOUT – ELEVATION VIEW



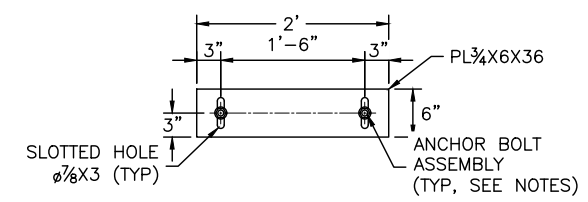
UPPER UNIT VERTICAL JOINT DETAIL
JOINT COMPONENT DETAILS FOR UPPER UNIT
VERTICAL JOINTS BETWEEN SEGMENTS (SEE NOTES)



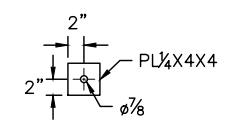
LOWER UNIT VERTICAL JOINT DETAIL
JOINT COMPONENT DETAILS FOR LOWER UNIT
VERTICAL JOINTS BETWEEN SEGMENTS (SEE NOTES)



HORIZONTAL JOINT TYPICAL
JOINT COMPONENT DETAILS FOR HORIZONTAL JOINTS
BETWEEN UPPER AND LOWER UNITS (SEE NOTES)



DETAIL 1
TIE PLATE



DETAIL 2
EMBED PLATE FOR
ANCHOR BOLT ASSEMBLY

- NOTES:
1. INSTALL 12" WIDE JOINT WRAP ON EXTERNAL FACE UNDER TIE PLATES. OVERLAP JOINT WRAP MIN. 12". DO NOT PLACE OVERLAP AREAS UNDER TIE PLATES.
 2. ALL STEEL PLATES SHALL BE ASTM A36, HOT-DIP GALVANIZED PER AASHTO M111. EMBED PLATE SHALL BE TACK WELDED TO ANCHOR BOLT.
 3. ALL ANCHOR BOLT ASSEMBLY COMPONENTS SHALL BE $\phi 3/4$ " AND MEET THE FOLLOWING:
 - HEADED BOLTS: ASTM F1554 GR 36A, HEX HEAD, GALV
 - NUT: ASTM A563 GR A, HEX, GALV.
 - WASHER: ASTM F436 TYPE 1, GALV.
 - HOT-DIP GALVANIZE PER AASHTO M111 OR AASHTO M232.
 4. ELASTOMERIC BEAR PAD SHALL CONFORM TO SSHC 720 WITH A SHEAR MODULUS OF 165 PSI. ADHERE TO UNIT TAB RECESS FACE USING EPOXY ADHESIVE CONFORMING TO SSCH 720-2.02 AND AASHTO M235, TYPE IV, GRADE 3.
 5. BACKER RODS SHALL CONFORM TO SHCC 405-2.03(2.B).
 6. BUTYL JOINT SEALANT SHALL BE INSTALLED ON ENTIRE PERIMETER OF VERTICAL JOINTS BETWEEN SEGMENTS AND CONFORM TO SHCC 705-2.05(1.A).
 7. INSTALL GROUT ON ALL HORIZONTAL JOINTS. PLACE GROUT PRIOR TO BACKFILLING TOP OF STRUCTURE. GROUT SHALL CONFORM TO SSHC 701-2.03 AND SHALL ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI PRIOR TO BACK FILLING ON TOP OF STRUCTURE.

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AND PUBLIC FACILITIES
HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR
FRONT STREET BOX CULVERT
JOINT COMPONENT DETAILS

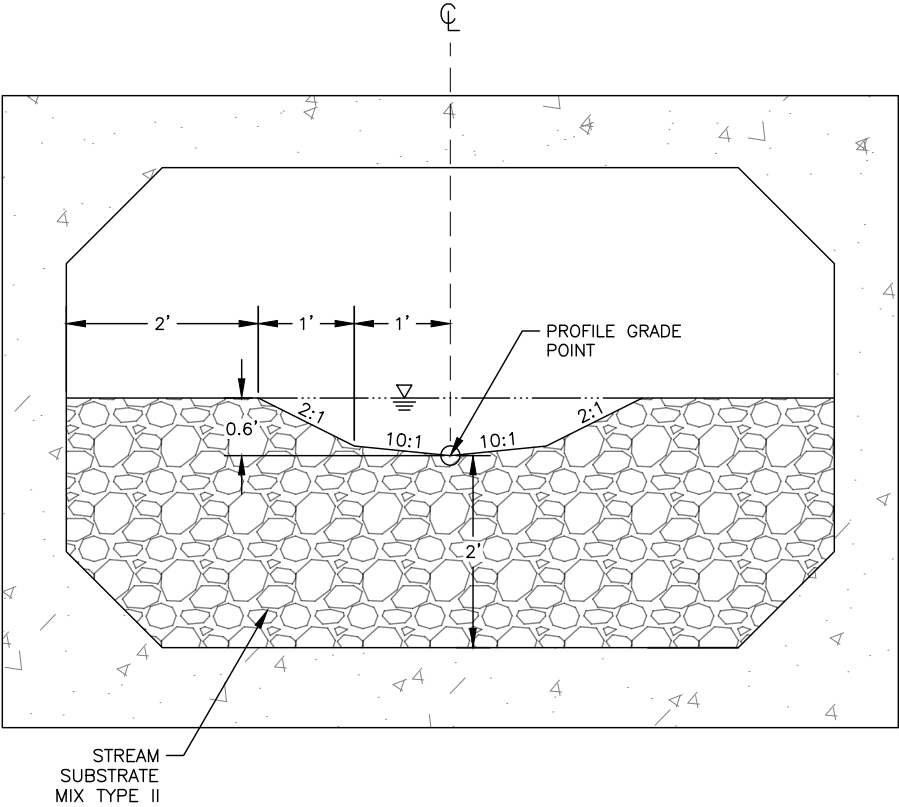
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1
P6
PSG002 CULVERT SECTION A-A
SCALE: 1:1

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HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

MITKOF HWY MP 15.46
CHANNEL SECTION

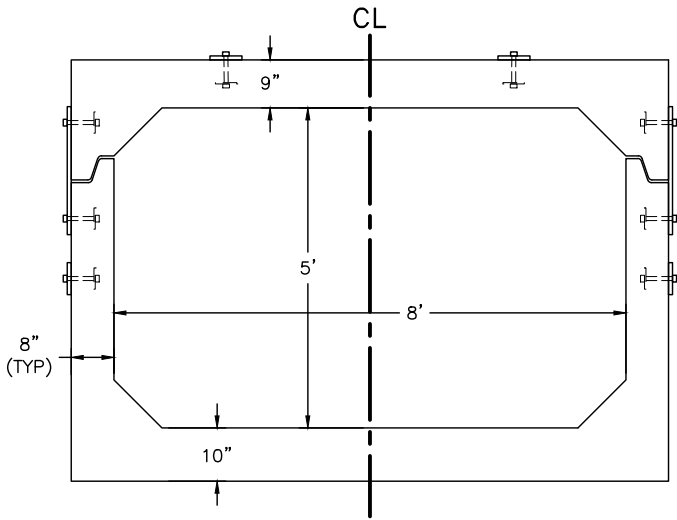
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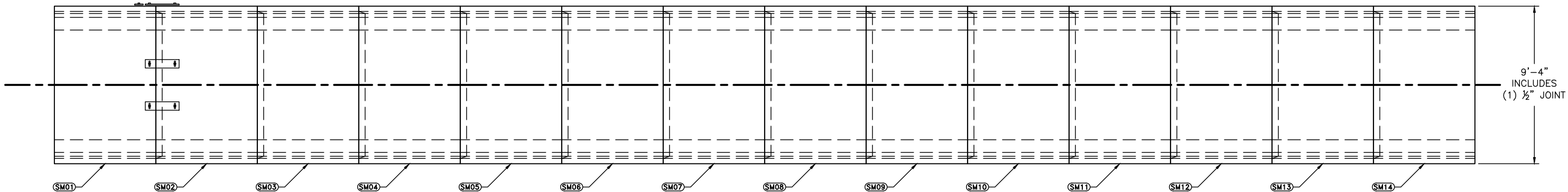
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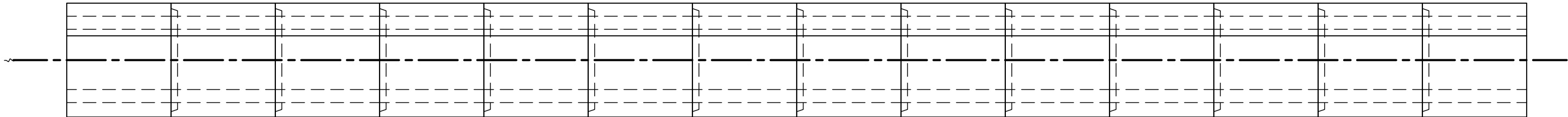


SEGMENT LAYOUT TYPICAL
TIE PLATES VARY PER SEGMENT.
SEE JOINT COMPONENT LAYOUT SHEET.

- NOTES:
1. CULVERT HAS BEEN DESIGNED IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, 2020.
 2. REINFORCEMENT AND JOINT COMPONENT DETAILS NOT SHOWN FOR CLARITY.
 3. EACH SEGMENT (SXX) REPRESENTS ONE UPPER AND ONE LOWER UNIT.
 4. ALL UNITS SHALL BE PRECAST REINFORCED TYPE A CONCRETE.



MITKOF HWY – SEGMENT LAYOUT PLAN VIEW
BOX CULVERT, PRECAST REINFORCED CONCRETE, 8’-0” SPAN, 5’-0” RISE



MITKOF HWY – SEGMENT LAYOUT ELEVATION VIEW

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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
HNH PSG SGY ROADWAY AND CULVERTS
– DEC 20 SE PR
MITKOF HWY BOX CULVERT
GENERAL SEGMENT LAYOUT

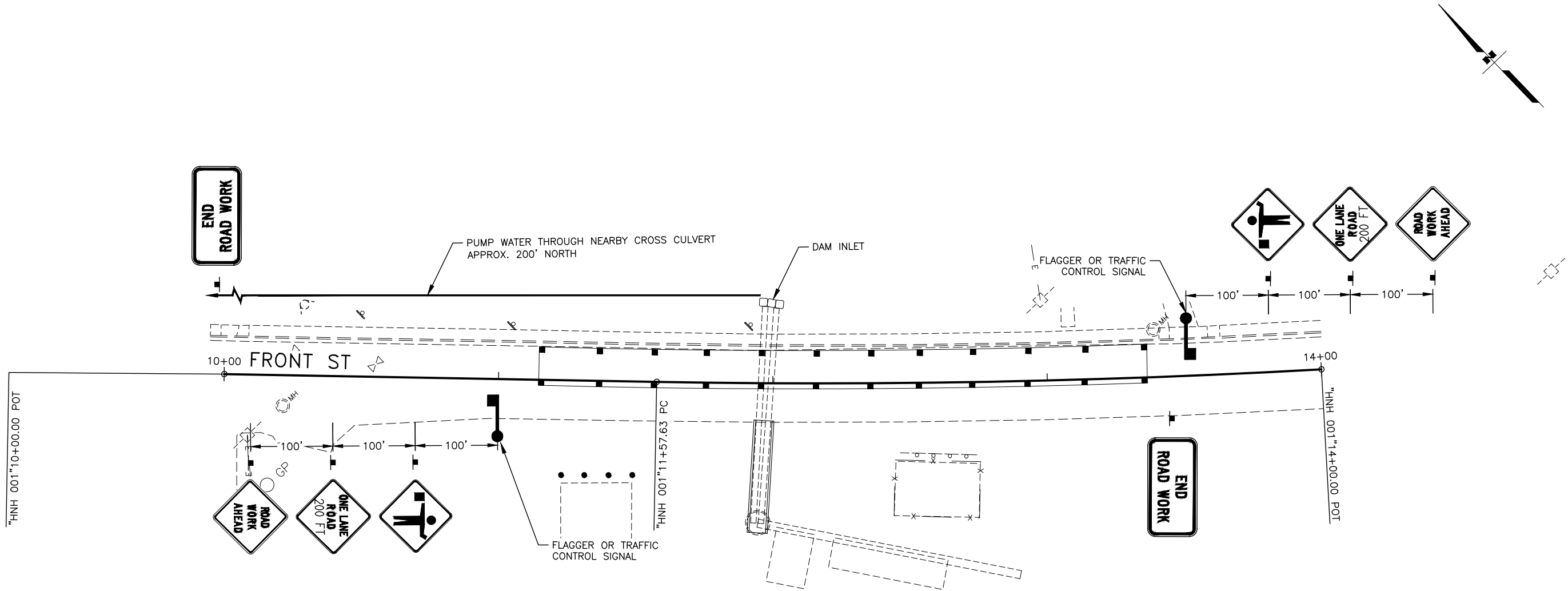
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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NOTES:

1. PROVIDE REASONABLE PUBLIC ACCESS TO FUELING STATIONS THROUGHOUT CONSTRUCTION. COORDINATE WITH FACILITY OWNER AS NEEDED FOR CONSTRUCTION PHASING AND TRAFFIC MAINTENANCE.

SUGGESTED PHASING:

1. PERFORM ROCK SLOPE EXCAVATION AND DOWEL INSTALLATION.
2. DAM EXISTING CULVERT INLET AND PUMP WATER TO THE NORTHWEST VIA HOSE AND THROUGH NEXT CROSS CULVERT.
3. CLOSE THE SOUTHBOUND LANE WITH A SINGLE LANE CLOSURE IN ACCORDANCE WITH THE MUTCD. MAINTAIN PEDESTRIAN ACCESS VIA EXISTING SIDEWALK.
4. REMOVE THE DOWNSTREAM PORTION OF THE EXISTING CULVERTS, REMOVE THE EXISTING MANHOLE, AND SALVAGE THE EXISTING OUTLET CULVERT. ESTABLISH GRADE AND PREPARE BEDDING FOR NEW WORK.
5. INSTALL THE DOWNSTREAM PORTION NEW BOX CULVERT AND REINSTALL THE SALVAGED OUTLET PIPE. BACKFILL AND PREPARE GRADE TO PLACE TRAFFIC ON NEW STRUCTURE.
6. SWAP LANE CLOSURE TO CLOSE THE NORTHBOUND LANE AND ESTABLISH A TEMPORARY PEDESTRIAN ROUTE AS SHOWN. REMOVE THE UPSTREAM PORTION OF EXISTING CULVERTS.
7. ESTABLISH GRADE AND BEDDING FOR UPSTREAM PORTION OF NEW CULVERT.
8. INSTALL THE UPSTREAM PORTION OF THE NEW BOX CULVERT. BACKFILL AND PREPARE GRADE TO PLACE TRAFFIC ON NEW STRUCTURE.
9. SWAP SINGLE LANE CLOSURE BACK AND FORTH AS NEEDED TO ESTABLISH FINAL GRADE, PAVE, AND APPLY PAVEMENT MARKINGS.

■ TRAFFIC CONTROL DEVICE

PLANS DEVELOPED BY:
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HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

FRONT STREET TRAFFIC
CONTROL PLAN PHASE I
DDIR HNH001

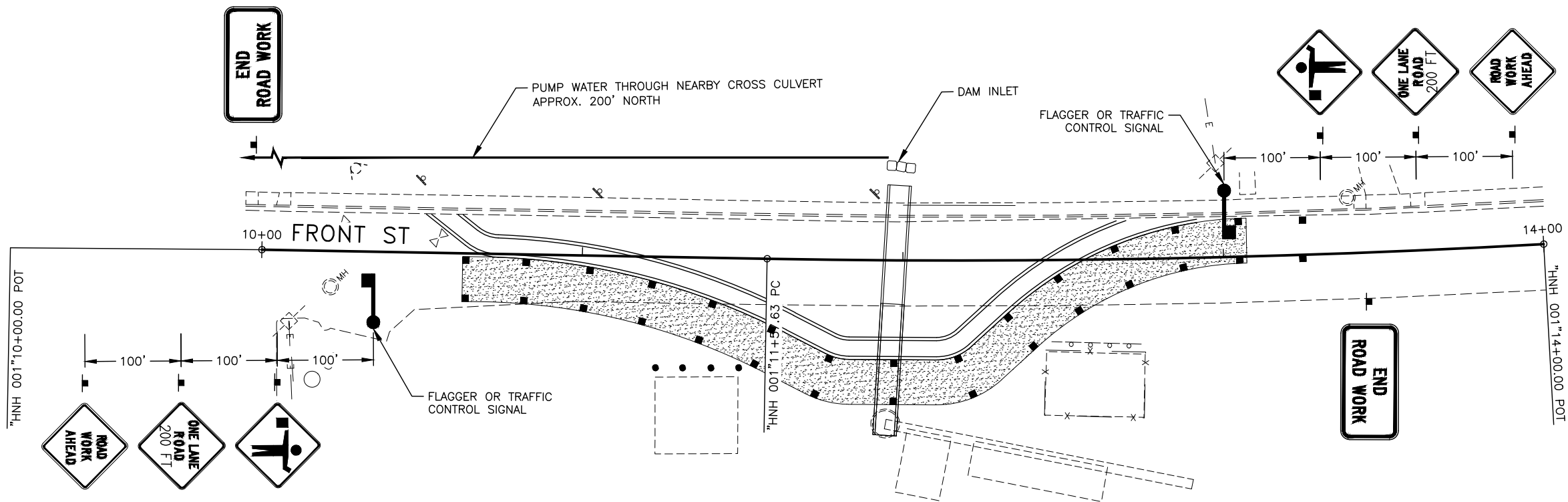
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- NOTES:
- SEE NOTES AND SUGGESTED PHASING ON PREVIOUS PAGE.

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HNNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

FRONT STREET TRAFFIC
CONTROL PLAN PHASE II
DDIR HNNH001

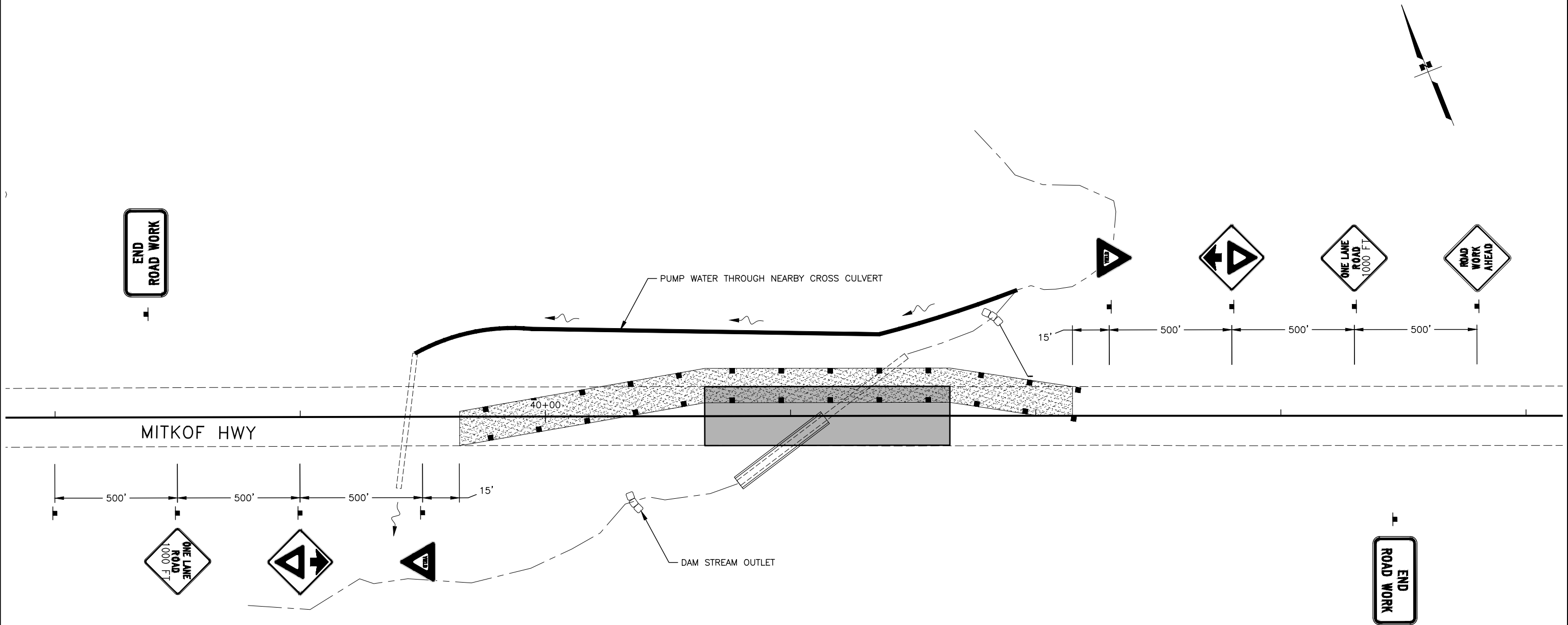
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			ALASKA	0093008/SFHWY00447	2025	T3	31



SUGGESTED PHASING:

1. DAM EXISTING CULVERT INLET AND OUTLET, DIVERT STREAM NORTHWEST IN EXISTING DITCHLINE AND THROUGH NEXT CROSS CULVERT.
2. CLOSE THE SOUTHBOUND LANE WITH A SINGLE LANE CLOSURE IN ACCORDANCE WITH THE MUTCD.
3. REMOVE THE DOWNSTREAM PORTION OF THE EXISTING CULVERT AND ESTABLISH GRADE AND BEDDING FOR NEW WORK.
4. INSTALL THE BOTTOM HALF OF THE DOWNSTREAM PORTION OF NEW BOX CULVERT, PLACE STREAMBED MATERIAL INSIDE OF STRUCTURE AND INSTALL STRUCTURE LID. BACKFILL AND PREPARE GRADE TO PLACE TRAFFIC ON NEW STRUCTURE.
5. SWAP LANE CLOSURE TO CLOSE THE NORTHBOUND LANE AND REMOVE THE REMAINING PORTION OF EXISTING CULVERT.
6. ESTABLISH GRADE AND BEDDING FOR THE REMAINDER OF THE NEW BOX CULVERT AND PREPARE CULVERT JOINT.
7. INSTALL THE BOTTOM HALF OF THE REMAINING PORTION OF BOX CULVERT, PLACE STREAMBED MATERIAL INSIDE OF THE STRUCTURE, INSTALL STRUCTURE LID, BACKFILL AND PREPARE GRADE TO PLACE TRAFFIC ON NEW STRUCTURE.
8. SWAP SINGLE LANE CLOSURE BACK AND FORTH AS NEEDED TO ESTABLISH FINAL GRADE, PAVE, AND APPLY PAVEMENT MARKINGS.

PLANS DEVELOPED BY:
HDR ENGINEERING, INC.
582 E 36TH AVE STE 500
ANCHORAGE, AK 99503-4169
(907) 644-2000
CERT. OF AUTH. AECC569

50%
APR. '25

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

MITKOF HWY TRAFFIC
CONTROL PLAN
DDIR PSG002

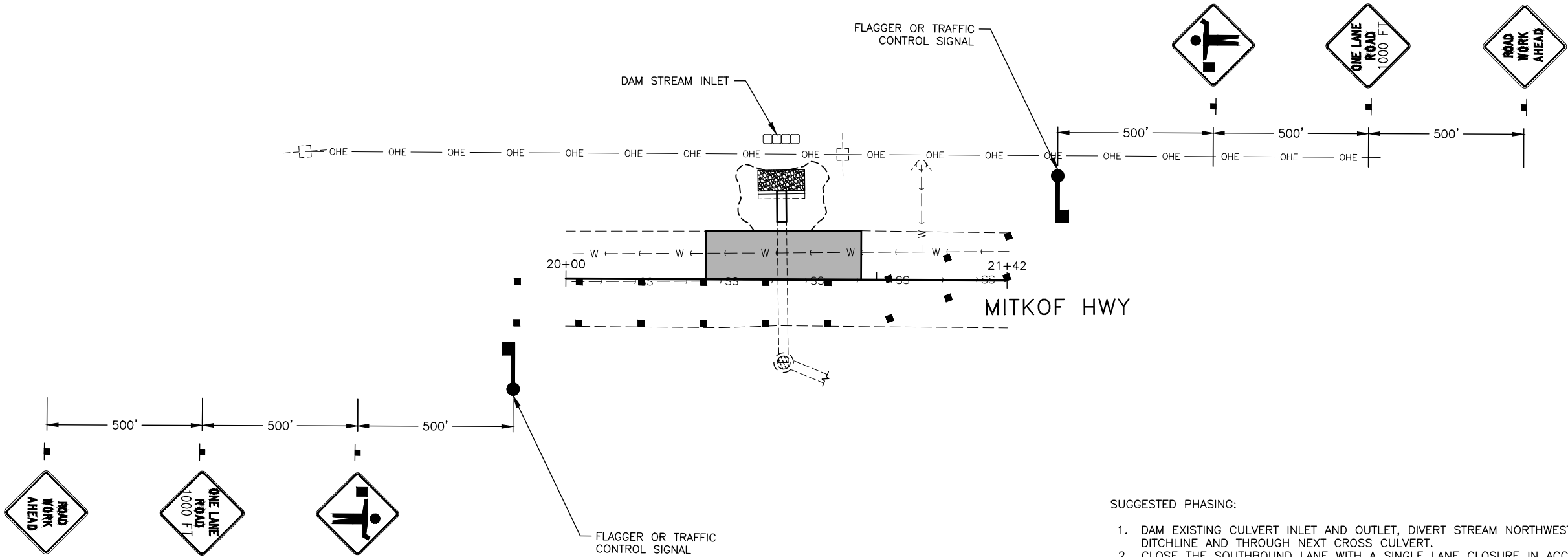
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DESIGNED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0093008/SFHWHY00447	2025	T5	31



SUGGESTED PHASING:

1. DAM EXISTING CULVERT INLET AND OUTLET, DIVERT STREAM NORTHWEST IN EXISTING DITCHLINE AND THROUGH NEXT CROSS CULVERT.
2. CLOSE THE SOUTHBOUND LANE WITH A SINGLE LANE CLOSURE IN ACCORDANCE WITH THE MUTCD.
3. REMOVE THE DOWNSTREAM PORTION OF THE EXISTING CULVERT AND ESTABLISH GRADE AND BEDDING FOR NEW WORK.
4. INSTALL THE BOTTOM HALF OF THE DOWNSTREAM PORTION OF NEW BOX CULVERT, PLACE STREAMBED MATERIAL INSIDE OF STRUCTURE AND INSTALL STRUCTURE LID. BACKFILL AND PREPARE GRADE TO PLACE TRAFFIC ON NEW STRUCTURE.
5. SWAP LANE CLOSURE TO CLOSE THE NORTHBOUND LANE AND REMOVE THE REMAINING PORTION OF EXISTING CULVERT.
6. ESTABLISH GRADE AND BEDDING FOR THE REMAINDER OF THE NEW BOX CULVERT AND PREPARE CULVERT JOINT.
7. INSTALL THE BOTTOM HALF OF THE REMAINING PORTION OF BOX CULVERT, PLACE STREAMBED MATERIAL INSIDE OF THE STRUCTURE, INSTALL STRUCTURE LID, BACKFILL AND PREPARE GRADE TO PLACE TRAFFIC ON NEW STRUCTURE.
8. SWAP SINGLE LANE CLOSURE BACK AND FORTH AS NEEDED TO ESTABLISH FINAL GRADE, PAVE, AND APPLY PAVEMENT MARKINGS.

PLANS DEVELOPED BY:
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APR. '25

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

MITKOF HWY TRAFFIC
CONTROL PLAN
DDIR PSG003

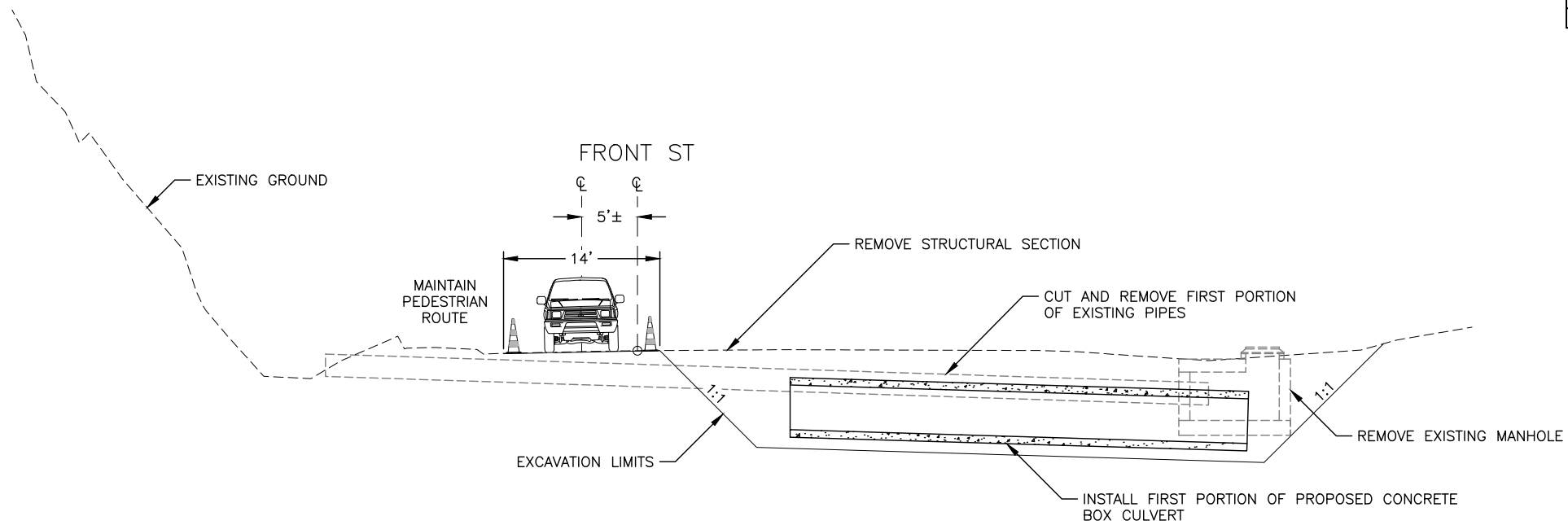
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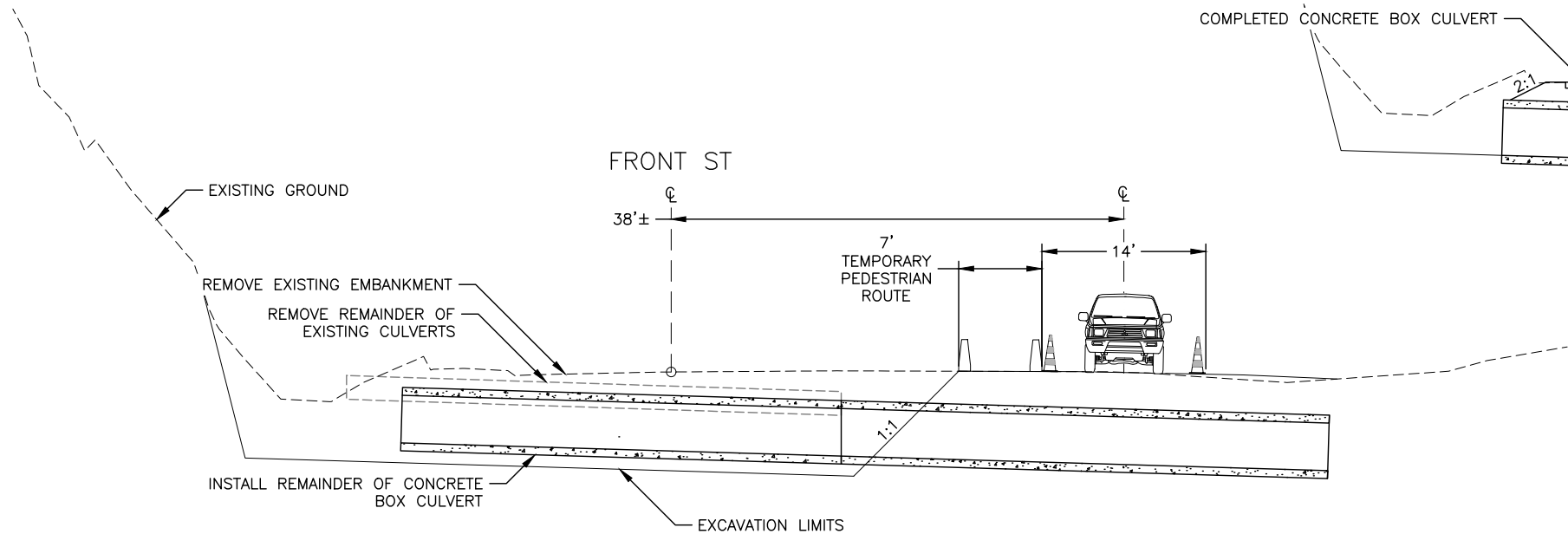
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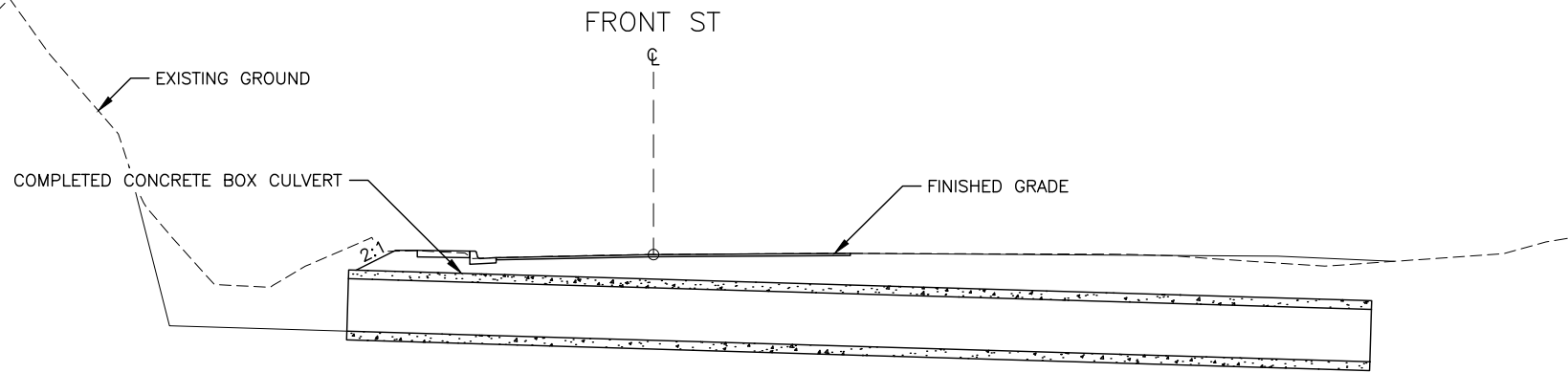
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0093008/SFHWY00447	2025	T6	31



FRONT STREET CULVERT XX PHASE I
MAINTAIN SINGLE LANE OF TRAFFIC



FRONT STREET CULVERT XX PHASE II
MAINTAIN SINGLE LANE OF TRAFFIC



FRONT STREET CULVERT XX FINAL
SEE TYPICAL SECTIONS IN PLANS

- NOTES:
- SEE NOTES AND SUGGESTED PHASING ON SHEET T1.

PLANS DEVELOPED BY:
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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HNH PSG SGY ROADWAY AND CULVERTS
- DEC 20 SE PR

FRONT ST PHASING
PLAN

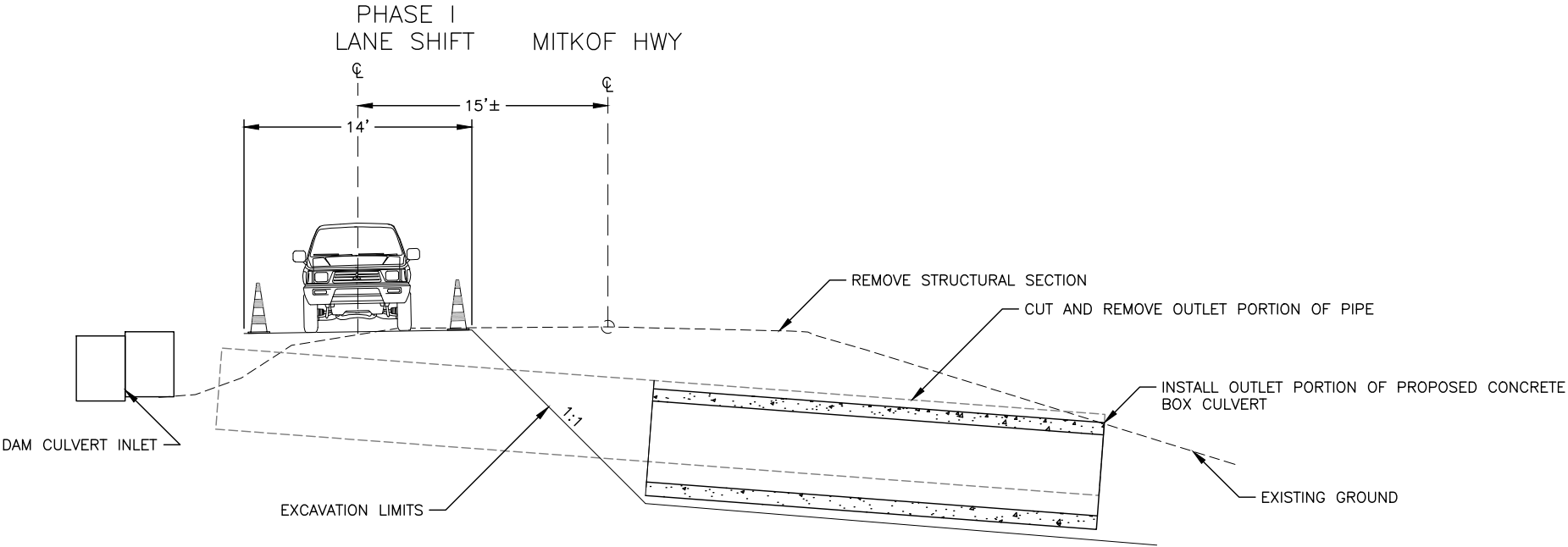
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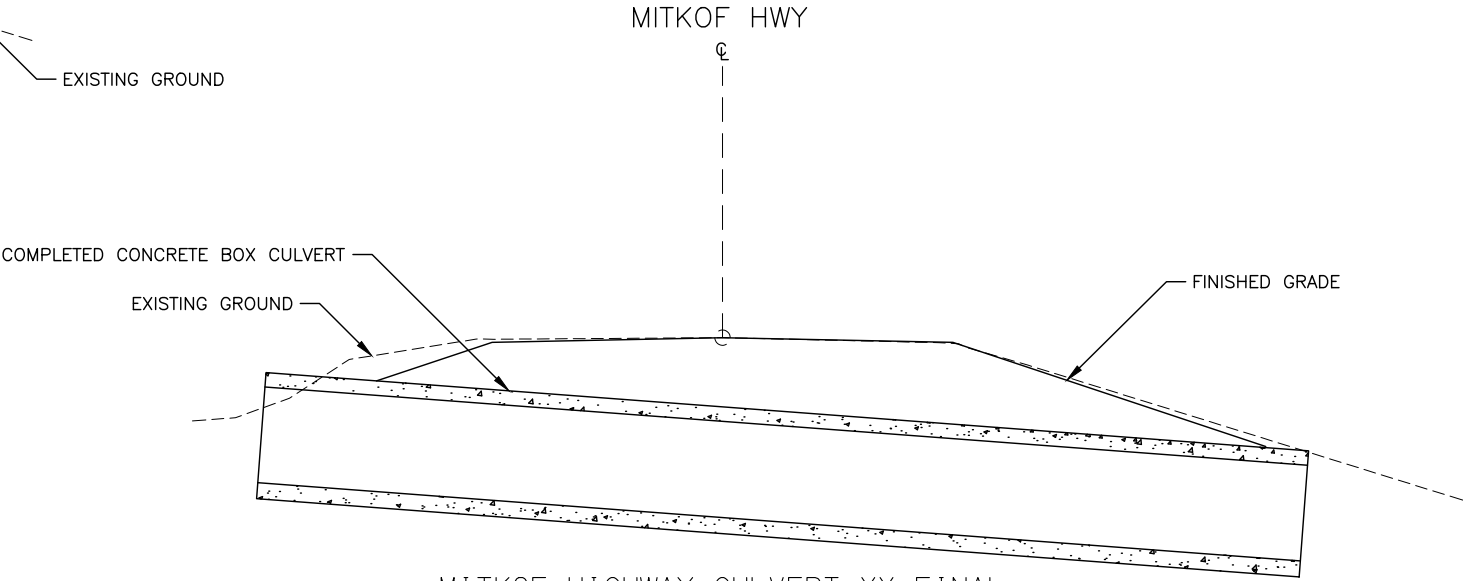
DESIGNED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0093008/SFHUY00447	2025	T7	31



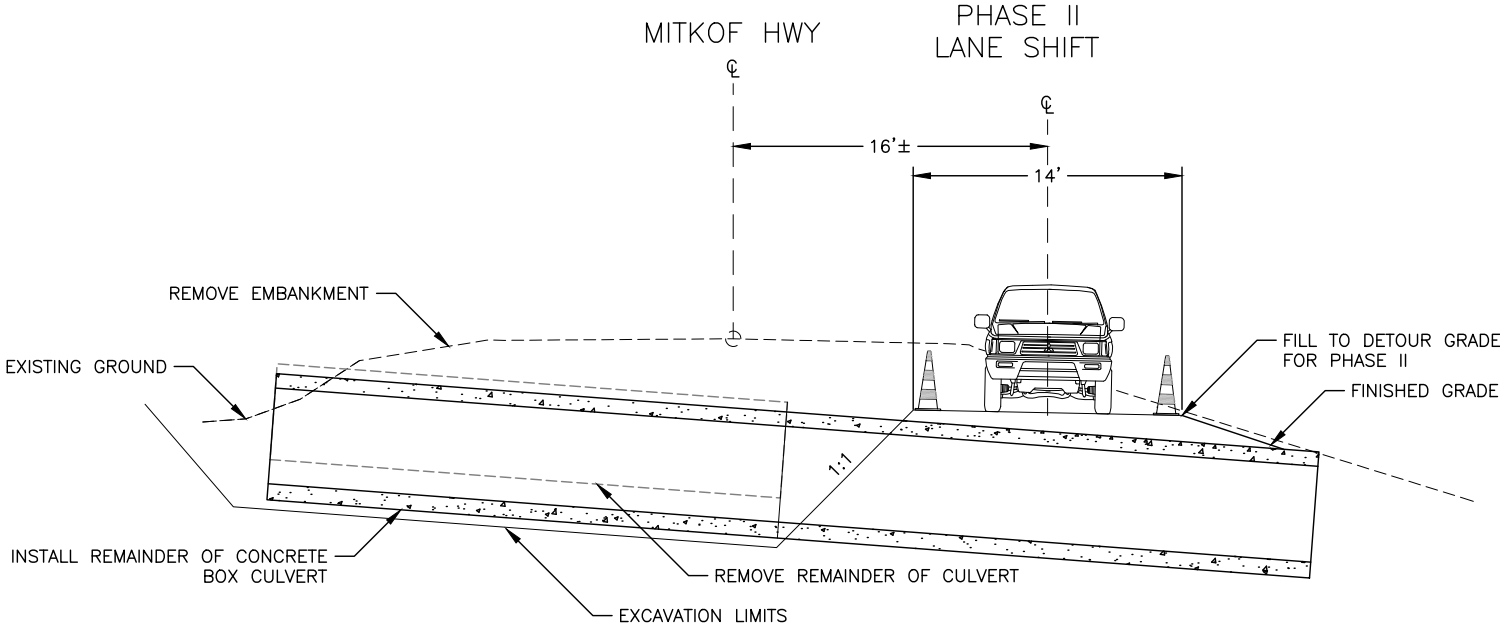
MITKOF HIGHWAY CULVERT XX PHASE I

MAINTAIN SINGLE LANE OF TRAFFIC
*CULVERT SLOPE IS EXAGGERATED DUE TO SKEW RELATIVE TO HIGHWAY CENTERLINE



MITKOF HIGHWAY CULVERT XX FINAL

SEE TYPICAL SECTIONS IN PLANS



MITKOF HIGHWAY CULVERT XX PHASE II

MAINTAIN SINGLE LANE OF TRAFFIC

- NOTES:
1. SEE NOTES AND SUGGESTED PHASING ON SHEET T3.

PLANS DEVELOPED BY: HDR ENGINEERING, INC. 582 E 36TH AVE STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569	50% APR. '25	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HNH PSG SGY ROADWAY AND CULVERTS - DEC 20 SE PR MITKOF HWY PHASING PLAN
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