

DRAWING LOCATION: T:\ARRC\196569 ARRRC WHITTIER SEWER PIPE\05 WORKING\CIVIL CAD\PRODUCTION\196569\_COVER.DWG  
 DATE: 4/6/2026 3:13 PM  
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 PUBLISHED CTB: ARRC\_CTB\_2021.CTB

# ALASKA RAILROAD CORPORATION

## ENGINEERING SERVICES

P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500

### WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1

### IFB PLAN SET

APRIL 2026

DESIGNED BY: REH  
 CHECKED BY: EKB  
 DRAFTED BY: MKM

IFB PLANS NOT FOR CONSTRUCTION

MICHAEL BAKER INTERNATIONAL  
 3900 C ST, SUITE 900  
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 LICENSE # AECC103



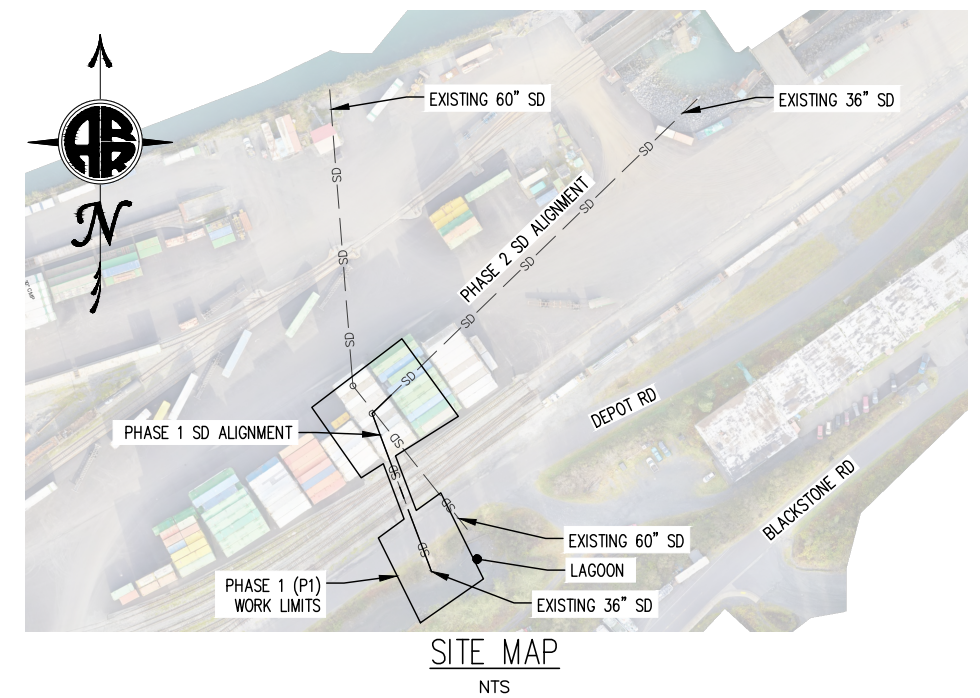
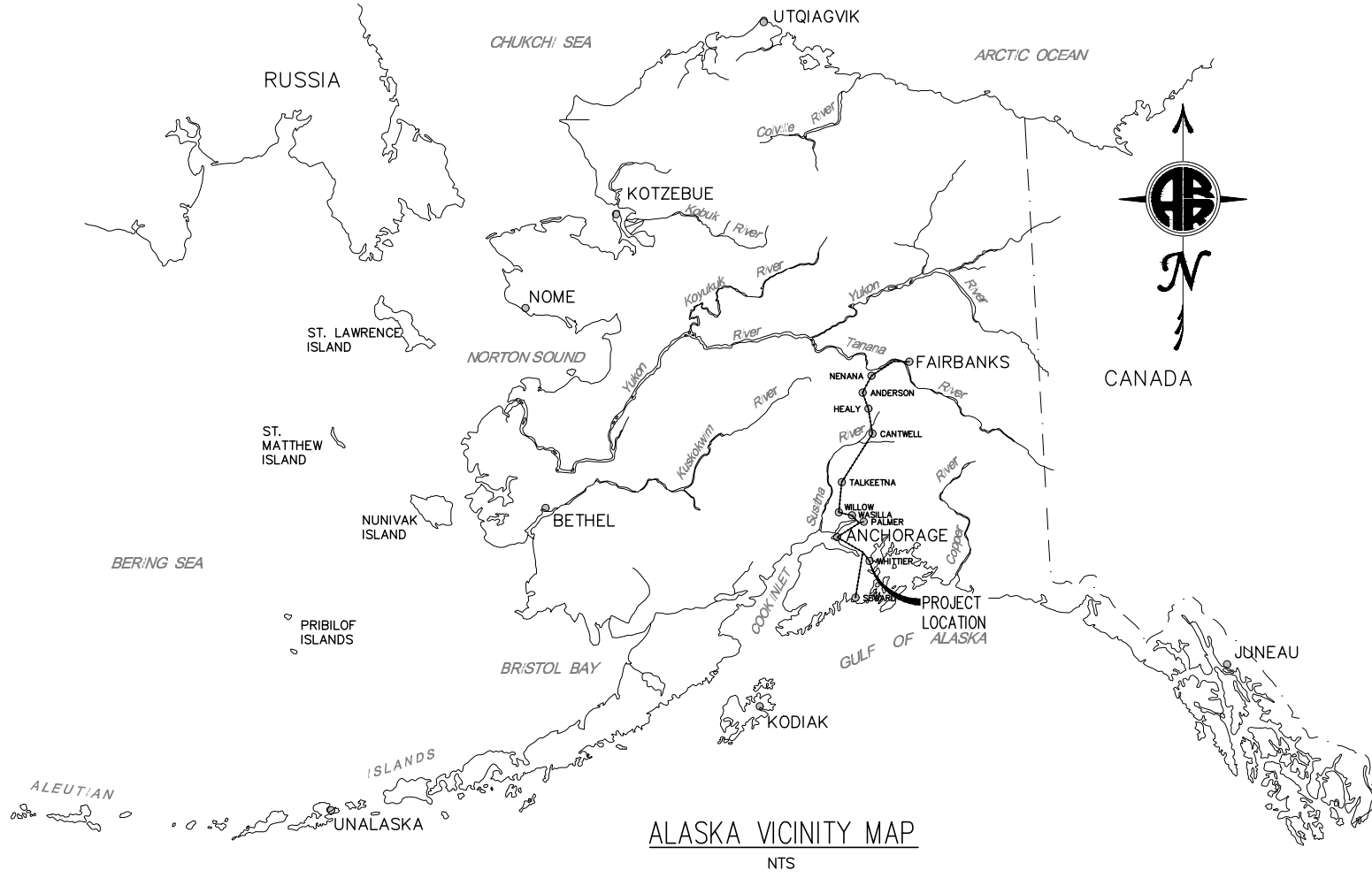
A/E FIRM

ENGINEERING DEPARTMENT  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500

PROJECT: WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1  
 SHEET TITLE: COVER SHEET



AFE NO. XXX  
 YEAR 2026  
 SHEET 1 OF 13



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DRAWING LOCATION: T:\ARRC\196569 ARRC WHITTIER SEWER PIPE\05 WORKING\CIVIL CAD\PRODUCTION\196569\_ESTIMATE.DWG  
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**GENERAL NOTES:**

1. CONTRACTOR SHALL COMPLY WITH ALL ARRC, LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS AND THE PROJECT SPECIFICATIONS FOR THIS CONTRACT.
2. ALL PROJECT EXCAVATION SHALL BE IN ACCORDANCE WITH SECTION 204.
3. PROJECT WORK WILL REQUIRE TRACK OUTAGE TO COMPLETE. COORDINATE WITH ARRC IN ACCORDANCE WITH SUBSECTION 107-1.08 AND MEET THE REQUIREMENTS OF SUBSECTION 107-1.15. SUBMIT A TRACK TRENCHING PLAN IN ACCORDANCE WITH SUBSECTION 204-3.01 ALONGSIDE OUTAGE REQUESTS TO BE CONSIDERED FOR APPROVAL. TO MINIMIZE DISRUPTION TO RAILYARD OPERATIONS, WORK MUST PROCEED NONSTOP DURING AN OUTAGE WITH AN EXPECTED OUTAGE WINDOW RANGE FROM FRIDAY 2200 - TUESDAY 2200.
4. BACKFILL MATERIAL MAY BE AVAILABLE AT ARRC MATERIAL SITE AT THE HEAD OF THE BAY, SEE SHEET 4. CONTRACTOR TO VERIFY MATERIAL STOCKPILE OWNER AND IF THE AVAILABLE MATERIAL QUANTITIES MEET THE SPECIFICATION FOR THE INTENDED APPLICATION.
5. EXCESS EXCAVATED SOIL FROM THE PROJECT LIMITS MAY BE RECLASSIFIED AND REUSED AS BACKFILL WHERE APPLICABLE OR BE DISPOSED OF AT ARRC MATERIAL SITE, SEE SHEET 4. CONTAMINATED SOILS, IF ENCOUNTERED, SHALL BE ADDRESSED IN ACCORDANCE WITH SUBSECTION 203-3.06.
6. CONTRACTOR SHALL NOT PLACE MATERIAL AND/OR EQUIPMENT OUTSIDE OF THE WORK ZONE NOR WITHIN 25 FEET OF AN ACTIVE TRACK AT ANY TIME WITHOUT PRIOR APPROVAL OF ARRC.
7. PROJECT WORK IS COVERED BY NATION WIDE PERMIT (NWP) 3 CFR 330.0 (a) MAINTENANCE.
8. MINIMIZE DISTURBANCE TO SURROUNDING VEGETATION.
9. CONTRACTOR SHALL MAINTAIN ONE (1) LANE OF TRAFFIC ON DEPOT ROAD AT ALL TIMES. BLACKSTONE ROAD IS FOR LIGHT DUTY TRAFFIC ONLY. HEAVY DUTY TRAFFIC MUST USE AN APPROVED BY-PASS.
10. UTILITY LOCATES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. AT A MINIMUM, UTILITY LOCATES INCLUDING FROM THE CITY OF WHITTIER MUST BE REQUESTED 10 DAYS PRIOR TO CONSTRUCTION ACTIVITIES, CITY OF WHITTIER WATER DEPARTMENT CAN BE REACHED AT (907) 240-2019.
11. IF NECESSARY, CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS INCLUDING A CITY OF WHITTIER TRAFFIC CONTROL PLAN PRIOR TO CONSTRUCTION ACTIVITIES.

**STANDARD SPECIFICATIONS:**

- ALASKA RAILROAD SPECIFICATIONS FOR CONSTRUCTION, 2025 EDITION AND SPECIAL PROVISION SPECIFICATIONS
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION (AASHTO).
- AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION (AREMA)
- NATIONAL PRECAST CONCRETE ASSOCIATION (NPCA)

**ABBREVIATIONS**

ADEC	ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION	N	NORTH, NORTHING
AIP	ABANDON IN PLACE	NE	NORTHEAST
AML	ALASKA MARINE LINES	NTS	NOT TO SCALE
APPROX, ~	APPROXIMATE	NW	NORTHWEST
ARRC	ALASKA RAILROAD CORPORATION	OC	ON CENTER
BH	BOREHOLE	OD	OUTSIDE DIAMETER
BMPS	BEST MANAGEMENT PRACTICES	PP	POLYPROPYLENE
CB	CATCH BASIN	P1	PHASE 1
CL	CENTER LINE	REQ'D	REQUIRED
CLSM	CONTROLLED LOW STRENGTH MATERIAL	SD	STORM DRAIN
CMP	CORRUGATED METAL PIPE	SE	SOUTHEAST
CONC	CONCRETE	SHT	SHEET
DET	DETAIL	SPEC	SPECIFICATION
DIA	DIAMETER	SS	SANITARY SEWER
E	EAST, EASTING	ST	STREET
FT	FEET	STA	STATION
H	HORIZONTAL	SW	SOUTHWEST
ID	INSIDE DIAMETER	TYP	TYPICAL
IN	INCH	WT	WALL THICKNESS
INV	INVERT	W/	WITH
MAX	MAXIMUM	V	VERTICAL
MH	MANHOLE		
MIN	MINIMUM		
MFR	MANUFACTURER		
MHHW	MEAN HIGHER-HIGH WATER		
MLLW	MEAN LOWER-LOW WATER		
MSPT	MODIFIED STANDARD PENETRATION TEST		
MSL	MEAN SEA LEVEL		

COMBINED CULVERT HYDRAULIC AND HYDROLOGIC STUDY - POST PHASE 2 INSTALLATION*	
DRAINAGE AREA = 0.2 SQUARE MILES	
ANNUAL EXCEEDANCE PROBABILITY	4% (DESIGN EVENT)
RETURN PERIOD	25 YEAR (Q <sub>25</sub> )
DESIGN DISCHARGE	90.1 CFS
LAGOON HEADWATER ELEVATION*	17.8 FEET
ANTICIPATED ADDITIONAL BACKWATER AT Q <sub>100</sub> = N/A, (NOT IN FLOODPLAIN)	
*LAGOON HEADWATER ELEVATION ASSUMES PHASE 2 CONTINUES THE 48" PP PIPE TO THE SEAWALL AND THE EXISTING 36" AND 60" STORM DRAIN CAPACITIES ARE ELIMINATED.	

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CHECKED BY:	EKB
DRAFTED BY:	MKM

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 P.O. BOX 107500  
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PROJECT: WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1

SHEET TITLE: GENERAL NOTES & ABBREVIATIONS

A/E NO.	XXX
YEAR	2026
SHEET	2 OF 13

# WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1

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PROJECT: WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1  
 SHEET TITLE: ESTIMATE OF QUANTITIES

AFE NO. XXX  
 YEAR 2026  
 SHEET 3 OF 13

DRAWING LOCATION T:\ARRC\196569 ARRC WHITTIER SEWER PIPE\05 WORKING\CIVIL CAD\PRODUCTION\196569\_ESTIMATE.DWG  
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TABLE OF PAY ITEMS			
PAY ITEM	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
202.0006.0000	REMOVAL OF MANHOLE	EACH	2
202.0014.0000	REMOVAL OF PAVEMENT	LUMP SUM	ALL REQUIRED
202.0018.0000	REMOVAL OF CULVERT PIPE	LUMP SUM	ALL REQUIRED
203.0005.000A	BORROW, SELECTED MATERIAL, TYPE A	CUBIC YARD	430
203.0005.000C	BORROW, SELECTED MATERIAL, TYPE C	CUBIC YARD	1,400
204.0001.0000	STRUCTURE EXCAVATION	CUBIC YARD	2,200
205.0004.000B	POROUS BACKFILL MATERIAL, GRADATION B	CUBIC YARD	260
207.0002.0003	RAILROAD BALLAST, TYPE 3	CUBIC YARD	60
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	200
301.0006.00C1	RAILROAD SUB-BALLAST, GRADING C-1 (BASE COURSE)	CUBIC YARD	50
401.0001.002A	HMA, TYPE II; CLASS A	TON	100
401.0013.0000	JOB MIX DESIGN	EACH	1
603.0023.0048	POLYPROPYLENE PIPE, 48 INCH	LINEAR FOOT	189
603.0025.0060	STEEL PIPE CASING, 0.875 x 60 INCH	LINEAR FOOT	73
603.0026.0060	INLET STRUCTURE, 60 INCH BOLT ON REMOVABLE GRATE	EACH	1
604.0001.0096	STORM SEWER MANHOLE, 96 INCH	EACH	2
611.0001.0002	RIPRAP, CLASS II	CUBIC YARD	80
618.0004.0000	SEEDING	SQUARE YARD	120
626.0003.0018	HDPE SANITARY SEWER SLEEVE, 18 INCH	LINEAR FOOT	15
630.0001.0003	GEOTEXTILE, SEPARATION, CLASS 3	SQUARE YARD	330
631.0002.0001	GEOTEXTILE, EROSION CONTROL - CLASS 1	SQUARE YARD	110
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641.0003.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643.0025.0000	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
643.0032.0000	FLAGGING	CONTINGENT SUM	ALL REQUIRED
646.0001.0000	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
682.2006.0000	POTHOLE UTILITIES	EACH	5
802.0003.0000	TRACK WORK, 115# RE RAIL	LUMP SUM	ALL REQUIRED
802.0005.0000	TRACK TAMPING, SURFACING, AND FINAL DRESSING	TRACK FOOT	720
803.0002.0000	TRACK REMOVAL	LUMP SUM	ALL REQUIRED

**TABLE OF PAY ITEMS NOTES:**

- PAY ITEM QUANTITIES ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN QUANTITY TAKE-OFFS USING THE INFORMATION WITHIN THE CONTRACT DOCUMENTS TO VERIFY THE QUANTITIES LISTED HEREON.
- APPROXIMATE QUANTITIES BASED ON EXCAVATION LIMITS SHOWN ON THE PLANS. THE CONTRACTOR MAY ELECT TO SUBMIT A VALUE ENGINEERING CHANGE PROPOSAL (VECP) IN ACCORDANCE WITH SUBSECTION 104-1.06. SHOULD THEIR MEANS AND METHODS RESULT IN A REDUCTION IN THE EXCAVATION LIMITS, THAT SHALL REDUCE PAY ITEM QUANTITIES.

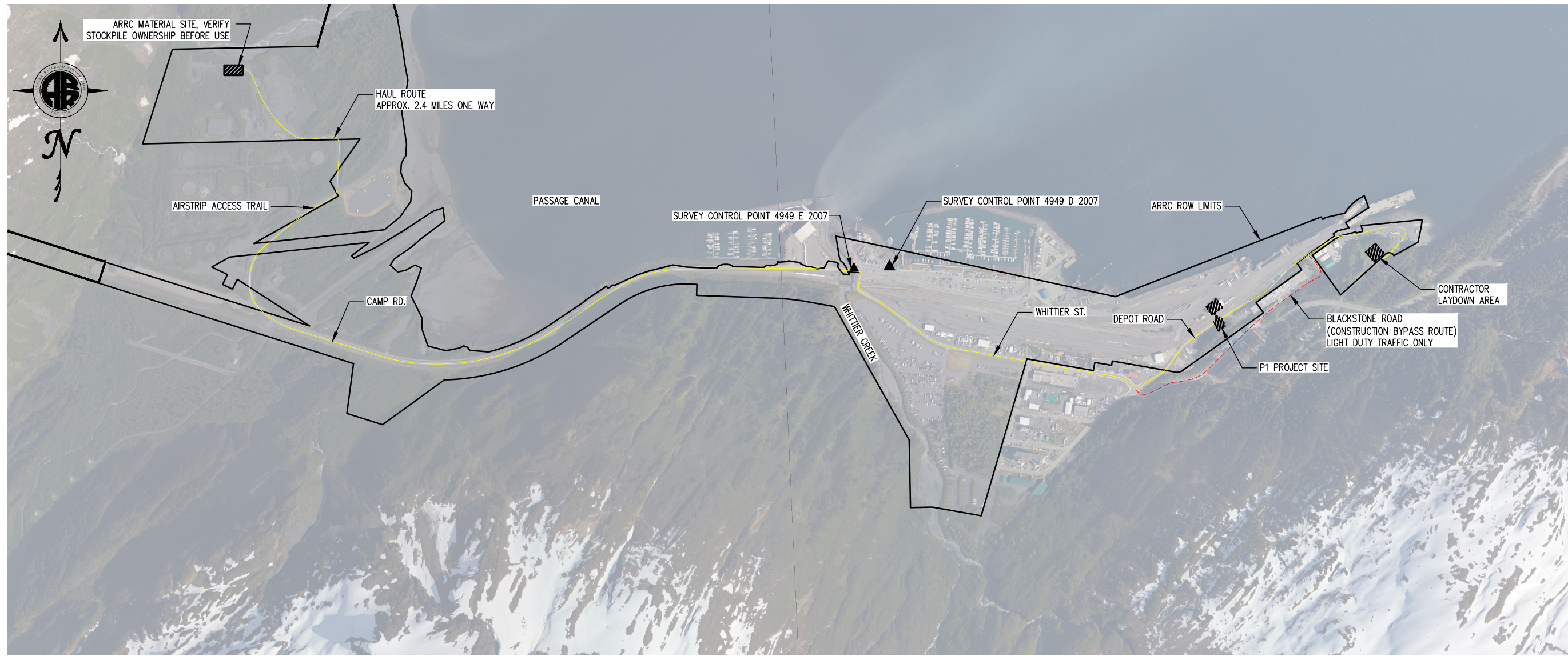
TABLE OF ESTIMATING FACTORS		
ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR
301.0001	AGGREGATE BASE COURSE, GRADING D-1	144 LB/FT <sup>3</sup>
401.0001	HMA, TYPE II; CLASS A	148 LB/FT <sup>3</sup>

SUMMARY OF ESTIMATED QUANTITIES PROVIDED BY ARRC			
DESCRIPTION	UNIT	QUANTITY	
TIMBER TRACK TIES 7"x9"x10'	EACH	30	

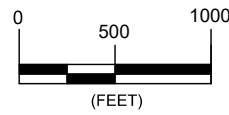
- ITEMS AND WORK QUANTITIES PROVIDED BY ARRC MAY BE CONTRACTOR PROVIDED, SEE CONTRACT DOCUMENTS.

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SURVEY CONTROL AND AREA SITE MAP



**NOTES:**

1. BASIS OF SURVEY CONTROL COORDINATES IS ALASKA STATE PLANE ZONE 4, NAD83, US FOOT, BASED ON THE SHARED SOLUTION FOR POINT 4949 E 2007, A PUBLISHED NOAA BENCHMARK. FINAL COORDINATES WERE RECEIVED FROM R&M SURVEY FROM JANUARY 2021. MONUMENT IS A BRASS CAP IN THE NORTH BRIDGE ABUTMENT CROSSING WHITTIER CREEK.
2. BASIS OF ELEVATION IS MEAN LOWER LOW WATER (MLLW) BASED ON TIDE STATION 9454949 WHITTIER, ALASKA, PUBLISHED IN SEPTEMBER 2008, HOLDING "4949 E 2007" AT 22.772 FEET ABOUT MLLW.
3. BASIS OF BEARING IS GRID BEARING BASED ON GPS OBSERVATIONS.
4. 2016 IMAGERY IS SHOWN FOR REFERENCE, REVIEW AREA FOR RECENT DEVELOPMENTS.

CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
4949 E 2007	2478201.534	1873727.935	22.772	2.5" BRASS CAP, NOS BM
4949 D 2007	2478227.060	1874051.279	23.300	2.5" BRASS CAP, NOS BM

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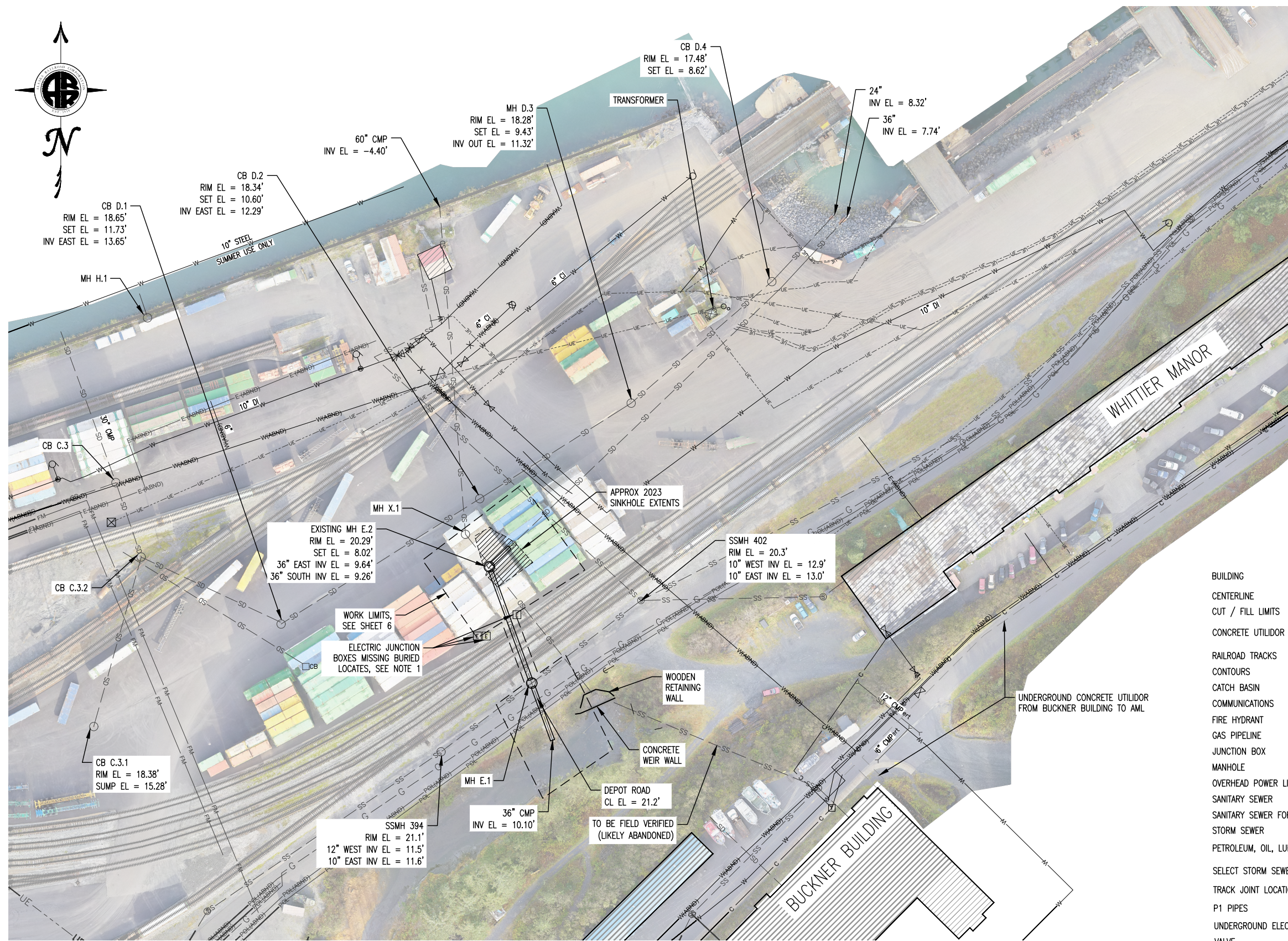
**ALASKA RAILROAD**

PROJECT: WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1

SHEET TITLE: SURVEY CONTROL AND AREA SITE MAP

AFE NO. XXX  
 YEAR 2026  
 SHEET 4 OF 13

DRAWING LOCATION: T:\ARRC\196589 ARRC WHITTIER SEWER PIPE\05 WORKING\CIVIL\PRODUCTION\EXHIBIT FILES\EXISTING UTILITIES PLAN - PRESENTATION.DWG  
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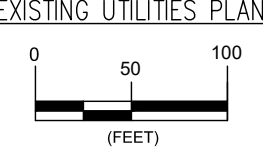


### LEGEND

EXISTING	PROPOSED
BUILDING	[Hatched Box]
CENTERLINE	[Dashed Line]
CUT / FILL LIMITS	[Line with Tick Marks]
CONCRETE UTILIDOR	[Dashed Line]
RAILROAD TRACKS	[Parallel Lines]
CONTOURS	[Curved Line]
CATCH BASIN	[Square]
COMMUNICATIONS	[Line with 'C']
FIRE HYDRANT	[Star]
GAS PIPELINE	[Line with 'G']
JUNCTION BOX	[Square with 'E']
MANHOLE	[Circle]
OVERHEAD POWER LINE	[Line with 'OHE']
SANITARY SEWER	[Line with 'SS']
SANITARY SEWER FORCE MAIN	[Line with 'FM']
STORM SEWER	[Line with 'SD']
PETROLEUM, OIL, LUBRICANTS	[Line with 'POL']
SELECT STORM SEWER PIPES	[Line with 'C']
TRACK JOINT LOCATIONS	[Line with 'X']
P1 PIPES	[Line with 'P1']
UNDERGROUND ELECTRIC	[Line with 'UE']
VALVE	[Line with 'V']
WATER LINE	[Line with 'W']
WORK LIMITS	[Dashed Line]

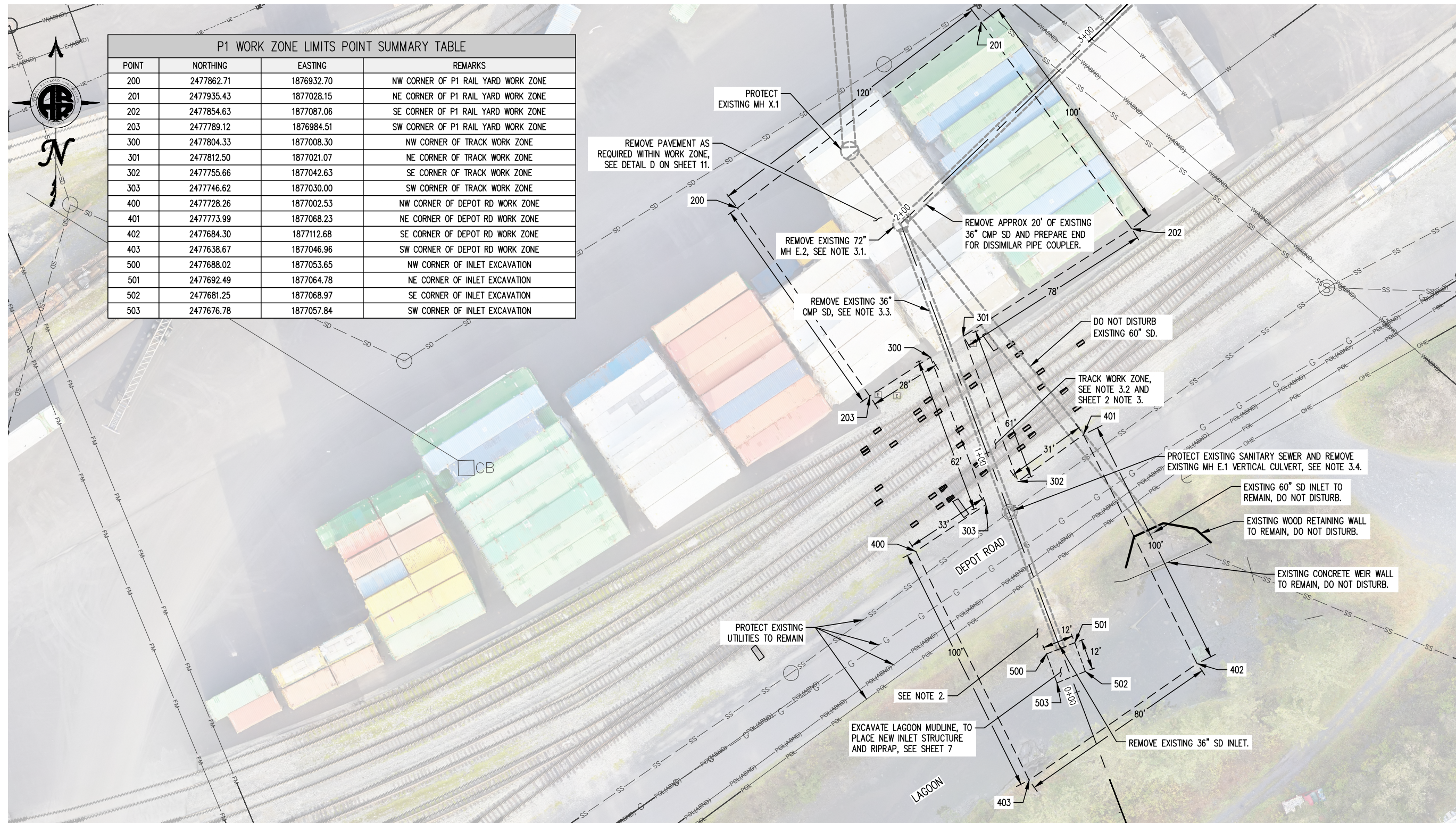
**BURIED UTILITIES:**  
 VERIFY ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.  
 LOCATE CALL CENTER OF ALASKA (811):  
 - ANCHORAGE .....1.907.278.3121  
 - STATEWIDE .....1.800.478.3121  
 CALL CENTER WILL NOTIFY SUBSCRIBED UTILITIES ONLY, OTHER UTILITIES NEED TO BE CONTACTED INDIVIDUALLY.  
 CONTRACTOR MUST CALL WHITTIER WATER DEPARTMENT FOR LOCATE (907.240.2019).  
 CALL A MINIMUM OF 10 DAYS IN ADVANCE OF DIGGING.

- UTILITY NOTES:**
- UTILITY AND STRUCTURE LOCATIONS SHOWN ARE APPROXIMATE AND INCOMPLETE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS WITHIN WORK ZONE LIMITS.
  - EXISTING UTILITY PLAN WAS CREATED USING HISTORIC DATA PROVIDED BY ARRC, FIELD SURVEY PERFORMED BY R&M BETWEEN DECEMBER 2020 AND JANUARY 2021, FIELD SURVEY PERFORMED BY AML, APRIL 2024 FIELD SURVEY PERFORMED BY MICHAEL BAKER INTERNATIONAL, JULY 2025 FIELD SURVEY PERFORMED BY ARI, AND AS BUILT SURVEY OF TRICAST PANELS.
  - AERIAL IMAGERY WAS OBTAINED BY R&M ON OCTOBER 10, 2020 USING DJI M600 DRONE.



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CHECKED BY:	EKB
DRAFTED BY:	MKM
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MICHAEL BAKER INTERNATIONAL 3900 C ST, SUITE 900 ANCHORAGE, AK 99503 (907) 273-1600 LICENSE # AECC103	
A/E FIRM	
ENGINEERING DEPARTMENT	ALASKA RAILROAD
P.O. BOX 107500 ANCHORAGE, ALASKA 99510-7500	
PROJECT:	WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1
SHEET TITLE:	EXISTING UTILITIES PLAN AND LEGEND
A/E NO.	XXX
YEAR	2026
SHEET	5 OF 13

DRAWING LOCATION: T:\ARRC\196569 ARRCC WHITTIER SEWER PIPE\05 WORKING\CIVIL CAD\PRODUCTION\196569\_DEMO.DWG  
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P1 WORK ZONE LIMITS POINT SUMMARY TABLE			
POINT	NORTHING	EASTING	REMARKS
200	2477862.71	1876932.70	NW CORNER OF P1 RAIL YARD WORK ZONE
201	2477935.43	1877028.15	NE CORNER OF P1 RAIL YARD WORK ZONE
202	2477854.63	1877087.06	SE CORNER OF P1 RAIL YARD WORK ZONE
203	2477789.12	1876984.51	SW CORNER OF P1 RAIL YARD WORK ZONE
300	2477804.33	1877008.30	NW CORNER OF TRACK WORK ZONE
301	2477812.50	1877021.07	NE CORNER OF TRACK WORK ZONE
302	2477755.66	1877042.63	SE CORNER OF TRACK WORK ZONE
303	2477746.62	1877030.00	SW CORNER OF TRACK WORK ZONE
400	2477728.26	1877002.53	NW CORNER OF DEPOT RD WORK ZONE
401	2477773.99	1877068.23	NE CORNER OF DEPOT RD WORK ZONE
402	2477684.30	1877112.68	SE CORNER OF DEPOT RD WORK ZONE
403	2477638.67	1877046.96	SW CORNER OF DEPOT RD WORK ZONE
500	2477688.02	1877053.65	NW CORNER OF INLET EXCAVATION
501	2477692.49	1877064.78	NE CORNER OF INLET EXCAVATION
502	2477681.25	1877068.97	SE CORNER OF INLET EXCAVATION
503	2477676.78	1877057.84	SW CORNER OF INLET EXCAVATION

PHASE 1 WORK ZONE LIMITS AND DEMOLITION PLAN

**NOTES:**

1. EXISTING UTILITIES ARE SHOWN FOR REFERENCE. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITY LOCATIONS.
2. REMOVE AND STOCKPILE EXISTING LAGOON RIPRAP WITHIN EXCAVATION LIMITS FOR REUSE.
3. THE FOLLOWING ACTIVITIES MUST BE DETAILED IN THE CRITICAL PATH METHOD SCHEDULE TAKING PLACE AS THE 48" PP PIPE FROM THE LAGOON TO MANHOLE E.2 (SEE SHEET 7) IS INSTALLED AND APPROVED. SEE SUBSECTION 204-3.01 FOR ADDITIONAL CONSTRUCTION REQUIREMENTS AND SUBMITTALS.
  - 3.1. REMOVE EXISTING 72" MH E.2 BARREL, REDUCING SLAB, RISER, CONE AND BASE. SALVAGE EXISTING MH E.2 LID SECTION, TO BE REUSED FOR NEW MH E.2 WITH PRECAST ENGINEER VERIFICATION AND APPROVAL, 202.0006.0000.
  - 3.2. WORK LIMITS APPLY TO GROUND DISTURBING EXCAVATION AND EQUIPMENT STAGING, TRACK WORK MAY TAKE PLACE OUTSIDE OF SHOWN LIMITS WHERE APPROVED BY THE CONTRACT MANAGER. A TOTAL OF 120' OF TRACK REMOVAL TO ALLOW REDUCED WIDTH TRENCHING WITH A TRENCH BOX OR SHORING SYSTEM IS ANTICIPATED, 803.0002.0000.
  - 3.3. REMOVE EXISTING 36" CMP BETWEEN THE LAGOON INLET AND DISSIMILAR PIPE COUPLER, 202.0004.0000.
  - 3.4. REMOVE MH E.1 VERTICAL CULVERT AND PREPARE SANITARY SEWER LINE FOR INSTALLATION THROUGH NEW MH E.1. APPROX 12" DIA SANITARY SEWER LINE PENETRATES THE EXISTING 36" DIA CMP STORM DRAIN. PROTECT SANITARY SEWER LINE DURING CONSTRUCTION AND HAVE A LINE BREACH CONTINGENCY, 202.0006.0000.
4. DIVERT ALL SURFACE WATER INTO NEW 48" LAGOON INLET ONCE THE DISSIMILAR PIPE COUPLER HAS BEEN INSTALLED AND APPROVED.

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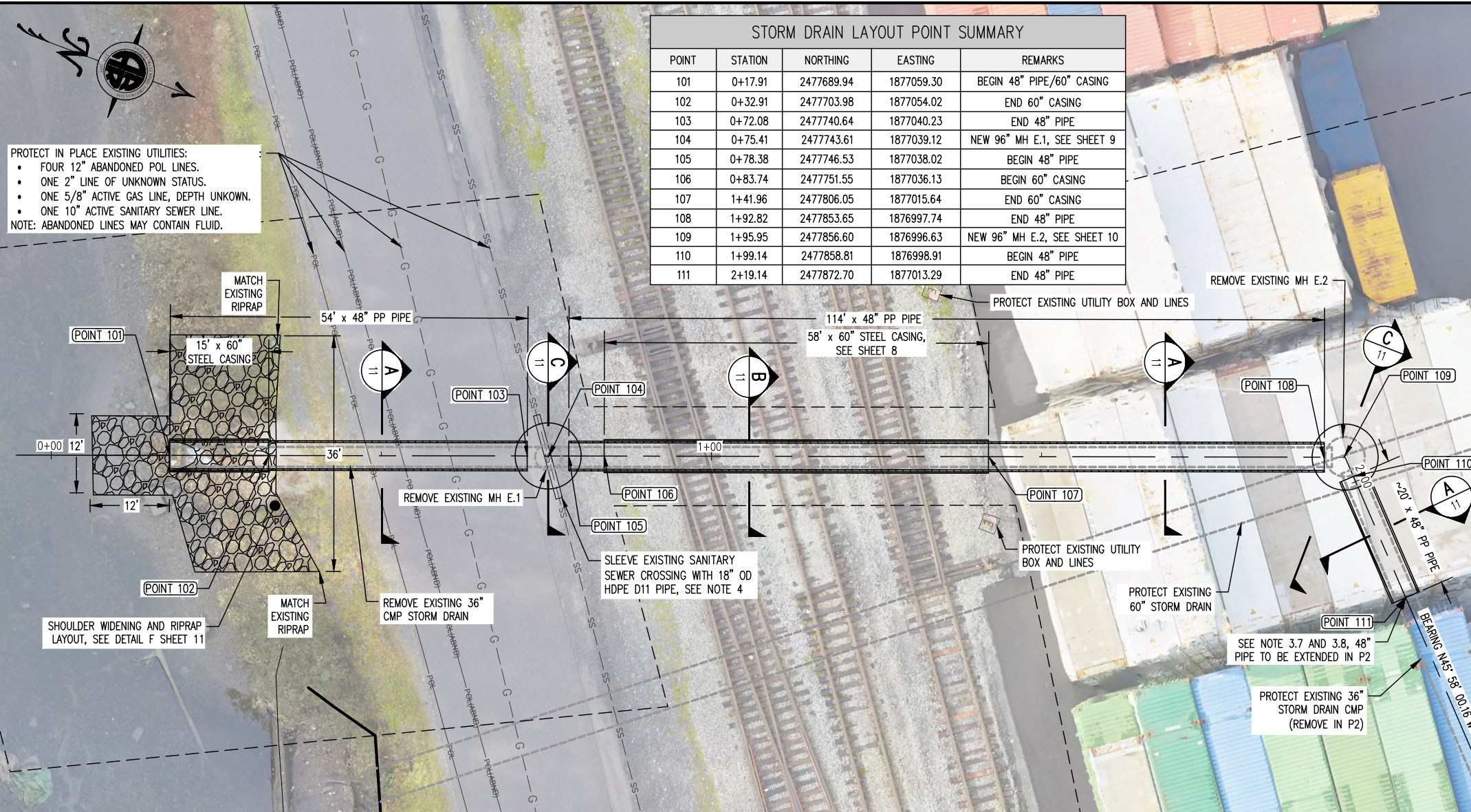
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**ALASKA**  
 RAILROAD

PROJECT: WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1  
 SHEET TITLE: PHASE 1 WORK ZONE LIMITS AND DEMOLITION PLAN

AFE NO. XXX  
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 SHEET 6 OF 13

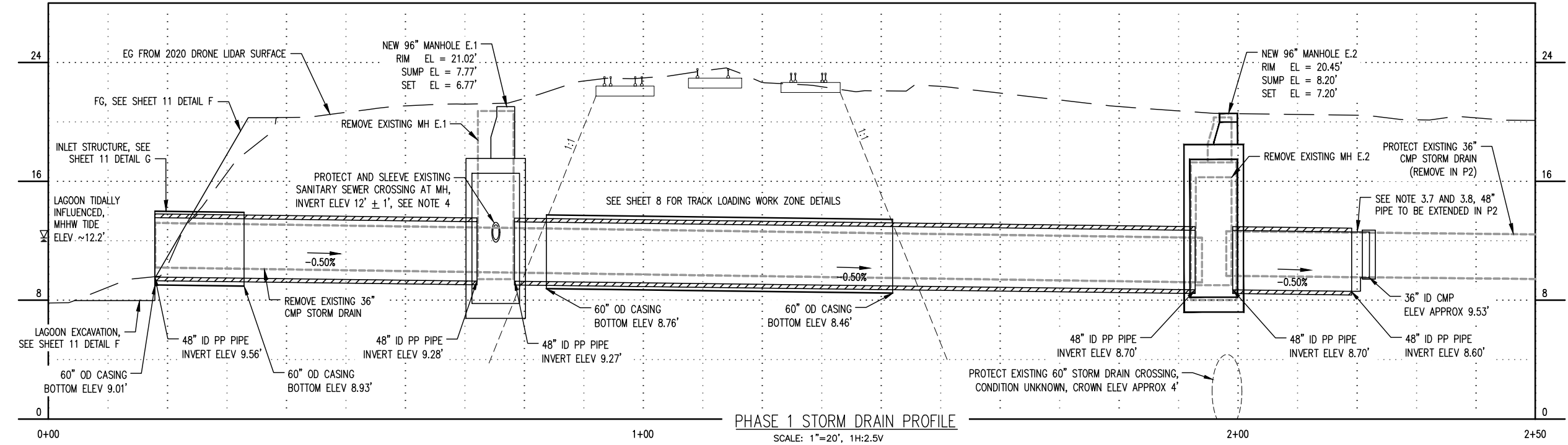
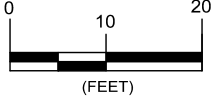
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POINT	STATION	NORTHING	EASTING	REMARKS
101	0+17.91	2477689.94	1877059.30	BEGIN 48" PIPE/60" CASING
102	0+32.91	2477703.98	1877054.02	END 60" CASING
103	0+72.08	2477740.64	1877040.23	END 48" PIPE
104	0+75.41	2477743.61	1877039.12	NEW 96" MH E.1, SEE SHEET 9
105	0+78.38	2477746.53	1877038.02	BEGIN 48" PIPE
106	0+83.74	2477751.55	1877036.13	BEGIN 60" CASING
107	1+41.96	2477806.05	1877015.64	END 60" CASING
108	1+92.82	2477853.65	1876997.74	END 48" PIPE
109	1+95.95	2477856.60	1876996.63	NEW 96" MH E.2, SEE SHEET 10
110	1+99.14	2477858.81	1876998.91	BEGIN 48" PIPE
111	2+19.14	2477872.70	1877013.29	END 48" PIPE

- PHASE 1 CONSTRUCTION NOTES:**
- CONTRACTOR SHALL PROTECT EXISTING UTILITIES TO REMAIN. EXISTING LOCATIONS ARE APPROXIMATE. SEE SHEET 6 FOR WORK ZONE LIMITS.
  - SEE GENERAL NOTE 3 ON SHEET 2 FOR TRACK OUTAGE REQUEST AND ADDITIONAL TRACK TRENCHING SUBMITTAL REQUIREMENTS.
  - THE FOLLOWING ACTIVITIES MUST BE DETAILED IN THE CRITICAL PATH METHOD SCHEDULE:
    - INSTALL NEW 96" MH E.2, 604.0001.0096
    - INSTALL 60" CASING WITHIN RAILBED, 603.0025.0060.
    - INSTALL 48" PP PIPE IN RAILYARD FROM LAGOON INLET TO MH E.2, 603.0023.0048.
    - GROUT ANNULUS SPACE AT BOTH ENDS OF THE CASING, SEE DETAIL E SHEET 11, 603.0025.0060.
    - INSTALL 60" CASING SECTION FOR INLET SECTION AND GROUT ANNULUS SPACE AT BOTH ENDS OF INLET CASING, SEE DETAIL E SHEET 11, 603.0025.0060.
    - INSTALL NEW 96" MH E.1, 604.0001.0072, SEE NOTE 4. FOR ADDITIONAL REQUIREMENTS.
    - INSTALL NEW 48" PP PIPE FROM NEW MH E.2 OUT APPROXIMATELY 20', 603.0023.0048.
    - INSTALL 48" TO 36" REDUCING COUPLER ON 48" ID PP PIPE AT POINT 111 AND INSTALL DISSIMILAR PIPE COUPLER BETWEEN REDUCER AND EXISTING 36" CMP, 603.0023.0048.
  - MH E.1 CONTAINS AN EXISTING ACTIVE SANITARY SEWER (SS) LINE CROSSING.
    - HDPE SLEEVE AND MANHOLE SLEEVE SEALS AND EXISTING CONDUIT WORK TO INSTALL SLEEVE ARE SUBSIDIARY TO ITEM 626.0003.0018.
    - PROTECT EXISTING SS LINE DURING CONSTRUCTION OF MH E.1, SUBSIDIARY TO ITEMS 202.0006.0000 AND 604.0001.0096.
    - NO WORK IMPACTING THE SS LINE SHALL PROCEED WITHOUT APPROVED PROTECTION MEASURES IN PLACE.
    - THE EXISTING SS LINE SHALL REMAIN OPERATIONAL DURING CONSTRUCTION OF MH E.1.
    - THE CONTRACTOR SHALL SUBMIT A DETAILED WORK PLAN DEMONSTRATING ONE OF THE FOLLOWING METHODS, OR PROVIDE AN SUITABLE ALTERNATIVE:
      - TEMPORARY BYPASS PUMPING OR REROUTING OF THE SS LINE DURING MANHOLE INSTALLATION. CORING OF THE INSTALLED MANHOLE AND CONNECTION OF A NEW SS PIPE SECTION WITH HDPE SLEEVE THROUGH MH E.1; OR
      - USE OF PREFABRICATED MANHOLE SECTIONS DESIGNED TO ENCAPSULATE THE EXISTING SS LINE AND ADDITIONAL HDPE SLEEVE. PLAN SHALL INCLUDE MEANS AND METHODS OF MEETING COMPACTION REQUIREMENTS BELOW THE MH.

PHASE 1 STORM DRAIN PLAN  
SCALE: 1"=20'



PHASE 1 STORM DRAIN PROFILE  
SCALE: 1"=20', 1H:2.5V

DESIGNED BY: REH  
 CHECKED BY: EKB  
 DRAFTED BY: MKM

IFB PLANS NOT FOR CONSTRUCTION

MICHAEL BAKER INTERNATIONAL  
 3900 G ST., SUITE 900  
 ANCHORAGE, AK 99503  
 (907) 273-1600  
 LICENSE # AECC103

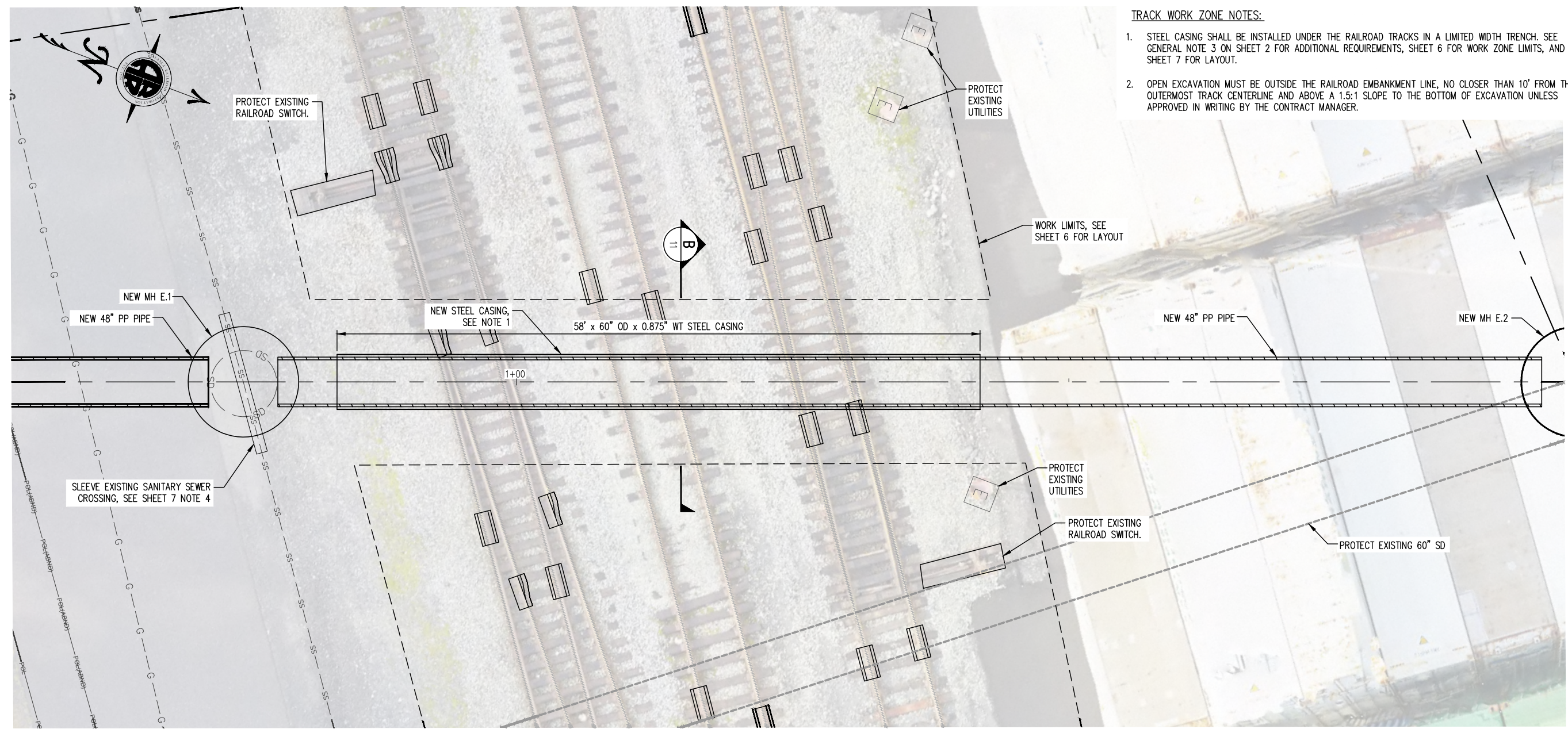
**Michael Baker INTERNATIONAL**  
 A/E FIRM

ENGINEERING DEPARTMENT  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500

PROJECT: WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1  
 SHEET TITLE: PHASE 1 STORM DRAIN AND MANHOLE PLAN AND PROFILE

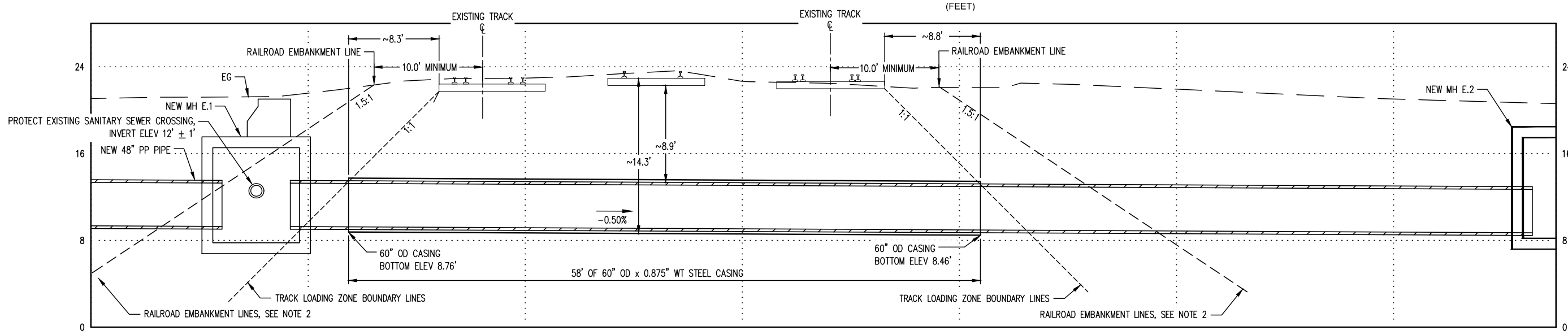
AFE NO. XXX  
 YEAR 2026  
 SHEET 7 OF 13

DRAWING LOCATION: T:\ARRC\196569 ARRCC WHITTIER SEWER PIPE\05 WORKING\CIVIL\PRODUCTION\196569\_BORE.DWG  
 DATE: 4/6/2026 3:27 PM  
 TIME: 3:27 PM  
 SCALE: AS NOTED  
 PUBLISHED: CTB  
 ARRC\_CTB\_2021.CTB



- TRACK WORK ZONE NOTES:**
1. STEEL CASING SHALL BE INSTALLED UNDER THE RAILROAD TRACKS IN A LIMITED WIDTH TRENCH. SEE GENERAL NOTE 3 ON SHEET 2 FOR ADDITIONAL REQUIREMENTS, SHEET 6 FOR WORK ZONE LIMITS, AND SHEET 7 FOR LAYOUT.
  2. OPEN EXCAVATION MUST BE OUTSIDE THE RAILROAD EMBANKMENT LINE, NO CLOSER THAN 10' FROM THE OUTERMOST TRACK CENTERLINE AND ABOVE A 1.5:1 SLOPE TO THE BOTTOM OF EXCAVATION UNLESS APPROVED IN WRITING BY THE CONTRACT MANAGER.

**TRACK WORK ZONE PLAN**  
 SCALE: 1"=10'  
 0 5 10 (FEET)



**TRACK WORK ZONE PROFILE**  
 SCALE: 1"=10', 1H:1V

DESIGNED BY: REH  
 CHECKED BY: EKB  
 DRAFTED BY: MKM

IFB PLANS NOT FOR CONSTRUCTION

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A/E FIRM

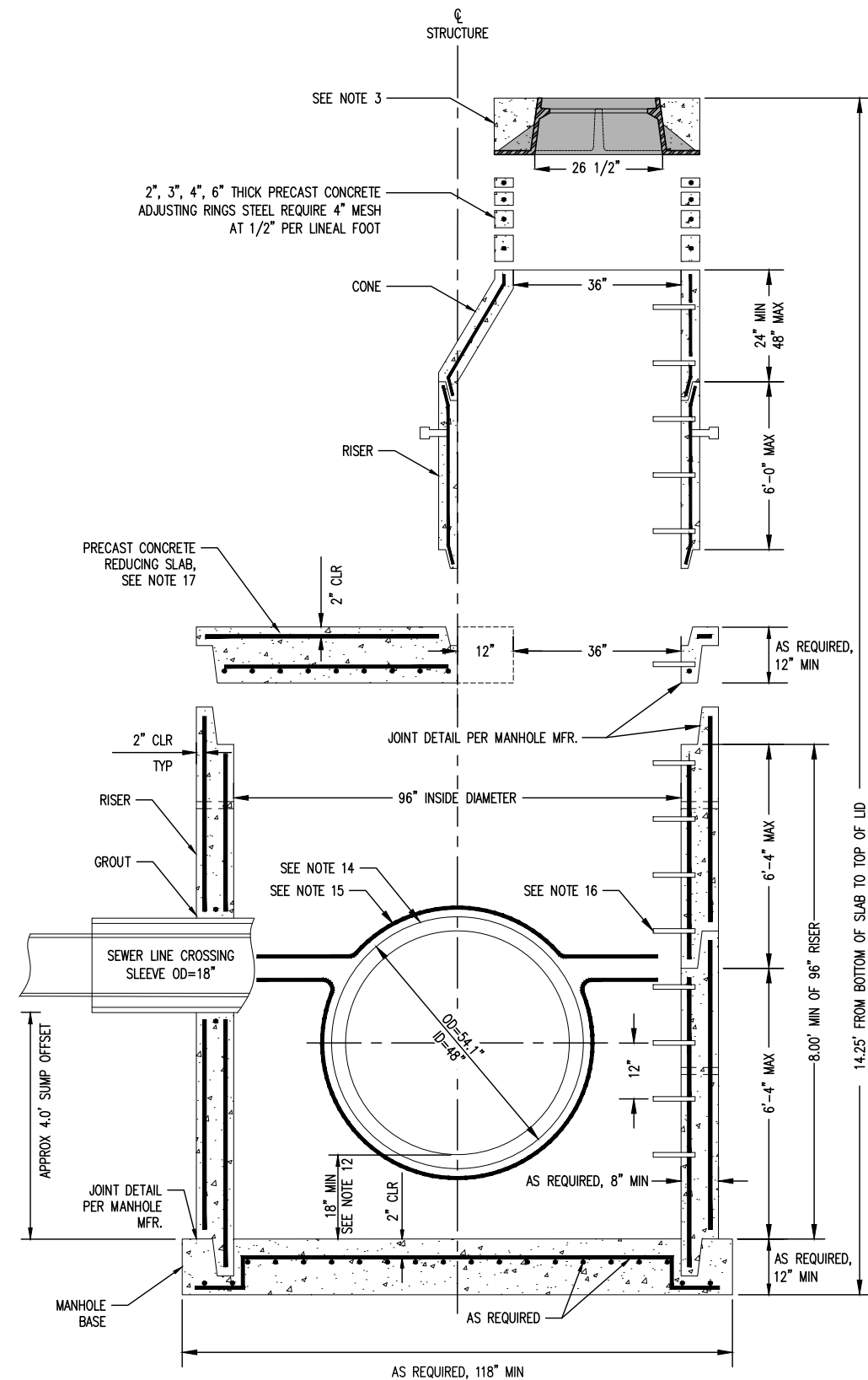
ENGINEERING DEPARTMENT  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500



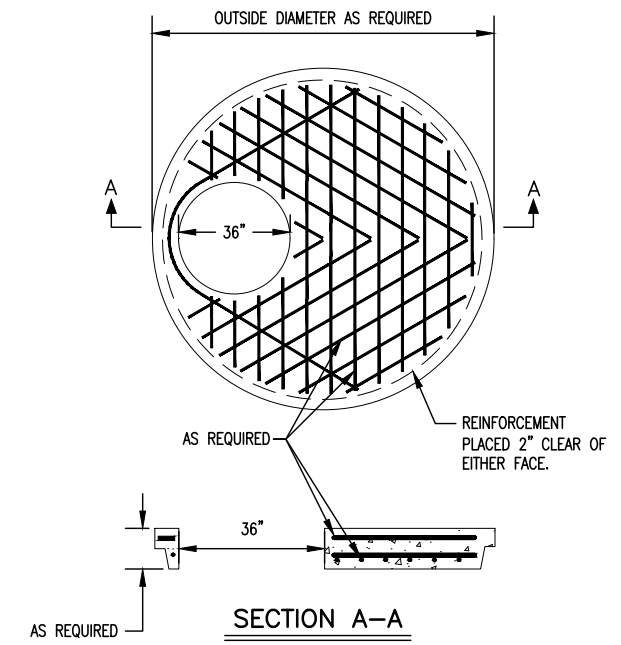
PROJECT: WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1  
 SHEET TITLE: OPEN CUT TRACK PLAN AND PROFILE

AFE NO. XXX  
 YEAR 2026  
 SHEET 8 OF 13

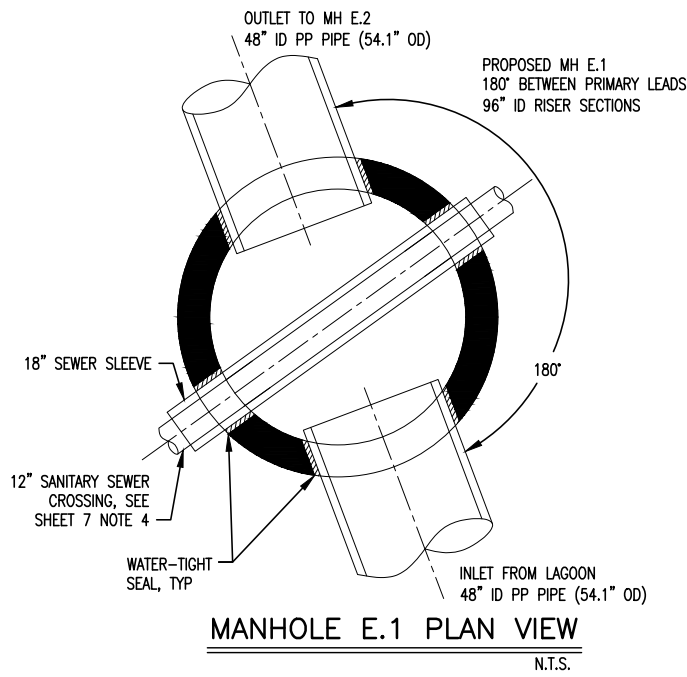
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 ARRC\_CTB\_2021.CTB



**STORM DRAIN MANHOLE, E.1**  
N.T.S.



**PRECAST CONCRETE REDUCING SLAB**  
(AS REQUIRED- SEE NOTE 1)  
N.T.S.



MH E.1 STRUCTURE SUMMARY TABLE				
MANHOLE I.D	MIN WALL THICKNESS	MIN BASE THICKNESS	MIN TOP SLAB THICKNESS	MIN BASE PAD DIAMETER
96"	8"	12"	12"	118"

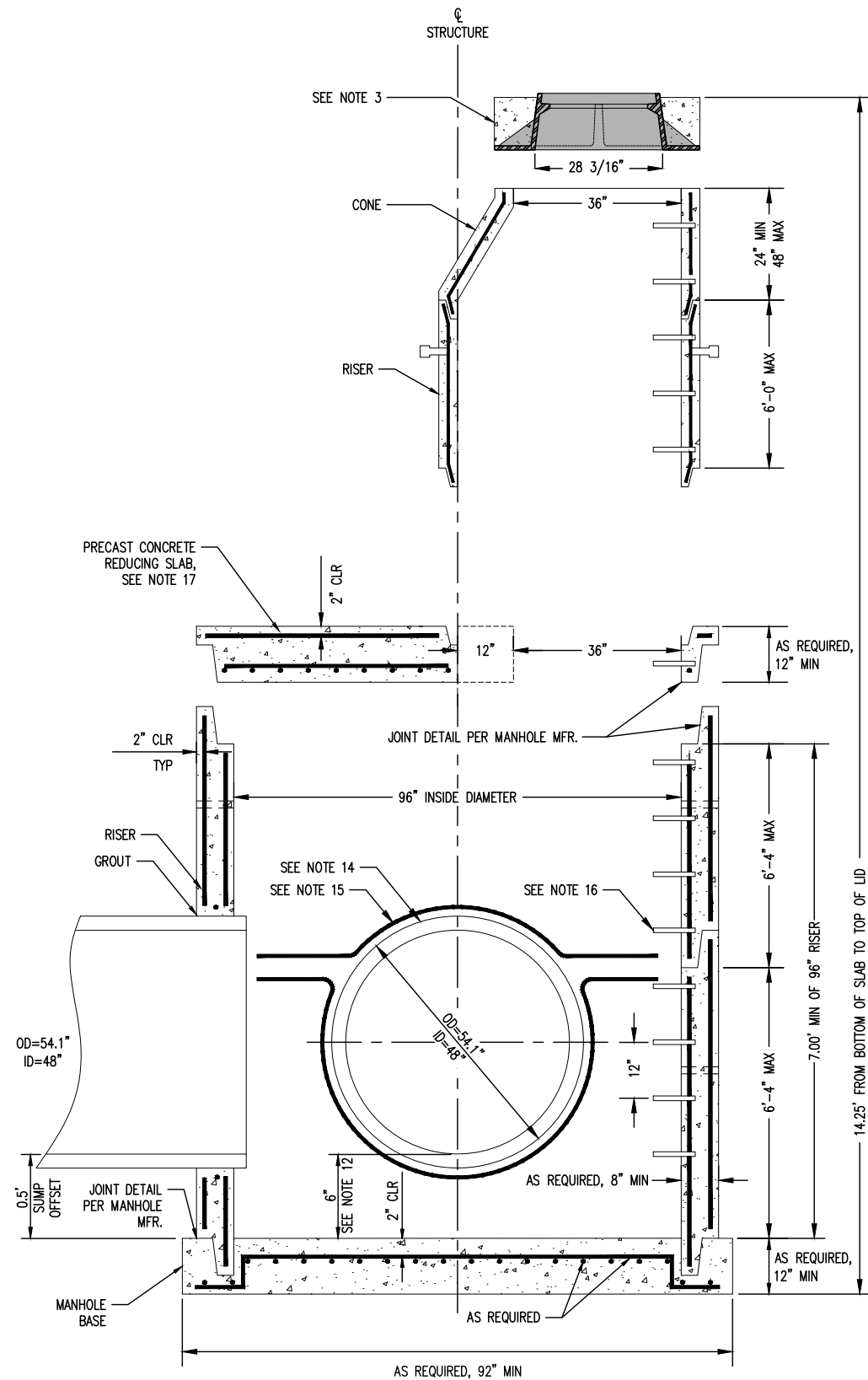
**MANHOLE NOTES:**

- LIVE LOAD FOR DESIGN OF THE MANHOLE BARRELS, RISER, REDUCING SLAB, AND LID IS AASHTO HL-93 (HS20 AND DESIGN TANDEM AXLE/WHEEL LOADS).
- SHOP DRAWINGS SHALL INCLUDE ALASKA PROFESSIONAL ENGINEER SEAL AND MUST BE SUBMITTED FOR APPROVAL.
- MANHOLE LID, FRAME, AND ALL STRUCTURAL COMPONENTS MUST BE INCLUDED IN SHOP DRAWINGS.
- THESE DRAWINGS ARE FOR PRECAST REINFORCED CONCRETE FOR HIGHWAY USE. CAST IN PLACE STRUCTURES MAY BE USED AS APPROVED BY THE OWNER'S ENGINEER.
- MEET THE REQUIREMENTS OF ASTM C-478 FOR ALL DRAINAGE STRUCTURES AND APPURTENANCES.
- WHEN BASE PAD IS ATTACHED TO FIRST BARREL SECTION, MINIMUM STEEL REQUIRED FOR BARREL AS PER ASTM C-478 SHALL BE IMBEDDED IN BASE SO THAT THE FIRST BARREL SECTION IS CONNECTED TO THE BASE BY CONTINUOUS STEEL. REINFORCING STEEL TO CONFORM TO ASTM A615, GRADE 60.
- MINIMUM COVER ON REINFORCING STEEL IS 1" FOR PRE-CAST CONCRETE.
- USE CLASS A-A CONCRETE, MIN 5000 PSI 28-DAY DESIGN STRENGTH PER ALASKA RAILROAD STANDARD SPECIFICATION FOR CONSTRUCTION 2025 ED.
- SEAL RISER JOINTS WITH FLEXIBLE BUTYL JOINT SEALANT, CONFORMING TO ASTM C990. JOINT SEALANT IS TO NOT CONTAIN ANY BITUMEN OR ASPHALT MATERIALS.
- PROVIDE NON-SHRINK GROUT, MIN 5000 PSI 28-DAY DESIGN STRENGTH. PROTECT GROUT DURING CURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED METHOD.
- FORM ALL BLOCK-OUTS.
- MANHOLE E.1 AND INLETS SHALL HAVE 18" MINIMUM SUMPS.
- OFFSET IS MEASURED TO CENTERLINE OF STRUCTURE.
- EXTEND PIPE 2" MIN INTO MANHOLE. SEAL PIPE PENETRATIONS WITH NON-SHRINKABLE GROUT MIXED WITH POTABLE WATER PER MANUFACTURER'S RECOMMENDATIONS.
- ALL PENETRATIONS REQUIRE ADDITIONAL #4 HOOP.
- MANHOLE STEPS SHALL:
  - MEET CURRENT OSHA STANDARDS FOR STEPS AND ACCESS OPENINGS.
  - STEPS SHALL BE PLACED 12" OC ON AN UNOBSTRUCTED SIDE OF THE STRUCTURE, 18" MAXIMUM FROM MANHOLE BASE. IF UNOBSTRUCTED SIDE NOT AVAILABLE, BOTTOM STEP TO BE PLACED 6" OVER SMALLEST PIPE. WHEN USING A CONE, FIRST LADDER RUNG IS 8" MAXIMUM FROM TOP OF CONE. WHEN USING A FLAT LID, FIRST LADDER RUNG IS 4" MAXIMUM FROM TOP OF RISER.
  - PROVIDE INJECTION MOLDED POLYPROPYLENE COVERED GRADE 60 STEEL STEPS TIGHTLY IMBEDDED AT LEAST 3" INTO CONCRETE.
  - INSTALL STEPS TO RESIST A PULLOUT FORCE OF 1500 LB.
  - THE MINIMUM DIAMETER OF CLEAR ACCESS TO STEP IS 24".
- THE REDUCING SLAB SHALL:
  - USE NO. 6 FOR ALL REBAR EXCEPT STIRRUPS AND HOOPS.
  - ALL REBAR SHALL BE SPACED AT 6" CENTERS UNLESS OTHERWISE NOTED.
  - FOR PRECAST CONCRETE ITEMS, MAINTAIN A MINIMUM OF 1 1/2" OF CONCRETE COVER OVER ALL REBAR.
  - REINFORCING STEEL SHOWN IS A MINIMUM PER ASTM C478. PRECAST MFR TO COMPLETE AND SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO FABRICATION.

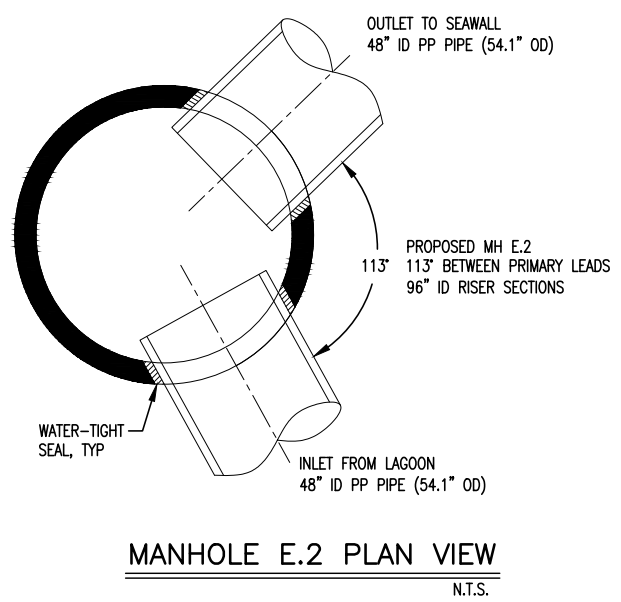
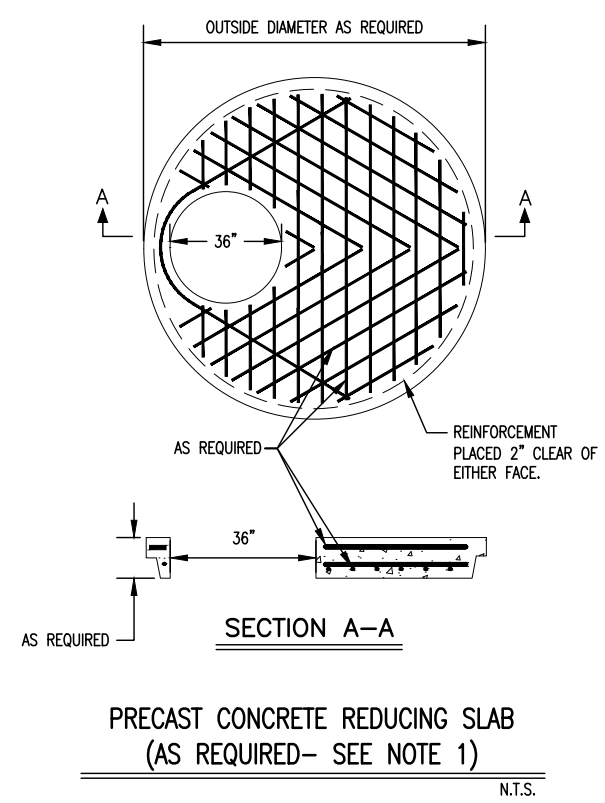
DESIGNED BY:	JMC
CHECKED BY:	NRP
DRAFTED BY:	MKM
IFB PLANS NOT FOR CONSTRUCTION	
<small>MICHAEL BAKER INTERNATIONAL        3900 C ST, SUITE 900        ANCHORAGE, AK 99503        (907) 273-1600        LICENSE # AECC103</small>	
A/E FIRM	
ENGINEERING DEPARTMENT	ALASKA RAILROAD
P.O. BOX 107500	ANCHORAGE, ALASKA 99510-7500
PROJECT:	WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1
SHEET TITLE:	MANHOLE E.1 DETAIL SHEET
A/E NO.	XXX
YEAR	2026
SHEET	9 OF 13

**MANHOLE NOTES:**

1. LIVE LOAD FOR DESIGN OF THE MANHOLE BARRELS, RISER, REDUCING SLAB, AND LID IS TO BE RATED FOR A 245 KIP FRONT AXLE LOAD. SEE CONTAINER HANDLER FOR DESIGN VEHICLE DETAILS.
2. SHOP DRAWINGS SHALL INCLUDE ALASKA PROFESSIONAL ENGINEER SEAL AND MUST BE SUBMITTED FOR APPROVAL.
3. MANHOLE LID, FRAME, AND ALL STRUCTURAL COMPONENTS MUST BE INCLUDED IN SHOP DRAWINGS. REUSE THE EXISTING MANHOLE E.2 LID WITH PRECAST ENGINEER VERIFICATION AND APPROVAL.
4. THESE DRAWINGS ARE FOR PRECAST REINFORCED CONCRETE FOR HIGHWAY USE. CAST IN PLACE STRUCTURES MAY BE USED AS APPROVED BY THE OWNER'S ENGINEER.
5. MEET THE REQUIREMENTS OF ASTM C-478 FOR ALL DRAINAGE STRUCTURES AND APPURTENANCES.
6. WHEN BASE PAD IS ATTACHED TO FIRST BARREL SECTION, MINIMUM STEEL REQUIRED FOR BARREL AS PER ASTM C-478 SHALL BE IMBEDDED IN BASE SO THAT THE FIRST BARREL SECTION IS CONNECTED TO THE BASE BY CONTINUOUS STEEL. REINFORCING STEEL TO CONFORM TO ASTM A615, GRADE 60.
7. MINIMUM COVER ON REINFORCING STEEL IS 1" FOR PRE-CAST CONCRETE.
8. USE CLASS A-A CONCRETE, MIN 5000 PSI 28-DAY DESIGN STRENGTH PER ALASKA RAILROAD STANDARD SPECIFICATION FOR CONSTRUCTION 2025 ED.
9. SEAL RISER JOINTS WITH FLEXIBLE BUTYL JOINT SEALANT, CONFORMING TO ASTM C990. JOINT SEALANT IS TO NOT CONTAIN ANY BITUMEN OR ASPHALT MATERIALS.
10. PROVIDE NON-SHRINK GROUT, MIN 5000 PSI 28-DAY DESIGN STRENGTH. PROTECT GROUT DURING CURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED METHOD.
11. FORM ALL BLOCK-OUTS.
12. MANHOLE E.2 AND INLETS SHALL HAVE 6" MINIMUM SUMP.
13. OFFSET IS MEASURED TO CENTERLINE OF STRUCTURE.
14. EXTEND PIPE 2" MIN INTO MANHOLE. SEAL PIPE PENETRATIONS WITH NON-SHRINKABLE GROUT MIXED WITH POTABLE WATER PER MANUFACTURER'S RECOMMENDATIONS.
15. ALL PENETRATIONS REQUIRE ADDITIONAL #4 HOOP.
16. MANHOLE STEPS SHALL:
  - 16.1. MEET CURRENT OSHA STANDARDS FOR STEPS AND ACCESS OPENINGS.
  - 16.2. STEPS SHALL BE PLACED 12" OC ON AN UNOBSTRUCTED SIDE OF THE STRUCTURE, 18" MAXIMUM FROM MANHOLE BASE. IF UNOBSTRUCTED SIDE NOT AVAILABLE, BOTTOM STEP TO BE PLACED 6" OVER SMALLEST PIPE. WHEN USING A CONE, FIRST LADDER RUNG IS 8" MAXIMUM FROM TOP OF CONE. WHEN USING A FLAT LID, FIRST LADDER RUNG IS 4" MAXIMUM FROM TOP OF RISER.
  - 16.3. PROVIDE INJECTION MOLDED POLYPROPYLENE COVERED GRADE 60 STEEL STEPS TIGHTLY IMBEDDED AT LEAST 3" INTO CONCRETE.
  - 16.4. INSTALL STEPS TO RESIST A PULLOUT FORCE OF 1500 LB.
  - 16.5. THE MINIMUM DIAMETER OF CLEAR ACCESS TO STEP IS 24".
17. THE REDUCING SLAB SHALL:
  - 17.1. USE NO. 6 FOR ALL REBAR EXCEPT STIRRUPS AND HOOPS.
  - 17.2. ALL REBAR SHALL BE SPACED AT 6" CENTERS UNLESS OTHERWISE NOTED.
  - 17.3. FOR PRECAST CONCRETE ITEMS, MAINTAIN A MINIMUM OF 1 1/2" OF CONCRETE COVER OVER ALL REBAR.
  - 17.4. REINFORCING STEEL SHOWN IS A MINIMUM PER ASTM C478. PRECAST MFR TO COMPLETE AND SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO FABRICATION.

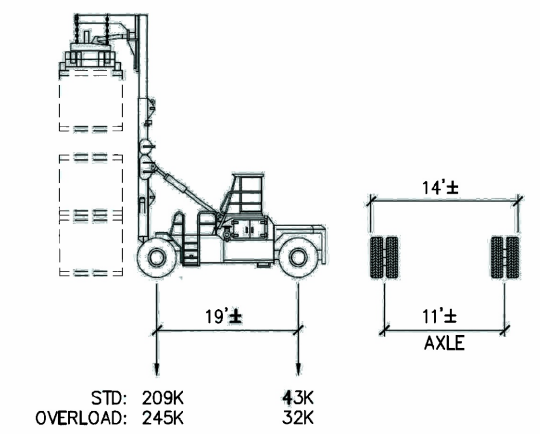


**STORM DRAIN MANHOLE, E.2**  
N.T.S.



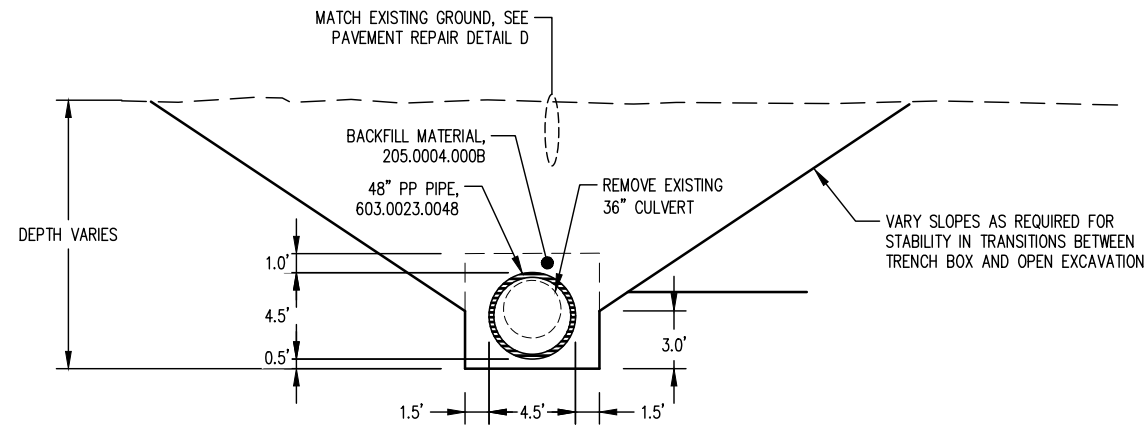
MH E.2 STRUCTURE SUMMARY TABLE				
MANHOLE I.D	MIN WALL THICKNESS	MIN BASE THICKNESS	MIN TOP SLAB THICKNESS	MIN BASE PAD DIAMETER
96"	8"	12"	12"	118"

**DESIGN VEHICLES**

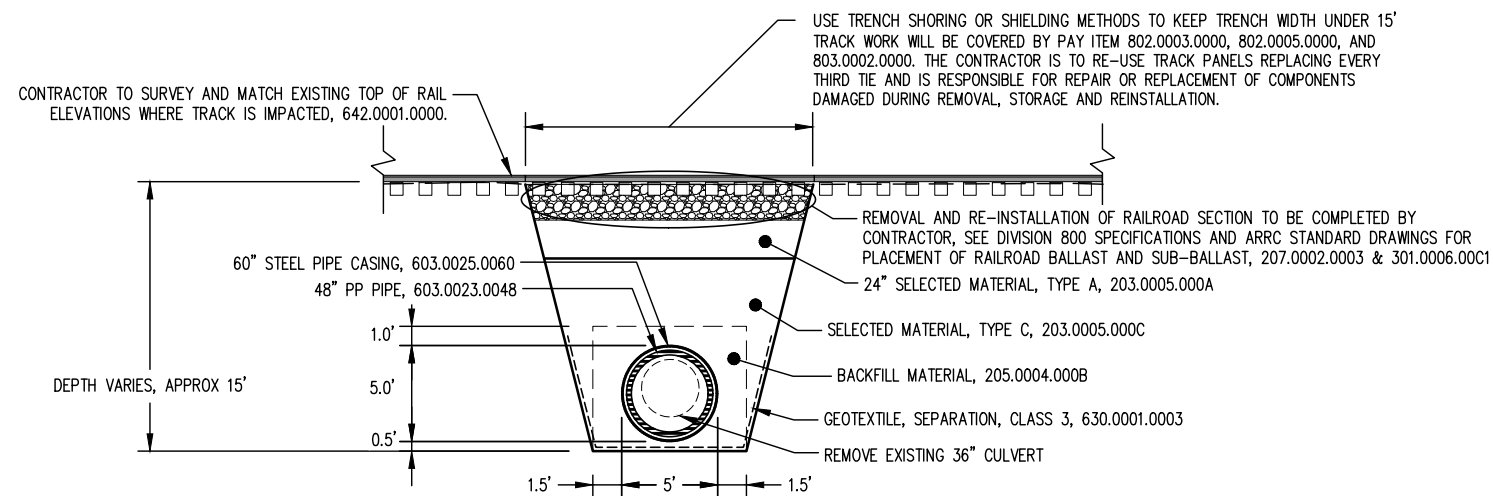


**CONTAINER HANDLER**  
 STD GVW= 252K IMPACT=20%  
 OVERLOAD GVW= 277K IMPACT=10%

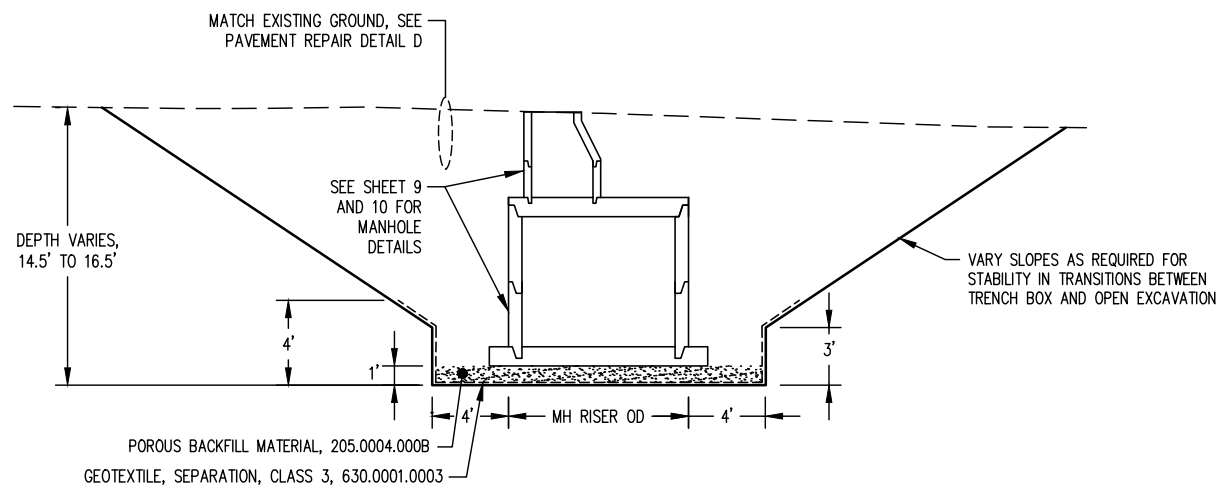
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 ARRC-CTB\_2021.CTB



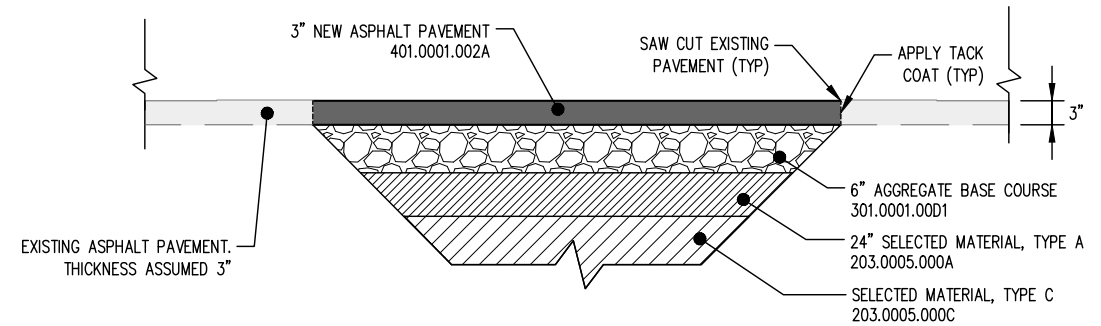
**A**  
11  
DEPOT ROAD AND RAIL YARD TRENCH DETAIL  
SCALE: NTS



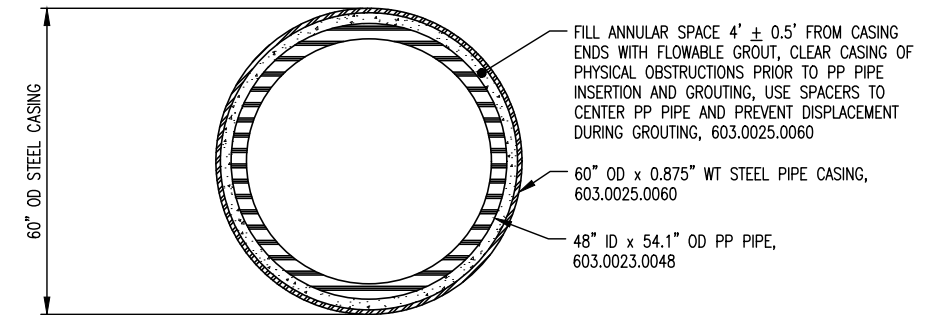
**B**  
11  
TRACK TRENCH DETAIL  
SCALE: NTS



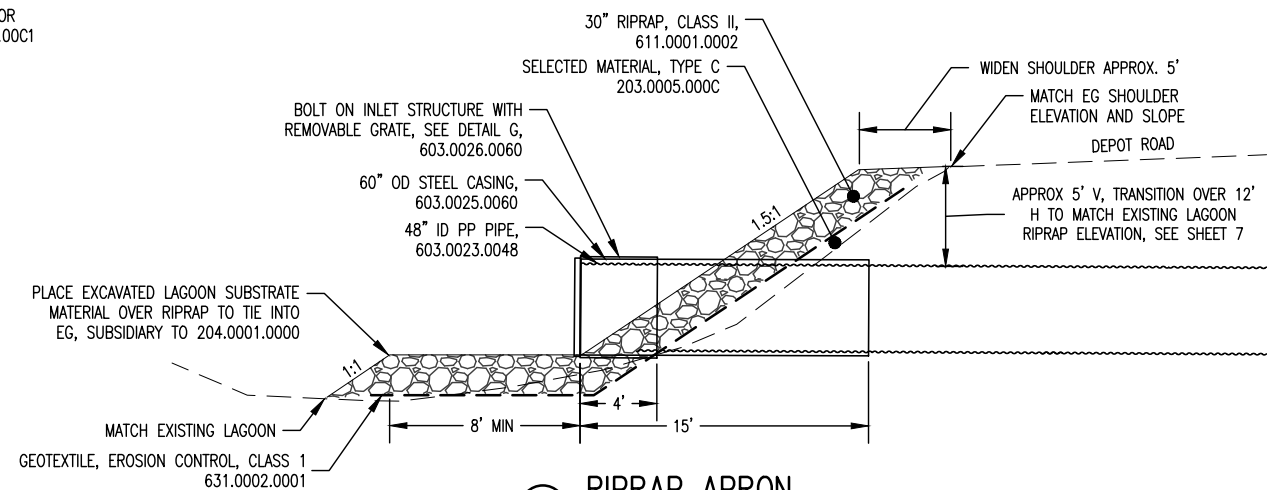
**C**  
11  
MANHOLE TRENCH DETAIL  
SCALE: NTS



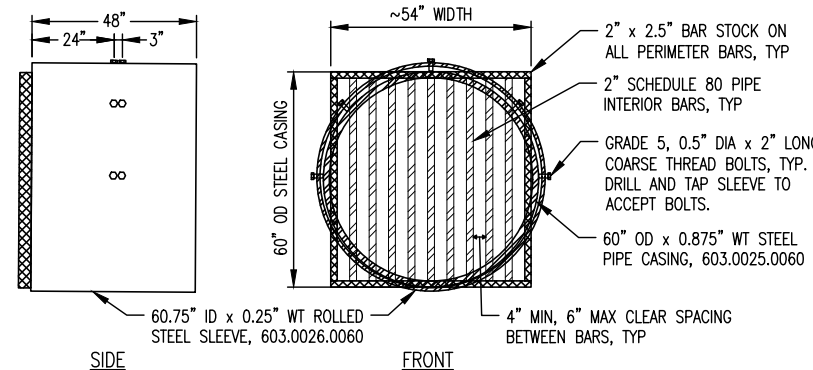
**D**  
11  
PAVEMENT REPAIR DETAIL  
SCALE: NTS



**E**  
11  
STEEL CASING GROUT DETAIL  
SCALE: NTS



**F**  
11  
RIPRAP APRON  
SCALE: NTS



**G**  
11  
INLET STRUCTURE DETAIL  
SCALE: NTS

**INLET STRUCTURE NOTES:**

1. PROVIDE A SHOP FABRICATED REMOVABLE STEEL INLET STRUCTURE THAT BOLTS TO THE 60" OD CASING PIPE. GRATE TO COVER ENTIRETY OF THE 48" ID PP PIPE OPENING.
2. HOT DIP GALVANIZE ALL STEEL USED IN GRATE.
3. PRIOR TO FABRICATION: INLET STRUCTURE SHOP DRAWINGS TO BE SUBMITTED TO CONTRACT MANAGER FOR APPROVAL.
4. TO BE INSTALLED BY OTHERS.

DESIGNED BY: REH  
 CHECKED BY: EKB  
 DRAFTED BY: MKM

IFB PLANS NOT FOR CONSTRUCTION

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 LICENSE # AECC103

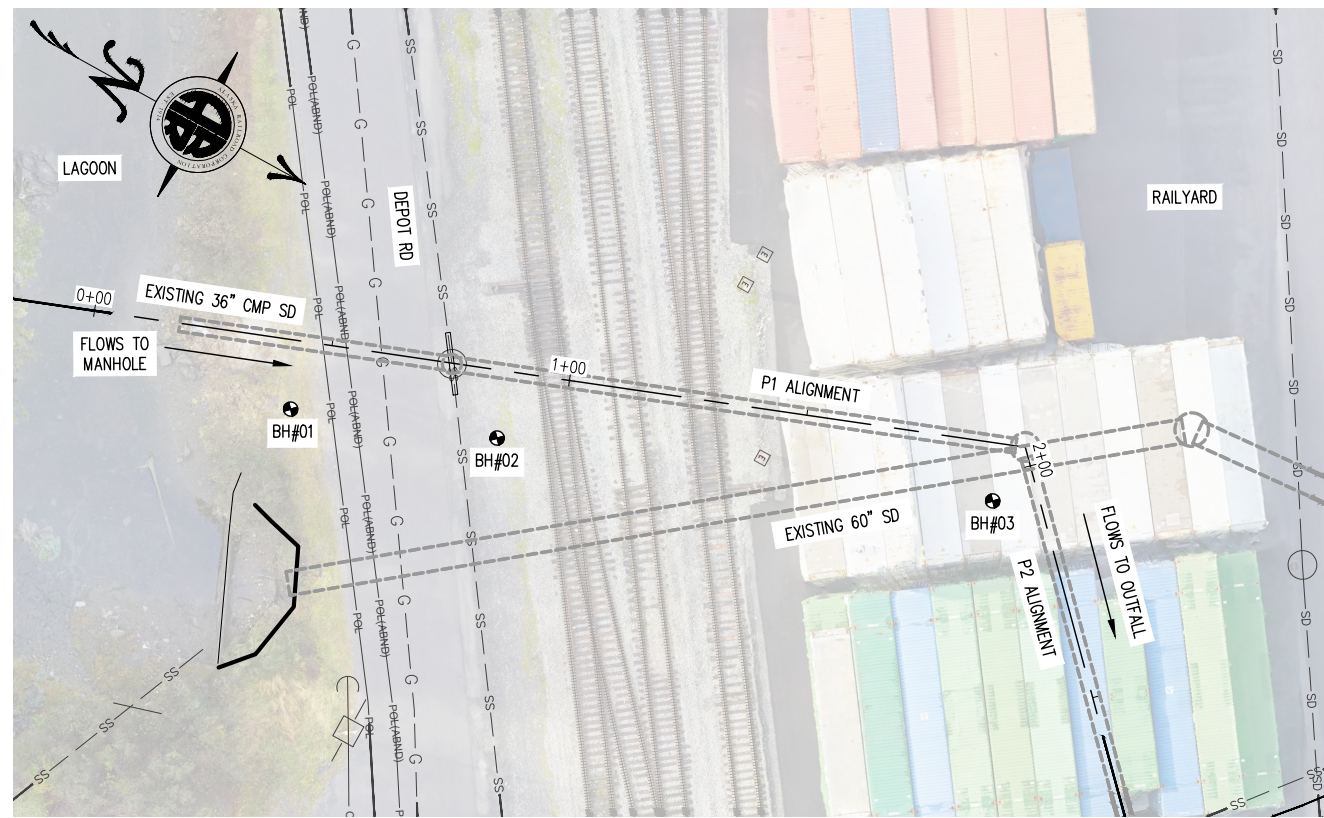
**Michael Baker**  
 INTERNATIONAL

A/E FIRM

ENGINEERING DEPARTMENT  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500

**ALASKA**  
 RAILROAD

PROJECT: WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1  
 SHEET TITLE: CIVIL DETAIL SHEET  
 AFE NO. XXX  
 YEAR 2026  
 SHEET 11 OF 13



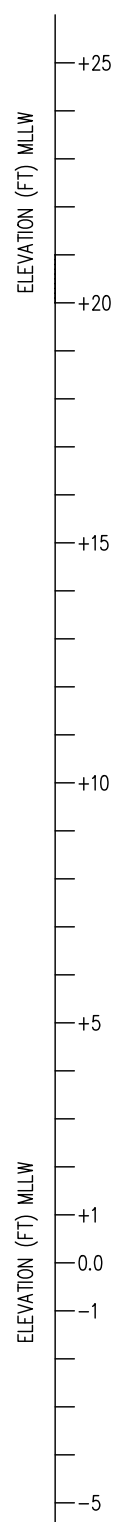
BOREHOLE PLAN

LEGEND

- BOREHOLE LOCATION: [Symbol]
- MSPT N (BLOWS/FT): 16 [Symbol]
- SAMPLE RECOVERY (%): 33 [Symbol]
- ROCK: [Symbol]
- SILT: [Symbol]
- SANDY GRAVELS: [Symbol]
- GRAVELLY SANDS: [Symbol]
- SAMPLE TYPE: S3 [Symbol]
- SAMPLE NUMBER: 1.2 [Symbol]

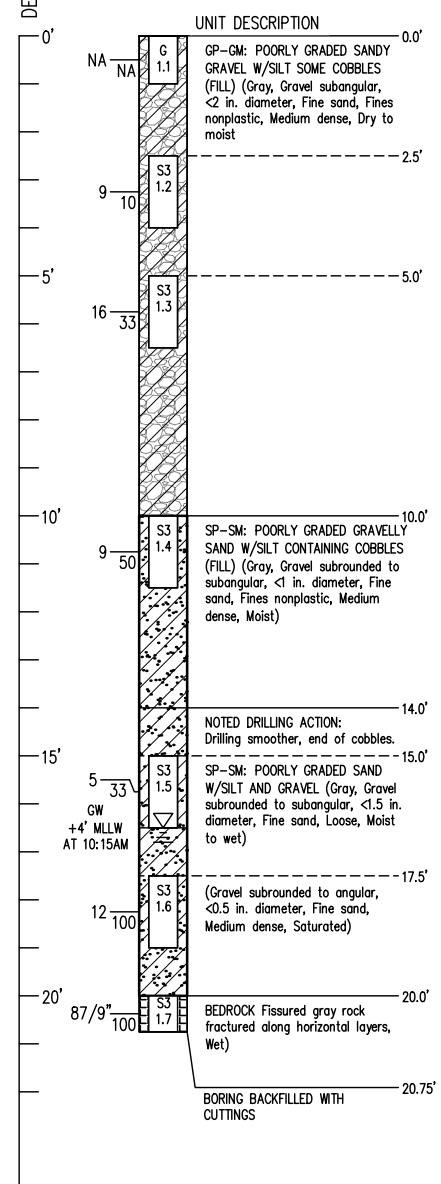
BOREHOLE NOTES:

1. THE BOREHOLE LOGS DEPICTED GRAPHICALLY IN THESE DRAWINGS ARE DISTILLATIONS. LOGS SHOWN INCLUDE SOIL CLASSIFICATIONS BASED ON FIELD AND LABORATORY TEST DATA, REVIEW AND ANALYSIS.
2. FIELD BLOW COUNTS WERE OBTAINED USING THE MODIFIED STANDARD PENETRATION TEST (MSPT) (340LB HAMMER, 3-INCH OUTER DIAMETER SPLIT SPOON).
3. SAMPLE RECOVERY WAS LIMITED DUE TO LARGE GRAVELS OR COBBLES BLOCKING 3-INCH SPLIT SPOON, AT DEPTHS GREATER THAN 15- FEET SATURATED CUTTINGS TOOK UP LARGE PORTIONS OF RECOVERED MATERIAL AND WERE EXCLUDED
4. BOREHOLES WERE DRILLED ON JULY 21, 2025 BY DISCOVERY DRILLING USING A GEOPROBE 6712DT.
5. GROUNDWATER TABLE APPEARED TO BE VARIABLE AND TIDALLY INFLUENCED. BOREHOLE #01 WAS DRILLED ON A RISING TIDE, #02 AT PEAK HIGH TIDE, AND #03 ON A FALLING TIDE.
  - 5.1. WHITTIER TIDE GAUGE MLLW DATUM FORECAST WAS -0.5 FT LOW @ 5:20AM, +8.6 FT HIGH @ 12:02PM, AND +4.4FT LOW @ 5:01PM.
  - 5.2. MSL DATUM FORECAST WAS -7.0 FT LOW, 2.1 FT HIGH, AND -2.1FT LOW.
  - 5.3. NAVD88(G12B) DATUM FORECAST WAS -1.0 FT LOW, +8.1 FT HIGH, +3.9 FT LOW.
6. SIEVE ANALYSIS OF FILL MATERIAL (COMPOSITE SAMPLE OF THE THREE BOREHOLES, SAMPLES COLLECTED FROM 0 TO 10 FEET): (SM) GRAVELLY SILTY SAND: 34% GRAVEL, 50% SAND, 16% SILT.



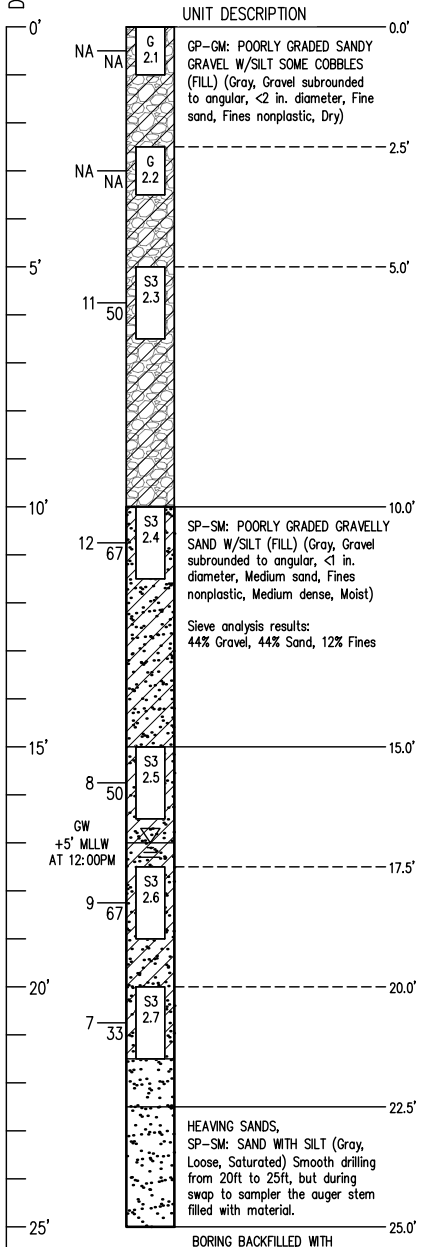
BH#01

DATE: 07/21/2025  
 ELEVATION: 20.5-FT  
 STATION: 0+42, 43' RT



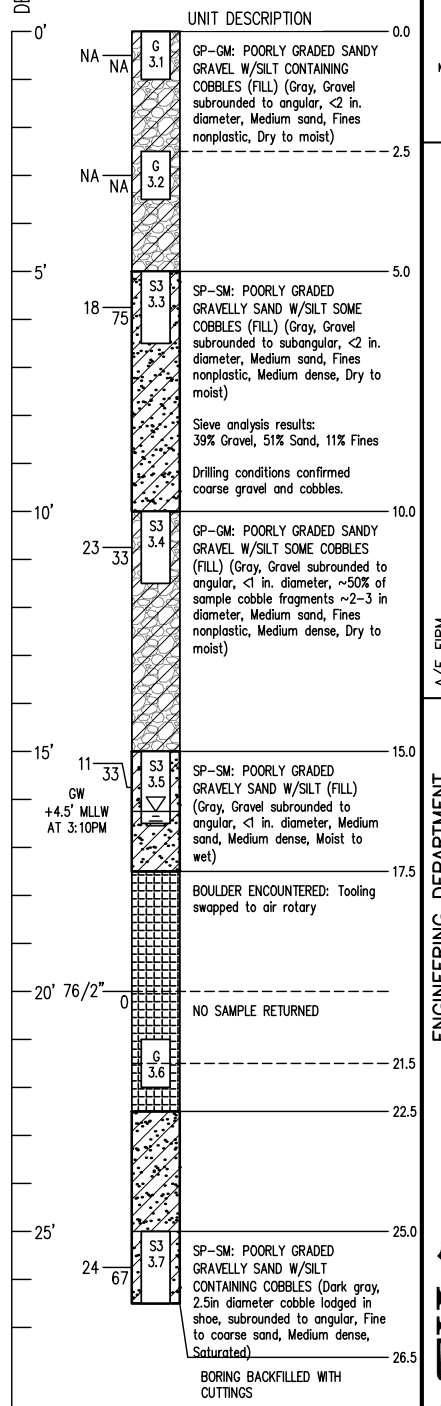
BH#02

DATE: 07/21/2025  
 ELEVATION: 22.0-FT  
 STATION: 0+85, 49' RT



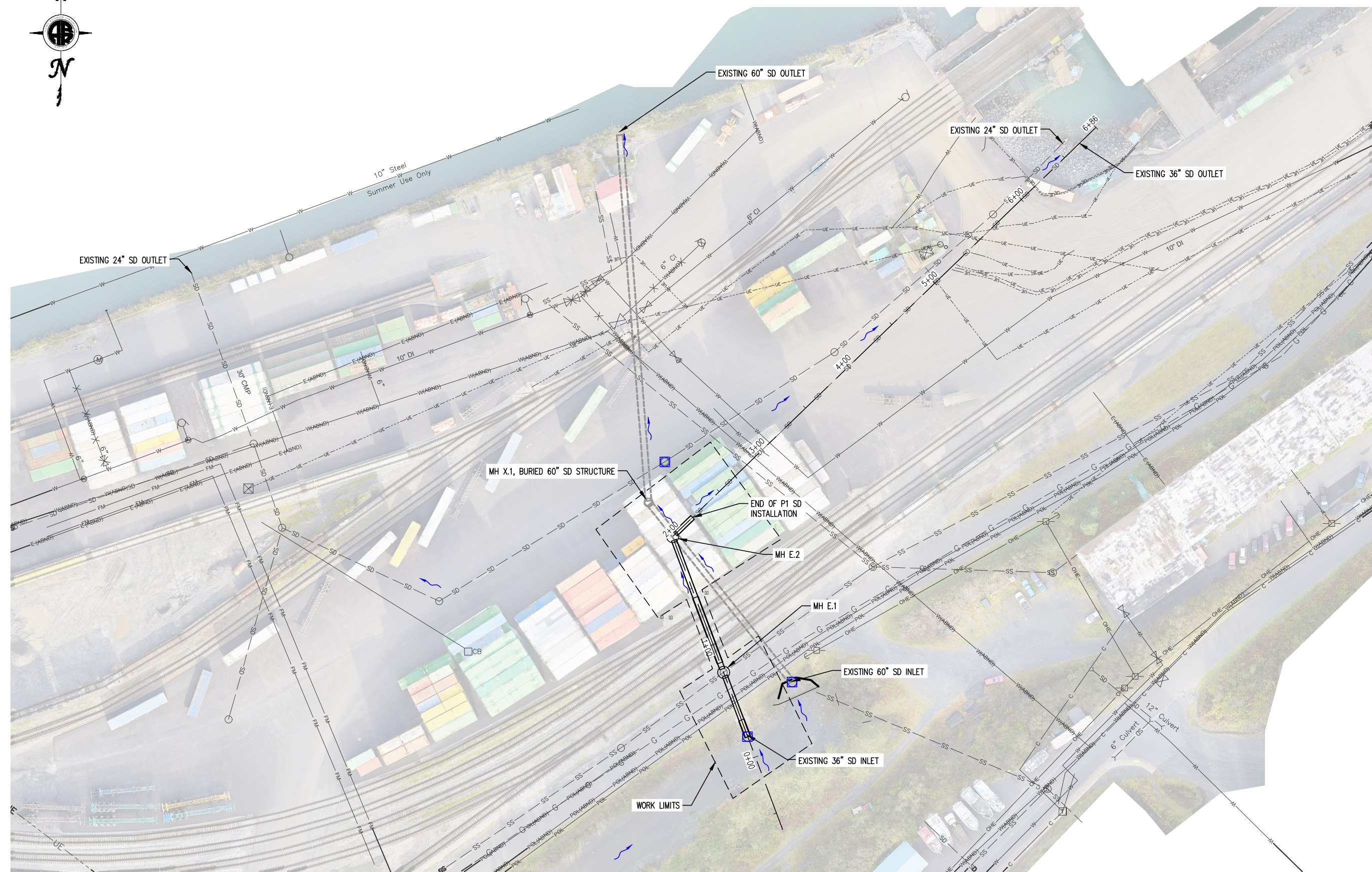
BH#03

DATE: 07/21/2025  
 ELEVATION: 20.8-FT  
 STATION: 2+44, 10' RT



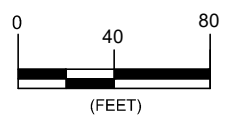
DESIGNED BY:	REH
CHECKED BY:	EKB
DRAFTED BY:	MKM
IFB PLANS NOT FOR CONSTRUCTION	
MICHAEL BAKER INTERNATIONAL 3900 G ST, SUITE 900 ANCHORAGE, AK 99503 (907) 273-1600 LICENSE # AECC103	
Michael Baker INTERNATIONAL	
A/E FIRM	
ENGINEERING DEPARTMENT P.O. BOX 107500 ANCHORAGE, ALASKA 99510-7500	
PROJECT: WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1	
SHEET TITLE: BORE HOLE LOG	
AFE NO.	XXX
YEAR	2026
SHEET	12 OF 13

DRAWING LOCATION: T:\ARRC\196569 ARRCC WHITTIER SEWER PIPE\05 WORKING\CIVIL\PRODUCTION\196569\_DEMO.DWG  
 DATE: 4/6/2026 4:54 PM  
 TIME: AS NOTED  
 SCALE: AS NOTED  
 PUBLISHED: CTB  
 ARRC-CTB\_2021.CTB



**EROSION AND SEDIMENT CONTROL PLAN**

- LEGEND:**
- INLET PROTECTION
  - FLOW ARROW



**EROSION AND SEDIMENT CONTROL PLAN NOTES:**

1. THIS ESCP IS A GENERAL PLAN FOR GUIDING THE CONTRACTOR'S SWPPP. THE CONTRACTOR IS EXPECTED TO PROVIDE ADDITIONAL DETAILS AND BMPs BASED ON THE CONTRACTOR'S ACTUAL SCHEDULE AND CONSTRUCTION METHODS. SEE SUBSECTION 641 FOR EROSION AND SEDIMENT CONTROL PLAN REQUIREMENTS, ADDITIONAL BMPs BEYOND WHAT IS SHOWN IN THIS PLAN MAY BE REQUIRED AND ARE SUBSIDIARY TO ITEM 641.0003.0000.
2. THE PROJECT RECEIVING WATERS ARE PASSAGE CANAL.

DESIGNED BY:	REH
CHECKED BY:	EKB
DRAFTED BY:	MKM

IFB PLANS NOT FOR CONSTRUCTION

MICHAEL BAKER INTERNATIONAL  
 3900 G ST, SUITE 900  
 ANCHORAGE, AK 99503  
 (907) 273-1600  
 LICENSE # AECC103

KEY MAP



A/E FIRM

ENGINEERING DEPARTMENT  
 P.O. BOX 107500  
 ANCHORAGE, ALASKA 99510-7500



PROJECT: WHITTIER YARD STORM DRAIN REPLACEMENT: PHASE 1  
 SHEET TITLE: EROSION AND SEDIMENT CONTROL PLAN

AFE NO.	XXX
YEAR	2026
SHEET	13 OF 13