

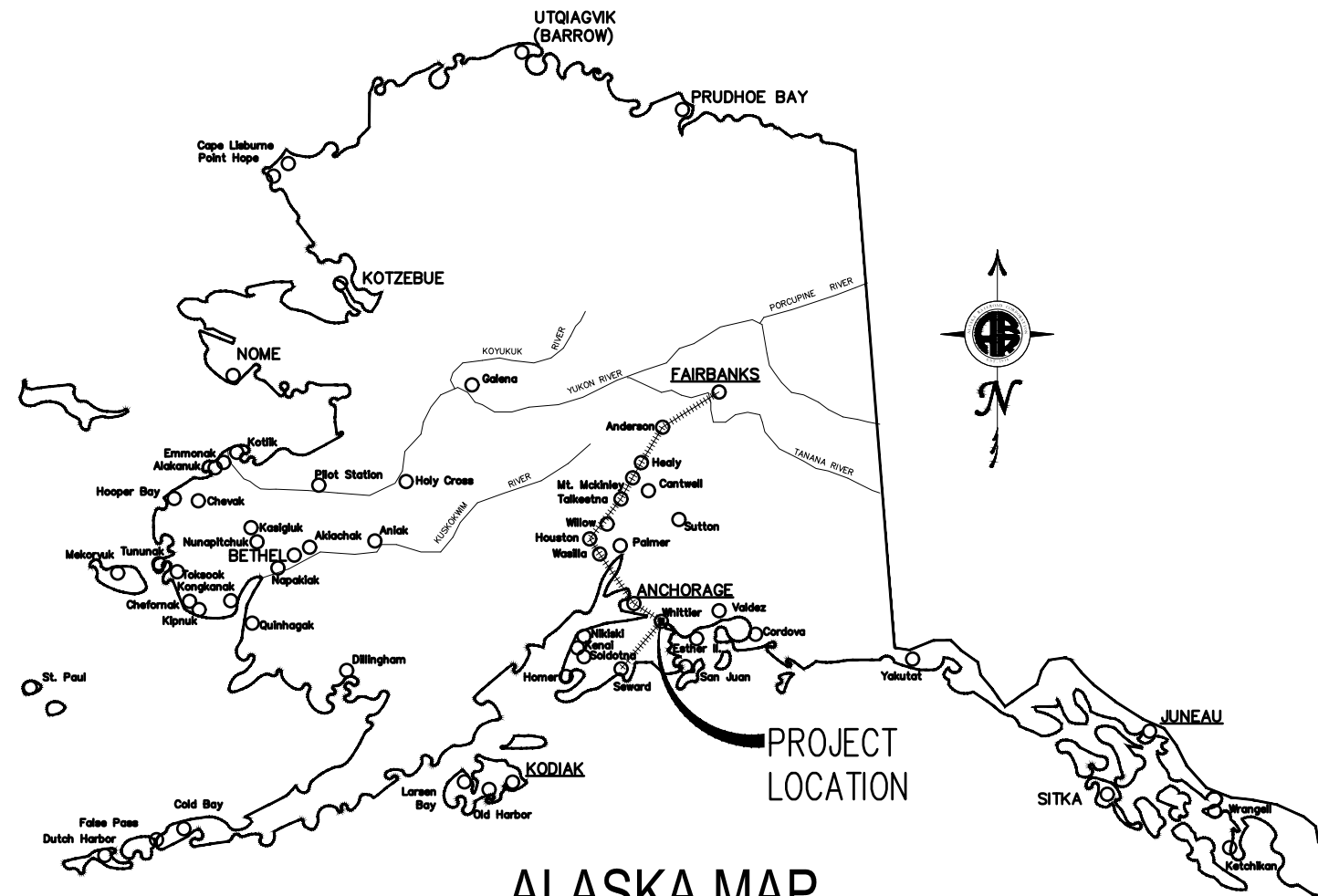


ALASKA RAILROAD CORPORATION
CAPITAL PROJECTS

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

WHITTIER YARD: LOWER 1 AND 2 TRACK IMPROVEMENTS

APRIL 2021



ALASKA MAP

NOT TO SCALE

INDEX OF DRAWINGS

SHEET	TITLE
1	COVER
2	SUMMARY TABLES
3	DEMOLITION PLAN
4	TYPICAL SECTIONS
5	PLAN AND PROFILE
6	PLAN AND PROFILE

P:\Projects\Capital Projects\2021\Whittier\Lower 1 and Lower 2 - Heavy Duty Crossing Plans\01 PRE-CONSTRUCTION\DRAWINGS\SHEETS\Whittier_Lower1-2_Cover.dwg, P:\Projects\Capital Projects\2021\Whittier\Lower 1 and Lower 2 - Heavy Duty Crossing Plans\01 PRE-CONSTRUCTION\DRAWINGS\SHEETS\Whittier_Lower1-2_Cover.dwg, P:\Projects\Capital Projects\2021\Whittier\Lower 1 and Lower 2 - Heavy Duty Crossing Plans\01 PRE-CONSTRUCTION\DRAWINGS\SHEETS\Whittier_Lower1-2_Cover.dwg, P:\Projects\Capital Projects\2021\Whittier\Lower 1 and Lower 2 - Heavy Duty Crossing Plans\01 PRE-CONSTRUCTION\DRAWINGS\SHEETS\Whittier_Lower1-2_Cover.dwg

ALASKA RAILROAD CORPORATION
 ENGINEERING SERVICES
 P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500

PROJECT : WHITTIER YARD: LOWER 1 & 2
 TRACK IMPROVEMENTS

TITLE: COVER

PROJECT NO.: #21-11-208873

DESIGNED BY: RJB SCALE : AS NOTED AFE NO.:

DRAWN BY: RJB ACAD FILE:

CHECKED BY: CDR DATE : 4/5/2021 DWG NO. 1 OF 6

APPROVED BY: BAL

REV.	DATE	BY	REVISION


F:\Projects\Copies\Projects\2021\Whittier\Lower 1 and Lower 2 - Heavy Duty Crossing Panels\01 PRE-CONSTRUCTION\DRAWINGS\SHEETS\Whittier_Lower1-2_Quantity_Estimating\Part 2 SUMMARY TABLES.Plot Style: 750c-Hot.dwg

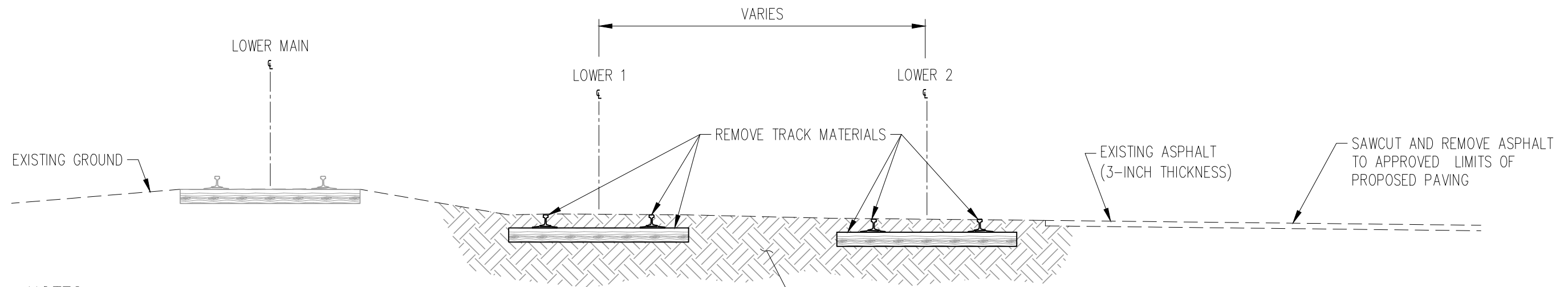
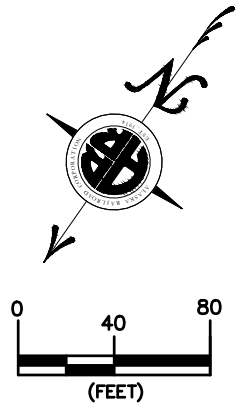
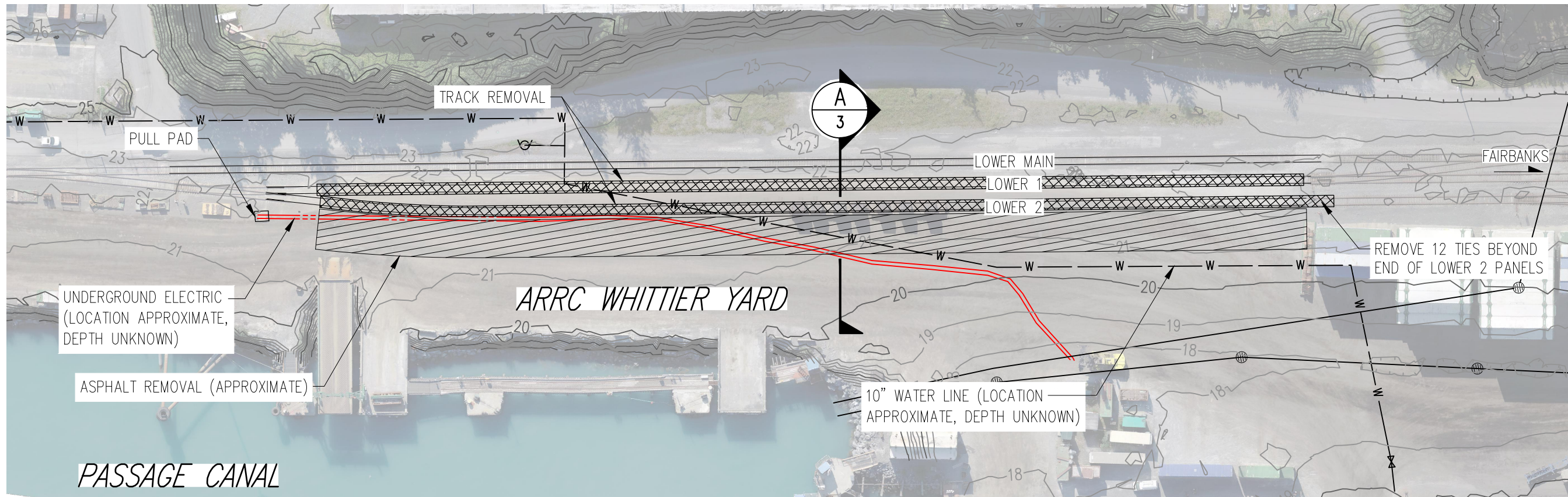
ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
640.0001.1	MOBILIZATION AND DEMOBILIZATION	L.S.	1
202.0024.1	REMOVAL OF TRACK	L.S.	1
202.0002.1	REMOVAL OF PAVEMENT	S.Y.	2510
203.0003.1	UNCLASSIFIED EXCAVATION	C.Y.	2740
203.0006.1	SELECTED MATERIAL, TYPE A	TON	3070
301.0001.1	AGGREGATE BASE COURSE, GRADING D-1	TON	1530
630.0001.1	GEOTEXTILE, SEPARATION, CLASS 3	S.Y.	3050
617.0001.1	RAILROAD CROSSINGS	L.S.	1
244.0001.1	TRACKWORK 115# RE RAIL	L.S.	1
401.0001.1	HOT MIX ASPHALT, TYPE II: CLASS A	TON	420
401.0001.2	RAIL FLANGE PAVING	L.S.	1
642.0001.1	CONSTRUCTION SURVEYING	L.S.	1
641.0001.1	EROSION SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	L.S.	1

PANEL SUMMARY		
PANEL DESCRIPTION	QUANTITY	REMARKS
6" BEVEL PANEL	1	
TANGENT BEVEL PANEL	3	
6" CURVE PANEL	19	ONE PLACED BACKWARDS, SEE SHEET 5
TANGENT PANEL	210	
TOTAL:	233	

TABLE OF ESTIMATING FACTORS		
ITEM NO.	ITEM DESCRIPTION	UNIT
203.0006.1	SELECTED MATERIAL, TYPE A	144 LB./C.F.
301.0001.1	AGGREGATE BASE COURSE, GRADING D-1	144 LB./C.F.
401.0001.1	HMA, TYPE II; CLASS A	151 LB./C.F.
401.0004.5228	ASPHALT BINDER, GRADE PG 52-28	5.3% OF TOTAL WEIGHT OF 401(1A)

REV.	DATE	BY	REVISION

 ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500			
PROJECT : WHITTIER YARD: LOWER 1 & 2 TRACK IMPROVEMENTS			
TITLE: SUMMARY TABLES			
PROJECT NO.: #21-11-208873			
DESIGNED BY: RJB DRAWN BY: RJB CHECKED BY: CDR APPROVED BY: BAL	SCALE : AS NOTED DATE : 4/5/2021	A/E NO.: ACAD FILE: DWG NO. 2 OF 6	



NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR UTILITY LOCATES PRIOR TO COMMENCING WORK.
2. CONTRACTOR MUST ESTABLISH PAVEMENT REMOVAL LIMITS WITH THE ENGINEER BEFORE BEGINNING PAVEMENT REMOVAL.

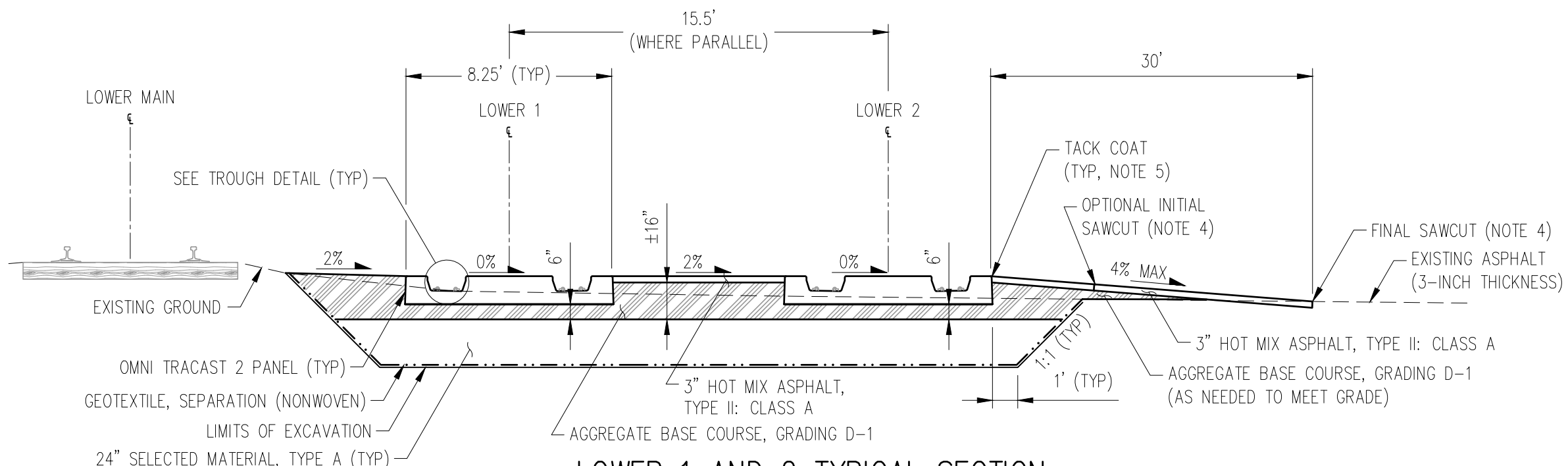
SECTION A-A
SCALE: NTS

REV.	DATE	BY	REVISION

ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500		PROJECT :	
		WHITTIER YARD: LOWER 1 & 2 TRACK IMPROVEMENTS	
TITLE:		DEMOLITION PLAN	
PROJECT NO.:		#21-11-208873	
DESIGNED BY:	RJB	SCALE :	AS NOTED
DRAWN BY:	RJB	DATE :	4/5/2021
CHECKED BY:	CDR	AFE NO.:	ACAD FILE:
APPROVED BY:	BAL	DWG NO.	3 OF 6

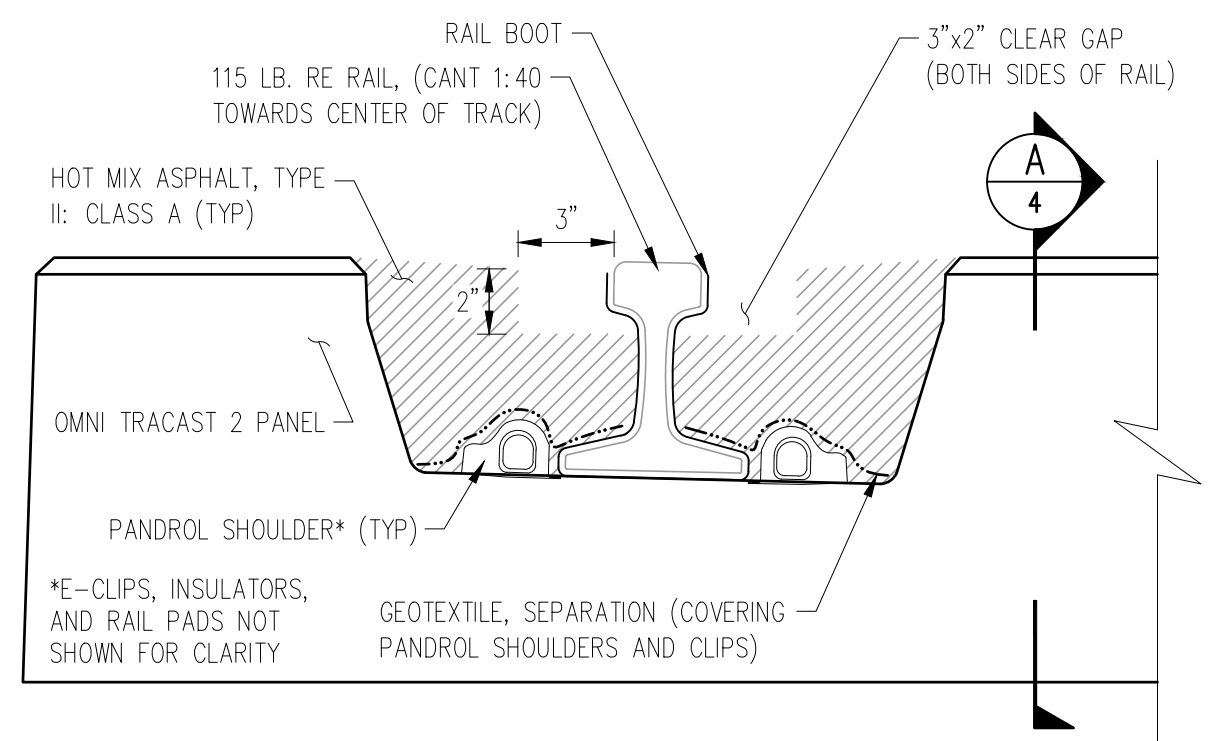
NOTES:

1. FINISHED SURFACE OF SUBGRADE BELOW PANELS MUST NOT DEVIATE MORE THAN 3/16" ALONG A 16' STRAIGHT EDGE.
2. APPLY SIKAFLEX - 1A URETHANE CAULK (ALUM GREY), OR APPROVED EQUAL, IN THE GAPS BETWEEN ADJACENT PANELS TO A MINIMUM DEPTH OF 1-INCH.
3. COMPACT SELECTED MATERIAL, TYPE A, AND AGGREGATE BASE COURSE, GRADING D-1, TO 98% OF MAXIMUM DRY DENSITY.
4. INITIAL SAWCUT NEAR THE EXCAVATION LIMITS MAY BE MADE TO COMPLETE PANEL INSTALLATION. FINAL SAWCUT AT PAVEMENT REMOVAL LIMITS SHALL BE MADE IMMEDIATELY BEFORE FINAL PAVING. DO NOT ALLOW EQUIPMENT TO DRIVE OVER FINAL SAWCUT. APPLY TACK COAT TO ALL JOINT FACES.
5. APPLY TACK COAT TO ALL FACES OF THE OMNI PANELS THAT ARE IN CONTACT WITH ASPHALT.
6. OMNI PANEL INSTALLATION AND LIFTING INSTRUCTIONS ARE INCLUDED IN THE ITB PACKAGE.



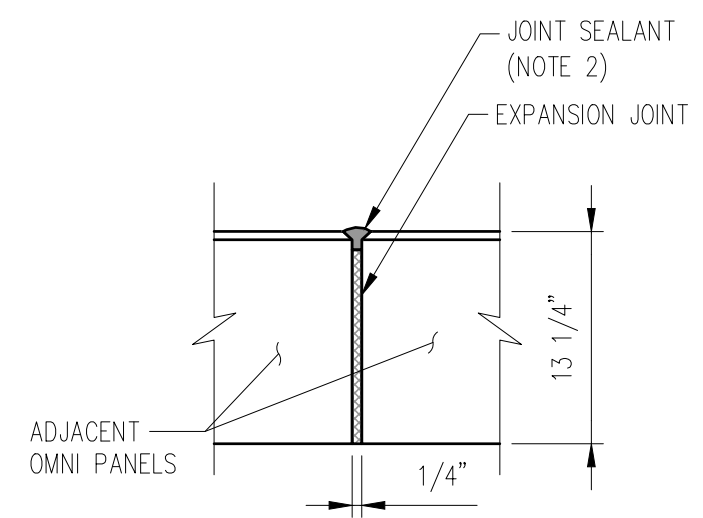
LOWER 1 AND 2 TYPICAL SECTION

SCALE: NO SCALE



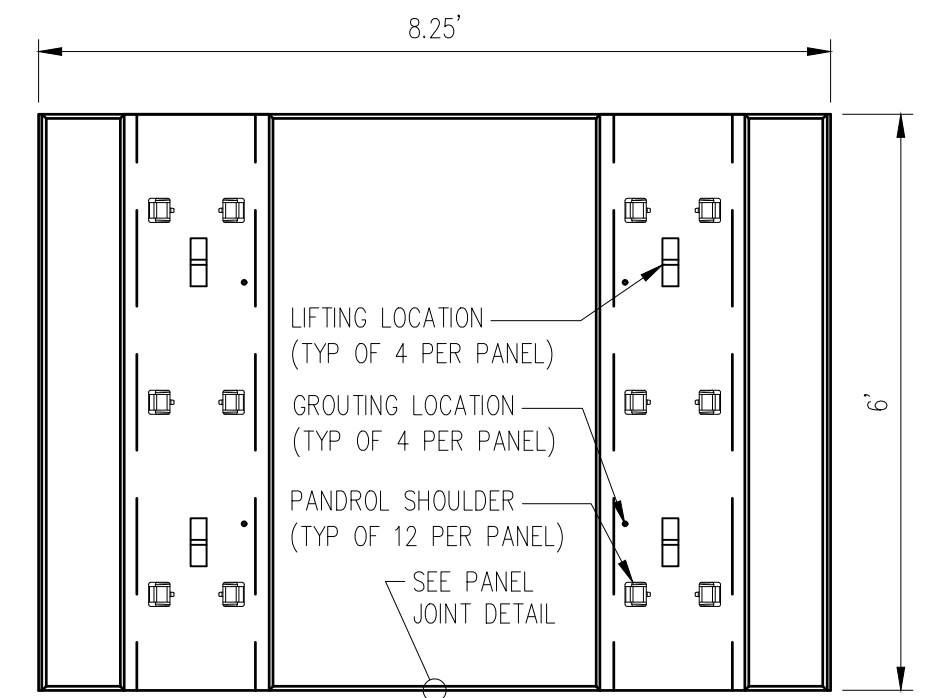
TROUGH DETAIL

SCALE: NTS



**SECTION A-A
PANEL JOINT DETAIL**

SCALE: NTS



PANEL PLAN DETAIL

SCALE: NTS

ALASKA RAILROAD CORPORATION
ENGINEERING SERVICES
P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500

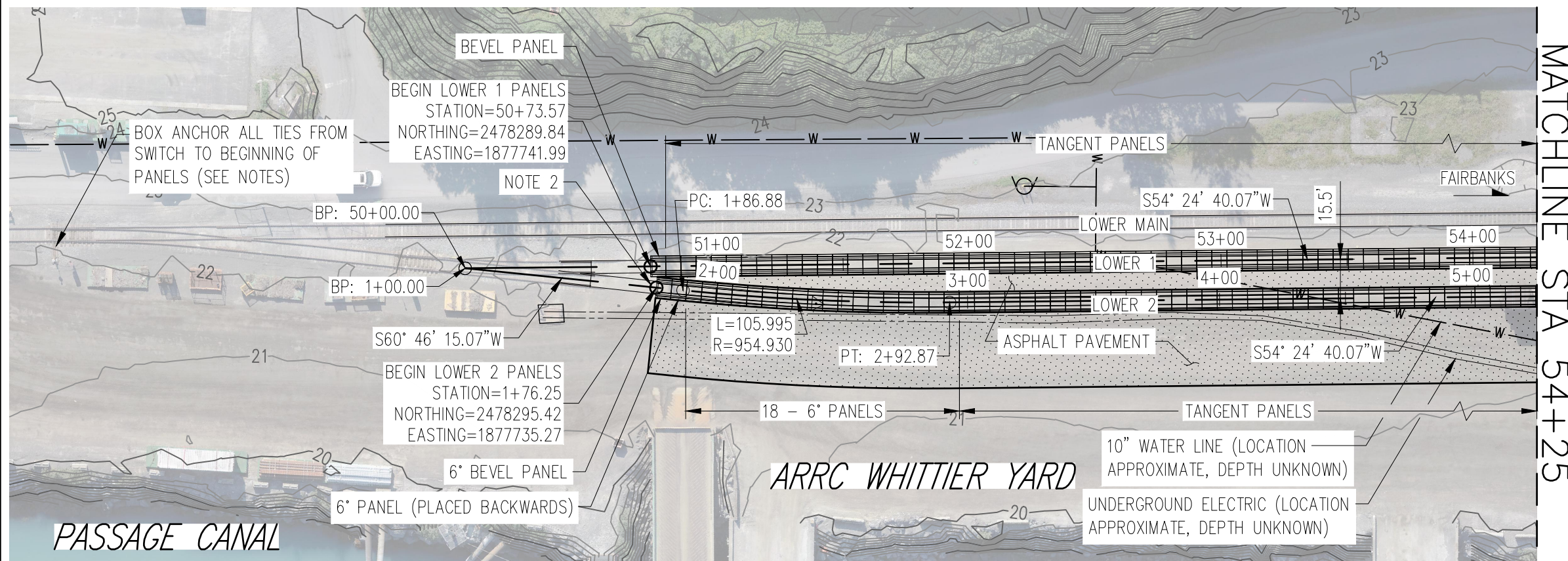
PROJECT : WHITTIER YARD: LOWER 1 & 2 TRACK IMPROVEMENTS

TITLE: TYPICAL SECTIONS
PROJECT NO.: #21-11-208873

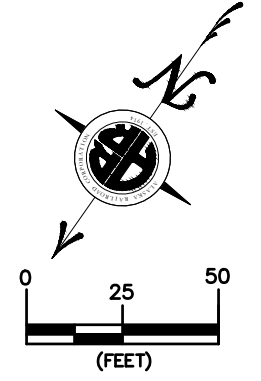
DESIGNED BY: RJB	SCALE : AS NOTED	AFE NO.:
DRAWN BY: RJB	DATE : 4/5/2021	ACAD FILE:
CHECKED BY: CDR		DWG NO. 4 OF 6
APPROVED BY: BAL		

REV.	DATE	BY	REVISION

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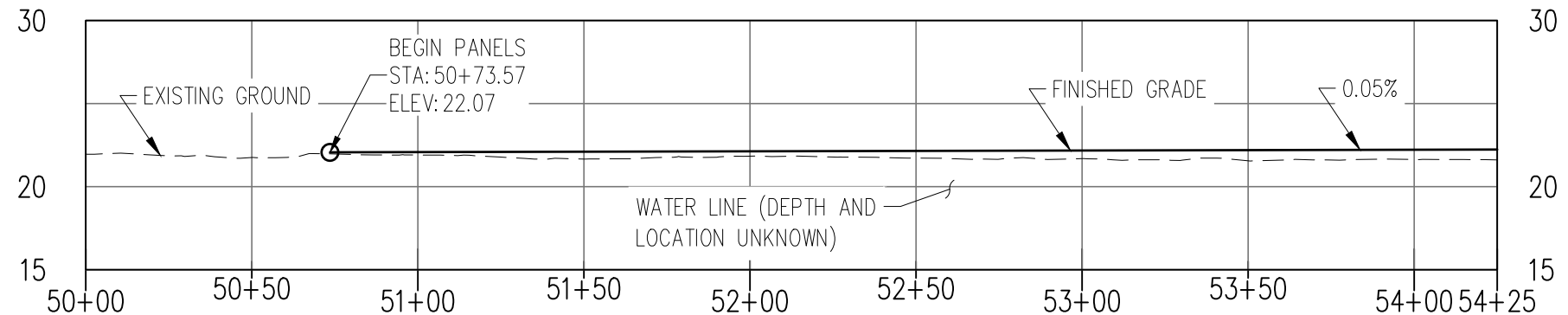


MATCHLINE STA 54+25



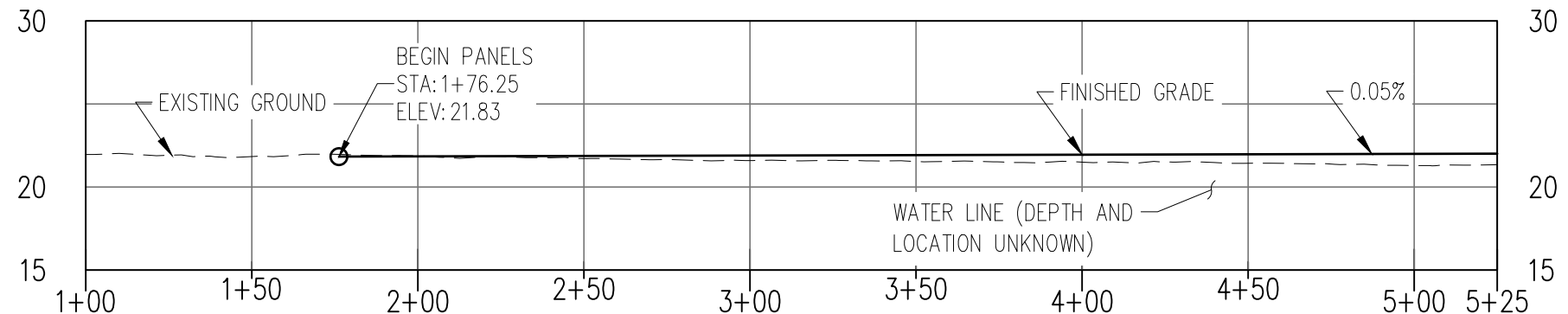
NOTES:

1. BOX ANCHOR ALL TIES ON LOWER 1 AND LOWER 2 FROM THE SWITCH POINT ON LOWER MAIN TO THE BEGINNING OF THE PANELS. TIES WITH ADEQUATE EXISTING ANCHORS MAY BE NEGLECTED.
2. INSTALL ONE NEW 7"x9"x8.5' HARDWOOD CROSS TIE WITH PANDROL PLATES AND E-CLIPS BETWEEN THE EXISTING 17' SWITCH TIES AND THE BEGINNING OF THE LOWER 2 PANELS. ANGLE AS NECESSARY TO FIT.
3. CONTRACTOR IS RESPONSIBLE FOR UTILITY LOCATES PRIOR TO COMMENCING WORK.



LOWER 1 PROFILE

SCALE: H: 1" = 50' V: 1" = 10'



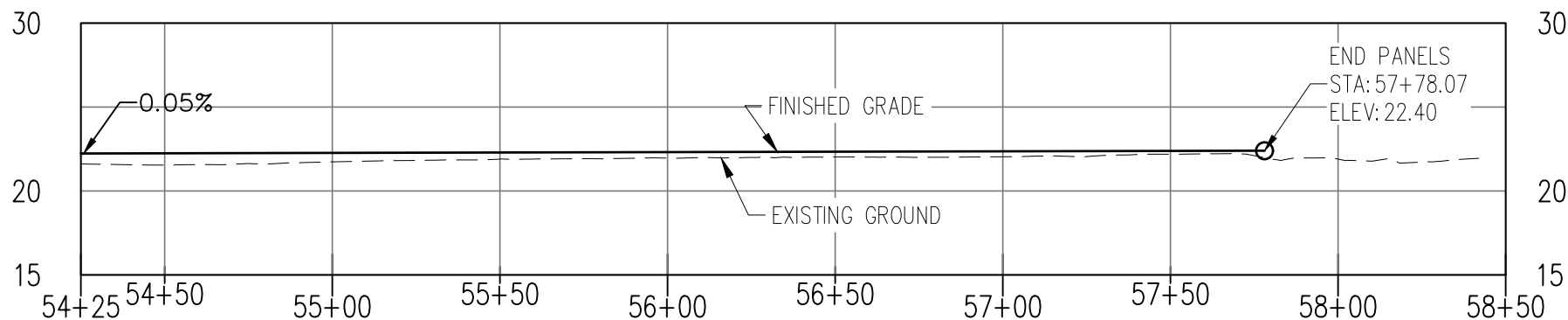
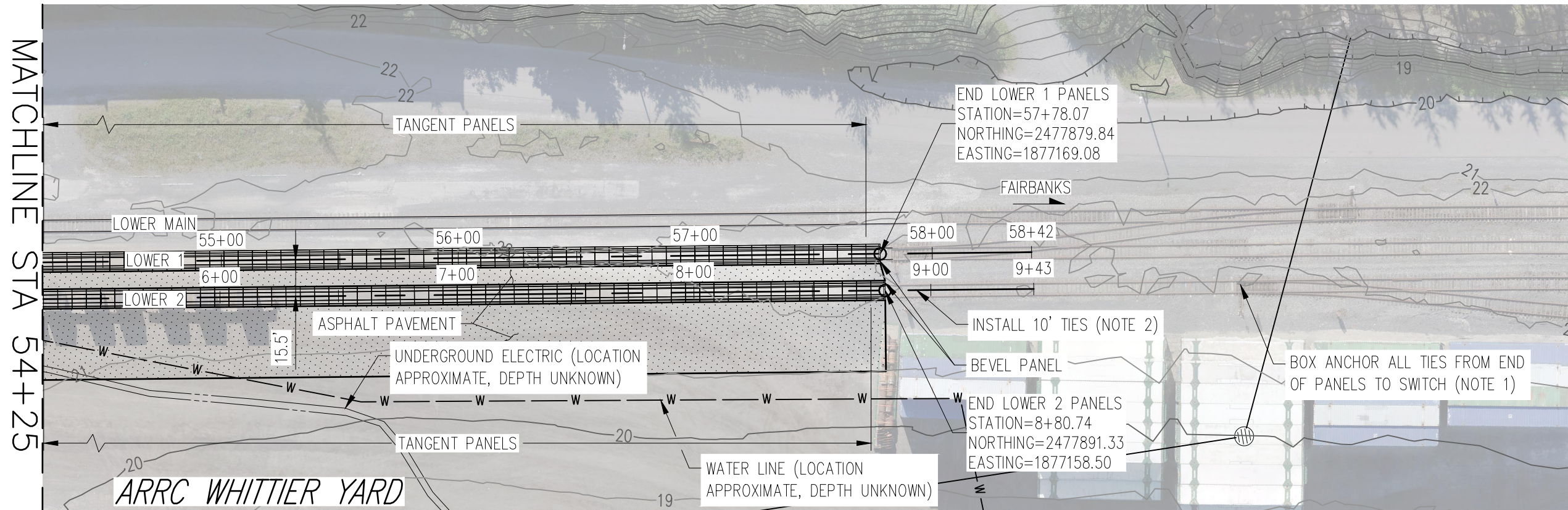
LOWER 2 PROFILE

SCALE: H: 1" = 50' V: 1" = 10'

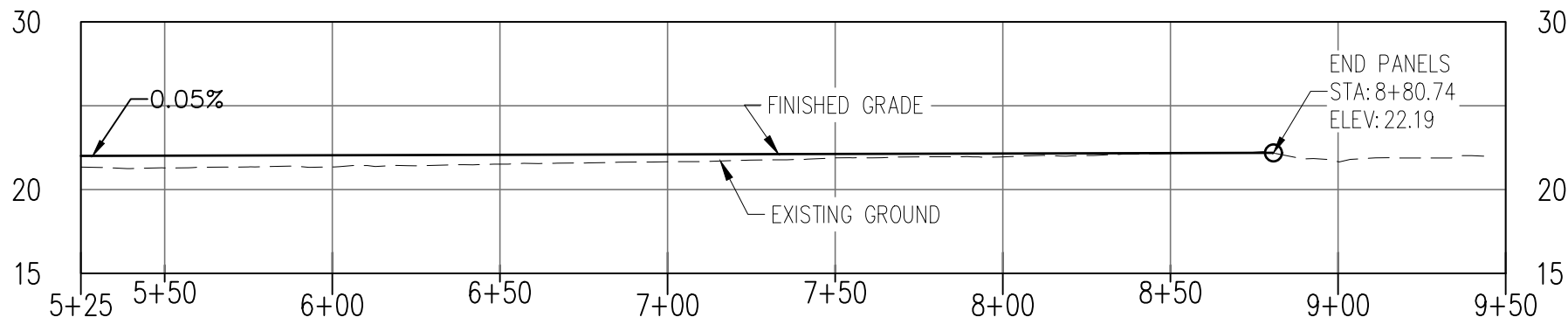
REV.	DATE	BY	REVISION

ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500			
PROJECT : WHITTIER YARD: LOWER 1 & 2 TRACK IMPROVEMENTS			
TITLE: PLAN AND PROFILE			
PROJECT NO.: #21-11-208873			
DESIGNED BY: RJB	SCALE : AS NOTED	A/E NO.:	
DRAWN BY: RJB	DATE : 4/5/2021	ACAD FILE:	
CHECKED BY: CDR		DWG NO.	
APPROVED BY: BAL		5 OF 6	

P:\Projects\Capital Projects\2021\Whittier\Lower 1 and Lower 2 - Heavy Duty Crossing Panels\01 PRE-CONSTRUCTION\DRAWINGS\Sheets\Plan_and_Profile\01 Plan and Profile - Lower 1 and Lower 2 - Heavy Duty Crossing Panels.dwg (Print: 5 PLAN AND PROFILE) Plot Style: 750c-hd.ctb



LOWER 1 PROFILE
SCALE: H: 1" = 50' V: 1" = 10'



LOWER 2 PROFILE
SCALE: H: 1" = 50' V: 1" = 10'

NOTES:

1. BOX ANCHOR ALL TIES ON LOWER 1 AND LOWER 2 FROM THE END OF THE PANELS TO THE SWITCH POINT ON LOWER 2. TIES WITH ADEQUATE EXISTING ANCHORS MAY BE NEGLECTED.
2. INSTALL NEW 7"x9"x10' HARDWOOD CROSS TIES WITH PANDROL PLATES AND E-CLIPS ON 19-1/2" CENTER-TO-CENTER FOR 12 TIES BEYOND END OF PANELS ON LOWER 2.
3. CONTRACTOR IS RESPONSIBLE FOR UTILITY LOCATES PRIOR TO COMMENCING WORK.

REV.	DATE	BY	REVISION

ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500			
PROJECT : WHITTIER YARD: LOWER 1 & 2 TRACK IMPROVEMENTS			
TITLE: PLAN AND PROFILE			
PROJECT NO.: #21-11-208873			
DESIGNED BY: RJB	SCALE : AS NOTED	AFE NO.:	
DRAWN BY: RJB	DATE : 4/5/2021	ACAD FILE:	
CHECKED BY: CDR		DWG NO.	
APPROVED BY: BAL		6 OF 6	

P:\Projects\Capital Projects\2021\Whittier\Lower 1 and Lower 2 - Heavy Duty Crossing Panels\01 PRE-CONSTRUCTION\DRAWINGS\SHEETS\Plan_and_Profile.dwg (Print: 6 PLAN AND PROFILE Plot Style: 750c-Hal.ctb)