

# PORT OF TACOMA

## BANANA YARD RAIL TURNOUT REPLACEMENT

PROJECT NO. 101615.01  
 CONTRACT NO. 071940

### PORT COMMISSIONERS:

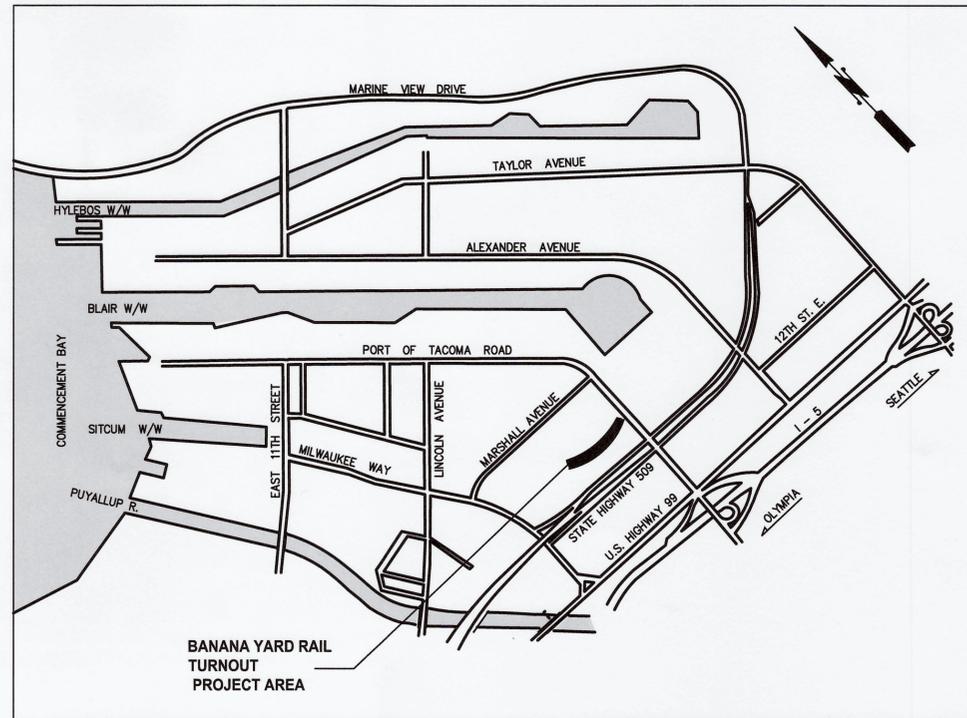
DON MEYER  
 KRISTIN ANG  
 RICHARD P. MARZANO  
 DEANNA KELLER  
 JOHN McCARTHY

### PORT STAFF:

ERIC JOHNSON  
 EXECUTIVE DIRECTOR

THAIS HOWARD, PE  
 Director of Engineering

NORMAN GILBERT, PE  
 Project Manager



SHEET INDEX	
SHEET NUMBER	SHEET TITLE
1	G1 COVER SHEET
2	G2 SITE PLAN AND EXISTING CONDITIONS
3	C1 SITE PLAN
4	C2 DEMOLITION AND TESC NOTES AND DETAILS
5	C3 SITE DETAILS
6	C4 RAIL AND TRACKBED DETAILS
7	C5 RAIL AND TIE DETAILS
8	C6 NO. 9 TURNOUT DETAILS
9	C7 TURNOUTS 25, 26 CROSSOVER
10	C8 TURNOUTS 27, 28, 29 CROSSOVER
11	C9 PHASING PLAN



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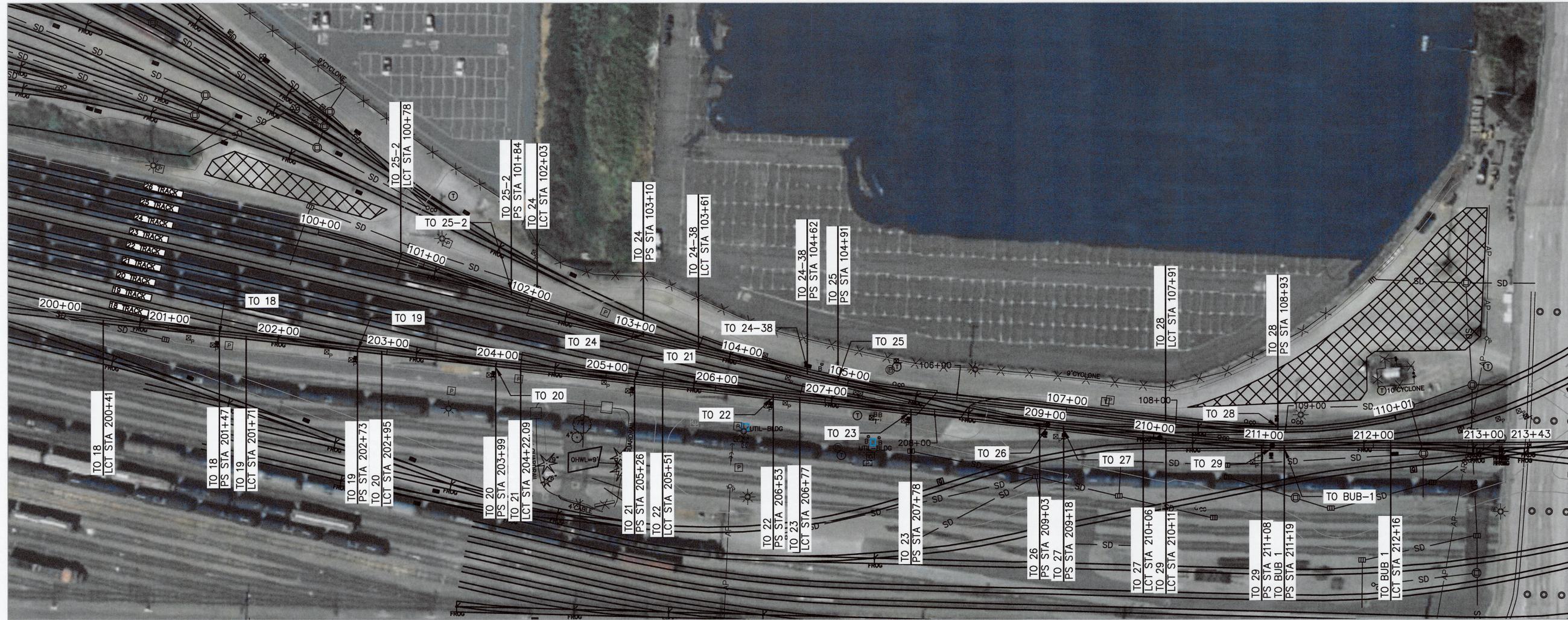


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**BANANA YARD RAIL TURNOUT REPLACEMENT**  
 COVER SHEET  
 TOWNSHIP: 21N RANGE: 3E SECTION: 36  
 DAT-HRZ: W83-SF VERT: PORT OF TACOMA BM#  
 PARCEL: 0321354035 DRAWING SCALE: AS SHOWN

6683  
**G1**  
 1 OF 11  
 CONT/CONS: 071940  
 M. ID: 101615.01  
 PHASE: BID SET

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EXISTING CONDITIONS SITE PLAN  
SCALE: 1:50

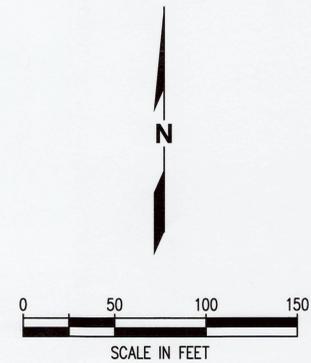
**LEGEND**

- EXISTING TRACK
- STORM LINE
- OVERHEAD POWER LINE
- CONTRACTOR STAGING AND LAYDOWN AREA
- POINT OF SWITCH
- FROG
- STORM CATCH BASIN
- STORM MANHOLE
- TELECOMMUNICATIONS SYSTEM MANHOLE
- LIGHT POLE

TURNOUT LENGTHS		
TURNOUT NO.	PS TO FROG	PS TO LCT
18	72'-6"	106'-5"
19	72'-5"	101'-9"
20	72'-5"	104'-6"
21	72'-5"	103'-9"
22	72'-6"	101'-1"
23	72'-4"	101'-8"
26	72'-5"	UNKNOWN - UNDER PAVEMENT
27	72'-6"	88'-3"
29	72'-3"	96'-6"
BUB1	72'-3"	96'-10"
28	72'-6"	102'-00"
25	72'-5"	UNKNOWN - UNDER PAVEMENT
24-38	72'-4"	100'-6"
24	72'-7"	106'-00"
25-2	72'-10"	106'-00"

**NOTES**

1. AERIAL IMAGERY IS FOR CONTEXT ONLY AND DOES NOT EXACTLY RESEMBLE EXISTING ONSITE INFORMATION.
2. SURVEY LINework SHOWN IS FROM 2014. TRACKWORK, SURFACE FEATURES, AND UTILITIES SHOWN MAY DIFFER FROM EXISTING CONDITIONS.



**BANANA YARD RAIL TURNOUT REPLACEMENT**

APPROVED: *[Signature]* 4/29/2022

CHECKED BY: DATE

SEK 2/6/2023

DIRECTOR: *[Signature]* DATE

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6693

**G2** OF 11

CONTR/CONS: 071940

M. ID: 101615.01

PHASE: BID SET

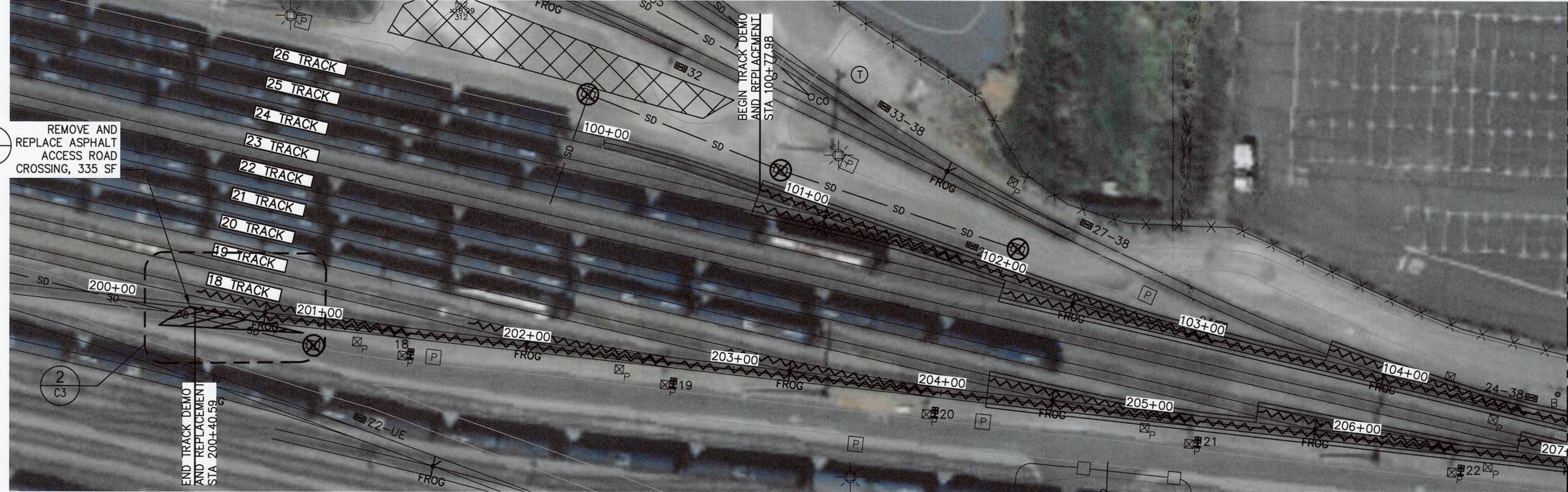
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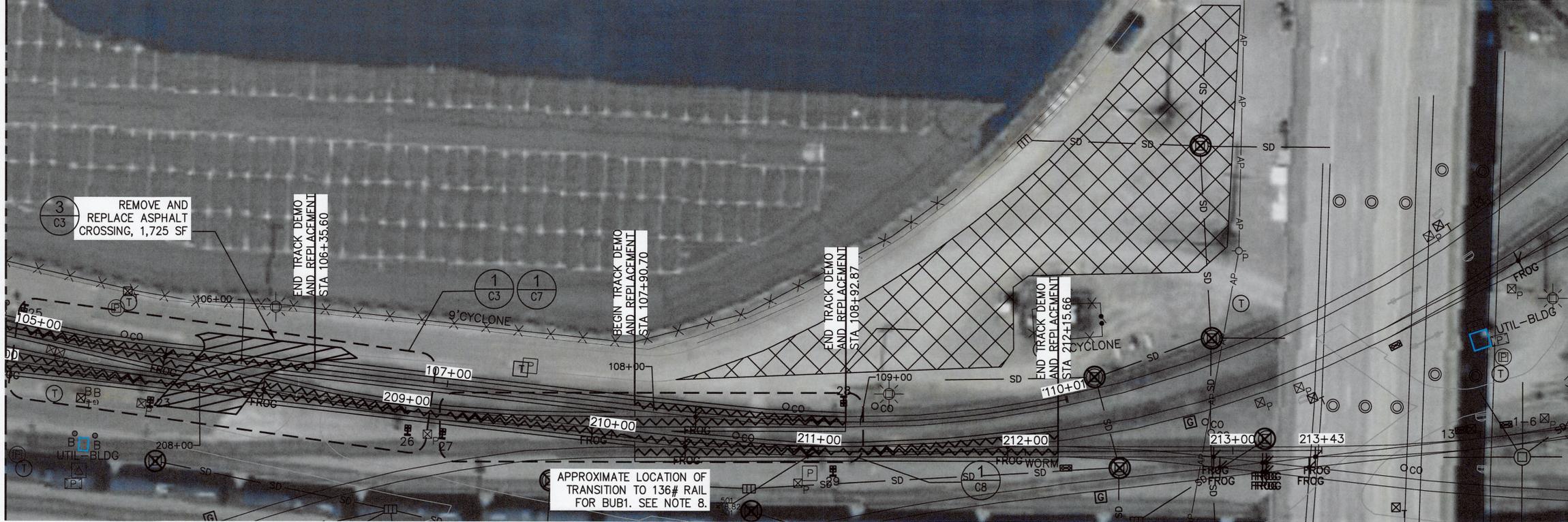
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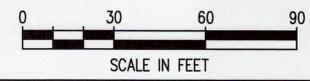


MATCH LINE SEE BELOW



**SITE PLAN**

SCALE: 1:30



**LEGEND**

- EXISTING TRACK
- PROPOSED RAIL DEMOLITION AND REPLACEMENT
- CONTRACTOR STAGING AND LAYDOWN AREA
- ASPHALT DEMOLITION AND REPLACEMENT
- INLET PROTECTION

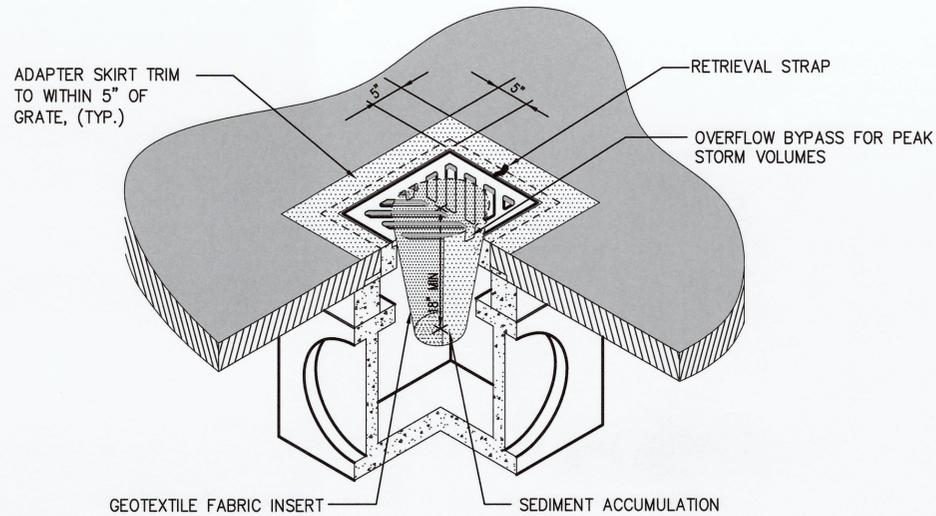
**NOTES**

1. CONTRACTOR SHALL PERFORM UTILITY LOCATES AND FIELD VERIFY ALL EXISTING BELOW GRADE UTILITIES PRIOR TO BEGINNING DEMOLITION WORK.
2. CONTRACTOR SHALL REMOVE AND REPLACE TRACK AND TURNOUTS TO THE EXTENT SHOWN ON THE PLANS.
3. CONTRACTOR SHALL FIELD VERIFY ALL LIMITS OF TRACK DEMOLITION AND TURNOUT DIMENSIONS PRIOR TO PROCUREMENT OF TRACK MATERIAL. CONTRACTOR SHALL ORDER TURNOUTS TO THE SPECIFIC LENGTH REQUIRED AND INSTALL ADDITIONAL STANDARD TRACK AS NECESSARY FOR THE FULL TRACK REPLACEMENT WITHIN THE LIMITS SHOWN.
4. CONTRACTOR SHALL PROCURE, CUT, AND DRILL STOCK RAIL IN LENGTHS TO ALLOW FOR RAIL LENGTHS BETWEEN END OF TURNOUTS STOCK RAIL AND BEGINNING OF THE PROCEEDING TURNOUT RAIL OR EXISTING RAIL TO NOT BE LESS THAN 12 FEET.
5. REMOVE EXISTING TRACK AND BALLAST AS REQUIRED TO CONSTRUCT NEW TRACKBED, TRACK, AND TURNOUTS. NEW TRACKBED SHALL INCLUDE NEW BALLAST AND WALKWAY ROCK AS SHOWN ON DETAIL 1, SHEET C4.
6. IF SOFT AREAS ARE OBSERVED IN THE SUBGRADE BELOW MINIMUM REQUIRED BALLAST REMOVAL, OVER-EXCAVATE SOFT MATERIAL AND REPLACE WITH COMPACTED SUBBALLAST MATERIAL AT THE DIRECTION OF THE ENGINEER.
7. REMOVED BALLAST MATERIAL SHALL BE DISPOSED OF AT THE CONTRACTORS EXPENSE.
8. ALL TRACK IS 115RE EXCEPT TURNOUT BUB1 WHICH SHALL BE 136RE. TRANSITION FROM 115RE TO 136RE SHALL BE BETWEEN TURNOUT 29 AND BUB1 POINT OF SWITCHES.

<b>6693</b>	<b>BANANA YARD RAIL TURNOUT REPLACEMENT</b>				APPROVED:	TJH	1/29/2024
	<b>C1</b>				DIRECTOR	1/29/2024	DATE
3 OF 11		SITE PLAN					
CONT/CONS:	071940	TOWNSHIP:	21N	RANGE:	3E	SECTION:	36
M. ID:	101615.01	DAT-HRZ:	W83-SF	VERT:	PORT OF TACOMA BM#		
PHASE:	BID SET	PARCEL:	0321354035	DRAWING SCALE:	AS SHOWN		
				TACOMA WA 98401-1837			
				PRINTED BY: thebig Jan 29, 2024			
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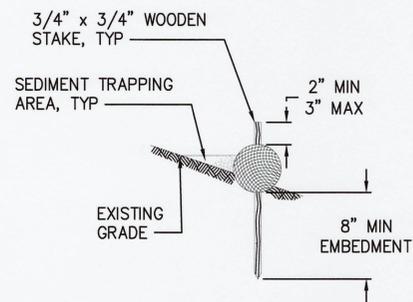
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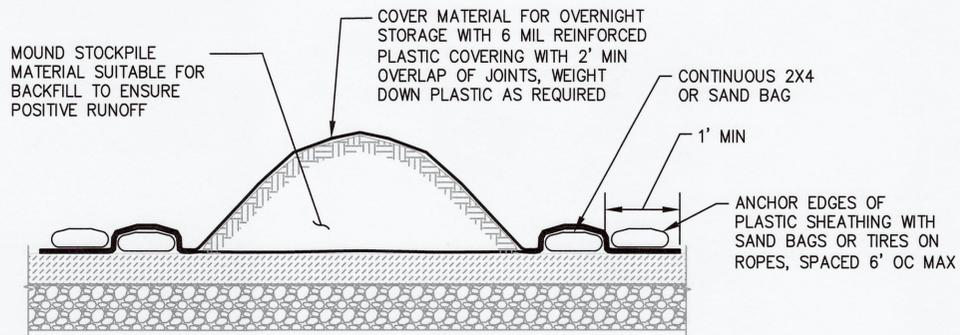
**NOTES:**

1. INSERT SHALL BE INSTALLED IN ALL LOCATIONS SHOWN ON THE PLANS.
2. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN IT IS 1/3 FULL.
3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING INTO APPROPRIATE DISPOSAL LOCATION, AND REINSERTING IT INTO THE CATCH BASIN.
4. PROVIDE INLET PROTECTION ON ALL CATCH BASINS WITHIN 500' DOWNSTREAM OF DISTURBANCE.

**1 INLET PROTECTION DETAIL**  
SCALE: NTS



**2 STRAW WATTLE DETAIL**  
SCALE: NTS



**NOTES:**

1. RIPS AND TEARS IN THE PLASTIC SHEETING SHALL BE REPAIRED IN A TIMELY MANNER.
2. STOCKPILE MATERIAL SUITABLE FOR BACKFILL SHALL BE STOCKPILED AT NO MORE THAN 1 TO 1 SLOPE AND THE TOE OF THE STOCKPILE SHALL BE NO CLOSER THAN 2' FROM THE EDGE OF EXCAVATION. STOCKPILES HEIGHT SHALL NOT EXCEED 10'.

**3 TEMPORARY STOCKPILE DETAIL**  
SCALE: NTS

**EROSION & SEDIMENT CONTROL NOTES:**

1. THE IMPLEMENTATION OF THESE EROSION AND SEDIMENT CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
2. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM OR ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
3. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
4. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
5. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.
6. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
7. CONTRACTOR SHALL IMPLEMENT BMP'S AS NECESSARY TO ENSURE CONSTRUCTION ROUTE REMAINS FREE OF DIRT AND DEBRIS.
8. CONTRACTOR SHALL PROVIDE A 24-HOUR CONTACT PERSON (FILL-IN INFORMATION BELOW):

NAME: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 EMAIL: \_\_\_\_\_

**DEMOLITION NOTES:**

1. CONTRACTOR SHALL DEMOLISH TRACK AS SHOWN ON THE PLANS.
2. CONTRACTOR SHALL REMOVE AND REPLACE BALLAST 12 INCHES BELOW THE BASE OF TIES.
3. DEMOLISHED MATERIALS NOT NOTED FOR REUSE SHALL BE DISPOSED OF AT CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL SALVAGE AND PROVIDE EXISTING SWITCH STANDS FOR TURNOUTS 21, 22, 25, 26, 27, AND BUB1 TO PORT.

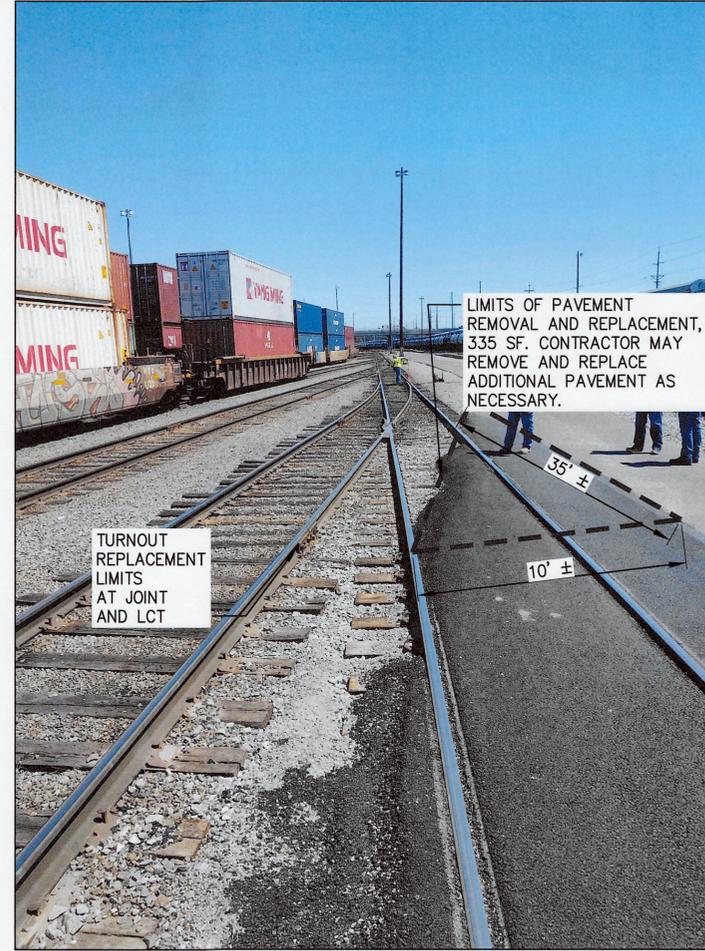
6683	C2 OF 11	BANANA YARD RAIL TURNOUT REPLACEMENT		DEMOLITION & TESC NOTES AND DETAILS		APPROVED: <i>John Howard Riley</i>		T.J.H. 1/29/2024		 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 P.O. BOX 1807 TACOMA, WA 98401 (206)885-0841
		CONTR/CONS: 071940	TOWNSHIP: 21N	RANGE: 3E	SECTION: 36	DIRECTOR ENG. DATE: 1/29/2024	CHECKED BY: DATE: 1/29/2024		BY: _____ REVISION: _____ DATE: _____	
M. ID: 101615.01	DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM#	PARCEL: 0321354035	SECTION: 36	PRINTED BY: thebig Jan 29, 2024	PROJECT: 10092300089	PROJECT: 10092300089	PROJECT: 10092300089	PROJECT: 10092300089	
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LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT, 1,725 SF

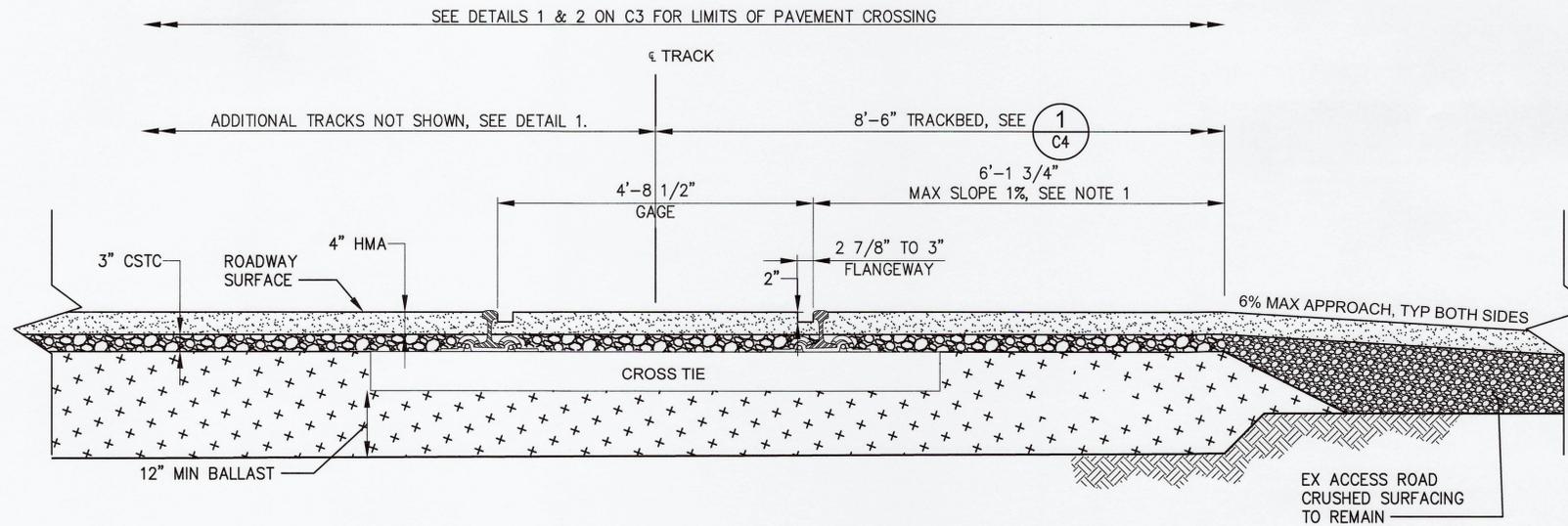
**1**  
C1 PAVEMENT CROSSING PLAN  
SCALE: NTS



TURNOUT REPLACEMENT LIMITS AT JOINT AND LCT

LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT, 335 SF. CONTRACTOR MAY REMOVE AND REPLACE ADDITIONAL PAVEMENT AS NECESSARY.

**2**  
C1 PAVEMENT CROSSING PLAN  
SCALE: NTS



**3**  
C3 PAVEMENT CROSSING DETAIL  
SCALE: NTS

**NOTES**

1. ACCESS ROAD SURFACE SHALL NOT BE MORE THAN 3/4" HIGHER OR LOWER THAN TOP OF THE NEAR RAIL 8'-6" FROM TRACK CENTERLINE.



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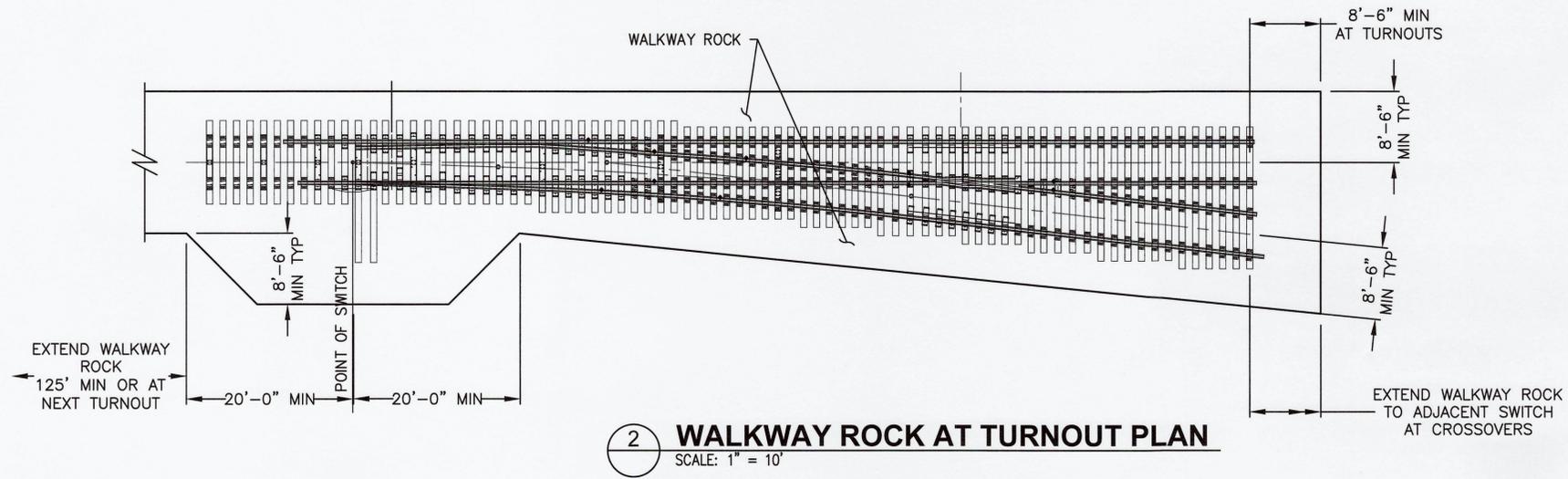
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**BANANA YARD RAIL TURNOUT REPLACEMENT**

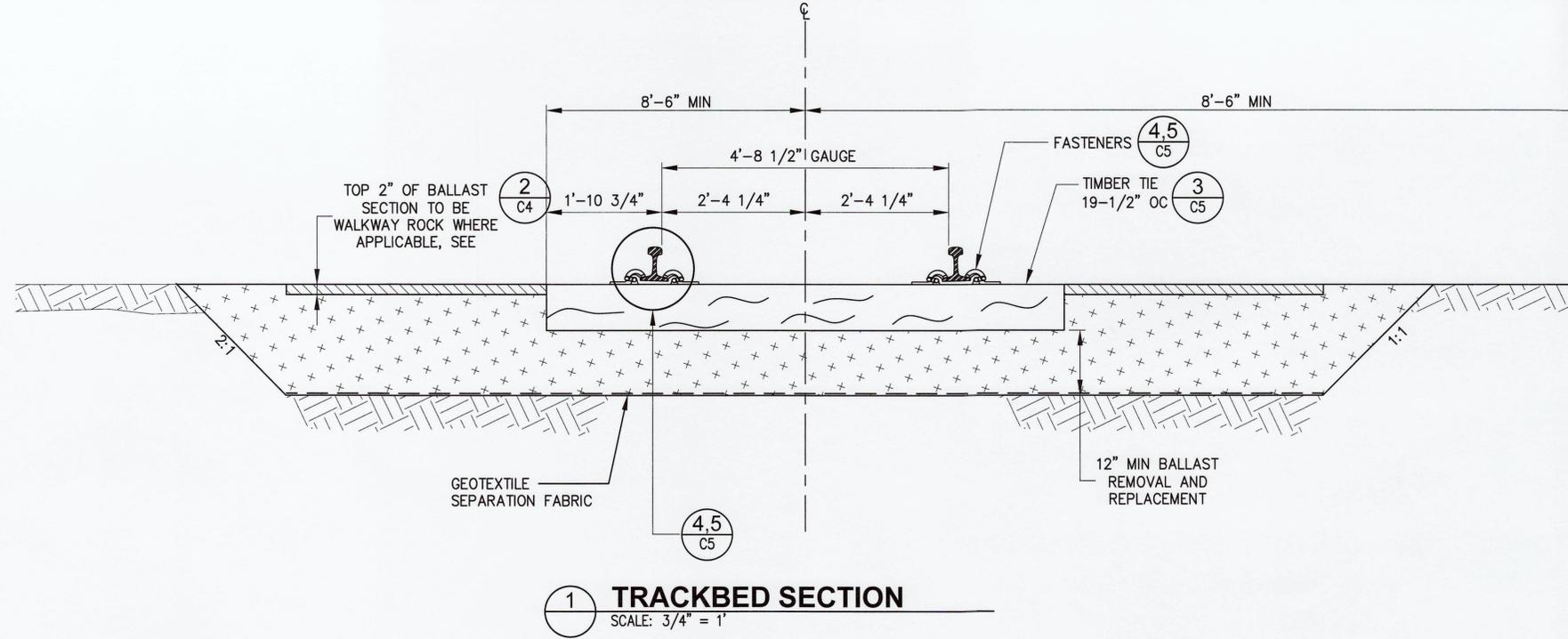
SITE DETAILS

TOWNSHIP: 21N RANGE: 3E SECTION: 36  
M. ID: 101615.01 DAT-HRZ: W83-SF PORT OF TACOMA BM#  
PARCEL: 0321354035 DRAWING SCALE: AS SHOWN

6693  
**C3**  
OF 11  
5  
CON/CONS: 071940  
M. ID: 101615.01  
PHASE: BID SET



**2 WALKWAY ROCK AT TURNOUT PLAN**  
SCALE: 1" = 10'



**1 TRACKBED SECTION**  
SCALE: 3/4" = 1"

6693

**C4**  
OF 11

CONTR/CONS: 071940  
M. ID: 101615.01  
PHASE: BID SET

**BANANA YARD RAIL TURNOUT REPLACEMENT**

RAIL AND TRACKBED DETAILS

TOWNSHIP: 21N RANGE: 3E SECTION: 36  
DAT-HRZ: W83-SF VERT: PORT OF TACOMA BM#  
PARCEL: 0321354035 DRAWING SCALE: AS SHOWN

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*John Handberg*  
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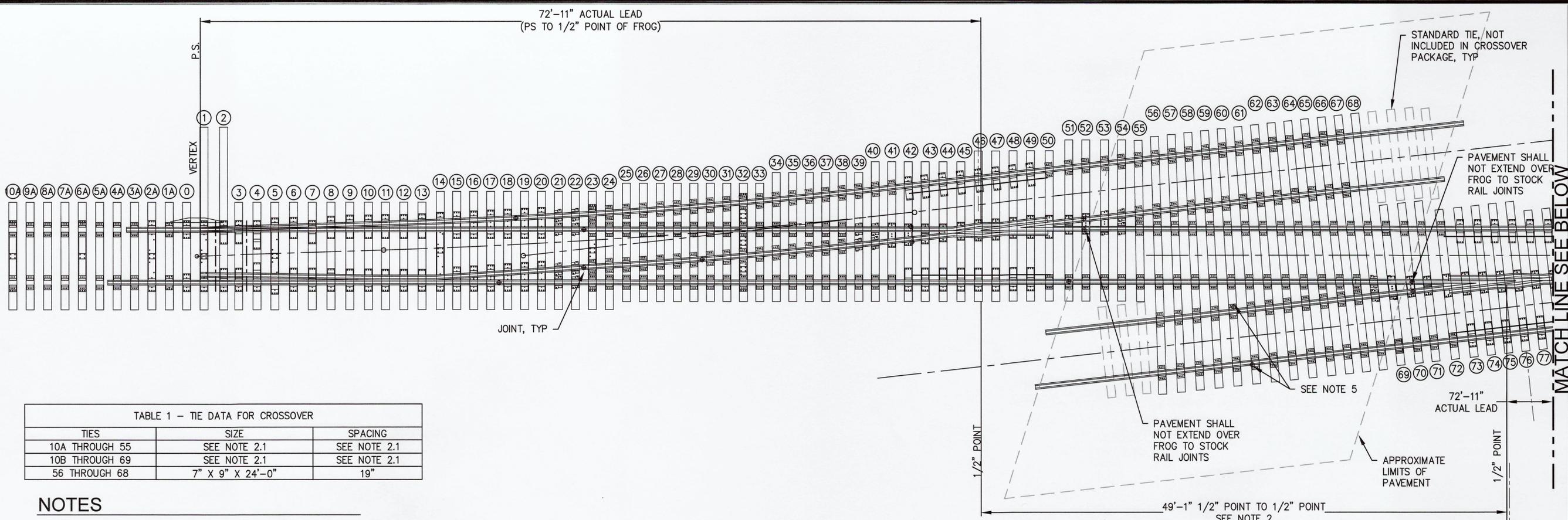
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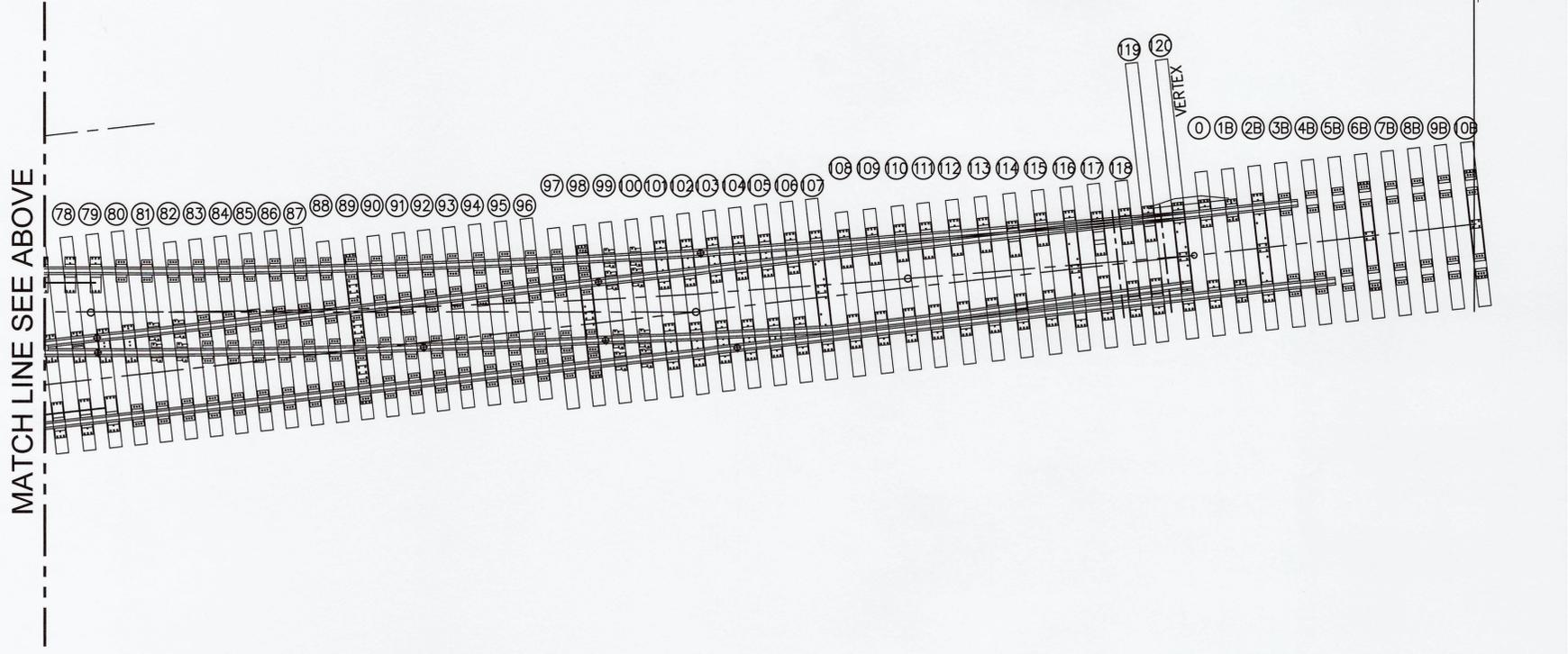


TIES	SIZE	SPACING
10A THROUGH 55	SEE NOTE 2.1	SEE NOTE 2.1
10B THROUGH 69	SEE NOTE 2.1	SEE NOTE 2.1
56 THROUGH 68	7" X 9" X 24'-0"	19"

**NOTES**

- BOTH TURNOUTS OF CROSSOVER ARE NO. 9 TURNOUTS. SEE SHEET C6 FOR TURNOUT DATA.
- BILL OF MATERIALS
  - UNLESS NOTED OTHERWISE IN TABLE 1, TIES SIZES AND SPACING SHALL BE PER STANDARD NO. 9 DETAIL SIZE AND SPACING SHOWN ON DETAIL 1 ON C6.
  - ALL SPECIAL PLATES SHALL BE 1 1/4" THICK WITH 1/4" DEEP MILL SEAT AND NO RAIL CANT.
  - MULTI-TIE PLATES SHALL BE USED UNDER ALL CASTING AREAS.
  - PANDROL TIE PLATES SHALL BE USED AT ALL LOCATIONS NOT OTHERWISE MENTIONED.
  - EXCEPT FOR TIES, RAIL, AND TIE PLATES, ALL OTHER TURNOUT MATERIAL SHALL MATCH THE BILL OF MATERIALS ON SHEET C6.
  - CONTRACTOR SHALL SUBMIT MANUFACTURER SHOP DRAWINGS FOR APPROVAL PRIOR TO CROSSOVER PROCUREMENT.
- CONTRACTOR SHALL PROCURE STOCK RAIL LENGTHS TO PLACE ALL JOINTS OUTSIDE OF THE PAVEMENT.
- JOINTS LOCATIONS AND RAIL LENGTHS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL SUBMIT JOINT LAYOUT PLAN PER THE SPECIFICATIONS.

MATCH LINE SEE ABOVE



1 / C1
**25, 26 NO. 9 CROSSOVER**  
 SCALE: 1" = 5'

6693

# C7

9 OF 11

BANANA YARD RAIL TURNOUT REPLACEMENT  
 TURNOUTS 25, 26 CROSSOVER

CONT/CONS: 071940  
 M. ID: 101615.01  
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TOWNSHIP: 21N  
 DAT-HRZ: W83-SF  
 PARCEL: 0321354035

RANGE: 3E  
 VERT: PORT OF TACOMA BM#  
 DRAWING SCALE: AS SHOWN

SECTION: 36  
 PORT OF TACOMA BM#  
 AS SHOWN

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 PROJ. ENGR DATE: 1/29/2024  
 DATE: 1/30/2024

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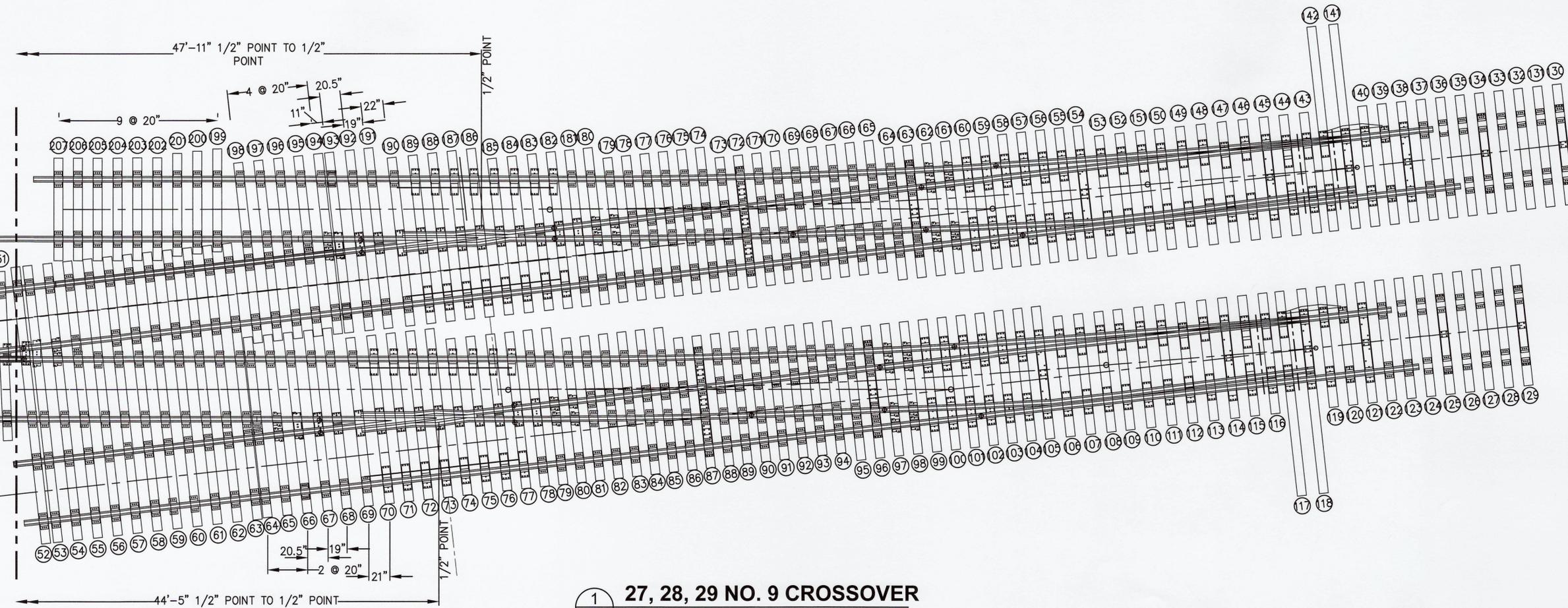
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TABLE 1 - TIE DATA FOR CROSSOVER		
TIES	SIZE	SPACING
10A THROUGH 50	SEE NOTE 2.1	SEE NOTE 2.1
130 THROUGH 190	SEE NOTE 2.1	SEE NOTE 2.1
129 THROUGH 69	SEE NOTE 2.1	SEE NOTE 2.1
50, 51	7" X 9" X 14'-0"	14.5"
52, 53	7" X 9" X 23'-0"	12"
53 - 63	7" X 9" X 23'-0"	20"
64 - 68	7" X 9" X 15'-0"	SEE DETAIL FOR DIM
191 - 198	7" X 9" X 15'-0"	SEE DETAIL FOR DIM
199 - 207	7" X 9" X 13'-0"	SEE DETAIL FOR DIM

NOTES

- BOTH TURNOUTS OF CROSSOVER ARE NO. 9 TURNOUTS. SEE SHEET C6 FOR TURNOUT DATA.
- BILL OF MATERIALS
  - UNLESS NOTED OTHERWISE IN TABLE 1, TIES SIZES AND SPACING SHALL BE PER STANDARD NO. 9 DETAIL SIZE AND SPACING SHOWN ON DETAIL 1 ON C6.
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  - MULTI-TIE PLATES SHALL BE USED UNDER ALL CASTING AREAS.
  - PANDROL TIE PLATES SHALL BE USED AT ALL LOCATIONS NOT OTHERWISE MENTIONED.
  - EXCEPT FOR TIES, RAIL, AND TIE PLATES, ALL OTHER TURNOUT MATERIAL SHALL MATCH THE BILL OF MATERIALS ON SHEET C6.
  - CONTRACTOR SHALL SUBMIT MANUFACTURER SHOP DRAWINGS FOR APPROVAL PRIOR TO CROSSOVER PROCUREMENT.
- JOINTS LOCATIONS AND RAIL LENGTHS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL SUBMIT JOINT LAYOUT PLAN PER THE SPECIFICATIONS.

MATCH LINE SEE ABOVE



1  
C1 27, 28, 29 NO. 9 CROSSOVER  
SCALE: 1" = 8'

72'-7" ACTUAL LEAD  
(PS TO 1/2" POINT OF FROG)

1/2" POINT

1/2" POINT

MATCH LINE SEE BELOW

6693

C8  
10 OF 11

CONTR/CONS: 071940  
M. ID: 101615.01  
PHASE: BID SET

BANANA YARD RAIL TURNOUT REPLACEMENT

TURNOUTS 27, 28, 29 CROSSOVER

TOWNSHIP: 21N RANGE: 3E SECTION: 36  
 DAT-HRZ: W83-SF VERT: PORT OF TACOMA BM#  
 PARCEL: 0321354035 DRAWING SCALE: AS SHOWN

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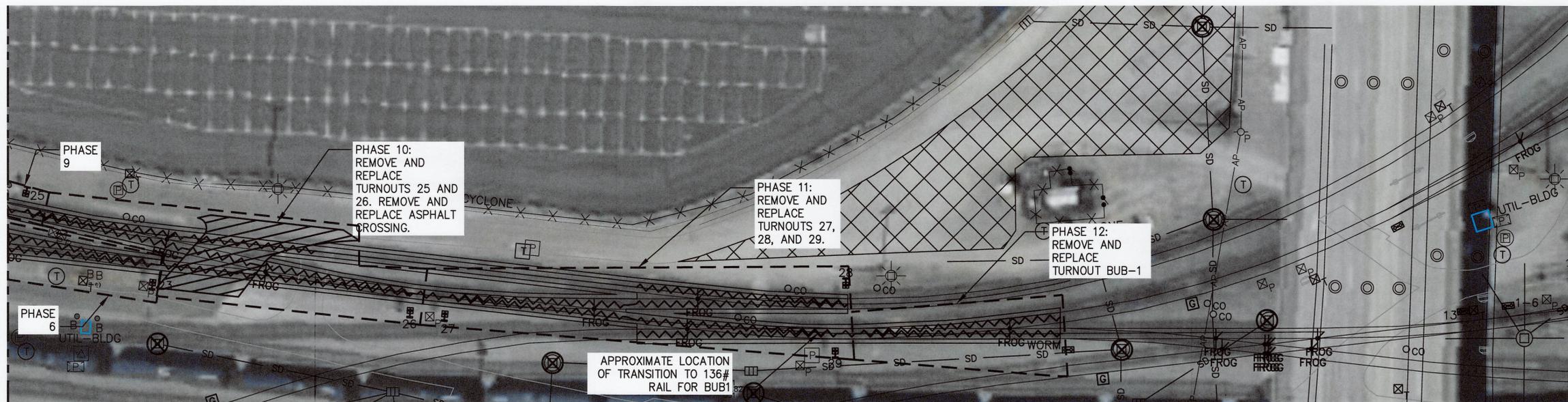
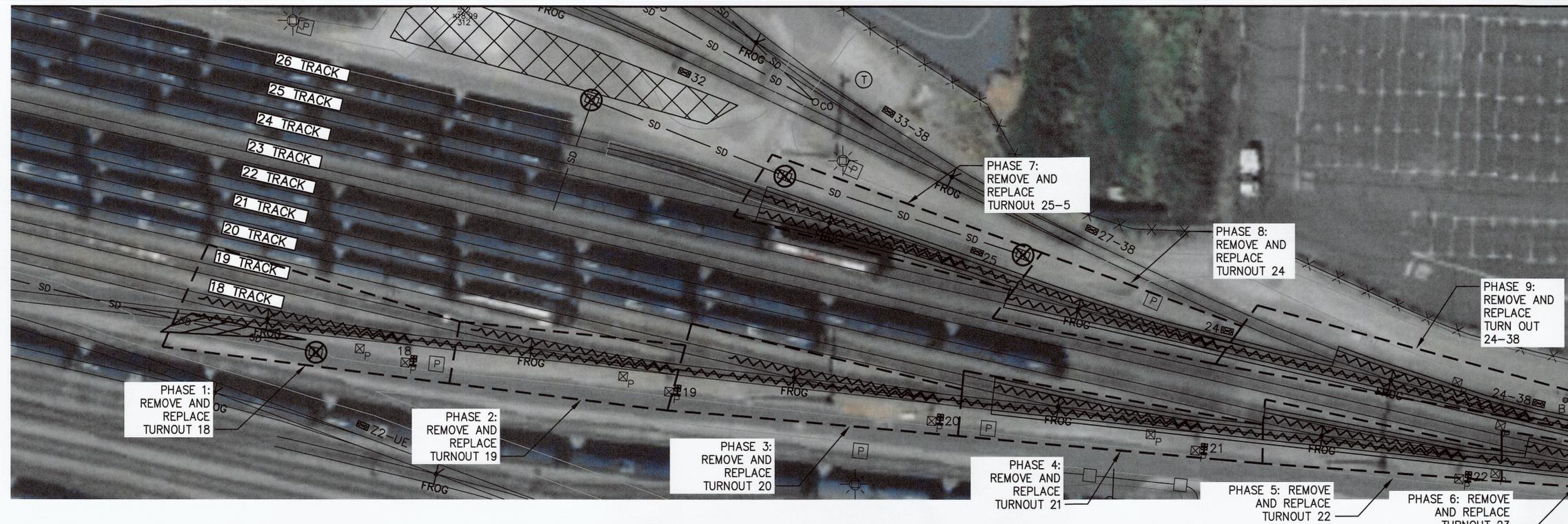


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**SITE PLAN**  
SCALE: 1" = 30'

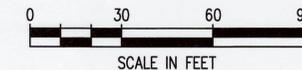
**LEGEND**

- EXISTING TRACK
- PROPOSED RAIL DEMOLITION AND REPLACEMENT
- CONTRACTOR STAGING AND LAYDOWN AREA
- ASPHALT DEMOLITION AND REPLACEMENT
- INLET PROTECTION

**NOTES**

1. NO EXISTING TURNOUT SHALL BE REMOVED UNTIL ITS REPLACEMENT HAS BEEN FULLY ASSEMBLED AND PREPARED IN A PANELIZED CONDITION AND READY FOR IMMEDIATE PLACEMENT AND INSTALLATION.
2. EACH PHASE SHALL COMPLY WITH THE MAXIMUM DAYS OUT OF SERVICE NOTED IN THE TABLE.
3. CONTRACTOR SHALL INCORPORATE SATURDAY AND SUNDAY AS TWO OF THE WORKING DAYS FOR PHASES 10 AND 11.
  - 3.1. CONTRACTOR SHALL COORDINATE THESE PHASES WITH TACOMA RAIL AND PRIORITIZE COMPLETION OF SPECIFIC LEGS OF THE CROSSOVERS TO PROVIDE CONDITIONAL ACCESS TO RAIL TRAFFIC DURING THE REMAINING WORKING DAYS AS REQUESTED BY TACOMA RAIL.
4. CONTRACTOR MAY MODIFY THE PHASING PLAN AS NECESSARY WITH COORDINATION AND APPROVAL FROM THE PORT AND TACOMA RAIL. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL HAVE AN AGREED UPON PHASING PLAN IN PLACE WITH THE PORT AND TACOMA RAIL.

PHASE NUMBER	TURNOUTS OUT OF SERVICE	TRACKS OUT OF SERVICE	MAXIMUM DAYS OUT OF SERVICE
1	18	18	2
2	19	18, 19	2
3	20	18, 19, 20	2
4	21	18, 19, 20, 21	2
5	22	18, 19, 20, 21, 22	2
6	23	18, 19, 20, 21, 22, 23	2
7	25-5	25, 26	2
8	24	24, 25, 26	2
9	24-38	24, 25, 26, 38	2
10	25 & 26	24, 25, 26, 38	4
11	27, 28, 29	18, 19, 20, 21, 22, 23, 24, 25, 26, 38	5
12	BUB-1	18, 19, 20, 21, 22, 23	2



MATCH LINE SEE BELOW

MATCH LINE SEE ABOVE

2407 North 31st Street, Suite 100  
Tacoma, Washington 98407  
(253) 396-0150 Fax (253) 396-0162

MARK: REVISION: BY: DATE: APPR:

**BANANA YARD RAIL TURNOUT REPLACEMENT**

PHASING AND SEQUENCING PLAN

TJH 1/29/2024

CHECKED BY DATE

SEK 1/29/2024

PROJECT ENG. DATE PROJ. ENGR DATE

PRINTED BY: thebig Jan 29, 2024

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA WA, 98401-1837

CONTRACTOR: 071940

M. ID: 101615.01

PHASE: BID SET

RANGE: 3E SECTION: 36

PORT OF TACOMA BM#

DRAWING SCALE: AS SHOWN

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11 OF 11

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