

1 TOTAL MARKING AREA (PER 12' WIDE LANE) = 109.75 SQ.FT.

STANDARD SYMBOL

GENERAL NOTE

See contract for location and material requirements.

MPH

25

30

35 40

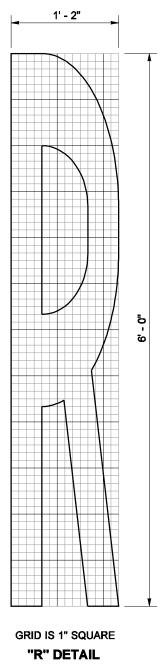
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50

55

60

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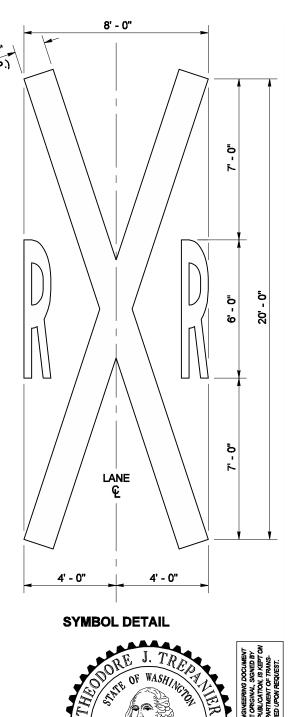


<u>\$</u> STOP LINE -(2) **D*** 50 Ft. 100 Ft. 150 Ft. 225 Ft. 300 Ft. 20 375 Ft. 1 450 Ft. 550 Ft. 650 Ft. * DIMENSIONS SHOWN ARE APPROXIMATE. SEE CONTRACT. **EDGE LINE** LANE LINE OR ROADWAY CENTERLINE

LAYOUT

1 TOTAL MARKING AREA (PER 12' WIDE LANE) = 111.59 SQ.FT.

ALTERNATIVE SYMBOL

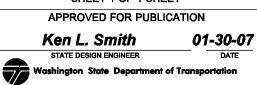


RAILROAD CROSSING LAYOUT

EXPIRES AUGUST 9, 2007

STANDARD PLAN M-11.10-01

SHEET 1 OF 1 SHEET



KEY NOTES

- 1 Bid Item "Railroad Crossing Symbol" includes "X" symbol, letters, and two 24" white transverse lines.
- 2 24" white transverse line
- 3 W10-1 Advance Warning Sign (not included in RR Crossing Symbol Bid Item)
- 4 Place Stop Line 15' from the nearest rail or approximately 8 feet from RR gate, if present.

THIS PLAN SET IS A SUPPLEMENTARY PLAN SET FOR THE WHITMAN STREET IMPROVEMENT PROJECT TIB PROJECT NO. 6-E-916(004)-1. SEE PRIMARY PLAN SET (BY MD+A) FOR THE WHITMAN STREET IMPROVEMENT PROJECT FOR ADDITIONAL INFORMATION. (THIS PLAN SET REFERS TO THAT PLAN AS "STREET IMPROVEMENT PLANS").

CONSTRUCTION WILL BE IN STRICT ACCORDANCE WITH THE PROJECT RAILROAD SPECIAL PROVISIONS, THE BNSF DESIGN GUIDELINES FOR INDUSTRIAL TRACK PROJECTS (DGFITP) AND WITH THE 2015 AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA) MANUAL FOR RAILWAY ENGINEERING, IN THAT ORDER.

ANY EXISTING CONDITIONS FOUND TO BE A VARIANCE WITH THESE DRAWINGS MUST BE IMMEDIATELY REPORTED TO THE

TRACK SHALL BE CONSTRUCTED TO THE ALIGNMENT AND GRADE SHOWN IN THESE PLANS.

SUBMITTALS ARE REQUIRED FOR ALL PERMANENT CONTRACTOR SUPPLIED MATERIALS TO BE INCORPORATED.

TESTING: REFER TO RAILROAD SPECIAL PROVISIONS FOR TESTING REQUIREMENTS.

CONTRACTOR WILL PROVIDED VERTICAL AND HORIZONTAL CONTROL STAKES ON 25' INCREMENTS ON CURVES AND 50' ON TANGENTS. STAKING WILL ALSO BE PROVIDED FOR POINT OF CURVES AND TANGENTS, AND AT TIE-INS. STAKING SHOULD BE MAINTAINED UNTIL FINAL ACCEPTANCE.

CONSTRUCTION OF ROADBED:

SUB-BALLAST AND GRADE/PROFILE WILL BE PLACED WITHIN PLUS OR MINUS 1 INCH FROM DESIGN GRADE/ PROFILES. CONTINUOUS HIGH OR LOW SUB-BALLAST WILL NOT BE ACCEPTABLE.

DEVIATION FROM RAIL DESIGN ELEVATION WILL NOT BE ACCEPTABLE.

CONTRACTOR SHALL NOTIFY WSDOT FOR SUBBALLAST INSPECTION AT LEAST 1 WEEK PRIOR TO PLANNED INSTALLATION OF RAIL, TIES AND OTM. SUBBALLAST MUST BE APPROVED BY WSDOT PRIOR TO INSTALLATION OF RAIL, TIES AND OTM.

CONTRACTOR SHALL NOTIFY WSDOT FOR TRACK INSPECTION AT LEAST 1 WEEK PRIOR TO ANY BACKFILL AND/OR PAVING AROUND OR OVER TRACK OR BALLAST MATERIALS, RAIL, TIES AND OTM.

CONTRACTORS SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM THE RAIL BED THROUGHOUT THE CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH TEMPORARY EROSION / SEDIMENTATION CONTROLS AS INDICATED IN STREET IMPROVEMENT PLANS.

CONSTRUCTION MUST BE APPROVED BY WSDOT AND W&I RAILROAD PRIOR TO PLACING TRACK IN SERVICE

BEFORE CONSTRUCTION CAN BE CONSIDERED COMPLETE, WSDOT, W&I RAILROAD, AND THE CITY OF PALOUSE WILL PERFORM INSPECTIONS AND RECEIVE TESTING INFORMATION TO EVIDENCE THE CONSTRUCTION IS IN STRICT ACCORDANCE WITH THE PLANS AND OTHER CONTRACT DOCUMENTS.

HORIZONTAL AND VERTICAL CLEARANCE SHALL BE IN ACCORDANCE WITH BNSF DGFITP AND WAC CH. 296-860--WHICHEVER IS MOST CONSERVATIVE.

RAILROAD STATIONING FOR PROFILES AND ALIGNMENTS IS BASED ON 0+00 AT THE POINT OF SWITCH OF THE WIM LINE.

MD+A CONTROL POINT NEAR TRACK CENTERLINE AT THE WESTERLY EDGE OF DIVISION STREET. (IT WILL BE NECESSARY TO RELOCATE BENCHMARK PRIOR TO CONSTRUCTION)

DISTANCE FROM TOP OF RAIL ELEVATION TO TOP OF SUBGRADE AT CENTERLINE OF TRACK IS 2.58' ON TANGENT TRACK FOR 115# RAIL BASED ON CONCRETE TIE TRACK SECTION.

1. TRACK DESIGN BASED ON THE BNSF DESIGN GUIDELINES FOR INDUSTRIAL TRACK PROJECTS, AREMA, PRIOR STREET IMPROVEMENT PROJECT, AND AS NOTED.

- 2. REFER TO TYPICAL SECTIONS, SHEET 3B FOR SECTIONS TO BE CONSTRUCTED.
- 3. DESIGN WAS PERFORMED ON TOPOGRAPHIC INFORMATION PROVIDED BY MD+A

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITY AGENCIES.

CONTRACTOR SHALL PROTECT IN PLACE (BY ANY MEANS NECESSARY) ALL EXISTING UTILITIES TO REMAIN UNLESS OTHERWISE SPECIFIED HEREIN, CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REPAIR AT HIS EXPENSE, FOR ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, OR OTHER SITE FEATURES, AS A RESULT OF HIS WORK.

PRIOR TO PLACING CURBS, PAVEMENTS, BASE, SUBBASE, TRACK, ETC., ALL UNDERGROUND UTILITIES SHALL BE INSTALLED, BACKFILL COMPLETED, AND THE ENGINEER NOTIFIED BY EACH OF THE UTILITY COMPANIES HAVING FACILITIES WITHIN THE WORK AREA, THAT THE UTILITY INSTALLATION HAS SATISFACTORILY PASSED ACCEPTANCE TESTS

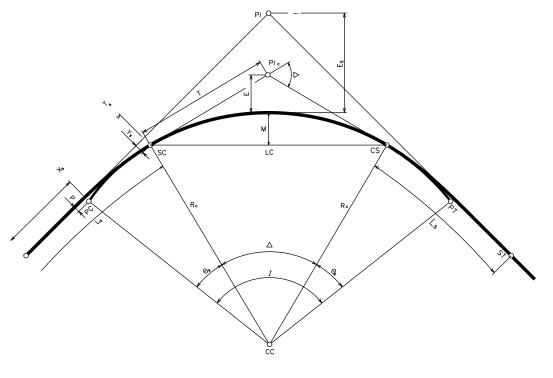
CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WHETHER KNOWN OR UNKNOWN PRIOR TO BEGINNING CONSTRUCTION

WASHINGTON STATE LAW REQUIRES CONTRACTORS TO FOLLOW RULES ADOPTED BY THE WASHINGTON UTILITY AND TRANSPORTATION COMMISSION.

ABBREVIATIONS

BOUNDARY BVCE BEGIN VERTICAL CURVE ELEVATION BEGIN VERTICAL CURVE STATION BVCS CORRUGATED METAL PIPE CNTL CONTROL CONC. CONCRETE ELEVATION EL. ELEV EOT END OF TRACK EASEMENT EVCE END VERTICAL CURVE ELEVATION END VERTICAL CURVE STATION **EVCS** EXISTING EXIST, EX FT GR CRADE HORI **HORIZON TAL** HAND THROW TURNOUT HTTO INVERT LENGTH LEFT HAND MAX. MAXIMI IM

NUMBER NOT TO SCALE P.S., PSW POINT OF SWITCH POINT OF INTERSECTING TURNOUT P.I.T.O. PROPOSED POINT ON TANGENT POINT OF TANGENT P.O.T. Ρī POINT OF VERTICAL CURVE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY POINT OF HORIZONTAL INTERSECTION RR Row RAILROAD RIGHT OF WAY RH RT RIGHT HAND RIGHT SHT, SHTS, STA SW, T SHEET SHEETS STATION SWITCH TANGENT LENGTH TRACK FOOT T.O. T/R TRK TYP. TURNOUT TOP OF RAIL UNION PACIFIC RAILROAD UPRR UTIL UTILITY GRADE CROSSING VERT VERTICAL



CIRCULAR CURVE **DEFINITIONS**

DISTANCE FROM TS/ST TO PC/PT OF CIRCULAR CURVE MEASURED ALONG MAIN TANGENT LENGTH OF SPIRAL ARC FROM TS TO ANY POINT ON SPIRAL LENGTH OF SPIRAL ARC FROM TS/ST TO SC/CS LONG CHORD OF CIRCULAR CURVE LENGTH OF CIRCULAR CURVE LENGTH OF LONG TANGENT OF SPIRAL MID ORDINATE DISTANCE OF CIRCULAR CURVE OFFSET OF PC/PT OF CIRCULAR CURVE MEASURED FROM MAIN TANGENTS POINT OF CIRCULAR CURVE POINT OF INTERSECTION OF MAIN TANGENTS POINT OF INTERSECTION OF CIRCULAR CURVE TANGENTS PΤ POINT OF TANGENT OF CIRCULAR CURVE RADIUS OF CIRCULAR CURVE POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE POINT OF INTERSECTION OF SPIRAL TANGENTS POINT OF CHANGE FROM SPIRAL TO TANGENT ST_{S} LENGTH OF SHORT TANGENT OF SPIRAL TANGENT LENGTH OF CIRCULAR CURVE POINT OF CHANGE FROM TANGENT TO SPIRAL TANGENT LENGTH FROM TS/ST TO PI

DISTANCE FROM TS/ST OF ANY POINT ON THE SPIRAL

OFFSET OF ANY POINT ON SPIRAL MEASURED FROM

OFFSET OF SC/CS MEASURED FROM MAIN TANGENT

P.E. STAMP BOX

DISTANCE FROM TS/ST TO SC/CS PROJECTED TO MAIN TANGENT

PROJECTED TO MAIN TANGENT

CENTRAL ANGLE OF SPIRAL ARC L CENTRAL ANGLE OF SPIRAL ARC Ls DEFLECTION ANGLE OF A CHORD BETWEEN TS/ST AND ANY POINT ON THE SPIRAL

MAIN TANGENT

POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL

CENTER OF CIRCULAR CURVE

EXTERNAL DISTANCE FROM PI

EXTERNAL DISTANCE FROM PI

INTERNAL ANGLE

DEGREE OF CURVE (CHORD DEFINITION)

FILE NAME						
TIME				RECOON NO.	STATE	FED. AID PROJ. NO.
DATE				_	WASH	
PLOTTED BY						
DESIGNED BY				J08 N	UNDER	
ENTERED BY						
CHECKED BY				CONTR	MCT NO.	LOCATION NO.
PROJ. ENGR.						
REGIONAL ADM.	REVISION	DATE	BY			

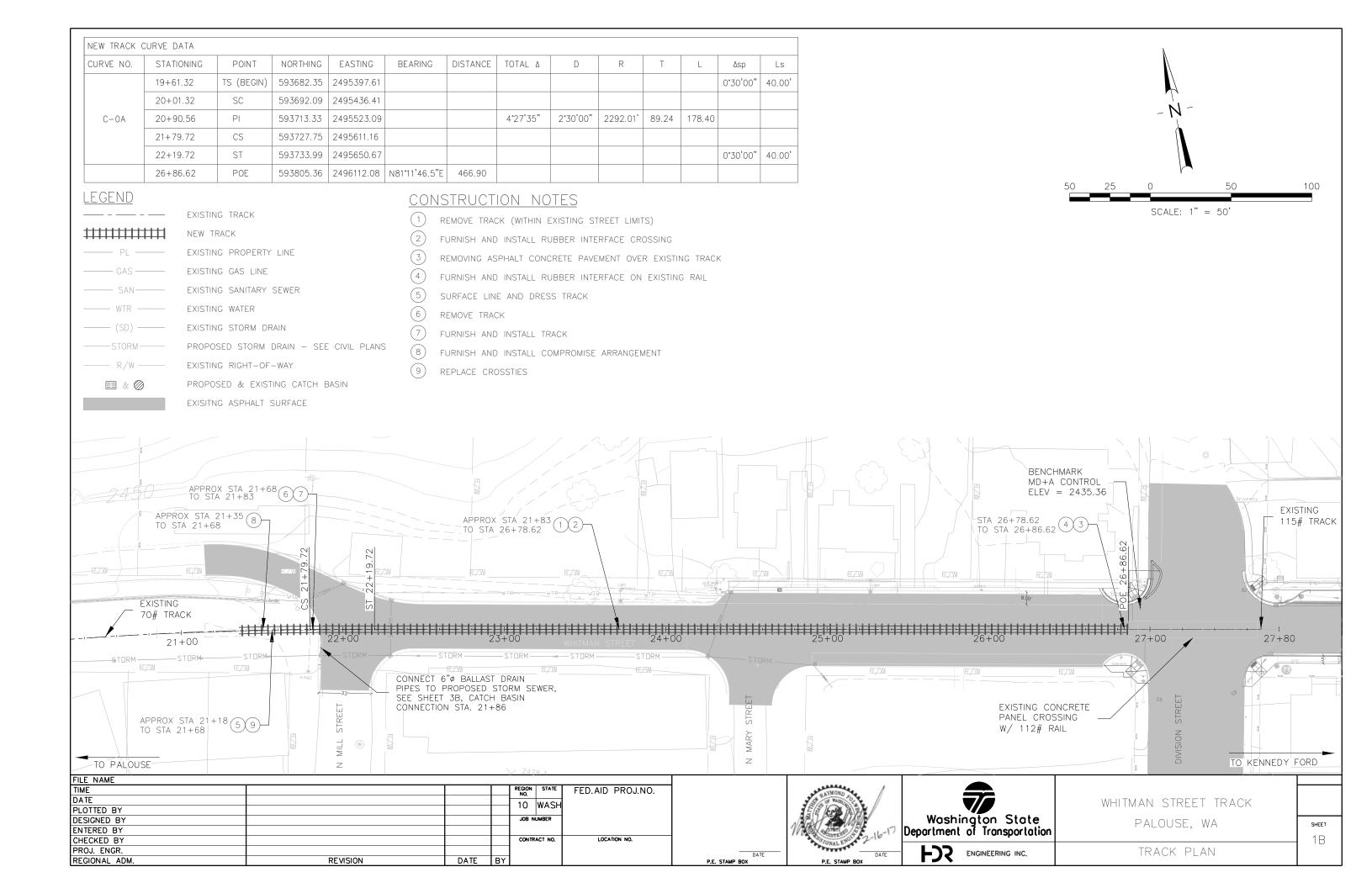


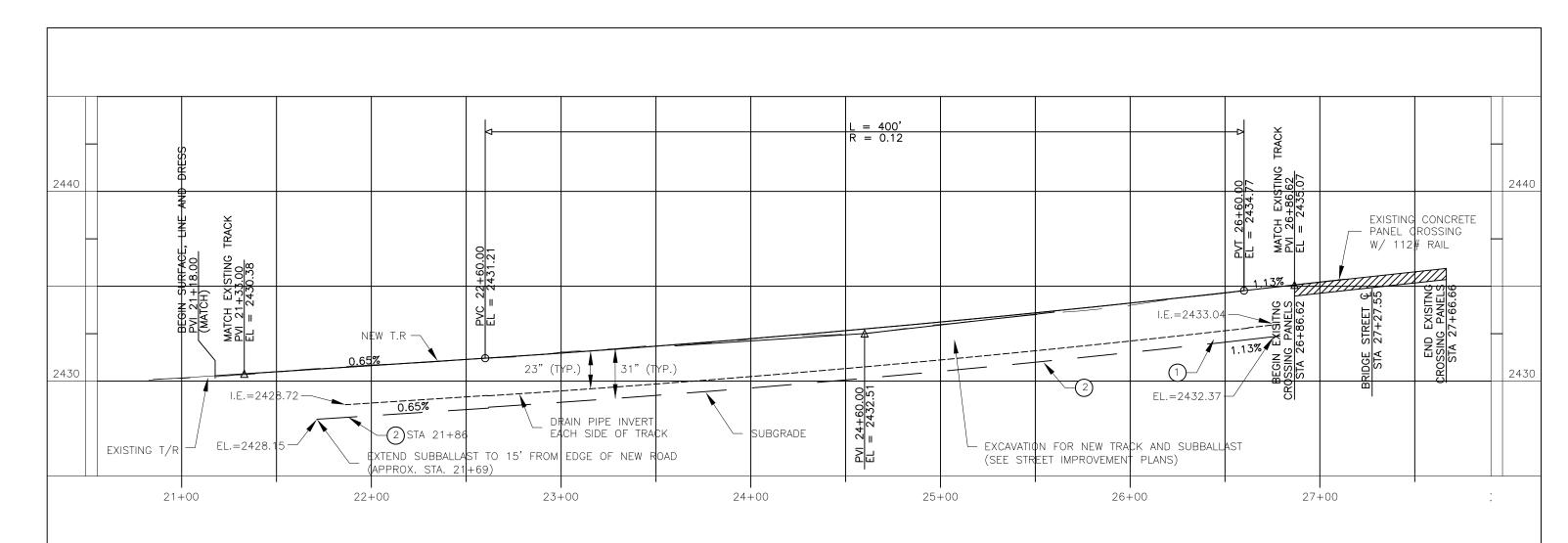


WHITMAN STREET TRACK PALOUSE, WA

CONSTRUCTION NOTES AND

SHEET 0B





TRACK PROFILE - STA 21+00 TO 26+86.62

P.E. STAMP BOX

SCALE: HORI: 1" = 50'-0" VERT: 1" = 5'-0"

CONSTRUCTION NOTES

- 1) FURNISH AND INSTALL SUBBALLAST
- 2 FURNISH AND INSTALL PVC DRAIN PIPE (6" DIA.)
- (3) FURNISH AND INSTALL CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION

FILE NAME						
TI ME				REGION NO.	STATE	FED. AID PROJ. NO.
DATE					WASH	
PLOTTED BY				שיו	WHON	
DESIGNED BY				JOB NUMBER		
ENTERED BY				1		
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PROJ. ENGR.						
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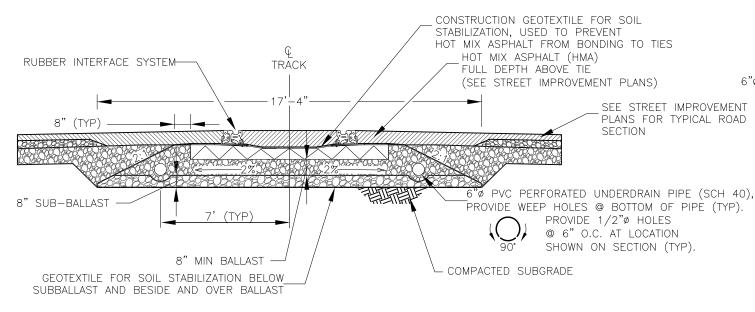


7	Washington State Department of Transportation	
	ENGINEERING INC.	

WHITMAN STREET TRACK
PALOUSE, WA

TRACK PROFILE

SHEET 2B



TYPICAL TRACK SECTION - W/ RUBBER

INTERFACE CROSSING STA 21+83 TO 26+78.62

SCALE: NTS

RUBBER INTERFACE CROSSING TRACK

RUBBER INTERFACE CROSSING TRACK

HOT MIX ASPHALT (HMA)
FULL DEPTH ABOVE TIE
(SEE STREET IMPROVEMENT PLANS)

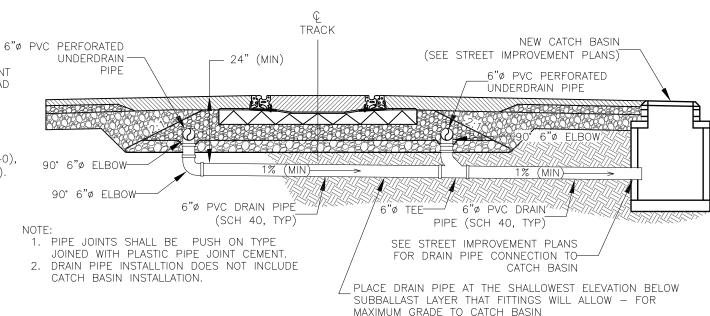
SEE STREET IMPROVEMENT PLANS FOR TYPICAL ROAD SECTION

EXISTING TRACK

EXISTING BALLAST
AND SUBBALLAST

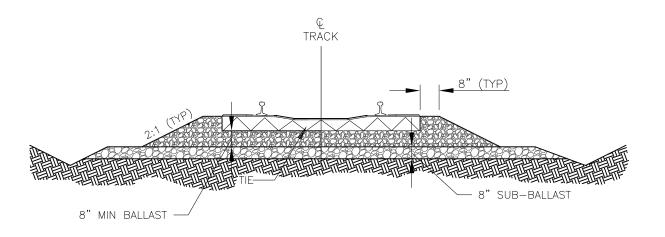
TYPICAL EXISTING TRACK SECTION — ASPHALT W/ RUBBER INTERFACE SEAL STA 26+78.62 TO 26+86.62

SCALE: NTS



BALLAST DRAIN PIPE TO CATCH BASIN CONNECTION STA 21+86

SCALE: NTS



TYPICAL TRACK SECTION
STA 21+18 TO 21+83
scale: NTS

FILE NAME						
TIME				REGION NO.	STATE	FED.AID PROJ.NO.
DATE					WASH	
PLOTTED BY				10	WASH	
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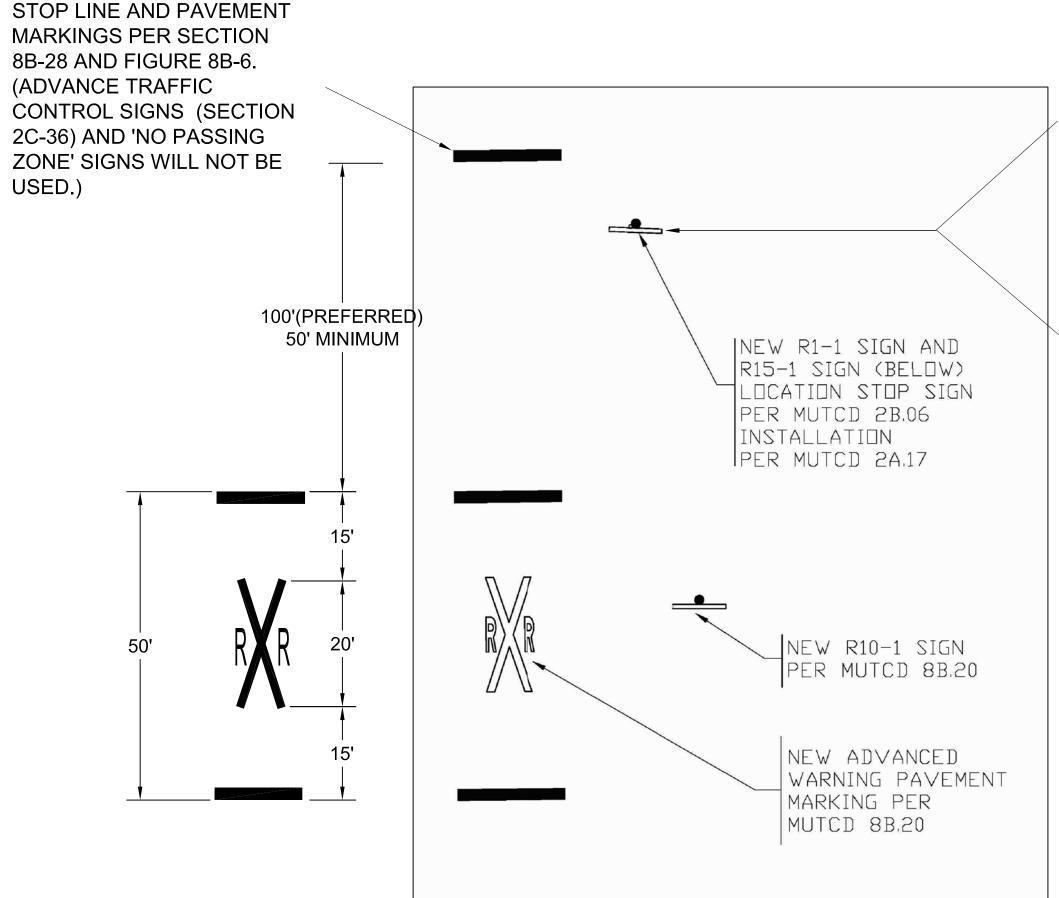
P.F. STAMP BOX



WHITMAN STREET TRACK
PALOUSE, WA

DETAILS

SHEET 3B



R15-1 SIGN AND R1-1 SIGN (BELOW)--INCLUDING REFLECTIVE STRIP--PER MUTCD SECTIONS 8B.02, 8B.03, AND 8B.04 AND FIGURE 8B-2. (EMERGENCY NOTIFICATION SIGN (I-13) SHALL BE FURNISHED AND INSTALLED BY WSDOT).

(STOP-1 LOCATION)

R15-1 SIGN AND R1-2 SIGN (BELOW)--INCLUDING REFLECTIVE STRIP--PER MUTCD SECTIONS 8B.02, 8B.03, AND 8B.04 AND FIGURE 8B-2. (EMERGENCY NOTIFICATION SIGN (I-13) SHALL BE FURNISHED AND INSTALLED BY WSDOT).

(YIELD-4 LOCATIONS)

W10-1 SIGN PER MUTCD 8B.06

ADVANCED WARNING PAVEMENT MARKING PER MUTCD SECTION 8B.06, 8B.27, AND FIGURE 8B-7A