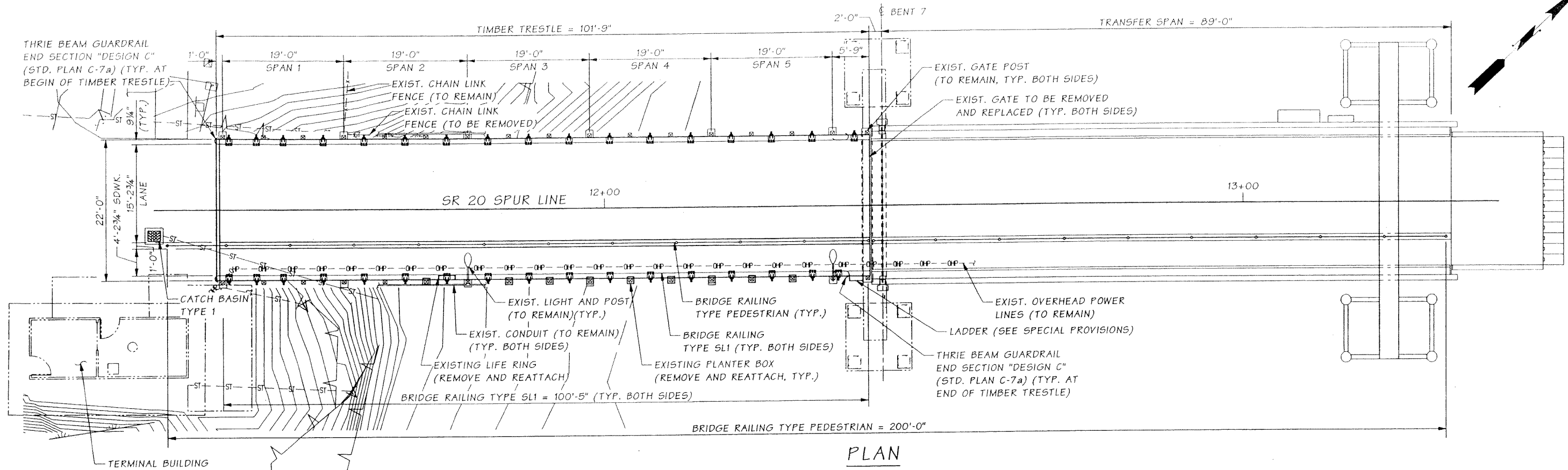
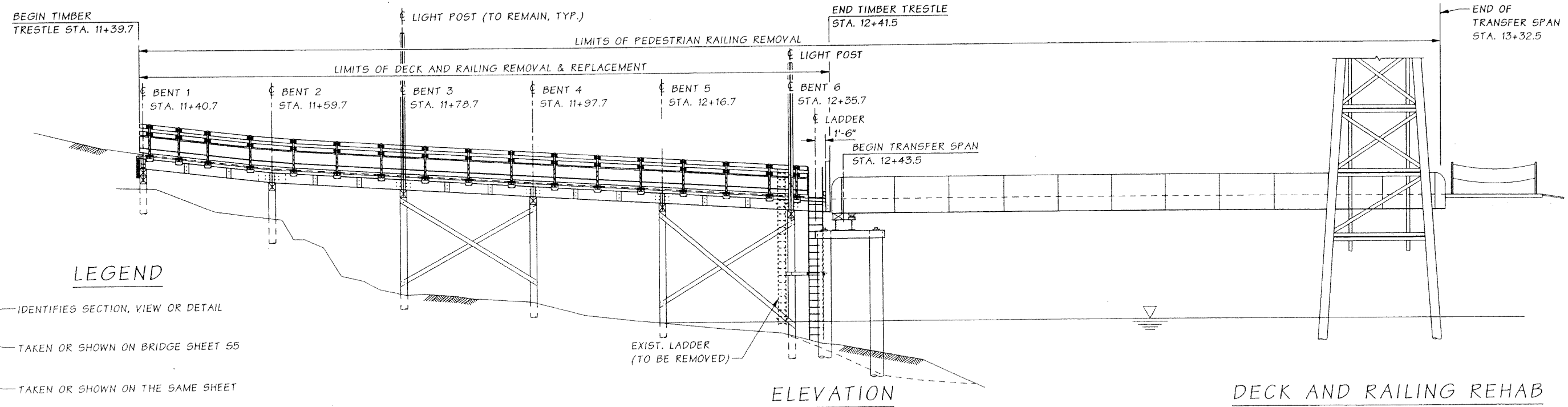


T.36N. R.2W. W.M.  
SAN JUAN COUNTY

SR 20 SPUR



PLAN



ELEVATION

DECK AND RAILING REHAB

Bridge Design Engr.	khaleghi, B	M:\Z-Team\Lopez Is. Ferry Terminal\window files\Layout.WND					
Supervisor	Zeldenrust, RP	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
Designed By	ROSA, M	10	WASH.				
Checked By	Gallagher, P						
Detailed By	Foot, N						
Bridge Projects Engr.		JOB NUMBER	11W111				
Prelim. Plan By							
Architect/Specialist		DATE	REVISION	BY	APP'D		

BRIDGE  
AND  
STRUCTURES  
OFFICE

5/24/12



Washington State  
Department of Transportation

SR20 SPUR  
LOPEZ FERRY TERMINAL  
TIMBER TRESTLE REHABILITATION  
BR. NO. 20/208TR4  
TRESTLE LAYOUT

BRIDGE  
SHEET  
NO.  
S1  
SHEET  
9  
OF  
22  
SHEETS

SR 20 FILE NO. 2895 SHEET S1

GENERAL NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2012, AND AMENDMENTS.
2. THESE STRUCTURE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 6TH EDITION 2012.
3. THE CONTRACTOR SHALL NOT DAMAGE EXISTING STRUCTURE THAT IS TO REMAIN.
4. THE DIMENSIONS SHOWN ON THE PLANS FOR EXISTING STRUCTURES ARE BASED ON CONSTRUCTION RECORDS AND FIELD SURVEY DATA. RECORD DRAWINGS ARE NOT NECESSARILY COMPLETE NOR ACCURATE. FIELD CONDITIONS MAY VARY FROM THE RECORD DRAWINGS AND THESE CONTRACT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO SHOP FABRICATION. THE CONTRACTOR SHALL VERIFY ALL RELEVANT DIMENSIONS AND SURVEY DATA. PLANS OF EXISTING STRUCTURES ARE NOT INCLUDED IN THE CONTRACT PLANS AND ARE AVAILABLE AT THE OFFICE OF THE ENGINEER.
5. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
6. ALL DIMENSIONS ARE HORIZONTAL AND VERTICAL UNLESS OTHERWISE NOTED.

STEEL NOTES

1. MATERIAL SPECIFICATIONS:
- |  |                         |
|--|-------------------------|
| PLATES   | ASTM A 36               |
| STEEL POSTS  | ASTM A 36 OR ASTM A 992 |
| BOLT, NUTS AND WASHERS<br>(UNLESS OTHERWISE NOTES) | STD. SPEC. 9-16.3(4)    |
| WIRE NAILS OR SPIKES                               | ASTM F 1667             |
2. BOLT HOLES IN STEEL SHALL BE A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER UNLESS OTHERWISE SPECIFIED.
3. ALL NON-STAINLESS STEEL PARTS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 AFTER FABRICATION. BOLTS AND HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 232.

WOOD NOTES

1. ALL TIMBER AND LUMBER SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 6-04.
2. ALL HARDWARE SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO M232.
3. ALL BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE FITTED WITH MALLEABLE WASHERS.
4. BOLT HOLES IN WOOD SHALL BE A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER UNLESS OTHERWISE SPECIFIED.
5. BOLT LENGTHS NOT SHOWN SHALL BE SIZED TO PROVIDE A 1/4" MINIMUM OF THREAD EXPOSED BEYOND THE NUT.
6. ALL CUT SURFACES, SPIKE AND BOLT HOLES, AND CONTACT SURFACES SHALL BE TREATED IN ACCORDANCE WITH STANDARD SPECIFICATION 6-04.3(4) AND SUPPLEMENTED BY THE "WOOD FIELD TREATMENT NOTES" ON THIS SHEET, UNLESS OTHERWISE NOTED.
7. TIMBER-TO-TIMBER AND TIMBER-TO-STEEL CONNECTIONS SHALL HAVE NUTS TIGHTENED TO 100 FOOT-POUNDS TORQUE.
8. NAIL LAMINATED DECK SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD SPECIFICATION 6-04.3(15).
9. NEW TIMBER SIZES ARE NOMINAL UNLESS OTHERWISE NOTED.
- S4S = SURAFCE 4 SIDES  
S2E = SURAFCE 2 EDGES

WOOD FIELD TREATMENT NOTES

1. ALL TIMBER WITH FIELD CUT SURFACES, EXCEPT CURB AND RAIL ABOVE BRIDGE DECK, SHALL BE TREATED WITH A LIBERAL APPLICATION OF COPPER NAPHTHENATE UNTIL VISIBLE EVIDENCE OF FURTHER PENETRATION HAS CEASED.
2. AFTER TREATMENT WITH COPPER NAPHTHENATE, COAL-TAR ROOFING CEMENT MEETING ASTM D5643 SHALL BE APPLIED TO ALL CUT SURFACES, AND PUMPED INTO SPIKE AND BOLT HOLES USING A GREASE GUN OR SIMILAR DEVICE.
3. ALL UNUSED SPIKE AND BOLT HOLES SHALL HAVE 3" LONG TREATED DOWELS INSTALLED. THE DOWELS SHALL BE TREATED BY SOAKING IN A CONTAINER OF COPPER NAPHTHENATE UNTIL VISIBLE EVIDENCE OF FURTHER PENETRATION HAS CEASED.

TIDAL DATA  
NOAA TIDES AND CURRENTS

TERMINAL	LOPEZ
SOURCE	NOAA
LOCATION	RICHARDSON
NOAA STATION	9449982
EPOCH	1983 - 2001
HIGHEST ESTIMATED TIDE (USACE)	10.50 +/- 0.5
HIGHEST OBSERVED WATER LEVEL	9.58
MEAN HIGHER HIGH WATER (MHHW)	7.16
MEAN HIGH WATER (MHW)	6.63
MEAN LOW WATER (MLW)	2.09
MEAN LOWER LOW WATER (MLLW)	0.00 (DATUM)
LOWEST OBSERVED WATER LEVEL	-3.85
LOWEST ESTIMATED TIDE (USACE)	-4.00 +/- 0.5

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\Lopez Is. Ferry Terminal\window files\General Notes.WND									
Supervisor	Zeldenrust, RP					REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
Designed By	Rosa, M	02/12				10	WASH.				
Checked By	Gallagher, P	05/12									
Detailed By	Foote, N	02/12									
Bridge Projects Engr.							JOB NUMBER				
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GENERAL NOTES

BRIDGE  
SHEET  
NO.  
52  
SHEET  
10  
OF  
22  
SHEETS