



WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

Washington State Dept. of Transportation

Petitioner,

vs.

Sound Transit, City of Lakewood, BNSF,
Tacoma Rail

Respondent

DOCKET NO. TR-

PETITION TO CONSTRUCT A
RAILROAD-HIGHWAY GRADE
SEPARATION (OVERCROSSING OR
UNDERCROSSING)

The Petitioner asks the Washington Utilities and Transportation Commission approve construction of a railroad-highway grade separation (overcrossing or undercrossing) as described in this petition. An overcrossing means any point or place where a highway crosses a railroad by passing above the same, or any point or place where one railroad crosses another railroad not at grade. An undercrossing means any point or place where a highway crosses a railroad by passing under the same, or any point or place where one railroad crosses another not at grade. RCW 81.53.010

Section 1 – Petitioner’s Information

Washington State Department of Transportation

Petitioner

Signature

310 Maple Park Avenue SE, Suite 2B

Street Address

Olympia, WA 98504

City, State and Zip Code

PO Box 47329 Olympia, WA 98504-7329

Mailing Address, if different than the street address

Connie Raezer

Contact Person Name

360-705-7459 raezerc@wsdot.wa.gov

Contact Phone Number and E-mail Address

Section 2 – Respondent's Information

Sound Transit

Respondent

401S Jackson Street

Street Address

Seattle, WA 98104

City, State and Zip Code

Mailing Address, if different than the street address

Martin Young

Contact Person Name

206-398-5115 Martin.Young@soundtransit.org

Contact Phone Number and Email Address

Additional Respondents:

City of Lakewood, 6000 Main Street SW, Lakewood, WA 98499-5027, Paul Bucich 253-983-7737 or pbucich@cityoflakewood.us

BNSF Railway Company, 2454 Occidental Ave S Suite 2D, Seattle, WA 98134 Steve Semenick 206-625-6152 or seminicks@bnsf.com

Tacoma Rail, 2601 SR 509 North Frontage Road, Tacoma WA 98421 Kyle Kellem 253-377-3554 or kkellem@cityoftacoma.org

Section 3 – Crossing Location

1. Existing railroad Sound Transit (USDOT crossing 085828M to be closed)

2. GPS location 47.127443 -122.54291

3. Railroad mile post (nearest tenth) 12.79

4. City Lakewood County Pierce

Section 4 – Current Highway Traffic Information

1. Name of highway North Thorne Lane SW (connecting to Interstate 5)
2. Road authority Washington State Department of Transportation
3. Average annual daily traffic (AADT) 6800
4. Number of lanes 3
5. Roadway speed 25 MPH
6. Is the crossing part of an established truck route? Yes No
7. If so, trucks are what percent of total daily traffic? 7%
8. Is the crossing part of an established school bus route? Yes No
9. If so, how many school buses travel over the crossing each day? 10

Section 5 – Crossing Traffic

1. Name of railroad(s) operating at proposed crossing:
, BNSF, Tacoma Rail, Amtrak
2. Type of railroad at crossing Common Carrier Logging Industrial
 Passenger Excursion
3. Type of tracks at proposed crossing Main Line Siding or Spur
4. Number of tracks at proposed crossing 1
5. Average daily train traffic, freight Less than 1/day
Authorized freight train speed 40 MPH Operated freight train speed 30 to 40 MPH
6. Average daily train traffic, passenger 14 (once passenger train service resumes)
Authorized passenger train speed 79 MPH Operated passenger train speed 30 to 79 MPH

Section 6 – Description of Proposed Crossing

1. Describe in detail the reasons for constructing a grade separation at this location. Indicate whether the crossing will be an overcrossing or undercrossing:

The purpose of this new grade separation is to replace USDOT crossing 085828M. This work will take place as part of a larger Interstate 5 widening project. The grade separation will improve safety for both vehicle and train traffic and improve traffic flows to and from Interstate 5.

2. How far is the nearest alternate access across the tracks from the proposed crossing?
1 mile to the southwest at Berkeley Street SW.

3. Describe the alternate access route, including distance and driving time:
Drive southwest on Union Avenue SW for 1 mile to reach the track crossing at Berkeley Street.
Approximately 5 minutes driving time.

4. Will the proposed crossing eliminate the need for one or more existing crossings?
Yes No

5. If so, identify the crossing(s) by USDOT number and state the distance and direction from the proposed crossing.
USDOT 085828M will be closed at the completion of the grade separation.

6. Describe what will happen with the existing crossing(s) during construction of the grade separation, as well as what will happen with the crossing surface, signage and signal equipment once the grade separation is complete.

During the construction of the new grade separation the USDOT crossing 085828M will remain fully functional. After construction of the grade separation the crossing will be closed. The existing roadway approaches will be removed and barricades along with fencing will be provided. Sound Transit will remove existing signals to be put into their inventory for use elsewhere on the system.

6. Who is responsible for long-term maintenance of the grade separation?
Washington State Department of Transportation.

Section 7 – Illustration of Crossing

Attach a diagram, drawing, map or other illustration showing the location of the railroad and the proposed location of the crossing. Include the parcels of private property located on both sides of the proposed crossing for a distance of 500' from the crossing and the name and mailing address of each property owner.

See Attached Figure

Section 8 – Waiver of Hearing by Respondent

Waiver of Hearing

The undersigned represents the Respondent in this petition to construct a highway-rail grade separation.

We have investigated the conditions at the crossing. We are satisfied the conditions are the same as described by the Petitioner in this docket. We do not oppose the proposed grade-separated crossing and consent to a decision by the commission without a hearing.

Dated at Seattle, Washington, on the 23 day of
July, 2019.

Dale Lewis

Printed name of Respondent



Signature of Respondent's Representative

Traffic Safety Systems Director

Title

206-903-7363 dale.lewis@soundtransit.org

Phone number and email address

401 South Jackson Street

Seattle, WA 98104

Mailing address

Section 8 – Waiver of Hearing by Respondent

Waiver of Hearing

The undersigned represents the Respondent in this petition to construct a highway-rail grade separation.

We have investigated the conditions at the crossing. We are satisfied the conditions are the same as described by the Petitioner in this docket. We do not oppose the proposed grade-separated crossing and consent to a decision by the commission without a hearing.

Dated at Lakewood, Washington, on the 8th day of
August, 2019.

Paul A Bucich

Printed name of Respondent

Paul A. Bucich

Signature of Respondent's Representative

Public Works Engineering Director/City Engineer

Title

253-983-7737, pbucich@cityoflakewood.us

Phone number and email address

6000 Main Street SW

Lakewood WA 98499-5027

Mailing address

Section 8 – Waiver of Hearing by Respondent


Waiver of Hearing

The undersigned represents the Respondent in this petition to construct a highway-rail grade separation.

We have investigated the conditions at the crossing. We are satisfied the conditions are the same as described by the Petitioner in this docket. We do not oppose the proposed grade-separated crossing and consent to a decision by the commission without a hearing.

Dated at Seattle, Washington, on the 30th day of
July, 2019.

Stephen Semenick
Printed name of Respondent


Signature of Respondent's Representative

Manager Public Projects
Title

206-625-6152; stephen.semenick@bnsf.com
Phone number and email address

2454 Occidental Ave S Ste 2D

Seattle, WA 98134
Mailing address

Section 8 – Waiver of Hearing by Respondent

Waiver of Hearing

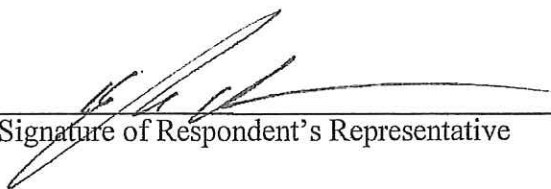
The undersigned represents the Respondent in this petition to construct a highway-rail grade separation.

We have investigated the conditions at the crossing. We are satisfied the conditions are the same as described by the Petitioner in this docket. We do not oppose the proposed grade-separated crossing and consent to a decision by the commission without a hearing.

Dated at Tacoma , Washington, on the 26th day of
July , 2019.

Kyle Kellem

Printed name of Respondent



Signature of Respondent's Representative

Roadmaster

Title

253-377-3554 kkellem@cityoftacoma.org

Phone number and email address

2601 SR 509 North Frontage Road

Tacoma, WA 98421

Mailing address

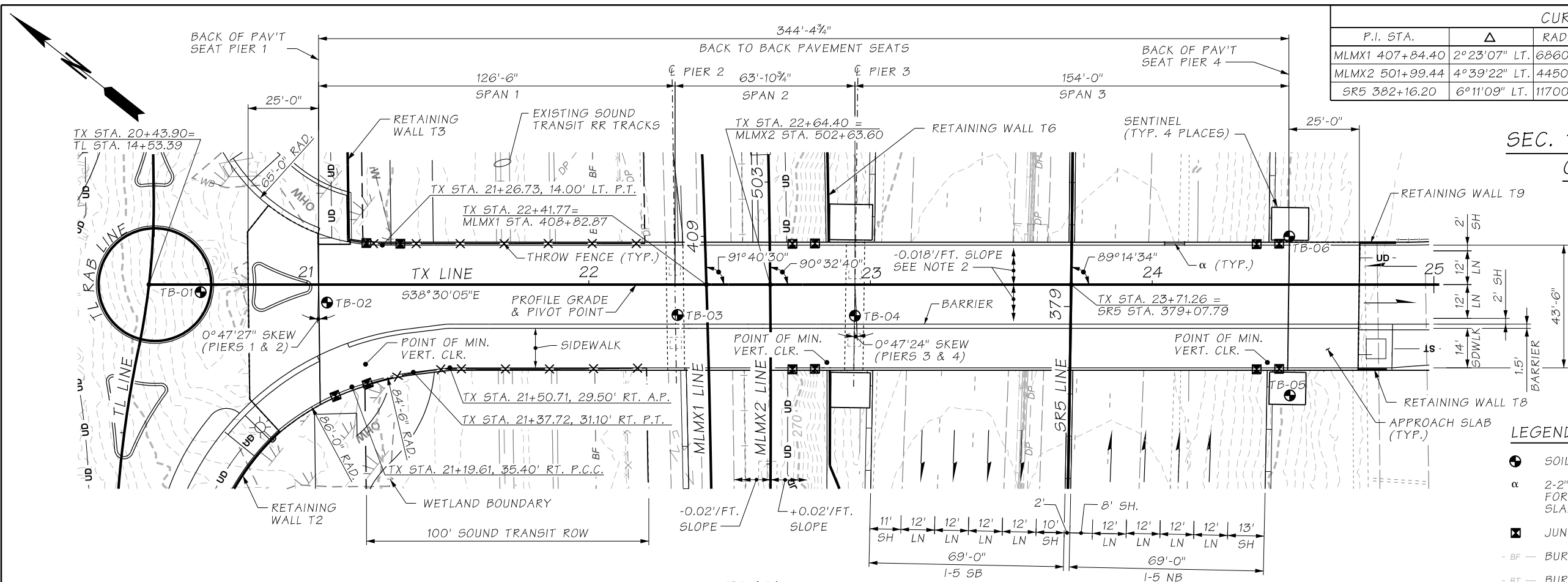
POINT OF MINIMUM VERTICAL CLEARANCE:
 OVER SR5: TX STA. 21+20.40 (28.27' RT.)
 OVER MLMX: TX STA. 22+84.58 (28.27' RT.)
 OVER SR5: TX STA. 24+40.86 (28.27' RT.)

BRIDGE WITH APPROACH FILLS
 WF50G/WF74G GIRDERS
 "A" DIMENSION = 11" SPAN 1, 9 1/4" SPAN 2 & 12" SPAN 3
 (PRELIMINARY, NOT FOR DESIGN)
 CAST-IN-PLACE CONC. SHALL BE 4000 PSI
 DECK PROTECTIVE SYSTEM 1 (EPOXY COATED REBARS)

CURVE DATA					
P.I. STA.	Δ	RADIUS	TANGENT	LENGTH	BACK TANGENT BRG.
MLMX1 407+84.40	2°23'07" LT.	6860.00'	142.81'	285.59'	N51°50'20"E
MLMX2 501+99.44	4°39'22" LT.	4450.00'	180.91'	361.62'	N54°06'35"E
SR5 382+16.20	6°11'09" LT.	11700.00'	632.19'	1263.15'	N53°50'30"E

SEC. 15/22, T.19N., R.2E., W.M.
 CITY OF LAKEWOOD

1-5



PLAN

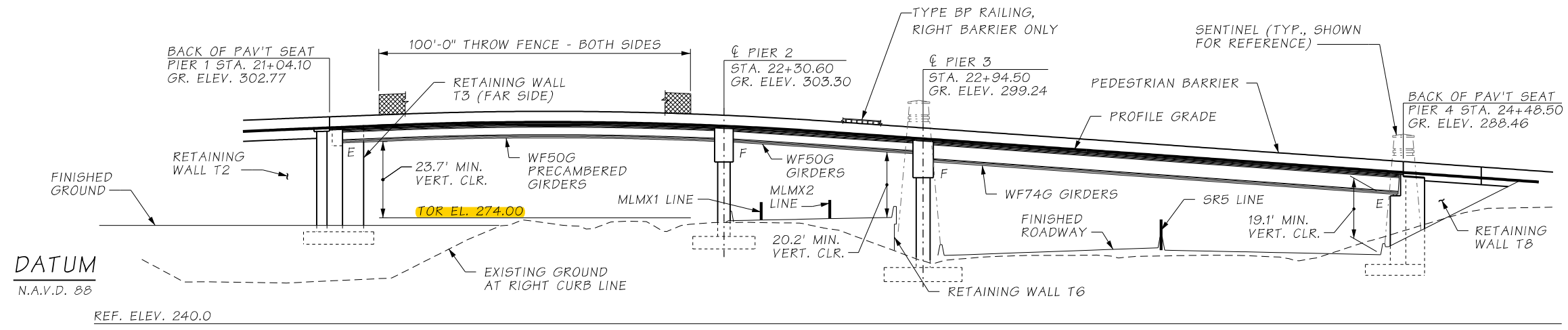
BEARING OF PIERS 1 AND 2 ARE N50°42'28"E,
 BEARING OF PIERS 3 AND 4 ARE N52°17'19"E

LEGEND

- SOIL BORING LOCATION
- α 2-2"Ø CONDUIT IN CURB OR TRAFFIC BARRIER FOR FULL LENGTH OF BRIDGE AND APPROACH SLABS
- ☒ JUNCTION BOX NEMA 4X S.S.
- BF - BURIED FIBER - EXISTING
- BT - BURIED TELEPHONE - EXISTING
- DP - DRAIN PIPE - EXISTING
- ST - STORM SEWER - EXISTING
- ST - STORM SEWER - PROPOSED
- UD - UNDERDRAIN - PROPOSED
- WB - WETLAND BOUNDARY - EXISTING
- X - FENCE - PROPOSED
- ⊙ LIGHT STANDARD - PROPOSED

NOTES:

1. APPLY MT. BAKER GRAY PIGMENTED SEALER TO ALL PERMANENTLY EXPOSED SURFACES OF PIERS 1 THROUGH 4 TO 1'-0" MINIMUM BELOW FINISHED GRADE. APPLY WASHINGTON GRAY PIGMENTED SEALER TO BARRIERS AND GIRDERS, SEE TYPICAL SECTIONS FOR LIMITS.
2. SEE ROADWAY PLANS FOR ROADWAY ELEVATIONS ON PIER 1 APPROACH SLAB. SEE SHEET BT002 FOR SUPERELEVATION TRANSITION FROM PIER 1 BACK OF PAVEMENT SEAT TO TX STATION 21+50.00.



ELEVATION

GRADE ELEVATIONS ARE FINISH GRADES AT TOP OF BRIDGE DECK ON TX LINE AND ARE EQUAL TO PROFILE GRADE

P.C. GIRDERS (WF50G/ WF74G)
 CONTINUOUS FOR LIVE LOAD
 LOADING: HL93

PRELIMINARY

NOT FOR CONSTRUCTION

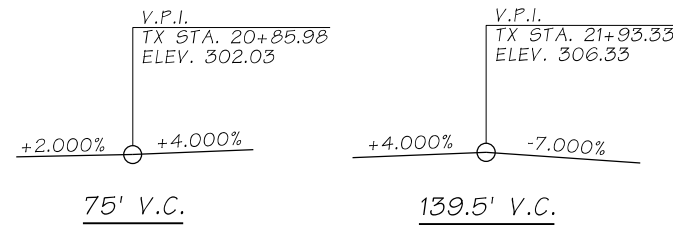
FILE NAME	c:\pwworking\jacobs_b\lcaywoocj\dms20633IPS_BT001.dgn			REGION NO.	STATE	FED.AID PROJ.NO.			I-5 STEILACOOM-DUPONT RD TO THORNE LN CORRIDOR IMPROVEMENTS MP 120.01 TO MP 124.45 THORNE HIGH BRIDGE	PLAN REF NO
TIME	9:17:51 AM			10	WASH					BT001
DATE	2/27/2019			JOB NUMBER					SHEET	
PLOTTED BY	caywoocj			CONTRACT NO.					OF	
DESIGNED BY	C. CAYWOOD			LOCATION NO.					SHEETS	
ENTERED BY	R. REISER									
CHECKED BY	A. FONG			REVISION	DATE	BY				
PROJ. ENGR.	C. MEADE			REV B - FINAL REVIEW	02/27/2019					
REGIONAL ADM.	J. WYNANDS			REV A - PRELIMINARY REVIEW	01/09/2019					

ATKINSON / JACOBS
 CONSTRUCTION

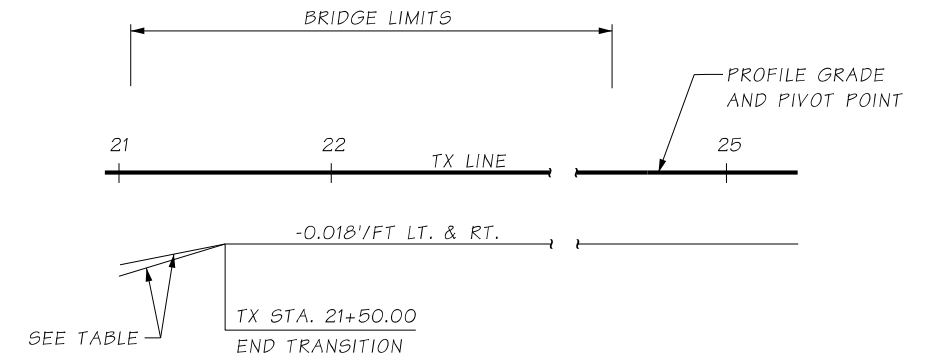
PLAN AND ELEVATION

GENERAL NOTES:

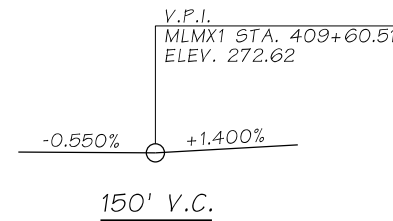
- ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2016, AND AMENDMENTS.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 8TH EDITION 2017. THIS STRUCTURE HAS BEEN DESIGNED FOR A 3" HMA FUTURE WEARING SURFACE.
- THE SEISMIC DESIGN OF THIS STRUCTURE HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2ND EDITION WITH INTERIM REVISIONS THROUGH 2015, AS MODIFIED BY THE WSDOT BRIDGE DESIGN MANUAL, JUNE 2017. THE SEISMIC DESIGN WAS PERFORMED USING THE FOLLOWING:
 SEISMIC DESIGN CATEGORY: C
 SITE CLASS: C
 PEAK GROUND ACCELERATION: 0.50G (SITE CLASS C)
 0.2 SECOND SPECTRAL ACCELERATION: 1.12G (SITE CLASS C)
 1.0 SECOND SPECTRAL ACCELERATION: 0.41G (SITE CLASS C)
- THE CONCRETE IN THE BRIDGE DECK SHALL BE CLASS 4000D. THE CONCRETE IN BRIDGE APPROACH SLABS SHALL BE CLASS 4000A. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- THE BACKFILL BEHIND THE ABUTMENTS MAY BE PLACED BEFORE OR AFTER PLACEMENT OF THE SUPERSTRUCTURE, IN ACCORDANCE WITH SECTION 2-03.3(14) OF THE STANDARD SPECIFICATIONS.
- UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2½" AT THE TOP OF THE BRIDGE DECK, 1" AT THE BOTTOM OF THE BRIDGE DECK, 3" AT THE BOTTOM OF FOOTINGS, AND 2" AT ALL OTHER LOCATIONS.
- FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDUE STRESS IN THE STRUCTURE.
- CONDUITS, JUNCTION BOXES, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE THESE PLANS WITH THE ELECTRICAL, I.T.S. AND OTHER CIVIL PLANS.



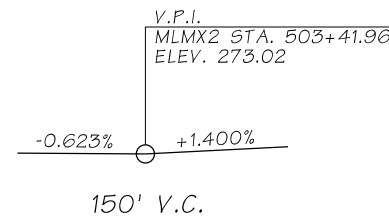
TX LINE PROFILE



TX LINE SUPERELEVATION DIAGRAM



MLMX1 LINE PROFILE



MLMX2 LINE PROFILE

STATION	LEFT	RIGHT
21+04.10*	-2.48%	-2.93%
21+10.00	-2.22%	-2.82%
21+20.00	-1.74%	-2.35%
21+30.00	-1.86%	-1.82%
21+40.00	-1.86%	-1.82%
21+50.00	-1.80%	-1.80%

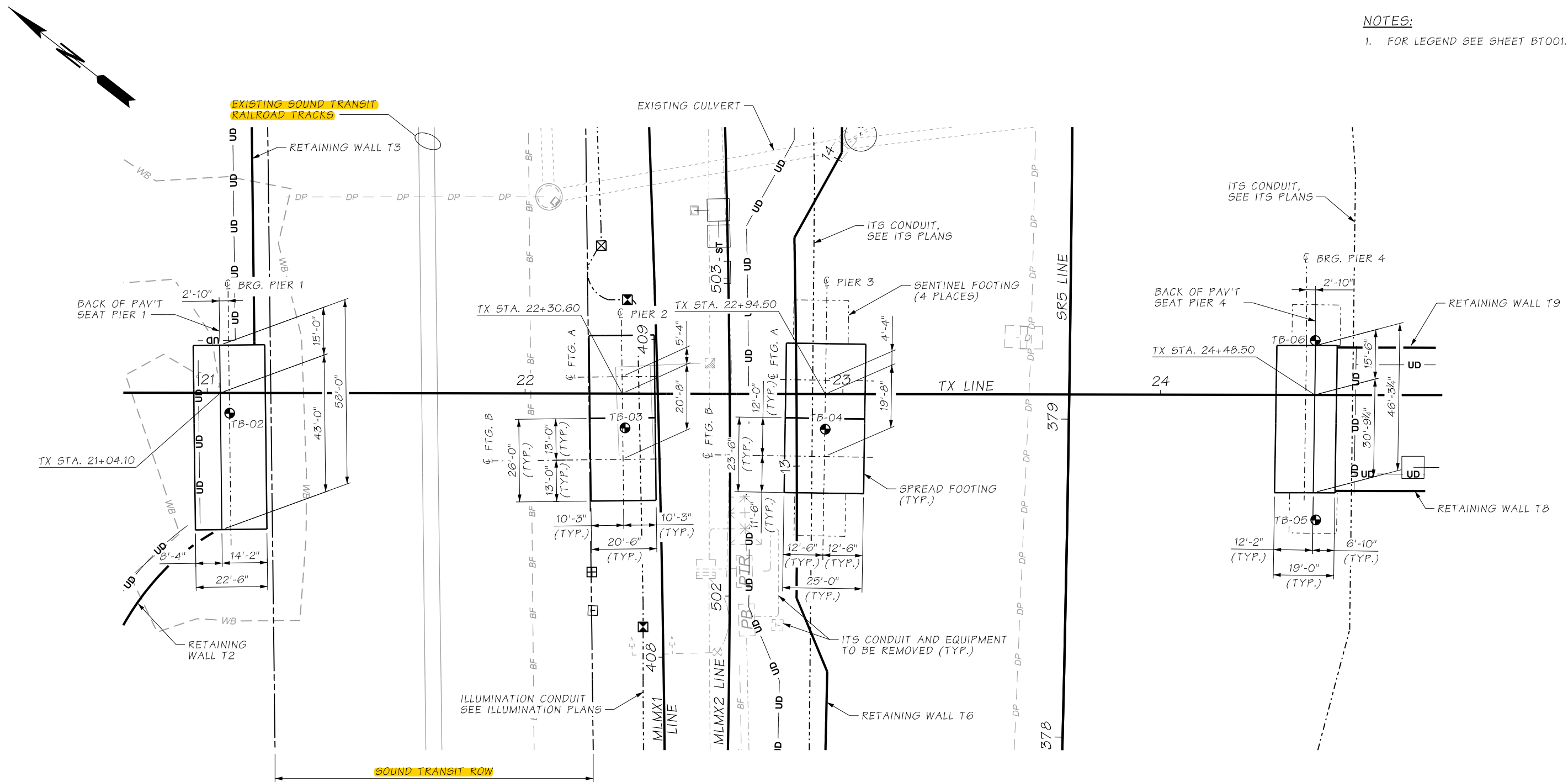
* SUPERELEVATIONS AT 21+04.10 ARE MEASURED ALONG BACK OF PAVEMENT SEAT.

PRELIMINARY

NOT FOR CONSTRUCTION

FILE NAME: c:\pwworking\jacobs_b\l\caywooc\j\dms20633\PS_BT002.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 STEILACOOM-DUPONT RD TO THORNE LN CORRIDOR IMPROVEMENTS MP 120.01 TO MP 124.45 THORNE HIGH BRIDGE	PLAN REF NO
TIME: 7:21:19 AM	DATE: 2/27/2019	10	WASH						BT002
PLOTTED BY: caywoocj	DESIGNED BY: C. CAYWOOD	JOB NUMBER		CONTRACT NO.		DATE P.E. STAMP BOX	DATE P.E. STAMP BOX		SHEET
ENTERED BY: R. REISER	CHECKED BY: A. FONG	REVISION		C8811					OF
PROJ. ENGR.: C. MEADE	REVISION: REV B - FINAL REVIEW	DATE: 02/27/2019	BY:	LOCATION NO.		DATE		GENERAL NOTES AND GEOMETRY	SHEETS
REGIONAL ADM.: J. WYNANDS	REVISION: REV A - PRELIMINARY REVIEW	DATE: 01/09/2019	BY:			DATE			

NOTES:
1. FOR LEGEND SEE SHEET BT001.





FOOTING PLAN

BEARING OF PIERS 1 AND 2 ARE N50°42'28"E,
BEARING OF PIERS 3 AND 4 ARE N52°17'19"E

PRELIMINARY

NOT FOR CONSTRUCTION

FILE NAME	c:\pwworking\jacobs_b&l\caywoocj\dms20633PS_BT004.dgn			REGION NO.	STATE	FED.AID PROJ.NO.			I-5 STEILACOOM-DUPONT RD TO THORNE LN CORRIDOR IMPROVEMENTS MP 120.01 TO MP 124.45 THORNE HIGH BRIDGE	PLAN REF NO
TIME	7:52:14 AM			10	WASH					BT004
DATE	2/27/2019									SHEET
PLOTTED BY	caywoocj									OF
DESIGNED BY	C. CAYWOOD									SHEETS
ENTERED BY	R. REISER									
CHECKED BY	A. FONG	REV B - FINAL REVIEW	02/27/2019							
PROJ. ENGR.	C. MEADE	REV A - PRELIMINARY REVIEW	01/09/2019							
REGIONAL ADM.	J. WYNANDS	REVISION	DATE	BY						

FOOTING PLAN