

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

**Washington State Department of  
Transportation**

\_\_\_\_\_  
Petitioner,

vs.

**Central Puget Sound Regional  
Transportation Authority and City of  
Lakewood**

\_\_\_\_\_  
Respondent

) DOCKET NO. TR-

)  
)  
) PETITION TO MODIFY A  
) HIGHWAY-RAIL GRADE  
) CROSSING  
) **Bridgeport Way SW**

) USDOT CROSSING # **085821P**  
) UTC CROSSING # **1L.60**  
)  
)

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.....  
The Petitioner asks the Washington Utilities and Transportation Commission to approve modification of a highway-rail grade crossing.

*Section 1 – Petitioner’s Information*

<b>Washington State Department of Transportation</b>
_____ Petitioner <b>310 North Maple Park Ave SE</b>
_____ Street Address <b>Olympia, WA 98504</b>
_____ City, State and Zip Code <b>PO Box 47387, Olympia, WA 98504-7387</b>
_____ Mailing Address, if different than the street address <b>Kevin Jeffers</b>
_____ Contact Person Name <b>360-705-7982; JefferK@wsdot.wa.gov</b>
_____ Contact Phone Number and E-mail Address

*Section 2 – Respondent's Information*

**Central Puget Sound Regional Transportation Authority ("Sound Transit")**

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Respondent

**401 South Jackson Street**

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Street Address

**Seattle, WA 98104-2826**

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City, State and Zip Code

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Mailing Address, if different than the street address

**Jodi Mitchell**

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Contact Person Name

**206-398-5080; Jodi.Mitchell@SoundTransit.org**

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Contact Phone Number and E-mail Address

*Section 3 – Current Crossing Information*

1. Railroad company(ies) \_\_\_\_\_  
• Tracks owned by: Sound Transit  
• Operating railroad: Tacoma Rail, BNSF
2. Type of railroad at crossing     Common Carrier     Logging     Industrial  
 Passenger     Excursion
3. Type of tracks at crossing     Main Line, number of tracks 1  
 Siding or Spur, number of tracks \_\_\_\_\_
4. Average daily train traffic, freight 2 per day (trains typically operate 4-5 days/week, max.)  
Authorized freight train speed 10 mph    Operated freight train speed 10 mph
5. Average daily train traffic, passenger 0  
Authorized passenger train speed N/A    Operated passenger train speed N/A

6. Describe current crossing configuration including type of train detection, active warning devices, preemption, etc.:

**There is currently a single-track crossing with cantilever-mounted flashing lights.**

**The existing detection circuitry is by conventional relay track circuit.**

**There is an existing median on the south side of the crossing, but the median ends approximately 50' short of the track. There is no median on the north side of the crossing.**

*Section 4 – Expected Crossing Characteristics After Modification*

1. Type of railroad operations at crossing     Common Carrier     Logging     Industrial

Passenger                     Excursion

2. Type of tracks at crossing     Main Line, number of tracks   2  

Siding or Spur, number of tracks       

3. Average daily train traffic, freight       2      

          Authorized freight train speed   40 mph      Operated freight train speed   40 mph  

4. Average daily train traffic, passenger      12     

          Authorized passenger train speed   79 mph      Operated passenger train speed   79 mph  

5. Will the modified crossing eliminate the need for one or more existing crossings?

          Yes        No   X  

6. If so, state the distance and direction from the modified crossing.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

7. Does the petitioner propose to close any existing crossings and if yes, which crossings?

          Yes        No   X  

\_\_\_\_\_

**Section 5 – Proposed Temporary Crossing**

1. Will a temporary crossing be installed?            Yes \_\_\_\_ No   X  

2. If so, describe the purpose of the crossing and the estimated time it will be needed

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. Will the petitioner remove the crossing at completion of the activity requiring the temporary crossing?            Yes \_\_\_\_ No \_\_\_\_ N/A

Approximate date of removal \_\_\_\_\_

**Section 6 – Current Highway Traffic Information**

1. Name of roadway/highway   Bridgeport Way SW  

2. Roadway classification   Arterial  

3. Road authority   City of Lakewood  

4. Average annual daily traffic (AADT)   23,330 (in year 2006)  

5. Number of lanes   2 NB through, 2 SB through  

6. Roadway speed   35mph  

7. Is the crossing part of an established truck route?            Yes   X   No \_\_\_\_

8. If so, trucks are what percent of total daily traffic?   2.9% (of peak hour)  

9. Is the crossing part of an established school bus route?    Yes   X   No \_\_\_\_

10. If so, how many school buses travel over the crossing each day?              239  

11. Describe any changes to the information in 1 through 7, above, expected within ten years:  
**AADT estimated to grow to 35,010 (in year 2020).**

*Section 7 – Alternatives to the Proposed Modifications*

1. Does a safer location for a crossing exist within a reasonable distance of the current or proposed location?      Yes \_\_\_\_\_      No X

2. If a safer location exists, explain why the crossing should not be located at that site.

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3. Are there any hillsides, embankments, buildings, trees, railroad loading platforms or other barriers in the vicinity which may obstruct a motorist's view of the crossing?

Yes X      No \_\_\_\_\_

4. If a barrier exists, describe:

- ◆ Whether petitioner can relocate the crossing to avoid the obstruction and if not, why not.
- ◆ How the barrier can be removed.
- ◆ How the petitioner or another party can mitigate the hazard caused by the barrier.

**Views are obstructed a buildings in the northwest, northeast, and southeast quadrants.**

**It is infeasible to relocate the buildings, and the existing street grid cannot accommodate a crossing at another location. The barriers to sight lines will be addressed with active warning devices (new cantilever-mounted flashing lights and crossing gates), as well as revised advance pre-emption timing at the intersection of Bridgeport Way SW and Pacific Highway SW. Medians on the south side of the track will be extended northward to reach closer to the track, while new medians will be constructed on the north side of the crossing.**

5. Is it feasible to construct an over-crossing or under-crossing at the proposed location as an alternative to an at-grade crossing?

Yes \_\_\_\_\_      No X

6. If an over-crossing or under-crossing is not feasible, explain why.

**The existing site is nearly flat, and is very close to an adjacent intersection, with several businesses in the vicinity. The grades required for the roadway approaches would not meet AASHTO guidelines for vertical curvature unless the street grid in this area were significantly reconfigured.**

7. Does the railway line, at any point in the vicinity of the modified crossing, pass over a fill area or trestle or through a cut where it is feasible to construct an over-crossing or an under-crossing, even though it may be necessary to relocate a portion of the roadway to reach that point?

Yes  No

8. If such a location exists, state:

- ◆ The distance and direction from the proposed crossing.
- ◆ The approximate cost of construction.
- ◆ Any reasons that exist to prevent locating the crossing at this site.

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9. Is there an existing public or private crossing in the vicinity of the proposed modified crossing?

Yes  No

10. If a crossing exists, state:

- ◆ The distance and direction from the proposed crossing.
- ◆ Whether it is feasible to divert traffic from the proposed to the existing crossing.

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**Section 8 – Sight Distance**

1. Complete the following table, describing the sight distance for motorists when approaching the tracks from either direction after modification. “Number of feet from proposed crossing” is measured from the crossing gate along the centerline of the “outside” lane. Sight distance is measured from the edge of traveled way (edge of fog line or curb line) along the CL of track at the crossing. NOTE - for “Left” sight distances, the edge of traveled way is on the *opposite* side of the roadway. The sightlines are restricted by the skew of the crossing. Because this is a skewed crossing, the table is based on sight distances available beginning at the crossing gate, and within a 90-degree range of vision either side of the roadway centerline. Significantly longer sight distances are available in the field if the range of vision is increased beyond 90-degrees.

a. Approaching the crossing from   NORTH  , the current approach provides an unobstructed view as follows: (North, South, East, West)

Direction of sight (left or right)	Number of feet from proposed crossing	Provides an unobstructed view for how many feet
Right	300	30
Right	200	40
Right	100	95
Right	50	800
Right	25	800
Left	300	65
Left	200	70
Left	100	75
Left	50	55
Left	25	20

b. Approaching the crossing from   SOUTH  , the current approach provides an unobstructed view as follows: (Opposite direction-North, South, East, West)

Direction of sight (left or right)	Number of feet from proposed crossing	Provides an unobstructed view for how many feet
Right	300	60
Right	200	60
Right	100	100
Right	50	200
Right	25	260
Left	300	95
Left	200	130
Left	100	100
Left	50	35
Left	25	0 (due to skew)

2. Will the modified crossing provide a level approach measuring 25 feet from the center of the railway on both approaches to the crossing?

Yes      No   X  

3. If not, state in feet the length of level grade from the center of the railway on both approaches to the crossing. **From the south, the grade is nearly level. From the north, the grade slopes down toward the crossing at approximately 0.65% for approximately 75 feet.**

4. Will the modified crossing provide an approach grade of not more than five percent prior to the level grade?



Yes  No

3. If not, state the percentage of grade prior to the level grade and explain why the grade exceeds five percent.

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*Section 9 – Illustration of Modified Crossing Configuration*

Attach a detailed diagram, drawing, map or other illustration showing the following:

- ◆ The vicinity of the modified crossing.
- ◆ Layout of the railway and highway 500 feet adjacent to the crossing in all directions.
- ◆ Percent of grade.
- ◆ Obstructions of view as described in Section 7 or identified in Section 8.
- ◆ Traffic control layout showing the location of the existing and proposed signage.

**Existing features (buildings, trees, etc) that are obstructions are shown on the accompanying plan in “screened” or “grayscale” lines.**

*Section 10 – Proposed Warning Signals or Devices*

1. Explain in detail the number and type of proposed automatic signals or other warning devices planned at the crossing, including a cost estimate for each. If the proposed modifications include adding or modifying preemption, contact UTC for the additional worksheets.

**Modifications to the existing warning devices include construction of new cantilevers and gates. Wayside horns will be provided. The existing track will be removed. Two new tracks will be constructed, one approximately 8' to the left of the existing track, and the other approximately 8' to the right of the existing track.**

**The control equipment for the railroad warning devices will be upgraded to modern constant warning time units, replacing the existing relay circuit. The new circuitry will allow for additional advanced pre-emption time. The interconnection between the grade crossing control equipment and the roadway signal traffic controller will be upgraded to a 6-wire supervisory configuration. The roadway authority can use 2 or 6 of these wires, depending upon their interconnection wiring preferences.**

**The approximate cost for crossing improvements at Bridgeport Way SW is \$433,000.**

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Provide any additional information supporting the proposal, including information such as the public benefits that would be derived from modifying the crossing as proposed.

**The single existing track will be removed and replaced with two new tracks.**

**New concrete crossing panels will be installed on both tracks, and the roadway repaved to match the elevation of the panels. The old tracks will be removed, and the medians made continuous in place of the old tracks.**

**A pre-signal is proposed for the southbound approach along Bridgeport Way SW. It will be timed with the signal at the intersection of Bridgeport Way SW and Pacific Highway SW such that the pre-signal turns red just prior to the signal at Pacific Highway SW turning red. This will help discourage queue formation at the tracks.**

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*Section 13 – Waiver of Hearing by Respondent*

**Waiver of Hearing**

The undersigned represents the Respondent in the petition to modify a highway-railroad grade crossing.

We have investigated the conditions at the crossing proposed for modification. We are satisfied the conditions are the same as described by the Petitioner in this docket. We agree the crossing be modified and consent to a decision by the commission without a hearing.

Dated at \_\_\_\_\_, Washington, on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Printed name of Respondent

\_\_\_\_\_  
Signature of Respondent's Representative

\_\_\_\_\_  
Title

\_\_\_\_\_  
Phone number and e-mail address

\_\_\_\_\_  
Mailing address

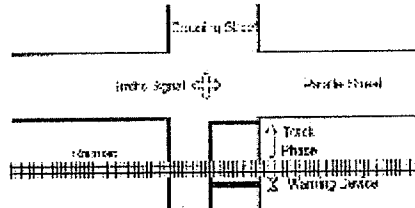
# GUIDE FOR DETERMINING TIME REQUIREMENTS FOR TRAFFIC SIGNAL PREEMPTION AT HIGHWAY-RAIL GRADE CROSSINGS



## GUIDE FOR DETERMINING TIME REQUIREMENTS FOR TRAFFIC SIGNAL PREEMPTION AT HIGHWAY-RAIL GRADE CROSSINGS

City Lake wood  
 County Pierce  
 District \_\_\_\_\_

Date 6/3/2008  
 Completed by Tony Wang  
 District Approval \_\_\_\_\_



Parallel Street Name  
Pacific Hwy SW  
 Crossing Street Name  
Bridgeport Way SW

Railroad Sound Transit (owner)  
 Crossing DOT# 0859219

Railroad Contact John Anderson  
 Phone 206-398-5000

### SECTION 1: RIGHT-OF-WAY TRANSFER TIME CALCULATION

#### Preempt verification and response time

- |  |    |          |                                 |
|--|----|----------|---------------------------------|
| 1. Preempt delay time (seconds) .....  | 1. | <u>0</u> | Remarks                         |
| 2. Controller response time to preempt (seconds) .....                       | 2. | <u>0</u> | Controller type: <u>Tap 890</u> |
| 3. Preempt verification and response time (seconds): add lines 1 and 2 ..... | 3. | <u>0</u> |                                 |

#### Worst-case conflicting vehicle time

- |   |    |             |         |
|---|----|-------------|---------|
| 4. Worst case conflicting vehicle phase number .....                          | 4. | <u>2</u>    | Remarks |
| 5. Minimum green time during right-of-way transfer (seconds) .....            | 5. | <u>60</u>   |         |
| 6. Other green time during right-of-way transfer (seconds) .....              | 6. | <u>0</u>    |         |
| 7. Yellow change time (seconds) .....   | 7. | <u>3.5</u>  |         |
| 8. Red clearance time (seconds) .....   | 8. | <u>2</u>    |         |
| 9. Worst-case conflicting vehicle time (seconds): add lines 5 through 8 ..... | 9. | <u>11.5</u> |         |

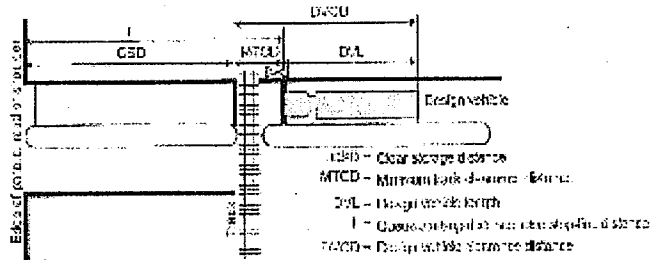
#### Worst-case conflicting pedestrian time

- |   |     |            |                |
|---|-----|------------|----------------|
| 10. Worst-case conflicting pedestrian phase number .....                            | 10. | <u>0</u>   | Remarks        |
| 11. Minimum walk time during right-of-way transfer (seconds) .....                  | 11. | <u>0</u>   | <u>omitted</u> |
| 12. Pedestrian clearance time during right of way transfer (seconds) .....          | 12. | <u>3.5</u> |                |
| 13. Vehicle yellow change time, if not included on line 12 (seconds) .....          | 13. | <u>2.0</u> |                |
| 14. Vehicle red clearance time, if not included on line 12 (seconds) .....          | 14. | <u>5.5</u> |                |
| 15. Worst-case conflicting pedestrian time (seconds): add lines 11 through 14 ..... | 15. | <u>5.5</u> |                |

#### Worst-case conflicting vehicle or pedestrian time

- |  |     |             |
|--|-----|-------------|
| 16. Worst-case conflicting vehicle or pedestrian time (seconds): maximum of lines 9 and 15 ..... | 16. | <u>11.5</u> |
| 17. Right-of-way transfer time (seconds): add lines 3 and 16 .....                               | 17. | <u>11.5</u> |

SECTION 2: QUEUE CLEARANCE TIME CALCULATION



		Remarks
18.	Clear storage distance (CSD), feet	210
19.	Minimum track clearance distance (MTCD), feet	83
20.	Design vehicle length (DVL), feet	67
21.	Queue start-up distance, S, (feet); add lines 18 and 19	293
22.	Time required for design vehicle to start moving (seconds); use formula as 2+(-20)	16.65
23.	Design vehicle clearance distance, DVCD (feet); add lines 19 and 20	150
24.	Time for design vehicle to accelerate through the DVCD (seconds)	17
25.	Queue clearance time (seconds); add lines 22 and 24	33.65

SECTION 3: MAXIMUM PREEMPTION TIME CALCULATION

		Remarks
26.	Right-of-way transfer time (seconds); line 17	11.5
27.	Queue clearance time (seconds); line 25	33.7
28.	Desired minimum separation time (seconds)	4.0
29.	Maximum preemption time (seconds); add lines 26 through 28	49.2

SECTION 4: SUFFICIENT WARNING TIME CHECK

		Remarks
30.	Required minimum time, MT (seconds); per regulations	20.0
31.	Clearance time, CT (seconds); get from railroad	4.0
32.	Minimum warning time, MWT (seconds); add lines 30 and 31	24.0
33.	Advance preemption time, APT, if provided (seconds); get from railroad	25.2
34.	Warning time provided by the railroad (seconds); add lines 32 and 33	49.2
35.	Additional warning time required from railroad (seconds); subtract line 34 from line 29, round up to nearest full second, enter 0 if less than 0	0

If the additional warning time required (line 35) is greater than zero, additional warning time has to be requested from the railroad. Alternatively, the maximum preemption time (line 29) may be decreased after performing an engineering study to investigate the possibility of reducing the values on lines 1, 5, 6, 7, 8, 11, 12, 13 and 14.

Remarks:



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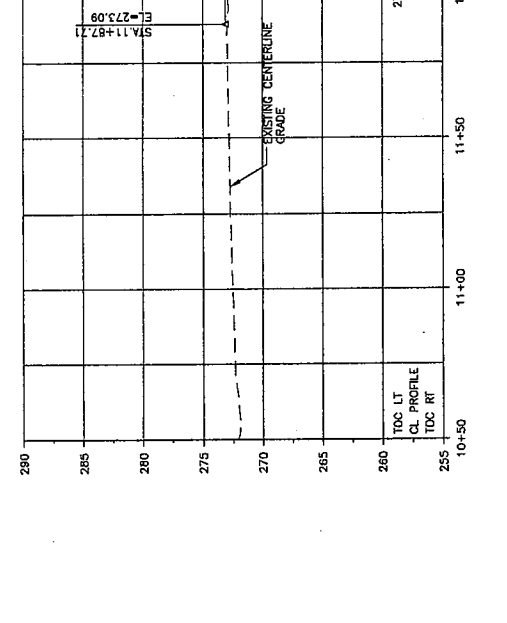
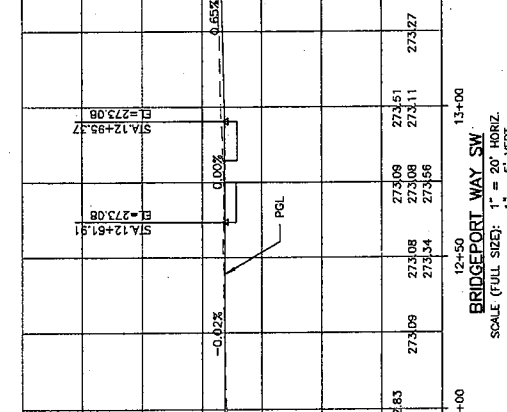
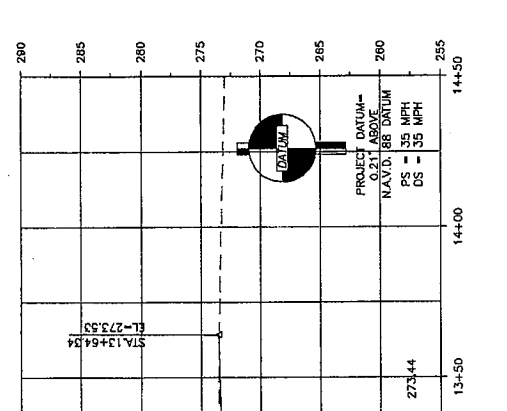
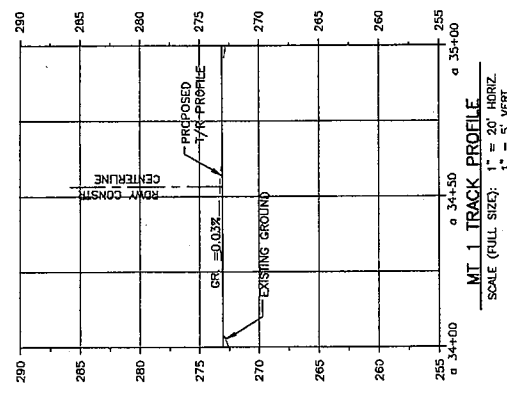
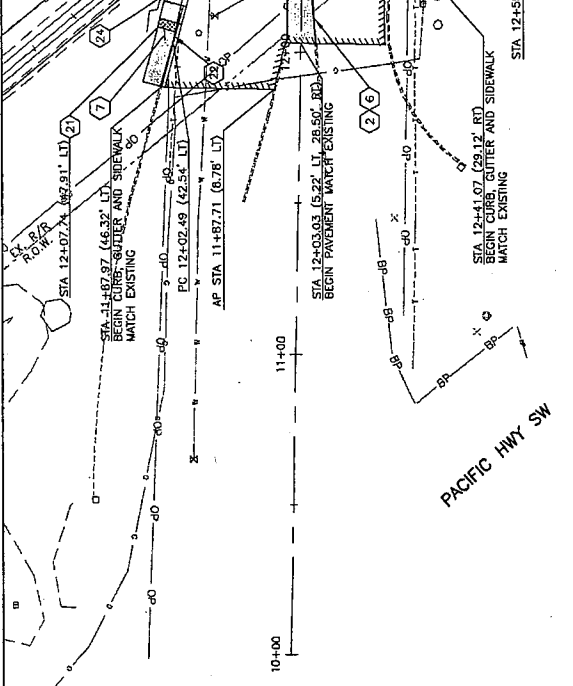


**GENERAL NOTES:**

1. SEE DRAWING R0125A FOR CONSTRUCTION NOTES AND ADDITIONAL GENERAL NOTES. SEE DETAILS ON DRAWING R0131A FOR CONSTRUCTION DETAILS.
2. PROPOSED FIBER OPTIC TO BE WITHIN 18" OF EXISTING GUTTER AND SIDEWALK. SEE AND END DRAWINGS FOR LOCATION OF FIBER OPTIC.
3. PROPOSED FIBER OPTIC TO BE WITHIN 18" OF EXISTING GUTTER AND SIDEWALK. SEE AND END DRAWINGS FOR LOCATION OF FIBER OPTIC.

PL STATION	DELTA	RADIUS	TANGENT LENGTH	S
STA 12+45.98 (31.23' LT)	14°29'1.87"	350.00'	44.94'	N/A
STA 13+06.58 (37.80' LT)				

PROPOSED 6"x6" SIGNAL BUNGALOW SEE NOTE 2  
 ROW 1 STA 12+45.98  
 ROW 2 STA 12+45.98



**MT 1 TRACK PROFILE**  
 SCALE (FULL SIZE): 1" = 20' HORIZ.  
 1" = 5' VERT.

**BRIDGEPORT WAY SW**  
 SCALE (FULL SIZE): 1" = 20' HORIZ.  
 1" = 5' VERT.

**BRIDGEPORT WAY SW**  
 SCALE (FULL SIZE): 1" = 20' HORIZ.  
 1" = 5' VERT.

FILE NAME	DATE	TIME	BY	DATE	BY
PD_R0125A.dwg	9/09/08	9:09pm	chilcox		
	May 08, 2008				
DESIGNED BY	ROH				
ENTERED BY	ROH				
CHECKED BY	CR				
APPROVED BY	BB				
REGIONAL, GENL.					

POINT DEFIANCE BYPASS PROJECT  
 100% PS&E SUBMITTAL  
 BRIDGEPORT WAY SW

ROADWAY PLAN AND PROFILE

**HDR**  
 ENGINEERING INC.

**SOUNDTRANSIT**

REVISION

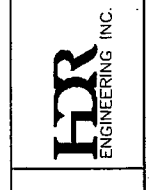
**ROADWAY CHANNELIZATION NOTES**

14. PAINTED TWO WAY LEFT TURN STRIP WITH RAISED PAVEMENT MARKERS PER C.O.T. CHANNELIZATION DETAILS. RAISED PAVEMENT MARKERS AND PAINT STRIPING STD. PLAN.
15. PAINTED 4" LANE STRIPE WITH RAISED PAVEMENT MARKERS PER C.O.T. CHANNELIZATION DETAILS. RAISED PAVEMENT MARKERS AND PAVEMENT STRIPING STD. PLAN.
21. PLASTIC PAVEMENT "ONLY" PER C.O.T. PLASTIC PAVEMENT "ONLY" STD. PLAN.
22. THERMOPLASTIC TRAFFIC ARROW PER C.O.T. TYPICAL THERMOPLASTIC TRAFFIC ARROW STD. PLAN.
40. PLASTIC TYPE D STOP BAR PER WSDOT STD. PLAN M-11.10-01.
41. PLASTIC TYPE D RAILROAD CROSSING SYMBOL PER WSDOT STD. PLAN M-11.10-01, WITH EXCEPTIONS TO STANDARD LAYOUT DIMENSIONS AS NOTED IN PLAN VIEW.
42. PLASTIC TYPE D EDGE LINE YELLOW PER WSDOT STD. SPECIFICATIONS.
43. PLASTIC TYPE D EDGE LINE WHITE PER WSDOT STD. SPECIFICATIONS. (NOT USED)
44. CITY OF LAKEWOOD DURABLE MARKING TRAFFIC ARROW TYPE ZSR PER WSDOT STD. PLAN N-24.40-01.
45. PLASTIC TYPE D CROSSWALK LINE PER WSDOT STD. PLAN M-15.10-01. (NOT USED)
46. PLASTIC TYPE D WIDE LINE PER WSDOT STD. SPECIFICATIONS. (NOT USED)
47. PLASTIC TYPE D DOUBLE YELLOW CENTER LINE PER WSDOT STD. SPECIFICATIONS. (NOT USED)
48. PLASTIC TYPE D LANE LINE PER WSDOT STD. SPECIFICATIONS. (NOT USED)
49. CITY OF LAKEWOOD DURABLE MARKING RAILROAD CROSSING SYMBOL PER WSDOT STD. PLAN M-11.10-01, WITH EXCEPTIONS TO STANDARD LAYOUT DIMENSIONS AS NOTED IN PLAN VIEW.
50. CITY OF LAKEWOOD DURABLE MARKING STOP BAR PER WSDOT STD. PLAN M-11.10-00.
51. CITY OF LAKEWOOD DURABLE MARKING TRAFFIC ARROW TYPE ZSL PER WSDOT STD. PLAN M-24.40-01.
52. CITY OF LAKEWOOD DURABLE MARKING TRAFFIC LETTERS "ONLY", DIMENSIONS PER WSDOT STD. SPECIFICATIONS.
53. CITY OF LAKEWOOD DURABLE MARKING EDGE LINE YELLOW, DIMENSIONS PER WSDOT STD. SPECIFICATIONS.
54. CITY OF LAKEWOOD DURABLE MARKING 24" STOP BAR PER CITY OF LAKEWOOD STD. PLAN CH-1.
55. PLASTIC TYPE D TRAFFIC ARROW TYPE ZSL PER WSDOT STD. PLAN M-24.40-01. (NOT USED)
56. PLASTIC TYPE D TRAFFIC LETTERS "ONLY" PER WSDOT STD. SPECIFICATIONS. (NOT USED)
57. CITY OF LAKEWOOD DURABLE MARKING BICYCLE LANE SYMBOL PER WSDOT STD. PLAN M-9.50-01.
58. CITY OF LAKEWOOD DURABLE MARKING EDGE LINE WHITE, DIMENSIONS PER WSDOT STD. SPECIFICATIONS.
59. CITY OF LAKEWOOD DURABLE MARKING WIDE LINE, DIMENSIONS PER WSDOT STD. SPECIFICATIONS.
60. CITY OF LAKEWOOD DURABLE MARKING DOUBLE YELLOW CENTER LINE, DIMENSIONS PER WSDOT STD. SPECIFICATIONS.
61. TYPE 1 AND 2 RPM DOUBLE YELLOW CENTER LINE PER WSDOT STD. PLAN M-20.50.01. (NOT USED)
62. RAISED PAVEMENT MARKER TYPE 1Y DOUBLE YELLOW CENTER LINE PER WSDOT STD. PLAN M-20.50-01. (NOT USED)
63. RAISED PAVEMENT MARKER TYPE 1W AND LANE LINE PER DETAIL SHEET RDDET112A.
64. RAISED PAVEMENT MARKER TYPE 1Y AND TWO WAY LEFT TURN LINE PER DETAIL SHEET RDDET112A.
65. PLASTIC TYPE D TRAFFIC ARROW TYPE ZSL, DIMENSIONS PER WSDOT STD. PLAN M-24.40-01. LAYOUT PER LANE REDUCTION DETAIL ON SHEET RDDET118A. (NOT USED)
66. PLASTIC TYPE D TRAFFIC ARROW TYPE ZSR PER WSDOT STD. PLAN M-24.40-01. (NOT USED)
67. CITY OF LAKEWOOD DURABLE MARKING CROSSWALK PER CITY OF LAKEWOOD STD. PLAN CH-1.
68. CITY OF LAKEWOOD DURABLE MARKING LANE LINE PER SPECIFICATION SECTION 01800. REVISIONS TO WSDOT STD. SPECIFICATION 9-22 AND 9-30. DIMENSIONS PER WSDOT STD. SPECIFICATIONS.
69. PLASTIC TYPE D STOP LINE PER WSDOT STD. PLAN M-15.10-01. (NOT USED)
70. PAINT TOP AND EXPOSED SIDES OF CURB YELLOW, WITH GLASS BEADS, PER SPECIFICATION SECTION 01800.

**GENERAL NOTES - ROADWAY CHANNELIZATION**

1. ALL UNITS ARE IN FEET UNLESS OTHERWISE SPECIFIED.

FILE NAME	PD_ROCHCVA.dwg	REVISION	DATE	BY
TIME	10:25am			
DATE	MAY 09, 2008			
DESIGNED BY	SPILLER			
CHECKED BY	BOH			
PROJECT NO.	00000000			
CONTRACT NO.	00000000			
REGIONAL ADM.				



POINT DEFIANCE BYPASS PROJECT  
100% PS&E SUBMITTAL  
ROADWAY CHANNELIZATION NOTES

ROCHCVA
SHEET
1
OF
1
ROADWAY CHANNELIZATION NOTES



