



WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

City of Tacoma, Public Works Department,  
Tacoma Rail Mountain Division  
Petitioner,

vs.

Pierce County Planning & Public Works  
Respondent.

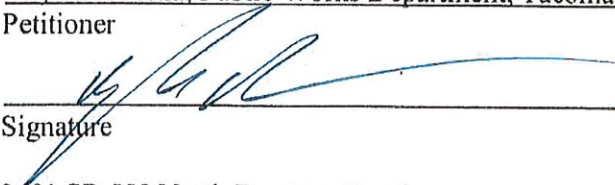
DOCKET NO. TR-

PETITION TO MODIFY A  
HIGHWAY-RAIL GRADE  
CROSSING

USDOT CROSSING NO.:397-135D

The Petitioner asks the Washington Utilities and Transportation Commission to approve modification of a highway-rail grade crossing under RCW 81.53.060. Modifications can include constructing supplemental safety measures such as median barriers, realigning highway or railroad tracks, widening highways, constructing multiple tracks, or changes to crossing surfaces that alter the dimensions of an existing surface, the angle at which the tracks intersect a highway, or the vertical alignment of a crossing (i.e., to accommodate track super-elevation, or changes in railroad or roadway grade).

*Section 1 – Petitioner’s Information*

<u>City of Tacoma, Public Works Department, Tacoma Rail Mountain Division</u> Petitioner
 Signature
<u>2601 SR 509 North Frontage Road</u> Street Address
<u>Tacoma, WA 98421</u> City, State and Zip Code
 Mailing Address, if different than the street address
<u>Kyle Kellem</u> Contact Person Name
<u>253-377-3554                      kkellem@cityoftacoma.org</u> Contact Phone Number and E-mail Address

**Section 2 – Respondent's Information**

Pierce County Planning & Public Works Respondent
4301 South Pine Street, Suite 600 Street Address
Tacoma, WA 98409 City, State and Zip Code
Mailing Address, if different than the street address
Brian D. Stacy, P.E., County Engineer Contact Person Name
253-798-7257                      bstacy@co.pierce.wa.us Contact Phone Number and E-mail Address

**Section 3 – Crossing Location**

1. Existing highway/roadway	Canyon Road East	
2. Existing railroad	Tacoma Rail – Mountain Division	
3. GPS location	47° 05' 34" N 122° 21' 25" W	
4. Railroad mile post (nearest tenth)	MP 13.2C	
5. City	Frederickson	Pierce County

**Section 4 – Railroad Information**

1. Railroad company	<u>Tacoma Rail – Mountain Division</u>		
2. Type of railroad at crossing	<input checked="" type="checkbox"/> Common Carrier	<input type="checkbox"/> Logging	<input type="checkbox"/> Industrial
	<input type="checkbox"/> Passenger	<input type="checkbox"/> Excursion	
3. Type of tracks at crossing	<input checked="" type="checkbox"/> Main Line	<input type="checkbox"/> Siding or Spur	
4. Number of tracks at crossing	<u>1</u>		
5. Average daily train traffic, freight	<u>10 per week</u>		
	Authorized freight train speed <u>10 MPH</u>	Operated freight train speed	<u>10 MPH</u>
6. Average daily train traffic, passenger	<u>0</u>		
	Authorized passenger train speed _____	Operated passenger train speed	_____

**Section 5 – Proposed Temporary Crossing**

1. Will a temporary crossing be installed?	Yes _____	No <u>X</u>
2. If so, describe the purpose of the crossing and the estimated time it will be needed	<hr/> <hr/> <hr/>	
3. Will the petitioner remove the crossing at completion of the activity requiring the temporary crossing?	Yes _____	No _____
	Approximate date of removal	_____

*Section 6 – Current Highway Traffic Information*

1. Name of roadway/highway Canyon Road East

2. Roadway classification Major Arterial (Pierce County), Urban Principle Arterial (Federal)

3. Road authority Pierce County Planning & Public Works

4. Average annual daily traffic (AADT) 23,400 (2015)

5. Number of lanes 4

6. Roadway speed 45 mph

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

8. If so, trucks are what percent of total daily traffic? 11.2 %

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

10. If so, how many school buses travel over the crossing each day? 135\*

11. Describe any changes to the information in 1 through 10, above, expected within ten years:  
      

\* Bethel School District bus garage is located 0.9 miles south of crossing.

*Section 7 – Proposed Crossing Modification*

1. Please provide a detailed description of the proposed changes to the crossing. Describe the justification for the proposed changes as well as the effects of proposed changes on warning devices, advance warning signs, pavement markings, etc.

Warning Devices – No change

Advance warning signs – No change

Replace the existing cement concrete panel rail crossing with an asphalt concrete crossing to accommodate the planned 2018 widening of Canyon Road East south of this rail crossing. The widened roadway will match the existing roadway widths north and south of the rail crossing. The roadway widening project will include the construction of curb and gutter, sidewalks meeting ADA requirements, storm drainage piping and treatment facilities, street lighting, and a new traffic signal at 184<sup>th</sup> Street East.

Pavement Markings – new railroad crossing pavement markings will be added as part the roadway widening project.

**Section 8 – Sight Distance**

1. Complete the following table, describing the sight distance for motorists when approaching the tracks from either direction after modification.

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	57
Right	200	65
Right	100	120
Right	50	800
Right	25	800
Left	300	48
Left	200	53
Left	100	64
Left	50	90
Left	25	800

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	750
Right	200	800
Right	100	800
Right	50	800
Right	25	800
Left	300	162
Left	200	197
Left	100	800
Left	50	800
Left	25	800

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 X No     

3. If not, state in feet the length of level grade from the center of the railway on both approaches to the crossing. \_\_\_\_\_

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

Yes X No

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

---

---

---

---

*Section 9 – Illustration of Modified Crossing Configuration*

Attach a detailed diagram, construction plans, drawings, 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 identified in Section 8.
- ◆ Traffic control layout showing the location of the existing and proposed signage.

Section 10 – Waiver of Hearing by Respondent

**Waiver of Hearing**

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

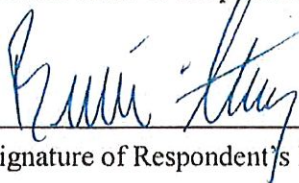
USDOT Crossing No.: 397-135D

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 Tacoma, Washington, on the 11<sup>th</sup> day of  
December, 20 17.

Brian Stacy, P.E., County Engineer

Printed name of Respondent



Signature of Respondent's Representative

County Engineer

Title

253-798-7257      bstacy@co.pierce.wa.us  
Phone number and e-mail address

4301 South Pine Street, Suite 600

Tacoma, WA 98409

Mailing address



CANYON ROAD EAST  
CRP 5666



DESIGNED BY:	C. HENRY, P.E.	REVISION NO.:	
CHECKED BY:	C. HENRY, P.E.	DATE:	
APPROVED BY:	S. WINTER	DATE:	
DESIGNED BY:	R. CRIVELLO, P.E.	DATE:	

NO.	DATE	REVISION	BY	APPROVED

NO.	DATE	REVISION	BY	APPROVED

NO.	DATE	REVISION	BY	APPROVED

**Pierce County**  
 Planning & Public Works  
 Office of the County Engineer  
 Tacoma Main Office Building  
 4000 Pacific Avenue, Room 638  
 Tacoma, Washington 98409  
 An AIAWA Accredited Agency



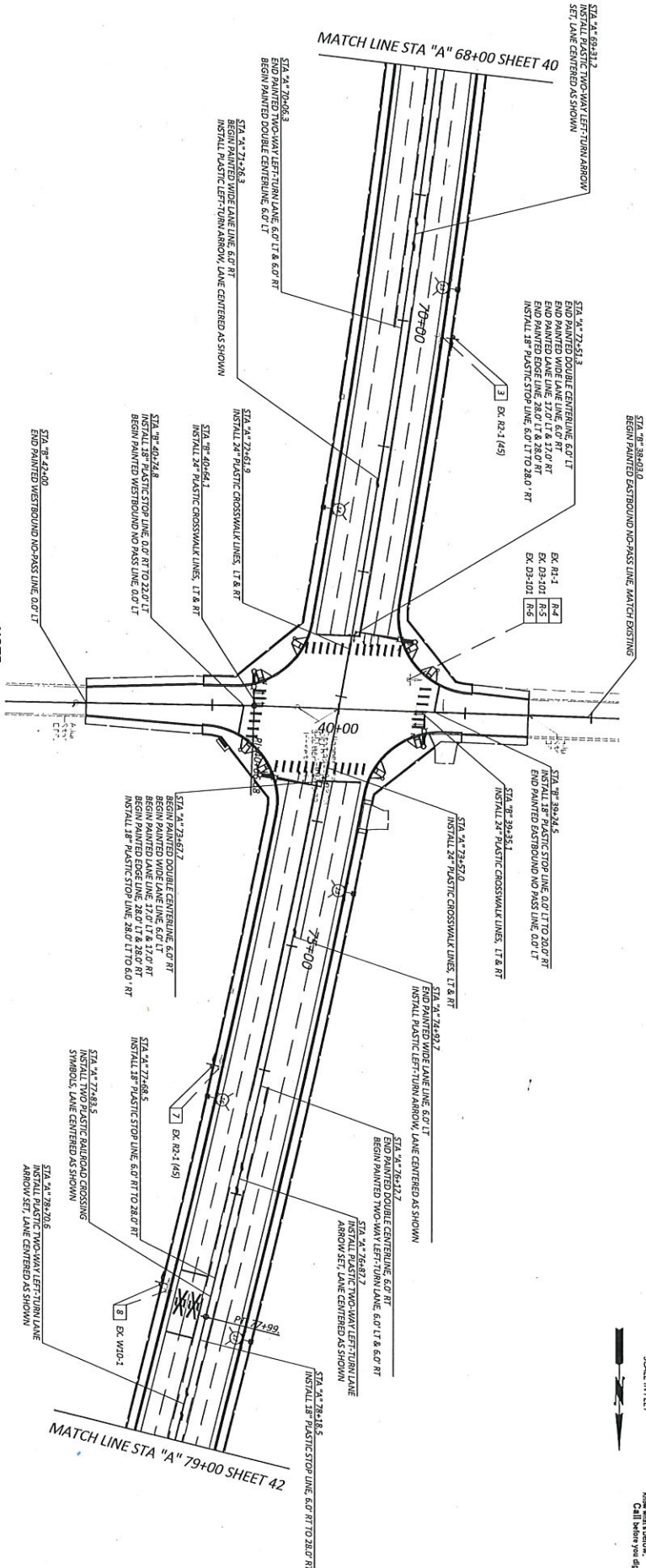
Office of the County Engineer  
 APPROVED BY:  
 BRIAN D. STACY, P.E.  
 ADRIAN A. GRANLEY, P.E. PROJ. COORD.  
 COURTNEY BARNES, ENGINEER

**CANYON ROAD EAST  
 197 STREET EAST TO FREDERICKSON INDUSTRIAL  
 PARK ROAD EAST  
 CHANNELIZATION AND SIGNING PLAN  
 CRP 5666**

NO.	DESCRIPTION	SIGN CODE	APPROX. EST. LOCATION	APPROX. RELOCATED LOCATION	COMMENT
3	SPEED LIMIT	R2-1 (45)	STA. 78+02.1 (L&T) LT	STA. 78+02.2 (L&T) LT	RELOCATE AT SIGNAL TURN ON
R-4	STOP SIGN	R1-1	STA. 78+27.3 (R&L) RT	STA. 78+27.3 (R&L) RT	RELOCATE AT SIGNAL TURN ON
R-5	STREET NAME	05-101	STA. 78+27.3 (R&L) RT	STA. 78+27.3 (R&L) RT	RELOCATE AT SIGNAL TURN ON
R-6	STREET NAME	05-101	STA. 78+27.3 (R&L) RT	STA. 78+27.3 (R&L) RT	RELOCATE AT SIGNAL TURN ON
7	SPEED LIMIT	R2-1 (45)	STA. 78+06.8 (L&T) LT	STA. 78+06.8 (L&T) LT	RELOCATE
8	WIDE LANE CROSSING	W10-1	STA. 78+02.1 (L&T) LT	STA. 78+02.1 (L&T) LT	RELOCATE

**NOTE:**  
 AFTER PRELIMINARY SPOTTING AND BEFORE APPLICATION, NOTIFY CONTRACTING AGENCY 5 DAYS IN ADVANCE FOR FIELD APPROVAL.  
 REFER TO PIERCE COUNTY STANDARD DRAWINGS "K" SERIES FOR TRAFFIC CONTROL  
 REFER TO PIERCE COUNTY STANDARD DRAWINGS "H" SERIES FOR APPLICABLE SIGNS AND MARKINGS DETAILS

LEGEND	DESCRIPTION
---	EXISTING LANE LINE
---	EXISTING WIDE LANE LINE
---	EXISTING EDGE LINE
---	EXISTING STOP LINE
---	LANE LINE
---	WIDE LANE LINE
---	EDGE LINE
---	STOP LINE
---	TURN ARROW MARKING
+	NEW TRAFFIC SIGN AND POST
+	EXISTING SIGN AND POST
+	SIGN REMOVAL NOTE
+	EXISTING LOCATION
+	NEW LOCATION
+	MAINTAIN SIGN AND POST
+	EXISTING CROSSWALK LINE



REGION NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	WASH.		41	47



DESIGNED BY: C. HENRY, P.E.	STAMPED BY: G. OLSZALIT
CHECKED BY: S. WINTER	DATE SUBMITTED: APRIL 2015
APPROVED BY: B. SHINDLER, P.E.	DATE FOR REVIEW: November 21, 2017

NO.	DATE	REVISION

NO.	DATE	REVISION

NO.	DATE	REVISION

**Pierce County**  
 Planning & Public Works  
 Office of the County Engineer  
 Tacoma Mail Order Building  
 13000 Washington 98429  
 An ADWA Accredited Agency

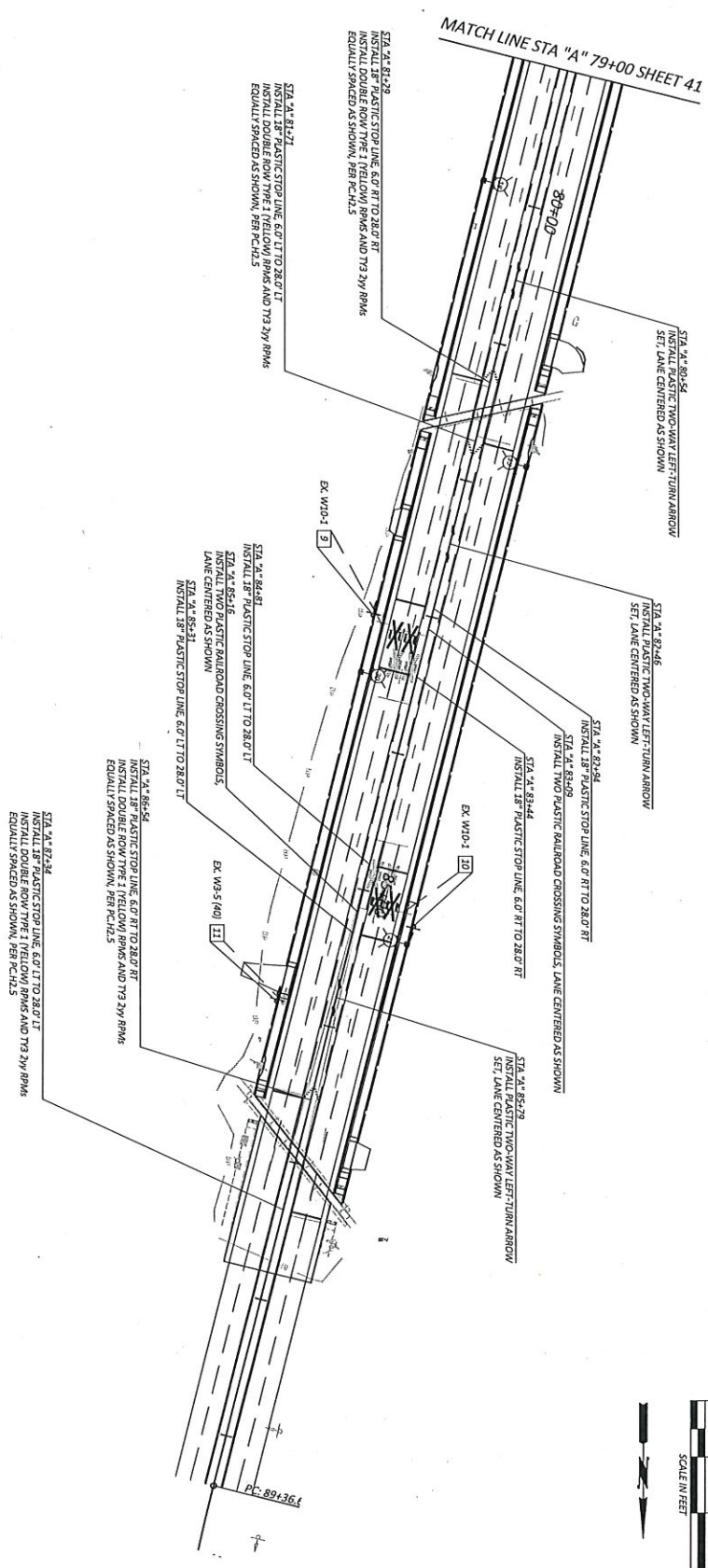
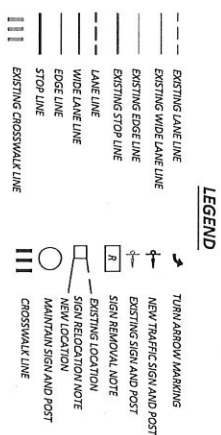


Office of the County Engineer  
 Approved by:  
 BRIAN D. STACY, P.E.  
 COUNTY PUBLIC ENGINEER

**CANYON ROAD EAST TO FREDERICKSON INDUSTRIAL PARK ROAD EAST**  
**CHANNELIZATION AND SIGNING PLAN**  
 CRP 5666

NO.	DESCRIPTION	SECTION	APPROX. START LOCATION	APPROX. END LOCATION	COMMENT
9	RAIL CROSSING	W3-1	STA. 74+82.42 (103.7' RT)	STA. 74+82.42 (103.7' RT)	RELOCATE
10	RAIL CROSSING	W3-1	STA. 74+82.42 (103.7' RT)	STA. 74+82.42 (103.7' RT)	RELOCATE
11	RAIL CROSSING	W3-1 (RM)	STA. 74+82.42 (103.7' RT)	STA. 74+82.42 (103.7' RT)	RELOCATE

**NOTE:**  
 AFTER PRELIMINARY SPOTTING AND BEFORE APPLICATION, NOTIFY CONTRACTING AGENCY 5 DAYS IN ADVANCE FOR FIELD APPROVAL.  
 REFER TO PIERCE COUNTY STANDARD DRAWINGS "K" SERIES FOR TRAFFIC CONTROL  
 REFER TO PIERCE COUNTY STANDARD DRAWINGS "H" SERIES FOR APPLICABLE SIGNS AND MARGINS DETAILS



40 0 40 80  
 SCALE IN FEET  
  
 811  
 See notes on sheet 42 for details  
 Call before you dig

REGION NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	WASH.		42	42

# CANYON ROAD EAST

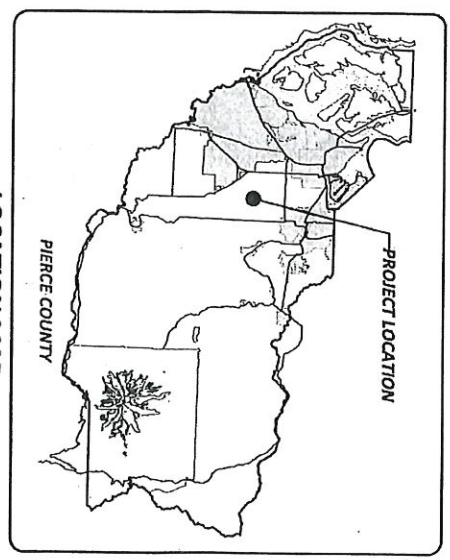
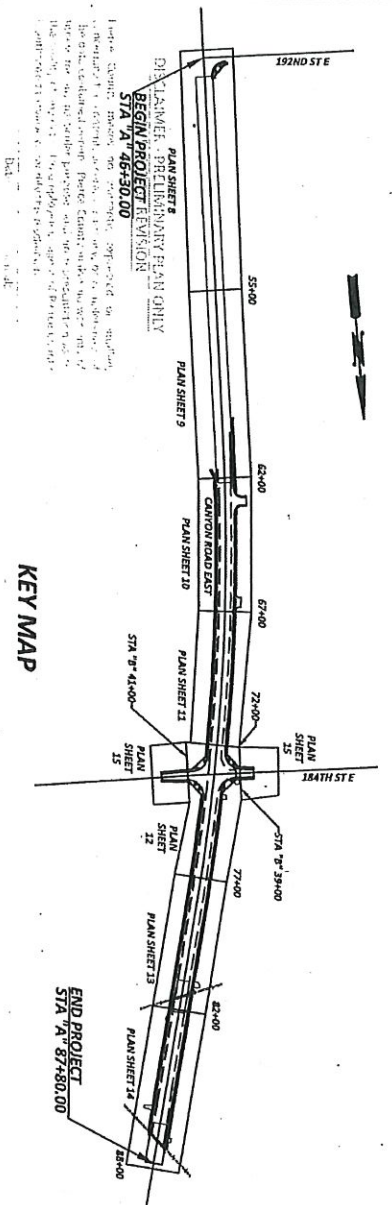
## 192ND STREET EAST TO FREDERICKSON INDUSTRIAL PARK ROAD EAST CRP 5666

### PROJECT PLANS

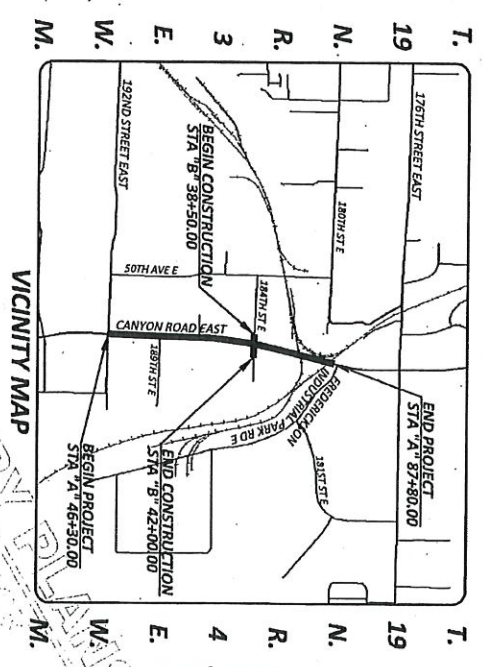
**COVER SHEET**

SUMMARY OF QUANTITIES	1	DRIVEWAY PROFILES	22
STRUCTURE NOTES	2	DRAINAGE DETAILS	23 - 25
QUANTITY TABULATION	3 - 4	PAVING PLAN	26 - 28
ROADWAY SECTIONS	5	STORMWATER POLLUTION PREVENTION PLAN	29 - 31
PLAN AND PROFILE	6 - 7	TRAFFIC SIGNAL SYSTEM	32
INTERSECTION PLAN	8 - 15	WIRING DIAGRAM	33
DRIVEWAY APPROACH SCHEDULE	16 - 20	POLE SHEET	34
	21	ILLUMINATION AND INTERCONNECT SYSTEM	35 - 38
		CHANNELIZATION AND SIGNING PLAN	39 - 42

#### INDEX



#### LOCATION MAP



#### VICINITY MAP

<b>DRAWN BY:</b> C. LAZAR	<b>ROAD NO.:</b> 192ND STREET EAST	<b>NO.:</b>	<b>DATE:</b>
<b>DESIGNED BY:</b> L. SANDVOB	<b>STARTED BY:</b> G. BOSSHAUT	<b>NO.:</b>	<b>DATE:</b>
<b>CHECKED BY:</b> R. SCHEIDTKE, P.E.	<b>DATE STARTED:</b> APRIL 2016	<b>NO.:</b>	<b>DATE:</b>
<b>REVIEWED BY:</b> P. MANDRIKIAN, P.E.	<b>DATE FINISHED:</b> NOVEMBER 15, 2017	<b>NO.:</b>	<b>DATE:</b>

<b>PIERCE COUNTY</b> Planning & Public Works Office of the County Engineer Tacoma Mail Office Building 400 West 14th Street, Suite 428 Tacoma, Washington 98409 As/Plum Accredited Agency	
---	--

Office of the County Engineer AMANDA D. STANTZ, P.E. Tacoma Mail Office Building 400 West 14th Street, Suite 428 Tacoma, Washington 98409 DAME	
---	--

REGION NO.	STATE	FEDERAL AND PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	WASH.		7	



**CANYON ROAD EAST  
 192ND STREET EAST TO  
 FREDERICKSON INDUSTRIAL PARK ROAD EAST**

**COVER SHEET**

**CRP 5666**

DESIGNED BY: L. J. ANDERSON	DATE PLOTTED: November 15, 2017
CHECKED BY: R. SCHWARTZ, P.E.	DATE PLOTTED: November 15, 2017
APPROVED BY: R. M. ANDERSON, P.E.	

DESIGNED BY: L. J. ANDERSON	DATE PLOTTED: November 15, 2017
CHECKED BY: R. SCHWARTZ, P.E.	DATE PLOTTED: November 15, 2017
APPROVED BY: R. M. ANDERSON, P.E.	

DESIGNED BY: L. J. ANDERSON	DATE PLOTTED: November 15, 2017
CHECKED BY: R. SCHWARTZ, P.E.	DATE PLOTTED: November 15, 2017
APPROVED BY: R. M. ANDERSON, P.E.	

DESIGNED BY: L. J. ANDERSON	DATE PLOTTED: November 15, 2017
CHECKED BY: R. SCHWARTZ, P.E.	DATE PLOTTED: November 15, 2017
APPROVED BY: R. M. ANDERSON, P.E.	

DESIGNED BY: L. J. ANDERSON	DATE PLOTTED: November 15, 2017
CHECKED BY: R. SCHWARTZ, P.E.	DATE PLOTTED: November 15, 2017
APPROVED BY: R. M. ANDERSON, P.E.	

DESIGNED BY: L. J. ANDERSON	DATE PLOTTED: November 15, 2017
CHECKED BY: R. SCHWARTZ, P.E.	DATE PLOTTED: November 15, 2017
APPROVED BY: R. M. ANDERSON, P.E.	

DESIGNED BY: L. J. ANDERSON	DATE PLOTTED: November 15, 2017
CHECKED BY: R. SCHWARTZ, P.E.	DATE PLOTTED: November 15, 2017
APPROVED BY: R. M. ANDERSON, P.E.	

DESIGNED BY: L. J. ANDERSON	DATE PLOTTED: November 15, 2017
CHECKED BY: R. SCHWARTZ, P.E.	DATE PLOTTED: November 15, 2017
APPROVED BY: R. M. ANDERSON, P.E.	

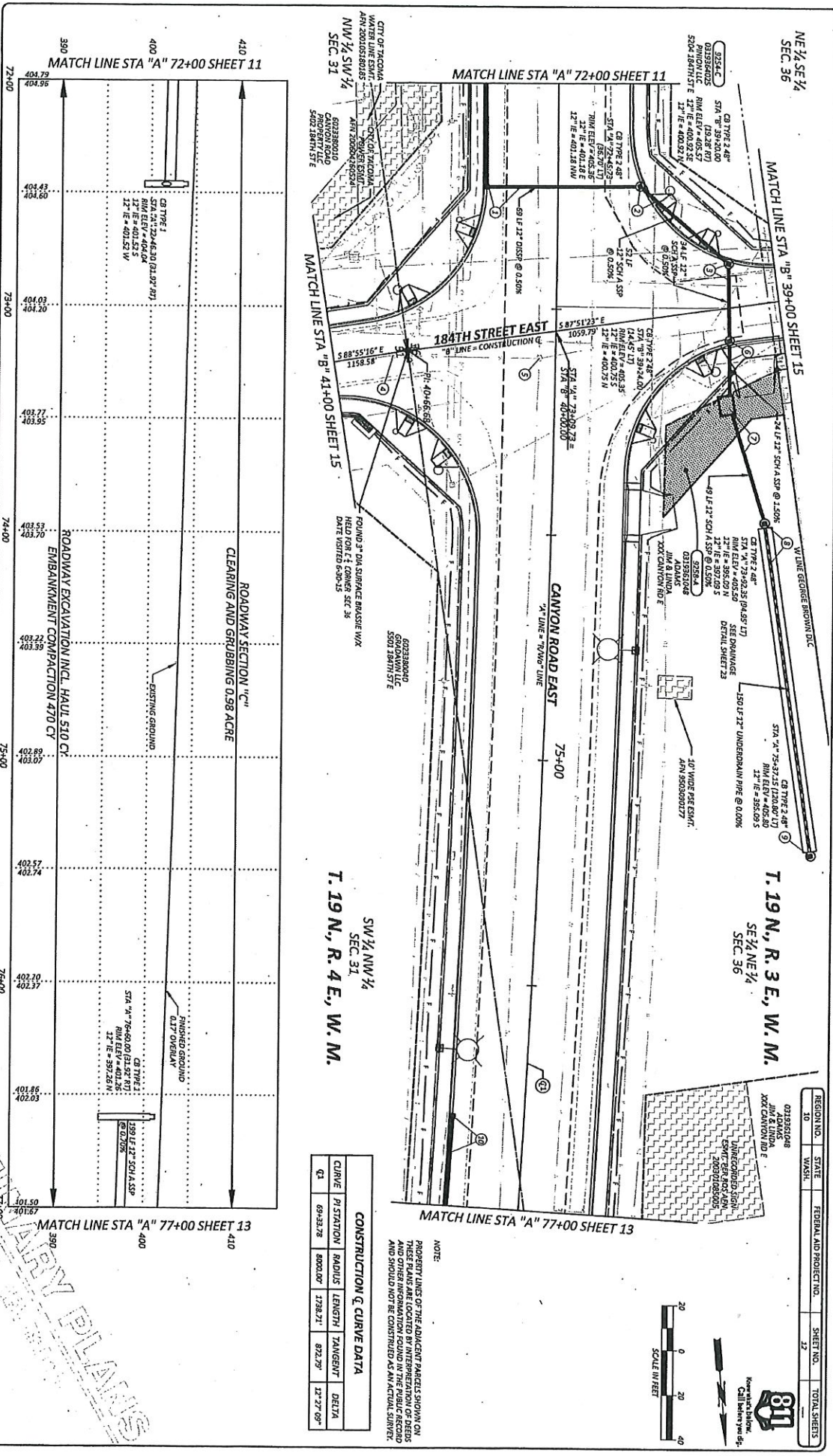
DESIGNED BY: L. J. ANDERSON	DATE PLOTTED: November 15, 2017
CHECKED BY: R. SCHWARTZ, P.E.	DATE PLOTTED: November 15, 2017
APPROVED BY: R. M. ANDERSON, P.E.	

DESIGNED BY: L. J. ANDERSON	DATE PLOTTED: November 15, 2017
CHECKED BY: R. SCHWARTZ, P.E.	DATE PLOTTED: November 15, 2017
APPROVED BY: R. M. ANDERSON, P.E.	

DESIGNED BY: L. J. ANDERSON	DATE PLOTTED: November 15, 2017
CHECKED BY: R. SCHWARTZ, P.E.	DATE PLOTTED: November 15, 2017
APPROVED BY: R. M. ANDERSON, P.E.	

DESIGNED BY: L. J. ANDERSON	DATE PLOTTED: November 15, 2017
CHECKED BY: R. SCHWARTZ, P.E.	DATE PLOTTED: November 15, 2017
APPROVED BY: R. M. ANDERSON, P.E.	

DESIGNED BY: L. J. ANDERSON	DATE PLOTTED: November 15, 2017
CHECKED BY: R. SCHWARTZ, P.E.	DATE PLOTTED: November 15, 2017
APPROVED BY: R. M. ANDERSON, P.E.	



CURVE	PI STATION	RADIUS	LENGTH	TANGENT	DELTA
Q1	69+33.78	800.00'	178.21'	82.29'	17°27'-09"

NOTE:  
 PROPERTY LINES OF THE ADJACENT PARCELS SHOWN ON THIS PLAN ARE FOR INFORMATION ONLY AND SHOULD NOT BE CONSIDERED AS AN ACTUAL SURVEY.



811  
 Know what to do.  
 Call when you dig.

REGION NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	WASH.		22	

CANYON ROAD EAST  
 192ND STREET EAST TO  
 FREDERICKSON INDUSTRIAL PARK ROAD EAST  
 PLAN AND PROFILE  
 CRP 5666

**Pierce County**  
 Planning & Public Works  
 Office of the County Engineer  
 4301 19th Avenue, Suite 102  
 Tacoma, Washington 98409  
 At-Home Accredited Agency

**Brian D. Stack, P.E.**  
 Office of the County Engineer  
 License No. 19200  
 Date: 11/15/2017

CANYON ROAD EAST  
 192ND STREET EAST TO  
 FREDERICKSON INDUSTRIAL PARK ROAD EAST  
 PLAN AND PROFILE  
 CRP 5666

DESIGNED BY:	L. SANDRO	CHECKED BY:	R. SCHINDLER, P.E.
DATE DESIGNED:	APRIL 2015	DATE CHECKED:	APRIL 2015
APPROVED BY:	R. SANDRO	DATE APPROVED:	NOVEMBER 15, 2017

DESIGNED BY:	L. SANDRO	CHECKED BY:	R. SCHINDLER, P.E.
DATE DESIGNED:	APRIL 2015	DATE CHECKED:	APRIL 2015
APPROVED BY:	R. SANDRO	DATE APPROVED:	NOVEMBER 15, 2017

DESIGNED BY:	L. SANDRO	CHECKED BY:	R. SCHINDLER, P.E.
DATE DESIGNED:	APRIL 2015	DATE CHECKED:	APRIL 2015
APPROVED BY:	R. SANDRO	DATE APPROVED:	NOVEMBER 15, 2017

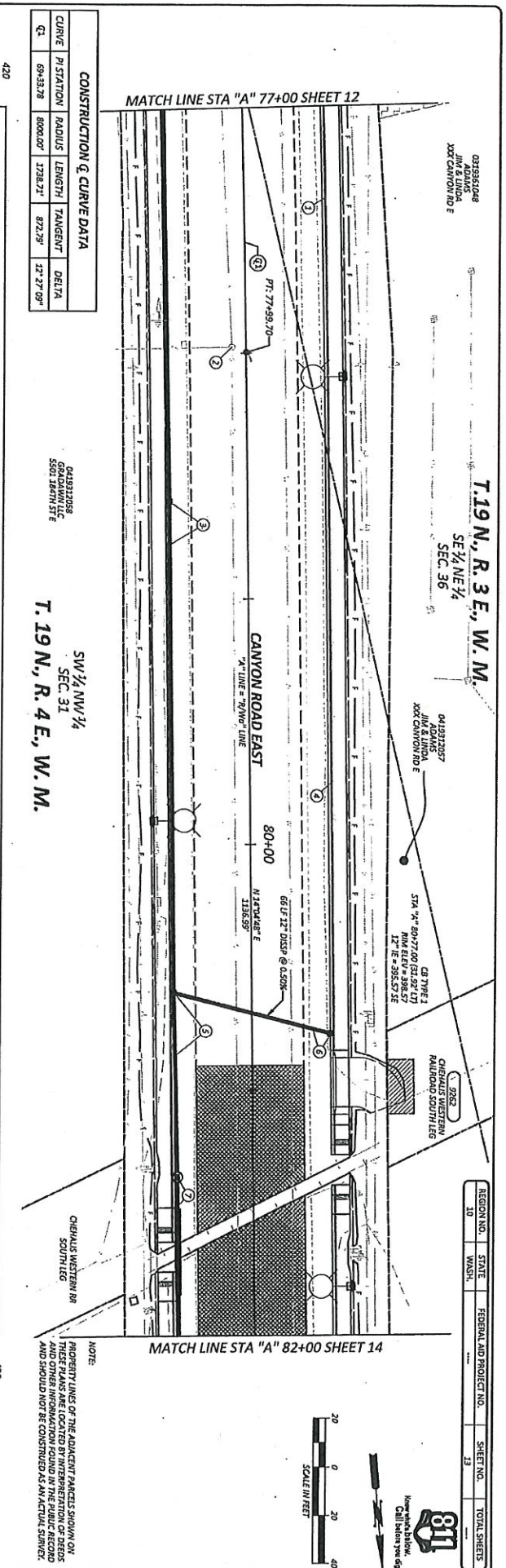
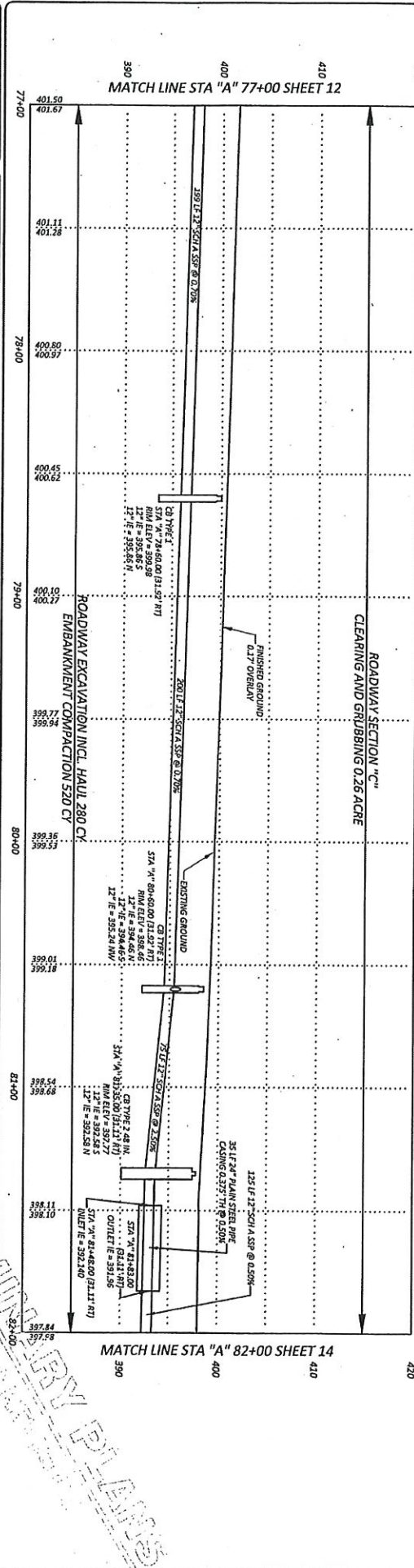
DESIGNED BY:	L. SANDRO	CHECKED BY:	R. SCHINDLER, P.E.
DATE DESIGNED:	APRIL 2015	DATE CHECKED:	APRIL 2015
APPROVED BY:	R. SANDRO	DATE APPROVED:	NOVEMBER 15, 2017

**Pierce County**  
 Planning & Public Works  
 Office of the County Engineer  
 410 1st Street, Suite 200  
 Tacoma, WA 98401  
 Telephone: 360.797.9329  
 Fax: 360.797.9330  
 As Adopted on December 1, 2006



Office of the County Engineer  
 Approved by: BRIAN D. STRACK, P.E. DATE: \_\_\_\_\_  
 TITLE: COUNTY ENGINEER

**CANYON ROAD EAST**  
 192ND STREET EAST TO  
**FREDERICKSON INDUSTRIAL PARK ROAD EAST**  
 PLAN AND PROFILE  
 CRP 5666



**CONSTRUCTION & CURVE DATA**

CURVE #	STATION	RADIUS	LENGTH	TANGENT	DELTA
C1	69+33.25	8000.00'	238.27'	873.25'	12°37'09"

**SW 1/4 NW 1/4  
 SEC. 31  
 T. 19 N., R. 4 E., W. M.**

**SW 1/4 NE 1/4  
 SEC. 36  
 T. 19 N., R. 3 E., W. M.**

PROPERTY LINES OF THE ADJACENT PARCELS SHOWN ON THESE PLANS ARE LOCATED BY INTERSECTION OF DEEDS AND SHOULD NOT BE CONSIDERED AS AN ACTUAL SURVEY.

Scale in Feet: 0, 20, 40

REGNO NO. 30  
 STATE WASH.  
 FEDERAL AID PROJECT NO.  
 SHEET NO. 13  
 TOTAL SHEETS

DESIGNED BY: L. M. ANDERSON	DRAWN BY: P. L. S. 666
CHECKED BY: R. S. JOHNSON, J.C.	DATE: 11/15/2017
DATE: 11/15/2017	PROJECT NO.:

DATE: 11/15/2017	PROJECT NO.:
DATE: 11/15/2017	PROJECT NO.:

DATE: 11/15/2017	PROJECT NO.:
DATE: 11/15/2017	PROJECT NO.:

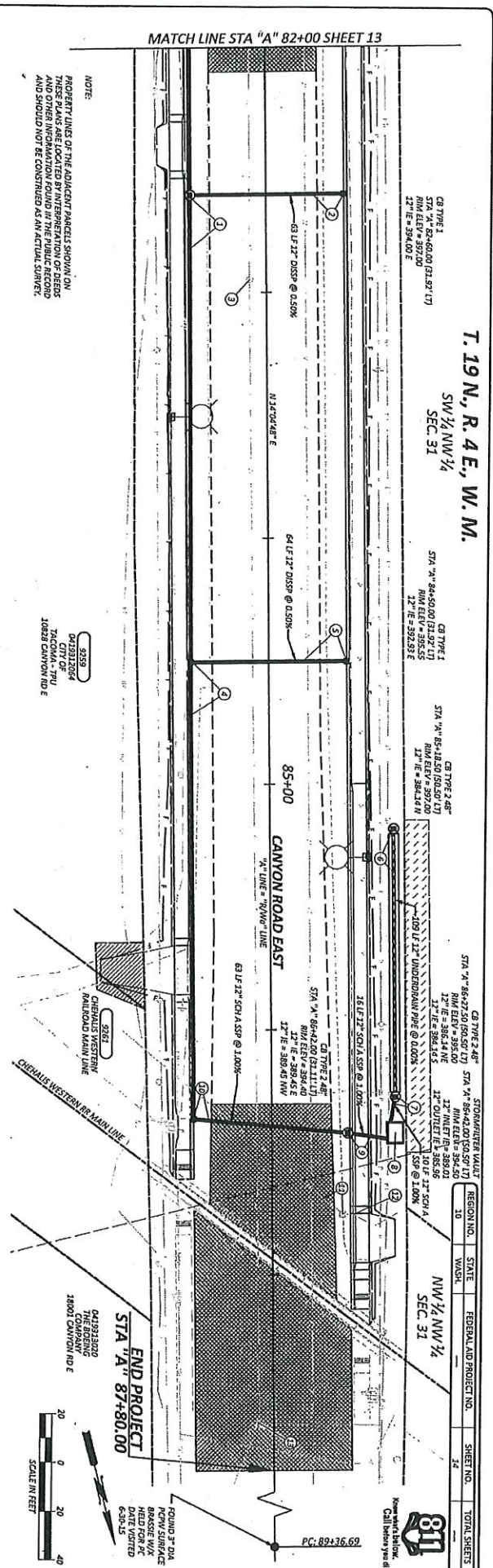
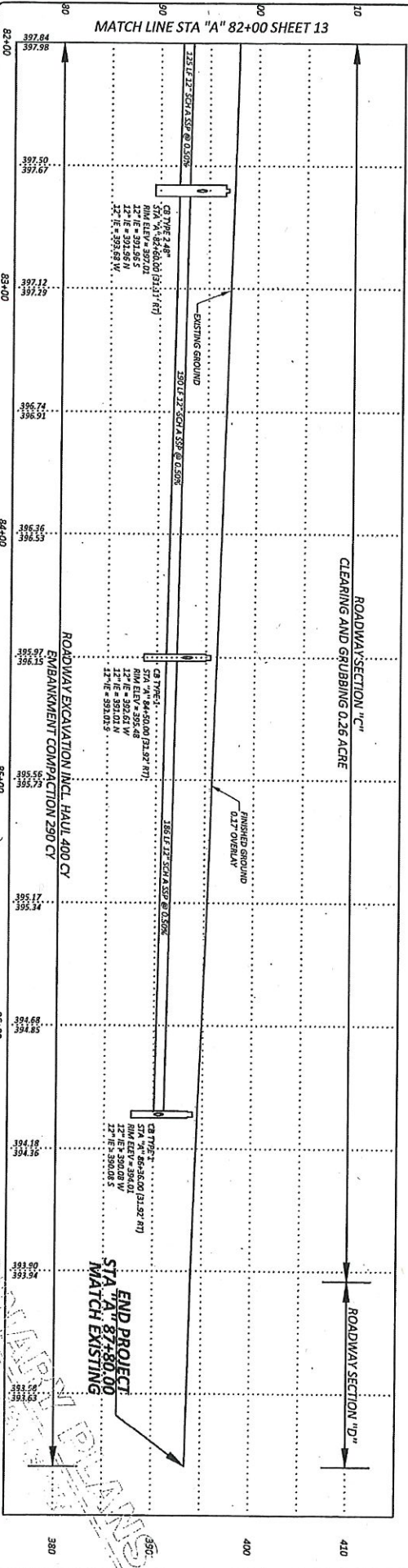
DATE: 11/15/2017	PROJECT NO.:
DATE: 11/15/2017	PROJECT NO.:

**Pierce County**  
 Planning & Public Works  
 Office of the County Engineer  
 4303 South Pine Street, Suite 628  
 Tacoma, Washington 98403  
 Approved: [Signature]



Office of the County Engineer  
 Approved: [Signature]  
 Brian A. Stact, P.E.  
 Licensed Professional Engineer  
 License No. 35829  
 State of Washington

**CANYON ROAD EAST**  
 192ND STREET EAST TO  
 FREDERICKSON INDUSTRIAL PARK ROAD EAST  
 PLAN AND PROFILE  
 CRP 5666



**T. 19 N., R. 4 E., W. M.**  
 SW 1/4 NW 1/4  
 SEC. 31

PROPERTY LINES OF THE ADJACENT PARCELS SHOWN ON THIS PLAN ARE BASED ON THE RECORD SURVEY AND OTHER INFORMATION FOUND IN THE PUBLIC RECORDS AND SHOULD NOT BE CONSIDERED AS AN ACTUAL SURVEY.

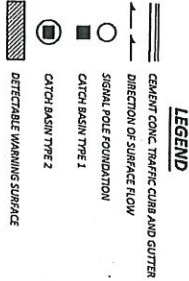
NOTE:  
 3535  
 3536  
 3537  
 3538  
 3539  
 3540  
 3541  
 3542  
 3543  
 3544  
 3545  
 3546  
 3547  
 3548  
 3549  
 3550  
 3551  
 3552  
 3553  
 3554  
 3555  
 3556  
 3557  
 3558  
 3559  
 3560  
 3561  
 3562  
 3563  
 3564  
 3565  
 3566  
 3567  
 3568  
 3569  
 3570  
 3571  
 3572  
 3573  
 3574  
 3575  
 3576  
 3577  
 3578  
 3579  
 3580  
 3581  
 3582  
 3583  
 3584  
 3585  
 3586  
 3587  
 3588  
 3589  
 3590  
 3591  
 3592  
 3593  
 3594  
 3595  
 3596  
 3597  
 3598  
 3599  
 3600  
 3601  
 3602  
 3603  
 3604  
 3605  
 3606  
 3607  
 3608  
 3609  
 3610  
 3611  
 3612  
 3613  
 3614  
 3615  
 3616  
 3617  
 3618  
 3619  
 3620  
 3621  
 3622  
 3623  
 3624  
 3625  
 3626  
 3627  
 3628  
 3629  
 3630  
 3631  
 3632  
 3633  
 3634  
 3635  
 3636  
 3637  
 3638  
 3639  
 3640  
 3641  
 3642  
 3643  
 3644  
 3645  
 3646  
 3647  
 3648  
 3649  
 3650  
 3651  
 3652  
 3653  
 3654  
 3655  
 3656  
 3657  
 3658  
 3659  
 3660  
 3661  
 3662  
 3663  
 3664  
 3665  
 3666  
 3667  
 3668  
 3669  
 3670  
 3671  
 3672  
 3673  
 3674  
 3675  
 3676  
 3677  
 3678  
 3679  
 3680  
 3681  
 3682  
 3683  
 3684  
 3685  
 3686  
 3687  
 3688  
 3689  
 3690  
 3691  
 3692  
 3693  
 3694  
 3695  
 3696  
 3697  
 3698  
 3699  
 3700

REGION NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	WA		24	

PC: 89436.69

**WEST INTERSECTION POINT TABLE**

POINT	"A" LINE	ELEV.	NOTE
M1	81-43.00 (E) 320' LT	394.22	FLOWLINE
M2	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK
M3	81-43.00 (E) 320' LT	394.22	MAIN FLOWLINE
M4	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK
M5	81-43.00 (E) 320' LT	394.22	TOP OF CURB
M6	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK

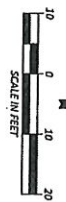
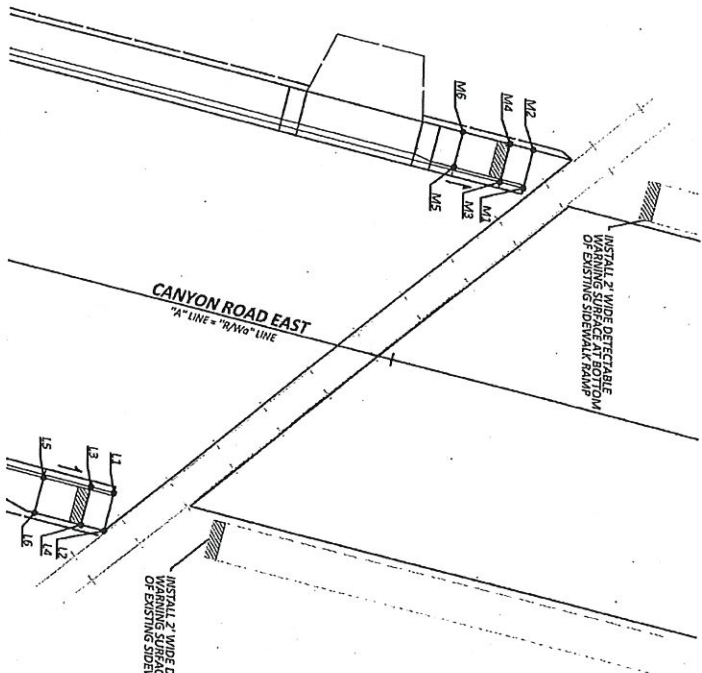


**NW QUADRANT INTERSECTION POINT TABLE**

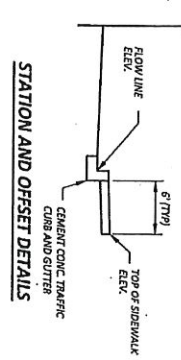
POINT	"A" LINE	ELEV.	NOTE
N1	81-43.00 (E) 320' LT	394.22	FLOWLINE
N2	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK
N3	81-43.00 (E) 320' LT	394.22	MAIN FLOWLINE
N4	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK
N5	81-43.00 (E) 320' LT	394.22	TOP OF CURB
N6	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK

**SW QUADRANT INTERSECTION POINT TABLE**

POINT	"A" LINE	ELEV.	NOTE
S1	81-43.00 (E) 320' LT	394.22	FLOWLINE
S2	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK
S3	81-43.00 (E) 320' LT	394.22	MAIN FLOWLINE
S4	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK
S5	81-43.00 (E) 320' LT	394.22	TOP OF CURB
S6	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK



**T. 19 N., R. 4 E., W. M.**  
 SW ¼, NW ¼  
 SEC. 31



NOTE:  
 ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR AND PIERCE COUNTY PRIOR TO BIDDING/CONSTRUCTION.  
 SEE SPECIAL PROVISIONS, "CEMENT CONCRETE SIDEWALKS"

DISCLAIMER - PRELIMINARY PLAN ONLY  
 SUBJECT TO REVISION

**EAST INTERSECTION POINT TABLE**

POINT	"A" LINE	ELEV.	NOTE
E1	81-43.00 (E) 320' LT	394.22	FLOWLINE
E2	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK
E3	81-43.00 (E) 320' LT	394.22	MAIN FLOWLINE
E4	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK
E5	81-43.00 (E) 320' LT	394.22	TOP OF CURB
E6	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK

**NE QUADRANT INTERSECTION POINT TABLE**

POINT	"A" LINE	ELEV.	NOTE
N1	81-43.00 (E) 320' LT	394.22	FLOWLINE
N2	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK
N3	81-43.00 (E) 320' LT	394.22	MAIN FLOWLINE
N4	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK
N5	81-43.00 (E) 320' LT	394.22	TOP OF CURB
N6	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK

**SE QUADRANT INTERSECTION POINT TABLE**

POINT	"A" LINE	ELEV.	NOTE
S1	81-43.00 (E) 320' LT	394.22	FLOWLINE
S2	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK
S3	81-43.00 (E) 320' LT	394.22	MAIN FLOWLINE
S4	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK
S5	81-43.00 (E) 320' LT	394.22	TOP OF CURB
S6	81-43.00 (E) 320' LT	394.22	TOP OF SIDEWALK

DESIGNED BY: L. SANDRO  
 CHECKED BY: R. SCHULDAK, P.E.  
 DATE: APRIL 2015

NO.	DATE	REVISION

Pierce County  
 Planning & Public Works  
 Office of the County Engineer  
 Tacoma Mall Office Building  
 4801 South Pine Street, Suite 628  
 Tacoma, WA 98506  
 An Equal Opportunity Agency



Office of the County Engineer  
 BRIAN D. STACH, P.E.  
 LITTONIA M. WALKER, P.E.  
 DATE: \_\_\_\_\_

CANYON ROAD EAST  
 192ND STREET EAST TO  
 FREDERICKSON INDUSTRIAL PARK ROAD EAST  
 INTERSECTION PLAN  
 CRP 5666





DESIGNED BY:	SAVIERO JR
CHECKED BY:	C. BUSBY
DATE CHECKED:	APRIL 2015
DATE PLOTTED:	November 16, 2017

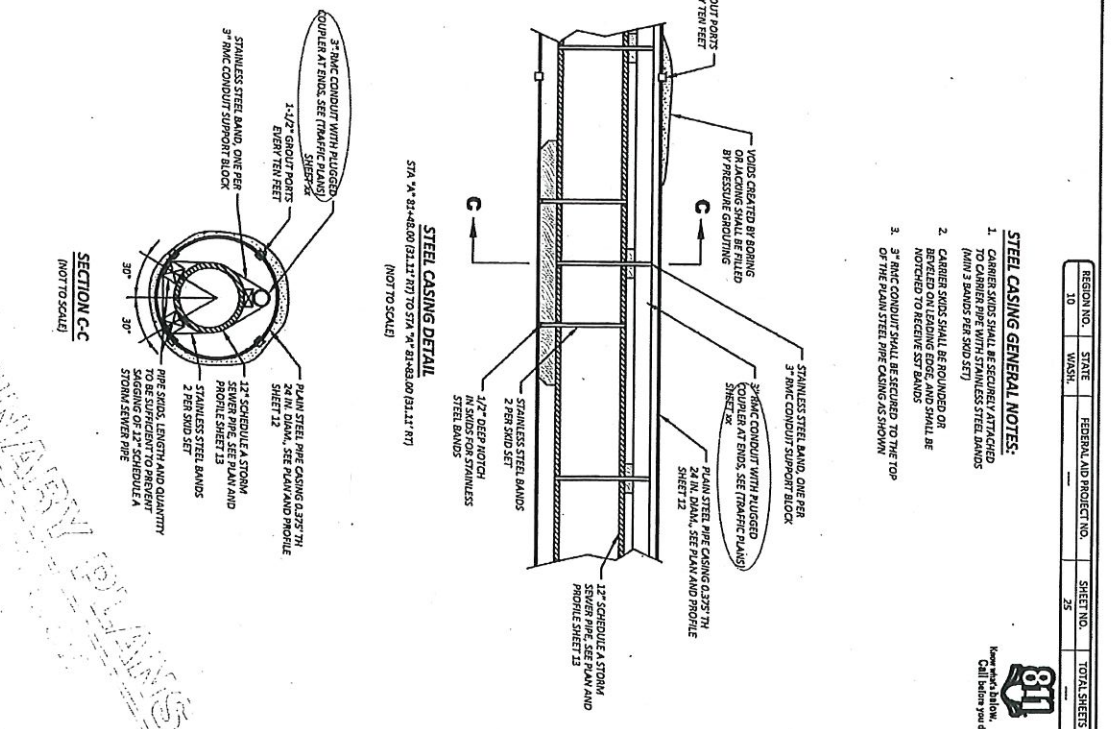
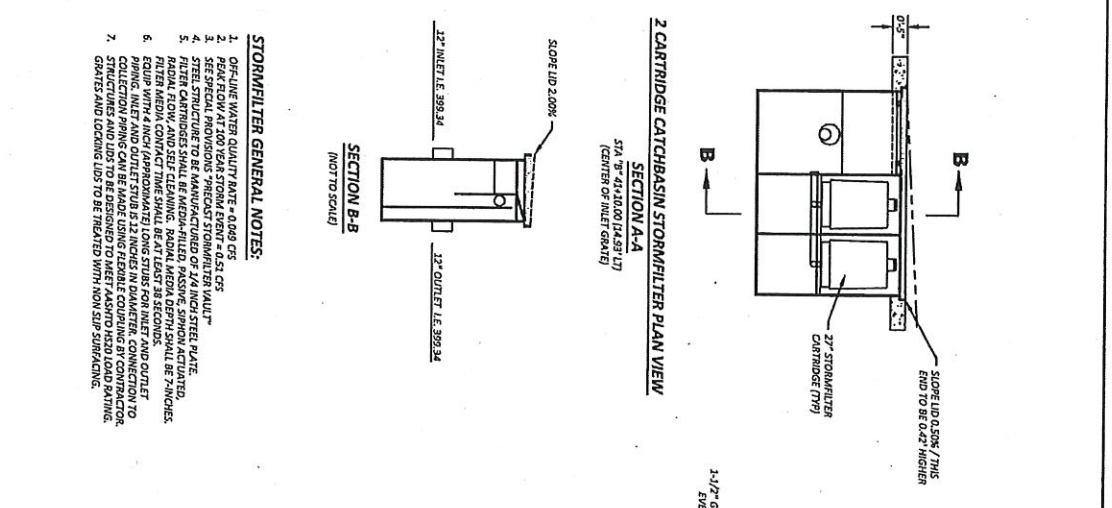
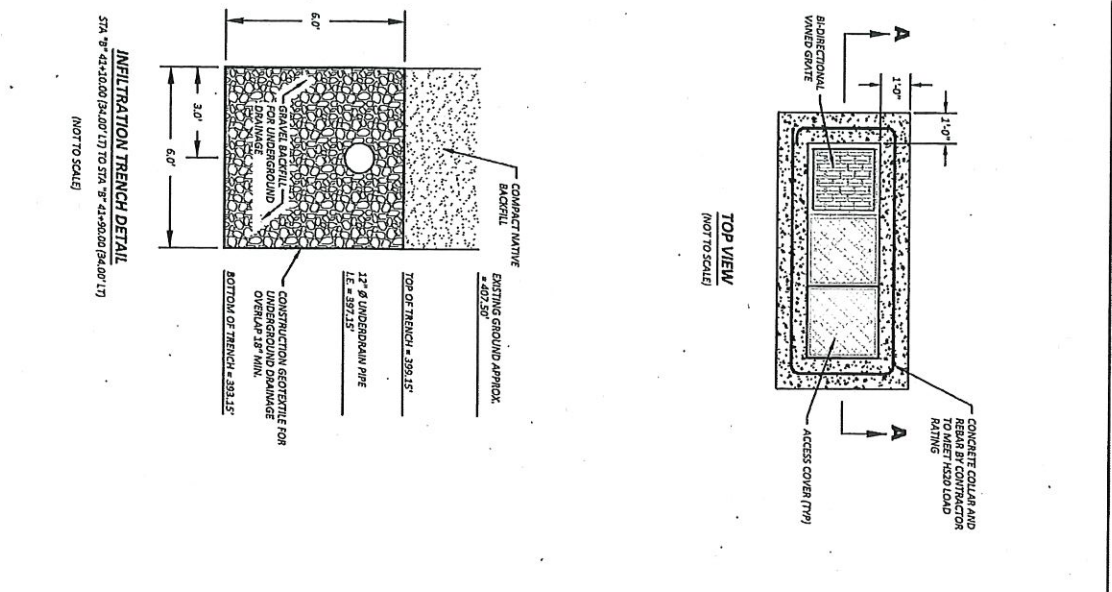
NO.	DATE	REVISION

NO.	DATE	REVISION

**Pierce County**  
 Planning & Public Works  
 Office of the County Engineer  
 Tacoma Mall Office Building  
 4301 South Hill Street, Suite 628  
 Tacoma, Washington 98409  
 Approved: [Signature]

Office of the County Engineer  
 APPROVED: [Signature]  
 BRIAN D. STACE, C.E.  
 LEGAL & NEARBY DATE  
 TRANSPORTATION IMPROVEMENT SECTION MANAGER

CANYON ROAD EAST  
 132ND STREET EAST TO  
 FREDERICKSON INDUSTRIAL PARK ROAD EAST  
 DRAINAGE DETAILS  
 CRP 5666



**STEEL CASING GENERAL NOTES:**

- CASING STUDS SHALL BE SECURELY ATTACHED TO THE PLAIN STEEL PIPE CASING WITH STUDS (MIN 3 BANDS PER STUD SET)
- CASING STUDS SHALL BE ROUNDED ON CORNERS, AND SHOULD BE NOTCHED TO RECEIVE STUD BANDS.
- 3" RMC CONDUIT SHALL BE SECURED TO THE TOP OF THE PLAIN STEEL PIPE CASING AS SHOWN.

REGION NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	WA		25	

811  
 Homebased  
 Call them you dig.

DRAWN BY:	CLAKOSE
CHECKED BY:	L. SANDOZ
DESIGNED BY:	P. RAJACHANDRAN, P.E.
DATE:	November 16, 2017
SCALE:	

REVISION NO.	DATE	BY	DESCRIPTION
1	11/16/2017	CLAKOSE	ISSUED FOR PERMITS

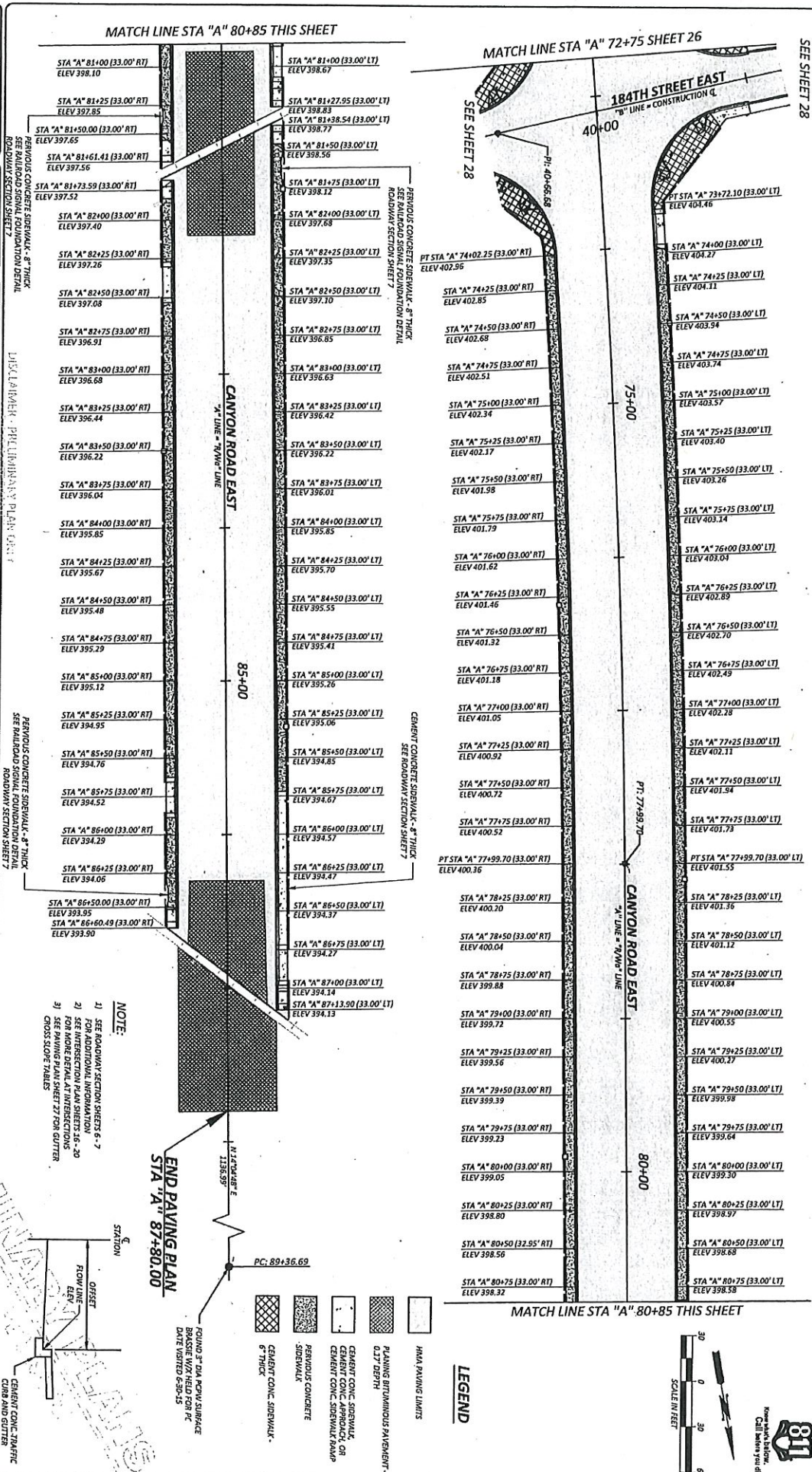
NO.	DATE	BY	DESCRIPTION
1	11/16/2017	CLAKOSE	ISSUED FOR PERMITS

**Pierce County**  
 Planning & Public Works  
 Office of the County Engineer  
 1500 South Pine Street, Suite 808  
 Tacoma, WA 98402  
 Tel: 253.831.3000  
 Fax: 253.831.3001  
 An Allstate Accredited Agency

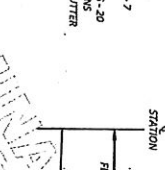


Office of the County Engineer  
 Brian D. Stacy, P.E.  
 Letitia M. Niska, P.E.  
 Date:

**CANYON ROAD EAST  
 192ND STREET EAST TO  
 FREDERICKSON INDUSTRIAL PARK ROAD EAST  
 PAVING PLAN  
 CRP 5666**



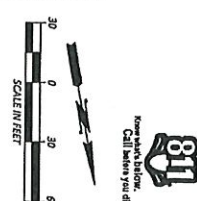
- NOTE:**
- 1) SEE ROADWAY SECTION SHEETS 6-7
  - 2) FOR ADDITIONAL INFORMATION
  - 3) SEE INTERSECTION PLAN SHEETS 56-20
  - 4) FOR MORE DETAILED INTERSECTIONS
  - 5) CROSS SLOPE TRAILS



**LEGEND**

- HMA PAVING LIMITS
- PLANS BRONZINOUS PAVEMENT- 6.5" BBT
- CEMENT CONC. SIDEWALK APPROACH OR CEMENT CONC. SIDEWALK BAMP
- REINFORCED CONCRETE SIDEWALK
- CEMENT CONC. SIDEWALK - 8" THICK
- CEMENT CONC. SIDEWALK - 4" THICK
- HMA PAVING LIMITS

ROUND 3" DIA. PCPV SURFACE BRUSH W/ HED FOR PC DATE VAPED 5/8/25



REGION NO.	10
STATE	WASH.
FEDERAL AID PROJECT NO.	
SHEET NO.	27
TOTAL SHEETS	

DESIGNED BY: C. LARSON	DATE: 11/16/2017
CHECKED BY: L. SANDERSON	DATE: 11/16/2017
DESIGNED BY: R. SCHLONDA, P.E.	DATE: 11/16/2017
DESIGNED BY: F. RAUSCHMAN, P.E.	DATE: 11/16/2017

NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

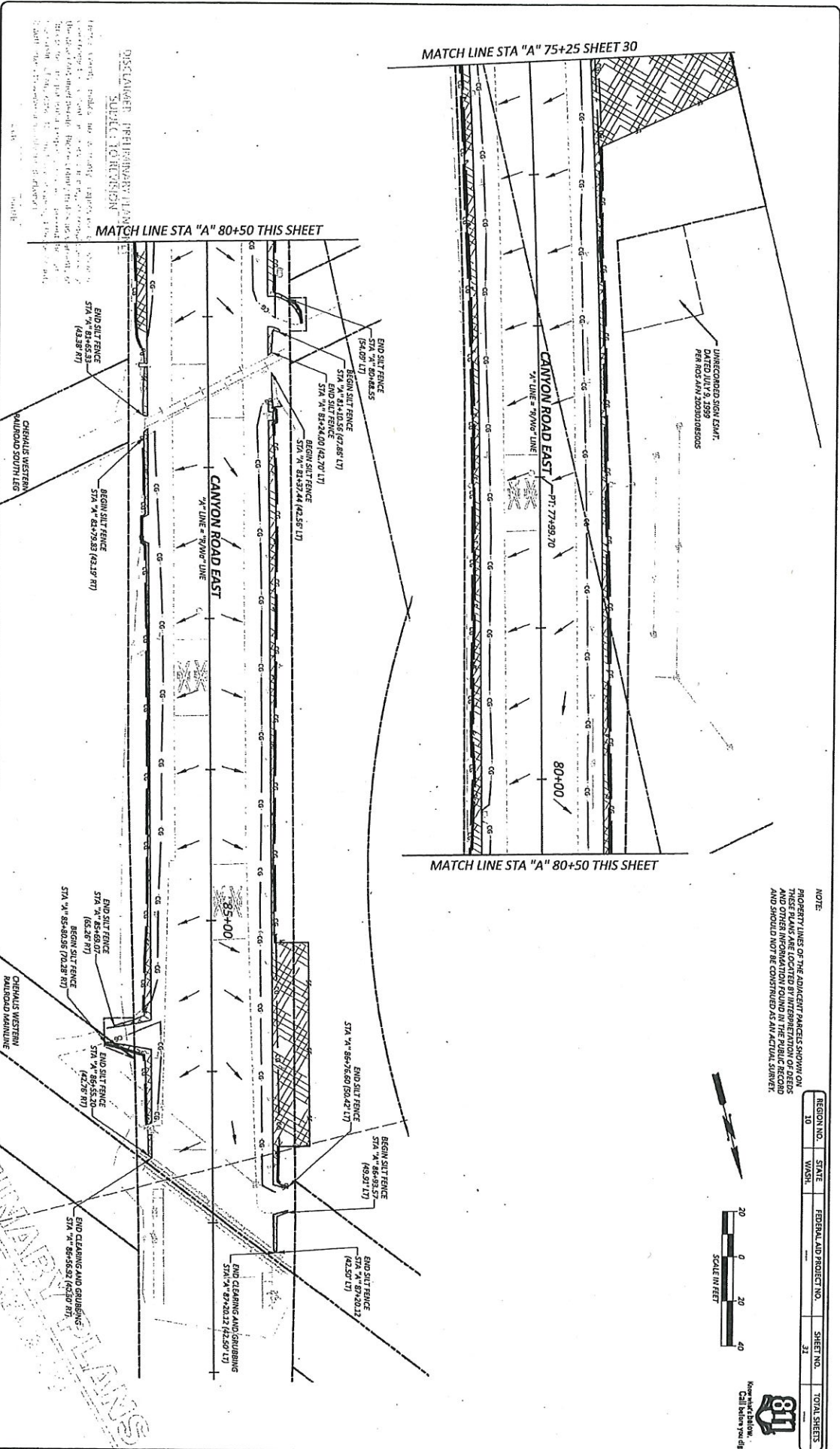
NO.	DATE	BY	REVISION

**Pierce County**  
 Planning & Public Works  
 Office of the County Engineer  
 Tacoma Mall Office Building  
 4301 South Pine Street, Suite 628  
 Tacoma, WA 98561  
 An Equal Opportunity Agency

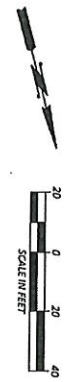


Office of the County Engineer  
 APRONED BY:  
 BRIAN D. STACT, P.E.  
 LETICIA M. ANKA, P.E.  
 TRANSPORTATION IMPROVEMENT SECTION MANAGER

**CANYON ROAD EAST TO 192ND STREET EAST TO STORMWATER POLLUTION PREVENTION PLAN**  
 CRP 5666

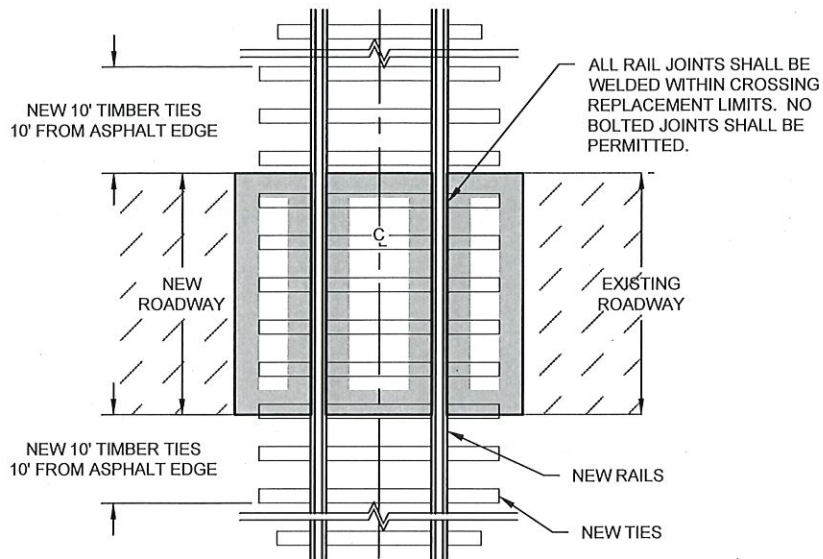


NOTE:  
 PROPERTY LINES OF THE ADJACENT BARBERS COUNTY, OR THESE PLANS ARE LOCATED BY INTERPRETATION OF DEEDS AND OTHER INFORMATION FOUND IN THE PUBLIC RECORD AND SHOULD NOT BE CONSIDERED AS AN ACTUAL SURVEY.

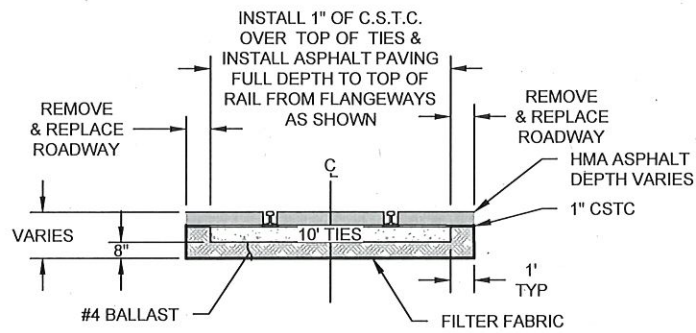


REGION NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	WASH.		31	





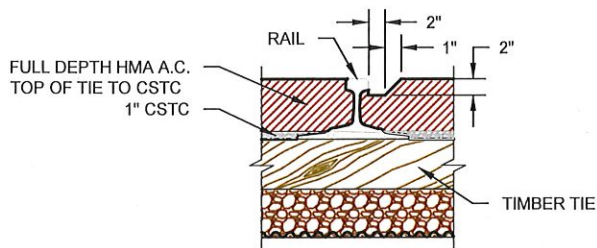
**PLAN VIEW**



**SECTION**

**ASPHALT ROAD CROSSING**

NTS



**ASPHALT FLANGEWAY**

NTS