

# Contract Plans

# MARINE DRIVE SHOULDER IMPROVEMENTS

# PHASE 1: 7TH DRIVE NW TO 64TH ST NW

## TULALIP INDIAN RESERVATION

## SNOHOMISH COUNTY

PROJECT NO. 2014-358

### DESIGN STANDARDS:

ROAD CLASSIFICATION: RURAL MINOR ARTERIAL

### STANDARD SPECIFICATIONS:

WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION 2016

### GOVERNING AGENCY CONTACTS:

SNOHOMISH COUNTY  
DEPARTMENT OF PUBLIC WORKS  
3000 ROCKEFELLER, M/S 607  
EVERETT, WA 98201  
(425) 388-6381  
CONTACT: BROOK CHESTERFIELD

TULALIP TRIBES  
CONSOLIDATED BOROUGH OF QUIL CEDA VILLAGE  
8802 27TH AVE NE  
TULALIP, WA 98271  
(360) 716-5024  
CONTACT: DEBRA BRAY

### OWNER/APPLICANT:

THE TULALIP TRIBES  
8802 27TH AVE NE  
TULALIP, WA 98271  
(360) 716-5024

### UTILITIES:

FRONTIER COMMUNICATIONS  
1800 41st STREET  
EVERETT, WA 98201  
ATTN: CHUCK ROBERTS  
(425) 261-8888

TULALIP BROADBAND (CABLE)  
8825 QUIL CEDA BOULEVARD, SUITE O  
TULALIP, WA 98271  
ATTN: RICHARD BROWN  
(360) 716-3277

VERIZON  
OSP ENGINEERING  
PO BOX 1003  
EVERETT, WA 98200  
ATTN: TIM RENNICK  
(425) 263-4034

TULALIP TRIBES  
COMMUNITY DEVELOPMENT  
6406 MARINE DR.  
TULALIP, WA 98271  
(360) 716-4011, (360) 716-4209  
CONTACT: GUS TAYLOR, AMANDA HUNTER

TULALIP TRIBES  
TRIBAL EMPLOYMENT RIGHTS OFFICE  
6406 MARINE DR.  
TULALIP, WA 98271  
(360) 716-4744  
CONTACT: TERI GOBIN

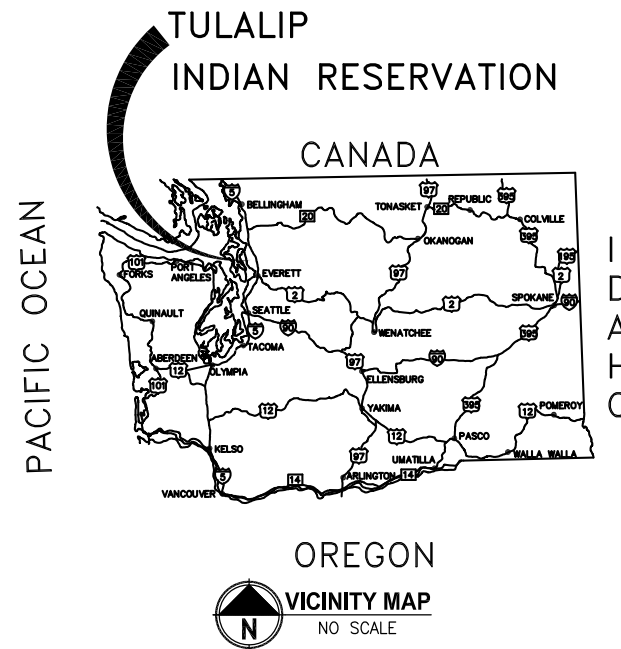
### ENGINEER:

PARAMETRIX  
1019 39TH AVENUE SE SUITE 100  
PUYALLUP, WA 98374  
ATTN: AUSTIN FISHER  
(253) 604-6600

SNOHOMISH COUNTY PUBLIC UTILITIES DISTRICT (PUD)  
210 E DIVISION STREET  
ARLINGTON, WA 98223  
ATTN: NICK FADICH  
(360) 435-7500

TULALIP TECHNOLOGY DATA SERVICES  
8825 QUIL CEDA BOULEVARD, SUITE O  
TULALIP, WA 98271  
ATTN: TRAVIS HILL  
(360) 716-5128

PUGET SOUND ENERGY (GAS)  
PO BOX 97034  
BELLEVUE, WA 98004  
ATTN: JEANNE COLEMAN  
(425) 463-6550



INDEX TO DRAWINGS		
DWG NO.	SHT NO.	SHEET TITLE
1	G1	TITLE SHEET, LOCATION AND VICINITY MAPS, AND INDEX TO DRAWINGS
2	G2	GENERAL NOTES, LEGEND, AND ABBREVIATIONS
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5-19-16

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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS**  
**PHASE 1: 7TH DRIVE NW TO 64TH STREET NW**  
**THE TULALIP TRIBES**  
TULALIP, WASHINGTON

**TITLE SHEET,**  
**LOCATION AND VICINITY MAPS,**  
**AND INDEX TO DRAWINGS**



SHEET NO.  
1 OF 40  
**G1**

LAYOUT: G1 PATH: C:\PWA\Temp\Ac-Publish\_9460\ PLOTTED BY: millenal DATE: Thursday, May 19, 2016 12:00:19 PM

REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

FILE NAME  
PS1598078P01T04-G  
JOB No.  
554-1598-078 (01/05)  
DATE  
MAY 2016

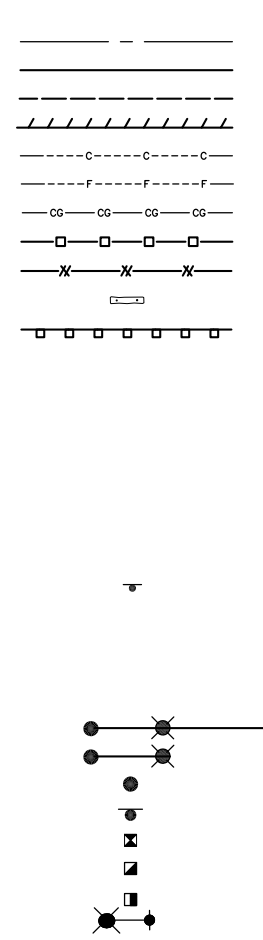
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**DESCRIPTION**

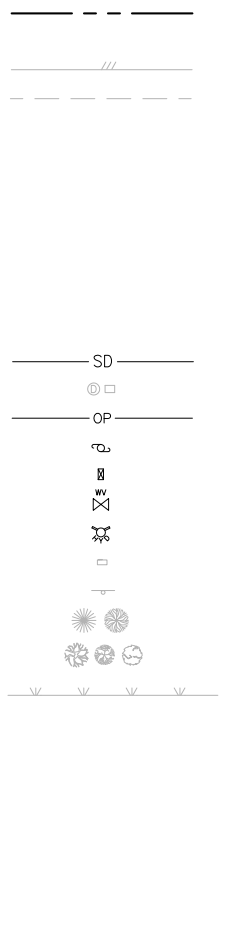
- RIGHT-OF-WAY
- CONSTRUCTION BASELINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- SAWCUT
- CUT
- FILL
- CLEARING AND GRUBBING
- SILT FENCE
- HIGH VISIBILITY SILT FENCE
- STRAW WATTLE
- GUARD RAIL
- STORM DRAIN
- CATCH BASIN
- OVERHEAD POWER
- UTILITY POLE
- WATER METER
- VALVE
- FIRE HYDRANT
- MAIL BOX
- SIGN
- TREE-DECIDUOUS
- TREE-CONIFER
- WETLAND
- TYPE 3 SIGNAL POLE
- STREET LIGHT POLE
- TYPE 1 SIGNAL POLE
- TYPE PPB POST
- TYPE 1 JUNCTION BOX
- TYPE 2 JUNCTION BOX
- TYPE 8 JUNCTION BOX
- ILLUMINATION POLE

**LEGEND**

**PROPOSED**



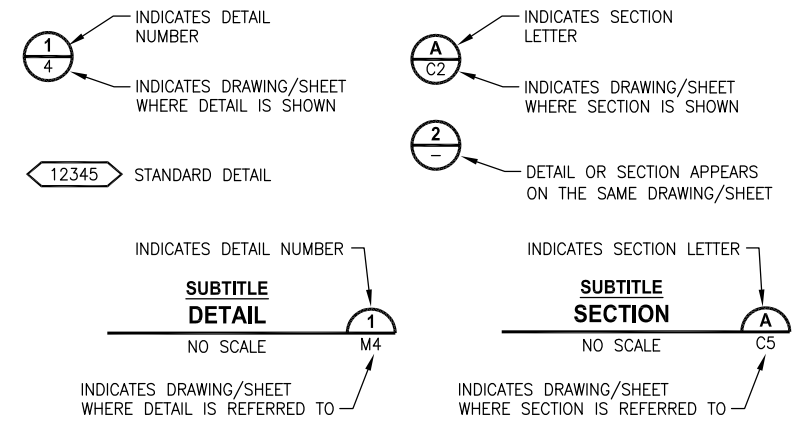
**EXISTING**



**ABBREVIATIONS:**

- |                 |  |
|-----------------|--|
| BEGINNING POINT | BEGINNING POINT  |
| C               | CURVE, CUT   |
| CB              | CATCH BASIN  |
| CL              | CENTER LINE  |
| CONST           | CONSTRUCTION   |
| CSBC            | CRUSHED SURFACING BASE COURSE  |
| CSTC            | CRUSHED SURFACING TOP COURSE   |
| E               | EAST, EASTING  |
| EDDS            | THE ENGINEERING DESIGN AND DEVELOPMENT STANDARDS, CURRENT EDITION (SNOHOMISH COUNTY) |
| EL, ELEV        | ELEVATION  |
| END POINT       | END POINT  |
| EOP             | EDGE OF PAVEMENT   |
| EX, EXIST F     | EXISTING   |
| HMA             | FILL   |
| LF              | HOT MIXED ASPHALT  |
| L               | LINEAL FEET  |
| LBS             | POUNDS   |
| LT              | LINE   |
| MIN             | LEFT   |
| N               | MINIMUM  |
| NE              | NORTH, NORTHING  |
| NIC             | NORTH EAST   |
| NO., #          | NOT IN CONTRACT  |
| NW              | NUMBER   |
| PC              | NORTH WEST   |
| PI              | POINT OF CURVATURE   |
| PT              | POINT OF INTERSECTION  |
| R               | POINT OF TANGENCY  |
| RT              | RADII, RADIUS  |
| R/W, ROW S      | RIGHT  |
| SD              | RIGHT-OF-WAY   |
| SE              | SOUTH, SLOPE   |
| SL              | STORM DRAIN  |
| SW              | SOUTH EAST   |
| STA             | SLOPE  |
| STD             | SOUTH WEST   |
| TAN             | STATION  |
| TYP             | STANDARD   |
| W               | TANGENT  |
| WSDOT           | TYPICAL  |
|                 | WEST   |
|                 | WASHINGTON STATE DEPARTMENT OF TRANSPORTATION  |

**DETAIL AND SECTION DESIGNATION**



REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			DRAWN E. SOTO
			CHECKED J. DVORAK
			APPROVED A. FISHER

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FILE NAME: PS1598078P01T04-G

JOB No: 554-1598-078 (01/05)

DATE: MAY 2016



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APPROVED FOR CONSTRUCTION

BY \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.  
ROW PERMIT NO. \_\_\_\_\_

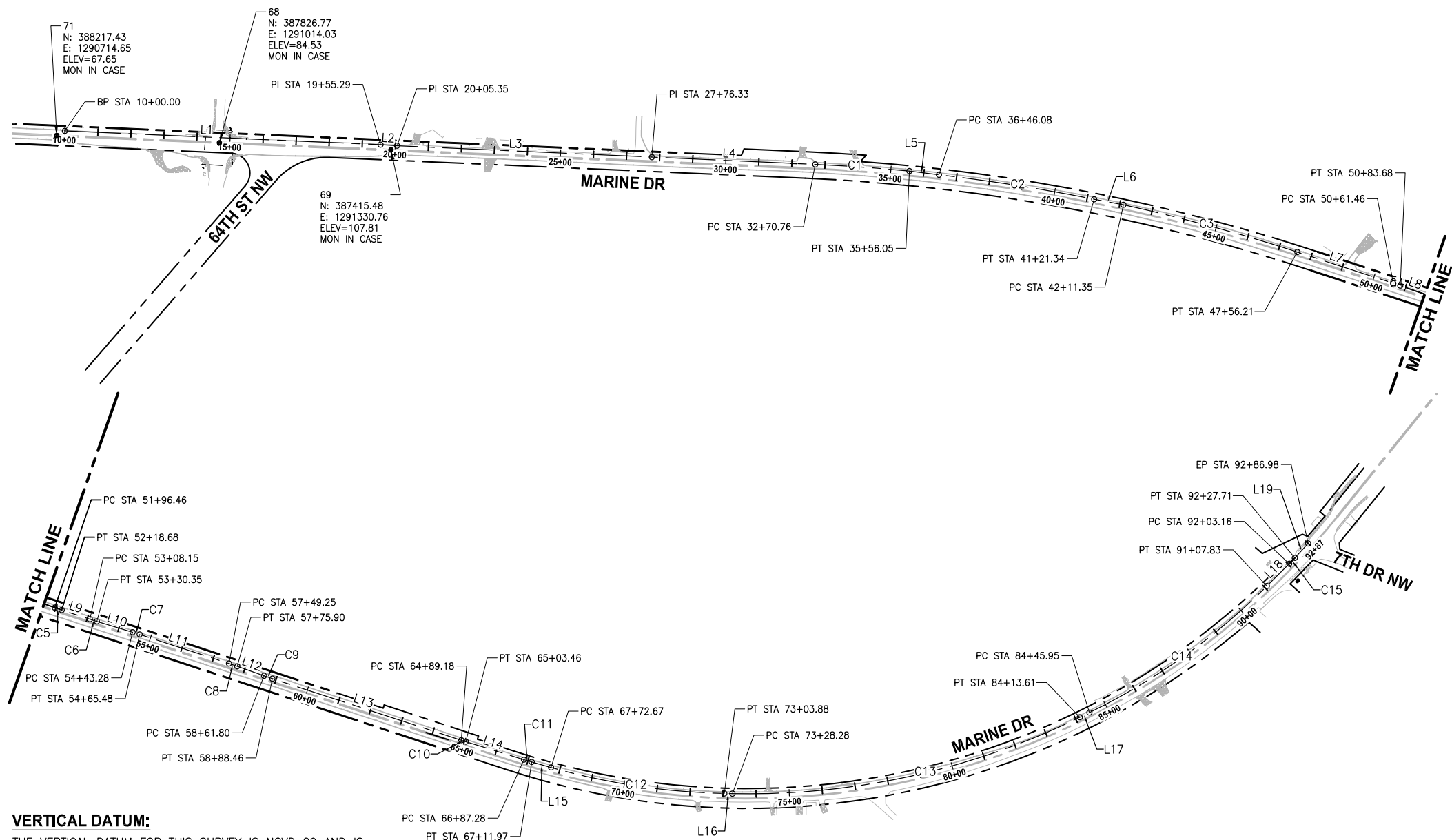
**GENERAL NOTES, LEGEND,  
AND ABBREVIATIONS**

**811**  
Know what's below.  
Call before you dig.

SHEET NO.  
2 OF 40

**G2**

LAYOUT: G3  
 PATH: G:\PMX\Temp\As-Publish\_9460\  
 PLOTTED BY: millennial DATE: Thursday, May 19, 2016 12:00:45 PM

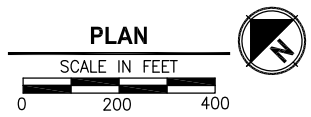


LINE TABLE				
LINE ID	LENGTH	BEARING	START POINT	END POINT
L1	955.29'	S37° 30' 21.09"E	(N 388207.49, E 1290741.10)	(N 387449.67, E 1291322.72)
L2	50.06'	S36° 18' 09.12"E	(N 387449.67, E 1291322.72)	(N 387409.33, E 1291352.36)
L3	770.98'	S37° 26' 45.42"E	(N 387409.33, E 1291352.36)	(N 386797.23, E 1291821.12)
L4	494.43'	S37° 26' 45.42"E	(N 386797.23, E 1291821.12)	(N 386404.68, E 1292121.74)
L5	90.03'	S32° 43' 45.10"E	(N 386173.78, E 1292289.25)	(N 386098.04, E 1292337.93)
L6	90.01'	S29° 22' 46.37"E	(N 385691.03, E 1292583.01)	(N 385612.59, E 1292627.17)
L7	305.25'	S21° 57' 21.18"E	(N 385118.17, E 1292855.59)	(N 384835.06, E 1292969.72)
L8	112.78'	S20° 40' 57.16"E	(N 384814.36, E 1292977.80)	(N 384708.85, E 1293017.63)
L9	89.47'	S21° 57' 21.18"E	(N 384688.15, E 1293025.71)	(N 384605.17, E 1293059.16)
L10	112.92'	S23° 13' 40.87"E	(N 384584.67, E 1293067.69)	(N 384480.90, E 1293112.23)
L11	283.77'	S21° 57' 21.18"E	(N 384460.40, E 1293120.76)	(N 384197.22, E 1293226.85)
L12	85.90'	S20° 25' 42.81"E	(N 384172.36, E 1293236.49)	(N 384091.87, E 1293266.47)
L13	600.72'	S21° 57' 20.81"E	(N 384067.02, E 1293276.11)	(N 383509.86, E 1293500.71)
L14	183.82'	S22° 46' 27.62"E	(N 383496.65, E 1293506.15)	(N 383327.16, E 1293577.30)
L15	60.70'	S24° 11' 19.54"E	(N 383304.52, E 1293587.14)	(N 383249.15, E 1293612.01)
L16	24.40'	S38° 45' 55.54"E	(N 382797.33, E 1293888.64)	(N 382778.30, E 1293903.92)
L17	32.34'	S66° 01' 47.66"E	(N 382122.29, E 1294755.70)	(N 382109.15, E 1294785.25)
L18	95.33'	S84° 56' 38.02"E	(N 381944.04, E 1295423.10)	(N 381935.63, E 1295518.06)
L19	59.26'	S87° 21' 46.25"E	(N 381933.99, E 1295542.55)	(N 381931.26, E 1295601.75)

CURVE TABLE					
CURVE ID	LENGTH	RADIUS	DELTA	CHORD LENGTH	CHORD BEARING
C1	285.29'	5495.20'	2°58'28"	285.26'	S35°57'31"E
C2	475.26'	5493.20'	4°57'25"	475.11'	S31°03'15"E
C3	544.86'	5495.20'	5°40'52"	544.64'	S24°47'48"E
C4	22.22'	1000.00'	1°16'24"	22.22'	S21°19'09"E
C5	22.22'	1000.00'	1°16'24"	22.22'	S21°19'09"E
C6	22.20'	1000.00'	1°16'20"	22.20'	S22°35'31"E
C7	22.20'	1000.00'	1°16'20"	22.20'	S22°35'31"E
C8	26.66'	1000.00'	1°31'38"	26.66'	S21°11'32"E
C9	26.66'	1000.00'	1°31'38"	26.65'	S21°11'32"E
C10	14.29'	1000.00'	0°49'07"	14.29'	S22°21'54"E
C11	24.69'	1000.00'	1°24'52"	24.69'	S23°28'54"E
C12	531.21'	2088.00'	14°34'36"	529.78'	S31°28'38"E
C13	1085.33'	2280.80'	27°15'52"	1075.12'	S52°23'52"E
C14	661.87'	2005.00'	18°54'50"	658.87'	S75°29'13"E
C15	24.55'	581.60'	2°25'08"	24.55'	S86°09'12"E

**VERTICAL DATUM:**  
 THE VERTICAL DATUM FOR THIS SURVEY IS NGVD 29 AND IS BASED ON SNOHOMISH COUNTY MONUMENT 127.  
 PUBLISHED ELEVATION: 35.853 (NAVD 88)  
 CONVERSION TO NGVD 29: 35.853-3.697=32.156 (NGVD 29)

**HORIZONTAL DATUM:**  
 THE HORIZONTAL DATUM FOR THIS SURVEY IS NAD 1983/91, WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE.



**SURVEYORS NOTE:**  
 THE EXISTING CONDITIONS SURVEY SHOWN HEREON WAS CREATED AND SURVEYED BY DAVID R. DOWNING AND ASSOCIATES. PARAMETRIX HAS NOT PERFORMED ANY SURVEY RELATED TASKS ON THIS SITE. SUBSEQUENT DESIGN AND MONUMENTS SHOWN BOTH FOR DATUM COORDINATES, BOUNDARY CALCULATIONS PLACE FULL RELIANCE ON THE SURVEY PROVIDED BY DAVID R. DOWNING AND ASSOCIATES.

SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO. \_\_\_\_\_



REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

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FILE NAME  
 PSI1598078P01T04-G3

JOB No.  
 554-1598-078 (01/05)

DATE  
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5-19-16

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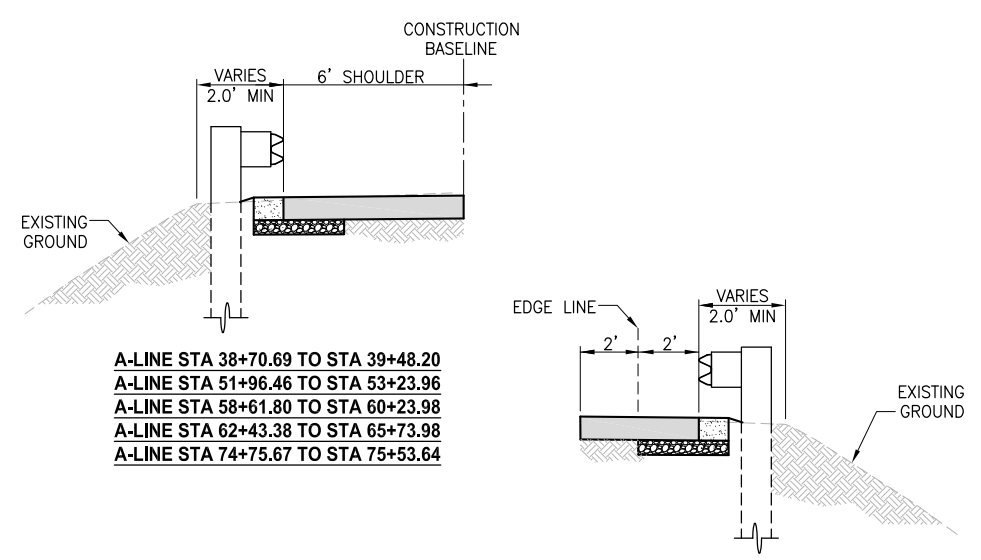
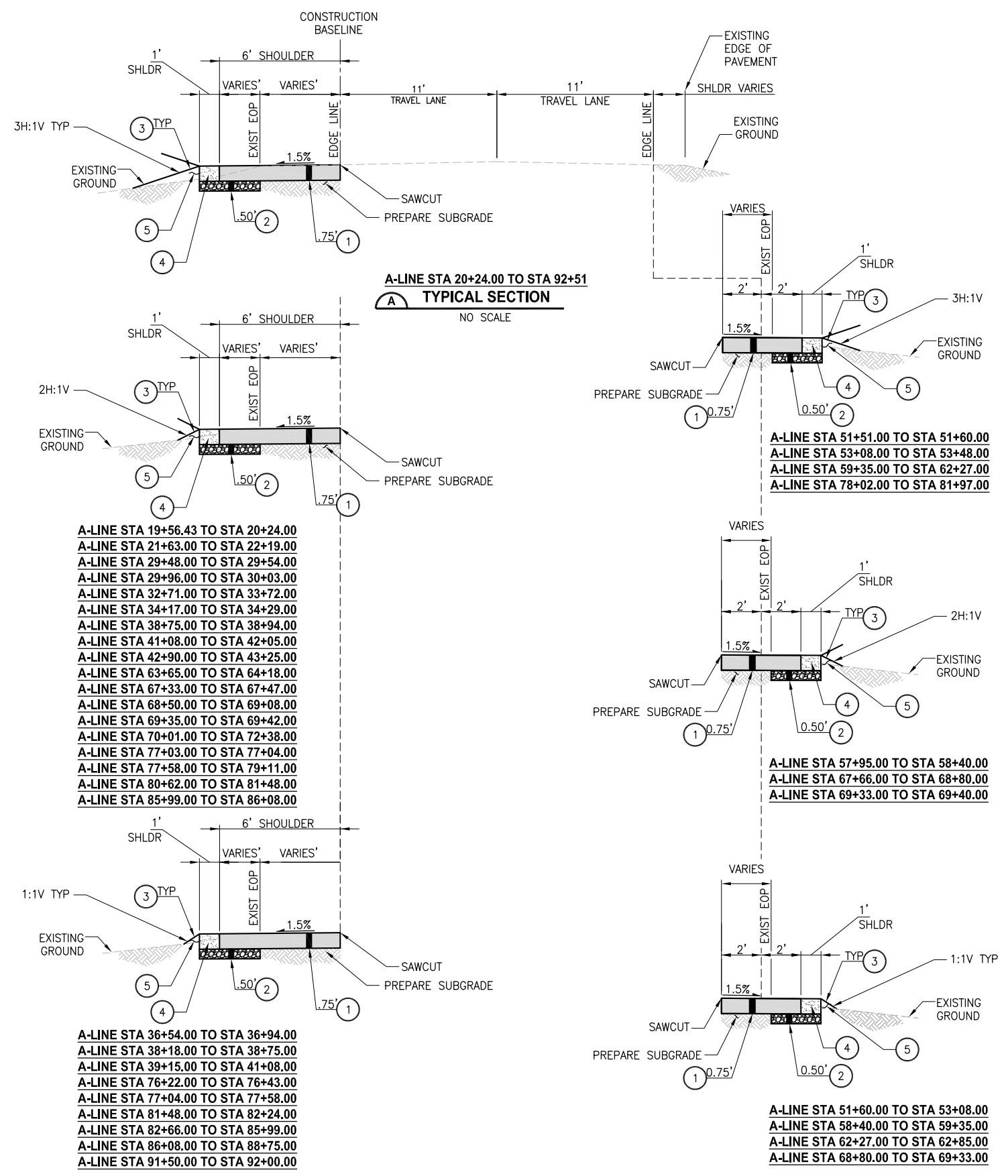
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 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**CONSTRUCTION BASELINE  
 AND SURVEY CONTROL**

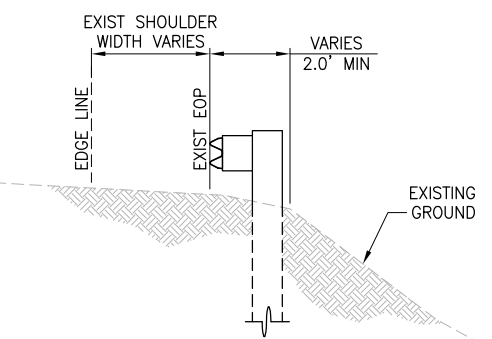
SHEET NO.  
 3 OF 40

**G3**

LAYOUT: RSI  
 PATH: U:\PSO\Projects\Clients\1598-Tulip Tribes\214-1598-078 Marine Drive Shoulder Improvements\995000\CaADD\Phase 01\Task 04\DWG\ PLOTTED BY: millerl DATE: Thursday, May 19, 2016 12:01:44 PM



**A-LINE TYPE 31 GUARDRAIL**  
**TYPICAL SECTION**  
 NO SCALE



- CONSTRUCTION NOTES:**
- HMA CL. 1/2" PG 64-22 WEARING COARSE ON TOP OF HMA CL. 1/2" PG 64-22.
  - CRUSHED SURFACING BASE COURSE.
  - 4" TOPSOIL TYPE A, SEEDING, FERTILIZING AND MULCHING. SEE GENERAL NOTE 4.
  - CRUSHED SURFACING TOP COURSE.
  - GRAVEL BORROW INCL. HAUL.

- GENERAL NOTES:**
- ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.
  - ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
  - SAWCUT SHALL PROVIDE CLEAN VERTICAL EDGE.
  - GRASS SEED, OF THE FOLLOWING COMPOSITION, PROPORTION AND QUALITY SHALL BE APPLIED AT THE RATE OF 80 LBS PER ACRE ON ALL AREAS REQUIRING ROADSIDE SEEDING WITHIN THE PROJECT:

KIND AND VARIETY OF SEED IN MIXTURE BY COMMON NAME AND (BOTANICAL NAME)	% BY WEIGHT
HARD FESCUE (FESTUCA OVINA)	45%
SHEEP FESCUE (FESTUCA OVINA L.)	20%
DUTCH WHITE CLOVER (TRIFOLIUM REPENS)	15%
SUPINA BLUEGRASS (POA SUPINE)	10%
CREeping RED FESCUE (FESTUCA RUBRA)	10%
TOTAL	100%

SEEDS SHALL BE CERTIFIED "WEED FREE," INDICATING THERE ARE NO NOXIOUS OR NUISANCE WEEDS IN THE SEED.

SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
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BY: \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO. \_\_\_\_\_



REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
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			J. DVORAK
			A. FISHER

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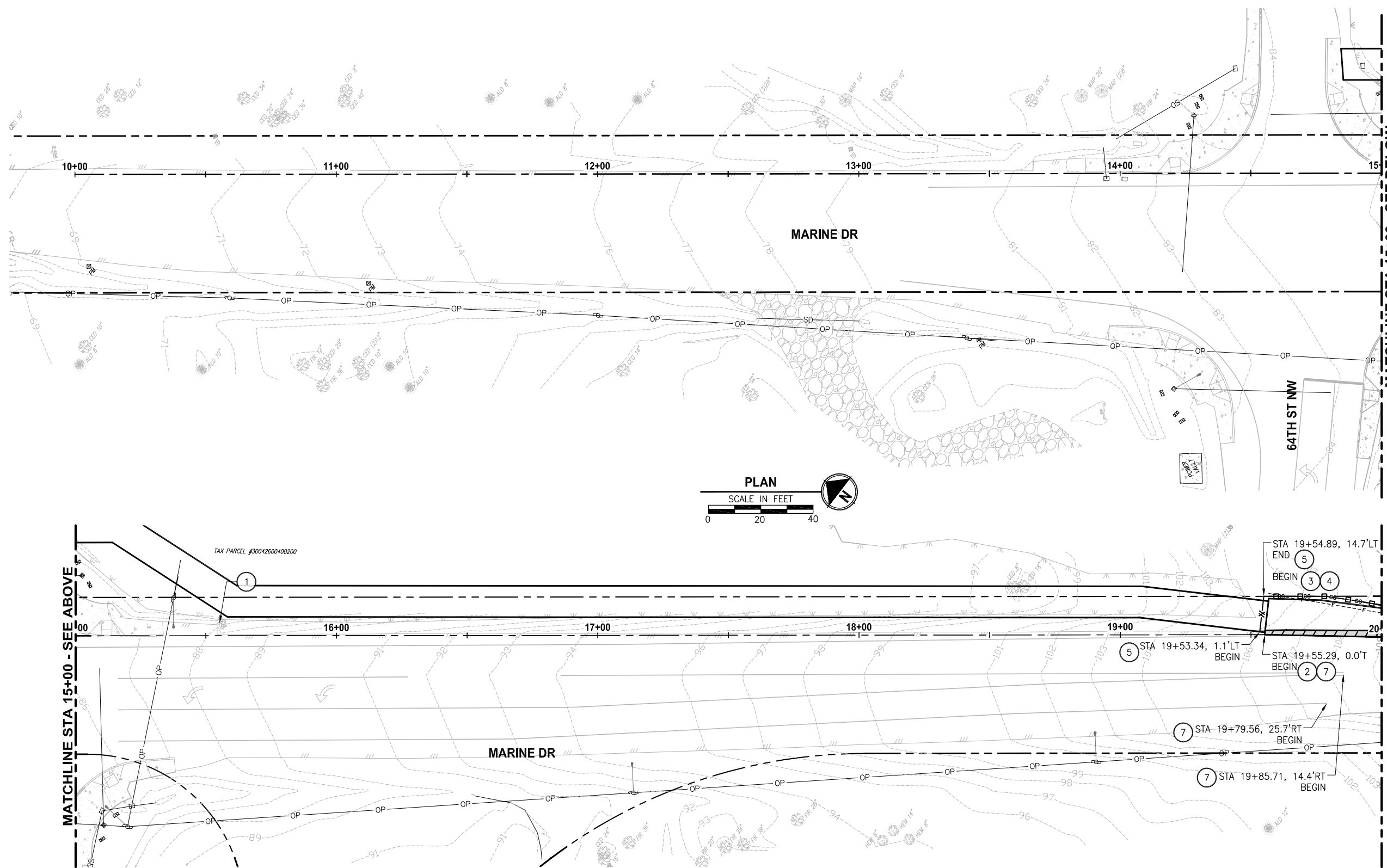
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**TYPICAL SECTIONS**

SHEET NO.  
 4 OF 40

**RS1**

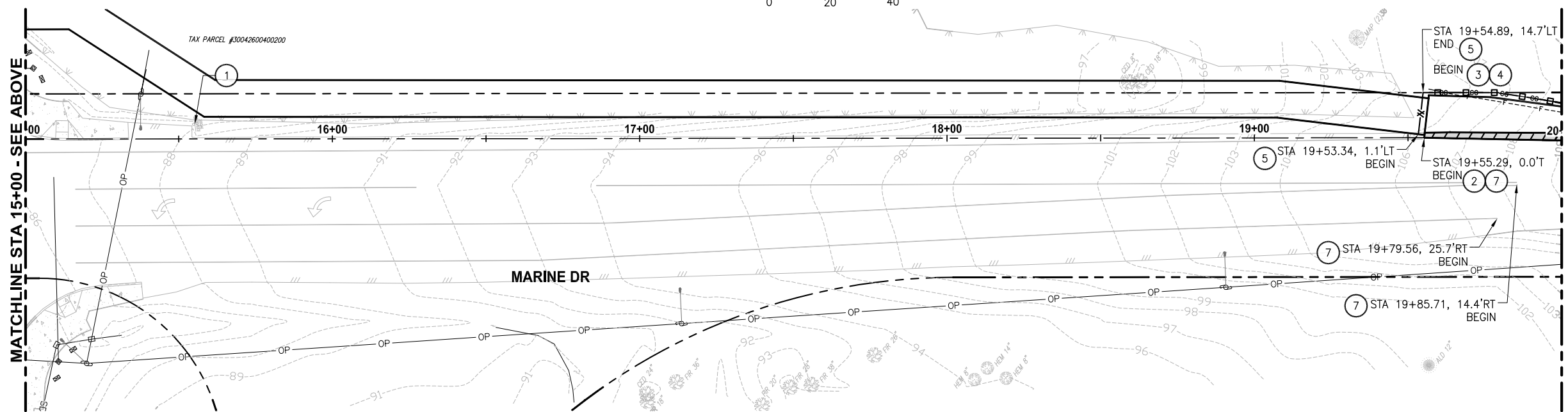
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MATCHLINE STA 15+00 - SEE BELOW

MATCHLINE STA 15+00 - SEE ABOVE

MATCHLINE STA 20+00 - SEE SHEET DM2



- CONSTRUCTION NOTES:**
- SEE CH SHEETS FOR SIGN MODIFICATIONS.
  - SAWCUT EXISTING ASPHALT CONC. PAVEMENT AT STATION SHOWN. SEE SHEET RS1 FOR GENERAL DIMENSIONS FROM EDGE OF PAVEMENT.
  - CLEARING AND GRUBBING
  - SILT FENCE PER WSDOT STD. PLAN I-30.15-02.
  - HIGH VISIBILITY SILT FENCE, PER WSDOT STD. PLAN I-30.17-00.
  - STRAW WATTLE, PER WSDOT STD. PLAN I-30.30-01.
  - REMOVE ALL EXISTING CHANNELIZATION WITHIN THE ENTIRE ROADWAY LIMITS.

- LEGEND:**
- REMOVE EXISTING ASPHALT CONC. PAVEMENT
  - PLANING BITUMINOUS PAVEMENT (2" DEPTH)
  - SAWCUT CLEARING AND GRUBBING LIMITS
  - SILT FENCE
  - HIGH VISIBILITY SILT FENCE
  - STRAW WATTLE

- GENERAL NOTES:**
- SILT FENCE SHALL FOLLOW CLEARING AND GRUBBING LIMITS UNLESS SHOWN OTHERWISE ON PLANS.
  - MAINTAIN ACCESS AT PRIVATE DRIVEWAYS DURING CONSTRUCTION AT ALL TIMES.
  - ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY.
  - SEE CH SHEETS FOR ALIGNMENT EQUATIONS.

SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
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			B. THOMAS
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 TULALIP, WASHINGTON

**DEMOLITION AND TESC PLAN  
 STA 10+00 TO STA 20+00**

SHEET NO.  
 5 OF 40


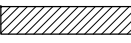
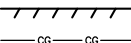
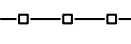


**DM1**



**CONSTRUCTION NOTES:**

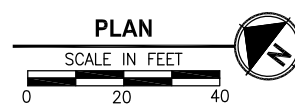
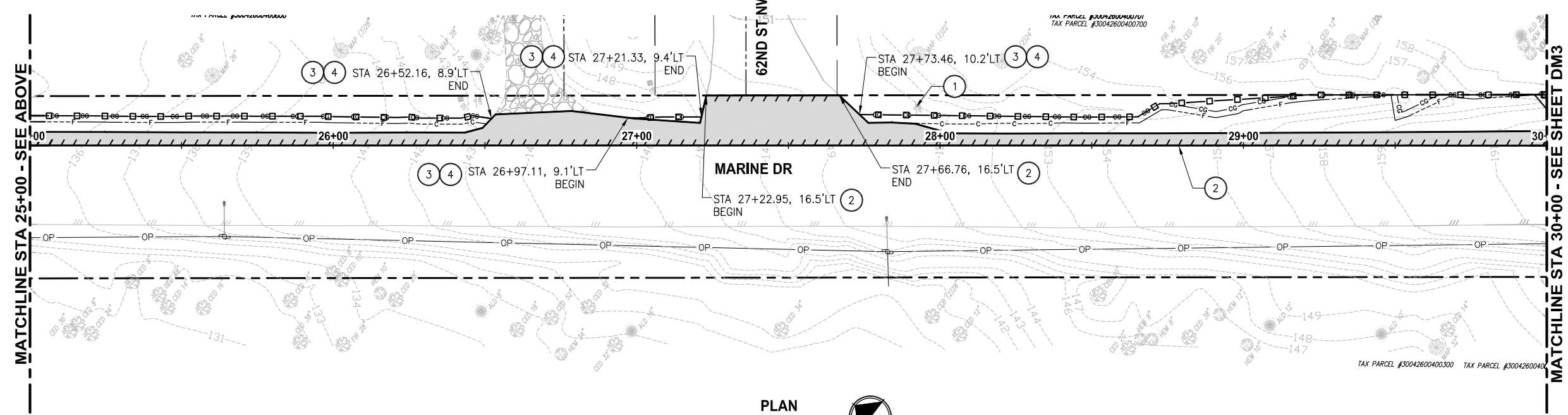
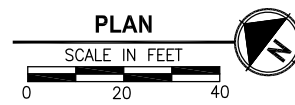
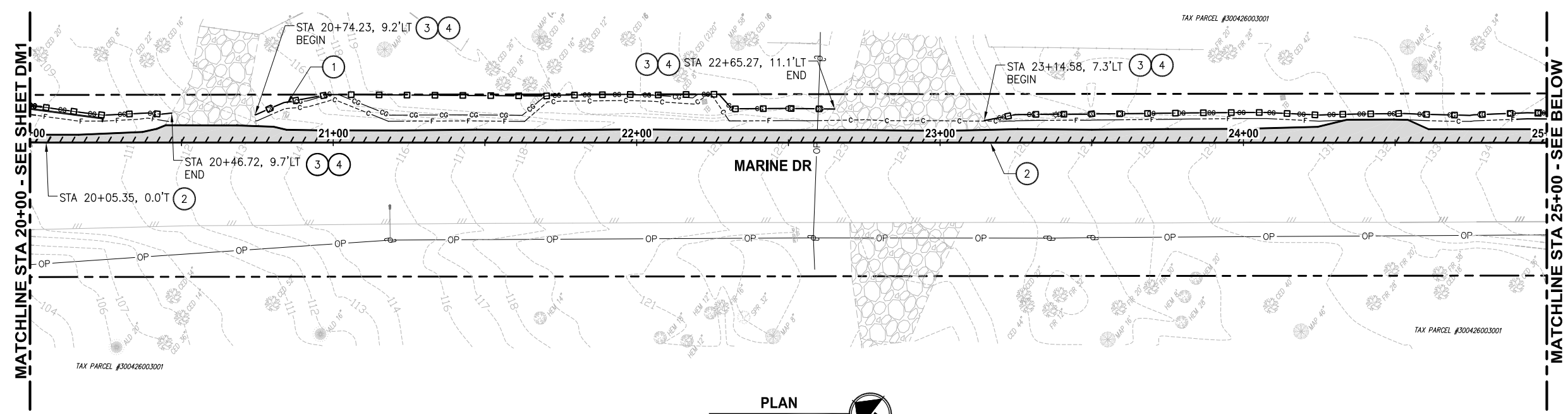
- 1 SEE CH SHEETS FOR SIGN MODIFICATIONS.
- 2 SAWCUT EXISTING ASPHALT CONC. PAVEMENT AT STATION SHOWN. SEE SHEET RS1 FOR GENERAL DIMENSIONS FROM EDGE OF PAVEMENT.
- 3 CLEARING AND GRUBBING
- 4 SILT FENCE PER WSDOT STD. PLAN I-30.15-02.
- 5 HIGH VISIBILITY SILT FENCE, PER WSDOT STD. PLAN I-30.17-00.
- 6 STRAW WATTLE, PER WSDOT STD. PLAN I-30.30-01.
- 7 REMOVE ALL EXISTING CHANNELIZATION WITHIN THE ENTIRE ROADWAY LIMITS.

**LEGEND:**

-  REMOVE EXISTING ASPHALT CONC. PAVEMENT
-  PLANING BITUMINOUS PAVEMENT (2" DEPTH)
-  SAWCUT CLEARING AND GRUBBING LIMITS
-  SILT FENCE
-  HIGH VISIBILITY SILT FENCE
-  STRAW WATTLE

**GENERAL NOTES:**

1. SILT FENCE SHALL FOLLOW CLEARING AND GRUBBING LIMITS UNLESS SHOWN OTHERWISE ON PLANS.
2. MAINTAIN ACCESS AT PRIVATE DRIVEWAYS DURING CONSTRUCTION AT ALL TIMES.
3. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY.
4. SEE CH SHEETS FOR ALIGNMENT EQUATIONS.



LAYOUT: DM2 PATH: C:\PAX\Temp\Pub\Pub\_9460\ PLOTTED BY: miller DATE: Thursday, May 19, 2016 12:06:02 PM

REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

**ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY**

FILE NAME: PSI598078P01T04-DM  
 JOB No: 554-1598-078 (01/05)  
 DATE: MAY 2016



5-19-16

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719 2ND AVENUE, SUITE 200 | SEATTLE, WA 98104  
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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO. \_\_\_\_\_

**DEMOLITION AND TESC PLAN  
 STA 20+00 TO STA 30+00**

**811**  
 Know what's below.  
 Call before you dig.


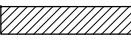
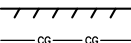
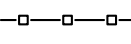


SHEET NO.  
 6 OF 40

**DM2**

**CONSTRUCTION NOTES:**

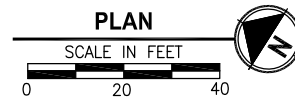
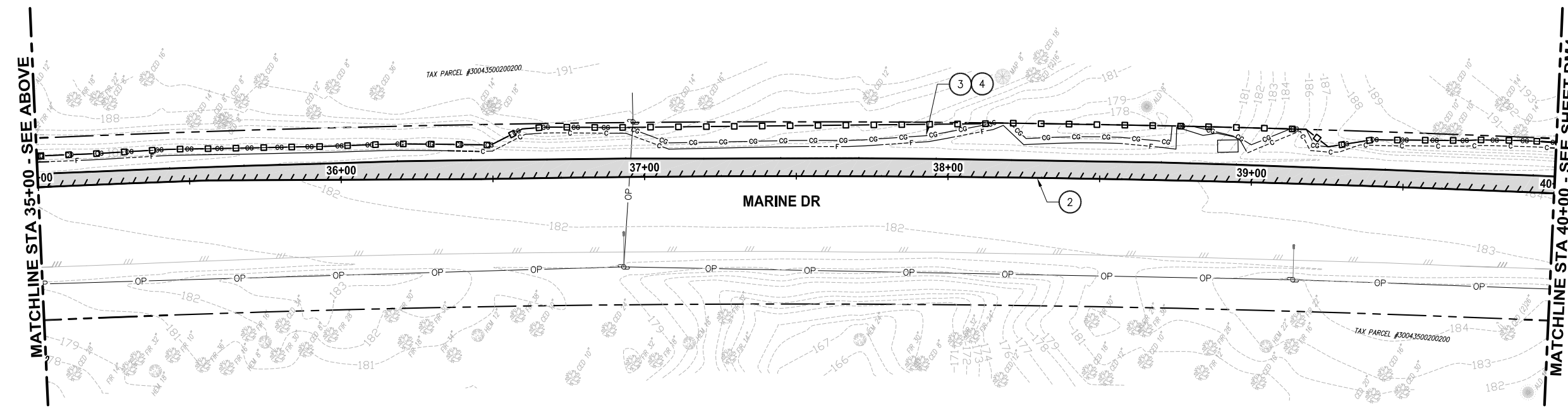
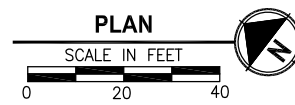
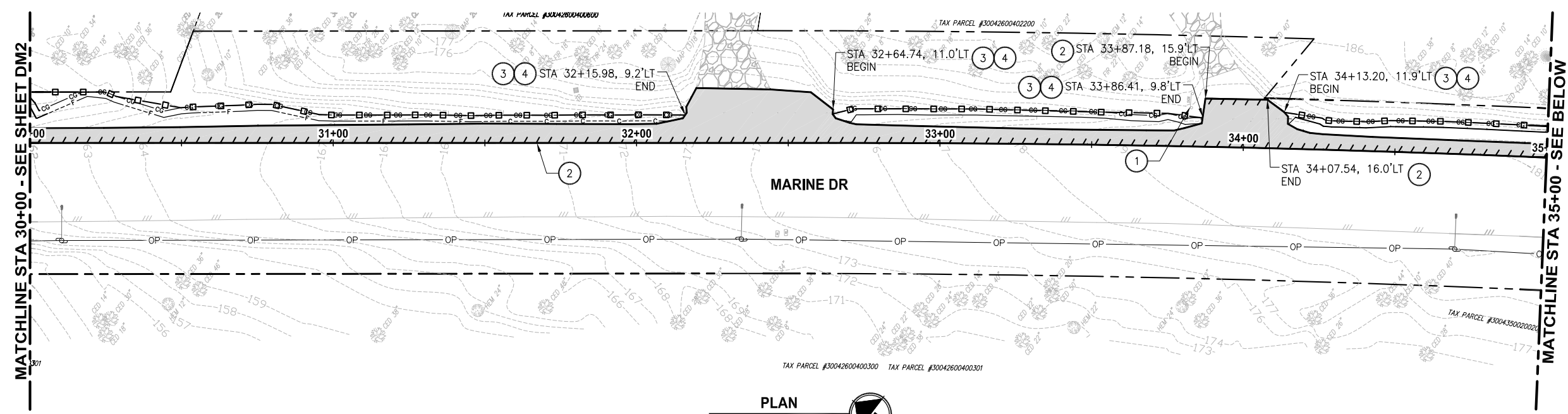
- 1 SEE CH SHEETS FOR SIGN MODIFICATIONS.
- 2 SAWCUT EXISTING ASPHALT CONC. PAVEMENT AT STATION SHOWN. SEE SHEET RS1 FOR GENERAL DIMENSIONS FROM EDGE OF PAVEMENT.
- 3 CLEARING AND GRUBBING
- 4 SILT FENCE PER WSDOT STD. PLAN I-30.15-02.
- 5 HIGH VISIBILITY SILT FENCE, PER WSDOT STD. PLAN I-30.17-00.
- 6 STRAW WATTLE, PER WSDOT STD. PLAN I-30.30-01.
- 7 REMOVE ALL EXISTING CHANNELIZATION WITHIN THE ENTIRE ROADWAY LIMITS.

**LEGEND:**

-  REMOVE EXISTING ASPHALT CONC. PAVEMENT
-  PLANING BITUMINOUS PAVEMENT (2" DEPTH)
-  SAWCUT CLEARING AND GRUBBING LIMITS
-  SILT FENCE
-  HIGH VISIBILITY SILT FENCE
-  STRAW WATTLE

**GENERAL NOTES:**

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2. MAINTAIN ACCESS AT PRIVATE DRIVEWAYS DURING CONSTRUCTION AT ALL TIMES.
3. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY.
4. SEE CH SHEETS FOR ALIGNMENT EQUATIONS.



SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION  
 BY \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO. \_\_\_\_\_

LAYOUT: DM3 PATH: C:\PAX\Temp\Pub\Pub\_9460\ PLOTTED BY: millennial DATE: Thursday, May 19, 2016 12:06:11 PM

REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

ONE INCH AT FULL SCALE.  
 IF NOT, SCALE ACCORDINGLY  
 FILE NAME  
 PS1598078P01T04-DM  
 JOB No.  
 554-1598-078 (01/05)  
 DATE  
 MAY 2016



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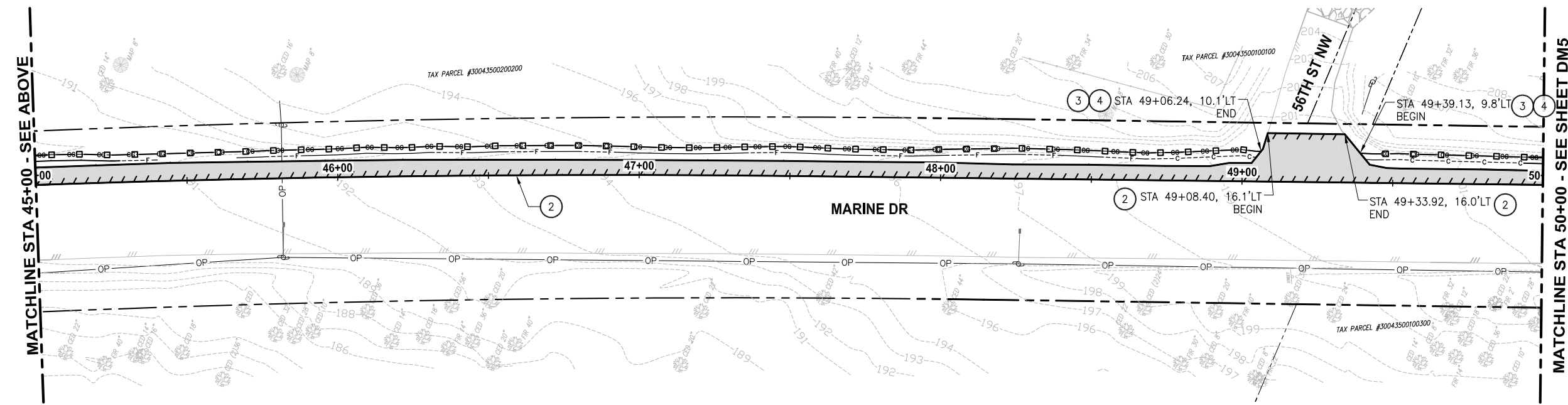
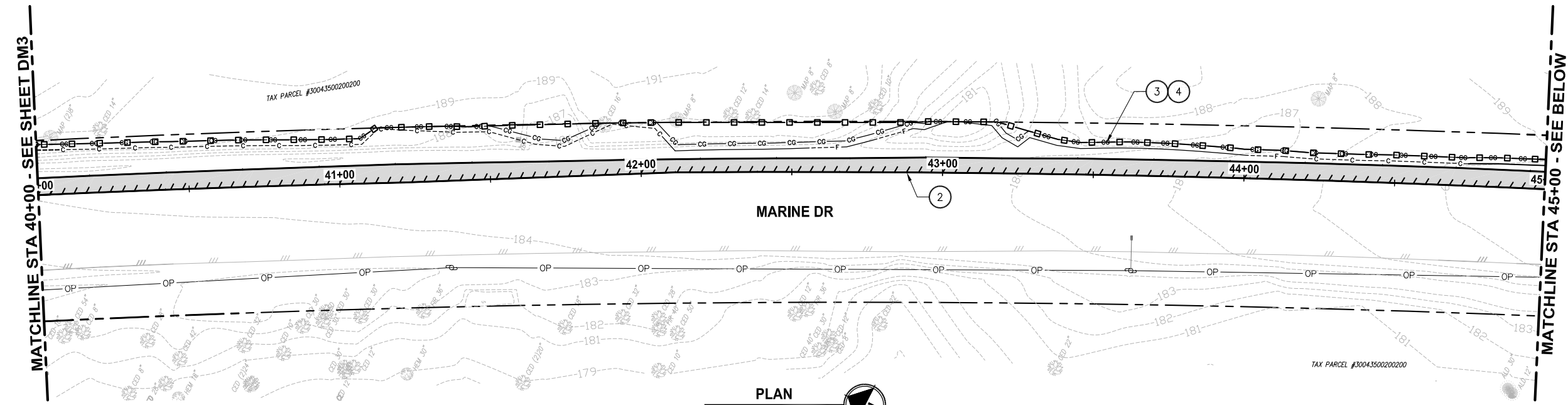
PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**DEMOLITION AND TESC PLAN  
 STA 30+00 TO STA 40+00**

SHEET NO.  
 7 OF 40  
**DM3**



LAYOUT: DM4  
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 PLOTTED BY: millenol DATE: Thursday, May 19, 2016 12:06:22 PM

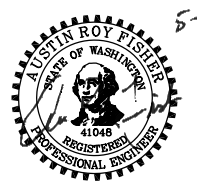


- CONSTRUCTION NOTES:**
- SEE CH SHEETS FOR SIGN MODIFICATIONS.
  - SAWCUT EXISTING ASPHALT CONC. PAVEMENT AT STATION SHOWN. SEE SHEET RS1 FOR GENERAL DIMENSIONS FROM EDGE OF PAVEMENT.
  - CLEARING AND GRUBBING
  - SILT FENCE PER WSDOT STD. PLAN I-30.15-02.
  - HIGH VISIBILITY SILT FENCE, PER WSDOT STD. PLAN I-30.17-00.
  - STRAW WATTLE, PER WSDOT STD. PLAN I-30.30-01.
  - REMOVE ALL EXISTING CHANNELIZATION WITHIN THE ENTIRE ROADWAY LIMITS.

- LEGEND:**
- REMOVE EXISTING ASPHALT CONC. PAVEMENT
  - PLANING BITUMINOUS PAVEMENT (2" DEPTH)
  - SAWCUT CLEARING AND GRUBBING LIMITS
  - SILT FENCE
  - HIGH VISIBILITY SILT FENCE
  - STRAW WATTLE

- GENERAL NOTES:**
- SILT FENCE SHALL FOLLOW CLEARING AND GRUBBING LIMITS UNLESS SHOWN OTHERWISE ON PLANS.
  - MAINTAIN ACCESS AT PRIVATE DRIVEWAYS DURING CONSTRUCTION AT ALL TIMES.
  - ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY.
  - SEE CH SHEETS FOR ALIGNMENT EQUATIONS.

SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION  
 BY \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO. \_\_\_\_\_



5-19-16

REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY  
 FILE NAME: PSI1598078P01T04-DM  
 JOB No: 554-1598-078 (01/05)  
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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**DEMOLITION AND TESC PLAN  
 STA 40+00 TO STA 50+00**

SHEET NO.  
 8 OF 40  
**DM4**


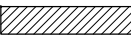
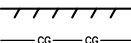
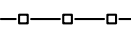






**CONSTRUCTION NOTES:**

- 1 SEE CH SHEETS FOR SIGN MODIFICATIONS.
- 2 SAWCUT EXISTING ASPHALT CONC. PAVEMENT AT STATION SHOWN. SEE SHEET RS1 FOR GENERAL DIMENSIONS FROM EDGE OF PAVEMENT.
- 3 CLEARING AND GRUBBING
- 4 SILT FENCE PER WSDOT STD. PLAN I-30.15-02.
- 5 HIGH VISIBILITY SILT FENCE, PER WSDOT STD. PLAN I-30.17-00.
- 6 STRAW WATTLE, PER WSDOT STD. PLAN I-30.30-01.
- 7 REMOVE ALL EXISTING CHANNELIZATION WITHIN THE ENTIRE ROADWAY LIMITS.

**LEGEND:**

-  REMOVE EXISTING ASPHALT CONC. PAVEMENT
-  PLANING BITUMINOUS PAVEMENT (2" DEPTH)
-  SAWCUT CLEARING AND GRUBBING LIMITS
-  SILT FENCE
-  HIGH VISIBILITY SILT FENCE
-  STRAW WATTLE

**GENERAL NOTES:**

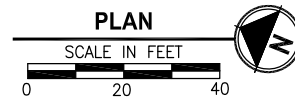
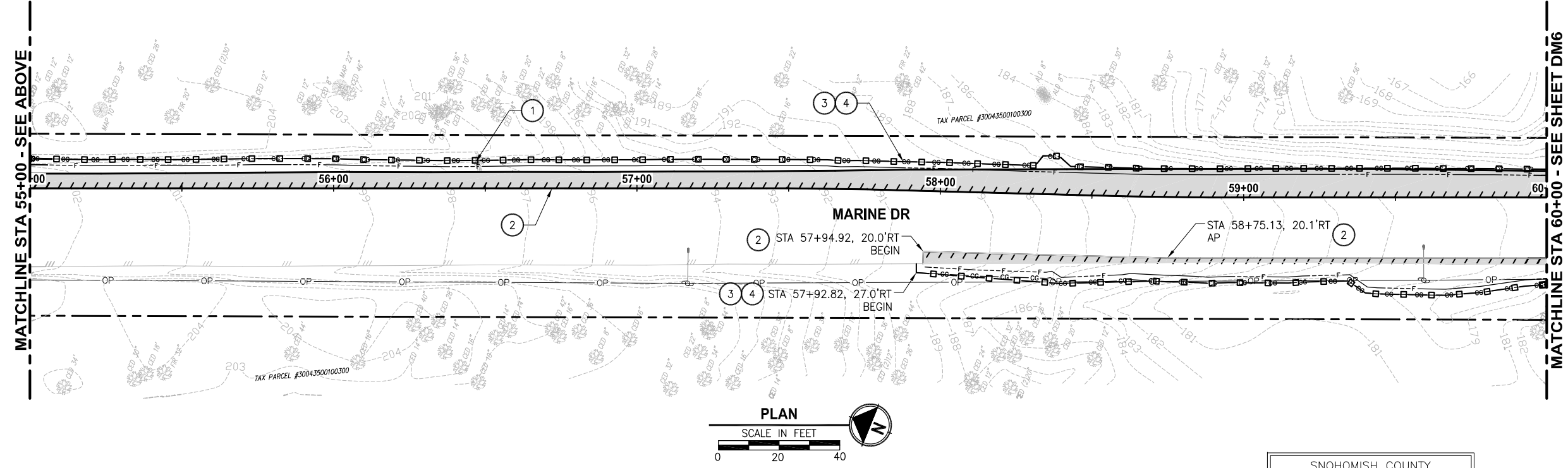
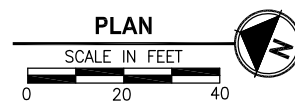
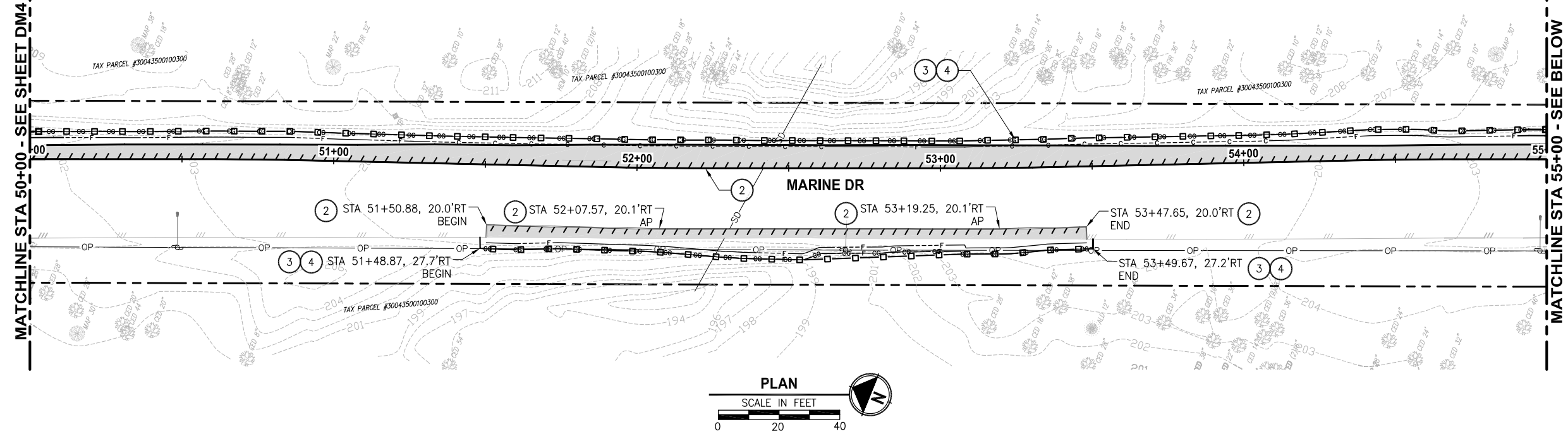
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4. SEE CH SHEETS FOR ALIGNMENT EQUATIONS.

MATCHLINE STA 50+00 - SEE SHEET DM4

MATCHLINE STA 55+00 - SEE BELOW

MATCHLINE STA 55+00 - SEE ABOVE

MATCHLINE STA 60+00 - SEE SHEET DM6



SNOHOMISH COUNTY  
PLANNING DEVELOPMENT SERVICES  
APPROVED FOR CONSTRUCTION  
BY \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.  
ROW PERMIT NO. \_\_\_\_\_

LAYOUT: DM5 PATH: C:\PAX\Temp\Pub\Pub\_9460\ PLOTTED BY: millerol DATE: Thursday, May 19, 2016 12:06:32 PM

REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY  
FILE NAME: PS1598078P01T04-DM  
JOB No: 554-1598-078 (01/05)  
DATE: MAY 2016



5-19-16

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P 206.394.3700  
WWW.PARAMETRIX.COM

PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
THE TULALIP TRIBES**  
TULALIP, WASHINGTON

**DEMOLITION AND TESC PLAN  
STA 50+00 TO STA 60+00**


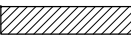
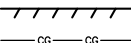
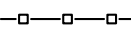


SHEET NO.  
9 OF 40  
**DM5**



**CONSTRUCTION NOTES:**

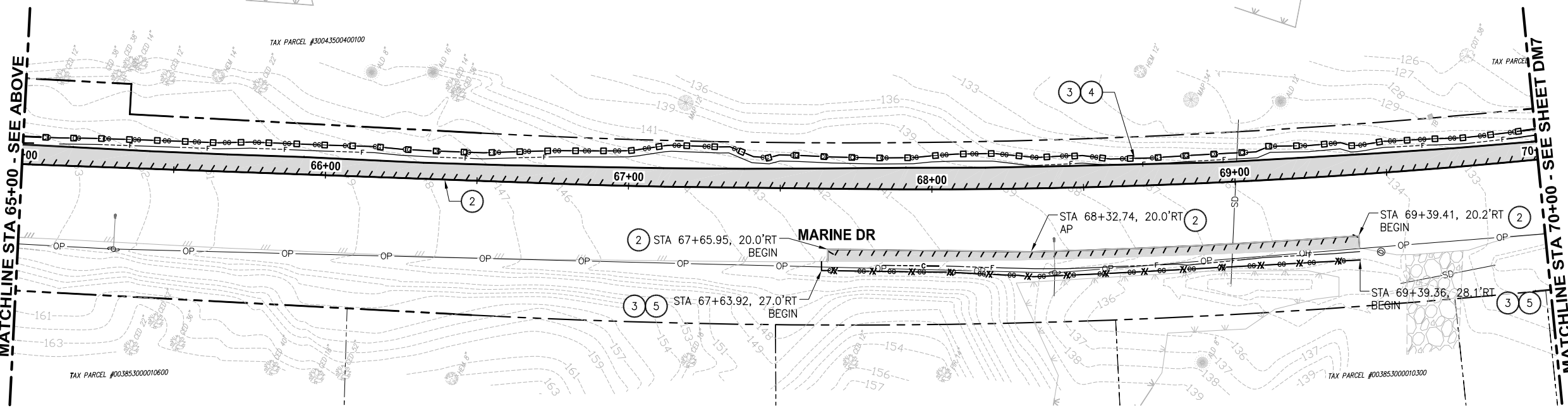
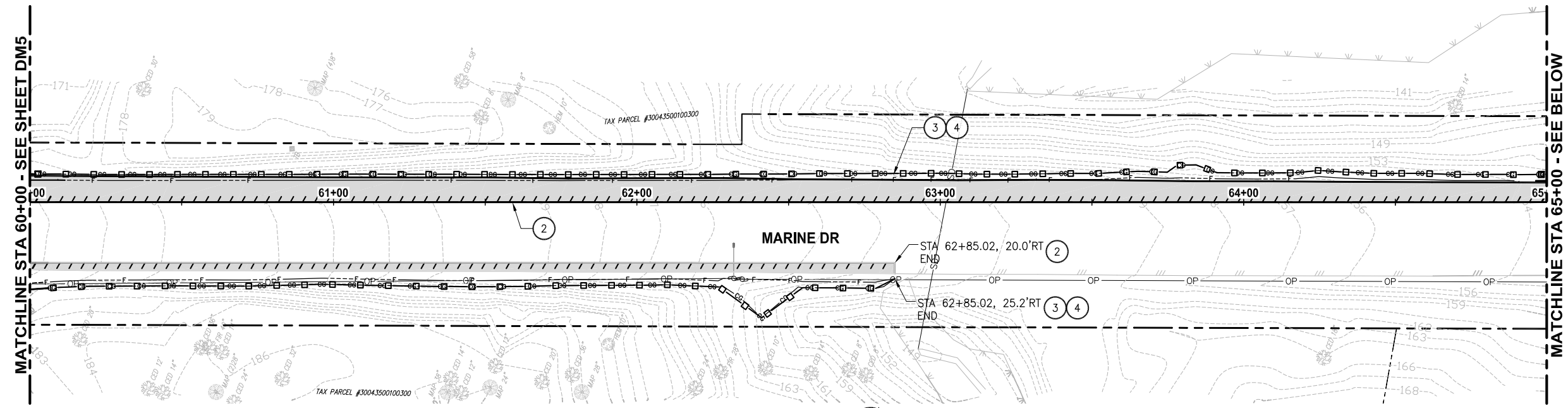
- 1 SEE CH SHEETS FOR SIGN MODIFICATIONS.
- 2 SAWCUT EXISTING ASPHALT CONC. PAVEMENT AT STATION SHOWN. SEE SHEET RS1 FOR GENERAL DIMENSIONS FROM EDGE OF PAVEMENT.
- 3 CLEARING AND GRUBBING
- 4 SILT FENCE PER WSDOT STD. PLAN I-30.15-02.
- 5 HIGH VISIBILITY SILT FENCE, PER WSDOT STD. PLAN I-30.17-00.
- 6 STRAW WATTLE, PER WSDOT STD. PLAN I-30.30-01.
- 7 REMOVE ALL EXISTING CHANNELIZATION WITHIN THE ENTIRE ROADWAY LIMITS.

**LEGEND:**

-  REMOVE EXISTING ASPHALT CONC. PAVEMENT
-  PLANING BITUMINOUS PAVEMENT (2" DEPTH)
-  SAWCUT CLEARING AND GRUBBING LIMITS
-  SILT FENCE
-  HIGH VISIBILITY SILT FENCE
-  STRAW WATTLE

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SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION  
 BY \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO. \_\_\_\_\_

LAYOUT: DM6 PATH: C:\PAX\Temp\publish\_9460\ PLOTTED BY: millenol DATE: Thursday, May 19, 2016 12:06:41 PM

REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

ONE INCH AT FULL SCALE.  
 IF NOT, SCALE ACCORDINGLY  
 FILE NAME: PS1598078P01T04-DM  
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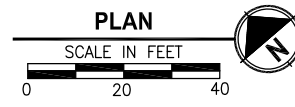
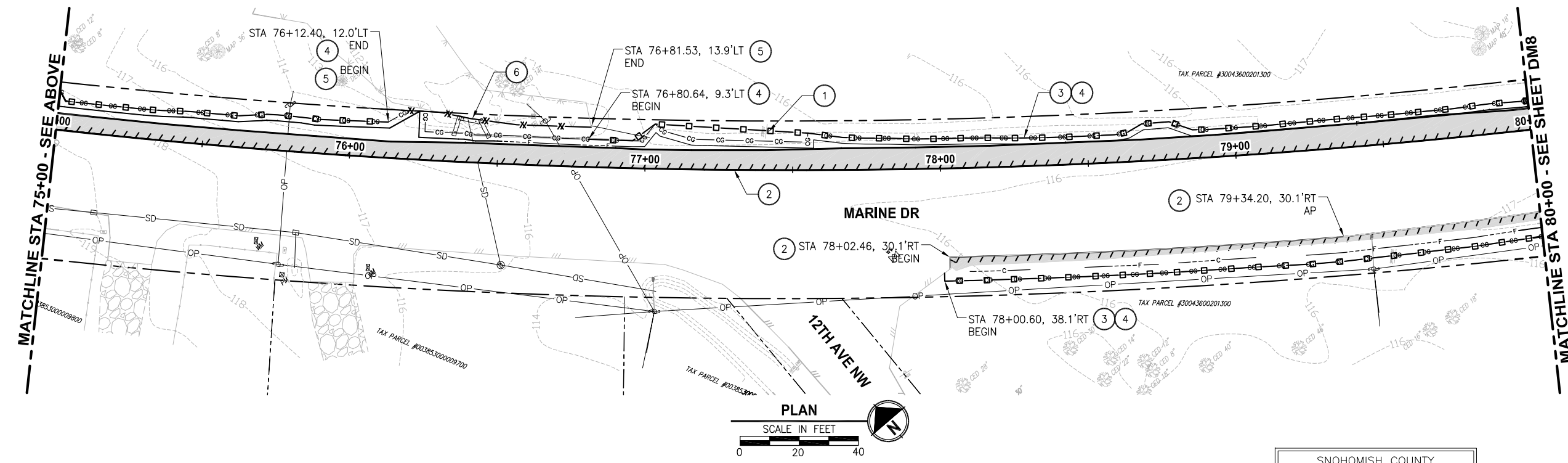
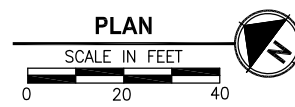
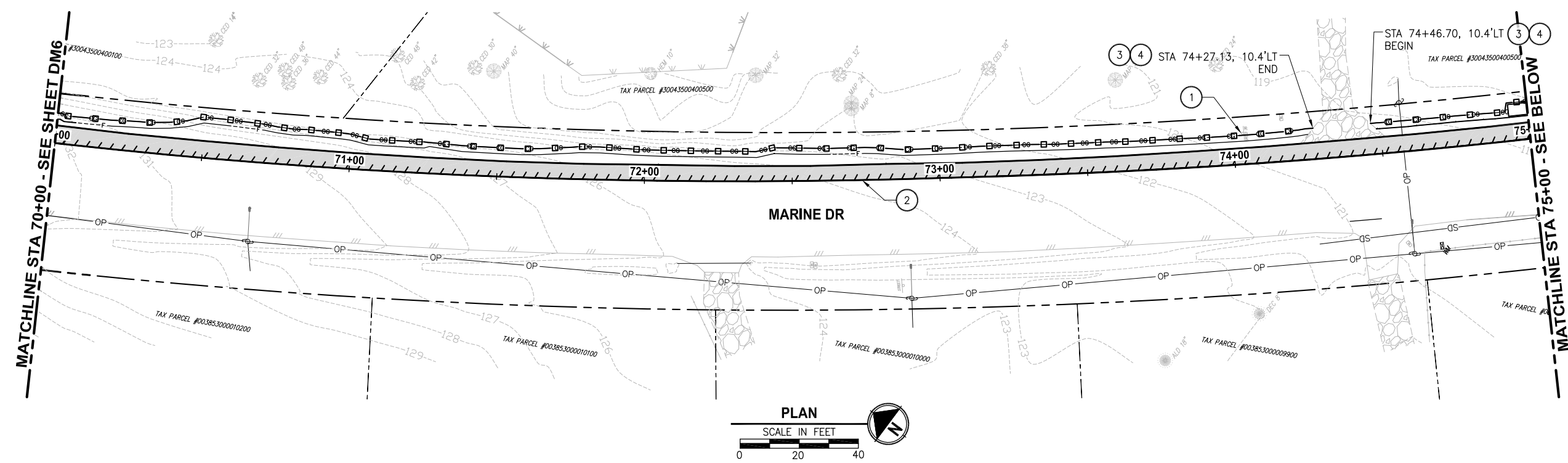
PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**DEMOLITION AND TESC PLAN  
 STA 60+00 TO STA 70+00**

SHEET NO.  
 10 OF 40  
**DM6**



LAYOUT: DM7  
 PATH: C:\PMX\Temp\Pub\9460\ PLOTTED BY: millerol DATE: Thursday, May 19, 2016 12:06:51 PM



**CONSTRUCTION NOTES:**

- 1 SEE CH SHEETS FOR SIGN MODIFICATIONS.
- 2 SAWCUT EXISTING ASPHALT CONC. PAVEMENT AT STATION SHOWN. SEE SHEET RS1 FOR GENERAL DIMENSIONS FROM EDGE OF PAVEMENT.
- 3 CLEARING AND GRUBBING
- 4 SILT FENCE PER WSDOT STD. PLAN I-30.15-02.
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- 7 REMOVE ALL EXISTING CHANNELIZATION WITHIN THE ENTIRE ROADWAY LIMITS.

**LEGEND:**

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SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION  
 BY \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO. \_\_\_\_\_

REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

ONE INCH AT FULL SCALE.  
 IF NOT, SCALE ACCORDINGLY  
 FILE NAME  
 PSI1598078P01T04-DM  
 JOB No.  
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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**DEMOLITION AND TESC PLAN  
 STA 70+00 TO STA 80+00**


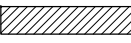
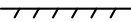
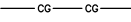
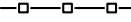

SHEET NO.  
 11 OF 40  
**DM7**



**CONSTRUCTION NOTES:**

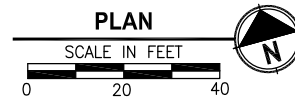
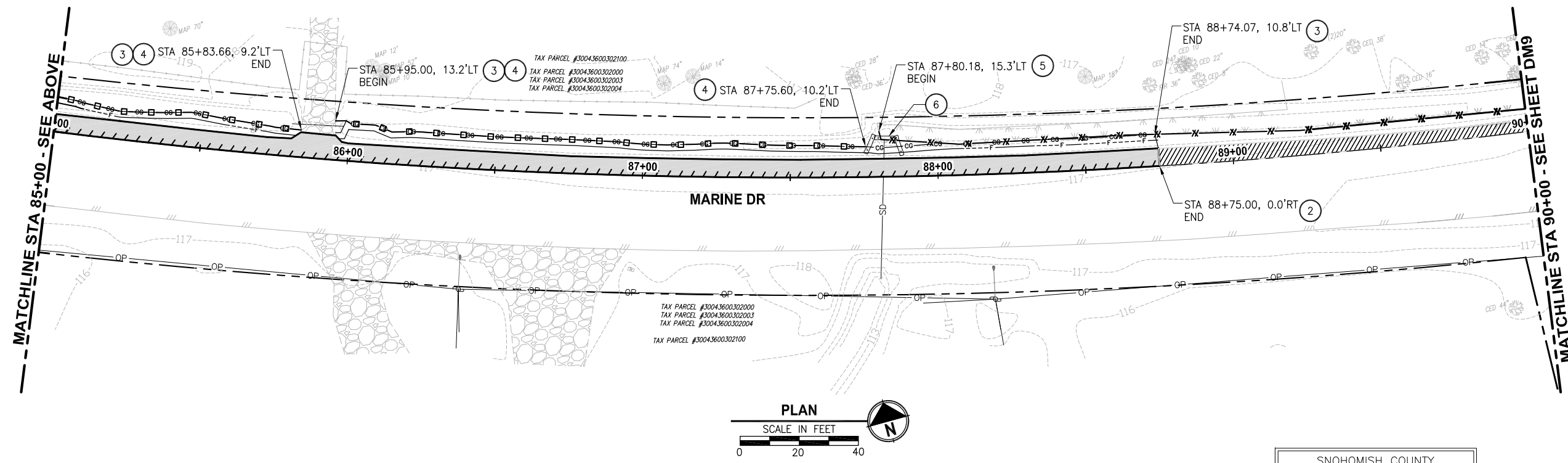
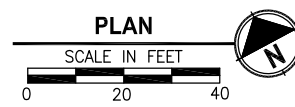
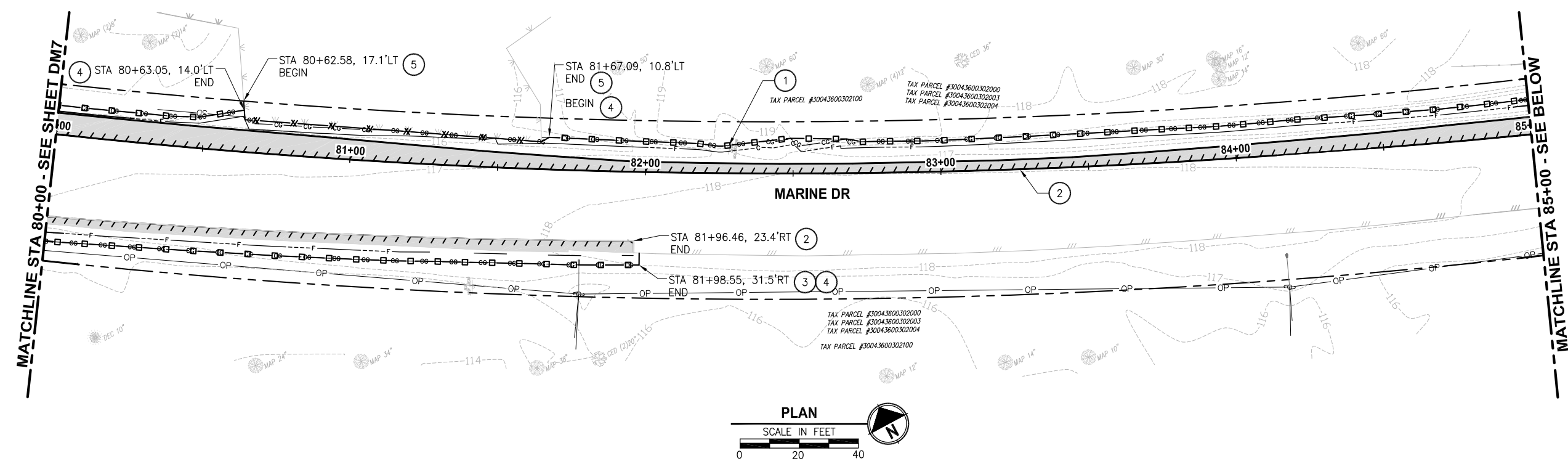
- 1 SEE CH SHEETS FOR SIGN MODIFICATIONS.
- 2 SAWCUT EXISTING ASPHALT CONC. PAVEMENT AT STATION SHOWN. SEE SHEET RS1 FOR GENERAL DIMENSIONS FROM EDGE OF PAVEMENT.
- 3 CLEARING AND GRUBBING
- 4 SILT FENCE PER WSDOT STD. PLAN I-30.15-02.
- 5 HIGH VISIBILITY SILT FENCE, PER WSDOT STD. PLAN I-30.17-00.
- 6 STRAW WATTLE, PER WSDOT STD. PLAN I-30.30-01.
- 7 REMOVE ALL EXISTING CHANNELIZATION WITHIN THE ENTIRE ROADWAY LIMITS.

**LEGEND:**

-  REMOVE EXISTING ASPHALT CONC. PAVEMENT
-  PLANNING BITUMINOUS PAVEMENT (2" DEPTH)
-  SAWCUT CLEARING AND GRUBBING LIMITS
-  SILT FENCE
-  HIGH VISIBILITY SILT FENCE
-  STRAW WATTLE

**GENERAL NOTES:**

1. SILT FENCE SHALL FOLLOW CLEARING AND GRUBBING LIMITS UNLESS SHOWN OTHERWISE ON PLANS.
2. MAINTAIN ACCESS AT PRIVATE DRIVEWAYS DURING CONSTRUCTION AT ALL TIMES.
3. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY.
4. SEE CH SHEETS FOR ALIGNMENT EQUATIONS.



SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION  
 BY \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO. \_\_\_\_\_

LAYOUT: DM8 PATH: C:\PAX\Temp\Pub\Pub\_9460\ PLOTTED BY: millenol DATE: Thursday, May 19, 2016 12:06:59 PM

REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

ONE INCH AT FULL SCALE.  
 IF NOT, SCALE ACCORDINGLY.  
 FILE NAME: PSI1598078P01T04-DM  
 JOB No: 554-1598-078 (01/05)  
 DATE: MAY 2016



5-19-16

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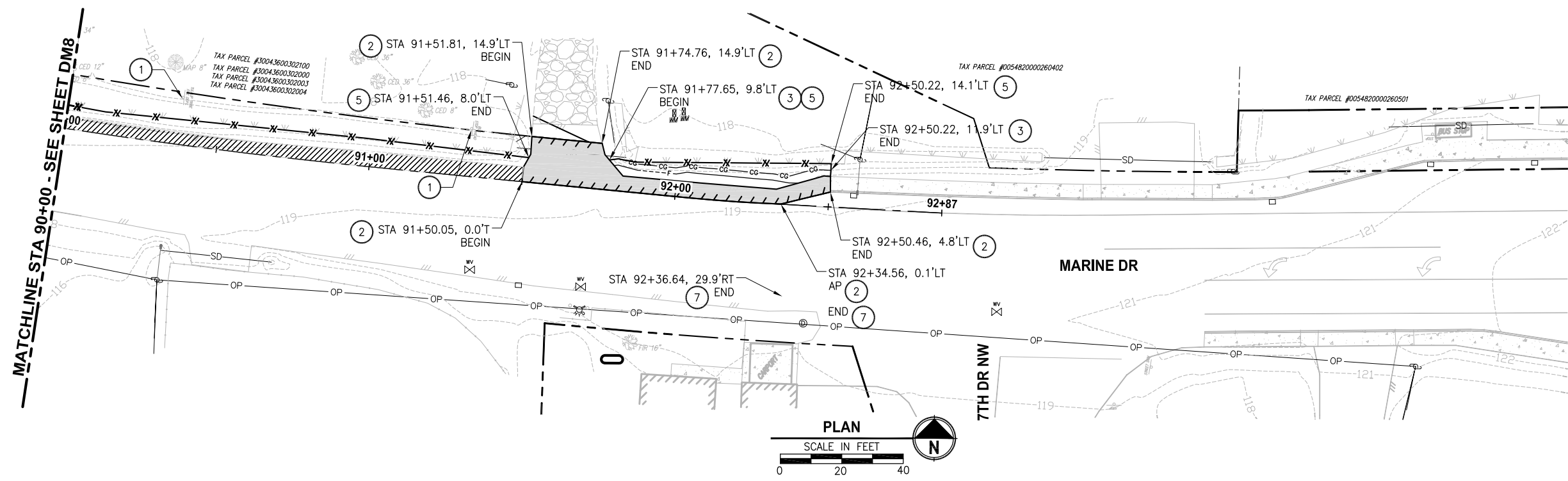
PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**DEMOLITION AND TESC PLAN  
 STA 80+00 TO STA 90+00**

SHEET NO.  
 12 OF 40  
**DM8**



LAYOUT: DM9 PATH: C:\PAX\Temp\publish\_9460\ PLOTTED BY: millerom DATE: Thursday, May 19, 2016 12:07:06 PM



**CONSTRUCTION NOTES:**

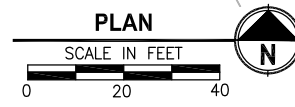
- ① SEE CH SHEETS FOR SIGN MODIFICATIONS.
- ② SAWCUT EXISTING ASPHALT CONC. PAVEMENT AT STATION SHOWN. SEE SHEET RS1 FOR GENERAL DIMENSIONS FROM EDGE OF PAVEMENT.
- ③ CLEARING AND GRUBBING
- ④ SILT FENCE PER WSDOT STD. PLAN I-30.15-02.
- ⑤ HIGH VISIBILITY SILT FENCE, PER WSDOT STD. PLAN I-30.17-00.
- ⑥ STRAW WATTLE, PER WSDOT STD. PLAN I-30.30-01.
- ⑦ REMOVE ALL EXISTING CHANNELIZATION WITHIN THE ENTIRE ROADWAY LIMITS.

**LEGEND:**

- REMOVE EXISTING ASPHALT CONC. PAVEMENT
- PLANING BITUMINOUS PAVEMENT (2" DEPTH)
- SAWCUT CLEARING AND GRUBBING LIMITS
- SILT FENCE
- HIGH VISIBILITY SILT FENCE
- STRAW WATTLE

**GENERAL NOTES:**

1. SILT FENCE SHALL FOLLOW CLEARING AND GRUBBING LIMITS UNLESS SHOWN OTHERWISE ON PLANS.
2. MAINTAIN ACCESS AT PRIVATE DRIVEWAYS DURING CONSTRUCTION AT ALL TIMES.
3. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY.
4. SEE CH SHEETS FOR ALIGNMENT EQUATIONS.



SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION  
 BY \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO. \_\_\_\_\_



REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

ONE INCH AT FULL SCALE.  
 IF NOT, SCALE ACCORDINGLY  
 FILE NAME  
 PSI1598078P01T04-DM  
 JOB No.  
 54-1598-078 (01/05)  
 DATE  
 MAY 2016

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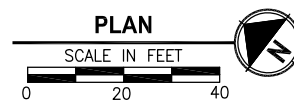
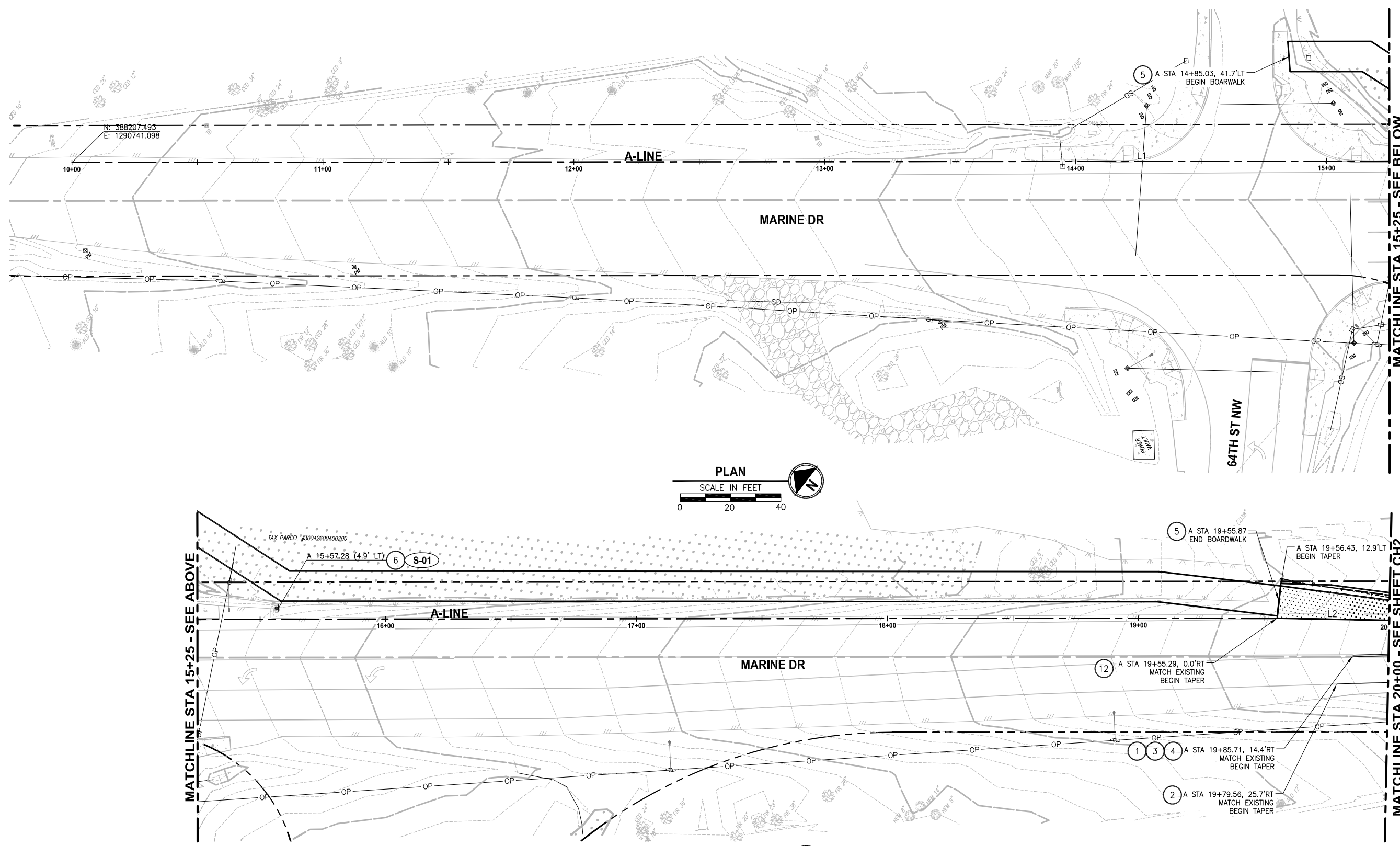
PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**DEMOLITION AND TESC PLAN  
 STA 90+00 TO END OF PROJECT**

SHEET NO.  
 13 OF 40  
**DM9**



PATH: C:\PMX\Temp\AcPublish\_9460\ PLOTTED BY: millenol DATE: Thursday, May 19, 2016 12:05:49 PM LAYOUT: CH1



- CONSTRUCTION NOTES:**
- 1 DOUBLE NO PASS PAINT CENTER LINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
  - 2 MMA (TYPE D) PROFILED PLASTIC EDGE LINE PER WSDOT STD. PLAN M-20.20-02.
  - 3 CENTERLINE RUMBLE STRIP PER WSDOT STD. PLAN M-65.10-02.
  - 4 RECESSED PAVEMENT MARKER PER WSDOT STD. PLAN M-20.30-03.
  - 5 BOARDWALK WITH RAILING. SEE S SHEETS
  - 6 NEW SIGN AND POST. SEE SHEET CH9 FOR SIGN SCHEDULE AND DETAILS.
  - 7 BEAM GUARDRAIL TYPE 31 W/ 11-FOOT STEEL POSTS PER WSDOT STD. PLAN C-20.10-03
  - 8 BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL PER WSDOT STD. PLAN C-22.40-04
  - 9 LEFT TURN-USE ARROW PER SNOHOMISH COUNTY STANDARD DRAWING 7-130.
  - 10 RPMs (ARTERIAL) PER SNOHOMISH COUNTY STANDARD DRAWING 7-090.
  - 11 RMPs (ARTERIAL) NO PASS CENTERLINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
  - 12 MMA (TYPE D) PROFILED PLASTIC WIDE LINE PER WSDOT STD. PLAN M-20.20-02.
  - 13 NOT USED
  - 14 MMA (TYPE D) PLASTIC DOTTED LANE LINE PER WSDOT STD. PLAN M-20.10-02.

- GENERAL NOTES:**
1. TYPICAL ROADWAY SECTIONS ARE ON SHEET RS1.
  2. ALIGNMENT LINE AND CURVE DATA ARE ON SHEET G3.
  3. SEE DRIVEWAY TRANSITION DETAIL ON SHEET RS1 FOR MATCHING ASPHALT PAVEMENT TO EXISTING DRIVEWAY PAVEMENT.
  4. APPROXIMATE STATIONS PROVIDED. CONTRACTOR SHALL VERIFY IN THE FIELD PRIOR TO INSTALLING PAVEMENT MARKING.

- LEGEND:**
- FILL
  - CUT
  - GRAVEL
  - BOARDWALK
  - NEW HMA SEE SHEET RS1
  - 2" PLANE AND OVERLAY, SEE SHEET RS1

SNOHOMISH COUNTY  
TRAFFIC ENGINEER  
APPROVED FOR CONSTRUCTION  
BY: JIM BLOODGOOD, P.E.

REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY  
FILE NAME: PS1598078P01T04-CH  
JOB No: 554-1598-078 (01/05)  
DATE: MAY 2016



5-19-16

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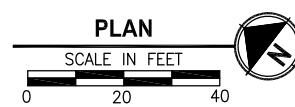
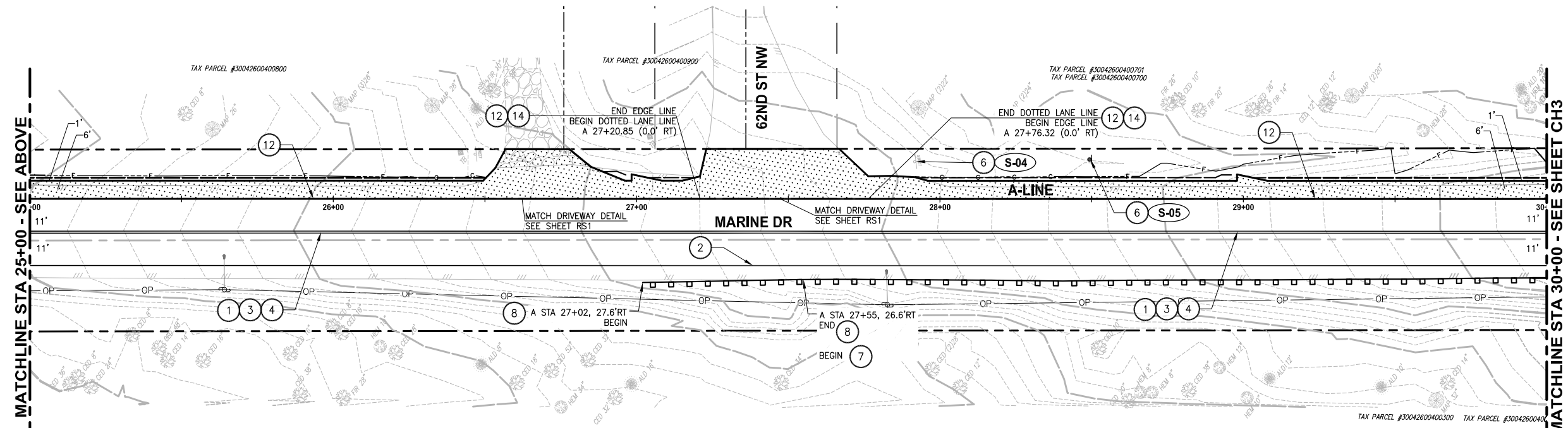
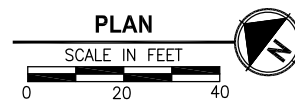
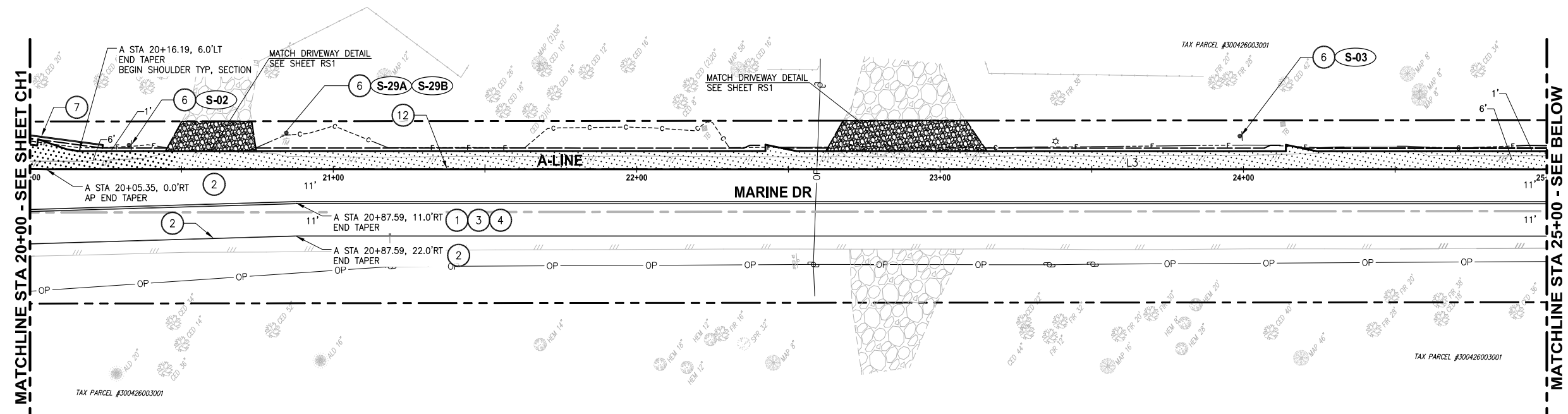
PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
THE TULALIP TRIBES**  
TULALIP, WASHINGTON

**CHANNELIZATION, PAVING,  
ILLUMINATION, AND SIGNING PLAN  
STA 10+00 TO STA 20+00**

SHEET NO.  
14 OF 40  
**CH1**



PATH: C:\PMX\Temp\Pub\9460\ PLOTTED BY: millennial DATE: Thursday, May 19, 2016 12:10:05 PM LAYOUT: CH2



**CONSTRUCTION NOTES:**

- 1 DOUBLE NO PASS PAINT CENTER LINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
- 2 MMA (TYPE D) PROFILED PLASTIC EDGE LINE PER WSDOT STD. PLAN M-20.20-02.
- 3 CENTERLINE RUMBLE STRIP PER WSDOT STD. PLAN M-65.10-02.
- 4 RECESSED PAVEMENT MARKER PER WSDOT STD. PLAN M-20.30-03.
- 5 BOARDWALK WITH RAILING. SEE S SHEETS
- 6 NEW SIGN AND POST. SEE SHEET CH9 FOR SIGN SCHEDULE AND DETAILS.
- 7 BEAM GUARDRAIL TYPE 31 W/ 11-FOOT STEEL POSTS PER WSDOT STD. PLAN C-20.10-03.
- 8 BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL PER WSDOT STD. PLAN C-22.40-04.
- 9 LEFT TURN-USE ARROW PER SNOHOMISH COUNTY STANDARD DRAWING 7-130.
- 10 RPMs (ARTERIAL) PER SNOHOMISH COUNTY STANDARD DRAWING 7-090.
- 11 RMPs (ARTERIAL) NO PASS CENTERLINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
- 12 MMA (TYPE D) PROFILED PLASTIC WIDE LINE PER WSDOT STD. PLAN M-20.20-02.
- 13 NOT USED
- 14 MMA (TYPE D) PLASTIC DOTTED LANE LINE PER WSDOT STD. PLAN M-20.10-02.

**GENERAL NOTES:**

1. TYPICAL ROADWAY SECTIONS ARE ON SHEET RS1.
2. ALIGNMENT LINE AND CURVE DATA ARE ON SHEET G3.
3. SEE DRIVEWAY TRANSITION DETAIL ON SHEET RS1 FOR MATCHING ASPHALT PAVEMENT TO EXISTING DRIVEWAY PAVEMENT.
4. APPROXIMATE STATIONS PROVIDED. CONTRACTOR SHALL VERIFY IN THE FIELD PRIOR TO INSTALLING PAVEMENT MARKING.

**LEGEND:**

---	FILL
---	CUT
---	GRAVEL
---	BOARDWALK
---	NEW HMA SEE SHEET RS1
---	2" PLANE AND OVERLAY, SEE SHEET RS1

SNOHOMISH COUNTY  
TRAFFIC ENGINEER  
APPROVED FOR CONSTRUCTION  
BY: \_\_\_\_\_  
JIM BLOODGOOD, P.E.

REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY  
FILE NAME: PS1598078P01T04-CH  
JOB No: 554-1598-078 (01/05)  
DATE: MAY 2016



5-19-16

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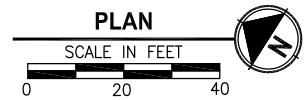
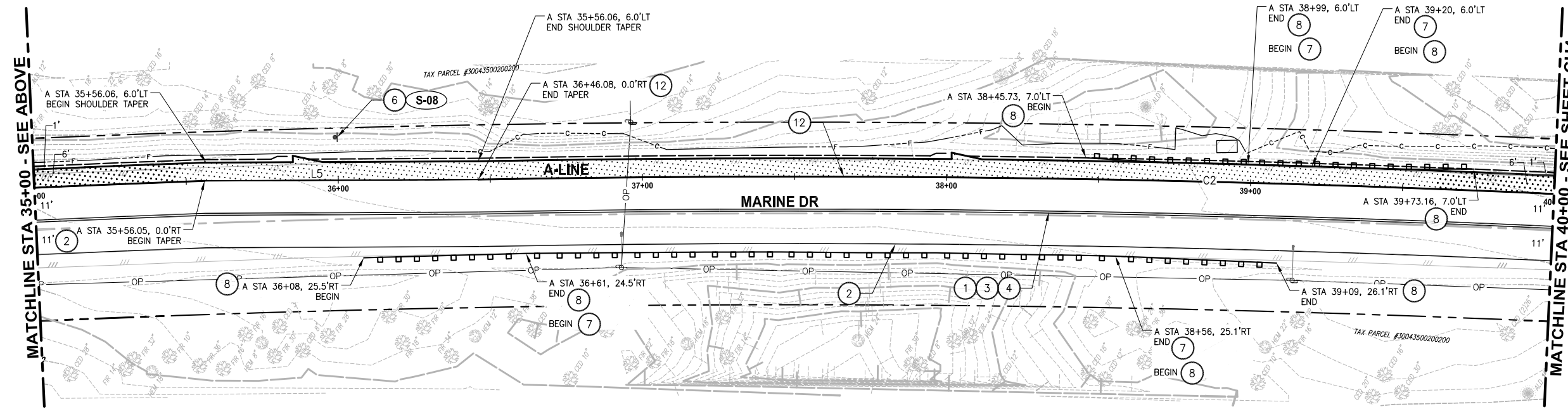
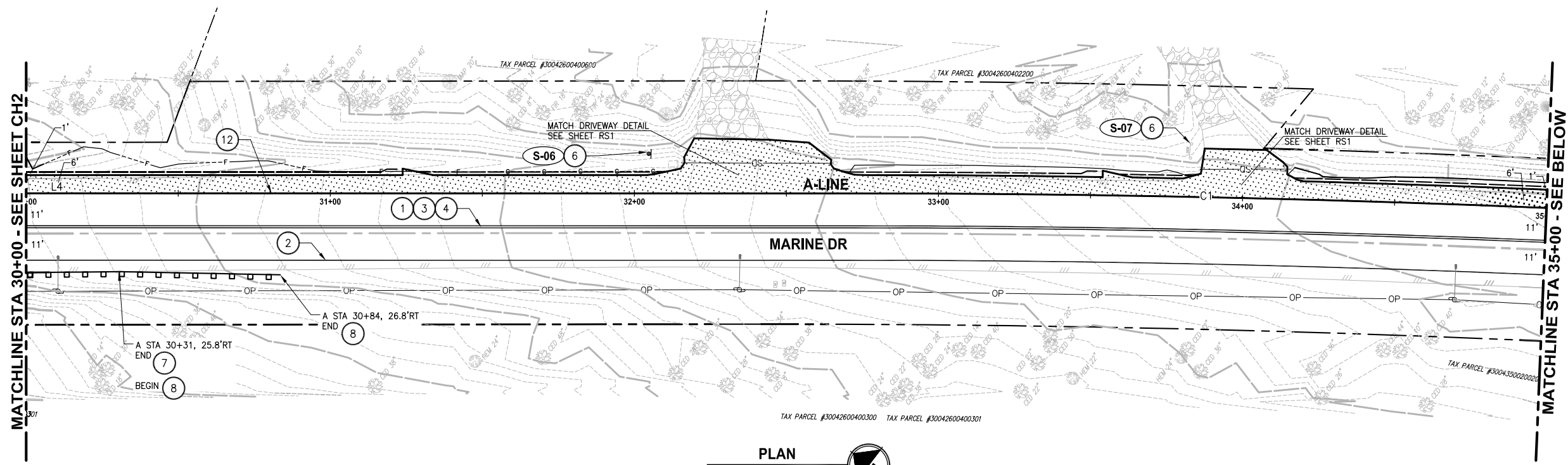
PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
THE TULALIP TRIBES**  
TULALIP, WASHINGTON

**CHANNELIZATION, PAVING,  
ILLUMINATION, AND SIGNING PLAN**  
STA 20+00 TO STA 30+00

SHEET NO.  
15 OF 40  
**CH2**



LAYOUT: CH3  
 PATH: C:\PMX\Temp\Pub\9460\ PLOTTED BY: millennial DATE: Thursday, May 19, 2016 12:10:14 PM



- CONSTRUCTION NOTES:**
- DOUBLE NO PASS PAINT CENTER LINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
  - MMA (TYPE D) PROFILED PLASTIC EDGE LINE PER WSDOT STD. PLAN M-20.20-02.
  - CENTERLINE RUMBLE STRIP PER WSDOT STD. PLAN M-65.10-02.
  - RECESSED PAVEMENT MARKER PER WSDOT STD. PLAN M-20.30-03.
  - BOARDWALK WITH RAILING. SEE S SHEETS
  - NEW SIGN AND POST. SEE SHEET CH9 FOR SIGN SCHEDULE AND DETAILS.
  - BEAM GUARDRAIL TYPE 31 W/ 11-FOOT STEEL POSTS PER WSDOT STD. PLAN C-20.10-03.
  - BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL PER WSDOT STD. PLAN C-22.40-04.
  - LEFT TURN-USE ARROW PER SNOHOMISH COUNTY STANDARD DRAWING 7-130.
  - RPMs (ARTERIAL) PER SNOHOMISH COUNTY STANDARD DRAWING 7-090.
  - RMPs (ARTERIAL) NO PASS CENTERLINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
  - MMA (TYPE D) PROFILED PLASTIC WIDE LINE PER WSDOT STD. PLAN M-20.20-02.
  - NOT USED
  - MMA (TYPE D) PLASTIC DOTTED LANE LINE PER WSDOT STD. PLAN M-20.10-02.

- GENERAL NOTES:**
- TYPICAL ROADWAY SECTIONS ARE ON SHEET RS1.
  - ALIGNMENT LINE AND CURVE DATA ARE ON SHEET G3.
  - SEE DRIVEWAY TRANSITION DETAIL ON SHEET RS1 FOR MATCHING ASPHALT PAVEMENT TO EXISTING DRIVEWAY PAVEMENT.
  - APPROXIMATE STATIONS PROVIDED. CONTRACTOR SHALL VERIFY IN THE FIELD PRIOR TO INSTALLING PAVEMENT MARKING.

- LEGEND:**
- FILL
  - CUT
  - GRAVEL
  - BOARDWALK
  - NEW HMA SEE SHEET RS1
  - 2" PLANE AND OVERLAY, SEE SHEET RS1

SNOHOMISH COUNTY  
 TRAFFIC ENGINEER  
 APPROVED FOR CONSTRUCTION  
 BY: JIM BLOODGOOD, P.E.



REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

ONE INCH AT FULL SCALE.  
 IF NOT, SCALE ACCORDINGLY

FILE NAME: PS1598078P01T04-CH  
 JOB No: 554-1598-078 (01/05)  
 DATE: MAY 2016



5-19-16

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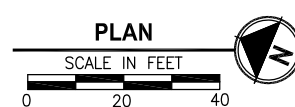
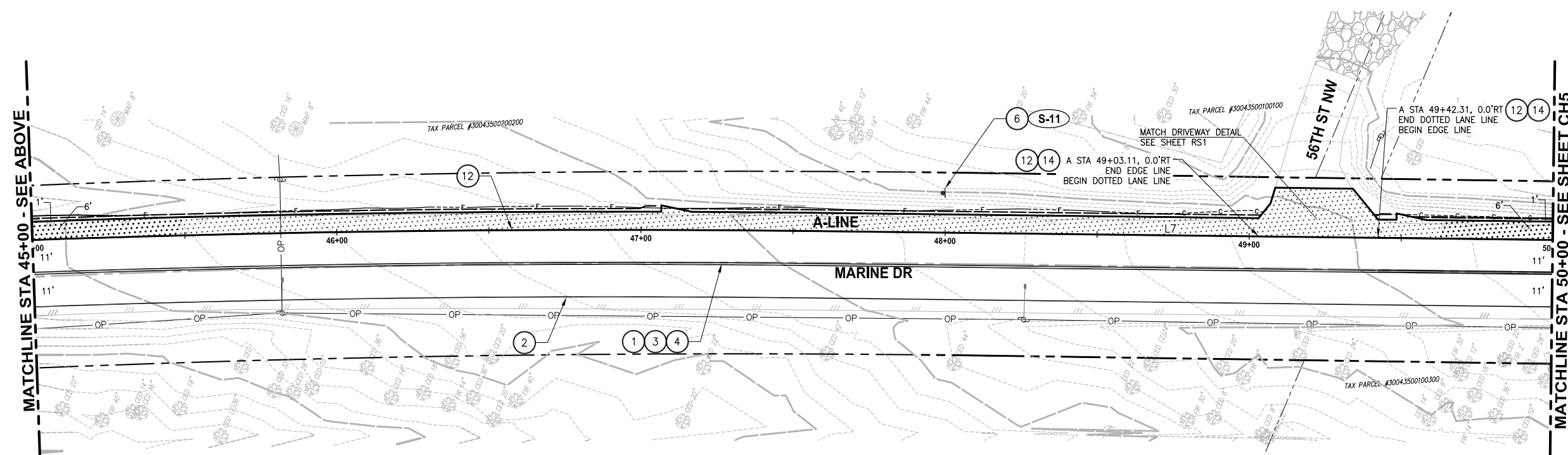
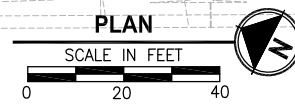
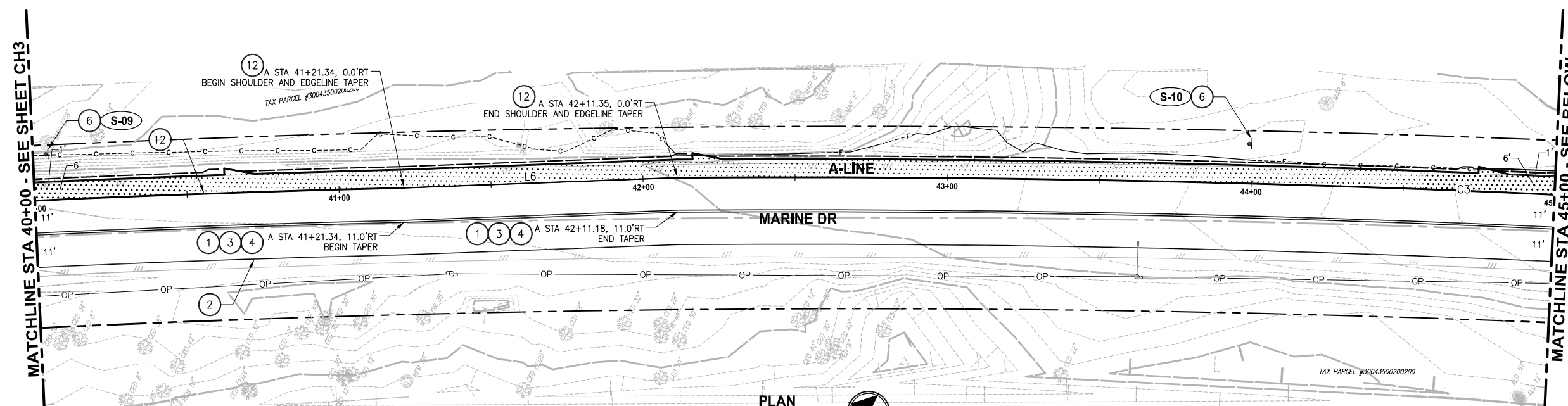
PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW**  
 THE TULALIP TRIBES  
 TULALIP, WASHINGTON

**CHANNELIZATION, PAVING,  
 ILLUMINATION, AND SIGNING PLAN**  
 STA 30+00 TO STA 40+00

SHEET NO.  
 16 OF 40  
**CH3**



LAYOUT: CH4  
 PATH: C:\PAX\Temp\Pub\Pub\_9460\  
 PLOTTED BY: millennial DATE: Thursday, May 19, 2016 12:10:23 PM



**CONSTRUCTION NOTES:**

- 1 DOUBLE NO PASS PAINT CENTER LINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
- 2 MMA (TYPE D) PROFILED PLASTIC EDGE LINE PER WSDOT STD. PLAN M-20.20-02.
- 3 CENTERLINE RUMBLE STRIP PER WSDOT STD. PLAN M-65.10-02.
- 4 RECESSED PAVEMENT MARKER PER WSDOT STD. PLAN M-20.30-03.
- 5 BOARDWALK WITH RAILING. SEE S SHEETS
- 6 NEW SIGN AND POST. SEE SHEET CH9 FOR SIGN SCHEDULE AND DETAILS.
- 7 BEAM GUARDRAIL TYPE 31 W/ 11-FOOT STEEL POSTS PER WSDOT STD. PLAN C-20.10-03.
- 8 BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL PER WSDOT STD. PLAN C-22.40-04.
- 9 LEFT TURN-USE ARROW PER SNOHOMISH COUNTY STANDARD DRAWING 7-130.
- 10 RPMs (ARTERIAL) PER SNOHOMISH COUNTY STANDARD DRAWING 7-090.
- 11 RMPs (ARTERIAL) NO PASS CENTERLINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
- 12 MMA (TYPE D) PROFILED PLASTIC WIDE LINE PER WSDOT STD. PLAN M-20.20-02.
- 13 NOT USED
- 14 MMA (TYPE D) PROFILED PLASTIC DOTTED LANE LINE PER WSDOT STD. PLAN M-20.10-02.

**GENERAL NOTES:**

1. TYPICAL ROADWAY SECTIONS ARE ON SHEET RS1.
2. ALIGNMENT LINE AND CURVE DATA ARE ON SHEET G3.
3. SEE DRIVEWAY TRANSITION DETAIL ON SHEET RS1 FOR MATCHING ASPHALT PAVEMENT TO EXISTING DRIVEWAY PAVEMENT.
4. APPROXIMATE STATIONS PROVIDED. CONTRACTOR SHALL VERIFY IN THE FIELD PRIOR TO INSTALLING PAVEMENT MARKING.

**LEGEND:**

---	FILL
- - -	CUT
- - -	GRAVEL
---	BOARDWALK
---	NEW HMA SEE SHEET RS1
---	2" PLANE AND OVERLAY, SEE SHEET RS1

SNOHOMISH COUNTY  
 TRAFFIC ENGINEER  
 APPROVED FOR CONSTRUCTION  
 BY: \_\_\_\_\_  
 JIM BLOODGOOD, P.E.

REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

ONE INCH AT FULL SCALE.  
 IF NOT, SCALE ACCORDINGLY  
 FILE NAME  
 PS1598078P01T04-CH  
 JOB No.  
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5-19-16

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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**CHANNELIZATION, PAVING,  
 ILLUMINATION, AND SIGNING PLAN**  
 STA 40+00 TO STA 50+00

SHEET NO.  
 17 OF 40  
**CH4**



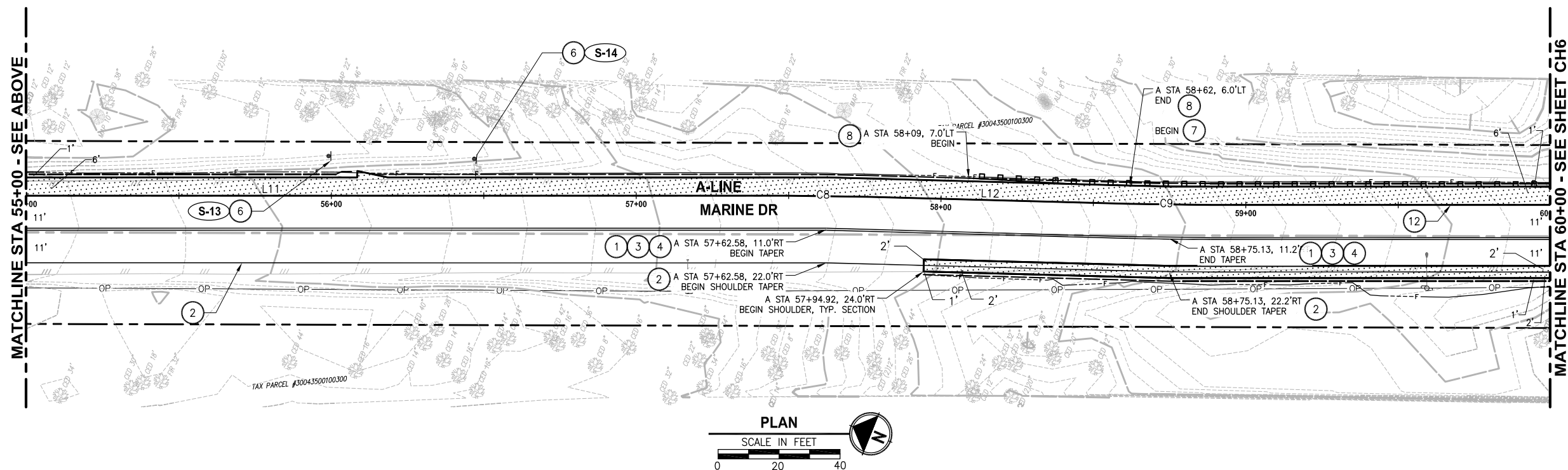
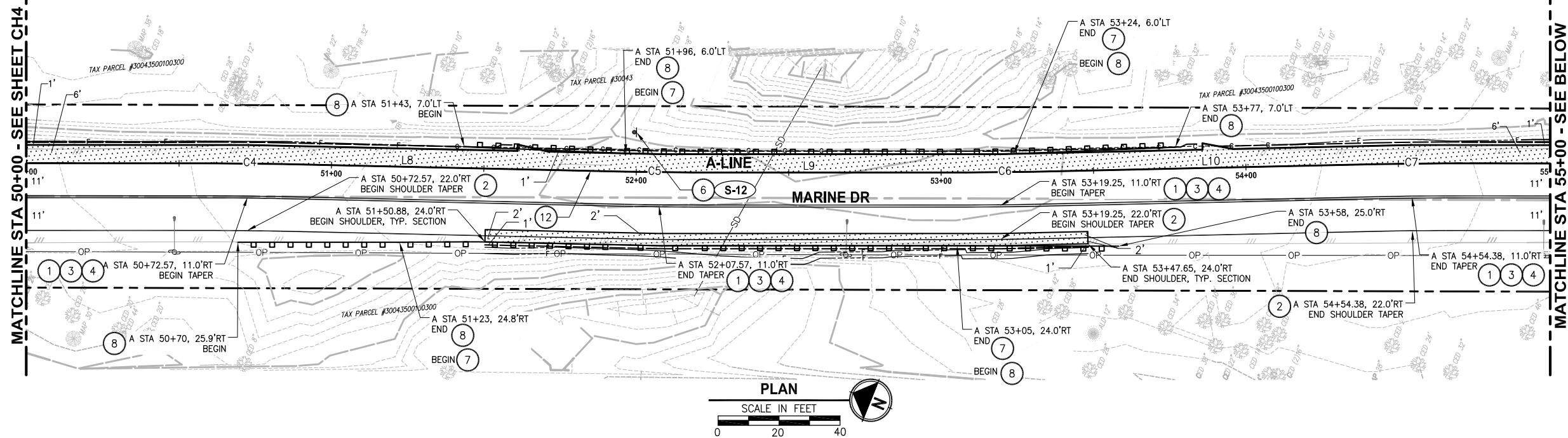
LAYOUT: CH5  
 PATH: C:\PMX\Temp\Pub\9460\ PLOTTED BY: millennial DATE: Thursday, May 19, 2016 12:10:32 PM

MATCHLINE STA 50+00 - SEE SHEET CH4

MATCHLINE STA 55+00 - SEE ABOVE

MATCHLINE STA 55+00 - SEE BELOW

MATCHLINE STA 60+00 - SEE SHEET CH6



**CONSTRUCTION NOTES:**

- 1 DOUBLE NO PASS PAINT CENTER LINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
- 2 MMA (TYPE D) PROFILED PLASTIC EDGE LINE PER WSDOT STD. PLAN M-20.20-02.
- 3 CENTERLINE RUMBLE STRIP PER WSDOT STD. PLAN M-65.10-02.
- 4 RECESSED PAVEMENT MARKER PER WSDOT STD. PLAN M-20.30-03.
- 5 BOARDWALK WITH RAILING. SEE S SHEETS
- 6 NEW SIGN AND POST. SEE SHEET CH9 FOR SIGN SCHEDULE AND DETAILS.
- 7 BEAM GUARDRAIL TYPE 31 W/ 11-FOOT STEEL POSTS PER WSDOT STD. PLAN C-20.10-03.
- 8 BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL PER WSDOT STD. PLAN C-22.40-04.
- 9 LEFT TURN-USE ARROW PER SNOHOMISH COUNTY STANDARD DRAWING 7-130.
- 10 RPMs (ARTERIAL) PER SNOHOMISH COUNTY STANDARD DRAWING 7-090.
- 11 RMPs (ARTERIAL) NO PASS CENTERLINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
- 12 MMA (TYPE D) PROFILED PLASTIC WIDE LINE PER WSDOT STD. PLAN M-20.20-02.
- 13 NOT USED
- 14 MMA (TYPE D) PLASTIC DOTTED LANE LINE PER WSDOT STD. PLAN M-20.10-02.

**GENERAL NOTES:**

1. TYPICAL ROADWAY SECTIONS ARE ON SHEET RS1.
2. ALIGNMENT LINE AND CURVE DATA ARE ON SHEET G3.
3. SEE DRIVEWAY TRANSITION DETAIL ON SHEET RS1 FOR MATCHING ASPHALT PAVEMENT TO EXISTING DRIVEWAY PAVEMENT.
4. APPROXIMATE STATIONS PROVIDED. CONTRACTOR SHALL VERIFY IN THE FIELD PRIOR TO INSTALLING PAVEMENT MARKING.

**LEGEND:**

- - - - - F - FILL
- - - - - C - CUT
- - - - - G - GRAVEL
- - - - - B - BOARDWALK
- [Pattern] - NEW HMA SEE SHEET RS1
- [Pattern] - 2" PLANE AND OVERLAY, SEE SHEET RS1

SNOHOMISH COUNTY  
 TRAFFIC ENGINEER  
 APPROVED FOR CONSTRUCTION  
 BY: \_\_\_\_\_  
 JIM BLOODGOOD, P.E.

REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY  
 FILE NAME: PSI1598078P01T04-CH  
 JOB No: 554-1598-078 (01/05)  
 DATE: MAY 2016



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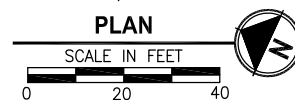
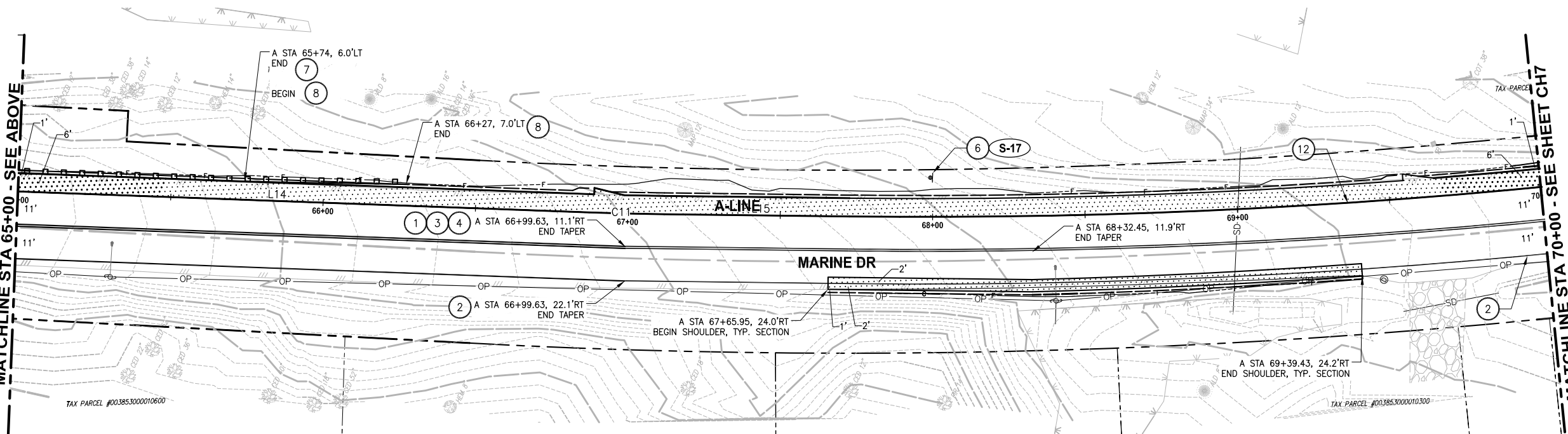
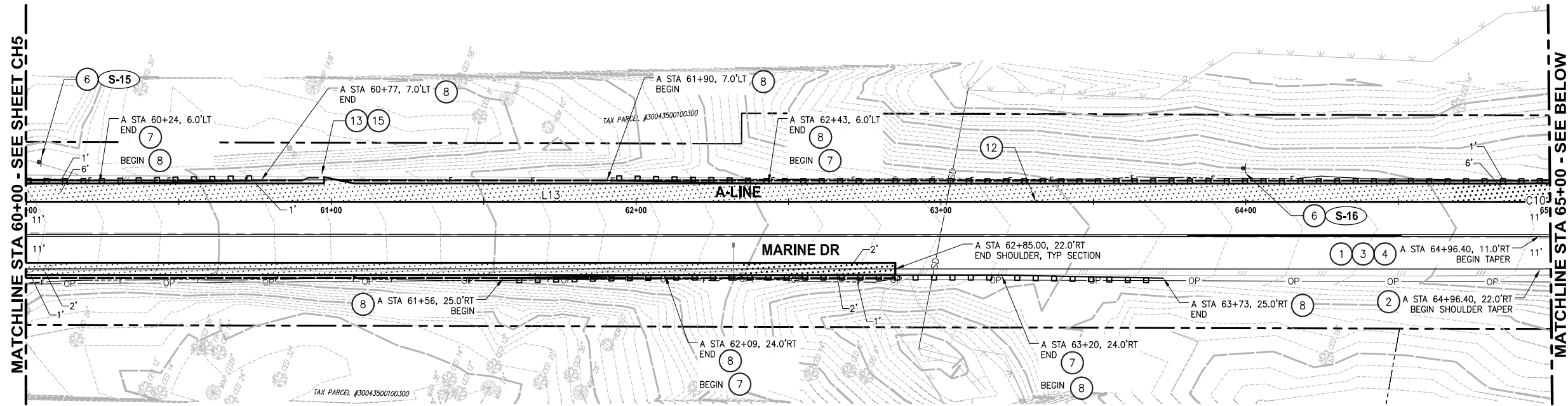
PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS**  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES  
 TULALIP, WASHINGTON

**CHANNELIZATION, PAVING, ILLUMINATION, AND SIGNING PLAN**  
 STA 50+00 TO STA 60+00

SHEET NO.  
 18 OF 40  
**CH5**



LAYOUT: CH6  
 PATH: C:\PWA\Temp\Pub\Pub\_9460\  
 PLOTTED BY: millennial DATE: Thursday, May 19, 2016 12:10:41 PM



- CONSTRUCTION NOTES:**
- 1 DOUBLE NO PASS PAINT CENTER LINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
  - 2 MMA (TYPE D) PROFILED PLASTIC EDGE LINE PER WSDOT STD. PLAN M-20.20-02.
  - 3 CENTERLINE RUMBLE STRIP PER WSDOT STD. PLAN M-65.10-02.
  - 4 RECESSED PAVEMENT MARKER PER WSDOT STD. PLAN M-20.30-03.
  - 5 BOARDWALK WITH RAILING. SEE S SHEETS
  - 6 NEW SIGN AND POST. SEE SHEET CH9 FOR SIGN SCHEDULE AND DETAILS.
  - 7 BEAM GUARDRAIL TYPE 31 W/ 11-FOOT STEEL POSTS PER WSDOT STD. PLAN C-20.10-03.
  - 8 BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL PER WSDOT STD. PLAN C-22.40-04.
  - 9 LEFT TURN-USE ARROW PER SNOHOMISH COUNTY STANDARD DRAWING 7-130.
  - 10 RPMs (ARTERIAL) PER SNOHOMISH COUNTY STANDARD DRAWING 7-090.
  - 11 RMPs (ARTERIAL) NO PASS CENTERLINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
  - 12 MMA (TYPE D) PROFILED PLASTIC WIDE LINE PER WSDOT STD. PLAN M-20.20-02.
  - 13 NOT USED
  - 14 MMA (TYPE D) PLASTIC DOTTED LANE LINE PER WSDOT STD. PLAN M-20.10-02.

- GENERAL NOTES:**
1. TYPICAL ROADWAY SECTIONS ARE ON SHEET RS1.
  2. ALIGNMENT LINE AND CURVE DATA ARE ON SHEET G3.
  3. SEE DRIVEWAY TRANSITION DETAIL ON SHEET RS1 FOR MATCHING ASPHALT PAVEMENT TO EXISTING DRIVEWAY PAVEMENT.
  4. APPROXIMATE STATIONS PROVIDED. CONTRACTOR SHALL VERIFY IN THE FIELD PRIOR TO INSTALLING PAVEMENT MARKING.

**LEGEND:**

---	FILL
---	CUT
---	GRAVEL
---	BOARDWALK
---	NEW HMA SEE SHEET RS1
---	2" PLANE AND OVERLAY, SEE SHEET RS1

SNOHOMISH COUNTY  
 TRAFFIC ENGINEER  
 APPROVED FOR CONSTRUCTION  
 BY: \_\_\_\_\_  
 JIM BLOODGOOD, P.E.



REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

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5-19-16

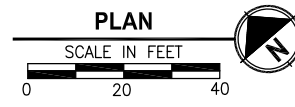
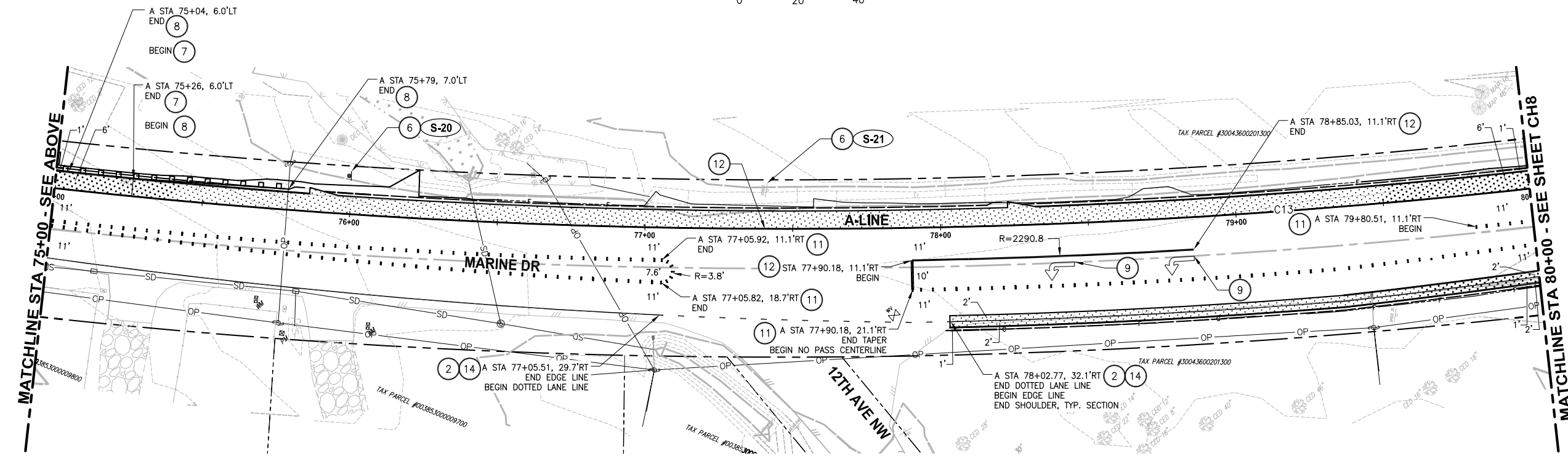
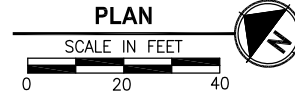
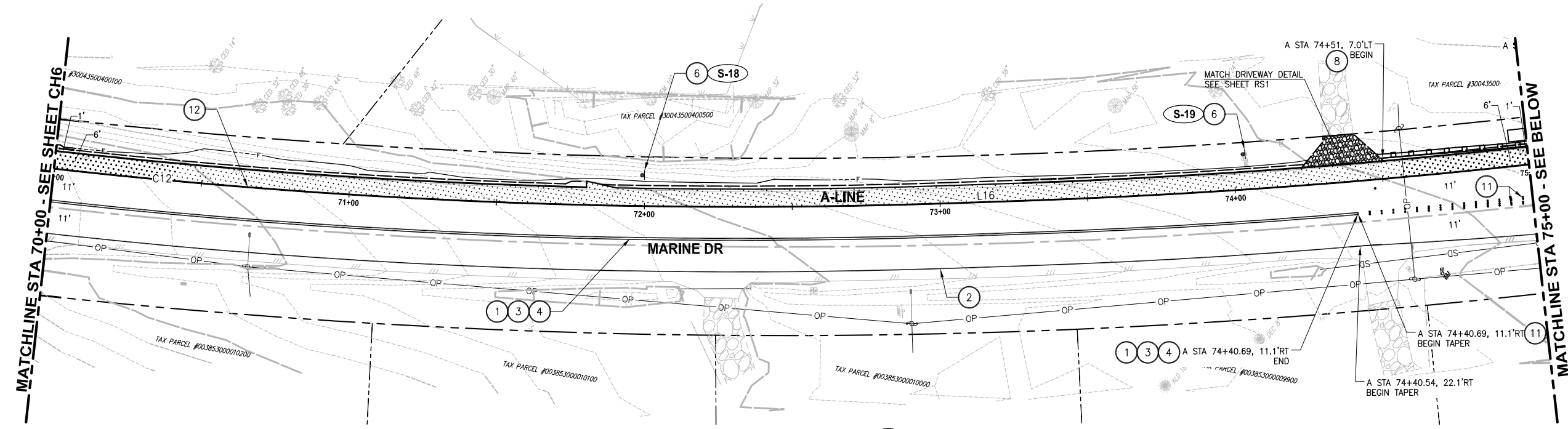
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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS**  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES  
 TULALIP, WASHINGTON

**CHANNELIZATION, PAVING, ILLUMINATION, AND SIGNING PLAN**  
 STA 60+00 TO STA 70+00

SHEET NO.  
 19 OF 40  
**CH6**

LAYOUT: CH7  
 PATH: C:\PMX\Temp\Pub\ch7\_9460\ PLOTTED BY: millennial DATE: Thursday, May 19, 2016 12:10:49 PM



- CONSTRUCTION NOTES:**
- 1 DOUBLE NO PASS PAINT CENTER LINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
  - 2 MMA (TYPE D) PROFILED PLASTIC EDGE LINE PER WSDOT STD. PLAN M-20.20-02.
  - 3 CENTERLINE RUMBLE STRIP PER WSDOT STD. PLAN M-65.10-02.
  - 4 RECESSED PAVEMENT MARKER PER WSDOT STD. PLAN M-20.30-03.
  - 5 BOARDWALK WITH RAILING. SEE S SHEETS
  - 6 NEW SIGN AND POST. SEE SHEET CH9 FOR SIGN SCHEDULE AND DETAILS.
  - 7 BEAM GUARDRAIL TYPE 31 W/ 11-FOOT STEEL POSTS PER WSDOT STD. PLAN C-20.10-03.
  - 8 BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL PER WSDOT STD. PLAN C-22.40-04.
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  - 14 MMA (TYPE D) PLASTIC DOTTED LANE LINE PER WSDOT STD. PLAN M-20.10-02.

- GENERAL NOTES:**
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  3. SEE DRIVEWAY TRANSITION DETAIL ON SHEET RS1 FOR MATCHING ASPHALT PAVEMENT TO EXISTING DRIVEWAY PAVEMENT.
  4. APPROXIMATE STATIONS PROVIDED. CONTRACTOR SHALL VERIFY IN THE FIELD PRIOR TO INSTALLING PAVEMENT MARKING.

**LEGEND:**

---	FILL
- - - - -	CUT
- . - . -	GRAVEL
=====	BOARDWALK
[Pattern]	NEW HMA SEE SHEET RS1
[Pattern]	2" PLANE AND OVERLAY, SEE SHEET RS1

SNOHOMISH COUNTY  
 TRAFFIC ENGINEER  
 APPROVED FOR CONSTRUCTION  
 BY: \_\_\_\_\_  
 JIM BLOODGOOD, P.E.

REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

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5-19-16

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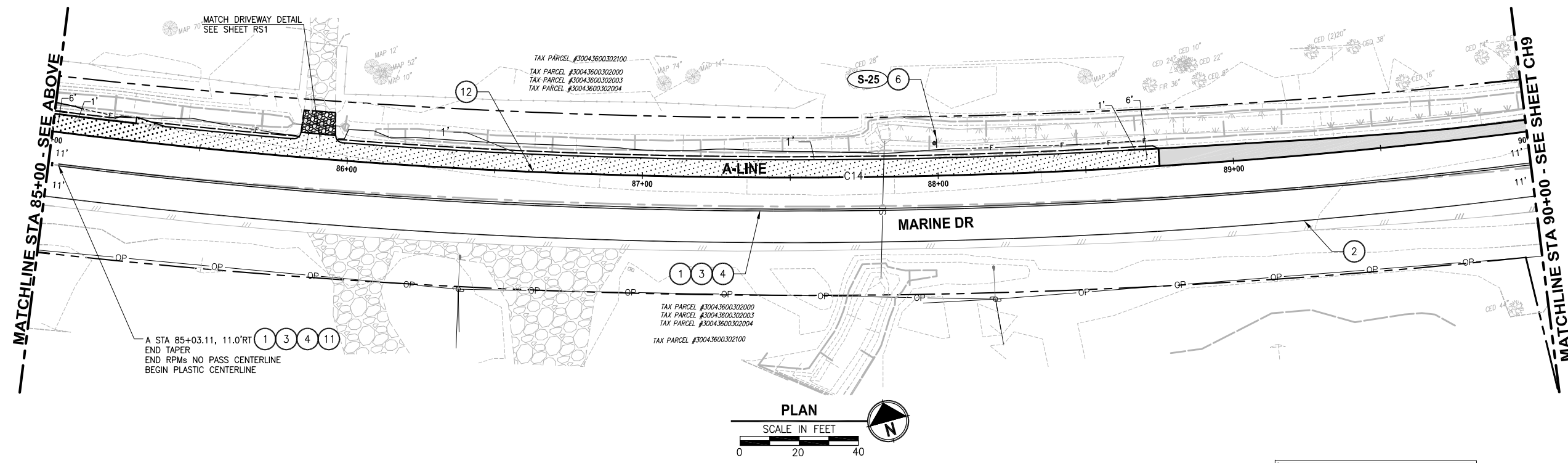
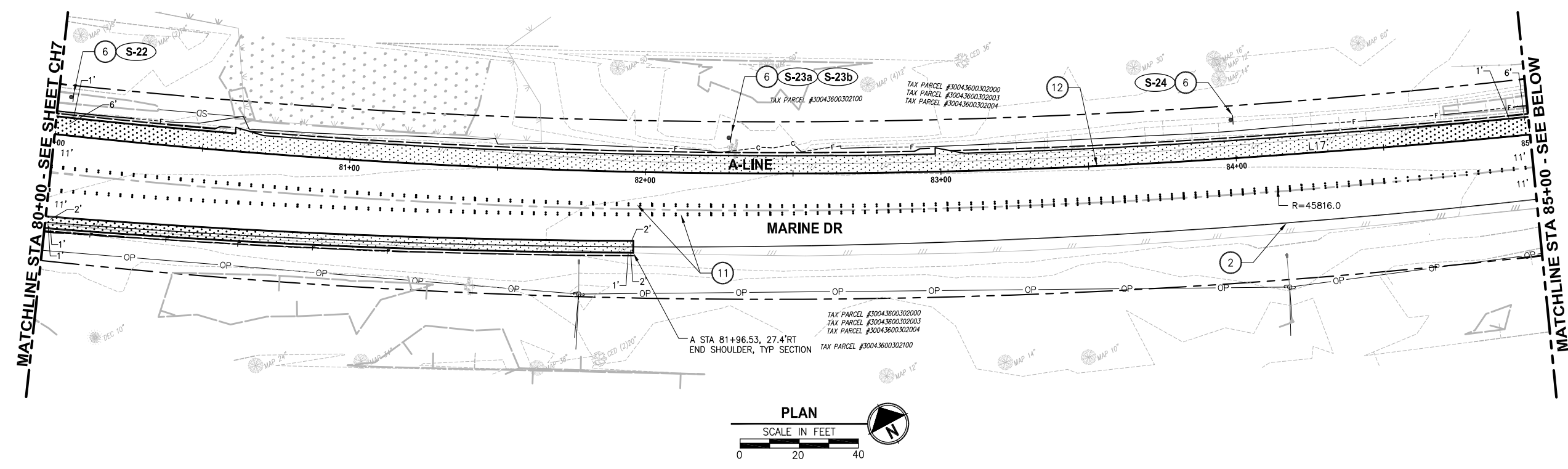
PROJECT NAME  
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 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**CHANNELIZATION, PAVING,  
 ILLUMINATION, AND SIGNING PLAN  
 STA 70+00 TO STA 80+00**

SHEET NO.  
 20 OF 40  
**CH7**



LAYOUT: CH8  
 PATH: C:\PMX\Temp\Pub\9460\...  
 PLOTTED BY: millennial DATE: Thursday, May 19, 2016 12:10:58 PM



- CONSTRUCTION NOTES:**
- 1 DOUBLE NO PASS PAINT CENTER LINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
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  4. APPROXIMATE STATIONS PROVIDED. CONTRACTOR SHALL VERIFY IN THE FIELD PRIOR TO INSTALLING PAVEMENT MARKING.

- LEGEND:**
- F---F--- FILL
  - C---C--- CUT
  - G---G--- GRAVEL
  - B---B--- BOARDWALK
  - NEW HMA SEE SHEET RS1
  - 2" PLANE AND OVERLAY, SEE SHEET RS1

SNOHOMISH COUNTY  
 TRAFFIC ENGINEER  
 APPROVED FOR CONSTRUCTION  
 BY: \_\_\_\_\_  
 JIM BLOODGOOD, P.E.



REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
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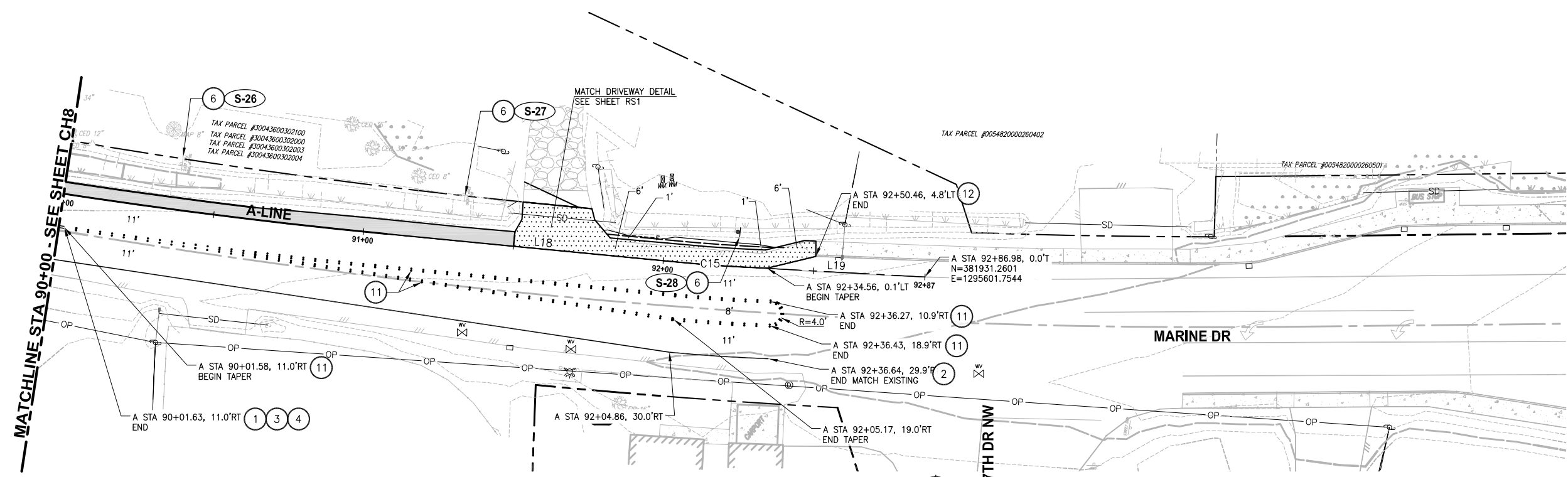
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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**CHANNELIZATION, PAVING,  
 ILLUMINATION, AND SIGNING PLAN**  
 STA 80+00 TO STA 90+00

SHEET NO.  
 21 OF 40  
**CH8**

LAYOUT: CH9 PATH: C:\PMX\Temp\Pub\Pub\_9460\ PLOTTED BY: millennial DATE: Thursday, May 19, 2016 12:11:04 PM



**SIGN INSTALLATION SPECIFICATIONS**

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	EXISTING LOCATION	PROPOSED LOCATION	DIMENSIONS	POST	NOTES
S-01		SOCIAL SERVICES	15+57, LT				PROTECT EXISTING IN PLACE
S-02	R8-3a	NO PARKING		20+32, 13'LT	24"x30"	SEE NOTE 3	
S-03	R8-3a	NO PARKING		24+00, 13'LT	24"x30"	SEE NOTE 3	
S-04		62ND ST NW	27+92, LT				PROTECT EXISTING IN PLACE
S-05	R8-3a	NO PARKING		28+50, 13'LT	24"x30"	SEE NOTE 3	
S-06	R8-3a	NO PARKING		32+00, 13'LT	24"x30"	SEE NOTE 3	
S-07		PRIVATE SIGN	33+82, LT				PROTECT EXISTING IN PLACE
S-08	R8-3a	NO PARKING		36+00, 13'LT	24"x30"	SEE NOTE 3	
S-09	R8-3a	NO PARKING		40+05, 13'LT	24"x30"	SEE NOTE 3	
S-10	R8-3a	NO PARKING		44+00, 13'LT	24"x30"	SEE NOTE 3	
S-11	R8-3a	NO PARKING		48+00, 13'LT	24"x30"	SEE NOTE 3	
S-12	R8-3a	NO PARKING		52+00, 13'LT	24"x30"	SEE NOTE 3	
S-13	R8-3a	NO PARKING		56+00, 13'LT	24"x30"	SEE NOTE 3	
S-14		BUS STOP AHEAD	56+47, 8'LT	56+47, 13'LT		SEE NOTE 3	PROVIDE NEW POST
S-15	R8-3a	NO PARKING		60+05, 13'LT	24"x30"	SEE NOTE 3	
S-16	R8-3a	NO PARKING		64+00, 11'LT	24"x30"	SEE NOTE 3	
S-17	R8-3a	NO PARKING		68+00, 13'LT	24"x30"	SEE NOTE 3	
S-18	R8-3a	NO PARKING		72+00, 11'LT	24"x30"	SEE NOTE 3	
S-19		SPEED LIMIT 45	74+03, 10'LT	74+03, 13'LT		SEE NOTE 3	PROVIDE NEW POST
S-20	R8-3a	NO PARKING		76+00, 13'LT	24"x30"	SEE NOTE 3	
S-21		12TH AVE NW	77+41, LT				PROTECT EXISTING IN PLACE
S-22	R8-3a	NO PARKING		80+05, 13'LT	24"x30"	SEE NOTE 3	
S-23a		12TH AVE NW	82+28, 9'LT	82+28, 13'LT		SEE NOTE 3	MOUNT ABOVE SIGN 23b. PROVIDE NEW POST
S-23b		INTERSECTION WARNING (W2-2)	82+28, 9'LT	82+28, 13'LT		SEE NOTE 3	MOUNT BELOW SIGN 23a.
S-24	R8-3a	NO PARKING		84+00, 13'LT	24"x30"	SEE NOTE 3	
S-25	R8-3a	NO PARKING		88+00, 11'LT	24"x30"	SEE NOTE 3	
S-26		TULALIP TRIBE FIRE DEPT.	90+37, LT				PROTECT EXISTING IN PLACE
S-27		BUS STOP AHEAD	91+30, LT				PROTECT EXISTING IN PLACE
S-28	R8-3a	NO PARKING		92+24, 13'LT	24"x30"	SEE NOTE 3	
S-29A		64TH ST NW	20+85, 10'LT	20+85, 13'LT		SEE NOTE 3	MOUNT ABOVE SIGN 29b. PROVIDE NEW POST
S-29B		INTERSECTION WARNING (W2-2)	20+85, 10'LT	20+85, 13'LT		SEE NOTE 3	MOUNT BELOW SIGN 29a.

**GENERAL SIGN NOTES:**

- ALL SIGNS SHALL BE TYPE III SHEETING.
- SIGN LOCATIONS ARE APPROXIMATE. FIELD VERIFY ALL NEW SIGN LOCATIONS BEFORE INSTALLATION.
- MOUNT ALL SIGNS TO TIMBER SIGN SUPPORT PER WSDOT STD. PLAN G-22.10-03.

SNOHOMISH COUNTY  
TRAFFIC ENGINEER  
APPROVED FOR CONSTRUCTION  
BY: \_\_\_\_\_  
JIM BLOODGOOD, P.E.

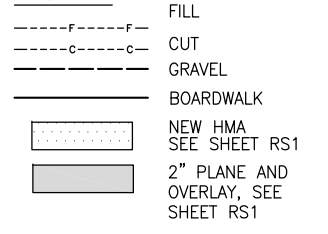
**CONSTRUCTION NOTES:**

- DOUBLE NO PASS PAINT CENTER LINE PER SNOHOMISH COUNTY STANDARD DRAWING 7-010.
- MMA (TYPE D) PROFILED PLASTIC EDGE LINE PER WSDOT STD. PLAN M-20.20-02.
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- MMA (TYPE D) PLASTIC DOTTED LANE LINE PER WSDOT STD. PLAN M-20.10-02.

**GENERAL NOTES:**

- TYPICAL ROADWAY SECTIONS ARE ON SHEET RS1.
- ALIGNMENT LINE AND CURVE DATA ARE ON SHEET G3.
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- APPROXIMATE STATIONS PROVIDED. CONTRACTOR SHALL VERIFY IN THE FIELD PRIOR TO INSTALLING PAVEMENT MARKING.

**LEGEND:**



REVISIONS	DATE	BY	DESIGNED
			B. THOMAS
			E. SOTO
			J. DVORAK
			A. FISHER

**ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY**  
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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
THE TULALIP TRIBES**  
TULALIP, WASHINGTON

**CHANNELIZATION, PAVING,  
ILLUMINATION, AND SIGNING PLAN  
STA 90+00 TO END OF PROJECT**

SHEET NO.  
22 OF 40  
**CH9**



**GENERAL NOTES:**

CODES:

ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION DATED 2016, AND AMENDMENTS.

DESIGN OF THE BOARDWALK IS IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 7TH EDITION, DATED 2014, AND AASHTO GUIDE SPECIFICATION FOR DESIGN OF PEDESTRIAN BRIDGES, DATED 2009. SEISMIC DESIGN OF THE BOARDWALK IS IN ACCORDANCE WITH ASCE 7-10.

DESIGN CRITERIA:

LIVE LOADS

BOARDWALK - DISTRIBUTED LIVE LOAD 90 PSF  
 BOARDWALK - VEHICLE LOAD H10  
 HANDRAIL TOP RAIL - LATERAL LOAD 50 PLF

LATERAL LOADS:

THIS STRUCTURE HAS BEEN DESIGNED TO RESIST SEISMIC FORCES AS PRESCRIBED BY ASCE 7-10

$S_{D5} = 0.836g$   
 $S_{D1} = 0.487g$   
 SEISMIC DESIGN CATEGORY = D  
 $R = 2.0$   
 $I_e = 1.0$

GEOTECHNICAL REPORT:

GEOTECHNICAL RECOMMENDATIONS ARE CONTAINED IN "GEOTECHNICAL ENGINEERING INVESTIGATION MARINE DRIVE PEDESTRIAN/BIKE IMPROVEMENTS" BY MATERIALS TESTING & CONSULTING, INC. DATED MARCH 3, 2016.

OVERLAY:

OVERLAY FOR THE BOARDWALK SHALL BE 2½" HMA CL. ½" PG 64-22.

DESIGN CAPACITIES:

THE PILES HAVE BEEN DESIGNED FOR AN ULTIMATE BEARING CAPACITY OF 67 KIPS.

SITE WORK

EXCAVATION:

EXCAVATE AS REQUIRED TO PLACE PILE CAP. OVER-EXCAVATIONS SHALL BE BACKFILLED WITH STRUCTURAL FILL AT THE CONTRACTOR'S EXPENSE.

STRUCTURAL CONCRETE

ALL CAST-IN-PLACE CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH  $f'c=4000$  psi, (CLASS 4000).

CONCRETE COVER ON REINFORCING (UNLESS SHOWN OTHERWISE) SHALL BE 2".

CAST-IN-PLACE CONCRETE SHALL RECEIVE CLASS 1 SURFACE FINISH IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS.

REINFORCING STEEL SHALL BE ASTM A706 GRADE 60.

LAP SPLICES SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND WSDOT STANDARD SPECIFICATIONS.

**GENERAL NOTES CONT.**

HOLLOW CORE PLANKS

PRECAST, PRESTRESSED HOLLOW CORE PLANKS SHALL BE MANUFACTURED BY CONCRETE TECHNOLOGY CORPORATION, TACOMA, WASHINGTON, CENTRAL PRE-MIX PRESTRESS COMPANY SPOKANE, WASHINGTON, MORSE BROS. PRESTRESSED CONCRETE GROUP HARRISBURG, OREGON, OR APPROVED EQUIVALENT. MANUFACTURER SHALL DESIGN THE UNITS TO SAFELY CARRY THE LOADS LISTED IN THE DESIGN CRITERIA AND ANY ADDITIONAL LOADS INDICATED ON THE FRAMING PLANS. MANUFACTURER SHALL PROVIDE DESIGN CALCULATIONS AND SUBMIT SHOP DRAWINGS BEARING THE STAMP OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE WASHINGTON FOR REVIEW AND APPROVAL BEFORE ORDERING MATERIAL AND ANY FABRICATION OF PRECAST ELEMENTS.

GROUT FOR HOLLOW CORE SLAB KEYWAY SHALL CONFORM TO STD. SPEC. 9-20.3(2).

STRUCTURAL STEEL

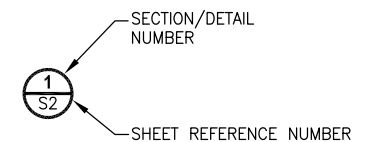
WELDING: SEE WSDOT STANDARD SPECIFICATIONS  
 STRUCTURAL STEEL: ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE AISC, "MANUAL OF STEEL CONSTRUCTION," LATEST EDITION

PIPE STEEL SHALL BE PER ASTM A252, GRADE 3 ( $F_y = 45$  KSI).

WELDED HEADED STUDS SHALL BE ASTM A-108.

STEEL PILES SHALL BE OPEN-ENDED END BEARING PIPE PILES AS REQUIRED BY THE GEOTECHNICAL ENGINEER. SIZE AND LOCATION PER CIVIL PLANS AND STRUCTURAL DRAWINGS.

LAYOUT: ST PATH: c:\pva\Temp\AcPublish\_9460\ PLOTTED BY: millenal DATE: Thursday, May 19, 2016 12:15:31 PM



SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION  
 BY \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO. \_\_\_\_\_



Know what's below.  
 Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			B. SCHLACHTER
			DRAWN A. VALENCIA
			CHECKED D. MCINTIER
			APPROVED J. MERTH

ONE INCH AT FULL SCALE.  
 IF NOT, SCALE ACCORDINGLY  
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 MAY 2016

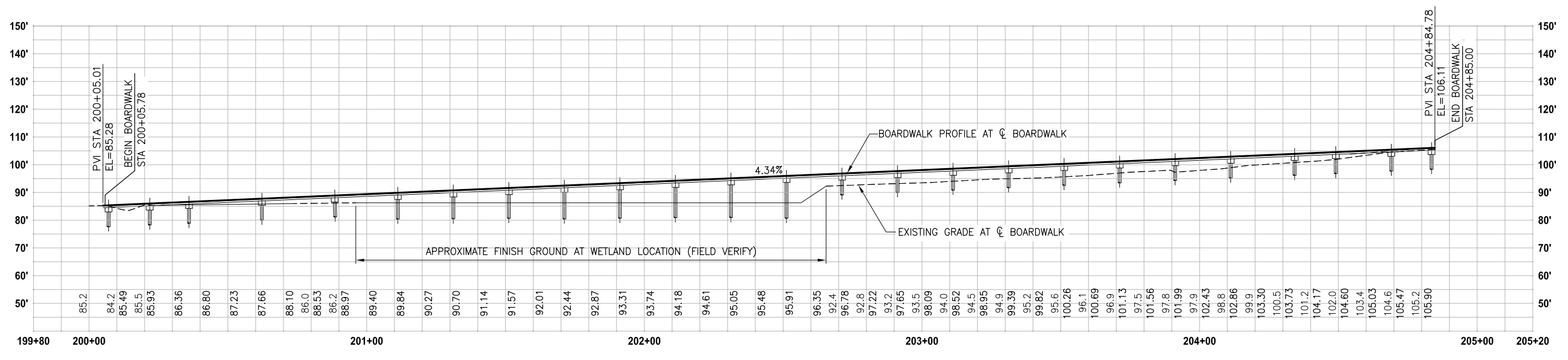
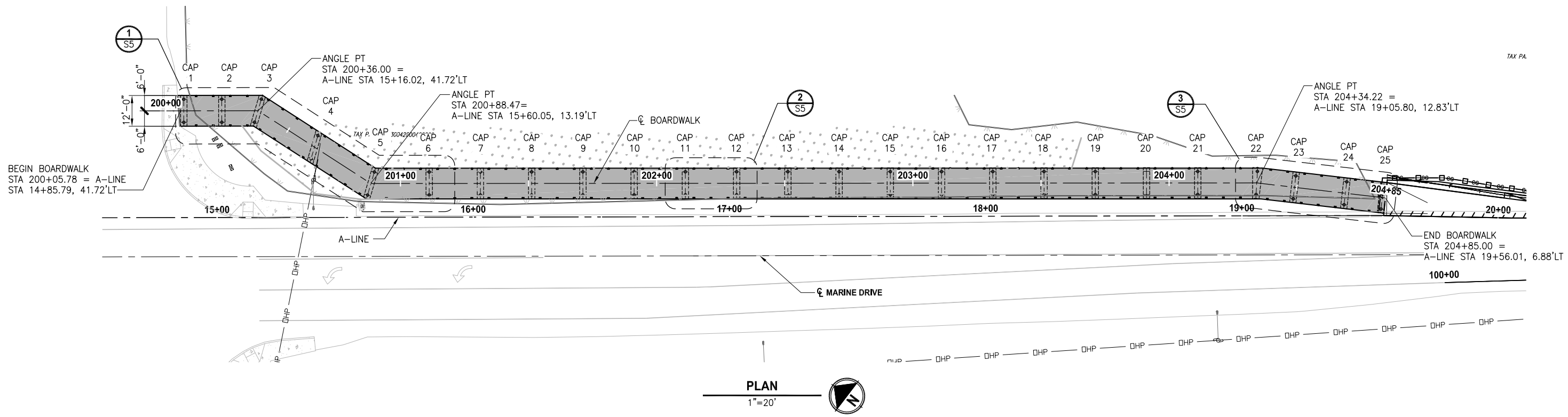


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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**STRUCTURAL  
 DESIGN CRITERIA**

SHEET NO.  
 23 OF 40  
**S1**



SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION

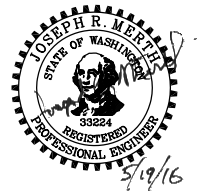
BY \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO. \_\_\_\_\_

LAYOUT: S2  
 PATH: C:\PMX\Temp\Ac-Publish\_9460\  
 PLOTTED BY: millenial DATE: Thursday, May 19, 2016 12:16:52 PM

REVISIONS	DATE	BY	DESIGNED
			B. SCHLACHTER
			A. VALENCIA
			D. MCINTIER
			J. MERTH

ONE INCH AT FULL SCALE.  
 IF NOT, SCALE ACCORDINGLY

FILE NAME  
 PSI1598078P01T04-S1  
 JOB No.  
 554-1598-078 (01/05)  
 DATE  
 MAY 2016



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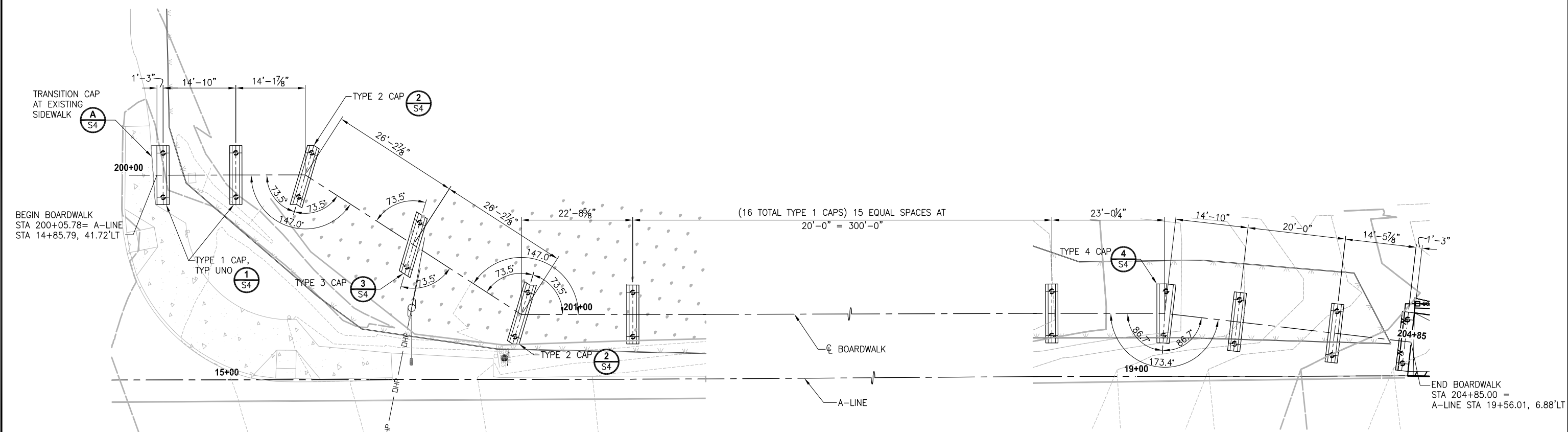
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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**ELEVATED BOARDWALK  
 PLAN AND PROFILE**



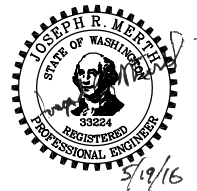
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**PLAN**  
1"=10'

REVISIONS	DATE	BY	DESIGNED
			B. SCHLACHTER
			A. VALENCIA
			D. MCINTIER
			J. MERTH

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY  
 FILE NAME: PSI1598078P01T04-S1  
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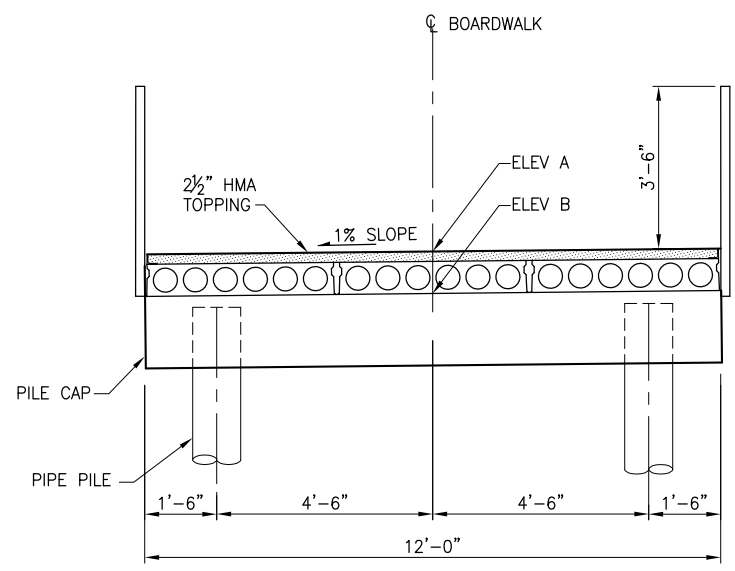
PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS**  
**PHASE 1: 7TH DRIVE NW TO 64TH STREET NW**  
**THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION  
 BY: \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO. \_\_\_\_\_

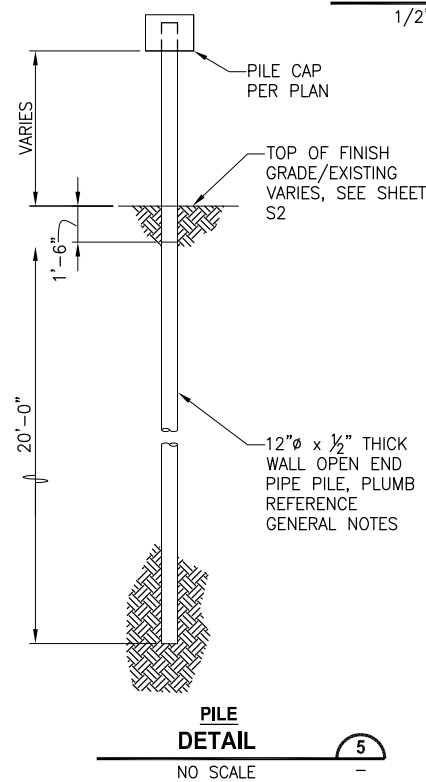
**ELEVATED BOARDWALK**  
**FOUNDATION PLAN**

**811**  
 Know what's below.  
 Call before you dig.  
 SHEET NO.  
 25 OF 40  
**S3**

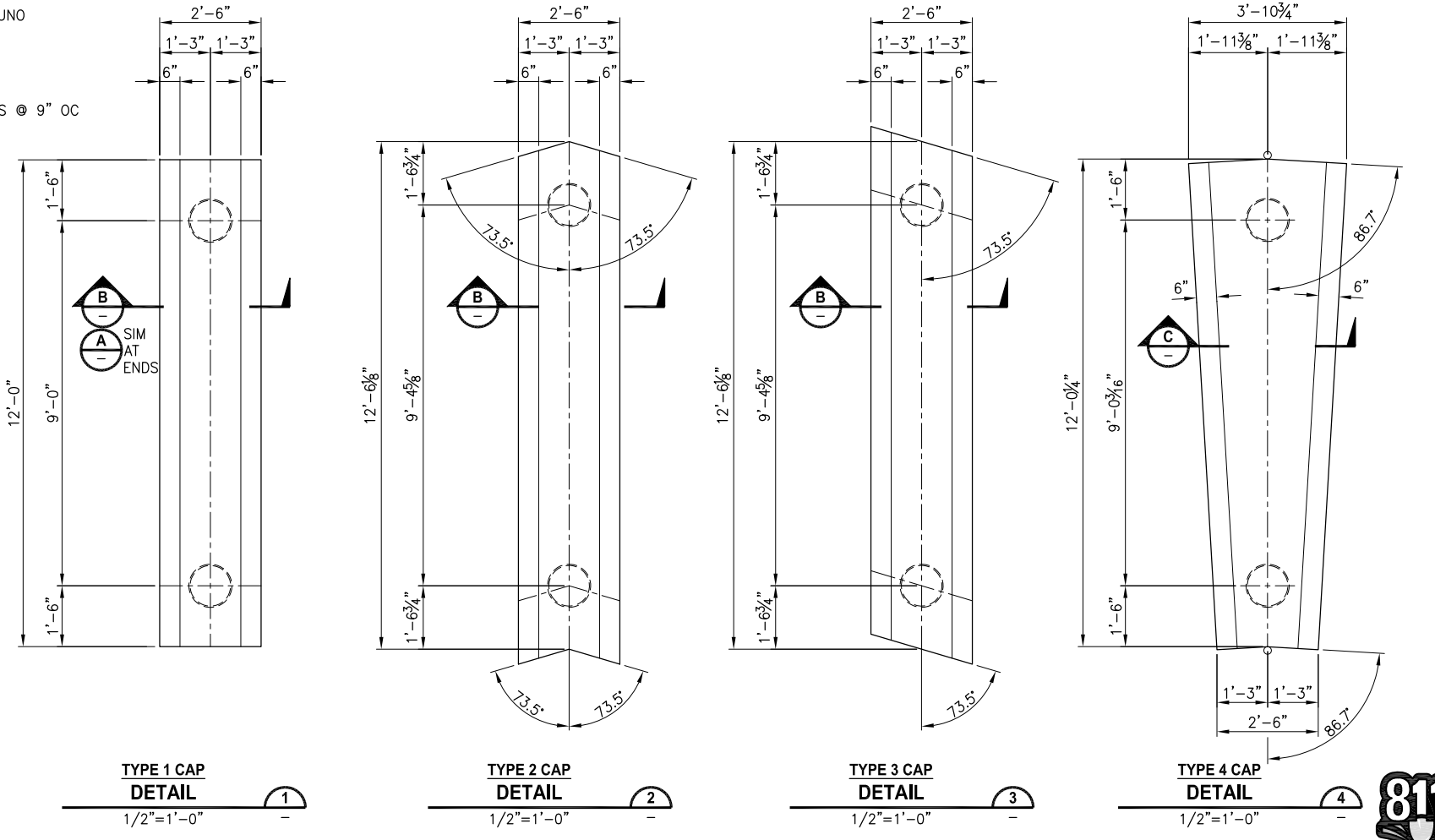
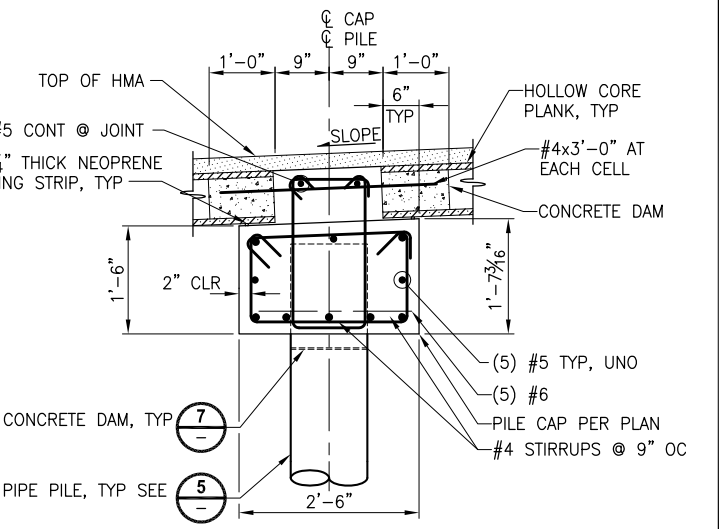
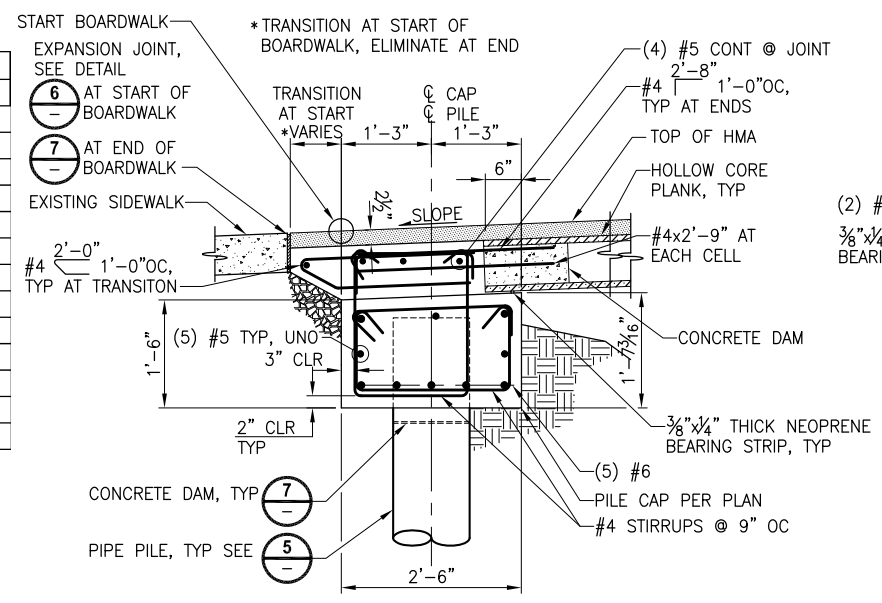
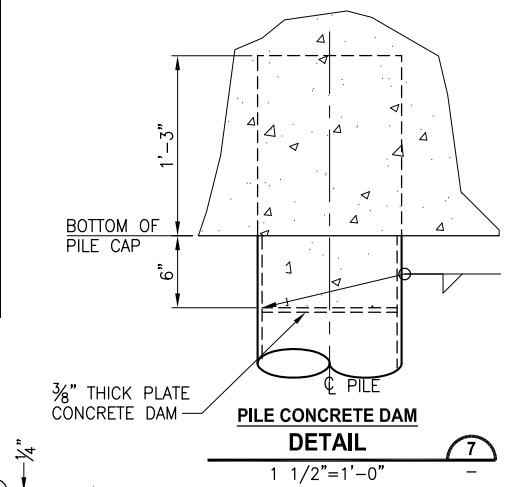
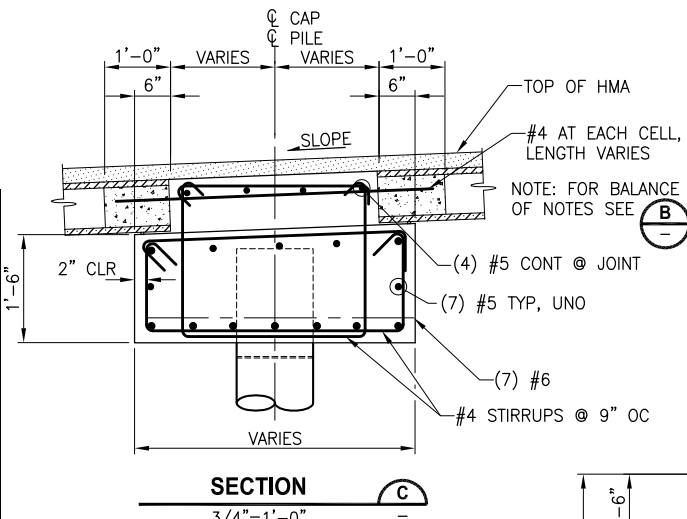
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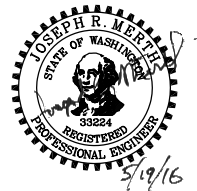
BENT ELEVATIONS				BENT ELEVATIONS (CONT)			
CAP NO.	STATION	ELEV A	ELEV B	CAP NO.	STATION	ELEV A	ELEV B
CAP 1	200+07.03	85.37	84.49	CAP 14	202+71.20	96.83	95.96
CAP 2	200+21.86	86.01	85.14	CAP 15	202+91.20	97.70	96.83
CAP 3	200+36.02	86.63	85.75	CAP 16	203+11.20	98.57	97.69
CAP 4	200+62.26	87.76	86.89	CAP 17	203+31.20	99.44	98.56
CAP 5	200+88.50	88.90	88.03	CAP 18	203+51.20	100.31	99.43
CAP 6	201+11.20	89.89	89.01	CAP 19	203+71.20	101.17	100.30
CAP 7	201+31.20	90.76	89.88	CAP 20	203+91.20	102.04	101.17
CAP 8	201+51.20	91.63	90.75	CAP 21	204+11.20	102.91	102.03
CAP 9	201+71.20	92.49	91.62	CAP 22	204+34.22	103.91	103.03
CAP 10	201+91.20	93.36	92.49	CAP 23	204+49.05	104.55	103.68
CAP 11	202+11.20	94.23	93.35	CAP 24	204+69.05	105.42	104.55
CAP 12	202+31.20	95.10	94.22	CAP 25	204+83.54	106.05	105.17
CAP 13	202+51.20	95.97	95.09				



PILE ELEVATION			
CAP NO.	TOP	TIP	LENGTH
CAP 1	84.12	63.12	21
CAP 2	84.76	63.76	21
CAP 3	85.38	64.38	21
CAP 4	86.51	65.51	21
CAP 5	87.65	66.65	21
CAP 6	88.64	66.64	22
CAP 7	89.51	66.51	23
CAP 8	90.37	66.37	24
CAP 9	91.24	65.24	26
CAP 10	92.11	66.11	26
CAP 11	92.98	64.98	28
CAP 12	93.85	65.85	28
CAP 13	94.71	64.71	30
CAP 14	95.58	71.58	24
CAP 15	96.45	72.45	24
CAP 16	97.32	73.32	24
CAP 17	98.19	74.19	24
CAP 18	99.05	75.05	24
CAP 19	99.92	75.92	24
CAP 20	100.79	76.79	24
CAP 21	101.66	77.66	24
CAP 22	102.66	78.66	24
CAP 23	103.30	81.30	22
CAP 24	104.17	83.17	21
CAP 25	104.80	83.80	21



SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION  
 BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO.



REVISIONS	DATE	BY	DESIGNED
			B. SCHLACHTER
			A. VALENCIA
			D. MCINTIER
			J. MERTH

ONE INCH AT FULL SCALE,  
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 FILE NAME: PS1598078P01T04-S2  
 JOB No: 554-1598-078 (01/05)  
 DATE: MAY 2016

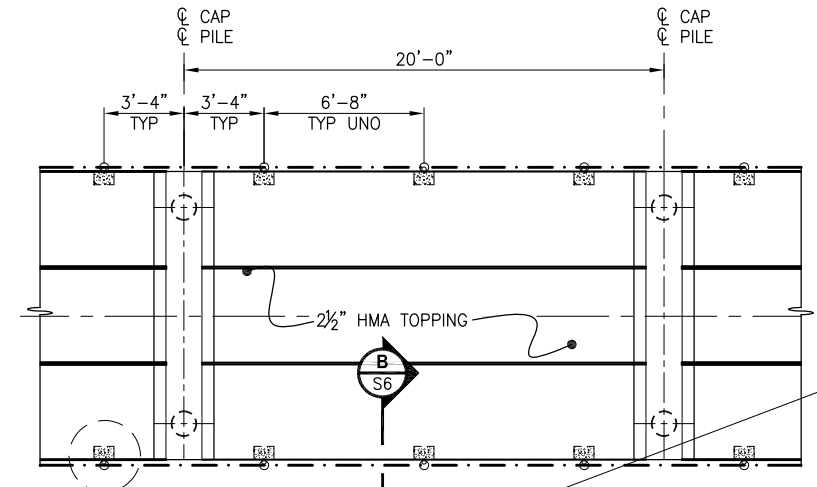
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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS**  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES  
 TULALIP, WASHINGTON

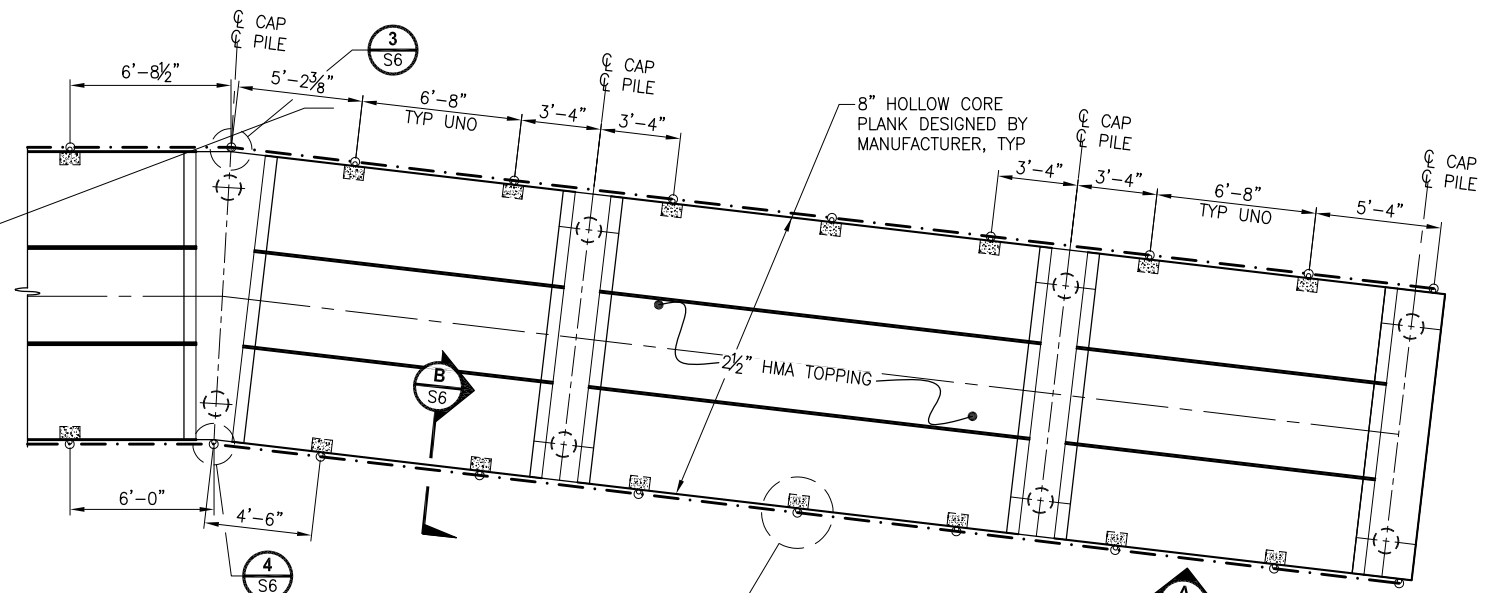
**BOARDWALK DETAILS AND SECTIONS**

**811**  
 Know what's below.  
 Call before you dig.  
 SHEET NO.  
 26 OF 40  
**S4**

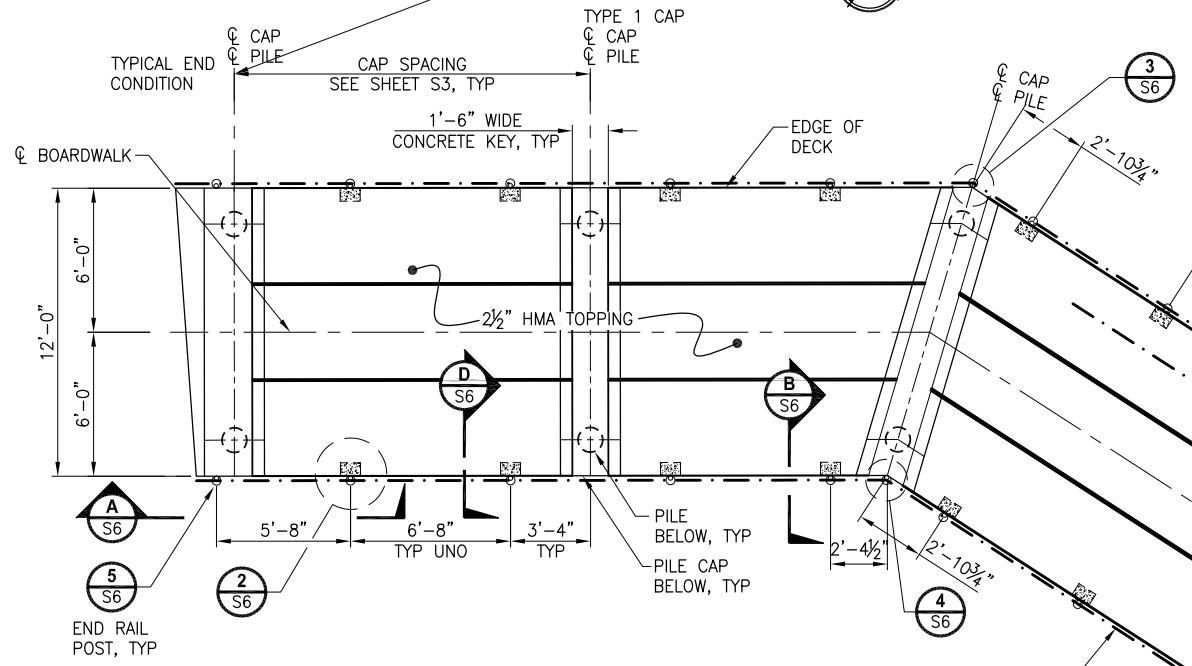
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**HOLLOW CORE PLANK FRAMING / RAILING PLAN  
DETAIL 2**  
1/4" = 1'-0"

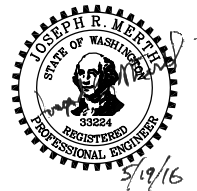


**HOLLOW CORE PLANK FRAMING / RAILING PLAN  
DETAIL 3**  
1/4" = 1'-0"



**HOLLOW CORE PLANK FRAMING / RAILING PLAN  
DETAIL 1**  
1/4" = 1'-0"

SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION  
 BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
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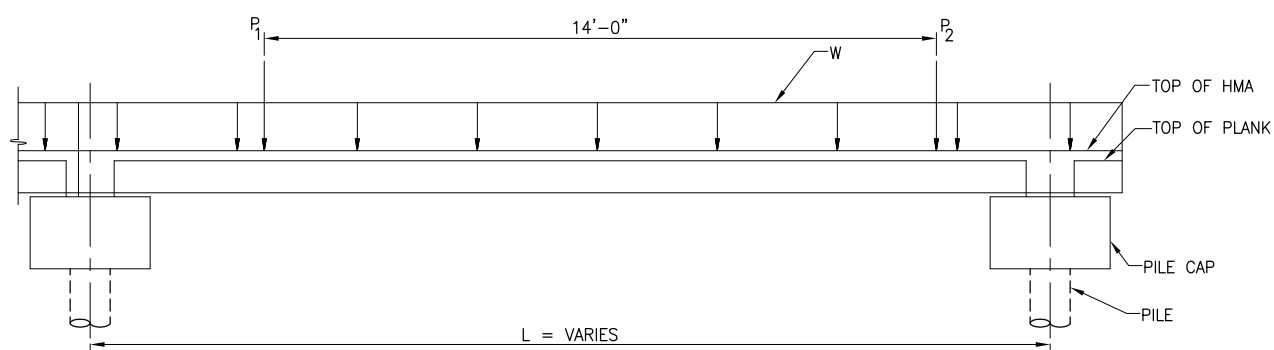
PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**BOARDWALK HOLLOW CORE  
 FRAMING / RAILING PLAN**

Know what's below.  
 Call before you dig.  
 SHEET NO.  
 27 OF 40  
**S5**

REVISIONS	DATE	BY	DESIGNED
			B. SCHLACHTER
			A. VALENCIA
			D. MCINTIER
			J. MERTH

ONE INCH AT FULL SCALE,  
 IF NOT, SCALE ACCORDINGLY  
 FILE NAME  
 PSI1598078P01T04-S2  
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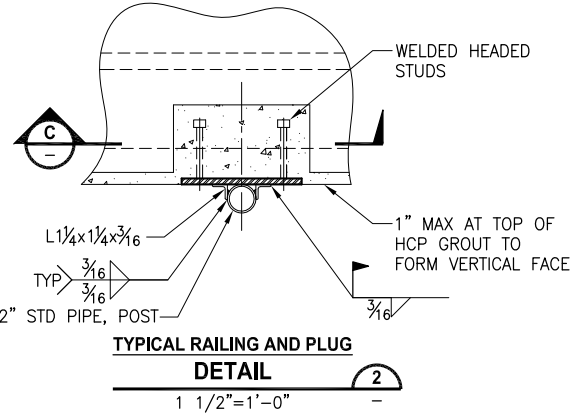


**48\"/>**

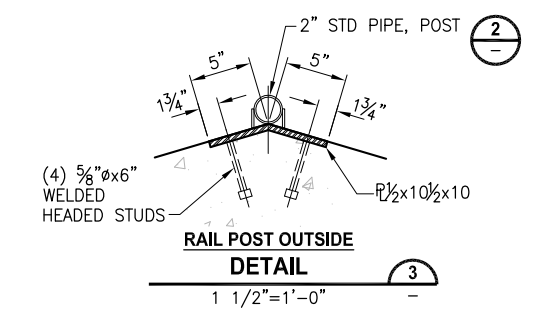
UNFACTORED LIVE LOADS PER PLANK				
LOAD CASE	W (psf)	P1 (KIPS)	P2 (KIPS)	COMMENTS
1	90	-	-	
H10		2.0	8.0	H10 DESIGN VEHICLE

**NOTES:**  
 DESIGN PLANK FOR MOST CRITICAL LOADING EITHER CASE 1 OR CASE 2.  
 MAX LIVE LOAD DEFLECTION =  $L/360$   
 LOAD AT TOP OF HANDRAIL = 50 plf  
 PER AASHTO LRFD SECTION 13.8.2

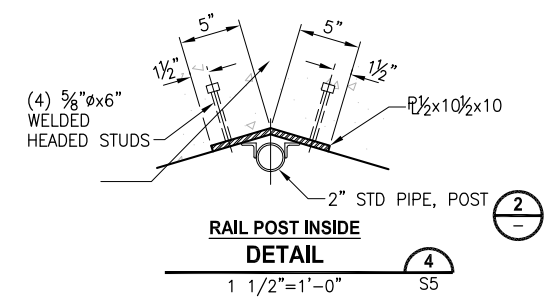
**CONCRETE PLANK LIVE LOAD DIAGRAM**  
**DETAIL 1**  
 NO SCALE



**TYPICAL RAILING AND PLUG**  
**DETAIL 2**  
 1 1/2\"/>

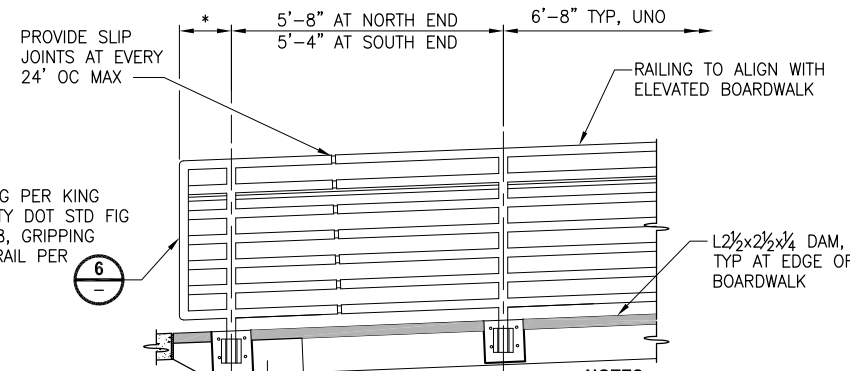


**RAIL POST OUTSIDE**  
**DETAIL 3**  
 1 1/2\"/>



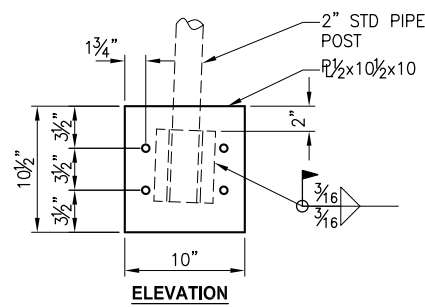
**RAIL POST INSIDE**  
**DETAIL 4**  
 1 1/2\"/>

\*0'-10" AT NORTHWEST CORNER  
 1'-8" AT NORTHEAST CORNER  
 1'-0" AT SOUTH END BOTH SIDES

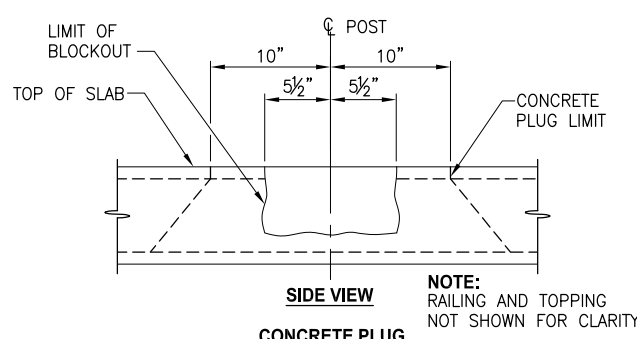


**HANDRAIL SECTION**  
**A**  
 NO SCALE

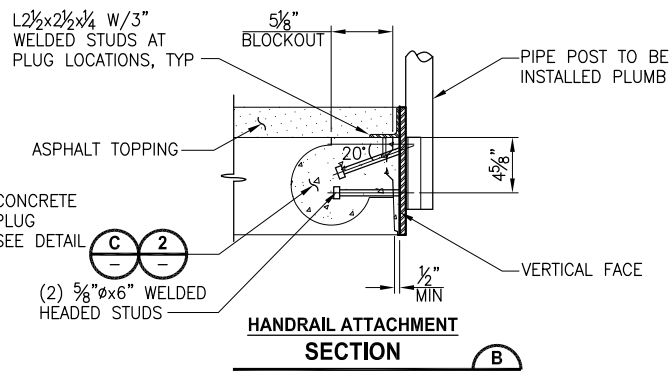
**NOTES:**  
 1. REFERENCE SHEET S1 FOR STRUCTURAL GENERAL NOTES  
 2. REFERENCE S2 FOR TOP OF BOARDWALK LAYOUT.  
 3. HANDRAIL REQUIRED FOR FULL LENGTH OF BOARDWALK.



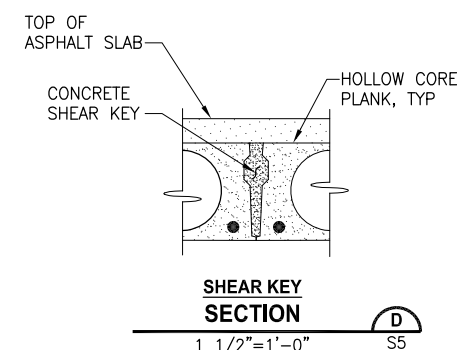
**ELEVATION**



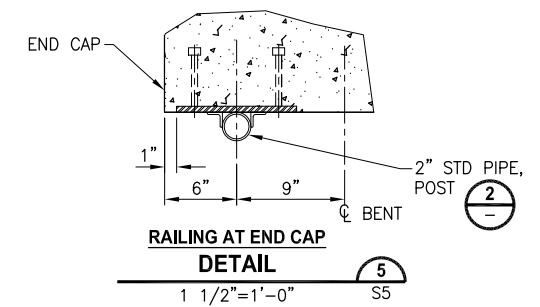
**SIDE VIEW CONCRETE PLUG SECTION**  
**C**  
 NO SCALE



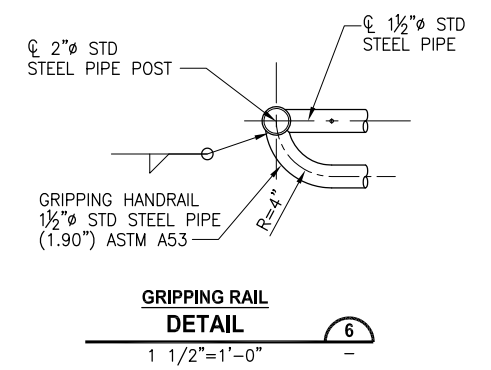
**HANDRAIL ATTACHMENT SECTION**  
**B**  
 NO SCALE



**SHEAR KEY SECTION**  
**D**  
 1 1/2\"/>



**RAILING AT END CAP**  
**DETAIL 5**  
 1 1/2\"/>



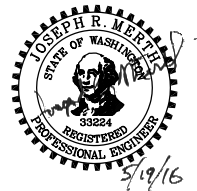
**GRIPPING RAIL**  
**DETAIL 6**  
 1 1/2\"/>

SNOHOMISH COUNTY  
 PLANNING DEVELOPMENT SERVICES  
 APPROVED FOR CONSTRUCTION  
 BY: \_\_\_\_\_  
 RANDOLPH R. SLEIGHT, P.E., P.L.S.  
 ROW PERMIT NO. \_\_\_\_\_

LAYOUT: S6  
 PATH: C:\PMX\Temp\AcPublish\_9460\  
 PLOTTED BY: millenial DATE: Thursday, May 19, 2016 12:18:08 PM

REVISIONS	DATE	BY	DESIGNED
			B. SCHLACHTER
			A. VALENCIA
			D. MCINTIER
			J. MERTH

**ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY**  
 FILE NAME: PS1598078P01T04-S2  
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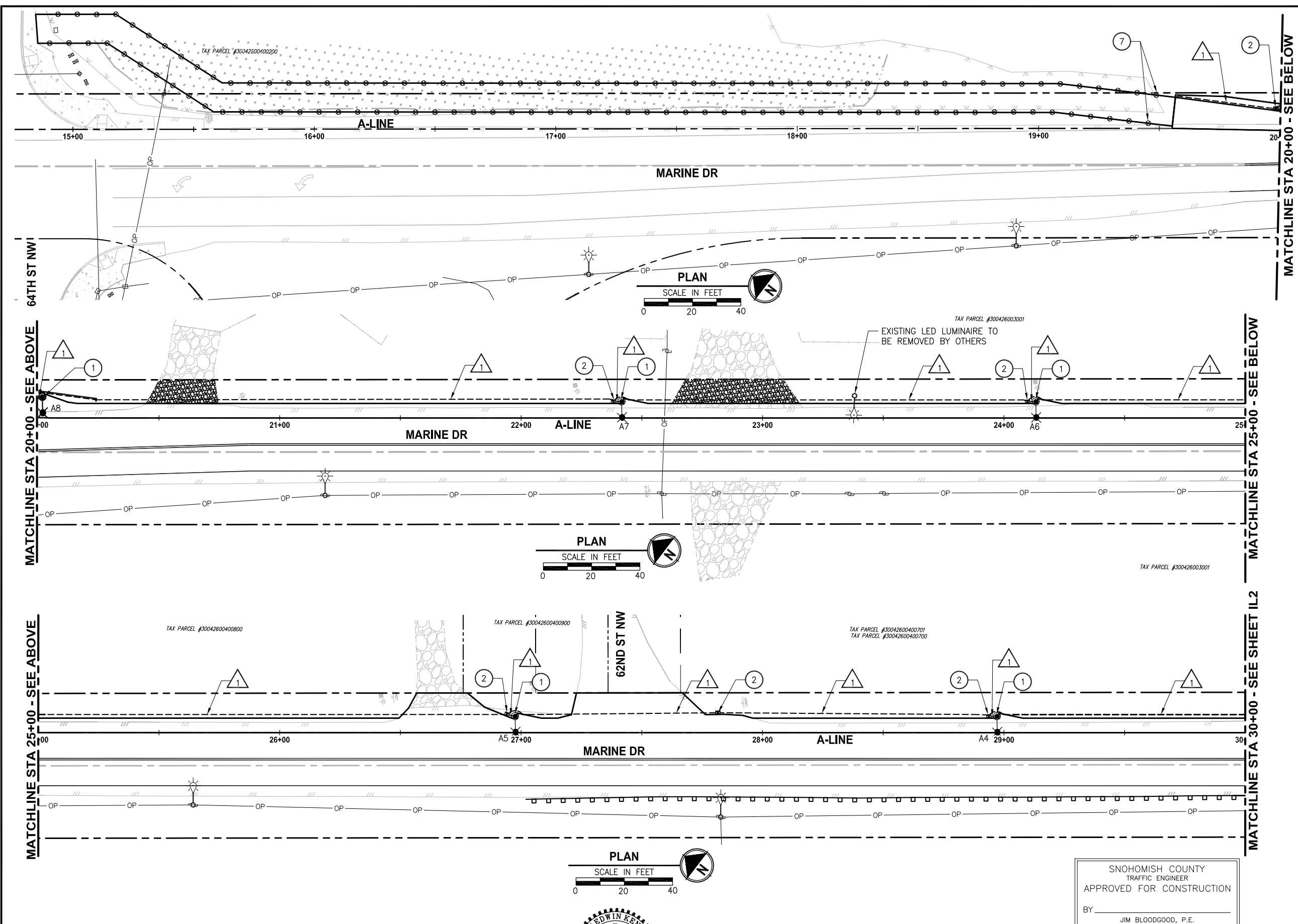
PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS**  
**PHASE 1: 7TH DRIVE NW TO 64TH STREET NW**  
**THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**BOARDWALK DETAILS**

SHEET NO.  
 28 OF 40  
**S6**



LAYOUT: IL1  
 PATH: C:\PMX\Temp\AsPublish\_9460\  
 PLOTTED BY: millerd  
 DATE: Thursday, May 19, 2016 12:20:39 PM



- CONSTRUCTION NOTES:**
- 1 CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, MAST ARM AND LUMINAIRE HEAD PER LUMINAIRE SCHEDULE ON SHEET IL8.
  - 2 CONSTRUCT TYPE 4 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.20-02.
  - 3 TERMINATE CONDUIT AND WIRE AT PUD INSTALLED SERVICE PEDESTAL AT BASE OF POLE FOR FINAL PUD SERVICE CONNECTION.
  - 4 CONSTRUCT ILLUMINATION SERVICE CABINET FOUNDATION PER DETAIL 4, SHEET IL8. SEE SHEET IL9 FOR SERVICE CABINET DETAILS.
  - 5 CONSTRUCT TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03.
  - 6 CONSTRUCT CONDUITS ACROSS MARINE DRIVE BY DIRECTIONAL BORE.
  - 7 CONSTRUCT LIGHTS AND CONTROLS IN GRIPPING RAIL OF BOARDWALK. INSTALL LIGHTS AT 8 FT SPACING. POINT OF CONNECTION SHOWN.

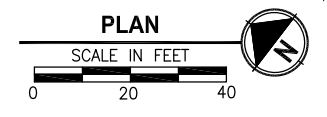
- GENERAL NOTES:**
1. UTILITY LOCATION PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
  2. ALL JUNCTION BOXES AND CONDUIT RUNS SHALL BE INSTALLED AS SHOWN ON THE PLANS. LOCATIONS SHOWN ARE SCHEMATIC AND THE ENGINEER WILL CONFIRM EXACT LOCATIONS.
  3. ALL EQUIPMENT AND CONDUIT SHALL BE GROUNDED PER NEC REQUIREMENTS.

- LEGEND:**
- STREET LIGHT
  - TYPE 4 JUNCTION BOX
  - TYPE 2 JUNCTION BOX
  - ILLUMINATION SERVICE CABINET
  - CONDUIT
  - WIRE NOTE
  - GRIPPING RAIL LIGHT

**WIRE NOTES:**

CONDUIT/WIRE SCHEDULE				
#	CONDUIT SIZE	FILL %	ILLUMINATION #8	POWER 3/0
1	2"	6%	2	
2	2"	28%		3
3	2"	10%	4	

- NOTES:**
1. ALL CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN ONE #8 AWG GROUND WIRE, NOT SHOW IN THE ABOVE TABLE.
  2. CONDUIT FROM POWER SOURCE TO SERVICE CABINET SHALL BE RIGID GALVANIZED STEEL (RGS). ALL OTHER CONDUIT SHALL BE PVC SCH 80.



SNOHOMISH COUNTY  
 TRAFFIC ENGINEER  
 APPROVED FOR CONSTRUCTION  
 BY: \_\_\_\_\_  
 JIM BLOODGOOD, P.E.



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 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
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 TULALIP, WASHINGTON

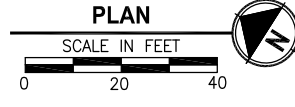
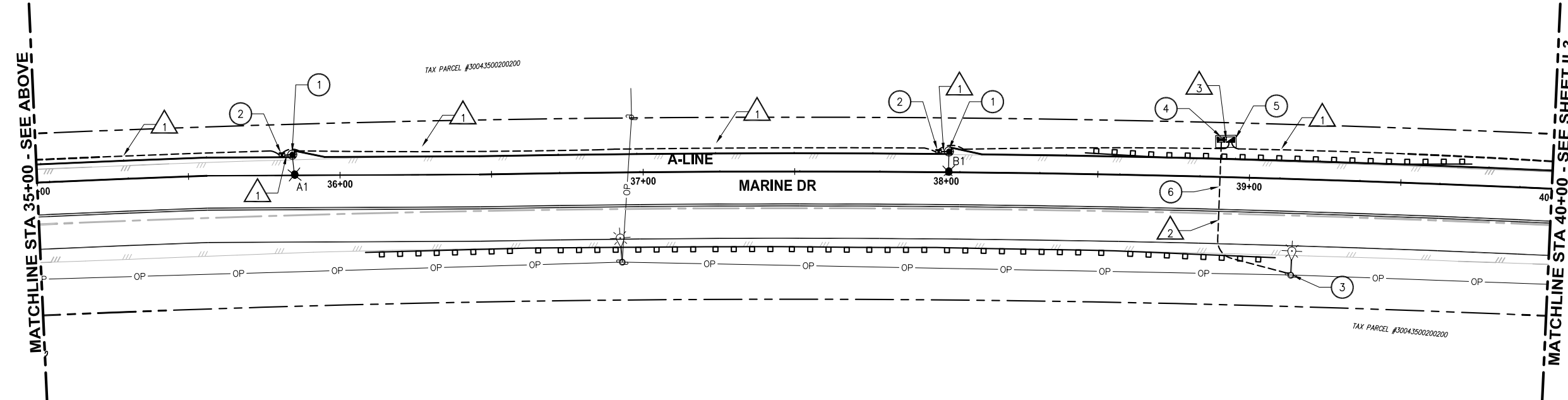
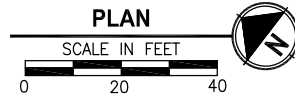
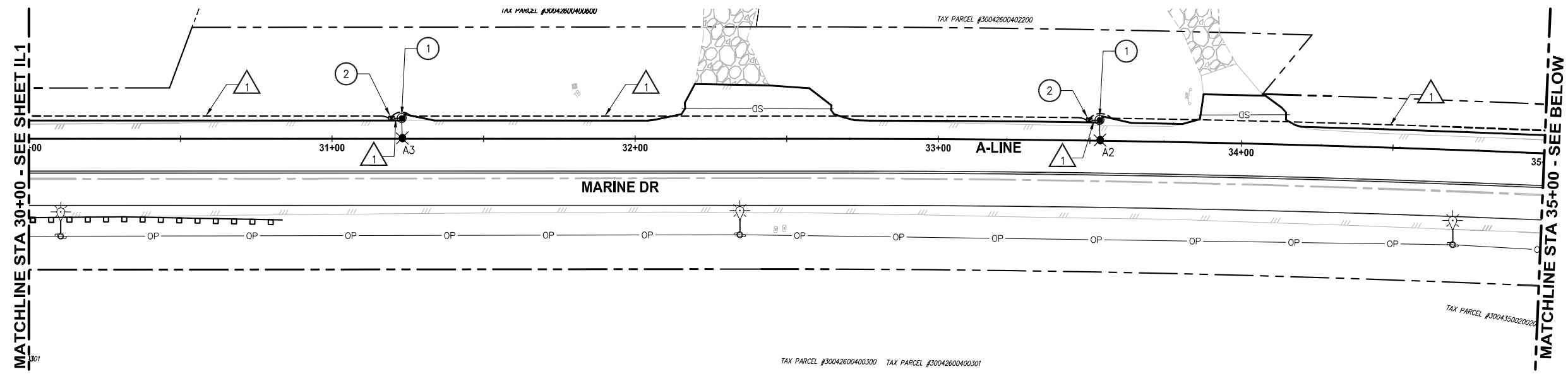
**ILLUMINATION PLAN  
 BEGIN PROJECT TO STA 30+00**

**811**  
 Know what's below.  
 Call before you dig.  
 SHEET NO.  
 29 OF 40  
**IL1**

REVISIONS	DATE	BY	DESIGNED
			M. KENDALL
			M. KENDALL
			E. SCHOTT
			A. FISHER

**ONE INCH AT FULL SCALE,  
 IF NOT, SCALE ACCORDINGLY**  
 FILE NAME  
 PS1598078P01T04-IL  
 JOB No.  
 554-1598-078 (01/05)  
 DATE  
 MAY 2016

LAYOUT: IL2 PATH: C:\PMX\Temp\AsPublish\_9460\ PLOTTED BY: millencal DATE: Thursday, May 19, 2016 12:20:52 PM



- CONSTRUCTION NOTES:**
1. CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, MAST ARM AND LUMINAIRE HEAD PER LUMINAIRE SCHEDULE ON SHEET IL8.
  2. CONSTRUCT TYPE 4 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.20-02.
  3. TERMINATE CONDUIT AND WIRE AT PUD INSTALLED SERVICE PEDESTAL AT BASE OF POLE FOR FINAL PUD SERVICE CONNECTION.
  4. CONSTRUCT ILLUMINATION SERVICE CABINET FOUNDATION PER DETAIL 4, SHEET IL8. SEE SHEET IL9 FOR SERVICE CABINET DETAILS.
  5. CONSTRUCT TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03.
  6. CONSTRUCT CONDUITS ACROSS MARINE DRIVE BY DIRECTIONAL BORE.
  7. CONSTRUCT LIGHTS AND CONTROLS IN GRIPPING RAIL OF BOARDWALK. INSTALL LIGHTS AT 8 FT SPACING. POINT OF CONNECTION SHOWN.

- GENERAL NOTES:**
1. UTILITY LOCATION PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
  2. ALL JUNCTION BOXES AND CONDUIT RUNS SHALL BE INSTALLED AS SHOWN ON THE PLANS. LOCATIONS SHOWN ARE SCHEMATIC AND THE ENGINEER WILL CONFIRM EXACT LOCATIONS.
  3. ALL EQUIPMENT AND CONDUIT SHALL BE GROUNDED PER NEC REQUIREMENTS.

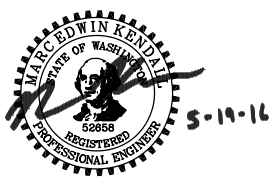
- LEGEND:**
- STREET LIGHT
  - TYPE 4 JUNCTION BOX
  - TYPE 2 JUNCTION BOX
  - ILLUMINATION SERVICE CABINET
  - CONDUIT
  - WIRE NOTE
  - GRIPPING RAIL LIGHT

**WIRE NOTES:**

CONDUIT/WIRE SCHEDULE				
△ #	CONDUIT SIZE	FILL %	ILLUMINATION #8	POWER 3/0
1	2"	6%	2	
2	2"	28%		3
3	2"	10%	4	

- NOTES:**
1. ALL CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN ONE #8 AWG GROUND WIRE, NOT SHOW IN THE ABOVE TABLE.
  2. CONDUIT FROM POWER SOURCE TO SERVICE CABINET SHALL BE RIGID GALVANIZED STEEL (RGS). ALL OTHER CONDUIT SHALL BE PVC SCH 80.

SNOHOMISH COUNTY  
TRAFFIC ENGINEER  
APPROVED FOR CONSTRUCTION  
BY: \_\_\_\_\_  
JIM BLOODGOOD, P.E.



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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
THE TULALIP TRIBES**  
TULALIP, WASHINGTON

**ILLUMINATION PLAN  
STA 30+00 TO STA 40+00**

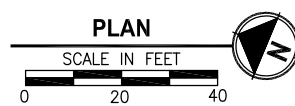
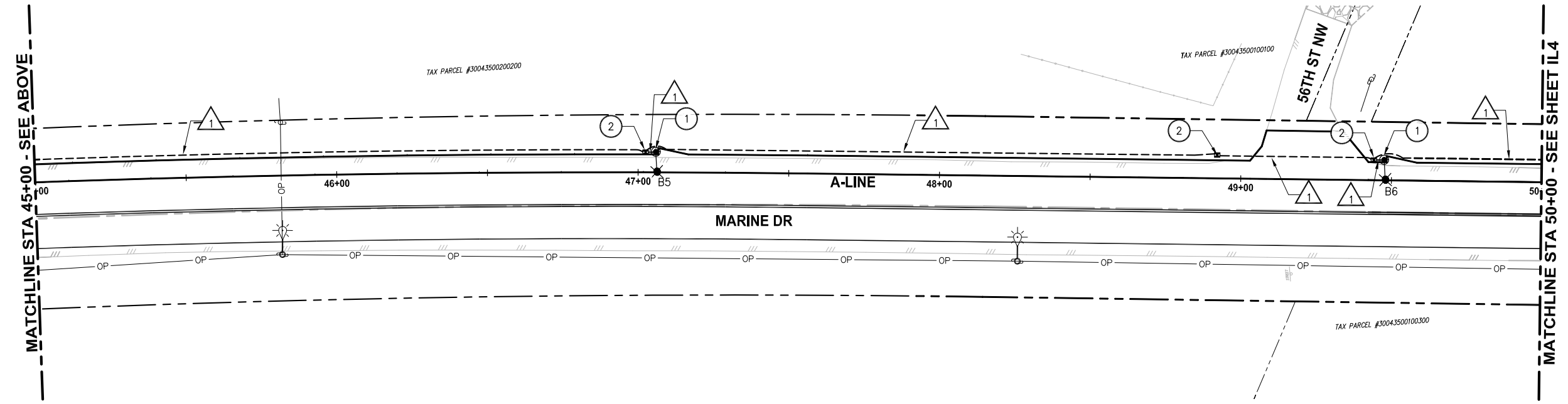
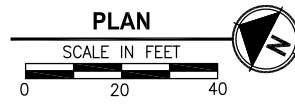
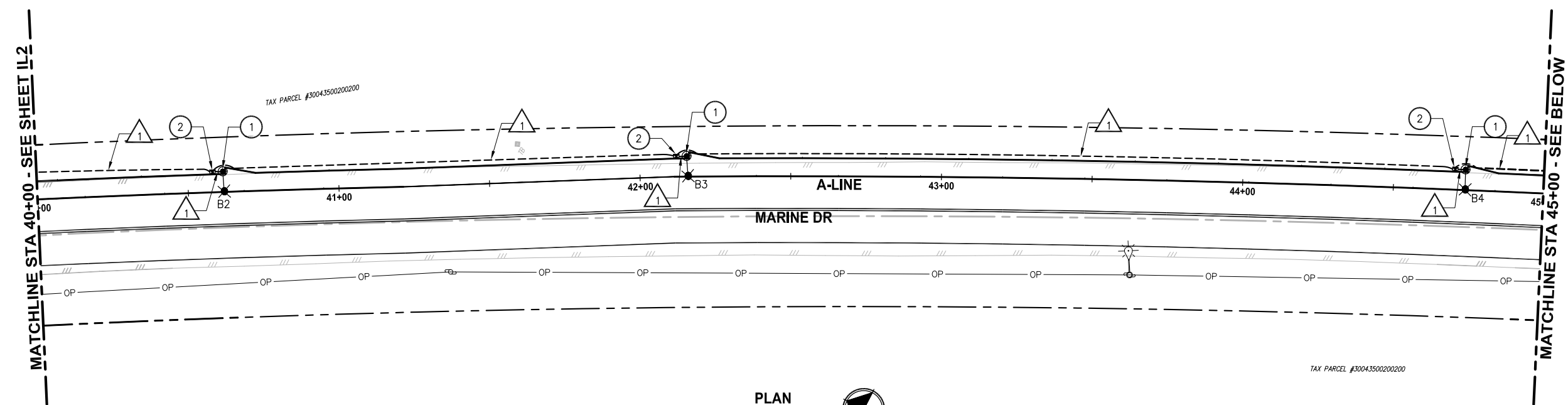


SHEET NO.  
30 OF 40  
**IL2**

REVISIONS	DATE	BY	DESIGNED
			M. KENDALL
			M. KENDALL
			E. SCHOTT
			A. FISHER

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY  
FILE NAME  
PS1598078P01T04-IL  
JOB No.  
554-1598-078 (01/05)  
DATE  
MAY 2016

LAYOUT: IL3 PATH: C:\PMX\Temp\AsPublish\_9460\ PLOTTED BY: millencal DATE: Thursday, May 19, 2016 12:20:57 PM



- CONSTRUCTION NOTES:**
- 1 CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, MAST ARM AND LUMINAIRE HEAD PER LUMINAIRE SCHEDULE ON SHEET IL8.
  - 2 CONSTRUCT TYPE 4 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.20-02.
  - 3 TERMINATE CONDUIT AND WIRE AT PUD INSTALLED SERVICE PEDESTAL AT BASE OF POLE FOR FINAL PUD SERVICE CONNECTION.
  - 4 CONSTRUCT ILLUMINATION SERVICE CABINET FOUNDATION PER DETAIL 4, SHEET IL8. SEE SHEET IL9 FOR SERVICE CABINET DETAILS.
  - 5 CONSTRUCT TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03.
  - 6 CONSTRUCT CONDUITS ACROSS MARINE DRIVE BY DIRECTIONAL BORE.
  - 7 CONSTRUCT LIGHTS AND CONTROLS IN GRIPPING RAIL OF BOARDWALK. INSTALL LIGHTS AT 8 FT SPACING. POINT OF CONNECTION SHOWN.

- GENERAL NOTES:**
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  2. ALL JUNCTION BOXES AND CONDUIT RUNS SHALL BE INSTALLED AS SHOWN ON THE PLANS. LOCATIONS SHOWN ARE SCHEMATIC AND THE ENGINEER WILL CONFIRM EXACT LOCATIONS.
  3. ALL EQUIPMENT AND CONDUIT SHALL BE GROUNDED PER NEC REQUIREMENTS.

- LEGEND:**
- STREET LIGHT
  - TYPE 4 JUNCTION BOX
  - TYPE 2 JUNCTION BOX
  - ILLUMINATION SERVICE CABINET
  - CONDUIT
  - WIRE NOTE
  - GRIPPING RAIL LIGHT

**WIRE NOTES:**

CONDUIT/WIRE SCHEDULE				
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SNOHOMISH COUNTY  
TRAFFIC ENGINEER  
APPROVED FOR CONSTRUCTION  
BY: \_\_\_\_\_  
JIM BLOODGOOD, P.E.



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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
THE TULALIP TRIBES**  
TULALIP, WASHINGTON

**ILLUMINATION PLAN  
STA 40+00 TO STA 50+00**

SHEET NO.  
31 OF 40  
**IL3**

REVISIONS	DATE	BY	DESIGNED
			M. KENDALL
			M. KENDALL
			E. SCHOTT
			A. FISHER

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY  
FILE NAME  
PS1598078P01T04-IL  
JOB No.  
554-1598-078 (01/05)  
DATE  
MAY 2016



LAYOUT: IL4  
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MATCHLINE STA 50+00 - SEE SHEET IL-3

MATCHLINE STA 55+00 - SEE ABOVE

MATCHLINE STA 55+00 - SEE BELOW

MATCHLINE STA 60+00 - SEE SHEET IL5

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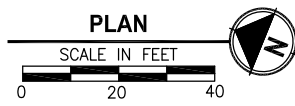
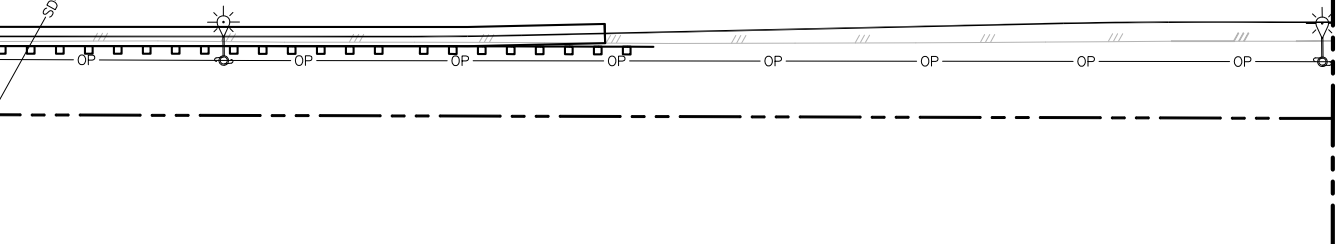
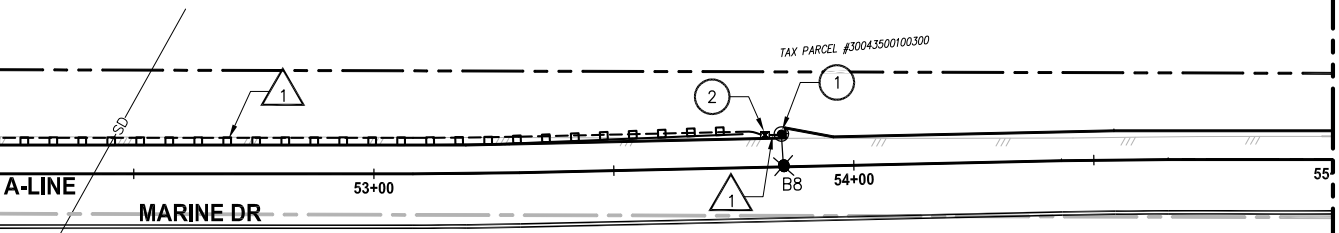
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TAX PARCEL #30043500100300

TAX PARCEL #30043500100300

TAX PARCEL #30043500100300

TAX PARCEL #30043500100300



- CONSTRUCTION NOTES:**
- 1 CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, MAST ARM AND LUMINAIRE HEAD PER LUMINAIRE SCHEDULE ON SHEET IL8.
  - 2 CONSTRUCT TYPE 4 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.20-02.
  - 3 TERMINATE CONDUIT AND WIRE AT PUD INSTALLED SERVICE PEDESTAL AT BASE OF POLE FOR FINAL PUD SERVICE CONNECTION.
  - 4 CONSTRUCT ILLUMINATION SERVICE CABINET FOUNDATION PER DETAIL 4, SHEET IL8. SEE SHEET IL9 FOR SERVICE CABINET DETAILS.
  - 5 CONSTRUCT TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03.
  - 6 CONSTRUCT CONDUITS ACROSS MARINE DRIVE BY DIRECTIONAL BORE.
  - 7 CONSTRUCT LIGHTS AND CONTROLS IN GRIPPING RAIL OF BOARDWALK. INSTALL LIGHTS AT 8 FT SPACING. POINT OF CONNECTION SHOWN.

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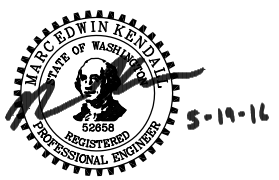
- LEGEND:**
- STREET LIGHT
  - TYPE 4 JUNCTION BOX
  - TYPE 2 JUNCTION BOX
  - ILLUMINATION SERVICE CABINET
  - CONDUIT
  - WIRE NOTE
  - GRIPPING RAIL LIGHT

**WIRE NOTES:**

CONDUIT/WIRE SCHEDULE				
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1	2"	6%	2	
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SNOHOMISH COUNTY  
 TRAFFIC ENGINEER  
 APPROVED FOR CONSTRUCTION  
 BY: \_\_\_\_\_  
 JIM BLOODGOOD, P.E.



5-19-16

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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**ILLUMINATION PLAN  
 STA 50+00 TO STA 60+00**

SHEET NO.  
 32 OF 40  
**IL4**

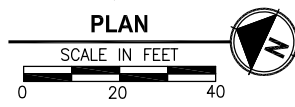
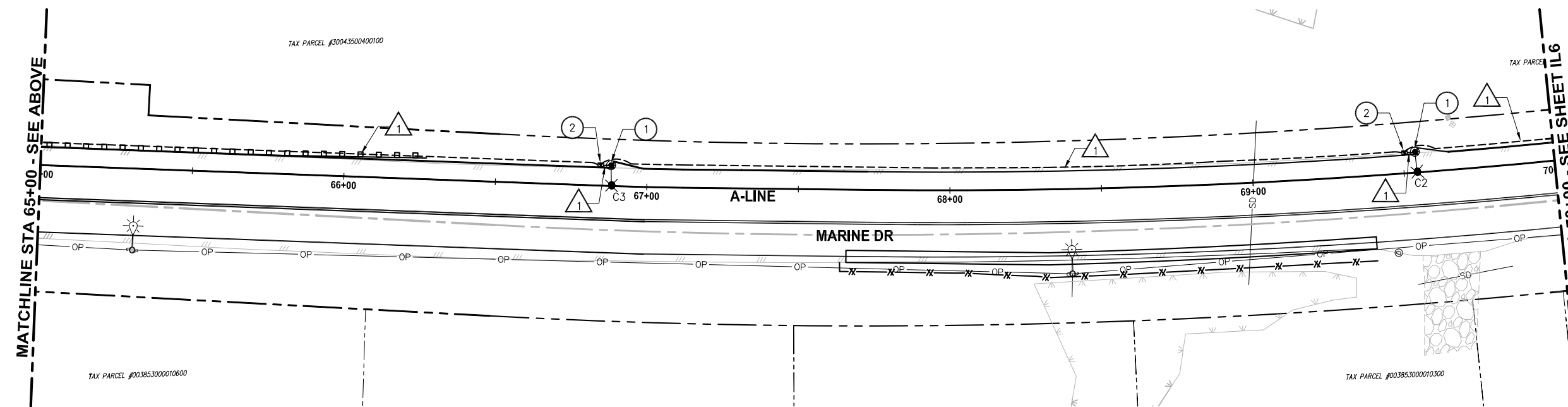
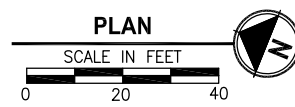
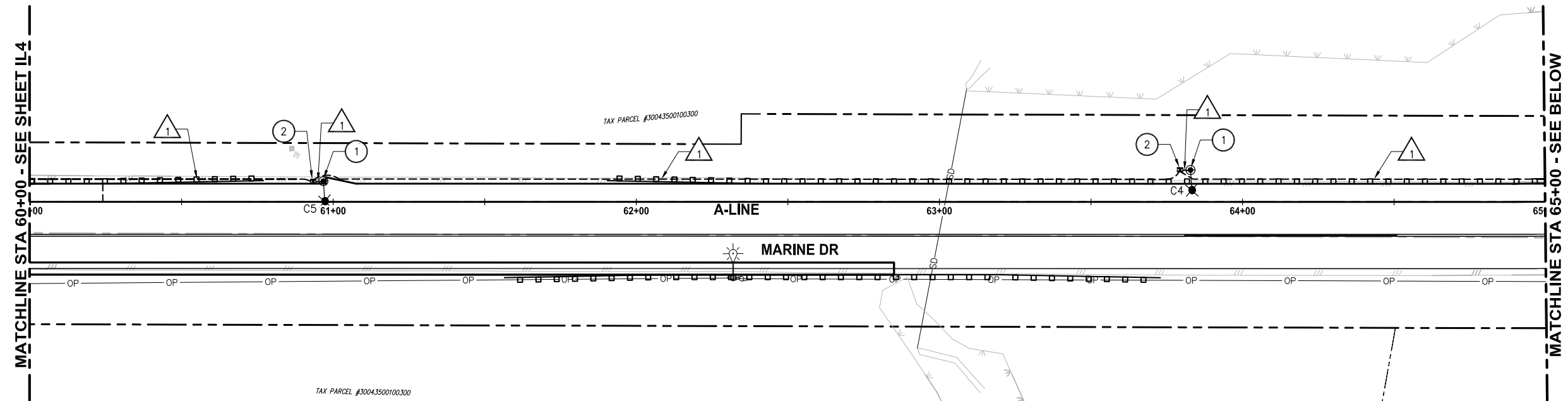
REVISIONS	DATE	BY	DESIGNED
			M. KENDALL
			M. KENDALL
			E. SCHOTT
			A. FISHER

ONE INCH AT FULL SCALE.  
 IF NOT, SCALE ACCORDINGLY  
 FILE NAME  
 PS1598078P01T04-IL  
 JOB No.  
 554-1598-078 (01/05)  
 DATE  
 MAY 2016





LAYOUT: IL5  
 PATH: C:\PMX\Temp\Ae\Pub\sh\_9460\  
 PLOTTED BY: millencal DATE: Thursday, May 19, 2016 12:21:07 PM



- CONSTRUCTION NOTES:**
- 1 CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, MAST ARM AND LUMINAIRE HEAD PER LUMINAIRE SCHEDULE ON SHEET IL8.
  - 2 CONSTRUCT TYPE 4 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.20-02.
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- LEGEND:**
- STREET LIGHT
  - TYPE 4 JUNCTION BOX
  - TYPE 2 JUNCTION BOX
  - ILLUMINATION SERVICE CABINET
  - CONDUIT
  - WIRE NOTE
  - GRIPPING RAIL LIGHT

**WIRE NOTES:**

CONDUIT/WIRE SCHEDULE				
#	CONDUIT SIZE	FILL %	ILLUMINATION #8	POWER 3/0
1	2"	6%	2	
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SNOHOMISH COUNTY  
 TRAFFIC ENGINEER  
 APPROVED FOR CONSTRUCTION  
 BY: \_\_\_\_\_  
 JIM BLOODGOOD, P.E.



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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

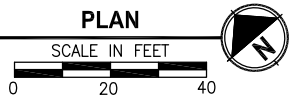
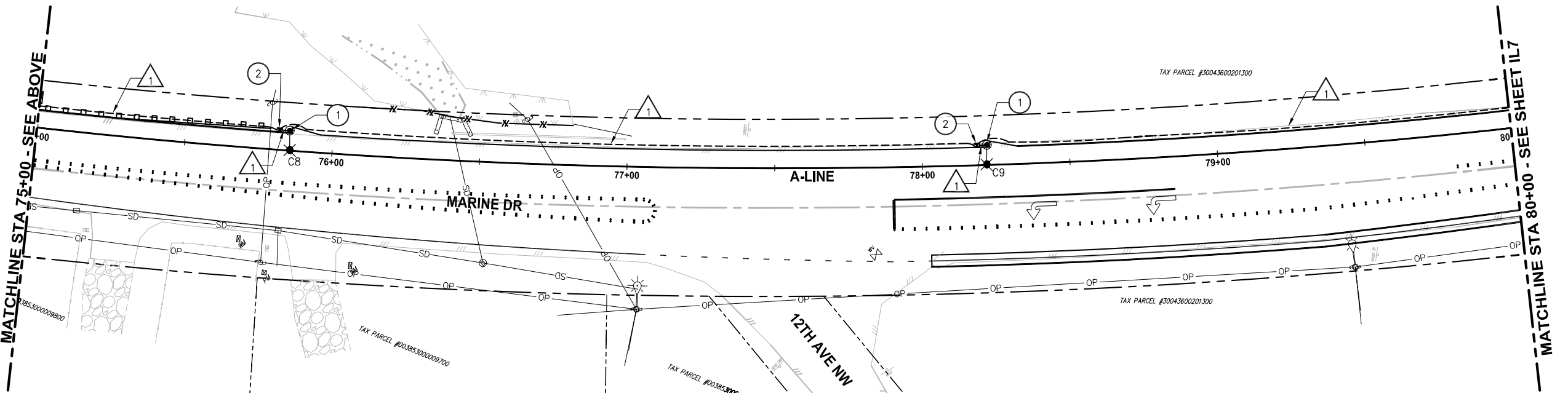
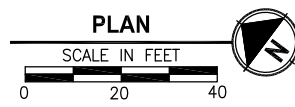
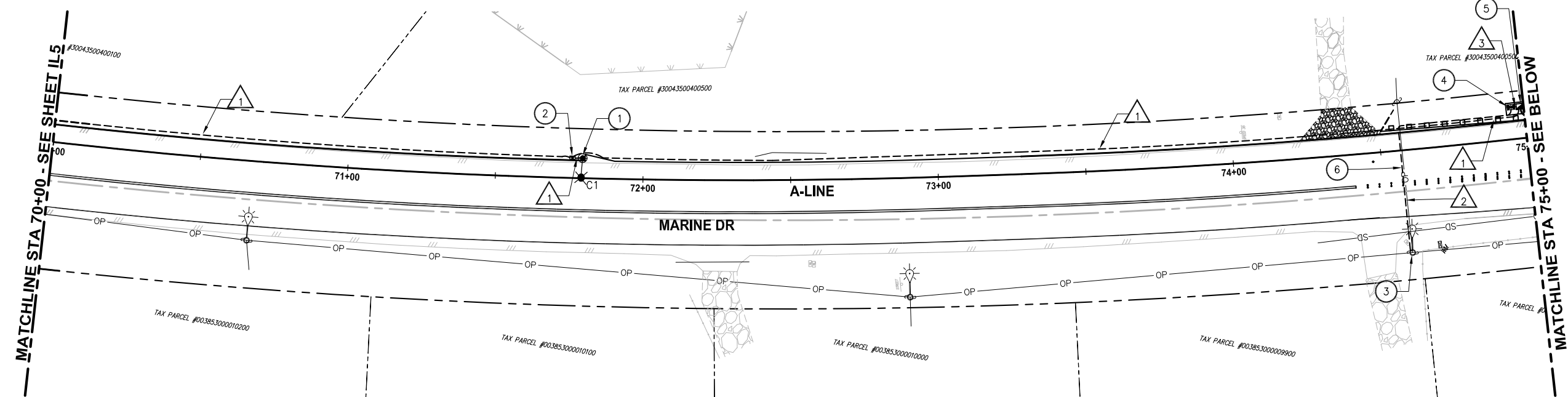
**ILLUMINATION PLAN  
 STA 60+00 TO STA 70+00**

**811**  
 Know what's below.  
 Call before you dig.  
 SHEET NO.  
 33 OF 40  
**IL5**

REVISIONS	DATE	BY	DESIGNED
			M. KENDALL
			M. KENDALL
			E. SCHOTT
			A. FISHER

ONE INCH AT FULL SCALE.  
 IF NOT, SCALE ACCORDINGLY  
 FILE NAME  
 PS1598078P01T04-IL  
 JOB No.  
 554-1598-078 (01/05)  
 DATE  
 MAY 2016

LAYOUT: IL6  
 PATH: C:\PWA\Temp\Ae\Pub\sh\_9460\  
 PLOTTED BY: millencal DATE: Thursday, May 19, 2016 12:21:12 PM



- CONSTRUCTION NOTES:**
- 1 CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, MAST ARM AND LUMINAIRE HEAD PER LUMINAIRE SCHEDULE ON SHEET IL8.
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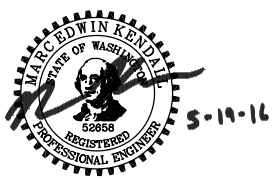
- LEGEND:**
- STREET LIGHT
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CONDUIT/WIRE SCHEDULE				
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SNOHOMISH COUNTY  
 TRAFFIC ENGINEER  
 APPROVED FOR CONSTRUCTION  
 BY: \_\_\_\_\_  
 JIM BLOODGOOD, P.E.



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 WWW.PARAMETRIX.COM

PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
 PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
 THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**ILLUMINATION PLAN  
 STA 70+00 TO STA 80+00**

**811**  
 Know what's below.  
 Call before you dig.  
 SHEET NO.  
 34 OF 40  
**IL6**

REVISIONS	DATE	BY	DESIGNED
			M. KENDALL
			M. KENDALL
			E. SCHOTT
			A. FISHER

ONE INCH AT FULL SCALE.  
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 JOB No.  
 554-1598-078 (01/05)  
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**CONSTRUCTION NOTES:**

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**LEGEND:**

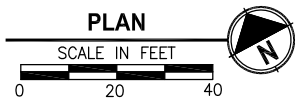
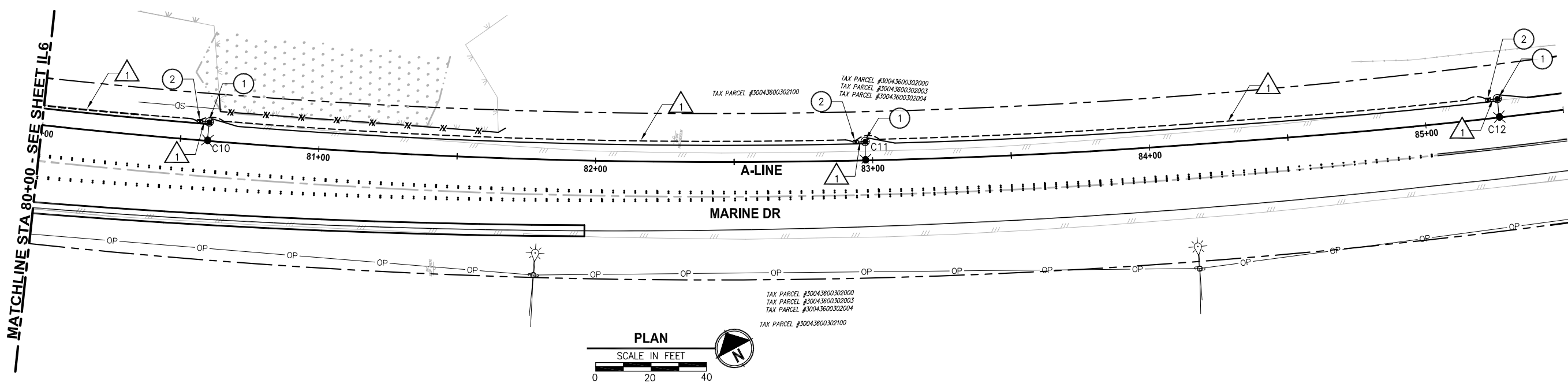
- STREET LIGHT
- TYPE 4 JUNCTION BOX
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**NOTES:**

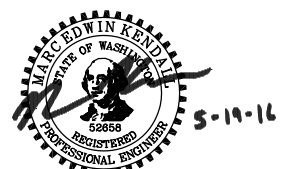
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LAYOUT: IL7  
 PATH: C:\PMX\Temp\Ae\Pub\sh\_9460\  
 PLOTTED BY: millencal DATE: Thursday, May 19, 2016 12:21:17 PM

REVISIONS	DATE	BY	DESIGNED
			M. KENDALL
			M. KENDALL
			E. SCHOTT
			A. FISHER

**ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY**  
 FILE NAME: PSI1598078P01T04-IL  
 JOB No: 554-1598-078 (01/05)  
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PROJECT NAME  
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**PHASE 1: 7TH DRIVE NW TO 64TH STREET NW**  
 THE TULALIP TRIBES  
 TULALIP, WASHINGTON

SNOHOMISH COUNTY  
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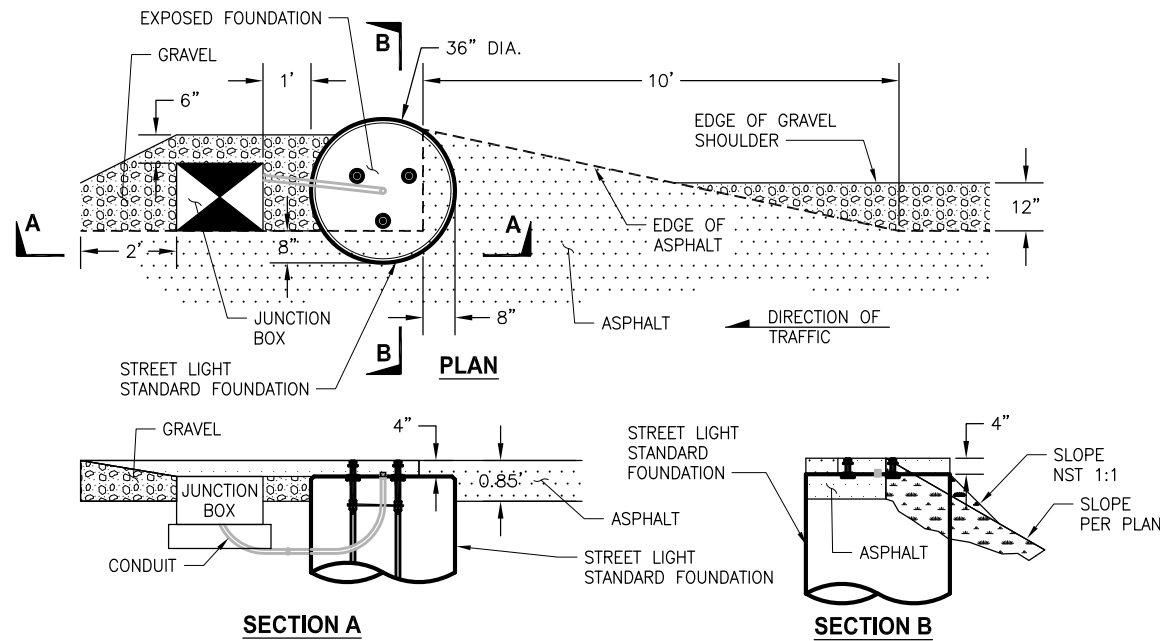
**ILLUMINATION PLAN**  
**STA 80+00 TO STA 85+50**

Know what's below.  
 Call before you dig.  
 SHEET NO.  
 35 OF 40  
**IL7**

LUMINAIRE SCHEDULE				
LUMINAIRE NO.	CIRCUIT	FOUNDATION	STATION	OFFSET
A1	A	NOTE 1	35+84	6.9' LT
A2	A	NOTE 1	33+53	6.9' LT
A3	A	NOTE 1	31+23	6.9' LT
A4	A	NOTE 1	28+97	6.9' LT
A5	A	NOTE 1	26+98	6.9' LT
A6	A	NOTE 1	24+13	6.9' LT
A7	A	NOTE 1	22+42	6.9' LT
A8	A	NOTE 1	20+01	8.7' LT
B1	B	NOTE 1	38+01	6.9' LT
B2	B	NOTE 1	40+62	6.9' LT
B3	B	NOTE 1	42+15	6.9' LT
B4	B	NOTE 1	44+74	6.9' LT
B5	B	NOTE 1	47+06	6.9' LT
B6	B	NOTE 1	49+48	6.9' LT
B7	B	NOTE 1	51+60	6.9' LT
B8	B	NOTE 1	53+85	6.9' LT
C1	C	NOTE 1	71+79	6.9' LT
C2	C	NOTE 1	69+54	6.9' LT
C3	C	NOTE 1	66+88	6.9' LT
C4	C	NOTE 2	63+83	10.5' LT
C5	C	NOTE 1	60+97	6.9' LT
C6	C	NOTE 2	58+38	10.5' LT
C7	C	NOTE 1	56+08	6.9' LT
C8	C	NOTE 1	75+85	6.9' LT
C9	C	NOTE 1	78+22	6.9' LT
C10	C	NOTE 1	80+60	6.9' LT
C11	C	NOTE 1	82+97	6.9' LT
C12	C	NOTE 1	85+27	6.9' LT

**STREET LIGHT NOTES:**

- STREET LIGHT STANDARD FOUNDATION SHALL BE PER WSDOT STANDARD PLAN J-28.30-03, TYPE B, SLIP BASE WITH PLACEMENT IN RELATION TO SHOULDER AS SHOWN IN DETAIL 1, THIS SHEET.
- STREET LIGHT STANDARD FOUNDATION SHALL BE PER WSDOT STANDARD PLAN J-28.30-03, FIXED BASE, WITH MODIFIED 12' DEPTH. PLACEMENT PER WSDOT STANDARD PLAN J-28.24-01, CASE F.
- STREET LIGHT POLES SHALL BE ORIENTED WITH MAST ARMS PERPENDICULAR TO MARINE DRIVE.
- STREET LIGHTS SHALL HAVE 30 FT MOUNTING HEIGHT WITH 6 FT ARM.
- LUMINAIRES SHALL BE LEOTEK MODEL EC4-14M-MV-NW-2-GY-700.
- LUMINAIRE STATION AND OFFSET ARE FROM A-LINE TO CENTER OF POLE.



**GENERAL NOTES:**

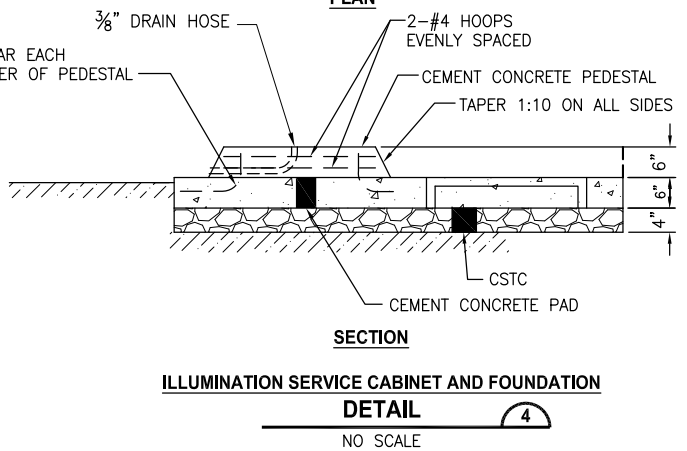
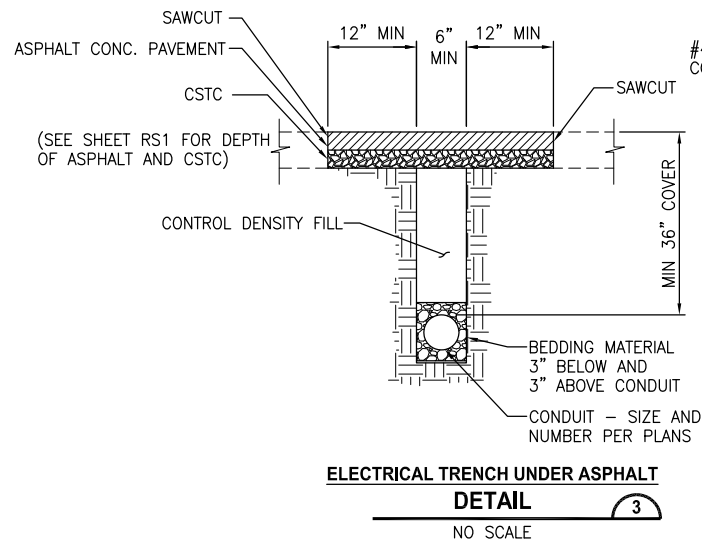
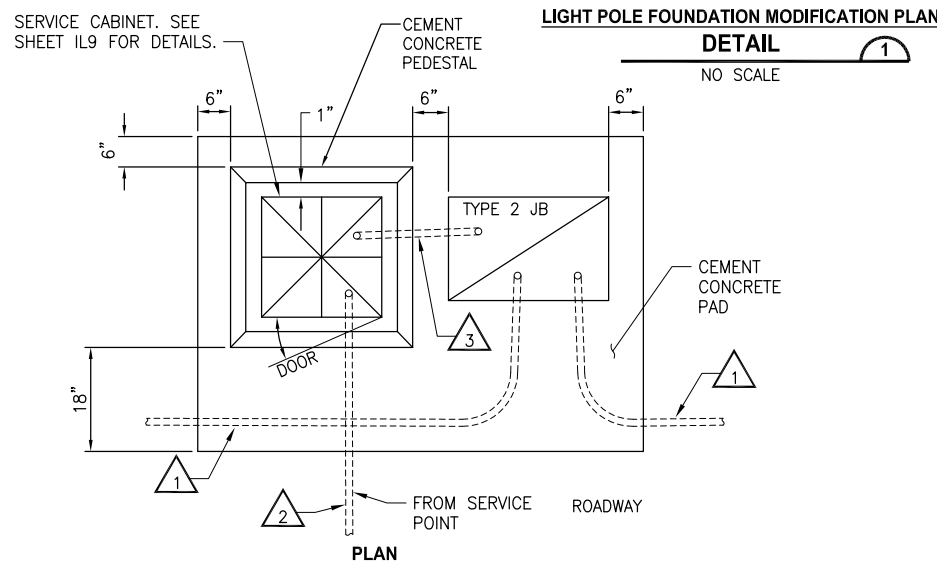
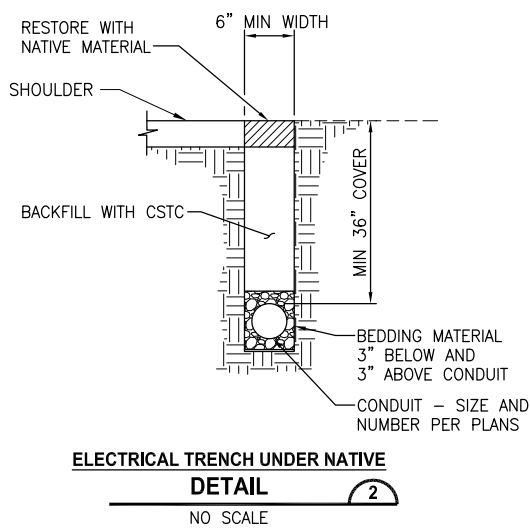
- UTILITY LOCATION PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- ALL JUNCTION BOXES AND CONDUIT RUNS SHALL BE INSTALLED AS SHOWN ON THE PLANS. LOCATIONS SHOWN ARE SCHEMATIC AND THE ENGINEER WILL CONFIRM EXACT LOCATIONS.
- ALL EQUIPMENT AND CONDUIT SHALL BE GROUNDED PER NEC REQUIREMENTS.

**WIRE NOTES:**

CONDUIT/WIRE SCHEDULE				
#	CONDUIT SIZE	FILL %	ILLUMINATION #8	POWER 3/0
1	2"	6%	2	
2	2"	28%		3
3	2"	10%	4	

**NOTES:**

- ALL CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN ONE #8 AWG GROUND WIRE, NOT SHOW IN THE ABOVE TABLE.
- CONDUIT FROM POWER SOURCE TO SERVICE CABINET SHALL BE RIGID GALVANIZED STEEL (RGS). ALL OTHER CONDUIT SHALL BE PVC SCH 80.



**SERVICE CABINET FOUNDATION NOTES:**

- SEE WSDOT STANDARD PLANS FOR GROUNDING DETAILS.
- SEAL CABINET TO PEDESTAL WITH SILICON SEALANT. PLACE SEALANT ON PEDESTAL AND SET CABINET ONTO SEALANT. REMOVE EXCESS SEALANT.
- INSTALL 3/8" DRAIN HOSE FROM THE CABINET THROUGH THE PEDESTAL. TRIM HOSE FLUSH WITH TOP OF PEDESTAL.
- SEE PLANS FOR NUMBER, SIZE AND ROUTING OF CONDUITS AND WIRE.

SNOHOMISH COUNTY  
TRAFFIC ENGINEER  
APPROVED FOR CONSTRUCTION  
BY: JIM BLOODGOOD, P.E.

LAYOUT: IL8 PATH: C:\PWA\Temp\Ae\Pub\sh\_9460\ PLOTTED BY: millencal DATE: Thursday, May 19, 2016 12:21:21 PM

REVISIONS	DATE	BY	DESIGNED
			M. KENDALL
			M. KENDALL
			E. SCHOTT
			A. FISHER

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY  
FILE NAME: PS1598078P01T04-IL  
JOB No: 554-1598-078 (01/05)  
DATE: MAY 2016



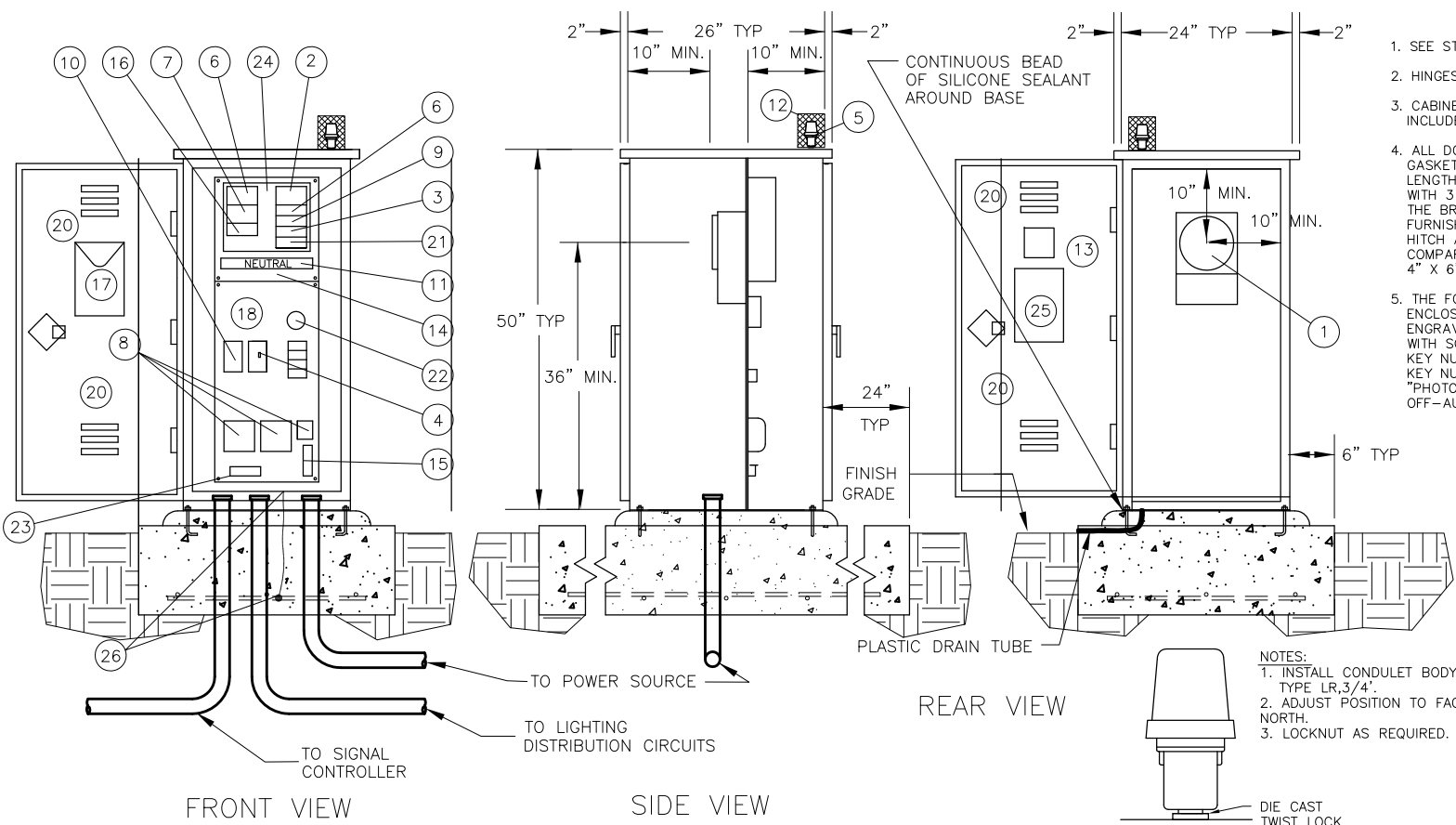
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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
THE TULALIP TRIBES**  
TULALIP, WASHINGTON

**ILLUMINATION DETAILS**

**811**  
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36 OF 40  
**IL8**

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- SEE STD. SPECIFICATION 9-29.24, SERVICE CABINETS.
- HINGES SHALL HAVE BRASS PINS.
- CABINETS SHALL BE RATED NEMA 3R AND SHALL INCLUDE TWO RAINTIGHT, SCREENED AND GASKETED VENTS.
- ALL DOORS SHALL BE FULLY CLOSED CELL NEOPRENE GASKETED. ATTACHED BY CONCEALED LIFT OFF FULL LENGTH STAINLESS STEEL PIANO HINGES AND PROVIDED WITH 3 POINT LATCH PADLOCKABLE VAULT HANDLES. THE BREAKER PANEL COMPARTMENT DOOR SHALL BE FURNISHED WITH A THREE-POINT, SPRING-LOADED HITCH AND A BEST CX CONSTRUCTION CORE. THE METER COMPARTMENT DOOR SHALL BE PROVIDED WITH TWO 4" X 6" POLISHED WIRE GLASS WINDOWS.
- THE FOLLOWING EQUIPMENT WITHIN THE SERVICE ENCLOSURE SHALL HAVE AN APPROPRIATELY ENGRAVED PHENOLIC NAME PLATE ATTACHED WITH SCREWS OR RIVETS.  
KEY NUMBERS 2, 3, 4, 7, 9, 11, 15 AND 19.  
KEY NUMBER 4 NAME PLATE SHALL READ: "PHOTOCELL BYPASS TEST ON" AND "PHOTOCELL TEST OFF-AUTOMATIC". SEE SERVICE CABINET DETAIL.
- METERING ARRANGEMENTS VARY WITH DIFFERENT SERVING UTILITIES. THE UTILITY MAY REQUIRE METER BASE MOUNTING IN THE ENCLOSURE, ON THE SIDE OR ON THE BACK OF THE ENCLOSURE. THE UTILITY MAY REQUIRE THE DIMENSION BETWEEN THE DOOR AND THE FRONT OF THE SAFETY SOCKET BOX DETAIL. THE CONTRACTOR SHALL VERIFY THE SERVING UTILITY'S REQUIREMENTS PRIOR TO FABRICATION OF AND INSTALLING THE SERVICE EQUIPMENT.
- DIMENSIONS SHOWN ARE MINIMUM AND SHALL BE ADJUSTED TO ACCOMMODATE THE VARIOUS SIZES OF EQUIPMENT INSTALLED.
- ALL BUSSWORK SHALL BE HIGH GRADE COPPER AND SHALL EQUAL OR EXCEED THE MAIN BREAKER RATING. ALL BREAKERS SHALL BOLT ONTO THE BUSSWORK. JUMPERING OF BREAKERS SHALL NOT BE ALLOWED. BUSSWORK SHALL ACCOMMODATE ALL FUTURE EQUIPMENT AS SHOWN IN THE BREAKER SCHEDULE.
- THE PHOTOCELL UNIT SHALL BE CENTERED IN THE PHOTOCELL ENCLOSURE TO PERMIT 360 DEGREE ROTATION OF THE PHOTOCELL WITHOUT REMOVAL OF THE PHOTOCELL UNIT OR PHOTOCELL ENCLOSURE.

**GENERAL NOTES**

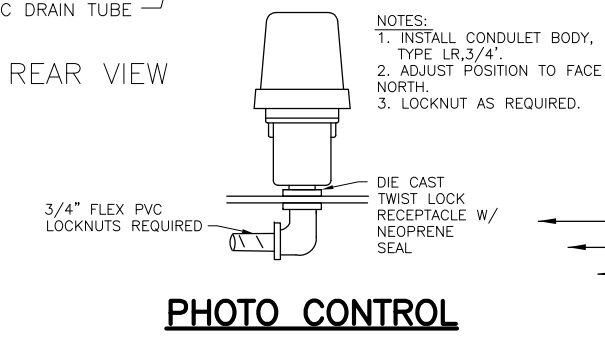
- ALL INTERNAL WIRE RUNS SHALL BE IDENTIFIED WITH "TO-FROM" CODED TAGS LABELED WITH THE CODE LETTERS AND/OR NUMBERS SHOWN ON THE SCHEDULES APPROVED PVC OR POLYOLEFIN WIRE MARKING SLEEVES SHALL BE USED.
- ALL NUTS, BOLTS AND WASHERS USED FOR MOUNTING THE PHOTOCELL ENCLOSURE SHALL BE STAINLESS STEEL.
- A 1/2" TOLERANCE IS ALLOWED FOR ALL DIMENSIONS.
- THE PHOTOCELL CIRCUIT SHALL BE INSTALLED IN FLEX CONDUIT WITHIN THE METER COMPARTMENT.
- INSTALL CONDUIT COUPLINGS ON ALL CONDUITS. PLACE COUPLINGS FLUSH WITH THE TOP OF THE CONCRETE FOUNDATION.
- SEE THIS PLAN FOR BREAKER SCHEDULE.
- SEAL CABINET TO FOUNDATION WITH A 1/2" BEAD OF SILICONE. APPLY SILICONE TO DRY SURFACE ONLY.
- THE METER BASE PORTION OF THIS SERVICE WAS DESIGNED TO MEET METERING PORTION OF EUSERC DRAWING 309 REQUIREMENTS.

**LEGEND**

- METER BASE PER SERVING UTILITY REQUIREMENTS. AS A MINIMUM, THE METER BASE SHALL BE SAFETY SOCKET BOX WITH FACTORY INSTALLED TEST BYPASS FACILITY THAT MEETS THE REQUIREMENTS OF THE EUSERC DRAWING 305.
- MAIN BREAKER (SEE BREAKER SCHEDULE).
- PHOTOCELL BREAKER (SPDT 10 AMP-120/240 VOLT).
- TEST SWITCH (SPDT 10 AMP-120/240 VOLT "T" RATED).
- PHOTOELECTRIC CONTROL, STD SPEC. 9-29.11(2).
- ILLUMINATION BREAKER (SEE BREAKER SCHEDULE).
- SIGNAL BREAKER (SEE BREAKER SCHEDULE).
- CONTACTOR (SEE BREAKER SCHEDULE).
- RECEPTACLE BREAKER (SPST 20 AMP-120/240 VOLT).
- RECEPTACLE GROUNDED (GFCI 20 AMP-125 VOLT).
- NEUTRAL BUSS, 10 LUG COPPER, #2-#14.
- PHOTOCELL ENCLOSURE-ENCLOSURE TO BE FABRICATED FROM 5/8" EXPANDED STEEL MESH WITH WELDED SEAMS AND MOUNTING FLANGES. HOT DIP GALVANIZED AFTER FABRICATION. TYPE 5052-H32 ALUMINUM WITH 5/5" X 5/8" OPENINGS EQUIVALENT TO 5/8" EXPANDED STEEL MESH MAY BE USED AS ALTERNATIVE MATERIAL. SEE PHOTOCELL ENCLOSURE MOUNTING DETAILS. STANDARD PLAN J-3b.
- HINGED FRONT FACING DOOR WITH 4" X 4" MINIMUM POLISHED WIRE GLASS WINDOW.
- HINGED DEAD FRONT WITH 1/4 TURN FASTENERS OR SLIDE LATCH.
- CABINET MAIN BONDING JUMPER. BUSS SHALL BE A LUG TINNED COPPER. SEE CABINET MAIN BONDING JUMPER DETAIL, STANDARD PLAN J-3b.
- SIGN LIGHT BREAKER (DPST 20 AMP-120/240 VOLT).
- METAL WIRING DIAGRAM HOLDER.
- REMOVABLE EQUIPMENT MOUNTING PAN.
- NOT USED.
- SCREENED VENTS, 2 REQUIRED, 1 EACH SIDE, LOUVERED PLATES.
- HEATER BREAKER (SPST 15 AMP-120/240 VOLT).
- THERMOSTAT, 40 DEGREE F CLOSURE-3 DIFFERENTIAL.
- STRIP HEATER (100 WATT NORMAL), WITH TERMINAL STRIP COVER.
- 24 CIRCUIT PANEL BOARD-MINIMUM SIZE WITH SEPARATE MAIN BREAKER.
- LABEL CABINET WITH BUSSWORK RATING.
- CONCRETE-ENCASED ELECTRODE

**SERVICE CABINET TYPE D MODIFIED  
DETAILS FOR STAND ALONE**

N.T.C.



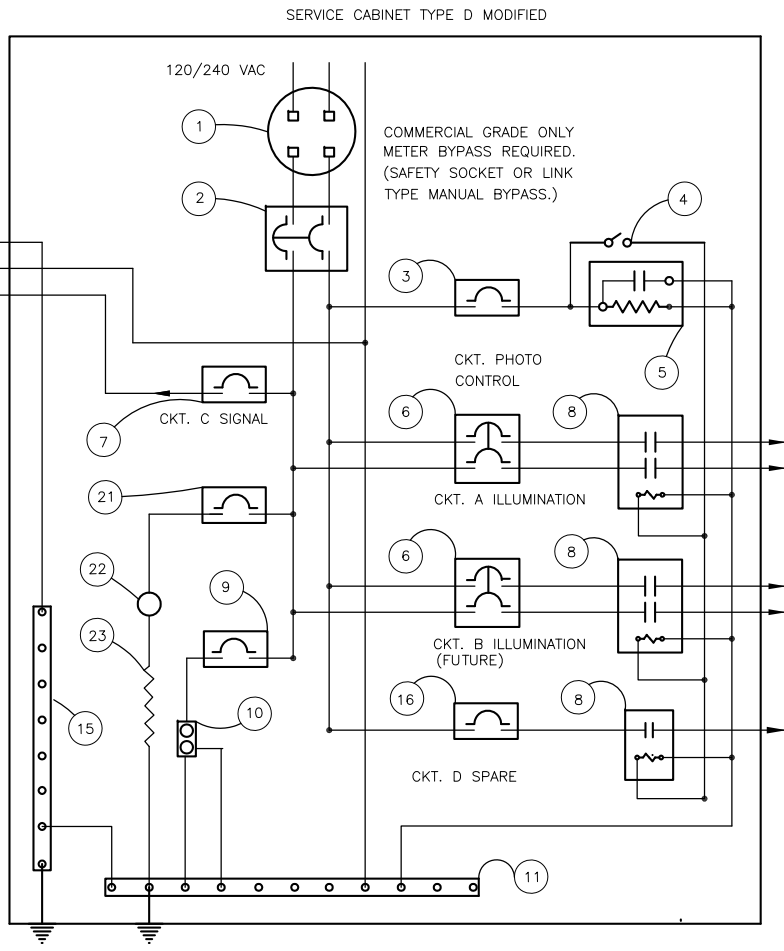
**PHOTO CONTROL**

N.T.C.

SERVICE CABINET TYPE D MODIFIED  
BREAKER SCHEDULE 120/240V

CIRCUIT	DESCRIPTION	BREAKER RATING	CONTACTOR RATING	VOLTAGE	LOAD (KVA)
	MAIN	100 A	N.A.	240	N.A.
A	ILLUMINATION	30 A	30	240	2.0
B	ILLUMINATION	30 A	30	240	FUTURE
C	SIGNAL*	30 A	N.A.	120	2.4*
D	SPARE	20 A	N.A.	120	FUTURE
E	GFCI	20 A	N.A.	120	1.8
F	PHOTOCELL	15 A	N.A.	120	0.1
G	STRIP HEATER	15 A	N.A.	120	0.1
BUSSWORK SHALL BE RATED AT 250 AMP MINIMUM				PEAK	6.4
				CONTINUOUS	2.8

\*SIGNAL CIRCUIT WILL NOT BE UTILIZED AS PART OF THIS PROJECT. INSTALL BREAKER FOR FUTURE USE.



**STAND ALONE SERVICE CABINET  
TYPE D MODIFIED WITH PAD**

SNOHOMISH COUNTY  
TRAFFIC ENGINEER  
APPROVED FOR CONSTRUCTION  
BY \_\_\_\_\_  
JIM BLOODGOOD, P.E.

REVISIONS	DATE	BY	DESIGNED
			M. KENDALL
			M. KENDALL
			E. SCHOTT
			A. FISHER

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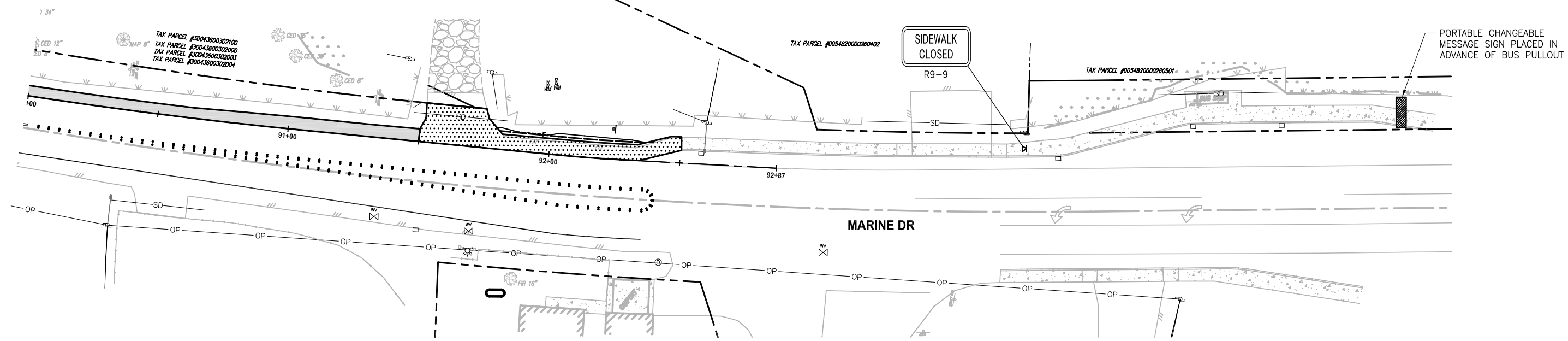
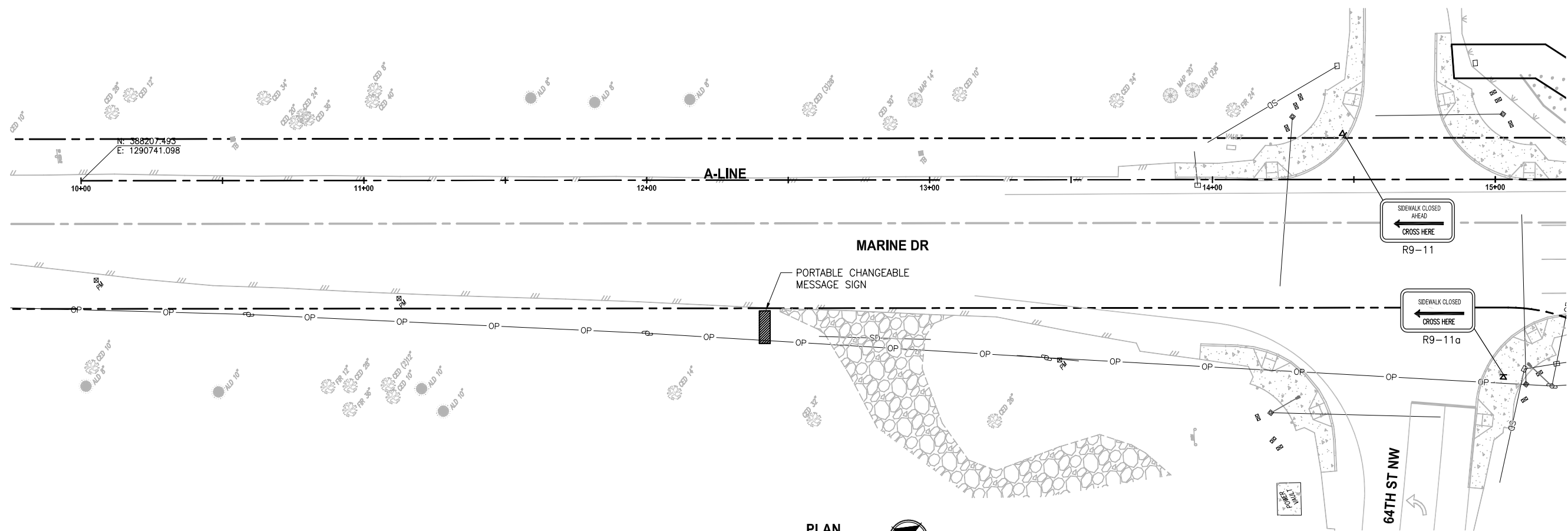
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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
THE TULALIP TRIBES**  
TULALIP, WASHINGTON

**ILLUMINATION SERVICE  
CABINET DETAILS**

**811**  
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SHEET NO.  
37 OF 40  
**IL9**

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SNOHOMISH COUNTY  
 TRAFFIC ENGINEER  
 APPROVED FOR CONSTRUCTION  
 BY: \_\_\_\_\_  
 JIM BLOODGOOD, P.E.

REVISIONS	DATE	BY	DESIGNED
			J. DVORAK
			M. MILLER
			J. DVORAK
			A. FISHER

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 FILE NAME: PS1598078P01T04-TC  
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5-19-16

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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS**  
**PHASE 1: 7TH DRIVE NW TO 64TH STREET NW**  
**THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

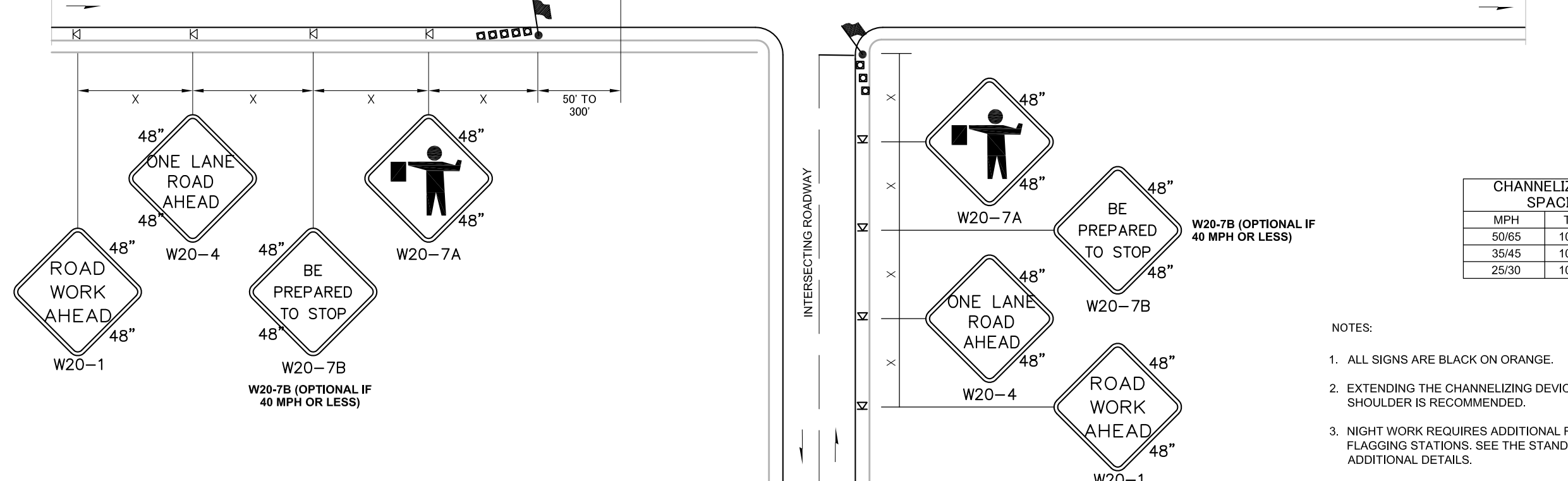
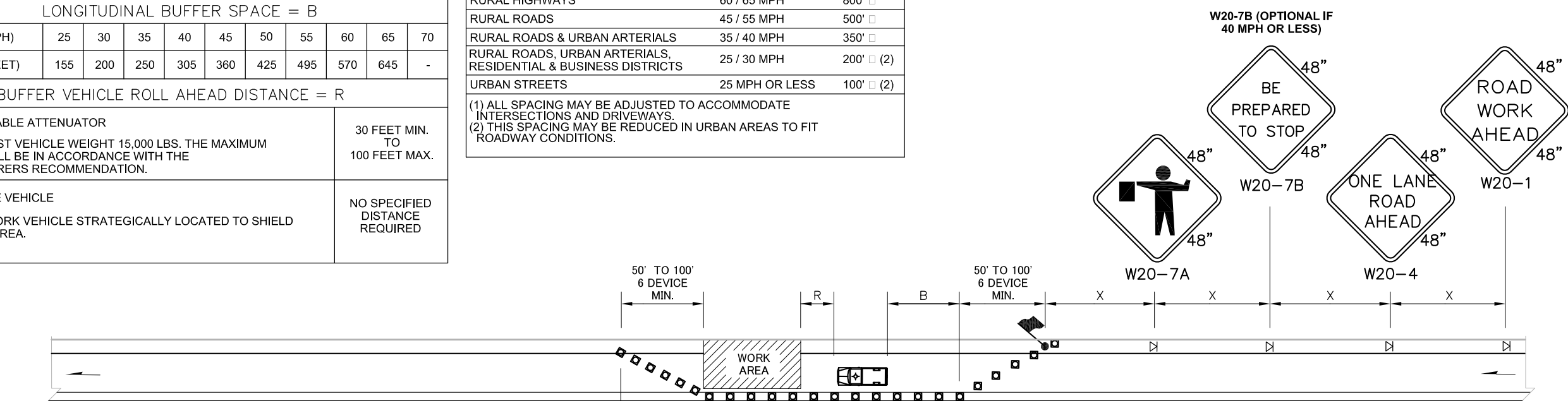
**TRAFFIC CONTROL PLANS**  
**GENERAL SIGNAGE**

SHEET NO.  
 38 OF 40  
**TC1**

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FEET)	155	200	250	305	360	425	495	570	645	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.								30 FEET MIN. TO 100 FEET MAX.		
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.								NO SPECIFIED DISTANCE REQUIRED		

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' □ (2)
URBAN STREETS	25 MPH OR LESS	100' □ (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.  
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50/65	10 TO 20	80
35/45	10 TO 20	60
25/30	10 TO 20	40

- NOTES:
1. ALL SIGNS ARE BLACK ON ORANGE.
  2. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
  3. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
  4. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.

**LEGEND**

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE

NOT TO SCALE

SNOHOMISH COUNTY  
TRAFFIC ENGINEER  
APPROVED FOR CONSTRUCTION  
BY: \_\_\_\_\_  
JIM BLOODGOOD, P.E.

LAYOUT: TC2 PATH: C:\PMX\Temp\Pub\9460\ PLOTTED BY: millenol DATE: Thursday, May 19, 2016 12:23:52 PM

REVISIONS	DATE	BY	DESIGNED
			J. DVORAK
			M. MILLER
			J. DVORAK
			A. FISHER

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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
THE TULALIP TRIBES**  
TULALIP, WASHINGTON

**TRAFFIC CONTROL PLANS  
ONE-LANE, TWO-WAY TRAFFIC  
WITH FLAGGERS**

**811**  
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39 OF 40  
**TC2**

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' □
RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □

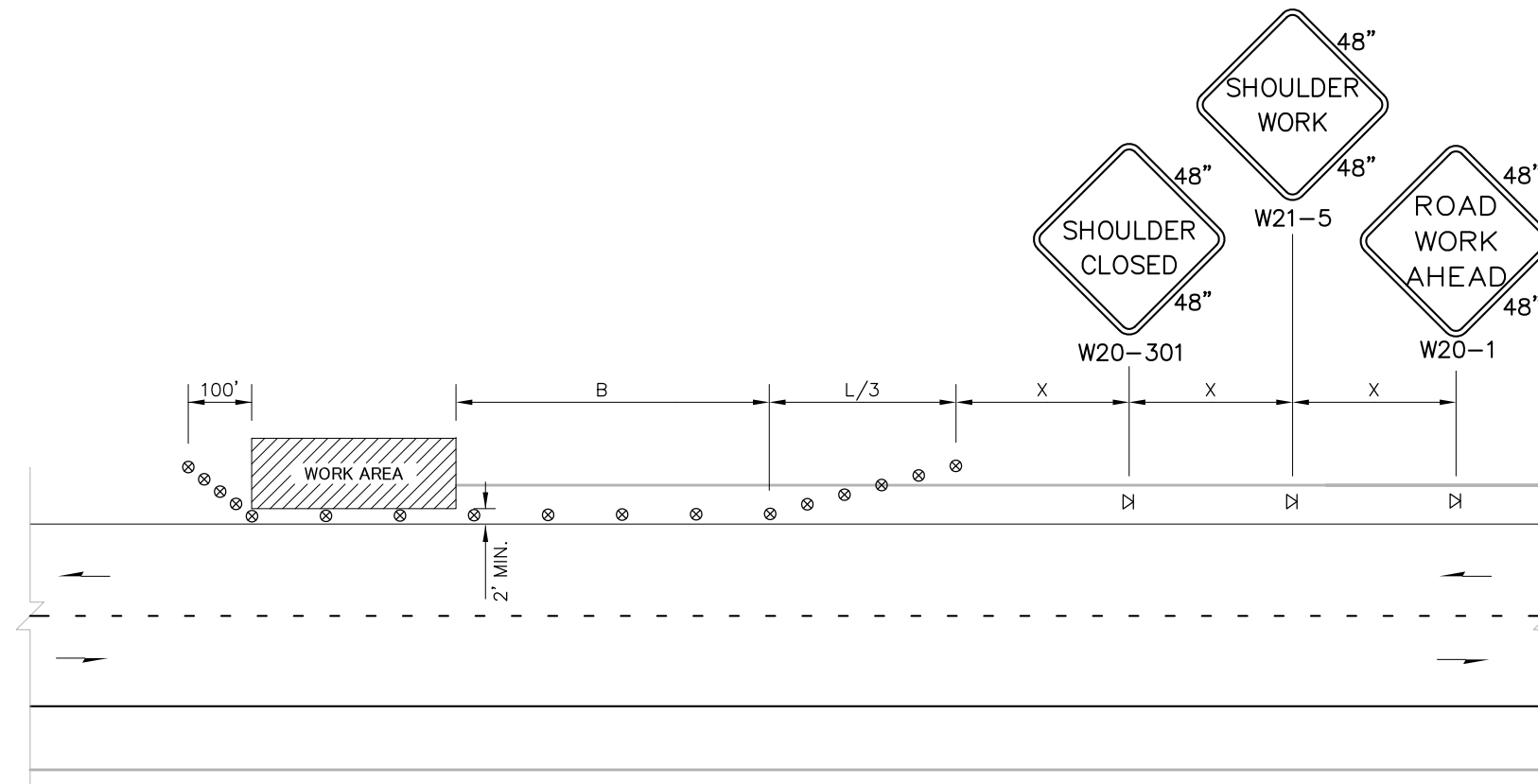
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	120	130	150	160	170	190
10'	-	-	-	-	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	-	-	-	-	360	425	495	570	645	730



NOTES:

1. NO ENCROACHMENT IN TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
2. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT) O.C.
3. ALL SIGNS ARE BLACK ON ORANGE.

NOT TO SCALE

LEGEND

- TEMPORARY SIGN LOCATION
- ⊗ TRAFFIC SAFETY DRUM

SNOHOMISH COUNTY  
TRAFFIC ENGINEER  
APPROVED FOR CONSTRUCTION  
BY \_\_\_\_\_  
JIM BLOODGOOD, P.E.



ONE INCH AT FULL SCALE.  
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FILE NAME  
PS1598078P01T04-TC

JOB No.  
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MAY 2016

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PROJECT NAME  
**MARINE DRIVE SHOULDER IMPROVEMENTS  
PHASE 1: 7TH DRIVE NW TO 64TH STREET NW  
THE TULALIP TRIBES**  
TULALIP, WASHINGTON

**TRAFFIC CONTROL PLANS  
SHOULDER CLOSURE - HIGH SPEED**

SHEET NO.  
40 OF 40

**TC3**

LAYOUT: TC3 PATH: C:\PMX\Temp\Pub\9460\ PLOTTED BY: millenol DATE: Thursday, May 19, 2016 12:23:56 PM

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			M. MILLER
			J. DVORAK
			A. FISHER