

CITY OF CARNATION

E. RUTHERFORD STREET IMPROVEMENTS

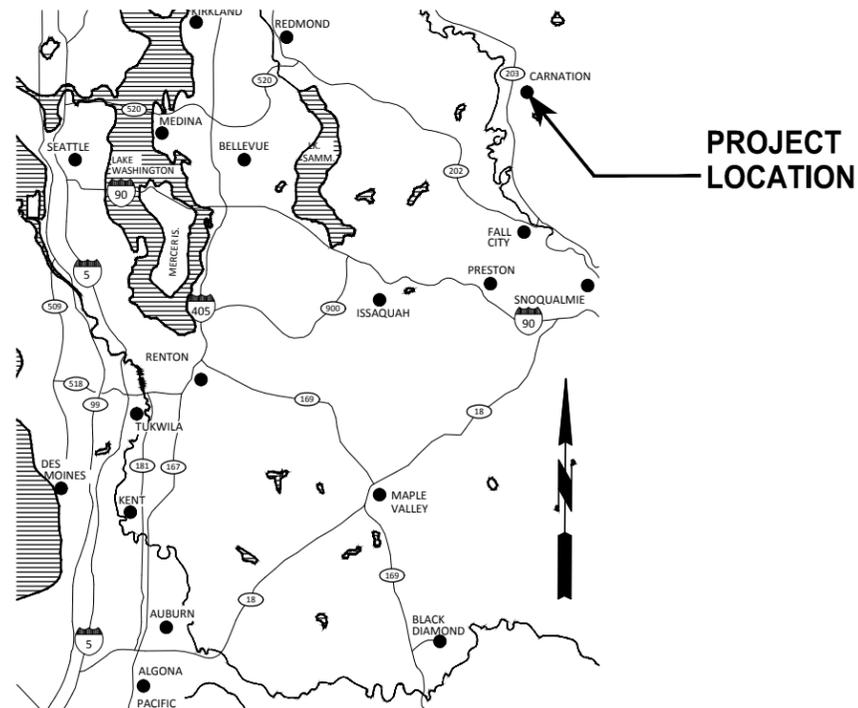
TOLT AVENUE TO SPILMAN AVENUE

TIB PROJECT NO. 6-P-801(007)-1



PROJECT MAP

NOT TO SCALE



VICINITY MAP

NOT TO SCALE

SHEET INDEX

SHEET NO.	DRAWING NO.	SHEET TITLE
1	CVR1	COVER SHEET
2	RS1	ROADWAY SECTION
3	DET1	DETAILS/SCHEDULE
4-6	SP1-SP3	SITE PREPARATION PLAN
7-9	PV1-PV3	PAVING PLAN
10-11	TC1-TC2	TRAFFIC CONTROL



N.A.V.D. 88

BENCHMARK

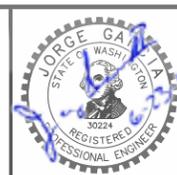
WGS SURVEY CONTROL POINT 1657
EAST QUARTER CONTROL OF SECTION 16, TOWNSHIP 25 NORTH, RANGE 7 EAST, W.M.
ELEVATION = 80.01 FEET

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UTILITIES UNDERGROUND LOCATION CENTER

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NO.	DATE	BY	APPR.	REVISIONS

APPROVED FOR CONSTRUCTION		Christopher Ed	JUNE 2016
DESIGNED BY	DATE	Christopher Ed	JUNE 2016
DRAWN BY	DATE	Steve Graff	JUNE 2016
CHECKED BY	DATE	Jorge Garcia	JUNE 2016
APPROVED BY	DATE		
FILENAME:	12202cvr.dwg		



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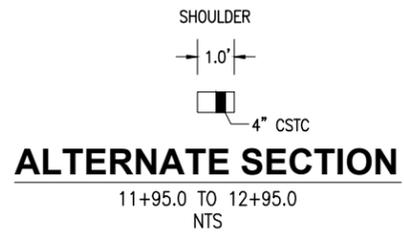
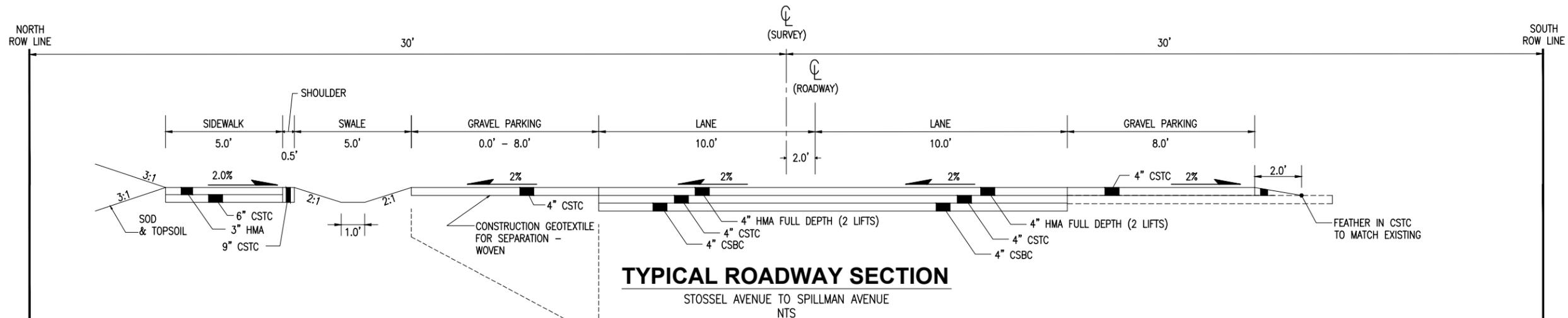
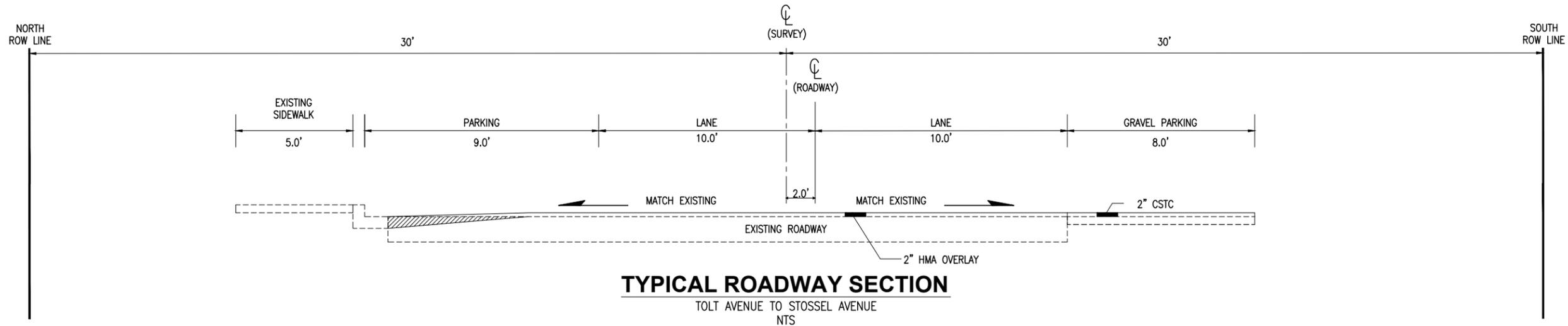
E. RUTHERFURD STREET
CITY OF CARNATION
E. RUTHERFURD STREET IMPROVEMENTS
CITY OF CARNATION, KING COUNTY

COVER SHEET

DRAWING NUMBER

CVR1

SHT. 1 OF 11



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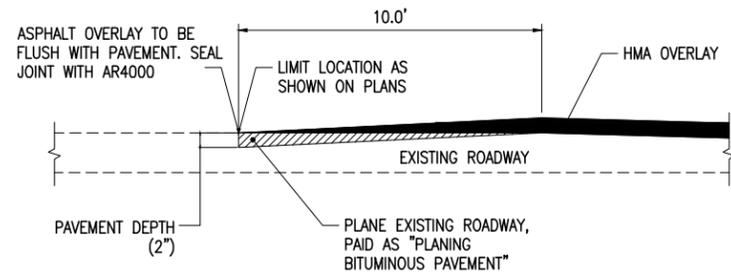
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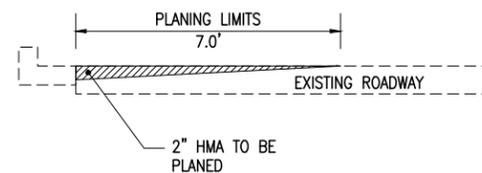
E. RUTHERFURD STREET
CITY OF CARNATION
E. RUTHERFURD STREET IMPROVEMENTS
CITY OF CARNATION, KING COUNTY
ROADWAY SECTION

DRAWING NUMBER
RS1
SHT. 2 OF 11



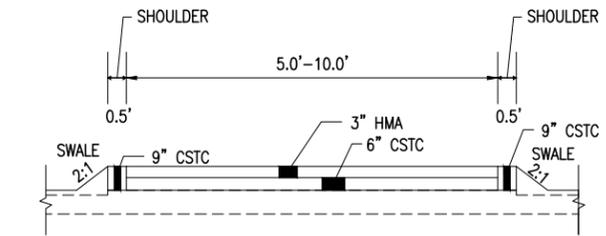
TYPICAL BUTT JOINT DETAIL

NTS



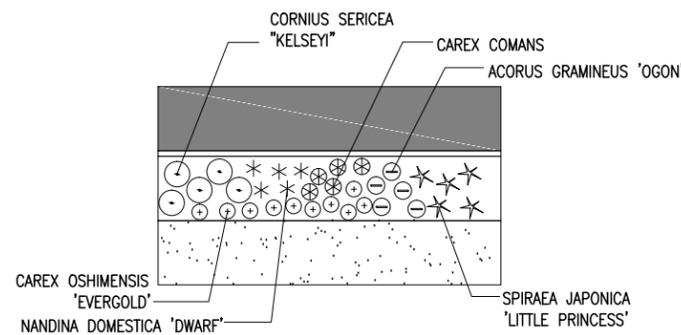
TYPICAL PLANING DETAIL

NTS



TYPICAL DRIVEWAY/PATHWAY DETAIL

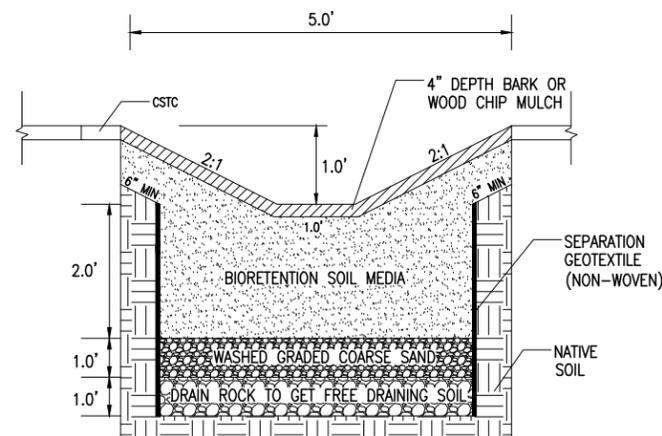
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TYPICAL SWALE PLANTING DETAIL

NTS

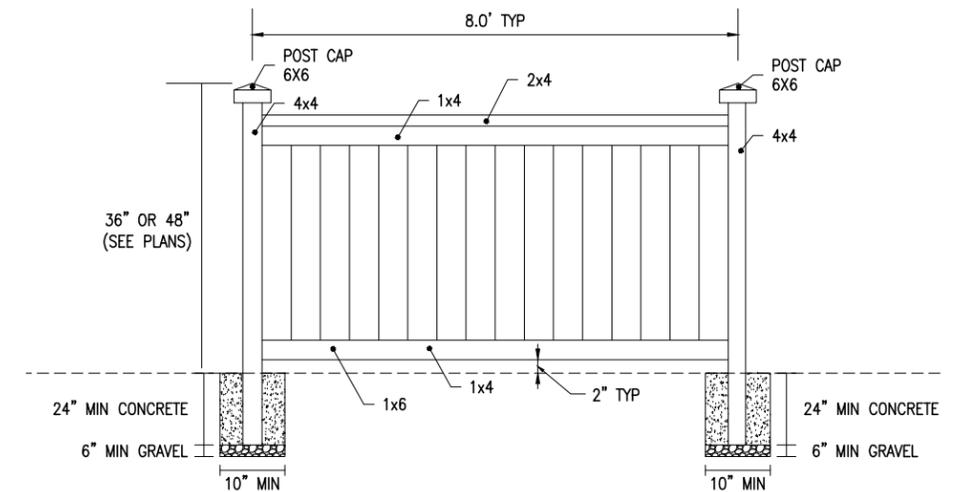
NOTE:
SEE PLANTING SCHEDULE. PLANTS TO BE PLACED IN RANDOM GROUPS OF 5, 10, AND 15 LIKE PLANTS PER GROUP. OFFSET PLANTS 6" MIN FROM ADJACENT GRAVEL STRIP, PAVEMENT, DRIVEWAYS, AND PATHWAY. UNLESS OTHERWISE NOTED IN THE PLANTING SCHEDULE.



SWALE CROSS-SECTION

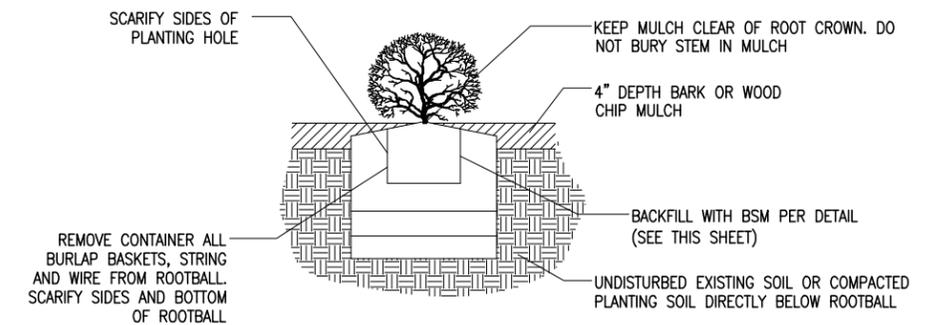
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- NOTE:
1. BIORETENTION SOIL MIX PER 2012 DOE STORMWATER MGMT MANUAL VOL. V BMP T7.30 "DEFAULT BIORETENTION SOIL MEDIA (BSM)."
 2. WASHED GRADED COARSE SAND PER ASTM C-33.
 3. SEPARATION GEOTEXTILE (NON-WOVEN) PER WSDOT STD SPEC SECTION 9-33.2(1). TABLE 3. ON BOTH SIDES AND BOTH ENDS OF TRENCH. NO GEOTEXTILE ON TOP OR BOTTOM OF TRENCH
 4. GRAVEL BACKFILL FOR DRYWELLS PER WSDOT STD SPECS SECTION 9-03.12(5).
 5. DEPTH OF SWALE 1FT OR AS APPROVED BY CITY.
 6. NO PERFORATED PIPE UNDERDRAINS AND NO DISCHARGE PIPES ALLOWED INTO TRENCH.



TYPICAL CEDAR FENCE DETAIL

NTS



SHRUB/GROUNDCOVER PLANTING

NTS

PLANTING SCHEDULE					
RAIN GARDEN PLANT MIX					
QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
	CORNIUS SERICEA 'KELSEY'	DWARF RED TWIG DOGWOOD	1 GAL CONT	INSTALL PLANTS IN EQUAL PROPORTIONS OF 20% EACH AT A SPACING OF 12" O.C. IN RANDOM GROUPS OF 5, 10, AND 15 LIKE PLANTS PER GROUP. OFFSET PLANTS 6" MIN FROM ADJACENT SIDEWALK, CURBS, AND WALLS.	FULL AND WELL ROOTED
	CAREX COMANS	NEW ZEALAND HAIR SEDGE	1 GAL CONT		
	ACORUS GRAMINEUS 'OGON'	GOLDEN VARIEGATED SWEET FLAG	1 GAL CONT		
	CAREX OSHIMENSIS 'EVERGOLD'	VARIEGATED JAPANESE SEDGE	1 GAL CONT		
	NANDINA DOMESTICA 'DWARF'	DWARF NANDINA	1 GAL CONT		
	SPIRAEA JAPONICA 'LITTLE PRINCESS'	LITTLE PRINCESS SPIREA	1 GAL CONT		
SEEDING AND SOD					
	SEEDING, FERTILIZER, AND MULCHING				SEE SPECIFICATIONS
SOIL AND MULCH					
	BARK OR WOOD CHIP MULCH*	4" DEPTH IN SHRUB AND GROUNDCOVER PLANTING AREAS, AND RAIN GARDEN			SEE SPECIFICATIONS

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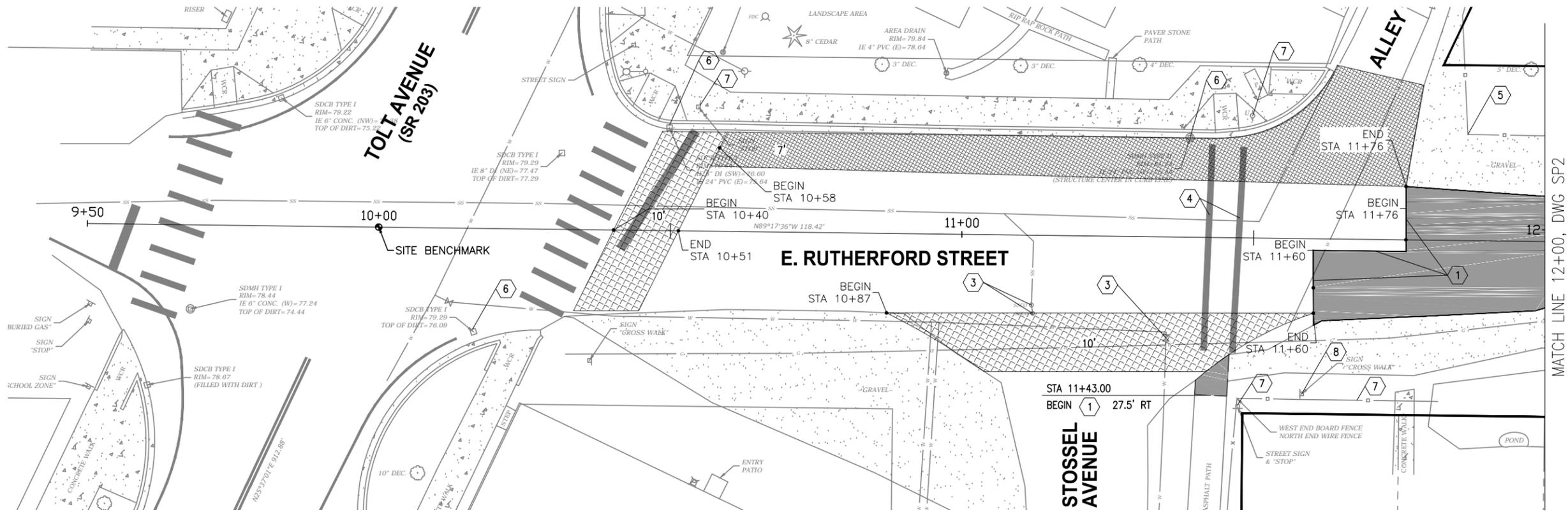
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E. RUTHERFURD STREET
CITY OF CARNATION
E. RUTHERFURD STREET IMPROVEMENTS
CITY OF CARNATION, KING COUNTY
DETAILS/SCHEDULE

DRAWING NUMBER	DET1
SHT	3 of 11

SEC. 16, T.25N., R.7E., W.M.



CONSTRUCTION NOTES

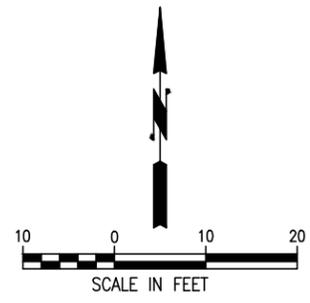
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- 2 REMOVE TREE
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- 4 REMOVE PAVEMENT MARKINGS
- 5 REMOVE EXISTING FENCE
- 6 INSTALL INLET PROTECTION. PROTECT CATCH BASIN IN PLACE
- 7 PROTECT IN PLACE
- 8 RELOCATE SIGN, SEE PV SHEETS

GENERAL NOTES

1. EXISTING UTILITIES TO BE FIELD VERIFIED AND TO REMAIN IN PLACE. CONTRACTORS SHALL BE RESPONSIBLE TO MAINTAIN AND PROTECT UTILITIES. ANY DAMAGES SHALL BE CONTRACTOR'S RESPONSIBILITY.
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6. CONTRACTOR RESPONSIBLE FOR SAVING ORIGINAL GATES FROM FENCES THAT WILL BE REMOVED

LEGEND

- RIGHT OF WAY LINE
- SAWCUT LINE
- REMOVE EXISTING PAVEMENT FULL DEPTH
- PLANING SECTION
- BUTT JOINT



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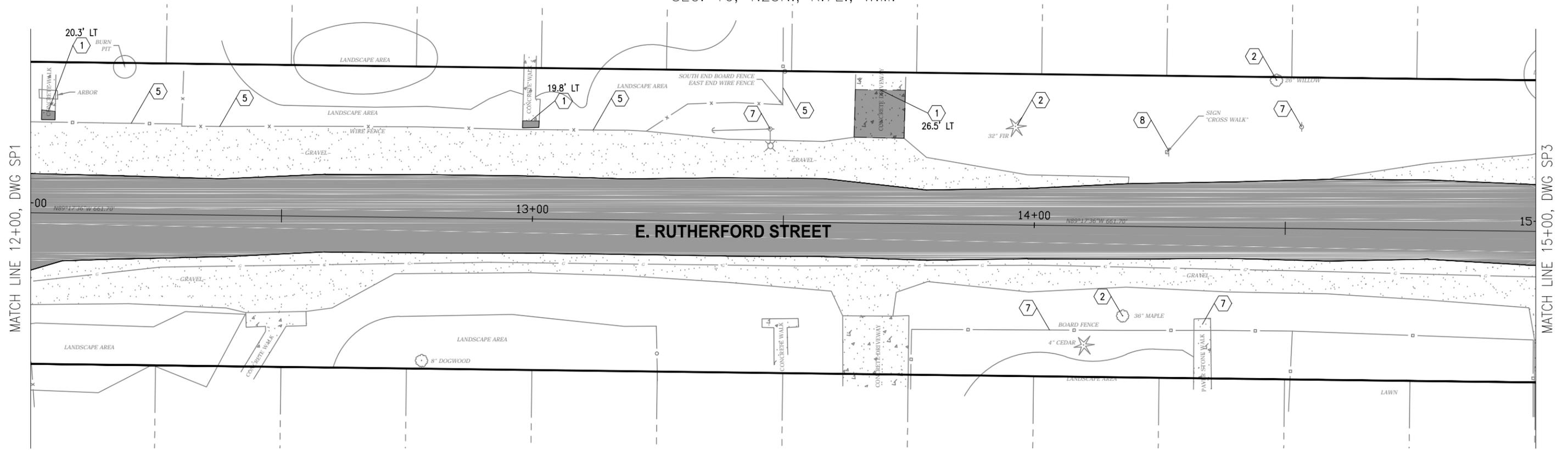
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E. RUTHERFURD STREET
 CITY OF CARNATION
 E. RUTHERFURD STREET IMPROVEMENTS
 CITY OF CARNATION, KING COUNTY
 SITE PREPARATION

DRAWING NUMBER
SP1
 SHT. 4 OF 11

SEC. 16, T.25N., R.7E., W.M.



MATCH LINE 12+00, DWG SP1

MATCH LINE 15+00, DWG SP3

CONSTRUCTION NOTES

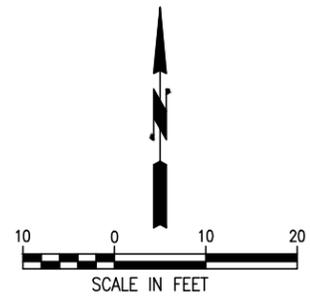
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LEGEND

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- SAWCUT LINE
- REMOVE EXISTING PAVEMENT FULL DEPTH
- PLANING SECTION
- BUTT JOINT

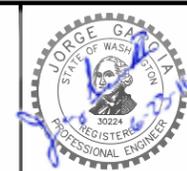


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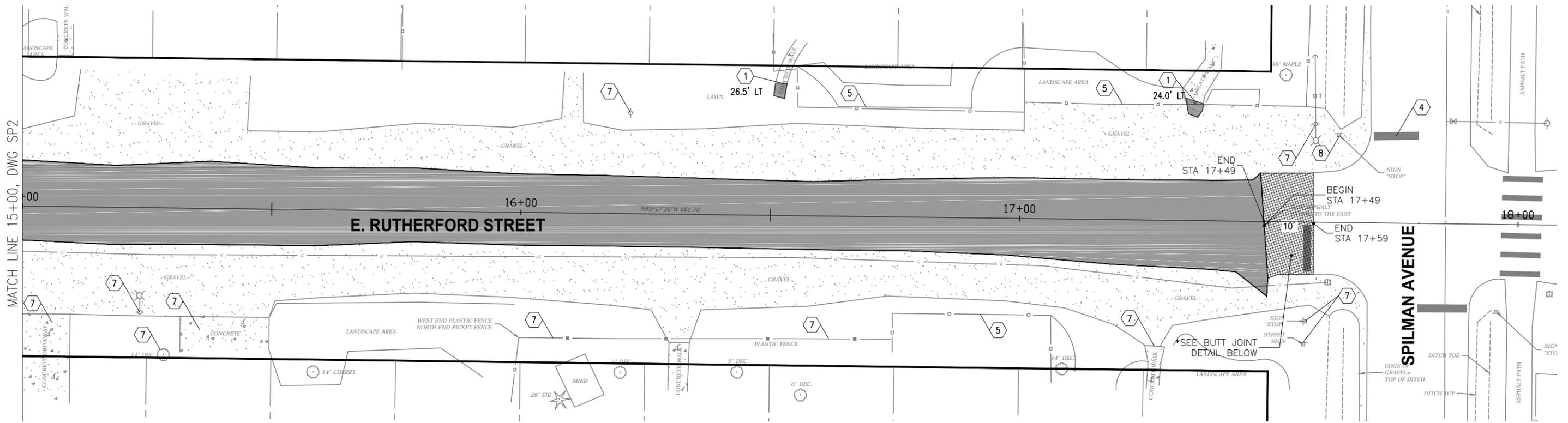
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E. RUTHERFURD STREET
 CITY OF CARNATION
 E. RUTHERFURD STREET IMPROVEMENTS
 CITY OF CARNATION, KING COUNTY
 SITE PREPARATION

DRAWING NUMBER
SP2
 SHT 5 OF 11



CONSTRUCTION NOTES

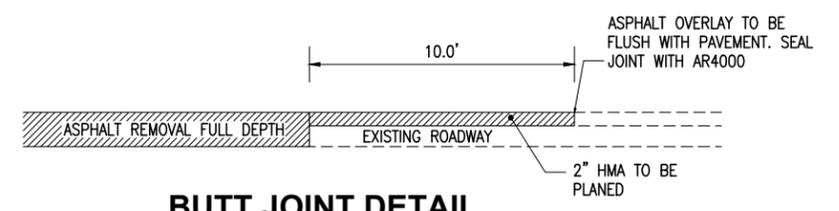
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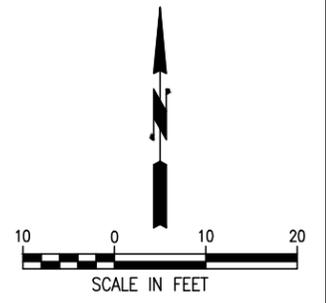
LEGEND

- RIGHT OF WAY LINE
- SAWCUT LINE
- REMOVE EXISTING PAVEMENT FULL DEPTH
- PLANING SECTION
- BUTT JOINT



BUTT JOINT DETAIL
NTS

*BUTT JOINT DETAIL FOR ABOVE



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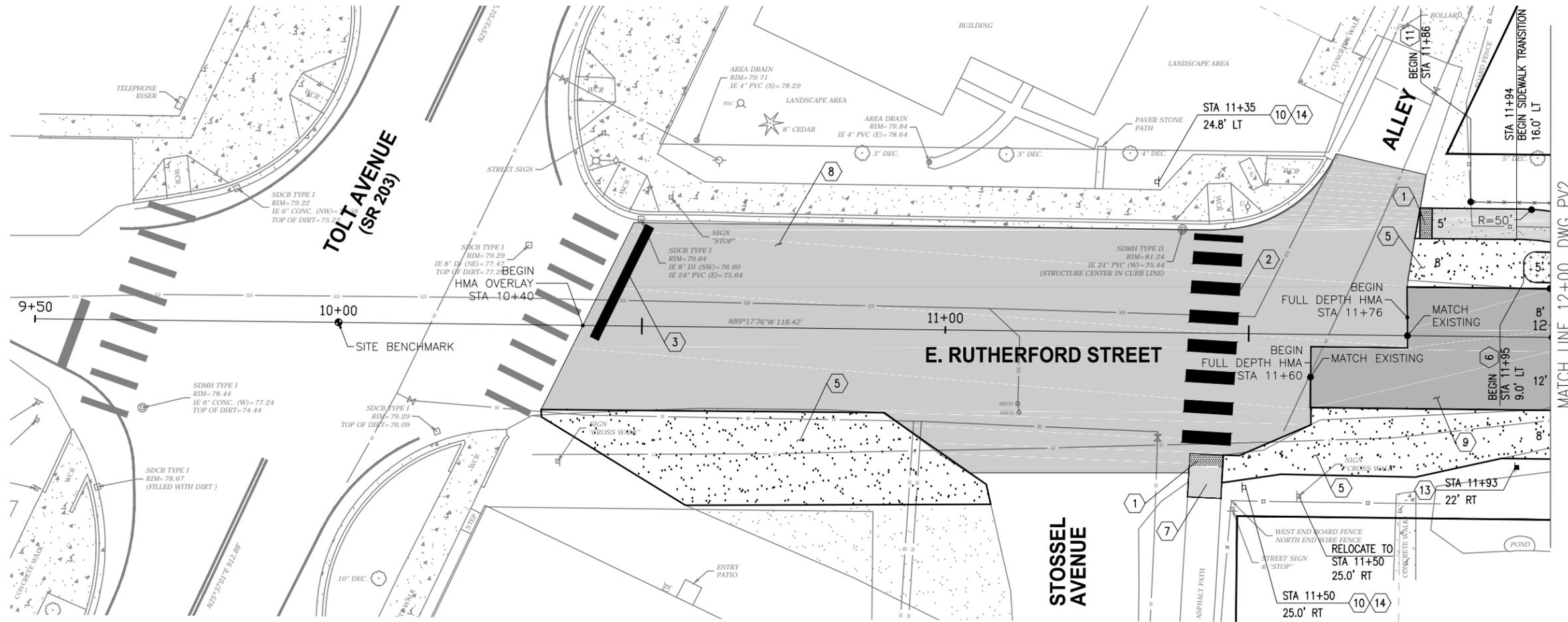


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E. RUTHERFORD STREET
CITY OF CARNATION
E. RUTHERFORD STREET IMPROVEMENTS
CITY OF CARNATION, KING COUNTY
SITE PREPARATION

DRAWING NUMBER
SP3
SHT 6 OF 11



GENERAL NOTES

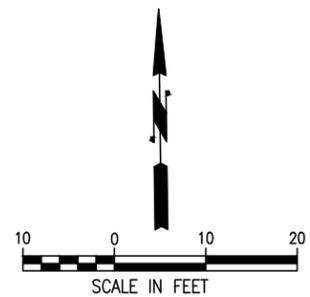
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- NEW AND RELOCATED SIGNS WILL HAVE NEW TIMBER SIGN POST WITH POST SIZE 4X4. SIGN POST SHALL BE INSTALLED PER WSDOT STD PLAN G-22.10-03.

CONSTRUCTION NOTES

- INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD. F-45.10-01.
- INSTALL CROSSWALKS PER WSDOT STD PLAN M-15.10-01
- INSTALL STOP LINES PER WSDOT STD PLAN M-24.60-04
- CONSTRUCT 36" CEDAR FENCE PER DETAIL ON DET1
- CONSTRUCT GRAVEL PARKING
- CONSTRUCT SWALE PER DETAIL ON DET1
- CONSTRUCT HMA SIDEWALK
- CONSTRUCT HMA OVERLAY
- CONSTRUCT HMA FULL DEPTH
- INSTALL RELOCATED SIGN PER WSDOT STD PLAN G-20.10-02
- CONSTRUCT 48" CEDAR FENCE PER DETAIL ON DET1
- INSTALL GATE
- INSTALL 24"x30" R2-1 SIGN (SPEED LIMIT 25) PER WSDOT STD PLAN G-20.10-02
- INSTALL 24"x12" W16-7PL (DIAGONAL ARROW) UNDER EXISTING SIGN PER WSDOT STD PLAN G-20.10-02

LEGEND

- HMA - SIDEWALK
- HMA - OVERLAY
- HMA - FULL DEPTH
- GRAVEL PARKING
- SWALE
- CEDAR FENCE
- RIGHT-OF-WAY

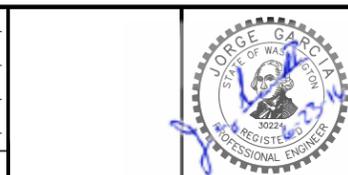


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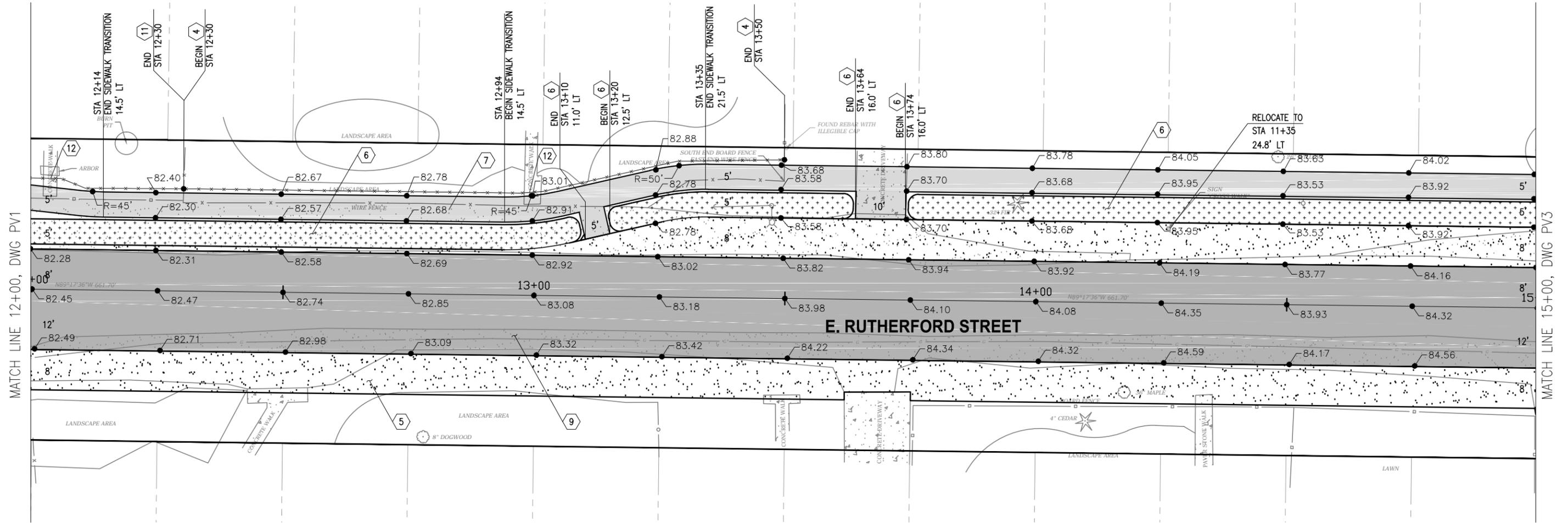
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E. RUTHERFURD STREET
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 CITY OF CARNATION, KING COUNTY
 PAVING PLAN

DRAWING NUMBER
PV1
 SHT 7 OF 11



GENERAL NOTES

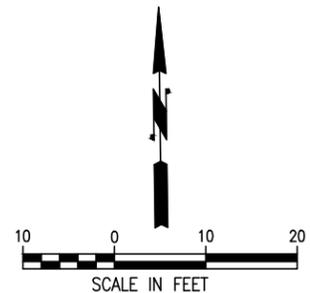
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LEGEND

- HMA - SIDEWALK
- HMA - OVERLAY
- HMA - FULL DEPTH
- GRAVEL PARKING
- SWALE
- CEDAR FENCE
- RIGHT-OF-WAY

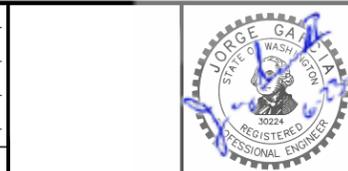


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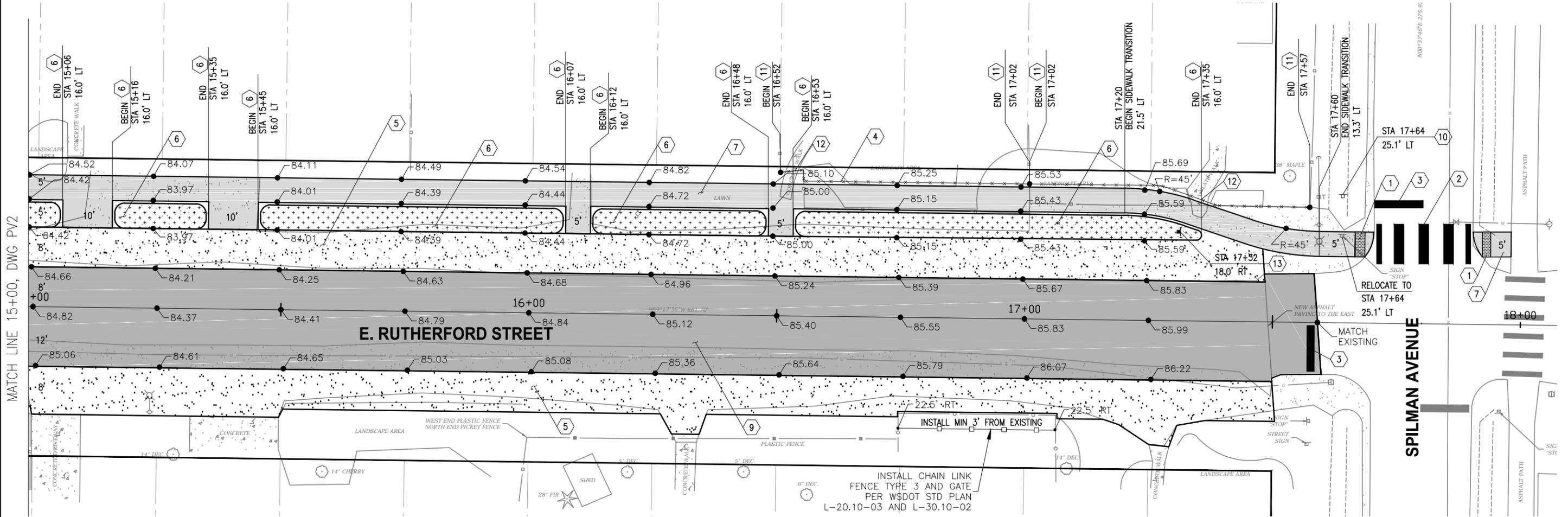
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PROJECT ENGINEER	DATE		
FILENAME:	12202pv.dwg		



E. RUTHERFURD STREET
 CITY OF CARNATION
 E. RUTHERFURD STREET IMPROVEMENTS
 CITY OF CARNATION, KING COUNTY
 PAVING PLAN

DRAWING NUMBER
PV2
 SHT 8 OF 11



GENERAL NOTES

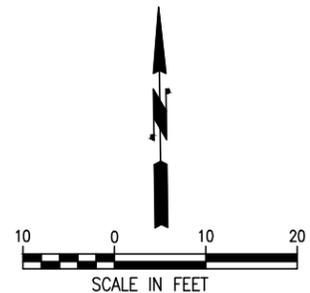
- EXISTING UTILITIES TO BE FIELD VERIFIED AND TO REMAIN IN PLACE UNLESS INDICATED ON THE PLANS. CONTRACTORS SHALL BE RESPONSIBLE TO MAINTAIN AND PROTECT UTILITIES. ANY DAMAGES SHALL BE CONTRACTOR'S RESPONSIBILITY.
- ADJUST ALL EXISTING UTILITY FRAMES, COVERS, AND VALVE COVERS WITHIN AREAS OF PAVING, SIDEWALK, AND OR CURB RAMP REPLACEMENT TO FINISHED GRADE.
- DIMENSIONS ON THE PLANS ARE APPROXIMATE. FIELD VERIFICATION IS REQUIRED.
- SEE DET1 FOR HMA PLANING AND OVERLAY DETAIL.
- EXISTING FENCE THAT WILL BE REMOVED WILL BE REPLACED WITH NEW CEDAR FENCE AND GATE, SEE DET1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING FENCE POST FOUNDATION.
- NEW AND RELOCATED SIGNS WILL HAVE NEW TIMBER SIGN POST WITH POST SIZE 4X4. SIGN POST SHALL BE INSTALLED PER WSDOT STD PLAN G-22.10-03.

CONSTRUCTION NOTES

- INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD. F-45.10-01.
- INSTALL CROSSWALKS PER WSDOT STD PLAN M-15.10-01
- INSTALL STOP LINES PER WSDOT STD PLAN M-24.60-04
- CONSTRUCT 36" CEDAR FENCE PER DETAIL ON DET1
- CONSTRUCT GRAVEL PARKING
- CONSTRUCT SWALE PER DETAIL ON DET1
- CONSTRUCT HMA SIDEWALK
- CONSTRUCT HMA OVERLAY
- CONSTRUCT HMA FULL DEPTH
- INSTALL RELOCATED SIGN PER WSDOT STD PLAN G-20.10-02
- CONSTRUCT 48" CEDAR FENCE PER DETAIL ON DET1
- INSTALL GATE
- INSTALL 24"x30" R2-1 SIGN (SPEED LIMIT 25) PER WSDOT STD PLAN G-20.10-02
- INSTALL 24"x12" W16-7PL (DIAGONAL ARROW) UNDER EXISTING SIGN PER WSDOT STD PLAN G-20.10-02

LEGEND

- HMA - SIDEWALK
- HMA - OVERLAY
- HMA - FULL DEPTH
- GRAVEL PARKING
- SWALE
- CEDAR FENCE
- RIGHT-OF-WAY
- CHAIN LINK FENCE

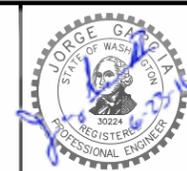


CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
 UTILITIES UNDERGROUND LOCATION CENTER

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NO.	DATE	BY	APPR.	REVISIONS

APPROVED FOR CONSTRUCTION		Christopher Ed	JUNE 2016
DESIGNED BY	DATE	Christopher Ed	JUNE 2016
ENGINEERING MANAGER	DATE	Steve Graff	JUNE 2016
DRAWN BY	DATE	Jorge Garcia	JUNE 2016
CHECKED BY	DATE		
PROJECT MANAGER	DATE		
APPROVED BY	DATE		
PROJECT ENGINEER	DATE		
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E. RUTHERFORD STREET
 CITY OF CARNATION
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 CITY OF CARNATION, KING COUNTY
 PAVING PLAN

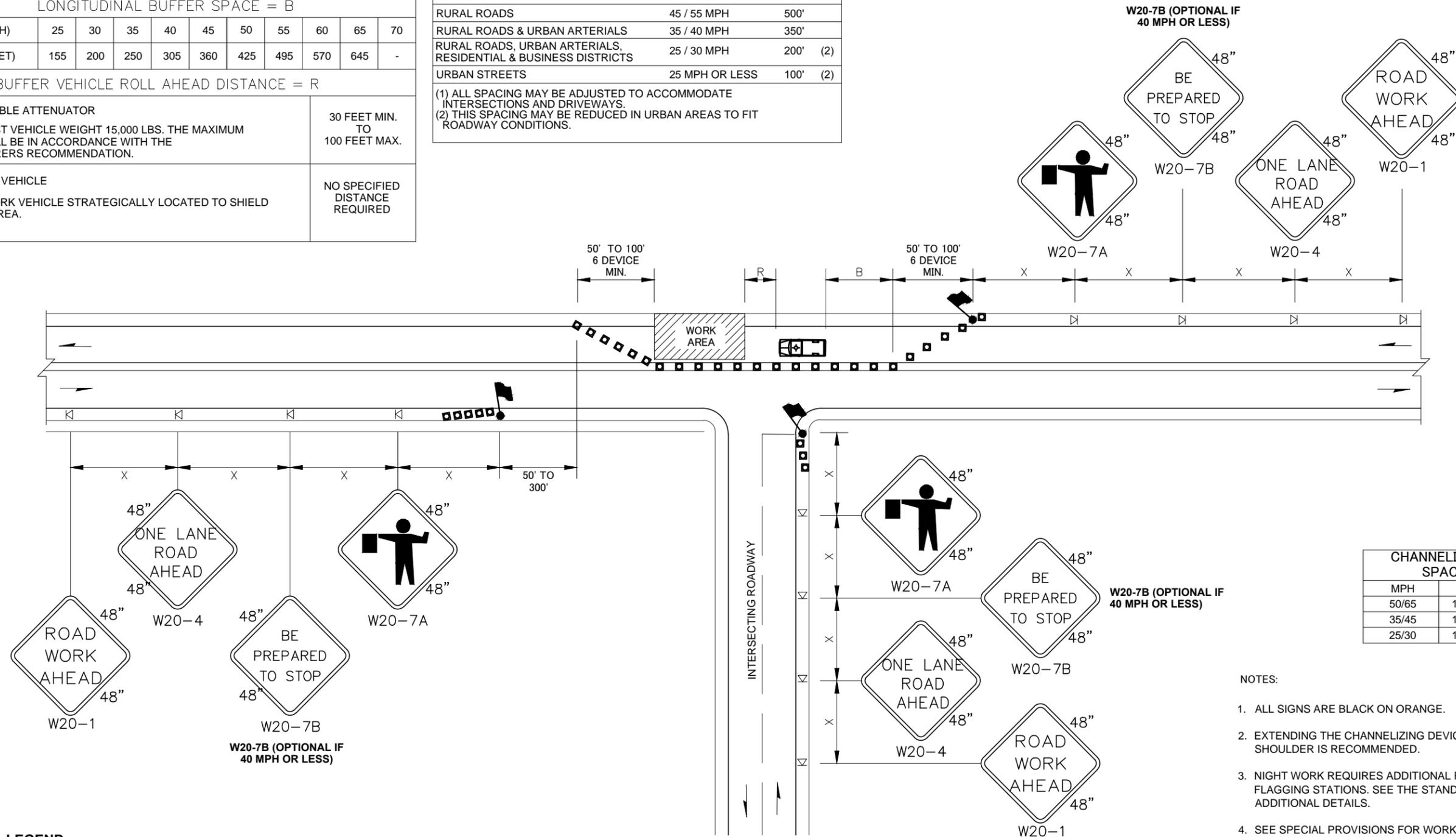
DRAWING NUMBER
PV3
 SHT 9 OF 11

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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								30 FEET MIN. TO 100 FEET MAX.		
MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										
PROTECTIVE VEHICLE								NO SPECIFIED DISTANCE REQUIRED		
MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.										

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

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

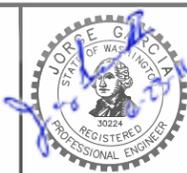
ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS

NOT TO SCALE

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1-800-424-5555
UTILITIES UNDERGROUND LOCATION CENTER

NO.	DATE	BY	APPR.	REVISIONS

APPROVED FOR CONSTRUCTION		Christopher Ed	2016
DESIGNED BY	DATE	Christopher Ed	2016
DRAWN BY	DATE	Steve Graff	2016
CHECKED BY	DATE	Jorge Garcia	2016
APPROVED BY	DATE		
PROJECT ENGINEER	DATE		
FILENAME:	12202TC.dwg		



LOCHNER



E. RUTHERFURD STREET
CITY OF CARNATION
E. RUTHERFURD STREET IMPROVEMENTS
CITY OF CARNATION, KING COUNTY

DRAWING NUMBER

TC1

TRAFFIC CONTROL

SHT 10 OF 11

SIGN SPACING = X (1)		
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.

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	-	-	-	-	-	-
10'	40	60	90	90	-	-	-	-	-	-

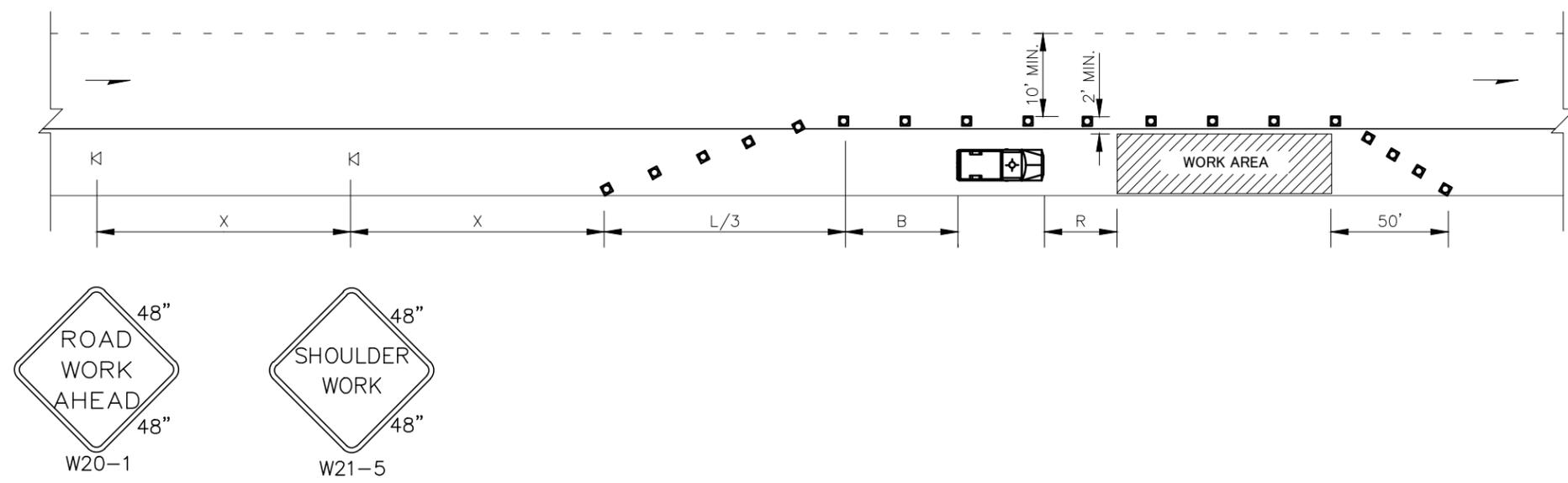
USE A 3 DEVICES TAPER FOR SHOULDERS LESS THEN 8'

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305						

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



- NOTES:
1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
 2. ALL SIGNS ARE BLACK ON ORANGE.

SHOULDER CLOSURE – LOW SPEED (40 MPH OR LESS)

NOT TO SCALE

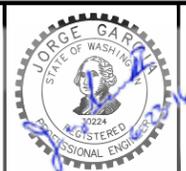
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- LEGEND**
- ⊞ TEMPORARY SIGN LOCATION
 - CHANNELIZING DEVICES
 - 🚚 PROTECTIVE VEHICLE

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CITY OF CARNATION
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CITY OF CARNATION, KING COUNTY
TRAFFIC CONTROL

DRAWING NUMBER
TC2
SHT 11 OF 11