



# CITY OF KIRKLAND

## 132ND AVE NE & SLATER AVE CROSSING

## NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS

### PROJECT NO. 06-24-PW

### CONTRACT NO. HLP-2059(002)

CIP NO.

NMC1350000

NMC1360000

DECEMBER 2024

#### CITY OFFICIALS

KELLI CURTIS	MAYOR
JAY ARNOLD	DEPUTY MAYOR
NEAL BLACK	COUNCIL MEMBER
PENNY SWEET	COUNCIL MEMBER
AMY FALCONE	COUNCIL MEMBER
JON PASCAL	COUNCIL MEMBER
JOHN TYMCZYSZYN	COUNCIL MEMBER
KURT TRIPLETT	CITY MANAGER
TRUC DEVER	PUBLIC WORKS DIRECTOR
GEORGE MINASSIAN, PE	CAPITAL PROJECTS MANAGER

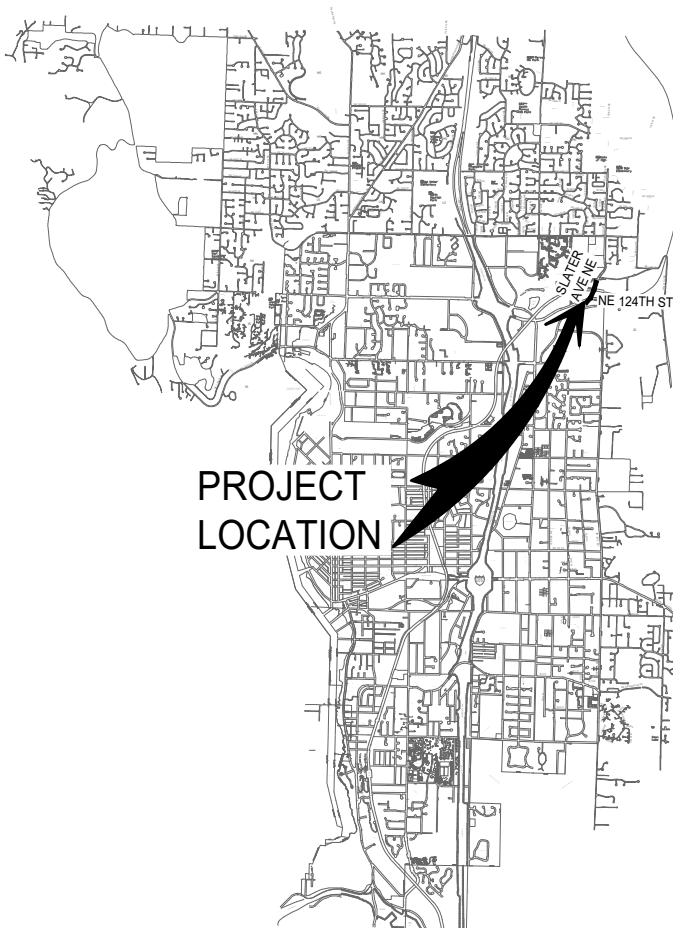
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GEORGE MATOTE	NORTHSHORE UTILITY DISTRICT (NUD)	425-471-9450
STEVEN FOSS	KING COUNTY SEWER DISTRICT	206-255-6047
DAVID FREEMAN SR.	KING COUNTY METRO	206-472-2553
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DISPATCH	COK FIRE	425-587-3722
	COK SPILL RESPONSE HOTLINE	425-587-3900
	EMERGENCY	911
	ONE CALL LOCATES	1-800-424-5555

#### VICINITY MAP



NOT TO SCALE



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SHEET:	1 OF 33
SCALE:	NTS
FILENAME:	CV01

# GENERAL PROJECT LEGEND

# ABBREVIATIONS

## EXISTING ITEMS

- MONUMENT IN CASE
- △ PK NAIL
- CATCH BASIN
- ⊕ STORM DRAIN MANHOLE
- ⊙ STORM DRAIN CLEAN-OUT
- SEWER MANHOLE
- ⊖ POWER POLE
- ⊖ POWER POLE W/UNDERGROUND CONNECT
- ⊖ POWER POLE WITH LUMINAIRE
- ⊖ POWER POLE WITH LUMINAIRE AND UNDERGROUND CONNECT
- ⊖ POWER METER
- ⊖ GUY POLE
- GUY ANCHOR
- ⊖ TRAFFIC SIGNAL
- ◇ PEDESTRIAN SIGNAL
- ⊖ JUNCTION BOX
- ⊖ TRAFFIC SIGNAL CONTROLLER CABINET
- ⊖ ELECTRICAL SERVICE CABINET
- ⊖ TRAFFIC ATTENUATOR LOOP
- ⊖ STREET LIGHT (LUMINAIRE)
- ⊖ RAILROAD CROSSING ARM
- ⊖ TELEPHONE MANHOLE
- ⊖ TELEPHONE RISER
- ⊖ TV RISER
- ⊖ GAS VALVE
- ⊖ WATER VALVE
- ⊖ WATER METER
- ⊖ FIRE HYDRANT
- ⊖ IRRIGATION CONTROL VALVE
- ⊖ UTILITY MANHOLE (GENERIC/UNKNOWN)
- ⊖ UTILITY VAULT LID (GENERIC/UNKNOWN)
- ⊖ GUARD POST
- ⊖ SIGN
- SHRUB
- ⊖ DECIDUOUS TREE, DIAMETER (# OF TRUNKS)

- ✱ CONIFEROUS TREE, DIAMETER (# OF TRUNKS)
- P PAINTED POWER
- T PAINTED TELEPHONE
- FO PAINTED FIBER OPTIC
- TV PAINTED TV
- W PAINTED WATER
- G PAINTED GAS
- OH OVERHEAD UTILITY LINE (GENERIC)
- SD STORM
- S SEWER
- x-x-x FENCE
- HEDGE (HEIGHT NOTED)
- PAINTED STRIPE
- PAINTED SKIP STRIPE
- EDGE OF PAVEMENT
- FLOWLINE
- CONTOUR
- CONCRETE
- GRAVEL
- ROCKERY
- AC ASPHALT/CONCRETE
- CHLK CHAINLINK
- SIGNAL HEAD
- CONDUIT

## PROPOSED ITEMS

- XXXXX REMOVE CURB & GUTTER OR EXTRUDED CURB
- FULL DEPTH SAWCUT
- /// BUTT JOINT
- SILT FENCE
- CLEARING LIMITS
- EXIST RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- APPROX FILL DAYLIGHT LINE
- === CURB AND GUTTER
- INLET PROTECTION
- SURVEYED WETLAND
- STANDARD WETLAND BUFFER
- WOOD SPLIT RAIL FENCE
- x CHAIN LINK FENCE
- REMOVE CEMENT CONCRETE
- REMOVE ASPHALT CONCRETE PAVEMENT
- 2" PAVEMENT GRINDING
- CEMENT CONCRETE CURB RAMP
- CEMENT CONCRETE SIDEWALK
- NEW TRAIL ASPHALT PAVEMENT
- NEW ROADWAY ASPHALT PAVEMENT
- NEW OVERLAY
- GRAVEL
- DETECTABLE WARNING SURFACE
- DECORATIVE BRICK STAMPED CEMENT CONCRETE
- PRECAST TACTILE PAVER
- AGGREGATE

- RXOX REMOVE SIGN
- XOX NEW SIGN
- NEW SIGN
- NEW SIGN ON EXISTING POST
- TRAFFIC SIGNAL CONTROLLER CABINET
- ELECTRICAL SERVICE CABINET
- TYPE 3 SIGNAL STANDARD
- PED PUSHBUTTON
- PED PUSHBUTTON POST
- PS POLE
- SIGNAL HEAD
- BI-DIRECTIONAL SIGNAL HEAD
- PED SIGNAL HEAD
- MAST ARM SIGN
- EMERGENCY PRE-EMPTION DETECTOR
- CCTV CAMERA
- CONDUIT
- BICYCLE LEANING RAIL
- TYPE 2 JUNCTION BOX
- TYPE 8 JUNCTION BOX
- SMALL CABLE VAULT
- POLE NOTE
- CONSTRUCTION NOTE

- |                                     |   |
|-------------------------------------|---|
| AC ASPHALT/CONCRETE                 | MH MANHOLE  |
| ACP ASPHALT CONCRETE PAVEMENT       | MIC MONUMENT IN CASE                                  |
| ADA AMERICANS WITH DISABILITIES ACT | MON MONUMENT  |
| AP ANGLE POINT                      | N NORTH OR NORTHING                                   |
| APPROX APPROXIMATE                  | NAD NORTH AMERICAN DATUM                              |
| BLDG BUILDING                       | NAVD NORTH AMERICAN VERTICAL DATUM                    |
| CB CATCH BASIN                      | NB NORTHBOUND   |
| CCP CEMENT CONCRETE PAVEMENT        | NO NUMBER   |
| CDF CONTROLLED DENSITY FILL         | NTS NOT TO SCALE                                      |
| CHLK CHAINLINK                      | NUD NORTHSHORE UTILITY DISTRICT                       |
| C CENTERLINE                        | OC ON CENTER  |
| CL CLASS                            | OD OUTSIDE DIAMETER                                   |
| CO CLEANOUT                         | OH OVERHEAD   |
| COK CITY OF KIRKLAND                | PC POINT OF CURVE                                     |
| COL COLUMN                          | PCC POINT OF COMPOUND CURVATURE                       |
| COMM COMMUNICATION                  | PCCP PERVIOUS CEMENT CONCRETE PAVEMENT                |
| CONC CONCRETE                       | PED PEDESTRIAN  |
| CSBC CRUSHED SURFACING BASE COURSE  | PI POINT OF INTERSECTION                              |
| CSTC CRUSHED SURFACING TOP COURSE   | POB POINT OF BEGINNING                                |
| CT CONIFEROUS TREE                  | POE POINT OF ENDING                                   |
| DI DUCTILE IRON                     | PRC POINT OF REVERSE CURVATURE                        |
| DIA DIAMETER                        | PT POINT OF TANGENT                                   |
| DT DECIDUOUS TREE                   | PVC POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE |
| DW DRIVEWAY                         | PVT POINT OF VERTICAL TANGENT                         |
| E EAST OR EASTING                   | PVI POINT OF VERTICAL INTERSECTION                    |
| EA EACH                             | R RADIUS  |
| EB EASTBOUND                        | ROW RIGHT OF WAY                                      |
| EG EXISTING GRADE                   | R/W RIGHT OF WAY                                      |
| EL, ELEV ELEVATION                  | RT RIGHT  |
| EOP EDGE OF PAVEMENT                | S SLOPE OR SOUTH                                      |
| EW EACH WAY                         | SB SOUTHBOUND   |
| EX EXISTING                         | SD STORM DRAIN  |
| EXIST EXISTING                      | SDMH STORM DRAIN MANHOLE                              |
| FF FINISHED FLOOR                   | SDR STANDARD DIMENSIONAL RATIO                        |
| FG FINISHED GRADE                   | SE SOUTHEAST  |
| FL FLOW LINE                        | SHT SHEET   |
| FO FIBER OPTIC                      | SQ SQUARE   |
| FOC FACE OF CURB                    | SS SANITARY SEWER                                     |
| GPS GLOBAL POSITIONING SYSTEM       | SMH SANITARY SEWER MANHOLE                            |
| HMA HOT MIX ASPHALT                 | ST STREET   |
| HORIZ HORIZONTAL                    | STA STATION   |
| HP HIGH POINT                       | STD STANDARD  |
| ID INSIDE DIAMETER                  | STCR STRUCTURE  |
| IE INVERT ELEVATION                 | SW SOUTHWEST  |
| IN INCH/INCHES                      | THRU THROUGH  |
| JB JUNCTION BOX                     | TYP TYPICAL   |
| L LENGTH                            | TOC TOP OF CURB                                       |
| LT LEFT                             | TWLT TWO WAY LEFT TURN                                |
| LF LINEAR FEET                      | UG UNDERGROUND  |
| LP LOW POINT                        | VERT VERTICAL   |
| MAX MAXIMUM                         | W WEST  |
| MIN MINIMUM                         | WB WESTBOUND  |
|                                     | YD YARD DRAIN   |

## BID DOCUMENTS

**CITY OF KIRKLAND**  
 DEPARTMENT OF PUBLIC WORKS  
 123 FIFTH AVENUE KIRKLAND, WA 98033  
 (425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



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 719 Second Ave, Suite 1250  
 Seattle, WA 98104  
 (206) 382-9800  
 www.dksassociates.com

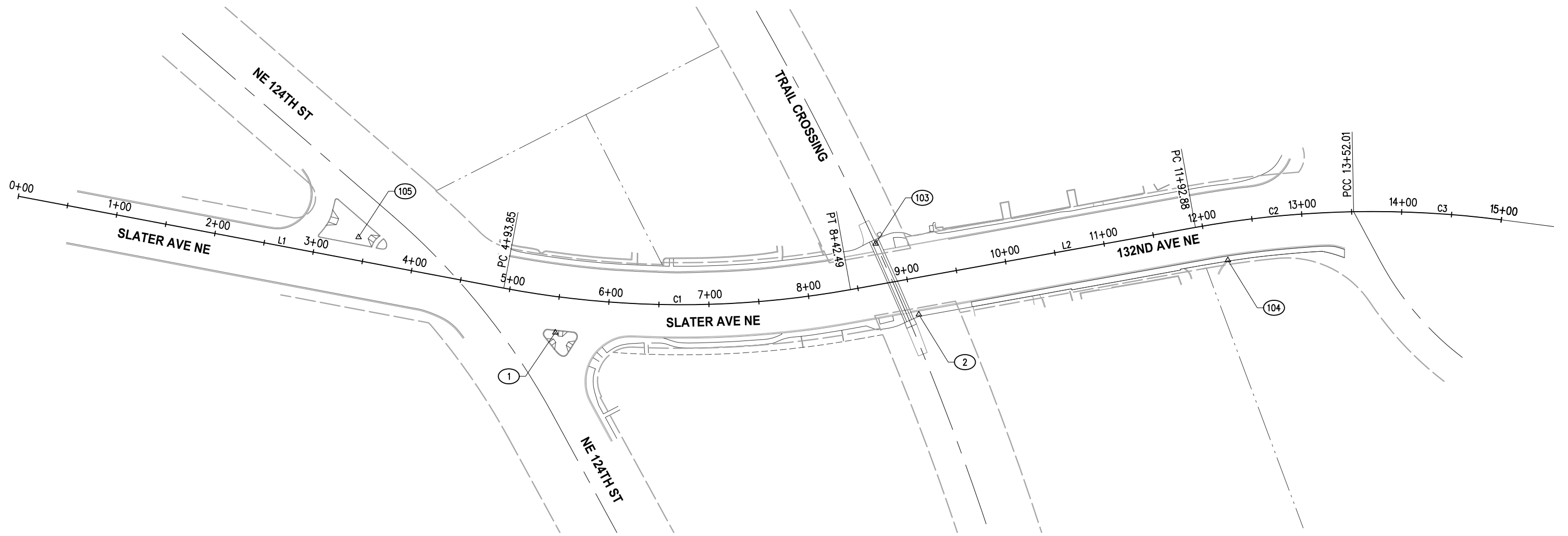
T. CHUDGAR	12-06-24
DESIGNED BY:	DATE
C. TOWER	12-06-24
DRAWN BY:	DATE
J. LIU	12-06-24
CHECKED BY:	DATE

CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 LEGEND & ABBREVIATIONS

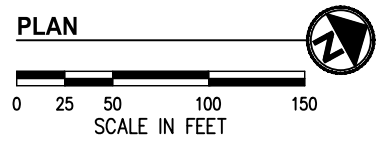
SHEET:	2 of 33
SCALE:	NTS
FILENAME:	GN01

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132ND AVE NE - ALIGNMENT DATA						
NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS
L1	0+00.00	261994.95	1311858.96	493.85'	N 39°16'17" E	
C1	4+93.85	262377.27	1312171.57	348.64'	20°55'01"	955.00'
L2	8+42.49	262681.05	1312338.66	350.39'	N 18°21'16" E	
C2	11+92.88	263013.62	1312449.00	159.13'	9°07'03"	1000.00'
C3	13+52.01	263160.04	1312510.89	147.99'	8°28'45"	1000.00'



**HORIZONTAL AND VERTICAL DATUM**

HORIZONTAL DATUM: NAD 83/11, NORTH ZONE.

VERTICAL DATUM: NAVD 88

HORIZONTAL AND VERTICAL DATUMS ESTABLISHED BY [RTK GPS OBSERVATION UTILIZING WSRN (WASHINGTON STATE REFERENCE NETWORK) WITH CHECKS TO WSDOT CONTROL POINT IS17145]

# CONTROL POINT LIST				
PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	PK.SPIKE	262401.33	1312235.14	140.24'
2	PK.SPIKE	262729.09	1312393.14	137.81'
103	PK.MAG	262724.99	1312310.36	137.05'
104	PK.SPIKE	263026.42	1312493.23	152.36'
105	PK.SPIKE	262274.11	1312057.43	142.03'

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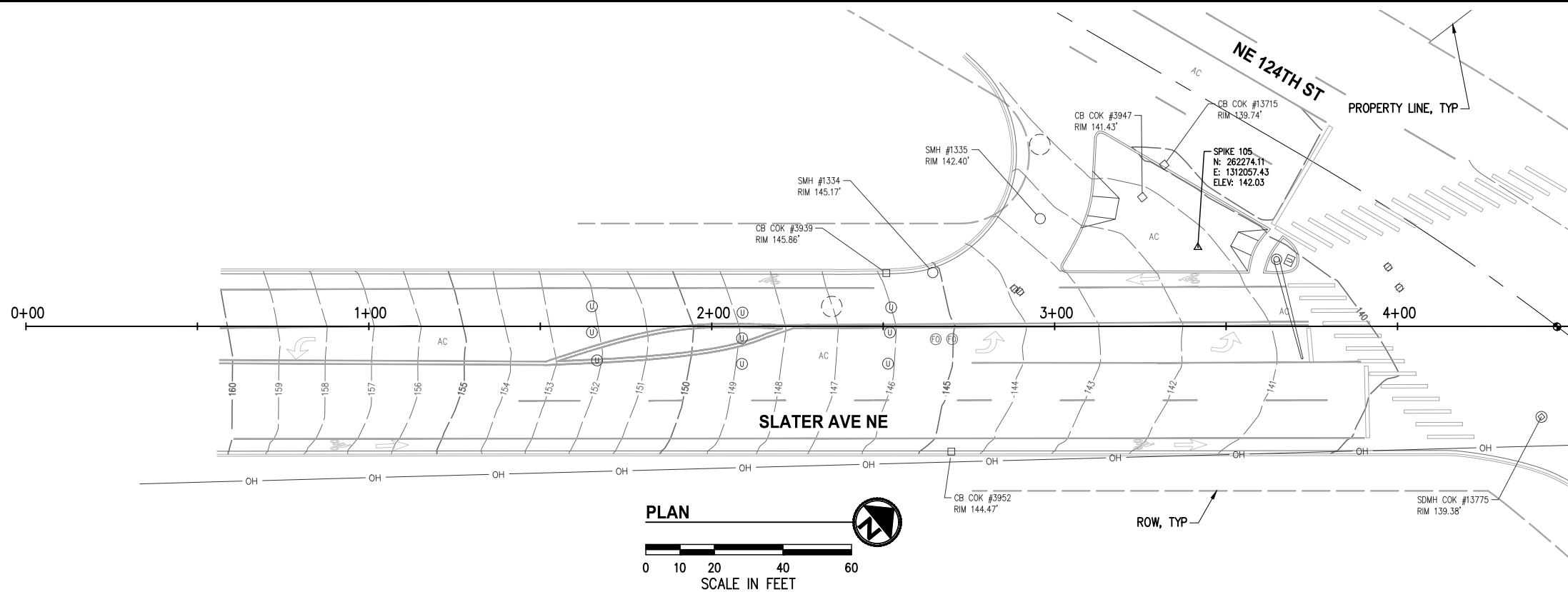
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 Tacoma  
 2502 Jefferson Avenue  
 Tacoma, WA 98402 253.627.0720  
 Seattle | Wenatchee | KPG.com



E. OLSON	12-20-24
DESIGNED BY:	DATE
A. HALL	12-20-24
DRAWN BY:	DATE
E. OLSON	12-20-24
CHECKED BY:	DATE

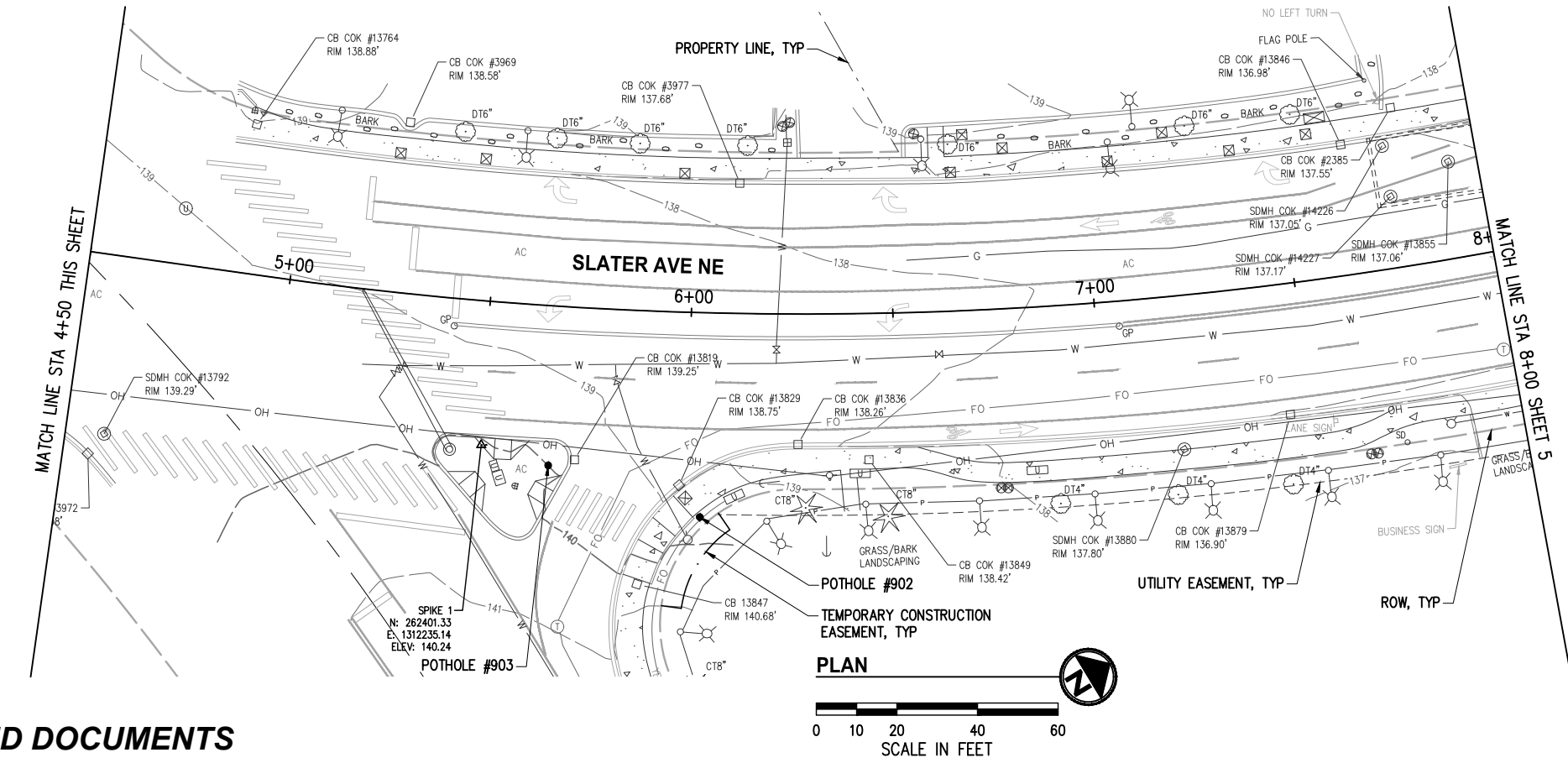
CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 ALIGNMENT AND SURVEY CONTROL PLAN

SHEET:	3 OF 33
SCALE:	1"=50'
FILENAME:	SC01



MATCH LINE STA 4+50 THIS SHEET

- NOTES**
1. THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR CIVIL ENGINEERING DESIGN. THIS IS NOT A BOUNDARY SURVEY. SOURCES OF BOUNDARY INFORMATION AS SHOWN INCLUDE FIELD-TIED MONUMENTATION, PLATS, COUNTY RECORDS OF SURVEY, AND AUDITOR INDEXING INFORMATION.
  2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.  
  
THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL LOCATOR SERVICES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION OR SUBSURFACE EXPLORATION. CALL 1-800-424-5555.
  3. FIELD SURVEY: KPG, JUNE, 2023. LICENSEE MICHAEL R. BOWEN, P.L.S. NO. 29294/RONALD D. REICHEL, P.L.S. NO. 38015.
  4. CONTOUR INTERVAL = 1 FOOT, ±0.5 FOOT PER NATIONAL MAPPING STANDARDS. CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS.
  5. STORM AND SEWER CONNECTIONS HAVE BEEN DRAWN FROM CENTER OF LID TO CENTER OF LID.
  6. THE LOCATIONS AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.
  7. SEE APPENDIX OF PROJECT SPECIAL PROVISIONS FOR POTHOLE RESULTS



MATCH LINE STA 4+50 THIS SHEET


MATCH LINE STA 8+00 SHEET 5

**BID DOCUMENTS**



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 DEPARTMENT OF PUBLIC WORKS  
 123 FIFTH AVENUE KIRKLAND, WA 98033  
 (425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



**ERICK EMOM OLSON**  
 LICENSED PROFESSIONAL ENGINEER  
 12-20-2024



**KPG PSOMAS**  
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 2502 Jefferson Avenue  
 Tacoma, WA 98402 253.627.0720  
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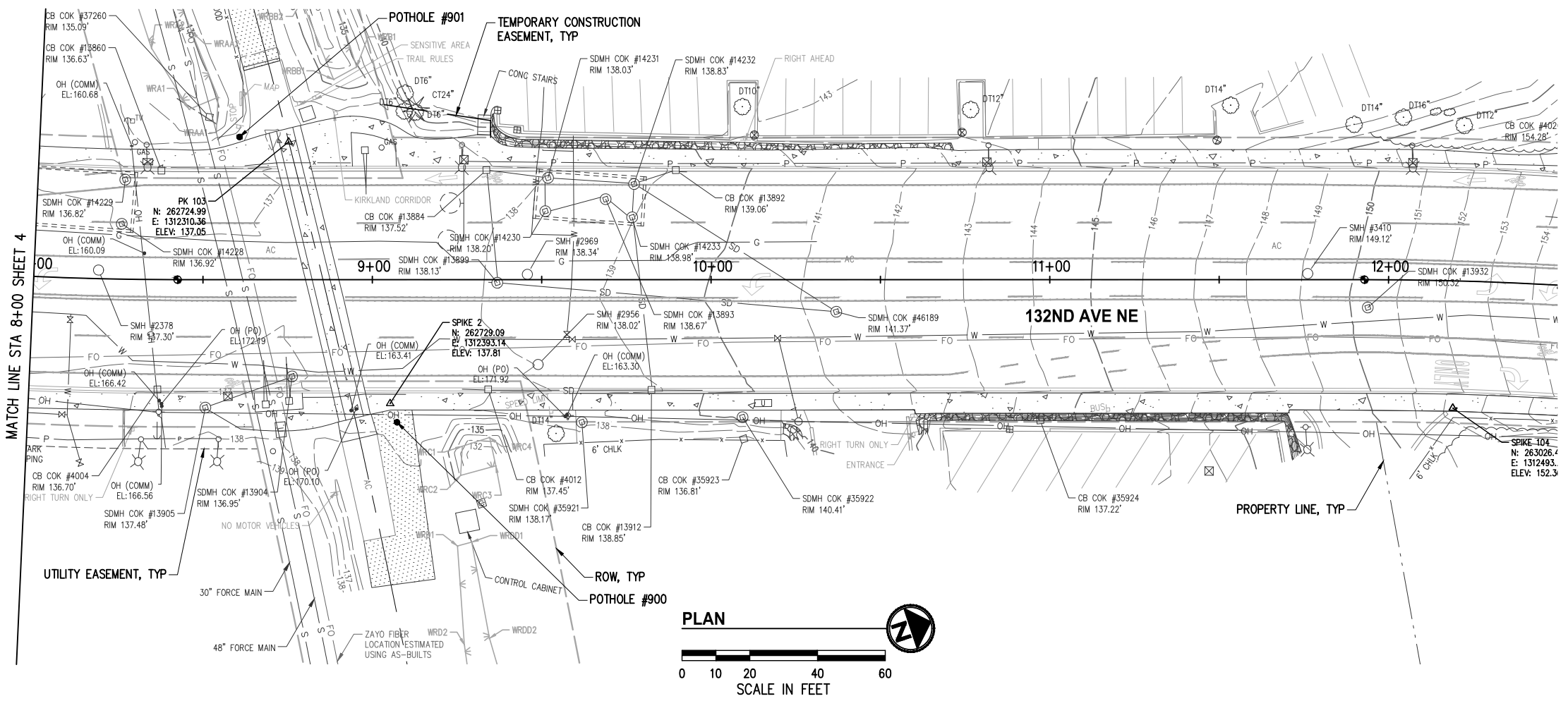
**811**  
 Know what's below.  
 Call 811 before you dig.

E. OLSON	12-20-24
DESIGNED BY:	DATE
A. HALL	12-20-24
DRAWN BY:	DATE
E. OLSON	12-20-24
CHECKED BY:	DATE

CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 EXISTING CONDITIONS  
 STA 0+00 TO STA 8+00

SHEET:	4 OF 33
SCALE:	1"=20'
FILENAME:	EC01

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- NOTES**
1. THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR CIVIL ENGINEERING DESIGN. THIS IS NOT A BOUNDARY SURVEY. SOURCES OF BOUNDARY INFORMATION AS SHOWN INCLUDE FIELD-TIED MONUMENTATION, PLATS, COUNTY RECORDS OF SURVEY, AND AUDITOR INDEXING INFORMATION.
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  6. THE LOCATIONS AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.
  7. SEE APPENDIX OF PROJECT SPECIAL PROVISIONS FOR POT HOLE RESULTS

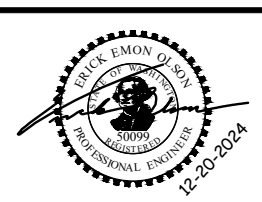
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**BID DOCUMENTS**



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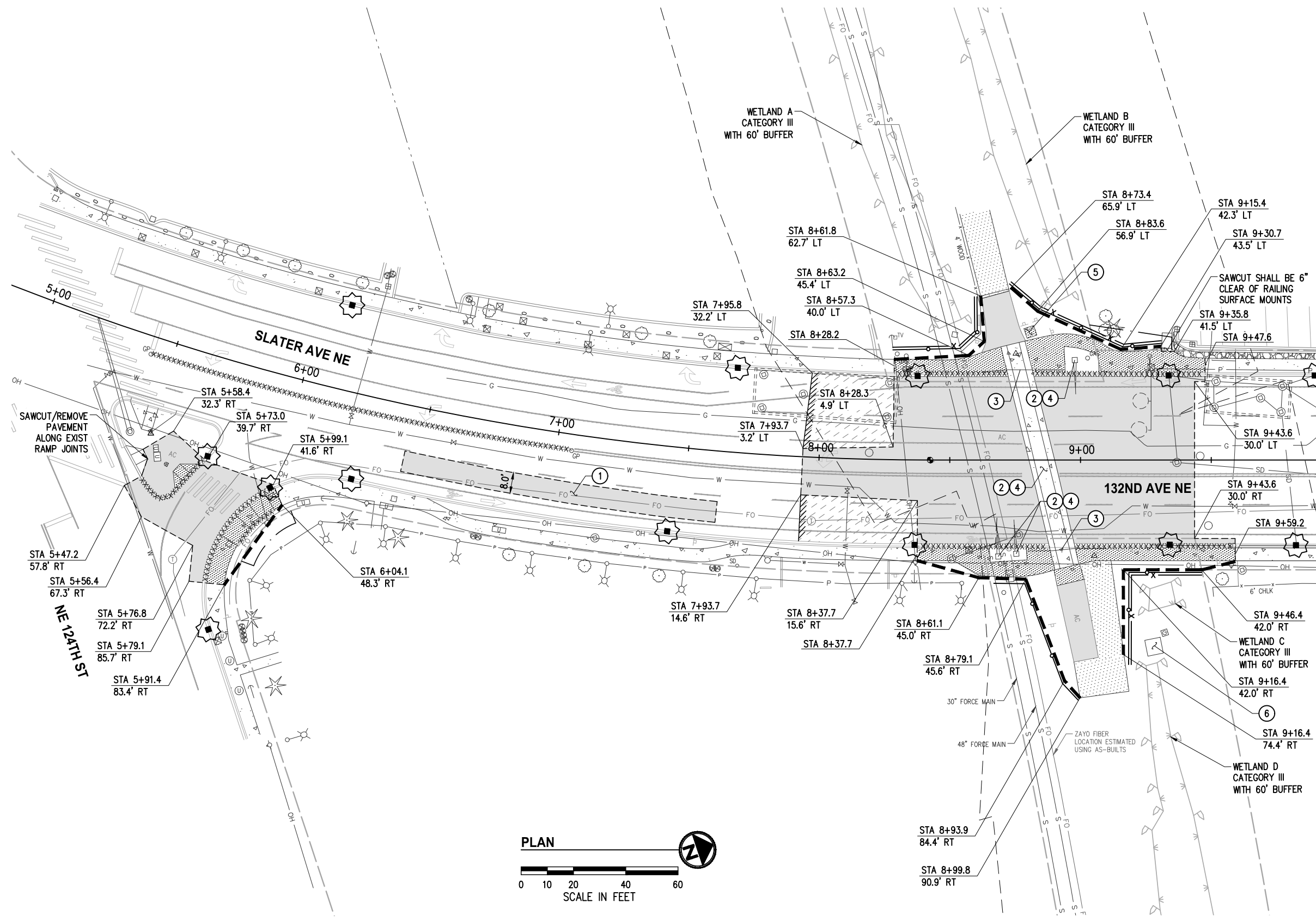


E. OLSON	12-20-24
DESIGNED BY:	DATE
A. HALL	12-20-24
DRAWN BY:	DATE
E. OLSON	12-20-24
CHECKED BY:	DATE

CITY OF KIRKLAND  
132ND AVE NE & SLATER AVE CROSSING  
NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
EXISTING CONDITIONS  
STA 8+00 TO STA 12+50

SHEET:	5 of 33
SCALE:	1"=20'
FILENAME:	EC02

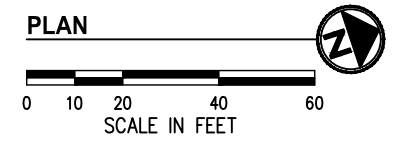
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- ### GENERAL NOTES
- PRESERVE AND PROTECT ALL UTILITIES, STRUCTURES, AND VEGETATION NOT CALLED OUT FOR REMOVAL.
  - ITEMS NOTED FOR REMOVAL ARE TO BE DEMOLISHED, HAULED, AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
  - MAINTAIN DRIVEWAY AND BUSINESS ACCESS AT ALL TIMES UNLESS OTHERWISE NOTED IN THE SPECIAL PROVISIONS.
  - ASPHALT & CONCRETE REMOVAL AND CLEARING AND GRUBBING LIMITS SHOWN ARE APPROXIMATE. LIMITS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY DEMOLITION/CLEARING ACTIVITIES.
  - SIDEWALK SHALL BE REMOVED TO NEAREST JOINT BEYOND LIMITS SHOWN UNLESS DIRECTED OTHERWISE.
  - EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.
  - SEE TRAFFIC SIGNAL PLAN SHEETS 20-27 FOR CONDUIT PLACEMENT AND TRENCHING

- ### CONSTRUCTION NOTES
- SAWCUT AND REMOVE PAVEMENT TO CONSTRUCT MEDIAN; SEE ROADWAY PLAN SHEET 7 AND TYPICAL SECTION B, SHEET 12
  - REMOVE AND DISPOSE OF NON-SALVAGEABLE RAILROAD RAIL, EQUIPMENT, AND CONCRETE AND STEEL CROSSING PAD. SEE SPECIAL PROVISIONS SECTION 2-02
  - REMOVE CHAINLINK FENCE. SEE CHANNELIZATION PLAN SHEET 16 FOR FENCE SIGN REMOVAL
  - PROTECT, SALVAGE AND DELIVER RAILROAD CROSSING GATE, SIGNALS, STEEL TRUSS CANTILEVER STRUCTURE AND RAIL PER SPECIAL PROVISIONS SECTION 2-02
  - REMOVE AND SALVAGE WASTE RECEPTACLE FOR REINSTALLATION
  - PRESERVE AND PROTECT EXISTING RAILROAD BUNGALOW TO REMAIN IN PLACE

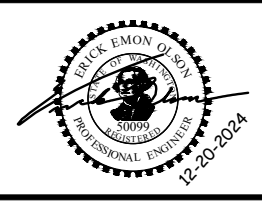
- ### LEGEND
- REMOVE CEMENT CONCRETE
  - REMOVE ASPHALT CONCRETE PAVEMENT
  - 2" PAVEMENT PLANING
  - EXISTING GRAVEL
  - CURB REMOVAL
  - SAWCUT LINE
  - BUTT JOINT
  - HIGH VISIBILITY SILT FENCE PER C.O.K. STD PLAN CK-E.03
  - 6" TEMP CHAIN LINK CONSTRUCTION FENCE INSTALLED BEHIND SILT FENCE
  - CLEARING AND GRUBBING LIMITS
  - EXIST RIGHT OF WAY
  - TEMPORARY CONSTRUCTION EASEMENT
  - INLET PROTECTION PER C.O.K. STD PLAN CK-E.08
  - SURVEYED WETLAND
  - WETLAND FLAG LOCATION
  - STANDARD WETLAND BUFFER



**BID DOCUMENTS**

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 123 FIFTH AVENUE KIRKLAND, WA 98033  
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E. OLSON	12-20-24
DESIGNED BY:	DATE
A. HALL	12-20-24
DRAWN BY:	DATE
E. OLSON	12-20-24
CHECKED BY:	DATE

CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 SITE PREPARATION PLAN

SHEET:	6 OF 33
SCALE:	1"=20'
FILENAME:	SP01

**GENERAL NOTES**

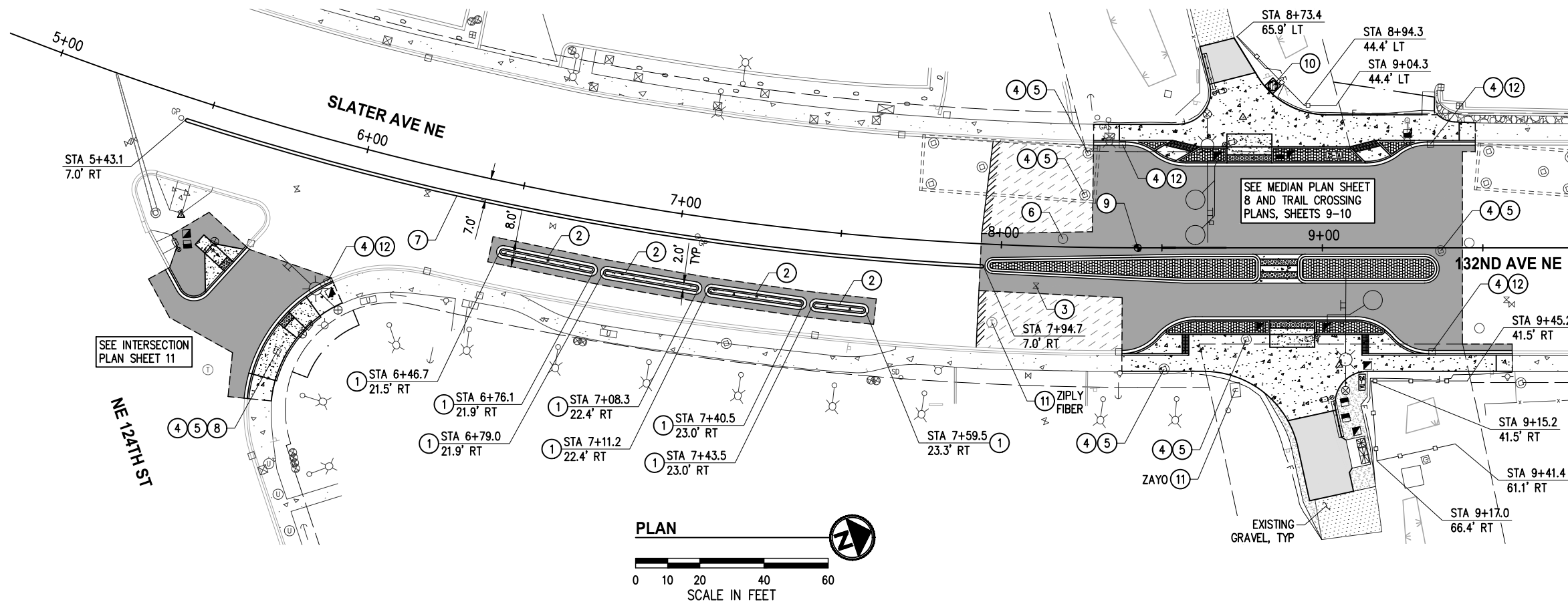
- CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
- SEE ALIGNMENT & SURVEY CONTROL PLAN SHEET 3 FOR CONSTRUCTION CENTERLINE GEOMETRY. SEE SITE PREP PLAN SHEET 6 FOR SAWCUT/MATCH LINES. SEE MEDIAN PLAN SHEET 8 FOR MAINLINE/MEDIAN HORIZONTAL/VERTICAL GEOMETRY. SEE SHEETS 9-11 FOR CURB RAMP, BIKE RAMP, AND SIDEWALK LAYOUT & GRADING. SEE SHEETS 12-13 FOR TYPICAL SECTIONS & PAVEMENT DEPTHS. SEE SHEET 15 FOR RESTORATION TABLE. SEE TRAFFIC SIGNAL PLANS SHEETS 21-29 AND ILLUMINATION PLANS SHEETS 30-31 FOR SIGNAL & LIGHTING IMPROVEMENTS.

**CONSTRUCTION NOTES**

- CEMENT CONC MEDIAN PER SECTION A, SHEET 12 AND DETAIL 6, SHEET 14
- CEMENT CONC CURB & GUTTER PER C.O.K. STD PLAN CK-R.17. SEE TYPICAL SECTIONS, SHEET 12 FOR LOCATIONS OF REVERSE SLOPE GUTTER PAN
- ADJUST WATER VALVE TO GRADE
- ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE PER C.O.K. STD PLAN CK-D.11
- INSTALL STORM DRAIN FRAME WITH LOCKING COVER AND LOGO PER C.O.K. STD PLAN CK-D.18A
- REPLACE SEWER MANHOLE FRAME AND COVER AND ADJUST TO GRADE PER NUD STD SEWER DETAILS 1 AND 5
- MOUNTABLE MEDIAN CURB PER C.O.K. STD PLAN CK-R.19B
- CIRCULAR RISER AND TRANSITION PER C.O.K. STD PLAN CK-D.07A
- PERPETUATE MONUMENT, INSTALL MONUMENT CASE AND COVER PER C.O.K. STD PLAN CK-R.03
- SEE TRAIL CROSSING PLAN SHEET 9 FOR WASTE RECEPTACLE REINSTALLATION
- UTILITY TO BE ADJUSTED BY OWNER NOTED IN PLANS
- INSTALL OPEN CURB FACE FRAME AND GRATE PER C.O.K. STD PLANS CK-D.15 AND CK-D.16

**LEGEND**

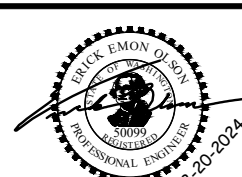
- CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23
- CEMENT CONC CURB RAMP, PER SHEETS 9-11
- ASPHALT CONC PAVEMENT PER SECTION D, SHEET 13 FOR THE WEST TRAIL TIE-IN AND SECTION E, SHEET 13 FOR THE EAST TRAIL TIE-IN
- ASPHALT CONC PAVEMENT PER TYPICAL SECTIONS, SHEET 12
- HMA OVERLAY PER SECTION B, SHEET 12
- DECORATIVE BRICK STAMPED CEMENT CONC MEDIAN PER DETAIL 2, SHEET 14
- DETECTABLE WARNING SURFACE PER C.O.K. STD PLAN CK-R.25B
- PRECAST TACTILE PAVER PER DETAIL 7, SHEET 14
- GRAVEL OR TRAIL SURFACE PER RESTORATION TABLE, SHEET 14
- SAWCUT LINE PER SITE PREP PLAN SHEET 6
- BUTT JOINT
- EXIST RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE FILL LINE
- WOOD SPLIT RAIL FENCE PER DETAIL 8, SHEET 15
- JUNCTION BOX, PER TRAFFIC SIGNAL SHEETS 21-29 AND ILLUMINATION SHEETS 30-31



**BID DOCUMENTS**

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CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 ROADWAY AND TRAIL CROSSING PLANS  
 ROADWAY PLAN

SHEET:	7 OF 33
SCALE:	1"=20'
FILENAME:	RD01

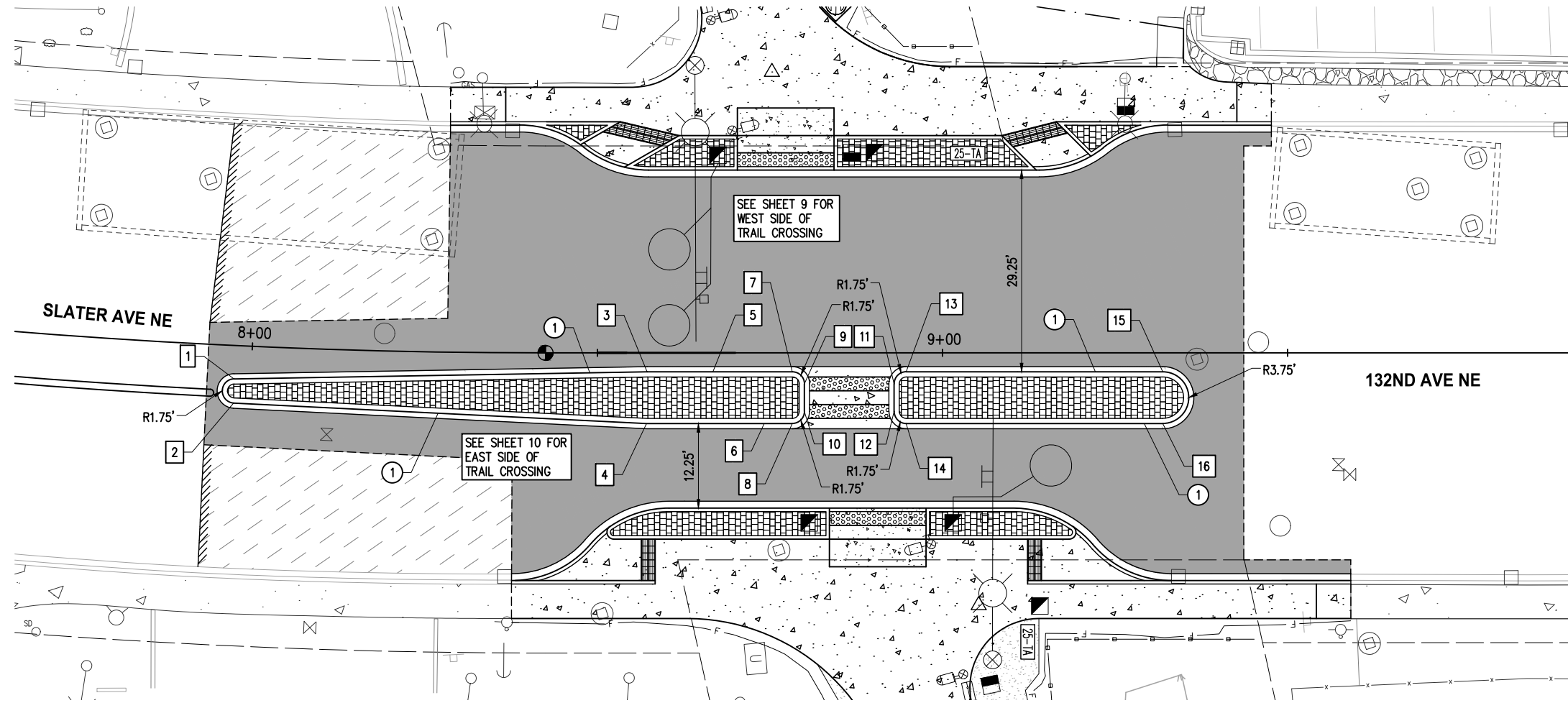
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**GENERAL NOTES**

- SEE ALIGNMENT & SURVEY CONTROL PLAN SHEET 3 FOR CONSTRUCTION CENTERLINE GEOMETRY. SEE SITE PREP PLAN SHEET 6 FOR SAWCUT/MATCH LINES. SEE SHEETS 9-11 FOR CURB RAMP, BIKE RAMP, AND SIDEWALK LAYOUT & GRADING. SEE SHEETS 12-13 FOR TYPICAL SECTIONS & PAVEMENT DEPTHS. SEE TRAFFIC SIGNAL PLANS SHEETS 21-29 AND ILLUMINATION PLANS SHEETS 30-31 FOR SIGNAL & LIGHTING IMPROVEMENTS.

**CONSTRUCTION NOTES**

- ROUNDBOUT CEMENT CONC CURB AND GUTTER TYPE 2 PER WSDOT STD PLAN F-10.18 WITH 2% REVERSE SLOPE PER TYPICAL SECTIONS B AND C, SHEET 12



# POINT TABLE				
#	STATION	OFFSET	ELEV	DESCRIPTION
1	7+97.6	4.8' RT	137.41	PC
2	7+97.7	8.3' RT	137.38	PT
3	8+57.2	2.8' RT	137.41	AP
4	8+57.1	10.3' RT	137.38	AP
5	8+66.7	2.8' RT	137.41	PVI
6	8+74.2	10.3' RT	137.38	PVI
7	8+78.2	2.8' RT	137.54	PC
8	8+78.2	10.3' RT	137.44	PC
9	8+80.0	4.5' RT	137.55	PT
10	8+80.0	8.5' RT	137.50	PT
11	8+93.0	4.5' RT	137.69	PC
12	8+93.0	8.5' RT	137.64	PC
13	8+94.7	2.7' RT	137.75	PT
14	8+94.7	10.2' RT	137.64	PT
15	9+31.9	2.8' RT	138.17	PC
16	9+31.9	10.3' RT	138.11	PT

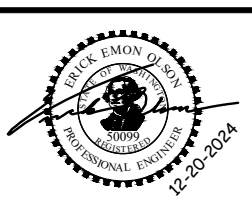
**LEGEND**

- CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R23
- CEMENT CONC CURB RAMP, PER SHEETS 9-11
- ASPHALT CONC PAVEMENT PER SECTION B AND C, SHEET 12
- 2" HMA OVERLAY
- DETECTABLE WARNING SURFACE PER C.O.K. STD PLAN CK-R25B
- DECORATIVE BRICK STAMPED CEMENT CONC MEDIAN PER DETAIL 2, SHEET 14
- SAWCUT LINE PER SITE PREP PLAN SHEET 6
- BUTT JOINT

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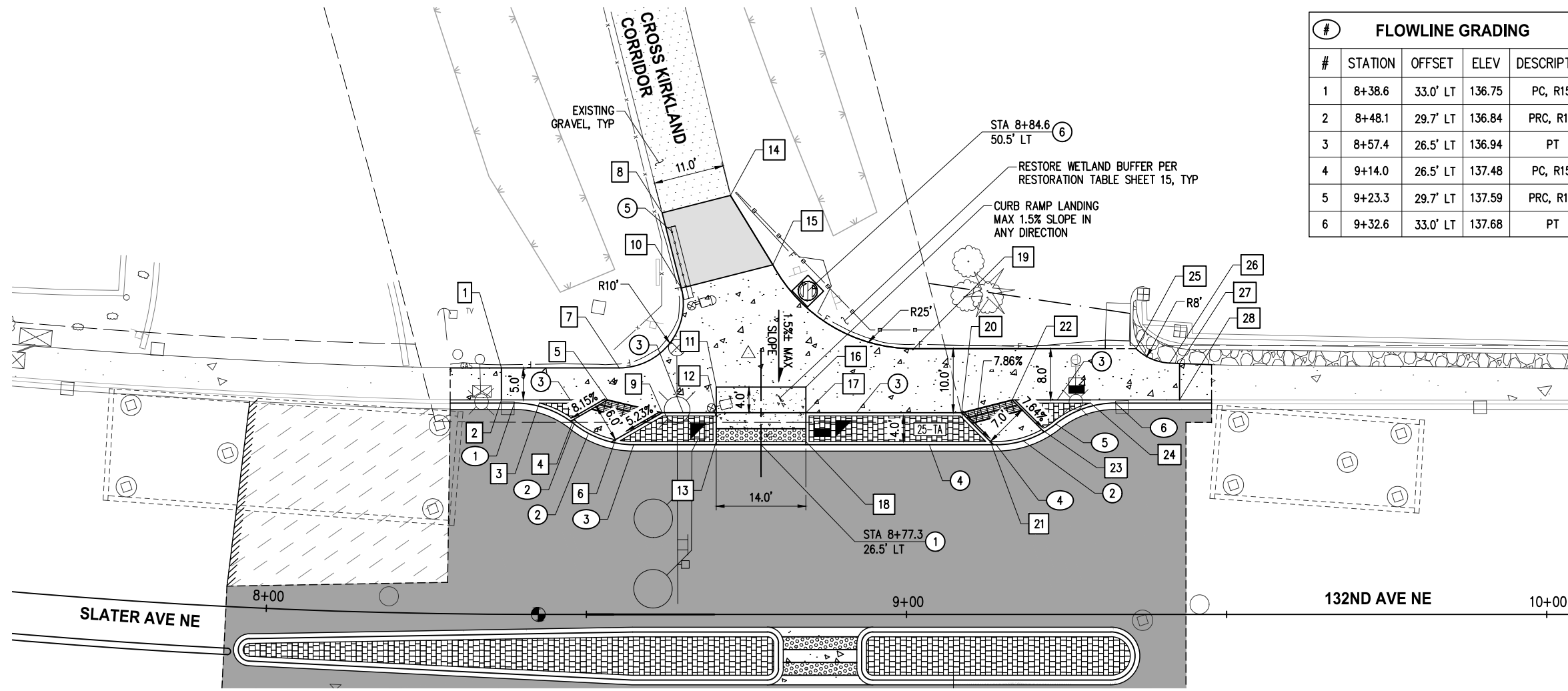
CITY OF KIRKLAND  
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 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 ROADWAY AND TRAIL CROSSING PLANS  
 ROADWAY MEDIAN

SHEET:	8 OF 33
SCALE:	1"=10'
FILENAME:	RD02

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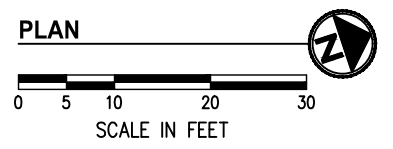
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#	STATION	OFFSET	ELEV	DESCRIPTION
1	8+38.6	33.0' LT	136.75	PC, R15'
2	8+48.1	29.7' LT	136.84	PRC, R15'
3	8+57.4	26.5' LT	136.94	PT
4	9+14.0	26.5' LT	137.48	PC, R15'
5	9+23.3	29.7' LT	137.59	PRC, R15'
6	9+32.6	33.0' LT	137.68	PT

- ### GENERAL NOTES
- ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR WHEN FORMS ARE SET AND WHEN CONCRETE IS POURED. ANY GRADING MODIFICATIONS REQUIRED FOR COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
  - SEE ALIGNMENT & SURVEY CONTROL PLAN SHEET 3 FOR CONSTRUCTION CENTERLINE GEOMETRY. SEE SITE PREP PLAN SHEET 6 FOR SAWCUT/MATCH LINES. SEE MEDIAN PLAN SHEET 8 FOR MAINLINE/MEDIAN HORIZONTAL/VERTICAL GEOMETRY. SEE SHEETS 12-13 FOR TYPICAL SECTIONS & PAVEMENT DEPTHS. SEE SHEET 15 FOR RESTORATION TABLE. SEE TRAFFIC SIGNAL PLANS SHEETS 21-29 AND ILLUMINATION PLANS SHEETS 30-31 FOR SIGNAL & LIGHTING IMPROVEMENTS.
  - CURB RAMP LOCATION SHOWN IS RAMP CENTER AT FACE OF CURB.
  - BOTTOM OF RAMP LOCATIONS SHOWN ARE AT BACK OF DEPRESSED CURB.
  - BIKE RAMP SLOPES SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. ALL RAMPS SHALL BE GRADED PER THE POINT TABLES.

- ### CONSTRUCTION NOTES
- CEMENT CONC PERPENDICULAR CURB RAMP PER WSDOT STD PLAN F-40.15
  - CEMENT CONC BICYCLE RAMP
  - CEMENT CONC PEDESTRIAN CURB PER C.O.K. STD PLAN CK-R.17A. CURB TO BE FLUSH WITH SIDEWALK GRADE WHEN ADJACENT TO SIDEWALK
  - CEMENT CONC CURB & GUTTER PER C.O.K. STD PLAN CK-R.17
  - BICYCLE LEANING RAIL, SEE SHEET 25
  - REINSTALL WASTE RECEPTACLE WITH NEW HARDWARE ON NEW 3.5'X3.5'X6" CONC PAD CENTERED AT NOTED LOCATION ALIGNED FLUSH WITH BACK OF WALK



#	STATION	OFFSET	ELEV	DESCRIPTION
1	8+36.5	38.5' LT	137.36	BEGIN TRANSITION PANEL
2	8+36.5	33.5' LT	137.31	BEGIN TRANSITION PANEL
3	8+42.7	33.0' LT	137.36	STAMPED CONC PLANTER TOC
4	8+48.0	30.4' LT	136.83	BOTTOM OF BIKE RAMP
5	8+53.3	33.5' LT	137.33	TOP OF BIKE RAMP
6	8+54.5	27.3' LT	136.92	BOTTOM OF BIKE RAMP
7	8+55.1	38.5' LT	137.40	BOW, PC
8	8+61.8	62.7' LT	137.09±	TRAIL TIE-IN
9	8+61.8	31.5' LT	137.36	TOP OF BIKE RAMP
10	8+64.8	51.0' LT	137.20	EOP/BOW, PT

#	STATION	OFFSET	ELEV	DESCRIPTION
11	8+70.3	35.5' LT	137.46	LANDING CORNER
12	8+70.3	31.5' LT	137.40	TOP OF CURB RAMP
13	8+70.3	27.0' LT	137.07	BOTTOM OF CURB RAMP
14	8+72.5	65.4' LT	137.09±	TRAIL TIE-IN
15	8+79.1	54.6' LT	137.27	EOP/BOW, PC
16	8+84.3	35.5' LT	137.59	LANDING CORNER
17	8+84.3	31.5' LT	137.53	TOP OF CURB RAMP
18	8+84.3	27.0' LT	137.20	BOTTOM OF CURB RAMP
19	9+01.1	41.5' LT	137.99	BOW, PT
20	9+08.6	31.5' LT	137.98	TOP OF BIKE RAMP

#	STATION	OFFSET	ELEV	DESCRIPTION
21	9+13.1	27.0' LT	137.48	BOTTOM OF BIKE RAMP
22	9+16.5	33.5' LT	138.06	TOP OF BIKE RAMP
23	9+21.1	28.9' LT	137.56	BOTTOM OF BIKE RAMP
24	9+28.7	33.0' LT	138.22	STAMPED CONC PLANTER TOC
25	9+35.8	41.5' LT	138.23±	MATCH EXIST, PC
26	9+41.1	39.3' LT	138.34	BACK OF WALK, PT
27	9+42.6	39.2' LT	138.36	BEGIN TRANSITION PANEL
28	9+42.6	33.5' LT	138.27	BEGIN TRANSITION PANEL

- ### LEGEND
- CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23
  - CEMENT CONC CURB RAMP/LANDING, OVER 4" CSTC
  - ASPHALT CONC PAVEMENT PER SECTION D, SHEET 13 FOR THE WEST TRAIL TIE-IN AND SECTION E, SHEET 13 FOR THE EAST TRAIL TIE-IN
  - ASPHALT CONC PAVEMENT PER SECTION B AND C, SHEET 12
  - 2" HMA OVERLAY
  - DETECTABLE WARNING SURFACE PER C.O.K. STD PLAN CK-R.25B
  - DECORATIVE BRICK STAMPED CEMENT CONC MEDIAN PER DETAIL 2, SHEET 14
  - PRECAST TACTILE PAVER PER DETAIL 7, SHEET 14
  - SAWCUT LINE PER SITE PREP PLAN SHEET 6
  - BUTT JOINT
  - EXIST RIGHT OF WAY
  - TEMPORARY CONSTRUCTION EASEMENT
  - JUNCTION BOX, PER TRAFFIC SIGNAL SHEETS 21-29 AND ILLUMINATION SHEETS 30-31

**BID DOCUMENTS**

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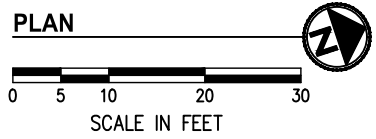
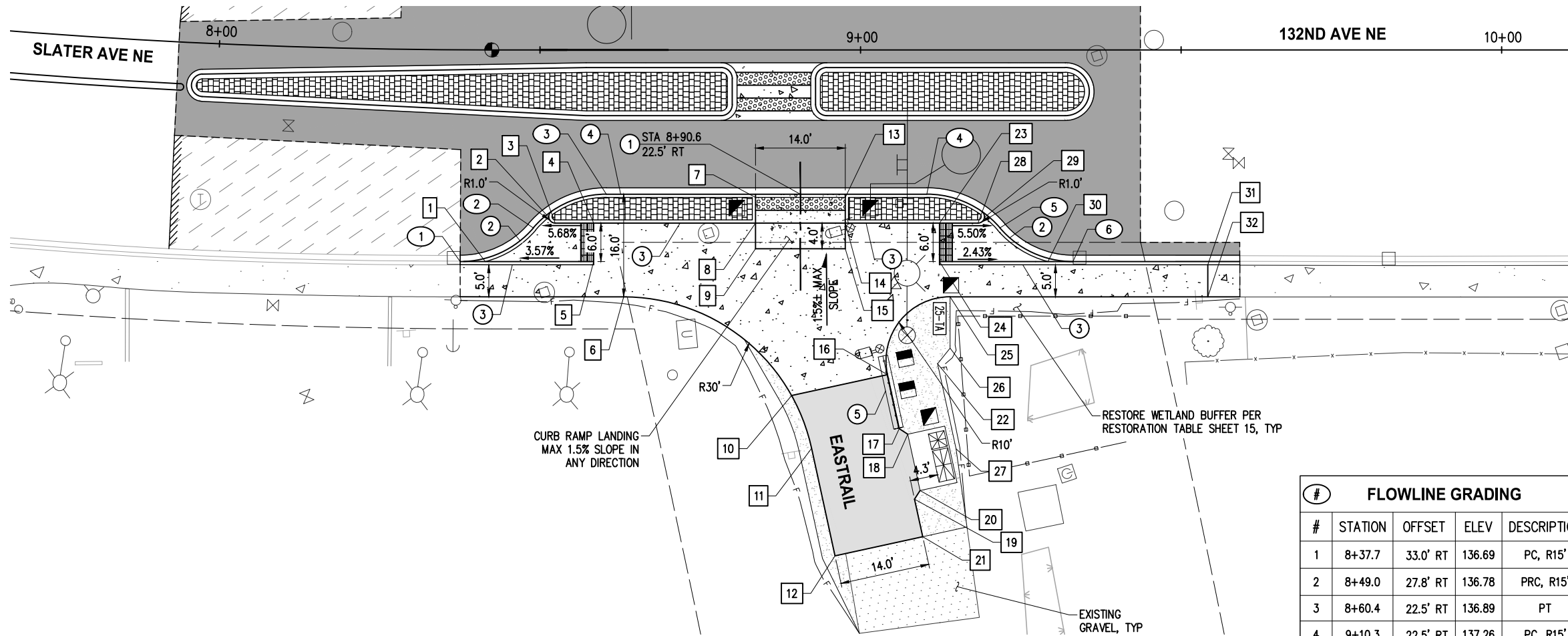
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CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 ROADWAY AND TRAIL CROSSING PLANS  
 TRAIL-WEST SIDE

SHEET:	9 of 33
SCALE:	1"=10'
FILENAME:	RD03



#	STATION	OFFSET	ELEV	DESCRIPTION
1	8+37.7	33.0' RT	136.69	PC, R15'
2	8+49.0	27.8' RT	136.78	PRC, R15'
3	8+60.4	22.5' RT	136.89	PT
4	9+10.3	22.5' RT	137.26	PC, R15'
5	9+21.7	27.8' RT	137.36	PRC, R15'
6	9+33.1	33.0' RT	137.68	PT

##	#	STATION	OFFSET	ELEV	DESCRIPTION
	1	8+41.5	33.0' RT	136.72	BOTTOM OF BIKE RAMP
	2	8+51.4	26.1' RT	136.81	BOTTOM OF BIKE RAMP
	3	8+52.4	27.0' RT	136.92	PED CURB FL, PT
	4	8+58.4	27.0' RT	137.23	TOP OF BIKE RAMP
	5	8+58.4	33.0' RT	137.32	TOP OF BIKE RAMP
	6	8+63.1	38.5' RT	137.58	BOW, PC
	7	8+83.6	23.0' RT	137.06	BOTTOM OF CURB RAMP
	8	8+83.6	27.0' RT	137.36	TOP OF CURB RAMP
	9	8+83.6	31.0' RT	137.42	LANDING CORNER
	10	8+89.3	53.9' RT	137.37	EOP/BOW SPOT ELEV
	11	8+92.4	62.1' RT	137.13	EOP, PT

##	#	STATION	OFFSET	ELEV	DESCRIPTION
	12	8+96.0	78.9' RT	136.65 ±	TRAIL TIE-IN
	13	8+97.6	23.0' RT	137.17	BOTTOM OF CURB RAMP
	14	8+97.6	27.0' RT	137.47	TOP OF CURB RAMP
	15	8+97.6	31.0' RT	137.53	LANDING CORNER
	16	9+04.2	50.6' RT	137.44	EOP/BOW, PC
	17	9+06.0	59.0' RT	137.21	EOP PVI/AP
	18	9+07.4	59.9' RT	137.16	EOP PVI, MATCH CONC PAD
	19	9+08.4	70.0' RT	136.88	EOP PVI/AP
	20	9+09.3	68.7' RT	136.93	EOP PVI, MATCH CONC PAD
	21	9+09.7	75.9' RT	136.72 ±	TRAIL TIE-IN
	22	9+12.0	48.9' RT	137.56 ±	GRAVEL EDGE

##	#	STATION	OFFSET	ELEV	DESCRIPTION
	23	9+12.3	27.0' RT	137.75	TOP OF BIKE RAMP
	24	9+12.3	33.0' RT	137.84	TOP OF BIKE RAMP
	25	9+14.0	38.5' RT	137.91	TRAIL TRANSITION, PT
	26	9+14.0	46.5' RT	137.67 ±	GRAVEL EDGE
	27	9+14.9	62.2' RT	137.12 ±	GRAVEL EDGE
	28	9+18.3	27.0' RT	137.42	PED CURB, PC
	29	9+19.3	26.1' RT	137.34	BOTTOM OF BIKE RAMP
	30	9+29.2	33.0' RT	137.43	BOTTOM OF BIKE RAMP
	31	9+54.2	33.5' RT	138.51	BEGIN TRANSITION PANEL
	32	9+54.2	38.5' RT	138.58	BEGIN TRANSITION PANEL

**GENERAL NOTES**

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- BOTTOM OF RAMP LOCATIONS SHOWN ARE AT BACK OF DEPRESSED CURB.
- BIKE RAMP SLOPES SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. ALL RAMPS SHALL BE GRADED PER THE POINT TABLES.

**CONSTRUCTION NOTES**

- CEMENT CONC PERPENDICULAR CURB RAMP PER WSDOT STD PLAN F-40.15
- CEMENT CONC BICYCLE RAMP
- CEMENT CONC PEDESTRIAN CURB PER C.O.K. STD PLAN CK-R.17A. CURB TO BE FLUSH WITH SIDEWALK GRADE WHEN ADJACENT TO SIDEWALK
- CEMENT CONC CURB & GUTTER PER C.O.K. STD PLAN CK-R.17
- BICYCLE LEANING RAIL, SEE SHEET 25

**LEGEND**

- CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23
- CEMENT CONC CURB RAMP/LANDING, OVER 4" CSTC
- ASPHALT CONC PAVEMENT PER SECTION D, SHEET 13 FOR THE WEST TRAIL TIE-IN AND SECTION E, SHEET 13 FOR THE EAST TRAIL TIE-IN
- ASPHALT CONC PAVEMENT PER SECTION B AND C, SHEET 12
- 2" HMA OVERLAY
- DETECTABLE WARNING SURFACE PER C.O.K. STD PLAN CK-R25B
- DECORATIVE BRICK STAMPED CEMENT CONC MEDIAN PER DETAIL 2, SHEET 14
- PRECAST TACTILE PAVER PER DETAIL 7, SHEET 14
- GRAVEL OR TRAIL SURFACE PER RESTORATION TABLE, SHEET 14
- SAWCUT LINE PER SITE PREP PLAN SHEET 6
- BUTT JOINT
- EXIST RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- JUNCTION BOX, PER TRAFFIC SIGNAL SHEETS 21-29 AND ILLUMINATION SHEETS 30-31

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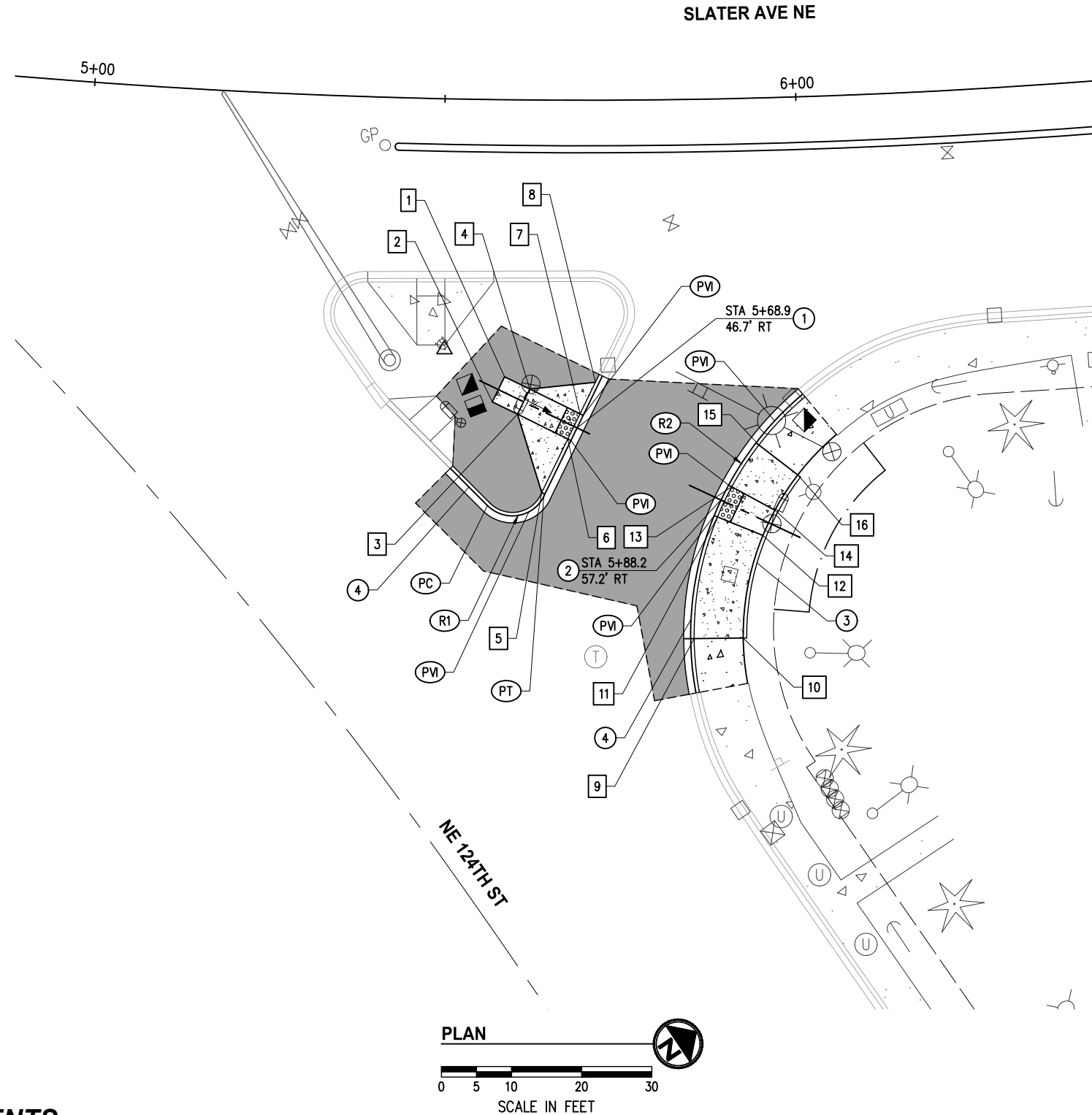
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A. HALL	12-20-24
DRAWN BY:	DATE
E. OLSON	12-20-24
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 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 ROADWAY AND TRAIL CROSSING PLANS  
 TRAIL-EAST SIDE

SHEET:	10 of 33
SCALE:	1"=10'
FILENAME:	RD04

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#	CURVE DATA			
CURVE	DELTA	RAD	LEN	TAN
R1	109°01'00"	5.0'	9.5'	7.0'
PC	STA 5+56.8	57.9' RT	EL 140.18'	
PVI	STA 5+62.4	58.7' RT	EL 140.22'	
PT	STA 5+64.4	56.5' RT	EL 140.08'	
PVI	STA 5+68.0	48.5' RT	EL 139.75'	
PVI	STA 5+69.7	44.9' RT	EL 139.69'	

#	CURVE DATA			
CURVE	DELTA	RAD	LEN	TAN
R2	68°30'20"	45.0'	53.8'	30.6'
PVI	STA 5+87.3	59.4' RT	EL 139.45'	
PVI	STA 5+89.3	55.1' RT	EL 139.40'	
PVI	STA 5+95.7	46.1' RT	EL 138.80'	

#	POINT TABLE			
#	STATION	OFFSET	ELEV	DESCRIPTION
1	5+58.9	39.5' RT	140.33	LANDING CORNER
2	5+57.3	43.1' RT	140.39	LANDING CORNER
3	5+60.8	44.8' RT	140.35	LANDING CORNER
4	5+62.4	41.2' RT	140.29	LANDING CORNER
5	5+64.1	56.0' RT	140.57	TIP OF FLARE
6	5+67.6	48.3' RT	139.75	BOTTOM OF RAMP
7	5+69.3	44.7' RT	139.69	BOTTOM OF RAMP
8	5+71.4	40.2' RT	139.89	TIP OF FLARE
9	5+84.4	76.9' RT	140.92	TOP OF RAMP
10	5+90.8	77.0' RT	141.03	TOP OF RAMP
11	5+87.7	59.6' RT	139.45	LANDING CORNER
12	5+93.8	62.4' RT	139.54	LANDING CORNER
13	5+89.7	55.4' RT	139.40	LANDING CORNER
14	5+95.5	58.8' RT	139.50	LANDING CORNER
15	5+93.5	49.5' RT	139.52	TOP OF RAMP
16	5+98.7	53.9' RT	139.62	TOP OF RAMP

**GENERAL NOTES**

- ALL RAMP AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS, OR TO 15' MAXIMUM RAMP LENGTH WHERE NOTED. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR WHEN FORMS ARE SET AND WHEN CONCRETE IS POURED. ANY GRADING MODIFICATIONS REQUIRED FOR COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
- SEE ALIGNMENT & SURVEY CONTROL PLAN SHEET 3 FOR CONSTRUCTION CENTERLINE GEOMETRY. SEE SITE PREP PLAN SHEET 6 FOR SAWCUT/MATCH LINES. SEE SHEET 15 FOR RESTORATION TABLE. SEE TRAFFIC SIGNAL PLANS SHEETS 21-29 AND ILLUMINATION PLANS SHEETS 30-31 FOR SIGNAL & LIGHTING IMPROVEMENTS.
- CURB RAMP LOCATION SHOWN IS RAMP CENTER AT FACE OF CURB.
- PEDESTRIAN CURB SHALL BE INSTALLED PER C.O.K. STD PLAN CK-R.17A.

**CONSTRUCTION NOTES**

- PERPENDICULAR CURB RAMP PER WSDOT STD PLAN F-40.15
- PARALLEL CURB RAMP PER WSDOT STD PLAN F-40.12
- CEMENT CONCRETE PEDESTRIAN CURB C.O.K. STD PLAN CK-R.17A
- CEMENT CONC CURB & GUTTER PER C.O.K. STD PLAN CK-R.17

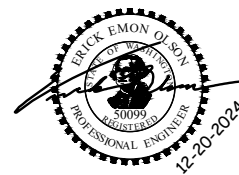
**LEGEND**

- CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23
- CEMENT CONC CURB RAMP AS NOTED, OVER 4" CSTC
- 6" HMA CL. 1/2, OVER 4" CSTC
- DETECTABLE WARNING SURFACE PER C.O.K. STD PLAN CK-R25B
- SAWCUT LINE PER SITE PREP PLAN SHEET 6
- EXIST RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- JUNCTION BOX, PER TRAFFIC SIGNAL SHEETS 21-29 AND ILLUMINATION SHEETS 30-31

**BID DOCUMENTS**

**CITY OF KIRKLAND**  
 DEPARTMENT OF PUBLIC WORKS  
 123 FIFTH AVENUE KIRKLAND, WA 98033  
 (425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



**KPG PSOMAS**  
 Tacoma  
 2502 Jefferson Avenue  
 Tacoma, WA 98402 253.627.0720  
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E. OLSON	12-20-24
DESIGNED BY:	DATE
A. HALL	12-20-24
DRAWN BY:	DATE
E. OLSON	12-20-24
CHECKED BY:	DATE

CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 INTERSECTION PLAN  
 NE 124TH ST AND 132ND AVE NE

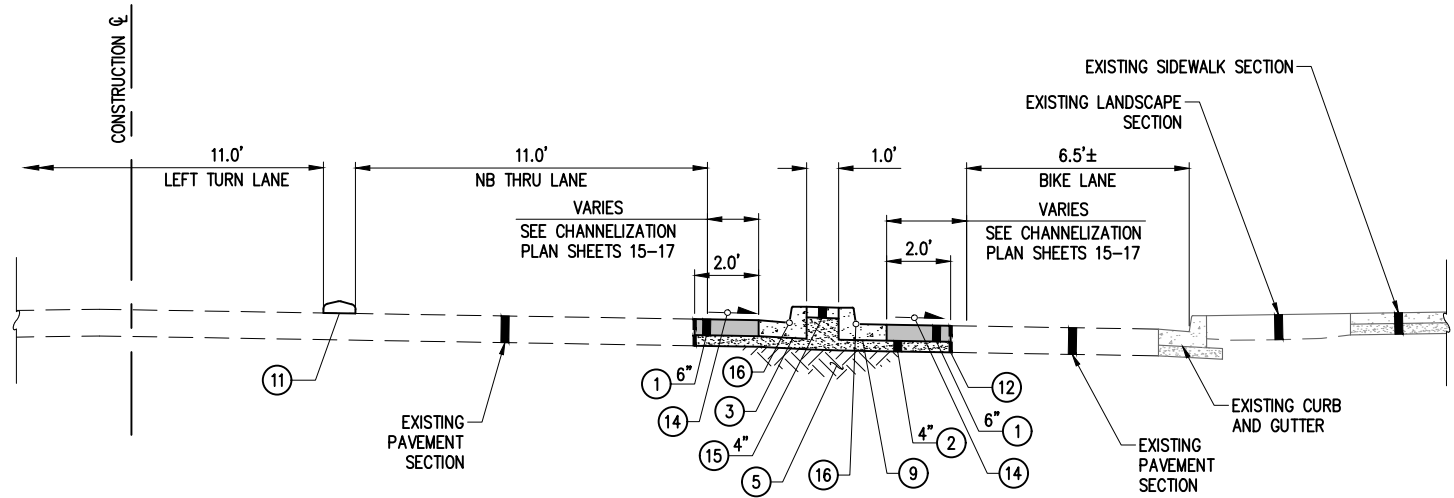
SHEET:	11 OF 33
SCALE:	1"=10'
FILENAME:	IP01

**SECTION GENERAL NOTES**

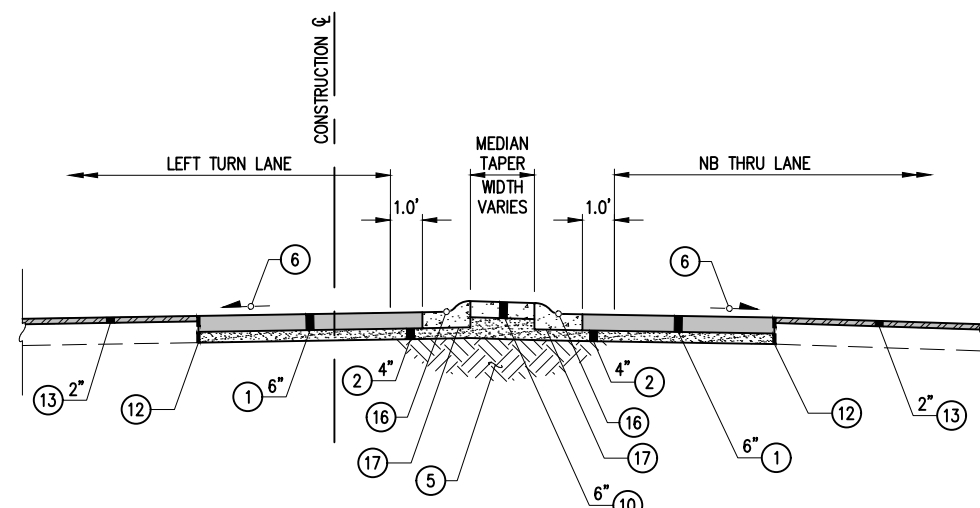
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**SECTION CONSTRUCTION NOTES**

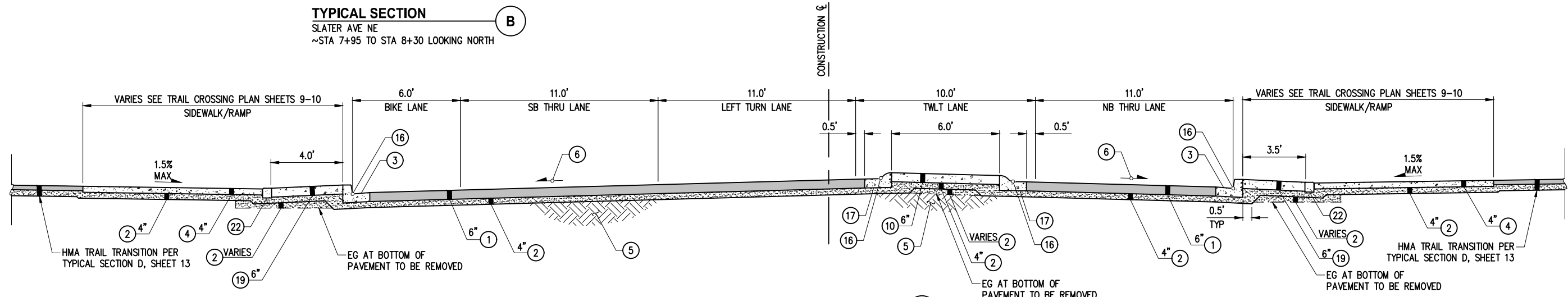
- ① HMA CL 1/2" PG 58H-22
- ② CRUSHED SURFACING TOP COURSE
- ③ CEMENT CONC. TRAFFIC CURB & GUTTER PER C.O.K. STD PLAN CK-R.17
- ④ CEMENT CONC. SIDEWALK PER C.O.K. STD CK-R.23
- ⑤ COMPACTED SUBGRADE
- ⑥ ESTABLISH CROWN WITH 2%± CROSS SLOPE. SEE ROADWAY PLAN SHEET 7 AND TRAIL CROSSING PLAN SHEETS 9-10 FOR GRADING
- ⑨ CEMENT CONC. TRAFFIC CURB & GUTTER PER C.O.K. STD PLAN CK-R.17 WITH 2% REVERSE SLOPE GUTTER PAN
- ⑩ STAMPED CEMENT CONC. MEDIAN PER DETAILS SHEET 14 AND ROADWAY PLAN SHEET 7
- ⑪ MOUNTABLE MEDIAN CURB PER C.O.K. STD PLAN CK-R.19B, SEE ROADWAY PLAN SHEET 7
- ⑫ FULL DEPTH SAWCUT, SEE SITE PREP PLAN SHEET 6 FOR LOCATION
- ⑬ GRIND AND OVERLAY
- ⑭ MATCH EXISTING ROADWAY SLOPE
- ⑮ CEMENT CONC. MEDIAN PER DETAIL 6, SHEET 14
- ⑯ HORIZONTAL AND VERTICAL CONTROL POINT
- ⑰ ROUNDABOUT CEMENT CONC. CURB AND GUTTER TYPE 2 PER WSDOT STD PLAN F-10.18 WITH 2% REVERSE SLOPE
- ⑱ STAMPED CEMENT CONC. PER DETAIL 2, SHEET 14
- ⑳ CEMENT CONC. PEDESTRIAN CURB PER C.O.K. STD PLAN CK-R.17A



**TYPICAL SECTION A**  
SLATER AVE NE  
~STA 6+45 TO STA 7+60 LOOKING NORTH



**TYPICAL SECTION B**  
SLATER AVE NE  
~STA 7+95 TO STA 8+30 LOOKING NORTH



**TYPICAL SECTION C**  
SLATER AVE NE/132ND AVE NE AND TRAIL CROSSING  
~STA 8+55 TO STA 9+15 LOOKING NORTH

**BID DOCUMENTS**

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CITY OF KIRKLAND  
132ND AVE NE & SLATER AVE CROSSING  
NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
MISCELLANEOUS ROADWAY SECTIONS  
TYPICAL SECTIONS

SHEET:	12 OF 33
SCALE:	NTS
FILENAME:	MD01

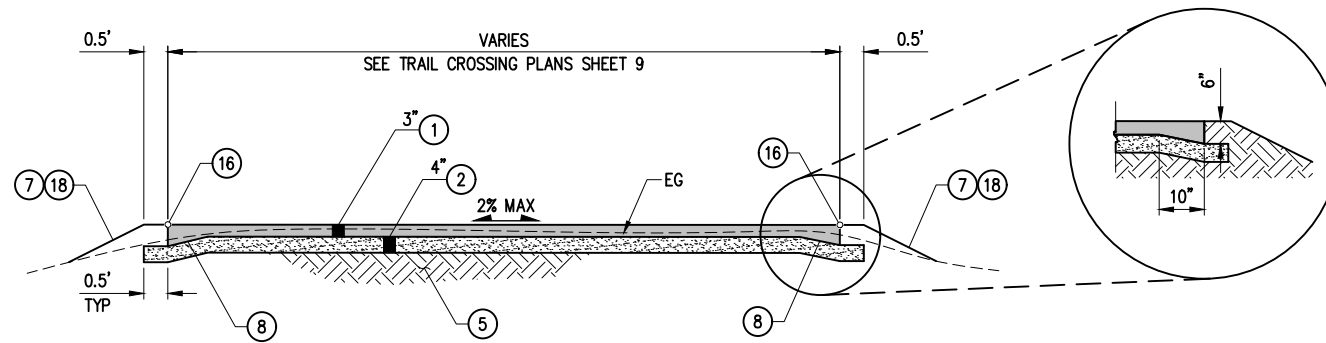
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**SECTION GENERAL NOTES**

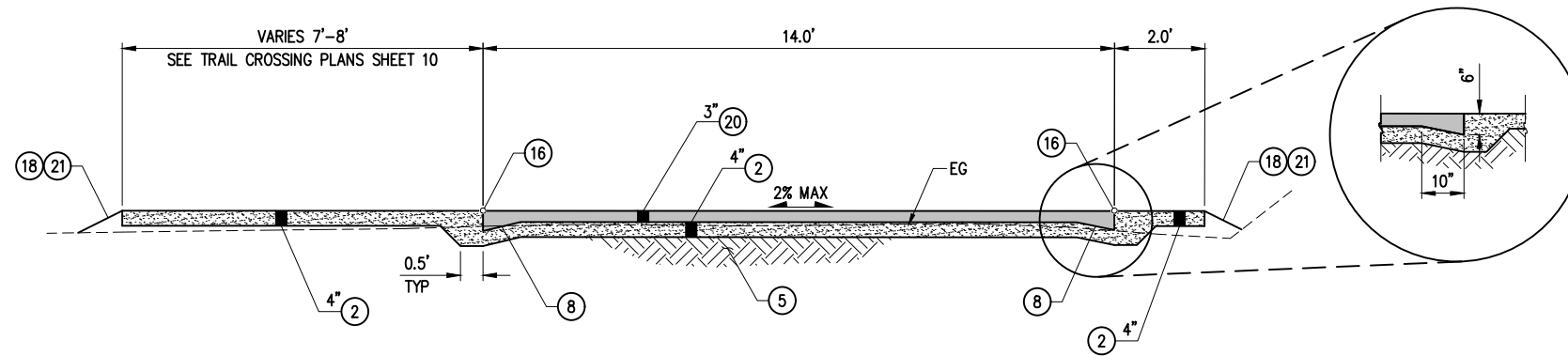
1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS.

**SECTION CONSTRUCTION NOTES**

- ① HMA CL 1/2" PG 58H-22
- ② CRUSHED SURFACING TOP COURSE
- ⑤ COMPACTED SUBGRADE
- ⑦ 2:1 MAX DAYLIGHT SLOPE
- ⑧ THICKENED ASPHALT EDGE
- ⑩ HORIZONTAL AND VERTICAL CONTROL POINT
- ⑱ SEE RESTORATION TABLE, SHEET 14, FOR RESTORATION OF UNIMPROVED SLOPED AREAS
- ⑳ HMA CL 3/8" PG 58H-22
- ㉑ 3:1 MAX DAYLIGHT SLOPE



**TYPICAL SECTION D**  
 CROSS KIRKLAND CORRIDOR HMA TRAIL TRANSITION  
 LOOKING EAST

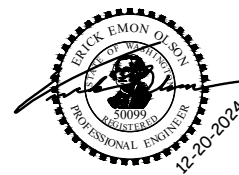


**TYPICAL SECTION E**  
 EASTRAIL HMA TRAIL TRANSITION  
 LOOKING EAST

**BID DOCUMENTS**

**CITY OF KIRKLAND**  
 DEPARTMENT OF PUBLIC WORKS  
 123 FIFTH AVENUE KIRKLAND, WA 98033  
 (425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



**KPG PSOMAS**  
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 2502 Jefferson Avenue  
 Tacoma, WA 98402 253.627.0720  
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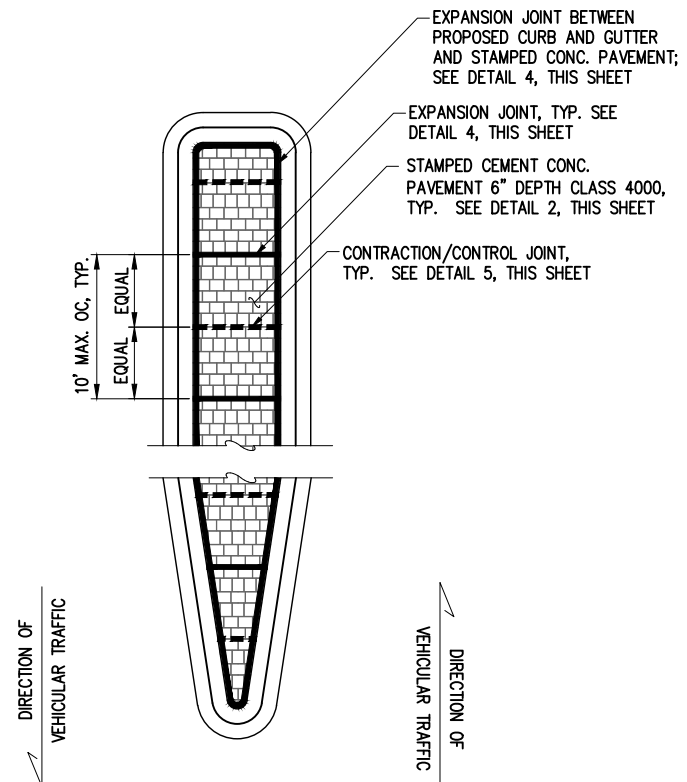
E. OLSON	12-20-24
DESIGNED BY:	DATE
A. HALL	12-20-24
DRAWN BY:	DATE
E. OLSON	12-20-24
CHECKED BY:	DATE

CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 MISCELLANEOUS ROADWAY SECTIONS  
 TYPICAL SECTIONS

SHEET:	13 OF 33
SCALE:	NTS
FILENAME:	MD02

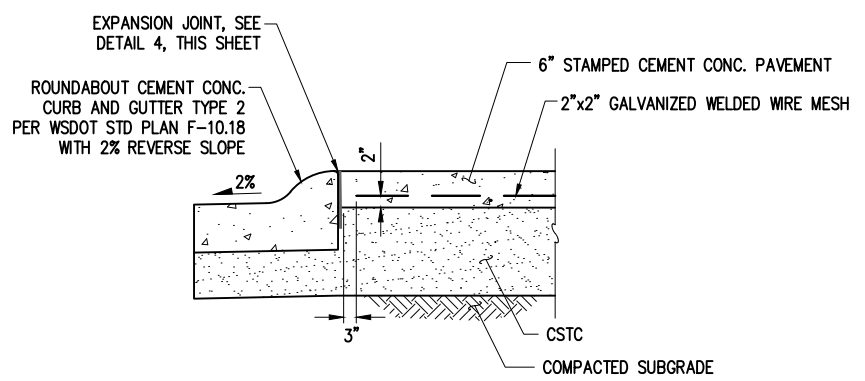
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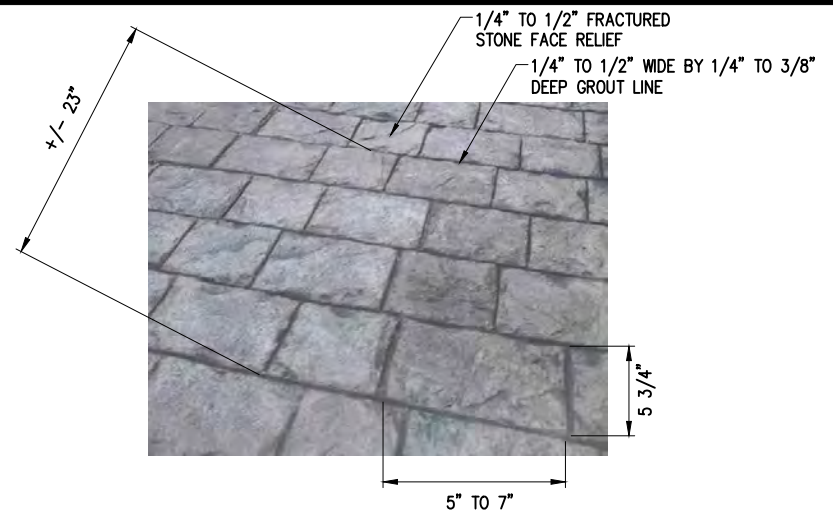


- NOTES:**
1. CONCRETE STAMPING TOOL FOR STAMPED CEMENT CONC. TREATMENT SHALL BE PROVIDED TO THE CITY UPON COMPLETION OF THIS PROJECT.
  2. STAMPED CEMENT CONC. PATTERN AND COLOR SHALL BE APPROVED BY CITY PRIOR TO INSTALLATION, SEE SPECIAL PROVISIONS.
  3. CONTRACTION/CONTROL AND EXPANSION JOINTS SHALL BE 10 FEET MAX. O.C.

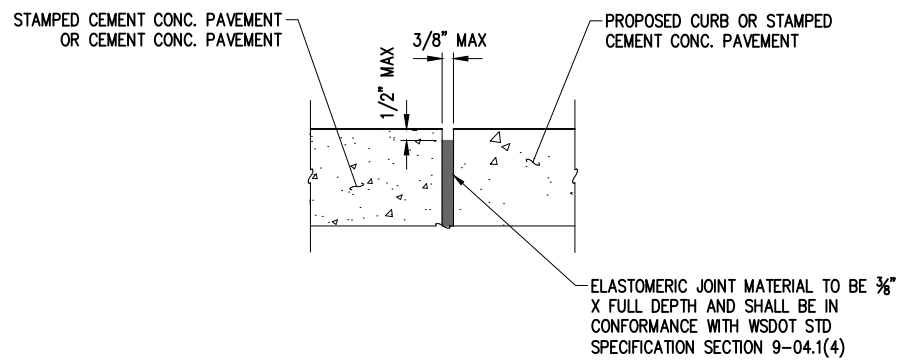
**TYPICAL CENTER MEDIAN DETAIL** 1  
NTS



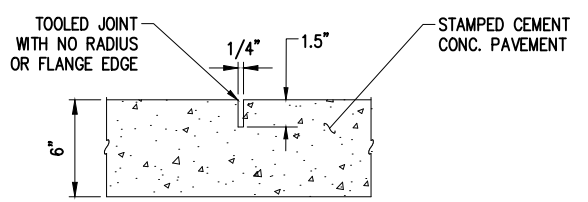
**STAMPED CEMENT CONC. PAVEMENT DETAIL** 2  
NTS



**STAMPED CEMENT CONC. PAVEMENT PATTERN DETAIL** 3  
NTS

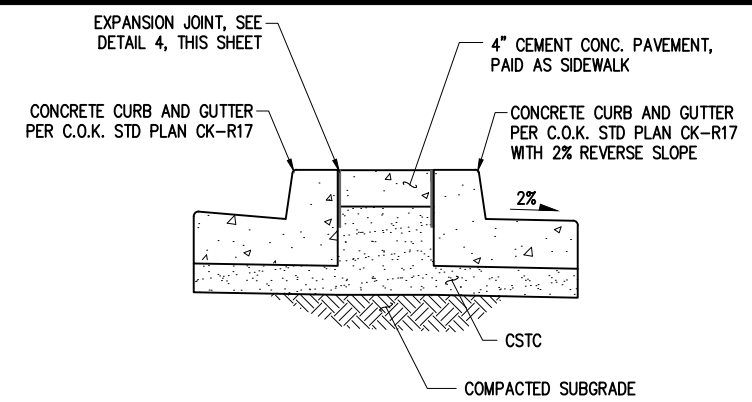


**EXPANSION JOINT DETAIL** 4  
NTS

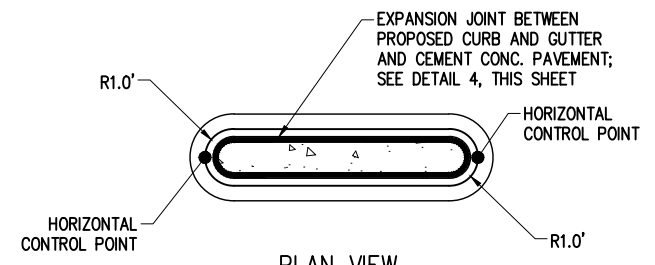


- NOTES:**
1. PROVIDE CONTRACTION/CONTROL JOINTS WHERE SHOWN ON LAYOUT DETAIL, SEE DETAIL 1, THIS SHEET.
  2. CONTRACTION/CONTROL JOINTS SHALL BE FORMED IN CONFORMANCE WITH WSDOT STD SPECIFICATION SECTION 5-05.3(8)A.

**CONTRACTION AND CONTROL JOINT DETAIL** 5  
NTS

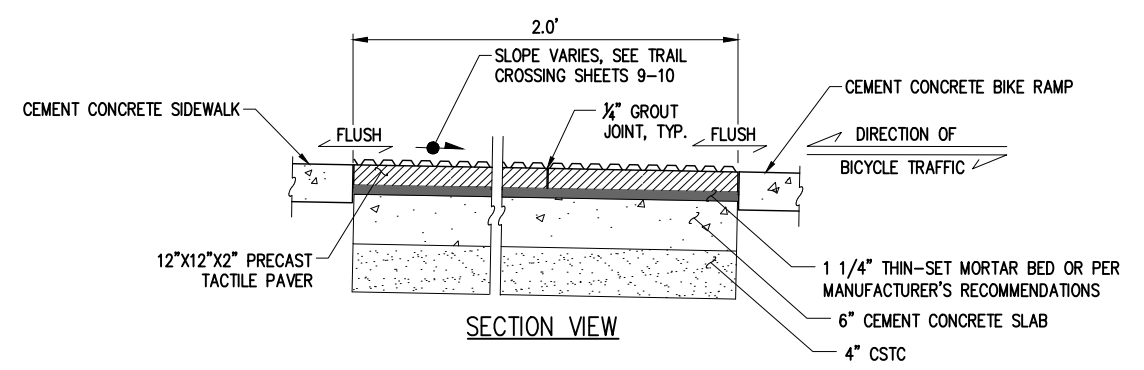


**SECTION VIEW**

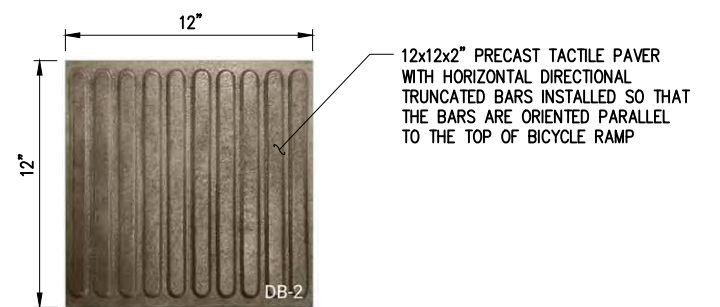


**PLAN VIEW**

**CEMENT CONC. MEDIAN DETAIL** 6  
NTS



**SECTION VIEW**



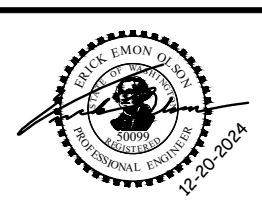
**PLAN VIEW**

**PRECAST TACTILE PAVER DETAIL** 7  
NTS

**BID DOCUMENTS**

**CITY OF KIRKLAND**  
DEPARTMENT OF PUBLIC WORKS  
123 FIFTH AVENUE KIRKLAND, WA 98033  
(425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



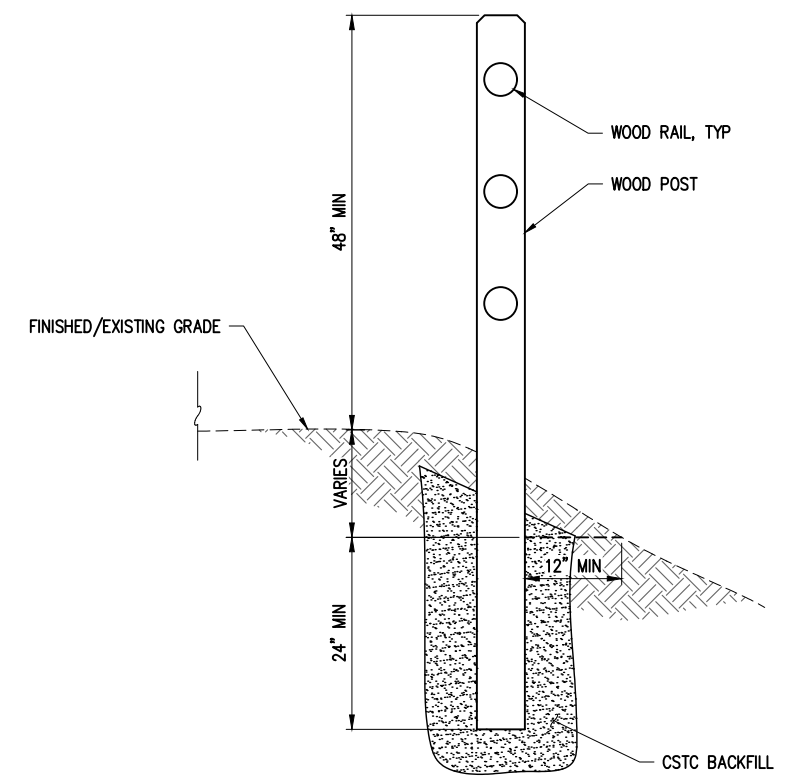
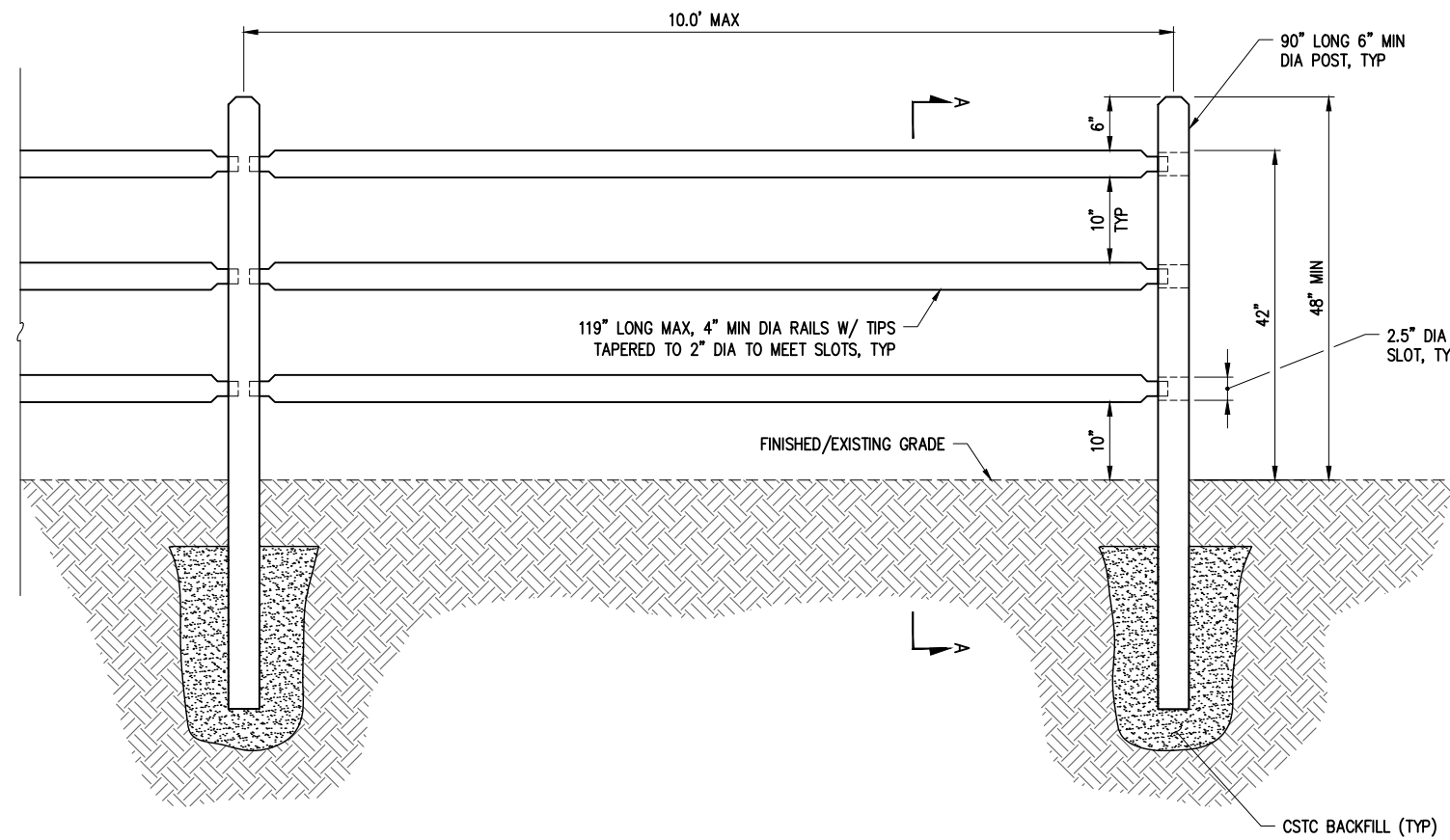
**KPG PSOMAS**  
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2502 Jefferson Avenue  
Tacoma, WA 98402 253.627.0720  
Seattle | Wenatchee | KPG.com



E. OLSON	12-20-24
DESIGNED BY:	DATE
A. HALL	12-20-24
DRAWN BY:	DATE
E. OLSON	12-20-24
CHECKED BY:	DATE

CITY OF KIRKLAND  
132ND AVE NE & SLATER AVE CROSSING  
NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
MISCELLANEOUS ROADWAY DETAILS

SHEET:	14 OF 33
SCALE:	NTS
FILENAME:	MD03



**WOOD SPLIT RAIL FENCE DETAIL** 8  
NTS

RESTORATION TABLE	
EXISTING CONDITION	RESTORATION
WETLAND BUFFER/UNIMPROVED AREA	HYDROSEED WITH NATIVE EROSION CONTROL MIX
LAWN AREA	SEEDED LAWN MIX OVER 4" TOPSOIL TYPE A
LANDSCAPE AREAS	2" BARK MULCH OVER 4" TOPSOIL TYPE A
GRAVEL SHOULDER	4" CSTC
TRAIL SURFACE	REFER TO SPECIAL PROVISIONS SECTION 4-04

- NOTES:**
- FINISH GRADE SHALL BE SMOOTH AND CONSISTENT WITH EXISTING GRADE.
  - SLOPES SHALL NOT EXCEED 2:1 FOR THE CROSS KIRKLAND CORRIDOR TRAIL TRANSITION OR 3:1 FOR THE EASTRAIL TRAIL TRANSITION.
  - RESTORE TO CLEARING AND GRUBBING LIMITS AS SHOWN ON THE SITE PREPARATION PLAN SHEET 6.
  - INCREASE DEPTH OF CSTC/TOPSOIL AS REQUIRED TO BRING FINISHED GRADE FLUSH WITH ADJACENT SURFACE AS SHOWN ON TYPICAL SECTIONS SHEET 12.

**BID DOCUMENTS**

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DEPARTMENT OF PUBLIC WORKS  
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2502 Jefferson Avenue  
Tacoma, WA 98402 253.627.0720  
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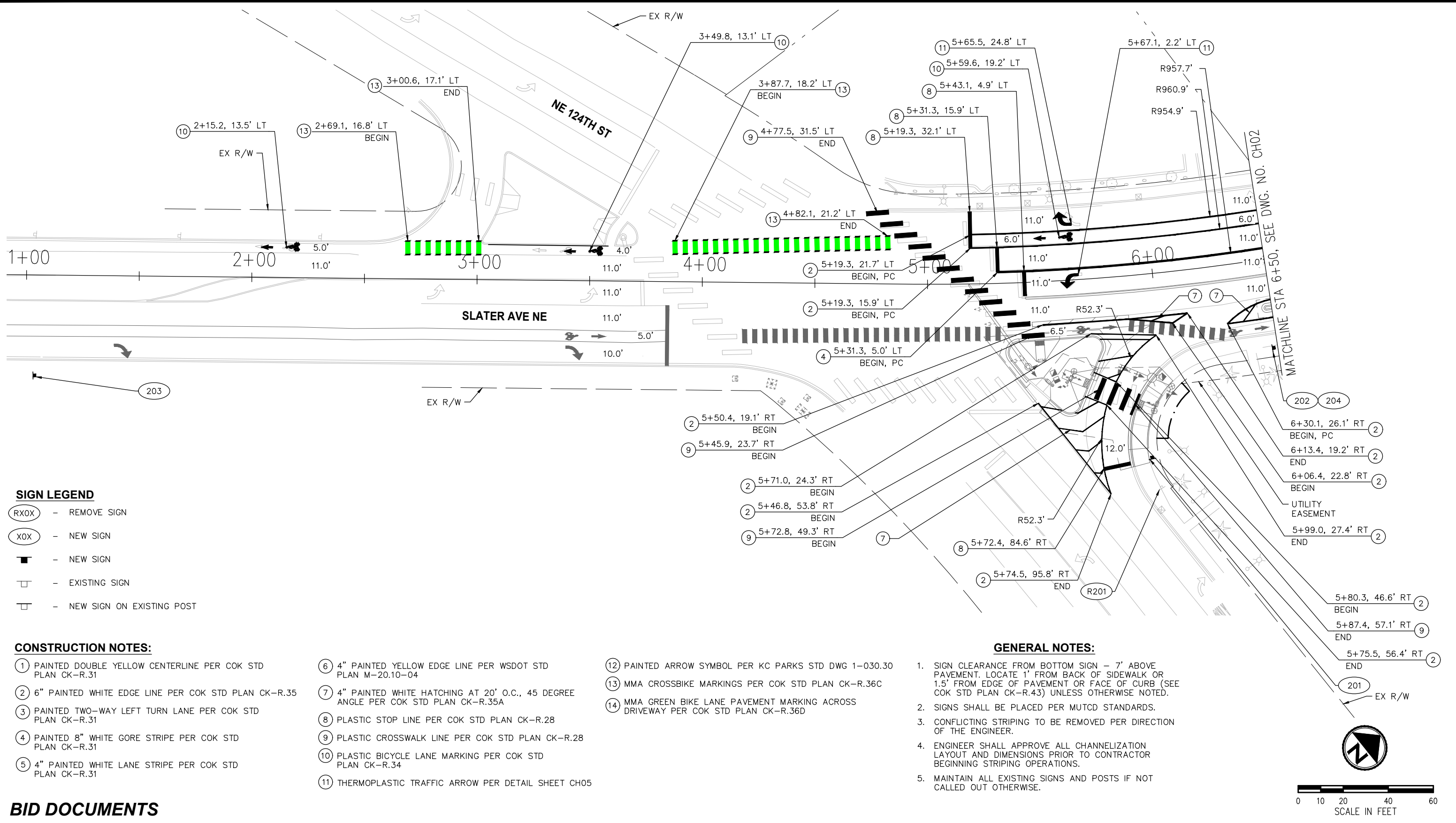
E. OLSON	12-20-24
DESIGNED BY:	DATE
A. HALL	12-20-24
DRAWN BY:	DATE
E. OLSON	12-20-24
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CITY OF KIRKLAND  
132ND AVE NE & SLATER AVE CROSSING  
NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
MISCELLANEOUS ROADWAY DETAILS

SHEET:	15 of 33
SCALE:	NTS
FILENAME:	MD04

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- SIGN LEGEND**
- RXOX - REMOVE SIGN
  - XOX - NEW SIGN
  - NEW SIGN
  - EXISTING SIGN
  - NEW SIGN ON EXISTING POST

**CONSTRUCTION NOTES:**

- ① PAINTED DOUBLE YELLOW CENTERLINE PER COK STD PLAN CK-R.31
- ② 6" PAINTED WHITE EDGE LINE PER COK STD PLAN CK-R.35
- ③ PAINTED TWO-WAY LEFT TURN LANE PER COK STD PLAN CK-R.31
- ④ PAINTED 8" WHITE GORE STRIPE PER COK STD PLAN CK-R.31
- ⑤ 4" PAINTED WHITE LANE STRIPE PER COK STD PLAN CK-R.31
- ⑥ 4" PAINTED YELLOW EDGE LINE PER WSDOT STD PLAN M-20.10-04
- ⑦ 4" PAINTED WHITE HATCHING AT 20' O.C., 45 DEGREE ANGLE PER COK STD PLAN CK-R.35A
- ⑧ PLASTIC STOP LINE PER COK STD PLAN CK-R.28
- ⑨ PLASTIC CROSSWALK LINE PER COK STD PLAN CK-R.28
- ⑩ PLASTIC BICYCLE LANE MARKING PER COK STD PLAN CK-R.34
- ⑪ THERMOPLASTIC TRAFFIC ARROW PER DETAIL SHEET CH05
- ⑫ PAINTED ARROW SYMBOL PER KC PARKS STD DWG 1-030.30
- ⑬ MMA CROSSBIKE MARKINGS PER COK STD PLAN CK-R.36C
- ⑭ MMA GREEN BIKE LANE PAVEMENT MARKING ACROSS DRIVEWAY PER COK STD PLAN CK-R.36D

**GENERAL NOTES:**

1. SIGN CLEARANCE FROM BOTTOM SIGN - 7' ABOVE PAVEMENT. LOCATE 1' FROM BACK OF SIDEWALK OR 1.5' FROM EDGE OF PAVEMENT OR FACE OF CURB (SEE COK STD PLAN CK-R.43) UNLESS OTHERWISE NOTED.
2. SIGNS SHALL BE PLACED PER MUTCD STANDARDS.
3. CONFLICTING STRIPING TO BE REMOVED PER DIRECTION OF THE ENGINEER.
4. ENGINEER SHALL APPROVE ALL CHANNELIZATION LAYOUT AND DIMENSIONS PRIOR TO CONTRACTOR BEGINNING STRIPING OPERATIONS.
5. MAINTAIN ALL EXISTING SIGNS AND POSTS IF NOT CALLED OUT OTHERWISE.

**BID DOCUMENTS**

**CITY OF KIRKLAND**  
 DEPARTMENT OF PUBLIC WORKS  
 123 FIFTH AVENUE KIRKLAND, WA 98033  
 (425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



**DKS**  
 719 Second Ave, Suite 1250  
 Seattle, WA 98104  
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 www.dksassociates.com

T. CHUDGAR	12-06-24
DESIGNED BY:	DATE
C. TOWER	12-06-24
DRAWN BY:	DATE
J. LIU	12-06-24
CHECKED BY:	DATE

CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 CHANNELIZATION PLAN

SHEET: 16 OF 33  
 SCALE: 1"=40'  
 FILENAME: CH01



**CONSTRUCTION NOTES:**

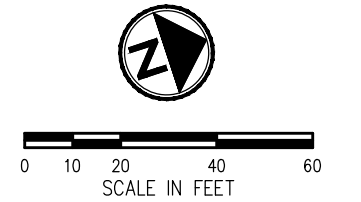
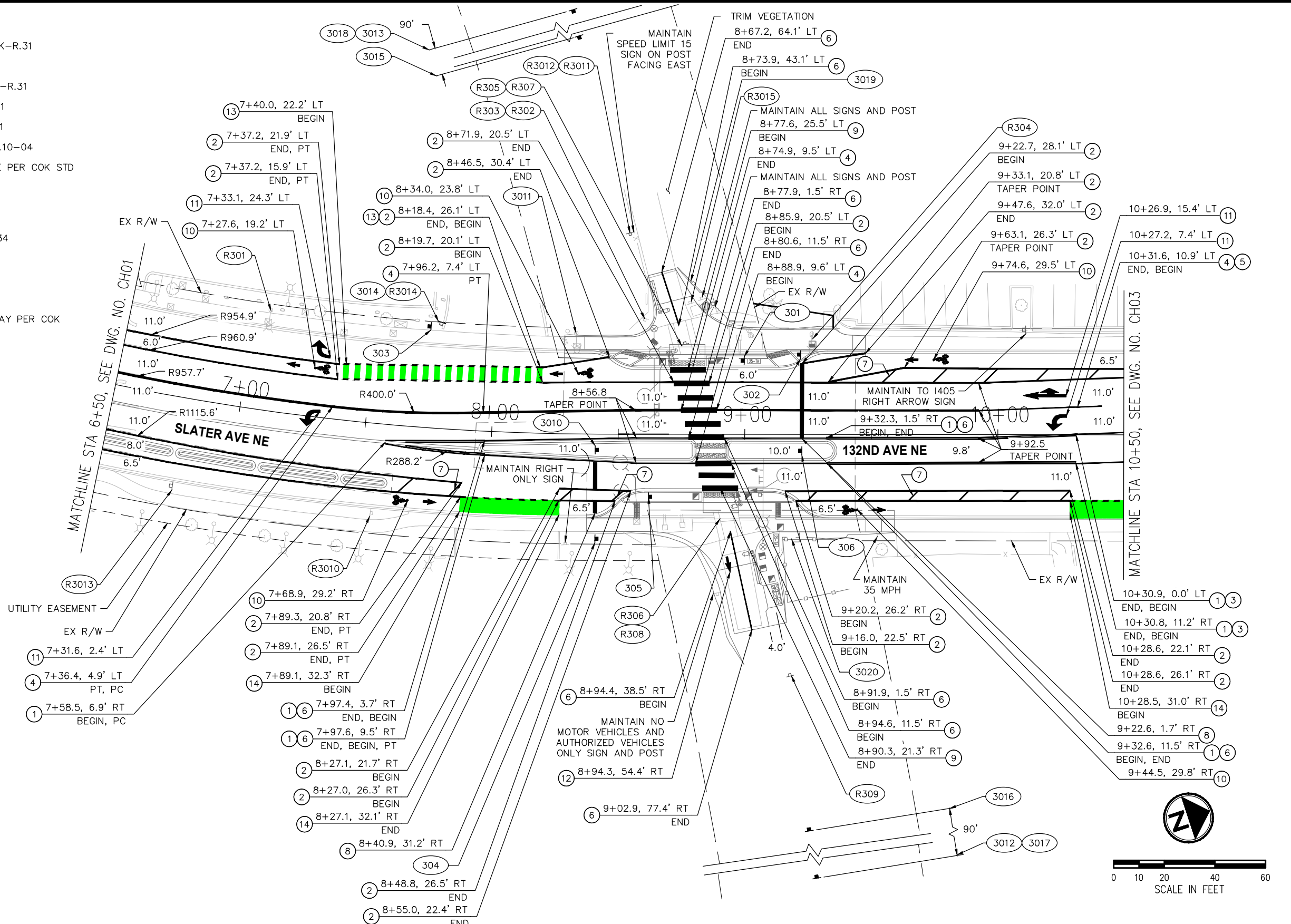
- ① PAINTED DOUBLE YELLOW CENTERLINE PER COK STD PLAN CK-R.31
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- ⑫ PAINTED ARROW SYMBOL PER KC PARKS STD DWG 1-030.30
- ⑬ MMA CROSSBIKE MARKINGS PER COK STD PLAN CK-R.36C
- ⑭ MMA GREEN BIKE LANE PAVEMENT MARKING ACROSS DRIVEWAY PER COK STD PLAN CK-R.36D

**SIGN LEGEND**

- REMOVE SIGN
- NEW SIGN
- NEW SIGN
- EXISTING SIGN
- NEW SIGN ON EXISTING POST

**GENERAL NOTES:**

- 1. SIGN CLEARANCE FROM BOTTOM SIGN - 7' ABOVE PAVEMENT. LOCATE 1' FROM BACK OF SIDEWALK OR 1.5' FROM EDGE OF PAVEMENT OR FACE OF CURB (SEE COK STD PLAN CK-R.43) UNLESS OTHERWISE NOTED.
- 2. SIGNS SHALL BE PLACED PER MUTCD STANDARDS.
- 3. CONFLICTING STRIPING TO BE REMOVED PER DIRECTION OF THE ENGINEER.
- 4. ENGINEER SHALL APPROVE ALL CHANNELIZATION LAYOUT AND DIMENSIONS PRIOR TO CONTRACTOR BEGINNING STRIPING OPERATIONS.
- 5. MAINTAIN ALL EXISTING SIGNS AND POSTS IF NOT CALLED OUT OTHERWISE.



**BID DOCUMENTS**

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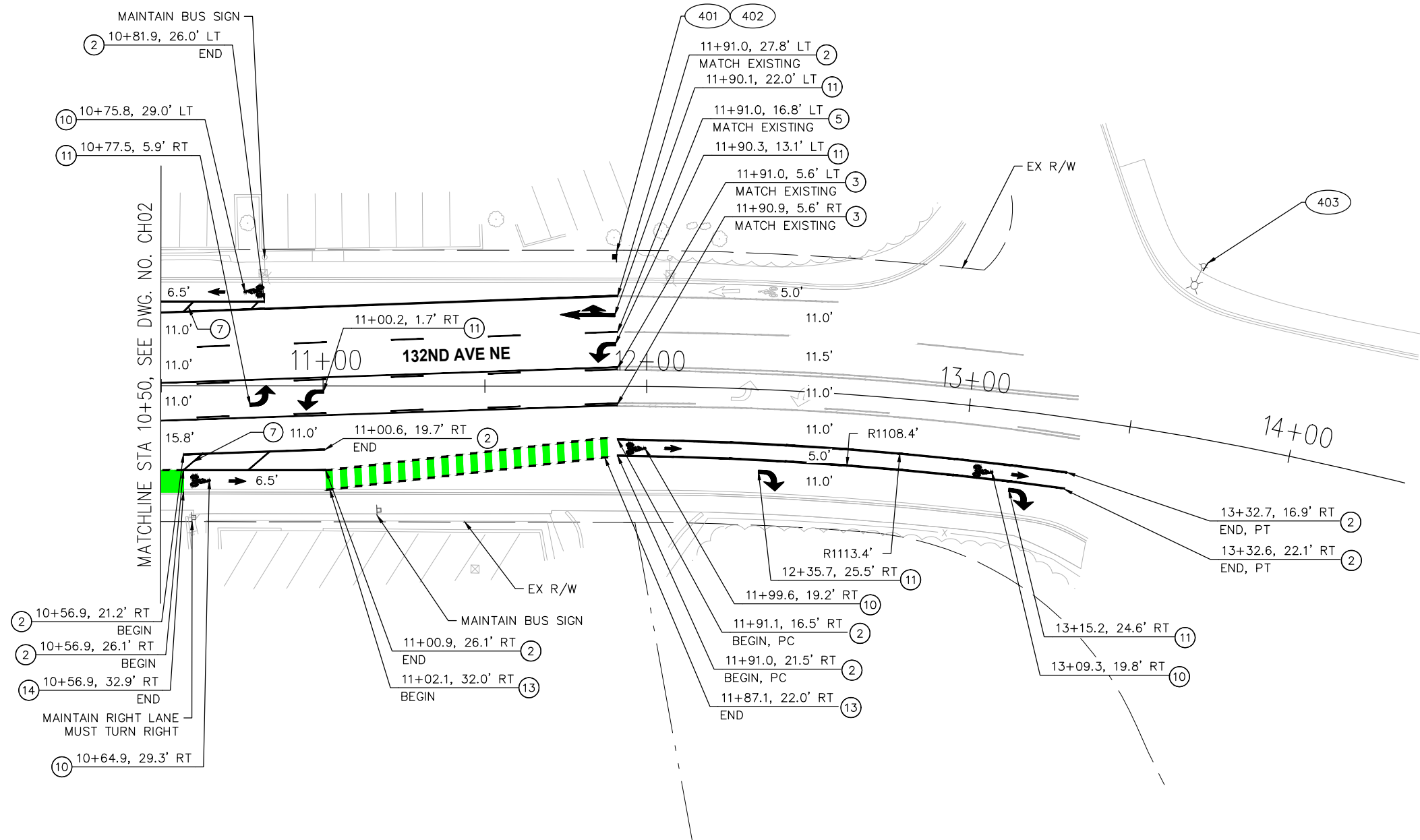
T. CHUDGAR	12-06-24
DESIGNED BY:	DATE
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CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 CHANNELIZATION PLAN

SHEET:	17 OF 33
SCALE:	1"=40'
FILENAME:	CH02

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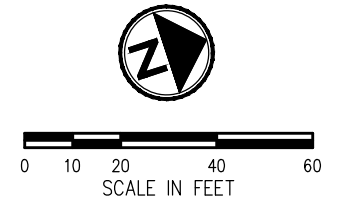
- SIGN LEGEND**
- RXOX - REMOVE SIGN
  - XOX - NEW SIGN
  - NEW SIGN
  - EXISTING SIGN
  - NEW SIGN ON EXISTING POST

**CONSTRUCTION NOTES:**

- ① PAINTED DOUBLE YELLOW CENTERLINE PER COK STD PLAN CK-R.31
- ② 6" PAINTED WHITE EDGE LINE PER COK STD PLAN CK-R.35
- ③ PAINTED TWO-WAY LEFT TURN LANE PER COK STD PLAN CK-R.31
- ④ PAINTED 8" WHITE GORE STRIPE PER COK STD PLAN CK-R.31
- ⑤ 4" PAINTED WHITE LANE STRIPE PER COK STD PLAN CK-R.31
- ⑥ 4" PAINTED YELLOW EDGE LINE PER WSDOT STD PLAN M-20.10-04
- ⑦ 4" PAINTED WHITE HATCHING AT 20' O.C., 45 DEGREE ANGLE PER COK STD PLAN CK-R.35A
- ⑧ PLASTIC STOP LINE PER COK STD PLAN CK-R.28
- ⑨ PLASTIC CROSSWALK LINE PER COK STD PLAN CK-R.28
- ⑩ PLASTIC BICYCLE LANE MARKING PER COK STD PLAN CK-R.34
- ⑪ THERMOPLASTIC TRAFFIC ARROW PER DETAIL SHEET CH05
- ⑫ PAINTED ARROW SYMBOL PER KC PARKS STD DWG 1-030.30
- ⑬ MMA CROSSBIKE MARKINGS PER COK STD PLAN CK-R.36C
- ⑭ MMA GREEN BIKE LANE PAVEMENT MARKING ACROSS DRIVEWAY PER COK STD PLAN CK-R.36D

**GENERAL NOTES:**

1. SIGN CLEARANCE FROM BOTTOM SIGN - 7' ABOVE PAVEMENT. LOCATE 1' FROM BACK OF SIDEWALK OR 1.5' FROM EDGE OF PAVEMENT OR FACE OF CURB (SEE COK STD PLAN CK-R.43) UNLESS OTHERWISE NOTED.
2. SIGNS SHALL BE PLACED PER MUTCD STANDARDS.
3. CONFLICTING STRIPING TO BE REMOVED PER DIRECTION OF THE ENGINEER.
4. ENGINEER SHALL APPROVE ALL CHANNELIZATION LAYOUT AND DIMENSIONS PRIOR TO CONTRACTOR BEGINNING STRIPING OPERATIONS.
5. MAINTAIN ALL EXISTING SIGNS AND POSTS IF NOT CALLED OUT OTHERWISE.



**BID DOCUMENTS**

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 (425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



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DESIGNED BY:	DATE
C. TOWER	12-06-24
DRAWN BY:	DATE
J. LIU	12-06-24
CHECKED BY:	DATE

CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 CHANNELIZATION PLAN

SHEET:	18 OF 33
SCALE:	1"=40'
FILENAME:	CH03

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SIGN SCHEDULE							
SIGN NO.	SIGN CODE	STATION	OFFSET	DESCRIPTION	SIZE		REMARKS
					X (IN)	Y (IN)	
201	R10-6	5+92	81.3' RT	STOP HERE ON RED	24	36	INSTALL ON NEW POST
202	W11-15	6+48	39.6' RT	TRAIL CROSSING	36	36	INSTALL ON NEW POST
203	W23-2	1+08	N/A	NEW TRAFFIC PATTERN AHEAD	36	36	INSTALL ON NEW WOOD POST BEHIND SIDEWALK, NOTE 1
204	W16-9P	6+48	39.6' RT	AHEAD	24	12	INSTALL UNDER SIGN 202
301	R9-6	8+99	29.1' LT	BIKES YIELD TO PEDS	12	18	INSTALL ON NEW POST
302	R10-6	9+22	31.5' LT	STOP HERE ON RED	24	36	INSTALL ON NEW POST
303	R3-8 (MOD)	7+73	40.0' LT	LANE CONTROL	30	48	INSTALL ON NEW POST
304	R10-6	8+42	41.4' RT	STOP HERE ON RED	24	36	INSTALL ON NEW POST
305	R9-6	8+63	24.7' RT	BIKES YIELD TO PEDS	12	18	INSTALL ON NEW POST
306	R10-6 (MOD)	9+22	6.5' RT	STOP HERE ON RED	24	36	INSTALL ON NEW POST
3010	R10-6 (MOD)	8+42	6.2' RT	STOP HERE ON RED	24	36	INSTALL ON NEW POST
3011	R4-4	8+33	39.8' LT	BEGIN RIGHT TURN LANE YIELD TO BIKES	36	30	INSTALL ON EXISTING LIGHT POLE
3012	W3-3	SEE PLAN VIEW		SIGNAL WARNING	18	18	INSTALL ON NEW POST
3013	W3-3	SEE PLAN VIEW		SIGNAL WARNING	18	18	INSTALL ON NEW POST
3014	R3-1	7+77	41.98' LT	NO RIGHT TURN	30	36	INSTALL ON EXISTING SIGN WITH E3014
3015	R2-1	SEE PLAN VIEW		SPEED LIMIT 15MPH	18	24	INSTALL ON NEW POST
3016	R2-1	SEE PLAN VIEW		SPEED LIMIT 15MPH	18	24	INSTALL ON NEW POST
3017	W16-9P	SEE PLAN VIEW		AHEAD	24	12	INSTALL UNDER SIGN 3012
3018	W16-9P	SEE PLAN VIEW		AHEAD	24	12	INSTALL UNDER SIGN 3013
3019	SP	SEE PLAN VIEW		SEE LEGEND	12	18	INSTALL TO PROPOSED WOOD FENCE, CITY TO PROVIDE IMAGE FILE, COLORS SHALL BE BLUE ON WHITE
3020	SP	SEE PLAN VIEW		SEE LEGEND	12	18	INSTALL TO PROPOSED WOOD FENCE, CITY TO PROVIDE IMAGE FILE, COLORS SHALL BE BLUE ON WHITE
401	W11-15	11+91	39.9' LT	TRAIL CROSSING	36	36	INSTALL ON NEW POST
402	W16-9P			AHEAD	24	12	INSTALL UNDER SIGN 401
403	W23-2	13+64	52.8' LT	NEW TRAFFIC PATTERN AHEAD	36	36	INSTALL ON EXISTING LIGHT POLE, NOTE 2
R201		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN AND POST
R301		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN AND MAINTAIN EXISTING POLE
R302		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN AND MAINTAIN EXISTING POLE
R303		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN AND MAINTAIN EXISTING POLE
R304		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN FROM EXISTING LIGHT POLE
R305		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN FROM FENCE AND SALVAGE TO RESPECTIVE JURISDICTION
R306		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN FROM FENCE AND SALVAGE TO RESPECTIVE JURISDICTION
R307		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN FROM FENCE AND SALVAGE TO RESPECTIVE JURISDICTION
R308		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN FROM FENCE AND SALVAGE TO RESPECTIVE JURISDICTION

SIGN SCHEDULE							
SIGN NO.	SIGN CODE	STATION	OFFSET	DESCRIPTION	SIZE		REMARKS
					X (IN)	Y (IN)	
R309		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN AND POST
R3010		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN AND POST
R3011		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN, RETAIN SPEED LIMIT 15 SIGN AND POST FACING EAST
R3012		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN
R3013		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN AND POST
R3014		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN, MAINTAIN EXISTING POST FOR NEW SIGN 3014
R3015		SEE PLAN VIEW		SEE LEGEND			REMOVE SIGN AND WOOD POST

NOTE 1: CONTRACTOR TO REMOVE SIGN AND WOOD POST 6 MONTHS AFTER SUBSTANTIAL COMPLETION.

NOTE 2: CONTRACTOR TO REMOVE SIGN 6 MONTHS AFTER SUBSTANTIAL COMPLETION.

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CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 CHANNELIZATION DETAILS

SHEET:	19 of 33
SCALE:	NTS
FILENAME:	CH04

**SIGN LEGEND**

**GENERAL NOTES:**  
1. NEW SIGN AND POST PER CK-R.43.

**BID DOCUMENTS**

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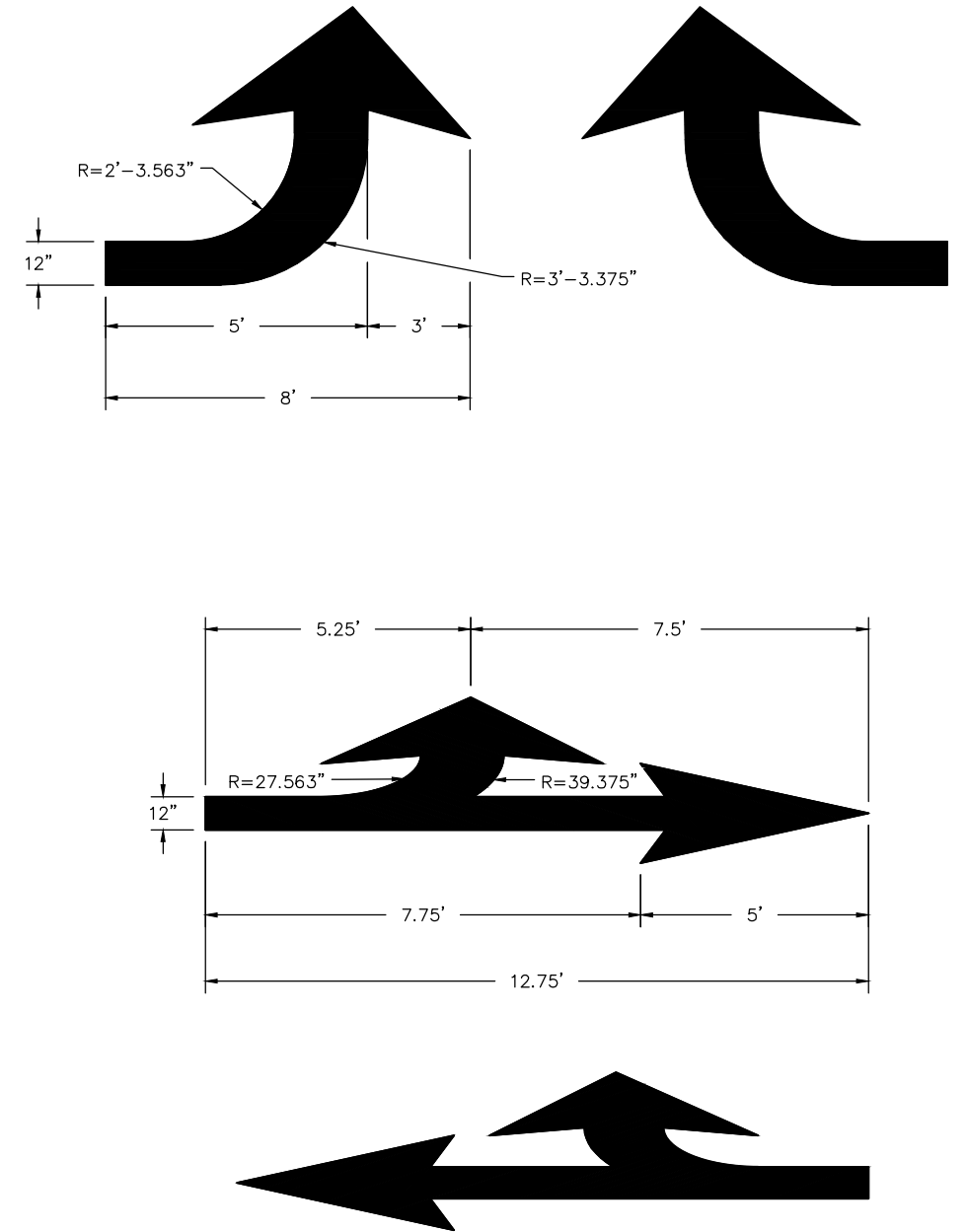


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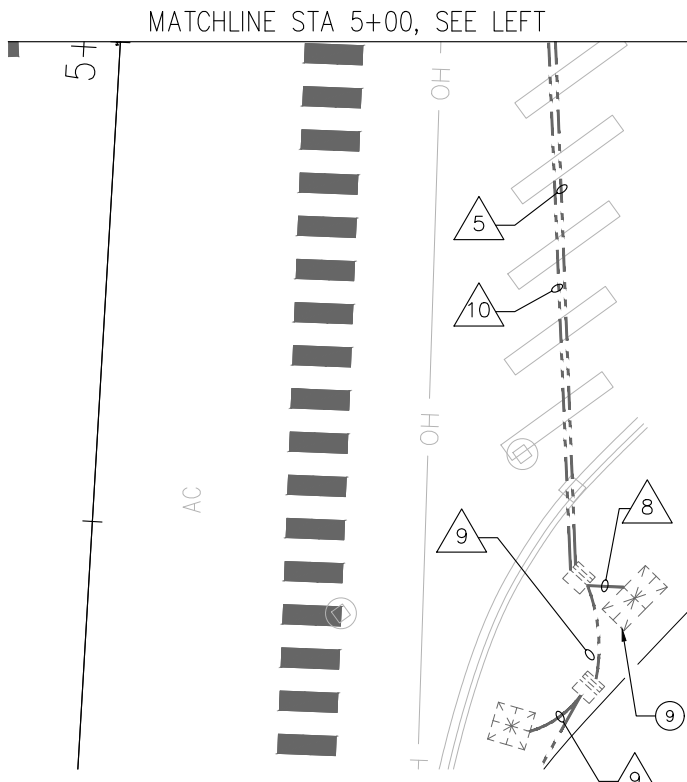
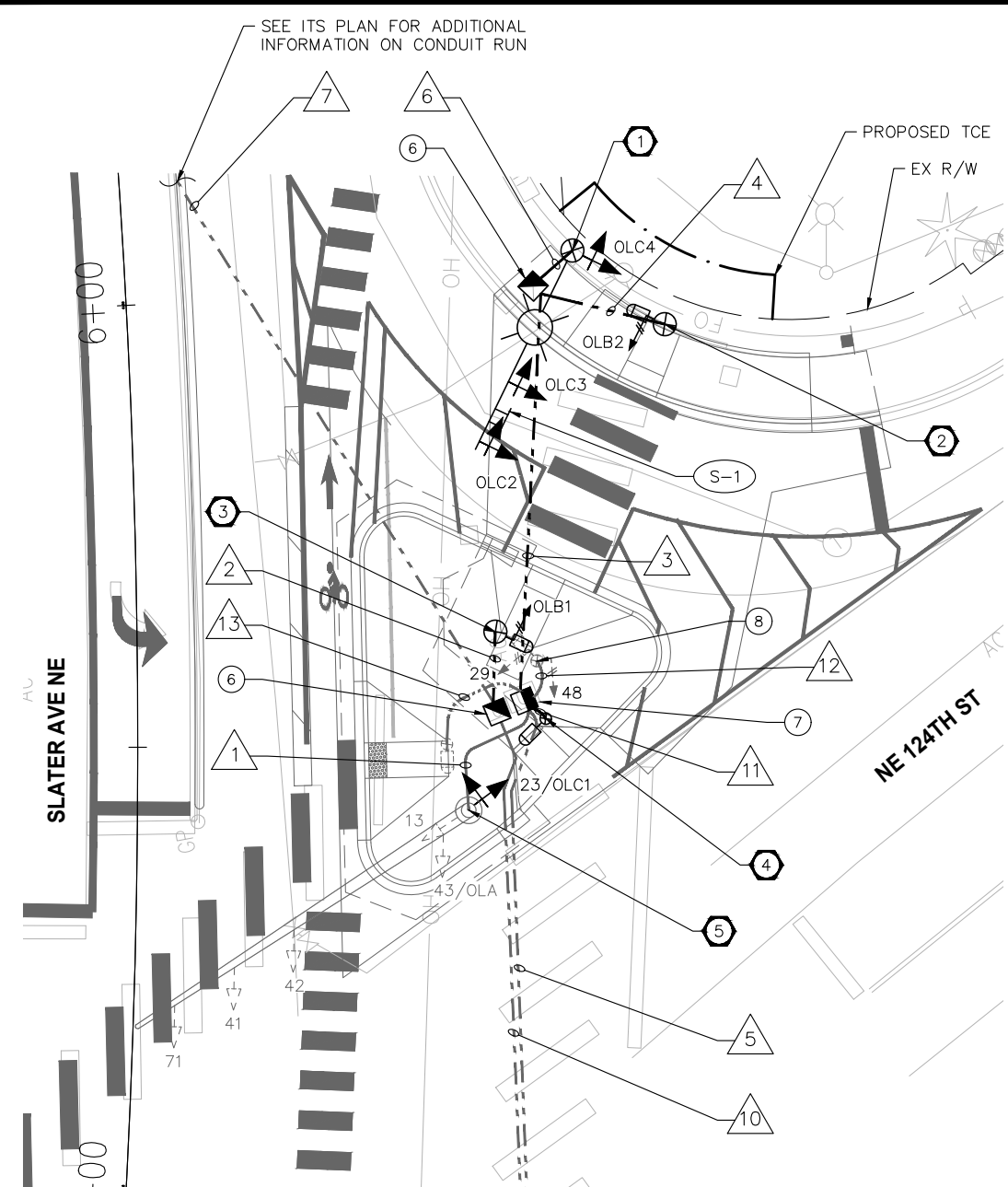
CITY OF KIRKLAND  
132ND AVE NE & SLATER AVE CROSSING  
NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
CHANNELIZATION DETAILS

SHEET:	20 of 33
SCALE:	NTS
FILENAME:	CH05



L:\M\DKS\SEA\Company\1\PROJECTS - 24000 EFF 5.15.23\24000\0006\24053-000 Kirkland 132nd Ave Trail Crossing\02 Delivery\06 CAD\CH05.dwg

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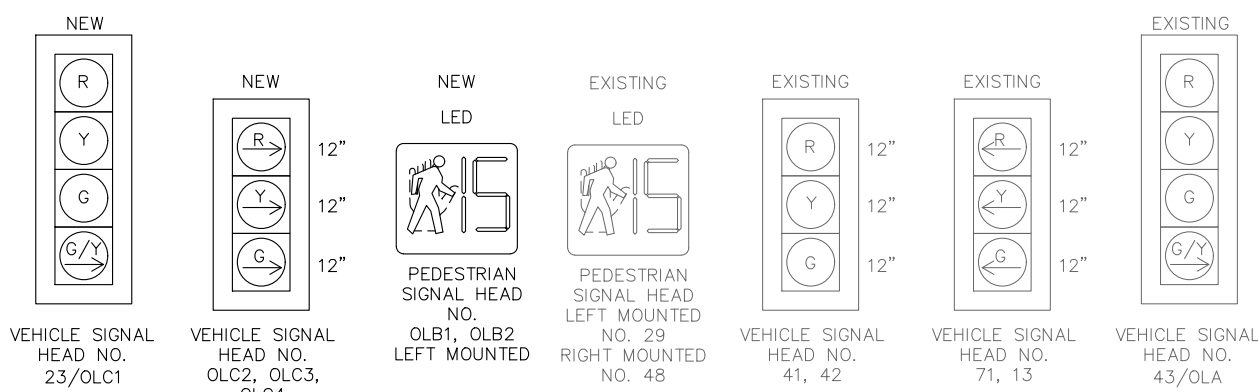
**LEGEND**

EXISTING	NEW	
		TRAFFIC SIGNAL CONTROLLER CABINET
		ELECTRICAL SERVICE CABINET
		TYPE 3 SIGNAL STANDARD
		BIKE/PED PUSHBUTTON
		PED PUSHBUTTON POST
		PS POLE
		SIGNAL HEAD
		BI-DIRECTIONAL SIGNAL HEAD
		PED SIGNAL HEAD
		MAST ARM SIGN
		TYPE 2 JUNCTION BOX
		TYPE 8 JUNCTION BOX
		CONDUIT
		POLE NOTE
		CONSTRUCTION NOTE

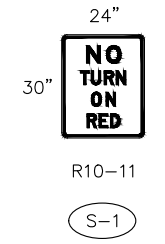
**CONSTRUCTION NOTES**

- 1 CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-26.10-03. FURNISH AND INSTALL NEW TYPE III SIGNAL POLE WITH 25' MAST ARM AND 12' LUMINAIRE ARM. FURNISH AND INSTALL THREE NEW THREE-SECTION SIGNAL HEADS AND ONE SIGN. FURNISH AND INSTALL ONE TERMINAL CABINET. FURNISH AND INSTALL NEW LED LUMINAIRE ON LUMINAIRE ARM. SEE ILLUMINATION POLE SCHEDULE ON SHEET SG02 FOR LUMINAIRE DETAILS.
- 2 CONSTRUCT CURB INTEGRATED FOUNDATION PER WSDOT STD PLANS J-21.10-05 AND J-20.16-02. FURNISH AND INSTALL NEW TYPE PS POLE. FURNISH AND INSTALL ONE PEDESTRIAN SIGNAL HEAD ON POLE PER WSDOT STD PLAN J-20.20-02. FURNISH AND INSTALL ONE APS PUSHBUTTON ASSEMBLY ON POLE PER WSDOT STD PLAN J-20.26-01.
- 3 CONSTRUCT POLE FOUNDATION PER WSDOT STD PLANS J-21.10-05 AND J-20.16-02. FURNISH AND INSTALL NEW TYPE PS POLE. FURNISH AND INSTALL ONE PEDESTRIAN SIGNAL HEAD ON POLE PER WSDOT STD PLAN J-20.20-02. FURNISH AND INSTALL ONE APS PUSHBUTTON ASSEMBLY ON POLE PER WSDOT STD PLAN J-20.26-01.
- 4 CONSTRUCT BREAKAWAY PPB POLE FOUNDATION AND INSTALL ONE PPB POST PER WSDOT STD PLAN J-20.15-04. FURNISH AND INSTALL ONE APS PUSHBUTTON ASSEMBLY ON POLE PER WSDOT STD PLAN J-20.26-01.
- 5 MOUNT ONE NEW FOUR SECTIONAL AUXILIARY SIGNAL HEAD ON EXISTING MAST ARM POLE.
- 6 REMOVE AND REPLACE EXISTING JUNCTION BOX WITH NEW TYPE 2 JUNCTION BOX PER WSDOT STD PLAN J-40.10-04.
- 7 REMOVE AND REPLACE EXISTING JUNCTION BOX WITH NEW TYPE 8 JUNCTION BOX PER WSDOT STD PLAN J-40.30-04.
- 8 REMOVE EXISTING PUSHBUTTON ASSEMBLY. MAINTAIN AND PROTECT EXISTING POLE.
- 9 ALL EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLIES AT THE INTERSECTION OF SLATER AVE NE AND NE 124TH ST SHALL BE REMOVED AND REPLACED PER SPECS. REMOVE AND REPLACE ALL EXISTING WIRING FROM ASSEMBLY TO CABINET. INSTALL PEDESTRIAN PUSHBUTTON CONTROL UNIT IN EXISTING CONTROLLER CABINET.

**SIGNAL HEADS**

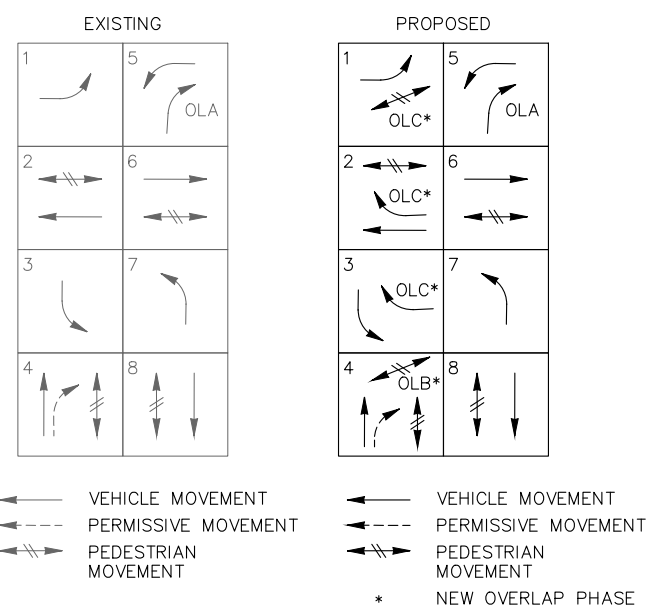


**SIGN LEGEND**



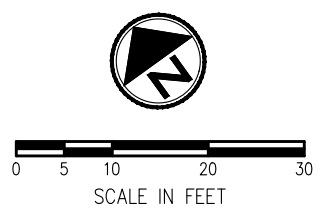
PRE-EMPTION SCHEDULE	
CHANNEL	PHASE
A	2 & 5
B	4 & 7
C	1 & 6 & OLB
D	3 & 8 & OLA

**PHASE DIAGRAM**



**NOTES:**

1. ALL NEW VEHICLE SIGNAL HEADS SHALL BE LED TYPE AND SHALL BE INSTALLED WITH NEW TUNNEL VISORS, SQUARE DOORS, AND 5" BACKPLATES WITH 1" YELLOW RETROREFLECTIVE TAPE.
2. NEW SIGNAL HEADS SHALL BE INSTALLED WITH NEW MOUNTING TYPE "M" AND TYPE "K" PER WSDOT STD PLAN J-75.20-01.
3. PEDESTRIAN HEADS 48 AND 49 SHALL BE INSTALLED ON TYPE "E" CLAMSHELL MOUNTING PER WSDOT STANDARD PLAN J-75.10-02.



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CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 TRAFFIC SIGNAL PLAN

SHEET:  
 21 OF 33  
 SCALE:  
 1" = 20'  
 FILENAME:  
 SG01

12/20/2024

**WIRE SCHEDULE**

RUN NO	CONDUIT SIZE	SIGNAL 5C	PED HEAD 5C	PPB 2CS	ILLUM #8	GROUND #8	20-C	EVP	CCTV	CAT6	2CS DET	12-SMFO FIBER	COPPER	NOTES
1	EX 2"	R 4				EX 1	1	EX 1	EX 1	EX 1				REMOVE EXISTING SIGNAL 5C WIRE
	EX 1"													EXISTING
2	2"		1	1		1								
3	EX 2"	1	1	1		1							R 1	REMOVE EXISTING COPPER
	2"				2	1								
4	2"		1	1		1								
	2"													SPARE
5	EX 3"	EX 9, R 4, 1	EX 2, 1			EX 1	1	EX 2	EX 1	EX 1			R 1	REMOVE EXISTING COPPER
	EX 3"			EX 1, R 1, 2		EX 1								EXISTING
	EX 3"													EXISTING
	EX 3"				2	1								EXISTING
6	2"	1				1								
	2"				2	1								
7	EX 2"					EX 1					R 2, 3	1*	R 1	REMOVE EXISTING COPPER AND LOOPS. *SEE RUN 3 ON TS01 FOR INFORMATION ON FIBER WIRING. FIBER WIRE TO BE INSTALLED/TO REMAIN IN THIS CONDUIT
8	EX 3"	EX 9, R 4, 1	EX 2, 1			EX 1	1						R 1	REMOVE EXISTING COPPER
	EX 3"			EX 1, R 1, 2		EX 1		EX 4	EX 1	EX 4	R 2, 3			
	EX 3"					1						1*		*SEE RUN 3 ON TS01 FOR INFORMATION ON FIBER WIRING. FIBER WIRE TO BE INSTALLED/TO REMAIN IN THIS CONDUIT
9	EX 3"				2	1								
10	EX 2"		1	1		EX 1					R 2, 3	1*	R 1	*SEE RUN 3 ON TS01 FOR INFORMATION ON FIBER WIRING. FIBER WIRE TO BE INSTALLED/TO REMAIN IN THIS CONDUIT
11	1"			1		1								
12	EX 2"		EX 2	R 1		EX 1								
13	EX 1"			EX 1										

EX: EXISTING  
R: REMOVAL  
NOTE: OTHER CONDUCTORS MAY BE PRESENT. MAINTAIN AND PROTECT EXISTING WIRING OTHERWISE NOT CALLED OUT IN WIRE SCHEDULE.

**PUSH BUTTON SCHEDULE \***

NE 124TH ST & 132ND AVE NE					
PUSH BUTTON	PHASE	POLE	ARROW DIRECTION	SIGN **	SPECIAL VOICE MESSAGE
OLB1	OLB	3	RIGHT	R10-3	WALK SIGN ON TO CROSS NE 124TH STREET
OLB2	OLB	2	RIGHT	R10-3	WALK SIGN ON TO CROSS NE 124TH STREET
48	4	4	RIGHT	R10-3	WALK SIGN ON TO CROSS NE 124TH STREET

\* SEE POLE SCHEDULE FOR POLE MOUNTING LOCATION  
\*\* ARROW ON SIGN SHALL MATCH ARROW DIRECTION ON PPB

**ILLUMINATION POLE SCHEDULE**

LUMINAIRE NO	LOCATION	STATION	OFFSET (FT)	POLE TYPE	LUMINAIRE TYPE	FIXTURE TYPE	MH (FT)	ARM (FT)	CIRCUIT NO	NOTES
1	SLATER AVE NE & NE 124TH ST	6+03.4	50.7' RT	EX STREET POLE	GCL1 LEOTEK LED COBRAHEAD 3000K TYPE III 135W	GCL1-60G-MV-WW-3R-GY-530	35	12	EXISTING	

**BID DOCUMENTS**



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CITY OF KIRKLAND  
132ND AVE NE & SLATER AVE CROSSING  
NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
TRAFFIC SIGNAL DETAILS

SHEET:	22 of 33
SCALE:	NTS
FILENAME:	SG02

**GENERAL NOTES**

- UTILITY LOCATION (DIAL-A-DIG) PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- ALL WORK SHALL BE IN CONFORMANCE WITH 2024 STATE OF WASHINGTON STANDARD PLANS AND SPECIFICATIONS, THESE PLANS, AND THE SPECIAL PROVISIONS.
- ALL JUNCTION BOXES AND CONDUIT RUNS SHALL BE INSTALLED AS SHOWN ON THE PLANS. LOCATIONS SHOWN ARE SCHEMATIC AND THE ENGINEER WILL PROVIDE EXACT LOCATIONS. SEE WSDOT STANDARD PLANS J10, J-40.10-04, AND J-40.30-04.
- ALL MAST ARM-MOUNTED SIGNS SHALL BE INSTALLED WITH STAINLESS STEEL STRAPS AND BRACKET PER WSDOT STANDARD PLAN G-30.10-04.

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NOTES

- ① MOUNTING COUPLING INSTALLED AT OFFSET DISTANCE INDICATED IN CHART. FOR TYPE N MOUNTS ONLY, DRILL 1" DIA. HOLE IN MAST ARM AND INSTALL PLASTIC SPLIT BUSHING FOR CABLE ENTRANCE.
- ② FIELD INSTALLED.

MAST ARM EQUIPMENT

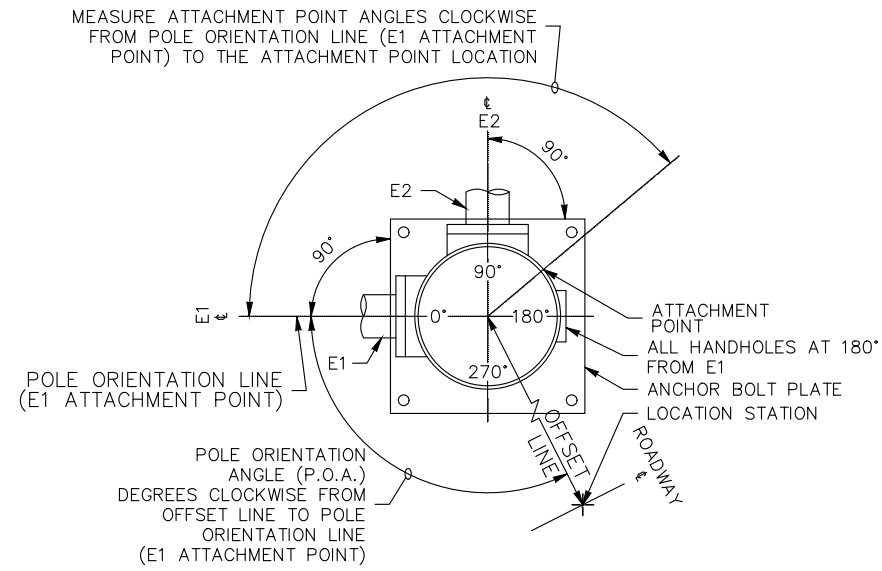
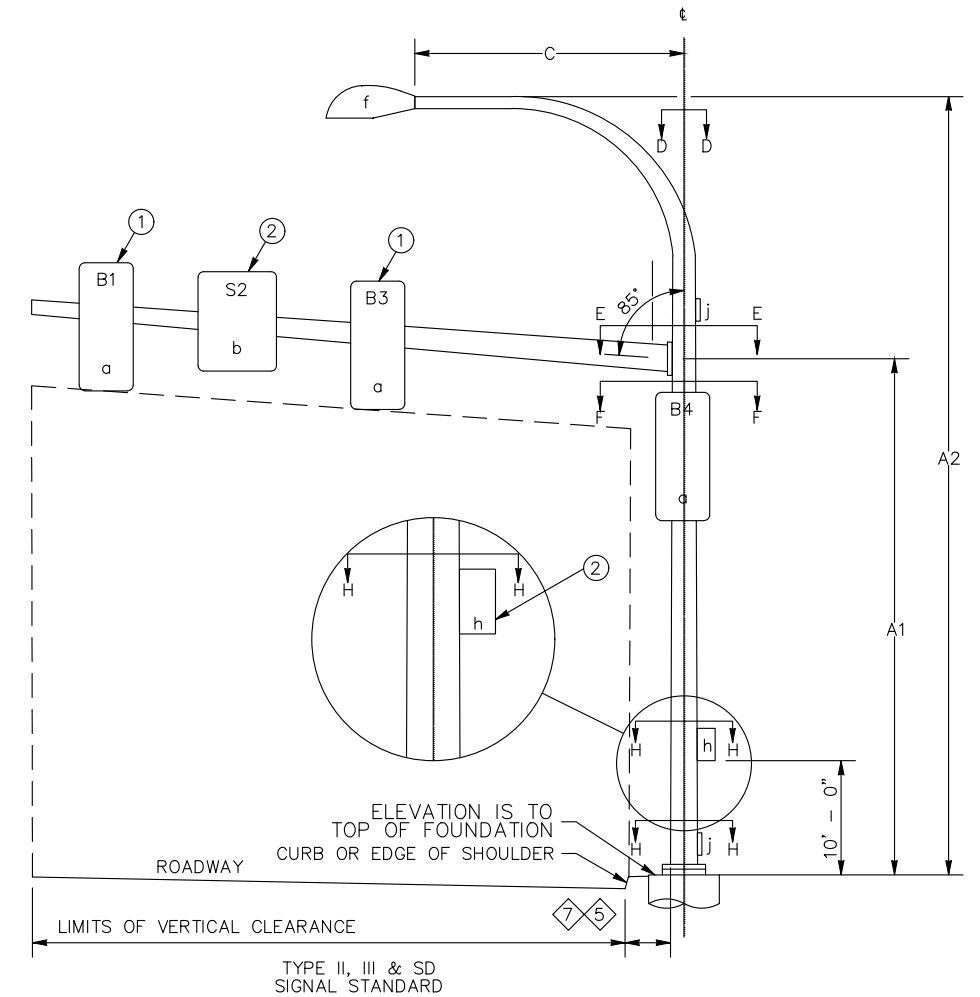
- B# VEHICLE DISPLAY
- S# MAST ARM SIGN
- SN MAST ARM STREET NAME SIGN
- X# PRE-EMPT, VIDEO, OR RADAR DETECTOR

LEGEND

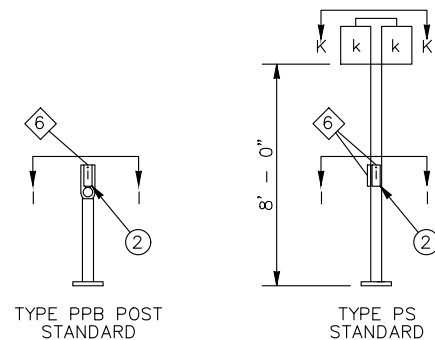
- a. VEHICLE DISPLAY
- b. MAST ARM MTD. SIGN
- c. NOT USED
- d. NOT USED
- e. NOT USED
- f. LUMINAIRE
- g. PEDESTRIAN PUSH BUTTON
- h. TERMINAL CABINET
- i. NOT USED
- j. HANDHOLE
- k. PEDESTRIAN HEAD

- ⑤ PLACEMENT SHALL BE 2' - 0" MIN. FROM FACE OF CURB OR EDGE OF SHOULDER; 3' - 0" MIN. FROM FACE OF GUARDRAIL; 4' - 0" MIN. FROM CONC. BARRIER TYPE 2 (MEASURED FROM A POINT WHERE THE BARRIER BASE MEETS THE SHOULDER SURFACE (TOE), MEASUREMENT TAKEN FROM TRAFFIC SIDE OF BARRIER; TO FACE OF POLE)
- ⑦ DMS OR VMS IS NOT ALLOWED ON THESE POLES.

- ⑥ 3' - 6" MEASURED FROM SIDEWALK SURFACE TO CENTER OF PEDESTRIAN PUSH BUTTON



STANDARD TYPE	STANDARD PLAN REFERENCES			
	POLE	FOUNDATION STANDARD	FOUNDATION CURB	ELECTRICAL
PS	J-20.16	J-21.10	J-21.10	J-20.20
PPB BREAKAWAY	J-20.15	J-20.15	J-20.15	J-20.15



NOTE:  
TYPE E MOUNTS SHALL BE USED FOR PEDESTRIAN DISPLAYS ON TYPE II OR III SIGNAL STANDARDS, WITH THE FOLLOWING EXCEPTION: PEDESTRIAN DISPLAYS MOUNTED ON OCTAGONAL (8 SIDED) SIGNAL STANDARDS AT AN ANGLE OTHER THAN A 45 DEGREE INCREMENT SHALL USE A TYPE A MOUNT FOR TWO PEDESTRIAN DISPLAYS, OR A TYPE B MOUNT FOR A SINGLE PEDESTRIAN DISPLAY.

SIGNAL STANDARD DETAIL CHART

STD. No. #	FIELD LOCATION						POLE TYPE	MOUNTING HEIGHT (FT)		SIGNAL MAST ARM DATA						LUMINAIRE ARM (FT)	CALCULATED POLE XYZ (FT <sup>3</sup> )	POLE ATTACHMENT POINT ANGLES (DEGREES)						FOUNDATION DESIGN XYZ (FT <sup>3</sup> )	SOIL BEARING PRESSURE (PSF)	FOUNDATION DEPTH (FT)		REMARKS
										OFFSETS (FT) (Z) (POLE t TO ATTACHMENT POINT)			WINDLOAD AREAS (FT <sup>2</sup> ) (X)(Y)													ALTERNATE 1		
	STATION	OFFSET	LT.	RT.	ELEV.*	P.O.A.	A1	A2	B1	S2	B3	B1	S2	B3	C	★ ★	D	E	H	I	K	XYZ (FT <sup>3</sup> )	PSF	3' RD.	3' SQ.			
1	6+03.4	50.7'		X	139.52	299	19	35	24	20.7	16.5	9.2	6.0	9.2	12	537	0	0	180			700	1000	12'-0"	10'-0"			
2	5+95.0	60.8'		X	140.02														330	330						NOTE 1		
3	5+62.5	40.5'		X	140.28														150	150						NOTE 1		
4	5+53.1	46.1'		X	140.37														260							NOTE 1		

\* ELEVATION SHALL MATCH TOP OF SIDEWALK, CURB, OR TRAFFIC ISLAND FINISH GRADE AS APPLICABLE.  
NOTE 1: FOR TYPE PS AND PPB POLES, P.O.A. ASSUMED TO BE DUE NORTH FOR 0 DEGREES.

\*\* CALCULATED POLE XYZ (FT<sup>3</sup>) IS THE SUM OF THE TOTAL XYZ (FT<sup>3</sup>) FOR THE SIGNAL ARM AND THE XYZ (FT<sup>3</sup>) FOR THE LUMINAIRE ARM (IF PRESENT).

BID DOCUMENTS

**CITY OF KIRKLAND**  
DEPARTMENT OF PUBLIC WORKS  
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(425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



**DKS**  
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Seattle, WA 98104  
(206) 382-9800  
www.dksassociates.com

A. GUIAO DESIGNED BY:	12-06-24 DATE
C. TOWER DRAWN BY:	12-06-24 DATE
J. LIU CHECKED BY:	12-06-24 DATE

CITY OF KIRKLAND  
132ND AVE NE & SLATER AVE CROSSING  
NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
TRAFFIC SIGNAL DETAILS

SHEET:	23 OF 33
SCALE:	NTS
FILENAME:	SG03

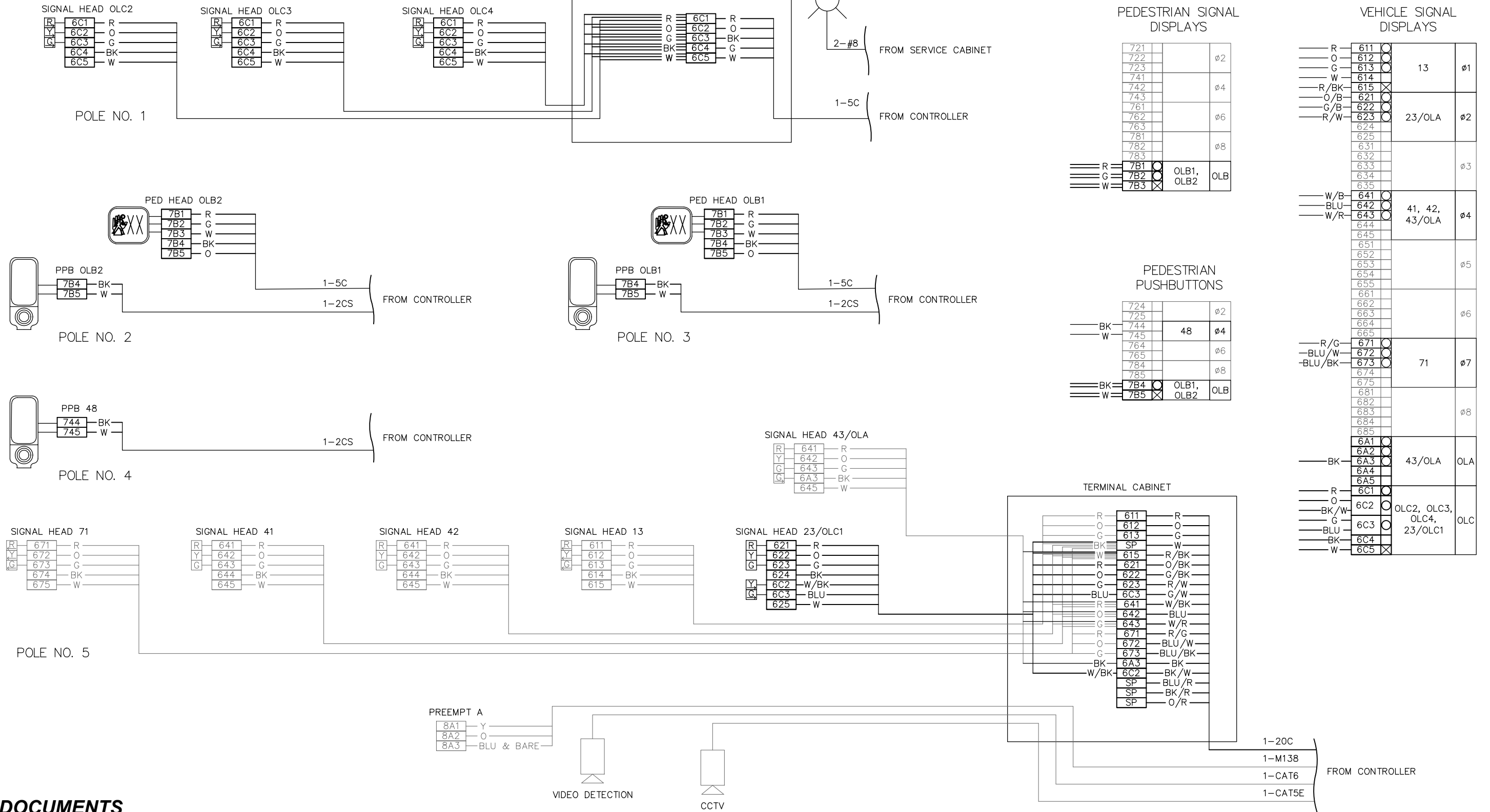
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**FIELD WIRE TERMINATIONS**

ONLY NEW OR MODIFIED WIRING SHOWN

**CONTROLLER TERMINATIONS**

ONLY NEW OR MODIFIED WIRING SHOWN



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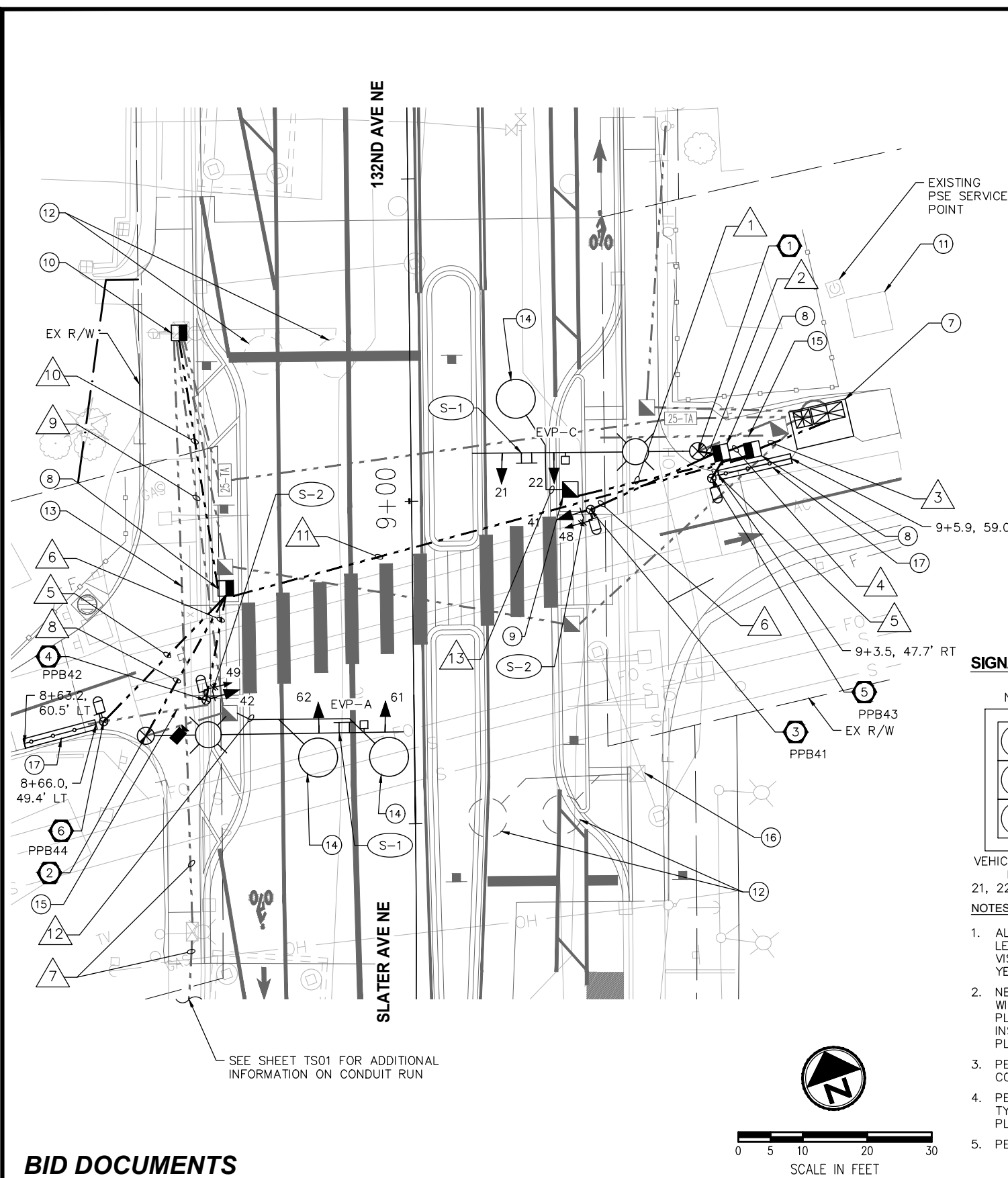
**CITY OF KIRKLAND**  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 FIELD TERMINATIONS

SHEET:	24 OF 33
SCALE:	NTS
FILENAME:	SG04

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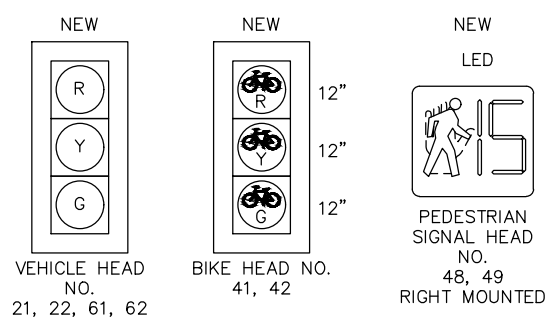


SEE SHEET TS01 FOR ADDITIONAL INFORMATION ON CONDUIT RUN

**LEGEND**

- |          |     |                                   |
|----------|-----|-----------------------------------|
| EXISTING | NEW |                                   |
|          |     | TRAFFIC SIGNAL CONTROLLER CABINET |
|          |     | ELECTRICAL SERVICE CABINET        |
|          |     | TYPE 3 SIGNAL STANDARD            |
|          |     | BIKE/PED PUSHBUTTON               |
|          |     | PED PUSHBUTTON POST               |
|          |     | SIGNAL HEAD                       |
|          |     | PED SIGNAL HEAD                   |
|          |     | MAST ARM SIGN                     |
|          |     | POLE MOUNTED SIGN                 |
|          |     | EMERGENCY PRE-EMPTION DETECTOR    |
|          |     | CCTV CAMERA                       |
|          |     | TYPE 1 JUNCTION BOX               |
|          |     | TYPE 2 JUNCTION BOX               |
|          |     | TYPE 8 JUNCTION BOX               |
|          |     | SMALL CABLE VAULT                 |
|          |     | CONDUIT                           |
|          |     | BICYCLE LEANING RAIL              |
|          |     | POLE NOTE                         |
|          |     | CONSTRUCTION NOTE                 |

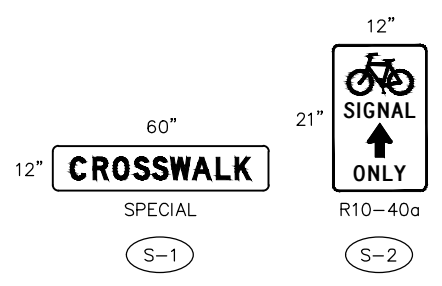
**SIGNAL HEADS**



**NOTES:**

- ALL NEW VEHICLE AND BIKE SIGNAL HEADS SHALL BE LED TYPE AND SHALL BE INSTALLED WITH NEW TUNNEL VISORS, SQUARE DOORS AND 5" BACKPLATES, AND 1" YELLOW RETROREFLECTIVE TAPE.
- NEW SIGNAL HEADS 21, 22, 61, 62 SHALL BE INSTALLED WITH NEW MOUNTING TYPE "M" PER WSDOT STD PLAN J-75.20-01. BIKE HEADS 41 AND 42 SHALL BE INSTALLED ON TYPE "D" MOUNTING PER WSDOT STANDARD PLAN J-75.10-02.
- PEDESTRIAN SIGNAL HEADS SHALL BE LED COUNTDOWN TYPE.
- PEDESTRIAN HEADS 48 AND 49 SHALL BE INSTALLED ON TYPE "E" CLAMSHELL MOUNTING PER WSDOT STANDARD PLAN J-75.10-02.
- PEDESTRIAN PUSHBUTTONS SHALL BE POLARA IDS TYPE.

**SIGN LEGEND**



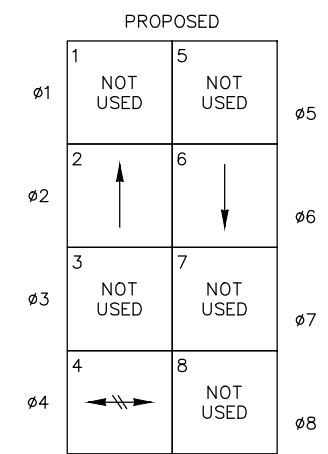
**CONSTRUCTION NOTES**

- CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-26.10-03. FURNISH AND INSTALL NEW TYPE III SIGNAL POLE WITH 35' MAST ARM AND 12' LUMINAIRE ARM. FURNISH AND INSTALL TWO NEW SIGNAL HEADS, ONE NEW EMERGENCY PRE-EMPTION DETECTOR, AND ONE SIGN. FURNISH AND INSTALL ONE TERMINAL CABINET. FURNISH AND INSTALL NEW LED LUMINAIRE ON THE LUMINAIRE ARM. SEE ILLUMINATION SHEETS.
- CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-26.10-03. FURNISH AND INSTALL NEW TYPE III SIGNAL POLE WITH 40' MAST ARM AND 12' LUMINAIRE ARM. FURNISH AND INSTALL TWO NEW SIGNAL HEADS, ONE NEW EMERGENCY PRE-EMPTION DETECTOR, AND ONE SIGN. FURNISH AND INSTALL ONE TERMINAL CABINET. FURNISH AND INSTALL NEW LED LUMINAIRE AND ONE CCTV ON THE LUMINAIRE ARM. SEE ILLUMINATION SHEETS.
- CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-21.10-05. FURNISH AND INSTALL NEW TYPE 1 POLE WITH NEW BIKE SIGNAL HEAD, NEW PEDESTRIAN SIGNAL HEAD, ONE SIGN, AND NEW APS PUSHBUTTON ASSEMBLY PER WSDOT STD PLANS J-21.15-01, J-20.16-02, AND J-20.26-01.
- CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-21.10-05. FURNISH AND INSTALL NEW TYPE 1 POLE WITH NEW BIKE SIGNAL HEAD, NEW PEDESTRIAN SIGNAL HEAD, ONE SIGN, AND NEW APS PUSHBUTTON ASSEMBLY PER WSDOT STD PLANS J-21.15-01, J-20.16-02, AND J-20.26-01.
- CONSTRUCT PPB POLE FOUNDATION AND INSTALL ONE PPB POST PER WSDOT STD PLAN J-20.15-04. FURNISH AND INSTALL ONE BIKE PUSHBUTTON ASSEMBLY WITH R10-26 SIGN ON POLE PER WSDOT STD PLAN J-20.26-01.
- CONSTRUCT PPB POLE FOUNDATION AND INSTALL ONE PPB POST PER WSDOT STD PLAN J-20.15-04. FURNISH AND INSTALL ONE BIKE PUSHBUTTON ASSEMBLY WITH R10-26 SIGN ON POLE PER WSDOT STD PLAN J-20.26-01.
- INSTALL NEW JOINT CABINET FOUNDATION PER CITY OF KIRKLAND STD PLAN NO CK-TS.04. INSTALL SERVICE CABINET PER COK STD PLAN CK-TS.05A. PROVIDE AND INSTALL STRETCH P+ CONTROLLER CABINET WITH NEMA TS2 CONTROLLER WITH ALL NECESSARY EQUIPMENT. REFER TO SPECIAL PROVISIONS. DELIVER THE CONTROLLER AND CONTROLLER CABINET TO THE CITY OF KIRKLAND SIGNAL SHOP FOR SETUP AND TESTING. FOLLOWING TESTING, THE CITY WILL DELIVER THE CONTROLLER AND CABINET TO THE JOB SITE. CONTRACTOR SHALL WIRE TO THE INTERSECTION CONFIGURATION WITH ALL ASSOCIATED EQUIPMENT AND MAKE ALL NECESSARY FIELD CONNECTIONS. INSTALL NEW ETHERNET SWITCH, 12 PORT PRETERMINATED PATCH PANEL, AND CONNECT WITH THE 12-SMFO CABLE. SEE NEW SERVICE BREAKER SCHEDULE ON SG08.
- INSTALL TYPE 8 JUNCTION BOX PER WSDOT STD PLAN J-40.30-04.
- INSTALL TYPE 2 JUNCTION BOX PER WSDOT STD PLAN J-40.10-04.
- REMOVE AND REPLACE EXISTING JUNCTION BOX WITH NEW TYPE 8 JUNCTION BOX PER WSDOT STD PLAN J-40.30-04. SPLICE 3 PAIRS OF #6 WIRE WITH EXISTING LIGHTING WIRES, DISCONNECT THE EXISTING SERVICE AT SOUTH. SEE CON. NOTE 3 ON SHEET IL01.
- PROTECT EXISTING RAILROAD BUNGALOW TO REMAIN.
- ABANDON EXISTING LOOPS.
- PROTECT EXISTING CONDUIT IN PLACE.
- INSTALL TYPE 3 DETECTION LOOPS PER WSDOT STD PLAN J-50.18-00.
- PROTECT EXISTING CONDUIT. SEE SPECIAL PROVISIONS APPENDIX FOR DETAILED POTHOLING INFORMATION.
- REMOVE EXISTING JUNCTION BOX.
- INSTALL BICYCLE LEANING RAIL 6" FROM PROPOSED PUSH BUTTON POST. SEE SHEET SG09 FOR DETAILS.

**PHASE DIAGRAM**

PRE-EMPTION SCHEDULE

CHANNEL	PHASE
A	2
C	6



← PROTECTED VEHICLE MOVEMENT  
 ⇄ PEDESTRIAN & CYCLIST MOVEMENT

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CHECKED BY:	DATE

CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 TRAFFIC SIGNAL PLAN

SHEET:  
 25 OF 33  
 SCALE:  
 1" = 20'  
 FILENAME:  
 SG05

12/20/2024

**GENERAL NOTES**

- UTILITY LOCATION (DIAL-A-DIG) PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- ALL WORK SHALL BE IN CONFORMANCE WITH 2024 STATE OF WASHINGTON STANDARD PLANS AND SPECIFICATIONS, THESE PLANS, AND THE SPECIAL PROVISIONS.
- ALL JUNCTION BOXES AND CONDUIT RUNS SHALL BE INSTALLED AS SHOWN ON THE PLANS. LOCATIONS SHOWN ARE SCHEMATIC AND THE ENGINEER WILL PROVIDE EXACT LOCATIONS. SEE WSDOT STANDARD PLANS J10, J-40.10-04, AND J-40.30-04.
- ALL MAST ARM-MOUNTED SIGNS SHALL BE INSTALLED WITH STAINLESS STEEL STRAPS AND BRACKET PER WSDOT STANDARD PLAN G-30.10-04.

**WIRE SCHEDULE**

RUN NO	CONDUIT SIZE	SIGNAL 5C	BIKE HEAD 5C	PED HEAD 5C	PPB 2CS	BPB 2CS	GROUND #6	EVP (M138)	12-SMFO FIBER	CCTV	2CS DET	NOTES
1	2"						1				1	
2	3"	1					1	1				
	2"											SPARE
3	3"	2	2	2	2	2	1	2				
	3"											SPARE
4	3"	1	1	1	1	1	1	1				
	2"											SPARE
5	1"						1					
6	2"		1	1	1		1					
7	EX 2"								1*		R 2, 3	*SEE RUN 2 ON TS01 FOR INFORMATION ON FIBER WIRING. FIBER WIRE TO BE INSTALLED/TO REMAIN IN THIS CONDUIT
8	3"	1					1	1		1		
	2"											SPARE
9	2"						1				2	
	2"											SEE ILLUMINATION PLAN FOR POWER WIRES
10	2"						1				1	
11	3"	1	1	1	1	1	1	1		1	1	
	2"											SPARE
12	2"										2	
13	2"										1	


EX: EXISTING  
R: REMOVAL

**PUSH BUTTON SCHEDULE \***

TRAIL CROSSING					
PUSH BUTTON	PHASE	POLE	ARROW DIRECTION	SIGN**	SPECIAL VOICE MESSAGE
41	4	3	LEFT	R10-3	NONE
42	4	4	LEFT	R10-3	NONE
43	4	5	LEFT	R10-26	NONE
44	4	6	LEFT	R10-26	NONE

\* SEE POLE SCHEDULE FOR POLE MOUNTING LOCATION  
\*\* ARROW ON SIGN SHALL MATCH ARROW DIRECTION ON PPB

**BID DOCUMENTS**



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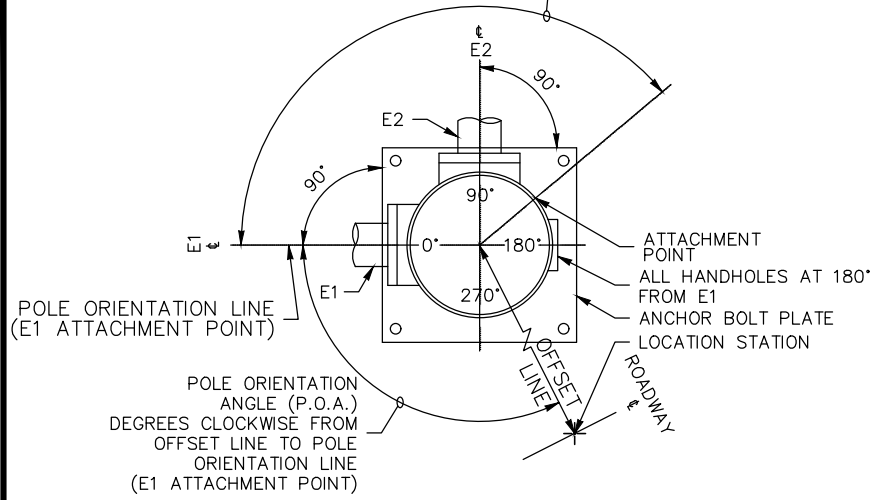
A. GUIAO	12-06-24
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CITY OF KIRKLAND  
132ND AVE NE & SLATER AVE CROSSING  
NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
TRAFFIC SIGNAL DETAILS

SHEET:	26 of 33
SCALE:	NTS
FILENAME:	SG06

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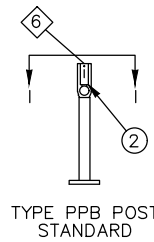
MEASURE ATTACHMENT POINT ANGLES CLOCKWISE FROM POLE ORIENTATION LINE (E1 ATTACHMENT POINT) TO THE ATTACHMENT POINT LOCATION



POLE ORIENTATION AND ATTACHMENT POINT DETAIL

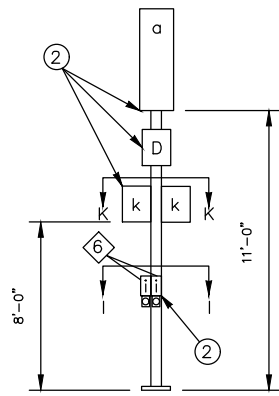
NOTE:

TYPE E MOUNTS SHALL BE USED FOR PEDESTRIAN DISPLAYS ON TYPE II OR III SIGNAL STANDARDS, WITH THE FOLLOWING EXCEPTION: PEDESTRIAN DISPLAYS MOUNTED ON OCTAGONAL (8 SIDED) SIGNAL STANDARDS AT AN ANGLE OTHER THAN A 45 DEGREE INCREMENT SHALL USE A TYPE A MOUNT FOR TWO PEDESTRIAN DISPLAYS, OR A TYPE B MOUNT FOR A SINGLE PEDESTRIAN DISPLAY.



TYPE PPB POST STANDARD

3' - 6" MEASURED FROM SIDEWALK SURFACE TO CENTER OF PEDESTRIAN PUSH BUTTON



TYPE I VEHICLE SIGNAL STANDARD

STANDARD TYPE	POLE	STANDARD PLAN REFERENCES			ELECTRICAL
		STANDARD	CURB		
I	J-21.15	J-21.10	J-21.10	J-21.20	J-21.20
PPB/BREAKAWAY	J-20.15	J-20.15	J-20.15	J-20.15	J-20.15

NOTES

① MOUNTING COUPLING INSTALLED AT OFFSET DISTANCE INDICATED IN CHART. FOR TYPE N MOUNTS ONLY, DRILL 1" DIA. HOLE IN MAST ARM AND INSTALL PLASTIC SPLIT BUSHING FOR CABLE ENTRANCE.

② FIELD INSTALLED.

MAST ARM EQUIPMENT

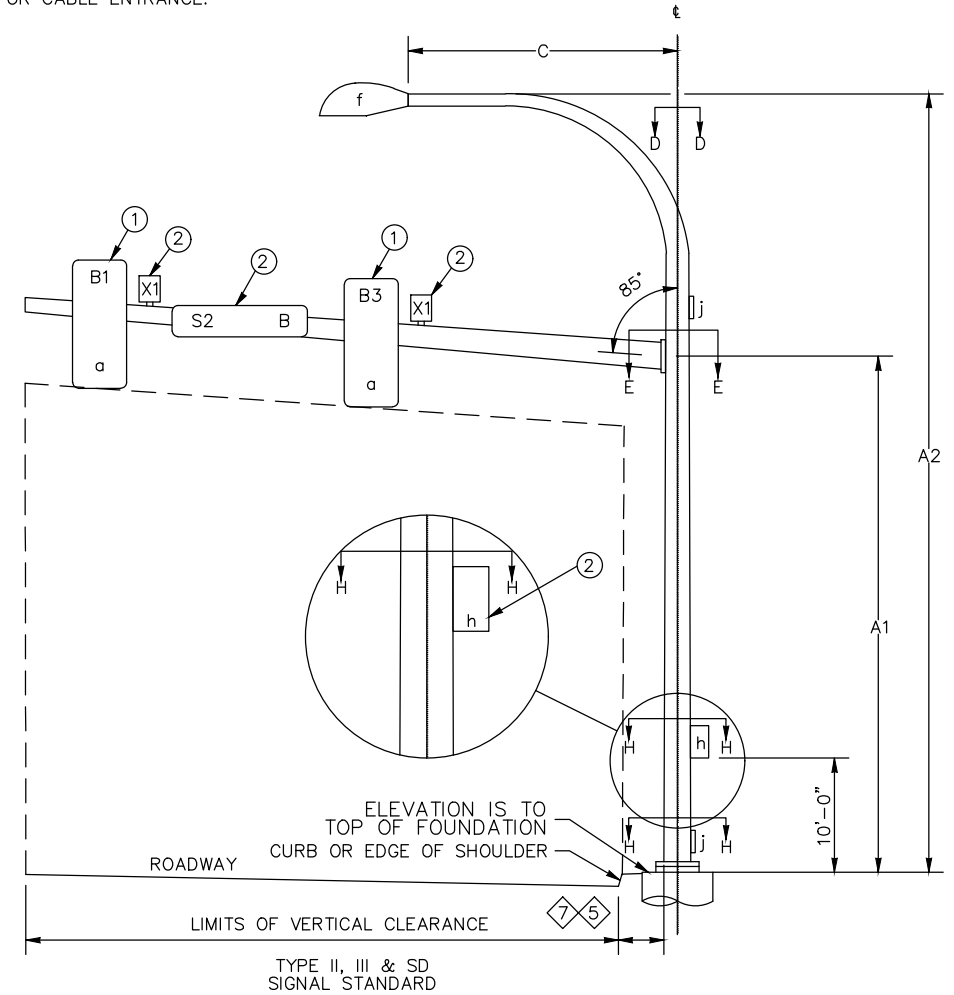
- B# VEHICLE DISPLAY
- S# MAST ARM SIGN
- SN MAST ARM STREET NAME SIGN
- X# PRE-EMPT, VIDEO, OR RADAR DETECTOR

LEGEND

- a. VEHICLE/BIKE DISPLAY
- b. MAST ARM MTD. SIGN
- c. NOT USED
- d. SIGN
- e. NOT USED
- f. LUMINAIRE
- g. PEDESTRIAN DISPLAY
- h. TERMINAL CABINET
- i. PEDESTRIAN/BIKE PUSH BUTTON
- j. HANDHOLE

⑤ PLACEMENT SHALL BE 2' - 0" MIN. FROM FACE OF CURB OR EDGE OF SHOULDER; 3' - 0" MIN. FROM FACE OF GUARDRAIL; 4' - 0" MIN. FROM CONC. BARRIER TYPE 2 (MEASURED FROM A POINT WHERE THE BARRIER BASE MEETS THE SHOULDER SURFACE (TOE), MEASUREMENT TAKEN FROM TRAFFIC SIDE OF BARRIER; TO FACE OF POLE)

⑦ DMS OR VMS IS NOT ALLOWED ON THESE POLES.



SIGNAL DISPLAY VERTICAL CLEARANCE TO ROADWAY

HORIZONTAL DISTANCE FROM STOP LINE	MIN.		MAX.		
	ALL	40'	45'	50'	53' - 180'
HAWK SIGNAL HEAD	16.5'	17.5'	19.2'	20.9'	22.0'

MEASURED FROM BOTTOM OF SIGNAL HEAD HOUSING TO ROADWAY

SIGNAL STANDARD DETAIL CHART

STD. No.	FIELD LOCATION						POLE TYPE	MOUNTING HEIGHT (FT)		SIGNAL MAST ARM DATA										LUMINAIRE ARM (FT)	CALCULATED POLE XYZ (FT <sup>3</sup> )	POLE ATTACHMENT POINT ANGLES (DEGREES)	FOUNDATION DESIGN XYZ (FT <sup>3</sup> )	SOIL BEARING PRESSURE (PSF)	FOUNDATION DEPTH (FT)		REMARKS		
	STATION	OFFSET	LT.	RT.	ELEV.*	P.O.A.		A1	A2	OFFSETS (FT) (Z) (POLE ̑ TO ATTACHMENT POINT)					WINDLOAD AREAS (FT <sup>2</sup> ) (X)(Y)										ALTERNATE 1				
										B1	X1	S2	B3	X1	B1	X1	S2	B3	X1						3' RD.	3' SQ.			
1	9+07.2	44.5		X	137.71	0	III	19	35	30.4			26.6	22.4	18.0	9.2			5.0	9.2					900	1000	12'-0"	10'-0"	
2	8+64.1	41.7	X		137.31	0	III	19	35	37.1	33.9	30.8	26.9		9.2			5.0	9.2					1350	1000	13'-0"	11'-0"		
3	8+98.4	27.7		X	137.47		I																						NOTE 1
4	8+69.5	32.2	X		137.40		I																						NOTE 1
5	9+03.0	46.6		X	137.55		PPB																						NOTE 1
6	8+66.3	48.2	X		137.26		PPB																						NOTE 1, INSTALL SQUARE FOUNDATION

\* ELEVATION SHALL MATCH TOP OF SIDEWALK, CURB, OR TRAIL SHOULDER FINISH GRADE AS APPLICABLE.  
NOTE 1: FOR TYPE PS AND PPB POLES, P.O.A. ASSUMED TO BE DUE NORTH FOR 0 DEGREES.

\*\* CALCULATED POLE XYZ (FT<sup>3</sup>) IS THE SUM OF THE TOTAL XYZ (FT<sup>3</sup>) FOR THE SIGNAL ARM AND THE XYZ (FT<sup>3</sup>) FOR THE LUMINAIRE ARM (IF PRESENT).

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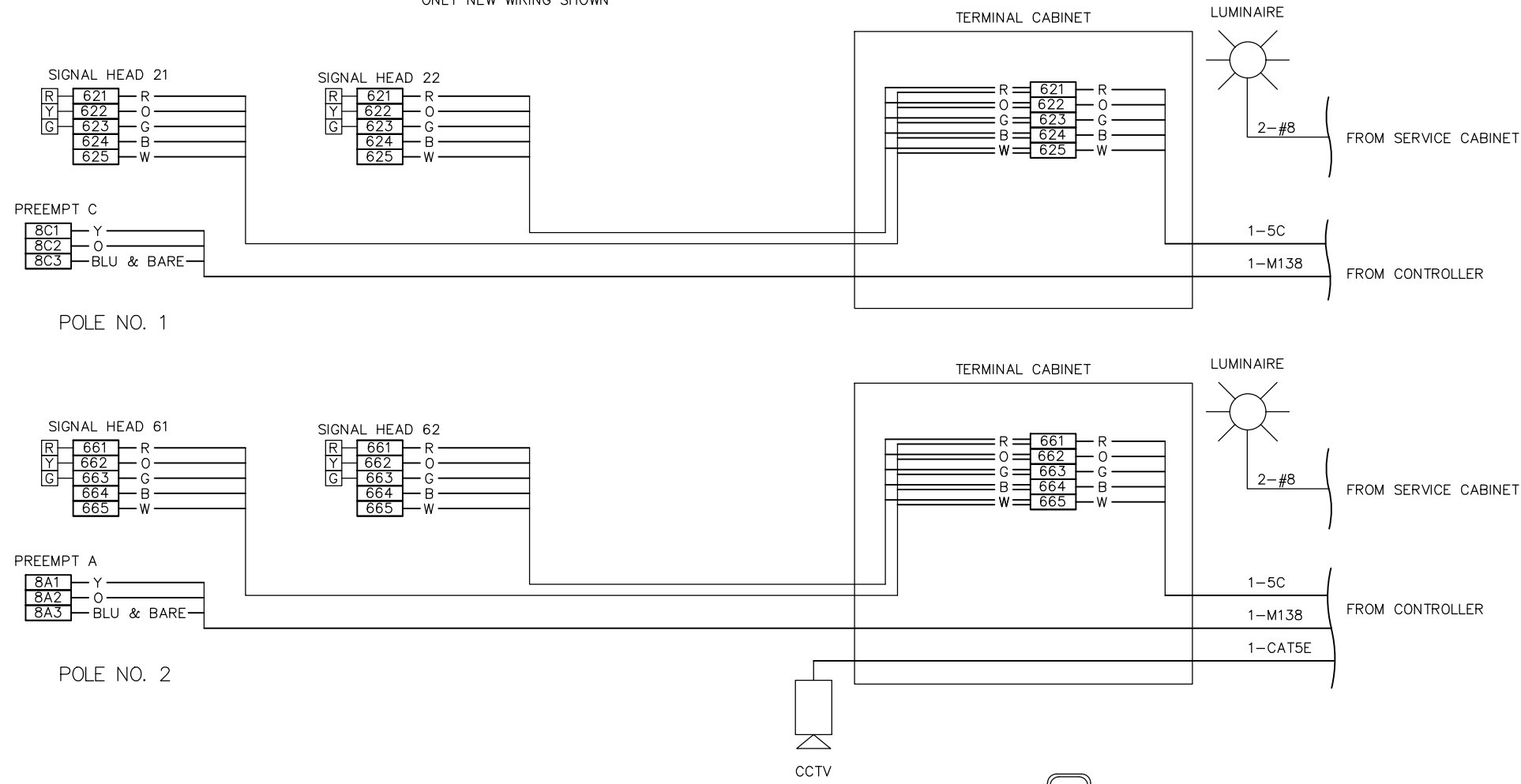
CITY OF KIRKLAND  
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TRAFFIC SIGNAL DETAILS

SHEET:	27 OF 33
SCALE:	NTS
FILENAME:	SG07

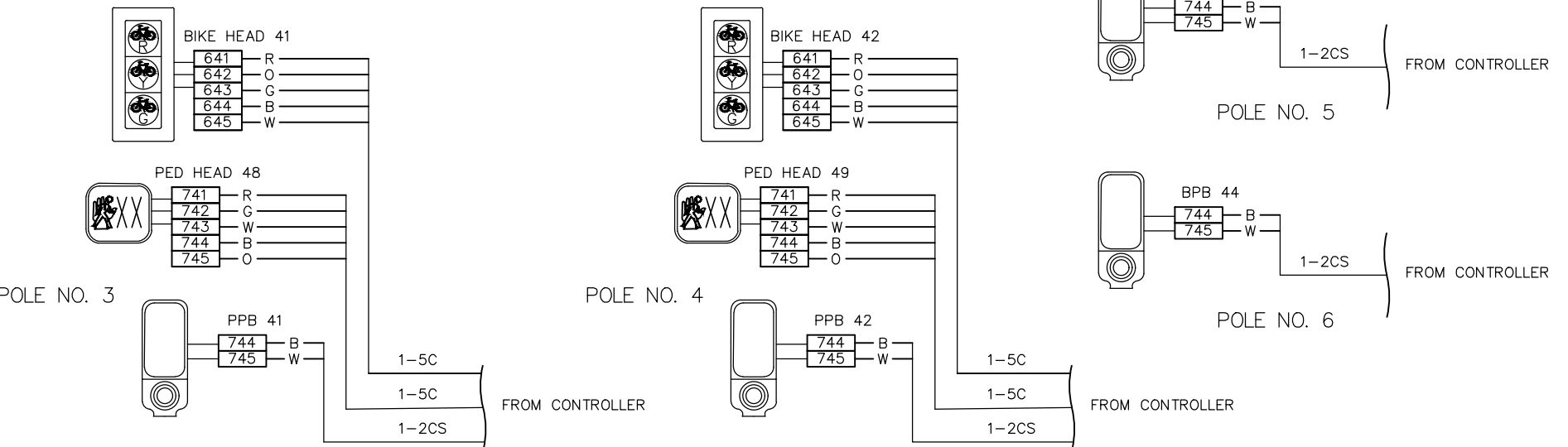
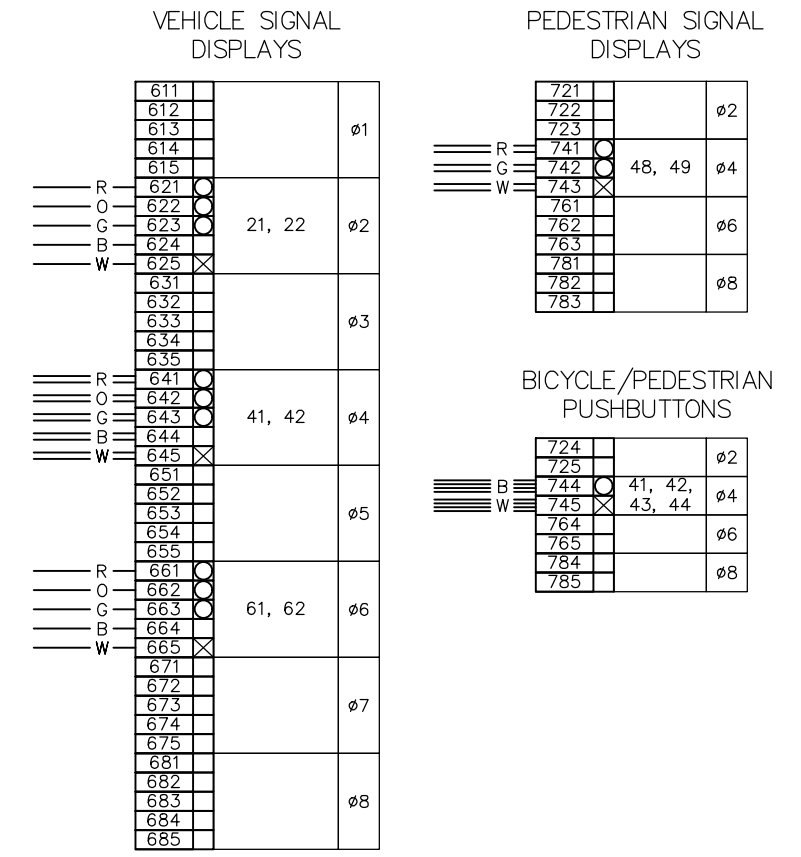
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**FIELD WIRE TERMINATIONS**

ONLY NEW WIRING SHOWN



**CONTROLLER TERMINATIONS**



Service Breaker Schedule		Service No:	NEW SERVICE		
		Name:	City of Kirkland Service 1		
		Station:	9+00		
		Description:	Single Phase/120/240V		
Circuit	Description	Breaker Rating	Voltage	Contactor Size	Load (KVA)
	MAIN BREAKER	200 AMP			
A	MAIN #1	100 AMP	240		
B	SG Cabinet	15 AMP	120		3
C	SPARE	15 AMP	120		0.1
D	SPARE	15 AMP	120		0.1
E	SPARE	15 AMP	120		0.1
F	SPARE	15 AMP	120		0.1
A2	MAIN #2	100 AMP	120		
B2	LTG CKT B2	15 AMP	240	30	1.2
C2	LTG CKT C2	15 AMP	240	30	1.2
D2	LTG CKT D2	15 AMP	240	30	1.2
E2	LTG CKT E2	15 AMP	240	30	0.1
F2	SPARE LTG	15 AMP	240		0.1
	CONTROL	15 AMP	120		0.1
	HEAT	15 AMP	120		0.1
	GFCI	20 AMP	120		0.1
		PEAK			3.8
		CONTINUOUS			3.8

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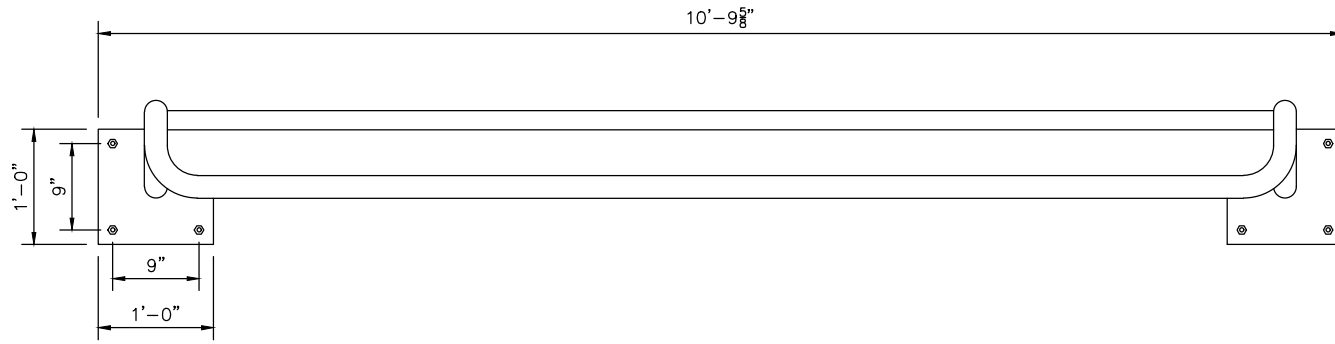
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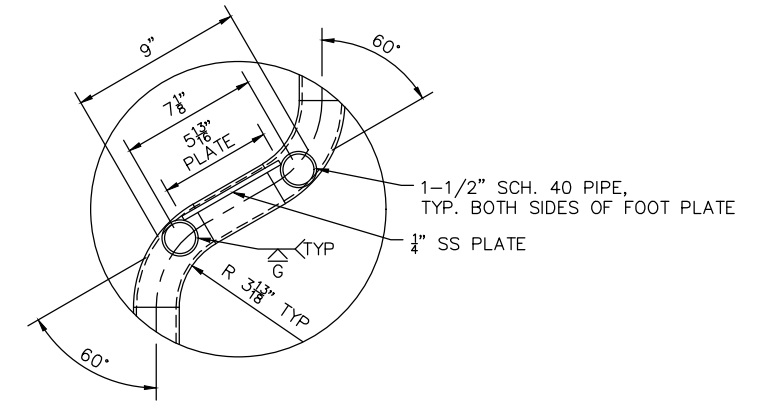
**CITY OF KIRKLAND**  
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SHEET: 28 OF 33  
 SCALE: NTS  
 FILENAME: SG08

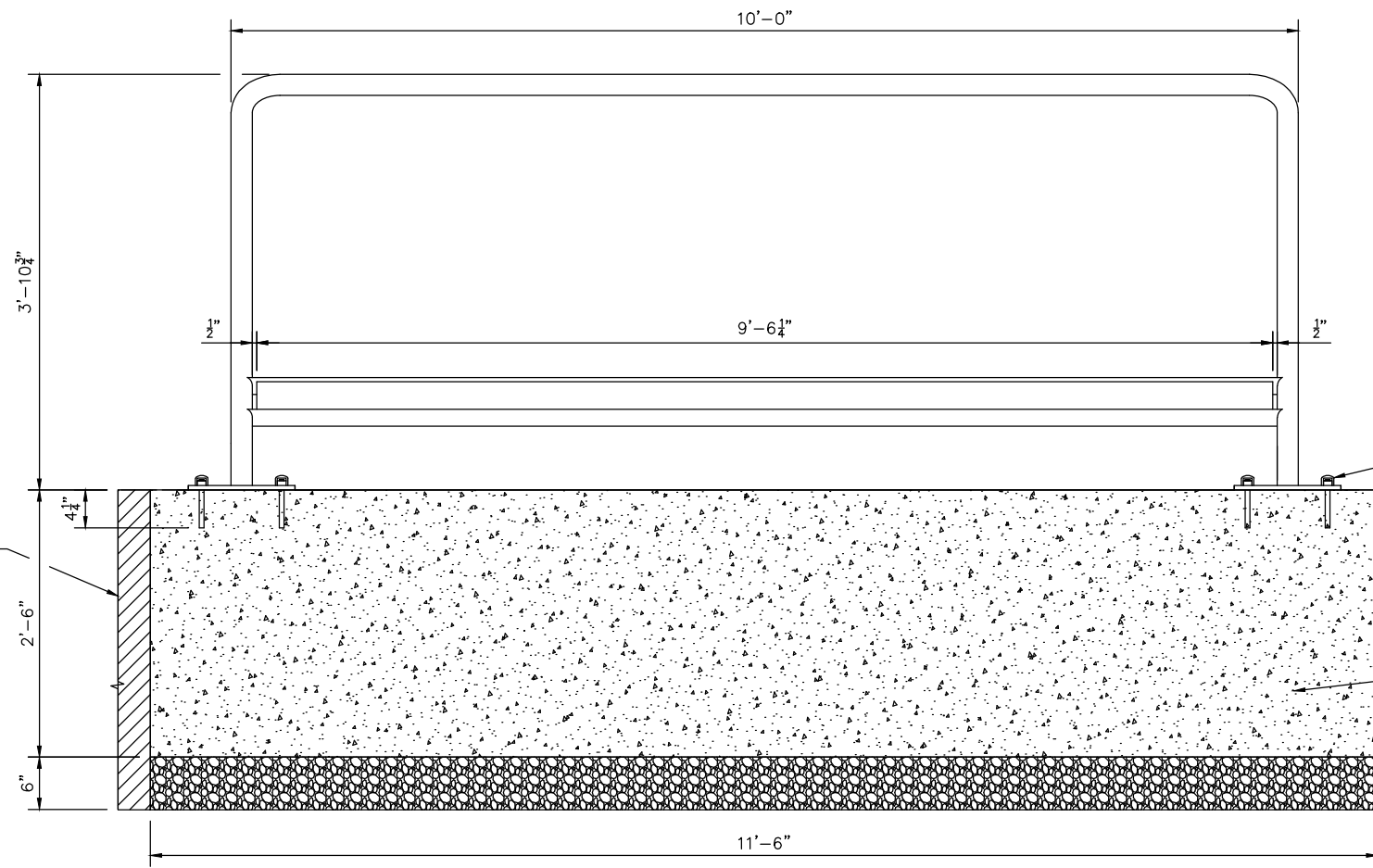
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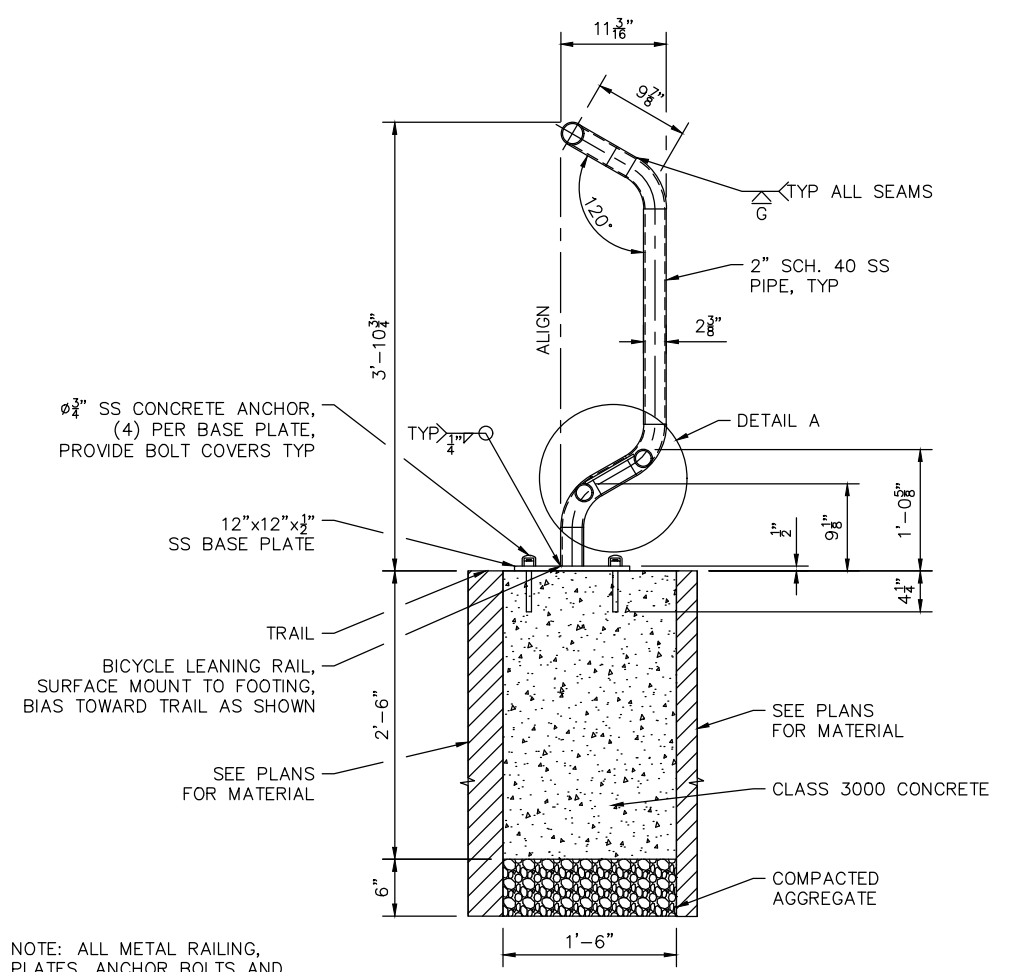
**PLAN**



**DETAIL A**




**ELEVATION**



**SECTION - BICYCLE LEANING RAIL**

NOTE: ALL METAL RAILING, PLATES, ANCHOR BOLTS AND COVER SHALL BE STAINLESS STEEL (SS) WITH BRUSHED FINISHES.

**BID DOCUMENTS**



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719 Second Ave, Suite 1250  
 Seattle, WA 98104  
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 www.dksassociates.com

A. GUIAO	12-06-24
DESIGNED BY:	DATE
C. TOWER	12-06-24
DRAWN BY:	DATE
J. LIU	12-06-24
CHECKED BY:	DATE

CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 DETAILS

SHEET:	29 OF 33
SCALE:	NTS
FILENAME:	SG09

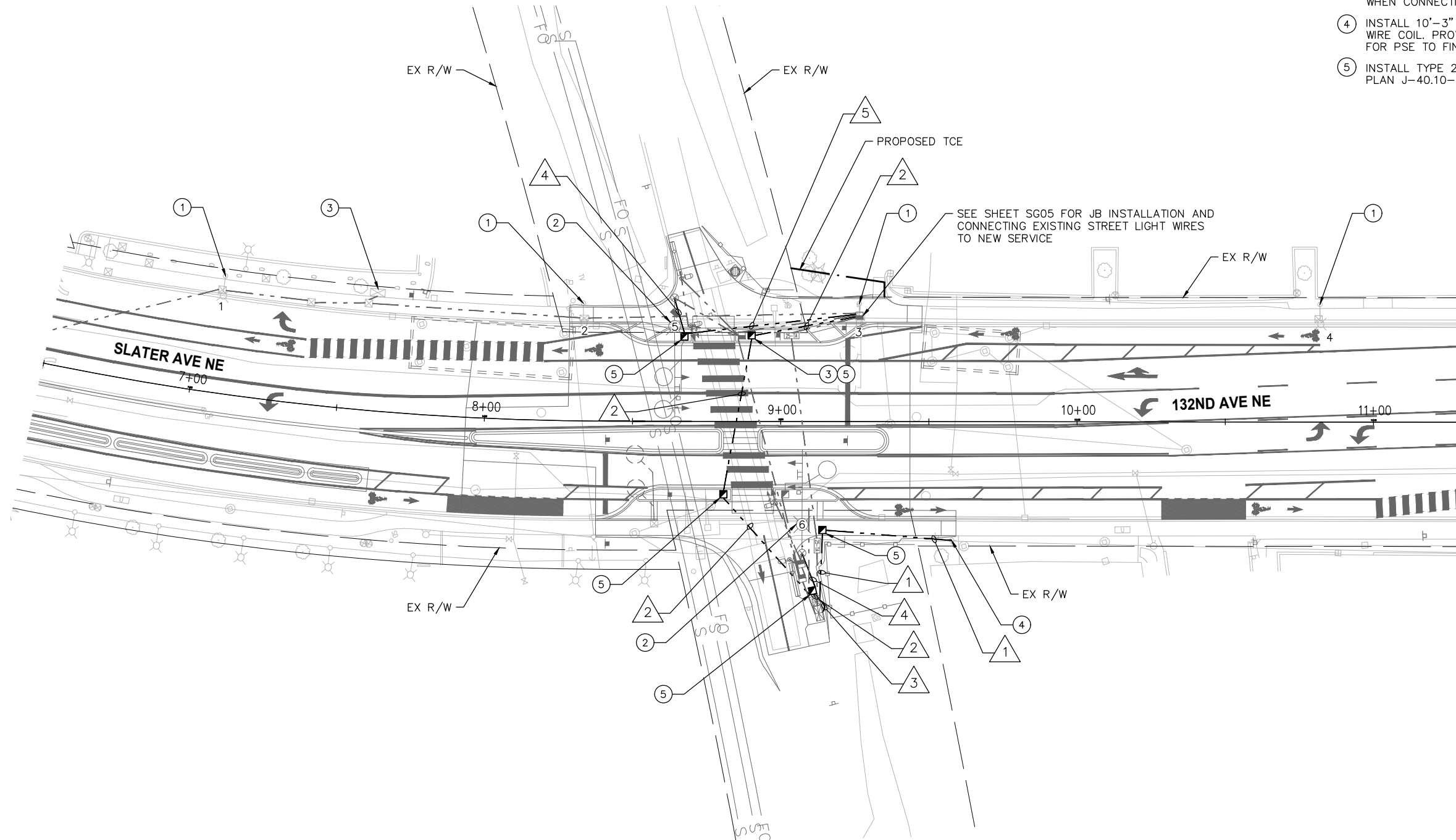
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**GENERAL NOTES:**

1. SEE SHEET IL02 FOR POLE SCHEDULE AND WIRE SCHEDULE.

**CONSTRUCTION NOTES**

- 1 REMOVE EXISTING LUMINAIRE. REPLACE WITH NEW LED LUMINAIRE.
- 2 INSTALL NEW LED FIXTURE ON LUMINAIRE ARM.
- 3 DISCONNECT POWER TO THE THREE LIGHTING CIRCUITS WHEN CONNECTING TO NEW SERVICE.
- 4 INSTALL 10'-3" PVC RISER ON THE POLE, WITH 45' WIRE COIL. PROVIDE 25' RISER AND WEATHER HEAD FOR PSE TO FINISH THE POWER CONNECTION.
- 5 INSTALL TYPE 2 JUNCTION BOX PER WSDOT STD PLAN J-40.10-04.



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SCALE IN FEET

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CITY OF KIRKLAND  
132ND AVE NE & SLATER AVE CROSSING  
NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
ILLUMINATION PLAN

SHEET:  
30 OF 33  
SCALE:  
1" = 40'  
FILENAME:  
IL01

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**ILLUMINATION POLE SCHEDULE**

LUMINAIRE NO	LOCATION	STATION	OFFSET (FT)	POLE TYPE	LUMINAIRE TYPE	FIXTURE MODEL (OR APPROVED EQUAL)	MH* (FT)	ARM* (FT)	CIRCUIT NO	NOTES
1	132ND AVE NE/TRAIL CROSSING	7+6.5	39.5' LT	EX STREET POLE	GCL1 LEOTEK LED COBRAHEAD 3000K TYPE III 105W	GCL1-60G-MV-WW-3R-GY-530	EX 35	EX 12	EXISTING	
2	132ND AVE NE/TRAIL CROSSING	8+32.9	39.8' LT	EX STREET POLE	GCL1 LEOTEK LED COBRAHEAD 3000K TYPE III 105W	GCL1-60G-MV-WW-3R-GY-530	EX 35	EX 12	EXISTING	
3	132ND AVE NE/TRAIL CROSSING	9+26.4	39.7' LT	EX STREET POLE	GCL1 LEOTEK LED COBRAHEAD 3000K TYPE III 105W	GCL1-60G-MV-WW-3R-GY-530	EX 35	EX 12	EXISTING	
4	132ND AVE NE/TRAIL CROSSING	10+81.8	39.7' LT	EX STREET POLE	GCL1 LEOTEK LED COBRAHEAD 3000K TYPE III 105W	GCL1-60G-MV-WW-3R-GY-530	EX 35	EX 12	EXISTING	
5	132ND AVE NE/TRAIL CROSSING	SEE SIGNAL PLANS		SIGNAL POLE	GCL1 LEOTEK LED COBRAHEAD 3000K TYPE III 135W	GCL1-60G-MV-WW-3R-GY-700	35	12	CKT E2	
6	132ND AVE NE/TRAIL CROSSING	SEE SIGNAL PLANS		SIGNAL POLE	GCL1 LEOTEK LED COBRAHEAD 3000K TYPE III 135W	GCL1-60G-MV-WW-3R-GY-700	35	12	CKT E2	

\* EXISTING MOUNTING HEIGHT AND LUMINAIRE ARM LENGTH ARE APPROXIMATED.

**WIRE SCHEDULE**

RUN NO	CONDUIT SIZE	ILLUM #8	GROUND #8	POWER #6	POWER #3/0	GROUND #3/0	NOTES
1	3"				2	1	RGS CONDUIT
2	2"	2	1	6			2#6 FOR EX CKT B2, 2#6 FOR EX CKT C2, 2#6 FOR EX CKT D2, 2#8 FOR NEW CKT E2
3	2"		1	2			
4	2"	2	1				
5	2"	2	1				
	2"						SEE SIGNAL PLAN FOR SIGNAL WIRES

**BID DOCUMENTS**



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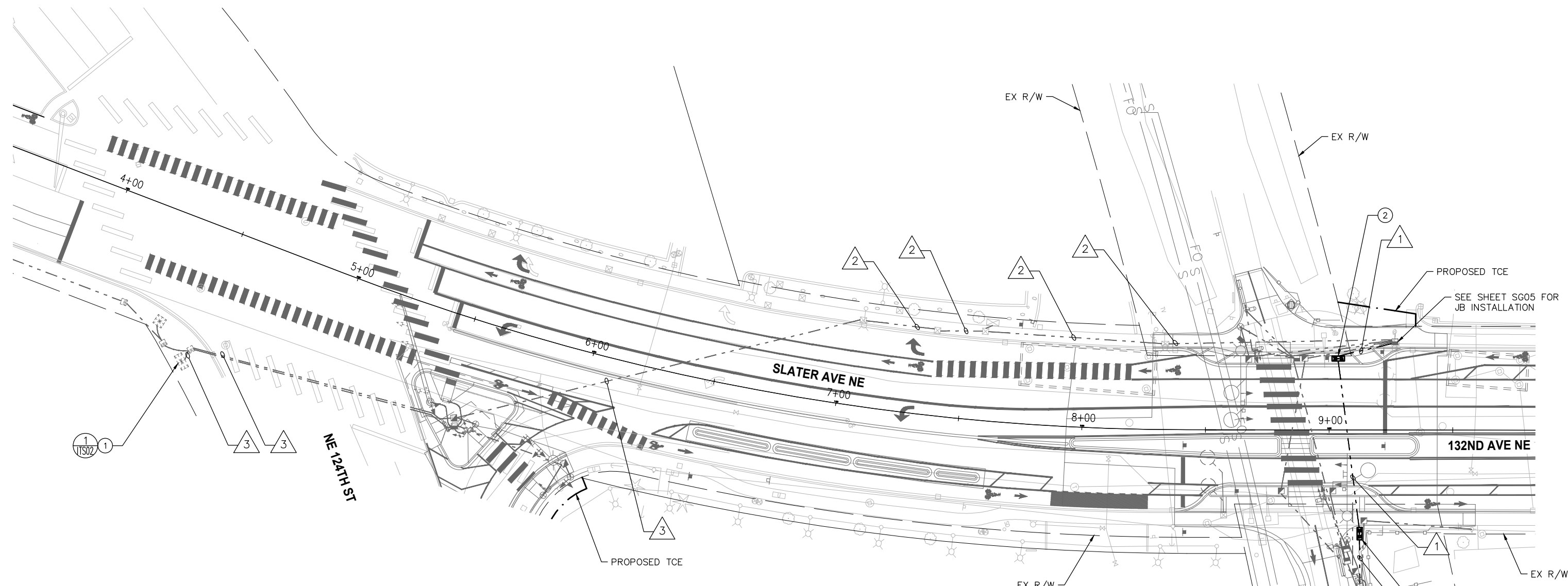
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CITY OF KIRKLAND  
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 ILLUMINATION DETAILS

SHEET:	31 of 33
SCALE:	NTS
FILENAME:	IL02

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**GENERAL NOTE**

CONTRACTOR TO VERIFY EXISTING CONDUITS AND MAKE MODIFICATIONS AS NECESSARY FOR FIBER INSTALLATION.

**CONSTRUCTION NOTES**

- ① CONNECT 12 CT PRETERM STUB FIBER TO THE EXISTING PATCH PANEL.
- ② INSTALL SMALL CABLE VAULT PER WSDOT STD PLAN J-90.21-02..
- ③ CONNECT 12 CT PRETERM STUB FIBER TO THE NEW PATCH PANEL.

**WIRE SCHEDULE**

RUN NO	CONDUIT SIZE	1-12 PRETERM STUB	2CS	COPPER	NOTES
1	3"	1			
2	EX 2"	1	3*	R1	*SEE RUN 7 ON SG06 FOR INFORMATION ON SIGNAL WIRING. SIGNAL WIRES TO BE INSTALLED/TO REMAIN IN THIS CONDUIT
3	EX 2"	1	3*	R1	*SEE RUNS 7, 8, AND 10 ON SG02 FOR INFORMATION ON SIGNAL WIRING. SIGNAL WIRES TO BE INSTALLED/TO REMAIN IN THIS CONDUIT

R: REMOVAL

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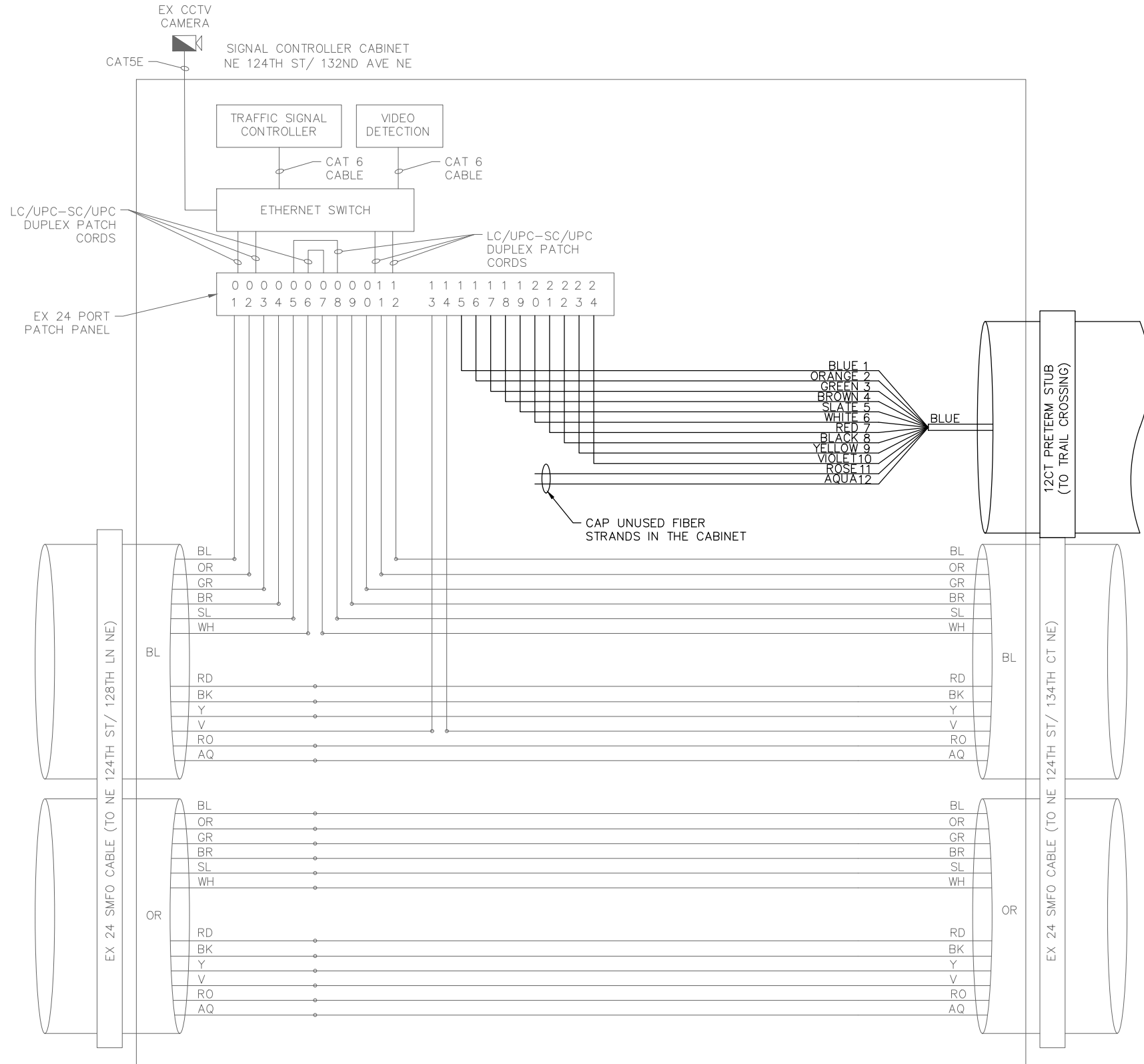
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CITY OF KIRKLAND  
 132ND AVE NE & SLATER AVE CROSSING  
 NE 124TH ST SLATER AVE CROSSING IMPROVEMENTS  
 ITS PLAN

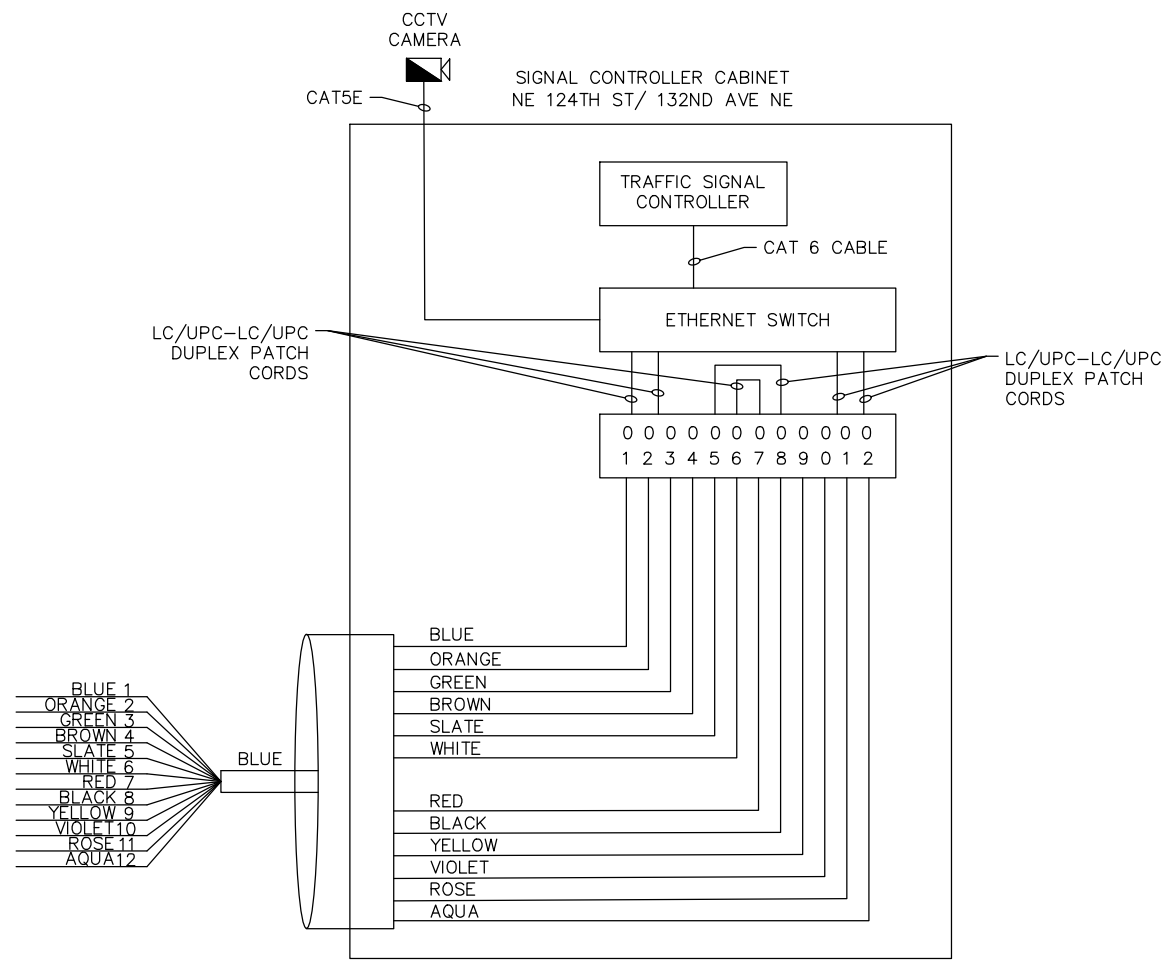
SHEET:	32 OF 33
SCALE:	1" = 40'
FILENAME:	TS01



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**NE 124TH ST/ 132ND AVE NE  
FIBER PATCH PANEL DETAIL 1** ①



**TRAIL CROSSING/ 132ND AVE NE  
FIBER PATCH PANEL DETAIL 2** ②

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ITS DETAILS

SHEET:	33 OF 33
SCALE:	NTS
FILENAME:	TS02