

CONSTRUCTION NOTES

- 1

INSTALL TYPE III SIGNAL STANDARD WITH 45FT MAST ARM AND FOUNDATION PER WSDOT STANDARD PLAN J-26.10. INSTALL THREE VEHICLE SIGNAL HEADS, ONE EVP DETECTOR, ONE VIDEO DETECTION CAMERA, ONE PTZ CAMERA, ONE R10-5 REGULATORY SIGN, AND ONE STREET NAME SIGN ON MAST ARM. INSTALL ONE TERMINAL CABINET, ONE APS PEDESTRIAN PUSHBUTTON ASSEMBLY WITH EXTENDER, AND ONE PEDESTRIAN SIGNAL HEAD ON POLE. INSTALL 133W LEOTEK LED LUMINAIRE FIXTURE (GC1-60F-MV-NW-3-GY-700-PCR7) AT 35FT MOUNTING HEIGHT ON A 10FT LUMINAIRE ARM.
- 2

INSTALL TYPE III SIGNAL STANDARD WITH 20FT MAST ARM AND FOUNDATION WSDOT STANDARD PLAN J-26.10. INSTALL TWO VEHICLE SIGNAL HEADS, ONE EVP DETECTOR, ONE VIDEO DETECTION CAMERA, ONE R10-12 REGULATORY SIGN, AND ONE STREET NAME SIGN ON MAST ARM. INSTALL ONE TERMINAL CABINET, ONE APS PEDESTRIAN PUSHBUTTON ASSEMBLY, AND ONE PEDESTRIAN SIGNAL HEAD ON POLE. INSTALL 133W LEOTEK LED LUMINAIRE FIXTURE (GC1-60F-MV-NW-3-GY-700-PCR7) AT 35FT MOUNTING HEIGHT ON A 10FT LUMINAIRE ARM.
- 3

INSTALL TYPE III SIGNAL STANDARD WITH 50FT MAST ARM AND FOUNDATION PER WSDOT STANDARD PLAN J-26.10. INSTALL THREE VEHICLE SIGNAL HEADS, ONE EVP DETECTOR, ONE VIDEO DETECTION CAMERA, ONE R10-5 REGULATORY SIGN, AND ONE STREET NAME SIGN ON MAST ARM. INSTALL ONE TERMINAL CABINET, ONE APS PEDESTRIAN PUSHBUTTON ASSEMBLY, AND ONE PEDESTRIAN SIGNAL HEAD ON POLE. INSTALL 133W LEOTEK LED LUMINAIRE FIXTURE (GC1-60F-MV-NW-3-GY-700-PCR7) AT 35FT MOUNTING HEIGHT ON A 10FT LUMINAIRE ARM.
- 4

INSTALL TYPE III SIGNAL STANDARD WITH 40FT MAST ARM AND FOUNDATION PER WSDOT STANDARD PLAN J-26.10. INSTALL TWO VEHICLE SIGNAL HEADS, ONE TENON, ONE EVP DETECTOR, ONE VIDEO DETECTION CAMERA, ONE R10-12 REGULATORY SIGN, AND ONE STREET NAME SIGN ON MAST ARM. INSTALL ONE TERMINAL CABINET, TWO PEDESTRIAN SIGNAL HEADS, AND ONE PEDESTRIAN PUSHBUTTON ASSEMBLY WITH EXTENDER ON POLE. INSTALL 133W LEOTEK LED LUMINAIRE FIXTURE (GC1-60F-MV-NW-3-GY-700-PCR7) AT 35FT MOUNTING HEIGHT ON A 10FT LUMINAIRE ARM.
- 5

INSTALL TYPE PS SIGNAL STANDARD AND FOUNDATION PER WSDOT STANDARD PLANS J-20.16, J-20.20, J-20.26, AND J-21.10. INSTALL ONE APS PEDESTRIAN PUSHBUTTON ASSEMBLY AND ONE PEDESTRIAN SIGNAL HEAD ON POLE. TOP OF FOUNDATION SHALL BE FLUSH WITH FINISHED SIDEWALK.
- 6

INSTALL TYPE PS SIGNAL STANDARD AND FOUNDATION PER WSDOT STANDARD PLANS J-20.16, J-20.20, J-20.26, AND J-21.10. INSTALL ONE APS PEDESTRIAN PUSHBUTTON ASSEMBLY AND ONE PEDESTRIAN SIGNAL HEAD ON POLE. TOP OF FOUNDATION SHALL BE FLUSH WITH FINISHED SIDEWALK.
- 7

INSTALL TYPE PS SIGNAL STANDARD AND FOUNDATION PER WSDOT STANDARD PLANS J-20.16, J-20.20, J-20.26, AND J-21.10. INSTALL ONE APS PEDESTRIAN PUSHBUTTON ASSEMBLY AND ONE PEDESTRIAN SIGNAL HEAD ON POLE. TOP OF FOUNDATION SHALL BE FLUSH WITH FINISHED SIDEWALK.
- 8

INSTALL TYPE PPB POST WITH CURB BASE AND FOUNDATION PER WSDOT STANDARD PLANS J-20.11 AND J-20.26. INSTALL ONE APS PEDESTRIAN PUSHBUTTON ASSEMBLY ON POST. TOP OF FOUNDATION SHALL BE FLUSH WITH FINISHED CURB.
- 9

INSTALL SIGNAL & SERVICE CABINET FOUNDATION PER CITY OF KIRKLAND PRE-APPROVED PLAN CK-TS.04. INSTALL NEW FULLY EQUIPPED TYPE STRETCHED P-PLUS CABINET, TRAFFIC SIGNAL CONTROLLER, AND ALL ASSOCIATED EQUIPMENT AND CONNECT ALL FIELD WIRING. COORDINATE DELIVERY, TESTING, AND INSTALLATION WITH THE CITY OF KIRKLAND TRAFFIC MAINTENANCE CENTER REPRESENTATIVE. COORDINATE CABINET ORIENTATION WITH THE CITY OF KIRKLAND TRAFFIC MAINTENANCE CENTER PRIOR TO CONSTRUCTION. INSTALL ELECTRICAL SERVICE CABINET (SKYLINE #62460-R1) PER CITY OF KIRKLAND PRE-APPROVED PLANS CK-TS.05A, CK-TS.05B, AND CK-TS.05C. CONTRACTOR SHALL VERIFY WITH PUGET SOUND ENERGY THAT CABINET IS COMPLIANT PRIOR TO INSTALLATION. PHOTOELECTRIC CONTROL SHALL BE INSTALLED ON TOP OF SERVICE CABINET.
- 10

INSTALL TYPE 3A INDUCTION LOOP PER WSDOT STANDARD PLANS J-50.05, J-50.12, J-50.15, AND J-50.18 AND CITY OF KIRKLAND PRE-APPROVED PLAN CK-TS.02.
- 11

REMOVE EXISTING RRFB SYSTEM, FOUNDATION, AND ASSOCIATED CONDUIT UPSWEEPS. BACKFILL AND COMPACT VOIDS. SALVAGE EXISTING RRFB PUSHBUTTON TO THE CITY OF KIRKLAND IN GOOD WORKING ORDER FOR RE-USE.
- 12

COORDINATE WITH PUGET SOUND ENERGY AND/OR COMMUNICATIONS PROVIDER(S) TO RELOCATE EXISTING UTILITY POLE AND/OR RAISE EXISTING OVERHEAD LINES, AS NEEDED. OVERHEAD POWER LINES SHALL MAINTAIN A MINIMUM OF 10FT CIRCUMFERENTIAL CLEARANCE TO TRAFFIC SIGNAL/ILLUMINATION EQUIPMENT. OVERHEAD COMMUNICATIONS LINES SHALL NOT CONFLICT WITH TRAFFIC SIGNAL/ILLUMINATION EQUIPMENT AND SHALL NOT OBSTRUCT TRAFFIC SIGNAL INDICATIONS.
- 13

SPLICE EXISTING CITY OF KIRKLAND AERIAL FIBER OPTIC CABLE TO NEW 12CT SMFO CABLE AND ROUTE TO THE TRAFFIC SIGNAL CONTROLLER CABINET.
- 14

RELOCATE EXISTING FIRE HYDRANT.

SIGNAL PHASING

NOT USED			
Ø1	Ø2	Ø3	Ø4
NOT USED			
Ø5	Ø6	Ø7	Ø8

- PROTECTED MOVEMENT
- - - →

PERMITTED MOVEMENT
- ↔

PEDESTRIAN MOVEMENT

SIGNAL HEAD ASSIGNMENT

LED VEHICLE HEADS 31 71	LED VEHICLE HEADS 21, 22 41, 42 61, 62 81, 82	LED COUNTDOWN PEDESTRIAN HEADS 28, 29, 48, 49, 68, 69, 88, 89

LEGEND

DESCRIPTION

PROPERTY LINE

CONSTRUCTION NOTE

SIGNAL POLE CONSTRUCTION NOTE

SIGNAL POLE AND MAST ARM

TYPE PS SIGNAL STANDARD

PEDESTRIAN PUSHBUTTON POST

VEHICLE SIGNAL HEAD

VEHICLE SIGNAL TURN HEAD

PEDESTRIAN SIGNAL HEAD

PEDESTRIAN PUSHBUTTON

EVP DETECTOR

TENON

MAST ARM-MOUNTED SIGN

TRAFFIC SIGNAL CONTROLLER AND ELECTRICAL SERVICE CABINETS

PTZ CAMERA

VIDEO DETECTION CAMERA

VIDEO DETECTION ZONE

LOOP DETECTOR

LUMINAIRE

CHANNELIZATION FEATURE

GROUND-MOUNTED SIGN

CIVIL FEATURE

CEMENT CONCRETE SIDEWALK

PAVEMENT OVERLAY

UTILITY POLE

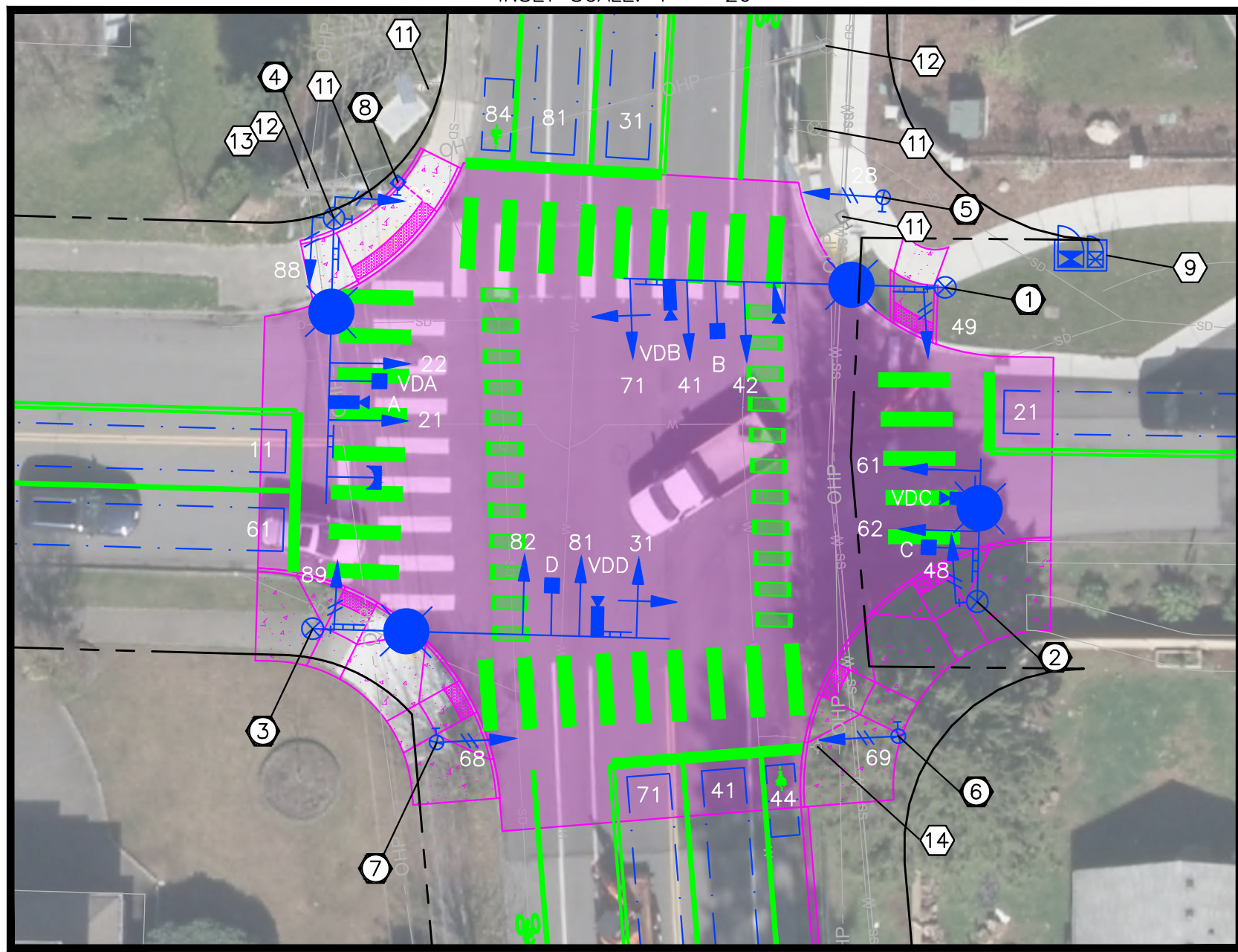
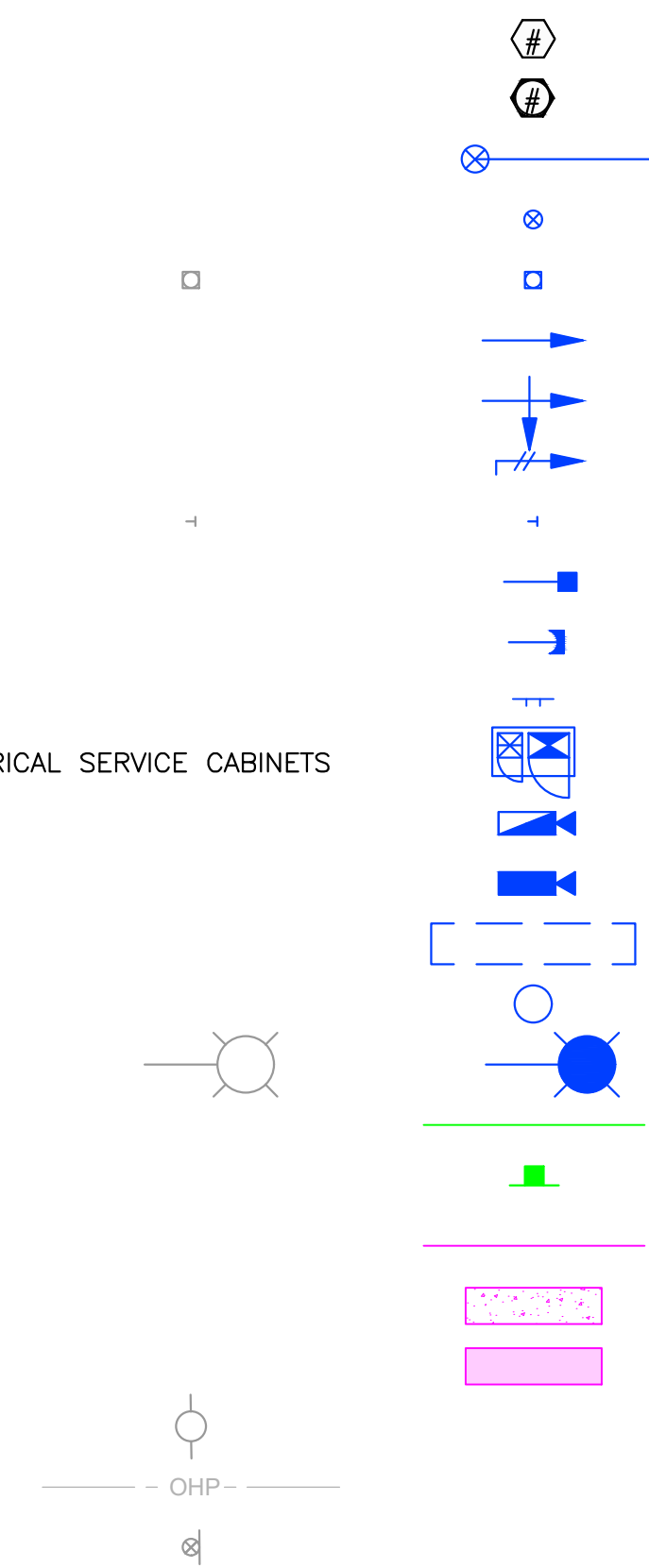
OVERHEAD POWER LINE

RRFB

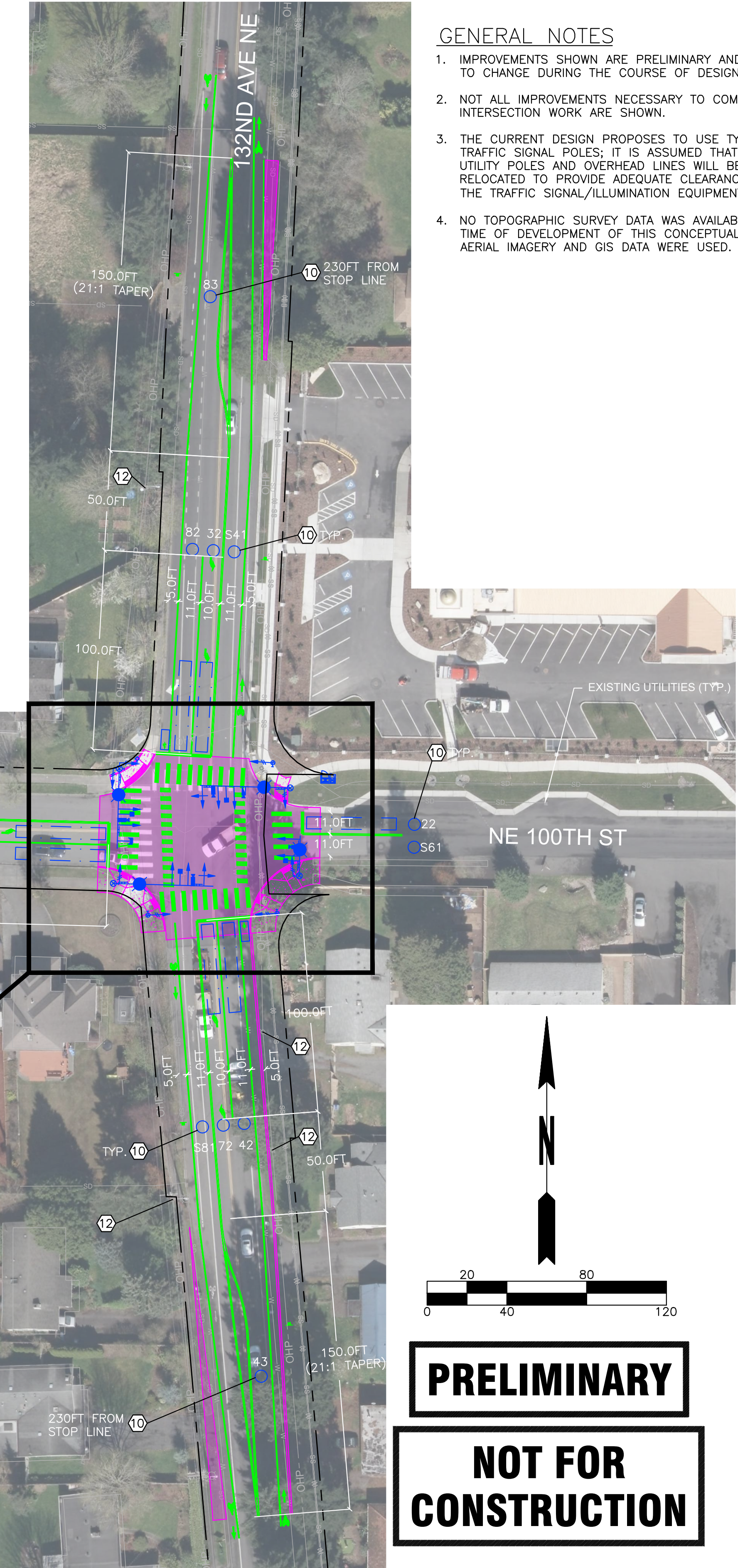
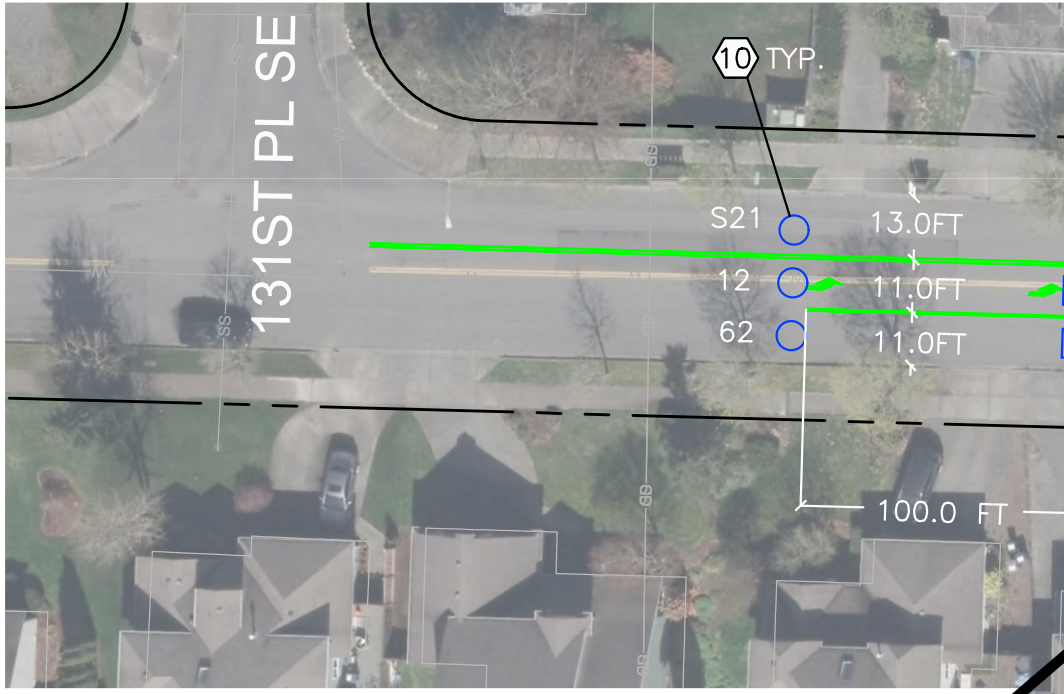
PROJECT CONCEPT DRAWINGS

EXISTING SYMBOL

PROPOSED SYMBOL

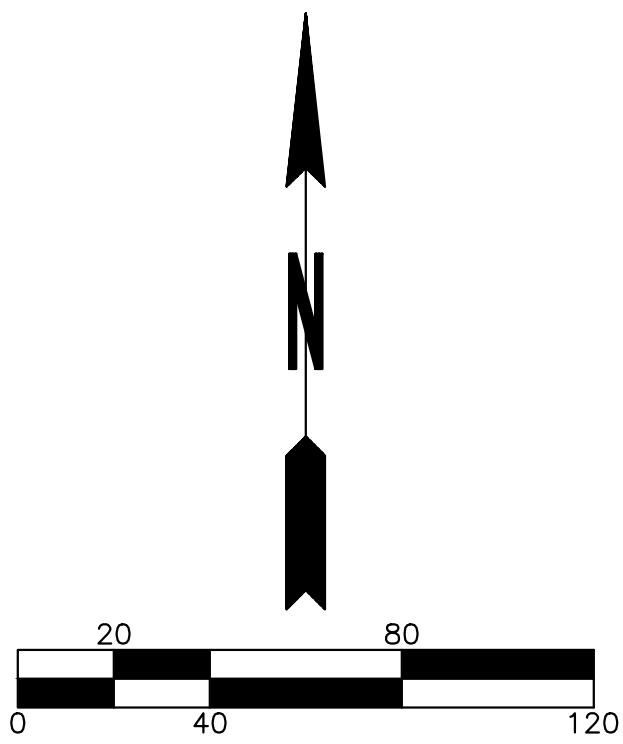


INSET SCALE: 1" = 20'



GENERAL NOTES

1. IMPROVEMENTS SHOWN ARE PRELIMINARY AND SUBJECT TO CHANGE DURING THE COURSE OF DESIGN.
2. NOT ALL IMPROVEMENTS NECESSARY TO COMPLETE THE INTERSECTION WORK ARE SHOWN.
3. THE CURRENT DESIGN PROPOSES TO USE TYPE III TRAFFIC SIGNAL POLES; IT IS ASSUMED THAT EXISTING UTILITY POLES AND OVERHEAD LINES WILL BE RELOCATED TO PROVIDE ADEQUATE CLEARANCES FROM THE TRAFFIC SIGNAL/ILLUMINATION EQUIPMENT.
4. NO TOPOGRAPHIC SURVEY DATA WAS AVAILABLE AT THE TIME OF DEVELOPMENT OF THIS CONCEPTUAL FIGURE. AERIAL IMAGERY AND GIS DATA WERE USED.



PRELIMINARY

NOT FOR CONSTRUCTION

132nd Ave NE & NE 100th St Intersection Improvement Concept - Option 1

1.22010.00 - Kirkland Transportation Planning and Engineering On-Call

Dec 07, 2022 - 4:44pm justinc M:\221.22010.00 - Kirkland Transportation Planning and Engineering On-Call 2022\Engineering\CAD\Plan Sheets\22010-SGNL-PLAN.dwg Layout: OPT1

December 7, 2022

FIGURE

transpogroup  
WHAT TRANSPORTATION CAN BE.

1