

PARK AVENUE N EXTENSION

RENTON PROJECT NO. CAG-22-265

CONTACTS:

| | | |
|--------------------------------------|---------------------|----------------|
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| PERTEET PROJECT MANAGER | PETER DE BOLOIT, PE | (206) 436-0515 |
| BUILDERS EXCHANGE OF WASHINGTON, INC | | (425) 238-1303 |
| 1 ALLIANCE GEOMATICS | | (425) 598-2200 |

CITY OFFICIALS:

MAYOR:
ARMANDO PAVONE

COUNCIL MEMBERS:

CARMEN RIVERA
RANDY CORMAN, PRESIDENT
VALERIE O'HALLORAN
RYAN McIRVIN
RUTH PÉREZ
ED PRINCE
KIM-KHÁNH VÂN

APPROVED FOR BID

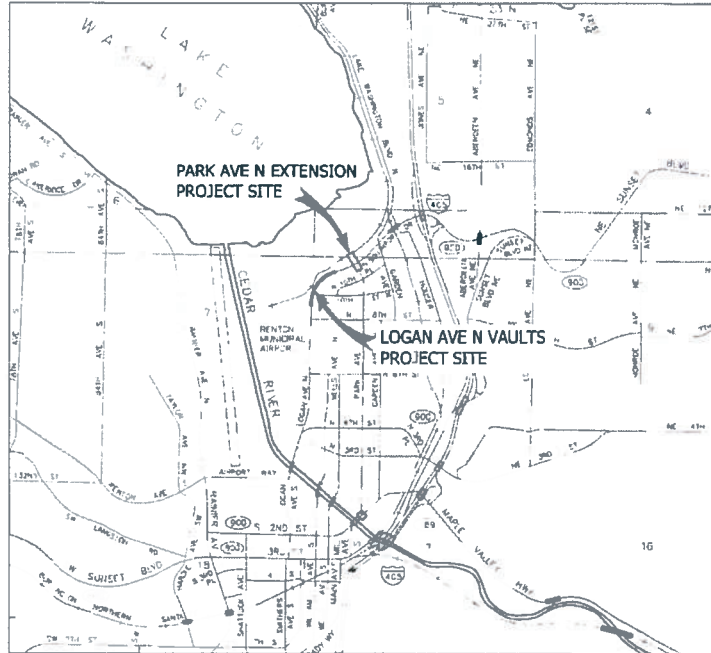


PETER DE BOLOIT
CITY OF RENTON

11/14/22
DATE

GENERAL NOTES

- THE EXISTING TOPOGRAPHIC AND PHYSICAL FEATURES SHOWN ON THESE PLANS ARE BASED ON A COMBINATION OF FIELD SURVEY BY 1 ALLIANCE GEOMATICS AND RECONNAISSANCE BY PERTEET.
- EXISTING CONDITIONS SHOWN ON THESE PLANS WERE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF PLAN PREPARATION. ACTUAL CONDITIONS MAY BE DIFFERENT. THE CONTRACTOR MAY ENCOUNTER VARIATIONS BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN. THESE VARIATIONS WILL NOT BE THE BASIS FOR A CLAIM OF EXTRA COMPENSATION.
- THE LOCATIONS OF EXISTING UNDEGROUND UTILITIES SHOWN ARE APPROXIMATE AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER, CITY OF RENTON OR PERTEET. 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.
- EXISTING UTILITY LOCATES FOR THE DESIGN PHASE OF THIS PROJECT WERE PERFORMED BY APPLICABLE PROFESSIONAL SERVICES. (425) 954-8436
- CONTACT BNSF PRIOR TO ANY WORK WITHIN BNSF RIGHT OF WAY OR ANY WORK AFFECTING GRADE CROSSING OPERATIONS.
- CONTACT BNSF VIA 1-800-933-2881 TO LOCATE ALL UTILITY LOCATIONS PRIOR TO ANY DESIGN WORK WITHIN BNSF RIGHT OF WAY.



VICINITY MAP

NOT TO SCALE

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| NO. | REVISION DESCRIPTION | BY | APP. | DATE |
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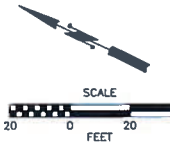
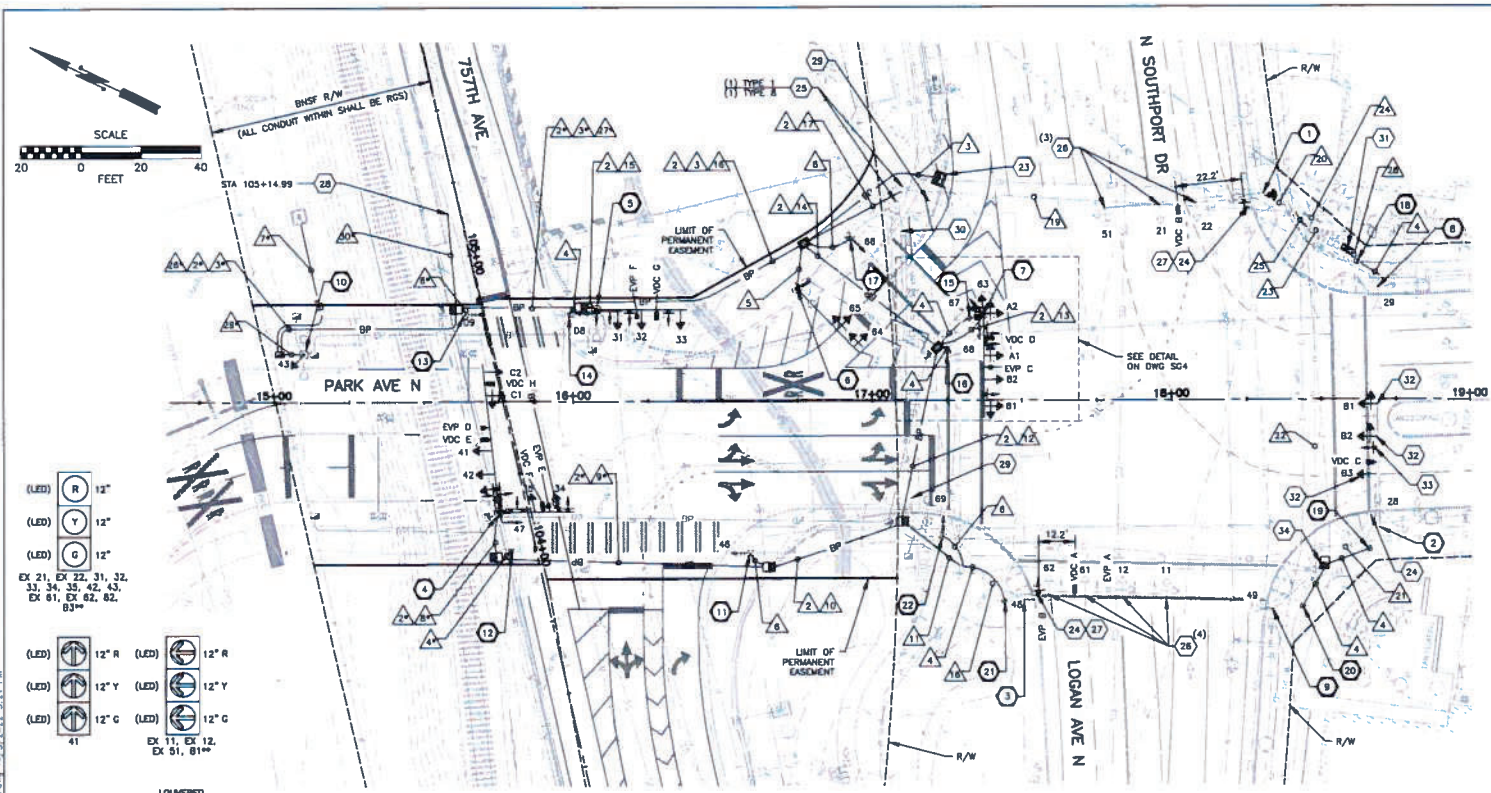
SURVEYED: J. LAMANCE
DRAWN BY: H. EATON
DESIGN BY: J. FENWELL
CHECK BY: P. DE BOLOIT
PROJECT: P. DE BOLOIT
F.E.C. 2016284 OR 404

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CONFORMED SET

CITY OF RENTON
Public Works Department
APPROVED FOR CONSTRUCTION
BY: RMH DATE: 7/27/2023 11:32 AM PST

CITY OF RENTON
PARK AVENUE N EXTENSION
COVER, INDEX AND VICINITY MAP

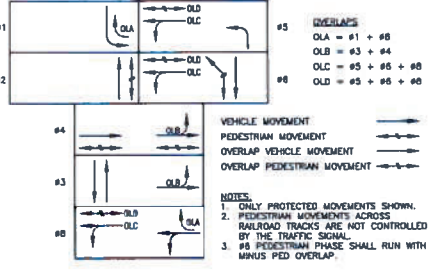
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PROJECT NO: CAG-22-265
FIELD NO: NA
DATE: 8/15/22
SHEET NO: 1 OF 58



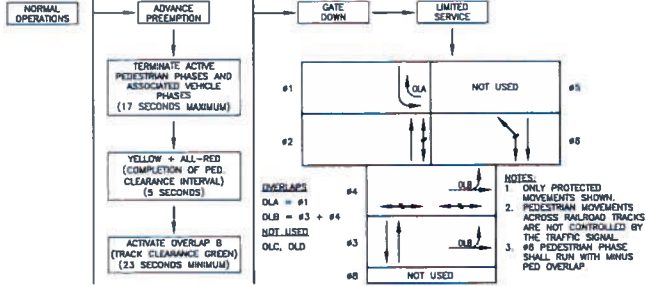
NOTE: OPTICALLY PROGRAMMABLE SIGNAL HEAD TO BE VISIBLE TO SOUTHBOUND TRAFFIC ONLY SOUTH OF RAILROAD TRACKS.



PHASING DIAGRAM - GENERAL



RAILROAD PREEMPTION OPERATIONS



CONSTRUCTION NOTES

- 1 EXISTING DECORATIVE MAST ARM POLE TO REMAIN. INSTALL ONE EMERGENCY VEHICLE PRE-EMPTION GPS EMITTER ON POLE SHAFT. INSTALL ONE VECTOR VIDEO CAMERA ON MAST ARM WHERE SHOWN. EXISTING PTE TO REMAIN.
2 EXISTING DECORATIVE MAST ARM POLE TO REMAIN. INSTALL ONE VECTOR VIDEO CAMERA ON MAST ARM WHERE SHOWN. REMOVE AND SALVAGE EXISTING PUSHBUTTON. REMOVE AND DISPOSE WIRING.
3 EXISTING DECORATIVE MAST ARM POLE TO REMAIN. INSTALL ONE VECTOR VIDEO CAMERA ON MAST ARM WHERE SHOWN. RELOCATE SIGN PER DWG CH1. REMOVE AND SALVAGE EXISTING PUSHBUTTON. REMOVE AND DISPOSE WIRING.
4 CONSTRUCT FOUNDATION PER DETAILS ON ST DRAWINGS. PROVIDE AND INSTALL TYPE SD SIGNAL POLE PER THE DETAILS SHOWN ON THE SIGNAL POLE DRAWING. PROVIDE AND INSTALL SIX VEHICLE SIGNAL HEADS, ONE PEDESTRIAN SIGNAL HEAD, TWO MODEL 721 OPTICOM DETECTORS, THREE RZ-4 ANDR VIDEO DETECTION CAMERAS, ONE R3-2 LED BLANK-OUT SIGN, ONE R3-5R SIGN, ONE R3-6 (MOD) SIGN, ONE D3-101 SIGN, ONE LUMINAIRE ARM ASSEMBLY WITH LED FIXTURE PER R. DRAWINGS AND ONE TERMINAL CABINET, INCLUDING MOUNTINGS.
5 CONSTRUCT FOUNDATION PER DETAILS ON ST DRAWINGS. PROVIDE AND INSTALL TYPE B SIGNAL POLE PER THE DETAILS SHOWN ON THE SIGNAL POLE DRAWING. PROVIDE AND INSTALL THREE VEHICLE SIGNAL HEADS, ONE PEDESTRIAN SIGNAL HEAD, TWO MODEL 721 OPTICOM DETECTORS, ONE RZ-4 ANDR VIDEO DETECTION CAMERA, ONE R3-2 LED BLANK-OUT SIGN, ONE R3-5R SIGN, ONE R3-6 (MOD) SIGN, ONE D3-101 SIGN, ONE LUMINAIRE ARM ASSEMBLY WITH LED FIXTURE PER R. DRAWINGS AND ONE TERMINAL CABINET, INCLUDING MOUNTINGS.
6 CONSTRUCT FOUNDATION PER DETAILS ON ST DRAWINGS. PROVIDE AND INSTALL TYPE B SIGNAL POLE PER THE DETAILS SHOWN ON THE SIGNAL POLE DRAWING. PROVIDE AND INSTALL TWO VEHICLE SIGNAL HEADS, ONE R9-3A SIGN, ONE W3-3 SIGN, ONE LUMINAIRE ARM ASSEMBLY WITH LED FIXTURE PER R. DRAWINGS AND ONE TERMINAL CABINET, INCLUDING MOUNTINGS.
7 CONSTRUCT FOUNDATION PER DETAILS ON ST DRAWINGS. PROVIDE AND INSTALL TYPE B SIGNAL POLE PER THE DETAILS SHOWN ON THE SIGNAL POLE DRAWING. PROVIDE AND INSTALL TWO VEHICLE SIGNAL HEADS, ONE RZ-4 ANDR VIDEO DETECTION CAMERA, ONE PTE CAMERA, ONE R3-6 SIGN, TWO R3-5R SIGNS, ONE D3-101 SIGN, ONE LUMINAIRE ARM ASSEMBLY WITH LED FIXTURE PER R. DRAWINGS AND ONE TERMINAL CABINET, INCLUDING MOUNTINGS.
8 EXISTING DECORATIVE STREET LIGHT POLE TO REMAIN. REMOVE AND SALVAGE EXISTING PUSHBUTTON. REMOVE AND DISPOSE WIRING. PROVIDE AND INSTALL ONE VEHICLE SIGNAL HEAD, INCLUDING MOUNTINGS, ON ILLUMINATION POLE. SEE R. DRAWINGS FOR POLE INFO.
9 CONSTRUCT CURB-BASE FOUNDATION PER WSDOT STD PLAN J-20-11-03 (SHEET 2 OF 2). PROVIDE AND INSTALL TYPE PS POLE PER THE DETAILS SHOWN ON THE SIGNAL POLE DRAWING. PROVIDE AND INSTALL ONE PEDESTRIAN SIGNAL HEAD AND ONE APS PUSHBUTTON, INCLUDING MOUNTINGS.
10 CONSTRUCT CURB-BASE FOUNDATION PER WSDOT STD PLAN J-20-11-03 (SHEET 1 OF 2). PROVIDE AND INSTALL TYPE PPB POST PER THE DETAILS SHOWN ON THE SIGNAL POLE DRAWING. PROVIDE AND INSTALL ONE APS PEDESTRIAN PUSHBUTTON, INCLUDING MOUNTINGS.
11 CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-20-10-04. PROVIDE AND INSTALL TYPE PPB POST PER THE DETAILS SHOWN ON THE SIGNAL POLE DRAWING. PROVIDE AND INSTALL ONE APS PEDESTRIAN PUSHBUTTON, INCLUDING MOUNTINGS.
12 CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-20-10-04 (SHEET 1 OF 2). PROVIDE AND INSTALL TYPE PS POLE PER THE DETAILS SHOWN ON THE SIGNAL POLE DRAWING. PROVIDE AND INSTALL ONE PEDESTRIAN SIGNAL HEAD AND ONE APS PEDESTRIAN PUSHBUTTON, INCLUDING MOUNTINGS. NOTE EXISTING GAS LINE (MORE THAN 5 FEET DEEP) BELOW POLE 22.
13 REMOVE EXISTING JUNCTION BOX. INSTALL TYPE B HEAVY DUTY JUNCTION BOX PER WSDOT STD PLAN J-40-20-03.
14 REMOVE AND SALVAGE EXISTING VIDEO DETECTION CAMERA.
15 REMOVE EXISTING JUNCTION BOX (TYPE AS NOTED) LIO AND INSTALL LIO WITH SUP-RESISTANT COATING.
16 INSTALL 1" RETRO-REFLECTIVE YELLOW TAPE PER BACKPADE DETAIL ON WSDOT STD PLAN J-75-30-02.
17 REMOVE AND SALVAGE EXISTING D3-101 SIGN AND INSTALL NEW D3-101 SIGN. SEE S02.
18 INSTALL BEGING ATTENTION UNIT PER DETAIL ON S04.
19 REMOVE AND SALVAGE EXISTING DECORATIVE STREET LIGHT POLE AND ATTACHMENTS. REMOVE EXISTING WIRING AND CONDUIT. REMOVE AND DISPOSE FOUNDATION. RELOCATE SIGNS PER DWG CH1.
20 REMOVE AND SALVAGE EXISTING DECORATIVE MAST ARM POLE AND ATTACHMENTS. REMOVE EXISTING WIRING AND CONDUIT. REMOVE AND DISPOSE FOUNDATION.
21 REMOVE AND SALVAGE EXISTING SIGNAL CABINET. COIL EXISTING WIRING TO REMAIN. FURNISH AND INSTALL ONE T52 TYPE 1 CONTROLLER CABINET AND ALL ASSOCIATED EQUIPMENT INCLUDING CONTROLLER PER SPECIAL PROVISIONS. RECONNECT EXISTING WIRING TO REMAIN AND CONNECT PROPOSED WIRING.
22 REMOVE AND SALVAGE EXISTING SIGNAL HEAD. INSTALL SIGNAL HEAD ON EXISTING TENDON.
23 REMOVE AND SALVAGE EXISTING R3-5L SIGN. INSTALL R3-6 SIGN IN SAME LOCATION.
24 REMOVE EXISTING JUNCTION BOX. INSTALL TYPE B JUNCTION BOX PER WSDOT STD PLAN J-40-30-04.

Table with columns: NUMBER, REVISION DESCRIPTION, BY, APP, DATE. Includes revision history for the drawing.



SURVEYED LALLIANCE
DRAWN BY H. LATORO
DESIGN BY B. POWELL
CHECK BY P. DE BOLLIT
PROJ. MAN. P. DE BOLLIT
FILE 20180256 SG.dwg

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800-655-9900
CONFORMED SET

CITY OF RENTON
Public Works Department
APPROVED FOR CONSTRUCTION
BY RMH DATE 1/13/2023 11:12 AM PST

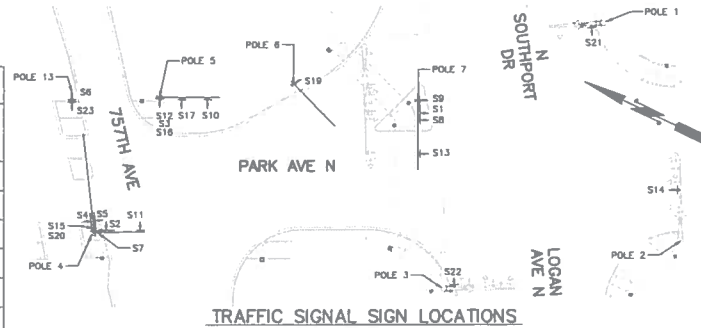
CITY OF RENTON
PARK AVENUE N EXTENSION
TRAFFIC SIGNAL PLAN

DRAWING NO. SG1
PROJECT NO. CAD-22-255
FED AID NO. N/A
DATE: 8/2022
SHEET NO. 30 OF 36

TRAFFIC SIGNAL POLE SIGNING SCHEDULE

| SIGN NO. | POLE NO. | LEGEND | WSDOT SIGN CODE | WIDTH (IN) | HEIGHT (IN) | MOUNTING LOCATION | FACING | NOTES |
|----------|----------|-----------------------------------|-----------------|------------|-------------|-------------------|--------|--|
| S1 | 7 | ← Logan Ave N N Southport Dr → | 03-101 | 156 | 42 | MAST ARM | SC | ADJACENT TO POLE SHAFT |
| S2 | 4 | Park Ave N | 03-101 | 98 | 24 | 25' MAST ARM | NE | ADJACENT TO POLE SHAFT |
| S3 | 5 | | | | | POLE SHAFT | SW | CANTILEVERED (SEE DETAIL ON DWG SG4) |
| S21 | 1 | | | | | MAST ARM | SW | USE EXISTING MOUNTING |
| S22 | 3 | 757th Ave | 03-101 | 90 | 24 | 50' MAST ARM | NW | ADJACENT TO POLE SHAFT |
| S4 | 4 | | | | | 50' MAST ARM | SE | OPPOSITE S4 |
| S5 | 4 | No Left Turn | R3-1 | 30 | 30 | POLE SHAFT | NE | |
| S20 | 4 | | | | | POLE SHAFT | NE | ABOVE SIGN S19 |
| S8 | 7 | | | | | MAST ARM | SE | ADJACENT TO SIGNAL HEAD A1 |
| S9 | 7 | ONLY | R3-SR | 30 | 38 | POLE SHAFT | SE | ABOVE SIGNAL HEAD A2 |
| S10 | 5 | | | | | MAST ARM | SW | ADJACENT TO SIGNAL HEAD 33 |
| S11 | 4 | LEFT TURN YIELD ON GREEN | R10-12 | 24 | 30 | MAST ARM | NE | ADJACENT TO SIGNAL HEAD 34 |
| S12 | 5 | | | | | POLE SHAFT | SW | AT MAST ARM MOUNTING HEIGHT |
| S13 | 7 | No Right Turn | R3-8 | 30 | 38 | MAST ARM | SE | ADJACENT TO SIGNAL HEAD B1 |
| S14 | 2 | | | | | MAST ARM | NW | ADJACENT TO SIGNAL HEAD B2 |
| S15 | 4 | No U-Turn | R9-3A | 24 | 24 | POLE SHAFT | NE | |
| S23 | 13 | | | | | POLE SHAFT | SW | |
| S16 | 5 | BLANK-OUT | R3-2 | 24 | 24 | POLE SHAFT | SW | LED BLANK-OUT SIGN TO ACTIVATE DURING RR PREEMPTION BELOW SIGN S12 |
| S17 | 5 | No Right Turn | R3-8 (400) | 30 | 38 | MAST ARM | SW | BETWEEN SIGNAL HEADS 32 AND 32 |
| S7 | 4 | LOOK | R15-8 | 38 | 18 | POLE SHAFT | SC | |
| S18 | 8 | Look Ahead | W3-3 | 38 | 38 | POLE SHAFT | SC | |

NOTE: EXISTING SIGNS NOT SHOWN.
S18 IS NOT USED.



TRAFFIC SIGNAL SIGN LOCATIONS

WIRING SCHEDULE

| NO. | CONDUIT SIZE | SIGNAL SC | E.V. DETECT 3C(S) | P/V DETECT 2C(S) | VDC VIDEO | PTZ VIDEO | TSP CAT5e | RR COM1 12C | BOCING COM1 2C(S) | LED SIGN 3C | TSP POWER | NOTES |
|-----|--------------|-----------|-------------------|------------------|-----------|-----------|-----------|-------------|-------------------|-------------|-----------|--|
| 1 | 2" | | | | | | | | | | | SPARE |
| 2 | 3" | | | | | | | | | | | SPARE |
| 3 | 4" | | | | | | | | | | | SPARE |
| 4 | 1" | | | 1 | | | | | | | | |
| 5 | 3" | 1 | | | | | | | | | | |
| 6 | 2" | 1 | | 1 | | | | | | | | |
| 7 | 2" | | | | | | | 1 | | | | BY BMSF |
| 8 | 3" | 5 | 2 | | 3 | | | | | | | |
| 9 | 3" | 5 | 2 | 1 | 3 | | | | | | | |
| 10 | 3" | 6 | 2 | 2 | 3 | | | | | | | |
| 11 | 3" | 3 | 2 | 2 | 1 | | | | | | | |
| 12 | 3" | 10 | | | | | | | | | | |
| 13 | 3" | 8 | 4 | 4 | 4 | | | | | | | |
| 14 | 4" | 18 | | | | | | | | | | |
| 15 | 3" | 3 | 5 | 8 | 3 | 1 | | | | | | |
| 16 | 3" | 5 | 1 | 2 | 1 | | | 1 | 1 | 1 | | |
| 17 | 4" | 18 | | | | | | | 1 | 1 | 1 | |
| 18 | EX 3" | 3 | 2 | | 1 | | | | | | | REMOVE EX WIRING |
| 19 | EX 3" | 18 | | | | | | | | | | REMOVE EX WIRING |
| 20 | EX 3" | 2 | EX | 1 | | 1 | EX | | | | | EX SPARE |
| 21 | EX 3" | 1 | EX | | | 1 | | | | | | |
| 22 | EX 3" | 3 | EX | | 2 | 1 | | | | | | |
| 23 | EX 3" | 7 | EX | | | | | | | | | |
| 24 | EX 3" | 17 | | | | | | EX | | | | RELOCATE EX TSP WIRES TO RUN 23 AND 25 |
| 25 | 3" | 8 | EX | 1 | | 1 | EX | | | | | |
| 26 | 2" | 1 | | | | | | EX | | | | EX |
| 27 | 2" | 2 | | | 1 | | | | 1 | 1 | | |
| 28 | 2" | 1 | EX | | 1 | | | | | | | |
| 29 | 2" | 1 | | | | | | | | | | |
| 30 | 1" | | | | | | | | | | | |

NOTE: ALL CONDUITS THAT ENTER RAILROAD RIGHT-OF-WAY SHALL BE RGS. THIS IS DENOTED BY * FOLLOWING THE RUN NO. ON DWG SG1.

GENERAL NOTES

- UTILITY LOCATION (1-800-424-5555) PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- ALL JUNCTION BOXES AND CONDUIT RUNS SHALL BE INSTALLED AS SHOWN ON THE PLANS. LOCATIONS SHOWN ARE SCHEMATIC AND THE ENGINEER WILL PROVIDE EXACT LOCATIONS. SEE WSDOT STD PLANS J-1, J-40.10-04, J-40.30-04 AND J-90.10-03.
- COIL 8 FT. OF EACH SC CONDUCTOR FROM EACH MAST ARM MOUNTED SIGNAL HEAD INSIDE THE SIGNAL POLE.
- UNLESS OTHERWISE SPECIFIED, ALL PROPOSED SIGNAL CONDUIT SHALL BE PVC SCH 80 UNDER ROADWAY AND PVC SCH 40 ELSEWHERE.
- EQUIPMENT GROUNDS SHALL BE #4 CONDUCTOR TO THE #4 HOOPS OF SIGNAL POLE OR STREET LIGHT FOUNDATION AND REBAR OF THE SERVICE FOUNDATION PER REC. #8 CONDUCTOR SHALL CONNECT FROM J-BOX TO ELECTRICAL SERVICE CABINET SEE WSDOT STD PLAN J-80.05-01.
- AFS PUSHBUTTONS SHALL BE MOUNTED PER MANUFACTURER REQUIREMENTS AND WSDOT STD PLAN J-20.28-01.
- REMOVAL AND SALVAGE IF APPLICABLE, OF EXISTING TRAFFIC SIGNAL SYSTEM ELEMENTS SHALL BE PAID AS REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
- SEE CITY OF RENTON STD PLAN 135 FOR TRANSPORTATION GENERAL NOTES.
- PROVOC IDENTIFICATION TAG FOR ALL POLES AND FOUNDATIONS PER CITY OF RENTON STD PLAN 139.
- ALL POLES SHALL HAVE FIXED BASES (NOT SLIP BASES).

DISPLAY NOTES

- ALL VEHICLE SIGNAL HEADS SHALL HAVE 12" L.E.D. LENSES. THE HOUSING SHALL BE ALUMINUM AND PAINTED TRAFFIC YELLOW ON BACK WITH A FLAT BLACK FRONT AND 1" YELLOW RETRO-REFLECTIVE BACKPAKE PER WSDOT STD PLAN J-75.30-02 AND STD SPEC 9-28.18.
- VEHICLE HEADS ON MAST ARMS SHALL BE INSTALLED ON TYPE "M" MOUNTING PER WSDOT STD PLAN J-75.30-01. MOUNTING CONNECTION SHALL BE BETWEEN RED AND YELLOW SIGNAL INDICATORS. VEHICLE HEADS ON POLE SHAFTS SHALL BE INSTALLED ON TYPE "Y" MOUNTING PER WSDOT STD PLAN J-75.10-02.
- ALL PEDESTRIAN SIGNAL HEADS SHALL BE COUNTDOWN TYPE AND SOLID (NOT OUTLINED) L.E.D. WITH SYMBOLIC LEGENDS AND "Z-DRAVE" WIRES. THE ALUMINUM HOUSING SHALL BE PAINTED YELLOW WITH FLAT BLACK VISORS.
- PEDESTRIAN HEADS ON PS POLES SHALL BE INSTALLED WITH TYPE "D" MOUNTING PER WSDOT STD PLAN J-75.10-02. PEDESTRIAN HEADS ON ALL OTHER POLES SHALL BE INSTALLED WITH TYPE "E" MOUNTING PER WSDOT STD PLAN J-75.10-02.
- ALL MAST-ARM MOUNTED STREET NAME SIGNS SHALL HAVE SHEETING PER CITY OF RENTON STD PLAN 132 AND BE MOUNTED PER WSDOT STD PLAN C-30.10-04 OR THE DETAIL ON DWG SG4.

EMERGENCY VEHICLE PRE-EMPTION SCHEDULE

| CIRCUIT | PHASE(S) |
|---------|----------|
| A | 1 & 6 |
| B | 2 & 5 |
| C | 8 |
| D | 4 |
| E | 3 |
| F | 3 |

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| NUMBER | REVISION DESCRIPTION | BY | APP. | DATE |
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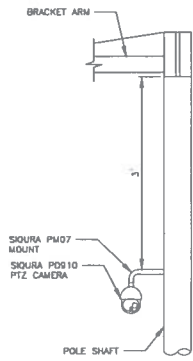
SURVEYED: LALLANJE
DRAWN BY: JLEATON
DESIGN BY: J. BOWELL
CHECK BY: P. DE ROSA
PROJ MGR: P. DE ROSA
FILE: 20160266 SG.dwg

PERTEET
801 2ND AVENUE, SUITE 302
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800-688-9900
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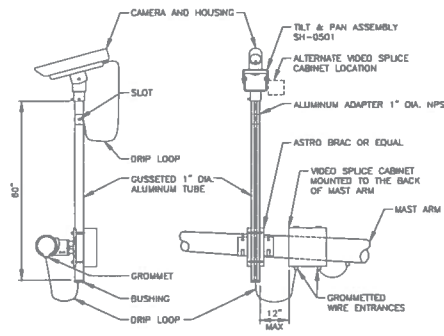
CITY OF RENTON
Public Works Department
APPROVED FOR CONSTRUCTION
BY: RMH DATE: 1/15/2022 3:21 PM

CITY OF RENTON
PARK AVENUE N EXTENSION
TRAFFIC SIGNAL DETAILS

DRAWING NO. **SG2**
PROJECT NO. CAD-22-269
FED AID NO. N/A
DATE: 1/15/2022
SHEET NO. 31 OF 38



PTZ CAMERA
NTS



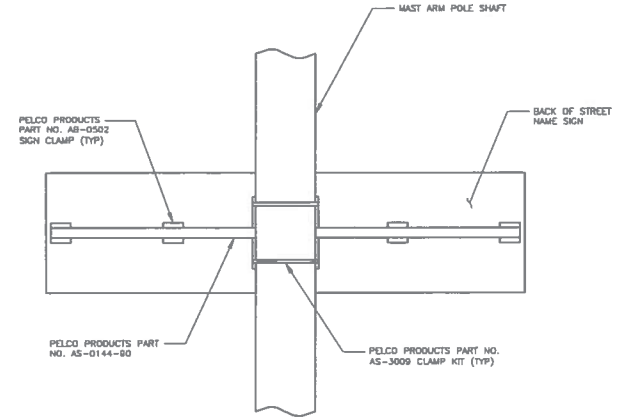
RZ-4 AWDR VIDEO DETECTION CAMERA MOUNT DETAILS
NTS

RZ-4 AWDR VIDEO DETECTION CAMERA MOUNT NOTES

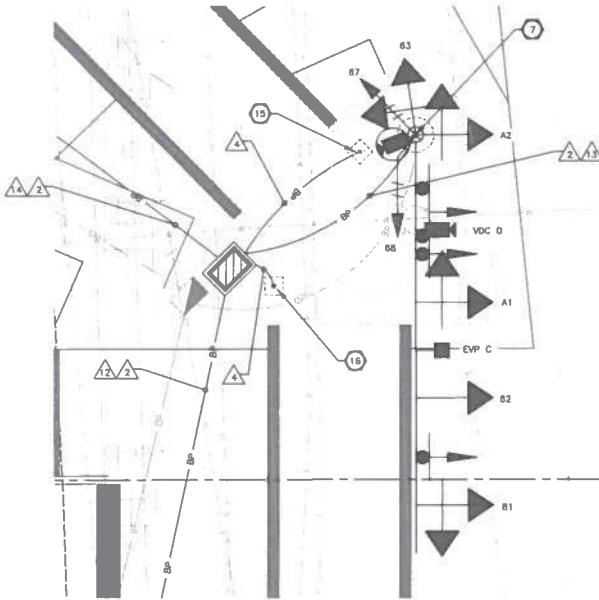
1. ALL GROMMET ENTRANCES SHALL BE SUITABLE FOR THE SIZE AND SHAPE OF CABLE.
2. CAMERA ROTATION IN HOUSINGS TO BE ADJUSTED TO PROVIDE LEVEL MONITOR PICTURE.
3. DRIP LOOP SHALL BE 6 TO 8 INCHES.
4. ALL HARDWARE FASTENERS SHALL BE STAINLESS STEEL, TORQUED TO MANUFACTURER'S RECOMMENDATIONS WITH LOCKNUTS.
5. POWER LEADS SHALL BE INSTALLED W/SUITABLE COPPER OPEN SPACES.
6. BNC CONNECTORS SHALL CONFORM TO VIDEO VENDORS RECOMMENDATION.
7. CONTRACTOR SHALL UTILIZE TOOLS AS RECOMMENDED BY VIDEO VENDOR.
8. TILT AND PAN BRACKET, SENSOR BRACKET SHALL BE ALLOWED ALUMINUM.
9. THE UNIVERSAL HUB PLATE SHALL BE CAST ALUMINUM - 6063-T6.
10. ALL FASTENER PENETRATION OF CABINET SHALL BE SEALED WITH APPROVED METHOD.

VECTOR VIDEO DETECTION CAMERA MOUNT NOTES

1. MOUNT CAMERA TO MAST ARM USING MOUNTING BRACKETS AND INSTRUCTIONS INCLUDED WITH CAMERA KIT.



POLE SHAFT STREET NAME SIGN MOUNTING
NTS



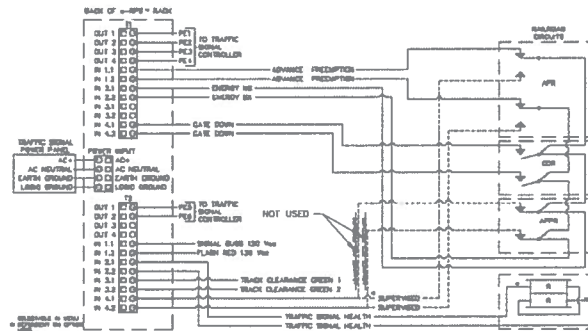
ISLAND SIGNAL EQUIPMENT
SCALE: 1"=5'

OPTION #5

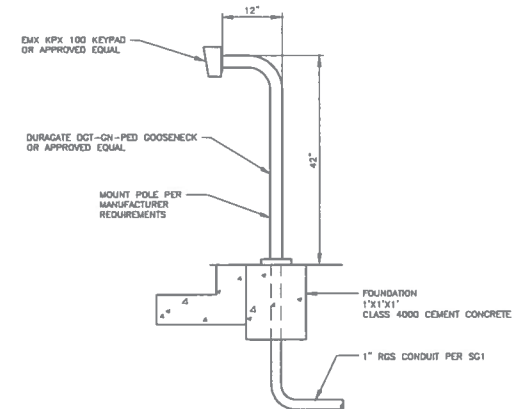
- ADVANCE PEDESTRIAN PREEMPTION INTR/OUTPUT
- ADVANCE PREEMPTION
- GATE DOWN
- DOUBLE BREAK/SUPERVISED
- TRAFFIC SIGNAL HEALTH

PREEMPTION OUTPUTS TO TRAFFIC SIGNAL CONTROLLER

- PE1 - ALL RED FLASH
- PE2 - ADVANCE PREEMPTION
- PE3 - ADVANCE PEDESTRIAN PREEMPTION
- PE4 - DWELL OPERATION/LIMITED SERVICE
- PE5 - UNUSED
- PE6 - UNUSED



RR CIRCUIT WIRING
NTS



BOEING ACTIVATION UNIT
NTS

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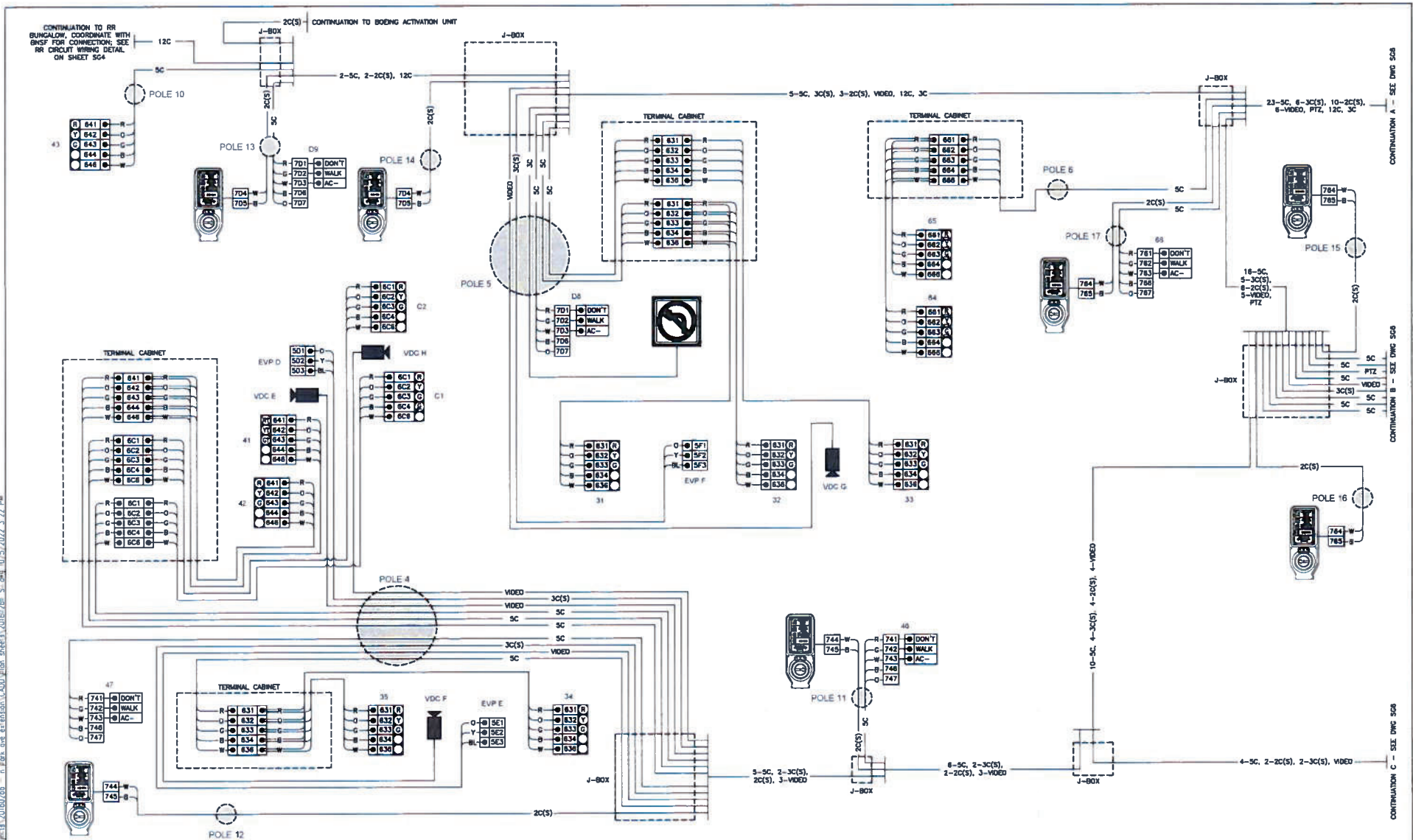
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 DRAWN BY: J. LALLANCE
 DESIGN BY: J. POWELL
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 PROJ MGR: P. DE ROSA
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CITY OF RENTON
 PARK AVENUE N EXTENSION
 TRAFFIC SIGNAL DETAILS

DRAWING NO: **SG4**
 PROJECT NO: CAG-22-265
 FED AID NO: N/A
 DATE: 8/25/22
 SHEET NO: 21 OF 26



CONTINUATION A - SEE DWG SG6

CONTINUATION B - SEE DWG SG6

CONTINUATION C - SEE DWG SG6

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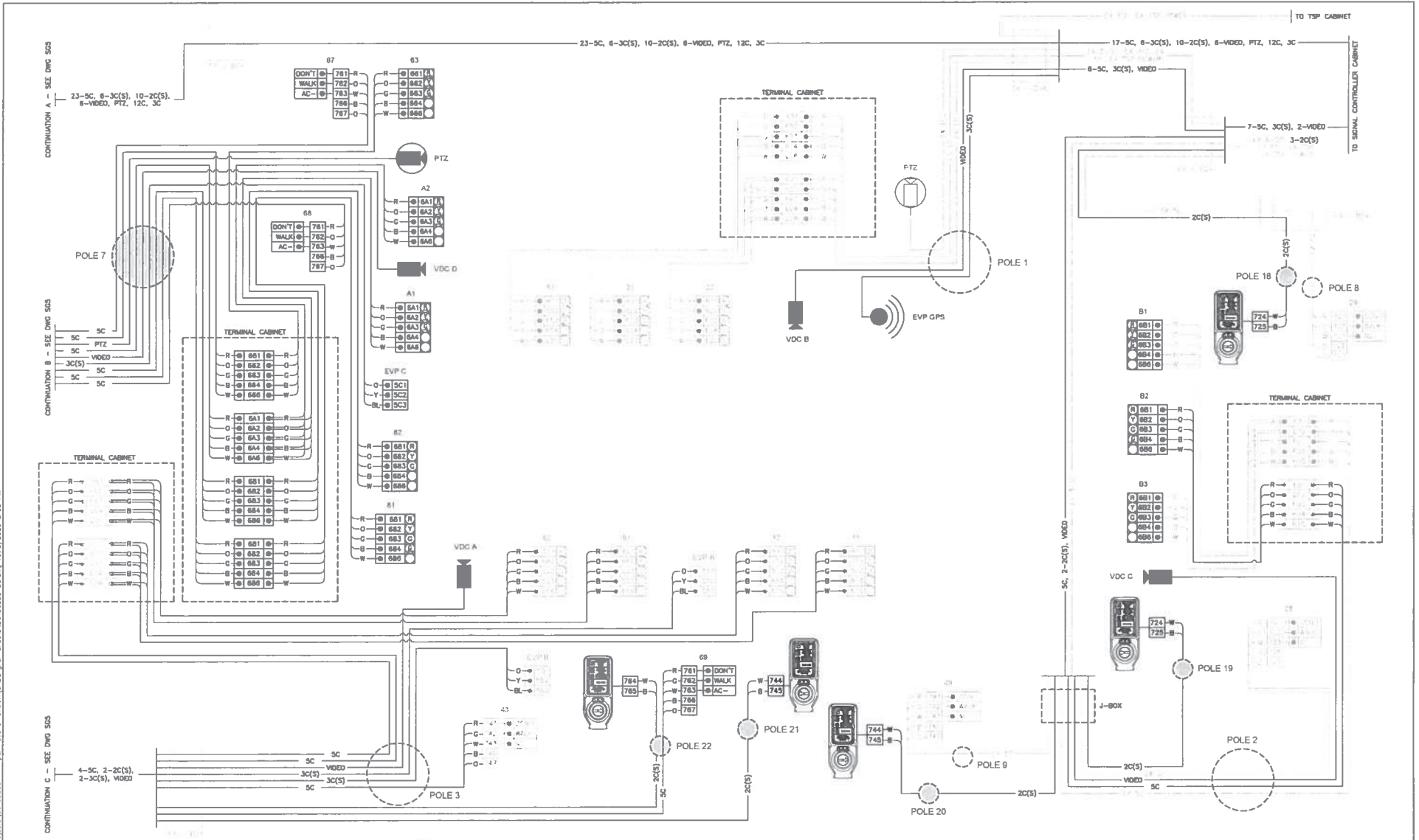
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CITY OF RENTON
 PARK AVENUE N EXTENSION
 TRAFFIC SIGNAL WIRING DIAGRAM

DRAWING NO. SG5
 PROJECT NO. CAD-22-269
 FED AID NO. N/A
 DATE 8/2022
 SHEET NO. 31 OF 31



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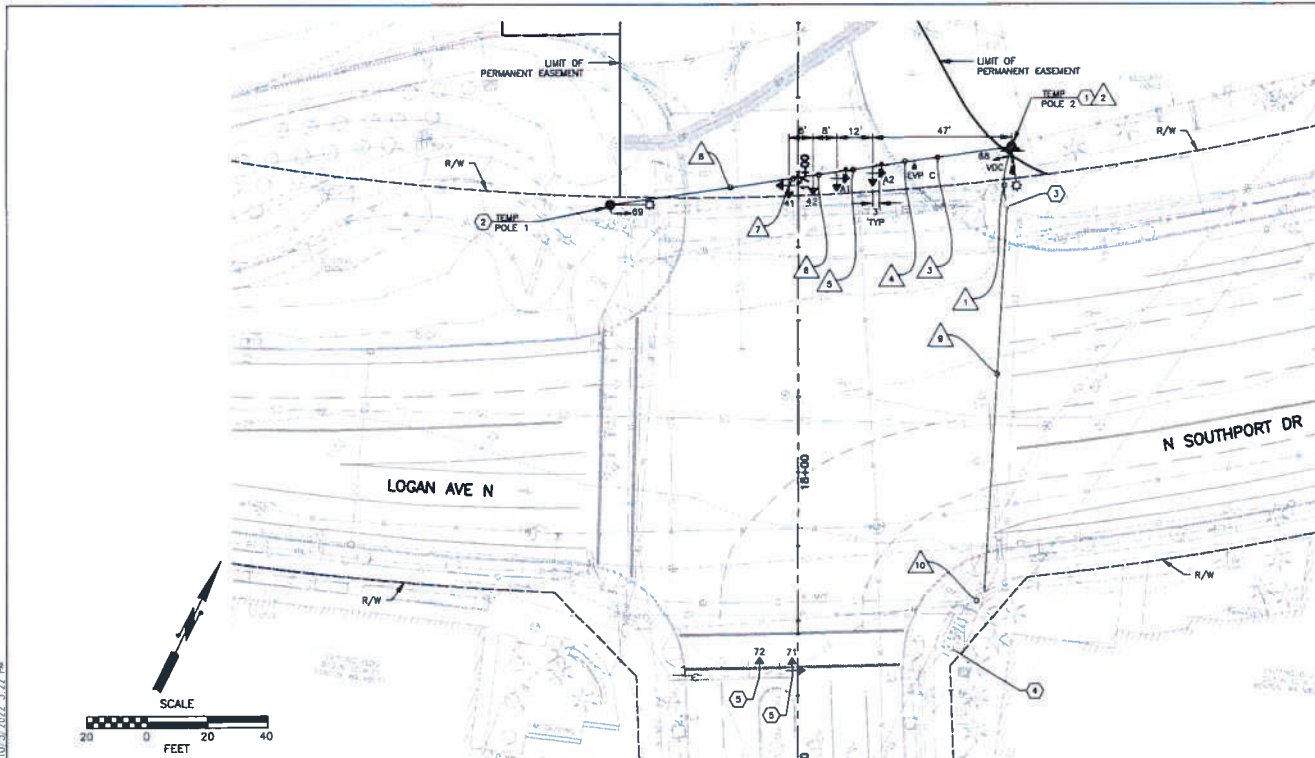
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 PROJECT NO: 201602666
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CITY OF RENTON
 PARK AVENUE N EXTENSION
TRAFFIC SIGNAL WIRING DIAGRAM

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| DRAWING NO: | SG6 |
| PROJECT NO: | CAD-22-265 |
| FED AID NO: | N/A |
| DATE: | 8/2022 |
| SHEET NO.: | 35 OF 58 |



CONSTRUCTION NOTES:

- INSTALL TEMPORARY TIMBER POLE CLASS 1 AT APPROXIMATE STATION 18+81.5 (71.5' LT). INSTALL 12-FOOT BRACKET ARM AND 135-WATT LED FIXTURE. INSTALL POLE-MOUNTED STREET NAME SIGN.
- INSTALL TEMPORARY TIMBER POLE CLASS 1 AT APPROXIMATE STATION 17+11.0 (83.0' RT). INSTALL 12-FOOT BRACKET ARM AND 135-WATT LED FIXTURE.
- EXTEND NEW CONDUIT PER WIRING SCHEDULE INTO EXISTING JUNCTION BOX.
- RE-WIRE SIGNAL CONTROLLER CABINET TO REMOVE PEDESTRIAN ACTUATOR FOR NORTH CROSSWALK.
- REMOVE EXISTING SIGNAL HEAD AND STORE DURING CONSTRUCTION. INSTALL NEW SIGNAL HEAD ON EXISTING MAST TENON AND CONNECT TO EXISTING WIRING.

GENERAL NOTES:

- CONTRACTOR MAY USE EXISTING SIGNAL POLE ATTACHMENTS INCLUDING SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS, EVP DETECTORS, AND TERMINAL CABINETS FROM EXISTING SIGNAL POLES AND MODIFY NECESSARY. COORDINATE WITH ENGINEER FOR APPROVAL.
- ALL SIGNALS HEADS SHALL BE INSTALLED NO GREATER THAN 180 FEET FROM PARK AVE N NORTHBOUND STOP BAR.
- TIMBER POLES SHALL BE PLACED OUTSIDE OF FULL LIMITS SO THAT TEMPORARY POLES CAN REMAIN OPERATIONAL UNTIL FINAL SIGNAL IMPROVEMENTS ARE OPERATIONAL.
- SEE CITY OF RENTON STD PLAN 135 FOR TRANSPORTATION GENERAL NOTES.
- TEMPORARY SPAN WIRE SHALL CONFORM TO REQUIREMENTS OF WSDOT STD PLAN J-15.15-02, INCLUDING MOUNTING HEIGHT REQUIREMENTS. STRAIN POLE AND GUY WIRE INSTALLATION SHALL CONFORM TO SAME WSDOT STD PLAN.
- CONTRACTOR SHALL REMOVE TEMPORARY SIGNAL ITEMS AS DIRECTED BY THE ENGINEER ONCE PERMANENT SIGNAL IS FULLY OPERATIONAL.



S4 POLE-MOUNTED



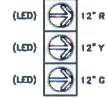
41, 71

S1 SPANWIRE MOUNTED ADJACENT TO SIGNAL HEAD NO. 41



42, 72

S2, S3 SPANWIRE MOUNTED ADJACENT TO SIGNAL HEAD NO. A1 AND A2



A1, A2

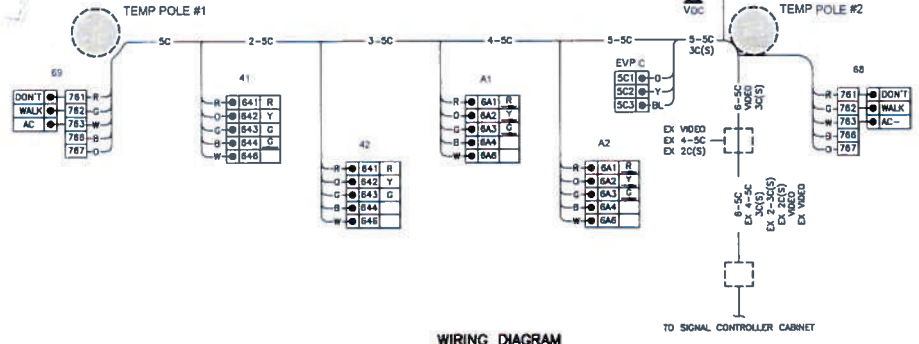


68, 69

SIGNAL HEAD DISPLAY

NTS (SEE DWG S02 FOR SIGNAL DISPLAY NOTES)

| WIRING SCHEDULE | | | | | | | | | | | | | | |
|-----------------|--------------|-----------|-------------------|------------------|-----------|-----------|-----------|-----------|------------|----------------|-----------|-------------|-------------|-------|
| No. | CONDUIT SIZE | SIGNAL SC | E.V. DETECT 3C(S) | P/V DETECT 2C(S) | VDC VIDEO | PTZ VIDEO | PTZ VIDEO | TSP CATS# | RR COM# #4 | SIGN POWER #10 | TSP POWER | LIGHTING #8 | LIGHTING #8 | NOTES |
| 1 | 2" PVC | 6 | 1 | | 1 | | | | | | | | | |
| 2 | 2" PVC | | | | | | | | | | | | 6 | |
| 2 | 2" RISER | 6 | 1 | | 1 | | | | | | | | | |
| 2 | 2" RISER | | | | | | | | | | | | 6 | |
| 3 | SPANWIRE | 5 | 1 | | | | | | | | | | 3 | |
| 4 | SPANWIRE | 5 | | | | | | | | | | | 3 | |
| 5 | SPANWIRE | 4 | | | | | | | | | | | 3 | |
| 6 | SPANWIRE | 3 | | | | | | | | | | | 3 | |
| 7 | SPANWIRE | 2 | | | | | | | | | | | 3 | |
| 8 | SPANWIRE | 1 | | | | | | | | | | | 3 | |
| 9 | EX 3" | 6 4 EX | | | | | | | | | | | | |
| | EX 3" | | 1 2 EX | | 1 1 EX | | | | | | | | | |
| | EX 2" | | | | | | | | | | | 6 EX | 3 EX | |
| | EX 2" | | | | | | | | | | | | | |
| 10 | EX 3" | 6 7 EX | | | | | | | | | | | | |
| | EX 3" | | 1 3 EX | | 1 2 EX | | | | | | | | | |



WIRING DIAGRAM

NTS

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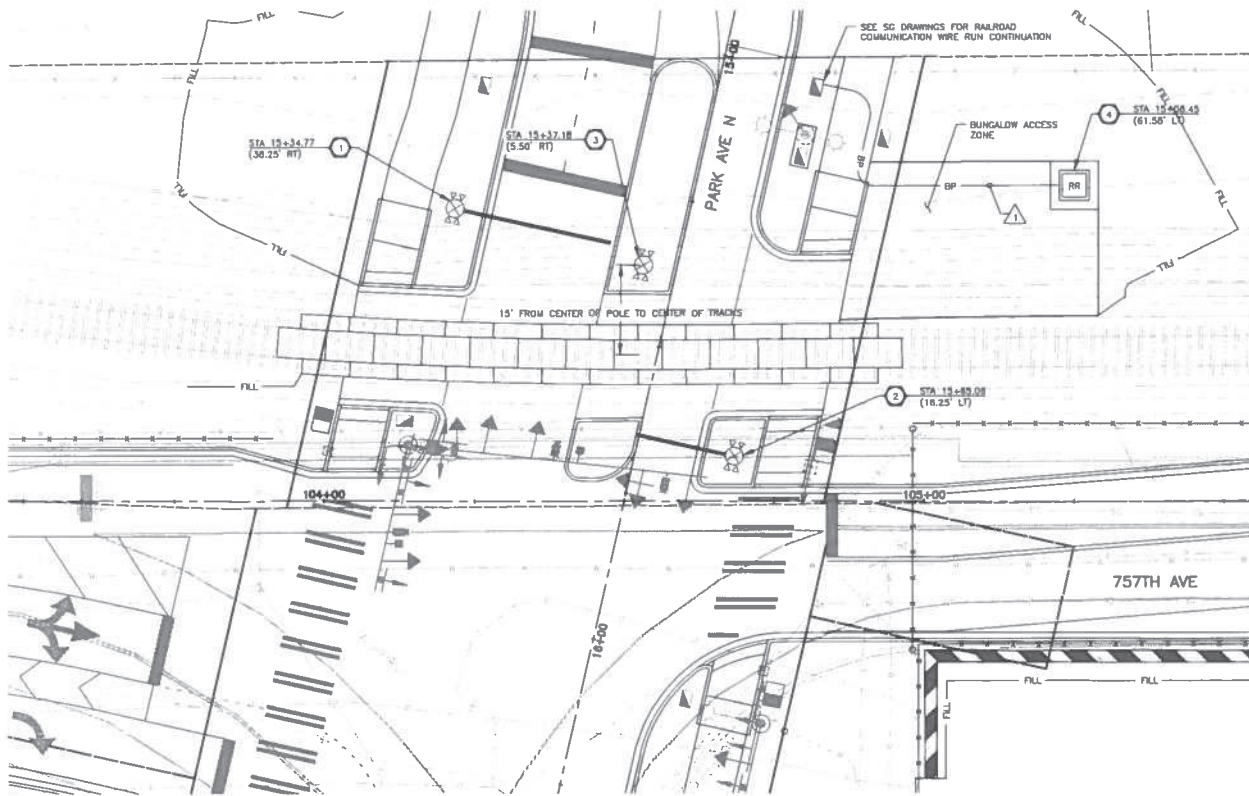
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 DRAWN BY: A. LATHAN
 DESIGN BY: B. POWELL
 CHECK BY: P. DE ROSSET
 PROJ MGR: P. DE ROSSET
 FILE: 20180260 TS.dwg

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CITY OF RENTON
 PARK AVENUE N EXTENSION
 TEMPORARY TRAFFIC SIGNAL PLAN

DRAWING NO: **TS1**
 PROJECT NO: CA20-22-285
 FED AID NO: N/A
 DATE: 8/20/22
 SHEET NO: 36 OF 56



CONSTRUCTION NOTES

- ① OTHERS (BNSF) TO PROVIDE AND INSTALL RAILROAD GATE ASSEMBLY WITH 28.5-FOOT GATE ARM SIMILAR TO DETAIL ON DWG RR2.
- ② OTHERS (BNSF) TO PROVIDE AND INSTALL ROADWAY GATE ASSEMBLY WITH 18.5-FOOT GATE ARM SIMILAR TO DETAIL ON DWG RR2.
- ③ OTHERS (BNSF) TO PROVIDE AND INSTALL FLASHING LIGHT ASSEMBLY SIMILAR TO DETAIL ON DWG RR2.
- ④ OTHERS (BNSF) TO PROVIDE AND INSTALL BUNGALOW AND PAD. OTHERS (BNSF) TO WIRE BUNGALOW.

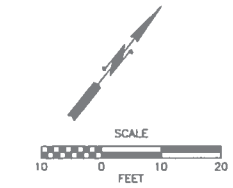
GENERAL NOTES

- 1. BNSF SHALL LOCATE, PROCURE, AND INSTALL ALL CONDUITS, JUNCTION BOXES, AND WIRING. BNSF SHALL PROCURE AND INSTALL BUNGALOW AND COORDINATE WITH PSE FOR POWER, CONDUITS AND JUNCTION BOX LOCATIONS SHOWN SCHEMATICALLY, TO BE PLACED BY BNSF.
- 2. STATION AND OFFSET INFORMATION IS TO CENTER OF POLE/BUNGALOW.
- 3. BNSF TO PROCURE AND INSTALL ALL RAILROAD GATE ASSEMBLIES AND FOUNDATIONS.

WIRING NOTES

- △ 2-#4 PRE-EMPTION COMMUNICATION WIRE RUN IN 1-2" RGS CONDUIT. WIRE RUN CONTIGUES AS PART OF SIGNAL SYSTEM. SEE SG DRAWINGS. COORDINATE WITH OTHERS (BNSF) FOR CONNECTION TO BUNGALOW WIRING AND CONDUIT BY OTHERS (BNSF).

NOTE:
ALL WORK ON THIS SHEET TO BE COMPLETED BY OTHERS (BNSF). CONTRACTOR SHALL INSTALL 1/8" COLLARS PER DETAIL ON SHEET RR2.



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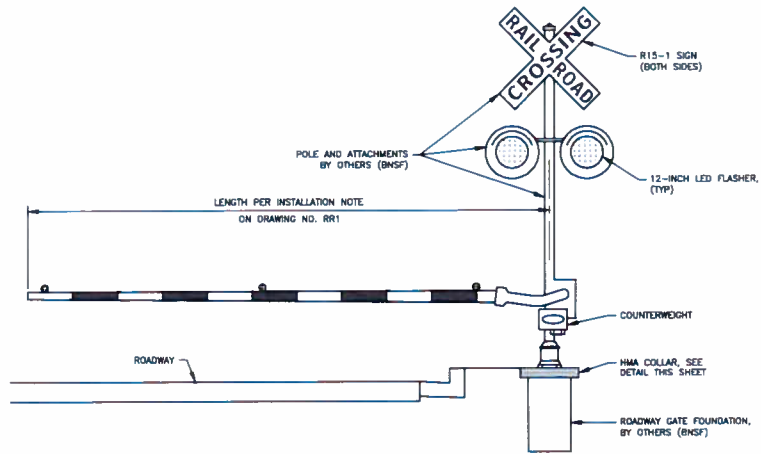
SURVEYED J. LALLANDE
DRAWN BY M. FATON
DESIGN BY B. ROWELL
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PROJ MGR P. DE BOLD
FILE 20180266 RPL.dwg

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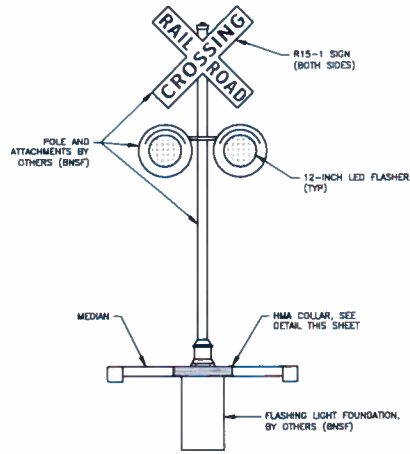
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CITY OF RENTON
PARK AVENUE N EXTENSION
RAILROAD CROSSING PLAN

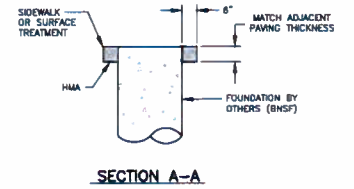
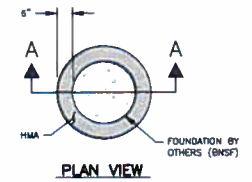
DRAWING NO. **RR1**
PROJECT NO. **CAG-22-029**
FED AID NO. **N/A**
DATE **8/25/22**
SHEET NO. **32** OF **58**



ROADWAY GATE ASSEMBLY
NTS



FLASHING LIGHT ASSEMBLY
NTS



HMA COLLAR
NTS

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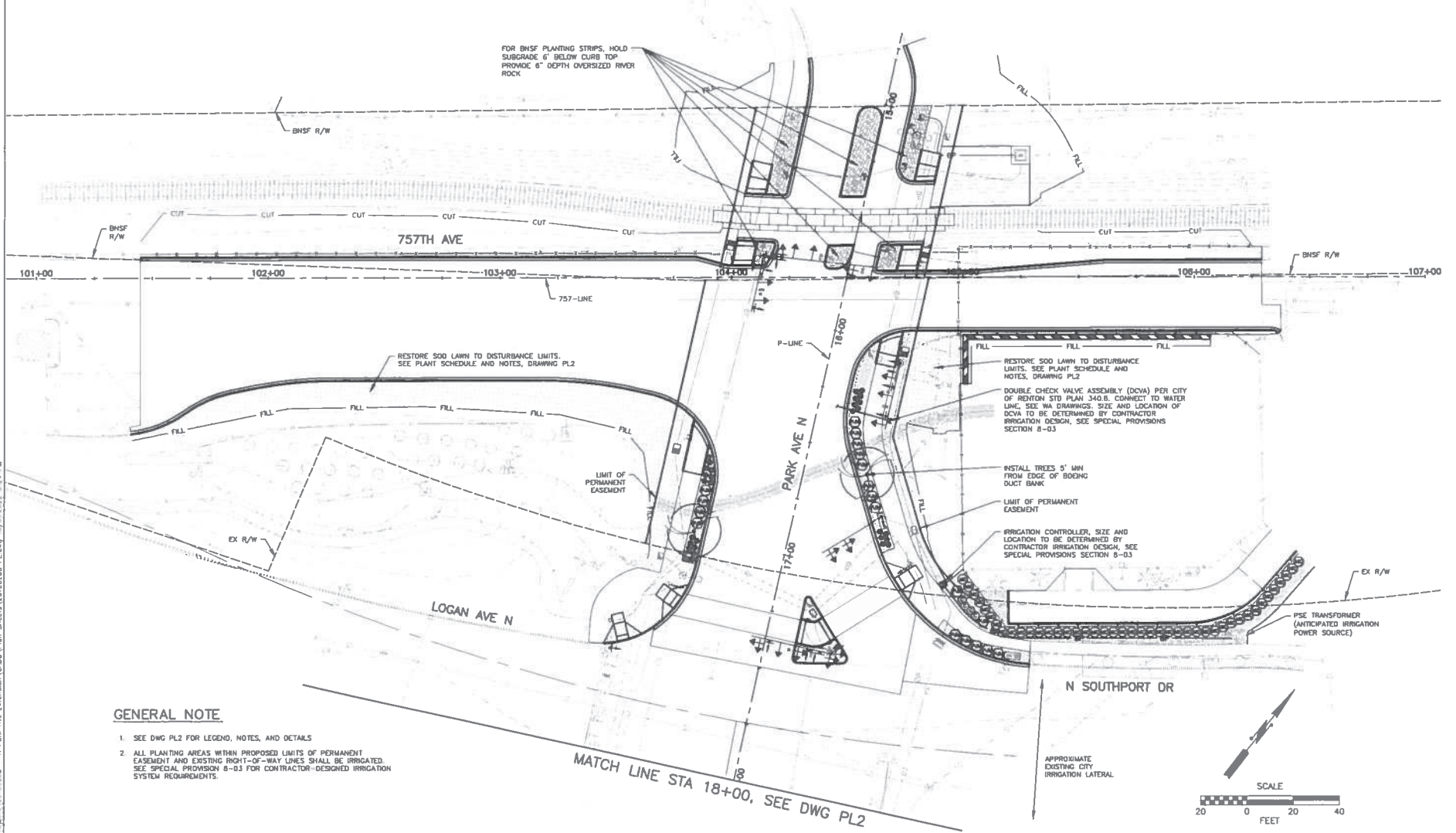


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CITY OF RENTON
PARK AVENUE N EXTENSION
RAILROAD CROSSING DETAILS

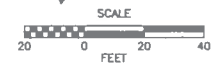
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 PROJECT NO. CACR-22-289
 FED AID NO. N/A
 DATE 8/22/22
 SHEET NO. 38 OF 55

NW ¼ SEC 8, T 23 N, R 5 E, W.M.



GENERAL NOTE

1. SEE DWG PL2 FOR LEGEND, NOTES, AND DETAILS
2. ALL PLANTING AREAS WITHIN PROPOSED LIMITS OF PERMANENT EASEMENT AND EXISTING RIGHT-OF-WAY LINES SHALL BE IRRIGATED. SEE SPECIAL PROVISION 8-03 FOR CONTRACTOR-DESIGNED IRRIGATION SYSTEM REQUIREMENTS.



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 PERFORMED BY: J. BALDWIN
 CHECKED BY: J. BALDWIN
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CITY OF RENTON
 PARK AVENUE N EXTENSION
PLANTING PLAN

DRAWING NO: **PL1**
 PROJECT NO: CAG-22-265
 FED AID NO: N/A
 DATE: 8/20/22
 SHEET NO: 33 OF 58