CITY OF DUVALL

3RD AVENUE NE RECONSTRUCTION

90% REVIEW SUBMITTAL

JANUARY 2025

City of Duvall

Small Town. Real Life.

MAYOR

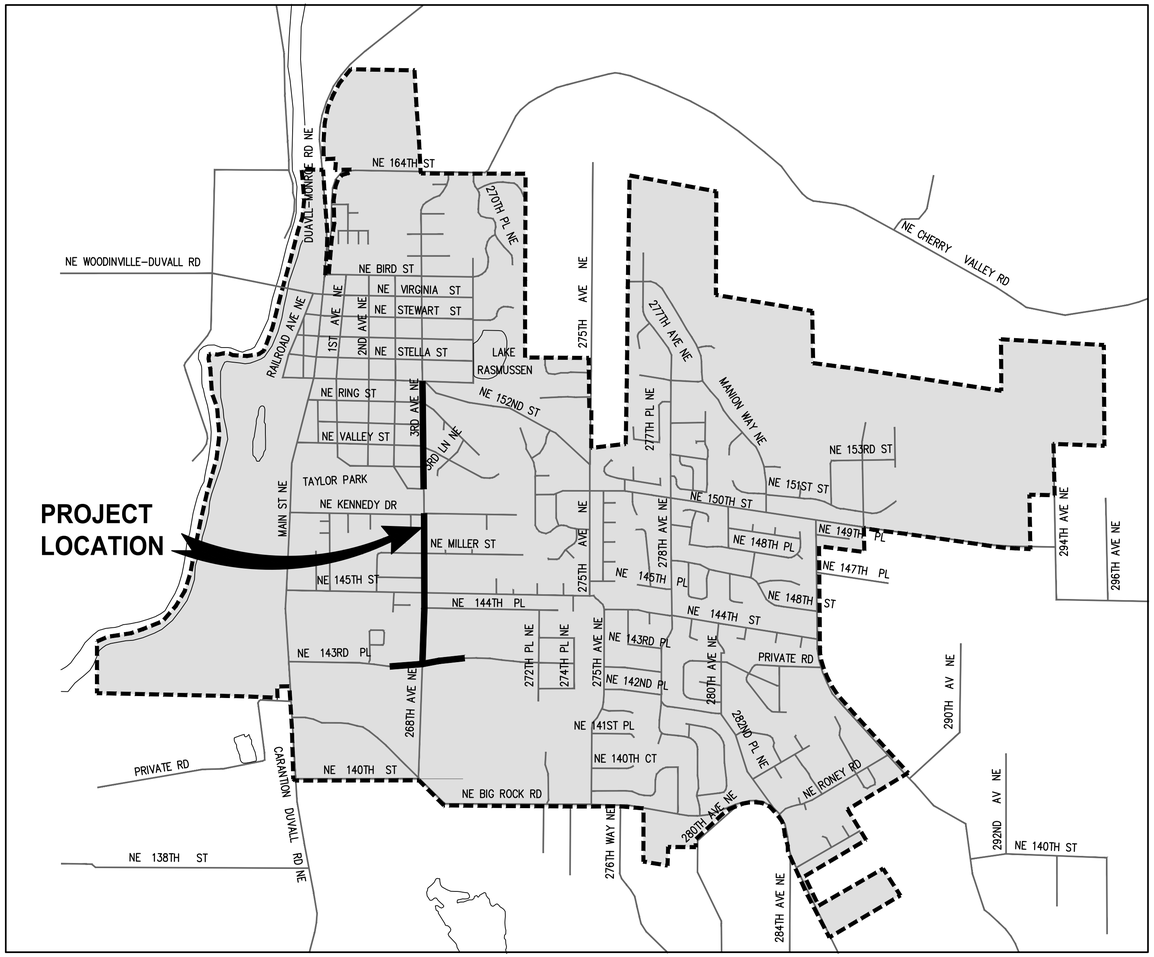
AMY OCKERLANDER

CITY COUNCIL

JOHN ISAACSON
RICK SHAFFER
AMY McHENRY
RONN MERCER
MIKE SUPPLE
JENNIFER KNAPLUND
COREY LOVETT

SCHEDULE OF DRAWINGS

SHEET NO.	TITLE
1	COVER
2	LEGEND AND ABBREVIATIONS
3–4	SHEET INDEX, ALIGNMENT PLAN, & SURVEY CONTROL
5–8	TYPICAL ROADWAY SECTIONS
9–10	ROADWAY DETAILS
11–17	SITE PREPARATION & TESC PLANS
18–22	TREE RETENTION PLANS
23–33	ROADWAY PLAN & PROFILES
34–52	STORMWATER PLAN & PROFILES
53–55	STORMWATER DETAILS
56–57	RETAINING WALL PLAN & ELEVATIONS
58–59	RETAINING WALL DETAILS
60	MINI ROUNDABOUT DETAILS
61–71	CURB RAMP PLANS
72–73	DRIVEWAY PLAN & PROFILES
74–83	ILLUMINATION PLANS
84–86	ILLUMINATION DETAILS
87–92	URBAN DESIGN PLANS
93–94	URBAN DESIGN DETAILS
95–99	LANDSCAPE PLANS
100–101	LANDSCAPE DETAILS
102–106	IRRIGATION PLANS
107–108	IRRIGATION DETAILS
109–112	JOINT UTILITY TRENCH PLAN
113	JOINT UTILITY TRENCH DETAILS
114–118	CHANNELIZATION & SIGNING PLANS
119	CHANNELIZATION & SIGNING DETAILS



CALL 2 DAYS BEFORE YOU DIG 811

APPROVED FOR CONSTRUCTION:

_____ _____

STEVEN LENISZEWSKI, P.E. **DATE**
PUBLIC WORKS DIRECTOR
CITY OF DUVALL

OLIVIA B. PARASCHIN
STATE OF WASHINGTON
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EXISTING LEGEND

- MIC — MONUMENT IN CASE
- MON — SURFACE MONUMENT
- RC — REBAR & CAP
- SPOT SHOT (DESCRIBED)
- CATCH BASIN
- STORM DRAIN MANHOLE
- YARD DRAIN
- DOWNSPOUT
- SD — STORM DRAIN CLEAN–OUT
- SEWER MANHOLE
- SS — SEWER CLEAN–OUT
- POWER POLE
- POWER POLE WITH UG CONNECT
- P — POWER VAULT LID
- POWER TRANSFORMER
- POWER METER
- POWER OUTLET
- GUY ANCHOR
- TRAFFIC SIGNAL WITH LUMINAIRE
- PEDESTRIAN SIGNAL
- JUNCTION BOX TYPE 1, 2, 3
- TR — TRAFFIC CONTROL CABINET
- TRAFFIC SERVICE CABINET
- TRAFFIC ATTENUATOR LOOP
- STREET LIGHT (LUMINAIRE)
- LOT LIGHT
- YARD LIGHT

- TELEPHONE MANHOLE
- T — TELEPHONE RISER
- T — TELEPHONE VAULT LID
- TELEPHONE POLE
- TV — TV VAULT LID
- FO — FIBER OPTIC MANHOLE
- GAS VALVE
- GAS METER
- WATER VALVE
- WATER METER
- WATER QUALITY BOX
- W — WATER MANHOLE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECT
- U — UTILITY VAULT LID (GENERIC/UNKNOWN)
- U — UTILITY ACCESS (GENERIC/UNKNOWN)
- BORE SITE (WITH FIELD DESCRIPTION)
- BOULDER
- SIGN
- (X) — MAILBOX
- SHRUB
- GRASS
- DT12(3) — DECIDUOUS TREE, DIAM. IN INCHES (# OF TRUNKS)
- CT12(3) — CONIFEROUS TREE, DIAM. IN INCHES (# OF TRUNKS)

- P — PAINTED POWER
- T — PAINTED TELEPHONE
- FO — PAINTED FIBER OPTIC
- TV — PAINTED TV
- W — PAINTED WATER
- G — PAINTED GAS
- SD — STORM
- S — SEWER
- x x x — FENCE
- HEDGE (HEIGHT NOTED)
- BUILDING
- PAINTED STRIPE
- RAISED–BUTTON SOLID STRIPE
- RAISED–BUTTON SKIP STRIPE
- EDGE OF PAVEMENT
- FLOWLINE
- CONTOUR
- EXISTING RIGHT–OF–WAY LINE
- PROPERTY LINE
- CONCRETE
- GRAVEL
- BRICK
- METAL GRATE

ABBREVIATIONS

AC	ASPHALT CONCRETE	LF	LINEAR FEET
ACP	ASPHALT CONCRETE PAVEMENT	LP	LOW POINT
ADA	AMERICANS WITH DISABILITIES ACT	MAX	MAXIMUM
AP	ANGLE POINT	MIN	MINIMUM
APPROX	APPROXIMATE	MH	MANHOLE
BLDG	BUILDING	MIC	MONUMENT IN CASE
CB	CATCH BASIN	MJ	MECHANICAL JOINT
CCP	CEMENT CONCRETE PAVEMENT	MON	MONUMENT
CDF	CONTROLLED DENSITY FILL	MWS	MODULAR WETLAND SYSTEM
CHLK	CHAINLINK	N	NORTH OR NORTHING
℄	CENTERLINE	NAVD	NORTH AMERICAN VERTICAL DATUM
CL	CLASS	NO	NUMBER
CO	CLEANOUT	NTS	NOT TO SCALE
COD	CITY OF DUVALL	OC	ON CENTER
COL	COLUMN CONC CONCRETE	OD	OUTSIDE DIAMETER
CSBC	CRUSHED SURFACING BASE COURSE	PAR	PEDESTRIAN ACCESS ROUTE
CSTC	CRUSHED SURFACING TOP COURSE	PC	POINT OF CURVE
DETN	STORMWATER DETENTION PIPE	PCC	POINT OF COMPOUND CURVATURE
DI	DUCTILE IRON	PCCP	PERVIOUS CEMENT CONCRETE PAVEMENT
DIA	DIAMETER	PI	POINT OF INTERSECTION
DMC	DUVALL MUNICIPAL CODE	POB	POINT OF BEGINNING
DW	DRIVEWAY	POE	POINT OF ENDING
E	EAST OR EASTING	PRC	POINT OF REVERSE CURVATURE
EA	EACH	PROP	PROPOSED
EG	EXISTING GRADE	PSE	PUGET SOUND ENERGY
ELEV	ELEVATION	PT	POINT OF TANGENT
EOP	EDGE OF PAVEMENT	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
EW	EACH WAY		
EXST/EXIST	EXISTING	PVT	POINT OF VERTICAL TANGENT
FF	FINISHED FLOOR	PVI	POINT OF VERTICAL INTERSECTION
FG	FINISHED GRADE	R	RADIUS
FL	FLOW LINE	RAB	ROUNDABOUT
FO	FIBER OPTIC	ROW	RIGHT OF WAY
FOC	FACE OF CURB	RT	RIGHT
HMA	HOT MIX ASPHALT	S	SLOPE OR SOUTH
HORIZ	HORIZONTAL	SD	STORM DRAIN
HP	HIGH POINT	SDMH	STORM DRAIN MANHOLE
ID	INSIDE DIAMETER	SE	SOUTHEAST
IE	INVERT ELEVATION	SHT	SHEET
IN	INCH/INCHES	SQ	SQUARE
JB	JUNCTION BOX	SS	SANITARY SEWER
JUT	JOINT UTILITY TRENCH	S.S.	STAINLESS STEEL
L	LENGTH LT LEFT	SSMH	SANITARY SEWER MANHOLE
		ST	STREET
		STA	STATION
		STD	STANDARD
		STCR	STRUCTURE
		SW	SOUTHWEST
		TYP	TYPICAL
		VERT	VERTICAL
		W	WEST
		YD	YARD DRAIN

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

21078COV.dwg	
FILENAME	
JRW	01/2025
DESIGNED BY	DATE
KAB	01/2025
DRAWN BY	DATE
OBP	01/2025
CHECKED BY	DATE

OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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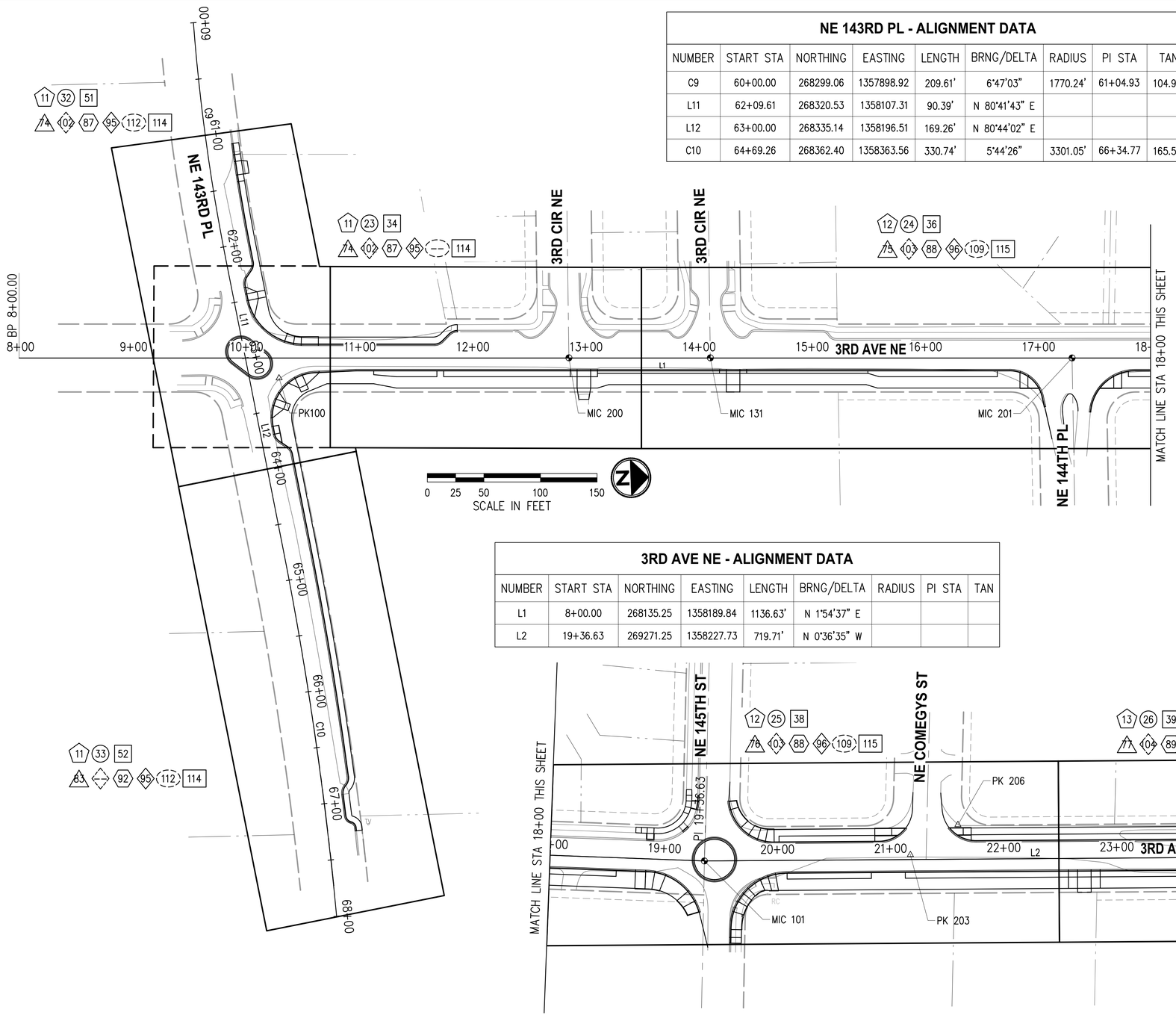
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3RD AVENUE NE RECONSTRUCTION

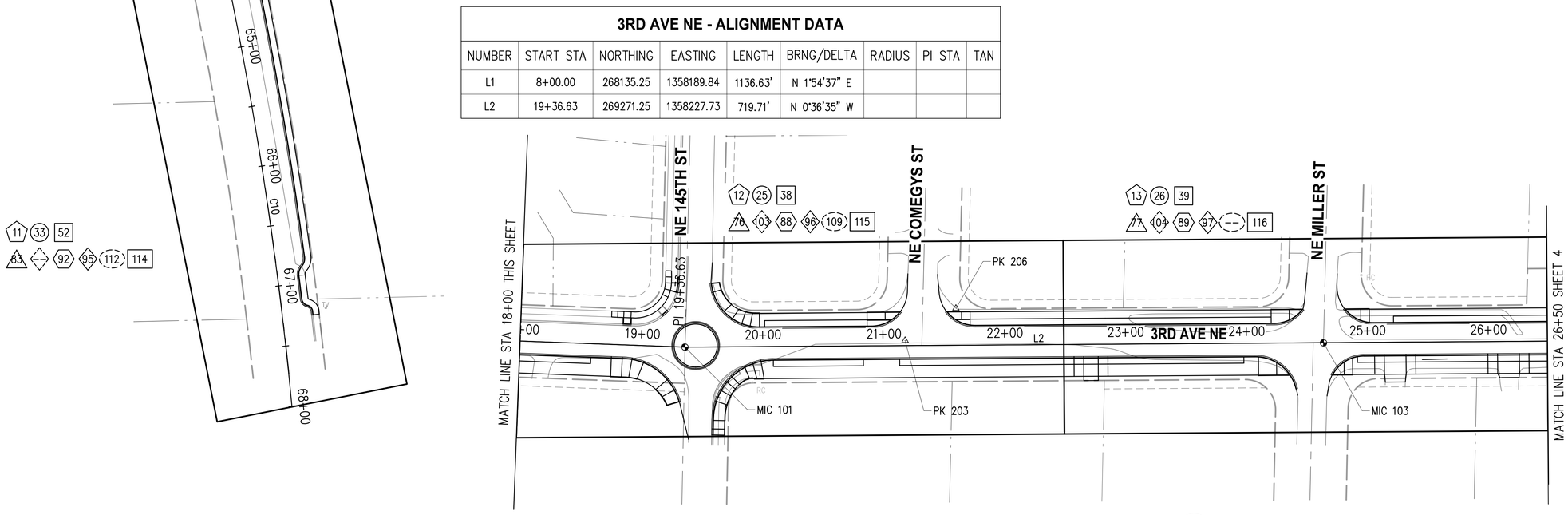
LEGEND AND ABBREVIATIONS

KPG PROJECT No. 21078

SHT 2 OF 119

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NE 143RD PL - ALIGNMENT DATA

NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
C9	60+00.00	268299.06	1357898.92	209.61'	6°47'03"	1770.24'	61+04.93	104.93'
L11	62+09.61	268320.53	1358107.31	90.39'	N 80°41'43" E			
L12	63+00.00	268335.14	1358196.51	169.26'	N 80°44'02" E			
C10	64+69.26	268362.40	1358363.56	330.74'	5°44'26"	3301.05'	66+34.77	165.51'

3RD AVE NE - ALIGNMENT DATA

NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
L1	8+00.00	268135.25	1358189.84	1136.63'	N 1°54'37" E			
L2	19+36.63	269271.25	1358227.73	719.71'	N 0°36'35" W			

SHEET INDEX

##	SITE PREPARATION & TESC PLANS
##	ROADWAY PLAN & PROFILES
##	STORMWATER PLAN & PROFILES
##	ILLUMINATION PLANS
##	IRRIGATION PLANS
##	URBAN DESIGN PLANS
##	LANDSCAPE PLANS
##	JOINT UTILITY TRENCH PLANS
##	CHANNELIZATION & SIGNING PLANS

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, OCTOBER/NOVEMBER, 2021. 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.

HORIZONTAL AND VERTICAL DATUM

HORIZONTAL DATUM: NAD 83/11

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 "FUNK", ID1244)

CONTROL POINT LIST

PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
100	PK	268364.29	1358215.23	260.30'
101	MIC	269271.25	1358227.73	268.83'
103	MIC	269799.30	1358222.22	252.38'
131	MIC	268745.81	1358210.06	268.82'
200	MIC	268620.88	1358205.89	267.84'
201	MIC	269065.34	1358220.80	271.08'
203	PK	269453.27	1358221.61	266.82'
206	PK	269495.18	1358194.95	263.93'

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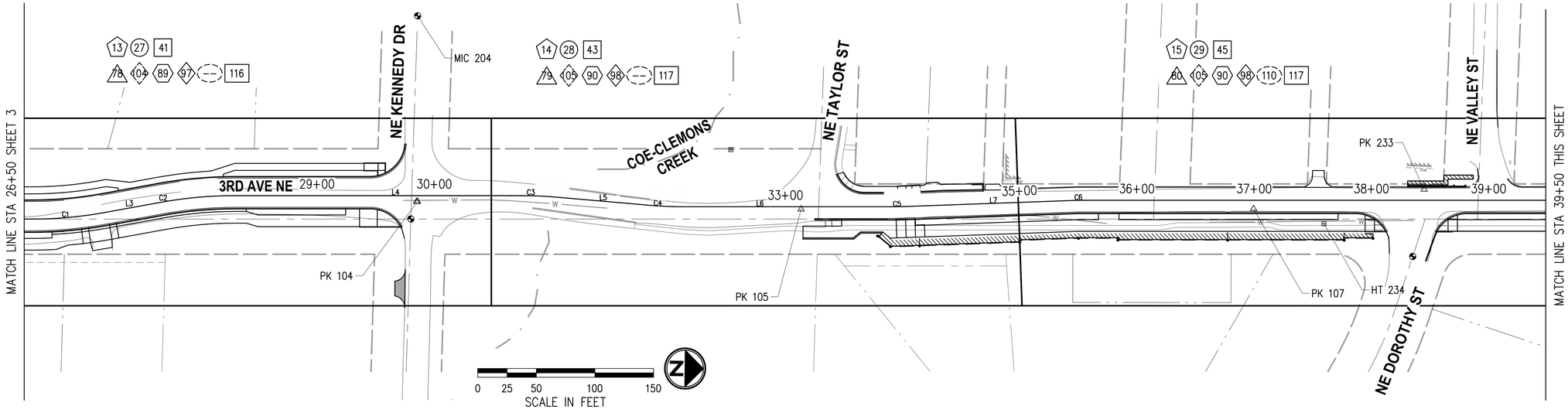
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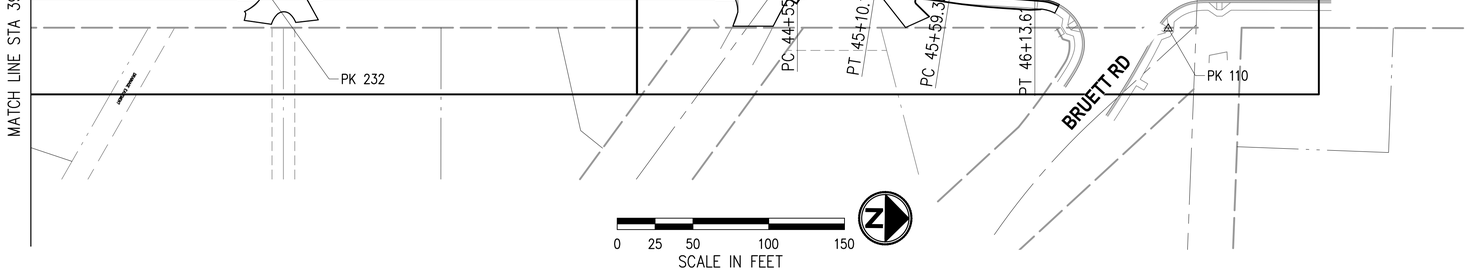
SHEET INDEX, ALIGNMENT PLAN, & SURVEY CONTROL

KPG PROJECT No. 21078

SHT 3 OF 119

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##	CHANNELIZATION & SIGNING PLANS

CONTROL POINT LIST

PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
104	PK	270319.94	1358201.65	235.14'
105	PK	270647.23	1358204.64	227.55'
107	PK	271033.19	1358200.22	229.69'
108	PK	271506.07	1358177.44	228.13'
109	PK	271786.63	1358187.01	233.74'
110	PK	272033.46	1358228.94	239.71'
204	MIC	270318.37	1358043.19	238.08'
230	PK	272027.98	1358118.92	226.85'
231	PK	271913.91	1358183.55	235.06'
232	PK	271438.20	1358210.83	230.19'
233	PK	271178.54	1358182.11	226.51'
234	HT	271093.36	1358212.33	229.98'

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3RD AVE NE - ALIGNMENT DATA

NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
L3	27+19.20	270053.38	1358213.78	48.94'	N 10°53'58" W			
C2	27+68.13	270101.43	1358204.52	62.86'	10°17'24"	350.00'	27+99.65	31.51'
L4	28+30.99	270163.89	1358198.23	244.28'	N 0°36'35" W			
C3	30+75.27	270408.15	1358195.63	30.49'	4°59'26"	350.00'	30+90.52	15.25'
L5	31+05.76	270438.61	1358196.63	78.66'	N 4°22'51" E			
C4	31+84.41	270517.04	1358202.64	30.49'	4°59'26"	350.00'	31+99.67	15.25'
L6	32+14.90	270547.50	1358203.64	175.99'	N 0°36'35" W			

3RD AVE NE - ALIGNMENT DATA

NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
L7	34+03.43	270736.01	1358201.41	141.07'	N 2°39'42" W			
C6	35+44.50	270876.93	1358194.86	12.54'	2°03'08"	350.00'	35+50.77	6.27'
L8	35+57.04	270889.46	1358194.51	898.85'	N 0°36'34" W			
C7	44+55.88	271788.26	1358184.94	54.31'	8°53'24"	350.00'	44+83.09	27.21'
L9	45+10.19	271842.39	1358188.57	49.11'	N 8°16'50" E			
C8	45+59.30	271890.99	1358195.65	54.31'	8°53'25"	350.00'	45+86.51	27.21'
L10	46+13.61	271945.12	1358199.28	107.59'	N 0°36'35" W			

HORIZONTAL AND VERTICAL DATUM

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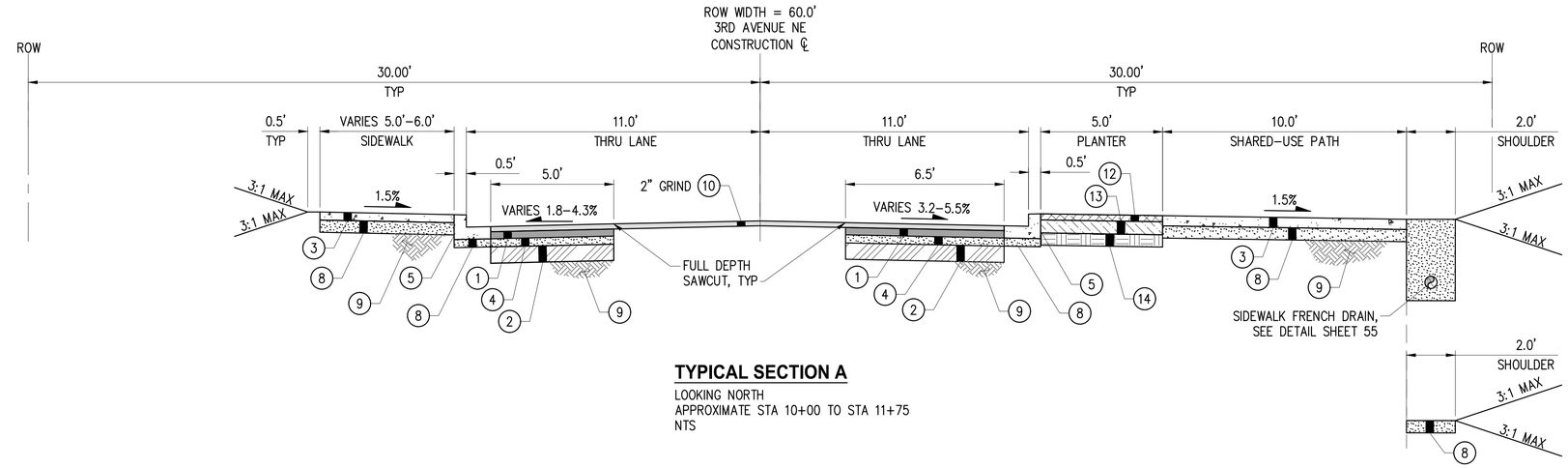
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SHEET INDEX, ALIGNMENT PLAN, & SURVEY CONTROL

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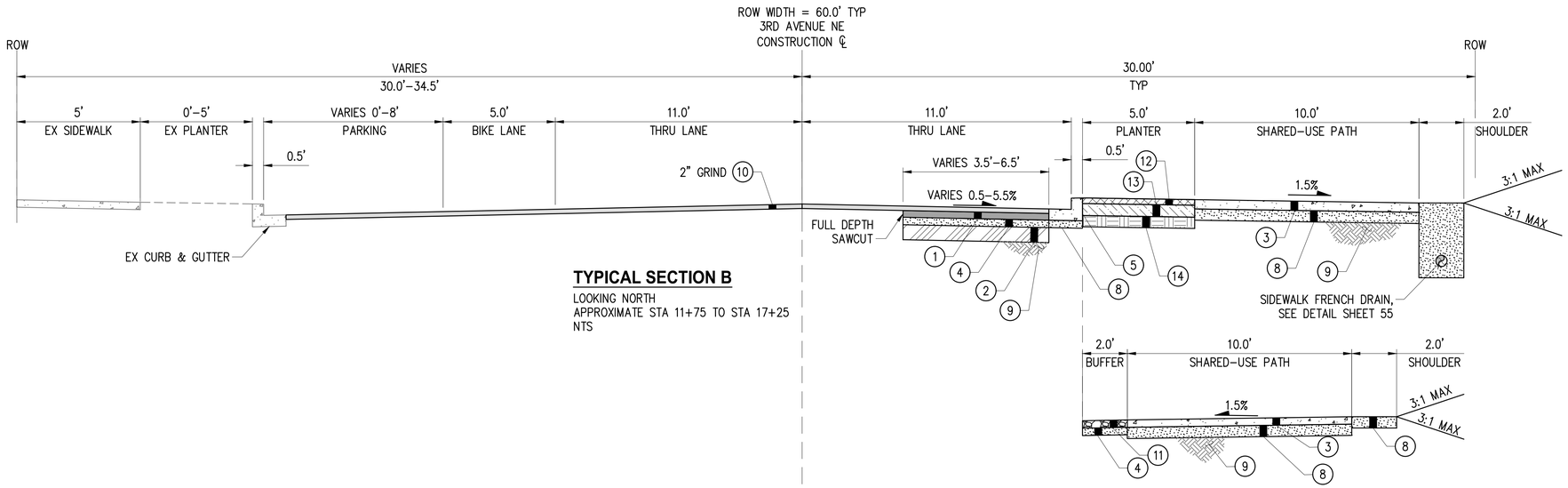


TYPICAL SECTION A

LOOKING NORTH
APPROXIMATE STA 10+00 TO STA 11+75
NTS

SECTION A1

NTS

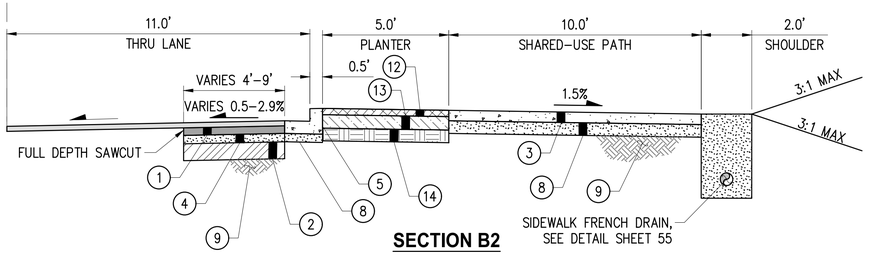


TYPICAL SECTION B

LOOKING NORTH
APPROXIMATE STA 11+75 TO STA 17+25
NTS

SECTION B1

APPROXIMATE STA 13+25 TO STA 15+50
NTS



SECTION B2

APPROXIMATE STA 17+25 TO 19+50
NTS

TYPICAL SECTION GENERAL NOTES

1. SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH SECTION 2–06 OF THE STANDARD SPECIFICATIONS.
2. EMBANKMENTS SHALL BE CONSTRUCTED PER SECTION 2–03 OF THE STANDARD SPECIFICATIONS.

MATERIAL CODE	
(##)	MATERIALS DESCRIPTION
1	4" HMA CL ½" PG 58H–22
2	8" CRUSHED SURFACING BASE COURSE
3	5" CEMENT CONC. SIDEWALK (OR 5" CEMENT CONC. DRIVEWAY ENTRANCE, 4000 PSI)
4	4" CRUSHED SURFACING TOP COURSE
5	18" WIDE VERTICAL CEMENT CONC. CURB & GUTTER PER DUVALL DWG NO. 3–03–002A (4000 PSI)
6	EXTRUDED CURB TYPE 5 PER WSDOT F–10.42.00
7	5" PERVIOUS CONC. SIDEWALK
8	6" CRUSHED SURFACING TOP COURSE
9	FIRM AND UNYIELDING/APPROVED SUBGRADE
10	2" HMA CL ½" PG 58H–22 (OVERLAY)
11	5" DECORATIVE SURFACE TREATMENT AT SIDEWALK
12	3" BARK OR WOOD CHIP MULCH, WHERE APPLICABLE; SEE LANDSCAPE PLANS
13	6" THREE–WAY TOPSOIL PER DMC 14.38.130
14	6" THREE–WAY TOPSOIL TILLED INTO 12" OF NATIVE SOIL PER DMC 14.38.130
15	8" EXPOSED PEDESTRIAN CURB
16	6" HMA CL ½" PG 58H–22

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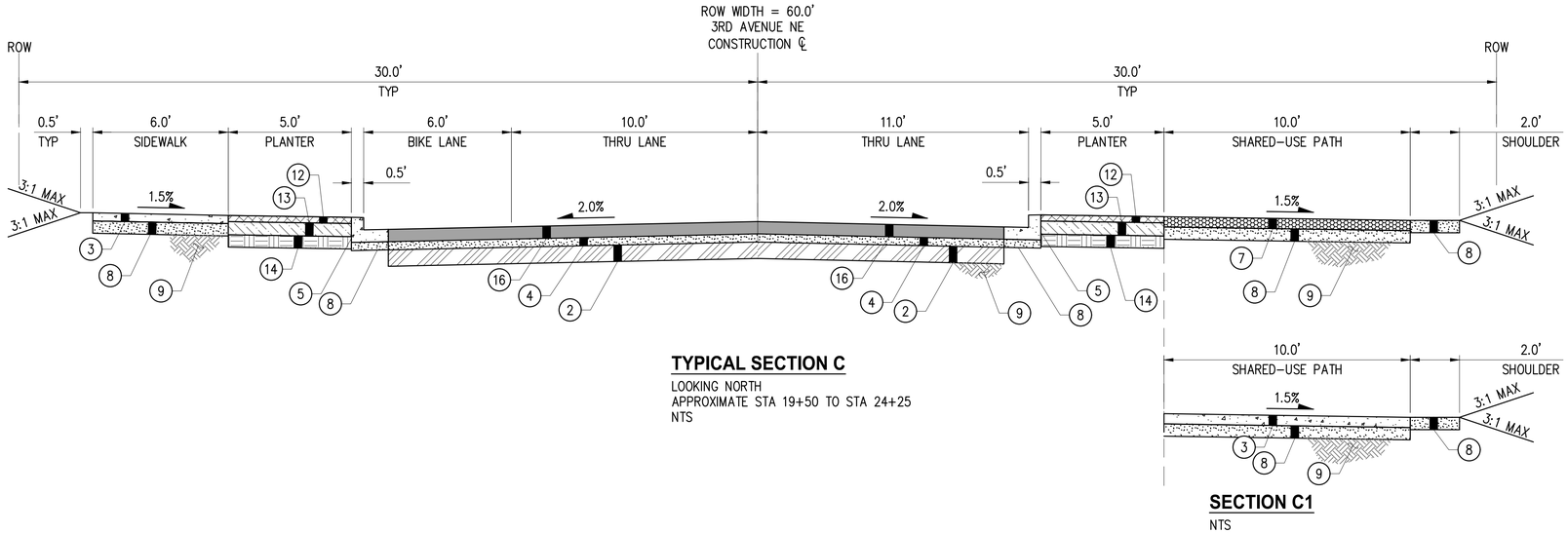
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

TYPICAL ROADWAY SECTIONS
3RD AVE NE

KPG PROJECT No. 21078

SHT 5 OF 119

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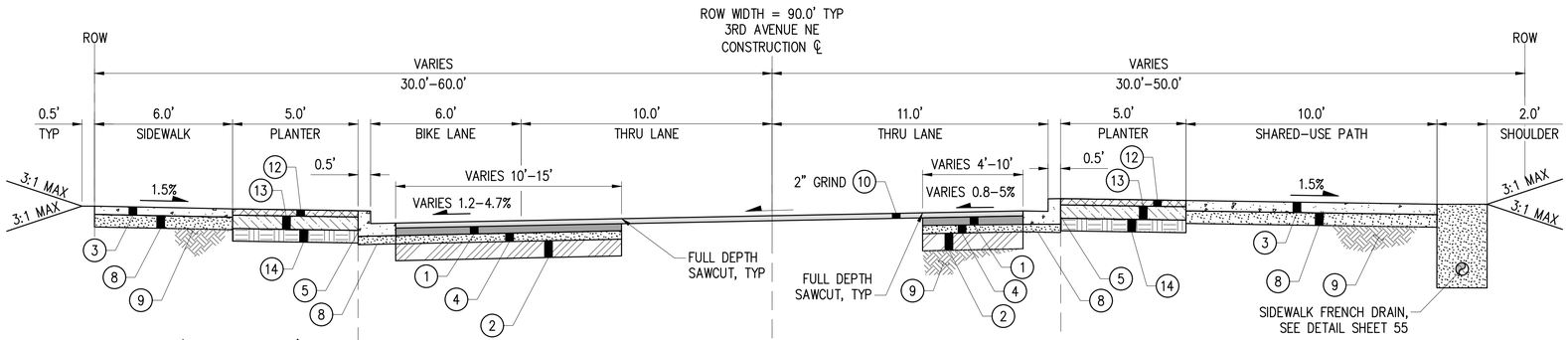


TYPICAL SECTION C

LOOKING NORTH
APPROXIMATE STA 19+50 TO STA 24+25
NTS

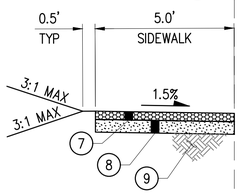
SECTION C1

NTS



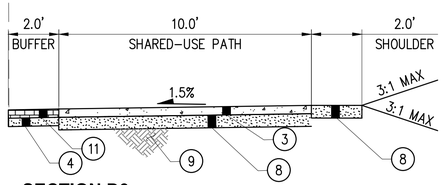
TYPICAL SECTION D

LOOKING NORTH
APPROXIMATE STA 25+00 TO STA 27+00
NTS



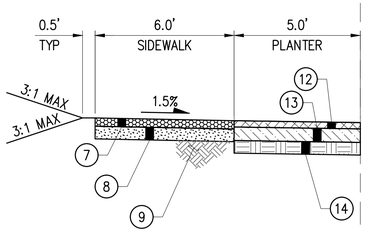
SECTION D1

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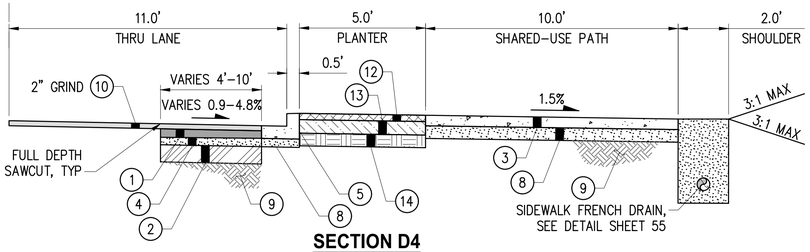
SECTION D3

NTS



SECTION D2

NTS



SECTION D4

APPROXIMATE STA 24+25 TO STA 25+00
APPROXIMATE STA 27+00 TO STA 30+00
NTS

TYPICAL SECTION GENERAL NOTES

1. SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH SECTION 2–06 OF THE STANDARD SPECIFICATIONS.
2. EMBANKMENTS SHALL BE CONSTRUCTED PER SECTION 2–03 OF THE STANDARD SPECIFICATIONS.

MATERIAL CODE	
(##)	MATERIALS DESCRIPTION
1	4" HMA CL ½" PG 58H–22
2	8" CRUSHED SURFACING BASE COURSE
3	5" CEMENT CONC. SIDEWALK (OR 5" CEMENT CONC. DRIVEWAY ENTRANCE, 4000 PSI)
4	4" CRUSHED SURFACING TOP COURSE
5	18" WIDE VERTICAL CEMENT CONC. CURB & GUTTER PER DUVALL DWG NO. 3–03–002A (4000 PSI)
6	EXTRUDED CURB TYPE 5 PER WSDOT F–10.42.00
7	5" PERVIOUS CONC. SIDEWALK
8	6" CRUSHED SURFACING TOP COURSE
9	FIRM AND UNYIELDING/APPROVED SUBGRADE
10	2" HMA CL ½" PG 58H–22 (OVERLAY)
11	5" DECORATIVE SURFACE TREATMENT AT SIDEWALK
12	3" BARK OR WOOD CHIP MULCH, WHERE APPLICABLE; SEE LANDSCAPE PLANS
13	6" THREE–WAY TOPSOIL PER DMC 14.38.130
14	6" THREE–WAY TOPSOIL TILLED INTO 12" OF NATIVE SOIL PER DMC 14.38.130
15	8" EXPOSED PEDESTRIAN CURB
16	6" HMA CL ½" PG 58H–22

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER DATE
PROJECT MANAGER DATE
PROJECT ENGINEER DATE

21078SEC01.dwg
FILENAME
JRW 01/2025
DESIGNED BY DATE
KAB 01/2025
DRAWN BY DATE
OBP 01/2025
CHECKED BY DATE

OLIVIA B. PARASCHIN STATE OF WASHINGTON 41380 REGISTERED PROFESSIONAL ENGINEER

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206.286.1640
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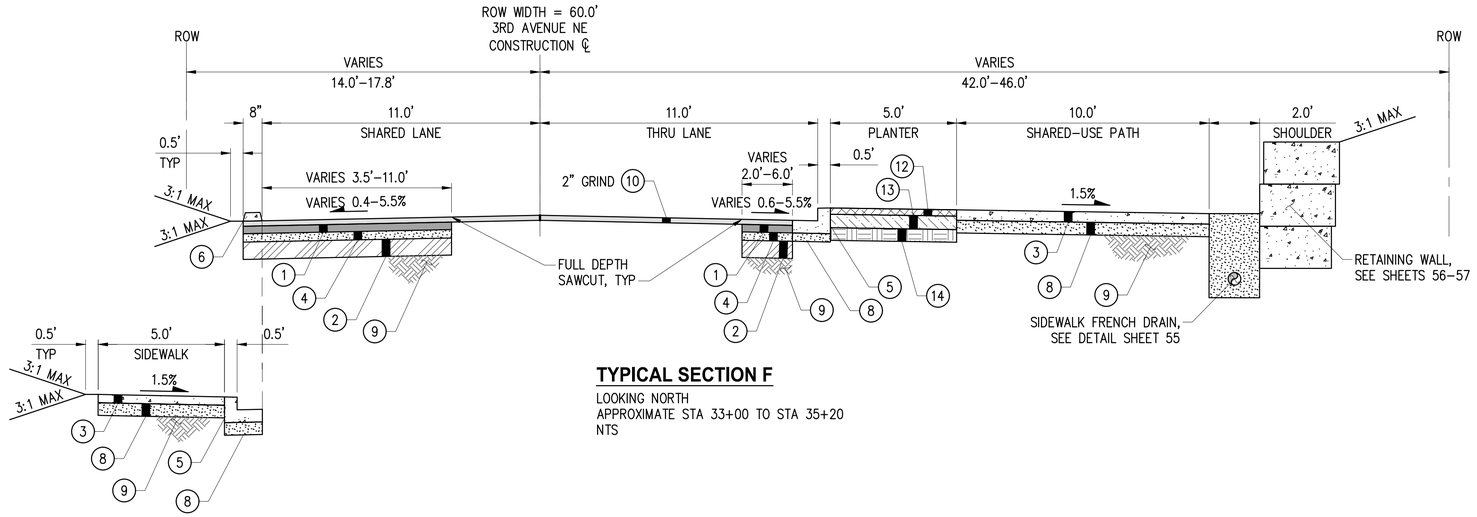
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

TYPICAL ROADWAY SECTIONS
3RD AVE NE

KPG PROJECT No. 21078 | SHT 6 OF 119

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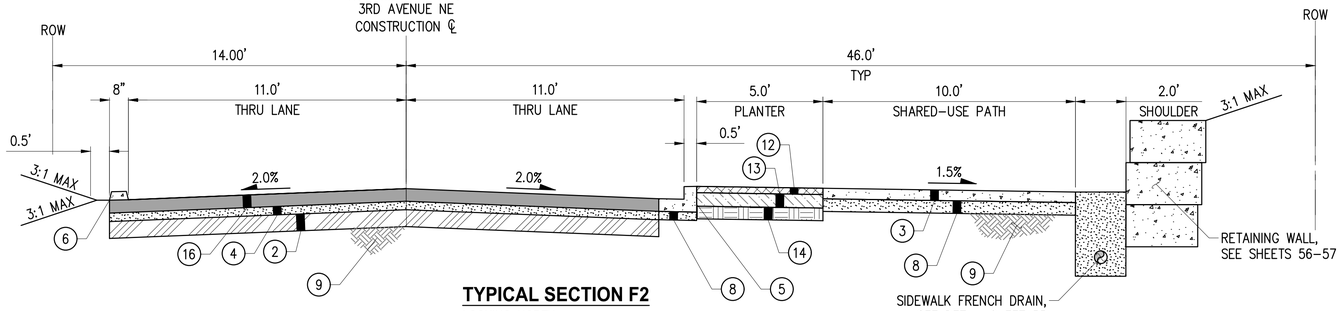


TYPICAL SECTION F

LOOKING NORTH
APPROXIMATE STA 33+00 TO STA 35+20
NTS

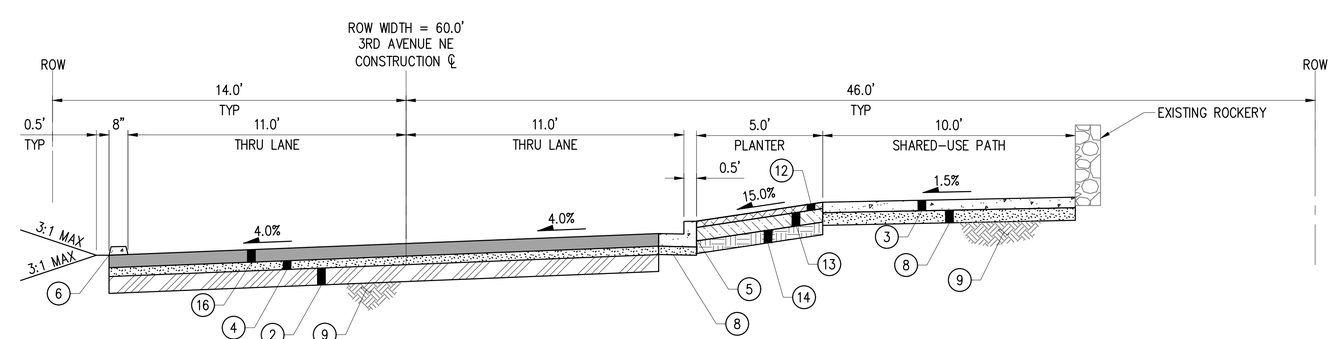
SECTION F1

LOOKING NORTH
APPROXIMATE STA
NTS



TYPICAL SECTION F2

LOOKING NORTH
APPROXIMATE STA 35+20 TO STA 38+00
NTS



TYPICAL SECTION G

LOOKING NORTH
APPROXIMATE STA 38+00 TO STA 44+70
NTS

TYPICAL SECTION GENERAL NOTES

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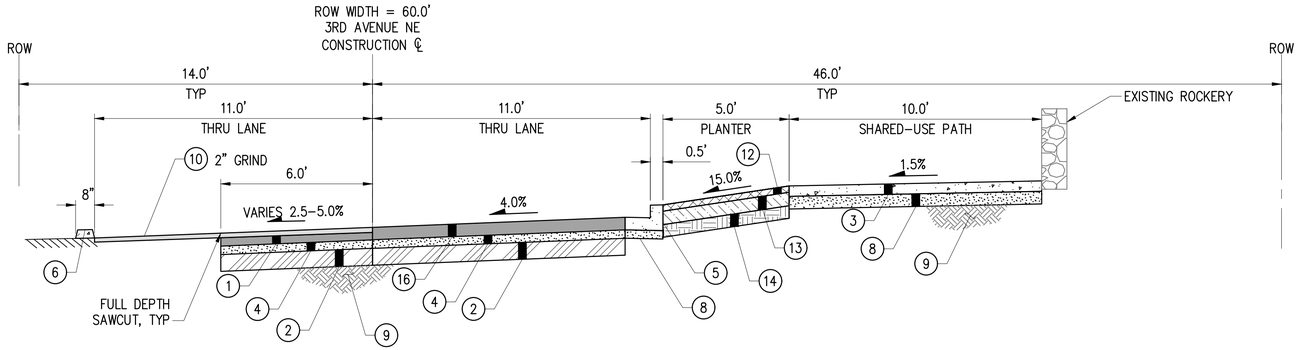
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

TYPICAL ROADWAY SECTIONS
3RD AVE NE

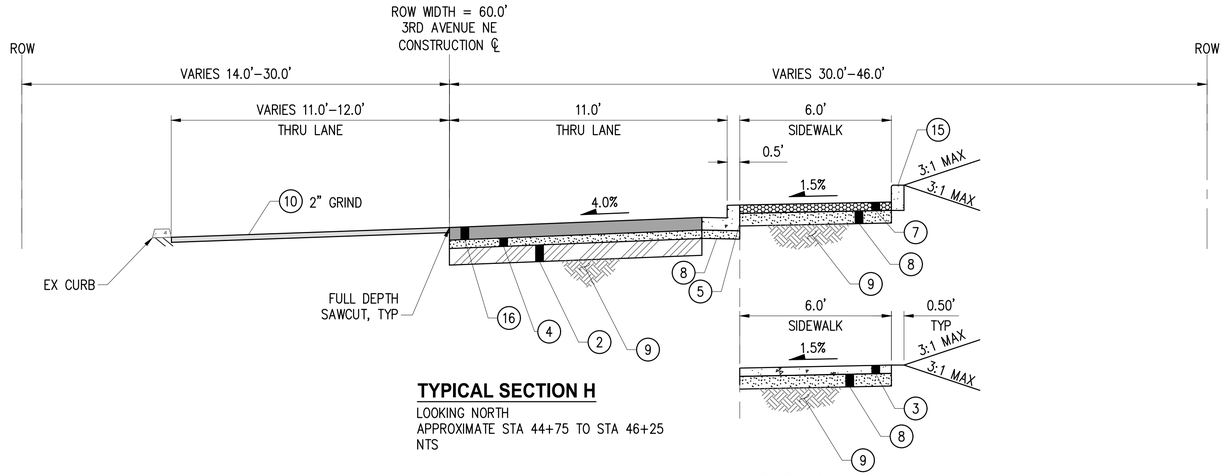
KPG PROJECT No. 21078 | SHT 7 OF 119

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TYPICAL SECTION G1

LOOKING NORTH
APPROXIMATE STA 40+70 TO STA 44+00
NTS



TYPICAL SECTION H

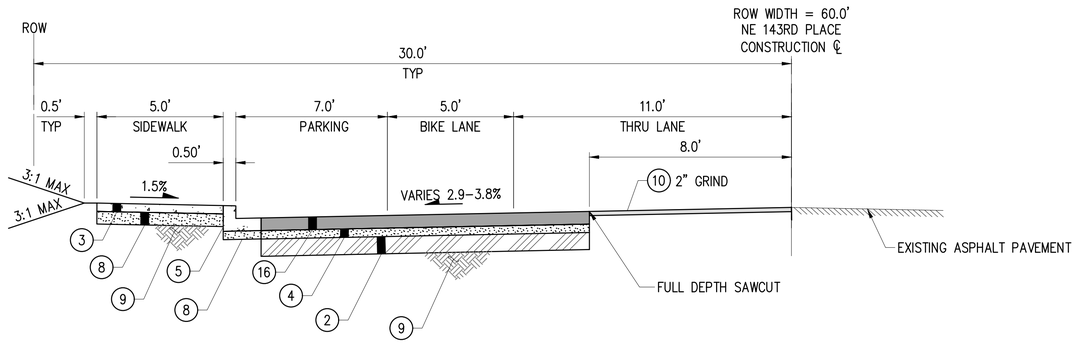
LOOKING NORTH
APPROXIMATE STA 44+75 TO STA 46+25
NTS

SECTION H1

NTS

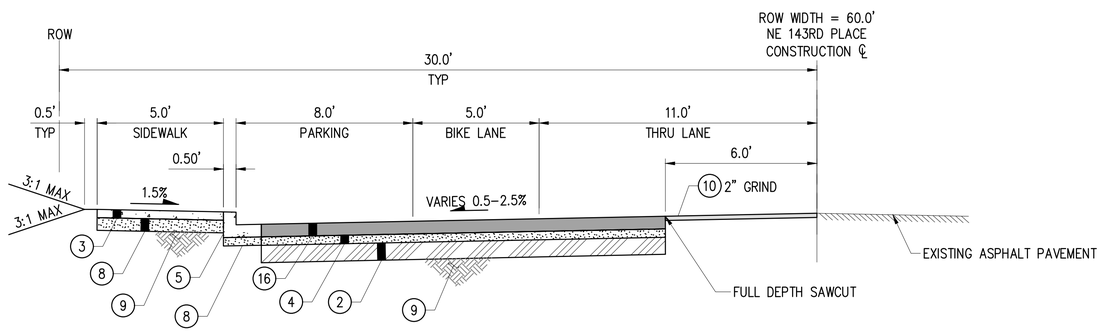
TYPICAL SECTION I

LOOKING EAST
APPROXIMATE STA 61+00 TO STA 67+00
NTS



TYPICAL SECTION J

LOOKING EAST
APPROXIMATE STA 63+00 TO STA 67+00
NTS



TYPICAL SECTION GENERAL NOTES

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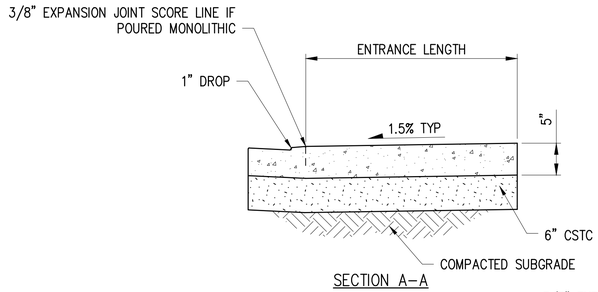
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

TYPICAL ROADWAY SECTIONS
3RD AVE NE & NE 143RD PL

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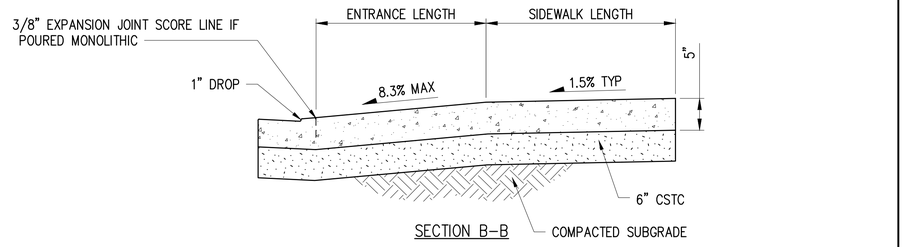
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DRIVEWAY SCHEDULE			
DRIVEWAY NO.	CL STATION	ENTRANCE WIDTH (LF)	DESCRIPTION
D1	12+99.17	12.0	TYPE 2
D2	14+31.04	12.0	TYPE 2
D3	22+72.32	12.0	TYPE 2
D4	25+23.92	18.0	TYPE 2
D5	26+17.62	18.0	TYPE 2
D6	27+12.29	18.0	TYPE 1
D7	45+21.14	20.0	TYPE 1
D8	61+32.85	12.0	TYPE 1



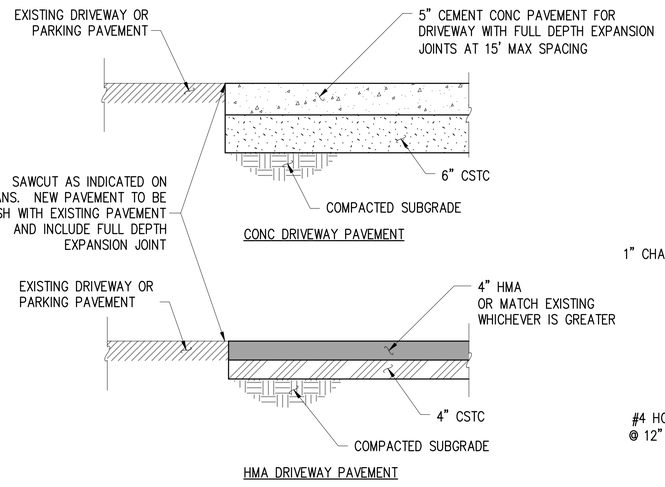
DRIVEWAY ENTRANCE TYPE 1 DETAIL

NTS



DRIVEWAY ENTRANCE TYPE 2 DETAIL

NTS

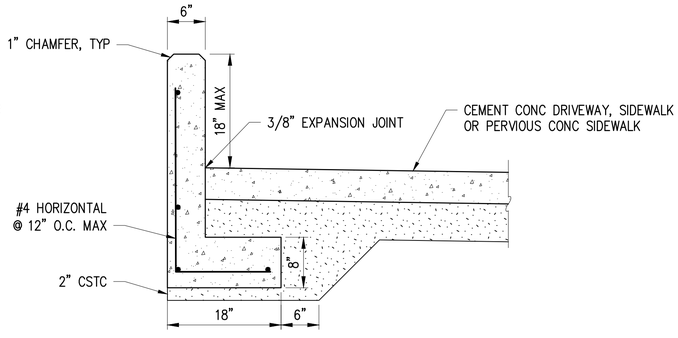


DRIVEWAY PAVEMENT NOTE:

1. GRADE DRIVEWAY PAVEMENT TO ENSURE POSITIVE DRAINAGE TO EXISTING AND PROPOSED DRAINAGE STRUCTURES.

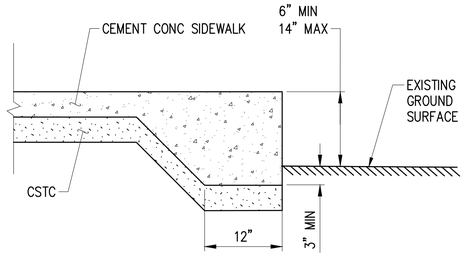
DRIVEWAY PAVEMENT DETAILS

NTS



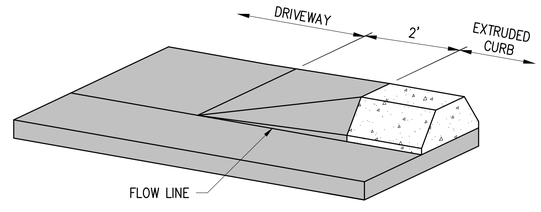
CEMENT CONCRETE STEM WALL DETAIL

NTS



THICKENED EDGE SIDEWALK DETAIL

NTS



DRIVEWAY CURB TRANSITION

NTS

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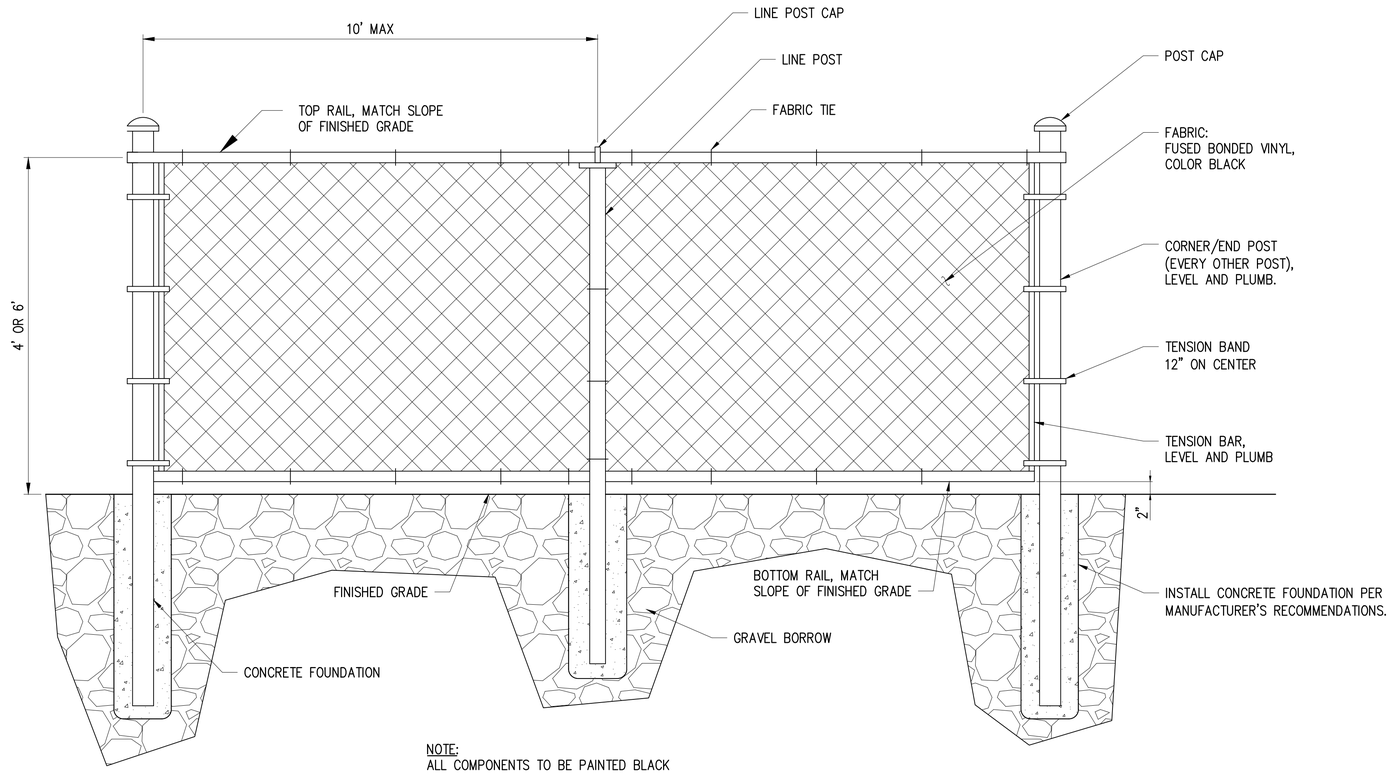
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ROADWAY DETAILS

KPG PROJECT No. 21078

SHT 9 OF 119

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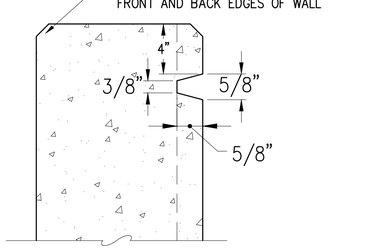


NOTE:
ALL COMPONENTS TO BE PAINTED BLACK

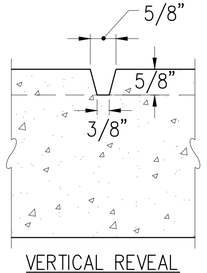
BLACK VINYL COATED CHAIN LINK FENCE
NTS

DETAIL TO BE PROVIDED
AT NEXT SUBMITTAL

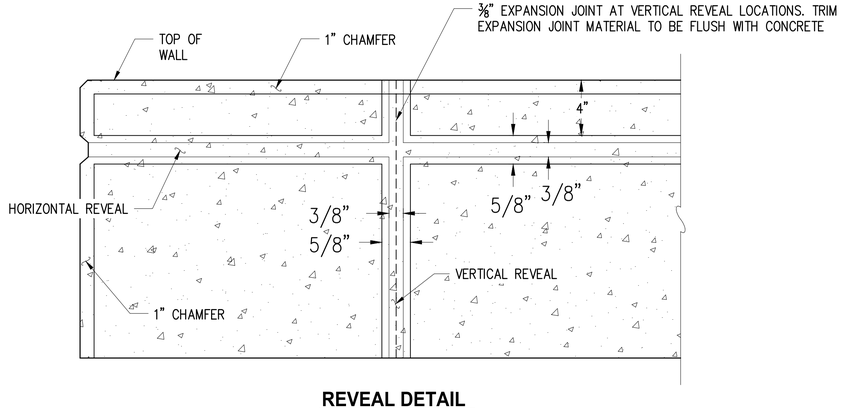
WOOD FENCE
NTS



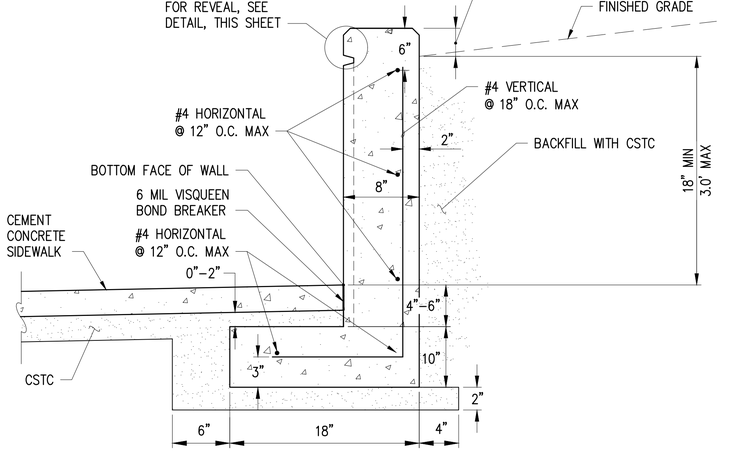
HORIZONTAL
REVEAL SECTION



VERTICAL REVEAL
SECTION



REVEAL DETAIL
NTS



CEMENT CONC STEM WALL TYPE B
APPROX STA 33+50 RT
NTS

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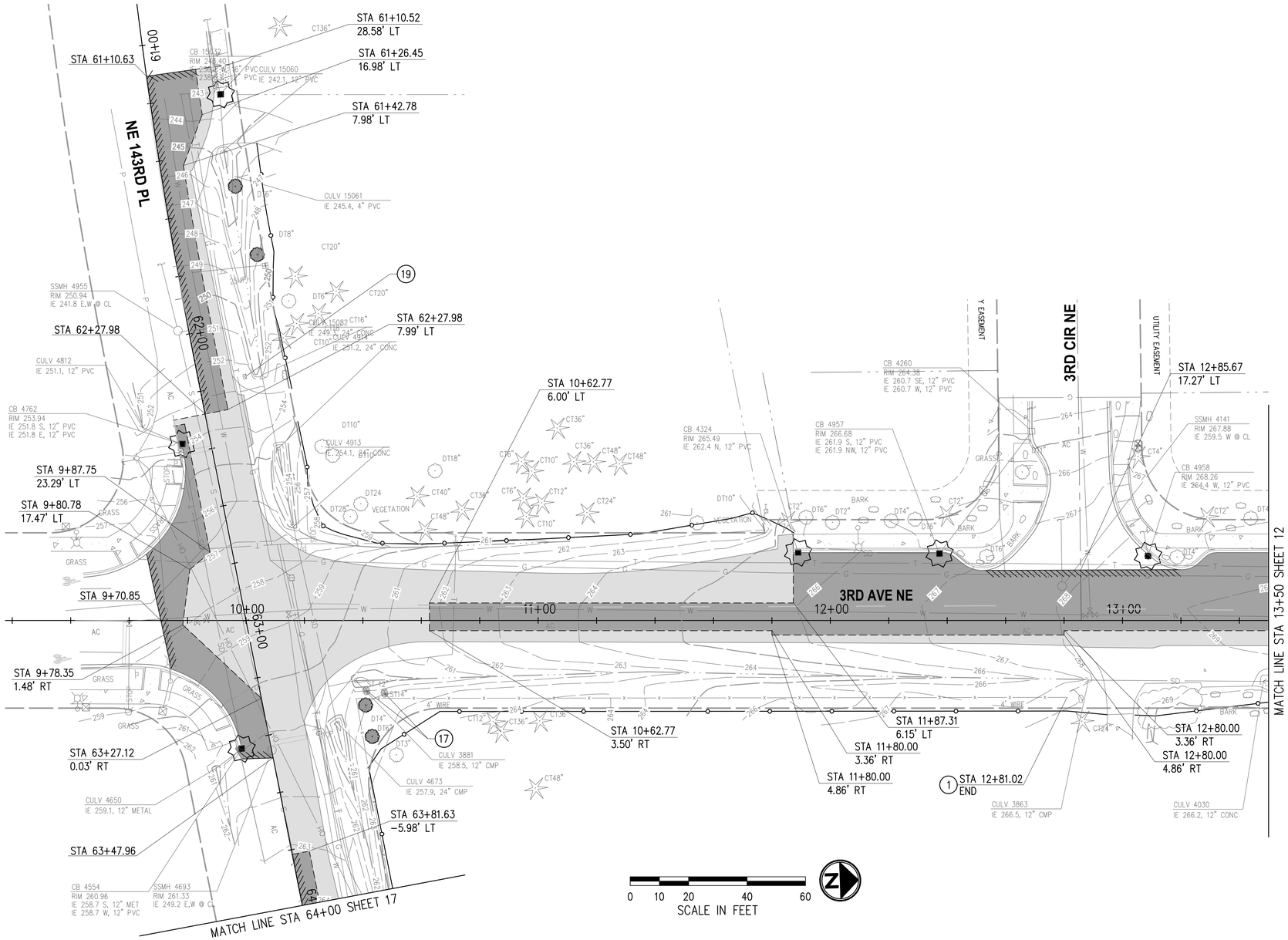
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3RD AVENUE NE RECONSTRUCTION

ROADWAY DETAILS

KPG PROJECT No. 21078

SHT 10 OF 119

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GENERAL SITE PREPARATION & TESC NOTES

1. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES, STRUCTURES, TREES, AND VEGETATION NOT MARKED FOR REMOVAL, RELOCATION, OR ADJUSTMENT.
2. INLET PROTECTION SHALL BE PLACED IN ALL EXISTING CATCH BASINS WITHIN THE PROJECT LIMITS AND IN ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION.
3. FOR STORMWATER REMOVALS, SEE SHEETS 34–52.
4. FOR TREATMENT OF EXISTING LUMINAIRES AND ASSOCIATED EQUIPMENT, SEE SHEETS 74–83.
5. FOR TREATMENT OF EXISTING FRANCHISE UTILITY POLES, VAULTS, AND ASSOCIATED EQUIPMENT, SEE SHEETS 109–112.
6. FOR TREATMENT OF EXISTING ROADWAY SIGNS, SEE SHEETS 114–118.
7. FOR TREATMENT OF EXISTING TREES, SEE SHEETS 18–22.

SITE PREPARATION NOTES

(1) REMOVE FENCE.

(17) GRIND STUMP AND ASSOCIATED ROOTS AT LEAST 18" BELOW NEW PAVEMENT FINISHED GRADE.

(19) RELOCATE MAILBOX AS SHOWN ON THE ROADWAY PLANS, SHEET 24–33.

LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- FULL DEPTH SAWCUT
- PLANING BITUMINOUS PAVEMENT
- CLEARING LIMITS
- SILT FENCE
- BUTT JOINT / EDGE GRIND

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3RD AVENUE NE RECONSTRUCTION

SITE PREPARATION & TESC PLAN
STA 9+25 TO STA 15+00 AND
STA 61+00 TO STA 64+00

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7. FOR TREATMENT OF EXISTING TREES, SEE SHEETS 18–22.

SITE PREPARATION NOTES

(2) REMOVE RAILROAD TIE AND SALVAGE TO OWNER.

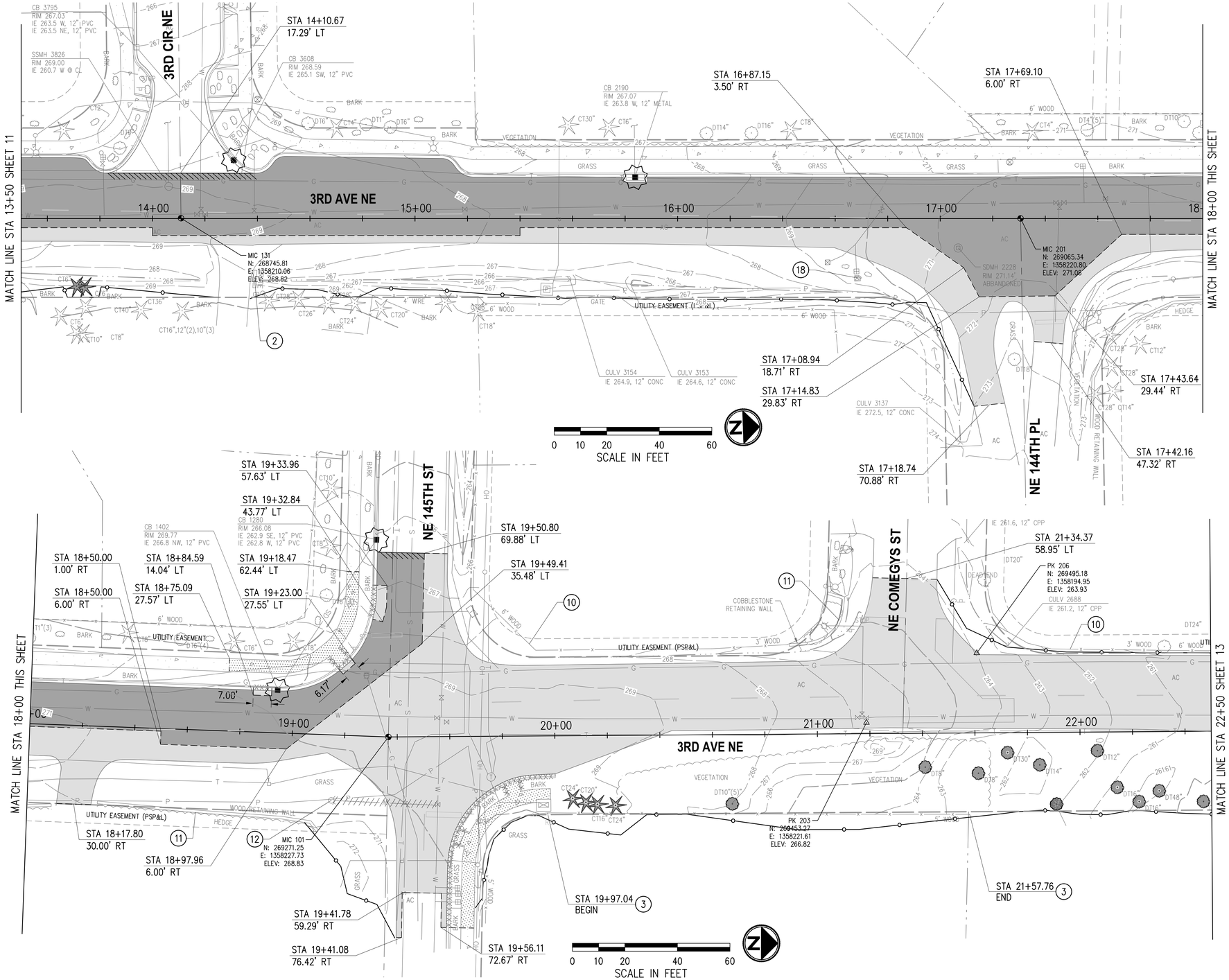
(3) REMOVE AND RELOCATE EXISTING FENCE AS SHOWN ON ROADWAY PLANS, SHEET 23–33.

(10) PROTECT AND PRESERVE FENCE.

(11) PROTECT AND PRESERVE RETAINING WALL.

(12) REMOVE FIRE HYDRANT ASSEMBLY AND SALVAGE TO CITY.

(18) RELOCATE WATER SAMPLE STATION AT LOCATION SHOWN ON SHEET 24.



LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- FULL DEPTH SAWCUT
- PLANING BITUMINOUS PAVEMENT
- CLEARING LIMITS
- SILT FENCE
- BUTT JOINT / EDGE GRIND
- REMOVE OR ABANDON WATER LINE

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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FILENAME	
JRW	01/2025
DESIGNED BY	DATE
KAB	01/2025
DRAWN BY	DATE
OBP	01/2025
CHECKED BY	DATE

OLIVIA B. PARASCHIN — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

PSOMAS
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SUITE 400
SEATTLE, WA 98121
206.286.1640
www.psomas.com

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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

SITE PREPARATION & TESC PLAN
STA 13+50 TO STA 22+50

KPG PROJECT No. 21078 | SHT 12 OF 119

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GENERAL SITE PREPARATION & TESC NOTES

1. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES, STRUCTURES, TREES, AND VEGETATION NOT MARKED FOR REMOVAL, RELOCATION, OR ADJUSTMENT.
2. INLET PROTECTION SHALL BE PLACED IN ALL EXISTING CATCH BASINS WITHIN THE PROJECT LIMITS AND IN ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION.
3. FOR STORMWATER REMOVALS, SEE SHEETS 34–52.
4. FOR TREATMENT OF EXISTING LUMINAIRES AND ASSOCIATED EQUIPMENT, SEE SHEETS 74–83.
5. FOR TREATMENT OF EXISTING FRANCHISE UTILITY POLES, VAULTS, AND ASSOCIATED EQUIPMENT, SEE SHEETS 109–112.
6. FOR TREATMENT OF EXISTING ROADWAY SIGNS, SEE SHEETS 114–118.
7. FOR TREATMENT OF EXISTING TREES, SEE SHEETS 18–22.

SITE PREPARATION NOTES

(1) REMOVE FENCE.

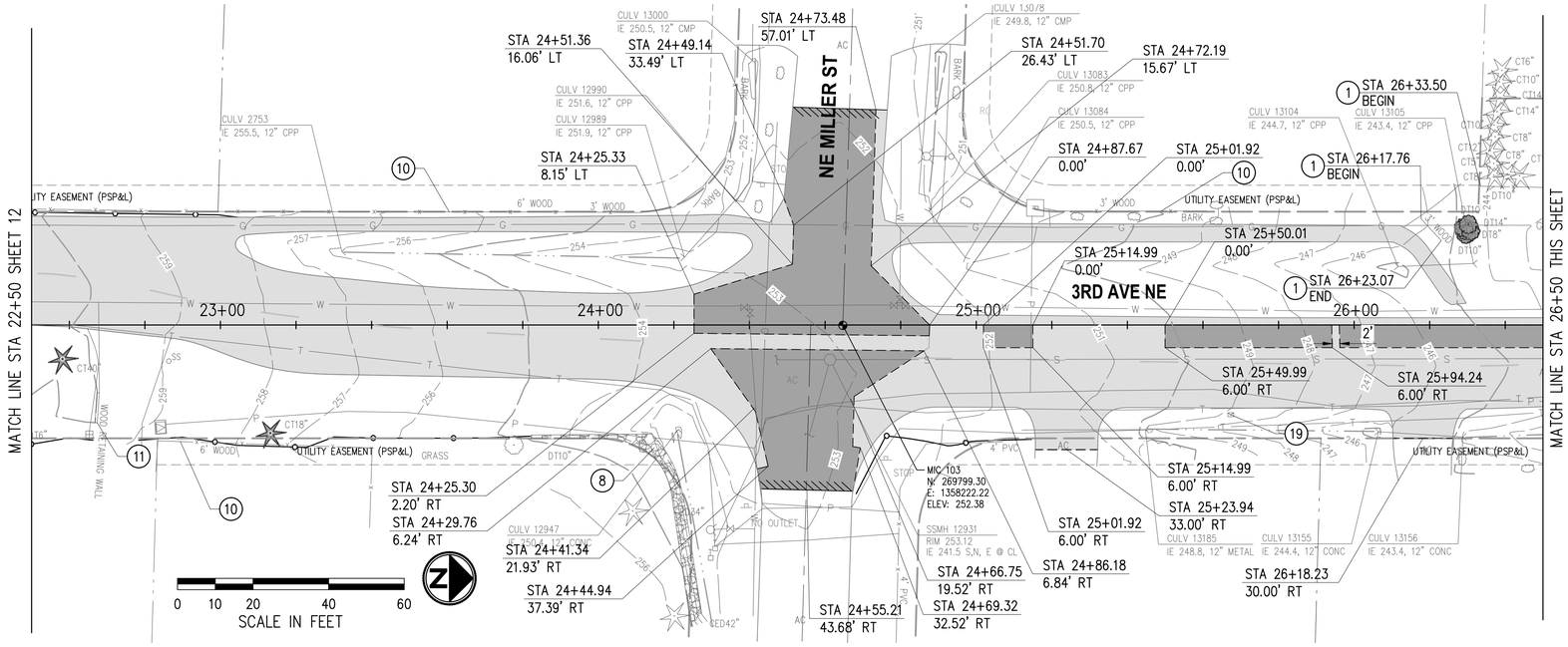
(8) PROTECT AND PRESERVE ROCKERY.

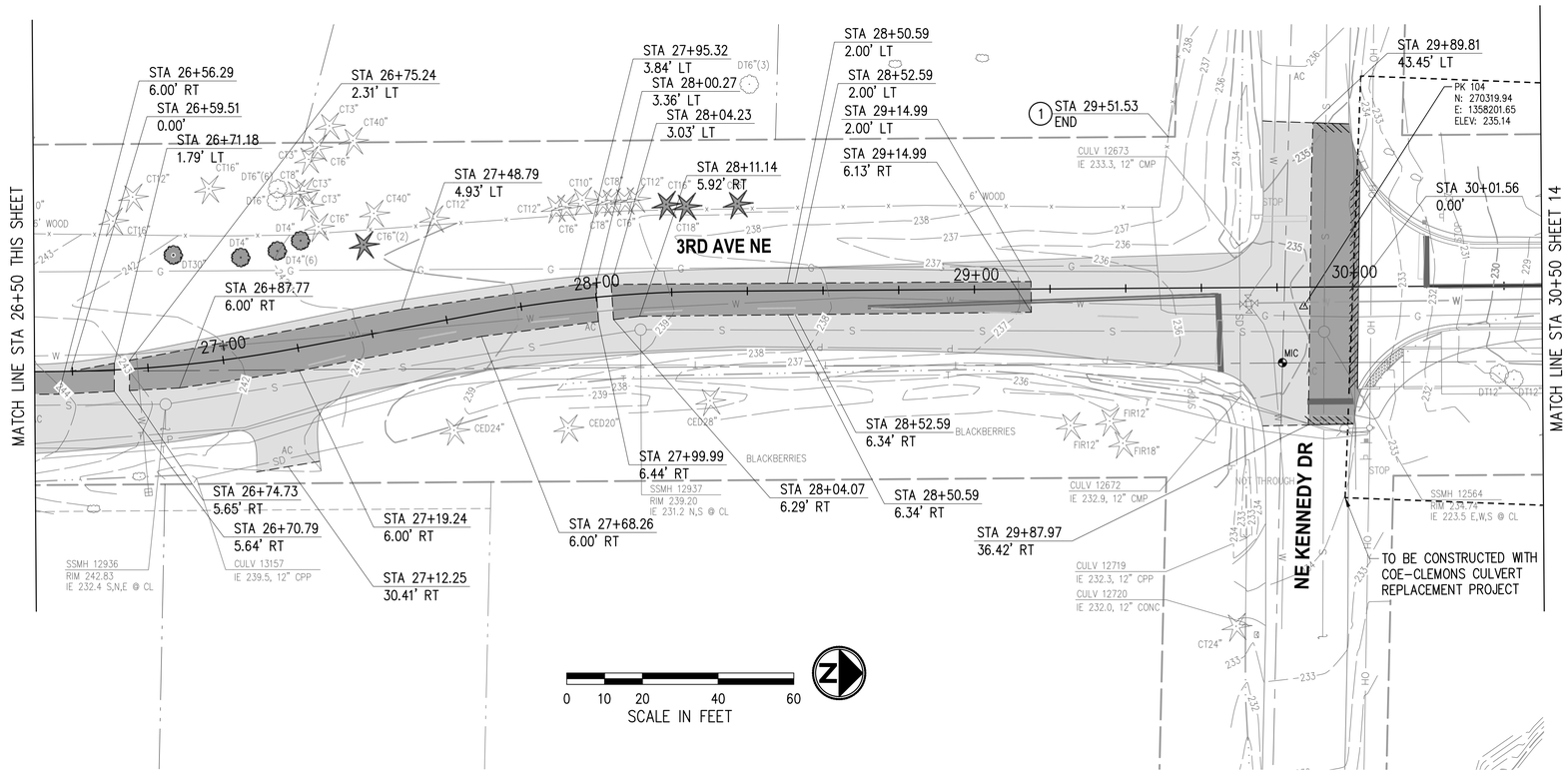
(10) PROTECT AND PRESERVE FENCE.

(11) PROTECT AND PRESERVE RETAINING WALL.

(17) GRIND STUMP AND ASSOCIATED ROOTS AT LEAST 18" BELOW NEW PAVEMENT FINISHED GRADE.

(19) RELOCATE MAILBOX AS SHOWN ON THE ROADWAY PLANS, SHEET 24–33.





LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- FULL DEPTH SAWCUT
- PLANING BITUMINOUS PAVEMENT
- CLEARING LIMITS
- SILT FENCE
- BUTT JOINT / EDGE GRIND
- REMOVE OR ABANDON WATER LINE

NO.	DATE	BY	APPR.	REVISIONS

Approved By

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OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

PSOMAS
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

SITE PREPARATION & TESC PLAN
STA 22+50 TO STA 30+50

KPG PROJECT No. 21078 | SHT 13 OF 119

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GENERAL SITE PREPARATION & TESC NOTES

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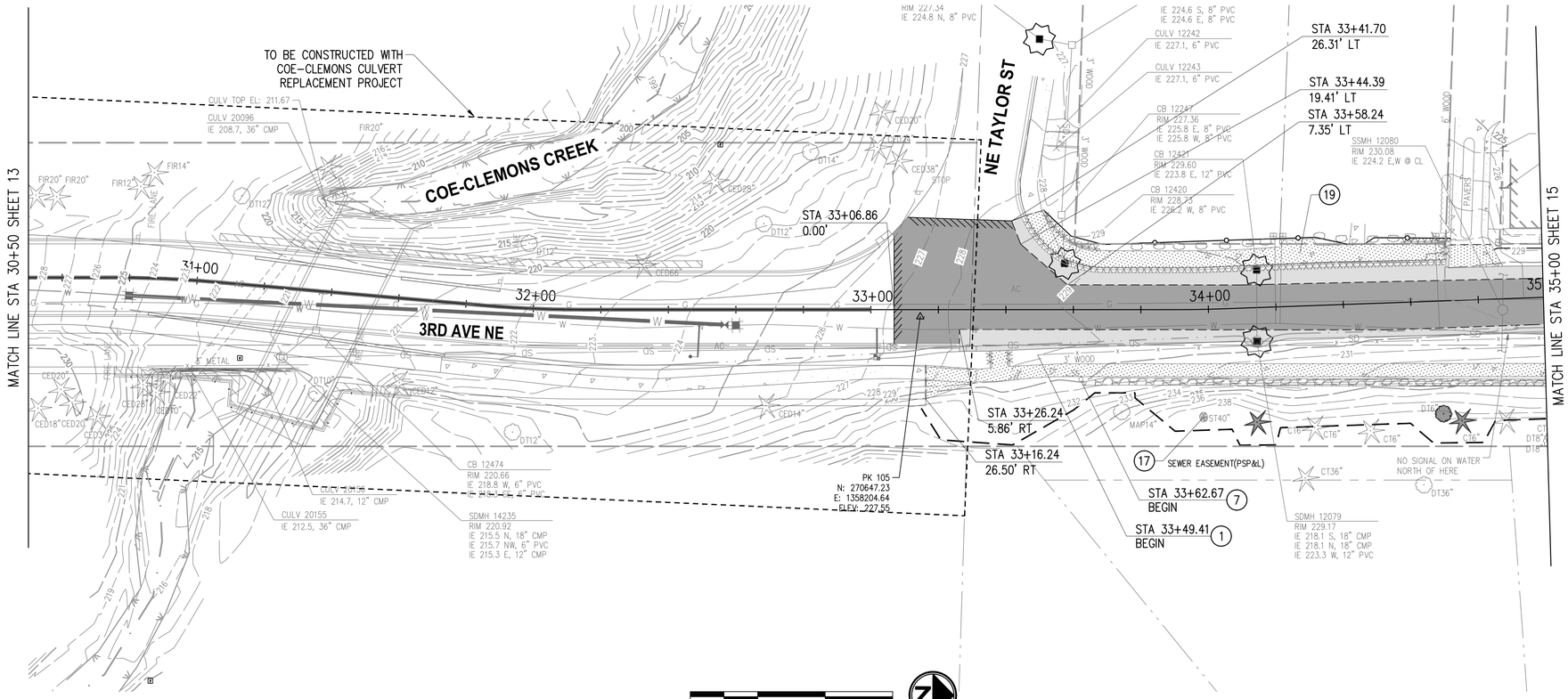
SITE PREPARATION NOTES

(1) REMOVE FENCE.

(7) REMOVE ROCKERY.

(17) GRIND STUMP AND ASSOCIATED ROOTS AT LEAST 18" BELOW NEW PAVEMENT FINISHED GRADE.

(19) RELOCATE MAILBOX AS SHOWN ON THE ROADWAY PLANS, SHEET 24–33.



0 10 20 40 60
SCALE IN FEET

LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- FULL DEPTH SAWCUT
- PLANING BITUMINOUS PAVEMENT
- CLEARING LIMITS
- SILT FENCE
- BUTT JOINT / EDGE GRIND
- REMOVE OR ABANDON WATER LINE

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OLIVIA B. PARASCHIV STATE OF WASHINGTON 41380 REGISTERED PROFESSIONAL ENGINEER

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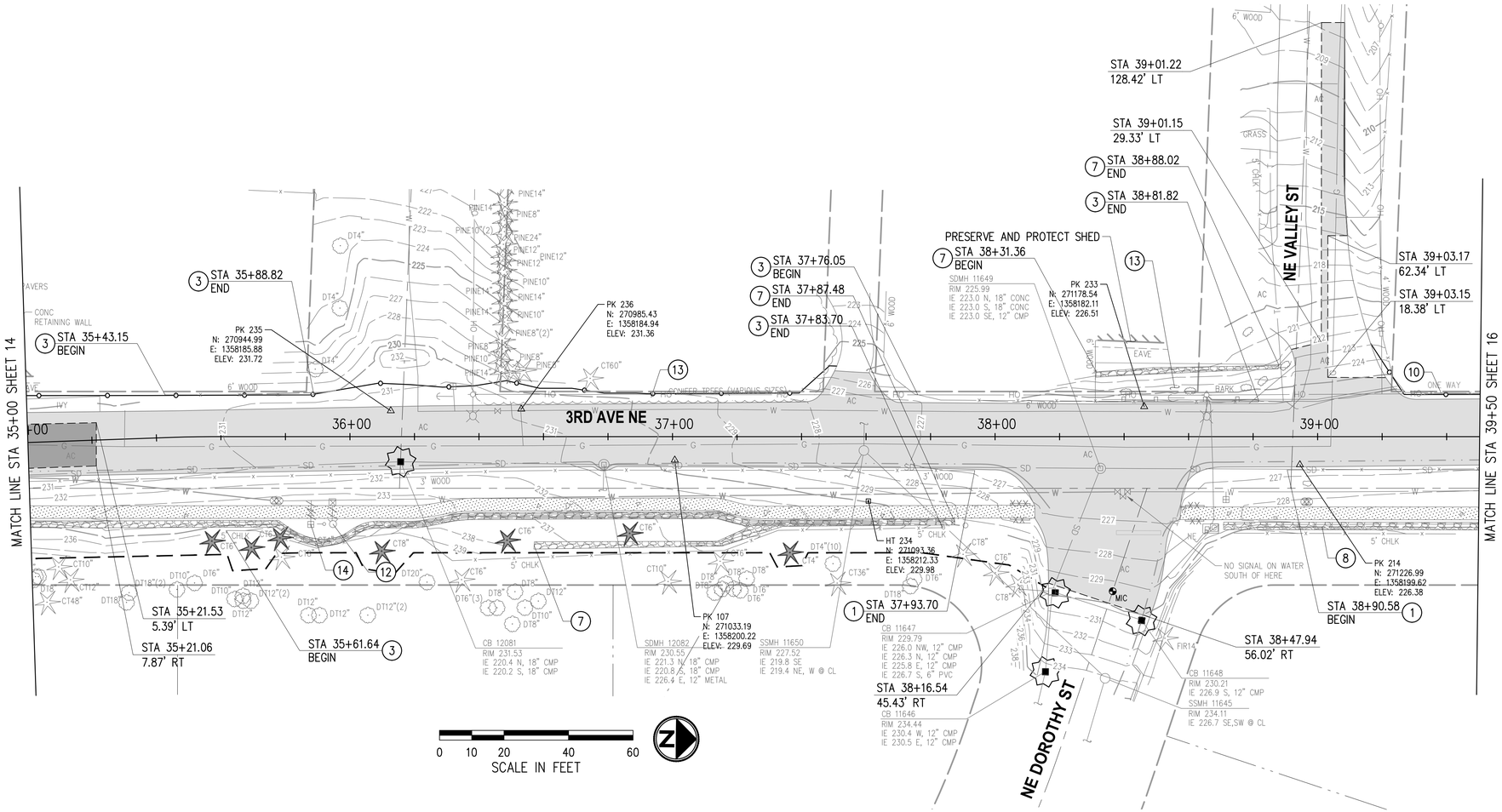
City of Duvall
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

SITE PREPARATION & TESC PLAN
STA 30+50+00 TO STA 35+00

KPG PROJECT No. 21078 | SHT 14 OF 119

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GENERAL SITE PREPARATION & TESC NOTES

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7. FOR TREATMENT OF EXISTING TREES, SEE SHEETS 18–22.

SITE PREPARATION NOTES

(1) REMOVE FENCE.

(3) REMOVE AND RELOCATE EXISTING FENCE AS SHOWN ON ROADWAY PLANS, SHEET 23–33.

(7) REMOVE ROCKERY.

(8) PROTECT AND PRESERVE ROCKERY.

(10) PROTECT AND PRESERVE FENCE.

(12) REMOVE FIRE HYDRANT ASSEMBLY AND SALVAGE TO CITY.

(13) CLEAR AND GRUB EXISTING VEGETATION AS REQUIRED TO COMPLETE WORK.

(14) RELOCATE AIR AND VACUUM RELEASE ASSEMBLY AS SHOWN ON ROADWAY PLANS.

LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- FULL DEPTH SAWCUT
- PLANING BITUMINOUS PAVEMENT
- CLEARING LIMITS
- SILT FENCE
- BUTT JOINT / EDGE GRIND
- REMOVE OR ABANDON WATER LINE

NO.	DATE	BY	APPR.	REVISIONS

Approved By

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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FILENAME

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OBP	01/2025
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OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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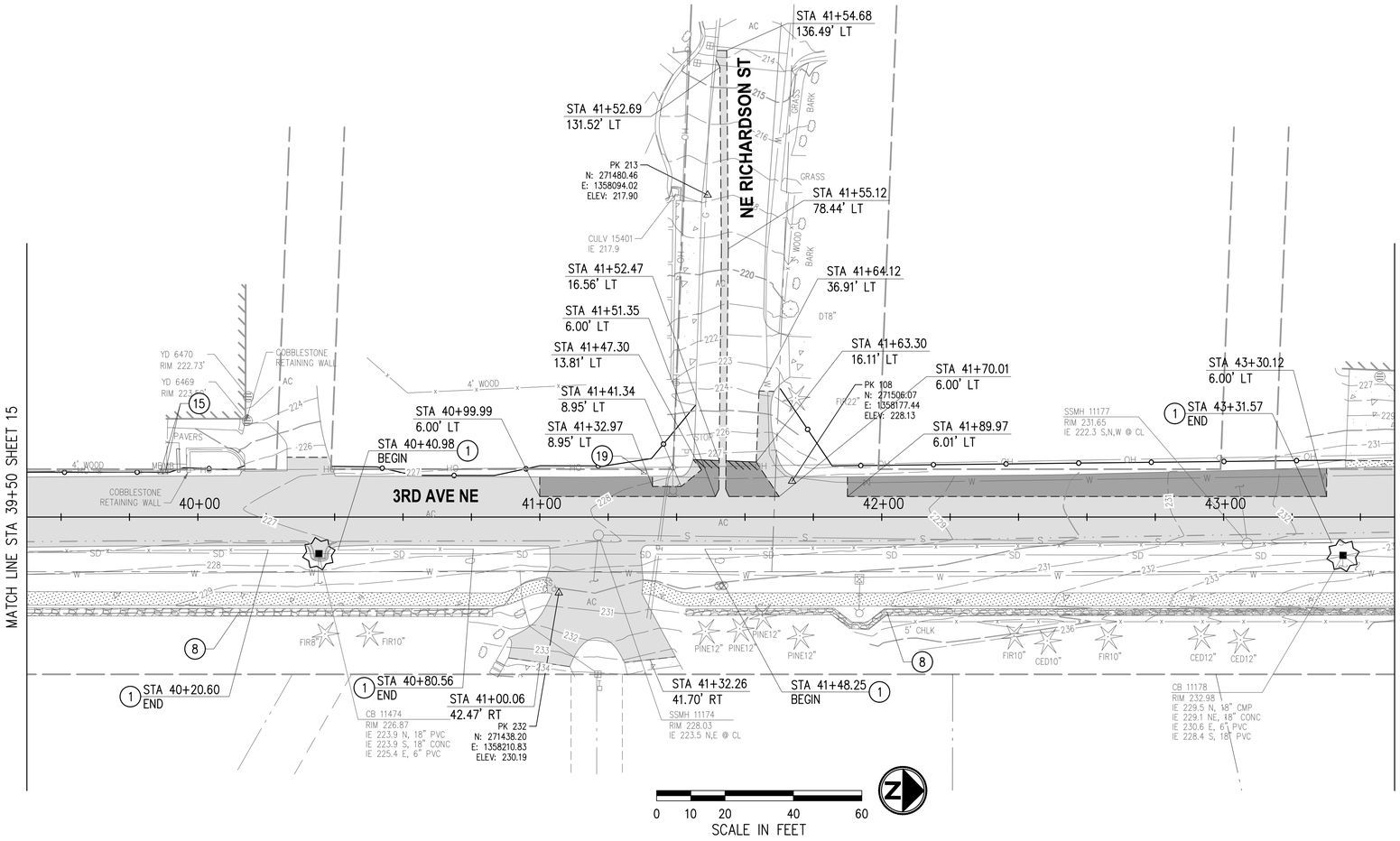
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

SITE PREPARATION & TESC PLAN
STA 35+00+00 TO STA 39+50

KPG PROJECT No. 21078

SHT 15 OF 119

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GENERAL SITE PREPARATION & TESC NOTES

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7. FOR TREATMENT OF EXISTING TREES, SEE SHEETS 18–22.

SITE PREPARATION NOTES

(1) REMOVE FENCE.

(8) PROTECT AND PRESERVE ROCKERY.

(15) PROTECT AND PRESERVE MAILBOX.

(19) RELOCATE MAILBOX AS SHOWN ON THE ROADWAY PLANS, SHEET 24–33.

LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
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- REMOVE DECIDUOUS TREE
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PROJECT MANAGER DATE

PROJECT ENGINEER DATE

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OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41388 — REGISTERED PROFESSIONAL ENGINEER

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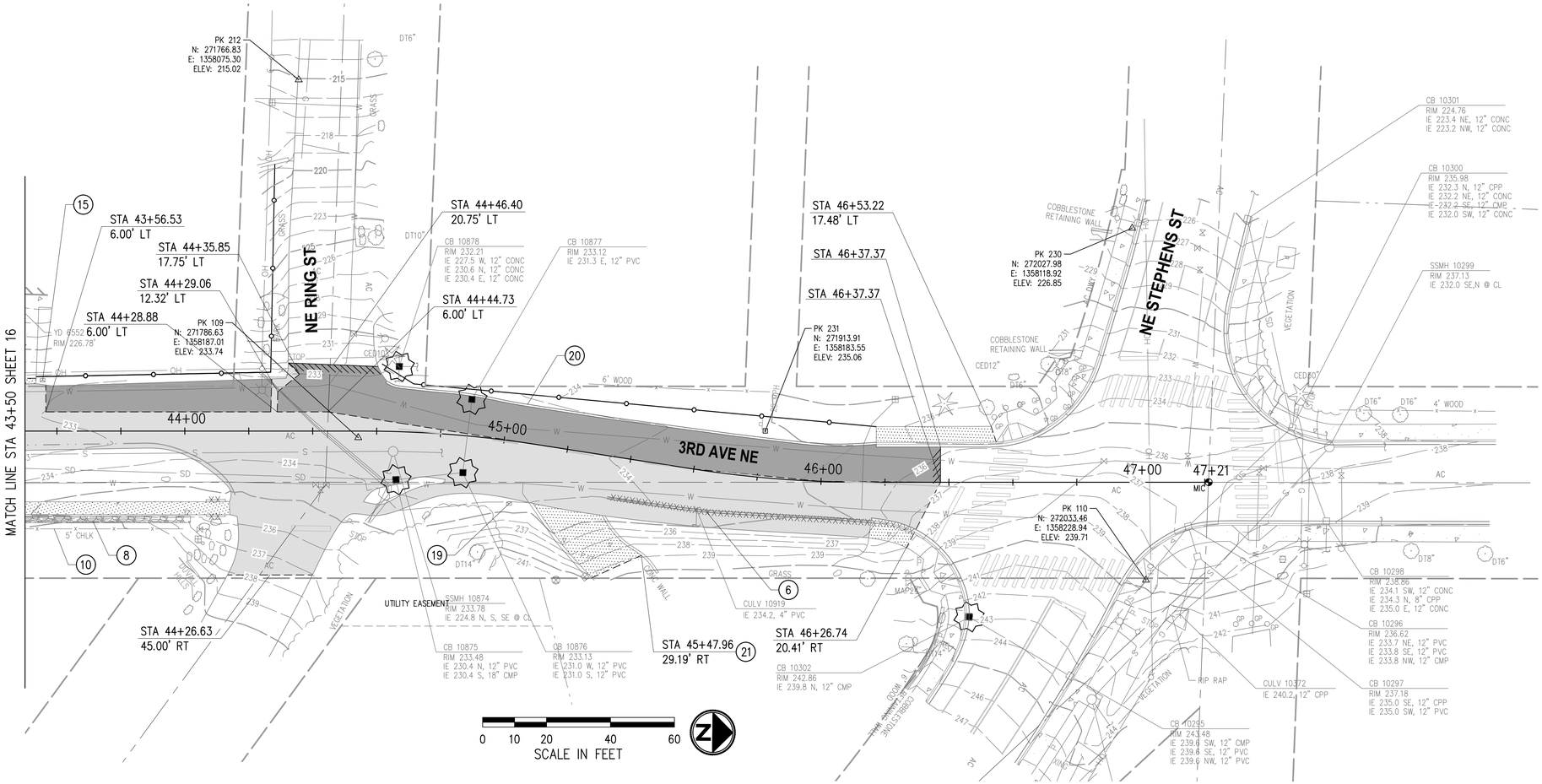
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

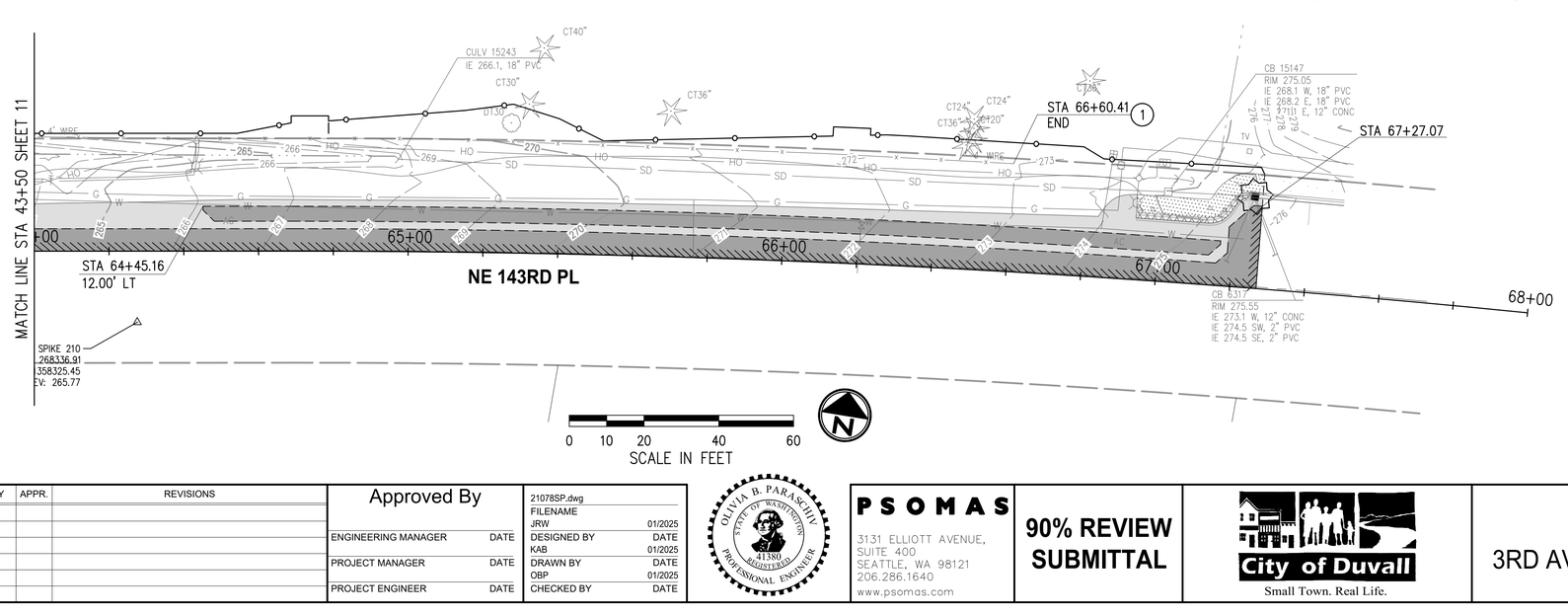
SITE PREPARATION & TESC PLAN
STA 39+50 TO STA 43+50

KPG PROJECT No. 21078

SHT 16 OF 119

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GENERAL SITE PREPARATION & TESC NOTES

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6. FOR TREATMENT OF EXISTING ROADWAY SIGNS, SEE SHEETS 114–118.
7. FOR TREATMENT OF EXISTING TREES, SEE SHEETS 18–22.

SITE PREPARATION NOTES

(1) REMOVE FENCE.

(6) REMOVE EXTRUDED CURB.

(8) PROTECT AND PRESERVE ROCKERY.

(10) PROTECT AND PRESERVE FENCE.

(15) PROTECT AND PRESERVE MAILBOX.

(19) RELOCATE MAILBOX AS SHOWN ON THE ROADWAY PLANS, SHEET 24–33.

(20) PRESERVE AND PROTECT EXTRUDED CURB.

(21) REMOVE CONCRETE WALL.

LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- FULL DEPTH SAWCUT
- PLANING BITUMINOUS PAVEMENT
- CLEARING LIMITS
- SILT FENCE
- BUTT JOINT / EDGE GRIND
- REMOVE OR ABANDON WATER LINE

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT ENGINEER	DATE

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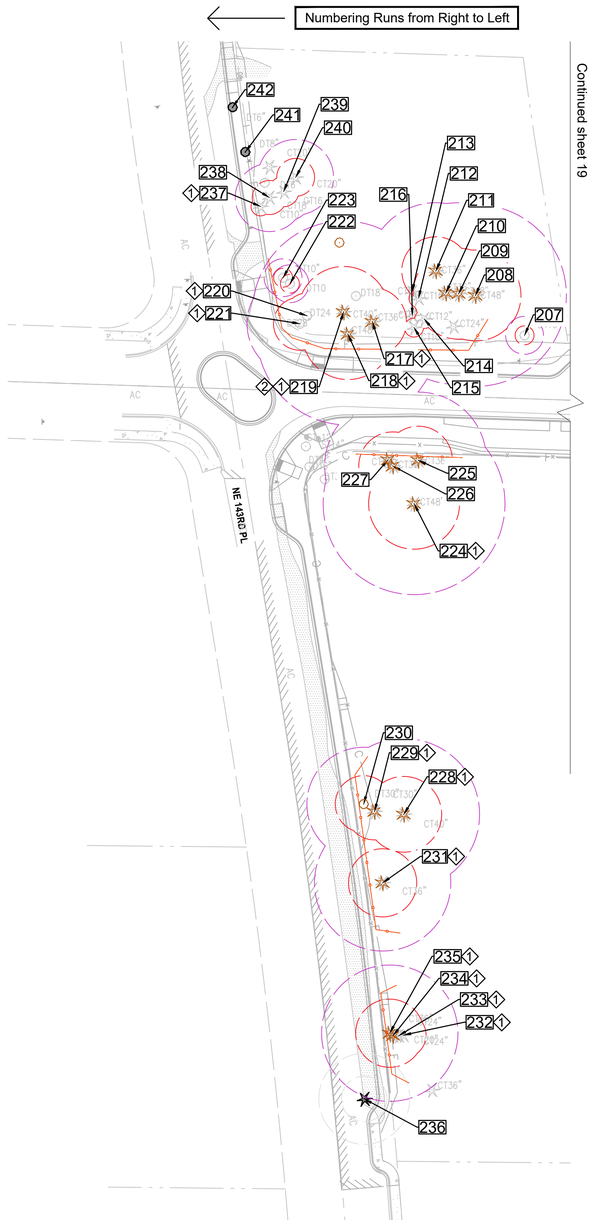
City of Duvall
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

SITE PREPARATION & TESC PLAN
STA 43+50 TO STA 47+21 AND
STA 64+00 TO STA 68+00

KPG PROJECT No. 21078 | SHT 17 OF 119

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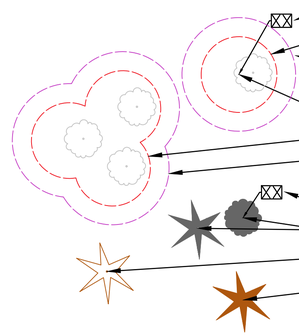
GENERAL NOTES:

1. All trees on private property to be protected.
2. Refer to the arborist memo for compliance numbers in accordance with Duvall Municipal Code.

NOTES

1 Provide arborist oversight during construction.

LEGEND



0 20 40

N

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

21078TREE-RET.dwg	
FILENAME	
TF	01/2025
DESIGNED BY	DATE
TF	01/2025
DRAWN BY	DATE
LG & BR	01/2025
CHECKED BY	DATE

STATE OF WASHINGTON · TRISTAN FIELDS · NO. 25OMERS EXP · LICENSED LANDSCAPE ARCHITECT

LAND MEETS WATER
2212 Walnut Ave SW | Seattle, WA 98116 (206) 947-3928
ISA Municipal Arborist & Tree Risk Assessor Qualified PN-8626AM

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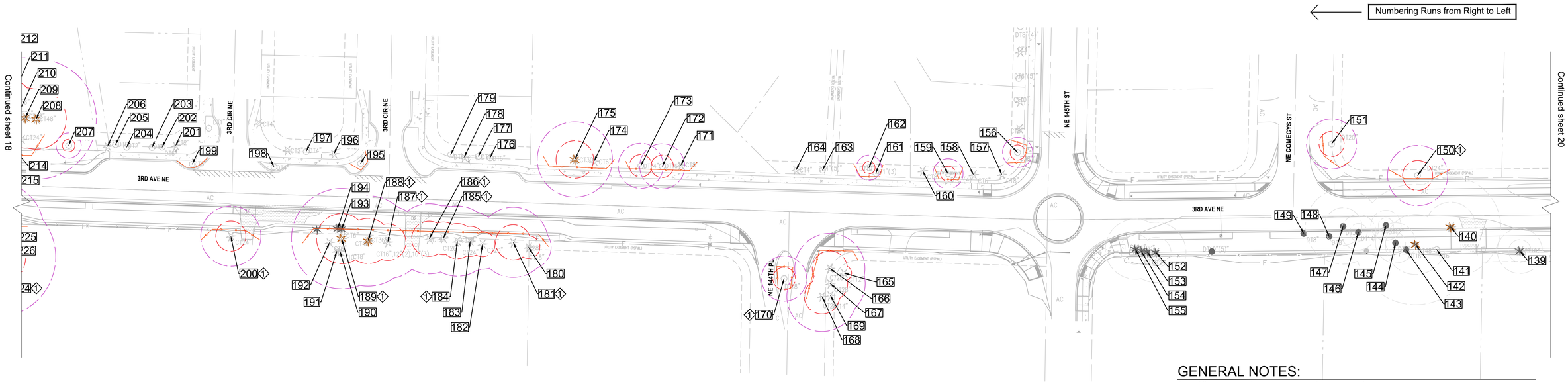
City of Duvall
Small Town. Real Life.

CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

TREE RETENTION PLANS

KPG PROJECT No. 21078 | SHT 18 OF 119

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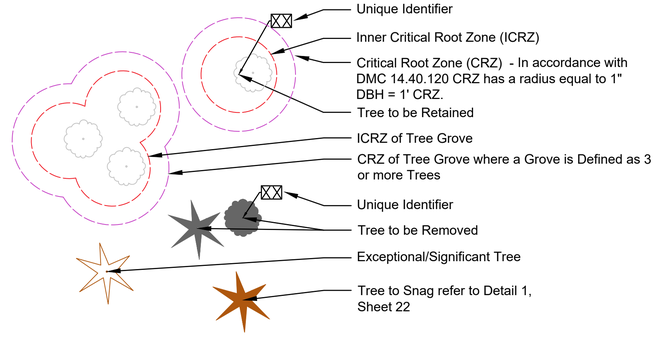
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LEGEND



0 20 40

N

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PROJECT ENGINEER	DATE

21078TREE-RET.dwg	
FILENAME	
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LG & BR	01/2025
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STATE OF WASHINGTON · TRISTAN FIELDS · NO. 23004693 EXP. · LICENSED LANDSCAPE ARCHITECT

LAND MEETS WATER
2212 Walnut Ave SW | Seattle, WA 98116 (206) 547-3008
ISA Municipal Arborist & Tree Risk Assessor Qualified PN-0828AM

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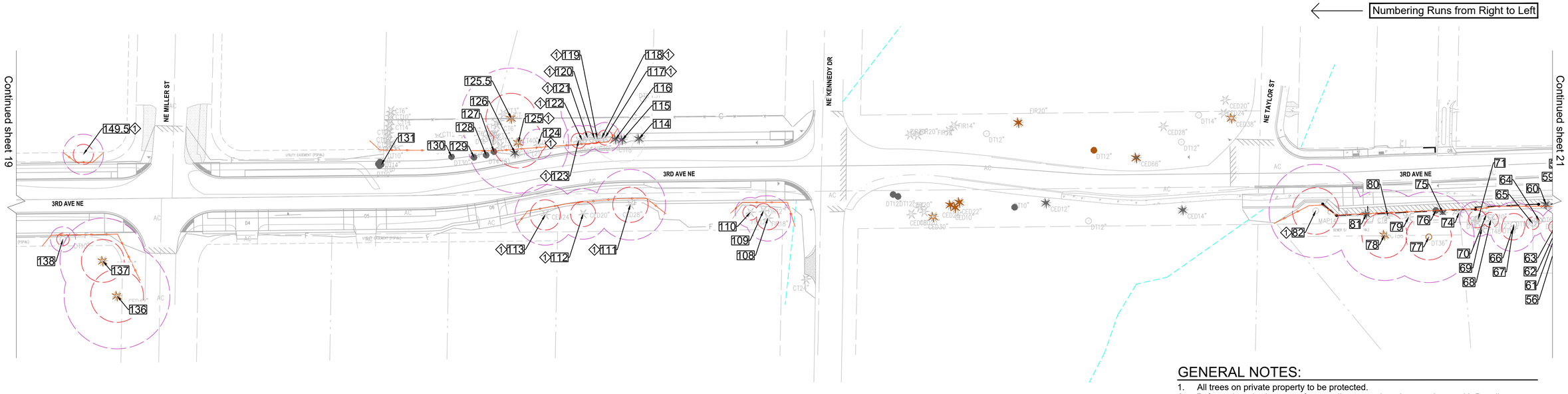
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

TREE RETENTION PLANS

KPG PROJECT No. 21078

SHT 19 OF 119

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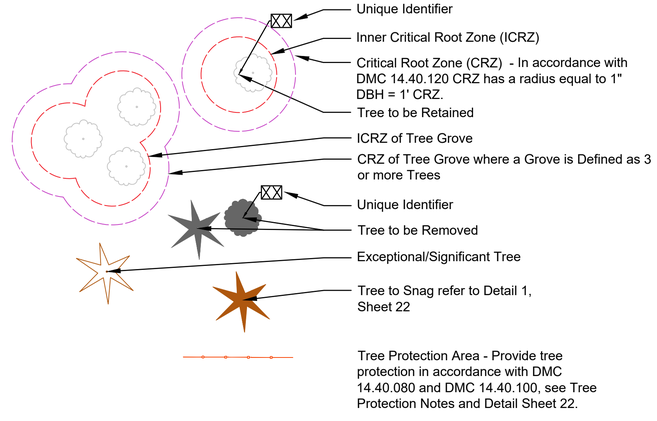
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LEGEND



0 20 40

N

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STATE OF WASHINGTON · TRISTAN FIELDS · NO. 23004693 EXP. · LICENSED LANDSCAPE ARCHITECT

LAND MEETS WATER
2212 Walnut Ave SW | Seattle, WA 98116 (206) 547-3008
ISA Landgod Arborist & Tree Risk Assessor Qualified PN-0328AM

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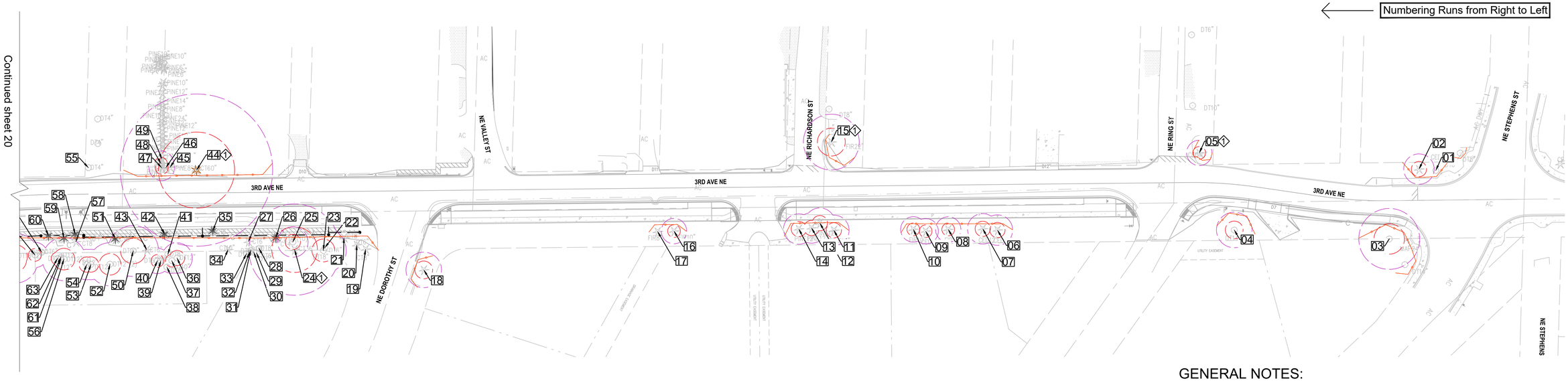
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

TREE RETENTION PLANS

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SHT 20 OF 119

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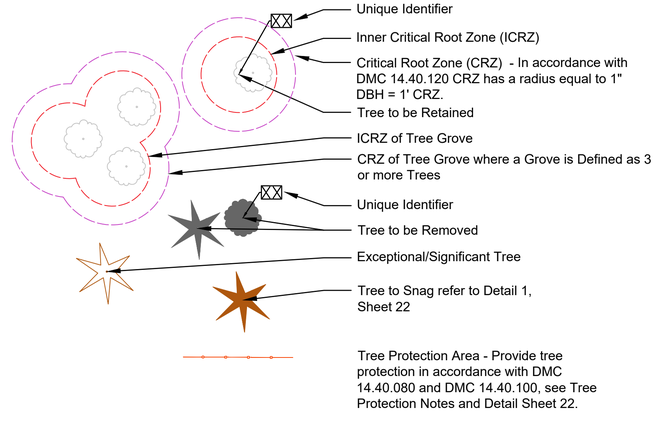
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NOTES

1 Provide arborist oversight during construction.

LEGEND



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NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

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TF 01/2025
DESIGNED BY DATE
TF 01/2025
DRAWN BY DATE
LG & BR 01/2025
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STATE OF WASHINGTON · TRISTAN FIELDS · NO. 23004693 EXP. · LICENSED LANDSCAPE ARCHITECT

LAND MEETS WATER
2212 Walnut Ave SW | Seattle, WA 98116 (206) 547-3928
ISA Landgod Arborist & Tree Risk Assessor Qualified
PN-0328AM

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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

TREE RETENTION PLANS

KPG PROJECT No. 21078

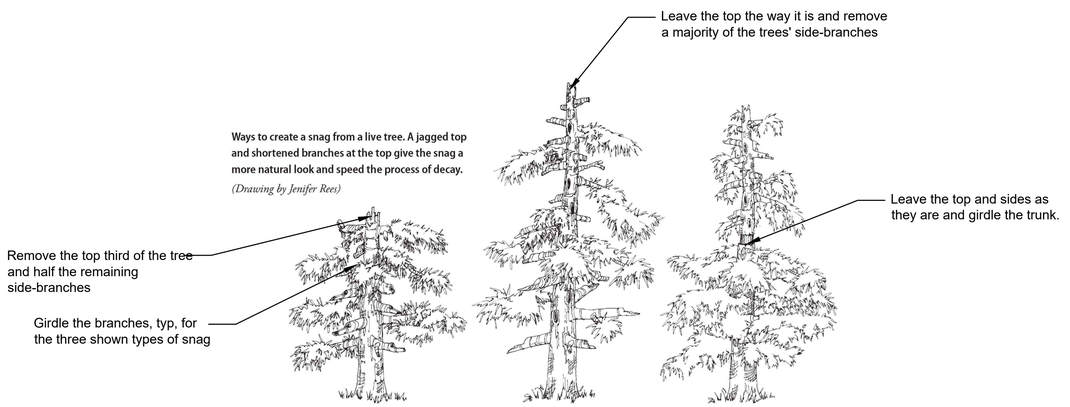
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TREE PROTECTION NOTES:

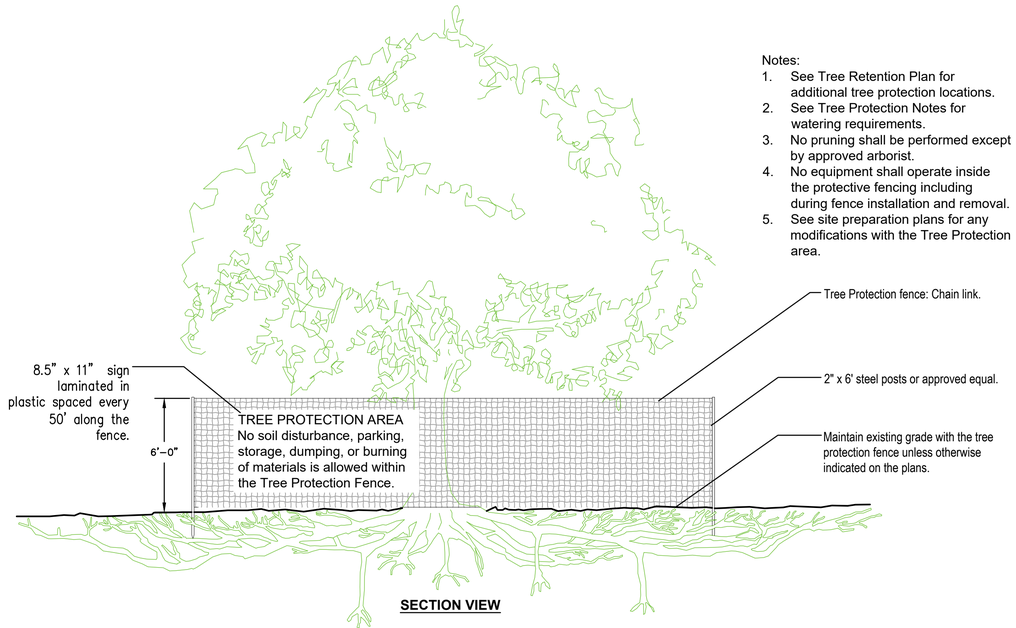
To ensure long-term viability of trees and tree stands identified for protection permit plans and construction activities shall comply with the following tree retention requirements:

1. Tree protection barriers shall be installed along the outer edge and completely surround the critical root zone of trees to be protected prior to any land disturbance and shall remain until the director authorizes tree protection barrier removal.
2. Tree protection barriers shall be a minimum of six (6) feet high, constructed of chain link or similar material, subject to approval by the Director. "Tree Protection Area" signs shall be posted visibly on all sides of the fenced areas facing toward areas of site grading and construction. On large project sites, the director may also require that signs requesting subcontractor cooperation and compliance with tree protection standards be posted at site entrances.
3. Place tree protection fencing along Limits of Disturbance (LOD) line. If Inner Critical Root Zone (ICRZ) occurs within Limits of Work, place tree protection fencing along edge of Limits of Work.
4. Native understory trees, shrubs and other vegetation shall be protected within the designated tree protection area.
5. Construction planning and activities within the critical root zone of retained significant trees:
    a. To ensure that structures, utilities, and roadways are located an adequate distance from a protected tree and to allow adequate room for construction activities, the limits of construction clearing and grading shall generally be located no closer than the critical root zone of all protected trees.
    b. Except for structures proposed as a raised deck, bay window, or cantilevered or otherwise raised above the ground's surface so as not to disrupt the tree's roots, no structures shall be allowed within the interior critical root zone (ICRZ).
    c. Sidewalks and utilities may be located within the critical root zone of a protected tree, provided that construction methods and materials used will result in minimal disruption of the tree's roots, and that additional measures for tree protection are proposed and approved which will ensure the long-term viability of the tree.
    d. Grade within critical root zone: the grade shall not be elevated or reduced within the critical root zone of trees to be preserved without the director's authorization based on recommendations from a professional arborist.
    e. All construction activities, including, but not limited to, staging any materials, operating or parking equipment, or dumping concrete washout or other chemicals, shall be prohibited within the critical root zone of protected trees. During construction, no person shall attach any object to any tree designated for protection.
6. In addition, the following is required:
    a. If equipment is authorized to operate within a tree protection area, the soil and critical root zone of a tree must be covered with mulch to a depth of at least six (6) inches or with plywood, steel plates or similar material in order to protect roots and soil from potential damage caused by heavy equipment.
    b. To minimize root damage wherever development is proposed and allowed within the critical root zone, a two (2) foot-deep trench shall be hand-excavated at edge of the allowed construction limit, to cleanly sever the roots of trees to be retained. Never rip or shred roots with heavy equipment.
    c. Tree roots smaller than 2-inches in diameter must be cut flush along the edge of the trench or tunnel. Cut off roots cleanly with a sharp blade when roots are exposed or disturbed by work activities.
7. Preventative Measures. In addition to the above minimum tree protection measures, the following preventative measures, consistent with best management practices for maintaining the health of the trees, shall be applied:
    a. Pruning of visible deadwood on trees to be protected or transplanted;
    b. Application of fertilizer to enhance the vigor of stressed trees;
    c. Use of soil amendments and soil aeration in tree protection and planting areas;
    d. Mulching over tree critical root zone areas; and
    e. Ensuring proper water availability during and immediately after construction.
8. The Project Manager may order the Work stopped if: protection measures are not completed prior to start of the Work; Unauthorized uses of protected areas are occurring; or Tree protection fencing is not restored within 24 hours of notice to do so.
9. Instead of stump grinding create a habitat snag or a stump of trees along the borders of retained groves of trees. Refer to Detail 1 Sheet 22. Stumps & habitat snags increase the safety of surrounding trees.



Ways to create a snag from a live tree. A jagged top and shortened branches at the top give the snag a more natural look and speed the process of decay.
(Drawing by Jenifer Rees)

1 DETAIL - CREATING A HABITAT SNAG
NTS



2 TREE PROTECTION
1/4" = 1'-0"

Notes:
1. See Tree Retention Plan for additional tree protection locations.
2. See Tree Protection Notes for watering requirements.
3. No pruning shall be performed except by approved arborist.
4. No equipment shall operate inside the protective fencing including during fence installation and removal.
5. See site preparation plans for any modifications with the Tree Protection area.

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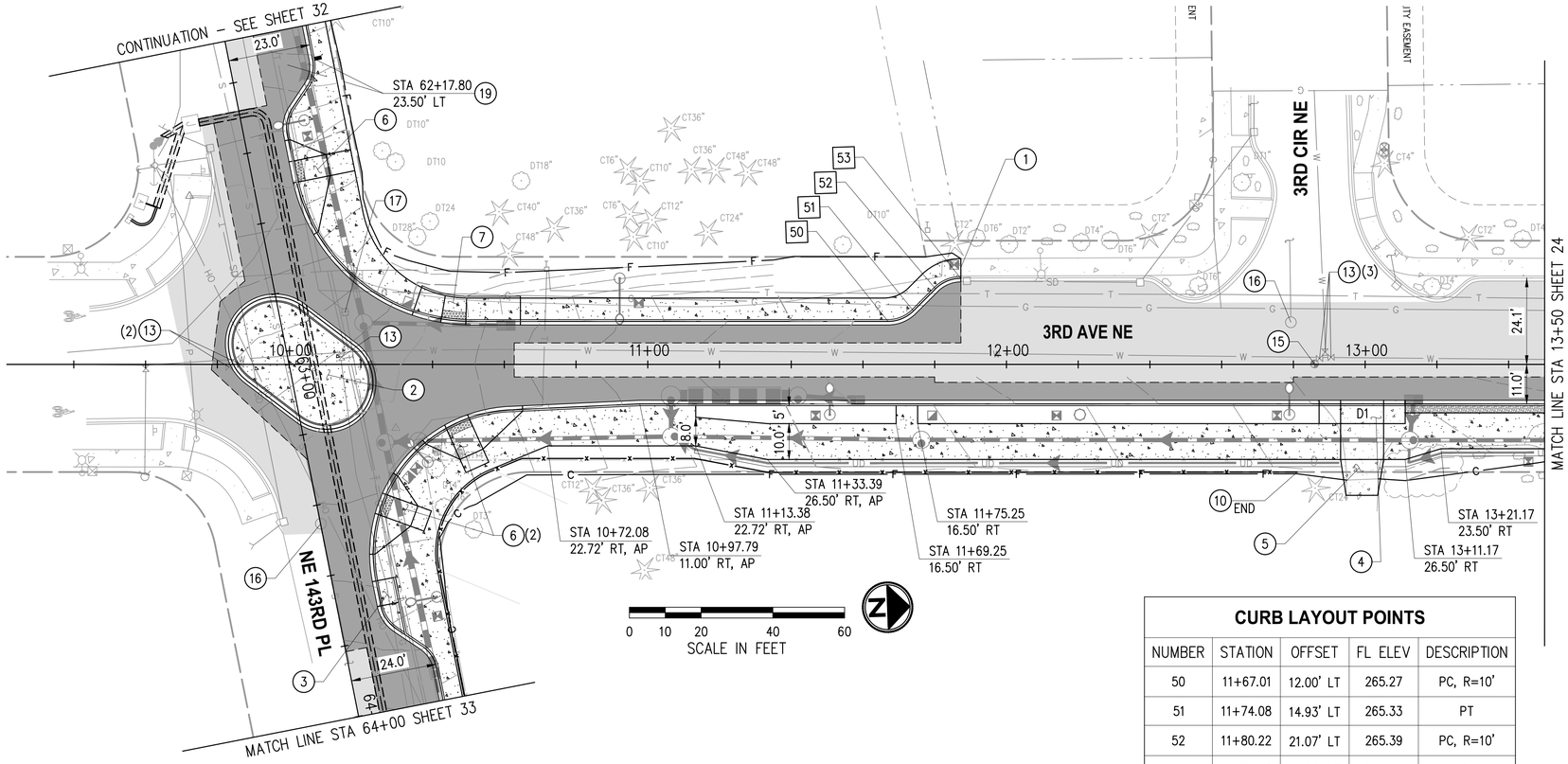
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

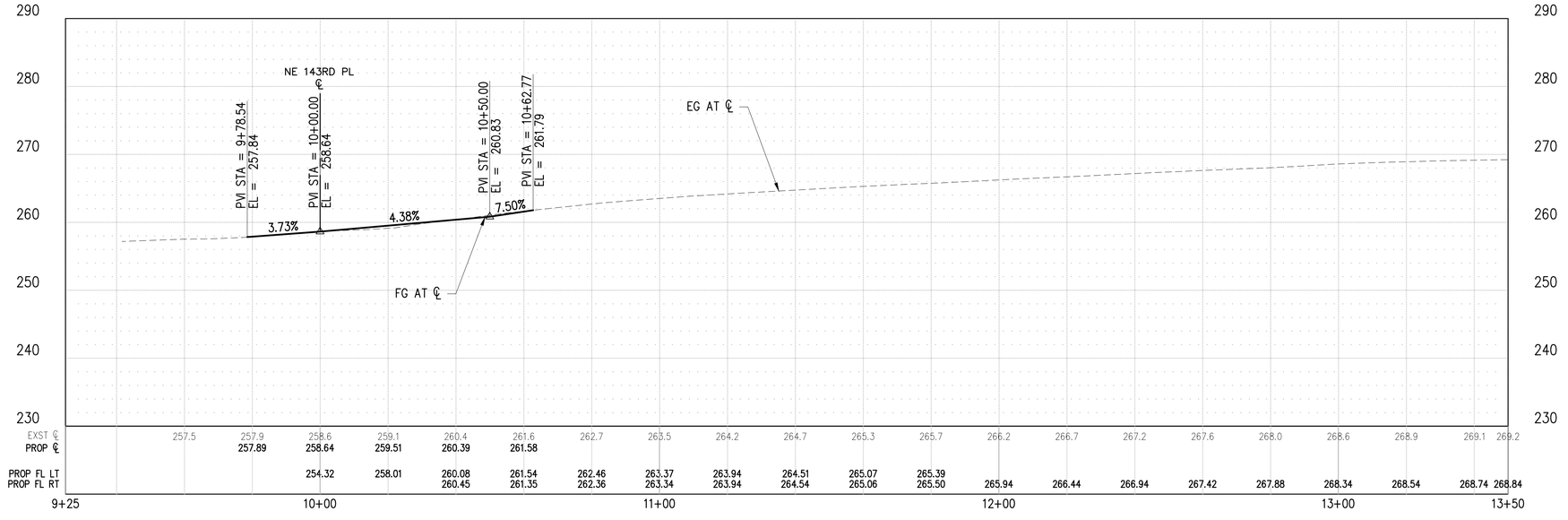
TREE RETENTION PLANS

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CURB LAYOUT POINTS				
NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
50	11+67.01	12.00' LT	265.27	PC, R=10'
51	11+74.08	14.93' LT	265.33	PT
52	11+80.22	21.07' LT	265.39	PC, R=10'
53	11+87.18	24.00' LT	265.45	PT



GENERAL NOTES

1. CONSTRUCT CEMENT CONC CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION PLANS, SHEETS 11–17.
3. FOR STORMWATER PLAN & PROFILES AND DETAILS, SEE SHEETS 34–55.
4. FOR IRRIGATION AND LANDSCAPING PLANS AND DETAILS, SEE SHEETS 95–108.
5. FOR URBAN DESIGN PLANS AND DETAILS, SEE SHEET 87–94.
6. FOR ILLUMINATION PLANS AND DETAILS, SEE SHEETS 74–86.
7. FOR JUT PLANS AND DETAILS, SEE SHEETS 109–113.
8. FOR CHANNELIZATION & SIGNING PLANS AND DETAILS, SEE SHEETS 114–119.

LEGEND

- NEW HMA PAVEMENT SECTION, SEE SHEETS 5–8
- HMA CL 1/2" PG 58H–22 OVERLAY
- CEMENT CONC PAVEMENT
- SIDEWALK WITH DECORATIVE SURFACE TREATMENT
- C — CUT EMBANKMENT LINE
- F — FILL EMBANKMENT LINE

CONSTRUCTION NOTES

(1) MATCH EXISTING.

(2) CONSTRUCT MOUNTABLE MINI ROUNDABOUT. SEE DETAIL SHEET 60.

(3) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A (FOR BIKES), SEE SHEET 62.

(4) CONSTRUCT CEMENT CONC DRIVEWAY ENTRANCE PER DETAILS AND SCHEDULE, SHEET 9 AND DRIVEWAY PLAN & PROFILE, SHEETS 72–73.

(5) RECONSTRUCT DRIVEWAY PER SHEETS 9 AND 72–73.

(6) CONSTRUCT CEMENT CONC CURB RAMP TYPE PERPENDICULAR A PER COD STD DETAIL 3–040–002 AND SHEETS 61–71.

(7) CONSTRUCT CEMENT CONC CURB RAMP TYPE PARALLEL A PER COD STD DETAIL 3–040–003 AND SHEETS 61–71.

(10) INSTALL 4' BLACK VINYL COATED CHAIN LINK FENCE PER DETAIL, SHEET 10.

(13) ADJUST WATER VALVE BOX TO GRADE.

(15) ADJUST MONUMENT CASE AND COVER TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

(17) ADJUST GAS VALVE TO GRADE.

(19) RELOCATE MAILBOX PER COD STD DETAIL 3–050–012.

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Approved By

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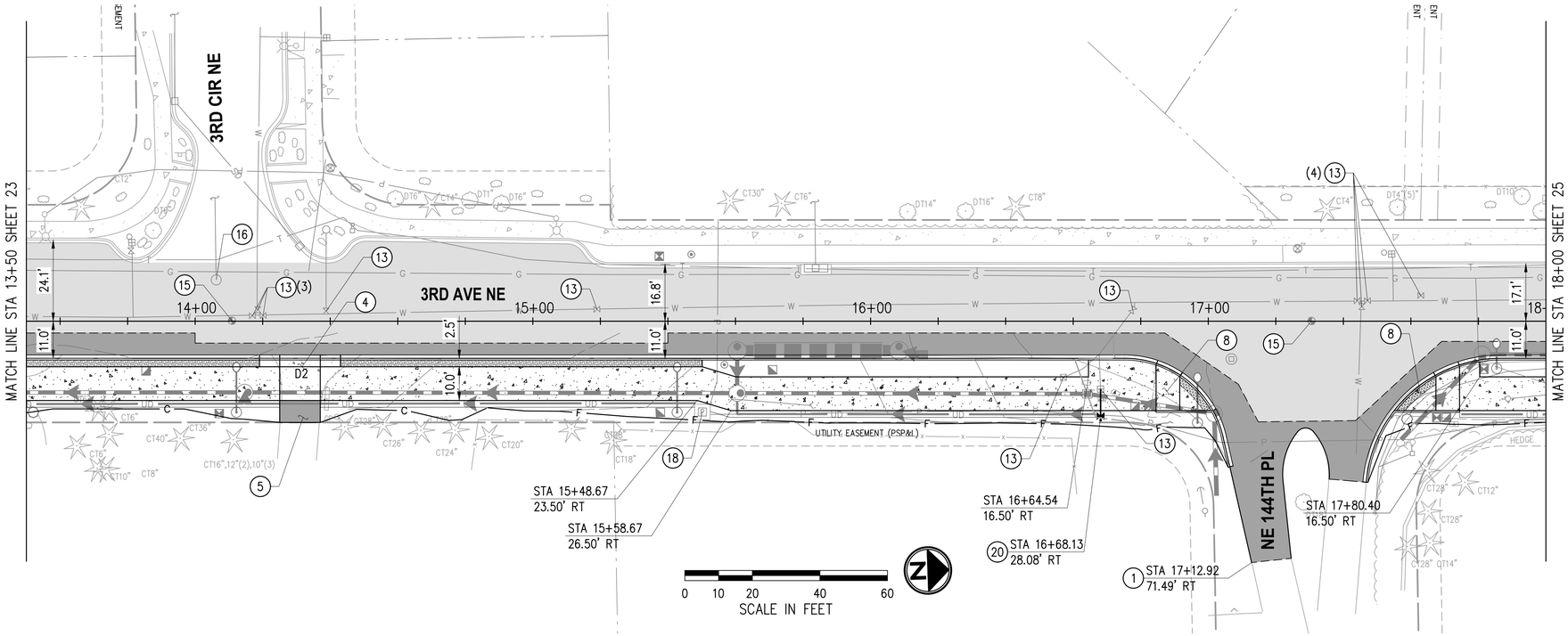
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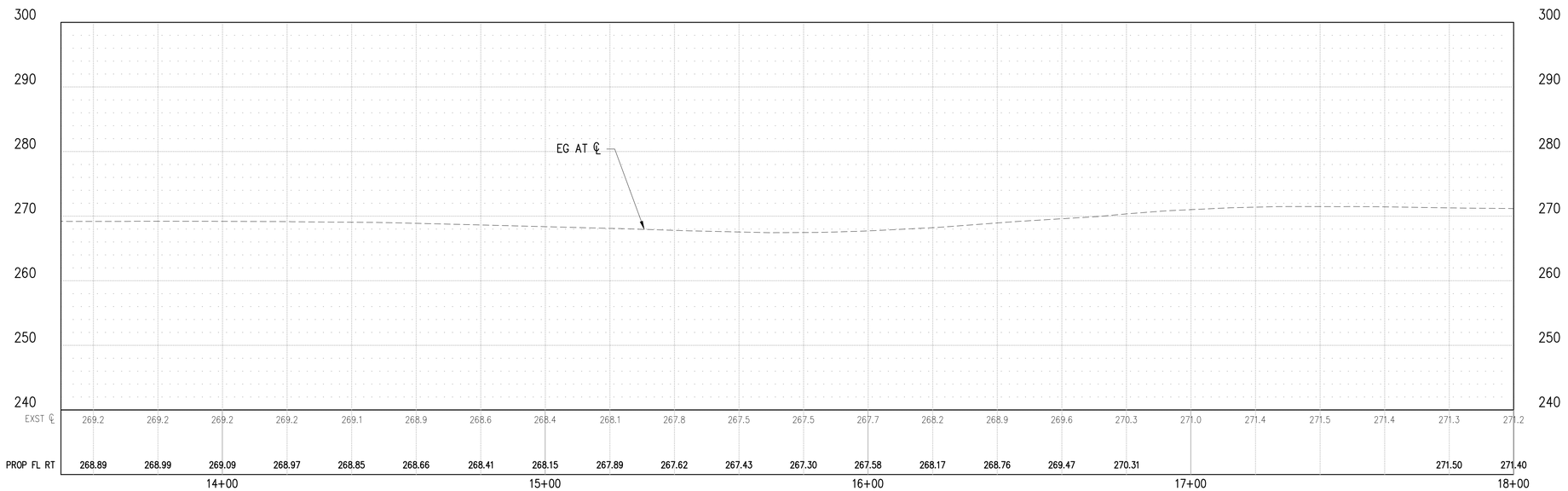
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3RD AVENUE NE RECONSTRUCTION

ROADWAY PLAN & PROFILE
STA 9+25 TO STA 13+50

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GENERAL NOTES

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LEGEND

- NEW HMA PAVEMENT SECTION, SEE SHEETS 5–8
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- CEMENT CONC PAVEMENT
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- C — CUT EMBANKMENT LINE
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CONSTRUCTION NOTES

(1) MATCH EXISTING.

(4) CONSTRUCT CEMENT CONC DRIVEWAY ENTRANCE PER DETAILS AND SCHEDULE, SHEET 9 AND DRIVEWAY PLAN & PROFILE, SHEETS 72–73.

(5) RECONSTRUCT DRIVEWAY PER SHEETS 9 AND 72–73.

(8) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A PER COD STD DETAIL 3–040–005 AND SHEETS 61–71.

(13) ADJUST WATER VALVE BOX TO GRADE.

(15) ADJUST MONUMENT CASE AND COVER TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

(18) FRANCHISE UTILITY VAULT. SEE JUT PLANS, SHEETS 109–112.

(20) RELOCATE WATER SAMPLE STATION.

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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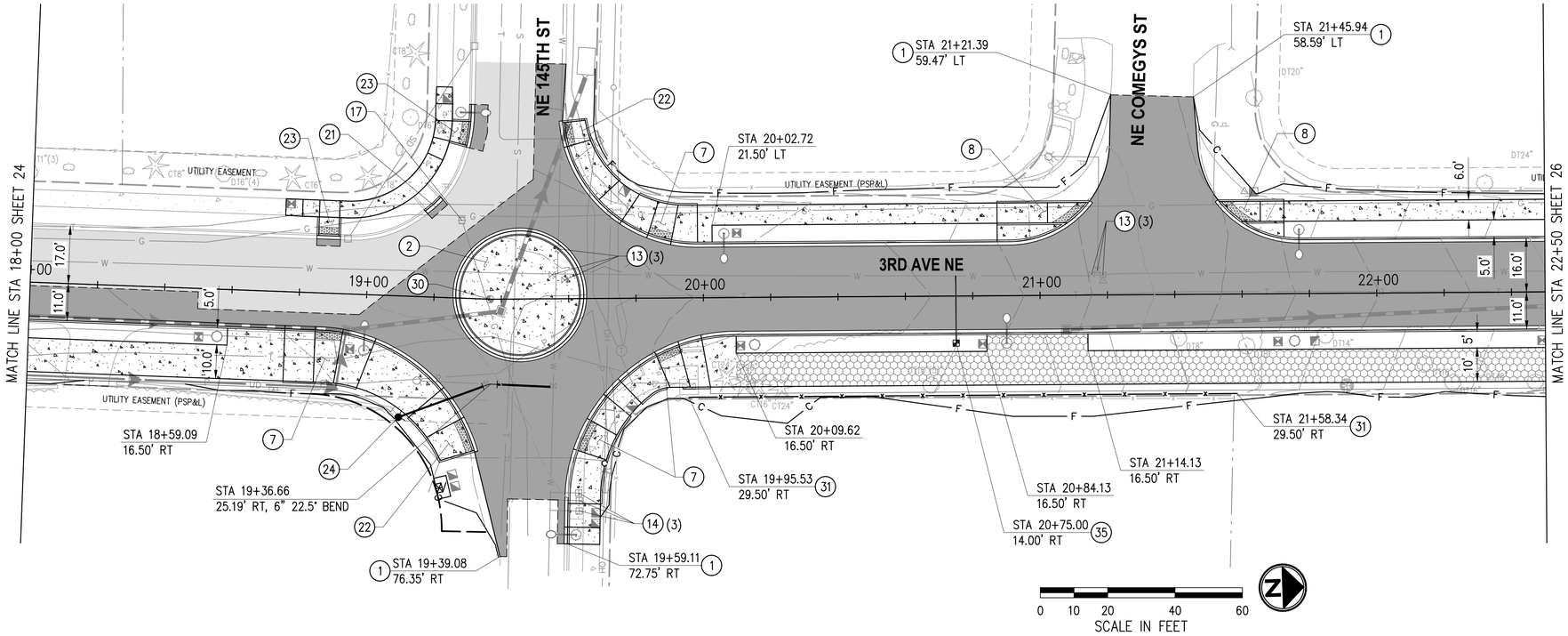
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

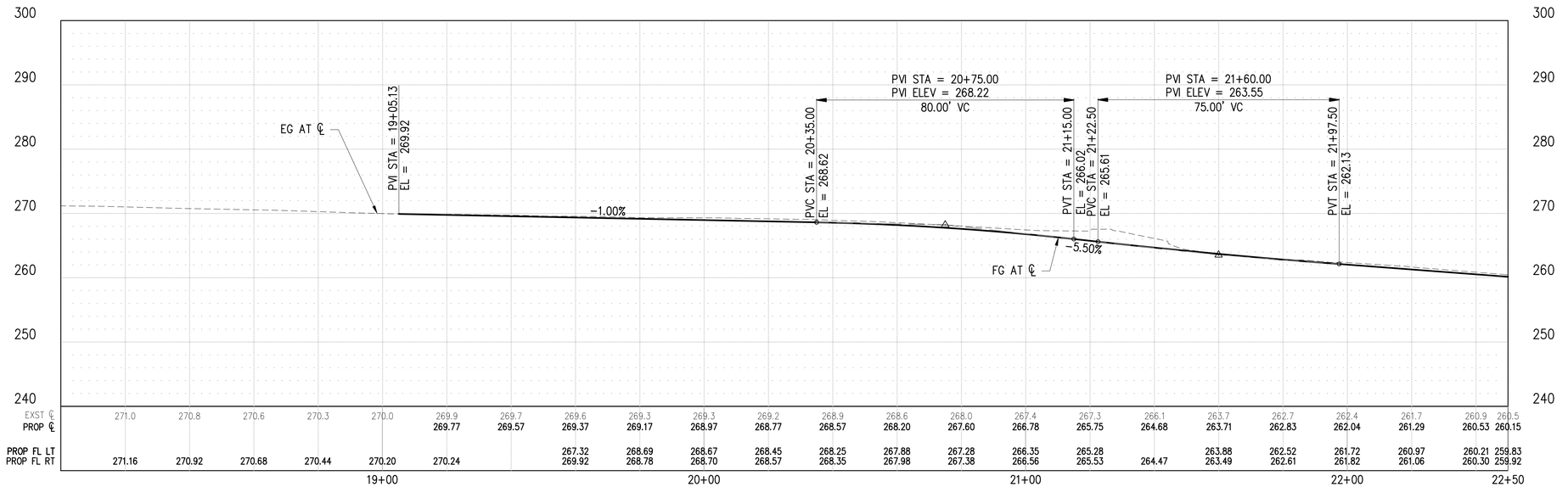
ROADWAY PLAN & PROFILE
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GENERAL NOTES

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LEGEND

- NEW HMA PAVEMENT SECTION, SEE SHEETS 5–8
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- CEMENT CONC PAVEMENT
- PERVIOUS CONC SIDEWALK
- C — CUT EMBANKMENT LINE
- F — FILL EMBANKMENT LINE

CONSTRUCTION NOTES

(1) MATCH EXISTING.

(2) CONSTRUCT MOUNTABLE MINI ROUNDABOUT. SEE DETAIL SHEET 60.

(7) CONSTRUCT CEMENT CONC CURB RAMP TYPE PARALLEL A PER COD STD DETAIL 3-040-003 AND SHEETS 61–71.

(8) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A PER COD STD DETAIL 3-040-005 AND SHEETS 61–71.

(13) ADJUST WATER VALVE BOX TO GRADE.

(14) ADJUST WATER METER BOX TO GRADE.

(17) ADJUST GAS VALVE TO GRADE.

(21) CONSTRUCT VERTICAL CURB AND GUTTER, 6" EXPOSURE, PER COD STD DETAIL 3-030-002. MATCH EXISTING.

(22) CONSTRUCT CEMENT CONC CURB RAMP TYPE PARALLEL B PER COD STD DETAIL 3-040-003 AND SHEETS 61–71.

(23) CONSTRUCT CEMENT CONC CURB RAMP TYPE PERPENDICULAR B PER COD STD DETAIL 3-040-002 AND SHEETS 61–71.

(24) INSTALL FIRE HYDRANT ASSEMBLY PER COD STD DET 2-060-001.

(30) REESTABLISH SURVEY MONUMENT WITH CASE AND COVER PER COD STD DETAIL 3-050-014.

(31) RELOCATE FENCE.

(35) INSTALL NEW 1-INCH IRRIGATION SERVICE PER COD STD DETAIL 2-090-003.

NO.	DATE	BY	APPR.	REVISIONS

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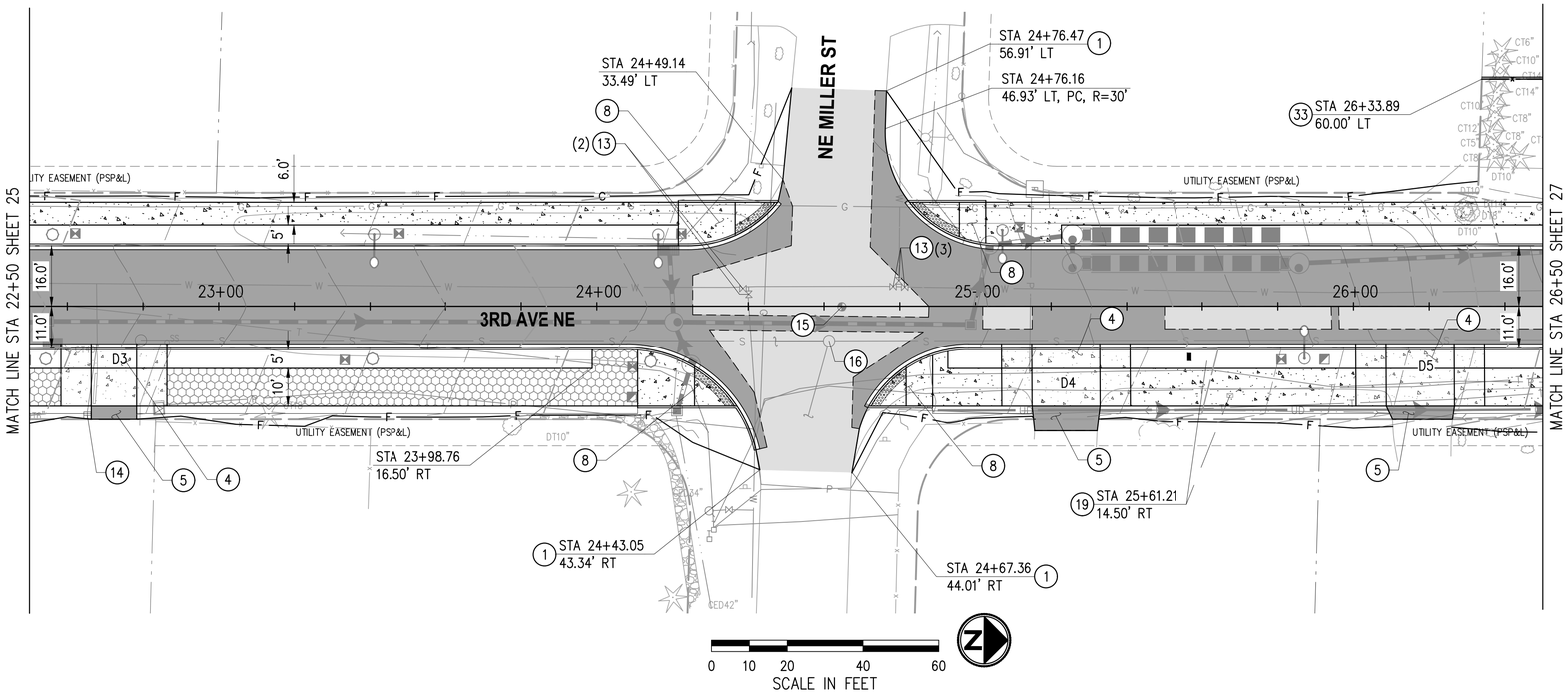
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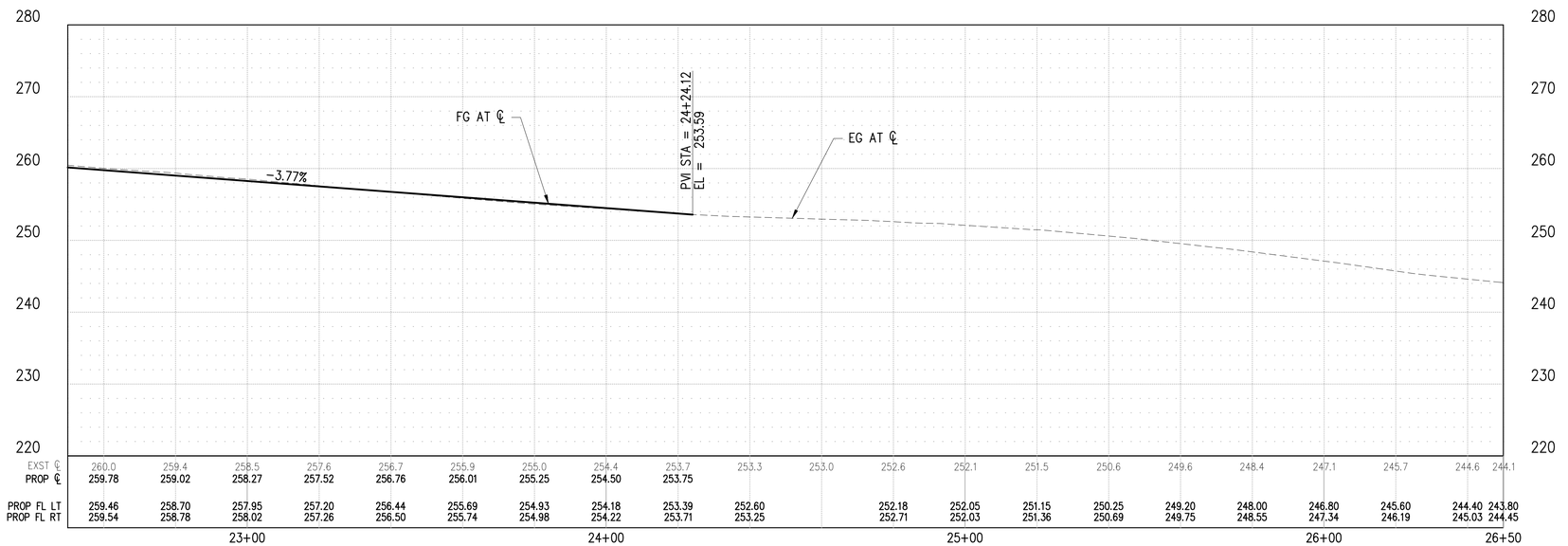
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GENERAL NOTES

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LEGEND

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CONSTRUCTION NOTES

(1) MATCH EXISTING.

(4) CONSTRUCT CEMENT CONC DRIVEWAY ENTRANCE PER DETAILS AND SCHEDULE, SHEET 9 AND DRIVEWAY PLAN & PROFILE, SHEETS 72–73.

(5) RECONSTRUCT DRIVEWAY PER SHEETS 9 AND 72–73.

(8) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A PER COD STD DETAIL 3–040–005 AND SHEETS 61–71.

(13) ADJUST WATER VALVE BOX TO GRADE.

(14) ADJUST WATER METER BOX TO GRADE.

(15) ADJUST MONUMENT CASE AND COVER TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

(19) RELOCATE MAILBOX PER COD STD DETAIL 3–050–012.

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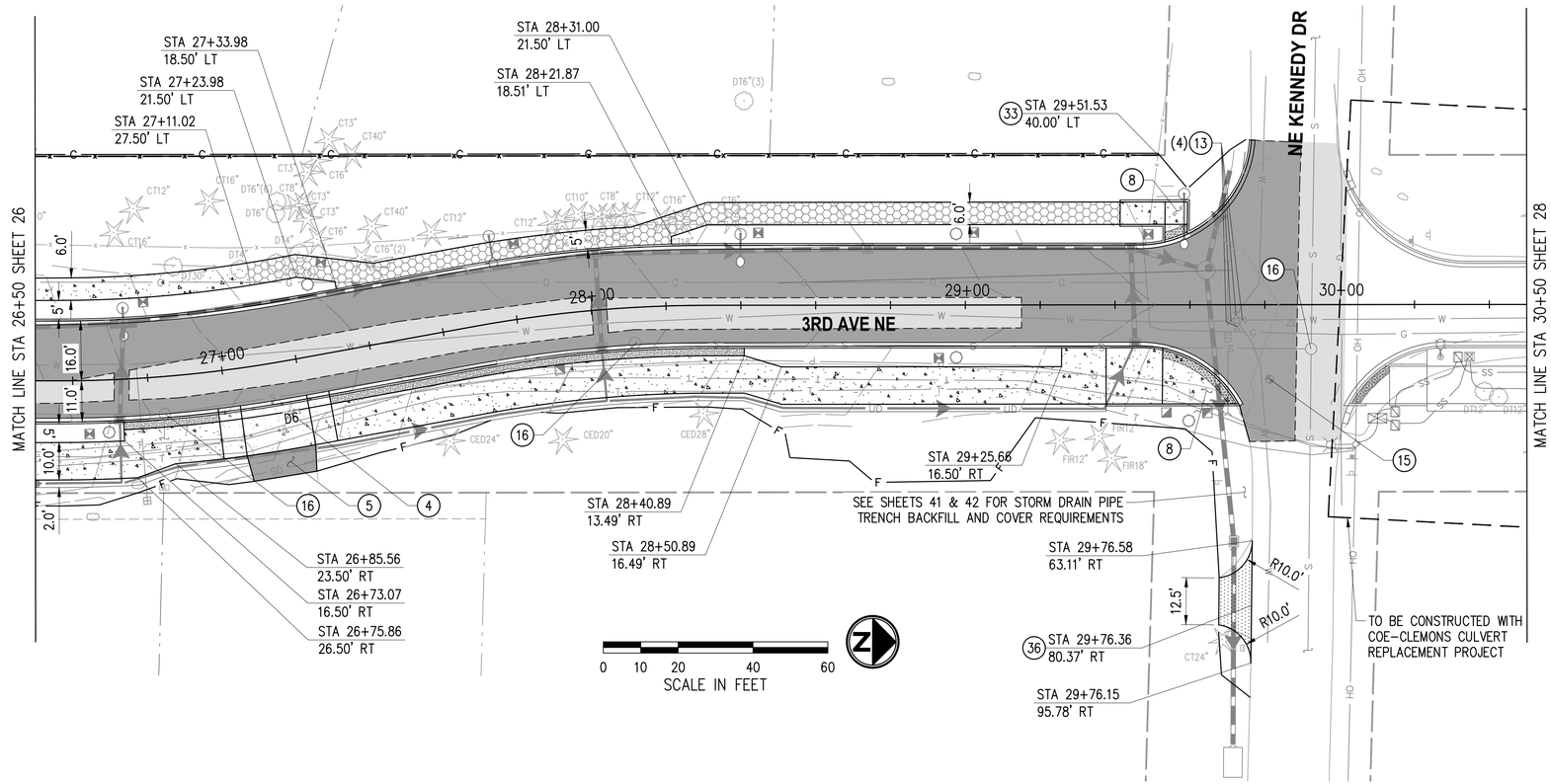
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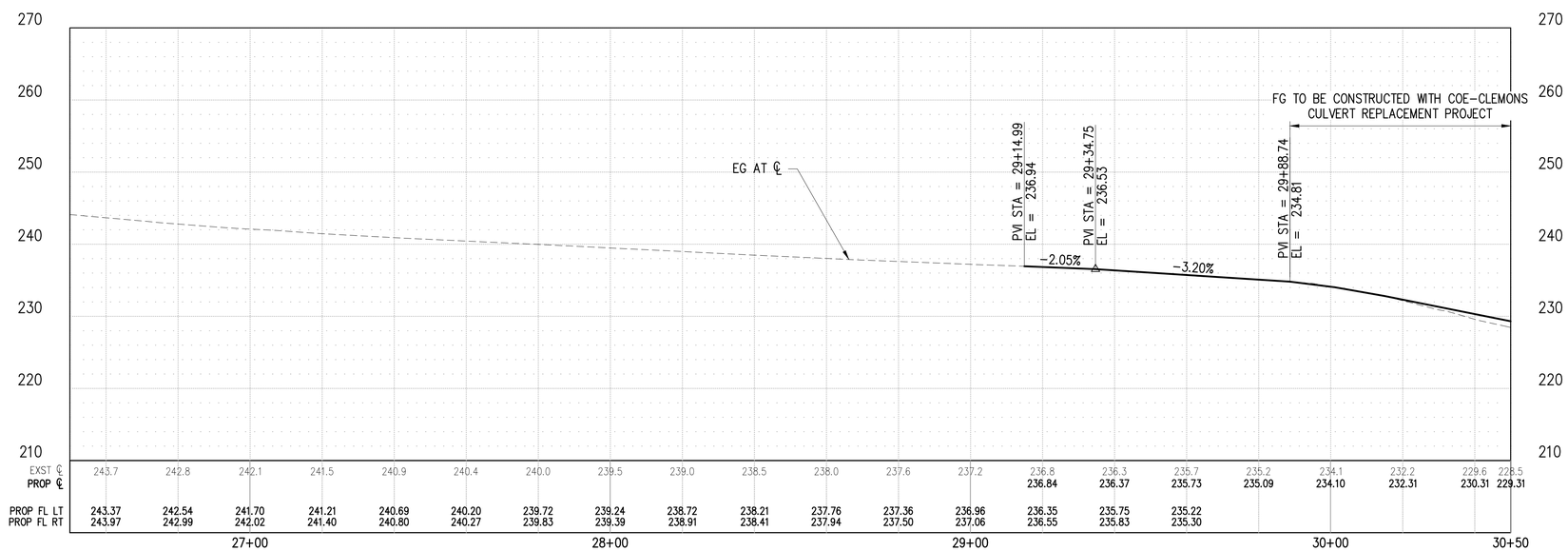
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(13) ADJUST WATER VALVE BOX TO GRADE.

(15) ADJUST MONUMENT CASE AND COVER TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

(33) INSTALL NEW WOOD FENCE PER DETAIL SHEET 10.

(36) CONSTRUCT GRAVEL DRIVEWAY ENTRANCE PLACE 3" CSTC TYPICAL DEPTH.

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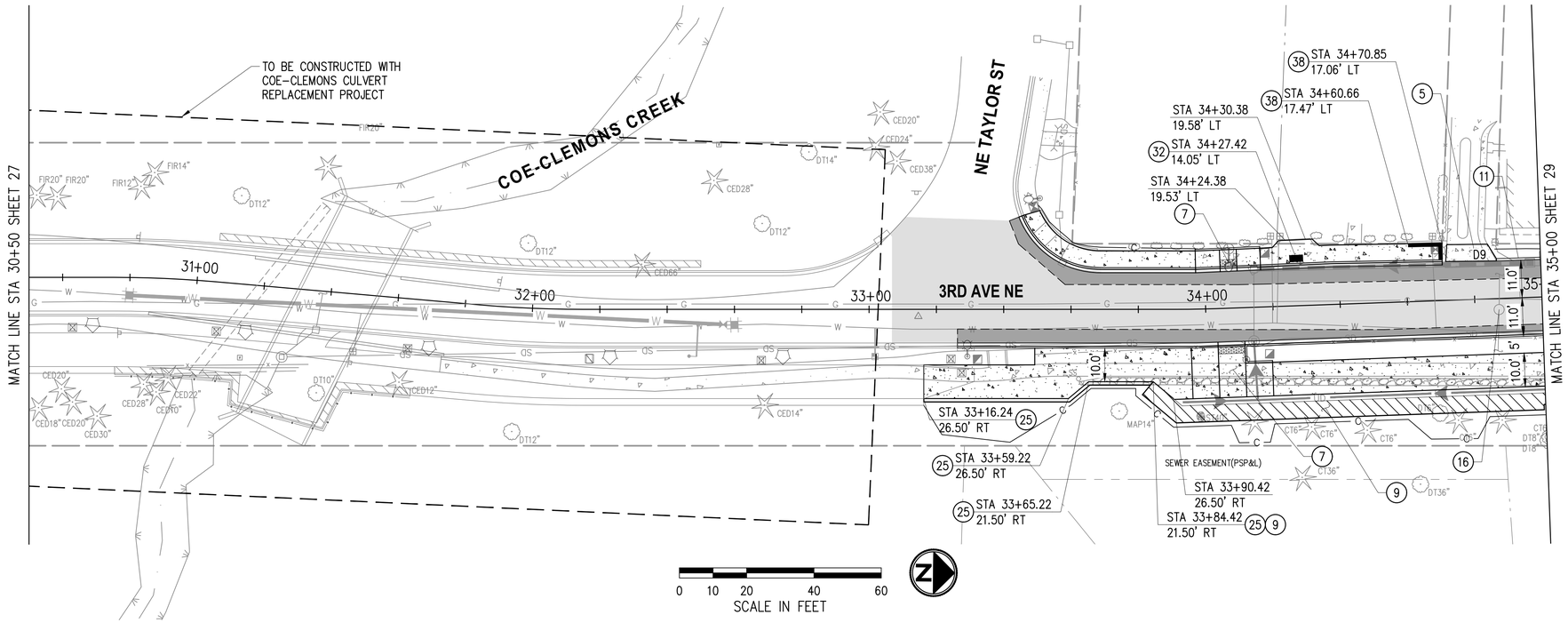
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

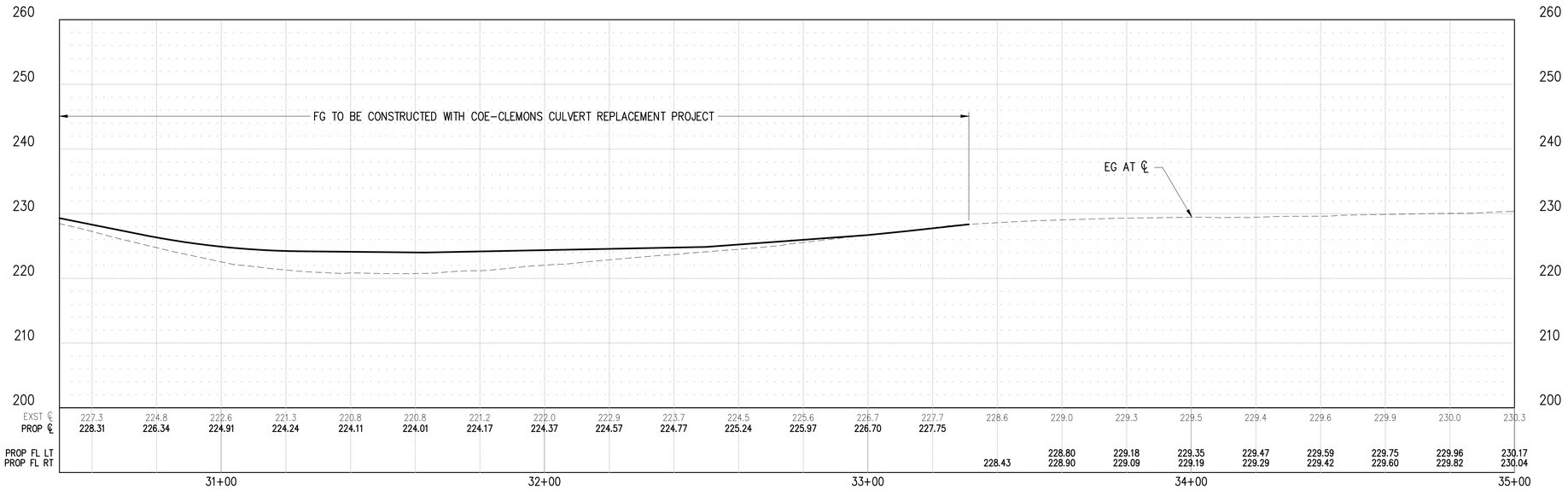
ROADWAY PLAN & PROFILE
STA 26+50 TO STA 30+50

KPG PROJECT No. 21078

SHT 27 OF 119

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GENERAL NOTES

1. CONSTRUCT CEMENT CONC CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION PLANS, SHEETS 11–17.
3. FOR STORMWATER PLAN & PROFILES AND DETAILS, SEE SHEETS 34–55.
4. FOR IRRIGATION AND LANDSCAPING PLANS AND DETAILS, SEE SHEETS 95–108.
5. FOR URBAN DESIGN PLANS AND DETAILS, SEE SHEET 87–94.
6. FOR ILLUMINATION PLANS AND DETAILS, SEE SHEETS 74–86.
7. FOR JUT PLANS AND DETAILS, SEE SHEETS 109–113.
8. FOR CHANNELIZATION & SIGNING PLANS AND DETAILS, SEE SHEETS 114–119.

LEGEND

- NEW HMA PAVEMENT SECTION, SEE SHEETS 5–8
- HMA CL 1/2" PG 58H–22 OVERLAY
- CEMENT CONC PAVEMENT
- RETAINING WALL
- —C— CUT EMBANKMENT LINE
- —F— FILL EMBANKMENT LINE
- THICKENED EDGE SIDEWALK

CONSTRUCTION NOTES

(5) RECONSTRUCT DRIVEWAY PER SHEETS 9 AND 72–73.

(6) CONSTRUCT CEMENT CONC CURB RAMP TYPE PERPENDICULAR A PER COD STD DETAIL 3–040–002 AND SHEETS 61–71.

(7) CONSTRUCT CEMENT CONC CURB RAMP TYPE PARALLEL A PER COD STD DETAIL 3–040–003 AND SHEETS 61–71.

(9) CONSTRUCT RETAINING WALL PER SHEETS 56–59.

(11) CONSTRUCT EXTRUDED CURB TYPE 5 PER WSDOT STD PLAN F–10.42–00.

(16) ADJUST SEWER MANHOLE TO GRADE.

(25) CEMENT CONC STEM WALL TYPE B PER DETAIL, SHEET 10.

(32) RELOCATE CLUSTER MAILBOX UNIT PER COD STD DETAIL 3–050–012.

(38) THICKENED EDGE SIDEWALK PER DETAIL, SHEET 9.

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

21078RDWY-PLN-02.dwg	
FILENAME	
JRW	01/2025
DESIGNED BY	DATE
KAB	01/2025
DRAWN BY	DATE
OBP	01/2025
CHECKED BY	DATE

OLIVIA B. PARASCHIV STATE OF WASHINGTON 41380 REGISTERED PROFESSIONAL ENGINEER

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206.286.1640
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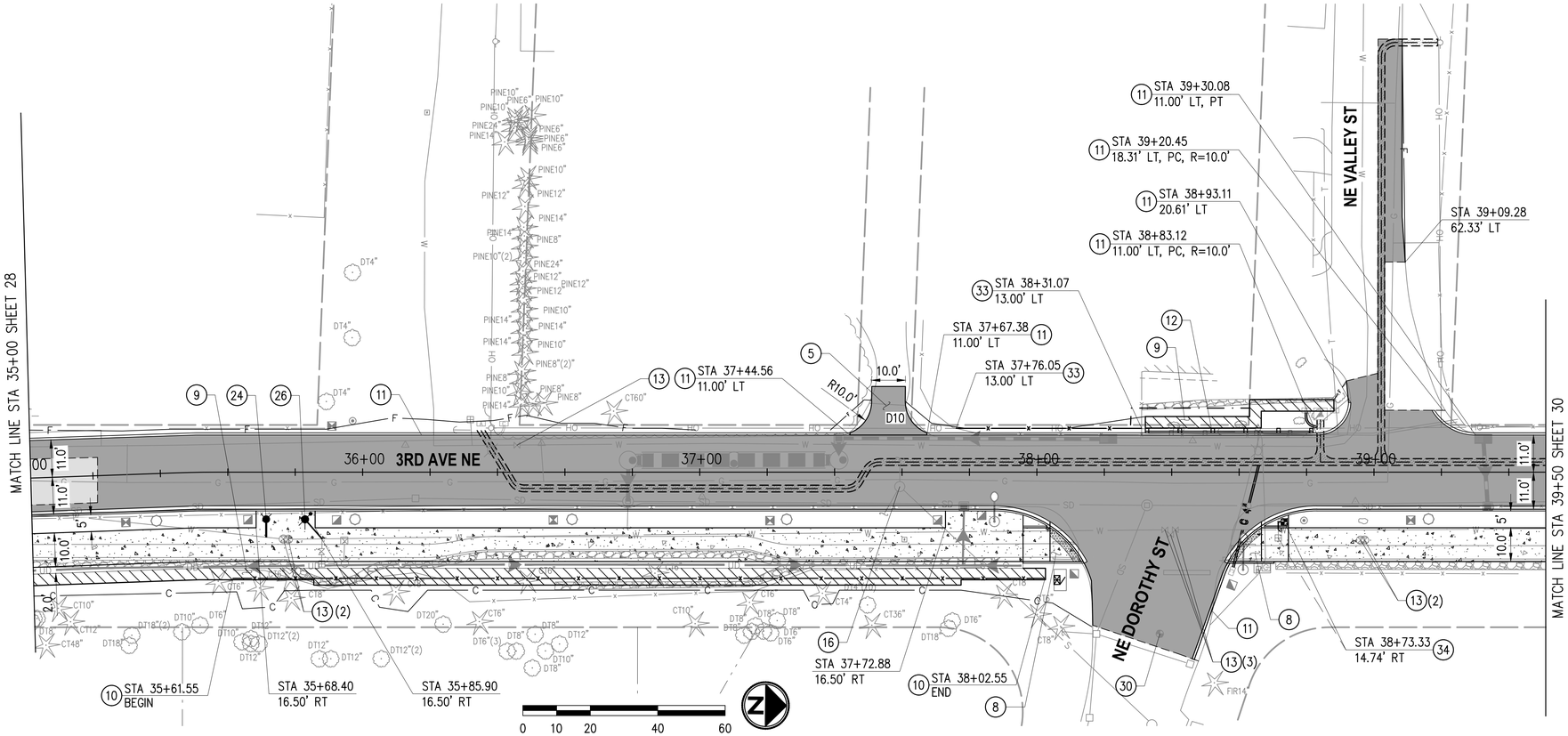
City of Duvall
Small Town. Real Life.

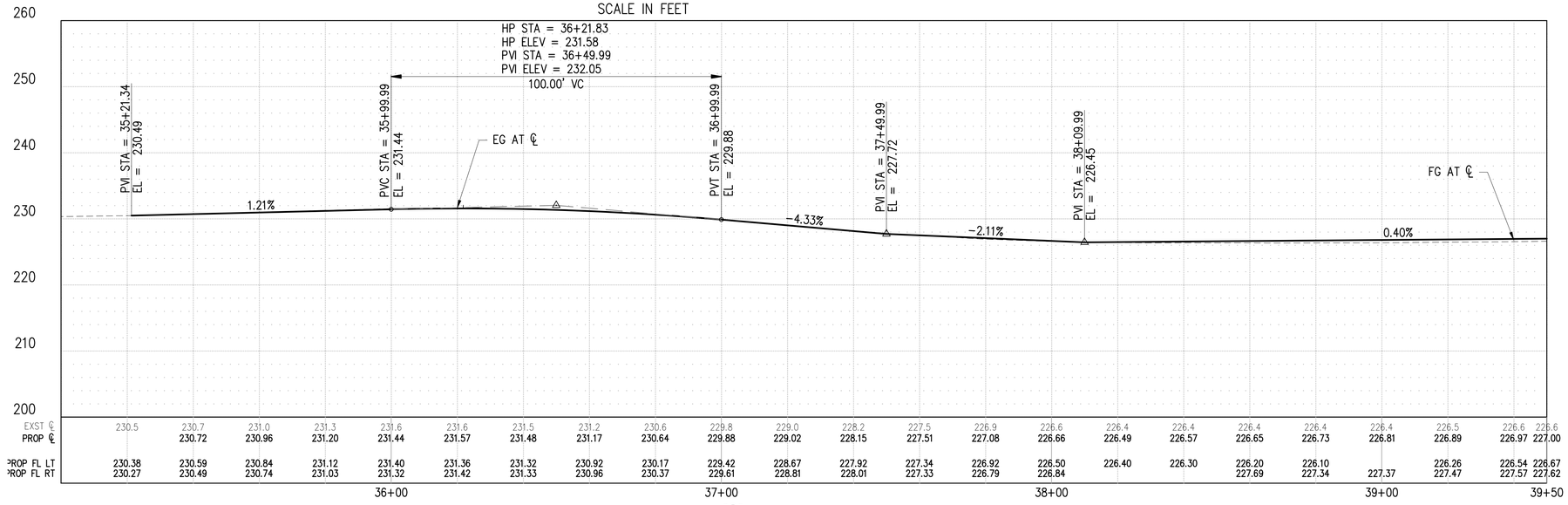
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ROADWAY PLAN & PROFILE
STA 30+50 TO STA 35+00

KPG PROJECT No. 21078 | SHT 28 OF 119

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EXST ℄	230.5																						
PROP ℄		230.7	231.0	231.3	231.6	231.6	231.5	231.2	230.6	229.8	229.0	228.2	227.5	226.9	226.6	226.4	226.4	226.4	226.4	226.4	226.5	226.6	226.6
		230.72	230.96	231.20	231.44	231.57	231.48	231.17	230.64	229.88	229.02	228.15	227.51	227.08	226.66	226.49	226.57	226.65	226.73	226.81	226.89	226.97	227.00
PROP FL LT	230.38	230.59	230.84	231.12	231.40	231.36	231.32	230.92	230.17	229.42	228.67	227.92	227.34	226.92	226.50	226.40	226.30	226.20	226.10		226.26	226.54	226.67
PROP FL RT	230.27	230.49	230.74	231.03	231.32	231.42	231.33	230.96	230.37	229.61	228.81	228.01	227.33	226.79	226.84			227.69	227.34	227.37	227.47	227.57	227.62

GENERAL NOTES

1. CONSTRUCT CEMENT CONC CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION PLANS, SHEETS 11–17.
3. FOR STORMWATER PLAN & PROFILES AND DETAILS, SEE SHEETS 34–55.
4. FOR IRRIGATION AND LANDSCAPING PLANS AND DETAILS, SEE SHEETS 95–108.
5. FOR URBAN DESIGN PLANS AND DETAILS, SEE SHEET 87–94.
6. FOR ILLUMINATION PLANS AND DETAILS, SEE SHEETS 74–86.
7. FOR JUT PLANS AND DETAILS, SEE SHEETS 109–113.
8. FOR CHANNELIZATION & SIGNING PLANS AND DETAILS, SEE SHEETS 114–119.

LEGEND

- NEW HMA PAVEMENT SECTION, SEE SHEETS 5–8
- HMA CL 1/2" PG 58H–22 OVERLAY
- CEMENT CONC PAVEMENT
- RETAINING WALL
- C — CUT EMBANKMENT LINE
- F — FILL EMBANKMENT LINE

CONSTRUCTION NOTES

(5) RECONSTRUCT DRIVEWAY PER SHEETS 9 AND 72–73.

(8) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A PER COD STD DETAIL 3–040–005 AND SHEETS 61–71.

(9) CONSTRUCT RETAINING WALL PER SHEETS 56–59.

(10) INSTALL 4' BLACK VINYL COATED CHAIN LINK FENCE PER DETAIL, SHEET 10.

(11) CONSTRUCT EXTRUDED CURB TYPE 5 PER WSDOT STD PLAN F–10.42–00.

(12) INSTALL STEEL BACKED TIMBER GUARDRAIL.

(13) ADJUST WATER VALVE BOX TO GRADE.

(14) ADJUST WATER METER BOX TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

(24) INSTALL FIRE HYDRANT ASSEMBLY PER COD STD DET 2–060–001.

(26) RELOCATE 2" AIR AND VACUUM RELEASE ASSEMBLY PER COD STD DET 2–070–003.

(30) REESTABLISH SURVEY MONUMENT WITH CASE AND COVER PER COD STD DETAIL 3–050–014.

(33) INSTALL NEW WOOD FENCE PER DETAIL SHEET 10.

(34) RELOCATE WATER SERVICE.

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

21078RDWY-PLN-02.dwg	
FILENAME	
JRW	01/2025
DESIGNED BY	DATE
KAB	01/2025
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OBP	01/2025
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OLIVIA B. PARASCHIN — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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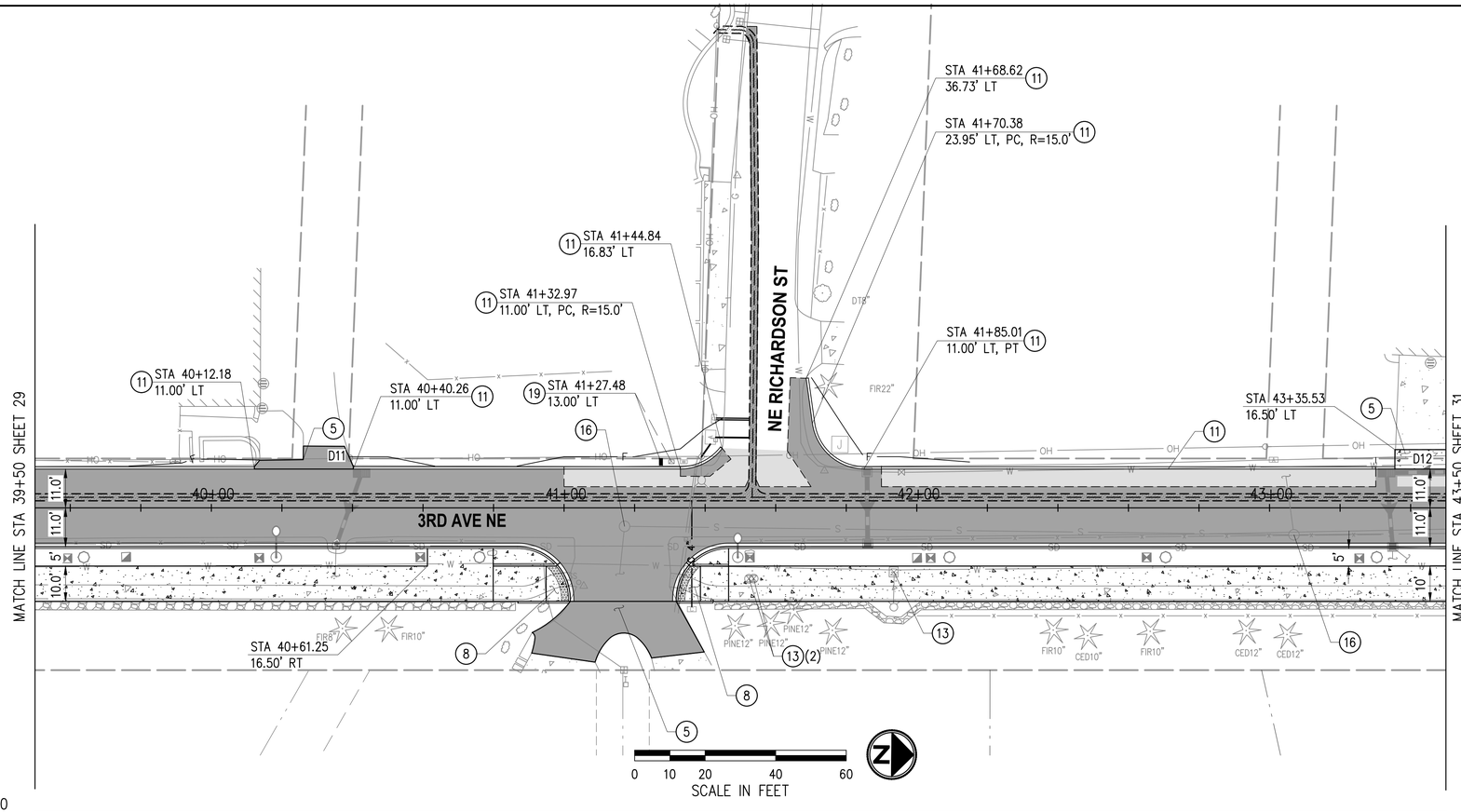
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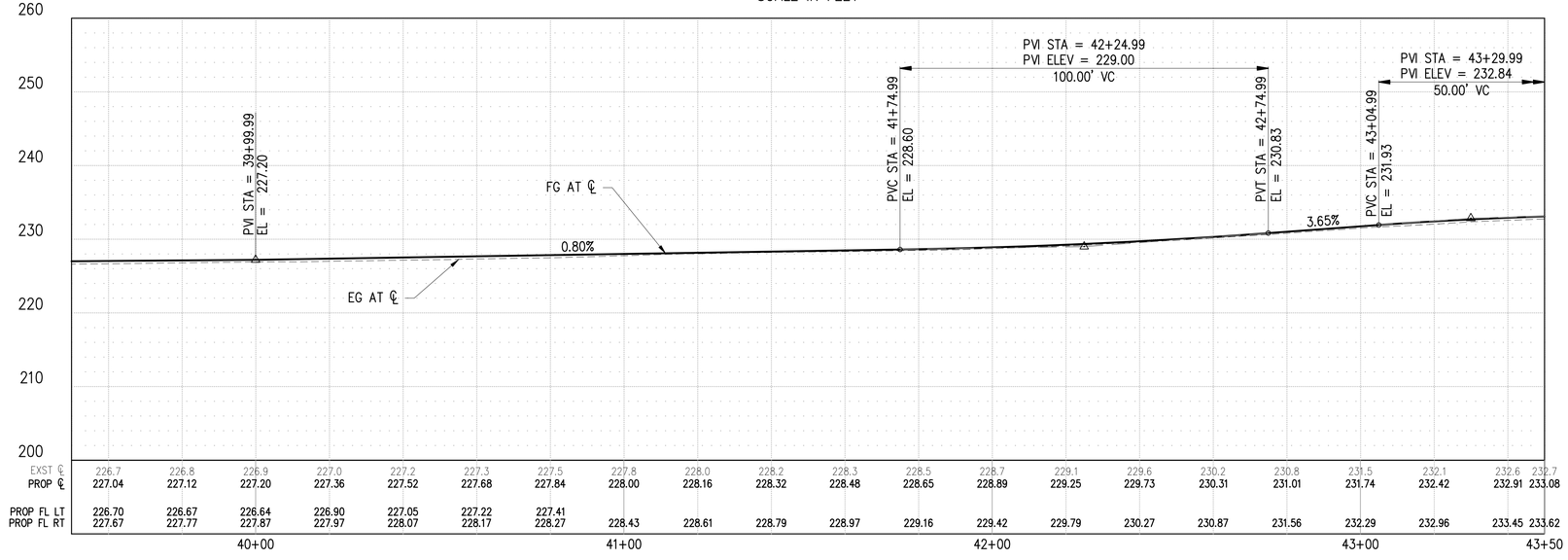
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ROADWAY PLAN & PROFILE
STA 35+00 TO STA 39+50

KPG PROJECT No. 21078 | SHT 29 OF 119

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EXST ℄	226.7	226.8	226.9	227.0	227.2	227.3	227.5	227.8	228.0	228.2	228.3	228.5	228.7	229.1	229.6	230.2	230.8	231.5	232.1	232.6	232.7
PROP ℄	227.04	227.12	227.20	227.36	227.52	227.68	227.84	228.00	228.16	228.32	228.48	228.65	228.89	229.25	229.73	230.31	231.01	231.74	232.42	232.91	233.08
PROP FL LT	226.70	226.67	226.64	226.90	227.05	227.22	227.41														
PROP FL RT	227.67	227.77	227.87	227.97	228.07	228.17	228.27	228.43	228.61	228.79	228.97	229.16	229.42	229.79	230.27	230.87	231.56	232.29	232.96	233.45	233.62
			40+00					41+00					42+00					43+00			43+50

GENERAL NOTES

1. CONSTRUCT CEMENT CONC CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION PLANS, SHEETS 11–17.
3. FOR STORMWATER PLAN & PROFILES AND DETAILS, SEE SHEETS 34–55.
4. FOR IRRIGATION AND LANDSCAPING PLANS AND DETAILS, SEE SHEETS 95–108.
5. FOR URBAN DESIGN PLANS AND DETAILS, SEE SHEET 87–94.
6. FOR ILLUMINATION PLANS AND DETAILS, SEE SHEETS 74–86.
7. FOR JUT PLANS AND DETAILS, SEE SHEETS 109–113.
8. FOR CHANNELIZATION & SIGNING PLANS AND DETAILS, SEE SHEETS 114–119.

LEGEND

- NEW HMA PAVEMENT SECTION, SEE SHEETS 5–8
- HMA CL 1/2" PG 58H–22 OVERLAY
- CEMENT CONC PAVEMENT
- C — CUT EMBANKMENT LINE
- F — FILL EMBANKMENT LINE

CONSTRUCTION NOTES

(5) RECONSTRUCT DRIVEWAY PER SHEETS 9 AND 72–73.

(8) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A PER COD STD DETAIL 3–040–005 AND SHEETS 61–71.

(11) CONSTRUCT EXTRUDED CURB TYPE 5 PER WSDOT STD PLAN F–10.42–00.

(13) ADJUST WATER VALVE BOX TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

(19) RELOCATE MAILBOX PER COD STD DETAIL 3–050–012.

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

21078RDWY-PLN-02.dwg	
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DESIGNED BY	DATE
KAB	01/2025
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OBP	01/2025
CHECKED BY	DATE

OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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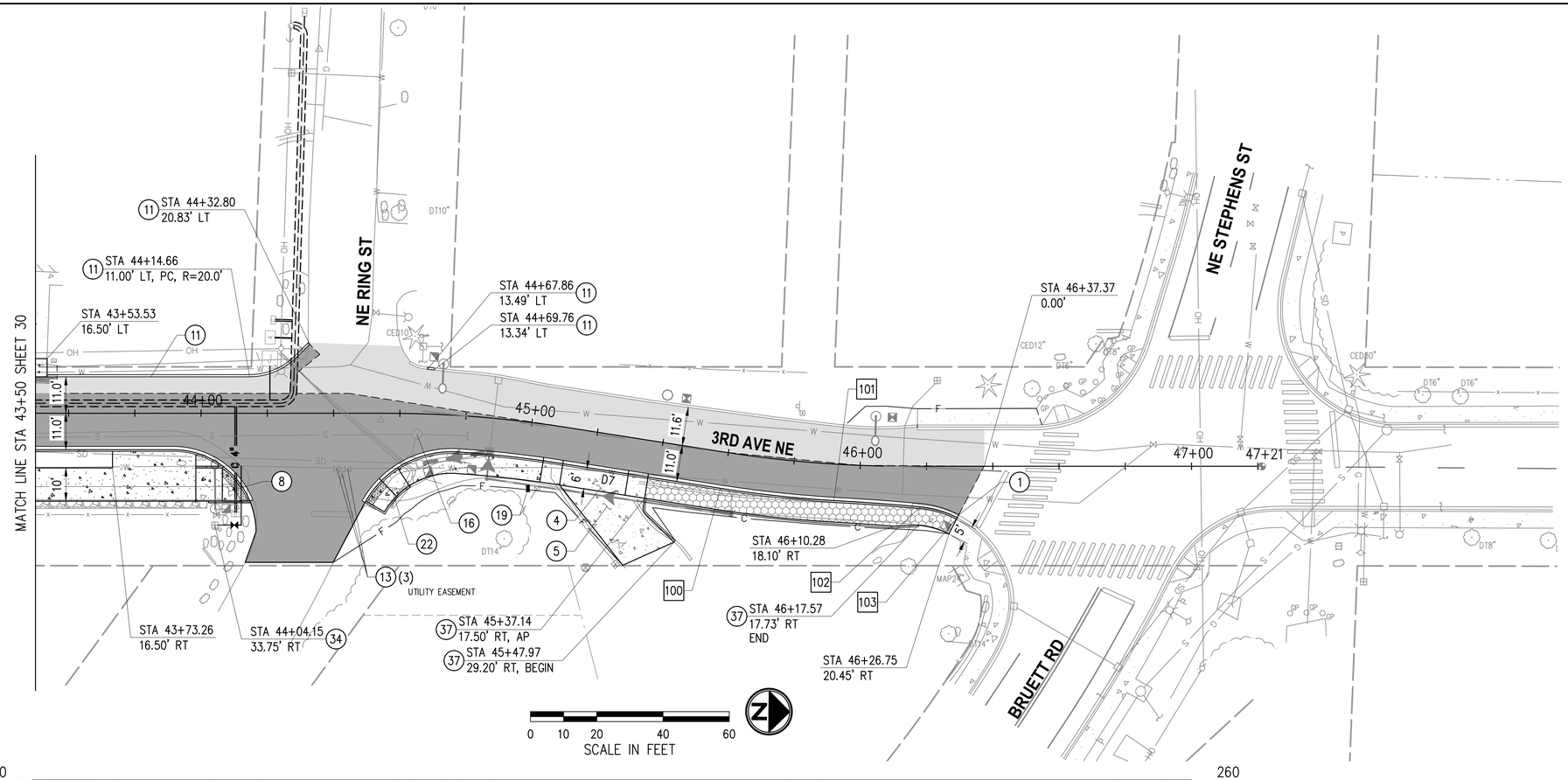
City of Duvall
Small Town. Real Life.

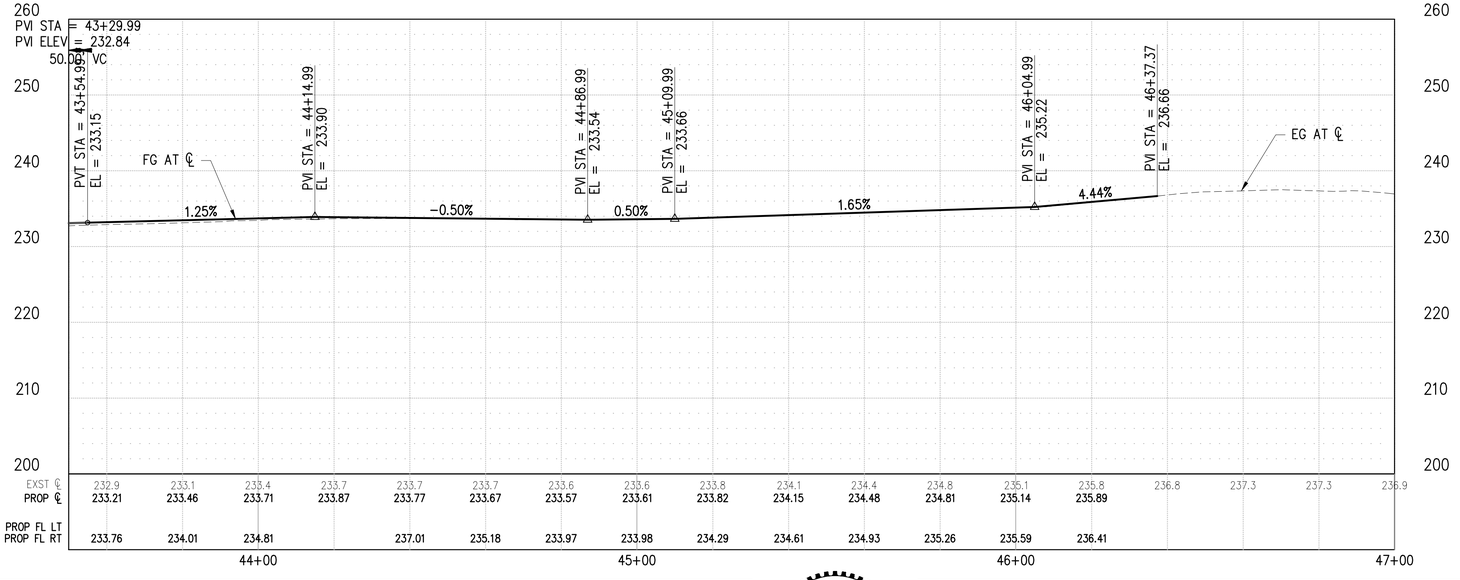
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ROADWAY PLAN & PROFILE
STA 39+50 TO STA 43+50

KPG PROJECT No. 21078 | SHT 30 OF 119

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GENERAL NOTES

1. CONSTRUCT CEMENT CONC CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION PLANS, SHEETS 11–17.
3. FOR STORMWATER PLAN & PROFILES AND DETAILS, SEE SHEETS 34–55.
4. FOR IRRIGATION AND LANDSCAPING PLANS AND DETAILS, SEE SHEETS 95–108.
5. FOR URBAN DESIGN PLANS AND DETAILS, SEE SHEET 87–94.
6. FOR ILLUMINATION PLANS AND DETAILS, SEE SHEETS 74–86.
7. FOR JUT PLANS AND DETAILS, SEE SHEETS 109–113.
8. FOR CHANNELIZATION & SIGNING PLANS AND DETAILS, SEE SHEETS 114–119.

LEGEND

- NEW HMA PAVEMENT SECTION, SEE SHEETS 5–8
- HMA CL 1/2" PG 58H–22 OVERLAY
- CEMENT CONC PAVEMENT
- PERVIOUS CONC SIDEWALK
- C — CUT EMBANKMENT LINE
- F — FILL EMBANKMENT LINE

CONSTRUCTION NOTES

(1) MATCH EXISTING.

(4) CONSTRUCT CEMENT CONC DRIVEWAY ENTRANCE PER DETAILS AND SCHEDULE, SHEET 9 AND DRIVEWAY PLAN & PROFILE, SHEETS 72–73.

(5) RECONSTRUCT DRIVEWAY PER SHEETS 9 AND 72–73.

(8) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A PER COD STD DETAIL 3–040–005 AND SHEETS 61–71.

(11) CONSTRUCT EXTRUDED CURB TYPE 5 PER WSDOT STD PLAN F–10.42–00.

(13) ADJUST WATER VALVE BOX TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

(19) RELOCATE MAILBOX PER COD STD DETAIL 3–050–012.

(22) CONSTRUCT CEMENT CONC CURB RAMP TYPE PARALLEL B PER COD STD DETAIL 3–040–003 AND SHEETS 61–71.

(34) RELOCATE WATER SERVICE.

(37) CEMENT CONC STEM WALL PER DETAIL, SHEET 9.

CURB LAYOUT POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
100	45+59.30	11.00' RT	234.91	PC, R=361'
101	45+92.69	11.00' RT	235.46	PRC, R=667.5'
102	46+18.19	12.26' RT	236.30	PCC, R=30'
103	46+29.28	15.53' RT	237.39	MATCH

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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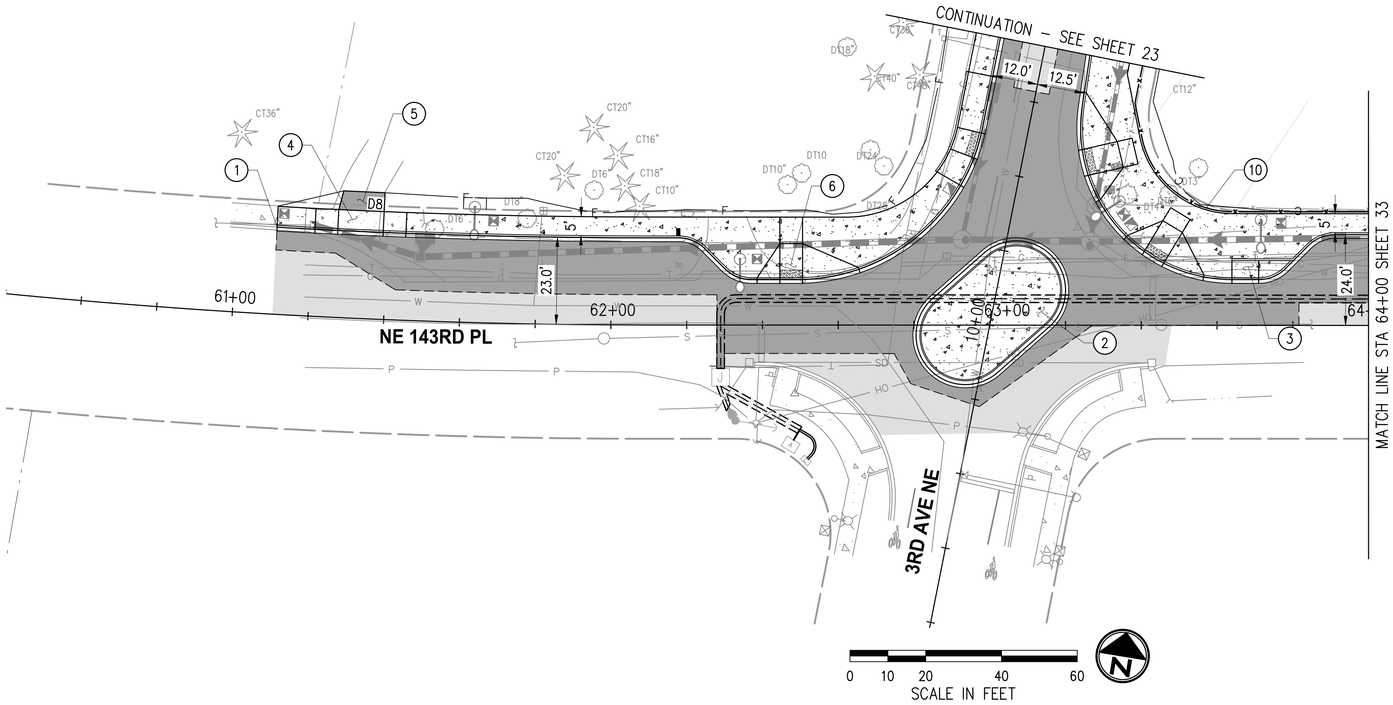
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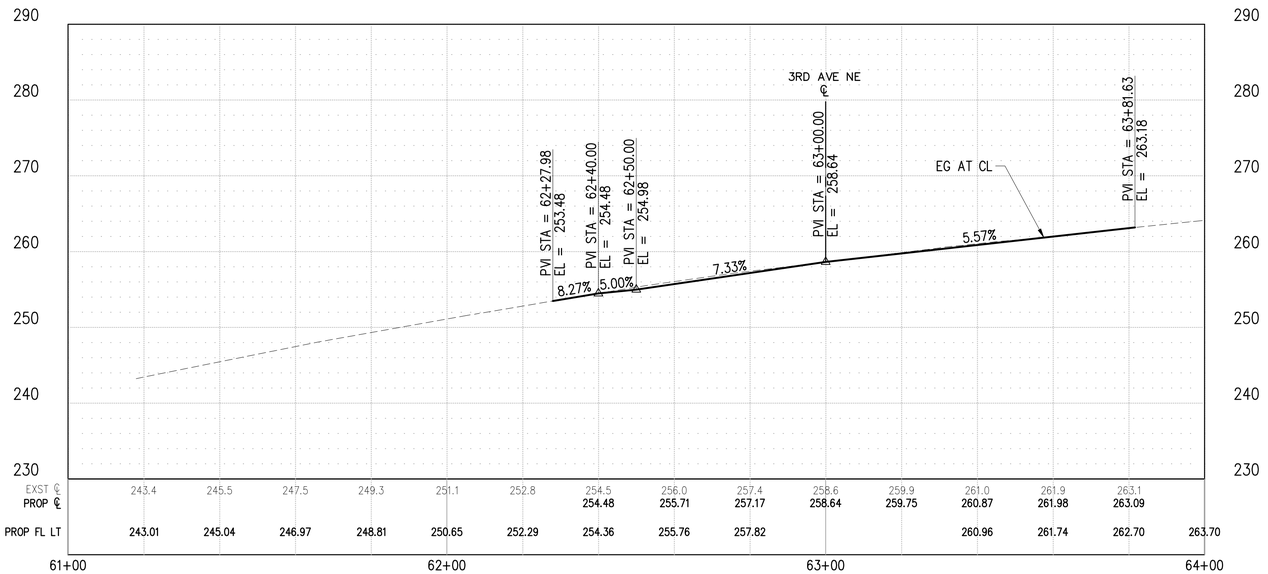
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ROADWAY PLAN & PROFILE
STA 43+50 TO STA 47+00

KPG PROJECT No. 21078 | SHT 31 OF 119

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GENERAL NOTES

1. CONSTRUCT CEMENT CONC CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION PLANS, SHEETS 11–17.
3. FOR STORMWATER PLAN & PROFILES AND DETAILS, SEE SHEETS 34–55.
4. FOR IRRIGATION AND LANDSCAPING PLANS AND DETAILS, SEE SHEETS 95–108.
5. FOR URBAN DESIGN PLANS AND DETAILS, SEE SHEET 87–94.
6. FOR ILLUMINATION PLANS AND DETAILS, SEE SHEETS 74–86.
7. FOR JUT PLANS AND DETAILS, SEE SHEETS 109–113.
8. FOR CHANNELIZATION & SIGNING PLANS AND DETAILS, SEE SHEETS 114–119.

LEGEND

- NEW HMA PAVEMENT SECTION, SEE SHEETS 5–8
- HMA CL 1/2" PG 58H–22 OVERLAY
- CEMENT CONC PAVEMENT
- C — CUT EMBANKMENT LINE
- F — FILL EMBANKMENT LINE

CONSTRUCTION NOTES

(1) MATCH EXISTING.

(2) CONSTRUCT MOUNTABLE MINI ROUNDABOUT. SEE DETAIL SHEET 60.

(3) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A (FOR BIKES), SEE SHEET 62.

(4) CONSTRUCT CEMENT CONC DRIVEWAY ENTRANCE PER DETAILS AND SCHEDULE, SHEET 9 AND DRIVEWAY PLAN & PROFILE, SHEETS 72–73.

(5) RECONSTRUCT DRIVEWAY PER SHEETS 9 AND 72–73.

(6) CONSTRUCT CEMENT CONC CURB RAMP TYPE PERPENDICULAR A PER COD STD DETAIL 3–040–002 AND SHEETS 61–71.

(10) INSTALL 4' BLACK VINYL COATED CHAIN LINK FENCE PER DETAIL, SHEET 10.

–

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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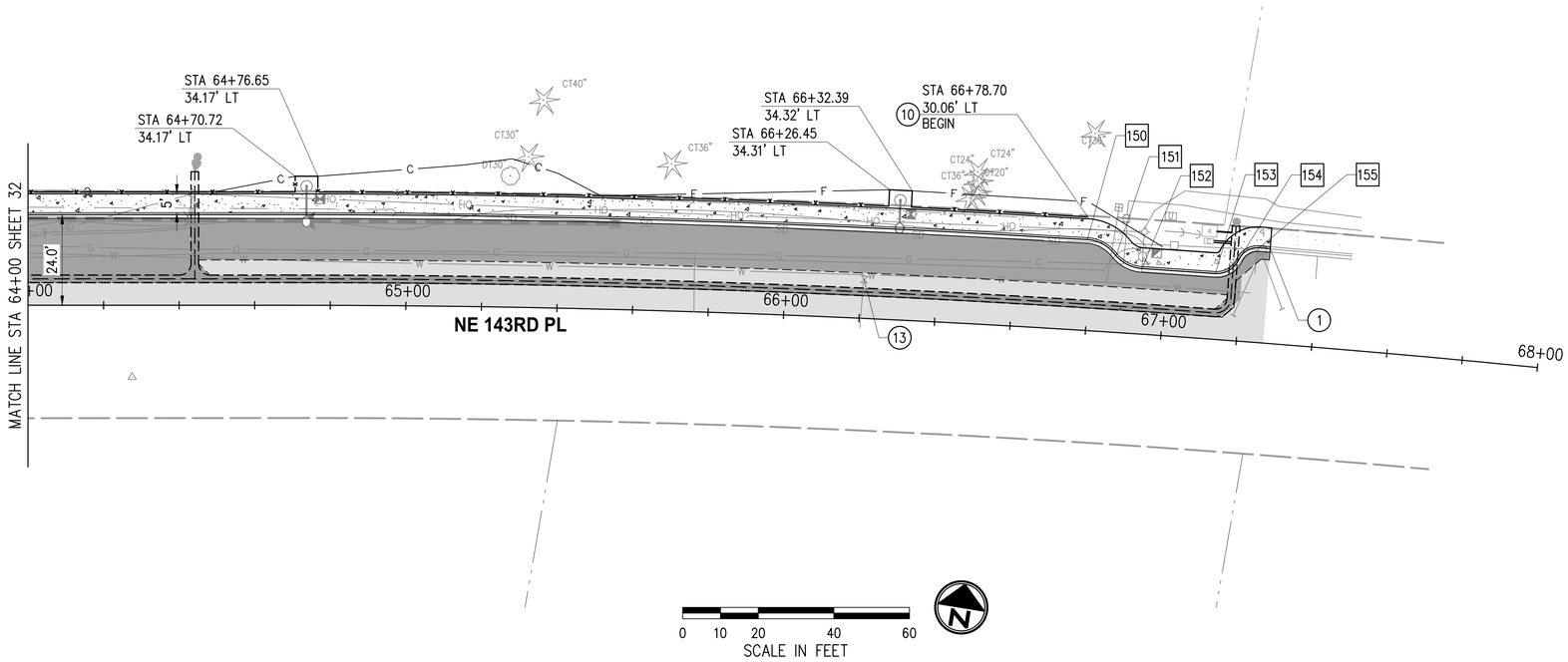
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ROADWAY PLAN & PROFILE
STA 60+50 TO STA 64+00

KPG PROJECT No. 21078 | SHT 32 OF 119

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GENERAL NOTES

1. CONSTRUCT CEMENT CONC CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION PLANS, SHEETS 11–17.
3. FOR STORMWATER PLAN & PROFILES AND DETAILS, SEE SHEETS 34–55.
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LEGEND

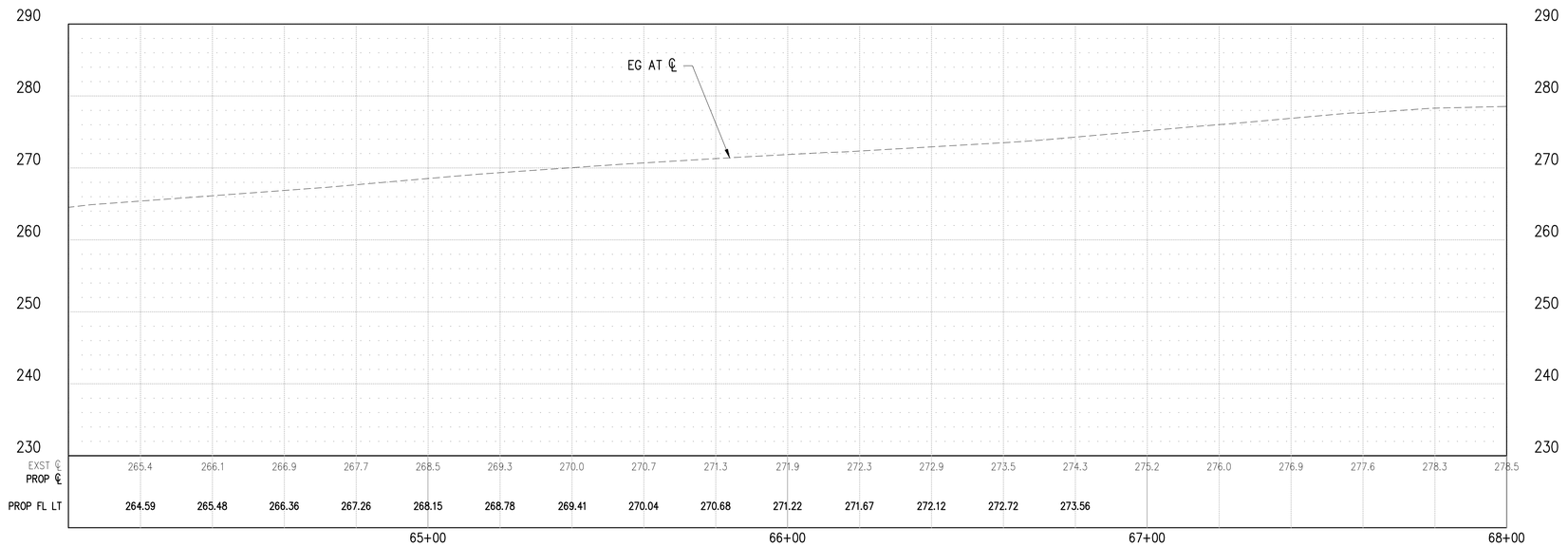
- NEW HMA PAVEMENT SECTION, SEE SHEETS 5–8
- HMA CL 1/2" PG 58H–22 OVERLAY
- CEMENT CONC PAVEMENT
- C — CUT EMBANKMENT LINE
- F — FILL EMBANKMENT LINE

CONSTRUCTION NOTES

(1) MATCH EXISTING.

(10) INSTALL 4' BLACK VINYL COATED CHAIN LINK FENCE PER DETAIL, SHEET 10.

(13) ADJUST WATER VALVE BOX TO GRADE.



CURB LAYOUT POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
150	66+79.00	24.06' LT	273.54	PC, R=10'
151	66+86.77	20.29' LT	273.89	PRC, R=10'
152	66+93.80	17.35' LT	274.22	PT
153	67+13.15	17.41' LT	MATCH EX	PC, R=6.5'
154	67+19.08	21.56' LT	MATCH EX	PRC, R=5.5'
155	67+24.17	25.08' LT	MATCH EX	PT

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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OBP	01/2025
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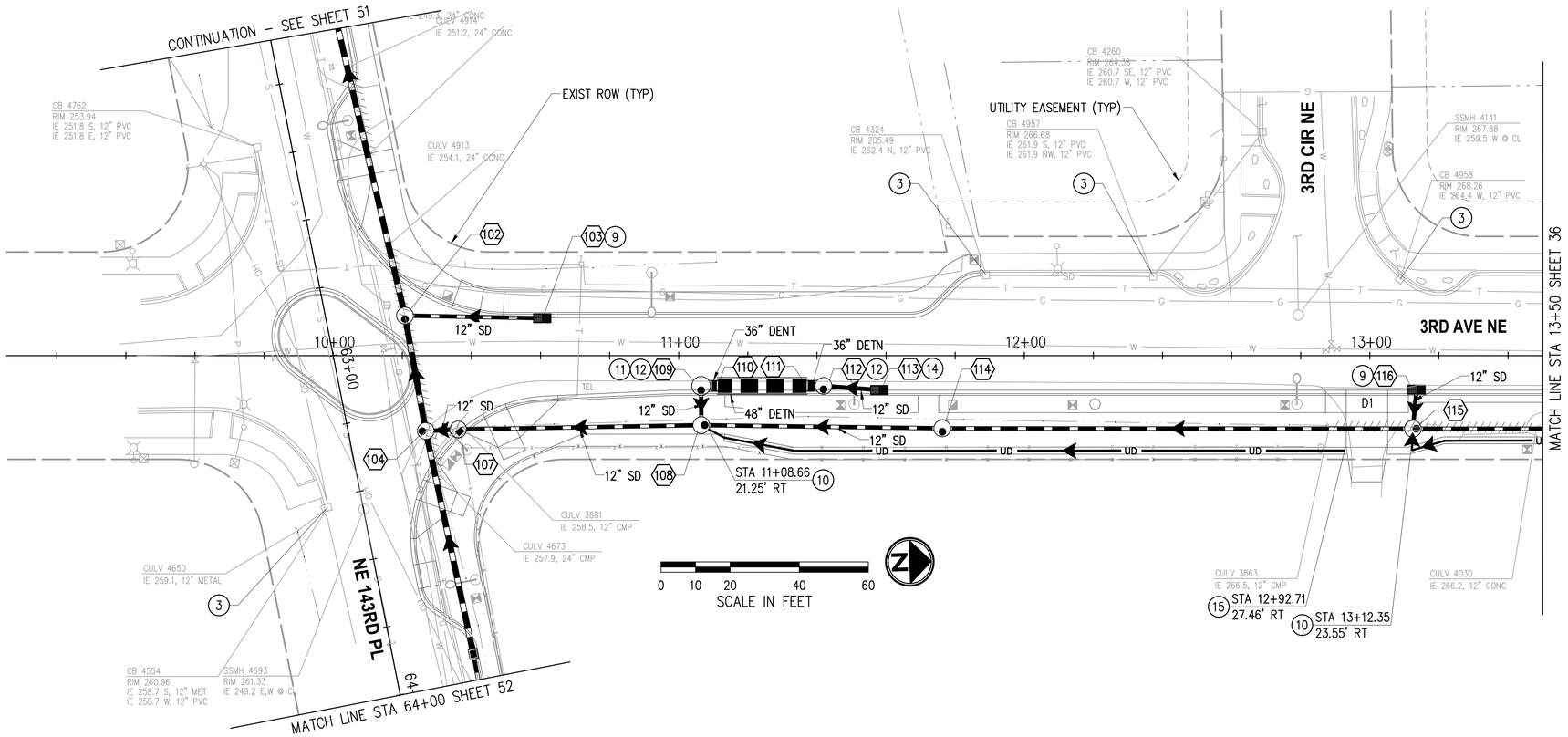
City of Duvall
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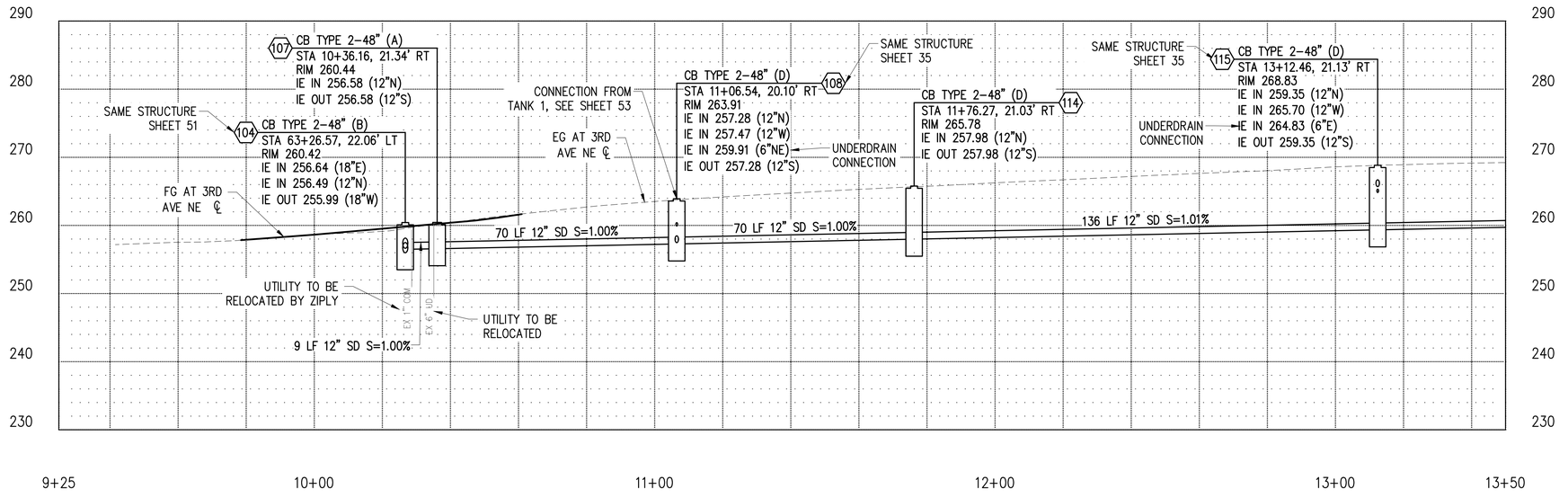
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ROADWAY PLAN & PROFILE
STA 64+00 TO STA 68+00

KPG PROJECT No. 21078 | SHT 33 OF 119

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3–020–003
   b. TYPEL 1L PER COD STD DETAIL 3–020–004
   c. TYPE 2 PER COD STD DETAIL 3–020–005
   d. CONCRETE INLET PER COD STD DETAIL 3–020–012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5–010–007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

CONSTRUCTION NOTES

(3) ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE.

(9) INSTALL CONCRETE CATCHBASIN STORMFILTER WATER QUALITY UNIT. SEE DETAIL, SHEET 54. OUTLET PIPE MUST EXIT AT 90° ANGLE.

(10) BEGIN SIDEWALK FRENCH DRAIN.

(11) INSTALL DETENTION FACILITY OUTLET STRUCTURE. SEE DETAIL, SHEET 53.

(12) INSTALL CONFINED SPACE WARNING SIGN BENEATH ACCESS COVER.

(14) INSTALL STEEL CATCHBASIN STORMFILTER SINGLE–UNIT WATER QUALITY UNIT. SEE DETAIL, SHEET 54.

(15) END SIDEWALK FRENCH DRAIN.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3–020–018 AND 3–02–014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3–020–022 AND 3–020–023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3–020–015 AND 3–02–014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B–30.50–03 AND COD STD DETAIL 3–02–014.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1/1L
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- (##) STORM DRAINAGE STRUCTURE ID NUMBER
- STORMFILTER WATER QUALITY UNIT
- UD UNDERDRAIN PIPE

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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MMM	01/2025
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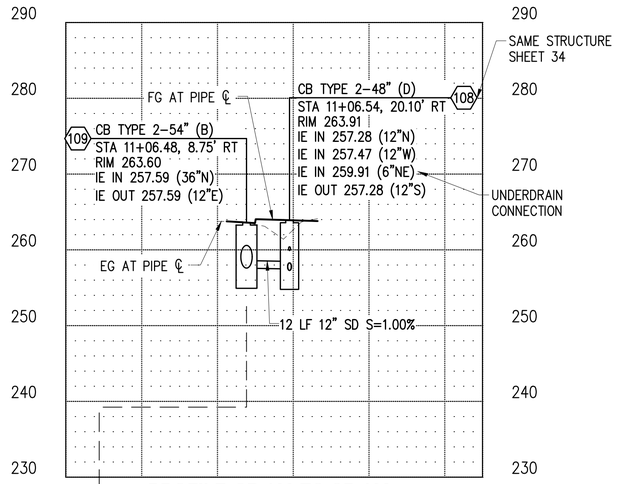
City of Duvall
Small Town. Real Life.

CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

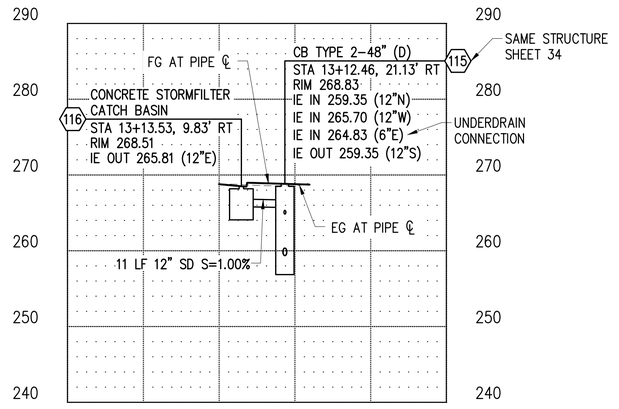
STORMWATER PLAN & PROFILE
STA 9+25 TO STA 13+50

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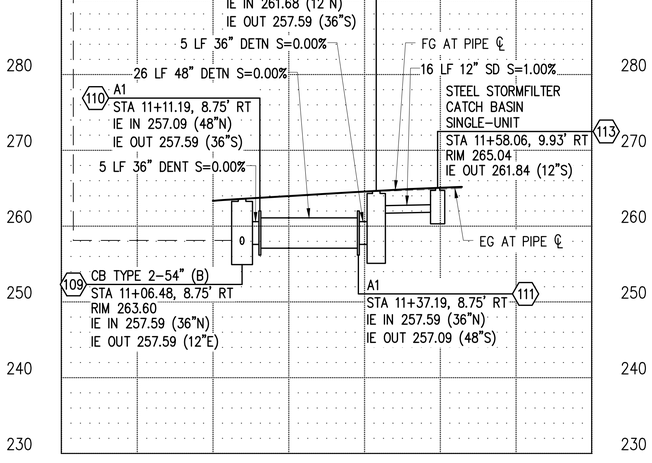
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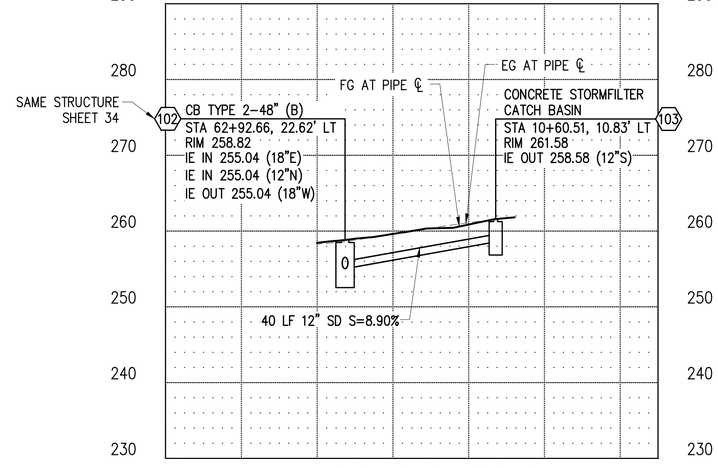
PROFILE CB 109 TO CB 108
HOR: 1"=20' VER: 1"=10'



PROFILE CB 116 TO CB 115
HOR: 1"=20' VER: 1"=10'



PROFILE CB 113 TO CB 109
HOR: 1"=20' VER: 1"=10'



PROFILE CB 103 TO CB 102
HOR: 1"=20' VER: 1"=10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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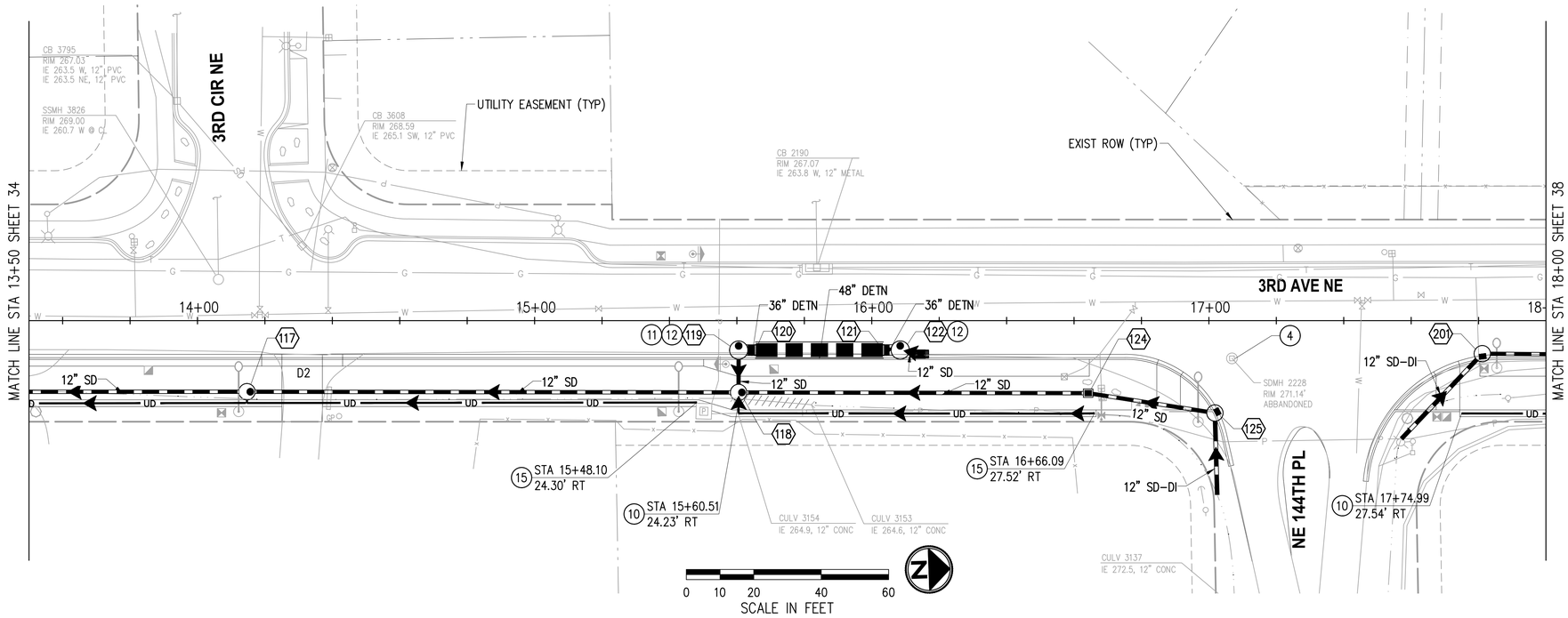
City of Duvall
Small Town. Real Life.

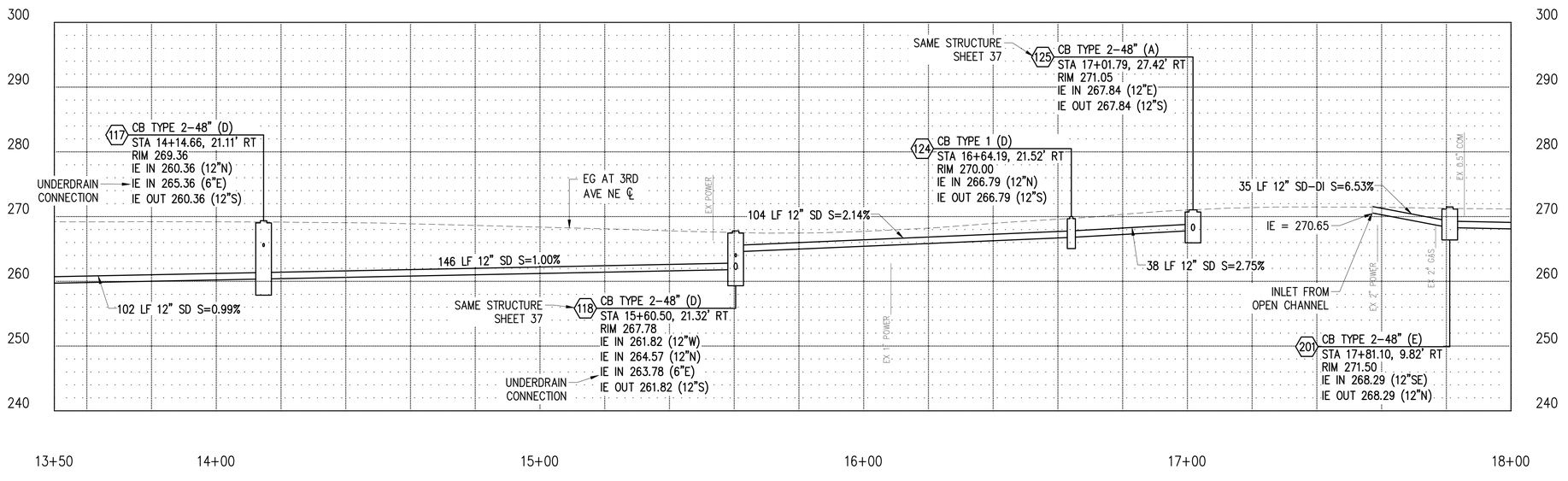
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
DRAINAGE CROSSINGS STA 9+25 TO STA 13+50

KPG PROJECT No. 21078 | SHT 35 OF 119

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

CONSTRUCTION NOTES

(4) REMOVE OR ABANDON EXISTING DRAINAGE STRUCTURE.

(7) INSTALL BEVELED END PIPE SECTION PER COD STD DETAIL 3-020-001 AND DEBRIS BARRIER. SEE DETAIL, SHEET 53.

(10) BEGIN SIDEWALK FRENCH DRAIN.

(11) INSTALL DETENTION FACILITY OUTLET STRUCTURE. SEE DETAIL, SHEET 53.

(12) INSTALL CONFINED SPACE WARNING SIGN BENEATH ACCESS COVER.

(14) INSTALL STEEL CATCHBASIN STORMFILTER SINGLE-UNIT WATER QUALITY UNIT. SEE DETAIL, SHEET 54.

(15) END SIDEWALK FRENCH DRAIN.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1/1L
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- (#) STORM DRAINAGE STRUCTURE ID NUMBER
- STORMFILTER WATER QUALITY UNIT
- UD UNDERDRAIN PIPE

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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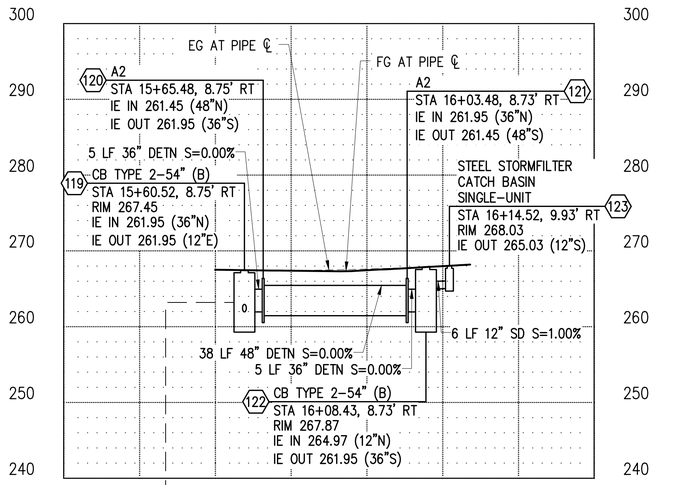
City of Duvall
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

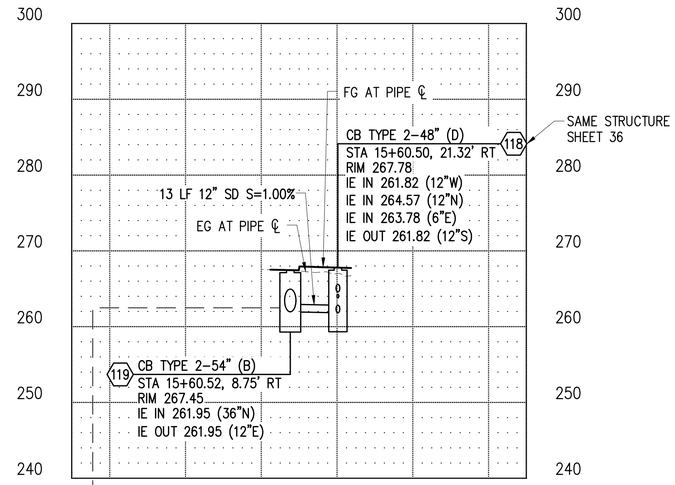
STORMWATER PLAN & PROFILE
STA 13+50 TO STA 18+00

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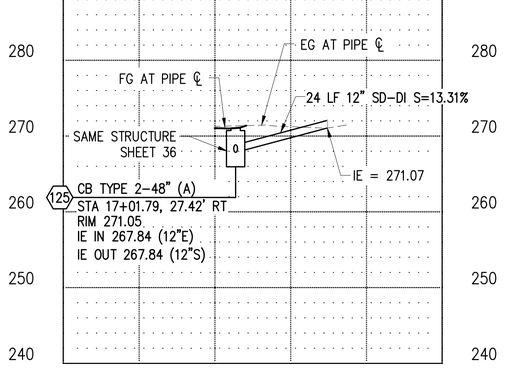


PROFILE CB 123 TO CB 119
HOR: 1"=20' VER: 1"=10'



PROFILE CB 119 TO CB 118
HOR: 1"=20' VER: 1"=10'

SAME STRUCTURE



PROFILE INLET TO CB 125
HOR: 1"=20' VER: 1"=10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

NO.	DATE	BY	APPR.	REVISIONS

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ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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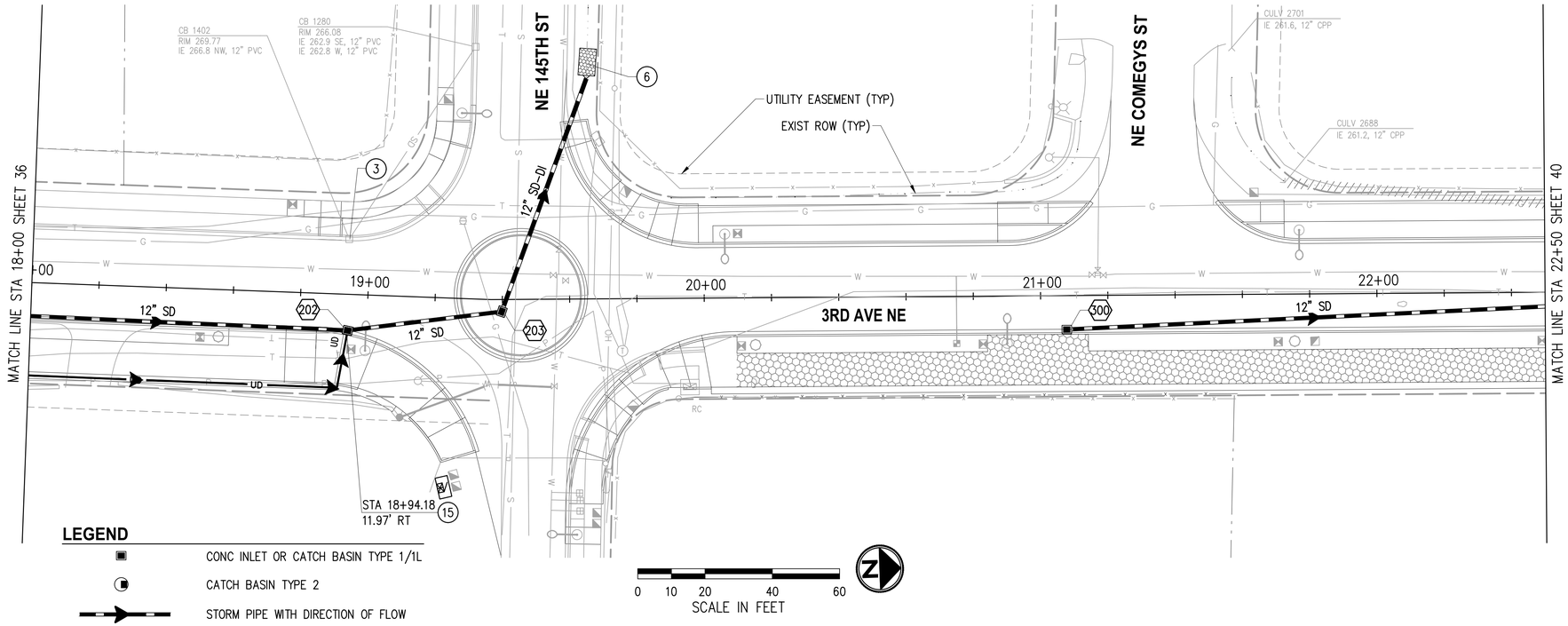
City of Duvall
Small Town. Real Life.

CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
DRAINAGE CROSSING STA 13+50 TO STA 18+00

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LEGEND

- CONC INLET OR CATCH BASIN TYPE 1/1L
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- STORM DRAINAGE STRUCTURE ID NUMBER
- STORMFILTER WATER QUALITY UNIT
- UNDERDRAIN PIPE
- PERVIOUS CEMENT CONC. SIDEWALK

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

CONSTRUCTION NOTES

(3) ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE.

(6) INSTALL OUTFALL PROTECTION. SEE DETAIL, SHEET 53.

(15) END SIDEWALK FRENCH DRAIN.

PROFILE NOTES

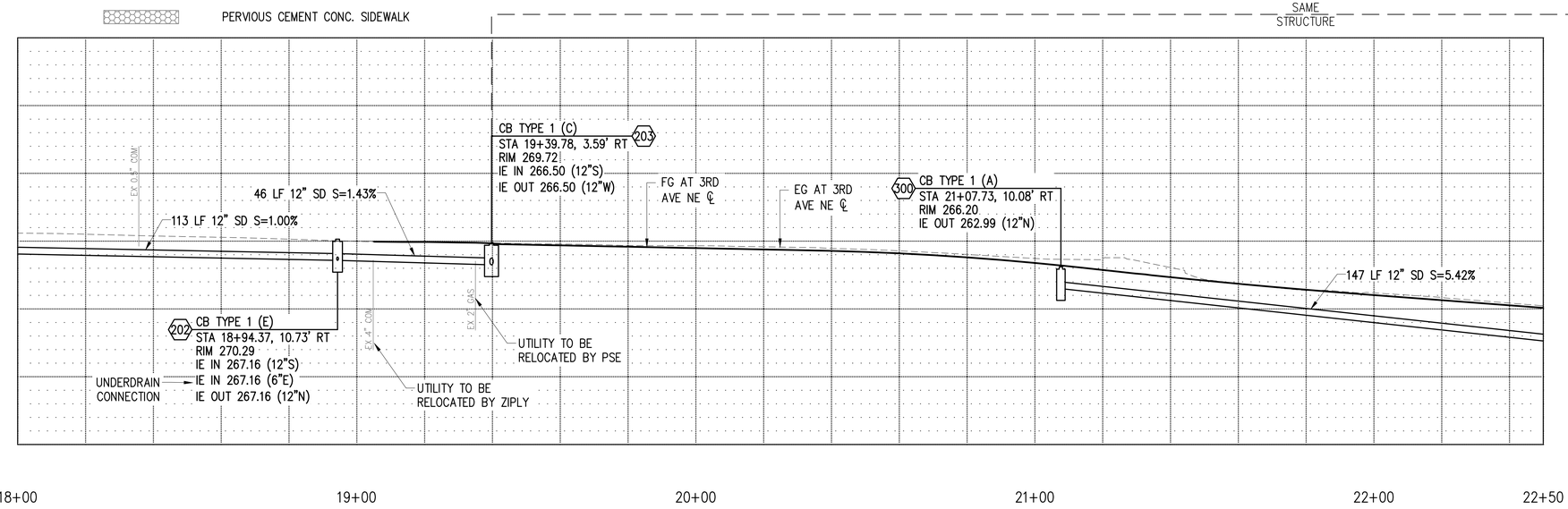
(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

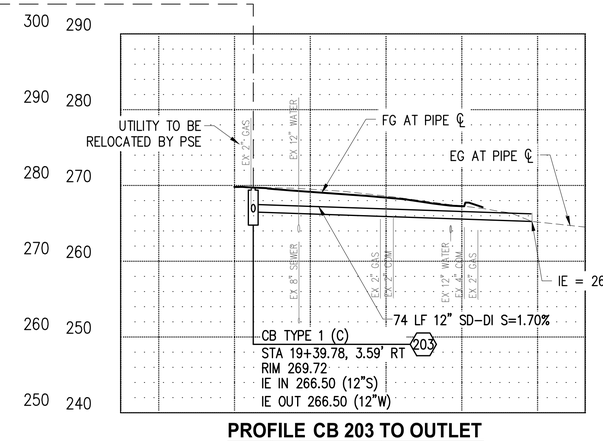
(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.





PROFILE CB 203 TO OUTLET
HOR: 1"=20' VER: 1"=10'

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PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 35703 — REGISTERED PROFESSIONAL ENGINEER

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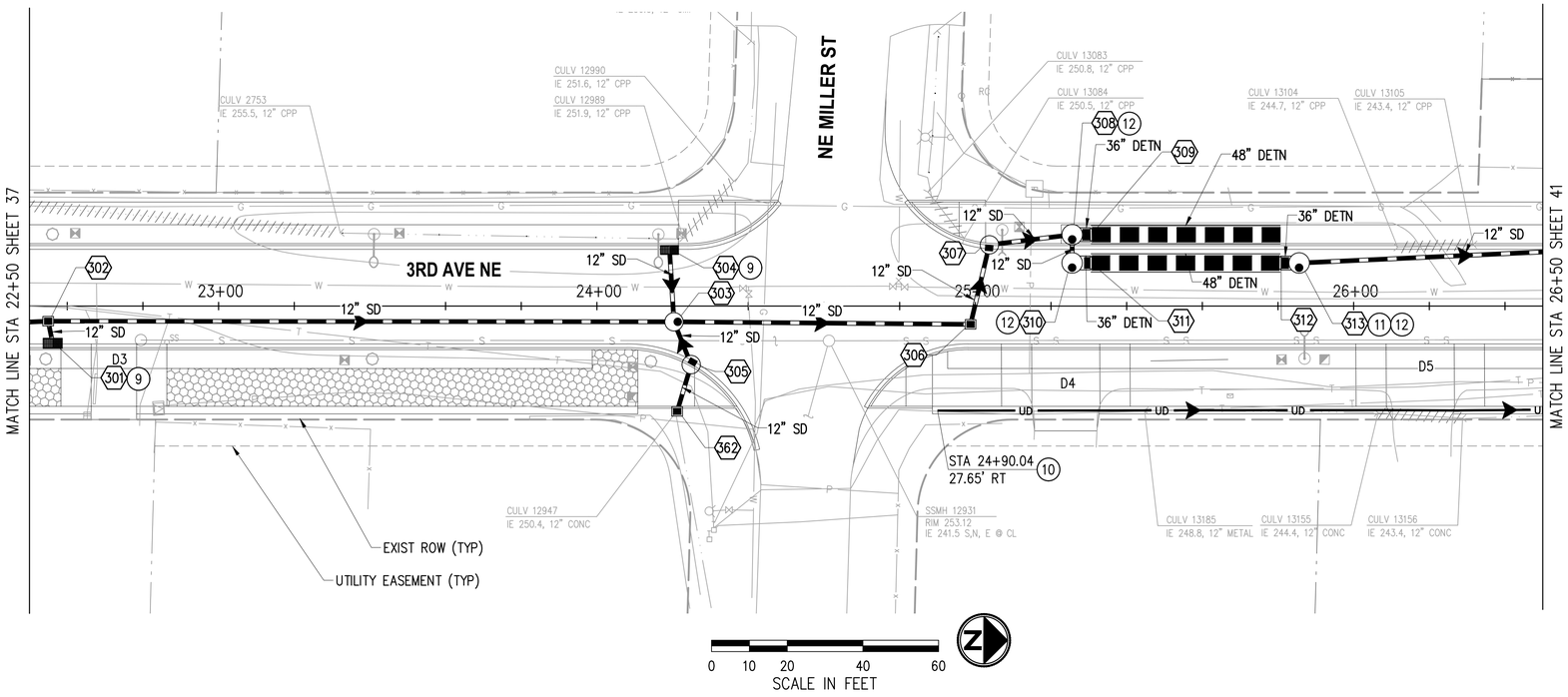
City of Duvall
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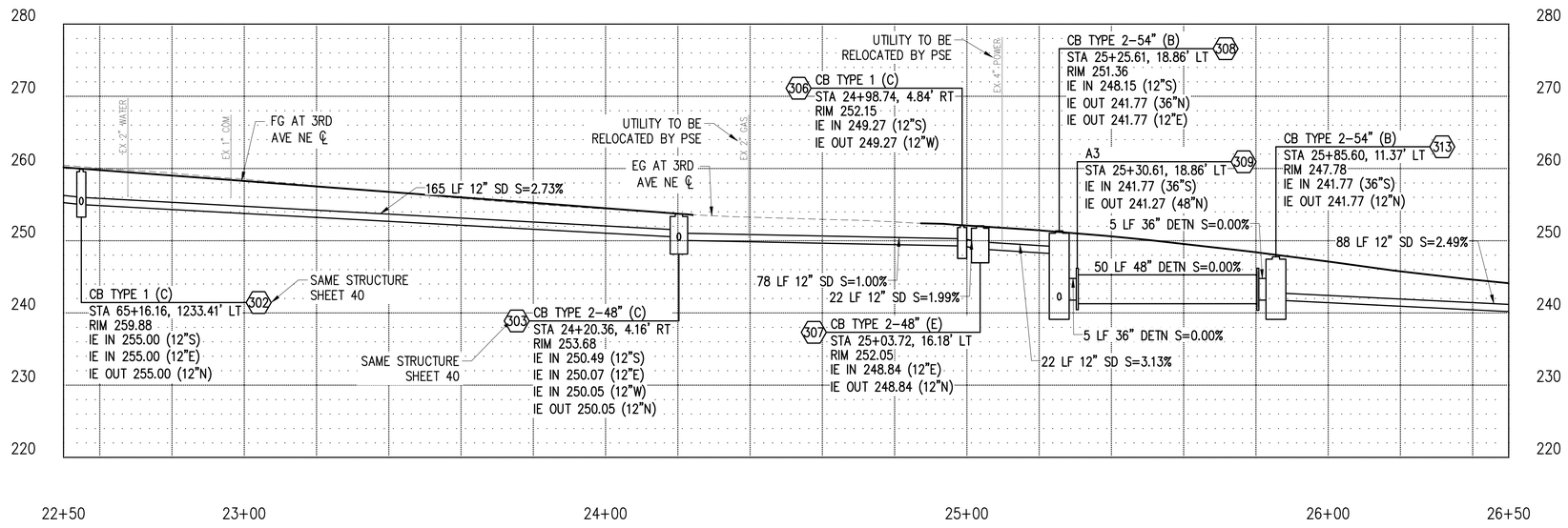
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
STA 18+00 TO STA 22+50

KPG PROJECT No. 21078 | SHT 38 OF 119

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

CONSTRUCTION NOTES

(9) INSTALL CONCRETE CATCHBASIN STORMFILTER WATER QUALITY UNIT. SEE DETAIL, SHEET 54. OUTLET PIPE MUST EXIT AT 90° ANGLE.

(10) BEGIN SIDEWALK FRENCH DRAIN.

(11) INSTALL DETENTION FACILITY OUTLET STRUCTURE. SEE DETAIL, SHEET 53.

(12) INSTALL CONFINED SPACE WARNING SIGN BENEATH ACCESS COVER.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1/1L
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- (##) STORM DRAINAGE STRUCTURE ID NUMBER
- STORMFILTER WATER QUALITY UNIT
- UD — UNDERDRAIN PIPE
- PERVIOUS CEMENT CONC. SIDEWALK

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 35703 — REGISTERED PROFESSIONAL ENGINEER

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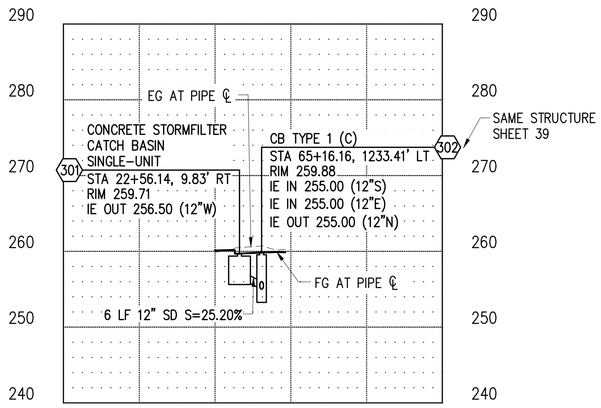
City of Duvall
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

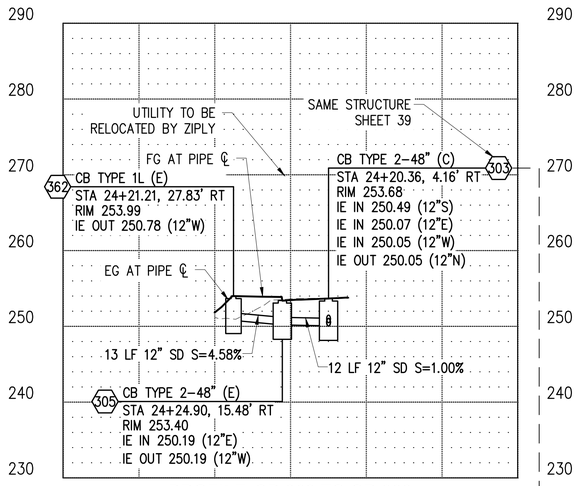
STORMWATER PLAN & PROFILE
STA 22+50 TO STA 26+50

KPG PROJECT No. 21078 | SHT 39 OF 119

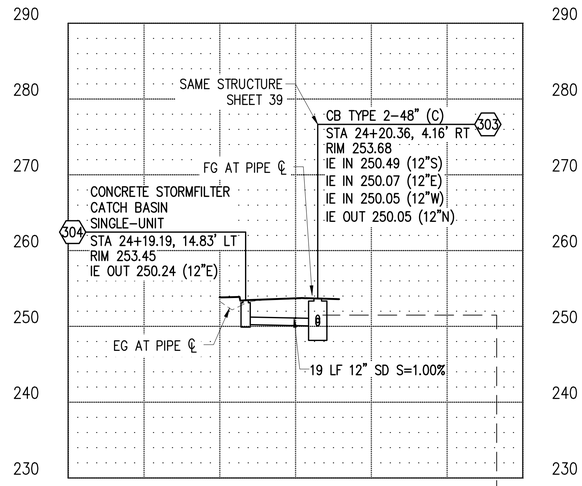
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PROFILE CB 301 TO CB 302
HOR: 1"=20' VER: 1"=10'

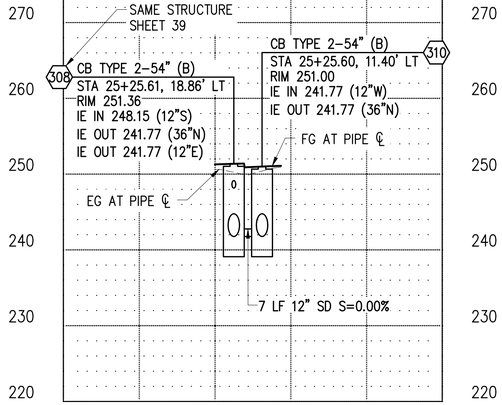


PROFILE CB 362 TO CB 303
HOR: 1"=20' VER: 1"=10'



PROFILE CB 304 TO CB 303
HOR: 1"=20' VER: 1"=10'

SAME STRUCTURE



PROFILE CB 308 TO CB 310
HOR: 1"=20' VER: 1"=10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3–020–003
   b. TYPEL 1L PER COD STD DETAIL 3–020–004
   c. TYPE 2 PER COD STD DETAIL 3–020–005
   d. CONCRETE INLET PER COD STD DETAIL 3–020–012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5–010–007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3–020–018 AND 3–02–014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3–020–022 AND 3–020–023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3–020–015 AND 3–02–014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B–30.50–03 AND COD STD DETAIL 3–02–014.

NO.	DATE	BY	APPR.	REVISIONS

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ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 35703 — REGISTERED PROFESSIONAL ENGINEER

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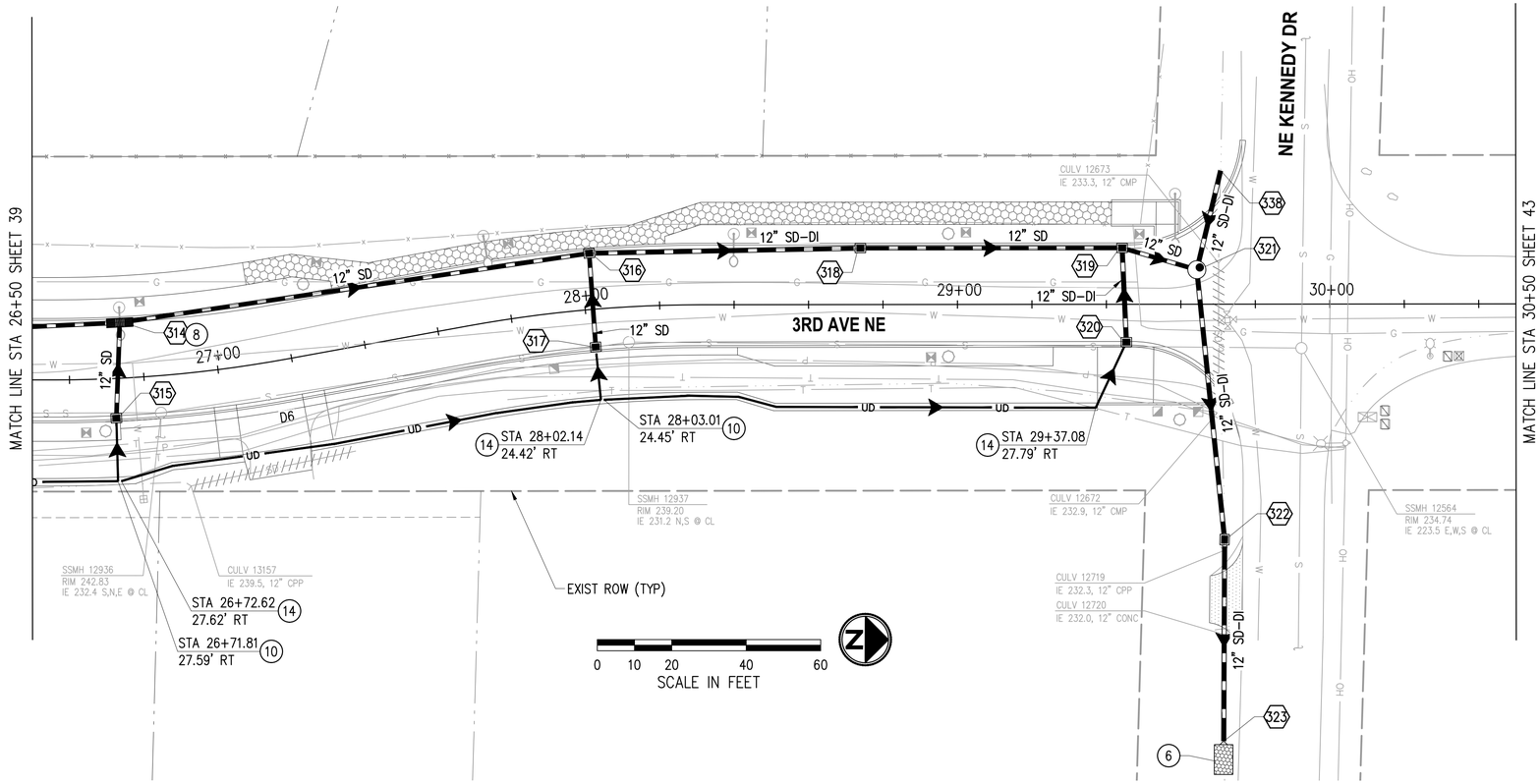
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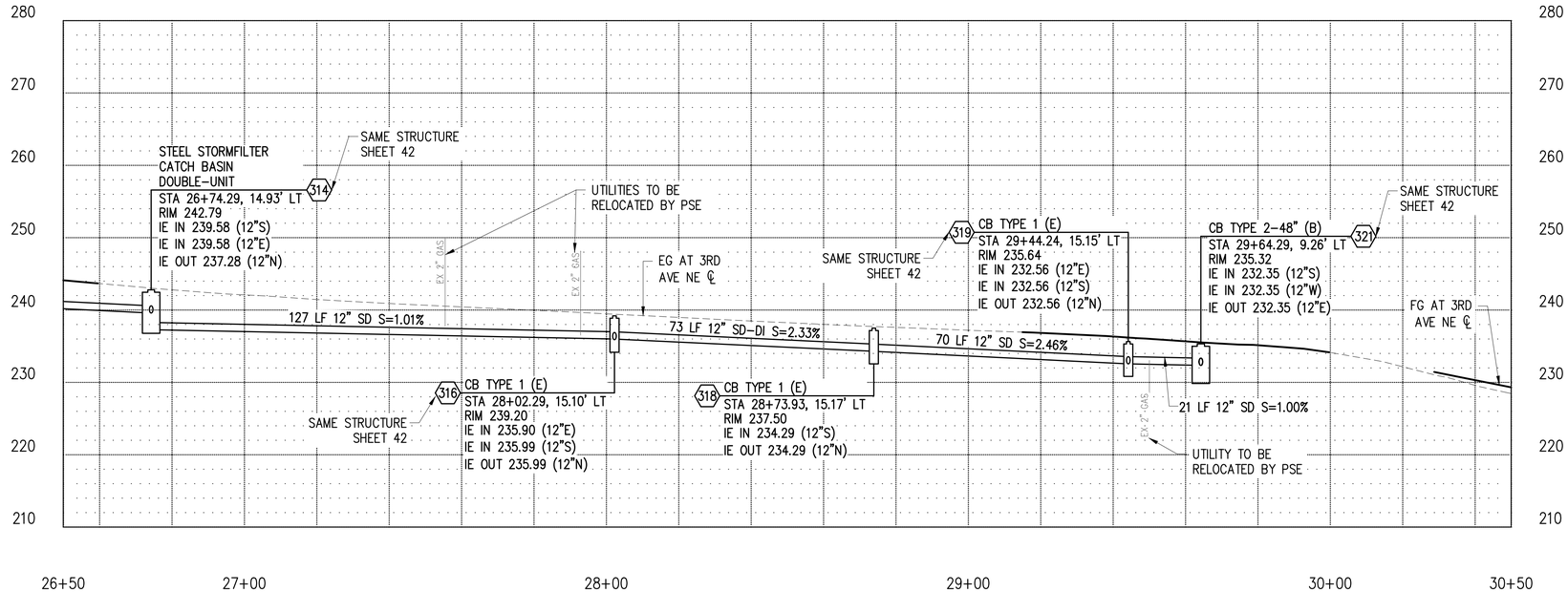
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
DRAINAGE CROSSINGS STA 22+50 TO STA 26+50

KPG PROJECT No. 21078 | SHT 40 OF 119

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

CONSTRUCTION NOTES

(6) INSTALL OUTFALL PROTECTION. SEE DETAIL, SHEET 53.

(7) INSTALL BEVELED END PIPE SECTION PER COD STD DETAIL 3-020-001 AND DEBRIS BARRIER. SEE DETAIL, SHEET 53.

(8) INSTALL STEEL CATCHBASIN STORMFILTER DOUBLE-UNIT WATER QUALITY UNIT. SEE DETAIL, SHEET 55.

(10) BEGIN SIDEWALK FRENCH DRAIN.

(11) INSTALL DETENTION FACILITY OUTLET STRUCTURE. SEE DETAIL, SHEET 53.

(14) INSTALL STEEL CATCHBASIN STORMFILTER SINGLE-UNIT WATER QUALITY UNIT. SEE DETAIL, SHEET 54.

(15) END SIDEWALK FRENCH DRAIN.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1/1L
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- (##) STORM DRAINAGE STRUCTURE ID NUMBER
- STORMFILTER WATER QUALITY UNIT
- UD — UNDERDRAIN PIPE
- PERVIOUS CEMENT CONC. SIDEWALK

NO.	DATE	BY	APPR.	REVISIONS

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ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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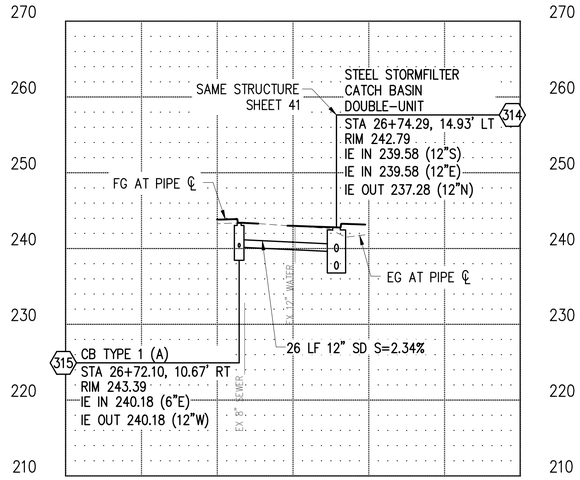
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

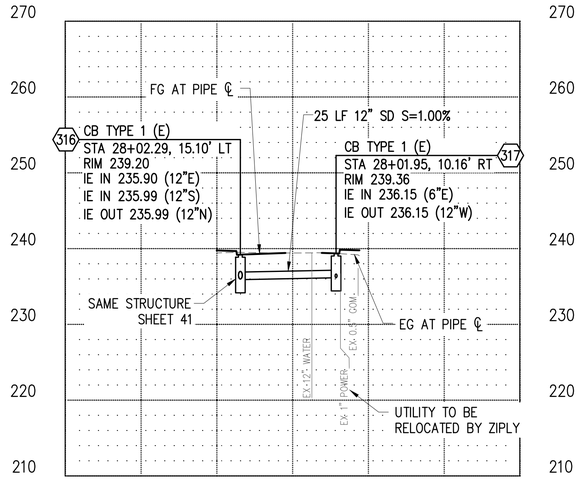
STORMWATER PLAN & PROFILE
STA 26+50 TO STA 30+50

KPG PROJECT No. 21078 | SHT 41 OF 119

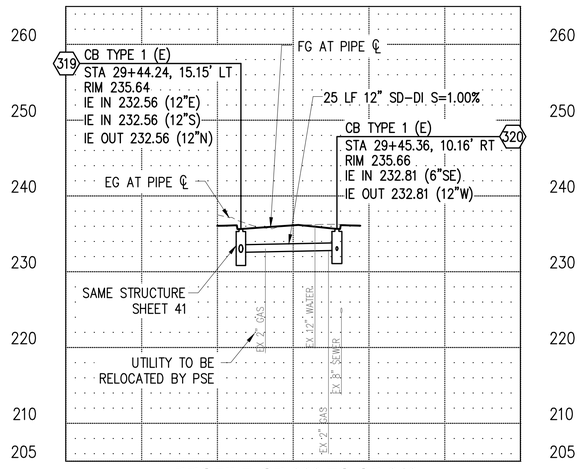
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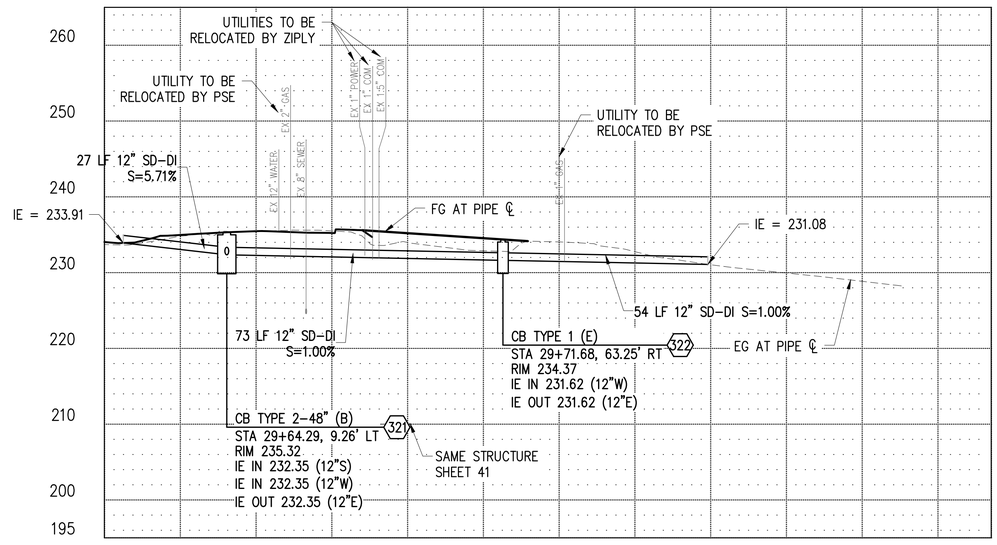
PROFILE CB 315 TO CB 314
HOR: 1"=20' VER: 1"=10'



PROFILE CB 317 TO CB 316
HOR: 1"=20' VER: 1"=10'



PROFILE CB 320 TO CB 319
HOR: 1"=20' VER: 1"=10'



PROFILE CB 321 TO CB 322
HOR: 1"=20' VER: 1"=10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

NO.	DATE	BY	APPR.	REVISIONS

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ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR STATE OF WASHINGTON 35703 REGISTERED PROFESSIONAL ENGINEER

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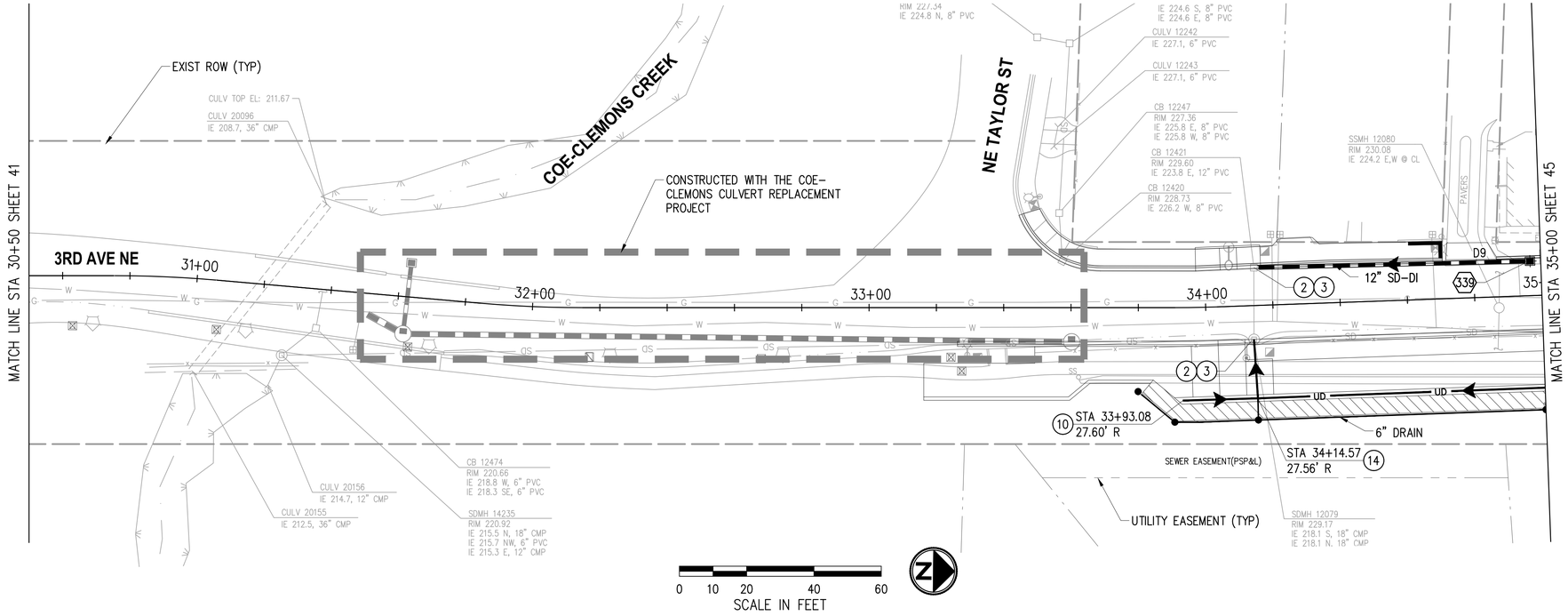
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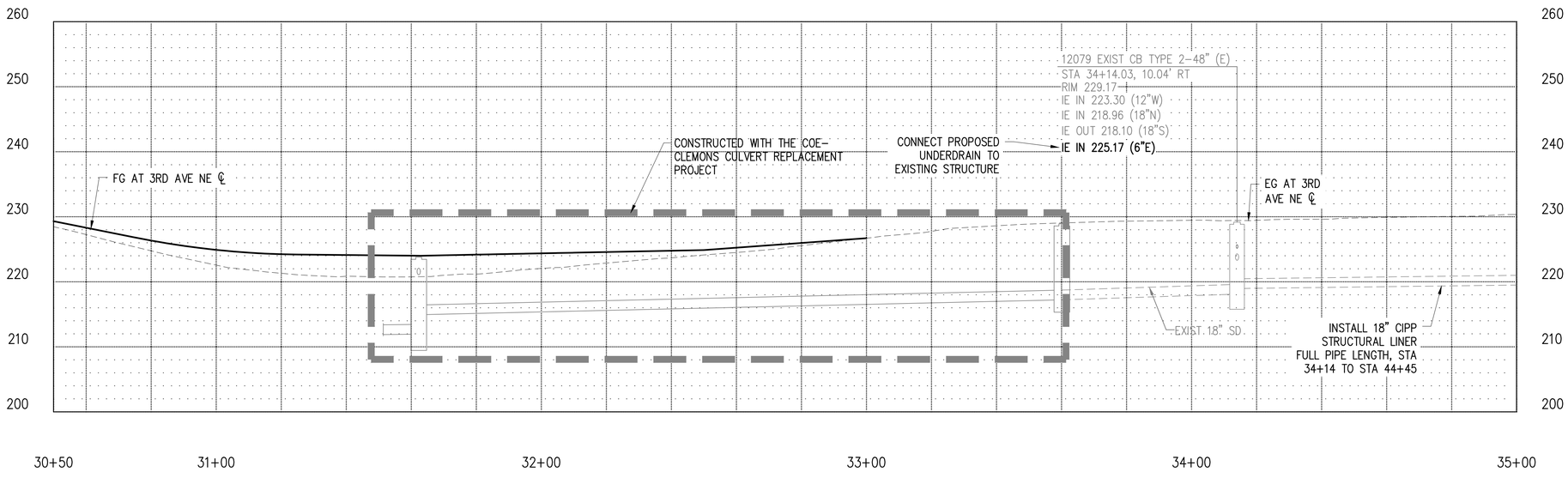
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
DRAINAGE CROSSINGS STA 26+50 TO STA 30+50

KPG PROJECT No. 21078 | SHT 42 OF 119

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

CONSTRUCTION NOTES

(2) CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE.

(3) ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE.

(10) BEGIN SIDEWALK FRENCH DRAIN.

(15) END SIDEWALK FRENCH DRAIN.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1/1L
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- (##) STORM DRAINAGE STRUCTURE ID NUMBER
- STORMFILTER WATER QUALITY UNIT
- UD UNDERDRAIN PIPE
- WALL DRAIN PIPE AND CLEANOUT

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ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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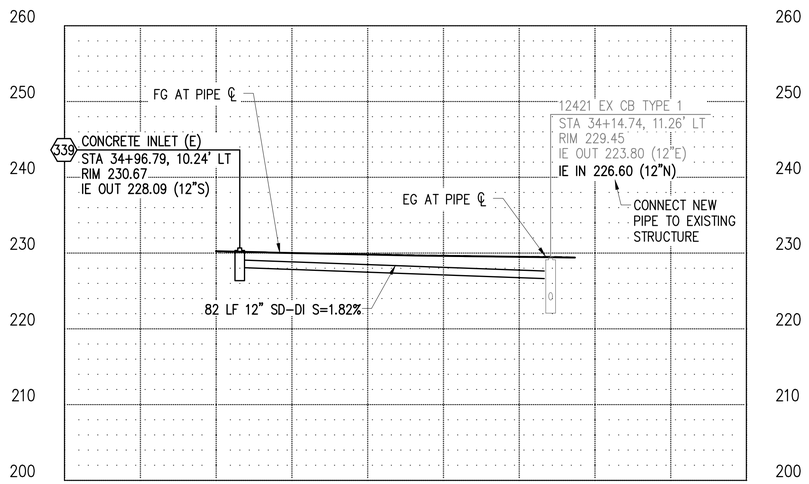
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CITY OF DUVALL
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STORMWATER PLAN & PROFILE
STA 30+50 TO STA 35+00

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PROFILE CB 339 TO EX CB 12421
HOR: 1"=20' VER: 1"=10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

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PROJECT ENGINEER	DATE

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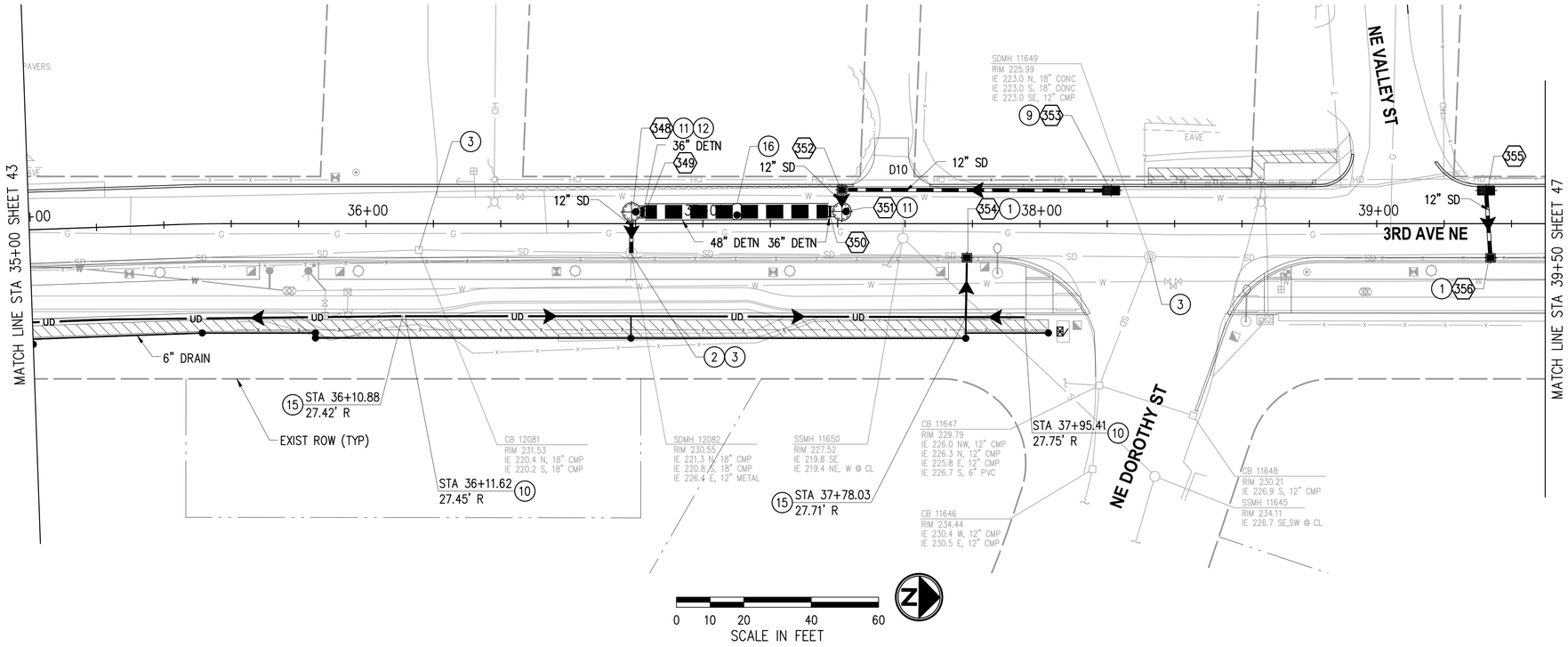
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
DRAINAGE CROSSINGS STA 30+50 TO STA 35+00

KPG PROJECT No. 21078 | SHT 44 OF 119

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

CONSTRUCTION NOTES

(1) CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE.

(2) CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE.

(3) ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE.

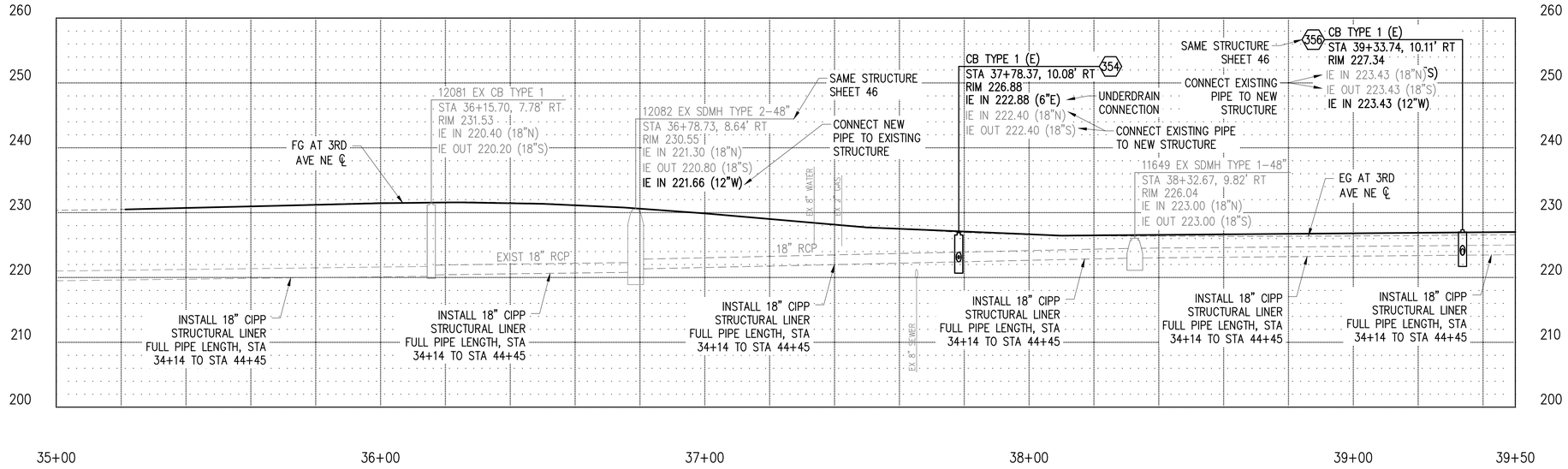
(9) INSTALL CONCRETE CATCHBASIN STORMFILTER WATER QUALITY UNIT. SEE DETAIL, SHEET 54. OUTLET PIPE MUST EXIT AT 90° ANGLE.

(11) INSTALL DETENTION FACILITY OUTLET STRUCTURE. SEE DETAIL, SHEET 53.

(12) INSTALL CONFINED SPACE WARNING SIGN BENEATH ACCESS COVER.

(15) END SIDEWALK FRENCH DRAIN.

(16) INSTALL DETENTION TANK ACCESS RISER PER DETAIL ON SHEET 53



PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1/1L
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- STORM DRAINAGE STRUCTURE ID NUMBER
- STORMFILTER WATER QUALITY UNIT
- UNDERDRAIN PIPE
- WALL DRAIN PIPE AND CLEANOUT

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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MMM	01/2025
DESIGNED BY	DATE
MMM	01/2025
DRAWN BY	DATE
BLT	01/2025
CHECKED BY	DATE

BRIAN L. TAYLOR — STATE OF WASHINGTON — 35703 — REGISTERED PROFESSIONAL ENGINEER

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3131 ELLIOTT AVENUE, SUITE 400
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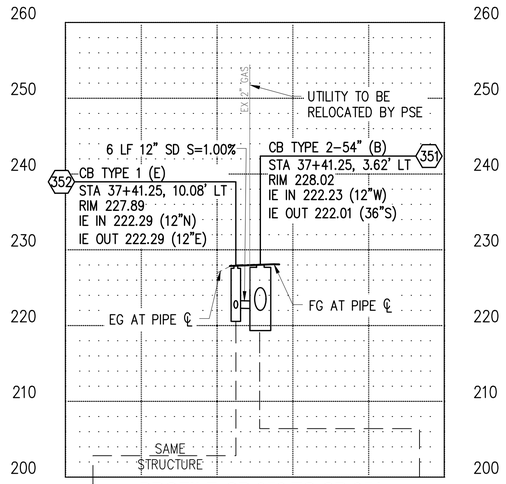
City of Duvall
Small Town. Real Life.

CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

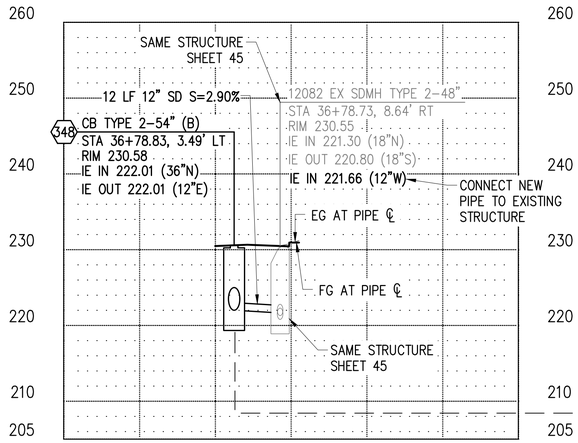
STORMWATER PLAN & PROFILE
STA 35+00 TO STA 39+50

KPG PROJECT No. 21078 | SHT 45 OF 119

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PROFILE CB 352 TO CB 351
HOR: 1"=20' VER: 1"=10'



PROFILE CB 348 TO EX CB 12082
HOR: 1"=20' VER: 1"=10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3–020–003
   b. TYPEL 1L PER COD STD DETAIL 3–020–004
   c. TYPE 2 PER COD STD DETAIL 3–020–005
   d. CONCRETE INLET PER COD STD DETAIL 3–020–012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5–010–007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

PROFILE NOTES

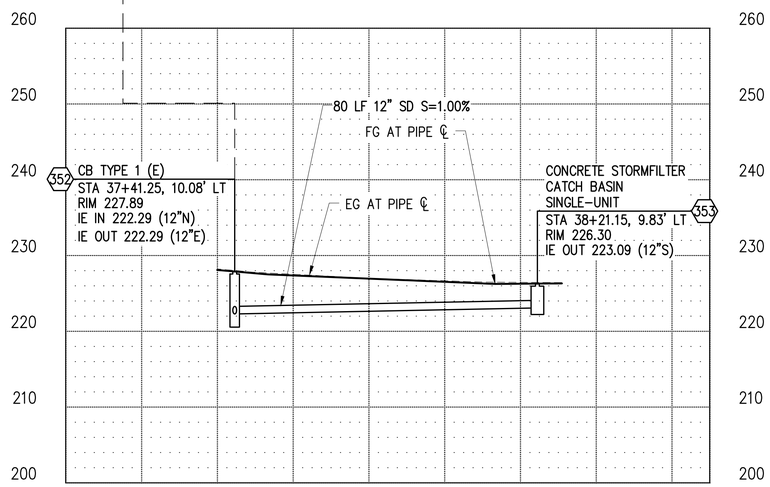
(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3–020–018 AND 3–02–014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3–020–022 AND 3–020–023.

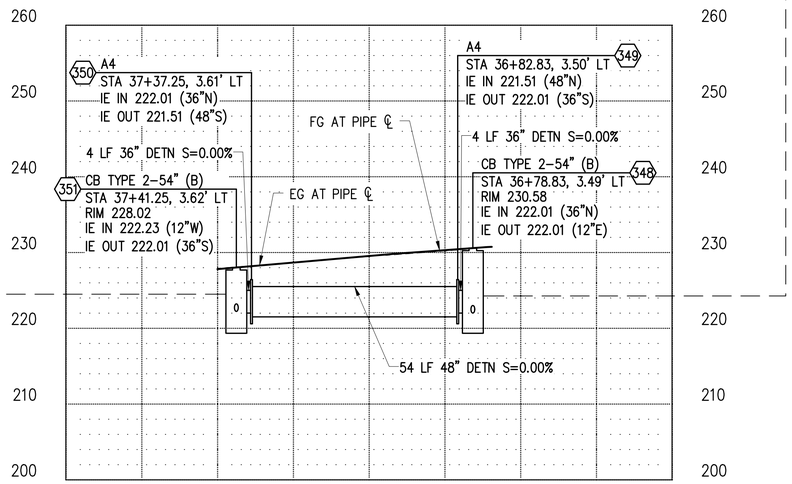
(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3–020–015 AND 3–02–014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

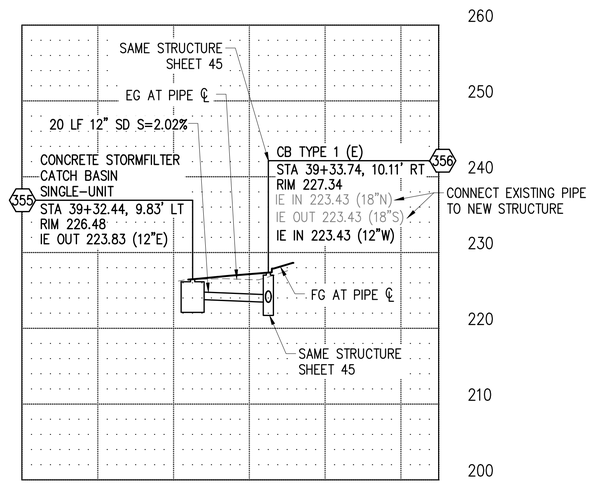
(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B–30.50–03 AND COD STD DETAIL 3–02–014.



PROFILE CB TO 353 TO CB 352
HOR: 1"=20' VER: 1"=10'



PROFILE CB TO 351 TO CB 348
HOR: 1"=20' VER: 1"=10'



PROFILE CB TO 355 TO CB 356
HOR: 1"=20' VER: 1"=10'

NO.	DATE	BY	APPR.	REVISIONS

Approved By

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 35703 — REGISTERED PROFESSIONAL ENGINEER

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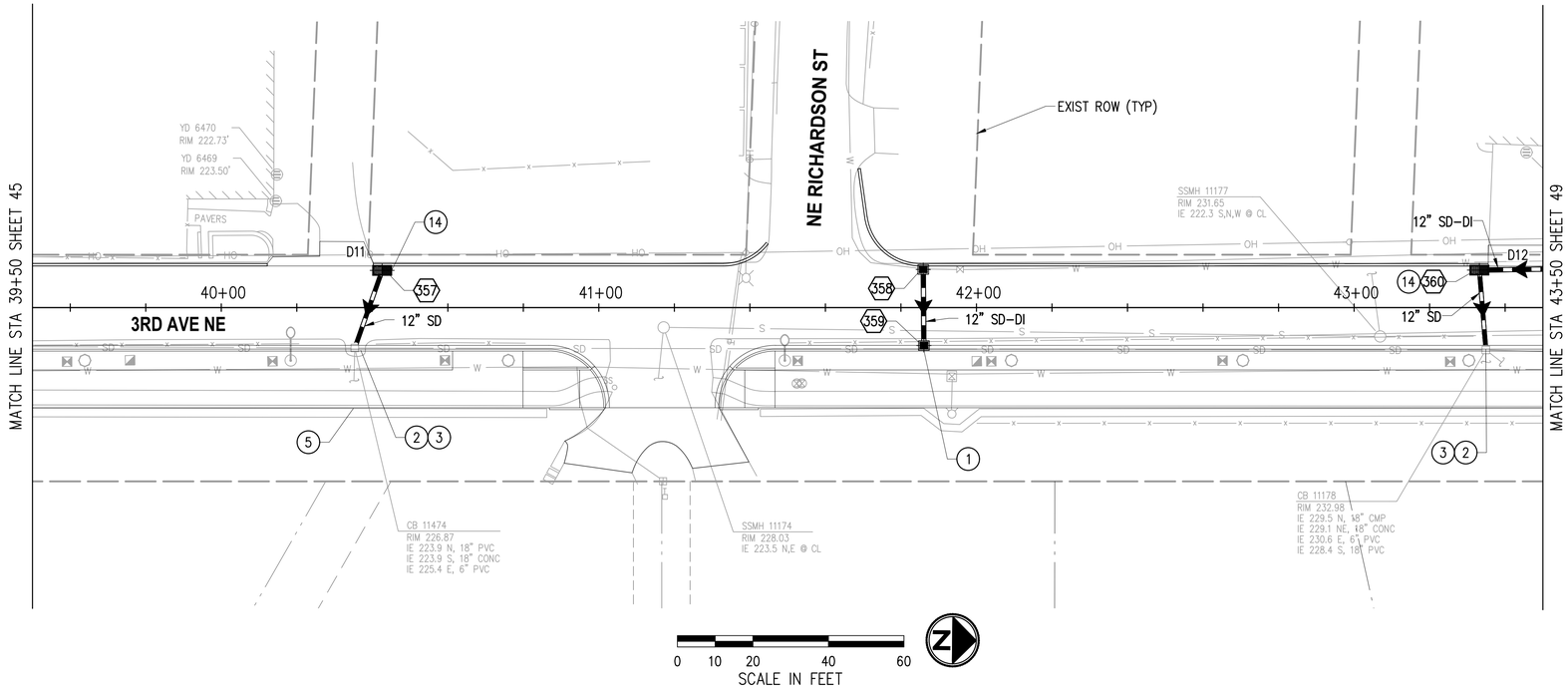
City of Duvall
Small Town. Real Life.

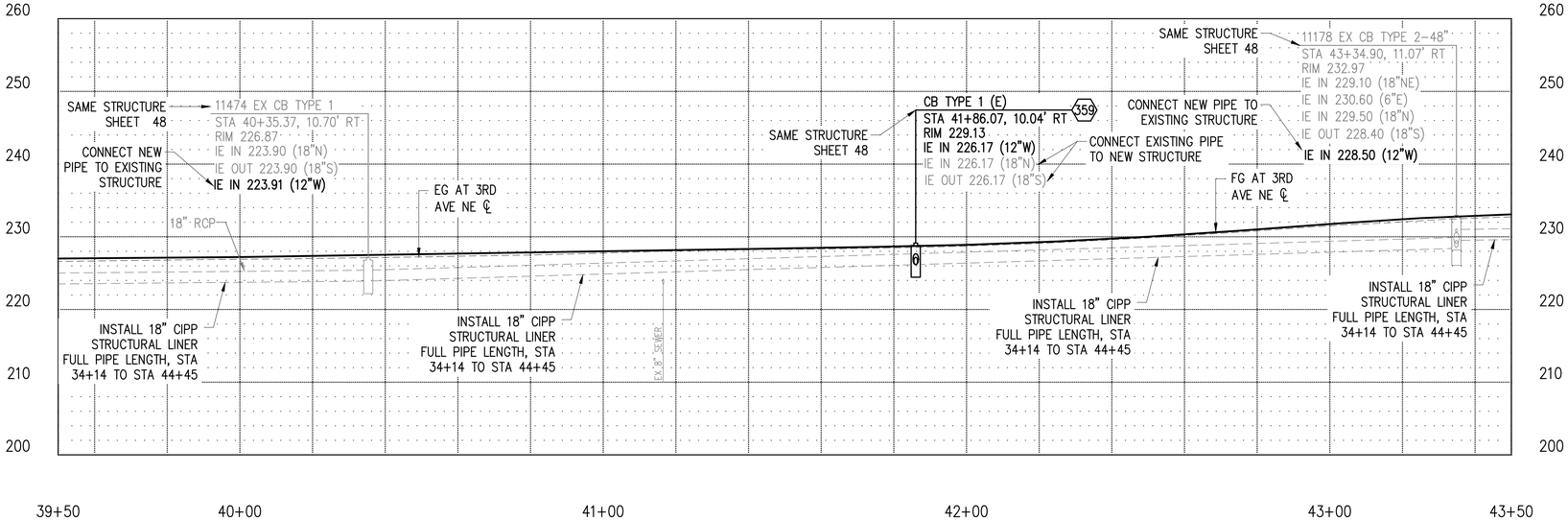
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
DRAINAGE CROSSINGS STA 35+00 TO STA 39+50

KPG PROJECT No. 21078 | SHT 46 OF 119

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

CONSTRUCTION NOTES

(1) CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE.

(2) CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE.

(3) ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE.

(5) CONNECT NEW PIPE TO EXISTING PIPE.

(14) INSTALL STEEL CATCHBASIN STORMFILTER SINGLE-UNIT WATER QUALITY UNIT. SEE DETAIL, SHEET 54.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1/1L
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- STORM DRAINAGE STRUCTURE ID NUMBER
- STORMFILTER WATER QUALITY UNIT
- UNDERDRAIN PIPE

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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FILENAME	
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DESIGNED BY	DATE
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BRIAN L. TAYLOR — STATE OF WASHINGTON — 35703 — REGISTERED PROFESSIONAL ENGINEER

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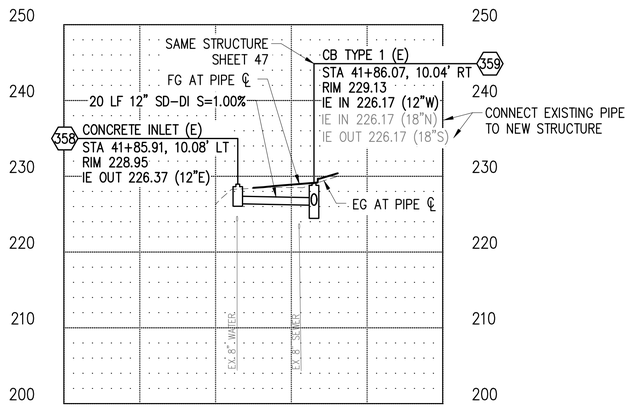
City of Duvall
Small Town. Real Life.

CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

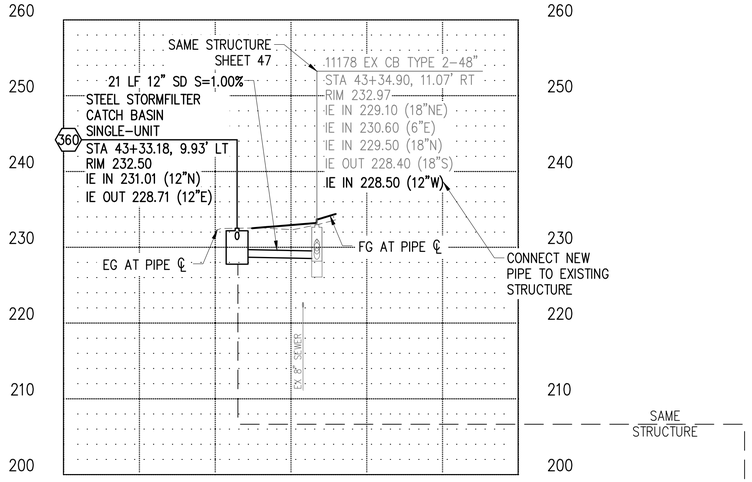
STORMWATER PLAN & PROFILE
STA 39+50 TO STA 43+50

KPG PROJECT No. 21078 | SHT 47 OF 119

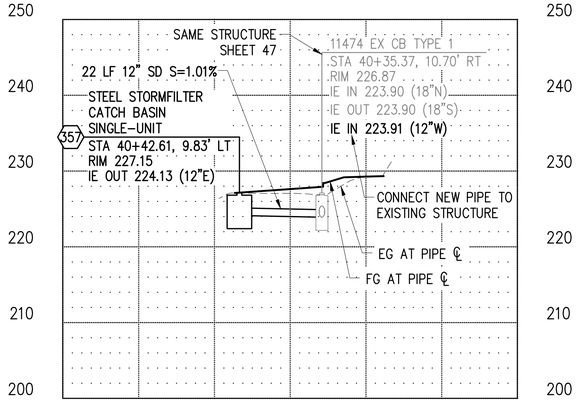
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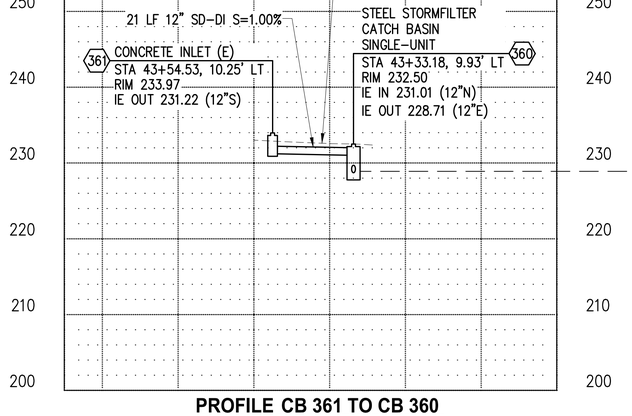
PROFILE CB 358 TO CB 359
HOR: 1"=20' VER: 1"=10'



PROFILE CB 360 TO EX CB 11178
HOR: 1"=20' VER: 1"=10'



PROFILE CB 357 TO EX CB 11474
HOR: 1"=20' VER: 1"=10'



PROFILE CB 361 TO CB 360
HOR: 1"=20' VER: 1"=10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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MMM	01/2025
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BRIAN L. TAYLOR — STATE OF WASHINGTON — 23570 — REGISTERED PROFESSIONAL ENGINEER

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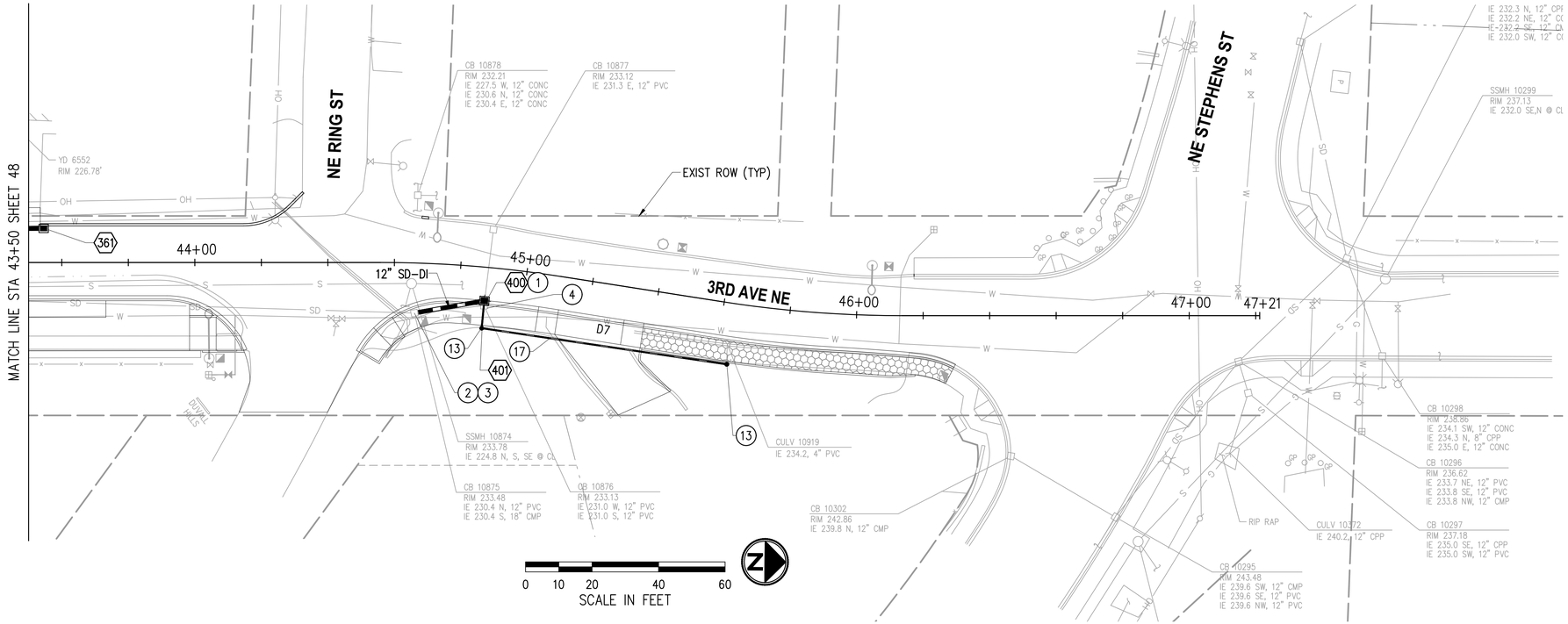
City of Duvall
Small Town. Real Life.

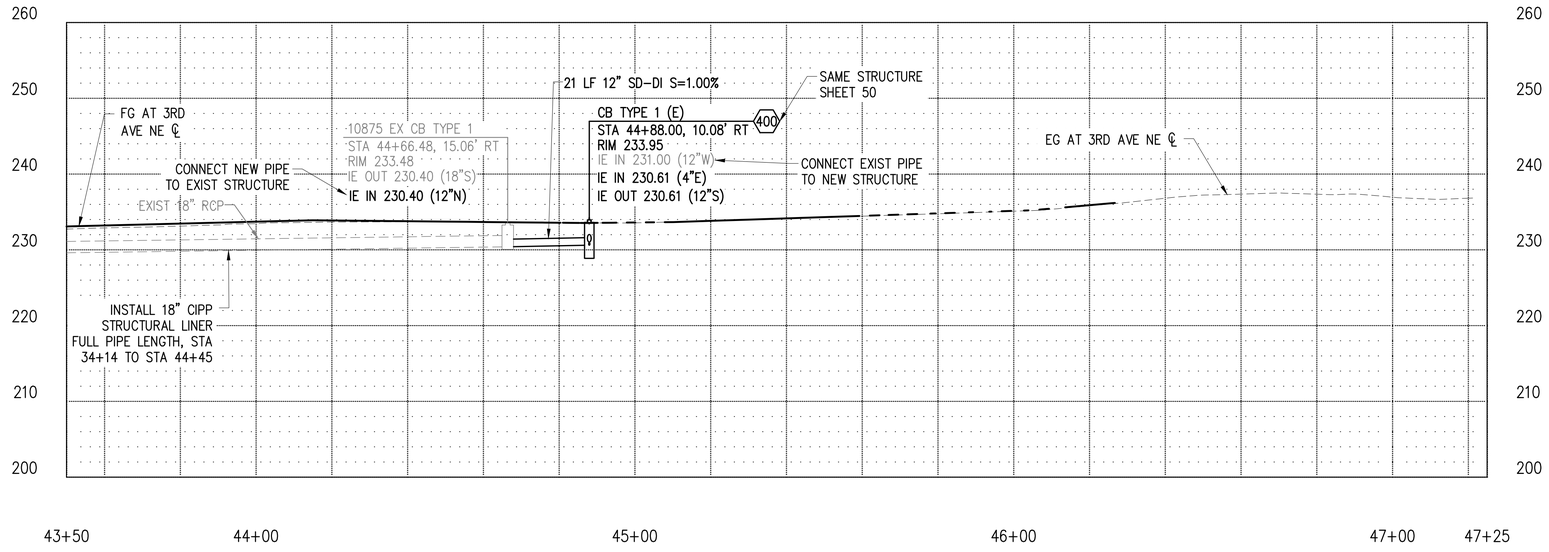
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
DRAINAGE CROSSINGS STA 39+50 TO STA 43+50

KPG PROJECT No. 21078 | SHT 48 OF 119

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

CONSTRUCTION NOTES

(1) CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE.

(2) CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE.

(3) ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE.

(4) REMOVE OR ABANDON EXISTING DRAINAGE STRUCTURE.

(13) INSTALL CLEANOUT. SEE DETAIL, SHEET 55.

(17) INSTALL 74 LF 4" DRAIN PIPE WITH 1' COVER AND 1% SLOPE MINIMUM TO INTERCEPT AND REDIRECT EXISTING 4" PVC.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1/1L
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- STORM DRAINAGE STRUCTURE ID NUMBER
- STORMFILTER WATER QUALITY UNIT
- UNDERDRAIN PIPE
- PERVIOUS CEMENT CONC. SIDEWALK

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ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR STATE OF WASHINGTON 43510 REGISTERED PROFESSIONAL ENGINEER

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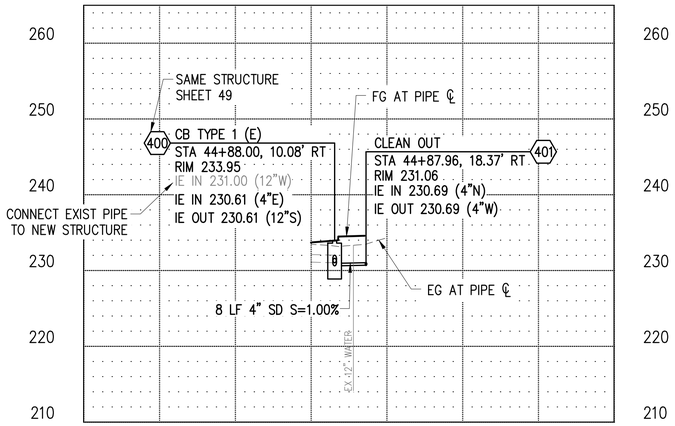
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
STA 43+50 TO STA 47+20

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PROFILE CO 401 TO CB 400

HOR: 1"=20' VER: 1"=10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
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4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
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PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 35703 — REGISTERED PROFESSIONAL ENGINEER

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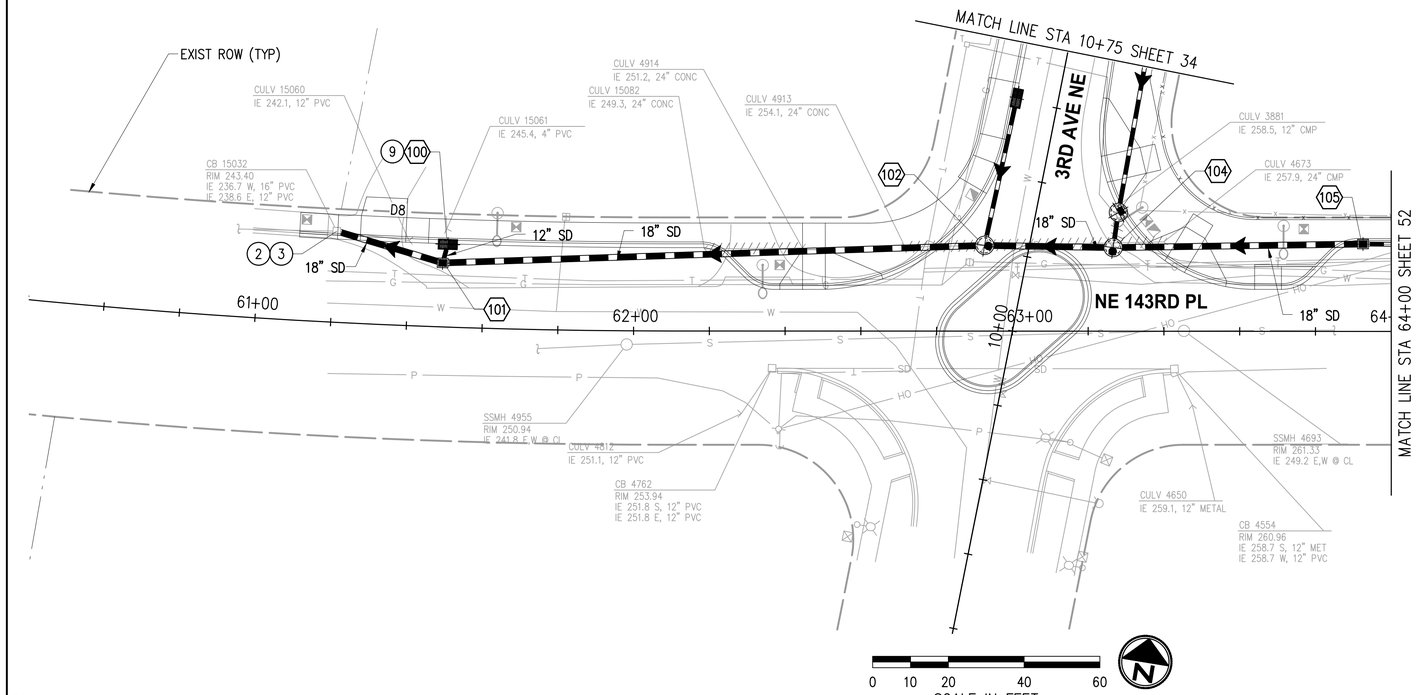
City of Duvall
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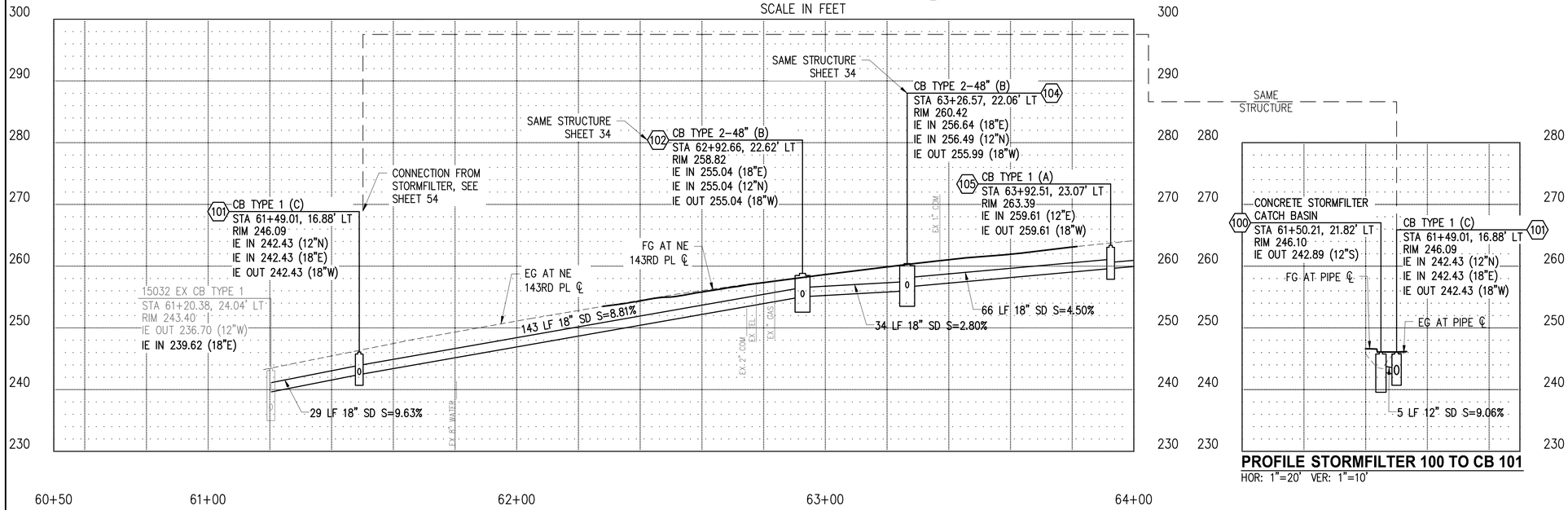
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
DRAINAGE CROSSINGS STA 43+50 TO STA 47+20

KPG PROJECT No. 21078 | SHT 50 OF 119

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PROFILE STORMFILTER 100 TO CB 101
HOR: 1"=20' VER: 1"=10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
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6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

CONSTRUCTION NOTES

(2) CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE.

(3) ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE.

(9) INSTALL CONCRETE CATCHBASIN STORMFILTER WATER QUALITY UNIT. SEE DETAIL SHEET 54. OUTLET PIPE MUST EXIT AT 90° ANGLE

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

(E) INSTALL STRUCTURE WITH RECTANGULAR HERRINGBONE GRATE AND FRAME PER WSDOT STD DETAIL B-30.50-03 AND COD STD DETAIL 3-02-014.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1/1L
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- (##) STORM DRAINAGE STRUCTURE ID NUMBER
- STORMFILTER WATER QUALITY UNIT
- UD UNDERDRAIN PIPE

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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FILENAME	
MMM	01/2025
DESIGNED BY	DATE
MMM	01/2025
DRAWN BY	DATE
BLT	01/2025
CHECKED BY	DATE

BRIAN L. TAYLOR — STATE OF WASHINGTON — 35703 — REGISTERED PROFESSIONAL ENGINEER

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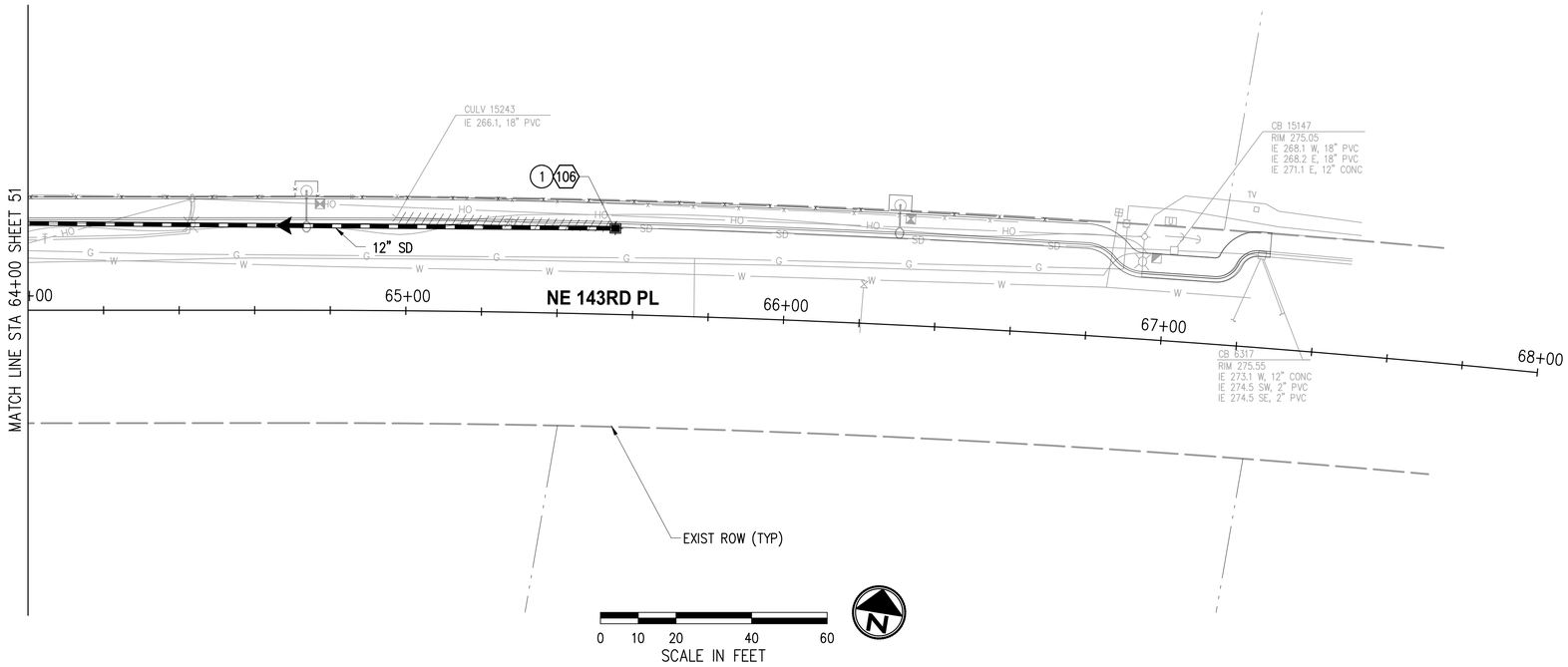
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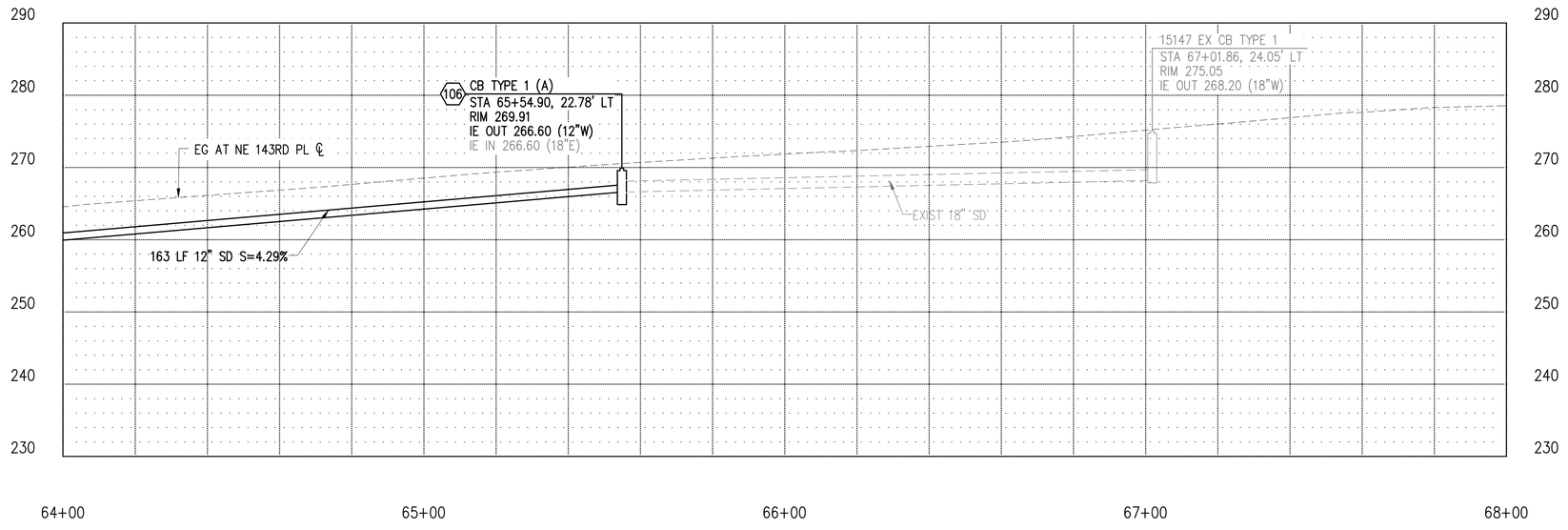
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
STA 60+50 TO STA 64+00

KPG PROJECT No. 21078 | SHT 51 OF 119

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT. HIGH PROFILE WALL PVC IN ACCORDANCE WITH COD STANDARDS.
6. ALL STORMWATER FACILITIES, CATCH BASINS, AND CONVEYANCE SHALL BE CLEANED FOR CITY INSPECTION AND FINAL ACCEPTANCE.

CONSTRUCTION NOTES

(1) CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

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LEGEND

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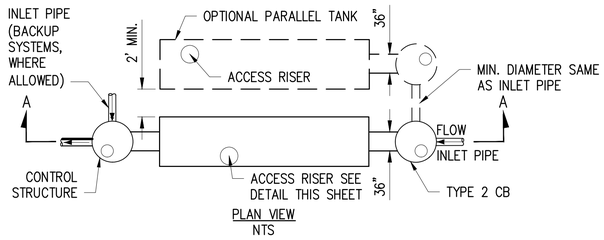
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
STA 64+00 TO STA 68+00

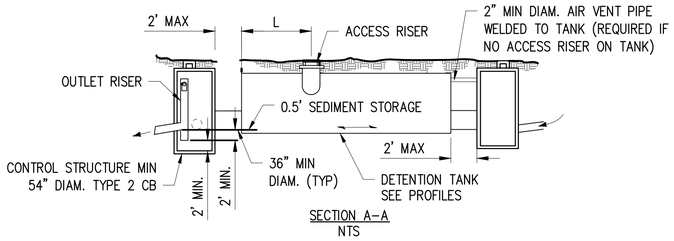
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PLAN VIEW
NTS

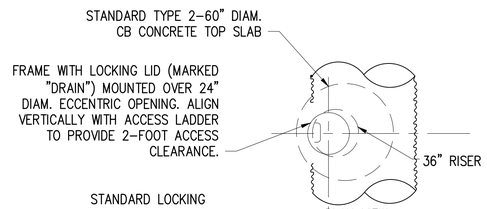
"FLOW–THROUGH" SYSTEM SHOWN SOLID.
DESIGNS FOR "FLOW BACKUP" SYSTEM AND
PARALLEL TANKS SHOWN IN DASHED



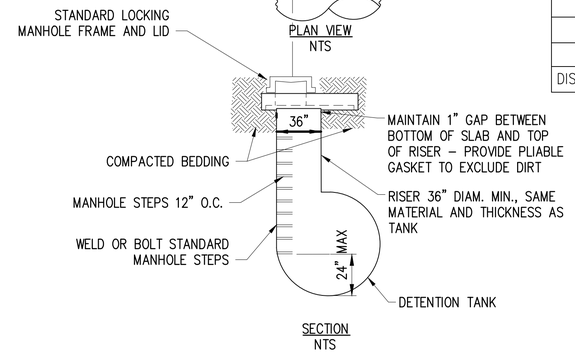
SECTION A–A
NTS

NOTES:
1. ALL METAL PARTS SHALL BE CORROSION RESISTANT.
2. STORMWATER DETENTION PIPE BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL USE CSBC IF ACCEPTABLE TO THE PIPE MANUFACTURER.

DETENTION TANK TYPICAL DETAIL
NTS



PLAN VIEW
NTS



SECTION
NTS

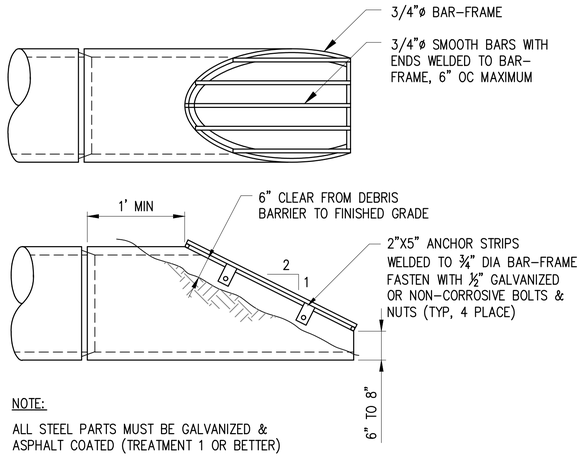
NOTES:
1. USE ADJUSTING BLOCKS AS REQUIRED TO BRING FRAME TO GRADE.
2. ACCESS RISER LID SHALL HAVE OPENINGS EQUIVALENT TO A 2" DIAMETER MIN. TO ALLOW AIR EXCHANGE WITH TANK.

DETENTION TANK ACCESS RISER TYPICAL DETAIL
NTS

DETENTION FACILITY OUTLET STRUCTURES

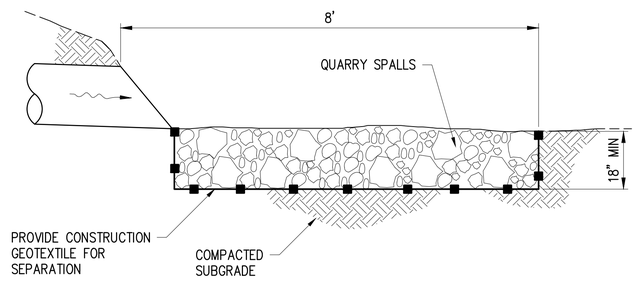
ID	A1 (TANK)	A2 (TANK)	C1 (TANK)	C2 (TANK)
OUTLET STRUCTURE ID	109	119	311	347
OUTLET STRUCTURE ORIFICES	DIAM 1: 0.95 IN, HEIGHT 0 FT FROM PIPE OUTLET IE	DIAM 1: 1.3 IN, HEIGHT 0 FT FROM PIPE OUTLET IE	DIAM 1:1.71 IN, HEIGHT 0 FT FROM PIPE OUTLET IE	DIAM 1:0.89 IN, HEIGHT 0 FT FROM PIPE OUTLET IE
	DIAM 2: 1 IN, HEIGHT 1.8 FT FROM PIPE OUTLET IE	DIAM 2: 1.3 IN, HEIGHT 2.2 FT FROM PIPE OUTLET IE	DIAM 2: 3.45 IN, HEIGHT 1.79 FT FROM PIPE OUTLET IE	DIAM 2: 1 IN, HEIGHT 1.9 FT FROM PIPE OUTLET IE
	DIAM 3: 0.65 IN, HEIGHT 2.64 FT FROM PIPE OUTLET IE	DIAM 3: 1.11 IN, HEIGHT 2.9 FT FROM PIPE OUTLET IE	DIAM 3: 2.2 IN, HEIGHT 2.43 FT FROM PIPE OUTLET IE	DIAM 3: 0.74 IN, HEIGHT 2.7 FT FROM PIPE OUTLET IE
OUTLET RISER HEIGHT	3 FT	3 FT	3 FT	3 FT
OUTLET RISER DIAMETER	24 IN	24 IN	24 IN	24 IN
RISER TYPE	FLAT	FLAT	FLAT	FLAT
LENGTH OF STRUCTURE	26 FT	38 FT	(2) 48 FT	54 FT
VOLUME OF STRUCTURE	327 CU FT	478 CU FT	1257 CU FT	666 CU FT
DISTANCE TO ACCESS RISER (L)	N/A	N/A	N/A	27 FT

NOTES:
1. FLOW CONTROL STRUCTURE SHALL BE IN ACCORDANCE WITH COD STD DETAIL 3–020–025.
2. SEE TABLE FOR OUTLET RISER DESIGN DATA.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SUBMIT SHOP DRAWINGS OF THE PRECAST TYPE 2 CATCH BASIN AND OUTLET RISER FOR APPROVAL BY THE ENGINEER PRIOR TO MANUFACTURING AND FABRICATION.



NOTE:
ALL STEEL PARTS MUST BE GALVANIZED & ASPHALT COATED (TREATMENT 1 OR BETTER)

DEBRIS BARRIER FOR 18-INCH DIAM PIPES
NTS



NOTES:
1. OUTFALL PROTECTION SHALL BE 7' WIDE.
2. WIDTH MAY BE REDUCED TO FIT DITCH WIDTH AT PIPE DISCHARGE LOCATION. IF LESS THAN 7' WIDE THEN OUTFALL PROTECTION SHALL EXTEND UP SIDES OF THE DITCH TO THE PIPE CROWN ELEVATION MIN.

OUTFALL PROTECTION
NTS

NO.	DATE	BY	APPR.	REVISIONS

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ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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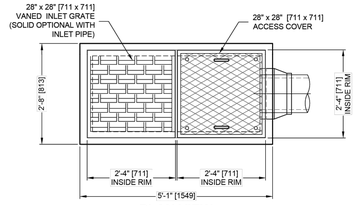
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER DETAILS

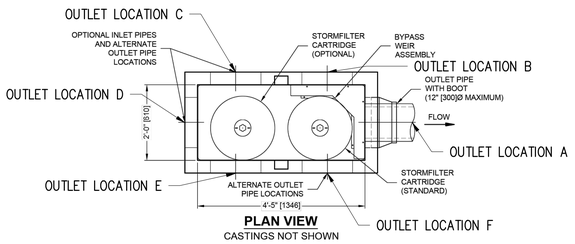
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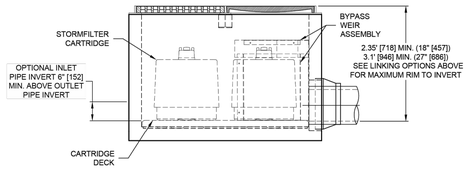
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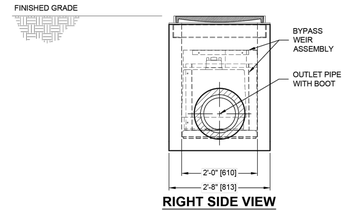
PLAN VIEW



PLAN VIEW
CASTINGS NOT SHOWN



ELEVATION VIEW



RIGHT SIDE VIEW

STORMFILTER DESIGN NOTES

- CONCRETE CATCHBASIN STORMFILTER TREATMENT CAPACITY VARIES BY CARTRIDGE COUNT AND LOCAL APPROVALS
- PEAK CONVEYANCE CAPACITY IS 1.3 CFS
- CONCRETE CATCHBASIN STORMFILTER IS AVAILABLE WITH UP TO TWO (2), 18" [457] OR 27" [686] TALL CARTRIDGES
- UP TO 4 INDIVIDUAL UNITS MAY BE LINKED FOR AN ULTIMATE CAPACITY OF EIGHT (8) CARTRIDGES

CARTRIDGE SIZE (in. [mm])	27 [686]			18 [457]		
RECOMMENDED HYDRAULIC DROP (ft. [mm])	3.05 [930]			2.3 [701]		
SPECIFIC FLOW RATE (gpm/sf [L/s/m^2])	2 [1.36]	1.67* [1.13]*	1 [0.68]	2 [1.36]	1.67* [1.13]*	1 [0.68]
CARTRIDGE FLOW RATE (gpm [L/s])	22.5 [1.4]	18.79 [1.19]	11.25 [0.71]	15 [0.95]	12.53 [0.79]	7.5 [0.47]

* 1.67 gpm/sf [1.13 L/s/m^2] SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

LINKING OPTIONS SHOWN BELOW. FLEXIBLE INLET PIPE, GRATED AND SOLID COVER PLACEMENT.
CONTACT YOUR CONTECH REPRESENTATIVE FOR MORE INFORMATION



MAXIMUM RIM TO OUTLET PIPE INVERT HEIGHT IS 6.05' [1844].

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. ALTERNATE DIMENSIONS ARE MILLIMETERS [mm] UNLESS NOTED OTHERWISE.
4. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
5. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES [178]. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
7. SPECIFIC FLOW RATE IS THE MEASURE OF THE FLOW (GPM [L/S]) DIVIDED BY THE MEDIA SURFACE CONTACT AREA (SF [m^2]).
8. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 0'-2" [51] AND GROUNDWATER ELEVATION AT; OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.

INSTALLATION NOTES
1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE.
3. CONTRACTOR TO PROVIDE AND INSTALL PIPES. MATCH PIPE INVERTS SHOWN ON PROJECT SPECIFIC DRAWINGS.
4. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (cfs [L/s])			
PEAK FLOW RATE (cfs [L/s])			
RETURN PERIOD OF PEAK FLOW (yrs)			
CARTRIDGE SIZE (27, 18)			
CARTRIDGE FLOW RATE			
MEDIA TYPE (PERLITE, ZPG, PSORB)			
NUMBER OF CARTRIDGES REQUIRED			
RIM ELEVATION			
PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			
NOTES/SPECIAL REQUIREMENTS:			

The Stormwater Management StormFilter®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,322,629, 5,324,429, 5,707,527, 5,985,157, 6,027,639, 6,649,048, RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
11815 NE Glenn Widing Drive, Portland, OR 97220
800-548-4667 503-240-3393 800-561-1271 FAX

CONCRETE CATCHBASIN
STORMFILTER
STANDARD DETAIL

I:\COMMON\ACAD\TEMPLATE\PDTG STORM\LTER\4X5 STANDARD DRAWINGS\SFCBR\SFCB-SDWGFROM COMMON'S 11-4-2009\SFCB-CTL.DWG 1/6/2025 9:19 AM

STORMFILTER STEEL CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 1 CARTRIDGE CATCHBASIN HAS A MAXIMUM OF ONE CARTRIDGE. SYSTEM IS SHOWN WITH A 27" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL.
PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

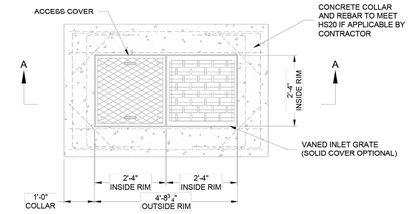
CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"			18"			18" DEEP		
RECOMMENDED HYDRAULIC DROP (H)	3.05'			2.3'			3.3'		
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf
CARTRIDGE FLOW RATE (gpm)	22.5	18.79	11.25	15	12.53	7.5	15	12.53	7.5
PEAK HYDRAULIC CAPACITY	1.0			1.0			2.25		
INLET PERMANENT POOL LEVEL (A)	1'-0"			1'-0"			2'-0"		
OVERALL STRUCTURE HEIGHT (B)	4'-9"			3'-9"			4'-9"		

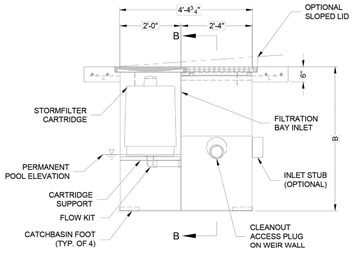
* 1.67 gpm/sf SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
3. STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
4. INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
5. MANUFACTURER TO APPLY A SURFACE BEAD WELD IN THE SHAPE OF THE LETTER "O" ABOVE THE OUTLET PIPE STUB ON THE EXTERIOR SURFACE OF THE STEEL SPCB.
6. STORMFILTER CATCHBASIN EQUIPPED WITH 4 INCH (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8 INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15 INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLEXIBLE COUPLING BY CONTRACTOR.
7. STEEL STRUCTURE TO BE MANUFACTURED OF 1/4 INCH STEEL PLATE. CASTINGS SHALL MEET AASHTO M306 LOAD RATING. TO MEET HS20 LOAD RATING ON STRUCTURE, A CONCRETE COLLAR IS REQUIRED. WHEN REQUIRED, CONCRETE COLLAR WITH #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
8. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
9. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

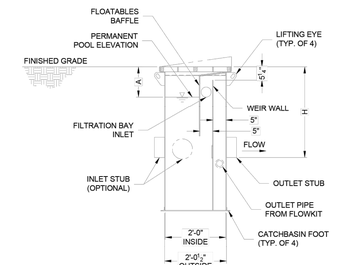
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B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.



PLAN VIEW



SECTION A-A



SECTION B-B

1-CARTRIDGE CATCHBASIN STORMFILTER DATA

STRUCTURE ID		XXX
WATER QUALITY FLOW RATE (cfs)		X.XX
PEAK FLOW RATE (<1 cfs)		X.XX
RETURN PERIOD OF PEAK FLOW (yrs)		XXX
CARTRIDGE HEIGHT (27", 18", 18" DEEP)		XX
CARTRIDGE FLOW RATE (gpm)		XX
MEDIA TYPE (PERLITE, ZPG, PSORB)		XXXXX
RIM ELEVATION		XXX.XX'
PIPE DATA:	I.E.	DIAMETER
INLET STUB	XXX.XX'	XX"
OUTLET STUB	XXX.XX'	XX"
CONFIGURATION	OUTLET / INLET / INLET	OUTLET / INLET / INLET
SLOPED LID		YES/NO
SOLID COVER		YES/NO
NOTES/SPECIAL REQUIREMENTS:		

The Stormwater Management StormFilter®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,322,629, 5,324,429, 5,707,527, 5,985,157, 6,027,639, 6,649,048, RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-526-3999 513-645-7000 513-645-7993 FAX

1 CARTRIDGE CATCHBASIN
STORMFILTER
STANDARD DETAIL

CONTECH CONCRETE STORMFILTER CATCH BASIN DETAIL
NTS

CONTECH STEEL STORMFILTER CATCH BASIN DETAIL - SINGLE
NTS

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	100			103			113			116			123			301			304			314			353			355			357			360		
TYPE	CONCRETE CATCHBASIN			CONCRETE CATCHBASIN			STEEL CATCHBASIN			CONCRETE CATCHBASIN			STEEL CATCHBASIN			CONCRETE CATCHBASIN			CONCRETE CATCHBASIN			STEEL CATCHBASIN			CONCRETE CATCHBASIN			CONCRETE CATCHBASIN			STEEL CATCHBASIN			STEEL CATCHBASIN		
UNIT SIZE	SINGLE UNIT			SINGLE UNIT			SINGLE UNIT			SINGLE UNIT			SINGLE UNIT			SINGLE UNIT			SINGLE UNIT			DOUBLE UNIT			SINGLE UNIT			SINGLE UNIT			SINGLE UNIT			SINGLE UNIT		
INLET TYPE	GRATE INLET			GRATE INLET			GRATE INLET			GRATE INLET			GRATE INLET			GRATE INLET			GRATE INLET			GRATE & PIPE INLET			GRATE INLET			GRATE INLET			GRATE INLET			GRATE & PIPE INLET		
WATER QUALITY FLOW RATE (cfs)	0.0094			0.0041			0.0041			0.0064			0.0023			0.0033			0.0049			0.0217			0.0022			0.0055			0.0062			0.0045		
PEAK FLOW RATE (cfs [L/S])	–			–			–			–			–			–			–			–			–			–			–			–		
RETURN PERIOD OF PEAK FLOW (yrs)	WWHM WQ			WWHM WQ			WWHM WQ			WWHM WQ			WWHM WQ			WWHM WQ			WWHM WQ			WWHM WQ			WWHM WQ			WWHM WQ			WWHM WQ			WWHM WQ		
CARTRIDGE SIZE (27, 18)	18			18			18			18			18			18			18			18			18			18			18			18		
CARTRIDGE FLOW RATE (cfs)	0.025			0.025			0.025			0.025			0.025			0.025			0.025			0.0250			0.025			0.025			0.025			0.025		
MEDIA TYPE (PERLITE, ZPG, PSORB)	ZPG			ZPG			ZPG			ZPG			ZPG			ZPG			ZPG			ZPG			ZPG			ZPG			ZPG			ZPG		
NUMBER OF CARTRIDGES REQUIRED	1			1			1			1			1			1			1			2			1			1			1			1		
RIM ELEVATION	246.10			261.58			265.05			268.51			268.03			260.21			253.45			242.80			226.30			226.48			227.15			232.74		
PIPE DATA:	INV.	MAT.	DIA.	INV.	MAT.	DIA.	INV.	MAT.	DIA.	INV.	MAT.	DIA.	INV.	MAT.	DIA.	INV.	MAT.	DIA.	INV.	MAT.	DIA.	INV.	MAT.	DIA.	INV.	MAT.	DIA.	INV.	MAT.	DIA.	INV.	MAT.	DIA.	INV.	MAT.	DIA.
INLET PIPE 1	N/A			N/A			N/A			N/A			N/A			N/A			N/A			239.59		12 IN	N/A			N/A			N/A			229.50		12 IN
INLET PIPE 2	N/A			N/A			N/A			N/A			N/A			N/A			N/A			239.59		12 IN	N/A			N/A			N/A			N/A		
OUTLET PIPE	242.89	E	12 IN	258.58	D	12 IN	261.84	N/A	12 IN	265.81	E	12 IN	265.03	N/A	12 IN	257.63	F	12 IN	250.24	F	12 IN	237.79	N/A	12 IN	223.09	D	12 IN	223.83	F	12 IN	224.13	N/A	12 IN	230.22	N/A	12 IN

CONTECH STORMFILTER SITE SPECIFIC DATA REQUIREMENTS TABLE

NOTES:
1. OUTLET CAPACITY: 100-YEAR DEVELOPED PEAK FLOW.
2. METAL PARTS: CORROSION-RESISTANT. STAINLESS STEEL OR ALUMINIZED STEEL.
3. FRAME AND LADDER OR STEPS OFFSET SO:
   3.A. CLEANOUT GATE IS NOT VISIBLE FROM TOP.
   3.B. CLIMB-DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE.
   3.C. FRAME IS CLEAR OF CURB.
4. PROVIDE AT LEAST ONE 3" X 0.090 GAGE SUPPORT BRACKET ANCHORED TO CONCRETE WALL (MAXIMUM 3'-0" VERTICAL SPACING).
5. LOCATE ELBOW RESTRICTOR(S) AS NECESSARY TO PROVIDE MINIMUM CLEARANCE AS SHOWN.
6. LOCATE ADDITIONAL LADDER RUNGS IN STRUCTURES USED AS ACCESS TO TANKS TO ALLOW ACCESS WHEN CATCH BASIN IS FILLED WITH WATER.
7. TEE SHALL BE CONSTRUCTED OF ALUMINUM CMP OR ALUMINIZED STEEL CMP MEETING WSDOT/APWA STANDARDS

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PROJECT ENGINEER	DATE

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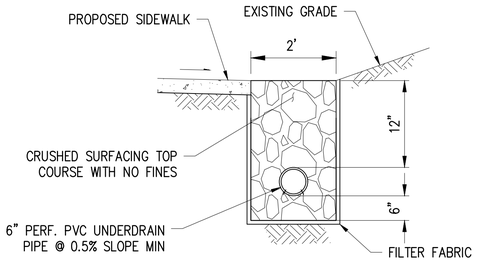
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3RD AVENUE NE RECONSTRUCTION

STORMWATER DETAILS

KPG PROJECT No. 21078

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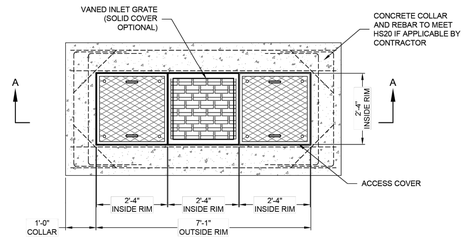
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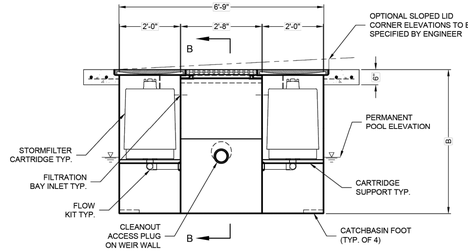
NOTES:
1. CONNECT UNDERDRAIN PIPE TO DOWNSTREAM CB WHERE SHOWN IN THE PLANS.
2. CONTRACTOR MAY ADJUST THE IE OF DOWNSTREAM CONNECTION TO BE SO LONG AS 0.5% MIN SLOPE AND 3.0' MIN COVER BENEATH TRAVEL LANE IS PROVIDED.

SIDEWALK FRENCH DRAIN DETAIL

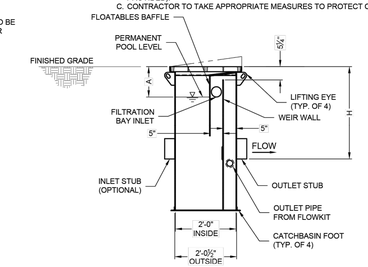
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PLAN VIEW



SECTION A-A



SECTION B-B

STORMFILTER STEEL CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 2 CARTRIDGE CATCHBASIN HAS A MAXIMUM OF TWO CARTRIDGES. SYSTEM IS SHOWN WITH A 27" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL.
PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"			18"			18" DEEP		
RECOMMENDED HYDRAULIC DROP (H)	3.05'			2.5'			3.3'		
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf
CARTRIDGE FLOW RATE (gpm)	22.5	18.79	11.25	15	12.53	7.5	15	12.53	7.5
PEAK HYDRAULIC CAPACITY	1.0			1.0			2.25		
INLET PERMANENT POOL LEVEL (A)	1'-0"			1'-0"			2'-0"		
OVERALL STRUCTURE HEIGHT (B)	4'-9"			3'-9"			4'-9"		

* 1.67 gpm/sf SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE OR WWW.CONTECHES.COM
3. STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
4. INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
5. MANUFACTURER TO APPLY A SURFACE BEAD WELD IN THE SHAPE OF THE LETTER "O" ABOVE THE OUTLET PIPE STUB ON THE EXTERIOR SURFACE OF THE STEEL SFCB.
6. STORMFILTER CATCHBASIN EQUIPPED WITH 4 INCH (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8 INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15 INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLEXIBLE COUPLING BY CONTRACTOR.
7. STEEL STRUCTURE TO BE MANUFACTURED OF 1/4 INCH STEEL PLATE. CASTINGS SHALL MEET AASHTO M306 LOAD RATING. TO MEET HS20 LOAD RATING ON STRUCTURE, A CONCRETE COLLAR IS REQUIRED. WHEN REQUIRED, CONCRETE COLLAR WITH #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
8. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7 INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
9. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

2-CARTRIDGE DEEP CATCHBASIN STORMFILTER DATA

STRUCTURE ID	XXX
WATER QUALITY FLOW RATE (cfs)	X.XX
PEAK FLOW RATE (<1.8 cfs)	X.XX
RETURN PERIOD OF PEAK FLOW (yrs)	XXX
CARTRIDGE FLOW RATE (gpm)	XX
MEDIA TYPE (PERLITE, ZPG, PSORB)	XXX/XX
RIM ELEVATION	XXX.XX'

PIPE DATA:	I.E.	DIAMETER
INLET STUB	XXX.XX'	XX"
OUTLET STUB	XXX.XX'	XX"

CONFIGURATIONS

SLOPED LID	YES/NO
SOLID COVER	YES/NO
NOTES/SPECIAL REQUIREMENTS:	

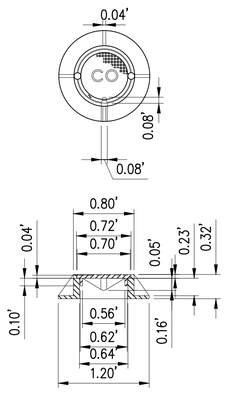
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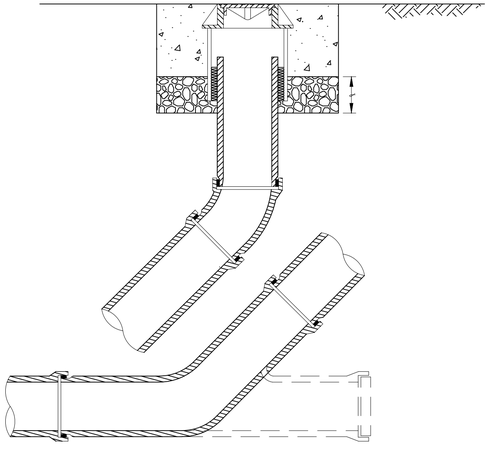
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www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-526-3999 513-645-7000 513-645-7993 FAX

2 CARTRIDGE CATCHBASIN STORMFILTER STANDARD DETAIL

CONTECH STEEL STORMFILTER CATCH BASIN DETAIL - DOUBLE

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CLEANOUT DETAIL

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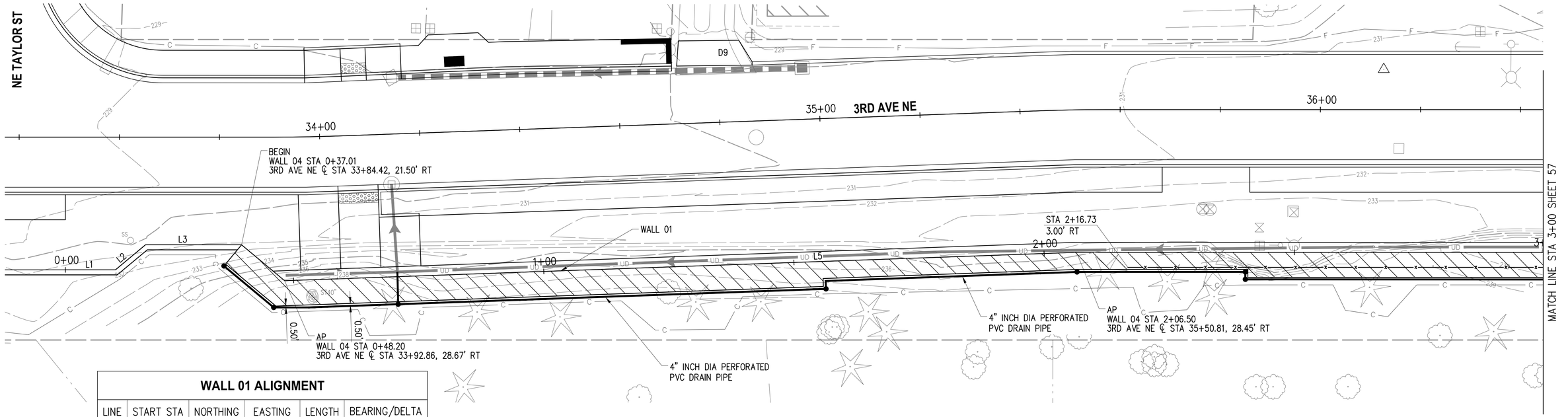
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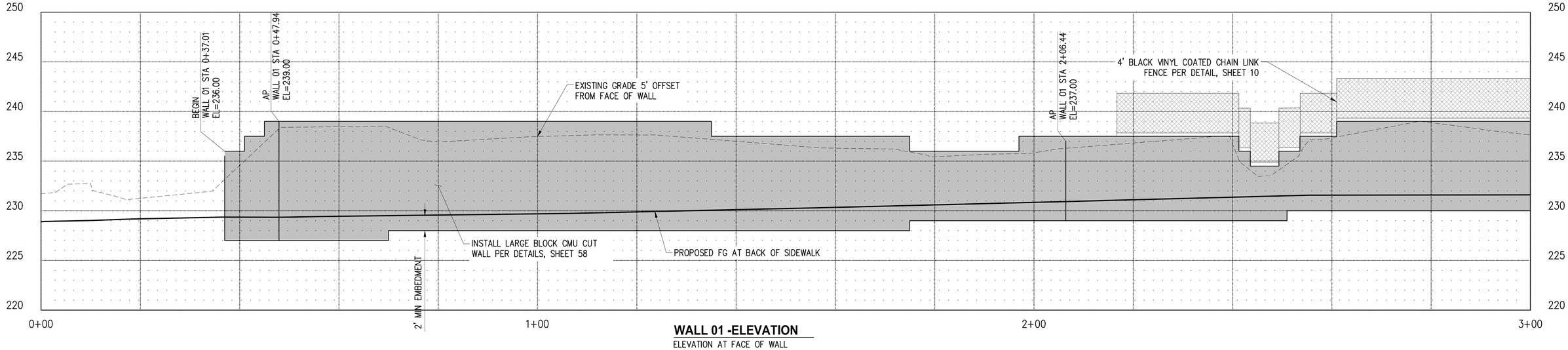
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WALL 01 ALIGNMENT					
LINE	START STA	NORTHING	EASTING	LENGTH	BEARING/DELTA
L1	0+00.00	270682.10	1358228.71	10.00'	N 0°36'35" W
L2	0+10.00	270692.09	1358228.61	7.81'	N 40°24'55" W
L3	0+17.81	270698.04	1358223.54	19.20'	N 0°36'35" W
L5	0+48.20	270725.92	1358230.41	158.30'	N 2°39'42" W
L6	2+06.50	270884.04	1358223.06	261.24'	N 0°36'33" W



WALL 01 -ELEVATION
ELEVATION AT FACE OF WALL

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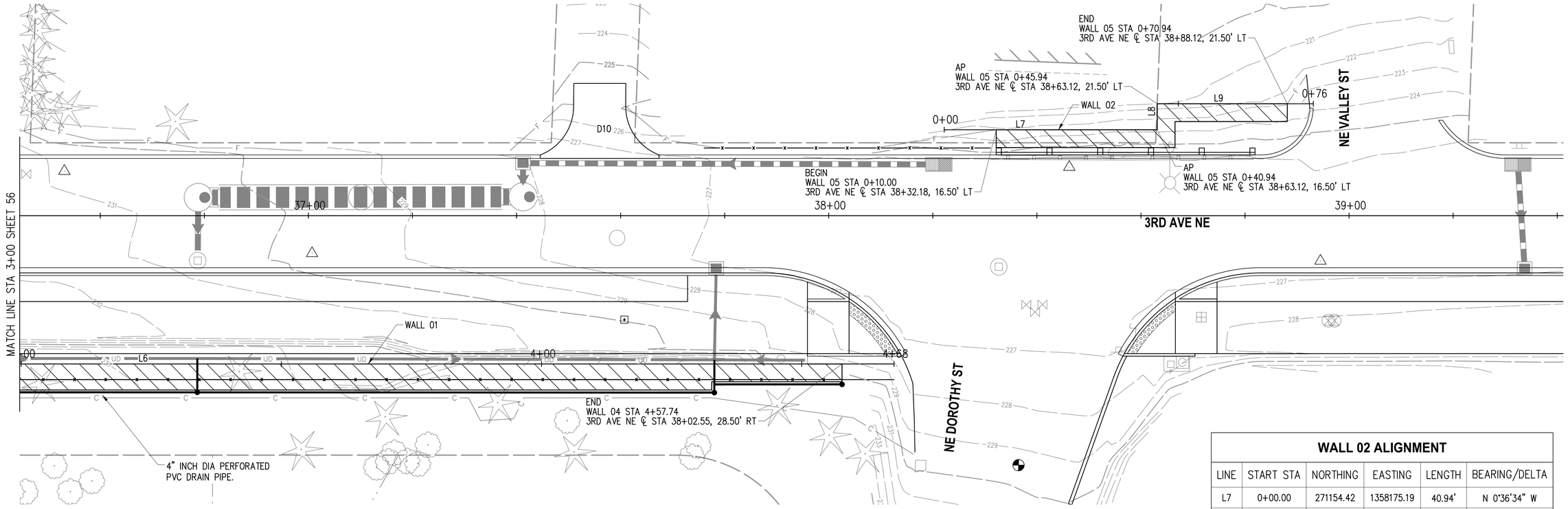
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RETAINING WALL PLAN & ELEVATION
WALL 01

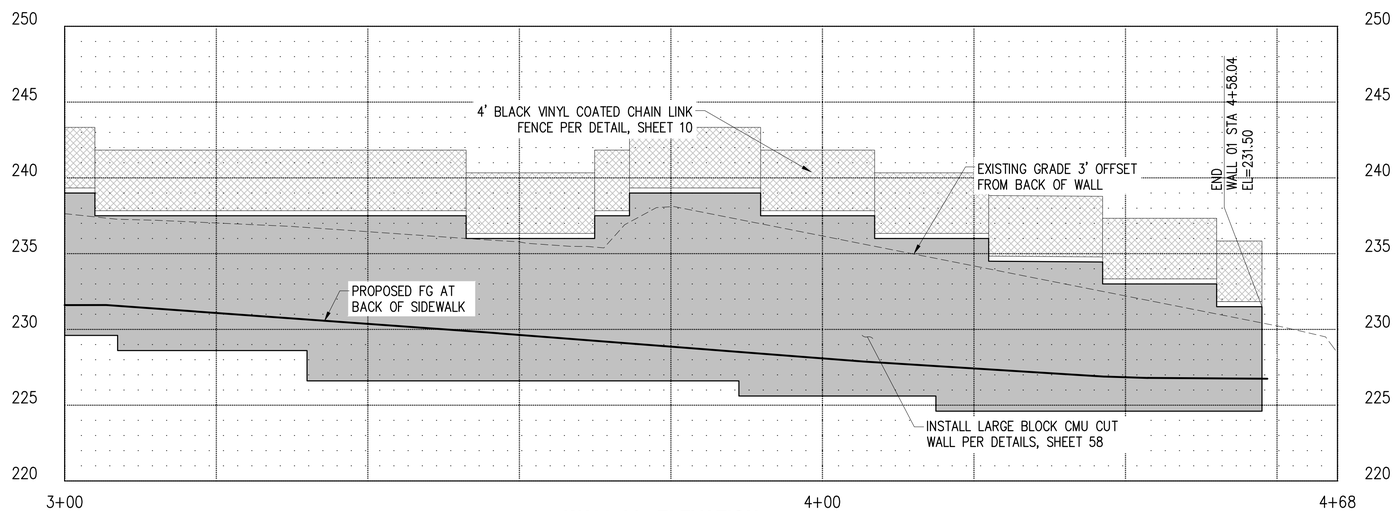
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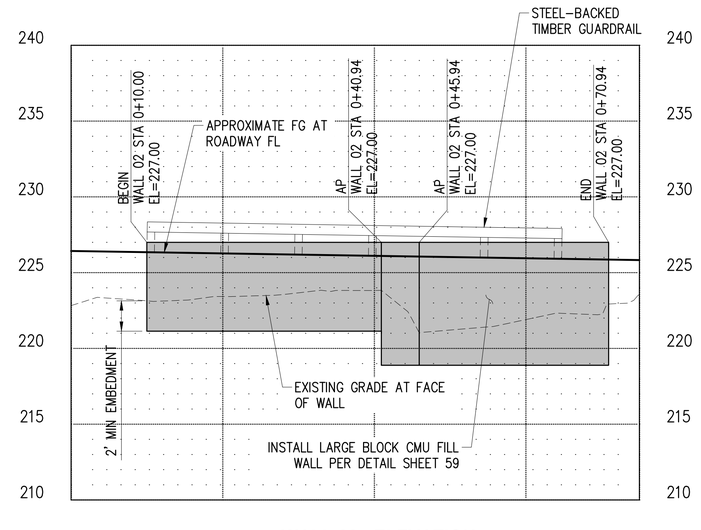


WALL 02 ALIGNMENT					
LINE	START STA	NORTHING	EASTING	LENGTH	BEARING/DELTA
L7	0+00.00	271154.42	1358175.19	40.94'	N 0°36'34" W
L8	0+40.94	271195.36	1358174.75	5.00'	S 89°23'26" W
L9	0+45.94	271195.30	1358169.75	30.00'	N 0°36'34" W



WALL 01 - ELEVATION

ELEVATION AT FACE OF WALL



WALL 02 - ELEVATION

ELEVATION AT FACE OF WALL

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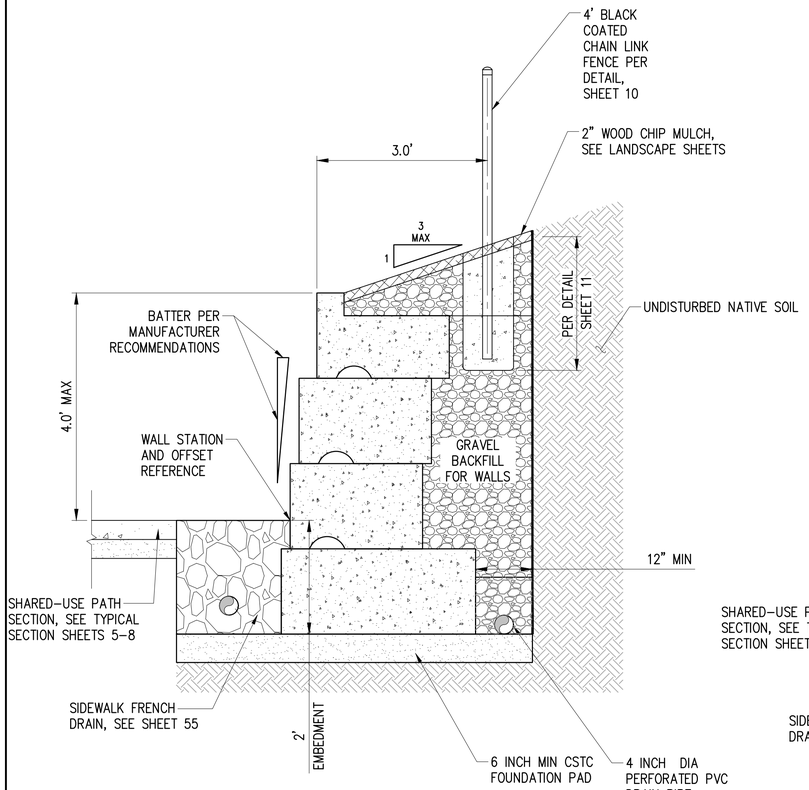
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RETAINING WALL PLAN & ELEVATION
WALL 01 & 02

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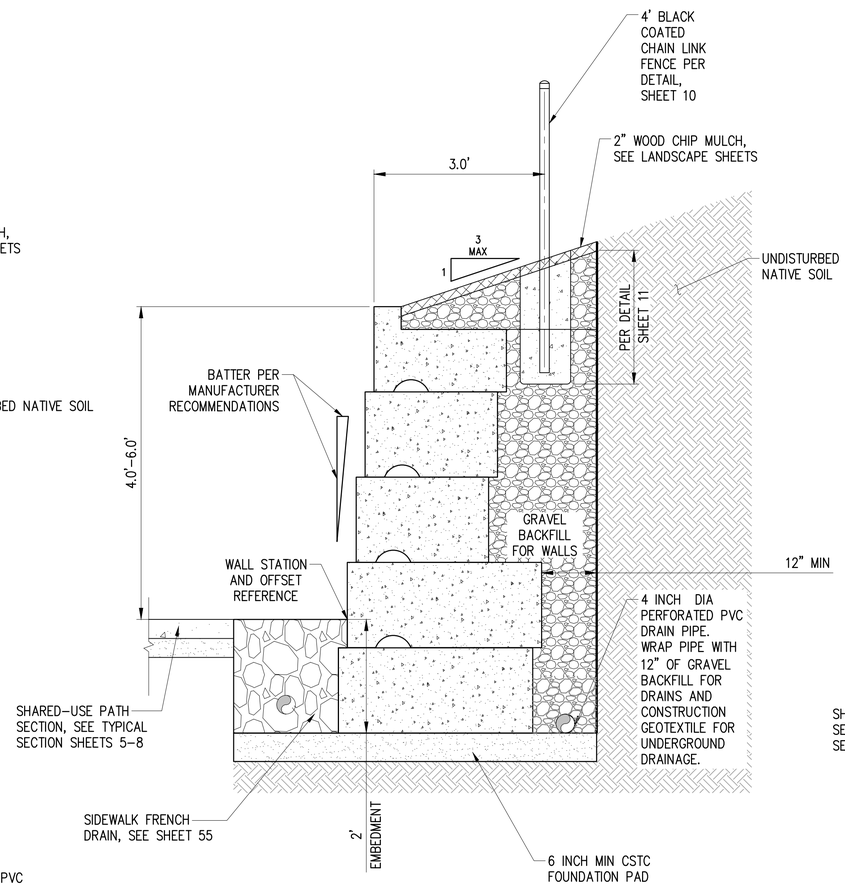
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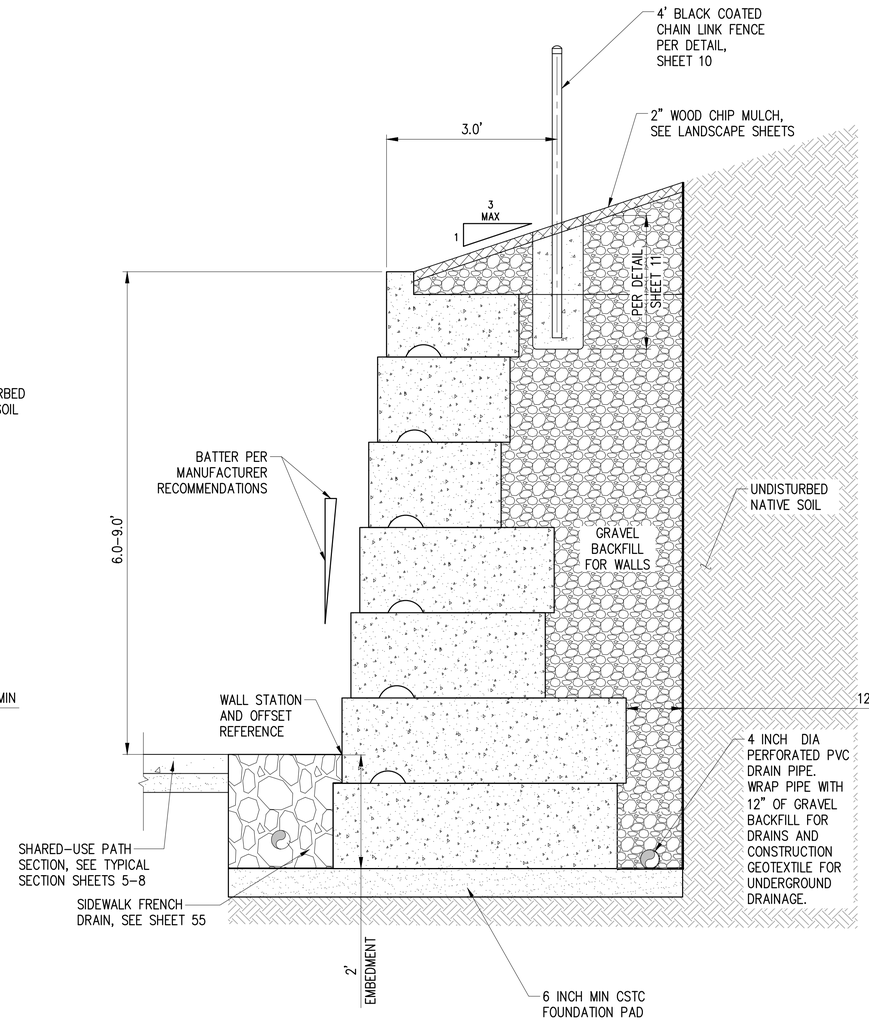
LARGE BLOCK CMU CUT WALL SECTION

WALL 01: UP TO 4' EXPOSED HEIGHT
NTS



LARGE BLOCK CMU CUT WALL SECTION

WALL 01: 4' TO 6' EXPOSED HEIGHT
NTS



LARGE BLOCK CMU CUT WALL SECTION

WALL 01: 6' TO 9' EXPOSED HEIGHT
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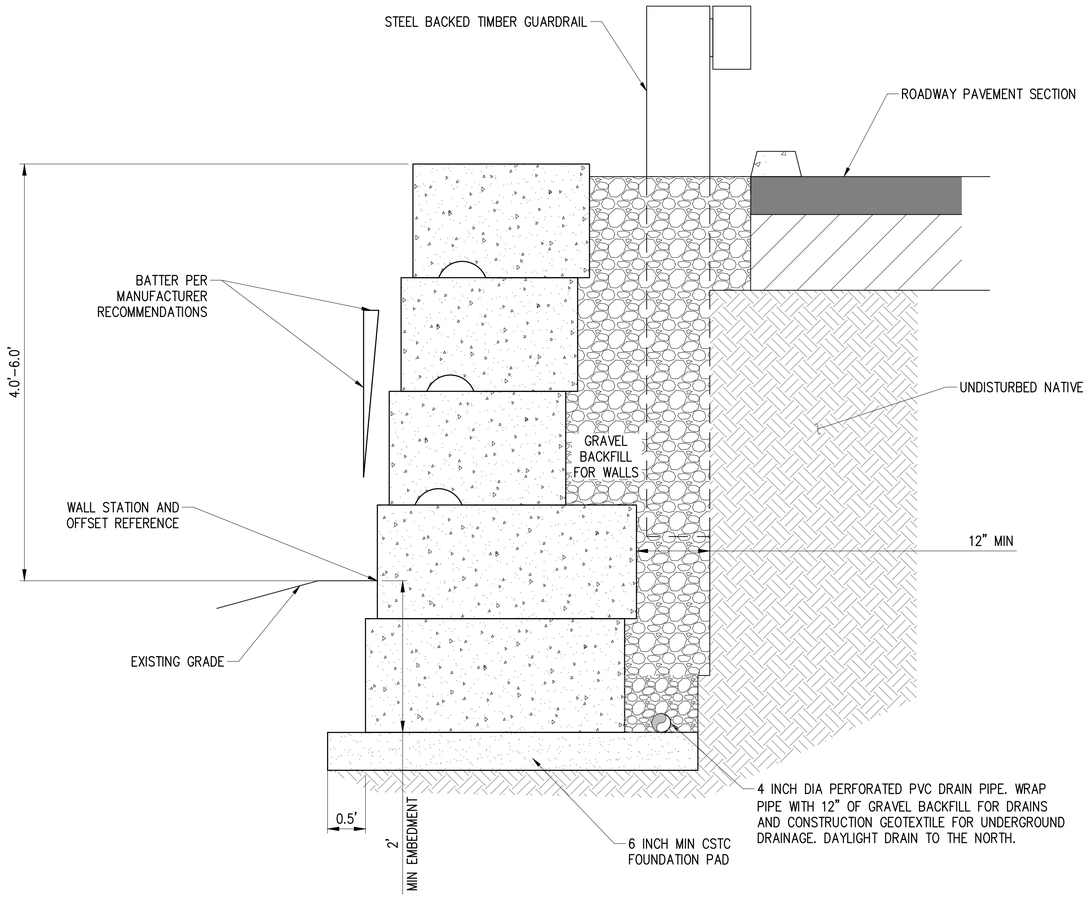
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RETAINING WALL DETAILS

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WALL 02: LARGE BLOCK CMU WALL FILL SECTION

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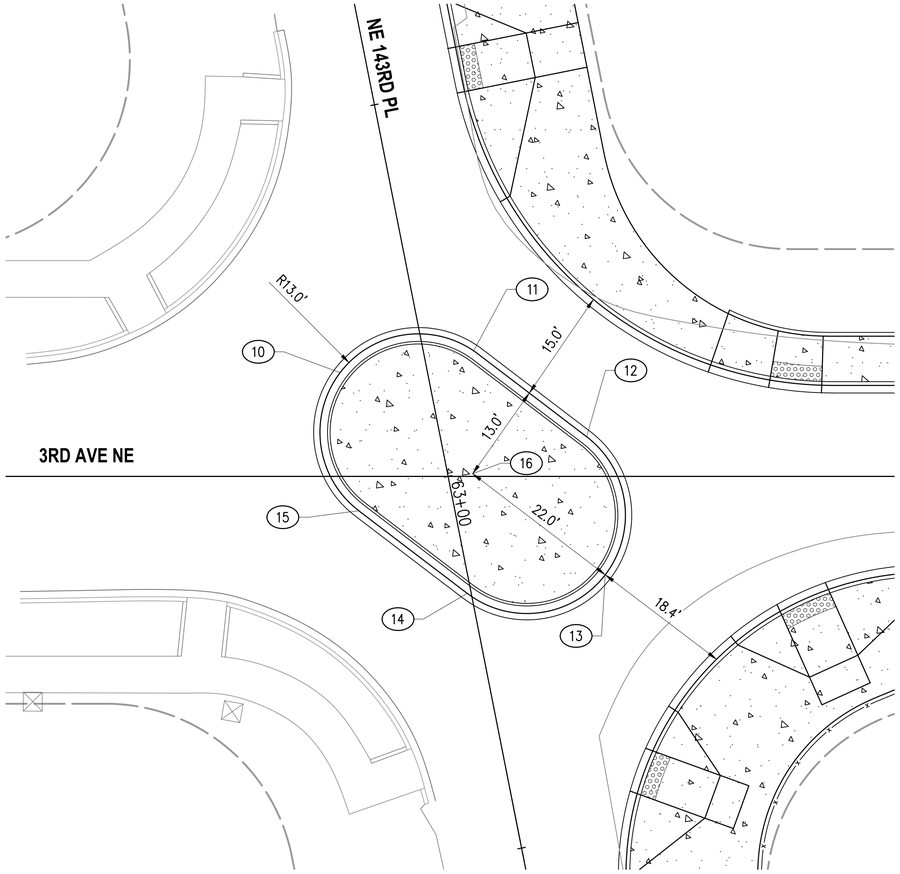
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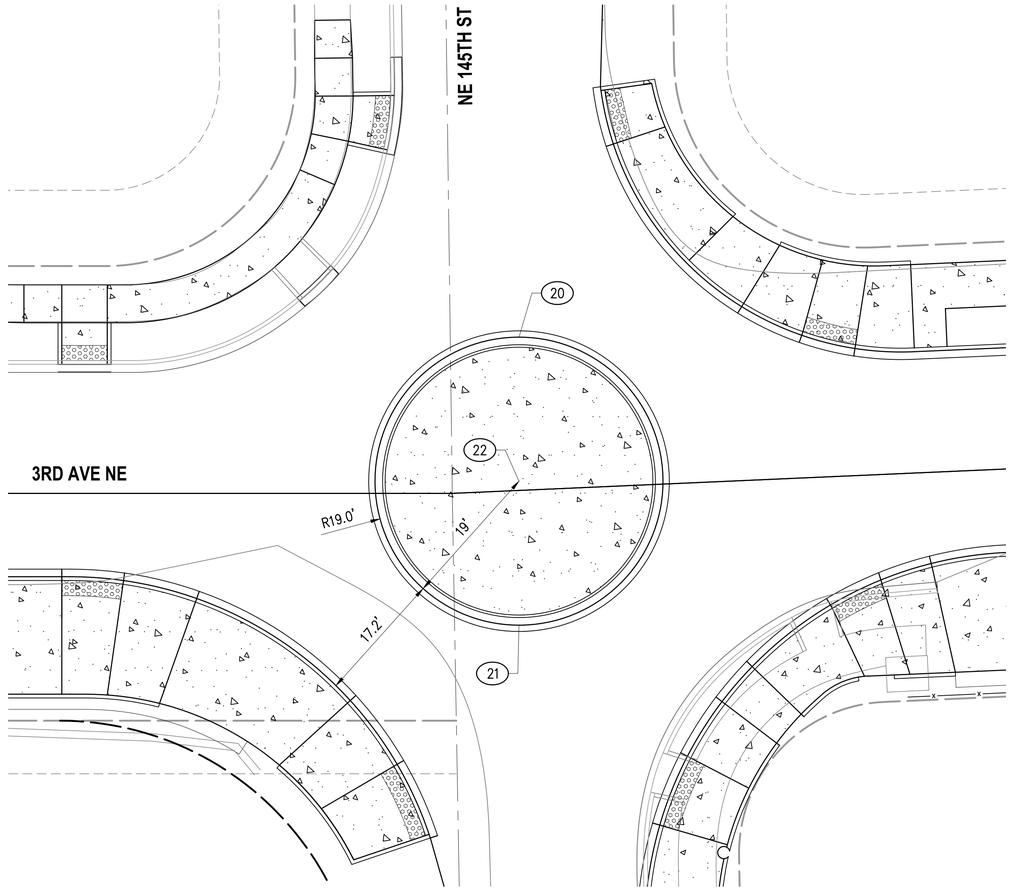
RETAINING WALL DETAILS

KPG PROJECT No. 21078

SHT 59 OF 119

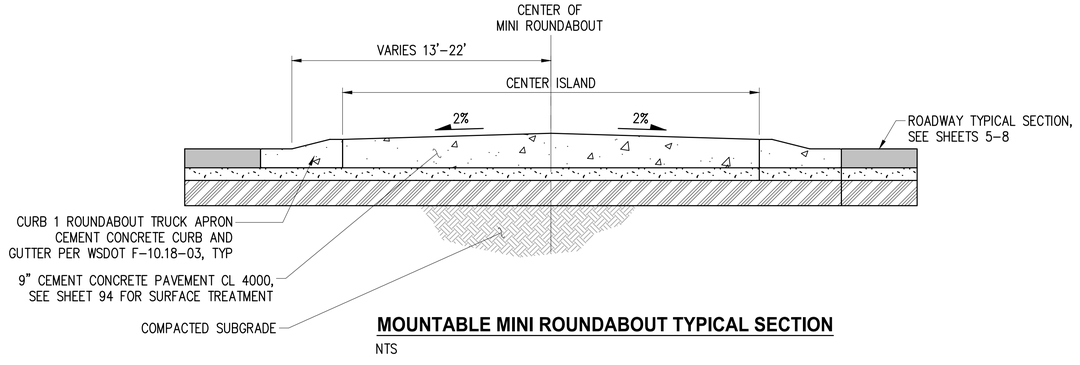


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POINT TABLE			
NUMBER	STATION	OFFSET	DESCRIPTION
10	9+85.74	13.69' LT	MIDPOINT CURVE
11	10+03.37	16.57' LT	PT
12	10+18.28	5.24' LT	PC, R=13'
13	10+20.74	12.98' RT	MIDPOINT CURVE
14	10+02.52	15.44' RT	PT
15	9+88.20	4.53' RT	PC, R=13'
16	10+03.24	0.36' LT	CENTER OF MINI ROUNDABOUT



MOUNTABLE MINI ROUNDABOUT TYPICAL SECTION
NTS

POINT TABLE			
NUMBER	STATION	OFFSET	DESCRIPTION
20	19+46.33	20.20' LT	CONTROL POINT, R=19'
21	19+44.66	17.76' RT	CONTROL POINT, R=19'
22	19+45.50	1.22' LT	CENTER OF MINI ROUNDABOUT

NO.	DATE	BY	APPR.	REVISIONS

Approved By

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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FILENAME	
JRW	01/2025
DESIGNED BY	DATE
KAB	01/2025
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OBP	01/2025
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OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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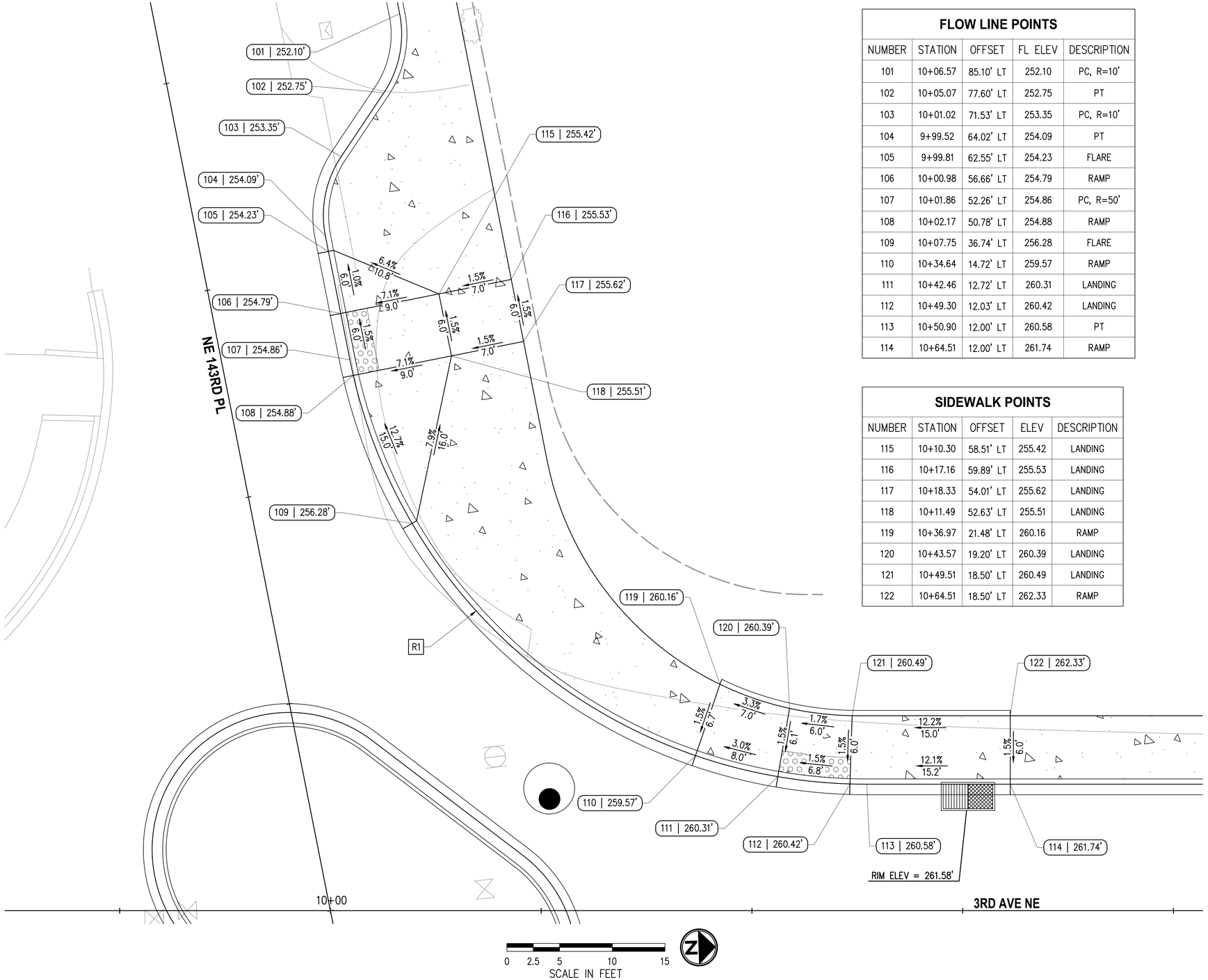
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

MINI ROUNDABOUT DETAILS

KPG PROJECT No. 21078

SHT 60 OF 119

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FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
101	10+06.57	85.10' LT	252.10	PC, R=10'
102	10+05.07	77.60' LT	252.75	PT
103	10+01.02	71.53' LT	253.35	PC, R=10'
104	9+99.52	64.02' LT	254.09	PT
105	9+99.81	62.55' LT	254.23	FLARE
106	10+00.98	56.66' LT	254.79	RAMP
107	10+01.86	52.26' LT	254.86	PC, R=50'
108	10+02.17	50.78' LT	254.88	RAMP
109	10+07.75	36.74' LT	256.28	FLARE
110	10+34.64	14.72' LT	259.57	RAMP
111	10+42.46	12.72' LT	260.31	LANDING
112	10+49.30	12.03' LT	260.42	LANDING
113	10+50.90	12.00' LT	260.58	PT
114	10+64.51	12.00' LT	261.74	RAMP

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
115	10+10.30	58.51' LT	255.42	LANDING
116	10+17.16	59.89' LT	255.53	LANDING
117	10+18.33	54.01' LT	255.62	LANDING
118	10+11.49	52.63' LT	255.51	LANDING
119	10+36.97	21.48' LT	260.16	RAMP
120	10+43.57	19.20' LT	260.39	LANDING
121	10+49.51	18.50' LT	260.49	LANDING
122	10+64.51	18.50' LT	262.33	RAMP

GENERAL NOTES

1. ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ANY GRADING MODIFICATIONS REQUIRED FOR ADA COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
2. ALL CASTINGS AND UTILITY COVERS LOCATED WITHIN THE PAR ARE ARE REQUIRED TO BE NON-SLIP.
3. USE RADIUS DETECTABLE WARNING SURFACE (DWS) WHERE APPLICABLE. DWS SHALL BE INSTALLED PER WSDOT STD PLAN F-45.10-03.

CURVE TABLE

##	DELTA	RADIUS	TANGENT	LENGTH

MAXIMUM EXTENTS FEASIBLE NOTES

THE SCOPE OF THIS PROJECT IS TO CONSTRUCT NEW ROADWAYS ALONG 3RD AVE NE. NEW CURB RAMPS WILL BE INSTALLED TO IMPROVE PEDESTRIAN CROSSINGS.

THE FLARE ON THE NORTH-SOUTH CURB RAMP ON THE NW CORNER OF 3RD & 143RD EXCEEDS 10%. THE FLARE SHALL BE 15' IN LENGTH.

THE RAMP ON THE EAST-WEST CURB RAMP ON THE NW CORNER OF 3RD & 143RD EXCEEDS 8.3%. THE RAMP SHALL BE 15' IN LENGTH.

LEGEND

- DETECTABLE WARNING SURFACE
- CEMENT CONCRETE
- ## | ##.## — POINT NUMBER | POINT ELEVATION

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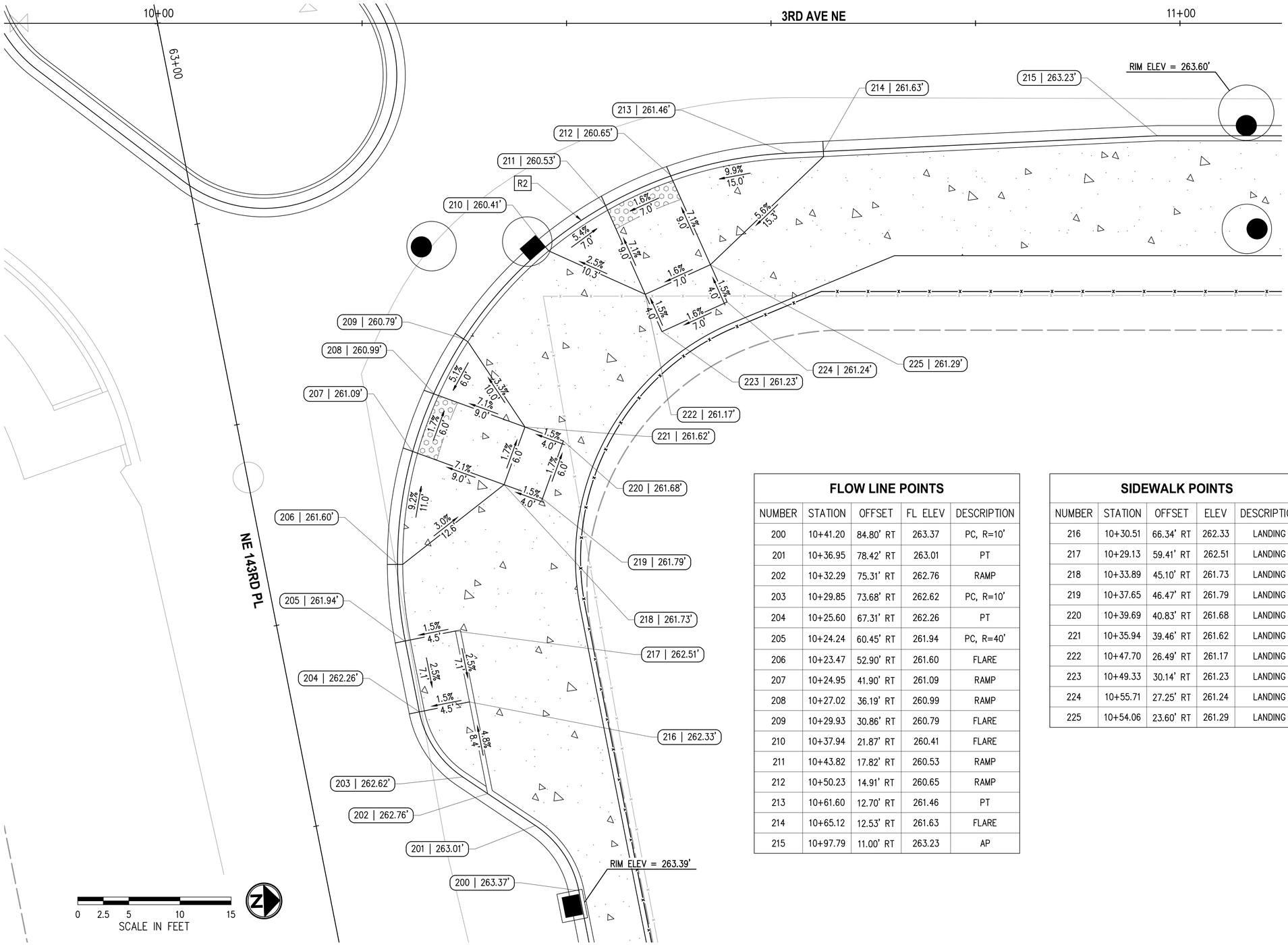
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CURB RAMP PLAN
NE 143RD PLACE
(WEST SIDE)

KPG PROJECT No. 21078 | SHT 61 OF 119

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CURVE TABLE

##	DELTA	RADIUS	TANGENT	LENGTH
R2	98°32'34"	40.00'	46.46'	68.80'

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
200	10+41.20	84.80' RT	263.37	PC, R=10'
201	10+36.95	78.42' RT	263.01	PT
202	10+32.29	75.31' RT	262.76	RAMP
203	10+29.85	73.68' RT	262.62	PC, R=10'
204	10+25.60	67.31' RT	262.26	PT
205	10+24.24	60.45' RT	261.94	PC, R=40'
206	10+23.47	52.90' RT	261.60	FLARE
207	10+24.95	41.90' RT	261.09	RAMP
208	10+27.02	36.19' RT	260.99	RAMP
209	10+29.93	30.86' RT	260.79	FLARE
210	10+37.94	21.87' RT	260.41	FLARE
211	10+43.82	17.82' RT	260.53	RAMP
212	10+50.23	14.91' RT	260.65	RAMP
213	10+61.60	12.70' RT	261.46	PT
214	10+65.12	12.53' RT	261.63	FLARE
215	10+97.79	11.00' RT	263.23	AP

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
216	10+30.51	66.34' RT	262.33	LANDING
217	10+29.13	59.41' RT	262.51	LANDING
218	10+33.89	45.10' RT	261.73	LANDING
219	10+37.65	46.47' RT	261.79	LANDING
220	10+39.69	40.83' RT	261.68	LANDING
221	10+35.94	39.46' RT	261.62	LANDING
222	10+47.70	26.49' RT	261.17	LANDING
223	10+49.33	30.14' RT	261.23	LANDING
224	10+55.71	27.25' RT	261.24	LANDING
225	10+54.06	23.60' RT	261.29	LANDING

LEGEND

- DETECTABLE WARNING SURFACE
- CEMENT CONCRETE
- ## | ##.##' POINT NUMBER | POINT ELEVATION

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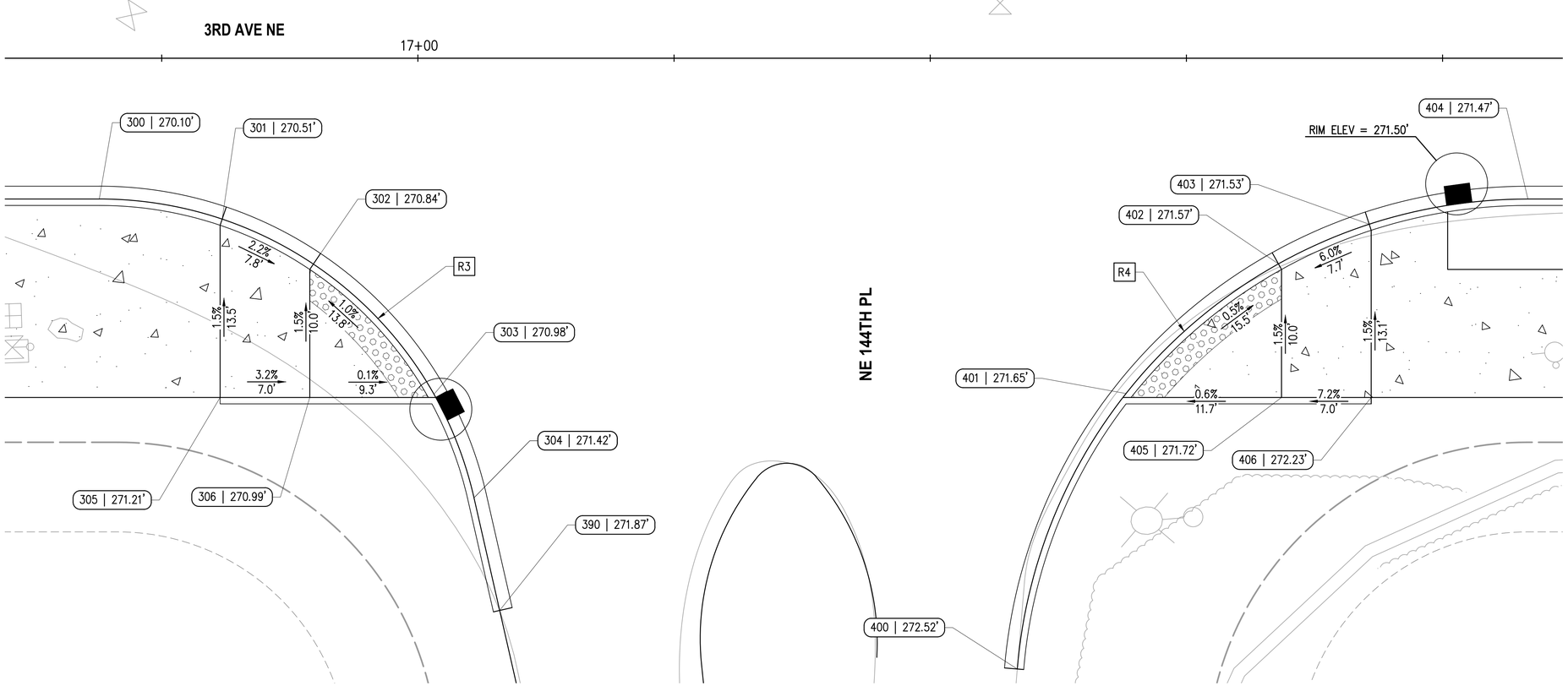
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CURB RAMP PLAN
NE 143RD PLACE
(EAST SIDE)

KPG PROJECT No. 21078 | SHT 62 OF 119

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GENERAL NOTES

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CURVE TABLE

##	DELTA	RADIUS	TANGENT	LENGTH
R3	77°09'58"	30.00'	23.93'	40.40'

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
400	17+46.80	47.71' RT	272.52	PC, R=40'
401	17+55.29	26.19' RT	271.65	LANDING
402	17+67.18	16.06' RT	271.57	LANDING
403	17+74.27	12.97' RT	271.53	RAMP
404	17+86.66	11.00' RT	271.47	PT

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
405	17+67.43	26.50' RT	271.72	LANDING
406	17+74.43	26.50' RT	272.23	RAMP

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
300	16+75.13	11.00' RT	270.10	PC, R=30'
301	16+84.72	12.57' RT	270.51	RAMP
302	16+91.84	16.08' RT	270.84	LANDING
303	17+01.26	26.25' RT	270.98	LANDING
304	17+04.38	34.34' RT	271.42	PT

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
305	16+84.56	26.50' RT	271.21	RAMP
306	16+91.56	26.50' RT	270.99	LANDING

LEGEND

- DETECTABLE WARNING SURFACE
- CEMENT CONCRETE
- ## | ##.## POINT NUMBER | POINT ELEVATION

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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

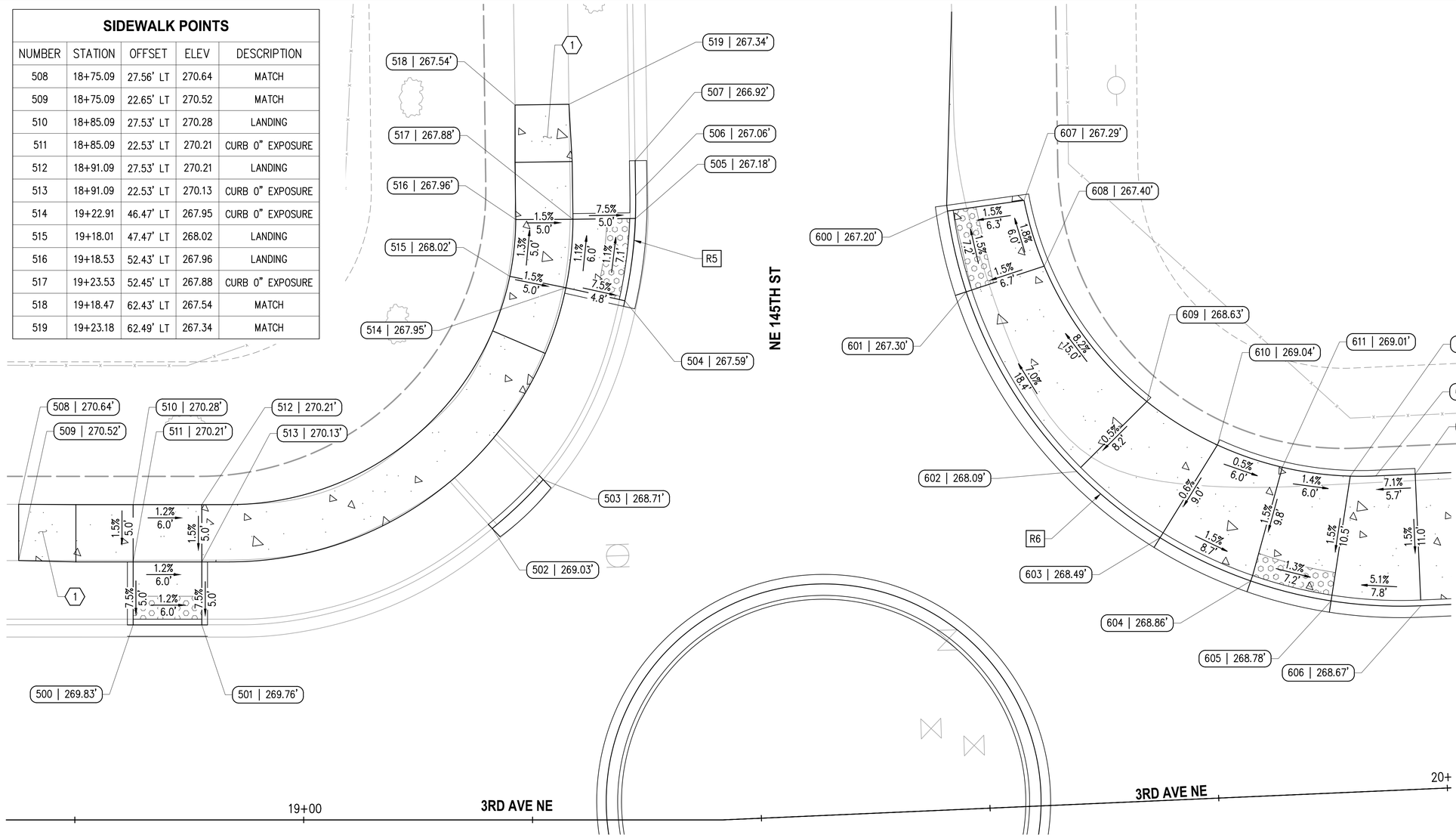
CURB RAMP PLAN
NE 144TH PLACE

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SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
508	18+75.09	27.56' LT	270.64	MATCH
509	18+75.09	22.65' LT	270.52	MATCH
510	18+85.09	27.53' LT	270.28	LANDING
511	18+85.09	22.53' LT	270.21	CURB 0" EXPOSURE
512	18+91.09	27.53' LT	270.21	LANDING
513	18+91.09	22.53' LT	270.13	CURB 0" EXPOSURE
514	19+22.91	46.47' LT	267.95	CURB 0" EXPOSURE
515	19+18.01	47.47' LT	268.02	LANDING
516	19+18.53	52.43' LT	267.96	LANDING
517	19+23.53	52.45' LT	267.88	CURB 0" EXPOSURE
518	19+18.47	62.43' LT	267.54	MATCH
519	19+23.18	62.49' LT	267.34	MATCH



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CONSTRUCTION NOTES

(1) CONSTRUCT CEMENT CONC TRANSITION PANEL, MAY NOT BE ADA COMPLIANT.

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
600	19+58.57	52.26' LT	267.20	CURB 6" EXPOSURE
601	19+59.90	45.13' LT	267.30	LANDING
602	19+68.85	29.03' LT	268.09	RAMP
603	19+75.88	22.94' LT	268.49	RAMP
604	19+83.63	18.82' LT	268.86	LANDING
605	19+90.57	16.77' LT	268.78	LANDING
606	19+98.40	16.00' LT	268.67	RAMP, PT

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
500	18+85.09	17.03' LT	269.83	RAMP, CURB 6" EXPOSURE
501	18+91.09	17.03' LT	269.76	RAMP, CURB 6" EXPOSURE
502	19+16.47	25.45' LT	269.03	MATCH
503	19+20.92	29.72' LT	268.71	MATCH
504	19+28.06	45.34' LT	267.59	RAMP, PC, R=40', CURB 6" EXPOSURE
505	19+28.98	52.50' LT	267.18	RAMP, CURB 6" EXPOSURE
506	19+29.00	54.52' LT	267.06	PT
507	19+28.96	57.57' LT	266.92	MATCH

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
607	19+65.30	52.89' LT	267.29	LANDING, CURB 6" EXPOSURE
608	19+66.81	47.08' LT	267.40	LANDING, CURB 6" EXPOSURE
609	19+75.25	34.87' LT	268.63	RAMP, CURB 0" EXPOSURE
610	19+81.24	30.81' LT	269.04	RAMP, CURB 0" EXPOSURE
611	19+86.82	28.62' LT	269.01	LANDING, CURB 6" EXPOSURE
612	19+92.72	27.58' LT	268.93	LANDING, CURB 6" EXPOSURE
613	19+94.94	27.50' LT	269.09	PT
614	19+98.40	27.50' LT	269.33	RAMP, CURB 0" EXPOSURE

0 2.5 5 10 15
SCALE IN FEET

CURVE TABLE

##	DELTA	RADIUS	TANGENT	LENGTH
R5	13°14'49"	40.00'	4.64'	9.25'

LEGEND

- DETECTABLE WARNING SURFACE
- CEMENT CONCRETE
- ## | ##.## — POINT NUMBER | POINT ELEVATION

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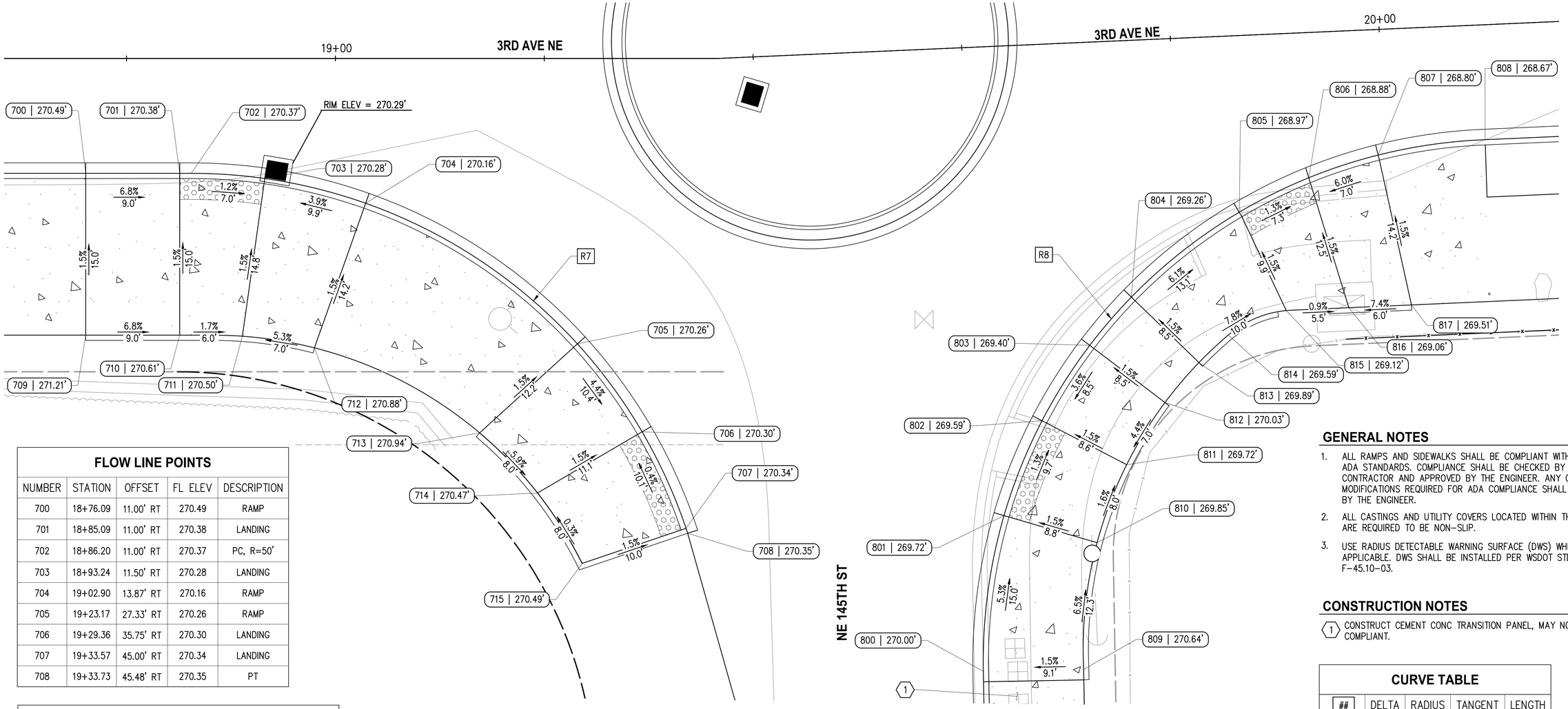
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CURB RAMP PLAN
NE 145TH STREET
(WEST SIDE)

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FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
700	18+76.09	11.00' RT	270.49	RAMP
701	18+85.09	11.00' RT	270.38	LANDING
702	18+86.20	11.00' RT	270.37	PC, R=50'
703	18+93.24	11.50' RT	270.28	LANDING
704	19+02.90	13.87' RT	270.16	RAMP
705	19+23.17	27.33' RT	270.26	RAMP
706	19+29.36	35.75' RT	270.30	LANDING
707	19+33.57	45.00' RT	270.34	LANDING
708	19+33.73	45.48' RT	270.35	PT

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
709	18+76.09	26.50' RT	271.21	RAMP, CURB 0" EXPOSURE
710	18+85.09	26.50' RT	270.61	LANDING, CURB 6" EXPOSURE
711	18+91.09	26.60' RT	270.50	LANDING, CURB 6" EXPOSURE
712	18+98.00	27.71' RT	270.88	RAMP, CURB 0" EXPOSURE
713	19+13.81	35.86' RT	270.94	RAMP, CURB 0" EXPOSURE
714	19+19.35	41.61' RT	270.47	LANDING, CURB 6" EXPOSURE
715	19+23.63	48.36' RT	270.49	LANDING, CURB 6" EXPOSURE

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
800	19+59.44	59.75' RT	270.00	PC, R=50'
801	19+62.07	44.94' RT	269.72	LANDING
802	19+66.11	36.02' RT	269.59	LANDING
803	19+70.99	29.01' RT	269.40	RAMP
804	19+75.17	24.57' RT	269.26	RAMP
805	19+85.85	16.90' RT	268.97	LANDING
806	19+92.64	13.90' RT	268.88	LANDING
807	19+99.38	12.02' RT	268.80	RAMP
808	20+09.67	11.00' RT	268.67	PT

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
809	19+69.04	59.99' RT	270.64	BOSW, 0" EXPOSURE
810	19+70.86	47.92' RT	269.85	LANDING, 6" EXPOSURE
811	19+74.02	40.59' RT	269.72	LANDING, 6" EXPOSURE
812	19+77.94	34.80' RT	270.03	RAMP, 0" EXPOSURE
813	19+81.35	31.13' RT	269.89	RAMP, 0" EXPOSURE
814	19+84.29	28.61' RT	269.59	PC, R=10'
815	19+89.93	26.51' RT	269.12	LANDING, PT
816	19+95.93	26.50' RT	269.06	LANDING
817	20+01.93	26.50' RT	269.51	RAMP, 0" EXPOSURE

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CURVE TABLE

##	DELTA	RADIUS	TANGENT	LENGTH

LEGEND

DETECTABLE WARNING SURFACE

CEMENT CONCRETE

| ##.## POINT NUMBER | POINT ELEVATION

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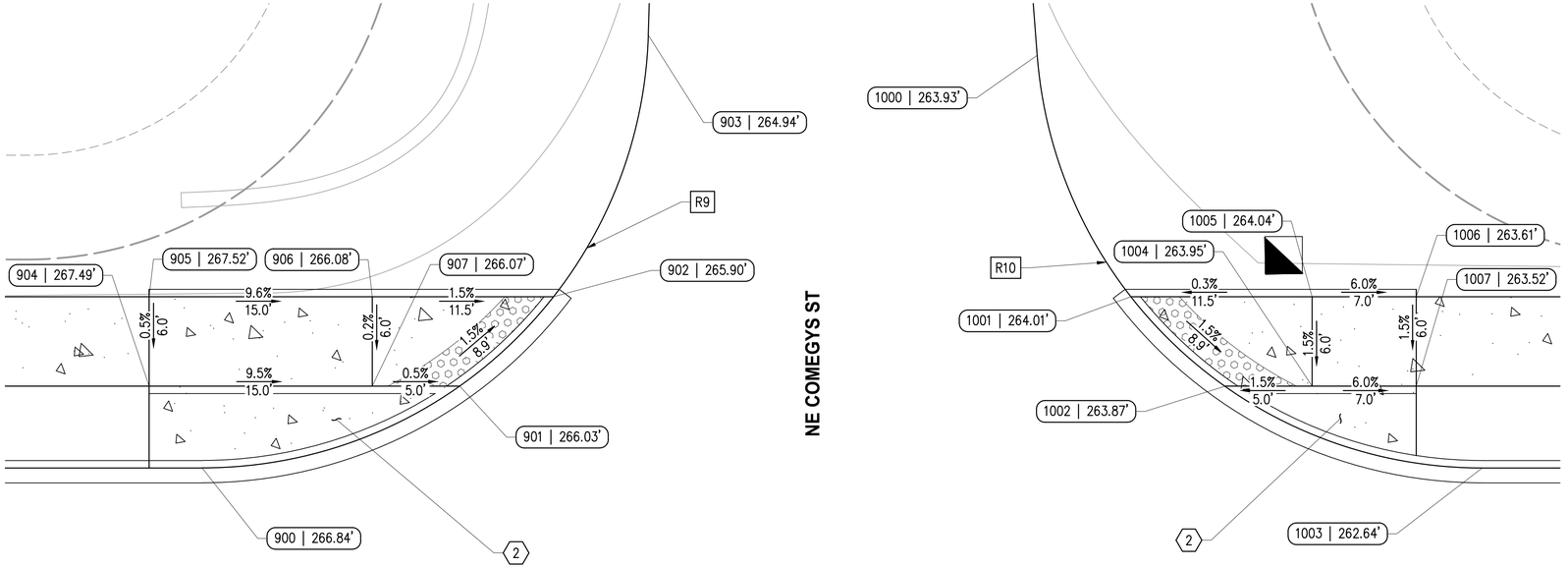
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CURB RAMP PLAN
NE 145TH STREET
(EAST SIDE)

KPG PROJECT No. 21078 | SHT 65 OF 119

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3RD AVE NE

21+00

0 2.5 5 10 15

SCALE IN FEET

GENERAL NOTES

1. ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ANY GRADING MODIFICATIONS REQUIRED FOR ADA COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
2. ALL CASTINGS AND UTILITY COVERS LOCATED WITHIN THE PAR ARE ARE REQUIRED TO BE NON-SLIP.
3. USE RADIUS DETECTABLE WARNING SURFACE (DWS) WHERE APPLICABLE. DWS SHALL BE INSTALLED PER WSDOT STD PLAN F-45.10-03.

CURVE TABLE

##	DELTA	RADIUS	TANGENT	LENGTH
R9	88°13'30"	30.00'	29.08'	46.19'
R10	85°36'57"	30.00'	27.79'	44.83'

CONSTRUCTION NOTES

(2) CONSTRUCT 5" CEMENT CONCRETE SIDEWALK OVER 6" CSTC.

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
900	20+90.95	16.00' LT	266.84	PC, R=30'
901	21+08.26	21.50' LT	266.03	LANDING, PED CURB 6" EXPOSURE
902	21+14.56	27.50' LT	265.90	LANDING, END CURB & GUTTER, PED CURB 6" EXPOSURE
903	21+20.94	45.07' LT	264.94	PT

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
904	20+87.38	21.50' LT	267.49	RAMP, PED CURB 0" EXPOSURE
905	20+87.38	27.50' LT	267.52	RAMP, PED CURB 0" EXPOSURE
906	21+02.38	27.50' LT	266.08	LANDING, PED CURB 6" EXPOSURE
907	21+02.38	21.50' LT	266.07	LANDING, PED CURB 6" EXPOSURE

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
1000	21+47.08	43.71' LT	263.93	PC, R=30'
1001	21+53.37	27.50' LT	264.01	LANDING, END CURB & GUTTER, PED CURB 6" EXPOSURE
1002	21+59.72	21.50' LT	263.87	LANDING, PED CURB 6" EXPOSURE
1003	21+76.99	16.00' LT	262.64	PT

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
1004	21+65.56	21.50' LT	263.95	LANDING, PED CURB 6" EXPOSURE
1005	21+65.56	27.50' LT	264.04	LANDING, PED CURB 6" EXPOSURE
1006	21+72.56	27.50' LT	263.61	RAMP, PED CURB 0" EXPOSURE
1007	21+72.56	21.50' LT	263.52	RAMP, PED CURB 0" EXPOSURE

LEGEND

DETECTABLE WARNING SURFACE

CEMENT CONCRETE

##|##.## POINT NUMBER | POINT ELEVATION

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

21078INT02.dwg
FILENAME
JRW 01/2025
DESIGNED BY DATE
KAB 01/2025
DRAWN BY DATE
OBP 01/2025
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OLIVIA B. PARASCHIV STATE OF WASHINGTON 41380 REGISTERED PROFESSIONAL ENGINEER

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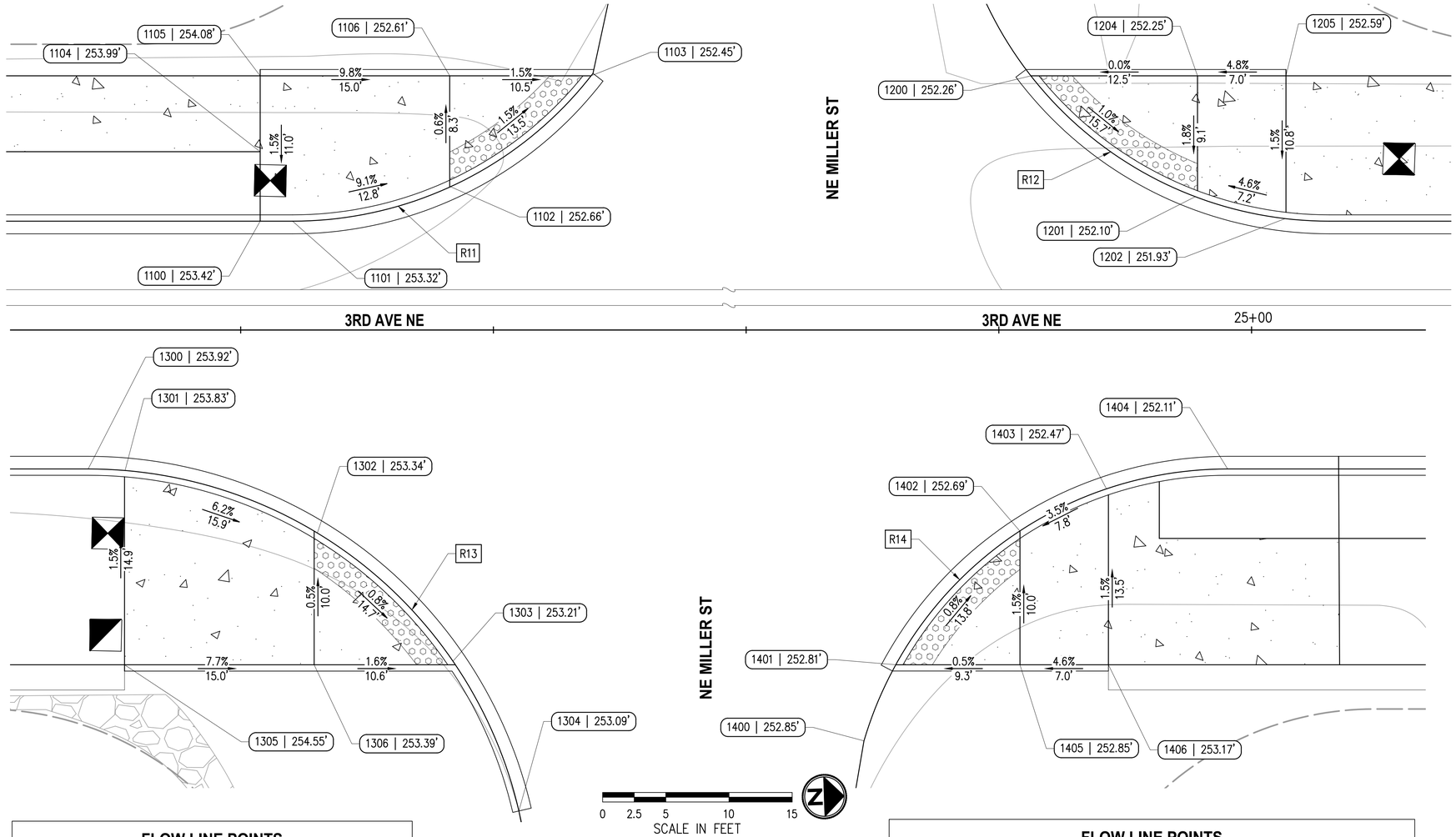
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CURB RAMP PLAN
NE COMEGYS STREET

KPG PROJECT No. 21078

SHT 66 OF 119

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FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
1200	24+82.54	27.50' LT	252.26	LANDING, BEGIN CURB & GUTTER, CURB 6" EXPOSURE
1201	24+95.54	17.94' LT	252.10	LANDING
1202	25+02.66	16.20' LT	251.93	RAMP
1203	25+06.15	16.00' LT	251.77	PT

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
1204	24+95.72	27.50' LT	252.25	LANDING
1205	25+02.72	27.50' LT	252.59	RAMP, CURB 0" EXPOSURE

GENERAL NOTES

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3. USE RADIUS DETECTABLE WARNING SURFACE (DWS) WHERE APPLICABLE. DWS SHALL BE INSTALLED PER WSDOT STD PLAN F-45.10-03.

MAXIMUM EXTENTS FEASIBLE NOTES

THE SCOPE OF THIS PROJECT IS TO CONSTRUCT NEW ROADWAYS ALONG 3RD AVE NE. NEW CURB RAMPS WILL BE INSTALLED TO IMPROVE PEDESTRIAN CROSSINGS.

THE NORTH-SOUTH CURB RAMP ON THE SW CORNER OF 3RD & MILLER EXCEEDS 8.3%. THE RAMP SHALL BE 15' IN LENGTH.

CURVE TABLE

##	DELTA	RADIUS	TANGENT	LENGTH
R11	52°23'54"	30.00'	14.76'	27.44'
R12	91°46'30"	30.00'	30.94'	48.05'
R13	72°06'54"	35.00'	25.48'	44.05'
R14	76°57'13"	30.11'	23.93'	40.44'

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
1300	24+07.93	11.00' RT	253.92	PC, R=35'
1301	24+10.85	11.12' RT	253.83	RAMP
1302	24+26.07	16.07' RT	253.34	LANDING CURB 6" EXPOSURE
1303	24+36.80	26.22' RT	253.21	LANDING CURB 6" EXPOSURE
1304	24+42.02	38.07' RT	253.09	PT

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
1305	24+10.81	26.50' RT	254.55	CURB 0" EXPOSURE
1306	24+25.81	26.50' RT	253.39	LANDING CURB 6" EXPOSURE

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
1100	24+21.54	16.00' LT	253.42	RAMP
1101	24+24.11	16.00' LT	253.32	PC, R=30'
1102	24+36.61	18.73' LT	252.66	LANDING
1103	24+47.73	27.50' LT	252.45	LANDING, END CURB & GUTTER

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
1104	24+21.54	21.50' LT	253.99	RAMP
1105	24+21.54	27.50' LT	254.08	RAMP
1106	24+36.54	27.50' LT	252.61	LANDING

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
1400	24+69.32	32.52' RT	252.85	PC, R=30'
1401	24+71.85	26.50' RT	252.81	LANDING, BEGIN CURB & GUTTER, CURB 6" EXPOSURE
1402	24+81.67	15.92' RT	252.69	LANDING, CURB 6" EXPOSURE
1403	24+88.51	12.57' RT	252.47	RAMP
1404	24+98.10	11.00' RT	252.11	PT

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
1405	24+81.67	26.50' RT	252.85	LANDING, CURB 6" EXPOSURE
1406	24+88.67	26.50' RT	253.17	RAMP, CURB 0" EXPOSURE

LEGEND

DETECTABLE WARNING SURFACE

CEMENT CONCRETE

| ##.## | POINT NUMBER | POINT ELEVATION

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT MANAGER	DATE
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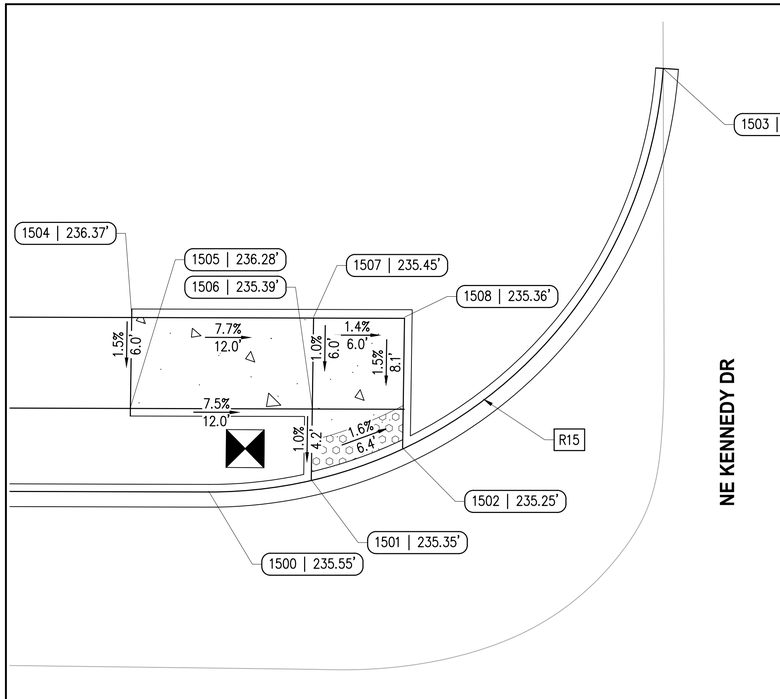
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CURB RAMP PLAN
NE MILLER STREET

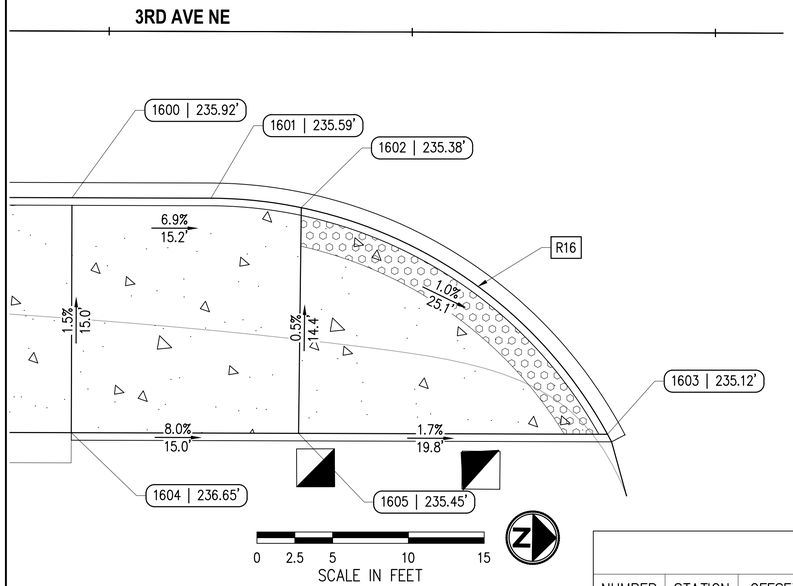
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FLOW LINE POINTS				
NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
1500	29+46.51	16.07' LT	235.55	PC, R=30', CURB 6" EXPOSURE
1501	29+53.28	16.84' LT	235.35	LANDING, CURB 6" EXPOSURE
1502	29+59.31	18.94' LT	235.25	LANDING, CURB 6" EXPOSURE
1503	29+76.43	44.04' LT	235.42	PT, MATCH

SIDEWALK POINTS				
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
1504	29+41.41	27.56' LT	236.37	RAMP, CURB 0" EXPOSURE
1505	29+41.34	21.56' LT	236.28	RAMP, CURB 0" EXPOSURE
1506	29+53.34	21.57' LT	235.39	LANDING, 6" EXPOSURE
1507	29+53.41	27.57' LT	235.45	LANDING, 6" EXPOSURE
1508	29+59.41	27.57' LT	235.36	LANDING, CURB 6" EXPOSURE



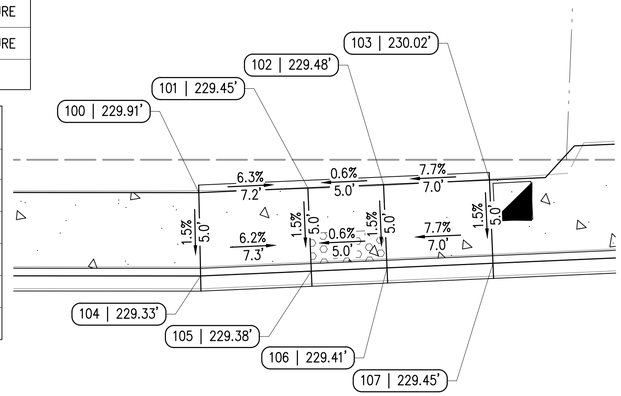
SIDEWALK POINTS				
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
1604	29+37.57	26.50' RT	236.65	RAMP, CURB 0" EXPOSURE
1605	29+52.57	26.50' RT	235.45	LANDING, CURB 6" EXPOSURE

FLOW LINE POINTS				
NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
1600	29+37.58	11.00' RT	235.92	RAMP, CURB 6" EXPOSURE
1601	29+46.75	11.00' RT	235.59	PC, R=30'
1602	29+52.71	11.61' RT	235.38	LANDING, CURB 0" EXPOSURE
1603	29+72.96	26.50' RT	235.12	LANDING, END CURB & GUTTER, CURB 6" EXPOSURE

CURVE TABLE				
##	DELTA	RADIUS	TANGENT	LENGTH
R15	86°06'10"	30.00'	28.03'	45.08'
R16	62°05'14"	30.00'	18.06'	32.51'

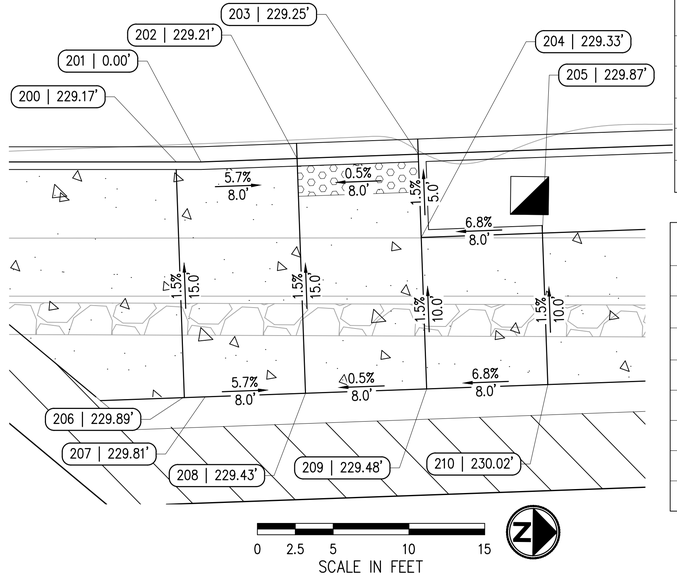
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FLOW LINE POINTS				
NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
104	33+97.22	11.78' LT	229.33	RAMP, AP, CURB 0" EXPOSURE
105	34+04.74	11.88' LT	229.38	LANDING
106	34+09.74	11.92' LT	229.41	LANDING
107	34+16.74	11.97' LT	229.45	RAMP, CURB 6" EXPOSURE

SIDEWALK POINTS				
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
100	33+97.20	17.28' LT	229.91	RAMP, AP. CURB 6" EXPOSURE
101	34+04.70	17.38' LT	229.45	LANDING, CURB 6" EXPOSURE
102	34+09.70	17.42' LT	229.48	LANDING, CURB 6" EXPOSURE
103	34+16.70	17.47' LT	230.02	RAMP, CURB 0" EXPOSURE



FLOW LINE POINTS				
NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
200	33+95.57	11.03' RT	229.17	RAMP, CURB 6" EXPOSURE
201	33+97.17	11.06' RT	0.00	AP
202	34+03.31	11.00' RT	229.21	LANDING, CURB 6" EXPOSURE
203	34+11.31	11.00' RT	229.25	LANDING, CURB 6" EXPOSURE

SIDEWALK POINTS				
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
204	34+11.31	16.50' RT	229.33	LANDING, CURB 6" EXPOSURE
205	34+19.31	16.50' RT	229.87	RAMP, CURB 0" EXPOSURE
206	33+95.88	26.54' RT	229.89	RAMP
207	33+97.16	26.56' RT	229.81	AP
208	34+03.32	26.50' RT	229.43	LANDING
209	34+11.31	26.50' RT	229.48	LANDING
210	34+19.31	26.50' RT	230.02	RAMP

LEGEND

DETECTABLE WARNING SURFACE

CEMENT CONCRETE

| ##.## POINT NUMBER | POINT ELEVATION

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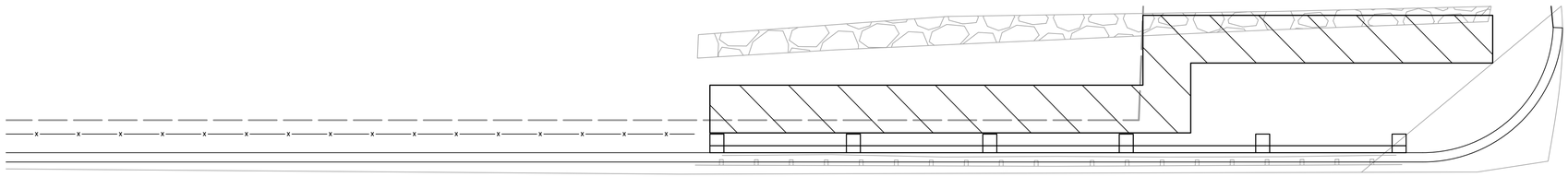
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CURB RAMP PLAN
NE KENNEDY DRIVE & NE TAYLOR ST

KPG PROJECT No. 21078

SHT 68 OF 119

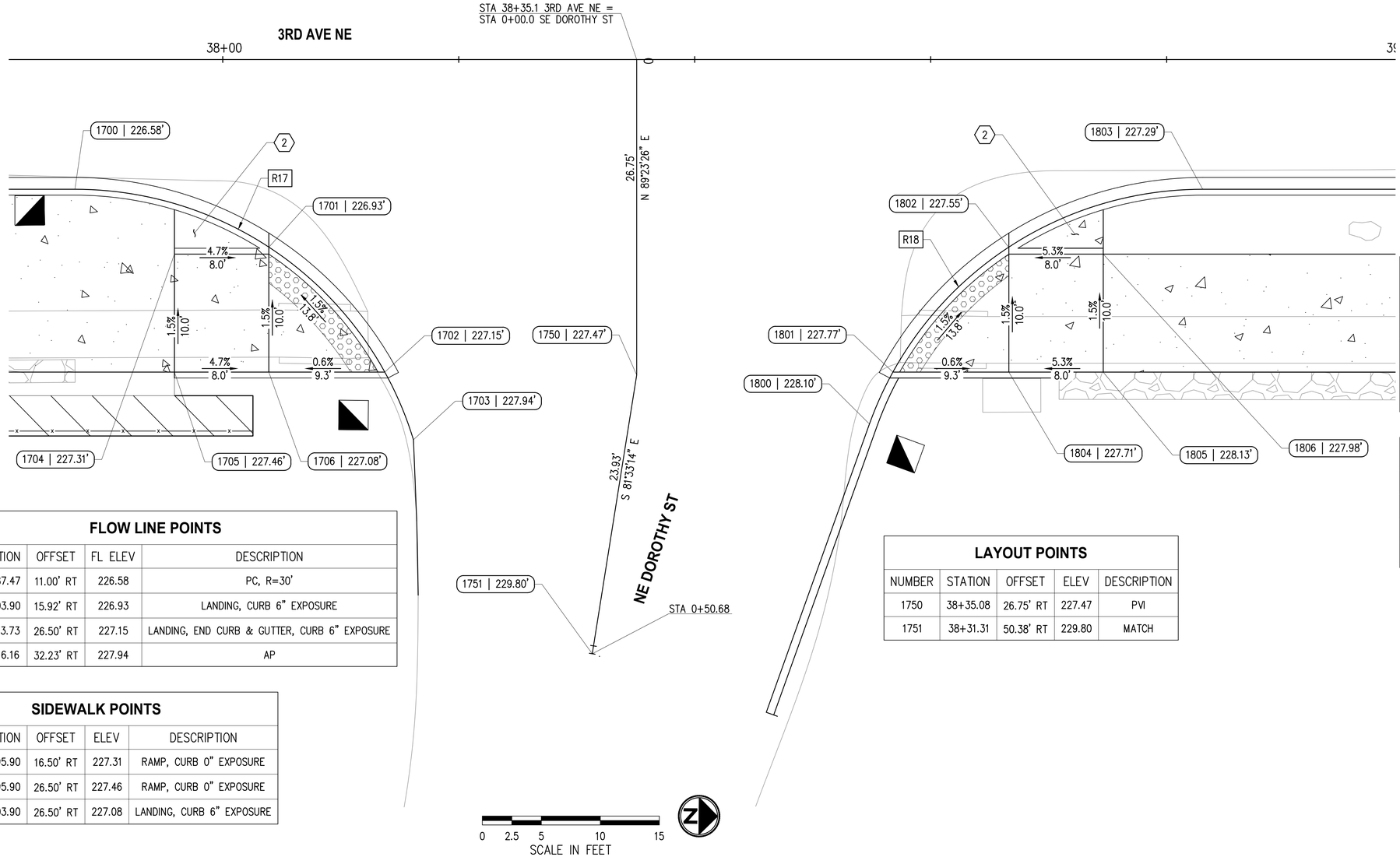
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CURVE TABLE				
##	DELTA	RADIUS	TANGENT	LENGTH
R17	73°00'30"	30.00'	22.20'	38.23'
R18	70°19'23"	30.00'	21.13'	36.82'



CONSTRUCTION NOTES

(2) CONSTRUCT 5" CEMENT CONCRETE SIDEWALK OVER 6" CSTC.

FLOW LINE POINTS				
NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
1700	37+87.47	11.00' RT	226.58	PC, R=30'
1701	38+03.90	15.92' RT	226.93	LANDING, CURB 6" EXPOSURE
1702	38+13.73	26.50' RT	227.15	LANDING, END CURB & GUTTER, CURB 6" EXPOSURE
1703	38+16.16	32.23' RT	227.94	AP

SIDEWALK POINTS				
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
1704	37+95.90	16.50' RT	227.31	RAMP, CURB 0" EXPOSURE
1705	37+95.90	26.50' RT	227.46	RAMP, CURB 0" EXPOSURE
1706	38+03.90	26.50' RT	227.08	LANDING, CURB 6" EXPOSURE

FLOW LINE POINTS				
NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
1800	38+54.81	30.90' RT	228.10	PC, R=30'
1801	38+56.79	26.50' RT	227.77	LANDING, 6" EXPOSURE
1802	38+66.62	15.94' RT	227.55	LANDING, CURB 6" EXPOSURE
1803	38+83.06	11.00' RT	227.29	PT

SIDEWALK POINTS				
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
1804	38+66.62	26.50' RT	227.71	LANDING, 6" EXPOSURE
1805	38+74.62	26.51' RT	228.13	RAMP
1806	38+74.62	16.50' RT	227.98	RAMP, CURB 0" EXPOSURE

LAYOUT POINTS				
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
1750	38+35.08	26.75' RT	227.47	PVI
1751	38+31.31	50.38' RT	229.80	MATCH

LEGEND

DETECTABLE WARNING SURFACE

CEMENT CONCRETE

| ##.## POINT NUMBER | POINT ELEVATION

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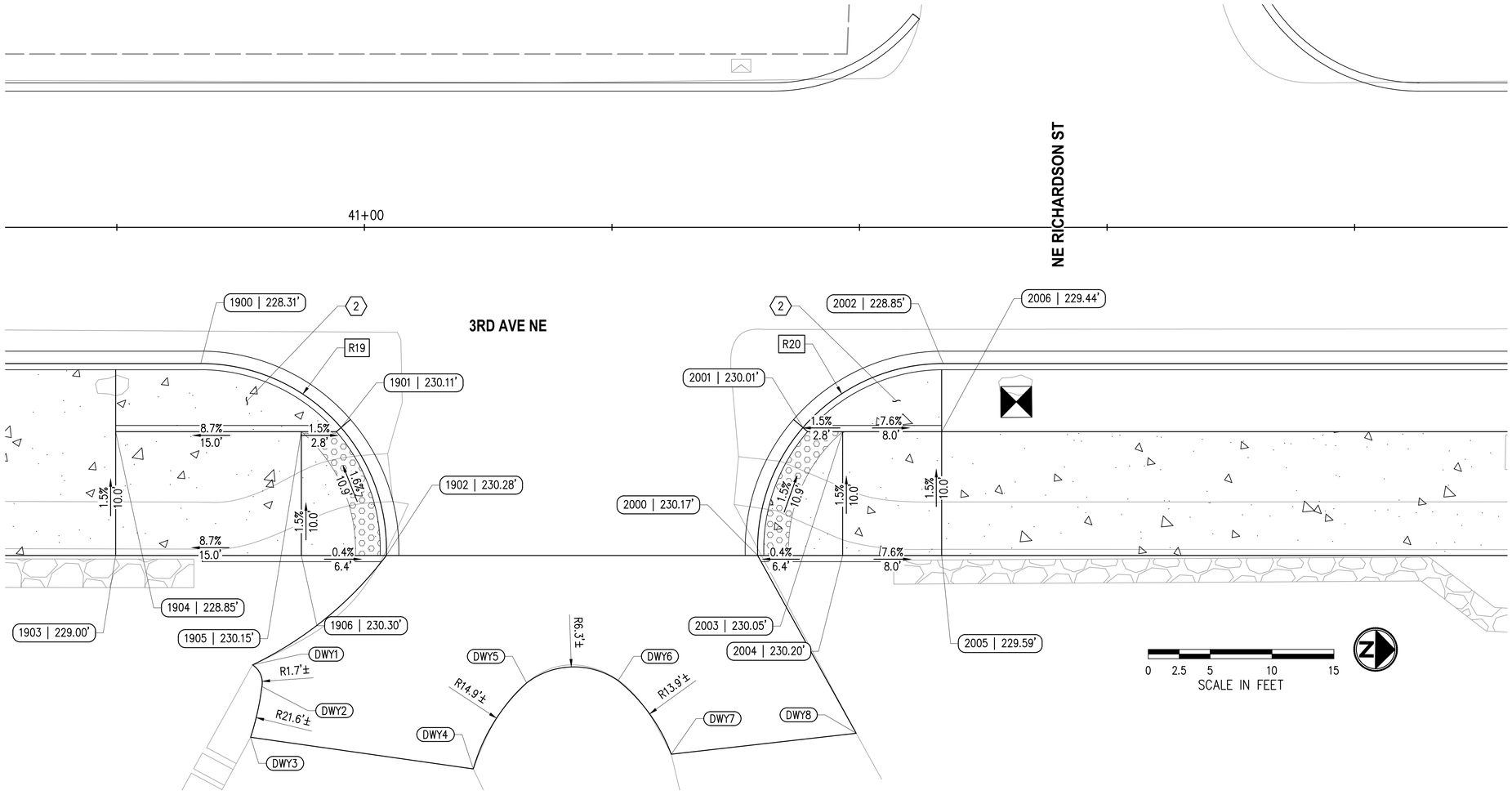
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CURB RAMP PLAN
NE DOROTHY STREET

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CURVE TABLE

##	DELTA	RADIUS	TANGENT	LENGTH
R19	91°54'37"	15.00'	15.51'	24.06'
R20	91°25'12"	15.00'	15.38'	23.93'

MAXIMUM EXTENTS FEASIBLE NOTES

THE SCOPE OF THIS PROJECT IS TO CONSTRUCT NEW ROADWAYS ALONG 3RD AVE NE. NEW CURB RAMPS WILL BE INSTALLED TO IMPROVE PEDESTRIAN CROSSINGS.

THE NORTH-SOUTH CURB RAMP ON THE SE CORNER OF 3RD & RICHARDSON EXCEEDS 8.3%. THE RAMP SHALL BE 15' IN LENGTH.

CONSTRUCTION NOTES

(2) CONSTRUCT 5" CEMENT CONCRETE SIDEWALK OVER 6" CSTC.

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
1900	40+86.78	11.00' RT	228.31	PC, R=15', CURB 6" EXPOSURE
1901	40+98.11	16.18' RT	230.11	LANDING, CURB 6" EXPOSURE
1902	41+01.77	26.50' RT	230.28	LANDING, AP, END CURB & GUTTER, CURB 6" EXPOSURE

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
1903	40+79.90	26.50' RT	229.00	RAMP
1904	40+79.90	16.50' RT	228.85	RAMP, CURB 0" EXPOSURE
1905	40+94.90	16.50' RT	230.15	LANDING, CURB 6" EXPOSURE
1906	40+94.90	26.50' RT	230.30	LANDING, CURB 6" EXPOSURE

LAYOUT POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
DWY1	40+90.96	35.34' RT	232.61	PC, MATCH
DWY2	40+91.72	37.08' RT	232.82	PCC, MATCH
DWY3	40+90.81	41.18' RT	233.60	MATCH
DWY4	41+08.80	43.74' RT	233.63	PC, MATCH
DWY5	41+13.11	36.80' RT	232.13	PCC, MATCH
DWY6	41+20.49	36.61' RT	232.00	PCC, MATCH
DWY7	41+24.79	42.55' RT	233.11	MATCH
DWY8	41+39.73	40.86' RT	233.22	MATCH

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
2000	41+31.77	26.50' RT	230.17	LANDING, PC, R=15', BEGIN CURB & GUTTER
2001	41+35.43	16.17' RT	230.01	LANDING, CURB 6" EXPOSURE
2002	41+46.76	11.00' RT	228.85	PT

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
2003	41+38.64	16.50' RT	230.05	LANDING, CURB 6" EXPOSURE
2004	41+38.64	26.50' RT	230.20	LANDING, CURB 6" EXPOSURE
2005	41+46.64	26.50' RT	229.59	RAMP
2006	41+46.64	16.50' RT	229.44	RAMP, CURB 0" EXPOSURE

LEGEND

- DETECTABLE WARNING SURFACE
- CEMENT CONCRETE
- ## | ##.## POINT NUMBER | POINT ELEVATION

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Approved By

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PROJECT ENGINEER	DATE

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DESIGNED BY	DATE
KAB	01/2025
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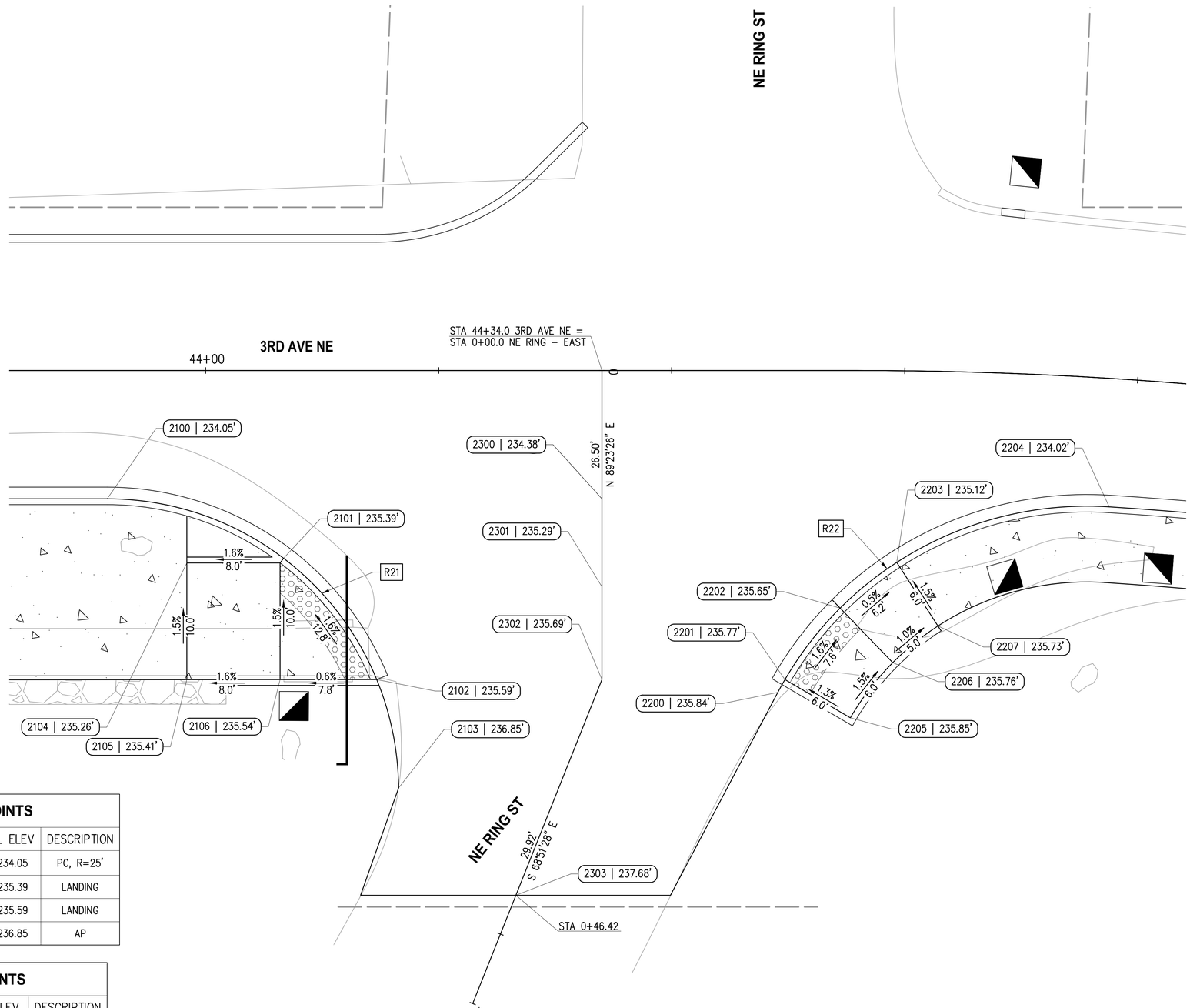
City of Duvall
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CURB RAMP PLAN
NE RICHARDSON STREET

KPG PROJECT No. 21078 | SHT 70 OF 119

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GENERAL NOTES

1. ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ANY GRADING MODIFICATIONS REQUIRED FOR ADA COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
2. ALL CASTINGS AND UTILITY COVERS LOCATED WITHIN THE PAR ARE ARE REQUIRED TO BE NON–SLIP.
3. USE RADIUS DETECTABLE WARNING SURFACE (DWS) WHERE APPLICABLE. DWS SHALL BE INSTALLED PER WSDOT STD PLAN F–45.10–03.

CURVE TABLE

##	DELTA	RADIUS	TANGENT	LENGTH
R21	89°32'32"	25.00'	24.80'	39.07'
R22	65°46'30"	30.00'	19.40'	34.44'

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
2200	44+49.10	27.60' RT	235.84	PC, R=30'
2201	44+49.71	26.50' RT	235.77	LANDING
2202	44+54.45	20.37' RT	235.65	LANDING
2203	44+59.47	16.44' RT	235.12	RAMP
2204	44+78.25	11.00' RT	234.02	PCC, R = 339'

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
2205	44+55.33	29.78' RT	235.85	LANDING. CURB 6" EXPOSURE
2206	44+59.20	25.04' RT	235.76	LANDING. CURB 6" EXPOSURE
2207	44+63.30	21.84' RT	235.73	RAMP, CURB 0" EXPOSURE

LAYOUT POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
2300	44+34.01	11.00' RT	234.38	PVI
2301	44+34.01	18.54' RT	235.29	PVI
2302	44+34.01	26.50' RT	235.69	PVI
2303	44+26.63	45.00' RT	237.68	MATCH

FLOW LINE POINTS

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
2100	43+91.57	11.00' RT	234.05	PC, R=25'
2101	44+06.70	16.10' RT	235.39	LANDING
2102	44+14.69	26.50' RT	235.59	LANDING
2103	44+16.57	35.80' RT	236.85	AP

SIDEWALK POINTS

NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
2104	43+98.40	16.50' RT	235.26	RAMP
2105	43+98.40	26.50' RT	235.41	RAMP
2106	44+06.40	26.50' RT	235.54	LANDING

LEGEND

- DETECTABLE WARNING SURFACE
- CEMENT CONCRETE
- ## | ##.## POINT NUMBER | POINT ELEVATION

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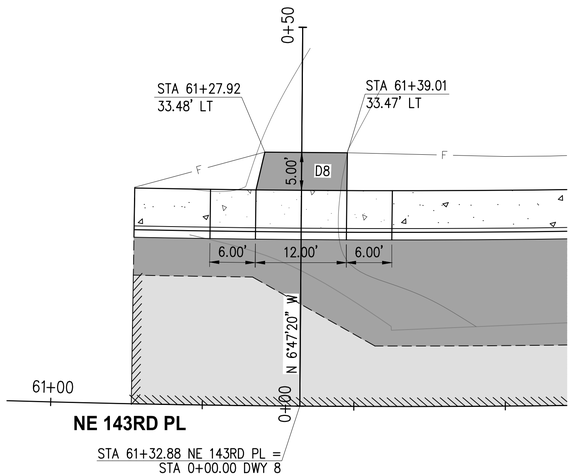
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CURB RAMP PLAN
NE RING STREET

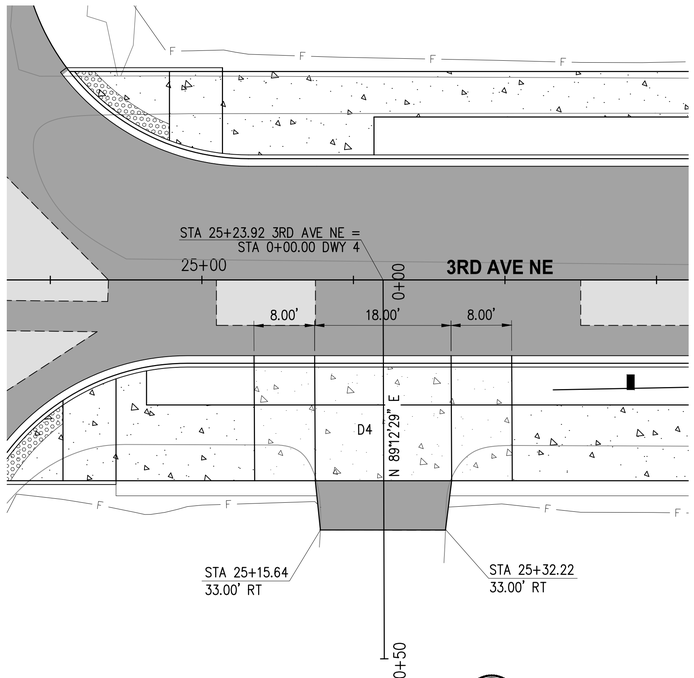
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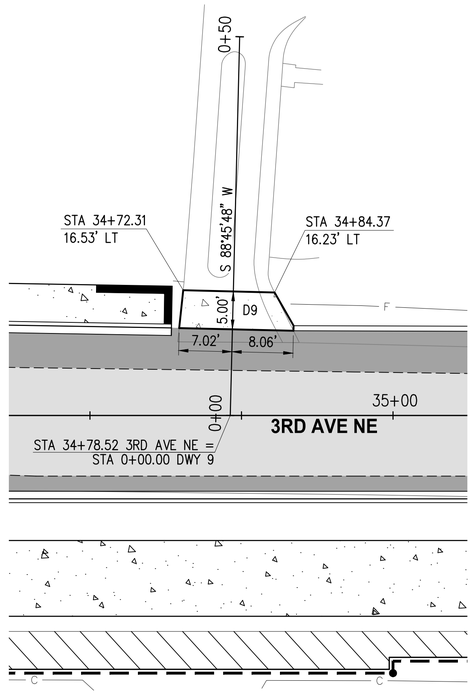
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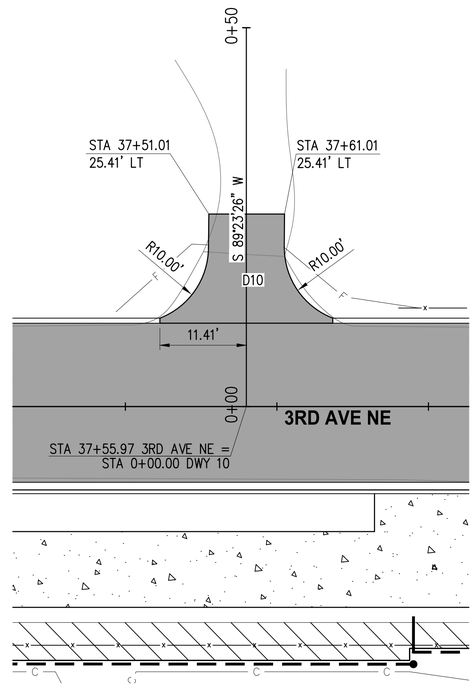
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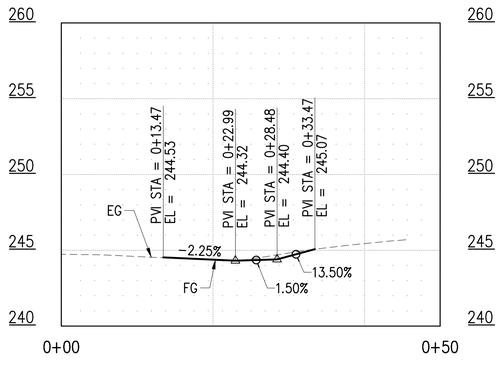
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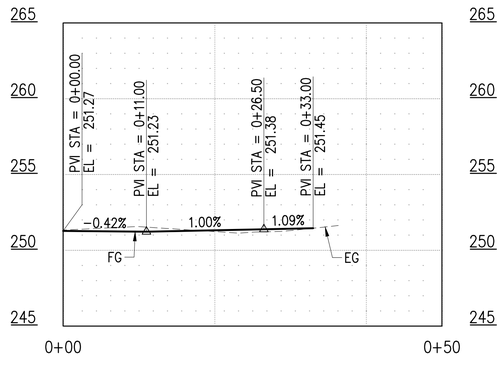
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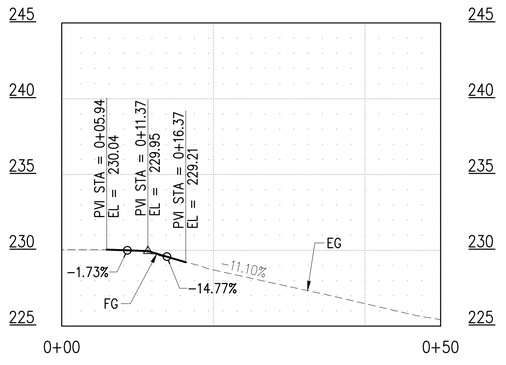
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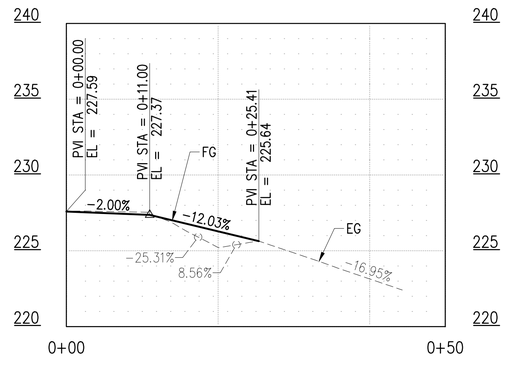
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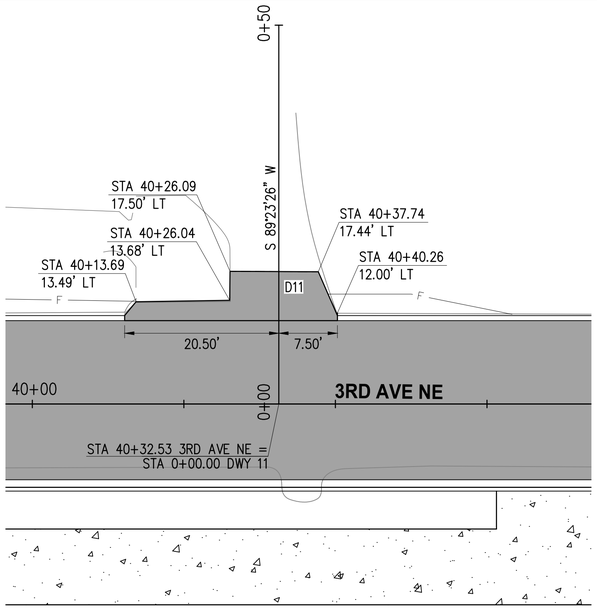
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DRIVEWAY PLAN & PROFILE

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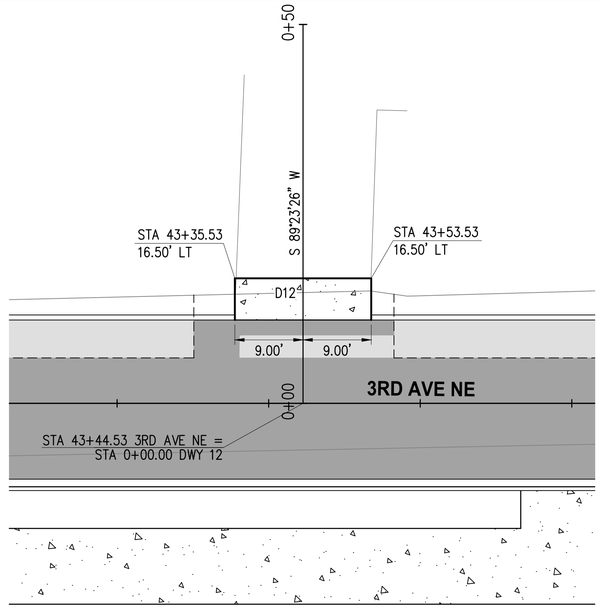
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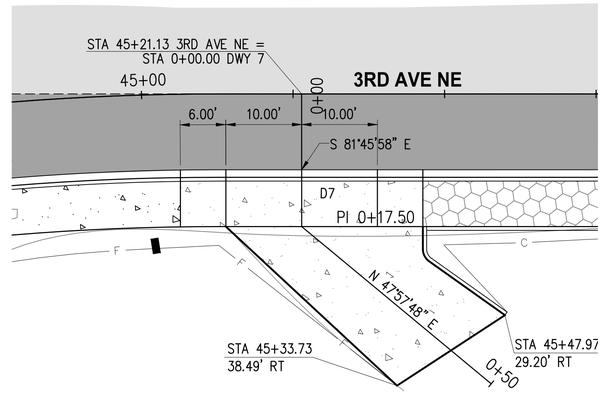
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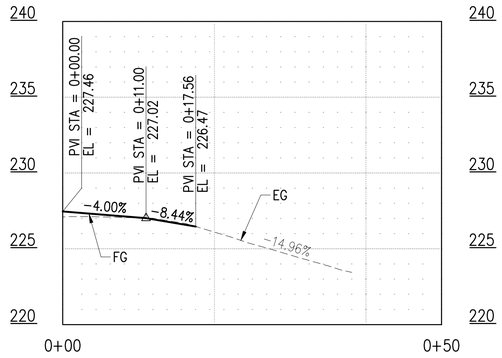
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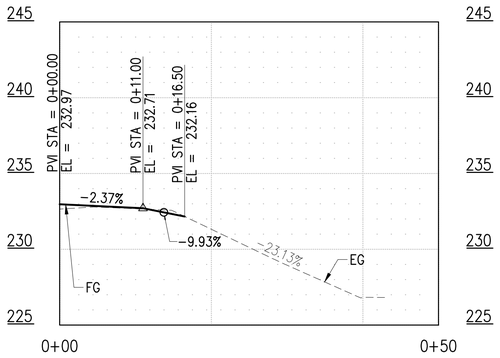
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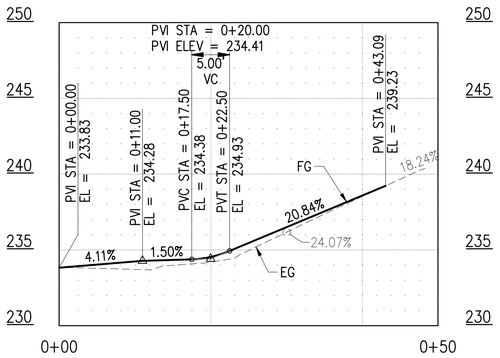
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DRIVEWAY PLAN & PROFILE

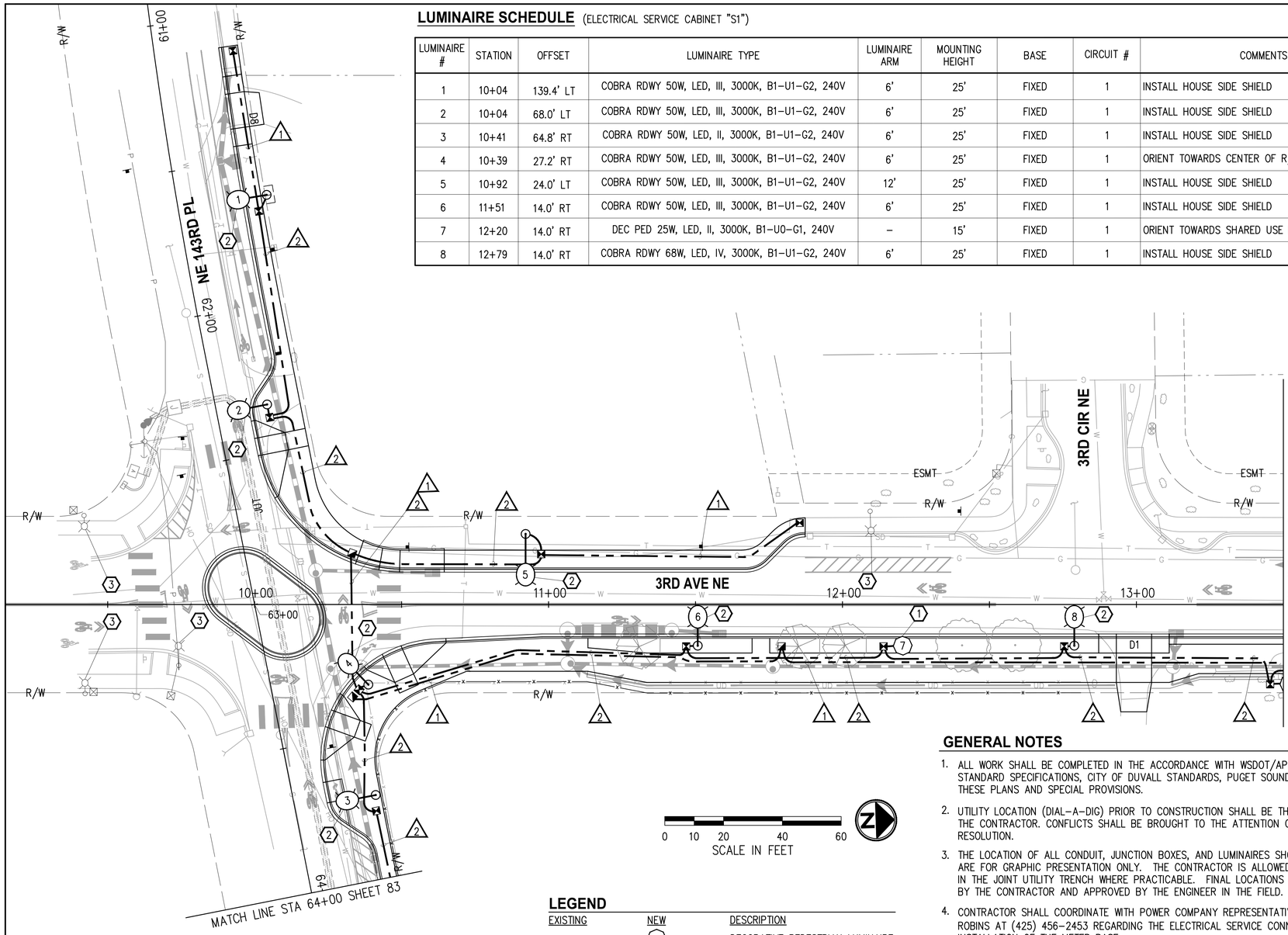
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LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S1")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
1	10+04	139.4' LT	COBRA RDWY 50W, LED, III, 3000K, B1–U1–G2, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
2	10+04	68.0' LT	COBRA RDWY 50W, LED, III, 3000K, B1–U1–G2, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
3	10+41	64.8' RT	COBRA RDWY 50W, LED, II, 3000K, B1–U1–G2, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
4	10+39	27.2' RT	COBRA RDWY 50W, LED, III, 3000K, B1–U1–G2, 240V	6'	25'	FIXED	1	ORIENT TOWARDS CENTER OF R/A, INSTALL HSS
5	10+92	24.0' LT	COBRA RDWY 50W, LED, III, 3000K, B1–U1–G2, 240V	12'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
6	11+51	14.0' RT	COBRA RDWY 50W, LED, III, 3000K, B1–U1–G2, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
7	12+20	14.0' RT	DEC PED 25W, LED, II, 3000K, B1–U0–G1, 240V	–	15'	FIXED	1	ORIENT TOWARDS SHARED USE PATH
8	12+79	14.0' RT	COBRA RDWY 68W, LED, IV, 3000K, B1–U1–G2, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD



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SCALE IN FEET

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J–28.30 (TYPE A) EXCEPT USE 4–BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 84 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE WHERE APPLICABLE). FURNISH AND INSTALL DECORATIVE PEDESTRIAN LUMINAIRE POLE, POST TOP DECORATIVE PEDESTRIAN LED LUMINAIRE, DECORATIVE BASE, AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 84. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J–28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3–#8 AWG). SEE SPECIAL PROVISIONS SECTIONS 6–07, 8–20 AND 9–29.
2. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J–28.30 (TYPE A) EXCEPT USE 4–BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 84 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 84. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J–28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3–#8 AWG). SEE SPECIAL PROVISIONS SECTIONS 6–07, 8–20 AND 9–29.
3. EXISTING LUMINAIRE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING DURING CONSTRUCTION, WHERE APPLICABLE.

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2–#6(ILL), 2–#6(GFCI)	
3	3"	3–#3	FEEDER, NO GROUND
4	3"	6–#6(ILL), 6–#6(GFCI)	
5	2"	4–#6(ILL), 4–#6(GFCI)	
6	2"	2–#6(ILL), 2–#6(GFCI), 2–#8(RADAR)	
7	2"	2–#8(RADAR)	
8	2"	2–#8(ILL), 2–#6(GFCI), 2–#8(RRFB)	
9	2"	2–#8(RRFB)	
10	3"	2–#8(ILL), 2–#6(GFCI), 2–#8(RRFB), 2–#8(RADAR)	

NOTES
1. ALL NEW CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN IN THE TABLE ABOVE), UNLESS NOTED OTHERWISE. GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS NOTED OTHERWISE IN THE WIRE NOTES). SPARE/EMPTY CONDUITS SHALL CONTAIN DETECTABLE PULL TAPE AND SHALL BE LABELED CITY OF DUVALL CONDUIT.
2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN THE ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF DUVALL STANDARDS, PUGET SOUND ENERGY STANDARDS, THESE PLANS AND SPECIAL PROVISIONS.
2. UTILITY LOCATION (DIAL–A–DIG) PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
3. THE LOCATION OF ALL CONDUIT, JUNCTION BOXES, AND LUMINAIRES SHOWN ON THIS PLAN ARE FOR GRAPHIC PRESENTATION ONLY. THE CONTRACTOR IS ALLOWED TO INSTALL CONDUIT IN THE JOINT UTILITY TRENCH WHERE PRACTICABLE. FINAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER IN THE FIELD.
4. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY REPRESENTATIVE (PSE), RAWLEY ROBINS AT (425) 456–2453 REGARDING THE ELECTRICAL SERVICE CONNECTION AND INSTALLATION OF THE METER BASE.
5. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, THE CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
6. ALL NEW JUNCTION BOXES INSTALLED IN SIDEWALKS SHALL HAVE LOCKING AND SKID RESISTANT COATED LIDS AND FRAMES. JUNCTION BOXES SHALL NOT BE PLACED IN ADA CURB RAMPS OR ADA CURB RAMP LANDINGS.
7. THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR SHALL BE VERIFIED IN FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
8. EXISTING OR HIGHER ILLUMINATION LEVELS, SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION, BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

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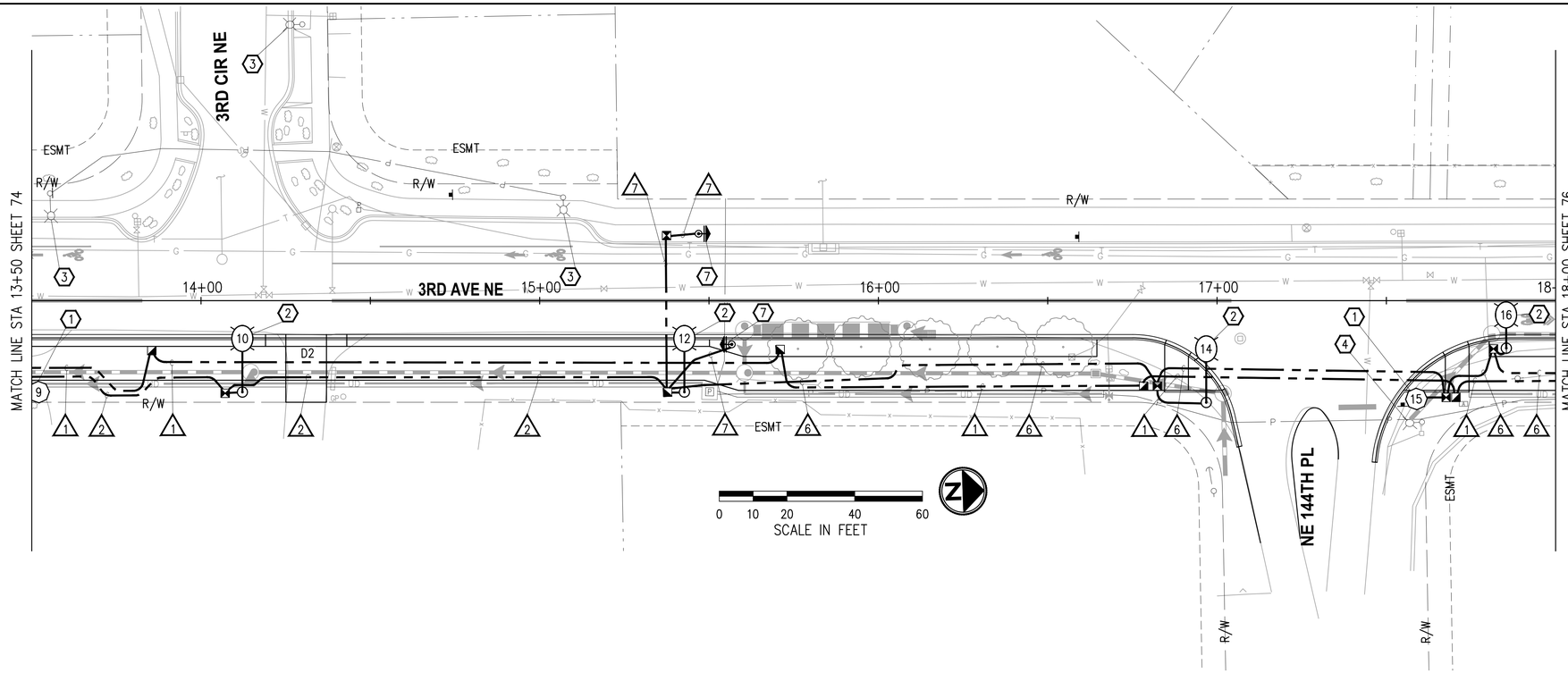
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ILLUMINATION PLAN
STA 9+25 TO STA 13+50

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CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 84 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE WHERE APPLICABLE). FURNISH AND INSTALL DECORATIVE PEDESTRIAN LUMINAIRE POLE, POST TOP DECORATIVE PEDESTRIAN LED LUMINAIRE, DECORATIVE BASE, AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 84. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS SECTIONS 6-07, 8-20 AND 9-29.
2. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 84 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 84. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS SECTIONS 6-07, 8-20 AND 9-29.
3. EXISTING LUMINAIRE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING DURING CONSTRUCTION, WHERE APPLICABLE.
4. EXISTING TIMBER UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS. COORDINATE WORK WITH THE PUGET SOUND ENERGY REPRESENTATIVE.
7. INSTALL FOUNDATION PER WSDOT STD PLAN J-21.10 (FIXED, OMIT BREAKAWAY COUPLINGS AND ANCHOR BOLTS SHALL PROTRUDE AT LEAST 3" FROM THE TOP OF THE FOUNDATION). ANCHOR BOLT PLACEMENT SHALL PERMIT INSTALLATION OF BOX-TYPE BASE AND CIRCLE BOLT CONFIGURATION SHALL BE PER DETAILS, SHEET 86. FURNISH AND INSTALL POLE AND 30" X 24" AC POWERED SPEED RADAR SIGN ASSEMBLY WITH 12" LED DISPLAY AND YELLOW BACKGROUND PER DETAILS, SHEET 86. LOCATION SHALL BE PER CHANNELIZATION & SIGNING PLANS. SEE SPECIAL PROVISIONS SECTIONS 6-07, 8-20 AND 9-29.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S1")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
9	13+52	27.0' RT	DEC PED 25W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	1	
10	14+12	27.0' RT	COBRA RDWY 68W, LED, IV, 3000K, B1-U1-G2, 240V	12'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
12	15+43	27.0' RT	COBRA RDWY 68W, LED, II, 3000K, B1-U2-G2, 240V	12'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
14	16+97	30.1' RT	COBRA RDWY 68W, LED, II, 3000K, B1-U2-G2, 240V	12'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
15	17+59	29.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	1	
16	17+85	14.0' RT	COBRA RDWY 50W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN THE ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF DUVALL STANDARDS, PUGET SOUND ENERGY STANDARDS, THESE PLANS AND SPECIAL PROVISIONS.
2. UTILITY LOCATION (DIAL-A-DIG) PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
3. THE LOCATION OF ALL CONDUIT, JUNCTION BOXES, AND LUMINAIRES SHOWN ON THIS PLAN ARE FOR GRAPHIC PRESENTATION ONLY. THE CONTRACTOR IS ALLOWED TO INSTALL CONDUIT IN THE JOINT UTILITY TRENCH WHERE PRACTICABLE. FINAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER IN THE FIELD.
4. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY REPRESENTATIVE (PSE), RAWLEY ROBINS AT (425) 456-2453 REGARDING THE ELECTRICAL SERVICE CONNECTION AND INSTALLATION OF THE METER BASE.
5. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, THE CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
6. ALL NEW JUNCTION BOXES INSTALLED IN SIDEWALKS SHALL HAVE LOCKING AND SKID RESISTANT COATED LIDS AND FRAMES. JUNCTION BOXES SHALL NOT BE PLACED IN ADA CURB RAMPS OR ADA CURB RAMP LANDINGS.
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8. EXISTING OR HIGHER ILLUMINATION LEVELS, SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION, BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#6(ILL), 2-#6(GFCI)	
3	3"	3-#3	FEEDER, NO GROUND
4	3"	6-#6(ILL), 6-#6(GFCI)	
5	2"	4-#6(ILL), 4-#6(GFCI)	
6	2"	2-#6(ILL), 2-#6(GFCI), 2-#8(RADAR)	
7	2"	2-#8(RADAR)	
8	2"	2-#8(ILL), 2-#6(GFCI), 2-#8(RRFB)	
9	2"	2-#8(RRFB)	
10	3"	2-#8(ILL), 2-#6(GFCI), 2-#8(RRFB), 2-#8(RADAR)	

NOTES
1. ALL NEW CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN IN THE TABLE ABOVE), UNLESS NOTED OTHERWISE. GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS NOTED OTHERWISE IN THE WIRE NOTES). SPARE/EMPTY CONDUITS SHALL CONTAIN DETECTABLE PULL TAPE AND SHALL BE LABELED CITY OF DUVALL CONDUIT.
2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

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JAN CIGANIK — STATE OF WASHINGTON — 39324 — REGISTERED PROFESSIONAL ENGINEER

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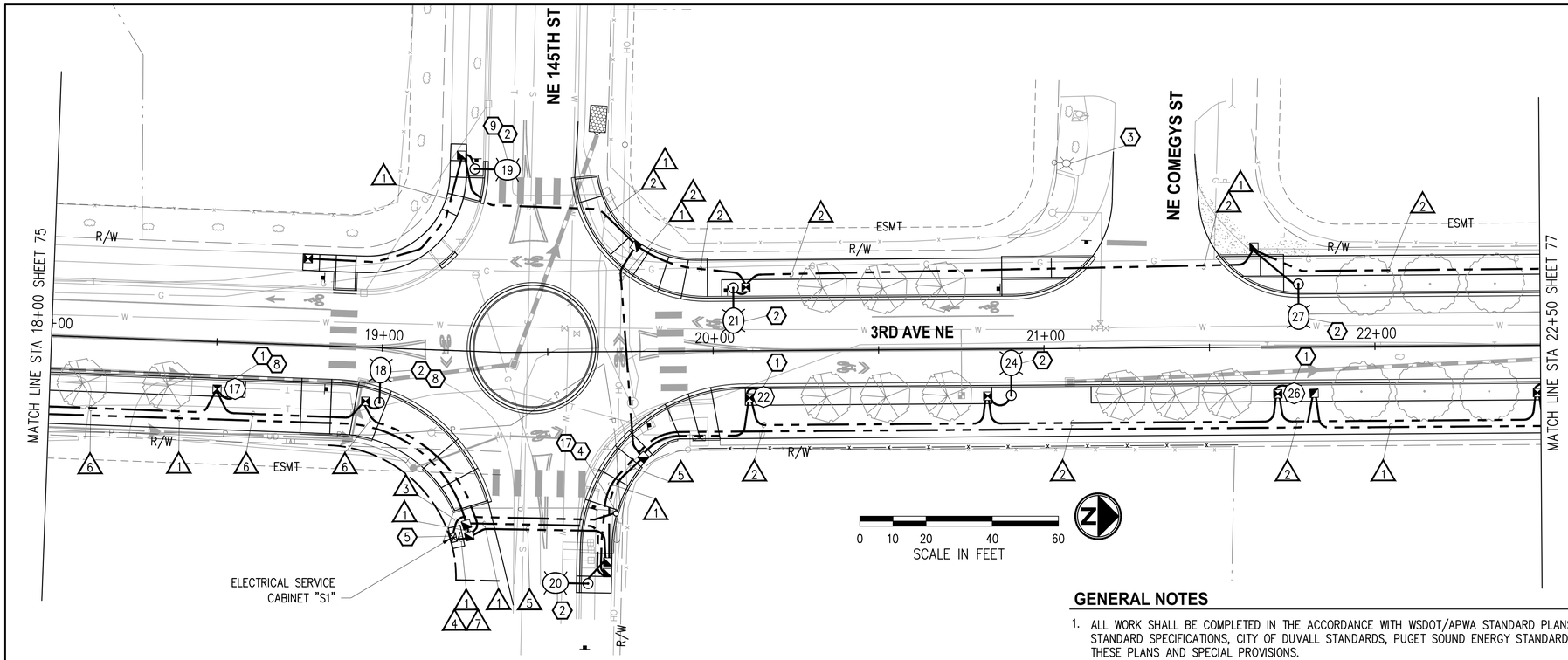
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 13+50 TO STA 18+00

KPG PROJECT No. 21078

SHT 75 OF 119

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CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 84 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE WHERE APPLICABLE). FURNISH AND INSTALL DECORATIVE PEDESTRIAN LUMINAIRE POLE, POST TOP DECORATIVE PEDESTRIAN LED LUMINAIRE, DECORATIVE BASE, AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 84. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS SECTIONS 6-07, 8-20 AND 9-29.
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3. EXISTING LUMINAIRE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING DURING CONSTRUCTION, WHERE APPLICABLE.
4. EXISTING TIMBER UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS. COORDINATE WORK WITH THE PUGET SOUND ENERGY REPRESENTATIVE.
5. CONSTRUCT ELECTRICAL SERVICE CABINET FOUNDATION PER WSDOT STD PLAN J-10.10. FURNISH AND INSTALL TYPE D ELECTRICAL SERVICE CABINET PER WSDOT STD PLAN J-10.21. FOR LOCATION, BREAKERS SCHEDULE AND ADDITIONAL INFORMATION, SEE PANEL SCHEDULE PER SHEET 84. VERIFY FINAL LOCATION WITH THE ENGINEER IN THE FIELD. COORDINATE ELECTRICAL METER BASE INSTALLATION WITH THE PSE REPRESENTATIVE. SEE SPECIAL PROVISIONS SECTIONS 8-20 AND 9-29.
8. LUMINAIRE POLE FOUNDATION UTILITY CONFLICT. UTILITY TO BE RELOCATED BY OTHERS.
9. LUMINAIRE POLE FOUNDATION IN CONFLICT WITH ABANDONED STORM PIPE. REMOVE CONFLICTING PIPE SECTION AND CAP BOTH ENDS.
17. POWER SOURCE LOCATION FOR PROPOSED ELECTRICAL SERVICE CABINET (TO BE CONFIRMED AT THE NEXT SUBMITTAL).

GENERAL NOTES

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LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S1")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
17	18+56	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	1	ORIENT TOWARDS SHARED USE PATH
18	19+00	16.5' RT	COBRA RDWY 68W, LED, II, 3000K, B1-U2-G2, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
19	19+26	55.1' LT	COBRA RDWY 68W, LED, II, 3000K, B1-U2-G2, 240V	6'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD
20	19+62	70.1' RT	COBRA RDWY 68W, LED, II, 3000K, B1-U2-G2, 240V	6'	25'	FIXED	9	INSTALL HOUSE SIDE SHIELD
21	20+06	19.0' LT	COBRA RDWY 68W, LED, II, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD
22	20+15	14.0' RT	DEC PED 25W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	9	ORIENT TOWARDS SHARED USE PATH
24	20+90	14.1' RT	COBRA RDWY 50W, LED, II, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	9	INSTALL HOUSE SIDE SHIELD
26	21+75	14.0' RT	DEC PED 25W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	9	ORIENT TOWARDS SHARED USE PATH
27	21+77	19.0' LT	COBRA RDWY 50W, LED, II, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#6(ILL), 2-#6(GFCI)	
3	3"	3-#3	FEEDER, NO GROUND
4	3"	6-#6(ILL), 6-#6(GFCI)	
5	2"	4-#6(ILL), 4-#6(GFCI)	
6	2"	2-#6(ILL), 2-#6(GFCI), 2-#8(RADAR)	
7	2"	2-#8(RADAR)	
8	2"	2-#8(ILL), 2-#6(GFCI), 2-#8(RRFB)	
9	2"	2-#8(RRFB)	
10	3"	2-#8(ILL), 2-#6(GFCI), 2-#8(RRFB), 2-#8(RADAR)	

NOTES
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2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

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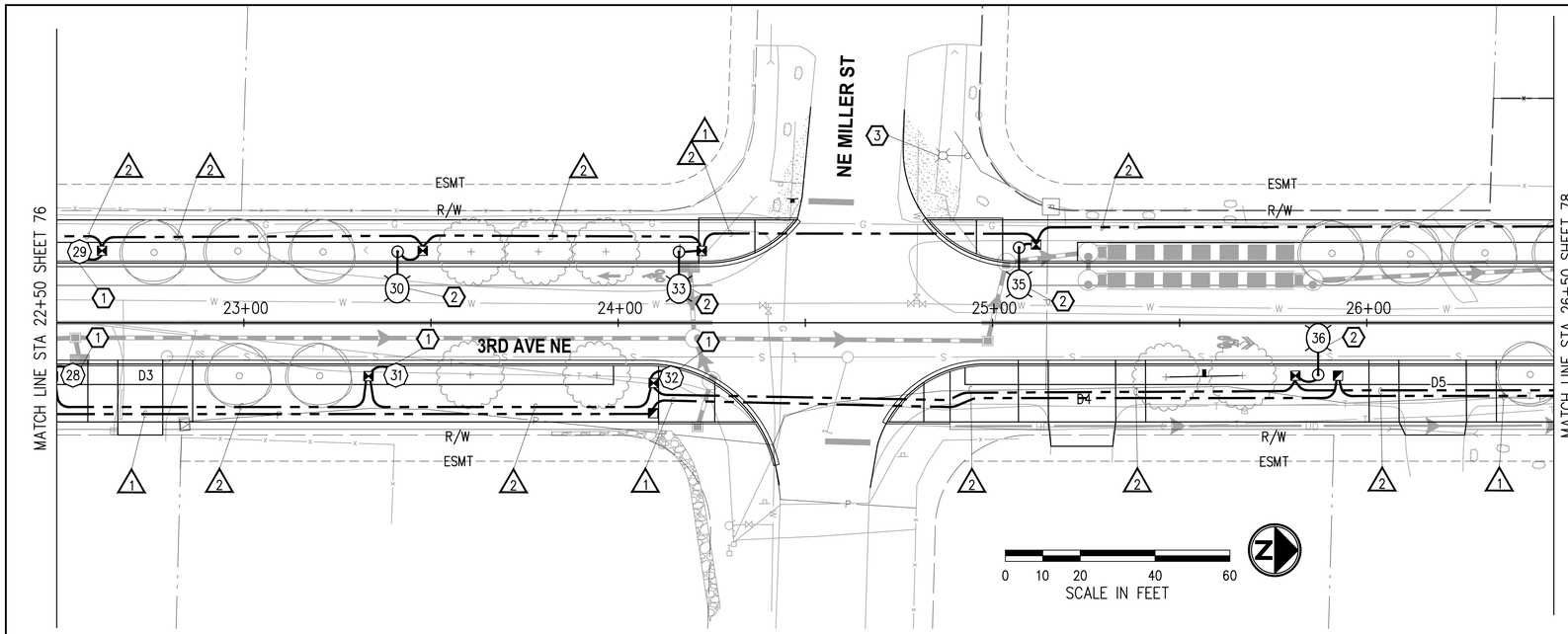
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 18+00 TO STA 22+50

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CONSTRUCTION NOTES

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3. EXISTING LUMINAIRE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING DURING CONSTRUCTION, WHERE APPLICABLE.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S1")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
28	22+54	14.0' RT	DEC PED 60W, LED, III, 3000K, B1-U0-G1, 240V	–	15'	FIXED	9	
29	22+56	19.0' LT	DEC PED 25W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	5	ORIENT TOWARDS SIDEWALK
30	23+41	19.0' LT	COBRA RDWY 50W, LED, II, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD
31	23+41	14.0' RT	DEC PED 25W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	9	ORIENT TOWARDS SHARED USE PATH
32	24+14	14.7' RT	DEC PED 25W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	9	ORIENT TOWARDS SHARED USE PATH
33	24+16	18.9' LT	COBRA RDWY 50W, LED, II, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD
35	25+07	20.1' LT	COBRA RDWY 50W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD
36	25+87	13.9' RT	COBRA RDWY 50W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	9	INSTALL HOUSE SIDE SHIELD

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

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WIRE NOTES

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1	2"		SPARE
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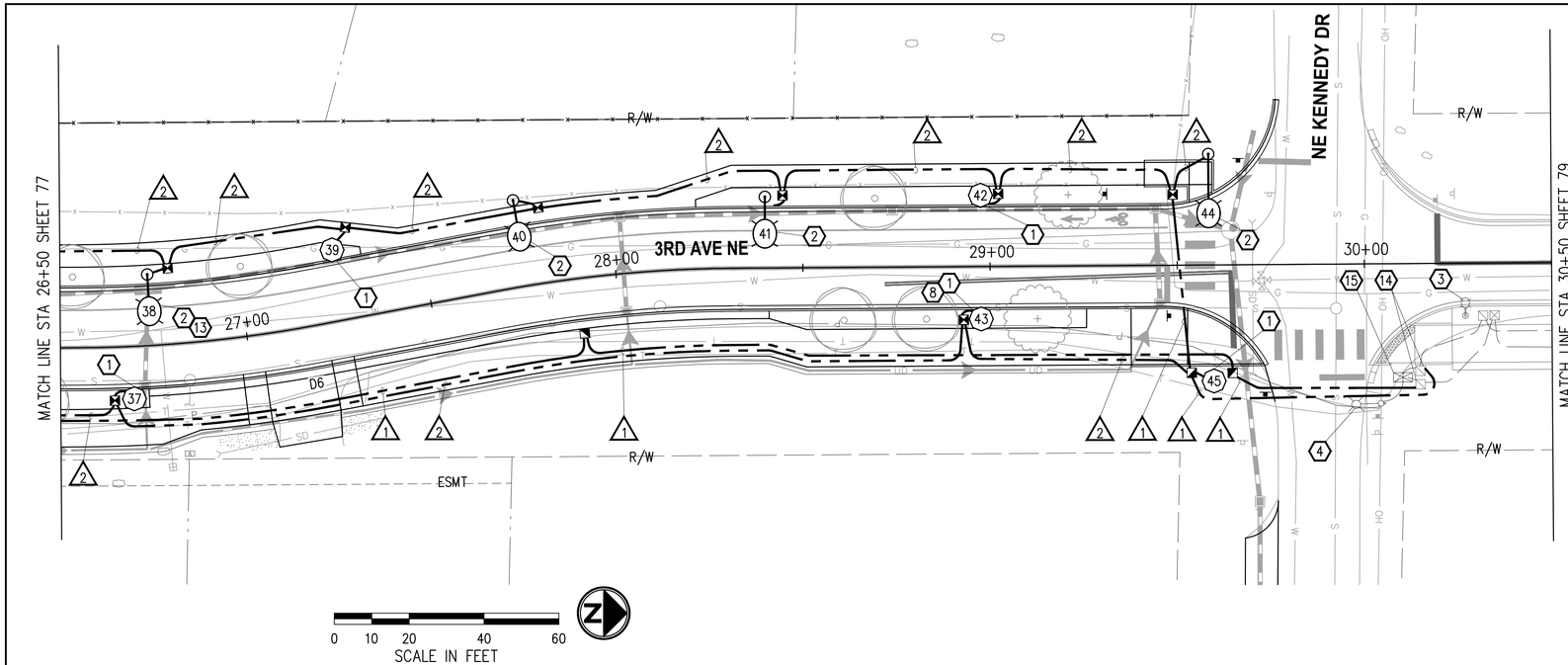
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 22+50 TO STA 26+50

KPG PROJECT No. 21078

SHT 77 OF 119

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8. LUMINAIRE POLE FOUNDATION UTILITY CONFLICT. UTILITY TO BE RELOCATED BY OTHERS.
13. LUMINAIRE FOUNDATION SHALL USE CONSTRUCTION METHOD 2 PER WSDOT STD PLAN J-28.30. PREVIOUSLY DISTURBED AREA SHALL BE BACKFILLED WITH CDF.
14. ADD NEW CONDUIT TO EXISTING JUNCTION BOX. PROTECT EXISTING WIRING DURING CONSTRUCTION.
15. LOCATION OF EXISTING SERVICE CABINET, PROVIDING POWER TO EXISTING STREET ILLUMINATION AT CULVER CROSSING.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S1")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
37	26+69	14.0' RT	DEC PED 25W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	9	ORIENT TOWARDS SHARED USE PATH
38	26+74	19.0' LT	COBRA RDWY 50W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD
39	27+27	19.0' LT	DEC PED 25W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	5	ORIENT TOWARDS SIDEWALK
40	27+76	23.1' LT	COBRA RDWY 50W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD
41	28+40	19.0' LT	COBRA RDWY 50W, LED, II, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD
42	28+98	19.0' LT	DEC PED 25W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	5	ORIENT TOWARDS SIDEWALK
43	28+98	14.0' RT	DEC PED 25W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	9	ORIENT TOWARDS SHARED USE PATH
44	29+58	29.6' LT	COBRA RDWY 50W, LED, II, 3000K, B1-U1-G2, 240V	12'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD
45	29+60	31.0' RT	DEC PED 25W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	9	

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN THE ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF DUVALL STANDARDS, PUGET SOUND ENERGY STANDARDS, THESE PLANS AND SPECIAL PROVISIONS.
2. UTILITY LOCATION (DIAL-A-DIG) PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
3. THE LOCATION OF ALL CONDUIT, JUNCTION BOXES, AND LUMINAIRES SHOWN ON THIS PLAN ARE FOR GRAPHIC PRESENTATION ONLY. THE CONTRACTOR IS ALLOWED TO INSTALL CONDUIT IN THE JOINT UTILITY TRENCH WHERE PRACTICABLE. FINAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER IN THE FIELD.
4. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY REPRESENTATIVE (PSE), RAWLEY ROBINS AT (425) 456-2453 REGARDING THE ELECTRICAL SERVICE CONNECTION AND INSTALLATION OF THE METER BASE.
5. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, THE CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
6. ALL NEW JUNCTION BOXES INSTALLED IN SIDEWALKS SHALL HAVE LOCKING AND SKID RESISTANT COATED LIDS AND FRAMES. JUNCTION BOXES SHALL NOT BE PLACED IN ADA CURB RAMPS OR ADA CURB RAMP LANDINGS.
7. THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR SHALL BE VERIFIED IN FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
8. EXISTING OR HIGHER ILLUMINATION LEVELS, SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION, BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#6(ILL), 2-#6(GFCI)	
3	3"	3-#3	FEEDER, NO GROUND
4	3"	6-#6(ILL), 6-#6(GFCI)	
5	2"	4-#6(ILL), 4-#6(GFCI)	
6	2"	2-#6(ILL), 2-#6(GFCI), 2-#8(RADAR)	
7	2"	2-#8(RADAR)	
8	2"	2-#8(ILL), 2-#6(GFCI), 2-#8(RRFB)	
9	2"	2-#8(RRFB)	
10	3"	2-#8(ILL), 2-#6(GFCI), 2-#8(RRFB), 2-#8(RADAR)	

NOTES
1. ALL NEW CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN IN THE TABLE ABOVE), UNLESS NOTED OTHERWISE. GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS NOTED OTHERWISE IN THE WIRE NOTES). SPARE/EMPTY CONDUITS SHALL CONTAIN DETECTABLE PULL TAPE AND SHALL BE LABELED CITY OF DUVALL CONDUIT.
2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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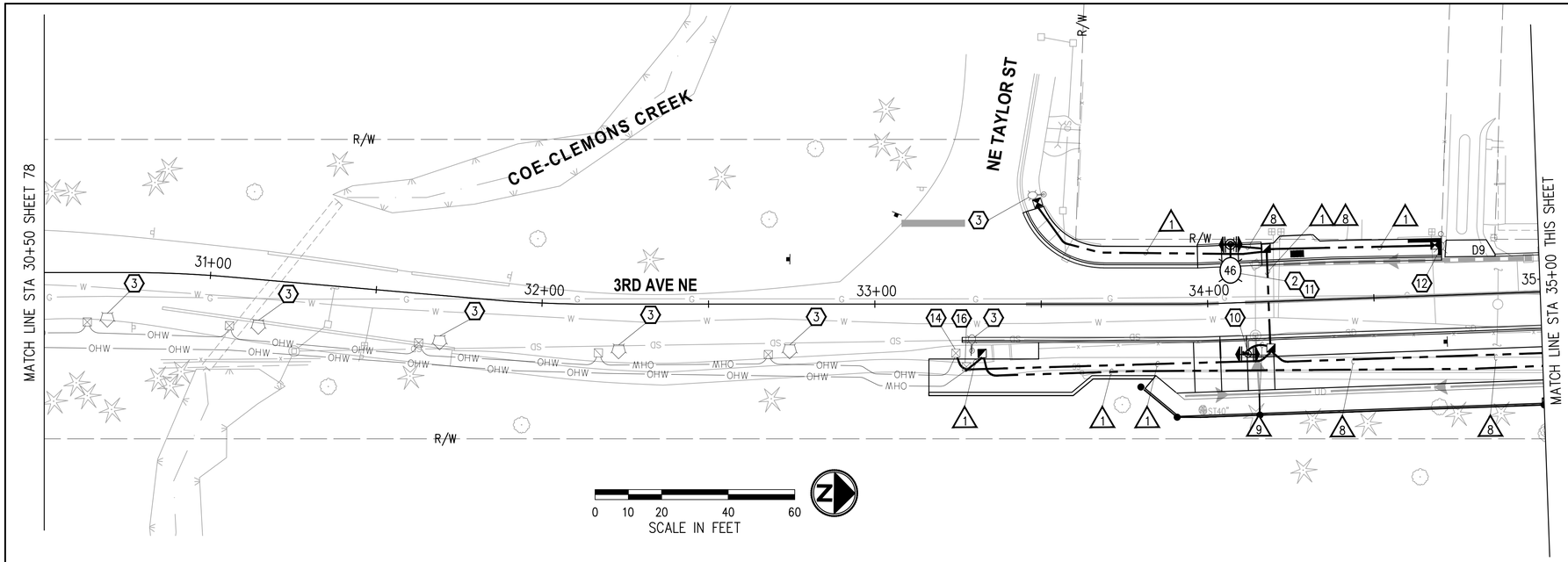
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 26+50 TO STA 30+50

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CONSTRUCTION NOTES

(2) CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 84 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 84. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS SECTIONS 6-07, 8-20 AND 9-29.

(3) EXISTING LUMINAIRE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING DURING CONSTRUCTION, WHERE APPLICABLE.

(10) INSTALL CURB BASE FOUNDATION PER WSDOT STD PLAN J-21.10 (FIXED, OMIT BREAKAWAY COUPLINGS AND ANCHOR BOLTS SHALL PROTRUDE AT LEAST 3" FROM THE TOP OF THE FOUNDATION). ANCHOR BOLT PLACEMENT SHALL PERMIT INSTALLATION OF BOX-TYPE BASE AND CIRCLE BOLT CONFIGURATION SHALL BE PER DETAILS, SHEET 86. FOUNDATION SHALL BE LOCATED AT STA 34+11.5, 15.5' RT. VERIFY LOCATION WITH THE ENGINEER IN THE FIELD. FURNISH AND INSTALL AC POWERED RRFB SYSTEM PER DETAILS SHEET 86. COORDINATE ORIENTATION OF RRFB PUSH BUTTON WITH THE ENGINEER IN THE FIELD PRIOR TO DRILLING HOLES. SEE SPECIAL PROVISIONS SECTIONS 6-07, 8-20 AND 9-29.

(11) FURNISH AND INSTALL AC POWERED RRFB SYSTEM ON LUMINAIRE POLE PER DETAILS SHEET 86. COORDINATE ORIENTATION OF RRFB PUSH BUTTON WITH THE ENGINEER IN THE FIELD PRIOR TO DRILLING HOLES. SEE SPECIAL PROVISIONS SECTIONS 6-07, 8-20 AND 9-29.

(12) EXISTING LUMINAIRE POLE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/WIRING DURING CONSTRUCTION. FURNISHING AND REPLACEMENT OF EXISTING WITH NEW 60W LUMINAIRE SHALL BE DONE BY OTHERS. COORDINATE WORK WITH PSE POLE SERVICES AND THE ENGINEER.

(14) ADD NEW CONDUIT TO EXISTING JUNCTION BOX. PROTECT EXISTING WIRING DURING CONSTRUCTION.

(16) REMOVE EXISTING JUNCTION BOX AND BACKFILL AND COMPACT VOID PER SPECIAL PROVISIONS. EXTEND EXISTING SPARE CONDUIT TO NEW JUNCTION BOX.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S2")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
46	34+07	17.6' LT	COBRA RDWY 68W, LED, II, 3000K, B1-U2-G2, 240V	6'	25'	FIXED	1	INSTALL RRFB SYSTEM ON POLE; NO GFCI RECEP.

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN THE ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF DUVALL STANDARDS, PUGET SOUND ENERGY STANDARDS, THESE PLANS AND SPECIAL PROVISIONS.
2. UTILITY LOCATION (DIAL-A-DIG) PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
3. THE LOCATION OF ALL CONDUIT, JUNCTION BOXES, AND LUMINAIRES SHOWN ON THIS PLAN ARE FOR GRAPHIC PRESENTATION ONLY. THE CONTRACTOR IS ALLOWED TO INSTALL CONDUIT IN THE JOINT UTILITY TRENCH WHERE PRACTICABLE. FINAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER IN THE FIELD.
4. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY REPRESENTATIVE (PSE), RAWLEY ROBINS AT (425) 456-2453 REGARDING THE ELECTRICAL SERVICE CONNECTION AND INSTALLATION OF THE METER BASE.
5. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, THE CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
6. ALL NEW JUNCTION BOXES INSTALLED IN SIDEWALKS SHALL HAVE LOCKING AND SKID RESISTANT COATED LIDS AND FRAMES. JUNCTION BOXES SHALL NOT BE PLACED IN ADA CURB RAMPS OR ADA CURB RAMP LANDINGS.
7. THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR SHALL BE VERIFIED IN FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
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WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#6(ILL), 2-#6(GFCI)	
3	3"	3-#3	FEEDER, NO GROUND
4	3"	6-#6(ILL), 6-#6(GFCI)	
5	2"	4-#6(ILL), 4-#6(GFCI)	
6	2"	2-#6(ILL), 2-#6(GFCI), 2-#8(RADAR)	
7	2"	2-#8(RADAR)	
8	2"	2-#8(ILL), 2-#6(GFCI), 2-#8(RRFB)	
9	2"	2-#8(RRFB)	
10	3"	2-#8(ILL), 2-#6(GFCI), 2-#8(RRFB), 2-#8(RADAR)	

NOTES
1. ALL NEW CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN IN THE TABLE ABOVE), UNLESS NOTED OTHERWISE. GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS NOTED OTHERWISE IN THE WIRE NOTES). SPARE/EMPTY CONDUITS SHALL CONTAIN DETECTABLE PULL TAPE AND SHALL BE LABELED CITY OF DUVALL CONDUIT.
2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

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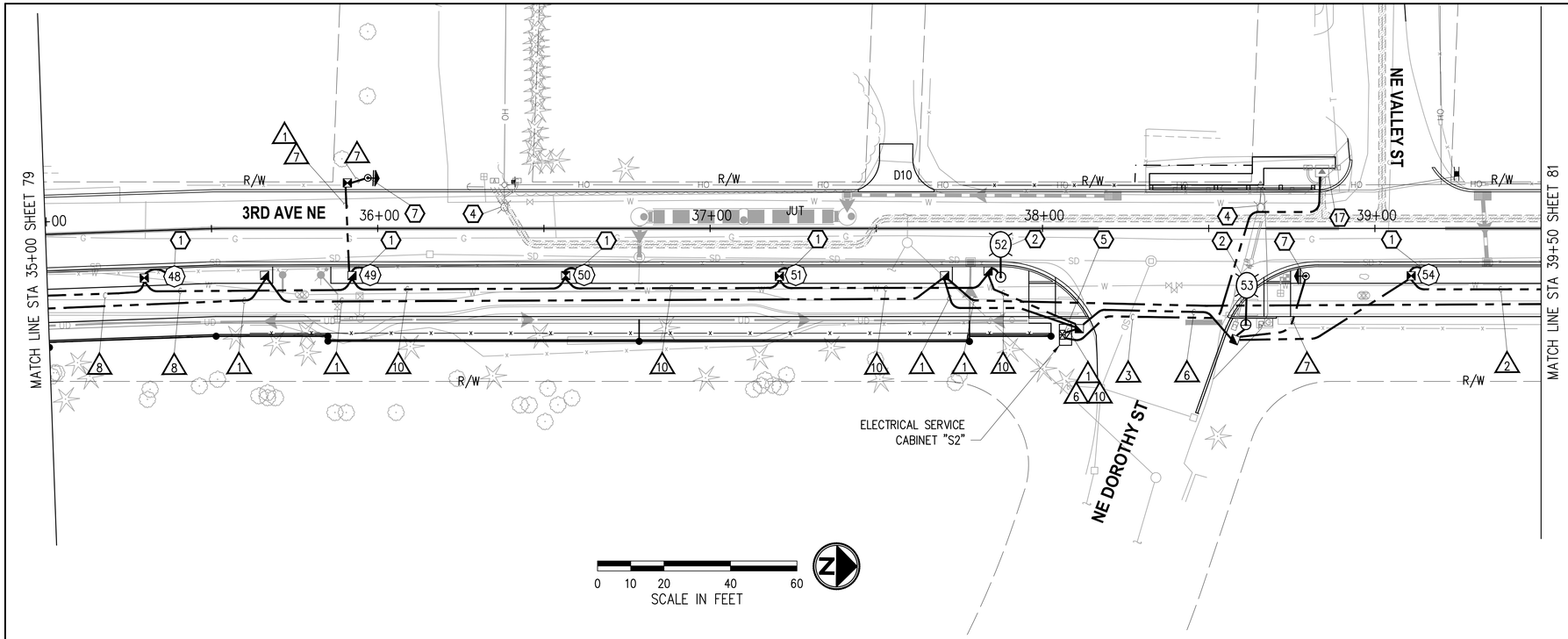
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 30+50 TO STA 35+00

KPG PROJECT No. 21078

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CONSTRUCTION NOTES

(1) CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 84 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE WHERE APPLICABLE). FURNISH AND INSTALL DECORATIVE PEDESTRIAN LUMINAIRE POLE, POST TOP DECORATIVE PEDESTRIAN LED LUMINAIRE, DECORATIVE BASE, AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 84. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS SECTIONS 6-07, 8-20 AND 9-29.

(2) CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 84 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 84. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS SECTIONS 6-07, 8-20 AND 9-29.

(4) EXISTING TIMBER UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS. COORDINATE WORK WITH THE PUGET SOUND ENERGY REPRESENTATIVE.

(5) CONSTRUCT ELECTRICAL SERVICE CABINET FOUNDATION PER WSDOT STD PLAN J-10.10. FURNISH AND INSTALL TYPE D ELECTRICAL SERVICE CABINET PER WSDOT STD PLAN J-10.21. FOR LOCATION, BREAKERS SCHEDULE AND ADDITIONAL INFORMATION, SEE PANEL SCHEDULE PER SHEET 84. VERIFY FINAL LOCATION WITH THE ENGINEER IN THE FIELD. COORDINATE ELECTRICAL METER BASE INSTALLATION WITH THE PSE REPRESENTATIVE. SEE SPECIAL PROVISIONS SECTIONS 8-20 AND 9-29.

(7) INSTALL FOUNDATION PER WSDOT STD PLAN J-21.10 (FIXED, OMIT BREAKAWAY COUPLINGS AND ANCHOR BOLTS SHALL PROTRUDE AT LEAST 3" FROM THE TOP OF THE FOUNDATION). ANCHOR BOLT PLACEMENT SHALL PERMIT INSTALLATION OF BOX-TYPE BASE AND CIRCLE BOLT CONFIGURATION SHALL BE PER DETAILS, SHEET 86. FURNISH AND INSTALL POLE AND 30" X 24" AC POWERED SPEED RADAR SIGN ASSEMBLY WITH 12" LED DISPLAY AND YELLOW BACKGROUND PER DETAILS, SHEET 86. LOCATION SHALL BE PER CHANNELIZATION & SIGNING PLANS. SEE SPECIAL PROVISIONS SECTIONS 6-07, 8-20 AND 9-29.

(17) POWER SOURCE LOCATION FOR PROPOSED ELECTRICAL SERVICE CABINET (TO BE CONFIRMED AT THE NEXT SUBMITTAL).

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S2")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
48	35+38	14.0' RT	DEC PED 60W, LED, III, 3000K, B1-U0-G1, 240V	–	15'	FIXED	1	
49	35+98	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	1	ORIENT TOWARDS SHARED USE PATH
50	36+62	14.0' RT	DEC PED 60W, LED, III, 3000K, B1-U0-G1, 240V	–	15'	FIXED	1	
51	37+26	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	1	ORIENT TOWARDS SHARED USE PATH
52	37+87	14.6' RT	COBRA RDWY 37W, LED, II, 3000K, B1-U1-G1, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
53	38+61	28.9' RT	COBRA RDWY 68W, LED, II, 3000K, B1-U2-G2, 240V	10'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD
54	39+16	13.9' RT	DEC PED 60W, LED, III, 3000K, B1-U0-G1, 240V	–	15'	FIXED	5	

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN THE ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF DUVALL STANDARDS, PUGET SOUND ENERGY STANDARDS, THESE PLANS AND SPECIAL PROVISIONS.
2. UTILITY LOCATION (DIAL-A-DIG) PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
3. THE LOCATION OF ALL CONDUIT, JUNCTION BOXES, AND LUMINAIRES SHOWN ON THIS PLAN ARE FOR GRAPHIC PRESENTATION ONLY. THE CONTRACTOR IS ALLOWED TO INSTALL CONDUIT IN THE JOINT UTILITY TRENCH WHERE PRACTICABLE. FINAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER IN THE FIELD.
4. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY REPRESENTATIVE (PSE), RAWLEY ROBINS AT (425) 456-2453 REGARDING THE ELECTRICAL SERVICE CONNECTION AND INSTALLATION OF THE METER BASE.
5. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, THE CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
6. ALL NEW JUNCTION BOXES INSTALLED IN SIDEWALKS SHALL HAVE LOCKING AND SKID RESISTANT COATED LIDS AND FRAMES. JUNCTION BOXES SHALL NOT BE PLACED IN ADA CURB RAMPS OR ADA CURB RAMP LANDINGS.
7. THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR SHALL BE VERIFIED IN FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
8. EXISTING OR HIGHER ILLUMINATION LEVELS, SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION, BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#6(ILL), 2-#6(GFCI)	
3	3"	3-#3	FEEDER, NO GROUND
4	3"	6-#6(ILL), 6-#6(GFCI)	
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7	2"	2-#8(RADAR)	
8	2"	2-#8(ILL), 2-#6(GFCI), 2-#8(RRFB)	
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NOTES
1. ALL NEW CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN IN THE TABLE ABOVE), UNLESS NOTED OTHERWISE. GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS NOTED OTHERWISE IN THE WIRE NOTES). SPARE/EMPTY CONDUITS SHALL CONTAIN DETECTABLE PULL TAPE AND SHALL BE LABELED CITY OF DUVALL CONDUIT.
2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

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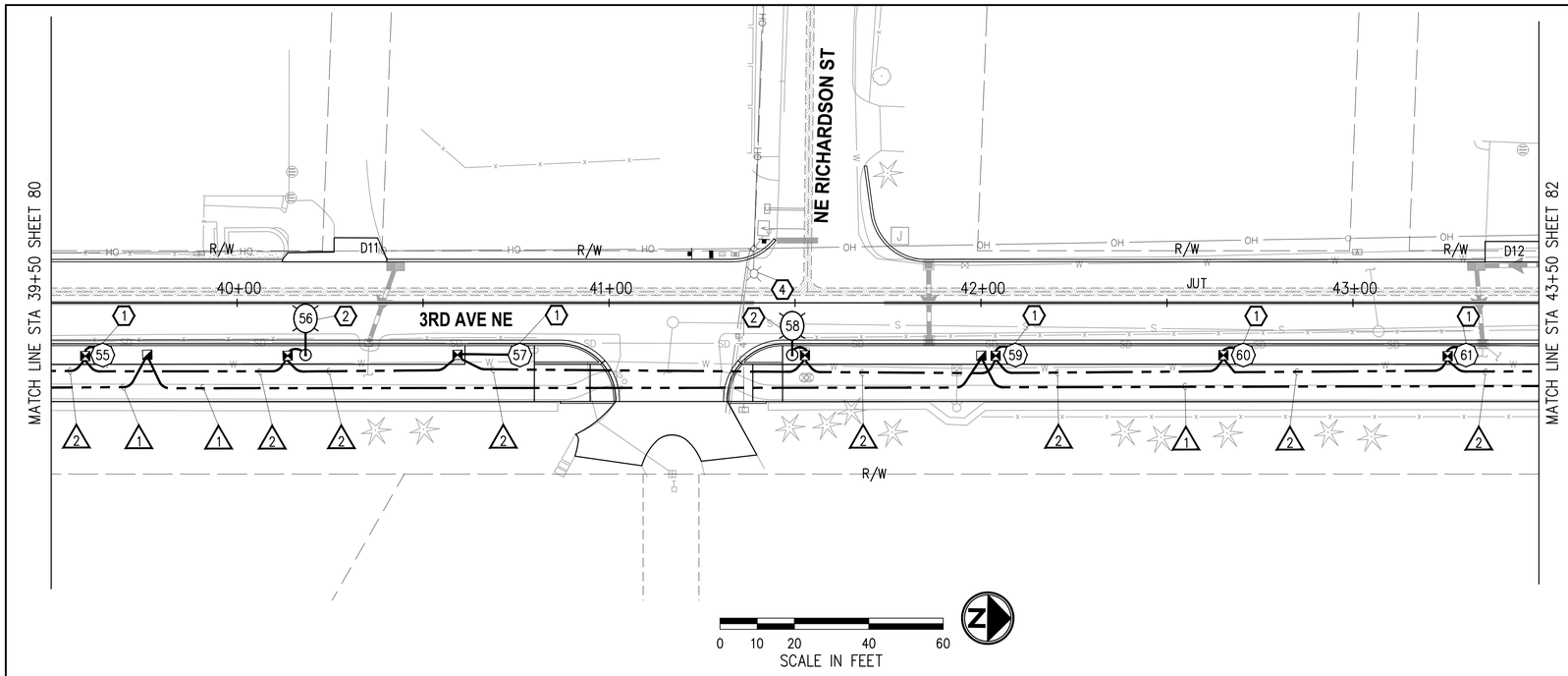
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CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 84 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE WHERE APPLICABLE). FURNISH AND INSTALL DECORATIVE PEDESTRIAN LUMINAIRE POLE, POST TOP DECORATIVE PEDESTRIAN LED LUMINAIRE, DECORATIVE BASE, AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 84. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS SECTIONS 6-07, 8-20 AND 9-29.
2. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 84 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 84. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS SECTIONS 6-07, 8-20 AND 9-29.
4. EXISTING TIMBER UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS. COORDINATE WORK WITH THE PUGET SOUND ENERGY REPRESENTATIVE.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S2")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
55	39+64	14.0' RT	DEC PED 25W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	5	ORIENT TOWARDS SHARED USE PATH
56	40+18	14.0' RT	COBRA RDWY 68W, LED, II, 3000K, B1-U0-G2, 240V	6'	25'	FIXED	5	DO NOT INSTALL HSS
57	40+76	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	5	ORIENT TOWARDS SHARED USE PATH
58	41+49	14.0' RT	COBRA RDWY 68W, LED, II, 3000K, B1-U0-G2, 240V	6'	25'	FIXED	5	DO NOT INSTALL HSS
59	42+09	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	5	ORIENT TOWARDS SHARED USE PATH
60	42+71	14.0' RT	DEC PED 60W, LED, III, 3000K, B1-U0-G1, 240V	–	15'	FIXED	5	
61	43+30	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	5	ORIENT TOWARDS SHARED USE PATH

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN THE ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF DUVALL STANDARDS, PUGET SOUND ENERGY STANDARDS, THESE PLANS AND SPECIAL PROVISIONS.
2. UTILITY LOCATION (DIAL-A-DIG) PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
3. THE LOCATION OF ALL CONDUIT, JUNCTION BOXES, AND LUMINAIRES SHOWN ON THIS PLAN ARE FOR GRAPHIC PRESENTATION ONLY. THE CONTRACTOR IS ALLOWED TO INSTALL CONDUIT IN THE JOINT UTILITY TRENCH WHERE PRACTICABLE. FINAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER IN THE FIELD.
4. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY REPRESENTATIVE (PSE), RAWLEY ROBINS AT (425) 456-2453 REGARDING THE ELECTRICAL SERVICE CONNECTION AND INSTALLATION OF THE METER BASE.
5. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, THE CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
6. ALL NEW JUNCTION BOXES INSTALLED IN SIDEWALKS SHALL HAVE LOCKING AND SKID RESISTANT COATED LIDS AND FRAMES. JUNCTION BOXES SHALL NOT BE PLACED IN ADA CURB RAMPS OR ADA CURB RAMP LANDINGS.
7. THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR SHALL BE VERIFIED IN FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
8. EXISTING OR HIGHER ILLUMINATION LEVELS, SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION, BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#6(ILL), 2-#6(GFCI)	
3	3"	3-#3	FEEDER, NO GROUND
4	3"	6-#6(ILL), 6-#6(GFCI)	
5	2"	4-#6(ILL), 4-#6(GFCI)	
6	2"	2-#6(ILL), 2-#6(GFCI), 2-#8(RADAR)	
7	2"	2-#8(RADAR)	
8	2"	2-#8(ILL), 2-#6(GFCI), 2-#8(RRFB)	
9	2"	2-#8(RRFB)	
10	3"	2-#8(ILL), 2-#6(GFCI), 2-#8(RRFB), 2-#8(RADAR)	

NOTES
1. ALL NEW CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN IN THE TABLE ABOVE), UNLESS NOTED OTHERWISE. GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS NOTED OTHERWISE IN THE WIRE NOTES). SPARE/EMPTY CONDUITS SHALL CONTAIN DETECTABLE PULL TAPE AND SHALL BE LABELED CITY OF DUVALL CONDUIT.
2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

NO.	DATE	BY	APPR.	REVISIONS

Approved By

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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JAN CIGANIK STATE OF WASHINGTON 39324 REGISTERED PROFESSIONAL ENGINEER

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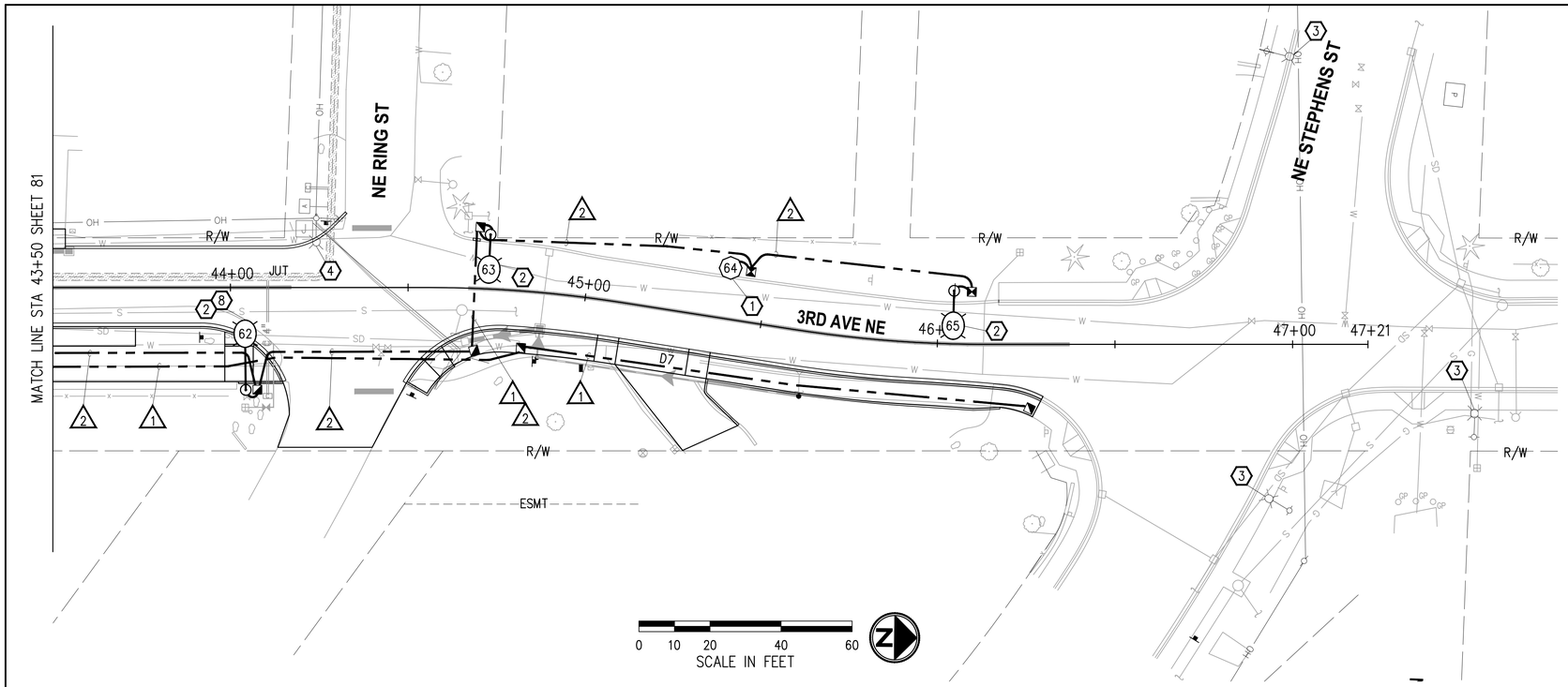
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 39+50 TO STA 43+50

KPG PROJECT No. 21078

SHT 81 OF 119

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CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J–28.30 (TYPE A) EXCEPT USE 4–BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 84 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE WHERE APPLICABLE). FURNISH AND INSTALL DECORATIVE PEDESTRIAN LUMINAIRE POLE, POST TOP DECORATIVE PEDESTRIAN LED LUMINAIRE, DECORATIVE BASE, AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 84. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J–28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3–#8 AWG). SEE SPECIAL PROVISIONS SECTIONS 6–07, 8–20 AND 9–29.
2. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J–28.30 (TYPE A) EXCEPT USE 4–BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 84 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 84. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J–28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3–#8 AWG). SEE SPECIAL PROVISIONS SECTIONS 6–07, 8–20 AND 9–29.
3. EXISTING LUMINAIRE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING DURING CONSTRUCTION, WHERE APPLICABLE.
4. EXISTING TIMBER UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS. COORDINATE WORK WITH THE PUGET SOUND ENERGY REPRESENTATIVE.
8. LUMINAIRE POLE FOUNDATION UTILITY CONFLICT. UTILITY TO BE RELOCATED BY OTHERS.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S2")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
62	44+04	28.8' RT	COBRA RDWY 68W, LED, II, 3000K, B1–U2–G2, 240V	12'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD
63	44+73	15.3' LT	COBRA RDWY 68W, LED, II, 3000K, B1–U2–G2, 240V	6'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD
64	45+39	14.4' LT	DEC PED 40W, LED, II, 3000K, B1–U0–G1, 240V	–	15'	FIXED	5	
65	46+04	15.0' LT	COBRA RDWY 50W, LED, III, 3000K, B1–U1–G2, 240V	6'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

GENERAL NOTES

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4. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY REPRESENTATIVE (PSE), RAWLEY ROBINS AT (425) 456–2453 REGARDING THE ELECTRICAL SERVICE CONNECTION AND INSTALLATION OF THE METER BASE.
5. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, THE CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
6. ALL NEW JUNCTION BOXES INSTALLED IN SIDEWALKS SHALL HAVE LOCKING AND SKID RESISTANT COATED LIDS AND FRAMES. JUNCTION BOXES SHALL NOT BE PLACED IN ADA CURB RAMPS OR ADA CURB RAMP LANDINGS.
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WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2–#6(ILL), 2–#6(GFCI)	
3	3"	3–#3	FEEDER, NO GROUND
4	3"	6–#6(ILL), 6–#6(GFCI)	
5	2"	4–#6(ILL), 4–#6(GFCI)	
6	2"	2–#6(ILL), 2–#6(GFCI), 2–#8(RADAR)	
7	2"	2–#8(RADAR)	
8	2"	2–#8(ILL), 2–#6(GFCI), 2–#8(RRFB)	
9	2"	2–#8(RRFB)	
10	3"	2–#8(ILL), 2–#6(GFCI), 2–#8(RRFB), 2–#8(RADAR)	

NOTES
1. ALL NEW CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN IN THE TABLE ABOVE), UNLESS NOTED OTHERWISE. GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS NOTED OTHERWISE IN THE WIRE NOTES). SPARE/EMPTY CONDUITS SHALL CONTAIN DETECTABLE PULL TAPE AND SHALL BE LABELED CITY OF DUVALL CONDUIT.
2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

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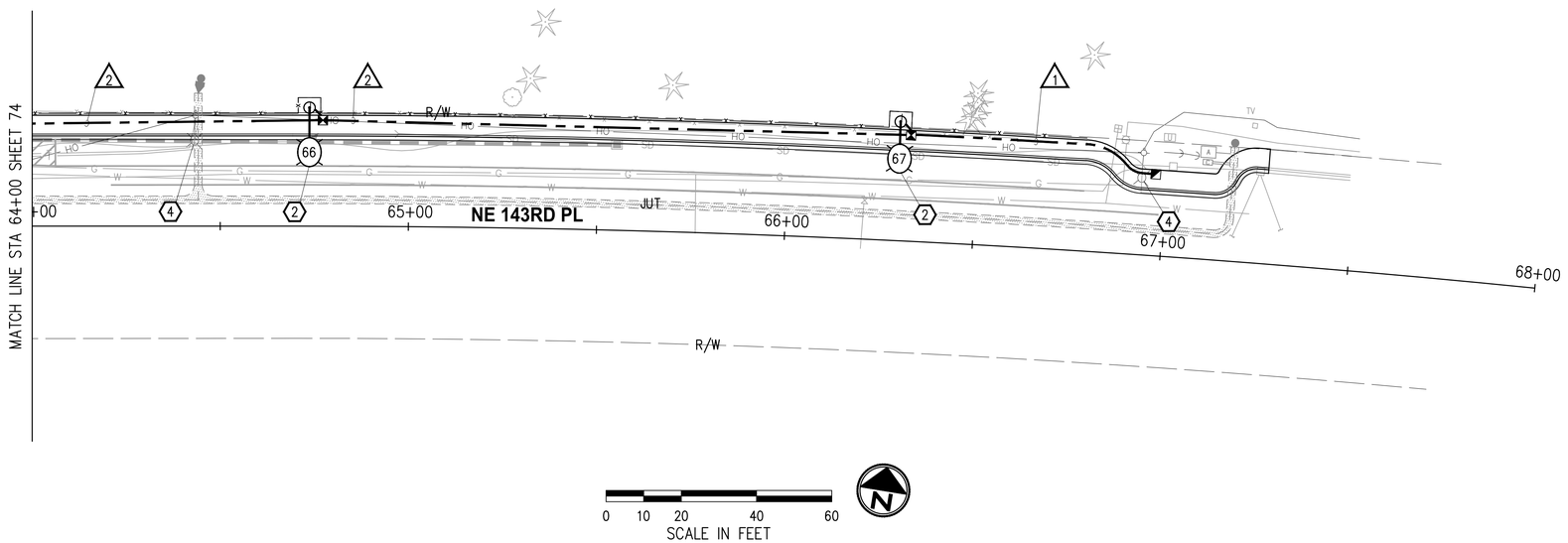
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 43+50 TO STA 47+21

KPG PROJECT No. 21078

SHT 82 OF 119

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CONSTRUCTION NOTES

(2) CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 84 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 84. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS SECTIONS 6-07, 8-20 AND 9-29.

(4) EXISTING TIMBER UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS. COORDINATE WORK WITH THE PUGET SOUND ENERGY REPRESENTATIVE.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S1")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
66	64+74	31.5' LT	COBRA RDWY 50W, LED, III, 3000K, B1-U1-G2, 240V	8'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD
67	66+29	31.7' LT	COBRA RDWY 68W, LED, II, 3000K, B1-U2-G2, 240V	6'	25'	FIXED	5	INSTALL HOUSE SIDE SHIELD

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

GENERAL NOTES

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WIRE NOTES

(#)	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#6(ILL), 2-#6(GFCI)	
3	3"	3-#3	FEEDER, NO GROUND
4	3"	6-#6(ILL), 6-#6(GFCI)	
5	2"	4-#6(ILL), 4-#6(GFCI)	
6	2"	2-#6(ILL), 2-#6(GFCI), 2-#8(RADAR)	
7	2"	2-#8(RADAR)	
8	2"	2-#8(ILL), 2-#6(GFCI), 2-#8(RRFB)	
9	2"	2-#8(RRFB)	
10	3"	2-#8(ILL), 2-#6(GFCI), 2-#8(RRFB), 2-#8(RADAR)	

NOTES
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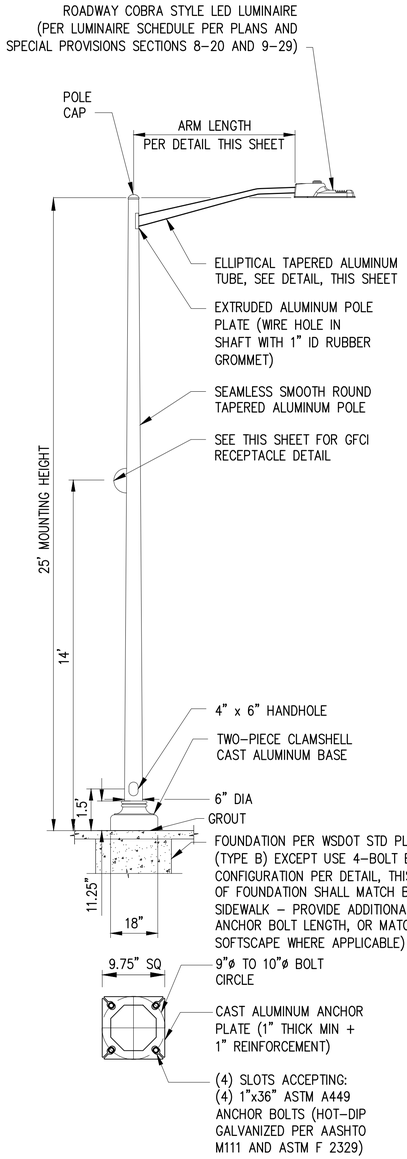
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3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 64+00 TO STA 68+00

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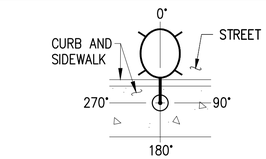
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PAINT SPECIFICATIONS:
ALL ALUMINUM POLE COMPONENTS AND LUMINAIRE FIXTURES SHALL BE FACTORY POWDER COATED WITH PRIMER AND FINISH PAINT. FOR PAINT COLOR AND APPLICATION PROCESS, SEE SECTION 6-07 OF THE SPECIAL PROVISIONS.

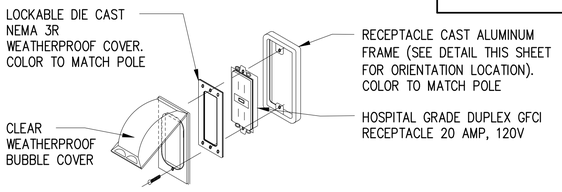


BASE PLATE DETAIL
NTS

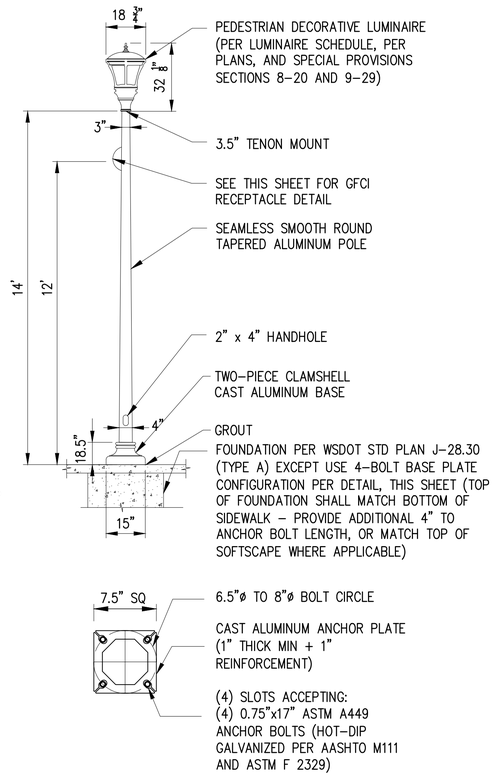
ROADWAY LUMINAIRE POLE DETAIL
NTS



HANDHOLE & RECEPTACLE ORIENTATION
1. HANDHOLE ACCESS DOOR SHALL BE MOUNTED AT 90°
2. RECEPTACLE SHALL BE MOUNTED AT 180°



GFCI RECEPTACLE DETAIL
NTS



BASE PLATE DETAIL
NTS

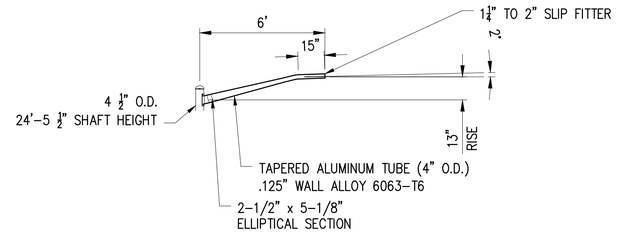
PEDESTRIAN LUMINAIRE POLE DETAIL
NTS

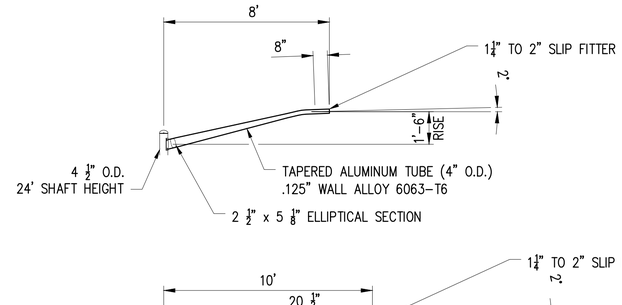
PANEL SCHEDULE

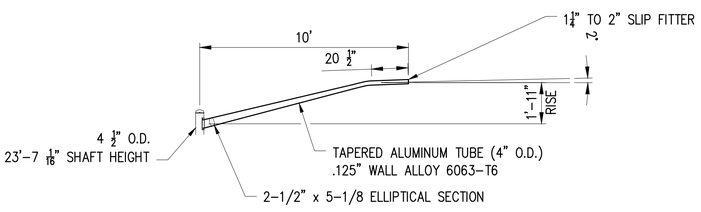
# S1	LOCATION: 3RD AVE NE & NE 145TH ST SERVING: ILLUMINATION, RECEPTACLES, SPEED RADAR		VOLTS: 120/240 PHASE: 1 MAIN BREAKER: 100 AMPS WIRE: 3				
CKT #	LOAD DESCRIPTION	KVA	TRIP AMPS		TRIP AMPS	KVA	LOAD DESCRIPTION	CKT #
1	ILLUMINATION (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 15, 16, 17, 18, 66, 67)	1.3	20	1 2	20	1.2	RECEPTACLE (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 15, 16, 17, 18, 66, 67)	2
				3 4	20	0.9	RECEPTACLE (19, 21, 27, 29, 30, 33, 35, 38, 39, 40, 41, 42, 44)	4
5	ILLUMINATION (19, 21, 27, 29, 30, 33, 35, 38, 39, 40, 41, 42, 44)	1.1	20	5 6	20	0.8	RECEPTACLE (20, 22, 24, 26, 28, 31, 32, 36, 37, 43, 45)	6
				7 8	20	1.0	SPEED RADAR (NE 144TH)	8
9	ILLUMINATION (20, 22, 24, 26, 28, 31, 32, 36, 37, 43, 45)	0.6	20	9 10	20	0.4	CABINET GFCI RECEPTACLE	10
				11 12	15	0.3	CONTROL (PHOTOCELL)	12
13	SPARE (ILLUMINATION)	–	20	13 14	–	–	SPARE	14
				15 16	–	–	SPARE	16
17	SPARE	–	–	17 18	–	–	SPARE	18
REMARKS:			CONNECTED LOAD: 7.6 KVA 31.7 AMPS DEMAND LOAD (125%): 9.5 KVA 38.0 AMPS					

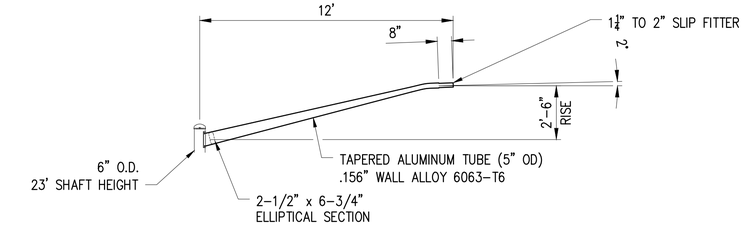
PANEL SCHEDULE

# S2	LOCATION: 3RD AVE NE & NE DOROTHY ST SERVING: ILLUMINATION, RECEPTACLES, SPEED RADAR, RRFB		VOLTS: 120/240 PHASE: 1 MAIN BREAKER: 100 AMPS WIRE: 3				
CKT #	LOAD DESCRIPTION	KVA	TRIP AMPS		TRIP AMPS	KVA	LOAD DESCRIPTION	CKT #
1	ILLUMINATION (46, 48, 49, 50, 51, 52)	0.5	20	1 2	20	0.5	RECEPTACLE (46, 48, 49, 50, 51, 52)	2
				3 4	20	0.8	RECEPTACLE (53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65)	4
5	ILLUMINATION (53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65)	0.9	20	5 6	20	1.0	RRFB (NE 144TH)	6
				7 8	20	1.0	SPEED RADAR (NE DOROTHY ST)	8
9	SPARE (ILLUMINATION)	–	20	9 10	20	0.4	CABINET GFCI RECEPTACLE	10
				11 12	15	0.3	CONTROL (PHOTOCELL)	12
13	SPARE (ILLUMINATION)	–	20	13 14	–	–	SPARE	14
				15 16	–	–	SPARE	16
17	SPARE	–	–	17 18	–	–	SPARE	18
REMARKS:			CONNECTED LOAD: 5.4 KVA 22.5 AMPS DEMAND LOAD (125%): 6.8 KVA 28.2 AMPS					









ROADWAY LUMINAIRE ARM DETAILS
NTS

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT ENGINEER	DATE

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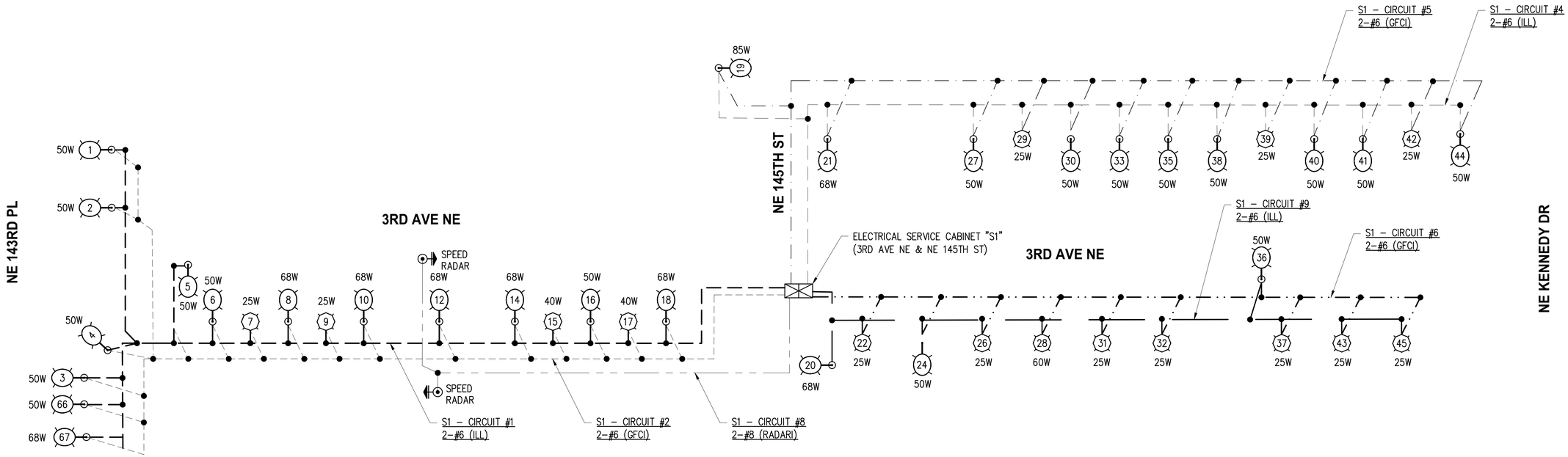
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3RD AVENUE NE RECONSTRUCTION

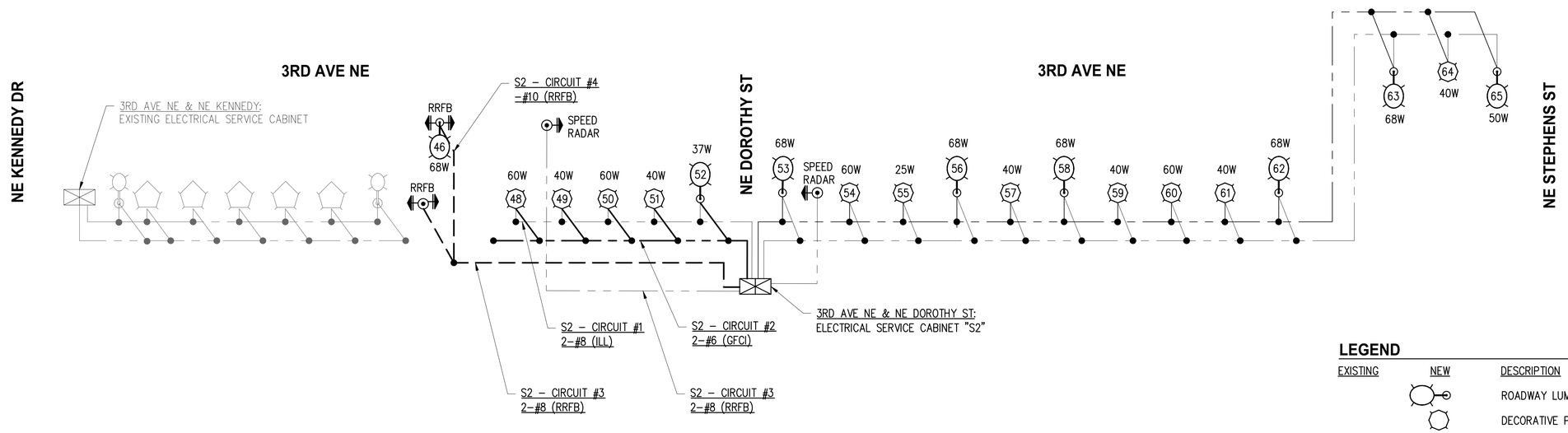
ILLUMINATION DETAILS

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SHT 84 OF 119

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ONE-LINE DIAGRAM

NTS

LEGEND

EXISTING	NEW	DESCRIPTION
		ROADWAY LUMINAIRE
		DECORATIVE PEDESTRIAN LUMINAIRE
		ELECTRICAL SERVICE CABINET
		WIRE SPLICE
		SPEED RADAR / RRFB (RECTANGULAR RAPID FLASHING BEACON)

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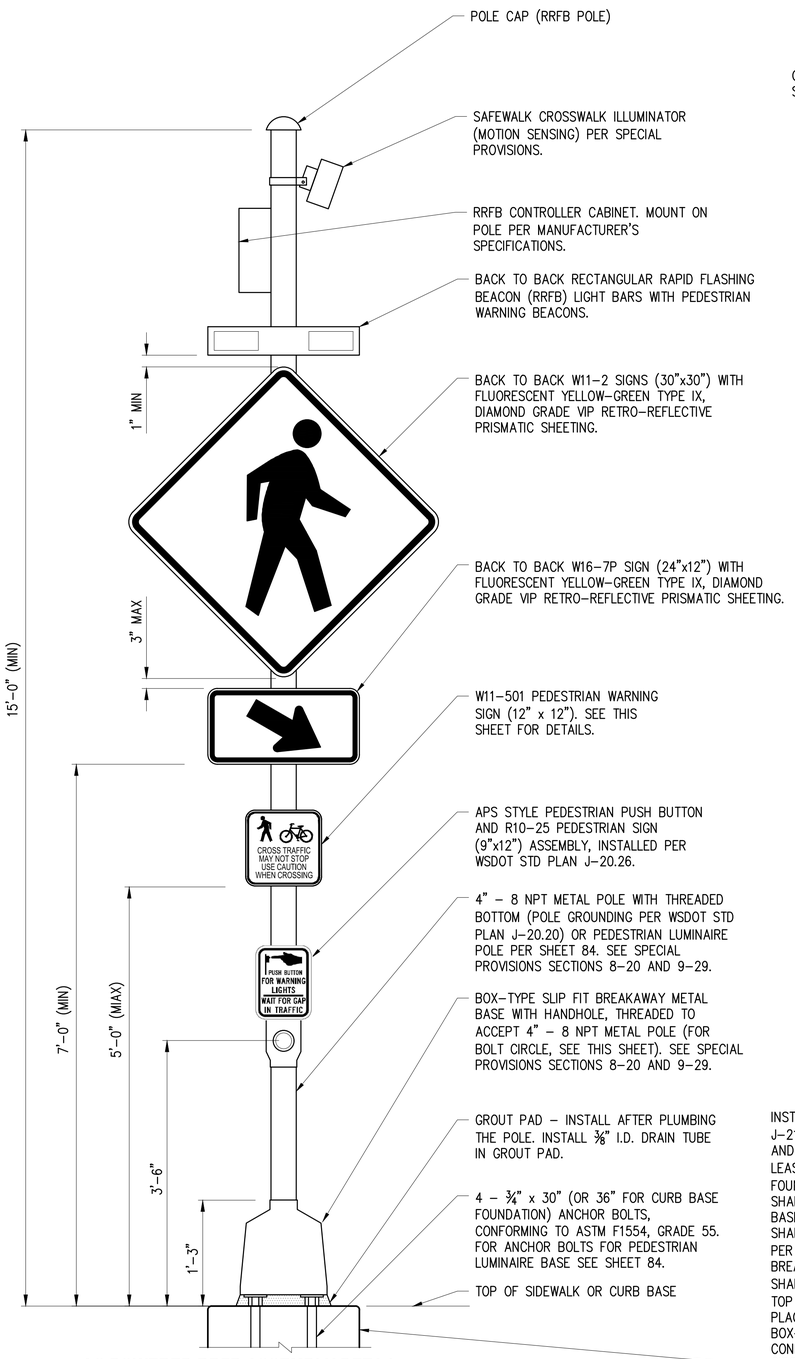
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ILLUMINATION DETAILS

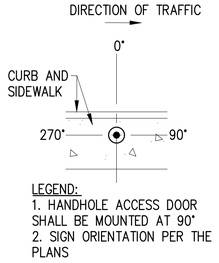
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AC POWERED RRFB ASSEMBLY DETAIL
NTS



LEGEND:
1. HANDHOLE ACCESS DOOR SHALL BE MOUNTED AT 90°
2. SIGN ORIENTATION PER THE PLANS



W11-501 PEDESTRIAN WARNING SIGN DETAILS

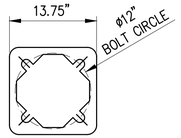


PEDESTRIAN PUSH BUTTON SIGN DETAILS
NTS

NOTE: SIGN SHALL BE BLACK ON WHITE WITH BLACK LETTERING

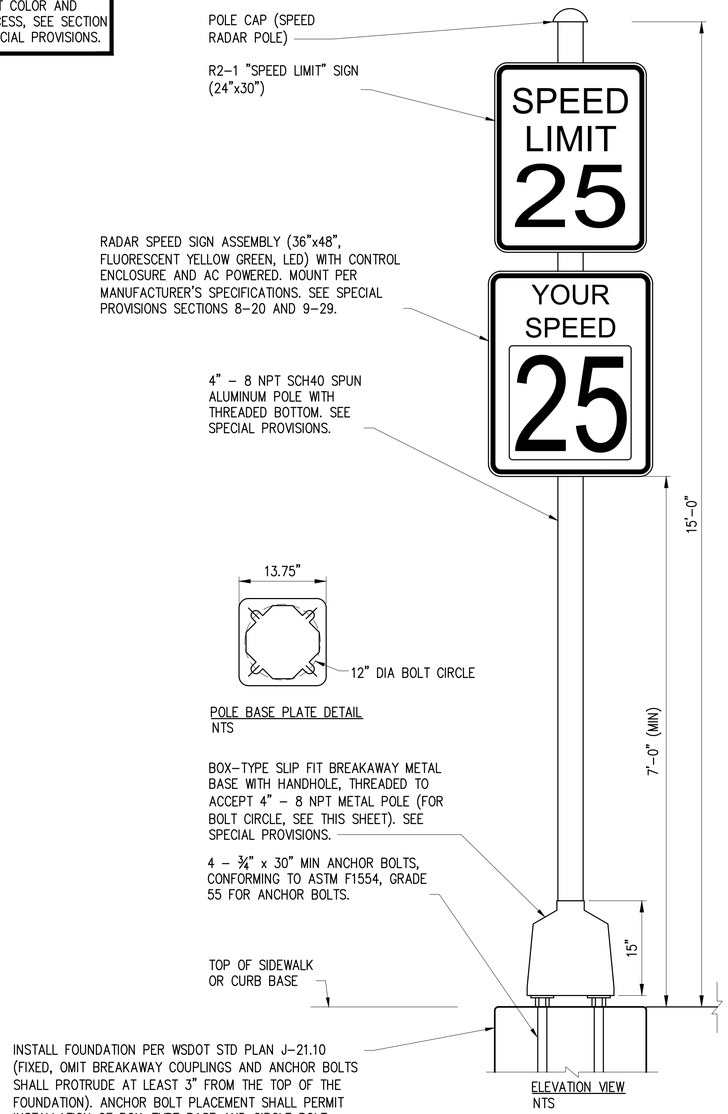
NOTE:
1. SIGNS SHALL BE INSTALLED PER COT STD DETAIL RS-23A AND RS-23B.
2. SIGNS ARE NOT TO SCALE.
3. ALL SIGN DIMENSIONS SHALL BE VERIFIED WITH THE ENGINEER AND MANUFACTURER PRIOR TO FABRICATION.
4. EACH W11-2 NEW SIGN ASSEMBLY SHALL INCLUDE 12" x 12" ORANGE FLAG (RETRO-REFLECTIVE SHEETING), LOCATED AT THE TOP OF ASSEMBLY AND ORIENTED AT 45° TO FLAG AS NEW SIGN.

INSTALL FOUNDATION PER WSDOT STD PLAN J-21.10 (FIXED, OMIT BREAKAWAY COUPLINGS AND ANCHOR BOLTS SHALL PROTRUDE AT LEAST 3" FROM THE TOP OF THE FOUNDATION). ANCHOR BOLT PLACEMENT SHALL PERMIT INSTALLATION OF BOX-TYPE BASE AND CIRCLE BOLT CONFIGURATION SHALL BE PER DETAILINSTALL FOUNDATION PER WSDOT STD PLAN J-21.10 (FIXED, OMIT BREAKAWAY COUPLINGS AND ANCHOR BOLTS SHALL PROTRUDE AT LEAST 3" FROM THE TOP OF THE FOUNDATION). ANCHOR BOLT PLACEMENT SHALL PERMIT INSTALLATION OF BOX-TYPE BASE AND CIRCLE BOLT CONFIGURATION SHALL BE PER RRFB BOLT CIRCLE DETAIL, THIS SHEET.



RRFB POLE BOLT CIRCLE
NTS

PAINT SPECIFICATIONS:
ALL POLES, BASES AND CAPS SHALL BE FACTORY POWDER COATED WITH PRIMER AND FINISH PAINT. FOR PAINT COLOR AND APPLICATION PROCESS, SEE SECTION 6-07 OF THE SPECIAL PROVISIONS.



POLE BASE PLATE DETAIL
NTS

ELEVATION VIEW
NTS

NOTE:
WHEN PLACED IN SIDEWALK, RADAR SPEED SIGN SHALL BE LOCATED MIN 2 FEET FROM FACE OF CURB (FACE OF POLE TO FACE OF PAVEMENT) AND SHALL PROVIDE 4' MIN PEDESTRIAN ACCESS ROUTE CLEARANCE.

AC POWERED RADAR SPEED SIGN DETAIL
NTS

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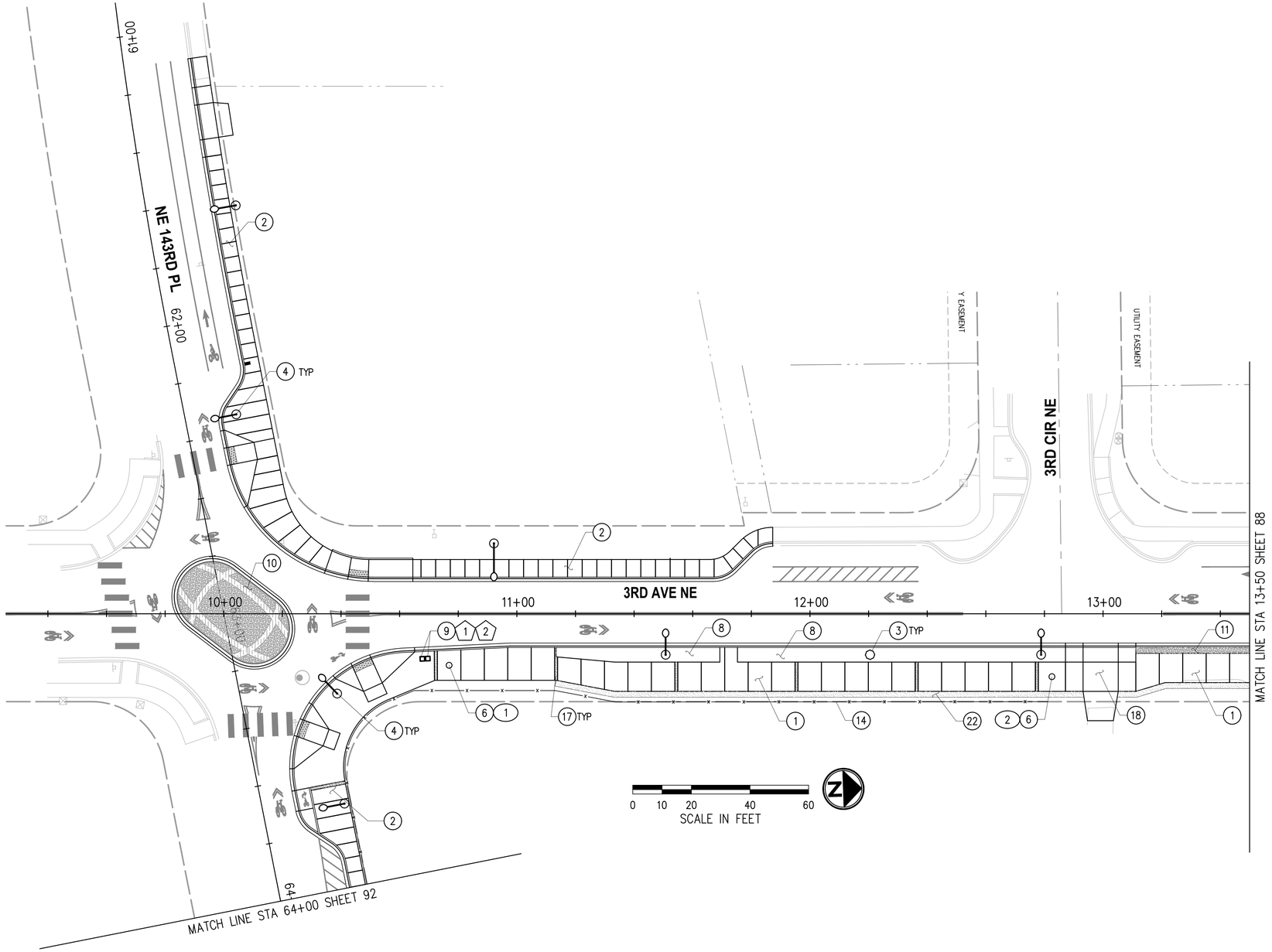
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ILLUMINATION DETAILS

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SHT 86 OF 119

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GENERAL NOTES

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2. DECORATIVE ROADWAY AND PEDESTRIAN LUMINAIRE POLE LOCATION AND DETAILS SHALL BE PER ILLUMINATION PLANS & DETAILS, SHEETS 74–86.

CONSTRUCTION NOTES

(1) CEMENT CONC. SIDEWALK. SEE URBAN DESIGN DETAILS, SHEET 93.

(2) CEMENT CONC SIDEWALK PER COD STANDARDS.

(3) DECORATIVE PEDESTRIAN LUMINAIRE. SEE ILLUMINATION DETAILS, SHEETS 84–86.

(4) ROADWAY LUMINAIRE. SEE ILLUMINATION DETAILS, SHEETS 84–86.

(6) SHARED USE PATH MARKER. SEE URBAN DESIGN DETAIL, SHEET 94.

(8) PLANTER. SEE LANDSCAPE PLANS AND DETAILS, SHEETS 95–101.

(9) TRASH AND RECYCLE RECEPTACLE. SEE URBAN DESIGN DETAIL, SHEET 94.

(10) SURFACE TREATMENTS AT MINI ROUNDABOUT. SEE URBAN DESIGN DETAIL, SHEET 93.

(11) SURFACE TREATMENT A AT SIDEWALK. SEE URBAN DESIGN DETAIL, SHEET 93.

(14) CHAIN LINK FENCE. SEE ROADWAY DETAIL, SHEET 10.

(17) ACCENT BAND TREATMENT. SEE URBAN DESIGN DETAIL, SHEET 93.

(18) CEMENT CONC DRIVEWAY. SEE URBAN DESIGN DETAIL, SHEET 93.

(22) CRUSHED SURFACING TOP COURSE. SEE TYPICAL ROADWAY SECTIONS, SHEETS 5–7.

TRAIL MARKER SCHEDULE

STATION	OFFSET	SYMBOL #
10+76.88	17.60' RT	(1)
12+82.54	21.48' RT	(2)

TRASH-RECYCLE SCHEDULE

STATION	OFFSET	SYMBOL #
10+67.76	15.39' RT	1
10+69.62	15.31' RT	2

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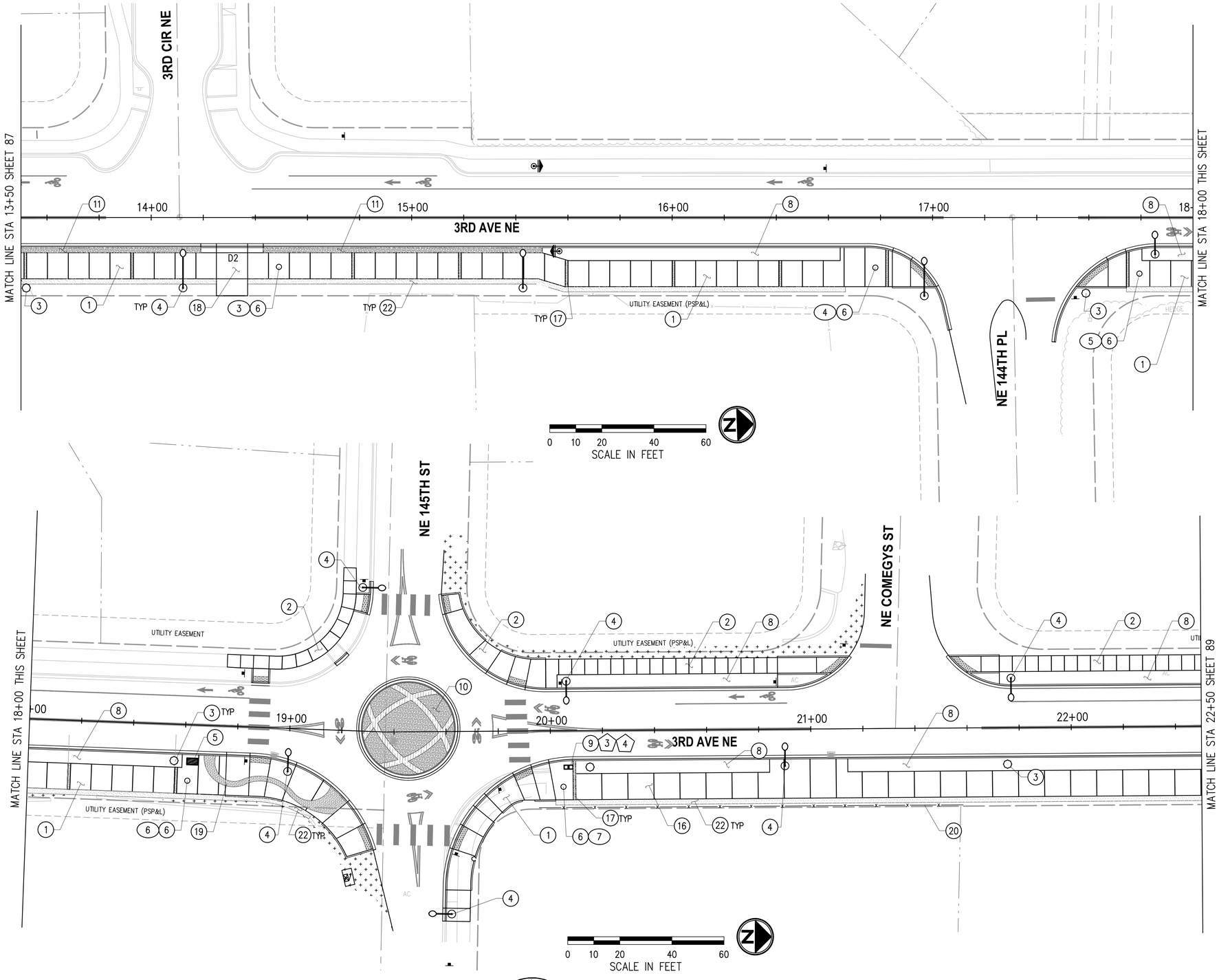
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

URBAN DESIGN PLAN
STA 9+25 TO STA 13+50 AND
STA 61+00 TO STA 64+00

KPG PROJECT No. 21078 | SHT 87 OF 119



GENERAL NOTES

1. STATION/OFFSET SHALL BE TAKEN FROM CENTER OF FEATURE UNLESS OTHERWISE NOTED.
2. DECORATIVE ROADWAY AND PEDESTRIAN LUMINAIRE POLE LOCATION AND DETAILS SHALL BE PER ILLUMINATION PLANS & DETAILS, SHEETS 74–86.

CONSTRUCTION NOTES

(1) CEMENT CONC. SIDEWALK. SEE URBAN DESIGN DETAILS, SHEET 93.

(2) CEMENT CONC SIDEWALK PER COD STANDARDS.

(3) DECORATIVE PEDESTRIAN LUMINAIRE. SEE ILLUMINATION DETAILS, SHEETS 84–86.

(4) ROADWAY LUMINAIRE. SEE ILLUMINATION DETAILS, SHEETS 84–86.

(5) METAL BENCH. SEE URBAN DESIGN DETAIL, SHEET 94.

(6) SHARED USE PATH MARKER. SEE URBAN DESIGN DETAIL, SHEET 94.

(8) PLANTER. SEE LANDSCAPE PLANS AND DETAILS, SHEETS 95–101.

(9) TRASH AND RECYCLE RECEPTACLE. SEE URBAN DESIGN DETAIL, SHEET 94.

(10) SURFACE TREATMENTS AT MINI ROUNDABOUT. SEE URBAN DESIGN DETAIL, SHEET 93.

(11) SURFACE TREATMENT A AT SIDEWALK. SEE URBAN DESIGN DETAIL, SHEET 93.

(16) PERVIOUS CONC SIDEWALK. SEE ROADWAY PLAN, SHEETS 23–33.

(17) ACCENT BAND TREATMENT. SEE URBAN DESIGN DETAIL, SHEET 93.

(18) CEMENT CONC DRIVEWAY. SEE URBAN DESIGN DETAIL, SHEET 93.

(19) ACCENT SURFACE TREATMENT; 22SY AREA. SEE URBAN DESIGN DETAIL, SHEET 93.

(20) RE–INSTALL WHITE POST AND RAIL FENCE.

(22) CRUSHED SURFACING TOP COURSE. SEE TYPICAL ROADWAY SECTIONS, SHEETS 5–7.

TRAIL MARKER SCHEDULE

STATION	OFFSET	SYMBOL #
14+49.04	18.93' RT	(3)
16+78.06	19.14' RT	(4)
17+79.43	21.50' RT	(5)
18+61.37	21.50' RT	(6)
20+04.93	21.50' RT	(7)

TRASH-RECYCLE SCHEDULE

STATION	OFFSET	SYMBOL #
20+05.99	13.98' RT	(3)
20+07.83	13.99' RT	(4)

METAL BENCH SCHEDULE

STATION	OFFSET
18+63.06	14.07' RT

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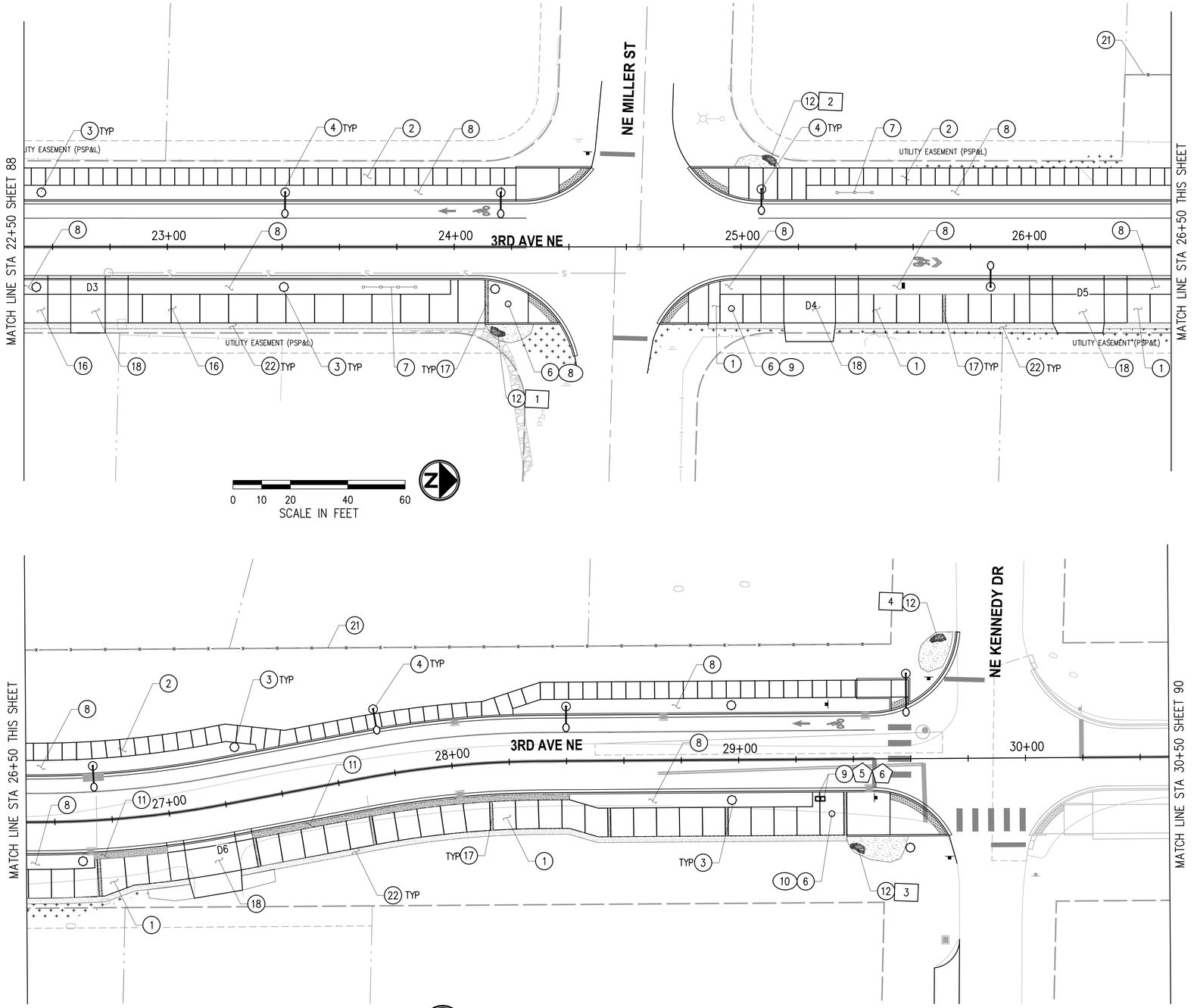
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CITY OF DUVALL
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URBAN DESIGN PLAN
STA 13+50 TO STA 22+50

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GENERAL NOTES

1. STATION/OFFSET SHALL BE TAKEN FROM CENTER OF FEATURE UNLESS OTHERWISE NOTED.
2. DECORATIVE ROADWAY AND PEDESTRIAN LUMINAIRE POLE LOCATION AND DETAILS SHALL BE PER ILLUMINATION PLANS & DETAILS, SHEETS 74–86.

CONSTRUCTION NOTES

(1) CEMENT CONC. SIDEWALK. SEE URBAN DESIGN DETAILS, SHEET 93.

(2) CEMENT CONC SIDEWALK PER COD STANDARDS.

(3) DECORATIVE PEDESTRIAN LUMINAIRE. SEE ILLUMINATION DETAILS, SHEETS 84–86.

(4) ROADWAY LUMINAIRE. SEE ILLUMINATION DETAILS, SHEETS 84–86.

(6) SHARED USE PATH MARKER. SEE URBAN DESIGN DETAIL, SHEET 94.

(7) 2–RAIL POLE FENCE. SEE URBAN DESIGN DETAIL, SHEET 94.

(8) PLANTER. SEE LANDSCAPE PLANS AND DETAILS, SHEETS 95–101.

(9) TRASH AND RECYCLE RECEPTACLE. SEE URBAN DESIGN DETAIL, SHEET 94.

(11) SURFACE TREATMENT A AT SIDEWALK. SEE URBAN DESIGN DETAIL, SHEET 93.

(12) BOULDER BENCH. SEE URBAN DESIGN DETAIL, SHEET 94.

(16) PERVIOUS CONC SIDEWALK. SEE ROADWAY PLAN, SHEETS 23–33.

(17) ACCENT BAND TREATMENT. SEE URBAN DESIGN DETAIL, SHEET 93.

(18) CEMENT CONC DRIVEWAY. SEE URBAN DESIGN DETAIL, SHEET 93.

(21) BOARD FENCE. SEE TYPICAL ROADWAY DETAIL, SHEET 10.

(22) CRUSHED SURFACING TOP COURSE. SEE TYPICAL ROADWAY SECTIONS, SHEETS 5–7.

TRAIL MARKER SCHEDULE

STATION	OFFSET	SYMBOL #
24+18.81	19.87' RT	(8)
24+96.67	21.50' RT	(9)
29+32.37	19.00' RT	(10)

BOULDER BENCH SCHEDULE

STATION	OFFSET	SYMBOL #
24+15.10	29.64' RT	[1]
25+10.02	30.21' LT	[2]
29+41.37	31.03' RT	[3]
29+69.70	41.70' LT	[4]

TRASH-RECYCLE SCHEDULE

STATION	OFFSET	SYMBOL #
29+27.47	13.76' RT	(5)
29+29.22	13.78' RT	(6)

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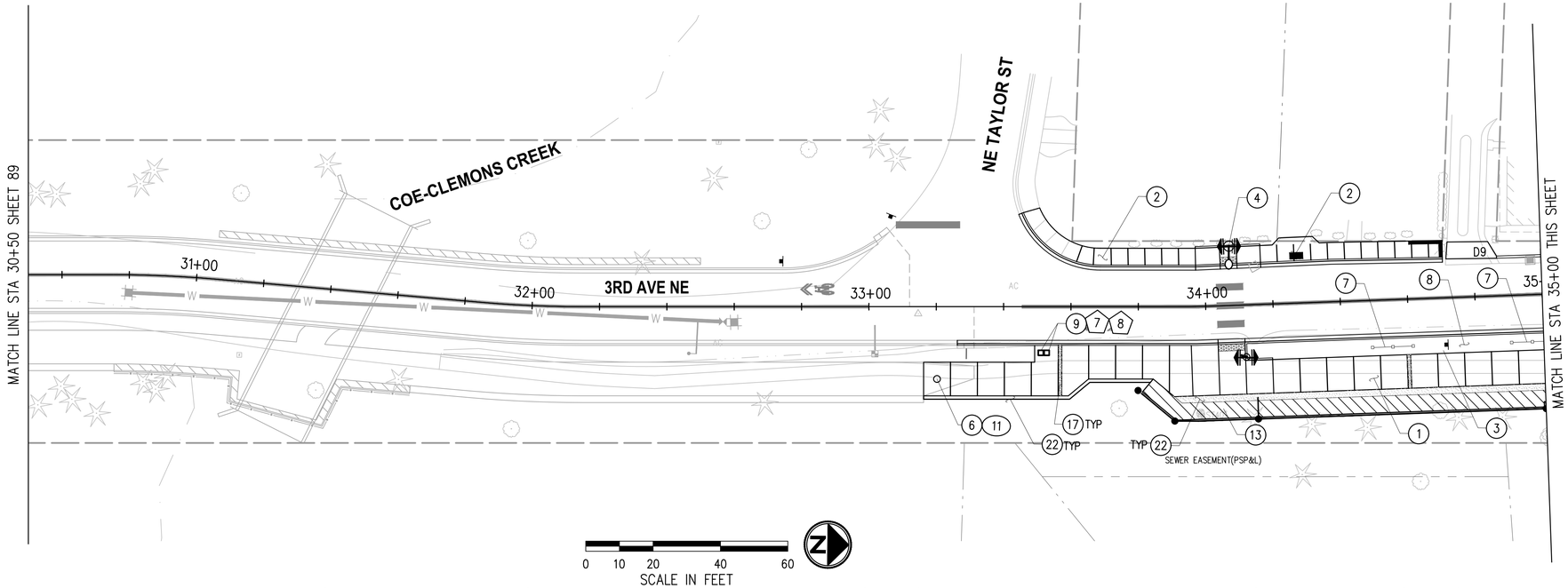
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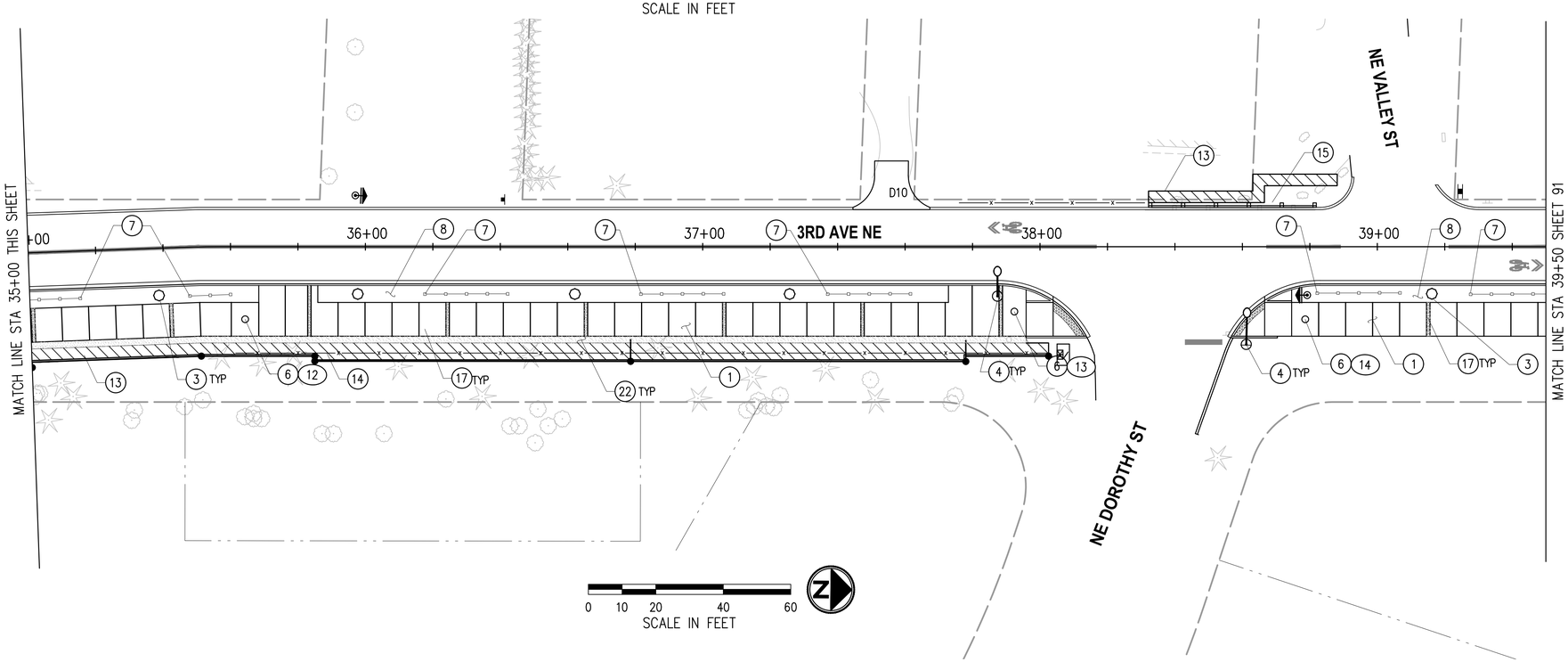
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URBAN DESIGN PLAN
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GENERAL NOTES

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2. DECORATIVE ROADWAY AND PEDESTRIAN LUMINAIRE POLE LOCATION AND DETAILS SHALL BE PER ILLUMINATION PLANS & DETAILS, SHEETS 74–86.

CONSTRUCTION NOTES

(1) CEMENT CONC. SIDEWALK. SEE URBAN DESIGN DETAILS, SHEET 93.

(2) CEMENT CONC SIDEWALK PER COD STANDARDS.

(3) DECORATIVE PEDESTRIAN LUMINAIRE. SEE ILLUMINATION DETAILS, SHEETS 84–86.

(4) ROADWAY LUMINAIRE. SEE ILLUMINATION DETAILS, SHEETS 84–86.

(6) SHARED USE PATH MARKER. SEE URBAN DESIGN DETAIL, SHEET 94.

(7) 2–RAIL POLE FENCE. SEE URBAN DESIGN DETAIL, SHEET 94.

(8) PLANTER. SEE LANDSCAPE PLANS AND DETAILS, SHEETS 95–101.

(9) TRASH AND RECYCLE RECEPTACLE. SEE URBAN DESIGN DETAIL, SHEET 94.

(13) RETAINING WALL. SEE RETAINING WALL DETAILS, SHEET 58–59.

(14) CHAIN LINK FENCE. SEE ROADWAY DETAIL, SHEET 10.

(15) GUARDRAIL. SEE ROADWAY DETAILS, SHEET ##.

(17) ACCENT BAND TREATMENT. SEE URBAN DESIGN DETAIL, SHEET 93.

(22) CRUSHED SURFACING TOP COURSE. SEE TYPICAL ROADWAY SECTIONS, SHEETS 5–7.

TRAIL MARKER SCHEDULE

STATION	OFFSET	SYMBOL #
33+20.22	21.49' RT	(11)
35+64.36	21.49' RT	(12)
37+92.40	19.21' RT	(13)
38+78.64	21.50' RT	(14)

TRASH-RECYCLE SCHEDULE

STATION	OFFSET	SYMBOL #
33+51.04	13.71' RT	(7)
33+52.79	13.72' RT	(8)

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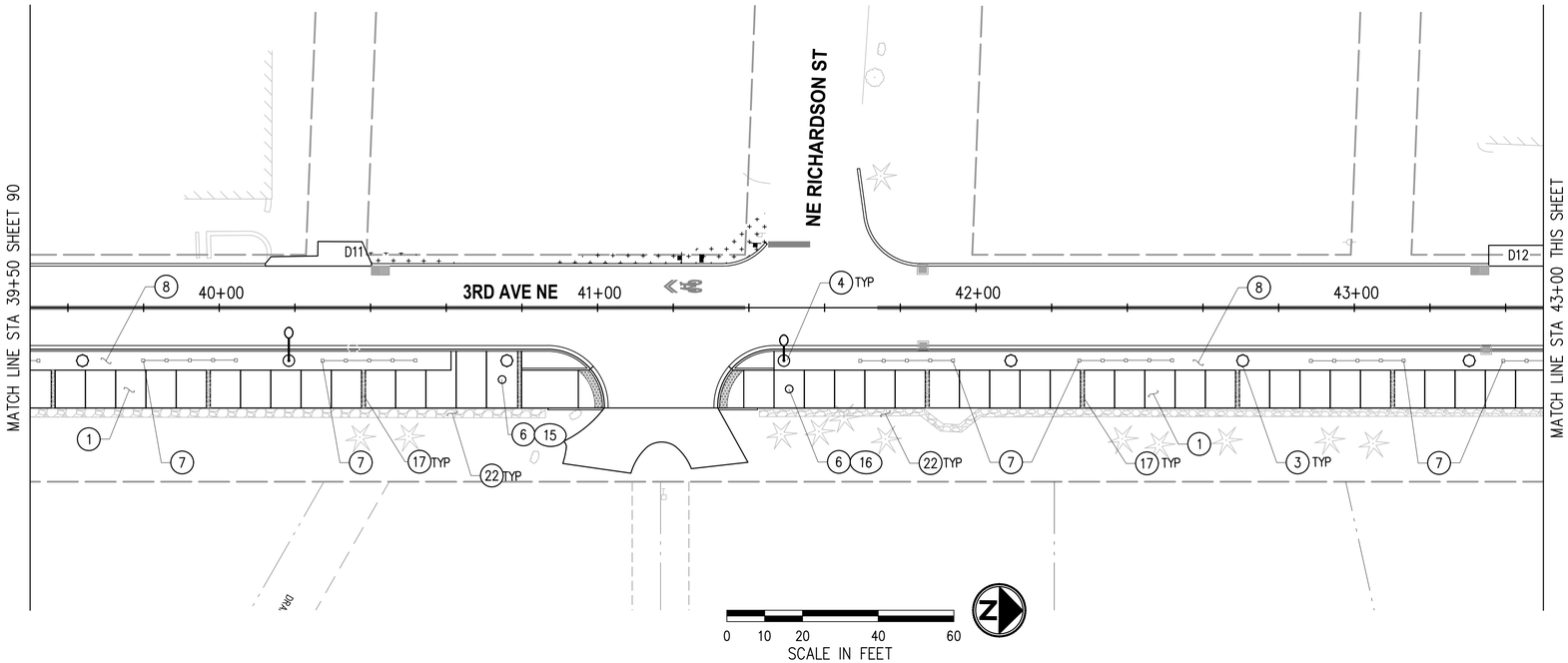
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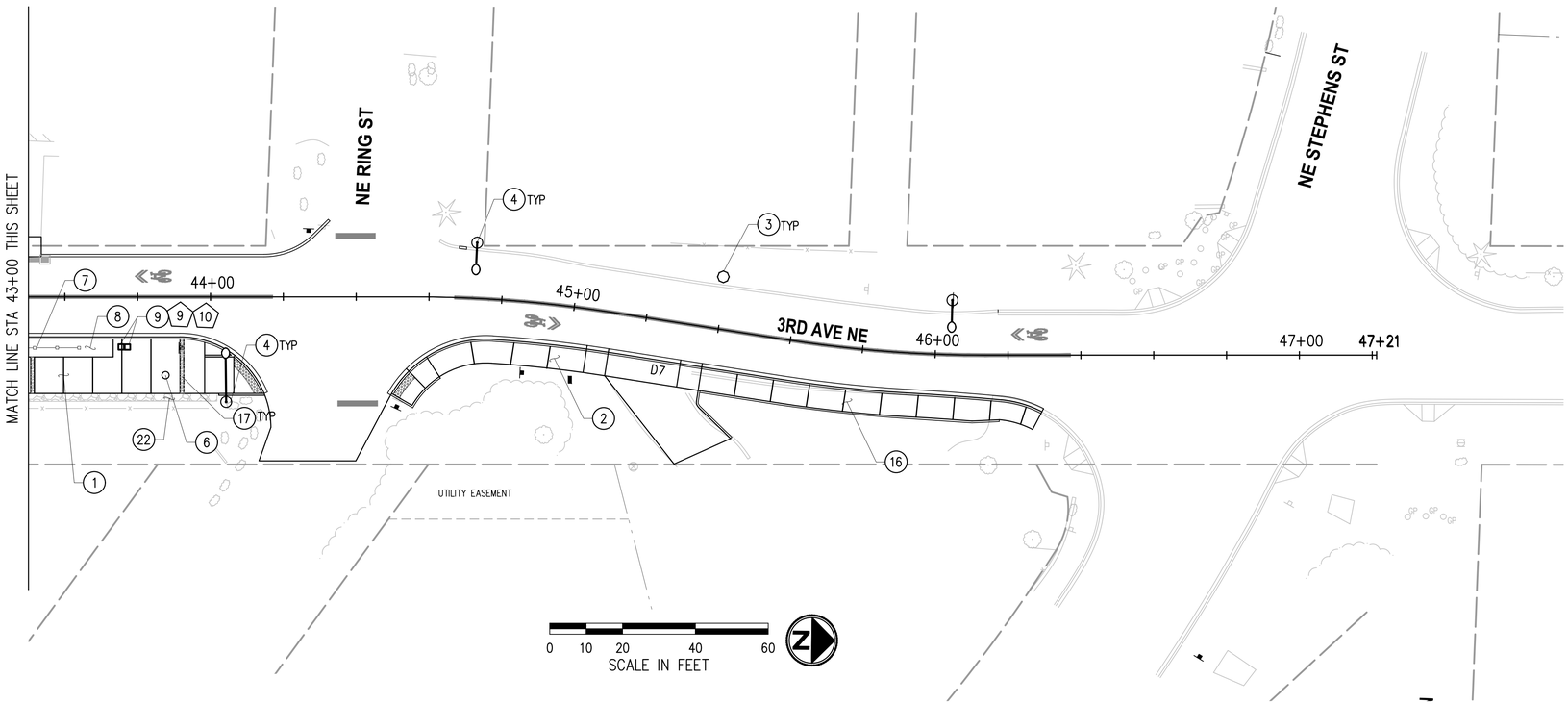
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(2) CEMENT CONC SIDEWALK PER COD STANDARDS.

(3) DECORATIVE PEDESTRIAN LUMINAIRE. SEE ILLUMINATION DETAILS, SHEETS 84–86.

(4) ROADWAY LUMINAIRE. SEE ILLUMINATION DETAILS, SHEETS 84–86.

(6) SHARED USE PATH MARKER. SEE URBAN DESIGN DETAIL, SHEET 94.

(7) 2–RAIL POLE FENCE. SEE URBAN DESIGN DETAIL, SHEET 94.

(8) PLANTER. SEE LANDSCAPE PLANS AND DETAILS, SHEETS 95–101.

(9) TRASH AND RECYCLE RECEPTACLE. SEE URBAN DESIGN DETAIL, SHEET 94.

(16) PERVIOUS CONC SIDEWALK. SEE ROADWAY PLAN, SHEETS 23–33.

(17) ACCENT BAND TREATMENT. SEE URBAN DESIGN DETAIL, SHEET 93.

(22) CRUSHED SURFACING TOP COURSE. SEE TYPICAL ROADWAY SECTIONS, SHEETS 5–7.

TRAIL MARKER SCHEDULE

STATION	OFFSET	SYMBOL #
40+74.75	19.00' RT	(15)
41+50.64	21.50' RT	(16)
43+87.63	21.50' RT	(17)

TRASH-RECYCLE SCHEDULE

STATION	OFFSET	SYMBOL #
43+75.47	13.75' RT	(9)
43+77.20	13.77' RT	(10)

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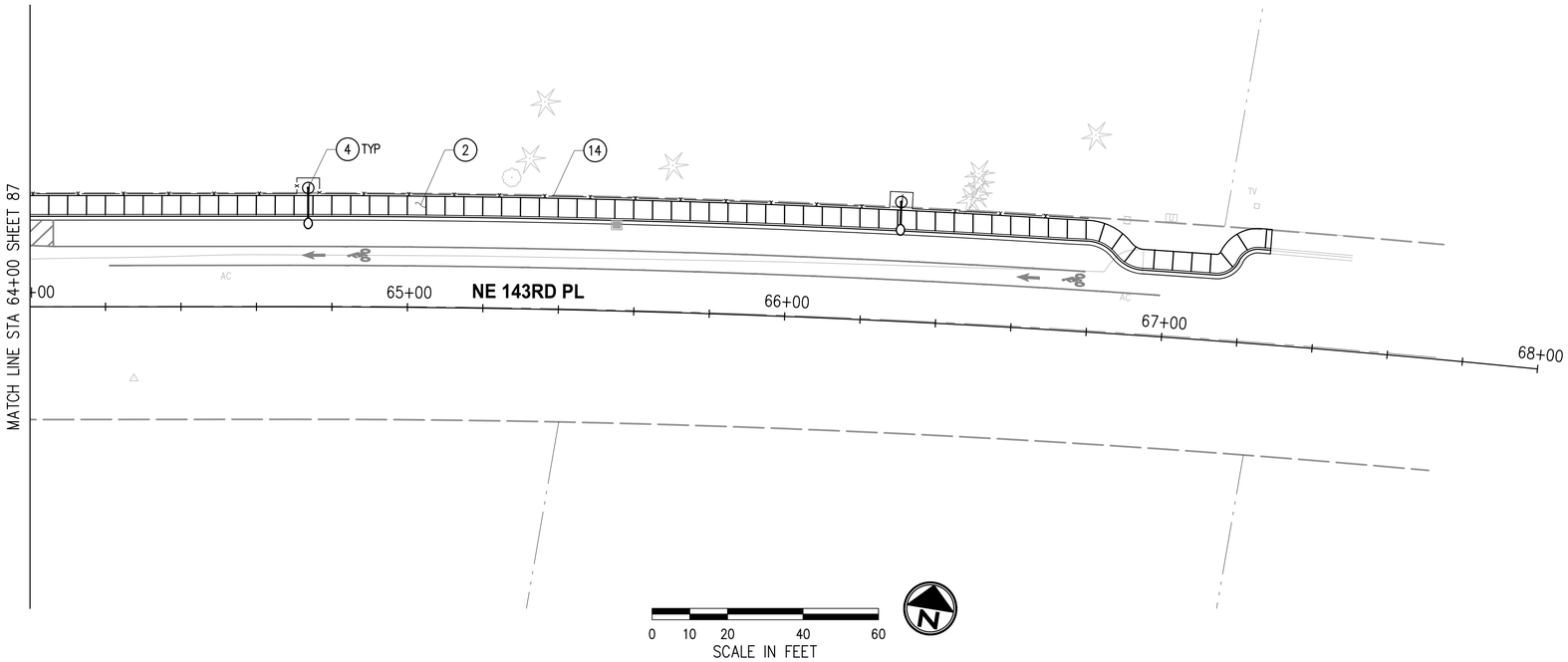
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

URBAN DESIGN PLAN
STA 39+50 TO STA 47+21

KPG PROJECT No. 21078

SHT 91 OF 119

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GENERAL NOTES

1. STATION/OFFSET SHALL BE TAKEN FROM CENTER OF FEATURE UNLESS OTHERWISE NOTED.
2. DECORATIVE ROADWAY AND PEDESTRIAN LUMINAIRE POLE LOCATION AND DETAILS SHALL BE PER ILLUMINATION PLANS & DETAILS, SHEETS 74–86.

CONSTRUCTION NOTES

(2) CEMENT CONC SIDEWALK PER COD STANDARDS.

(4) ROADWAY LUMINAIRE. SEE ILLUMINATION DETAILS, SHEETS 84–86.

(14) CHAIN LINK FENCE. SEE ROADWAY DETAIL, SHEET 10.

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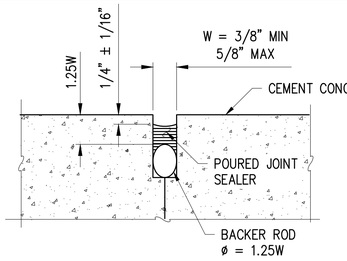
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

URBAN DESIGN PLAN
STA 64+00 TO STA 68+00

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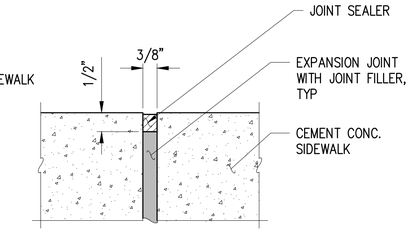
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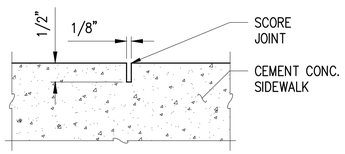
SECTION

CONSTRUCTION JOINT DETAIL
NTS



SECTION

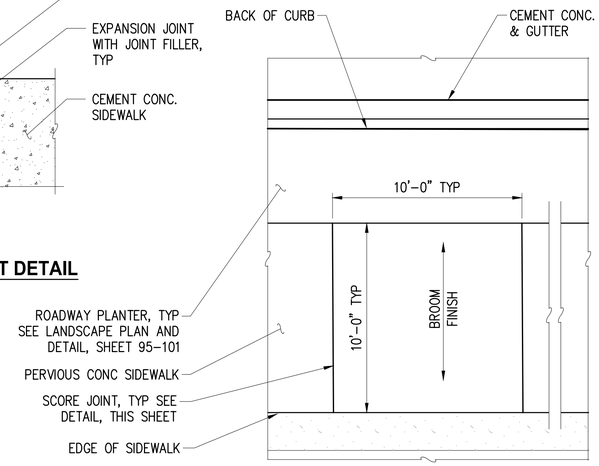
EXPANSION JOINT DETAIL
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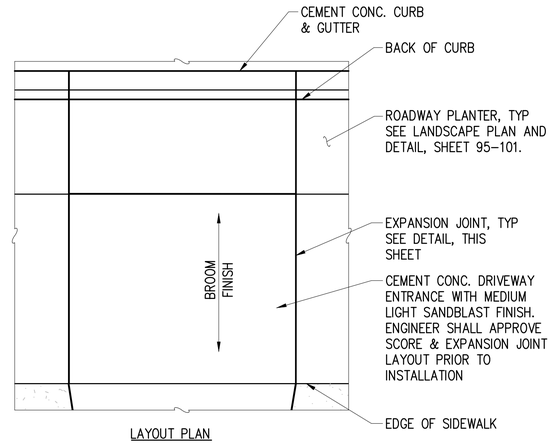
NOTE: CLEAN SCORE JOINT BY SAWCUT. NO RADIUS ON EDGE. NO SMOOTH FLANGE TOOLING ON EITHER SIDE OF JOINT.

SECTION

SCORE JOINT DETAIL
NTS

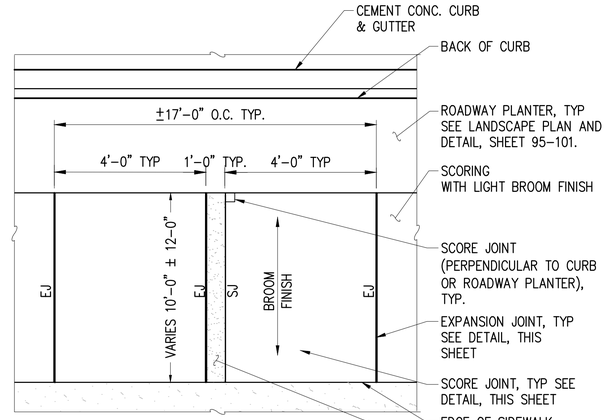


PERVIOUS CONC SIDEWALK LAYOUT
NTS



LAYOUT PLAN

CEMENT CONC. DRIVEWAY ENTRANCE LAYOUT
NTS



NOTE:
8' O.C. CONCRETE PANELS MAY BE WIDENED ALONG OUTSIDE OF RADIUS ALONG CURVE SECTIONS.

LAYOUT PLAN

CEMENT CONC. SIDEWALK DETAIL
NTS

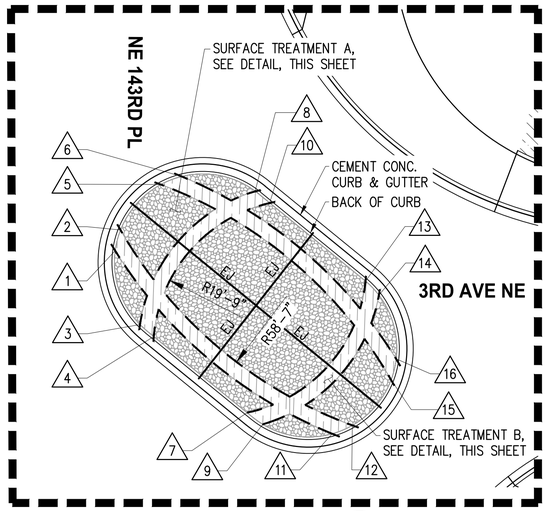


IMAGE EXAMPLE OF SURFACE TREATMENT A



IMAGE EXAMPLE OF SURFACE TREATMENT B

SURFACE TREATMENT - EXAMPLES
NTS



INTERSECTION TYPE A

LEGEND

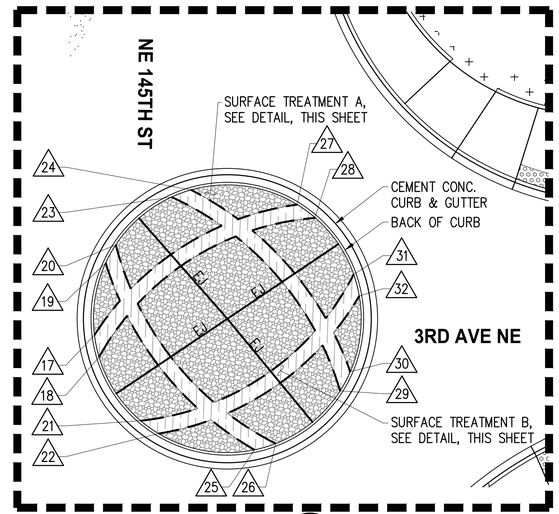
EJ EXPANSION JOINT

CONSTRUCTION JOINT

ROUNDABOUT SCHEDULE

STATION	OFFSET	SYMBOL #
9+84.48	6.97' LT	1
9+85.09	9.72' LT	2
9+88.07	2.67' RT	3
9+89.94	4.18' RT	4
9+90.22	15.90' LT	5
9+92.95	17.05' LT	6
10+02.58	13.81' RT	7
10+02.68	15.43' LT	8
10+04.66	13.94' LT	9
10+04.71	15.28' RT	10
10+13.91	16.22' RT	11
10+16.52	15.03' RT	12
10+17.61	4.07' LT	13
10+19.45	2.25' LT	14
10+21.44	8.86' RT	15
10+22.02	6.07' RT	16

SURFACE TREATMENT ENLARGEMENT LAYOUT PLAN
NTS



INTERSECTION TYPE B

ROUNDABOUT SCHEDULE

STATION	OFFSET	SYMBOL #
19+27.98	1.12' RT	17
19+28.68	4.00' RT	18
19+29.14	8.44' LT	19
19+30.39	10.87' LT	20
19+34.45	12.22' RT	21
19+36.63	13.85' RT	22
19+38.32	17.36' LT	23
19+40.90	18.28' LT	24
19+48.89	16.12' RT	25
19+51.69	15.33' RT	26
19+54.88	16.19' LT	27
19+57.25	14.41' LT	28
19+60.28	8.45' RT	29
19+61.65	5.94' RT	30
19+62.23	6.89' LT	31
19+62.94	4.05' LT	32

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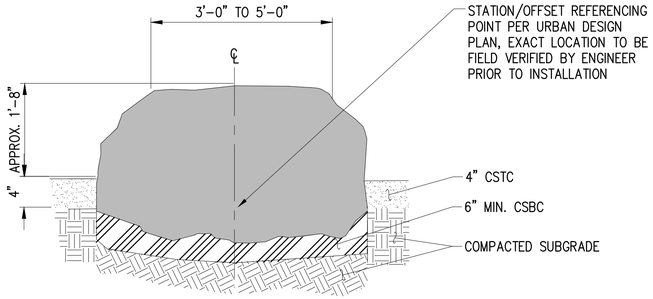
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URBAN DESIGN DETAILS

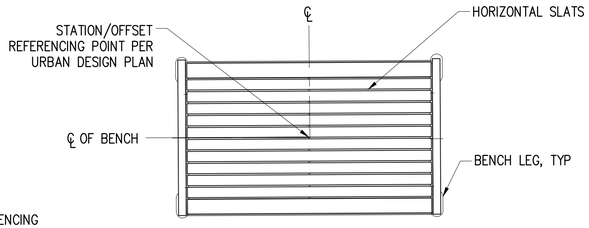
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SHT 93 OF 119

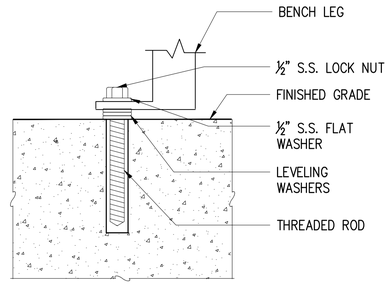
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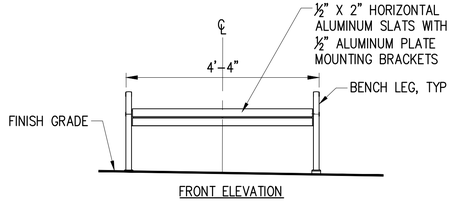
BOULDER BENCH DETAIL
NTS



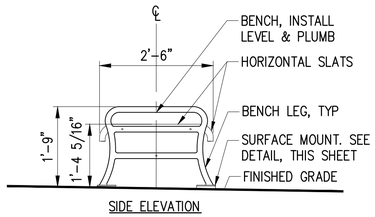
PLAN VIEW



SURFACE MOUNT DETAIL
NTS



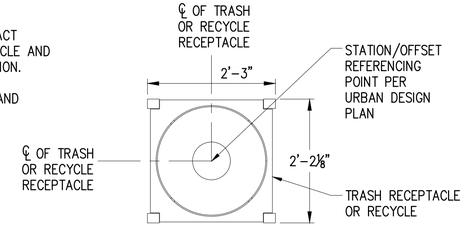
FRONT ELEVATION



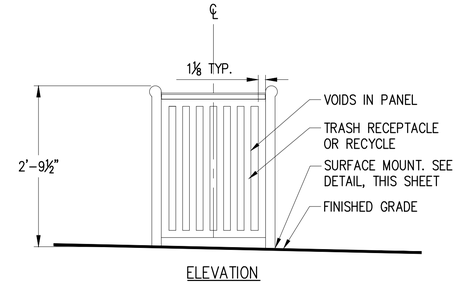
SIDE ELEVATION

METAL BENCH DETAIL
NTS

NOTES:
1. CITY ENGINEER TO VERIFY EXACT LOCATION OF TRASH RECEPTACLE AND RECYCLE PRIOR TO INSTALLATION.
2. INSTALL TRASH RECEPTACLE AND RECYCLE, LEVEL AND PLUMB.

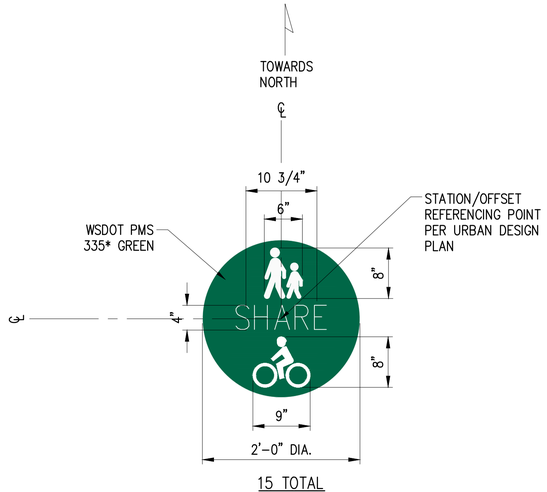


PLAN



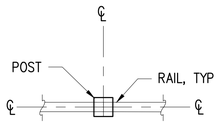
ELEVATION

TRASH AND RECYCLE RECEPTACLE DETAIL
NTS

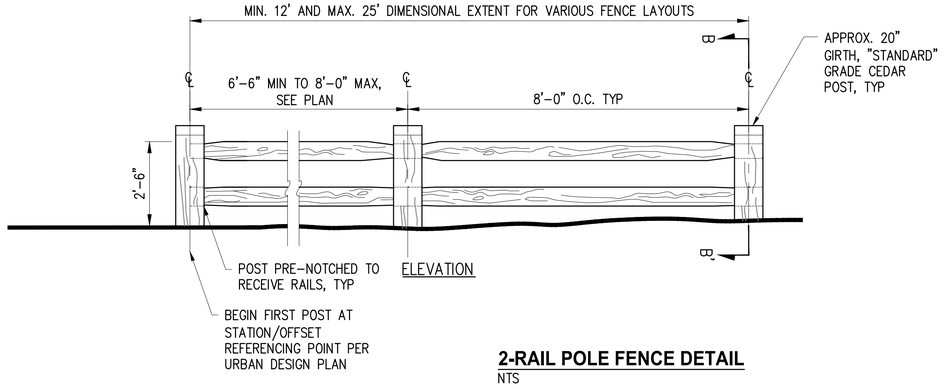


15 TOTAL

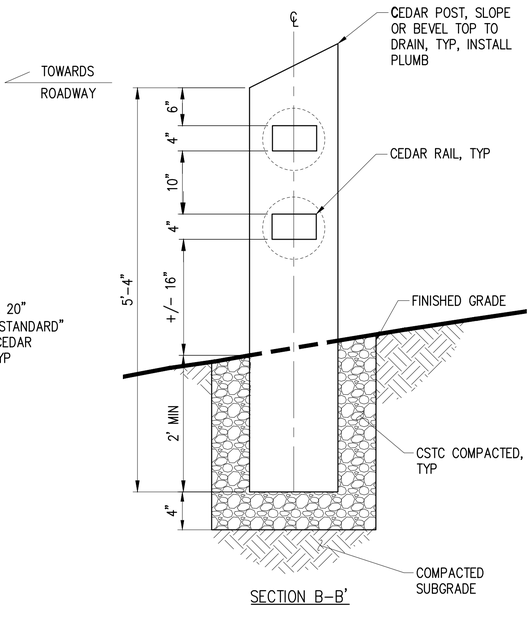
SHARED USE PATH MARKER LAYOUT DETAIL
NTS



TYPICAL STRAIGHT RAIL POST



2-RAIL POLE FENCE DETAIL
NTS



SECTION B–B'

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URBAN DESIGN DETAILS
URBAN DESIGN DETAILS

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CONSTRUCTION NOTES

3 SOD LAWN AREA; INSTALL 12" TOPSOIL TYPE A AS OUTLINED IN SPECIAL PROVISIONS.

4 EXISTING TREE TO REMAIN; SAVE AND PROTECT PER DETAIL, SHEET 22.

7 PLANTER RESTORATION AREA; INSTALL 6" TOPSOIL TYPE A AND TOPDRESS ENTIRE DISTURBED AREA WITH 3" BARK OR WOODCHIP MULCH, TYP

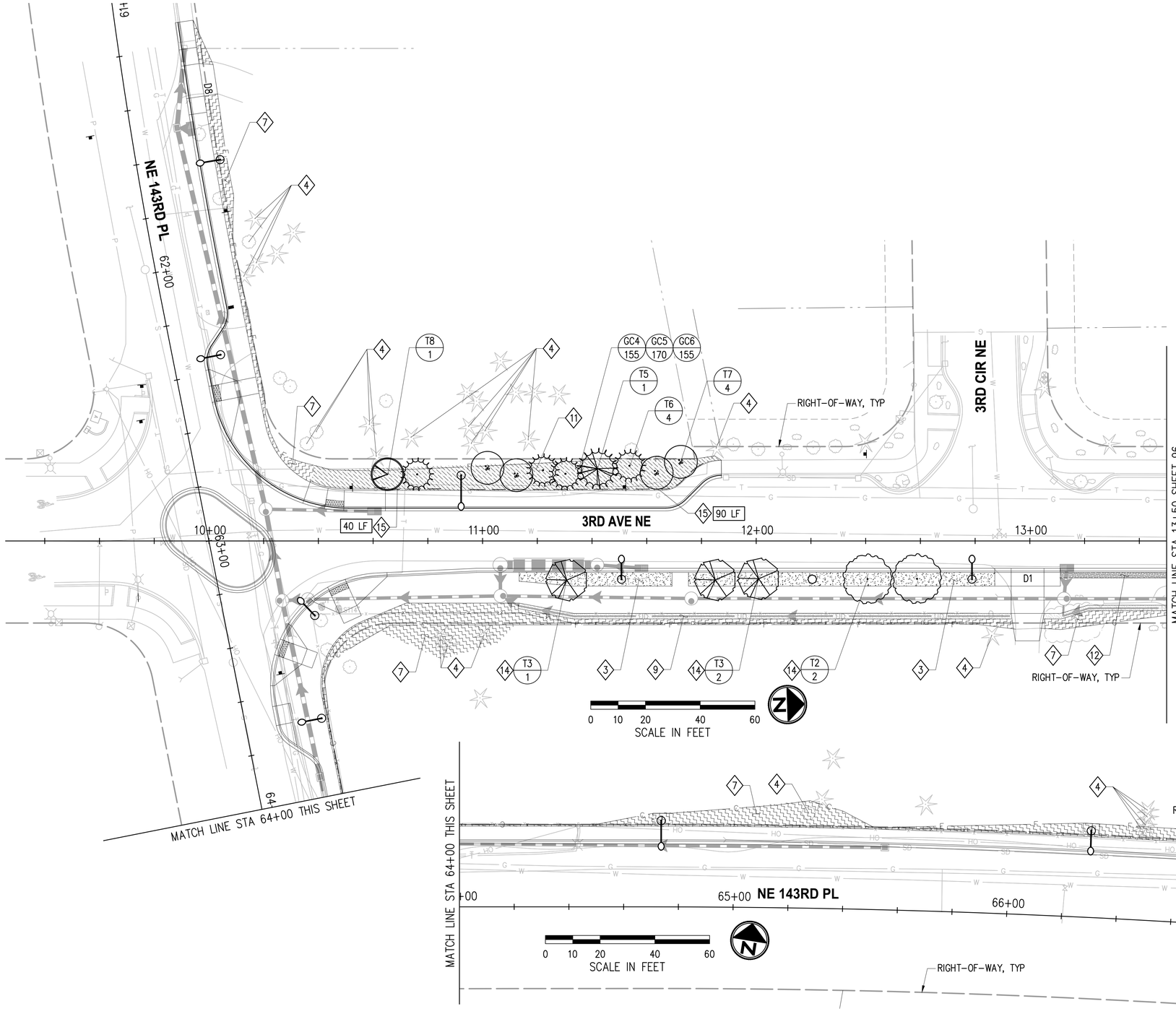
9 FRENCH DRAIN OR CSTC SHOULDER; SEE TYPICAL SECTIONS SHEET 5-7.

11 BACK-OF-WALK PLANTER; AMEND NATIVE SOIL WITH 3" FINE COMPOST AND INSTALL 3" ARBORIST WOOD CHIP MULCH OVER ENTIRE DISTURBED AREA, TYP. TREE AND PLANT LAYOUT TO BE ADJUSTED IN THE FIELD BASED ON LOCATION OF EXISTING ROOTS AND CANOPY. FINAL LAYOUT TO BE APPROVED BY ENGINEER.

12 DECORATIVE STAMPED CONCRETE; SEE URBAN DESIGN PLANS AND DETAILS, SHEET 87-94.

14 INSTALL MULCH RING PER DETAIL, SHEET 101.

15 INSTALL ROOT BARRIER ALONG BACK OF SIDEWALK, CSTC SHOULDER OR FRENCH DRAIN, CENTERED ON TREE GROUPING, TO EXTENTS SHOWN, PER DETAIL, SHEET 101.



A/1 PLANT SYMBOL / PLANT QUANTITY

SEE SHEET 100-101 FOR PLANTING SCHEDULE, DETAILS, AND GENERAL NOTES.

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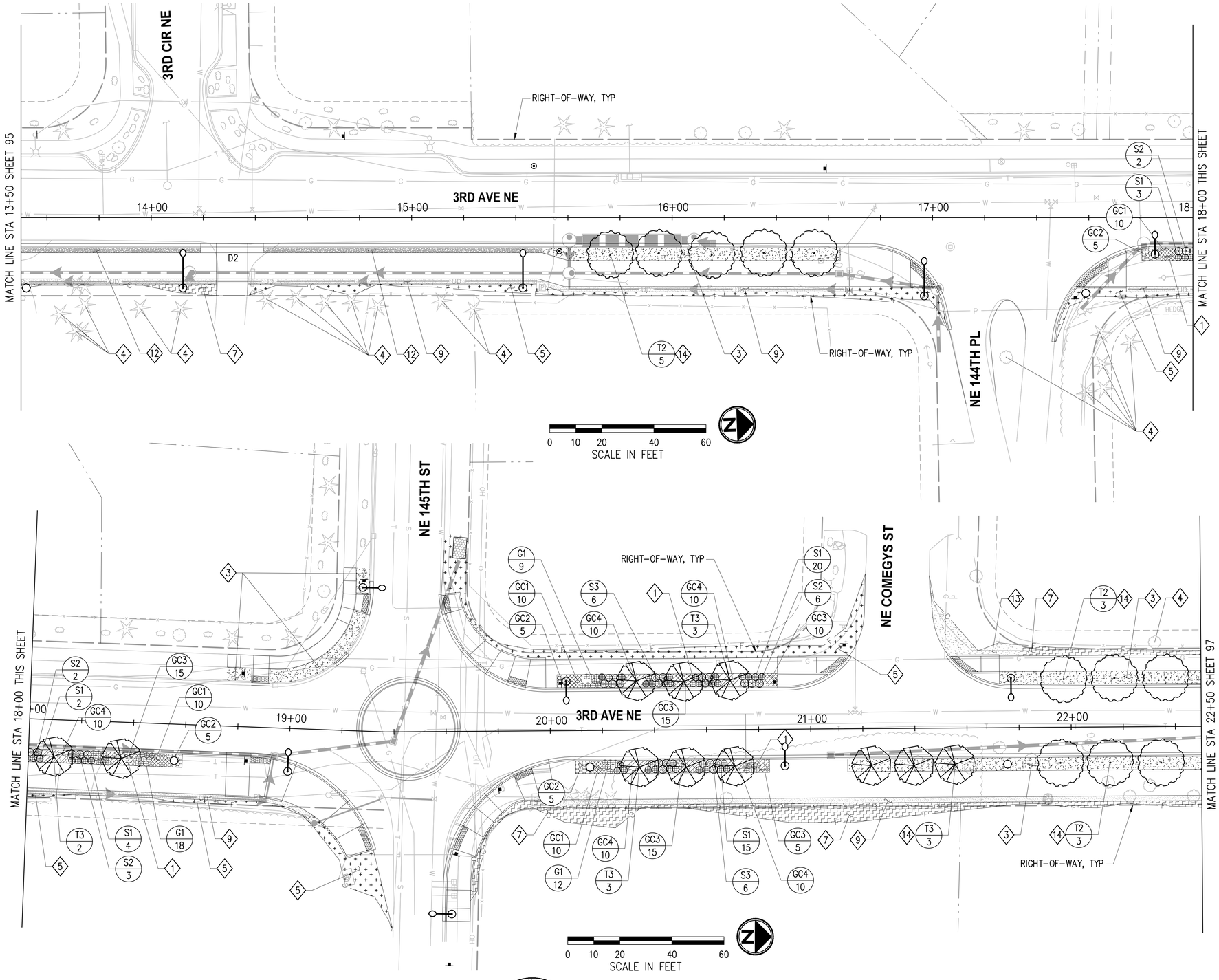
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

LANDSCAPE PLAN
STA 9+25 TO STA 13+50 AND
STA 61+00 TO STA 68+00

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CONSTRUCTION NOTES

1. ROADWAY PLANTER; INSTALL 12" TOPSOIL TYPE A AS OUTLINED IN THE SPECIAL PROVISIONS, AND TOPDRESS WITH 3" BARK OR WOOD CHIP MULCH, TYP.
3. SOD LAWN AREA; INSTALL 12" TOPSOIL TYPE A AS OUTLINED IN SPECIAL PROVISIONS.
4. EXISTING TREE TO REMAIN; SAVE AND PROTECT PER DETAIL, SHEET 22.
5. SEEDED LAWN RESTORATION AREA; INSTALL 4" TOPSOIL TYPE A AND HYDROSEED ENTIRE DISTURBED AREA WITH RESTORATION SEED MIX, TYP.
7. PLANTER RESTORATION AREA; INSTALL 6" TOPSOIL TYPE A AND TOPDRESS ENTIRE DISTURBED AREA WITH 3" BARK OR WOODCHIP MULCH, TYP
9. FRENCH DRAIN OR CSTC SHOULDER; SEE TYPICAL SECTIONS SHEET 5-7.
12. DECORATIVE STAMPED CONCRETE; SEE URBAN DESIGN PLANS AND DETAILS, SHEET 87-94.
13. CSTC RESTORATION AREA; INSTALL 4" CSTC, TYP.
14. INSTALL MULCH RING PER DETAIL, SHEET 101.

PLANT SYMBOL
A
1
PLANT QUANTITY

SEE SHEET 100-101 FOR PLANTING SCHEDULE, DETAILS, AND GENERAL NOTES.

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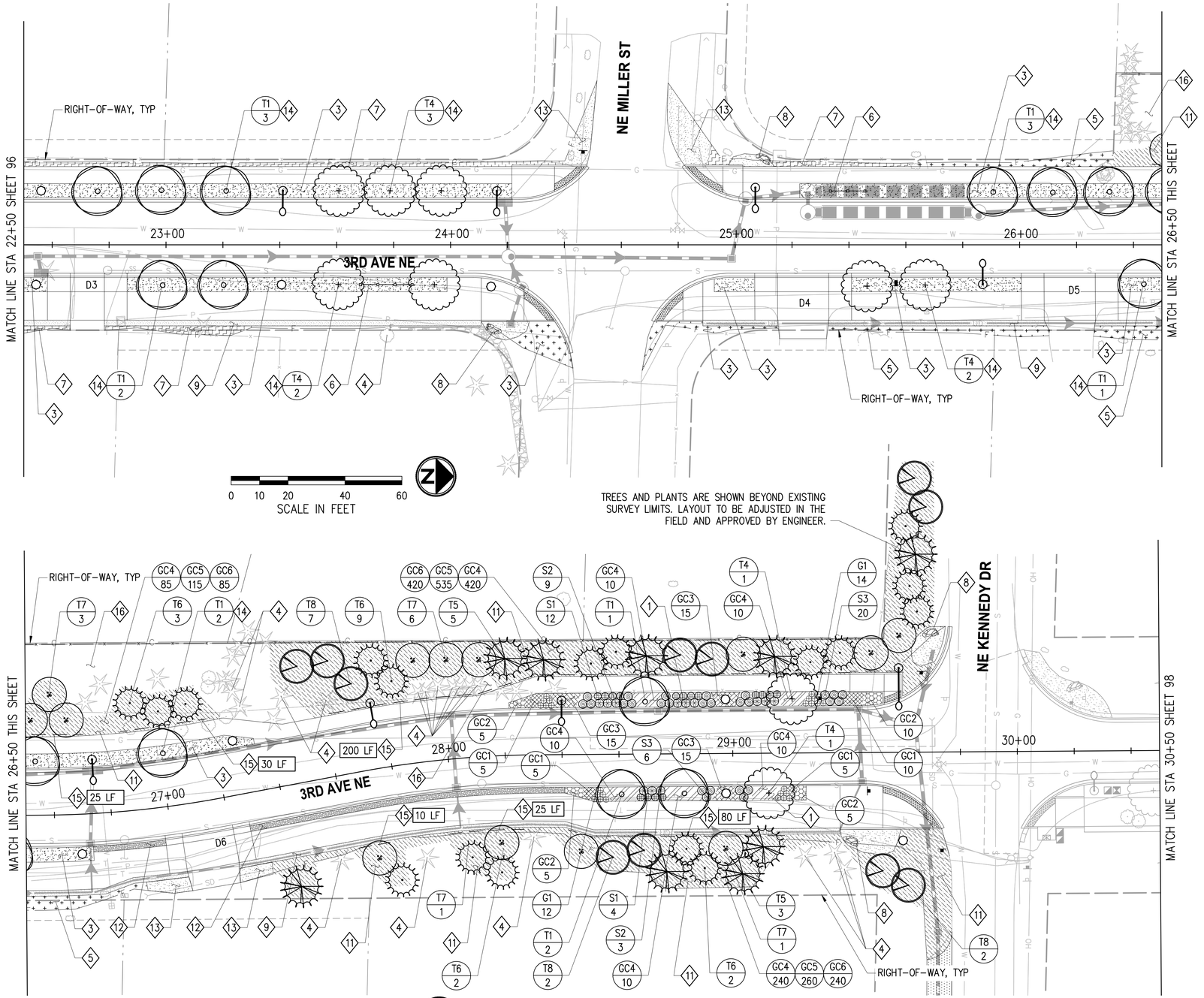
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LANDSCAPE PLAN
STA 13+50 TO STA 22+50

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CONSTRUCTION NOTES

1. ROADWAY PLANTER; INSTALL 12" TOPSOIL TYPE A AS OUTLINED IN THE SPECIAL PROVISIONS, AND TOPDRESS WITH 3" BARK OR WOOD CHIP MULCH, TYP.
3. SOD LAWN AREA; INSTALL 12" TOPSOIL TYPE A AS OUTLINED IN SPECIAL PROVISIONS.
4. EXISTING TREE TO REMAIN; SAVE AND PROTECT PER DETAIL, SHEET 22.
5. SEEDED LAWN RESTORATION AREA; INSTALL 4" TOPSOIL TYPE A AND HYDROSEED ENTIRE DISTURBED AREA WITH RESTORATION SEED MIX, TYP.
6. 2-RAIL POLE FENCE; SEE URBAN DESIGN PLANS AND DETAILS, SHEET 87-94.
7. PLANTER RESTORATION AREA; INSTALL 6" TOPSOIL TYPE A AND TOPDRESS ENTIRE DISTURBED AREA WITH 3" BARK OR WOODCHIP MULCH, TYP
8. BOULDER BENCH; SEE URBAN DESIGN PLANS AND DETAILS, SHEET 87-94.
9. FRENCH DRAIN OR CSTC SHOULDER; SEE TYPICAL SECTIONS SHEET 5-7.
11. BACK-OF-WALK PLANTER; AMEND NATIVE SOIL WITH 3" FINE COMPOST AND INSTALL 3" ARBORIST WOOD CHIP MULCH OVER ENTIRE DISTURBED AREA, TYP. TREE AND PLANT LAYOUT TO BE ADJUSTED IN THE FIELD BASED ON LOCATION OF EXISTING ROOTS AND CANOPY. FINAL LAYOUT TO BE APPROVED BY ENGINEER.
12. DECORATIVE STAMPED CONCRETE; SEE URBAN DESIGN PLANS AND DETAILS, SHEET 87-94.
13. CSTC RESTORATION AREA; INSTALL 4" CSTC, TYP.
14. INSTALL MULCH RING PER DETAIL, SHEET 101.
15. INSTALL ROOT BARRIER ALONG BACK OF SIDEWALK, CSTC SHOULDER OR FRENCH DRAIN, CENTERED ON TREE GROUPING, TO EXTENTS SHOWN, PER DETAIL, SHEET 101.
16. INSTALL 3" ARBORIST WOODCHIP MULCH.

PLANT SYMBOL
PP
60
PLANT QUANTITY

SEE SHEET 100-101 FOR PLANTING SCHEDULE, DETAILS, AND GENERAL NOTES.

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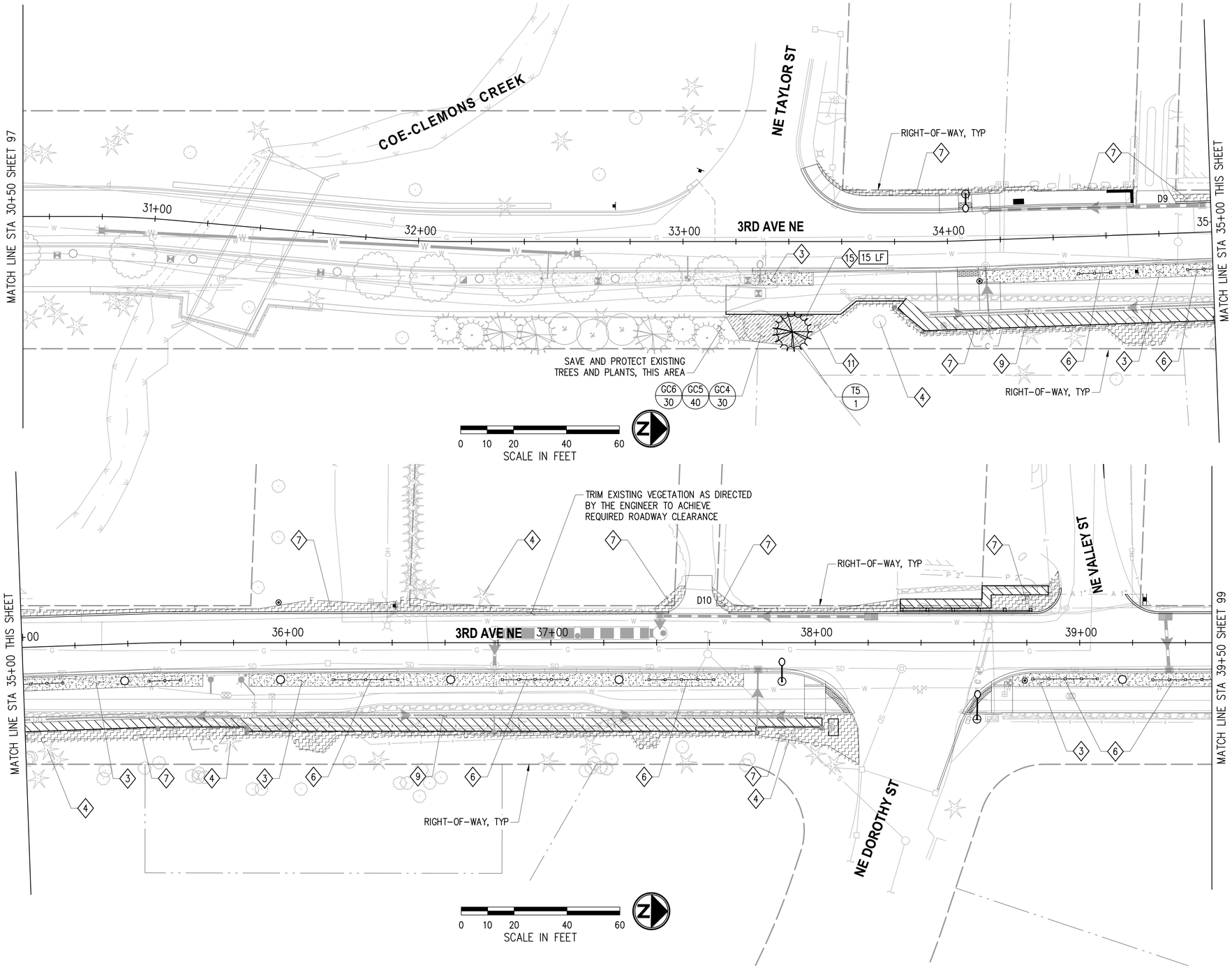
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CITY OF DUVALL
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LANDSCAPE PLAN
STA 22+50 TO STA 30+50

KPG PROJECT No. 21078 | SHT 97 OF 119

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CONSTRUCTION NOTES

3. SOD LAWN AREA; INSTALL 12" TOPSOIL TYPE A AS OUTLINED IN SPECIAL PROVISIONS.
4. EXISTING TREE TO REMAIN; SAVE AND PROTECT PER DETAIL, SHEET 22.
6. 2-RAIL POLE FENCE; SEE URBAN DESIGN PLANS AND DETAILS, SHEET 87-94.
7. PLANTER RESTORATION AREA; INSTALL 6" TOPSOIL TYPE A AND TOPDRESS ENTIRE DISTURBED AREA WITH 3" BARK OR WOODCHIP MULCH, TYP
9. FRENCH DRAIN OR CSTC SHOULDER; SEE TYPICAL SECTIONS SHEET 5-7.
11. BACK-OF-WALK PLANTER; AMEND NATIVE SOIL WITH 3" FINE COMPOST AND INSTALL 3" ARBORIST WOOD CHIP MULCH OVER ENTIRE DISTURBED AREA, TYP. TREE AND PLANT LAYOUT TO BE ADJUSTED IN THE FIELD BASED ON LOCATION OF EXISTING ROOTS AND CANOPY. FINAL LAYOUT TO BE APPROVED BY ENGINEER.
14. INSTALL MULCH RING PER DETAIL, SHEET 101.
15. INSTALL ROOT BARRIER ALONG BACK OF SIDEWALK, CSTC SHOULDER OR FRENCH DRAIN, CENTERED ON TREE GROUPING, TO EXTENTS SHOWN, PER DETAIL, SHEET 101.

PLANT SYMBOL
PP 60
PLANT QUANTITY

SEE SHEET 100-101 FOR PLANTING SCHEDULE, DETAILS, AND GENERAL NOTES.

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ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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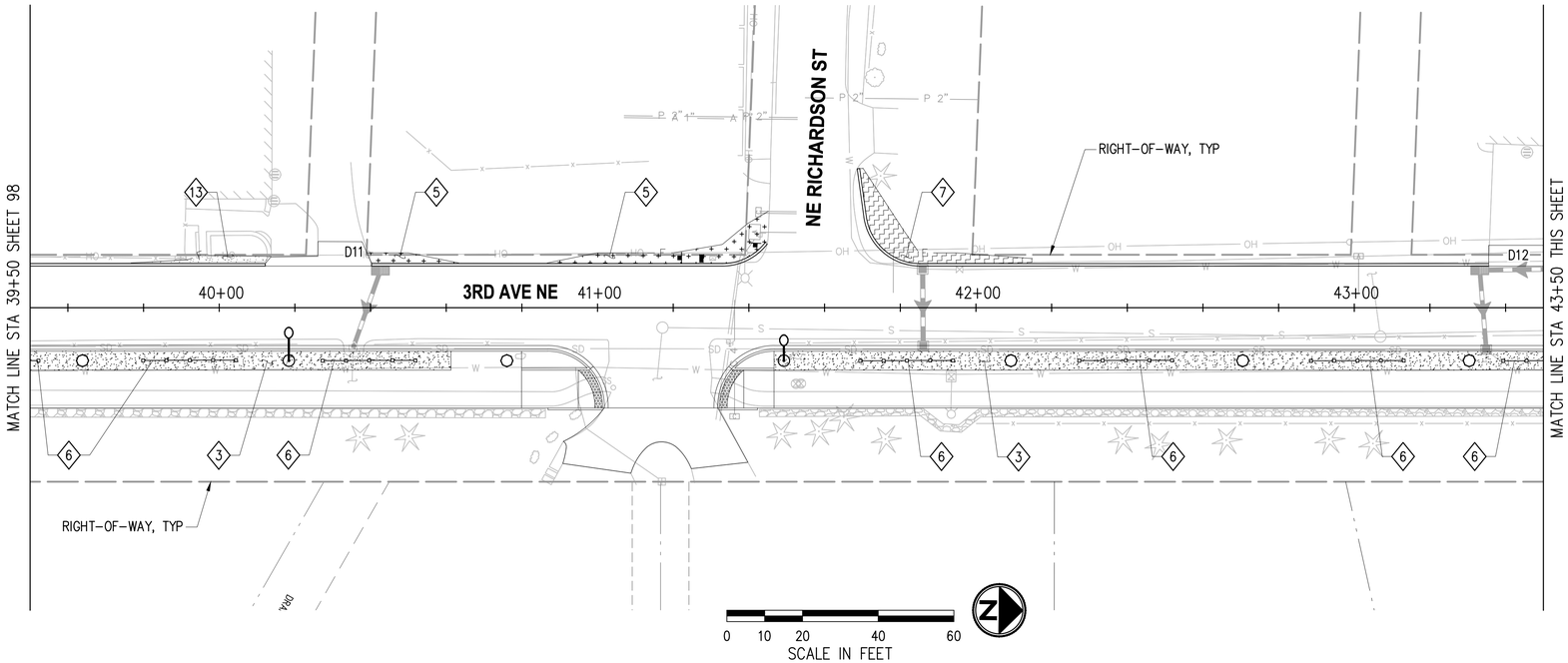
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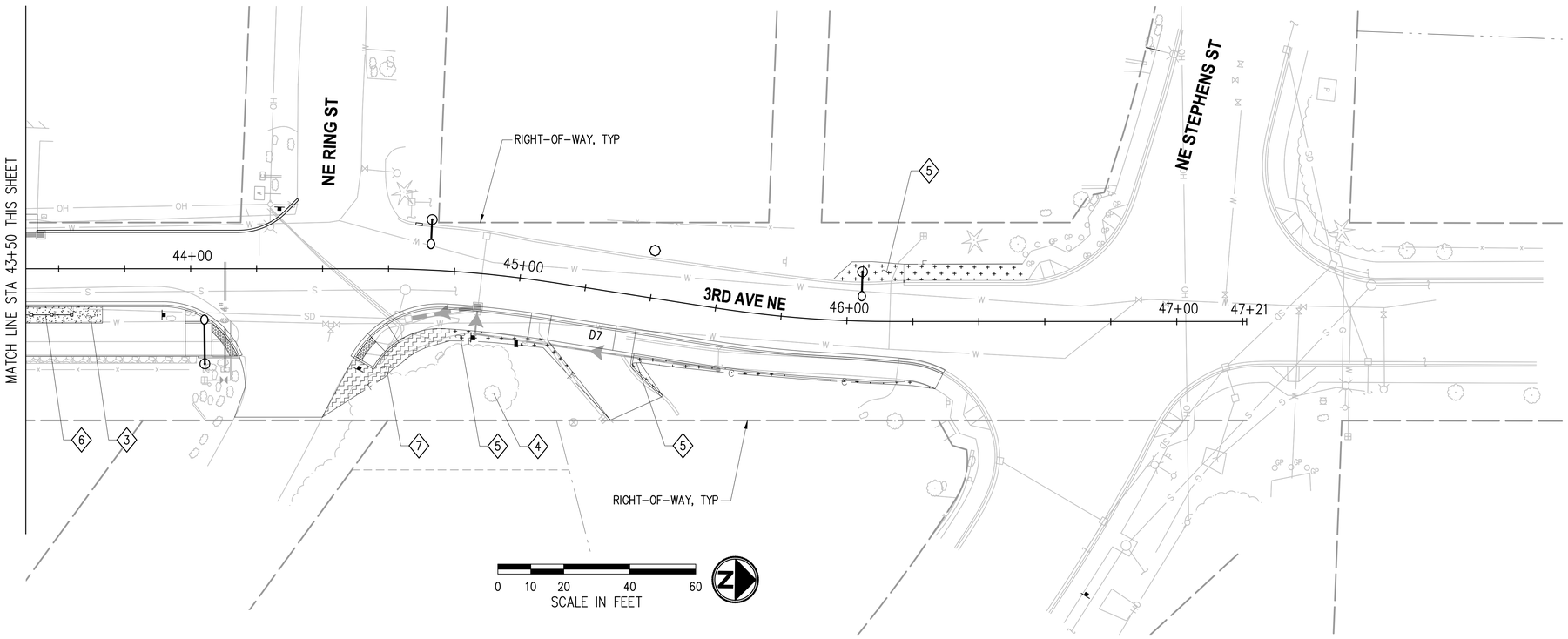
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CONSTRUCTION NOTES

3. SOD LAWN AREA; INSTALL 12" TOPSOIL TYPE A AS OUTLINED IN SPECIAL PROVISIONS.
4. EXISTING TREE TO REMAIN; SAVE AND PROTECT PER DETAIL, SHEET 22.
5. SEEDED LAWN RESTORATION AREA; INSTALL 4" TOPSOIL TYPE A AND HYDROSEED ENTIRE DISTURBED AREA WITH RESTORATION SEED MIX, TYP.
6. 2-RAIL POLE FENCE; SEE URBAN DESIGN PLANS AND DETAILS, SHEET 87-94.
7. PLANTER RESTORATION AREA; INSTALL 6" TOPSOIL TYPE A AND TOPDRESS ENTIRE DISTURBED AREA WITH 3" BARK OR WOODCHIP MULCH, TYP
13. CSTC RESTORATION AREA; INSTALL 4" CSTC, TYP.





PLANT SYMBOL
PP
60
PLANT QUANTITY

SEE SHEET 100-101 FOR PLANTING SCHEDULE, DETAILS, AND GENERAL NOTES.

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PROJECT ENGINEER	DATE

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PRELIMINARY TREE SCHEDULE

SYMBOL		BOTANICAL NAME/ COMMON NAME	QTY	SIZE	REMARKS
	STREET TREES				
	T1	CARPINUS CAROLINIANA 'CCSQU' / PALISADE AMERICAN HORNBEAM	14	2.75" CAL. 12'–14' HT.	B&B, WELL BRANCHED
	T2	QUERCUS BICOLOR 'BONNIE AND MIKE' / BEACON OAK	13	2.75" CAL. 12'–14' HT.	B&B, WELL BRANCHED
	ACCENT TREES				
	T3	CERCIDIPHYLLUM JAPONICUM 'HANNA'S HEART' / HANNA'S HEART KATSURA	14	2.75" CAL. 12'–14' HT.	B&B, WELL BRANCHED
	T4	CORNUS KOUSA X NUTTALLII 'KN4–43' / STARLIGHT DOGWOOD	9	2.75" CAL. 12'–14' HT.	B&B, WELL BRANCHED
	BACK–OF–WALK RESTORATION TREES				
	T5	PSEUDOTSUGA MENZIESII / DOUGLAS FIR	11	8'–10' HT.	B&B, WELL BRANCHED
	T6	THUJA PLICATA 'EXCELSA' / EXCELSA WESTERN RED CEDAR	21	8'–10' HT.	B&B, WELL BRANCHED
	T7	ACER CIRCINATUM / VINE MAPLE	17	6'–8' HT.	3–5 CANES MIN. 1" MIN. CAL. PER CANE
	T8	RHAMNUS PURSHIANA / CASCARA	12	2" CAL. 10'–12' HT.	B&B, WELL BRANCHED

PRELIMINARY ROADWAY PLANT SCHEDULE

SYMBOL		BOTANICAL NAME/ COMMON NAME	QTY	SIZE	REMARKS
	SHRUBS				
	S1	CORNUS SERICEA 'KELSEYI' / KELSEY'S DWARF RED TWIG DOGWOOD	60	2 GAL CONT.	30" O.C. TRI. SP. TYP.
	S2	VACCINIUM OVATUM 'VACSID 1'/ SCARLET OVATION EVERGREEN HUCKLEBERRY	25	2 GAL CONT.	36" O.C. TRI. SP. TYP.
	S3	SPIRAEA BETULIFOLIA VAR. LUCIDA/ BIRCHLEAF SPIREA	38	2 GAL CONT.	36" O.C. TRI. SP. TYP.
	GRASSES, PERENNIALS & GROUNDCOVERS				
	G1	DESCHAMPSIA CESPITOSA/ TUFTED HARIGREASS	65	1 GAL CONT.	24" O.C. TRI. SP. TYP.
	GC1	ACHILLEA MILLEFOLIUM/ COMMON YARROW	65	1 GAL CONT.	18" O.C. TRI. SP. TYP.
	GC2	ARMERIA MARITIMA/ SEA THRIFT	45	1 GAL CONT.	18" O.C. TRI. SP. TYP.
	GC3	ARCTOSTAPHYLOS UVA–URSI/ KINNIKINNICK	105	1 GAL CONT.	18" O.C. TRI. SP. TYP.
	GC4	POLYSTICHUM MUNITUM/ WESTERN SWORD FERN	100	1 GAL CONT.	24" O.C. TRI. SP. TYP.
	BACK–OF–WALK PLANTS				
	GC5	FRAGARIA VESCA/ WOODLAND STRAWBERRY	1,170	4" POT	15" O.C. TRI. SP. TYP.
	GC6	MAHONIA NERVOSA / LOW OREGON GRAPE	930	1 GAL CONT.	24" O.C. TRI. SP. TYP.
	GC4	POLYSTICHUM MUNITUM/ WESTERN SWORD FERN	930	1 GAL CONT.	24" O.C. TRI. SP. TYP.
	SOD INSTALLATION		1,045 SY		
	SEEDED LAWN RESTORATION		420 SY		

GENERAL NOTES

1. ALL PLANT MATERIALS SHALL MEET THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 MOST CURRENT VERSION.
2. PLAN, MAINTAIN AND WARRANTY PER SECTION 8–02 OF THE SPECIAL PROVISIONS.
3. DO NOT SUBSTITUTE SPECIES WITHOUT THE APPROVAL OF ENGINEER.
4. INSTALL 2" BARK OR WOOD CHIP MULCH OVER ALL DISTURBED AREAS NOT BEING PLANTED OR SEEDED, UNLESS OTHERWISE NOTED.
5. PROPERTY RESTORATION TO BE DONE AS DIRECTED BY THE ENGINEER.
6. ALL STREET TREES AND ACCENT TREES SHALL MEET WSDOT "STREET TREE GRADE" STANDARD AND SHALL BRANCH AT MIN 6' HT. ABOVE FINISH GRADE.

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PROJECT ENGINEER DATE

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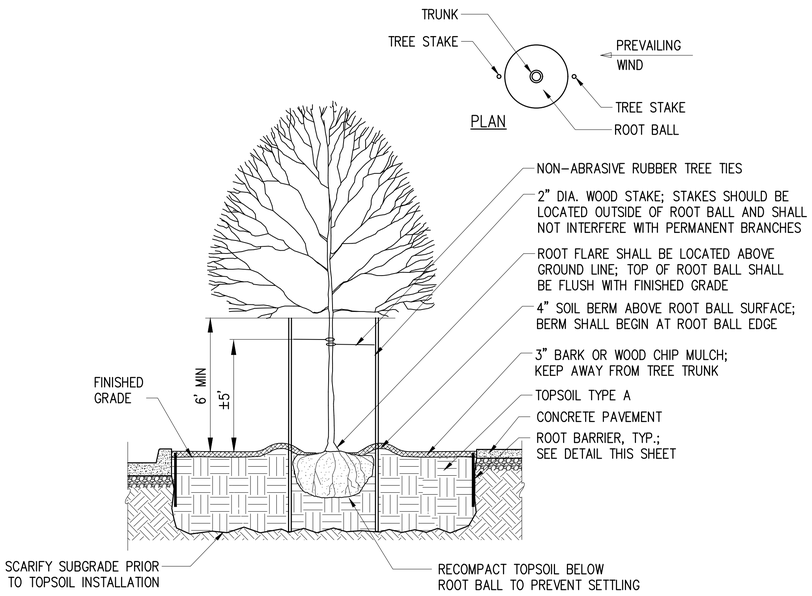
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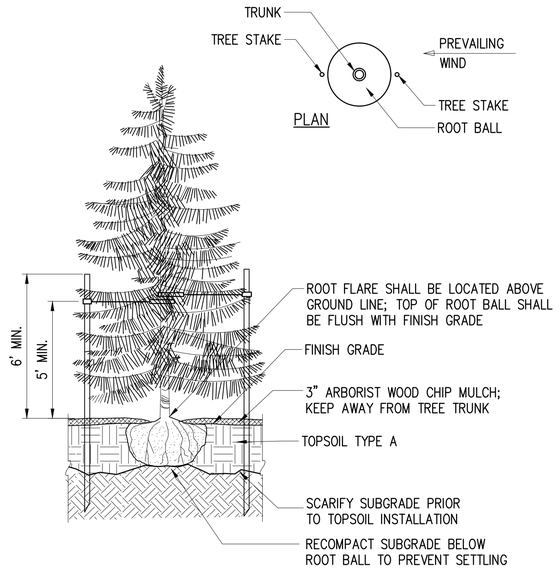
LANDSCAPE DETAILS

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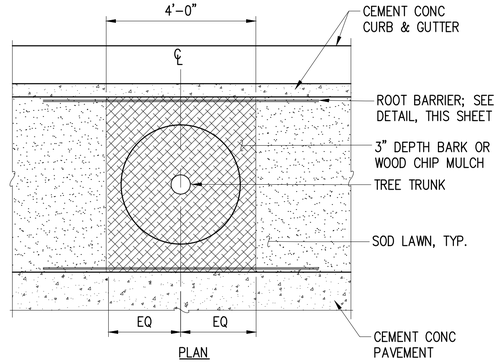
SHT 100 OF 119



TYPICAL STREET TREE PLANTING DETAIL
NTS



TYPICAL EVERGREEN TREE PLANTING DETAIL
NTS

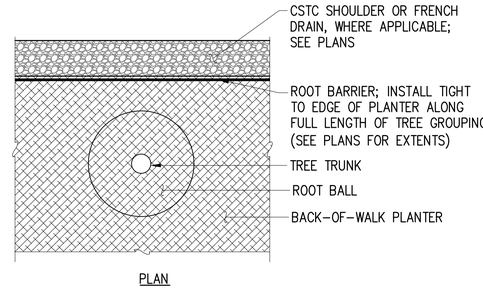


TYPICAL MULCH RING DETAIL
NTS

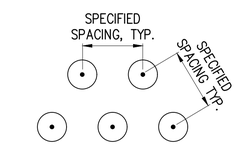
NOTE: DETAIL APPLIES ONLY TO NEW TREE PLANTINGS IN LAWN AREAS.

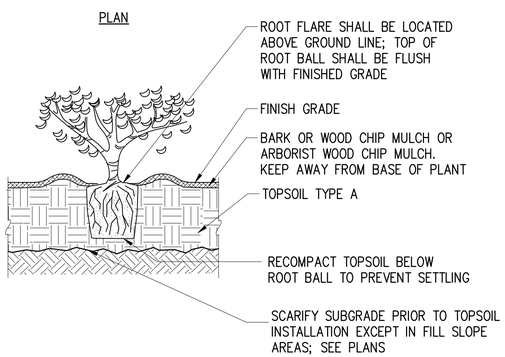
TREE PLANTING NOTES

1. TREE PIT SHALL NOT BE LESS THAN (3) TIMES ROOTBALL DIAMETER.
2. CUT ALL TIES AND REMOVE BURLAP ROOTBALL.
3. REMOVE ALL PLASTIC AND TWINE.
4. BACKFILL TOPSOIL TYPE A AROUND ROOT BALL IN 6" LIFTS AND LIGHTLY RECOMPACT EACH LIFT; AFTER BACKFILLING, WATER IN ROOT BALL TO SETTLE THE SOIL.
5. PLANT TREES WITH ROOT FLARE ABOVE FINISHED GRADE; DO NOT COVER TOP OF ROOTBALL WITH SOIL.

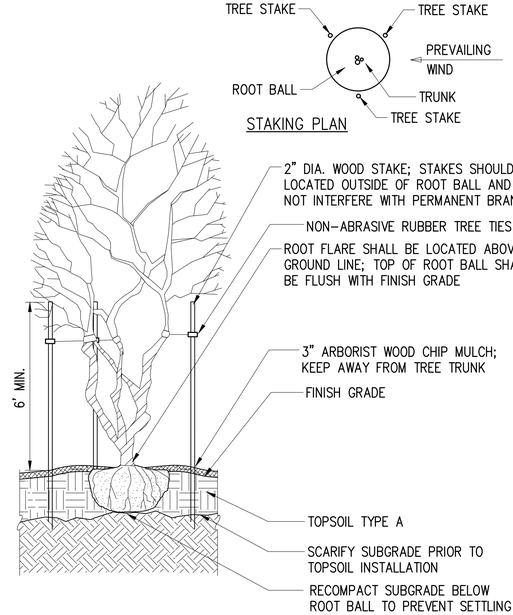


TYPICAL ROOT BARRIER DETAIL AT BACK-OF-WALK LOCATIONS
NTS

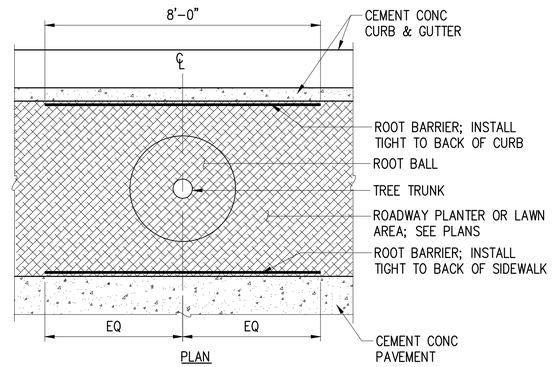




TYPICAL SHRUB/GROUNDCOVER PLANTING DETAIL
NTS



TYPICAL MULTI-STEM TREE PLANTING DETAIL
NTS



TYPICAL ROOT BARRIER DETAIL AT STREET TREE LOCATIONS
NTS

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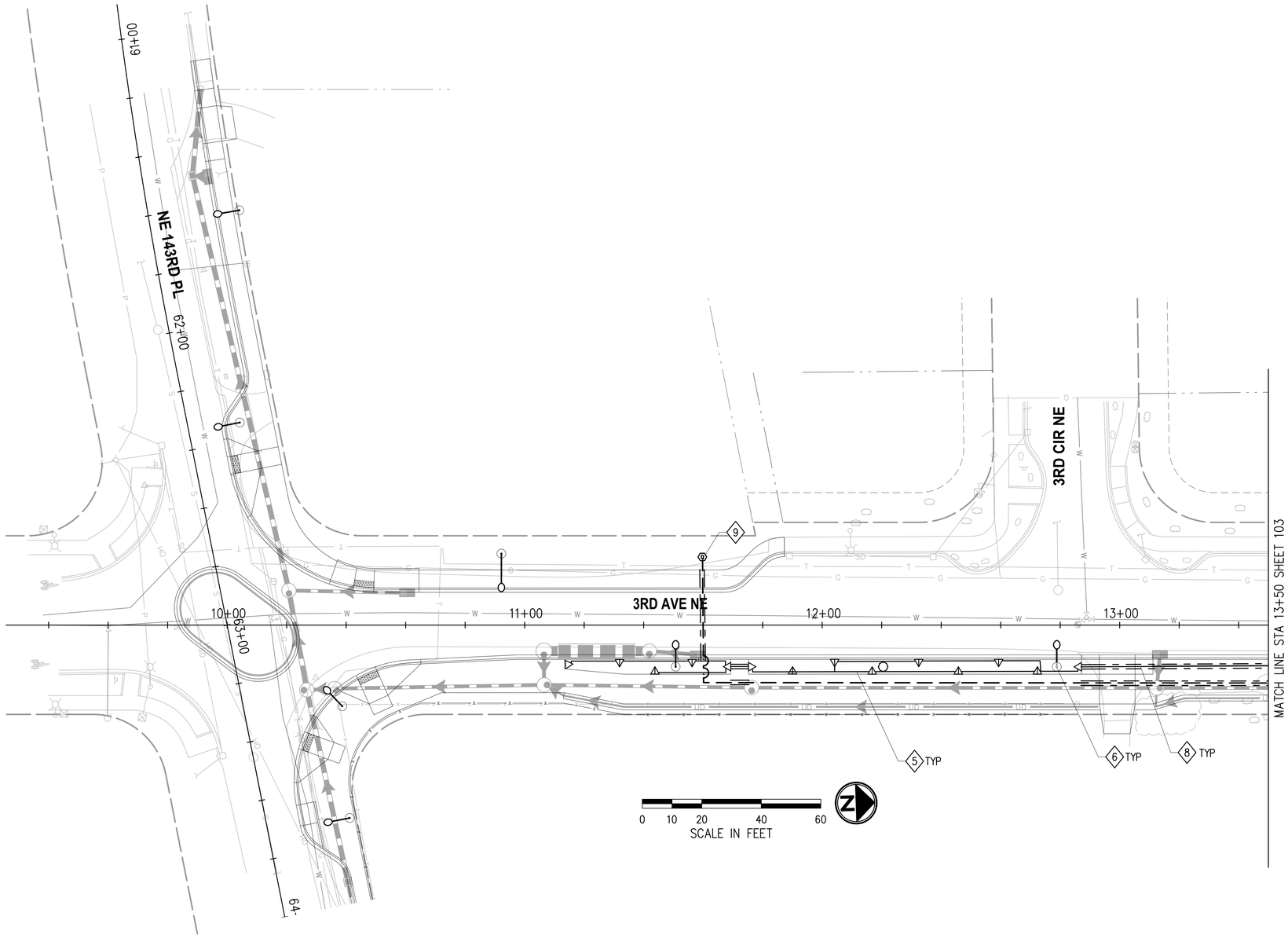
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LANDSCAPE DETAILS

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CONSTRUCTION NOTES

5. MAINLINE AND LATERAL LINES TO BE LOCATED IN PLANTERE WHERE POSSIBLE; LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC.
6. COORDINATE SLEEVING, MAIN LINE AND LATERAL LINE INSTALLATION WITH ILLUMINATION CONDUIT AND FOOTING LOCATIONS.
8. ALL IRRIGATION LINES LOCATED UNDER PAVEMENT SHALL BE SLEEVED PER GENERAL NOTES SHEET 107 AND PER SPECIAL PROVISIONS. THE CONTRACTOR SHALL COORDINATE ALL SLEEVING LOCATIONS WITH OTHER UTILITIES AND INSTALL PRIOR TO ALL ROADWAY AND SIDEWALK PAVEMENT.
9. INSTALL QUICK COUPLER IN VALVE BOX, TIGHT TO BACK OF TRAIL SHOULDER OR BACK OF CURB, SEE DETAIL SHEET 107.

SPRAY IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL NO
◭ ▶	HUNTER — SHRUB CORNER AND SIDE STRIP SERIES MP-LCS/RCS-515, SS-530
△ ▷	HUNTER — LAWN CORNER AND SIDE STRIP SERIES MP-LCS/RCS-515, SS-530
◕	AUTOMATIC CONTROL VALVE
— —	SCH 40 PVC MAINLINE
———	SCH 40 LATERAL LINE
– – –	SCH 40 SLEEVE

PIPE SIZE CHART

GPM	SIZE
0 – 8	0"
8 – 13	1"
13 – 22	11"
22 – 30	1Ð"
30 – 50	2"

NOTE: ALL IRRIGATION MAINLINE SHALL BE 2" PVC SCH 40, UNLESS OTHERWISE NOTED ON PLANS.

IRRIGATION PIPING WILL BE SIZED IN NEXT SUBMITTAL (100%).

SEE SHEET 107 -108 FOR IRRIGATION SCHEDULE, DETAILS AND GENERAL NOTES.

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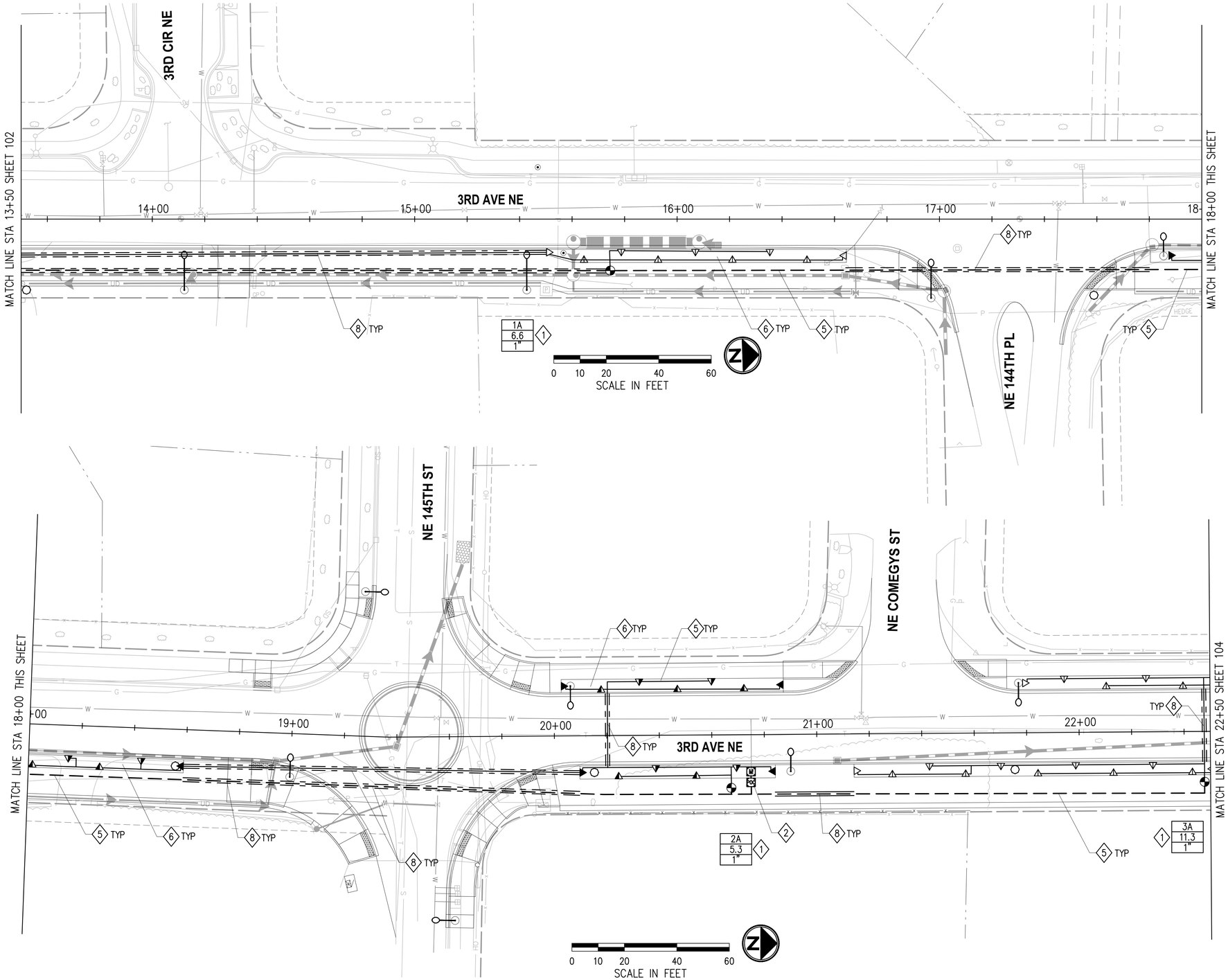
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IRRIGATION PLAN
STA 9+25 TO STA 13+50 AND
STA 61+00 TO STA 64+00

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CONSTRUCTION NOTES

1. INSTALL CONTROL VALVE BOX IN PLANTER AREA, TIGHT TO EDGE OF PLANTER OR BACK OF SIDEWALK TO MAXIMIZE PLANTING AREA; LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC.
2. INSTALL IRRIGATION METER AND POINT-OF-CONNECTION EQUIPMENT (POC); SEE DETAILS SHEET 107-108. PROVIDE 2-WIRE CONTROL WIRE TO FLOW SENSOR AND MASTER VALVE.
5. MAINLINE AND LATERAL LINES TO BE LOCATED IN PLANTERE WHERE POSSIBLE; LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC.
6. COORDINATE SLEEVING, MAIN LINE AND LATERAL LINE INSTALLATION WITH ILLUMINATION CONDUIT AND FOOTING LOCATIONS.
8. ALL IRRIGATION LINES LOCATED UNDER PAVEMENT SHALL BE SLEEVED PER GENERAL NOTES SHEET 107 AND PER SPECIAL PROVISIONS. THE CONTRACTOR SHALL COORDINATE ALL SLEEVING LOCATIONS WITH OTHER UTILITIES AND INSTALL PRIOR TO ALL ROADWAY AND SIDEWALK PAVEMENT.

SPRAY IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL NO	
◭ ▶	HUNTER	SHRUB CORNER AND SIDE STRIP SERIES MP-LCS/RCS-515, SS-530
△ ▷	HUNTER	LAWN CORNER AND SIDE STRIP SERIES MP-LCS/RCS-515, SS-530
◕	AUTOMATIC CONTROL VALVE	
——	SCH 40 PVC MAINLINE	
———	SCH 40 LATERAL LINE	
- - -	SCH 40 SLEEVE	

PIPE SIZE CHART

GPM	SIZE
0 – 8	0"
8 – 13	1"
13 – 22	1l"
22 – 30	1Ð"
30 – 50	2"

NOTE: ALL IRRIGATION MAINLINE SHALL BE 2" PVC SCH 40, UNLESS OTHERWISE NOTED ON PLANS.

IRRIGATION PIPING WILL BE SIZED IN NEXT SUBMITTAL (100%).

SEE SHEET 107 -108 FOR IRRIGATION SCHEDULE, DETAILS AND GENERAL NOTES.

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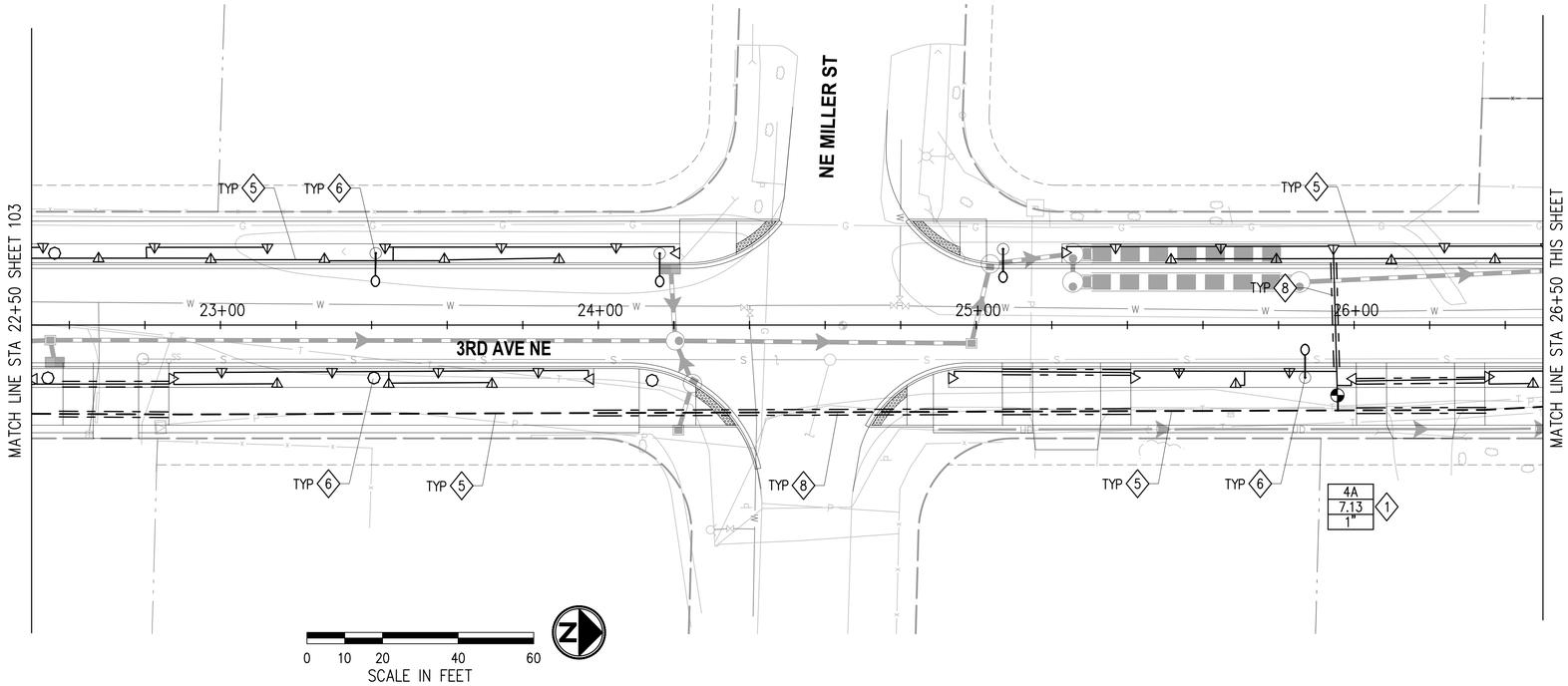
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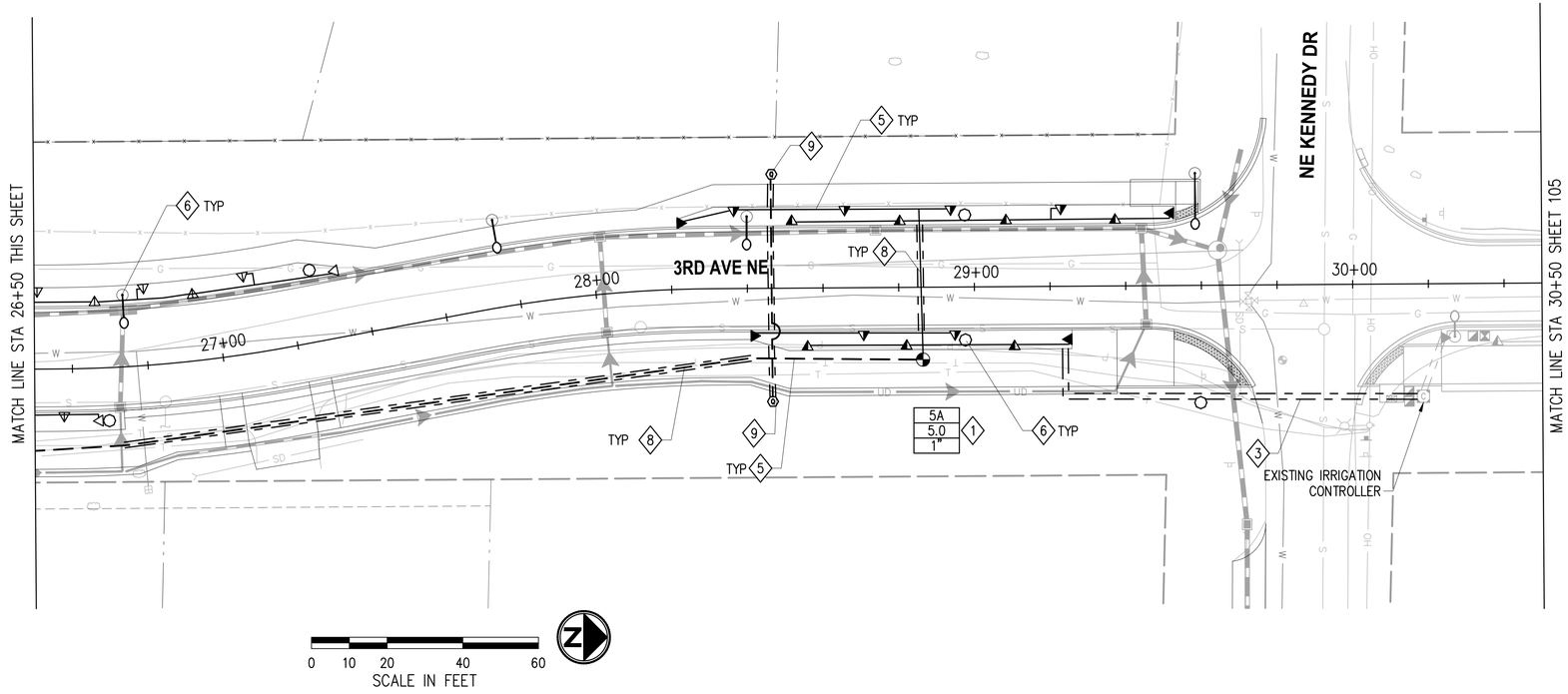
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IRRIGATION PLAN
STA 13+50 TO STA 22+50

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CONSTRUCTION NOTES

1. INSTALL CONTROL VALVE BOX IN PLANTER AREA, TIGHT TO EDGE OF PLANTER OR BACK OF SIDEWALK TO MAXIMIZE PLANTING AREA; LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC.
3. INSTALL 2" CONDUIT SLEEVE FROM EXISTING IRRIGATION CONTROLLER TO PLANTER. EXTEND REQUIRED CONTROLLER WIRES AS NEEDED THROUGH SLEEVE.
5. MAINLINE AND LATERAL LINES TO BE LOCATED IN PLANTERE WHERE POSSIBLE; LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC.
6. COORDINATE SLEEVING, MAIN LINE AND LATERAL LINE INSTALLATION WITH ILLUMINATION CONDUIT AND FOOTING LOCATIONS.
8. ALL IRRIGATION LINES LOCATED UNDER PAVEMENT SHALL BE SLEEVED PER GENERAL NOTES SHEET 107 AND PER SPECIAL PROVISIONS. THE CONTRACTOR SHALL COORDINATE ALL SLEEVING LOCATIONS WITH OTHER UTILITIES AND INSTALL PRIOR TO ALL ROADWAY AND SIDEWALK PAVEMENT.
9. INSTALL QUICK COUPLER IN VALVE BOX, TIGHT TO BACK OF TRAIL SHOULDER OR BACK OF CURB, SEE DETAIL SHEET 107.

SPRAY IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL NO	
◭ ▶	HUNTER	SHRUB CORNER AND SIDE STRIP SERIES MP-LCS/RCS-515, SS-530
△ ▷	HUNTER	LAWN CORNER AND SIDE STRIP SERIES MP-LCS/RCS-515, SS-530
◕	AUTOMATIC CONTROL VALVE	
— —	SCH 40 PVC MAINLINE	
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PIPE SIZE CHART

GPM	SIZE
0 – 8	0"
8 – 13	1"
13 – 22	1l"
22 – 30	1Ð"
30 – 50	2"

NOTE: ALL IRRIGATION MAINLINE SHALL BE 2" PVC SCH 40, UNLESS OTHERWISE NOTED ON PLANS.

IRRIGATION PIPING WILL BE SIZED IN NEXT SUBMITTAL (100%).

SEE SHEET 107 -108 FOR IRRIGATION SCHEDULE, DETAILS AND GENERAL NOTES.

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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JS	01/2025
DESIGNED BY	DATE
JS	01/2025
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LG	01/2025
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STATE OF WASHINGTON ELIZABETH GIBSON NO 638 EXP. 08/18/2026 LANDSCAPE ARCHITECT

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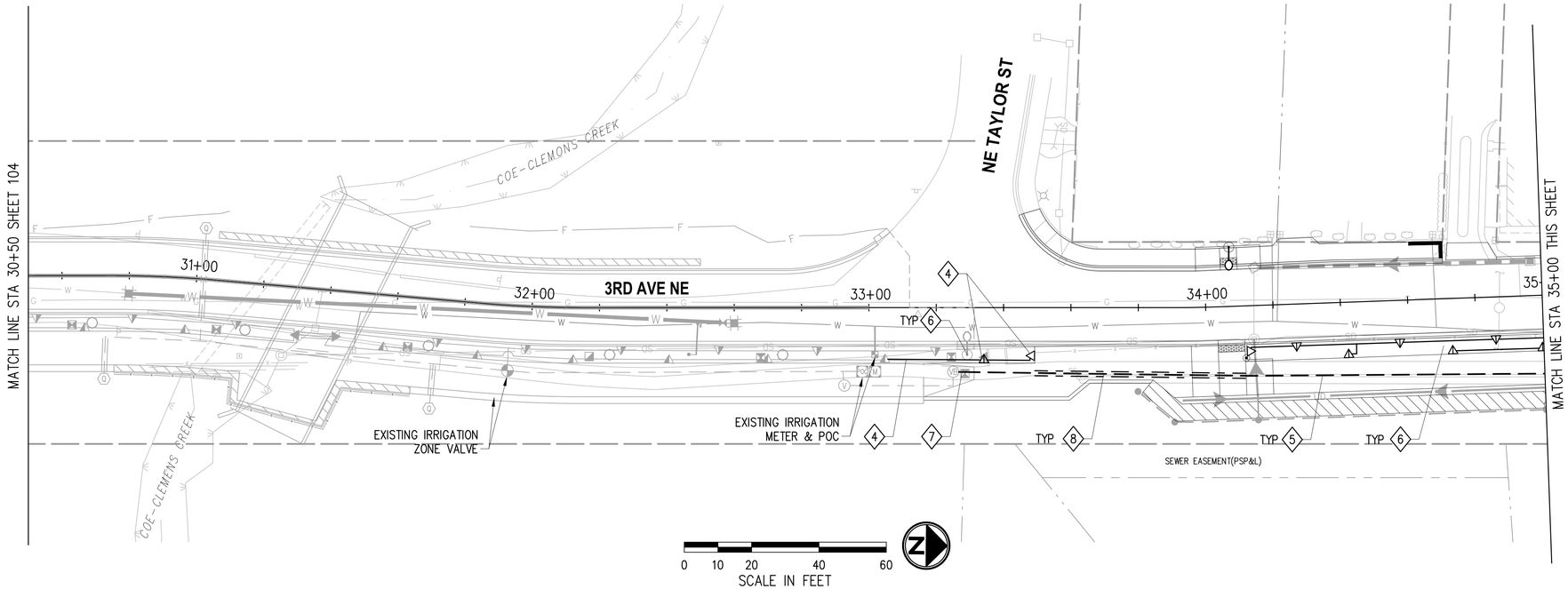
City of Duvall
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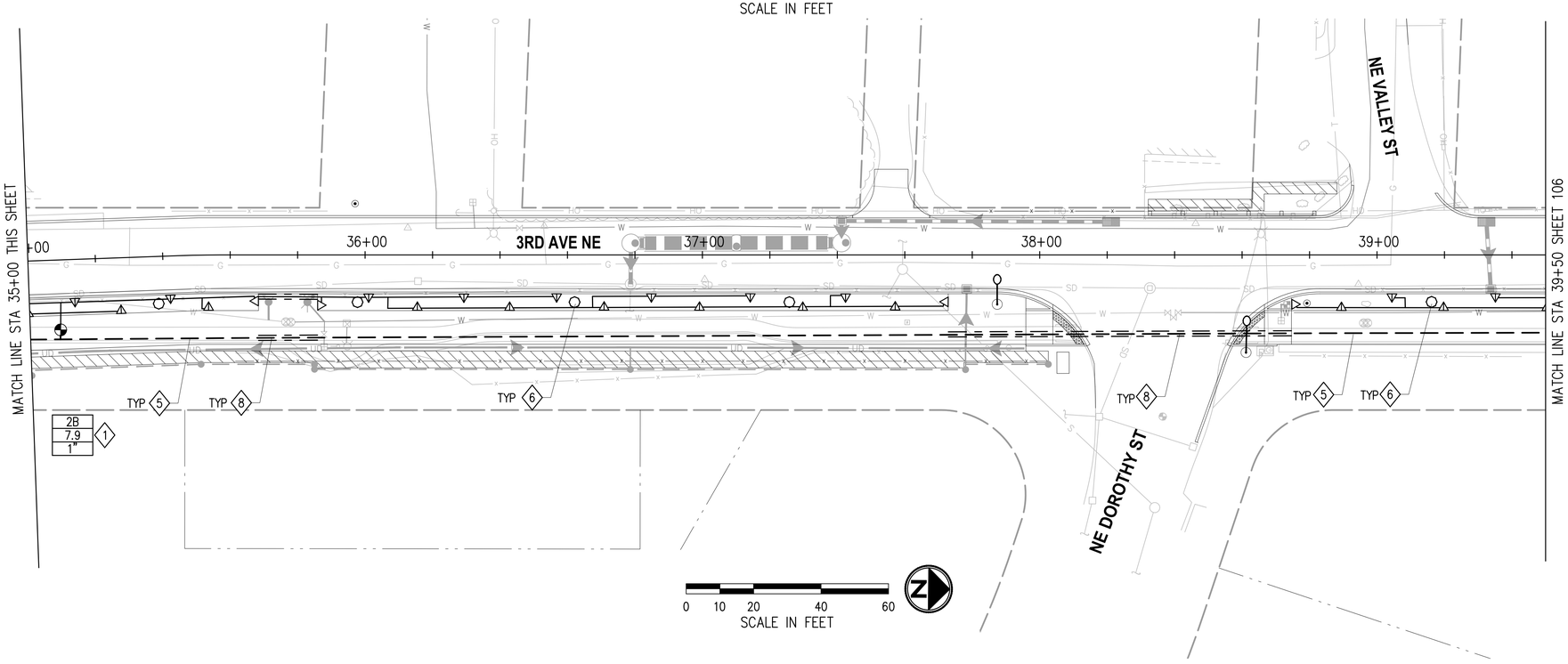
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

IRRIGATION PLAN
STA 22+50 TO STA 30+50

KPG PROJECT No. 21078 | SHT 104 OF 119

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CONSTRUCTION NOTES

1. INSTALL CONTROL VALVE BOX IN PLANTER AREA, TIGHT TO EDGE OF PLANTER OR BACK OF SIDEWALK TO MAXIMIZE PLANTING AREA; LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC.
4. ADJUST EXISTING SPRAY HEADS AND LATERAL LINES TO ACHIEVE FULL COVERAGE PER PLAN LAYOUT.
5. MAINLINE AND LATERAL LINES TO BE LOCATED IN PLANTERE WHERE POSSIBLE; LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC.
6. COORDINATE SLEEVING, MAIN LINE AND LATERAL LINE INSTALLATION WITH ILLUMINATION CONDUIT AND FOOTING LOCATIONS.
7. TIE-IN TO EXISTING CAPPED MAINLINE STUBOUT LOCATED IN VALVE BOX. EXTEND SPARE VALVE WIRES TO CONTROL VALVES.
8. ALL IRRIGATION LINES LOCATED UNDER PAVEMENT SHALL BE SLEEVED PER GENERAL NOTES SHEET 107 AND PER SPECIAL PROVISIONS. THE CONTRACTOR SHALL COORDINATE ALL SLEEVING LOCATIONS WITH OTHER UTILITIES AND INSTALL PRIOR TO ALL ROADWAY AND SIDEWALK PAVEMENT.

SPRAY IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL NO	
◭ ▶	HUNTER	SHRUB CORNER AND SIDE STRIP SERIES MP-LCS/RCS-515, SS-530
△ ▷	HUNTER	LAWN CORNER AND SIDE STRIP SERIES MP-LCS/RCS-515, SS-530
◕	AUTOMATIC CONTROL VALVE	
——	SCH 40 PVC MAINLINE	
———	SCH 40 LATERAL LINE	
– – –	SCH 40 SLEEVE	

PIPE SIZE CHART

GPM	SIZE
0 – 8	0"
8 – 13	1"
13 – 22	1l"
22 – 30	1Ð"
30 – 50	2"

NOTE: ALL IRRIGATION MAINLINE SHALL BE 2" PVC SCH 40, UNLESS OTHERWISE NOTED ON PLANS.

IRRIGATION PIPING WILL BE SIZED IN NEXT SUBMITTAL (100%).

SEE SHEET 107 -108 FOR IRRIGATION SCHEDULE, DETAILS AND GENERAL NOTES.

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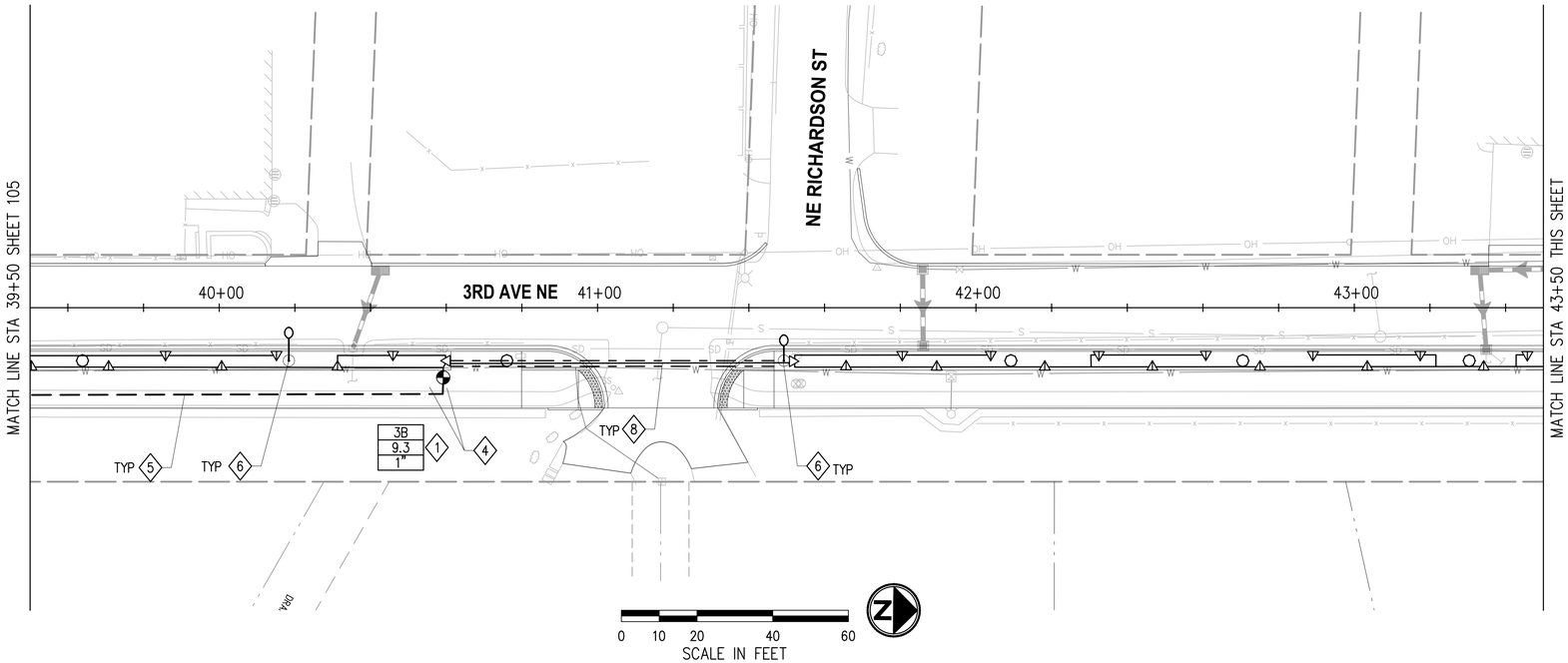
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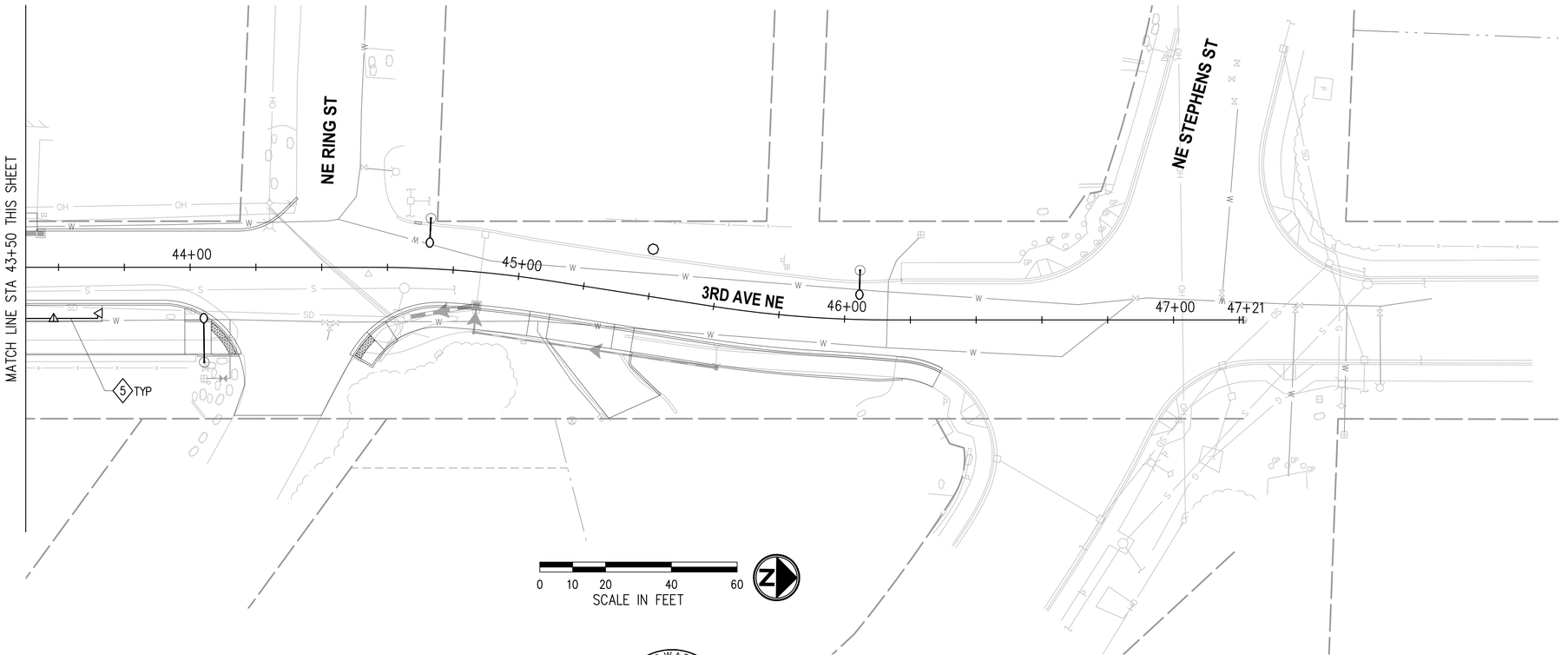
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

IRRIGATION PLAN
STA 30+50+00 TO STA 39+50

KPG PROJECT No. 21078 | SHT 105 OF 119

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CONSTRUCTION NOTES

1. INSTALL CONTROL VALVE BOX IN PLANTER AREA, TIGHT TO EDGE OF PLANTER OR BACK OF SIDEWALK TO MAXIMIZE PLANTING AREA; LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC.
5. MAINLINE AND LATERAL LINES TO BE LOCATED IN PLANTERE WHERE POSSIBLE; LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC.
6. COORDINATE SLEEVING, MAIN LINE AND LATERAL LINE INSTALLATION WITH ILLUMINATION CONDUIT AND FOOTING LOCATIONS.
8. ALL IRRIGATION LINES LOCATED UNDER PAVEMENT SHALL BE SLEEVED PER GENERAL NOTES SHEET 107 AND PER SPECIAL PROVISIONS. THE CONTRACTOR SHALL COORDINATE ALL SLEEVING LOCATIONS WITH OTHER UTILITIES AND INSTALL PRIOR TO ALL ROADWAY AND SIDEWALK PAVEMENT.

SPRAY IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL NO	
◭ ▶	HUNTER	SHRUB CORNER AND SIDE STRIP SERIES MP-LCS/RCS-515, SS-530
△ ▷	HUNTER	LAWN CORNER AND SIDE STRIP SERIES MP-LCS/RCS-515, SS-530
◕	AUTOMATIC CONTROL VALVE	
— —	SCH 40 PVC MAINLINE	
———	SCH 40 LATERAL LINE	
– – –	SCH 40 SLEEVE	

PIPE SIZE CHART

GPM	SIZE
0 – 8	0"
8 – 13	1"
13 – 22	11"
22 – 30	1Ð"
30 – 50	2"

NOTE: ALL IRRIGATION MAINLINE SHALL BE 2" PVC SCH 40, UNLESS OTHERWISE NOTED ON PLANS.

IRRIGATION PIPING WILL BE SIZED IN NEXT SUBMITTAL (100%).

SEE SHEET 107 -108 FOR IRRIGATION SCHEDULE, DETAILS AND GENERAL NOTES.

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CITY OF DUVALL
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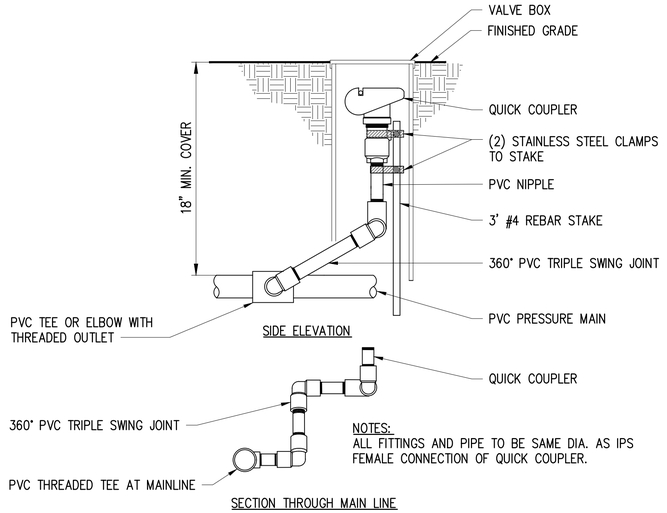
IRRIGATION PLAN
STA 39+50 TO STA 47+20

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IRRIGATION LEGEND

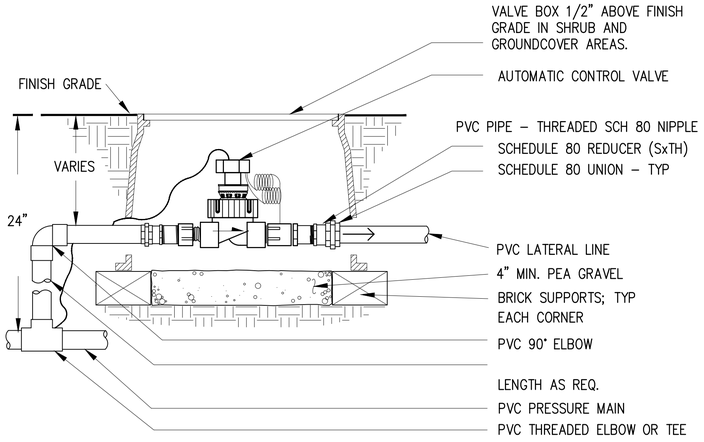
SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION
▲ LCS/ RCS ◭ SST	HUNTER MP ROTATOR STRIP NOZZLES	MP-LCS/RCS-515-PROS-06-PRS30-CV, MP-SS-530-PROS-06-PRS30-CV	SHRUB NOZZLE – 6" PLASTIC POP-UP. 5'x'15' (LCS/RCS) AND 5'x30' (SS) AT 30 PSI. CORNER AND SIDE STRIP NOZZLE, INSTALL PER FLEXIBLE RISER DETAIL THIS SHEET.
△ LCS/ RCS ⚠ SST	HUNTER STRIP PATTERN NOZZLES OR APPROVED EQUAL	MP-LCS/RCS-515-PROS-04-PRS30-CV, MP-SS-530-PROS-04-PRS30-CV	SHRUB NOZZLE – 4" PLASTIC POP-UP. 5'x'15' (LCS/RCS) AND 5'x30' (SS) AT 30 PSI. CORNER AND SIDE STRIP NOZZLE, INSTALL PER FLEXIBLE RISER DETAIL THIS SHEET.
C	EXISTING IRRIGATION CONTROLLER		IRRIGATION CONTROLLER, WITH STAINLESS STEEL METAL PEDESTAL/CABINET ENCLOSURE. EXTEND CONTROL WIRES FROM EXISTING CONTROLLER TO SOUTH END OF PROJECT, INCLUDING FLOW SENSOR MODULE AND MASTER SHUT OFF VALVE. EXTEND CONTROL WIRES FROM EXISTING MAINLINE STUB OUT ON NORTH END, AS NOTED ON PLANS.
	RAINBIRD OR APPROVED EQUAL	PEB	AUTOMATIC CONTROL VALVE – SIZE AS NOTED ON PLAN. SEE DETAIL, THIS SHEET.
POC	POINT OF CONNECTION EQUIPMENT.		
M			1" IRRIGATION METER, SEE SHEET 25.
	FEBCO OR APPROVED EQUAL	850	1¼" BACK FLOW PREVENTION, INSTALL IN LOCATION SHOWN. SEE DETAIL SHEET 108
Q	RAINBIRD	44LRC	1" BRASS QUICK COUPLER VALVE WITH LOCKING VINYL COVER. INSTALL PER DETAIL, THIS SHEET. INSTALL ONE AT EACH DOUBLE CHECK VALVE ASSEMBLY, AND AS NOTED ON PLANS.
— — —			PVC SCH 40, IRRIGATION MAIN LINE – 24" MIN. COVER – SIZE AS NOTED ON PLAN.
———			PVC SCH 40, LATERAL SUPPLY LINE– 18" MIN. COVER – SIZE AS NOTED ON PLAN.
— - —			SLEEVING, PVC SCHEDULE 40, SIZE TWICE INSERT PIPE DIA.
A/B 10.5 1"	INDICATES VALVE # A – SOUTH END OF IRRIGATION SYSTEM, B – NORTH SYSTEM INDICATES APPROX. GPM INDICATES VALVE SIZE		



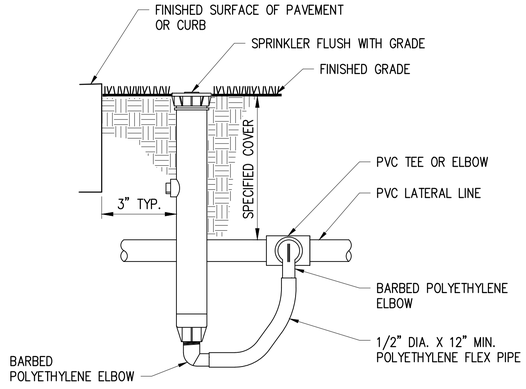
QUICK COUPLING VALVE/TRIPLE SWING JOINT
NTS

GENERAL NOTES

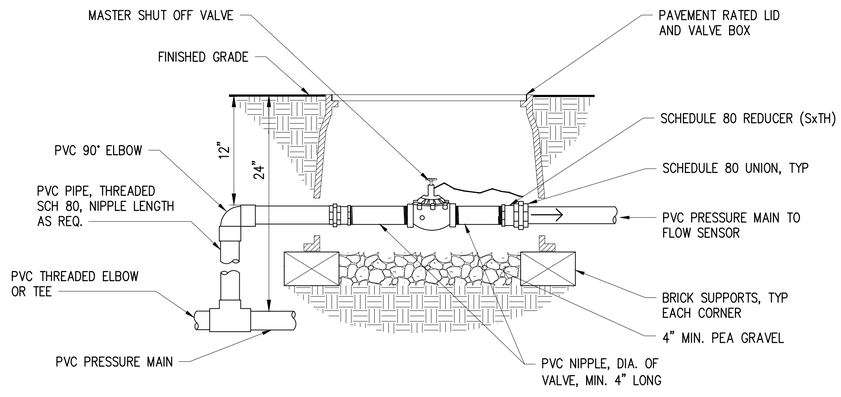
1. COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH INSTALLATION OF OTHER UTILITIES. LOCATE AND PROTECT ALL UNDERGROUND UTILITIES DURING INSTALLATION OF IRRIGATION SYSTEM.
2. CONTRACTOR MUST COORDINATE SLEEVING, ROAD CROSSING AND PIPE LOCATIONS WITH INSTALLATION OF UNDERGROUND UTILITIES (INCLUDING ELECTRICAL, SEWER, WATER AND GAS), SIDEWALK, URBAN DESIGN FEATURES AND ILLUMINATION.
3. IRRIGATION SYSTEM SHALL BE INSTALLED, TESTED, MAINTAINED AND GUARANTEED AS PER SPECIFICATIONS.
4. IRRIGATION SYSTEM IS DESIGNED TO OPERATE AT 25–30 PSI. CONTRACTOR SHALL FIELD CHECK EXISTING WATER PRESSURE, ADJUSTING PRESSURE REDUCING VALVE AS NECESSARY TO PROVIDE OPTIMAL PERFORMANCE.
5. LOCATION OF IRRIGATION MAINLINE, LATERALS, SLEEVING AND VALVES INDICATED ON DRAWING ARE DIAGRAMMATIC ONLY. ADJUST LOCATIONS AS NECESSARY. DO NOT OVERSPRAY ONTO PAVED SURFACES.
6. MAINLINE SHALL BE BURIED AT A DEPTH OF 24" BELOW FINISH GRADE. LATERAL LINES SHALL BE BURIED TO A DEPTH OF 18" BELOW FINISH GRADE.
7. SLEEVE UNDER ALL PAVED SURFACES AND CONCRETE SIDEWALK. SEE IRRIGATION PLANS FOR LOCATION OF PVC SLEEVING, SLEEVING SHALL BE 2 TIMES THE DIAMETER OF THE INSERT PIPE AND WIRES.
8. CONTROLLER WIRES SHALL BE TAPED TO IRRIGATION MAIN OR LATERAL LINES WHERE POSSIBLE. IF NOT AVAILABLE, WIRES TO CONTROLLER SHALL BE PLACED IN 1" /1.5" SLEEVE, USE 3M DBY SPLICE KITS.
9. ALL EQUIPMENT SHALL BE AS SPECIFIED OR APPROVED EQUAL. SYSTEM IS SPECIFICALLY DESIGNED FOR IRRIGATION EQUIPMENT SHOWN ON PLANS AND SUBSTITUTION WILL REQUIRE REDESIGN AND RECALCULATION OF IRRIGATION ZONES.



AUTOMATIC CONTROL VALVE
NTS



TYPICAL FLEXIBLE RISER
NTS



MASTER SHUT OFF VALVE
NTS

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ENGINEERING MANAGER	DATE	FILENAME DESIGNED BY	21078IRR-DET.dwg 01/2025 DATE 01/2025
PROJECT MANAGER	DATE	DRAWN BY	DATE 01/2025
PROJECT ENGINEER	DATE	CHECKED BY	DATE

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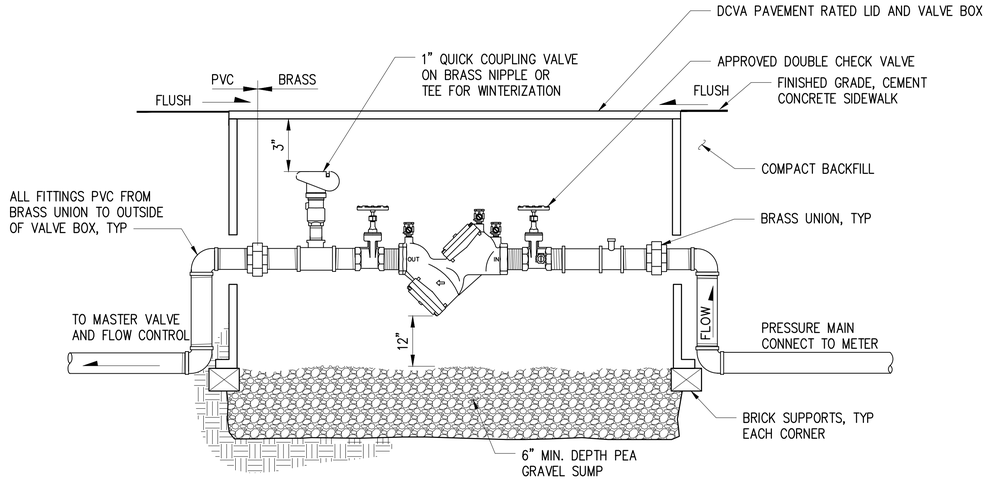
City of Duvall
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

IRRIGATION DETAILS

KPG PROJECT No. 21078 | SHT 107 OF 119

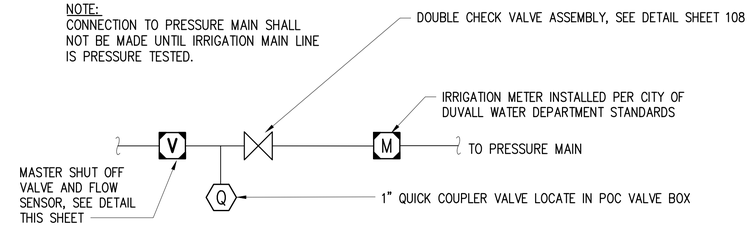
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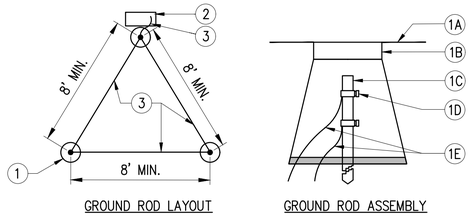
NOTE:
INSTALL ASSEMBLY IN ACCORDANCE WITH CITY OF DUVALL WATER DEPARTMENT STANDARD DETAIL 2-153-002

DOUBLE CHECK VALVE ASSEMBLY
NTS

NOTE:
CONNECTION TO PRESSURE MAIN SHALL NOT BE MADE UNTIL IRRIGATION MAIN LINE IS PRESSURE TESTED.



TYPICAL POINT OF CONNECTION ASSEMBLY
NTS



GROUND ROD LAYOUT

GROUND ROD ASSEMBLY

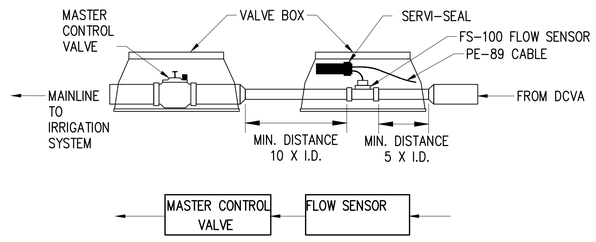
(1) GROUND ROD ASSEMBLY (3 TOTAL)
- (1A) FINAL GRADE
- (1B) 6" VALVE BOX
- (1C) 8' COPPER CLAD GROUND ROD
- (1D) GROUND ROD CLAMPS
- (1E) MIN 10-1 BARE COPPER

(2) PROTECTED DEVICE

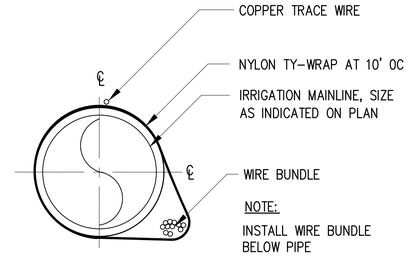
(3) BARE COPPER GROUND WIRE

NOTES:
1. MINIMUM 8' SPACING BETWEEN RODS
2. USE 10g (MINIMUM) BARE COPPER WIRE.
3. WIRE FROM EQUIPMENT TO FIRST ROD SHOULD BE AS SHORT AND STRAIGHT AS POSSIBLE.
4. USE SEPARATE CLAMP FOR EACH WIRE.

GROUNDING GRID DETAIL
NTS



FLOW SENSOR METER RUN
NTS



NOTE:
INSTALL WIRE BUNDLE BELOW PIPE

CONTROL WIRE BUNDLE INSTALLATION
NTS

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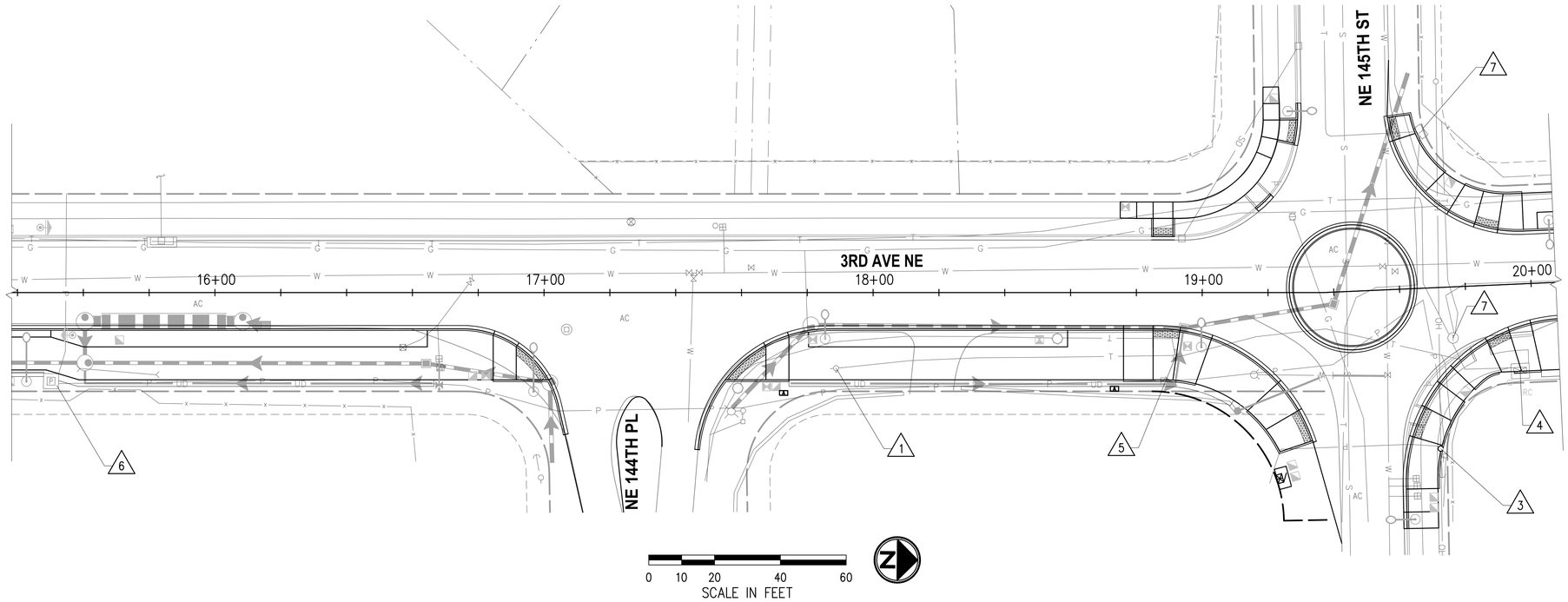
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

IRRIGATION DETAILS

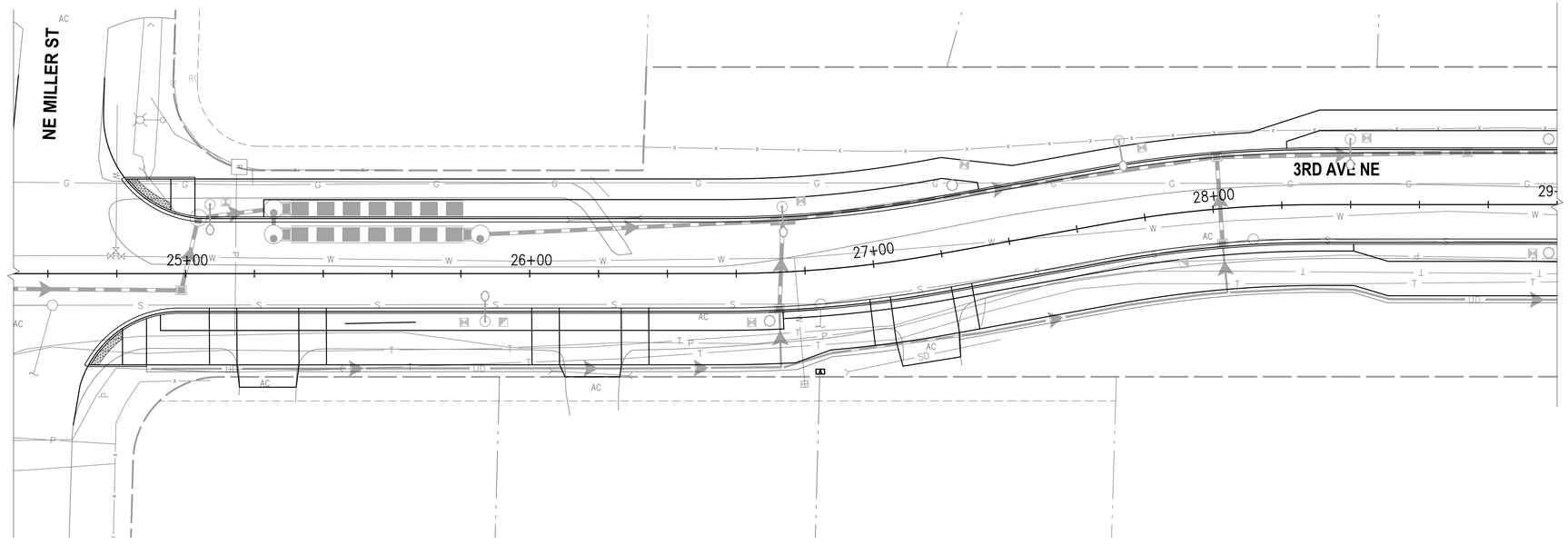
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SHT 108 OF 119

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0 10 20 40 60
SCALE IN FEET



0 10 20 40 60
SCALE IN FEET

GENERAL NOTES

1. SEE GENERAL JOINT UTILITY TRENCH (JUT) NOTES & JUT TYPICAL SECTION AND DETAILS, SHEET 113.

CONSTRUCTION NOTES

1. RELOCATE UTILITY POLE BY OTHERS. COORDINATE WITH ZIPLY FIBER.
3. EXISTING UTILITY POLE TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION.
4. EXISTING PEDESTAL TO BE REMOVED BY ZIPLY FIBER.
5. RELOCATE TELEPHONE RISER BY ZIPLY FIBER.
6. ADJUST EXISTING POWER VAULT TO GRADE BY PSE.
7. ADJUST UTILITY STRUCTURE TO GRADE BY ZIPLY FIBER.

FRANCHISE UTILITY STRUCTURE TABLE

NUMBER	STATION	OFFSET	STRUCTURE DESCRIPTION
A01	17+72.80	30.49' RT	ASTOUND 17" x 30" VAULT
A02	18+73.35	29.21' RT	ASTOUND 17" x 30" VAULT
A03	26+82.27	29.54' RT	ASTOUND 17" x 30" VAULT

LEGEND

- EXISTING ROW
- PROPOSED ROW
- PROPERTY LINE
- JOINT UTILITY TRENCH
- A 1" — ASTOUND 1" SERVICE CONDUIT
- A 4" — ASTOUND 4" SERVICE CONDUIT
- C 4" — COMCAST 4" SERVICE CONDUIT
- P 2" — PSE 2" SERVICE CONDUIT
- Z 2" — ZIPLY 2" SERVICE CONDUIT

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OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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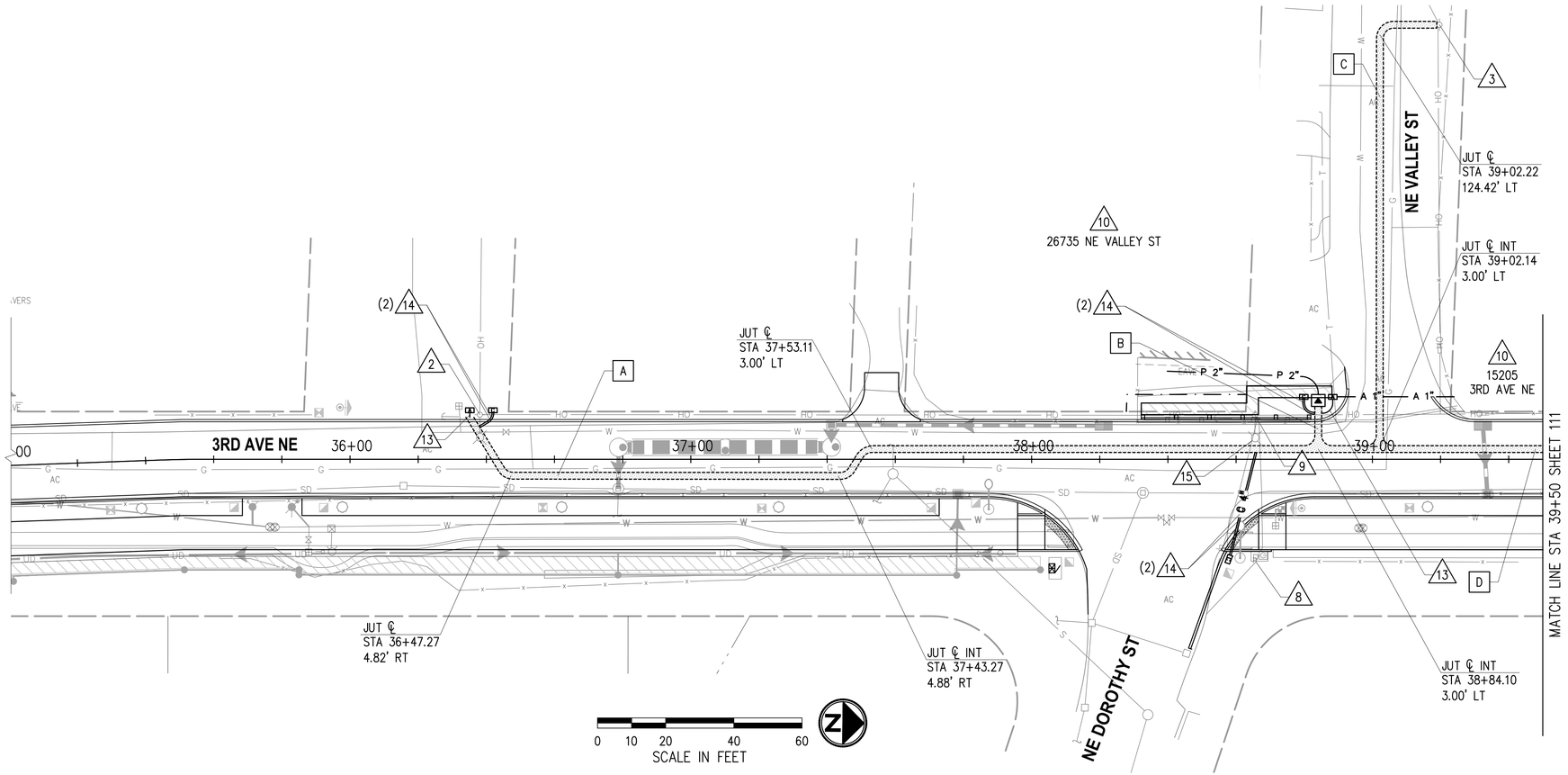
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

JOINT UTILITY TRENCH PLAN
STA 15+30 TO STA 19+80 AND STA 24+50 TO STA 29+00

KPG PROJECT No. 21078 | SHT 109 OF 119

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GENERAL NOTES

1. SEE GENERAL JOINT UTILITY TRENCH (JUT) NOTES & JUT TYPICAL SECTION AND DETAILS, SHEET 113.

CONSTRUCTION NOTES

2 REMOVE UTILITY POLE BY ZIPLY FIBER.

3 EXISTING UTILITY POLE TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION.

8 EXISTING ELECTRICAL METER AND EQUIPMENT TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION.

9 REMOVE UTILITY POLE BY PSE.

10 CONSTRUCT UNDERGROUND SERVICE CONVERSION. SEE SECONDARY ELECTRICAL NOTES, SHEET 113.

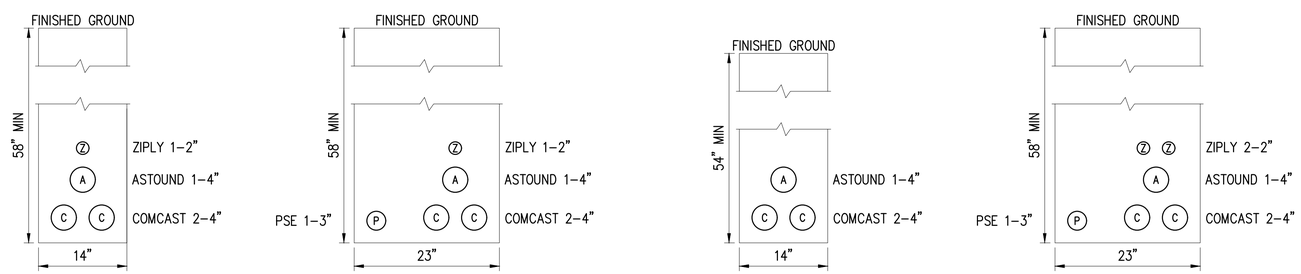
13 INSTALL 4" ASTOUND CONDUIT.

14 INSTALL 4" COMCAST CONDUIT.

15 INTERCEPT AND CONNECT TO EXISINTG TELECOM CONDUIT BY ZIPLY FIBER.

LEGEND

- EXISTING ROW
- PROPOSED ROW
- PROPERTY LINE
- JOINT UTILITY TRENCH
- A 1" — ASTOUND 1" SERVICE CONDUIT
- A 4" — ASTOUND 4" SERVICE CONDUIT
- C 4" — COMCAST 4" SERVICE CONDUIT
- P 2" — PSE 2" SERVICE CONDUIT



SECTION A — NTS, LOOKING NORTH

SECTION B — NTS, LOOKING NORTH

SECTION C — NTS, LOOKING NORTH

SECTION D — NTS, LOOKING NORTH

FRANCHISE UTILITY STRUCTURE TABLE

NUMBER	STATION	OFFSET	STRUCTURE DESCRIPTION
A04	36+35.15	14.38' LT	ASTOUND 17" x 30" VAULT
A05	38+88.37	18.29' LT	ASTOUND 17" x 30" VAULT
C01	36+41.92	14.38' LT	COMCAST 17" x 30" VAULT
C02	38+79.86	18.30' LT	COMCAST 17" x 30" VAULT
C03	38+57.86	29.31' RT	COMCAST 17" x 30" VAULT
V01	38+84.12	17.25' LT	PSE PAD MOUNTED TRANSFORMER

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Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

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OLIVIA B. PARASCHIN — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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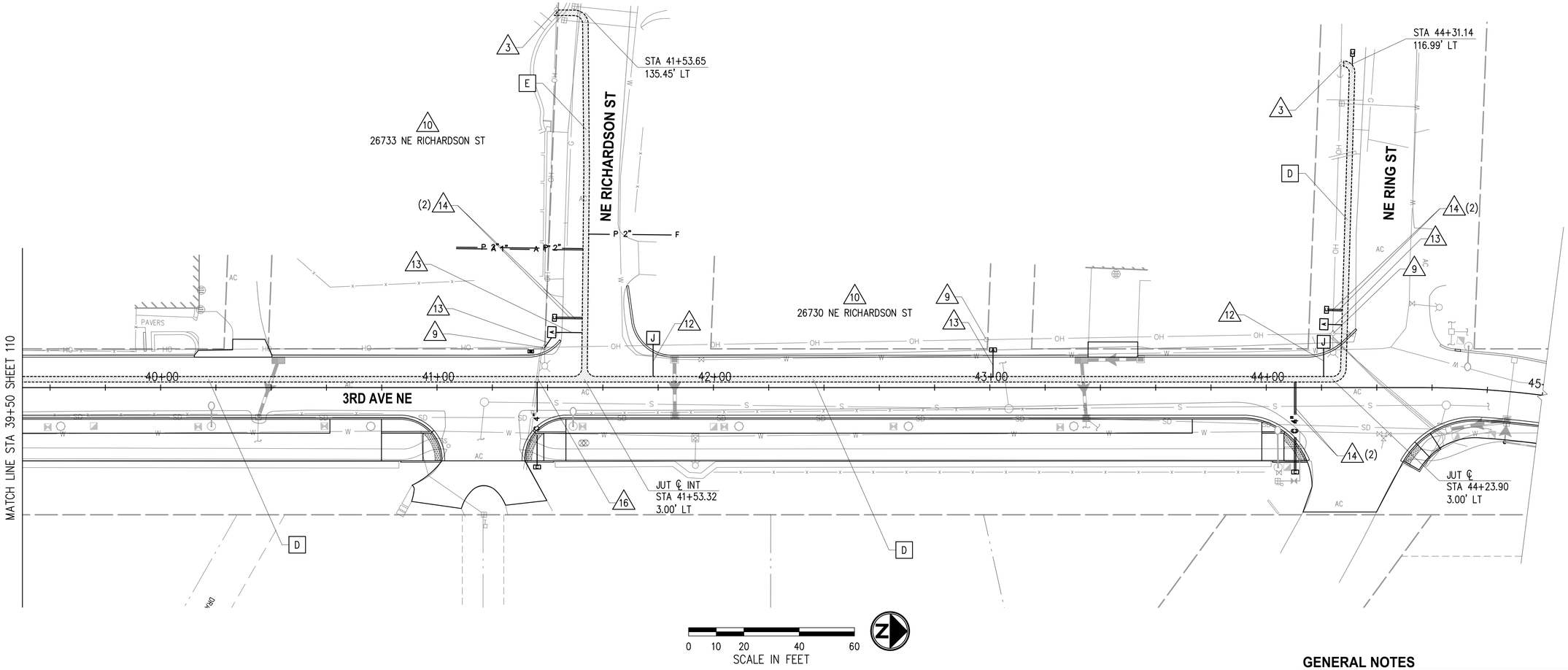
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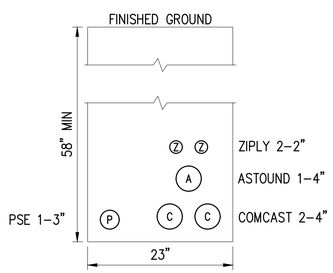
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

JOINT UTILITY TRENCH PLAN
STA 35+00 TO STA 39+50

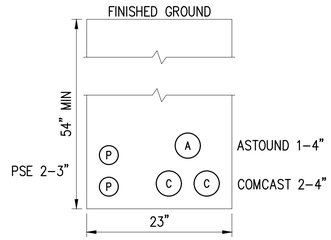
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SECTION D
NTS
LOOKING NORTH



SECTION E
NTS
LOOKING NORTH

FRANCHISE UTILITY STRUCTURE TABLE

NUMBER	STATION	OFFSET	STRUCTURE DESCRIPTION
A06	41+41.52	20.03' LT	ASTOUND 17" x 30" VAULT
A07	43+01.15	13.64' LT	ASTOUND 17" x 30" VAULT
A08	44+20.87	22.90' LT	ASTOUND 17" x 30" VAULT
C04	41+36.20	28.73' RT	COMCAST 17" x 30" VAULT
C05	41+42.52	25.25' LT	COMCAST 17" x 30" VAULT
C06	44+10.46	30.54' RT	COMCAST 17" x 30" VAULT
C07	44+21.81	28.12' LT	COMCAST 17" x 30" VAULT
C08	44+31.26	121.03' LT	COMCAST 17" x 30" VAULT
HH1	41+33.93	13.06' LT	PSE HANDHOLE
J01	41+78.20	17.97' LT	PSE JUNCTION BOX VAULT
J02	44+20.79	16.54' LT	PSE JUNCTION BOX VAULT

LEGEND

- EXISTING ROW
- PROPOSED ROW
- PROPERTY LINE
- JOINT UTILITY TRENCH
- A 1" — ASTOUND 1" SERVICE CONDUIT
- A 4" — ASTOUND 4" SERVICE CONDUIT
- C 4" — COMCAST 4" SERVICE CONDUIT
- P 2" — PSE 2" SERVICE CONDUIT
- Z 2" — ZIPLY 2" SERVICE CONDUIT

GENERAL NOTES

1. SEE GENERAL JOINT UTILITY TRENCH (JUT) NOTES & JUT TYPICAL SECTION AND DETAILS, SHEET 113.

CONSTRUCTION NOTES

3 EXISTING UTILITY POLE TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION.

9 REMOVE UTILITY POLE BY PSE.

10 CONSTRUCT UNDERGROUND SERVICE CONVERSION. SEE SECONDARY ELECTRICAL NOTES, SHEET 113.

12 INSTALL 3" PSE CONDUIT.

13 INSTALL 4" ASTOUND CONDUIT.

14 INSTALL 4" COMCAST CONDUIT.

16 INTERCEPT AND CONNECT TO EXISTING TELECOM CONDUIT BY ASTOUND BROADBAND.

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PROJECT ENGINEER	DATE

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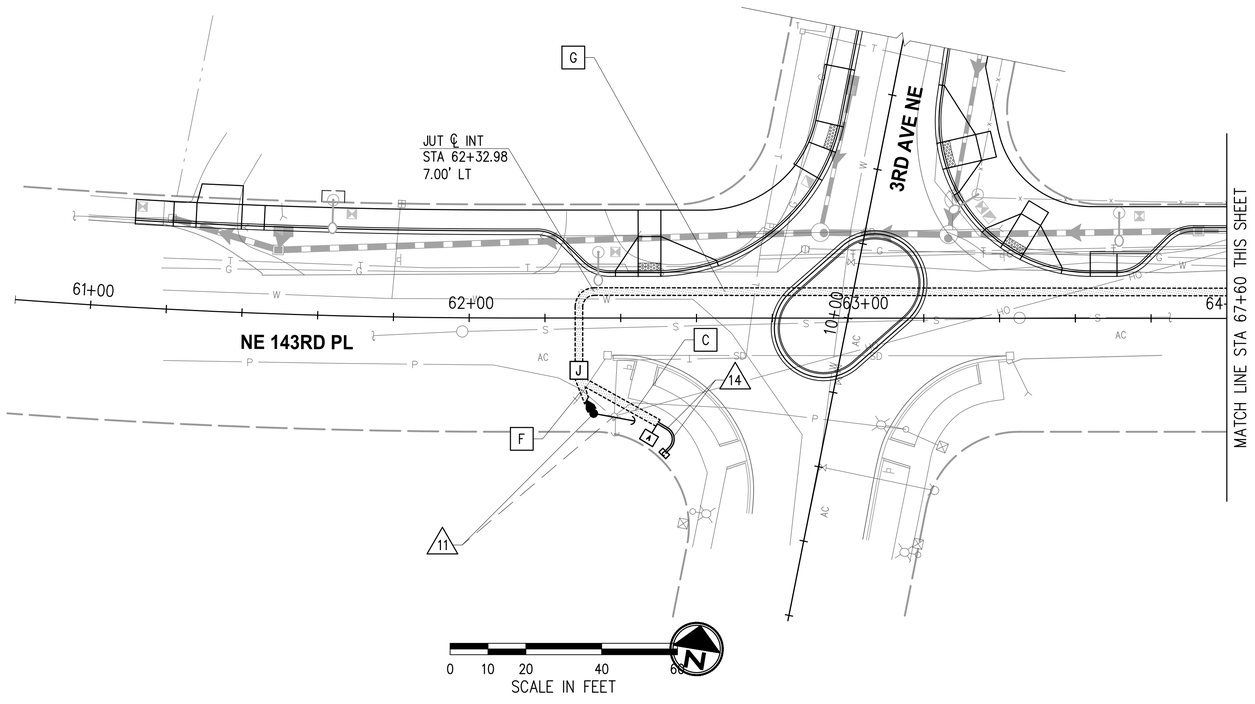
CITY OF DUVALL
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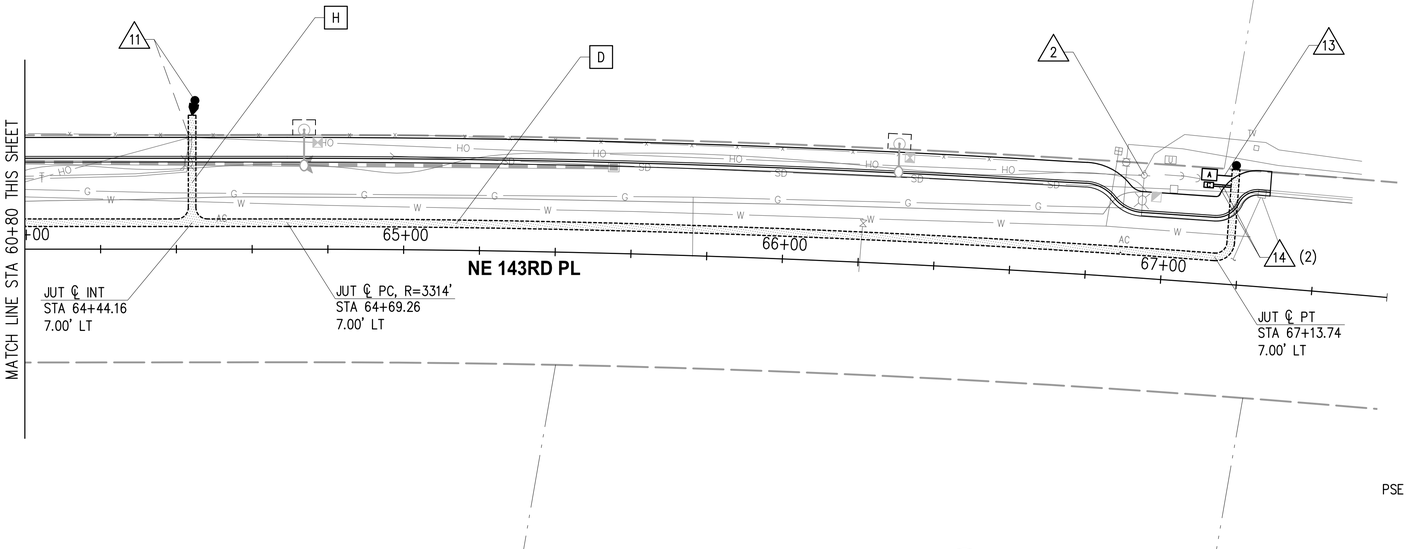
JOINT UTILITY TRENCH PLAN
STA 39+50 TO STA 45+00

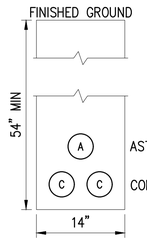
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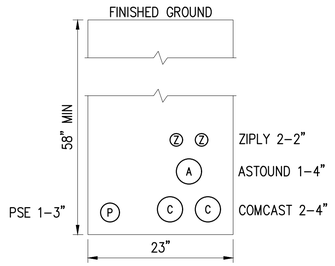
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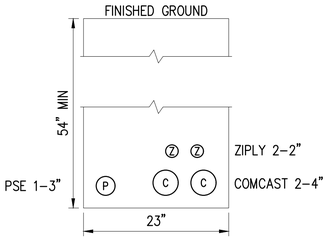




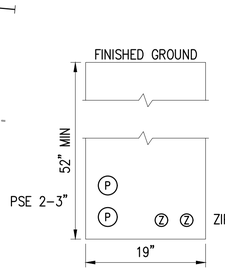
SECTION C
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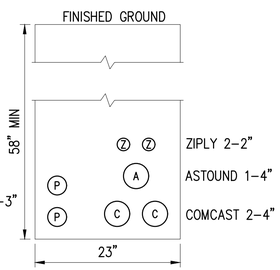
SECTION D
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SECTION H
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SECTION F
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LOOKING NORTH



SECTION G
NTS
LOOKING NORTH

GENERAL NOTES

1. SEE GENERAL JOINT UTILITY TRENCH (JUT) NOTES & JUT TYPICAL SECTION AND DETAILS, SHEET 113.

CONSTRUCTION NOTES

2. REMOVE UTILITY POLE BY ZIPLY FIBER.
3. EXISTING UTILITY POLE TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION.
11. RELOCATE UTILITY POLE BY PSE.
13. INSTALL 4" ASTOUND CONDUIT.
14. INSTALL 4" COMCAST CONDUIT.

FRANCHISE UTILITY STRUCTURE TABLE

NUMBER	STATION	OFFSET	STRUCTURE DESCRIPTION
A09	62+47.47	31.62' RT	ASTOUND 17" x 30" VAULT
A10	67+10.85	28.54' LT	ASTOUND 17" x 30" VAULT
C09	62+51.50	35.74' RT	COMCAST 17" x 30" VAULT
C10	67+10.86	25.83' LT	COMCAST 17" x 30" VAULT
J03	62+28.97	13.80' RT	PSE JUNCTION BOX VAULT

LEGEND

- EXISTING ROW
- PROPOSED ROW
- PROPERTY LINE
- JOINT UTILITY TRENCH
- A 1" — ASTOUND 1" SERVICE CONDUIT
- A 4" — ASTOUND 4" SERVICE CONDUIT
- C 4" — COMCAST 4" SERVICE CONDUIT
- P 2" — PSE 2" SERVICE CONDUIT
- Z 2" — ZIPLY 2" SERVICE CONDUIT
- PROPOSED UTILITY EASEMENT

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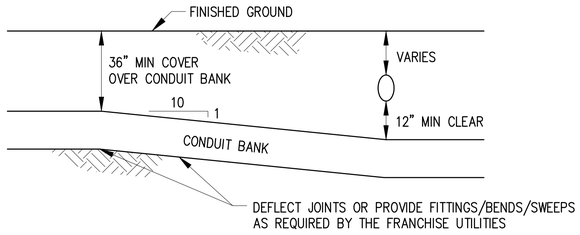
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Small Town. Real Life.

CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

JOINT UTILITY TRENCH PLAN
STA 60+80 TO STA 67+60

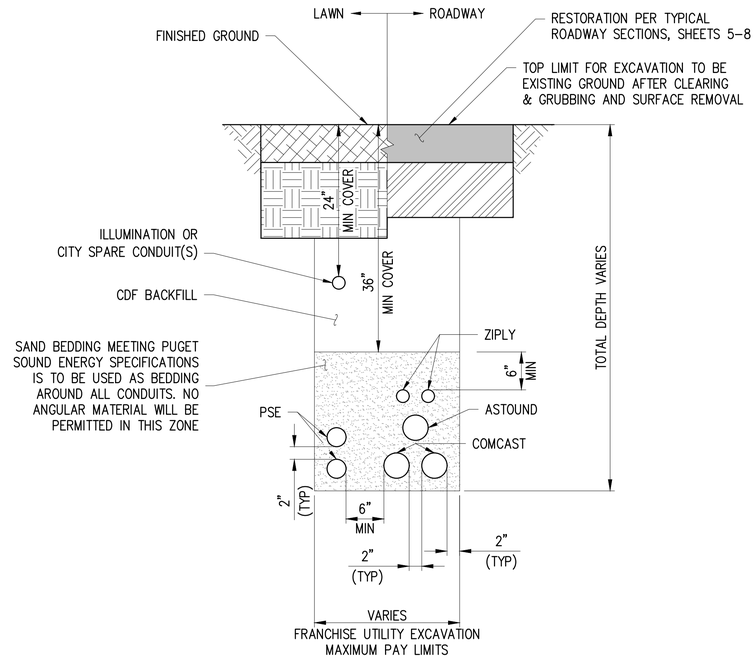
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TYPICAL JOINT UTILITY TRENCH TRANSITION

NTS



NOTES

1. POWER CONDUITS SHALL BE SEPARATED FROM COMMUNICATION CONDUITS BY A MINIMUM HORIZONTAL DISTANCE OF 6".
2. POWER CONDUITS SHALL BE SEPARATED FROM OTHER POWER CONDUITS BY A MINIMUM OF 2" HORIZONTALLY AND VERTICALLY.
3. NON-POWER COMMUNICATION CONDUITS SHALL BE SEPARATED FROM OTHER NON-POWER COMMUNICATION CONDUITS BY A MINIMUM OF 2" HORIZONTALLY AND VERTICALLY.
4. ALL STACKED CONDUITS SHALL INCLUDE SPACERS PER PSE STANDARD 6800.6000.
5. ALL CONDUITS AND FITTINGS TO BE PVC SCHEDULE 40.
6. ILLUMINATION AND CITY SPARE CONDUITS TO BE INCORPORATED IN THE JOINT TRENCH WHERE PRACTICAL.
7. TRENCH SECTION SHOWN IS APPROXIMATE AND TYPICAL OF MANY, BUT NOT ALL. SEE GENERAL JOINT UTILITY TRENCH NOTES, THIS SHEET.

TYPICAL JUT SECTION

NTS

GENERAL JOINT UTILITY TRENCH NOTES

1. EXISTING UNDERGROUND UTILITIES TO BE CONVERTED TO NEW UNDERGROUND ALIGNMENT TO THE LIMITS SHOWN. CONTRACTOR SHALL PROVIDE ALL NECESSARY COORDINATION, LAYOUT, SURVEYING, TRENCHING, EXCAVATION, BEDDING, BACKFILL, AND RESTORATION FOR THE FRANCHISE UTILITIES TO SUCCESSFULLY COMPLETE THE CONVERSION. THE LAYOUT SHOWN IS APPROXIMATE AND A COMPILATION OF THE DESIGNS BY PSE, ASTOUND BROADBAND, AND EXISTING FIBER.
2. THE JOINT UTILITY TRENCH LAYOUT, SWEEPS, VAULTS, AND OTHER FEATURES SHOWN ARE APPROXIMATE. ADJUST AS NECESSARY TO MEET FRANCHISE UTILITY REQUIREMENTS AND TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM. ALL CONDUIT MATERIALS, BENDS, VAULTS, AND OTHER MATERIALS INSTALLED BY THE CONTRACTOR SHALL BE PER THE REQUIREMENTS AND SPECIFICATIONS OF THE FRANCHISE UTILITIES.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS AND VAULTS EXCEPT WHERE INDICATED TO BE FURNISHED AND/OR INSTALLED BY OTHERS. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE EXCAVATED TRENCH TO ALLOW FRANCHISE UTILITIES TO INSTALL THEIR VAULTS AND CONDUITS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EXCAVATION, BEDDING, BACKFILL, TRAFFIC CONTROL AND UTILITY COORDINATION TO PROVIDE A COMPLETE INSTALLATION.
4. CONSTRUCT THE JOINT UTILITY TRENCH PER THE TYPICAL TRENCH DETAILS AND SECTIONS. ADJUST THE HORIZONTAL ALIGNMENT AND VERTICAL PROFILE AS NECESSARY TO AVOID CONFLICTS WITH EXISTING AND PROPOSED UTILITIES AND ROADWAY FEATURES, WHILE MAINTAINING 3' MINIMUM COVER OVER CONDUITS AND 12" MINIMUM VERTICAL CLEAR BETWEEN OTHER UNDERGROUND UTILITIES. THE CONTRACTOR SHALL VERTICALLY TRANSITION THE TRENCH DEPTH BY DEFLECTING JOINTS OR INSTALLING BENDS PER THE FRANCHISE UTILITY REQUIREMENTS.
5. WORK SHALL BE SEQUENCED TO ALLOW CONTINUED OPERATION OF ALL EXISTING UNDERGROUND UTILITIES UNTIL JOINT UTILITY TRENCH WORK IS COMPLETE.
6. CONTRACTOR SHALL PRESERVE AND PROTECT ALL FACILITIES TO REMAIN.
7. ALL DISTURBED CURB, GUTTER, SIDEWALK, AND PLANTER AREAS SHALL BE REPLACED IN KIND.
8. FRANCHISE UTILITY STRUCTURES SHOWN ON JUT SHEETS 109-112. STATIONS AND OFFSETS REFERENCE CENTER OF STRUCTURE.
9. ALL CITY SPARE CONDUITS SHALL HAVE DETECTABLE PULL TAPE AND SHALL BE LABELED AS "CITY OF DUVALL" CONDUIT.
10. DUCTS SHALL BE PROOFED, HAVE STRING/MULE TAPE PULLED THROUGH, AND CAPPED FOR FUTURE USE.

SECONDARY ELECTRICAL NOTES

1. PROVIDE THOROUGH LOCATE SERVICE FOR ALL SECONDARY CONDUIT ROUTES AND POLE INSTALLATION LOCATIONS.
2. SWAB ALL CONDUITS PRIOR TO INSTALLING CONDUCTORS.
3. FOR ALL 3-PHASE SERVICES, CHECK OWNER'S ELECTRICAL ROTATION PRIOR TO INSTALLATION. COORDINATE ACCESS WITH PROJECT MANAGER.
4. COORDINATE SERVICE CUTOVERS WITH PSE AND PROJECT MANAGER.
5. PROVIDE AND INSTALL NEW SUPPORTS PER NEC ON OWNER'S WEATHERHEADS, AS NEEDED, AND INSTALL ALL PROPERTIES GROUNDING AT SERVICE.
6. PROVIDE TYPE II H10 RATED HANDHOLE ON OWNER'S PROPERTY AS NEEDED TO AVOID EXCEEDING NEC CONDUIT BEND RESTRICTIONS.
7. RESTORE DISTURBED PRIVATE PROPERTY TO PREVIOUS OR BETTER CONDITION.
8. INSPECTOR SHALL APPROVE CONTRACTOR'S UNDERGROUND SERVICE ROUTE.

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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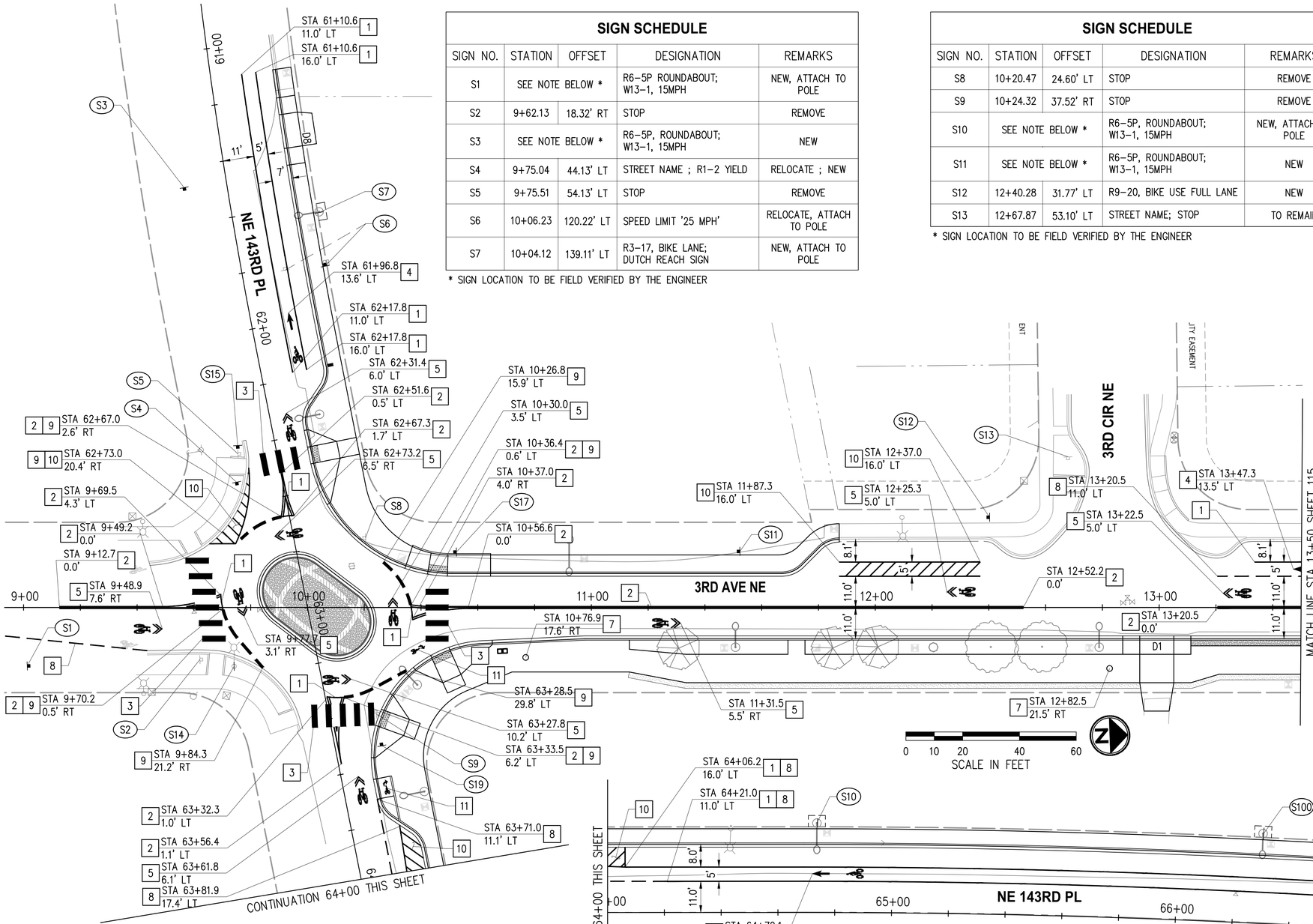
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

JOINT UTILITY TRENCH DETAILS

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SIGN SCHEDULE				
SIGN NO.	STATION	OFFSET	DESIGNATION	REMARKS
S1	SEE NOTE BELOW *		R6-5P ROUNDABOUT; W13-1, 15MPH	NEW, ATTACH TO POLE
S2	9+62.13	18.32' RT	STOP	REMOVE
S3	SEE NOTE BELOW *		R6-5P, ROUNDABOUT; W13-1, 15MPH	NEW
S4	9+75.04	44.13' LT	STREET NAME ; R1-2 YIELD	RELOCATE ; NEW
S5	9+75.51	54.13' LT	STOP	REMOVE
S6	10+06.23	120.22' LT	SPEED LIMIT '25 MPH'	RELOCATE, ATTACH TO POLE
S7	10+04.12	139.11' LT	R3-17, BIKE LANE; DUTCH REACH SIGN	NEW, ATTACH TO POLE

* SIGN LOCATION TO BE FIELD VERIFIED BY THE ENGINEER

SIGN SCHEDULE				
SIGN NO.	STATION	OFFSET	DESIGNATION	REMARKS
S8	10+20.47	24.60' LT	STOP	REMOVE
S9	10+24.32	37.52' RT	STOP	REMOVE
S10	SEE NOTE BELOW *		R6-5P, ROUNDABOUT; W13-1, 15MPH	NEW, ATTACH TO POLE
S11	SEE NOTE BELOW *		R6-5P, ROUNDABOUT; W13-1, 15MPH	NEW
S12	12+40.28	31.77' LT	R9-20, BIKE USE FULL LANE	NEW
S13	12+67.87	53.10' LT	STREET NAME; STOP	TO REMAIN

* SIGN LOCATION TO BE FIELD VERIFIED BY THE ENGINEER

SIGN SCHEDULE				
SIGN NO.	STATION	OFFSET	DESIGNATION	REMARKS
S100	66+29.66	31.71' LT	R3-17, BIKE LANE; DUTCH REACH SIGN	NEW, ATTACH TO POLE

CHANNELIZATION & SIGNING NOTES

1. REMOVE ALL EXISTING CONFLICTING CHANNELIZATION.
2. ALL PAVEMENT MARKING MATERIAL SHALL CONFORM TO THE "STATE OF WASHINGTON ROAD STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION", LATEST EDITION, UNLESS OTHERWISE MODIFIED IN THE SPECIAL PROVISIONS.
3. ALL STREET SIGNS NOTED FOR RELOCATION SHALL BE INSTALLED WITH NEW POSTS AND POST BASE.
4. STREET SIGNS SHALL BE INSTALLED PER COD STANDARD DRAWING NUMBER 3-050-016 AND 3-050-017.

CHANNELIZATION NOTES

1. PLASTIC LINE, 4" WHITE EDGE LINE.
2. PLASTIC LINE, 4" YELLOW DOUBLE CENTERLINE PER WSDOT STANDARD PLAN M-20.10-04.
3. PLASTIC CROSSWALK LINE, 24" WHITE.
4. PLASTIC BICYCLE LANE SYMBOL PER WDSOT STANDARD PLAN M-9.50-02.
5. PLASTIC SHARED LANE SYMBOL PER MUTCD FIGURE 9C-9.
7. SHARED USE PATH MARKING PER URBAN DESIGN PLANS AND DETAILS.
8. PLASTIC 4" WHITE DOTTED EXTENSION LINE PER WSDOT STANDARD PLAN M-20.10-04.
9. PLASTIC 12" WHITE WIDE DOTTED ENTRY LINE PER WSDOT STANDARD PLAN M-20.10-04.
10. PLASTIC 4" YELLOW CROSSHATCH AT 3' SPACING O.C.
11. PLASTIC BICYCLE TURN SYMBOL PER DETAIL SHEET 114.

LEGEND

- EXISTING SIGN
- PROPOSED SIGN

SIGN SCHEDULE				
SIGN NO.	STATION	OFFSET	DESIGNATION	REMARKS
S14	9+74.18	20.72' RT	R1-2, YIELD; W11-2 PED XING	NEW
S15	62+39.27	13.01' RT	W11-2 PED XING	NEW
S17	10+52.47	19.54' LT	R1-2, YIELD; W11-2 PED XING	NEW
S19	63+52.86	16.24' LT	R1-2, YIELD; W11-2 PED XING	NEW

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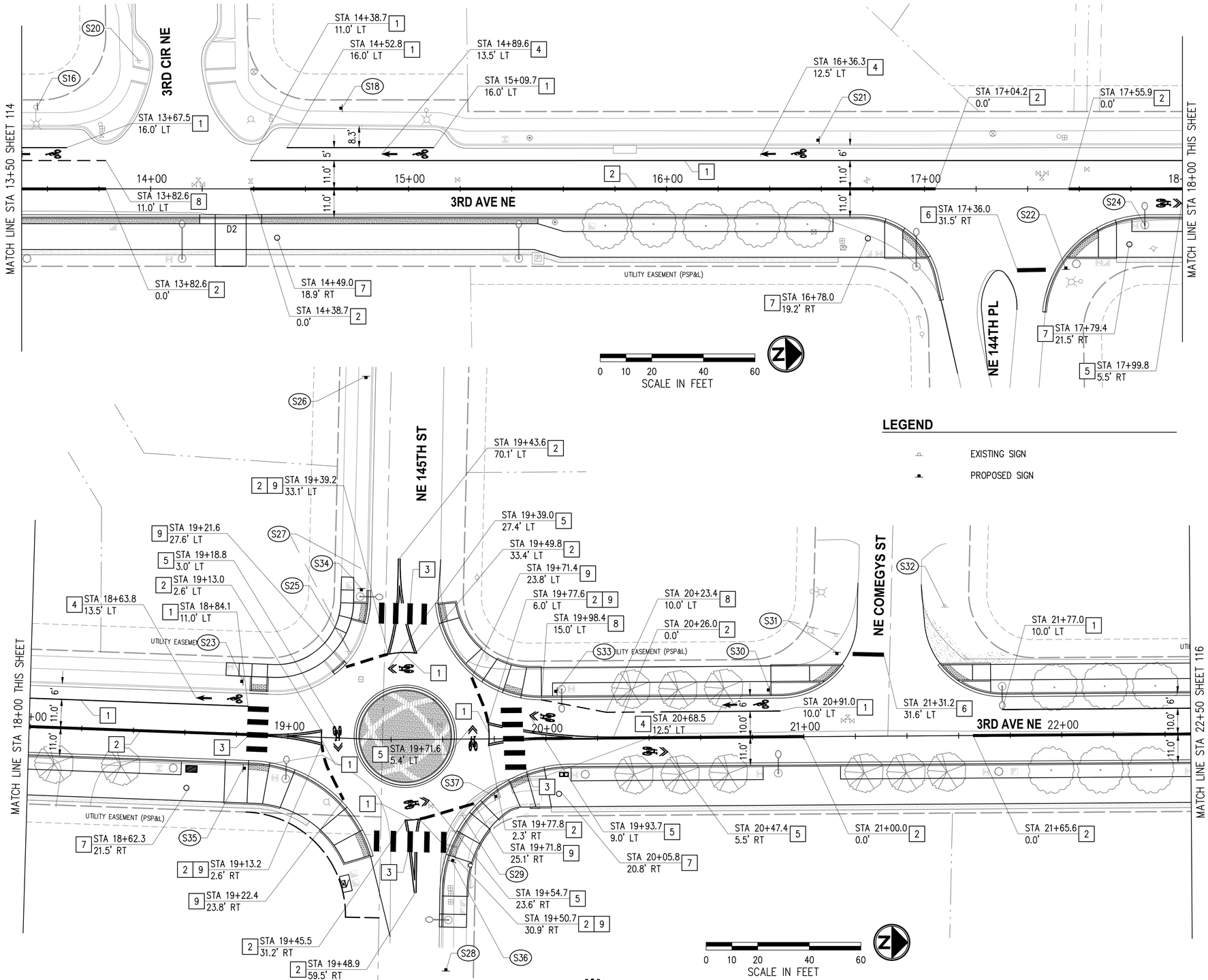
City of Duvall
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CHANNELIZATION & SIGNING PLAN
STA 9+25 TO STA 13+50 AND
STA 61+00 TO STA 68+00

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LEGEND

- EXISTING SIGN
- PROPOSED SIGN

CHANNELIZATION & SIGNING NOTES

1. SEE SHEET 117

CHANNELIZATION NOTES

1. PLASTIC LINE, 4" WHITE EDGE LINE.
2. PLASTIC LINE, 4" YELLOW DOUBLE CENTERLINE PER WSDOT STANDARD PLAN M-20.10-04.
3. PLASTIC CROSSWALK LINE, 24" WHITE.
4. PLASTIC BICYCLE LANE SYMBOL PER WDSOT STANDARD PLAN M-9.50-02.
5. PLASTIC SHARED LANE SYMBOL PER MUTCD FIGURE 9C-9.
6. PLASTIC STOP LINE, 24" WHITE.
7. SHARED USE PATH MARKING PER URBAN DESIGN PLANS AND DETAILS.
8. PLASTIC 4" WHITE DOTTED EXTENSION LINE PER WSDOT STANDARD PLAN M-20.10-04.
9. PLASTIC 12" WHITE WIDE DOTTED ENTRY LINE PER WSDOT STANDARD PLAN M-20.10-04.

SIGN SCHEDULE

SIGN NO.	STATION	OFFSET	DESIGNATION	REMARKS
S16	13+56.15	31.86' LT	DUTCH REACH SIGN	NEW, ATTACH TO POLE
S18	14+74.26	31.29' LT	DUTCH REACH SIGN	NEW
S20	13+95.42	49.86' LT	STREET NAME; STOP	TO REMAIN
S21	16+59.21	18.88' LT	R3-17, BIKE LANE	NEW
S22	17+54.82	31.20' RT	STOP	TO REMAIN
S23	18+81.81	20.53' LT	R3-17, BIKE LANE	NEW
S24	SEE NOTE BELOW *		R6-5P, ROUNDABOUT; W13-1, 15MPH	NEW, ATTACH TO POLE
S25	19+22.57	33.66' LT	"CROSS TRAFFIC DOES NOT STOP"; STOP	REMOVE
S26	SEE NOTE BELOW *		R6-5P, ROUNDABOUT; W13-1, 15MPH	NEW
S27	19+25.98	65.95' LT	STREET NAME	RELOCATE, ATTACH TO POLE
S28	SEE NOTE BELOW *		R6-5P, ROUNDABOUT; W13-1, 15MPH	NEW
S29	19+67.37	29.59' RT	"CROSS TRAFFIC DOES NOT STOP"; STOP	REMOVE
S30	SEE NOTE BELOW *		R6-5P, ROUNDABOUT; W13-1, 15MPH	NEW
S31	21+13.05	32.63' LT	STREET NAME; STOP	RELOCATE
S32	21+55.05	49.82' LT	"NOT A THROUGH STREET"; "NEIGHBORHOOD WATCH"	TO REMAIN

* SIGN LOCATION TO BE FIELD VERIFIED BY THE ENGINEER

SIGN SCHEDULE

SIGN NO.	STATION	OFFSET	DESIGNATION	REMARKS
S33	20+04.44	18.27' LT	R1-2, YIELD; W11-2 PED XING	NEW
S34	64+22.43	920.04' LT	R1-2, YIELD; W11-2 PED XING	NEW
S35	18+83.05	13.06' RT	R1-2, YIELD; W11-2 PED XING	NEW
S36	65+18.67	938.64' LT	R1-2, YIELD; W11-2 PED XING	NEW
S37	65+01.17	958.56' LT	R1-2, YIELD; W11-2 PED XING	NEW

NO.	DATE	BY	APPR.	REVISIONS

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OLIVIA B. PARASCHIV STATE OF WASHINGTON 41380 REGISTERED PROFESSIONAL ENGINEER

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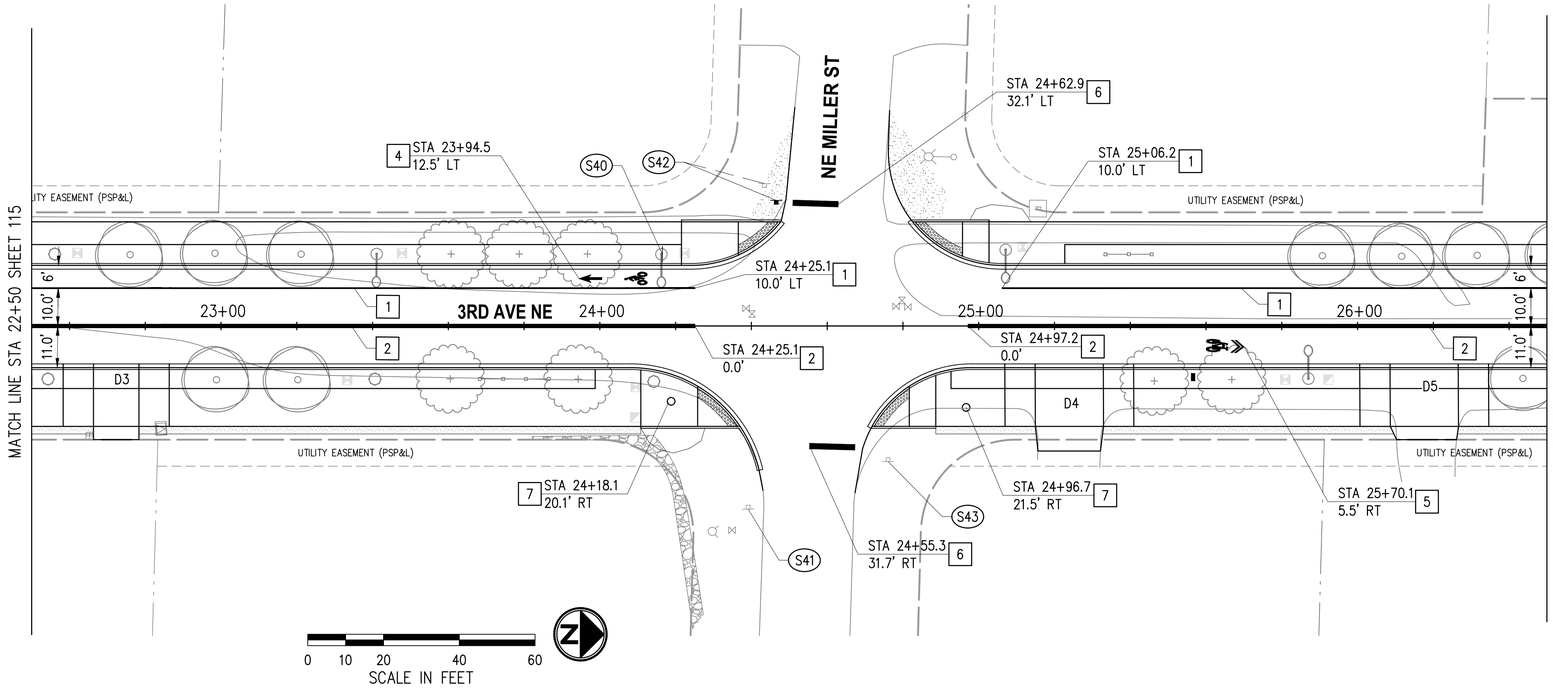
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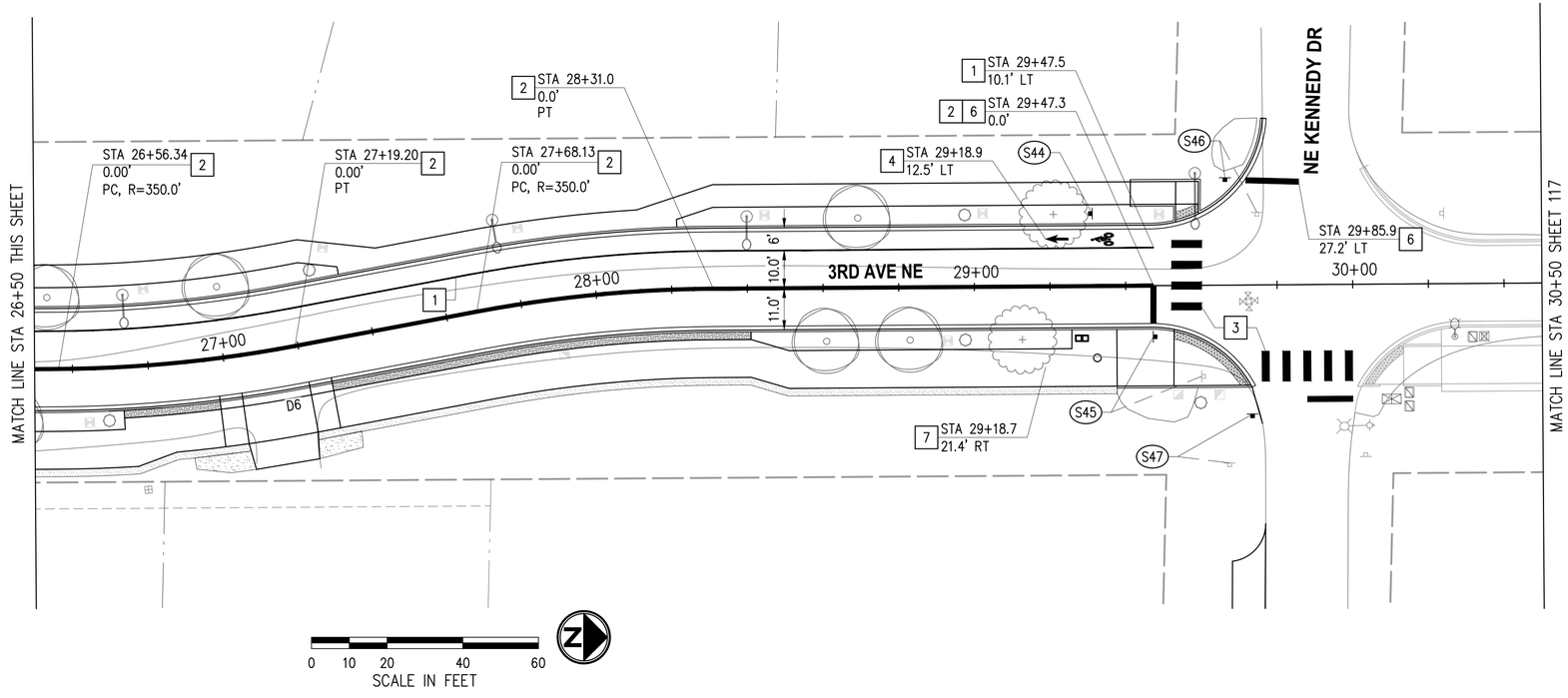
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CHANNELIZATION & SIGNING PLAN
STA 13+50 TO STA 22+50

KPG PROJECT No. 21078 | SHT 115 OF 119

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CHANNELIZATION & SIGNING NOTES

1. REMOVE ALL EXISTING CONFLICTING CHANNELIZATION.
2. ALL PAVEMENT MARKING MATERIAL SHALL CONFORM TO THE "STATE OF WASHINGTON ROAD STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION", LATEST EDITION, UNLESS OTHERWISE MODIFIED IN THE SPECIAL PROVISIONS.
3. ALL STREET SIGNS NOTED FOR RELOCATION SHALL BE INSTALLED WITH NEW POSTS AND POST BASE.
4. STREET SIGNS SHALL BE INSTALLED PER COD STANDARD DRAWING NUMBER 3-050-016 AND 3-050-017.

CHANNELIZATION NOTES

1 PLASTIC LINE, 4" WHITE EDGE LINE.

2 PLASTIC LINE, 4" YELLOW DOUBLE CENTERLINE PER WSDOT STANDARD PLAN M-20.10-04.

3 PLASTIC CROSSWALK LINE, 24" WHITE.

4 PLASTIC BICYCLE LANE SYMBOL PER WDSOT STANDARD PLAN M-9.50-02.

6 PLASTIC STOP LINE, 24" WHITE.

7 SHARED USE PATH MARKING PER URBAN DESIGN PLANS AND DETAILS.

LEGEND

EXISTING SIGN

PROPOSED SIGN

SIGN SCHEDULE

SIGN NO.	STATION	OFFSET	DESIGNATION	REMARKS
S40	24+16.49	18.93' LT	R3-17, BIKE LANE	NEW, ATTACH TO POLE
S41	24+39.13	48.30' RT	NO OUTLET	TO REMAIN
S42	24+46.58	33.14' LT	STOP	RELOCATE
S43	24+76.06	35.77' RT	STOP	TO REMAIN
S44	29+31.28	19.16' LT	R3-17, BIKE LANE	NEW
S45	29+47.20	13.50' RT	STOP	RELOCATE
S46	29+66.43	28.39' LT	STREET NAME; STOP	RELOCATE
S47	29+73.30	34.11' RT	"NOT A THROUGH STREET"	RELOCATE

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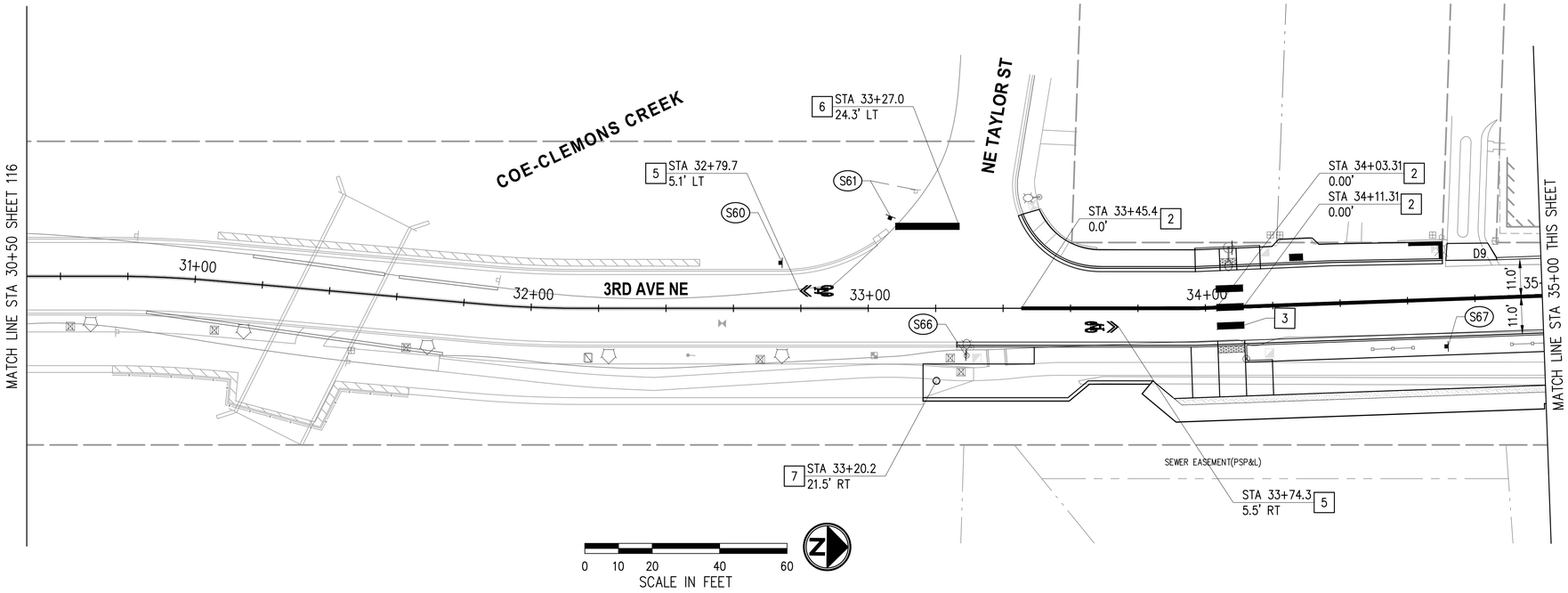
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

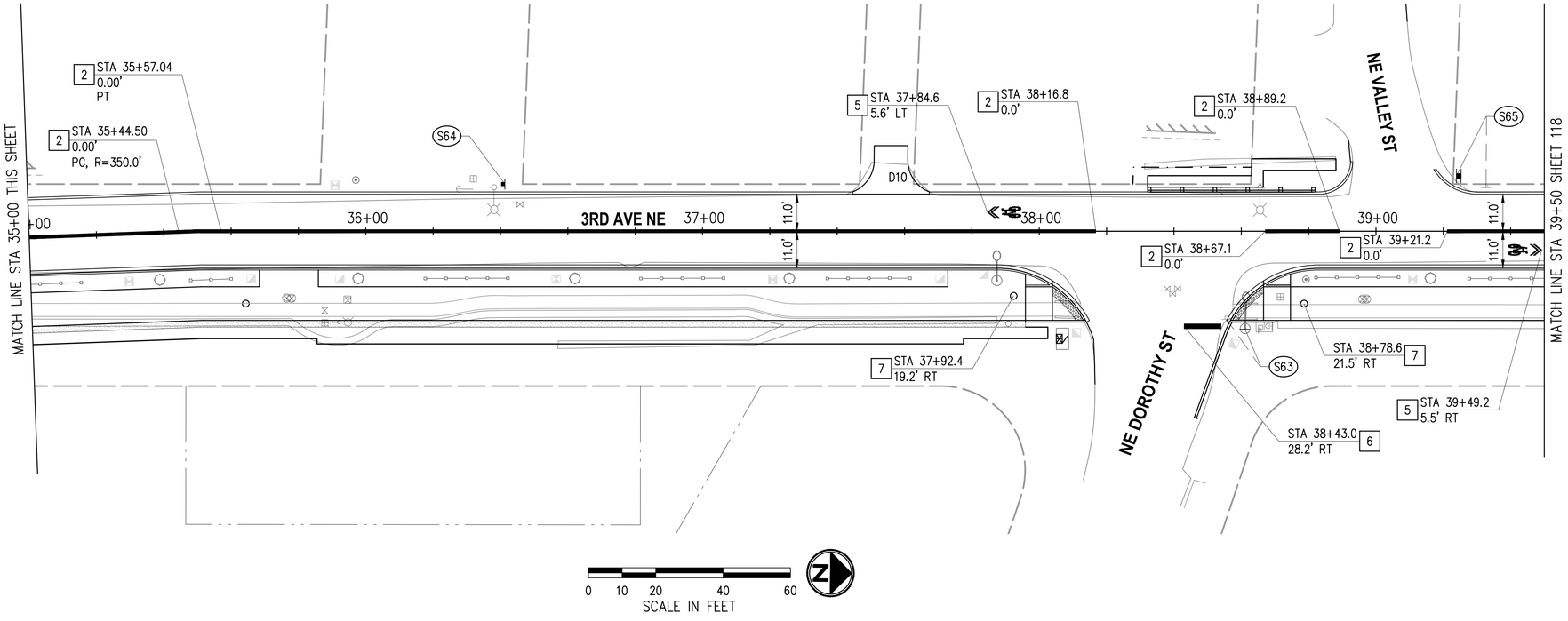
CHANNELIZATION & SIGNING PLAN
STA 22+50 TO STA 30+50

KPG PROJECT No. 21078

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CHANNELIZATION NOTES

2 PLASTIC LINE, 4" YELLOW DOUBLE CENTERLINE PER WSDOT STANDARD PLAN M-20.10-04.

3 PLASTIC CROSSWALK LINE, 24" WHITE.

5 PLASTIC SHARED LANE SYMBOL PER MUTCD FIGURE 9C-9.

6 PLASTIC STOP LINE, 24" WHITE.

7 SHARED USE PATH MARKING PER URBAN DESIGN PLANS AND DETAILS.

LEGEND

EXISTING SIGN

PROPOSED SIGN

SIGN SCHEDULE

SIGN NO.	STATION	OFFSET	DESIGNATION	REMARKS
S60	32+74.46	13.49' LT	R9-20, BIKE USE FULL LANE	NEW
S61	33+06.63	27.25' LT	STREET NAME; STOP	RELOCATE
S63	38+61.16	29.18' RT	STREET NAME; STOP	RELOCATE, ATTACH TO POLE
S64	36+41.30	14.00' LT	R9-20, BIKE USE FULL LANE	NEW
S65	39+23.89	16.41' LT	STREET NAME; (2) R6-1 ONE WAY	RELOCATE, R6-1 POINTING WEST
S66	33+28.93	14.00' RT	W5-4A, PATH NARROWS	NEW
S67	34+71.57	13.94' RT	W5-4A, PATH NARROWS	NEW

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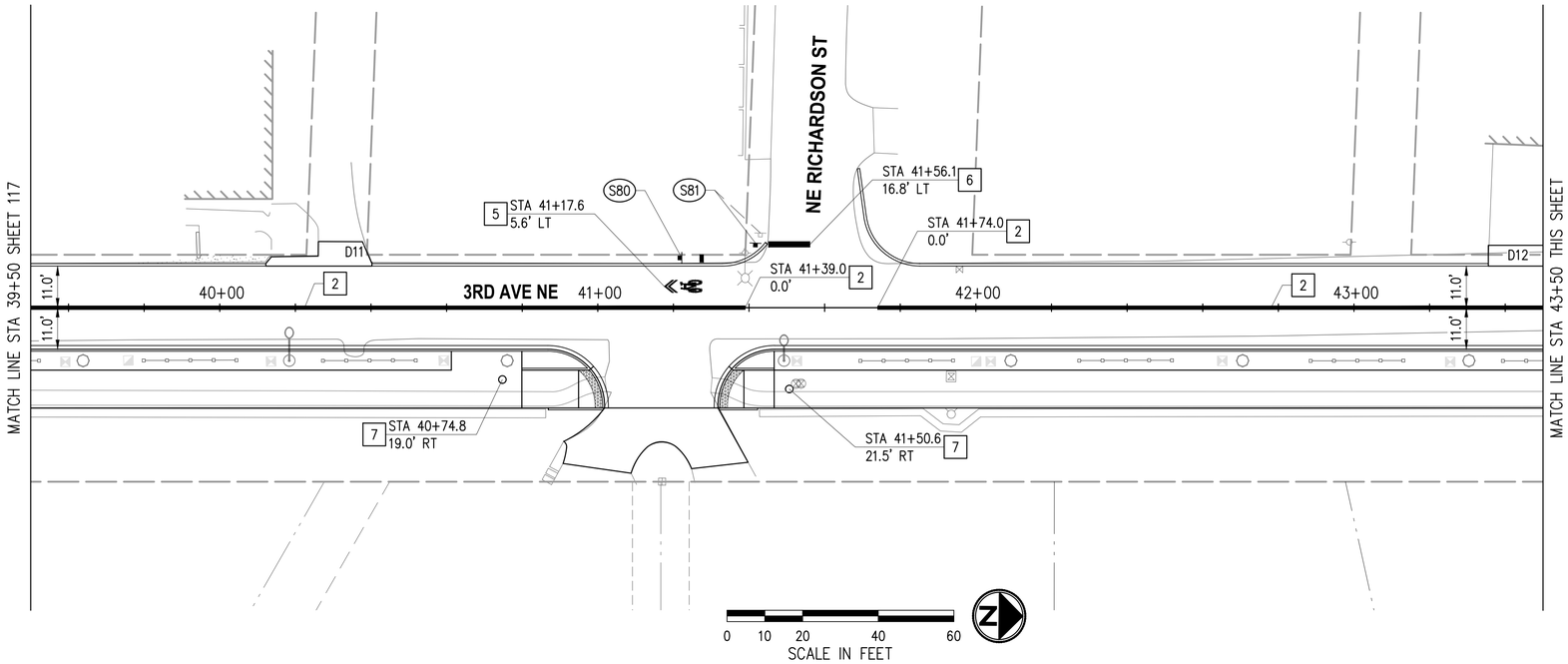
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CHANNELIZATION & SIGNING PLAN
STA 30+50+00 TO STA 39+50

KPG PROJECT No. 21078

SHT 117 OF 119

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CHANNELIZATION & SIGNING NOTES

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CHANNELIZATION NOTES

[2] PLASTIC LINE, 4" YELLOW DOUBLE CENTERLINE PER WSDOT STANDARD PLAN M-20.10-04.

[5] PLASTIC SHARED LANE SYMBOL PER MUTCD FIGURE 9C-9.

[6] PLASTIC STOP LINE, 24" WHITE.

[7] SHARED USE PATH MARKING PER URBAN DESIGN PLANS AND DETAILS.

LEGEND

EXISTING SIGN

PROPOSED SIGN

SIGN SCHEDULE

SIGN NO.	STATION	OFFSET	DESIGNATION	REMARKS
S80	41+22.21	13.16' LT	R9-20, BIKE USE FULL LANE	NEW
S81	41+41.70	17.06' LT	STREET NAME; STOP	RELOCATE
S82	43+91.32	14.02' RT	R4-16 MOD, SHARED USE PATH ENDS	NEW
S83	44+26.94	18.68' LT	STOP	RELOCATE
S84	44+50.88	30.64' RT	STREET NAME; STOP	RELOCATE
S85	44+86.71	19.50' RT	R9-20, BIKE USE FULL LANE	NEW
S86	45+80.00	16.59' LT	'25 MPH'; "SNOW ROUTE"	TO REMAIN
S87	46+04.59	14.96' LT	R9-20, BIKE USE FULL LANE	NEW, ATTACH TO POLE
S88	46+30.19	24.64' RT	STREET NAME; STOP	TO REMAIN
S89	46+92.69	82.58' LT	D11-1 & M6-1P	NEW, ATTACH TO EXISTING POLE, POINTING SOUTH
S90	46+72.32	83.19' RT	D11-1 & M6-1P	NEW, POINTING SOUTH

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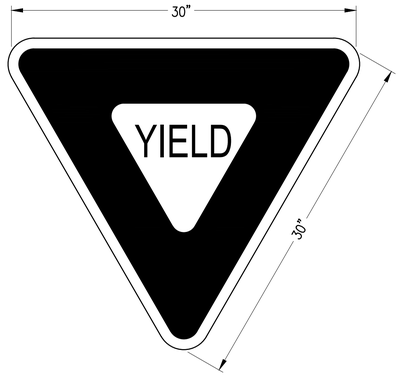
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CHANNELIZATION & SIGNING PLAN
STA 39+50 TO STA 47+21

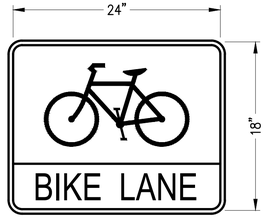
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R1-2 YIELD
NTS



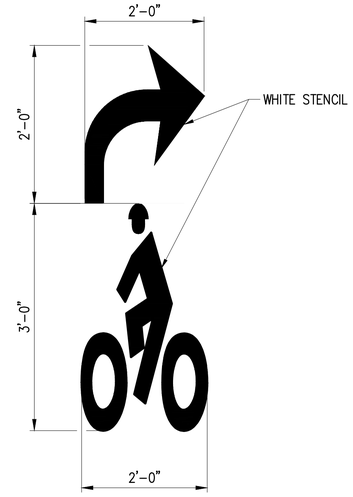
R3-17 BIKE LANE
NTS



R9-20 SHARED LANE
NTS



R6-5P ROUNDABOUT
NTS

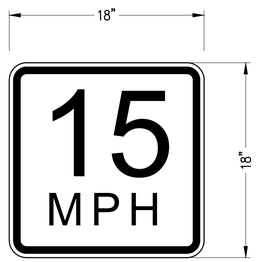


PLASTIC BIKE TURN SYMBOL
NTS





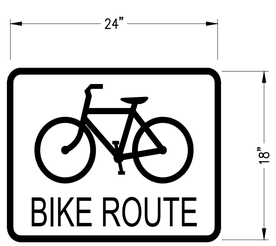
W11-2 PED CROSSING
NTS



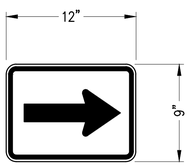
W13-1 ADVISORY SPEED
NTS



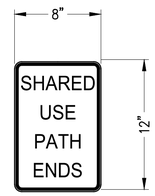
DUTCH REACH SIGN
NTS



D11-1 BIKE ROUTE
NTS



M6-1P BICYCLE ROUTE ARROW SIGN
NTS



R4-16 MOD MOVEMENT RESTRICTION
NTS

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