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CITY OF KIRKLAND



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CIP NO. CNM-0081

CKC TO RCC REGIONAL CONNECTOR

WILLOWS RD NE

VOLUME 1
JOB NO. 02-20-PW

JANUARY 2020

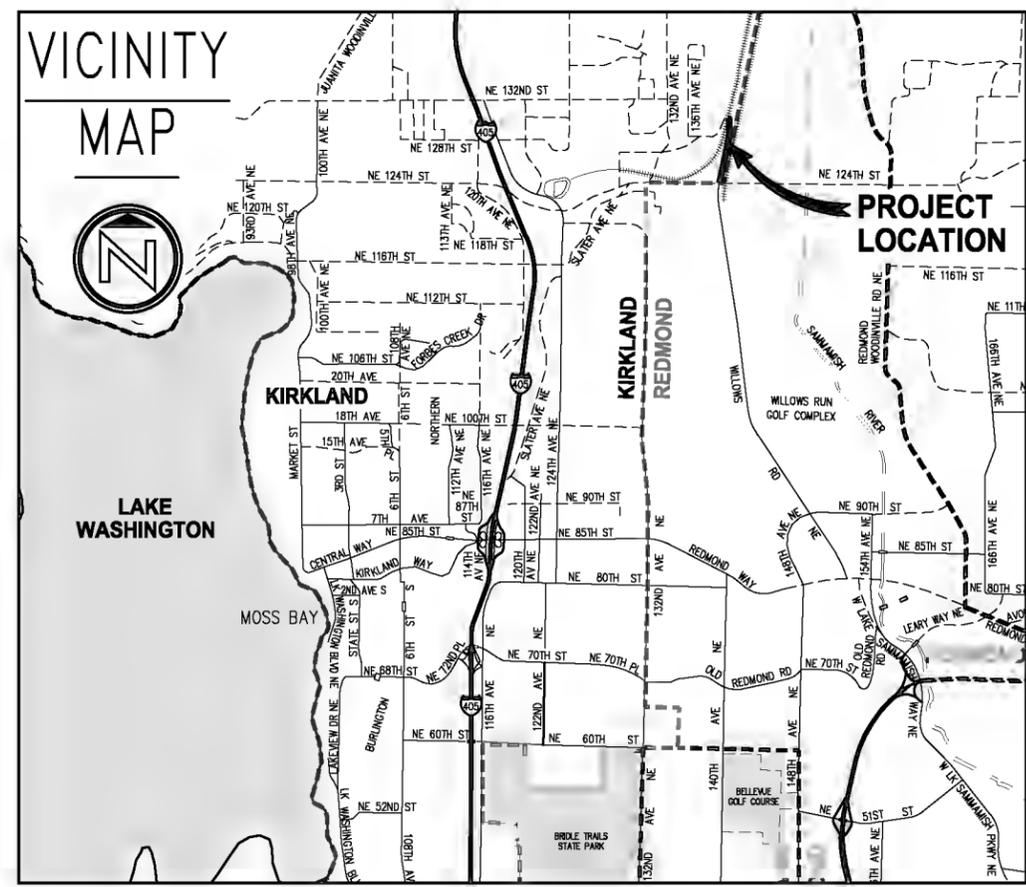


CITY OFFICIALS

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JAY ARNOLD	DEPUTY MAYOR
NEAL BLACK	COUNCIL MEMBER
KELLI CURTIS	COUNCIL MEMBER
AMY FALCONE	COUNCIL MEMBER
TOBY NIXON	COUNCIL MEMBER
JON PASCAL	COUNCIL MEMBER
KURT TRIPLETT	CITY MANAGER
JULIE UNDERWOOD	INTERIM PUBLIC WORKS DIRECTOR
ROD STEITZER	CAPITAL PROJECTS MANAGER

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INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LEGEND & ABBREVIATIONS
3	ALIGNMENT & SURVEY CONTROL PLAN
4	TYPICAL SECTIONS
5-6	TYPICAL DETAILS
7-9	SITE PREPARATION & TESC PLANS
10-14	STORM DRAIN PLAN & PROFILE
15	DETENTION VAULT DETAILS
16-20	ROADWAY PLAN & PROFILES
21-22	INTERSECTION PLAN
23-25	DRIVEWAY PLAN & PROFILES
26-37	WALL PLAN & PROFILES
38-42	ILLUMINATION & SIGNALIZATION PLANS
43	ILLUMINATION DETAILS
44-47	LANDSCAPE PLANS
48-50	CHANNELIZATION & SIGNING PLANS
51-53	EXISTING CONDITIONS & POTHOLE PLANS
ATTACHMENT	VOLUME 2: STAIRS AT PARCEL #2726059069

EXISTING LEGEND

	MONUMENT IN CASE		TELEPHONE MANHOLE
	SURFACE MONUMENT		TELEPHONE RISER
	PK NAIL		TELEPHONE VAULT LID
	REBAR & CAP		TELEPHONE POLE
	SPOT SHOT (DESCRIBED)		TV MANHOLE
	CATCH BASIN		TV RISER
	STORM DRAIN MANHOLE		TV VAULT LID
	YARD DRAIN		FIBER OPTIC MANHOLE
	DOWNSPOUT		FIBER OPTIC VAULT LID
	STORM DRAIN CLEAN-OUT		GAS VALVE
	CULVERT		GAS METER
	SEWER MANHOLE		GAS MANHOLE
	SEWER CLEAN-OUT		WATER VALVE
	POWER POLE		WATER METER
	POWER POLE W/UNDERGROUND CONNECT		WATER MANHOLE
	POWER POLE WITH LUMINAIRE		WATER VAULT LID
	POWER POLE WITH LUMINAIRE & UG CONNECT		FIRE HYDRANT
	POWER MANHOLE		BLOW-OFF
	POWER RISER		FIRE DEPARTMENT CONNECT
	POWER VAULT LID		POST INDICATOR VALVE
	POWER TRANSFORMER		HOSE BIB
	POWER METER		IRRIGATION CONTROL VALVE
	POWER OUTLET		UTILITY MANHOLE (GENERIC/UNKNOWN)
	HIGH VOLTAGE POWER POLE		UTILITY VAULT LID (GENERIC/UNKNOWN)
	HIGH VOLTAGE POWER POLE W/UG CONNECT		UTILITY CLEAN-OUT (GENERIC/UNKNOWN)
	GUY POLE		UTILITY RISER (GENERIC/UNKNOWN)
	GUY ANCHOR		STAND-PIPE (GENERIC/UNKNOWN)
	TRAFFIC SIGNAL		UTILITY ACCESS (GENERIC/UNKNOWN)
	TRAFFIC SIGNAL WITH LUMINAIRE		BORE SITE (WITH FIELD DESCRIPTION)
	PEDESTRIAN SIGNAL		MONITORING WELL
	JUNCTION BOX TYPE 1 & 2		GUARD POST
	TRAFFIC CONTROL CABINET		BOULDER
	BACKUP POWER SUPPLY		SIGN
	INTERCONNECT CABINET		MAILBOX (# OF BOXES)
	ELECTRICAL SERVICE CABINET		SHRUB
	TRAFFIC ATTENUATOR LOOP		STUMP, DIAMETER
	ROADWAY LUMINAIRE		SNAG, DIAMETER (# OF TRUNKS)
	LOT LIGHT		DECIDUOUS TREE, DIAMETER (# OF TRUNKS)
	YARD LIGHT		CONIFEROUS TREE, DIAMETER (# OF TRUNKS)
	RAILROAD CROSSING ARM		
	RAILROAD CROSSING SIGNAL		

PROPOSED LEGEND

	REMOVE CURB & GUTTER OR EXTRUDED CURB
	REMOVE EXISTING PIPE
	FULL DEPTH SAWCUT
	CLEARING & GRUBBING LIMITS
	HIGH VISIBILITY SILT FENCE
	CHAIN LINK FENCE
	APPROXIMATE FILL CATCH LINE
	CURB & GUTTER
	EXTRUDED CURB
	BLOCK WALL
	SOLDIER PILE WALL
	CONDUIT
	STORM DRAIN LINE
	INLET PROTECTION
	REMOVE CONIFEROUS / DECIDUOUS TREE
	CATCH BASIN TYPE 1
	CATCH BASIN TYPE 2
	DIRECTIONAL FLOW ARROW
	JUNCTION BOX TYPE 1 & 2
	PEDESTRIAN PUSH BUTTON & POLE
	LUMINAIRE & JUNCTION BOX
	ROADWAY (COBRA STYLE) LUMINAIRE
	TYPE PPB SIGNAL POLE
	SIGN
	REMOVE CEMENT CONCRETE
	REMOVE ASPHALT CONCRETE
	PLANTER STRIP
	ASPHALT ROADWAY
	2" GRIND & ASPHALT OVERLAY
	ASPHALT PATH
	ASPHALT DRIVEWAY, 2" COMMERCIAL HMA OVER 2" CSTC
	CEMENT CONCRETE SHOULDER/WALL CAP
	CEMENT CONCRETE SIDEWALK OVER 4" CSTC
	CEMENT CONCRETE DRIVEWAY ENTRANCE
	2" CRUSHED SURFACING TOP COURSE (CSTC)
	CEMENT CONCRETE CURB RAMP
	DETECTABLE WARNING SURFACE

ABBREVIATIONS

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

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LEGEND & ABBREVIATIONS

KPG PROJECT No. 17132 SHT 2 OF 53

CONTROL POINT LIST				
PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
2	SCRIBE	262328.20	1315290.66	42.80'
3	SPIKE	263115.44	1315363.03	59.72'
7°	SPIKE	263371.07	1314096.77	174.41'
100	SPIKE	263608.52	1315358.03	77.65'
101	SPIKE	263972.71	1315418.26	95.40'
102	SPIKE	264146.29	1315363.08	117.37'
103	SPIKE	264015.63	1315193.33	129.99'
104	PK	263635.21	1315049.59	140.08'
105	SPIKE	263629.28	1314727.14	172.33'
106°	SPIKE	263371.11	1314096.67	174.41'
200	HT	263849.49	1315158.51	131.07'
300	PK	263156.61	1315315.57	60.82'
305	HT	263463.26	1315388.14	72.77'
306	SPIKE	262670.44	1315291.16	50.11'
307	PK	263803.45	1315373.57	82.17'
1599	PK	263028.49	1315372.56	58.00'

* NOT SHOWN ON THIS SHEET

SURVEY NOTES

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE ONLY APPROXIMATIONS.

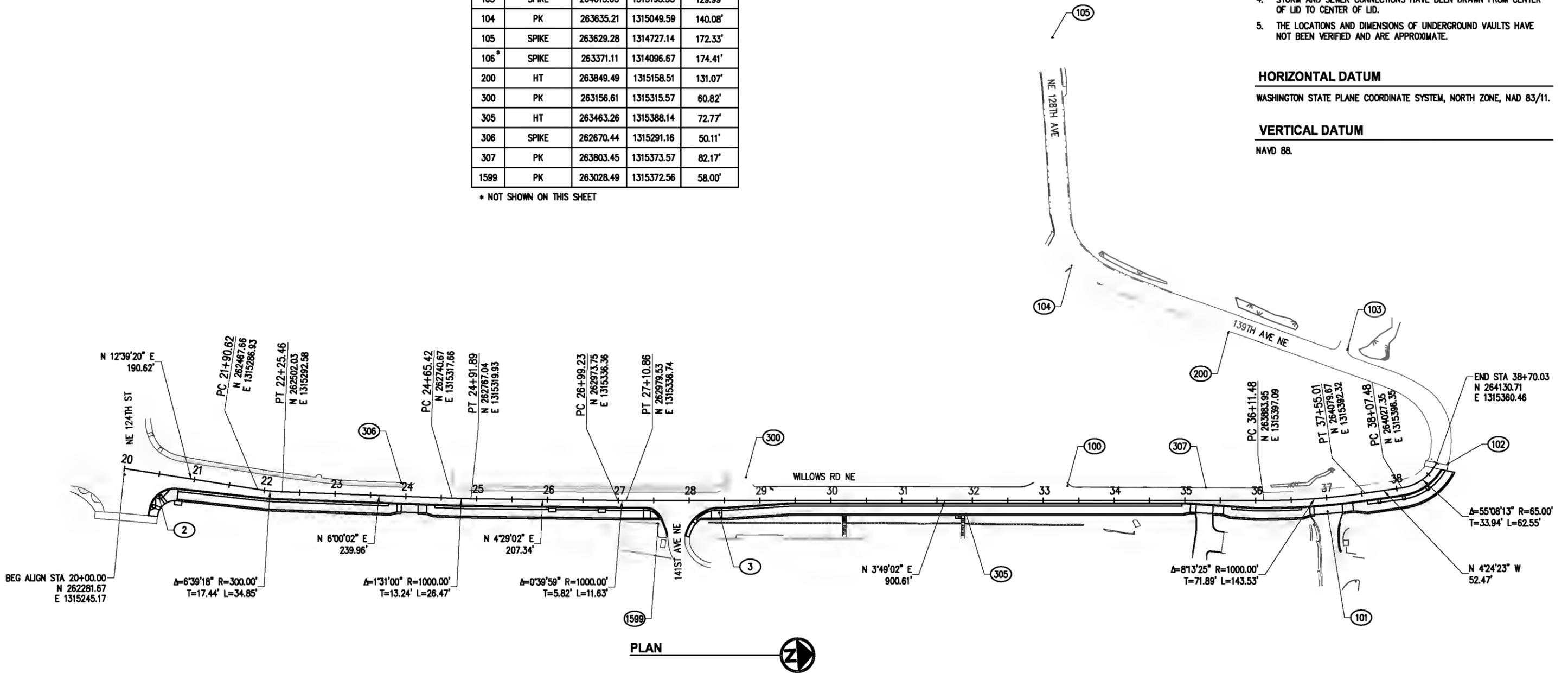
THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL LOCATOR SERVICES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION OR SUBSURFACE EXPLORATION. CALL 1-800-424-5555.
- FIELD SURVEY: KPG, JANUARY, 2019.
- CONTOUR INTERVAL = 1 FOOT.
- STORM AND SEWER CONNECTIONS HAVE BEEN DRAWN FROM CENTER OF LID TO CENTER OF LID.
- THE LOCATIONS AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/11.

VERTICAL DATUM

NAVD 88.



PLAN

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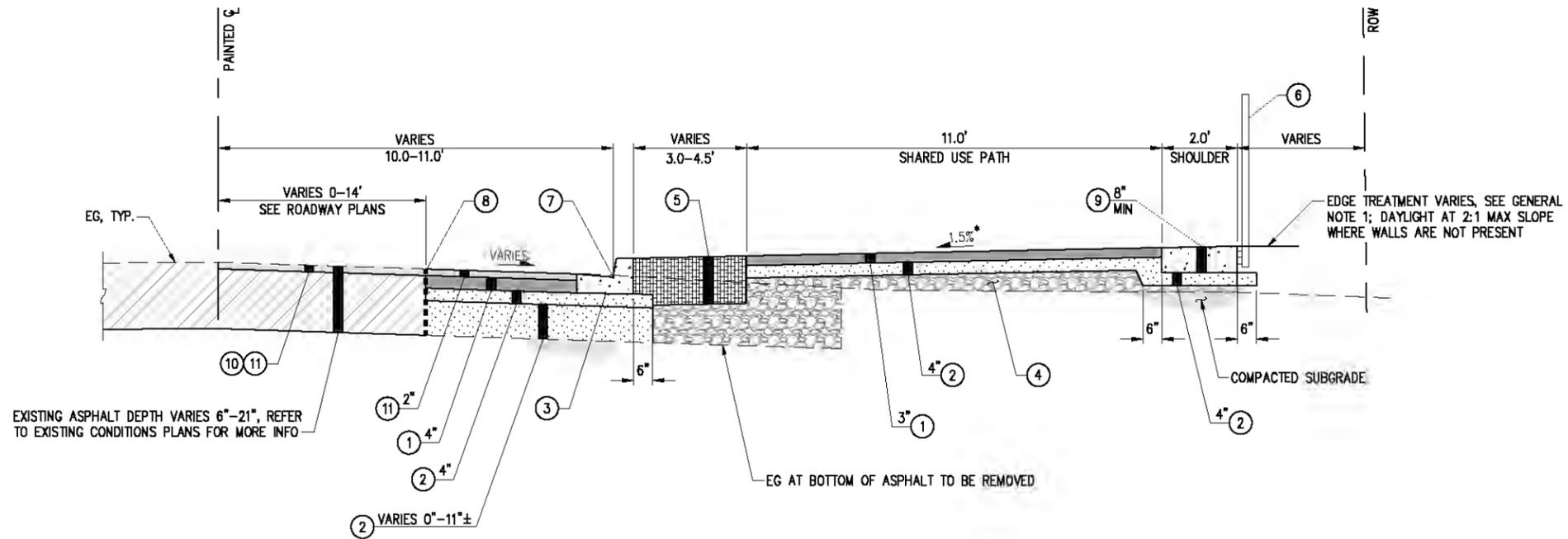
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ALIGNMENT & SURVEY CONTROL PLAN	
KPG PROJECT No. 17132	SHT 3 OF 53



* REVERSE SLOPE SHARED USE PATH AT 1.5% FROM STA 20+80 TO STA 23+88

TYPICAL SECTION A
NTS

SECTION GENERAL NOTES

1. SHARED USE PATH LAYOUT AND EDGE TREATMENT VARY, REFER TO ROADWAY SHEETS 16-20, WALL SHEETS 26-37, RESTORATION TABLE SHEET 6, AND LANDSCAPE PLAN SHEETS 44-47.
2. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS.

SECTION CONSTRUCTION NOTES

- 1 HMA CL 1/2" PG 58H-22
- 2 CRUSHED SURFACING TOP COURSE
- 3 CEMENT CONC. TRAFFIC CURB & GUTTER PER C.O.K. STD PLAN CK-R.17
- 4 GRAVEL BORROW FOR EMBANKMENT & WALL BACKFILL
- 5 PLANTER STRIP PER LANDSCAPE PLAN AND DETAIL SHEETS 44-47
- 6 COATED CHAIN LINK FENCE (4') PER C.O.K. STD PLAN CK-R.51A, LOCATIONS PER ROADWAY SHEETS 16-20; AT WALL LOCATIONS, SURFACE MOUNT TO CONCRETE WALL CAP PER DETAIL 2, SHEET 30
- 7 HORIZONTAL/VERTICAL CONTROL POINT, SEE ROADWAY SHEETS 16-20 AND INTERSECTION PLAN SHEET 21-22
- 8 SAWCUT LOCATION, PER SITE PREP PLAN SHEETS 7-9; EXISTING PAVEMENT DEPTH VARIES 6"-21", SEE SHEETS 51-53 FOR MORE INFO
- 9 CEMENT CONC. SHOULDER/WALL CAP; DEPTH AND FOUNDATION VARIES AT WALL LOCATIONS, SEE WALL SHEETS 26-37
- 10 2"± DEPTH GRIND
- 11 HMA CL 1/2" PG 58H-22 FOR OVERLAY

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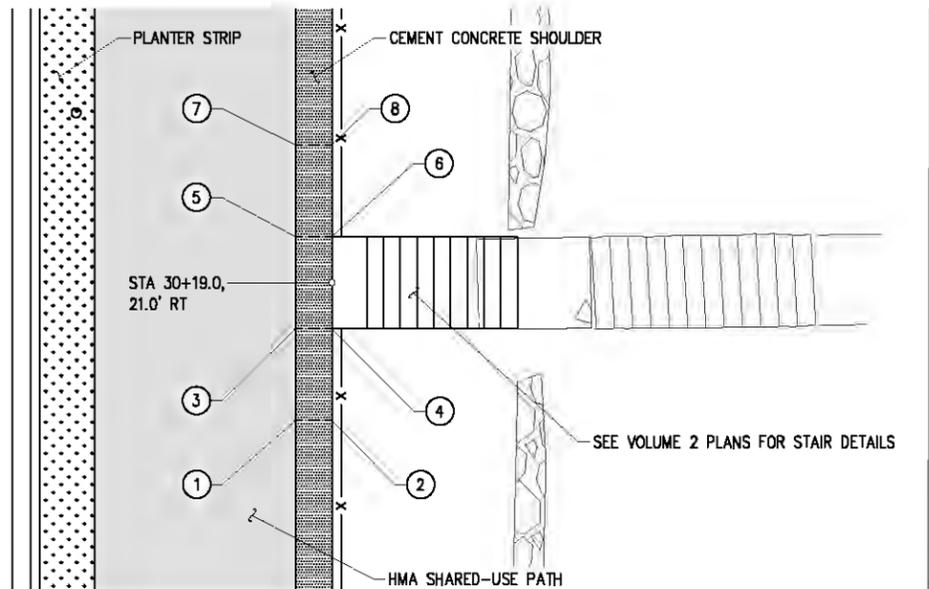
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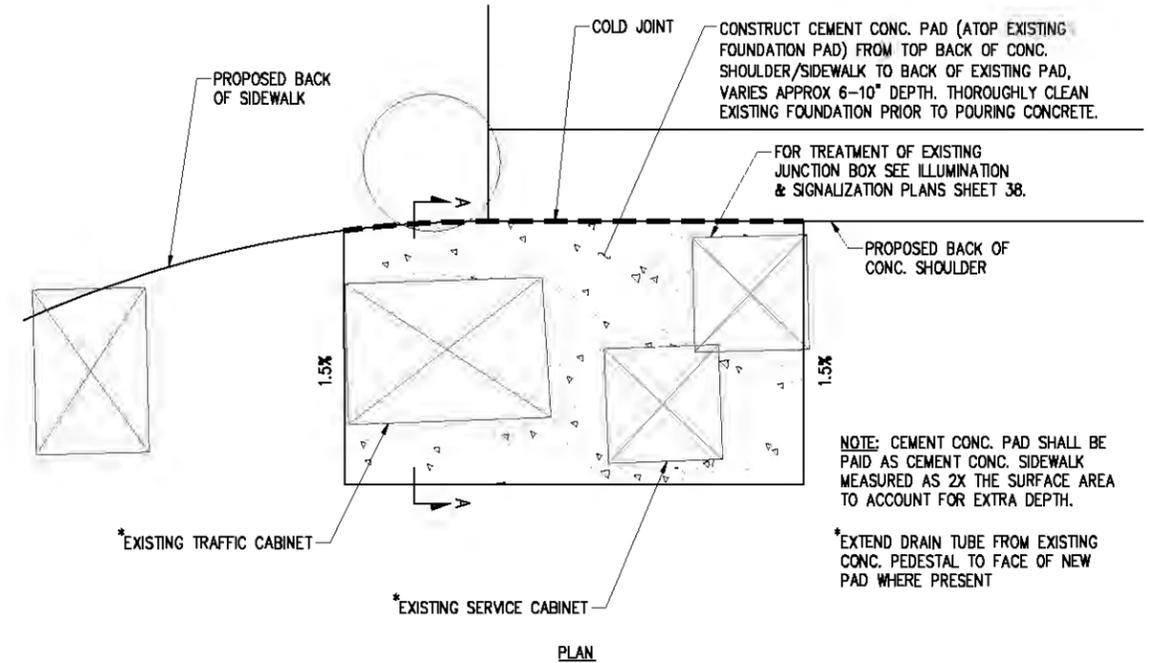
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TYPICAL SECTIONS
KPG PROJECT No. 17132 SHT 4 OF 53

POINT TABLE			
#	STATION	OFFSET	ELEV
1	30+11.5	19.0' R	65.30
2	30+11.5	21.0' R	65.33
3	30+16.5	19.0' R	65.52
4	30+16.5	21.0' R	65.60
5	30+21.5	19.0' R	65.75
6	30+21.5	21.0' R	65.66
7	30+26.5	19.0' R	65.98
8	30+26.5	21.0' R	66.01

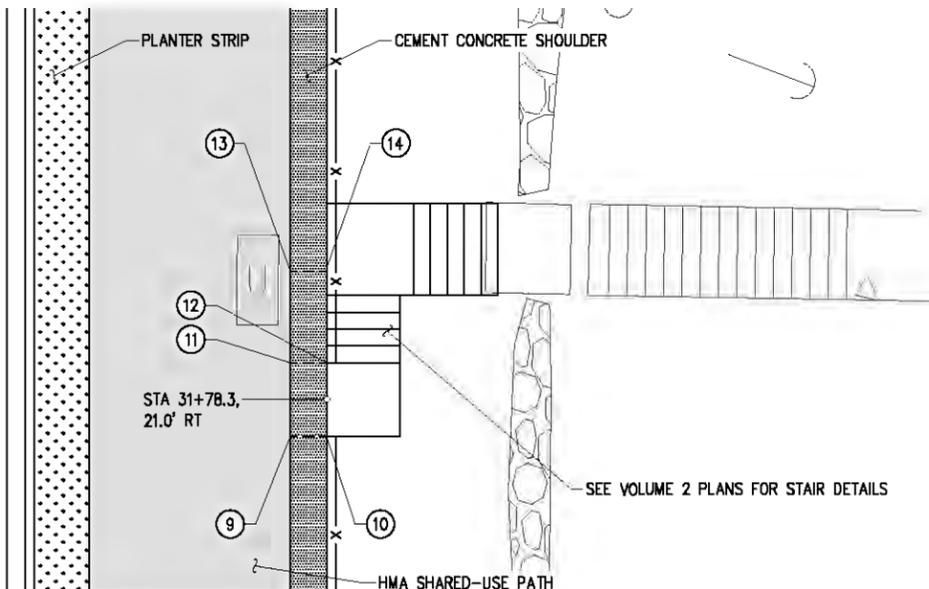


SHOULDER DETAIL 1
STA 30+19
NTS

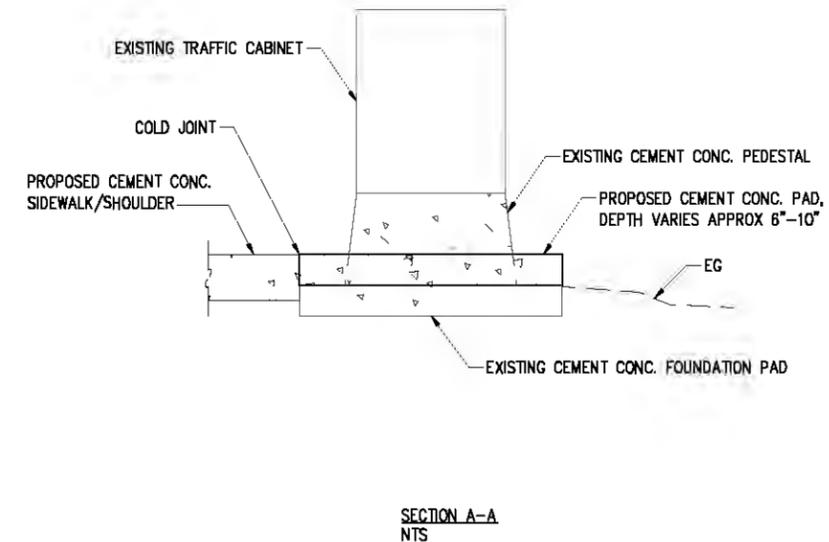


SIGNAL PAD DETAIL 3
STA 20+80
NTS

POINT TABLE			
#	STATION	OFFSET	ELEV
9	31+76.3	19.0' R	73.22
10	31+76.3	21.0' R	73.25
11	31+80.3	19.0' R	73.40
12	31+80.3	21.0' R	73.31
13	31+85.3	19.0' R	73.62
14	31+85.3	21.0' R	73.64



SHOULDER DETAIL 2
STA 31+79
NTS



SECTION A-A
NTS

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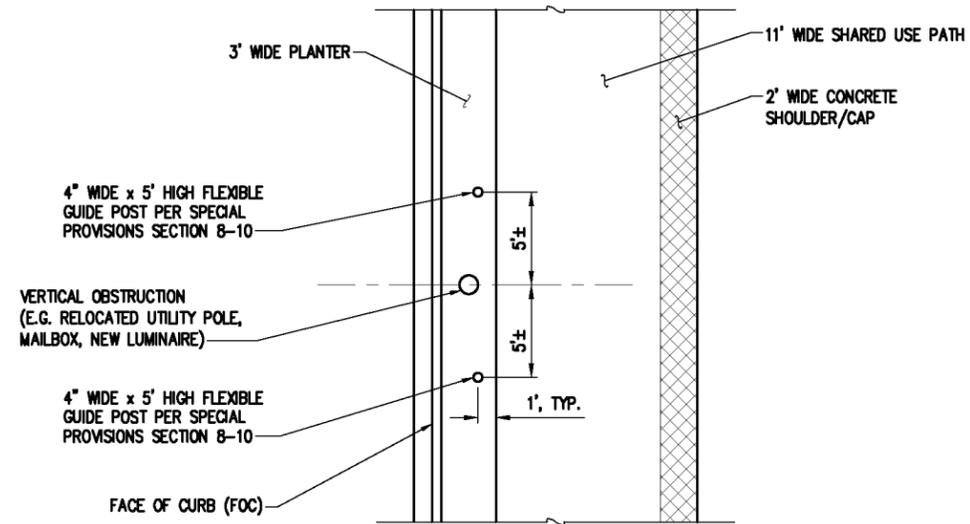
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TYPICAL DETAILS
KPG PROJECT No. 17132 SHT 5 OF 53

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FLEXIBLE GUIDE POSTS AT VERTICAL OBSTRUCTION DETAIL 1
NTS

RESTORATION TABLE	
EXISTING CONDITION	RESTORATION
UNIMPROVED AREA / SLOPE	SEEDING, FERTILIZING, AND MULCHING WITH MODERATE-TERM MULCH
LANDSCAPE AREAS	2" BARK MULCH OVER 4" TOPSOIL TYPE A
GRAVEL	2" CSTC

- NOTES:**
- RESTORATION SHOWN ON LANDSCAPE PLAN SHEETS 44-47 TAKES PRECEDENCE OVER THIS RESTORATION TABLE.
 - FINISH GRADE SHALL BE SMOOTH AND CONSISTENT WITH EXISTING GRADE.
 - SLOPES SHALL NOT EXCEED 2:1.
 - RESTORE TO CLEARING AND GRUBBING LIMITS AS SHOWN ON DEMOLITION PLAN SHEETS 7-9.
 - INCREASE DEPTH OF CSTC/TOPSOIL AS REQUIRED TO BRING FINISHED GRADE FLUSH WITH ADJACENT SURFACE AS SHOWN ON TYPICAL SECTIONS SHEET 4.

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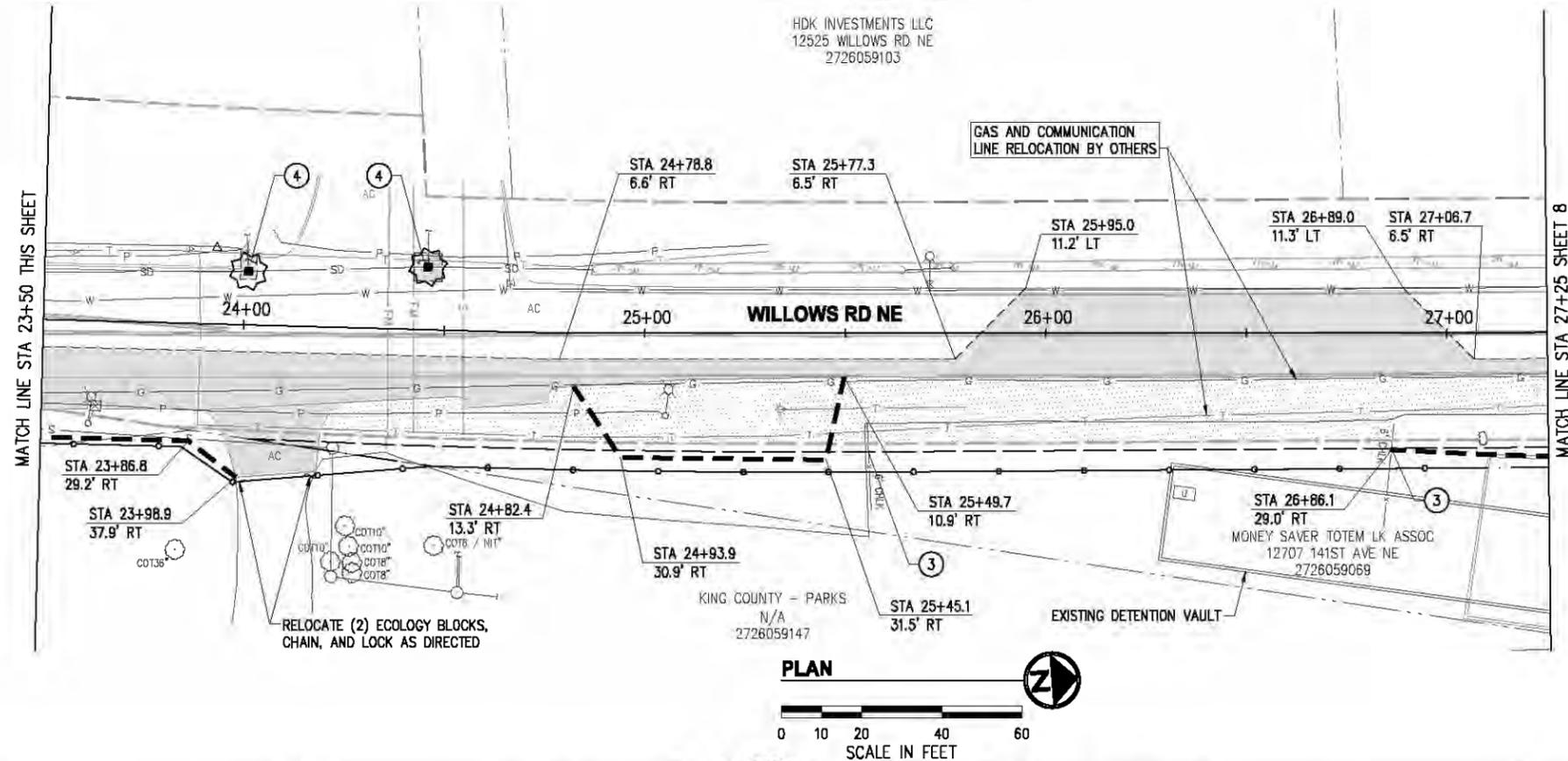
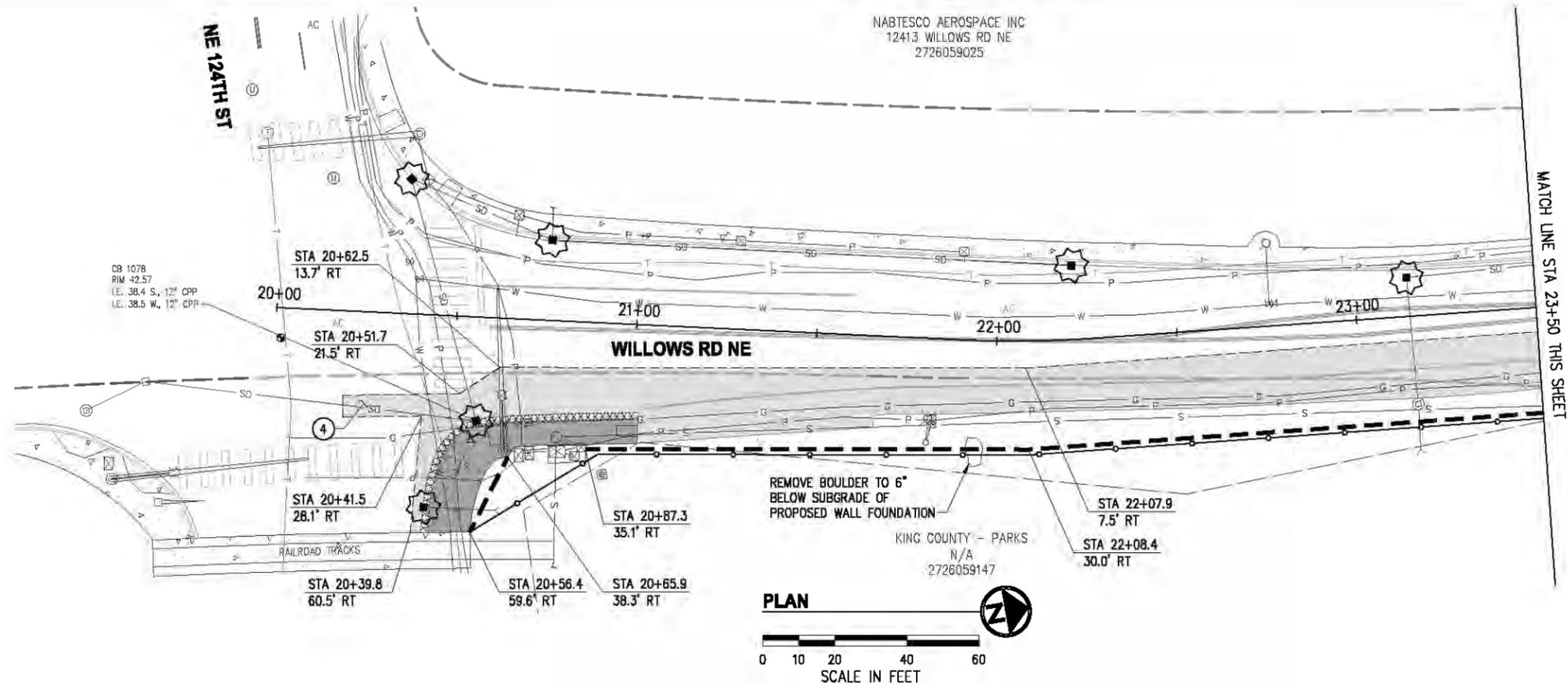
TYPICAL DETAILS

KPG PROJECT No. 17132 SHT 6 OF 53

- ### GENERAL NOTES
- PRESERVE AND PROTECT ALL UTILITIES, STRUCTURES, AND VEGETATION NOT CALLED OUT FOR REMOVAL.
 - FOR TREATMENT OF EXISTING ITEMS NOT NOTED IN THESE SITE PREP PLANS, REFER TO THE OTHER PLAN SUBSETS PROVIDED HEREIN.
 - ITEMS NOTED FOR REMOVAL ARE TO BE DEMOLISHED, HAULED, AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
 - MAINTAIN DRIVEWAY AND BUSINESS ACCESS AT ALL TIMES EXCEPT AS DEFINED IN THE SPECIAL PROVISIONS.
 - ASPHALT & CONCRETE REMOVAL AND CLEARING & GRUBBING LIMITS SHOWN ARE APPROXIMATE. LIMITS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY DEMOLITION/CLEARING ACTIVITIES.
 - ADJUST SAWCUT LINES AS NECESSARY TO AVOID UTILITIES.
 - SIDEWALK SHALL BE REMOVED TO NEAREST JOINT BEYOND LIMITS SHOWN UNLESS DIRECTED OTHERWISE.
 - EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

- ### CONSTRUCTION NOTES
- REMOVE RAILROAD TIES.
 - REMOVE GUARDRAIL.
 - RELOCATE END OF FENCE TO RIGHT OF WAY LINE.
 - SAWCUT & REMOVE PAVEMENT AND CURB (WHERE PRESENT) AS REQUIRED TO CONSTRUCT STORM & WATER IMPROVEMENTS, OR AS DIRECTED BY THE ENGINEER. SEE STORM SHEETS 10-14 & ROADWAY SHEETS 16-20 FOR ADDITIONAL DETAILS.

- ### LEGEND
- REMOVE CEMENT CONCRETE
 - REMOVE ASPHALT CONCRETE
 - REMOVE CURB & GUTTER OR EXTRUDED CURB
 - FULL DEPTH SAWCUT, LOCATIONS NOTED
 - CLEARING & GRUBBING LIMITS, LOCATIONS NOTED
 - HIGH VISIBILITY SILT FENCE PER C.O.K. STD PLAN CK-E.03
 - INLET PROTECTION PER C.O.K. STD PLAN CK-E.11
 - REMOVE CONIFEROUS / DECIDUOUS TREE



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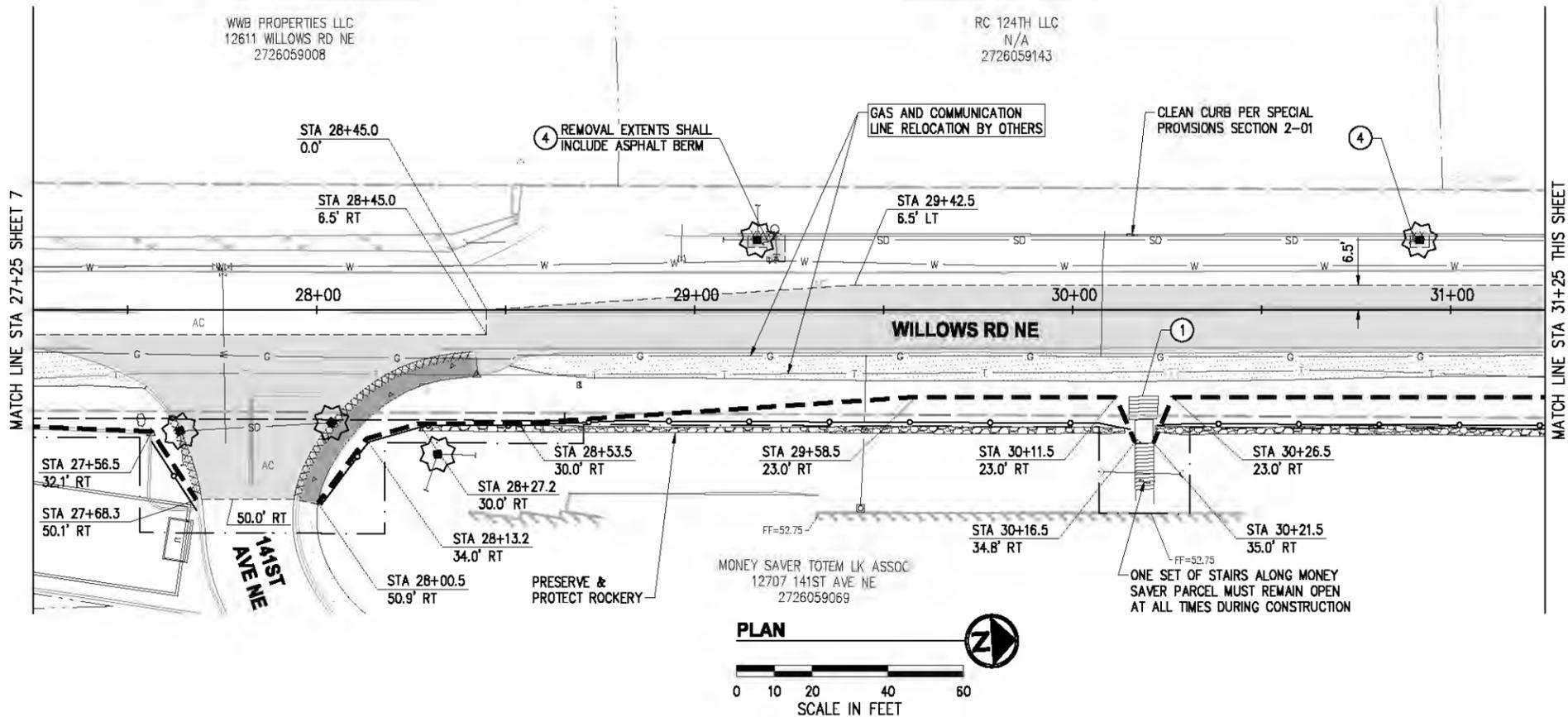
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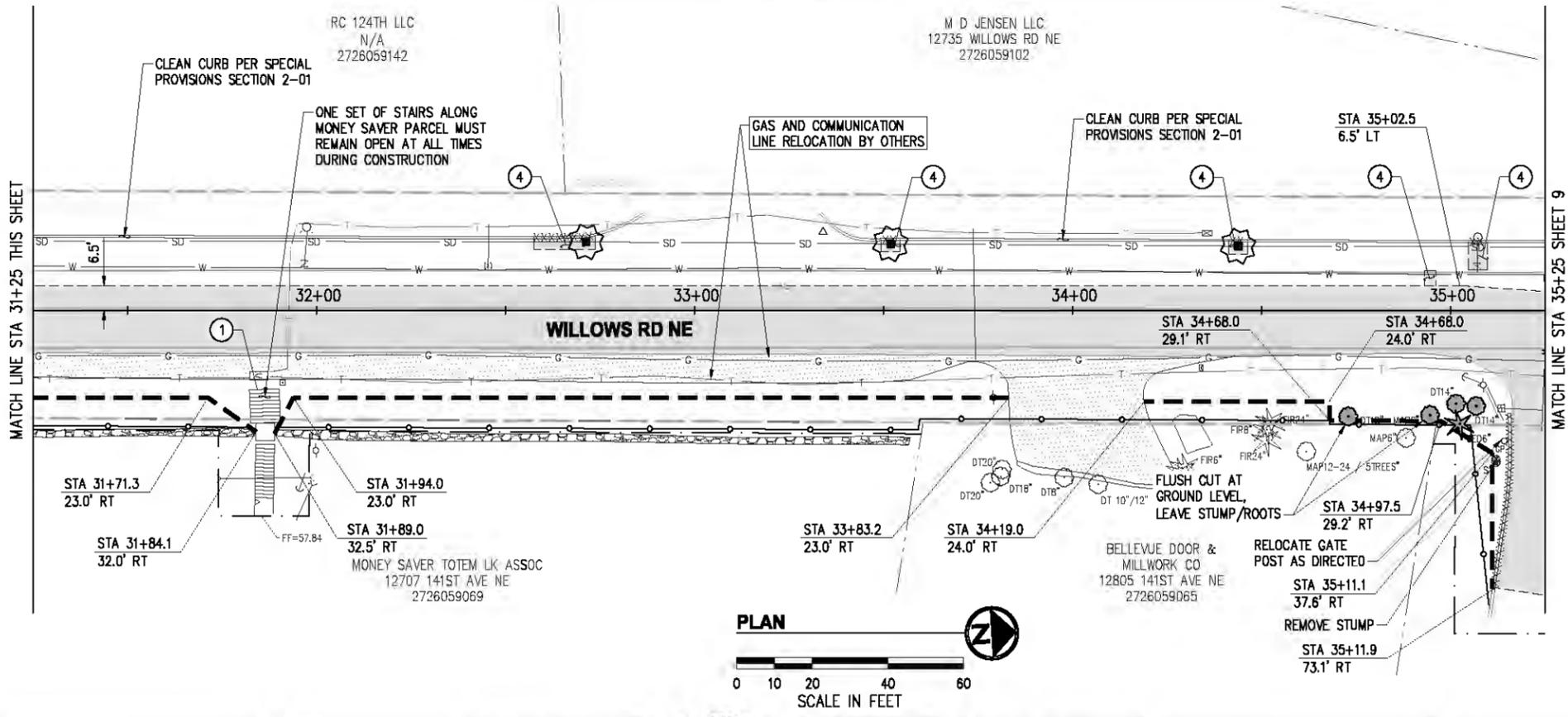
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SITE PREPARATION & TESC PLAN	
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STA 20+00 TO STA 27+25	
KPG PROJECT No. 17132	SHT 7 OF 53



- ### GENERAL NOTES
- PRESERVE AND PROTECT ALL UTILITIES, STRUCTURES, AND VEGETATION NOT CALLED OUT FOR REMOVAL.
 - FOR TREATMENT OF EXISTING ITEMS NOT NOTED IN THESE SITE PREP PLANS, REFER TO THE OTHER PLAN SUBSETS PROVIDED HEREIN.
 - ITEMS NOTED FOR REMOVAL ARE TO BE DEMOLISHED, HAULED, AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
 - MAINTAIN DRIVEWAY AND BUSINESS ACCESS AT ALL TIMES EXCEPT AS DEFINED IN THE SPECIAL PROVISIONS.
 - ASPHALT & CONCRETE REMOVAL AND CLEARING & GRUBBING LIMITS SHOWN ARE APPROXIMATE. LIMITS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY DEMOLITION/CLEARING ACTIVITIES.
 - ADJUST SAWCUT LINES AS NECESSARY TO AVOID UTILITIES.
 - SIDEWALK SHALL BE REMOVED TO NEAREST JOINT BEYOND LIMITS SHOWN UNLESS DIRECTED OTHERWISE.
 - EXISTING UTILITY LOCATIONS AND DEPTHS ARE BASED ON AS-BUILT RECORDS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION ACTIVITIES.

- ### CONSTRUCTION NOTES
- REMOVE RAILROAD TIES.
 - REMOVE GUARDRAIL.
 - RELOCATE END OF FENCE TO RIGHT OF WAY LINE.
 - SAWCUT & REMOVE PAVEMENT AND CURB (WHERE PRESENT) AS REQUIRED TO CONSTRUCT STORM & WATER IMPROVEMENTS, OR AS DIRECTED BY THE ENGINEER. SEE STORM SHEETS 10-14 & ROADWAY SHEETS 16-20 FOR ADDITIONAL DETAILS.



- ### LEGEND
- REMOVE CEMENT CONCRETE
 - REMOVE ASPHALT CONCRETE
 - XXXXXXXXXXXX REMOVE CURB & GUTTER OR EXTRUDED CURB
 - FULL DEPTH SAWCUT, LOCATIONS NOTED
 - - - - - CLEARING & GRUBBING LIMITS, LOCATIONS NOTED
 - HIGH VISIBILITY SILT FENCE PER C.O.K. STD PLAN CK-E.03
 - INLET PROTECTION PER C.O.K. STD PLAN CK-E.11
 - ★ / ○ REMOVE CONIFEROUS / DECIDUOUS TREE

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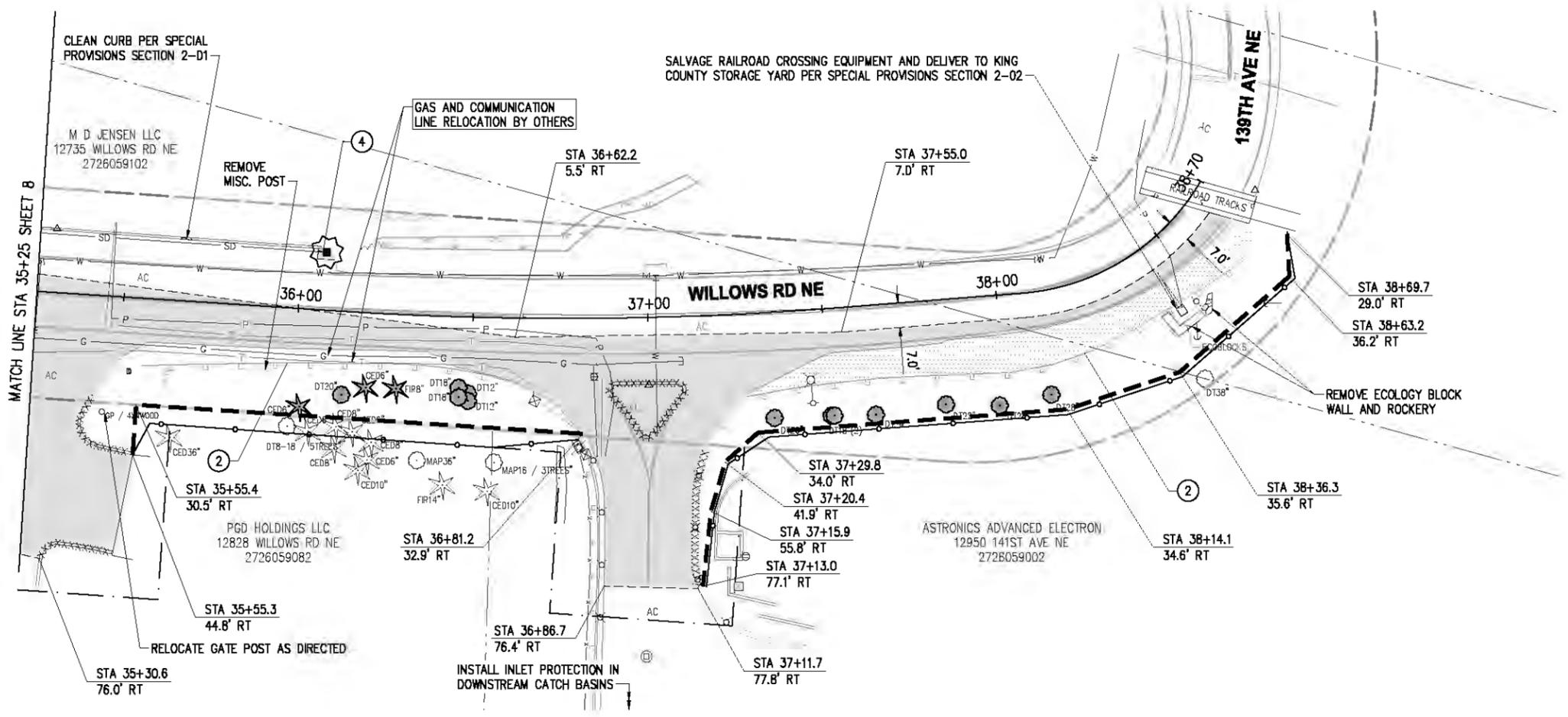
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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

SITE PREPARATION & TESC PLAN
WILLOWS RD NE
STA 27+25 TO STA 35+25
KPG PROJECT No. 17132 SHT 8 OF 53



- ### GENERAL NOTES
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 - REMOVE CONIFEROUS / DECIDUOUS TREE

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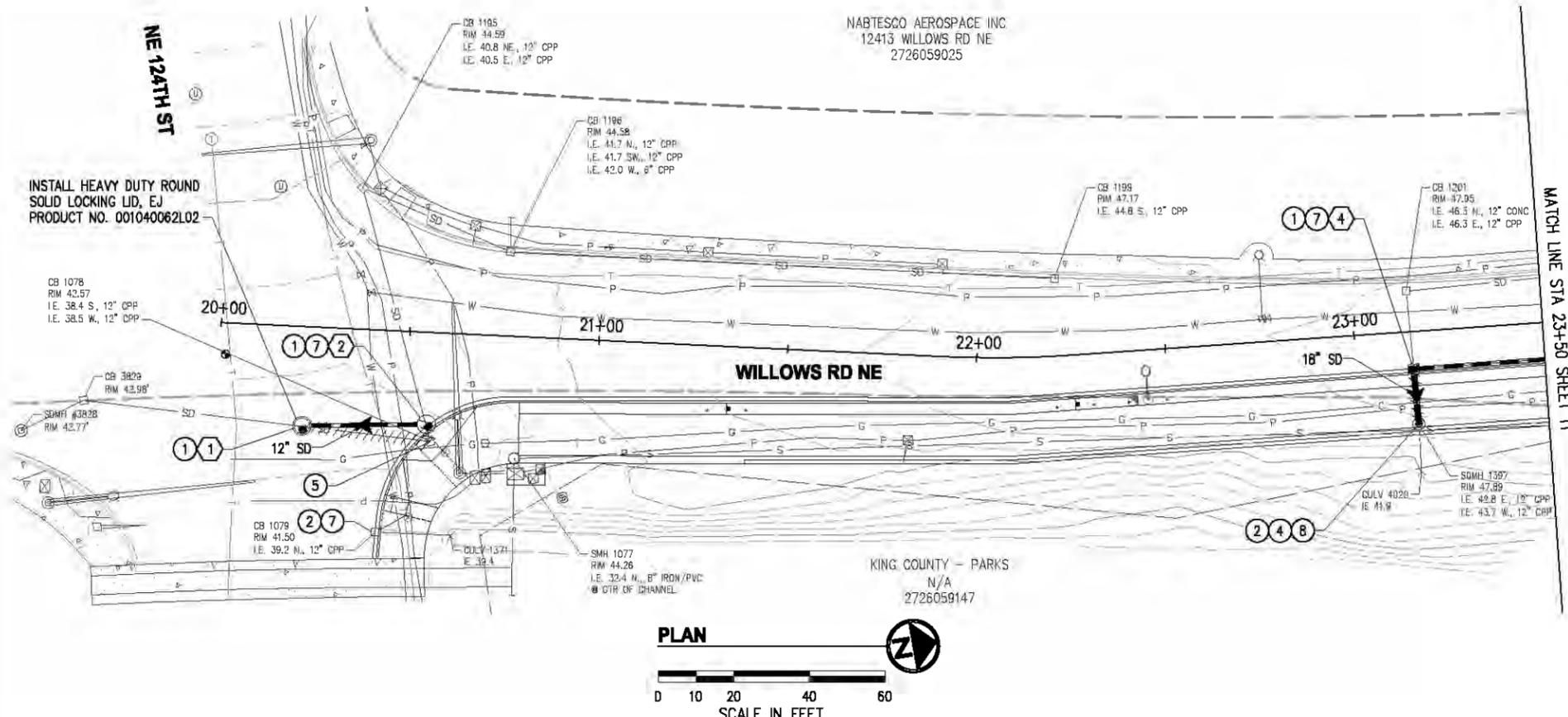
Seattle
Wenatchee
Bellevue

BID DOCUMENT
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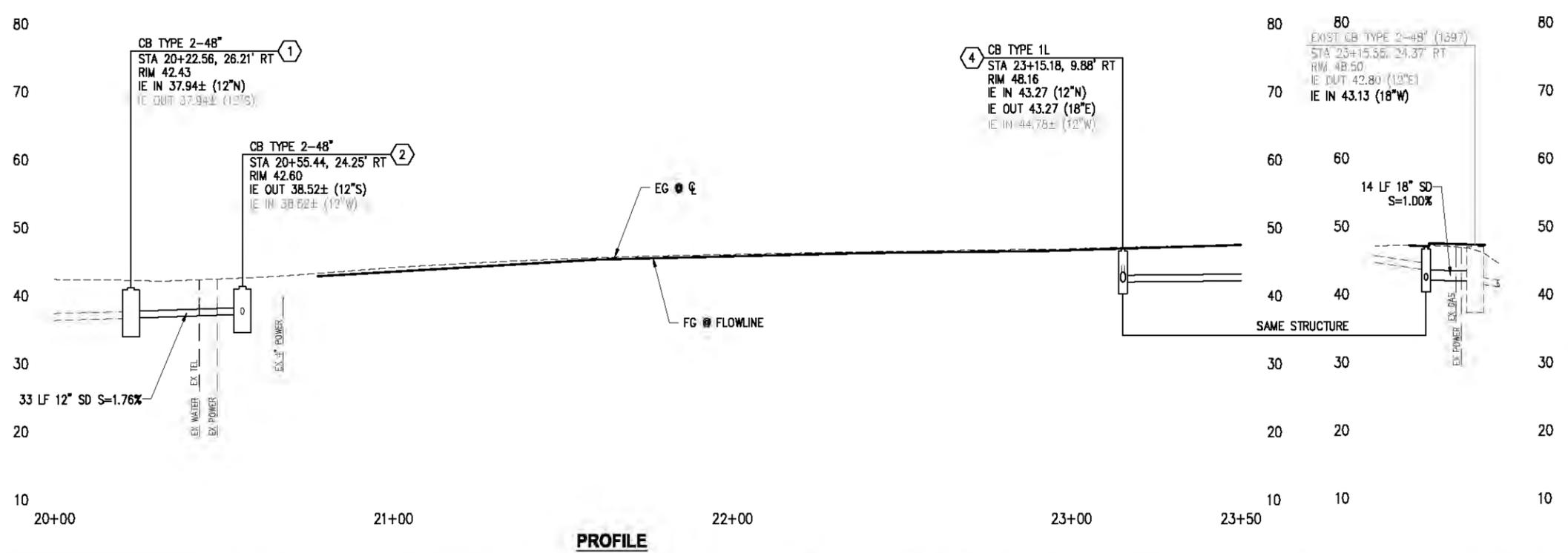
CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

SITE PREPARATION & TESC PLAN
WILLOWS RD NE
STA 35+25 TO STA 38+70
KPG PROJECT No. 17132 SHT 9 OF 53



- ### GENERAL NOTES
1. STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT THAT THE BEDDING AND BACKFILL MATERIAL SHALL BE CSBC.
 2. CATCH BASIN LOCATIONS AND RIM ELEVATIONS ARE APPROXIMATED FINISHED GRADE AT CENTER OF STRUCTURE. MATCH FINISHED GRADES AND FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
 3. STORM PIPES SHALL BE PVC SDR 35.
 4. ALL PENETRATIONS SHALL BE ACCOMPLISHED BY CORING UNLESS THE STRUCTURE HAS KNOCKOUTS OR AN EXISTING CORE DRILLED PENETRATION AT THE CORRECT INVERT ELEVATION.
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 3. INSTALL STORMWATER DETENTION VAULT PER DETAIL, SHEET 15.
 4. CONNECT NEW STORM DRAIN PIPE TO EXISTING STRUCTURE.
 5. REMOVE EXISTING DRAINAGE STRUCTURE.
 6. INSTALL OPEN CURB FACE FRAME AND GRATE PER C.O.K. STD PLANS CK-D.15 AND CK-D.16.
 7. INSTALL RECTANGULAR FRAME WITH VANED GRATE PER C.O.K. STD PLAN CK-D.14 & CK-D.16A.
 8. INSTALL ROUND SOLID LOCKING LID PER C.O.K. STD PLAN CK-D.18.

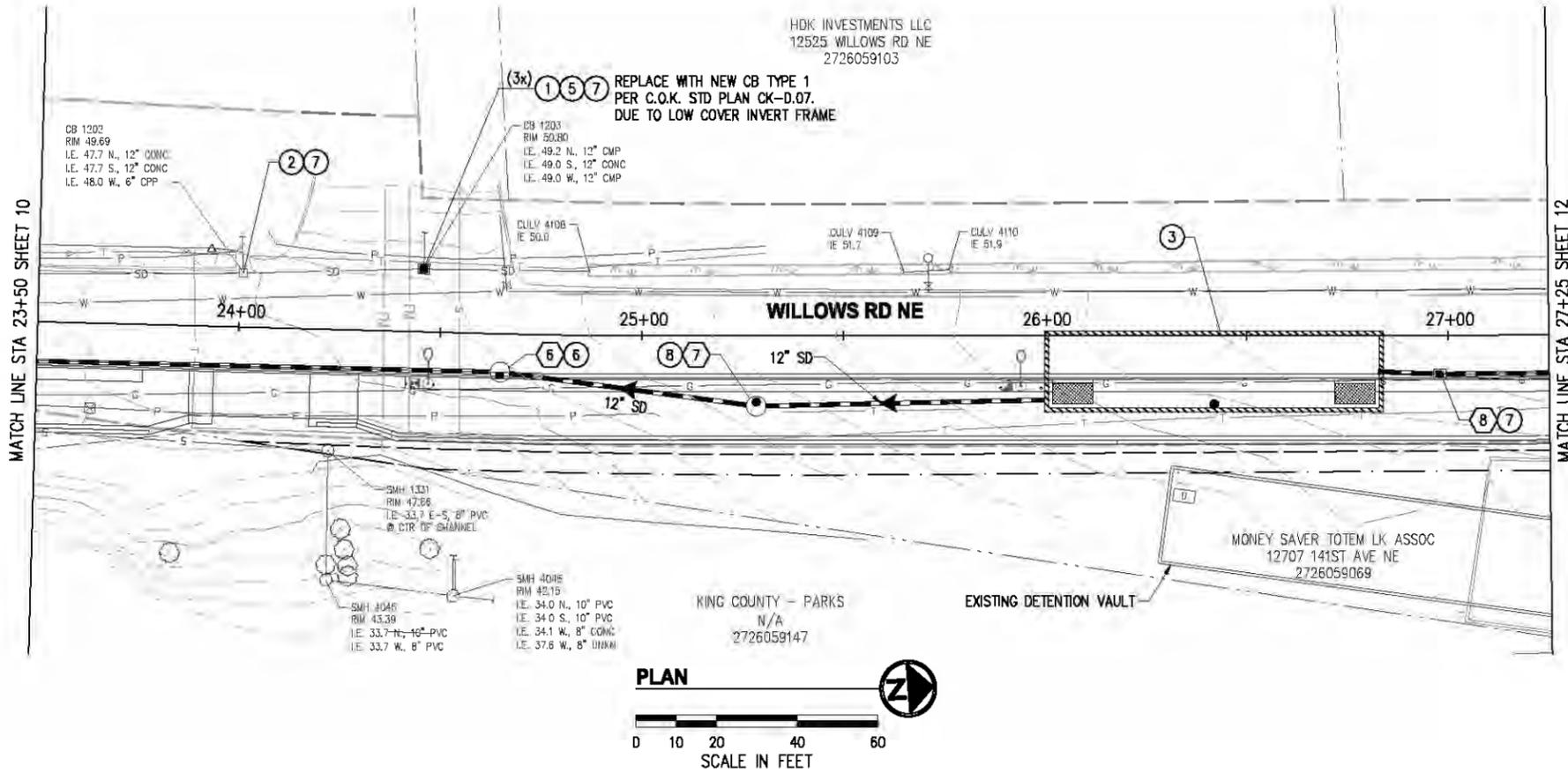


- ### LEGEND
- ## STORM DRAINAGE STRUCTURE ID NUMBER
 - STORM DRAIN PIPE
 - CATCH BASIN TYPE 2 PER C.O.K. STD PLAN CK-D.09
 - CATCH BASIN TYPE 1 PER C.O.K. STD PLAN CK-D.07 OR TYPE 1L PER C.O.K. STD PLAN CK-D.08
 - ▶ DIRECTIONAL FLOW ARROW
 - //// REMOVE EXISTING PIPE
 - ⊕ LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 38-42

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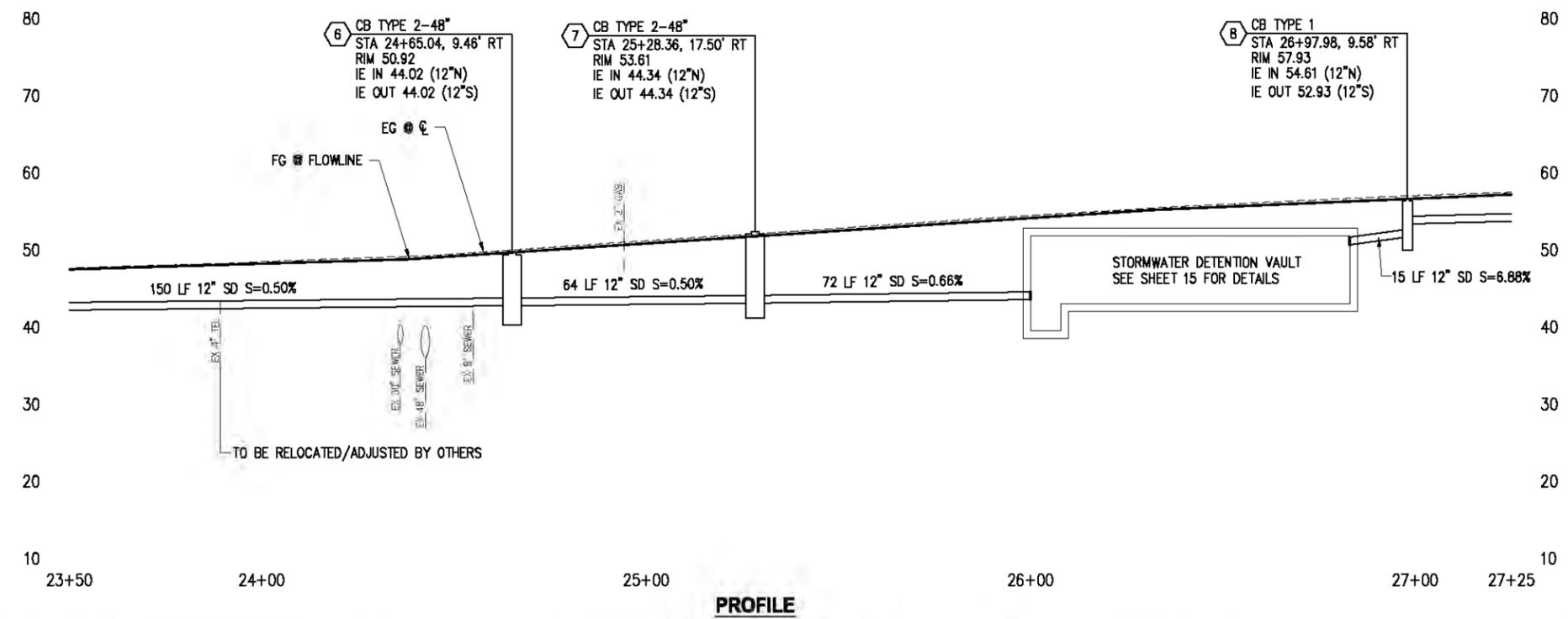
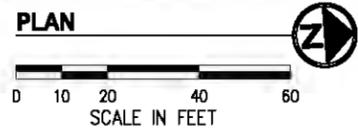
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HOK INVESTMENTS LLC
12525 WILLOWS RD NE
2726059103



- GENERAL NOTES**
1. STORM TRENCH SHALL BE PER C.O.K. STD PLAN CK-D.02, EXCEPT THAT THE BEDDING AND BACKFILL MATERIAL SHALL BE CSBC.
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 - ⊕ LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 38-42

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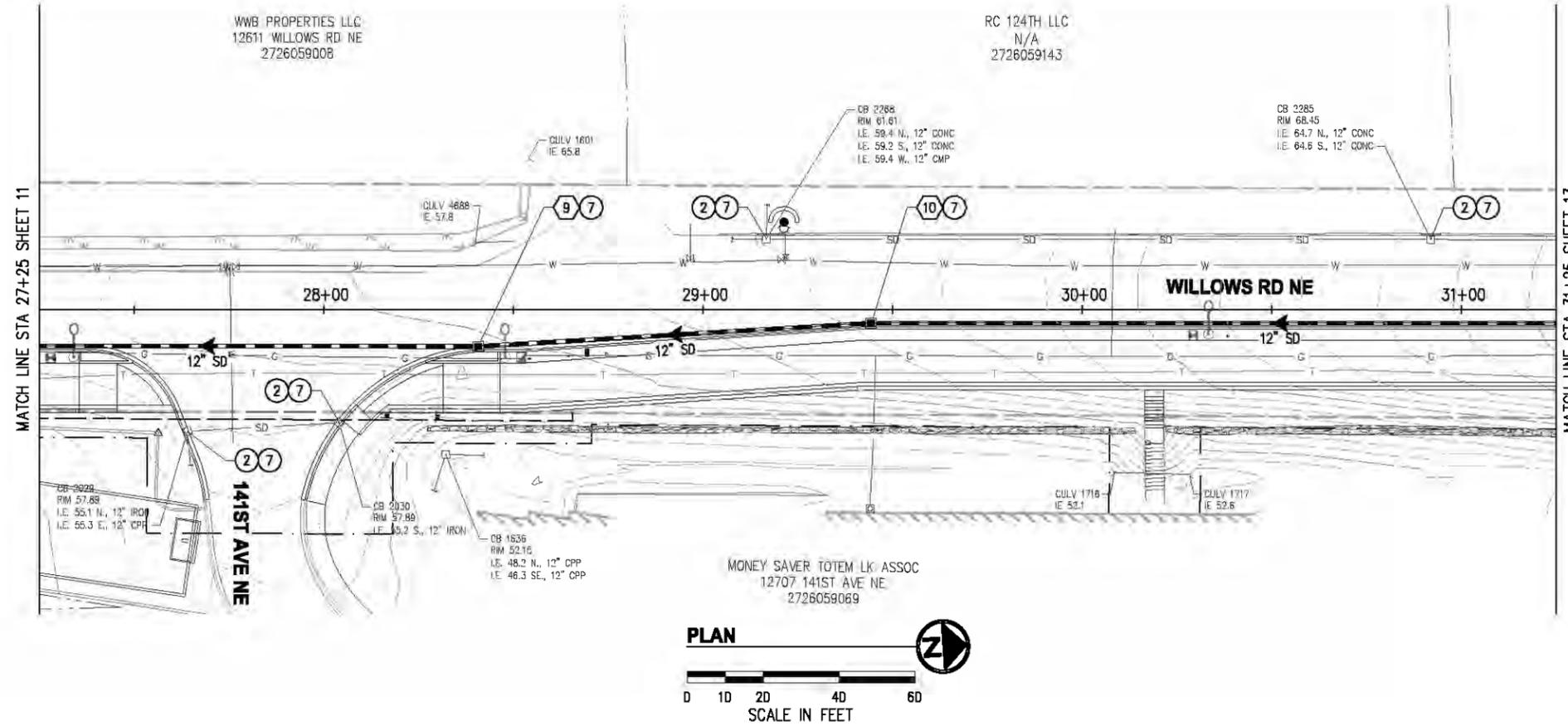


CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

STORM DRAIN PLAN & PROFILE
WILLOWS RD NE
STA 23+50 TO STA 27+25
KPG PROJECT No. 17132 SHT 11 OF 53

WVB PROPERTIES LLC
12611 WILLOWS RD NE
2726059008

RC 124TH LLC
N/A
2726059143

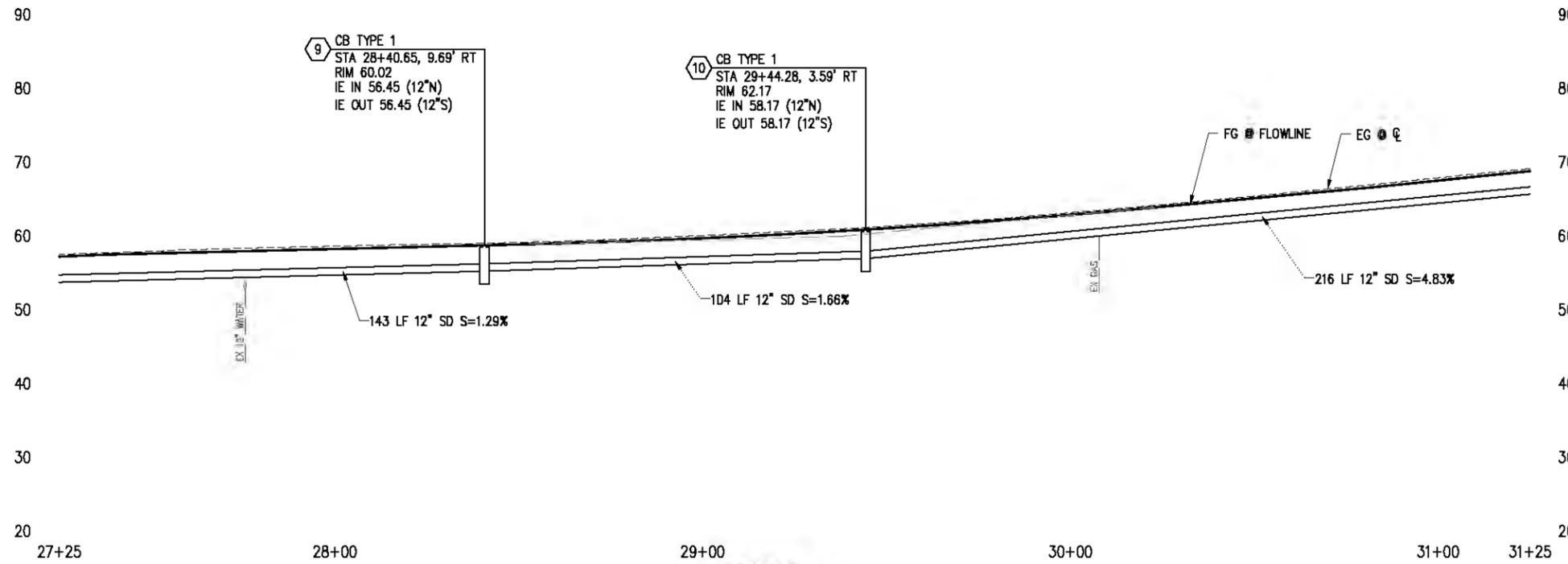


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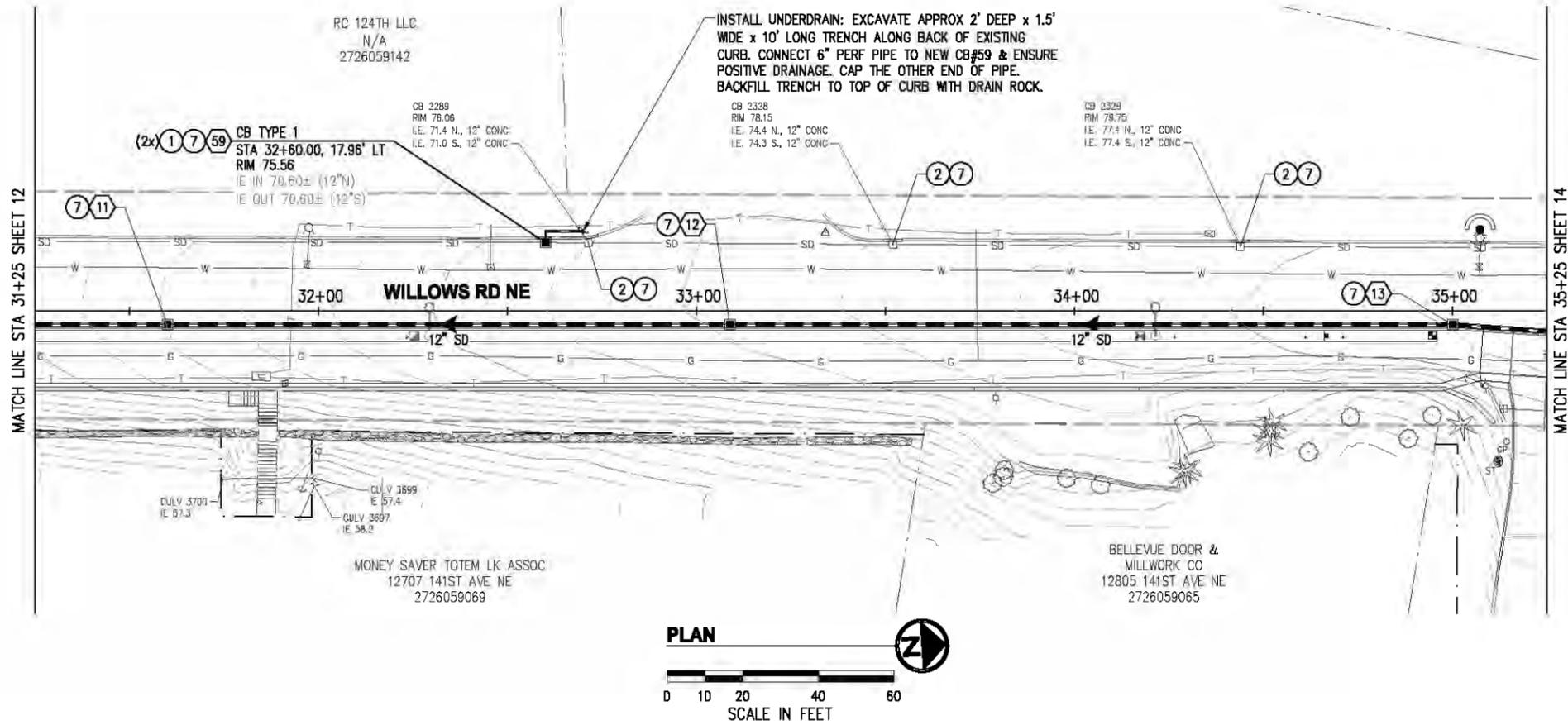
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CITY OF KIRKLAND
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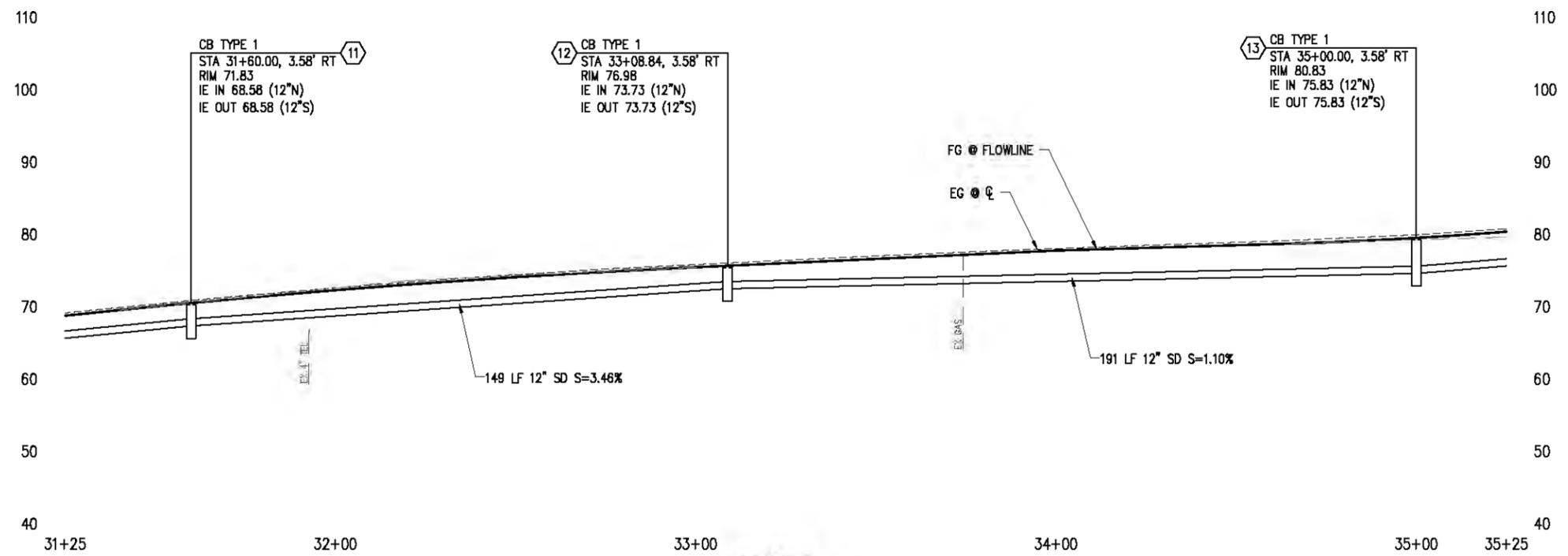
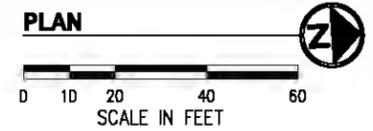
STORM DRAIN PLAN & PROFILE
WILLOWS RD NE
STA 27+25 TO STA 31+25
KPG PROJECT No. 17132 SHT 12 OF 53

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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

STORM DRAIN PLAN & PROFILE
WILLOWS RD NE
STA 31+25 TO STA 35+25
KPG PROJECT No. 17132 SHT 13 OF 53

GENERAL NOTES

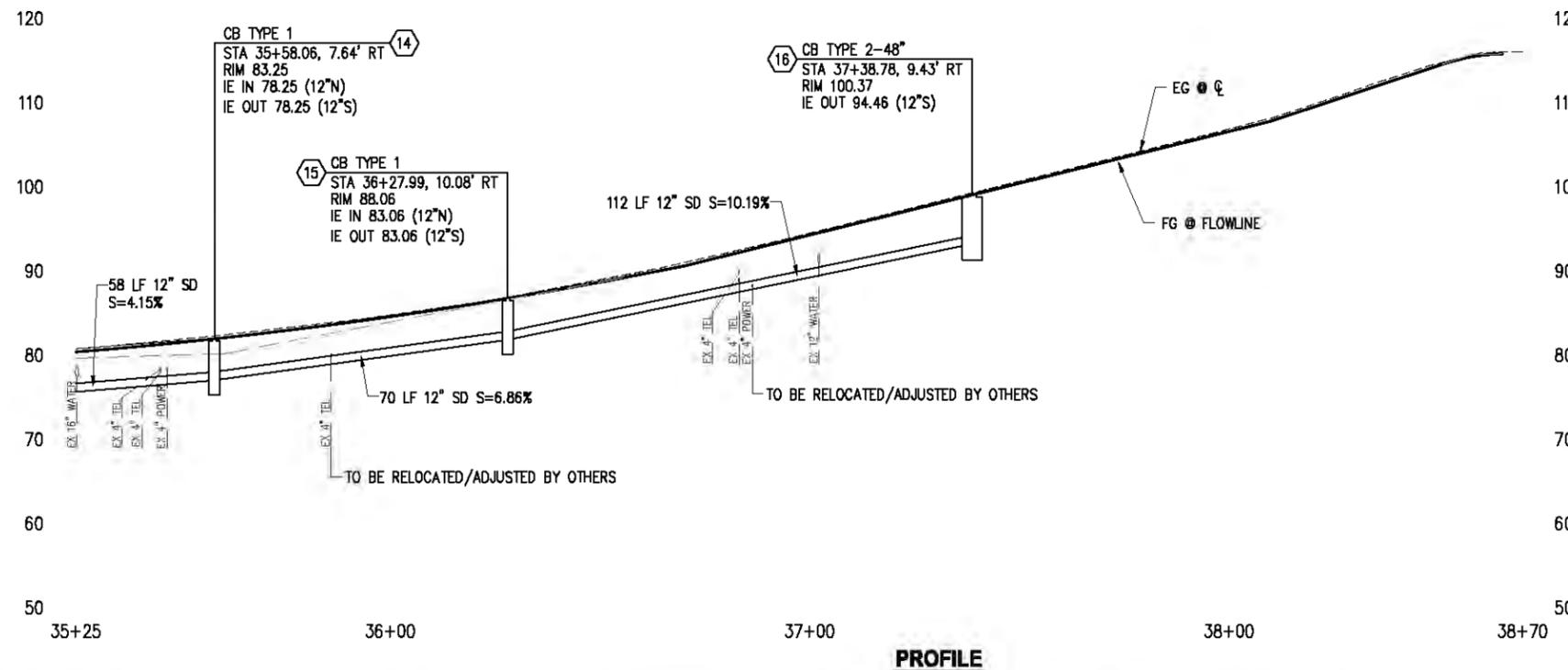
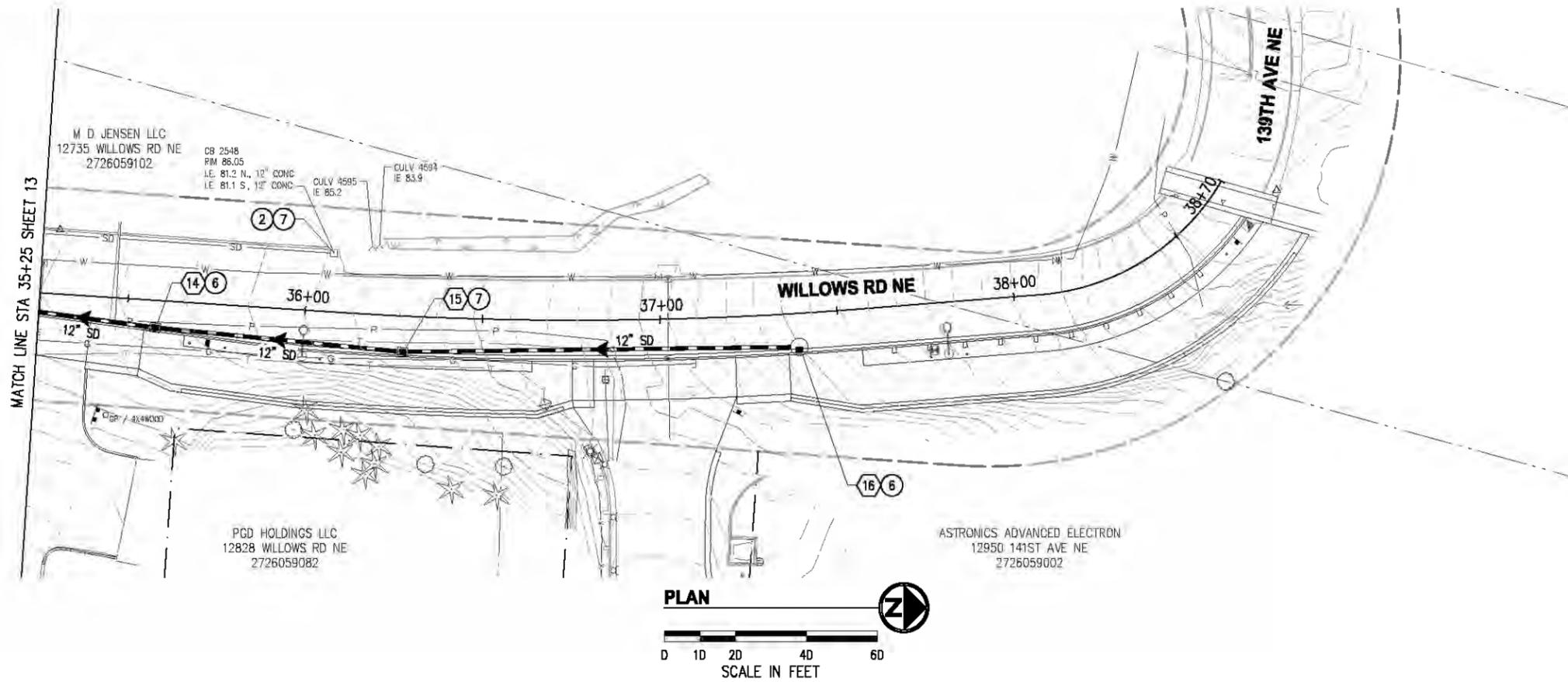
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LEGEND

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- REMOVE EXISTING PIPE
- LUMINAIRE & ASSOCIATED EQUIPMENT SEE SHEETS 38-42



PROFILE

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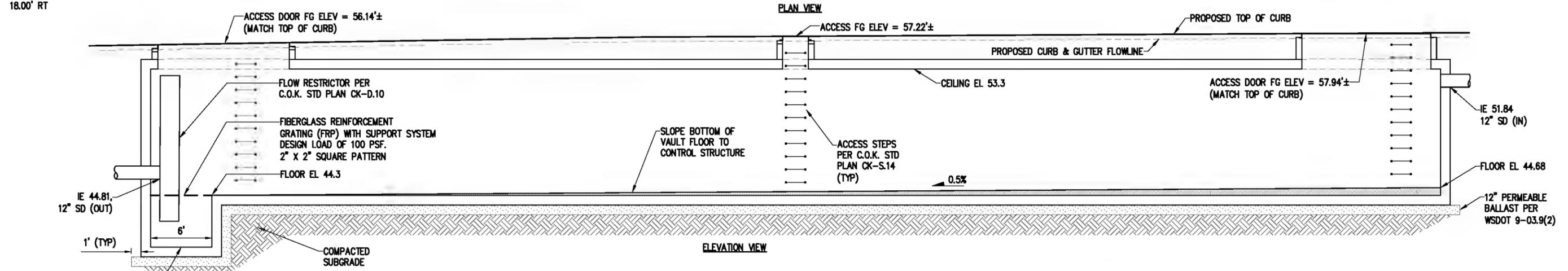
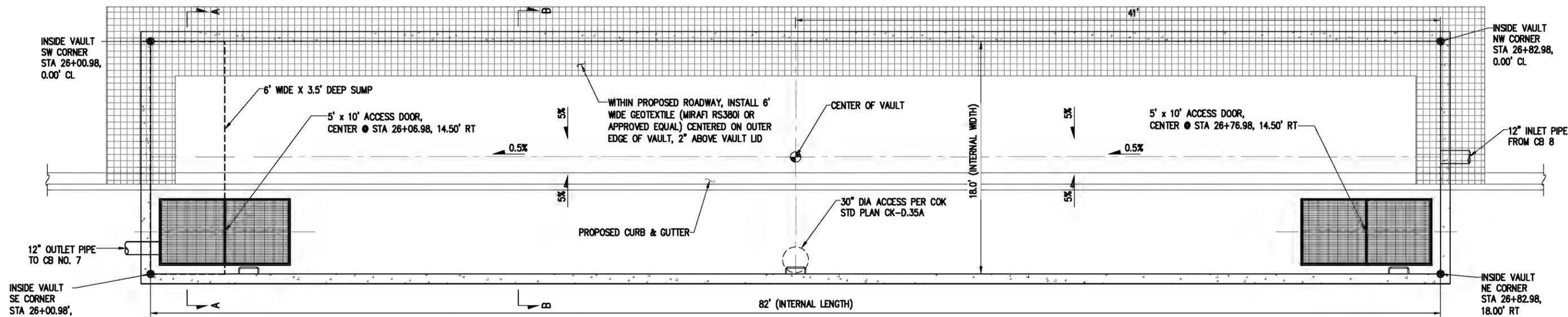
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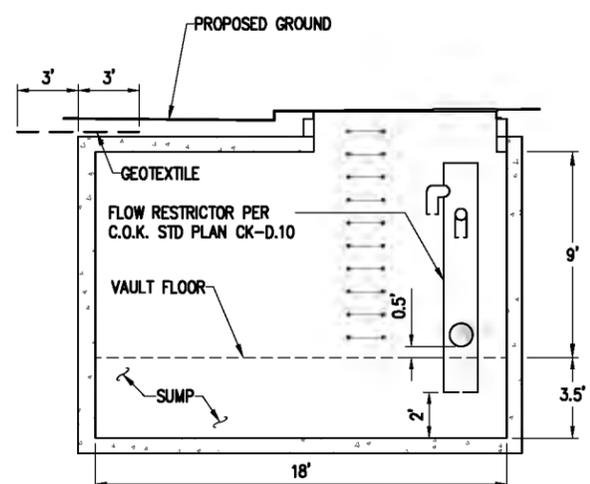
CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

STORM DRAIN PLAN & PROFILE
WILLOWS RD NE
STA 35+25 TO STA 38+70
KPG PROJECT No. 17132 SHT 14 OF 53

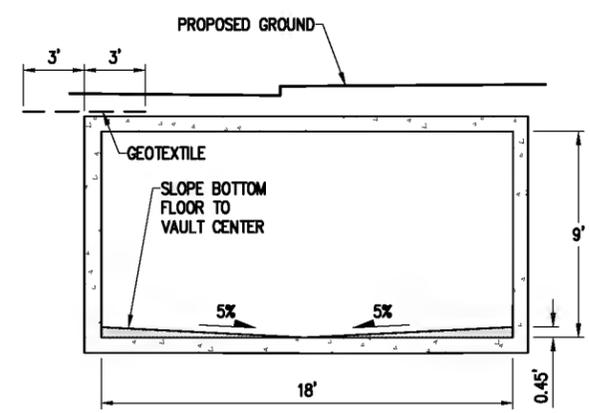
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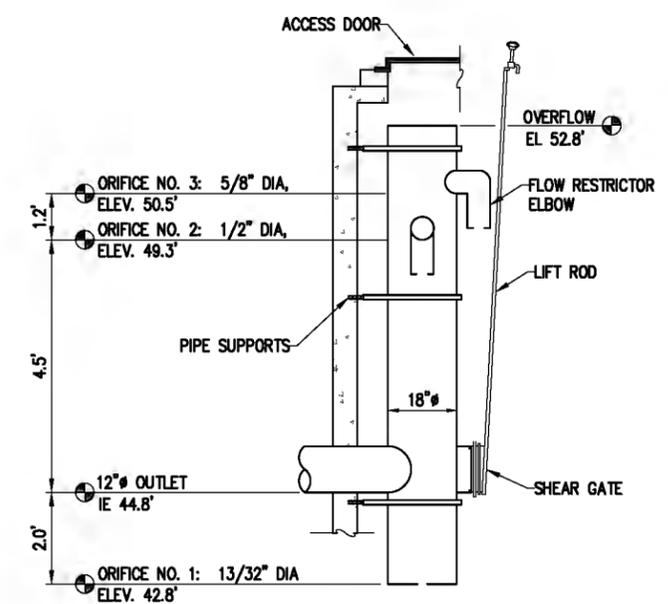
DETENTION VAULT DETAIL 1
NTS



SECTION A-A



SECTION B-B



FLOW RESTRICTOR ELEVATION VIEW

- NOTES:**
1. DETENTION VAULT PER C.O.K. STD PLAN CK-D.35 UNLESS OTHERWISE NOTED ON THIS SHEET.
 2. FLOW RESTRICTOR PER C.O.K. STD PLAN CK-D.10 TO BE LOCATED INSIDE OF DETENTION VAULT. SEE ELEVATION VIEW FOR ORIFICE SIZE AND LOCATIONS.
 3. CONTROL STRUCTURE TO BE LOCATED AT 5' X 10' OPENING. POSITION ORIFICES, AND SHEAR GATE SO THAT EACH IS VISIBLE FROM TOP OPENING.
 4. PROVIDE WATER STOP AT ALL CAST-IN-PLACE CONSTRUCTION JOINTS. PRE-CAST VAULTS SHALL HAVE APPROVED RUBBER GASKET SYSTEM WITH JOINTS GROUTED AFTER INSTALL.
 5. ALL METAL PARTS SHALL BE CORROSION RESISTANT.
 6. DESIGN LIVE LOAD (OVER AND AROUND VAULTS) FOR FIRE DEPARTMENT APPARATUS LOADING:
 - a. HS 20 TRUCK LOADING, AND;
 - b. STABILIZER OUTRIGGER MAXIMUM REACTION = 45,000-LBS CONCENTRATED LOAD; THIS LOAD MUST BE APPLIED ON AN 18-INCH BY 18-INCH AREA AND ALSO APPLIED AS AN UNFACTORED LOAD ON A 10-INCH BY 14-INCH AREA
 7. PROVIDE 9-INCH MIN CLEARANCE FROM FINISHED GRADE TO TOP OF VAULT LID

NO.	DATE	BY	APPR.	REVISIONS

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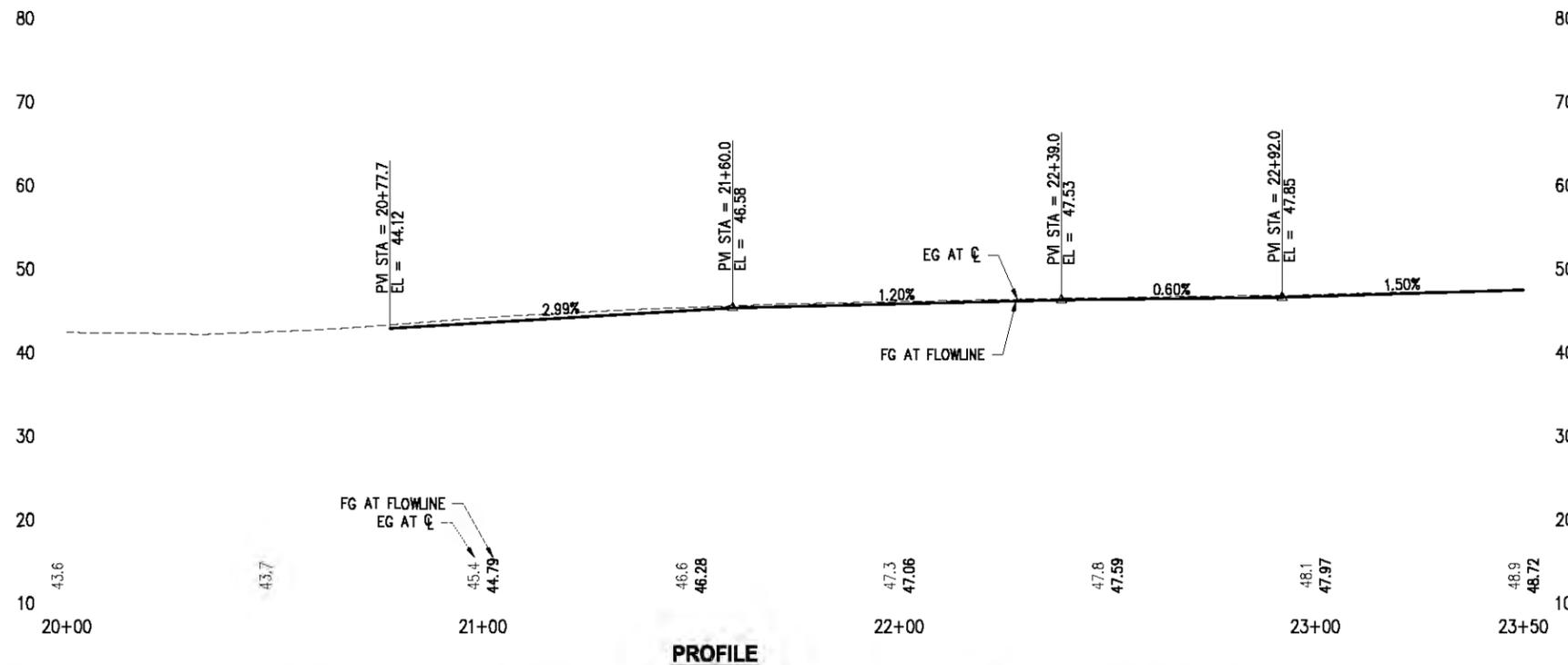
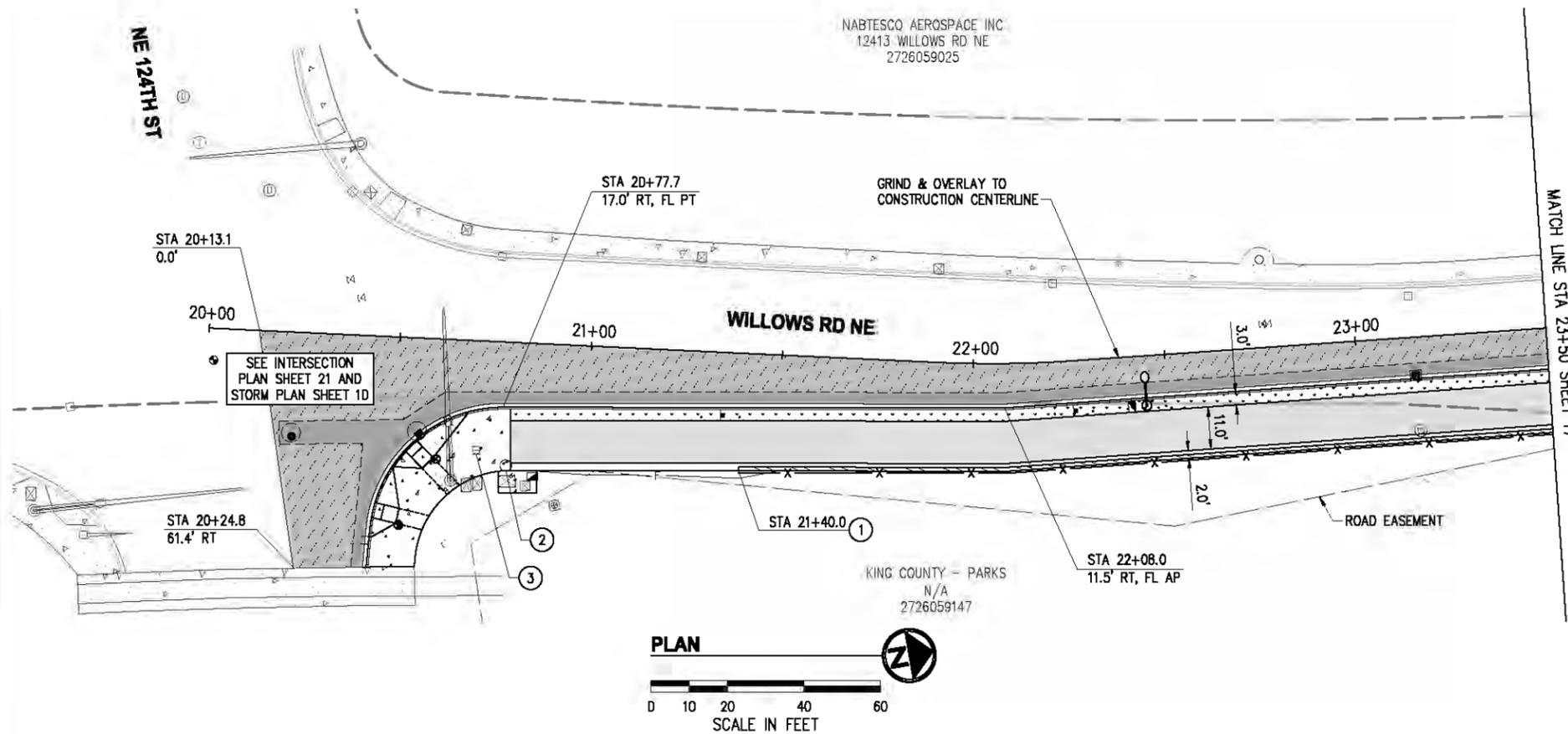
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01/03/20



CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

DETENTION VAULT DETAILS	
KPG PROJECT No. 17132	SHT 15 OF 53

NABTESCO AEROSPACE INC
12413 WILLOWS RD NE
2726059025



GENERAL NOTES

- FOR ALIGNMENT & SURVEY CONTROL, SEE SHEET 3.
- FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEET 4.
- FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 10-14.
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- FOR LAYOUT & GRADING OF CURB RETURNS, RAMPS, AND DRIVEWAYS, SEE INTERSECTION SHEETS 21-22 AND DRIVEWAY SHEETS 23-25.

CONSTRUCTION NOTES

- COATED CHAIN LINK FENCE (4') PER C.O.K. STD PLAN CK-R.51A; AT WALL LOCATIONS, SURFACE MOUNT PER DETAIL 2 SHEET 3D.
- ADJUST SEWER STRUCTURE TO FINISHED GRADE PER WOODINVILLE WATER DISTRICT SEWER STD PLAN NO. 22.
- ADJUST GAS VALVE TO FINISHED GRADE.
- UTILITY TO BE RELOCATED/REMOVED/ADJUSTED BY OTHERS.
- RELOCATE 1" WATER SERVICE TO CONNECT TO MAIN IN WILLOWS RD PER C.O.K. STD PLAN CK-W.18. REINSTALL EXISTING METER; ALL OTHER COMPONENTS SHALL BE NEW. INSTALL METER BOX IN PLANTER PER C.O.K. STD PLAN CK-W.21. CONNECT TO EXISTING SERVICE ON PRIVATE PROPERTY SIDE WITH APPROPRIATE COUPLER. REMOVE EXISTING SERVICE LINE TO CORP STOP ON LATERAL, CLOSE & CAP CORP STOP.
- REMOVE & REINSTALL MAILBOX WITH NEW WOOD POST & HARDWARE PER WSDOT STD PLAN H-70.10, LOCATION AS DIRECTED.
- INSTALL GUARDRAIL PER WSDOT STD PLAN C-20.10. ALIGN FACE OF GUARDRAIL WITH BACK OF CURB. INSTALL GUARDRAIL ANCHOR AND END SECTION PER WSDOT STD PLAN C-23.60 AT EACH END.
- REPLACE CONCRETE VERTICAL CURB PER C.O.K. STD PLAN CK-R.17C.
- REMOVE EXISTING HYDRANT ASSEMBLY TO EXISTING VALVE. INSTALL NEW HYDRANT ASSEMBLY PER C.O.K. STD PLAN CK-W.14. ENSURE MIN 3' RADIUS OF LEVEL GROUND AROUND HYDRANT PER C.O.K. STD PLAN CK-W.16, INSTALL COMPACT MODULAR BLOCK WALL AS NECESSARY. RESTORE AREA AROUND HYDRANT WITH 2" CSTC.

LEGEND

- SAWCUT PER SITE PREPARATION PLAN SHEETS 7-9
- CURB & GUTTER PER C.O.K. STD PLAN CK-R.17, FLOWLINE LOCATIONS NOTED
- CHAIN LINK FENCE, AS NOTED
- APPROXIMATE FILL CATCH LINE
- PLANTER STRIP, SEE SHEETS 44-47
- ASPHALT ROADWAY PER TYPICAL SECTIONS SHEET 4
- 2" GRIND & ASPHALT OVERLAY PER TYPICAL SECTIONS SHEET 4, LIMITS AS NOTED
- ASPHALT PATH PER TYPICAL SECTIONS SHEET 4
- ASPHALT DRIVEWAY, SEE SHEETS 23-25
- SHOULDER/WALL CAP PER TYPICAL SECTIONS SHEET 4
- CEMENT CONC. SIDEWALK, SEE SHEETS 21-22
- CEMENT CONC. DRIVEWAY, SEE SHEETS 23-25
- WALL, SEE SHEETS 26-37
- SIGN, SEE SHEETS 48-50
- STORM STRUCTURE, SEE SHEETS 10-14
- LUMINAIRE & JUNCTION BOX, SEE SHEETS 38-42

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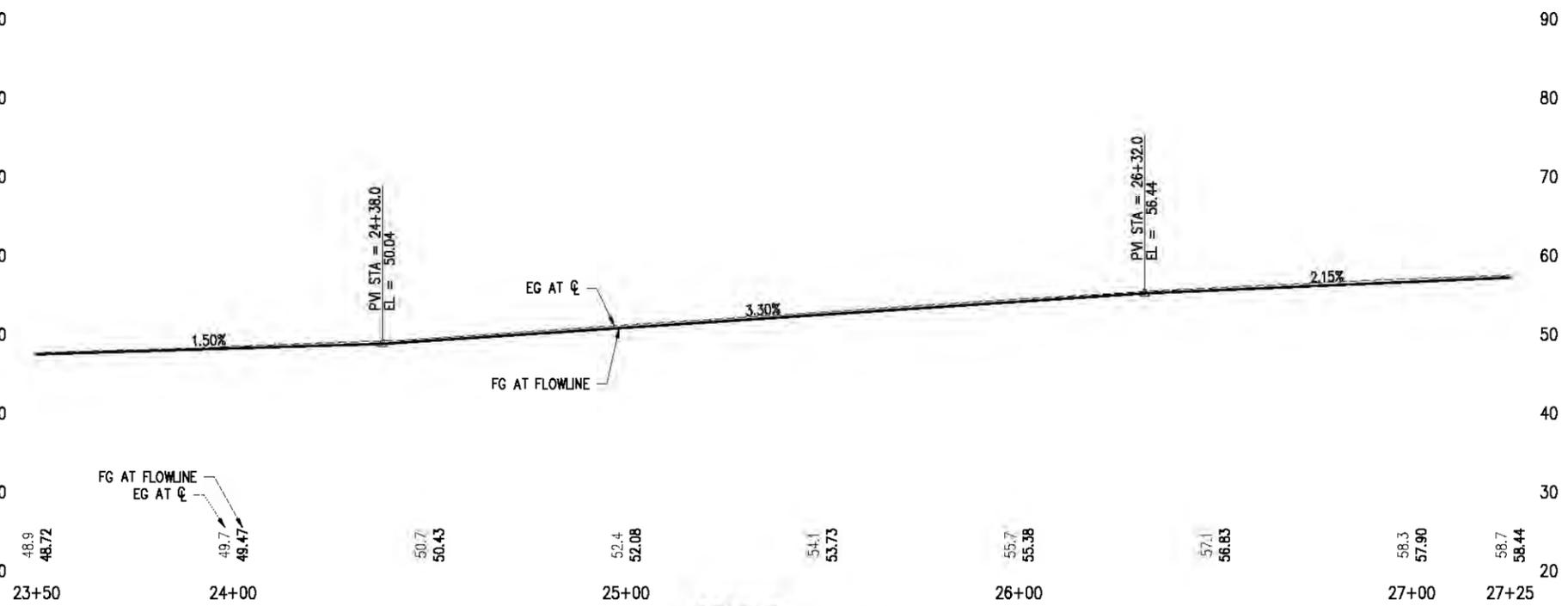
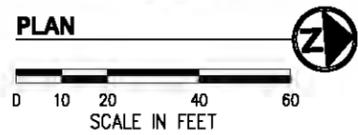
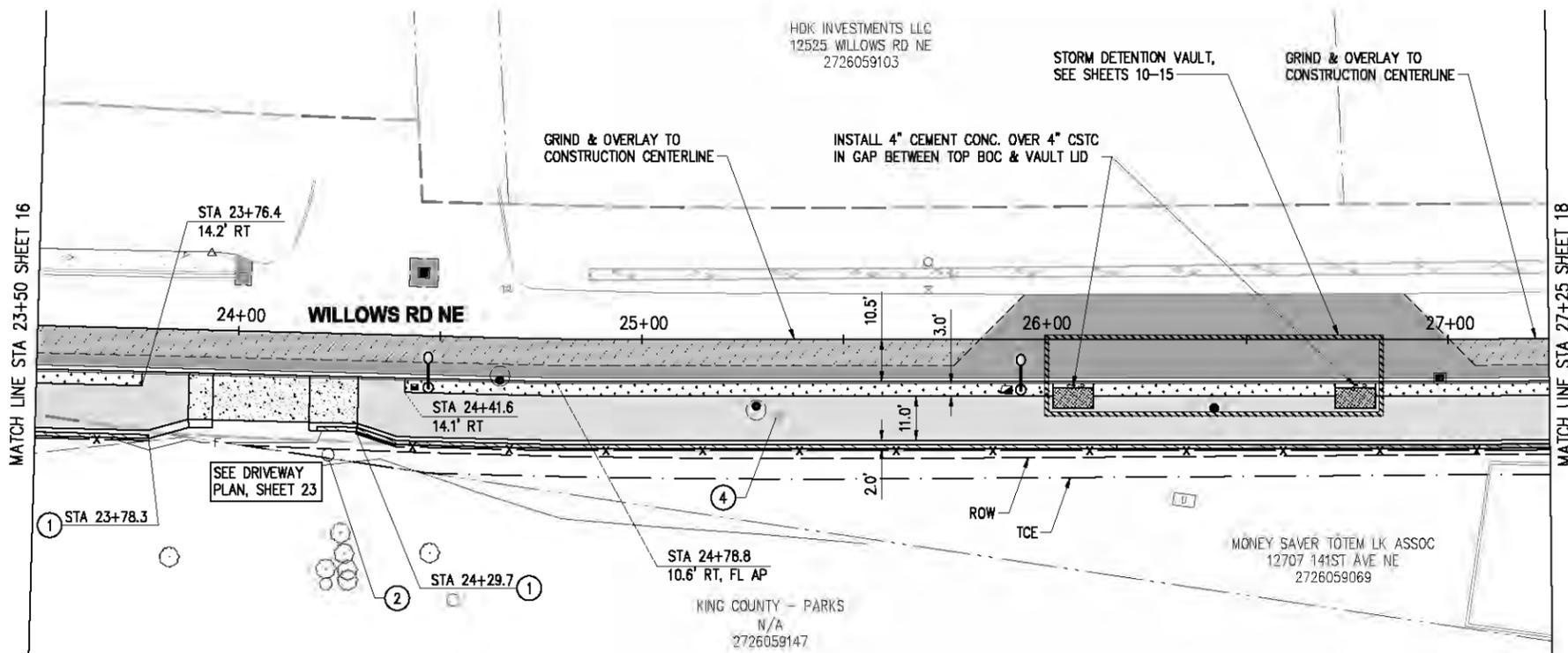
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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

ROADWAY PLAN & PROFILE
WILLOWS RD NE
STA 20+00 TO STA 23+50
KPG PROJECT No. 17132 SHT 16 OF 53



GENERAL NOTES

1. FOR ALIGNMENT & SURVEY CONTROL, SEE SHEET 3.
2. FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEET 4.
3. FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 10-14.
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CONSTRUCTION NOTES

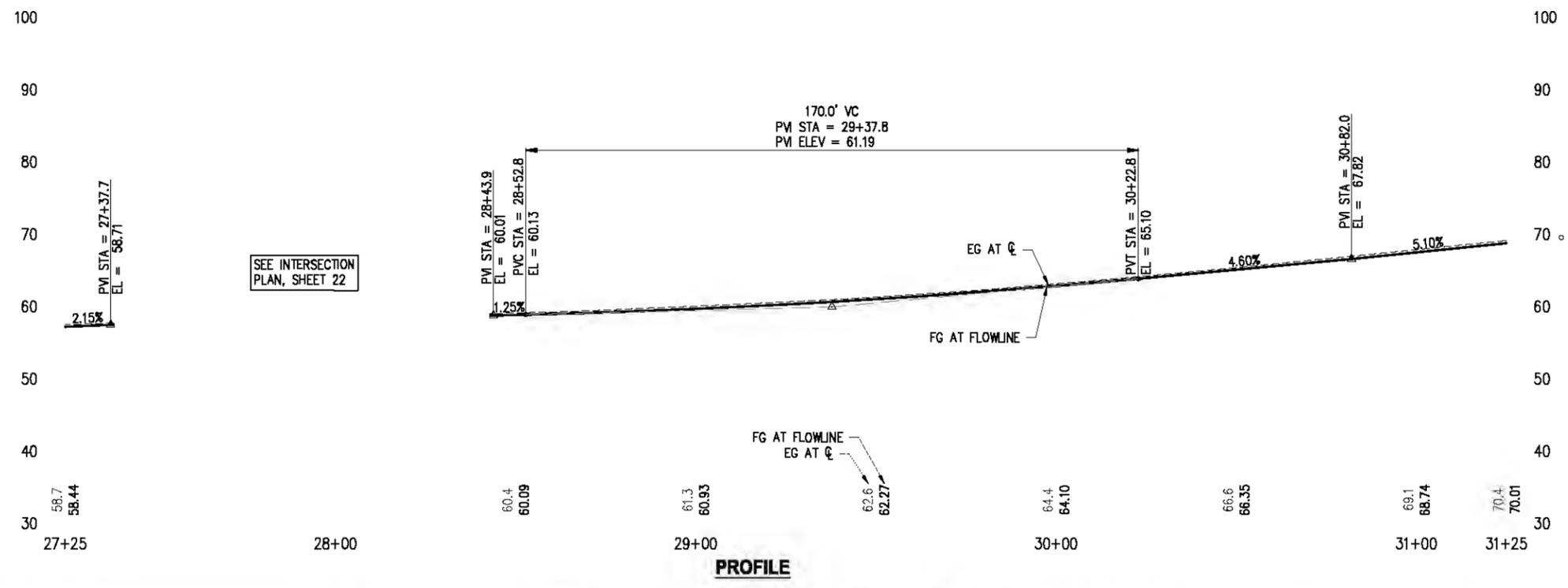
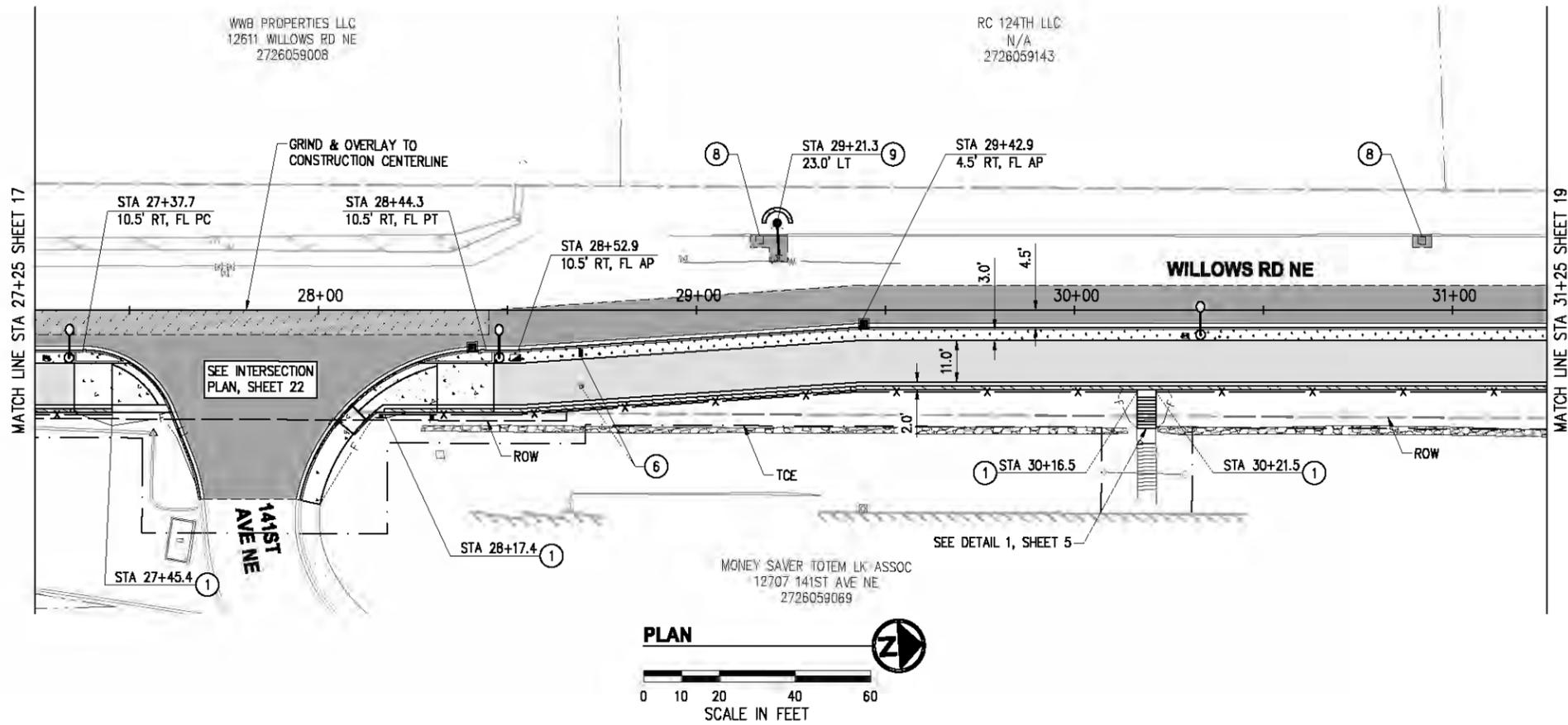
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- 7 INSTALL GUARDRAIL PER WSDOT STD PLAN C-20.10. ALIGN FACE OF GUARDRAIL WITH BACK OF CURB. INSTALL GUARDRAIL ANCHOR AND END SECTION PER WSDOT STD PLAN C-23.60 AT EACH END.
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LEGEND

- SAWCUT PER SITE PREPARATION PLAN SHEETS 7-9
- ==== CURB & GUTTER PER C.O.K. STD PLAN CK-R.17, FLOWLINE LOCATIONS NOTED
- x- CHAIN LINK FENCE, AS NOTED
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- [Pattern] PLANTER STRIP, SEE SHEETS 44-47
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- [Pattern] ASPHALT PATH PER TYPICAL SECTIONS SHEET 4
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- [Pattern] WALL, SEE SHEETS 26-37
- [Symbol] SIGN, SEE SHEETS 48-50
- [Symbol] STORM STRUCTURE, SEE SHEETS 10-14
- [Symbol] LUMINAIRE & JUNCTION BOX, SEE SHEETS 38-42

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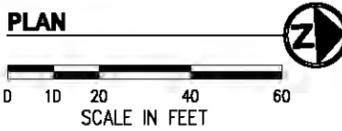
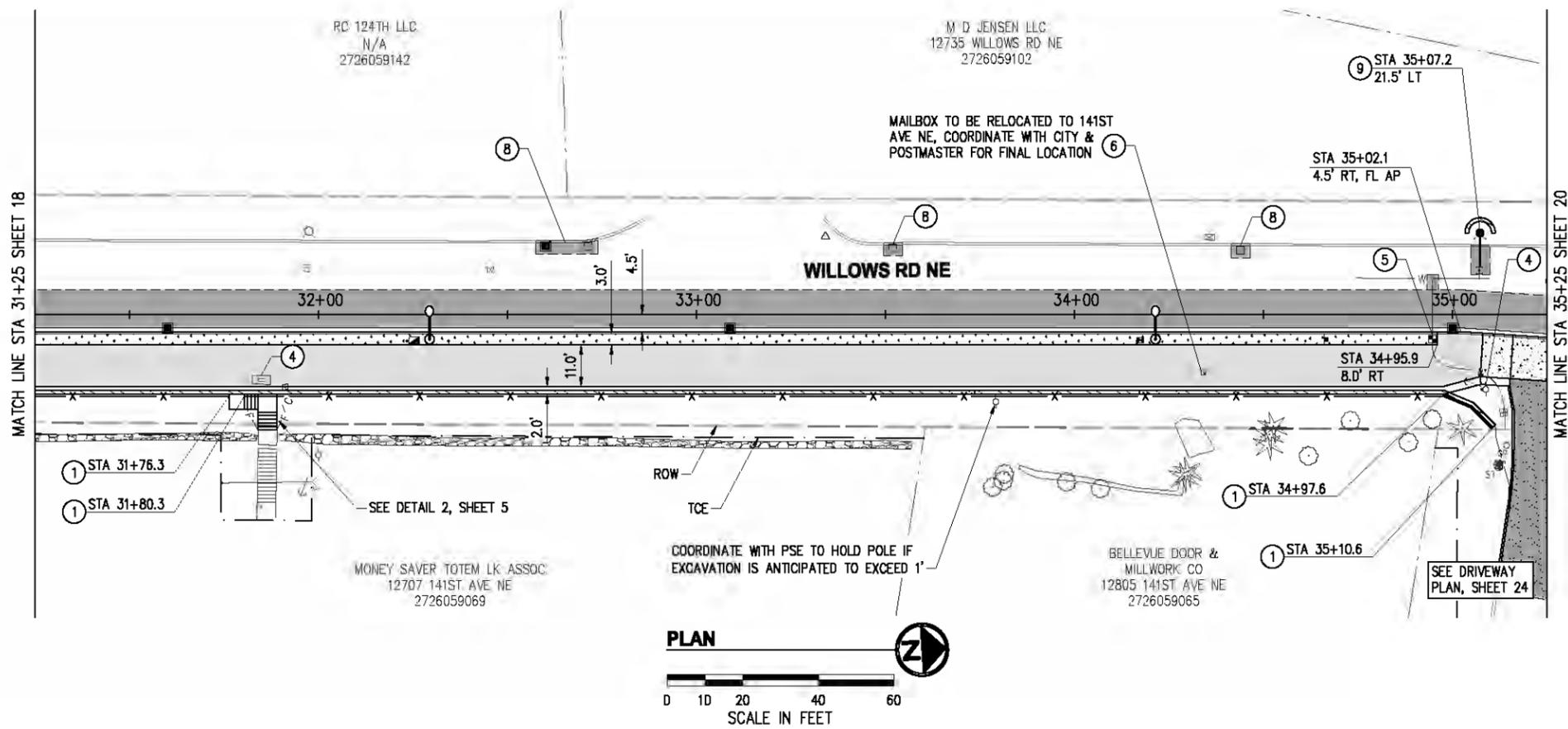
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GENERAL NOTES

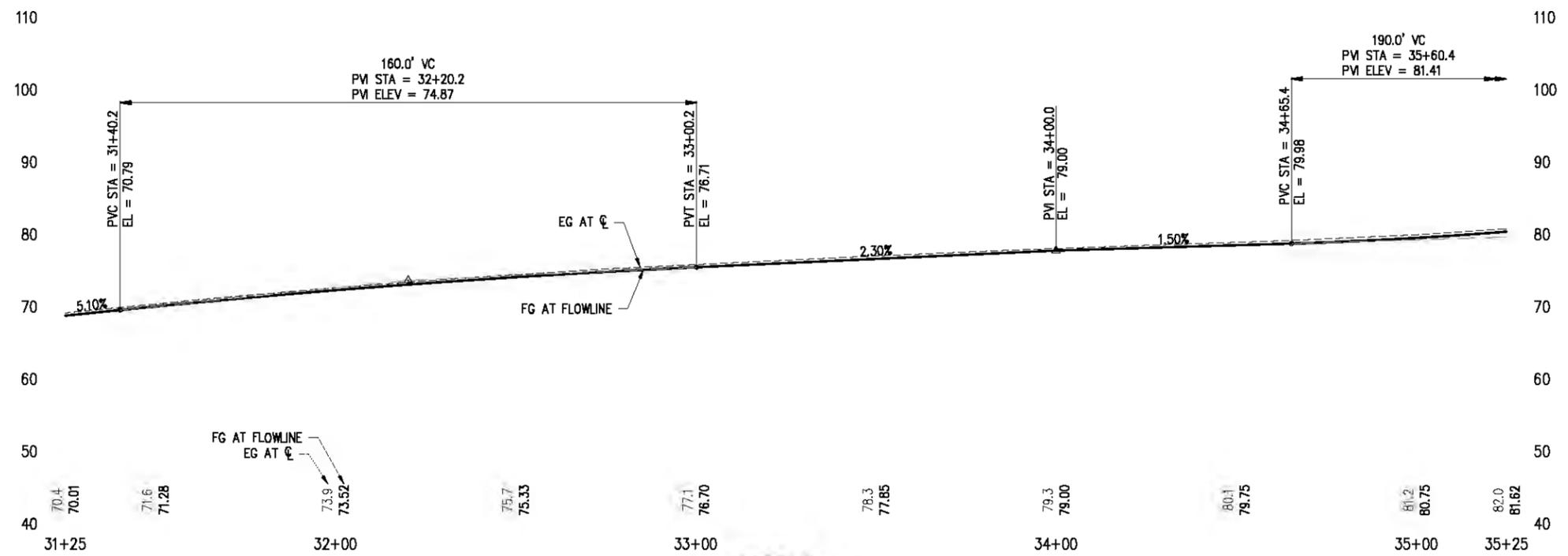
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PROFILE

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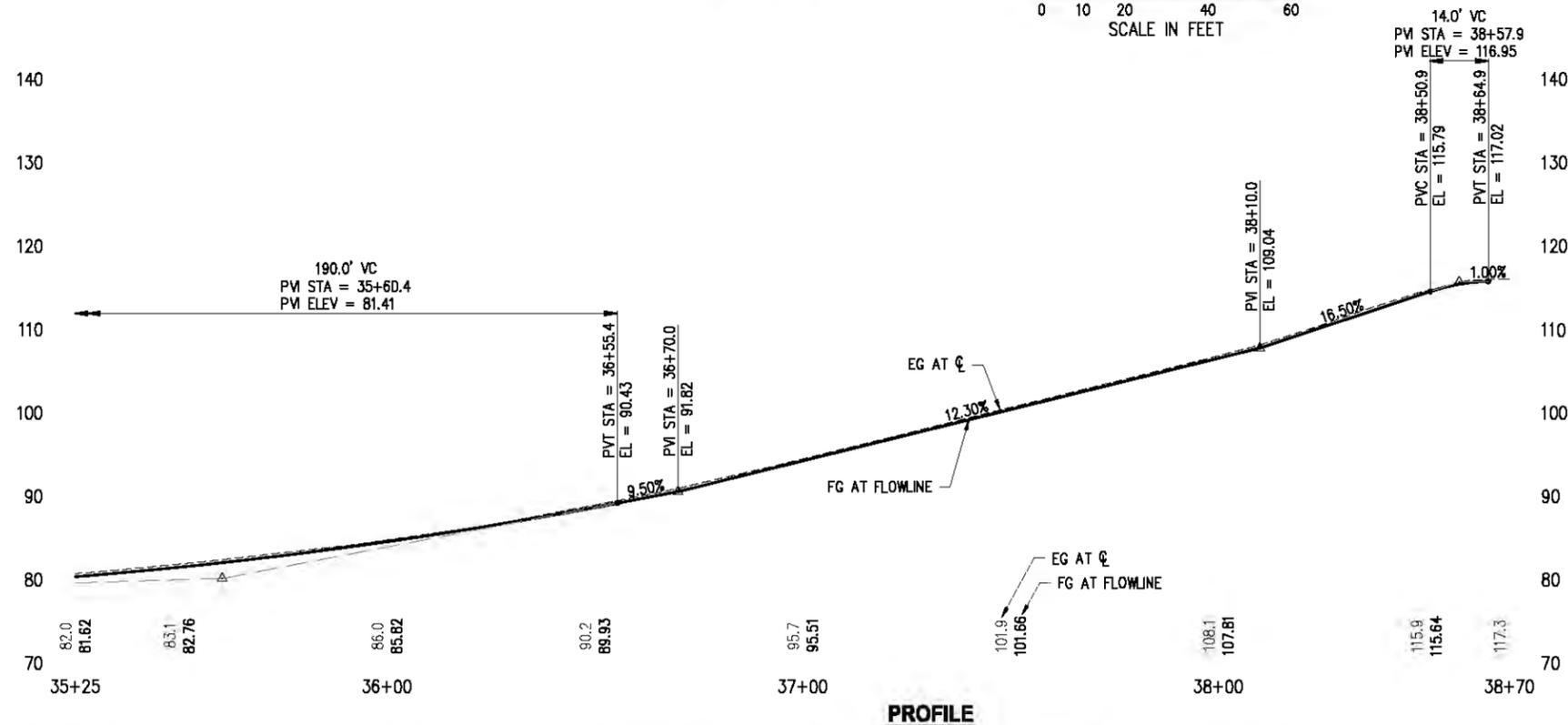
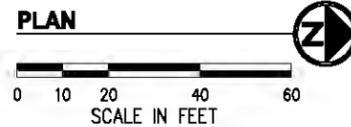
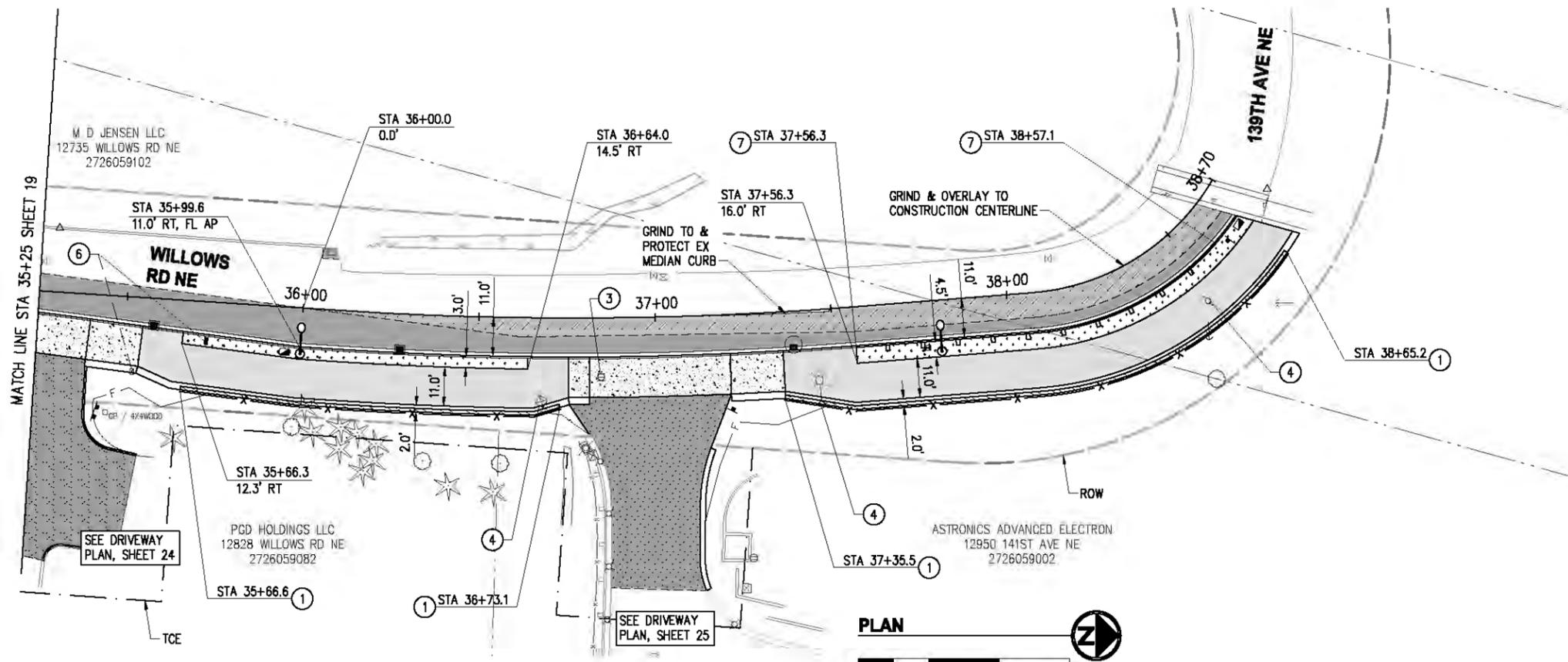
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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

ROADWAY PLAN & PROFILE
WILLOWS RD NE
STA 31+25 TO STA 35+25
KPG PROJECT No. 17132 SHT 19 OF 53

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PROFILE

GENERAL NOTES

1. FOR ALIGNMENT & SURVEY CONTROL, SEE SHEET 3.
2. FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEET 4.
3. FOR TREATMENT OF EXIST STORM STRUCTURES, SEE SHEETS 10-14.
4. CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
5. FOR LAYOUT & GRADING OF CURB RETURNS, RAMPS, AND DRIVEWAYS, SEE INTERSECTION SHEETS 21-22 AND DRIVEWAY SHEETS 23-25.

CONSTRUCTION NOTES

- ① COATED CHAIN LINK FENCE (4') PER C.O.K. STD PLAN CK-R.51A; AT WALL LOCATIONS, SURFACE MOUNT PER DETAIL 2 SHEET 3D.
- ② ADJUST SEWER STRUCTURE TO FINISHED GRADE PER WOODINVILLE WATER DISTRICT SEWER STD PLAN NO. 22.
- ③ ADJUST GAS VALVE TO FINISHED GRADE.
- ④ UTILITY TO BE RELOCATED/REMOVED/ADJUSTED BY OTHERS.
- ⑤ RELOCATE 1" WATER SERVICE TO CONNECT TO MAIN IN WILLOWS RD PER C.O.K. STD PLAN CK-W.18. REINSTALL EXISTING METER; ALL OTHER COMPONENTS SHALL BE NEW. INSTALL METER BOX IN PLANTER PER C.O.K. STD PLAN CK-W.21. CONNECT TO EXISTING SERVICE ON PRIVATE PROPERTY SIDE WITH APPROPRIATE COUPLER. REMOVE EXISTING SERVICE LINE TO CORP STOP ON LATERAL, CLOSE & CAP CORP STOP.
- ⑥ REMOVE & REINSTALL MAILBOX WITH NEW WOOD POST & HARDWARE PER WSDOT STD PLAN H-70.10, LOCATION AS DIRECTED.
- ⑦ INSTALL GUARDRAIL PER WSDOT STD PLAN C-20.10. ALIGN FACE OF GUARDRAIL WITH BACK OF CURB. INSTALL GUARDRAIL ANCHOR AND END SECTION PER WSDOT STD PLAN C-23.60 AT EACH END.
- ⑧ REPLACE CONCRETE VERTICAL CURB PER C.O.K. STD PLAN CK-R.17C.
- ⑨ REMOVE EXISTING HYDRANT ASSEMBLY TO EXISTING VALVE. INSTALL NEW HYDRANT ASSEMBLY PER C.O.K. STD PLAN CK-W.14. ENSURE MIN 3' RADIUS OF LEVEL GROUND AROUND HYDRANT PER C.O.K. STD PLAN CK-W.16, INSTALL COMPACT MODULAR BLOCK WALL AS NECESSARY. RESTORE AREA AROUND HYDRANT WITH 2" CSTC.

LEGEND

- SAWCUT PER SITE PREPARATION PLAN SHEETS 7-9
- CURB & GUTTER PER C.O.K. STD PLAN CK-R.17, FLOWLINE LOCATIONS NOTED
- x- CHAIN LINK FENCE, AS NOTED
- F- APPROXIMATE FILL CATCH LINE
- [Pattern] PLANTER STRIP, SEE SHEETS 44-47
- [Pattern] ASPHALT ROADWAY PER TYPICAL SECTIONS SHEET 4
- [Pattern] 2" GRIND & ASPHALT OVERLAY PER TYPICAL SECTIONS SHEET 4, LIMITS AS NOTED
- [Pattern] ASPHALT PATH PER TYPICAL SECTIONS SHEET 4
- [Pattern] ASPHALT DRIVEWAY, SEE SHEETS 23-25
- [Pattern] SHOULDER/WALL CAP PER TYPICAL SECTIONS SHEET 4
- [Pattern] CEMENT CONC. SIDEWALK, SEE SHEETS 21-22
- [Pattern] CEMENT CONC. DRIVEWAY, SEE SHEETS 23-25
- [Pattern] WALL, SEE SHEETS 26-37
- [Symbol] SIGN, SEE SHEETS 48-50
- [Symbol] STORM STRUCTURE, SEE SHEETS 10-14
- [Symbol] LUMINAIRE & JUNCTION BOX, SEE SHEETS 38-42

NO.	DATE	BY	APPR.	REVISIONS

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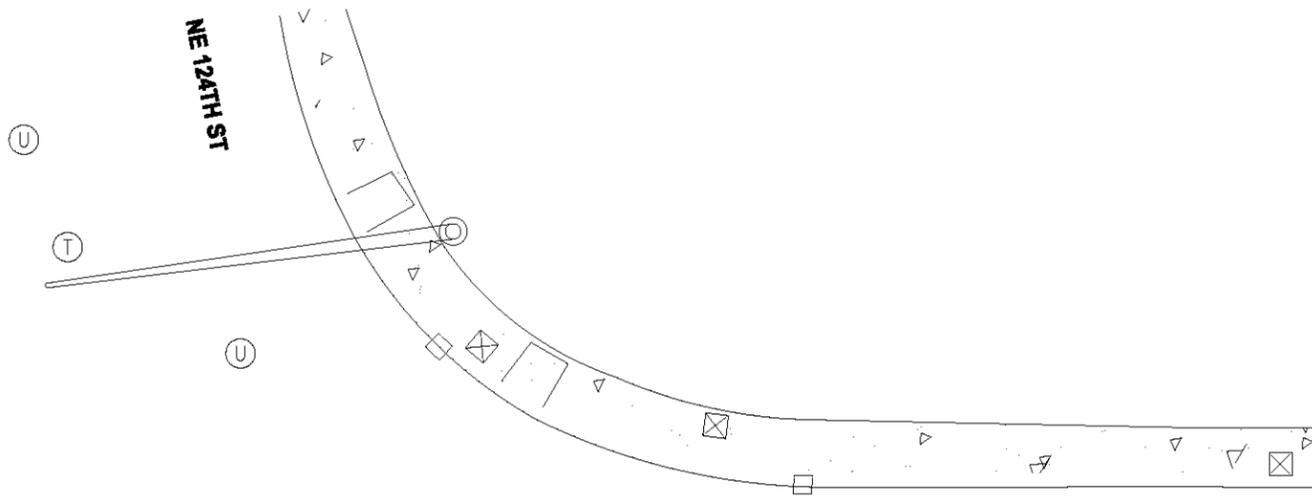
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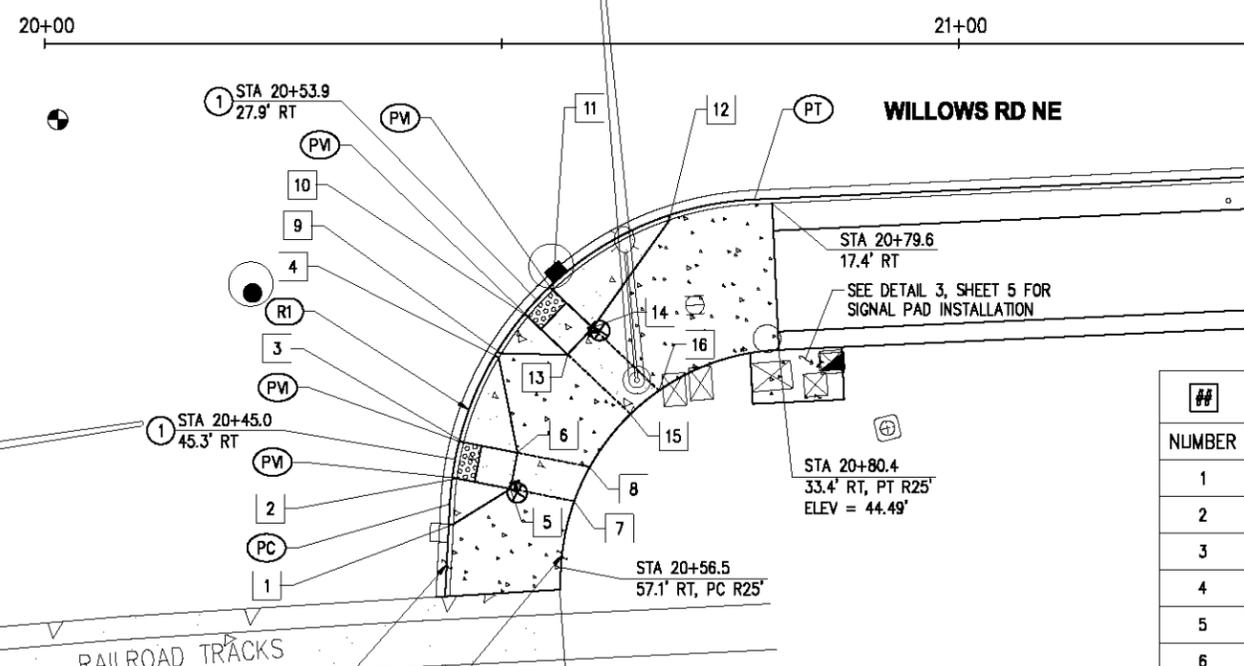
CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

ROADWAY PLAN & PROFILE
WILLOWS RD NE
STA 35+25 TO STA 38+70
KPG PROJECT No. 17132 SHT 20 OF 53



- GENERAL NOTES**
- CURB RAMP LOCATION SHOWN IS RAMP CENTER AT FACE OF CURB.
 - ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS, OR TO MAXIMUM EXTENT FEASIBLE (MEF) WHERE NOTED. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR WHEN FORMS ARE SET AND WHEN CONCRETE IS POURED. ANY GRADING MODIFICATIONS REQUIRED FOR COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
 - SEE SHEET 4 FOR TYPICAL SECTIONS & PAVEMENT DEPTHS. SEE ROADWAY SHEETS 16-20 FOR MAINLINE HORIZONTAL/VERTICAL GEOMETRY.
 - FINAL RESTORATION AT BACK OF WALK SHALL BE PER ROADWAY SHEETS 16-20, WALL SHEETS 26-37, AND LANDSCAPE SHEETS 44-47, TO THE LIMITS DEFINED ON SITE PREPARATION SHEETS 7-9.

- CONSTRUCTION NOTES**
- PERPENDICULAR CURB RAMP PER WSDOT STD PLAN F-40.15, OVER 4" CSTC
 - SINGLE DIRECTION CURB RAMP PER WSDOT STD PLAN F-40.16, OVER 4" CSTC
 - PEDESTRIAN CURB PER C.O.K. STD PLAN CK-R.17A



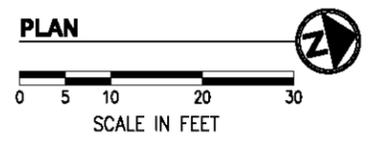
##	STATION	OFFSET	ELEV	DESCRIPTION
1	20+44.8	52.4' RT	41.99	TOP OF FLARE
2	20+45.1	47.4' RT	41.62	BOTTOM OF RAMP
3	20+45.9	43.5' RT	41.68	BOTTOM OF RAMP
4	20+49.7	34.2' RT	42.66	TOP OF FLARE
5	20+51.0	48.5' RT	42.07	TOP OF RAMP
6	20+51.8	44.6' RT	42.13	TOP OF RAMP
7	20+58.0	49.9' RT	42.03	LANDING
8	20+59.7	46.1' RT	42.05	LANDING
9	20+50.0	33.8' RT	42.68	TOP OF FLARE
10	20+52.9	29.8' RT	42.42	BOTTOM OF RAMP
11	20+55.6	26.9' RT	42.48	BOTTOM OF RAMP
12	20+68.4	19.2' RT	43.95	TOP OF FLARE
13	20+57.3	33.9' RT	42.87	TOP OF RAMP
14	20+60.0	31.0' RT	42.93	TOP OF RAMP
15	20+64.1	40.4' RT	43.03	LANDING
16	20+67.2	37.8' RT	43.08	LANDING

##	CURVE	DELTA	RAD	LEN	TAN
(R1)	84°28'40"	35.00'	51.60'	31.78'	
PC	STA 20+44.4	50.2' RT	EL 41.55'		
PV	STA 20+44.6	47.3' RT	EL 41.62'		
PV	STA 20+45.4	43.4' RT	EL 41.68'		
PV	STA 20+52.5	29.4' RT	EL 42.44'		
PV	STA 20+55.3	26.5' RT	EL 42.48'		
PT	STA 20+77.7	17.0' RT	EL 44.12'		

- LEGEND**
- CURB & GUTTER PER C.O.K. STD PLAN CK-R.17, FLOWLINE LOCATIONS NOTED
 - CEMENT CONC. SIDEWALK PER C.O.K. STD PLAN CK-R.23, OVER 4" CSTC
 - CEMENT CONC. CURB RAMP, AS NOTED
 - DETECTABLE WARNING SURFACE PER C.O.K. STD PLAN CK-R.25B
 - PEDESTRIAN PUSH BUTTON & POLE, SEE SHEET 3B
 - STORM STRUCTURE, SEE SHEETS 10-14
 - LUMINAIRE & EQUIPMENT, SEE SHEETS 38-42
 - SIGN, SEE SHEETS 48-50

TRANSITION FROM FULL HEIGHT CURB TO FULLY DEPRESSED TO MATCH EXISTING RAILROAD XING FOUNDATION

TRANSITION SIDEWALK FROM CURB RAMP LANDING TO MATCH EXISTING RAILROAD XING FOUNDATION

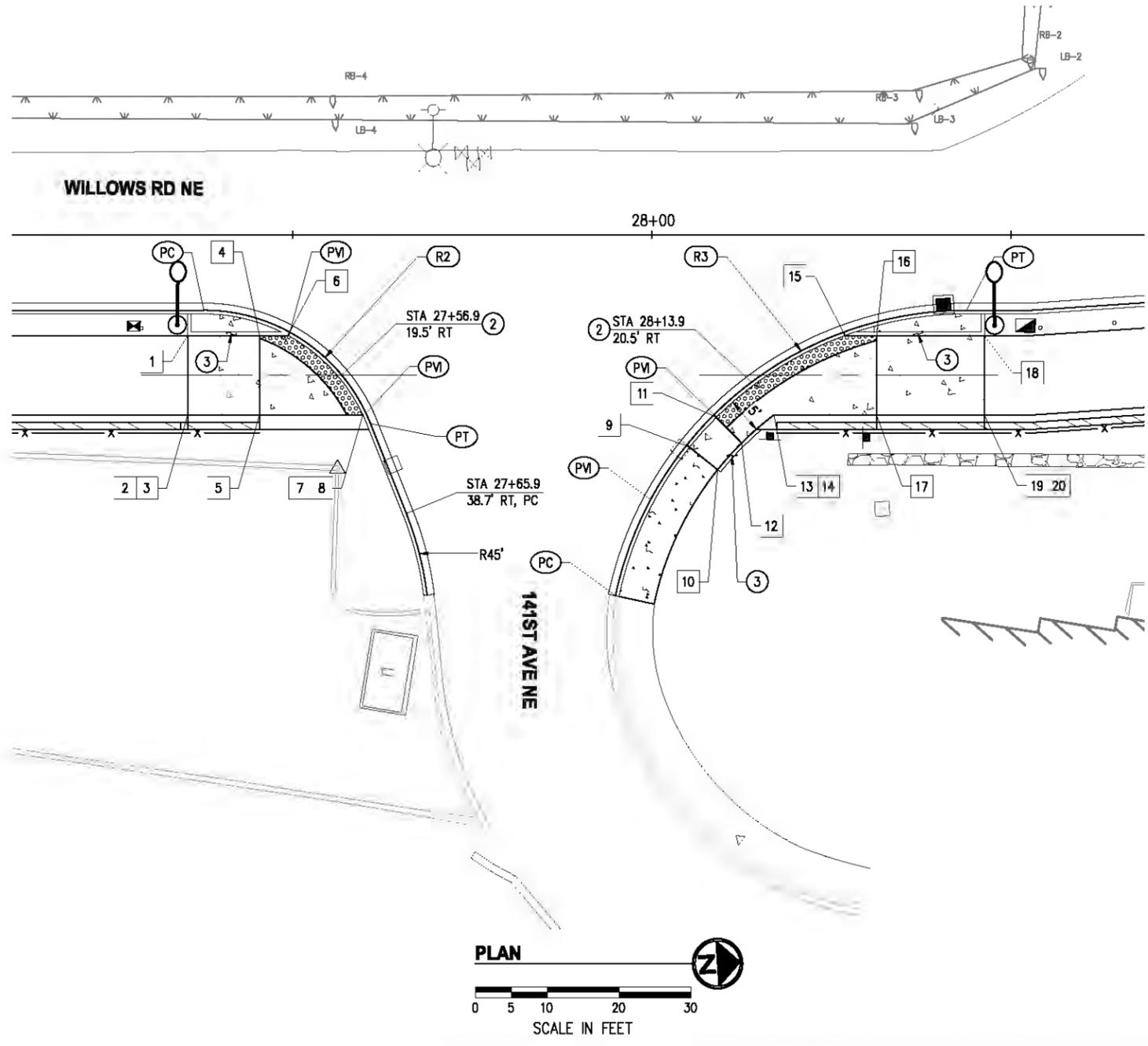


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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>APPR.</th> <th>REVISIONS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	BY	APPR.	REVISIONS																<p>Approved By</p> <table border="0" style="width:100%;"> <tr> <td>ENGINEERING MANAGER</td> <td>DATE</td> </tr> <tr> <td>PROJECT MANAGER</td> <td>DATE</td> </tr> <tr> <td>PROJECT ENGINEER</td> <td>DATE</td> </tr> </table>	ENGINEERING MANAGER	DATE	PROJECT MANAGER	DATE	PROJECT ENGINEER	DATE	<p>17132INT.dwg FILENAME</p> <table border="0" style="width:100%;"> <tr> <td>DESIGNED BY</td> <td>DATE</td> </tr> <tr> <td>DG</td> <td>12/2019</td> </tr> <tr> <td>DRAWN BY</td> <td>DATE</td> </tr> <tr> <td>EEO</td> <td>12/2019</td> </tr> <tr> <td>CHECKED BY</td> <td>DATE</td> </tr> </table>	DESIGNED BY	DATE	DG	12/2019	DRAWN BY	DATE	EEO	12/2019	CHECKED BY	DATE		<p>KPG Interdisciplinary Design TACOMA 2602 Jefferson Ave WA 98402 (253) 827 6720 www.kpg.com</p>	<p>BID DOCUMENT 01/03/20</p>	<p>CITY OF KIRKLAND WASHINGTON</p>	<p>CITY OF KIRKLAND CKC TO RCC REGIONAL CONNECTOR WILLOWS RD NE</p>	<p>INTERSECTION PLAN WILLOWS RD NE & NE 124TH ST</p>
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## CURVE DATA					
CURVE	DELTA	RAD	LEN	TAN	
R2	68°12'50"	25.00'	29.76'	16.93'	
PC	STA 27+37.7	10.5' RT	EL 58.79'		
PVI	STA 27+49.6	13.6' RT	EL 58.86'		
PVI	STA 27+60.2	24.8' RT	EL 58.61'		
PT	STA 27+60.9	26.2' RT	EL 58.51'		

## CURVE DATA					
CURVE	DELTA	RAD	LEN	TAN	
R3	78°00'00"	50.00'	68.07'	40.49'	
PC	STA 27+95.0	50.1' RT	EL+56.95'		
PVI	STA 27+99.9	36.8' RT	EL 58.35'		
PVI	STA 28+08.7	25.0' RT	EL 59.37'		
PT	STA 28+43.9	10.5' RT	EL 60.09'		



GENERAL NOTES

- CURB RAMP LOCATION SHOWN IS RAMP CENTER AT FACE OF CURB.
- ALL RAMP AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS, OR TO MAXIMUM EXTENT FEASIBLE (MEF) WHERE NOTED. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR WHEN FORMS ARE SET AND WHEN CONCRETE IS POURED. ANY GRADING MODIFICATIONS REQUIRED FOR COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
- SEE SHEET 4 FOR TYPICAL SECTIONS & PAVEMENT DEPTHS. SEE ROADWAY SHEETS 16-20 FOR MAINLINE HORIZONTAL/VERTICAL GEOMETRY.
- FINAL RESTORATION AT BACK OF WALK SHALL BE PER ROADWAY SHEETS 16-20, WALL SHEETS 26-37, AND LANDSCAPE SHEETS 44-47, TO THE LIMITS DEFINED ON SITE PREPARATION SHEETS 7-9.

CONSTRUCTION NOTES

- PERPENDICULAR CURB RAMP PER WSDOT STD PLAN F-40.15, OVER 4" CSTC
- SINGLE DIRECTION CURB RAMP PER WSDOT STD PLAN F-40.16, OVER 4" CSTC
- PEDESTRIAN CURB PER C.O.K. STD PLAN CK-R.17A

## POINT TABLE				
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
1	27+35.4	14.0' RT	59.25	TOP OF RAMP
2	27+35.4	25.0' RT	59.42	TOP OF SHOULDER
3	27+35.4	25.0' RT	59.42	TDP OF RAMP
4	27+45.4	14.0' RT	58.88	LANDING CORNER
5	27+45.4	25.0' RT	58.77	LANDING CORNER
6	27+49.4	14.0' RT	58.86	LANDING CORNER
7	27+59.8	25.0' RT	59.11	TOP OF SHOULDER
8	27+59.8	25.0' RT	58.61	LANDING CORNER
9	28+05.3	29.5' RT	59.48	TOP OF RAMP
10	28+09.2	32.6' RT	59.56	TOP OF RAMP
11	28+09.0	25.4' RT	59.37	LANDING CORNER
12	28+12.5	28.9' RT	59.42	LANDING CORNER
13	28+17.0	25.0' RT	59.50	LANDING CORNER
14	28+17.0	25.0' RT	60.00	TOP OF SHOULDER
15	28+26.9	14.0' RT	59.77	LANDING CORNER
16	28+31.3	14.0' RT	59.79	LANDING CORNER
17	28+31.3	25.0' RT	59.68	LANDING CORNER
18	28+46.3	14.0' RT	60.62	TOP OF RAMP
19	28+46.3	25.0' RT	60.79	TOP OF RAMP
20	28+46.3	25.0' RT	60.79	TOP OF SHOULDER

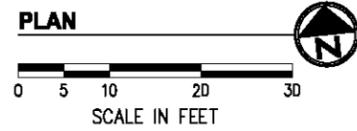
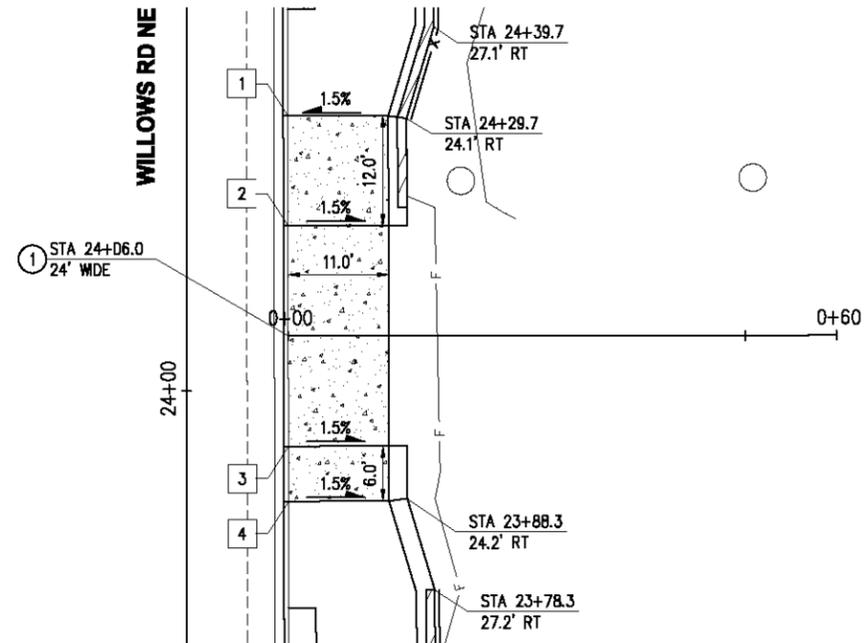
LEGEND

- CURB & GUTTER PER C.O.K. STD PLAN CK-R.17, FLOWLINE LOCATIONS NOTED
- CEMENT CONC. SIDEWALK PER C.O.K. STD PLAN CK-R.23, OVER 4" CSTC
- CEMENT CONC. CURB RAMP, AS NOTED
- DETECTABLE WARNING SURFACE PER C.O.K. STD PLAN CK-R.25B
- PEDESTRIAN PUSH BUTTON & POLE, SEE SHEET 38
- STORM STRUCTURE, SEE SHEETS 10-14
- LUMINAIRE & EQUIPMENT, SEE SHEETS 38-42
- SIGN, SEE SHEETS 48-50

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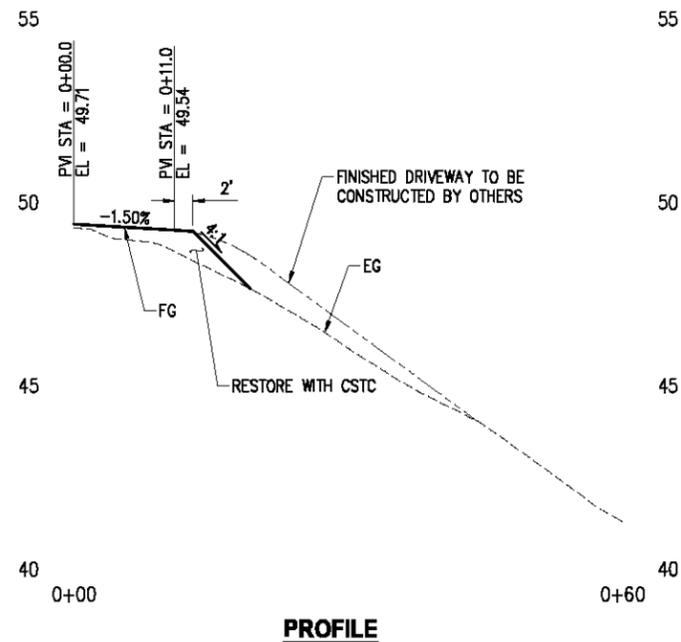
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2	24+18.0	11.1' RT	49.89	BOTTOM OF RAMP
3	23+94.0	11.2' RT	49.53	BOTTOM OF RAMP
4	23+88.0	11.2' RT	49.79	TOP OF RAMP

GENERAL NOTES

- EMBANKMENT CONSTRUCTION UNDER DRIVEWAYS SHALL BE GRAVEL BORROW.

CONSTRUCTION NOTES

- CEMENT CONC. DRIVEWAY APPROACH TYPE 1 PER WSDOT STD PLAN F-80.10, OVER 4" CSTC; ENTRANCE SHALL BE REVERSE-SLOPED AT 1.5% CROSS SLOPE WITH 0.15' LIP AT FLOWLINE. THROAT WIDTH AND CENTERLINE LOCATION AS NOTED.
- EXTRUDED CEMENT CONC. CURB PER C.O.K. STD PLAN CK-R.19.
- REMOVE & REPLACE CEMENT CONC. CURB WITH INTEGRATED LIGHTING PER SPECIAL PROVISIONS SECTION 8-04.



LEGEND

- SAWCUT PER SITE PREPARATION PLAN SHEETS 7-9
- ==== EXTRUDED CURB, AS NOTED
- [Pattern] ASPHALT DRIVEWAY, 3" COMMERCIAL HMA OVER 2" CSTC
- [Pattern] CEMENT CONC. DRIVEWAY ENTRANCE, AS NOTED
- - - F - - - APPROXIMATE FILL CATCH LINE

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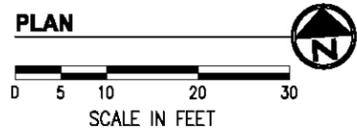
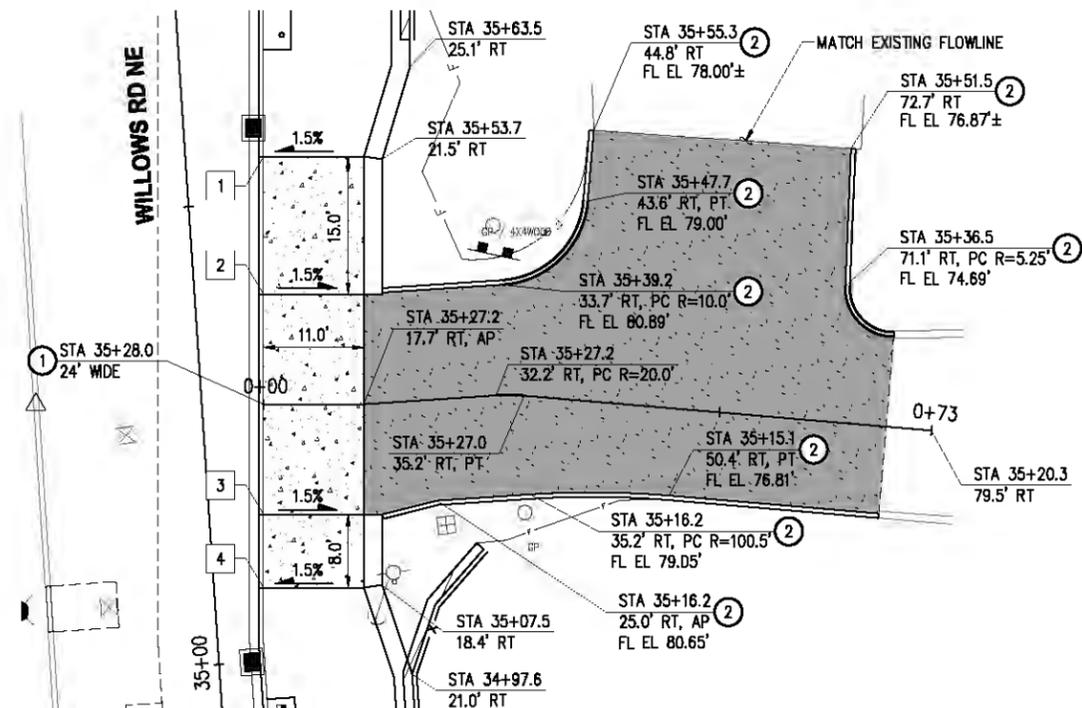
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CITY OF KIRKLAND
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WILLOWS RD NE

DRIVEWAY PLAN & PROFILE WILLOWS RD NE DRIVEWAY 1		
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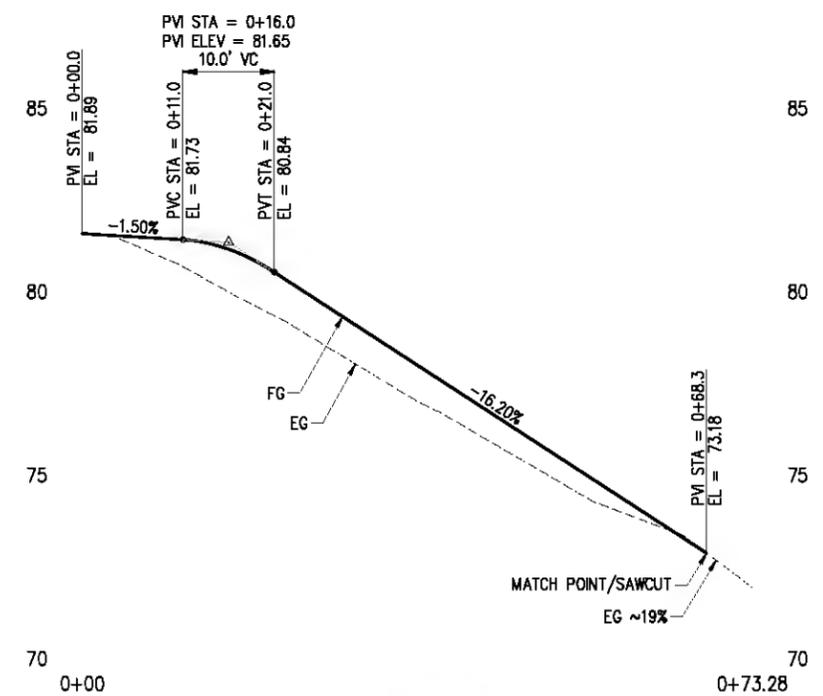
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1	35+54.9	8.5' RT	83.51	TOP OF RAMP
2	35+39.9	7.5' RT	82.42	BOTTOM OF RAMP
3	35+16.0	5.9' RT	81.43	BOTTOM OF RAMP
4	35+08.0	5.4' RT	81.50	TOP OF RAMP

GENERAL NOTES

- 1. EMBANKMENT CONSTRUCTION UNDER DRIVEWAYS SHALL BE GRAVEL BORROW.

CONSTRUCTION NOTES

- 1. CEMENT CONC. DRIVEWAY APPROACH TYPE 1 PER WSDOT STD PLAN F-80.10, OVER 4" CSTC; ENTRANCE SHALL BE REVERSE-SLOPED AT 1.5% CROSS SLOPE WITH 0.15' LIP AT FLOWLINE. THROAT WIDTH AND CENTERLINE LOCATION AS NOTED.
- 2. EXTRUDED CEMENT CONC. CURB PER C.O.K. STD PLAN CK-R.19.
- 3. REMOVE & REPLACE CEMENT CONC. CURB WITH INTEGRATED LIGHTING PER SPECIAL PROVISIONS SECTION 8-04.



PROFILE

LEGEND

- SAWCUT PER SITE PREPARATION PLAN SHEETS 7-9
- ==== EXTRUDED CURB, AS NOTED
- ASPHALT DRIVEWAY, 3" COMMERCIAL HMA OVER 2" CSTC
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- - - APPROXIMATE FILL CATCH LINE

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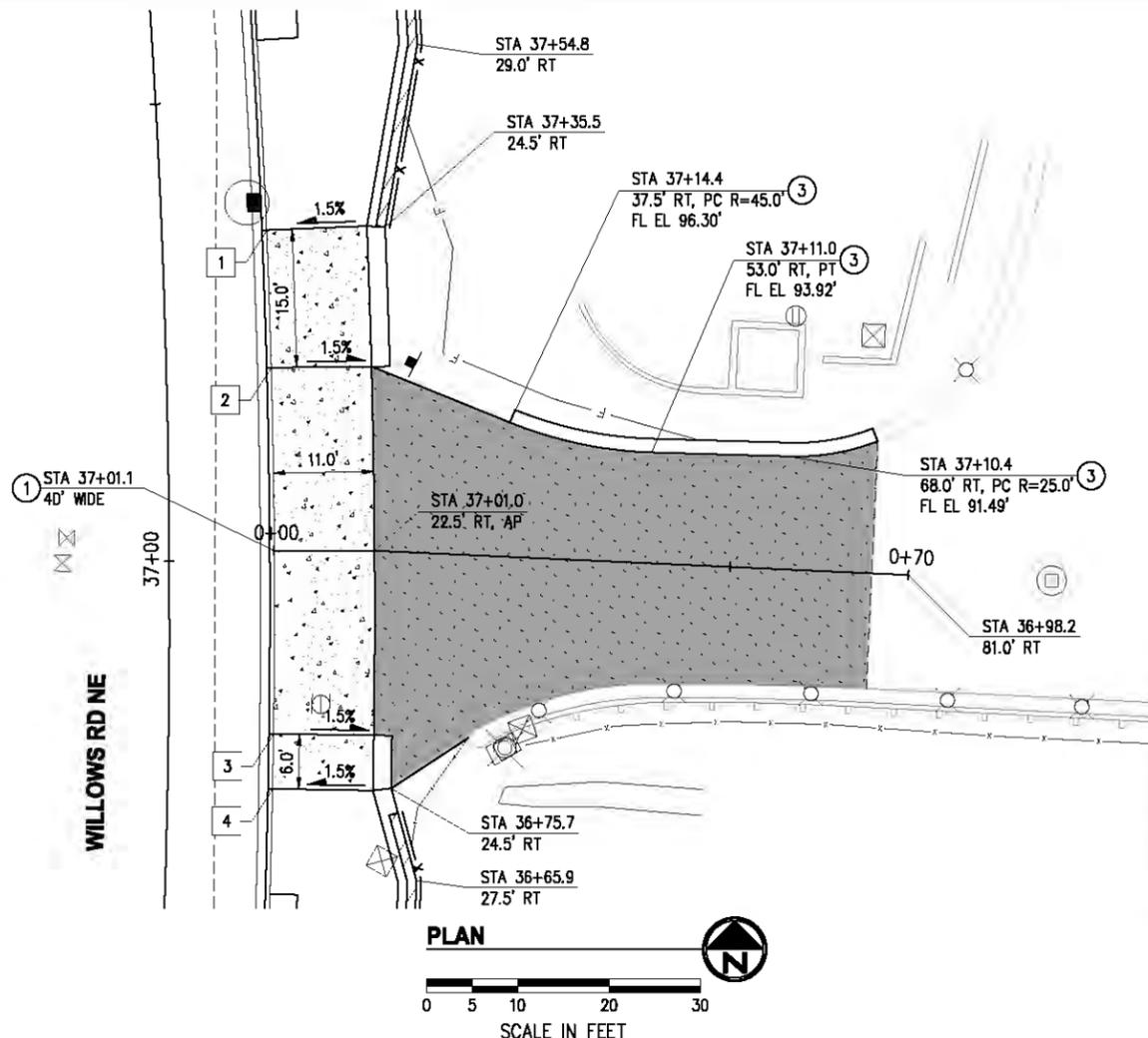
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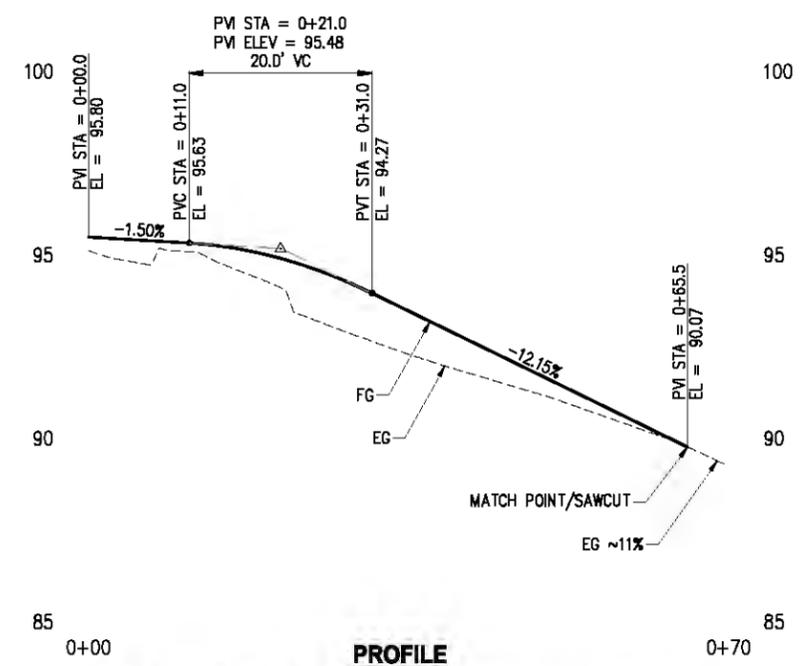
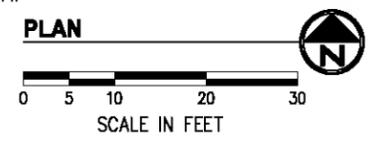
CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

DRIVEWAY PLAN & PROFILE
WILLOWS RD NE
DRIVEWAY 2
KPG PROJECT No. 17132 | SHT 24 OF 53

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POINT TABLE				
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
1	37+35.7	11.5' RT	100.40	TOP OF RAMP
2	37+20.9	11.5' RT	98.23	BOTTOM OF RAMP
3	36+81.3	11.5' RT	93.36	BOTTOM OF RAMP
4	36+75.4	11.5' RT	92.99	TOP OF RAMP



GENERAL NOTES

1. EMBANKMENT CONSTRUCTION UNDER DRIVEWAYS SHALL BE GRAVEL BORROW.

CONSTRUCTION NOTES

- 1 CEMENT CONC. DRIVEWAY APPROACH TYPE 1 PER WSDOT STD PLAN F-80.10, OVER 4" CSTC; ENTRANCE SHALL BE REVERSE-SLOPED AT 1.5% CROSS SLOPE WITH 0.15' LIP AT FLOWLINE. THROAT WIDTH AND CENTERLINE LOCATION AS NOTED.
- 2 EXTRUDED CEMENT CONC. CURB PER C.O.K. STD PLAN CK-R.19.
- 3 REMOVE & REPLACE CEMENT CONC. CURB WITH INTEGRATED LIGHTING PER SPECIAL PROVISIONS SECTION 8-04.

LEGEND

- SAWCUT PER SITE PREPARATION PLAN SHEETS 7-9
- ==== EXTRUDED CURB, AS NOTED
- ASPHALT DRIVEWAY, 3" COMMERCIAL HMA OVER 2" CSTC
- CEMENT CONC. DRIVEWAY ENTRANCE, AS NOTED
- - - - APPROXIMATE FILL CATCH LINE

NO.	DATE	BY	APPR.	REVISIONS

Approved By		FILENAME
ENGINEERING MANAGER	DATE	17132DWY.dwg
PROJECT MANAGER	DATE	DESIGNED BY DATE
PROJECT ENGINEER	DATE	DCG 12/2019
		DCG 12/2019
		EEO 12/2019
		CHECKED BY DATE



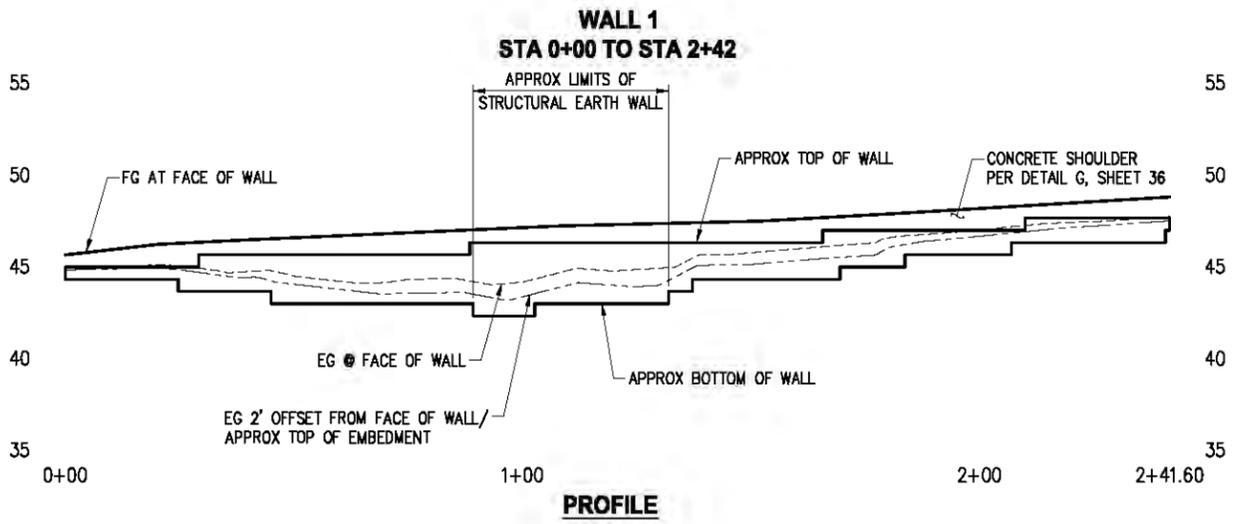
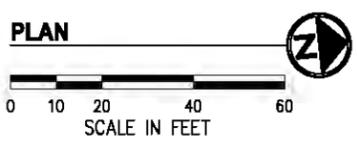
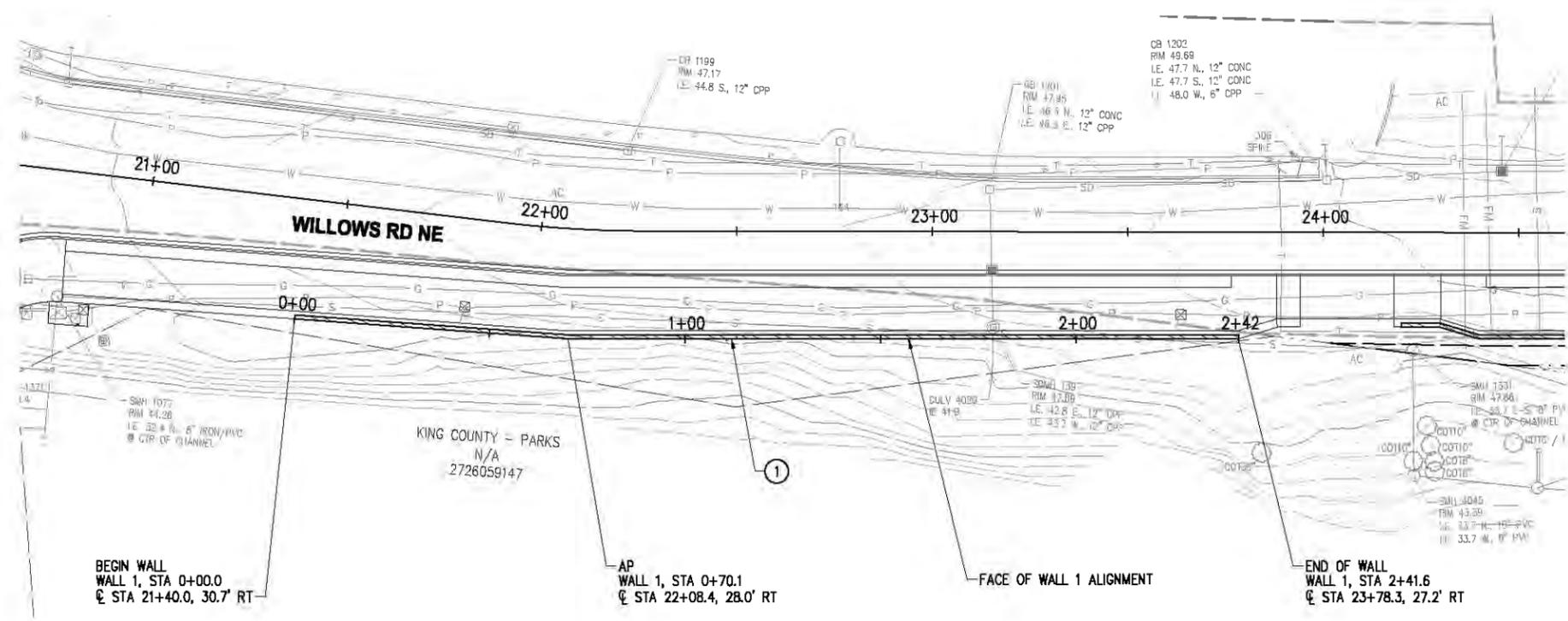
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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

DRIVEWAY PLAN & PROFILE
WILLOWS RD NE
DRIVEWAY 3
KPG PROJECT No. 17132 SHT 25 OF 53



GENERAL NOTES

- ELEVATIONS HAVE BEEN PROVIDED FOR USE AS A GUIDE FOR CONSTRUCTION. THE RETAINING WALL SHALL BE CONSTRUCTED PER TYPICAL SECTIONS, DETAILS, AND MANUFACTURER'S RECOMMENDATIONS EXCEPT AS ADJUSTED IN THE FIELD BY THE ENGINEER.
- SEE DETAIL 3, SHEET 30 FOR CONCRETE SHOULDER AND WALL INSTALLATION AT FENCE POST LOCATIONS.

CONSTRUCTION NOTES

- BLOCK WALL PER DETAIL 1, SHEET 30.

LEGEND

- BLOCK WALL
- SOLDIER PILE WALL, SEE SHEETS 31-37

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NO.	DATE	BY	APPR.	REVISIONS

Approved By		17132WALL.dwg
ENGINEERING MANAGER	DATE	FILENAME
PROJECT MANAGER	DATE	DESIGNED BY
PROJECT ENGINEER	DATE	DRAWN BY
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		DATE



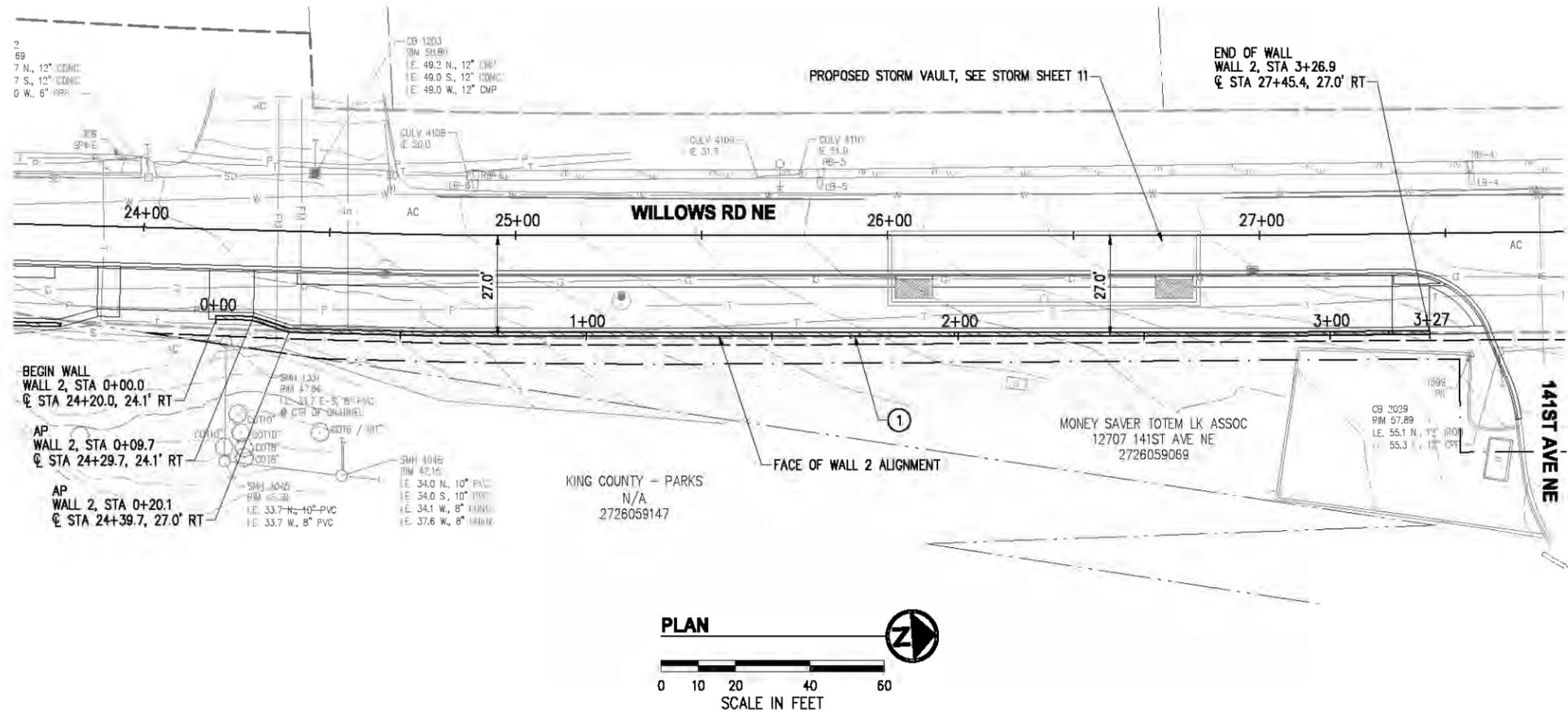
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CITY OF KIRKLAND
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WILLOWS RD NE

WALL PLAN & PROFILE
WILLOWS RD NE
WALL 1
KPG PROJECT No. 17132 SHT 26 OF 53

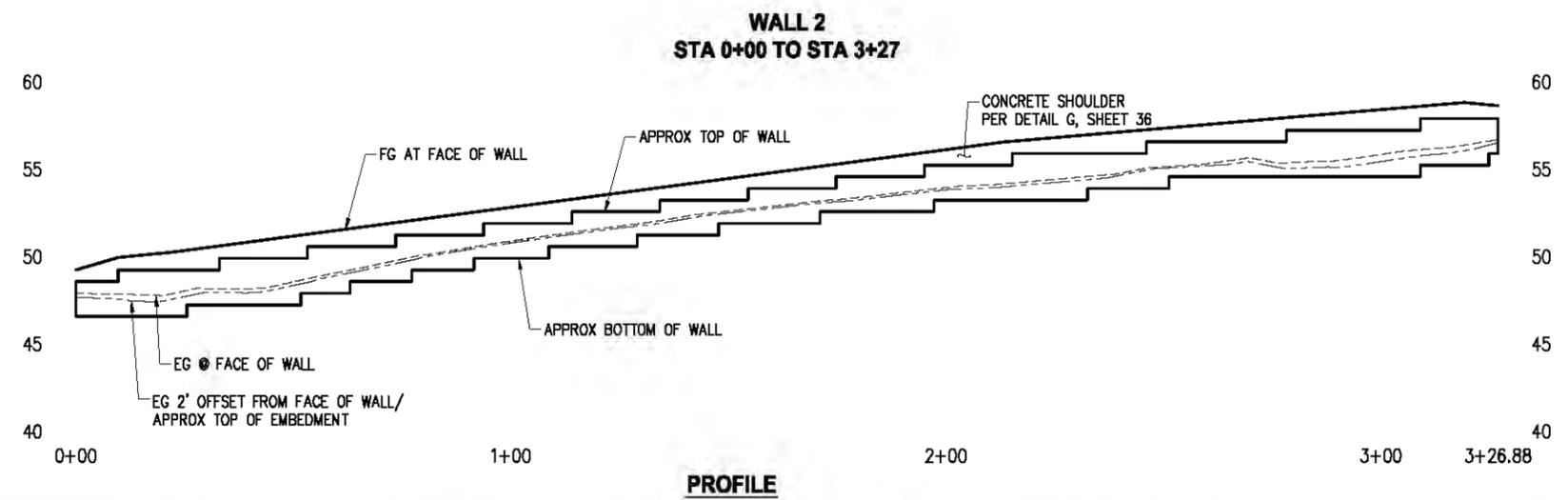


GENERAL NOTES

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CONSTRUCTION NOTES

- BLOCK WALL PER DETAIL 1, SHEET 30.



LEGEND

- BLOCK WALL
- SOLDIER PILE WALL, SEE SHEETS 31-37

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NO.	DATE	BY	APPR.	REVISIONS

Approved By		17132WALL.dwg
ENGINEERING MANAGER	DATE	FILENAME
PROJECT MANAGER	DATE	DESIGNED BY
PROJECT ENGINEER	DATE	DATE
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		DATE



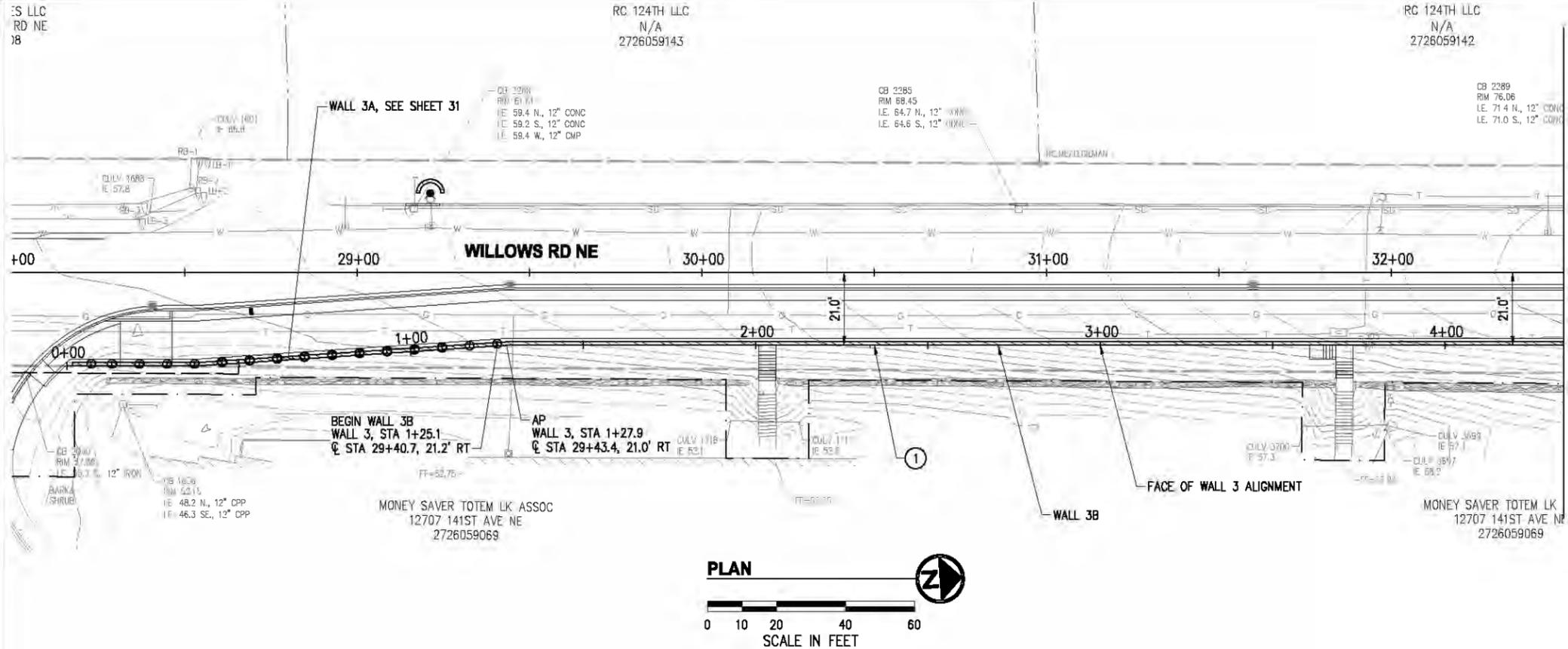
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CITY OF KIRKLAND
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WILLOWS RD NE

WALL PLAN & PROFILE
WILLOWS RD NE
WALL 2
KPG PROJECT No. 17132 SHT 27 OF 53



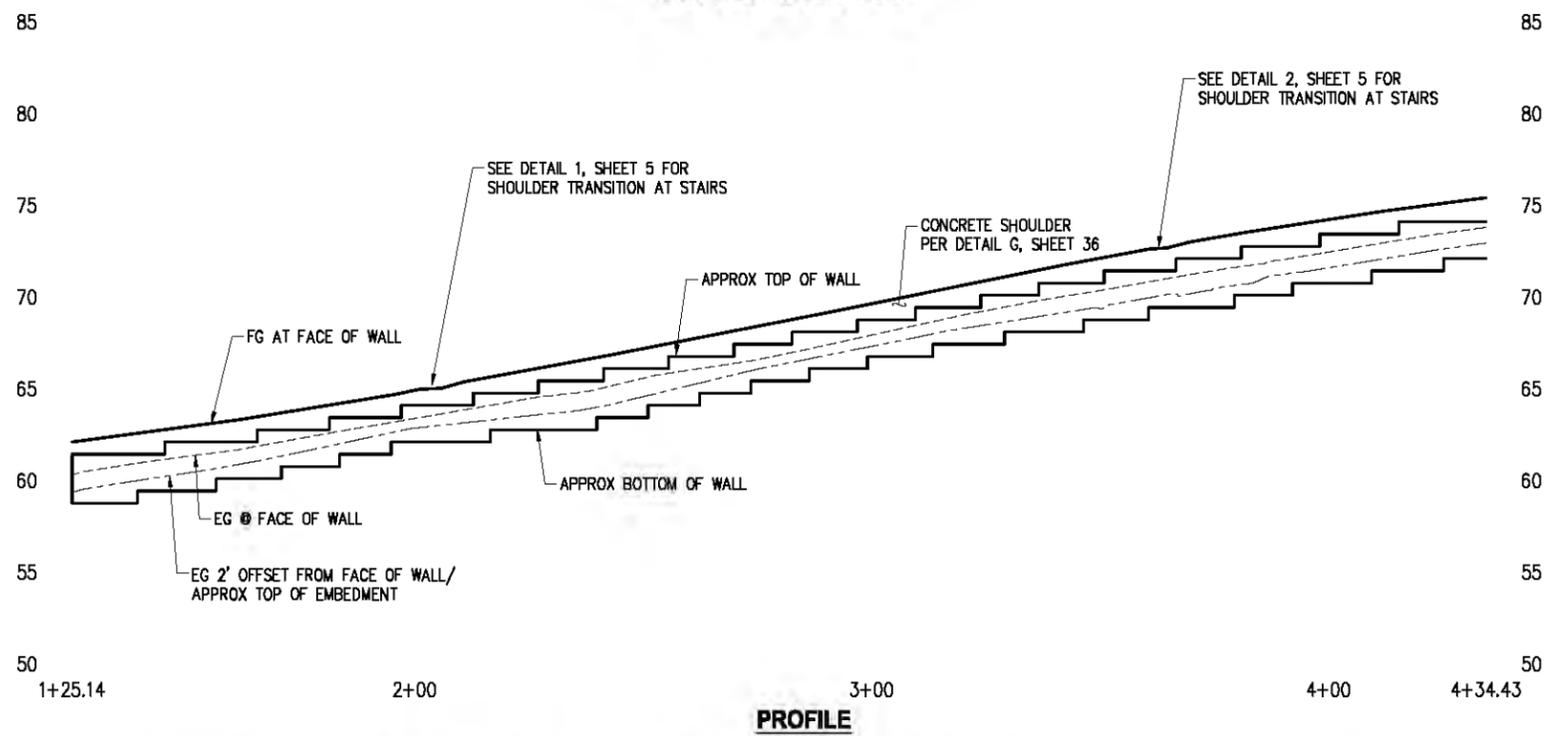
GENERAL NOTES

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- SEE DETAIL 3, SHEET 30 FOR CONCRETE SHOULDER AND WALL INSTALLATION AT FENCE POST LOCATIONS.

CONSTRUCTION NOTES

- BLOCK WALL PER DETAIL 1, SHEET 30.

**WALL 3B
STA 1+25 TO STA 4+34**



LEGEND

- BLOCK WALL
- SOLDIER PILE WALL, SEE SHEETS 31-37

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NO.	DATE	BY	APPR.	REVISIONS

Approved By		17132WALL.dwg
ENGINEERING MANAGER	DATE	FILENAME
PROJECT MANAGER	DATE	DESIGNED BY
PROJECT ENGINEER	DATE	DATE
		DRAWN BY
		DATE
		EEO
		12/2019
		CHECKED BY
		DATE



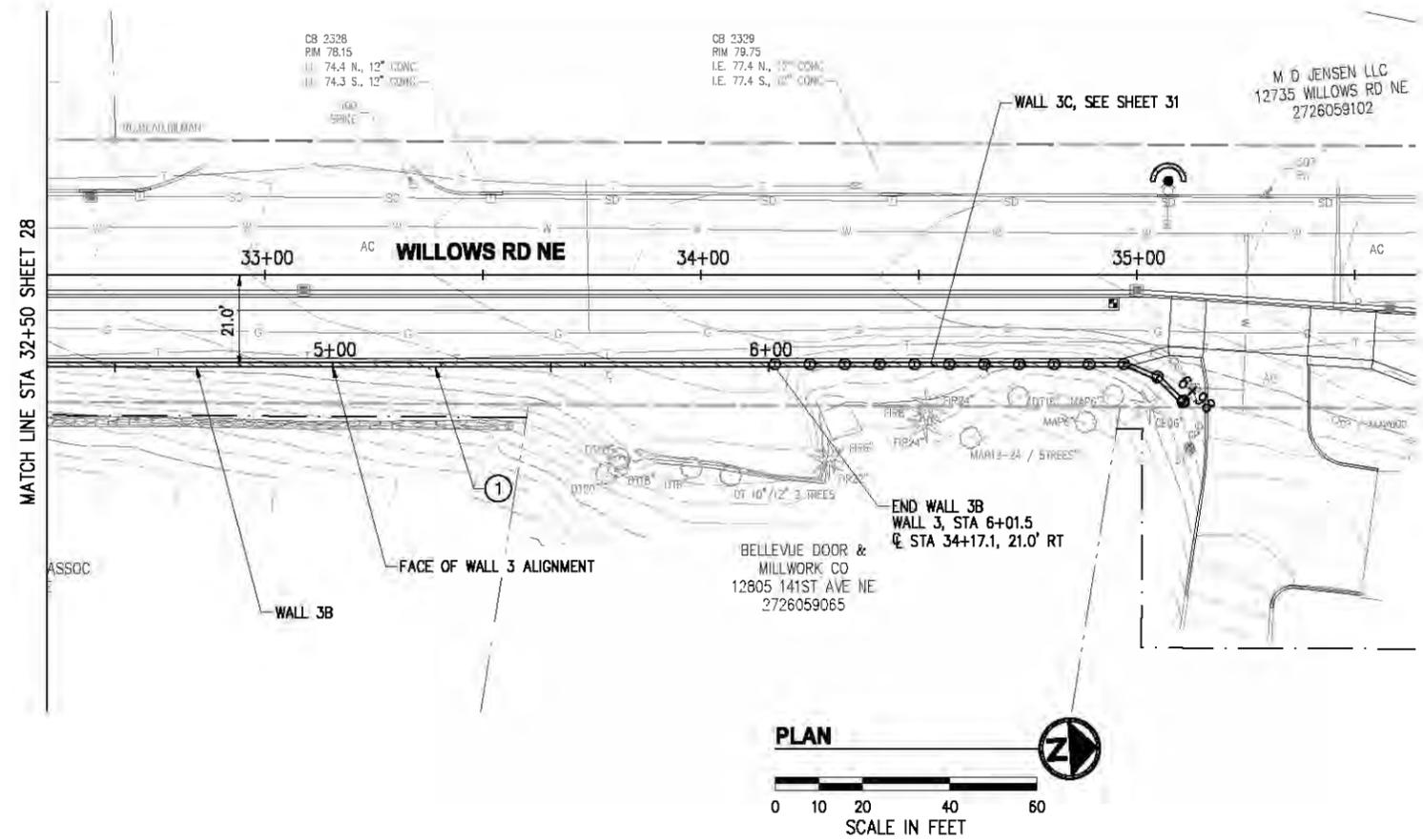
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**CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE**

**WALL PLAN & PROFILE
WILLOWS RD NE
WALL 3B**
KPG PROJECT No. 17132 | SHT 28 OF 53

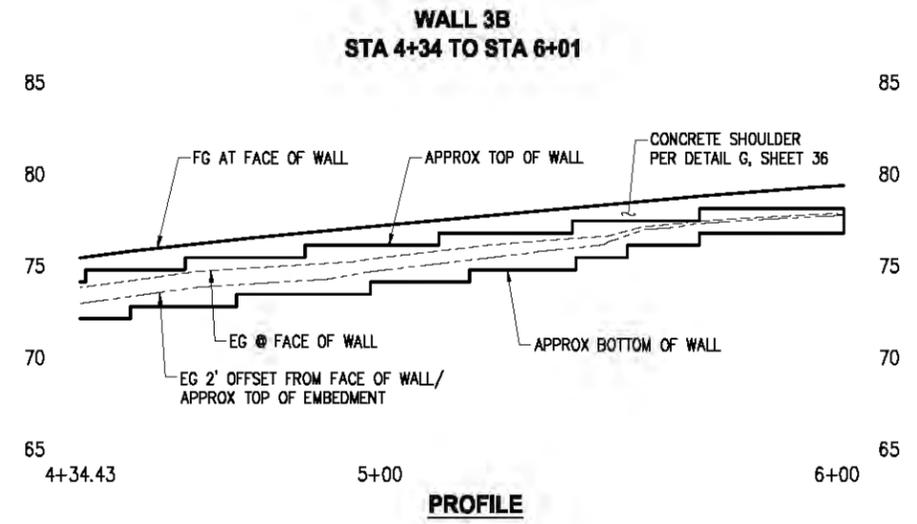


GENERAL NOTES

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CONSTRUCTION NOTES

- BLOCK WALL PER DETAIL 1, SHEET 30.



LEGEND

- BLOCK WALL
- SOLDIER PILE WALL, SEE SHEETS 31-37

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NO.	DATE	BY	APPR.	REVISIONS

Approved By		17132WALL.dwg
ENGINEERING MANAGER	DATE	FILENAME
PROJECT MANAGER	DATE	DESIGNED BY
PROJECT ENGINEER	DATE	DATE
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		DATE



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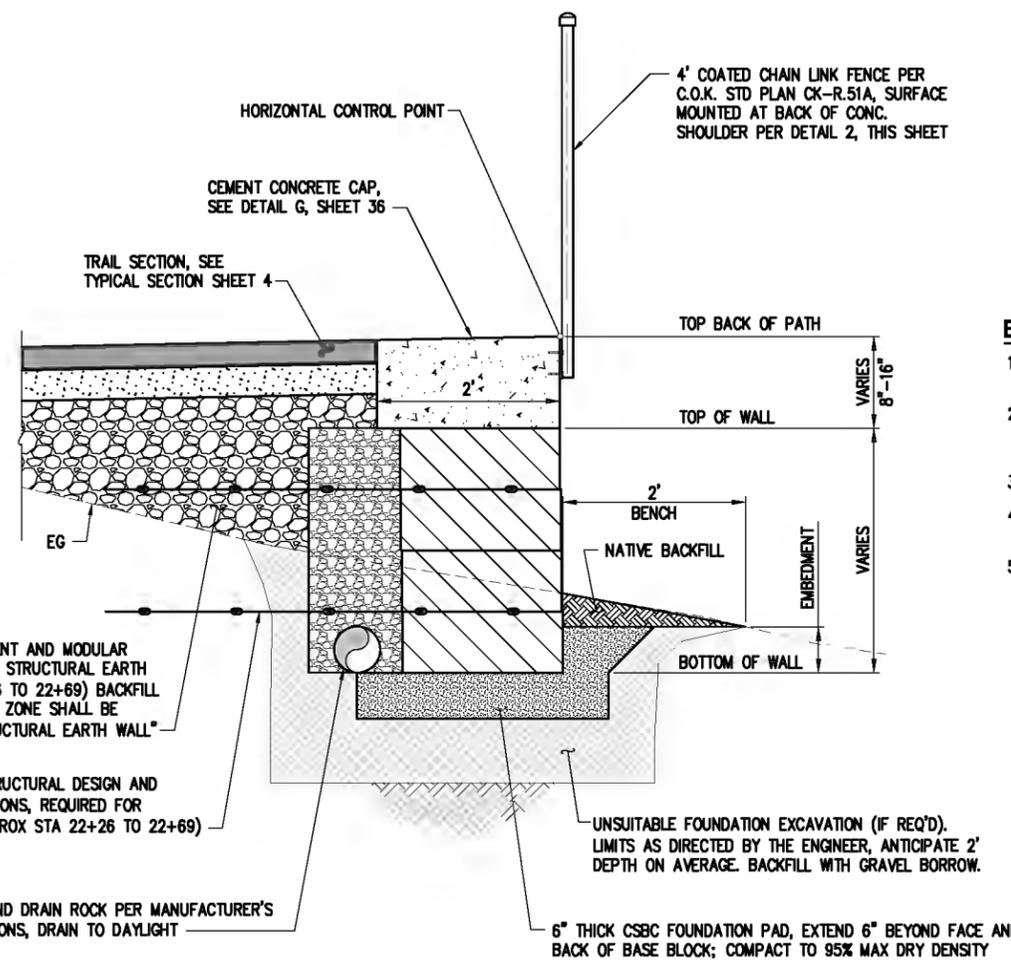
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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

WALL PLAN & PROFILE
WILLOWS RD NE
WALL 3B
KPG PROJECT No. 17132 SHT 29 OF 53

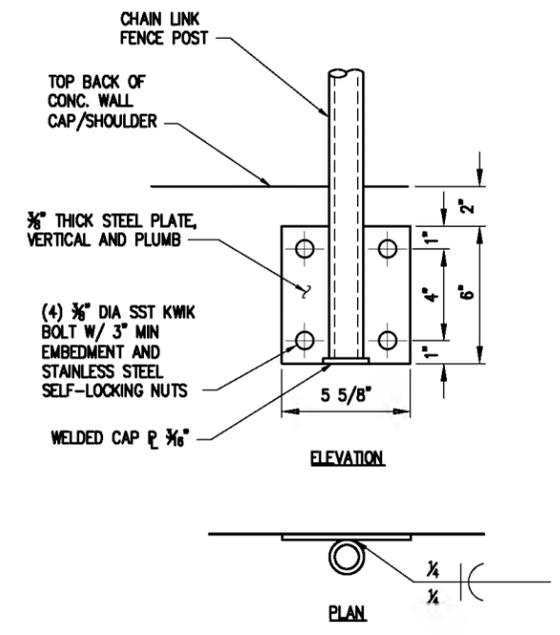
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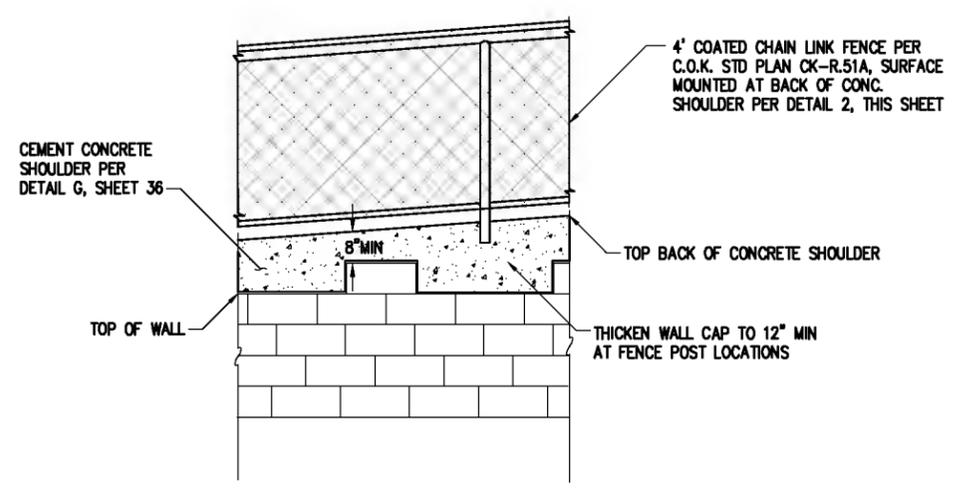
MODULAR BLOCK FILL WALL DETAIL 1
NTS

BLOCK WALL GENERAL NOTES

1. SEE WALL PLAN SHEETS 26-29 FOR WALL LOCATIONS; STA/OFF CALLOUTS ARE TO HORIZONTAL CONTROL POINT SHOWN.
2. CONTRACTOR SHALL PROTECT EXISTING UTILITIES WHILE EXCAVATING FOR WALL. THIS MAY REQUIRE TEMPORARY SHORING DEPENDING ON THE CONSTRUCTION METHODS EMPLOYED BY THE CONTRACTOR.
3. EMBEDMENT SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
4. MAX PAY LIMIT FOR BLOCK WALLS SHALL BE TOP OF WALL TO 12" MAX EMBEDMENT.
5. BLOCK WALL SHALL BE STRAIGHT-FACED 21" KEYSTONE STANDARD BLOCKS, NEAR VERTICAL, OR APPROVED EQUAL. BLOCKS SHALL BE A COLOR FROM MANUFACTURER'S STANDARD COLORS; COLOR AND FINISH SHALL BE AS APPROVED BY THE OWNER. UNIT CORE FILL PER MANUFACTURER'S REQUIREMENTS.



CHAIN LINK FENCE SURFACE MOUNT DETAIL 2
NTS



RETAINING FILL WALL FACE DETAIL 3
NTS

NO.	DATE	BY	APPR.	REVISIONS

Approved By		FILENAME
ENGINEERING MANAGER	DATE	17132DET01.dwg
PROJECT MANAGER	DATE	EEO 12/2019
PROJECT ENGINEER	DATE	DESIGNED BY 12/2019
		DC 12/2019
		DRAWN BY 12/2019
		EEO 12/2019
		CHECKED BY 12/2019



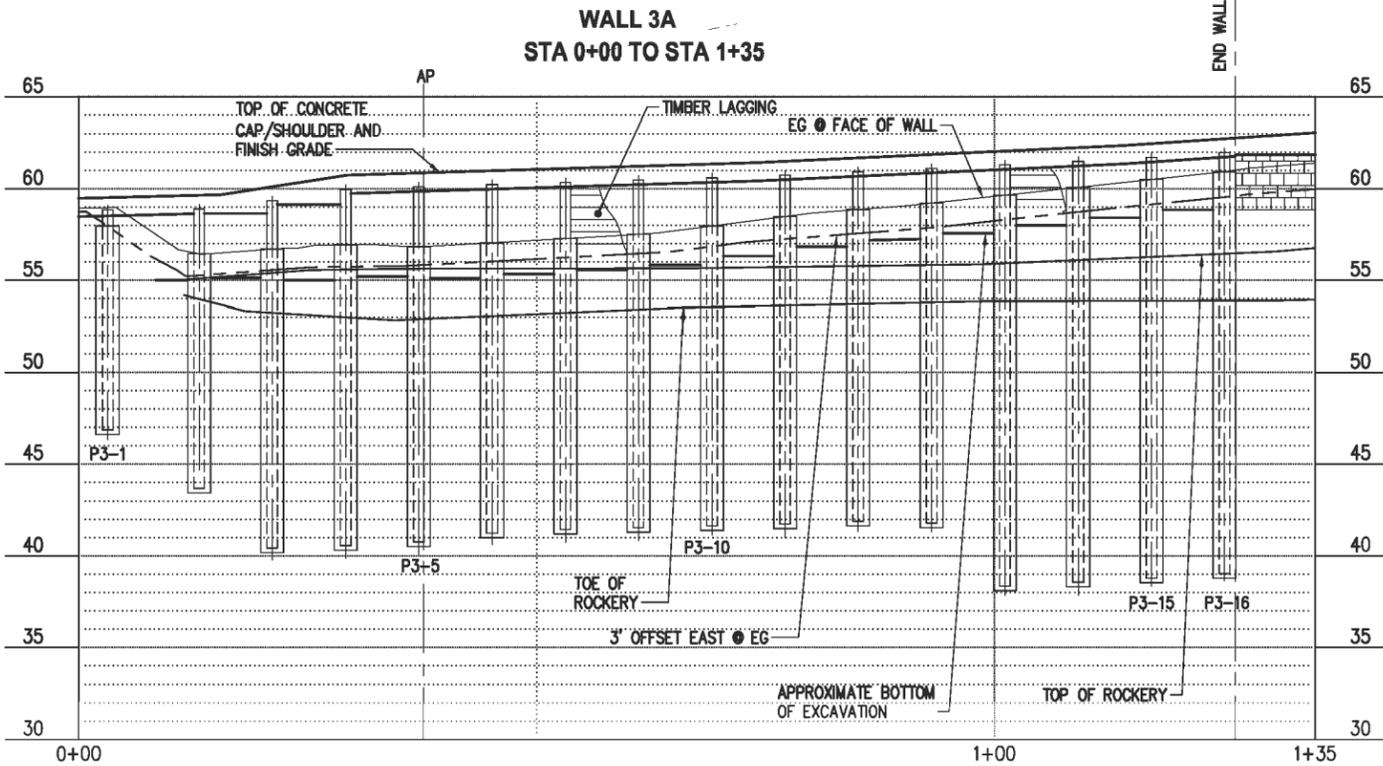
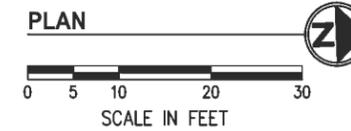
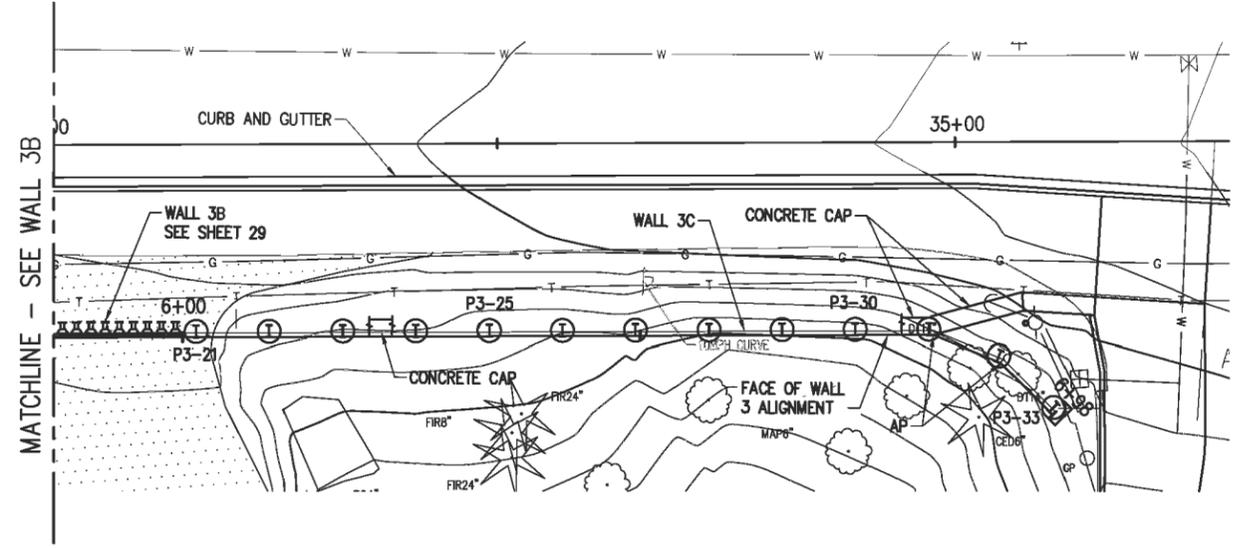
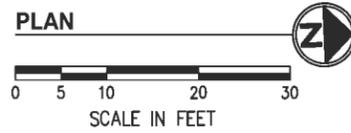
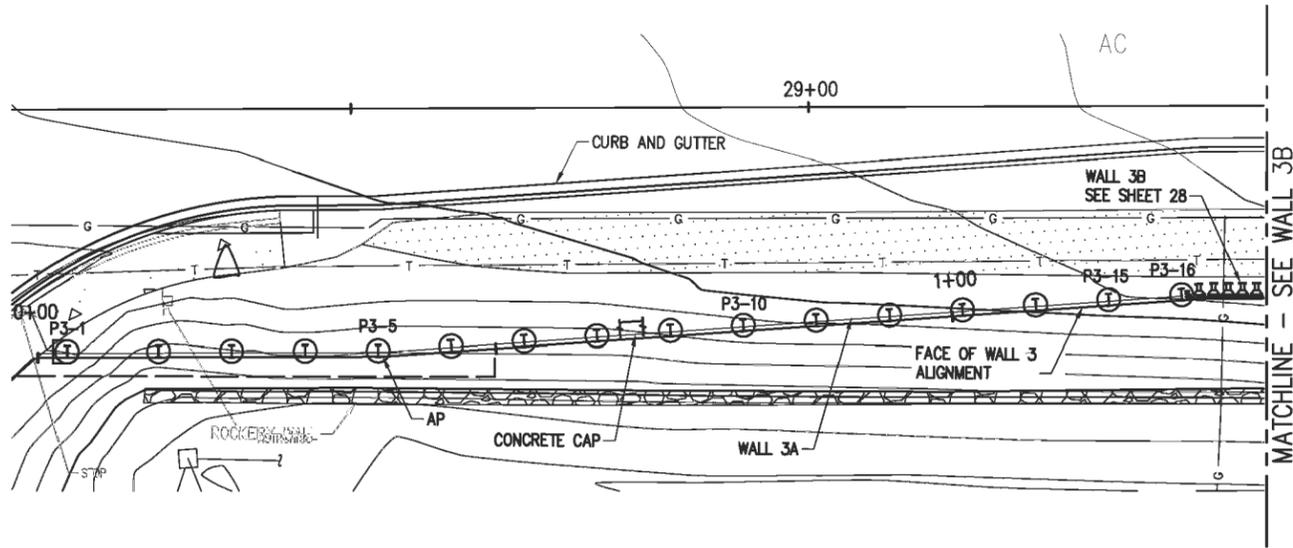
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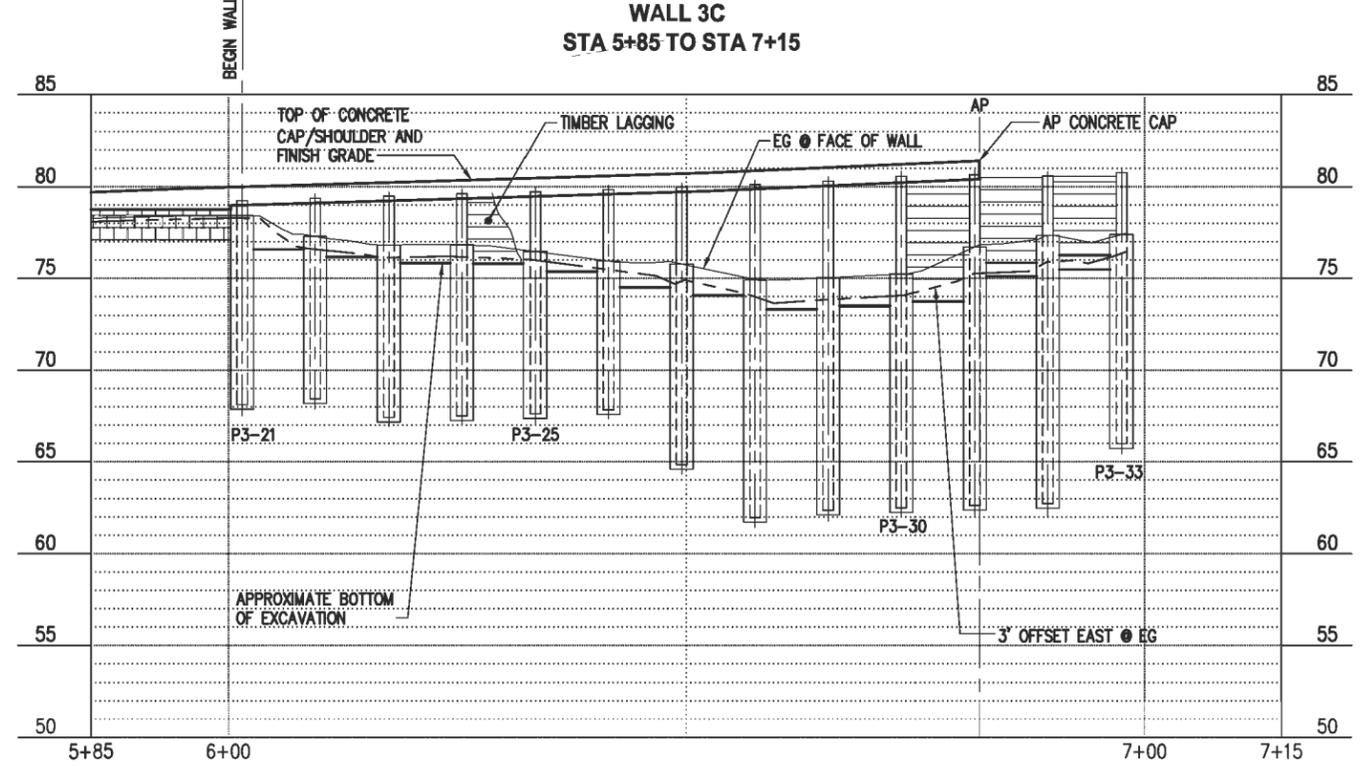


CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

TYPICAL DETAILS
KPG PROJECT No. 17132 SHT 30 OF 53



PROFILE
HOR: 1"=10' VER: 1"=5'



PROFILE
HOR: 1"=10' VER: 1"=5'

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NO.	DATE	BY	APPR.	REVISIONS

Approved By		17132-STRUCT.dwg	
ENGINEERING MANAGER	DATE	FILENAME	12/12/19
PROJECT MANAGER	DATE	DESIGNED BY	A. BRIGHT
PROJECT ENGINEER	DATE	DATE	12/12/19
		DRAWN BY	A. SOTILLO
		DATE	12/12/19
		CHECKED BY	I. KEDA
		DATE	12/12/19



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FAX: (206) 825-1651

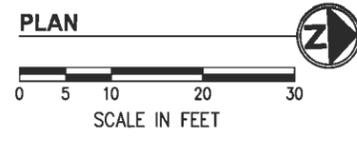
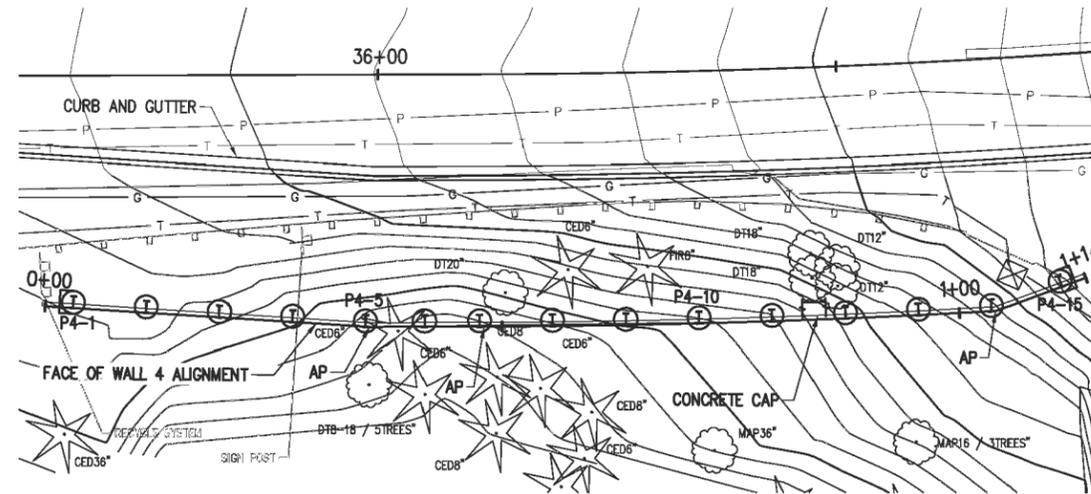
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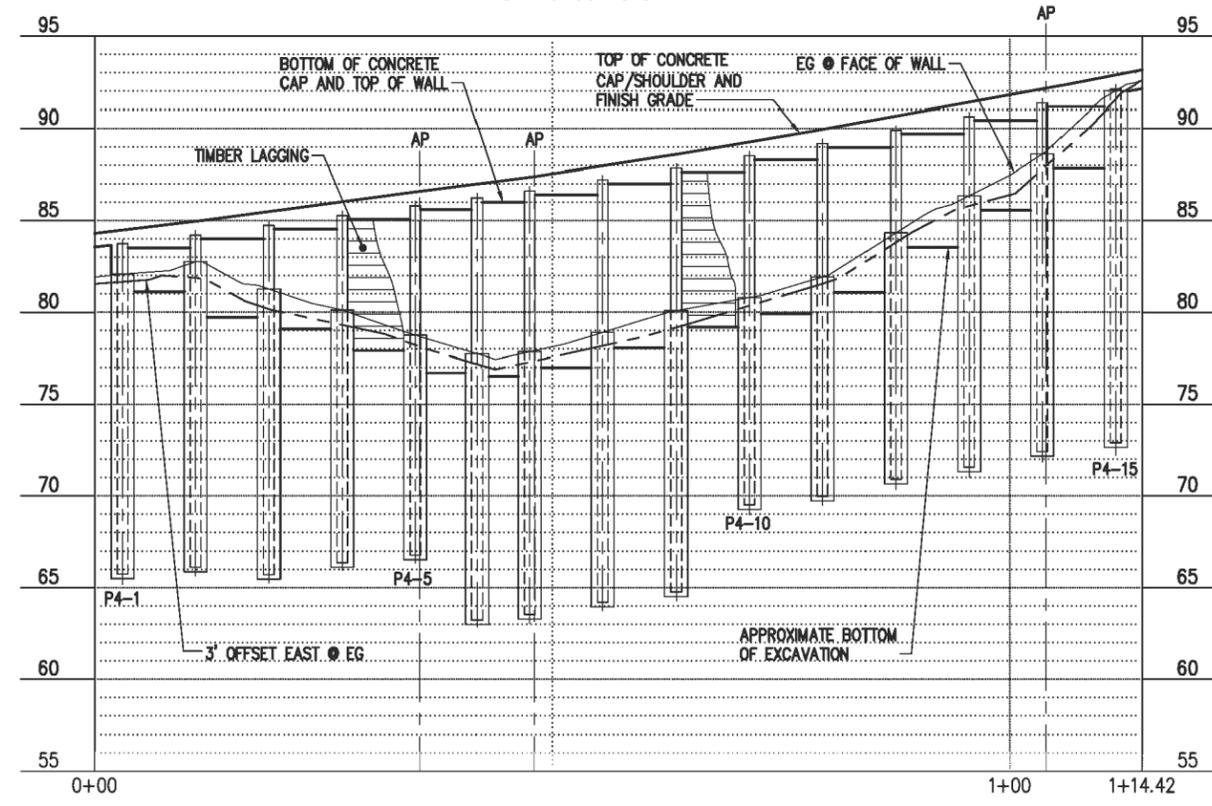
CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

PLAN AND PROFILE WALLS 3A AND 3C	
KPG PROJECT No. 17132	SHT 31 OF 53

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**WALL 4
STA 0+00 TO STA 1+14**



PROFILE
HOR: 1"=10' VER: 1"=5'

NO.	DATE	BY	APPR.	REVISIONS

Approved By		17132-STRUCT.dwg	
ENGINEERING MANAGER	DATE	FILENAME	12/12/19
PROJECT MANAGER	DATE	DESIGNED BY	A. BRIGHT
PROJECT ENGINEER	DATE	DATE	12/12/19
		DRAWN BY	A. SOTILLO
		DATE	12/12/19
		CHECKED BY	I. IKEDA
		DATE	12/12/19



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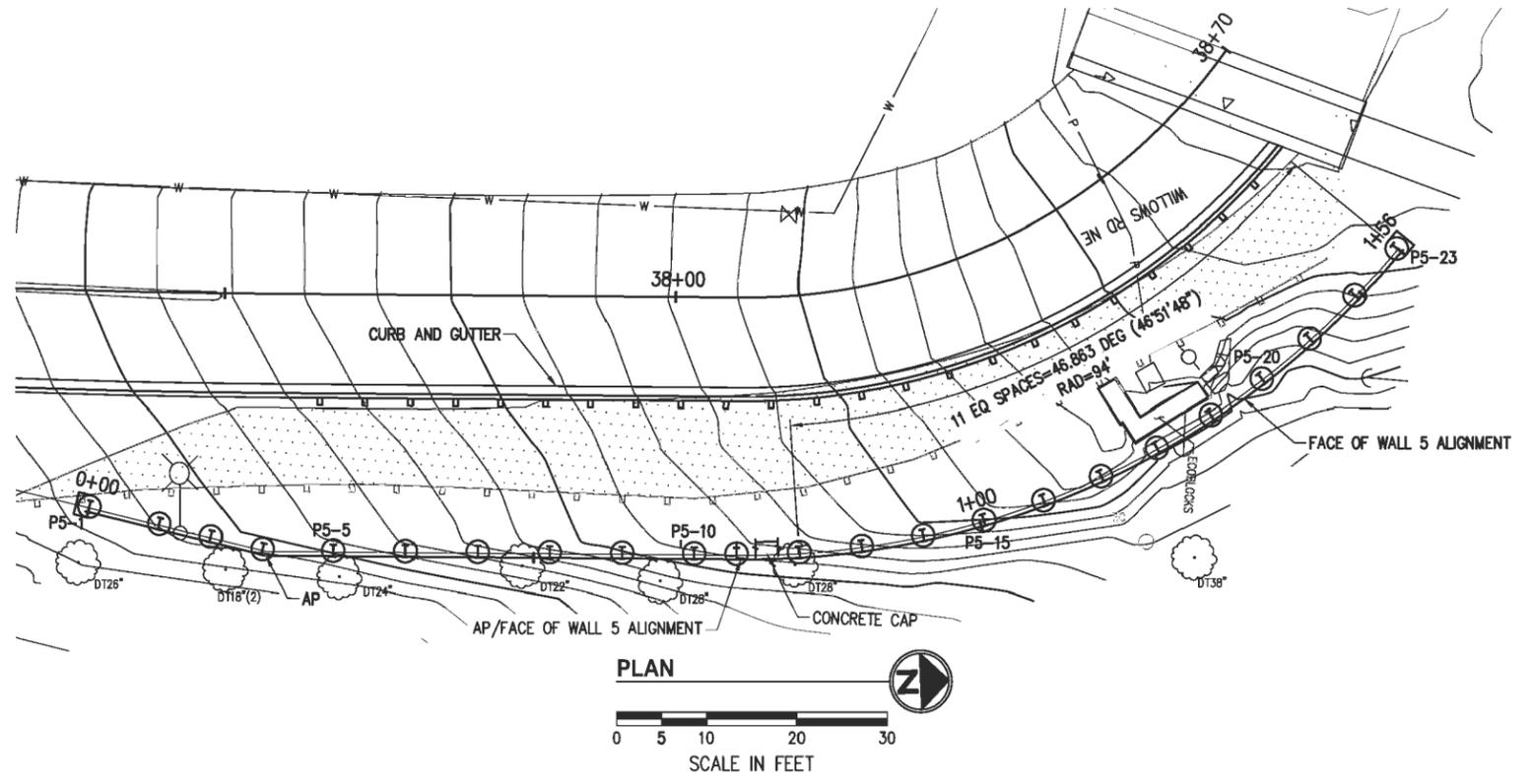
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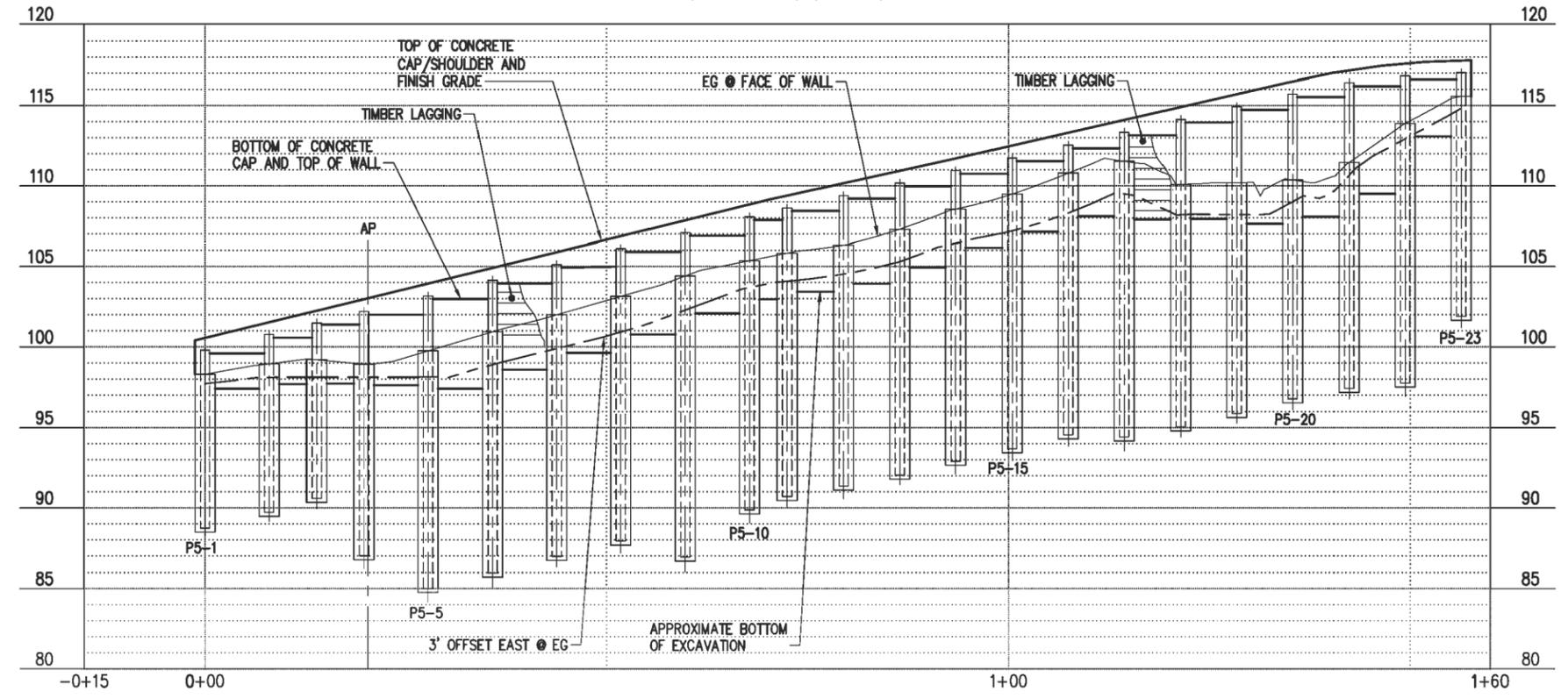
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CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE**

PLAN AND PROFILE WALL 4	
KPG PROJECT No. 17132	SHT <u>32</u> OF <u>53</u>

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WALL 5
STA 0+00 TO STA 1+60



PROFILE
HOR: 1"=10' VER: 1"=5'

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ENGINEERING MANAGER	DATE	FILENAME A. BRIGHT 12/12/19
PROJECT MANAGER	DATE	DESIGNED BY A. SCITILLO 12/12/19
PROJECT ENGINEER	DATE	DRAWN BY I. IKEDA 12/12/19
	DATE	CHECKED BY 12/12/2019



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PLAN AND PROFILE WALL 5	
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PILE SCHEDULE										
WALL 3A										
PILE NO	PILE SIZE	STA	OFFSET	TOS EL (FT)	TOP OF SHAFT EL (FT)	BOTTOM OF COATING MIN LF (FROM TOS)	MIN EMBED (FT)	APPROX SHAFT LENGTH (FT)	APPROX WIDE FLANGE LENGTH (FT)	REMARKS
P3-1	W16x36	28+18.92	26.37' RT	58.8600	57.97	7.50	8	11.90	12.25	
P3-2	W16x36	28+28.92	26.37' RT	58.90	56.45	8.50	10	13.30	15.25	
P3-3	W16x40	28+36.92	26.37' RT	59.36	56.71	10.50	12	17.10	19.25	
P3-4	W16x40	28+44.92	26.37' RT	59.98	56.94	10.50	12	16.71	19.25	
P3-5	W16x40	28+52.92	27.00' RT	60.12	56.85	10.50	12	16.48	19.25	
P3-6	W16x40	28+60.86	25.88' RT	60.25	57.05	10.50	12	16.55	19.25	
P3-7	W16x40	28+68.88	25.97' RT	60.36	57.28	10.50	12	16.68	19.25	
P3-8	W16x40	28+76.82	24.81' RT	60.48	57.52	10.50	12	16.79	19.25	
P3-9	W16x40	28+84.85	24.90' RT	60.60	57.97	10.50	12	17.12	19.25	
P3-10	W16x40	28+92.83	24.37' RT	60.75	58.49	10.50	12	17.49	19.25	
P3-11	W16x40	29+00.77	23.22' RT	60.94	58.87	10.50	12	17.69	19.25	
P3-12	W16x40	29+08.75	22.68' RT	61.13	59.22	10.50	12	17.85	19.25	
P3-13	W16x67	29+16.73	22.15' RT	61.31	59.68	11.50	15	22.12	23.25	
P3-14	W16x67	29+24.76	22.24' RT	61.50	60.11	11.50	15	22.36	23.25	
P3-15	W16x67	29+32.70	21.09' RT	61.72	60.54	11.50	15	22.57	23.25	
P3-16	W16x67	29+40.68	20.56' RT	61.98	60.98	11.50	15	22.75	23.25	
WALL 3C										
P3-21	W16x36	34+17.06	20.37' RT	79.24	78.42	6.50	8	10.93	11.25	
P3-22	W16x36	34+25.06	20.37' RT	79.36	77.29	6.50	9	9.67	11.25	
P3-23	W16x36	34+33.06	20.37' RT	79.48	76.81	7.50	10	10.08	12.25	
P3-24	W16x36	34+41.06	20.37' RT	79.61	76.83	7.50	11	9.97	12.25	
P3-25	W16x36	34+49.06	20.37' RT	79.73	76.46	7.50	12	9.49	12.25	
P3-26	W16x36	34+57.06	20.37' RT	79.85	75.94	7.50	13	8.84	12.25	
P3-27	W16x36	34+65.06	20.37' RT	79.97	75.78	8.50	10	11.57	15.25	
P3-28	W16x40	34+73.06	20.37' RT	80.12	74.93	9.50	12	13.56	18.25	
P3-29	W16x40	34+81.06	20.37' RT	80.30	75.03	9.50	13	13.48	18.25	
P3-30	W16x40	34+89.06	20.37' RT	80.48	75.24	9.50	14	13.51	18.25	
P3-31	W16x40	34+98.30	20.22' RT	80.66	76.72	9.50	15	14.81	18.25	
P3-32	W16x40	35+04.73	23.29' RT	80.67	77.33	9.50	16	15.41	18.25	
P3-33	W16x36	35+10.70	28.92' RT	80.67	77.39	8.50	10	12.47	15.25	

PILE SCHEDULE (CONTINUED)										
WALL 4										
PILE NO	PILE SIZE	STA	OFFSET	TOS EL (FT)	TOP OF SHAFT EL (FT)	BOTTOM OF COATING MIN LF (FROM TOS)	MIN EMBED (FT)	APPROX SHAFT LENGTH (FT)	APPROX WIDE FLANGE LENGTH (FT)	REMARKS
P4-1	W16x40	36+04.99	26.87' RT	83.74	82.08	9.50	12	17.09	18.25	
P4-2	W16x40	36+72.91	24.69' RT	84.22	82.77	9.50	12	17.30	18.25	
P4-3	W16x40	35+66.62	24.71' RT	84.75	81.27	10.50	12	16.27	19.25	
P4-4	W16x40	35+74.60	25.24' RT	85.29	80.12	10.50	12	14.58	19.25	
P4-5	W16x40	35+82.59	25.78' RT	85.82	78.76	10.50	12	12.69	19.25	
P4-6	W16x67	35+90.57	26.31' RT	86.25	77.75	11.50	15	15.25	23.25	
P4-7	W16x67	35+98.55	26.84' RT	86.62	77.85	11.50	15	14.98	23.25	
P4-8	W16x67	36+10.98	26.87' RT	87.25	78.90	11.50	15	15.40	23.25	
P4-9	W16x67	36+18.78	26.88' RT	87.85	80.09	11.50	15	15.99	23.25	
P4-10	W16x40	36+26.56	26.88' RT	88.52	80.81	10.50	12	12.04	19.25	
P4-11	W16x40	36+34.35	26.88' RT	89.20	81.93	10.50	12	12.48	19.25	
P4-12	W16x40	36+42.13	26.87' RT	89.92	84.34	10.50	12	14.17	19.25	
P4-13	W16x40	36+49.92	26.87' RT	90.64	86.36	10.50	12	15.47	19.25	
P4-14	W16x40	36+57.70	26.87' RT	91.37	88.62	10.50	12	17.00	19.25	
P4-15	W16x40	36+56.49	26.87' RT	92.12	92.03	10.50	12	19.66	19.25	

WALL 5										
PILE NO	PILE SIZE	STA	OFFSET	TOS EL (FT)	TOP OF SHAFT EL (FT)	BOTTOM OF COATING MIN LF (FROM TOS)	MIN EMBED (FT)	APPROX SHAFT LENGTH (FT)	APPROX WIDE FLANGE LENGTH (FT)	REMARKS
P5-1	W16x36	37+35.65	23.89' RT	99.82	98.30	6.50	8	10.23	11.25	
P5-2	W16x36	37+43.27	25.62' RT	100.79	98.95	6.50	8	9.91	11.25	
P5-3	W16x36	37+48.86	26.93' RT	101.51	99.21	6.50	8	9.45	11.25	
P5-4	W16x36	37+54.44	28.28' RT	102.23	98.92	8.50	10	12.45	15.25	
P5-5	W16x40	37+62.27	28.37' RT	103.20	99.75	9.50	12	15.31	18.25	
P5-6	W16x40	37+70.27	28.37' RT	104.17	100.95	9.50	12	15.53	18.25	
P5-7	W16x40	37+78.27	28.37' RT	105.15	102.01	9.50	12	15.61	18.25	
P5-8	W16x40	37+86.27	28.37' RT	106.13	103.15	9.50	12	15.77	18.25	
P5-9	W16x40	37+94.27	28.37' RT	107.12	104.42	9.50	12	16.06	18.25	
P5-10	W16x40	38+02.27	28.37' RT	108.10	105.37	9.50	12	16.02	18.25	
P5-11	W16x40	38+06.98	28.38' RT	108.65	105.84	9.50	12	15.94	18.25	
P5-12	W16x40	38+11.96	28.38' RT	109.42	106.34	9.50	12	15.67	18.25	PILE ALONG RADIUS
P5-13	W16x40	38+16.80	28.38' RT	110.20	107.31	9.50	12	15.86	18.25	PILE ALONG RADIUS
P5-14	W16x40	38+21.63	28.38' RT	110.97	108.56	9.50	12	16.34	18.25	PILE ALONG RADIUS
P5-15	W16x40	38+26.46	28.38' RT	111.77	109.50	9.50	12	16.49	18.25	PILE ALONG RADIUS
P5-16	W16x40	38+31.30	28.38' RT	112.57	110.80	9.50	12	16.99	18.25	PILE ALONG RADIUS
P5-17	W16x40	38+36.13	28.38' RT	113.36	111.54	10.50	12	17.93	19.25	PILE ALONG RADIUS
P5-18	W16x40	38+40.96	28.38' RT	114.16	110.10	10.50	12	15.69	19.25	PILE ALONG RADIUS
P5-19	W16x40	38+45.80	28.38' RT	114.96	110.20	10.50	12	14.99	19.25	PILE ALONG RADIUS
P5-20	W16x40	38+50.63	28.38' RT	115.75	110.38	10.50	12	14.38	19.25	PILE ALONG RADIUS
P5-21	W16x40	38+55.46	28.38' RT	116.42	111.46	10.50	12	14.80	19.25	PILE ALONG RADIUS
P5-22	W16x40	38+60.30	28.38' RT	116.84	113.89	10.50	12	16.80	19.25	PILE ALONG RADIUS
P5-23	W16x36	38+65.13	28.38' RT	117.03	115.58	8.50	10	14.30	15.25	PILE ALONG RADIUS

S-5

NO.	DATE	BY	APPR.	REVISIONS

Approved By		S-5.dwg	
ENGINEERING MANAGER	DATE	FILENAME	DATE
PROJECT MANAGER	DATE	A. BRIGHT	12/12/19
PROJECT ENGINEER	DATE	DESIGNED BY	DATE
		A. SCITILLO	12/12/19
		DRAWN BY	DATE
		L. IKEDA	12/12/19
		CHECKED BY	DATE



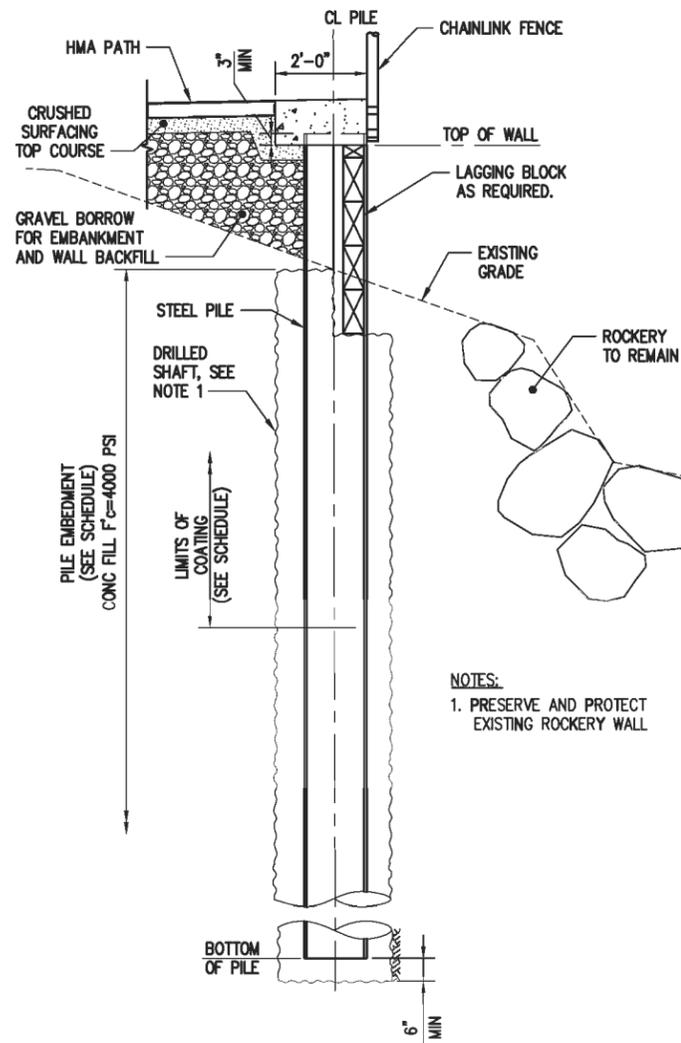
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12/12/19



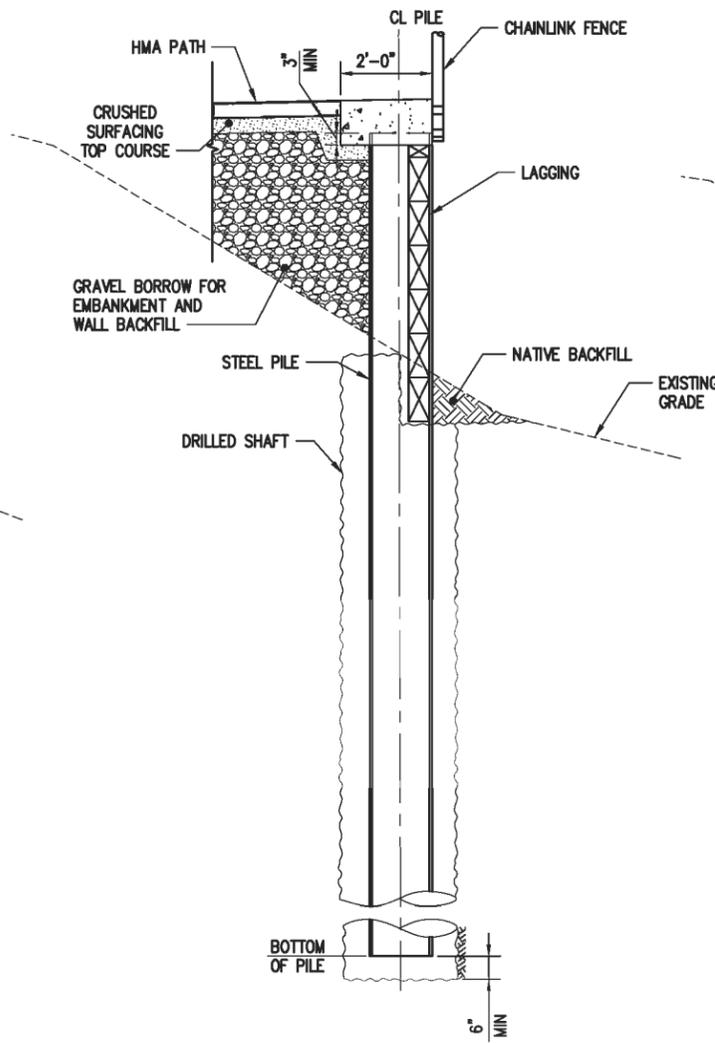
CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

SOLDIER PILE WALL SCHEDULE
KPG PROJECT No. 17132 SHT 35 OF 53

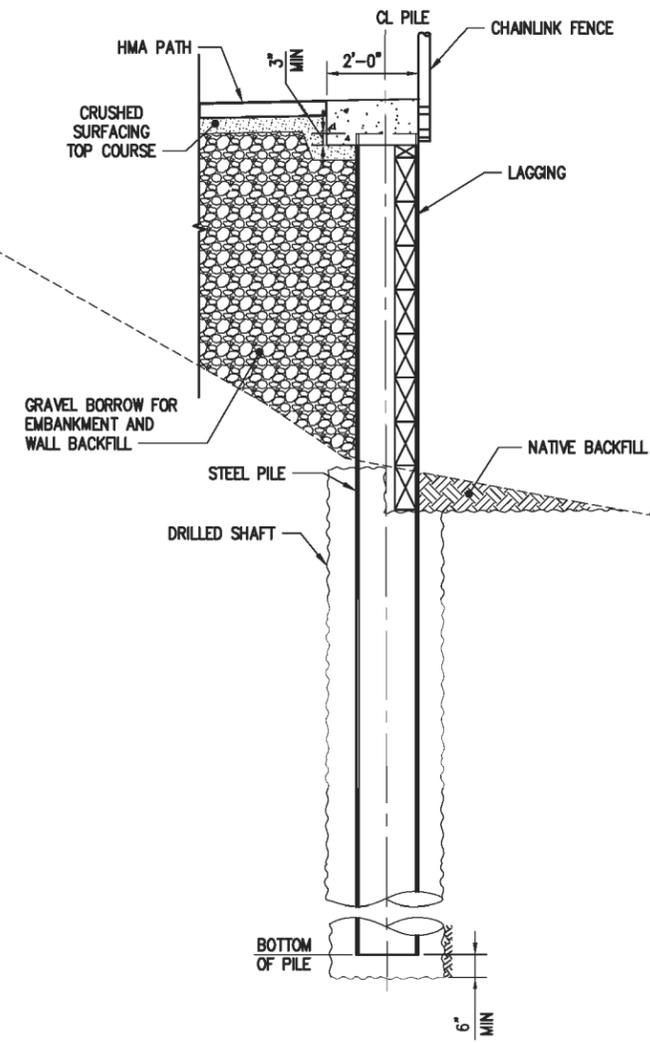
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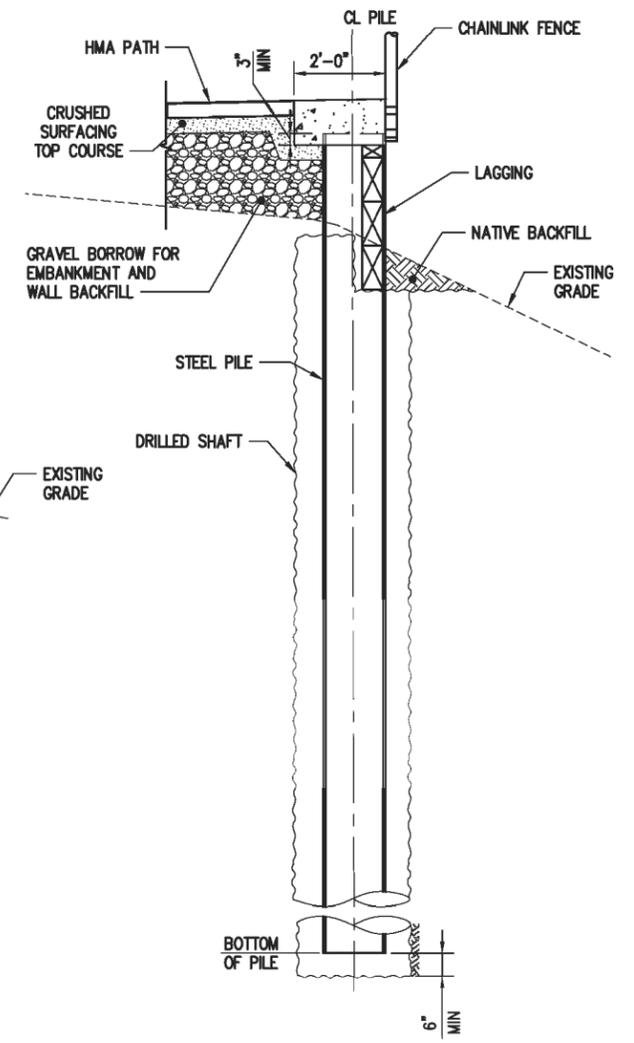
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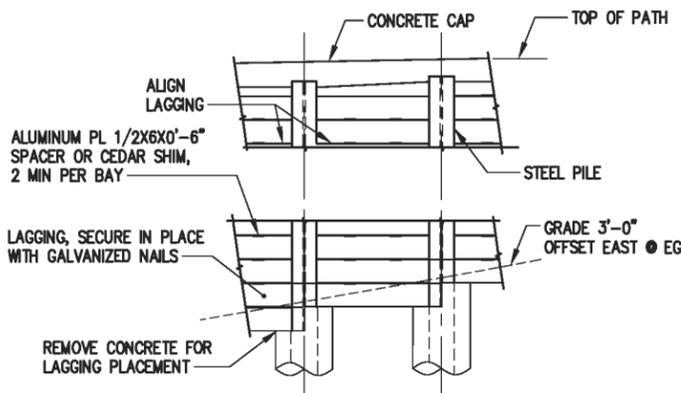
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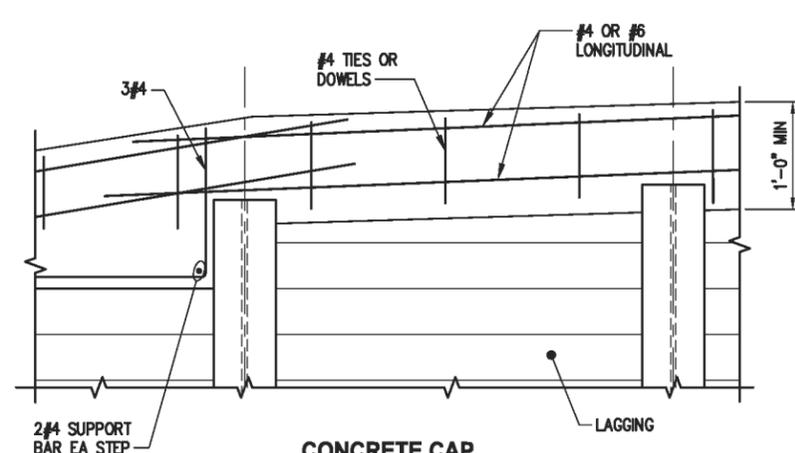
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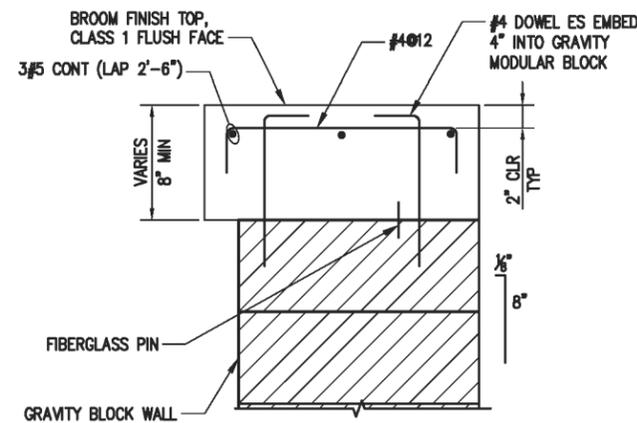
WALL 5 SECTION
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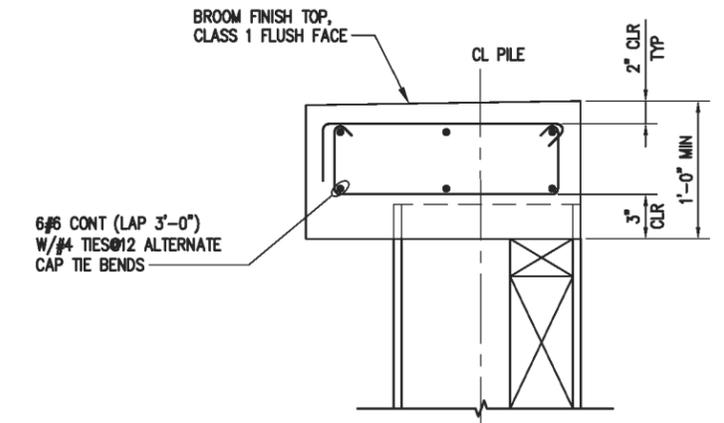
RETAINING WALL PARTIAL ELEVATION
SCALE: NTS



CONCRETE CAP PARTIAL SECTION
SCALE: NTS



CAP AT MODULAR BLOCK DETAIL
SCALE: 1-1/2" = 1'-0"



CAP AT SOLDIER PILE DETAIL
SCALE: 1-1/2" = 1'-0"

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

S-6.dwg

FILENAME	12/12/19
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE



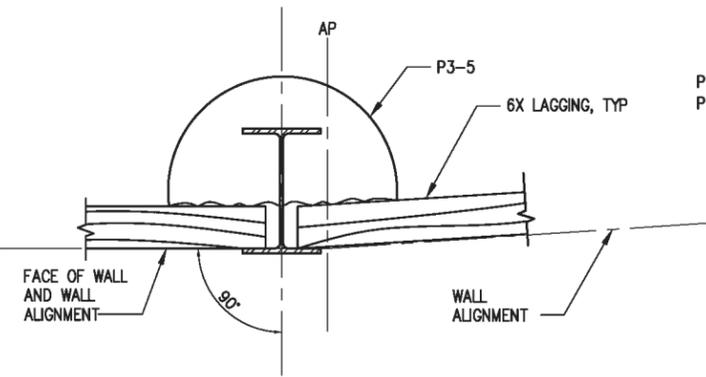
BRIGHT ENGINEERING, INC.
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1809 7TH AVENUE SUITE 1100
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(206) 625-3777
FAX: (206) 625-1851

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12/12/19

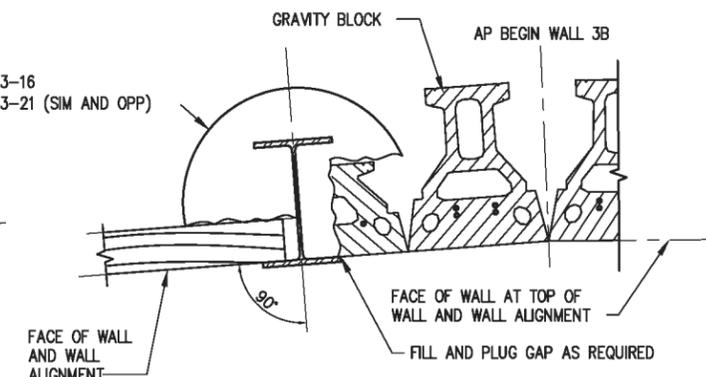


CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

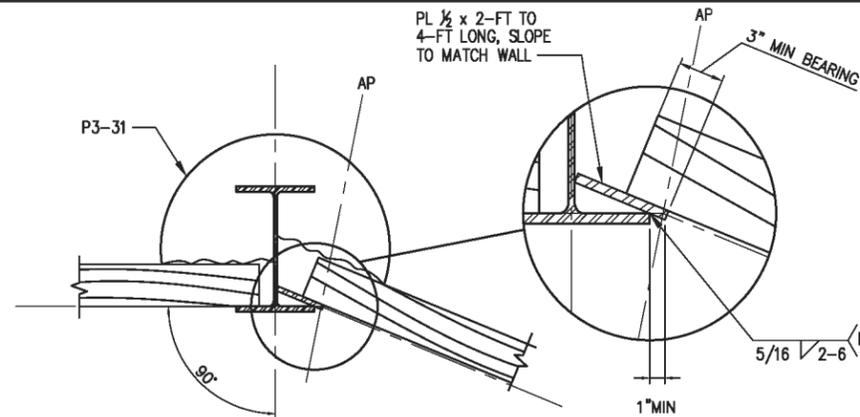
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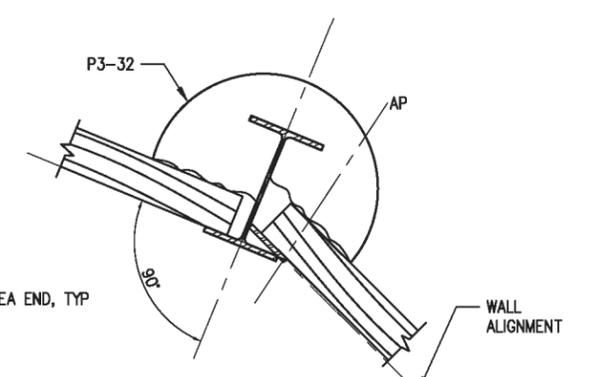
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DETAIL**
1
SCALE: 1" = 1'-0"



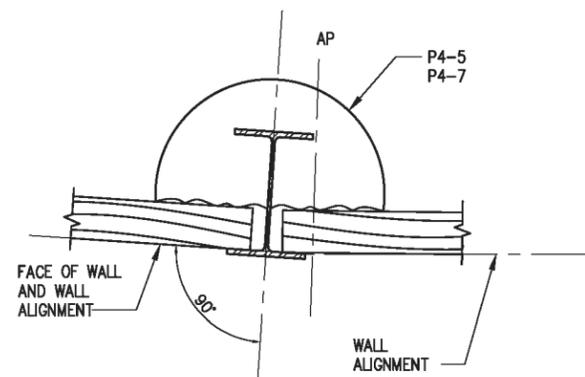
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DETAIL**
2
SCALE: 1" = 1'-0"



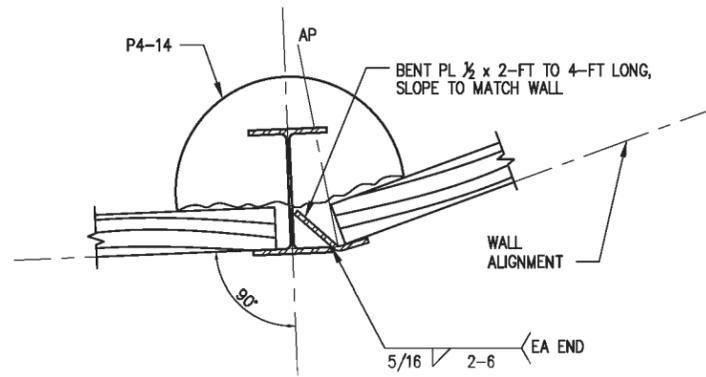
**WALL 3C
DETAIL**
3
SCALE: 1" = 1'-0"



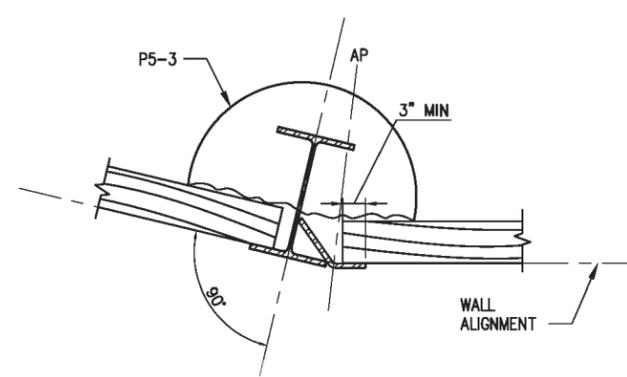
**WALL 3C
DETAIL**
4
SCALE: 1" = 1'-0"



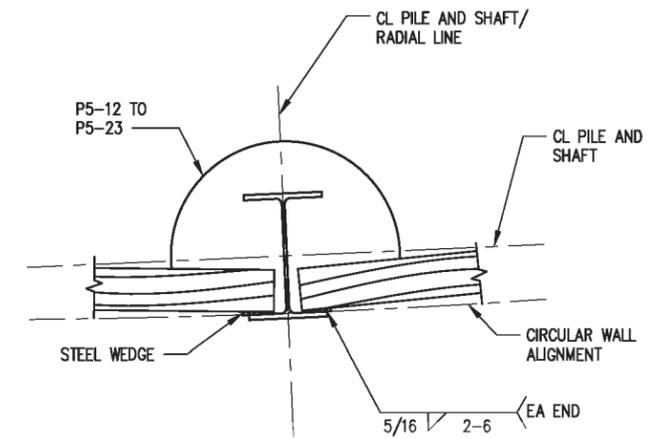
**WALL 4
DETAIL**
5
SCALE: 1" = 1'-0"



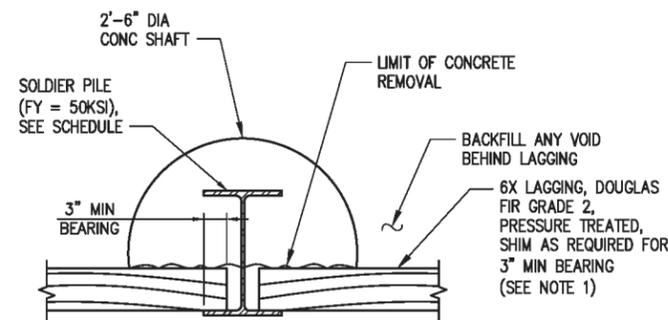
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DETAIL**
6
SCALE: 1" = 1'-0"



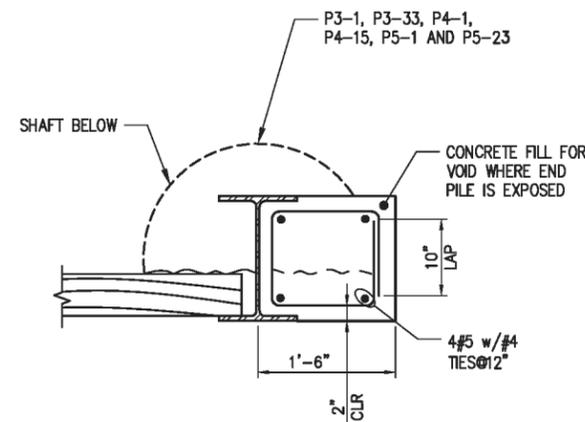
**WALL 5
DETAIL**
7
SCALE: 1" = 1'-0"



**WALL 5
DETAIL**
8
SCALE: 1" = 1'-0"



**TYPICAL RETAINING WALL
DETAIL**
9
SCALE: 1" = 1'-0"



**TYPICAL RETAINING WALL AT ENDS
DETAIL**
10
SCALE: 1" = 1'-0"

NOTES:

1. MINIMIZE CUTTING AND LAGGING AS MUCH AS POSSIBLE. ALL CUTS, HOLES AND ABRASIONS IN TREATED TIMBER LAGGING SHALL BE FIELD TREATED WITH PRESERVATIVES COMPATIBLE WITH THE ORIGINAL PRESERVATIVE TREATMENT.

NO.	DATE	BY	APPR.	REVISIONS

Approved By		FILENAME	DATE
ENGINEERING MANAGER	DATE	S-7.dwg	12/12/19
PROJECT MANAGER	DATE	DESIGNED BY	A. SOTILLO
PROJECT ENGINEER	DATE	DRAWN BY	I. KEDA
		CHECKED BY	



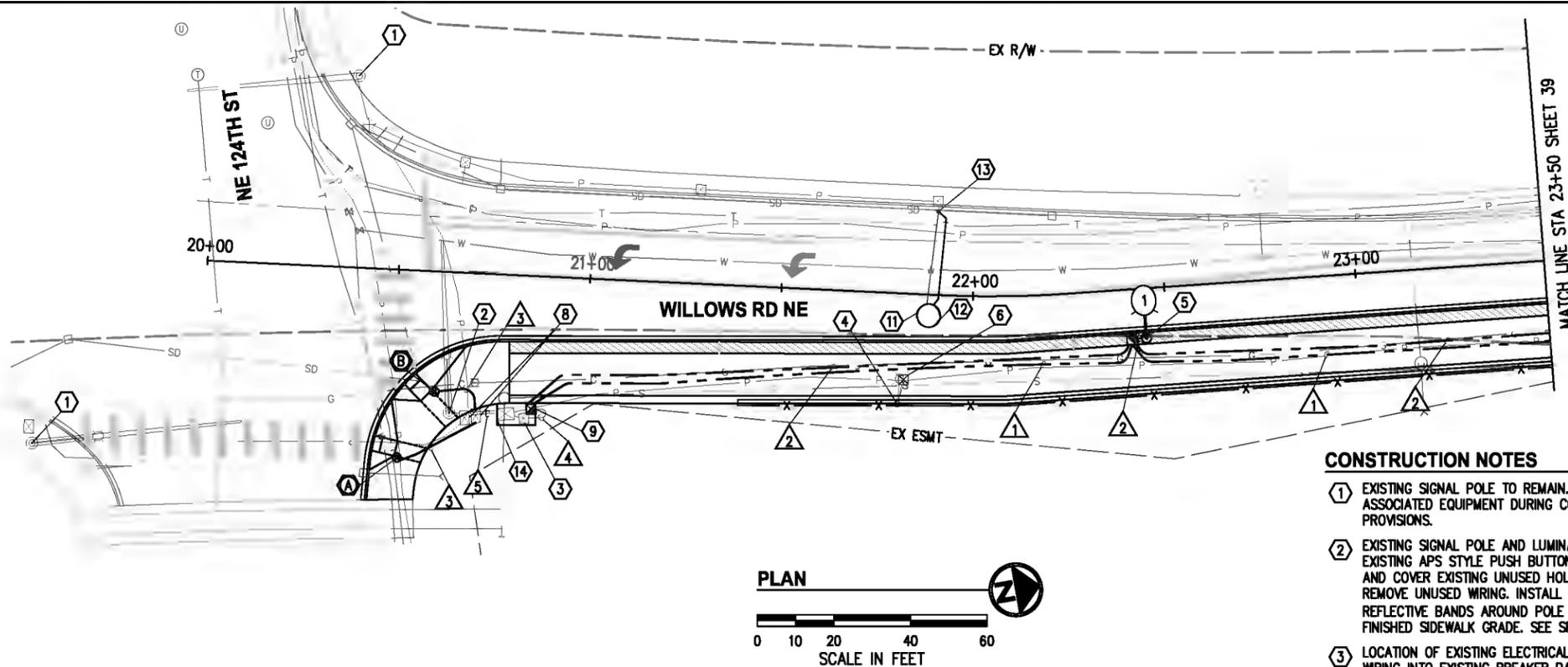
BRIGHT ENGINEERING, INC.
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1809 7TH AVENUE SUITE 1100
SEATTLE, WA 98101
(206) 625-3777
FAX: (206) 825-1851

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12/12/19



CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

SECTIONS AND DETAILS	
KPG PROJECT No. 17132	SHT 37 OF 53



PPB POLE NOTES

- A** CONSTRUCT FOUNDATION, FURNISH AND INSTALL ONE BREAKAWAY TYPE PPB SIGNAL POLE PER WSDOT STD PLAN J-20.15, AND INSTALL TRANSP0 AP3.5 BREAKAWAY SUPPORT SYSTEM FOR THE POLE. RELOCATE AND INSTALL ONE APS STYLE PEDESTRIAN PUSH BUTTON ON THE TYPE PPB SIGNAL POLE. APS PUSH BUTTON CONTROL FACE SHALL BE INSTALLED PARALLEL TO THE CROSSWALK SERVED. ORIENTATION AND LOCATION OF THE APS STYLE PEDESTRIAN PUSH BUTTON SHALL BE PER THE LATEST ADA GUIDELINES AND SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO INSTALLATION. COMPLETE WIRING PER THE WIRE NOTES, THIS SHEET. INSTALL 2IN WIDE WHITE HIGH INTENSITY REFLECTIVE BAND AROUND POLE AT 1'-6" ABOVE FINISHED SIDEWALK GRADE. SEE SPECIAL PROVISIONS.
- B** CONSTRUCT FOUNDATION, FURNISH AND INSTALL ONE BREAKAWAY TYPE PPB SIGNAL POLE PER WSDOT STD PLAN J-20.15, AND INSTALL TRANSP0 AP3.5 BREAKAWAY SUPPORT SYSTEM FOR THE POLE. RELOCATE AND INSTALL ONE APS STYLE PEDESTRIAN PUSH BUTTON ON THE TYPE PPB SIGNAL POLE. APS PUSH BUTTON CONTROL FACE SHALL BE INSTALLED PARALLEL TO THE CROSSWALK SERVED. ORIENTATION AND LOCATION OF THE APS STYLE PEDESTRIAN PUSH BUTTON SHALL BE PER THE LATEST ADA GUIDELINES AND SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO INSTALLATION. CONTRACTOR TO MAINTAIN MINIMUM 4' PEDESTRIAN ACCESS ROUTE BETWEEN EXISTING TRAFFIC SIGNAL POLE FOUNDATION AND NEW PPB POLE. COMPLETE WIRING PER THE WIRE NOTES, THIS SHEET. INSTALL 2IN WIDE WHITE HIGH INTENSITY REFLECTIVE BAND AROUND POLE AT 1'-6" ABOVE FINISHED SIDEWALK GRADE. SEE SPECIAL PROVISIONS.

PPB POLE LOCATION (NE 124TH ST & WILLOWS RD NE)

PPB POLE #	STATION	OFFSET	COMMENTS
A	WILLOWS RD 20+51.7	49.0' RT	
B	WILLOWS RD 20+60.8	31.3' RT	

LUMINAIRE SCHEDULE

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
1	WILLOWS RD 22+44.5	12.9' RT	88W, 4000K, TYPE III, B2-U0-G2, 240V	6'	35'	BREAKAWAY	EX	

WIRE NOTES

WIRE #	RACEWAY/CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#8(ILL)	
3	1"	1-2CS	
4		2-#8(ILL)	REMOVE EX ILL WIRING
5		2-2CS	REMOVE EX PUSH BUTTON WIRING

NOTES:

- 1. ALL PVC CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN). WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS OTHERWISE NOTED IN THE WIRE NOTES). CONDUITS THAT DO NOT CONTAIN ELECTRICAL CONDUCTORS SHALL INCLUDE A DETECTABLE PULL TAPE AND SHALL BE LABELED "CITY OF KIRKLAND"
- 2. ALL CONDUIT SHALL BE RIGID PVC SCH 80.

CONSTRUCTION NOTES

- 1 EXISTING SIGNAL POLE TO REMAIN. PROTECT POLE AND ALL ASSOCIATED EQUIPMENT DURING CONSTRUCTION. SEE SPECIAL PROVISIONS.
- 2 EXISTING SIGNAL POLE AND LUMINAIRE TO REMAIN. RELOCATE EXISTING APS STYLE PUSH BUTTONS TO NEW PPB SIGNAL POLES AND COVER EXISTING UNUSED HOLES PER DETAILS, SHEET 43. REMOVE UNUSED WIRING. INSTALL 2IN WIDE WHITE HIGH INTENSITY REFLECTIVE BANDS AROUND POLE AT 1'-6" AND 3'-0" ABOVE FINISHED SIDEWALK GRADE. SEE SPECIAL PROVISIONS.
- 3 LOCATION OF EXISTING ELECTRICAL SERVICE CABINET. INSTALL NEW WIRING INTO EXISTING BREAKER PANEL AND COMPLETE WIRING PER WIRE NOTES, THIS SHEET. NEW LUMINAIRES SHALL BE CONNECTED TO EXISTING BREAKER WHICH POWERS EXISTING LIGHTS TO BE REMOVED. COORDINATE WORK WITH COK TRANSPORTATION MAINTENANCE AND OPERATIONS DEPARTMENT REPRESENTATIVE.
- 4 FOLLOWING ACTIVATION OF NEW ILLUMINATION SYSTEM REMOVE EXISTING LUMINAIRE, LUMINAIRE POLE, LUMINAIRE ARM AND ALL ASSOCIATED EQUIPMENT. GRIND DOWN EXISTING FOUNDATION 3 FEET BELOW GRADE (OR REMOVE COMPLETELY) AND BACKFILL AND COMPACT VOID PER SPECIAL PROVISIONS. COORDINATE WORK WITH COK TRANSPORTATION MAINTENANCE AND OPERATIONS DEPARTMENT REPRESENTATIVE. SALVAGE PER SPECIAL PROVISIONS.
- 5 CONSTRUCT LUMINAIRE POLE FOUNDATION (TYPE B) PER WSDOT STD. PLAN J-28.30. FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, LUMINAIRE ARM, AND ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING PER WSDOT STD PLANS J-28.10 (TYPE 1 DAVIT MAST ARM), J-28.24, J-28.30, J-28.40, AND J-28.70. FURNISH AND INSTALL ONE WRAP AROUND LUMINAIRE POLE OF 6" WIDE WHITE REFLECTIVE TAPE AT 2'-0" AND 5'-0" ABOVE POLE BASE PLATE. SEE SPECIAL PROVISIONS.
- 6 REMOVE EXISTING JUNCTION BOX AND ASSOCIATED CONDUIT AND UNUSED WIRING. CAP AND ABANDON ALL EXISTING UNUSED CONDUIT, EXCEPT ALL EXPOSED CONDUIT SHALL BE REMOVED. BACKFILL AND COMPACT PER SPECIAL PROVISIONS.
- 8 EXISTING JUNCTION BOX TO REMAIN. ADJUST TO PROPOSED GRADE. PRESERVE CONDUIT AND WIRING CONTINUITY AND PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION.
- 9 REPLACE EXISTING JUNCTION BOX WITH NEW JUNCTION BOX WITH NON-SKID LID AND FRAME AND MATCH PROPOSED GRADE. REFER TO DETAIL 3, SHEET 6. ADJUST CONDUIT PER STANDARD SPECIFICATIONS.
- 11 EXISTING VEHICLE LOOP SHALL BE ABANDONED. REMOVE EXISTING UNUSED TWISTED PAIR WIRING BETWEEN JUNCTION BOX AND PAVEMENT. EXISTING LEAD-IN WIRING TO CONTROLLER SHALL REMAIN. LABEL LOOP WIRES IN JUNCTION BOX PRIOR TO ABANDONING.
- 12 INSTALL 6" DIA VEHICLE LOOP PER WSDOT STD. PLAN J-50.12. LOOP SHALL BE CENTERED IN THE TRAFFIC LANE BASED ON THE CHANNELIZATION PLAN AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO GRINDING/SAWCUTTING. SPLICE LOOP WIRES TO EXISTING LEAD IN WIRES INSIDE EXISTING JUNCTION BOX.
- 13 APPROXIMATE LOCATION OF EXISTING STUBOUT TO REUSE. FIELD LOCATE AND PROTECT DURING CONSTRUCTION.
- 14 CONNECT NEW PEDESTRIAN PUSH BUTTON WIRING INSIDE EXISTING TRAFFIC SIGNAL CONTROL CABINET.

GENERAL NOTES

- 1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, LATEST AMENDMENTS TO THE STANDARD SPECIFICATIONS, CITY OF KIRKLAND STANDARDS AND THESE PLANS.
- 2. THE LOCATION OF ALL CONDUIT AND LUMINAIRES SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY AND FINAL LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. ALL NEW POLE FOUNDATION LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
- 3. 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.
- 4. 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.
- 5. ALL JUNCTION BOXES INSTALLED IN SIDEWALKS SHALL BE LOCKABLE AND HAVE SLIP RESISTANT LIDS AND METAL FRAMES.
- 6. CONTRACTOR SHALL CONTACT ENGINEER TO COORDINATE ALL WORK ON CITY-OWNED SYSTEMS.
- 7. EXISTING OR HIGHER ILLUMINATION LEVELS SHALL BE MAINTAINED BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL. THE CONTRACTOR IS ALSO RESPONSIBLE FOR MAINTAINING A CLEARANCE ZONE OF 15' AROUND EXISTING AERIAL POWER LINES DURING CONSTRUCTION. COORDINATE WORK WITH THE POWER COMPANY.
- 8. CONTRACTOR SHALL COORDINATE WITH PSE POLE SERVICES REPRESENTATIVE LANE MAHLER AT (425)462-3624.
- 9. FOR ILLUMINATION ONE LINE DIAGRAM, SEE SHEET 43.
- 10. FOR TREATMENT OF EXISTING UTILITIES, SEE SITE PREPARATION & TESC PLAN, SHEETS 7-9.
- 11. FOR CONDUIT TRENCH CONSTRUCTION SEE SPECIAL PROVISIONS SECTION 8-20.3(2).

LEGEND

EXISTING	NEW	DESCRIPTION
		ROADWAY (COBRA STYLE) LUMINAIRE
		TYPE III SIGNAL POLE WITH COBRA HEAD AND MAST ARM
		TYPE PPB SIGNAL POLE
		ELECTRICAL SERVICE CABINET
		TRAFFIC CONTROLLER CABINET
		JUNCTION BOX TYPE 1 & 2
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE
		SIGNAL POLE NOTE

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NO.	DATE	BY	APPR.	REVISIONS

Approved By		17132ILL.dwg
ENGINEERING MANAGER	DATE	FILENAME
PROJECT MANAGER	DATE	TD 12/2019
PROJECT ENGINEER	DATE	DESIGNED BY
		TD 12/2019
		DRAWN BY
		JC 12/2019
		CHECKED BY
		DATE



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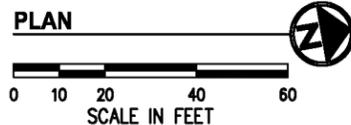
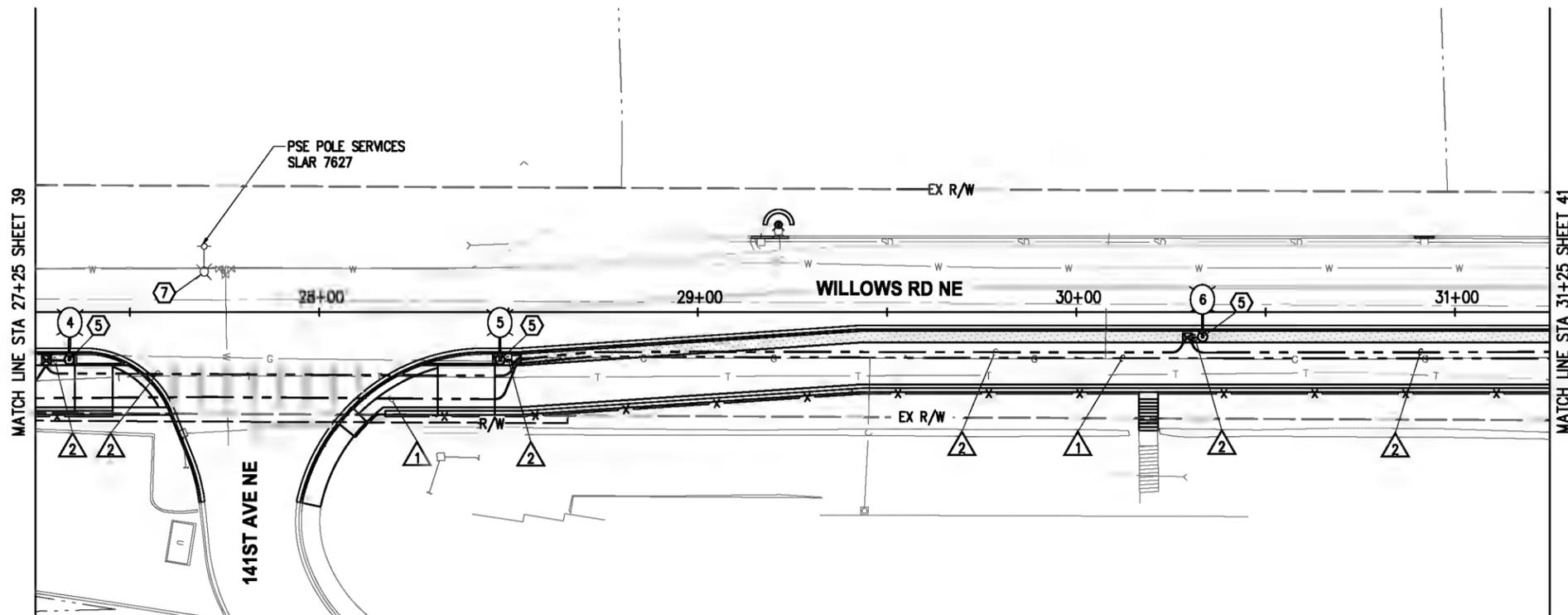
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01/03/20



CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

ILLUMINATION & SIGNALIZATION PLAN
WILLOWS RD NE
STA 20+00 TO STA 23+50
KPG PROJECT No. 17132 SHT 38 OF 53

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GENERAL NOTES

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, LATEST AMENDMENTS TO THE STANDARD SPECIFICATIONS, CITY OF KIRKLAND STANDARDS AND THESE PLANS.
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- EXISTING OR HIGHER ILLUMINATION LEVELS SHALL BE MAINTAINED BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL. THE CONTRACTOR IS ALSO RESPONSIBLE FOR MAINTAINING A CLEARANCE ZONE OF 15' AROUND EXISTING AERIAL POWER LINES DURING CONSTRUCTION. COORDINATE WORK WITH THE POWER COMPANY.
- CONTRACTOR SHALL COORDINATE WITH PSE POLE SERVICES REPRESENTATIVE LANE MAHLER AT (425)462-3624.
- FOR ILLUMINATION ONE LINE DIAGRAM, SEE SHEET 43.
- FOR TREATMENT OF EXISTING UTILITIES, SEE SITE PREPARATION & TESC PLAN, SHEETS 7-9.
- FOR CONDUIT TRENCH CONSTRUCTION SEE SPECIAL PROVISIONS SECTION 8-20.3(2).

WIRE NOTES

WIRE NOTE	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#8(ILL)	
3	1"	1-2CS	
4		2-#8(ILL)	REMOVE EX ILL WIRING
5		2-2CS	REMOVE EX PUSH BUTTON WIRING

NOTES:

- ALL PVC CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN). WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS OTHERWISE NOTED IN THE WIRE NOTES). CONDUITS THAT DO NOT CONTAIN ELECTRICAL CONDUCTORS SHALL INCLUDE A DETECTABLE PULL TAPE AND SHALL BE LABELED "CITY OF KIRKLAND"
- ALL CONDUIT SHALL BE RIGID PVC SCH 80.

CONSTRUCTION NOTES

- CONSTRUCT LUMINAIRE POLE FOUNDATION (TYPE B) PER WSDOT STD. PLAN J-28.30. FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, LUMINAIRE ARM, AND ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING PER WSDOT STD PLANS J-28.10 (TYPE 1 DAVIT MAST ARM), J-28.24, J-28.30, J-28.40, AND J-28.70. FURNISH AND INSTALL ONE WRAP AROUND LUMINAIRE POLE OF 6" WIDE WHITE REFLECTIVE TAPE AT 2'-0" AND 5'-0" ABOVE POLE BASE PLATE. SEE SPECIAL PROVISIONS.
- EXISTING LUMINAIRE TO BE REMOVED FROM PSE POLE BY OTHERS. COORDINATE WORK WITH PSE POLE SERVICES REPRESENTATIVE.

LEGEND

EXISTING	NEW	DESCRIPTION
		ROADWAY (COBRA STYLE) LUMINAIRE
		TYPE III SIGNAL POLE WITH COBRA HEAD AND MAST ARM
		TYPE PPB SIGNAL POLE
		ELECTRICAL SERVICE CABINET
		TRAFFIC CONTROLLER CABINET
		JUNCTION BOX TYPE 1 & 2
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE
		SIGNAL POLE NOTE

LUMINAIRE SCHEDULE

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
4	WILLOWS RD 27+34.0	12.6' RT	88W, 4000K, TYPE III, B2-U0-G2, 240V	6'	35'	BREAKAWAY	EX	
5	WILLOWS RD 28+47.7	12.6' RT	88W, 4000K, TYPE III, B2-U0-G2, 240V	6'	35'	BREAKAWAY	EX	
6	WILLOWS RD 30+33.3	6.5' RT	88W, 4000K, TYPE III, B2-U0-G2, 240V	6'	35'	BREAKAWAY	EX	

NO.	DATE	BY	APPR.	REVISIONS

Approved By		17132ILL.dwg
ENGINEERING MANAGER	DATE	FILENAME
PROJECT MANAGER	DATE	DESIGNED BY
PROJECT ENGINEER	DATE	TD 12/2019
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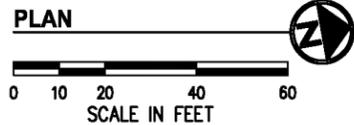
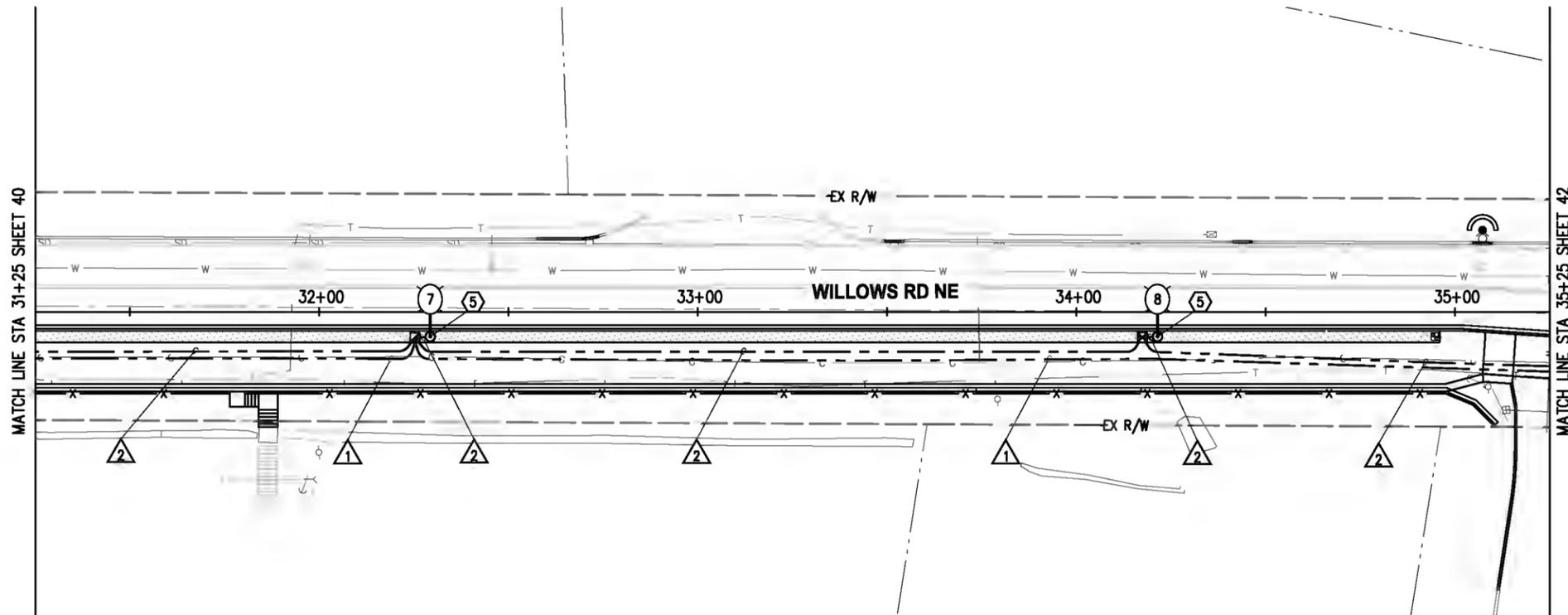
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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

ILLUMINATION & SIGNALIZATION PLAN
WILLOWS RD NE
STA 27+25 TO STA 31+25
KPG PROJECT No. 17132 SHT 40 OF 53

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GENERAL NOTES

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, LATEST AMENDMENTS TO THE STANDARD SPECIFICATIONS, CITY OF KIRKLAND STANDARDS AND THESE PLANS.
- THE LOCATION OF ALL CONDUIT AND LUMINAIRES SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY AND FINAL LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. ALL NEW POLE FOUNDATION LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
- 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.
- 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.
- ALL JUNCTION BOXES INSTALLED IN SIDEWALKS SHALL BE LOCKABLE AND HAVE SLIP RESISTANT LIDS AND METAL FRAMES.
- CONTRACTOR SHALL CONTACT ENGINEER TO COORDINATE ALL WORK ON CITY-OWNED SYSTEMS.
- EXISTING OR HIGHER ILLUMINATION LEVELS SHALL BE MAINTAINED BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL. THE CONTRACTOR IS ALSO RESPONSIBLE FOR MAINTAINING A CLEARANCE ZONE OF 15' AROUND EXISTING AERIAL POWER LINES DURING CONSTRUCTION. COORDINATE WORK WITH THE POWER COMPANY.
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- FOR ILLUMINATION ONE LINE DIAGRAM, SEE SHEET 43.
- FOR TREATMENT OF EXISTING UTILITIES, SEE SITE PREPARATION & TESC PLAN, SHEETS 7-9.
- FOR CONDUIT TRENCH CONSTRUCTION SEE SPECIAL PROVISIONS SECTION 8-20.3(2).

WIRE NOTES

CALLOUT	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#8(ILL)	
3	1"	1-2CS	
4		2-#8(ILL)	REMOVE EX ILL WIRING
5		2-2CS	REMOVE EX PUSH BUTTON WIRING

NOTES:

- ALL PVC CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN). WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS OTHERWISE NOTED IN THE WIRE NOTES). CONDUITS THAT DO NOT CONTAIN ELECTRICAL CONDUCTORS SHALL INCLUDE A DETECTABLE PULL TAPE AND SHALL BE LABELED "CITY OF KIRKLAND"
- ALL CONDUIT SHALL BE RIGID PVC SCH 80.

CONSTRUCTION NOTES

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LEGEND

EXISTING	NEW	DESCRIPTION
		ROADWAY (COBRA STYLE) LUMINAIRE
		TYPE III SIGNAL POLE WITH COBRA HEAD AND MAST ARM
		TYPE PPB SIGNAL POLE
		ELECTRICAL SERVICE CABINET
		TRAFFIC CONTROLLER CABINET
		JUNCTION BOX TYPE 1 & 2
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE
		SIGNAL POLE NOTE

LUMINAIRE SCHEDULE

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
7	WILLOWS RD 32+29.3	6.5' RT	88W, 4000K, TYPE III, B2-U0-G2, 240V	6'	35'	BREAKAWAY	EX	
8	WILLOWS RD 34+21.4	6.5' RT	88W, 4000K, TYPE III, B2-U0-G2, 240V	6'	35'	BREAKAWAY	EX	

NO.	DATE	BY	APPR.	REVISIONS

Approved By		17132ILL.dwg
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PROJECT MANAGER	DATE	DESIGNED BY
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		DATE
		12-13-2019



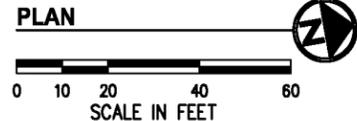
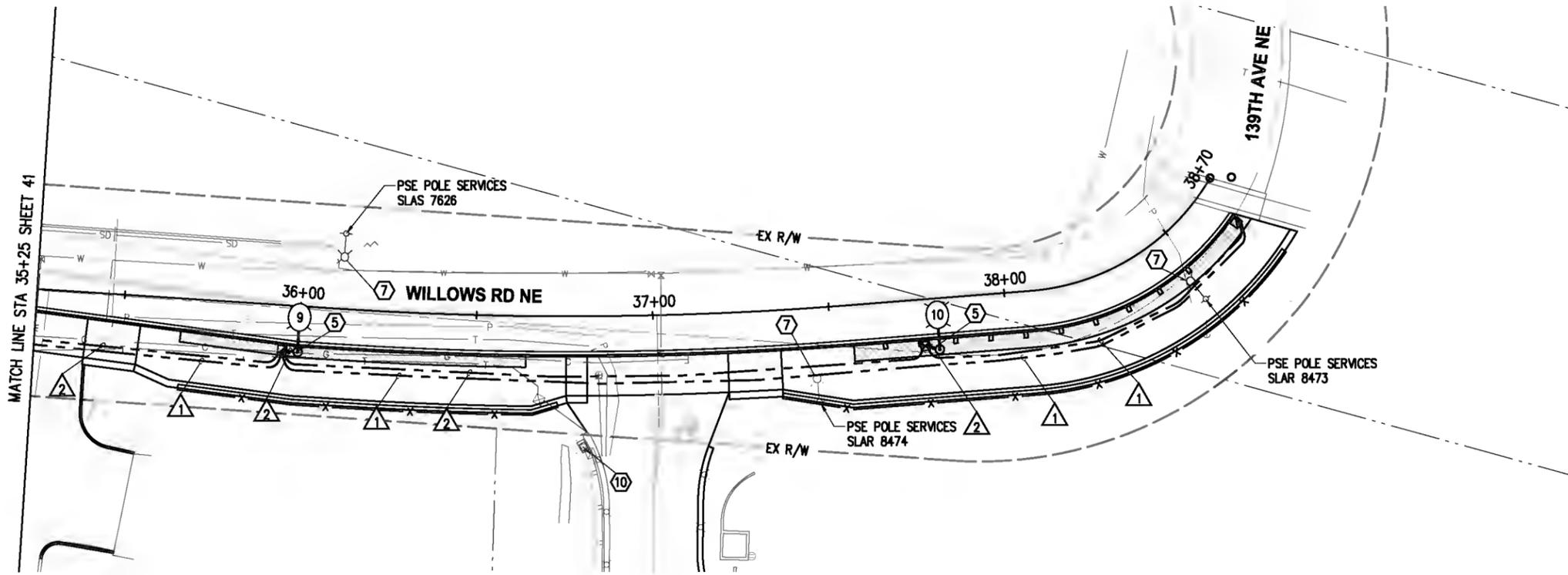
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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

ILLUMINATION & SIGNALIZATION PLAN
WILLOWS RD NE
STA 31+25 TO STA 35+25



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WIRE NOTES

WIRE NOTE SYMBOL	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	2-#8(ILL)	
3	1"	1-2CS	
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 - EXISTING LUMINAIRE TO BE REMOVED FROM PSE POLE BY OTHERS. COORDINATE WORK WITH PSE POLE SERVICES REPRESENTATIVE.
 - EXISTING PRIVATE LUMINAIRE TO REMAIN. CONTRACTOR SHALL PROTECT EXISTING LUMINAIRE AND ALL ASSOCIATED EQUIPMENT DURING CONSTRUCTION.

LEGEND

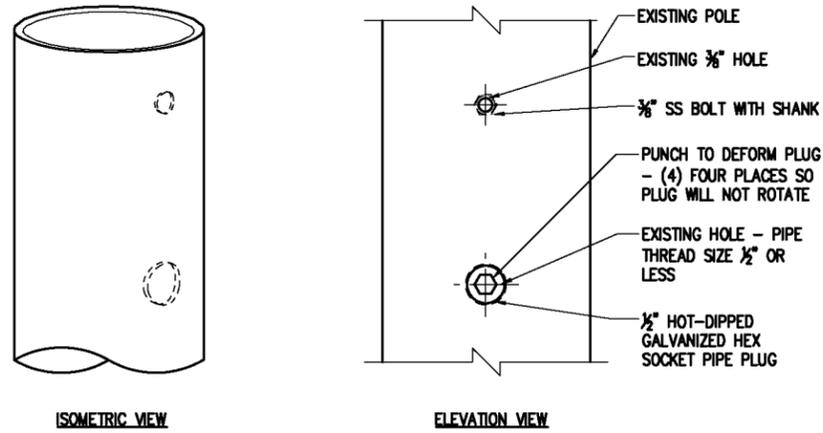
EXISTING	NEW	DESCRIPTION
		ROADWAY (COBRA STYLE) LUMINAIRE
		TYPE III SIGNAL POLE WITH COBRA HEAD AND MAST ARM
		TYPE PPB SIGNAL POLE
		ELECTRICAL SERVICE CABINET
		TRAFFIC CONTROLLER CABINET
		JUNCTION BOX TYPE 1 & 2
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE
		SIGNAL POLE NOTE

LUMINAIRE SCHEDULE

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
9	WILLOWS RD 35+99.9	13.0' RT	88W, 4000K, TYPE III, B2-U0-G3, 240V	6'	35'	BREAKAWAY	EX	
10	WILLOWS RD 37+80.5	14.5' RT	88W, 4000K, TYPE III, B2-U0-G3, 240V	6'	35'	BREAKAWAY	EX	

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EXAMPLE OF REPAIR FROM PPB LOCATION -
1/2" AND 3/8" DIAMETER HOLES SHOWN

FOR UNC OR UNF THREADS:

1. APPLY SILICONE CAULK TO THREADS OF SS BOLT WITH SHANK.
2. TIGHTEN SS BOLT UNTIL SHANK IS TIGHT AGAINST STANDARD.
3. CUT OFF SS BOLT EVEN WITH STANDARD.
4. FILE SS BOLT TO MATCH CONTOUR OF STANDARD.
5. TREAT SS BOLT AND SURROUNDING POLE WITH GALVANIZING REPAIR PAINT MEETING THE REQUIREMENT OF STANDARD SPECIFICATION 9-08.1(2).
6. APPLY TWO COATS. PAINT SHALL BE DRY BEFORE APPLYING SECOND COAT.

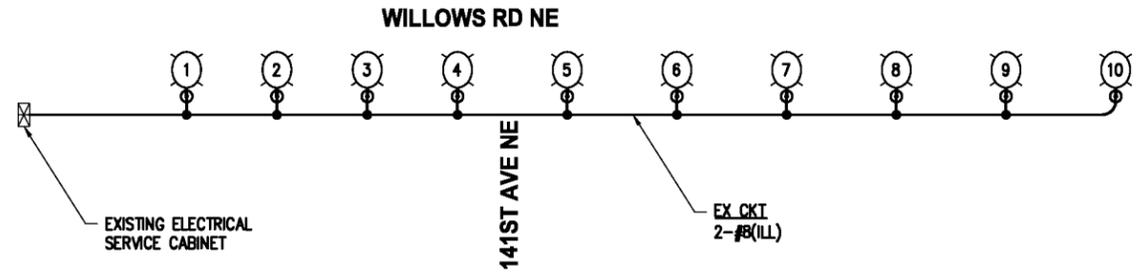
FOR NATIONAL PIPE THREADS:

1. APPLY SILICONE CAULK TO THREADS OF HOT-DIPPED GALVANIZED HEX SOCKET PIPE PLUG.
2. TIGHTEN PLUG UNTIL FLUSH WITH STANDARD.
3. FILE PLUG TO MATCH CONTOUR OF STANDARD.
4. FILL HEX SOCKET WITH PAINTABLE SILICONE CAULK.
5. TREAT PLUG AND SURROUNDING POLE WITH GALVANIZING REPAIR PAINT MEETING THE REQUIREMENT OF STANDARD SPECIFICATION 9-08.1(2).
6. APPLY TWO COATS. PAINT SHALL BE DRY BEFORE APPLYING SECOND COAT.

HOLE REPAIR PROCEDURE - BOLT HOLE SIZE 1/2 INCH DIAMETER OR LESS

NTS

NE 124TH ST



ONE LINE DIAGRAM

NTS

ONE LINE DIAGRAM LEGEND

EXISTING	NEW	DESCRIPTION
		ROADWAY LUMINAIRE AND POLE
		SPLICE
		ELECTRICAL SERVICE CABINET

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NO.	DATE	BY	APPR.	REVISIONS

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ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

ILLUMINATION DETAILS

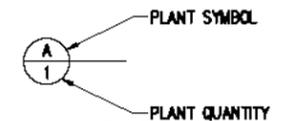
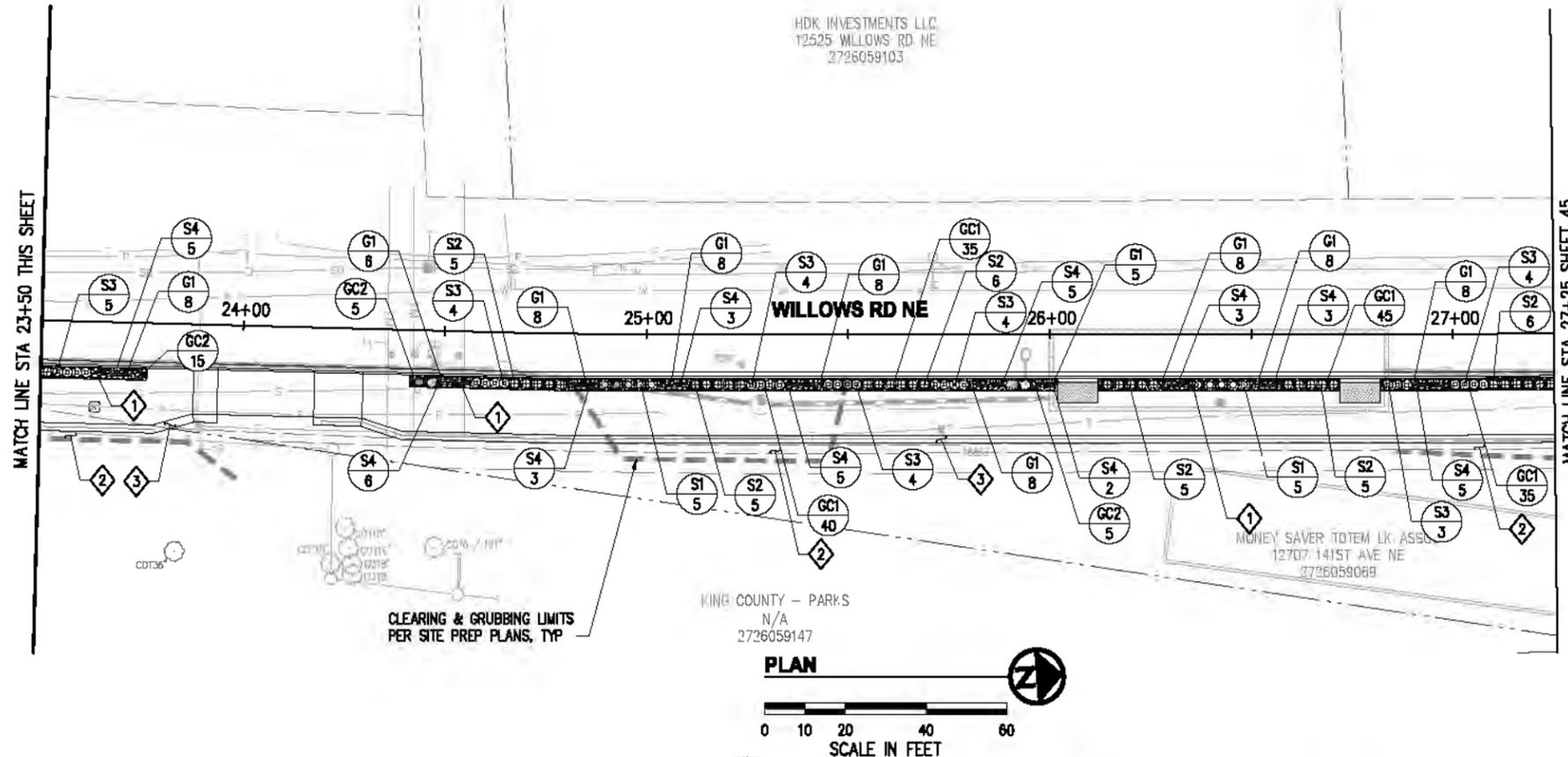
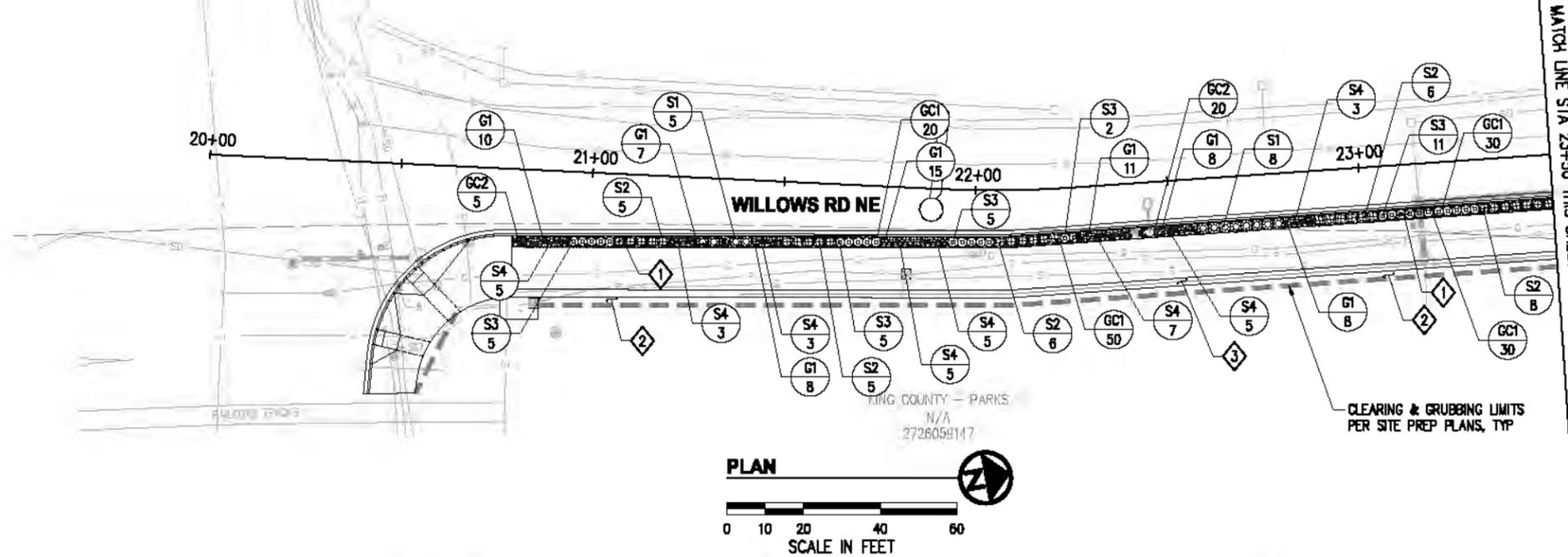
KPG PROJECT No. 17132 SHT 43 OF 53

NE 124TH ST

NABTESCO AEROSPACE INC
12413 WILLOWS RD NE
2726059025

CONSTRUCTION NOTES

- 1 ROADWAY PLANTER AREA; INSTALL 12" TOPSOIL TYPE A AS OUTLINED IN THE SPECIAL PROVISIONS AND TOPDRESS WITH 3" BARK OR WOOD CHIP MULCH, TYP.
- 2 BACK-OF-WALK RESTORATION AREA; SEE RESTORATION TABLE, SHEET 6.
- 3 CONC. SHOULDER, SEE TYPICAL SECTIONS SHEET 4.



SEE SHEET 47 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES

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NO.	DATE	BY	APPR.	REVISIONS

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ENGINEERING MANAGER	DATE	TF DESIGNED BY 12/20/19
PROJECT MANAGER	DATE	TF DRAWN BY 12/20/19
PROJECT ENGINEER	DATE	CS CHECKED BY 12/20/19



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01/03/20



CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

LANDSCAPE PLAN
WILLOWS RD NE
STA 20+00 TO STA 27+25
KPG PROJECT No. 17132 SHT 44 OF 53

WWD PROPERTIES LLC
12611 WILLOWS RD NE
2726059008

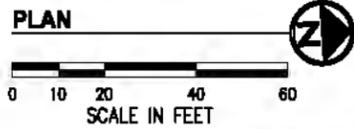
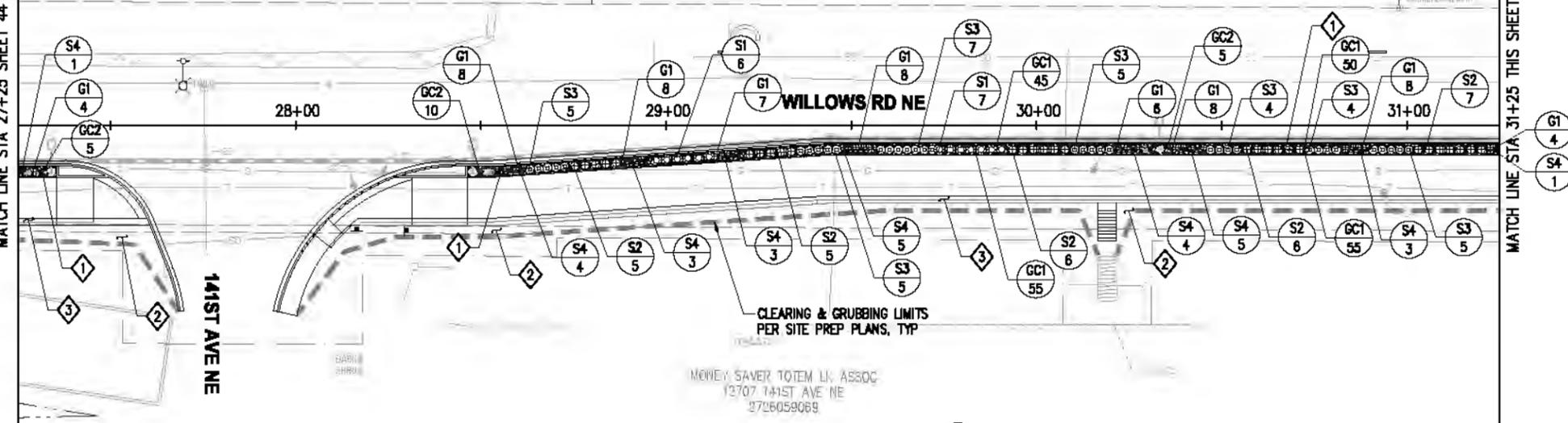
RC 124TH LLC
N/A
2726059143

CONSTRUCTION NOTES

- 1 ROADWAY PLANTER AREA; INSTALL 12" TOPSOIL TYPE A AS OUTLINED IN THE SPECIAL PROVISIONS AND TOPDRESS WITH 3" BARK OR WOOD CHIP MULCH, TYP.
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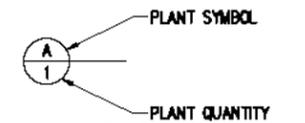
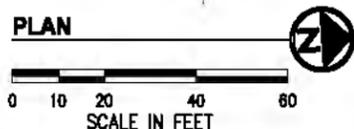
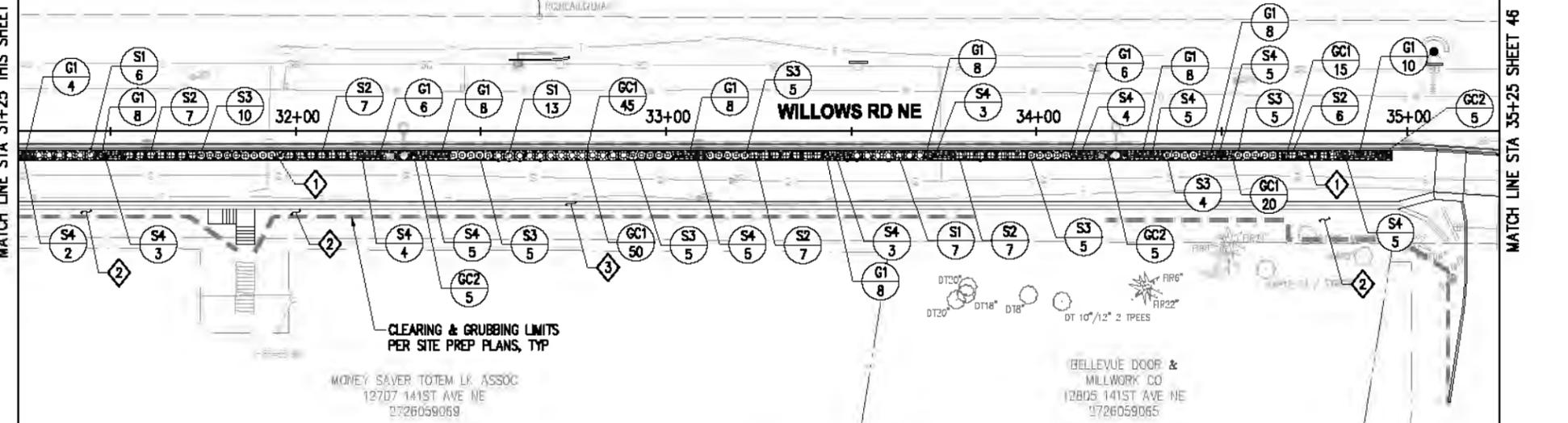
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MATCH LINE STA 31+25 THIS SHEET



MATCH LINE STA 31+25 THIS SHEET

MATCH LINE STA 35+25 SHEET 46



SEE SHEET 47 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES

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PROJECT ENGINEER	DATE	CS	CHECKED BY	122019	DATE



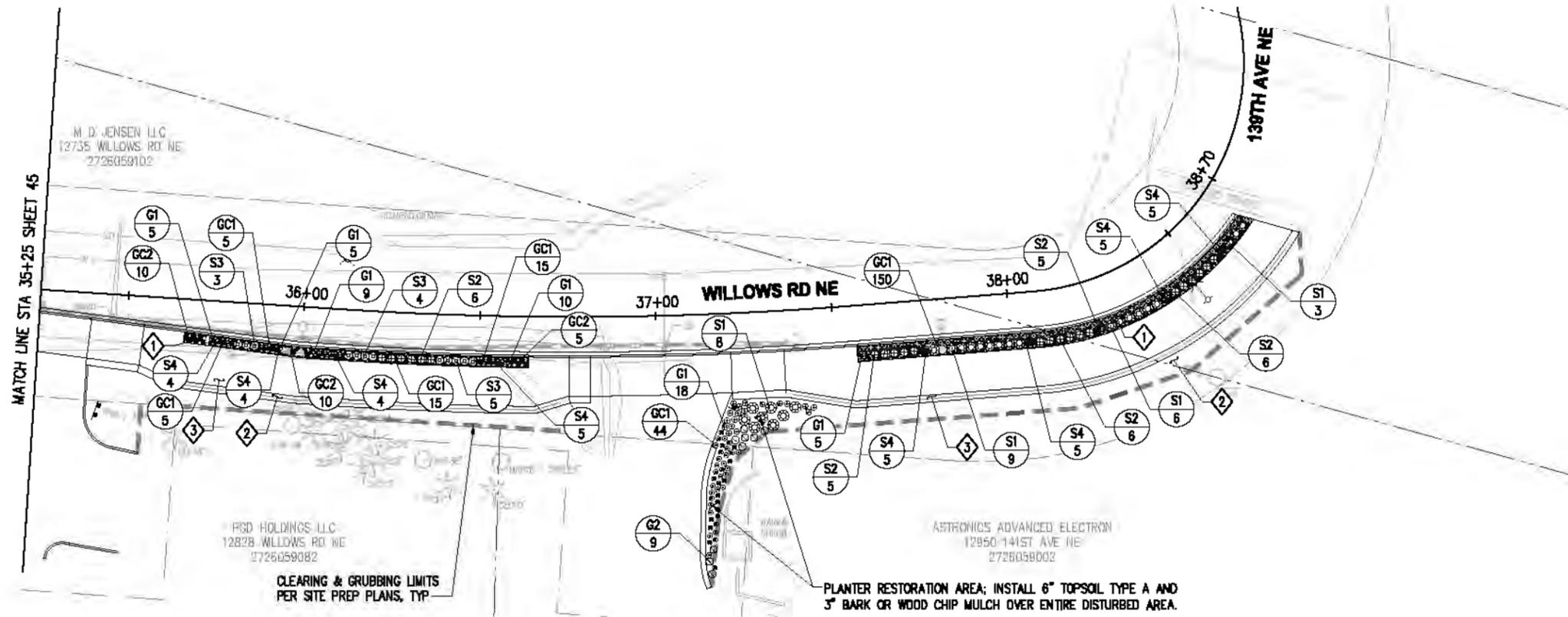
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CITY OF KIRKLAND
CKG TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

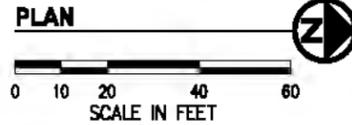
LANDSCAPE PLAN
WILLOWS RD NE
STA 27+25 TO STA 35+25
KPG PROJECT No. 17132 SHT 45 OF 53

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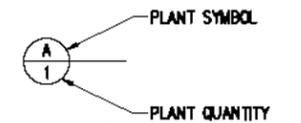
CONSTRUCTION NOTES

- 1 ROADWAY PLANTER AREA; INSTALL 12" TOPSOIL TYPE A AS OUTLINED IN THE SPECIAL PROVISIONS AND TOPDRESS WITH 3" BARK OR WOOD CHIP MULCH, TYP.
- 2 BACK-OF-WALK RESTORATION AREA; SEE RESTORATION TABLE, SHEET 6.
- 3 CONC. SHOULDER, SEE TYPICAL SECTIONS SHEET 4.



PLANTER RESTORATION AREA; INSTALL 6" TOPSOIL TYPE A AND 3" BARK OR WOOD CHIP MULCH OVER ENTIRE DISTURBED AREA.

CLEARING & GRUBBING LIMITS PER SITE PREP PLANS, TYP.



SEE SHEET 47 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES

NO.	DATE	BY	APPR.	REVISIONS

Approved By		17132LS01.dwg
ENGINEERING MANAGER	DATE	TF DESIGNED BY 12/20/19
PROJECT MANAGER	DATE	TF DRAWN BY 12/20/19
PROJECT ENGINEER	DATE	CB CHECKED BY 12/20/19



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CITY OF KIRKLAND
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WILLOWS RD NE

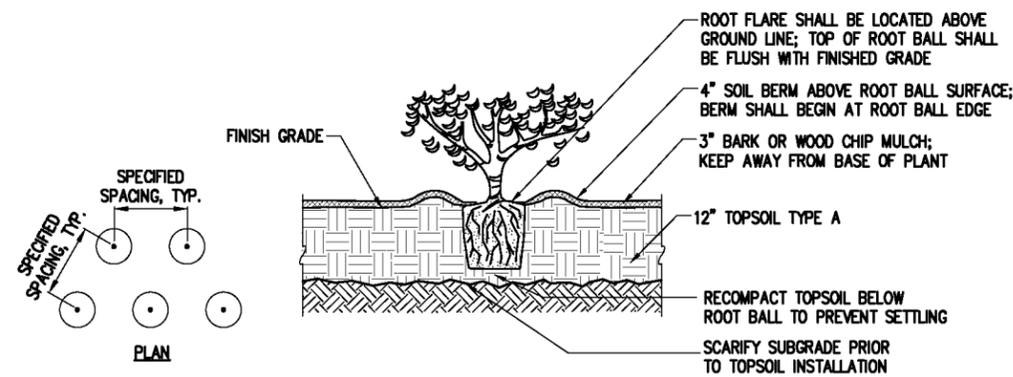
LANDSCAPE PLAN WILLOWS RD NE STA 35+25 TO STA 38+70			
KPG PROJECT No. 17132	SHT 46	OF 53	

PLANT SCHEDULE

SYMBOL	BOTANICAL NAME/COMMON NAME	QTY	SIZE	REMARKS
	SHRUBS, GRASSES, GROUNDCOVERS AND PERENNIALS			
	S1 CISTUS X CANESCENS / ROCKROSE	88	2 GAL. CONT.	FULL & BUSHY
	S2 COTONEASTER APICULATUS/ CRANBERRY COTONEASTER	148	2 GAL. CONT.	FULL & BUSHY
	S3 LAVANDULA STOECHAS 'SILVER ANOUK' / SILVER ANOUK LAVENDER	142	1 GAL. CONT.	FULL & BUSHY
	S4 MAHONIA REPENS/ LOW OREGON GRAPE	191	1 GAL. CONT.	FULL & BUSHY
	G1 NASSELLA TENUISSIMA / MEXICAN FEATHER GRASS	340	1 GAL. CONT.	FULL & BUSHY
	G2 SESLERIA AUTUMNALIS/ AUTUMN MOOR GRASS	9	1 GAL. CONT.	FULL & BUSHY
	GC1 RUBUS PENTALOBUS 'EMERALD CARPET' / EMERALD CARPET BRAMBLE	854	1 GAL. CONT.	18" O.C. TRI. SP. TYP.
	GC2 ALLIUM 'MILLENIUM'/ MILLENIUM ORNAMENTAL ONION	110	QUART CONT.	18" O.C. TRI. SP. TYP.

GENERAL NOTES

1. ALL PLANT MATERIALS SHALL MEET THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 MOST CURRENT VERSION.
2. PLANT, MAINTAIN AND WARRANTY AS PER SPECIAL PROVISIONS.
3. DO NOT SUBSTITUTE SPECIES WITHOUT THE APPROVAL OF ENGINEER.
5. PROPERTY RESTORATION TO BE DONE AS DIRECTED BY THE PROJECT ENGINEER.
6. ALL PLANTER AREAS TO RECEIVE 12" TOPSOIL TYPE A AND 3" BARK OR WOOD CHIP MULCH UNLESS OTHERWISE NOTED ON THE PLANS.
7. ALL DISTURBED AREAS NOT BEING PLANTED OR SEEDED SHALL RECEIVE 3" BARK OR WOOD CHIP MULCH.



TYPICAL SHRUB / GROUNDCOVER PLANTING DETAIL 1
NTS

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ENGINEERING MANAGER	DATE	FILENAME
PROJECT MANAGER	DATE	TF 12/2019
PROJECT ENGINEER	DATE	DESIGNED BY
	DATE	TF 12/2019
	DATE	DRAWN BY
	DATE	CS 12/2019
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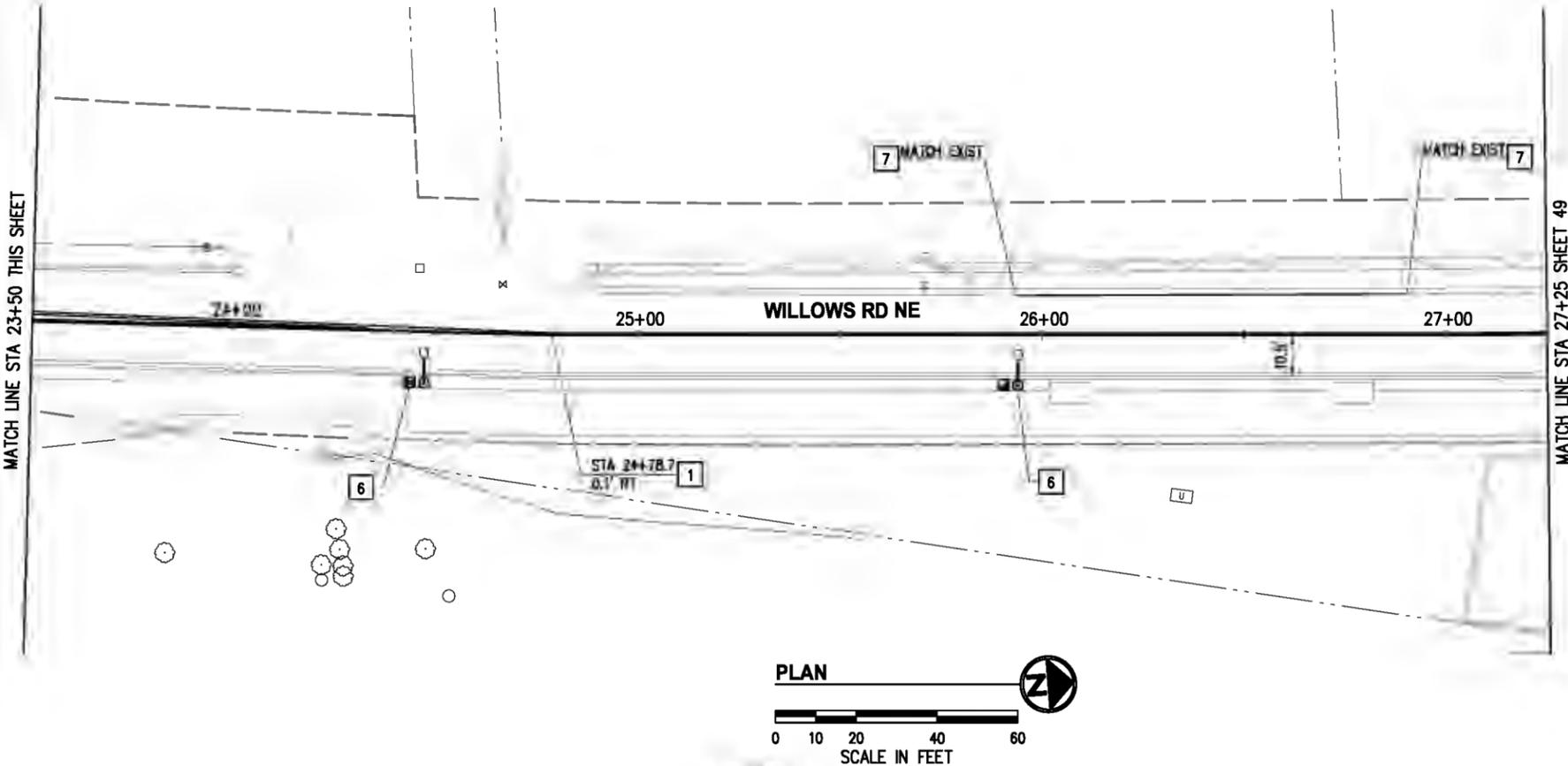
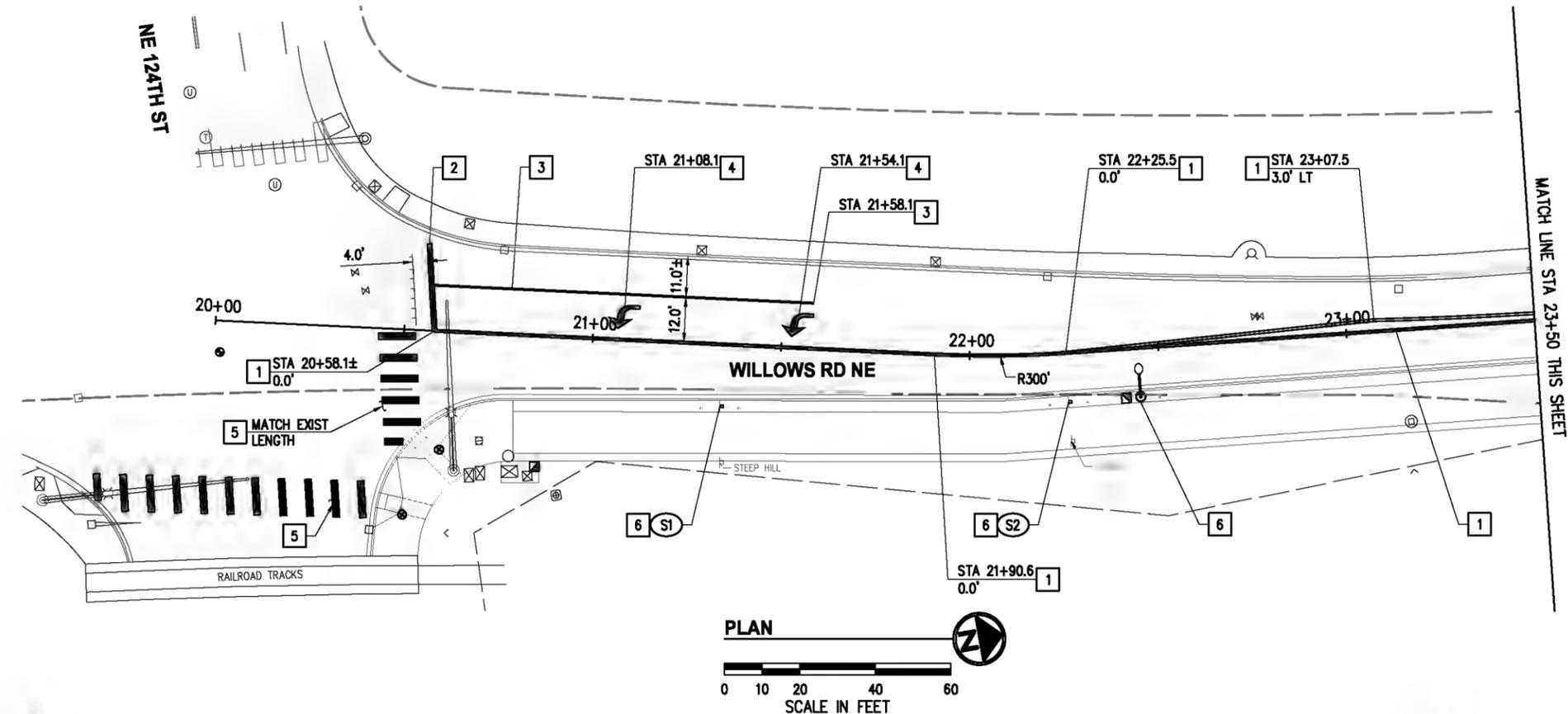
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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

LANDSCAPE SCHEDULE & DETAILS
KPG PROJECT No. 17132 SHT 47 OF 53

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GENERAL NOTES

1. ALL EXISTING STRIPING, MARKINGS, AND SIGNS IN CONFLICT WITH THE IMPROVEMENTS SHALL BE REMOVED.
2. CONTRACTOR SHALL PRESERVE AND PROTECT ALL SIGNS NOT SPECIFICALLY CALLED OUT FOR REMOVAL OR RELOCATION, UNLESS DIRECTED OTHERWISE.
3. ALL SYMBOLS SHALL BE CENTERED IN LANE.
4. ALL MARKINGS SHALL BE 4' CLEAR FROM CROSSWALKS.
5. ALL SIGNAGE AND MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD.
6. ALL SIGNS INSTALLED IN PROPOSED PLANTER SHALL HAVE MINIMUM 8' VERTICAL CLEARANCE FROM PATH.
7. ALL NEW AND RELOCATED SIGNS SHALL BE INSTALLED PER C.O.K. STD PLAN CK-R.43.

CONSTRUCTION NOTES

- 1 PAINTED DOUBLE YELLOW CENTERLINE PER C.O.K. STD PLAN CK-R.31
- 2 THERMOPLASTIC STOP BAR PER C.O.K. STD PLAN CK-R.28
- 3 PAINTED 8" WHITE GORE STRIPE PER C.O.K. STD PLAN CK-R.31
- 4 THERMOPLASTIC TRAFFIC ARROW PER WSDOT STD PLAN M-24.40
- 5 THERMOPLASTIC CROSSWALK PER C.O.K. STD PLAN CK-R.28
- 6 INSTALL FLEXIBLE GUIDE POSTS PER DETAIL 1, SHEET 6
- 7 PAINTED WHITE EDGE LINE PER WSDOT STD PLAN M-20.10.
- 8 4" YELLOW PAINT LINE

SIGN SCHEDULE				
SIGN NO.	STATION	OFFSET	DESIGNATION	REMARKS
S1	21+34.5	16.4' RT	W10-5MOD, W13-1MOD	NEW
S2	22+25.3	13.0' RT	R2-1 25 MPH	NEW

LEGEND

- EXISTING SIGN
- PROPOSED SIGN
- SIGN SCHEDULE NOTE
- LUMINAIRE & JUNCTION BOX, SEE SHEETS 38-42

NO.	DATE	BY	APPR.	REVISIONS

Approved By		17132CHAN.dwg
ENGINEERING MANAGER	DATE	DESIGNED BY 12/2019
PROJECT MANAGER	DATE	DG 12/2019
PROJECT ENGINEER	DATE	DG 12/2019
		EEO 12/2019
		CHECKED BY 12/2019



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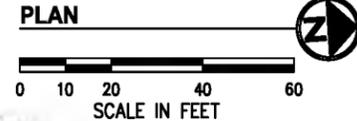
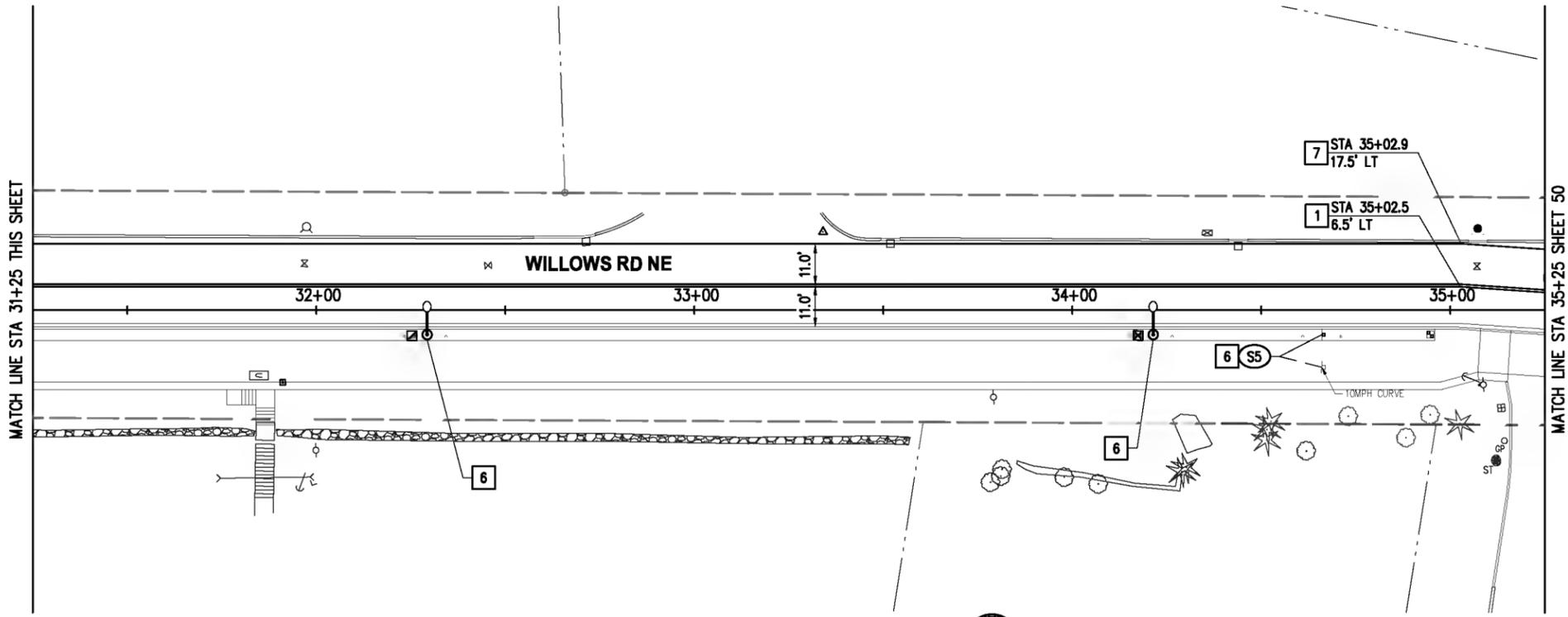
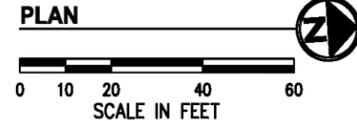
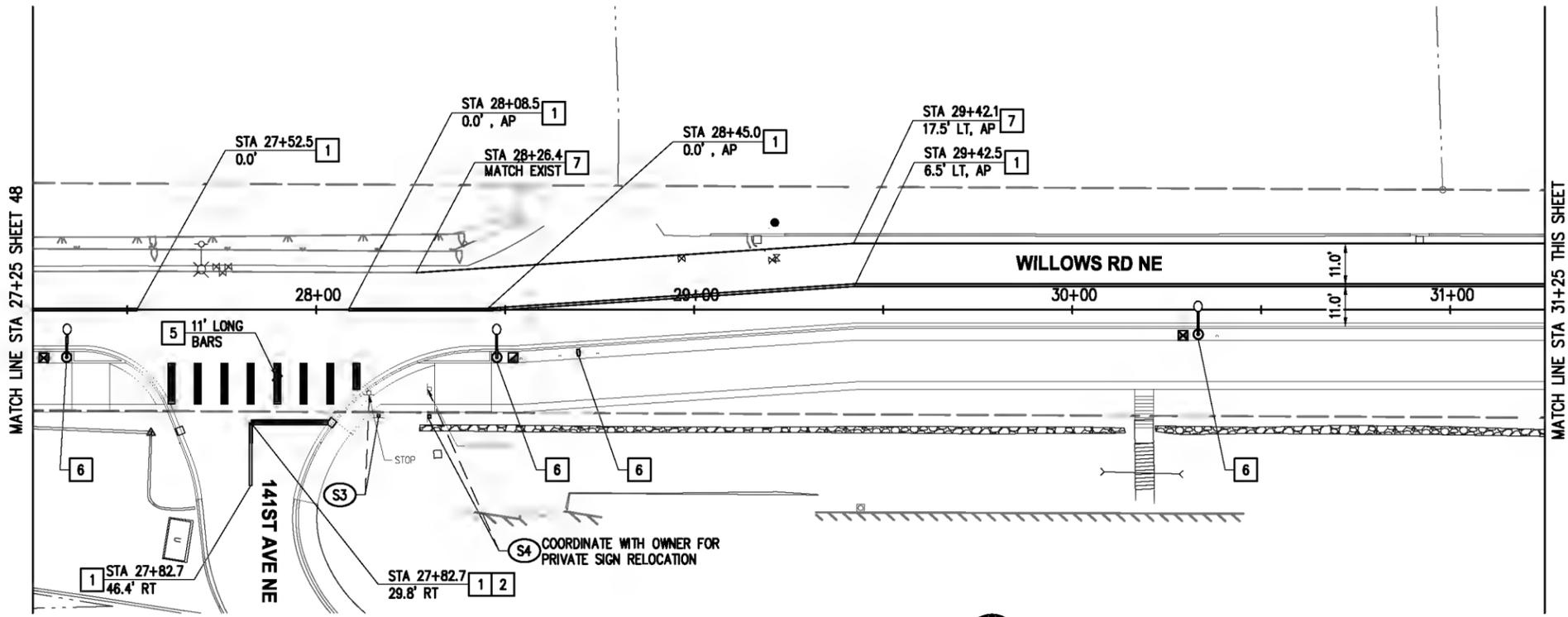
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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

CHANNELIZATION & SIGNING PLAN
WILLOWS RD NE
STA 20+00 TO STA 27+25
KPG PROJECT No. 17132 SHT 48 OF 53

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SIGN SCHEDULE				
SIGN NO.	STATION	OFFSET	DESIGNATION	REMARKS
S3	28+16.5	28.4' RT	R1-1	RELOCATE
S4	28+29.4	28.2' RT	PRIVATE	RELOCATE
S5	34+66.0	6.5' RT	W1-901L, W13-1 10 MPH	NEW

LEGEND

- EXISTING SIGN
- PROPOSED SIGN
- SIGN SCHEDULE NOTE
- LUMINAIRE & JUNCTION BOX, SEE SHEETS 38-42

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT MANAGER	DATE	DESIGNED BY
PROJECT ENGINEER	DATE	DATE
		12/2019
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		DRAWN BY
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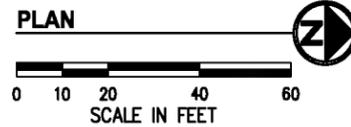
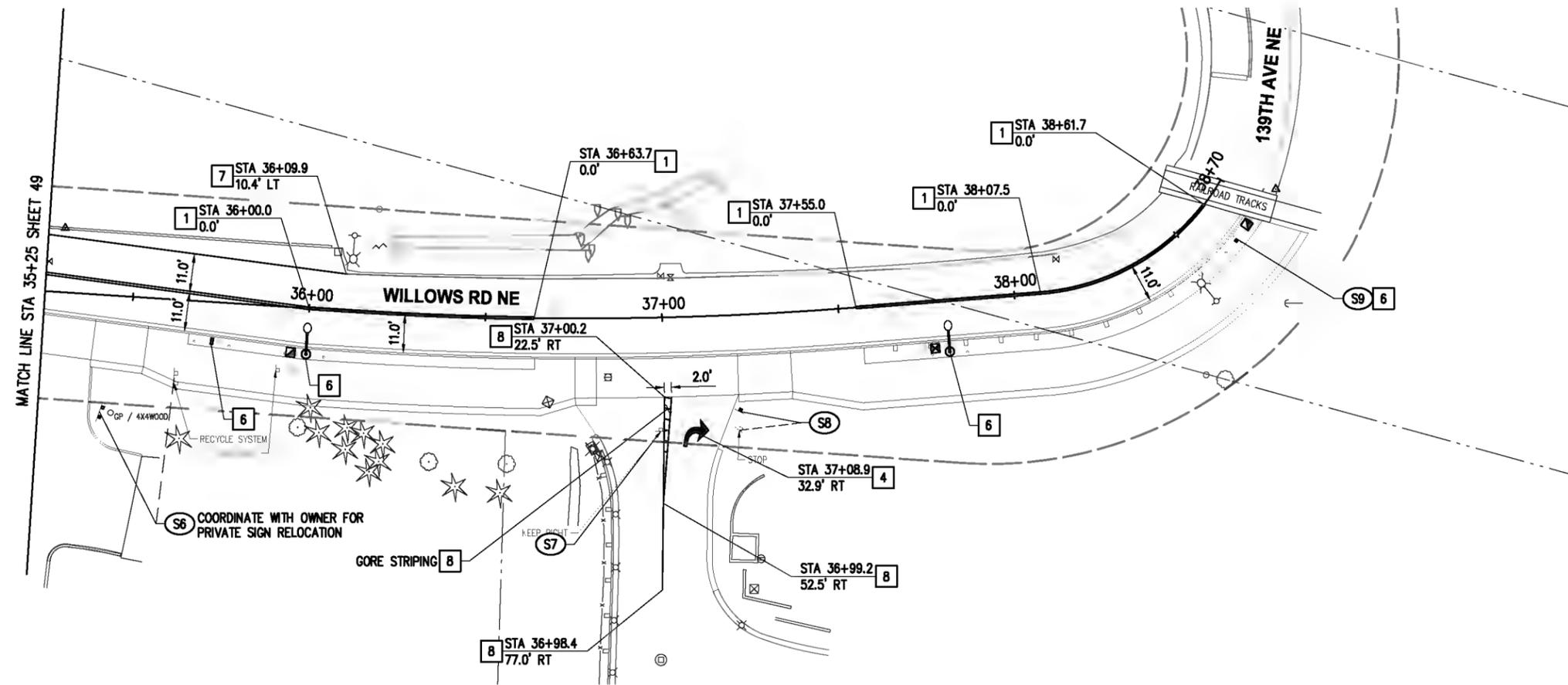
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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

CHANNELIZATION & SIGNING PLAN
WILLOWS RD NE
STA 27+25 TO STA 35+25
KPG PROJECT No. 17132 SHT 49 OF 53

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- 8 4" YELLOW PAINT LINE

SIGN SCHEDULE				
SIGN NO.	STATION	OFFSET	DESIGNATION	REMARKS
S6	35+42.6	33.0' RT	PRIVATE	RELOCATE
S7	36+98.9	32.2' RT	R4-7	REMOVE
S8	37+20.8	27.3' RT	R1-1, R3-5R	RELOCATE
S9	38+60.0	13.5' RT	W1-R2, W7-5	NEW

LEGEND

- EXISTING SIGN
- PROPOSED SIGN
- SIGN SCHEDULE NOTE
- LUMINAIRE & JUNCTION BOX, SEE SHEETS 38-42

NO.	DATE	BY	APPR.	REVISIONS

Approved By		FILENAME	DATE
ENGINEERING MANAGER	DATE	17132CHAN.dwg	12/2019
PROJECT MANAGER	DATE	DESIGNED BY	12/2019
PROJECT ENGINEER	DATE	DRAWN BY	12/2019
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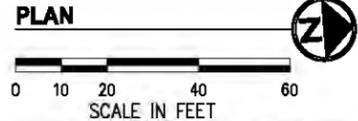
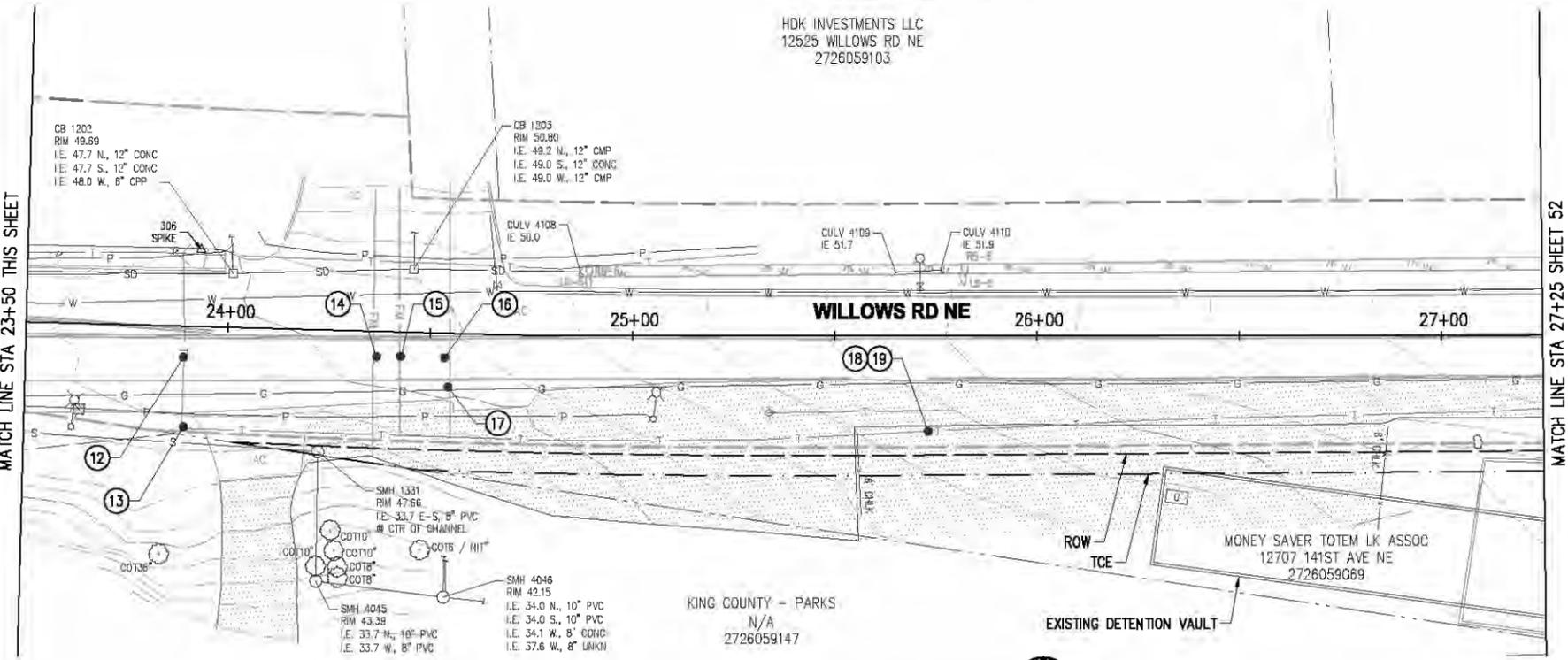
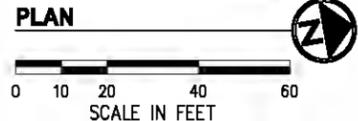
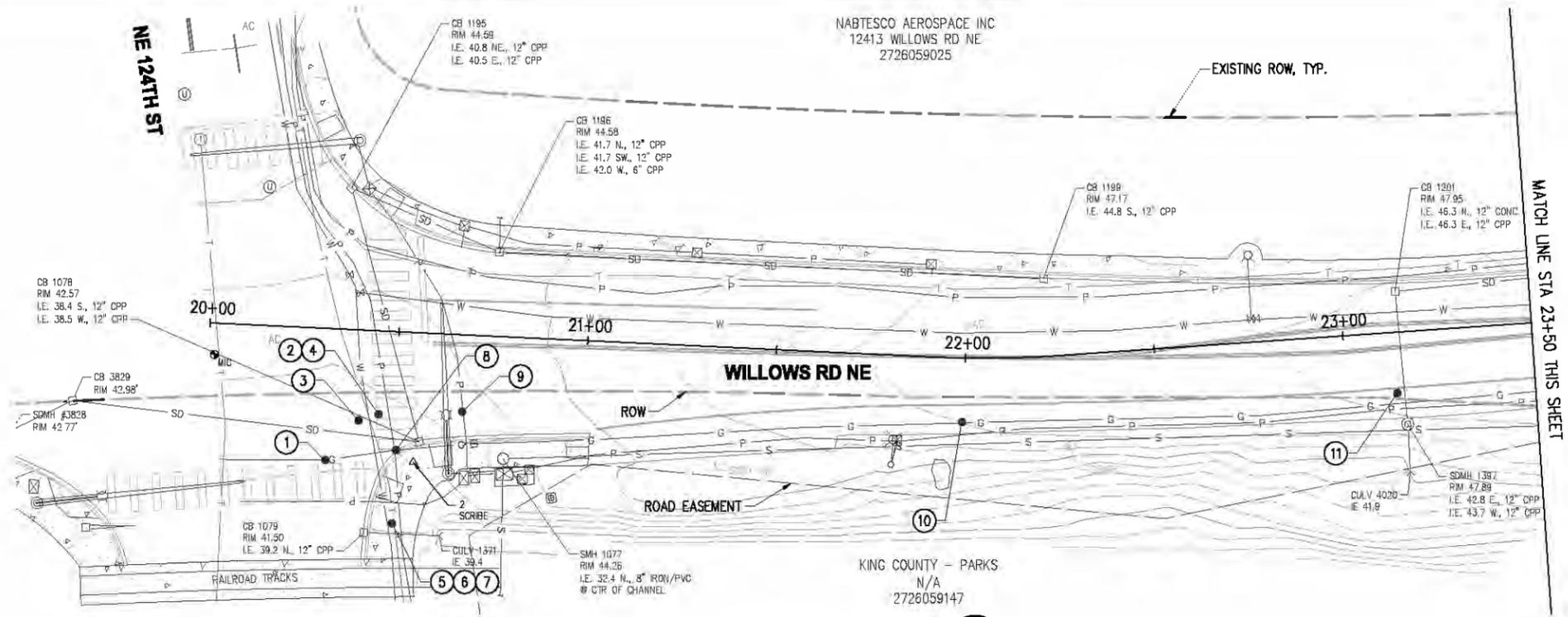
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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

CHANNELIZATION & SIGNING PLAN
WILLOWS RD NE
STA 35+25 TO STA 38+70
KPG PROJECT No. 17132 SHT 50 OF 53

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POTHoles							
#	STATION	OFFSET	EG	DESCRIPTION	TOP UTIL DEPTH (FT)	BOT UTIL DEPTH (FT)	PAVEMENT DEPTH (IN)
1	20+32.1	34.7' RT	42.10	PSE - GAS 2" PE	2.50	2.67	21
2	20+45.6	22.0' RT	42.67	FRONTIER - COM	NOT FOUND	NOT FOUND	18
3	20+40.4	23.9' RT	42.52	CITY OF KIRKLAND - WATER	NOT FOUND	NOT FOUND	18
4	20+45.6	22.0' RT	42.67	PSE - POWER	NOT FOUND	NOT FOUND	18
5	20+50.4	50.6' RT	42.05	CITY OF KIRKLAND - WATER 16" STEEL FND	7.42	8.75	6
6	20+50.4	50.6' RT	42.05	FRONTIER - COM	NOT FOUND	NOT FOUND	6
7	20+50.4	50.6' RT	42.05	PSE - POWER	NOT FOUND	NOT FOUND	6
8	20+50.6	31.2' RT	42.28	PSE - GAS 2" PE	2.33	2.50	14
9	20+67.6	20.3' RT	43.46	CITY OF KIRKLAND - POWER 4" PVC	2.50	2.83	14
10	21+99.4	16.9' RT	47.01	PSE - GAS 2" PE	3.00	3.17	13
11	23+13.3	16.1' RT	48.26	PSE - GAS	NOT FOUND	NOT FOUND	11
12	23+89.1	7.6' RT	49.39	COMCAST - COM 4" PVC	4.79	5.13	10
13	23+89.5	24.8' RT	48.69	COMCAST - COM 4" PVC	1.75	2.08	0
14	24+36.9	6.2' RT	50.24	KC METRO - SEWER 30" FORCE MAIN	8.58	11.08	8
15	24+42.7	6.0' RT	50.35	KC METRO - SEWER 48" FORCE MAIN	8.92	12.92	8
16	24+53.6	6.0' RT	50.63	WOODINVILLE WATER DISTRICT - SEWER 8" CONC	7.33	8.00	6
17	24+54.6	13.3' RT	50.29	PSE - GAS 2" PE	2.92	3.08	6
18	25+73.1	23.5' RT	53.54	FRONTIER - COM	NOT FOUND	NOT FOUND	0
19	25+73.1	23.5' RT	53.54	COMCAST - COM 4" PVC	3.00	3.33	0

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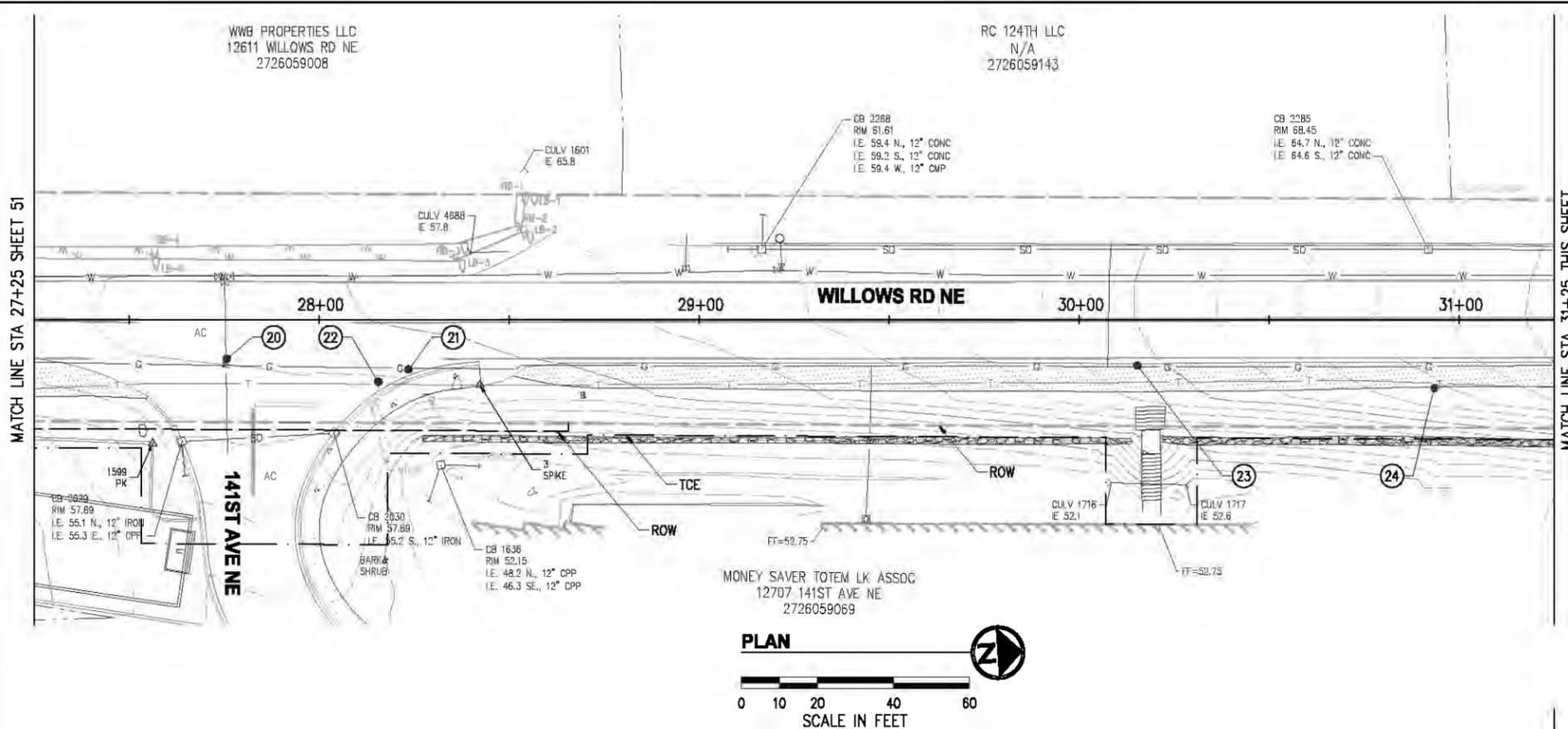
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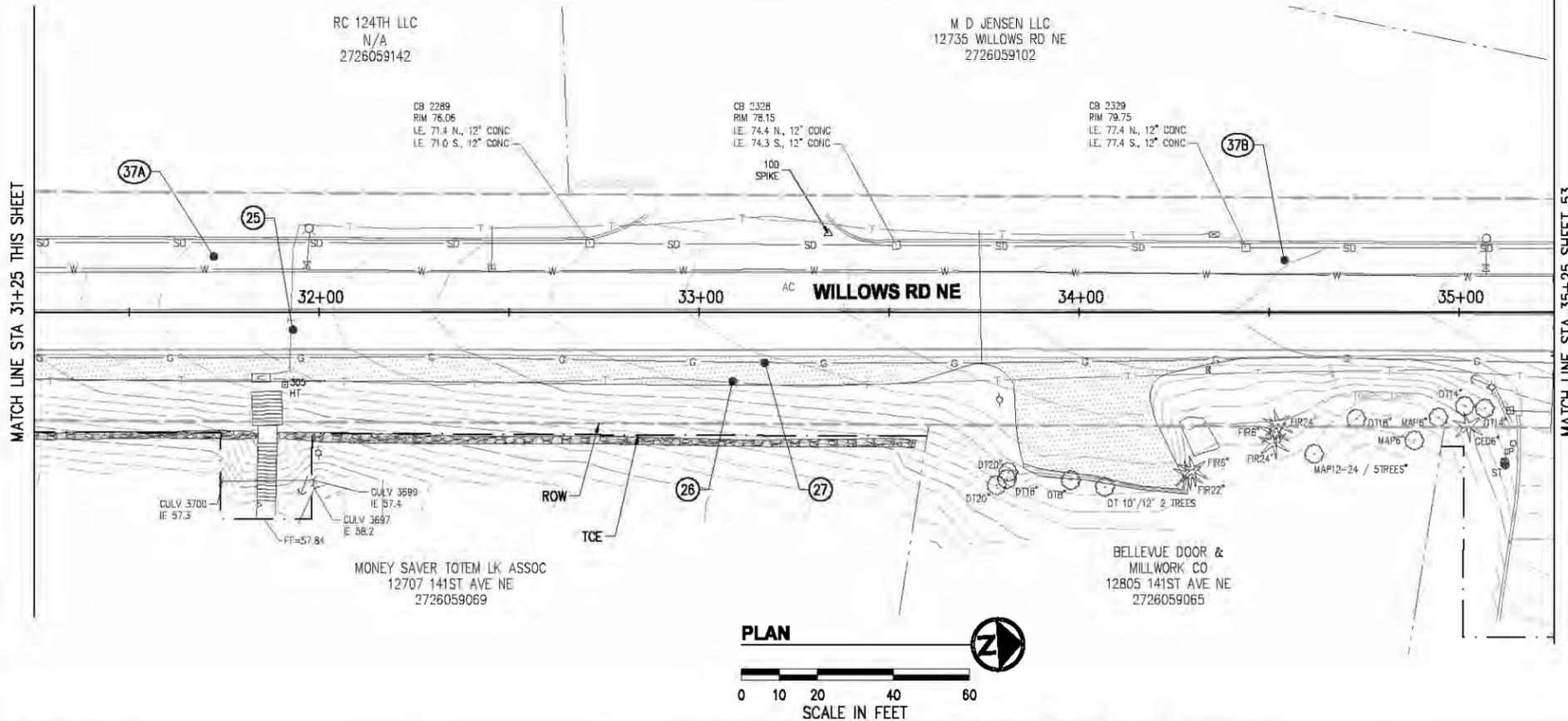


CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

EXISTING CONDITIONS & POTHOLES PLAN	
WILLOWS RD NE	
STA 20+00 TO STA 27+25	
KPG PROJECT No. 17132	SHT 51 OF 53



POTHOLES							
#	STATION	OFFSET	EG	DESCRIPTION	TOP UTIL DEPTH (FT)	BOT UTIL DEPTH (FT)	PAVEMENT DEPTH (IN)
20	27+75.7	10.2' RT	59.14	CITY OF KIRKLAND - WATER 12" DI	4.17	5.17	12
21	28+23.6	13.0' RT	59.25	PSE - GAS 2" PE	2.75	2.92	8
22	28+15.7	16.2' RT	58.88	COMCAST - COM 4" PVC	3.50	3.83	6
23	30+15.4	12.0' RT	64.64	PSE - GAS 2" PE	3.33	3.50	0
24	30+93.6	17.9' RT	67.79	COMCAST COM	NOT FOUND	NOT FOUND	0
25	31+93.2	4.6' RT	73.48	COMCAST - COM 4" PVC	5.50	5.83	8
26	33+08.9	18.2' RT	76.31	COMCAST - COM 4" PVC	3.92	4.25	0
27	33+17.4	13.3' RT	76.83	PSE - GAS 2" PE	2.83	3.00	0
37B	34+54.1	13.6' LT	79.96	CITY OF KIRKLAND - PAVEMENT DEPTH	N/A	N/A	6
37A	31+72.4	14.6' LT	72.38	CITY OF KIRKLAND - PAVEMENT DEPTH	N/A	N/A	6



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Approved By		FILENAME	DATE
ENGINEERING MANAGER	DATE	17132EXCOND-RW.dwg	12/2019
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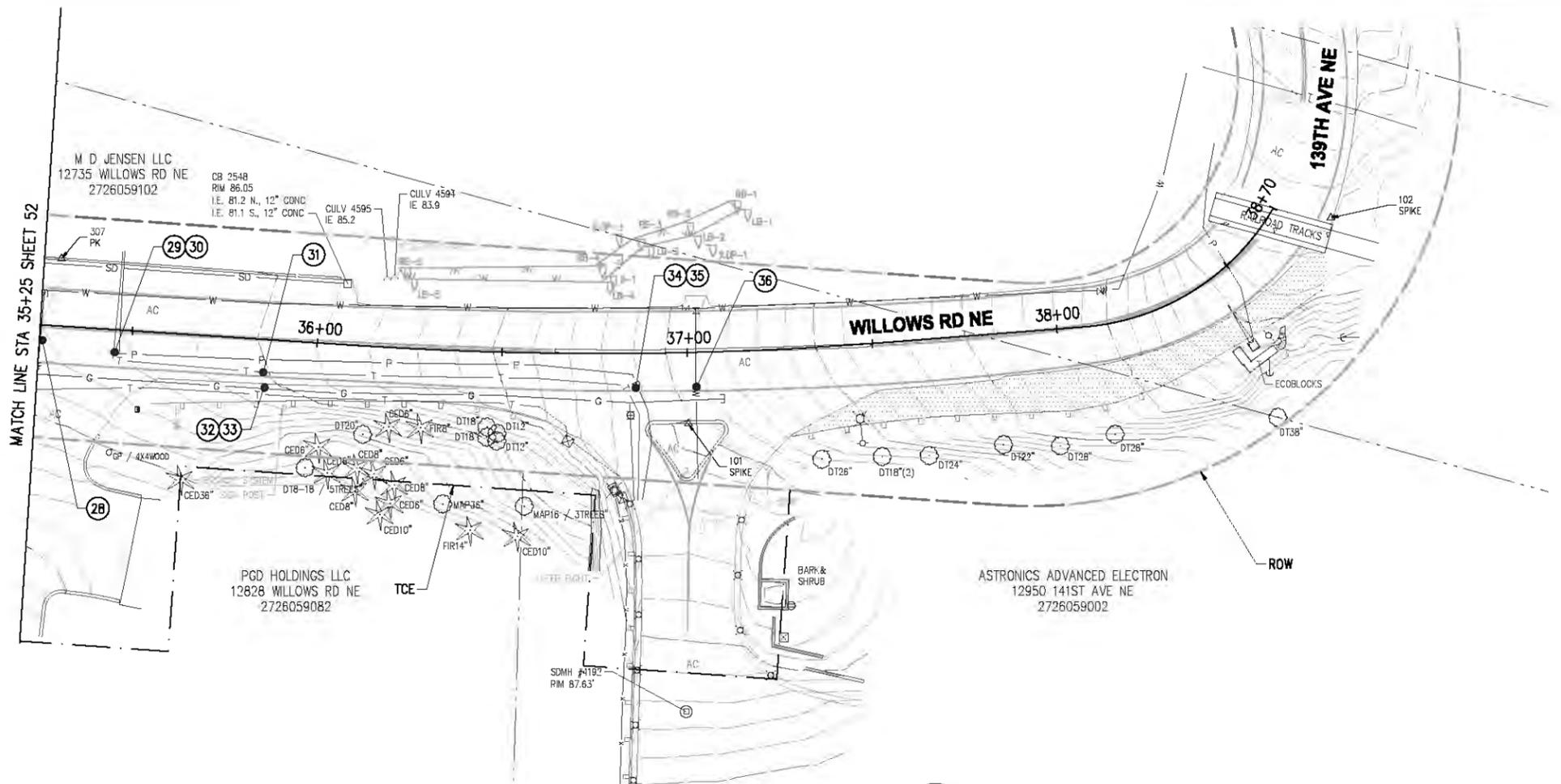
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CITY OF KIRKLAND
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EXISTING CONDITIONS & POT HOLE PLAN	
WILLOWS RD NE	
STA 27+25 TO STA 35+25	
KPG PROJECT No. 17132	SHT 52 OF 53



POTHOLES							
#	STATION	OFFSET	EG	DESCRIPTION	TOP UTIL DEPTH (FT)	BOT UTIL DEPTH (FT)	PAVEMENT DEPTH (IN)
28	35+25.8	4.1' RT	81.92	CITY OF KIRKLAND - WATER 16" DI	2.00	3.33	10
29	35+45.5	6.1' RT	82.78	PSE - POWER 4" PVC	2.92	3.25	6
30	35+45.5	6.1' RT	82.78	FRONTIER - COM (2) 4" PVC	2.92	3.58	6
31	35+85.9	8.9' RT	84.91	FRONTIER - COM 4" PVC	3.50	3.83	8
32	35+86.6	12.9' RT	84.67	PSE - GAS 2" PE	3.50	3.67	0
33	35+86.6	12.9' RT	84.67	COMCAST - COM SIZE UNK	5.33	NOT FOUND	0
34	36+85.9	9.3' RT	93.83	FRONTIER - COM (2) 4" PVC	2.67	3.83	8
35	36+85.9	9.3' RT	93.83	PSE - POWER 4" PVC	4.17	4.50	8
36	37+02.2	9.3' RT	95.68	CITY OF KIRKLAND - WATER	NOT FOUND	NOT FOUND	10

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CITY OF KIRKLAND
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WILLOWS RD NE

EXISTING CONDITIONS & POT HOLE PLAN WILLOWS RD NE STA 35+25 TO STA 38+70		
KPG PROJECT No. 17132	SHT 53	OF 53

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CITY OF KIRKLAND



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JANUARY 2020

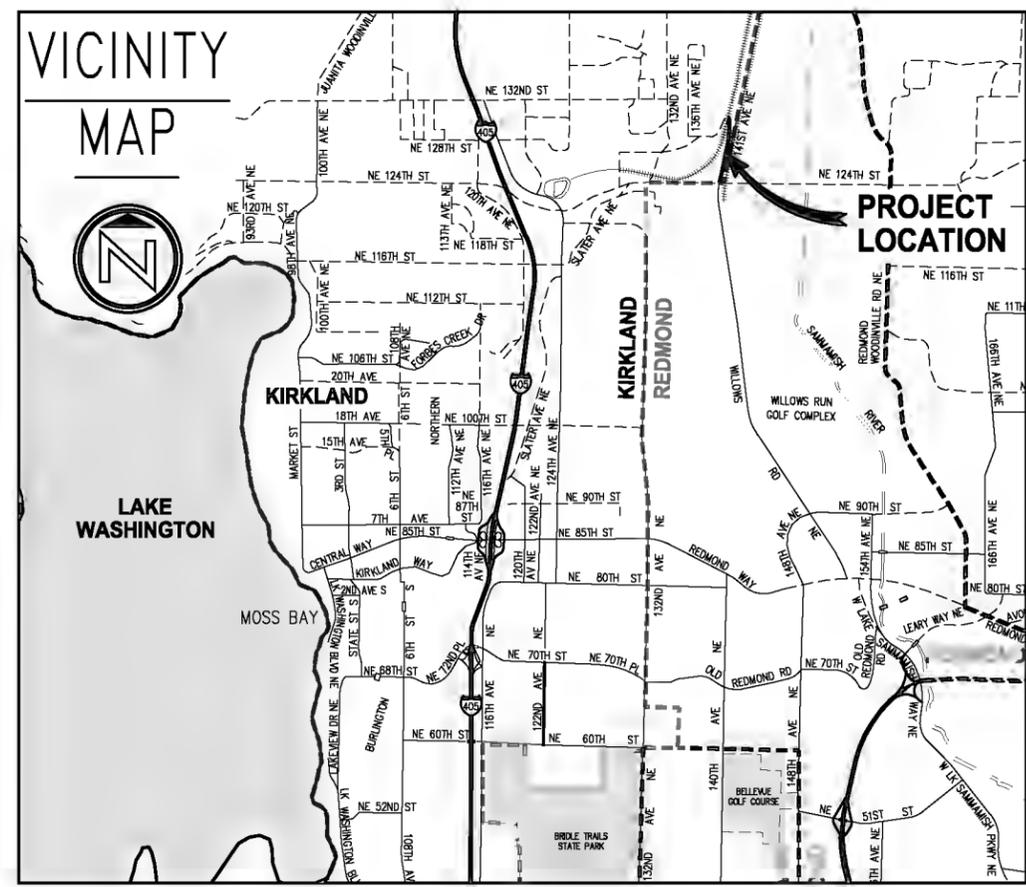


CITY OFFICIALS

PENNY SWEET	MAYOR
JAY ARNOLD	DEPUTY MAYOR
NEAL BLACK	COUNCIL MEMBER
KELLI CURTIS	COUNCIL MEMBER
AMY FALCONE	COUNCIL MEMBER
TOBY NIXON	COUNCIL MEMBER
JON PASCAL	COUNCIL MEMBER
KURT TRIPLETT	CITY MANAGER
JULIE UNDERWOOD	INTERIM PUBLIC WORKS DIRECTOR
ROD STEITZER	CAPITAL PROJECTS MANAGER

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ONE CALL UTILITY LOCATES		811



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INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LEGEND & ABBREVIATIONS
3	ALIGNMENT & SURVEY CONTROL PLAN
4-5	EXISTING CONDITIONS PLAN
6	ROADWAY PLAN
7-10	TYPICAL DETAILS
11	C.O.K. STANDARD PLANS

EXISTING LEGEND

	MONUMENT IN CASE		TELEPHONE MANHOLE
	SURFACE MONUMENT		TELEPHONE RISER
	PK NAIL		TELEPHONE VAULT LID
	REBAR & CAP		TELEPHONE POLE
	SPOT SHOT (DESCRIBED)		TV MANHOLE
	CATCH BASIN		TV RISER
	STORM DRAIN MANHOLE		TV VAULT LID
	YARD DRAIN		FIBER OPTIC MANHOLE
	DOWNSPOUT		FIBER OPTIC VAULT LID
	STORM DRAIN CLEAN-OUT		GAS VALVE
	CULVERT		GAS METER
	SEWER MANHOLE		GAS MANHOLE
	SEWER CLEAN-OUT		WATER VALVE
	POWER POLE		WATER METER
	POWER POLE W/UNDERGROUND CONNECT		WATER MANHOLE
	POWER POLE WITH LUMINAIRE		WATER VAULT LID
	POWER POLE WITH LUMINAIRE & UG CONNECT		FIRE HYDRANT
	POWER MANHOLE		BLOW-OFF
	POWER RISER		FIRE DEPARTMENT CONNECT
	POWER VAULT LID		POST INDICATOR VALVE
	POWER TRANSFORMER		HOSE BIB
	POWER METER		IRRIGATION CONTROL VALVE
	POWER OUTLET		UTILITY MANHOLE (GENERIC/UNKNOWN)
	HIGH VOLTAGE POWER POLE		UTILITY VAULT LID (GENERIC/UNKNOWN)
	HIGH VOLTAGE POWER POLE W/UG CONNECT		UTILITY CLEAN-OUT (GENERIC/UNKNOWN)
	GUY POLE		UTILITY RISER (GENERIC/UNKNOWN)
	GUY ANCHOR		STAND-PIPE (GENERIC/UNKNOWN)
	TRAFFIC SIGNAL		UTILITY ACCESS (GENERIC/UNKNOWN)
	TRAFFIC SIGNAL WITH LUMINAIRE		BORE SITE (WITH FIELD DESCRIPTION)
	PEDESTRIAN SIGNAL		MONITORING WELL
	JUNCTION BOX		GUARD POST
	TRAFFIC CONTROL CABINET		BOULDER
	BACKUP POWER SUPPLY		SIGN
	INTERCONNECT CABINET		MAILBOX (# OF BOXES)
	ELECTRICAL SERVICE CABINET		SHRUB
	TRAFFIC ATTENUATOR LOOP		STUMP, DIAMETER
	STREET LIGHT (LUMINAIRE)		SNAG, DIAMETER (# OF TRUNKS)
	LOT LIGHT		DECIDUOUS TREE, DIAMETER (# OF TRUNKS)
	YARD LIGHT		CONIFEROUS TREE, DIAMETER (# OF TRUNKS)
	RAILROAD CROSSING ARM		
	RAILROAD CROSSING SIGNAL		

PROPOSED LEGEND

	REMOVE CURB & GUTTER OR EXTRUDED CURB
	REMOVE EXISTING PIPE
	FULL DEPTH SAWCUT
	CLEARING & GRUBBING LIMITS
	SILT FENCE
	CHAIN LINK FENCE
	APPROXIMATE FILL LINE
	CURB & GUTTER
	EXTRUDED CURB
	WALL
	CONDUIT
	STORM DRAIN LINE
	INLET PROTECTION
	REMOVE CONIFEROUS/DECIDUOUS TREE
	CATCH BASIN TYPE 1
	CATCH BASIN TYPE 2
	DIRECTIONAL FLOW ARROW
	JUNCTION BOX TYPE 1 & 2
	PEDESTRIAN PUSH BUTTON & POLE
	LUMINAIRE & JUNCTION BOX
	ROADWAY (COBRA STYLE) LUMINAIRE
	TYPE PPB SIGNAL POLE
	SIGN
	REMOVE CEMENT CONCRETE
	REMOVE ASPHALT CONCRETE
	PLANTER STRIP
	ASPHALT ROADWAY
	ASPHALT PATH
	ASPHALT DRIVEWAY, 2" COMMERCIAL HMA OVER 2" CSTC
	CEMENT CONC SHOULDER/WALL CAP
	CEMENT CONCRETE SIDEWALK
	CEMENT CONCRETE DRIVEWAY ENTRANCE
	2" CRUSHED SURFACING TOP COURSE (CSTC)
	CEMENT CONCRETE CURB RAMP
	DETECTABLE WARNING SURFACE

ABBREVIATIONS

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

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LEGEND & ABBREVIATIONS	
KPG PROJECT No. 17132	SHT <u>2</u> OF <u>11</u>

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CONTROL POINT LIST				
PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
2	SCRIBE	262328.20	1315290.66	42.80'
3	SPIKE	263115.44	1315363.03	59.72'
7*	SPIKE	263371.07	1314096.77	174.41'
100	SPIKE	263608.52	1315358.03	77.65'
101	SPIKE	263972.71	1315418.26	95.40'
102	SPIKE	264146.29	1315363.08	117.37'
103	SPIKE	264015.63	1315193.33	129.99'
104	PK	263635.21	1315049.59	140.08'
105	SPIKE	263629.28	1314727.14	172.33'
106*	SPIKE	263371.11	1314096.67	174.41'
200	HT	263849.49	1315158.51	131.07'
300	PK	263156.61	1315315.57	60.82'
305	HT	263463.26	1315388.14	72.77'
306	SPIKE	262670.44	1315291.16	50.11'
307	PK	263803.45	1315373.57	82.17'
1599	PK	263028.49	1315372.56	58.00'

* NOT SHOWN ON THIS SHEET

SURVEY NOTES

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE ONLY APPROXIMATIONS.

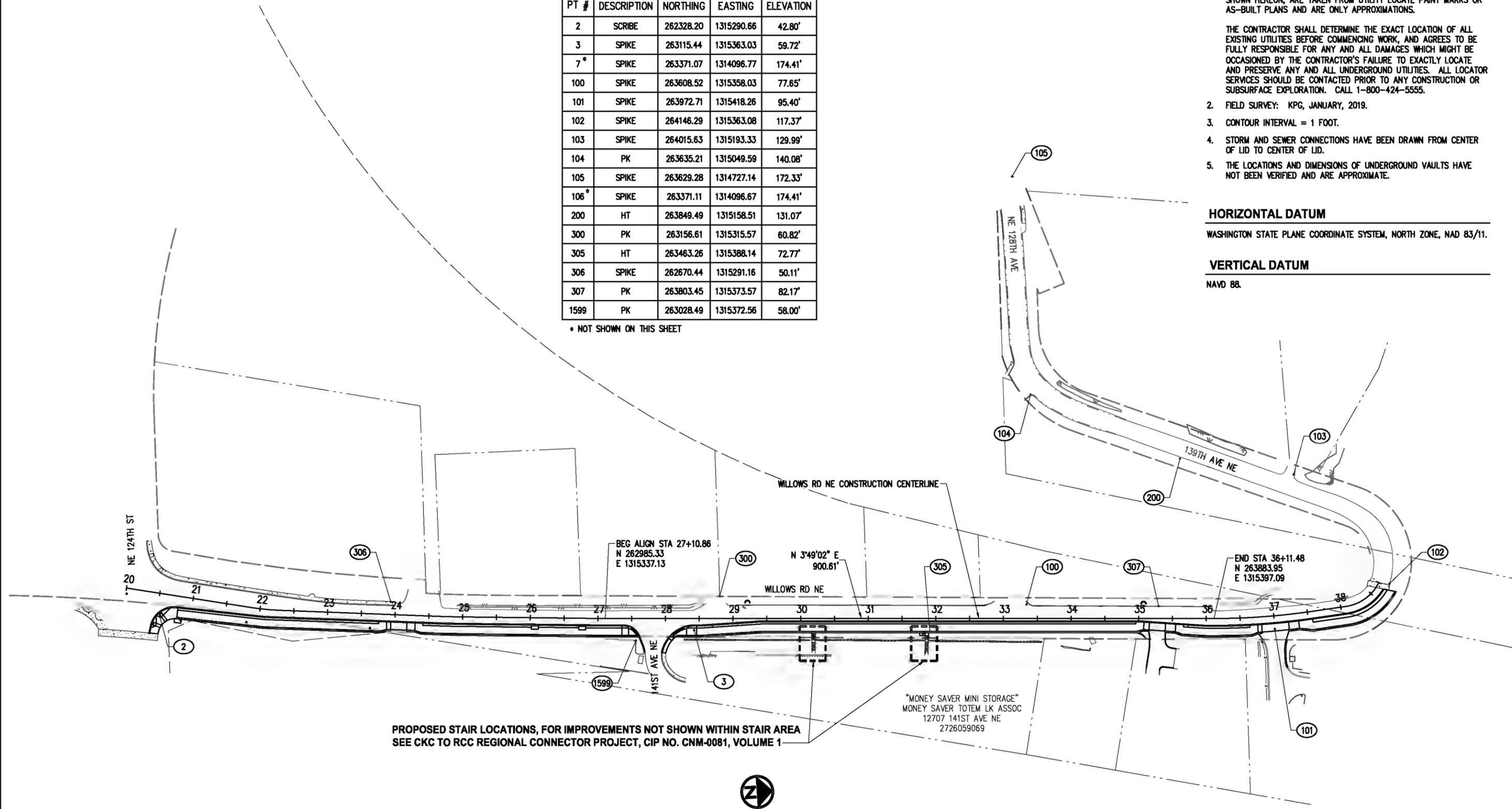
THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL LOCATOR SERVICES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION OR SUBSURFACE EXPLORATION. CALL 1-800-424-5555.
- FIELD SURVEY: KPG, JANUARY, 2019.
- CONTOUR INTERVAL = 1 FOOT.
- STORM AND SEWER CONNECTIONS HAVE BEEN DRAWN FROM CENTER OF LID TO CENTER OF LID.
- THE LOCATIONS AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/11.

VERTICAL DATUM

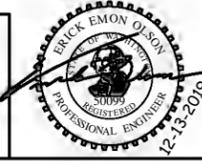
NAVD 88.



PROPOSED STAIR LOCATIONS, FOR IMPROVEMENTS NOT SHOWN WITHIN STAIR AREA
SEE CKC TO RCC REGIONAL CONNECTOR PROJECT, CIP NO. CNM-0081, VOLUME 1

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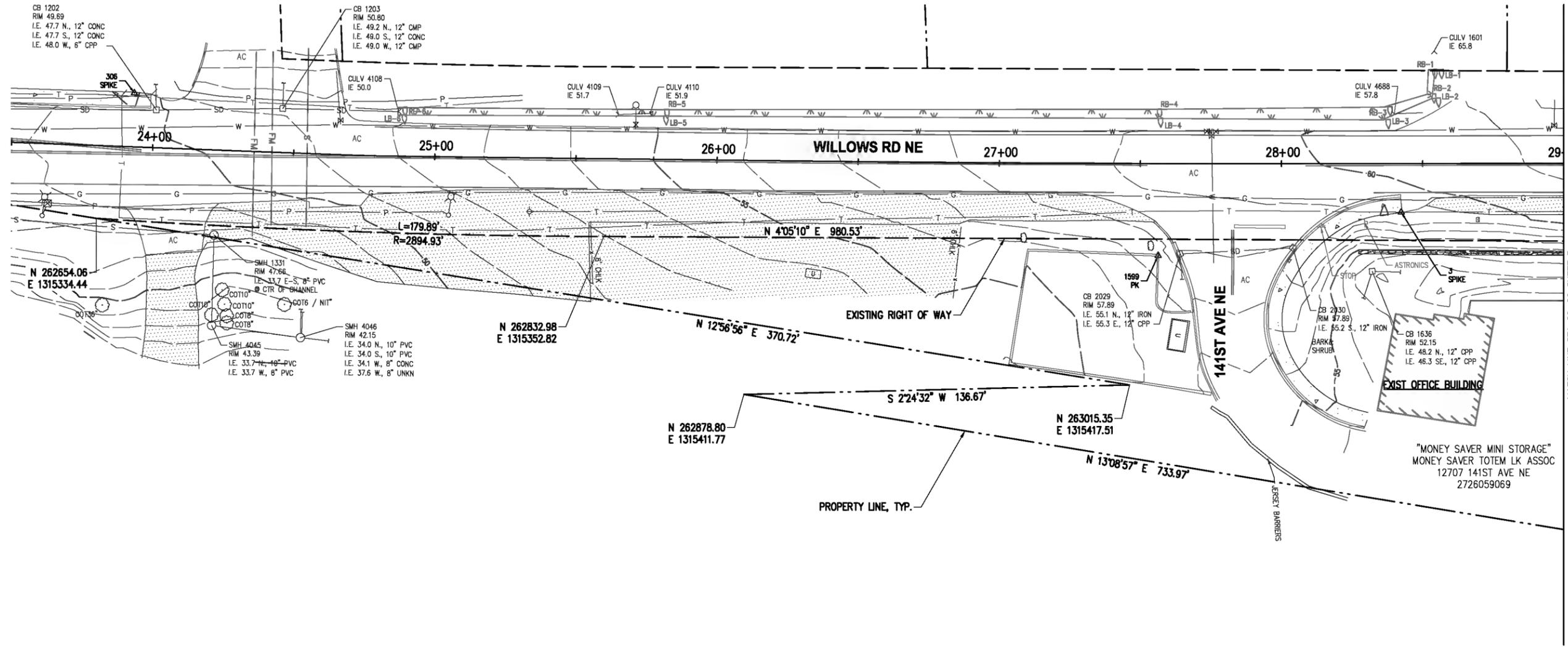
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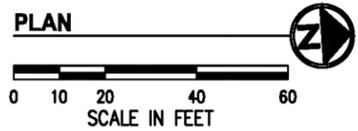
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CKC TO RCC REGIONAL CONNECTOR
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ALIGNMENT & SURVEY CONTROL PLAN
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MATCH LINE STA 29+00 SHEET 5



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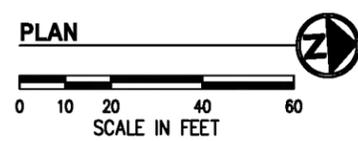
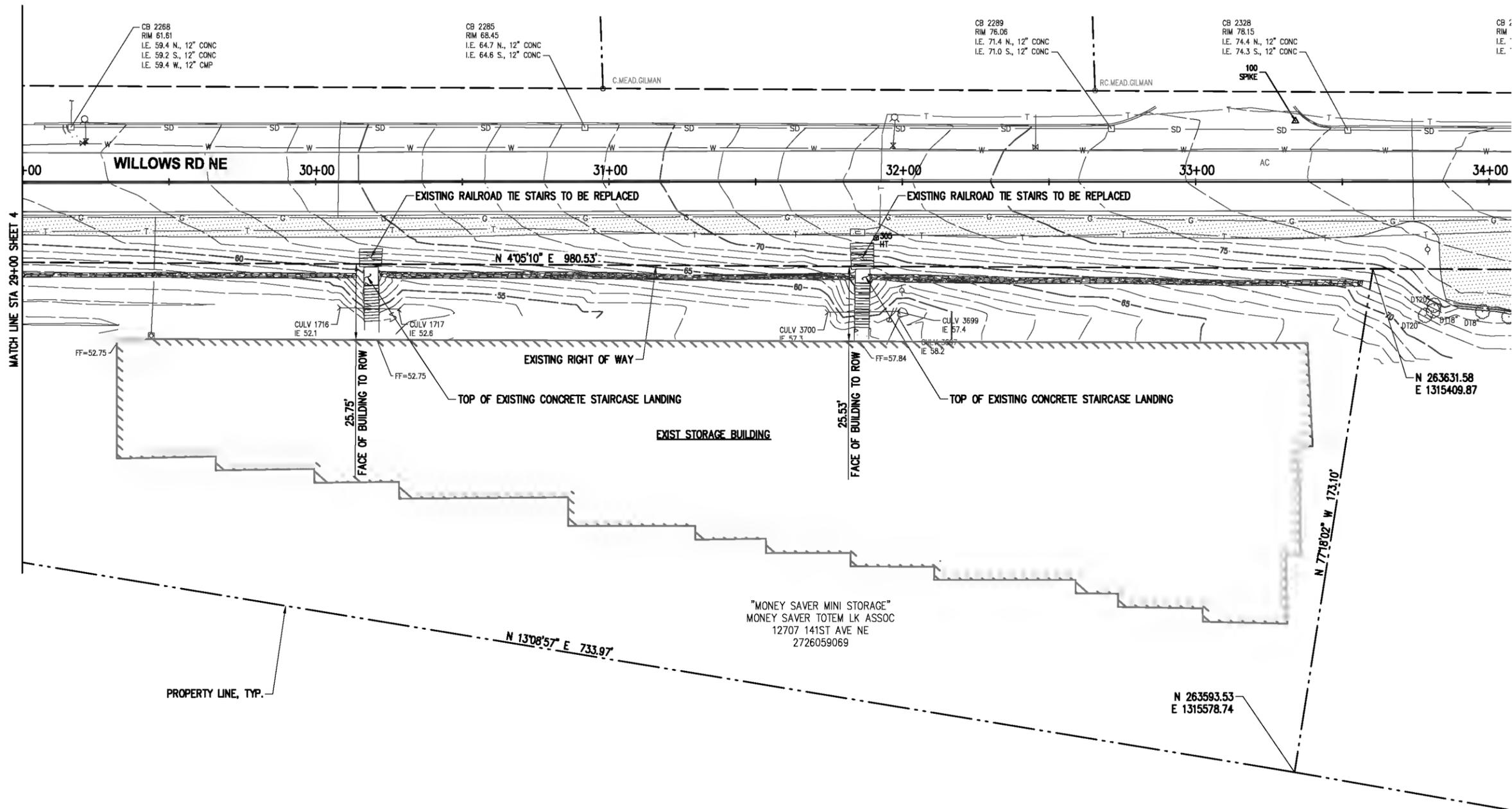
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CITY OF KIRKLAND
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EXISTING CONDITIONS PLAN
WILLOWS RD NE
STA 24+00 TO STA 29+00
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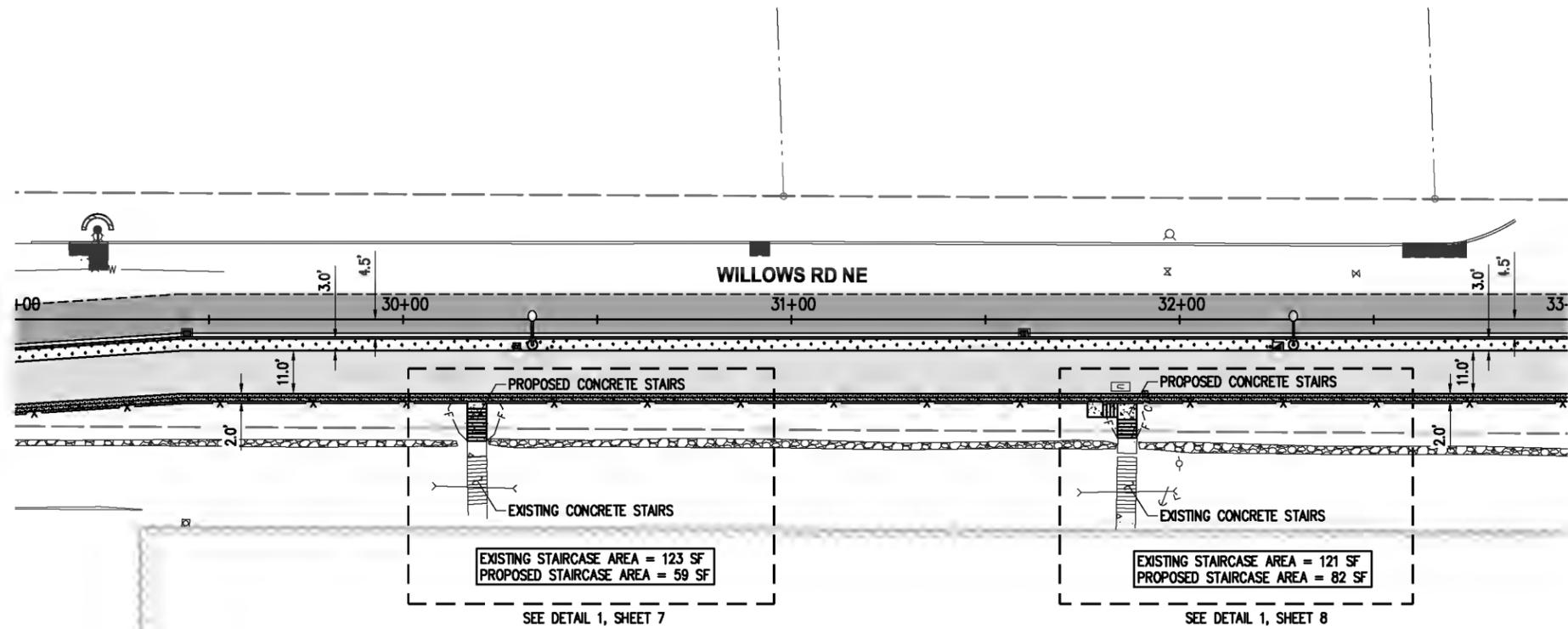
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CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

EXISTING CONDITIONS PLAN
WILLOWS RD NE
STA 29+00 TO STA 34+00
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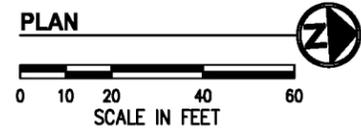
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LEGEND

NOTE: SEE CKC TO RCC REGIONAL CONNECTOR PROJECT, CIP NO. CNM-0081, VOLUME 1 FOR ADDITIONAL INFORMATION AND DETAILS

- SAWCUT
- ===== CURB & GUTTER
- X — CHAIN LINK FENCE
- F — APPROXIMATE FILL CATCH LINE
- PLANTER STRIP
- ASPHALT ROADWAY
- ASPHALT PATH
- ▨ SHOULDER/WALL CAP
- ▧ WALL
- STORM STRUCTURE
- ⊕ LUMINAIRE & JUNCTION BOX



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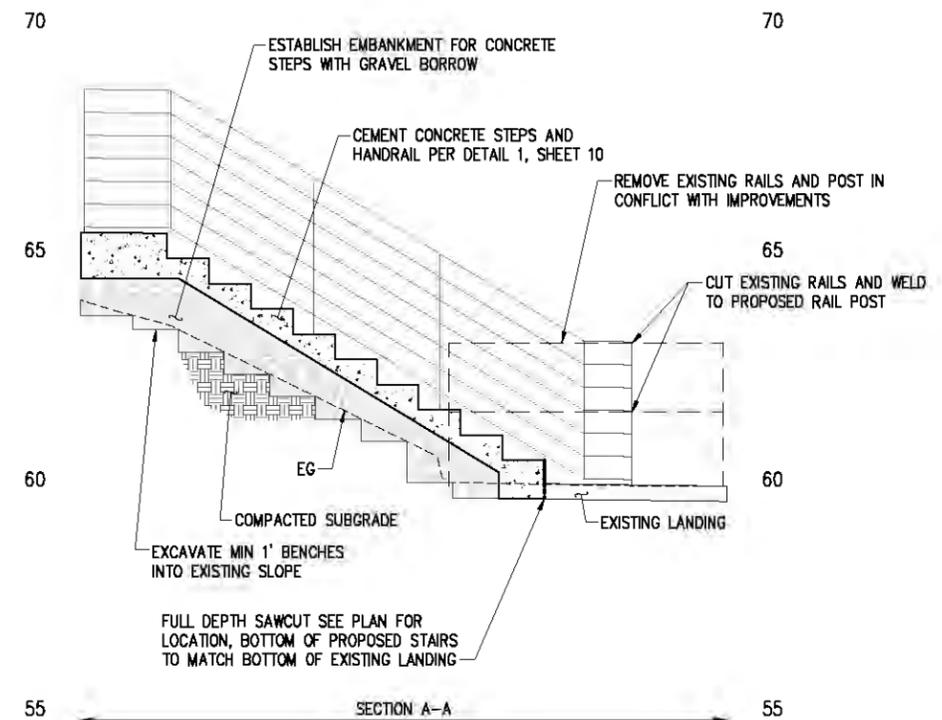
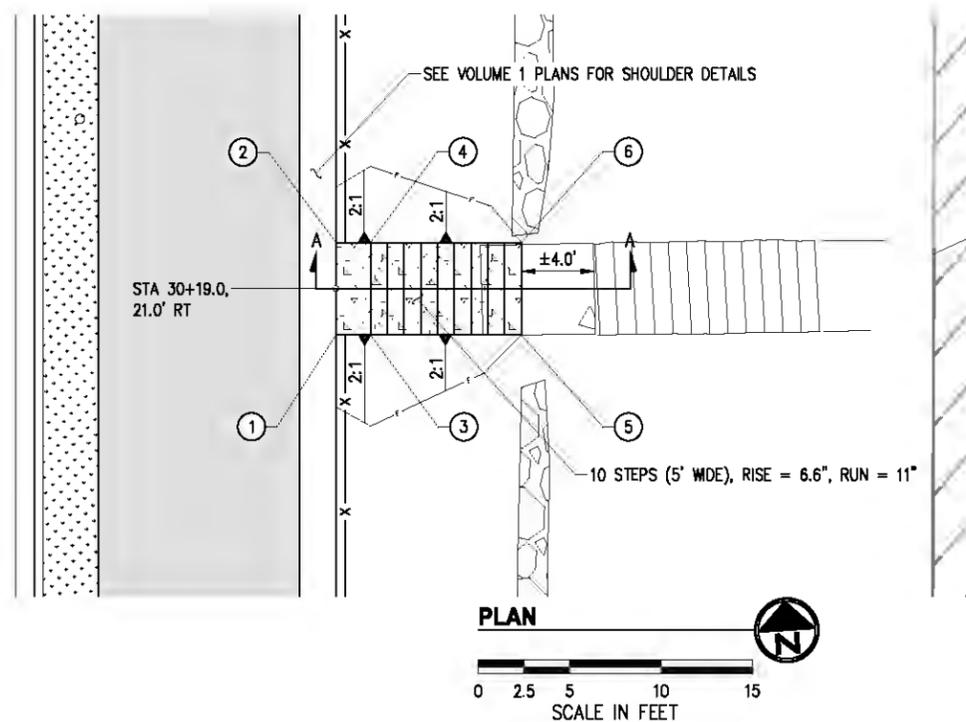


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ROADWAY PLAN WILLOWS RD NE STA 29+00 TO STA 33+00	
KPG PROJECT No. 17132	SHT <u>6</u> OF <u>11</u>

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POINT TABLE				
#	STATION	OFFSET	ELEV	DESCRIPTION
1	30+16.5	21.0' R	65.60	CONC SHOULDER
2	30+21.5	21.0' R	65.66	CONC SHOULDER
3	30+16.5	22.9' R	65.58	TOP STEP
4	30+21.5	22.9' R	65.64	TOP STEP
5	30+16.5	31.1' R	±60.12	EXIST LANDING
6	30+21.5	31.1' R	±60.18	EXIST LANDING



STAIR DETAIL 1
 STA 30+19
 NTS

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PROJECT ENGINEER	DATE	DATE
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		12/2019
		12/2019
		12/2019
		12/2019
		12/2019



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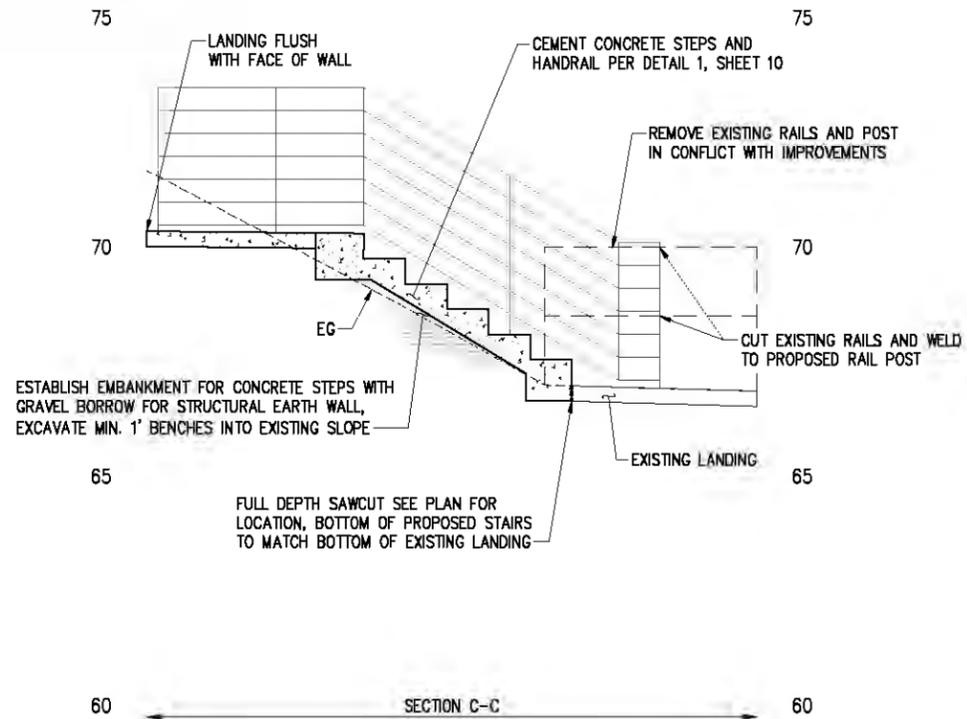
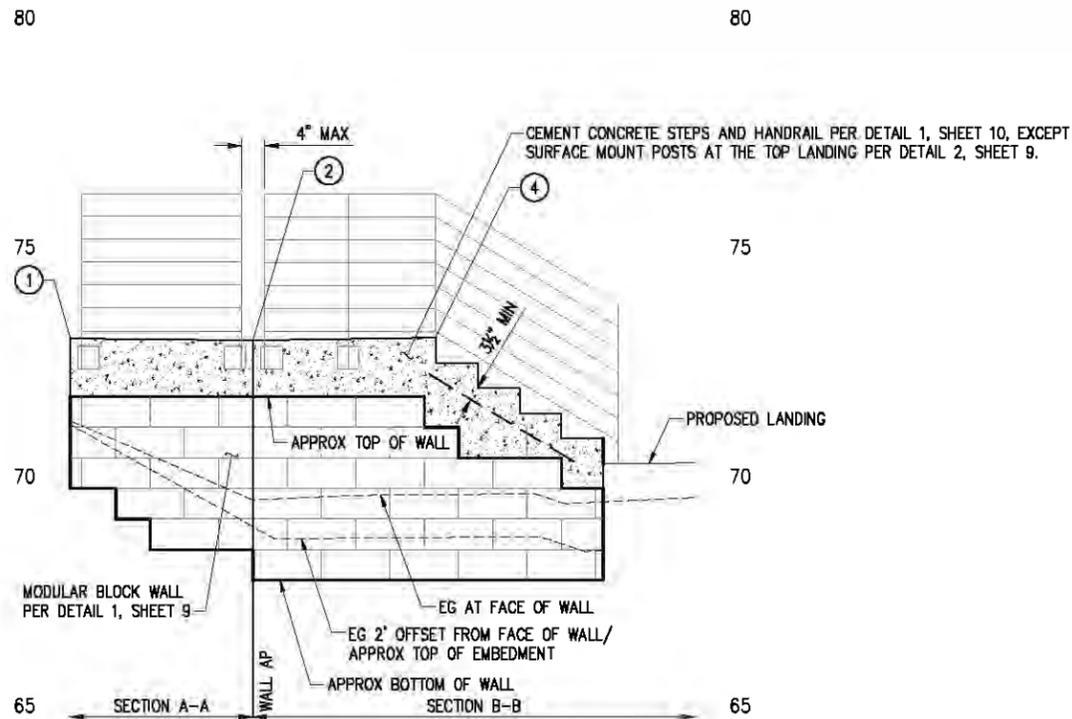
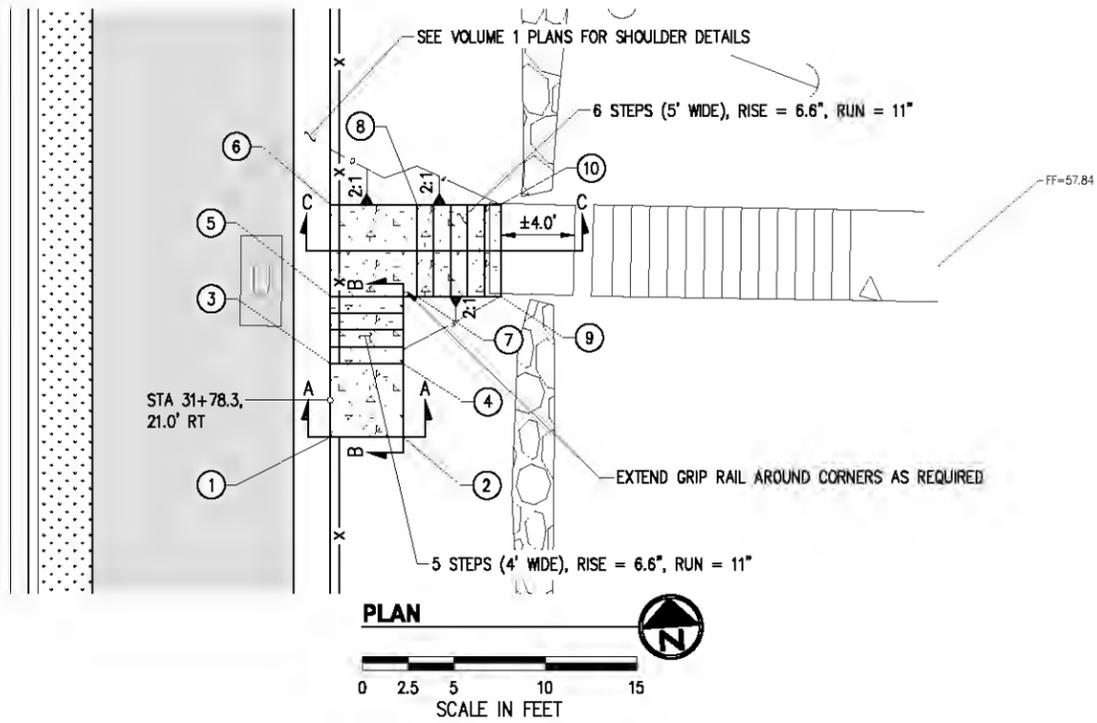
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TYPICAL DETAILS
 KPG PROJECT No. 17132 SHT 7 OF 11

POINT TABLE				
#	STATION	OFFSET	ELEV	DESCRIPTION
1	31+76.3	21.0' R	73.25	LANDING
2	31+76.3	25.0' R	73.21	LANDING
3	31+80.3	21.0' R	73.31	LANDING
4	31+80.3	25.0' R	73.27	LANDING
5	31+84.0	21.0' R	70.56	LANDING
6	31+89.0	21.0' R	70.62	LANDING
7	31+84.0	25.7' R	70.51	LANDING
8	31+89.0	25.7' R	70.57	LANDING
9	31+84.0	30.3' R	±67.19	EXIST LANDING
10	31+89.0	30.3' R	±67.25	EXIST LANDING



STAIR DETAIL 1
STA 31+79
NTS

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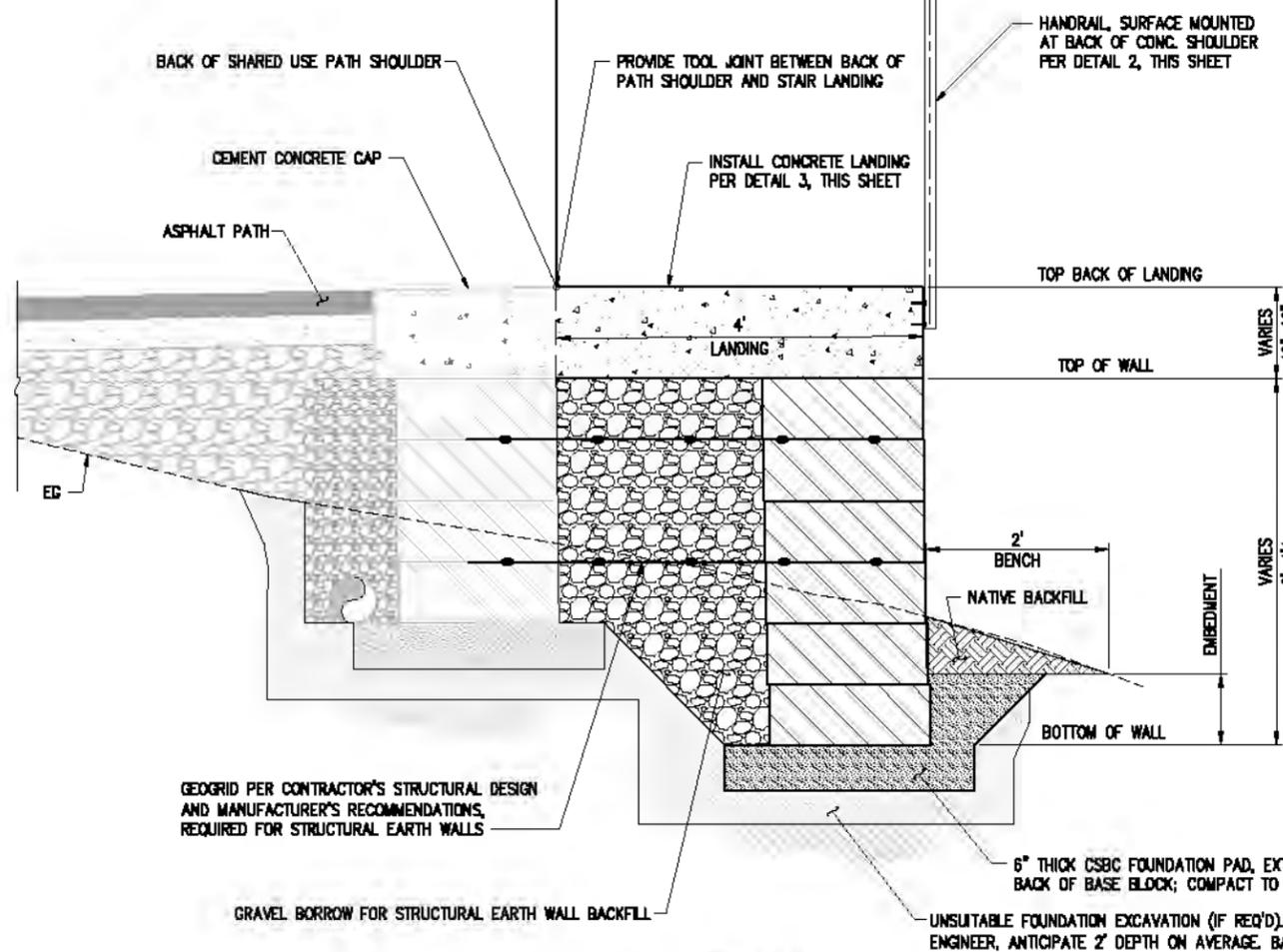
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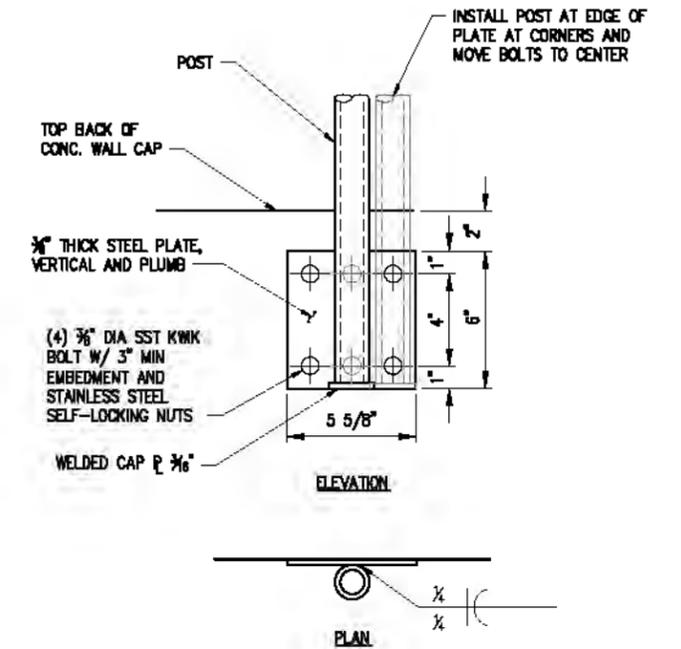
TYPICAL DETAILS
KPG PROJECT No. 17132 SHT 8 OF 11

SEE CKC TO RCC REGIONAL CONNECTOR PROJECT, CIP NO. CNM-0081, VOLUME 1 FOR ADDITIONAL INFORMATION



BLOCK WALL GENERAL NOTES

1. CONTRACTOR SHALL PROTECT EXISTING UTILITIES WHILE EXCAVATING FOR WALL. THIS MAY REQUIRE TEMPORARY SHORING DEPENDING ON THE CONSTRUCTION METHODS EMPLOYED BY THE CONTRACTOR.
2. EMBEDMENT SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
3. MAX PAY LIMIT FOR BLOCK WALLS SHALL BE TOP OF WALL TO 12" MAX EMBEDMENT.
4. BLOCK WALL SHALL BE STRAIGHT-FACED 21" KEYSTONE STANDARD BLOCKS, NEAR VERTICAL, OR APPROVED EQUAL BLOCKS SHALL BE A COLOR FROM MANUFACTURER'S STANDARD COLORS; COLOR AND FINISH SHALL BE AS APPROVED BY THE OWNER. UNIT CORE FILL PER MANUFACTURER'S REQUIREMENTS.



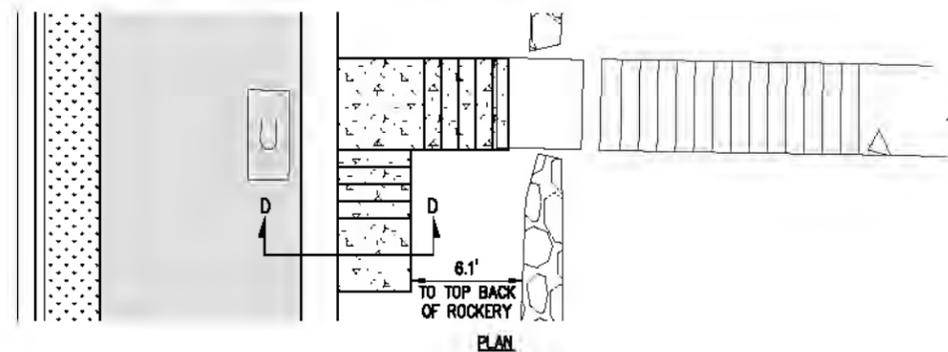
POST SURFACE MOUNT DETAIL 2
NTS

GEOGRID PER CONTRACTOR'S STRUCTURAL DESIGN AND MANUFACTURER'S RECOMMENDATIONS, REQUIRED FOR STRUCTURAL EARTH WALLS

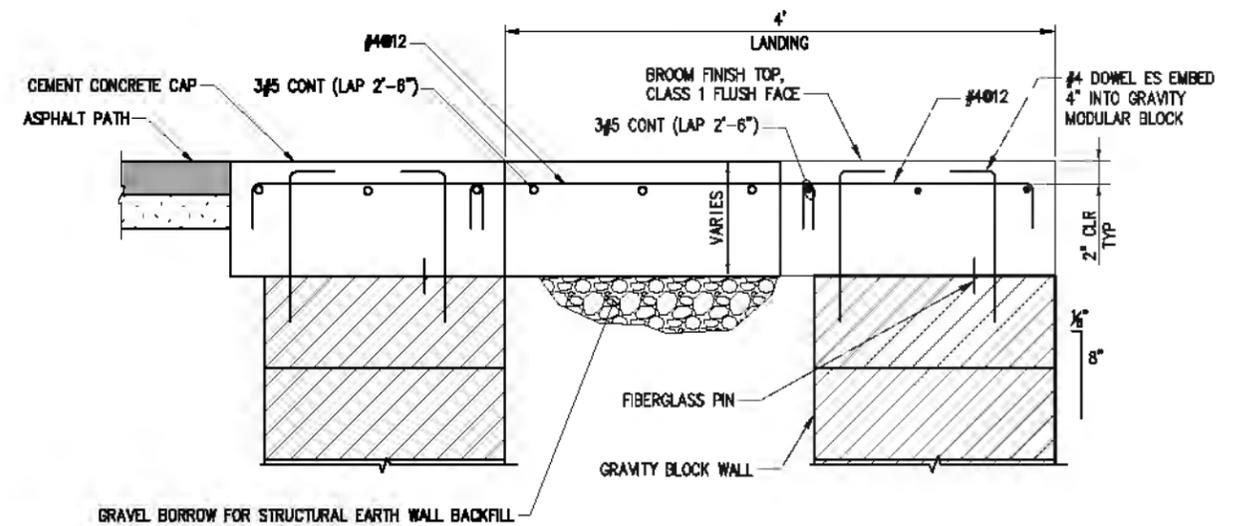
GRAVEL BORROW FOR STRUCTURAL EARTH WALL BACKFILL

6" THICK CSBC FOUNDATION PAD, EXTEND 6" BEYOND FACE AND BACK OF BASE BLOCK; COMPACT TO 95% MAX DRY DENSITY
UNSATURABLE FOUNDATION EXCAVATION (IF REQ'D). LIMITS AS DIRECTED BY THE ENGINEER, ANTICIPATE 2' DEPTH ON AVERAGE. BACKFILL WITH GRAVEL BORROW.

SECTION D-D



MODULAR BLOCK FILL WALL AT STAIRS DETAIL 1
NTS



LANDING OVER MODULAR BLOCK DETAIL 3
NTS

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PROJECT ENGINEER	DATE	12/20/19



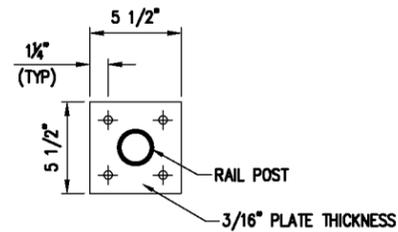
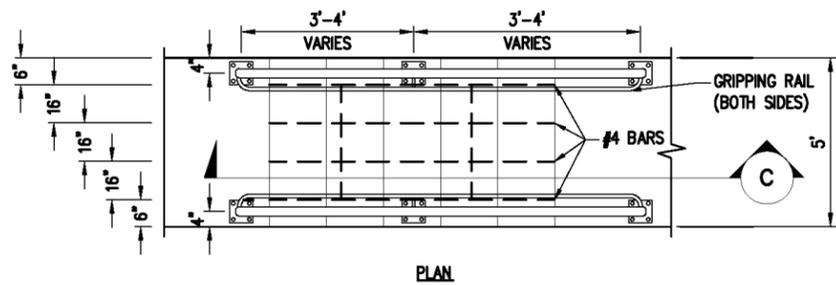
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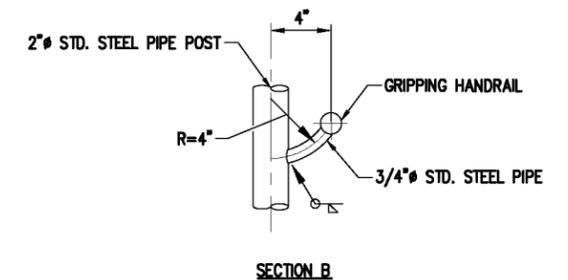
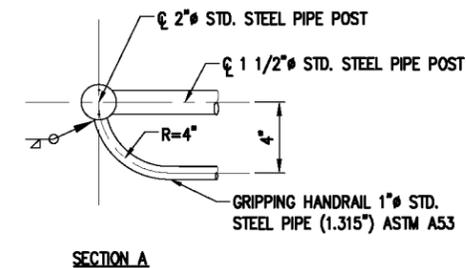
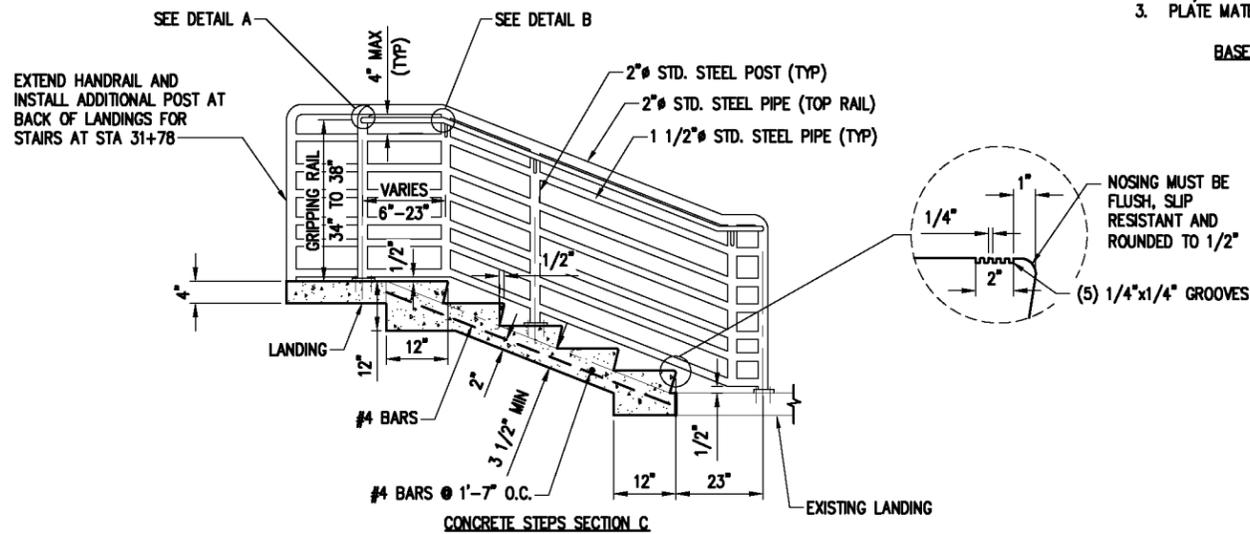
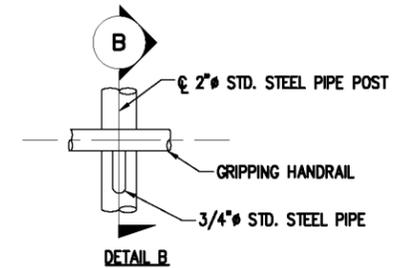
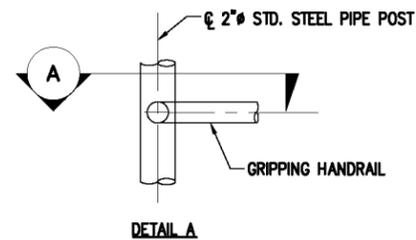


CITY OF KIRKLAND
CKC TO RCC REGIONAL CONNECTOR
WILLOWS RD NE

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- NOTES:
1. A307, 1/2 BOLTS MIN.
 2. 2 1/2 INCH CONCRETE EMBEDMENT MIN.
 3. PLATE MATERIAL MIN. A36



GRIPPING HANDRAIL

- NOTES:
1. CONCRETE: CEMENT CONCRETE CLASS 4000.
 2. ALL STEPS: SAME DIMENSIONS, WITHIN 3/8 IN. MAX. DIFFERENCE.
 3. RISERS: 7 1/2 IN. MAX., 5 IN. MIN., ALL EQUAL HEIGHT.
 4. TREADS: 12 IN. MAX., 11 IN. MIN., WITH TRANSVERSE 1/4" PER FOOT SLOPE.
 5. METAL HANDRAIL REQUIRED FOR 4 STEPS OR MORE.
 6. REINFORCING BARS SHALL CONFORM TO EITHER AASHTO M31 GRADE 60 OR ASTM A706 GRADE 60 AND ARE REQUIRED FOR 4 STEPS OR MORE.
 7. SEE SEC. 3.06.

CONCRETE STEPS AND METAL HANDRAIL DETAIL 1

NO.	DATE	BY	APPR.	REVISIONS

Approved By		17132DET01_SPS.dwg
ENGINEERING MANAGER	DATE	FILENAME
PROJECT MANAGER	DATE	DESIGNED BY
PROJECT ENGINEER	DATE	DATE
		12/2019
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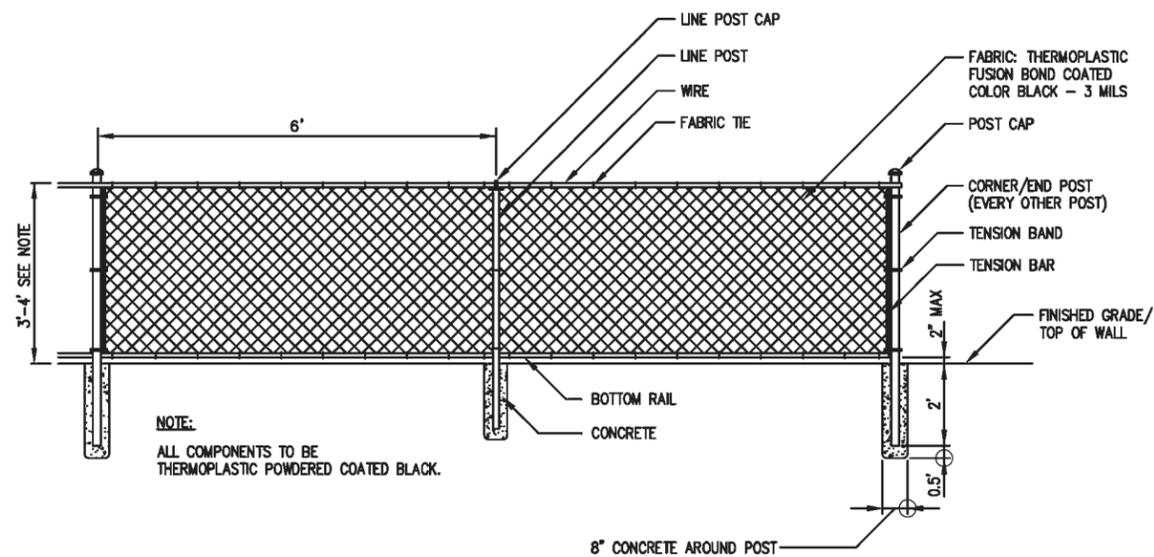
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TYPICAL DETAILS

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LAST REVISED: 1/18/13



NOTE:
ALL COMPONENTS TO BE THERMOPLASTIC POWDERED COATED BLACK.

PIPE SCHEDULE
(ALL DIMENSIONS I.D.)

BOTTOM RAIL	CORNER/END POST	LINE POST
1.25"	2.5"	2"

NOTES

- ALL FENCING MATERIALS SHALL COMPLY WITH THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-16 CLASS 1 MATERIAL. INSTALLATIONS PER MANUFACTURER'S RECOMMENDATIONS.
- SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIALS BEING USED SHALL BE SPECIFIED IN THE SHOP DRAWINGS.
- ALL STEEL PARTS SHALL BE GIVEN A BLACK ULTRAVIOLET-INSENSITIVE THERMOPLASTIC POWDER COATING AT LEAST 3 MILS THICK AND SHALL HAVE A UNIFORM FINISH.
- CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
- ALL MATERIALS SHALL BE ADEQUATELY WRAPPED TO ENSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.
- ANY WELDING OF STEEL SHALL BE IN ACCORDANCE WITH THE LATEST AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
- PANEL HEIGHT: 3 FEET FOR PEDESTRIAN USES
4 FEET FOR COMBINED BICYCLE AND PEDESTRIAN USES

CITY OF KIRKLAND	
PLAN NO. CK-R.51A	
	CHAIN LINK SIDEWALK SAFETY RAIL

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT MANAGER	DATE	DRAWN BY	DATE
PROJECT ENGINEER	DATE	CHECKED BY	DATE



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C.O.K. STANDARD PLAN

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