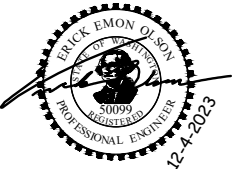


LAKE ST & KIRKLAND AVE PEDESTRIAN IMPROVEMENTS

JOB NO. 62-22-PW
CIP NO. TRC1370000
FEDERAL AID NO. HSIP-000S(534)

DECEMBER 2023



KIRKLAND

LAKE WASHINGTON

JUANITA BAY

MOSS BAY

KIRKLAND

REDMOND

PROJECT LOCATION


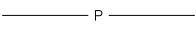

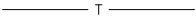

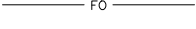

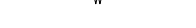







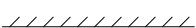









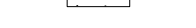


















BRIDLE TRAILS STATE PARK

NO SCALE

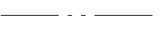

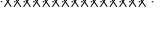
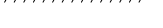










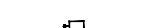




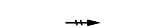
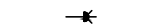















SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LEGEND & ABBREVIATIONS
3	ALIGNMENT & SURVEY CONTROL PLAN
4 - 5	TYPICAL SECTIONS
6 - 7	DETAILS
8	SITE PREPARATION & TESC PLAN
9	STORMWATER PLAN & PROFILES
10	WATER & SEWER PLAN
11	ROADWAY PLAN
12	INTERSECTION LAYOUT PLAN
13	PARKING LAYOUT PLAN
14	CONCRETE JOINTING PLAN
15 - 18	URBAN DESIGN PLAN & DETAILS
19 - 21	LANDSCAPE PLAN, SCHEDULE & DETAILS
22 - 24	IRRIGATION PLAN, SCHEDULE & DETAILS
25	CHANNELIZATION & SIGNING PLAN
26 - 30	SIGNAL & ILLUMINATION PLANS & DETAILS
31	EXISTING CONDITIONS & POTHOLE PLAN
32 - 37	TRAFFIC CONTROL & DETOUR PLANS

December 4, 2023 - 5:37 PM - DAREK GOCH - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\DRAWINGS\CONTRACT\20045\LEG\ABBRV.DWG - Layout Name: LEG-ABBRV

EXISTING LEGEND

	MONUMENT IN CASE		PAINTED POWER
	PK NAIL		PAINTED TELEPHONE
	CATCH BASIN		PAINTED FIBER OPTIC
	STORM DRAIN MANHOLE		PAINTED WATER
	SEWER MANHOLE		PAINTED GAS
	SEWER CLEAN-OUT		STORM
	POWER POLE WITH LUMINAIRE		SEWER
	TRAFFIC SIGNAL		FENCE
	TRAFFIC SIGNAL WITH LUMINAIRE		BUILDING
	PEDESTRIAN SIGNAL		PAINTED STRIPE
	JUNCTION BOX		EDGE OF PAVEMENT
	TRAFFIC CONTROL CABINET		FLOWLINE
	TRAFFIC ATTENUATOR LOOP		CONTOUR
	STREET LIGHT (LUMINAIRE)		CONCRETE
	LOT LIGHT		
	TELEPHONE MANHOLE		
	TELEPHONE VAULT LID		
	GAS VALVE		
	WATER VALVE		
	WATER METER		
	FIRE HYDRANT		
	IRRIGATION CONTROL VALVE		
	UTILITY VAULT LID (GENERIC/UNKNOWN)		
	STAND-PIPE (GENERIC/UNKNOWN)		
	MONITORING WELL		
	GUARD POST		
	SIGN		
	MAILBOX (# OF BOXES)		
	SHRUB		
	DECIDUOUS TREE, DIAMETER (# OF TRUNKS)		

PROPOSED LEGEND

	PROPERTY LINE
	RIGHT OF WAY LINE
	REMOVE CURB
	REMOVE EXISTING PIPE
	FULL DEPTH SAWCUT
	EXPANSION JOINT
	JOINT TYPE TBD
	CURB AND GUTTER
	STORM DRAIN PIPE
	WATER LINE
	ILLUMINATION CONDUIT
	TRAFFIC SIGNAL CONDUIT
	YARD DRAIN
	CATCH BASIN TYPE 1
	DIRECTIONAL FLOW ARROW
	WATER METER/METER BOX
	FIRE HYDRANT
	AIR VAC ASSEMBLY
	JUNCTION BOX TYPE 1, 2 & 8
	ELECTRICAL SERVICE CABINET
	TRAFFIC SIGNAL CONTROLLER CABINET
	VEHICLE SIGNAL HEAD
	SPARE TENON
	PEDESTRIAN SIGNAL HEAD
	EMERGENCY PRE-EMPTION DETECTOR
	VEHICLE DETECTION CAMERA
	PTZ CAMERA
	TRAFFIC SIGNAL MOUNTED SIGN
	WIRELESS ACCESS POINT
	DECORATIVE PEDESTRIAN ILLUMINATION AND POLE
	DECORATIVE ROADWAY ILLUMINATION AND POLE
	DECORATIVE SIGNAL POLE WITH MAST ARM AND DECORATIVE LUMINAIRE
	INLET PROTECTION
	TREE CRITICAL ROOT ZONE
	SIGN
	WHEEL STOP



TRUNCATED DOME ON CEMENT CONC SLAB



REMOVE ASPHALT CONCRETE PAVEMENT



REMOVE CEMENT CONCRETE



DO NOT INCLUDE REMOVAL AREA IF PROPERTY OWNER AGREEMENTS GET REVOKED



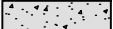
BRICK PAVERS



CEMENT CONC SIDEWALK



HMA CL 1/2" PG 58H-22



CEMENT CONC ROADWAY RAMP



RAISED CONC INTERSECTION

ABBREVIATIONS

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

DATE	NO.	REVISION	BY		



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: EEO	DRAWN BY: DG
4/2023	4/2023



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

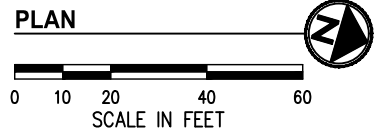
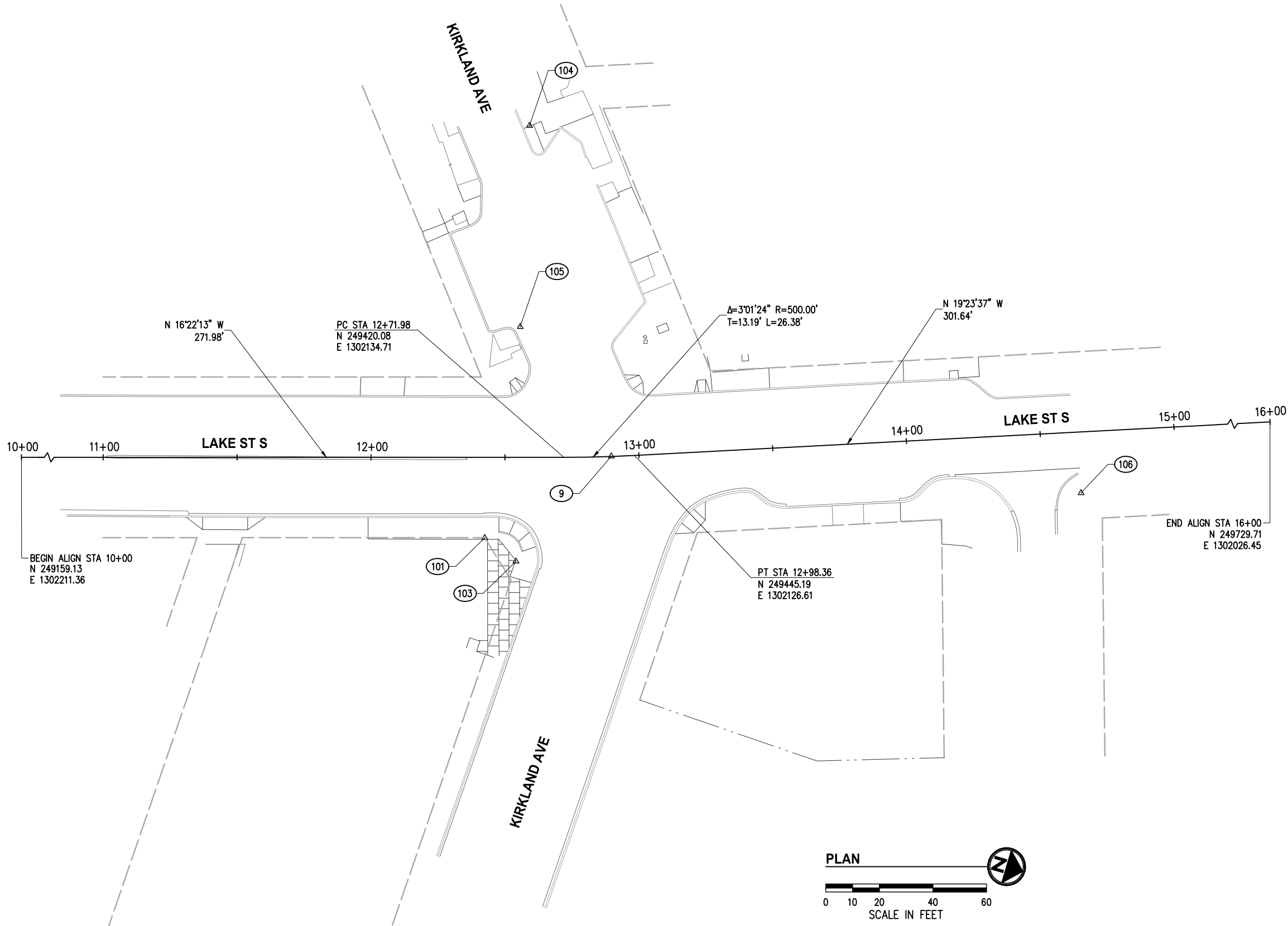
LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

LEGEND & ABBREVIATIONS

REFERENCE
SHEET NO.

SHEET
2
OF
37
SHEETS

December 4, 2023 - 5:37 PM - DAREK - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROV\DESIGN\DRAWINGS\CONTRACT\20045\SURV\CNTRL.DWG - Layout Name: SURV CNTRL



HORIZONTAL AND VERTICAL DATUM

HORIZONTAL DATUM: NAD 83/11, NORTH ZONE
VERTICAL DATUM: NAVD 88
HORIZONTAL AND VERTICAL DATUMS ESTABLISHED BY RTK GPS
OBSERVATION UTILIZING WSRN (WASHINGTON STATE REFERENCE NETWORK)
WITH CHECKS TO CONTROL POINTS BEL 0328 AND BEL 0441

#	CONTROL POINT LIST			
PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
9	PK	249436.96	1302129.33	33.94'
100*	PK	249431.13	1302465.37	37.61'
101	PK/FND	249400.22	1302171.86	33.88'
103	PK/FND	249413.87	1302177.02	33.67'
104	PK/SET	249372.86	1302019.47	30.62'
105	PK/FND	249390.69	1302092.50	32.55'
106	PK/FND	249609.08	1302093.04	33.71'

* POINT NOT SHOWN ON PLAN

DATE	NO.	REVISION	BY		



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: EEO	DRAWN BY: DG
4/2023	4/2023



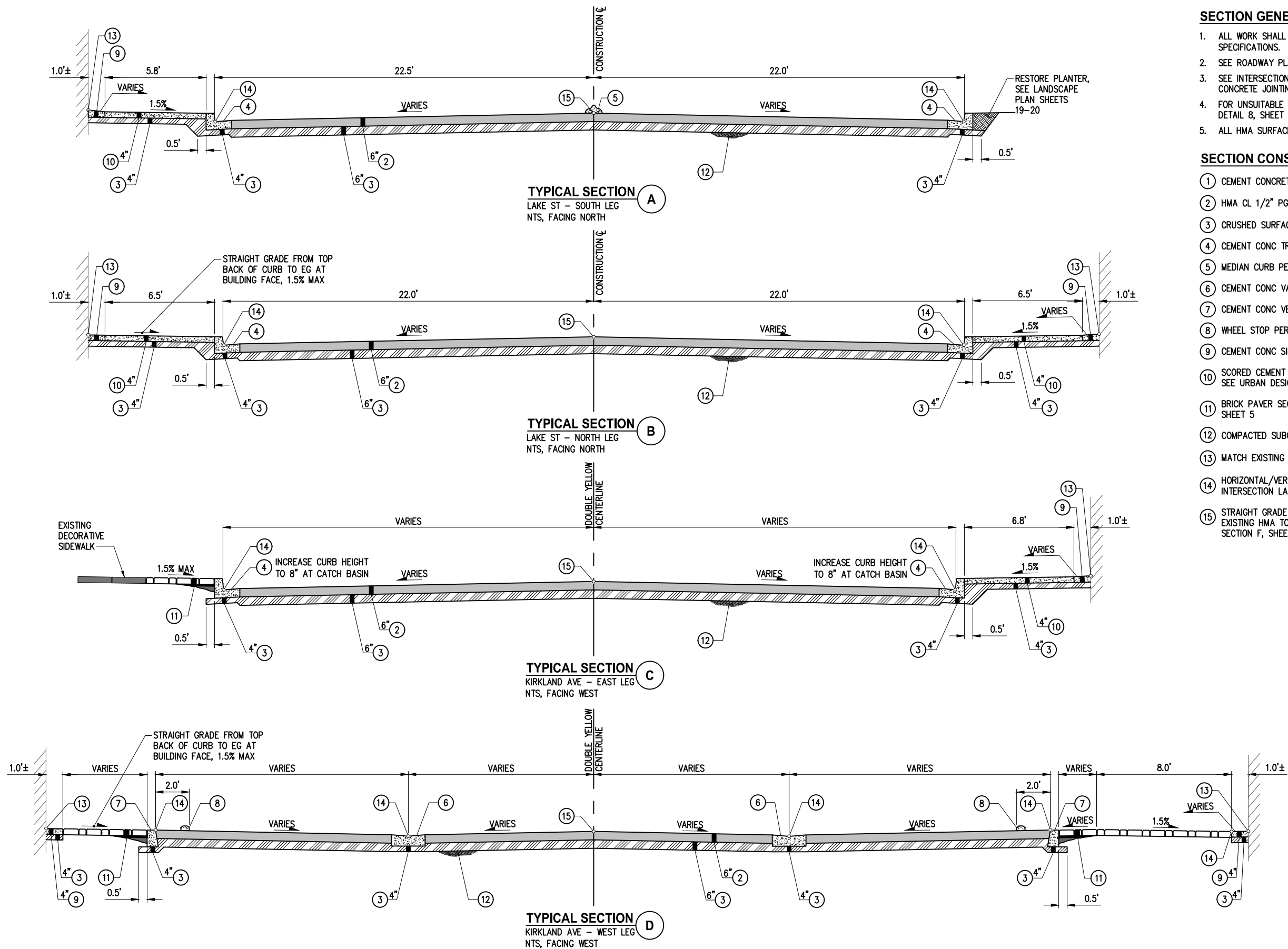
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LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS
ALIGNMENT & SURVEY CONTROL PLAN

REFERENCE
SHEET NO.
SHEET
3
OF
37
SHEETS

December 4, 2023 - 5:37 PM - ERICK.OLSON - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\DRAWINGS\CONTRACT\20045\SEC01.DWG - Layout Name: TYP SEC 01



SECTION GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS.
2. SEE ROADWAY PLAN SHEET 11 FOR SECTION LOCATION.
3. SEE INTERSECTION LAYOUT SHEET 12, PARKING LAYOUT SHEET 13, AND CONCRETE JOINTING PLAN SHEET 14 FOR GRADING.
4. FOR UNSUITABLE FOUNDATION EXCAVATION AND REPAIR, IF ENCOUNTERED, SEE DETAIL 8, SHEET 7.
5. ALL HMA SURFACE JOINTS SHALL BE SEALED.

SECTION CONSTRUCTION NOTES

- 1 CEMENT CONCRETE PAVEMENT
- 2 HMA CL 1/2" PG 58H-22, 4" MAX LIFT
- 3 CRUSHED SURFACING TOP COURSE
- 4 CEMENT CONC TRAFFIC CURB & GUTTER PER C.O.K. STD PLAN CK-R.17
- 5 MEDIAN CURB PER C.O.K. STD PLAN CK-R.19A
- 6 CEMENT CONC VALLEY GUTTER PER C.O.K. STD PLAN CK-R.17B
- 7 CEMENT CONC VERTICAL CURB PER C.O.K. STD PLAN CK-R.17C
- 8 WHEEL STOP PER DETAIL 4 SHEET 7.
- 9 CEMENT CONC SIDEWALK AT TRANSITION PER DETAIL 3, SHEET 6
- 10 SCORED CEMENT CONCRETE SIDEWALK PER C.O.K. STD PLAN CK-R.23. SEE URBAN DESIGN SHEETS 15-18 FOR SCORING PATTERN
- 11 BRICK PAVER SECTION, BASE TREATMENT VARIES SEE SECTIONS H & G, SHEET 5
- 12 COMPACTED SUBGRADE
- 13 MATCH EXISTING GRADE AT BUILDING FACE/SAWCUT
- 14 HORIZONTAL/VERTICAL CONTROL POINT, SEE ROADWAY SHEET 11, INTERSECTION LAYOUT SHEET 12, AND PARKING LAYOUT SHEET 13
- 15 STRAIGHT GRADE ALONG DOUBLE YELLOW CENTERLINE ALIGNMENT FROM EXISTING HMA TO BOTTOM OF CEMENT CONC ROADWAY RAMP PER SECTION F, SHEET 5

DATE	NO.	REVISION	BY		



UPI NO.:	
SURVEY NO.:	
HORZ. DATUM:	WSPCS, N ZONE, NAD 83/11
DESIGNED BY:	EEO 4/2023

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FIELD BOOK(S):	
VERT. DATUM:	NAVD 88
DRAWN BY:	DG 4/2023



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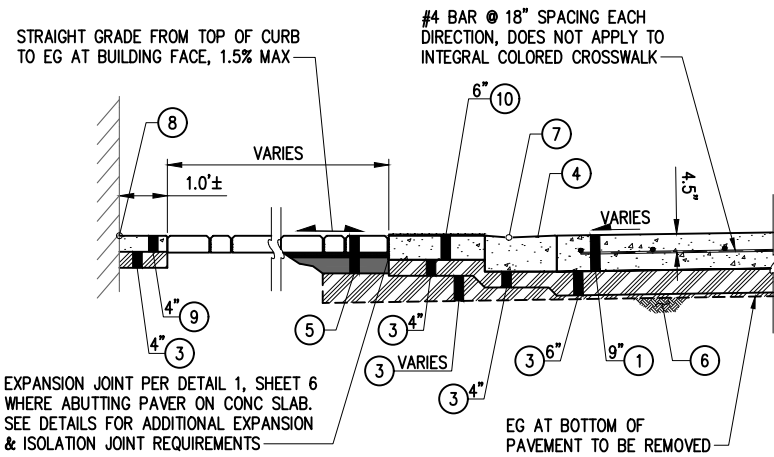


LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

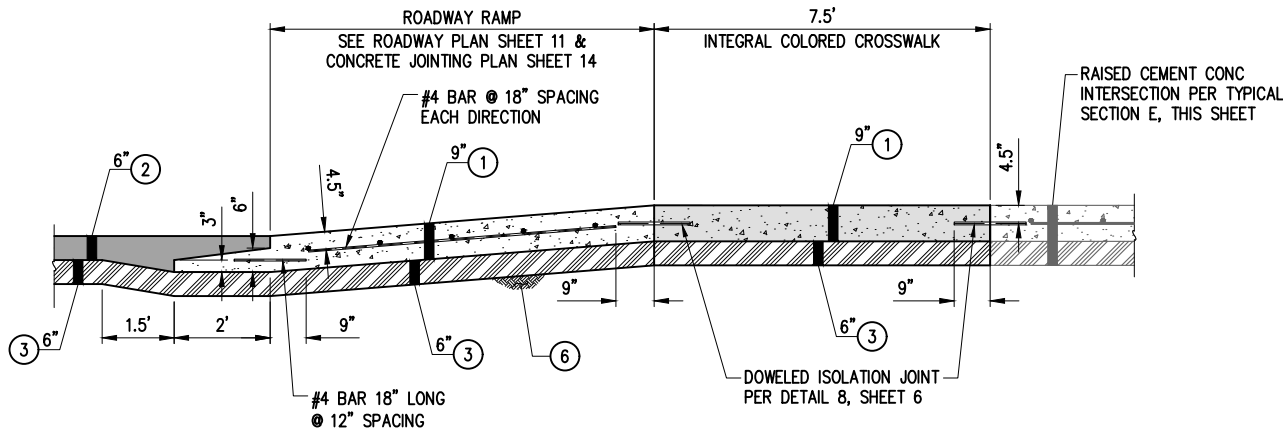
TYPICAL SECTIONS

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SHEET 4 OF 37 SHEETS	

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TYPICAL SECTION E
RAISED INTERSECTION
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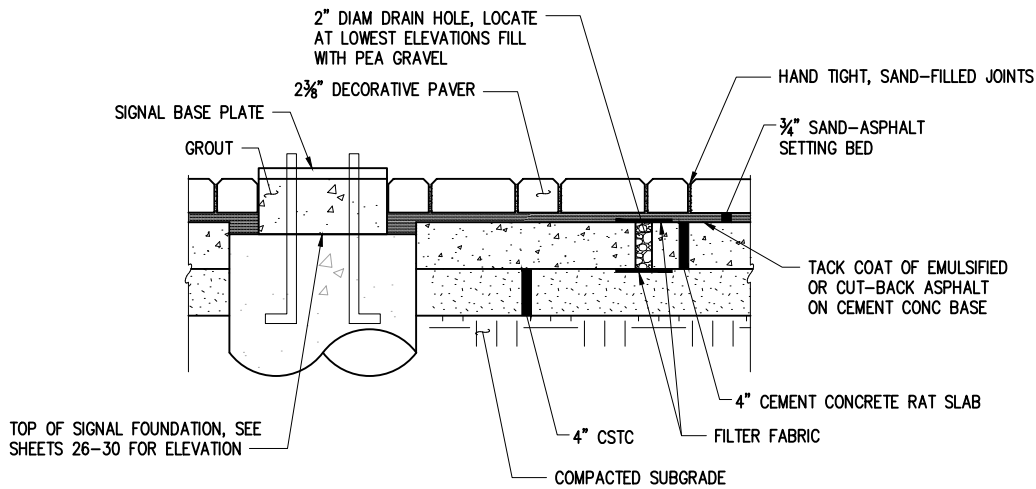
ROADWAY RAMP & CROSSWALK SECTION F
NTS

SECTION GENERAL NOTES

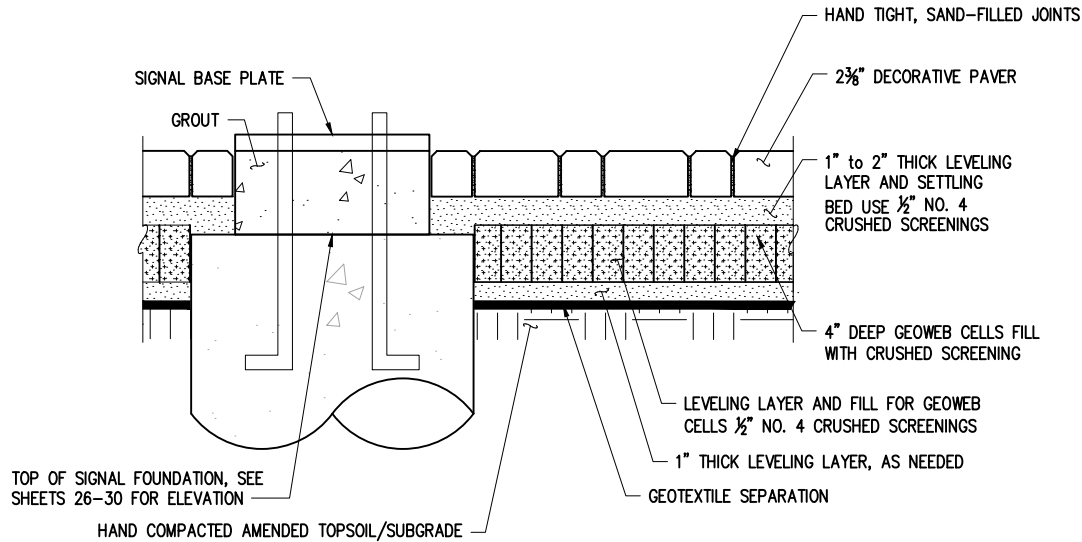
1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS.
2. SEE ROADWAY PLAN SHEET 11 FOR SECTION LOCATION.
3. SEE INTERSECTION LAYOUT SHEET 12, PARKING LAYOUT SHEET 13, AND CONCRETE JOINTING PLAN SHEET 14 FOR GRADING.
4. FOR UNSUITABLE FOUNDATION EXCAVATION AND REPAIR, IF ENCOUNTERED, SEE DETAIL 8, SHEET 7.
5. ALL HMA SURFACE JOINTS SHALL BE SEALED.

SECTION CONSTRUCTION NOTES

- 1 CEMENT CONCRETE PAVEMENT
- 2 HMA CL 1/2" PG 58H-22, 4" MAX LIFT
- 3 CRUSHED SURFACING TOP COURSE
- 4 CEMENT CONC VALLEY CURB PER DETAIL 2, SHEET 6
- 5 BRICK PAVER SECTION, BASE TREATMENT VARIES SEE SECTIONS H & G, SHEET 5
- 6 COMPACTED SUBGRADE
- 7 HORIZONTAL/VERTICAL CONTROL POINT, SEE ROADWAY SHEET 11, INTERSECTION LAYOUT SHEET 12, AND PARKING LAYOUT SHEET 13
- 8 MATCH EXISTING GRADE AT BUILDING FACE/SAWCUT
- 9 CEMENT CONC SIDEWALK AT TRANSITION PER DETAIL 3, SHEET 6
- 10 RADIAL COATED CAST IRON DETECTABLE WARNING SURFACE ON CEMENT CONCRETE SLAB



DECORATIVE PAVER ON CEMENT CONCRETE SLAB SECTION G
NTS



DECORATIVE PAVER WITH POLYETHYLENE WEB SYSTEM SECTION H
NTS

DATE	NO.	REVISION	BY



UPI NO.:	
SURVEY NO.:	
HORZ. DATUM:	
WSPCS, N ZONE, NAD 83/11	
DESIGNED BY:	EEO
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NAVD 88	
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4/2023	



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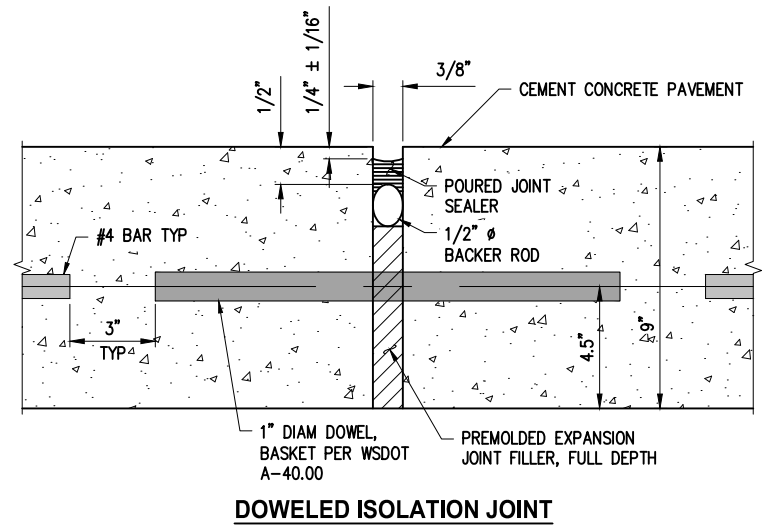
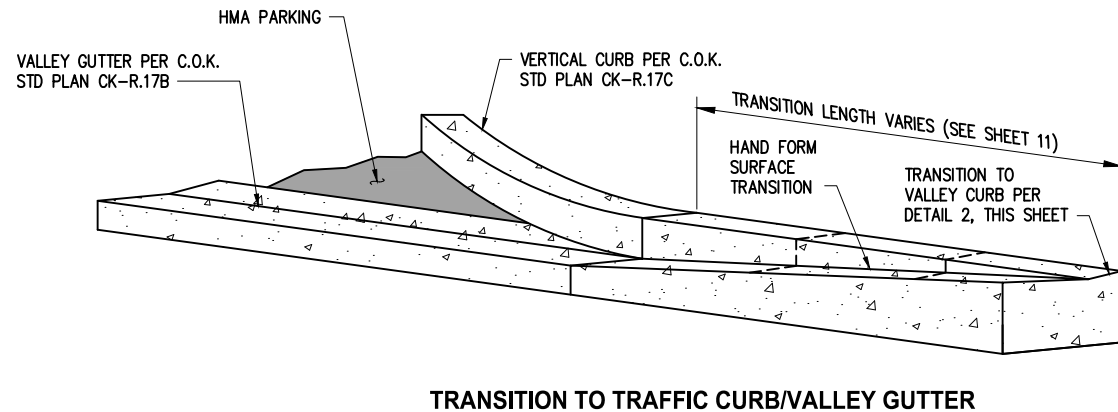
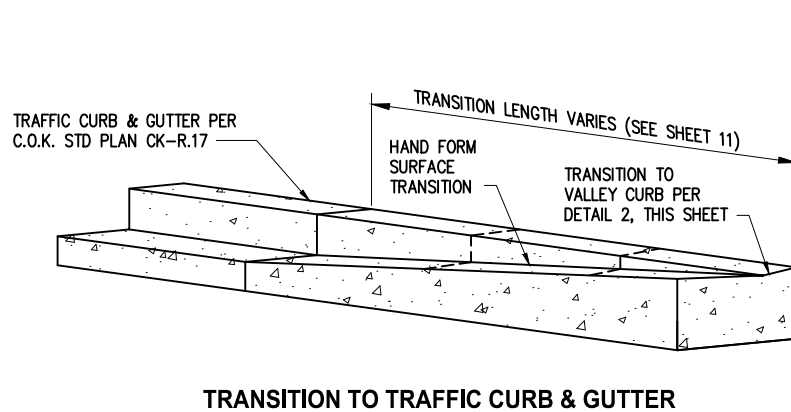
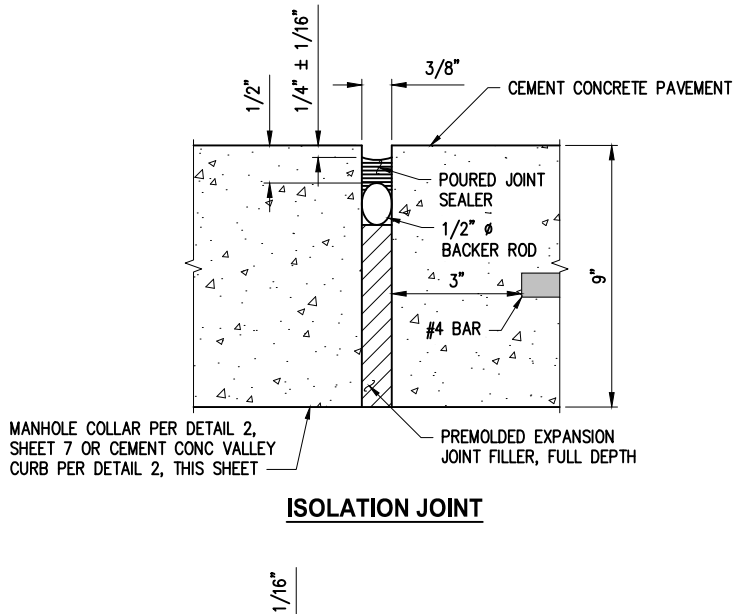
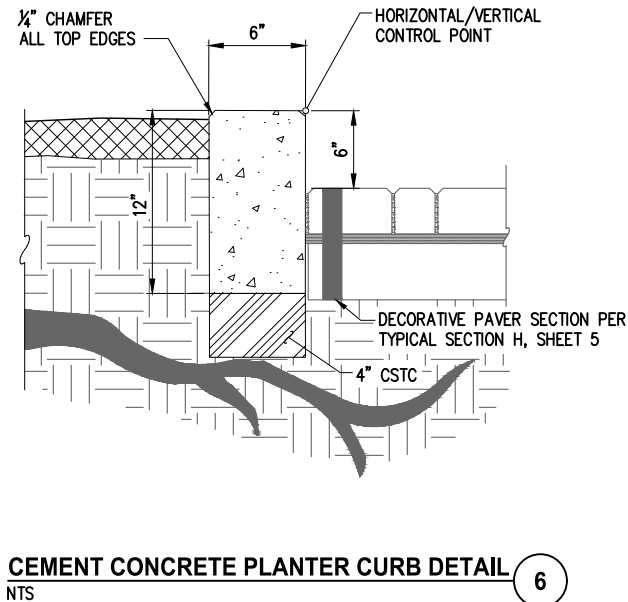
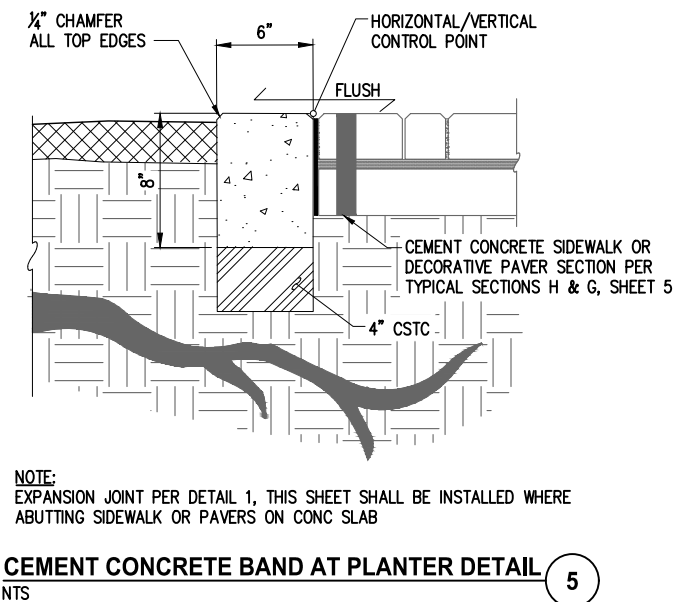
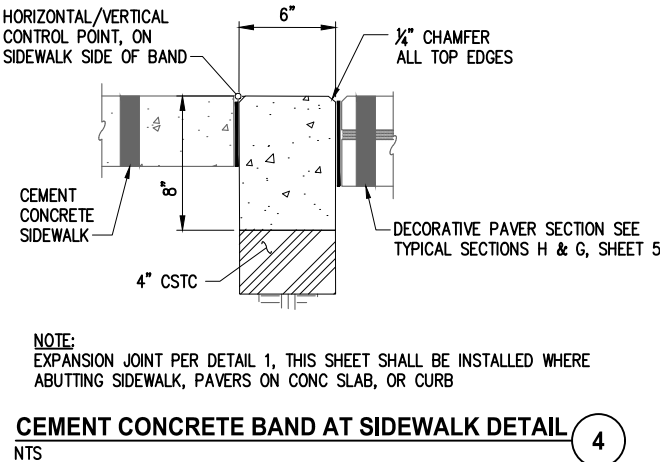
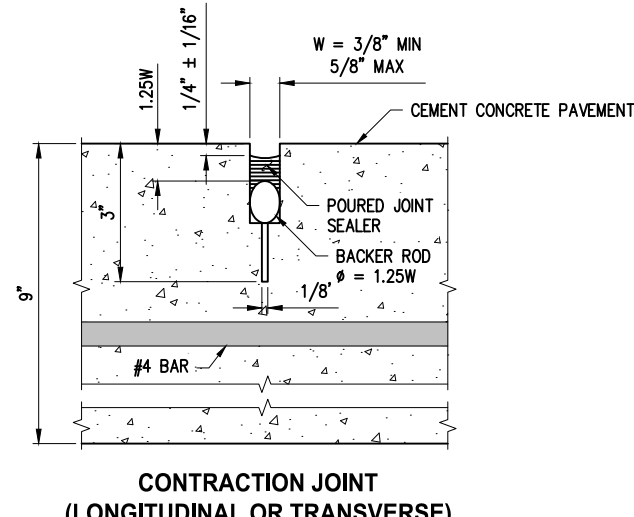
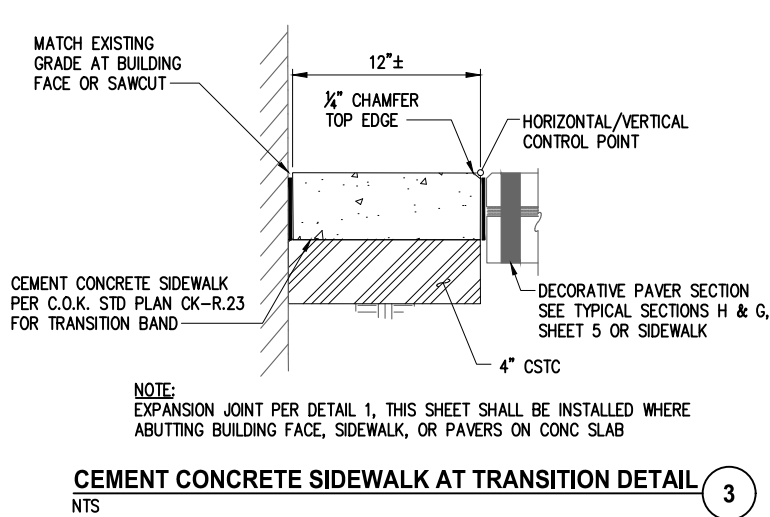
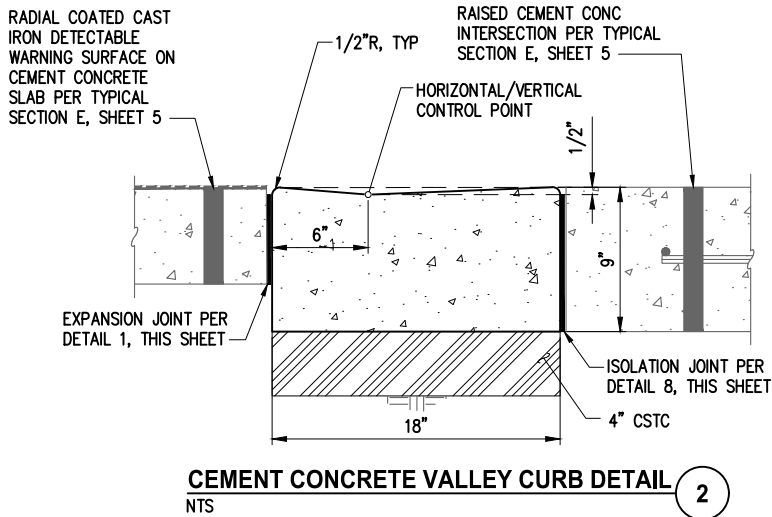
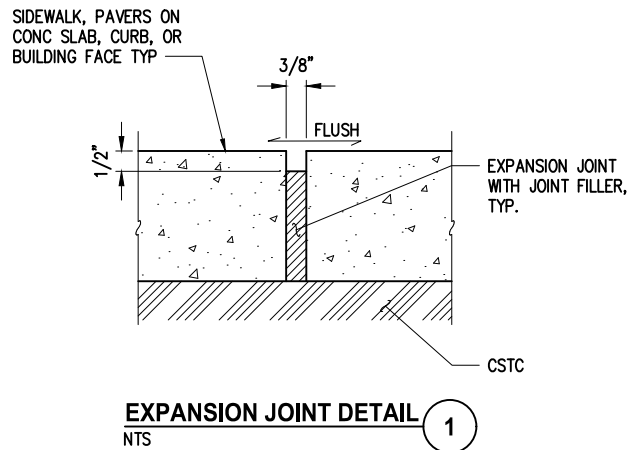


**LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS**

TYPICAL SECTIONS

REFERENCE SHEET NO.	
SHEET	5
OF	37
SHEETS	

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SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: EEO	4/2023
DRAWN BY: DG	4/2023



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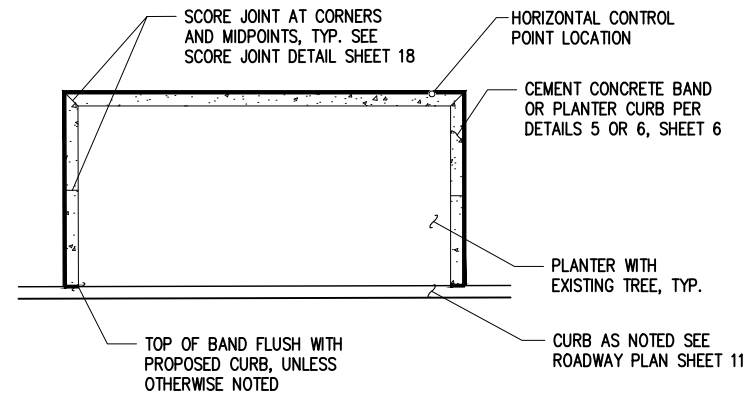


LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

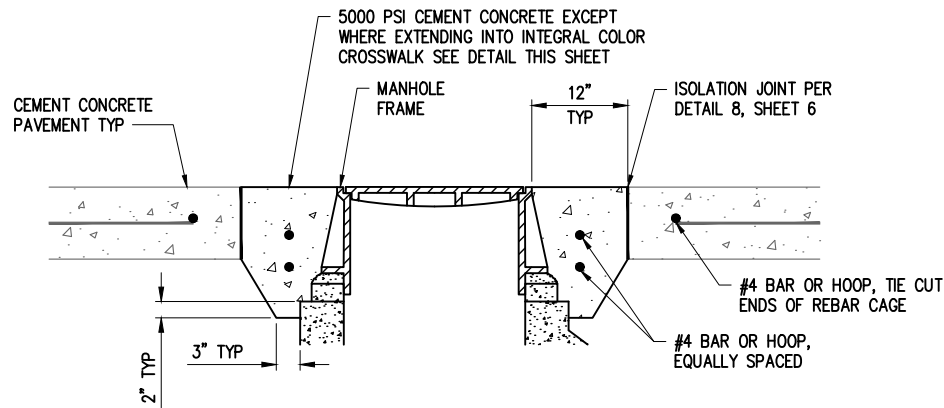
DETAILS

REFERENCE SHEET NO.
SHEET 6 OF 37 SHEETS

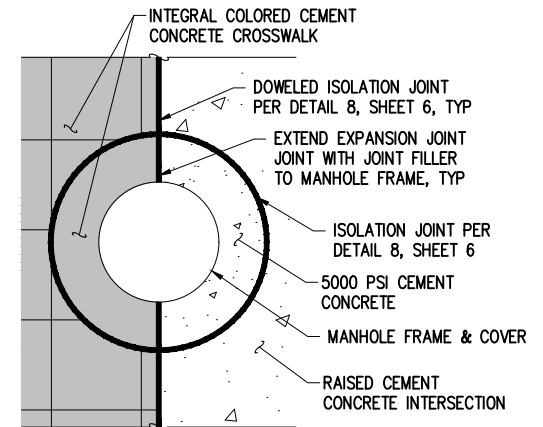
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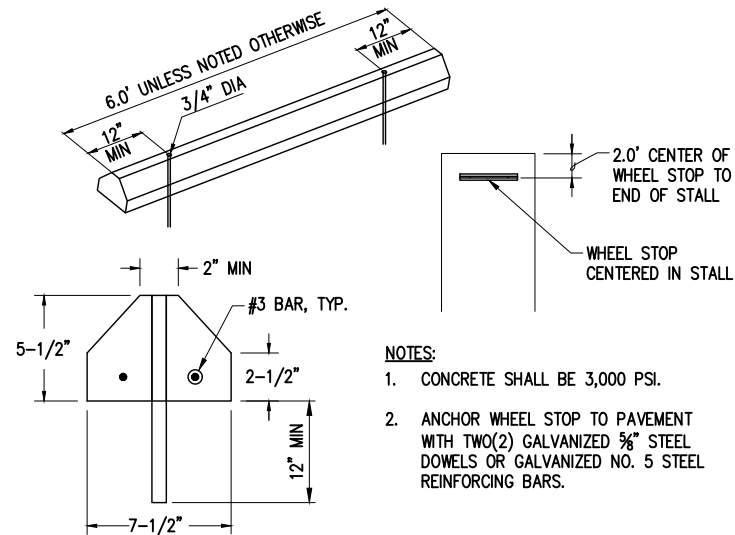
CEMENT CONCRETE PLANTER BAND LAYOUT DETAIL 1
NTS



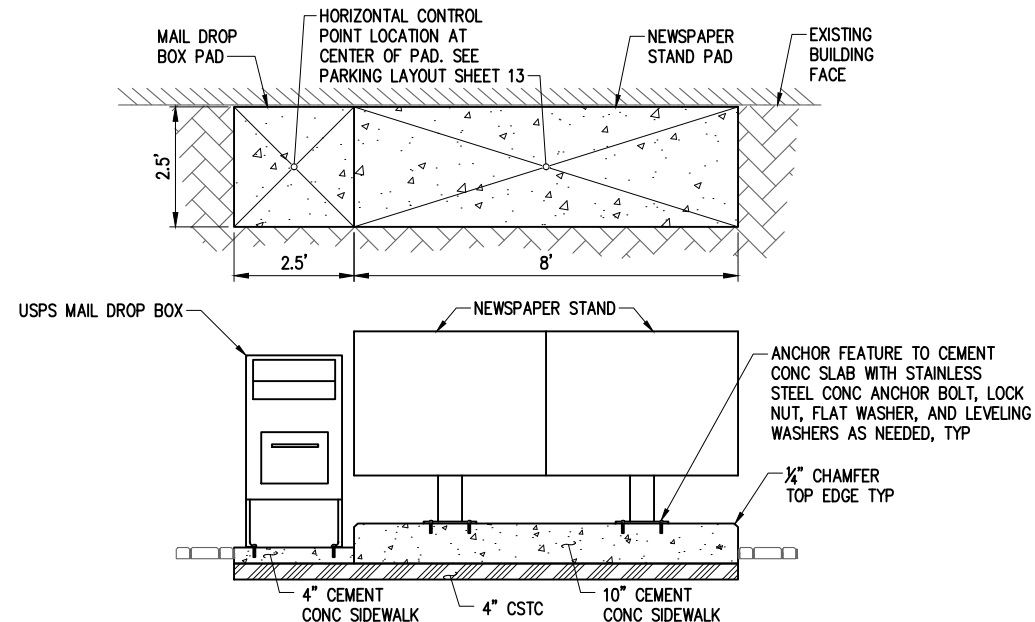
MANHOLE COLLAR DETAIL 2
NTS



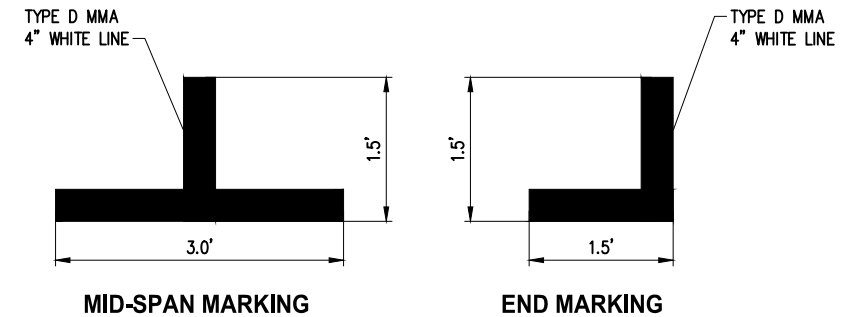
MANHOLE COLLAR IN CROSSWALK DETAIL 3
NTS



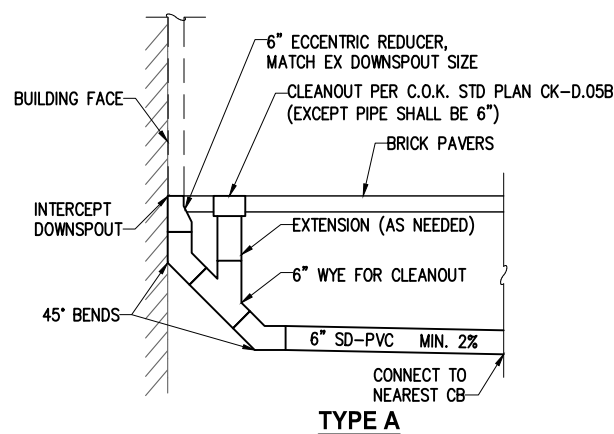
PREFABRICATED CEMENT CONCRETE WHEEL STOP DETAIL 4
NTS



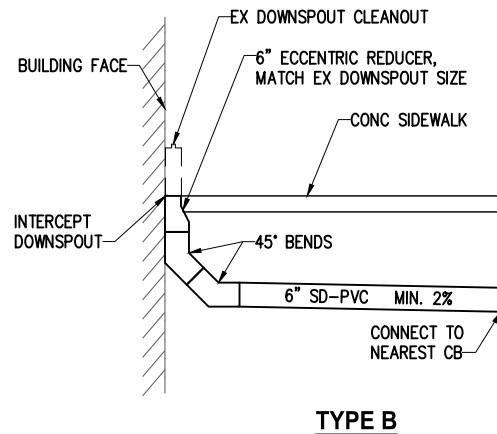
NEWSPAPER STAND & MAIL DROP BOX PAD DETAIL 5
NTS



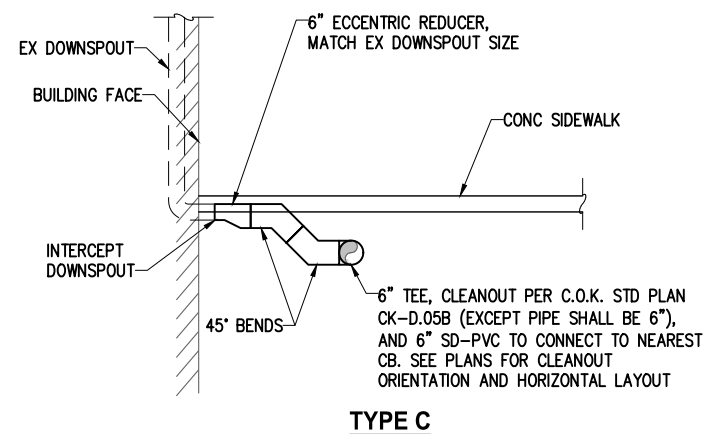
PARALLEL PARKING MARKING DETAIL 6
NTS



TYPE A



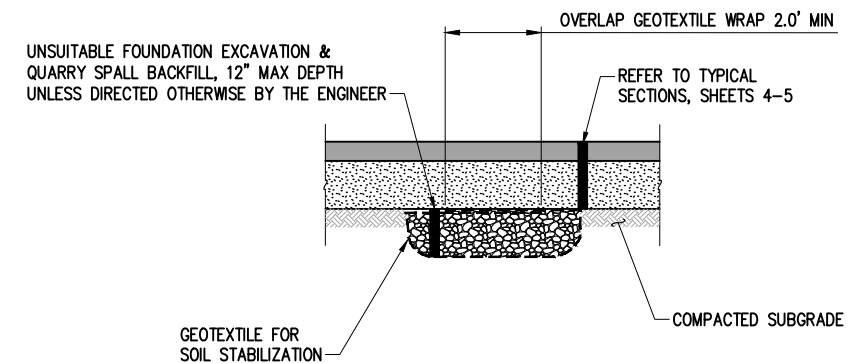
TYPE B



TYPE C

NOTE: ADDITIONAL FITTINGS MAY BE NECESSARY THAN SHOWN IN THIS DETAIL

DOWNSPOUT CONNECTION DETAIL 7
NTS



UNSUITABLE FOUNDATION REPAIR DETAIL 8
NTS

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: EEO	4/2023
DRAWN BY: DG	4/2023



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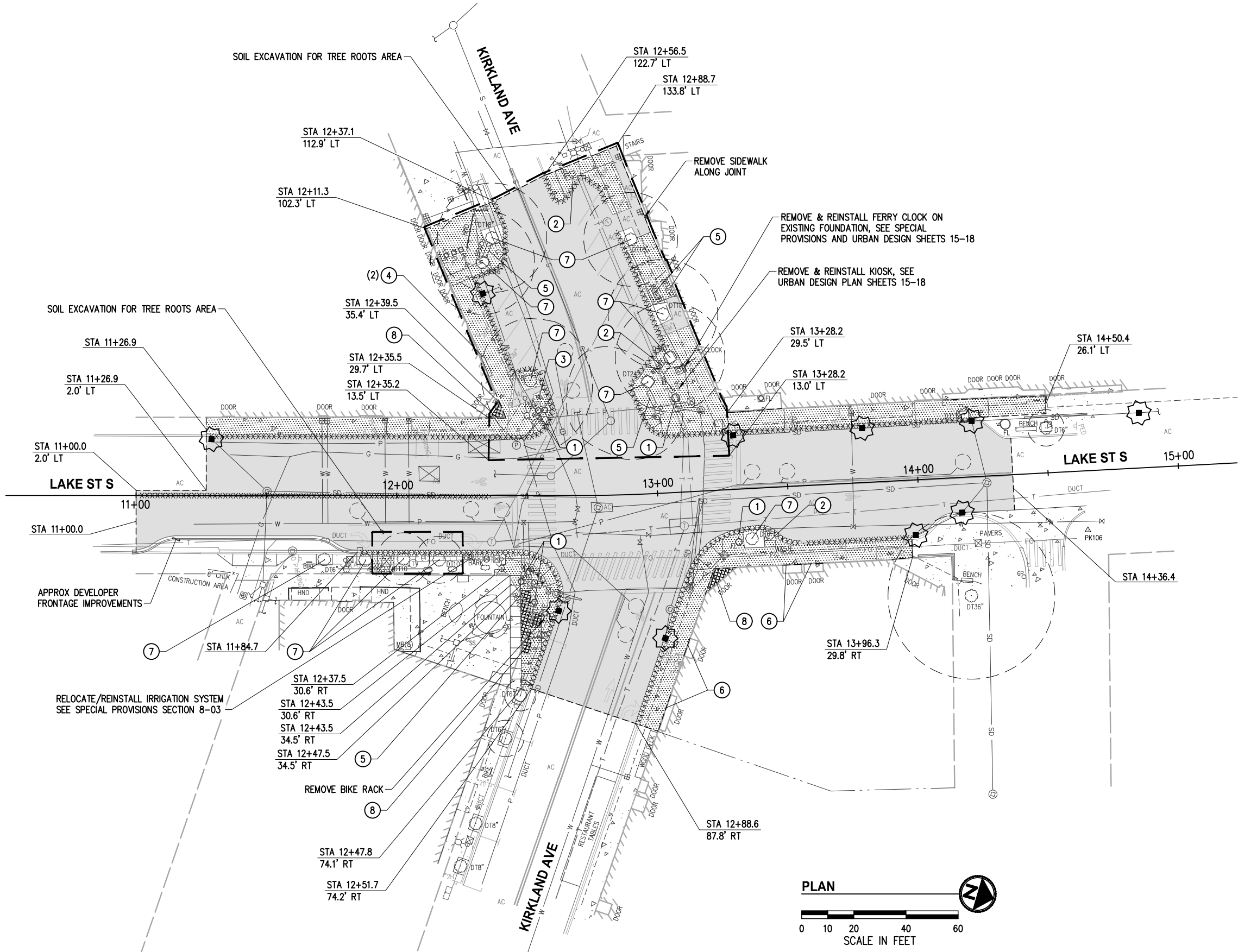
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DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

DETAILS

REFERENCE SHEET NO.
SHEET 7 OF 37 SHEETS

December 4, 2023 - 5:39 PM - DAREK - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROV\DESIGN\DRAWINGS\CONTRACT\20045SP.DWG - Layout Name: SP (01)



GENERAL NOTES

1. PRESERVE AND PROTECT ALL UTILITIES, STRUCTURES, AND VEGETATION NOT CALLED OUT FOR REMOVAL.
2. ITEMS NOTED FOR REMOVAL ARE TO BE DEMOLISHED, HAULED, AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
3. MAINTAIN DRIVEWAY AND BUSINESS ACCESS, SEE SPECIAL PROVISIONS.
4. ASPHALT & CONCRETE REMOVAL LIMITS SHOWN SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY DEMOLITION ACTIVITIES.
5. ADJUST SAWCUT LINES AS NECESSARY TO AVOID UTILITIES.
6. SIDEWALK SHALL BE REMOVED TO BUILDING FACE OR NEAREST JOINT BEYOND LIMITS SHOWN UNLESS DIRECTED OTHERWISE.
7. 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.
8. PRESERVE AND PROTECT ALL BUILDING AWNINGS
9. FOR TREATMENT OF EXISTING SIGNAL AND ILLUMINATION EQUIPMENT SEE SIGNAL PLAN SHEETS 26-29.
10. FOR TREATMENT OF EXISTING WATER AND SEWER FEATURES SEE WATER & SEWER PLAN SHEET 10.
11. FOR TREATMENT OF EXISTING STORM FEATURES SEE STORM PLAN SHEET 9.

CONSTRUCTION NOTES

- 1 REMOVE & REINSTALL PLANTER, SEE URBAN DESIGN PLAN SHEETS 15-18
- 2 REMOVE & REINSTALL WASTE/RECYCLE RECEPTACLE, SEE URBAN DESIGN PLAN SHEETS 15-18
- 3 REMOVE & REINSTALL USPS DROP BOX, SEE ROADWAY PLAN SHEET 11
- 4 REMOVE & REINSTALL NEWSPAPER STAND ON NEW CONC PAD, SEE ROADWAY PLAN SHEET 11
- 5 SALVAGE BENCH, SEE SPECIAL PROVISIONS
- 6 SAWCUT ACROSS DOORWAY THRESHOLD
- 7 PRESERVE AND PROTECT TREE, SEE LANDSCAPE PLAN SHEETS 19-21 AND SPECIAL PROVISIONS
- 8 SHOULD AGREEMENT WITH PROPERTY OWNER BE REVOKED, REMOVAL LIMITS SHALL BE ADJUSTED TO LOCATION SHOWN WITHIN RIGHT OF WAY

LEGEND

- XXXXXXXXXXXXX - REMOVE CURB
- FULL DEPTH SAWCUT, LOCATIONS NOTED
- SOIL EXCAVATION FOR TREE ROOTS AREA, SEE SPECIAL PROVISIONS SECTION 2-03
- REMOVE ASPHALT CONCRETE PAVEMENT & UNDERLYING CEMENT CONCRETE ROADWAY
- REMOVE CEMENT CONCRETE SIDEWALK
- INLET PROTECTION PER C.O.K. STD PLAN CK-E.11
- APPROX. TREE CRITICAL ROOT ZONE
- DO NOT INCLUDE REMOVAL AREA IF PROPERTY OWNER AGREEMENT IS REVOKED, SEE NOTE 8.

DATE	NO.	REVISION	BY



UPI NO.:
SURVEY NO.:
HORZ. DATUM:
WSPCS, N ZONE, NAD 83/11
DESIGNED BY:
EEO

FED. AID PROJ. NO.:
FIELD BOOK(S):
VERT. DATUM:
NAVD 88
DRAWN BY:
DG



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DEPARTMENT OF PUBLIC WORKS
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LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

SITE PREPARATION & TESC PLAN

REFERENCE
SHEET NO.
SHEET
8
OF
37
SHEETS

Sanitary Sewer Layout Plan and Profile View

Plan View (Left):

- Shows the sewer line (13) running along the south side of Kirkland.
- Manholes (1), (3), and (7) are marked along the line.
- Building footprints, stairs, and doors are shown for context.

Profile View (Right):

Station	Pipe Type	Length (LF)	Slope (%)	Ground Elevation (ft)	Pipe Elevation (ft)	Notes
STA 14+21.8	CB TYPE 1	38	2.00	29.15 (12"S)	29.70 (12"N)	FG ABOVE PIPE
STA 14+83.5	CB TYPE 1	25	3.47	30.42 (6"SW)	29.05 (12"NE)	EG ABOVE PIPE
STA 14+26.4	CB TYPE 2	15	16.06	28.20 (12"SW)	23.30 (24"S)	EXIST CB 1381

Profile View Details:

- Ground Elevation (ft):** 29.15 (12"S), 29.70 (12"N), 30.42 (6"SW), 29.05 (12"NE), 28.20 (12"SW), 28.20 (12"SE), 23.30 (24"E), 23.30 (24"S).
- Pipe Elevation (ft):** 29.70 (12"N), 29.05 (12"NE), 23.30 (24"E), 23.30 (24"S).
- Existing Manhole 1381:** RIM 33.43, IE IN 30.80 (12"SE), IE OUT 30.60 (12"NW).
- Other Labels:** EXIST 12" SD, EX COM.

Sanitary Sewer Layout Plan

LAKE ST S 11+00 12+00 13+00 14+00 15+00

SOUTH LEG CONNECTION

EAST LEG CONNECTION A

EAST LEG CONNECTION B

NORTH LEG CONNECTION

TYPE A

TYPE B

TYPE C

REMOVE 4" PIPE

SDMH 1051
RIM 33.88
IE 22.5 N, 24" CONC
IE 22.7 S, 12" CONC
IE 22.3 SW, 66" CONC
IE 24.2 E, 24" CONC

CB 1437
RIM 33.11
IE 31.0 N, 8" CPP

CB 1438
RIM 33.00
IE 30.2 S, 8" CPP
IE 29.8 N, 12" CPP

CB 1382
RIM 32.84
IE 29.7 S, 12" CPP
IE 29.7 N, 12" CPP
IE 29.5 NE, 12" CPP

CB 2522
RIM 32.55
IE 29.7 N, 12" CPP
IE 29.7 S, 12" CPP

SDMH 1113
RIM 33.30
IE 29.0 SW, 4" PVC
IE 25.6 N, 12" CONC
IE 25.9 E, 12" CONC

CB 3104
RIM 33.50
IE 27.4 W, 12" CONC
IE 27.4 SE, 12" PVC
IE 27.4 E, 12" CPP
IE 28.2 NE, 8" PVC

CB 3105
RIM 33.11
IE 28.2 SW, 8" PVC
IE 28.9 N, 6" PVC
IE 28.5 E, 12" CONC

CB 3078
RIM 33.64
IE 30.6 NW, 6" PVC
IE 30.6 S, 4" PVC
IE 32.6 E, 2" PVC

CB 2087
RIM 33.01
IE 28.3 N, 12" PVC
IE 29.3 SE, 6" PVC

SDMH 1379
RIM 33.11
IE 30.8 E, 6" CONC
IE 29.9 W, 6" CONC

CB 1378
RIM 32.79
IE 31.6 N, 6" PVC
IE 31.6 W, 6" CONC

CB
RIM 33.50
IE 31.5 N, 6" PLASTIC
IE 31.8 E, 3" PLASTIC

CB 1380
RIM 33.16
IE 30.9 NW, 8" PVC

CB 1381
RIM 33.46
IE 30.6 NW, 12" CPP
IE 30.8 SE, 8" PVC

SDMH 1031
RIM 33.72
IE 28.2 SW, 12" CPP
IE 23.3 E, 24" CONC
IE 28.2 SE, 12" CPP
IE 23.3 S, 24" CONC

CB 1381
RIM 33.46
IE 30.6 NW, 12" CPP
IE 30.8 SE, 8" PVC

DOOR

WASTE

SD

DRAIN

US

1 **2** **3** **4** **5** **6** **7** **8** **9** **10** **11** **12** **13**

40

EXIST CB 2087

RIM 33.59

IE IN 28.40 (12'E)

IE IN 29.30 (6'SE)

IE OUT 28.30 (12'N)

CB TYPE 1

STA 12+54.1, 69.2' RT

RIM 32.78

IE OUT 29.91 (12'W)

3

35

FG ABOVE PIPE

30

EG ABOVE PIPE

25

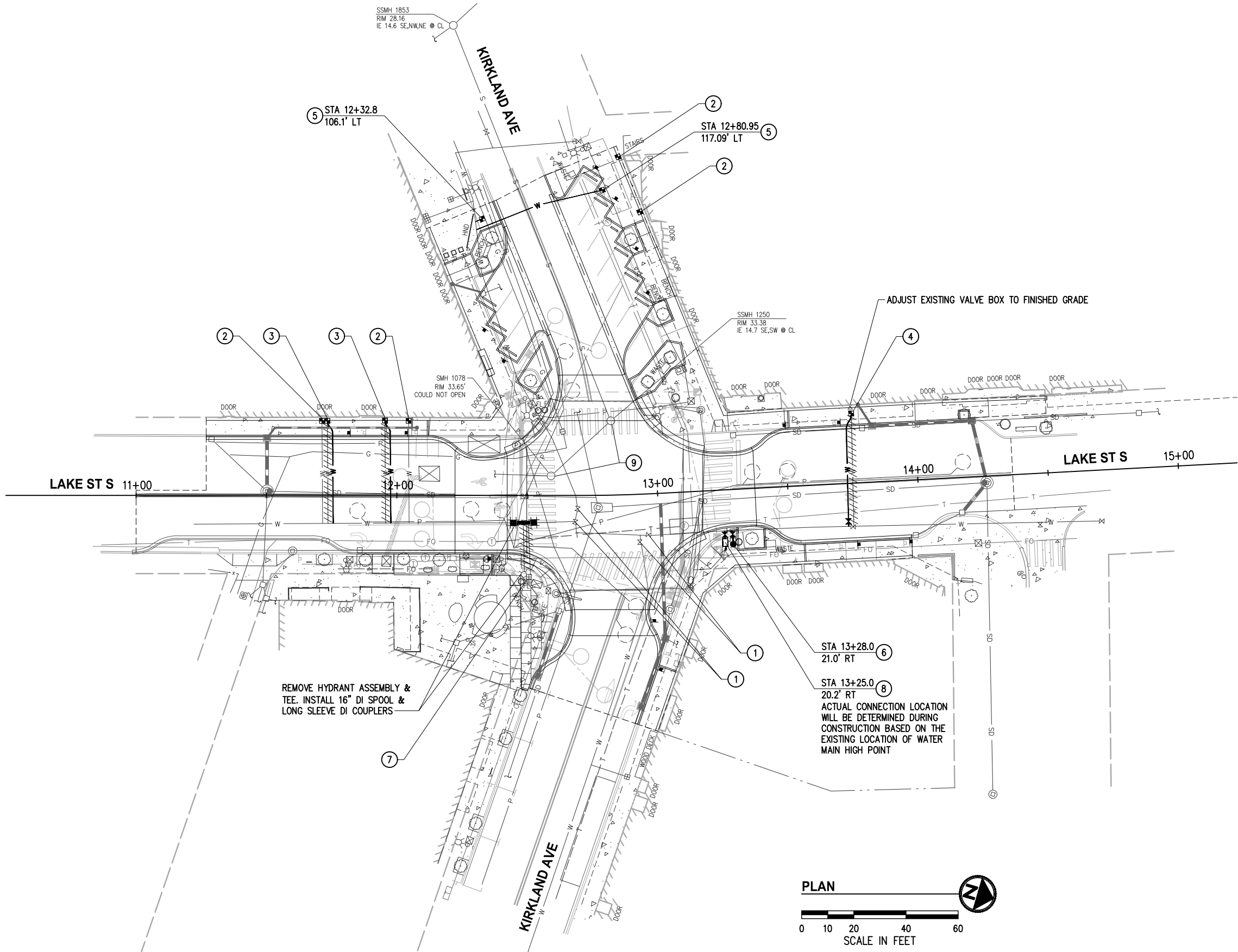
26 LF, 12" PVC SDR 35

S=5.78%

20

SHEET
9
OF
37
SHEETS

December 4, 2023 - 5:39 PM - DAREK GOCH - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\DRAWINGS\CONTRACT\20045\WATR-SWR.DWG - Layout Name: WTR-SWR (01)



GENERAL NOTES

- 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 & REPLACE VALVE BOX PER CK-W.35
- REMOVE & REPLACE METER BOX PER C.O.K. STD PLAN CK-W.23
- REMOVE EX CORP STOP AND INSTALL REPAIR BAND AT MAIN, INSTALL NEW 1" SERVICE PER C.O.K. STD PLAN CK-W.18 AND METER BOX PER C.O.K. STD PLAN CK-W.23. REINSTALL EX METER
- REMOVE EX VALVE & SADDLE AND INSTALL REPAIR BAND AT MAIN, INSTALL NEW 1.5" SERVICE PER C.O.K. STD PLAN CK-W.19 AND METER BOX PER C.O.K. STD PLAN CK-W.25. REINSTALL EX METER
- INSTALL NEW 1" SERVICE FOR IRRIGATION SYSTEM PER C.O.K. STD PLAN CK-W.18 AND METER BOX PER C.O.K. STD PLAN CK-W.23, SEE IRRIGATION PLAN SHEETS 22-24
- INSTALL NEW HYDRANT ASSEMBLY PER C.O.K. STD PLAN CK-W.14 EXCEPT INSTALL 16"x6" TAPPING TEE PER C.O.K. STD PLAN CK-W.06 (IN LIEU OF 6" DI TEE)
- REMOVE EXISTING 2" AIR-VAC ASSEMBLY AND INSTALL REPAIR BAND AT MAIN
- INSTALL NEW 2" AIR VAC ASSEMBLY PER C.O.K. STD PLAN CK-W.09, FINAL LOCATION TO BE APPROVED BY ENGINEER
- ADJUST STRUCTURE TO FINISHED GRADE PER C.O.K. STD PLAN CK-S.26 EXCEPT COLLAR SHALL BE PER DETAIL 2, SHEET 7; INSTALL ROUND SOLID LOCKING COVER WITH 7" TALL FRAME PER C.O.K. STD PLAN CK-S.16A, EXCEPT WITH 4 EON BOLTS AND CRETEX COMPOSITE RISERS, SEE SPECIAL PROVISIONS

LEGEND

- ////// REMOVE EXISTING LINE
- W — PROPOSED WATER SERVICE LINE
- WATER METER
- FIRE HYDRANT
- AIR VAC ASSEMBLY

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: EEO	DRAWN BY: DG
4/2023	4/2023



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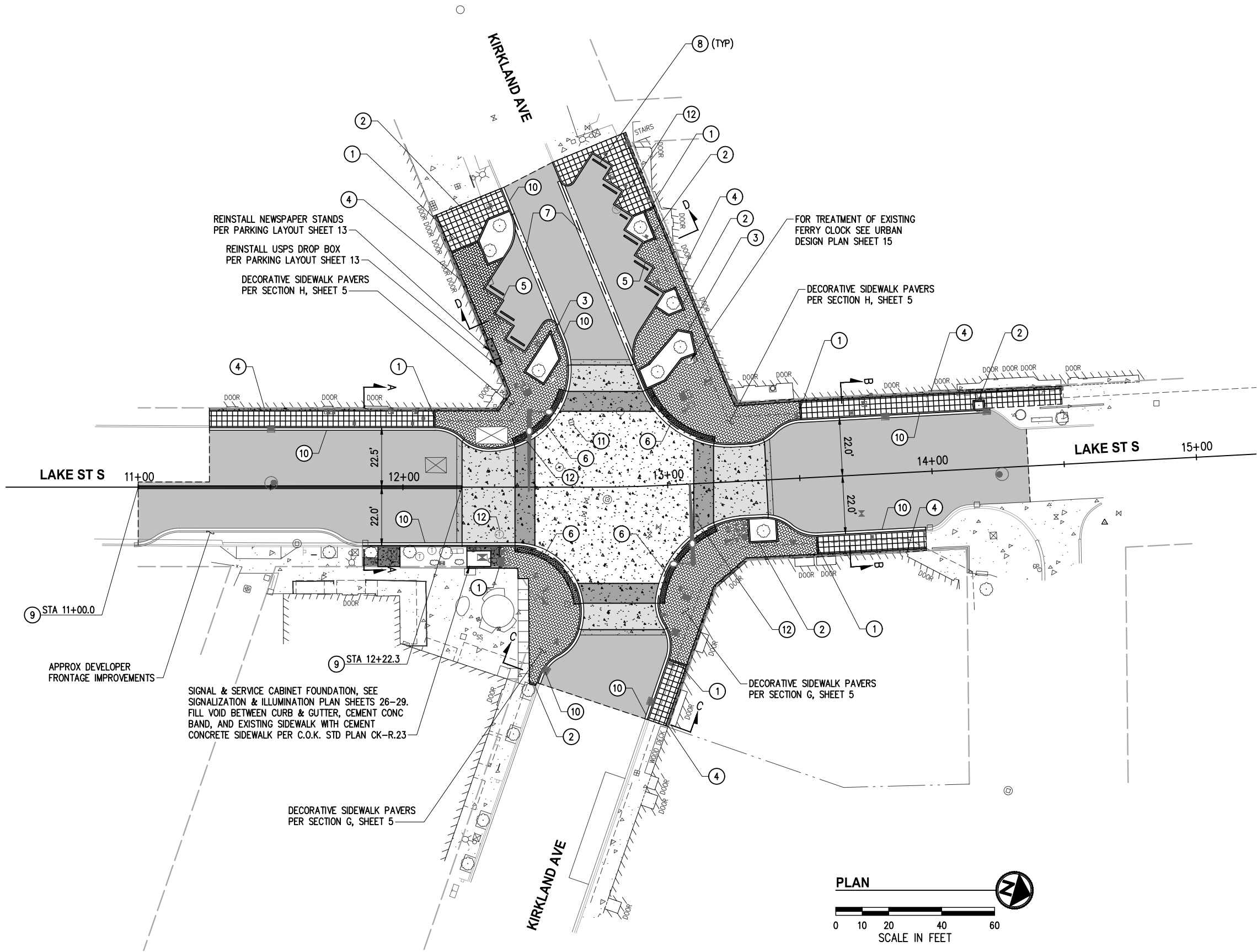


LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

WATER & SEWER PLAN

REFERENCE SHEET NO.
SHEET 10 OF 37 SHEETS

December 4, 2023 - 5:40 PM - DAREK GOCH - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\DRAWINGS\CONTRACT\20045RD.DWG - Layout Name: RD (01) LAKE ST S



GENERAL NOTES

1. FOR ALIGNMENT & SURVEY CONTROL, SEE SHEET 3.
2. FOR TYPICAL SECTIONS & PAVEMENT DEPTHS, SEE SHEETS 4-5.
3. FOR INTERSECTION LAYOUT & GRADING SEE SHEET 12.
4. FOR DIAGONAL PARKING LAYOUT SEE SHEET 13.
5. FOR CONCRETE JOINTING PLAN SEE SHEET 14.
6. CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING FEATURES AND UTILITIES NOT SPECIFIED FOR REMOVAL.
7. PRESERVE AND PROTECT ALL BUILDING AWNINGS.

CONSTRUCTION NOTES

- 1 CEMENT CONC BAND AT SIDEWALK PER DETAIL 4, SHEET 6
- 2 CEMENT CONC BAND AT PLANTER PER DETAIL 5 SHEET 6, LAYOUT DETAIL 1 SHEET 7, INTERSECTION LAYOUT SHEET 12, AND PARKING LAYOUT SHEET 13
- 3 CEMENT CONC PLANTER CURB PER DETAIL 6 SHEET 6, LAYOUT DETAIL 1 SHEET 7, AND PARKING LAYOUT SHEET 13
- 4 CEMENT CONC SIDEWALK AT TRANSITION PER DETAIL 3. SHEET 6
- 5 CEMENT CONC VERTICAL CURB PER C.O.K. STD PLAN CK-R.17C
- 6 CEMENT CONC VALLEY CURB PER DETAIL SHEET 6
- 7 CEMENT CONC VALLEY GUTTER PER C.O.K. STD PLAN CK-R17B
- 8 CEMENT CONC WHEEL STOP PER DETAIL SHEET 7
- 9 CEMENT CONC MEDIAN CURB PER C.O.K. STD PLAN CK-R.19A
- 10 CEMENT CONC CURB & GUTTER PER C.O.K. STD PLAN CK-R.17
- 11 ADJUST GAS VALVE TO GRADE
- 12 UTILITY TO BE RELOCATED/REMOVED/ADJUSTED BY OTHERS

LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- SAWCUT MATCH LINE
- DECORATIVE SIDEWALK PAVERS PER SECTION NOTED
- SCORED CEMENT CONC SIDEWALK PER C.O.K. STD PLAN CK-R.23 AND URBAN DESIGN SHEETS 15-18
- HMA CL 1/2" PG 58H-22
- CEMENT CONC ROADWAY RAMP PER SECTION F SHEET 5
- INTEGRAL COLORED CEMENT CONCRETE CROSSWALK, SEE SECTION F, SHEET 5
- RAISED DECORATIVE CEMENT CONC INTERSECTION PER SECTION E SHEET 5, INTERSECTION LAYOUT SHEET 12, JOINTING PLAN SHEET 14, AND URBAN DESIGN SHEETS 15-18
- RADIAL CAST IRON TRUNCATED DOME PAD ON CEMENT CONC SLAB, SEE TYPICAL SECTIONS SHEET 4
- STORM STRUCTURES, SEE STORM SHEET 9
- SIGN, SEE CHANNELIZATION & SIGNING SHEET 25
- WATER APPURTENANCES, SEE WATER SHEET 10
- SIGNAL AND ILLUMINATION EQUIPMENT, SEE SHEETS 26-29
- TYPICAL SECTION REFERENCE, SEE SHEET 4

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: EE0	4/2023

DESIGNED BY: EE0	4/2023
DRAWN BY: DG	4/2023



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LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

ROADWAY PLAN

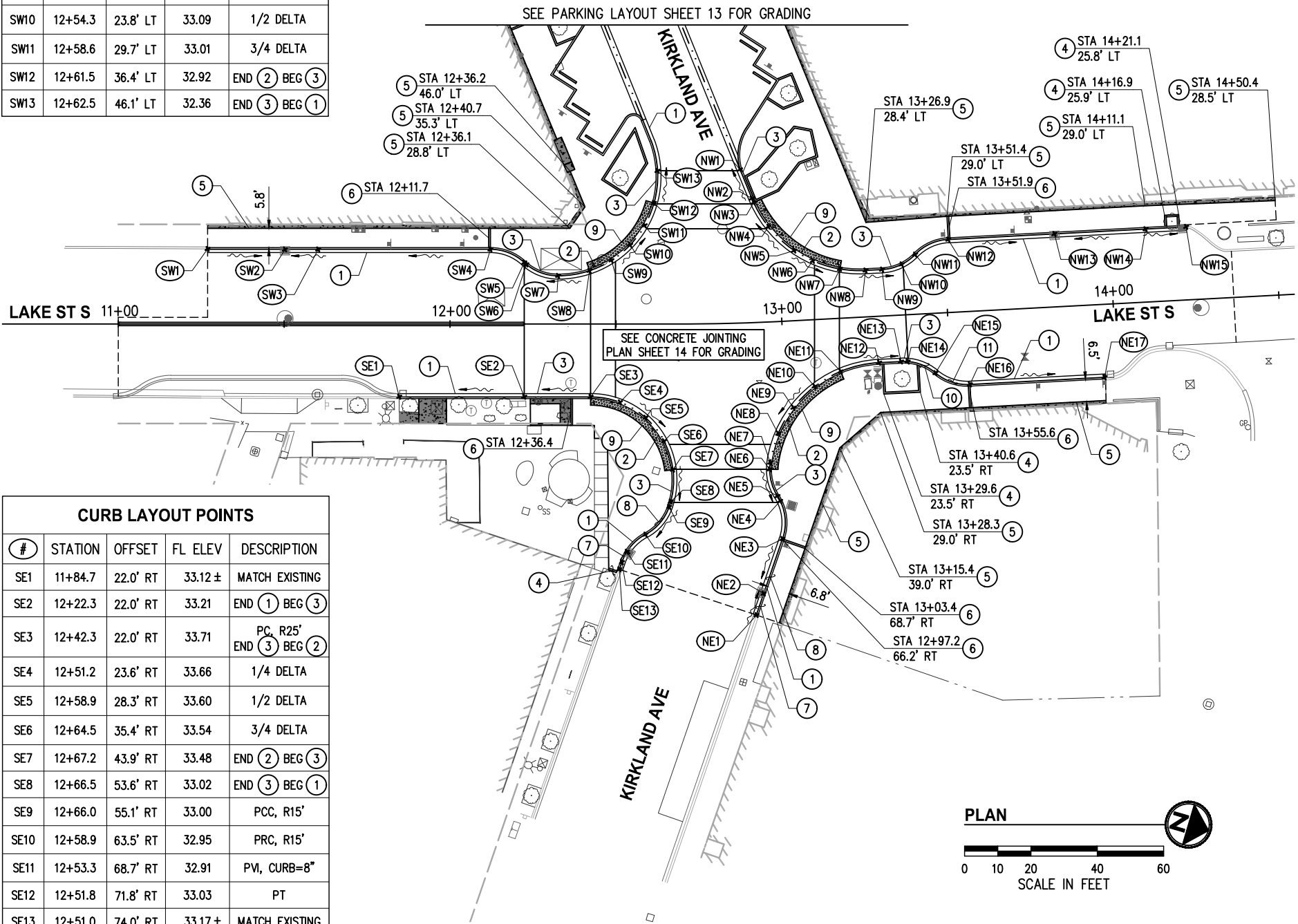
REFERENCE
SHEET NO.

SHEET
11
OF
37
SHEETS

December 4, 2023 - 5:41 PM - DAREK GOCH - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\DRAWINGS\CONTRACT\20045\INT.DWG - Layout Name: INT (01)

CURB LAYOUT POINTS				
#	STATION	OFFSET	FL ELEV	DESCRIPTION
SW1	11+26.9	22.6' LT	32.67 ±	MATCH EXISTING
SW2	11+50.2	22.5' LT	32.52	PVI
SW3	11+60.2	22.5' LT	32.70	PVI
SW4	12+12.2	22.5' LT	32.97	PC, R15'
SW5	12+22.4	18.5' LT	33.05	PRC, R15'
SW6	12+23.0	18.0' LT	33.06	END (1) BEG (3)
SW7	12+32.6	14.5' LT	33.20	PCC, R30'
SW8	12+42.0	16.0' LT	33.26	END (3) BEG (2)
SW9	12+48.6	19.2' LT	33.18	1/4 DELTA
SW10	12+54.3	23.8' LT	33.09	1/2 DELTA
SW11	12+58.6	29.7' LT	33.01	3/4 DELTA
SW12	12+61.5	36.4' LT	32.92	END (2) BEG (3)
SW13	12+62.5	46.1' LT	32.36	END (3) BEG (1)

CURB LAYOUT POINTS				
#	STATION	OFFSET	FL ELEV	DESCRIPTION
SE1	11+84.7	22.0' RT	33.12 ±	MATCH EXISTING
SE2	12+22.3	22.0' RT	33.21	END (1) BEG (3)
SE3	12+42.3	22.0' RT	33.71	PC, R25' END (3) BEG (2)
SE4	12+51.2	23.6' RT	33.66	1/4 DELTA
SE5	12+58.9	28.3' RT	33.60	1/2 DELTA
SE6	12+64.5	35.4' RT	33.54	3/4 DELTA
SE7	12+67.2	43.9' RT	33.48	END (2) BEG (3)
SE8	12+66.5	53.6' RT	33.02	END (3) BEG (1)
SE9	12+66.0	55.1' RT	33.00	PCC, R15'
SE10	12+58.9	63.5' RT	32.95	PRC, R15'
SE11	12+53.3	68.7' RT	32.91	PVI, CURB=8"
SE12	12+51.8	71.8' RT	33.03	PT
SE13	12+51.0	74.0' RT	33.17 ±	MATCH EXISTING



CURB LAYOUT POINTS				
#	STATION	OFFSET	FL ELEV	DESCRIPTION
NW1	12+89.0	46.3' LT	32.61	BEG (3)
NW2	12+92.5	37.4' LT	33.45	PC, R35'
NW3	12+93.0	36.2' LT	33.57	END (3) BEG (2)
NW4	12+97.4	28.7' LT	33.62	1/4 DELTA
NW5	13+04.9	21.1' LT	33.67	PVI
NW6	13+10.3	17.7' LT	33.62	3/4 DELTA
NW7	13+18.3	14.9' LT	33.56	END (2) BEG (3)
NW8	13+26.0	14.0' LT	33.42	PT
NW9	13+31.0	14.0' LT	33.32	PC, R15'
NW10	13+37.0	15.2' LT	33.18	END (3) BEG (1)
NW11	13+41.2	18.0' LT	33.15	PRC, R15'
NW12	13+51.4	22.0' LT	33.10	PT
NW13	13+83.5	22.0' LT	32.94	PVI
NW14	14+10.9	22.0' LT	33.08	PVI
NW15	14+23.2	22.0' LT	32.96 ±	MATCH EXISTING

CURB LAYOUT POINTS				
#	STATION	OFFSET	FL ELEV	DESCRIPTION
NE1	12+89.3	88.1' RT	32.97 ±	MATCH EXISTING
NE2	12+91.4	81.7' RT	32.83	PVI, CURB=8"
NE3	12+96.9	65.5' RT	32.97	PC, R15'
NE4	12+96.8	54.1' RT	33.05	END (1) BEG (3)
NE5	12+96.1	52.6' RT	33.12	PRC, R15'
NE6	12+94.4	44.4' RT	33.54	END (3) BEG (2)
NE7	12+94.6	42.4' RT	33.55	PCC, R35'
NE8	12+97.2	33.8' RT	33.60	1/4 DELTA
NE9	13+02.1	26.2' RT	33.64	1/2 DELTA
NE10	13+08.8	20.1' RT	33.69	3/4 DELTA
NE11	13+16.9	16.0' RT	33.74	END (2) BEG (3)
NE12	13+28.6	14.0' RT	33.53	PT
NE13	13+35.2	14.0' RT	33.42	PC, R15'
NE14	13+37.3	14.1' RT	33.37	END (3) BEG (1)
NE15	13+45.4	18.0' RT	33.33	PRC, R15'
NE16	13+55.6	22.0' RT	33.27	PT
NE17	13+96.2	22.0' RT	33.10 ±	MATCH EXISTING

GENERAL NOTES

- FOR TYPICAL SECTIONS AND PAVEMENT DEPTHS SEE SHEET 4.
- FOR CONCRETE JOINTING PLAN SEE SHEET 14.
- FOR PARKING LAYOUT SEE SHEET 13.
- STRAIGHT GRADE HMA ROADWAY FROM SAWCUT TO CEMENT CONCRETE ROADWAY RAMP ALONG CONSTRUCTION CENTERLINE OR DOUBLE YELLOW CENTERLINE UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES

- CURB & GUTTER PER C.O.K. STD PLAN CK-R.17. CURB HEIGHT SHALL BE PER STD PLAN UNLESS OTHERWISE NOTED
- CEMENT CONC VALLEY CURB PER DETAIL 2, SHEET 6
- VALLEY CURB TRANSITION PER DETAIL 7, SHEET 6
- CEMENT CONC BAND AT PLANTER PER DETAIL 5, SHEET 6 AND LAYOUT DETAIL 1, SHEET 7
- CEMENT CONC SIDEWALK AT TRANSITION PER DETAIL 3, SHEET 6
- CEMENT CONC BAND AT SIDEWALK PER DETAIL 4, SHEET 6
- TRANSITION FROM 8" CURB AT CB TO MATCHING EXISTING CURB AT SAWCUT LOCATION
- TRANSITION FROM 8" CURB AT CB TO 6" CURB AT BOTTOM OF ROADWAY RAMP
- RADIAL DETECTABLE WARNING SURFACE ON CEMENT CONC SLAB PER TYPICAL SECTION E, SHEET 5
- TRANSITION FROM 6" CURB AT BOTTOM OF ROADWAY RAMP (POINT #NE14) TO 5" CURB AT PRC (POINT #NE15)
- TRANSITION FROM 5" CURB AT PRC (POINT #NE15) TO 6" CURB AT PT (POINT #NE16)

DATE	NO.	REVISION	BY		



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: EEO	4/2023
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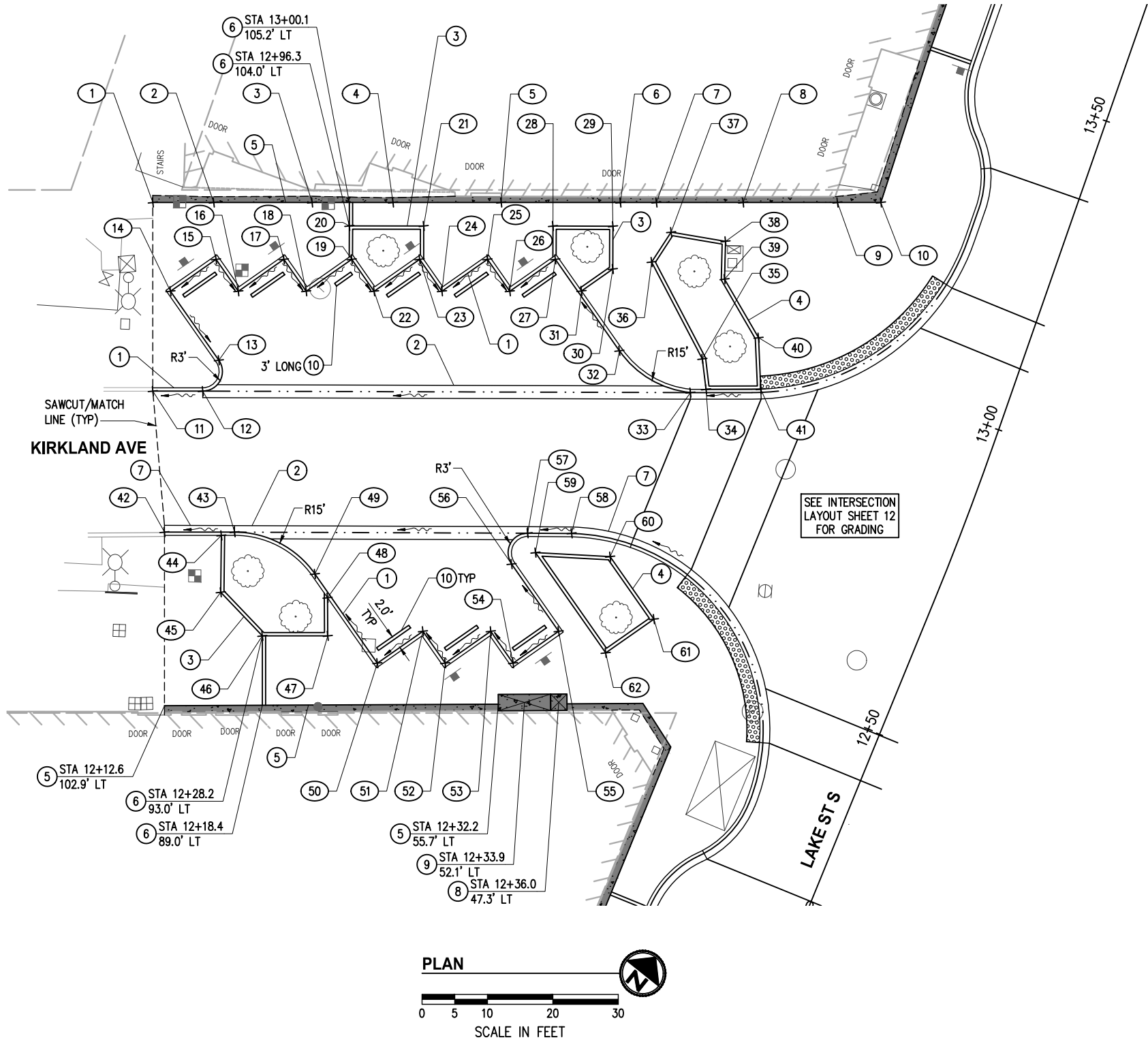
LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

INTERSECTION LAYOUT PLAN

REFERENCE SHEET NO.
SHEET 12 OF 37 SHEETS

December 4, 2023 - 5:41 PM - DAREK GOCH - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\CONTRACT\20045\DET_PRKG.DWG - Layout Name: PRKG DET

CURB LAYOUT POINTS				
#	STATION	OFFSET	ELEV	DESCRIPTION
1	12+87.3	133.5' LT	30.09	MATCH EXIST (5)
2	12+91.6	124.7' LT	30.36	PVI (5)
3	12+98.2	110.6' LT	30.89	PVI (5)
4	13+02.3	98.9' LT	31.39	PVI (5)
5	13+07.8	83.3' LT	31.88	PVI (5)
6	13+13.8	66.1' LT	32.42	PVI (5)
7	13+15.6	60.9' LT	32.51	PVI (5)
8	13+20.0	48.3' LT	33.10	PVI (5)
9	13+24.7	34.7' LT	33.80	PVI (5)
10	13+26.9	28.4' LT	33.53	PVI (5)
11	12+56.5	122.7' LT	30.16±	MATCH EXIST (1)
12	12+59.4	115.7' LT	30.21	FLOWLINE (2) PC (1), TOC EL 30.71
13	12+64.7	115.2' LT	30.58	PT (1)
14	12+71.6	126.0' LT	30.30	AP (1)
15	12+81.0	121.3' LT	30.52	AP (1)
16	12+76.7	116.4' LT	30.49	AP (1)
17	12+85.8	111.7' LT	30.87	AP (1)
18	12+81.6	106.7' LT	30.84	AP (1)
19	12+90.4	101.9' LT	31.26	AP (1)
20	12+96.3	104.0' LT	31.17	AP (3)
21	13+00.5	93.3' LT	31.58	AP (3)
22	12+86.2	97.0' LT	31.23	AP (1)
23	12+94.8	92.2' LT	31.63	AP (1)
24	12+90.6	87.3' LT	31.60	AP (1)
25	12+98.9	82.4' LT	31.98	AP (1)
26	12+94.9	77.5' LT	31.95	AP (1)
27	13+02.3	72.6' LT	32.29	AP (1)
28	13+07.0	74.6' LT	32.16	AP (3)
29	13+10.0	65.9' LT	32.44	AP (3)
30	13+03.8	63.8' LT	32.54	AP (3)
31	12+99.0	67.2' LT	32.47	AP (3)
32	12+91.5	58.7' LT	32.77	PC (1)
33	12+89.0	46.3' LT	32.61	FLOWLINE (2) PT (1), TOC EL 33.11
34	12+90.4	44.2' LT	33.72	AP (4)
35	12+95.0	46.3' LT	33.63	AP (4)
36	13+06.8	58.6' LT	33.13	AP (4)
37	13+12.1	57.2' LT	33.17	AP (4)
38	13+13.5	48.9' LT	33.56	AP (4)
39	13+07.9	47.2' LT	33.63	AP (4)
40	13+01.2	39.3' LT	33.99	AP (4)
41	12+93.5	36.4' LT	34.11	AP (4)



GENERAL NOTES

- FOR SECTION & PAVEMENT DEPTHS SEE TYPICAL SECTION D, SHEET 4.
- FOR INTERSECTION LAYOUT & GRADING SEE SHEET 12.
- PRESERVE & PROTECT ALL TREES, SEE LANDSCAPE PLAN SHEETS 19-20 AND SPECIAL PROVISIONS FOR REQUIREMENTS.

CONSTRUCTION NOTES

- VERTICAL CURB PER C.O.K. STD PLAN CK-R.17C
- VALLEY GUTTER PER C.O.K. STD PLAN CK-R17B
- CEMENT CONC BAND AT PLANTER PER DETAIL 5, SHEET 6 AND LAYOUT DETAIL 1, SHEET 7
- CEMENT CONC PLANTER CURB PER DETAIL 6, SHEET 6 AND LAYOUT DETAIL 1, SHEET 7
- CEMENT CONC SIDEWALK AT TRANSITION PER DETAIL 3, SHEET 6
- CEMENT CONC BAND AT SIDEWALK PER DETAIL 4, SHEET 6
- CEMENT CONC CURB & GUTTER PER C.O.K. STD PLAN CK-R.17
- MAIL DROP BOX PAD PER DETAIL 5, SHEET 7
- NEWSPAPER STAND PAD PER DETAIL 5, SHEET 7
- WHEEL STOP PER DETAIL 4, SHEET 7

CURB LAYOUT POINTS				
#	STATION	OFFSET	ELEV	DESCRIPTION
42	12+37.2	112.9' LT	30.40±	MATCH EXIST (7)
43	12+41.3	103.0' LT	30.68	FLOWLINE (2, 7) PC (1), TOC EL 30.26
44	12+40.0	104.7' LT	31.21	AP (3)
45	12+32.0	101.5' LT	31.35	AP (3)
46	12+28.2	93.0' LT	31.50	AP (3)
47	12+32.0	83.8' LT	31.63	AP (3)
48	12+37.4	86.0' LT	31.60	AP (3)
49	12+40.0	89.2' LT	31.52	PT (1)
50	12+31.0	75.2' LT	31.95	AP (1)
51	12+38.1	70.6' LT	32.12	AP (1)
52	12+34.9	65.6' LT	32.31	AP (1)
53	12+42.1	61.0' LT	32.49	AP (1)
54	12+38.8	56.0' LT	32.68	AP (1)
55	12+46.0	51.4' LT	32.86	AP (1)
56	12+52.8	61.9' LT	32.55	PC (1)
57	12+58.1	61.4' LT	31.91	FLOWLINE (2, 7) PT (1), TOC EL 32.33
58	12+60.6	55.2' LT	32.10	PC (7)
59	12+55.8	59.2' LT	33.06	AP (4)
60	12+59.5	48.4' LT	33.32	AP (4)
61	12+53.2	38.6' LT	33.56	AP (4)
62	12+45.7	43.5' LT	33.59	AP (4)

DATE	NO.	REVISION	BY



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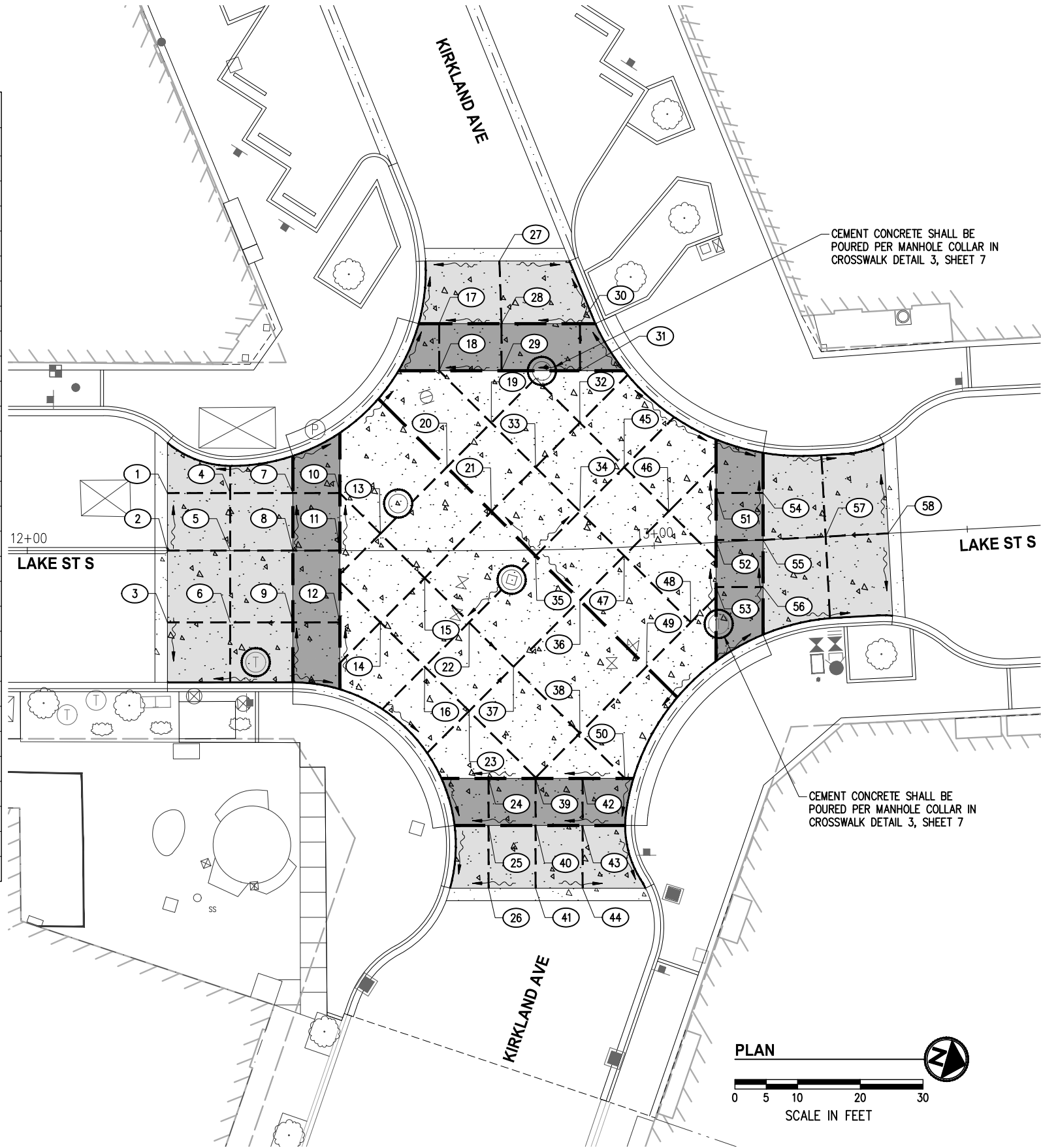
PARKING LAYOUT PLAN

REFERENCE
SHEET NO.

SHEET
13
OF
37
SHEETS

December 4, 2023 - 5:41 PM - DAREK GOCH - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\CONTRACT\20045\CONCSP.DWG - Layout Name: CONC SP (01)

CONCRETE PANEL POINTS			
#	STATION	OFFSET	ELEV
1	12+22.3	9.2' LT	33.25
2	12+22.3	0.0'	33.39
3	12+22.3	11.4' RT	33.34
4	12+32.3	9.2' LT	33.29
5	12+32.3	0.0'	33.44
6	12+32.3	11.4' RT	33.49
7	12+42.3	9.2' LT	33.37
8	12+42.3	0.0'	33.49
9	12+42.3	11.4' RT	33.63
10	12+49.8	9.2' LT	33.39
11	12+49.8	0.0'	33.59
12	12+49.8	11.4' RT	33.61
13	12+56.3	2.7' LT	33.62
14	12+56.3	11.4' RT	33.70
15	12+63.4	4.4' RT	33.78
16	12+63.4	18.5' RT	33.76
17	12+65.7	36.2' LT	33.04
18	12+65.7	28.7' LT	33.20
19	12+74.1	20.4' LT	33.51
20	12+66.9	13.3' LT	33.50
21	12+74.0	6.2' LT	33.76
22	12+70.5	11.4' RT	33.86
23	12+70.5	25.6' RT	33.70
24	12+73.5	36.3' RT	33.60
25	12+73.4	43.8' RT	33.53
26	12+73.4	53.8' RT	33.23
27	12+75.6	46.2' LT	32.78
28	12+75.9	36.2' LT	33.27
29	12+75.9	28.7' LT	33.40



CONCRETE PANEL POINTS			
#	STATION	OFFSET	ELEV
30	12+89.4	35.9' LT	33.56
31	12+89.1	28.4' LT	33.56
32	12+88.8	20.1' LT	33.71
33	12+81.3	13.2' LT	33.75
34	12+88.3	6.0' LT	33.91
35	12+81.0	0.9' RT	34.01
36	12+87.9	8.2' RT	33.91
37	12+77.3	18.5' RT	33.81
38	12+87.2	29.4' RT	33.69
39	12+80.4	36.4' RT	33.63
40	12+80.3	43.9' RT	33.55
41	12+80.2	53.9' RT	33.39
42	12+87.4	36.6' RT	33.61
43	12+87.2	44.1' RT	33.56
44	12+86.9	54.1' RT	33.28
45	12+95.8	12.8' LT	33.81
46	13+02.6	5.3' LT	33.88
47	12+95.2	1.4' RT	33.97
48	13+05.2	12.5' RT	33.82
49	12+97.8	19.2' RT	33.76
50	12+93.7	36.8' RT	33.61
51	13+10.3	7.9' LT	33.82
52	13+09.9	0.4' LT	33.94
53	13+09.5	7.1' RT	33.87
54	13+17.8	7.5' LT	33.75
55	13+17.4	0.0'	33.93
56	13+17.0	7.5' RT	33.85
57	13+27.4	0.0'	33.76
58	13+37.4	0.0'	33.57

- GENERAL NOTES**
1. CONCRETE PANEL JOINT LAYOUT IS FOR REFERENCE ONLY. CONTRACTOR TO SUBMIT PLACING AND JOINTING PLAN TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTING FORMS. ALIGN PROPOSED PANEL JOINTS WITH URBAN DESIGN DECORATIVE SCORING LAYOUT. SEE URBAN DESIGN PLAN SHEETS 15-18 FOR SCORE JOINT LAYOUT & DETAILS
 2. CLEAN JOINTS BY SAWCUT OR HAND TOOL. NO RADIUS ON EDGE. NO SMOOTH FLANGE TOOLING ON EITHER SIDE OF JOINT.
 3. LENGTH TO WIDTH RATIO BETWEEN JOINTS SHALL NOT EXCEED 1.5:1. JOINT SPACING SHALL NOT EXCEED 15'.
 4. CONCRETE PANELS TO BE FLUSH WITH ADJACENT CONCRETE PANELS WITH VERTICAL TOLERANCES LESS THAN 1/4"

- LEGEND**
- EXPANSION JOINT PER CEMENT CONC ROADWAY JOINT DETAIL SHEET 6
 - DOWELED EXPANSION JOINT PER CEMENT CONC ROADWAY JOINT DETAIL SHEET 6
 - CONTRACTION JOINT PER CEMENT CONC ROADWAY JOINT DETAIL SHEET 6
 - CEMENT CONC ROADWAY RAMP PER SECTION F, SHEET 5
 - INTEGRAL COLORED CEMENT CONC CROSSWALK PER SECTION F, SHEET 5
 - RAISED CEMENT CONCRETE INTERSECTION PER SECTION E, SHEET 5

DATE	NO.	REVISION	BY		



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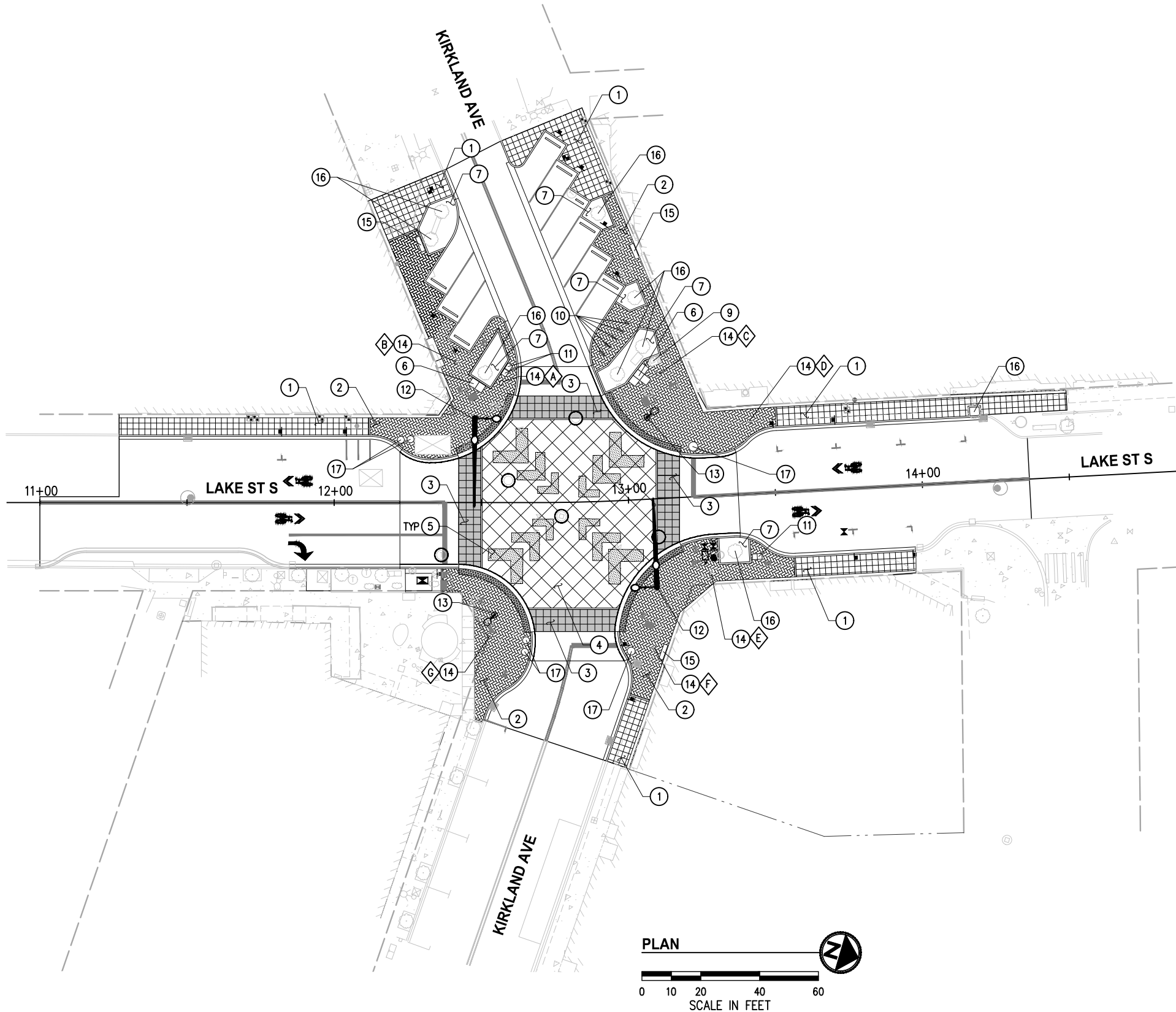
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**LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS**

CONCRETE JOINTING PLAN

REFERENCE SHEET NO.
SHEET 14 OF 37 SHEETS

December 4, 2023 - 5:42 PM - MARIANA.REYNA - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROV\DESIGN\DRAWINGS\CONTRACT\20045\URB.DWG - Layout Name: URB (01)



GENERAL NOTES

- EXISTING PLANTER POTS TO BE REMOVED, SALVAGED, AND STORED BY CONTRACTOR, SEE SITE PREPARATION SHEET 8. REINSTALL TO LOCATIONS AS SPECIFIED ON PLANS.
- ALL STATION/OFFSETS ARE CENTER OF URBAN DESIGN FEATURE, UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES

- SCORED CEMENT CONC SIDEWALK, SEE DETAIL SHEET 18.
- DECORATIVE PAVERS, SEE DETAIL SHEET 7.
- COLORLED CEMENT CONCRETE CROSSWALK PAVEMENT. SEE DETAIL SHEET 18.
- DECORATIVE CEMENT CONC INTERSECTION PAVEMENT, SEE DETAIL SHEET 18.
- DECORATIVE SURFACE TREATMENT, SEE DETAIL SHEET 18.
- BLOCK BENCH, SEE DETAIL SHEET 16.
- PLANTING AREA, SEE LANDSCAPE PLANS SHEET 19.
- HISTORIC CLOCK, SAVE AND PROTECT EXISTING FOUNDATION, REMOVE CLOCK AND STORE DURING CONSTRUCTION. REINSTALL ON EXISTING FOUNDATION.
- BIKE RACK, SEE DETAIL SHEET 16.
- REINSTALL WASTE/RECYCLE RECEPTACLE.
- DECORATIVE SIGNAL POLE WITH MAST ARM AND DECORATIVE ROADWAY LUMINAIRE, SEE SHEETS 26-29.
- DECORATIVE PEDESTRIAN LUMINAIRE AND POLE, SEE SHEETS 26-29.
- DECORATIVE MEDALLION INLAY, SEE DETAIL, SHEET 16 & SHEET 17 (7).
- STANDARD BENCH, SEE DETAIL SHEET 16.
- PRESERVE & PROTECT EXISTING TREE, SEE LANDSCAPE PLAN SHEETS 19-20.
- RELOCATE EXISTING PLANTER PLOT.

STANDARD BENCH SCHEDULE	
STATION	OFFSET
13+09.2	52.0' RT
13+06.5	84.3' LT
12+29.2	87.8' LT

BLOCK BENCH SCHEDULE	
STATION	OFFSET
13+05.7	42.3' LT

DECORATIVE MEDALLION INLAY SCHEDULE	
STATION	OFFSET
12+41.5	47.6' LT
12+56.8	40.7' LT
12+53.0	45.1' RT
13+05.6	50.5' RT
13+27.1	26.1' RT
13+42.0	24.5' LT
13+15.8	41.2' LT

WASTE/RECYCLE RECEPTACLE SCHEDULE	
STATION	OFFSET
13+19.4	17.2' RT
13+21.6	16.5' RT

PLANTER SCHEDULE	
STATION	OFFSET
12+25.9	21.5' LT
12+22.6	21.3' LT
13+22.9	17.1' LT
12+98.3	51.3' RT
12+65.2	46.9' RT
12+64.8	50.8' RT

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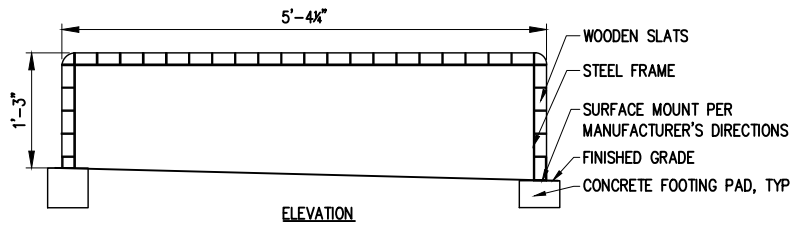
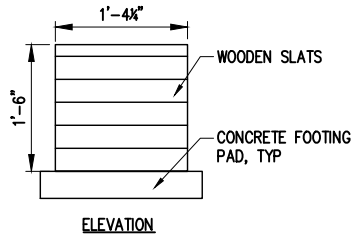
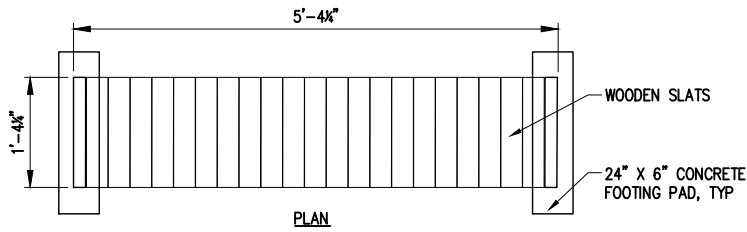
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URBAN DESIGN PLAN

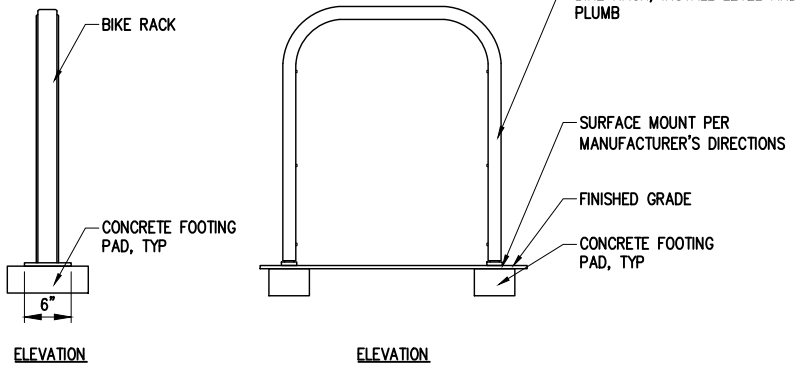
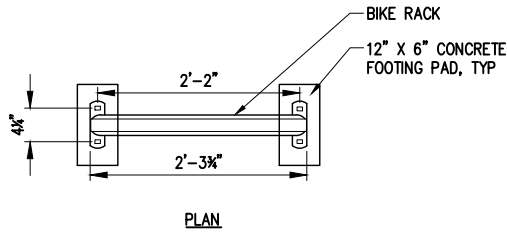
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SHEET
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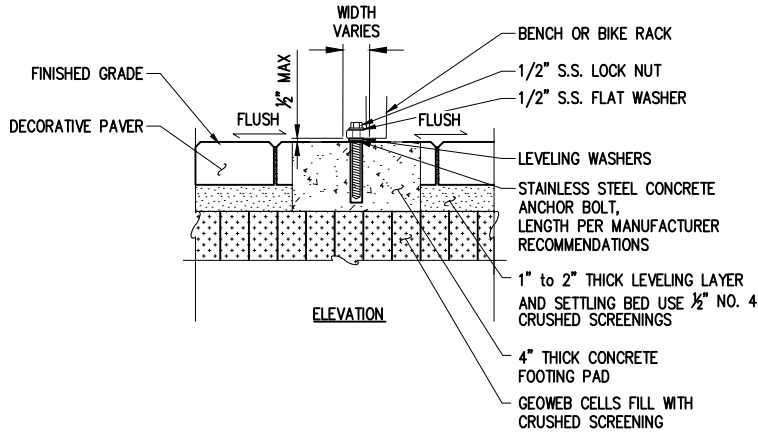
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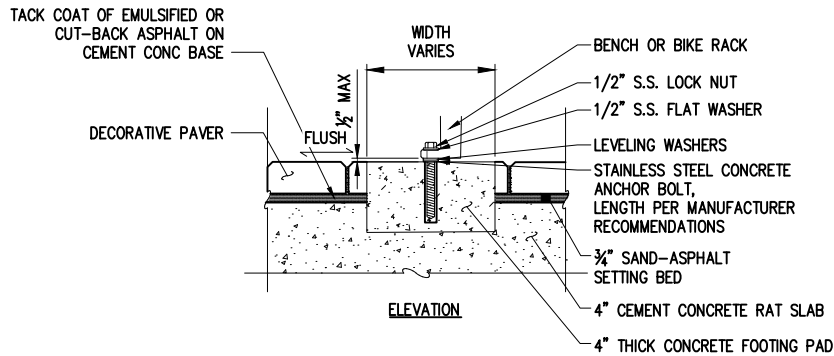
STANDARD BENCH DETAIL
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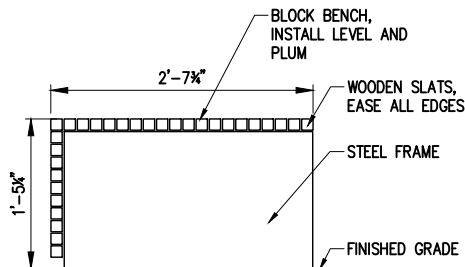
BIKE RACK DETAIL
NTS



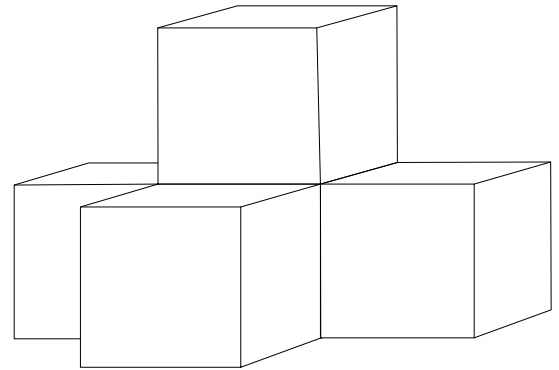
SURFACE MOUNT INSTALLATION ON CONCRETE FOOTING PAD OVER POLYETHYLENE WEBBING DETAIL
NTS



SURFACE MOUNT INSTALLATION ON CONCRETE FOOTING PAD AND CONCRETE RAT SLAB
NTS

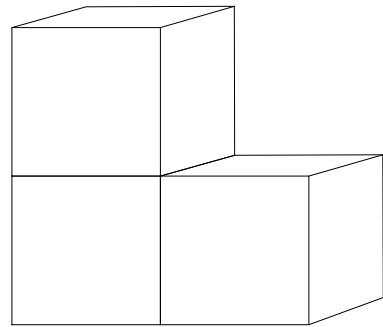


ELEVATION SIDE B



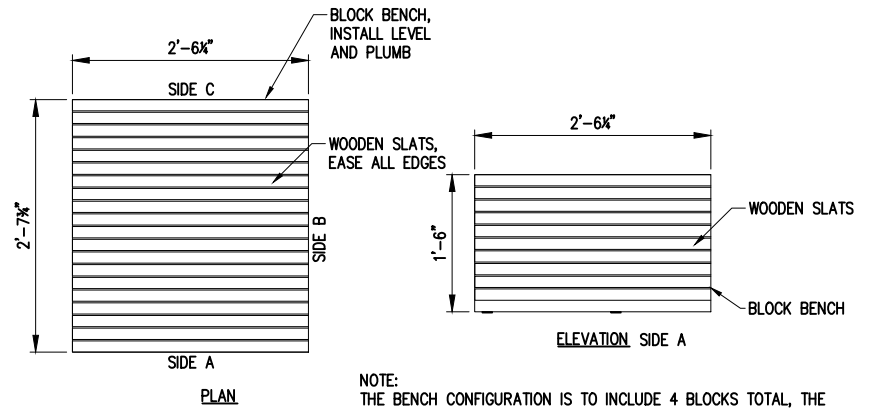
5 BLOCK BENCH UNITS (4 AT BASE AND ONE AT TOP).

ISOMETRIC



3 BLOCK BENCH UNITS (2 AT BASE AND ONE AT TOP).

ISOMETRIC



NOTE:
THE BENCH CONFIGURATION IS TO INCLUDE 4 BLOCKS TOTAL, THE MIDDLE BLOCK BEING (2) BLOCKS STACKED ON ANOTHER. SEE MANUFACTURERS SPECIFICATION FOR ATTACHING AND STACKING THE BLOCK BENCH.

BLOCK BENCH DETAIL
NTS

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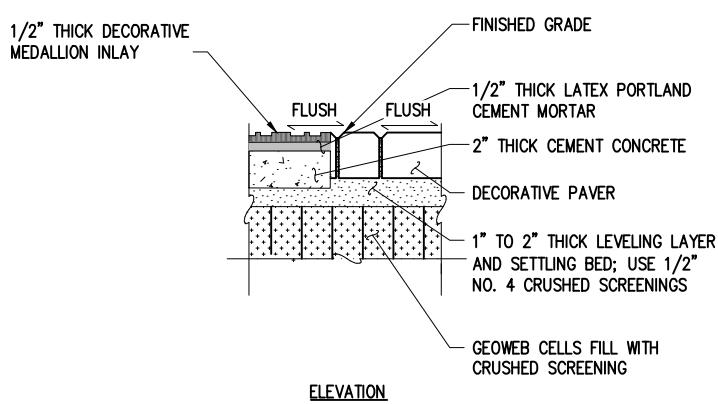
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PEDESTRIAN IMPROVEMENTS**

URBAN DESIGN DETAILS

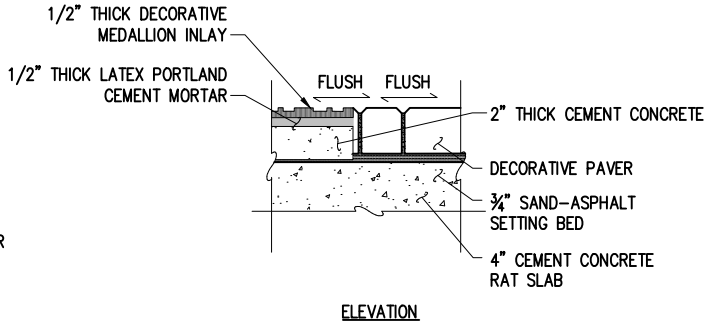
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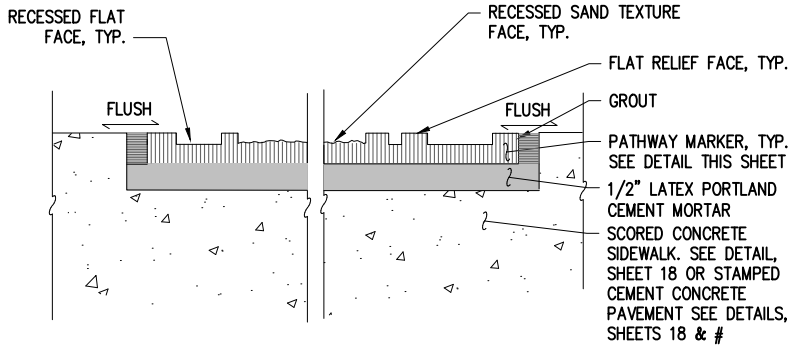
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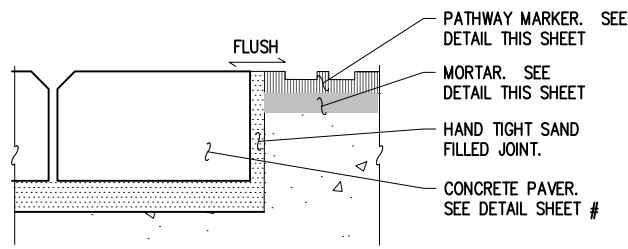
DECORATIVE MEDALLION INLAY OVER POLYETHYLENE WEBBING DETAIL
NTS



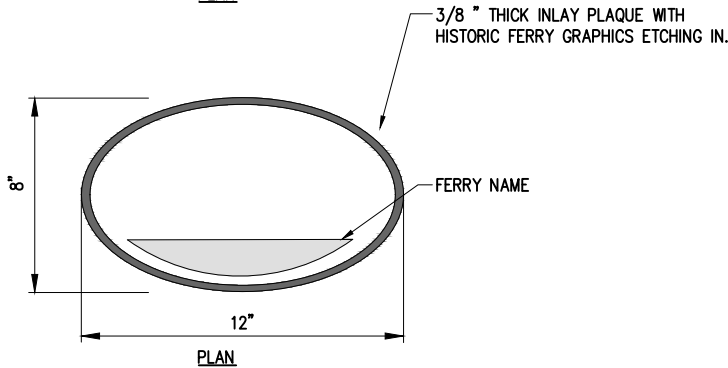
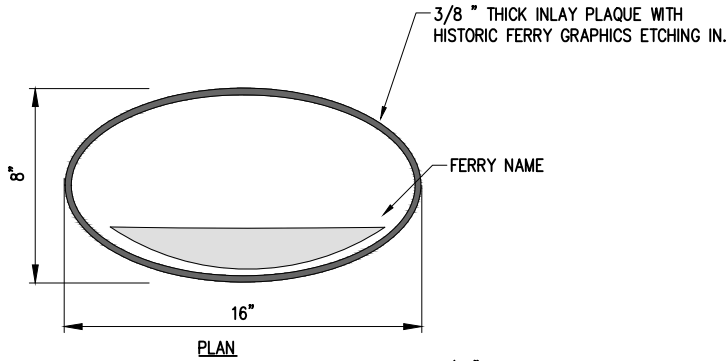
DECORATIVE MEDALLION INLAY OVER CONCRETE RAT SLAB DETAIL
NTS



SECTION AT SCORED CONCRETE SIDEWALK



SECTION AT CONCRETE PAVERS



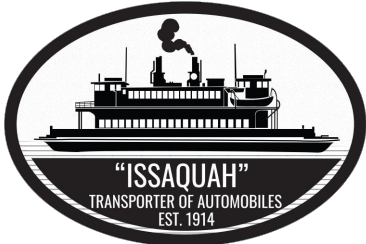
DECORATIVE MEDALLION INLAY DETAIL
NTS



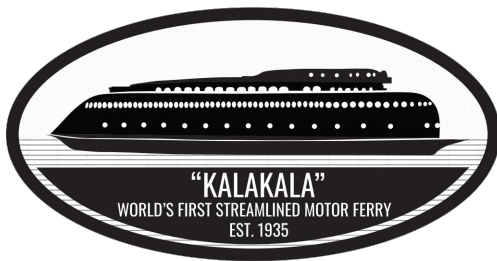
TYPE **A** LAYOUT



TYPE **B** LAYOUT



TYPE **C** LAYOUT



TYPE **D** LAYOUT



TYPE **E** LAYOUT



TYPE **F** LAYOUT



TYPE **G** LAYOUT

DECORATIVE MEDALLION INLAY GRAPHICS
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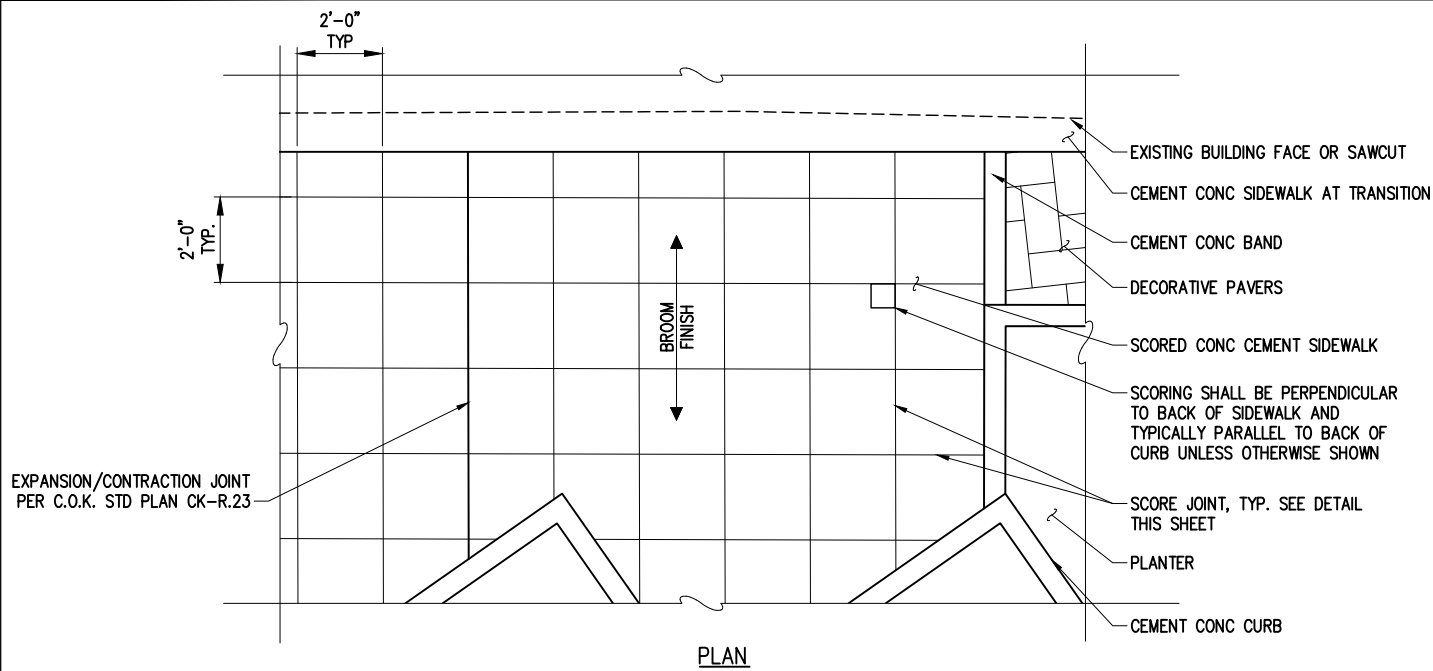
LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

URBAN DESIGN DETAILS

REFERENCE
SHEET NO.

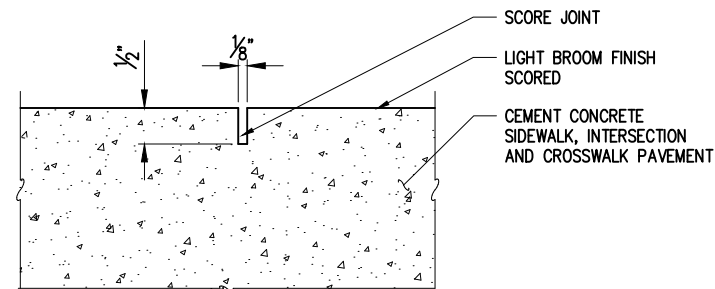
SHEET
17
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37
SHEETS

December 4, 2023 - 5:42 PM - MARIANA.REYNA - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROV\DESIGN\DRAWINGS\CONTRACT\20045\URB_DET01.DWG - Layout Name: URBAN DESIGN DETAILS



PLAN

SCORED CEMENT CONCRETE SIDEWALK DETAIL
NTS



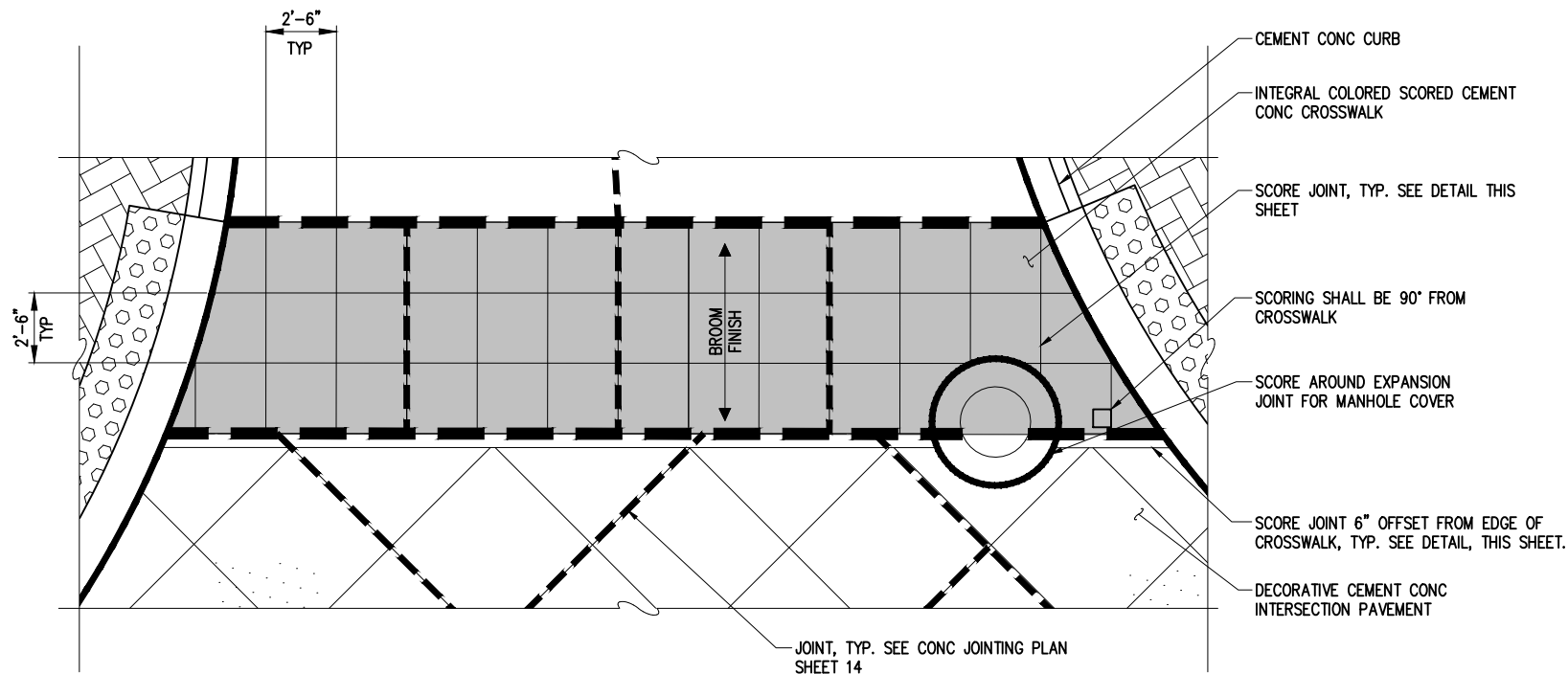
NOTE: SCORING SHALL BE INSTALLED TO PRODUCE A SAWCUT JOINT. NO RADIUS AND NO SMOOTH FLANGE ON EITHER SIDE OF JOINT.

SECTION

SCORE JOINT DETAIL
NTS

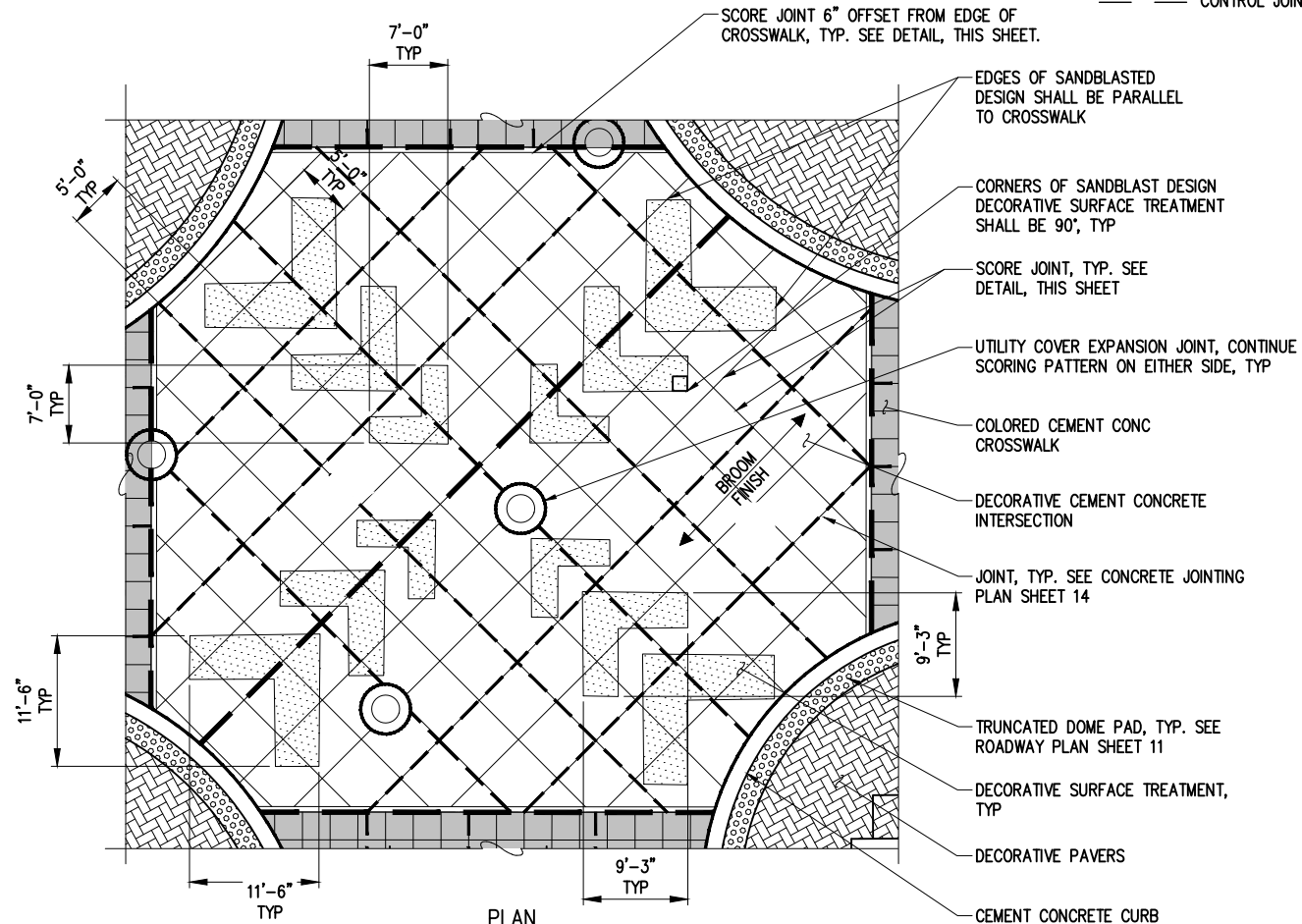
LEGEND

- SCORE JOINT
- CONTROL JOINT



PLAN

COLORED CEMENT CONCRETE CROSSWALK PAVEMENT DETAIL
NTS



PLAN

NOTE: SANDBLASTED DESIGN LAYOUT SHALL BE FIELD VERIFIED BY ENGINEER PRIOR TO INSTALLATION.

DECORATIVE CEMENT CONCRETE INTERSECTION PAVEMENT DETAIL
NTS



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**LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS**

URBAN DESIGN DETAILS

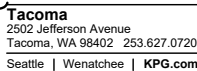
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SHEET NO.

SHEET
18
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37
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DESIGNED BY: 4/2023
CS

DRAWN BY: JS 4/2023

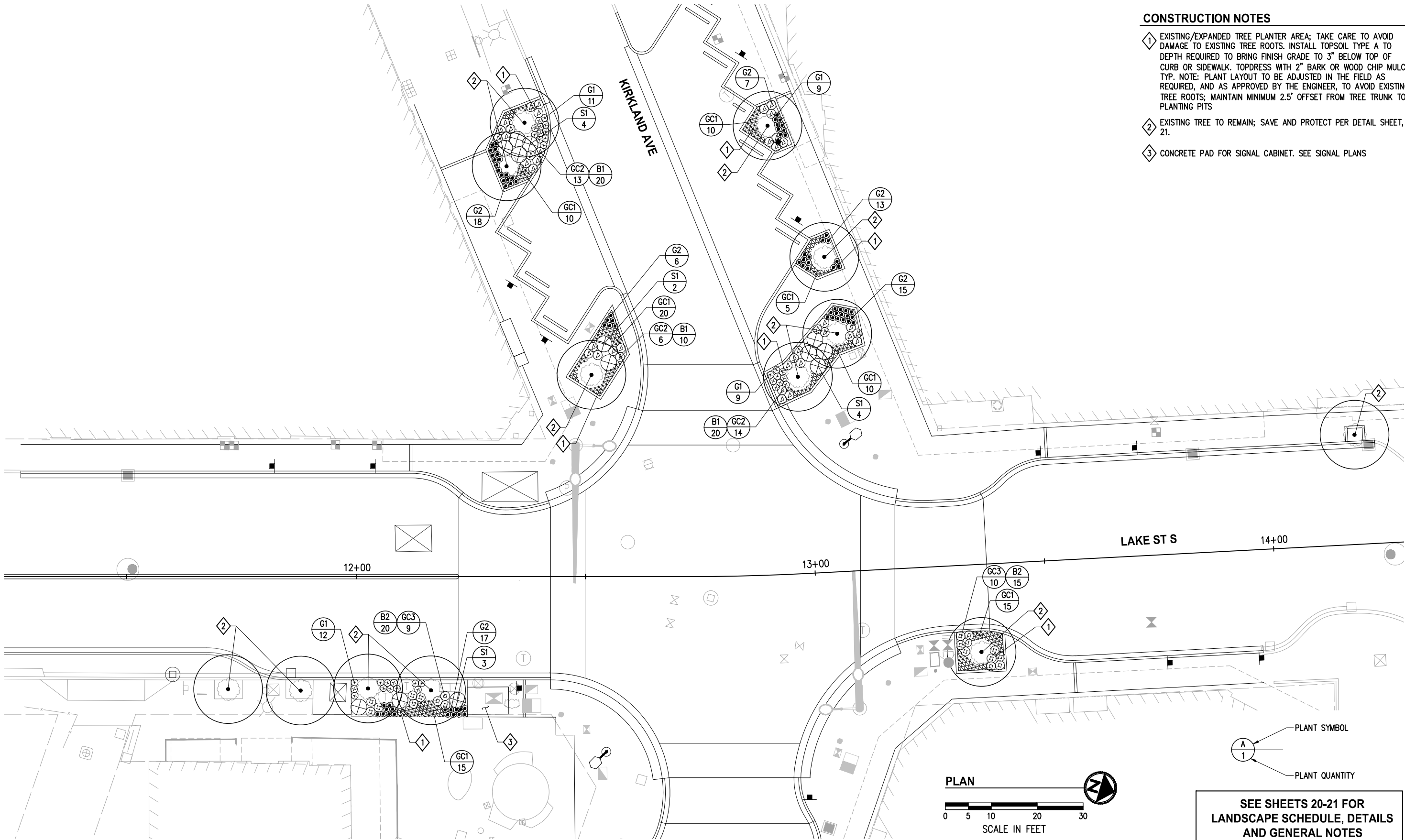
The logo of the City of Kirkland, Washington, is a circular emblem. It features a stylized illustration of a sailboat on the water in the foreground, with a bridge and a building in the background. The words "CITY OF KIRKLAND" are written in a semi-circle at the top, and "WASHINGTON" is written in a semi-circle at the bottom.

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LANDSCAPE PLAN

SHEET
19
OF
37
SHEETS

- 1 EXISTING/EXPANDED TREE PLANTER AREA; TAKE CARE TO AVOID DAMAGE TO EXISTING TREE ROOTS. INSTALL TOPSOIL TYPE A TO DEPTH REQUIRED TO BRING FINISH GRADE TO 3" BELOW TOP OF CURB OR SIDEWALK. TOPDRESS WITH 2" BARK OR WOOD CHIP MULCH, TYP. NOTE: PLANT LAYOUT TO BE ADJUSTED IN THE FIELD AS REQUIRED, AND AS APPROVED BY THE ENGINEER, TO AVOID EXISTING TREE ROOTS; MAINTAIN MINIMUM 2.5' OFFSET FROM TREE TRUNK TO PLANTING PITS
- 2 EXISTING TREE TO REMAIN; SAVE AND PROTECT PER DETAIL SHEET, 21.
- 3 CONCRETE PAD FOR SIGNAL CABINET. SEE SIGNAL PLANS



**SEE SHEETS 20-21 FOR
LANDSCAPE SCHEDULE, DETAILS
AND GENERAL NOTES**

December 4, 2023 - 5:43 PM - DAREK GOCH - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\CONTRACT\20045\LPN_DET01.DWG - Layout Name: LANDSCAPE SCHEDULE & DETAILS

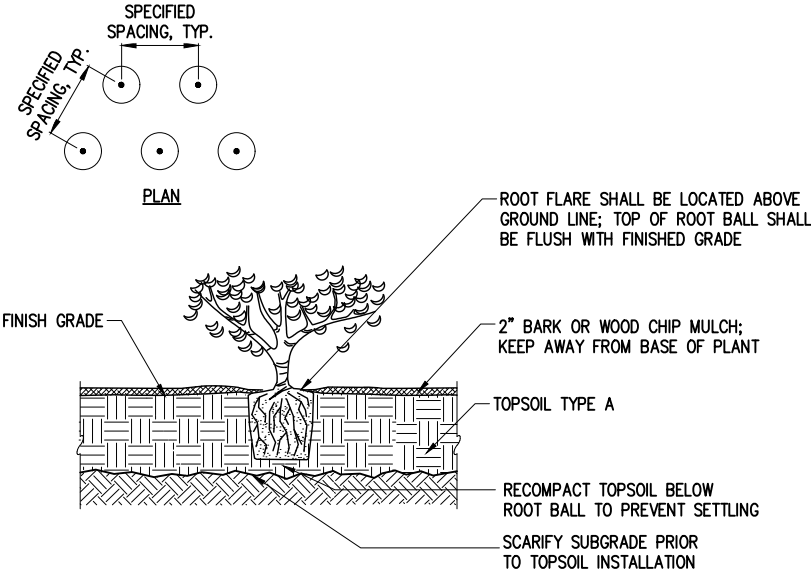
PLANT SCHEDULE

SYMBOL		BOTANICAL NAME/COMMON NAME	QTY	SIZE	REMARKS
SHRUBS, GRASSES, AND GROUNDCOVERS					
	S1	SARCOCOCCA HOOKERIANA VAR. HUMILIS / DWARF HIMALAYAN SWEETBOX	13	1 GAL. CONT.	42" O.C. TRI. SP. TYP.
	GC1	EPIMEDIUM X PERRALCHICUM 'FROHNLEITEN' / BARRENWORT	85	QUART CONT.	18" O.C. TRI. SP. TYP.
	GC2	HELLEBORUS 'ANNA'S RED' / ANNA'S RED HELLEBORE*	40	1 GAL. CONT.	24" O.C. TRI. SP. TYP.
	GC3	HEMEROCALLIS X 'STELLA DE ORO' / STELLA DE ORO DWARF DAYLILY**	19	1 GAL. CONT.	24" O.C. TRI. SP. TYP.
	G1	LIRIOPE MUSCARI 'BIG BLUE' / BIG BLUE LILYTURF	32	QUART CONT.	18" O.C. TRI. SP. TYP.
	G2	ACORUS GRAMINEUS 'OGON' / GOLDEN VARIEGATED SWEET FLAG	78	QUART CONT.	15" O.C. TRI. SP. TYP.
	B1	GALANTHUS NIVALIS / SNOWDROPS*	50	BULB	8" O.C. TRI. SP. TYP.
	B2	CROCUS 'BLUE PEARL' / SNOW CROCUS**	35	BULB	8" O.C. TRI. SP. TYP.

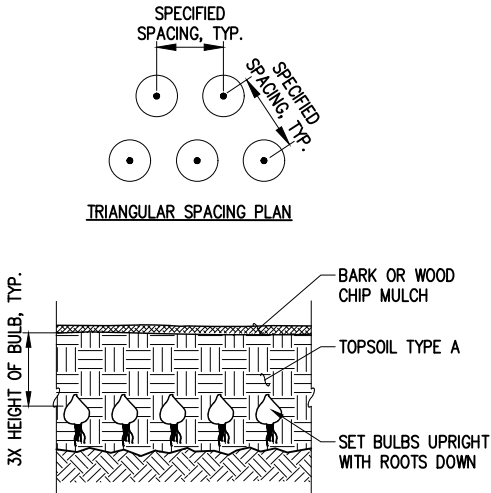
*UNDER-PLANT HELLEBORUS WITH GALANTHUS NIVALIS
**UNDER-PLANT HEMEROCALLIS WITH CROCUS

GENERAL NOTES

- ALL PLANT MATERIALS SHALL MEET THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 MOST CURRENT VERSION.
- PLANT, MAINTAIN AND WARRANTY AS PER SPECIAL PROVISIONS.
- DO NOT SUBSTITUTE SPECIES WITHOUT THE APPROVAL OF ENGINEER.
- INSTALL 2" BARK OR WOOD CHIP MULCH OVER ALL DISTURBED AREAS NOT BEING PLANTED OR SEEDED, UNLESS OTHERWISE NOTED. FEATHER MULCH TO EDGE OF PAVEMENT OR BACK OF CURB.
- PROPERTY RESTORATION TO BE DONE AS DIRECTED BY THE PROJECT ENGINEER.



TYPICAL SHRUB/GROUNDCOVER PLANTING DETAIL
NTS



TYPICAL BULB PLANTING DETAIL
NTS

DATE	NO.	REVISION	BY		



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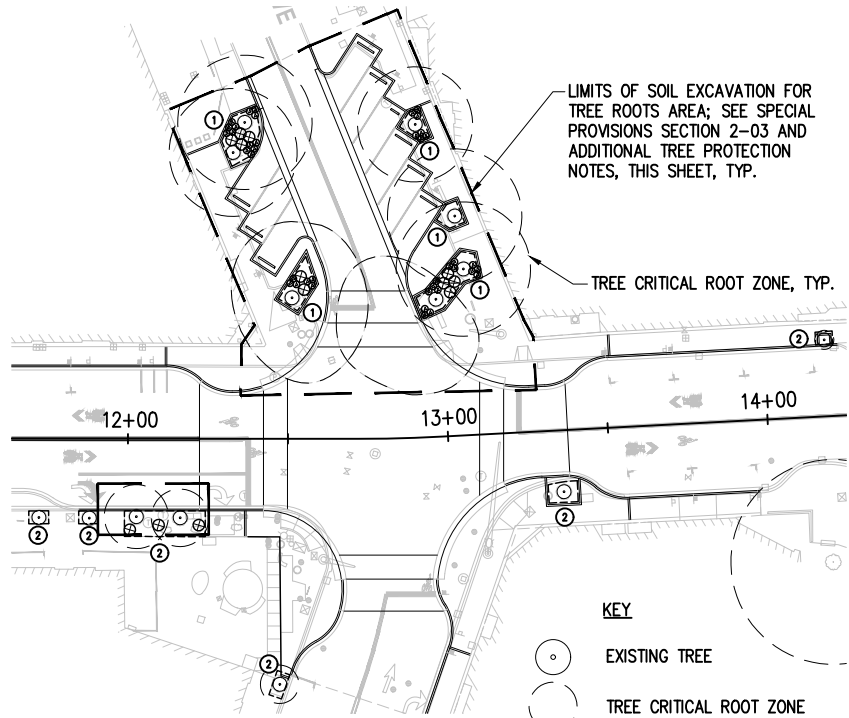


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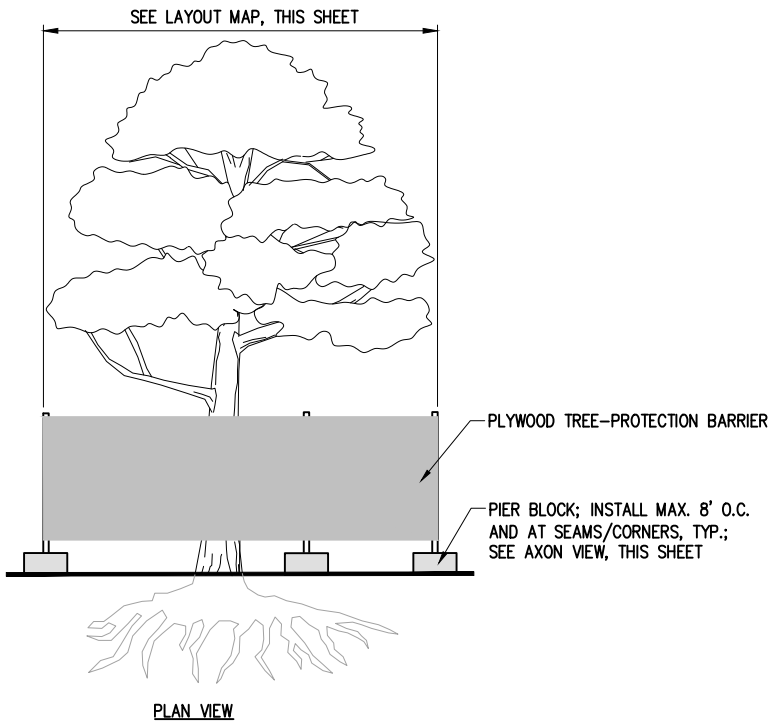
LANDSCAPE SCHEDULE
& DETAILS

REFERENCE SHEET NO.
SHEET 20 OF 37 SHEETS

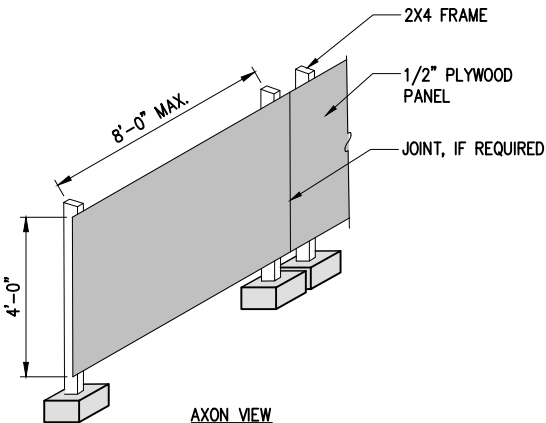
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TREE-PROTECTION BARRIER LAYOUT MAP

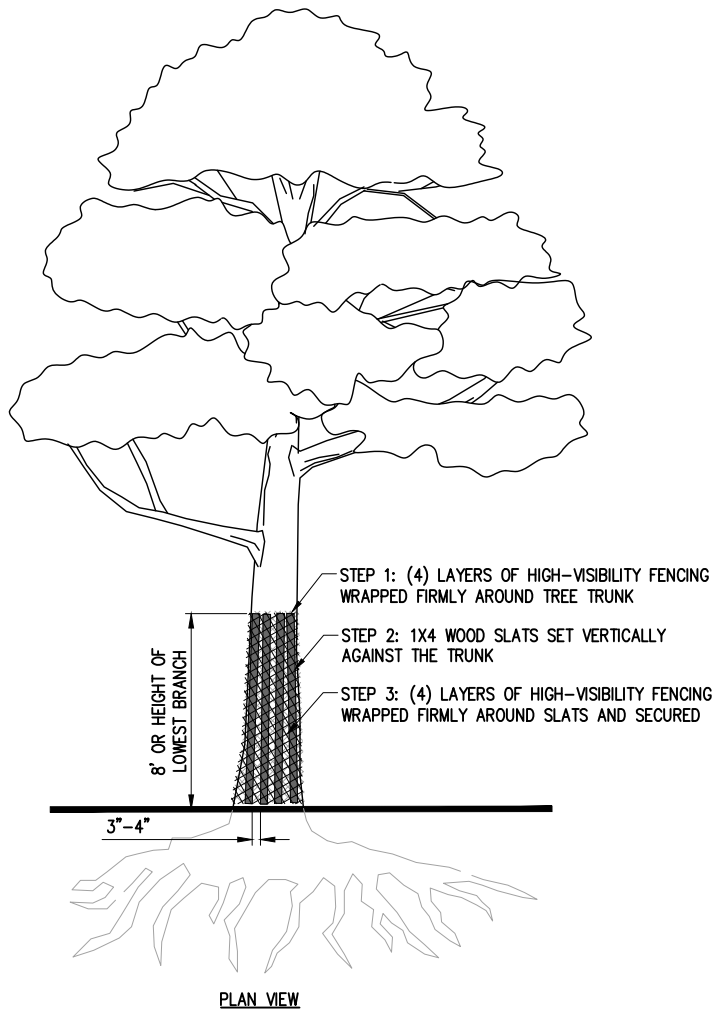


PLAN VIEW



AXON VIEW

TREE-PROTECTION BARRIER DETAIL
NTS



PLAN VIEW

TRUNK-PROTECTION DETAIL
NTS

TREE PROTECTION GENERAL NOTES

1. ALL TREES TO REMAIN SHALL BE TAGGED FOR APPROVAL BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
2. PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, TREE-PROTECTION BARRIER SHALL BE INSTALLED WHERE SHOWN IN THE LAYOUT MAP, THIS SHEET. LAYOUT OF TREE PROTECTION FENCING SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. SEE ADDITIONAL REQUIREMENTS FOR EXISTING TREES WITHIN LIMITS OF SOIL EXCAVATION FOR TREE ROOTS AREA, THIS SHEET.
3. TREE-PROTECTION BARRIER SHALL CONSIST OF 1/2" PLYWOOD INSTALLED ON A 2X4 FRAME ANCHORED TO PIER BLOCKS, AS DETAILED, THIS SHEET. DO NOT DRIVE POSTS OR STAKES INTO THE GROUND. DO NOT BLOCK PEDESTRIAN ACCESS ROUTE.
4. MULCH ENTIRE AREA WITHIN TREE-PROTECTION BARRIER LIMITS WITH 6" DEPTH ARBORIST WOOD CHIP MULCH. MULCH SHALL REMAIN IN PLACE UNTIL PLANTER AREA IS BACKFILLED WITH TOPSOIL AND TREE ROOTS ARE COVERED.
5. TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER 1" IN DIAMETER DAMAGED DURING CONSTRUCTION; MAKE A CLEAN, STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. FOR ROOTS OVER 2" DIAMETER, SEE SPECIAL PROVISIONS, SECTION 2-03. ALL ROOTS TEMPORARILY EXPOSED DURING CONSTRUCTION SHALL BE COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND COVERED WITH SOIL AS SOON AS POSSIBLE.
6. WORK WITHIN TREE-PROTECTION BARRIER SHALL BE DONE MANUALLY. NO STOCKPILE OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMITS OF THE BARRIER.
7. MAINTAIN TREE-PROTECTION BARRIER IN PLACE UNTIL THE CITY AUTHORIZES REMOVAL OR A FINAL APPROVAL IS ISSUED.
8. SIGNS SHALL BE ATTACHED TO THE TREE-PROTECTION BARRIER STATING THAT THE TREE IS DESIGNATED FOR PROTECTION AND THE AREA INSIDE OF THE BARRIER IS NOT TO BE DISTURBED UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER.

ADDITIONAL TREE PROTECTION NOTES WITHIN
SOIL EXCAVATION FOR TREE ROOTS AREA

1. FOR ALL EXISTING TREES WITHIN LIMITS OF SOIL EXCAVATION FOR TREE ROOTS AREA, THE FOLLOWING ADDITIONAL PROTECTION MEASURES SHALL APPLY.
2. PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, TRUNK PROTECTION SHALL BE INSTALLED AND SHALL REMAIN IN PLACE UNTIL PAVEMENT REMOVAL AND EXCAVATION ACTIVITIES HAVE BEEN COMPLETED. TRUNK PROTECTION SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
3. TRUNK PROTECTION SHALL CONSIST OF A MINIMUM OF FOUR LAYERS OF HIGH-VISIBILITY FENCE, WRAPPED FIRMLY AROUND THE TRUNK TO A HEIGHT OF 8' OR TO THE LOWEST BRANCH IF (WHICHEVER IS LOWER), THEN A LAYER OF 1X4X8' WOOD SLATS SET VERTICALLY AGAINST THE TRUNK AT 3"-4" INTERVALS, THEN AN ADDITIONAL FOUR LAYERS OF HIGH-VISIBILITY FENCING WRAPPED FIRMLY AROUND THE WOOD SLATS AND SECURED TO HOLD THEM IN PLACE.
4. FOLLOWING COMPLETION OF PAVEMENT REMOVAL AND EXCAVATION ACTIVITIES, TRUNK PROTECTION SHALL BE REMOVED AND TREE-PROTECTION BARRIER SHALL BE INSTALLED WHERE SHOWN IN THE LAYOUT MAP, THIS SHEET, AND SHALL REMAIN IN PLACE FOR THE REMAINING DURATION OF CONSTRUCTION ACTIVITIES. SEE TREE PROTECTION GENERAL NOTES, THIS SHEET.

DATE	NO.	REVISION	BY		



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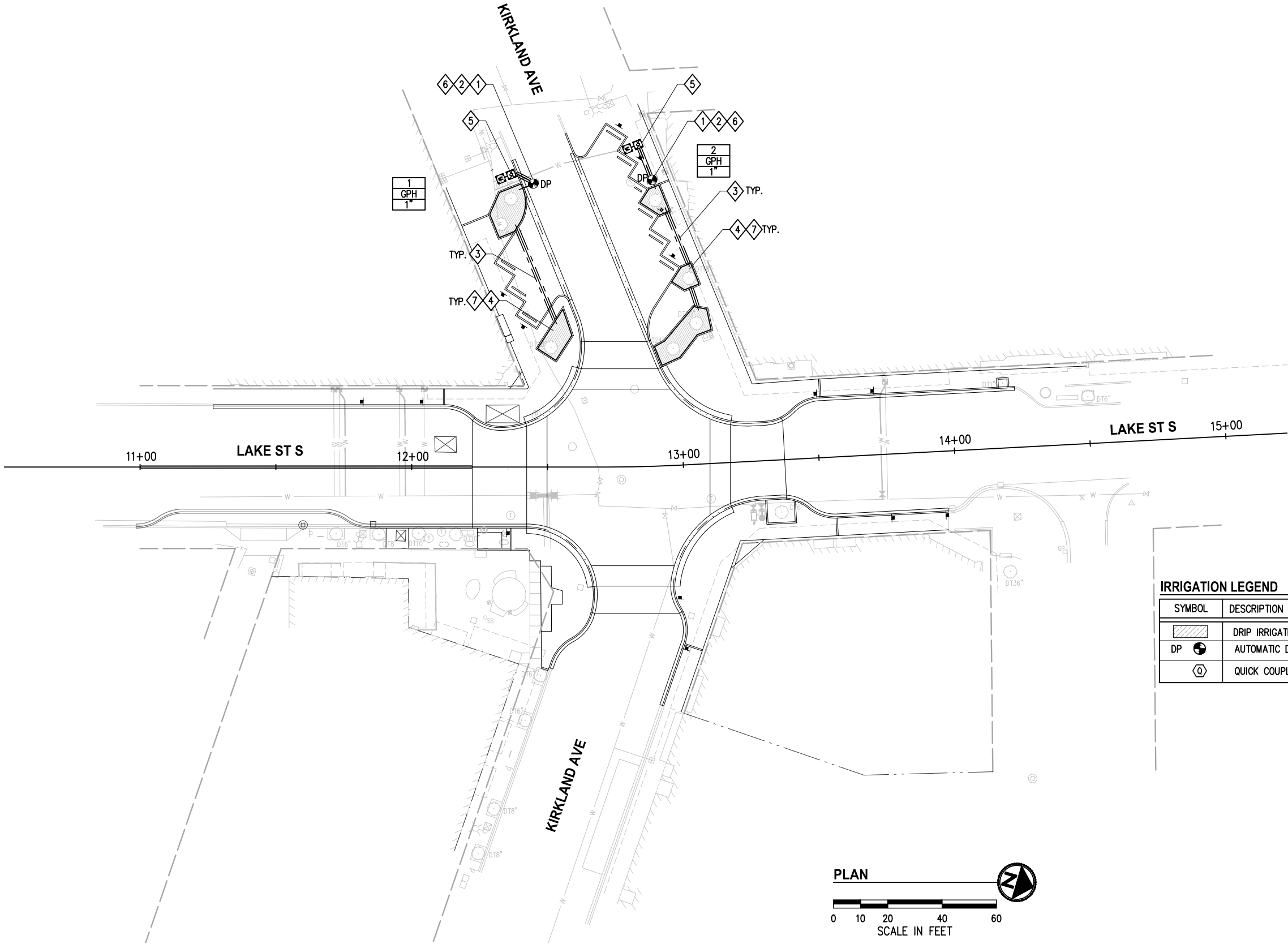
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TREE PROTECTION DETAILS

REFERENCE SHEET NO.
SHEET 21 OF 37 SHEETS

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CONSTRUCTION NOTES

- 1 MAINLINES AND LATERAL LINES TO BE LOCATED IN PLANTERS WHERE POSSIBLE, LOCATION SHOWN IS DIAGRAMMATIC. ALL IRRIGATION LINES LOCATED UNDER PAVEMENT SHALL BE SLEEVED PER GENERAL NOTES SHEET 23 AND PER SPECIAL PROVISIONS. THE CONTRACTOR SHALL COORDINATE ALL SLEEVING LOCATIONS AND INSTALL PRIOR TO ALL ROADWAY AND SIDEWALK PAVING INSTALLATION
- 2 INSTALL DRIP ZONE CONTROL VALVE KIT WITH DC LATCHING SOLENOID AND VALVE BOX IN PLANTER AREA, TIGHT TO EDGE OF PLANTER OR BACK OF SIDEWALK TO MAXIMIZE PLANTING AREA LOCATION SHOWN IS DIAGRAMMATIC. CONTRACTOR TO PROVIDE GPM FOR EACH VALVE BASED ON THE PROPOSED DRIPLINE LAYOUT PLAN. SIZE VALVE BOX TO ACCOMMODATE VALVES AND ASSOCIATED DRIP EQUIPMENT
- 3 COORDINATE INSTALLATION OF IRRIGATION PIPING AND SLEEVING WITH UTILITY, LUMINAIRE AND PAVEMENT INSTALLATION
- 4 PROVIDE FULLY FUNCTIONING DRIP SYSTEM PER DETAIL SHEETS 23-24. SUBMIT PROPOSED LAYOUT PLAN FOR DRIP LINES AND EQUIPMENT LOCATION PRIOR TO INSTALLATION FOR APPROVAL BY ENGINEER
- 5 INSTALL IRRIGATION METER(S) AND POINT OF CONNECTION EQUIPMENT. SEE WATER SHEET 10 FOR METER LOCATION
- 6 INSTALL (2) HUNTER NODE BT 100 (1 STATION BATTERY POWERED CONTROLLER) IN CONTROL BOX, SIZED TO ACCOMMODATE
- 7 WORK DONE WITHIN TREE CANOPY/ROOT AREA SHALL BE DONE UNDER THE SUPERVISION OF THE ENGINEER AND/OR CITY ARBORIST. ALL PIPE TRENCHING WITHIN TREE CANOPY SHALL BE BY HAND, UNLESS OTHERWISE DIRECTED BY THE ENGINEER, CITY ARBORIST, OR OTHER DESIGNEE.

IRRIGATION LEGEND

SYMBOL	DESCRIPTION
	DRIP IRRIGATION AREA
DP	AUTOMATIC DRIP CONTROL VALVE
Q	QUICK COUPLING VALVE (LOCATION TBD)

PIPE SIZE CHART

GPM	SIZE
0 - 8	3/4"
8 - 15	1"
15 - 22	1 1/4"
22 - 35	1 1/2"
35 - 55	2"

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

1	INDICATES VALVE #
GPH	GALLONS PER HOUR TBD BY CONTRACTOR
1"	INDICATES VALVE SIZE

SEE SHEET 23 & 24 FOR IRRIGATION SCHEDULE, DETAILS AND GENERAL NOTES.

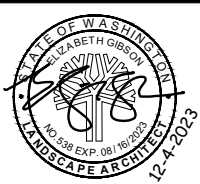
PLAN



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










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IRRIGATION PLAN

REFERENCE SHEET NO.
SHEET 22 OF 37 SHEETS

December 4, 2023 - 5:43 PM - KIRKLAND20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\CONTRACT\20045\IRR_DET01.DWG - Layout Name: IRRIGATION SCHEDULE & DETAILS

IRRIGATION LEGEND			
SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION
		SUBSURFACE EMITTER TUBING (0.6GPH, 18" EMITTER SPACING)	PRESSURE COMPENSATING AND CONTINUOUS SELF FLUSHING DRIPLINE WITH LINE-FLUSHING VALVE AT LOW POINTS OF EACH ZONE AND AT END OF EACH ZONE. TUBING SHALL BE LOCATED BELOW MULCH LAYER, SEE LANDSCAPE SHEETS FOR PLANTING SECTION.
 DP	HUNTER	HUNTER PCZ-101-25-B	1" DRIP CONTROL KIT WITH CONTROL VALVE, PRESSURE REGULATING FILTER AND PVC BALL VALVE. INSTALL WITH HUNTER NODE BT 100 BATTERY POWERED CONTROLLER AND DC LATCHING SOLENOID.
	RAINBIRD	44DLRC	1" BRASS QUICK COUPLER VALVE WITH LOCKING VINYL COVER.
			(2) 5/8" IRRIGATION METER. SEE CIVIL PLANS SHEET 10.
	FEBCO	850	(2) 1" DOUBLE CHECK VALVE ASSEMBLY, INSTALL PER DETAIL THIS SHEET.
			PVC SCH 40, IRRIGATION MAIN LINE - 24" MIN COVER - SIZE AS NOTED ON PLAN.
			PVC SCH 40, LATERAL SUPPLY LINE- 18" MIN COVER - SIZE AS NOTED ON PLAN.
			SLEEVING, PVC SCHEDULE 40, SIZE TWICE INSERT PIPE DIA
	INDICATES VALVE #		
	INDICATES APPROX. GPH		
	INDICATES VALVE SIZE		

- 1 HUNTER REMOTE CONTROL VALVE (PCZ) WITH FILTER REGULATOR. PROVIDE DC LATCHING SOLENOID FOR BATTERY OPERATED CONTROLLER

2 IRRIGATION VALVE BOX

3 WATERPROOF CONNECTORS (2)

4 COILED WIRE TO BATTERY OPERATED CONTROLLER

5 FINISH GRADE AT ADJACENT SURFACE (TURF OR MULCH)

6 SCH. 80 CLOSE NIPPLE, MATCH SIZE TO VALVE

7 PVC SLIP X FPT UNION
- 8 ISOLATION VALVE, SIZE AND TYPE PER PLAN

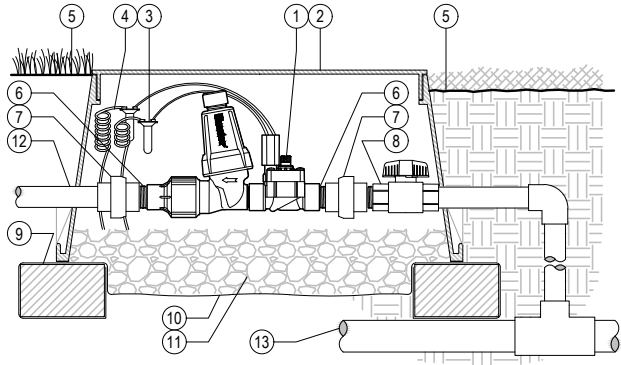
9 BRICK SUPPORTS (4)

10 FILTER FABRIC - WRAP TWICE AROUND BRICK SUPPORTS

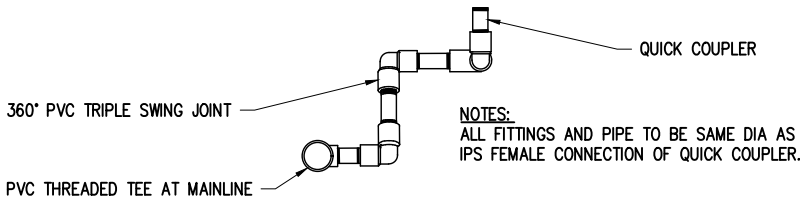
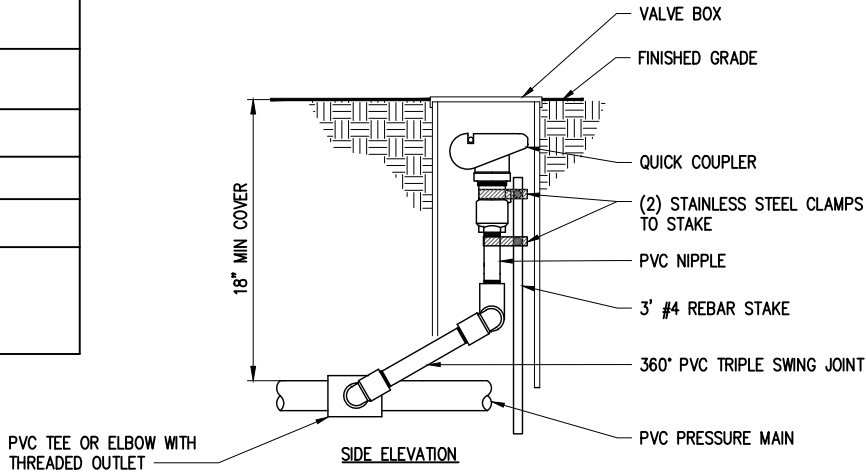
11 3/4" WASHED GRAVEL - 4" MIN. DEPTH

12 IRRIGATION LATERAL

13 MAINLINE LATERAL AND FITTINGS

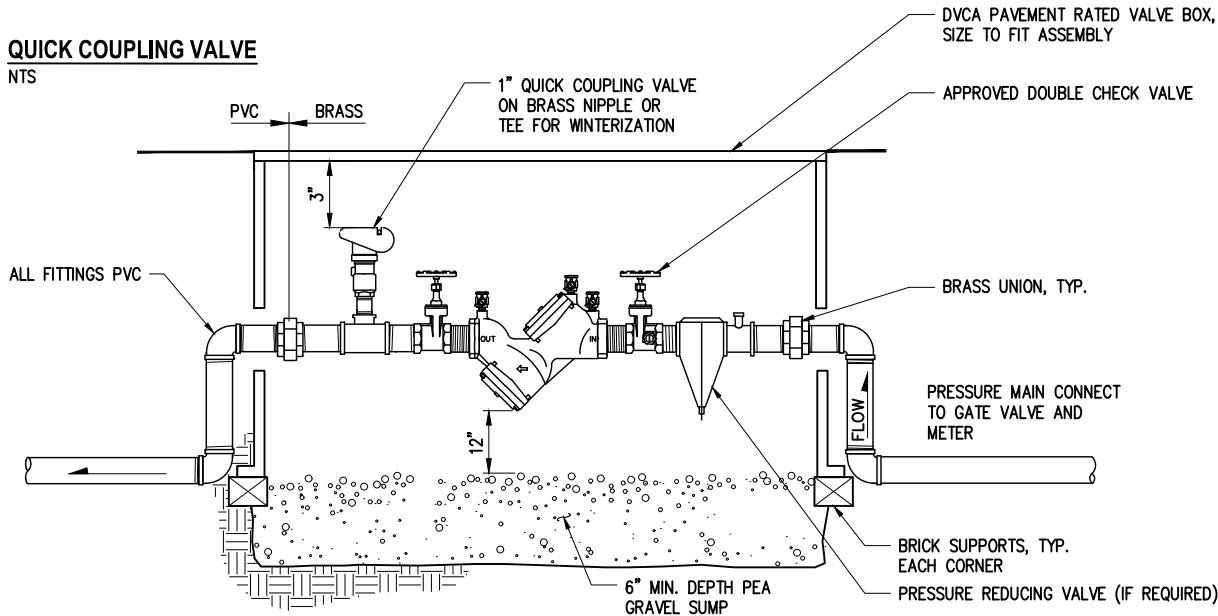


DRIP CONTROL VALVE DETAIL
NTS



SECTION THROUGH MAIN LINE

QUICK COUPLING VALVE
NTS



DOUBLE CHECK VALVE ASSEMBLY
NTS

NOTE:
INSTALL ASSEMBLY IN ACCORDANCE
WITH CURRENT CITY STANDARDS.

GENERAL NOTES

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

DATE	NO.	REVISION	BY		



UPI NO.:	FED. AID PROJ. NO.:
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HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: LG	DRAWN BY: JS
4/2023	4/2023



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PSOMAS**
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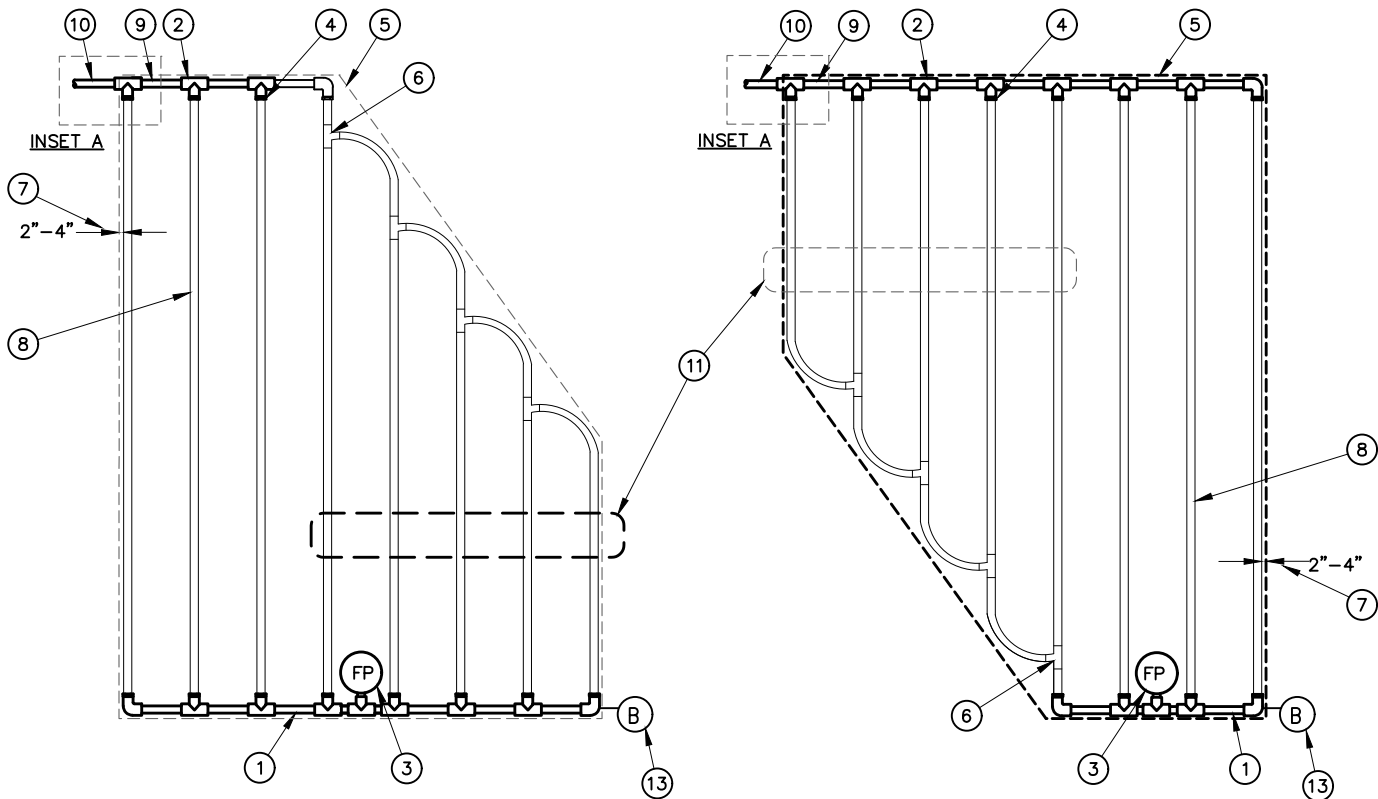
LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

IRRIGATION SCHEDULE & DETAILS

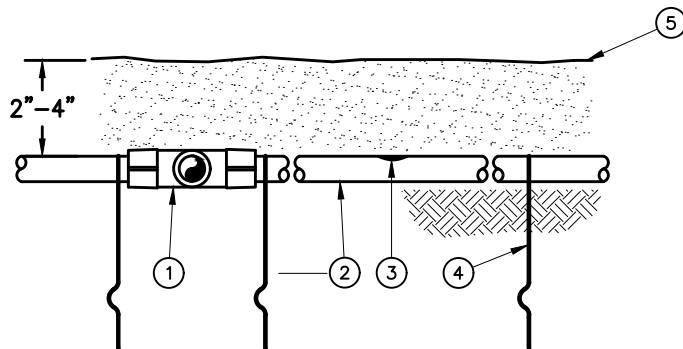
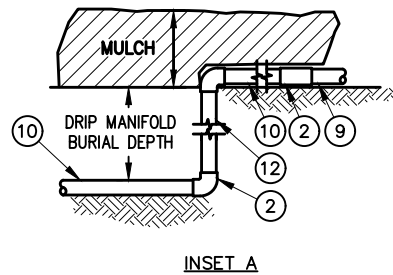
REFERENCE
SHEET NO.

SHEET
23
OF
37
SHEETS

December 4, 2023 - 5:43 PM - VONNIE - KIRKLAND20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS CONTRACT20045IRR_DET01.DWG - Layout Name: IRRIGATION DETAILS



DRIPLINE IRREGULAR SHAPE DETAIL TYP.
NTS



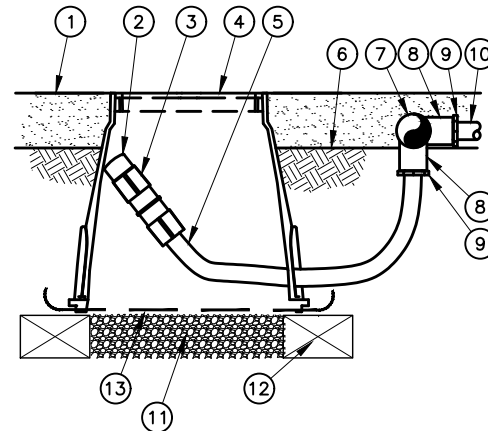
- NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
 2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

DRIPLINE AT GRADE DETAIL TYP.
NTS

- 1 EASY FIT COMPRESSION TEE:
- 2 ON-SURFACE DRIPLINE
- 3 INLINE DRIP EMITTER OUTLET
- 4 TIE DOWN STAKE
- 5 MULCH

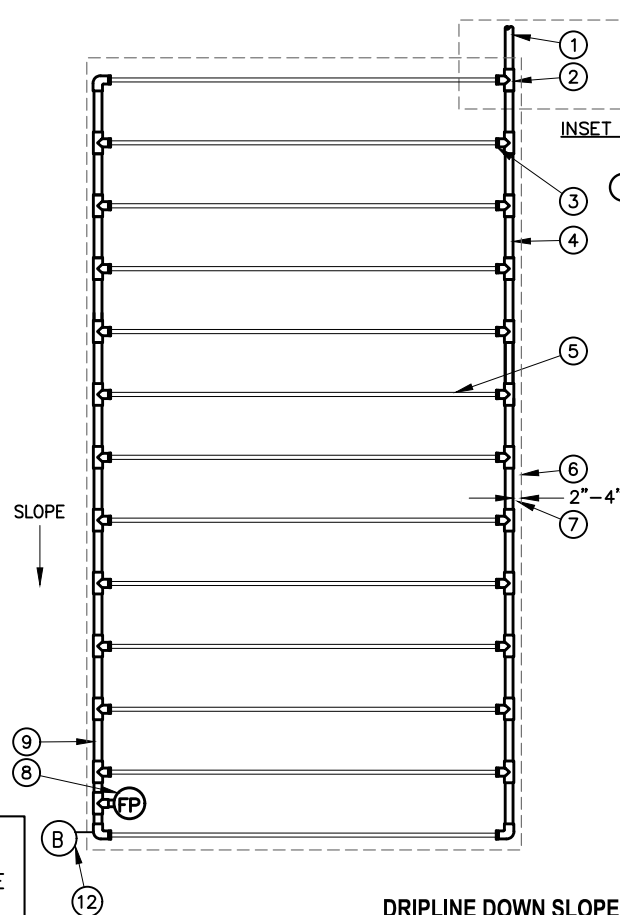
NOTE:
DRIP IRRIGATION DETAILS ARE PROVIDED FOR REFERENCE ONLY. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND EQUIPMENT SELECTED FOR DRIP IRRIGATION AREAS, AS APPROVED BY ENGINEER

- 1 PVC EXHAUST HEADER
- 2 PVC SCH 40 TEE OR EL (TYPICAL)
- 3 FLUSH POINT (TYPICAL)
- 4 BARB X MALE FITTING:
- 5 PERIMETER OF AREA
- 6 BARB X BARB INSERT TEE OR CROSS:
- 7 PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
- 8 ON-SURFACE DRIPLINE:
- 9 PVC SUPPLY MANIFOLD
- 10 PVC SUPPLY PIPE FROM CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
- 11 TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED MANUFACTURER'S RECOMMENDED LENGTH
- 12 PVC SCH 40 RISER PIPE
- 13 BALL VALVE FOR WINTERIZATION



NOTE:
1. ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

DRIPLINE FLUSH POINT DETAIL TYP.
NTS



- NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON MANUFACTURER'S WEB SITE FOR SUGGESTED SPACING.
 2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
 3. FOR SLOPES LESS THAN 3% (3' OF 100' / 0.9M OF 30.5M) DO NOT REQUIRE ANY SPECIAL DESIGN CONSIDERATION.
 4. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
 5. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
 6. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

DRIPLINE DOWN SLOPE DETAIL TYP.
NTS

- 1 MULCH
 - 2 FLUSH CAP FOR EASY FIT COMPRESSION FITTINGS:
 - 3 EASY FIT COUPLING:
 - 4 SUBTERRANEAN EMITTER BOX:
 - 5 BLANK TUBING
 - 6 FINISH GRADE OF TOPSOIL
 - 7 PVC EXHAUST HEADER
 - 8 PVC SCH 40 TEE OR EL
 - 9 BARB X MALE FITTING:
 - 10 ON-SURFACE DRIPLINE
 - 11 3-INCH MINIMUM DEPTH OF 3/4" WASHED GRAVEL
 - 12 BRICK (1 OF 2)
 - 13 GEOTEXTILE FABRIC
- 1 PVC SUPPLY PIPE FROM CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
 - 2 PVC SCH 40 TEE OR EL (TYPICAL)
 - 3 BARB X MALE FITTING:
 - 4 PVC SUPPLY MANIFOLD
 - 5 ON-SURFACE DRIPLINE
 - 6 PERIMETER OF AREA
 - 7 PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
 - 8 FLUSH POINT
 - 9 PVC FLUSH HEADER
 - 10 PVC RISER PIPE
 - 11 ROCK MULCH
 - 12 BALL VALVE FOR WINTERIZATION

DATE	NO.	REVISION	BY



UPI NO.:	
SURVEY NO.:	
HORZ. DATUM:	
WSPCS, N ZONE, NAD 83/11	
DESIGNED BY:	
LG	4/2023

FED. AID PROJ. NO.:	
FIELD BOOK(S):	
VERT. DATUM:	
NAVD 88	
DRAWN BY:	
JS	4/2023



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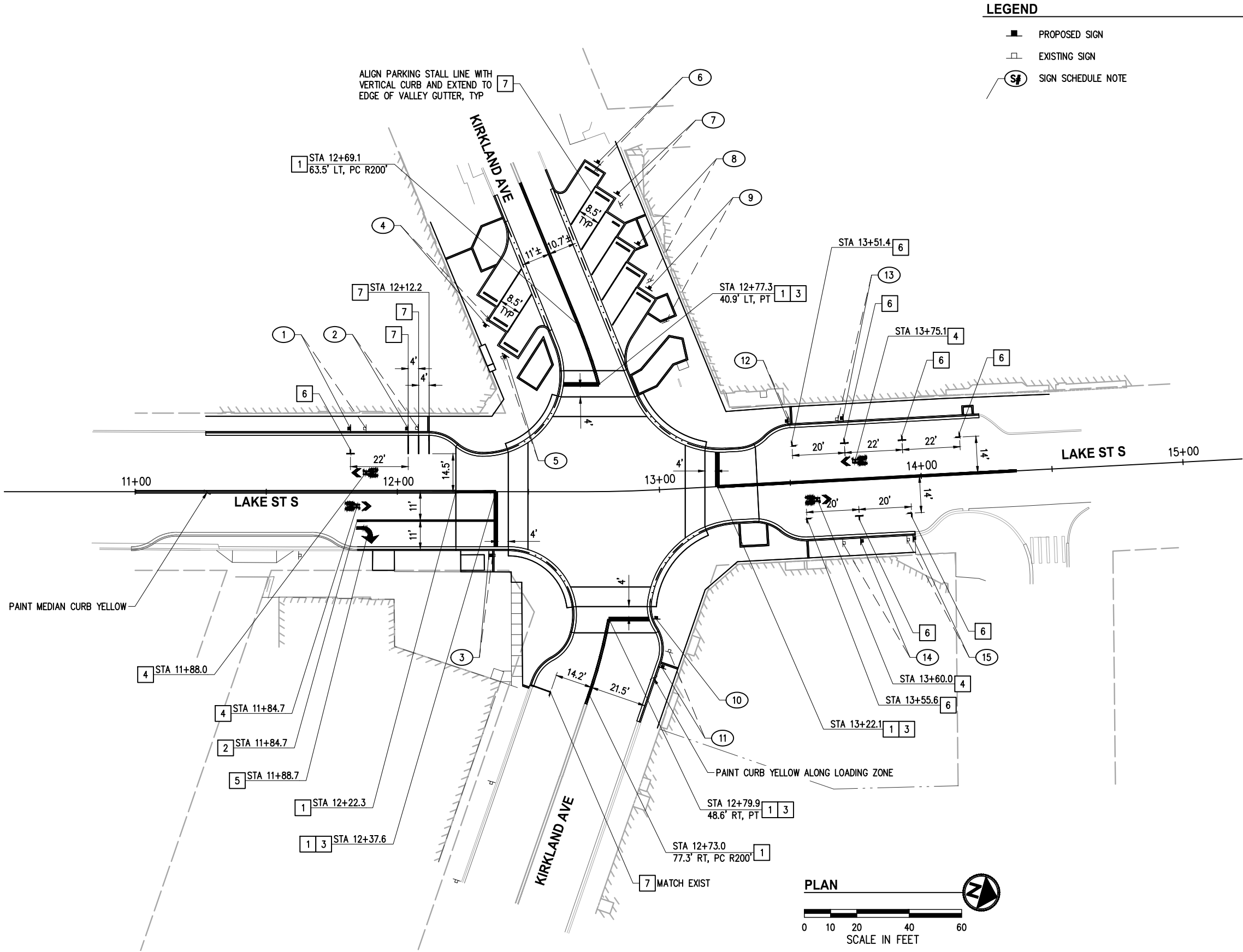
LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

IRRIGATION DETAILS

REFERENCE
SHEET NO.

SHEET
24
OF
37
SHEETS

December 4, 2023 - 5:44 PM - DAREK GOCH - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\DRAWINGS\CONTRACT\20045CHAN.DWG - Layout Name: CHANNELIZATION & SIGNING PLAN



LEGEND

- PROPOSED SIGN
- EXISTING SIGN
- S# SIGN SCHEDULE NOTE

GENERAL NOTES

- ALL EXISTING STRIPING, MARKINGS, AND SIGNS IN CONFLICT WITH THE IMPROVEMENTS SHALL BE REMOVED.
- CONTRACTOR SHALL PRESERVE AND PROTECT ALL SIGNS NOT SPECIFICALLY CALLED OUT FOR REMOVAL OR RELOCATION, UNLESS DIRECTED OTHERWISE BY ENGINEER.
- ALL SIGNAGE AND MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD.
- STA/OFF CALLOUTS ARE TO CENTER OF LINE.
- ARROWS AND SYMBOLS SHALL BE CENTERED IN LANE.
- ALL NEW AND RELOCATED SIGNS SHALL BE INSTALLED PER C.O.K. STD PLAN CK-R.43.
- SEE SIGNAL SHEETS 26-29 FOR ADDITIONAL SIGNING.

CONSTRUCTION NOTES

- TYPE D MMA DOUBLE YELLOW CENTERLINE PER C.O.K. STD PLAN CK-R.31
- TYPE D MMA 8" WHITE GORE STRIPE PER C.O.K. STD PLAN CK-R.31
- TYPE D MMA STOP BAR PER C.O.K. STD PLAN CK-R.28
- TYPE D MMA SHARED LANE MARKING PER C.O.K. STD PLAN CK-R.46
- TYPE D MMA TRAFFIC ARROW PER WSDOT STD PLAN M-24.40
- PARALLEL PARKING STALL MARKING PER DETAIL 6, SHEET 7
- TYPE D MMA 4" WHITE LINE

SIGN SCHEDULE

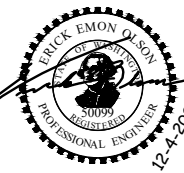
#	STATION	OFFSET	DESIGNATION	REMARKS
S1	11+82.2	24.1' LT	TAKE-OUT PARKING, CURBSIDE PICKUP*	NEW*
S2	12+04.2	24.1' LT	MOTORCYCLE PARKING	NEW
S3	12+35.0	24.3' RT	R3-7R	NEW
S4	12+33.8	63.9' LT	R7-108 "2 HR", NO BACK IN PARKING	NEW
S5	12+41.3	52.0' LT	R7-108 "30 MIN", NO BACK IN PARKING	NEW
S6	12+77.8	125.4' LT	R7-108 "30 MIN", NO BACK IN PARKING	NEW
S7	12+87.3	113.3' LT	R7-108 "2 HR", NO BACK IN PARKING	NEW
S8	12+96.2	93.8' LT	R7-108 "2 HR", NO BACK IN PARKING	NEW
S9	13+00.0	76.7' LT	TAKE-OUT PARKING, NO BACK IN PARKING	NEW
S10	12+96.4	49.2' RT	R10-11	NEW
S11	12+97.6	68.0' RT	LOADING ZONE	NEW
S12	13+50.4	23.6' LT	R7-108 "30 MIN"	NEW
S13	13+71.4	23.6' LT	R7-108 "2 HR"	NEW
S14	13+75.6	23.6' RT	R7-108 "2 HR"	NEW
S15	13+95.6	23.6' RT	R7-108 "2 HR"	NEW

*REINSTALL EXISTING CUSTOM PLAQUE

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORIZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: EEO	DRAWN BY: DG
4/2023	4/2023



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LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

CHANNELIZATION & SIGNING PLAN

REFERENCE
SHEET NO.

SHEET
25
OF
37
SHEETS

October 26, 2023 - 3:43 PM - ERICJ - 20-007_TS-01.DWG - Layout Name: TS-01

SIGNAL POLE NOTES:

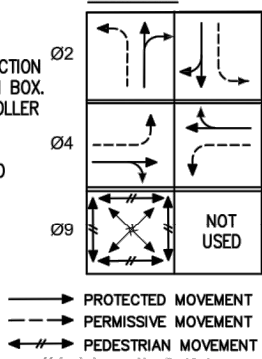
- 1
- CONSTRUCT SIGNAL POLE FOUNDATION PER POLE SCHEDULE, FURNISH AND INSTALL DECORATIVE LIGHT POLE AND ONE (1) DECORATIVE PEDESTRIAN LUMINAIRE. FURNISH AND INSTALL ONE (1) VEHICLE SIGNAL HEAD, THREE (3) PEDESTRIAN SIGNAL HEADS, EVP UNIT, ONE (1) 2-WIRE ACCESSIBLE PEDESTRIAN PUSH BUTTON ASSEMBLY WITH CUSTOM "CROSS ALL WAYS" 9"x15" SIGN (SIGN E), TRAFFIC SIGN PER PLAN, AND STREET NAME SIGN. FURNISH AND INSTALL VIDEO DETECTION CAMERA ON POLE.
- 2
- CONSTRUCT SIGNAL POLE FOUNDATION PER POLE SCHEDULE, FURNISH AND INSTALL TYPE III DECORATIVE SIGNAL MAST ARM (30') POLE AND TWO (2) DECORATIVE LUMINAIRES. FURNISH AND INSTALL THREE (3) VEHICLE SIGNAL HEADS, THREE (3) PEDESTRIAN SIGNAL HEADS, TWO (2) EVP UNITS, ONE (1) 2-WIRE ACCESSIBLE PEDESTRIAN PUSH BUTTON ASSEMBLY WITH CUSTOM "CROSS ALL WAYS" 9"x15" SIGN (SIGN E), TRAFFIC SIGNS PER PLAN, AND STREET NAME SIGN. FURNISH AND INSTALL ONE (1) VIDEO DETECTION CAMERA ON MAST ARM AND ONE (1) ON SIGNAL POLE. INSTALL WIRELESS ACCESS POINT (WAP) ON MAST ARM. INSTALL ONE (1) PTZ CAMERA ON POLE.
- 3
- CONSTRUCT SIGNAL POLE FOUNDATION PER POLE SCHEDULE, FURNISH AND INSTALL DECORATIVE LIGHT POLE AND ONE (1) DECORATIVE PEDESTRIAN LUMINAIRE. FURNISH AND INSTALL ONE (1) VEHICLE SIGNAL HEAD, THREE (3) PEDESTRIAN SIGNAL HEADS, ONE (1) 2-WIRE ACCESSIBLE PEDESTRIAN PUSH BUTTON ASSEMBLY WITH CUSTOM "CROSS ALL WAYS" 9"x15" SIGN (SIGN E), TRAFFIC SIGNS PER PLAN, AND STREET NAME SIGN.
- 4
- CONSTRUCT SIGNAL POLE FOUNDATION PER POLE SCHEDULE, FURNISH AND INSTALL TYPE III DECORATIVE SIGNAL MAST ARM (30') POLE AND TWO (2) DECORATIVE LUMINAIRES. FURNISH AND INSTALL THREE (3) VEHICLE SIGNAL HEADS, THREE (3) PEDESTRIAN SIGNAL HEADS, EVP UNIT, ONE (1) 2-WIRE ACCESSIBLE PEDESTRIAN PUSH BUTTON ASSEMBLY WITH CUSTOM "CROSS ALL WAYS" 9"x15" SIGN (SIGN E), TRAFFIC SIGNS PER PLAN, AND STREET NAME SIGN. FURNISH AND INSTALL ONE (1) VIDEO DETECTION CAMERA ON MAST ARM. INSTALL ONE (1) PTZ CAMERA ON MAST ARM.

CONSTRUCTION NOTES:

- 1
- CONSTRUCT COMBINED CONTROLLER AND SERVICE CABINET FOUNDATION PER CITY OF KIRKLAND STANDARD PLAN NO. CK-TS.04. INSTALL CONTROLLER CABINET PER SPECIFICATION AND SERVICE CABINET PER CITY OF KIRKLAND STANDARD PLAN CK-TS-05A, B AND C AND PER PLAN. INSTALL 12 STRAND SINGLE MODE FIBER OPTIC (SMFO) CABLE INTO FIBER TERMINATION PANEL PER DETAIL ON TRAFFIC SIGNAL DETAILS SHEET. CONFIGURE FOR FULLY FUNCTIONAL COMMUNICATIONS. SEE TRAFFIC SIGNAL DETAILS SHEET FOR CIRCUIT ASSIGNMENTS.
- 2
- REMOVE EXISTING POLE. POLE SHALL BECOME PROPERTY OF THE CONTRACTOR. REMOVE UNUSED WIRES. DEMOLISH FOUNDATION 3 FEET BELOW GRADE AND RESTORE WITH CSTC AND COMPACT.
- 3
- REMOVE AND SALVAGE EXISTING POLE AND STREET LIGHT TO THE CITY OF KIRKLAND. DEMOLISH FOUNDATION 3 FEET BELOW GRADE AND RESTORE WITH CSTC AND COMPACT.
- 4
- CONNECT NEW AND EXISTING CONDUIT. PULL EXISTING WIRING BACK TO JUNCTION BOX AND SPLICE EXISTING WITH NEW WIRING TO RUN TO NEW JUNCTION BOX.
- 5
- INSTALL CONDUIT AND TRACEABLE WIRE TO THIS POINT FOR POTENTIAL FUTURE PEDESTRIAN PUSH BUTTON POST FOUNDATION. CAP CONDUIT END.
- 6
- REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CABINET AND AUXILIARY EQUIPMENT. DEMOLISH AND REMOVE FOUNDATION. CONTRACTOR SHALL DISCONNECT TRAFFIC SIGNAL FROM EXISTING ELECTRICAL SERVICE AND COORDINATE WITH CITY TO PULL WIRING FOR THE TRAFFIC SIGNAL CIRCUIT BACK TO THE EXISTING POWER SERVICE CONNECTION POINT.
- 7
- PROTECT ITS VAULT AND RELATED CONDUIT IN PLACE. REMOVE EXISTING 12-STRAND SMFO LATERAL TO EXISTING CONTROLLER CABINET. RESPLICE NEW 12-STRAND LATERAL TO TRAFFIC TRUNK LINE FIBER OPTIC CABLE PER DETAIL ON TRAFFIC SIGNAL DETAILS SHEET. RUN NEW SMFO LATERAL TO NEW TRAFFIC SIGNAL CONTROLLER CABINET. REMOVE EXISTING SMFO LATERAL TO WAP ITS SWITCH/POWER INJECTOR IN ITS VAULT. RESPLICE NEW LATERAL SMFO (2 STRANDS) TO EXISTING WAP SWITCH/POWER INJECTOR PER DETAIL ON TRAFFIC SIGNAL DETAILS SHEET. RUN NEW CAT5E CABLE TO WAP. REUSE/RECONNECT EXISTING POWER CABLE FOR WAP SWITCH/POWER INJECTOR.
- 8
- PROTECT FIBER OPTIC CONDUIT IN PLACE.

- 9
- INSTALL 6 FT COUNT LOOP AND DETECTOR LEAD IN CABLE.
- 10
- PROTECT EXISTING LUMINAIRE, JUNCTION BOX AND CONDUIT IN PLACE.
- 11
- INTERCEPT EXISTING CONDUIT EXITING EXISTING ITS VAULT GOING TO HOMERUN JUNCTION BOX. CONNECT NEW AND EXISTING CONDUIT. RUN NEW CONDUIT TO NEW HOME RUN BOX. INSTALL NEW CONDUIT INTO EXISTING ITS VAULT TO RUN DIRECTLY TO NEW CONTROLLER CABINET.
- 12
- INSTALL NEW CONDUIT INTO PSE VAULT, SPLICE SERVICE CONDUCTORS AND RUN TO SERVICE CABINET. PSE VAULT WILL BE INSTALLED BY PSE.
- 13
- TRENCH BETWEEN EXISTING PSE JUNCTION BOX AND NEW VAULT, BACKFILL, AND RESTORE PER SPECIAL PROVISIONS. CONDUITS/WIRING/CONNECTIONS WILL BE INSTALLED BY PSE. COORDINATE WITH PSE FOR TRENCH REQUIREMENTS.
- 14
- SALVAGE LEGACY SERVICE ENCLOSURE TO CITY.

PROPOSED PHASE DIAGRAM



SIGNAL DISPLAYS

DISPLAY TYPE	
DISPLAY NUMBERS	21, 22, 41, 42, 61, 62, 81, 82 9A, 9B, 9C, 9D, 9E, 9F, 9G, 9H, 9I, 9J, 9K, 9L

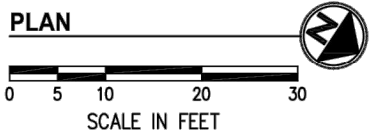
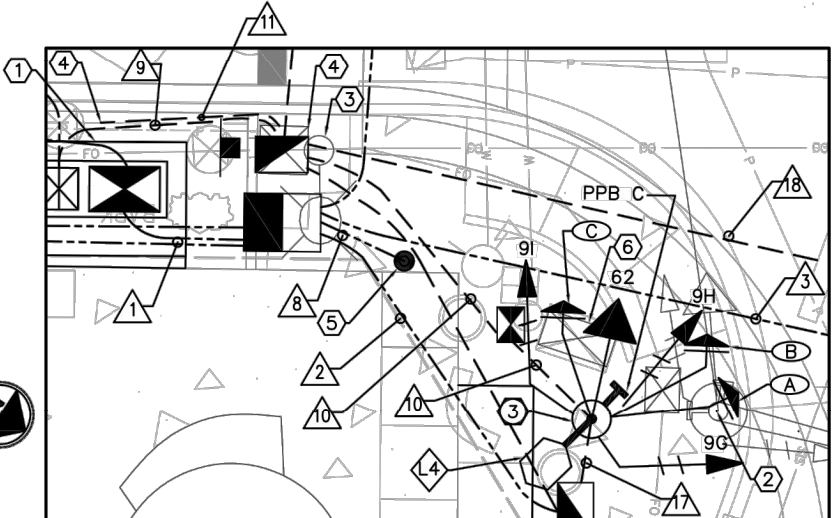
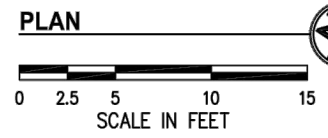
- ALL VEHICLE DISPLAY HEADS SHALL
- 1
- BE ALUMINUM
- 2
- USE ALUMINUM TUNNEL VISORS
- 3
- USE ALUMINUM LOUVERED BACKPLATES. BACKPLATES SHALL INCLUDE A 2" WIDE YELLOW RETRO-REFLECTIVE STRIP IN ACCORDANCE WITH STANDARD SPECIFICATION 9-29.16.
- 4
- USE 12" LED TYPE DISPLAYS
- ALL PEDESTRIAN DISPLAY HEADS SHALL BE COUNTDOWN TYPE WITH Z-CRATE VISORS IN ACCORDANCE WITH STANDARD SPECIFICATION 9-29.20.

LEGEND

EXISTING	NEW	DESCRIPTION	EXISTING	NEW	DESCRIPTION
		DECORATIVE SIGNAL POLE WITH MAST ARM AND DECORATIVE LUMINAIRE			JUNCTION BOX TYPE 1, 2 & 8
		DECORATIVE PEDESTRIAN LUMINAIRE AND POLE			WIRELESS ACCESS POINT
		VEHICLE SIGNAL HEAD			TRAFFIC SIGNAL CONDUIT
		PEDESTRIAN SIGNAL HEAD			ILLUMINATION CONDUIT
		EMERGENCY PRE-EMPTION DETECTOR			TRENCH
		VEHICLE DETECTION CAMERA			SIGNAL POLE NOTE
		PTZ CAMERA			CONSTRUCTION NOTE
		TRAFFIC SIGNAL MOUNTED SIGN			WIRE NOTE
		TRAFFIC SIGNAL CONTROLLER CABINET			SIGN NOTE
		ELECTRICAL SERVICE CABINET			LUMINAIRE NOTE

GENERAL NOTES:

- 1
- CONTRACTOR SHALL COORDINATE WITH PSE FOR INSTALLATION REQUIREMENTS, PERMITS, AND FEES FOR POWER SERVICE CONNECTION.
- 2
- ALL EQUIPMENT, HOUSINGS, MOUNTING, BACKS OF SIGNS, POLES AND LUMINAIRES SHALL BE POWDERCOAT BLACK PER THE SPECIAL PROVISIONS.
- 3
- CONDUIT RUNS SHALL BE STRAIGHT. CONDUIT TRENCH BACKFILL SHALL BE CSTC.
- 4
- JUNCTION BOXES SHALL BE FIELD LOCATED IN COORDINATION WITH SIDEWALK WORK.
- 5
- SEE TRAFFIC SIGNAL DETAILS SHEET FOR TRAFFIC SIGNAL DETAILS AND SIGN DETAILS.
- 6
- DUE TO PRESENCE OF UNDERGROUND UTILITIES, TRAFFIC SIGNAL POLE AND LIGHT POLE FOUNDATION EXCAVATIONS SHALL BE VACTORED.



EXISTING SIGNAL SHALL REMAIN FULLY OPERATIONAL DURING CONSTRUCTION UNTIL SIGNAL CUTOVER.

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: MT	DRAWN BY: ER
10/26/23	10/26/23



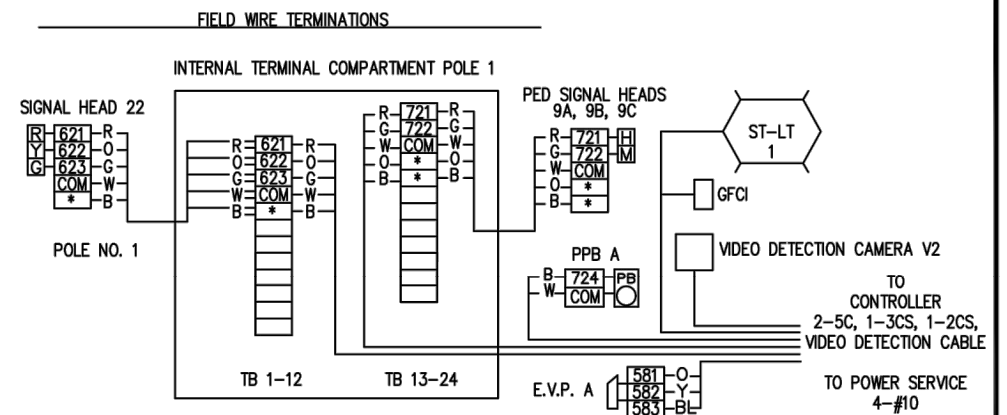
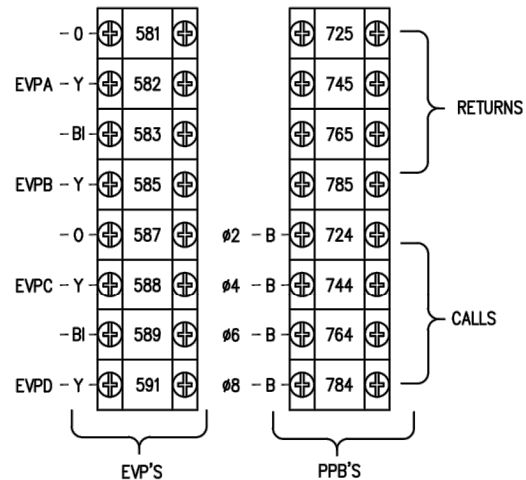
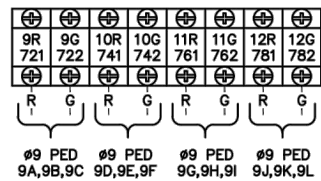
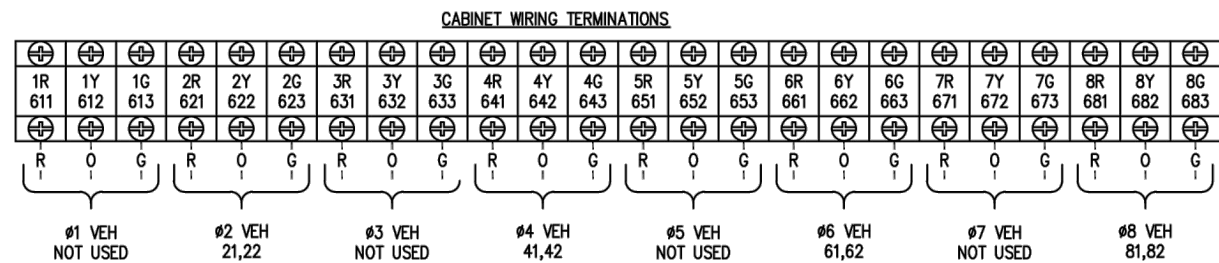
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LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

SIGNALIZATION & ILLUMINATION PLAN

REFERENCE SHEET NO.	TS-01
SHEET	26
OF	37
SHEETS	

[illegible]

Note 1: Ground Wire shall match the largest size wire in conduit, with minimum #8 size per City of Kirkland Traffic Signals Pre-Approved Notes and Plans.

Note 2: Conduit shall be Schedule 80.

Note 3: Underground warning tape shall be installed with all conduit runs.

Note 4: Match existing conduit size

DATE	NO.	REVISION	BY



UPI NO.:

SURVEY NO.:

HORZ. DATUM:
WSPCS, N ZONE, NAD 83/11

DESIGNED BY: MT 10/26/23

FED. AID PROJ. NO.:

FIELD BOOK(S):

VERT. DATUM:	NAVD 88
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DRAWN BY:	10/26/23
ER	



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

LAKE ST & KIRKLAND AVE PEDESTRIAN IMPROVEMENTS

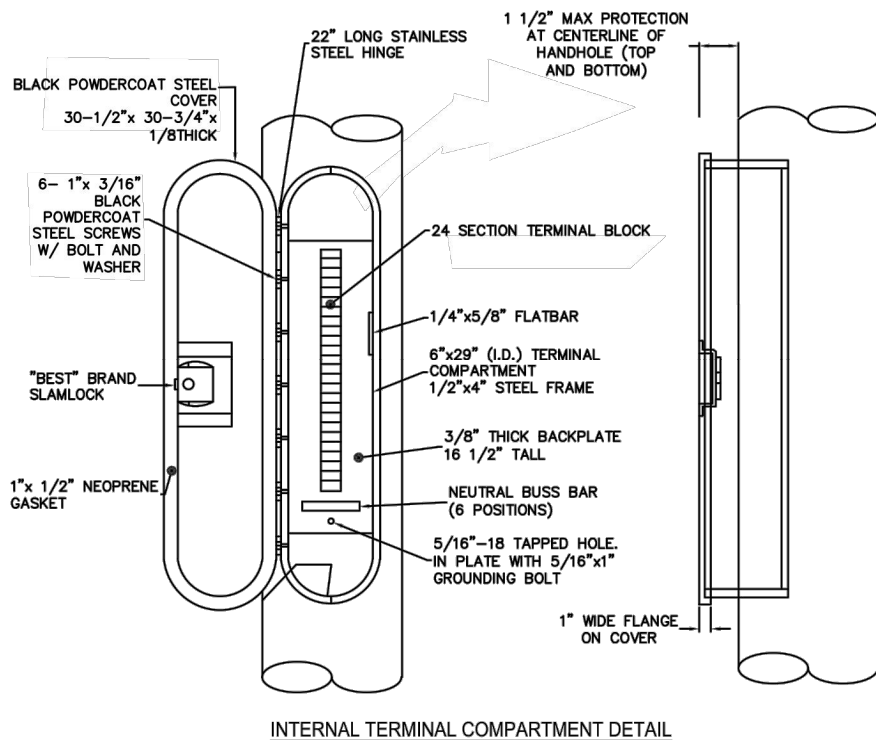
WIRE DIAGRAM DESIGN

REFERENCE

TS 02

SHEET
27

OF
37
SHEETS



The diagram illustrates the vertical clearance requirements for a Type II, III & SD Signal Standard. It shows the signal head assembly mounted on a mast arm, with various components labeled (B1 through B11, a, b, c, d, e, g, h, i, j, k, v, w, x, y, z). The signal head is shown in two views: a side view and a top view. The side view shows the signal head assembly with a circular signal lens (B1) and a rectangular signal head housing (B2). The top view shows the signal head assembly with a circular signal lens (B1) and a rectangular signal head housing (B2). The diagram also shows the signal head assembly mounted on a mast arm, with various components labeled (B1 through B11, a, b, c, d, e, g, h, i, j, k, v, w, x, y, z). The signal head is shown in two views: a side view and a top view. The side view shows the signal head assembly with a circular signal lens (B1) and a rectangular signal head housing (B2). The top view shows the signal head assembly with a circular signal lens (B1) and a rectangular signal head housing (B2).

SIGNAL DISPLAY VERTICAL CLEARANCE TO ROADWAY

	MIN.	MAX.			
HORIZONTAL DISTANCE FROM STOP LINE	ALL	40'	45'	50'	53' - 180'
3 SECTION 12"	16.5'	17.5'	19.2'	20.9'	22.0'
5 SECTION CLUSTER 12"	16.5'	17.0'	18.0'	19.7'	20.8'
4 SECTION 12"	16.5'	17.0'	18.0'	19.7'	20.8'
5 SECTION 12"	16.5'	17.0'	17.5'	18.5'	19.6'

MEASURED FROM BOTTOM OF SIGNAL HEAD HOUSING TO ROADWAY

TYPE II, III & SD SIGNAL STANDARD

ROADWAY

LIMITS OF VERTICAL CLEARANCE

CURB OR EDGE OF SHOULDER

TOP OF FOUNDATION ELEVATION PER TABLE AND SPECIAL PROVISIONS

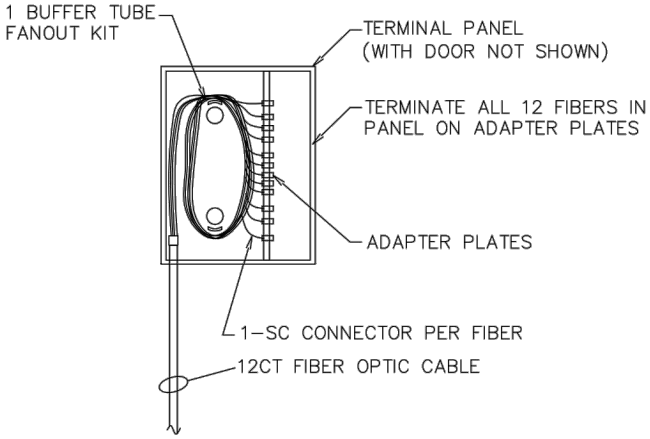
FINISHED GRADE TO CENTER OF PUSHBUTTON

Diagram labels include: B1, B2, B3, B4, B5, B7, B8, B9, B10, B11, a, b, c, d, e, g, h, i, j, k, v, w, x, y, z, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

SIGNAL DISPLAY VERTICAL CLEARANCE TO ROADWAY					
	MIN.	MAX.			
HORIZONTAL DISTANCE FROM STOP LINE	ALL	40'	45'	50'	53' - 180'
3 SECTION 12" 5 SECTION CLUSTER 12"	16.5'	17.5'	19.2'	20.9'	22.0'
4 SECTION 12"	16.5'	17.0'	18.0'	19.7'	20.8'
5 SECTION 12"	16.5'	17.0'	17.5'	18.5'	19.6'
MEASURED FROM BOTTOM OF SIGNAL HEAD HOUSING TO ROADWAY					

LUMINAIRE SCHEDULE		
LUMINAIRE NUMBER	LUMINAIRE TYPE	ARM TYPE
L1	PEDESTRIAN	FAMAR36
L2	ROADWAY	FAMAR72
L3	ROADWAY	FAMAR72
L4	PEDESTRIAN	FAMAR36
L5	ROADWAY	FAMAR72
L6	ROADWAY	FAMAR72

STD. No.	FIELD LOCATION							TYPE	MOUNTING HEIGHT (FT)			SIGNAL MAST ARM DATA																										POLE ATTACHMENT POINT ANGLES (deg)																		FOUNDATION DESIGN				REMARKS
												OFFSET DISTANCES (FT) (Z)										WINDLOAD AREAS (FT ²) (X)(Y)										LUMINAIRE		(X)(Y)(Z) TOTAL (FT ³)	SOIL PSF	DEPTH (FT)	DEPTH (FT)																			DEPTH (FT)				
	A1 ⁶	A2	V1	B1	B2	B3	B4		B5	B6	B7	B8	B9	B10	B11	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11 ⁵	AREA	C	D1	D2	E	Fa	Fe(A)	Fe(B)		Fe(C,D)	G1	G2	G3	H	I	K	V	3' RD.	3' SQR	4' RD.														
1	Lake Street	13.07.76	27.77	X		33.37	90	LIGHT		15.5	22																				0	315			0	90	45	180	135	315		0	1000	10	8	8														
2	Lake Street	13+08.11	29.94		X	33.44	0	III	17.5	32	22	27	29.8	19	10.5	23		15	17.0							5.5	9.2	6.0	9.2	5.0				1.0				36.0	3.3	6	887	0	270	0	270	315			90	45	180	180	315	F	270	1000	N/A	9	9	
3	Lake Street	12+54.48	38.17		X	33.39	90	LIGHT		15.5																					0	315	270	0	90	45	180	135	315			1000	10	8	8															
4	Lake Street	12+47.78	28.69	X		32.90	0	III	17.5	32		26	29.0	17.5	10.5	19.5					24	22			5.5	9.2	6.0	9.2	5.0							36.0	3.3	6	840	0	270	0	270	315			90	45	180	180	315			1000	N/A	9	9			
NOTE 1: FOUNDATION PER WSDOT STD J-26.10 . GROUT PAD SHALL BE TALLER AND ANCHOR BOLTS SHALL BE 4 INCHES LONGER THAN TYPICAL. SEE "DECORATIVE PAVER ON CEMENT CONCRETE SLAB SECTION" AND THE "DECORATIVE PAVER WITH POLYETHYLENE WEB SYSTEM SECTION" DETAILS ON SHEET 5 FOR TOP OF FOUNDATION, PAVER, AND GROUTING DETAILS.																																																												
NOTE 2: POA FOR LIGHT POLES IS ASSUMED TO BE AT 90 DEGREES CLOCKWISE FROM PERPENDICULAR LINE DRAWN TO ROADWAY CENTERLINE (AS IF THERE WERE A MAST ARM ON THE POLE).																																																												
NOTE 3: POLE ATTACHMENT POINT "F" MEANS FIELD VERIFIED BY ENGINEER																																																												
NOTE 4: VERIFY TOP OF FOUNDATION ELEVATION WITH ENGINEER PRIOR TO INSTALLATION, TOP OF FOUNDATION SHALL BE BELOW FINISHED GRADE TO ALLOW FOR UNINTERRUPTED FINISHED GRADE PAVER MATERIAL. SEE SPECIAL PROVISIONS FOR FOUNDAAATION REQUIREMENTS.																																																												
NOTE 5: STREET NAME SIGN WINDLOAD AREA IN TABLE (B11) USED FOR CONSERVATIVE WIND LOAD CALCULATION. ACTUAL STREET NAME SIGN SIZE SHOWN IN DETAILS ON SHEET TS-04																																																												
NOTE 6: VERIFY MAST ARM MOUNTING HEIGHT WITH POLE MANUFACTURER BASED ON CURVATURE OF MAST ARM AND REQUIRED SIGNAL HEAD CLEARNACE MINIMUM OF 16.5' AND MAXIMUM OF 22'																																																												



FIBER TERMINATION PANEL DETAIL
NOT TO SCALE

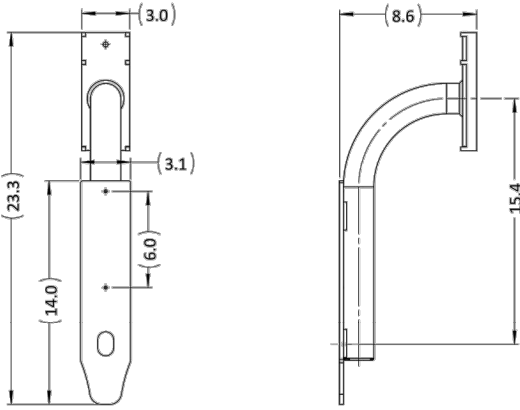
PANELBOARD SCHEDULE "S" 120/240V 1P 3W 22K AIC SERIES RATED									
CKT#	DESCRIPTION	TYPE	TRIP/POLE	TRIP/POLE	TYPE	DESCRIPTION	CKT#		
1	MAIN CB	QBH	100/2				2		
3							4		
5	ILLUMINATION #1	BAB	30/2				6		
7							8		
9	ILLUMINATION #2	BAB	30/2				10		
11							12		
13	RECEPTACLE	BAB	20/1				14		
15	CLOCK	BAB	20/1				16		
17	PREPARED SPACE						18		

PANELBOARD SCHEDULE "T" 120/240V 1P 3W 22K AIC SERIES RATED									
CKT#	DESCRIPTION	TYPE	TRIP/POLE	TRIP/POLE	TYPE	DESCRIPTION	CKT#		
1	MAIN CB	QBH	100/2				2		
3							4		
5	SIGNAL	BAB	50/1				6		



INS-EXTHTRED: Extender for Height Reduction

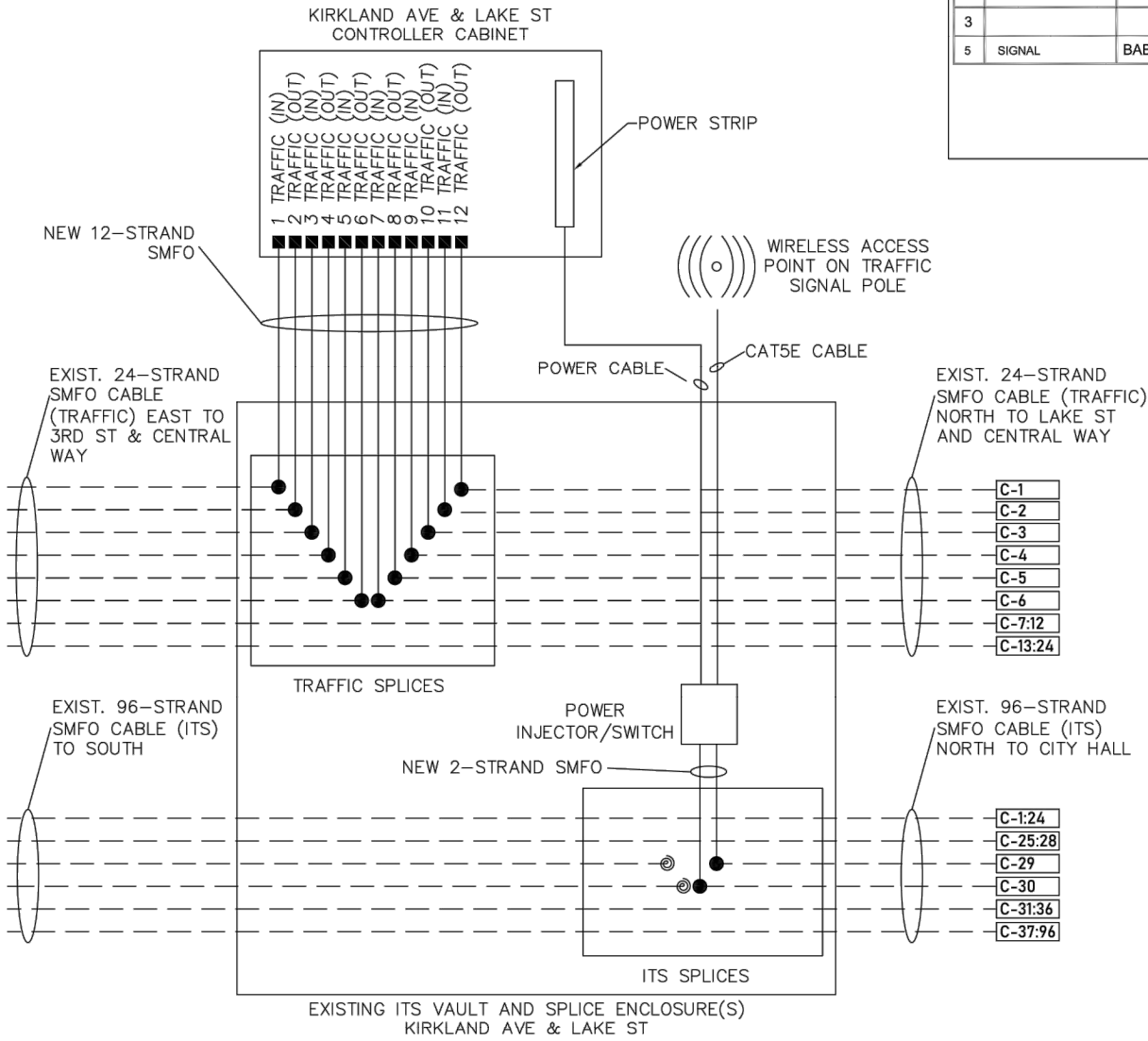
The MUTCD specifies a maximum push button height of 48" with no minimum specified. The recommended height is typically 42" above ground/standing grade, but it can be lower. Sometimes access ports on poles, or large decorative bases on poles, make mounting a push button within this height limit challenging. This extender is designed for these instances and allows an "IN" or "INS" Navigator PBS, PBF2, or PBF2C to extend out from the pole approximately 9" and reduce/adjust the button height by up to 15". This extender can be fastened to the pole by either banding (up to 1" wide) or bolted using the two ¼-20 mounting bolts supplied with each extender. It is constructed from welded steel, with a hot dipped galvanize coating.



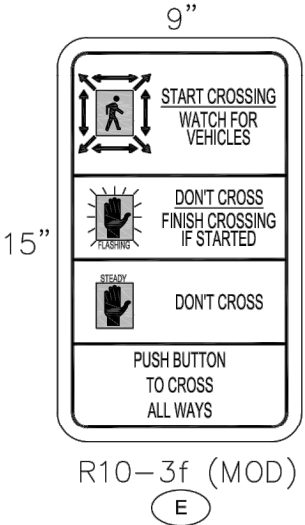
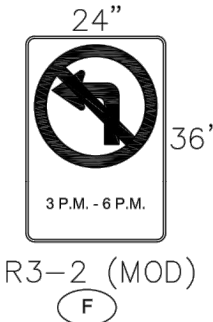
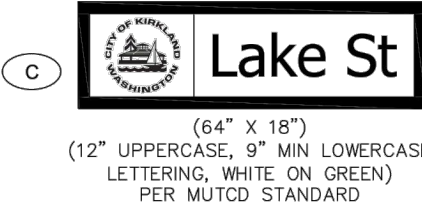
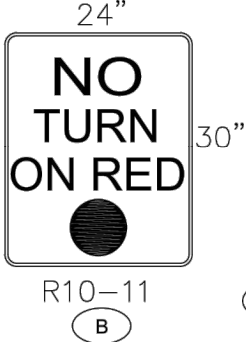
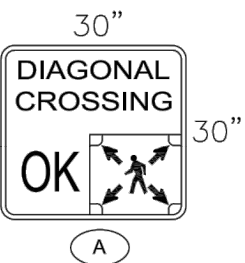
Dimensions are in inches.

Doc. INS-EXTHTRED-CutSheet Rev. A-25231 01/07/20

www.polara.com



FIBER SPLICE DETAIL
NOT TO SCALE



- (BLACK) 9 X 15 BACKPLATE.
- NO-ARROW BUTTON ASSEMBLY.
- MODIFIED R10-3f SIGN PER DETAIL

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: MT	10/26/23

DESIGNED BY: MT	10/26/23
DRAWN BY: ER	10/26/23



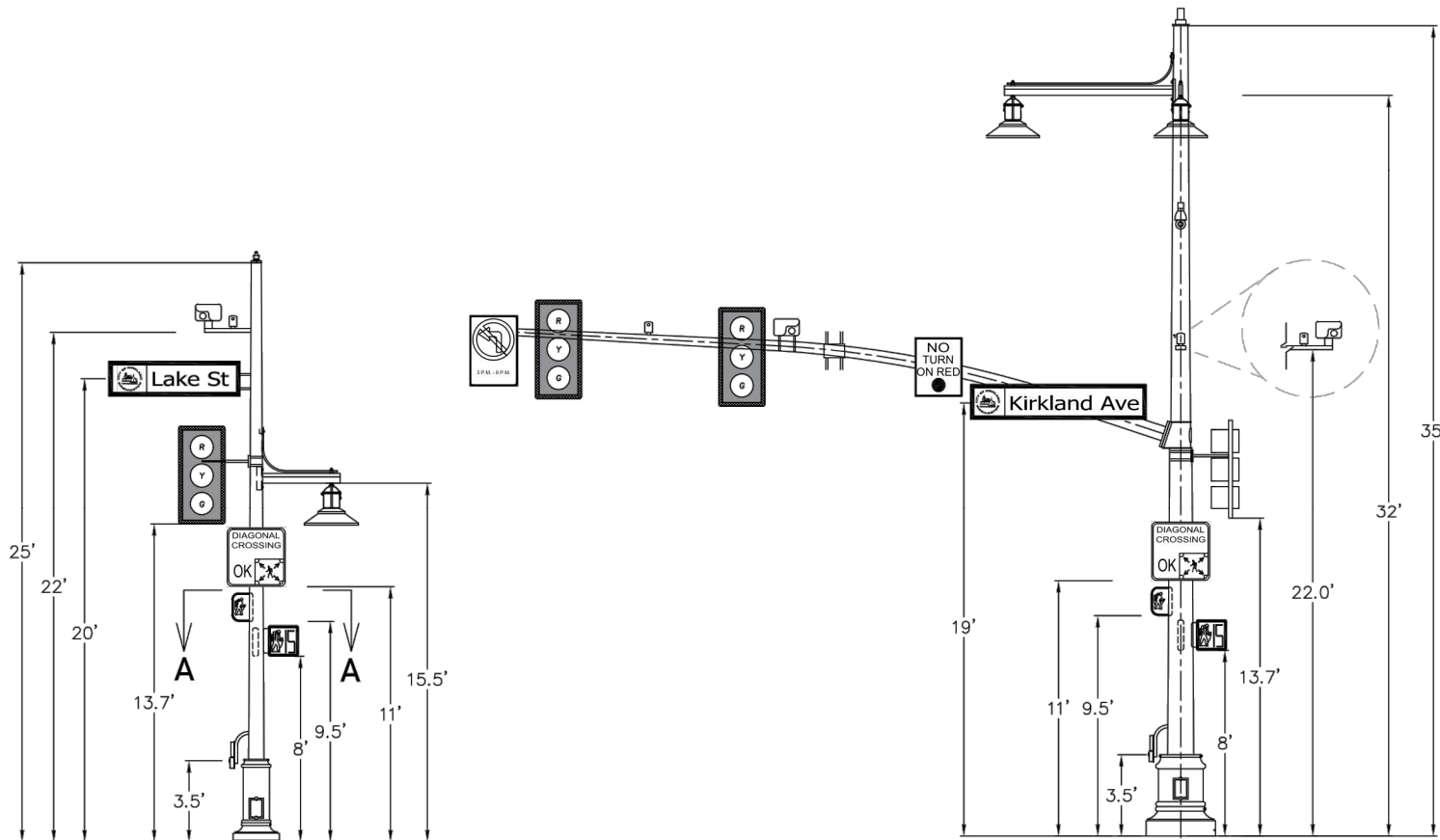
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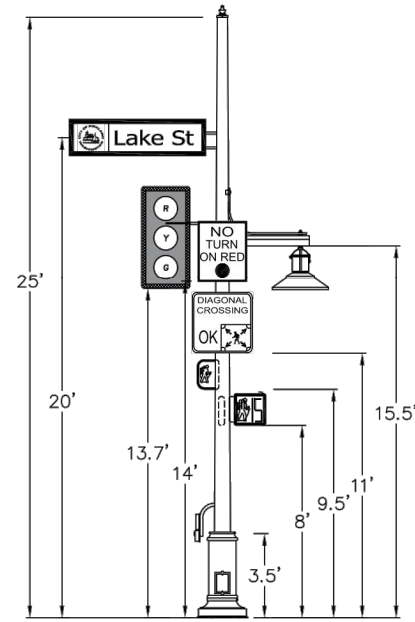
LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS
TRAFFIC SIGNAL DETAILS

REFERENCE SHEET NO.	TS-04
SHEET	29
OF	37
SHEETS	

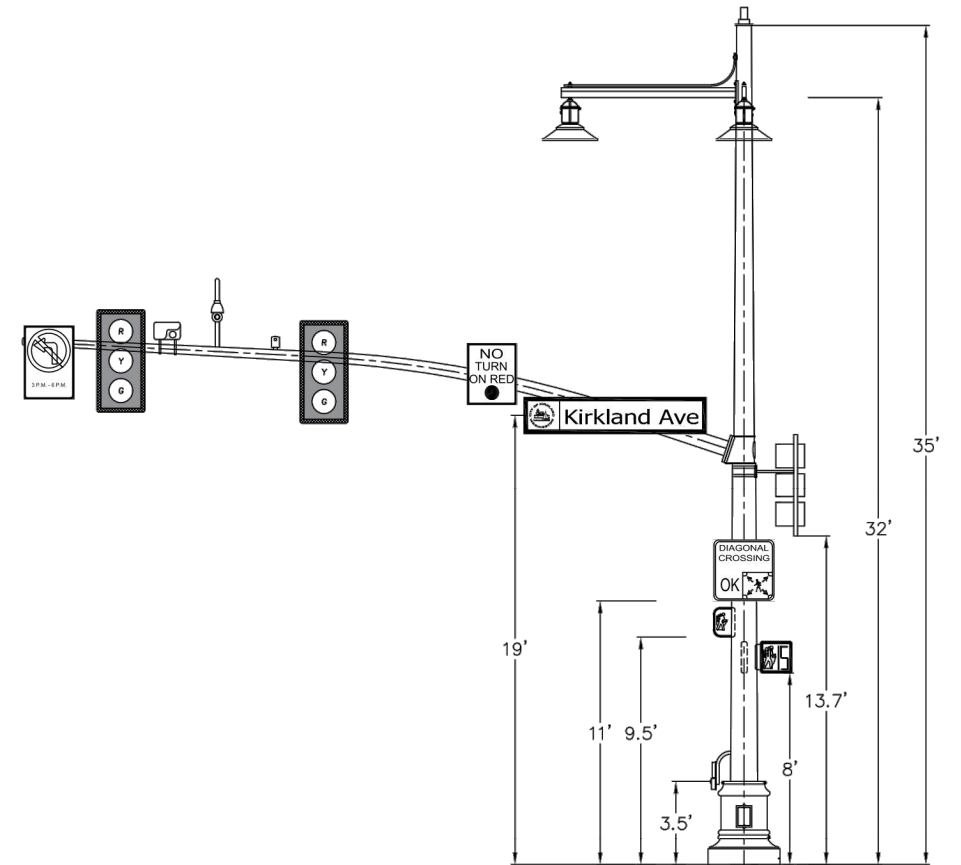


TRAFFIC SIGNAL DETAIL ①
AS VIEWED FROM EAST
SCALE 1"=4'

TRAFFIC SIGNAL DETAIL ②
AS VIEWED FROM SOUTH
SCALE 1"=4'



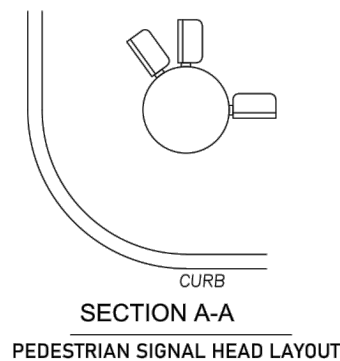
TRAFFIC SIGNAL DETAIL ③
AS VIEWED FROM WEST
SCALE 1"=4'



TRAFFIC SIGNAL DETAIL ④
AS VIEWED FROM NORTH
SCALE 1"=4'

GENERAL NOTES:

- EQUIPMENT SHOWN TO SCALE. EQUIPMENT ATTACHMENT POINT AND ANGLE OF ATTACHMENT SIMPLIFIED. REFER TO SIGNAL STANDARD DETAIL CHART FOR MORE INFORMATION REGARDING EQUIPMENT ATTACHMENT POINTS AND ANGLES.
- MOUNT PEDESTRIAN SIGNAL HEADS USING TYPE "E" SIDEMOUNT CLAMSHELL.
- MOUNT MAST ARM VEHICLE SIGNAL HEAD USING TYPE "M" MOUNT.
- MOUNT POLE MOUNTED VEHICLE SIGNAL USING TYPE "M" MOUNT WITH PELCO ASTRO-BRAC CLAMP KIT AND PLUMBIZER TUBE PER SPECIFICATIONS.
- MOUNT POLE MOUNTED VIDEO DETECTION CAMERA WITH PELCO 2-PIECE EXTENDED TILT AND PAN CAMERA BRACKET PER SPECIFICATIONS.
- MOUNT MAST ARM MOUNTED CCTV CAMERA WITH TKH GOOSENECK MOUNT PER SPECIFICATIONS. CONTRACTOR SHALL OBTAIN ENGINEERS FIELD APPROVAL OF MOUNTING HEIGHT AND ANGLE PRIOR TO DRILLING HOLES IN POLE.
- MOUNT POLE MOUNTED CCTV CAMERA WITH TKH POLE MOUNT PER SPECIFICATIONS. CONTRACTOR SHALL OBTAIN ENGINEERS FIELD APPROVAL OF MOUNTING HEIGHT AND ANGLE PRIOR TO DRILLING HOLES IN POLE.
- MOUNT MAST ARM MOUNTED STREET NAME SIGNS WITH PELCO ASTRO SIGN-BRAC, STELLAR BAND MOUNT PER SPECIFICATIONS.
- POLE MOUNTED STREET NAME SIGN MOUNTED WITH BRACKET PROVIDED WITH POLE.
- MOUNT ACCESSIBLE PEDESTRIAN PUSH BUTTON ASSEMBLIES WITH POLARA INS-EXTHTRED EXTENDER FOR HEIGHT REDUCTION PER DETAIL ON SHEET TS-04.

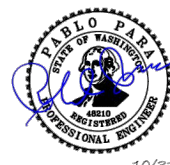


October 26, 2023 - 3:43 PM - ERICJ - 20-007_TS-05.DWG - Layout Name: TS-05

DATE	NO.	REVISION	BY



UPI NO.:	FED. AID PROJ. NO.:
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DESIGNED BY: MT 10/26/23	DRAWN BY: ER 10/26/23



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LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS
TRAFFIC SIGNAL POLE DETAIL

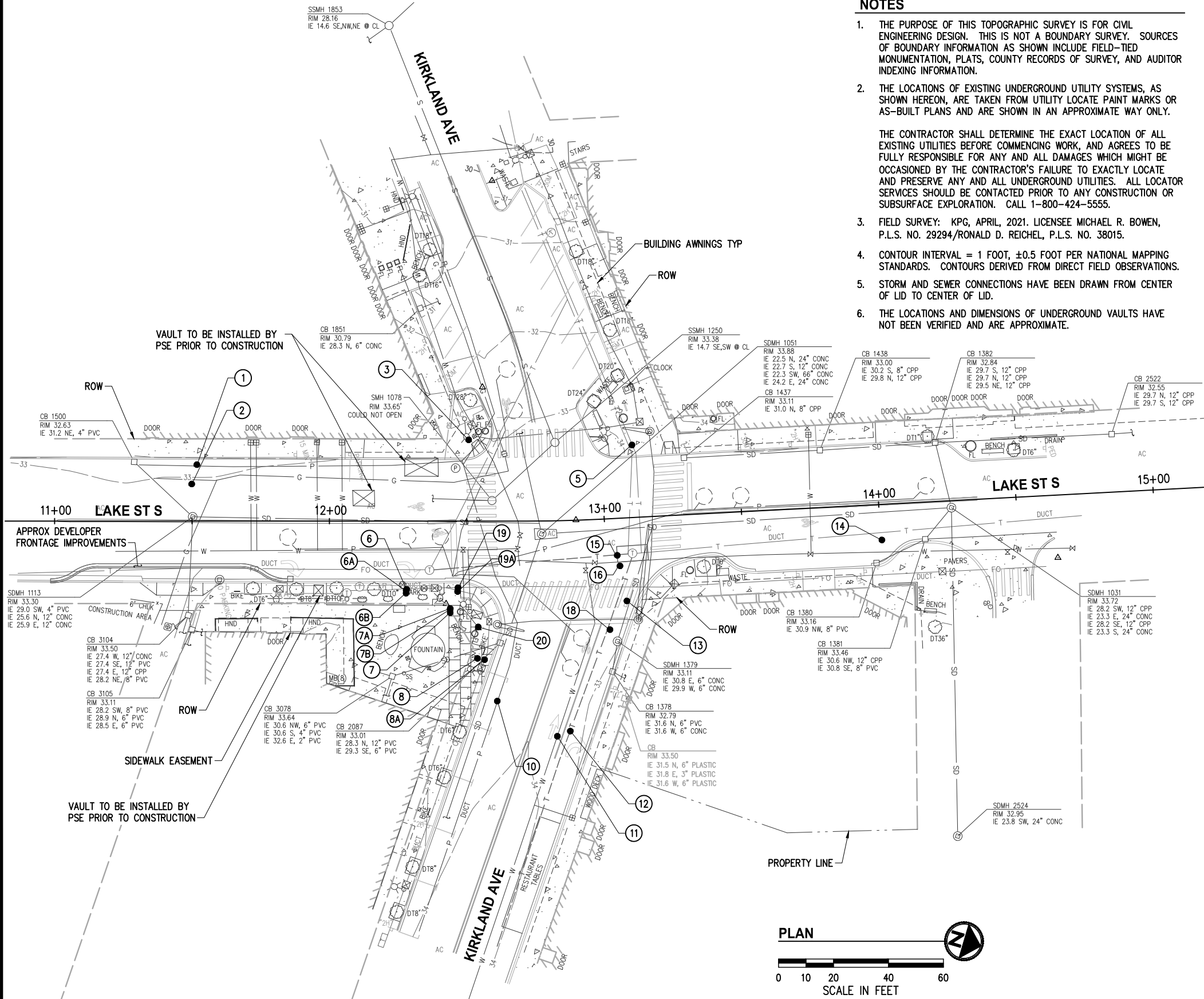
REFERENCE SHEET NO. TS-05
SHEET 30 OF 37 SHEETS

December 4, 2023 - 5:44 PM - DAREK GOCH - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\DRAWINGS\CONTRACT\20045EXCOND.DWG - Layout Name: EXISTING CONDITIONS & POT HOLE PLAN

NOTES

1. THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR CIVIL ENGINEERING DESIGN. THIS IS NOT A BOUNDARY SURVEY. SOURCES OF BOUNDARY INFORMATION AS SHOWN INCLUDE FIELD-TIED MONUMENTATION, PLATS, COUNTY RECORDS OF SURVEY, AND AUDITOR INDEXING INFORMATION.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.

THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL LOCATOR SERVICES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION OR SUBSURFACE EXPLORATION. CALL 1-800-424-5555.
3. FIELD SURVEY: KPG, APRIL, 2021. LICENSEE MICHAEL R. BOWEN, P.L.S. NO. 29294/RONALD D. REICHEL, P.L.S. NO. 38015.
4. CONTOUR INTERVAL = 1 FOOT, ±0.5 FOOT PER NATIONAL MAPPING STANDARDS. CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS.
5. STORM AND SEWER CONNECTIONS HAVE BEEN DRAWN FROM CENTER OF LID TO CENTER OF LID.
6. THE LOCATIONS AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.



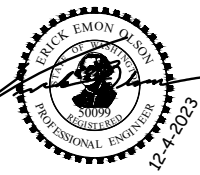
POTHOLES

#	STATION	OFFSET	DESCRIPTION	TOP UTIL DEPTH (IN)	BOT UTIL DEPTH (IN)	ASPHALT DEPTH (IN)	CONC DEPTH (IN)
1	11+51.8	20.5' LT	PSE POWER (2)-2" PVC, (2)-4" PVC, (2)-6" PVC 30" WIDE	40.0	50.0	9	N/A
2	11+49.9	13.5' LT	PSE GAS 2" STW	49.0	51.0	11	N/A
3	12+50.6	29.6' LT	SIGNAL FND POT HOLE 2" PVC (UNKOWN)	28.0	30.0	N/A	3
5	13+11.5	26.4' LT	ZIPLY FIBER 24" WIDE CONC DUCT	41.0	65.0	N/A	15
6B	12+27.9	26.2' RT	IRRIGATION 2" PVC	7.0	9.0	N/A	N/A
6A	12+27.9	25.3' RT	UNKOWN 8" STEEL	23.0	31.0	N/A	N/A
6	12+28.1	24.8' RT	LUMEN & ZAYO FIBER (IN JUT W/ C.O.K., LWSD, UW, COB) 32" WIDE CDF DUCT	20.0	NOT FOUND	N/A	N/A
7A	12+44.0	31.8' RT	UNKOWN DUCT	24.0	56.0	N/A	7
7B	12+43.9	32.2' RT	UNKNOWN 1" STEEL	30.0	31.0	N/A	7
7	12+43.9	33.3' RT	SIGNAL FND POT HOLE SEE 7A & 7B	N/A	N/A	N/A	7
8A	12+56.4	50.4' RT	LIGHTING (2)-2" PVC	27.5	29.5	N/A	5.5
8	12+53.9	50.0' RT	LUMEN FIBER (IN JUT W/ C.O.K., LWSD, UW, COB) NOT FOUND TO 6' DEEP	NOT FOUND	NOT FOUND	N/A	6
10	12+61.1	65.5' RT	PSE POWER (1)-6" PVC, (2)-3" PVC, (2)-2" PVC 20" WIDE	26.0	38.0	10	N/A
11	12+81.4	78.4' RT	C.O.K. WATER 12" DI	35.0	47.0	13	N/A
12	12+85.6	76.6' RT	ZIPLY FIBER 30" WIDE CONC DUCT	37.0	57.0	13	N/A
13	13+06.7	30.2' RT	SIGNAL FND POT HOLE NO UTILITY FOUND TO 8' DEEP	N/A	N/A	13	N/A
14	14+00.5	12.9' RT	ZIPLY FIBER NOT FOUND TO 6' DEEP	NOT FOUND	NOT FOUND	6	7.5
15	13+04.0	13.4' RT	ZIPLY FIBER (2) 4" PVC	60.0	64.0	5	6
16	13+04.8	17.3' RT	C.O.K. WATER 16" DI	62.0	78.0	5	6
18	12+99.9	40.3' RT	ZIPLY FIBER (2) 8" STEEL	48.0	56.0	5	4
19A	12+46.6	25.6' RT	UNKNOWN 6" STEEL	27.0	33.0	N/A	7
19	12+46.8	24.2' RT	LUMEN & ZAYO FIBER (IN JUT W/ C.O.K., LWSD, UW, COB) 40" WIDE CDF DUCT	22.0	41.0	N/A	7
20	12+54.1	38.5' RT	SIGNAL FND POT HOLE NO UTILITY FOUND TO 8' DEEP	N/A	N/A	N/A	6

DATE	NO.	REVISION	BY		



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: EEO	4/2023
DRAWN BY: DG	4/2023



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LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

EXISTING CONDITIONS & POT HOLE PLAN

REFERENCE
SHEET NO.

SHEET
31
OF
37
SHEETS

December 4, 2023 - 5:44 PM - DAREK GOCH - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\DRAWINGS\CONTRACT\20045\TC.DWG - Layout Name: PHASE 1 - INTERSECTION CLOSURE



GENERAL NOTES

1. SEE SPECIAL PROVISIONS SECTIONS 1-07.23, 1-08.0(2), AND 1-10 FOR TRAFFIC CONTROL REQUIREMENTS, WORK HOUR RESTRICTIONS, AND ALLOWABLE INTERSECTION, SIDEWALK, AND CROSSWALK CLOSURES.
2. ACCESS TO BUSINESSES MUST BE MAINTAINED AT ALL TIMES DURING BUSINESS HOURS.
3. IF DEVIATIONS FROM THE TRAFFIC CONTROL AND/OR CONSTRUCTION PHASING SHOWN IN THESE PLANS ARE PROPOSED, THE CONTRACTOR SHALL SUBMIT THEIR OWN TRAFFIC CONTROL AND/OR CONSTRUCTION PHASING PLANS TO THE ENGINEER FOR APPROVAL AT LEAST 14 DAYS PRIOR TO THE START OF ANY CONSTRUCTION PHASE OR PUBLIC NOTIFICATION OF CLOSURE. SEE SPECIAL PROVISIONS.
4. CONSTRUCTION ACTIVITIES NOT SPECIFICALLY SEQUENCED SHALL BE CONDUCTED IN A MANNER TO MINIMIZE PUBLIC IMPACT. FULL PROGRESS SCHEDULES IN ACCORDANCE WITH SECTION 1-08.3 OF THE SPECIFICATIONS ARE NECESSARY FOR ITEMS INCLUDING, BUT NOT LIMITED TO STORM DRAINS, WATER SYSTEM, UTILITY TRENCHING AND OTHER ITEMS AFFECTING TRAFFIC OR AGENCY COORDINATION.
5. CONFLICTING SIGNS AND CHANNELIZATION SHALL BE COVERED OR REMOVED.
6. SEE DETOUR PLAN SHEET 37 FOR DETOUR ROUTES AND SIGNAGE DURING INTERSECTION CLOSURE, AND PCMS BOARDS TO BE IN PLACE FOR THE ENTIRE PROJECT DURATION.
7. ABRUPT PAVEMENT EDGES OF 2.5" OR GREATER TRANSVERSE TO THE ROADWAY SHALL BE WEDGED ACCORDING TO THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1-07.
10. DURING FULL INTERSECTION CLOSURE, CONTRACTOR SHALL INSTALL FOUR "SIDEWALK OPEN, BIKES DISMOUNT" SIGNS AT LOCATIONS APPROVED BY THE ENGINEER. CITY WILL RETAIN OWNERSHIP OF SIGNS UPON COMPLETION OF CONSTRUCTION.
11. DURING FULL INTERSECTION CLOSURE, CONTRACTOR SHALL INSTALL FOUR "YES, BUSINESSES ARE OPEN" SIGNS (INCL CITY LOGO) ON BARRICADES WHERE NOTED. SIZE, LETTERING, COLORS, AND LAYOUT SHALL BE AS APPROVED BY THE ENGINEER. CITY WILL RETAIN OWNERSHIP OF SIGNS UPON COMPLETION OF CONSTRUCTION.
12. INSTALL "NO PARKING" SIGNS FOR PARKING STALLS ADJACENT TO ACTIVE WORK ZONE, LOCATIONS TO BE APPROVED BY THE ENGINEER.

TRAFFIC CONTROL LEGEND

- WORK ZONE, INSTALL TEMPORARY FENCE PER SPECIAL PROVISIONS SECTION 1-07.23
- NO PARKING ZONE/U-TURN AREA, INSTALL TEMPORARY "NO PARKING" SIGNS AND 4" WHITE TEMP TAPE CROSSHATCH AS APPROVED BY THE ENGINEER
- SIGN
- TYPE 3 BARRICADE (SIGN ATTACHED WHERE NOTED)

DATE	NO.	REVISION	BY		



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: EEO	4/2023
DRAWN BY: DG	4/2023



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LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

PHASE 1 - INTERSECTION CLOSURE
TRAFFIC CONTROL & DETOUR PLAN

REFERENCE
SHEET NO.

SHEET
32
OF
37
SHEETS

December 4, 2023 - 5:44 PM - DAREK GOCH - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\DRAWINGS\CONTRACT\20045\TC.DWG - Layout Name: PHASE 2 - PEDESTRIAN CONTROL



GENERAL NOTES

1. SEE SPECIAL PROVISIONS SECTIONS 1-07.23, 1-08.0(2), AND 1-10 FOR TRAFFIC CONTROL REQUIREMENTS, WORK HOUR RESTRICTIONS, AND ALLOWABLE INTERSECTION, SIDEWALK, AND CROSSWALK CLOSURES.
2. ACCESS TO BUSINESSES MUST BE MAINTAINED AT ALL TIMES DURING BUSINESS HOURS.
3. IF DEVIATIONS FROM THE TRAFFIC CONTROL AND/OR CONSTRUCTION PHASING SHOWN IN THESE PLANS ARE PROPOSED, THE CONTRACTOR SHALL SUBMIT THEIR OWN TRAFFIC CONTROL AND/OR CONSTRUCTION PHASING PLANS TO THE ENGINEER FOR APPROVAL AT LEAST 14 DAYS PRIOR TO THE START OF ANY CONSTRUCTION PHASE OR PUBLIC NOTIFICATION OF CLOSURE. SEE SPECIAL PROVISIONS.
4. CONSTRUCTION ACTIVITIES NOT SPECIFICALLY SEQUENCED SHALL BE CONDUCTED IN A MANNER TO MINIMIZE PUBLIC IMPACT. FULL PROGRESS SCHEDULES IN ACCORDANCE WITH SECTION 1-08.3 OF THE SPECIFICATIONS ARE NECESSARY FOR ITEMS INCLUDING, BUT NOT LIMITED TO STORM DRAINS, WATER SYSTEM, UTILITY TRENCHING AND OTHER ITEMS AFFECTING TRAFFIC OR AGENCY COORDINATION.
5. CONFLICTING SIGNS AND CHANNELIZATION SHALL BE COVERED OR REMOVED.
6. SEE DETOUR PLAN SHEET 37 FOR DETOUR ROUTES AND SIGNAGE DURING INTERSECTION CLOSURE, AND PCMS BOARDS TO BE IN PLACE FOR THE ENTIRE PROJECT DURATION.
7. ABRUPT PAVEMENT EDGES OF 2.5" OR GREATER TRANSVERSE TO THE ROADWAY SHALL BE WEDGED ACCORDING TO THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1-07.
10. DURING FULL INTERSECTION CLOSURE, CONTRACTOR SHALL INSTALL FOUR "SIDEWALK OPEN, BIKES DISMOUNT" SIGNS AT LOCATIONS APPROVED BY THE ENGINEER. CITY WILL RETAIN OWNERSHIP OF SIGNS UPON COMPLETION OF CONSTRUCTION.
11. DURING FULL INTERSECTION CLOSURE, CONTRACTOR SHALL INSTALL FOUR "YES, BUSINESSES ARE OPEN" SIGNS (INCL CITY LOGO) ON BARRICADES WHERE NOTED. SIZE, LETTERING, COLORS, AND LAYOUT SHALL BE AS APPROVED BY THE ENGINEER. CITY WILL RETAIN OWNERSHIP OF SIGNS UPON COMPLETION OF CONSTRUCTION.
12. INSTALL "NO PARKING" SIGNS FOR PARKING STALLS ADJACENT TO ACTIVE WORK ZONE, LOCATIONS TO BE APPROVED BY THE ENGINEER.

TRAFFIC CONTROL LEGEND

- WORK ZONE, INSTALL TEMPORARY FENCE PER SPECIAL PROVISIONS SECTION 1-07.23
- NO PARKING ZONE/U-TURN AREA, INSTALL TEMPORARY "NO PARKING" SIGNS AND 4" WHITE TEMP TAPE CROSSHATCH AS APPROVED BY THE ENGINEER
- SIGN
- TYPE 3 BARRICADE (SIGN ATTACHED WHERE NOTED)

DATE	NO.	REVISION		BY	



UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
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CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

PHASE 2 - PEDESTRIAN CONTROL
TRAFFIC CONTROL & DETOUR PLAN

REFERENCE
SHEET NO.

SHEET
33
OF
37
SHEETS

December 4, 2023 - 5:44 PM - DAREK GOCH - K:\KIRKLAND\20045 - KIRKLAND AVE & LAKE ST INTERSECTION IMPROVEMENTS\DRAWINGS\CONTRACT\20045\TC.DWG - Layout Name: PHASE 3 - PEDESTRIAN CONTROL



GENERAL NOTES

- SEE SPECIAL PROVISIONS SECTIONS 1-07.23, 1-08.0(2), AND 1-10 FOR TRAFFIC CONTROL REQUIREMENTS, WORK HOUR RESTRICTIONS, AND ALLOWABLE INTERSECTION, SIDEWALK, AND CROSSWALK CLOSURES.
- ACCESS TO BUSINESSES MUST BE MAINTAINED AT ALL TIMES DURING BUSINESS HOURS.
- IF DEVIATIONS FROM THE TRAFFIC CONTROL AND/OR CONSTRUCTION PHASING SHOWN IN THESE PLANS ARE PROPOSED, THE CONTRACTOR SHALL SUBMIT THEIR OWN TRAFFIC CONTROL AND/OR CONSTRUCTION PHASING PLANS TO THE ENGINEER FOR APPROVAL AT LEAST 14 DAYS PRIOR TO THE START OF ANY CONSTRUCTION PHASE OR PUBLIC NOTIFICATION OF CLOSURE. SEE SPECIAL PROVISIONS.
- CONSTRUCTION ACTIVITIES NOT SPECIFICALLY SEQUENCED SHALL BE CONDUCTED IN A MANNER TO MINIMIZE PUBLIC IMPACT. FULL PROGRESS SCHEDULES IN ACCORDANCE WITH SECTION 1-08.3 OF THE SPECIFICATIONS ARE NECESSARY FOR ITEMS INCLUDING, BUT NOT LIMITED TO STORM DRAINS, WATER SYSTEM, UTILITY TRENCHING AND OTHER ITEMS AFFECTING TRAFFIC OR AGENCY COORDINATION.
- CONFLICTING SIGNS AND CHANNELIZATION SHALL BE COVERED OR REMOVED.
- SEE DETOUR PLAN SHEET 37 FOR DETOUR ROUTES AND SIGNAGE DURING INTERSECTION CLOSURE, AND PCMS BOARDS TO BE IN PLACE FOR THE ENTIRE PROJECT DURATION.
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- INSTALL "NO PARKING" SIGNS FOR PARKING STALLS ADJACENT TO ACTIVE WORK ZONE, LOCATIONS TO BE APPROVED BY THE ENGINEER.

TRAFFIC CONTROL LEGEND

- WORK ZONE, INSTALL TEMPORARY FENCE PER SPECIAL PROVISIONS SECTION 1-07.23
- NO PARKING ZONE/U-TURN AREA, INSTALL TEMPORARY "NO PARKING" SIGNS AND 4" WHITE TEMP TAPE CROSSHATCH AS APPROVED BY THE ENGINEER
- SIGN
- TYPE 3 BARRICADE (SIGN ATTACHED WHERE NOTED)

DATE	NO.	REVISION		BY	



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HORZ. DATUM: WSPCS, N ZONE, NAD 83/11	VERT. DATUM: NAVD 88
DESIGNED BY: EEO	4/2023

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PHASE 3 - PEDESTRIAN CONTROL
TRAFFIC CONTROL & DETOUR PLAN

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OF
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GENERAL NOTES

1. SEE SPECIAL PROVISIONS SECTIONS 1-07.23, 1-08.0(2), AND 1-10 FOR TRAFFIC CONTROL REQUIREMENTS, WORK HOUR RESTRICTIONS, AND ALLOWABLE INTERSECTION, SIDEWALK, AND CROSSWALK CLOSURES.
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- NO PARKING ZONE/U-TURN AREA, INSTALL TEMPORARY "NO PARKING" SIGNS AND 4" WHITE TEMP TAPE CROSSHATCH AS APPROVED BY THE ENGINEER
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LAKE ST & KIRKLAND AVE
PEDESTRIAN IMPROVEMENTS

PHASE 4 - PEDESTRIAN CONTROL
TRAFFIC CONTROL & DETOUR PLAN

REFERENCE SHEET NO.
SHEET 35 OF 37 SHEETS

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GENERAL NOTES

1. SEE SPECIAL PROVISIONS SECTIONS 1-07.23, 1-08.0(2), AND 1-10 FOR TRAFFIC CONTROL REQUIREMENTS, WORK HOUR RESTRICTIONS, AND ALLOWABLE INTERSECTION, SIDEWALK, AND CROSSWALK CLOSURES.
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12. INSTALL "NO PARKING" SIGNS FOR PARKING STALLS ADJACENT TO ACTIVE WORK ZONE, LOCATIONS TO BE APPROVED BY THE ENGINEER.

TRAFFIC CONTROL LEGEND

- WORK ZONE, INSTALL TEMPORARY FENCE PER SPECIAL PROVISIONS SECTION 1-07.23
- NO PARKING ZONE/U-TURN AREA, INSTALL TEMPORARY "NO PARKING" SIGNS AND 4" WHITE TEMP TAPE CROSSHATCH AS APPROVED BY THE ENGINEER
- SIGN
- TYPE 3 BARRICADE (SIGN ATTACHED WHERE NOTED)

DATE	NO.	REVISION	BY

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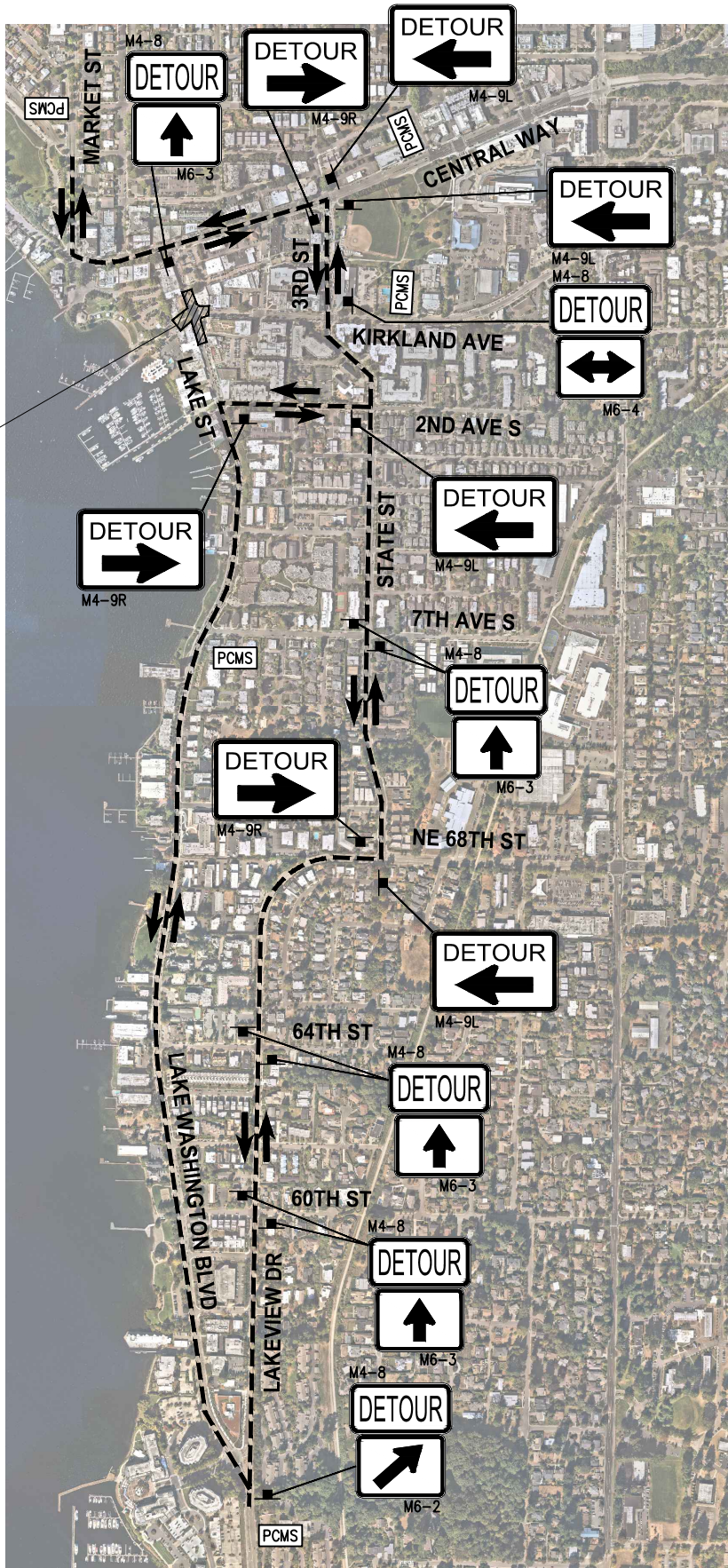
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PEDESTRIAN IMPROVEMENTS

PHASE 5 - PEDESTRIAN CONTROL
TRAFFIC CONTROL & DETOUR PLAN

REFERENCE SHEET NO.
SHEET 36 OF 37 SHEETS



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WORK ZONE, FULL
INTERSECTION CLOSURE



SEE TRAFFIC CONTROL PLAN SHEETS
32-36 FOR GENERAL NOTES

LEGEND

-  SIGN
-  PCMS PORTABLE CHANGEABLE MESSAGE SIGN. SIGNS SHALL BE SOLAR POWERED AND PROGRAMMABLE. PCMS LOCATION AND MESSAGE LANGUAGE SHALL BE AS APPROVED BY THE ENGINEER/OWNER AND ADJUSTED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AS DIRECTED. PCMS BOARDS SHALL BE IN PLACE AND OPERATING 2 WEEKS PRIOR TO ANY WORK. CONTRACTOR IS RESPONSIBLE FOR PROGRAMMING THE APPROVED MESSAGES INTO THE PCMS BOARDS, SET-UP, PLACEMENT, AND REMOVAL UPON PROJECT COMPLETION.

PLAN
NTS



DATE	NO.	REVISION			BY



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PHASE 1 - DETOUR
TRAFFIC CONTROL & DETOUR PLAN

REFERENCE SHEET NO.
SHEET 37 OF 37 SHEETS