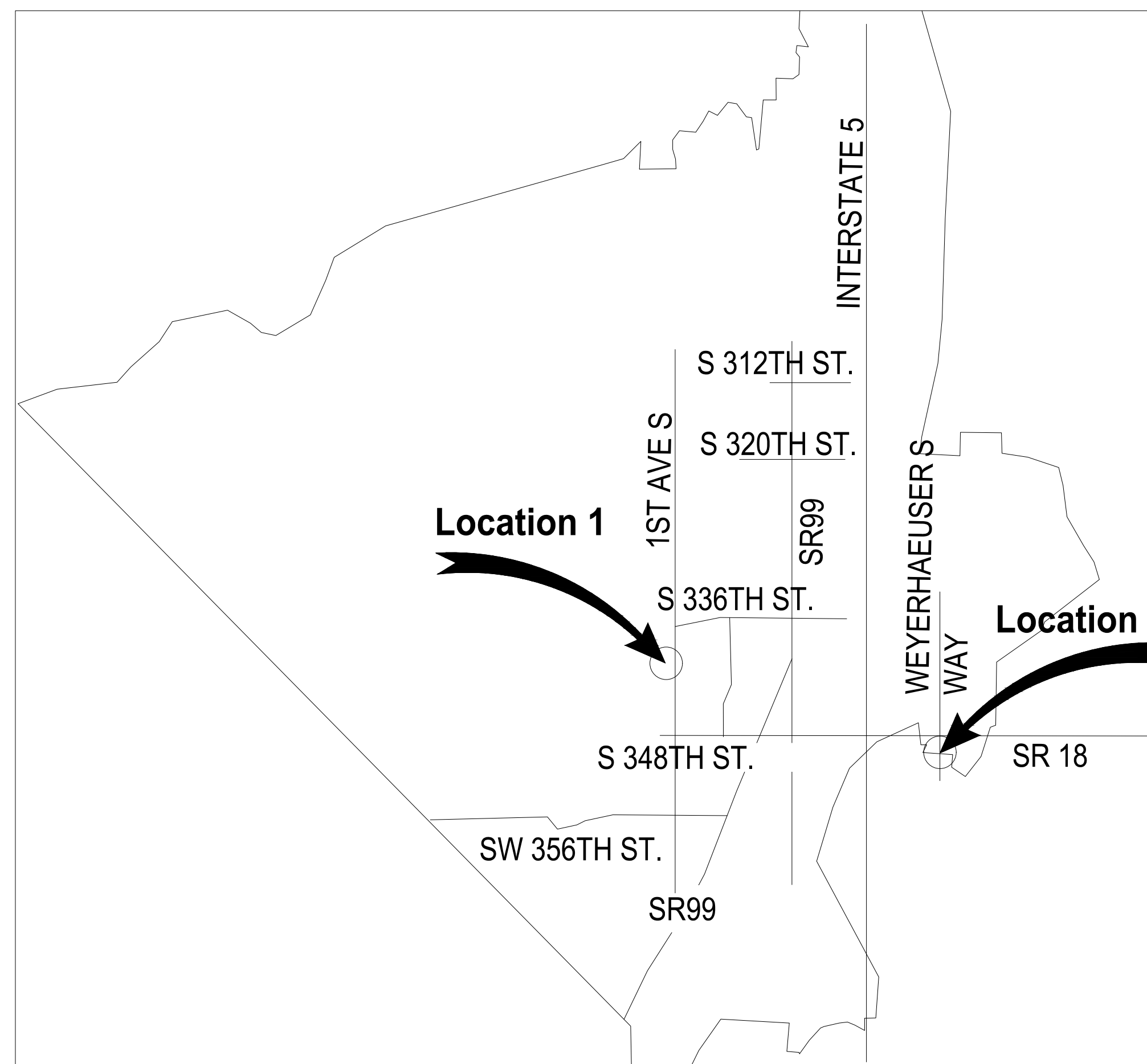


# 2025 PEDESTRIAN CROSSINGS (RRFB'S)

CITY PROJECT #: 36254

TIB #: P-P-113(P03)-1

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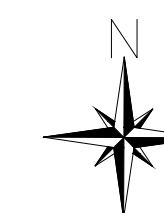


LOCATION 1 :  
1ST WAY SOUTH , NORTH OF S 340TH STREET




LOCATION 2 :  
WEYERHAEUSER WAY S, SOUTH OF S 344TH WAY

APPROVED FOR CONSTRUCTION

*Desiree S. Winkler* 3/28/25  
DESIREE S. WINKLER P.E. DATE  
DEPUTY PUBLIC WORKS DIRECTOR



RFB#:25-003

 33325 8th Avenue South Federal Way, WA 98003-6325 (253) 835-2700 www.federalwaywa.gov	<b>BID SET</b>  Know what's below. Call 811 before you dig.	DRAFTED: DJ MCINTOSH DESIGNED: JOHN COLE REVIEWED: C. MULLEN APPROVED: C. MULLEN	 28-Mar-2025	DRAWING VERSION / REVISION LOG		<b>2025 PEDESTRIAN CROSSINGS (RRFB'S)</b> COVER	CITY PROJECT #: <b>36254</b> SHT. 01 OF 17
				NO.	DATE		

# LEGEND

EXISTING	
MIC	MONUMENT IN CASE
MON	SURFACE MONUMENT
△	PK NAIL
RC	REBAR & CAP
⊗	SPOT SHOT (DESCRIBED)
□	CATCH BASIN
⊙	STORM DRAIN MANHOLE
⊕	YARD DRAIN
⊖	DOWNSPOUT
SD	STORM DRAIN CLEAN-OUT
^	CULVERT
○	SEWER MANHOLE
SS	SEWER CLEAN-OUT
⊖	POWER POLE
⊖	POWER POLE W/UNDERGROUND CONNECT
⊖	POWER POLE WITH LUMINAIRE
⊖	PWR POLE W/LUMINAIRE & UNDGRD CONNECT
⊙	POWER MANHOLE
P	POWER RISER
△	POWER VAULT LID
△	POWER TRANSFORMER
⊕	POWER METER
⊕	POWER OUTLET
⊖	HIGH VOLTAGE POWER POLE
⊖	HIGH VOLTAGE PWR POLE W/UNDGRD CONNECT
⊖	GUY POLE
→	GUY ANCHOR
⊙	TRAFFIC SIGNAL
⊙	TRAFFIC SIGNAL WITH LUMINAIRE
⊙	PEDESTRIAN SIGNAL
⊕	JUNCTION BOX
⊕	TRAFFIC CONTROL CABINET
BPS	BACKUP POWER SUPPLY
⊕	INTERCONNECT CABINET
⊕	ELECTRICAL SERVICE CABINET
⊙	TRAFFIC ATTENUATOR LOOP
⊙	STREET LIGHT (LUMINAIRE)
⊙	LOT LIGHT
⊙	YARD LIGHT
⊙	RAILROAD CROSSING ARM
⊙	RAILROAD CROSSING SIGNAL
⊙	TELEPHONE MANHOLE
⊙	TELEPHONE RISER
⊙	TELEPHONE VAULT LID
⊙	TELEPHONE POLE
⊙	TV MANHOLE
⊙	TV RISER
⊙	TV VAULT LID
⊙	FIBER OPTIC MANHOLE
⊙	FIBER OPTIC VAULT LID
⊙	GAS VALVE
⊙	GAS METER
⊙	GAS MANHOLE
⊙	WATER VALVE
⊙	WATER METER
⊙	WATER MANHOLE
⊙	WATER VAULT LID
⊙	FIRE HYDRANT
⊙	BLOW-OFF
⊙	FIRE DEPARTMENT CONNECT
⊙	POST INDICATOR VALVE
⊙	HOSE BIB
⊙	IRRIGATION CONTROL VALVE
⊙	UTILITY MANHOLE (GENERIC/UNK)
⊙	UTILITY VAULT LID (GENERIC/UNK)
⊙	UTILITY CLEAN-OUT (GENERIC/UNK)
⊙	UTILITY RISER (GENERIC/UNK)
⊙	STAND-PIPE (GENERIC/UNK)
⊙	UTILITY ACCESS (GENERIC/UNK)
⊙	UTILITY ACCESS (GENERIC/UNK)
⊙	BORE SITE (WITH FIELD DESC)
⊙	MONITORING WELL
⊙	GUARD POST
⊙	BOULDER
⊙	SIGN
⊙	MAILBOX (# OF BOXES)
⊙	SHRUB
⊙	STUMP, DIAMETER
⊙	SNAG, DIAMETER (# OF TRUNKS)
⊙	DECIDUOUS TREE, DIA (# OF TRUNKS)
⊙	CONIFEROUS TREE, DIA (# OF TRUNKS)
P	PAINTED POWER
P	RECORD POWER
T	PAINTED TELEPHONE
T	RECORD TELEPHONE
FD	PAINTED FIBER OPTIC
TV	PAINTED TV
W	PAINTED WATER
W	RECORD WATER
G	PAINTED GAS
G	RECORD GAS
OH	OVERHEAD UTILITY LINE (GENERIC)
SD	STORM
S	SEWER
X	FENCE
H	HEDGE (HEIGHT NOTED)
B	BUILDING
S	PAINTED STRIPE
S	PAINTED SKIP STRIPE
S	RAISED-BUTTON SOLID STRIPE
S	RAISED-BUTTON SKIP STRIPE
P	PAINTED STRIPE
P	PAINTED SKIP STRIPE
P	RAISED-BUTTON SOLID STRIPE
P	RAISED-BUTTON SKIP STRIPE
P	EDGE OF PAVEMENT
P	FLOWLINE
P	CONTOUR
P	RIGHT OF WAY LINE
AC	CONCRETE
CHLK	CHAINLINK
DWY	DRIVEWAY
COL	COLUMN
YD	YARD DRAIN
STCR	STRUCTURE
FF	FINISHED FLOOR

PROPOSED	
⊙	MONUMENT
⊙	STORMDRAIN MANHOLE
⊙	CATCH BASIN
⊙	AREA DRAIN
SD	STORMDRAIN CLEAN-OUT
^	CULVERT
⊙	SEWER MANHOLE
⊙	SIGN
MB	MAILBOX
GP	BOLLARD
⊙	BORE / POTHOLE LOCATION
⊙	SHRUB
XX"	DECIDUOUS TREE, DIA (# OF TRUNKS)
XX"	CONIFEROUS TREE, DIA (# OF TRUNKS)
⊙	BOULDER
⊙	STREET LIGHT (LUMINAIRE)
⊙	TRAFFIC SIGNAL, POLE & MAST ARM
⊙	TRAFFIC SIGNAL POLE & MAST ARM W/ LUMINAIRE ARM
⊙	PEDESTRIAN PUSHBUTTON POLE
⊙	TRAFFIC / ILLUM J-BOX
⊙	TRAFFIC CONTROL CABINET
BPS	BACKUP POWER SUPPLY
⊙	ELECTRICAL SERVICE CABINET
⊙	TRAFFIC SIGNAL VEHICLE DETECTION
FO	CITY FIBER OPTIC VAULT / J-BOX
⊙	FESTIVAL OUTLET
⊙	POWER POLE
→	POWER POLE GUY ANCHOR
⊙	POWER POLE W/ LUMINAIRE
P	POWER VAULT LID / J-BOX
△	POWER TRANSFORMER
⊙	POWER METER
T	TELECOMM VAULT / J-BOX
PED	UTILITY PEDESTAL
⊙	GAS VALVE
⊙	GAS METER
⊙	WATER VALVE
⊙	WATER METER
W	WATER VAULT LID
⊙	FIRE HYDRANT
⊙	BLOW-OFF
XXX	CONTOUR
→	DITCH FLOWLINE
---	EDGE OF PAVEMENT
---	CONCRETE CURB & GUTTER
---	SAWCUT
---	LIMITS OF GRADING
SD	STORMDRAIN
UD	UNDERDRAIN
SS	SANITARY SEWER
W	WATER
IRR	IRRIGATION
G	GAS
UE	UNDERGROUND POWER
TEL	TELECOMMUNICATION
OE	OVERHEAD UTILITY LINE
FO	CITY FIBER
C	CUT LINE
F	FILL LINE
X	FENCE - CHAINLINK
X	FENCE - WOOD
CONCRETE	CONCRETE
ASPHALT	ASPHALT
GRAVEL	GRAVEL
ROCKERY WALL	ROCKERY WALL
BLOCK RETAINING WALL	BLOCK RETAINING WALL
GRASS	GRASS
BARK / MULCH	BARK / MULCH
PERMEABLE CONCRETE PAVERS	PERMEABLE CONCRETE PAVERS
DETECTABLE WARNING SURFACE	DETECTABLE WARNING SURFACE
CLEARING AND GRUBBING	CLEARING AND GRUBBING

# ABBREVIATIONS

ABND	ABANDONED	MW	MONITORING WELL
AC	ASPHALT	N	NORTHING/NORTH
AC	ASBESTOS CEMENT WATER PIPE	NO	NUMBER
ACP	ASPHALT CONCRETE PAVEMENT	NTS	NOT TO SCALE
ADA	AMERICANS WITH DISABILITIES ACT	OC	ON CENTER
AP	ANGLE POINT	OD	OUTSIDE DIAMETER
AVE	AVENUE	OH	OVERHEAD UTILITIES
BLDG	BUILDING	PC	POINT OF CURVATURE
BMP	BEST MANAGEMENT PRACTICE	PCC	POINT OF CURVE ON CURVE
BOW	BACK OF WALK	PE	POLYETHYLENE
CB	CATCH BASIN	PG	PERFORMANCE GRADE
CDF	CONTROLLED DENSITY FILL	PI	POINT OF INTERSECTION
CI	CAST IRON	PIV	POST INDICATOR VALVE
CL	CENTERLINE	POB	POINT OF BEGINNING
CL	CLASS	POC	POINT OF CONNECTION
CO	CLEANOUT	POE	POINT OF ENDING
CONC	CONCRETE	PRC	POINT OF REVERSE CURVATURE
CONT	CONTAINER	PT	POINT OF TANGENCY
DCVA	DOUBLE CHECK VALVE ASSEMBLY	PVC	POLYVINYL CHLORIDE
DI	DUCTILE IRON	PVI	POINT OF VERTICAL INTERSECTION
DIA #	DIAMETER	R	RADIUS
CFW	CITY OF FEDERAL WAY	RJ	RESTRAINED JOINT
CSBC	CRUSHED SURFACING BASE COURSE	RT	RIGHT
E	EASTING/EAST	S	SLOPE/SOUTH
EL	ELEVATION	SD	STORM DRAIN
ELEV	ELEVATION	SDP	STORM DRAIN PIPE
EOP	EDGE OF PAVEMENT	SEW	SEWER
EX	EXISTING	SHT	SHEET
EXIST	EXISTING	SSMH	SANITARY SEWER MANHOLE
FDC	FIRE DEPARTMENT CONNECTION	ST	STREET
FG	FINISHED GRADE	STA	STATION
FL	FLANGE	STD	STANDARD
FL	FLOWLINE	T	TANGENT LENGTH
HORIZ	HORIZONTAL	T1	TYPE 1 CATCH BASIN
HMA	HOT MIX ASPHALT	T2	TYPE 2 CATCH BASIN
ICV	IRRIGATION CONTROL VALVE	TOC	TOP OF CURB
ID	INSIDE DIAMETER	TOG	TOP OF GRATE
IE	INVERT ELEVATION	TYP	TYPICAL
L	LENGTH OF CURVE	VC	VERTICAL CURVE
LT	LEFT	VERT	VERTICAL
LF	LINEAR FEET	VLT	VAULT
LP	LOW POINT	W	WEST / WITH
MAX	MAXIMUM	WAT	WATER
MIN	MINIMUM	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
MH	MANHOLE		
MIC	MONUMENT IN CASE		
MJ	MECHANICAL JOINT		

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Know what's below.  
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DRAFTED: DJ MCINTOSH  
DESIGNED: JOHN COLE  
REVIEWED: C. MULLEN  
APPROVED: C. MULLEN

CHRISTINE J. MULLEN  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
28-411-2025

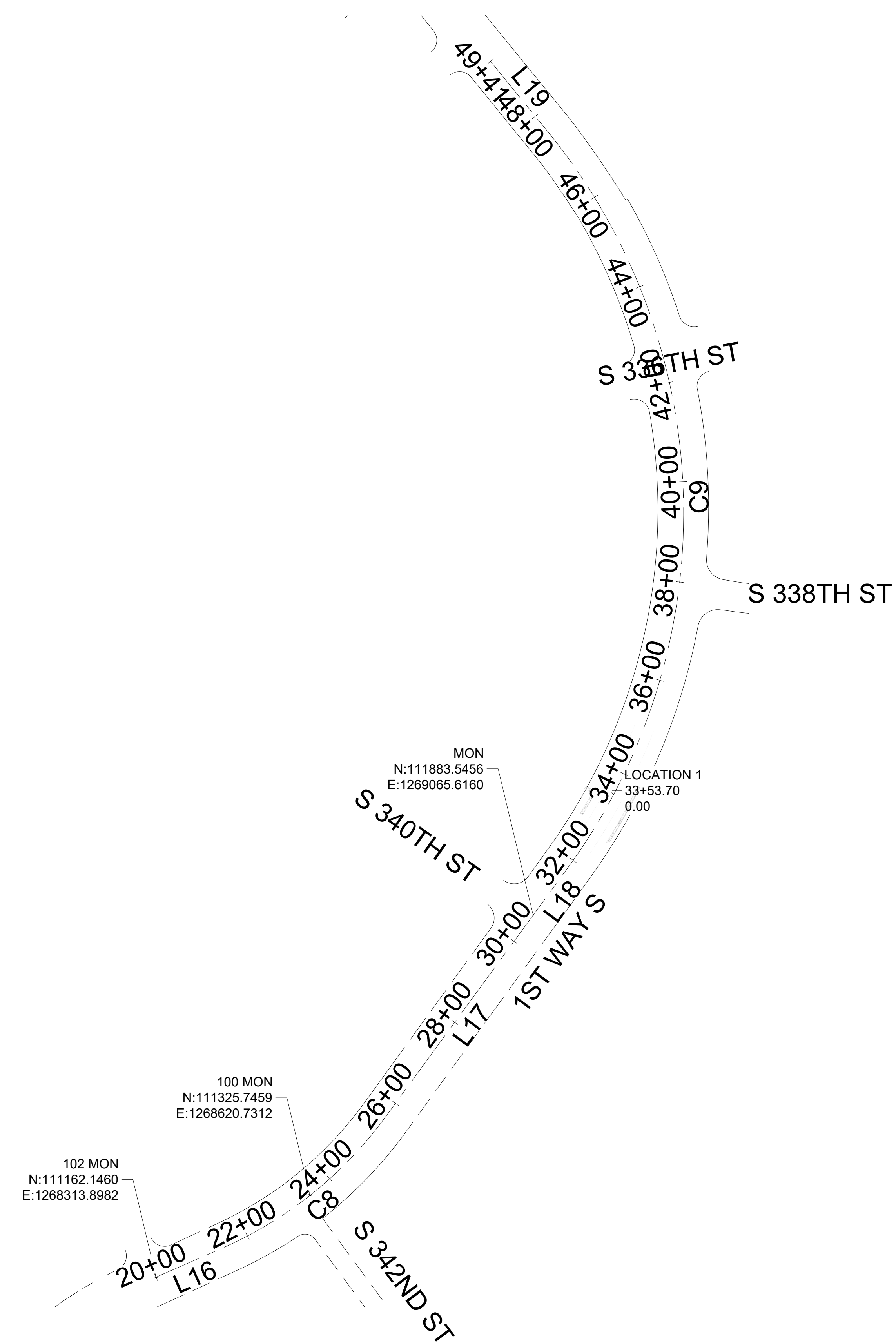
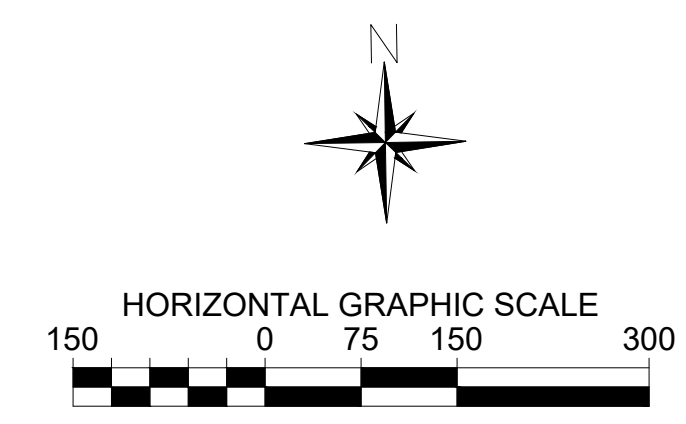
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**2025 PEDESTRIAN CROSSINGS (RRFB'S)**

LEGEND

CITY PROJECT #:	
36254	
SHT.	02
OF	17

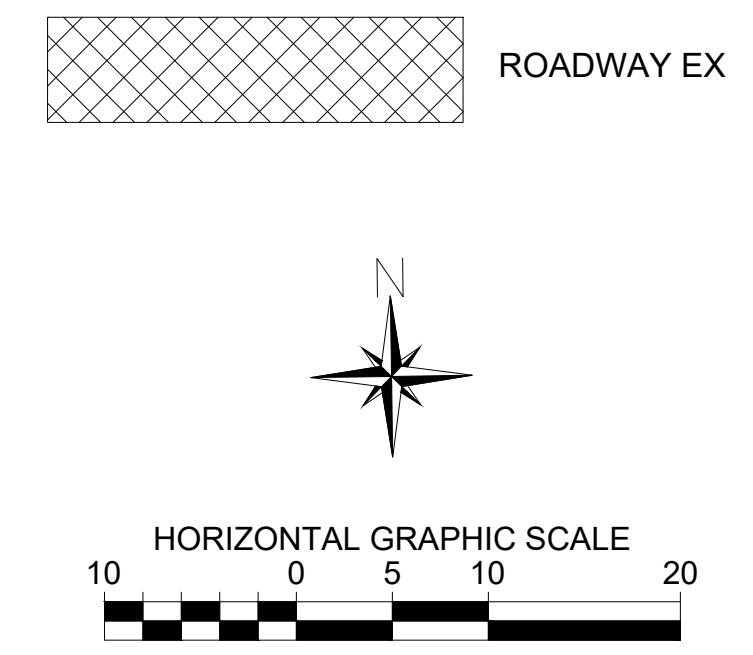
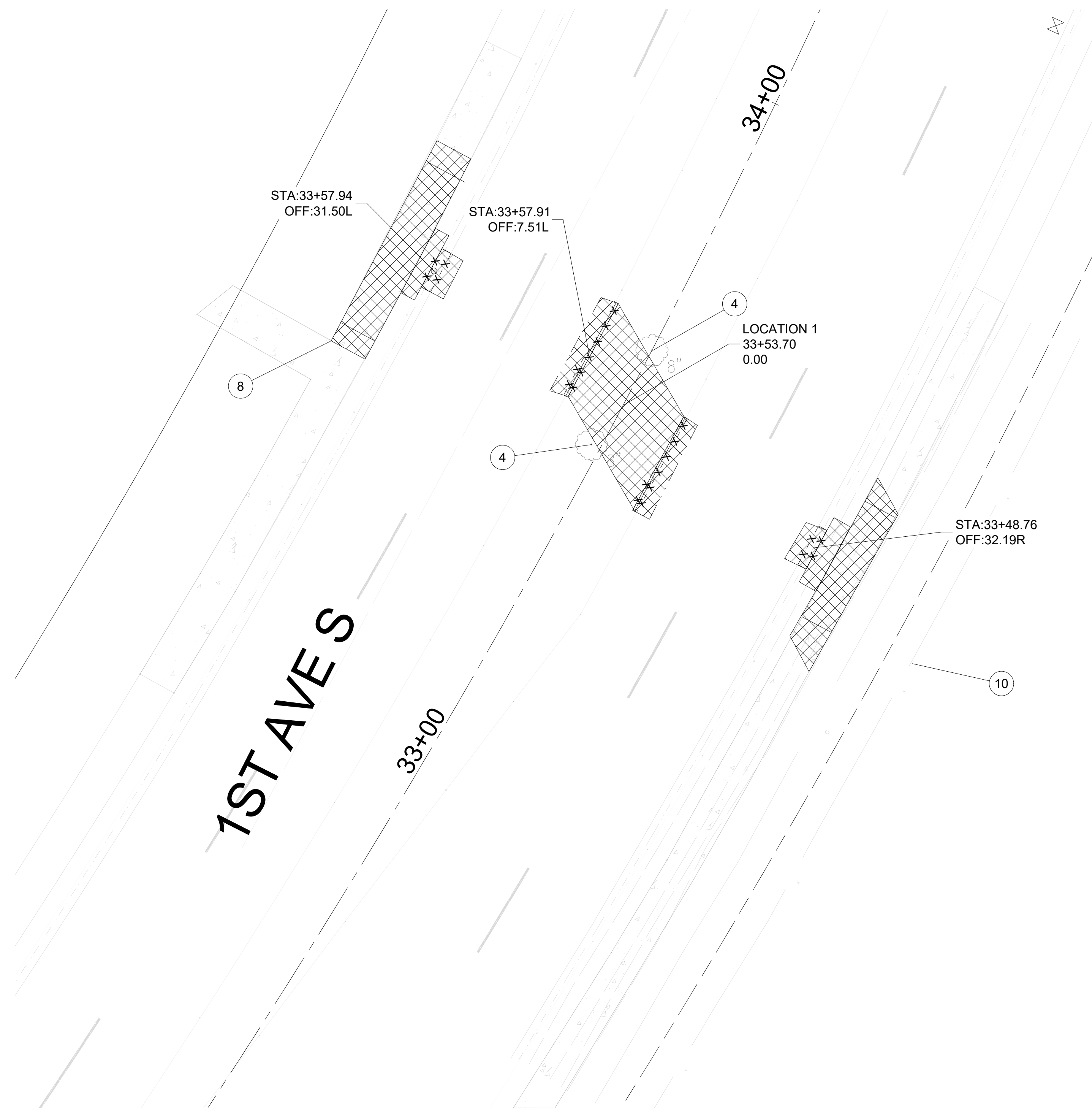




1ST WAY S										
SEGMENT	START STA	END STA	DELTA	RADIUS	LENGTH	BEARING	START NORTHING	START EASTING	END NORTHING	END EASTING
L16	20+00.00	21+44.10	N/A	N/A	144.10'	N66° 20' 00.00"E	111162.15'	1268313.90'	111219.99'	1268445.88'
C8	21+44.10	25+68.55	30.3991 (d)	800.00'	424.45'	N/A	111219.99'	1268445.88'	111483.22'	1268772.50'
L17	25+68.55	30+64.71	N/A	N/A	496.16'	N36° 12' 42.60"E	111483.22'	1268772.50'	111883.54'	1269065.62'
L18	30+64.71	31+80.05	N/A	N/A	115.34'	N36° 12' 42.60"E	111883.54'	1269065.62'	111976.60'	1269133.75'
C9	31+80.05	47+58.28	75.3551 (d)	1200.00'	1578.23'	N/A	111976.60'	1269133.75'	113443.04'	1269096.23'
L19	47+58.28	49+41.33	N/A	N/A	183.05'	N39° 08' 35.84"W	113443.04'	1269096.23'	113585.01'	1268980.68'

CONTROL POINTS				
POINT #	RAW DESCRIPTION	ELEVATION	NORTHING	EASTING
102	MON	202.03	111162.15	1268313.90
100	MON	201.83	111325.75	1268620.73
	MON		111883.54	1269065.62

DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION



**SITE PREPARATION NOTES:**

- ① INSTALL INLET PROTECTION PER WSDOT STD PLAN I-40.20-00.
- ② PROTECT EXISTING UTILITY.
- ③ RELOCATE EXISTING SIGN. REFER TO PAVEMENT MARKING AND SIGNAGE PLANS.
- ④ REMOVE EXISTING TREE.
- ⑤ TREE TRIM TO 14 FEET HEIGHT STREET SIDE.
- ⑥ PROTECT EXISTING TREE TO REMAIN.
- ⑦ REMOVE EXISTING PAVEMENT MARKING.
- ⑧ REMOVE EXISTING LIGHT STANDARD. REFER TO RRFB PLANS.
- ⑨ REPLACE EXISTING JUNCTION BOX IN PLACE. REFER TO RRFB PLANS.
- ⑩ PROTECT EXISTING FENCE.

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DESIGNED: JOHN COLE  
REVIEWED: C. MULLEN  
APPROVED: C. MULLEN

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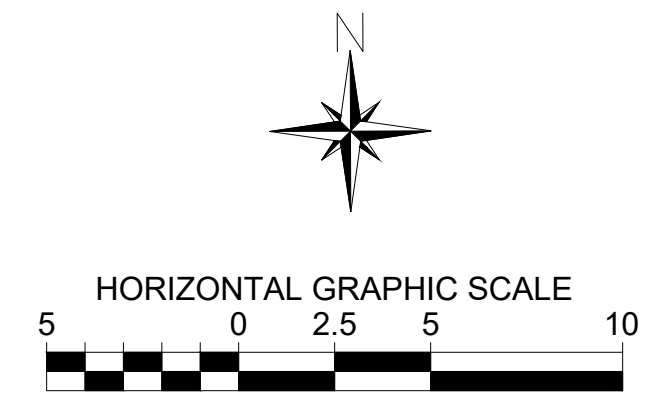
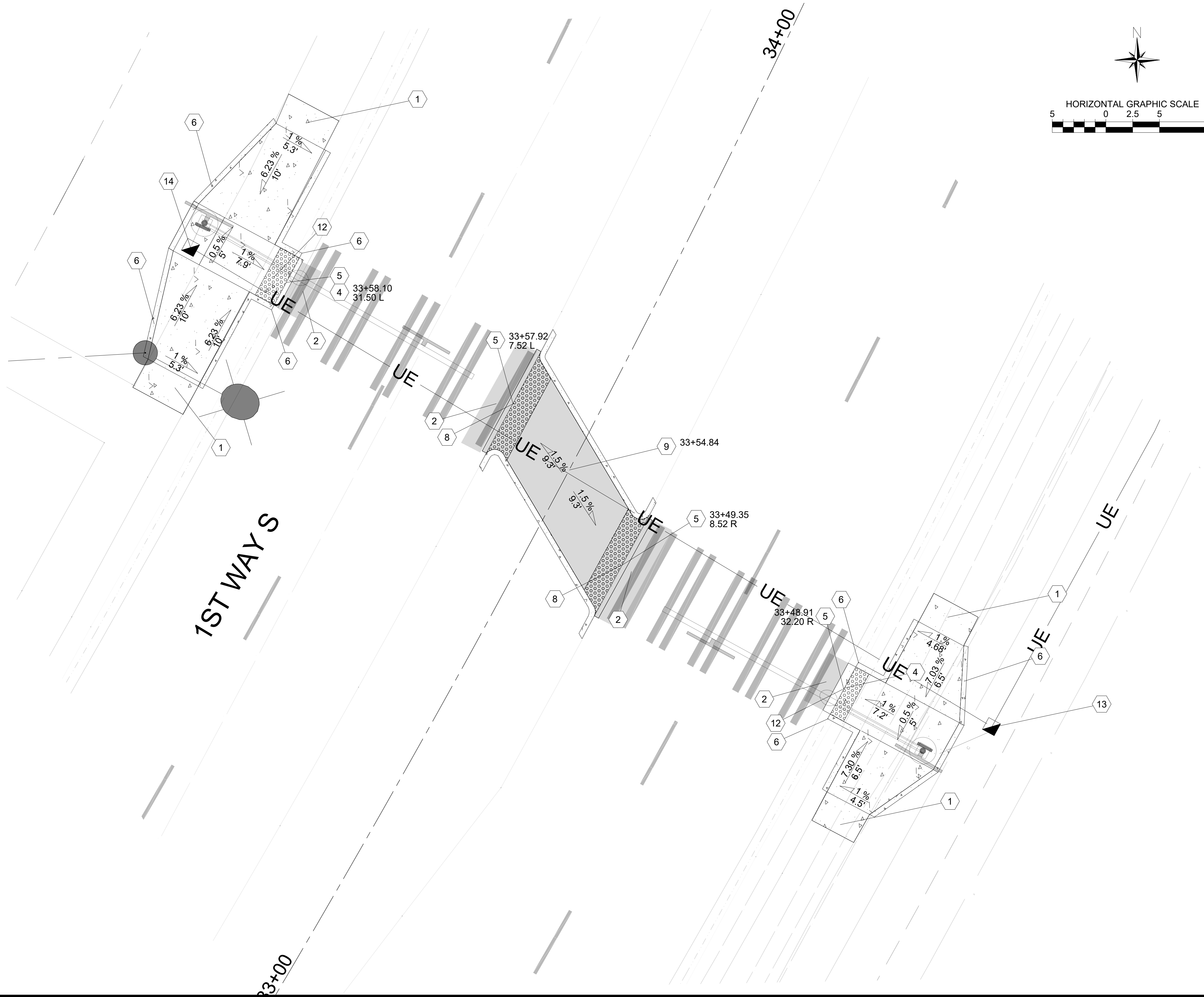
**SITE PREP AND ESC**

1ST WAY SOUTH , NORTH OF S 340TH STREET

CITY PROJECT #:  
**36254**

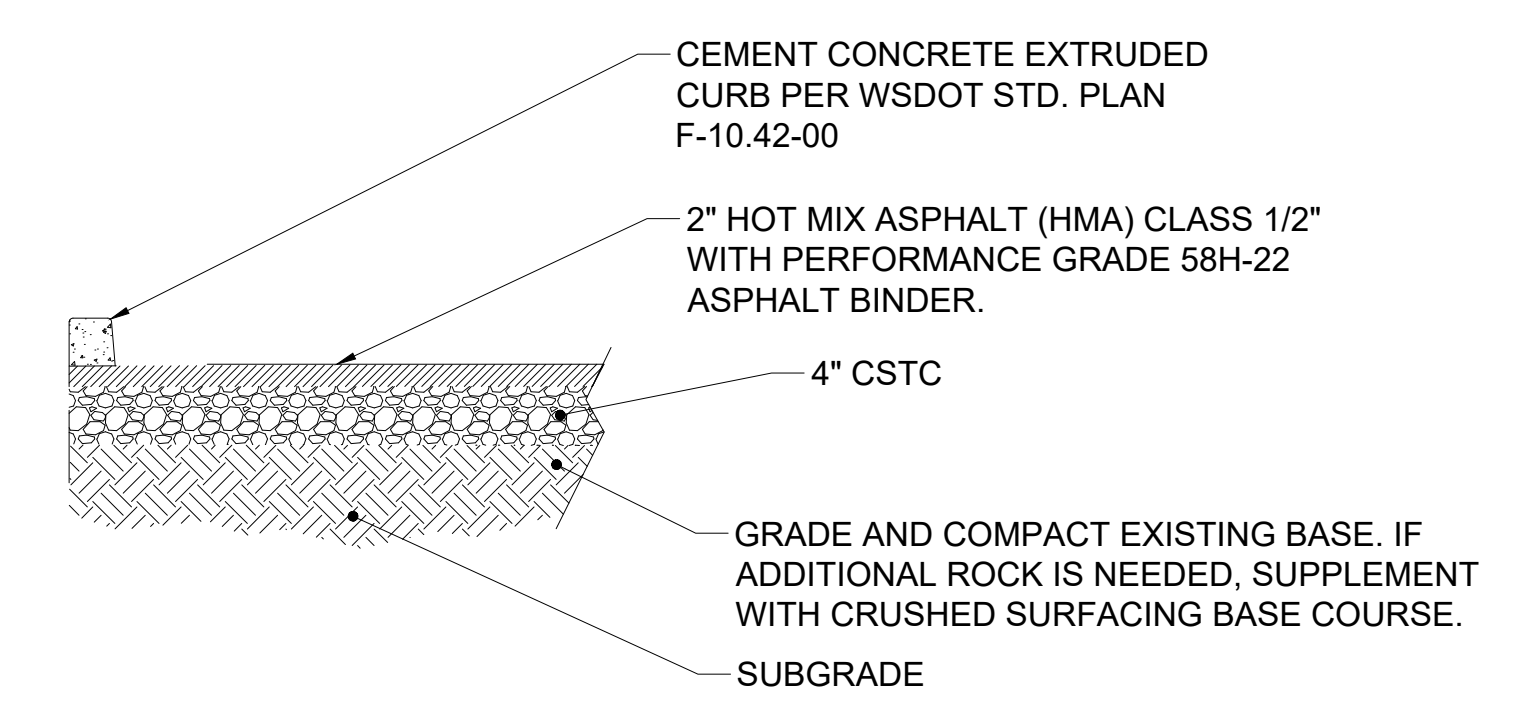
SHT. **04**  
OF **17**





- PAVING AND GRADING NOTES:**
- ① CEMENT CONCRETE SIDEWALK PER CITY OF FEDERAL WAY DWG NO FW.F30.10.
  - ② HMA PAVEMENT PER DETAIL.
  - ③ BACKFILL WITHIN CURBING: 2" HMA PAVEMENT OVER 4" CSTC.
  - ④ CEMENT CONCRETE CURB RAMP TYP COMBINATION PER WSDOT STD. PLAN F-40.13.3
  - ⑤ CEMENT CONCRETE CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-04
  - ⑥ CEMENT CONCRETE PEDESTRIAN CURB PER WSDOT STD. PLAN F-10.12-04
  - ⑦ CEMENT CONCRETE EXTRUDED CURB PER WSDOT STD. PLAN F-10.42-00
  - ⑧ SURFACE APPLIED DETECTABLE WARNING SURFACE. LOCATE DETECTABLE WARNING AT FACE OF CURB. REFER TO SPECIAL PROVISIONS.
  - ⑨ PEDESTRIAN REFUGE ISLAND AND CROSSWALK - MID-BLOCK PER CITY OF FEDERAL WAY STD. DETAIL FW.J24.40. DIMENSIONS AS SHOWN ON STD. DETAIL FW.J24.40 UNLESS NOTED OTHERWISE ON PLAN. SEE CROSS SECTION BELOW.
  - ⑩ 4" DEPTH TOPSOIL AND SEEDED LAWN.
  - ⑪ 4" DEPTH TOPSOIL AND 2" DEPTH BARK MULCH.
  - ⑫ CAST IN PLACE DETECTABLE WARNING SURFACE, YELLOW TRUNCATED DOMES.
  - ⑬ TYPE 2 JUNCTION BOX PER WSDOT STD. PLAN J-40.10.04
  - ⑭ TYPE 1 JUNCTION BOX PER WSDOT STD. PLAN J-40.10.04

**PEDESTRIAN REFUGE ISLAND CROSS SECTION DETAIL**



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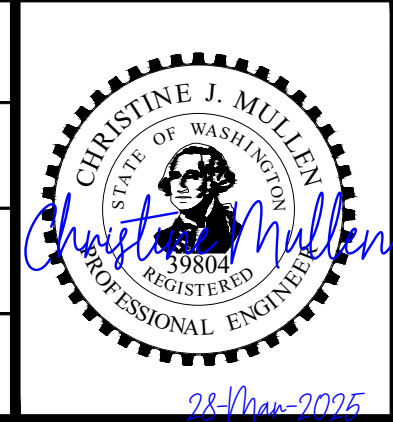
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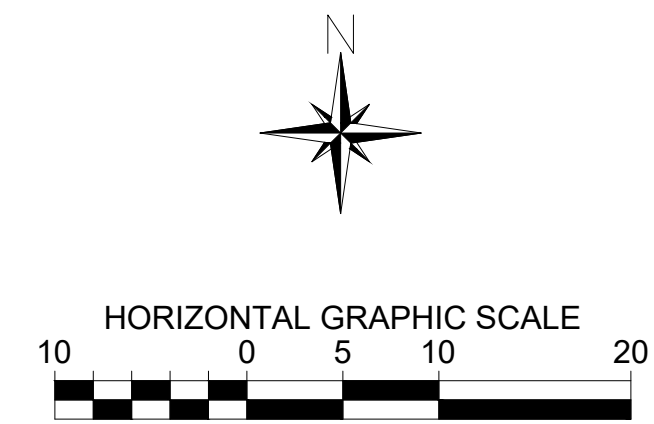
**2025 PEDESTRIAN CROSSINGS (RRFB'S)**

**PAVING AND GRADING PLAN 1**

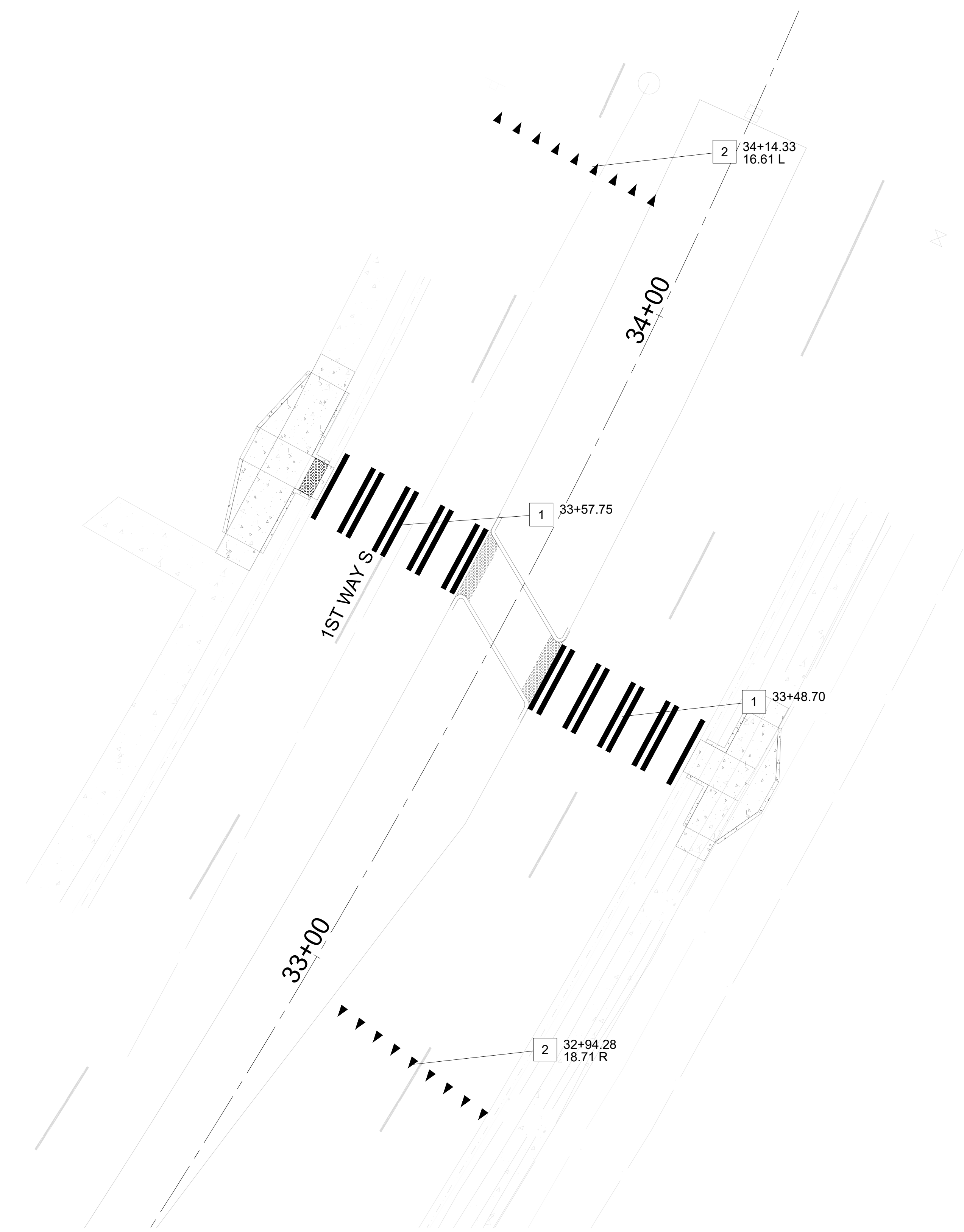
1ST WAY SOUTH , NORTH OF S 340TH STREET

CITY PROJECT #:  
**36254**

SHT. **05**  
OF **17**



- PAVEMENT MARKING NOTES:**
- 1 PLASTIC CROSSWALK LINE PER CFW DETAIL FW.M15.10 (MATERIAL TYPE A)
  - 2 PLASTIC TYPE 2 YIELD LINE SYMBOLS PER WSDOT STD PLAN M-24.60-04 LOCATED MINIMUM 50' IN ADVANCE OF MARKED CROSSWALK.
  - 3 28" TUBULAR MARKER. REFER TO SPECIAL PROVISIONS.
  - 4 TYPE 2Y RPM. REFER TO SPECIAL PROVISIONS.



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**2025 PEDESTRIAN CROSSINGS (RRFB'S)**

**PAVEMENT MARKING 1**

1ST WAY SOUTH , NORTH OF S 340TH STREET

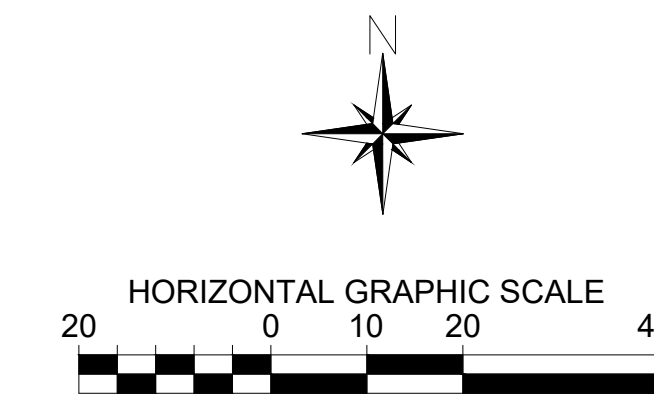
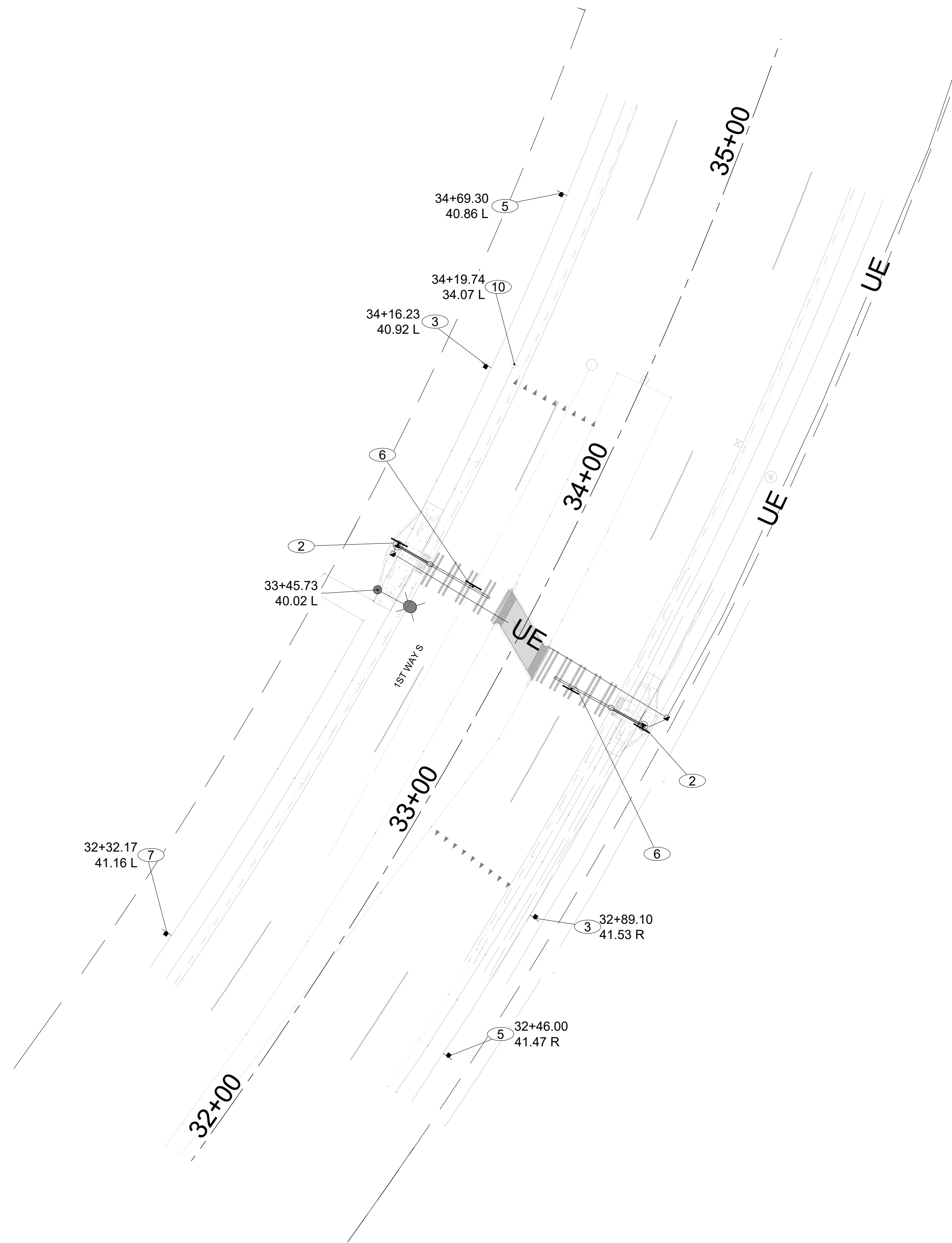
CITY PROJECT #:  
**36254**

SHT. **06**  
OF **17**



**SIGNAGE NOTES:**

- 1 RRFB STANDARD ASSEMBLY. REFER TO RRFB PLANS.
- 2 TYPE III SIGNAL STANDARD. REFER TO RRFB PLANS
- 3 YIELD HERE TO PEDESTRIANS SIGN (R1-5A)(36"X36"). ALIGN WITH YIELD LINE SYMBOLS.
- 4 PEDESTRIAN SIGN (W11-2)(FYG)(36"X36").
- 5 PEDESTRIAN SIGN (W11-2)(FYG)(36"X36").
- 6 RRFB W11-2 (MOD). REFER TO RRFB PLANS
- 7 SIGN TO BE RE-LOCATED 100' SW OF PRIVATE SIDEWALK AND WOOD POST REPLACED WITH METAL POST.



**GENERAL SIGNAGE NOTES:**

- 1. INSTALL SIGNS IN ACCORDANCE WITH FEDERAL WAY STD. DETAILS FW.G20.30 AND FW.G24.50.



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**2025 PEDESTRIAN CROSSINGS (RRFB'S)**

**SIGNAGE PLAN 1**

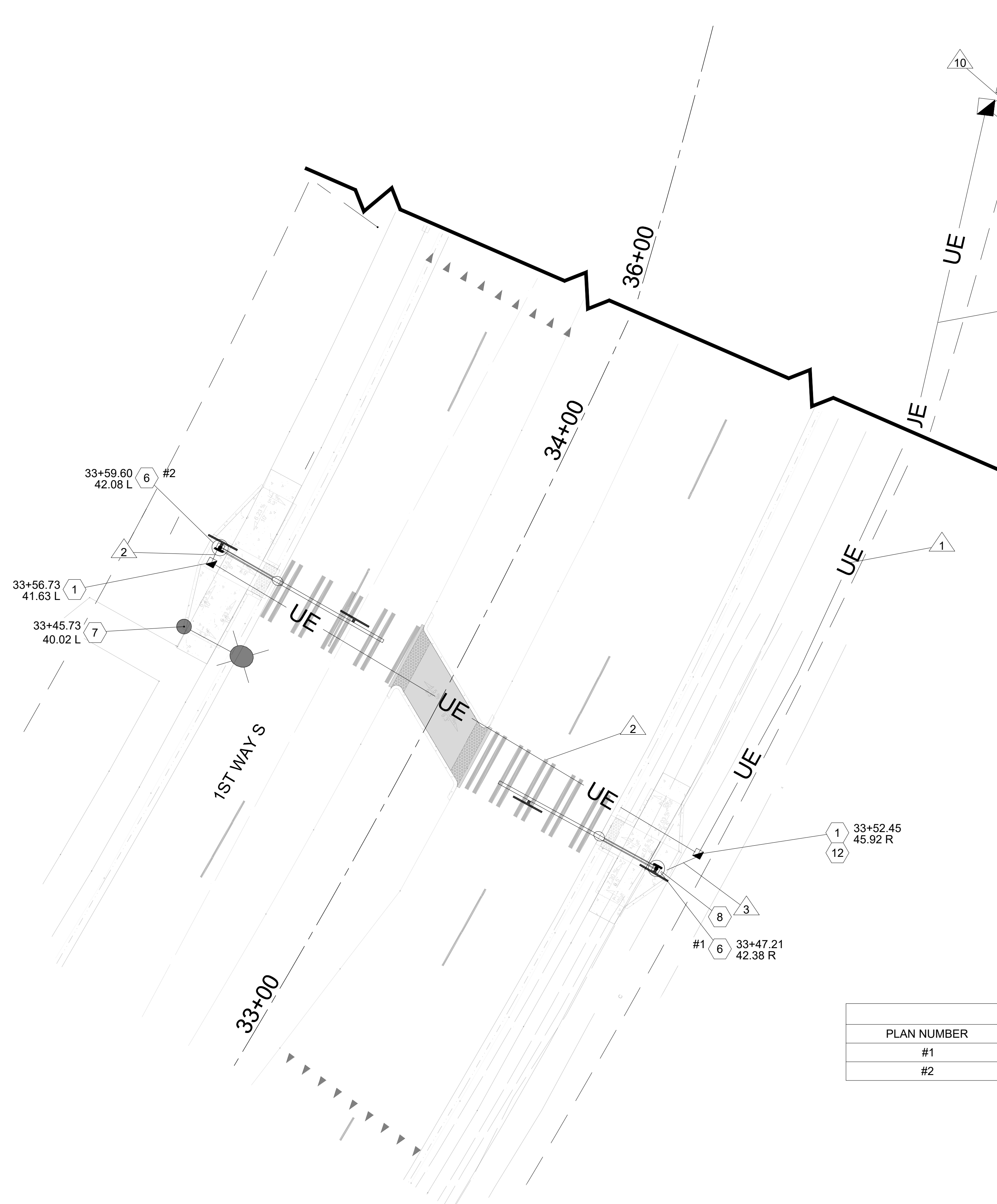
1ST WAY SOUTH , NORTH OF S 340TH STREET

CITY PROJECT #:

36254

SHT. 07

OF 17



**RRFB CONSTRUCTION NOTES:**

- ① TYPE 2 JUNCTION BOX PER WSDOT STD. PLAN J-40.10.04
- ② TYPE 1 JUNCTION BOX PER WSDOT STD. PLAN J-40.10.04
- ③ SERVICE CABINET PER CFW STD. DETAIL FW.J10.21
- ④ REMOVE EXISTING JUNCTION BOX AND RESET TYPE 2 JUNCTION BOX.
- ⑤ RRFB STANDARD ASSEMBLY. REFER TO RRFB DETAIL
- ⑥ TYPE III SIGNAL STANDARD. REFER TO RRFB DETAIL
- ⑦ COORDINATE WITH PSE FOR LIGHT STANDARD REMOVAL
- ⑧ INSTALL RRFB CONTROLLER ON POLE. SEE RRFB DETAIL.
- ⑨ INSTALL NEW LUMINAIRE PER FEDERAL WAY STD. DETAIL FWJ33.10
- ⑩ PULL EXISTING WIRING BACK TO NEAREST JUNCTION BOX TO THE SOUTH. INTERCEPT EXISTING CONDUIT AND INSTALL NEW TYPE 1 JUNCTION BOX.
- ⑪ GROUND MOUNTED TRANSFORMER (#31240-162924) AND POWER VAULT. COORDINATE WITH PSE FOR POWER CONNECTION POINT AND ANY ADDITIONAL REQUIREMENTS.
- ⑫ SPLICE ILLUMINATION CONDUCTORS

WIRING SCHEDULE									
RUN NO.	CONDUIT SIZE/TYPE	PPB	BEACONS	POWER	ILLUM	GROUND	RRFB	PULL TAPE	COMMENT
		2CS	4C	#6	#8	#8	#8		
①	NEW PVC 2"				2	1		1	
②	NEW PVC 2"				2	1	2	1	
③	NEW PVC 2"	1	1		2	1		1	
④	NEW PVC 2"	1	1			1	2	1	
⑩	NEW PVC 2"			3					SHALL BE PER PSE-MINIMUM 3-#6 REQUIRED
⑩	NEW PVC 2"	1	1		2	1		1	
⑩	NEW PVC 2"					1	2		
⑩	NEW PVC 2"					1		1	SPARE

NOTE 1. GROUND WIRE SHALL BE EQUAL TO OR LARGER THAN LARGEST CONDUCTOR IN CONDUIT.  
 NOTE 2. NEW CIRCUIT WIRING SHALL BE ALUMINUM. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE IS A DISCREPANCY BETWEEN THE WIRING SCHEDULE AND THE FIELD CONDITIONS.  
 NOTE 3. CONDUITS INSTALLED UNDER TRAVELLED WAY SHALL BE SCHEDULE 80. ALL OTHER CONDUITS MAY BE SCHEDULE 40.  
 NOTE 4. CONTRACTOR SHALL APPLY FOR COORDINATE WITH PSE FOR POWER CONNECTION.

LUMINAIRE SCHEDULE			SERVICE NO. 4143		
PLAN NUMBER	ID NUMBER	SERVICE - CIRCUIT	TYPE - WATTS	MASTARM	MTG HEIGHT
#1	4143-1-SL1-1	1WAY/338-1	II -90	9 Ft	35 Ft
#2	4143-1-SL1-2	1WAY/338-1	II -90	9 Ft	35 Ft

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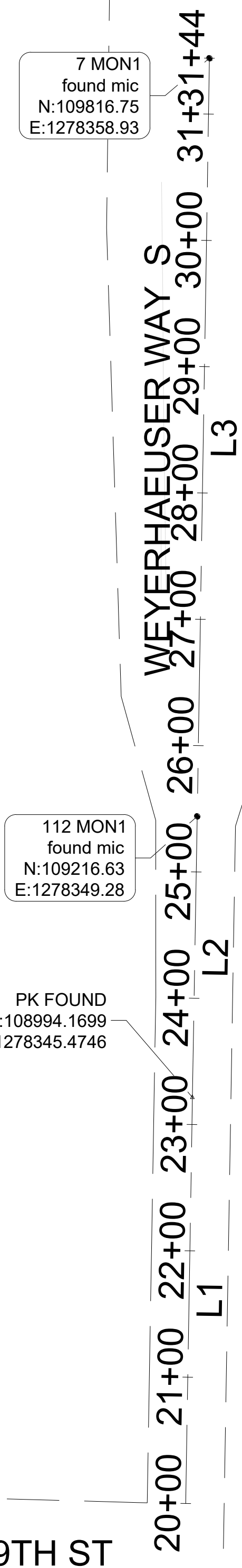
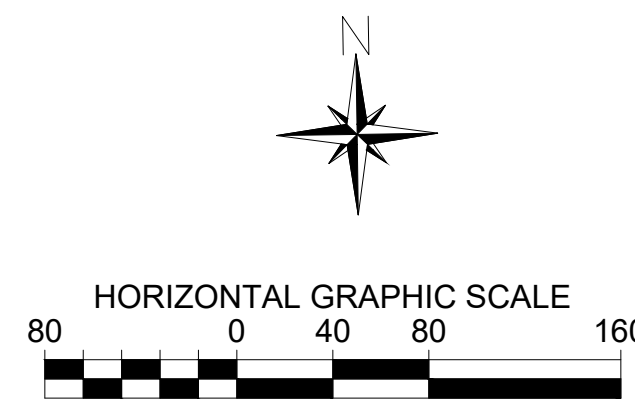


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NO.	DATE	REVISION

**2025 PEDESTRIAN CROSSINGS (RRFB'S)**  
**RRFB SYSTEM 1**  
 1ST WAY SOUTH , NORTH OF S 340TH STREET

CITY PROJECT #:  
**36254**  
 SHT. **08**  
 OF **17**



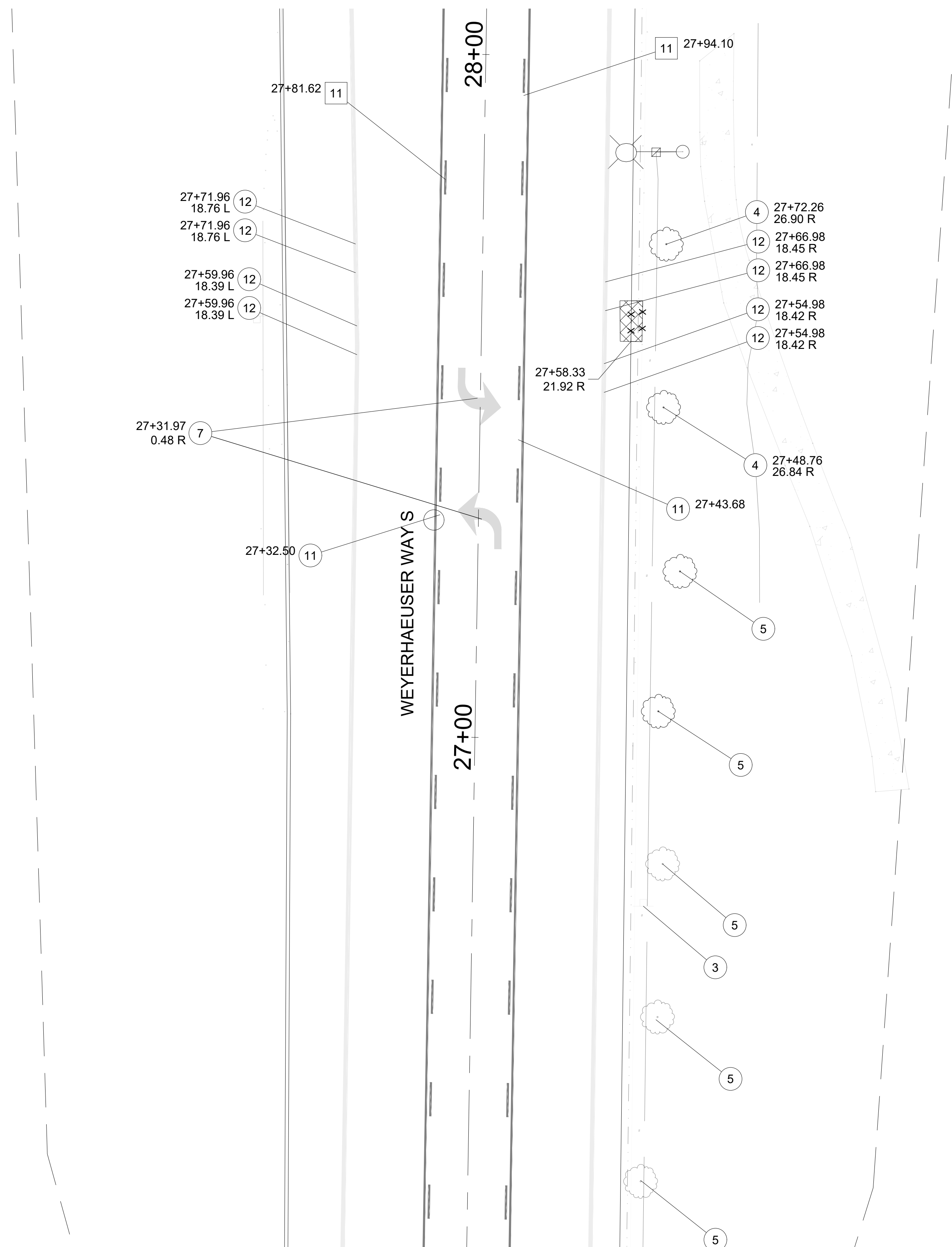


S 344TH WAY

S 349TH ST

WEYERHAEUSER WAY S										
SEGMENT	START STA	END STA	DELTA	RADIUS	LENGTH	BEARING	START NORTHING	START EASTING	END NORTHING	END EASTING
L1	20+00.00	23+21.53	N/A	N/A	321.53'	N0° 56' 47.00"E	108672.68'	1278340.16'	108994.17'	1278345.47'
L2	23+21.53	25+44.02	N/A	N/A	222.49'	N0° 58' 47.71"E	108994.17'	1278345.47'	109216.63'	1278349.28'
L3	25+44.02	31+44.23	N/A	N/A	600.21'	N0° 55' 16.70"E	109216.63'	1278349.28'	109816.75'	1278358.93'

CONTROL POINTS				
POINT #	RAW DESCRIPTION	ELEVATION	NORTHING	EASTING
7	MON 1	322.065	109816.7549	1278358.9304
112	MON 1	321.054	109216.6250	1278349.2796
	FOUND PK		108994.1699	1278345.4746



**SITE PREPARATION NOTES:**

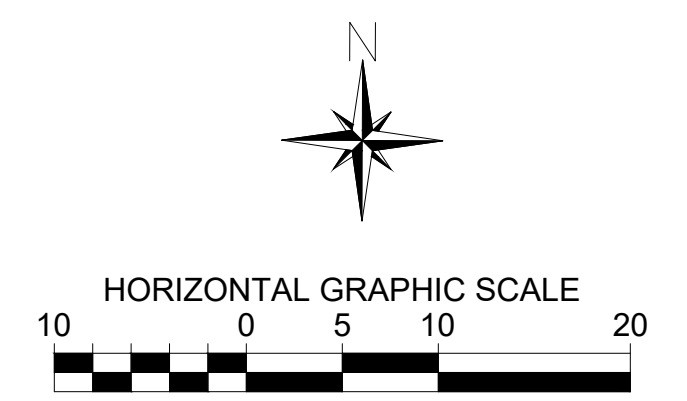
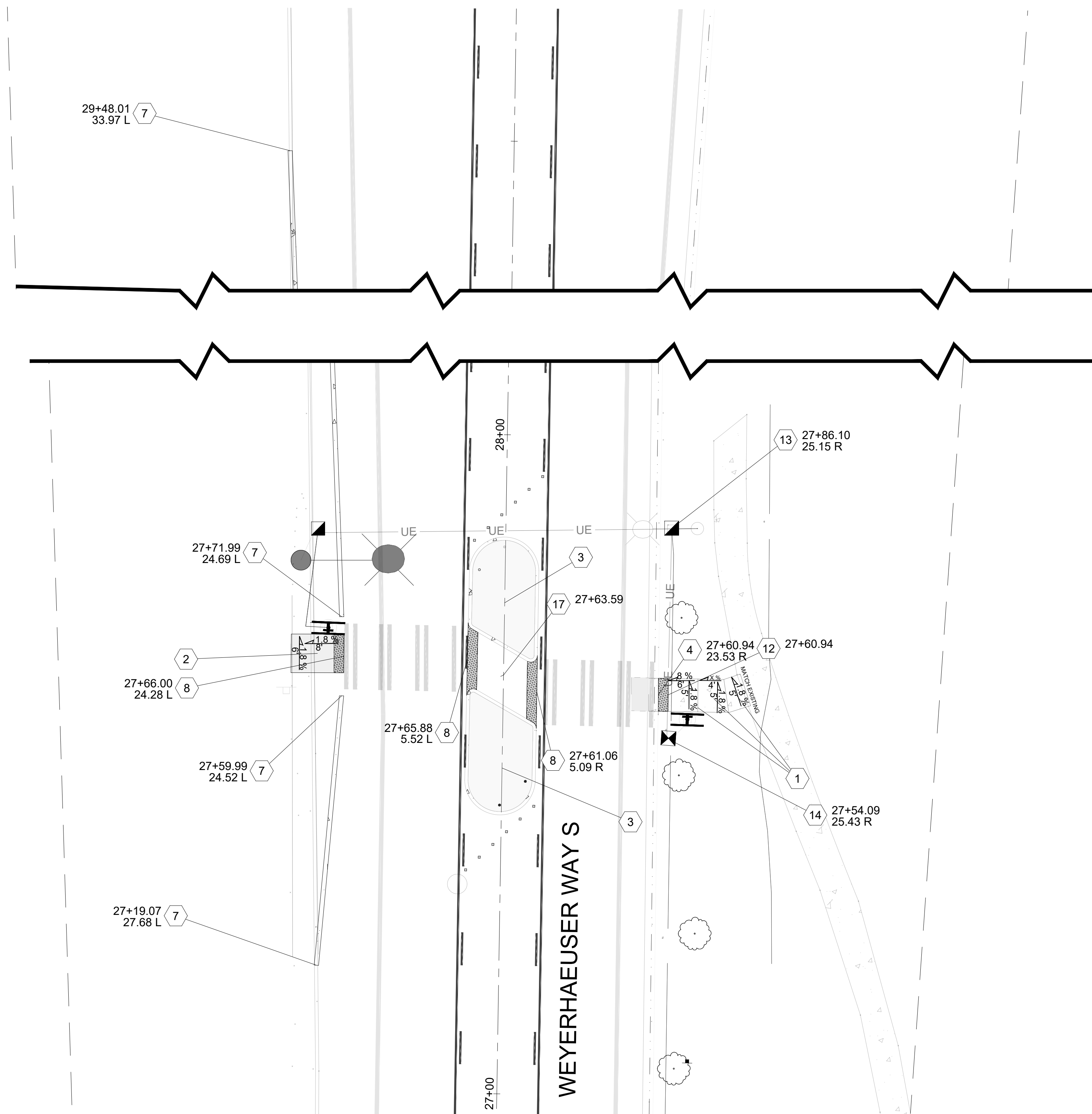
- ① INSTALL INLET PROTECTION PER WSDOT STD PLAN I-40.20-00.
- ② PROTECT EXISTING UTILITY.
- ③ RELOCATE EXISTING SIGN. REFER TO PAVEMENT MARKING AND SIGNAGE PLANS.
- ④ REMOVE EXISTING TREE.
- ⑤ TREE TRIM TO 14 FEET HEIGHT STREET SIDE.
- ⑥ PROTECT EXISTING TREE TO REMAIN.
- ⑦ REMOVE EXISTING PAVEMENT MARKING.
- ⑧ REMOVE EXISTING LIGHT STANDARD. REFER TO RRFB PLANS.
- ⑨ REPLACE EXISTING JUNCTION BOX IN PLACE. REFER TO RRFB PLANS.
- ⑩ PROTECT EXISTING FENCE.
- ⑪ REMOVE EXISTING TWO WAY LEFT TURN LANE LINE
- ⑫ REMOVE EXISTING EDGE LINE

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**PAVING AND GRADING NOTES:**

- ① CEMENT CONCRETE SIDEWALK PER CITY OF FEDERAL WAY DWG NO FW.F30.10.
- ② HMA PAVEMENT PER DETAIL.
- ③ BACKFILL WITHIN CURBING: 2" HMA PAVEMENT OVER 4" CSTC.
- ④ CEMENT CONCRETE CURB RAMP TYP COMBINATION PER WSDOT STD. PLAN F-40.13.3
- ⑤ CEMENT CONCRETE CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-04
- ⑥ CEMENT CONCRETE PEDESTRIAN CURB PER WSDOT STD. PLAN F-10.12-04
- ⑦ CEMENT CONCRETE EXTRUDED CURB PER WSDOT STD. PLAN F-10.42-00
- ⑧ SURFACE APPLIED DETECTABLE WARNING SURFACE. LOCATE DETECTABLE WARNING AT FACE OF CURB. REFER TO SPECIAL PROVISIONS.
- ⑨ PEDESTRIAN REFUGE ISLAND AND CROSSWALK - MID-BLOCK PER CITY OF FEDERAL WAY STD. DETAIL FW.J24.40. DIMENSIONS AS SHOWN ON STD. DETAIL FW.J24.40 UNLESS NOTED OTHERWISE ON PLAN. SEE CROSS SECTION BELOW.
- ⑩ 4" DEPTH TOPSOIL AND SEEDED LAWN.
- ⑪ 4" DEPTH TOPSOIL AND 2" DEPTH BARK MULCH.
- ⑫ CAST IN PLACE DETECTABLE WARNING SURFACE, YELLOW TRUNCATED DOMES.
- ⑬ TYPE 2 JUNCTION BOX PER WSDOT STD. PLAN J-40.10.04
- ⑭ TYPE 1 JUNCTION BOX PER WSDOT STD. PLAN J-40.10.04



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**2025 PEDESTRIAN CROSSINGS (RRFB'S)**

**PAVING AND GRADING PLAN 2**

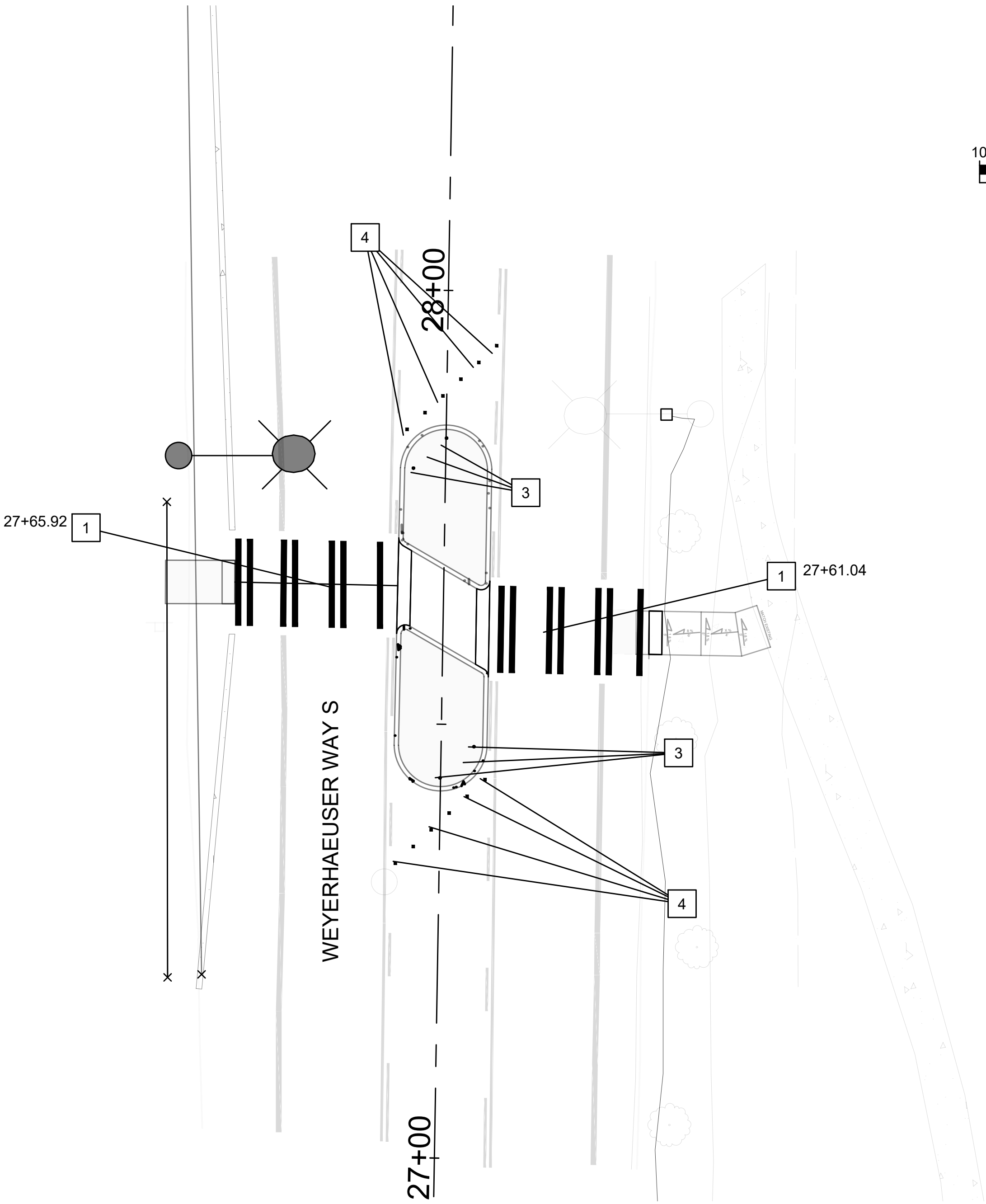
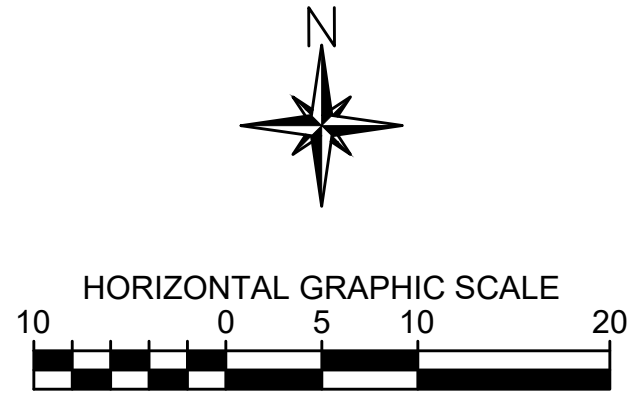
**WEYERHAEUSER WAY S, SOUTH OF S 344TH WAY**

CITY PROJECT #:  
**36254**

SHT. **11**  
OF **17**

**PAVEMENT MARKING NOTES:**

- 1 PLASTIC CROSSWALK LINE PER CFW DETAIL FW.M15.10 (MATERIAL TYPE A)
- 2 PLASTIC TYPE 2 YIELD LINE SYMBOLS PER WSDOT STD PLAN M-24.60-04 LOCATED MINIMUM 50' IN ADVANCE OF MARKED CROSSWALK.
- 3 28" TUBULAR MARKER. REFER TO SPECIAL PROVISIONS.
- 4 TYPE 2Y RPM. REFER TO SPECIAL PROVISIONS.



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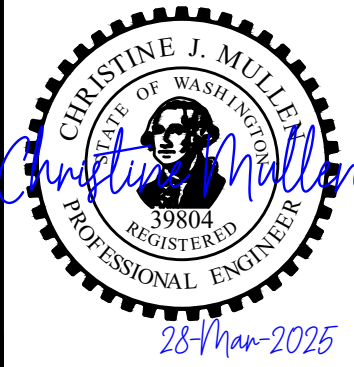
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**2025 PEDESTRIAN CROSSINGS (RRFB'S)**

**PAVEMENT MARKING 2**

WEYERHAEUSER WAY S, SOUTH OF S 344TH WAY

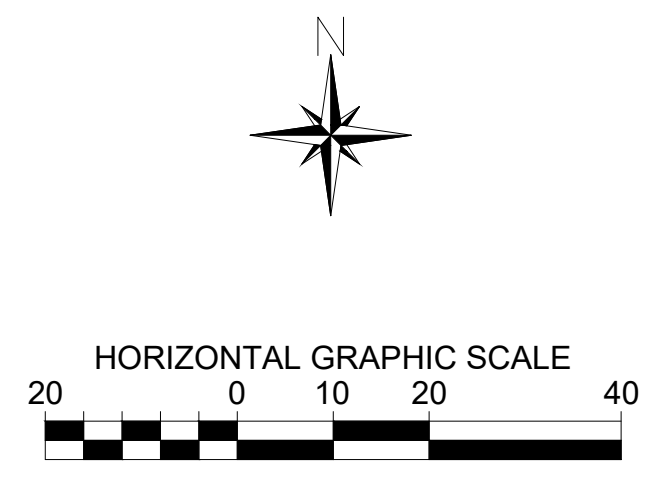
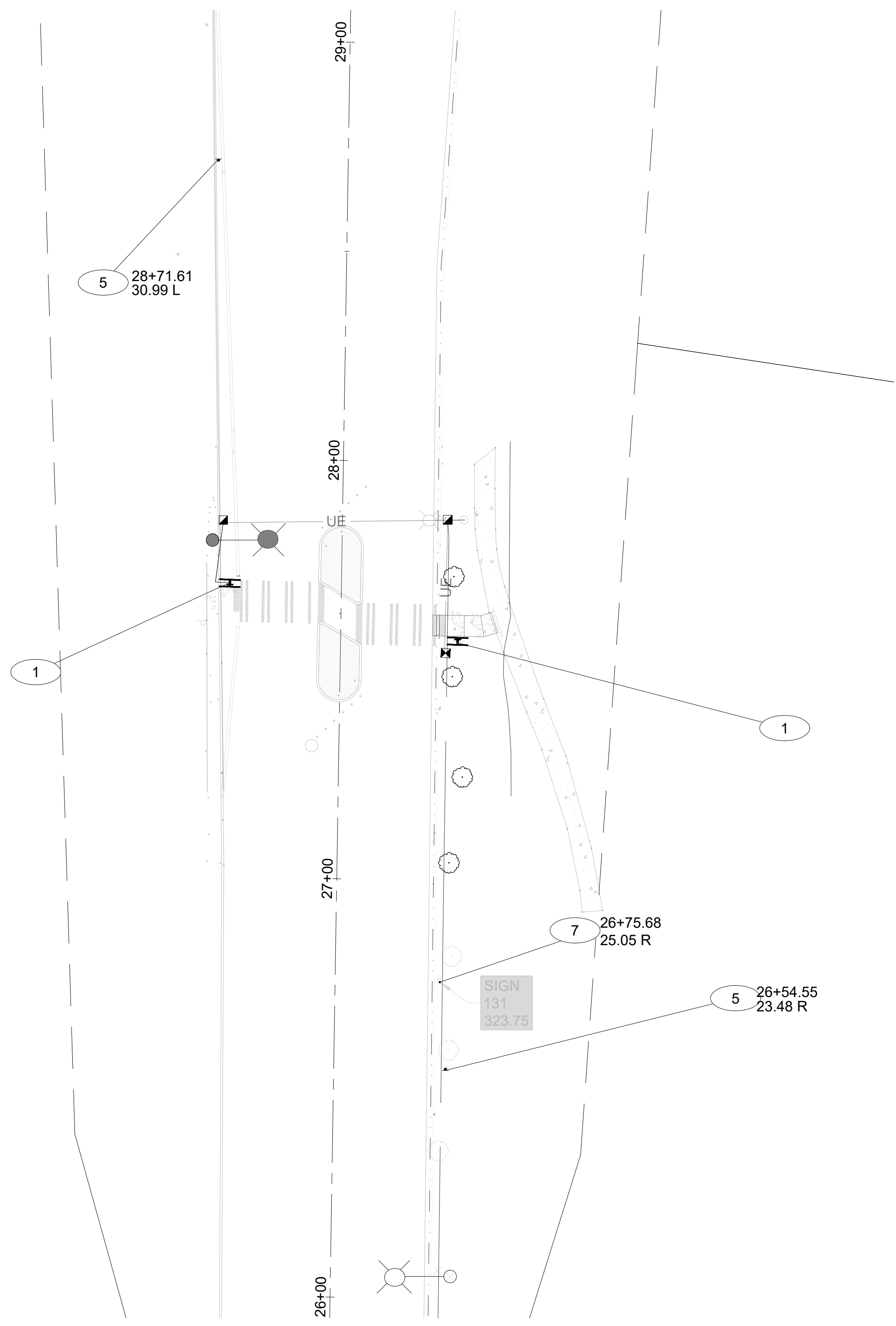
CITY PROJECT #:

36254

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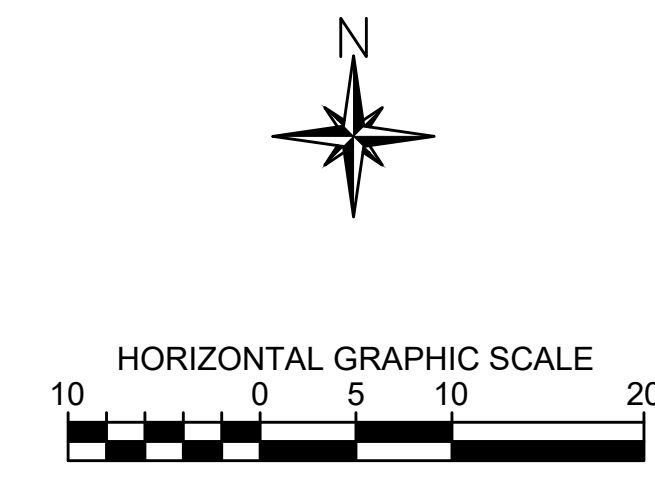
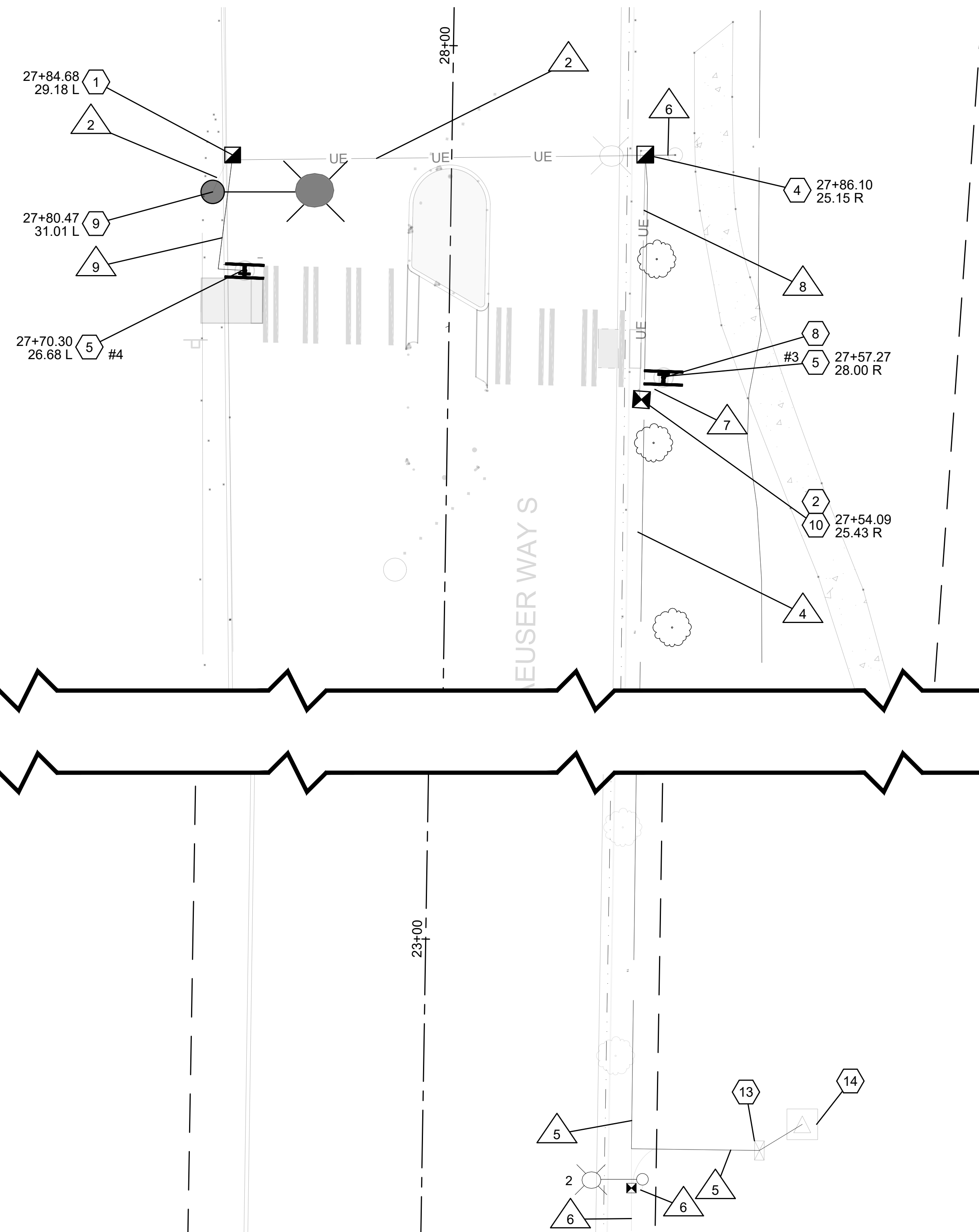
**SIGNAGE NOTES:**

- 1 RRFB STANDARD ASSEMBLY. REFER TO RRFB PLANS.
- 2 TYPE III SIGNAL STANDARD. REFER TO RRFB PLANS
- 3 YIELD HERE TO PEDESTRIANS SIGN (R1-5A)(36"X36"). ALIGN WITH YIELD LINE SYMBOLS.
- 4 PEDESTRIAN SIGN (W11-2)(FYG)(30"X30").
- 5 PEDESTRIAN SIGN (W11-2)(FYG)(30"X30").
- 6 RRFB W11-2 (MOD). REFER TO RRFB PLANS
- 7 SIGN TO BE RE-LOCATED 100' SW OF PEDESTRIAN CROSSING SIGN.

**GENERAL SIGNAGE NOTES:**

- 1. INSTALL SIGNS IN ACCORDANCE WITH FEDERAL WAY STD. DETAILS FW.G20.30 AND FW.G24.50.

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- RRFB CONSTRUCTION NOTES:**
- ① TYPE 2 JUNCTION BOX PER WSDOT STD. PLAN J-40.10.04
  - ② TYPE 1 JUNCTION BOX PER WSDOT STD. PLAN J-40.10.04
  - ③ SERVICE CABINET PER CFW STD. DETAIL FW.J10.21
  - ④ REMOVE EXISTING JUNCTION BOX AND RESET TYPE 2 JUNCTION BOX.
  - ⑤ RRFB STANDARD ASSEMBLY. REFER TO RRFB DETAIL
  - ⑥ TYPE III SIGNAL STANDARD. REFER TO RRFB DETAIL
  - ⑦ COORDINATE WITH PSE FOR LIGHT STANDARD REMOVAL
  - ⑧ INSTALL RRFB CONTROLLER ON POLE. SEE RRFB DETAIL.
  - ⑨ INSTALL NEW LUMINAIRE PER FEDERAL WAY STD. DETAIL FWJ33.10 DISCONNECT EX. CONDUCTORS AND PULL EXISTING WIRING BACK TO NEAREST JUNCTION BOX TO THE SOUTH. INTERCEPT EXISTING CONDUIT AND INSTALL NEW TYPE 1 JUNCTION BOX AT LOCATION SHOWN. PULL EXISTING AND NEW CONDUCTORS BACK TO THE LIGHT STANDARD TO THE NORTH. SPLICE ILLUM CONDUCTORS FOR NEW LIGHT STANDARD AND RECONNECT CONDUCTORS TO EXISTING LIGHT STANDARD.
  - ⑬ EXISTING SERVICE CABINET #4860. INSTALL NEW 15 AMP SINGLE-POLE BREAKER AND LABEL AS 'RRFB' ON DEADFRONT. CONNECT RRFB CONDUCTORS TO NEW CIRCUIT.
  - ⑭ EXISTING GROUND-MOUNTED PSE TRANSFORMER.

WIRING SCHEDULE									
RUN NO.	CONDUIT SIZE/TYPE	PPB	BEACONS	POWER	ILLUM	GROUND	RRFB	PULL TAPE	COMMENT
		2CS	4C	#6	#8	#8	#8		
①	NEW PVC 2"				2	1		1	
	NEW PVC 2"					1	2	1	
②	NEW PVC 2"				2	1		1	
	NEW PVC 2"	1	1			1		1	
	PVC 2"				2	1		1	
	PVC 2"	1	1			1	2	1	
⑤	EX. PVC 2"				EX. 2	EX. 1	NEW 2	NEW 1	
⑥	EX. PVC 2"				EX. 2	EX. 1			
⑦	NEW PVC 2"	NEW 1	NEW 1				NEW 2	NEW 1	
⑧	EX. PVC 2"	NEW 1	NEW 1		EX. 2	EX. 1		NEW 1	
⑨	NEW PVC 2"	NEW 1	NEW 1					NEW 1	

NOTE 1. GROUND WIRE SHALL BE EQUAL TO OR LARGER THAN LARGEST CONDUCTOR IN CONDUIT.

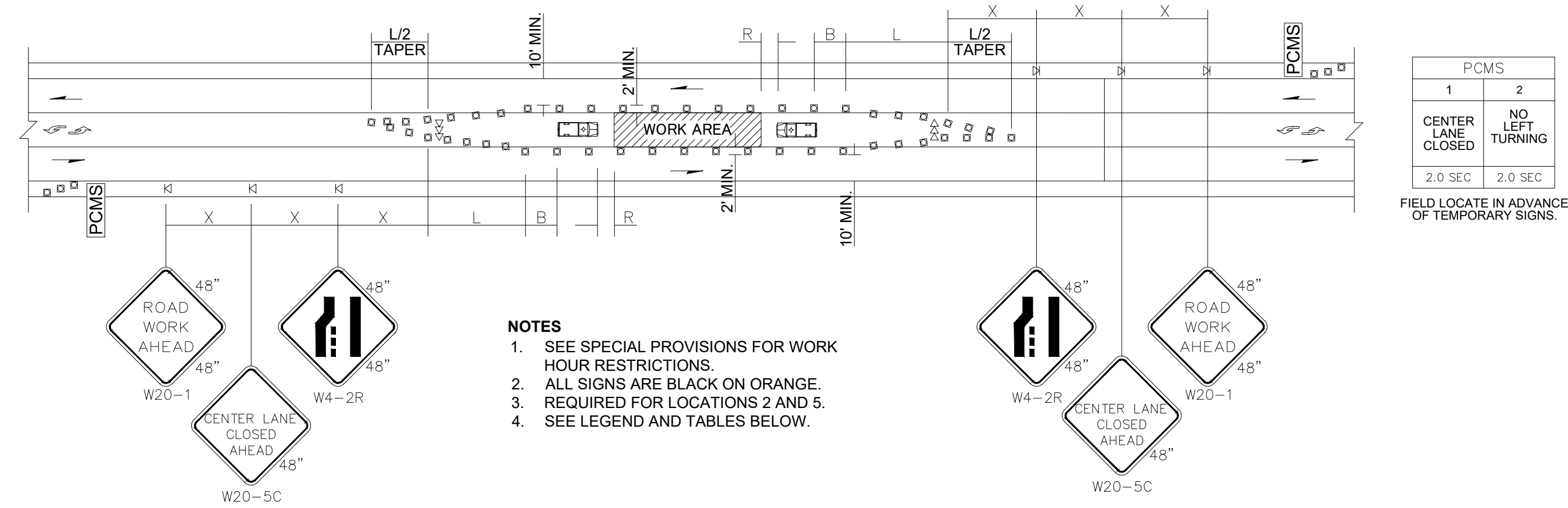
NOTE 2. NEW CIRCUIT WIRING SHALL BE ALUMINUM. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE IS A DISCREPANCY BETWEEN THE WIRING SCHEDULE AND THE FIELD CONDITIONS. GROUND CONDUCTOR SHALL BE COPPER.

NOTE 3. CONDUITS INSTALLED UNDER TRAVELLED WAY SHALL BE SCHEDULE 80. ALL OTHER CONDUITS MAY BE SCHEDULE 40.

NOTE 4. CONTRACTOR SHALL APPLY FOR COORDINATE WITH PSE FOR POWER CONNECTION.

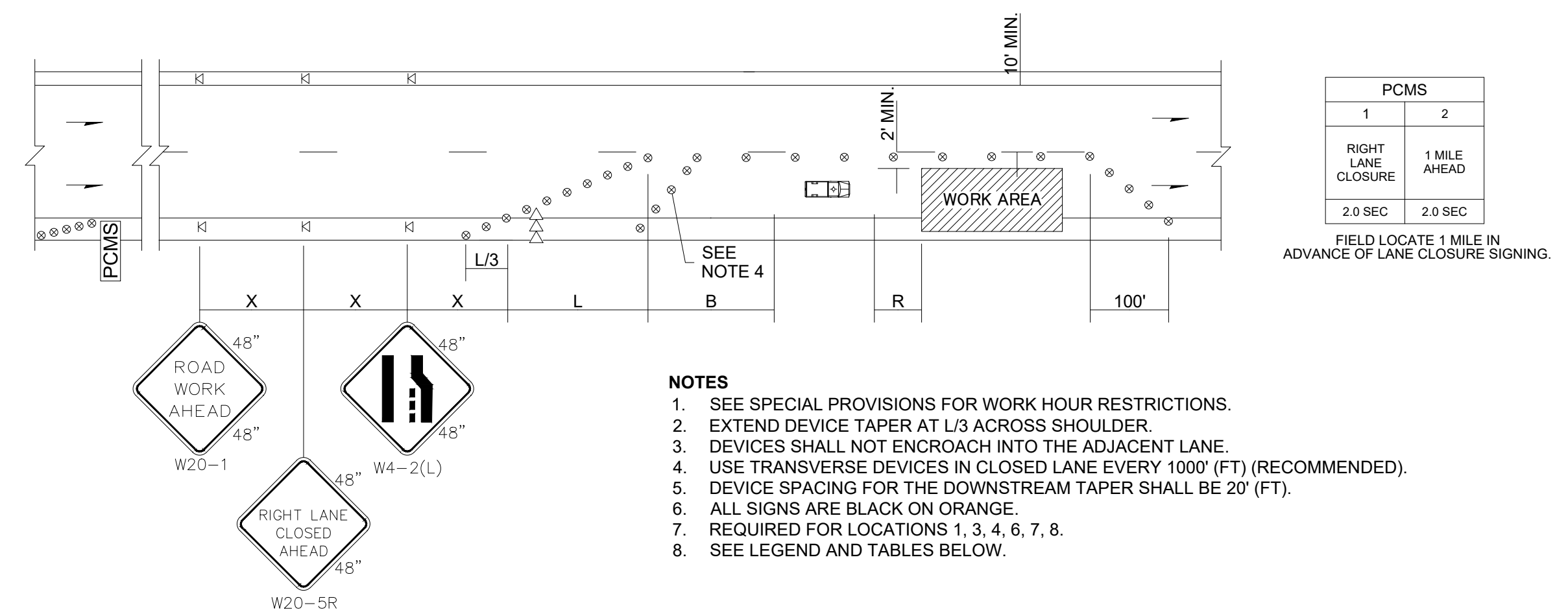
LUMINAIRE SCHEDULE			SERVICE NO. 4860		
PLAN NUMBER	ID NUMBER	SERVICE - CIRCUIT	TYPE - WATTS	MASTARM	MTG HEIGHT
#1(NOT SHOWN)	4860-1-SL1-1(EX)	WEY/348-1	EX.	EX.	EX.
#2	4860-1-SL1-2(EX)	WEY/348-1	EX.	EX.	EX.
#3(NOT SHOWN)	4860-1-SL1-3(EX)	WEY/348-1	EX.	EX.	EX.
#4(NOT SHOWN)	4860-1-SL1-4(EX)	WEY/348-1	EX.	EX.	EX.
#5	4860-1-SL1-5(EX)	WEY/348-1	EX.	EX.	EX.
#6	4860-1-SL1-6	WEY/348-1	II-60	12 Ft	35 Ft





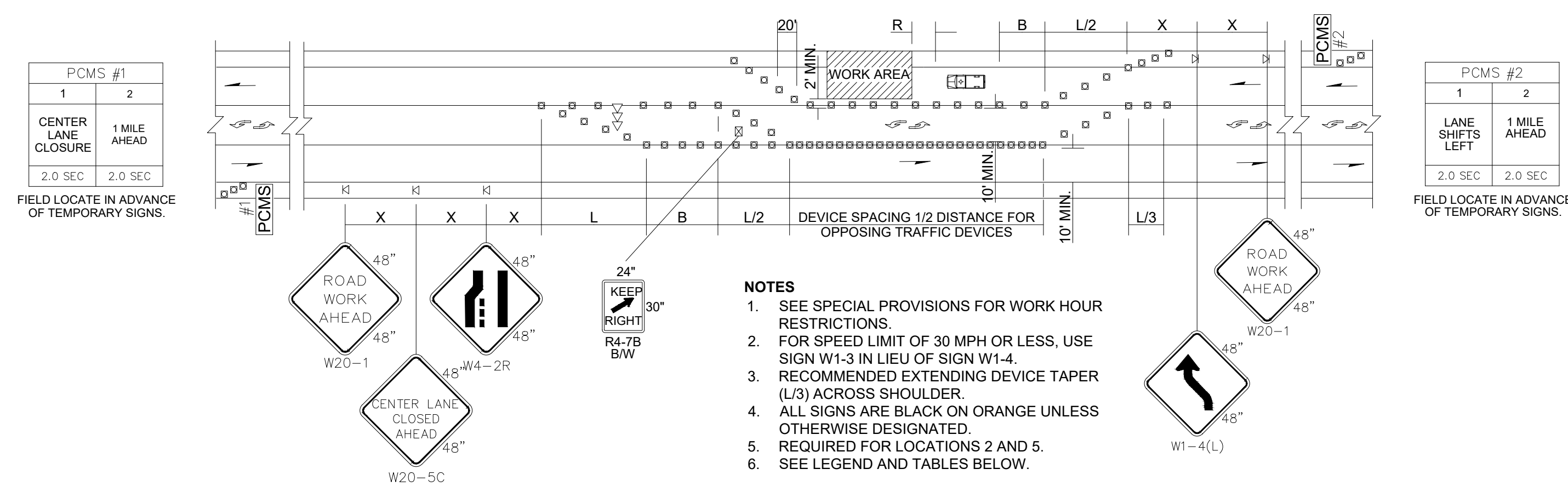
CENTER LANE CLOSURE - THREE LANE ROADWAY

SCALE: NTS 1



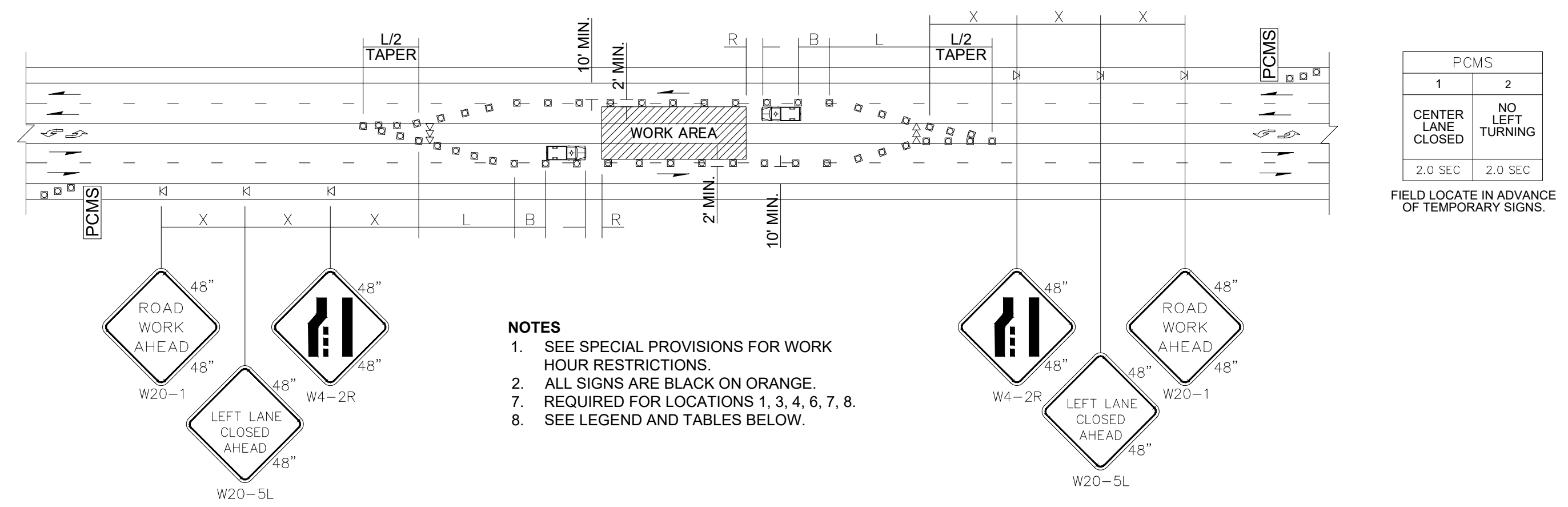
SINGLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

SCALE: NTS 2



LANE SHIFT - THREE LANE ROADWAY

SCALE: NTS 3



LEFT AND CENTER TURN LANE CLOSURE

SCALE: NTS 4

**LEGEND**

- KI TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- ⊙ TRAFFIC SAFETY DRUM
- ⇨ SEQUENTIAL ARROW SIGN
- ▭ PROTECTIVE VEHICLE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ⊠ TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)

SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

SIGN SPACING = X (1)

FREeways & EXPRESSWAYS	55 / 70 MPH	1500'
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

BUFFER DATA

SPEED (MPH)	LONGITUDINAL BUFFER SPACE = B									
	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

PROTECTIVE VEHICLE (WORK VEHICLE) = R  
 NO SPECIFIED DISTANCE REQUIRED

LANE CLOSURE LEGEND AND TABLES

SCALE: NTS 5

**GENERAL NOTES:**

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- OVERNIGHT LANE CLOSURES ARE NOT ALLOWED. FOR CURB AND GUTTER REPLACEMENTS, REMOVE PAVEMENT 1' FROM EDGE OF GUTTER AND BACKFILL WITH CSTC TO WITHIN 0.2' OF ADJACENT PAVEMENT GRADE AT END OF DAY.

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**2025 PEDESTRIAN CROSSINGS (RRFB'S)**

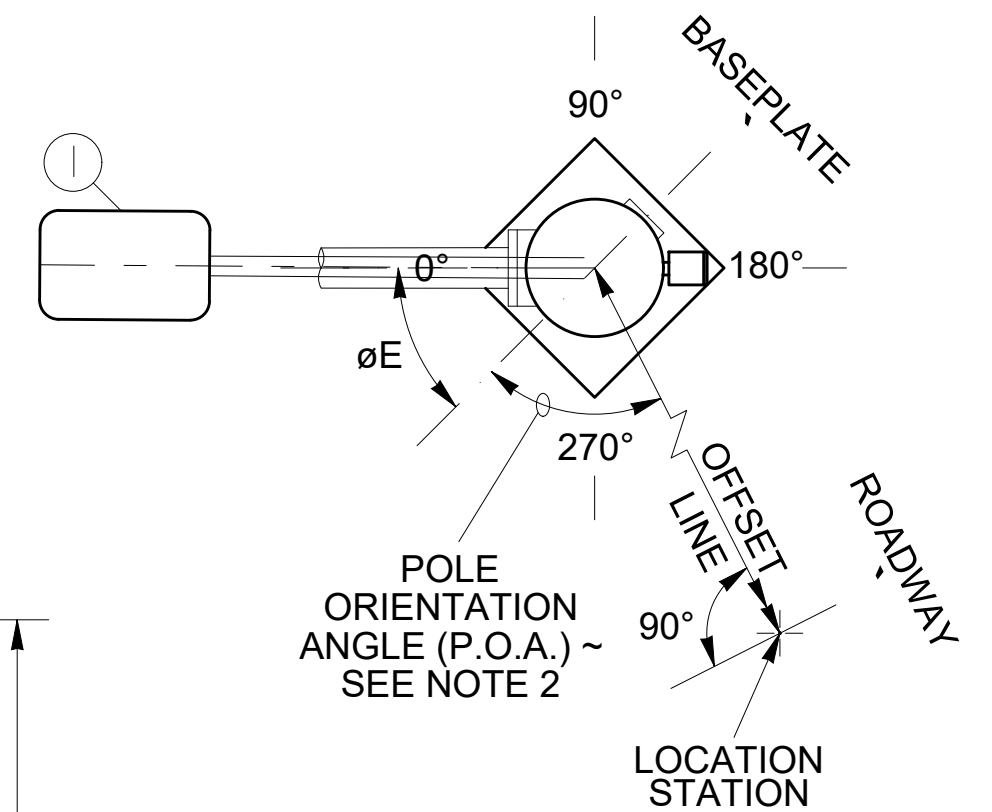
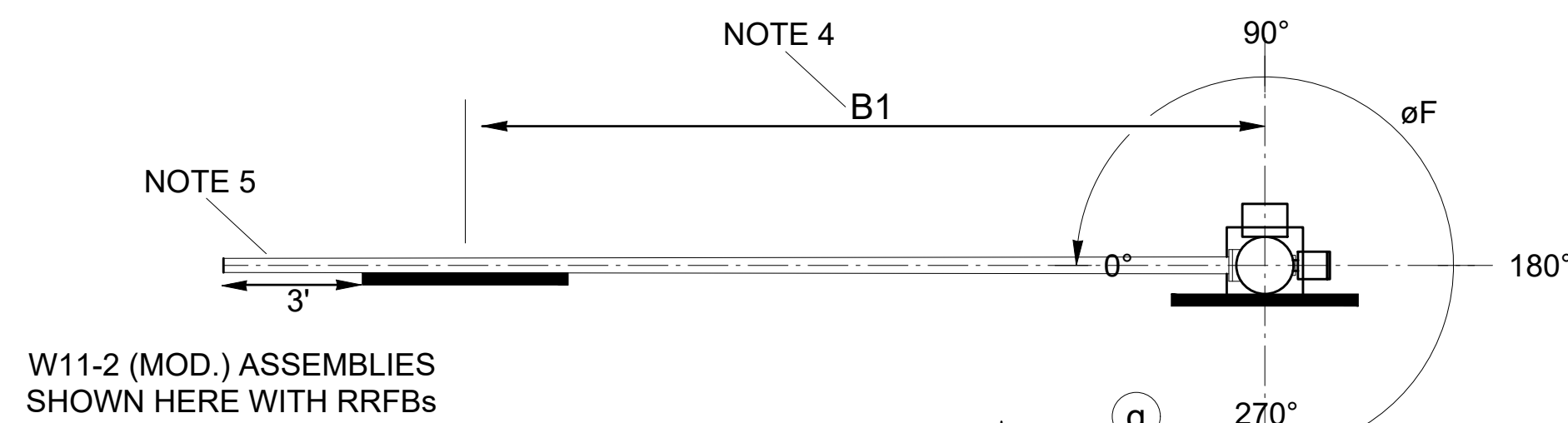
TRAFFIC CONTROL

CITY PROJECT #: 36254

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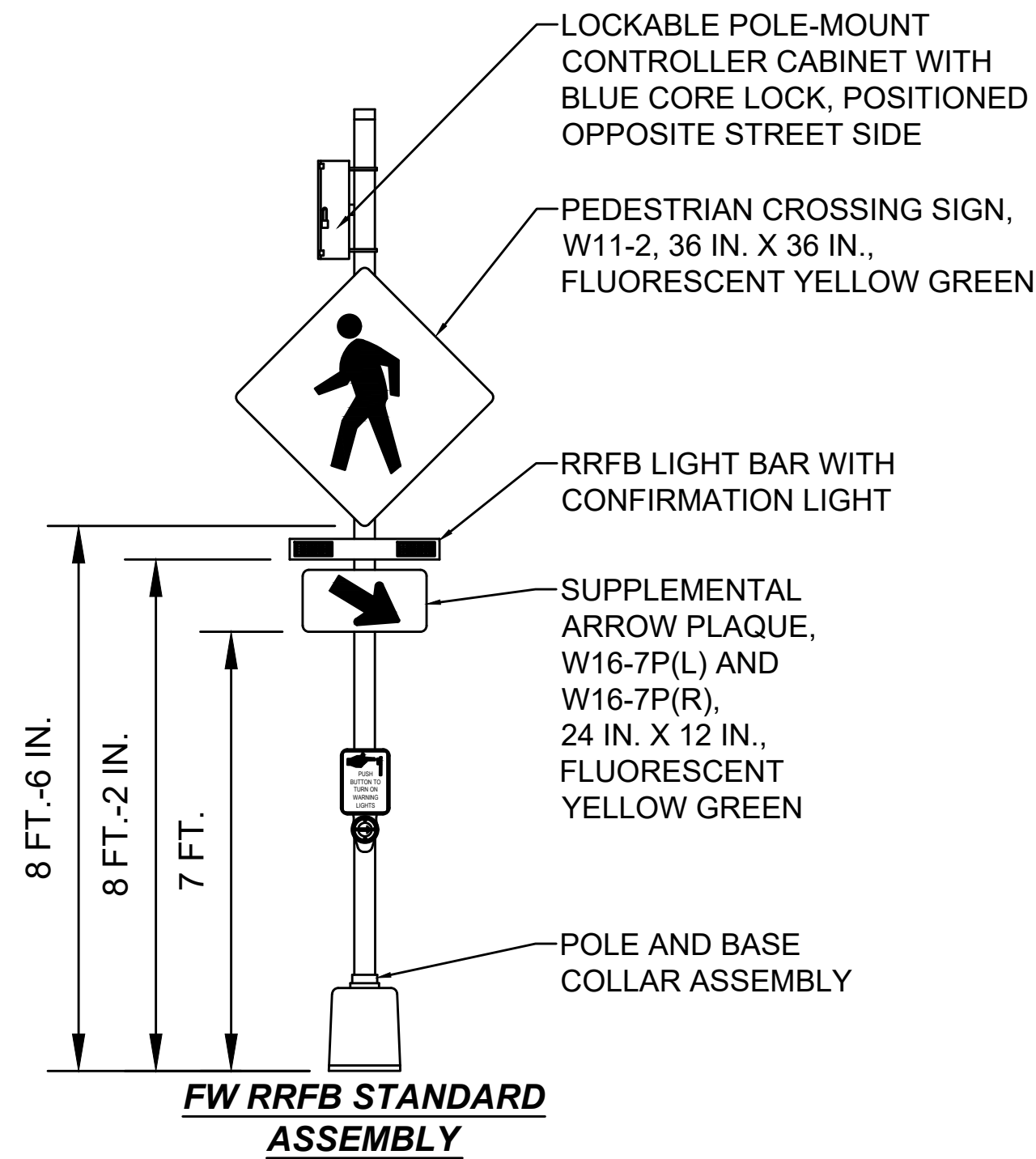
**EQUIPMENT OFFSETS AND ATTACHMENT ANGLES**



SIGN SPECIFICATIONS		
SIGN CODE	SIZE ≤ 35 MPH	SHEETING TYPE
W11-2 (MOD.)	54 x 60	XI (FYG)
W11-2	36 x 36	
W16-7PL	21 x 15	XI (FYG)
W16-9P	24 x 12	

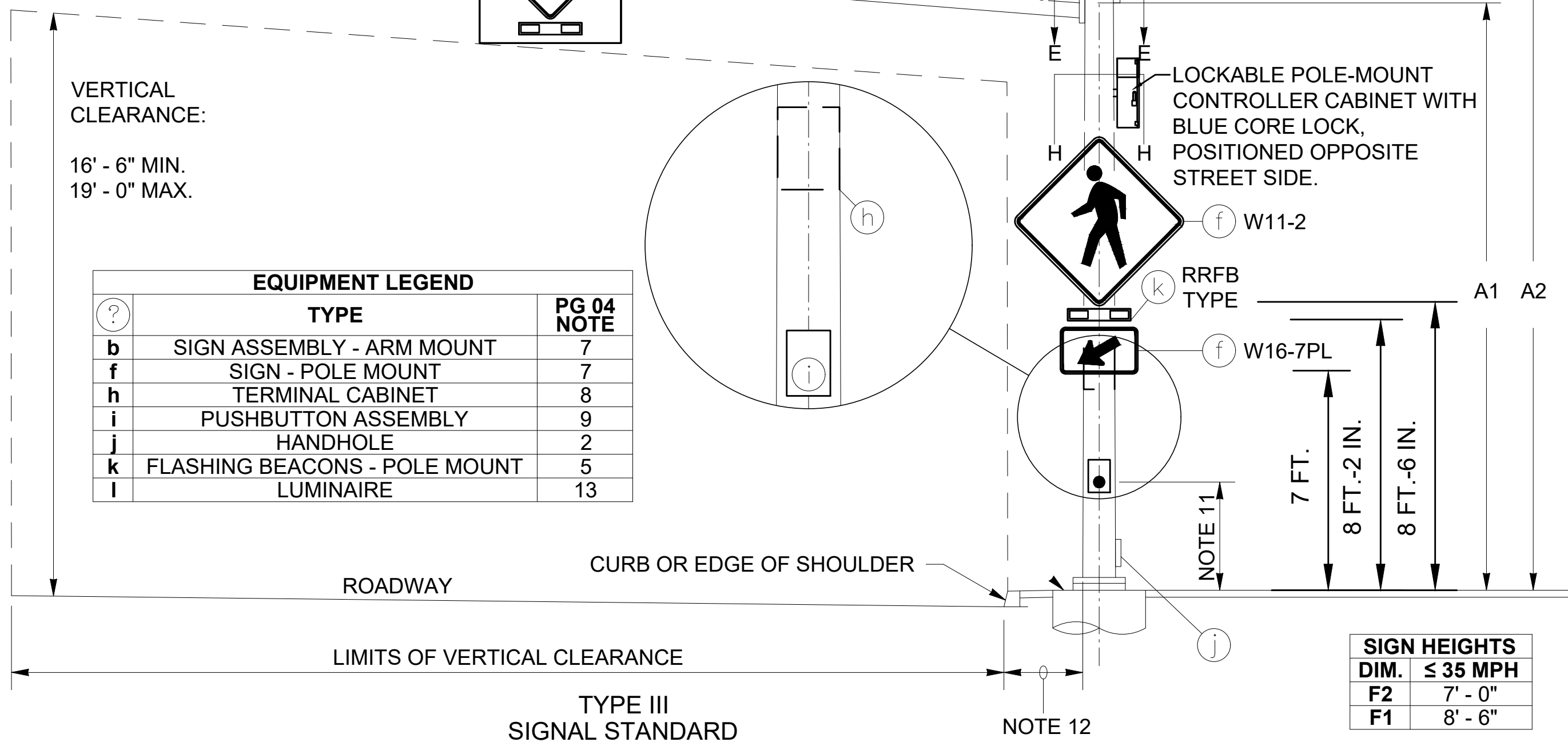
**NOTES**

- RRFB SHALL BE POWERED AS SHOWN IN PLANS.
- SEE STANDARD DETAILS FW.J24.10, FW.J24.30, AND FW.J24.40 FOR ADDITIONAL DETAILS.
- USE STAINLESS STEEL MOUNTING CLAMPS AND BRACKETS TO MOUNT SIGNS, RRFB, LIGHT BARS, AND CONTROLLER CABINET TO STANDARD.



VERTICAL CLEARANCE:  
16' - 6" MIN.  
19' - 0" MAX.

EQUIPMENT LEGEND		
TYPE	PG 04 NOTE	
b	SIGN ASSEMBLY - ARM MOUNT	7
f	SIGN - POLE MOUNT	7
h	TERMINAL CABINET	8
i	PUSHBUTTON ASSEMBLY	9
j	HANDHOLE	2
k	FLASHING BEACONS - POLE MOUNT	5
l	LUMINAIRE	13



SIGN HEIGHTS	
DIM.	≤ 35 MPH
F2	7' - 0"
F1	8' - 6"

**SIGNAL STANDARD DETAIL CHART**

STD. No.	LOCATION INFO	FIELD LOCATION				POLE TYPE	MOUNTING HEIGHT (FT)		SIGNAL MAST ARM DATA		CALCULATED POLE XYZ (FT <sup>3</sup> )	ATTACHMENT POINT ANGLES (DEGREES)			FOUNDATION DESIGN XYZ (FT <sup>3</sup> )	SOIL BEARING PRESSURE (PSF)	FOUNDATION DEPTH (FT)	LUMINAIRE DISTANCE (FT)	REMARKS
		STATION	OFFSET	LT.	RT.		A1	A2	OFFSETS (FT) (Z)(POLE TO ATTACHMENT POINT)	WINDLOAD AREAS (FT <sup>2</sup> ) (X)(Y)		E	F	H					
1	1ST WAY S NORTHBOUND LANES	33+48.78	42.38		X		19	35	22	22.5	535	0	0	180	700	4500	6'	12'	1ST WAY S
2	1ST WAY S SOUTHBOUND LANES	33+58.77	41.98	X			19	35	24	22.5	580	0	0	180	700	4500	6'	12'	1ST WAY S
3	WEYERHAEUSER WAY S NORTHBOUND LANES	27+57.27	28.00		X		N/A	N/A	00	22.5	0000	0	0	180					WEYERHAEUSER WAY S
4	WEYERHAEUSER WAY S SOUTHBOUND LANES	27+70.30	26.68	X			N/A	N/A	00	22.5	0000	0	0	180			12'		WEYERHAEUSER WAY S

SEE SHEET 17 FOR NOTES AND OVERHEAD SIGN ASSEMBLY DETAILS



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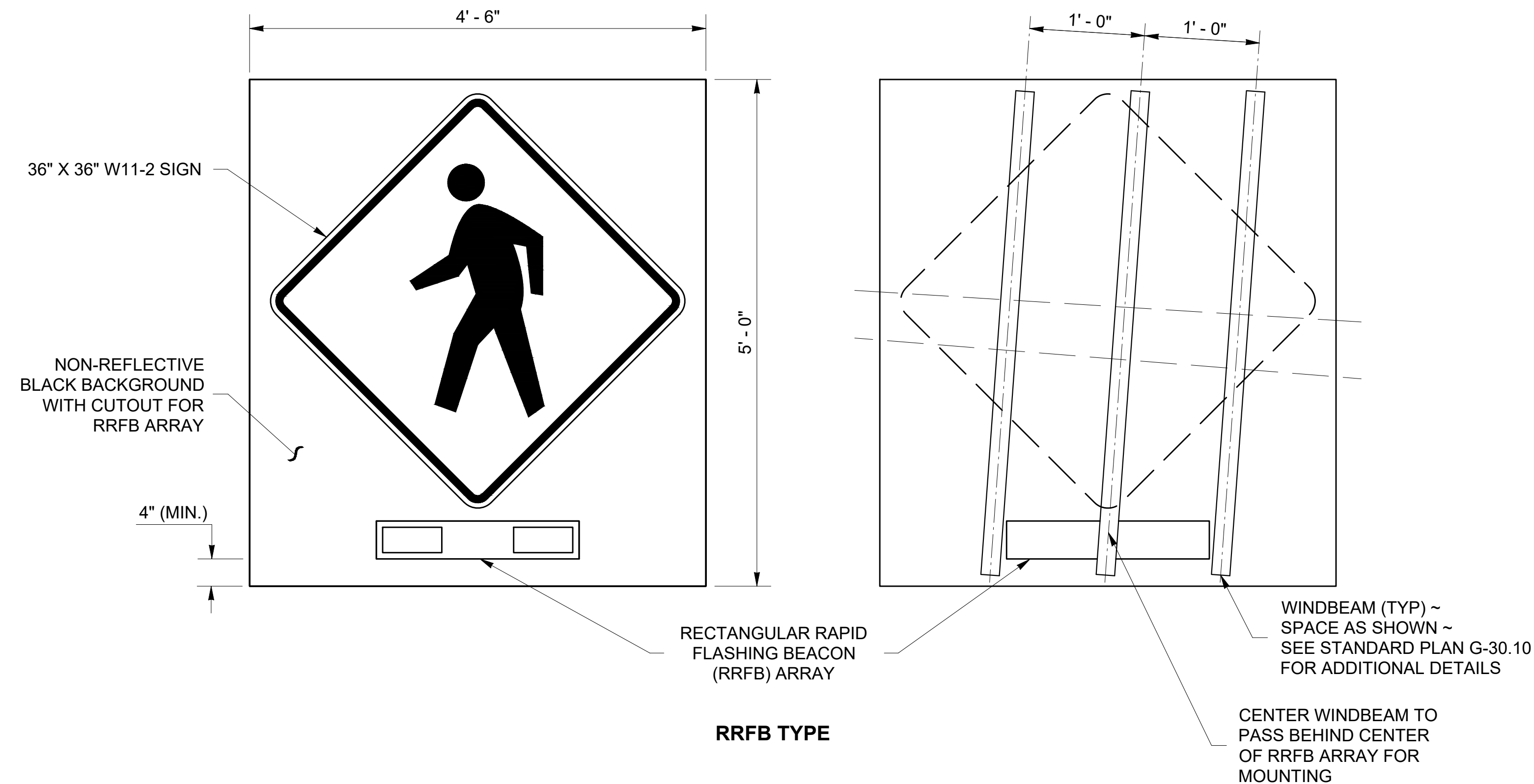
**2025 PEDESTRIAN CROSSINGS (RRFB'S)**

**DETAILS 1**

CITY PROJECT #:  
36254

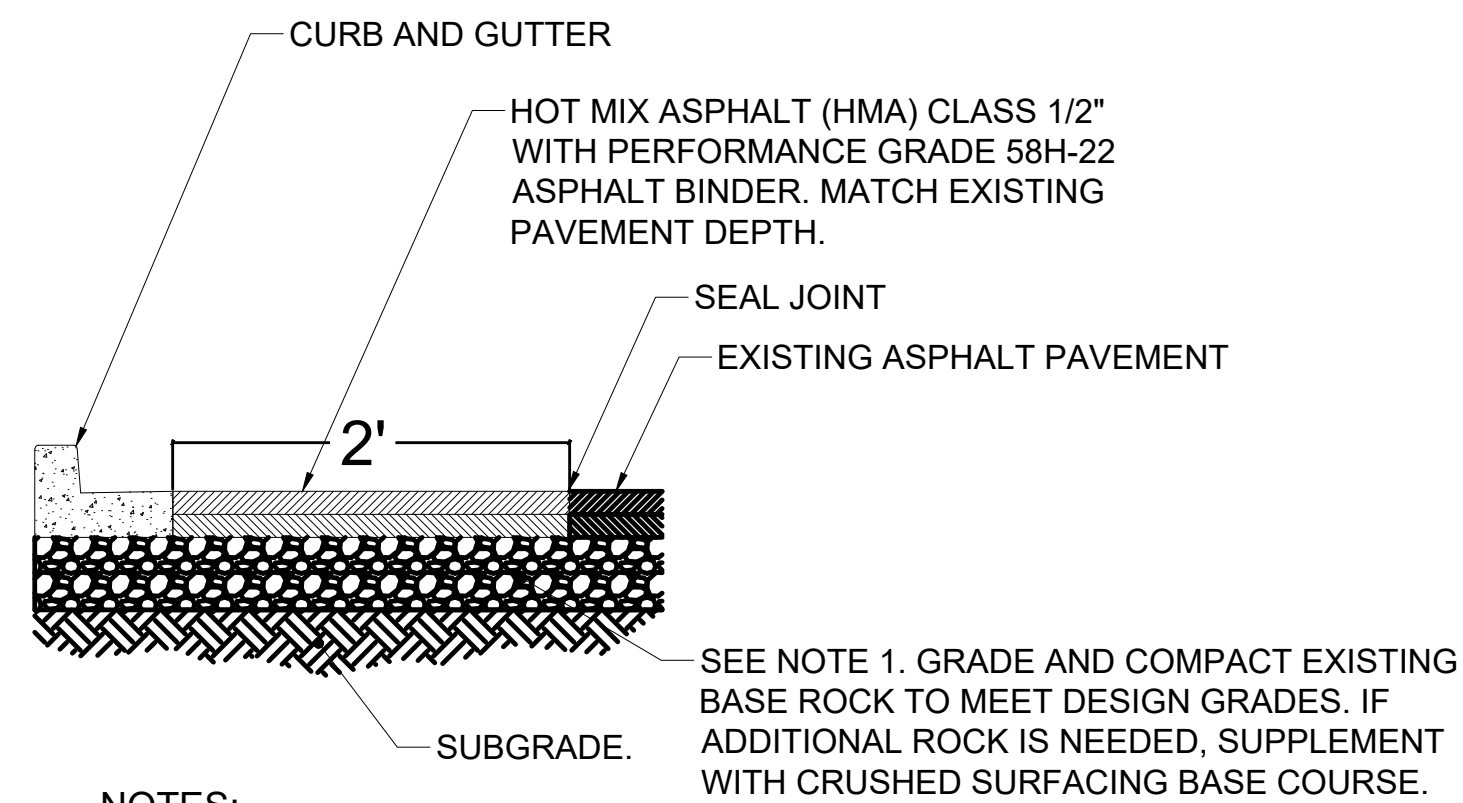
SHT. 16  
OF 17





**RRFB SYSTEM NOTES:**

1. MAST ARMS SHALL NOT HAVE TENONS INSTALLED. WIRING ACCESS FOR RRFBs SHALL BE FIELD DRILLED AND USE RUBBER GROMMETS AND DRIP LOOPS.
2. POLE ORIENTATION ANGLE IS MEASURED BETWEEN STATION OFFSET LINE AND THE CENTER OF THE BASEPLATE FRONT. THE POLE HANDHOLE IS ALWAYS AT THE BACK OF THE BASEPLATE (180° ON BASEPLATE).
3. STREET NAME SIGNS SHALL NOT BE INSTALLED ON THE SIGNAL STANDARDS.
4. B1 SHALL BE CENTERED OVER THEIR RESPECTIVE APPROACH THROUGH LANES.
5. MAST ARM SHALL EXTEND 3' BEYOND EDGE OF SIGN
6. SEE STANDARD PLAN G-30.14 FOR SIGN MOUNTING DETAILS. MAST ARM MOUNTED SIGNS SHALL USE A MINIMUM OF THREE WINDBEAMS. SEE SIGN SPECIFICATION TABLE FOR SIGN SIZES AND SHEETING.
7. PUSHBUTTON ASSEMBLIES SHALL BE FIELD ORIENTED AS SHOWN IN THE PLANS AND RELATIVE TO THE CROSSWALK AND LEVEL CLEAR SPACE.
8. POLE MOUNTED DISPLAYS AND SIGNS SHALL BE FIELD ORIENTED TOWARDS APPROACHING TRAFFIC, AND MUST BE 2' - 0" MIN. FROM FACE OF CURB OR EDGE OF SHOULDER.
9. CENTER OF BUTTON SHALL BE 3' - 6" AS MEASURED FROM THE WALKING SURFACE.
10. FACE OF POLE MUST BE SET BACK AS FOLLOWS:
  - a. 6' - 0" MIN. FROM FACE OF CURB OR EDGE OF SHOULDER.
11. LUMINAIRE ARM SHOULD EXTEND 12' TO FACE OF CURB OR PAINTED EDGE LINE, WHICHEVER IS GREATER.
12. RRFB SYSTEMS SHALL BE AC POWERED.



**NOTES:**

1. IF EXISTING BASE ROCK IS UNSUITABLE FOR REGRADING AND COMPACTION REPLACE BASE ROCK WITH NEW CRUSHED SURFACING BASE COURSE TO SUBGRADE. MATCH EXISTING ROCK AND ASPHALT DEPTHS.

**CURB CUT BACK DETAIL**



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BID SET



Know what's below.  
Call 811 before you dig.

DRAFTED: DJ MCINTOSH

DESIGNED: JOHN COLE

REVIEWED: C. MULLEN

APPROVED: C. MULLEN



**DRAWING VERSION / REVISION LOG**

NO.	DATE	REVISION

**2025 PEDESTRIAN CROSSINGS (RRFB'S)**

**DETAILS 2**

CITY PROJECT #:

36254

SHT. 17

OF 17