

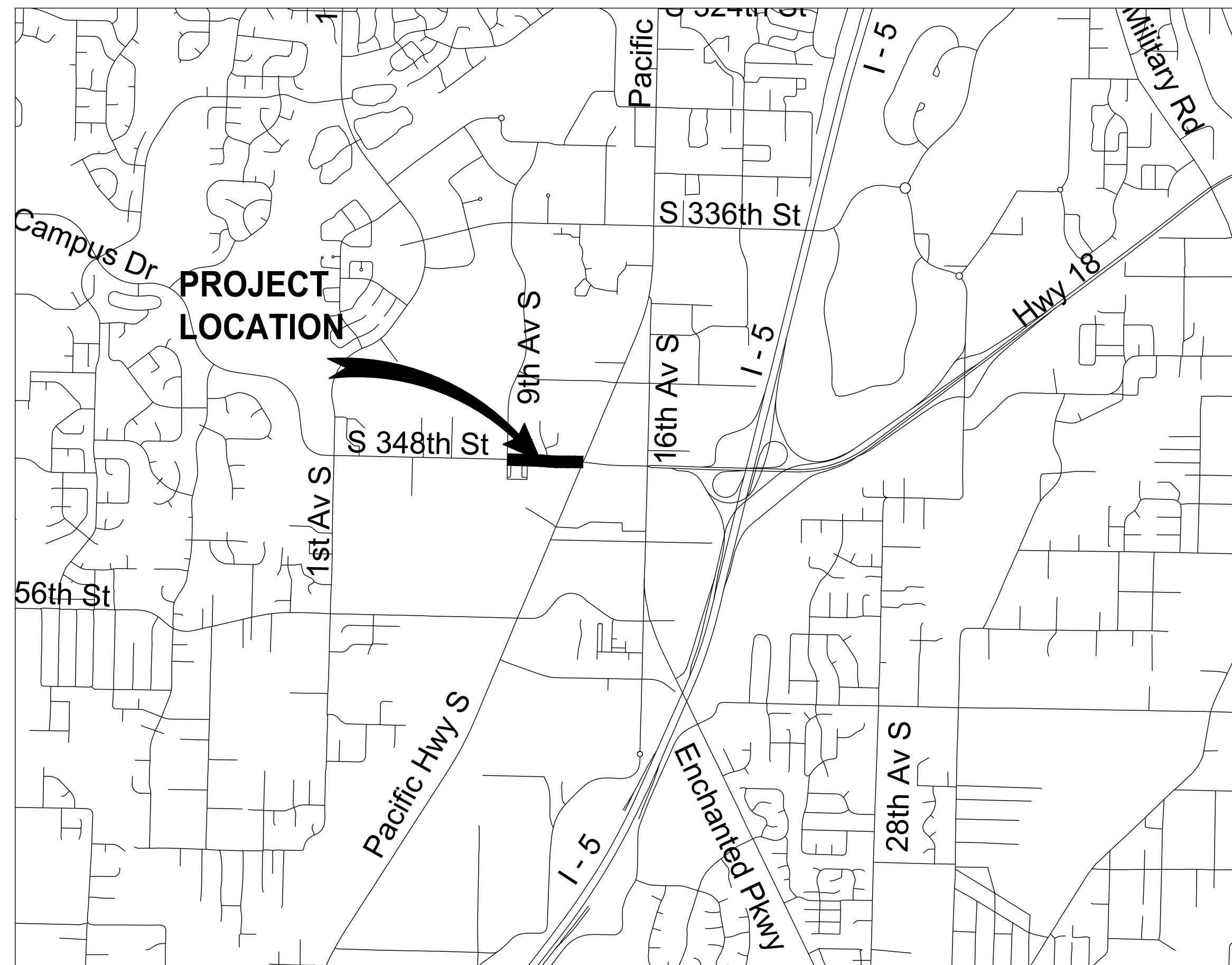
City of Federal Way Public Works Department S 348TH ST NHS PRESERVATION PROJECT

June, 2023

RFB # 23-006

GRANT FUNDING NUMBER NHPP-1012(001)

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APPROVED FOR CONSTRUCTION
Denise S. Miller for
 EJ WALSH P.E.
 PUBLIC WORKS DIRECTOR
 6/26/23
 DATE

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DRAFTED: S.ALIZAI
 DESIGNED: J.HUYNH
 REVIEWED: C.MULLEN
 APPROVED: C.MULLEN



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S 348TH ST NHS PRESERVATION PROJECT

COVER SHEET AND INDEX

CITY PROJECT #:
36241

SHEET
COVER

01 OF 31

LEGEND

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

PROPOSED		PROPOSED	
Ⓣ	MONUMENT	XXX	CONTOUR
Ⓣ	STORMDRAIN MANHOLE	→	DITCH FLOWLINE
Ⓣ	CATCH BASIN	—	EDGE OF PAVEMENT
Ⓣ	AREA DRAIN	≡≡≡	CONCRETE CURB & GUTTER
SD	STORMDRAIN CLEAN-OUT	- - - - -	SAWCUT
^	CULVERT	LIMITS OF GRADING
Ⓣ	SEWER MANHOLE	—SD—	STORMDRAIN
Ⓣ	SIGN	—UD—	UNDERDRAIN
MB	MAILBOX	—SS—	SANITARY SEWER
GP	BOLLARD	—W—	WATER
+	BORE / POTHOLE LOCATION	—IRR—	IRRIGATION
Ⓣ	SHRUB	—G—	GAS
Ⓣ ^{XX"}	DECIDUOUS TREE, DIA (# OF TRUNKS)	—UE—	UNDERGROUND POWER
Ⓣ ^{XX"}	CONIFEROUS TREE, DIA (# OF TRUNKS)	—TEL—	TELECOMMUNICATION
Ⓣ	BOULDER	—OE—	OVERHEAD UTILITY LINE
Ⓣ	STREET LIGHT (LUMINAIRE)	—FO—	CITY FIBER
Ⓣ	TRAFFIC SIGNAL, POLE & MAST ARM	—C—	CUT LINE
Ⓣ	TRAFFIC SIGNAL POLE & MAST ARM W/ LUMINAIRE ARM	—F—	FILL LINE
Ⓣ	PEDESTRIAN PUSHBUTTON POLE	—x—x—x—	FENCE - CHAINLINK
Ⓣ	TRAFFIC / ILLUM J-BOX	—o—o—o—o—	FENCE - WOOD
Ⓣ	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		


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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DESIGNED:	J.HUYNH
REVIEWED:	C.MULLEN
APPROVED:	C.MULLEN



CHRISTINE J. MULLEN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
23-JUN-2023

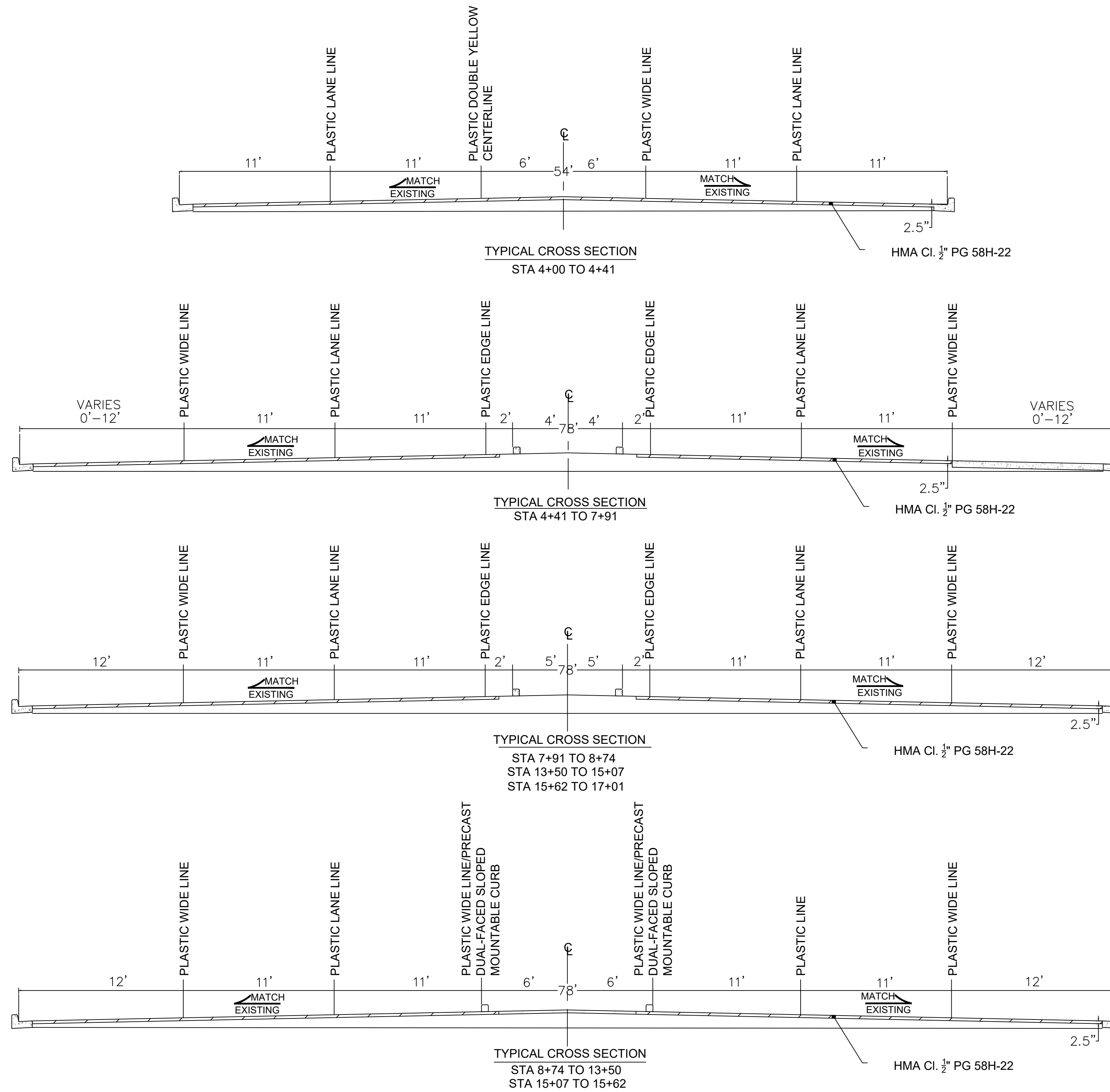
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S 348TH ST NHS PRESERVATION PROJECT

LEGEND AND ABBREVIATIONS

CITY PROJECT #:	36241
SHEET	ABB
	02 OF 31

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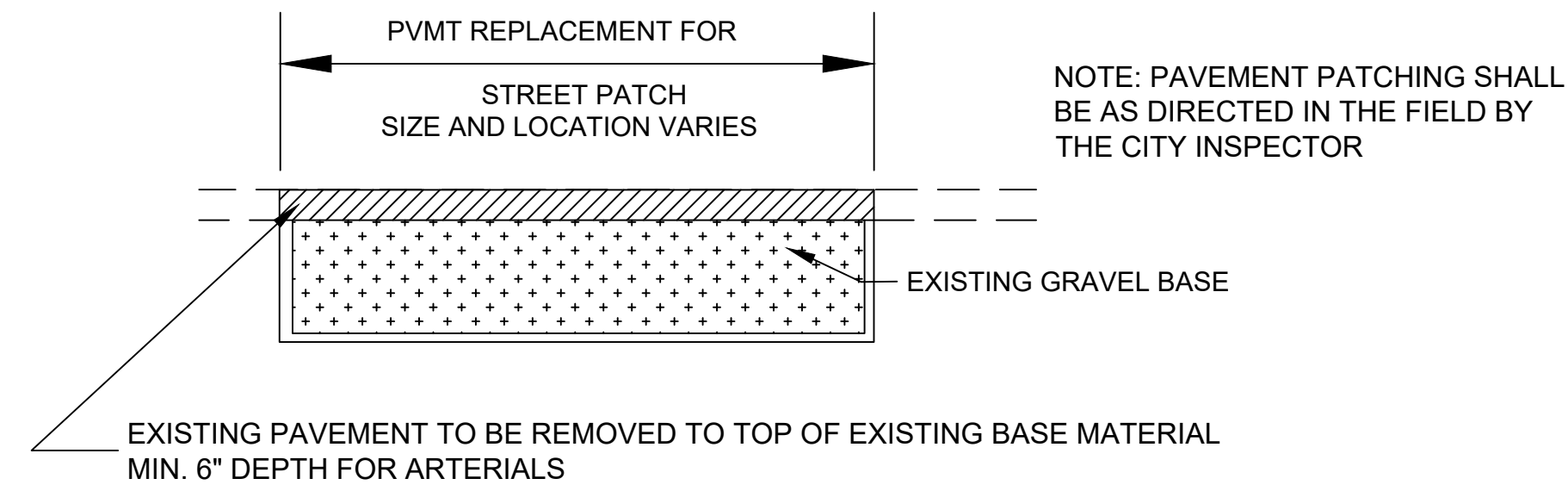
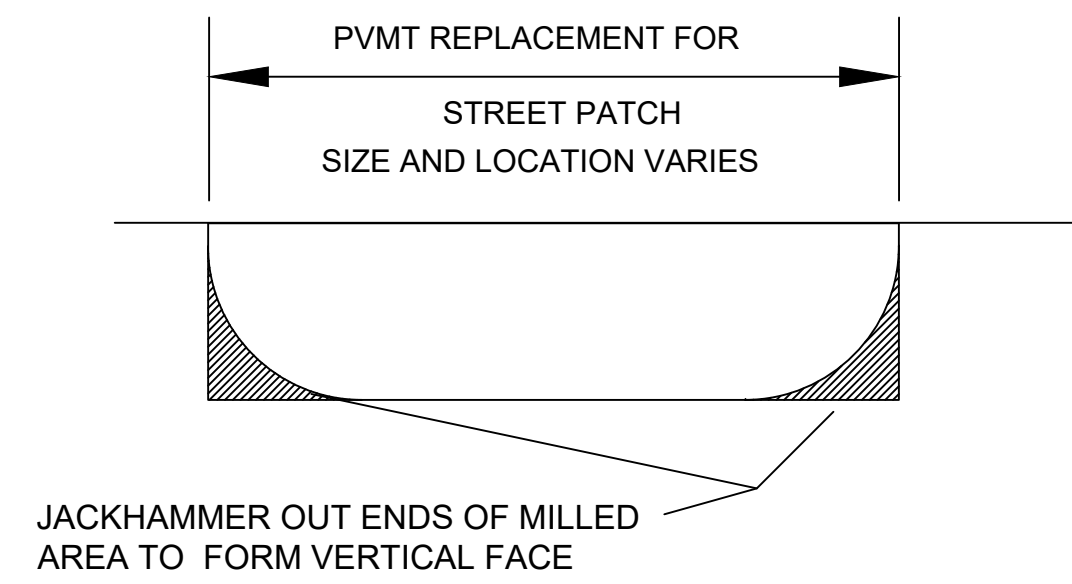


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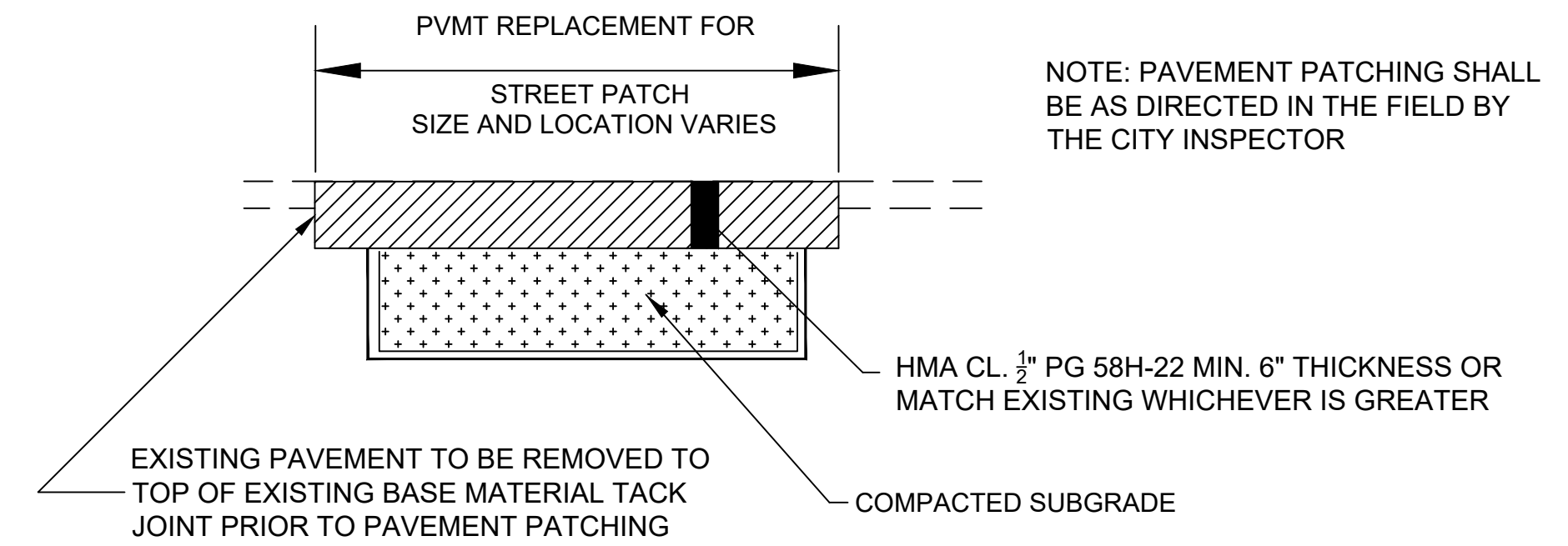
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ROADWAY CROSS SECTION



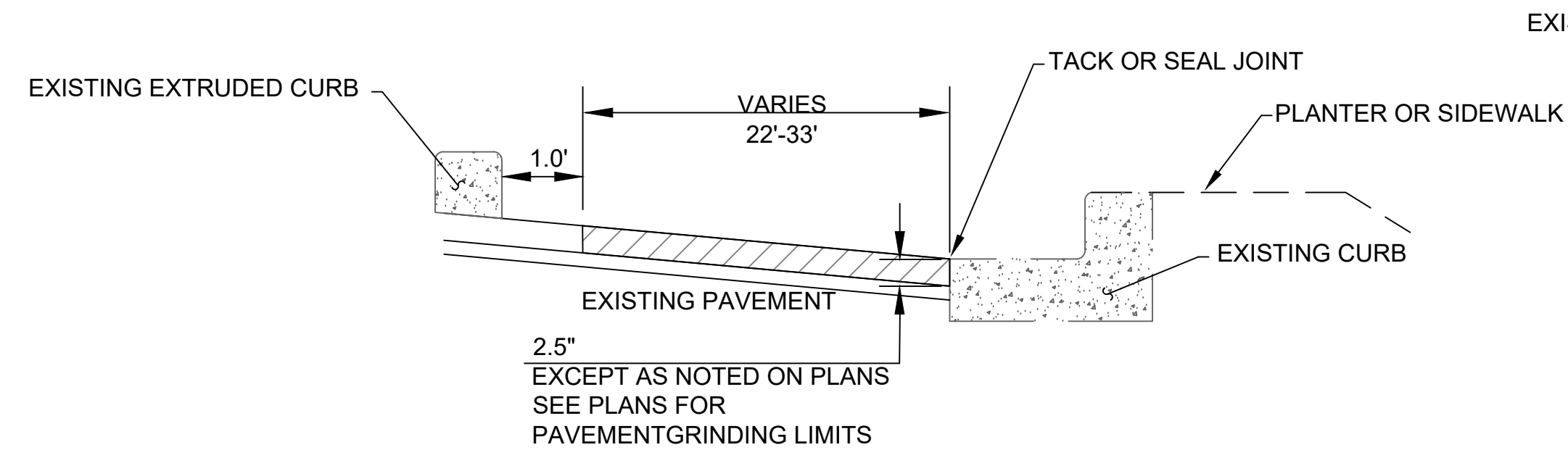
ALTERNATE PAVEMENT PATCHING DETAIL
NTS



ARTERIAL PAVEMENT PATCHING DETAIL
NTS

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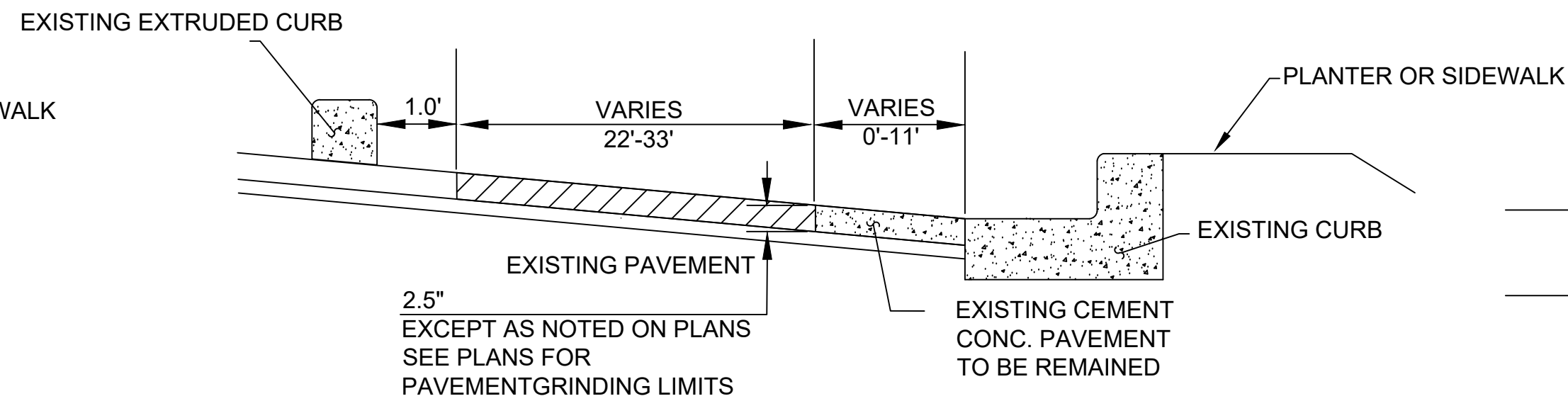
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PLANING BITUMINOUS PAVEMENT DETAIL

NTS

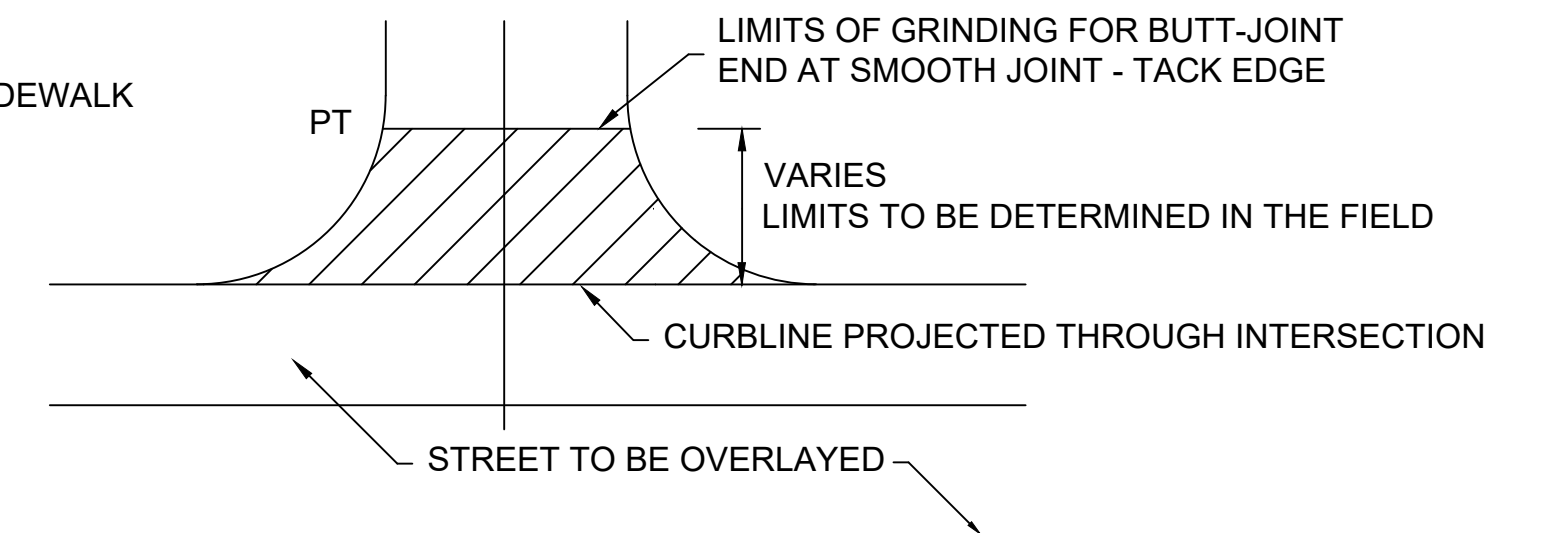
STA 7+36 TO STA 17+01



PLANING BITUMINOUS PAVEMENT WITH CEMENT CONC DETAIL

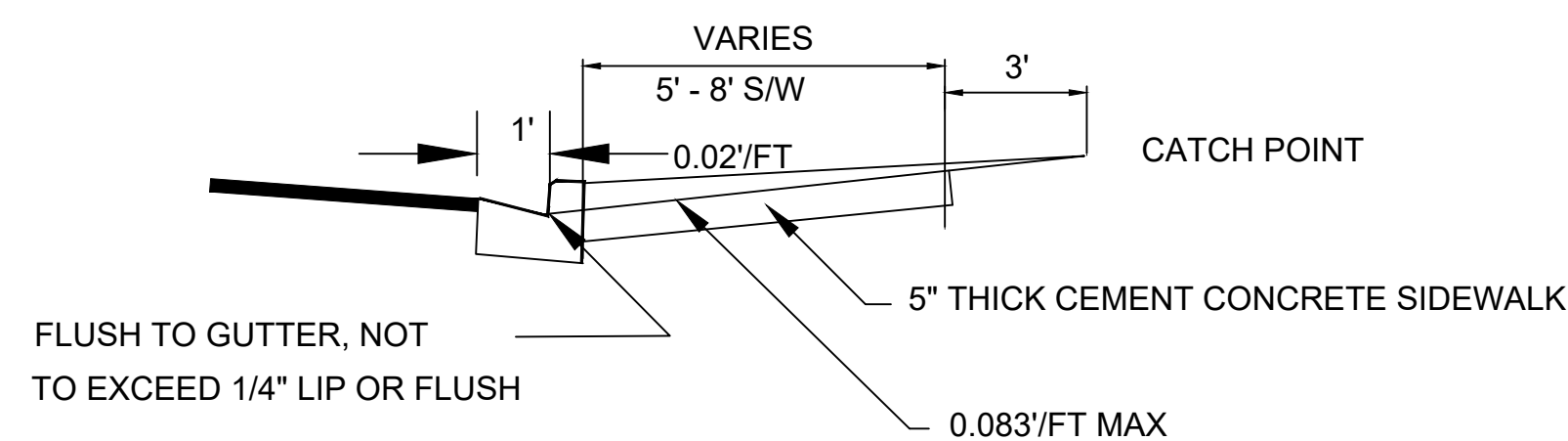
NTS

STA 4+40 TO STA 7+36



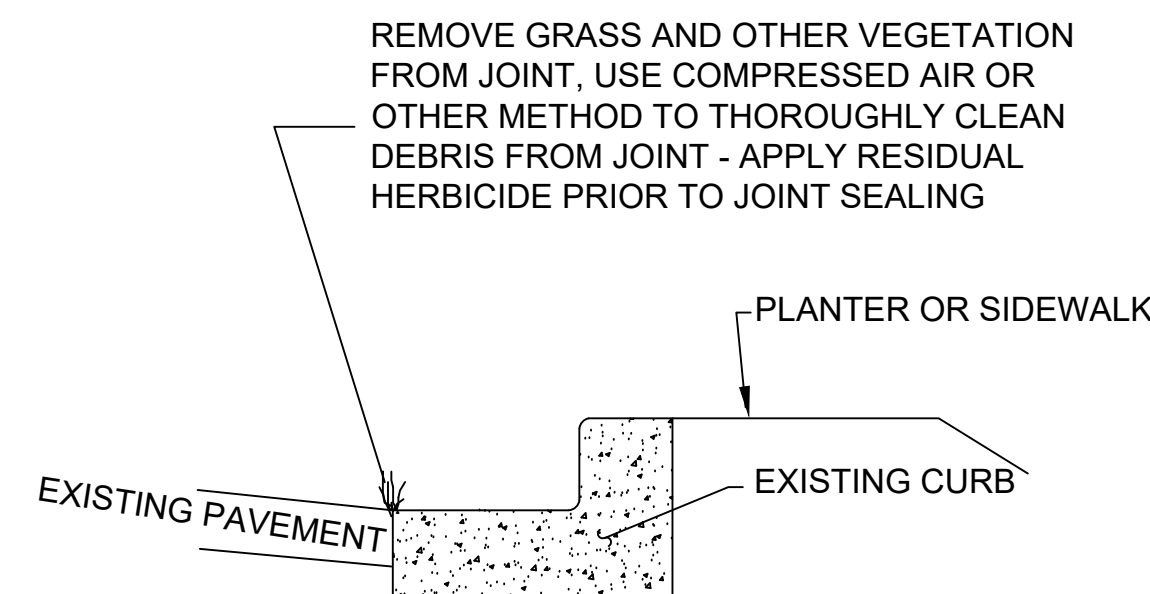
BUTT-JOINT AT TYPICAL INTERSECTION

NTS



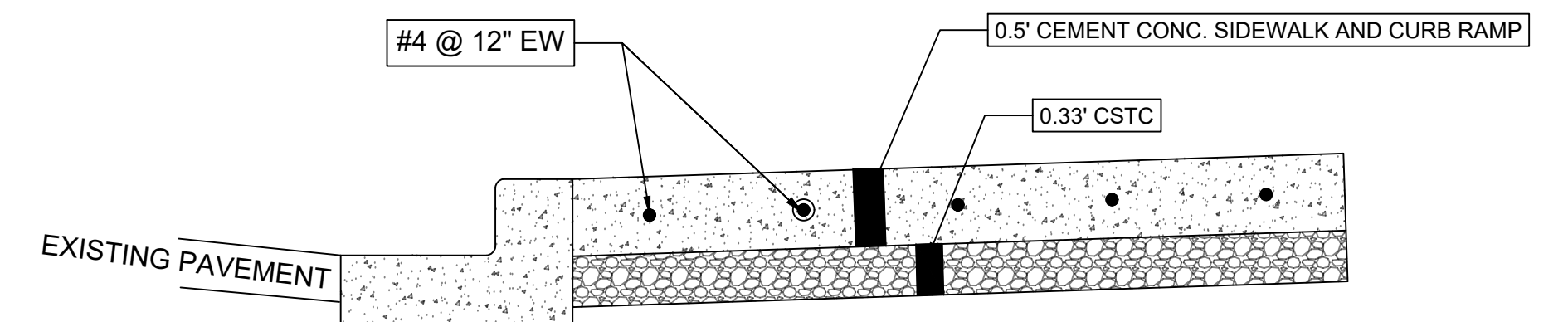
SECTION A-A

NTS



JOINT REPAIR/CLEANING

Roadway
NTS



REINFORCED CEMENT CONC. SIDEWALK & CURB RAMP

NTS

CURB RAMPS IN VERTICAL OR ROLLED CURB

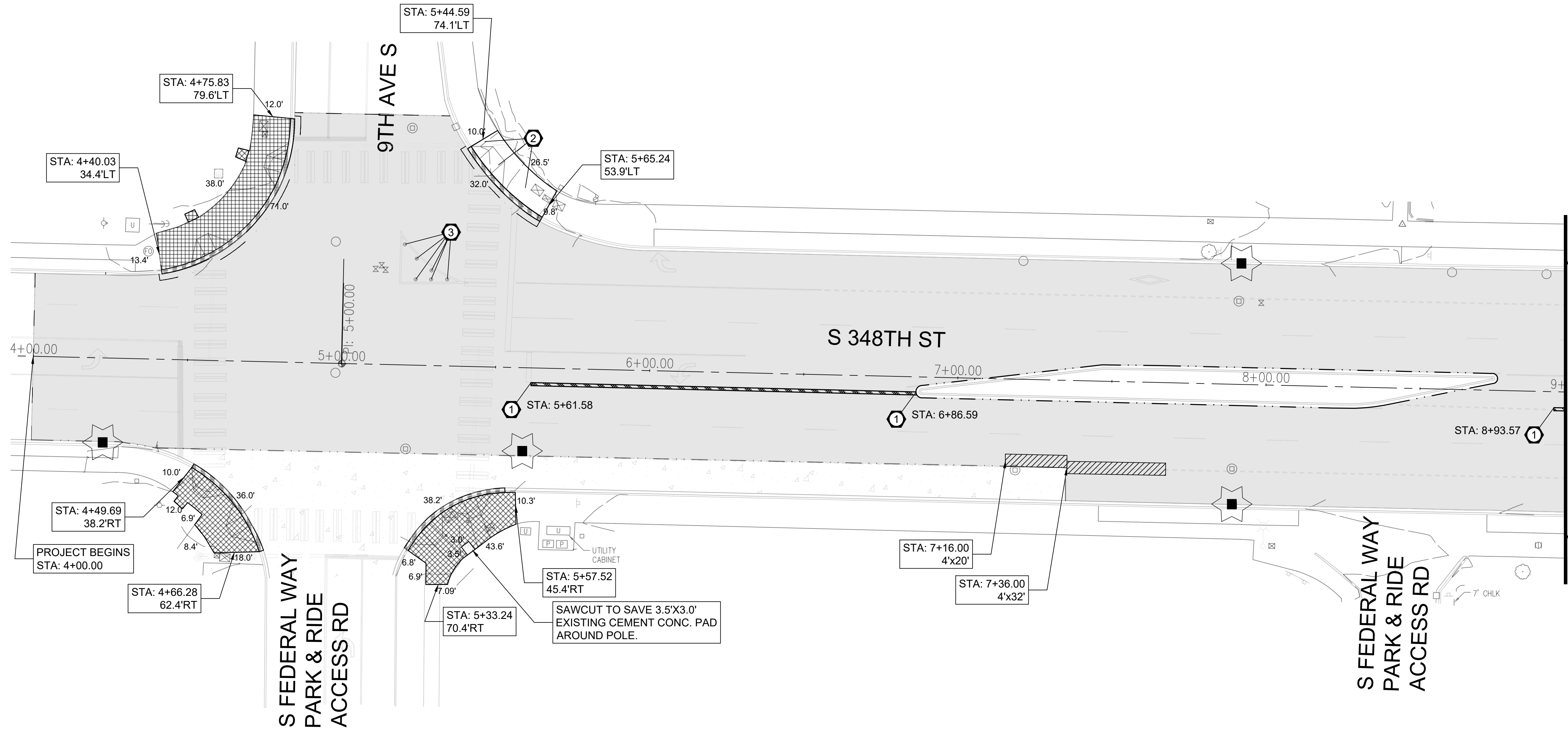
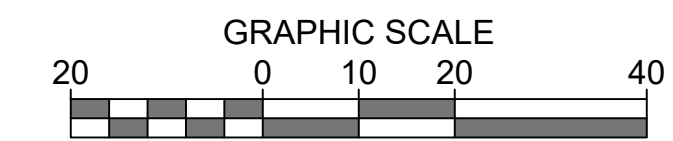
NOTES FOR CURB RAMP REMOVAL AND REPLACEMENT:

- EXISTING CURB RAMPS LOCATED AT INTERSECTIONS WITHIN THE LIMITS OF THE OVERLAY AREA SHALL BE REMOVED AND REPLACED WITH NEW CURB RAMPS CONFORMING TO THE REVISED STATE AND FEDERAL CRITERIA, AND THE DETAIL SHOWN.
- THE CITY OF FEDERAL WAY SHALL DESIGNATE THOSE RAMPS TO BE REMOVED AND RECONSTRUCTED. REMOVAL SHALL BE TO THE NEAREST JOINT. SAWCUT AT EXPANSION JOINT AS REQUIRED. REMOVE SIDEWALK AND CURB AND GUTTER AS REQUIRED TO OBTAIN ADEQUATE SPACING FOR NEW RAMP, TRANSITION, AND WARNING STRIP.
- FOR DIMENSIONS OF CURB RAMPS, SEE DETAILS IN APPENDIX A OF SPECIFICATIONS.

RAMP NOTES:

- RAMP AND APPROACHES SHALL BE CLEAR OF ALL OBSTACLES, INCLUDE HYDRANTS, POLES, AND INLETS.
- VISUAL WARNING STRIP SHALL BE PROVIDED 4" WIDE BETWEEN EXPANSION AND SCORED (CONTRACTION JOINTS).
- RAMP CENTERLINE SHALL BE PERPENDICULAR (OR RADIAL) TO CURB RETURNS.
- WHEN RAMPS ARE CONSTRUCTED ON ONE SIDE OF THE STREET, RAMPS SHALL BE CONSTRUCTED AT CORRESPONDING SIDEWALK LOCATIONS ON OPPOSITE SIDE OF THE STREET.
- ON ARTERIAL STREETS, IN GENERAL CASE CURB RAMPS SHALL BE CONSTRUCTED TWO PER RADIUS, IN OR PREFERABLY ADJACENT TO THE MAIN PEDESTRIAN PATHS, AND SHALL BE ALIGNED WITH THE CROSSWALKS.
- ON RESIDENTIAL STREETS AND/OR WHEN UTILITIES ARE IN CONFLICT OR STREET GRADE EXCEEDS 4.0% CURB RAMPS MAY BE CONSTRUCTED ONE PER RADIUS, AT MIDPOINT OF CURB RETURN OR AT MAIN PEDESTRIAN PATH.

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- CONSTRUCTION NOTES**
- ① REMOVE CEMENT CONC. TRAFFIC CURB
 - ② REMOVE REINFORCED CEMENT CONC. SIDEWALK
 - ③ REMOVE TUBULAR MARKERS
 - ④ REMOVE SLOPED MOUNTABLE CURB

- SITE PREP & TESC LEGEND**
- INLET PROTECTION INSERT
 - CEMENT CONC. CURB AND GUTTER REMOVAL
 - SAWCUT LINE
 - CEMENT CONC. SIDEWALK REMOVAL
 - PLANING BITUMINOUS PAVEMENT
 - PAVEMENT REPAIR

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 DESIGNED: J.HUYNH
 REVIEWED: C.MULLEN
 APPROVED: C.MULLEN

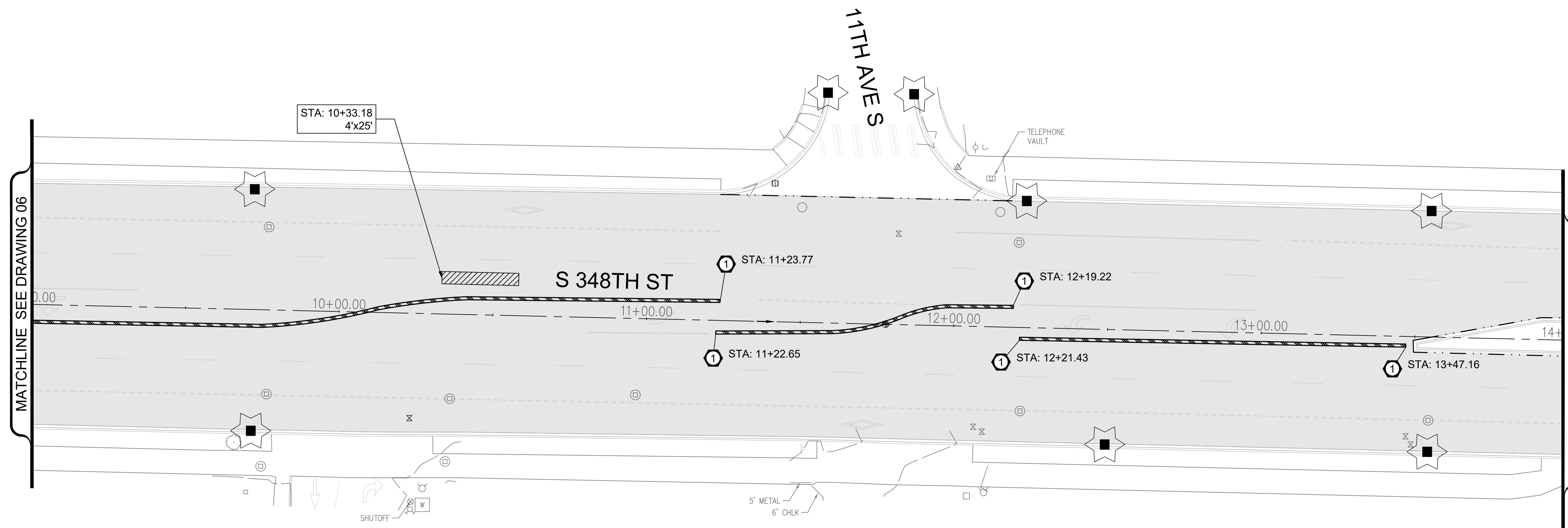
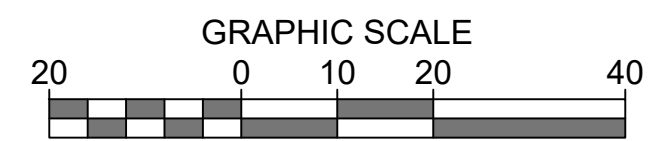
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S 348TH ST NHS PRESERVATION PROJECT

ESC & SITE PREPARATION PLAN

STA 4+00 - 9+00

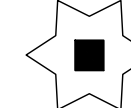

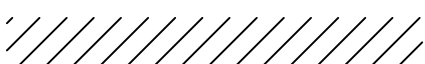
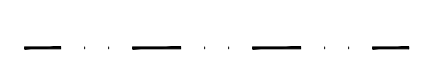
CITY PROJECT #: 36241
 SHEET: ESC 1
 06 OF 31



CONSTRUCTION NOTES

- ① REMOVE CEMENT CONC. TRAFFIC CURB
- ② REMOVE REINFORCED CEMENT CONC. SIDEWALK
- ③ REMOVE TUBULAR MARKERS
- ④ REMOVE SLOPED MOUNTABLE CURB

SITE PREP & TESC LEGEND

-  INLET PROTECTION INSERT
-  PLANING BITUMINOUS PAVEMENT
-  PAVEMENT REPAIR
-  SAWCUT LINE

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REVIEWED: C.MULLEN
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CHRISTINE J. MULLEN
STATE OF WASHINGTON
39004
REGISTERED
PROFESSIONAL ENGINEER
23-JUN-2023

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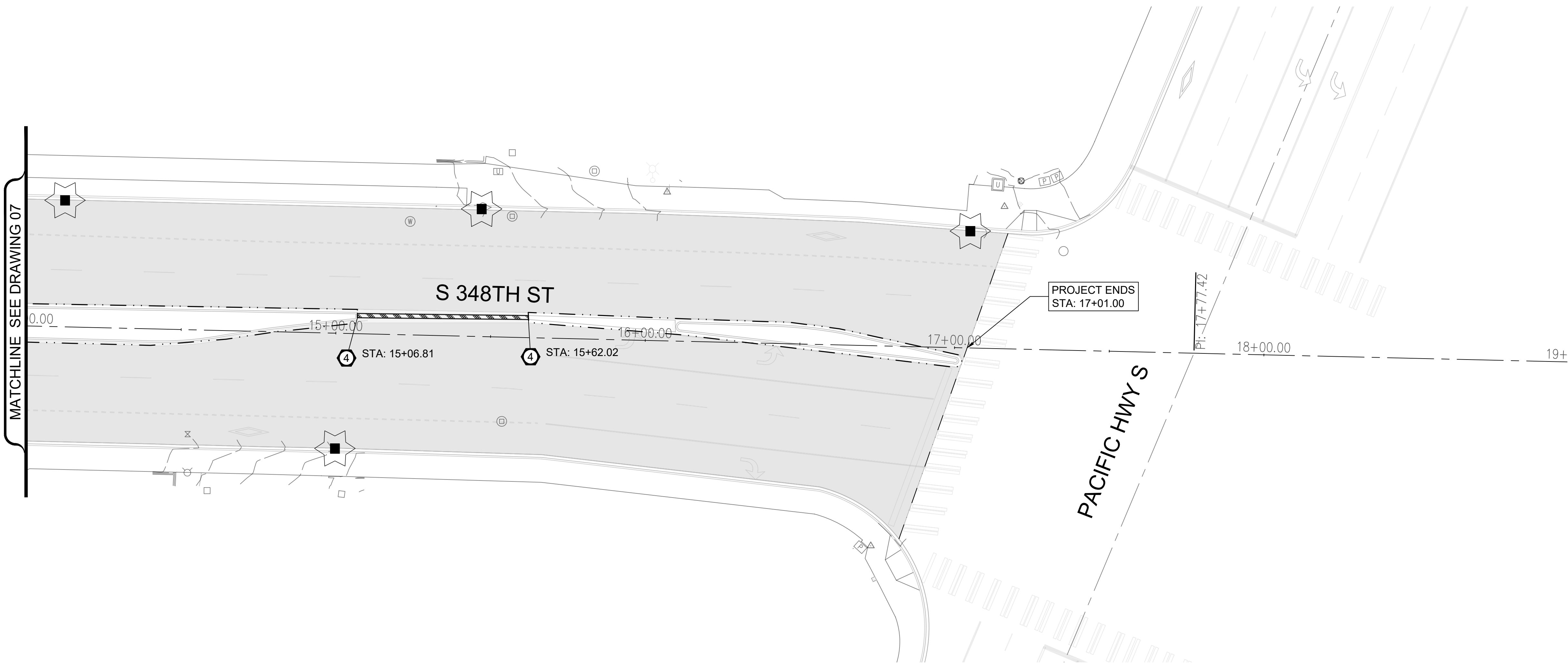
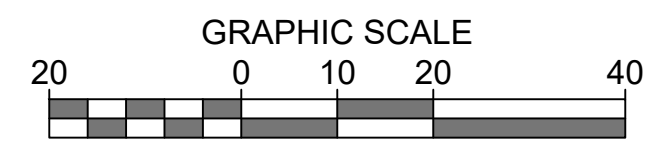
ESC & SITE PREPARATION PLAN

STA 9+00 - 14+00

CITY PROJECT #:
36241

SHEET
ESC 2

07 OF 31



CONSTRUCTION NOTES

- ① REMOVE CEMENT CONC. TRAFFIC CURB
- ② REMOVE REINFORCED CEMENT CONC. SIDEWALK
- ③ REMOVE TUBULAR MARKERS
- ④ REMOVE SLOPED MOUNTABLE CURB

SITE PREP & TESC LEGEND

- INLET PROTECTION INSERT
- SAWCUT LINE
- PLANING BITUMINOUS PAVEMENT

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S 348TH ST NHS PRESERVATION PROJECT

ESC & SITE PREPARATION PLAN

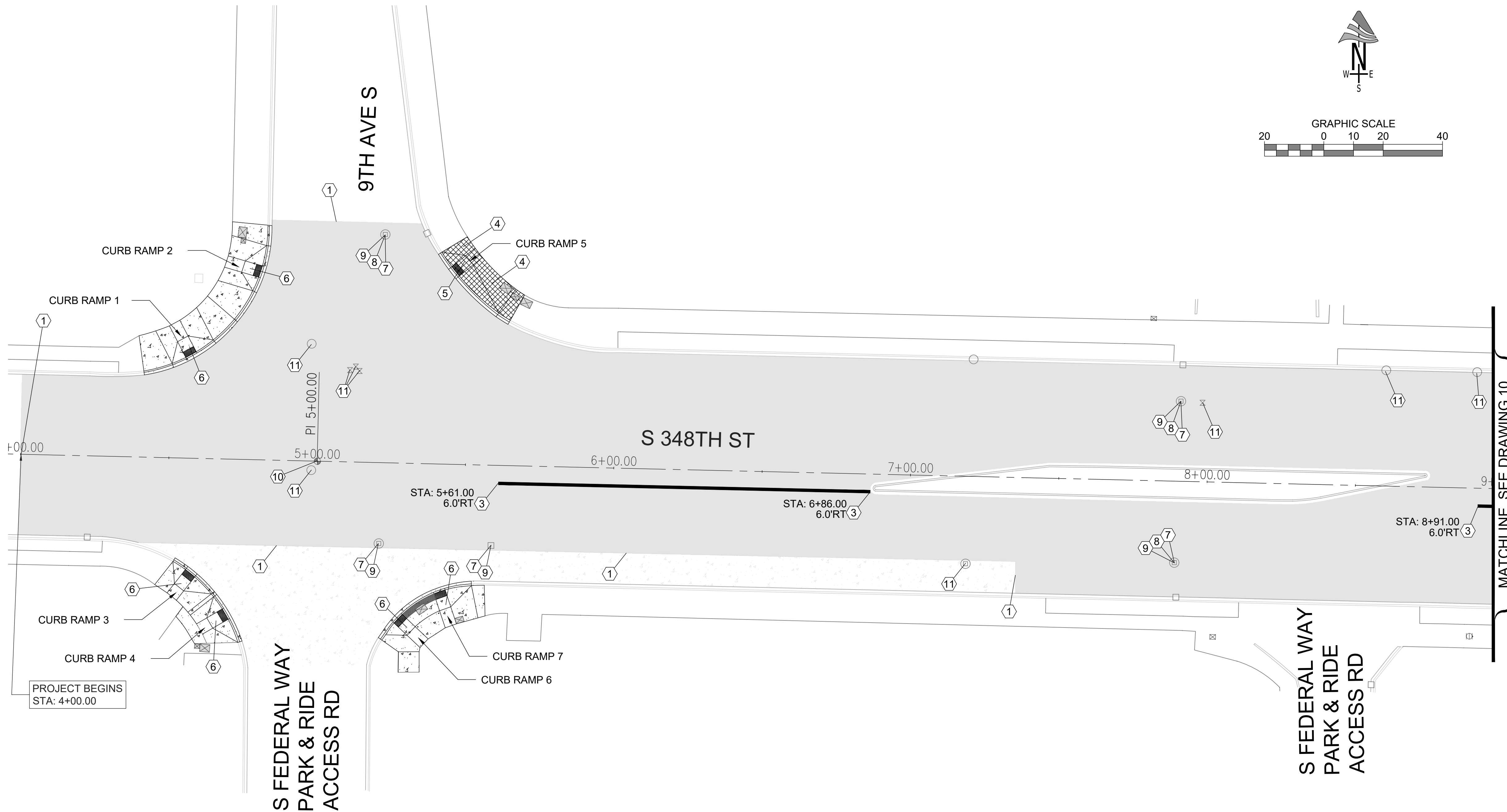
STA 14+00 - 19+00

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SHEET
ESC 3

08 OF 31

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LEGEND

- CEMENT CONC. CURB AND GUTTER PER CFW STD. DETAIL 3-4
- PRECAST DUAL-FACED SLOPED MOUNTABLE CURB
- HMA CL. 1/2 IN PG. 58H-22
- CEMENT CONC. SIDEWALK PER CFW STD. DETAIL 3-3
- NON-SLIP MMA COAT

CONSTRUCTION NOTES

- 1 MATCH EXISTING
- 2 CEMENT CONC. CURB AND GUTTER
- 3 PRECAST DUAL-FACED SLOPED MOUNTABLE CURB PER WSDOT STD. F-10.62-02
- 4 REINFORCED CEMENT CONC. SIDEWALK PER DETAILS. SHEET 5.
- 5 REINFORCED CEMENT CONC. PERPENDICULAR CURB RAMP. SEE CURB RAMP SHEET 14.
- 6 CEMENT CONC. PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-04. SEE SHEETS 12, 13 AND 15.
- 7 ADJUST MANHOLE PER CFW STD. DETAIL 3-55
- 8 INSTALL HIGH IMPACT RISER
- 9 REPLACE EXISTING LID/FRAME WITH HEAVY DUTY ROUND SOLID LOCKING CASTING
- 10 ADJUST MONUMENT CASE AND COVER
- 11 TO BE ADJUSTED BY OTHER

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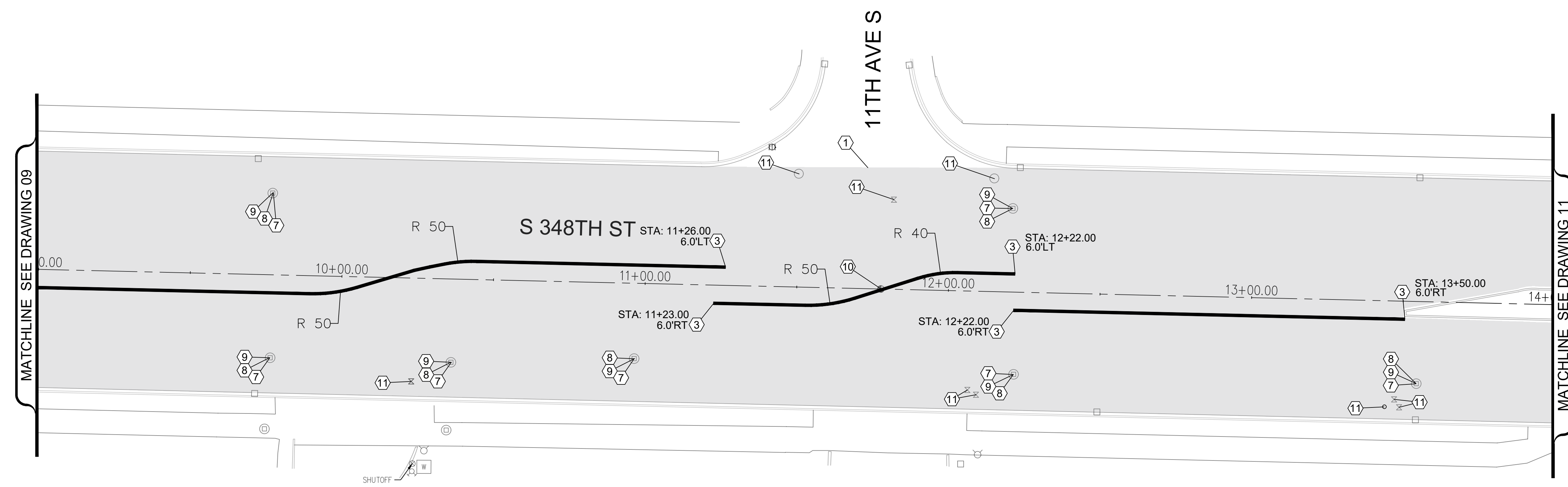
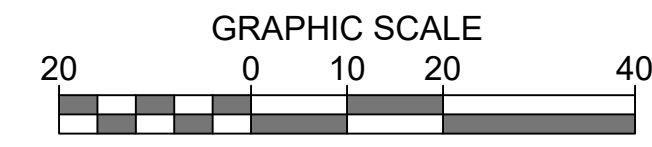
S 348TH ST NHS PRESERVATION PROJECT

ROADWAY PLAN
STA 4+00 - 9+00

CITY PROJECT #:
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SHEET
RDWY1

09 OF 31



LEGEND

- PRECAST DUAL-FACED SLOPED MOUNTABLE CURB
- HMA CL. 1/2 IN PG. 58H-22

CONSTRUCTION NOTES

- MATCH EXISTING
- PRECAST DUAL-FACED SLOPED MOUNTABLE CURB PER CFW STD. DETAIL 3-4
- ADJUST MANHOLE PER CFW STD. DETAIL 3-55
- INSTALL HIGH IMPACT RISER
- REPLACE EXISTING LID/FRAME WITH HEAVY DUTY ROUND SOLID LOCKING CASTING
- ADJUSTED MONUMENT CASE AND COVER
- TO BE ADJUSTED BY OTHER

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 REVIEWED: C.MULLEN
 APPROVED: C.MULLEN

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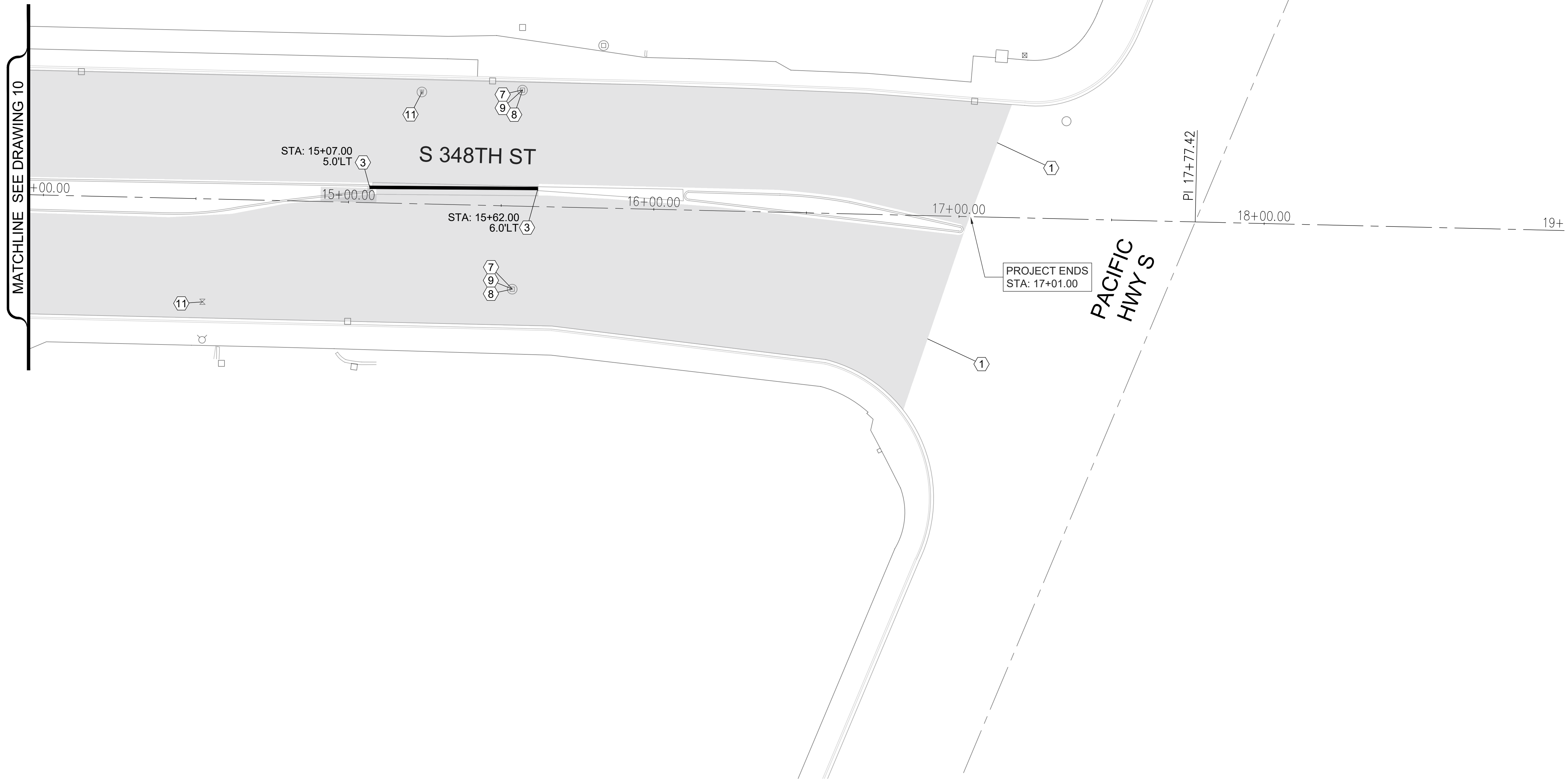
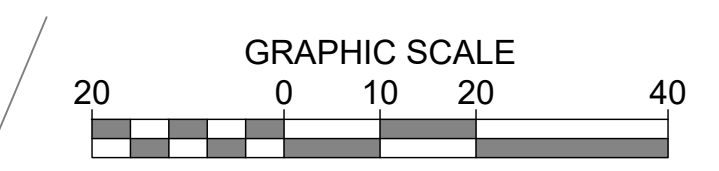
S 348TH ST NHS PRESERVATION PROJECT

ROADWAY PLAN
STA 9+00 - 14+00

CITY PROJECT #:
36241

SHEET
RDWY2

10 OF 31



LEGEND

- PRECAST DUAL-FACED SLOPED MOUNTABLE CURB
- HMA CL. 1/2 IN PG. 58H-22


CONSTRUCTION NOTES

- MATCH EXISTING
- PRECAST DUAL-FACED SLOPED MOUNTABLE CURB PER CFW STD. DETAIL 3-4
- ADJUST MANHOLE PER CFW STD. DETAIL 3-55
- INSTALL HIGH IMPACT RISER
- REPLACE EXISTING LID/FRAME WITH HEAVY DUTY ROUND SOLID LOCKING CASTING

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DESIGNED: J.HUYNH
REVIEWED: C.MULLEN
APPROVED: C.MULLEN



CHRISTINE J. MULLEN
STATE OF WASHINGTON
39004
REGISTERED PROFESSIONAL ENGINEER
23-JUN-2023

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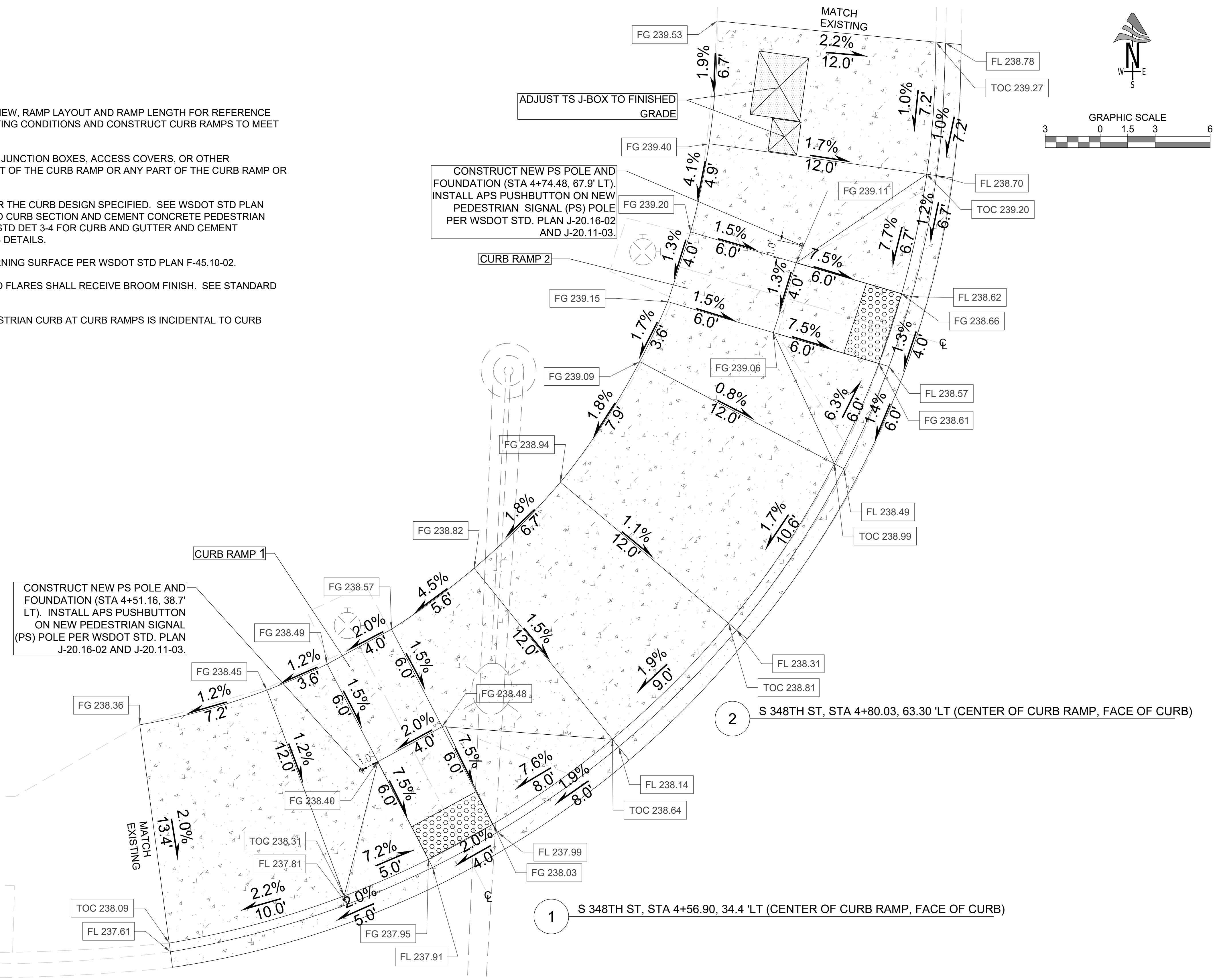
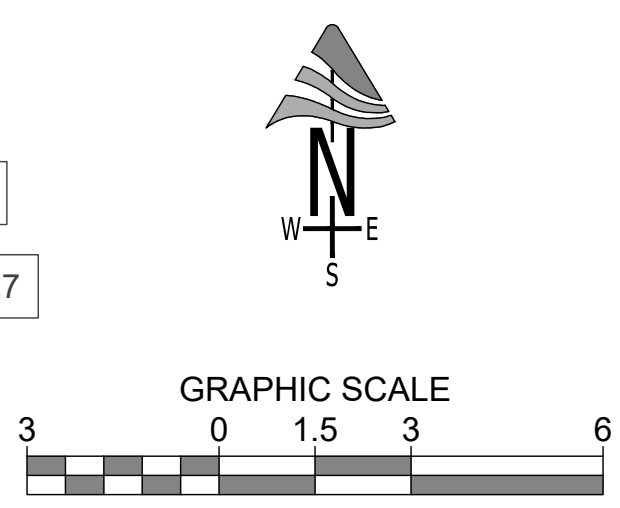
ROADWAY PLAN
STA 14+00 - 19+00

CITY PROJECT #: 36241
SHEET RDWY3
11 OF 31

FL = GUTTER FLOW LINE
 TOC = TOP OF CURB
 FG = FINISH GRADE

CURB RAMP NOTES

1. SLOPES SHOWN IN PLAN VIEW, RAMP LAYOUT AND RAMP LENGTH FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS AND CONSTRUCT CURB RAMPS TO MEET ADA REQUIREMENTS.
2. DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ANY PART OF THE CURB RAMP OR LANDING.
3. SEE CONTRACT PLANS FOR THE CURB DESIGN SPECIFIED. SEE WSDOT STD PLAN F-10.12-03 FOR DEPRESSED CURB SECTION AND CEMENT CONCRETE PEDESTRIAN CURB DETAILS. SEE CFW STD DET 3-4 FOR CURB AND GUTTER AND CEMENT CONCRETE BARRIER CURB DETAILS.
4. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD PLAN F-45.10-02.
5. CURB RAMP, LANDING, AND FLARES SHALL RECEIVE BROOM FINISH. SEE STANDARD SPECIFICATIONS 8-14.
6. CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS IS INCIDENTAL TO CURB RAMP BID ITEM(S).



LEGEND

- DETECTABLE WARNING SURFACE
- CEMENT CONC. SIDEWALK
- NON-SLIP MMA COATING

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 APPROVED: C.MULLEN



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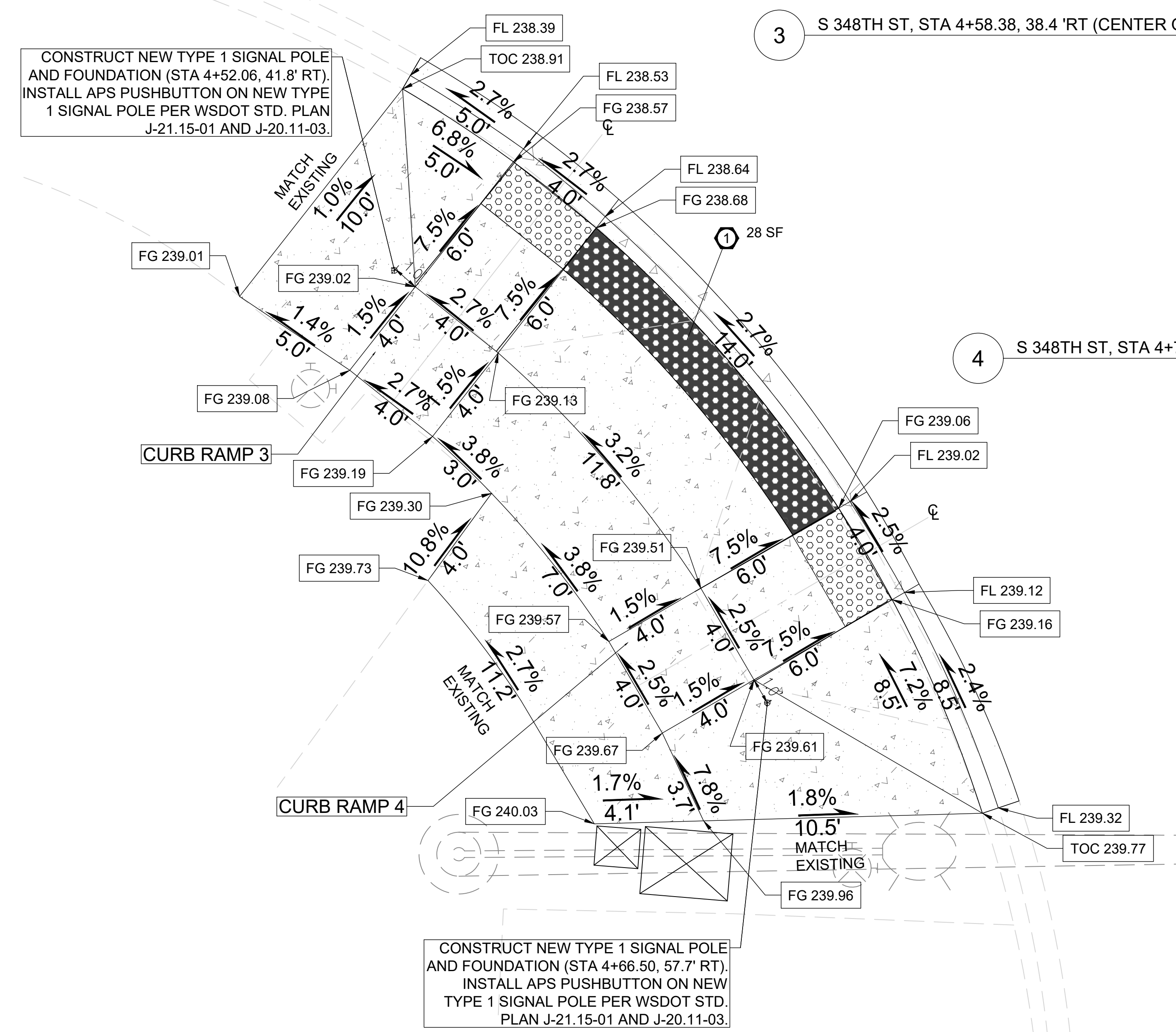
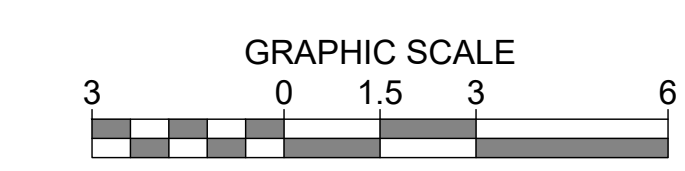
S 348TH ST NHS PRESERVATION PROJECT

RAMP 1,2

CITY PROJECT #:
36241

SHEET
R 1,2

12 OF 31



CONSTRUCT NEW TYPE 1 SIGNAL POLE AND FOUNDATION (STA 4+52.06, 41.8' RT). INSTALL APS PUSHBUTTON ON NEW TYPE 1 SIGNAL POLE PER WSDOT STD. PLAN J-21.15-01 AND J-20.11-03.

CONSTRUCT NEW TYPE 1 SIGNAL POLE AND FOUNDATION (STA 4+66.50, 57.7' RT). INSTALL APS PUSHBUTTON ON NEW TYPE 1 SIGNAL POLE PER WSDOT STD. PLAN J-21.15-01 AND J-20.11-03.

3 S 348TH ST, STA 4+58.38, 38.4' RT (CENTER OF CURB RAMP, FACE OF CURB)

4 S 348TH ST, STA 4+70.57, 51.73' RT (CENTER OF CURB RAMP, FACE OF CURB)

CONSTRUCTION NOTES

- ① BLACK DETECTABLE WARNING SURFACE

FL = GUTTER FLOW LINE
TOC = TOP OF CURB
FG = FINISH GRADE

CURB RAMP NOTES

- SLOPES SHOWN IN PLAN VIEW, RAMP LAYOUT AND RAMP LENGTH FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS AND CONSTRUCT CURB RAMPS TO MEET ADA REQUIREMENTS.
- DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ANY PART OF THE CURB RAMP OR LANDING.
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- INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD PLAN F-45.10-02.
- CURB RAMP, LANDING, AND FLARES SHALL RECEIVE BROOM FINISH. SEE STANDARD SPECIFICATIONS 8-14.
- CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS IS INCIDENTAL TO CURB RAMP BID ITEM(S).

LEGEND

- DETECTABLE WARNING SURFACE
- CEMENT CONC. SIDEWALK

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REVIEWED: C.MULLEN
APPROVED: C.MULLEN

CHRISTINE J. MULLEN
STATE OF WASHINGTON
3904
REGISTERED
PROFESSIONAL ENGINEER
23-JUN-2023

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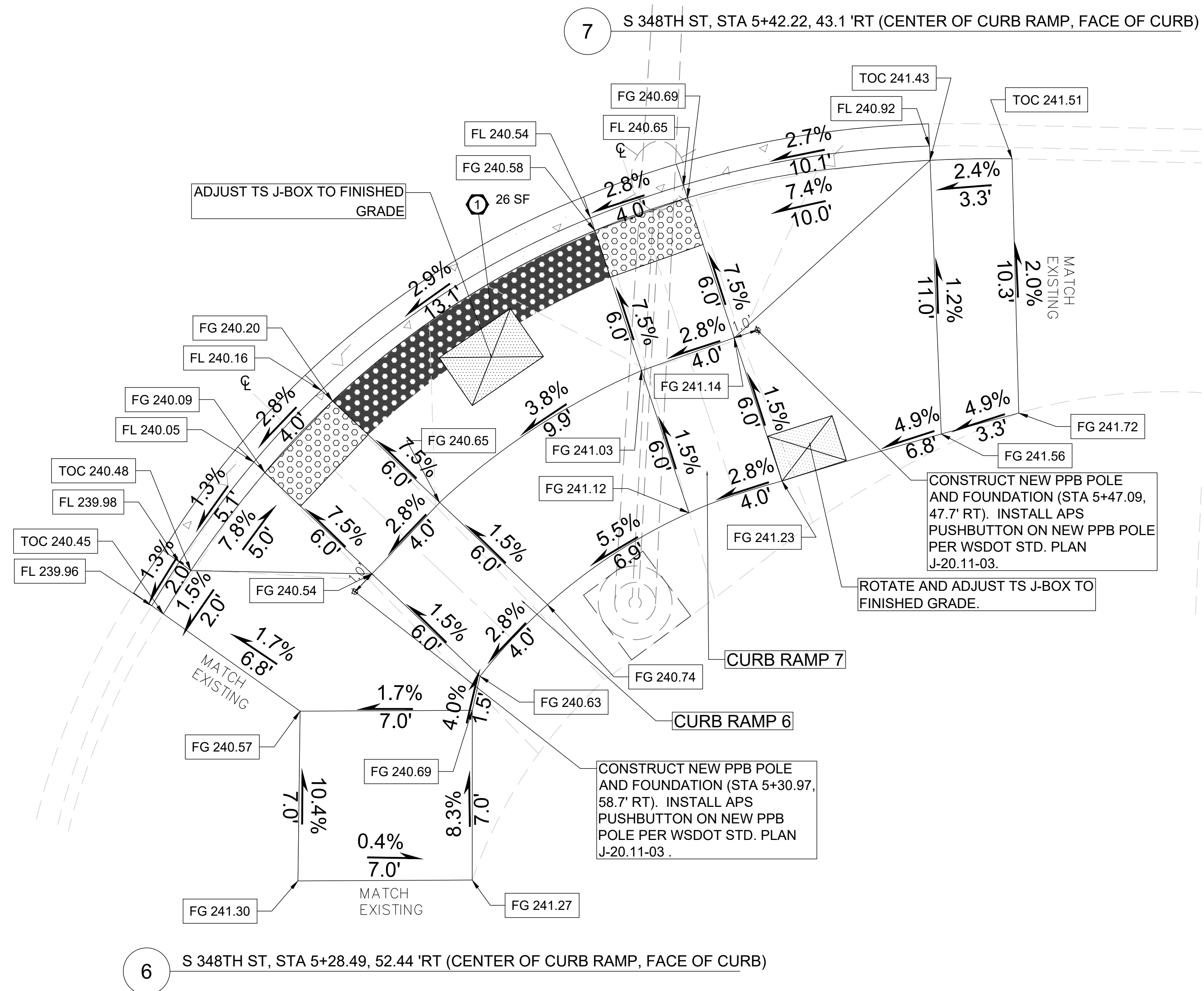
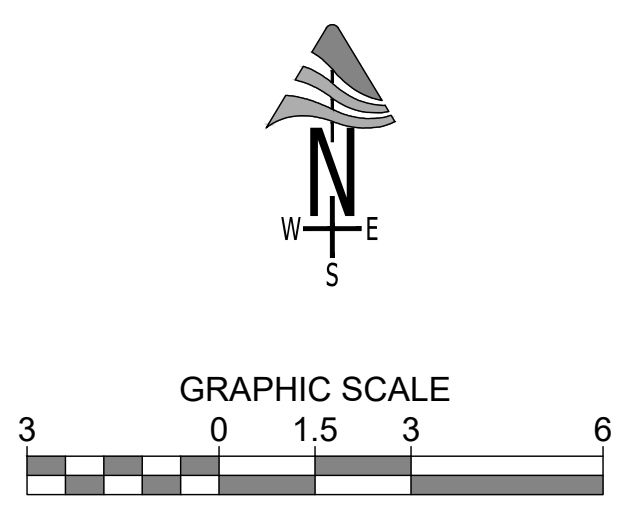
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RAMP 3,4

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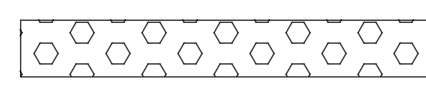
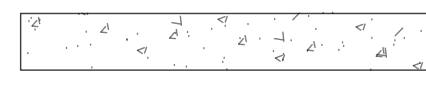
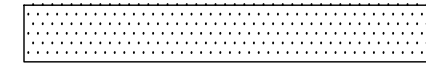
13 OF 31



CONSTRUCTION NOTES

- ① BLACK DETECTABLE WARNING SURFACE

LEGEND

-  DETECTABLE WARNING SURFACE
-  CEMENT CONC. SIDEWALK
-  NON-SLIP MMA COATING

FL = GUTTER FLOW LINE
 TOC = TOP OF CURB
 FG = FINISH GRADE

CURB RAMP NOTES

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6. CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS IS INCIDENTAL TO CURB RAMP BID ITEM(S).

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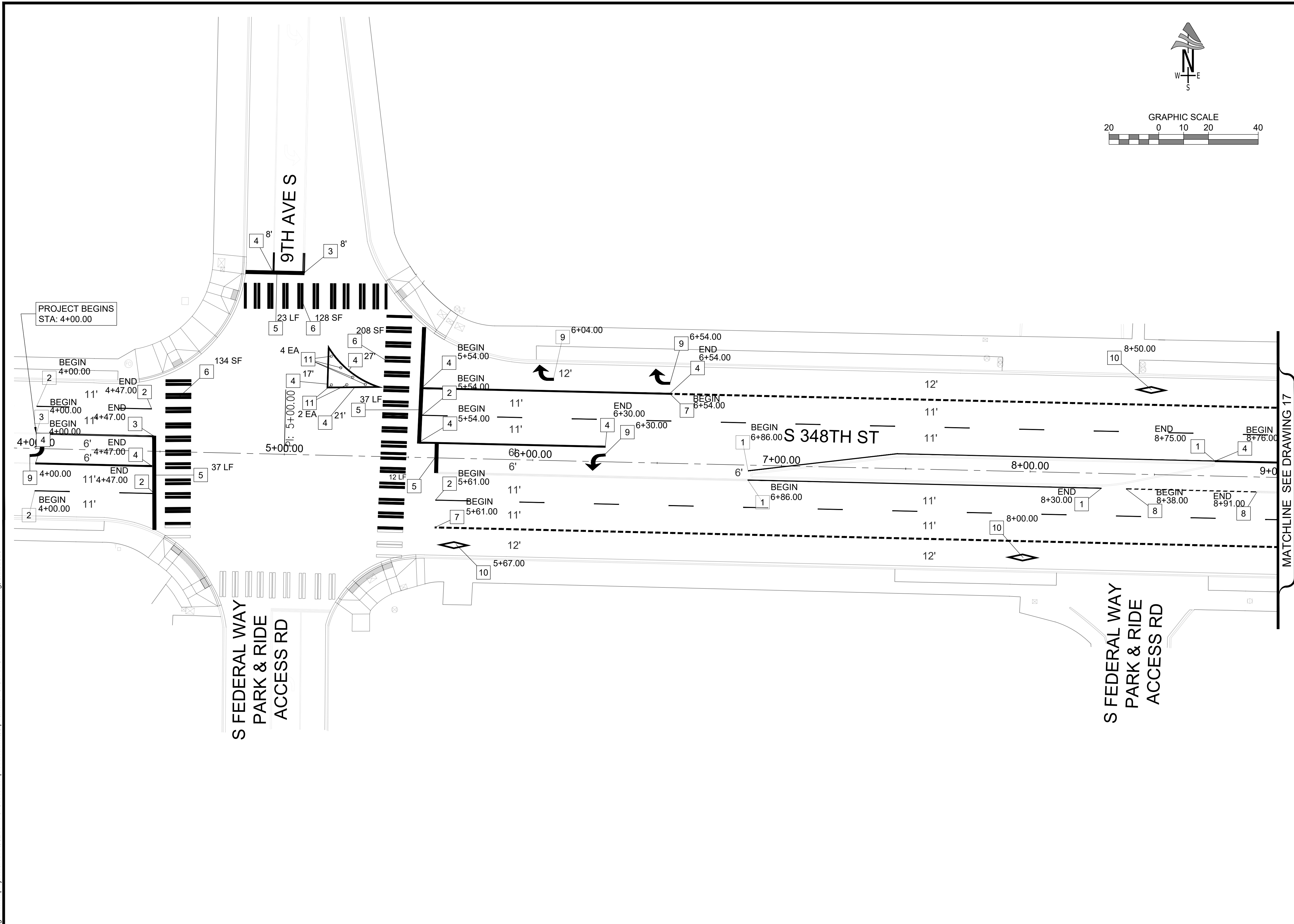
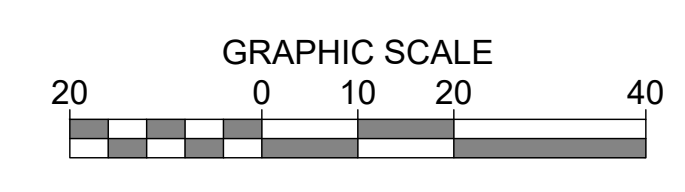
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S 348TH ST NHS PRESERVATION PROJECT
RAMP 6,7

CITY PROJECT #:
36241
 SHEET
R 6,7
 15 OF 31



PAVEMENT MARKING CONSTRUCTION NOTES:

- 1 4" PLASTIC EDGE LINE (MATERIAL TYPE D)
- 2 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
- 3 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
- 4 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
- 5 PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 6 PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 7 PROFILED PLASTIC DOTTED WIDE LINE (MATERIAL TYPE D)
- 8 PLASTIC DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-3.30-04
- 9 PLASTIC TRAFFIC ARROW TYPE 2SL PER WSDOT STD. PLAN M-24.40-02
- 10 HOV LANE SYMBOL PER WSDOT STA. PLAN M-7.50-01
- 11 TUBULAR MARKER
- 12 HYDRANT MARKER TYPE 2B

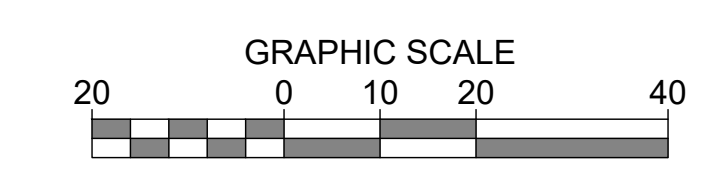
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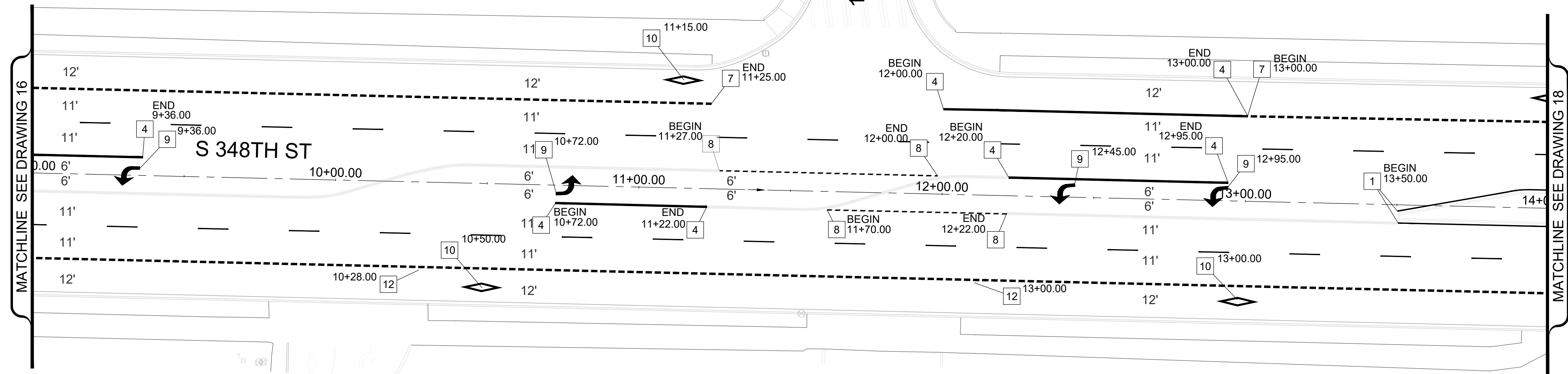
S 348TH ST NHS PRESERVATION PROJECT
CHANNELIZATION PLAN
 STA 4+00-9+00

CITY PROJECT #:
36241
 SHEET
CHAN 1
 16 OF 31



11TH AVE S

S 348TH ST



PAVEMENT MARKING CONSTRUCTION NOTES:

- 1 4" PLASTIC EDGE LINE (MATERIAL TYPE D)
- 2 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
- 3 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
- 4 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
- 5 PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 6 PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 7 PROFILED PLASTIC DOTTED WIDE LINE (MATERIAL TYPE D)
- 8 PLASTIC DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-3.30-04
- 9 PLASTIC TRAFFIC ARROW TYPE 2SL PER WSDOT STD. PLAN M-24.40-02
- 10 HOV LANE SYMBOL PER WSDOT STA. PLAN M-7.50-01
- 11 TUBULAR MARKER
- 12 HYDRANT MARKER TYPE 2B

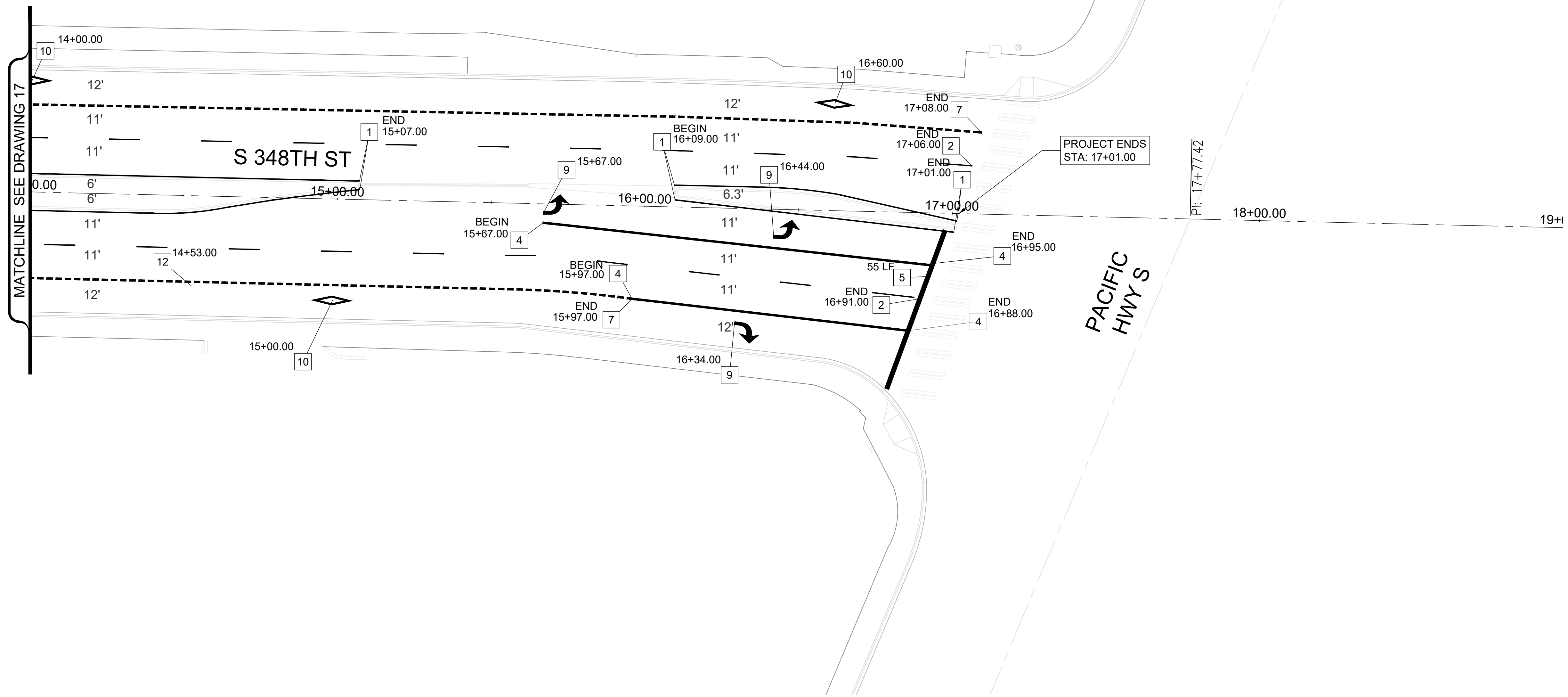
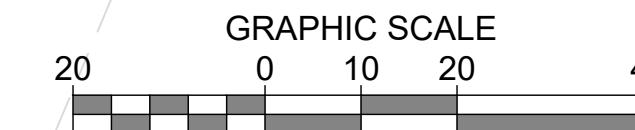
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S 348TH ST NHS PRESERVATION PROJECT
CHANNELIZATION PLAN
 STA 9+00-14+00

CITY PROJECT #:
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CHAN 2
 17 OF 31



PAVEMENT MARKING CONSTRUCTION NOTES:

- 1 4" PLASTIC EDGE LINE (MATERIAL TYPE D)
- 2 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
- 3 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
- 4 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
- 5 PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 6 PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 7 PROFILED PLASTIC DOTTED WIDE LINE (MATERIAL TYPE D)
- 8 PLASTIC DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-3.30-04
- 9 PLASTIC TRAFFIC ARROW TYPE 2SL PER WSDOT STD. PLAN M-24.40-02
- 10 HOV LANE SYMBOL PER WSDOT STA. PLAN M-7.50-01
- 11 TUBULAR MARKER
- 12 HYDRANT MARKER TYPE 2B

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DESIGNED: J.HUYNH
REVIEWED: C.MULLEN
APPROVED: C.MULLEN

CHRISTINE J. MULLEN
STATE OF WASHINGTON
39904
REGISTERED
PROFESSIONAL ENGINEER
23-JUN-2023

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S 348TH ST NHS PRESERVATION PROJECT
CHANNELIZATION PLAN
STA 14+00-19+00

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CHAN 3
18 OF 31

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'.

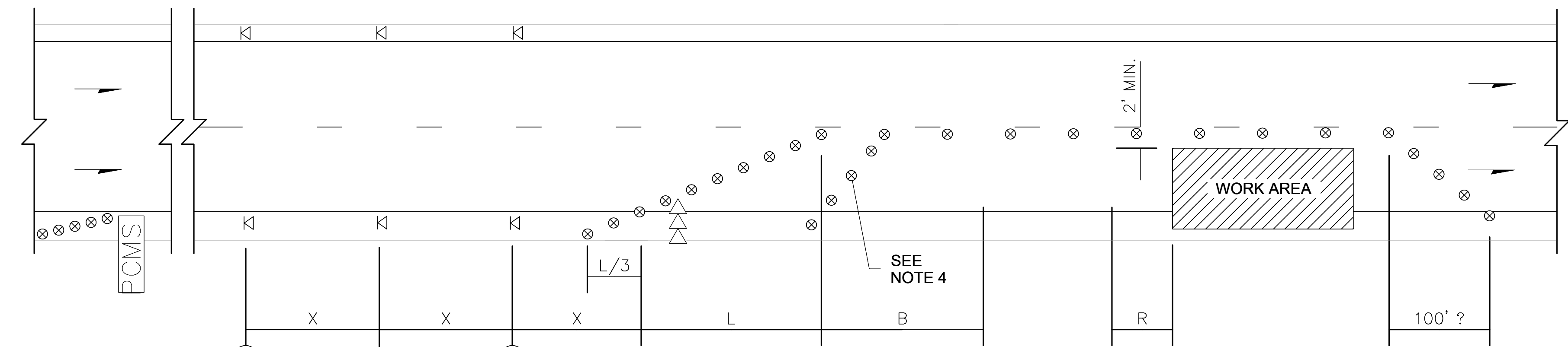
SIGN SPACING = X (1)		
FREeways & EXPRESSWAYS	55 / 70 MPH	1500' □
RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' □ (2)
URBAN STREETS	25 MPH OR LESS	100' □ (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPs, 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										
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

BUFFER VEHICLE ROLL AHEAD DISTANCE = R	
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.	30 FEET MIN. TO 100 FEET MAX.



PCMS	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE □ IN ADVANCE OF LANE CLOSURE SIGNING.

- LEGEND**
- ⊠ TEMPORARY SIGN LOCATION
 - ⊗ TRAFFIC SAFETY DRUM
 - ⇨⇨ SEQUENTIAL ARROW SIGN
 - PCMS PORTABLE CHANGEABLE MESSAGE SIGN

SINGLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

NOT TO SCALE

NOTES:

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
3. DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANE.
4. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' (FT) (RECOMMENDED).
5. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
6. ALL SIGNS ARE BLACK ON ORANGE.

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DESIGNED: J.HUYNH
REVIEWED: C.MULLEN
APPROVED: C.MULLEN

CHRISTINE J. MULLEN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
23-JUN-2023

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SINGLE LANE CLOSURE

CITY PROJECT #:
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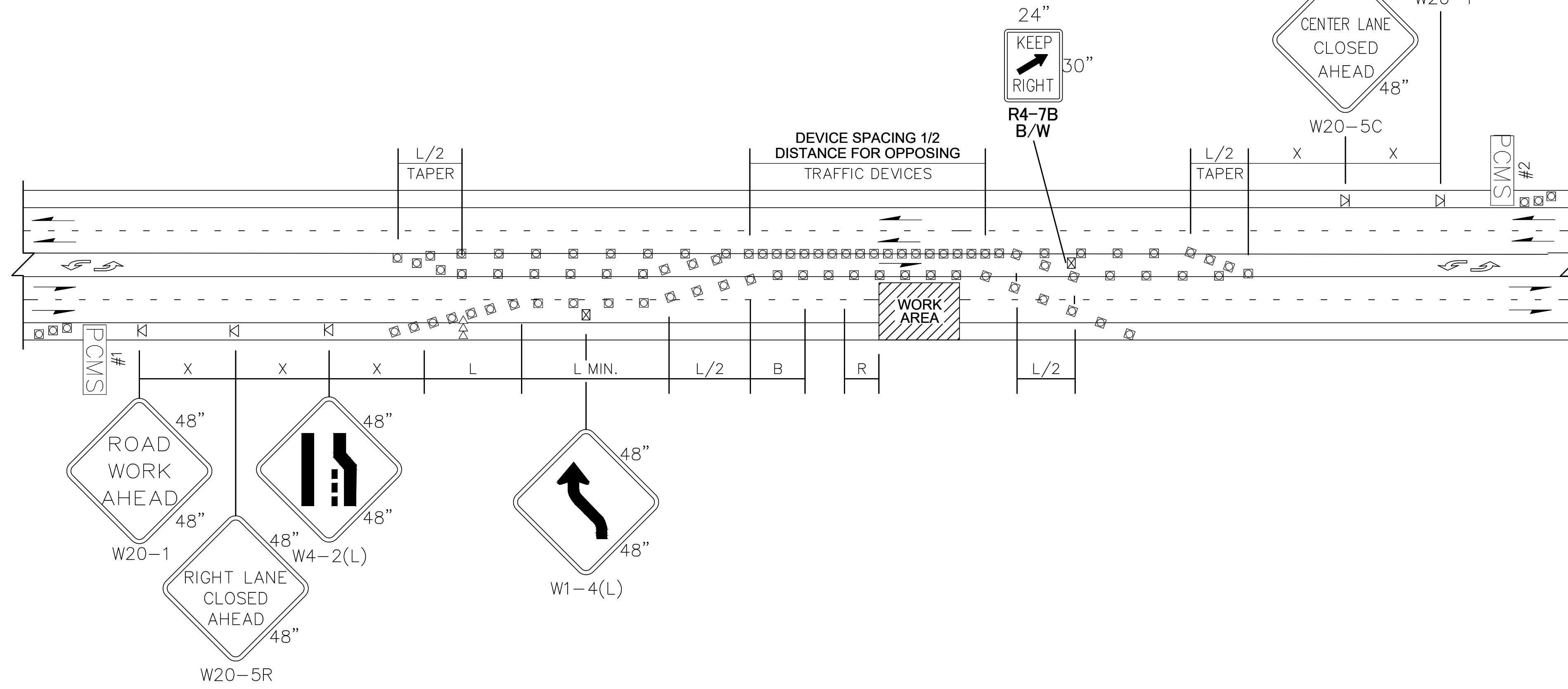
SIGN SPACING = X (1)		
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' □ (2)

(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.

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

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50	40	80
35/45	30	60
25/30	20	40

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	-	-	-	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.								30 FEET MIN. TO 100 FEET MAX.		
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.								NO SPECIFIED DISTANCE REQUIRED		



PCMS #1	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

PCMS #2	
1	2
CENTER LANE CLOSED	NNO LEFT TURNING
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

- LEGEND**
- ⊓ TEMPORARY SIGN LOCATION
 - CHANNELIZING DEVICES
 - ⇒ SEQUENTIAL ARROW SIGN
 - PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 - ⊓ TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

RIGHT LANE CLOSURE WITH SHIFT - 5 LANE ROADWAY

NOT TO SCALE

NOTES:

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- FOR POSTED SPEED LIMITS OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

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DESIGNED: J.HUYNH
REVIEWED: C.MULLEN
APPROVED: C.MULLEN

CHRISTINE J. MULLEN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
23-JUN-2023

DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

S 348TH ST NHS PRESERVATION PROJECT

RIGHT LANE CLOSURE

CITY PROJECT #: 36241
SHEET TCP 2
20 OF 31

\\c:\file\department\pww\engineering\division\project\active\36241 - s 348th st nhs preservation\03_pelacado\36241 - s 348th st nhs preservation.dwg, 6/21/2023

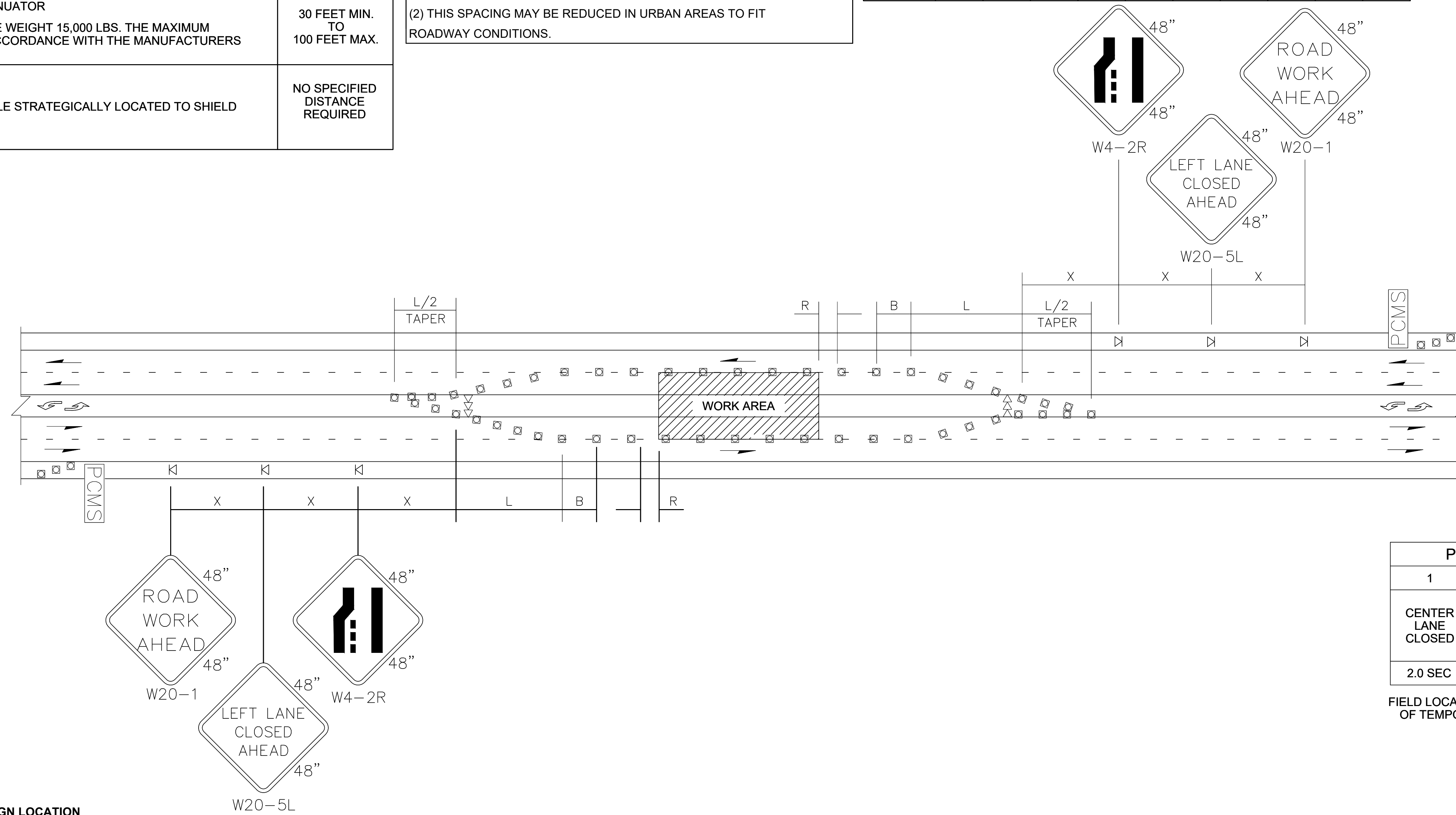
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	-	-	-	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.								30 FEET MIN. TO 100 FEET MAX.		
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.								NO SPECIFIED DISTANCE REQUIRED		

SIGN SPACING = X (1)		
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' □ (2)
URBAN STREETS	25 MPH OR LESS	100' □ (2)

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

MINIMUM 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	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50	40	80
35/45	30	60
25/30	20	40



PCMS	
1	2
CENTER LANE CLOSED	NNO LEFT TURNING
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

LEGEND

- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN

LEFT LANE AND CENTER TURN LANE CLOSURE - 5 LANE ROADWAY

NOT TO SCALE

NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. ALL SIGNS ARE BLACK ON ORANGE.

DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

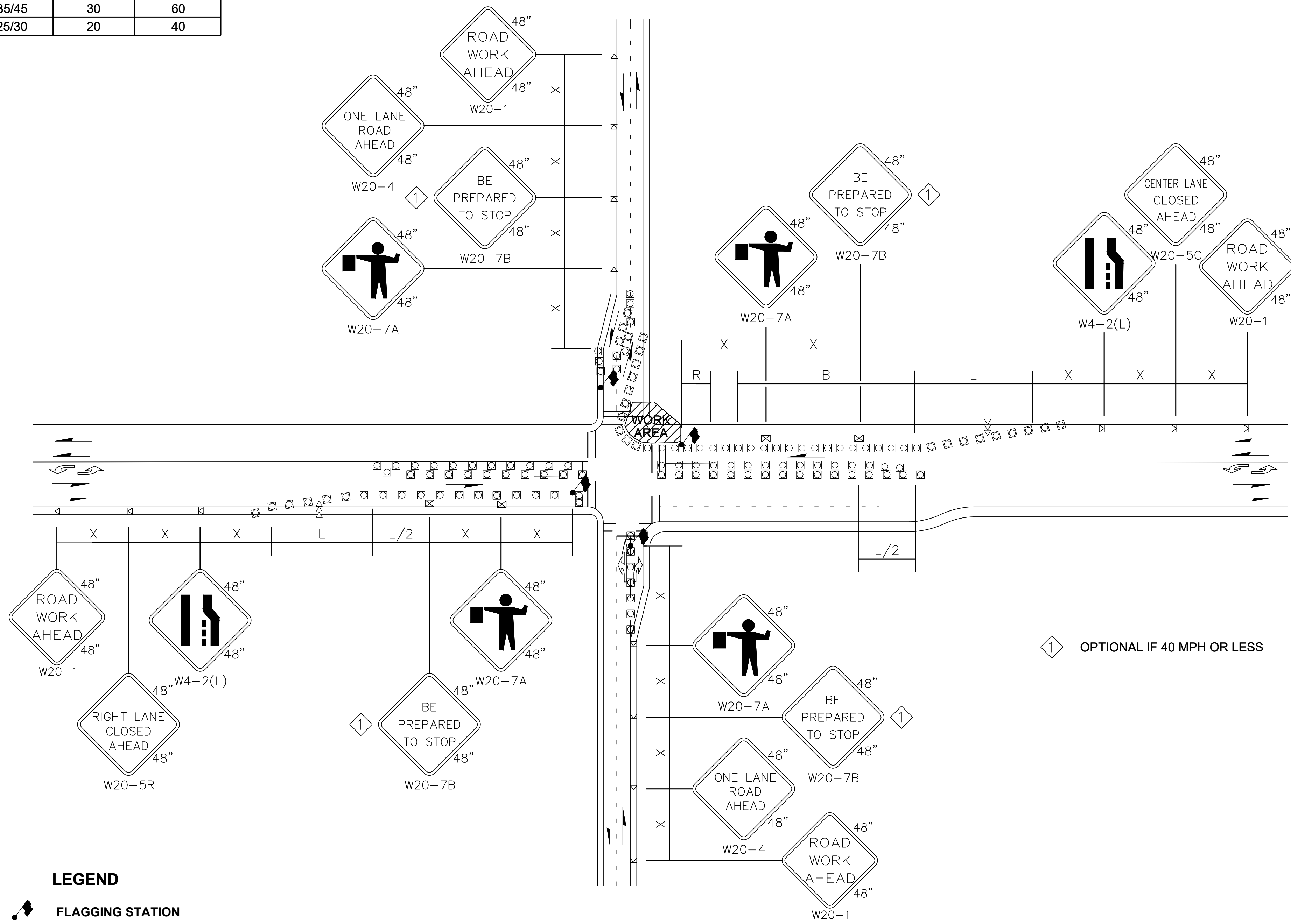
CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.									30 FEET MIN. TO 100 FEET MAX.	
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.									NO SPECIFIED DISTANCE REQUIRED	

MINIMUM 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	-	-

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' □ (2)
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.



① OPTIONAL IF 40 MPH OR LESS

INTERSECTION LANE CLOSURE ~ FIVE LANE ROADWAY

NOT TO SCALE

NOTES

- RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" OR TURNED OFF DURING FLAGGING OPERATIONS.
- MAINTAIN A MINIMUM OF ONE ACCESS POINT FOR EACH BUSINESS WITHIN WORK AREA LIMITS.
- ALL SIGNS ARE BLACK ON ORANGE.

LEGEND

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

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CHRISTINE J. MULLEN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
23-JUN-2023

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NO.	DATE	REVISION

S 348TH ST NHS PRESERVATION PROJECT

INTERSECTION LANE CLOSURE

CITY PROJECT #:
36241

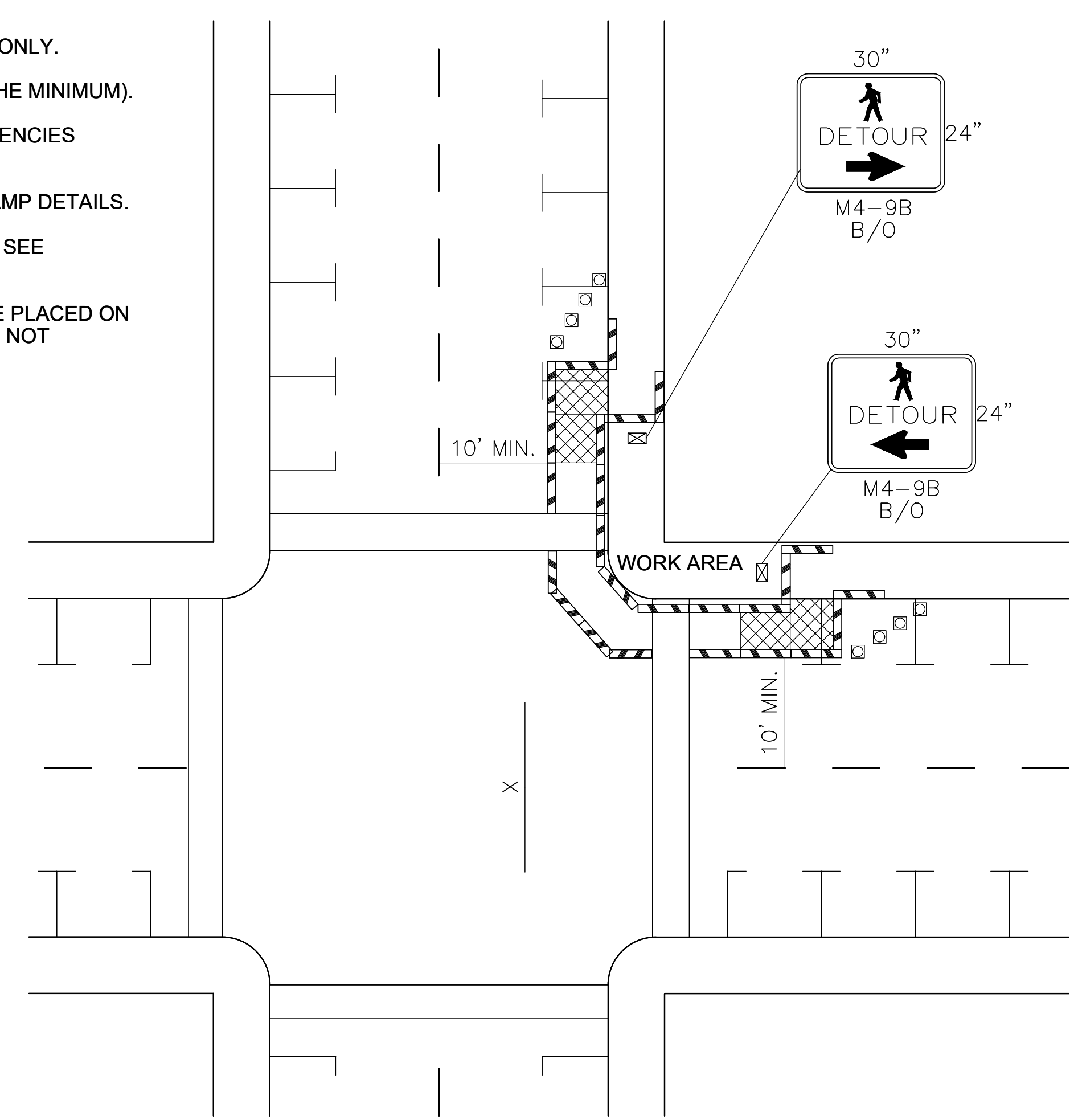
SHEET
TCP 4

22 OF 31

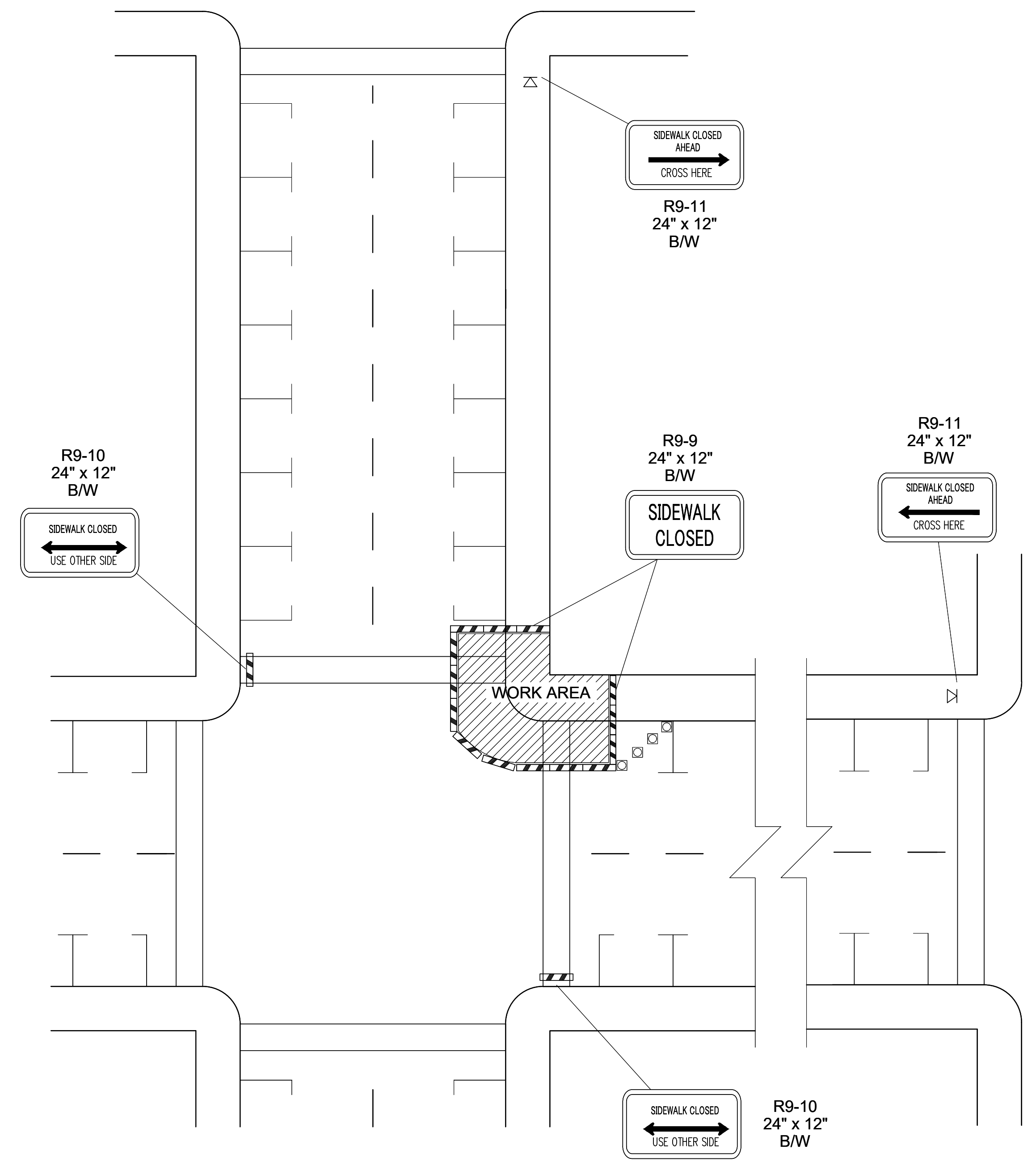
NO PARKING R8-3 24" x 30" R/W
 INSTALL ON TYPE 2 BARRICADES THROUGHOUT THE WORK AREA 24 HOURS PRIOR TO IMPLEMENTING TRAFFIC CONTROL. PRIOR NOTIFICATION OF LOCAL LAW ENFORCEMENT REQUIRED.

NOTES

1. CONTROLS SHOWN ARE FOR PEDESTRIAN TRAFFIC ONLY.
2. A 60" PATH WIDTH SHOULD BE MAINTAINED (48" IS THE MINIMUM).
3. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
4. SEE SHEET TC-52 FOR TEMPORARY PEDESTRIAN RAMP DETAILS.
5. ADA PEDESTRIAN FACILITIES MUST BE MAINTAINED. SEE STANDARD SPECIFICATION 1-10.2(1)B.
6. TEMPORARY PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ON THE DIVERTED PATH WHEN EXISTING BUTTONS ARE NOT ACCESSIBLE TO PEDESTRIANS.



SIDEWALK DIVERSION



SIDEWALK DETOUR

INTERSECTION PEDESTRIAN TRAFFIC CONTROL

NOT TO SCALE

LEGEND

- ⚡ TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- ▨ PEDESTRIAN CHANNELIZING DEVICES
- TEMPORARY PEDESTRIAN RAMP FOR SIDEWALKS

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 STATE OF WASHINGTON
 REGISTERED PROFESSIONAL ENGINEER
 23-JUN-2023

DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

S 348TH ST NHS PRESERVATION PROJECT
INTERSECTION PEDESTRIAN TRAFFIC CONTROL

CITY PROJECT #:
36241
 SHEET
TCP 5
 23 OF 31

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6TH AVE S

S 348TH ST

SIGN SPACING = X (1)

RURAL ROADS	45X55 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.

MINIMUM 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	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

END ROAD WORK

ROAD WORK AHEAD

LEFT LANE CLOSED AHEAD

ROAD WORK AHEAD

PCMS

PCMS Message
 X/XX
 8:00PM-5:00AM
 S 348 ST
 PAVING WORK
 EXPECT DELAYS

WORK HOURS
 CEMENT CONCRETE WORK
 Monday-Friday
 8:30 AM-3:30 PM
 OTHER WORK
 Sunday-Friday
 8:00 PM-5:00 AM

LEGEND

- FLAGGER
- TEMPORARY SIGN LOCATION
- SEQUENTIAL ARROW SIGN
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

MATCHLINE SEE DRAWING 25



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 DESIGNED: J.HUYNH
 REVIEWED: C.MULLEN
 APPROVED: C.MULLEN

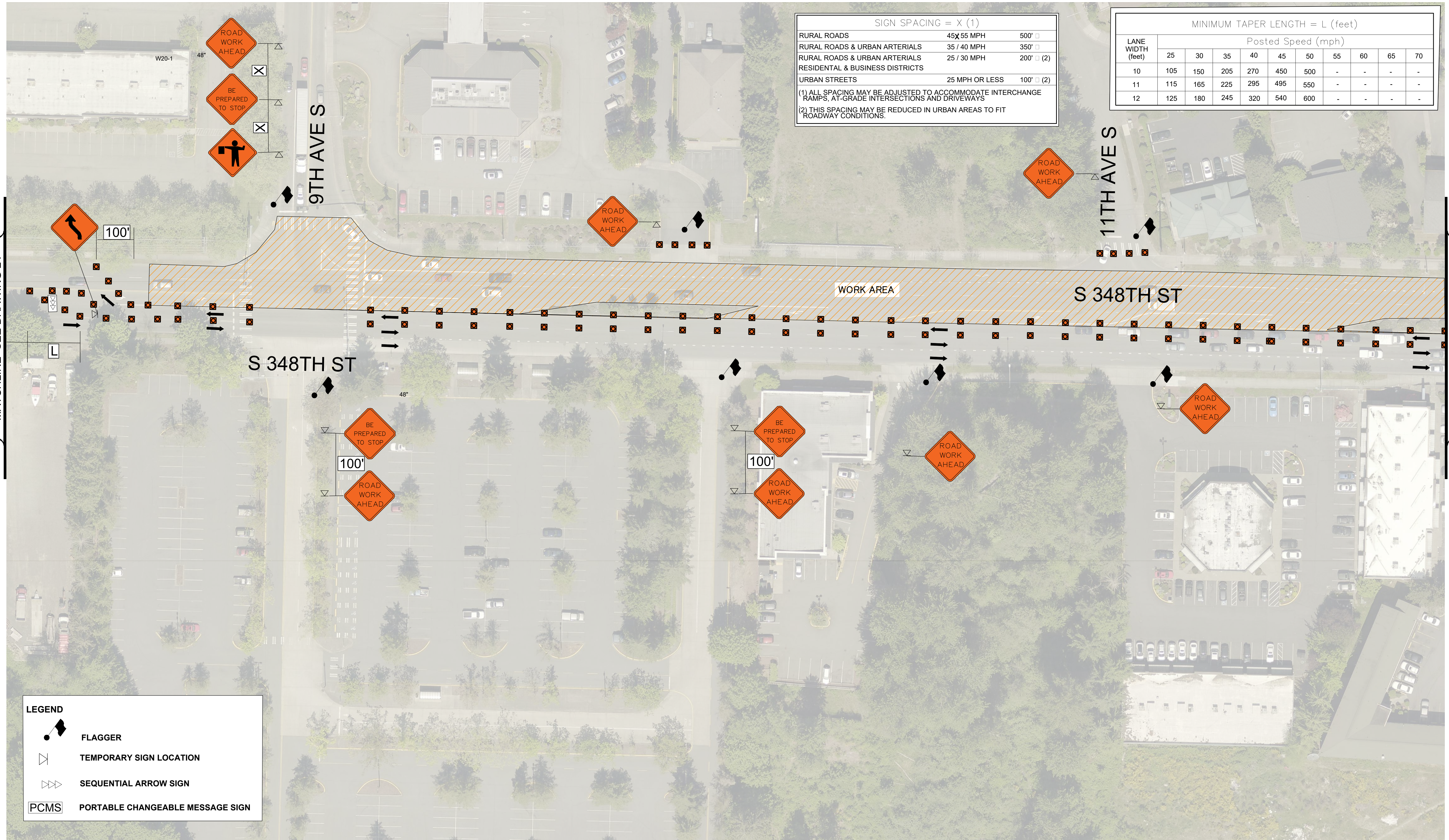


DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

S 348TH ST NHS PRESERVATION PROJECT
 TCP PHASE I

CITY PROJECT #: 36241
 SHEET TCP1-WB
 24 OF 31



SIGN SPACING = X (1)

RURAL ROADS	45x55 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
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MINIMUM 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	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

LEGEND

- FLAGGER
- TEMPORARY SIGN LOCATION
- SEQUENTIAL ARROW SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN

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 DESIGNED: J.HUYNH
 REVIEWED: C.MULLEN
 APPROVED: C.MULLEN

CHRISTINE J. MULLEN
 STATE OF WASHINGTON
 3904 REGISTERED
 PROFESSIONAL ENGINEER
 23-JUN-2023

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NO.	DATE	REVISION

S 348TH ST NHS PRESERVATION PROJECT

TCP PHASE I

CITY PROJECT #: 36241
 SHEET: TCP2-WB
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MATCHLINE SEE DRAWING 26

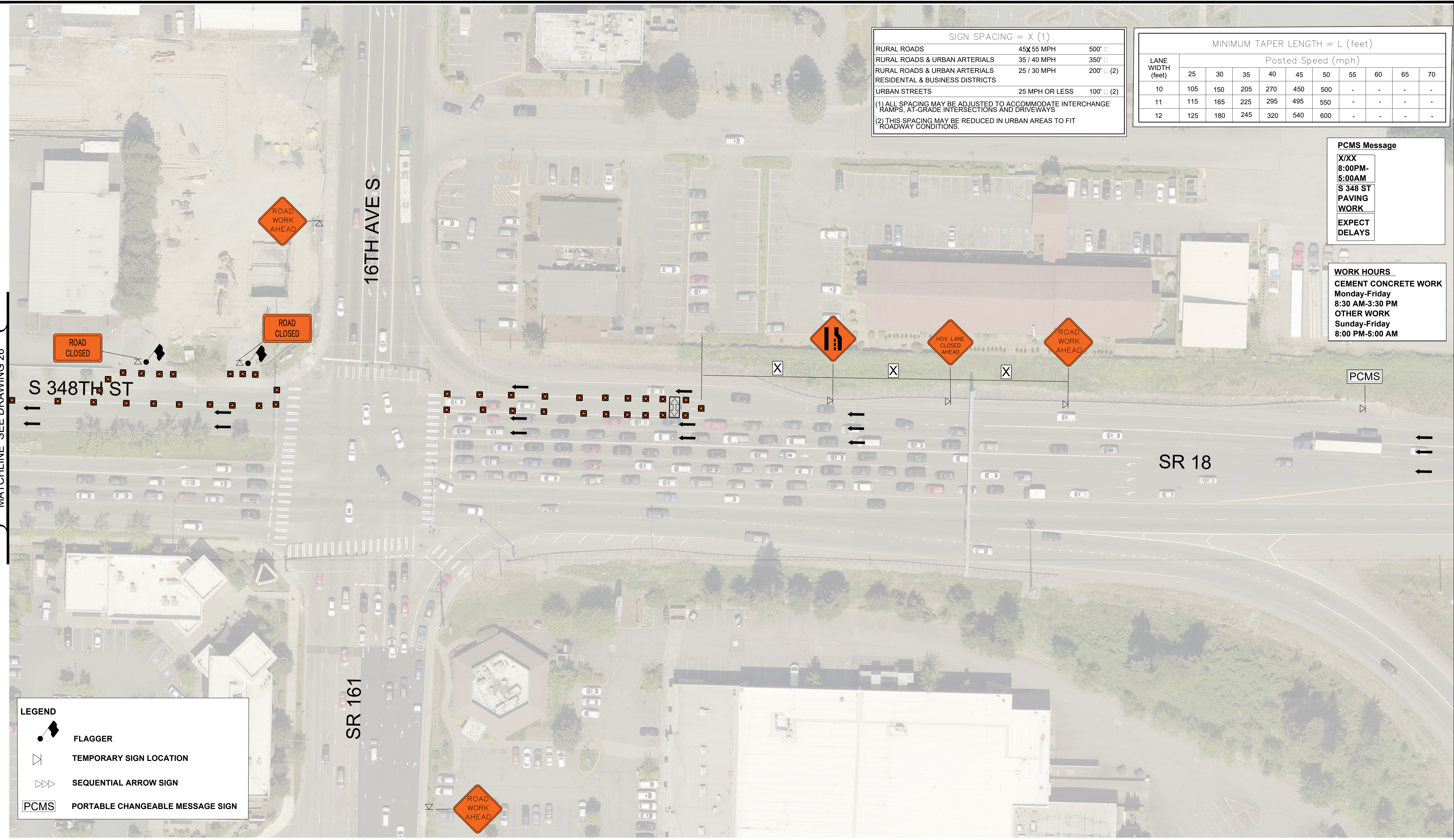
SIGN SPACING = X (1)		
RURAL ROADS	45X55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' □ (2)

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 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM 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	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

PCMS Message
 X/XX
 8:00PM-5:00AM
 S 348 ST
 PAVING WORK
 EXPECT DELAYS

WORK HOURS
 CEMENT CONCRETE WORK
 Monday-Friday
 8:30 AM-3:30 PM
 OTHER WORK
 Sunday-Friday
 8:00 PM-5:00 AM



LEGEND

	FLAGGER
	TEMPORARY SIGN LOCATION
	SEQUENTIAL ARROW SIGN
	PORTABLE CHANGEABLE MESSAGE SIGN

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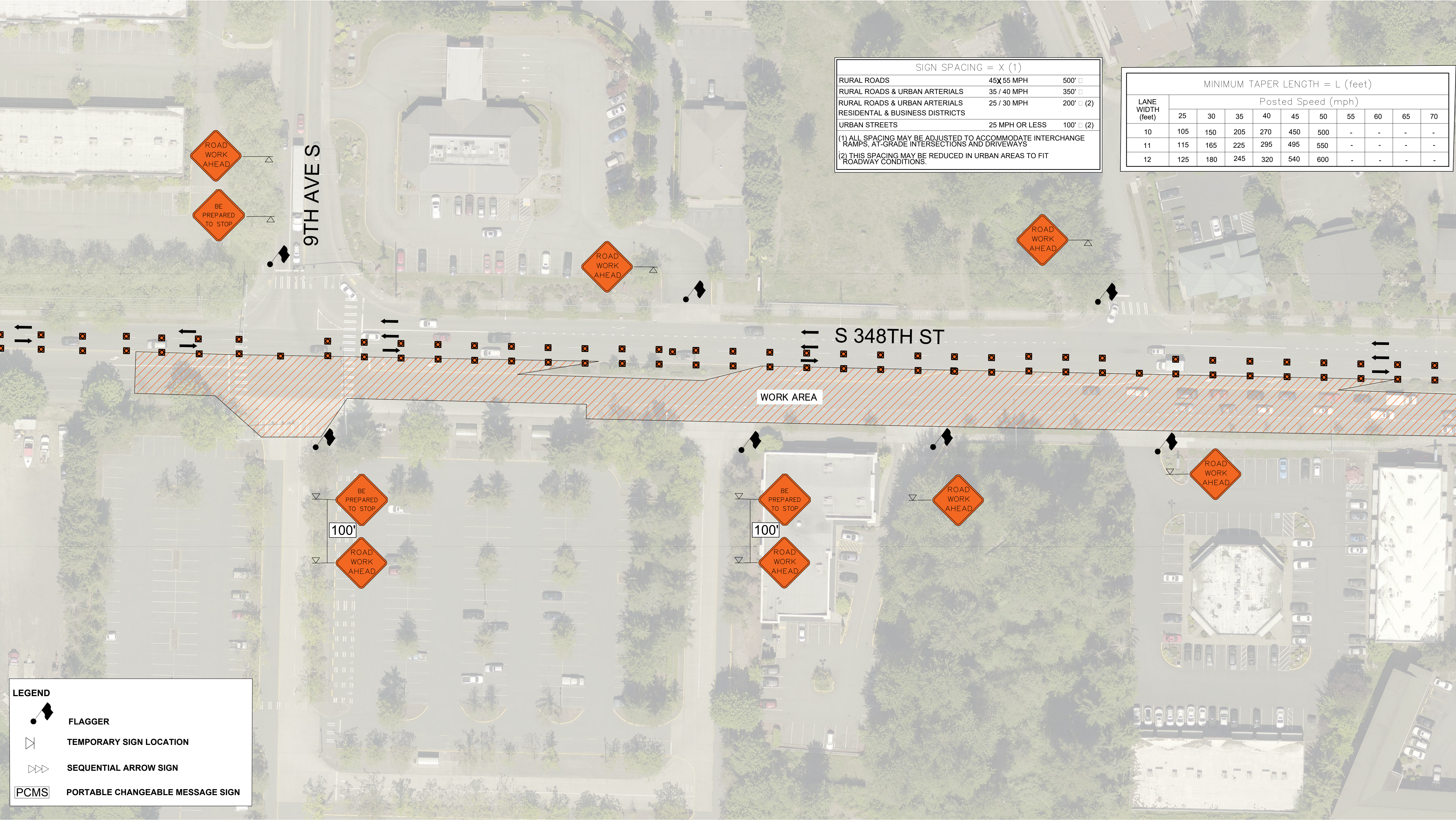
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S 348TH ST NHS PRESERVATION PROJECT
 TCP PHASE I

CITY PROJECT #:
 36241
 SHEET
 TCP4-WB
 27 OF 31



SIGN SPACING = X (1)

RURAL ROADS	45 / 55 MPH	500' (1)
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' (1)
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.

MINIMUM 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	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

MATCHLINE SEE DRAWING 28

MATCHLINE SEE DRAWING 30

LEGEND

- FLAGGER
- TEMPORARY SIGN LOCATION
- SEQUENTIAL ARROW SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN

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 PROFESSIONAL ENGINEER
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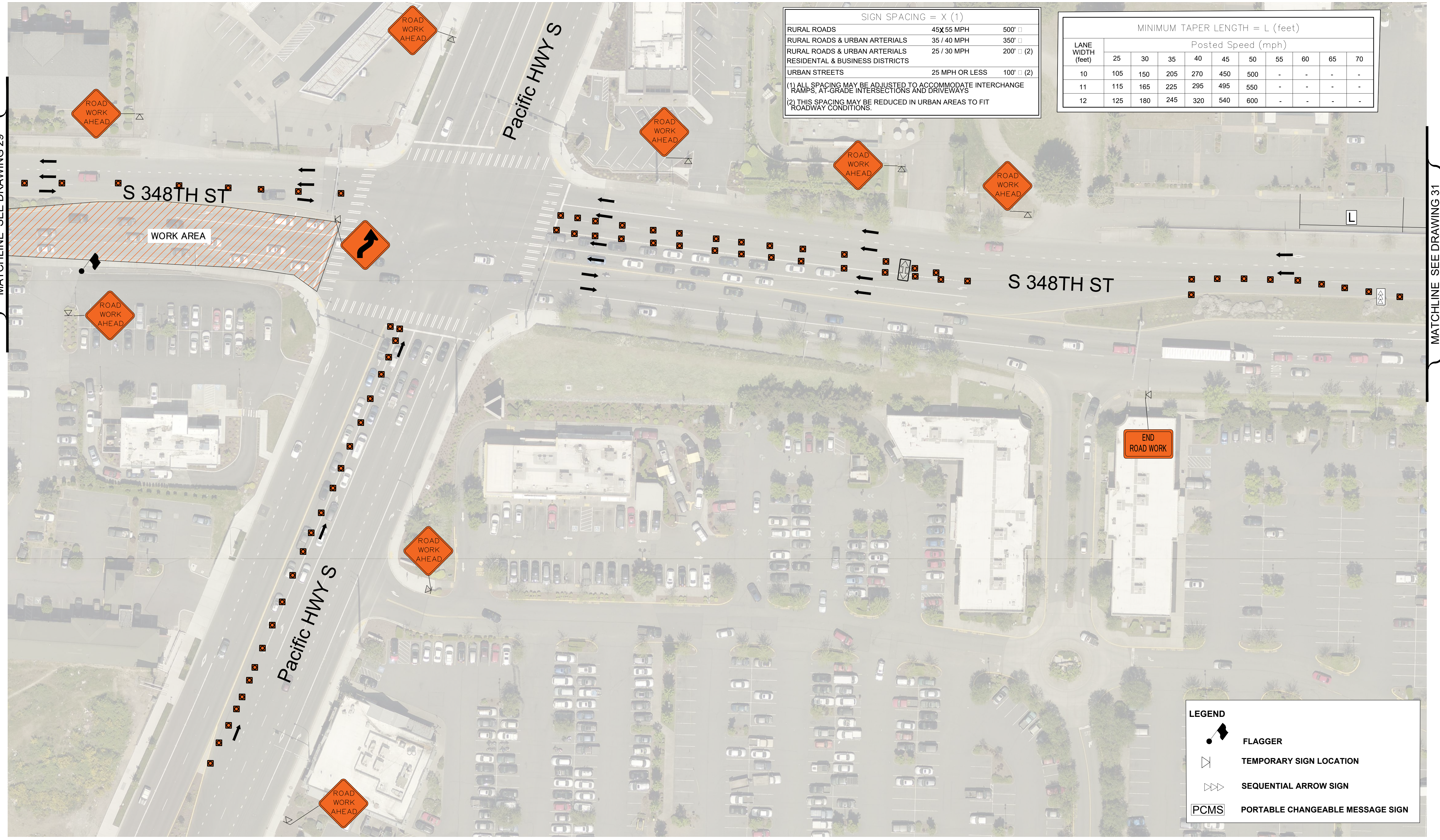
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S 348TH ST NHS PRESERVATION PROJECT
 TCP PHASE II

CITY PROJECT #: 36241
 SHEET TCP2-EB
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SIGN SPACING = X (1)

RURAL ROADS	45X 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)

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10	105	150	205	270	450	500	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

LEGEND

- FLAGGER
- TEMPORARY SIGN LOCATION
- SEQUENTIAL ARROW SIGN
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

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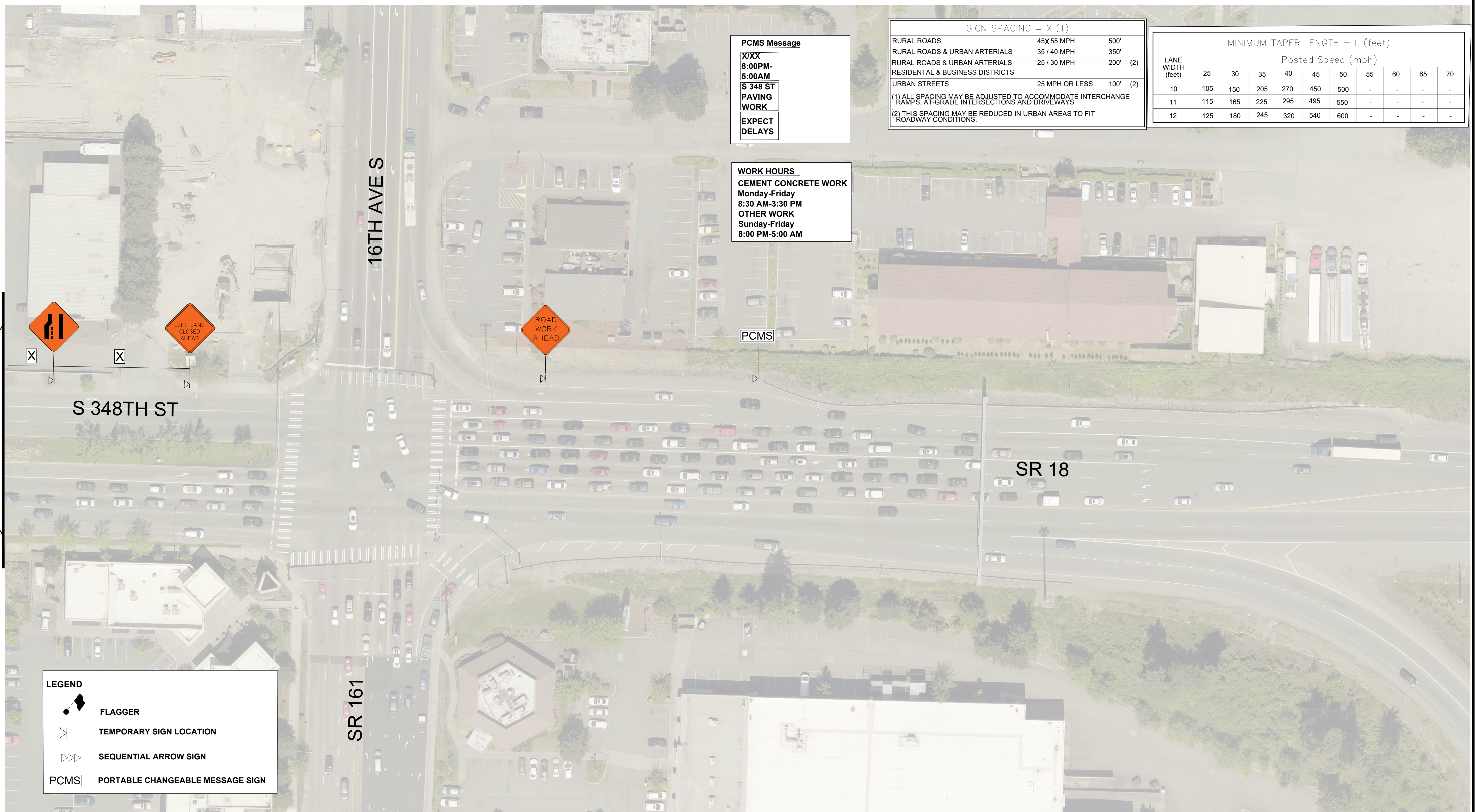
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TCP PHASE II

CITY PROJECT #: 36241
 SHEET TCP3-EB
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MATCHLINE SEE DRAWING 30



PCMS Message
 X/XX
 8:00PM-5:00AM
 S 348 ST
 PAVING WORK
 EXPECT DELAYS

WORK HOURS
 CEMENT CONCRETE WORK
 Monday-Friday
 8:30 AM-3:30 PM
 OTHER WORK
 Sunday-Friday
 8:00 PM-5:00 AM

SIGN SPACING = X (1)

RURAL ROADS	45X55 MPH	500' (1)
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' (1)
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' (2)

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10	105	150	205	270	450	500	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

LEGEND

	FLAGGER
	TEMPORARY SIGN LOCATION
	SEQUENTIAL ARROW SIGN
	PORTABLE CHANGEABLE MESSAGE SIGN

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S 348TH ST NHS PRESERVATION PROJECT
 TCP PHASE II

CITY PROJECT #: 36241
 SHEET TCP4-EB
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