

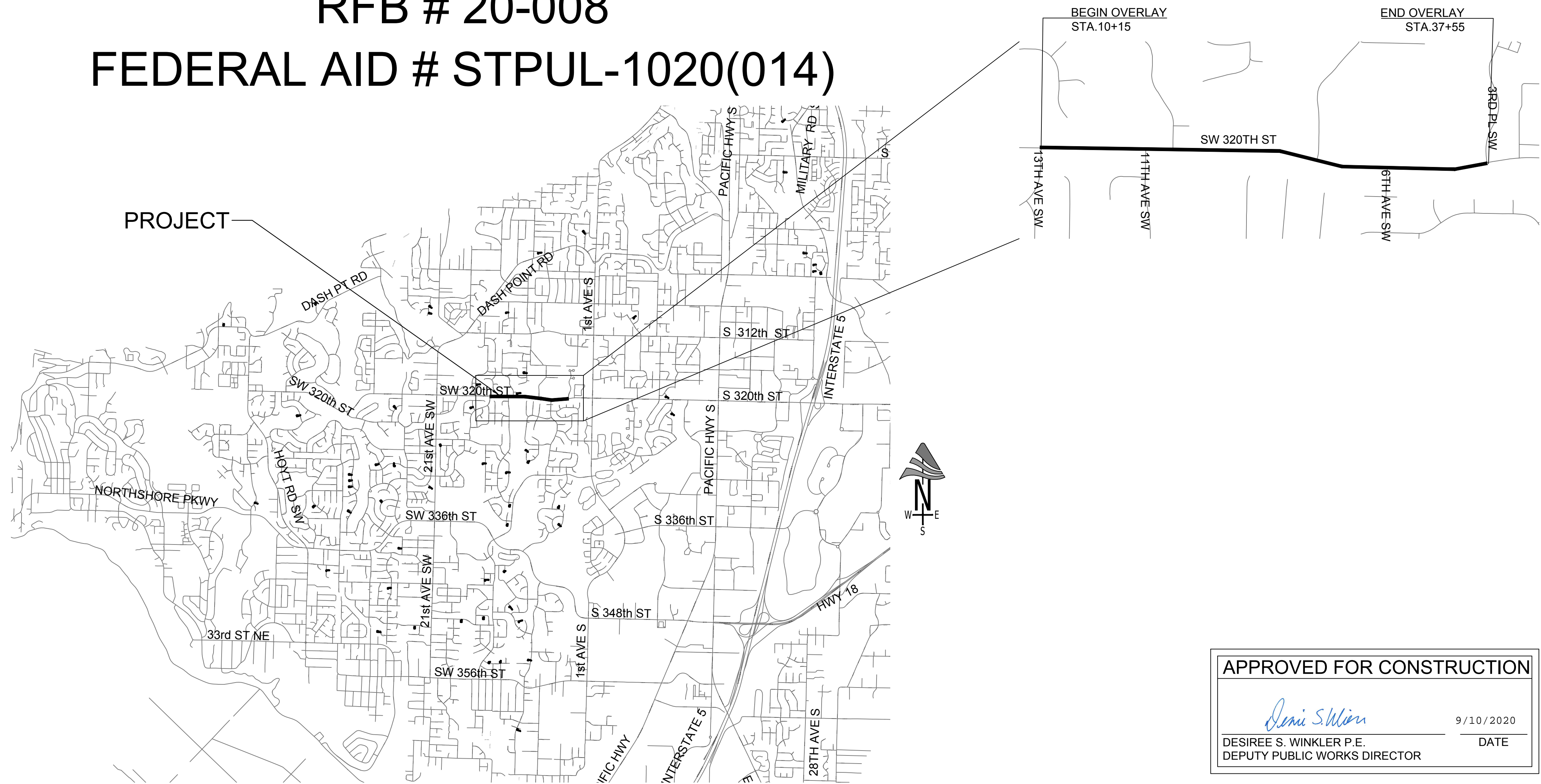
# City of Federal Way Public Works Department SW 320TH STREET PRESERVATION PROJECT

September, 2020

RFB # 20-008

FEDERAL AID # STPUL-1020(014)

DRAWING INDEX		
DWG #	TITLE	LOCATION
GENERAL		
01	COVER SHEET, VICINITY MAP, & DRAWING INDEX	--
02	GENERAL NOTES & LEGEND	--
GENERAL: SECTIONS		
03	SECTIONS AND DETAILS	--
SITE PREP AND PAVING		
04	SITE PREP AND PAVING PLAN	STA 10+00 TO 19+00
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RAMPS		
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DRIVEWAY DESIGN		
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TRAFFIC CONTROL PLAN		
16	TRAFFIC CONTROL PLAN	--
17	TRAFFIC CONTROL PLAN	--
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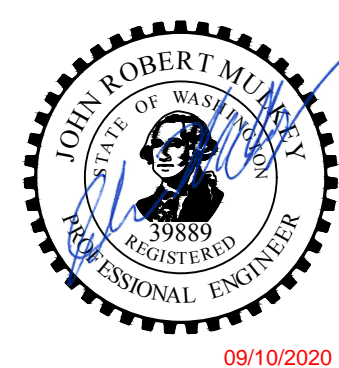
APPROVED FOR CONSTRUCTION

*Desiree S. Winkler* 9/10/2020  
 DESIREE S. WINKLER P.E. DATE  
 DEPUTY PUBLIC WORKS DIRECTOR

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DRAFTED: J. MULKEY  
 DESIGNED: J. MULKEY  
 REVIEWED: S. HAMEL  
 APPROVED: D. WINKLER



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NO.	DATE	REVISION

**PRESERVATION PROJECTS**

**COVER SHEET, VICINITY MAP, & DRAWING INDEX**

**SW 320TH STREET PRESERVATION PROJECT**

**BID SET**

CITY PROJECT #:  
36214

SHT. 01  
OF 18










**NOTE:**

**CONTRACTOR TO INCLUDE FOLLOWING WORK IN BID**

1. ADJUST ALL STORM DRAINAGE MH'S, CB'S, MONUMENT BOXES AND OTHER STRUCTURES NOTED IN THE PLANS TO FINAL PAVEMENT GRADE AFTER OVERLAY. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL OTHER UTILITY APPURTENANCES IN THE AREAS TO BE PAVED.
2. LOCATION AND LIMITS OF CURB RAMP TO BE DETERMINED BY ENGINEER IN THE FIELD.
3. CONTRACTOR SHALL PROVIDE 72 HOURS NOTICE TO PROPERTY OWNERS TO ALLOW PARKING AND ACCESS TO RESIDENCES DURING PLANING AND PAVING OPERATIONS.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND LAYING OUT ALL CHANNELIZATION WHICH SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCIDENTAL TO VARIOUS BID ITEMS OF THE CONTRACT.
5. CONTRACTOR SHALL COORDINATE WORK WITH THE LOCAL GARBAGE DISPOSAL COMPANY TO AVOID CONFLICT.
6. CONTRACTOR SHALL COORDINATE WORK WITH TRANSIT PROVIDERS TO AVOID CONFLICT.

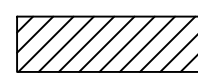

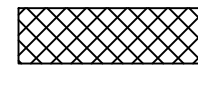
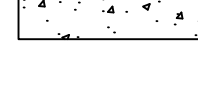
**LEGEND:**

- C/G = EXISTING CURB & GUTTER
- EP = EXISTING EDGE OF PAVEMENT
- TE = EXISTING THICKENED EDGE
-  = MONUMENT CASE
-  = EXISTING FIRE HYDRANT
-  = EXISTING STORM DRAIN CATCH BASIN
-  = EXISTING MANHOLE
-  = EXISTING STORM DRAIN MANHOLE
-  = EXISTING JUNCTION BOX
-  = INLET PROTECTION

**PAVEMENT MARKING CONSTRUCTION NOTES:**

- 1 4" PROFILED PLASTIC TWO WAY LEFT TURN LANE LINE (MATERIAL TYPE D)
- 2 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
- 3 4" PLASTIC LINE (MATERIAL TYPE D)
- 4 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
- 5 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
- 6 PLASTIC TRAFFIC ARROW TYPE 2SL PER WSDOT STD. PLAN M-24.40-02 (MATERIAL TYPE A)
- 7 PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 8 PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 9 PAINT BIKE LANE SYMBOL PER WSDOT STD. PLAN M-9.50-02

**CONSTRUCTION NOTES:**

-  = BUTT JOINT AT STATION OR LOCATION INDICATED. FULL DEPTH AT MATCH LINE AND TRANSITION TO 0" AT DISTANCE DIRECTED BY ENGINEER
-  = PLANE WIDTH AS INDICATED. FULL DEPTH AT FACE OF GUTTER
-  = DIG OUT AND REPAIR ROAD SECTION PER SECTIONS & DETAILS SHEET 42 OF 44
-  = CONCRETE WORK
- 1 SAWCUT ASPHALT PAVEMENT OR CONCRETE
- 2 ADJUST MANHOLE
- 3 ADJUST CATCH BASIN
- 4 INSTALL HEAVY DUTY FRAME AND LID PER SECTION 7-XX OF THE SPECIAL PROVISIONS
- 5 ADJUST MONUMENT CASE AND COVER
- 6 ADJUST UTILITY
- 7 ADJUST UTILITY BY OTHERS
- 8 CEMENT CONC. CURB RAMP TYPE 1 PARALLEL
- 9 CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
- 10 CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
- 11 CEMENT CONC. CURB RAMP TYPE 1 PERPENDICULAR
- 12 CEMENT CONC. CURB AND GUTTER
- 13 CEMENT CONC. SIDEWALK
- 14 CEMENT CONC. APPROACH
- 15 SOD, INCL. 4" TOPSOIL
- 16 CEMENT CONCRETE BARRIER CURB

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BID SET



**CITY OF Federal Way**  
Centered on Opportunity  
33325 8TH AVE S FEDERAL WAY, WA 98003  
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**811**  
Know what's below.  
Call before you dig.

DRAFTED: J. MULKEY  
DESIGNED: J. MULKEY  
REVIEWED: S. HAMEL  
APPROVED: D. WINKLER



SARAH L. HAMEL  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
09/10/2020

DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

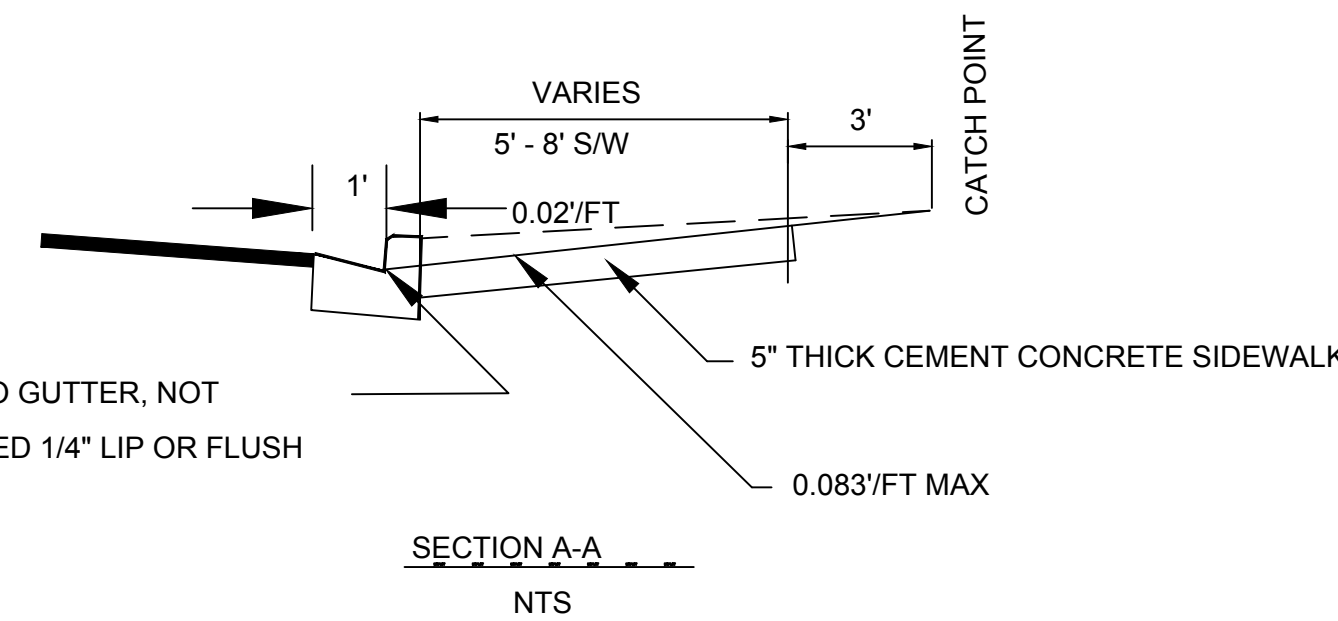
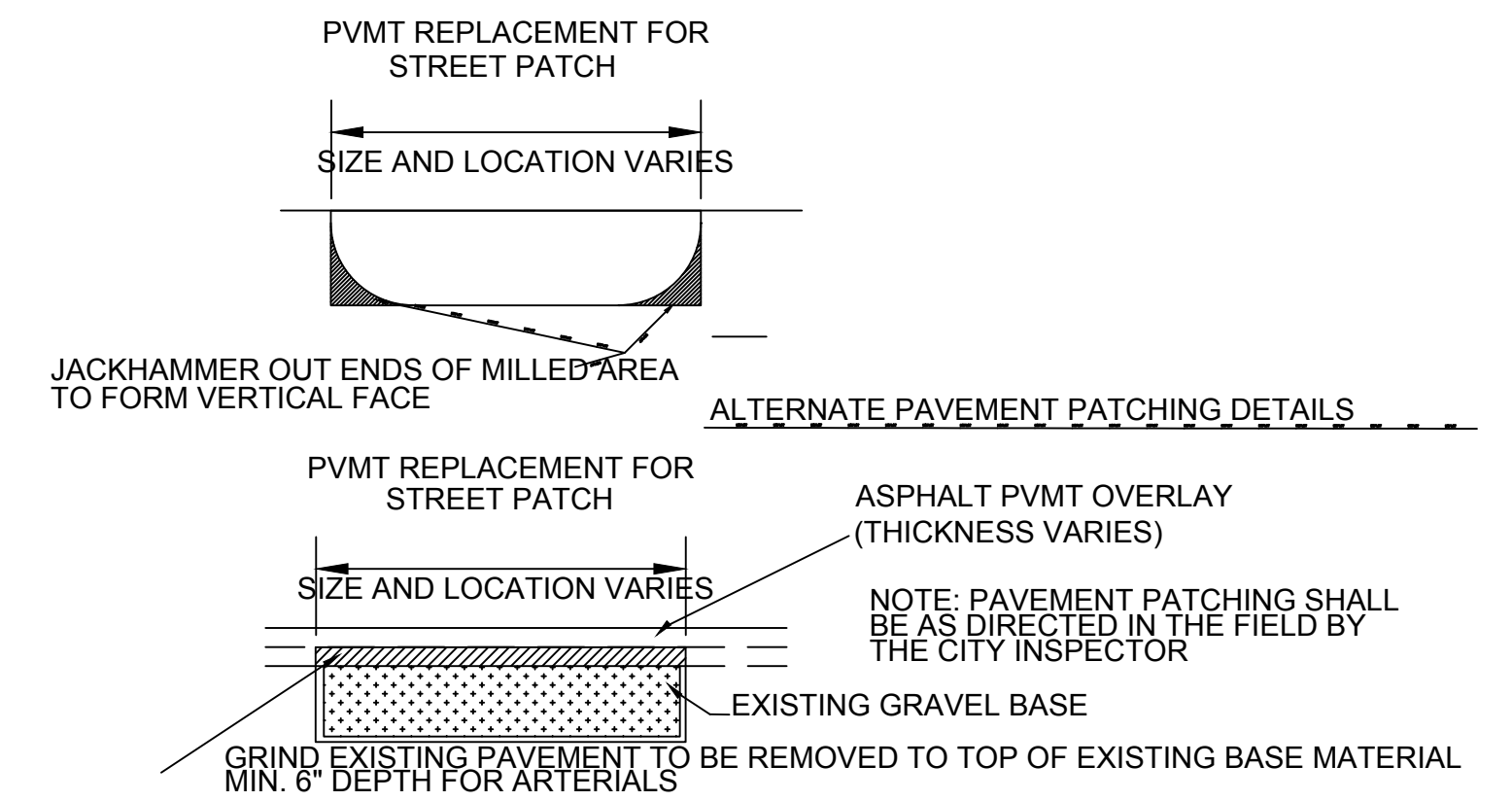
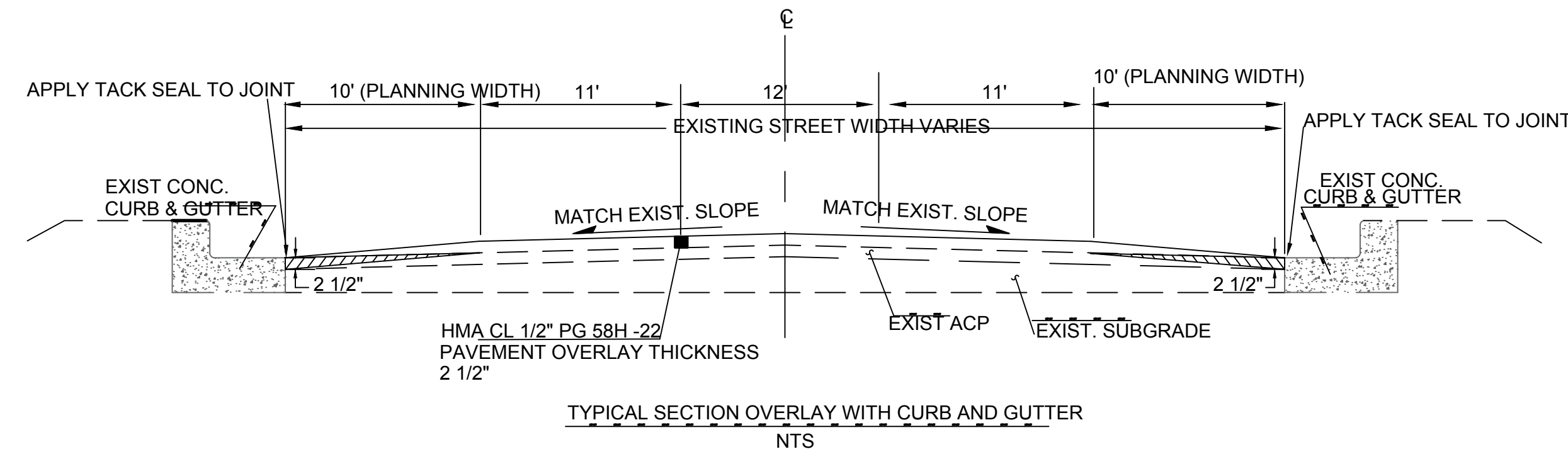
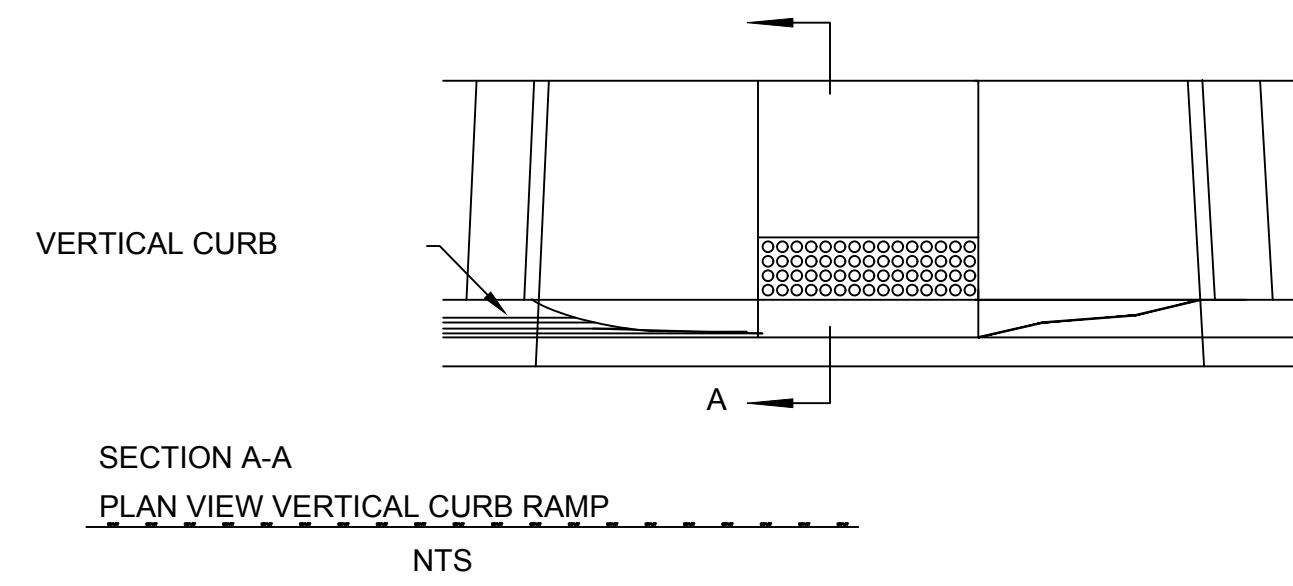
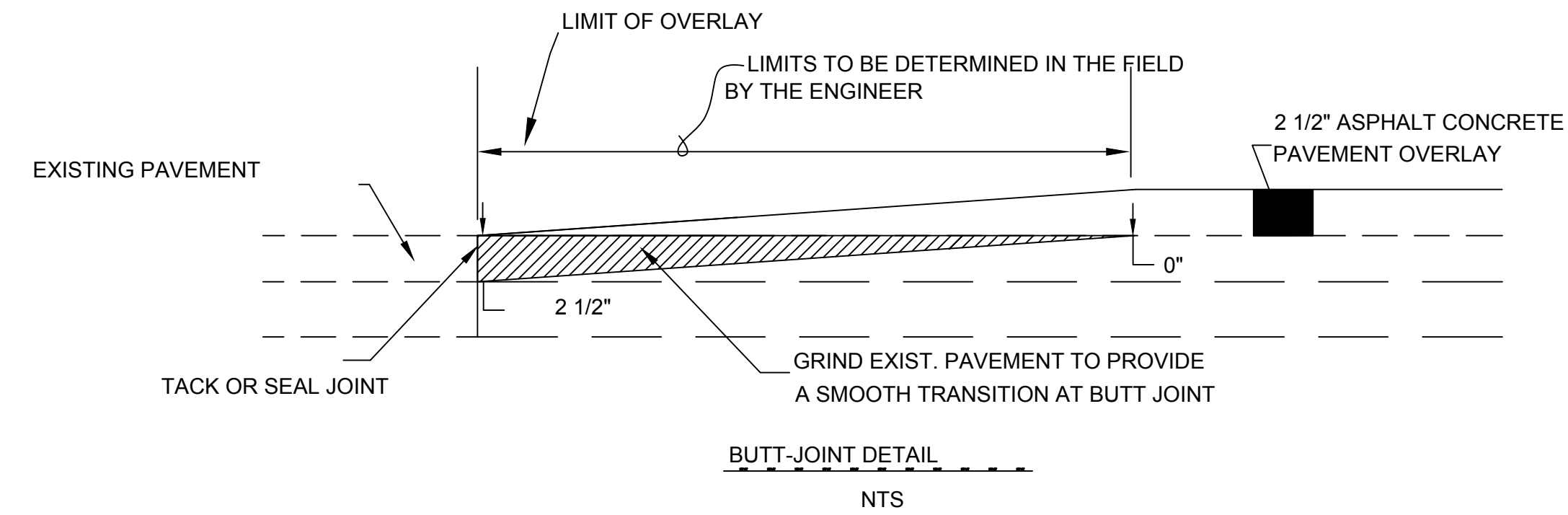
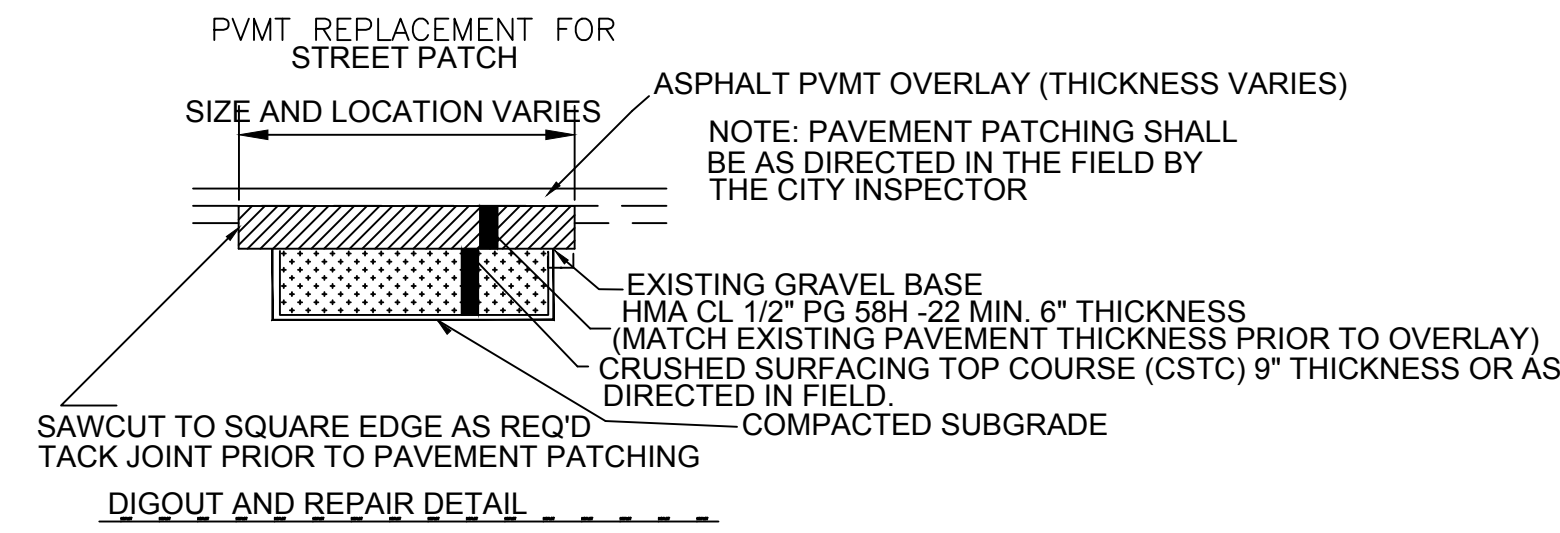
**PRESERVATION PROJECTS**

**GENERAL NOTES & LEGEND**

**SW 320TH STREET & SW 356TH STREET**

CITY PROJECT #:  
**36214**

SHT. **02**  
OF **18**



**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, REFER TO RAMP SHEETS. SPECIFICATIONS.

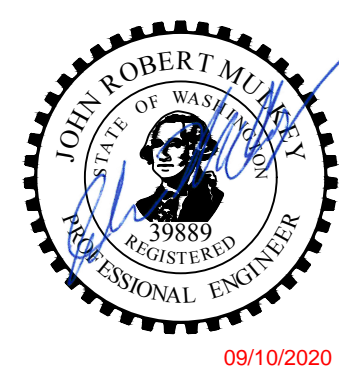
**RAMP NOTES:**

- RAMP AND APPROACHES SHALL BE CLEAR OF ALL OBSTACLES, INCLD HYDRANTS, POLES, AND INLETS.
- RAMP CENTERLINE SHALL BE PERPENDICULAR (OR RADIAL) TO CURB RETURNS.
- 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.

BID SET



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DESIGNED: J. MULKEY  
REVIEWED: S. HAMEL  
APPROVED: D. WINKLER



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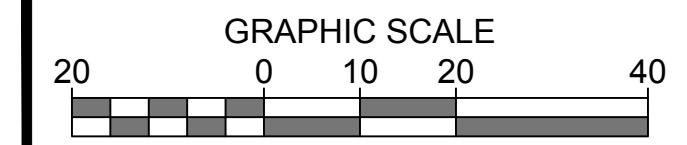
SW 320TH STREET PRESERVATION PROJECT

SECTIONS AND DETAILS

CITY PROJECT #:  
36214

SHT. 03  
OF 18



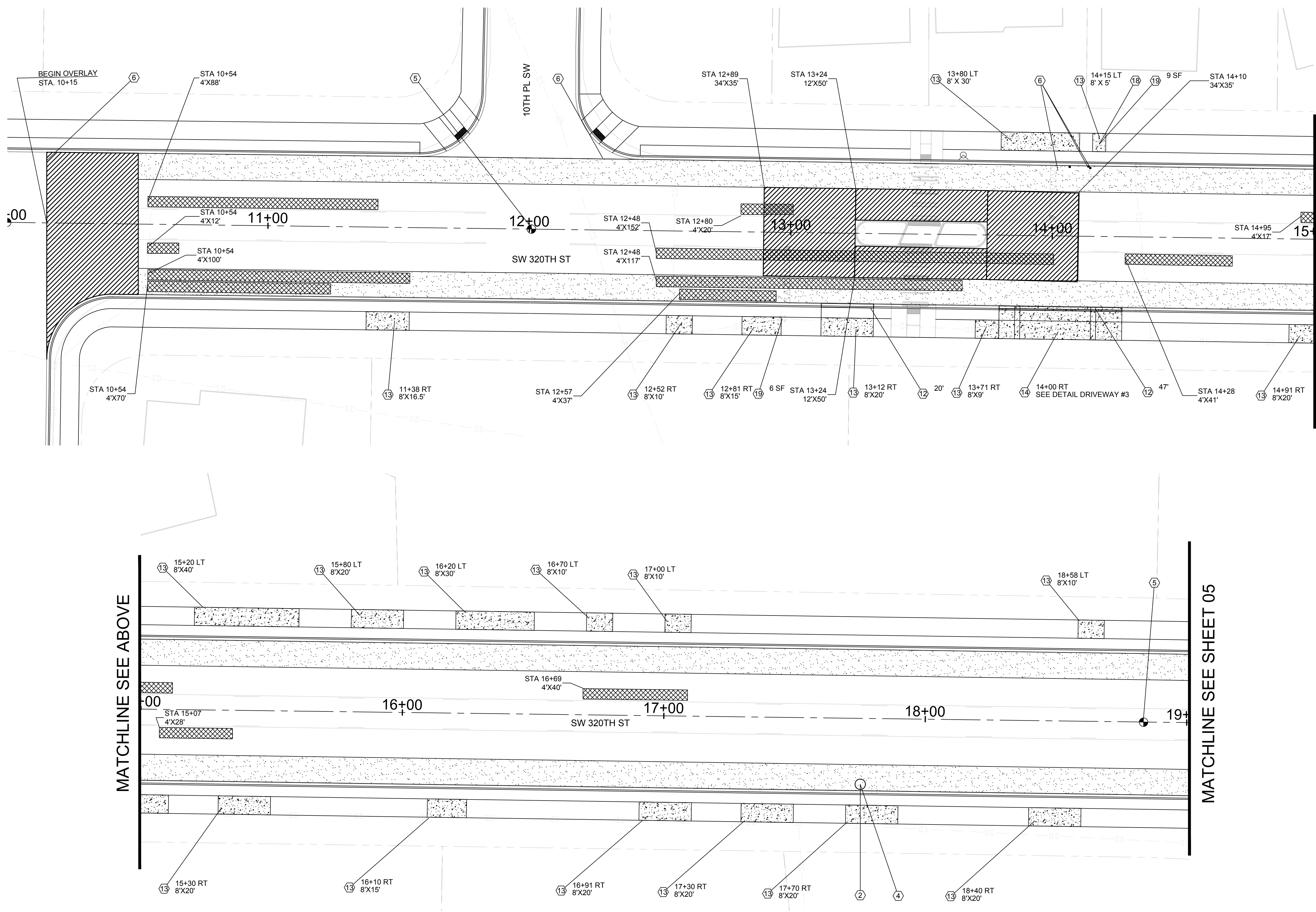


**SITE PREP AND PAVING CONSTRUCTION NOTES:**

- 1 SAWCUT ASPHALT PAVEMENT OR CONCRETE
- 2 ADJUST MANHOLE
- 3 ADJUST CATCH BASIN
- 4 INSTALL HEAVY DUTY FRAME AND LID PER SECTION 7-XX OF THE SPECIAL PROVISIONS
- 5 ADJUST MONUMENT CASE AND COVER
- 6 ADJUST WATER VALVE TO GRADE
- 7 ADJUST SANITARY SEWER MANHOLE TO GRADE
- 8 CEMENT CONC. CURB RAMP TYPE 1 PARALLEL
- 9 CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
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- 15 SOD, INCL. 4" TOPSOIL
- 16 TYPE 1 CATCH BASIN WITH THROUGH CURB INLET
- 17 CONNECT TO EXISTING PIPE
- 18 ADJUST WATER VAULT TO GRADE
- 19 UTILITY NON-SLIP COATING
- 20 CEMENT CONCRETE BARRIER CURB PER COFW DETAIL 3-04

**LEGEND:**

- C/G = EXISTING CURB & GUTTER
- EP = EXISTING EDGE OF PAVEMENT
- TE = EXISTING THICKENED EDGE
- MC = MONUMENT CASE
- FH = EXISTING FIRE HYDRANT
- SDCB = EXISTING STORM DRAIN CATCH BASIN
- SM = EXISTING MANHOLE
- SDM = EXISTING STORM DRAIN MANHOLE
- JB = EXISTING JUNCTION BOX
- IP = INLET PROTECTION
- GV = GAS VALVE
- [Hatched Box] = BUTT JOINT AT STATION OR LOCATION INDICATED. FULL DEPTH AT MATCH LINE AND TRANSITION TO 0" AT DISTANCE DIRECTED BY ENGINEER
- [Dotted Box] = PLANE WIDTH AS INDICATED. FULL DEPTH AT FACE OF GUTTER
- [Cross-hatched Box] = DIG OUT AND REPAIR ROAD SECTION PER SECTIONS & DETAILS SHEET 3 AND 4
- [Stippled Box] = CONCRETE WORK



MATCHLINE SEE ABOVE

MATCHLINE SEE SHEET 05

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**CITY OF Federal Way**  
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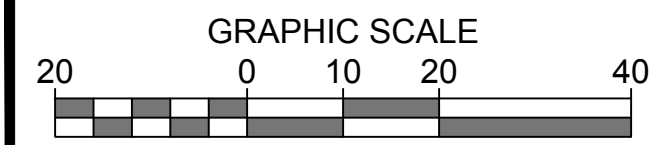


DRAWING VERSION / REVISION LOG		
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**BID SET**  
**SW 320TH STREET PRESERVATION PROJECT**  
**SITE PREP AND PAVING PLAN**  
**STA 10+00 TO 19+00**

CITY PROJECT #:  
**36214**  
 SHT. **04**  
 OF **18**



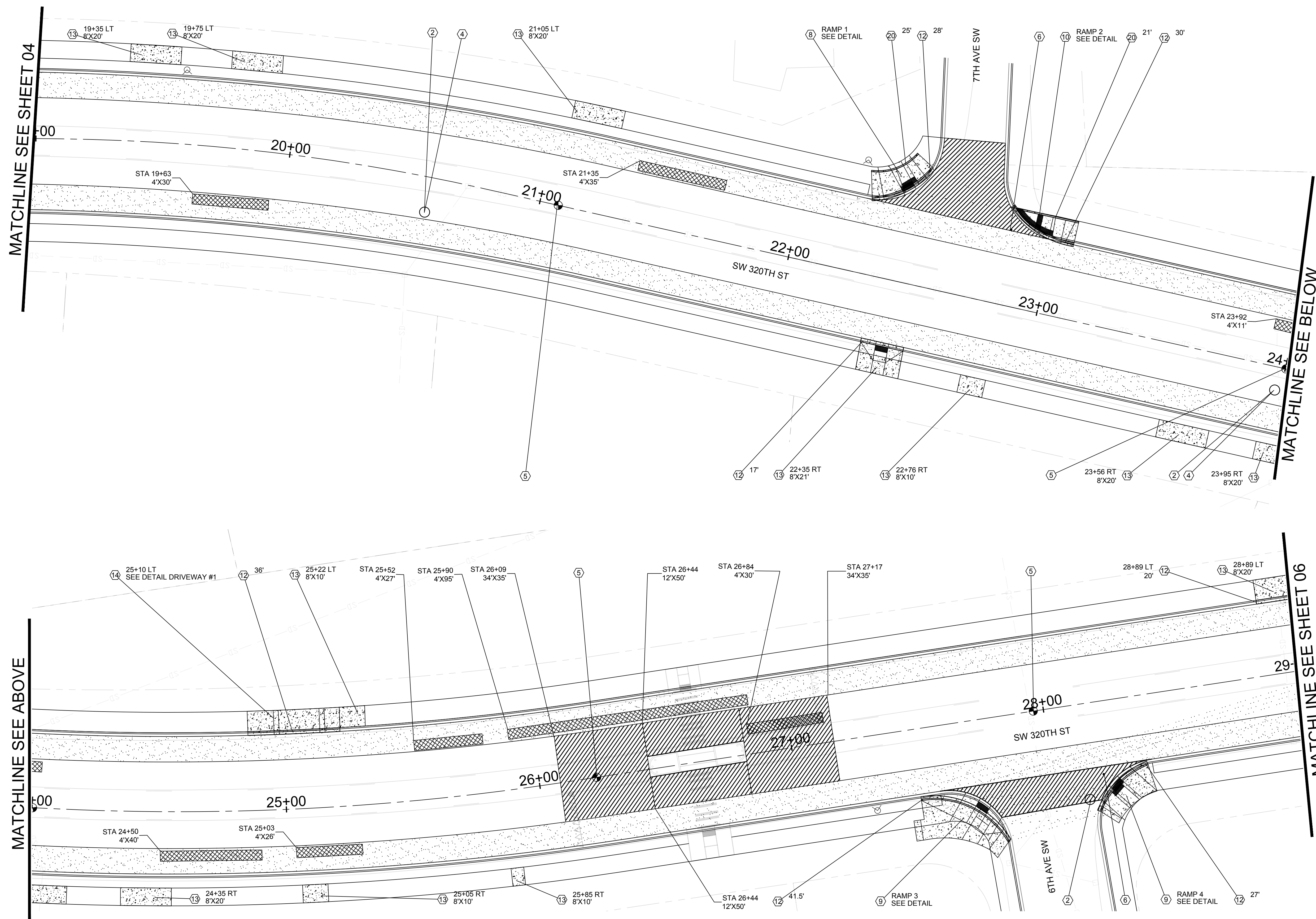


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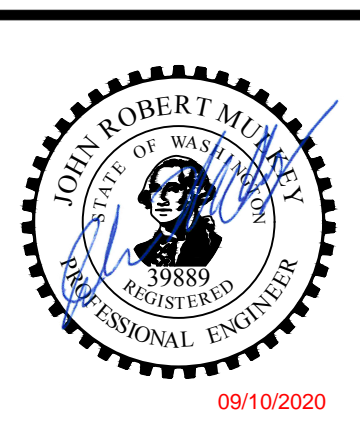


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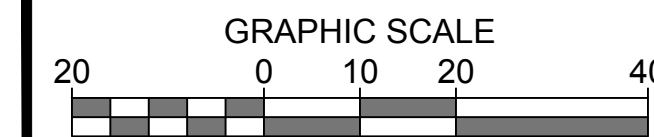


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**SW 320TH STREET PRESERVATION PROJECT**  
**SITE PREP AND PAVING PLAN**  
 STA 19+00 TO 29+00

**BID SET**  
 CITY PROJECT #:  
 36214  
 SHT. 05  
 OF 18

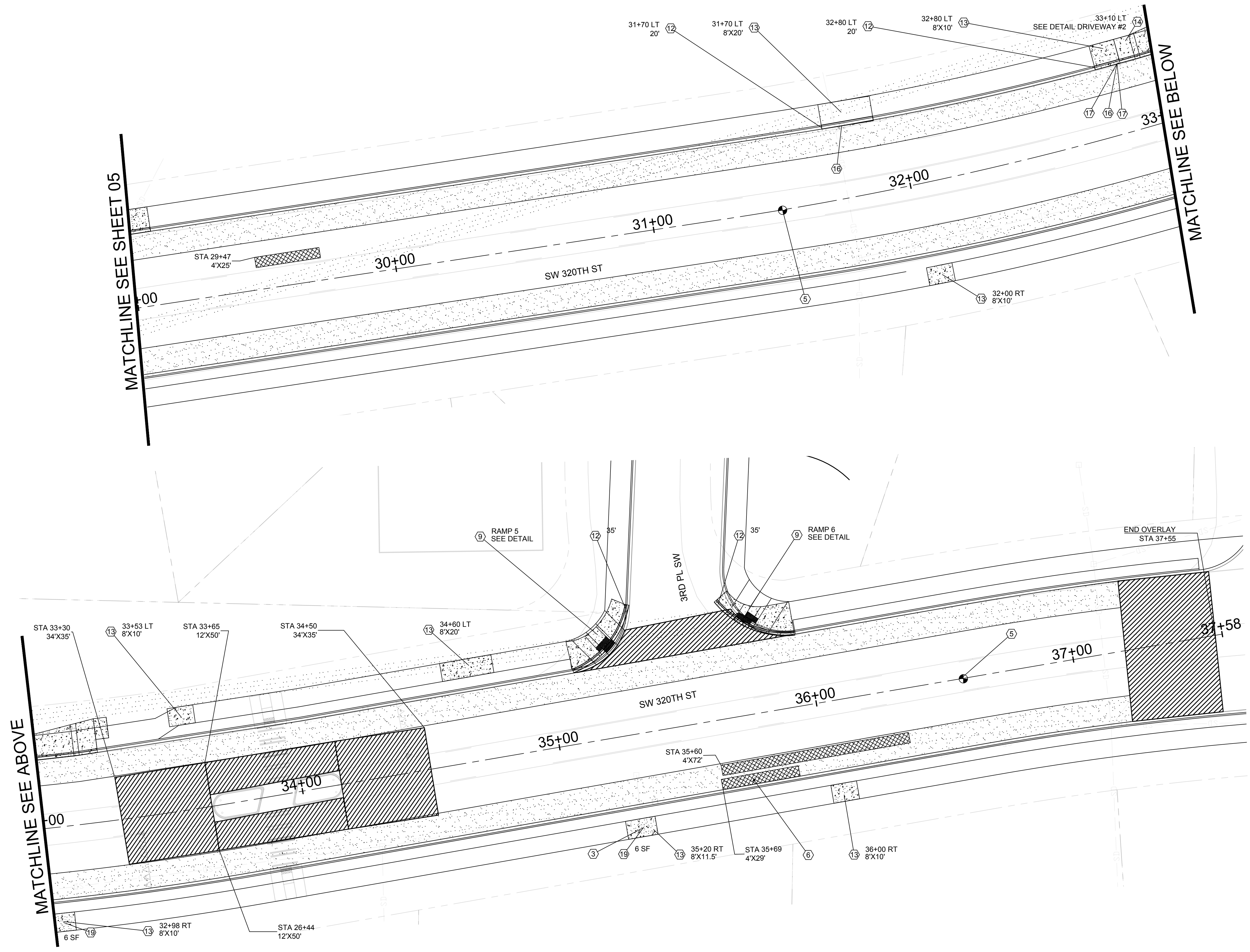




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  - ⊞ = EXISTING STORM DRAIN CATCH BASIN
  - ⊗ = EXISTING MANHOLE
  - ⊞⊞ = EXISTING STORM DRAIN MANHOLE
  - ⊞⊞ = EXISTING JUNCTION BOX
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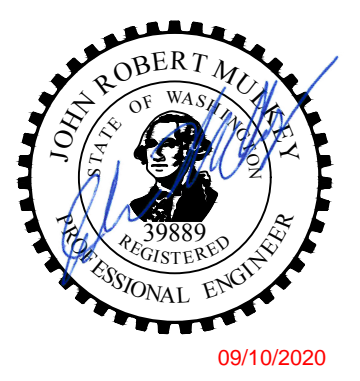


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DRAWING VERSION / REVISION LOG		
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**BID SET**

**SW 320TH STREET PRESERVATION PROJECT**

**SITE PREP AND PAVING**  
 STA 29+00 TO 38+00

CITY PROJECT #:  
**36214**

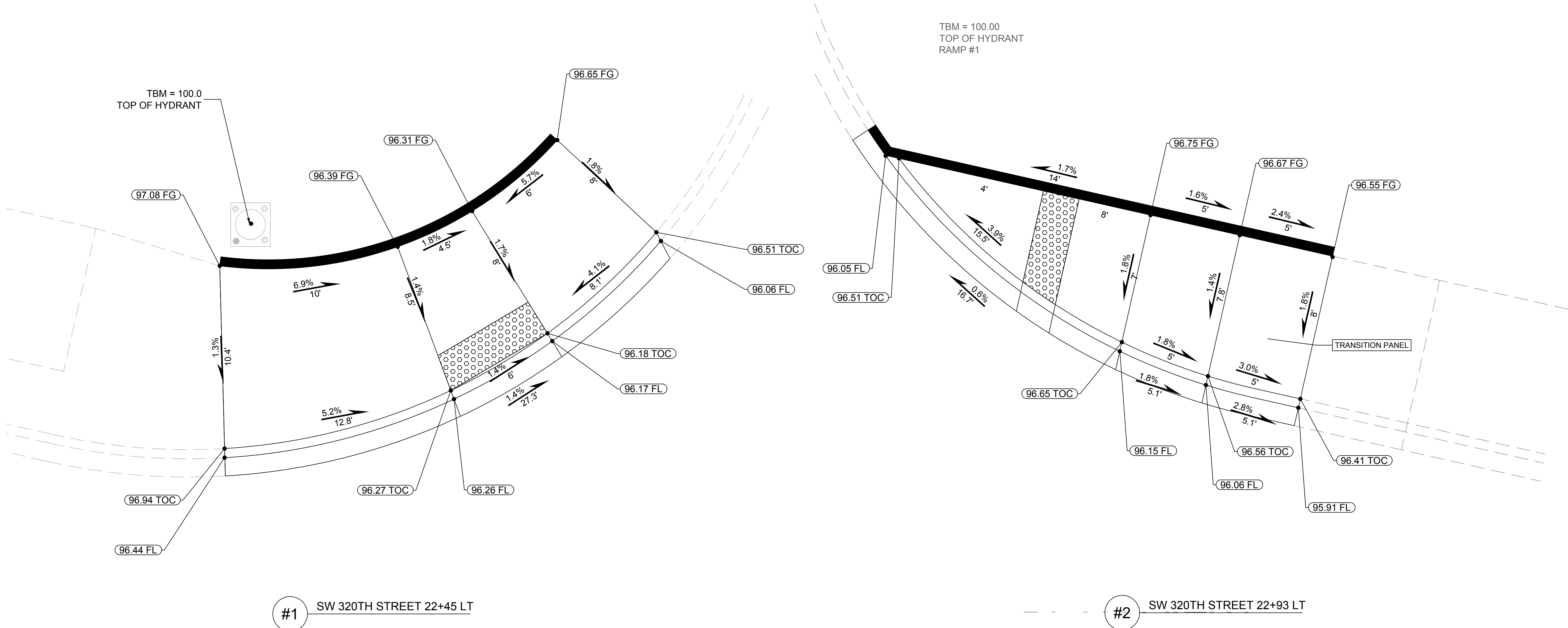
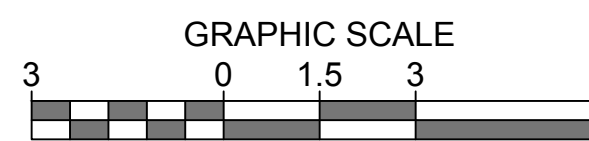
SHT. **06**  
 OF **18**



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

**CURB RAMP NOTES**

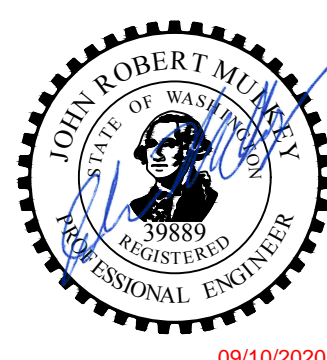
1. SLOPES SHOWN IN PLAN VIEW, RAMP LAYOUT AND RAMP LENGTH FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS AND CONSTRUCT CURB RAMP TO MEET ADA REQUIREMENTS.
2. DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ANY PART OF THE CURB RAMP OR LANDING.
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).
7. INSTALL CEMENT CONCRETE BARRIER CURB PER COFW DETAIL 3-4.



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# SW 320TH STREET PRESERVATION PROJECT

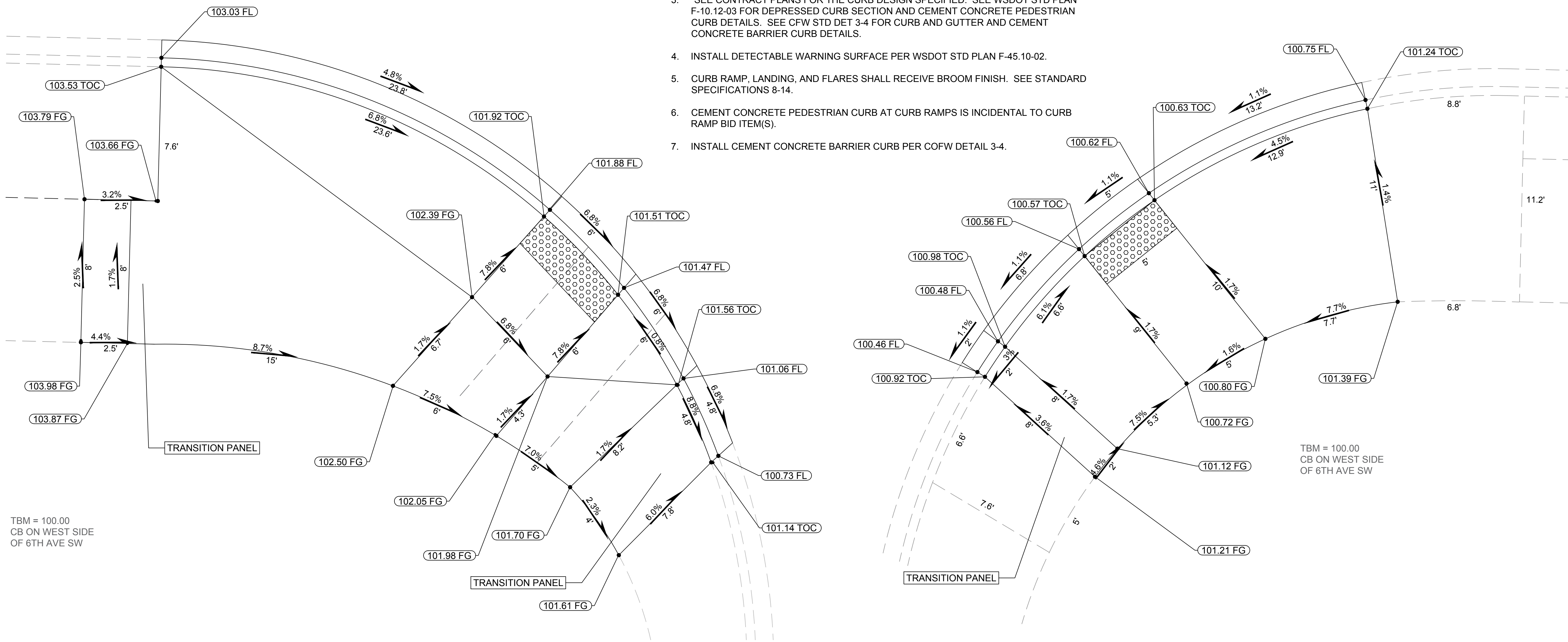
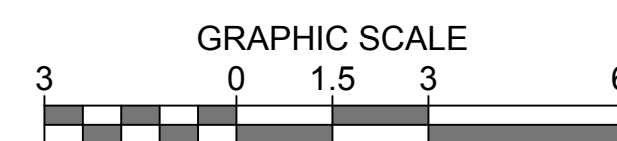
## RAMP 1 AND 2 RAMPS

BID SET  
 CITY PROJECT #:  
 36214  
 SHT. 07  
 OF 18

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.
- 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.
- 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).
- INSTALL CEMENT CONCRETE BARRIER CURB PER COFW DETAIL 3-4.



TBM = 100.00  
 CB ON WEST SIDE  
 OF 6TH AVE SW

TBM = 100.00  
 CB ON WEST SIDE  
 OF 6TH AVE SW

#3 SW 320TH STREET 27+70 RT

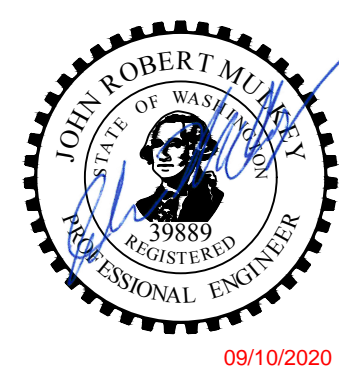
#4 SW 320TH STREET 28+23 RT

K:\CAPITAL PROJECTS\Programmed\214 - SW 320th Preservation\03 PE\ACAD\36214 - RampSheets.dwg, 9/10/2020

**CITY OF Federal Way**  
 Centered on Opportunity  
 33325 8TH AVE S FEDERAL WAY, WA 98003  
 PHONE: (253) 835-2700  
 WWW.CITYOFFEDERALWAY.COM



DRAFTED: J. MULKEY  
 DESIGNED: J. MULKEY  
 REVIEWED: S. HAMEL  
 APPROVED: D. WINKLER



**DRAWING VERSION / REVISION LOG**

NO.	DATE	REVISION

**SW 320TH STREET PRESERVATION PROJECT**  
**RAMP 3 AND 4**  
**RAMPS**

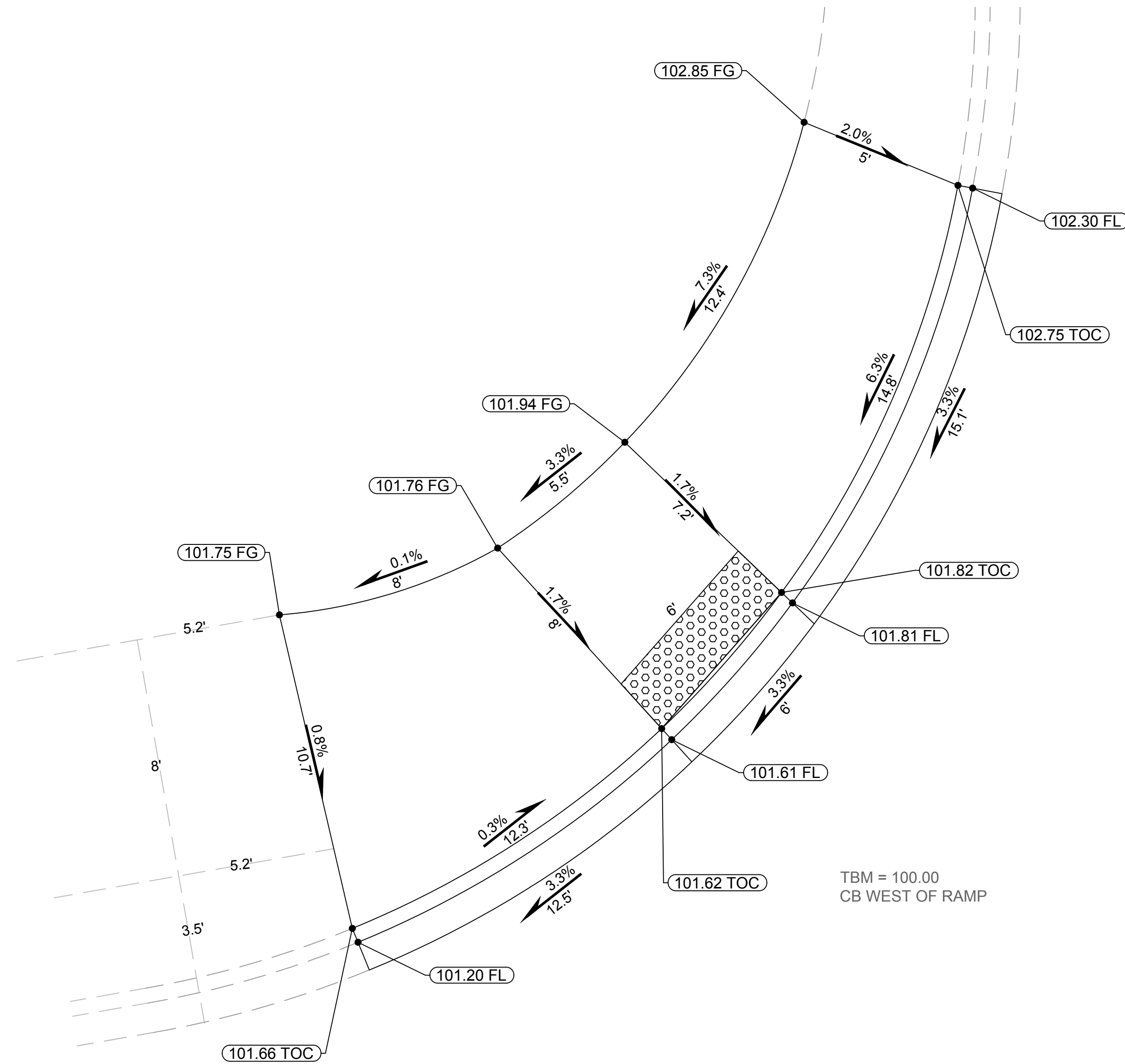
**BID SET**  
 CITY PROJECT #:  
 36214  
 SHT. 08  
 OF 18



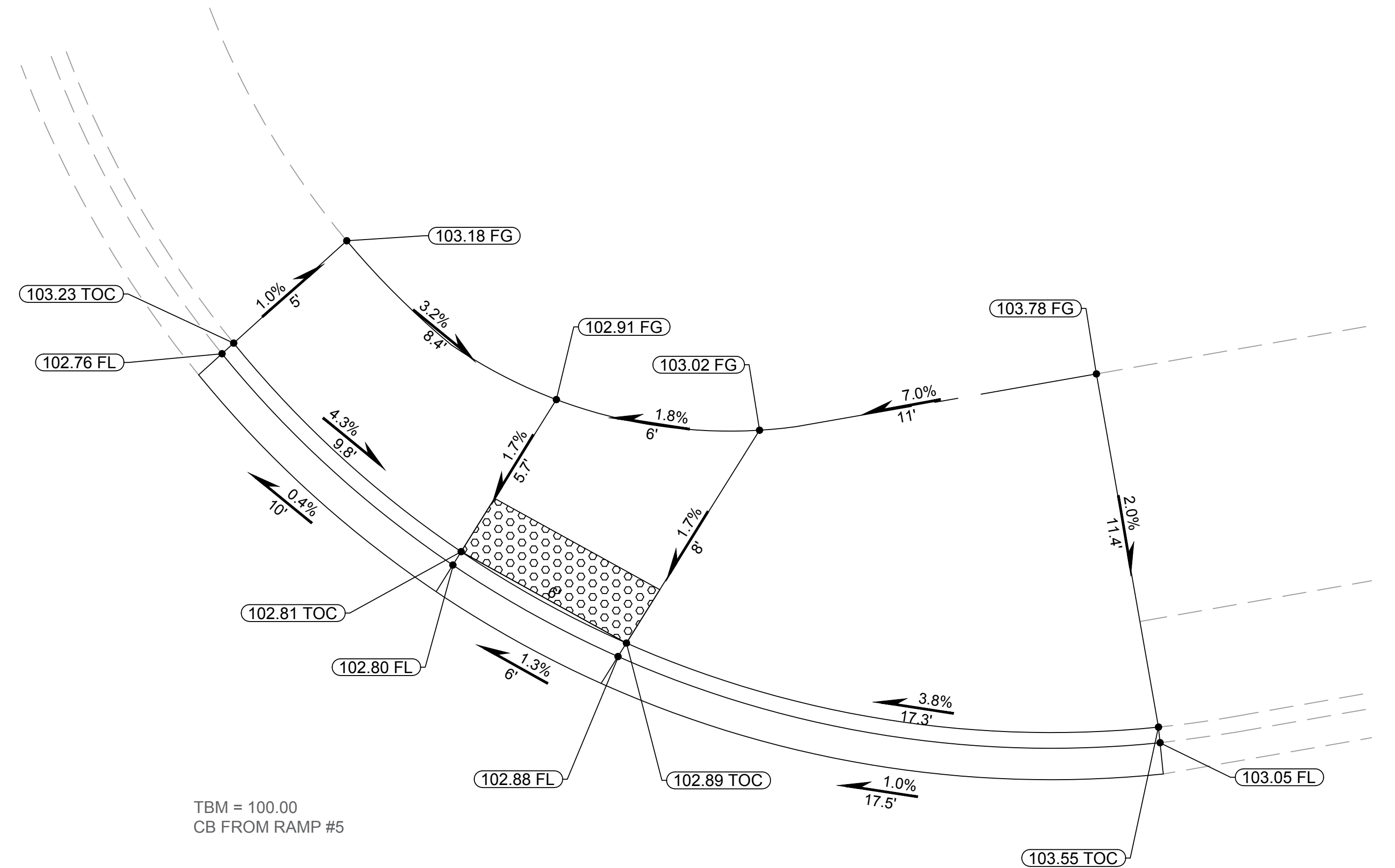
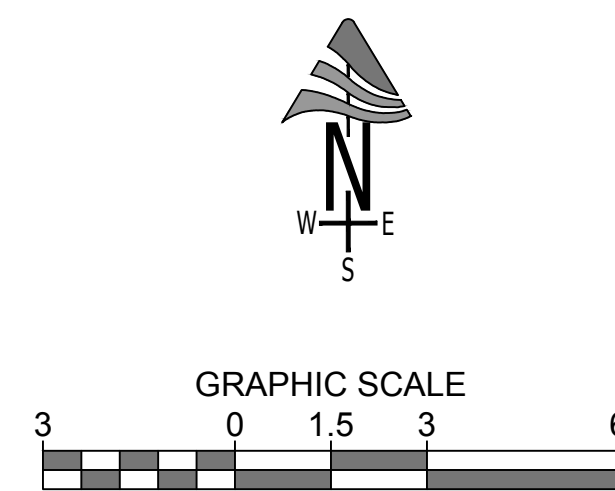
FL = GUTTER FLOW LINE  
 TOC = TOP OF CURB  
 FG = FINISH GRADE

**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).
7. INSTALL CEMENT CONCRETE BARRIER CURB PER COFW DETAIL 3-4.



#5 SW 320TH STREET 35+24 LT

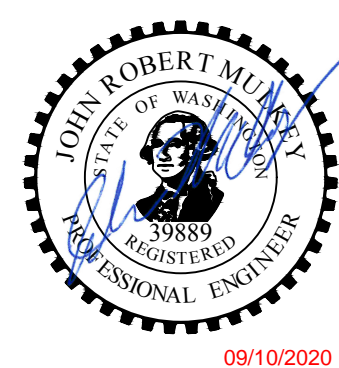


#6 SW 320TH STREET 35+76 LT

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DRAFTED: J. MULKEY  
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 REVIEWED: S. HAMEL  
 APPROVED: D. WINKLER



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**SW 320TH STREET PRESERVATION PROJECT**  
**RAMP 5 AND 6**  
**RAMPS**

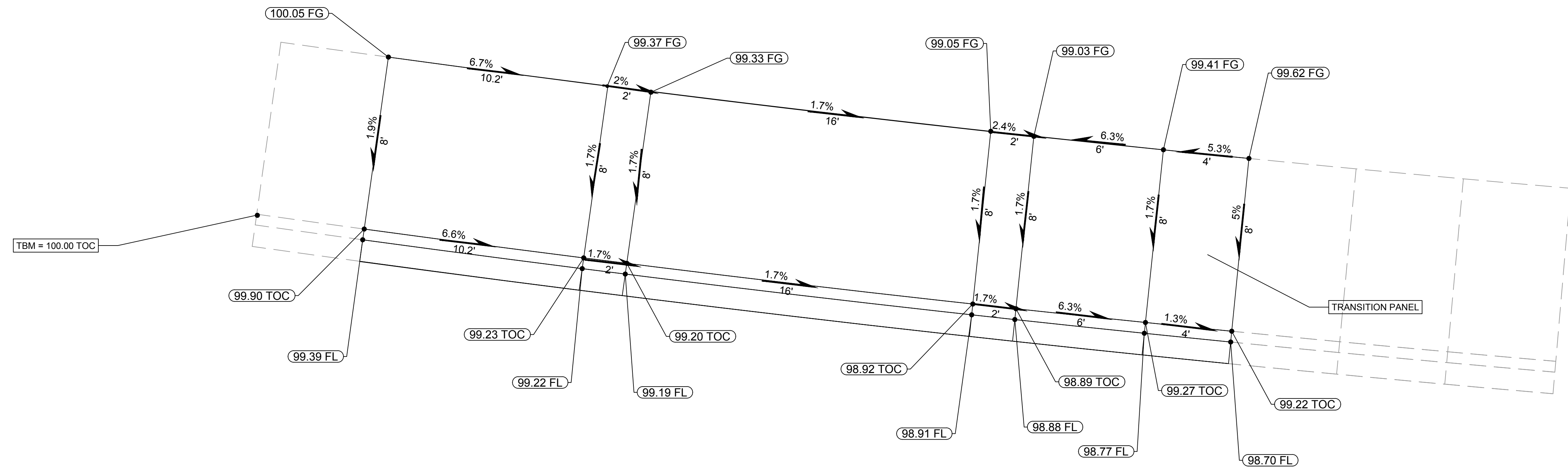
BID SET  
 CITY PROJECT #:  
 36214  
 SHT. 09  
 OF 18



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

**DRIVEWAY NOTES**

1. SLOPES SHOWN IN PLAN VIEW, APPROACH LAYOUT AND LENGTH FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS AND CONSTRUCT APPROACH TO MEET ADA REQUIREMENTS.
2. SEE CONTRACT PLANS FOR THE CURB DESIGN SPECIFIED. SEE CFW STD DETAIL 3-06 OR 3-06A FOR DRIVEWAY DETAILS. SEE CFW STD DET 3-4 FOR CURB AND GUTTER AND CEMENT CONCRETE BARRIER CURB DETAILS.
3. APPROACH SHALL RECEIVE BROOM FINISH. SEE STANDARD SPECIFICATIONS 8-14.



#1 SW 320TH STREET 25+10 LT

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BID SET



DRAFTED: J. MULKEY  
 DESIGNED: J. MULKEY  
 REVIEWED: S. HAMEL  
 APPROVED: D. WINKLER



DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

SW 320TH STREET PRESERVATION PROJECT

DRIVEWAY 1  
 DRIVEWAY DESIGN

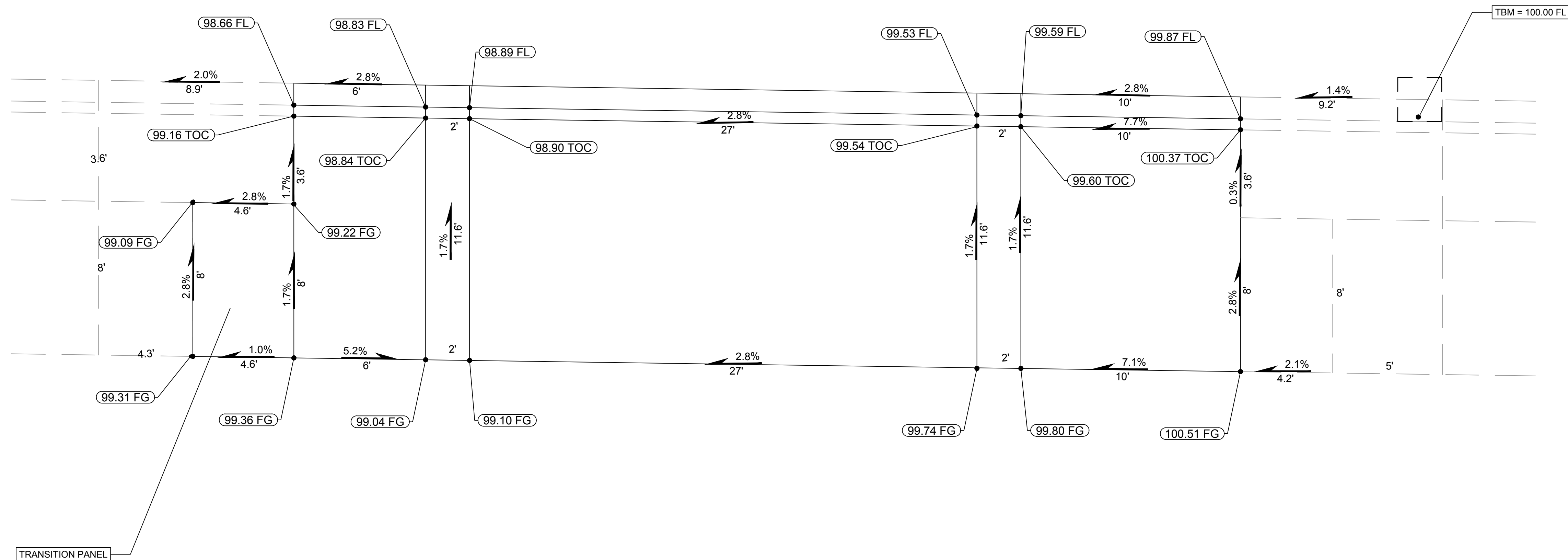
CITY PROJECT #:  
 36214

SHT. 10  
 OF 18









#3 SW 320TH STREET 14+00 RT

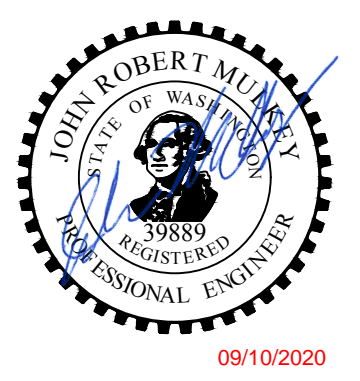
K:\CAPITAL PROJECTS\Programmed\214 - SW 320th Preservation\03 PE\ACAD\36214 - RampSheets.dwg, 9/10/2020

BID SET  
CITY PROJECT #:  
36214  
SHT. 12  
OF 18

**CITY OF Federal Way**  
Centered on Opportunity  
33325 8TH AVE S FEDERAL WAY, WA 98003  
PHONE: (253) 835-2700  
WWW.CITYOFFEDERALWAY.COM



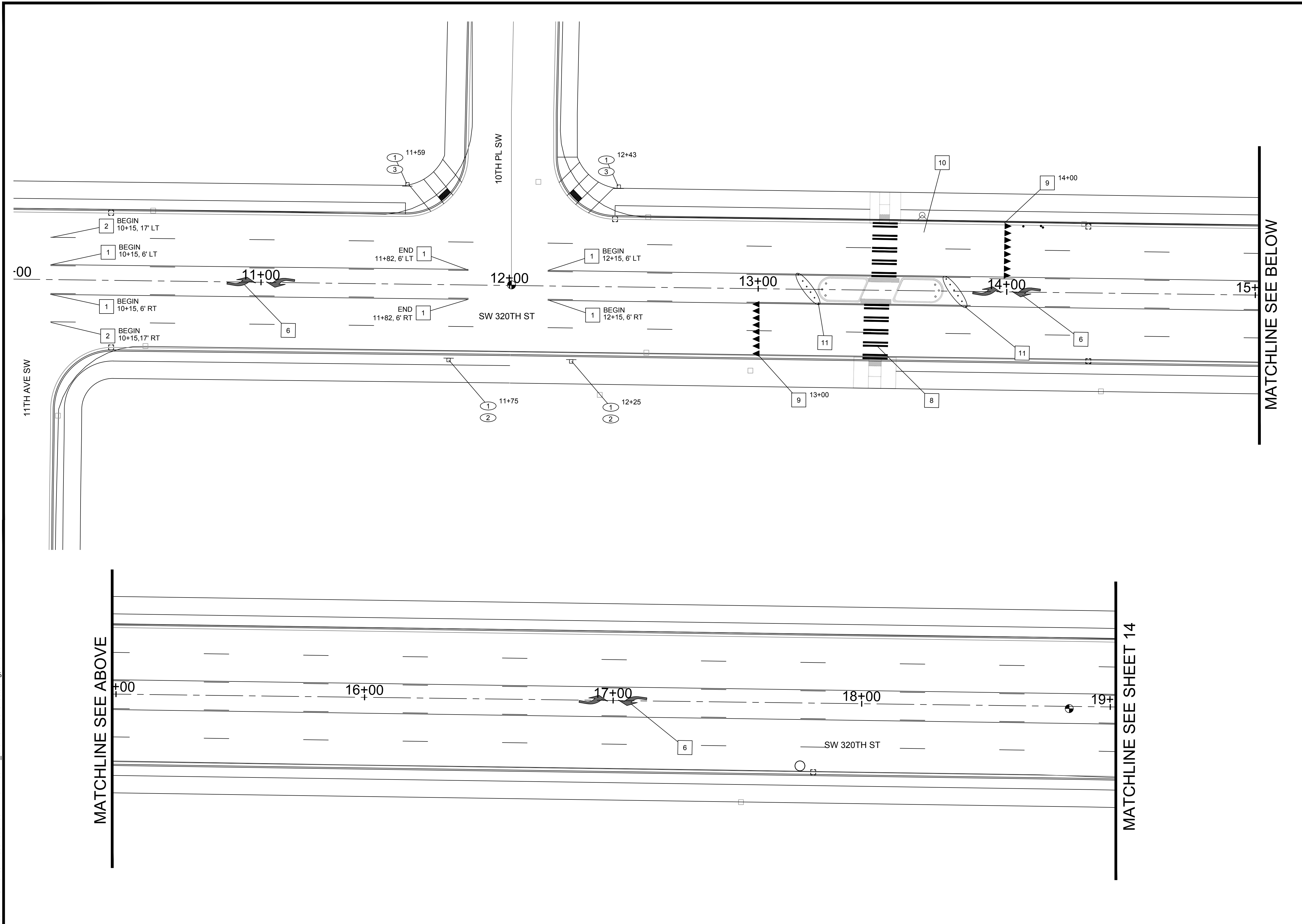
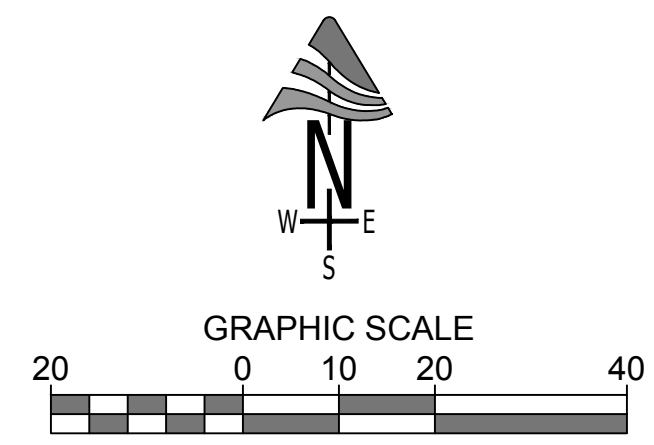
DRAFTED: J. MULKEY  
DESIGNED: J. MULKEY  
REVIEWED: S. HAMEL  
APPROVED: D. WINKLER



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**SW 320TH STREET PRESERVATION PROJECT**  
**DRIVEWAY 3**  
**DRIVEWAY DESIGN**





- SIGN NOTES:
- ① NO PEDESTRIAN CROSSING, R9-3A
  - ② USE CROSSWALK (PLAQUE), R9-3BL
  - ③ USE CROSSWALK (PLAQUE), R9-3BR

- PAVEMENT MARKING CONSTRUCTION NOTES:
- 1 4" PROFILED PLASTIC TWO WAY LEFT TURN LANE LINE (MATERIAL TYPE D)
  - 2 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
  - 3 4" PLASTIC LINE (MATERIAL TYPE D)
  - 4 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
  - 5 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
  - 6 PLASTIC TRAFFIC ARROW TYPE 2SL PER WSDOT STD. PLAN M-24.40-02 (MATERIAL TYPE A)
  - 7 PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
  - 8 PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
  - 8 PAINT BIKE LANE SYMBOL PER WSDTO STD. PLAN M-9.50-02
  - 9 "SHARKS TOOTH" YIELD LINE SYMBOL, PER WSDOT STANDARD PLAN M-24.60
  - 10 HYDRANT MARKER TYPE 2B
  - 11 RPM TYPE 2Y

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DRAFTED: J. MULKEY  
 DESIGNED: J. MULKEY  
 REVIEWED: S. HAMEL  
 APPROVED: D. WINKLER



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**BID SET**

## SW 320TH STREET PRESERVATION PROJECT

### SIGN AND PAVEMENT MARKING PLAN

STA 10+00 TO 19+00

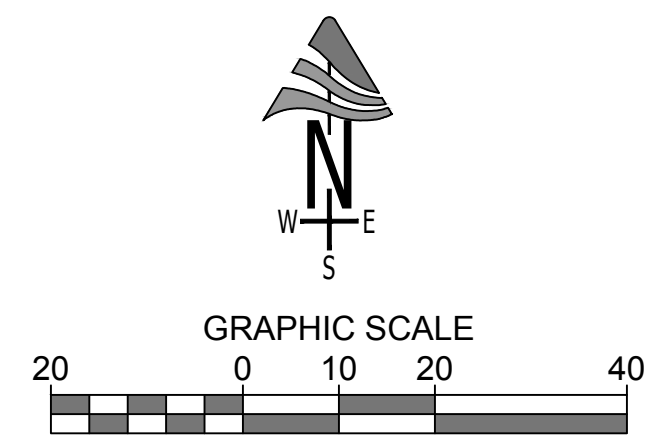
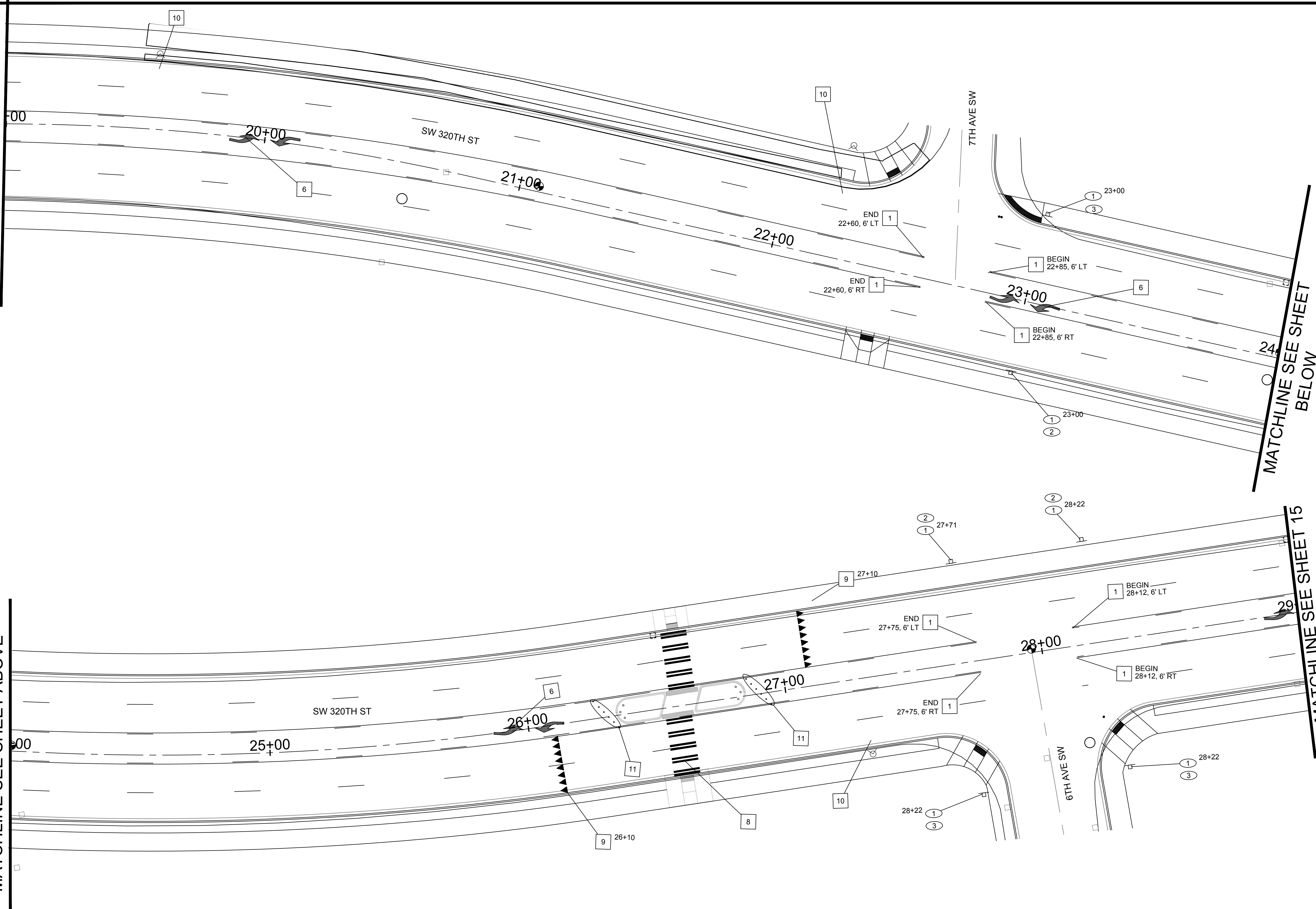
CITY PROJECT #:  
**36214**

SHT. **13**  
 OF **18**



MATCHLINE SEE SHEET 13

MATCHLINE SEE SHEET ABOVE



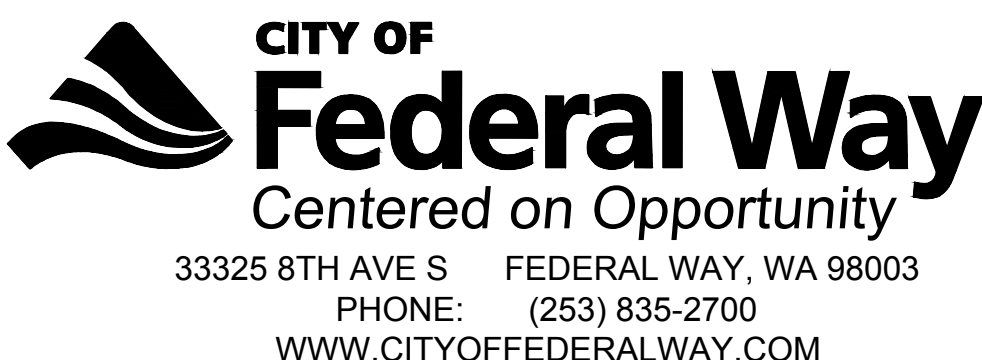
SIGN NOTES:

- ① NO PEDESTRIAN CROSSING, R9-3A
- ② USE CROSSWALK (PLAQUE), R9-3BL
- ③ USE CROSSWALK (PLAQUE), R9-3BR

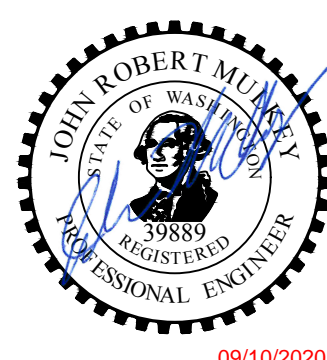
PAVEMENT MARKING CONSTRUCTION NOTES:

- 1 4" PROFILED PLASTIC TWO WAY LEFT TURN LANE LINE (MATERIAL TYPE D)
- 2 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
- 3 4" PLASTIC LINE (MATERIAL TYPE D)
- 4 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
- 5 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
- 6 PLASTIC TRAFFIC ARROW TYPE 2SL PER WSDOT STD. PLAN M-24.40-02 (MATERIAL TYPE A)
- 7 PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 8 PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 8 PAINT BIKE LANE SYMBOL PER WSDTO STD. PLAN M-9.50-02
- 9 "SHARKS TOOTH" YIELD LINE SYMBOL, PER WSDOT STANDARD PLAN M-24.60
- 10 HYDRANT MARKER TYPE 2B
- 11 RPM TYPE 2Y

BID SET



DRAFTED: J. MULKEY  
 DESIGNED: J. MULKEY  
 REVIEWED: S. HAMEL  
 APPROVED: D. WINKLER



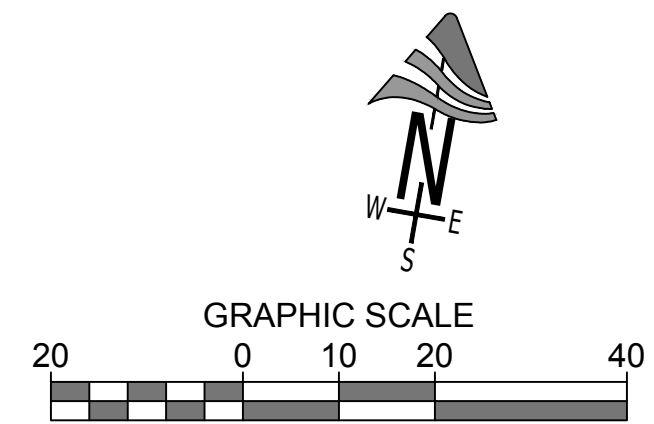
DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**SW 320TH STREET PRESERVATION PROJECT**  
**SIGN AND PAVEMENT MARKING PLAN**  
 STA 19+00 TO 29+00

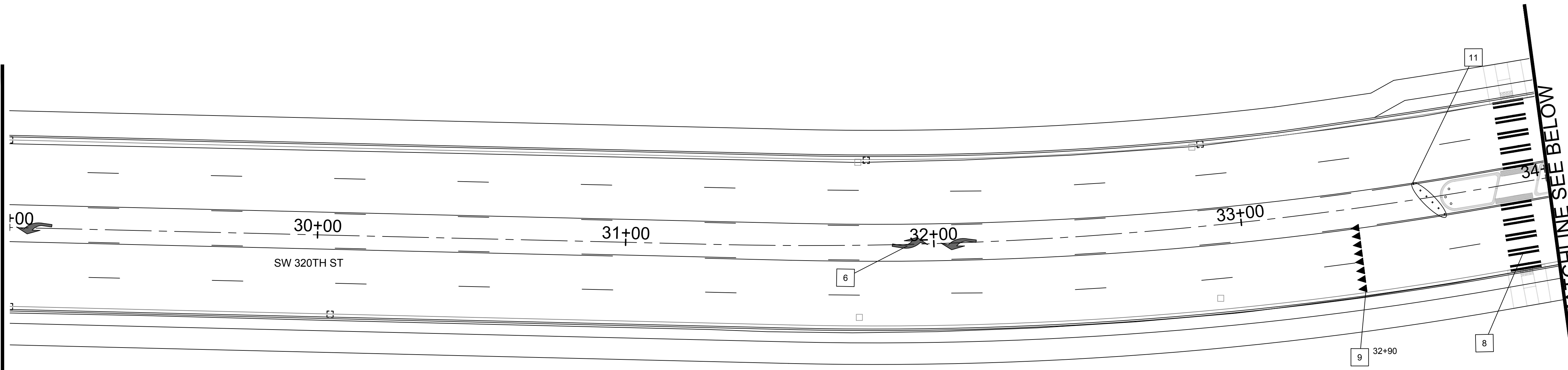
CITY PROJECT #:  
**36214**  
 SHT. **14**  
 OF **18**

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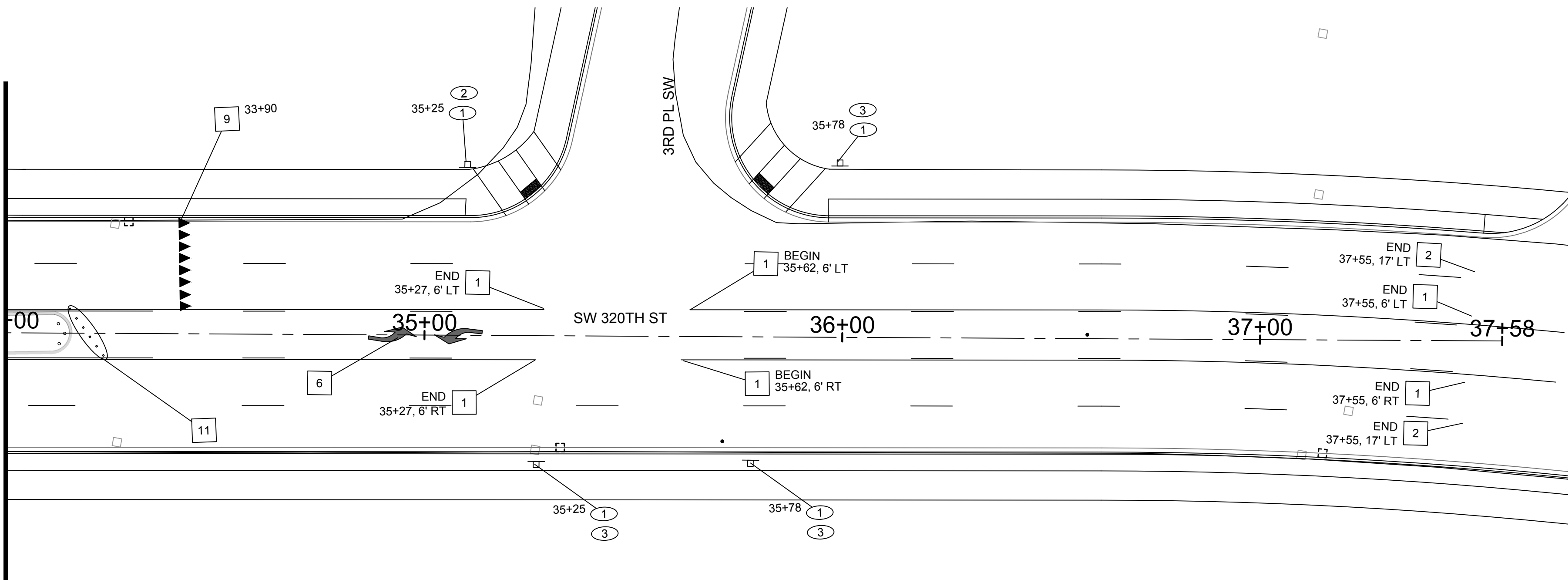




MATCHLINE SEE SHEET ##



MATCHLINE SEE ABOVE



**SIGN NOTES:**

- ① NO PEDESTRIAN CROSSING, R9-3A
- ② USE CROSSWALK (PLAQUE), R9-3BL
- ③ USE CROSSWALK (PLAQUE), R9-3BR

**PAVEMENT MARKING CONSTRUCTION NOTES:**

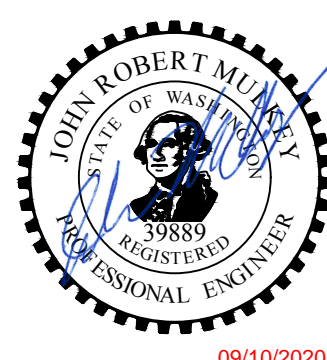
- 1 4" PROFILED PLASTIC TWO WAY LEFT TURN LANE LINE (MATERIAL TYPE D)
- 2 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
- 3 4" PLASTIC LINE (MATERIAL TYPE D)
- 4 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
- 5 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
- 6 PLASTIC TRAFFIC ARROW TYPE 2SL PER WSDOT STD. PLAN M-24.40-02 (MATERIAL TYPE A)
- 7 PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 8 PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 8 PAINT BIKE LANE SYMBOL PER WSDTO STD. PLAN M-9.50-02
- 9 "SHARKS TOOTH" YIELD LINE SYMBOL, PER WSDOT STANDARD PLAN M-24.60
- 10 HYDRANT MARKER TYPE 2B
- 11 RPM TYPE 2Y

**BID SET**

33325 8TH AVE S FEDERAL WAY, WA 98003  
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WWW.CITYOFFEDERALWAY.COM



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DESIGNED: J. MULKEY  
REVIEWED: S. HAMEL  
APPROVED: D. WINKLER



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NO.	DATE	REVISION

**SW 320TH STREET PRESERVATION PROJECT**  
**SIGN AND PAVEMENT MARKING PLAN**  
**STA 29+00 TO 37+00**

CITY PROJECT #:  
**36214**  
SHT. **15**  
OF **18**

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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)

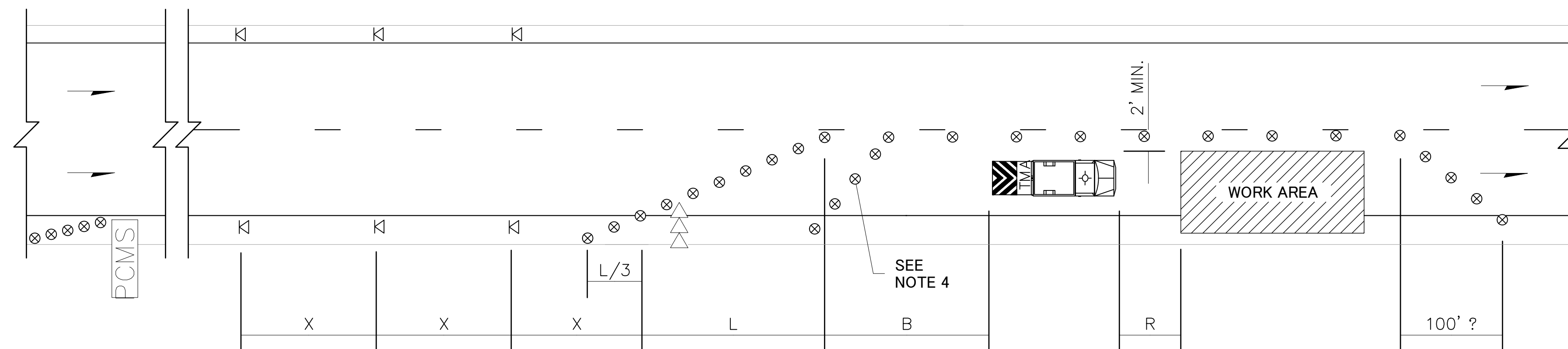
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

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

BUFFER DATA										
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

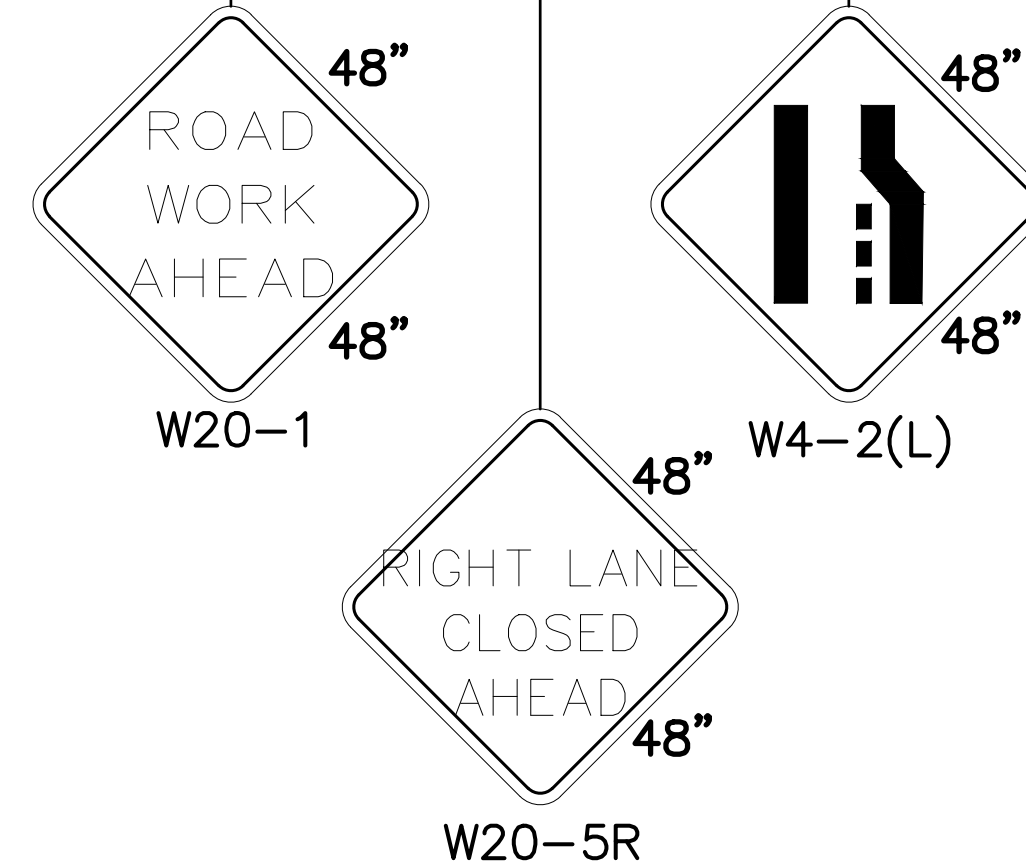
  

BUFFER VEHICLE ROLL AHEAD DISTANCE = R	
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.	30 FEET MIN. TO 100 FEET MAX.



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
  - ▶▶▶ TRANSPORTABLE ATTENUATOR
  - PCMS PORTABLE CHANGEABLE MESSAGE SIGN

### SINGLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

NOT TO SCALE

**NOTES:**

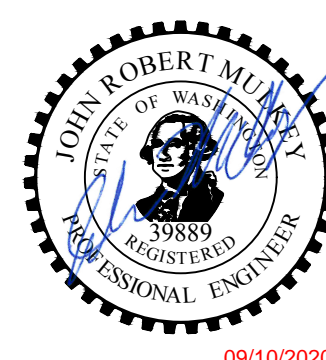
1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
3. DEVICES SHALL NOT ENCRoACH INTO THE ADJACENT LANE.
4. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' (FT) (RECOMMENDED).
5. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
6. ALL SIGNS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

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Centered on Opportunity  
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DESIGNED: J. MULKEY  
REVIEWED: S. HAMEL  
APPROVED: D. WINKLER



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NO.	DATE	REVISION

## SW 320TH STREET PRESERVATION PROJECT

### TRAFFIC CONTROL PLAN

**BID SET**  
CITY PROJECT #:  
36214  
SHT. 16  
OF 18



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 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

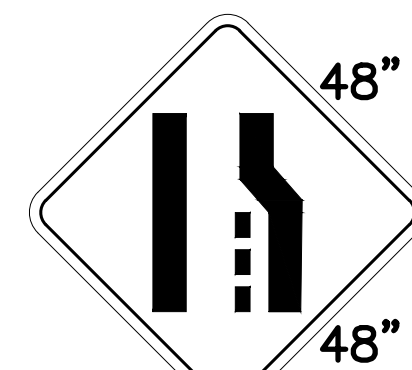
PCMS	
1	2
2 LANES CLOSED AHEAD	WATCH FOR SLOW TRAFFIC
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE IN ADVANCE OF LANE CLOSURE SIGNING.

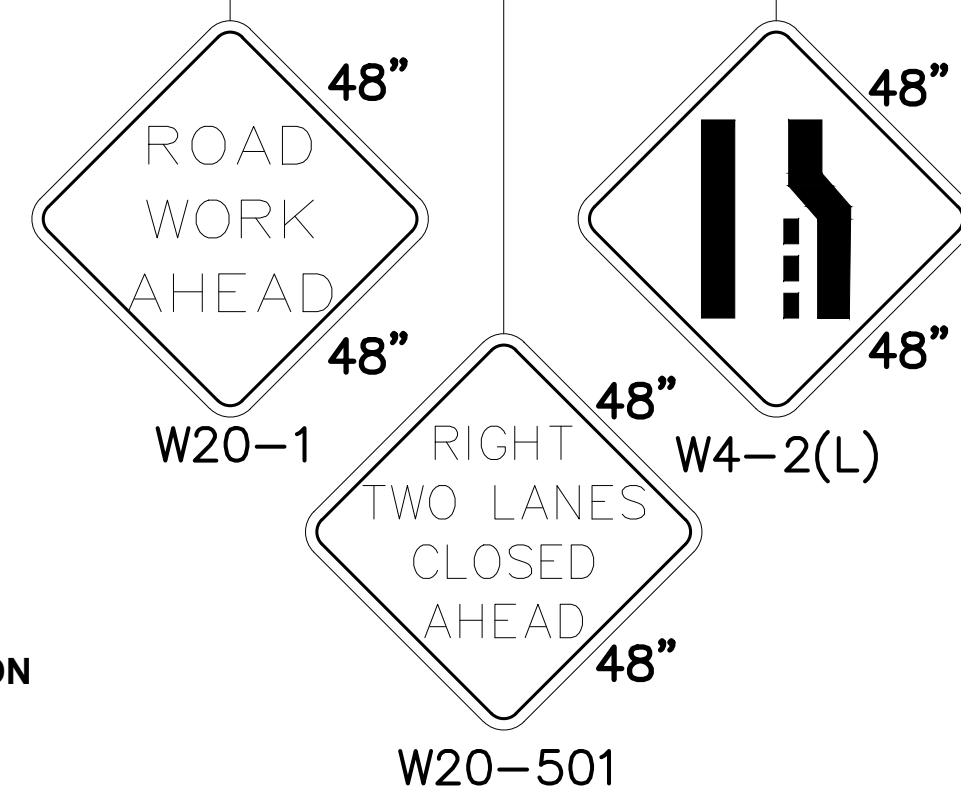
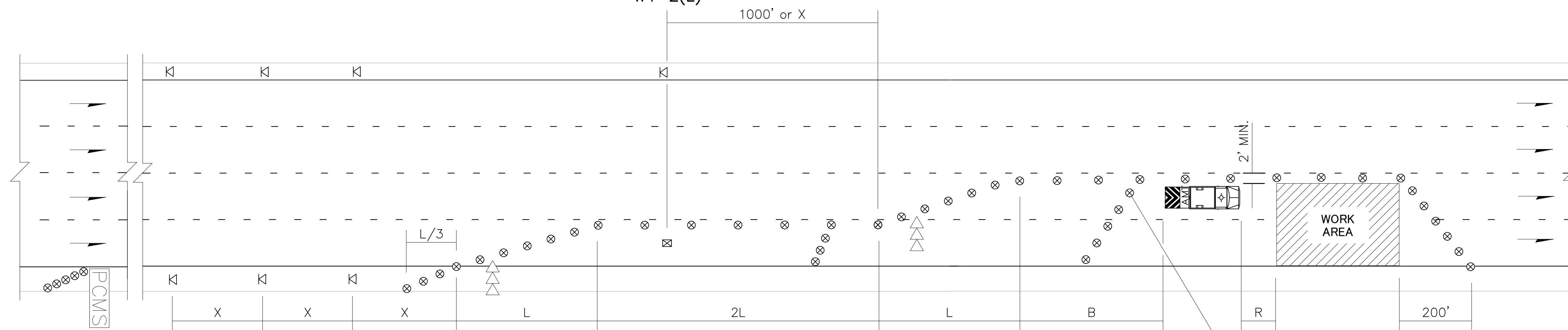
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

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.



W4-2(L)



- LEGEND**
- ⊗ TRAFFIC SAFETY DRUM
  - ⊠ TEMPORARY SIGN LOCATION
  - ⇨⇨⇨ SEQUENTIAL ARROW SIGN
  - TRANSPORTABLE ATTENUATOR
  - PORTABLE CHANGEABLE MESSAGE SIGN
  - ⊠ TEMPORARY SIGN LOCATION (5' (FT) MOUNTING HEIGHT)

### DOUBLE-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 LANES.
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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NO.	DATE	REVISION

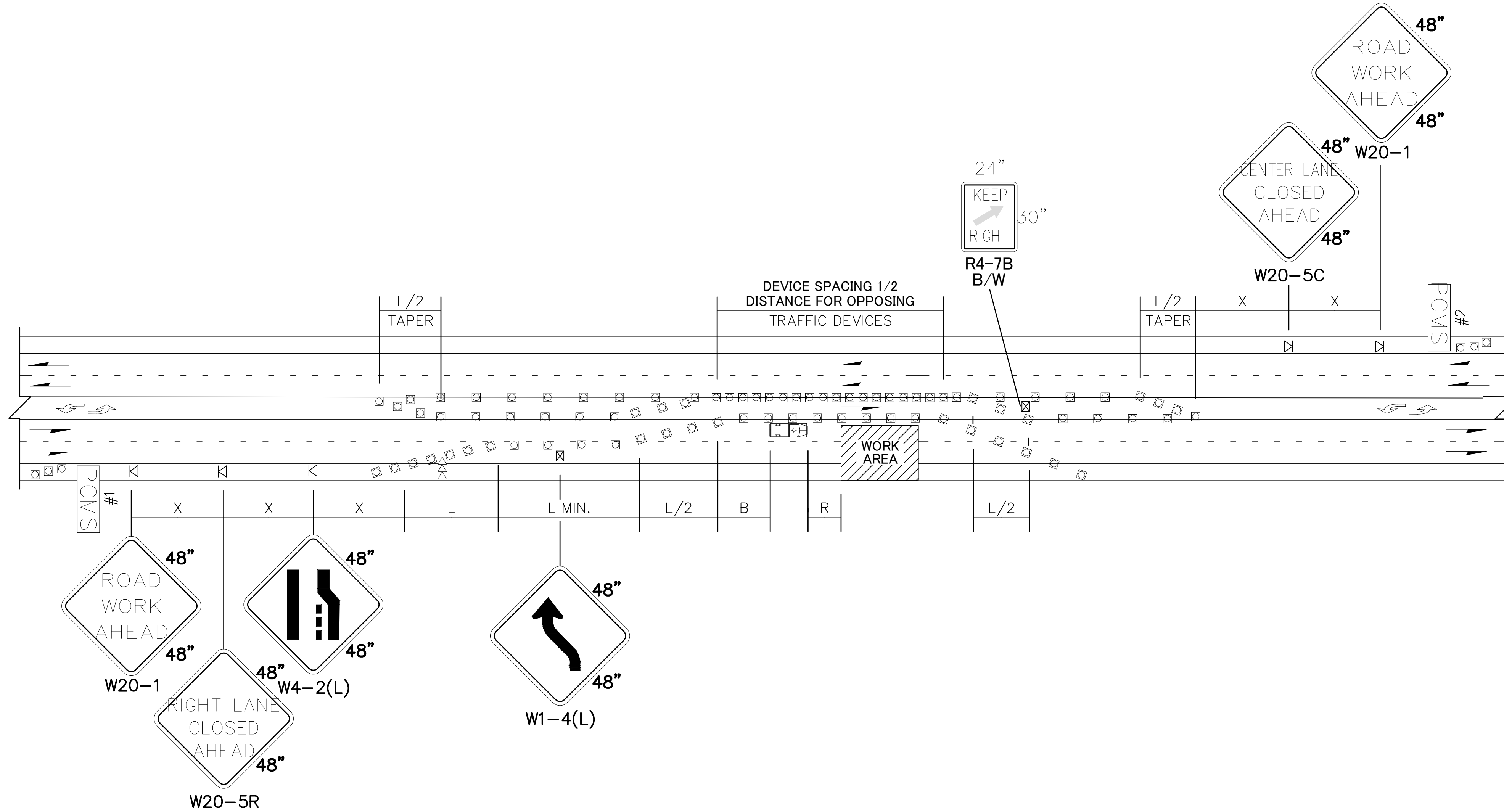
SIGN SPACING = X (1)		
RURAL ROADS	45 / 55 MPH	500' ?
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ?
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ? (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ? (2)

(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.

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

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										30 FEET MIN. TO 100 FEET MAX.	
MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.											
PROTECTIVE VEHICLE										NO SPECIFIED DISTANCE REQUIRED	
MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.											



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

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

PCMS #2	
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
- ⊠ PROTECTIVE VEHICLE
- 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.

**BID SET**



DRAFTED: J. MULKEY  
DESIGNED: J. MULKEY  
REVIEWED: S. HAMEL  
APPROVED: D. WINKLER



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**SW 320TH STREET PRESERVATION PROJECT**

**TRAFFIC CONTROL PLAN**

CITY PROJECT #: 214  
SHT. 18  
OF 18

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