

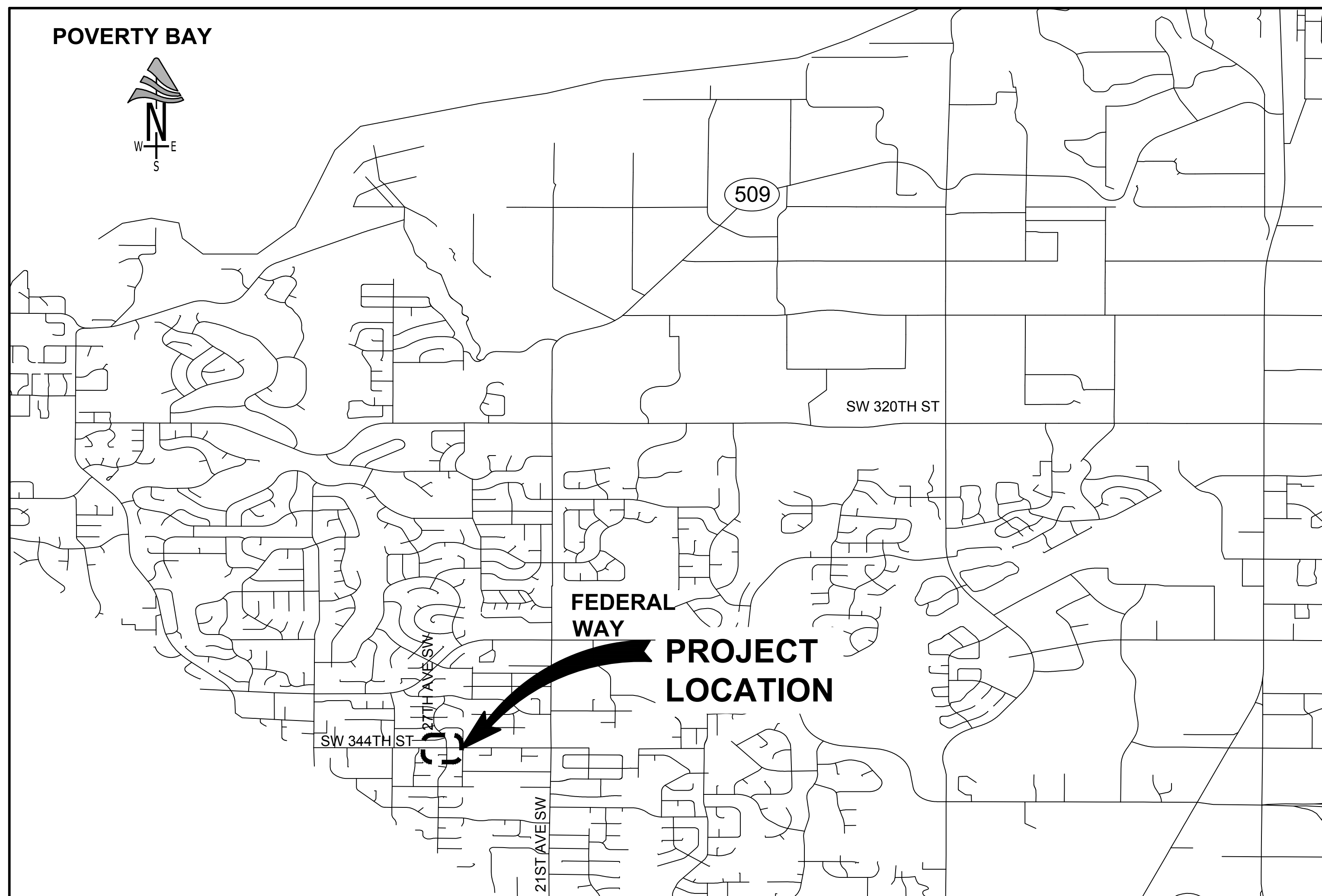
City of Federal Way

Public Works Department

27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT

FEDERAL AID: HSIP-1014(002)

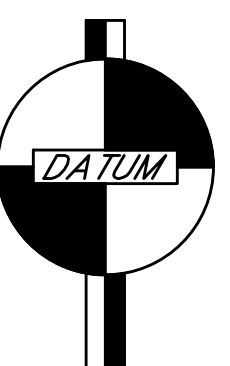
CITY PROJECT #: 36232



SHEET INDEX

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APPROVED FOR CONSTRUCTION	
<i>Desiree S. Winkler</i>	8/2/2023
DESIREE S. WINKLER, P.E. DEPUTY PUBLIC WORKS DIRECTOR	DATE



NAD 83/91
NGVD-29

BID SET

RFB #: 23-007

CITY OF Federal Way Centered on Opportunity 33325 8TH AVE S FEDERAL WAY, WA 98003 PHONE: (253) 835-2700 WWW.CITYOFFEDERALWAY.COM	kpff 1601 5th Avenue, Suite 1600 Seattle, WA 98101 206.622.5822 www.kpff.com	DRAFTED: MRV DESIGNED: CJO REVIEWED: NDA APPROVED: JGM		DRAWING VERSION / REVISION LOG	27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT COVER SHEET, LOCATION MAP, & SHEET INDEX	CITY PROJECT #:										
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NO.	DATE	REVISION														
						SHEET										
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SURVEY CONTROL NOTES:

BASIS OF MERIDIAN:
 WASHINGTON STATE PLANE COORDINATE SYSTEM, NAD 83/91, NORTH ZONE
 4601 PER WASHINGTON STATE REFERENCE NETWORK

VERTICAL DATUM:
 NGVD 29, CONTRACTOR TO VERIFY ELEVATIONS TO LOCAL SITE CONTROL
 PRIOR TO CONSTRUCTION.

UTILITY NOTE:
 UTILITIES SHOWN HEREON ARE PER KPFF ON SITE SURVEY OF SURFACE
 FEATURES IN CONJUNCTION WITH UNDERGROUND UTILITY LOCATES
 PERFORMED BY KPFF, AS WELL AS AS-BUILT DATA ON FILE AT THE OFFICE
 OF KPFF. ALL UTILITIES SHOWN HEREON SHOULD BE CONSIDERED
 APPROXIMATE ONLY AND SHOULD BE VERIFIED PRIOR TO EXCAVATION.

BOUNDARY NOTE:
 BOUNDARY AND RIGHT OF WAY SHOWN HEREON ARE BASED ON BEST
 AVAILABLE RECORD INFORMATION ALONG WITH TIES TO LOCAL MONUMENTS.

METHOD OF SURVEY:
 CONTROL SURVEY PERFORMED USING GPS/RTK METHODS WITH THE USE OF
 TOPCON GR5 RECEIVERS, SUPPLEMENTAL CONTROL SURVEY AND
 TOPOGRAPHIC SURVEY PERFORMED USING A TOPCON PS-103 ROBOTIC
 TOTAL STATION.

THE SURVEY WORK PERFORMED DURING THE COURSE OF THIS SURVEY
 MEETS OR EXCEEDS THE STANDARDS AS SET FORTH IN WAC 332-130-090.

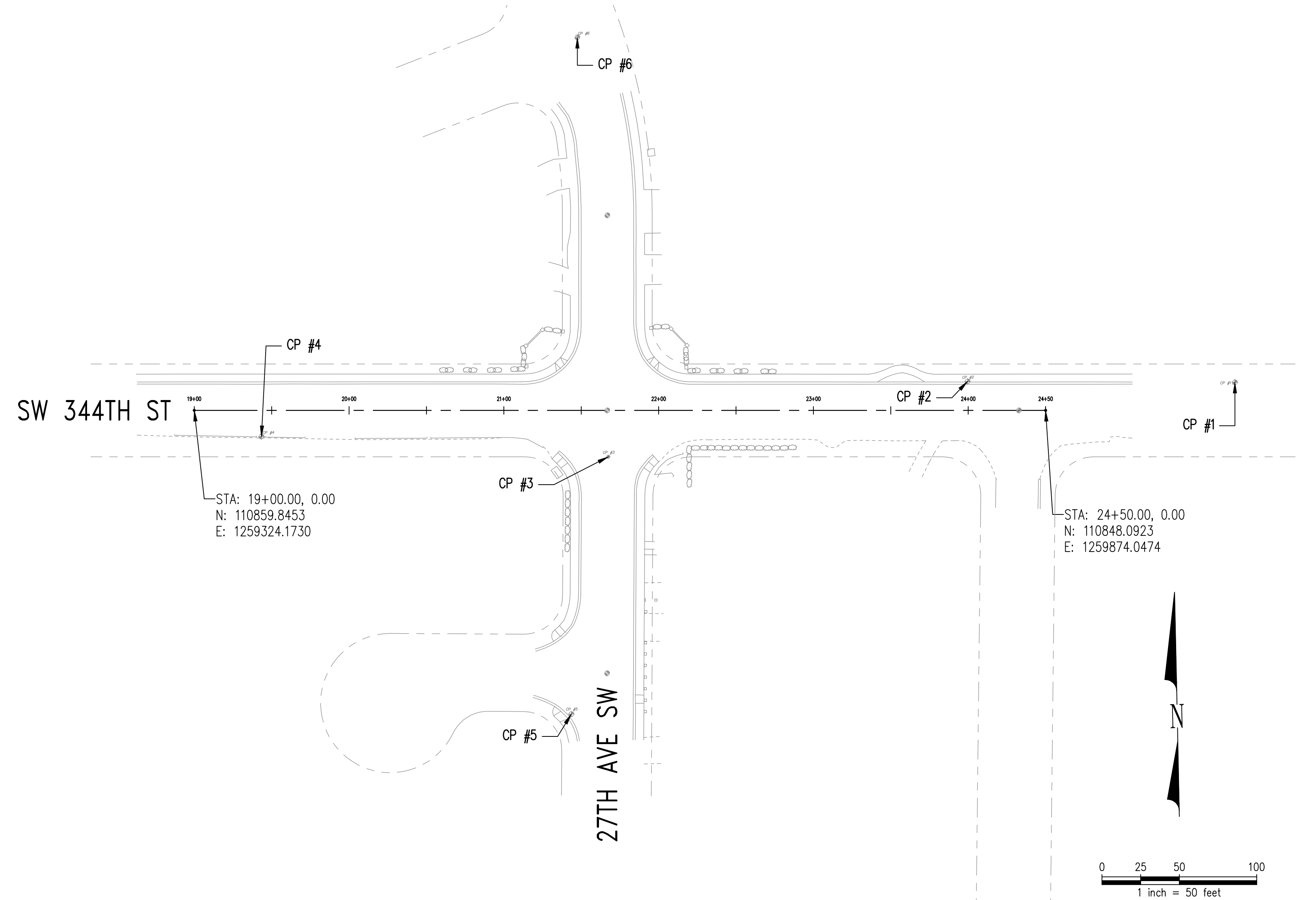
SURVEY WORK PERFORMED IN MARCH OF 2022.

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	110863.64	1259996.70	403.97	MAGNAIL
2	110867.90	1259824.04	399.21	MAGNAIL
3	110824.12	1259590.92	393.27	CASED MONUMENT
4	110841.97	1259367.11	395.97	MAGNAIL
5	110658.37	1259563.51	391.49	MAGNAIL
6	111095.63	1259576.70	383.41	CASED MONUMENT

LEGEND

	KPFF CONTROL POINTS		SANITARY SEWER MAN HOLE
	FOUND MONUMENTS		SIGN AS NOTED
	POWER VAULT		ROCK
	TRANSFORMER		BUSH
	POWER METER		HEDGE
	SMALL GROUND LIGHT		DECIDUOUS AS NOTED
	LIGHT JUNCTION BOX		CONIFER AS NOTED
	POWER JUNCTION BOX		FENCE AS NOTED
	POWER POLE		EDGE OF PAVEMENT
	STREET LIGHT W/ ARM		EDGE OF GRAVEL
	TELECOMMUNICATIONS MAN HOLE		STORM DRAIN
	TELECOMMUNICATIONS VAULT		SANITARY SEWER
	TELECOMMUNICATIONS PEDESTAL		GAS LINE
	WATER VALVE		WATER LINE
	FIRE HYDRANT		UNDERGROUND POWER
	WATER METER		UNDERGROUND TELECOMMUNICATIONS
	STORM DRAIN MAN HOLE		ROCK WALL HATCH
	CATCH BASIN		CONCRETE HATCH

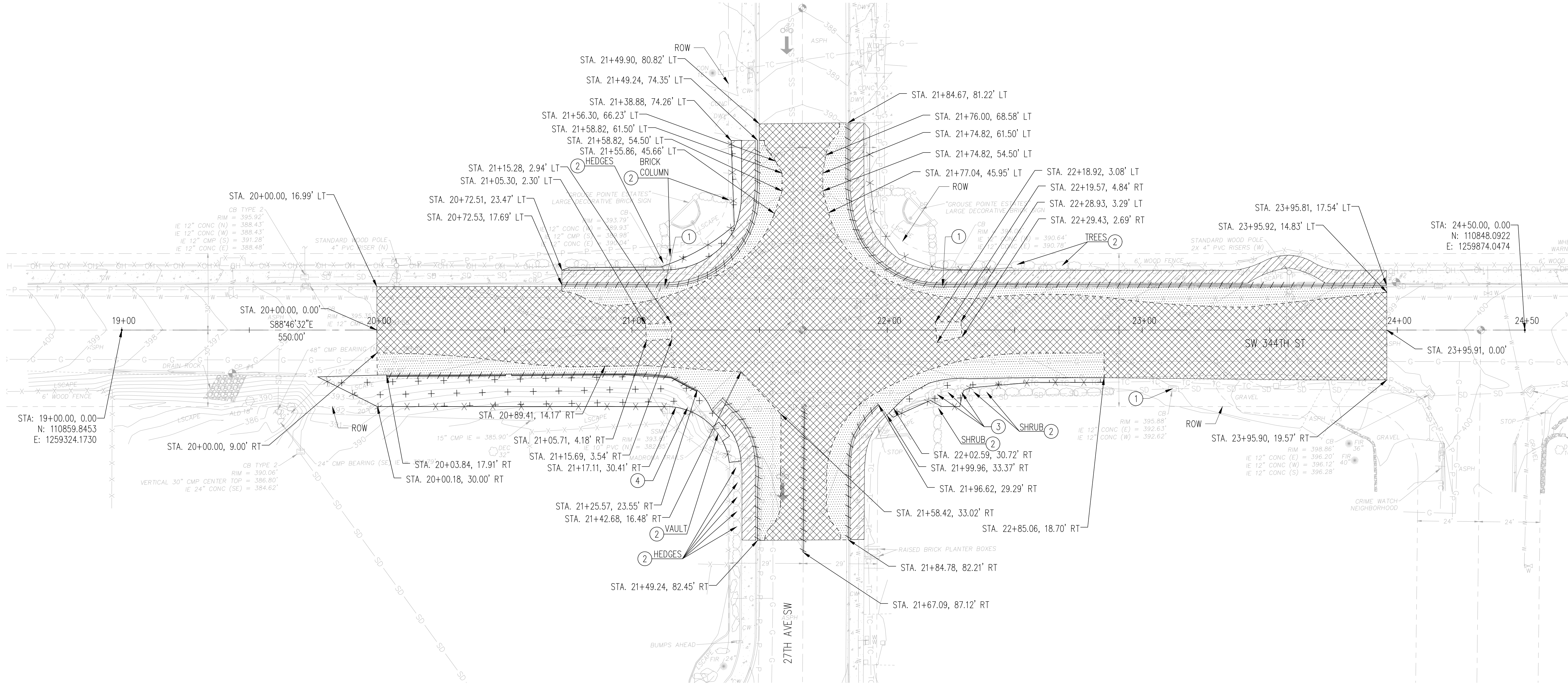
TOPOGRAPHIC SURVEY
 IN
 SECTION 17, TOWNSHIP 21 NORTH, RANGE 4 EAST, W.M.



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RFB #: 23-007

<p>CITY OF Federal Way Centered on Opportunity 33325 8TH AVE S FEDERAL WAY, WA 98003 PHONE: (253) 835-2700 WWW.CITYOFFEDERALWAY.COM</p>	<p>1601 5th Avenue, Suite 1600 Seattle, WA 98101 206.622.5822 www.kpff.com</p>	DRAFTED: MRV DESIGNED: CJO REVIEWED: NDA APPROVED: JGM	<p>JUSTIN G. MATTHEWS 40855 REGISTERED PROFESSIONAL ENGINEER 6/28/2023</p>	DRAWING VERSION / REVISION LOG		27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT ABBREVIATIONS, GENERAL NOTES & SURVEY LEGEND	CITY PROJECT #:
				NO.	DATE		REVISION
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GENERAL NOTES

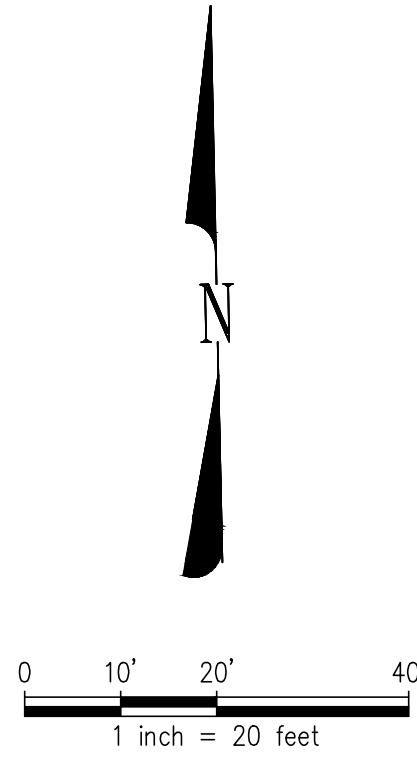
- REMOVE ALL PAVEMENT MARKINGS BETWEEN STA 20+00.00 TO 23+95.91
- SAWCUT SHALL BE 2.0' MINIMUM FROM PROPOSED CURB AND CUTTER, SEE ROUNDABOUT GRADING PLAN G001 FOR CURB GEOMETRY
- STORM DRAINAGE INLET PROTECTION SHALL BE PLACED AT NEXT DOWNSTREAM INLETS NORTH AND SOUTH OF THE PROJECT LIMITS ON 27TH AVE SW

LEGEND

-----	SAWCUT		PLANING BITUMINOUS PAVEMENT
+++++	REMOVE CURB, INCLUDED IN ROADWAY EX. BID ITEM		REMOVE ASPHALT PAVEMENT INCLUDED IN ROADWAY EX. BID ITEM
-----	RIGHT OF WAY		REMOVE SIDEWALK, INCLUDED IN ROADWAY EX. BID ITEM
-x-x-	SILT FENCE PER WSDOT STD PLAN I-30.15.02		CLEARING AND GRUBBING

CONSTRUCTION NOTES

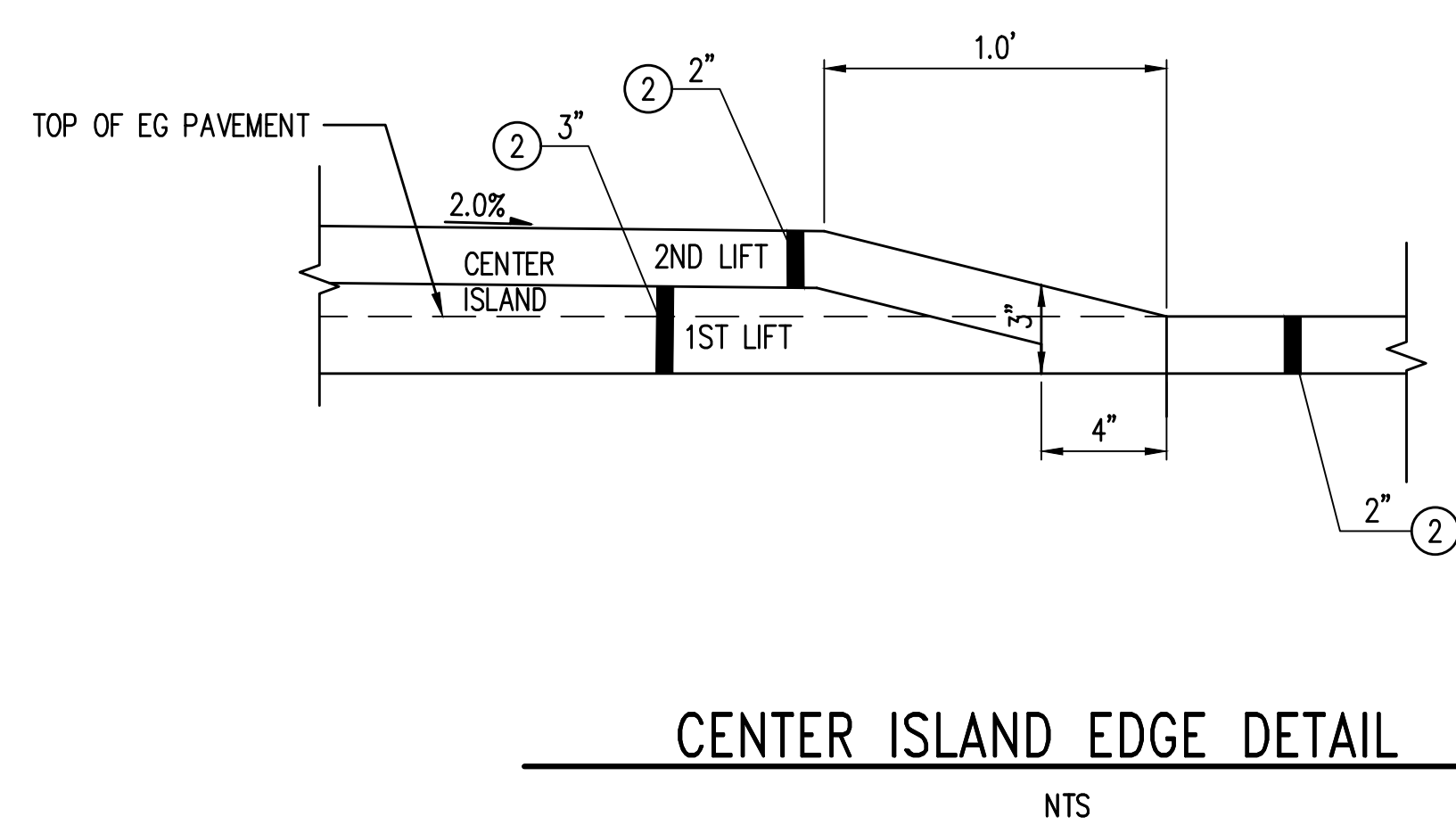
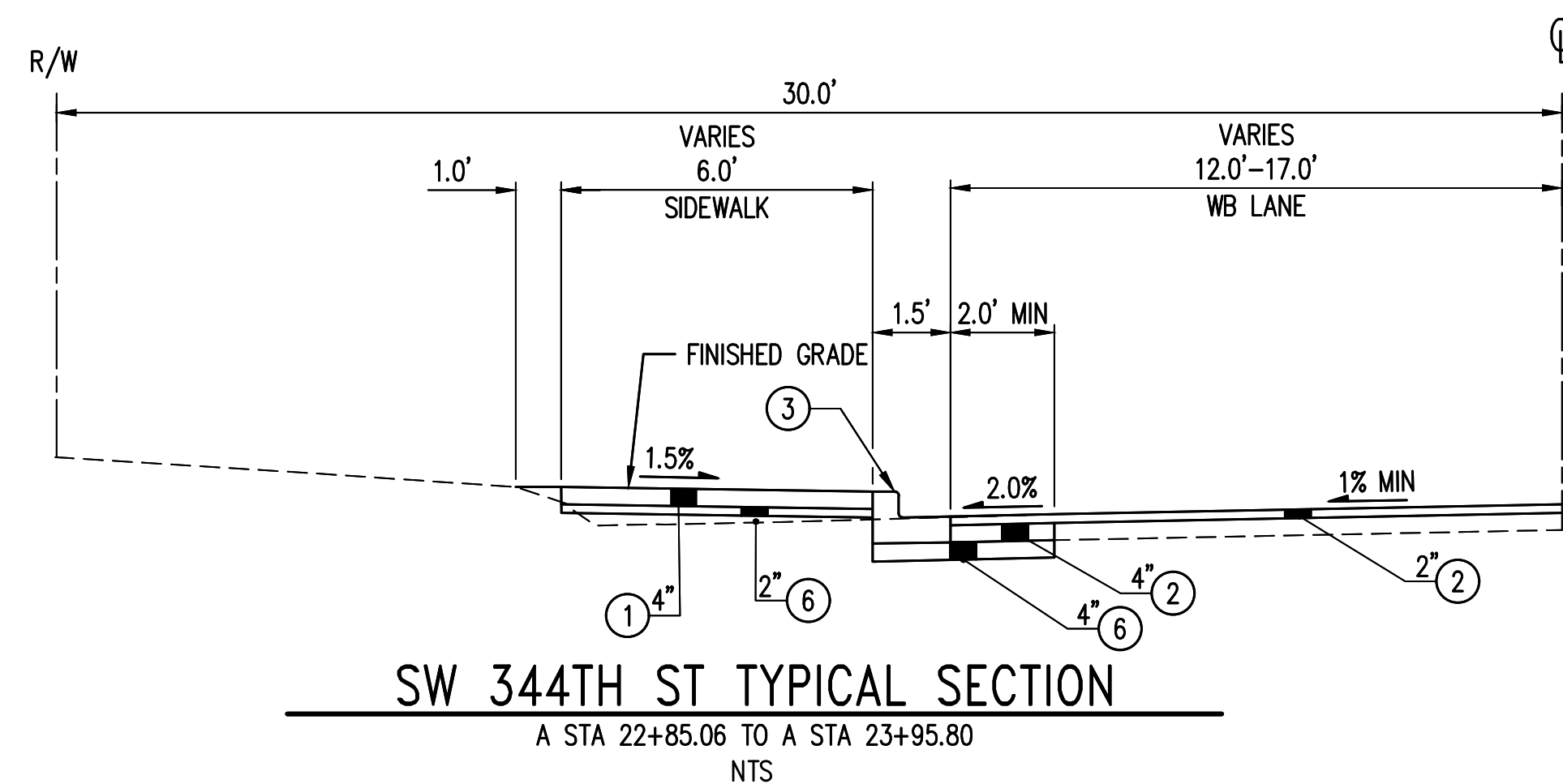
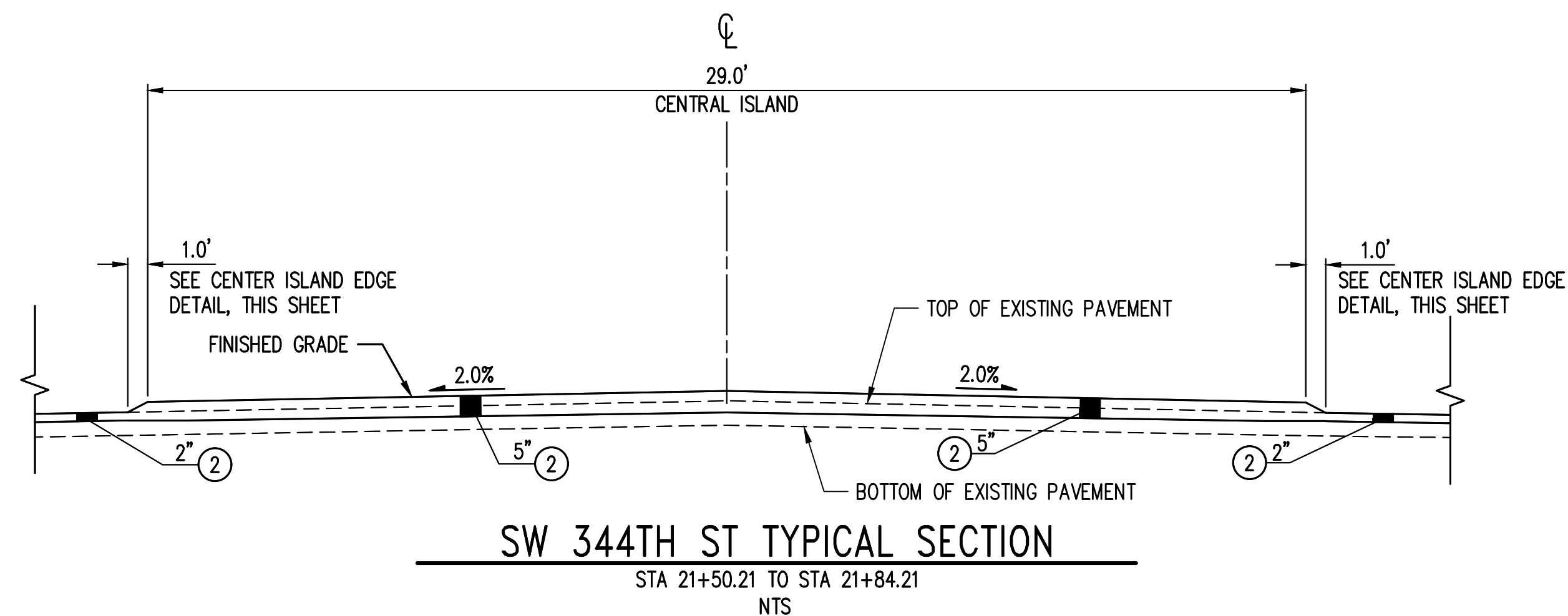
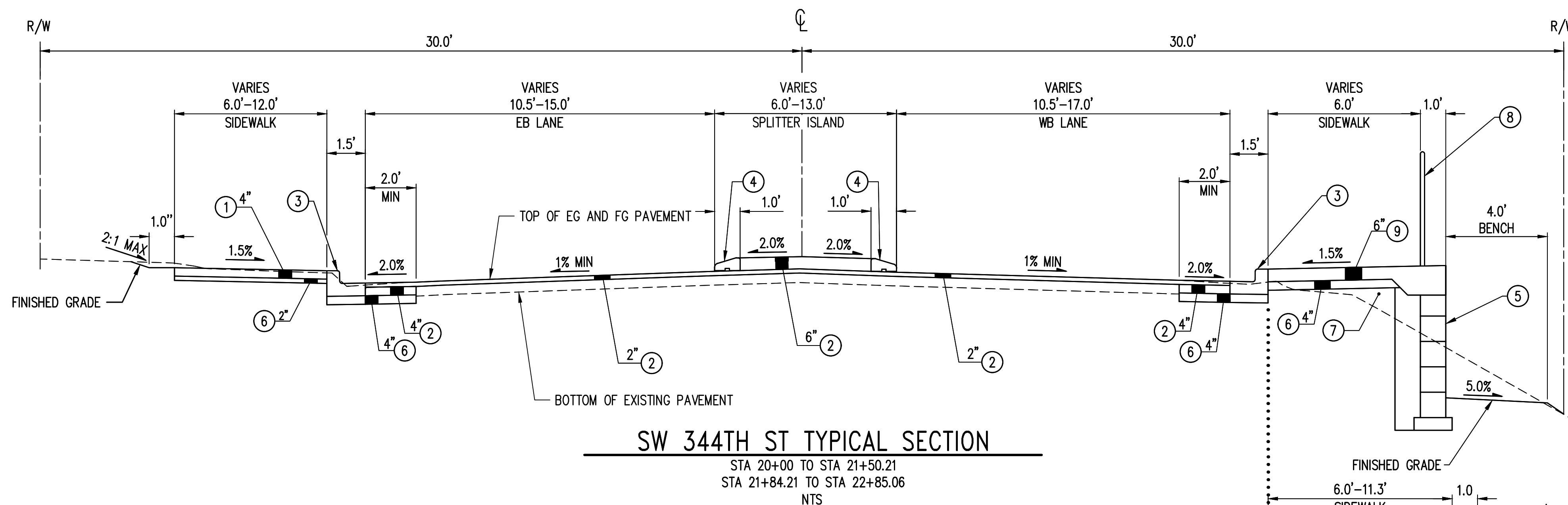
- INLET PROTECTION PER WSDOT STD PLAN I-40.20-00
- PRESERVE AND PROTECT FEATURE AS NOTED
- REMOVE SHRUB
- REMOVE TREE STUMP



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		DRAFTED: MRV DESIGNED: CJO REVIEWED: NDA APPROVED: JGM		DRAWING VERSION / REVISION LOG	27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT SITE PREP AND TESC	CITY PROJECT #:							
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NO.	DATE	REVISION											
SHEET						SP01							
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- CONSTRUCTION NOTES**
- ① CEMENT CONCRETE SIDEWALK PER CFW STD DWG 3-12
 - ② HMA CL. 1/2", PG 58H-22
 - ③ CEMENT CONCRETE CURB AND GUTTER PER CFW STD DWG 3-4
 - ④ PRECAST SLOPED MOUNTABLE CURB PER WSDOT STD PLAN F-10.62-02, ATTACH CURB TO PAVEMENT WITH EPOXY PER WSDOT STANDARD SPECIFICATIONS
 - ⑤ GRAVITY BLOCK WALL, SEE SHEET WD01 FOR DETAILS
 - ⑥ CRUSHED SURFACING TOP COURSE (CSTC)
 - ⑦ GRAVEL BORROW
 - ⑧ BLACK VINYL COATED CHAIN LINK FENCE TYPE 4 MODIFIED PER WSDOT STD PLAN L-20.10-03, SEE SHEET WP01 FOR ADDITIONAL DETAILS
 - ⑨ CEMENT CONCRETE CL 4000 FOR SIDEWALK

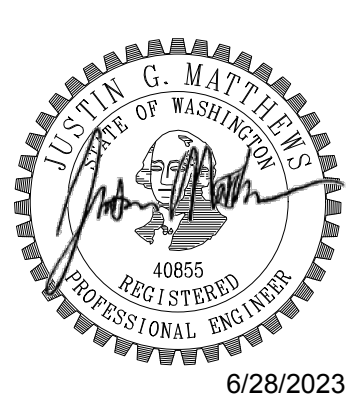
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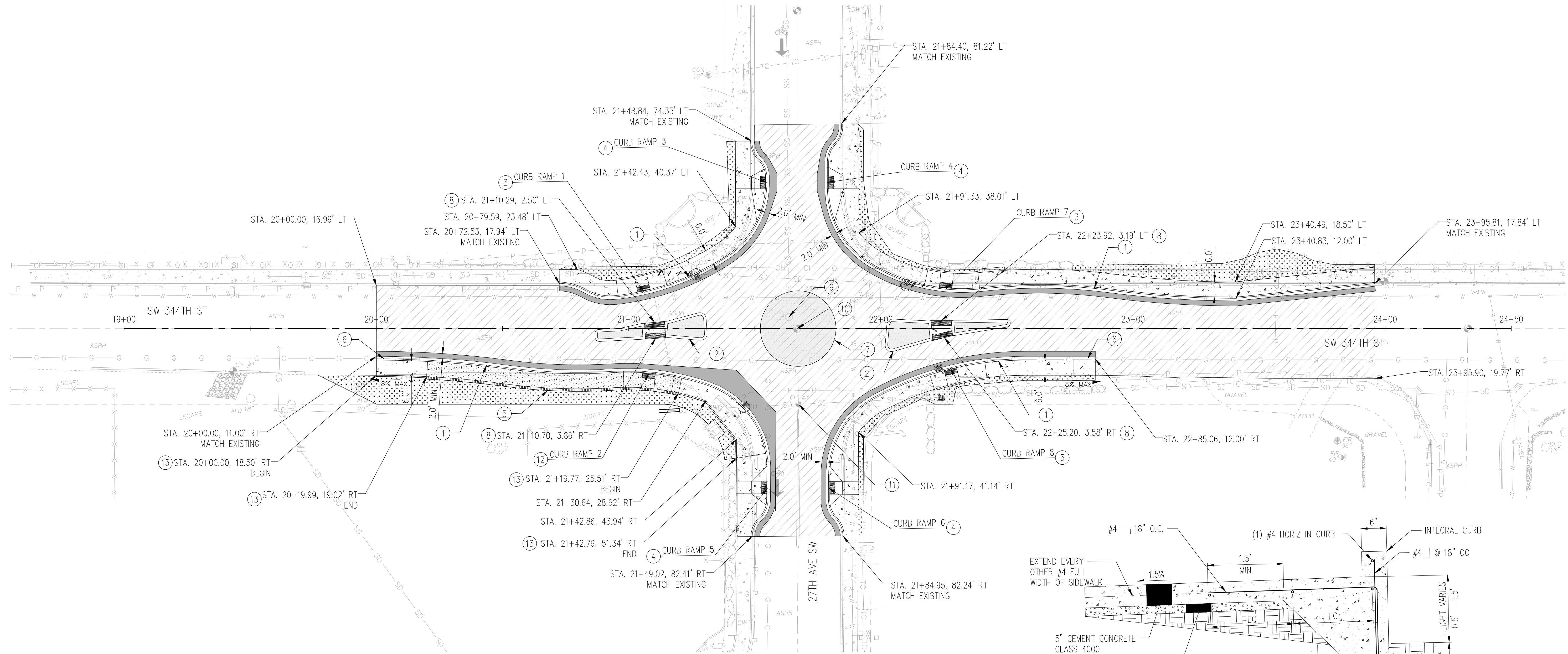


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27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT

TYPICAL SECTIONS

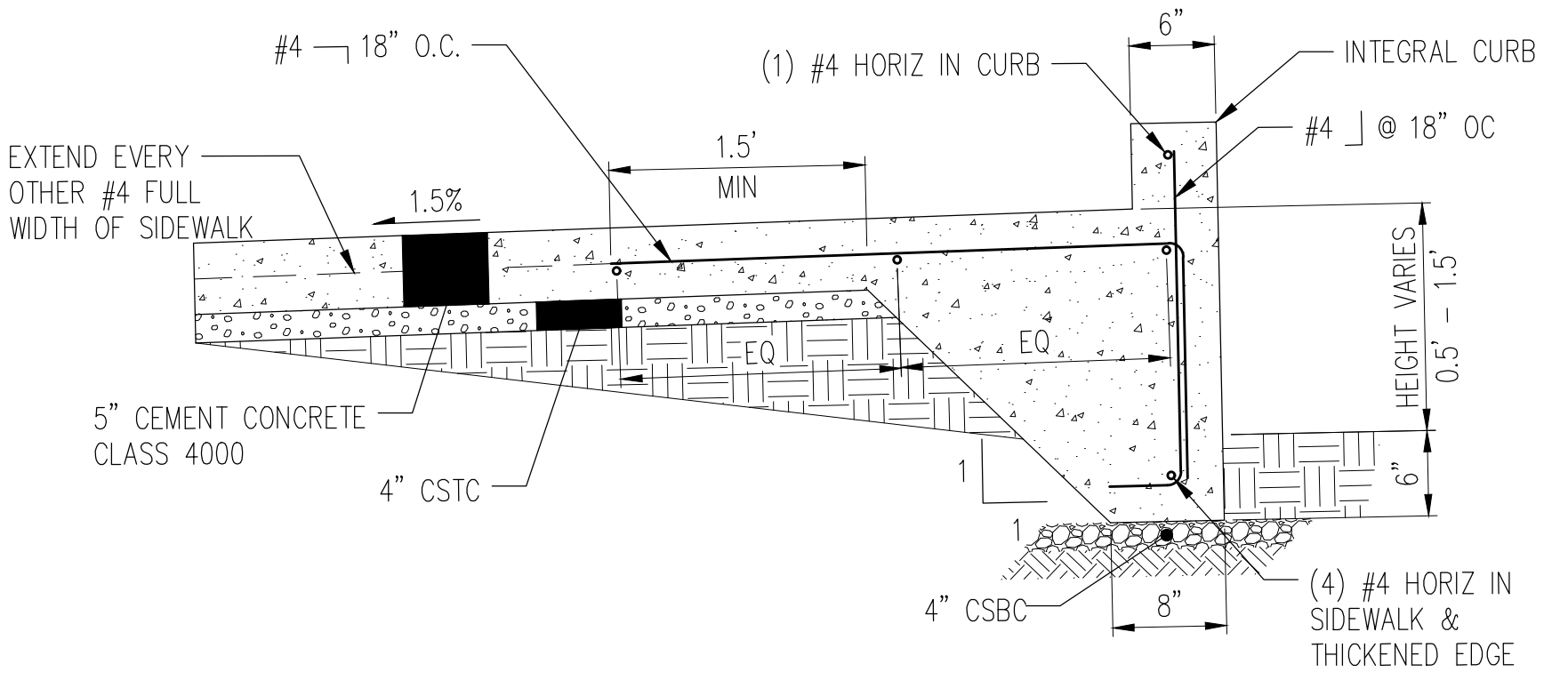
CITY PROJECT #:	36232
SHEET	TS01
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- GENERAL NOTES**
- SAWCUT SHALL BE PER SITE PLAN SEE SHEET SP01
 - SEE SHEET GD01 FOR HORIZONTAL AND VERTICAL GEOMETRY
 - ALL SIDEWALK SURFACES TO BE FINISHED PER COFW STD 3-3 AND 3-12

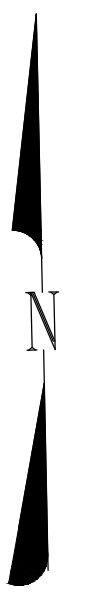
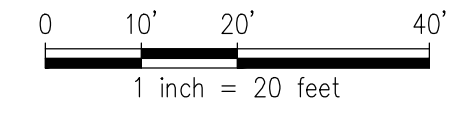
- LEGEND**
- RIGHT OF WAY
 - GRAVITY BLOCK WALL, SEE WD01 FOR DETAIL
 - CEMENT CONC. SIDEWALK, PER COFW STD 3-3 AND 3-12
 - CONC. CLASS 4000 FOR SIDEWALKS, SEE SHEET WP01
 - HMA 1/2" PG 58H-22, FULL DEPTH
 - HMA 1/2" PG 58H-22 DEPTH VARIES, SEE SHEET TS01
 - HMA 1/2" PG 58H-22, 2" OVERLAY
 - SEEDING AND FERTILIZING

- CONSTRUCTION NOTES**
- CONSTRUCT CEMENT CONCRETE CURB AND GUTTER PER COFW STD DWG 3-4
 - INSTALL PRECAST SLOPED MOUNTABLE CURB PER WSDOT STD PLAN F-10.62.02, RADII VARIES. SEE SHEETS GD01 AND TS01 FOR DETAILS
 - CONSTRUCT CEMENT CONC. CURB RAMP TYPE PARALLEL PER COFW STD DWG 3-8A
 - CONSTRUCT CEMENT CONC. CURB RAMP TYPE PERPENDICULAR PER COFW STD DWG 3-11
 - CONSTRUCT GRAVITY BLOCK WALL, SEE SHEET WP01 FOR WALL LIMITS AND DETAILS
 - CURB HEIGHT TRANSITION FROM 0" TO 6"
 - CONSTRUCT CENTER ISLAND HMA THICKENED EDGE, SEE DWG TS01, DETAIL 1
 - INSTALL DETECTABLE WARNING SURFACE
 - COORDINATE WITH LAKEHAVEN WATER AND SEWER DISTRICT, TO ADJUST RIM TO GRADE
 - INSTALL MONUMENT CASE, COVER, AND PIPE PER COFW STD DWG 3-35
 - ADJUST MONUMENT CASE AND COVER
 - CONSTRUCT CEMENT CONC. CURB RAMP TYPE PARALLEL PER COFW STD DWG 3-8B
 - CONSTRUCT THICKENED EDGE SIDEWALK. SEE DETAIL THIS SHEET.



- NOTES:**
- PROVIDE FULL HEIGHT EXPANSION JOINT IN THICKENED EDGE AT EACH SIDEWALK EXPANSION JOINT. INTERRUPT HORIZ REINF STEEL AT EXPANSION JOINTS.
 - LAP ALL REINF 2'-0".
 - 2" CLR COVER FOR ALL REINF.

DETAIL - THICKENED EDGE SIDEWALK
SCALE: 1" = 1'

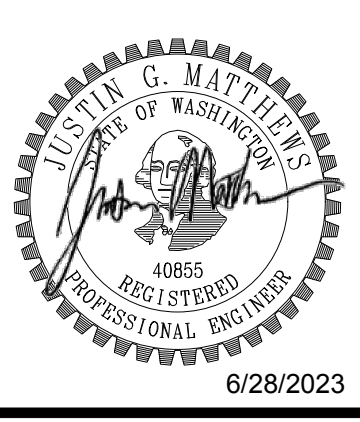


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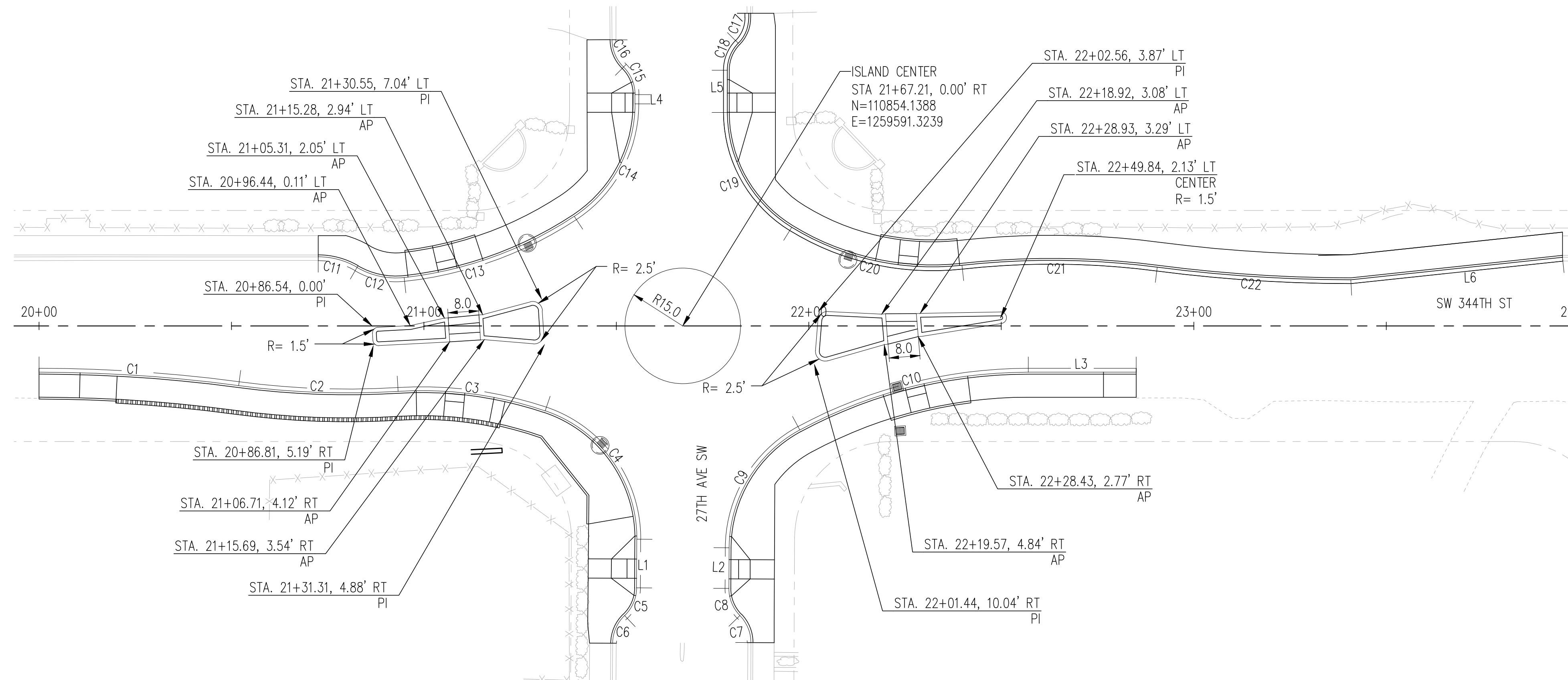


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27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT

PAVING PLAN

CITY PROJECT #: 36232
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ROUNDABOUT LINE/CURVE TABLE

CURVE #	LENGTH	RADIUS	BEARING/DE LTA	BEGIN STA	OFFSET	BOTTOM FACE OF CURB/FLOWLINE						END STA	OFFSET
						BEGIN	1/4	1/2	3/4	END			
C1	52.01'	388.00'	07°40'51"	20+00	12.00' RT	394.79	394.51	394.24	393.94	393.64	20+51.86	15.48' RT	
C2	41.54'	212.00'	11°13'33"	20+51.86	15.48' RT	393.64	393.50	393.35	393.30	393.25	20+93.30	16.97' RT	
C3	38.78'	100.00'	22°13'19"	20+93.30	16.97' RT	393.25	393.20	393.15	393.10	393.05	21+31.51	22.05' RT	
C4	43.76'	35.00'	71°37'44"	21+31.51	22.04' RT	393.05	392.96	392.96	393.05	393.00	21+55.30	55.39' RT	
L1	12.65'	—	N01°31'43"E	21+55.30	55.39' RT	393.00	—	—	—	392.85	21+55.23	68.03' RT	
C5	8.05'	10.00'	46°07'35"	21+55.23	68.03' RT	392.85	392.79	392.74	392.69	392.64	21+52.13	75.23' RT	
C6	8.04'	10.00'	46°04'03"	21+52.13	75.23' RT	392.64	392.59	392.54	392.52	392.50	21+49.02	82.41' RT	
C7	7.78'	10.00'	44°34'40"	21+49.02	82.24' RT	392.49	392.53	392.57	392.61	392.66	21+82.09	75.21' RT	
C8	7.81'	10.00'	44°43'57"	21+82.09	75.21' RT	392.66	392.71	392.77	392.82	392.87	21+79.23	68.16' RT	
L2	10.54'	—	S01°31'43"W	21+79.23	68.16' RT	392.87	—	—	—	393.01	21+79.29	57.62' RT	
C9	37.47'	35.00'	61°19'52"	21+79.29	57.62' RT	393.01	393.11	393.21	393.35	393.50	21+97.66	27.01' RT	
C10	61.88'	125.00'	28°21'53"	21+97.66	27.01' RT	393.50	393.82	394.13	394.56	395.00	22+57.05	12.00' RT	
L3	28.02'	—	N88°46'32"W	22+57.05	12.00' RT	395.00	—	—	—	395.77	22+85.06	12.00' RT	

ROUNDABOUT LINE/CURVE TABLE

CURVE #	LENGTH	RADIUS	BEARING/DE LTA	BEGIN STA	OFFSET	BOTTOM FACE OF CURB/FLOWLINE						END STA	OFFSET
						BEGIN	1/4	1/2	3/4	END			
C11	10.58'	20.00'	30°17'50"	20+72.53	17.94' RT	393.38	393.37	393.35	393.34	393.33	20+82.61	15.21' LT	
C12	12.74'	20.00'	36°30'19"	20+82.61	15.21' LT	393.33	393.31	393.29	393.28	393.26	20+94.87	12.59' LT	
C13	47.42'	100.00'	27°10'19"	20+94.87	12.59' LT	393.26	393.20	393.13	392.96	392.64	21+39.07	28.49' LT	
C14	34.60'	35.00'	56°38'12"	21+39.07	28.49' LT	392.64	392.78	392.41	392.02	391.48	21+54.82	57.72' LT	
L4	2.39'	—	S01°13'09"W	21+54.82	57.72' LT	391.48	—	—	—	391.44	21+54.82	60.12' LT	
C15	7.94'	10.00'	45°29'28"	21+54.82	60.12' LT	391.44	391.31	391.15	390.99	390.83	21+51.83	67.25' LT	
C16	7.91'	10.00'	45°20'30"	21+51.83	67.25' LT	390.83	390.71	390.58	390.47	390.33	21+48.84	74.35' LT	
C17	7.38'	9.50'	44°29'26"	21+48.84	80.11' LT	390.01	390.15	390.29	390.43	390.56	21+81.68	73.45' LT	
C18	7.75'	10.00'	44°25'47"	21+81.68	73.45' LT	390.56	390.71	390.85	391.00	391.14	21+78.82	66.45' LT	
L5	10.95'	—	N01°13'09"E	21+78.82	66.45' LT	391.14	—	—	—	391.67	21+78.82	55.50' LT	
C19	35.75'	35.00'	58°31'09"	21+78.82	55.50' LT	391.67	392.21	392.74	393.15	393.49	21+95.55	25.65' LT	
C20	46.16'	70.00'	37°46'49"	21+95.55	25.65' LT	393.49	393.78	393.96	394.15	394.40	22+39.77	15.77' LT	
C21	50.88'	212.00'	13°45'07"	22+39.77	15.77' LT	394.40	394.68	395.00	395.33	395.71	22+90.53	15.26' LT	
C22	50.43'	388.00'	07°26'50"	22+90.53	15.26' LT	395.71	396.10	396.49	396.88	397.27	23+40.82	11.99' LT	
L6	55.29'	—	S85°09'38"W	23+40.82	11.99' LT	397.27	—	—	—	398.54	23+95.81	17.84' LT	

GENERAL NOTES

- HORIZONTAL CONTROL AND ELEVATIONS ARE MEASURED AT FACE OF CURB/FLOW LINE OF CURB AND GUTTER UNLESS OTHERWISE NOTED.
- SEE GDD01-GDD02 FOR CURB RAMP GRADING DETAILS

LEGEND

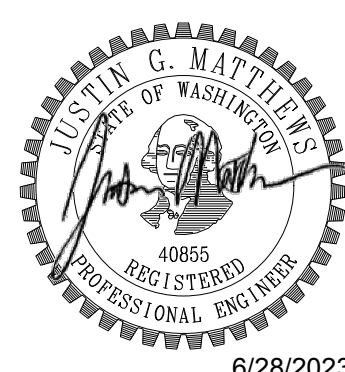
----- RIGHT OF WAY

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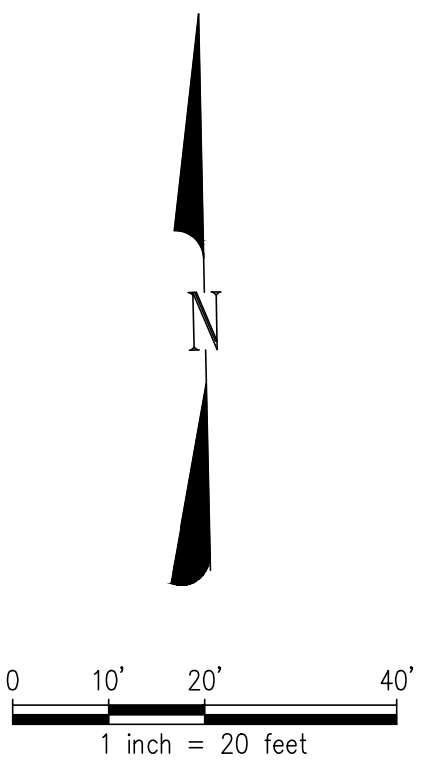
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GRADING PLAN

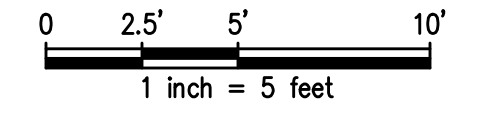
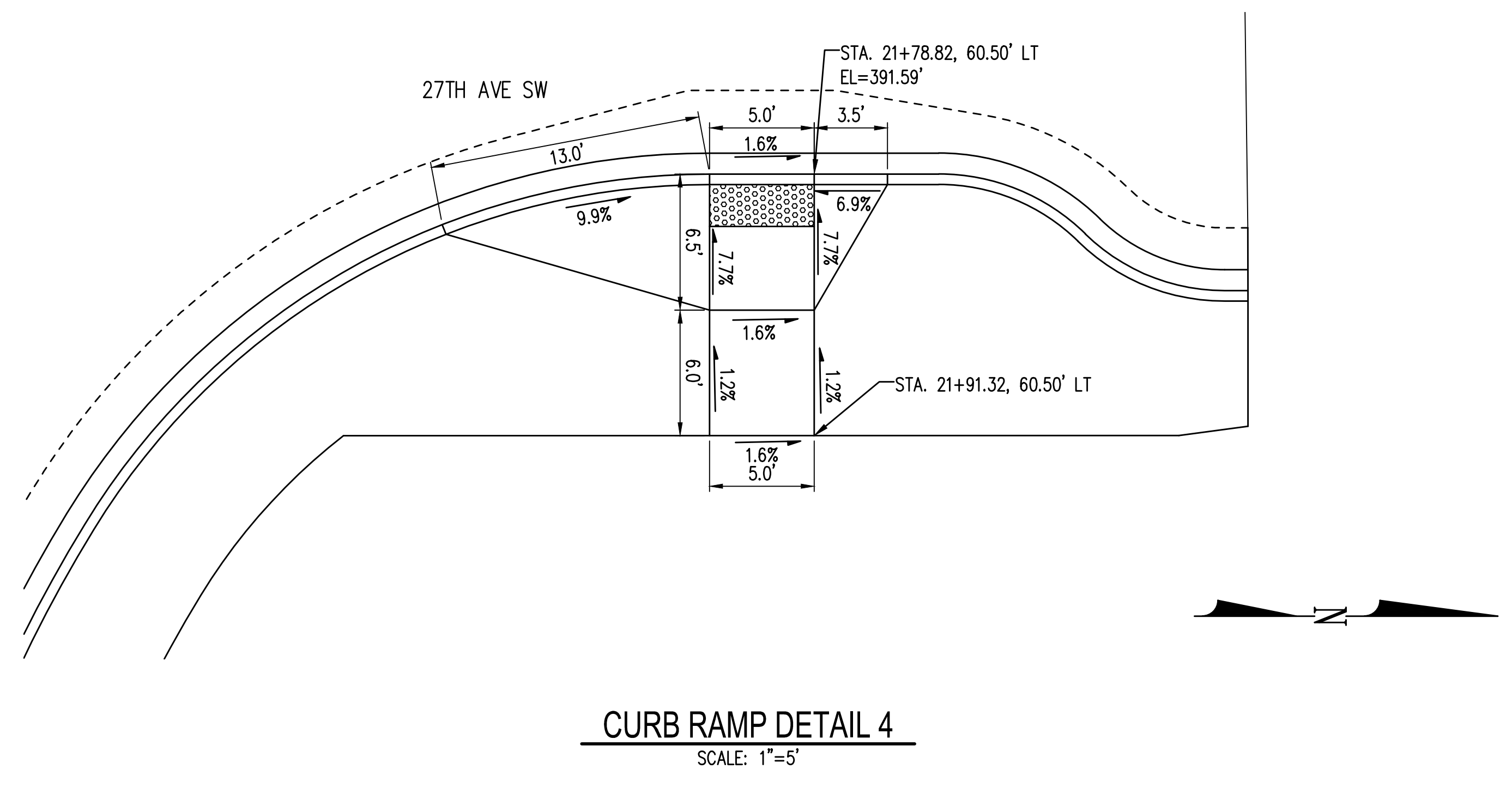
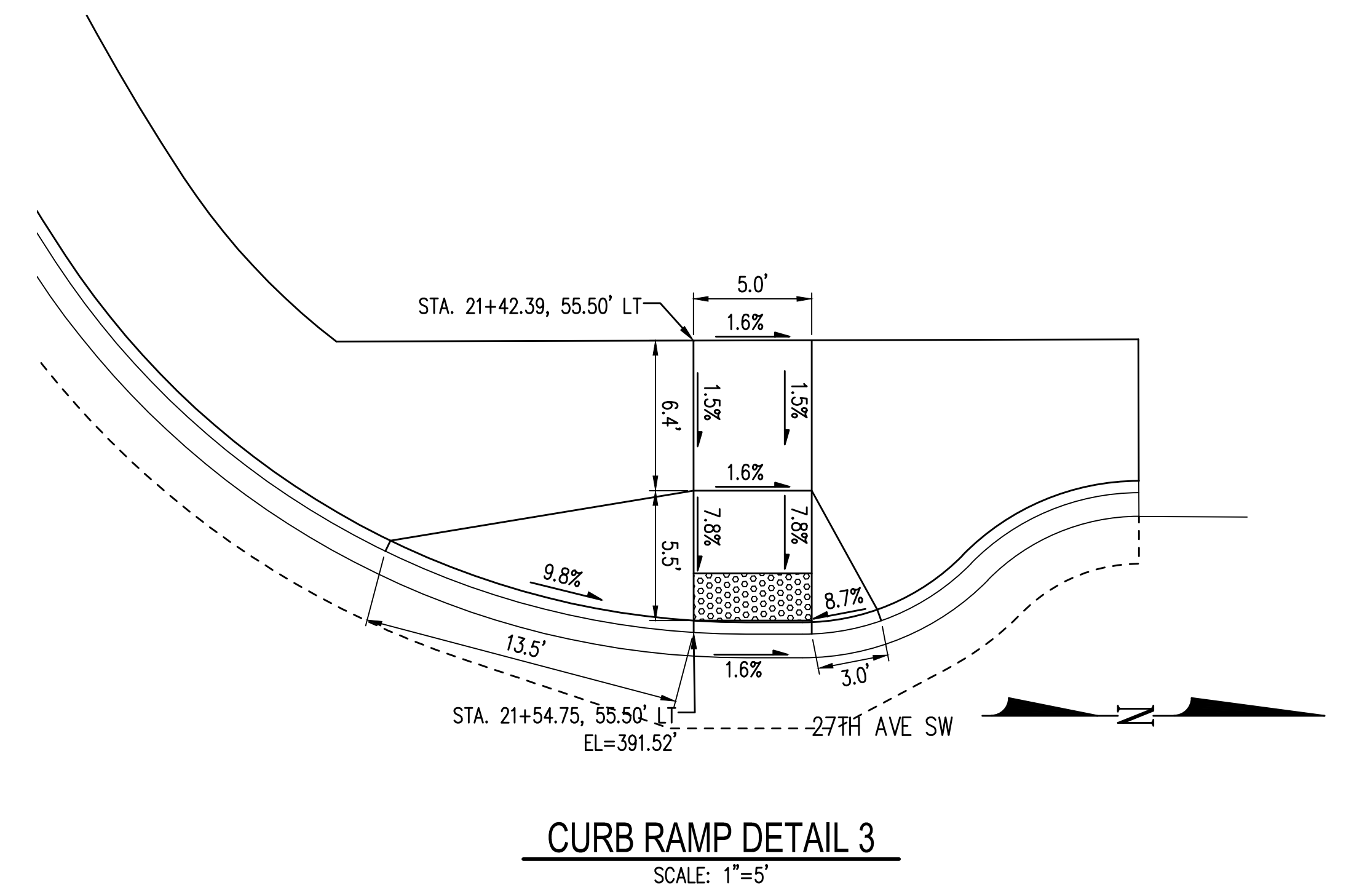
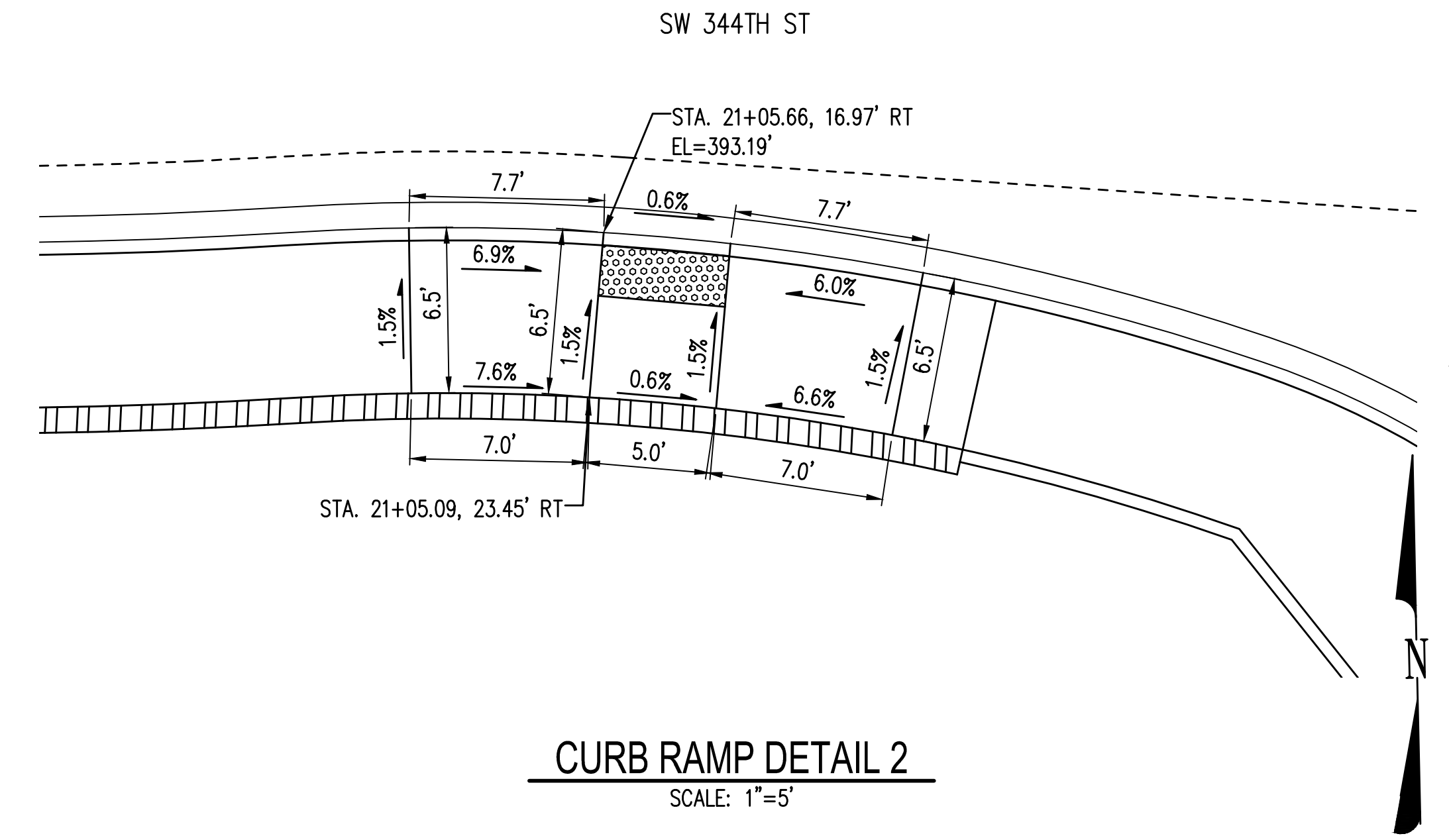
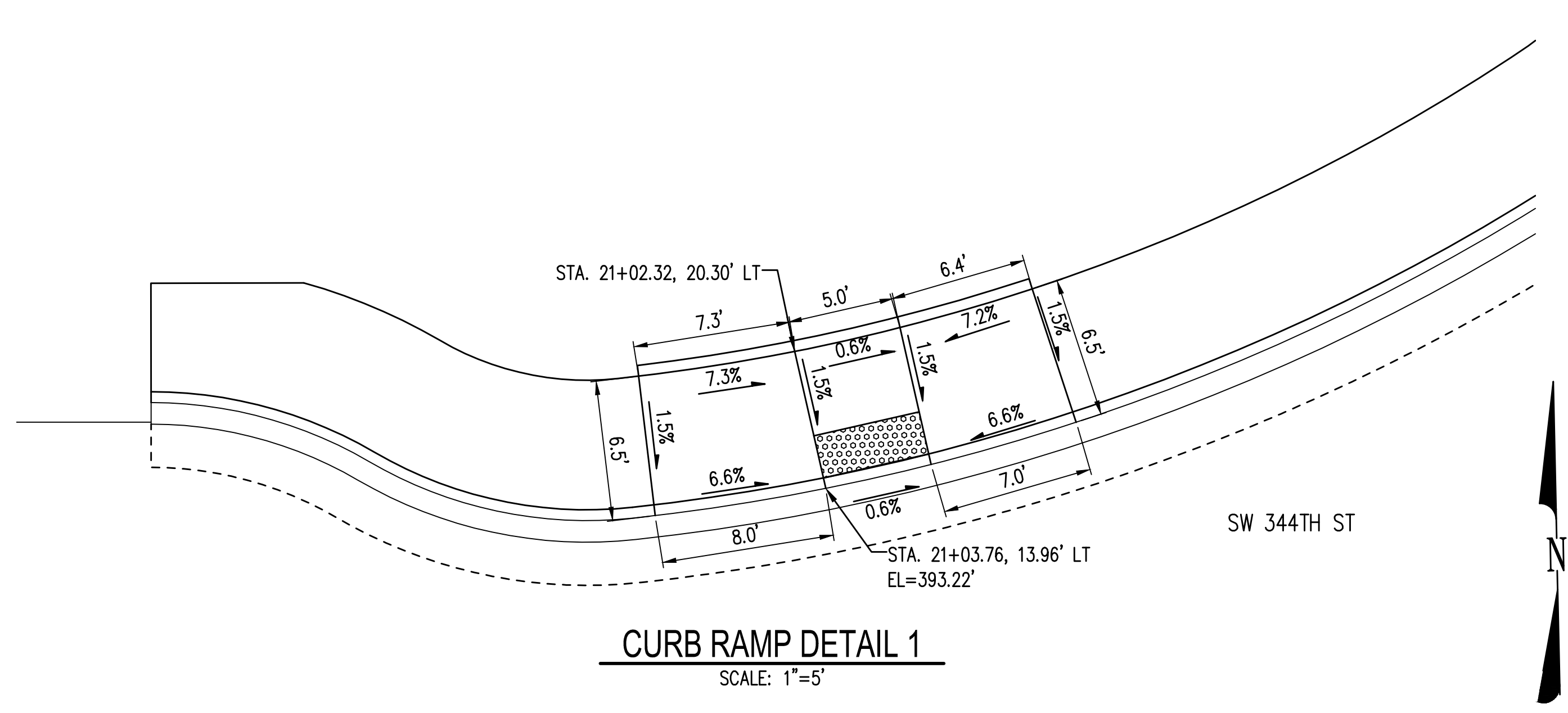
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GENERAL NOTES
 1. ELEVATIONS ARE MEASURED AT FLOW LINE OF CURB AND GUTTER UNLESS OTHERWISE NOTED

LEGEND
 ——— CURB & GUTTER
 - - - - - RIGHT OF WAY



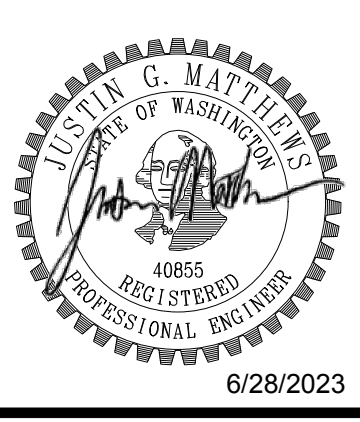
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RFB #: 23-007

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DRAFTED: MRV
 DESIGNED: CJO
 REVIEWED: NDA
 APPROVED: JGM



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NO.	DATE	REVISION

27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT

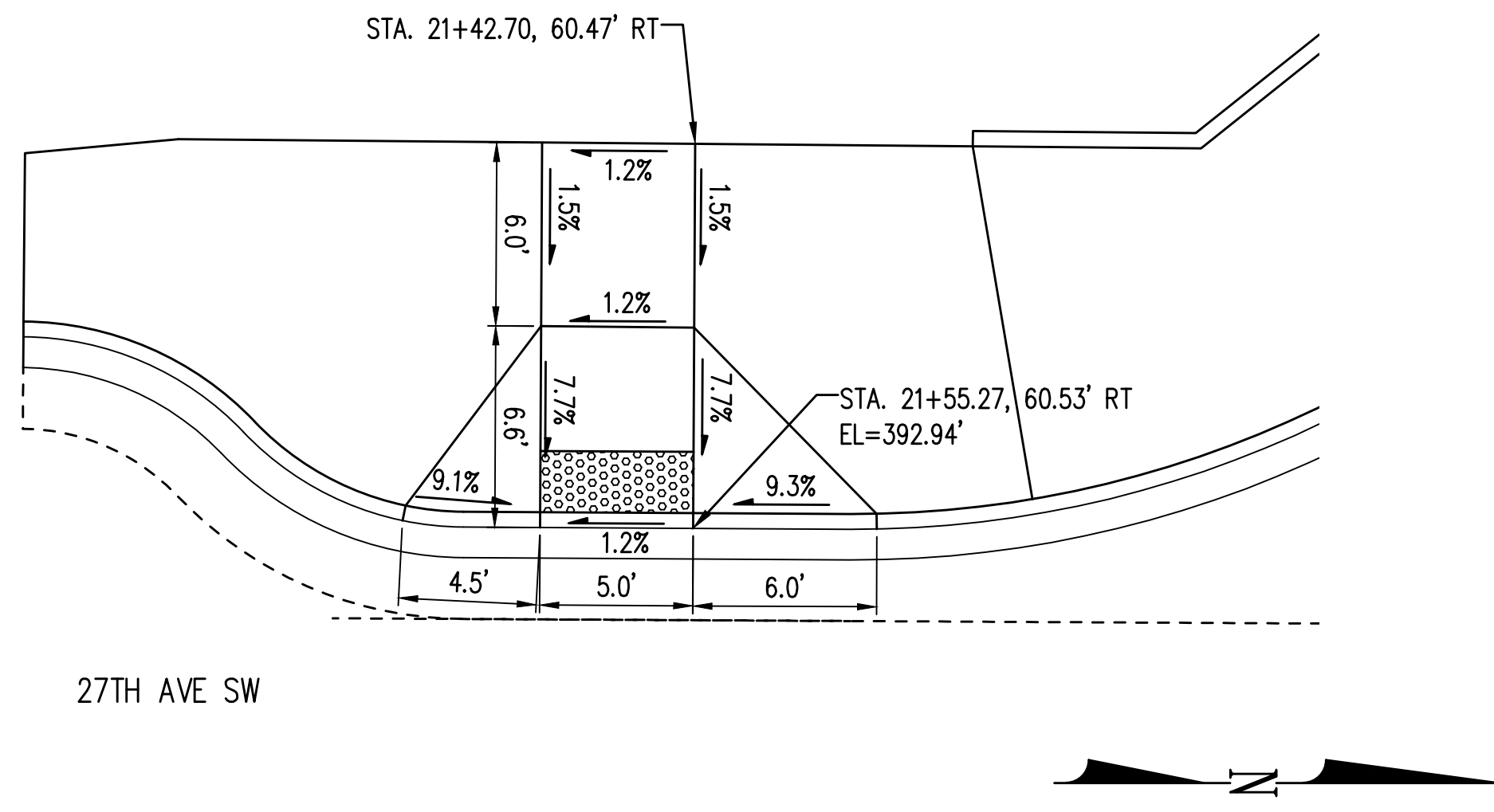
GRADING DETAILS

CITY PROJECT #: 36232
 SHEET: GDD01
 7 OF 17

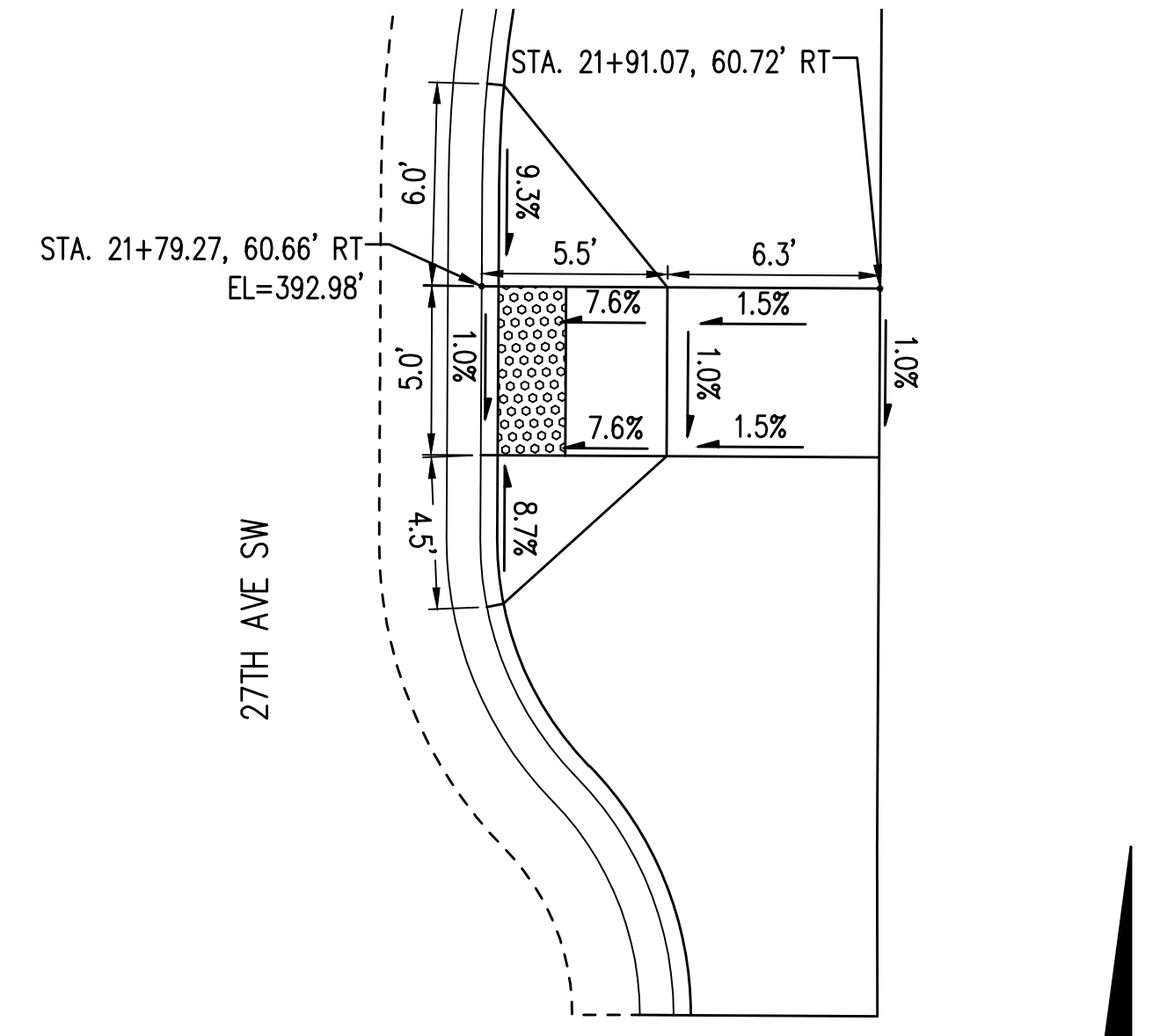
*** PLAN CENTER COPY *** Official bid documents, plan holder's list, and addenda (if applicable) are available on BXWA.com

GENERAL NOTES
 1. ELEVATIONS ARE MEASURED AT FLOW LINE OF CURB AND GUTTER UNLESS OTHERWISE NOTED

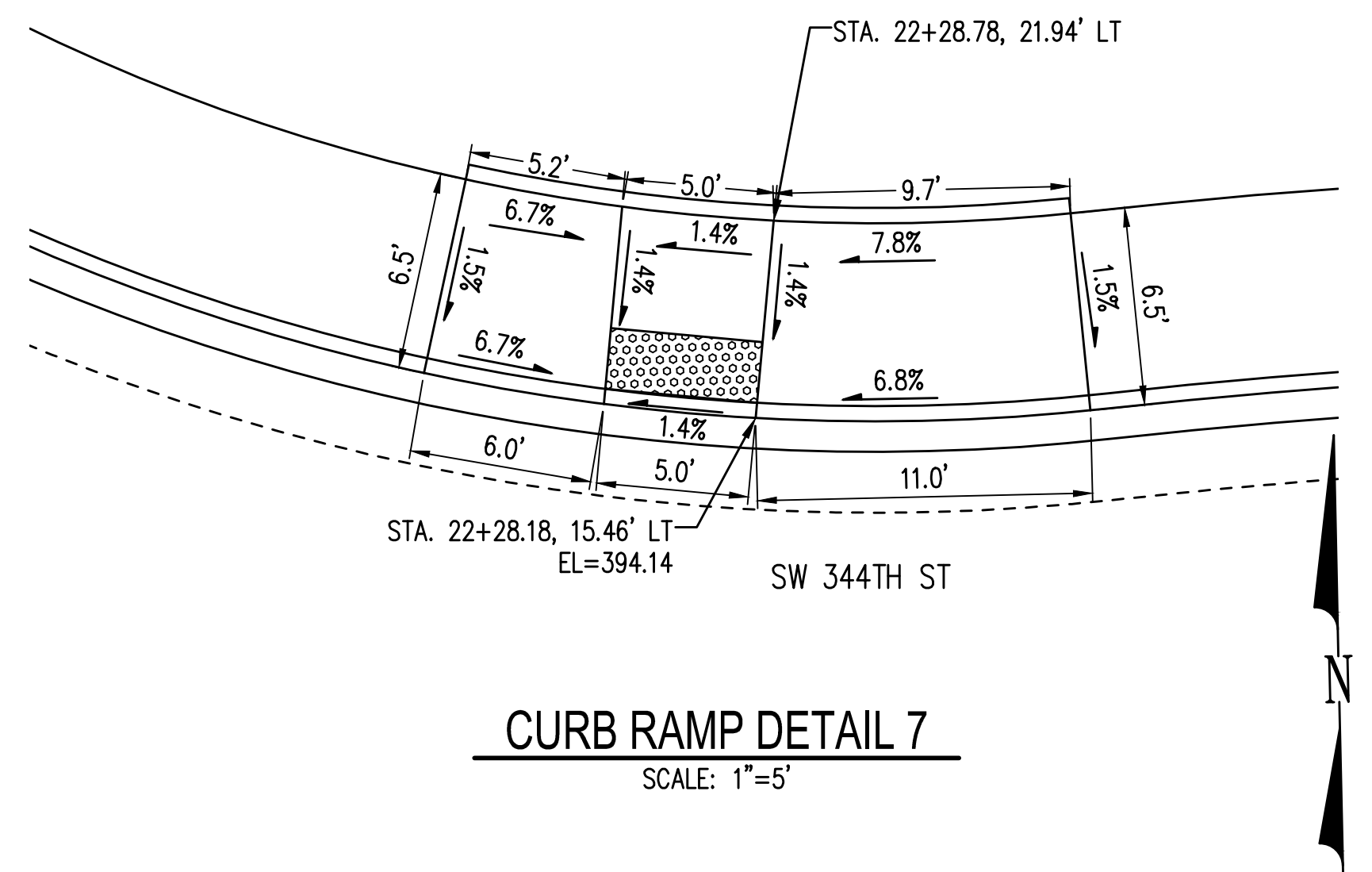
LEGEND
 ===== CURB & GUTTER
 - - - - - RIGHT OF WAY



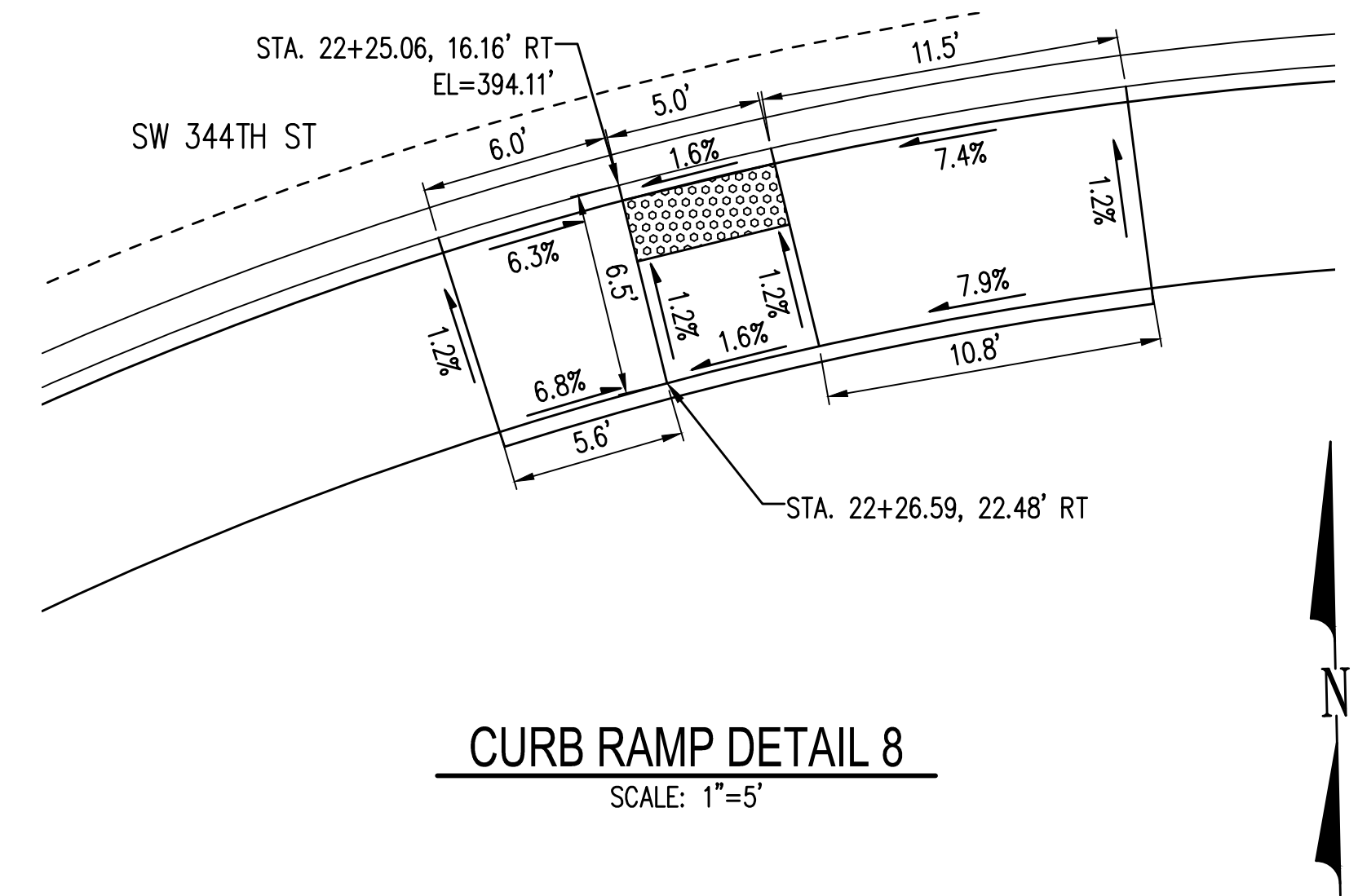
CURB RAMP DETAIL 5
 SCALE: 1"=5'



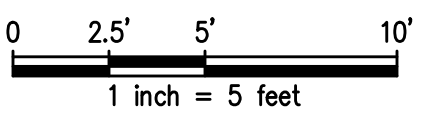
CURB RAMP DETAIL 6
 SCALE: 1"=5'



CURB RAMP DETAIL 7
 SCALE: 1"=5'



CURB RAMP DETAIL 8
 SCALE: 1"=5'



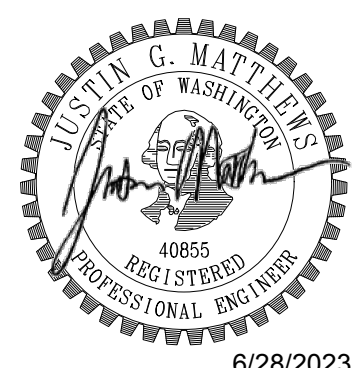
BID SET

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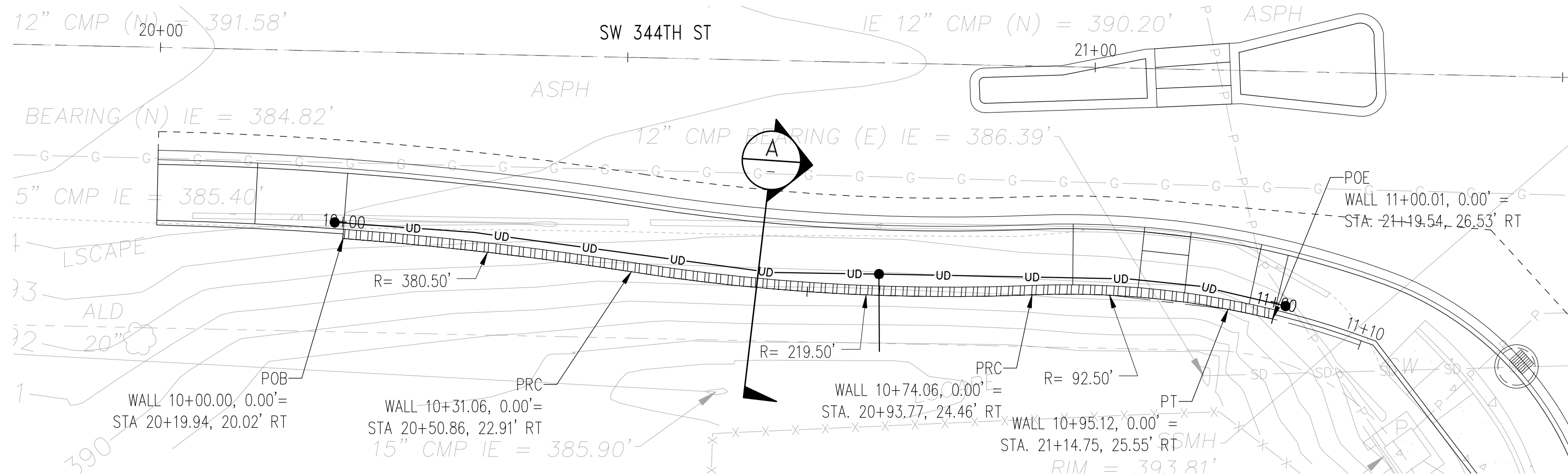
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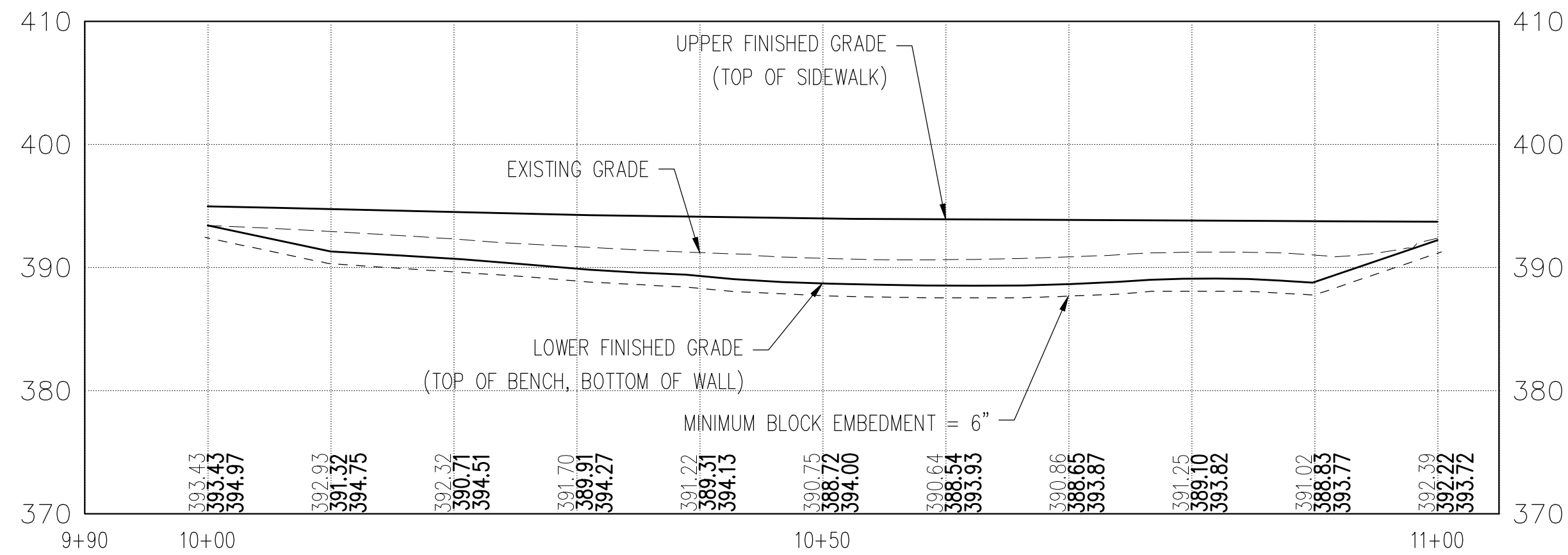
27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT

GRADING DETAILS

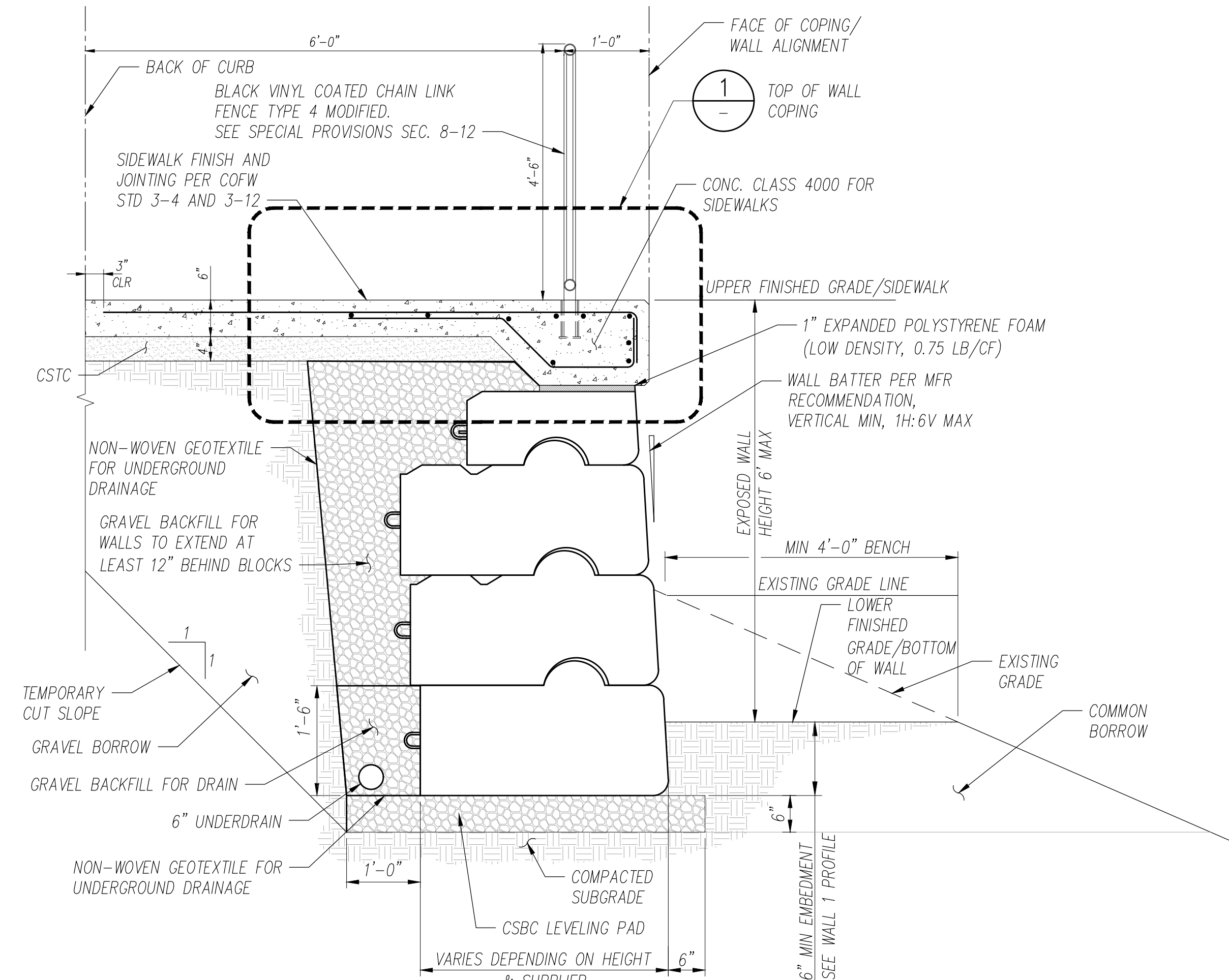
CITY PROJECT #: 36232
 SHEET: GDD02
 8 OF 17



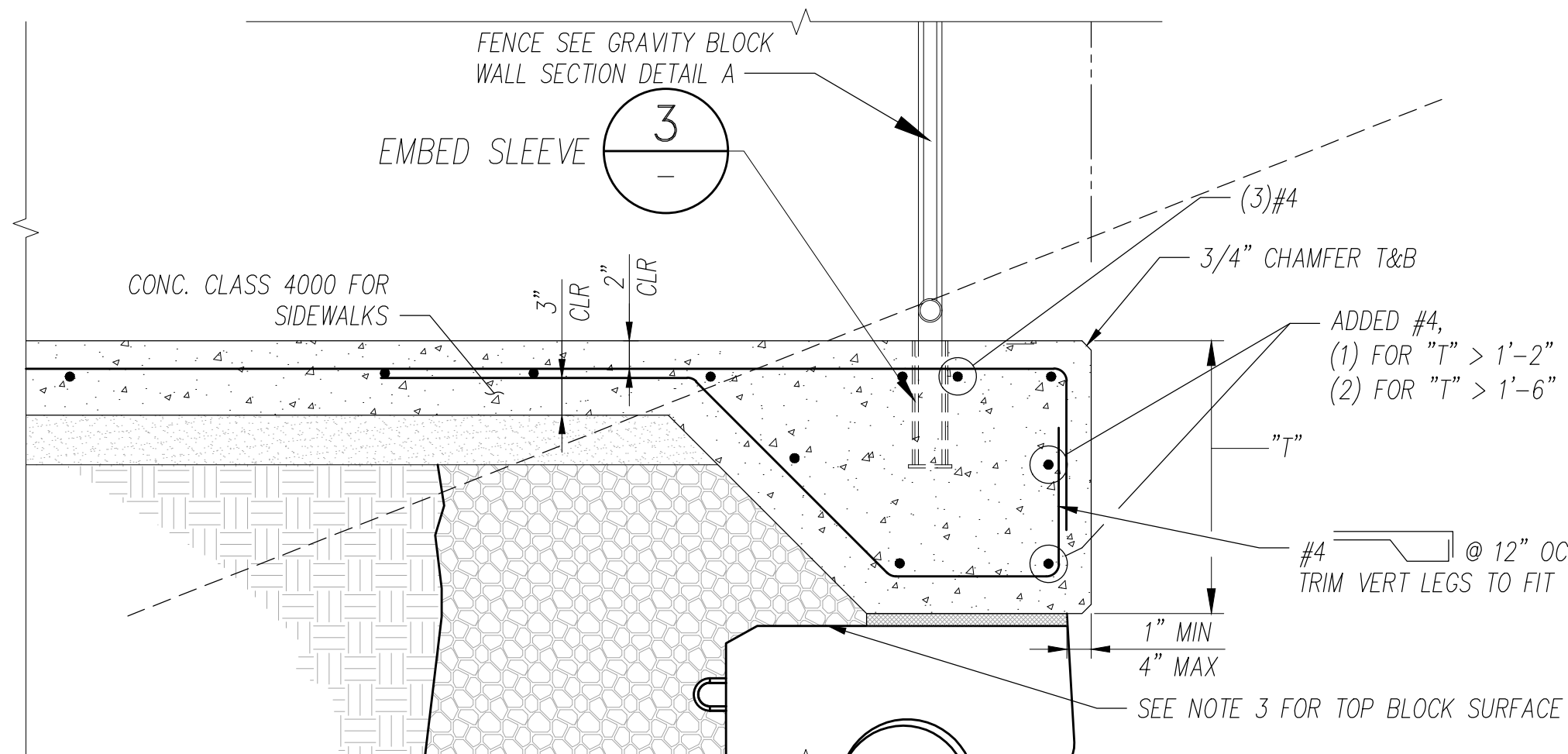
WALL PLAN
HORZ SCALE: 1" = 10'-0"



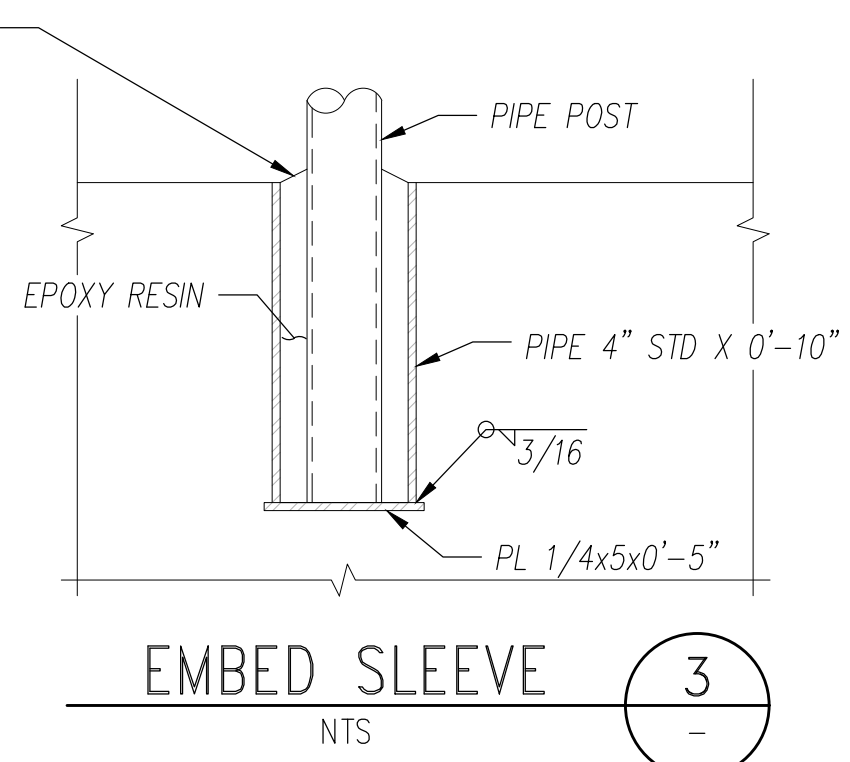
WALL PROFILE
HORZ SCALE: 1" = 10'-0"
VERT SCALE: 1" = 10'-0"



GRAVITY BLOCK WALL SECTION
SCALE: 3/4" = 1.0'



DETAIL - TOP OF WALL COPING
SCALE: 1" = 1'



EMBED SLEEVE (3) NTS

LEGEND

- XXXXX
XXXXX
XXXXX
- UPPER FINISHED GRADE ELEVATION
- LOWER FINISHED GRADE ELEVATION
- EXISTING GRADE ELEVATION

- GENERAL NOTES:**
- CUT LIMITS SHOWN ASSUME 1H:1V TEMPORARY CUT SLOPE FOR WALL EXCAVATION.
 - SIDEWALK EXPANSION JOINTS FOR SIDEWALKS ABOVE RETAINING WALLS SHALL EXTEND FULL DEPTH OF SIDEWALK AND "T" DIMENSION.
 - WHERE SIDEWALK IS PLACED ON TOP OF BLOCK WALL, CAST TOP BLOCK WITH FLAT TOP, OR REMOVE PROTRUDING KEY IN FIELD.
 - CONCRETE FOR COPING SHALL BE CLASS 4000.
 - REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
 - COPING (WALL CAP) THICKNESS "T" SHALL NOT EXCEED 2'-0"
 - CONTRACTOR TO ENSURE UNDERDRAIN SLOPE PROVIDES POSITIVE FLOW TO OUTLET.

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DRAFTED: MRV
DESIGNED: CJO
REVIEWED: NDA
APPROVED: JGM

ERICKSON
PROFESSIONAL ENGINEER
6/9/2023

DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT

WALL PROFILE

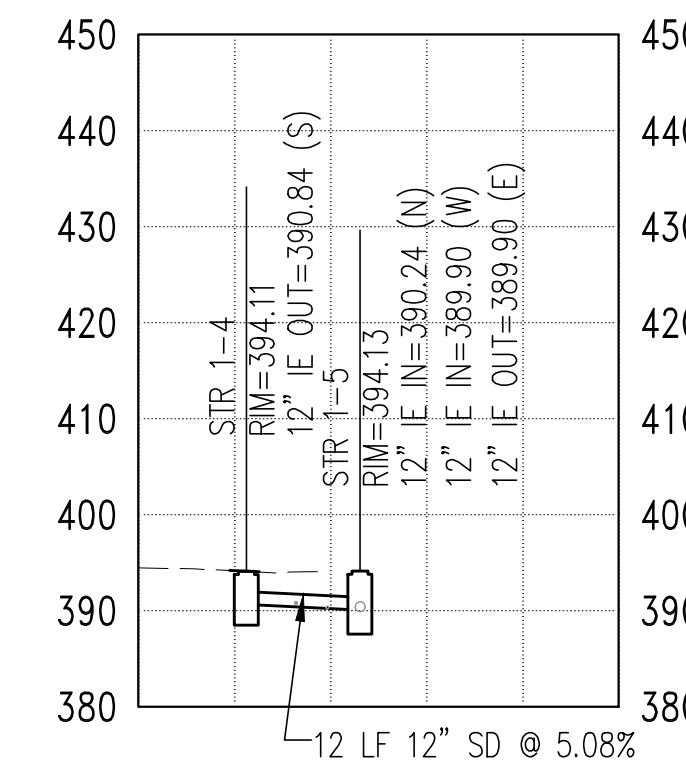
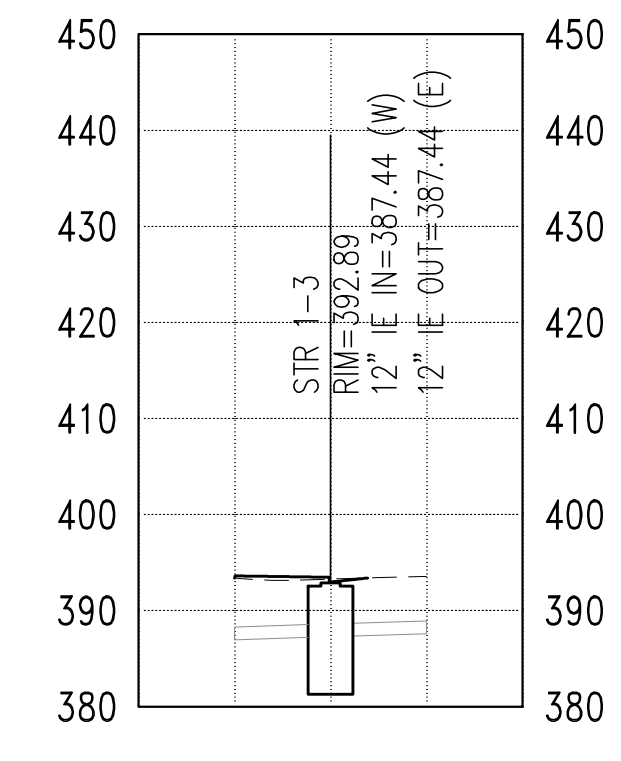
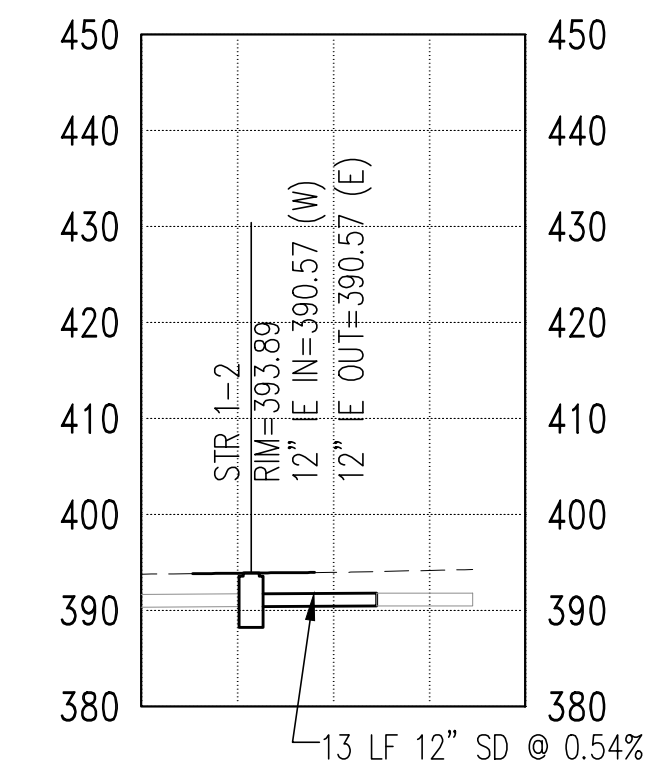
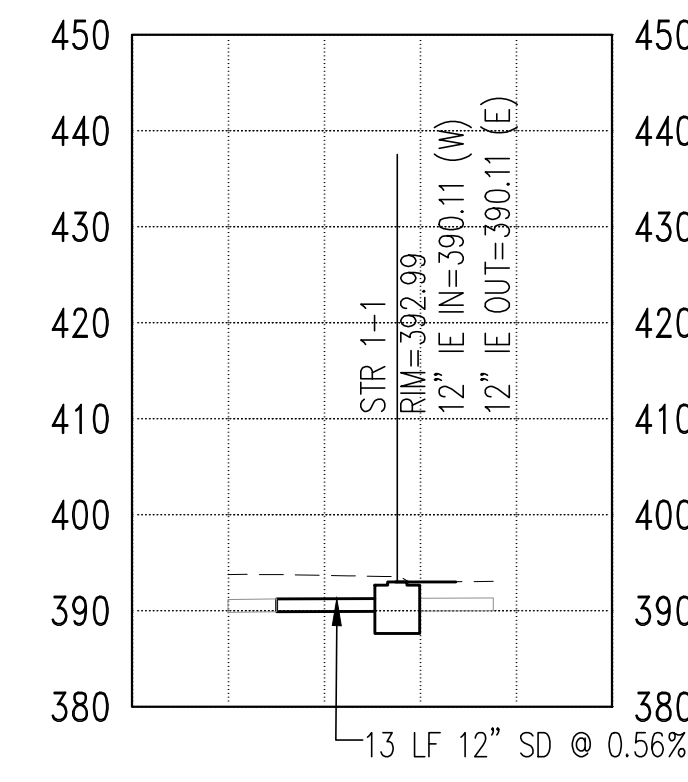
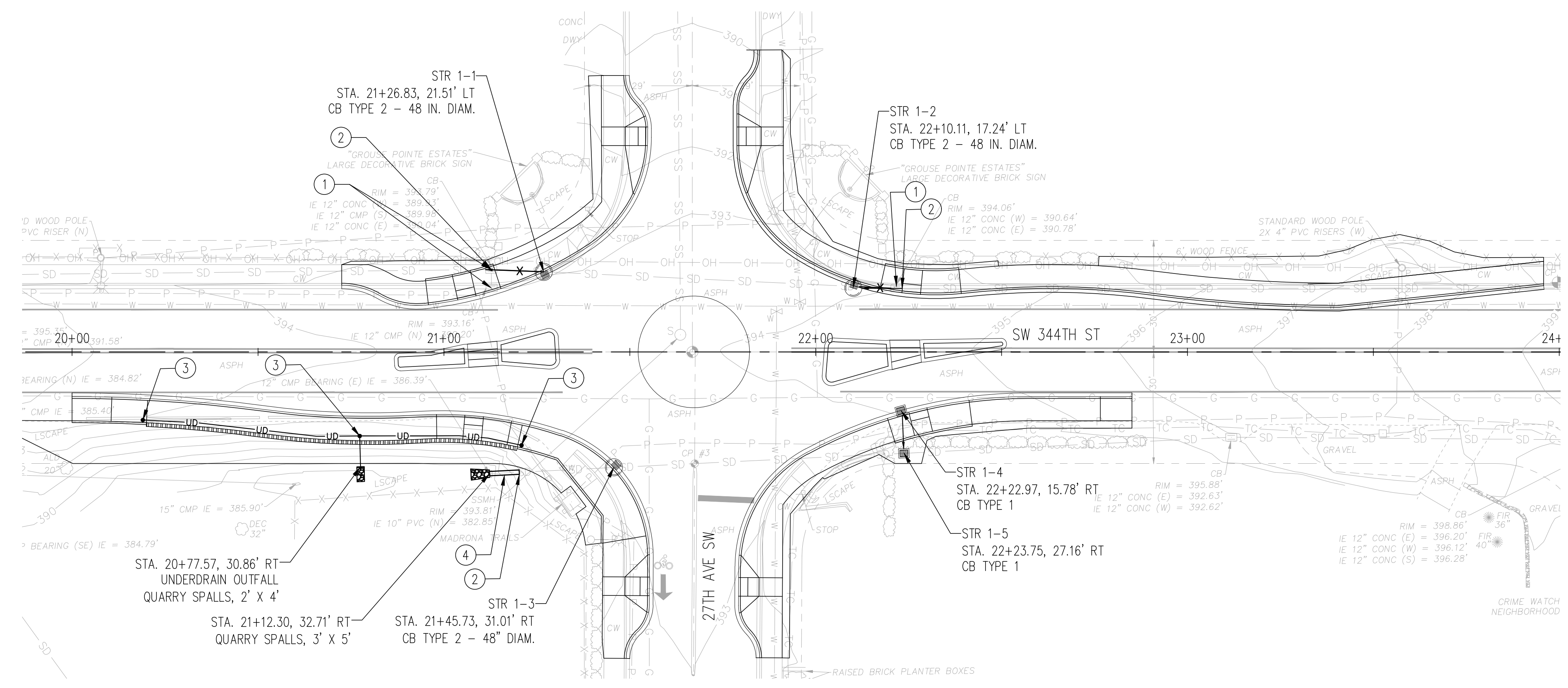
CITY PROJECT #: 36232
SHEET: WP01
9 OF 17

BID SET

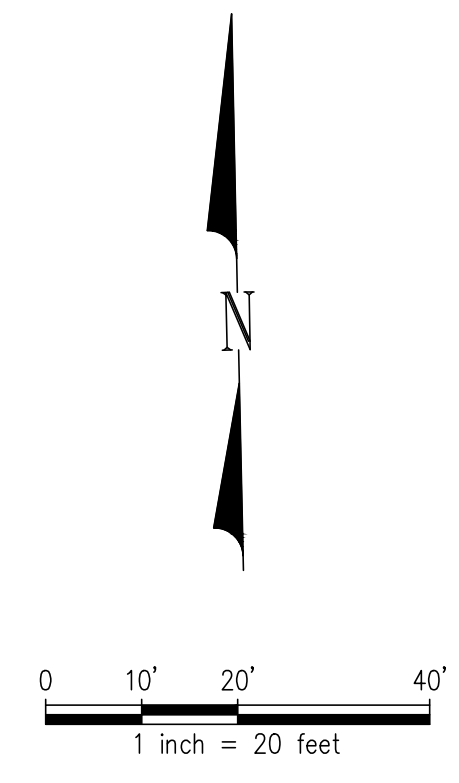
LEGEND	
	STORM DRAIN
	CATCH BASIN TYPE 1
	CATCH BASIN TYPE 2
	REMOVAL OF EXISTING STORM SEWER PIPE
	UNDERDRAIN PIPE 6 IN. DIAM.
	QUARRY SPALLS, 1 FT DEPTH

- GENERAL NOTES**
1. PLANING OF PAVEMENT EDGE AND SAWCUT OFFSET SHALL BE 2.0' MINIMUM FROM CURB AND GUTTER
 2. SEE SHEET C001 FOR HORIZONTAL AND VERTICAL GEOMETRY
 3. SEE SHEET WP01 FOR UNDERDRAIN PROFILE

- CONSTRUCTION NOTES**
1. REMOVE DRAINAGE STRUCTURE
 2. CONNECTION TO EXISTING DRAINAGE PIPE
 3. 6" UNDERDRAIN CLEANOUT PER COFW STD DWG 4-17
 4. 12" CONCRETE PIPE MITERED END SECTIONS STD PLAN B-70.20-01



BID SET

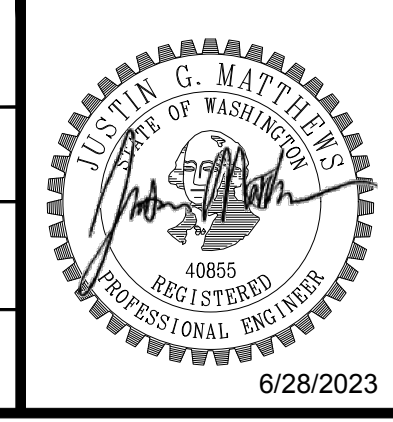


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DRAFTED: MRV
DESIGNED: BSP
REVIEWED: NDA
APPROVED: JGM



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27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT

STORM DRAINAGE PLAN AND PROFILES

CITY PROJECT #:
SHEET
SD01
10 OF 17

*** PLAN CENTER COPY *** Official bid documents, plan holder's list, and addenda (if applicable) are available on BXWA.com

LEGEND:

- LUMINAIRE POLE
- EXISTING LUMINAIRE POLE
- TYPE 1 JUNCTION BOX
- TYPE 2 JUNCTION BOX
- STREET LIGHT SERVICE CABINET

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH 2019 CITY OF FEDERAL WAY STANDARD PLANS & SPECIFICATIONS AND THE LATEST AMENDMENTS, APWA STANDARDS, AND NATIONAL ELECTRIC CODE.
2. UTILITY LOCATION PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
3. ALL NEW CONDUIT SHALL BE RIGID PVC SCHEDULE 40 (80 UNDER VEHICLE SURFACES) AND SHALL BE PLACED IN THE SAME TRENCH WITH OTHER CONDUIT WHEN POSSIBLE.
4. ALL TYPE 1 AND 2 JUNCTION BOXES SHALL CONFORM TO WSDOT STANDARD PLAN J-40.10-04.
5. JUNCTION BOXES SHALL BE KEPT OUT OF THE PEDESTRIAN ACCESS ROUTE WHENEVER POSSIBLE.
6. COORDINATE WITH UTILITY TO INSTALL NEW SERVICE, CONTRACTOR IS RESPONSIBLE FOR FEEDER CABLE AND CONDUIT CONNECTION.

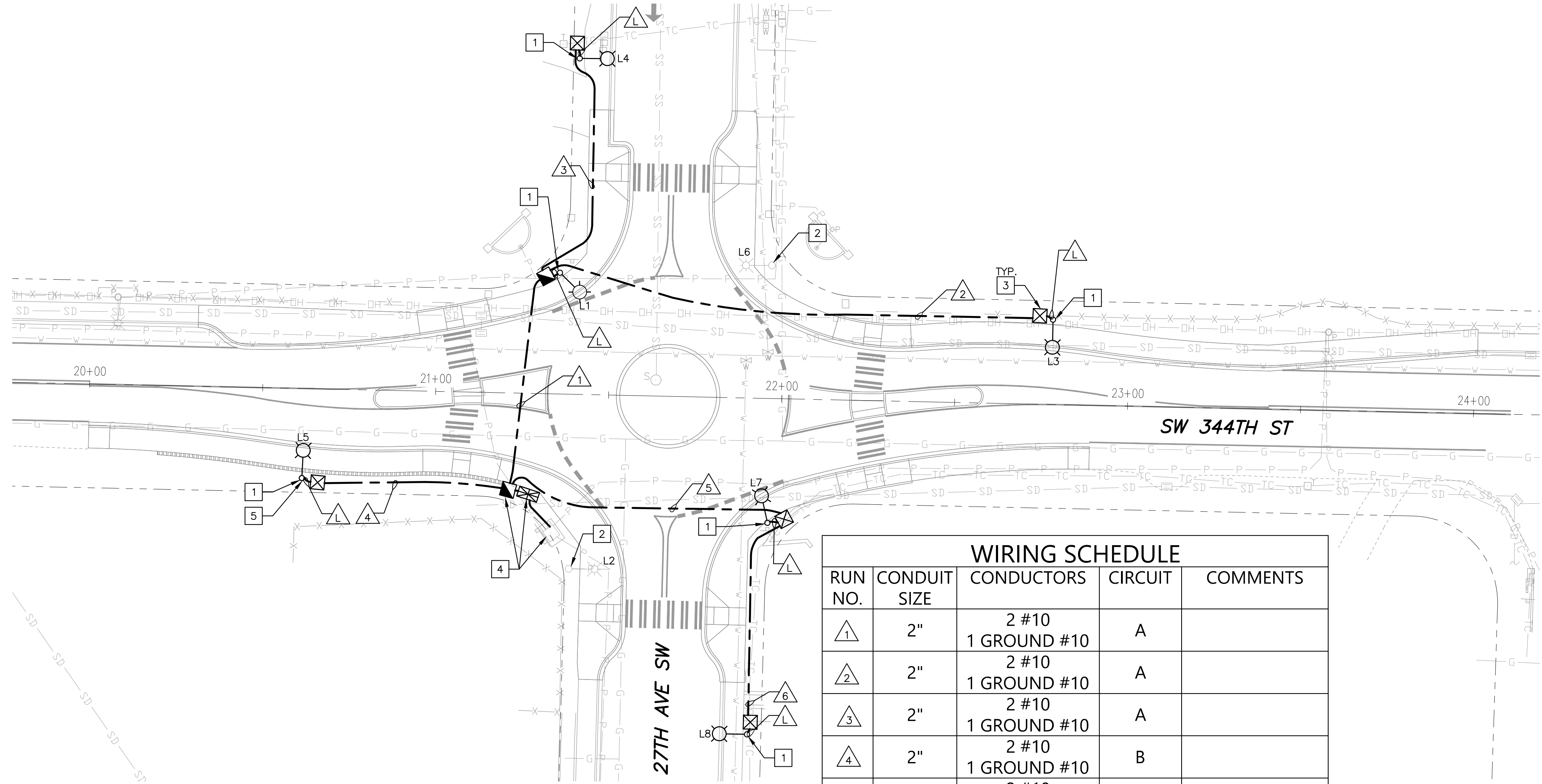
PROJECT NOTES (THIS SHEET ONLY):

1. CONSTRUCT POLE FOUNDATION PER CITY OF FEDERAL WAY STANDARD PLANS 3-39 AND 3-39A. INSTALL (1) 60W CLASS, 120/240V ARCHEON MEDIUM HEAD TYPE, 4,000K COLOR TEMPERATURE LED LUMINAIRE OR APPROVED EQUAL ON POLE PER LUMINAIRE SCHEDULE.
2. INSTALL (1) 60W CLASS, 120/240V ARCHEON MEDIUM HEAD TYPE, 4,000K COLOR TEMPERATURE LED LUMINAIRE OR APPROVED EQUAL ON EXISTING POLE.
3. INSTALL JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-04 AND CITY OF FEDERAL WAY STANDARD PLANS 3-39A AND 3-40.
4. INSTALL NEW SERVICE CABINET PER CITY OF FEDERAL WAY STANDARD PLANS 3-45, 3-41, AND BREAKER SCHEDULE. CONNECT FEEDER TO EXISTING POWER VAULT.
5. CONSTRUCT FOUNDATION ON GRADE BENCH AT BASE OF THE RETAINING WALL.

UTILITY NOTE:

UTILITIES SHOWN ARE FROM SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THROUGH UTILITY LOCATE SERVICES, UTILITY AS-BUILT DRAWINGS, RECORD DRAWINGS AND POTHOLING THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES. ALL MEANS AND METHODS TO RESEARCH AND VERIFY EXISTING UTILITY LOCATIONS SHALL BE INCIDENTAL TO THE ASSOCIATED WORK.

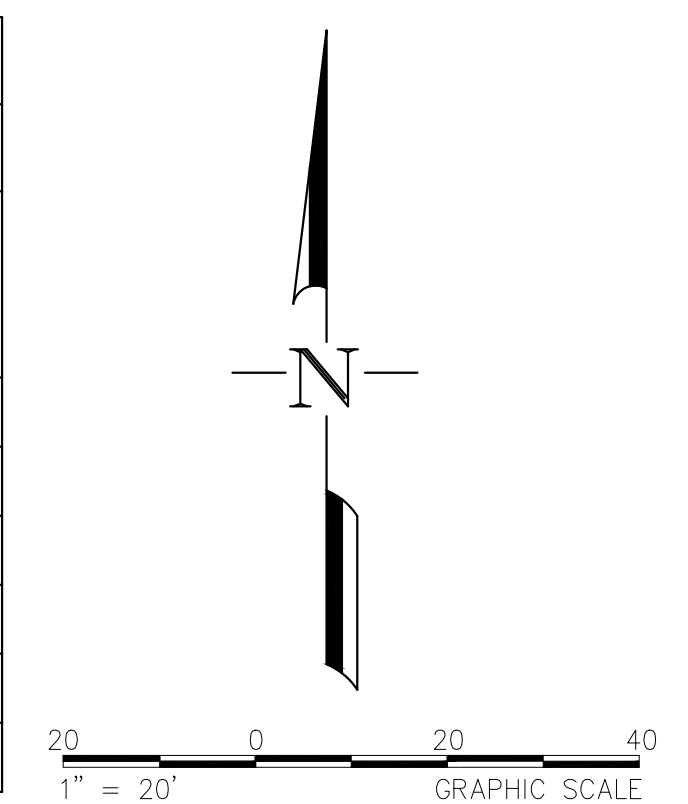
IDENTIFY OVERHEAD UTILITIES IN CLOSE PROXIMITY TO PROPOSED LUMINAIRE POLES.



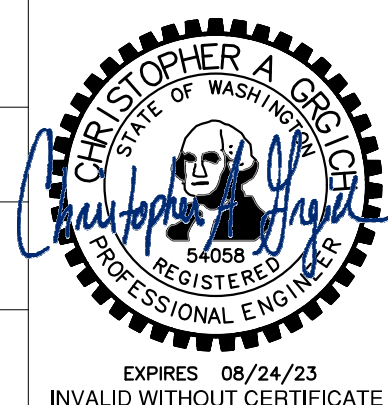
WIRING SCHEDULE				
RUN NO.	CONDUIT SIZE	CONDUCTORS	CIRCUIT	COMMENTS
1	2"	2 #10 1 GROUND #10	A	
2	2"	2 #10 1 GROUND #10	A	
3	2"	2 #10 1 GROUND #10	A	
4	2"	2 #10 1 GROUND #10	B	
5	2"	2 #10 1 GROUND #10	C	
6	2"	2 #10 1 GROUND #10	C	
L	2"	2 #10 1 GROUND #10		

LUMINAIRE SCHEDULE								
POLE NUMBER	LUMINAIRE NUMBER	CIRCUIT	STATION	OFFSET	MAST ARM	H1	BASE TYPE	COMMENTS
	L1	A	21+35.49	34.56' LT	10'	35'	FIXED	
	L2	N/A	21+39.51	50.48' RT	EXISTING	EXISTING	EXISTING	INSTALL NEW LUMINAIRE ON EXISTING POLE
	L3	A	22+78.01	23.49' LT	10'	35'	FIXED	
	L4	A	21+40.11	97.15' LT	10'	30'	FIXED	
	L5	B	20+62.04	24.64' RT	10'	40'	FIXED	POLE FOUNDATION BELOW ROAD ELEVATION
	L6	N/A	21+96.41	38.50' LT	EXISTING	EXISTING	EXISTING	INSTALL NEW LUMINAIRE ON EXISTING POLE
	L7	C	21+96.67	36.05' RT	10'	35'	FIXED	
	L8	C	21+91.34	97.30' RT	10'	30'	FIXED	

SERVICE CABINET #4524 BREAKER SCHEDULE						
CIRCUIT	DESCRIPTION	BREAKER RATING		CONTACTOR RATING	VOLTAGE	LOAD (KVA)
		POLES	AMPS			
---	MAIN	2P	100 AMP		---	---
A	ILLUMINATION	2P	15 AMP	30 AMP	240	0.749
B	ILLUMINATION	2P	15 AMP	30 AMP	240	0.084
C	ILLUMINATION	2P	15 AMP	30 AMP	240	0.166
BUSSWORK SHALL BE RATED AT 250 AMP MINIMUM				PEAK		0.998
				CONTINUOUS		0.998



DRAFTED: NH
DESIGNED: NH
REVIEWED: KC
APPROVED:



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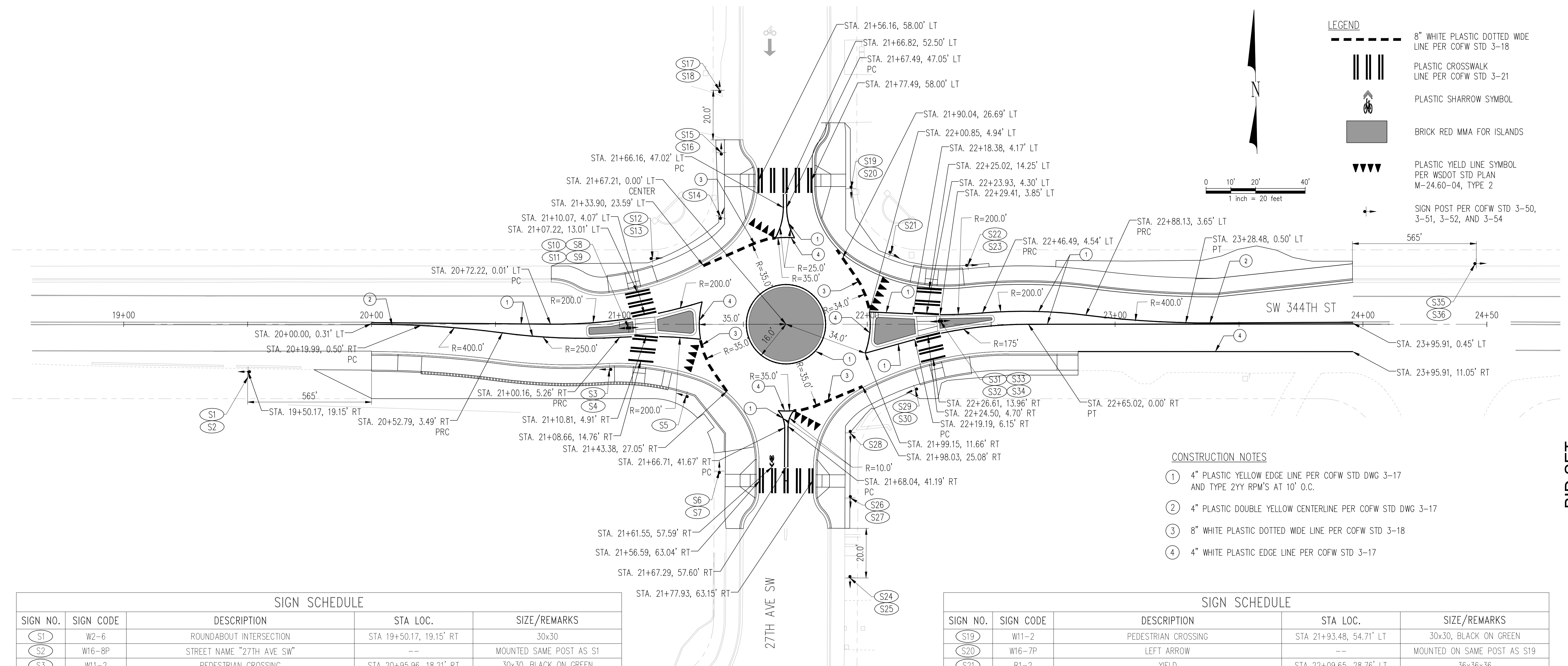
NO.	DATE	REVISION

27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT

ILLUMINATION PLAN

CITY PROJECT #: 36232
SHEET IL01
11 OF 17

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LEGEND

	8" WHITE PLASTIC DOTTED WIDE LINE PER COFW STD 3-18
	PLASTIC CROSSWALK LINE PER COFW STD 3-21
	PLASTIC SHARROW SYMBOL
	BRICK RED MMA FOR ISLANDS
	PLASTIC YIELD LINE SYMBOL PER WSDOT STD PLAN M-24.60-04, TYPE 2
	SIGN POST PER COFW STD 3-50, 3-51, 3-52, AND 3-54

- CONSTRUCTION NOTES**
- ① 4" PLASTIC YELLOW EDGE LINE PER COFW STD DWG 3-17 AND TYPE 2YY RPM'S AT 10' O.C.
 - ② 4" PLASTIC DOUBLE YELLOW CENTERLINE PER COFW STD DWG 3-17
 - ③ 8" WHITE PLASTIC DOTTED WIDE LINE PER COFW STD 3-18
 - ④ 4" WHITE PLASTIC EDGE LINE PER COFW STD 3-17

SIGN SCHEDULE

SIGN NO.	SIGN CODE	DESCRIPTION	STA LOC.	SIZE/REMARKS
S1	W2-6	ROUNDBOUT INTERSECTION	STA 19+50.17, 19.15' RT	30x30
S2	W16-8P	STREET NAME "27TH AVE SW"	--	MOUNTED SAME POST AS S1
S3	W11-2	PEDESTRIAN CROSSING	STA 20+95.96, 18.21' RT	30x30, BLACK ON GREEN
S4	W16-7P	LEFT ARROW	--	MOUNTED ON SAME POST AS S3
S5	R1-2	YIELD	STA 21+26.81, 29.00' RT	36x36x36
S6	W11-2	PEDESTRIAN CROSSING	STA 21+40.32, 59.22' RT	30x30, BLACK ON GREEN
S7	W16-7P	LEFT ARROW	--	MOUNTED ON SAME POST AS S3
S8	W11-2	PEDESTRIAN CROSSING	STA 21+03.70, 1.50' RT	30x30, BLACK ON GREEN
S9	W16-7P	LEFT ARROW	--	MOUNTED ON SAME POST AS S8
S10	W11-2	PEDESTRIAN CROSSING	--	MOUNTED ON SAME POST AS S8
S11	W16-7P	RIGHT ARROW	--	MOUNTED ON SAME POST AS S8
S12	W11-2	PEDESTRIAN CROSSING	STA 21+13.34, 26.51' LT	30x30, BLACK ON GREEN
S13	W16-7P	LEFT ARROW	--	MOUNTED ON SAME POST AS S12
S14	R1-2	YIELD	STA 21+40.93, 43.20' LT	36x36x36
S15	W11-2	PEDESTRIAN CROSSING	STA 21+41.10, 69.16' LT	30x30, BLACK ON GREEN
S16	W16-7P	LEFT ARROW	--	MOUNTED ON SAME POST AS S15
S17	W2-6	ROUNDBOUT INTERSECTION	STA 21+40.44, 94.29' LT	30x30
S18	W16-8P	STREET NAME "SW 344TH ST"	--	MOUNTED SAME POST AS S17

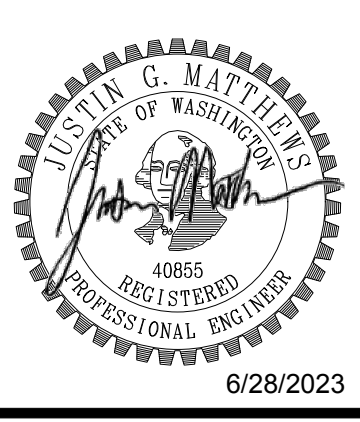
SIGN SCHEDULE

SIGN NO.	SIGN CODE	DESCRIPTION	STA LOC.	SIZE/REMARKS
S19	W11-2	PEDESTRIAN CROSSING	STA 21+93.48, 54.71' LT	30x30, BLACK ON GREEN
S20	W16-7P	LEFT ARROW	--	MOUNTED ON SAME POST AS S19
S21	R1-2	YIELD	STA 22+09.65, 28.76' LT	36x36x36
S22	W11-2	PEDESTRIAN CROSSING	STA 22+40.68, 23.77' LT	30x30, BLACK ON GREEN
S23	W16-7P	LEFT ARROW	--	MOUNTED ON SAME POST AS S22
S24	W2-6	ROUNDBOUT INTERSECTION	STA 21+93.03, 102.28' RT	30x30
S25	W16-8P	STREET NAME "SW 344TH ST"	--	MOUNTED SAME POST AS S25
S26	W11-2	PEDESTRIAN CROSSING	STA 21+93.20, 70.06' RT	30x30, BLACK ON GREEN
S27	W16-7P	LEFT ARROW	--	MOUNTED ON SAME POST AS S26
S28	R1-2	YIELD	STA 21+93.15, 43.77' RT	36x36x36
S29	W11-2	PEDESTRIAN CROSSING	STA 22+19.40, 26.32' RT	30x30, BLACK ON GREEN
S30	W16-7P	LEFT ARROW	--	MOUNTED ON SAME POST AS S28
S31	W11-2	PEDESTRIAN CROSSING	STA 22+29.47, 1.24' LT	30x30, BLACK ON GREEN
S32	W16-7P	LEFT ARROW	--	MOUNTED ON SAME POST AS S31
S33	W11-2	PEDESTRIAN CROSSING	--	MOUNTED ON SAME POST AS S31
S34	W16-7P	RIGHT ARROW	--	MOUNTED ON SAME POST AS S31
S35	W2-6	ROUNDBOUT INTERSECTION	STA 24+45.72, 24.46' LT	30x30
S36	W16-8P	STREET NAME "27TH AVE SW"	--	MOUNTED SAME POST AS S35

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DRAFTED: MRV
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REVIEWED: NDA
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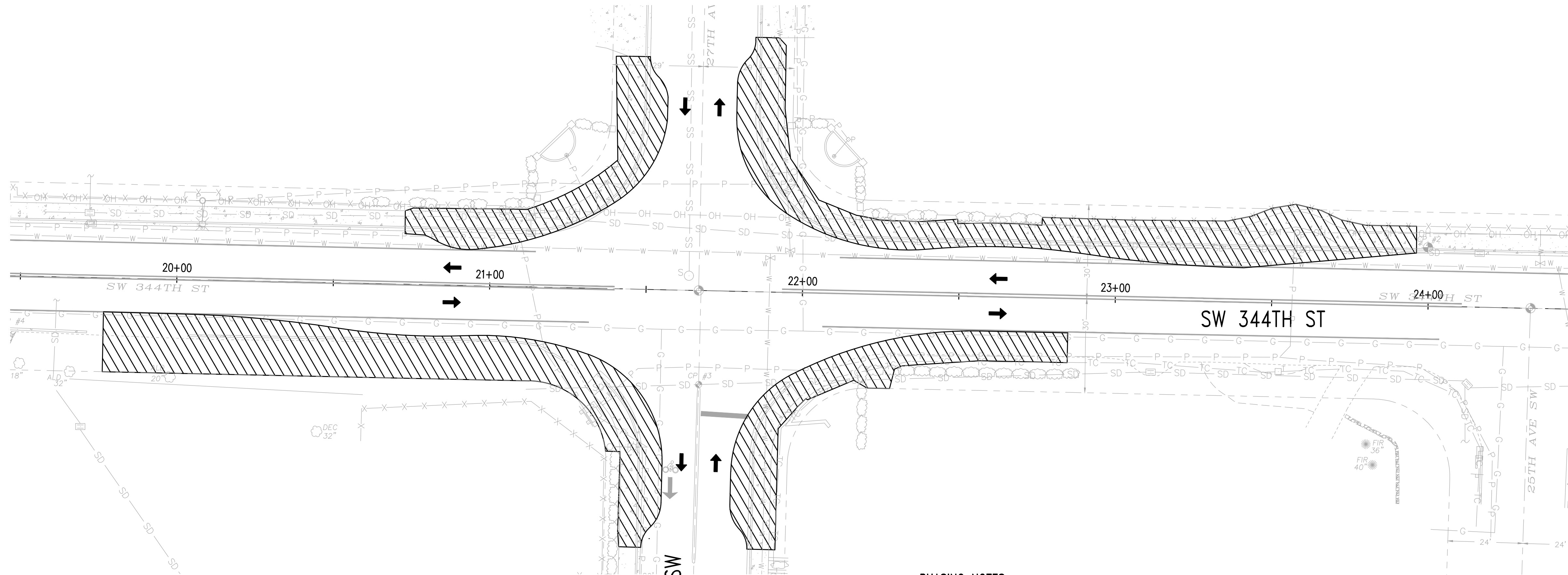
27TH AVE SW AT SW 344TH ST COMPACT ROUNDBOUT

CHANNELIZATION & SIGNAGE PLAN

CITY PROJECT #: 36232
SHEET: CH01
12 OF 17

BID SET

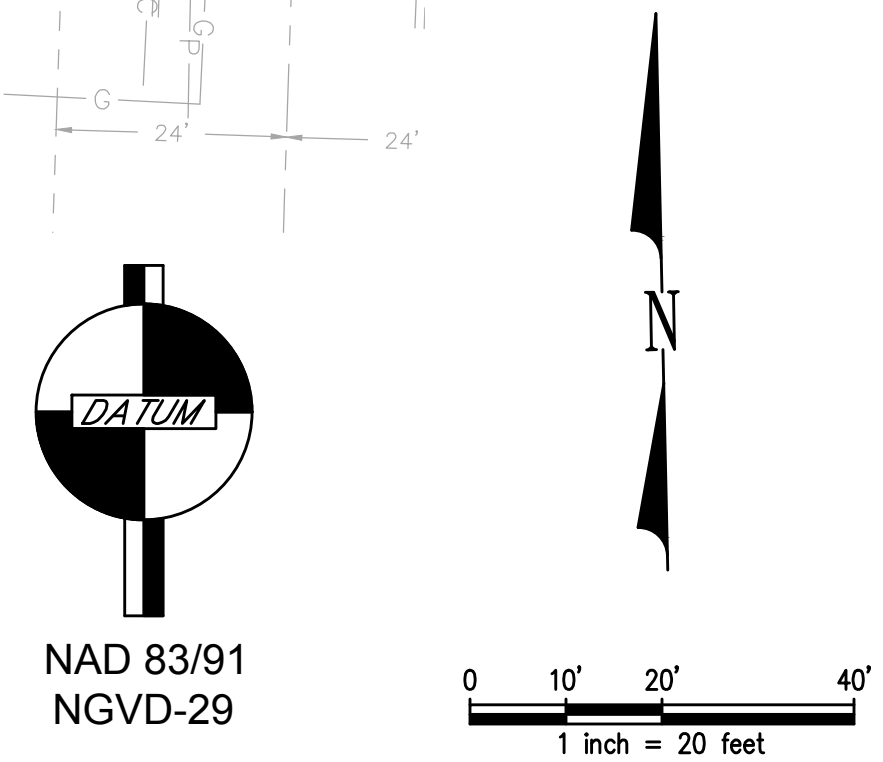
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LEGEND
 WORK ZONE
 DIRECTION OF TRAVEL

- GENERAL NOTES**
1. CONTRACTOR SHALL ONLY CLOSE ONE INTERSECTION LEG AT ONE TIME.
 2. TRAFFIC MAY BE REDUCED TO ONE WAY TRAFFIC WITH APPROVED TRAFFIC CONTROL PLAN.
 3. CONTRACTOR SHALL NOT IMPLEMENT TRAFFIC CONTROL OPERATIONS WITHOUT AN APPROVED TRAFFIC CONTROL PLAN.

PHASING NOTES
 PHASING PLANS ADDRESS KEY CONSTRUCTION ELEMENTS ONLY AND SHOW ONE POTENTIAL PHASING SEQUENCE. ALL TRAFFIC CONTROL CLOSURES AND WORK ELEMENTS ARE NOT SHOWN ON THIS PLAN



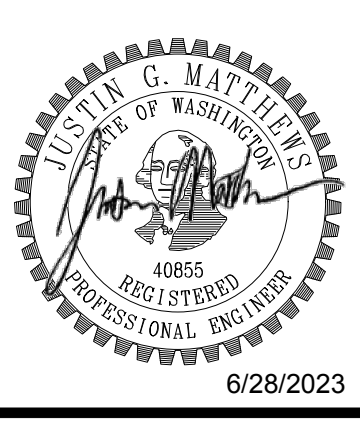
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 NGVD-29

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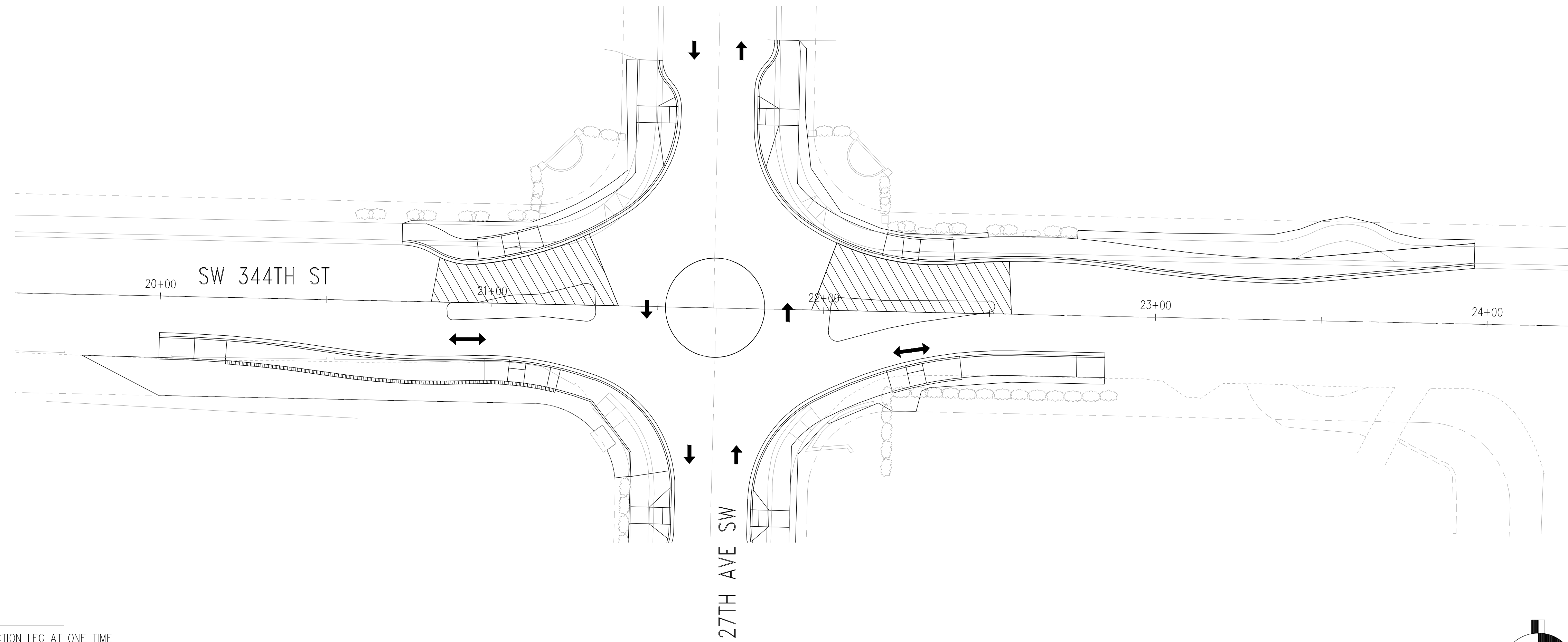


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27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT

PHASING PLAN 1

CITY PROJECT #: 36232
 SHEET: PH01
 13 OF 17



LEGEND

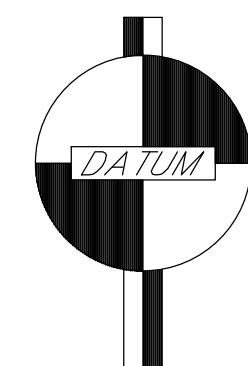
-  WORK ZONE
-  DIRECTION OF TRAVEL
-  ALTERNATING 1-LANE TRAFFIC

GENERAL NOTES

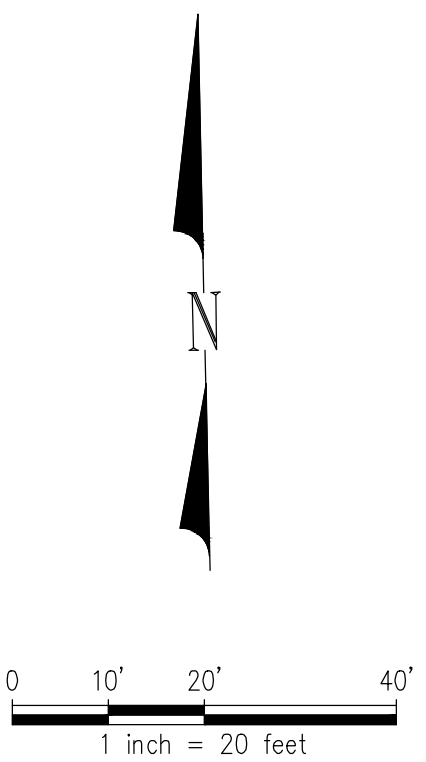
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3. CONTRACTOR SHALL NOT IMPLEMENT TRAFFIC CONTROL OPERATIONS WITHOUT AN APPROVED TRAFFIC CONTROL PLAN

PHASING NOTES

PHASING PLANS ADDRESS KEY CONSTRUCTION ELEMENTS ONLY AND SHOW ONE POTENTIAL PHASING SEQUENCE. ALL TRAFFIC CONTROL CLOSURES AND WORK ELEMENTS ARE NOT SHOWN ON THIS PLAN



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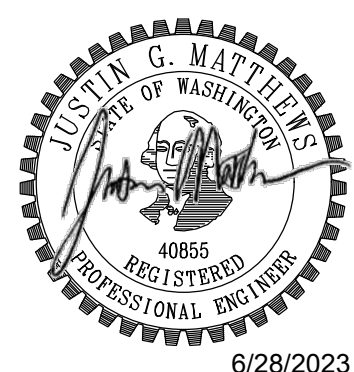


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DESIGNED: CJO
REVIEWED: NDA
APPROVED: JGM

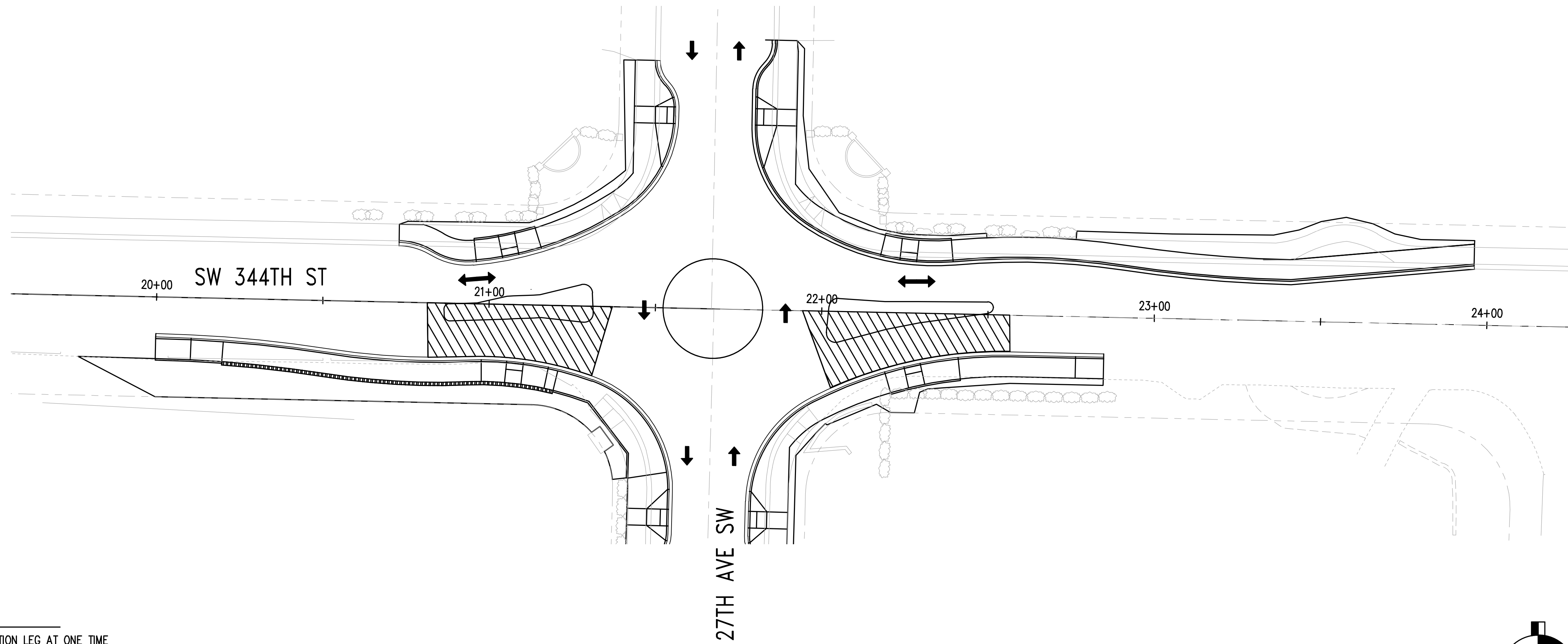


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27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT

PHASING PLAN 2

CITY PROJECT #: 36232
SHEET PH02
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LEGEND

-  WORK ZONE
-  DIRECTION OF TRAVEL
-  ALTERNATING 1-LANE TRAFFIC

GENERAL NOTES

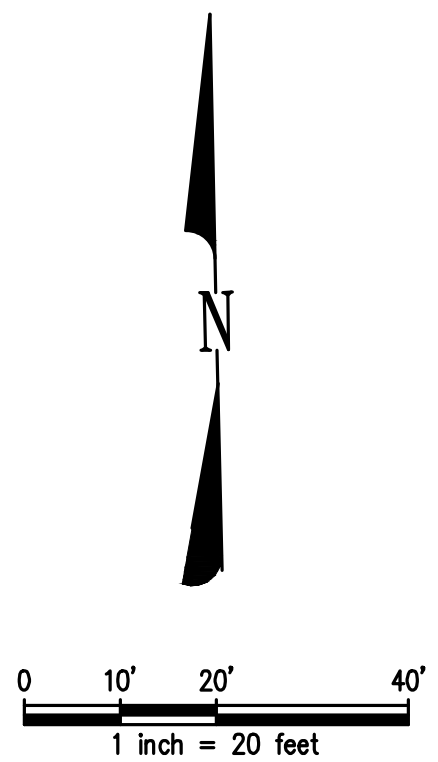
1. CONTRACTOR SHALL ONLY CLOSE ONE INTERSECTION LEG AT ONE TIME
2. TRAFFIC MAY BE REDUCED TO ONE WAY TRAFFIC WITH APPROVED TRAFFIC CONTROL PLAN
3. CONTRACTOR SHALL NOT IMPLEMENT TRAFFIC CONTROL OPERATIONS WITHOUT AN APPROVED TRAFFIC CONTROL PLAN

PHASING NOTES

PHASING PLANS ADDRESS KEY CONSTRUCTION ELEMENTS ONLY AND SHOW ONE POTENTIAL PHASING SEQUENCE. ALL TRAFFIC CONTROL CLOSURES AND WORK ELEMENTS ARE NOT SHOWN ON THIS PLAN



NAD 83/91
NGVD-29

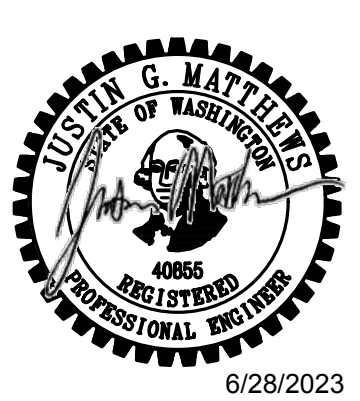


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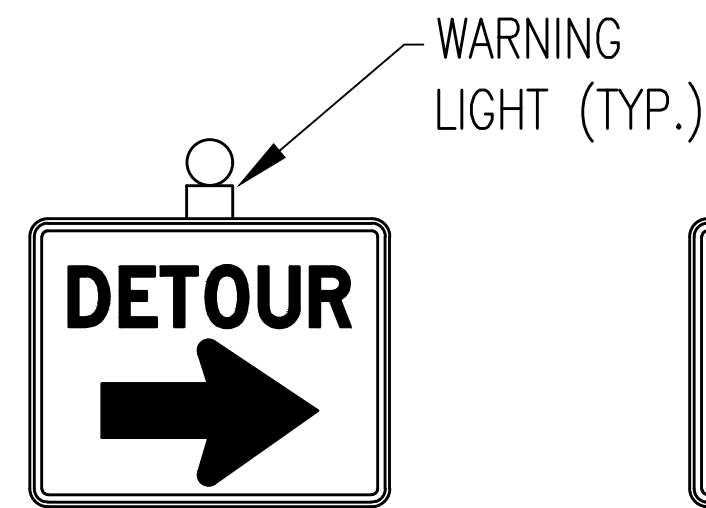


DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT

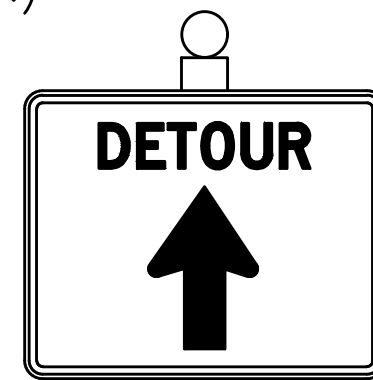
PHASING PLAN 3

CITY PROJECT #: 36232
SHEET PH03
15 OF 17



M4-9 (R)
BLACK ON ORANGE
30" X 24"

(A)



M4-9 (UP)
BLACK ON ORANGE
30" X 24"

(B)



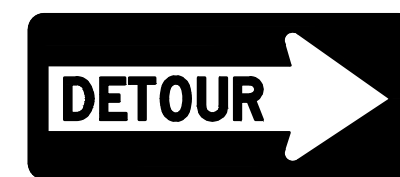
M4-9 (L)
BLACK ON ORANGE
30" X 24"

(C)



M4-10L
BLACK ON WHITE
48" X 18"
INSTALLED ON TYPE III BARRICADE

(D)

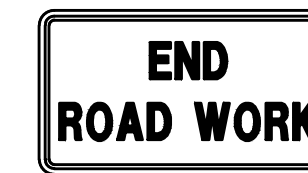


(E)



R11-3A
BLACK ON WHITE
60" X 30"

(F)



G20-2
BLACK ON WHITE
36" X 18"

(G)



M4-8A
BLACK ON WHITE
24" X 18"

(H)



W20-1
BLACK ON ORANGE
48" X 48"

(I)



W20-2
BLACK ON ORANGE
48" X 48"

(J)



W20-3
BLACK ON ORANGE
48" X 48"

(K)



W21-5
BLACK ON ORANGE
48" X 48"

(L)



W20-5R
BLACK ON ORANGE
48" X 48"

(N)

LEGEND

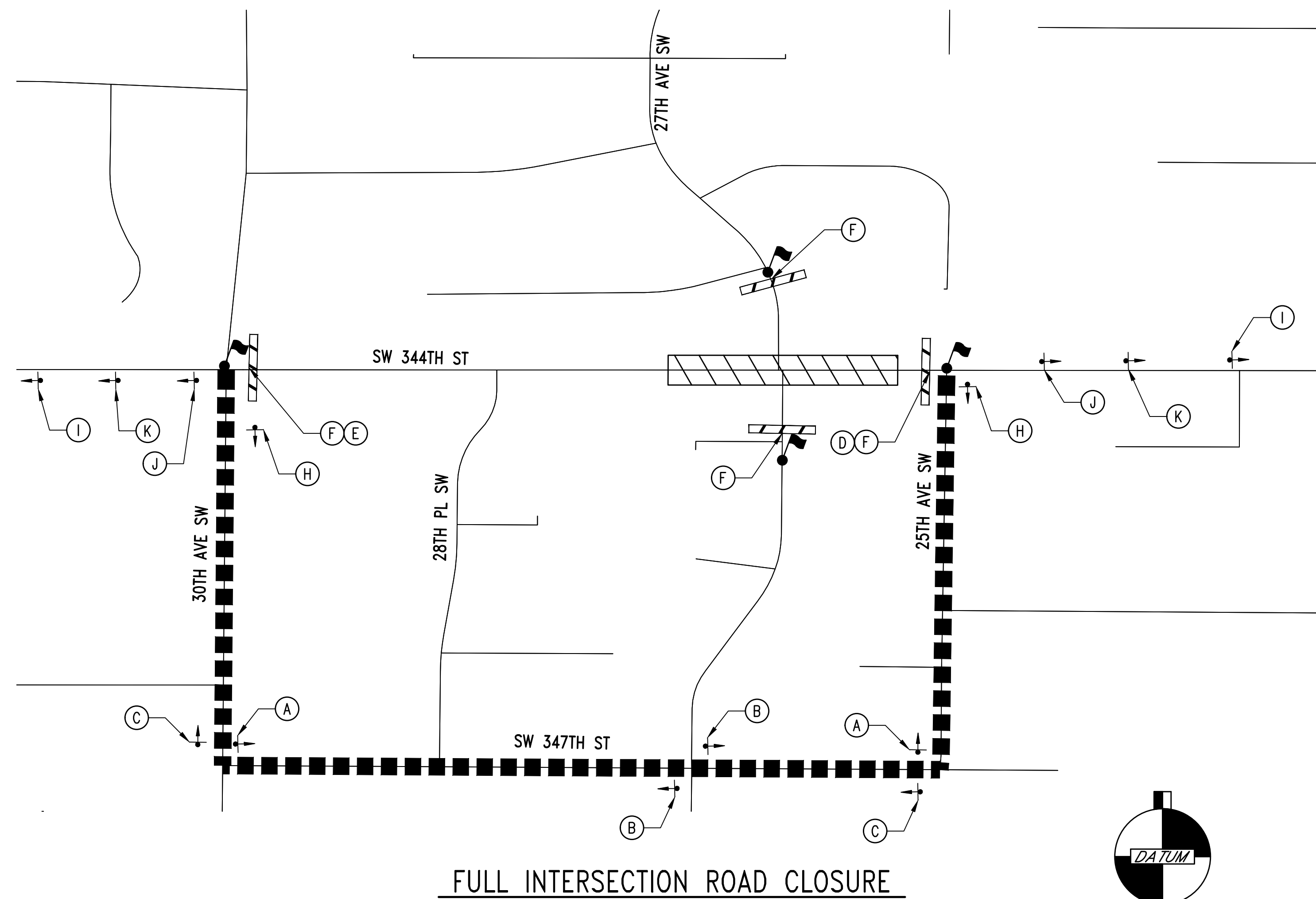
- TYPE 3 BARRICADE WITH WARNING LIGHTS
- DETOUR ROUTE
- WORK ZONE
- TEMPORARY SIGN
- SIGN TYPE, SEE DETAIL
- TRAFFIC DRUM/CHANNELIZING DEVICE
- DIRECTION OF TRAVEL

GENERAL NOTES

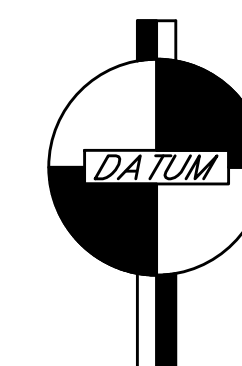
1. ALL SIGNS BLACK ON ORANGE UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL NOT CLOSE INTERSECTION WITHOUT AN APPROVED TRAFFIC CONTROL PLAN.
3. FULL CLOSURE AND DETOUR ONLY ALLOWED ON PAVING DAYS.

CHANNELIZATION DEVICE SPACING (FEET)

MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40



FULL INTERSECTION ROAD CLOSURE
NTS



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0 10' 20' 40'
1 inch = 20 feet

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27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT

DETOUR PLAN

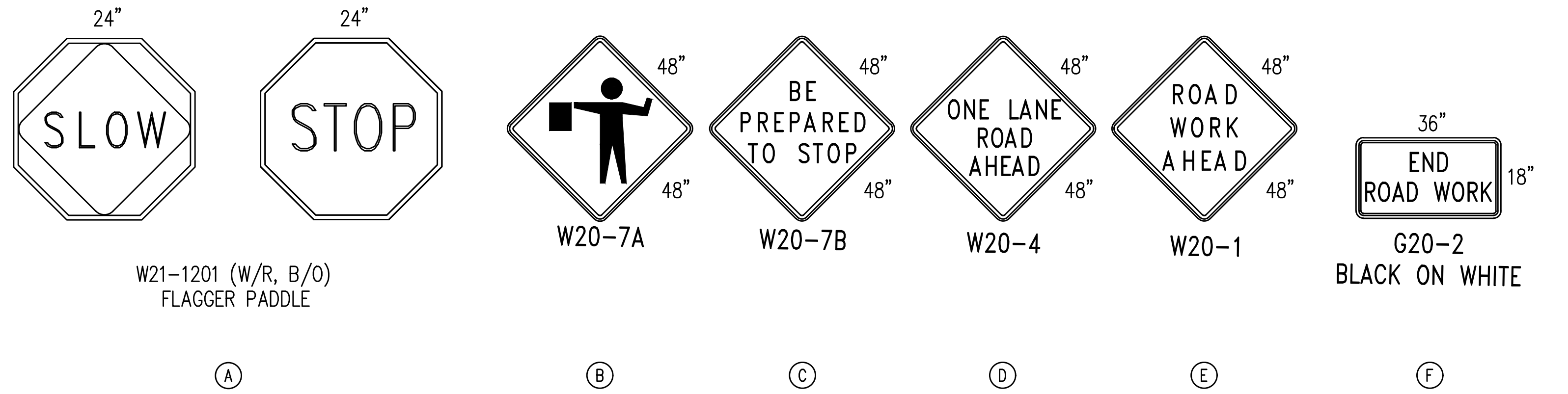
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SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' +/-
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' +/- (2)
URBAN STREETS	25 MPH OR LESS	100' +/- (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.

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

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



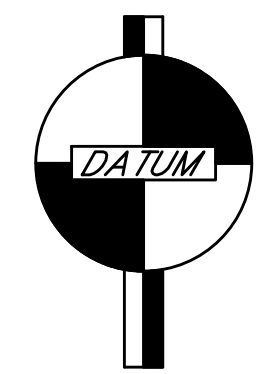
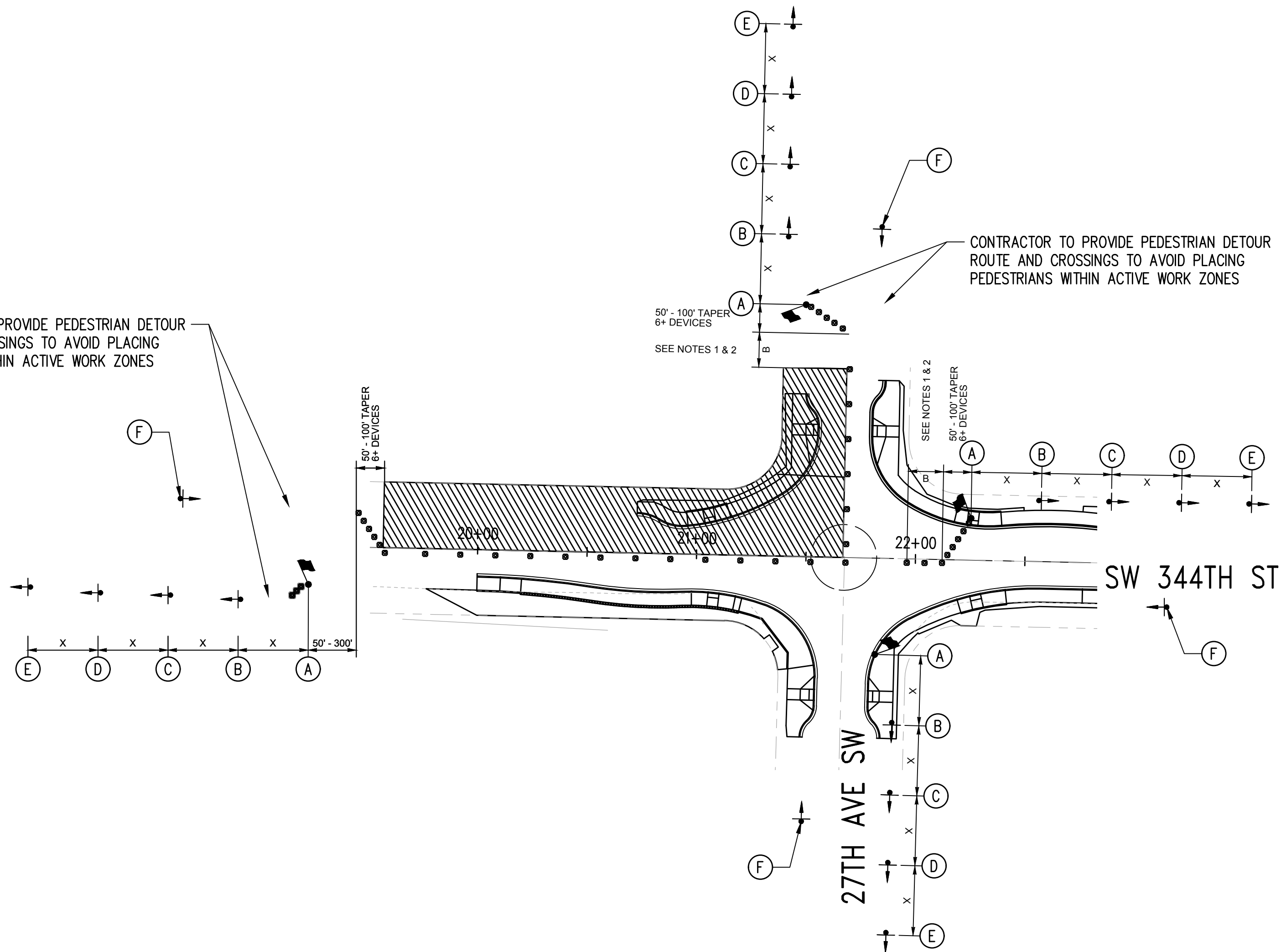
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

- LEGEND**
- WORK ZONE
 - TEMPORARY SIGN
 - SIGN TYPE, SEE DETAIL
 - TRAFFIC DRUM/CHANNELIZING DEVICE
 - FLAGGER STATION

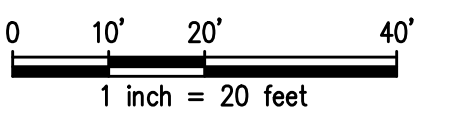
GENERAL NOTES

- CONTRACTOR SHALL NOT CLOSE INTERSECTION WITHOUT AN APPROVED TRAFFIC CONTROL PLAN
- AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
- IF LONGITUDINAL BUFFER SPACE IS REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLE TO A TRANSPORTABLE ATTENUATOR.
- 36" TRAFFIC CONES, 42" TALL CHANNELIZATION DEVICES, OR TRAFFIC SAFETY DRUMS OK.
- BICYCLISTS MAY BE COMBINED WITH ALTERNATING VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO FLAGGERS RELEASING ONCOMING TRAFFIC.
- ACCOMMODATE PEDESTRIANS VIA SHUTTLE THROUGH LANE CLOSURE, USING THE PAVED SHOULDER OPPOSITE THE WORK AREA, OR ANOTHER METHOD THE ENGINEER ACCEPTS.
- SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
 - 1-07.8(1) HIGH-VISIBILITY APPAREL
 - 1-10.3(1)A FLAGGERS AND NIGHTTIME ILLUMINATION
 - 1-10.3(2)A TRAFFIC CONTROL PROCEDURES
 - 9-35.1 24-INCH STOP/SLOW PADDLE SIZE
- FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.

CONTRACTOR TO PROVIDE PEDESTRIAN DETOUR ROUTE AND CROSSINGS TO AVOID PLACING PEDESTRIANS WITHIN ACTIVE WORK ZONES



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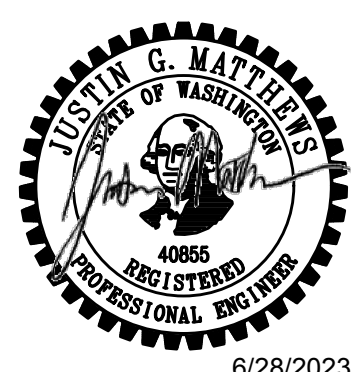
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27TH AVE SW AT SW 344TH ST COMPACT ROUNDABOUT

TRAFFIC CONTROL PLAN
ONE INTERSECTION LEG CLOSURE

CITY PROJECT #:

36232

SHEET

TCP01

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