

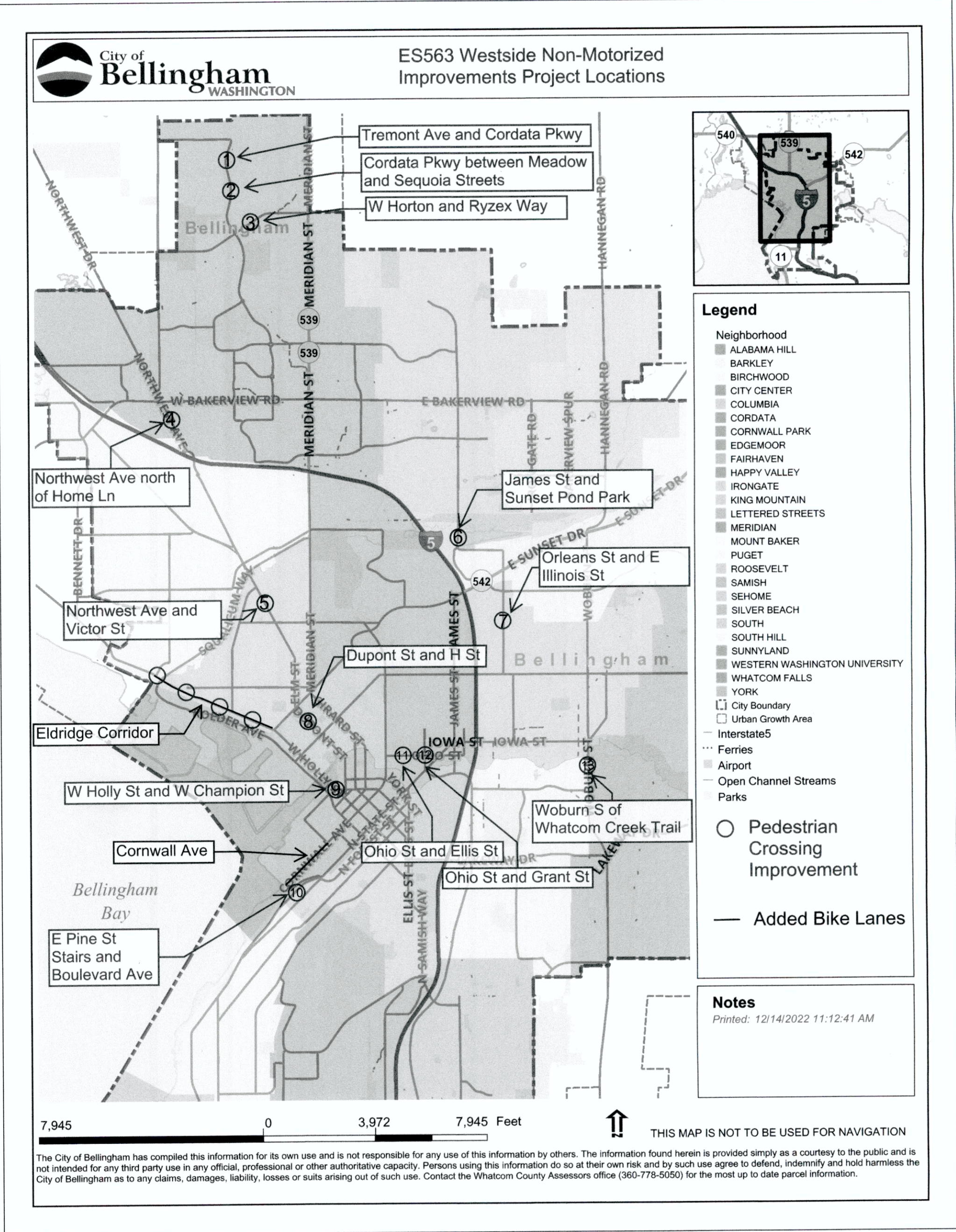
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ES563 West Side Non-Motorized Improvements

CITY OF BELLINGHAM, WASHINGTON

VICINITY MAP



	4		
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	2		
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Date	No	Revision	By

PROJECT ENGINEER	JJB
DESIGNED/DRAWN	ELH
INSPECTOR	DJK

DIRECTOR OF PUBLIC WORKS	E.C.J.
CITY ENGINEER	C.M.A.S.
OPERATIONS ENGINEER	M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= NA

DATUM
NAD 83/98
NAVD 88

Job. No.	ES-0563
Date	02/2023
Field Bk.	FB 1068-2

WEST SIDE NON-MOTORIZED IMPROVEMENTS
SHEET INDEX AND VICINITY MAP

SHEET	OF
1	45

GENERAL NOTES

- 1) ALL WORK SHALL CONFORM TO THE LATEST EDITION OF "STANDARD SPECIFICATIONS FOR ROAD BRIDGE AND MUNICIPAL CONSTRUCTION" CURRENT EDITION (WSDOT) AND THE "CITY OF BELLINGHAM DEVELOPMENT GUIDELINES AND IMPROVEMENT STANDARDS" UNLESS INDICATED OTHERWISE BY THE CONTRACT DOCUMENTS. IN CASE OF A CONFLICT BETWEEN THE REGULATORY SPECIFICATIONS OR STANDARDS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
ALL REFERENCES TO "SPECIFICATION SECTIONS" REFER TO THE "STANDARD SPECIFICATIONS FOR ROAD BRIDGE AND MUNICIPAL CONSTRUCTION" UNLESS OTHERWISE NOTED.
- 2) THE BEDDING FOR PVC PIPE SHALL BE PEA GRAVEL, ACCORDING TO CITY OF BELLINGHAM STANDARD PLAN No. SS-750
ALL TRENCH BACKFILL UNDER EXISTING OR FUTURE PAVING SHALL BE BANK RUN GRAVEL FOR TRENCH BACKFILL AND SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY (MODIFIED PROCTOR).
- 3) PLUG ALL CULVERTS, SEWERS, AND CONDUITS PRIOR TO ABANDONMENT. AS PER STANDARD SPECIFICATIONS SECTION 7-08.3(4)
- 4) ALL LAWN AND VEGETATED AREAS OUTSIDE THE PROJECT LIMITS DISTURBED BY CONSTRUCTION EQUIPMENT, VEHICLES OR PERSONNEL SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, AT THE CONTRACTORS EXPENSE.
- 5) THIS PROJECT MAY REQUIRE VARIOUS PERMITS AS OUTLINED IN THE PROJECT SPECIFICATION'S GENERAL PROVISIONS. ALL WORK SHALL BE PERFORMED IN A MANNER WHICH ENSURES CONFORMANCE WITH ANY PERMIT REQUIREMENTS.
- 6) THE CONTRACTOR SHALL ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF BELLINGHAM ENGINEERING DIVISION PRIOR TO BEGINNING CONSTRUCTION.
- 7) UNDERGROUND UTILITIES ARE KNOWN TO EXIST IN THE AREA OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY OWNERS FOR LOCATIONS AND TO NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT. THE ONE-CALL NUMBER FOR UNDERGROUND UTILITIES IS: 1-800-424-5555.
- 8) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ADJACENT UTILITIES WHICH MAY INCLUDE, BUT ARE NOT LIMITED TO, WATER, SEWER, STORM SEWER, POWER, TELEPHONE, CABLE TV, GAS, IRRIGATION, AND STREET LIGHTING.
- 9) THE CONTRACTOR SHALL NOTIFY RESIDENTS AND BUSINESSES 48 HOURS IN ADVANCE OF ANY WORK AFFECTING ACCESS OR SERVICE AND SHALL MINIMIZE INTERRUPTIONS TO DRIVEWAYS FOR RESIDENTS AND BUSINESSES ADJACENT TO THE PROJECT.
- 10) PUBLIC RIGHTS-OF-WAY SHALL BE KEPT IN A CLEAN AND SERVICEABLE CONDITION AT ALL TIMES. IN THE EVENT MATERIALS ARE INADVERTENTLY DEPOSITED ON ROADWAYS, THE MATERIAL SHALL BE PROMPTLY REMOVED. MATERIALS ARE TO BE SWEPT AND REMOVED WITH A VACUUM SWEEPER.
- 11) PUBLIC AND PRIVATE DRAINAGE WAYS SHALL BE PROTECTED FROM POLLUTION. NO MATERIAL IS TO BE DISCHARGED TO, OR DEPOSITED IN STORMWATER SYSTEMS THAT MAY RESULT IN VIOLATION OF STATE OR FEDERAL WATER QUALITY STANDARDS.
- 12) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING, MAINTAINING, & REMOVING EROSION CONTROL MEASURES (SILT FENCE, ROCK CHECK DAMS, SILT PONDS, CATCH BASIN FILTERS, ETC...) THROUGHOUT THE DURATION OF THE PROJECT. ALL EROSION CONTROL WORK IS CONSIDERED INCIDENTAL TO THE ITEMS OF WORK IN THE CONTRACT FOR THIS PROJECT.
REFER TO THE 'STORM WATER POLLUTION PREVENTION PLAN' SHEETS AND BID ITEMS NOTED IN THE CONTRACT PORTION OF THE PROJECT SPECIFICATIONS FOR SPECIFIC EROSION CONTROL NOTES.
- 13) CONTRACTOR SHALL TAKE NECESSARY PRECAUTION TO LOCATE AND PROTECT ALL EXISTING SURVEY MONUMENTS DURING CONSTRUCTION. ALL SURVEY MONUMENTS THAT MAY BE DISTURBED BY CONSTRUCTION SHALL BE IDENTIFIED, REFERENCED AND REPLACED IN ACCORDANCE WITH RECOGNIZED SURVEY PRACTICES BY A LICENSED LAND SURVEYOR PROVIDED BY THE CONTRACTOR SHALL COORDINATE WITH PROJECT ENGINEER PRIOR TO DESTRUCTION.

STORM NOTES

- 20) BEDDING AND BACKFILL FOR PVC STORM MAIN PIPE SHALL CONFORM TO CITY OF BELLINGHAM STANDARD PLAN No. DR-538.
- 21) STORM MAIN CLEANOUTS SHALL CONFORM TO CITY OF BELLINGHAM STANDARD NO. SS-720

EROSION CONTROL NOTES

- 60) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL MEASURES. (SILT FENCE, STRAW BALE DAMS, SILT PONDS, ETC., AS DIRECTED BY THE ENGINEER) THROUGHOUT THE DURATION OF THE PROJECT.
- 61) IN THE EVENT MATERIALS ARE INADVERTENTLY DEPOSITED ON ROADWAYS, THE MATERIAL SHALL BE PROMPTLY REMOVED. MATERIALS ARE TO BE SWEPT AND REMOVED PRIOR TO ANY STREET FLUSHING. PUBLIC AND PRIVATE DRAINAGE WAYS SHALL BE PROTECTED FROM POLLUTION. NO MATERIAL IS TO BE DISCHARGED OR DEPOSITED IN STORMWATER SYSTEMS THAT MAY RESULT IN VIOLATION OF STATE OR FEDERAL WATER QUALITY STANDARDS.
- 62) THE CONTRACTOR IS REQUIRED TO PREPARE AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). A COPY OF THE SWPPP SHALL BE ON SITE THROUGHOUT THE DURATION OF CONSTRUCTION.
- 63) STABILIZE SOILS- ALL EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY APPLICATION OF EFFECTIVE BEST MANAGEMENT PRACTICES, THAT PROTECT THE SOIL FROM THE EROSION FORCES OF WATER AND WIND. NO UNWORKED SOILS SHALL REMAIN EXPOSED FOR MORE THAN SEVEN (7) DAYS.
- 64) SAWCUTTING SLURRY AND CUTTINGS SHALL BE VACUUMED DURING CUTTING AND SURFACING OPERATIONS. SLURRY AND CUTTINGS SHALL NOT REMAIN ON PAVEMENT OVERNIGHT.
- 65) INLET PROTECTION MUST BE PROVIDED FOR ALL EXISTING CATCH BASINS DURING CONSTRUCTION. ALL CATCH BASINS WITHIN THE PROJECT LIMITS SHALL BE CLEANED OUT AT THE COMPLETION OF THE PROJECT AND ANY MATERIAL REMOVED SHALL BE PROPERLY DISPOSED OF.
- 66) DURING ANY DITCH, CREEK & DRAINAGE WORK WATER SHALL BE DIVERTED AROUND THE PROJECT WITH A PUMP OR OTHER ADEQUATE METHOD APPROVED BY THE ENGINEER.
- 67) ANY MISCELLANEOUS DRAINAGE FOUND WILL BE REQUIRED TO BE REMOVED OR CONNECTED TO THE NEW DRAINAGE SYSTEM WITH THE DIRECTION OF THE ENGINEER. DISTURBED SOILS ARE TO BE MULCHED.

SURVEY MONUMENT AND BENCHMARK NOTE:

CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ALL EXISTING SURVEY MONUMENTS DURING CONSTRUCTION. ALL SURVEY MONUMENTS THAT MAY BE DISTURBED BY CONSTRUCTION SHALL BE IDENTIFIED, REFERENCED, AND REPLACED IN ACCORDANCE WITH RECOGNIZED SURVEYING PRACTICES BY A LICENSED LAND SURVEYOR PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER PRIOR TO DESTRUCTION.

LEGEND					
	EXISTING	PROPOSED		EXISTING	PROPOSED
RIGHT OF WAY LINE			UNDERGROUND POWER		
PROPERTY LINE			UTILITY POLE		
CENTER LINE			SIGN		
WATER MAIN			SIDEWALK		
WATER SERVICE			CURB & GUTTER		
WATER VALVE			EDGE OF PAVEMENT		
FIRE HYDRANT			EDGE OF GRAVEL/DIRT		
SANITARY SEWER MAIN			ADA RAMP		
SANITARY SEWER SERVICE			BUILDING LINE		
STORM SEWER MAIN			TREE LINE		
STORM SEWER SERVICE			FENCE LINE		
SEWER MANHOLE			WALL LINE (ROCK)		
STORM MANHOLE			WALL LINE		
CATCH BASIN			SHRUBS		
CULVERT			TREES		
DRAINAGE DITCH			RIP RAP		
CREEK			STREET LIGHT JUNCTION BOX		
GAS MAIN			TRAFFIC JUNCTION BOX		
GAS SERVICE			LUMINAIRE (STREET LIGHT)		
UNDERGROUND TELEPHONE			SIGNAL POLE		
FIBER OPTIC LINE			PEDESTRIAN SIGNAL		
MONUMENT PER COB			RRFB AS NOTED ON PLANS		
FOUND MONUMENT			LANDSCAPING(SOIL, SOD OR MULCH)		
BENCHMARK					
FOUND NAIL/SURVEY CONTROL POINT					



24 May 2023

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Date	No	Revision	By

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR DJK

DIRECTOR OF PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= NA

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0563
Date 02/2023
Field Bk. FB 1068-2

WEST SIDE NON-MOTORIZED IMPROVEMENTS
GENERAL NOTES AND LEGEND

SHEET 2 OF 45

CONTACT PERSON: JESSICA BENNETT , P.E. , PROJECT ENGINEER AT 778-7923

WEST SIDE NON-MOTORIZED IMPROVEMENTS

CITY OF BELLINGHAM PUBLIC WORKS PROJECT #ES563 SURVEY CONTROL WORKSHEET

SURVEYOR'S NOTES:

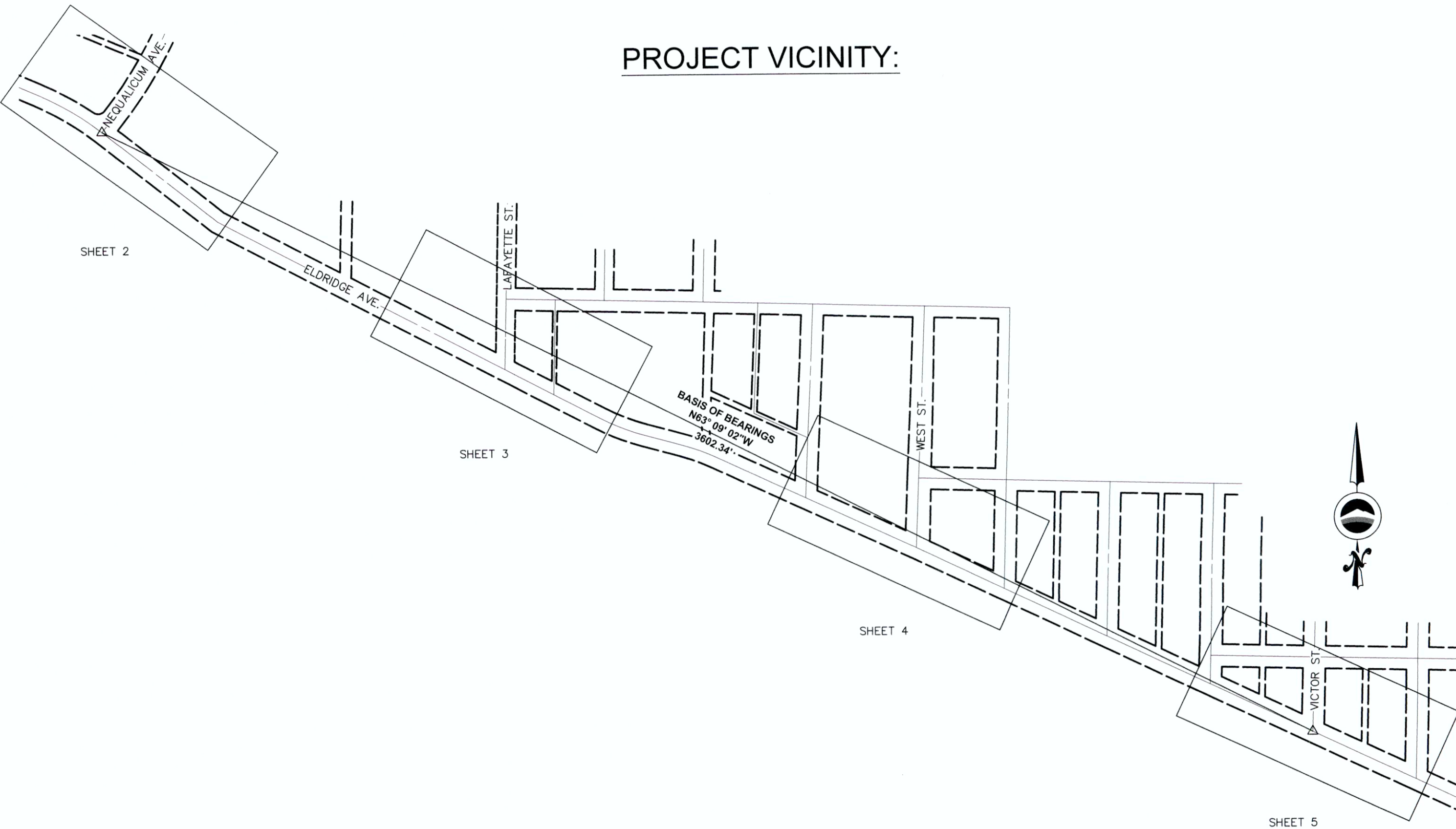
1. **HORIZONTAL DATUM:** RELATED TO WASHINGTON COORDINATE SYSTEM (NAD83/98), NORTH ZONE

LINE HELD: **N63°09'02"W 3602.34'** BETWEEN FOUND BRASS DISKS (COB 706 AND 718) IN THE CENTERLINE OF ELDRIDGE AVE., AS SHOWN.
2. **VERTICAL DATUM:** NAVD88

PROJECT BENCHMARKS:

PT #801 (COB 5848) FND 2" BRASS DISK IN BRIDGE HEADWALL EL=67.42' (HELD)
PT# 805 (COB 3513) FND GIN SPIKE IN POWER POLE EL=68.71'
3. DATE OF SURVEY: **JANUARY 25-27 & 31 AND FEBRUARY 1, 2023**
4. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET FORTH BY WAC 332-130-145: TOPOGRAPHIC ELEMENTS ON MAPS.
5. THE PURPOSE OF THIS SURVEY WAS TO COLLECT TOPOGRAPHIC DATA WITHIN THE RIGHT OF WAY OF THE SCOPED AREA.
6. THIS SURVEY WAS ACCOMPLISHED USING STANDARD FIELD TRAVERSE PROCEDURES WITH A TOTAL STATION. VERTICAL CONTROL WAS ESTABLISHED USING CLOSED LOOP DIFFERENTIAL LEVELING. ALL MONUMENTS SHOWN WERE VISITED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
7. SURFACE CONTOURS DEPICTED WITH 1' (MINOR) AND 5' (MAJOR) INTERVALS WERE GENERATED FROM FIELD OBSERVATIONS USING AUTOCAD CIVIL 3D (VERSION 2019) AND ARE TYPICALLY ACCURATE TO WITHIN APPROXIMATELY 0.5'±.
8. JEPSON AND ASSOCIATES ASSUMES NO LIABILITY FOR ANY SUBSURFACE CONDITIONS OR FEATURES THAT MAY EXIST WHICH WERE UNDETECTABLE OR NOT VIABLE AT THE TIME OF THIS SURVEY AND THEREAFTER.
9. THIS IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS SUCH, SEE A RECORD OF SURVEY OR PLAT MAP.

PROJECT VICINITY:



SHEET INDEX:

- SHEET 1: COVER SHEET & NOTES
- SHEET 2: SURVEY CONTROL MAP - ELDRIDGE & NEQUALICUM
- SHEET 3: SURVEY CONTROL MAP - ELDRIDGE & LAFAYETTE
- SHEET 4: SURVEY CONTROL MAP - ELDRIDGE & WEST
- SHEET 5: SURVEY CONTROL MAP - ELDRIDGE & VICTOR

LEGEND:

- △ SURVEY CONTROL
- SET 1/2" REBAR/CAP



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Date	No	Revision	By

PROJECT ENGINEER _____

DESIGNED/DRAWN _____

INSPECTOR _____

DIRECTOR PUBLIC WORKS E.C.J. _____

CITY ENGINEER C.M.A.S. _____

ASSISTANT DIRECTOR M.A.O. _____

CITY OF BELLINGHAM, WASHINGTON

PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION

SCALE

Horiz. 1"= 250'

Vert. 1"= 5'

DATUM

NAD 83/98

NAVD 88

Job. No. ES563

Date 04/07/2023

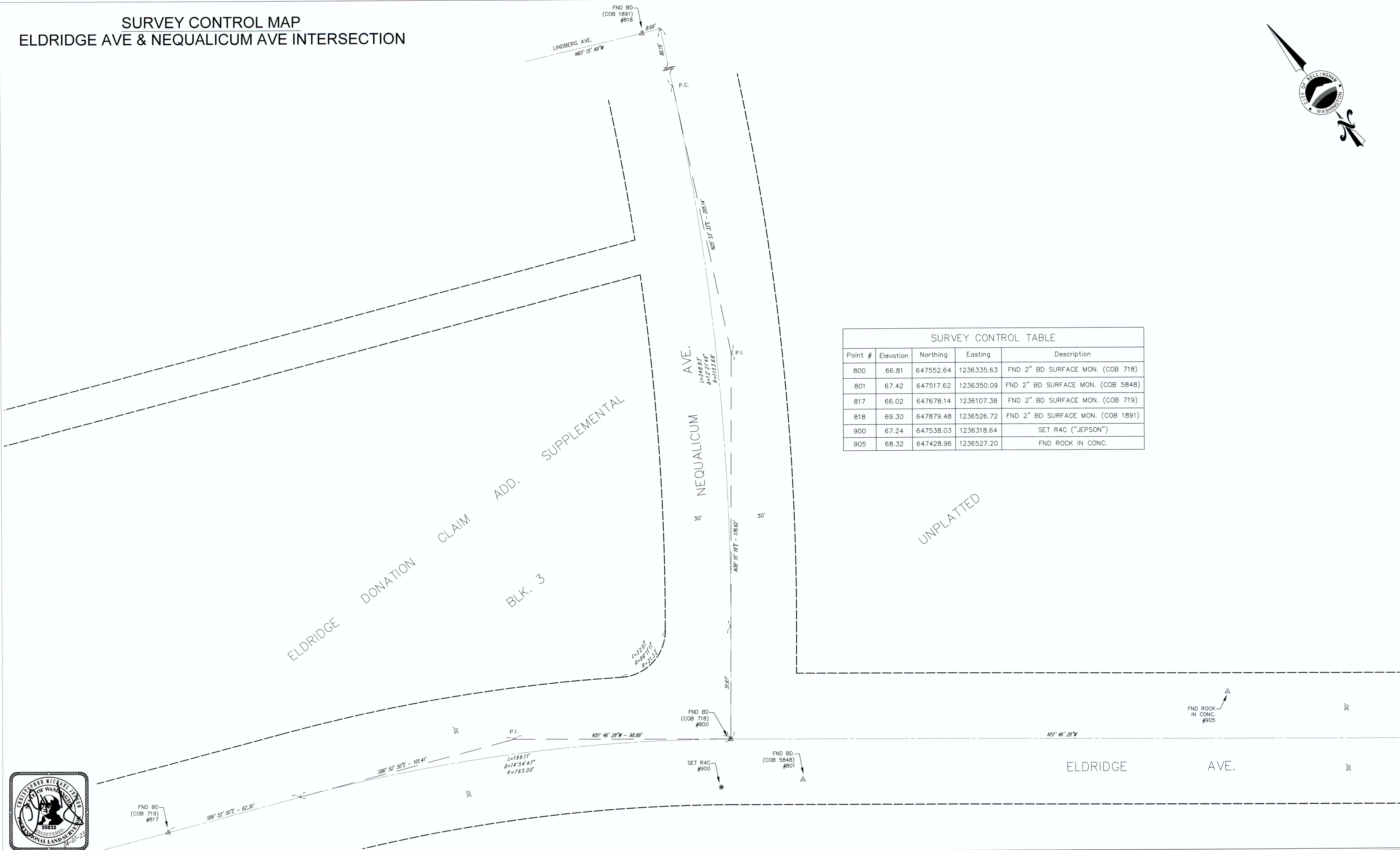
Field Bk. MAP19_DGB21&22

WEST SIDE NON-MOTORIZED IMPROVEMENTS

SURVEY CONTROL ELDRIDGE AVE.

SHEET 3 OF 45

SURVEY CONTROL MAP
ELDRIDGE AVE & NEQUALICUM AVE INTERSECTION



SURVEY CONTROL TABLE				
Point #	Elevation	Northing	Easting	Description
800	66.81	647552.64	1236335.63	FND 2" BD SURFACE MON. (COB 718)
801	67.42	647517.62	1236350.09	FND 2" BD SURFACE MON. (COB 5848)
817	66.02	647678.14	1236107.38	FND 2" BD SURFACE MON. (COB 719)
818	69.30	647879.48	1236526.72	FND 2" BD SURFACE MON. (COB 1891)
900	67.24	647538.03	1236318.64	SET R4C ("JEPSON")
905	68.32	647428.96	1236527.20	FND ROCK IN CONC.



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Date	No	Revision	By

PROJECT ENGINEER _____
DESIGNED/DRAWN _____
INSPECTOR _____

DIRECTOR PUBLIC WORKS E.C.J. _____
CITY ENGINEER C.M.A.S. _____
ASSISTANT DIRECTOR M.A.O. _____

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"=20'
Vert. 1"=5'

DATUM
NAD 83/98
NAVD 88

Job. No. ES563
Date 04/07/2023
Field Bk. MAP19_DGB21&22

WEST SIDE NON-MOTORIZED IMPROVEMENTS
SURVEY CONTROL ELDRIDGE AVE.

SURVEY CONTROL MAP
ELDRIDGE AVE & LAFAYETTE ST. INTERSECTION



SURVEY CONTROL TABLE				
Point #	Elevation	Northing	Easting	Description
802	68.19	646896.47	1237428.82	FND 2" BD SURFACE MON. (COB 716)
813	67.06	646776.18	1237656.94	FND 2" BD SURFACE MON. (COB 715)
814	69.01	647144.07	1236959.06	FND 2" BD SURFACE MON. (COB 717)
815	68.93	647098.14	1237408.27	FND 2" BD SURFACE MON. (COB 1064)
816	68.29	646909.50	1237404.09	FND NAIL/SHINER (COB 6153)
902	67.58	646918.98	1237428.14	SET 1/2" REBAR/CAP ("JEPSON")



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Date	No	Revision	By

PROJECT ENGINEER _____
DESIGNED/DRAWN _____
INSPECTOR _____

DIRECTOR PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

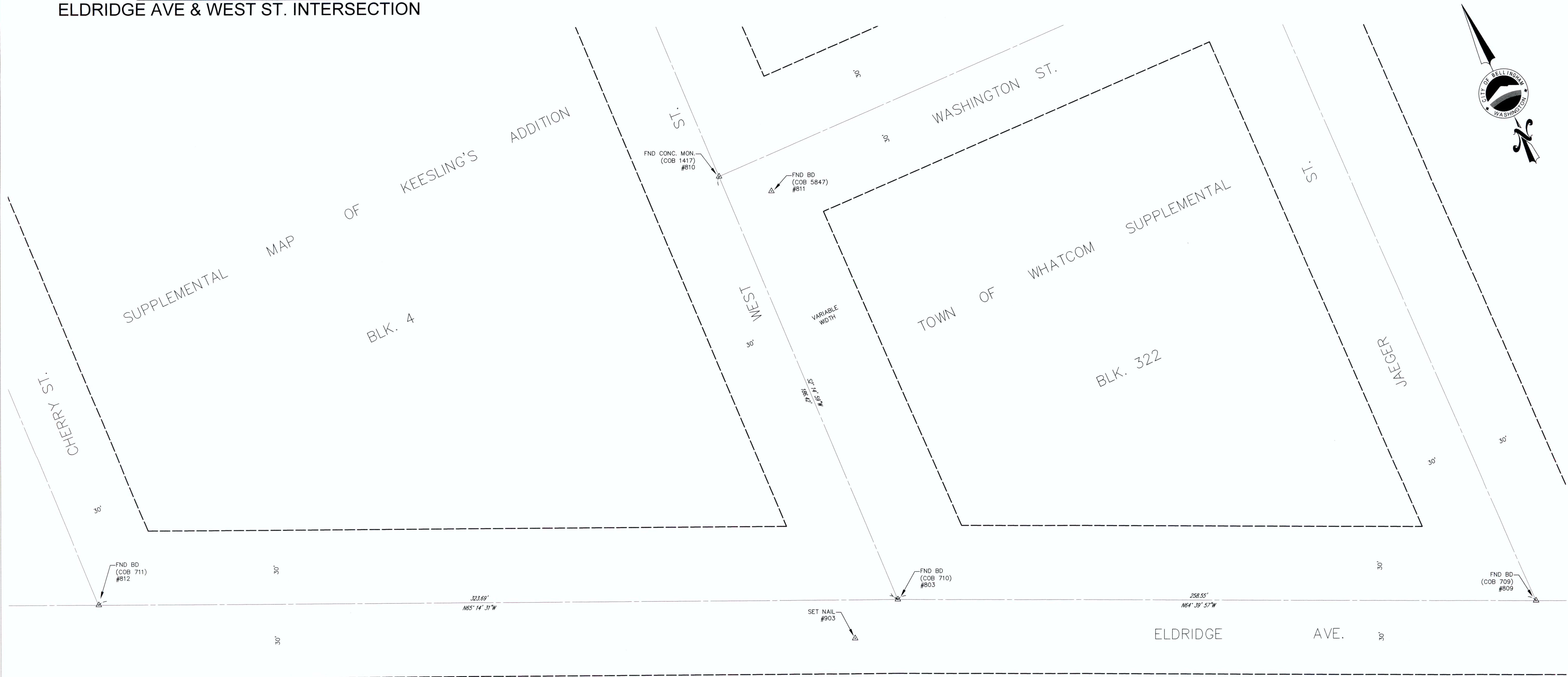
SCALE	
Horiz.	1" = 20'
Vert.	1" = 5'

DATUM
NAD 83/98
NAVD 88

Job. No. ES563
Date 04/07/2023
Field Bk. MAP19. DGB21&22

WEST SIDE NON-MOTORIZED IMPROVEMENTS
SURVEY CONTROL ELDRIDGE AVE.

SURVEY CONTROL MAP
ELDRIDGE AVE & WEST ST. INTERSECTION



SURVEY CONTROL TABLE				
Point #	Elevation	Northing	Easting	Description
803	69.66	646423.95	1238497.42	FND 2" BD SURFACE MON (COB 710)
809	69.44	646313.29	1238731.09	FND 2" BD SURFACE MON. (COB 709)
810	69.48	646610.21	1238504.74	FND CONC. MON. (COB 1417)
811	69.85	646595.79	1238521.41	FND BD BM (COB 5847)
812	67.87	646559.51	1238203.53	FND BD SURFACE MON. (COB 711)
903	68.81	646417.06	1238475.04	SET NAIL



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Date	No	Revision	By

PROJECT ENGINEER _____
DESIGNED/DRAWN _____
INSPECTOR _____

DIRECTOR PUBLIC WORKS E.C.J. _____
CITY ENGINEER C.M.A.S. _____
ASSISTANT DIRECTOR M.A.O. _____

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= 5"

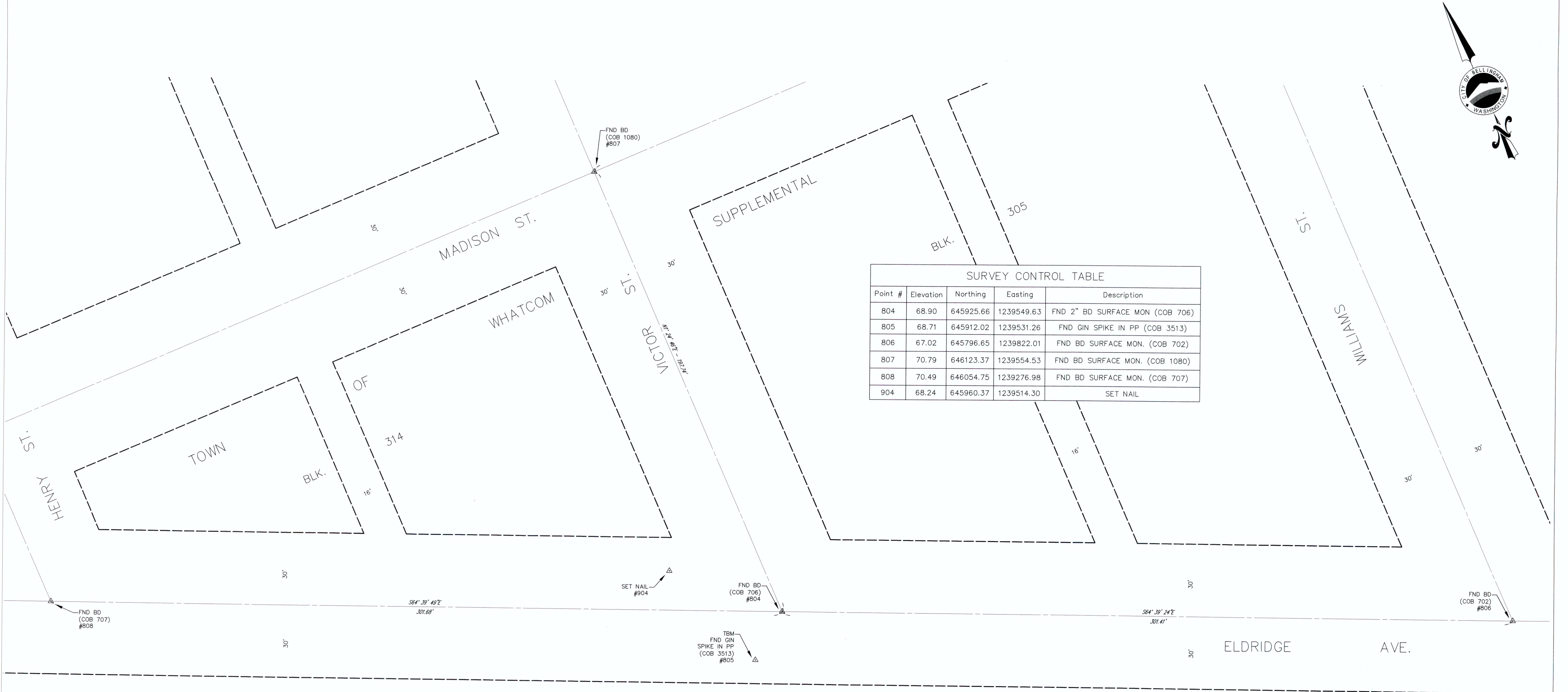
DATUM
NAD 83/98
NAVD 88

Job. No. ES563
Date 04/07/2023
Field Bk. MAP19_DGB21&22

WEST SIDE NON-MOTORIZED IMPROVEMENTS
SURVEY CONTROL ELDRIDGE AVE.

SHEET 6 OF 45

SURVEY CONTROL MAP
ELDRIDGE AVE & VICTOR ST. INTERSECTION



SURVEY CONTROL TABLE				
Point #	Elevation	Northing	Easting	Description
804	68.90	645925.66	1239549.63	FND 2" BD SURFACE MON (COB 706)
805	68.71	645912.02	1239531.26	FND GIN SPIKE IN PP (COB 3513)
806	67.02	645796.65	1239822.01	FND BD SURFACE MON. (COB 702)
807	70.79	646123.37	1239554.53	FND BD SURFACE MON. (COB 1080)
808	70.49	646054.75	1239276.98	FND BD SURFACE MON. (COB 707)
904	68.24	645960.37	1239514.30	SET NAIL



WEST SIDE NON-MOTORIZED IMPROVEMENTS

CITY OF BELLINGHAM PUBLIC WORKS PROJECT #ES563 SURVEY CONTROL WORKSHEET

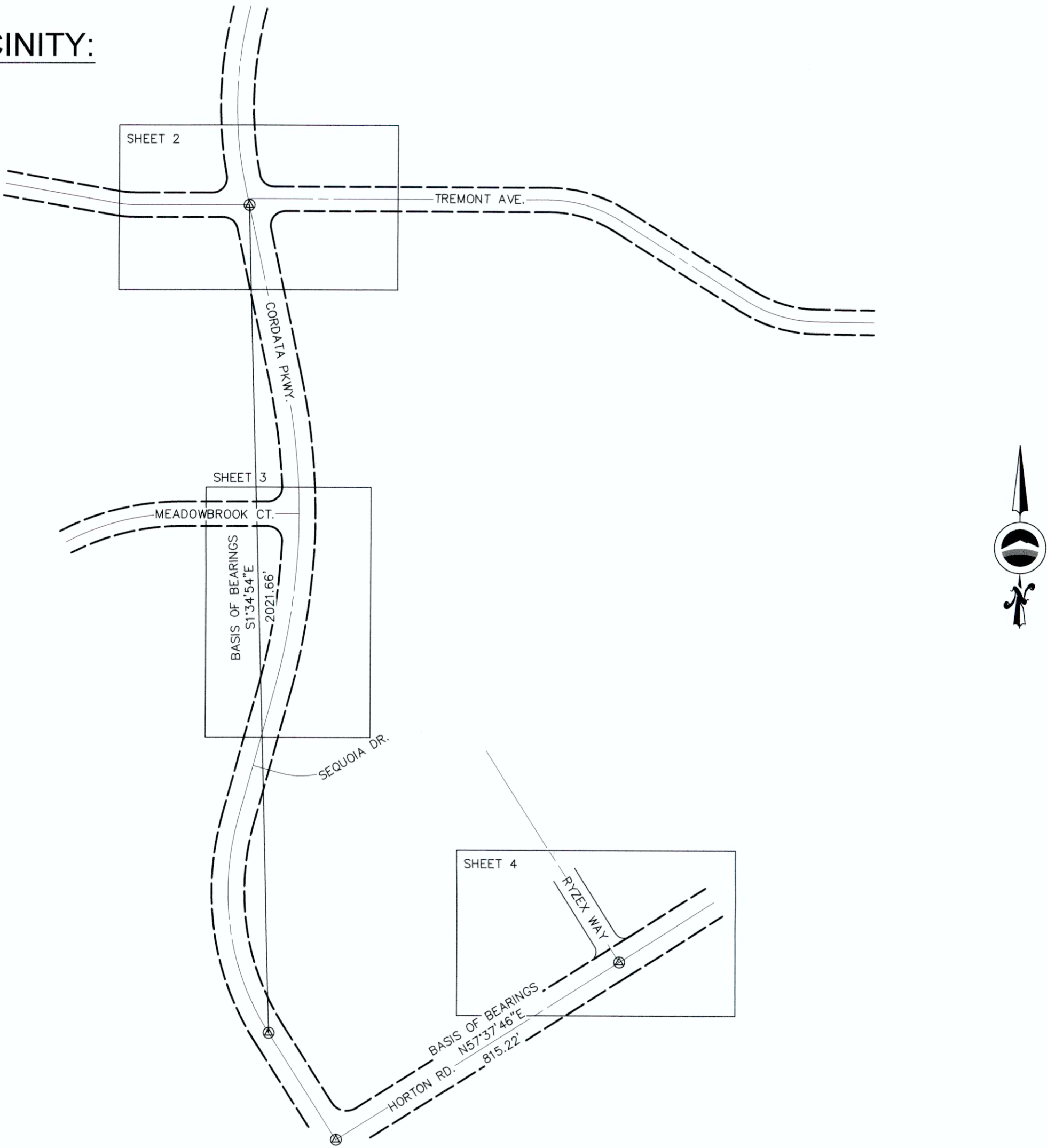
SURVEYOR'S NOTES:

1. **HORIZONTAL DATUM:** RELATED TO WASHINGTON COORDINATE SYSTEM (NAD83/98), NORTH ZONE
- LINES HELD:
- S1°34'54"E 2021.66'** BETWEEN FOUND BRASS DISKS (COB 2788 & 3709) IN THE CENTERLINE OF CORDATA PARKWAY, AS SHOWN. (TREMONT & CORDATA SURVEYS)
- N57°37'46"E 815.22'** BETWEEN FOUND BRASS DISK (COB 2185) AT THE INTERSECTION OF CORDATA PARKWAY AND HORTON RD., AND FOUND BRASS DISK (COB 3036) AT THE INTERSECTION OF HORTON RD. AND RYZEX WAY, AS SHOWN. (RYZEX SURVEY)
- BASIS OF COORDINATES:**
- | | | | |
|-----------------|---------------|--------------|---------------|
| COB 2788 (#902) | 2" BRASS DISK | N: 665397.86 | E: 1239342.91 |
| COB 3709 (#911) | 2" BRASS DISK | N: 663376.97 | E: 1239398.71 |
2. **VERTICAL DATUM:** NAVD88
- PROJECT BENCHMARKS:
- | | | |
|-----------------|-----------------------------|------------------------|
| COB 3030 (#919) | FOUND 3" BRASS DISK IN CASE | EL=166.80' |
| COB 3036 (#916) | FOUND 2" BRASS DISK | EL=165.36' |
| COB 3709 (#911) | FOUND 2" BRASS DISK | EL=162.91' (R=162.90') |
3. DATE OF SURVEY: **APRIL 13, 14, 17, 18, 19, & 24, 2023**
4. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET FORTH BY WAC 332-130-145: TOPOGRAPHIC ELEMENTS ON MAPS.
5. THE PURPOSE OF THIS SURVEY WAS TO COLLECT TOPOGRAPHIC DATA WITHIN THE RIGHT OF WAY OF THE SCOPED AREA.
6. THIS SURVEY WAS ACCOMPLISHED USING STANDARD FIELD TRAVERSE PROCEDURES WITH A TOTAL STATION. VERTICAL CONTROL WAS ESTABLISHED USING CLOSED LOOP DIFFERENTIAL LEVELING. ALL MONUMENTS SHOWN WERE VISITED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
7. SURFACE CONTOURS DEPICTED WITH 1' (MINOR) AND 5' (MAJOR) INTERVALS WERE GENERATED FROM FIELD OBSERVATIONS USING AUTOCAD CIVIL 3D (VERSION 2019) AND ARE TYPICALLY ACCURATE TO WITHIN APPROXIMATELY 0.5'±.
8. JEPSON AND ASSOCIATES ASSUMES NO LIABILITY FOR ANY SUBSURFACE CONDITIONS OR FEATURES THAT MAY EXIST WHICH WERE UNDETECTABLE OR NOT VIABLE AT THE TIME OF THIS SURVEY AND THEREAFTER.
9. THIS IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS SUCH. SEE A RECORD OF SURVEY OR PLAT MAP.

SHEET INDEX:

SHEET 1: COVER SHEET & NOTES
SHEET 2: SURVEY CONTROL MAP

PROJECT VICINITY:



LEGEND:

- △ SURVEY CONTROL
⊗ FOUND BRASS DISK MON
BD BRASS DISK



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Date	No	Revision	By

PROJECT ENGINEER _____
DESIGNED/DRAWN _____
INSPECTOR _____

DIRECTOR PUBLIC WORKS E.C.J. _____
CITY ENGINEER C.M.A.S. _____
ASSISTANT DIRECTOR M.A.O. _____

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 250'
Vert. 1"= 5'

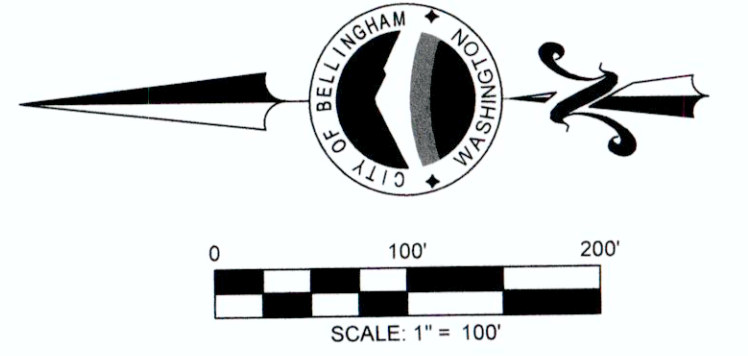
DATUM
NAD 83/98
NAVD 88

Job. No. ES563
Date 05/02/2023
Field Bk. 1068-2

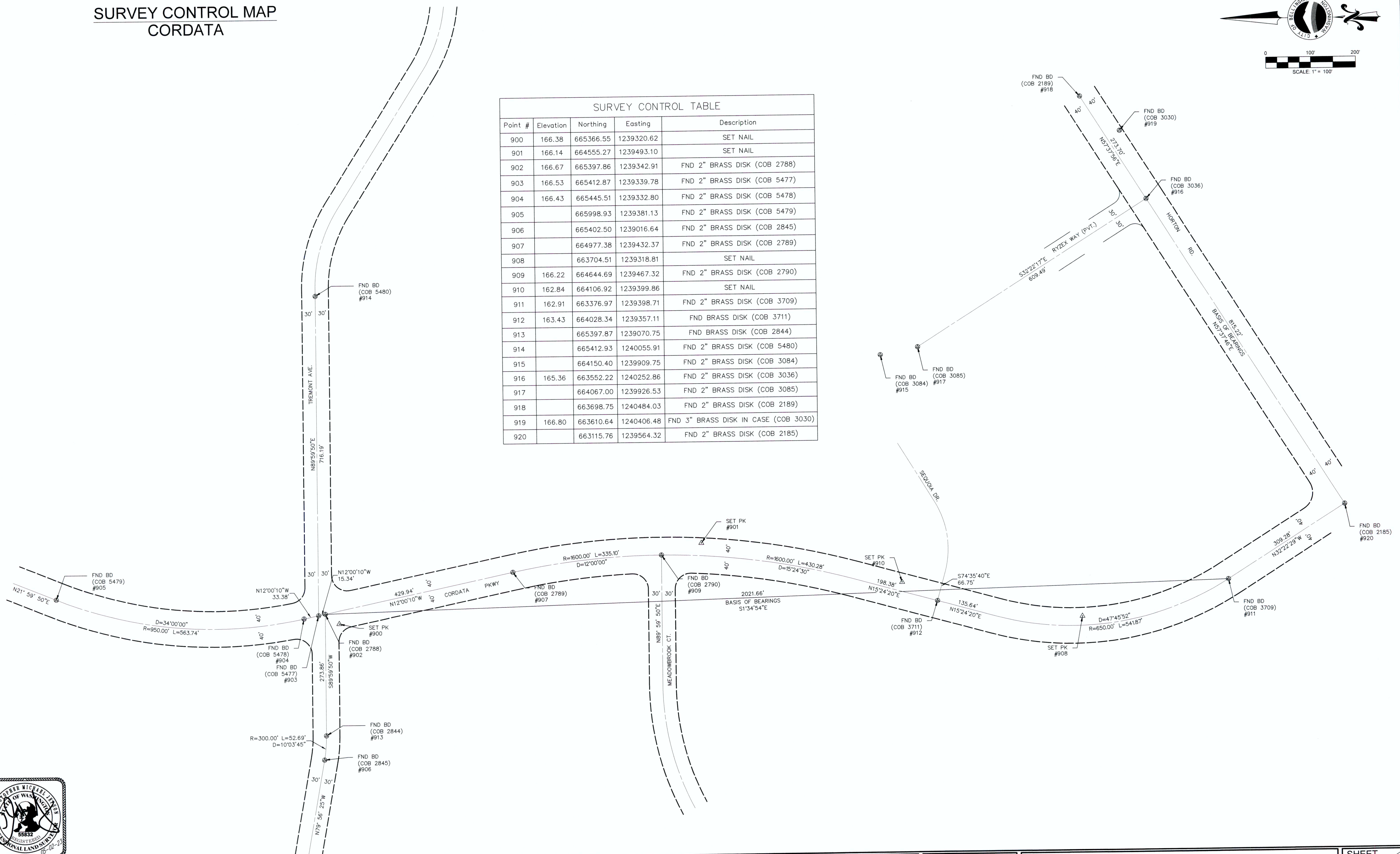
WEST SIDE NON-MOTORIZED IMPROVEMENTS
SURVEY CONTROL CORDATA PKWY.

SHEET 8 OF 45

SURVEY CONTROL MAP
CORDATA



SURVEY CONTROL TABLE				
Point #	Elevation	Northing	Easting	Description
900	166.38	665366.55	1239320.62	SET NAIL
901	166.14	664555.27	1239493.10	SET NAIL
902	166.67	665397.86	1239342.91	FND 2" BRASS DISK (COB 2788)
903	166.53	665412.87	1239339.78	FND 2" BRASS DISK (COB 5477)
904	166.43	665445.51	1239332.80	FND 2" BRASS DISK (COB 5478)
905		665998.93	1239381.13	FND 2" BRASS DISK (COB 5479)
906		665402.50	1239016.64	FND 2" BRASS DISK (COB 2845)
907		664977.38	1239432.37	FND 2" BRASS DISK (COB 2789)
908		663704.51	1239318.81	SET NAIL
909	166.22	664644.69	1239467.32	FND 2" BRASS DISK (COB 2790)
910	162.84	664106.92	1239399.86	SET NAIL
911	162.91	663376.97	1239398.71	FND 2" BRASS DISK (COB 3709)
912	163.43	664028.34	1239357.11	FND BRASS DISK (COB 3711)
913		665397.87	1239070.75	FND BRASS DISK (COB 2844)
914		665412.93	1240055.91	FND 2" BRASS DISK (COB 5480)
915		664150.40	1239909.75	FND 2" BRASS DISK (COB 3084)
916	165.36	663552.22	1240252.86	FND 2" BRASS DISK (COB 3036)
917		664067.00	1239926.53	FND 2" BRASS DISK (COB 3085)
918		663698.75	1240484.03	FND 2" BRASS DISK (COB 2189)
919	166.80	663610.64	1240406.48	FND 3" BRASS DISK IN CASE (COB 3030)
920		663115.76	1239564.32	FND 2" BRASS DISK (COB 2185)



4			
3			
2			
1			
Date	No	Revision	By

PROJECT ENGINEER _____
DESIGNED/DRAWN _____
INSPECTOR _____

DIRECTOR PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 100'
Vert. 1"= 5'

DATUM
NAD 83/98
NAVD 88

Job. No. ES563
Date 05/02/2023
Field Bk. 1068-2

WEST SIDE NON-MOTORIZED IMPROVEMENTS
SURVEY CONTROL CORDATA PKWY.

SHEET 9 OF 45

WEST SIDE NON-MOTORIZED IMPROVEMENTS

CITY OF BELLINGHAM PUBLIC WORKS PROJECT #ES563 SURVEY CONTROL WORKSHEET

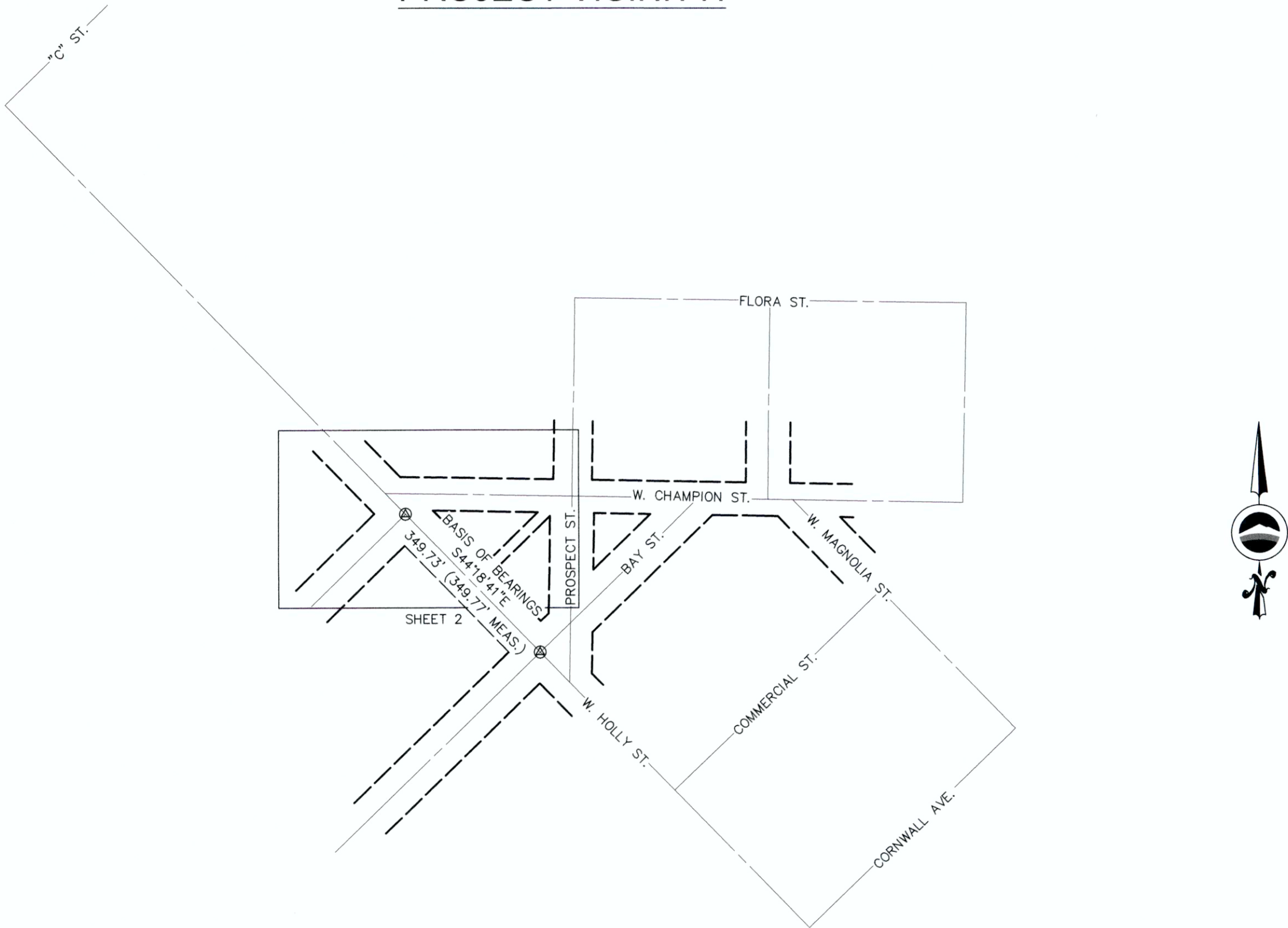
SURVEYOR'S NOTES:

1. **HORIZONTAL DATUM:** RELATED TO WASHINGTON COORDINATE SYSTEM (NAD83/98), NORTH ZONE
- LINE HELD: **S44°18'41"E 349.73'** (349.77' MEAS.) BETWEEN FOUND BRASS DISK MONUMENTS (COB 2494 AND 803) IN THE CENTERLINE OF W. HOLLY ST., AS SHOWN.
- BASIS OF COORDINATES:**
- | | | | |
|-----------------|------------|--------------|---------------|
| COB 2494 (#903) | BRASS DISK | N: 643281.33 | E: 1242631.68 |
| COB 803 (#905) | BRASS DISK | N: 643031.05 | E: 1242876.02 |
2. **VERTICAL DATUM:** NAVD88
- PROJECT BENCHMARKS:
- | | | |
|-----------------|----------------------------|-----------|
| COB 5594 (#908) | FOUND BRASS DISK BENCHMARK | EL=26.15' |
| COB 5869 (#904) | FOUND BRASS DISK BENCHMARK | EL=61.94' |
3. DATE OF SURVEY: **APRIL 3 & 12, 2023**
4. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET FORTH BY WAC 332-130-145: TOPOGRAPHIC ELEMENTS ON MAPS.
5. THE PURPOSE OF THIS SURVEY WAS TO COLLECT TOPOGRAPHIC DATA WITHIN THE RIGHT OF WAY OF THE SCOPED AREA.
6. THIS SURVEY WAS ACCOMPLISHED USING A COMBINATION OF RELATIVE GNSS OBSERVATIONS WITH A BASE/ROVER RTK CONFIGURATION AND STANDARD FIELD TRAVERSE PROCEDURES WITH A TOTAL STATION. VERTICAL CONTROL WAS ESTABLISHED USING CLOSED LOOP DIFFERENTIAL LEVELING. ALL MONUMENTS SHOWN WERE VISITED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
7. SURFACE CONTOURS DEPICTED WITH 1' (MINOR) AND 5' (MAJOR) INTERVALS WERE GENERATED FROM FIELD OBSERVATIONS USING AUTOCAD CIVIL 3D (VERSION 2019) AND ARE TYPICALLY ACCURATE TO WITHIN APPROXIMATELY 0.5'±.
8. JEPSON AND ASSOCIATES ASSUMES NO LIABILITY FOR ANY SUBSURFACE CONDITIONS OR FEATURES THAT MAY EXIST WHICH WERE UNDETECTABLE OR NOT VIABLE AT THE TIME OF THIS SURVEY AND THEREAFTER.
9. THIS IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS SUCH, SEE A RECORD OF SURVEY OR PLAT MAP.

SHEET INDEX:

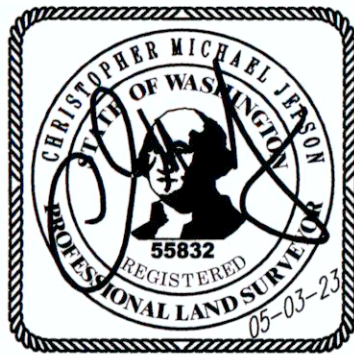
SHEET 1: COVER SHEET & NOTES
SHEET 2: SURVEY CONTROL MAP - HOLLY & CHAMPION

PROJECT VICINITY:



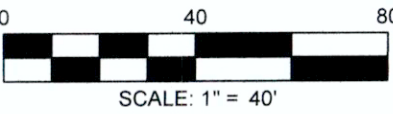
LEGEND:

- △ SURVEY CONTROL
⊙ FOUND CENTERLINE MON.
⊙ SEWER MANHOLE
BD BRASS DISK



	4			PROJECT ENGINEER	DIRECTOR PUBLIC WORKS E.C.J.	CITY OF BELLINGHAM, WASHINGTON PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	SCALE	DATUM	Job. No. ES563	WEST SIDE NON-MOTORIZED IMPROVEMENTS SURVEY CONTROL W. HOLLY ST. & W. CHAMPION ST.	SHEET 10 OF 45
	3			DESIGNED/DRAWN	CITY ENGINEER C.M.A.S.		Horiz. 1"= 200'	NAD 83/98	Date 05/03/2023		
	2				ASSISTANT DIRECTOR M.A.O.		Vert. 1"= 5'	NAVD 88	Field Bk. 1068-2		
Date	No	Revision	By	INSPECTOR							

SURVEY CONTROL MAP
W. HOLLY ST. & W. CHAMPION ST. INTERSECTION



SURVEY CONTROL TABLE				
Point #	Elevation	Northing	Easting	Description
900	41.68	643292.68	1242592.90	SET NAIL
901	23.90	643594.76	1242357.58	SET NAIL
902	41.55	643319.18	1242594.81	FOUND BRASS DISK (COB 816)
903	43.62	643281.33	1242631.68	FOUND BRASS DISK (COB 2494)
904	61.94	643062.05	1242873.76	FOUND BRASS DISK (COB 5869)
905		643031.05	1242876.02	FOUND BRASS DISK (COB 803)
906		643313.66	1242933.87	FOUND BRASS DISK (COB 1221)
907	41.75	643351.37	1242629.50	SET NAIL
908	26.15	643510.97	1242381.75	FOUND BRASS DISK (COB 5594)



	4		
	3		
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	1		
Date	No	Revision	By

PROJECT ENGINEER	
DESIGNED/DRAWN	
INSPECTOR	

DIRECTOR PUBLIC WORKS E.C.J.	
CITY ENGINEER C.M.A.S.	
ASSISTANT DIRECTOR M.A.O.	

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE	
Horiz. 1"= 40'	
Vert. 1"= 5"	

DATUM	
NAD 83/98	
NAVD 88	

Job. No. ES563	
Date 05/03/2023	
Field Bk. 1068-2	

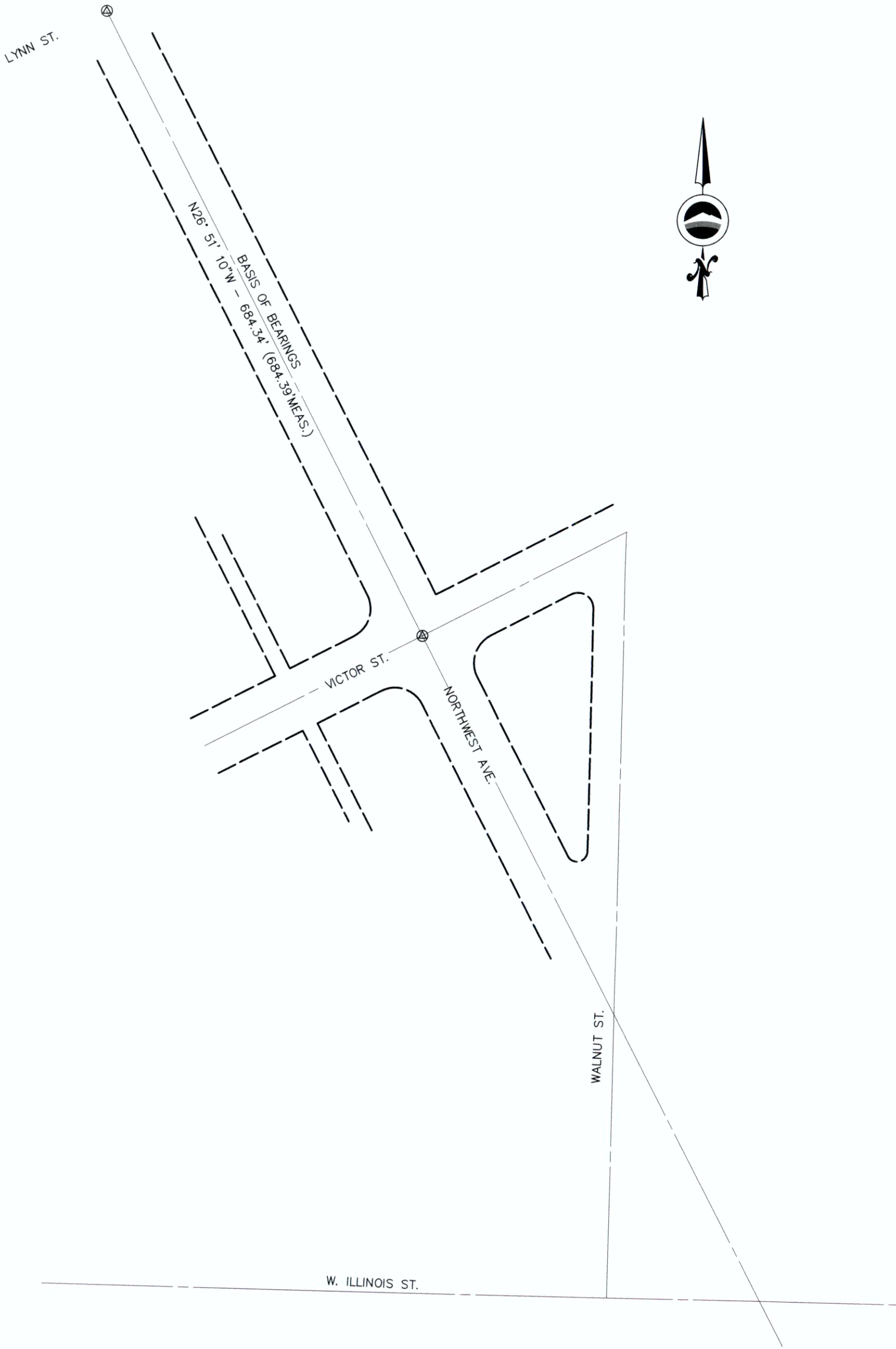
WEST SIDE NON-MOTORIZED IMPROVEMENTS
SURVEY CONTROL W. HOLLY ST. & W. CHAMPION ST.

SHEET	OF
11	45

WEST SIDE NON-MOTORIZED IMPROVEMENTS

CITY OF BELLINGHAM PUBLIC WORKS PROJECT #ES563 SURVEY CONTROL WORKSHEET

PROJECT VICINITY:



SURVEYOR'S NOTES:

1. **HORIZONTAL DATUM:** RELATED TO WASHINGTON COORDINATE SYSTEM (NAD83/98), NORTH ZONE
- LINE HELD: **N26°51'10"W 684.34'** (684.39' MEAS.) BETWEEN FOUND BRASS DISK (COB 1156) AT THE INTERSECTION OF NORTHWEST AVE. AND VICTOR ST., AND FOUND BRASS DISK (COB 1155) AT THE INTERSECTION OF NORTHWEST AVE. AND LYNN ST., AS SHOWN.
- BASIS OF COORDINATES:**
- | | | | |
|-----------------|------------------|--------------|---------------|
| COB 1155 (#907) | 2" BRASS DISK | N: 650581.56 | E: 1239973.15 |
| COB 871 (#911) | CONC. MON W/ PIN | N: 649336.96 | E: 1239911.70 |
2. **VERTICAL DATUM:** NAVD88
- METHOD: CLOSED LOOP DIFFERENTIAL LEVELING
- PROJECT BENCHMARKS:
- | | | |
|----------|--------------------------|-----------|
| COB 5843 | BRASS DISK BM | EL=81.24' |
| COB 4693 | LIGHT POLE BOLT | EL=82.16' |
| COB 3508 | 60D NAIL IN UTILITY POLE | EL=81.81' |
3. DATE OF SURVEY: **MARCH 23 & 24 AND APRIL 3, 2023**
4. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET FORTH BY WAC 332-130-145: TOPOGRAPHIC ELEMENTS ON MAPS.
5. THE PURPOSE OF THIS SURVEY WAS TO COLLECT TOPOGRAPHIC DATA WITHIN THE RIGHT OF WAY OF THE SCOPED AREA.
6. THIS SURVEY WAS ACCOMPLISHED USING STANDARD FIELD TRAVERSE PROCEDURES WITH A TOTAL STATION. VERTICAL CONTROL WAS ESTABLISHED USING CLOSED LOOP DIFFERENTIAL LEVELING. ALL MONUMENTS SHOWN WERE VISITED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
7. SURFACE CONTOURS DEPICTED WITH 1' (MINOR) AND 5' (MAJOR) INTERVALS WERE GENERATED FROM FIELD OBSERVATIONS USING AUTOCAD CIVIL 3D (VERSION 2019) AND ARE TYPICALLY ACCURATE TO WITHIN APPROXIMATELY 0.5'±.
8. JEPSON AND ASSOCIATES ASSUMES NO LIABILITY FOR ANY SUBSURFACE CONDITIONS OR FEATURES THAT MAY EXIST WHICH WERE UNDETECTABLE OR NOT VIABLE AT THE TIME OF THIS SURVEY AND THEREAFTER.
9. THIS IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS SUCH, SEE A RECORD OF SURVEY OR PLAT MAP.

LEGEND:

- △ SURVEY CONTROL
- ⊙ FOUND CENTERLINE MON.
- BD BRASS DISK

SHEET INDEX:

SHEET 1: COVER SHEET & NOTES
SHEET 2: SURVEY CONTROL WORKSHEET



	4		
	3		
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	1		
Date	No	Revision	By

PROJECT ENGINEER
DESIGNED/DRAWN
INSPECTOR

DIRECTOR PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 250'
Vert. N/A

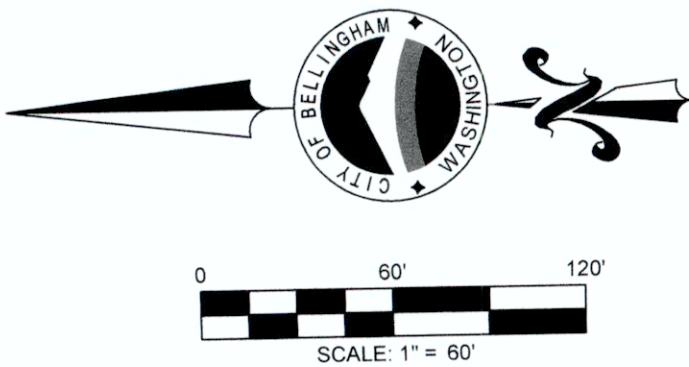
DATUM
NAD 83/98
NAVD 88

Job. No.	ES563
Date	05/02/2023
Field Bk.	1068-1

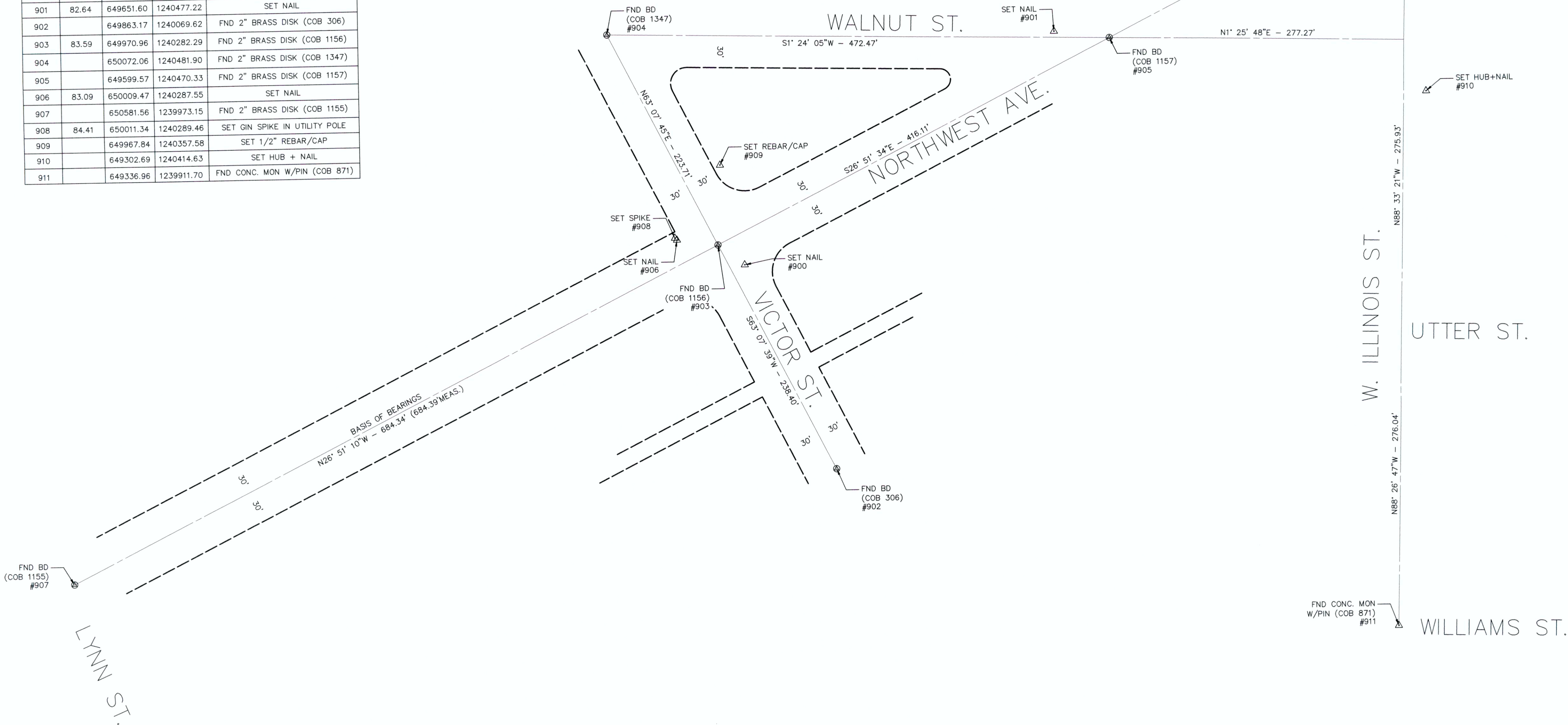
WEST SIDE NON-MOTORIZED IMPROVEMENTS
SURVEY CONTROL NORTHWEST AVE. & VICTOR ST.

SHEET	OF
12	45

SURVEY CONTROL MAP
NORTHWEST AVE. & VICTOR ST. INTERSECTION



SURVEY CONTROL TABLE				
Point #	Elevation	Northing	Easting	Description
900	82.94	649946.14	1240263.02	SET NAIL
901	82.64	649651.60	1240477.22	SET NAIL
902		649863.17	1240069.62	FND 2" BRASS DISK (COB 306)
903	83.59	649970.96	1240282.29	FND 2" BRASS DISK (COB 1156)
904		650072.06	1240481.90	FND 2" BRASS DISK (COB 1347)
905		649599.57	1240470.33	FND 2" BRASS DISK (COB 1157)
906	83.09	650009.47	1240287.55	SET NAIL
907		650581.56	1239973.15	FND 2" BRASS DISK (COB 1155)
908	84.41	650011.34	1240289.46	SET GIN SPIKE IN UTILITY POLE
909		649967.84	1240357.58	SET 1/2" REBAR/CAP
910		649302.69	1240414.63	SET HUB + NAIL
911		649336.96	1239911.70	FND CONC. MON W/PIN (COB 871)



	4			
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Date	No	Revision	By	

PROJECT ENGINEER _____
DESIGNED/DRAWN _____
INSPECTOR _____

DIRECTOR PUBLIC WORKS E.C.J. _____
CITY ENGINEER C.M.A.S. _____
ASSISTANT DIRECTOR M.A.O. _____

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"=60'
Vert. N/A

DATUM
NAD 83/98
NAVD 88

Job. No. ES563
Date 05/02/2023
Field Bk. 1068-1

WEST SIDE NON-MOTORIZED IMPROVEMENTS
SURVEY CONTROL NORTHWEST AVE. & VICTOR ST.

SHEET
13 OF
45

WEST SIDE NON-MOTORIZED IMPROVEMENTS

CITY OF BELLINGHAM PUBLIC WORKS PROJECT #ES563 SURVEY CONTROL WORKSHEET

PROJECT VICINITY:

SURVEYOR'S NOTES:

1. **HORIZONTAL DATUM:** RELATED TO WASHINGTON COORDINATE SYSTEM (NAD83/98), NORTH ZONE

BASIS OF BEARINGS: CITY OF BELLINGHAM EU-0190 (SEWER MAIN REPLACEMENT PROGRAM) SURVEY CONTROL PLAN

LINE HELD: **S0°46'55"E 694.83'** BETWEEN FOUND BRASS DISKS (COB 1906 & 1387) IN THE CENTERLINE OF WOBURN ST., AS SHOWN.

BASIS OF COORDINATES:

COB 1906 (#902) BRASS DISK N: 643722.45 E: 1251542.62
COB 1387 (#905) BRASS DISK N: 643027.70 E: 1251552.10

2. **VERTICAL DATUM:** NAVD88

METHOD: CLOSED LOOP DIFFERENTIAL LEVELING

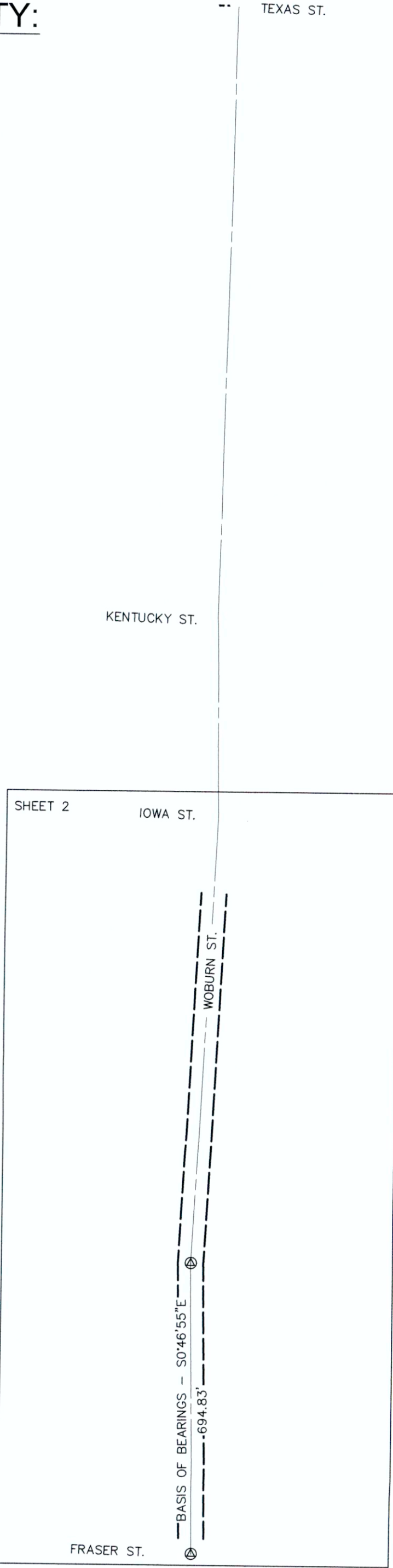
PROJECT BENCHMARKS:

COB 5891 (#904) BRASS DISK BM EL=136.30' (HELD)
COB 1906 (#902) BRASS DISK IN PVC EL=99.77' (R=99.89')
COB 5867 LIGHT POLE BOLT EL=170.67'

3. DATE OF SURVEY: **MARCH 21 & 22, 2023**
4. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET FORTH BY WAC 332-130-145: TOPOGRAPHIC ELEMENTS ON MAPS.
5. THE PURPOSE OF THIS SURVEY WAS TO COLLECT TOPOGRAPHIC DATA WITHIN THE RIGHT OF WAY OF THE SCOPED AREA.
6. THIS SURVEY WAS ACCOMPLISHED USING STANDARD FIELD TRAVERSE PROCEDURES WITH A TOTAL STATION. VERTICAL CONTROL WAS ESTABLISHED USING CLOSED LOOP DIFFERENTIAL LEVELING. ALL MONUMENTS SHOWN WERE VISITED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
7. SURFACE CONTOURS DEPICTED WITH 1' (MINOR) AND 5' (MAJOR) INTERVALS WERE GENERATED FROM FIELD OBSERVATIONS USING AUTOCAD CIVIL 3D (VERSION 2019) AND ARE TYPICALLY ACCURATE TO WITHIN APPROXIMATELY 0.5±.
8. JEPSON AND ASSOCIATES ASSUMES NO LIABILITY FOR ANY SUBSURFACE CONDITIONS OR FEATURES THAT MAY EXIST WHICH WERE UNDETECTABLE OR NOT VIABLE AT THE TIME OF THIS SURVEY AND THEREAFTER.
9. THIS IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS SUCH, SEE A RECORD OF SURVEY OR PLAT MAP.

LEGEND:

- △ SURVEY CONTROL
⊙ FOUND CENTERLINE MON.
BD BRASS DISK



SHEET INDEX:

SHEET 1: COVER SHEET & NOTES
SHEET 2: SURVEY CONTROL MAP



	4		
	3		
	2		
	1		
Date	No	Revision	By

PROJECT ENGINEER _____
DESIGNED/DRAWN _____
INSPECTOR _____

DIRECTOR PUBLIC WORKS E.C.J. _____
CITY ENGINEER C.M.A.S. _____
ASSISTANT DIRECTOR M.A.O. _____

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 250'
Vert. N/A

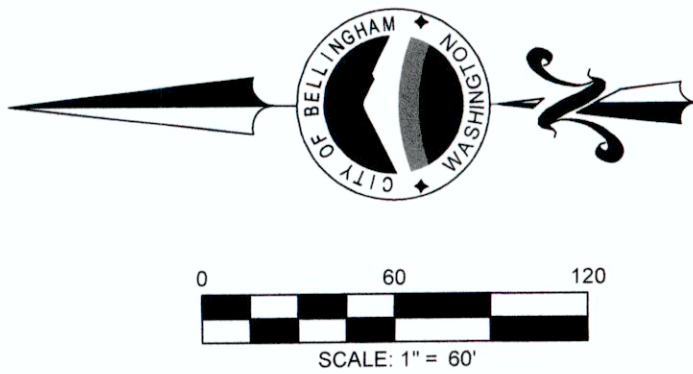
DATUM
NAD 83/98
NAVD 88

Job. No. ES563
Date 05/02/2023
Field Bk. 1068-1

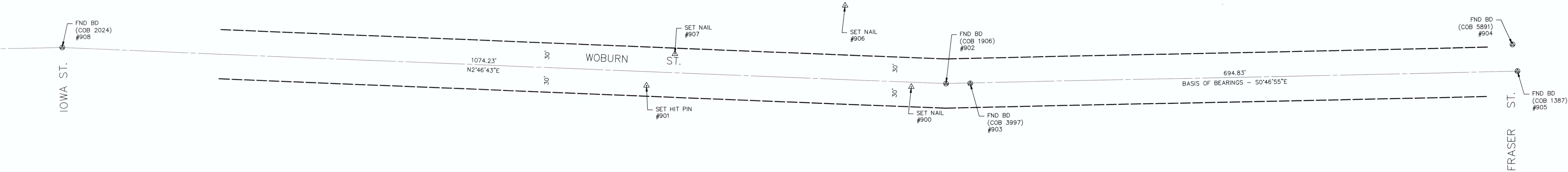
WEST SIDE NON-MOTORIZED IMPROVEMENTS
SURVEY CONTROL NORTHWEST AVE. & VICTOR ST.

SHEET 14 OF 45

SURVEY CONTROL MAP
WOBURN ST.



SURVEY CONTROL TABLE				
Point #	Elevation	Northing	Easting	Description
900	97.51	643764.61	1251538.95	SET NAIL
901	82.88	644086.38	1251543.17	SET HIT PIN
902	99.77 (R=99.89)	643722.45	1251542.62	FND BRASS DISK (COB 1906)
903	101.28	643693.12	1251542.46	FND BRASS DISK (COB 3997)
904	136.30	643033.50	1251584.47	FND BRASS DISK (COB 5891)
905	136.27	643027.70	1251552.10	FND BRASS DISK (COB 1387)
906	-	643844.44	1251638.60	SET NAIL
907	-	644051.58	1251581.61	SET HIT PIN
908	-	644795.42	1251594.70	FND BRASS DISK (COB 2024) LS46896



	4		
	3		
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Date	No	Revision	By

PROJECT ENGINEER	
DESIGNED/DRAWN	
INSPECTOR	

DIRECTOR PUBLIC WORKS E.C.J.	
CITY ENGINEER C.M.A.S.	
ASSISTANT DIRECTOR M.A.O.	

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

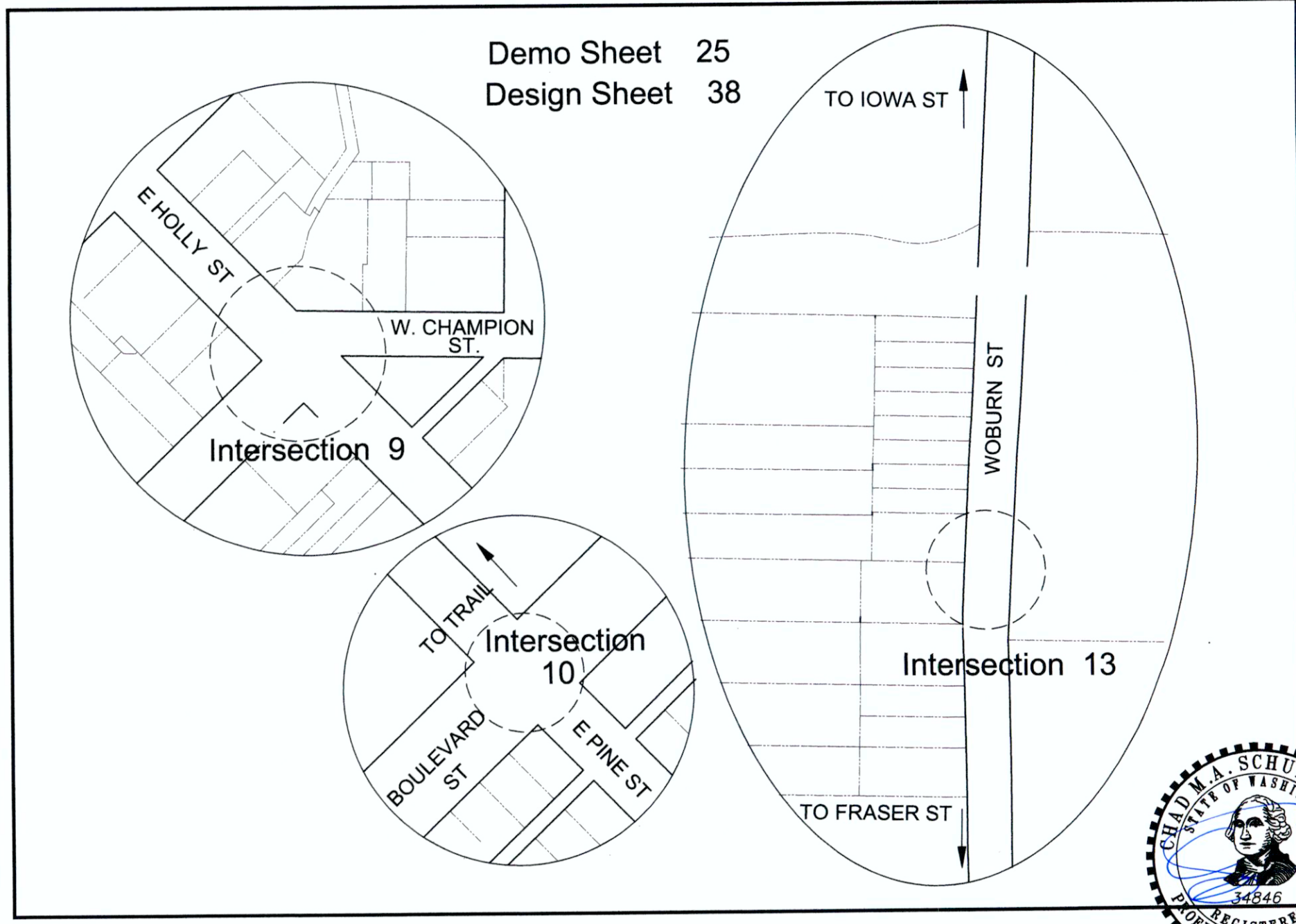
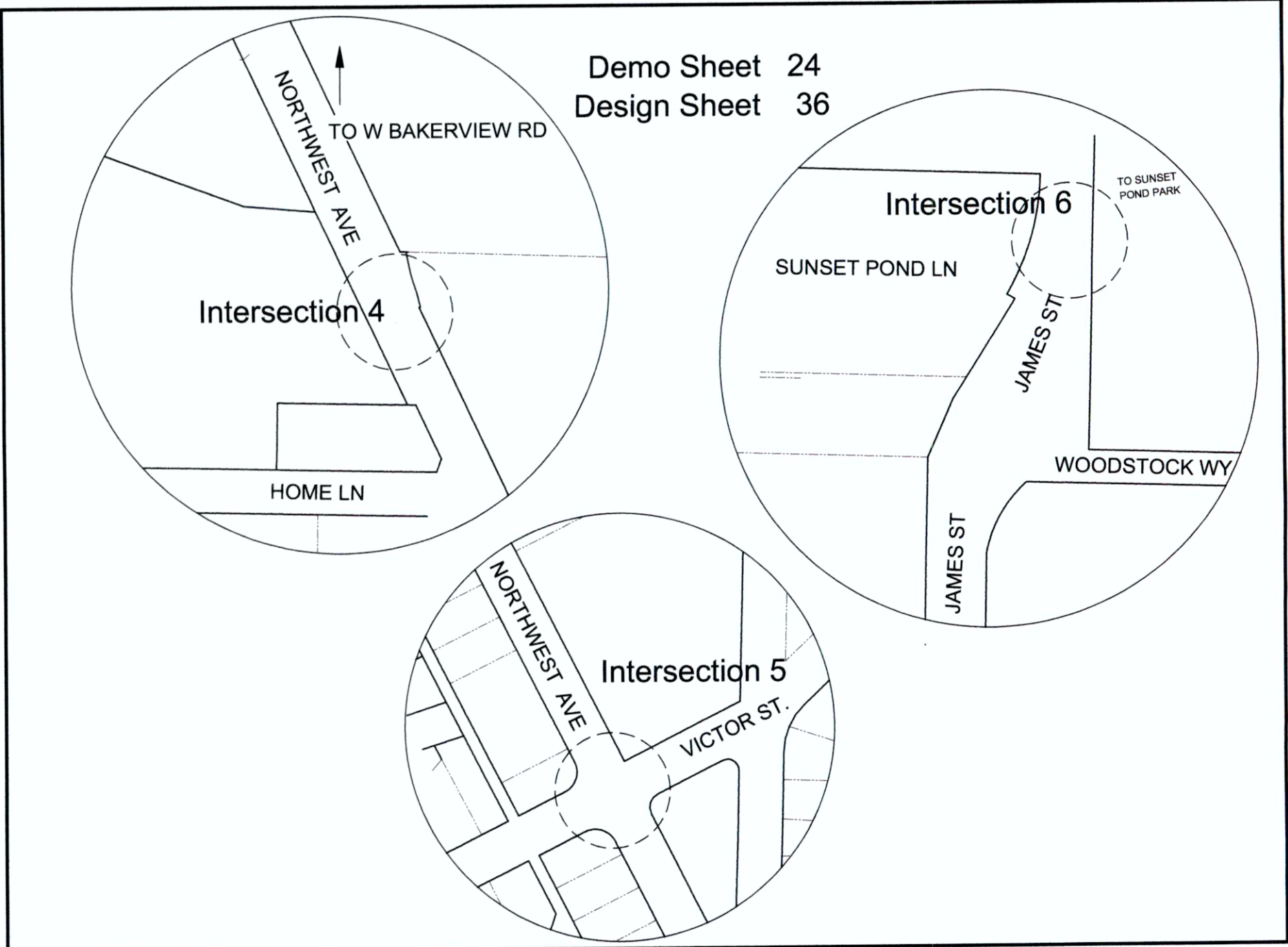
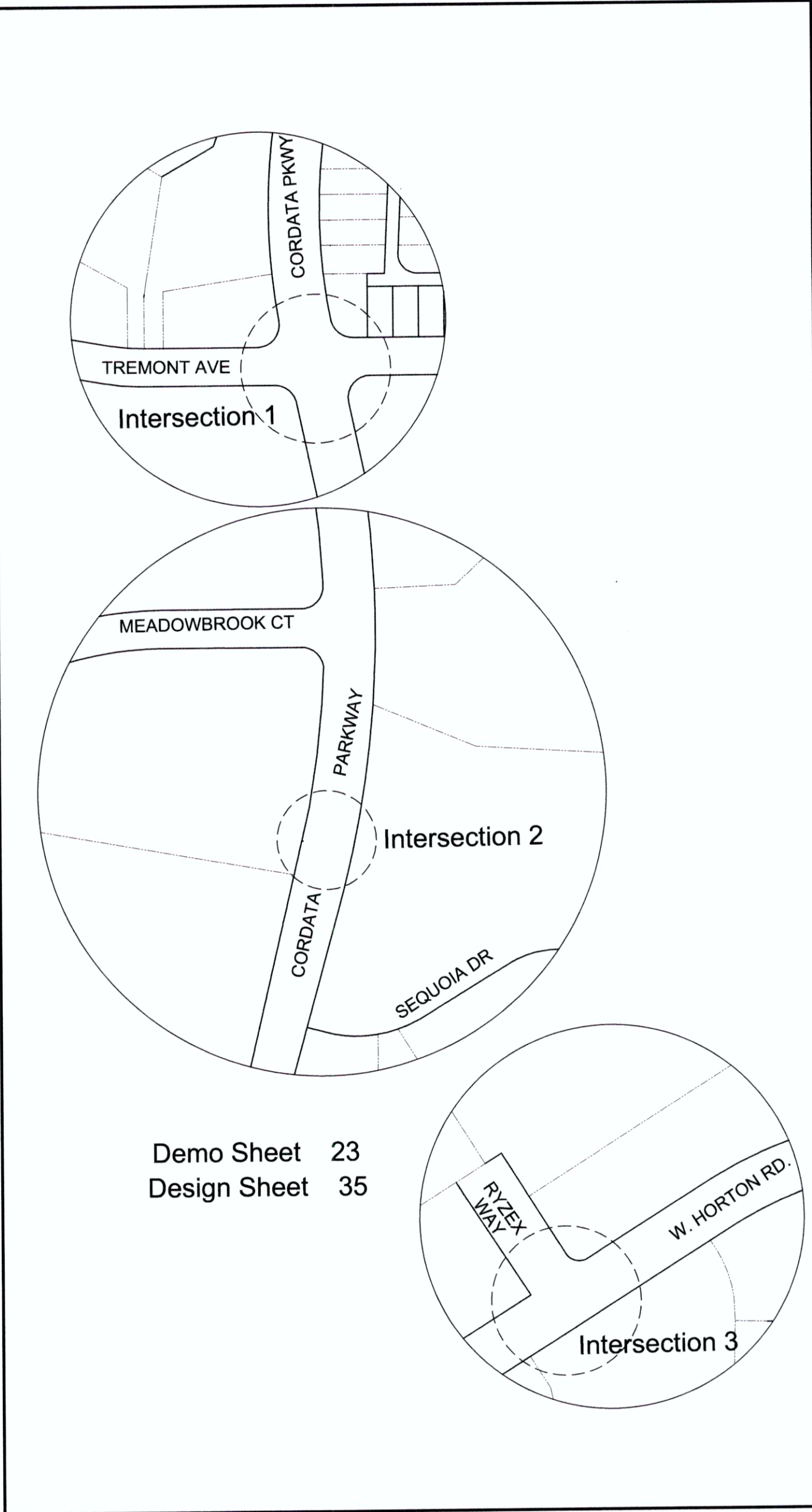
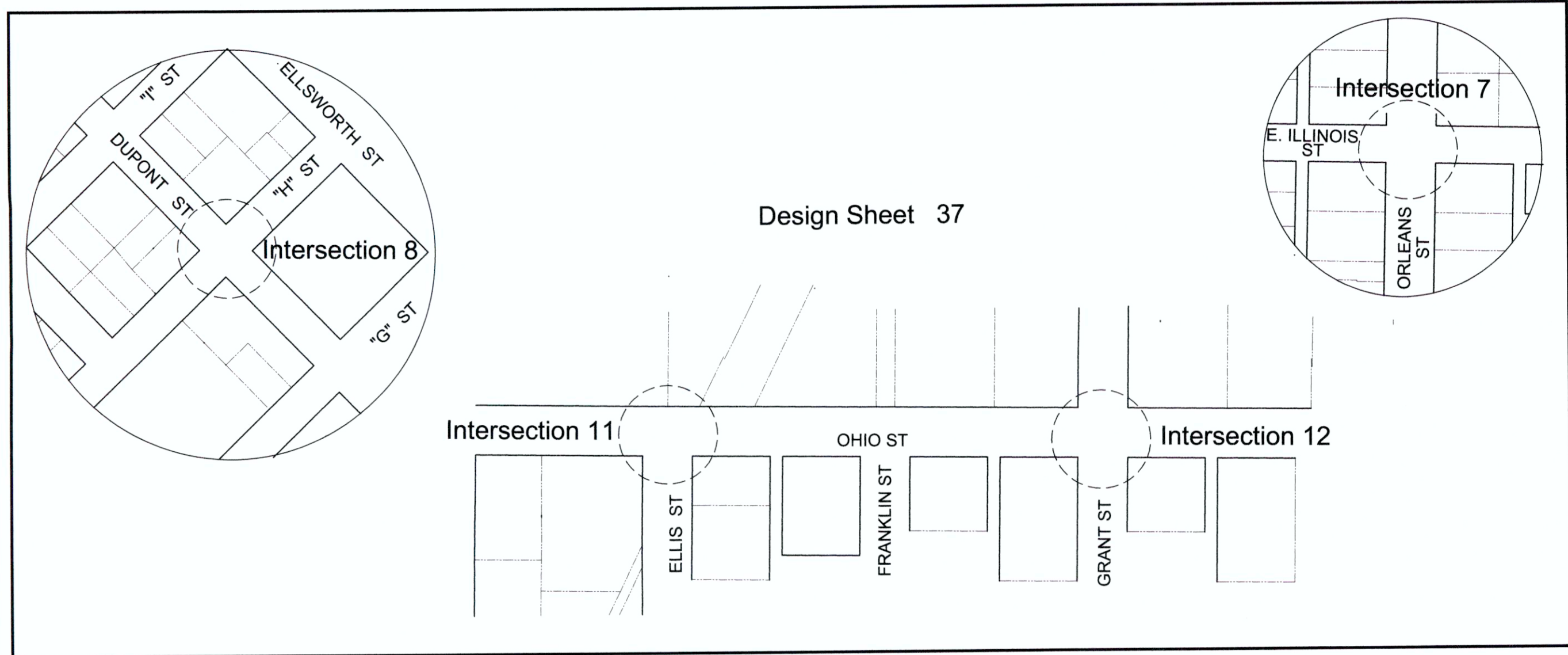
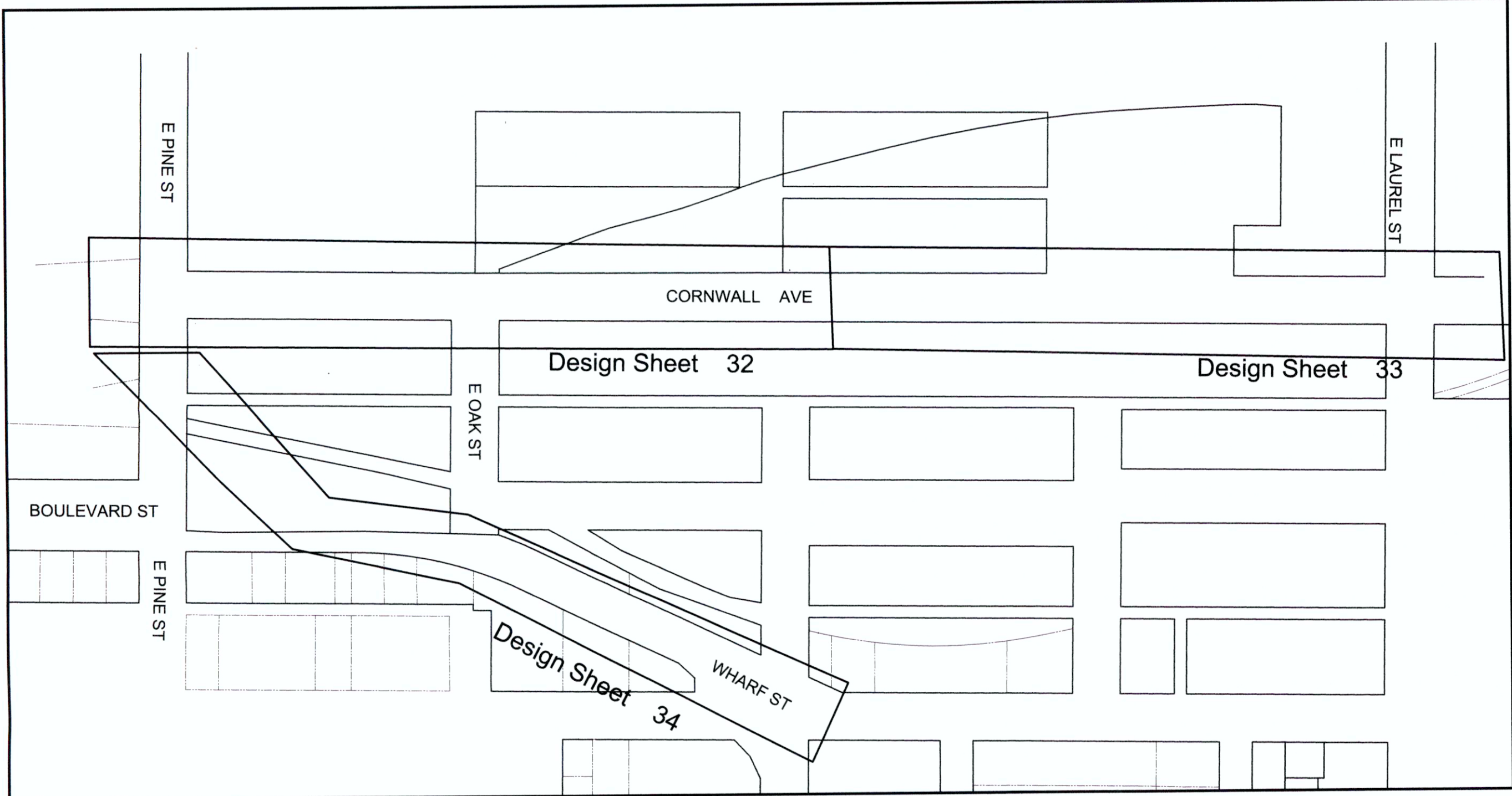
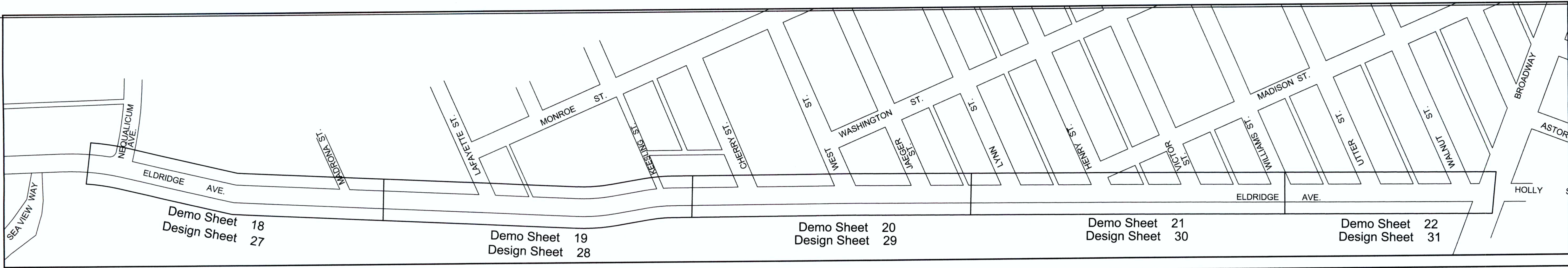
SCALE	
Horiz.	1"= 60'
Vert.	N/A

DATUM	
NAD 83/98	
NAVD 88	

Job. No.	ES563
Date	05/02/2023
Field Bk.	1068-1

WEST SIDE NON-MOTORIZED IMPROVEMENTS
SURVEY CONTROL WOBBURN ST

SHEET	OF
15	45



	4		
	3		
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	1		
Date	No	Revision	By

PROJECT ENGINEER	JJB
DESIGNED/DRAWN	ELH
INSPECTOR	DJK

DIRECTOR OF PUBLIC WORKS	E.C.J.
CITY ENGINEER	C.M.A.S.
OPERATIONS ENGINEER	M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= NA

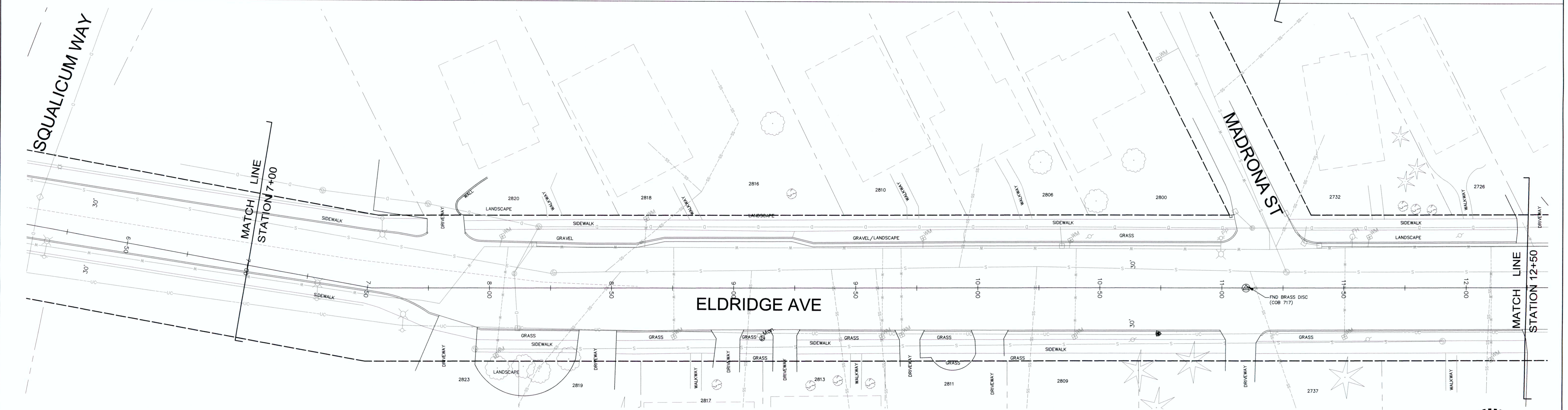
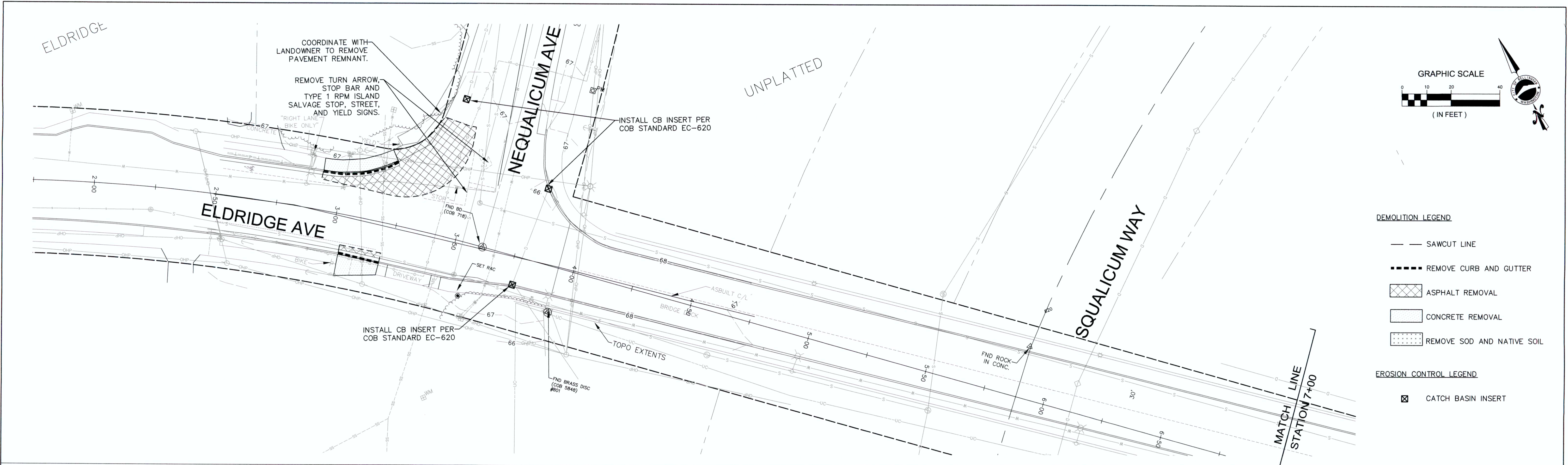
DATUM
NAD 83/98
NAVD 88

Job. No.	ES-0563
Date	02/2023
Field Bk.	FB 1068-2

WEST SIDE NON-MOTORIZED IMPROVEMENTS
PROJECT SHEET MAP

SHEET	OF
16	45

CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7923



	4		
	3		
	2		
	1		
Date	No	Revision	By

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR DJK

DIRECTOR OF PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= NA

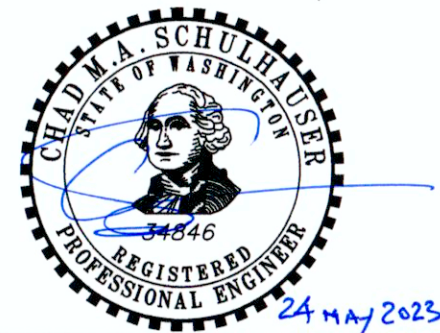
DATUM
NAD 83/98
NAVD 88

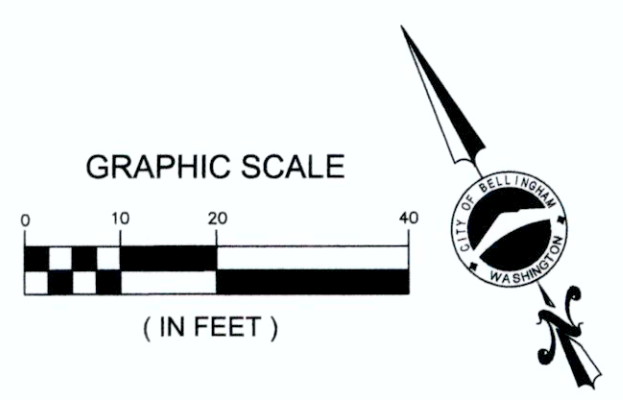
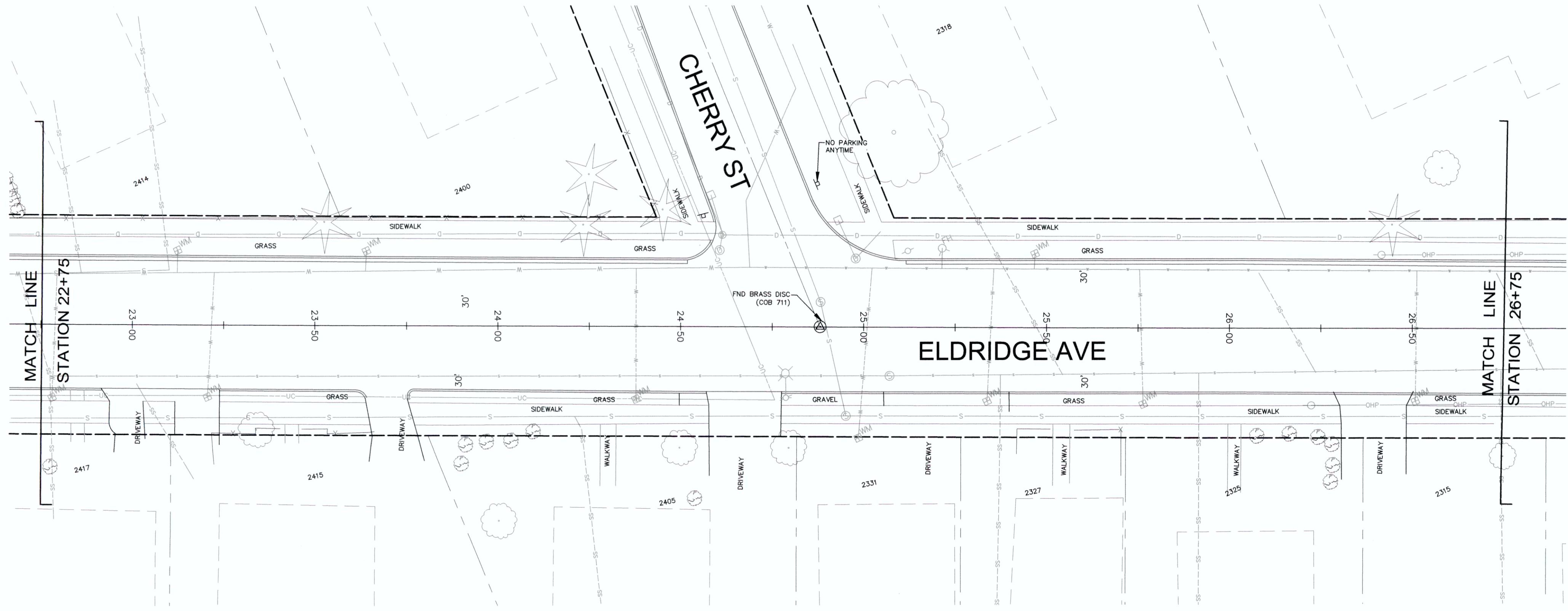
Job. No. ES-0563
Date 02/2023
Field Bk. FB 1068-2

WEST SIDE NON-MOTORIZED IMPROVEMENTS
DEMO & TESC PLAN ELDRIDGE AVE. STA: 2+50 TO 12+50

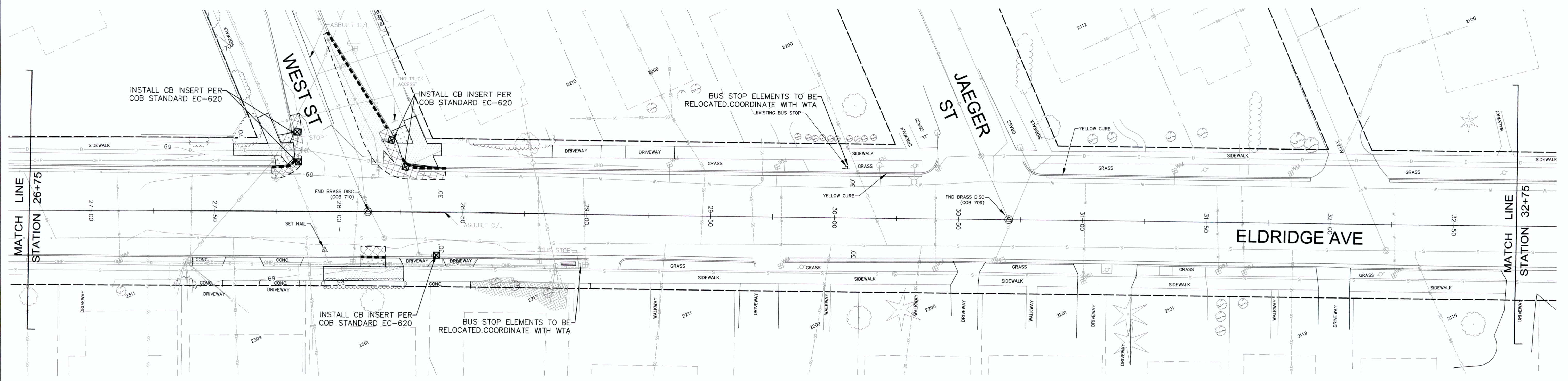
SHEET 18 OF 45

CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7923





- DEMOLITION LEGEND**
- SAWCUT LINE
 - REMOVE CURB AND GUTTER
 - ▨ ASPHALT REMOVAL
 - ▤ CONCRETE REMOVAL
 - ▧ REMOVE SOD AND NATIVE SOIL
- EROSION CONTROL LEGEND**
- ☒ CATCH BASIN INSERT



Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR DJK

DIRECTOR OF PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= NA

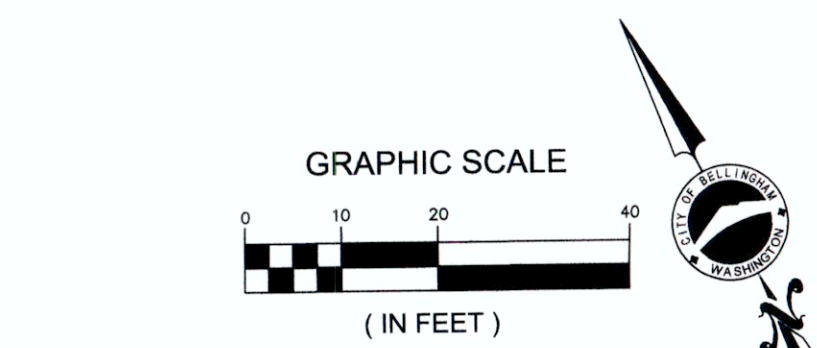
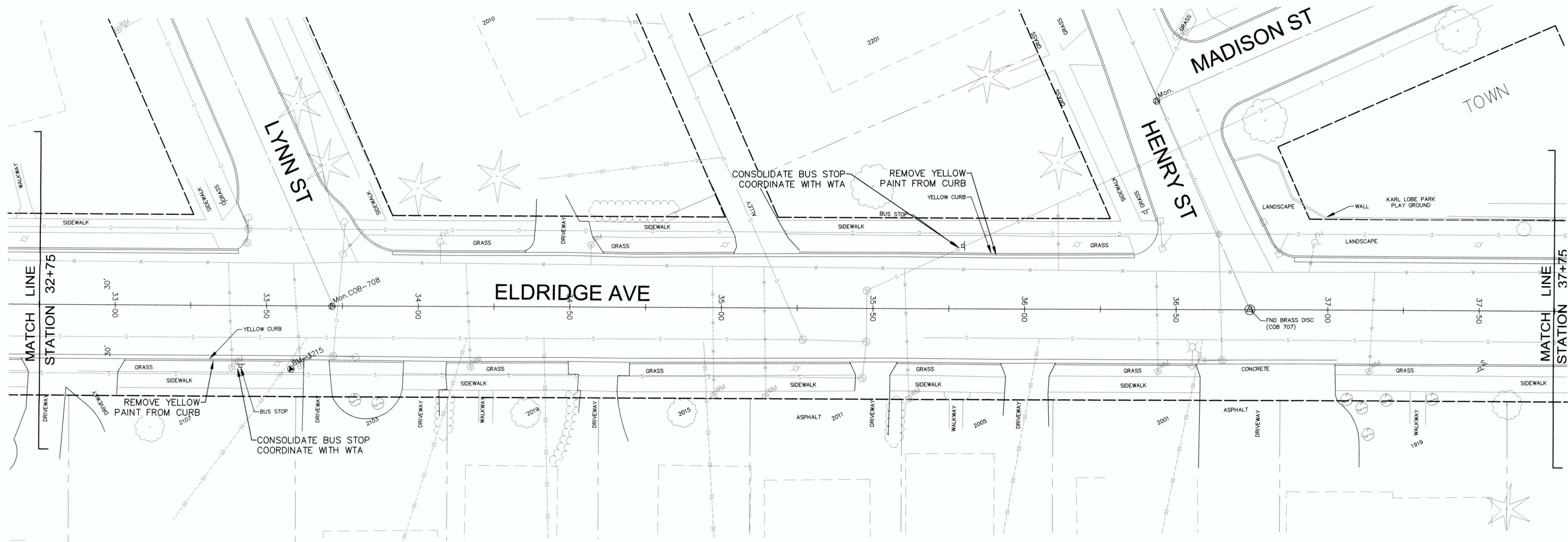
DATUM
NAD 83/98
NAVD 88

Job. No. ES-0563
Date 02/2023
Field Bk. FB 1068-2

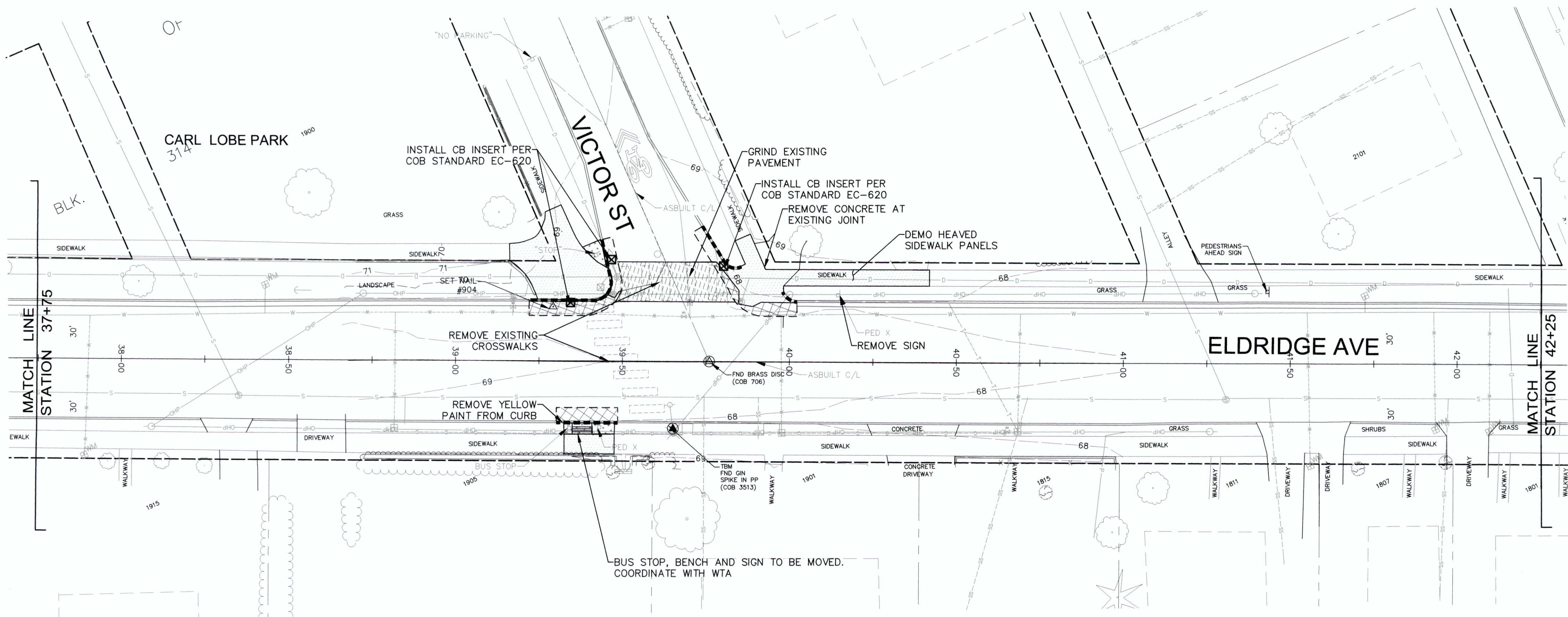
WEST SIDE NON-MOTORIZED IMPROVEMENTS
DEMO & TESC PLAN ELDRIDGE AVE. STA: 22+75 to 32+75

SHEET 20 OF 45

CONTACT PERSON: JESSICA BENNETT, P.E. , PROJECT ENGINEER AT 778-7923



- DEMOLITION LEGEND**
- SAWCUT LINE
 - REMOVE CURB AND GUTTER
 - ▨ ASPHALT REMOVAL
 - ▤ CONCRETE REMOVAL
 - ▧ REMOVE SOD AND NATIVE SOIL
- EROSION CONTROL LEGEND**
- ☒ CATCH BASIN INSERT



	4	
	3	
	2	
	1	
Date	No	Revision

PROJECT ENGINEER	JJB
DESIGNED/DRAWN	ELH
INSPECTOR	DJK

DIRECTOR OF PUBLIC WORKS	E.C.J.
CITY ENGINEER	C.M.A.S.
OPERATIONS ENGINEER	M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= NA

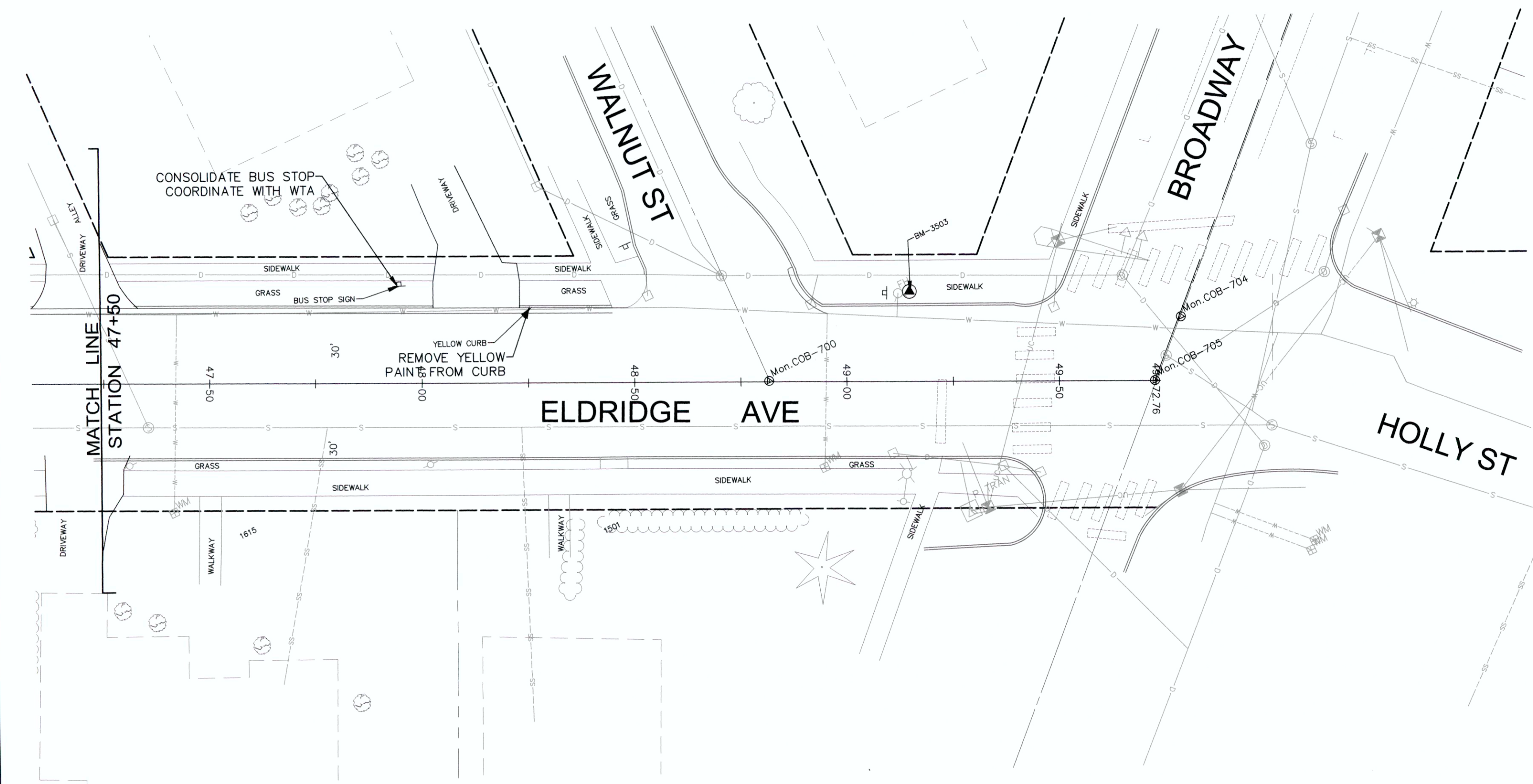
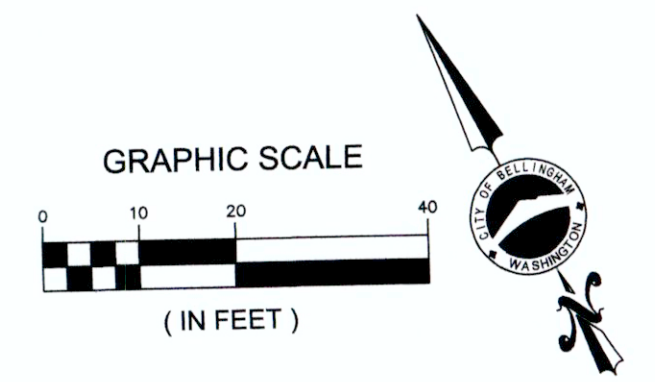
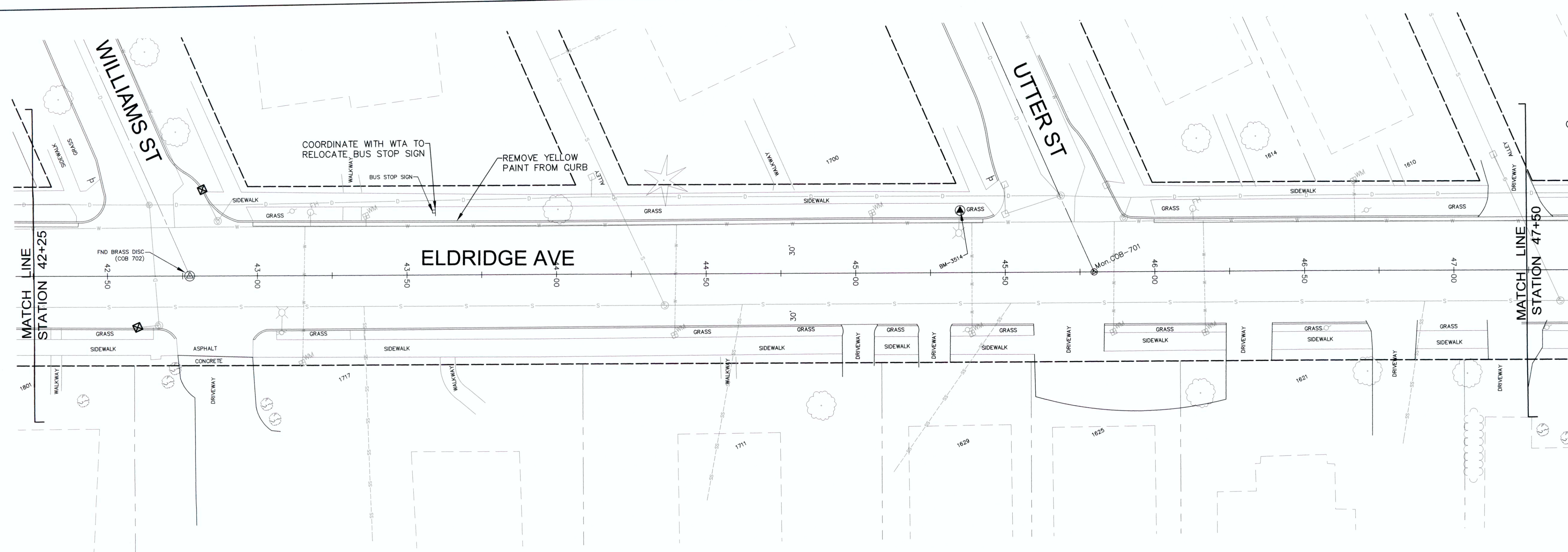
DATUM
NAD 83/98
NAVD 88

Job. No.	ES-0563
Date	02/2023
Field Bk.	FB 1068-2

WEST SIDE NON-MOTORIZED IMPROVEMENTS
DEMO & TESC PLAN ELDRIDGE AVE. STA: 32+75 to 42+25

SHEET	OF
21	45

CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7923



- DEMOLITION LEGEND**
- SAWCUT LINE
 - REMOVE CURB AND GUTTER
 - ▨ ASPHALT REMOVAL
 - ▤ CONCRETE REMOVAL
 - ▧ REMOVE SOD AND NATIVE SOIL
- EROSION CONTROL LEGEND**
- ☒ CATCH BASIN INSERT

<div><div><div>4</div><div>3</div><div>2</div><div>1</div></div><div>Date</div><div>No</div><div>Revision</div><div>By</div></div>		<div>PROJECT ENGINEER JJB</div> <div>DESIGNED/DRAWN ELH</div> <div>INSPECTOR DJK</div>	<div>DIRECTOR OF PUBLIC WORKS E.C.J.</div> <div>CITY ENGINEER C.M.A.S.</div> <div>OPERATIONS ENGINEER M.A.O.</div>	<div>CITY OF BELLINGHAM, WASHINGTON</div> <div>PUBLIC WORKS DEPARTMENT</div> <div>ENGINEERING DIVISION</div>	<div>SCALE</div> <div>Horiz. 1"= 20'</div> <div>Vert. 1"= NA</div>	<div>DATUM</div> <div>NAD 83/98</div> <div>NAVD 88</div>	<div>Job. No. ES-0563</div> <div>Date 02/2023</div> <div>Field Bk. FB 1068-2</div>	<div>WEST SIDE NON-MOTORIZED IMPROVEMENTS</div> <div>DEMO & TESC PLAN ELDRIDGE AVE. STA: 42+25 TO 50+00</div>	<div>SHEET 22 OF 45</div>
<div>CONTACT PERSON: JESSICA BENNETT, P.E. , PROJECT ENGINEER AT 778-7923</div>									

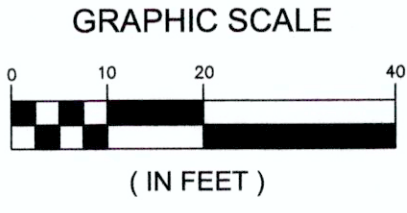
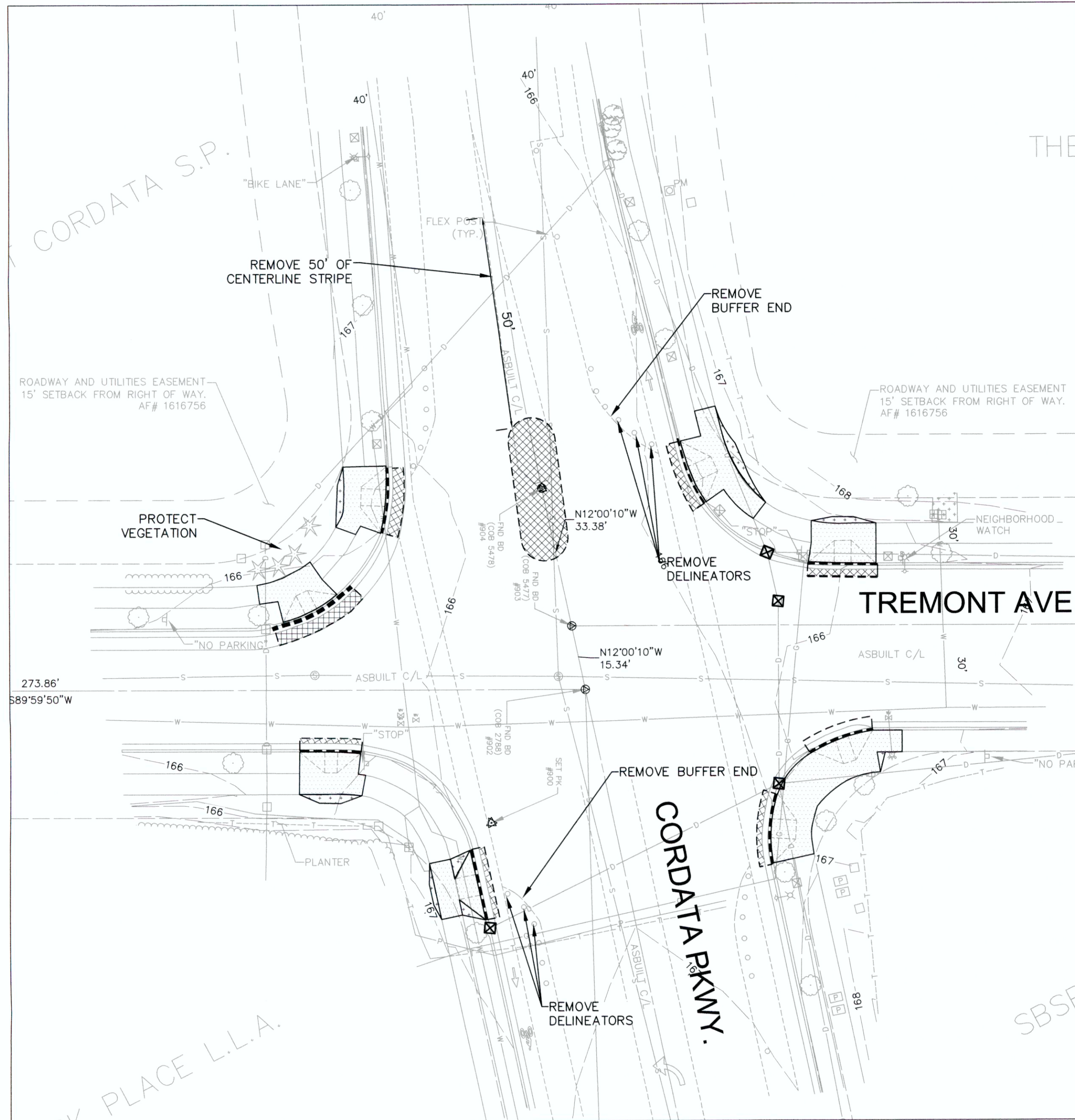
CHAM A. SCHULHOFER

CITY OF BELLINGHAM

34846

REGISTERED PROFESSIONAL ENGINEER

24 MAY 2023

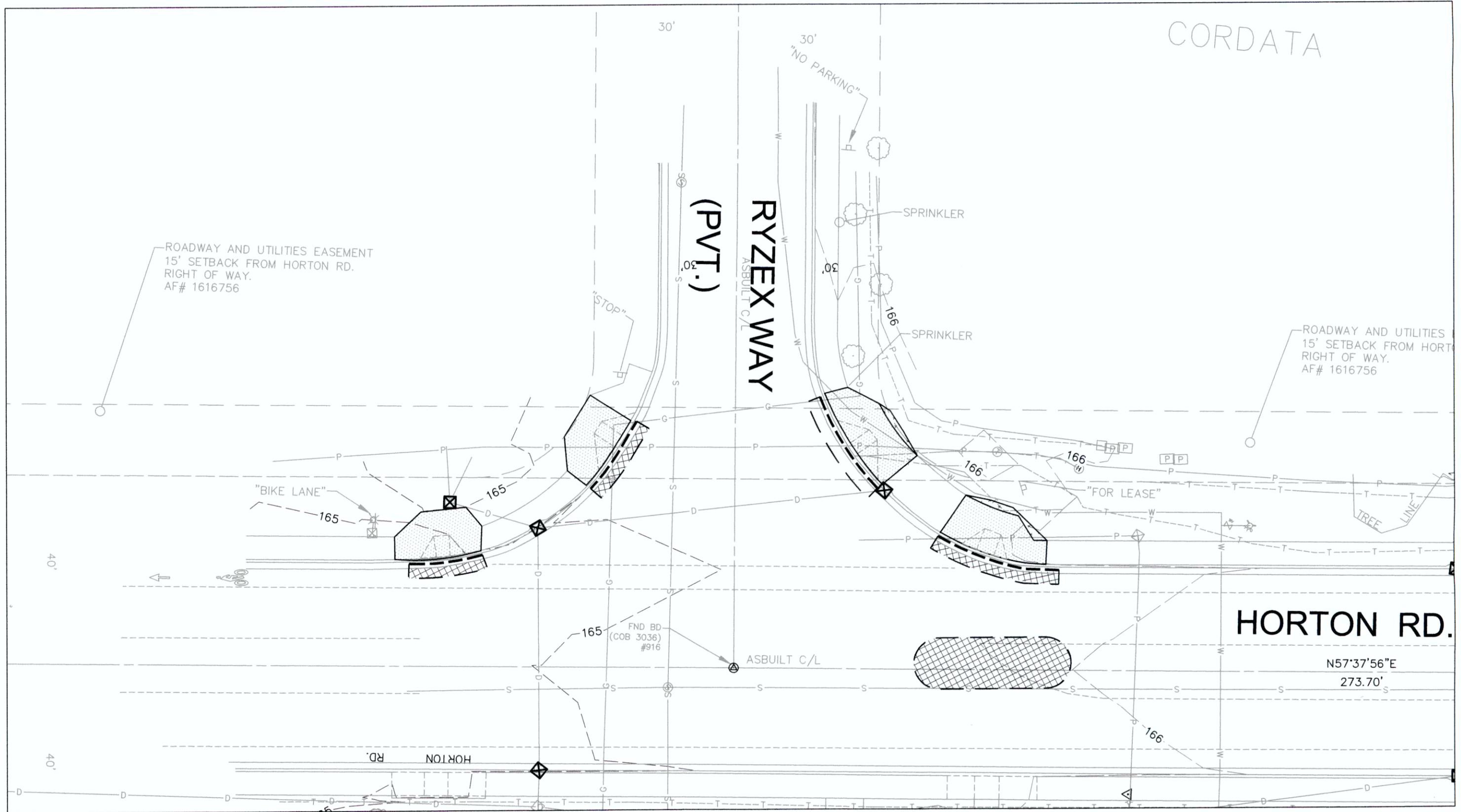
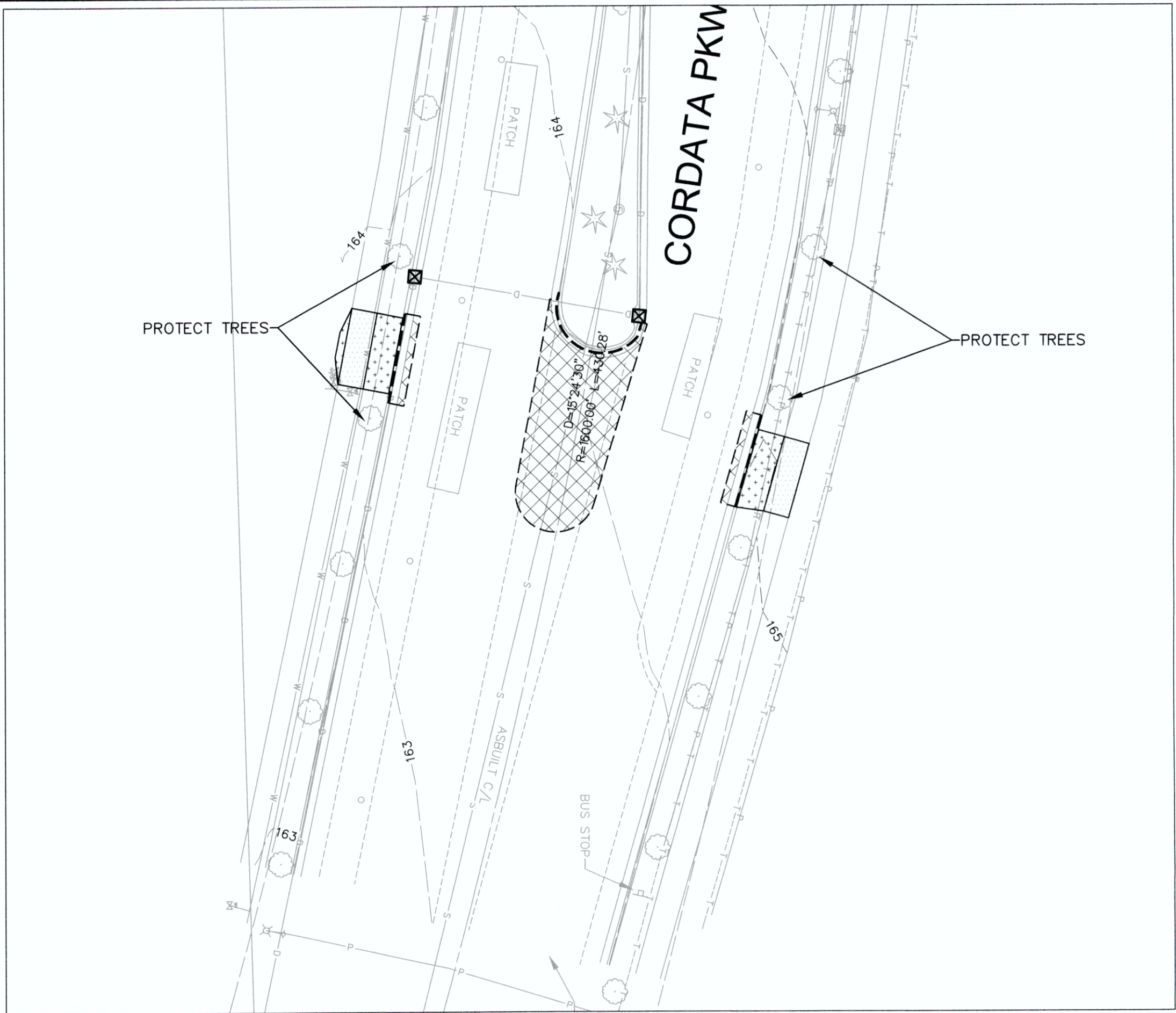


DEMOLITION LEGEND

- SAWCUT LINE
- REMOVE CURB AND GUTTER
- ▨ ASPHALT REMOVAL
- ▤ CONCRETE REMOVAL
- ▥ CLEARING AND GRUBBING

EROSION CONTROL LEGEND

- ☒ CATCH BASIN INSERT



	4		
	3		
	2		
	1		
Date	No	Revision	By

PROJECT ENGINEER	JJB
DESIGNED/DRAWN	ELH
INSPECTOR	DJK

DIRECTOR OF PUBLIC WORKS	E.C.J.
CITY ENGINEER	C.A.M.S.
OPERATIONS ENGINEER	M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE	
Horiz.	1"= 20'
Vert.	1"= NA

DATUM	
NAD 83/98	
NAVD 88	

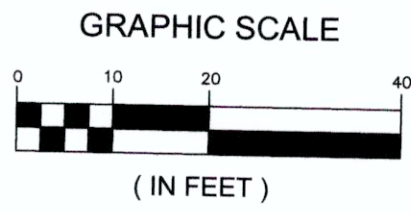
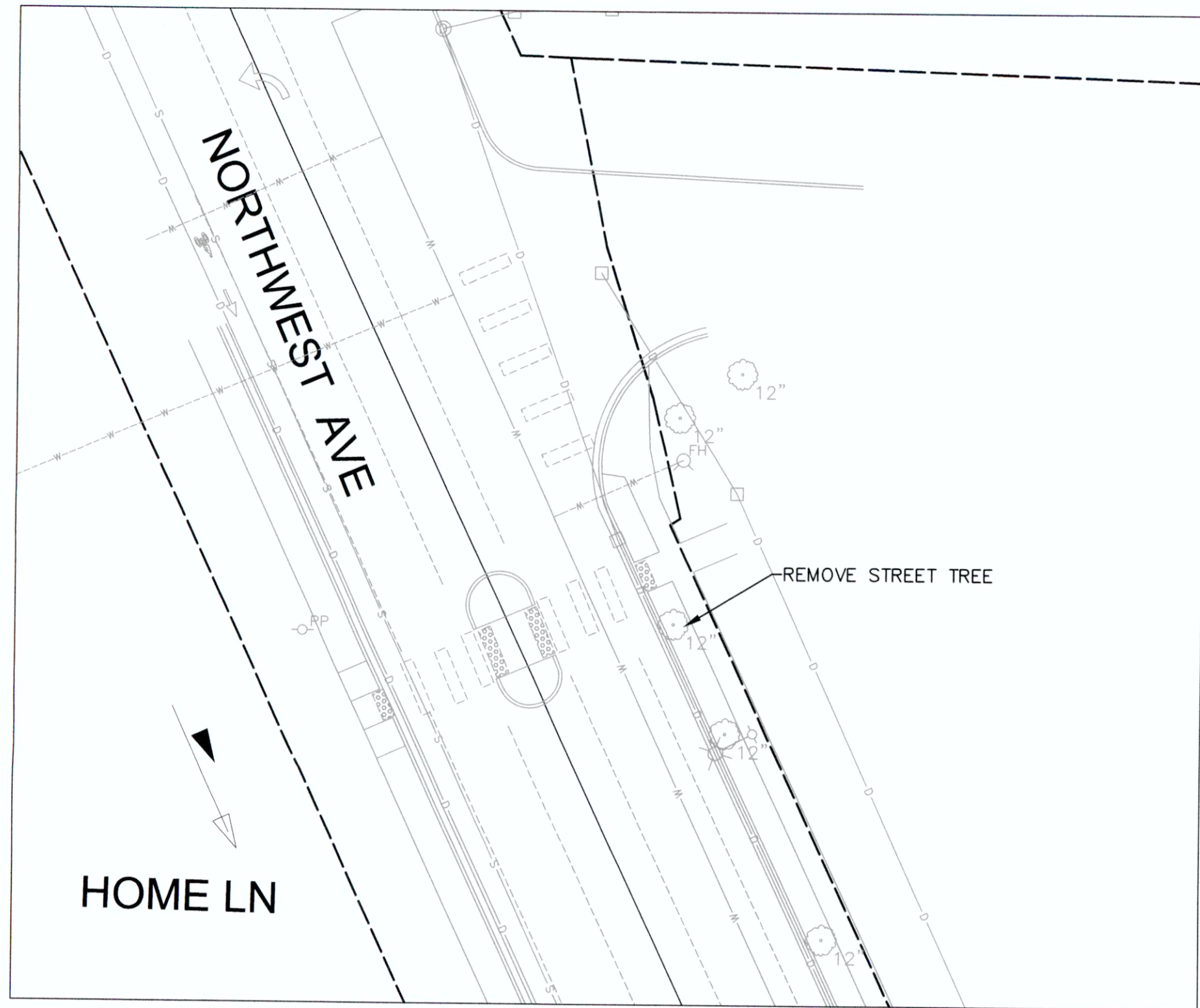
Job. No.	ES-0563
Date	02/2023
Field Bk.	FB 1068-2

WEST SIDE NON-MOTORIZED IMPROVEMENTS
DEMO AND SWPPP INTERSECTIONS 1, 2, 3

SHEET	23	OF	45
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CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7923



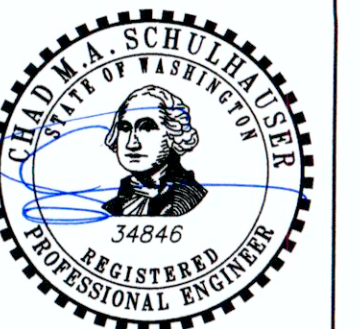
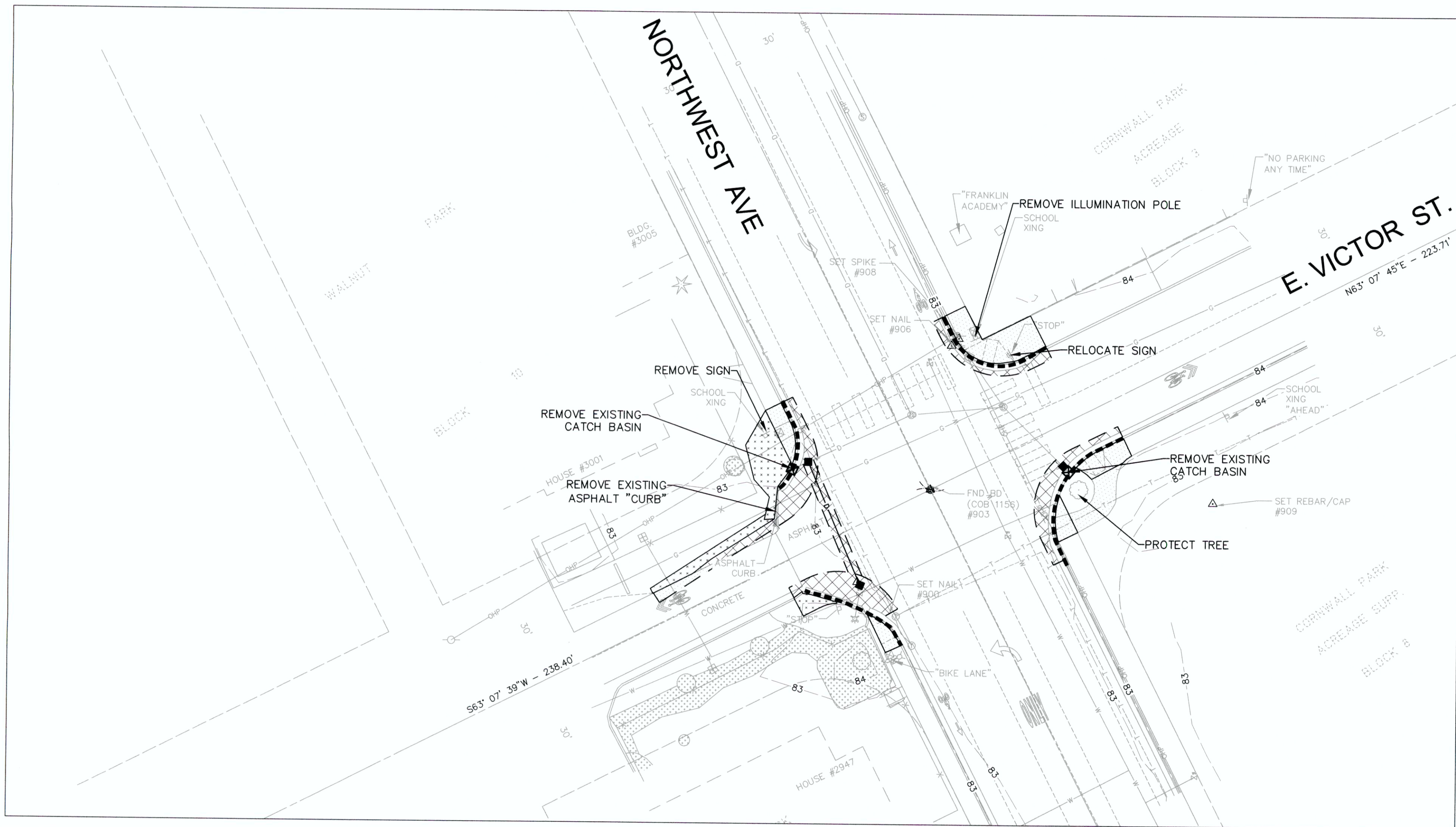
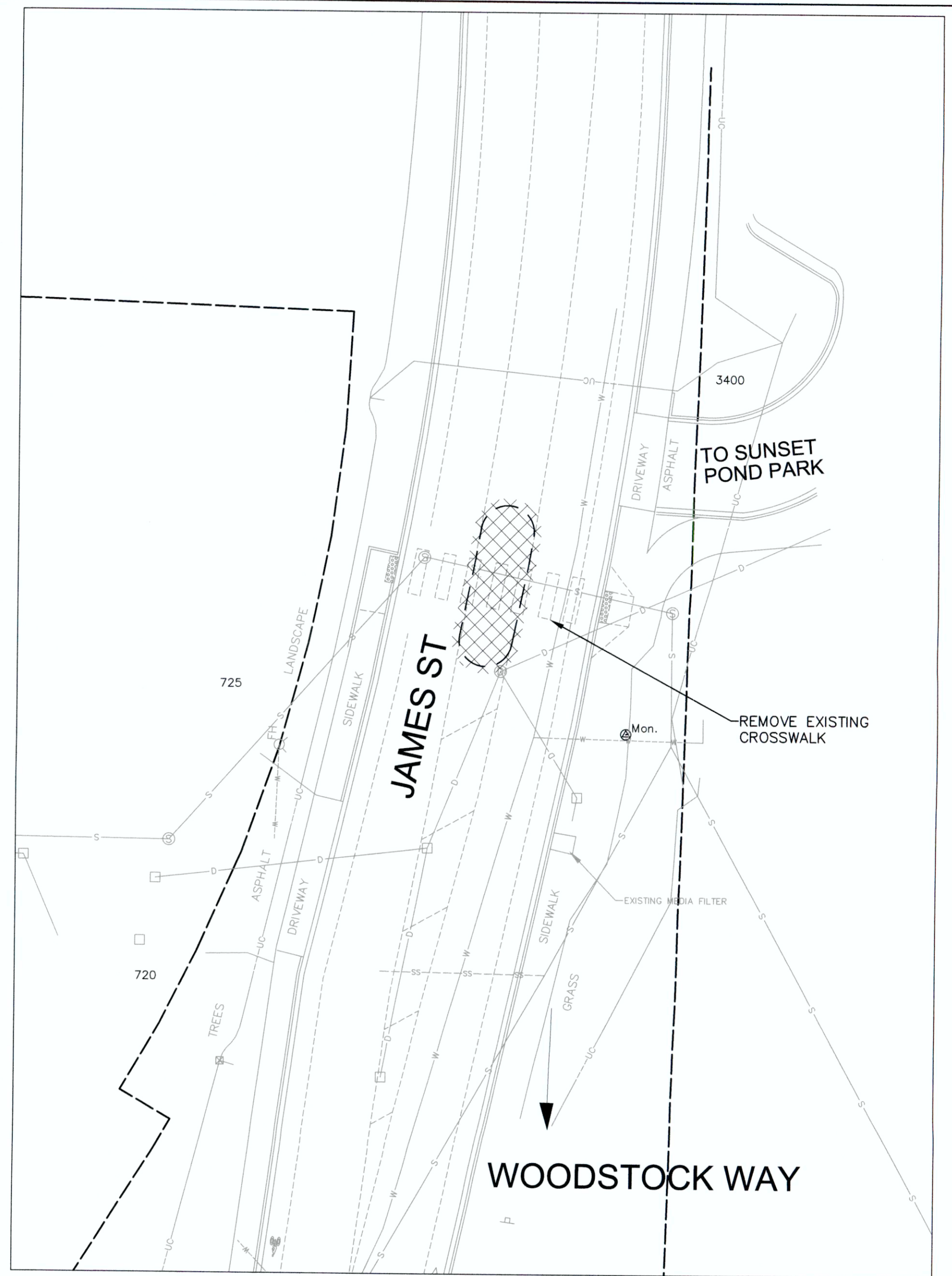


DEMOLITION LEGEND

- SAWCUT LINE
- REMOVE CURB AND GUTTER
- ▨ ASPHALT REMOVAL
- ▤ CONCRETE REMOVAL
- ▧ CLEARING AND GRUBBING

EROSION CONTROL LEGEND

- ☒ CATCH BASIN INSERT



4			
3			
2			
1			
Date	No	Revision	By

PROJECT ENGINEER JJB
 DESIGNED/DRAWN ELH
 INSPECTOR DJK

DIRECTOR OF PUBLIC WORKS E.C.J.
 CITY ENGINEER C.A.M.S.
 OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

SCALE
 Horiz. 1"= 20'
 Vert. 1"= NA

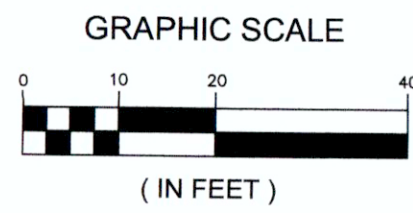
DATUM
 NAD 83/98
 NAVD 88

Job. No. ES-0563
 Date 02/2023
 Field Bk. FB 1068-2

WEST SIDE NON-MOTORIZED IMPROVEMENTS
DEMO & TESC INTERSECTIONS 4, 5, & 6

SHEET
 24 OF
 45

CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7923

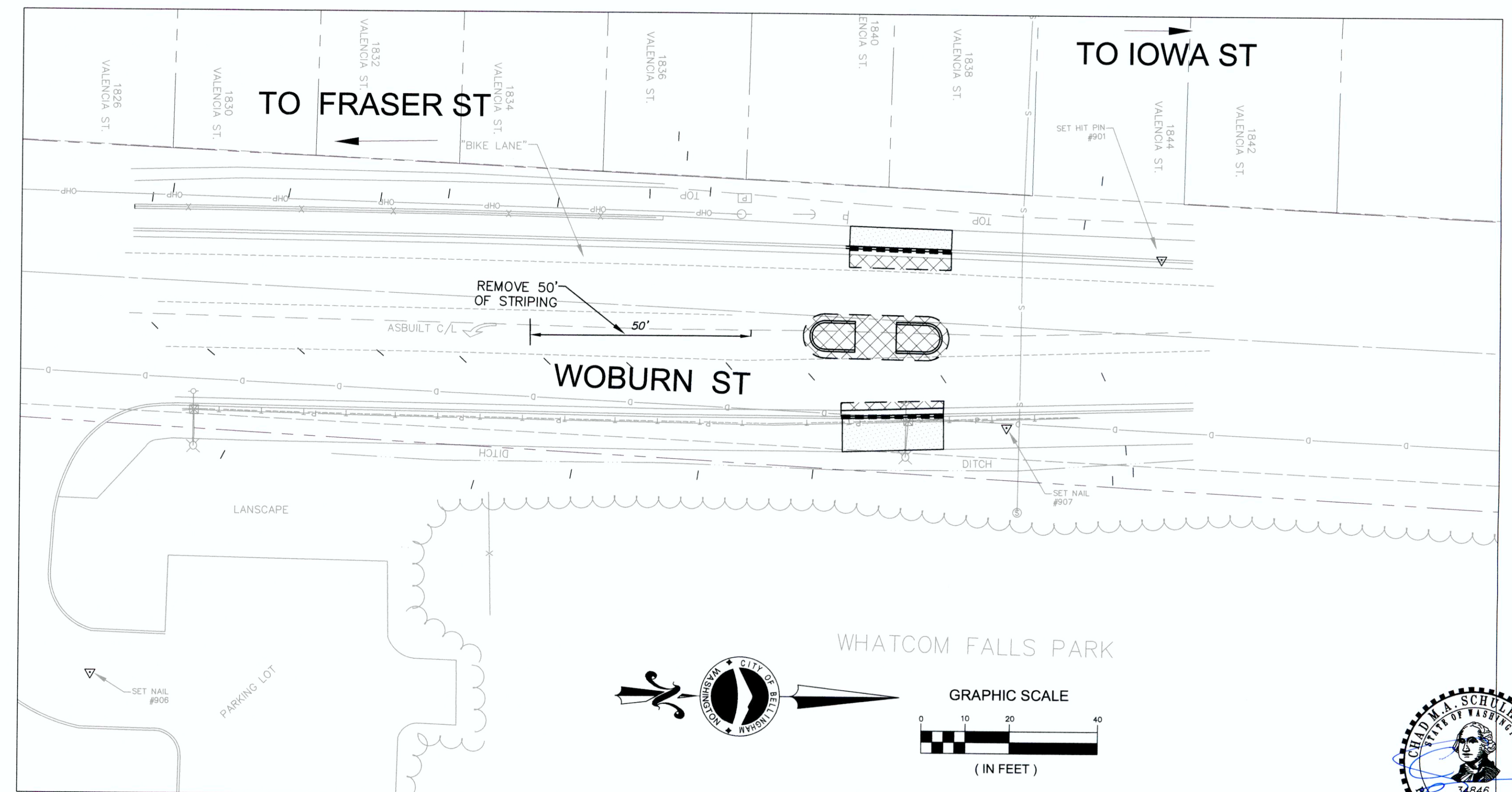
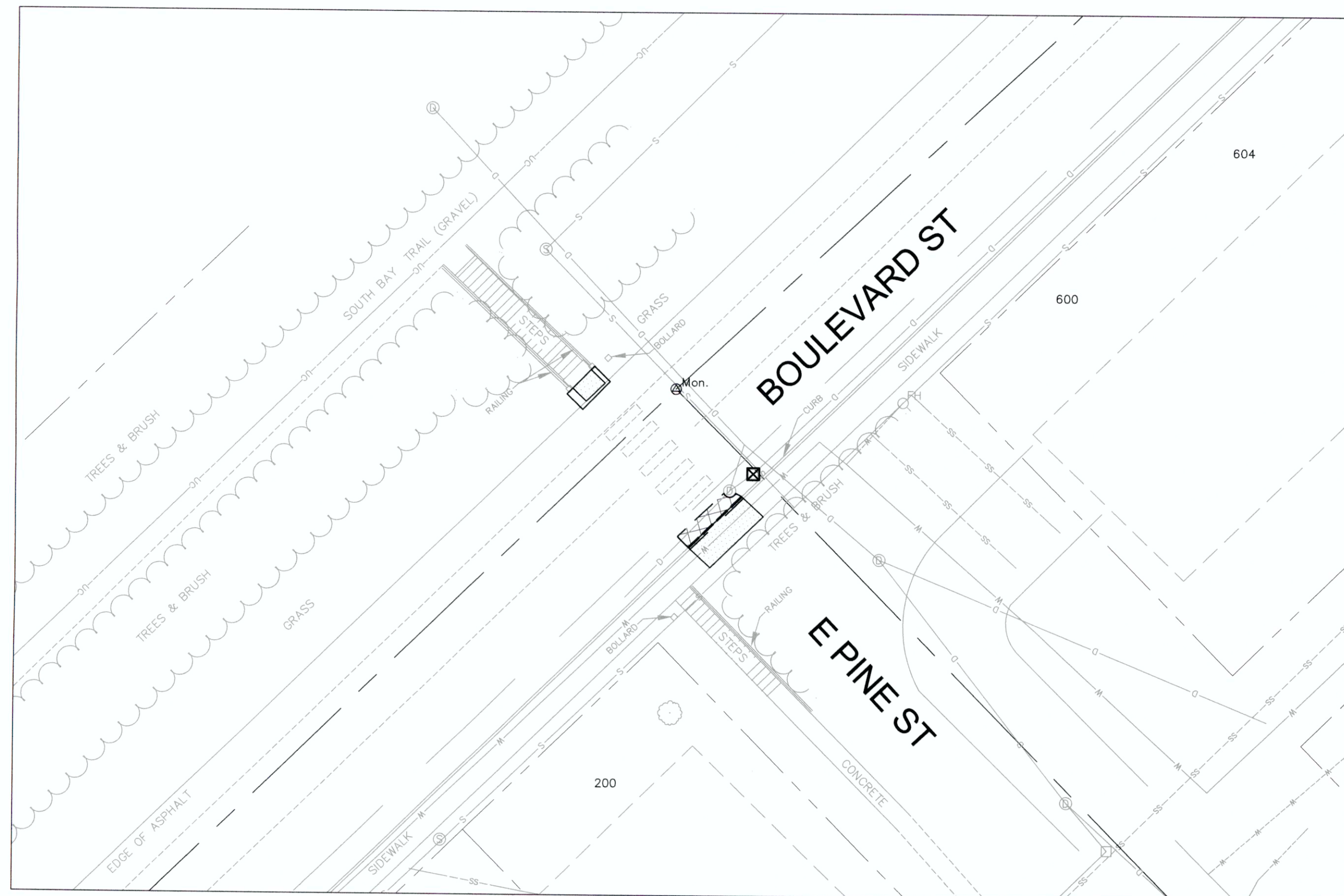
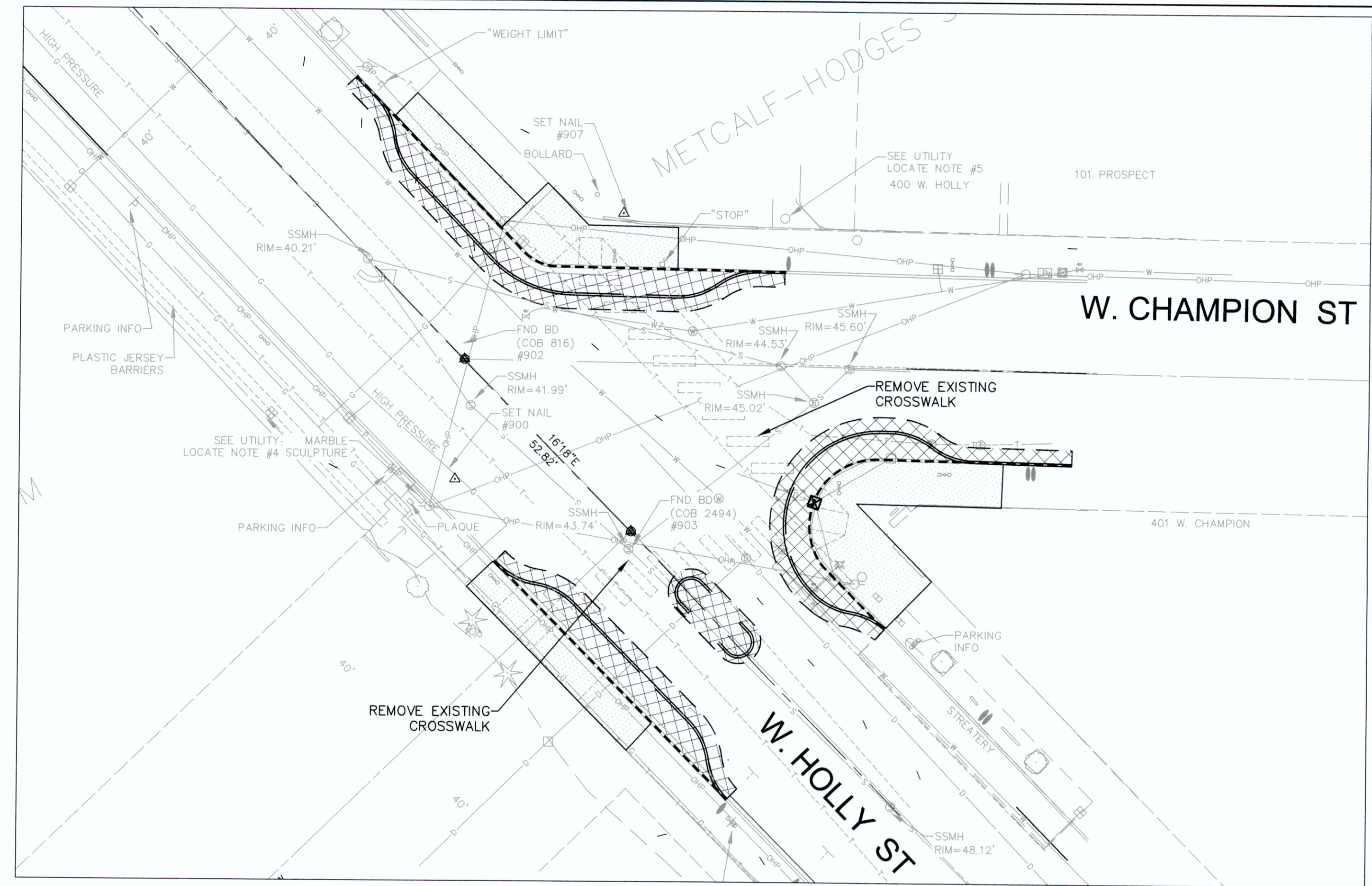


DEMOLITION LEGEND

- SAWCUT LINE
- REMOVE CURB AND GUTTER
- ▨ ASPHALT REMOVAL
- ▤ CONCRETE REMOVAL
- ▥ CLEARING AND GRUBBING

EROSION CONTROL LEGEND

- ☒ CATCH BASIN INSERT



4			
3			
2			
1			
Date	No	Revision	By

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR ?

DIRECTOR OF PUBLIC WORKS E.C.J.
CITY ENGINEER C.A.M.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= NA

DATUM
NAD 83/98
NAVD 88

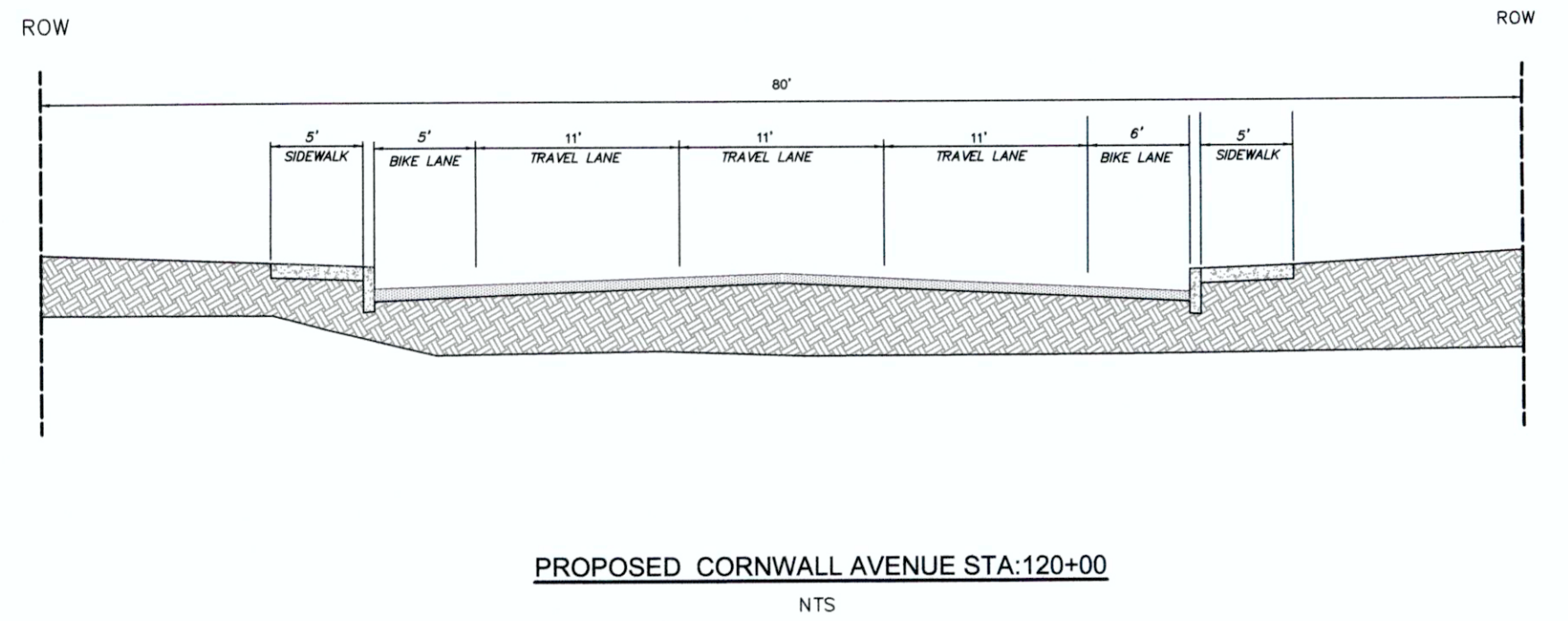
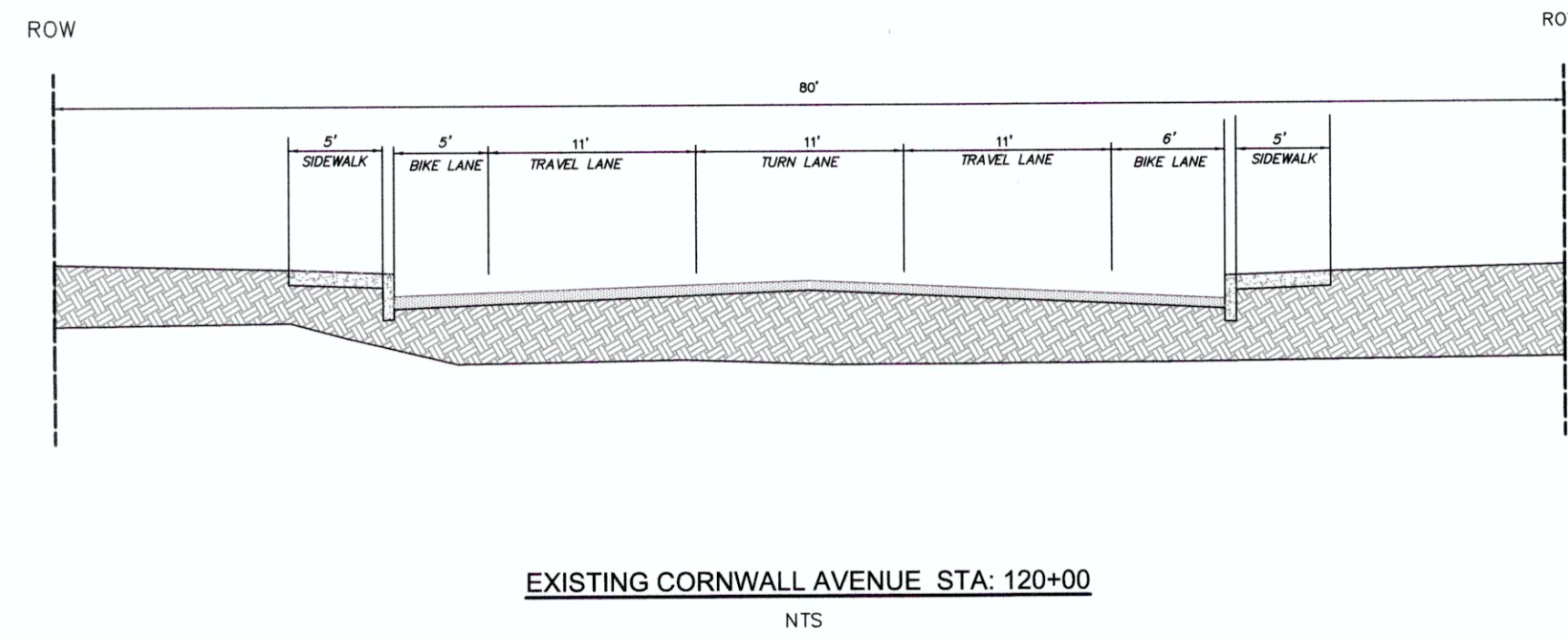
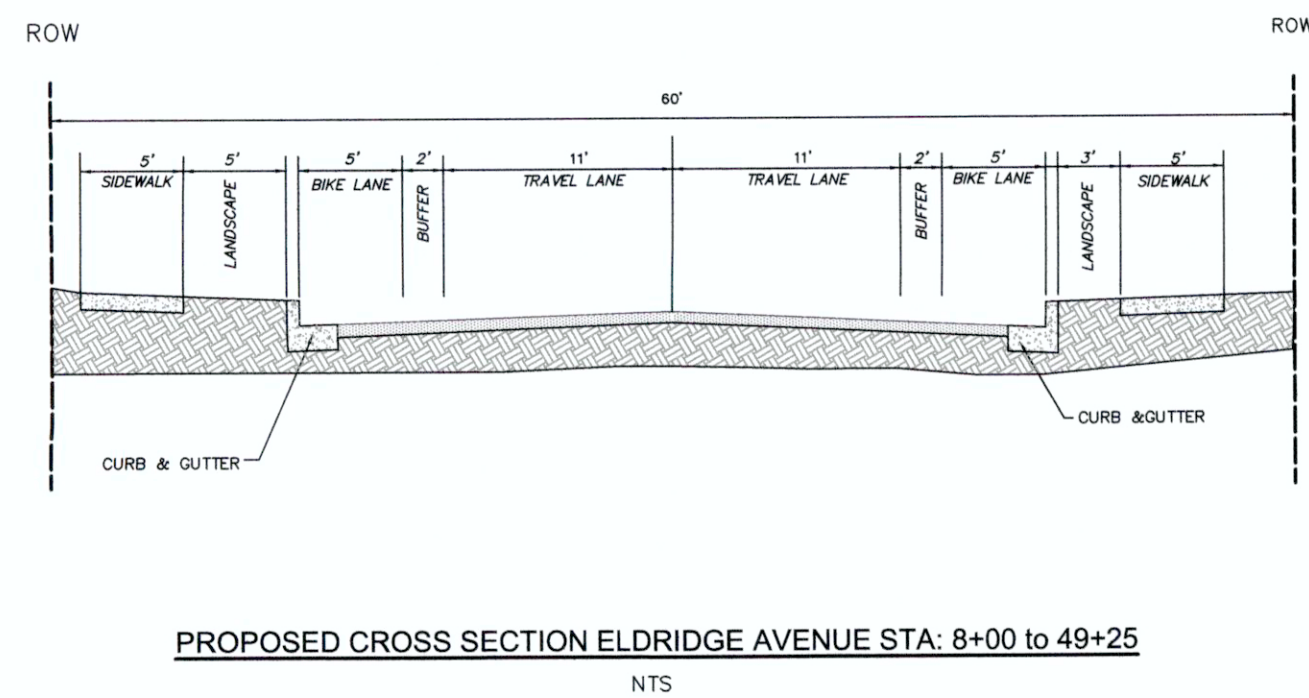
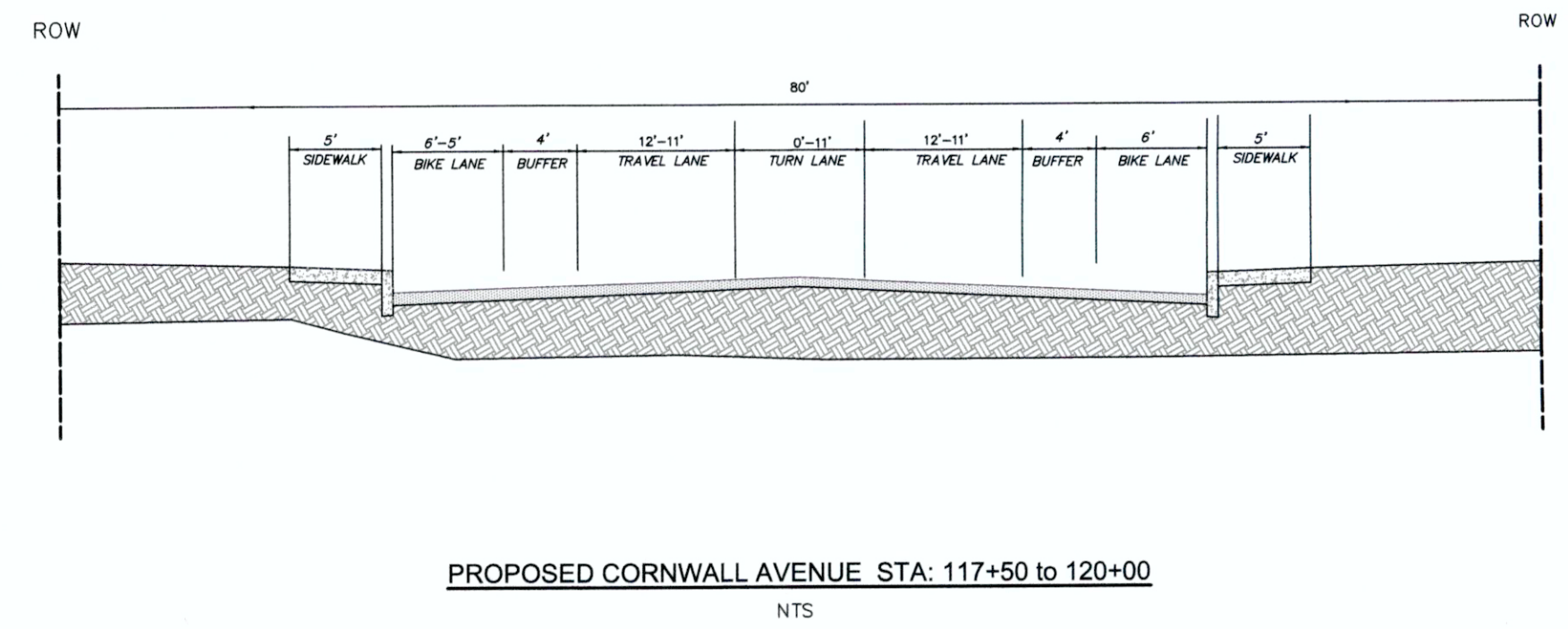
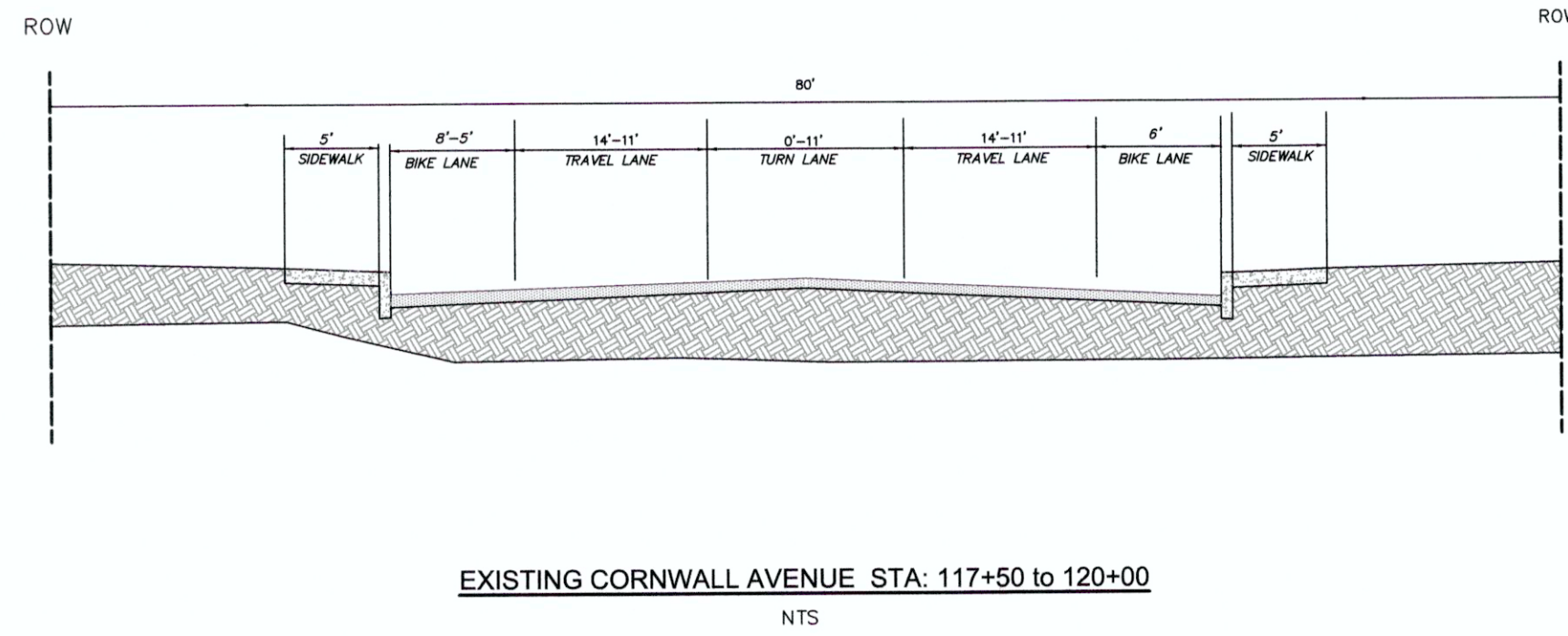
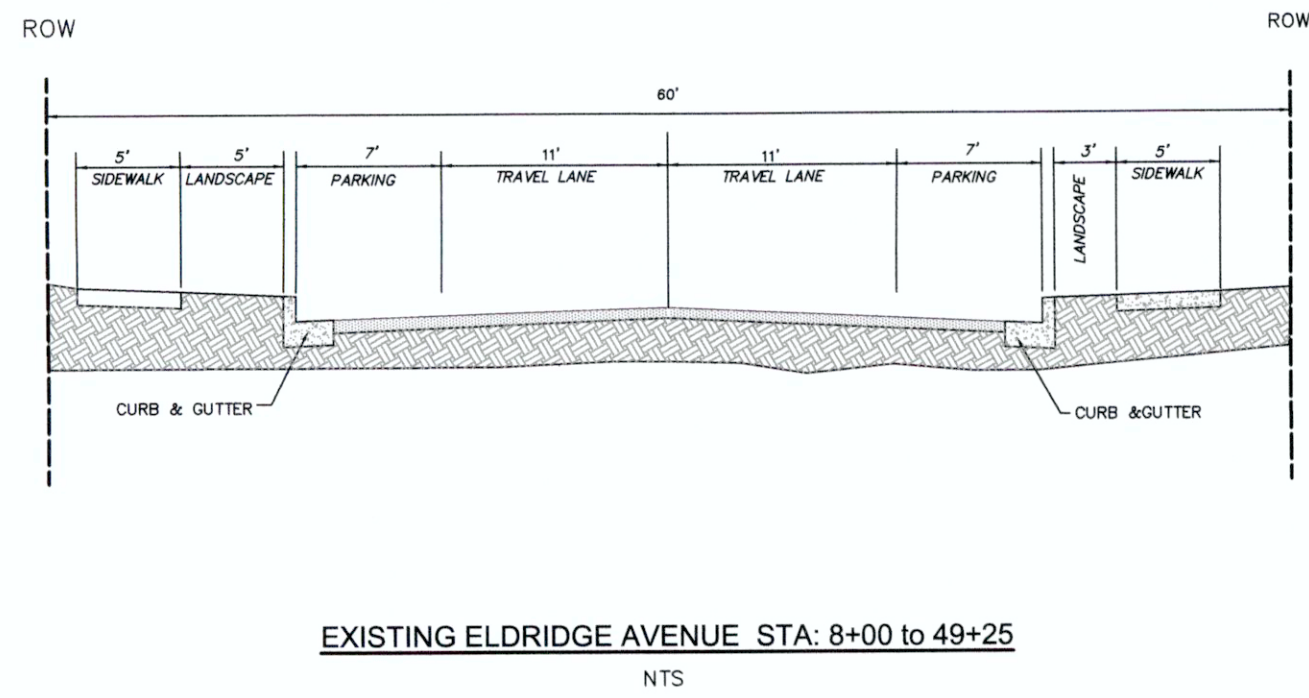
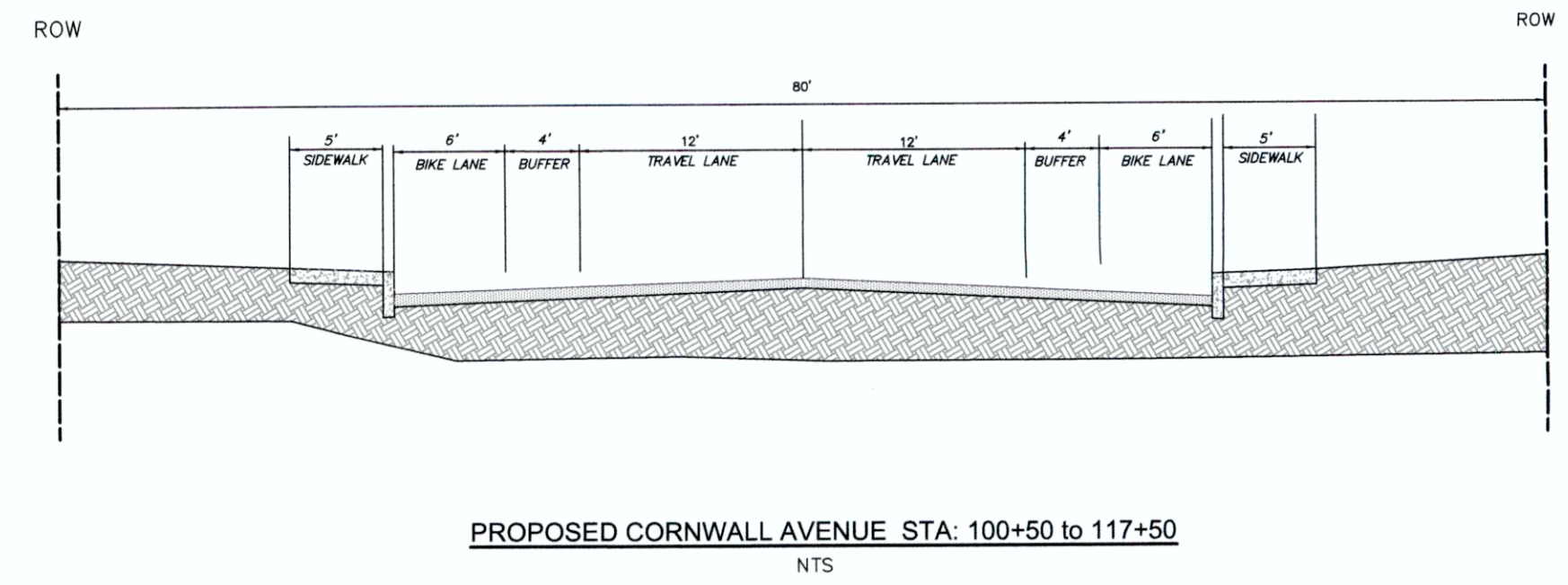
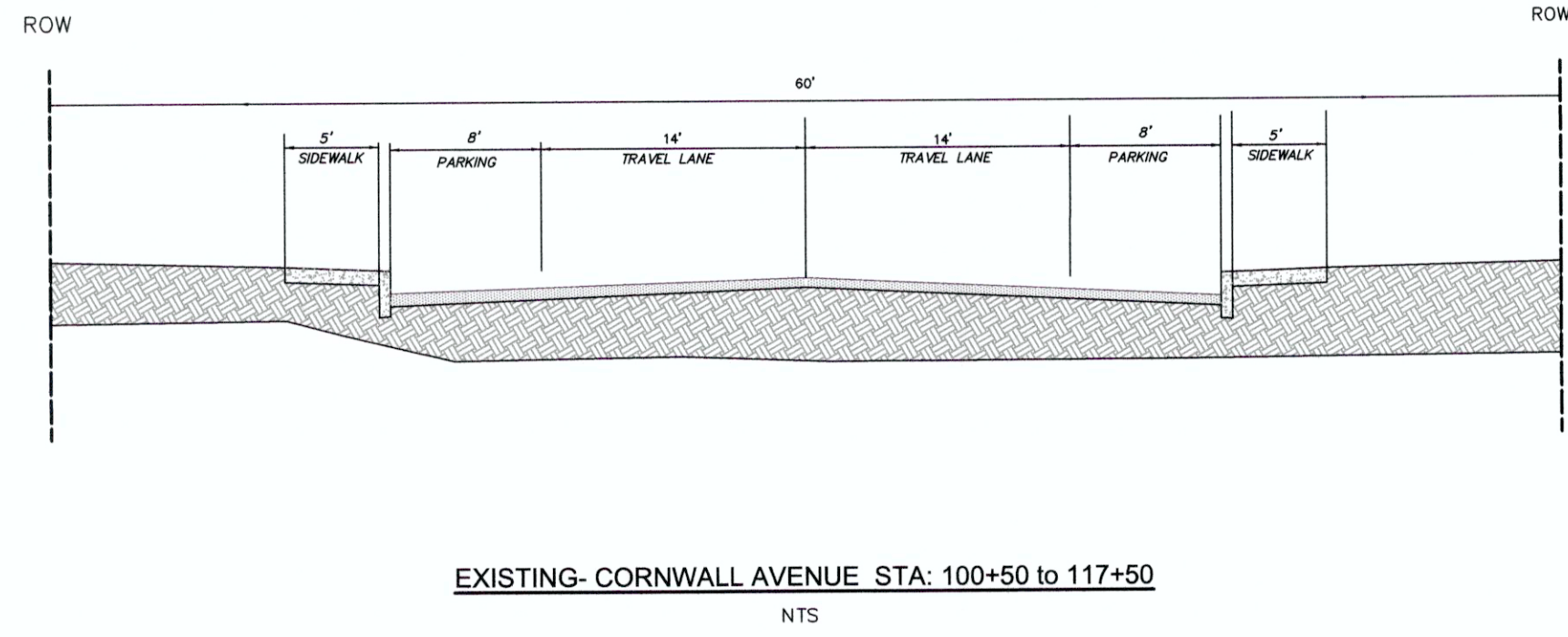
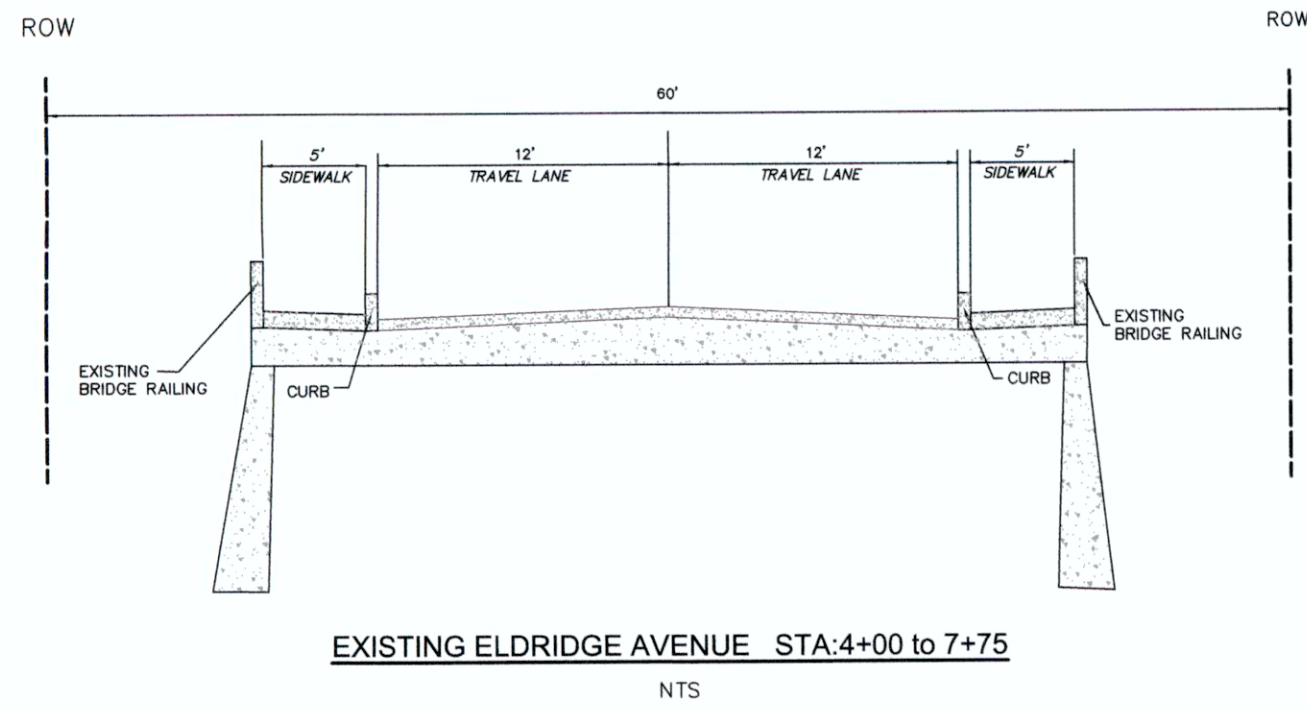
Job. No. ES-0563
Date 02/2023
Field Bk. FB

WESTSIDE NON MOTORIZED IMPROVEMENTS
DEMO & TESC INTERSECTIONS 9, 10, & 13

SHEET
25 OF
45

CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7900





	4		
	3		
	2		
Date	1	Revision	By

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR DJK

DIRECTOR OF PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= NA

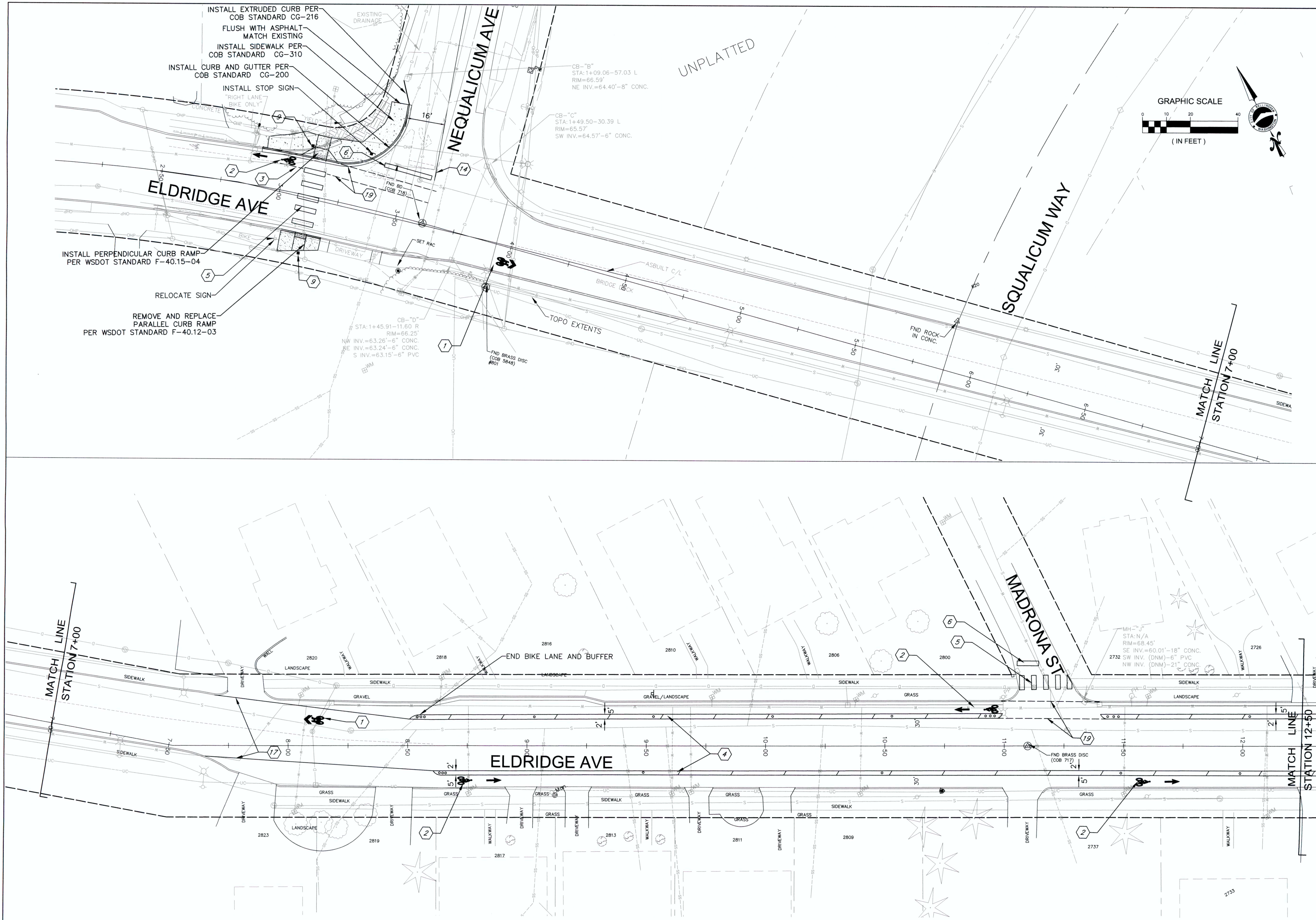
DATUM
NAD 83/98
NAVD 88

Job. No. ES-0563
Date 02/2023
Field Bk. FB

WEST SIDE NON-MOTORIZED IMPROVEMENTS
TYPICAL SECTIONS EXISTING AND PROPOSED

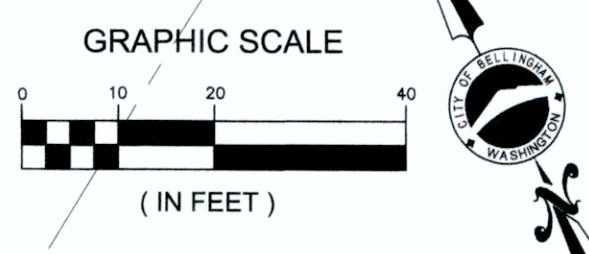
SHEET 26 OF 45

CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7923



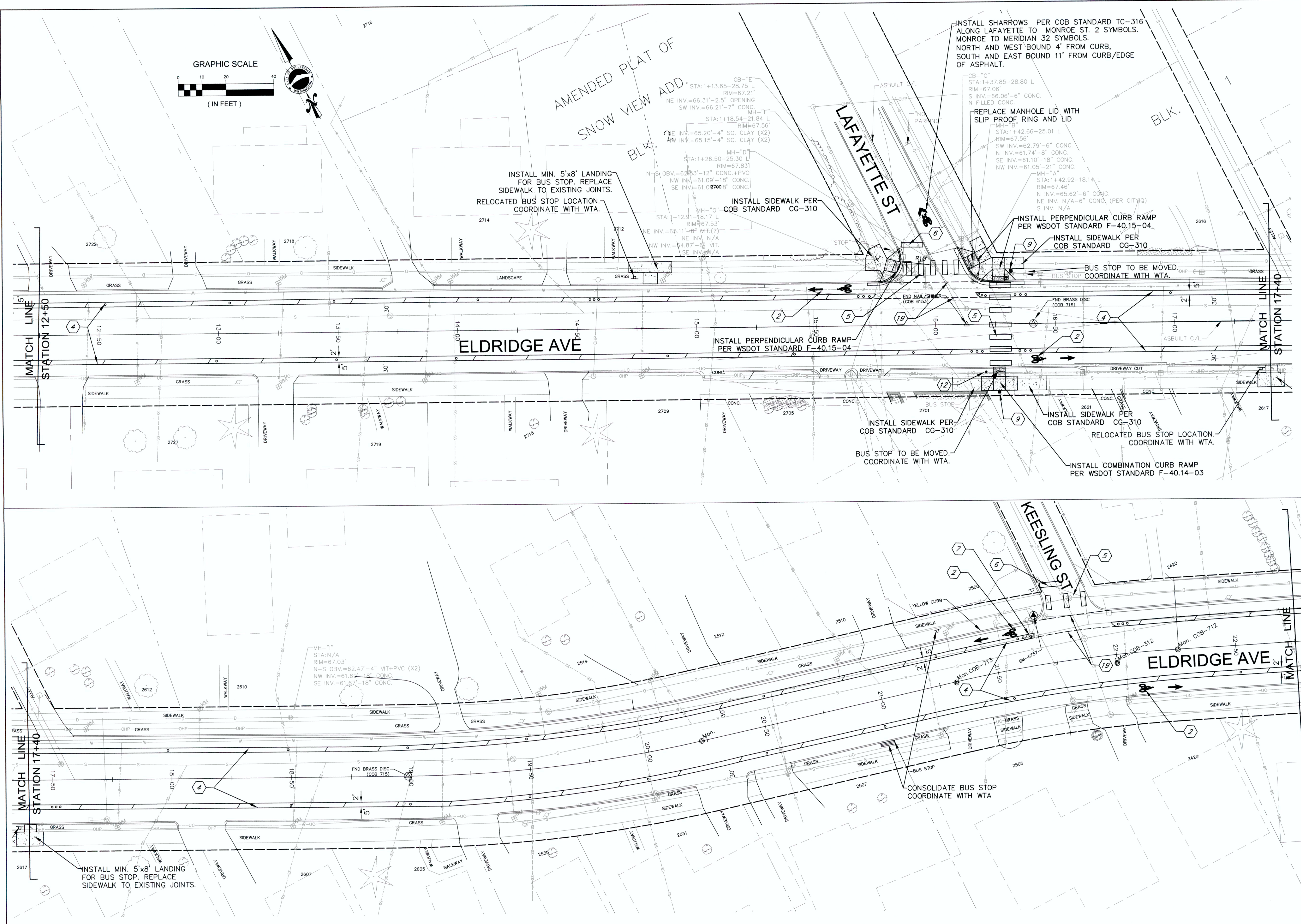
CONSTRUCTION NOTES:

- 1 INSTALL PLASTIC SHARED LANE SYMBOL AS DIRECTED BY THE ENGINEER
- 2 INSTALL DESIGNATED BIKE LANE AND ARROW SYMBOLS PER CITY STANDARD PLAN TC-315
- 3 BIKE LANE STRIPING PER CITY STANDARD TC-315
- 4 INSTALL BIKE LANE BUFFER WITH HATCHING AND DELINEATORS. SEE DETAIL SHEET 39
- 5 INSTALL WHITE PREFORMED PLASTIC CROSSWALK LINES PER COB STANDARD TC-310 (SIZE PER PLAN)
- 6 24" WHITE PLASTIC STOP LINE (BAR) PER CITY STANDARD PLAN TC-310.
- 7 BUFFER TRANSITION PER DETAIL SHEET 39
- 8 INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH S1-1 SIGNS.
- 9 INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH W11-2 SIGNS.
- 10 INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH W11-15 SIGNS.
- 11 INSTALL R1-6a SIGN DOUBLE SIDED WITH POST.
- 12 INSTALL PUSHBUTTON POST, AND R10-25 SIGN FOR BICYCLES.
- 13 INSTALL SHORT FLEXIBLE YELLOW DELINEATOR
- 14 INSTALL DOUBLE YELLOW CENTER STRIPE PER COB STANDARD TC-305
- 15 INSTALL DETECTABLE WARNING SURFACE PER WSDOT STANDARD F-45.10-03
- 16 NOT USED THIS SHEET
- 17 INSTALL 6" PLASTIC LANE LINE.
- 18 NOT USED THIS SHEET
- 19 DOTTED EXTENSION LINE PER WSDOT STANDARD M-20.10



	4				PROJECT ENGINEER	JJB	DIRECTOR OF PUBLIC WORKS	E.C.J.	CITY OF BELLINGHAM, WASHINGTON		SCALE	DATUM	Job. No.	ES-0563	WEST SIDE NON-MOTORIZED IMPROVEMENTS ELDRIDGE AVE. STA: 2+50 to 12+25	SHEET 27 OF 45	
	3				DESIGNED/DRAWN	ELH	CITY ENGINEER	C.M.A.S.	PUBLIC WORKS DEPARTMENT		Horiz.	1"= 20'	NAD 83/98	Date			02/2023
	2				INSPECTOR	DJK	OPERATIONS ENGINEER	M.A.O.	ENGINEERING DIVISION		Vert.	1"= NA	NAVD 88	Field Bk.			FB 1068-2
Date	No		Revision	By													

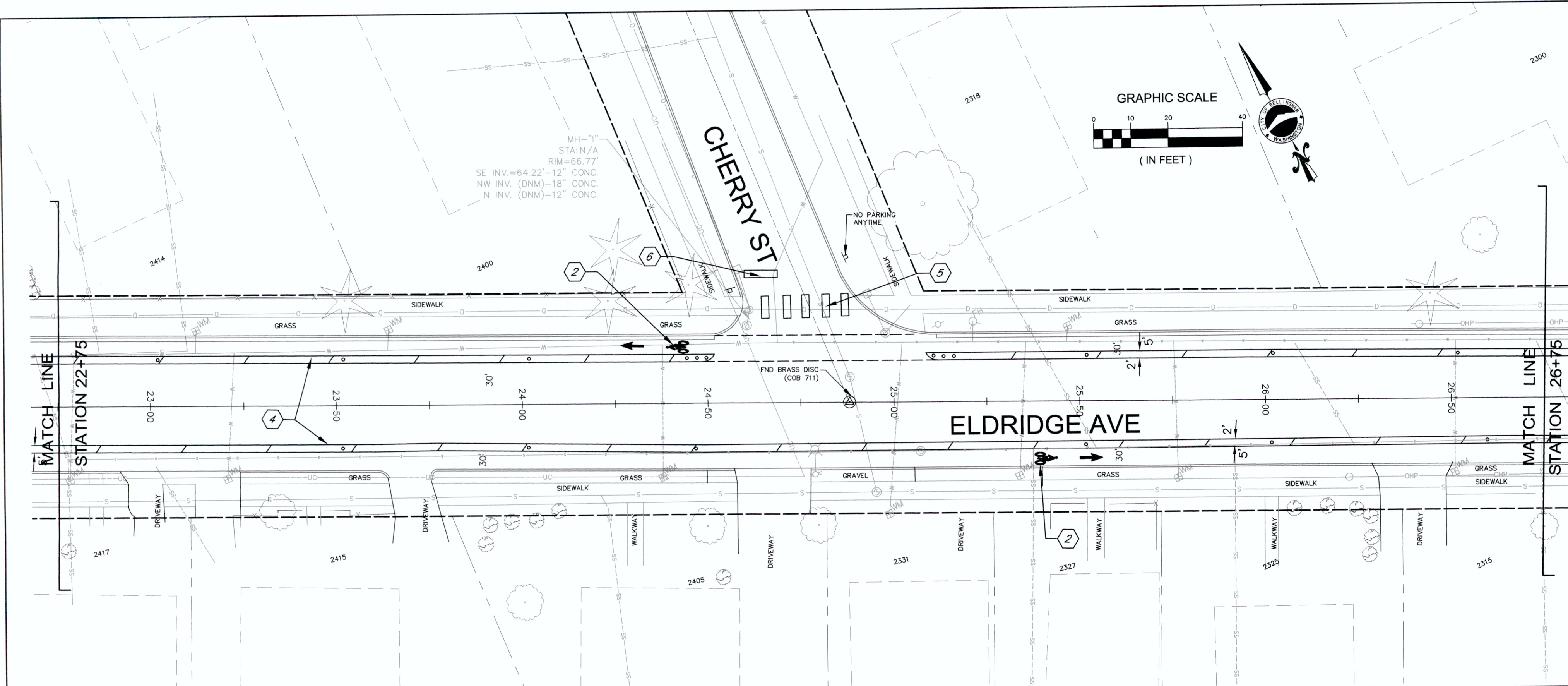
CONTACT PERSON: JESSICA BENNETT, P.E. , PROJECT ENGINEER AT 778-7923



- CONSTRUCTION NOTES:**
- 1 INSTALL PLASTIC SHARED LANE SYMBOL AS DIRECTED BY THE ENGINEER
 - 2 INSTALL DESIGNATED BIKE LANE AND ARROW SYMBOLS PER CITY STANDARD PLAN TC-315
 - 3 BIKE LANE STRIPING PER CITY STANDARD TC-315
 - 4 INSTALL BIKE LANE BUFFER WITH HATCHING AND DELINEATORS. SEE DETAIL SHEET 39
 - 5 INSTALL WHITE PREFORMED PLASTIC CROSSWALK LINES PER COB STANDARD TC-310 (SIZE PER PLAN)
 - 6 24" WHITE PLASTIC STOP LINE (BAR) PER CITY STANDARD PLAN TC-310.
 - 7 BUFFER TRANSITION PER DETAIL SHEET 39
 - 8 INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH S1-1 SIGNS.
 - 9 INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH W11-2 SIGNS.
 - 10 INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH W11-15 SIGNS.
 - 11 INSTALL R1-6a SIGN DOUBLE SIDED WITH POST.
 - 12 INSTALL PUSHBUTTON POST, AND R10-25 SIGN FOR BICYCLES.
 - 13 INSTALL SHORT FLEXIBLE YELLOW DELINEATOR
 - 14 INSTALL DOUBLE YELLOW CENTER STRIPE PER COB STANDARD TC-305
 - 15 INSTALL DETECTABLE WARNING SURFACE PER WSDOT STANDARD F-45.10-03
 - 16 NOT USED THIS SHEET
 - 17 INSTALL 6" PLASTIC LANE LINE.
 - 18 NOT USED THIS SHEET
 - 19 DOTTED EXTENSION LINE PER WSDOT STANDARD M-20.10

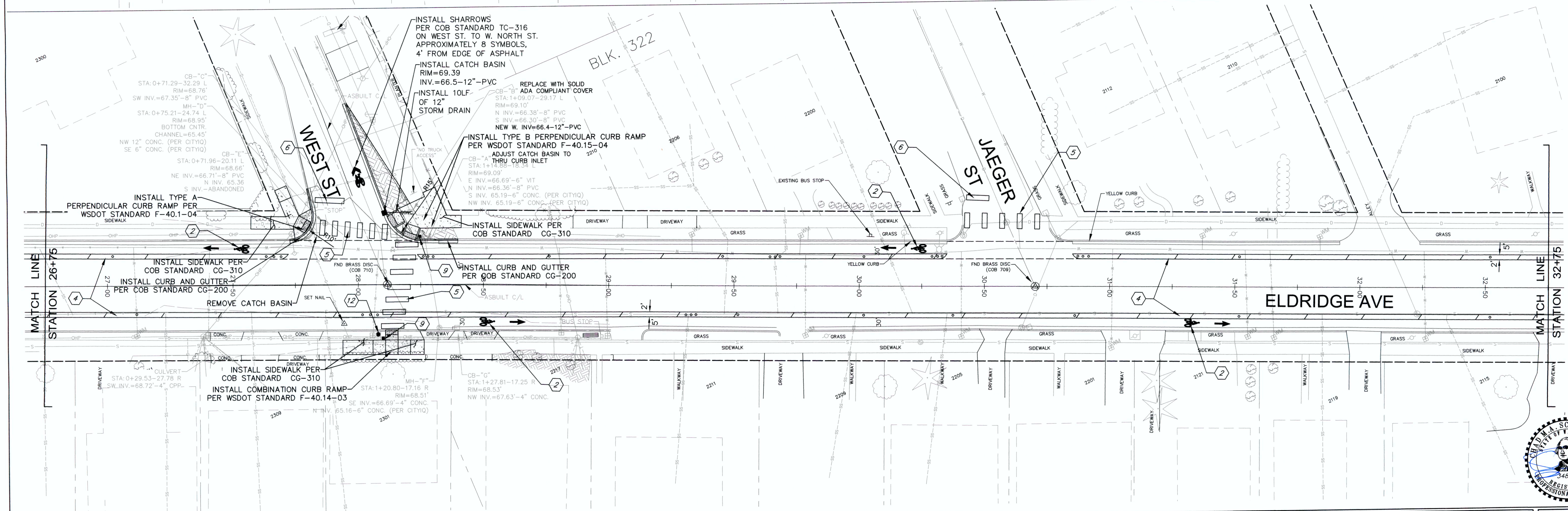
4		PROJECT ENGINEER JJB		DIRECTOR OF PUBLIC WORKS E.C.J.		CITY OF BELLINGHAM, WASHINGTON		SCALE		DATUM		Job. No. ES-0563		WEST SIDE NON-MOTORIZED IMPROVEMENTS ELDRIDGE AVE. STA: 12+25 TO 22+75		SHEET 28 OF 45	
3		DESIGNED/DRAWN ELH		CITY ENGINEER C.M.A.S.		PUBLIC WORKS DEPARTMENT		Horiz. 1"=20'		NAD 83/98		Date 02/2023					
2		INSPECTOR DJK		OPERATIONS ENGINEER M.A.O.		ENGINEERING DIVISION		Vert. 1"=NA		NAVD 88		Field Bk. FB 1068-2					
1																	
Date		Revision		By		CONTACT PERSON: JESSICA BENNETT, P.E.		PROJECT ENGINEER AT 778-7923									

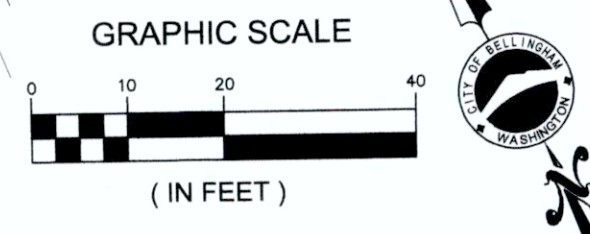
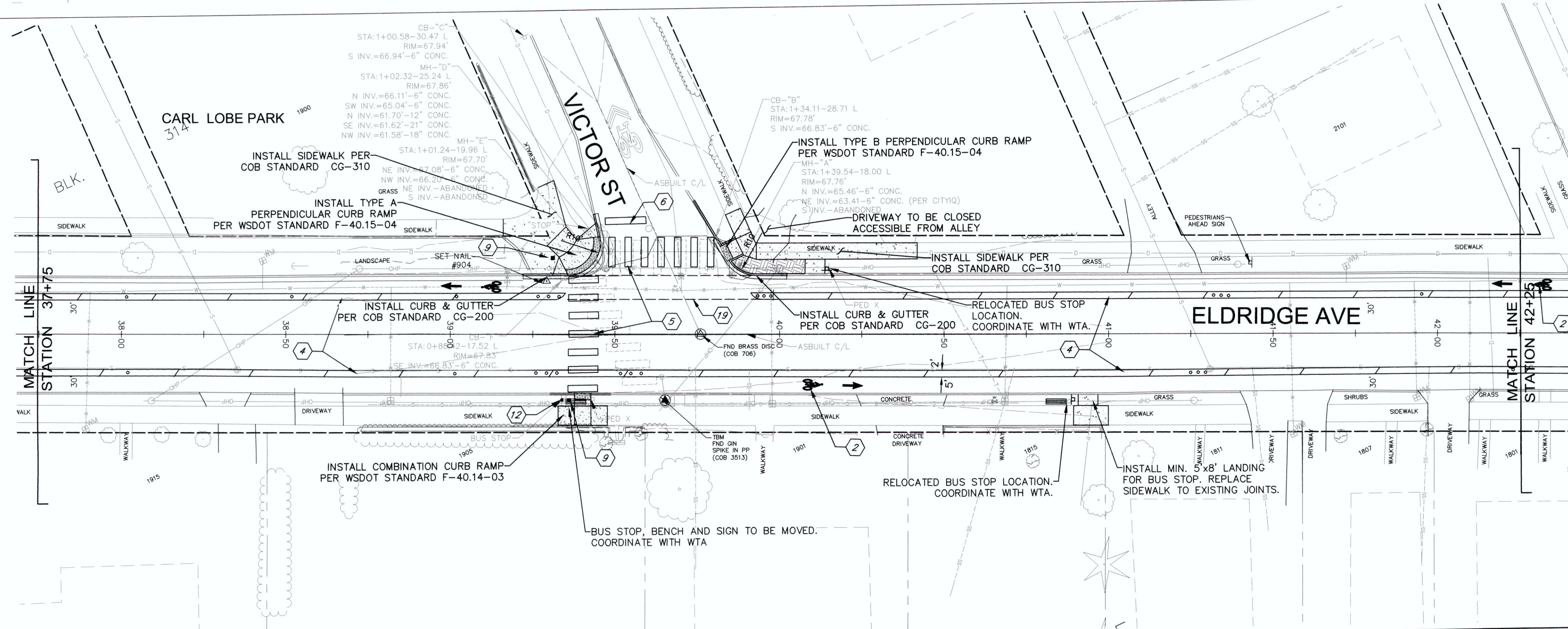
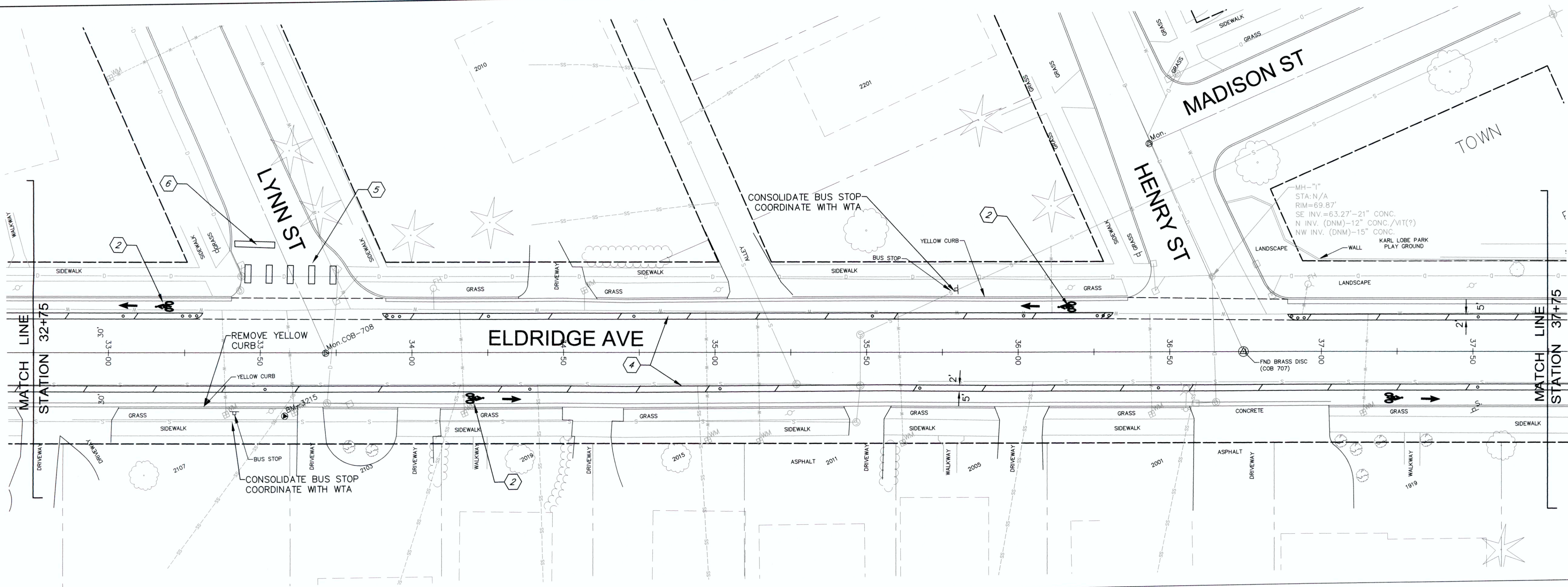




CONSTRUCTION NOTES:

1. INSTALL PLASTIC SHARED LANE SYMBOL AS DIRECTED BY THE ENGINEER
2. INSTALL DESIGNATED BIKE LANE AND ARROW SYMBOLS PER CITY STANDARD PLAN TC-315
3. BIKE LANE STRIPING PER CITY STANDARD TC-315
4. INSTALL BIKE LANE BUFFER WITH HATCHING AND DELINEATORS. SEE DETAIL SHEET 39
5. INSTALL WHITE PREFORMED PLASTIC CROSSWALK LINES PER COB STANDARD TC-310 (SIZE PER PLAN)
6. 24" WHITE PLASTIC STOP LINE (BAR) PER CITY STANDARD PLAN TC-310.
7. BUFFER TRANSITION PER DETAIL SHEET 39
8. INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH S1-1 SIGNS.
9. INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH W11-2 SIGNS.
10. INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH W11-15 SIGNS.
11. INSTALL R1-6a SIGN DOUBLE SIDED WITH POST.
12. INSTALL PUSHBUTTON POST, AND R10-25 SIGN FOR BICYCLES.
13. INSTALL SHORT FLEXIBLE YELLOW DELINEATOR
14. INSTALL DOUBLE YELLOW CENTER STRIPE PER COB STANDARD TC-305
15. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STANDARD F-45.10-03
16. NOT USED THIS SHEET
17. INSTALL 6" PLASTIC LANE LINE.
18. NOT USED THIS SHEET
19. DOTTED EXTENSION LINE PER WSDOT STANDARD M-20.10





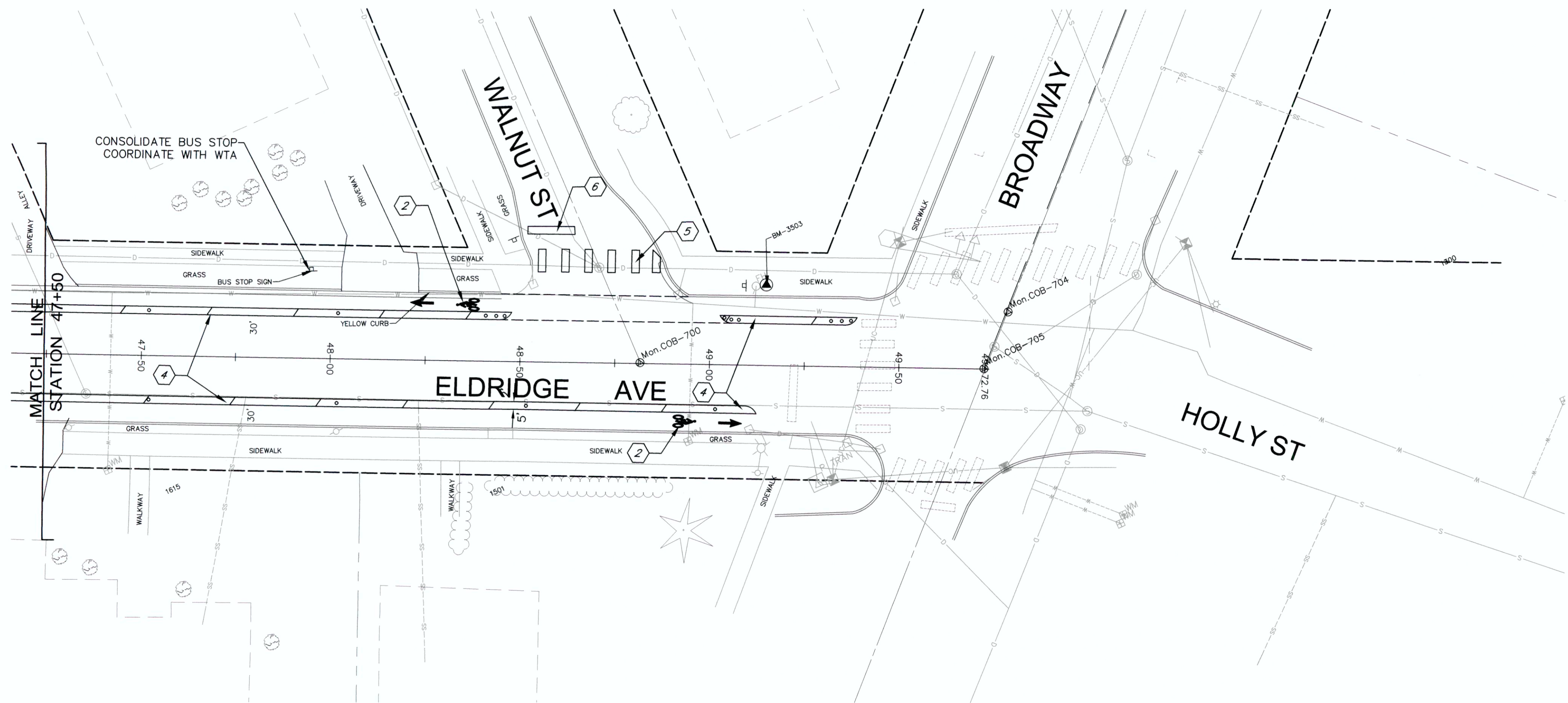
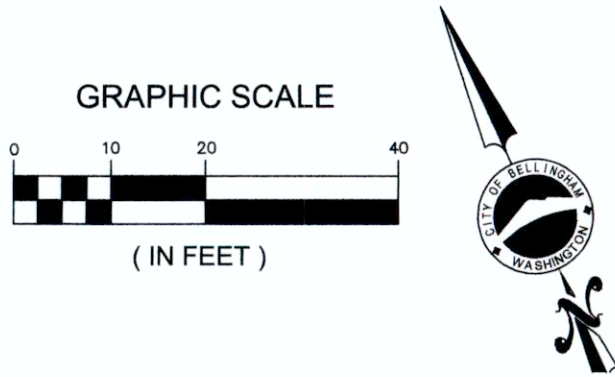
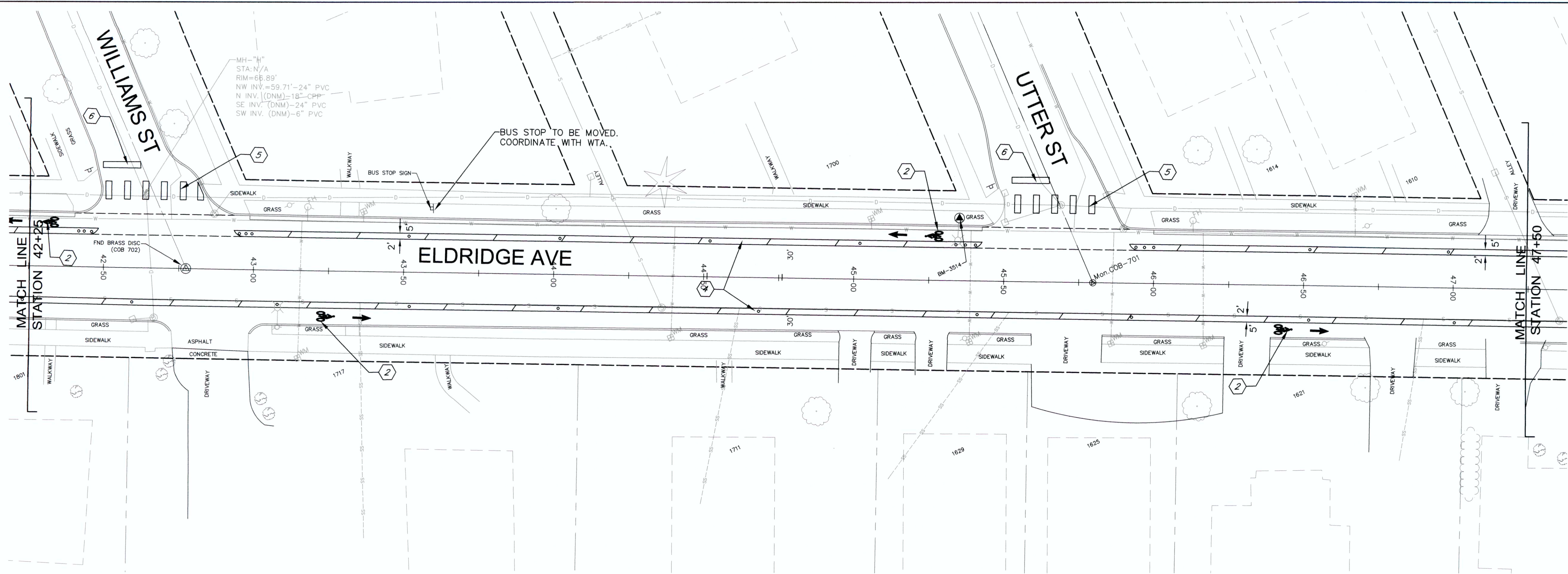
CONSTRUCTION NOTES:

- 1 INSTALL PLASTIC SHARED LANE SYMBOL AS DIRECTED BY THE ENGINEER
- 2 INSTALL DESIGNATED BIKE LANE AND ARROW SYMBOLS PER CITY STANDARD PLAN TC-315
- 3 BIKE LANE STRIPING PER CITY STANDARD TC-315
- 4 INSTALL BIKE LANE BUFFER WITH HATCHING AND DELINEATORS. SEE DETAIL SHEET 39
- 5 INSTALL WHITE PREFORMED PLASTIC CROSSWALK LINES PER COB STANDARD TC-310 (SIZE PER PLAN)
- 6 24" WHITE PLASTIC STOP LINE (BAR) PER CITY STANDARD PLAN TC-310.
- 7 BUFFER TRANSITION PER DETAIL SHEET 39
- 8 INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH S1-1 SIGNS.
- 9 INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH W11-2 SIGNS.
- 10 INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH W11-15 SIGNS.
- 11 INSTALL R1-6a SIGN DOUBLE SIDED WITH POST.
- 12 INSTALL PUSHBUTTON POST, AND R10-25 SIGN FOR BICYCLES.
- 13 INSTALL SHORT FLEXIBLE YELLOW DELINEATOR
- 14 INSTALL DOUBLE YELLOW CENTER STRIP PER COB STANDARD TC-305
- 15 INSTALL DETECTABLE WARNING SURFACE PER WSDOT STANDARD F-45.10-03
- 16 NOT USED THIS SHEET
- 17 INSTALL 6" PLASTIC LANE LINE.
- 18 NOT USED THIS SHEET
- 19 DOTTED EXTENSION LINE PER WSDOT STANDARD M-20.10

<div><div>4</div><div>3</div><div>1</div><div>Date</div><div>No</div></div>		<div>Revision</div> <div>By</div>	<div>PROJECT ENGINEER</div> <div>DESIGNED/DRAWN</div> <div>INSPECTOR</div> <div>JJB</div> <div>ELH</div> <div>DJK</div>	<div>DIRECTOR OF PUBLIC WORKS</div> <div>CITY ENGINEER</div> <div>OPERATIONS ENGINEER</div> <div>E.C.J.</div> <div>C.M.A.S.</div> <div>M.A.O.</div>	<div>CITY OF BELLINGHAM, WASHINGTON</div> <div>PUBLIC WORKS DEPARTMENT</div> <div>ENGINEERING DIVISION</div>	<div>SCALE</div> <div>Horiz. 1"= 20'</div> <div>Vert. 1"= NA</div>	<div>DATUM</div> <div>NAD 83/98</div> <div>NAVD 88</div>	<div>Job. No.</div> <div>Date</div> <div>Field Bk.</div> <div>ES-0563</div> <div>02/2023</div> <div>FB 1068-2</div>	<div>WEST SIDE NON-MOTORIZED IMPROVEMENTS</div> <div>ELDRIDGE AVE. STA: 32+75 TO 42+25</div>	<div>SHEET</div> <div>30</div> <div>OF</div> <div>45</div>
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CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7923





CONSTRUCTION NOTES:

- 1) INSTALL PLASTIC SHARED LANE SYMBOL AS DIRECTED BY THE ENGINEER

2) INSTALL DESIGNATED BIKE LANE AND ARROW SYMBOLS PER CITY STANDARD PLAN TC-315

3) BIKE LANE STRIPING PER CITY STANDARD TC-315

4) INSTALL BIKE LANE BUFFER WITH HATCHING AND DELINEATORS. SEE DETAIL SHEET 39

5) INSTALL WHITE PREFORMED PLASTIC CROSSWALK LINES PER COB STANDARD TC-310 (SIZE PER PLAN)

6) 24" WHITE PLASTIC STOP LINE (BAR) PER CITY STANDARD PLAN TC-310.

7) BUFFER TRANSITION PER DETAIL SHEET 39

8) INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH S1-1 SIGNS.

9) INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH W11-2 SIGNS.

10) INSTALL RECTANGULAR RAPID FLASHING BEACON(RRFB) PER DETAIL SHEET 40 WITH W11-15 SIGNS.
- 11) INSTALL R1-6a SIGN DOUBLE SIDED WITH POST.

12) INSTALL PUSHBUTTON POST, AND R10-25 SIGN FOR BICYCLES.

13) INSTALL SHORT FLEXIBLE YELLOW DELINEATOR

14) INSTALL DOUBLE YELLOW CENTER STRIPE PER COB STANDARD TC-305

15) INSTALL DETECTABLE WARNING SURFACE PER WSDOT STANDARD F-45.10-03

16) NOT USED THIS SHEET

17) INSTALL 6" PLASTIC LANE LINE.

18) NOT USED THIS SHEET

19) DOTTED EXTENSION LINE PER WSDOT STANDARD M-20.10



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Date	No	Revision	By

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR DJK

DIRECTOR OF PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= NA

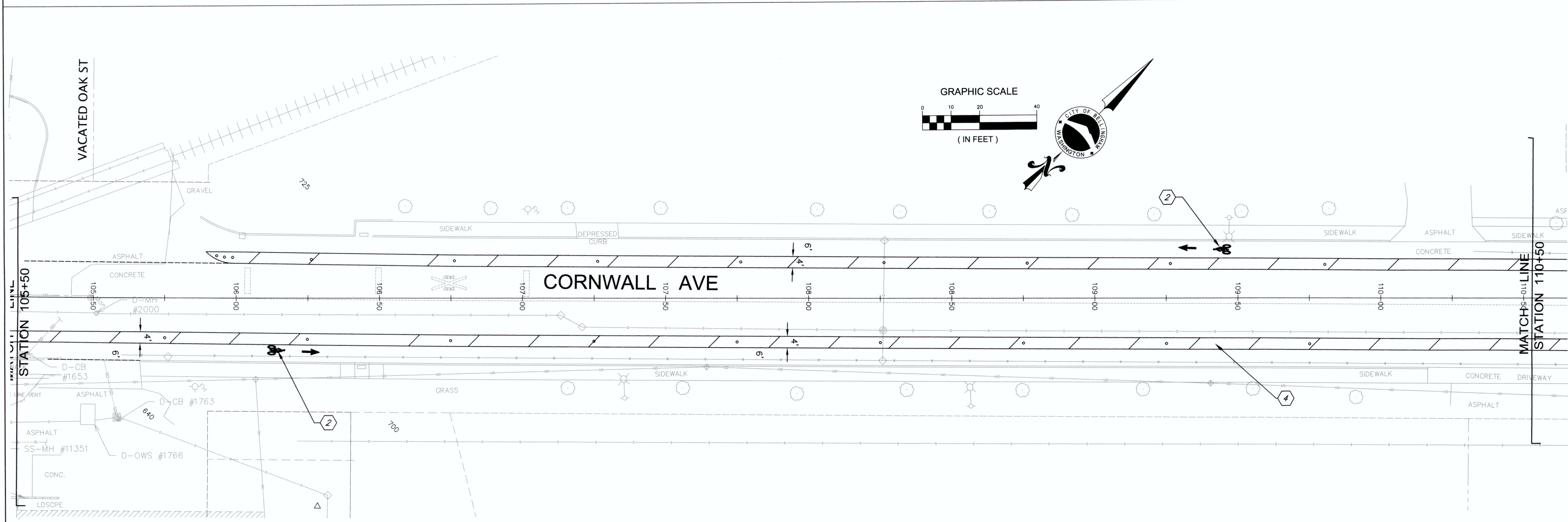
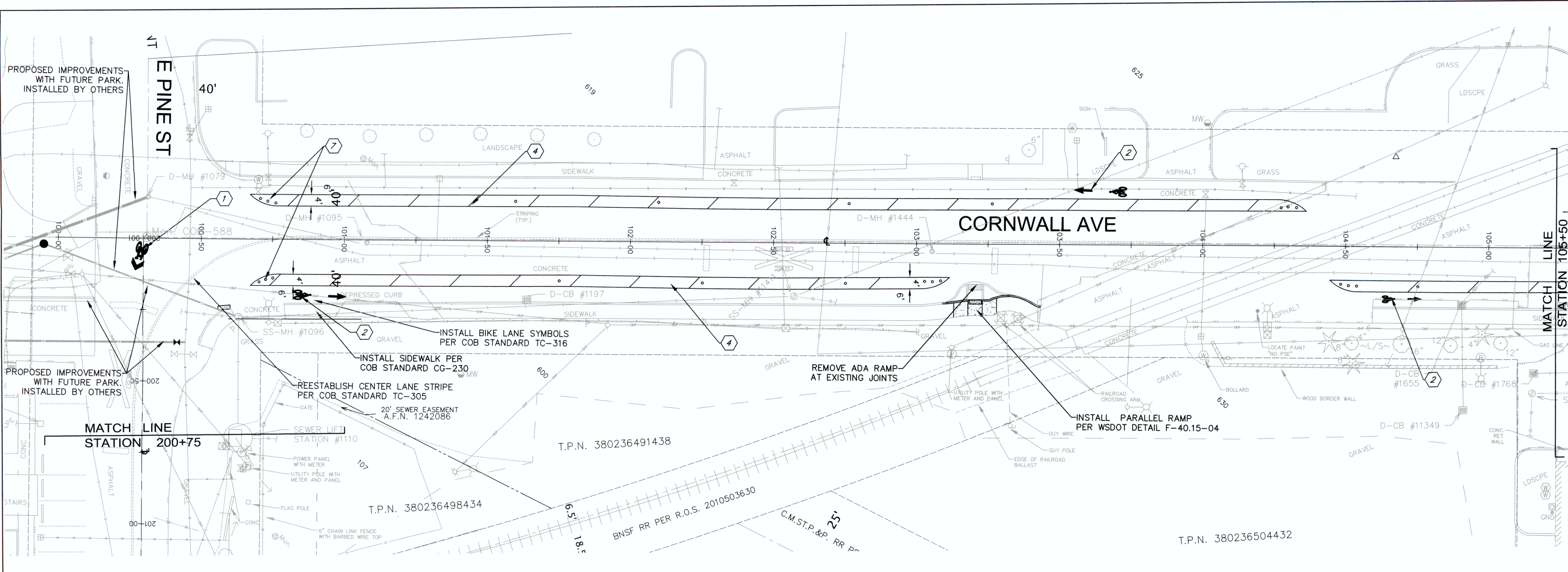
DATUM
NAD 83/98
NAVD 88

Job. No. ES-0563
Date 02/2023
Field Bk. FB 1068-2

WEST SIDE NON-MOTORIZED IMPROVEMENTS
ELDRIDGE AVE. STA: 42+25 to 50+00

SHEET 31 OF 45

CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7923

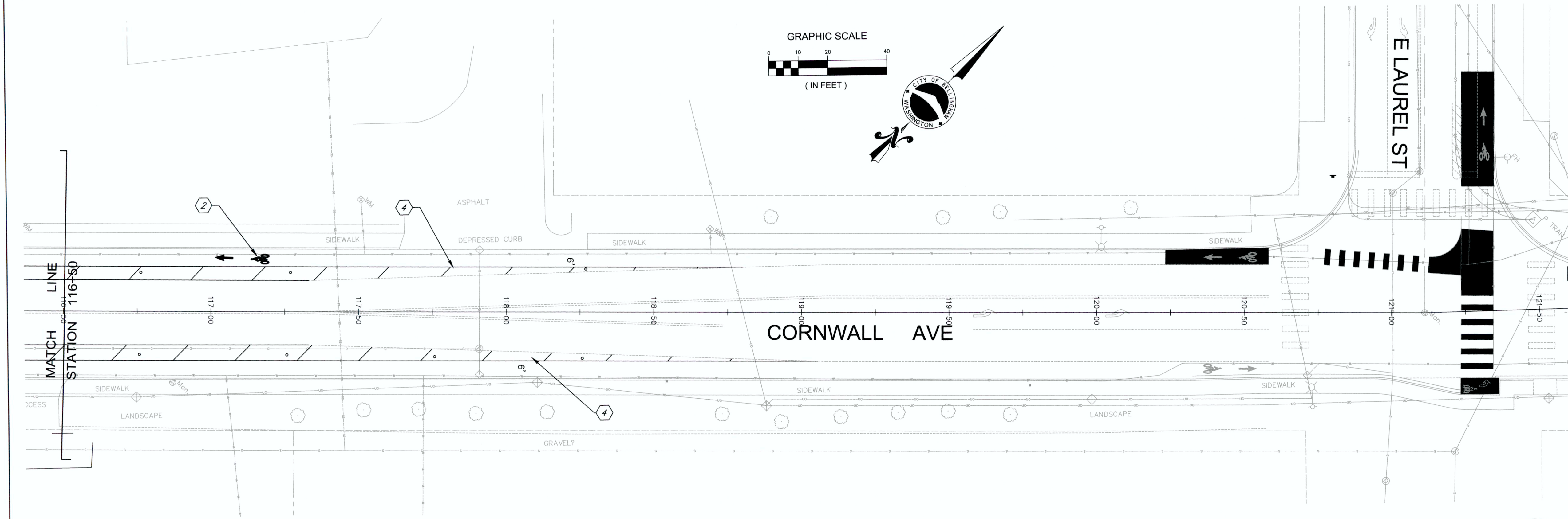


- CONSTRUCTION NOTES:**
- 1 INSTALL PLASTIC SHARED LANE SYMBOL AS DIRECTED BY THE ENGINEER
 - 2 INSTALL DESIGNATED BIKE LANE AND ARROW SYMBOLS PER CITY STANDARD PLAN TC-315
 - 3 BIKE LANE STRIPING PER CITY STANDARD TC-315
 - 4 INSTALL BIKE LANE BUFFER WITH HATCHING AND DELINEATORS. SEE DETAIL SHEET 39
 - 5 INSTALL 2'X9' WHITE PLASTIC CROSS-WALK LINES PER WSDOT STANDARD PLAN M-15.10
 - 6 24" WHITE PLASTIC STOP LINE (BAR) PER CITY STANDARD PLAN TC-310.
 - 7 BUFFER TRANSITION PER DETAIL SHEET 39
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 - 13 INSTALL SHORT FLEXIBLE YELLOW DELINEATOR
 - 14 INSTALL DOUBLE YELLOW CENTER STRIPE PER COB STANDARD TC-305
 - 15 INSTALL DETECTABLE WARNING SURFACE PER WSDOT STANDARD F-45.10-03
 - 16 NOT USED THIS SHEET
 - 17 INSTALL 6" PLASTIC LANE LINE.
 - 18 NOT USED THIS SHEET
 - 19 DOTTED EXTENSION LINE PER WSDOT STANDARD M-20.10

	4				PROJECT ENGINEER	JJB	DIRECTOR OF PUBLIC WORKS	E.C.J.	CITY OF BELLINGHAM, WASHINGTON PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	SCALE Horiz. 1"= 20' Vert. 1"= NA	DATUM NAD 83/98 NAVD 88	Job. No. ES-0563 Date 02/2023 Field Bk. FB 1068-2	WEST SIDE NON-MOTORIZED IMPROVEMENTS CORNWALL AVE. STA: 100+00 to 110+50	SHEET 32 OF 45
	3				DESIGNED/DRAWN	ELH	CITY ENGINEER	C.A.M.S.						
	2													
	1				INSPECTOR	DJK	OPERATIONS ENGINEER	M.A.O.						
Date	No		Revision	By										

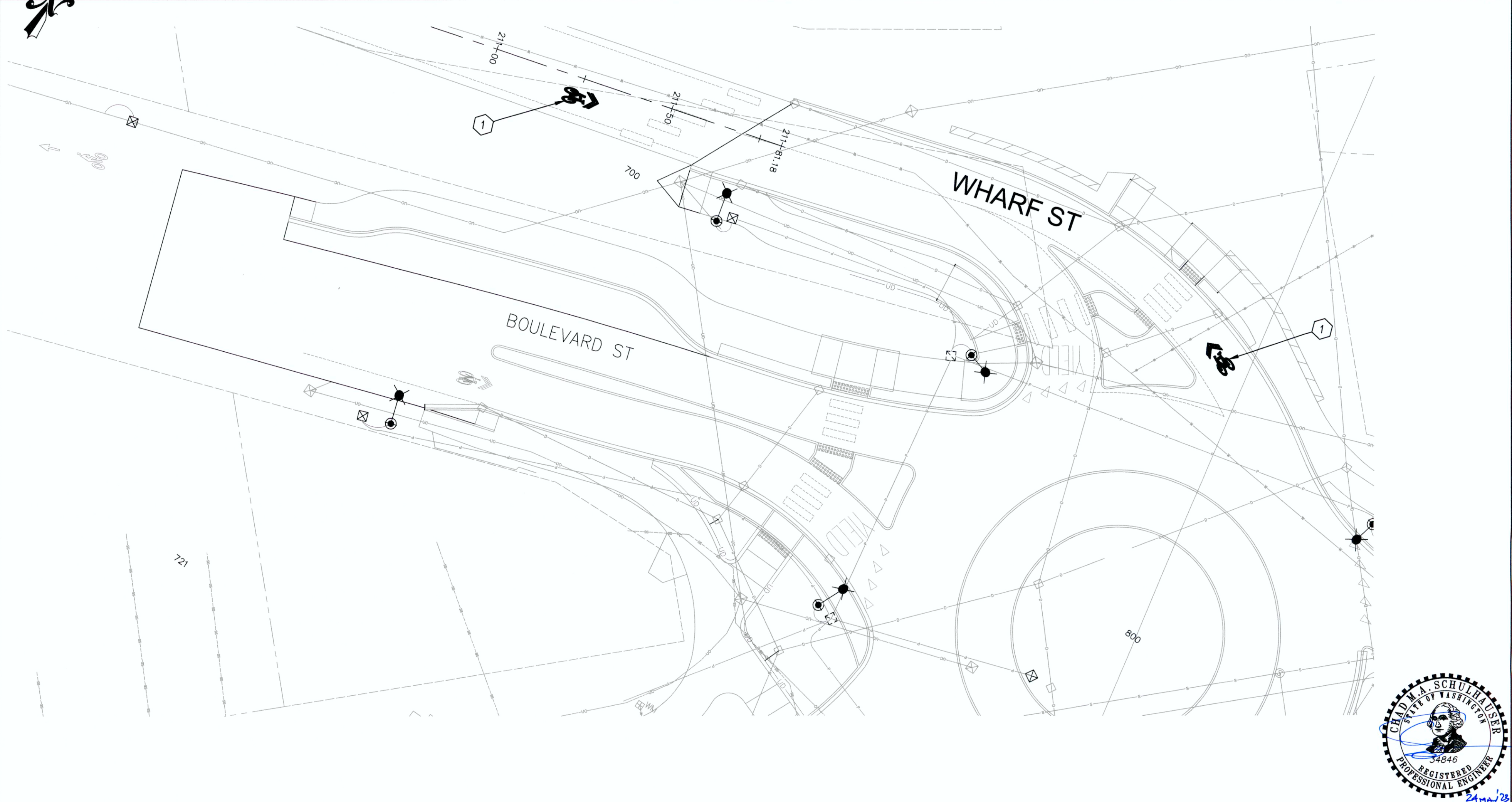
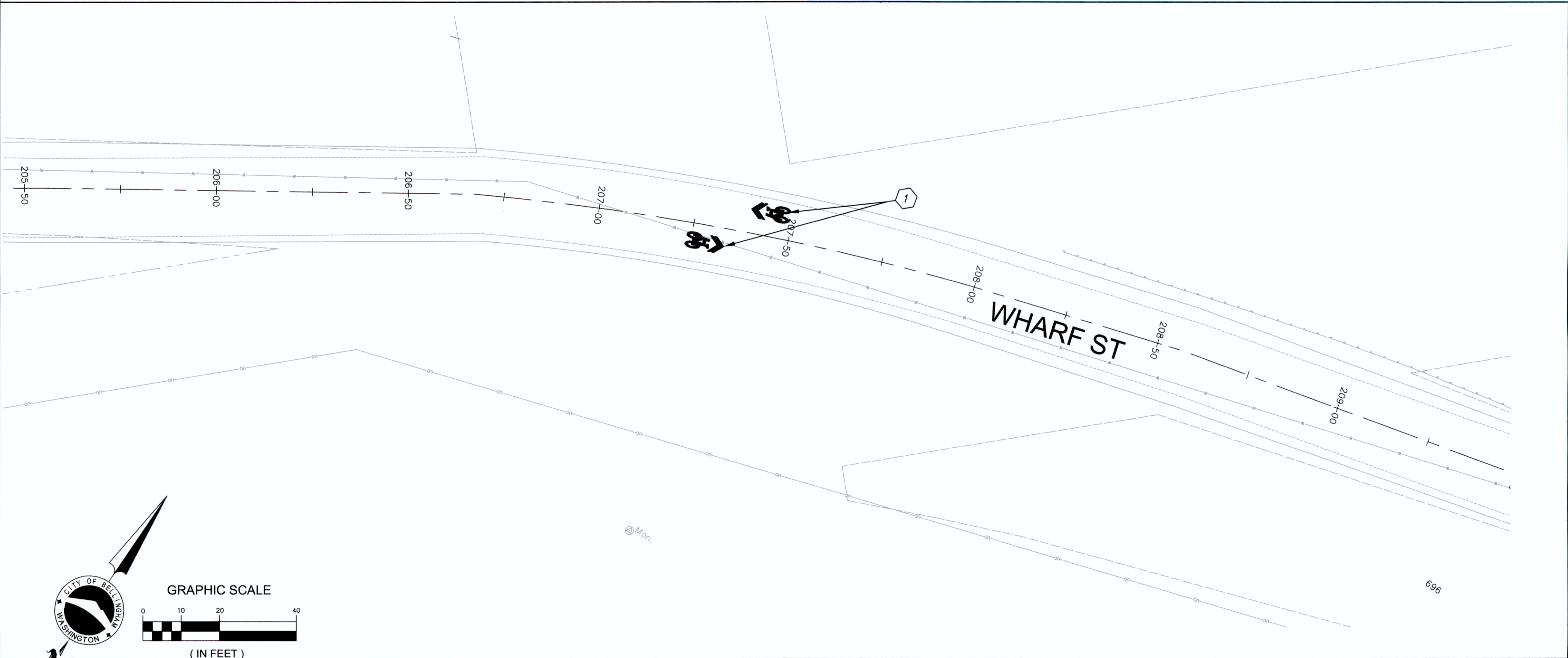
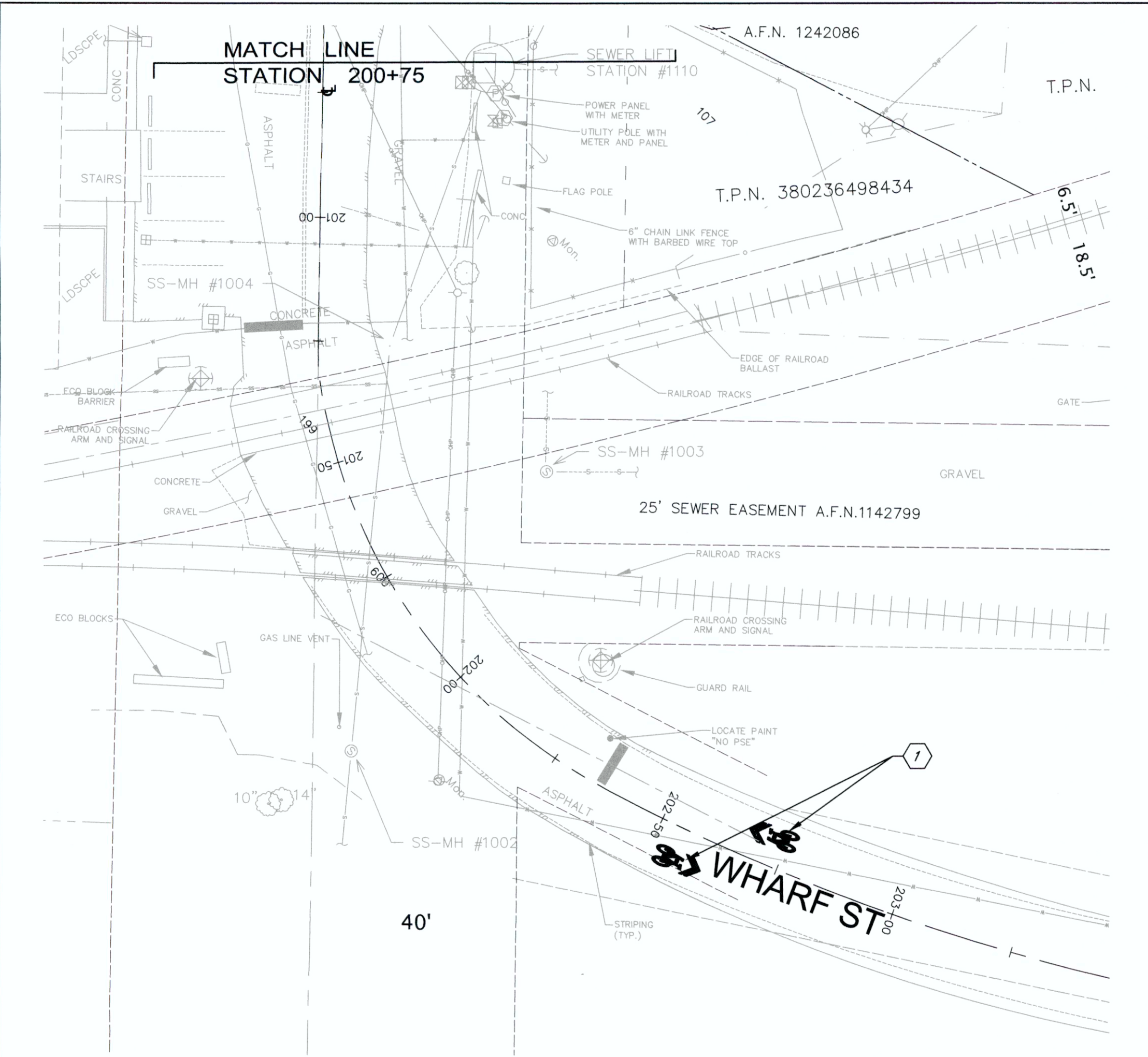
CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7923





SHEET 33 OF 45

CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7923



CONSTRUCTION NOTES:

- 1 INSTALL PLASTIC SHARED LANE SYMBOL AS DIRECTED BY THE ENGINEER

2 INSTALL DESIGNATED BIKE LANE AND ARROW SYMBOLS PER CITY STANDARD PLAN TC-315

3 BIKE LANE STRIPING PER CITY STANDARD TC-315

4 INSTALL BIKE LANE BUFFER WITH HATCHING AND DELINEATORS. SEE DETAIL SHEET 39

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7 BUFFER TRANSITION PER DETAIL SHEET 39

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13 INSTALL SHORT FLEXIBLE YELLOW DELINEATOR

14 INSTALL DOUBLE YELLOW CENTER STRIPE PER COB STANDARD TC-305

15 INSTALL DETECTABLE WARNING SURFACE PER WSDOT STANDARD F-45.10-03

16 NOT USED THIS SHEET

17 INSTALL 6" PLASTIC LANE LINE.

18 NOT USED THIS SHEET

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Date	No	Revision	By

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR DJK

DIRECTOR OF PUBLIC WORKS E.C.J.
CITY ENGINEER C.A.M.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= NA

DATUM
NAD 83/98
NAVD 88

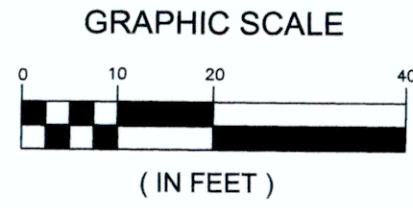
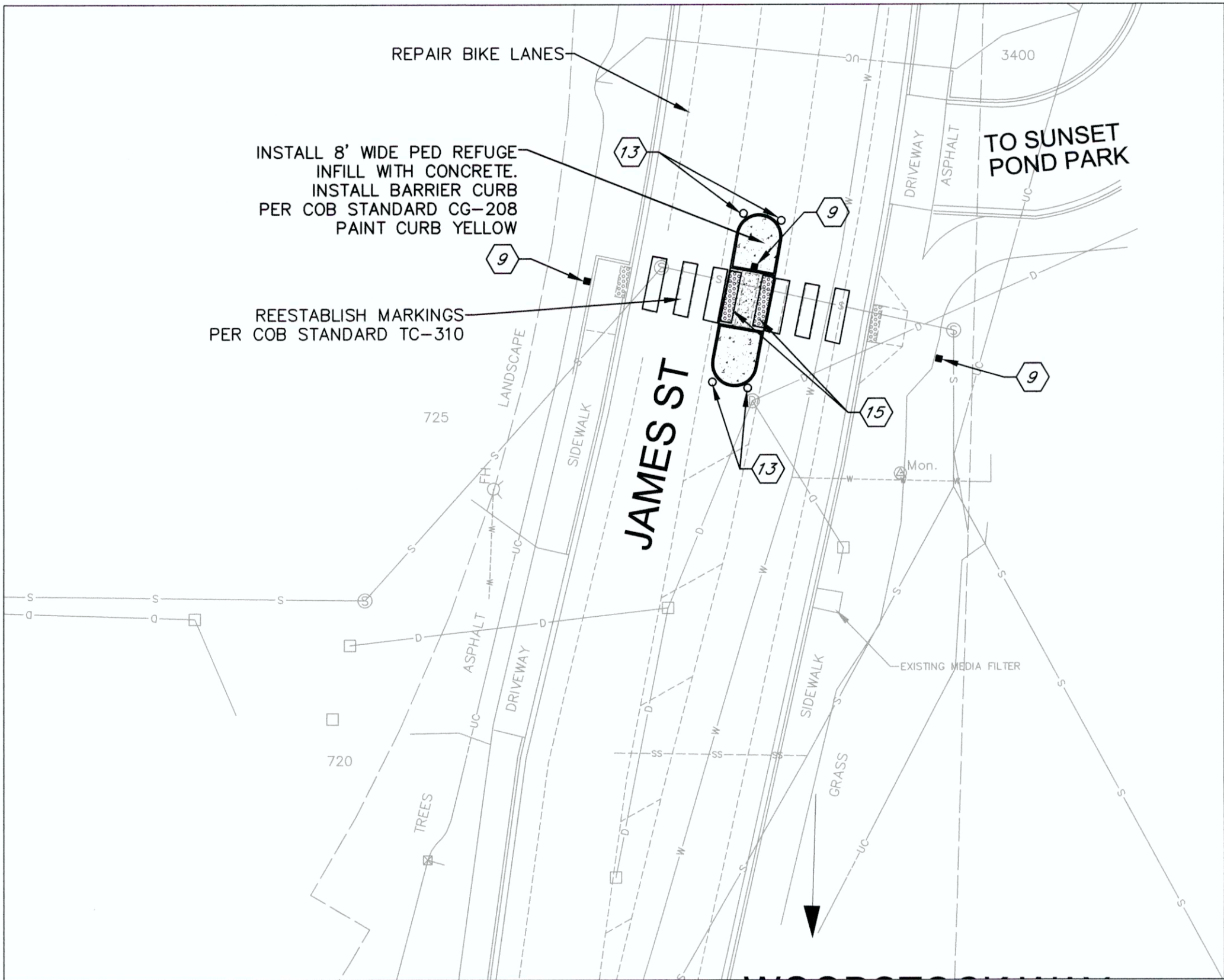
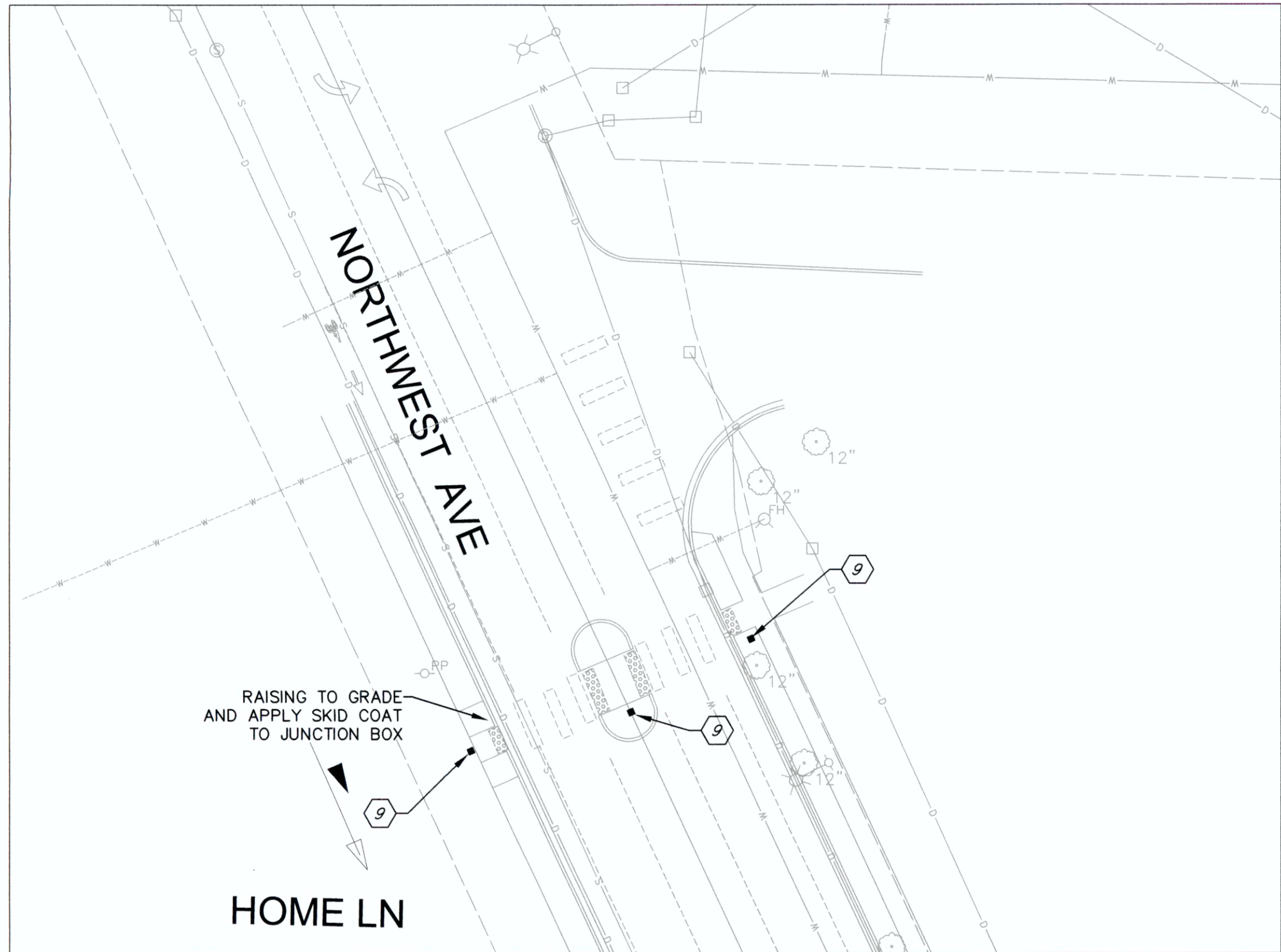
Job. No. ES-0563
Date 02/2023
Field Bk. FB 1068-2

WEST SIDE NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION WHARF ST.

SHEET 34 OF 45

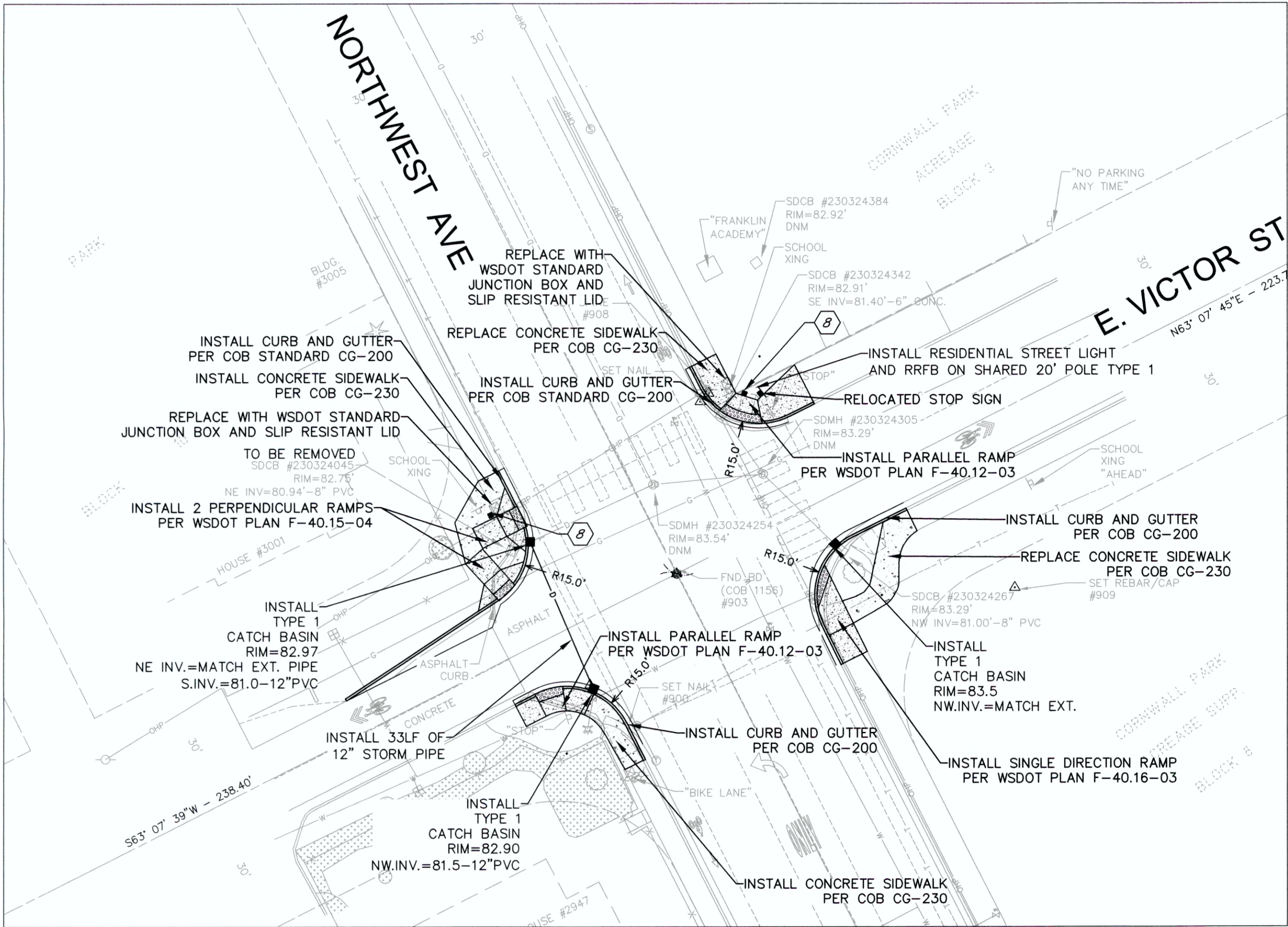
CONTACT PERSON: JESSICA BENNETT, P.E. , PROJECT ENGINEER AT 778-7923





CONSTRUCTION NOTES:

- 1 INSTALL PLASTIC SHARED LANE SYMBOL AS DIRECTED BY THE ENGINEER
- 2 INSTALL DESIGNATED BIKE LANE AND ARROW SYMBOLS PER CITY STANDARD PLAN TC-315
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- 15 INSTALL DETECTABLE WARNING SURFACE PER WSDOT STANDARD F-45.10-03
- 16 NOT USED THIS SHEET
- 17 INSTALL 6" PLASTIC LANE LINE.
- 18 NOT USED THIS SHEET
- 19 DOTTED EXTENSION LINE PER WSDOT STANDARD M-20.10



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Date	No	Revision	By

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR DJK

DIRECTOR OF PUBLIC WORKS E.C.J.
CITY ENGINEER C.A.M.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"=20'
Vert. 1"=NA

DATUM
NAD 83/98
NAVD 88

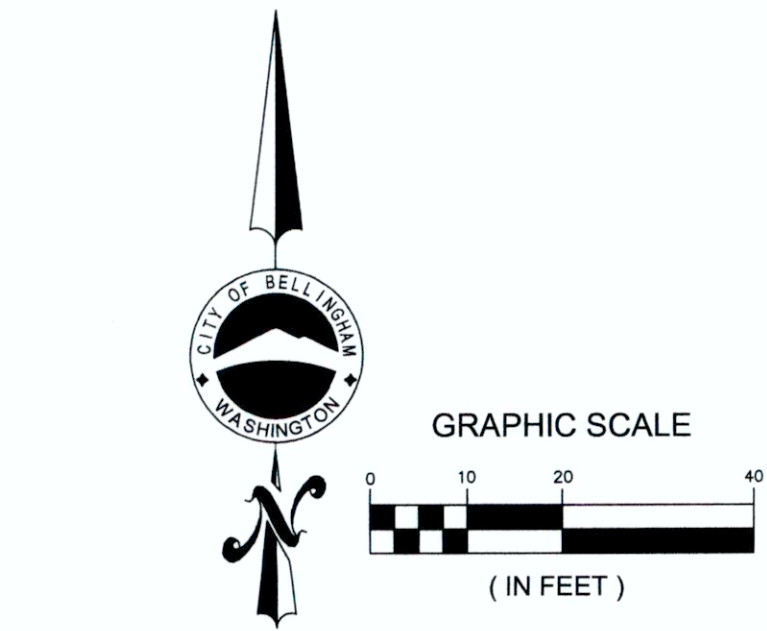
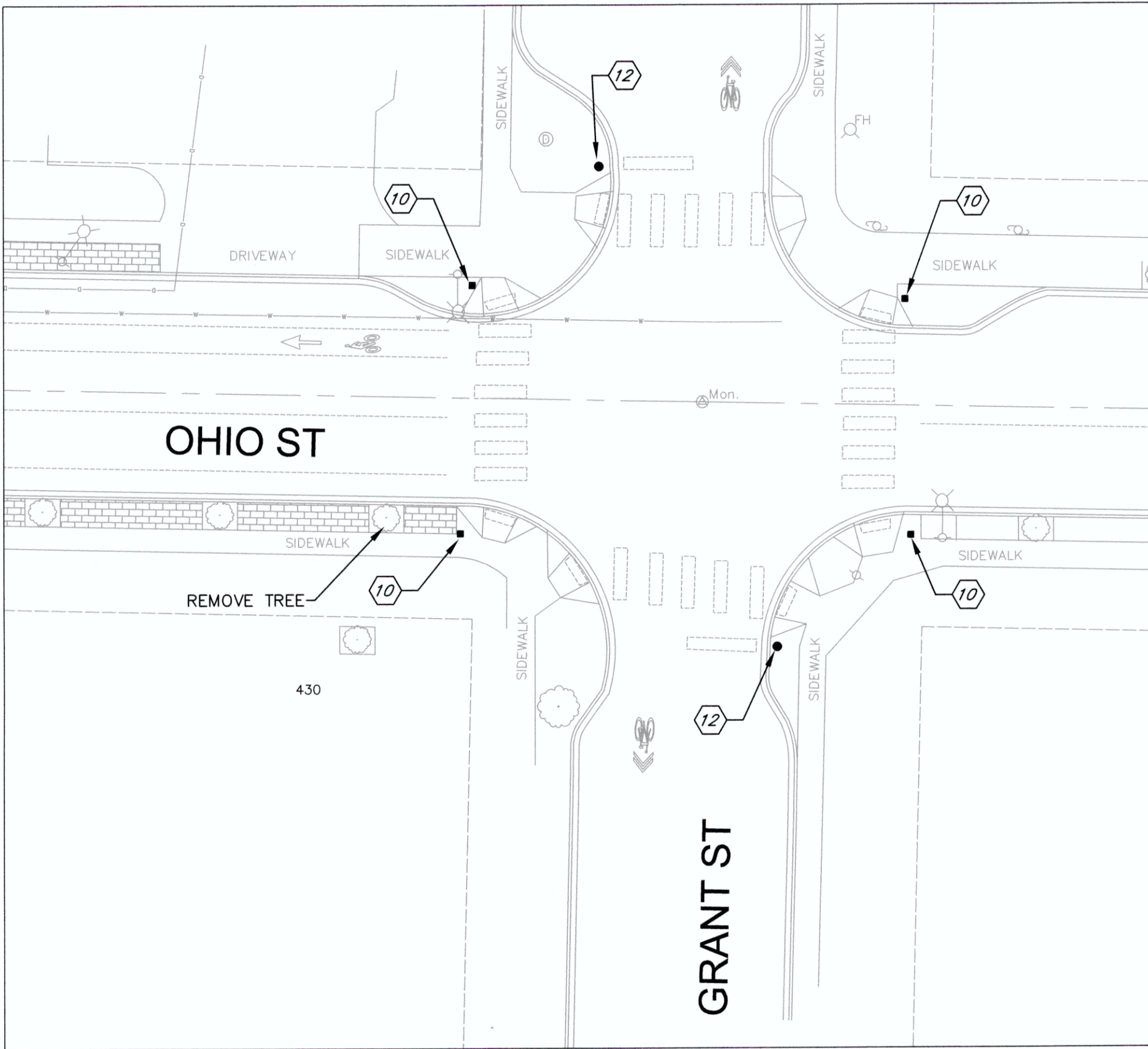
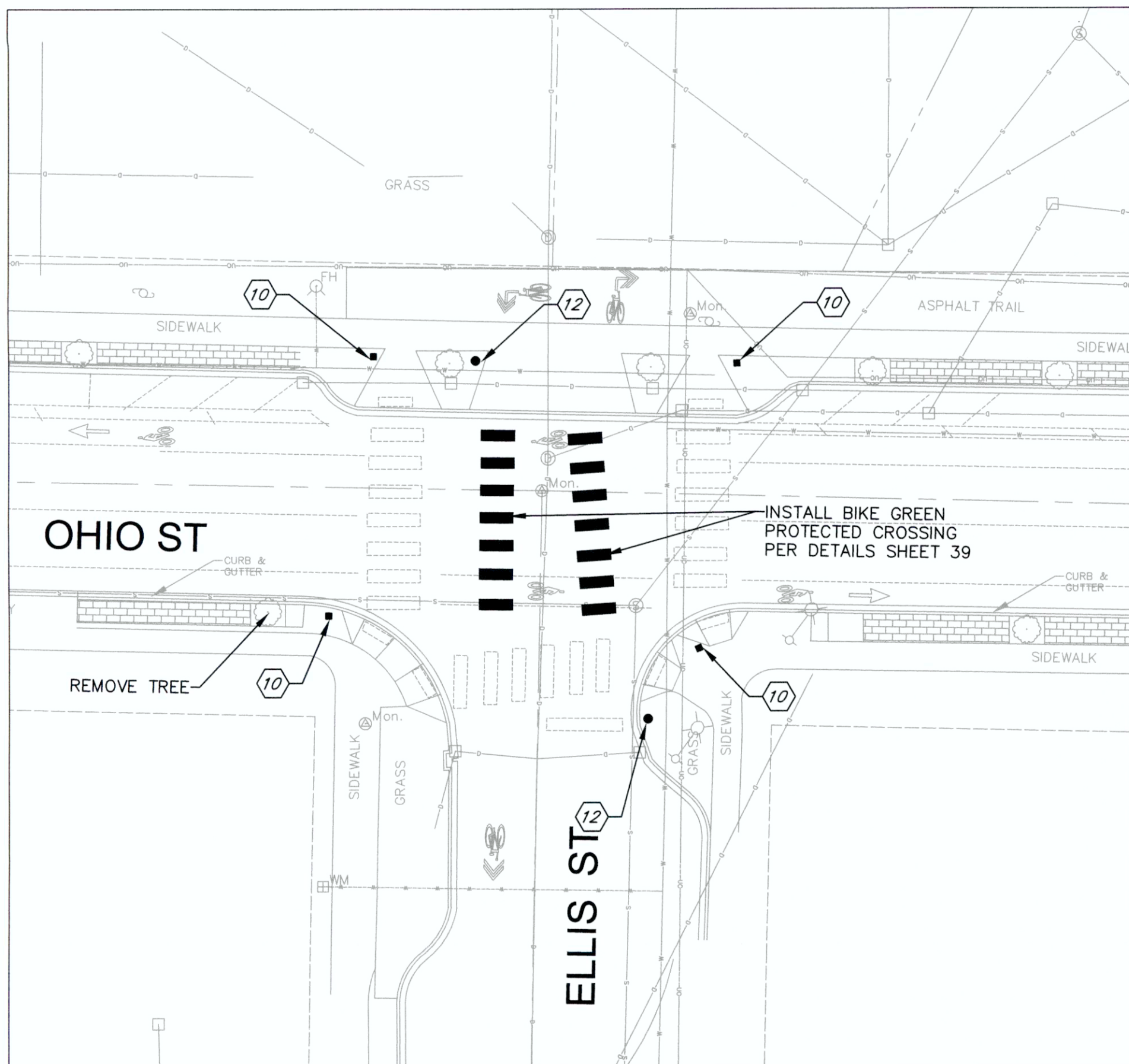
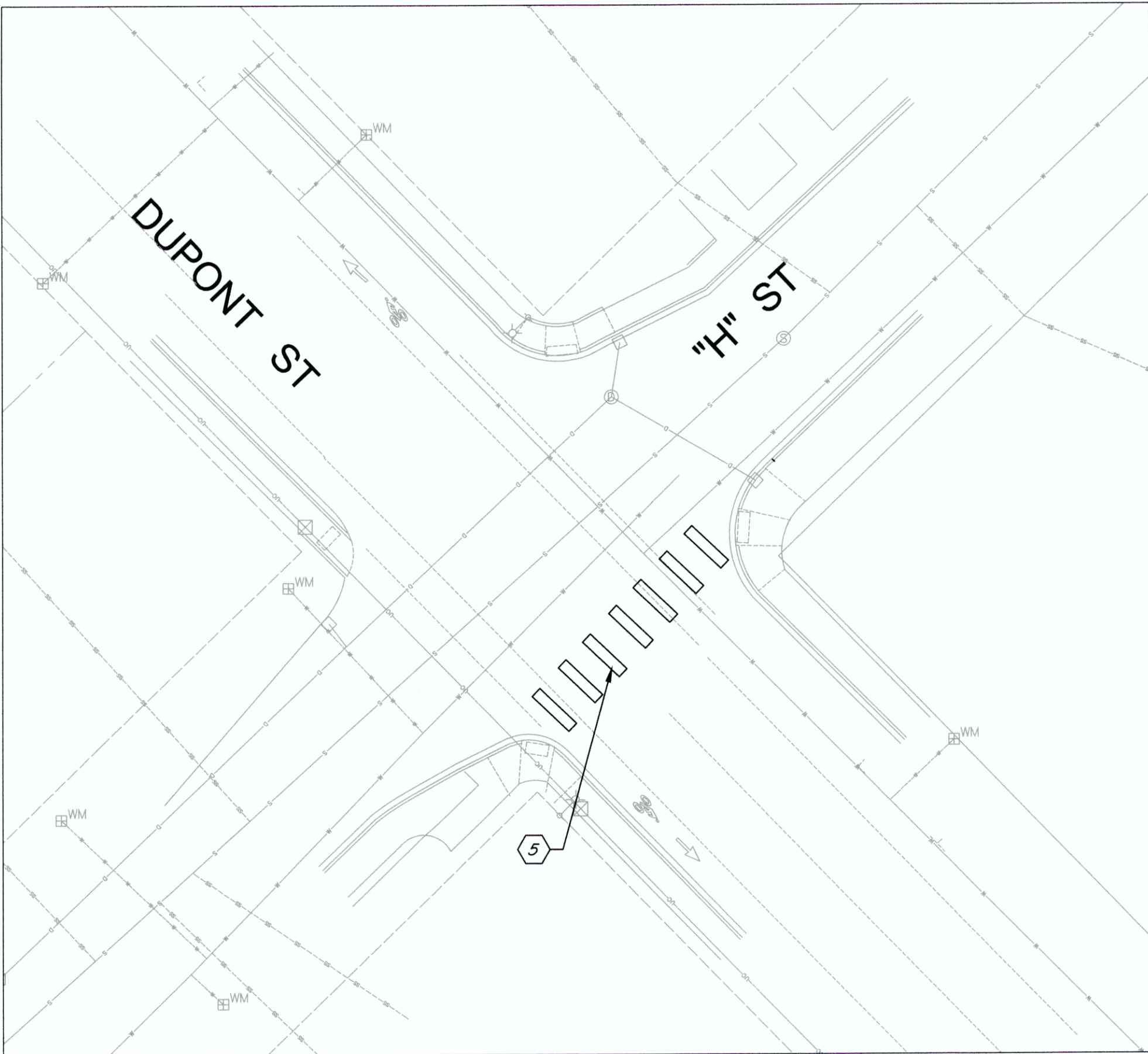
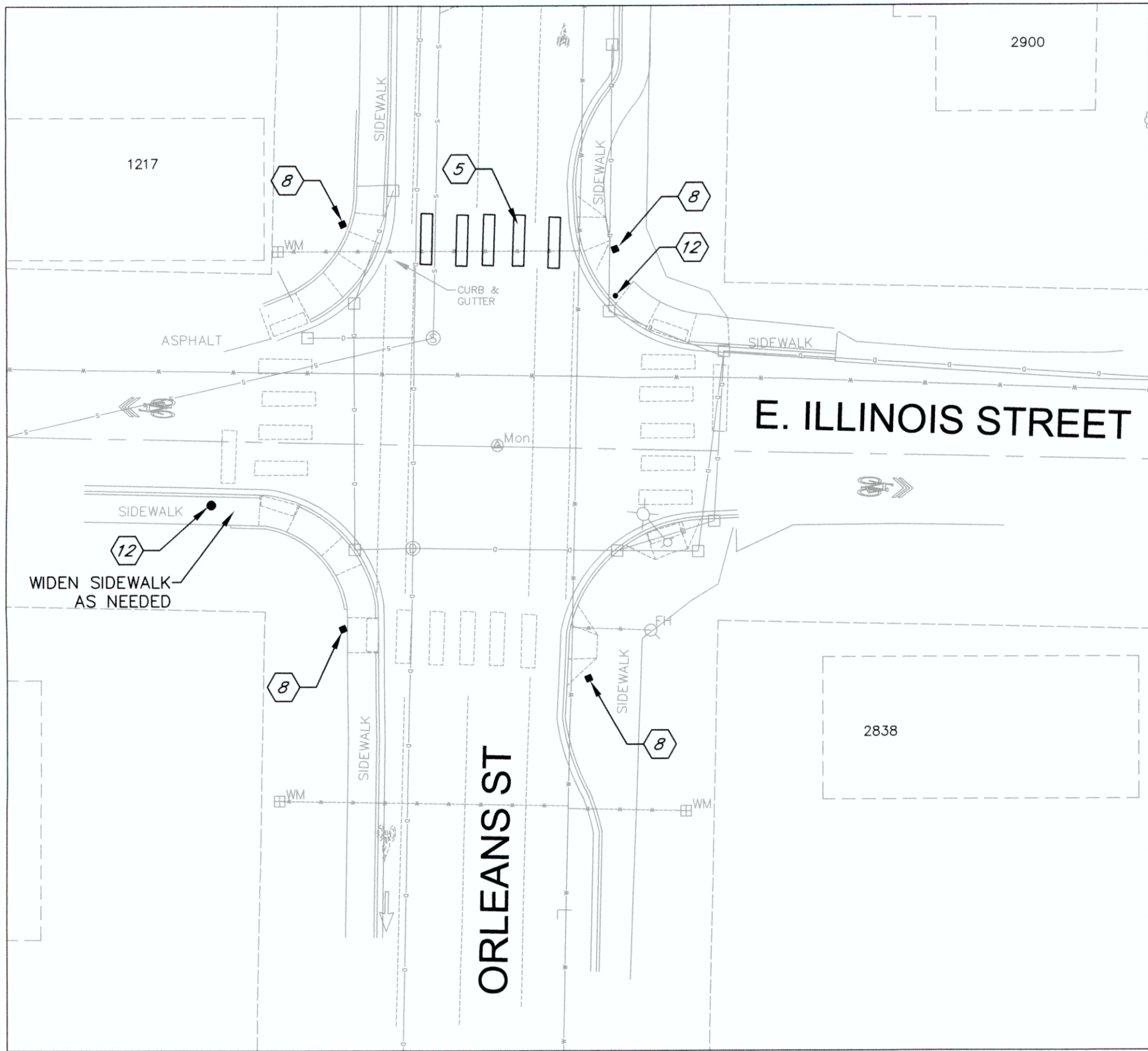
Job. No. ES-0563
Date 02/2023
Field Bk. FB 1068-2

WEST SIDE NON-MOTORIZED IMPROVEMENTS
CHANELIZATION & RRFB 4, 5, & 6

SHEET 36 OF 45

CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-27923





CONSTRUCTION NOTES:

1. INSTALL PLASTIC SHARED LANE SYMBOL AS DIRECTED BY THE ENGINEER
2. INSTALL DESIGNATED BIKE LANE AND ARROW SYMBOLS PER CITY STANDARD PLAN TC-315
3. BIKE LANE STRIPING PER CITY STANDARD TC-315
4. INSTALL BIKE LANE BUFFER WITH HATCHING AND DELINEATORS. SEE DETAIL SHEET 39
5. INSTALL 2'X9' WHITE PLASTIC CROSS-WALK LINES PER WSDOT STANDARD PLAN M-15.10
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13. INSTALL SHORT FLEXIBLE YELLOW DELINEATOR
14. INSTALL DOUBLE YELLOW CENTER STRIPE PER COB STANDARD TC-305
15. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STANDARD F-45.10-03
16. NOT USED THIS SHEET
17. INSTALL 6" PLASTIC LANE LINE.
18. NOT USED THIS SHEET
19. DOTTED EXTENSION LINE PER WSDOT STANDARD M-20.10



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Date	No	Revision	By

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR DJK

DIRECTOR OF PUBLIC WORKS E.C.J.
CITY ENGINEER C.A.M.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= NA

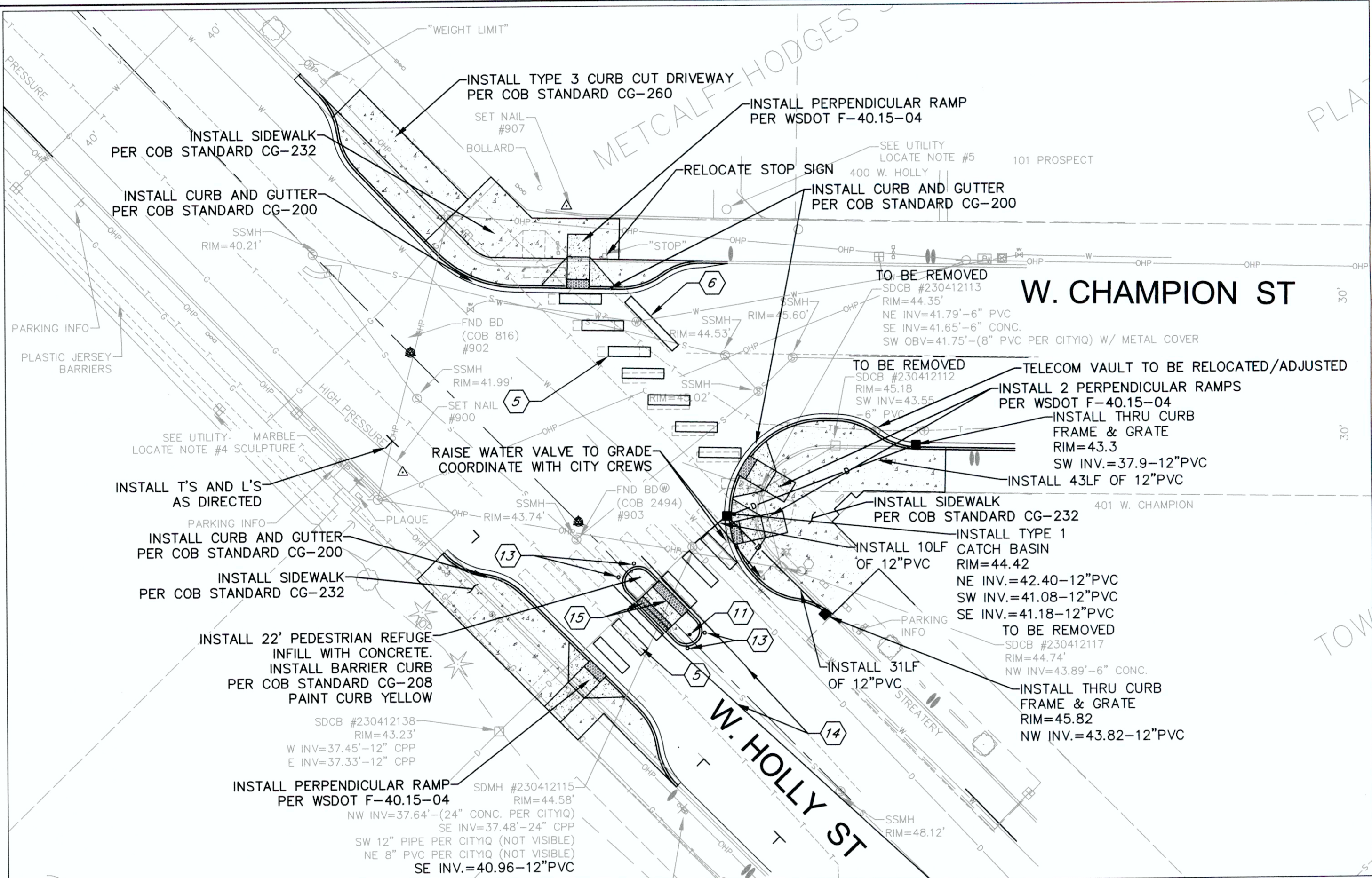
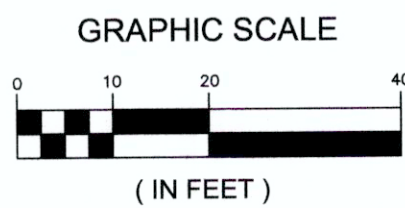
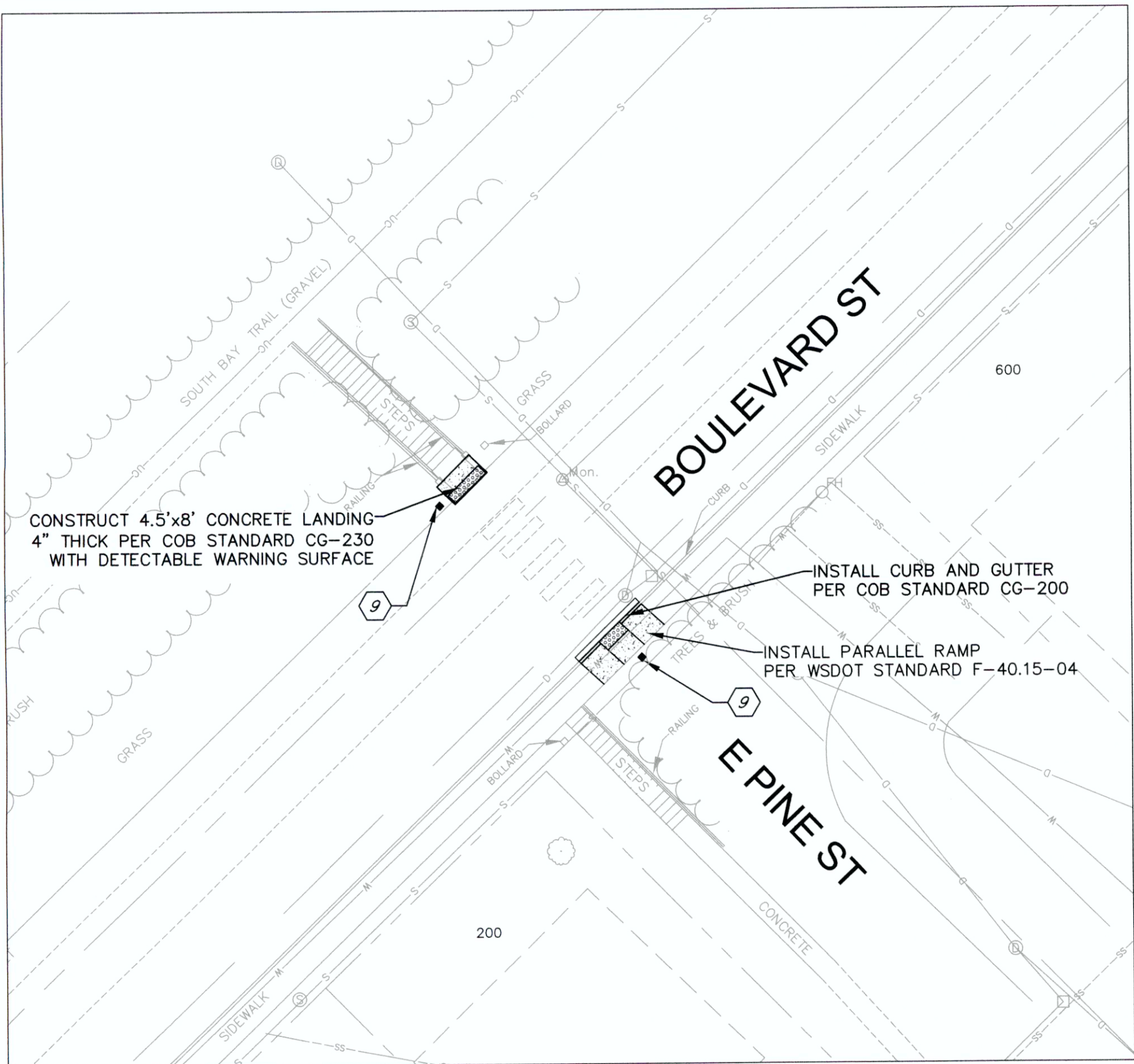
DATUM
NAD 83/98
NAVD 88

Job. No. ES-0563
Date 02/2023
Field Bk. FB 1068-2

WEST SIDE NON-MOTORIZED IMPROVEMENTS
CHANELIZATION & RRFB 7, 8, 11, & 12

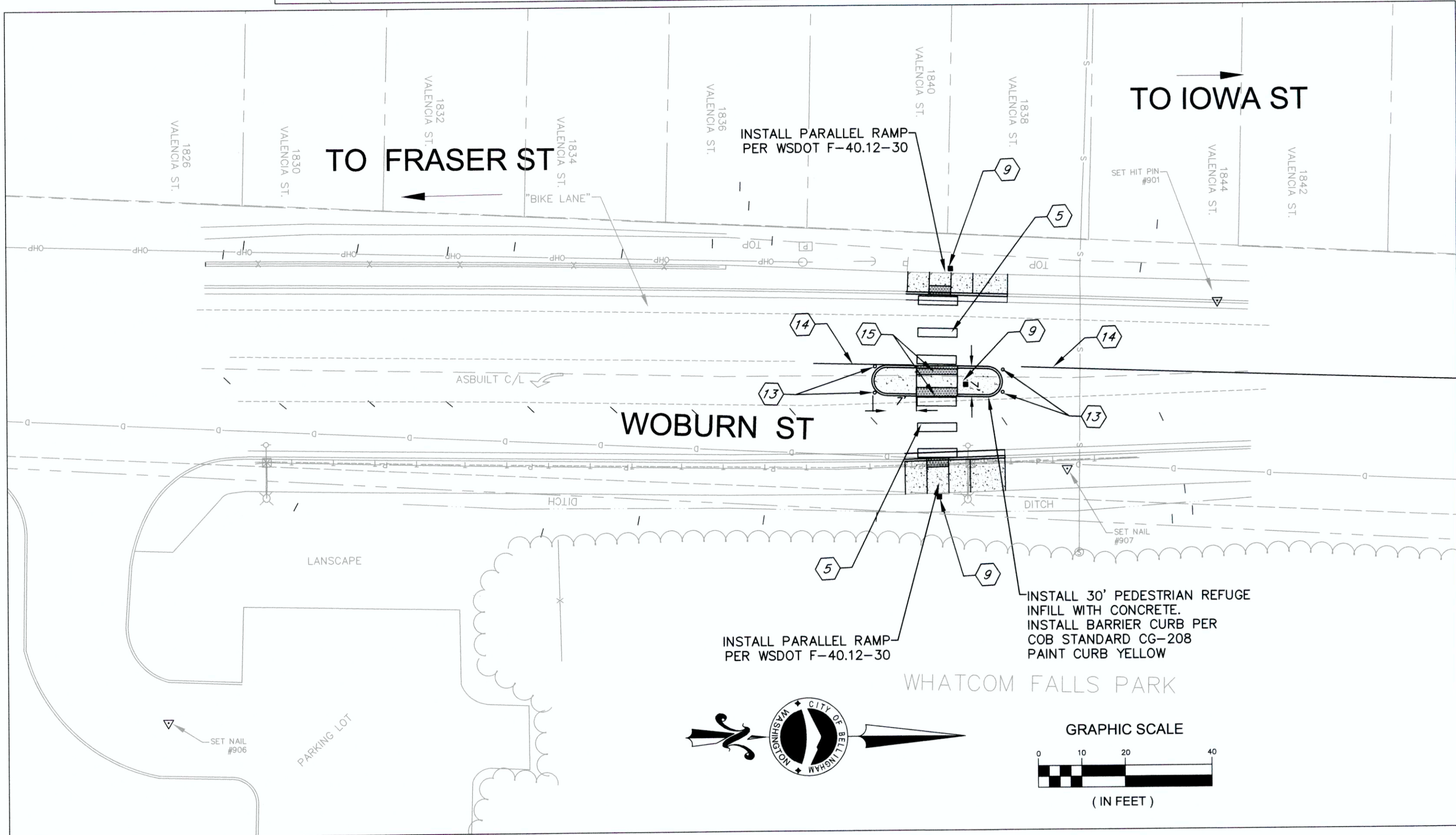
SHEET 37 OF 45

CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7923



CONSTRUCTION NOTES:

- 1 INSTALL PLASTIC SHARED LANE SYMBOL AS DIRECTED BY THE ENGINEER
- 2 INSTALL DESIGNATED BIKE LANE AND ARROW SYMBOLS PER CITY STANDARD PLAN TC-315
- 3 BIKE LANE STRIPING PER CITY STANDARD TC-315
- 4 INSTALL BIKE LANE BUFFER WITH HATCHING AND DELINEATORS. SEE DETAIL SHEET 39
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- 15 INSTALL DETECTABLE WARNING SURFACE PER WSDOT STANDARD F-45.10-03
- 16 NOT USED THIS SHEET
- 17 INSTALL 6" PLASTIC LANE LINE.
- 18 NOT USED THIS SHEET
- 19 DOTTED EXTENSION LINE PER WSDOT STANDARD M-20.10



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Date	No	Revision	By

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR DJK

DIRECTOR OF PUBLIC WORKS E.C.J.
CITY ENGINEER C.A.M.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= NA

DATUM
NAD 83/98
NAVD 88

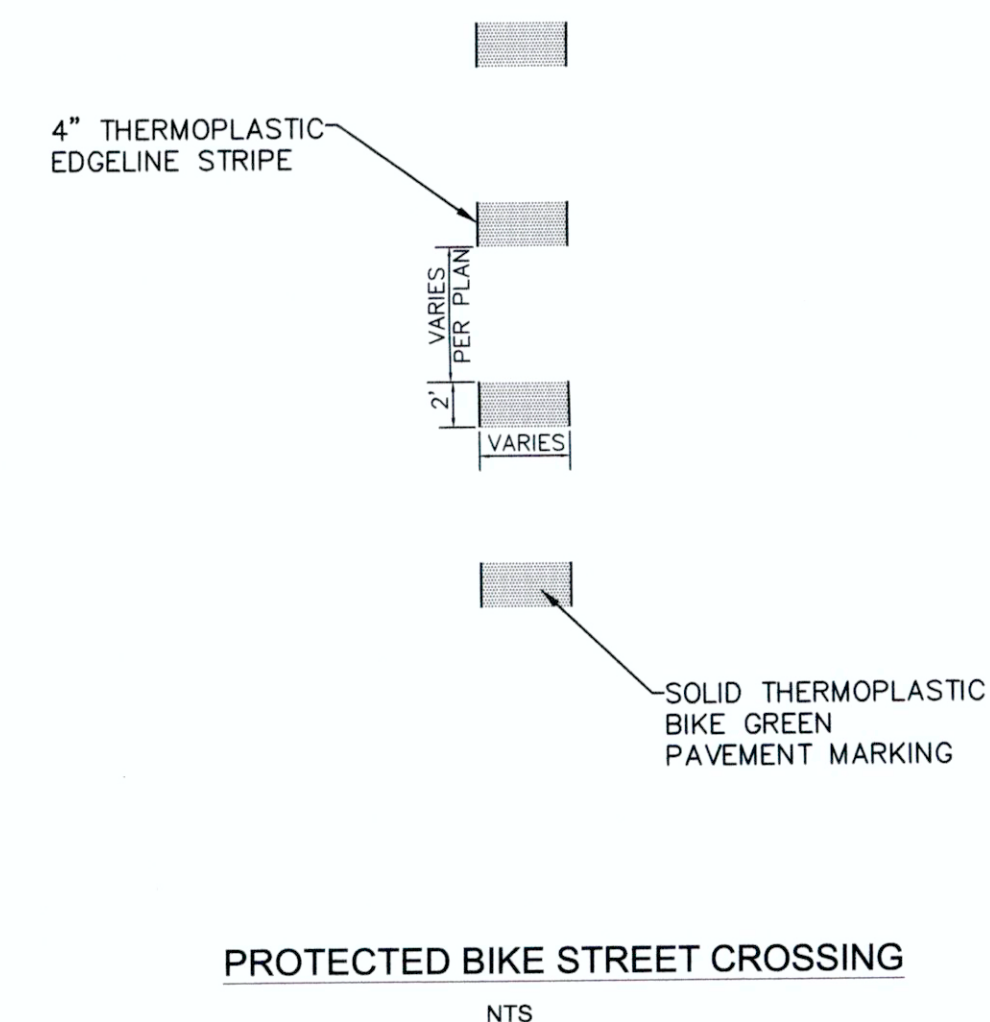
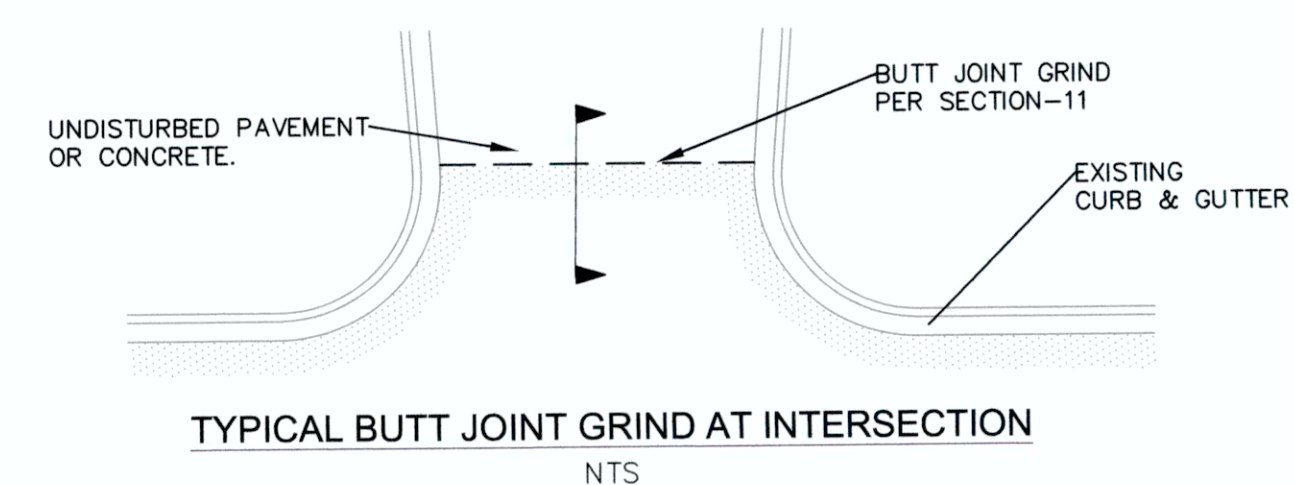
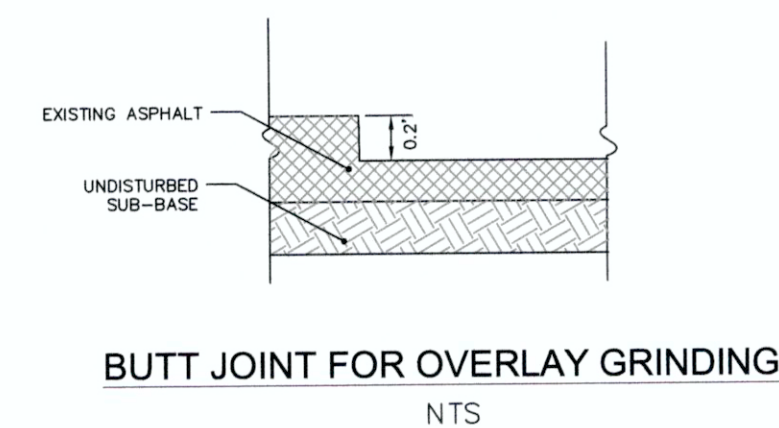
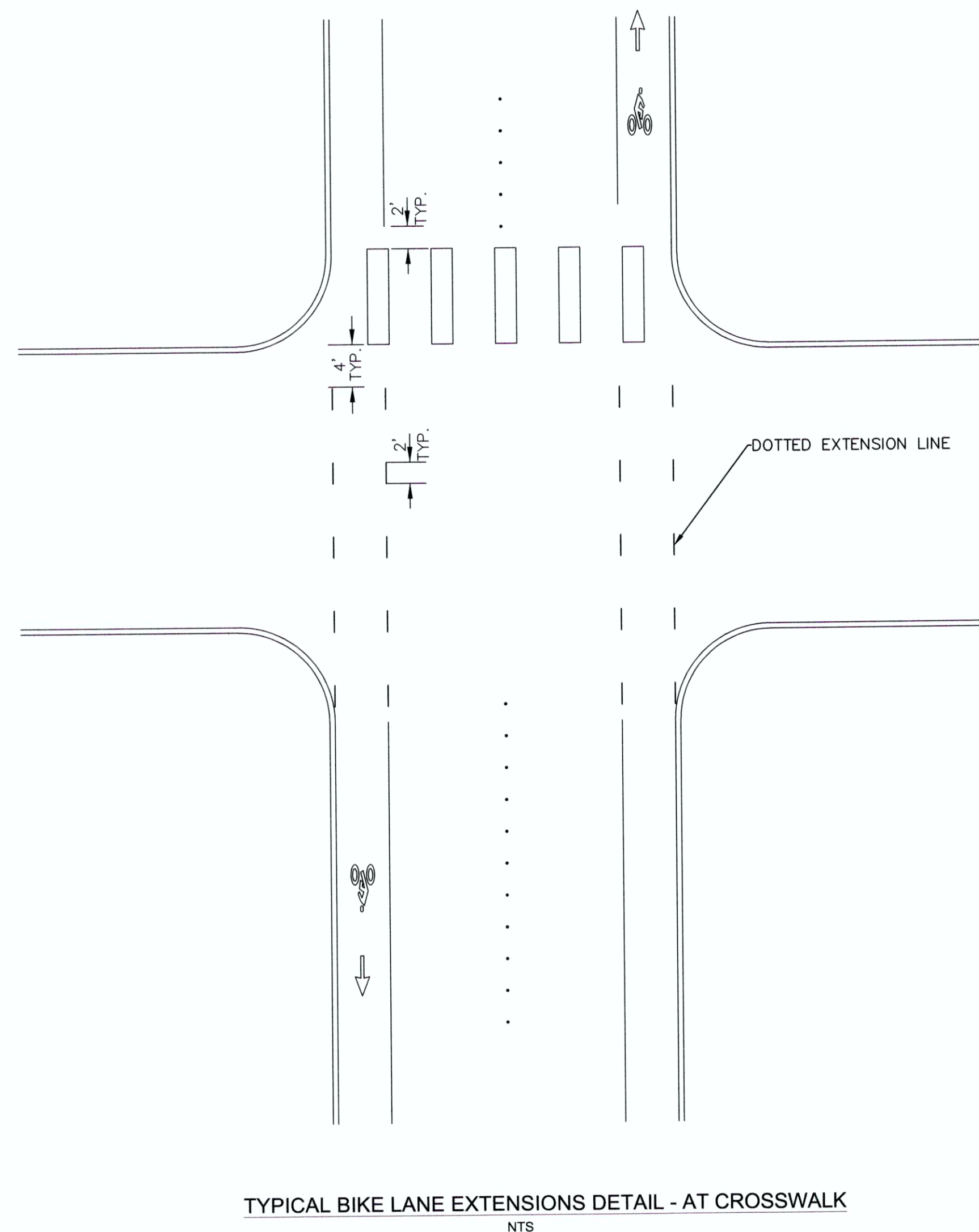
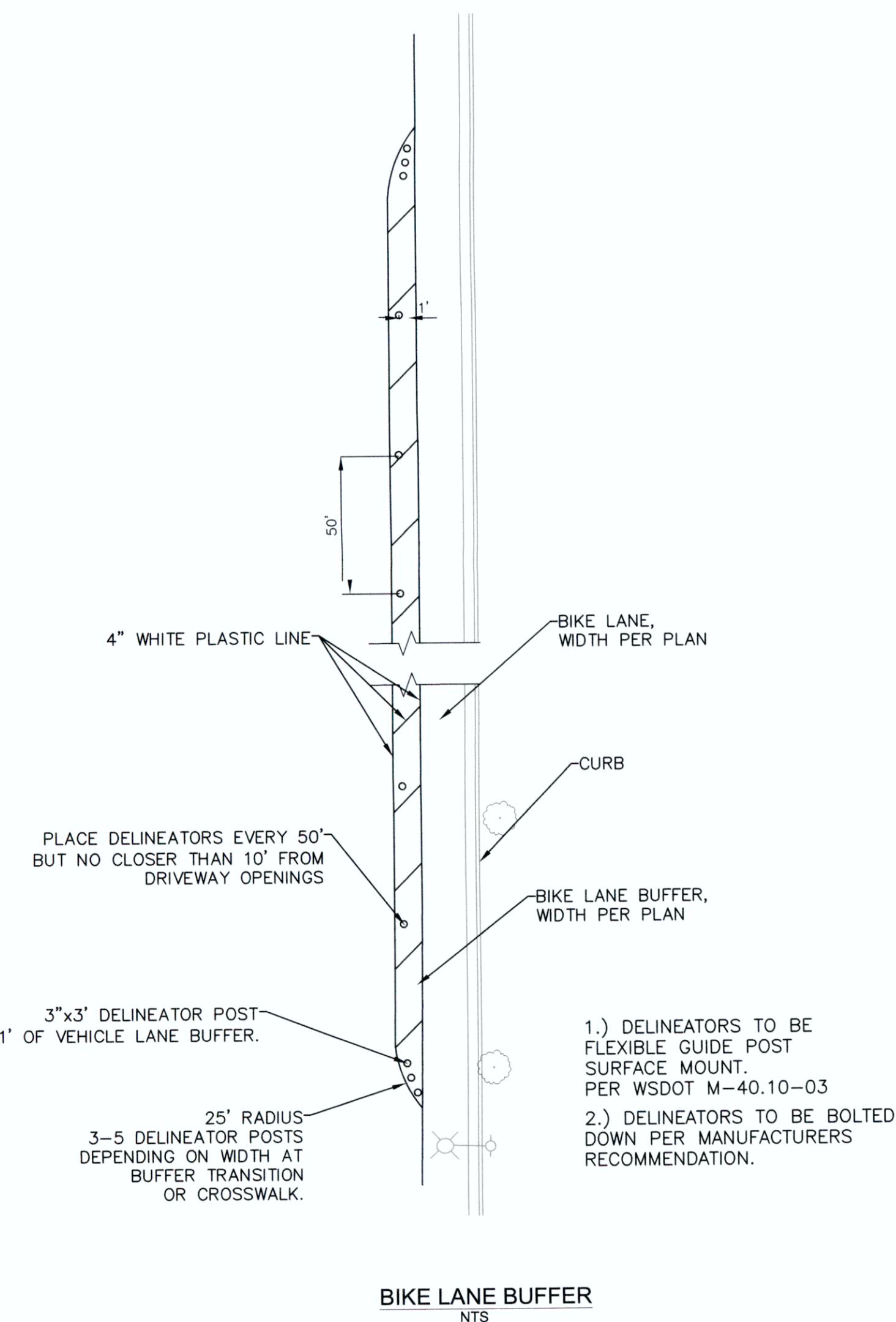
Job. No. ES-0563
Date 02/2023
Field Bk. FB 1068-2

WEST SIDE NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION & RRFB INTERSECTIONS 9, 10, & 13

SHEET 38 OF 45

CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7900





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Date	No	Revision	By
	1		

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR ?

DIRECTOR OF PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= 20'
Vert. 1"= NA

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0563
Date 02/2023
Field Bk. FB

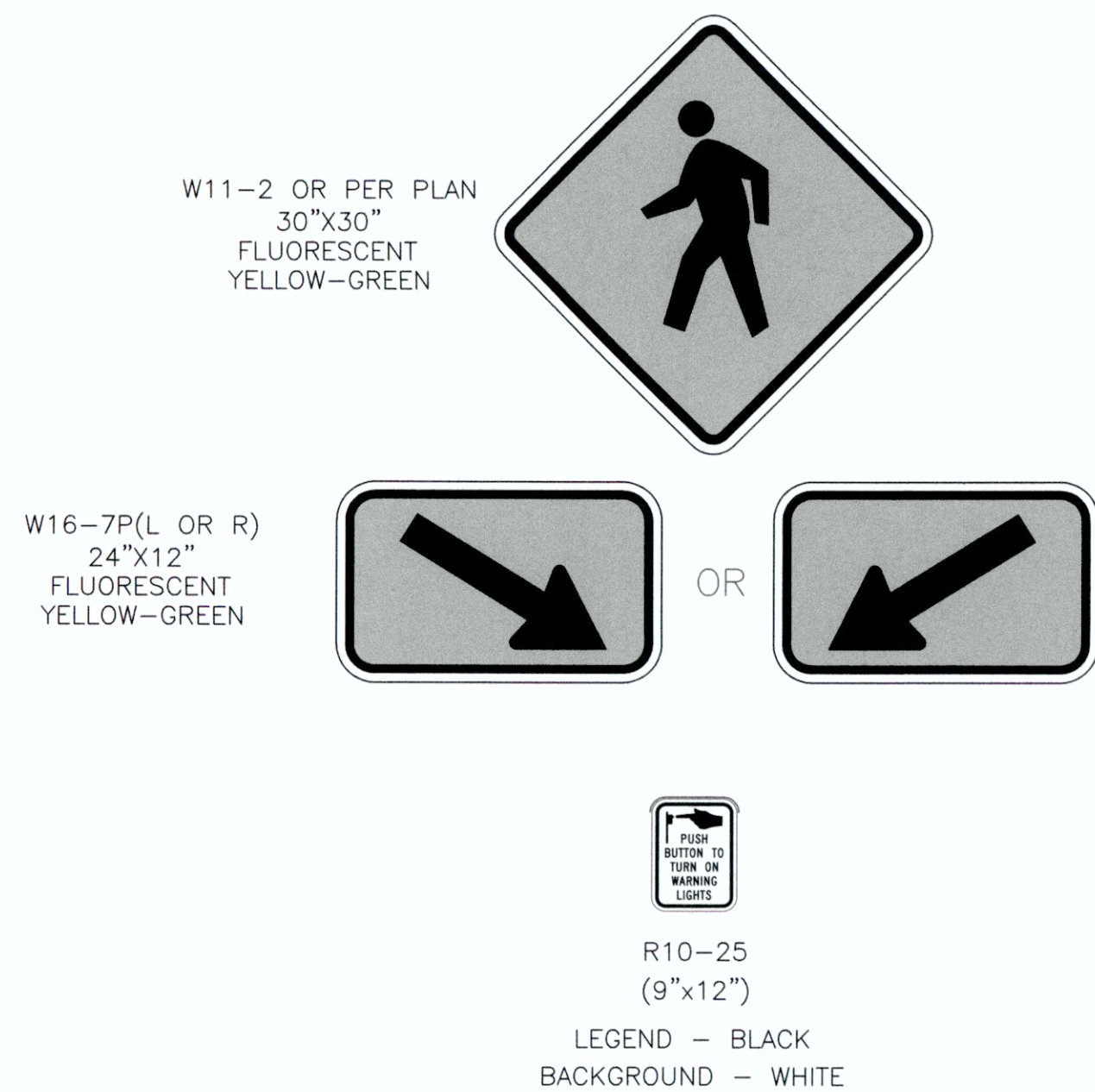
WESTSIDE NON MOTORIZED IMPROVEMENTS
CHANNELIZATION AND PAVING DETAILS

SHEET 39 OF 45

CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7923

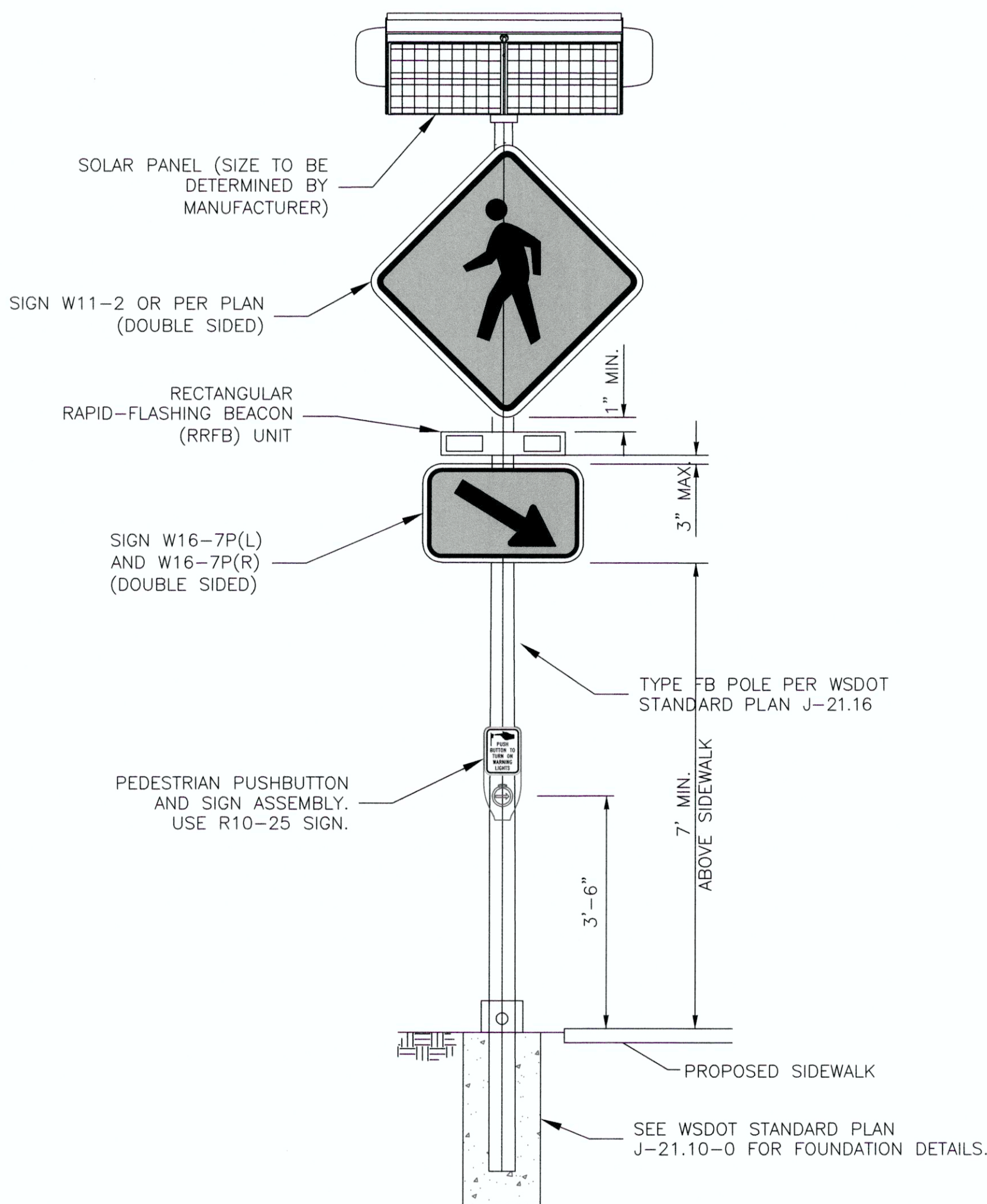


24 May 2023

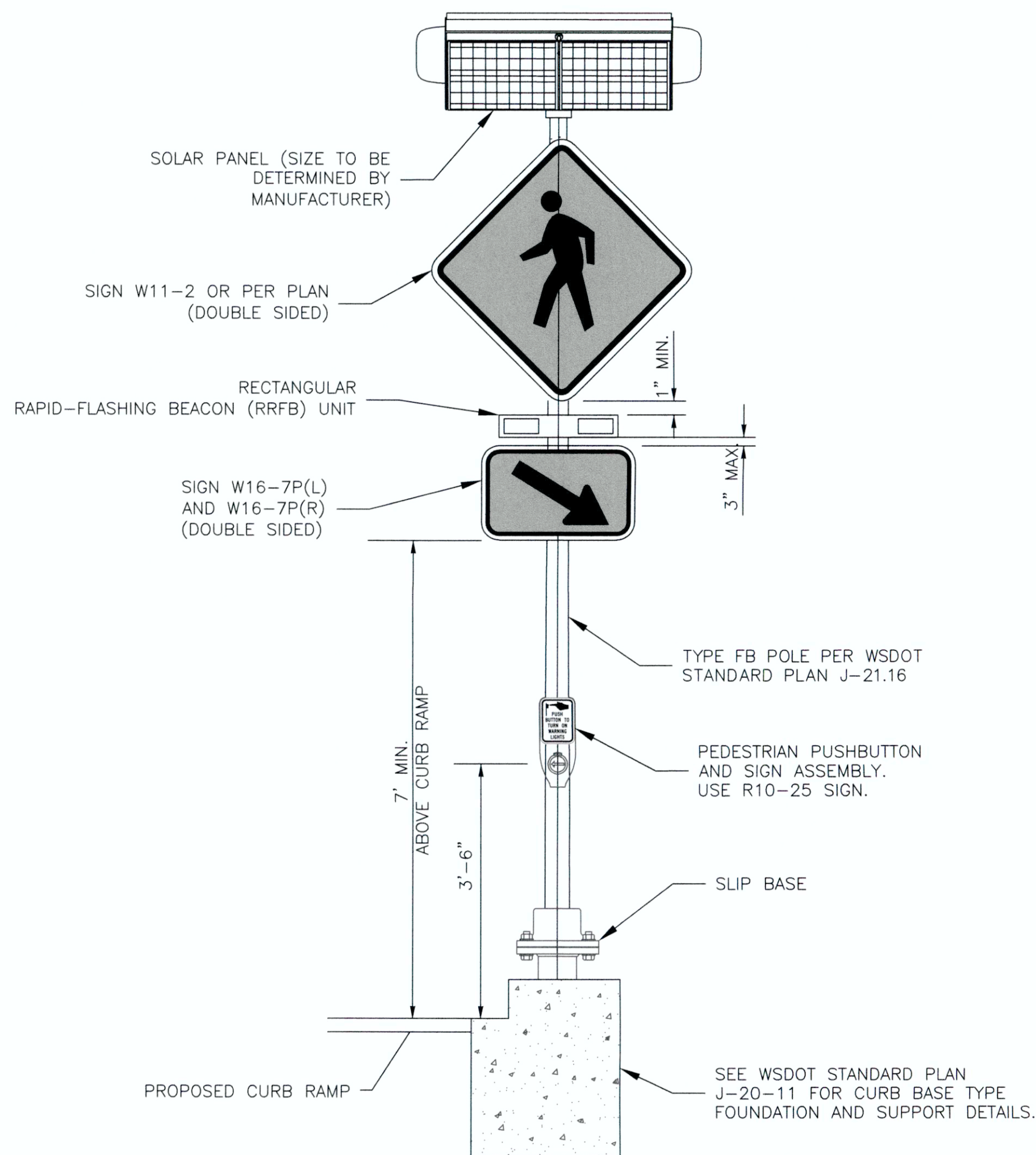


RRFB DETAIL NOTES:

1. RRFB SIGNS, AS SHOWN ON THIS DETAIL AND THE PLANS, SHALL BE PROVIDED BY THE CONTRACTOR.
2. ALL OTHER GROUND-MOUNTED SMALL SIGNS SHALL BE PROVIDED BY THE CITY OF BELLINGHAM.
3. ORIENT SOLAR PANEL PER MANUFACTURER'S RECOMMENDATION.
4. TREE TRIMMING MAY BE REQUIRED FOR OPTIMAL SOLAR PANEL PLACEMENT.
5. PEDESTRIAN PUSHBUTTONS SHALL BE PLACED WITHIN IN 9 INCH REACH FROM CURB RAMP LANDING AREAS, PER ADA ACCESSIBILITY GUIDELINES. THOSE INTENDED FOR BICYCLE USE SHALL BE PLACED 18 INCH REACH FROM FACE OF CURB.
6. THE CONTRACTOR SHALL VERIFY FOUNDATION LOCATIONS ARE FREE OF UTILITY CONFLICTS.
7. WHERE PEDESTRIAN REFUGE PRESENT, INSTALL DOUBLE SIDED RRFB ON REFUGE AND SINGLE SIDED ON EACH SIDE OF THE STREET.
8. ANY PUSHBUTTON SHALL ACTIVATE ALL RRFB'S IN AN INTERSECTION WHEN DUAL CROSSINGS ARE PROVIDED.
9. FINAL SIGN/BUTTON LOCATION WILL BE FIELD VERIFIED TO MEET NECESSARY SIGHT DISTANCE AND ACCESIBILITY



TYPICAL INSTALLATION



CURB BASE TYPE INSTALLATION

RECTANGULAR RAPID FLASHING BEACON (RRFB) AND SIGN DETAIL

N.T.S.



	4		
	3		
	2		
	1		
Date	No	Revision	By

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR ?

DIRECTOR OF PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

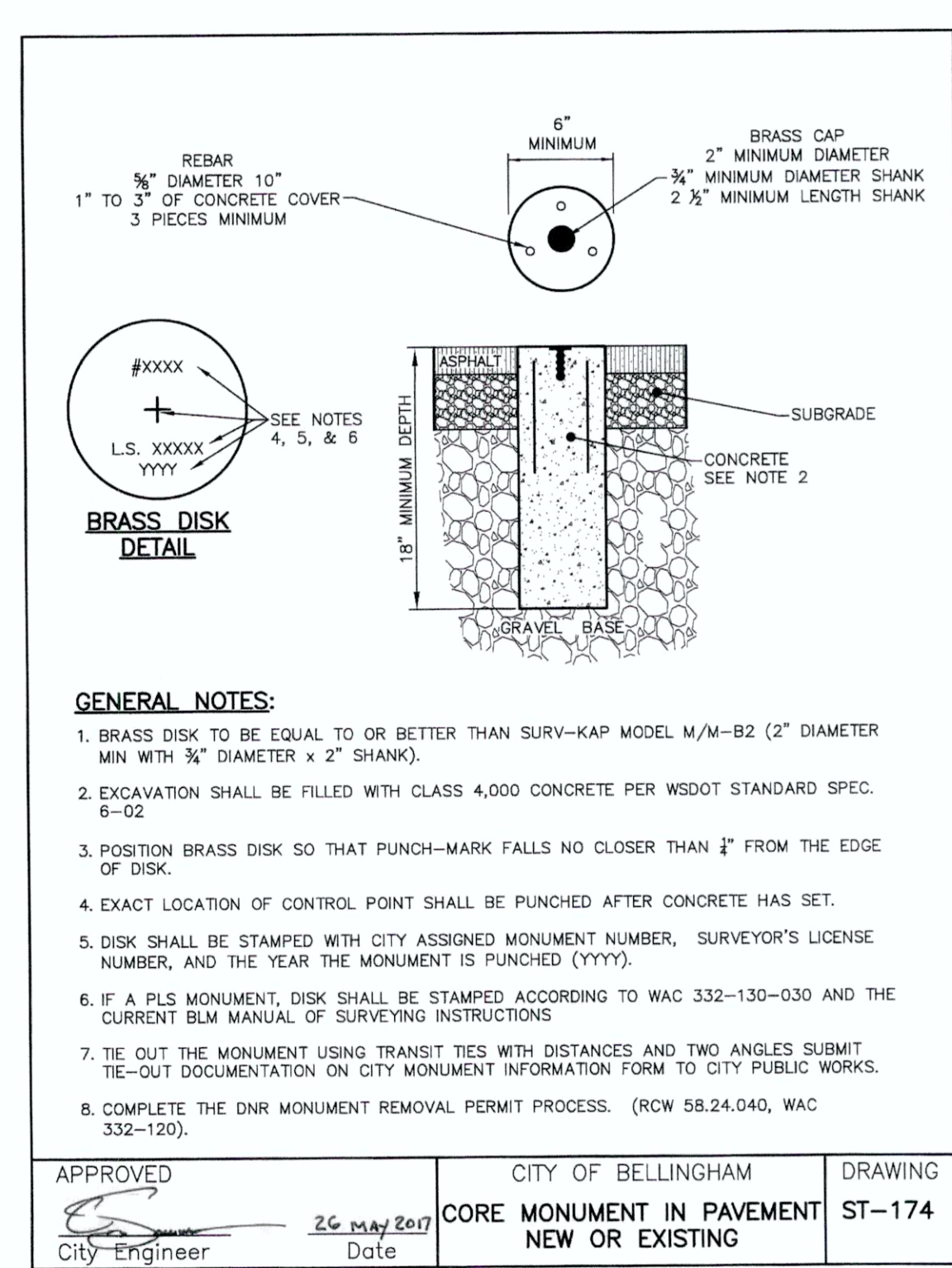
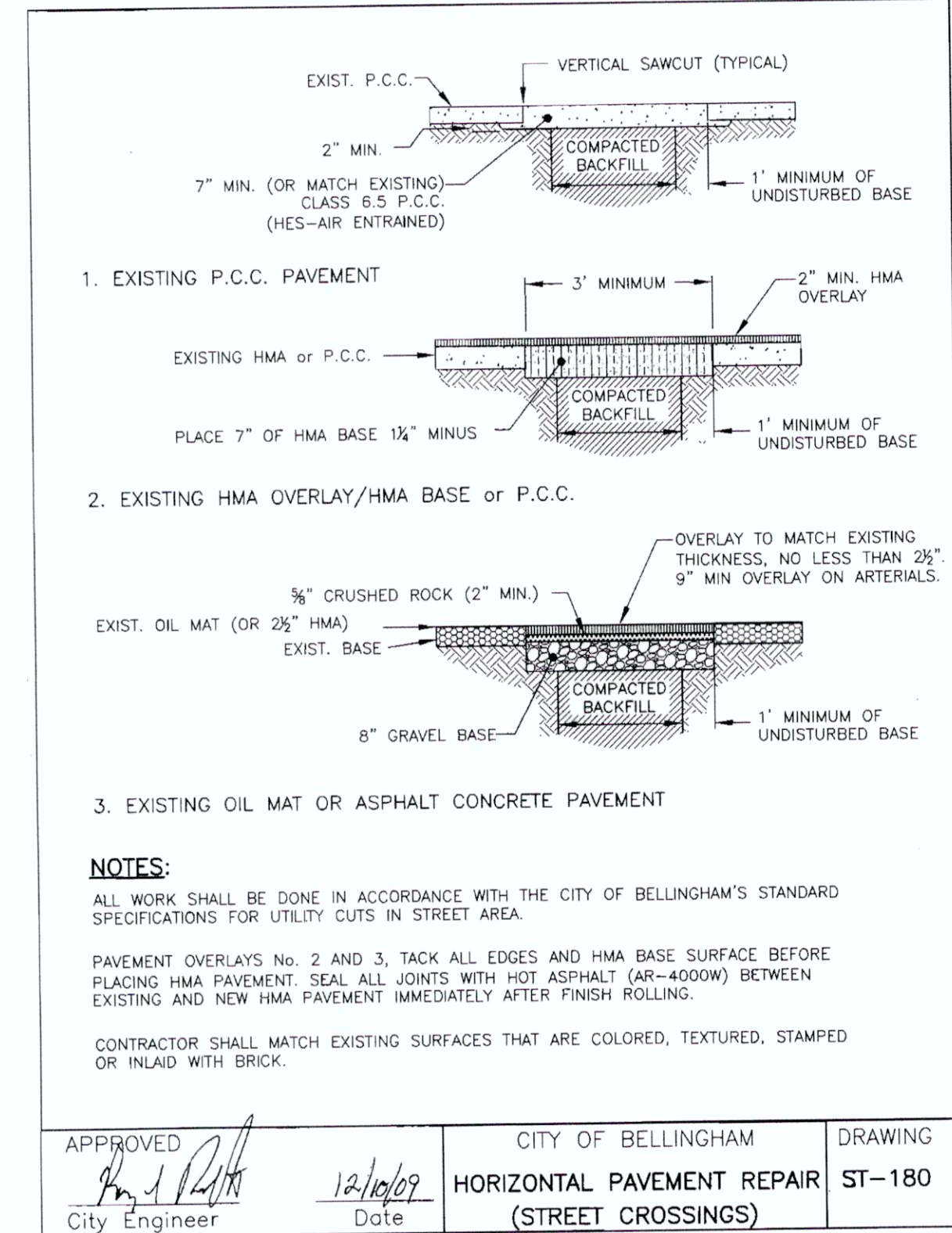
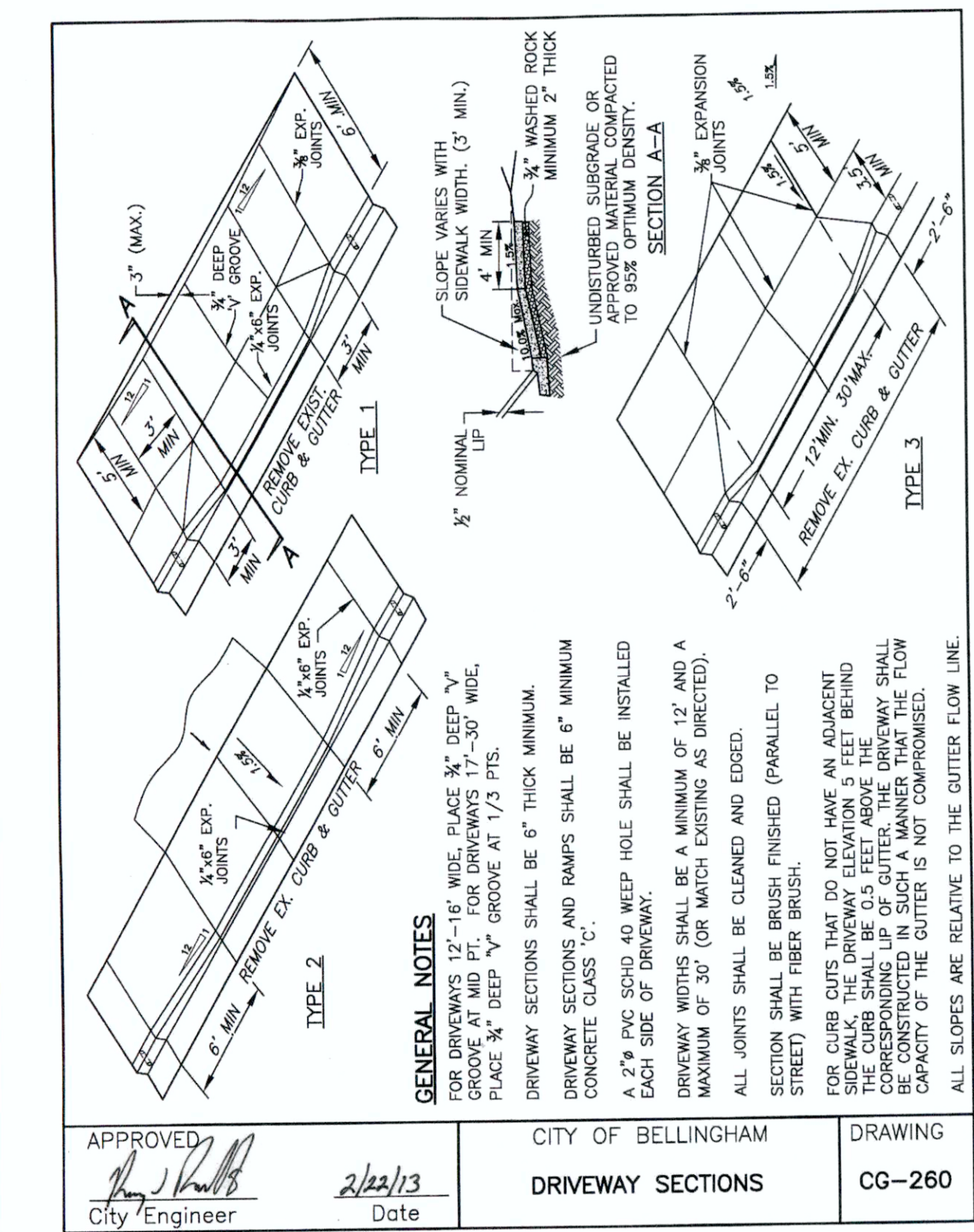
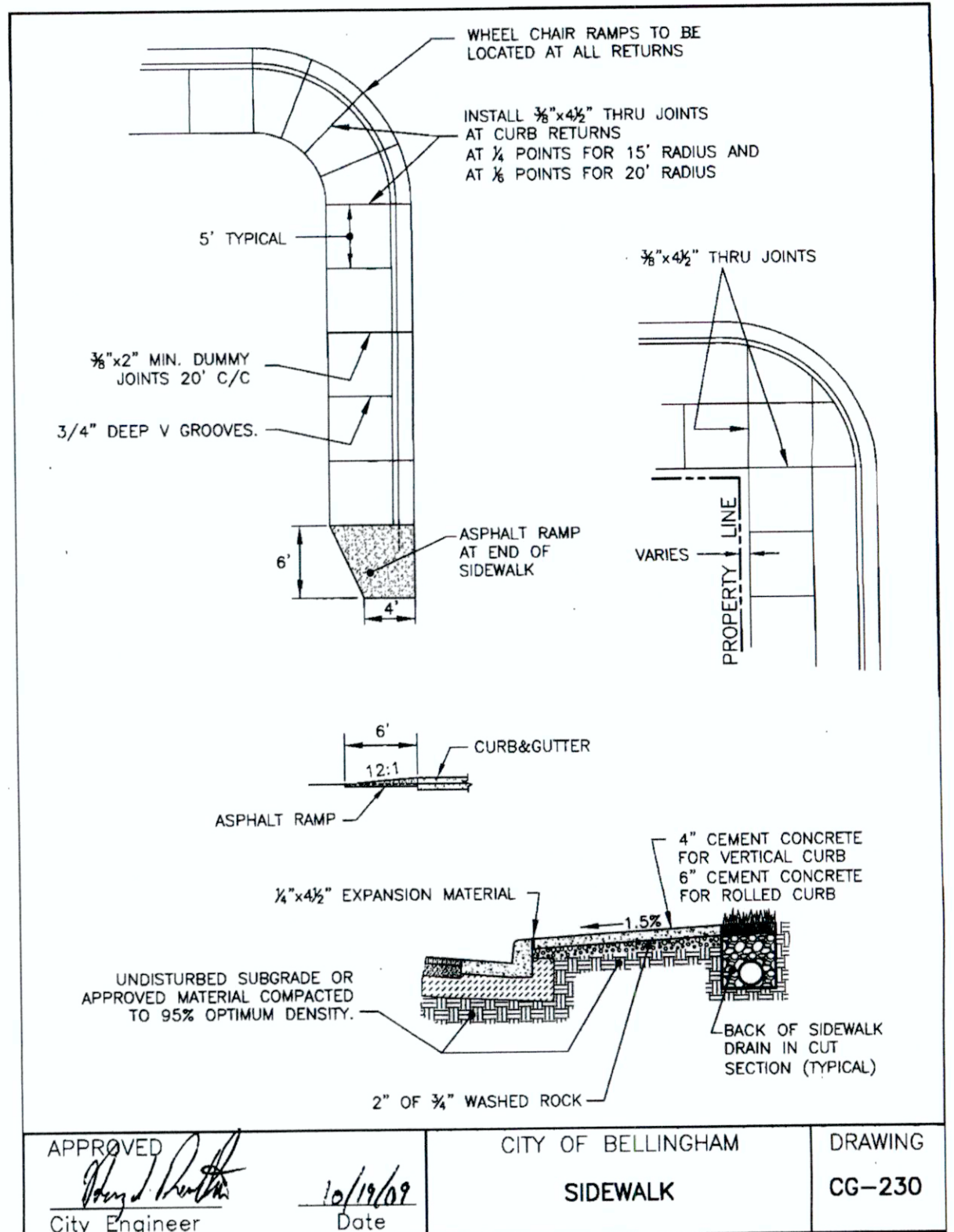
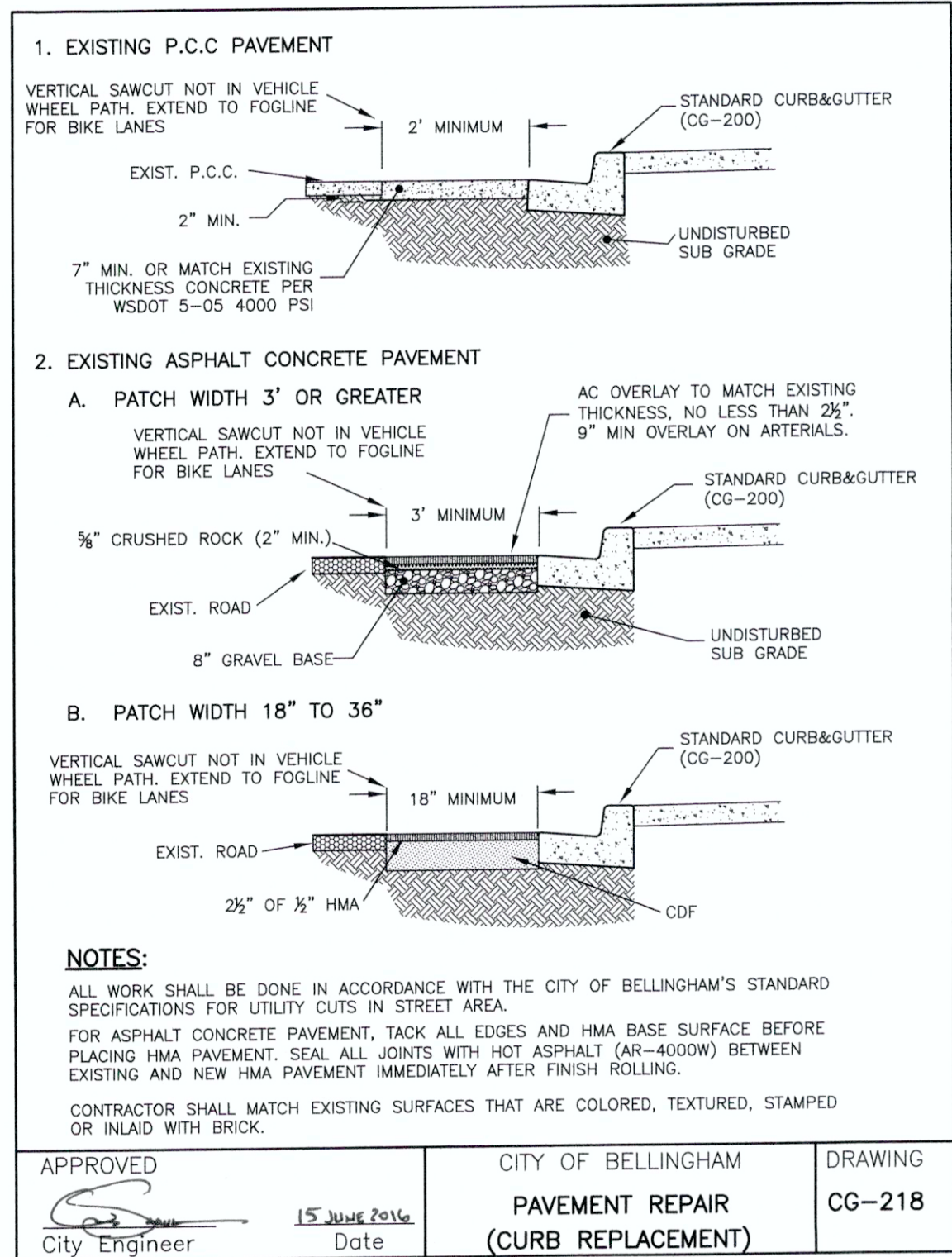
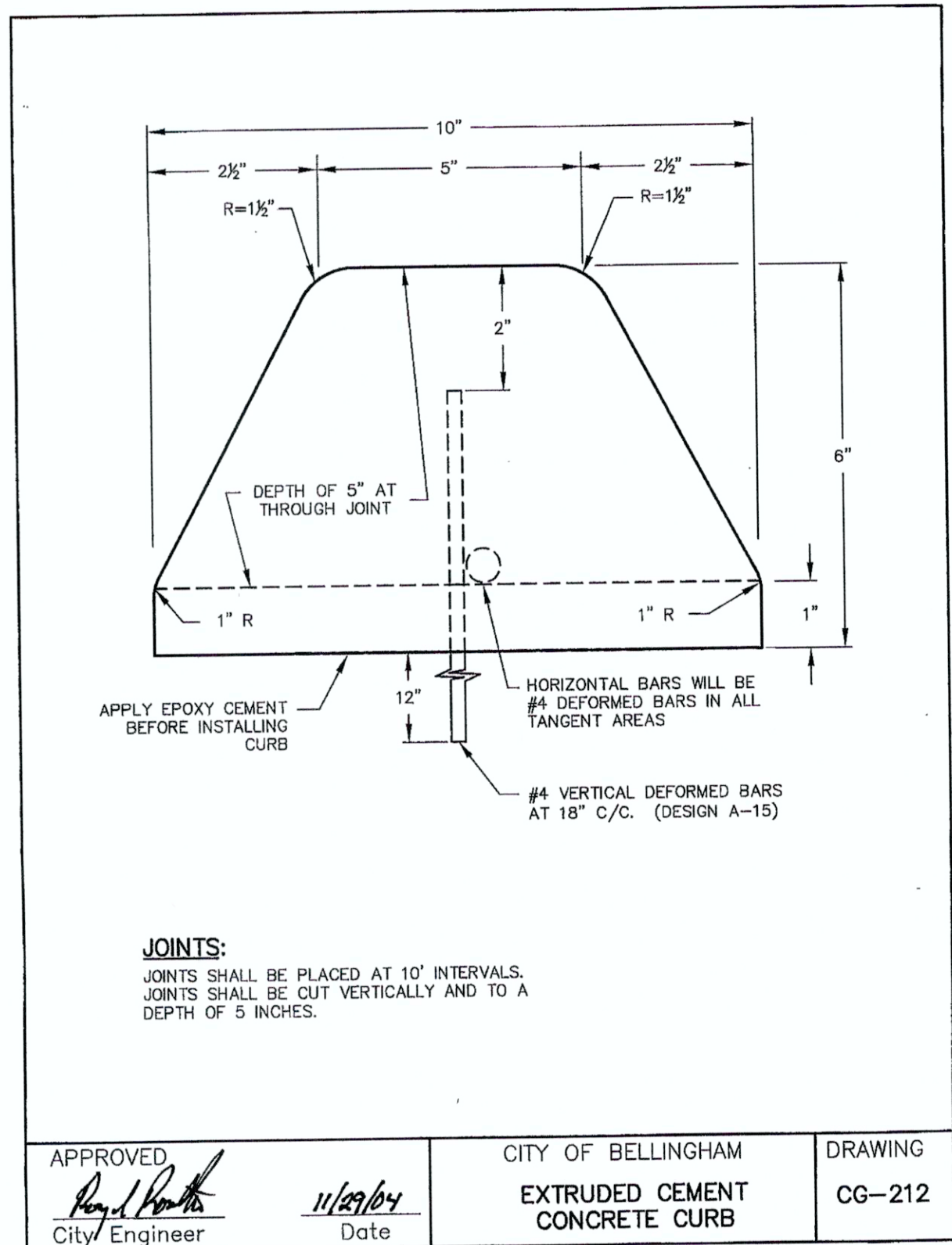
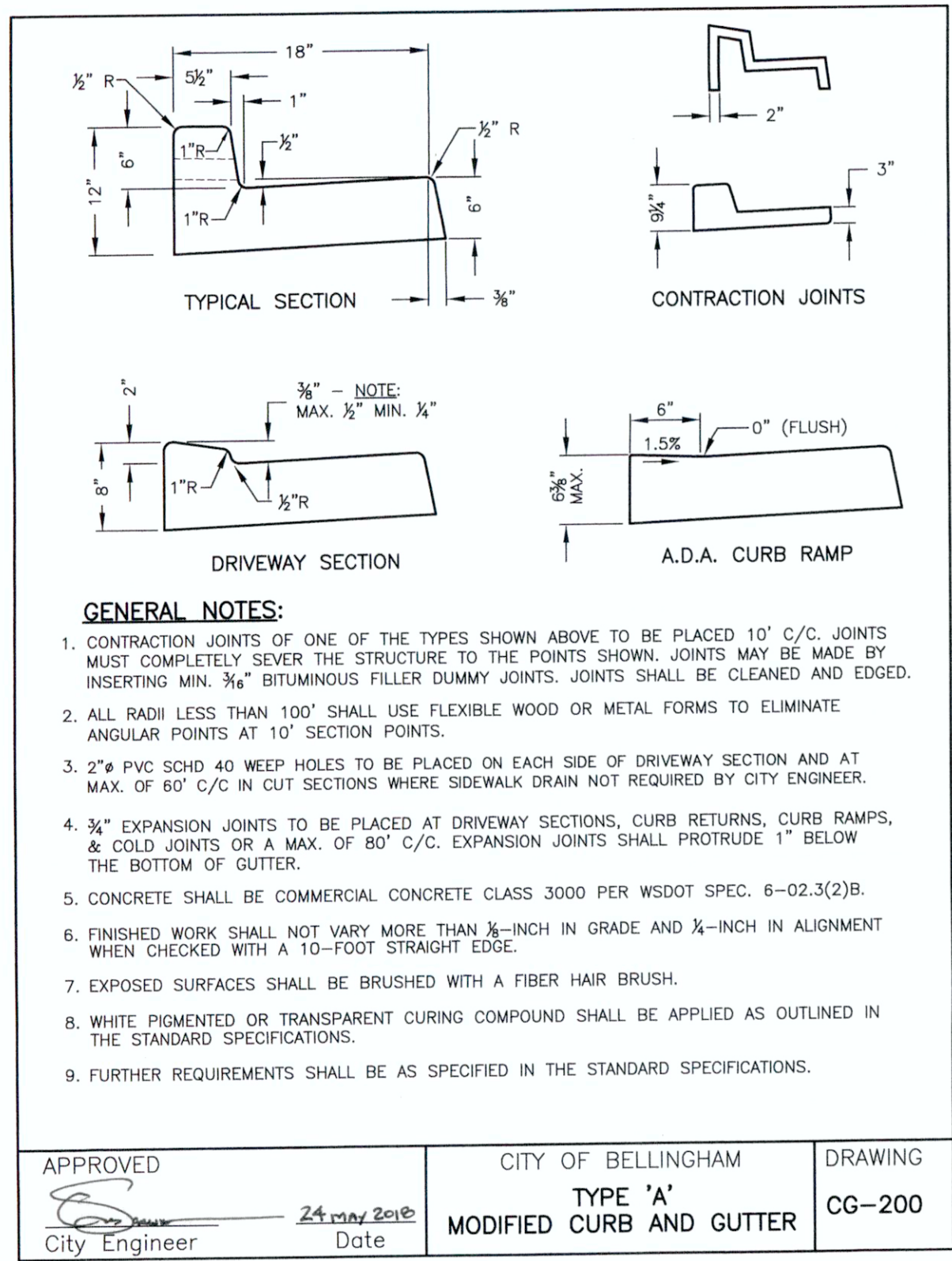
SCALE
Horiz. 1"= 20'
Vert. 1"= NA

DATUM
NAD 83/98
NAVD 88

Job. No. ES-0563
Date 02/2023
Field Bk. FB

WESTSIDE NON MOTORIZED IMPROVEMENTS
RRFB DETAILS

SHEET 40 OF 45



	4		
	3		
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	1		
Date	No	Revision	By

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR ?

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CITY ENGINEER C.M.A.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

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NAD 83/98
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Date 02/2023
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WESTSIDE NON MOTORIZED IMPROVEMENTS
CITY OF BELLINGHAM STANDARD DETAILS

SHEET 41 OF 45

NOTE FOR NIGHT CLOSURE:
1. FLASHING LIGHTS ON SIGNS.
2. STEADY BURNING LIGHTS FOR DELINEATION AND CHANNELIZATION.

SIGN SPACING

SPEED MPH	DISTANCE FROM TAPER TO 1ST SIGN	2ND SIGN	3RD SIGN
25MPH	200'	400'	400'
35MPH	300'	600'	600'

TAPER LENGTHS

SPEED MPH	LANE WIDTHS
25	10' 11' 12'
35	260' 275' 300' 350' 365' 420'

TRAFFIC CONE SPACING

SPEED MPH	SPACING
25	25'
35	35'

LOCATION OF FLAGGER

NOTES:
LOW VOLUMES (2 LANES), USE ONE FLAGGER AT CENTER OF INTERSECTION
HIGH VOLUMES (4 LANES), USE FOUR FLAGGERS ON INTERSECTION LEGS AS SHOWN.
"ONE LANE ROAD AHEAD" SIGN MAY ALSO BE NECESSARY TO PROVIDE ADEQUATE ADVANCE WARNING.

APPROVED: [Signature] City Engineer
CITY OF BELLINGHAM
FLAGGER CONTROL FOR LANE CLOSURES
DRAWING: TC-330
Date: 11/16/05
NOT TO SCALE

TYPICAL TRAFFIC FLOW

TYPE 2W (WHITE, ONE SIDE ONLY)

TYPE 1 WHITE

LANE STRIPE

TYPE 2 YY (YELLOW BOTH SIDES) (TURN LANES)

TYPE 1 YELLOW

TWO WAY LEFT TURN STRIPE

DOUBLE YELLOW CENTER STRIPE

GORE STRIPE

SKIP CENTER STRIPE

APPROVED: [Signature] City Engineer
CITY OF BELLINGHAM
PAVEMENT MARKING DETAILS
DRAWING: TC-305
Date: 11/29/04

24" WHITE STOP BAR EXTENDS ACROSS ALL APPROACH LANES.

2"x9" WHITE CROSSWALK STRIPES

CENTER 2"x9" BARS ON CENTER OF LANE AND LANE DIVIDER STRIPE

LEADING EDGE OF CROSSWALK EVEN WITH LINE BETWEEN MIDPOINTS AT GUTTER LINE OF ASSOCIATED CURB RETURNS, OR AS LOCATED BY THE FIELD ENGINEER.

APPROVED: [Signature] City Engineer
CITY OF BELLINGHAM
CONTINENTAL CROSSWALK DETAIL
DRAWING: TC-310
Date: 5/26/09

SOLID WHITE STRIPE

MOTOR VEHICLE LANES

PARKING PROHIBITED

5' MIN. BICYCLE LANE

TYPICAL ROADWAY IN OUTLYING AREAS

PARKING RESTRICTED

5' MIN. BICYCLE LANE

ARROW SYMBOL

REQUIRED 72" AFTER ALL BICYCLE LANE SYMBOLS

DESIGNATED BICYCLE LANE SYMBOL

REQUIRED AFTER ALL INTERSECTIONS AND EVERY 500 FEET.

WHERE A BUFFER IS PROVIDED ADJACENT TO THE BIKE LANE, ALL STRIPING SHALL BE 4" WIDE PLASTIC - OUTER STRIPE, BUFFER HATCHING, INNER STRIPE.

FOR SINGLE STRIPE BIKE LANES, THE PLASTIC STRIPE SHALL BE 6" WIDE-EXCEPT ARTERIALS WHERE THE SPEED LIMIT IS 30 MPH OR HIGHER, THE PLASTIC STRIPE SHALL BE 8" WIDE.

FOR ALL MARKINGS AND BIKE LANE STRIPES USE:
• WHITE PLASTIC PREMARK OR HOT TAPE BRAND FOR EXISTING ASPHALT.
• IN-LAID 3M TAPE FOR NEW ASPHALT.

APPROVED: [Signature] City Engineer
CITY OF BELLINGHAM
BICYCLE LANE STANDARDS
DRAWING: TC-315
Date: 24 FEB 2010
N.T.S.

CL

TRAVEL LANE WIDTH

SHARED LANE MARKING PLACEMENT

SLMS SHALL BE PLACED IN THE CENTER OF EACH TRAVEL LANE, AND

- ON STREETS WITH PARALLEL PARKING, SLMS SHALL BE CENTERED AT LEAST 11" FROM FACE OF CURB OR EDGE OF ROADWAY.
- ON STREETS WITH NO PARKING, SLMS SHALL BE CENTERED AT LEAST 4" FROM FACE OF CURB OR EDGE OF PAVEMENT.
- ON STREETS WITH ANGLED PARKING, SLMS SHALL BE CENTERED AT LEAST 22" FROM FACE OF CURB OR EDGE OF PAVEMENT.

RIGHT OR LEFT TURN SHARED LANE MARKING (SLM) SYMBOL

SHARED LANE MARKING (SLM) SYMBOL

REQUIRED AFTER EACH INTERSECTION, AND AT INTERVALS NOT EXCEEDING 500'

ALL MARKINGS SHALL BE WHITE PLASTIC PREMARK, OR ENGINEER APPROVED EQUAL.

APPROVED: [Signature] City Engineer
CITY OF BELLINGHAM
SHARED LANE MARKING STANDARD
DRAWING: TC-316
Date: 22 MAR 2009

CONCRETE CURB & GUTTER

DESIGN GRADE (SEE PLANS)

C.I. FRAME & GRATE

SECTION B-B

TOP OF CURB

FLOW LINE OF GUTTER

INLET HOOD

SECTION A-A

INLET HOOD

5 1/2"

TOP OF GRATE

FRAME

APPROVED: [Signature] City Engineer
CITY OF BELLINGHAM
THRU-CURB INLET FRAME AND GRATE WITH VERTICAL CURB INSTALLATION
DRAWING: DR-500
Date: 5/29/14

BEDDING SPECIFICATIONS FOR PVC PIPE

THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS ARE TO BE USED IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, CURRENT EDITION:

BEDDING FOR SEWERS, DRAINS AND CULVERTS FOR PVC PIPE-

BEDDING MATERIAL FOR PVC PIPE SHALL BE PEA GRAVEL CONFORMING TO THE FOLLOWING SPECIFICATIONS.

PEA GRAVEL - PEA GRAVEL BEDDING SHALL BE A CLEAN MIXTURE FREE FROM ORGANIC MATTER AND CONFORMING TO THE FOLLOWING GRADATION WHEN TESTED IN ACCORDANCE WITH ASTM D422:

U.S. STANDARD SIEVE SIZE	PERCENT PASSING, BY WT.
1/2"	100
3/8"	95-100
#10	0-10
#200	0-3

MATCH EXISTING SURFACE MATERIAL (SEE DWG. ST-180)

CONTROLLED DENSITY FILL

DI PIPE WHEN 1' COVER

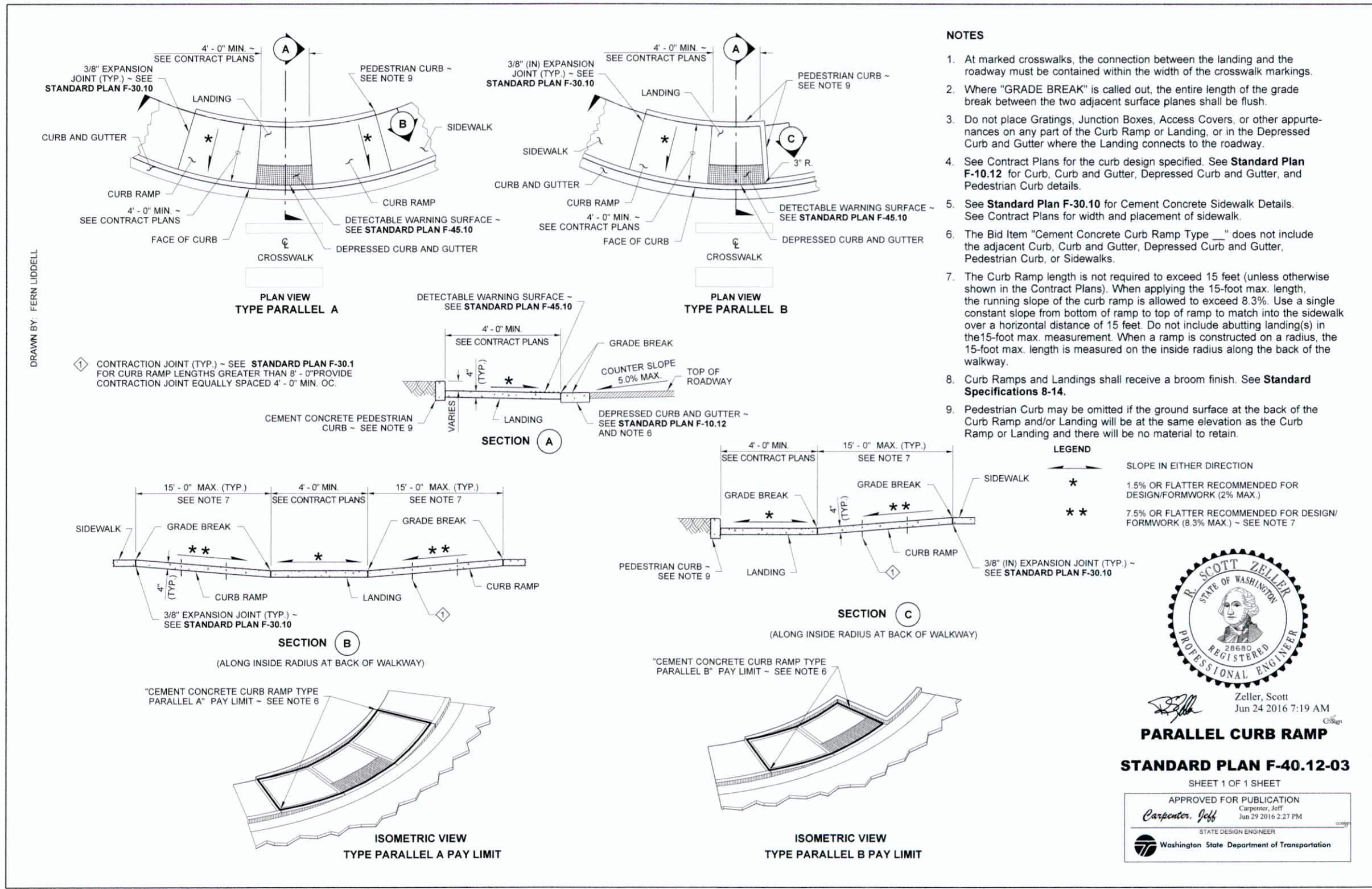
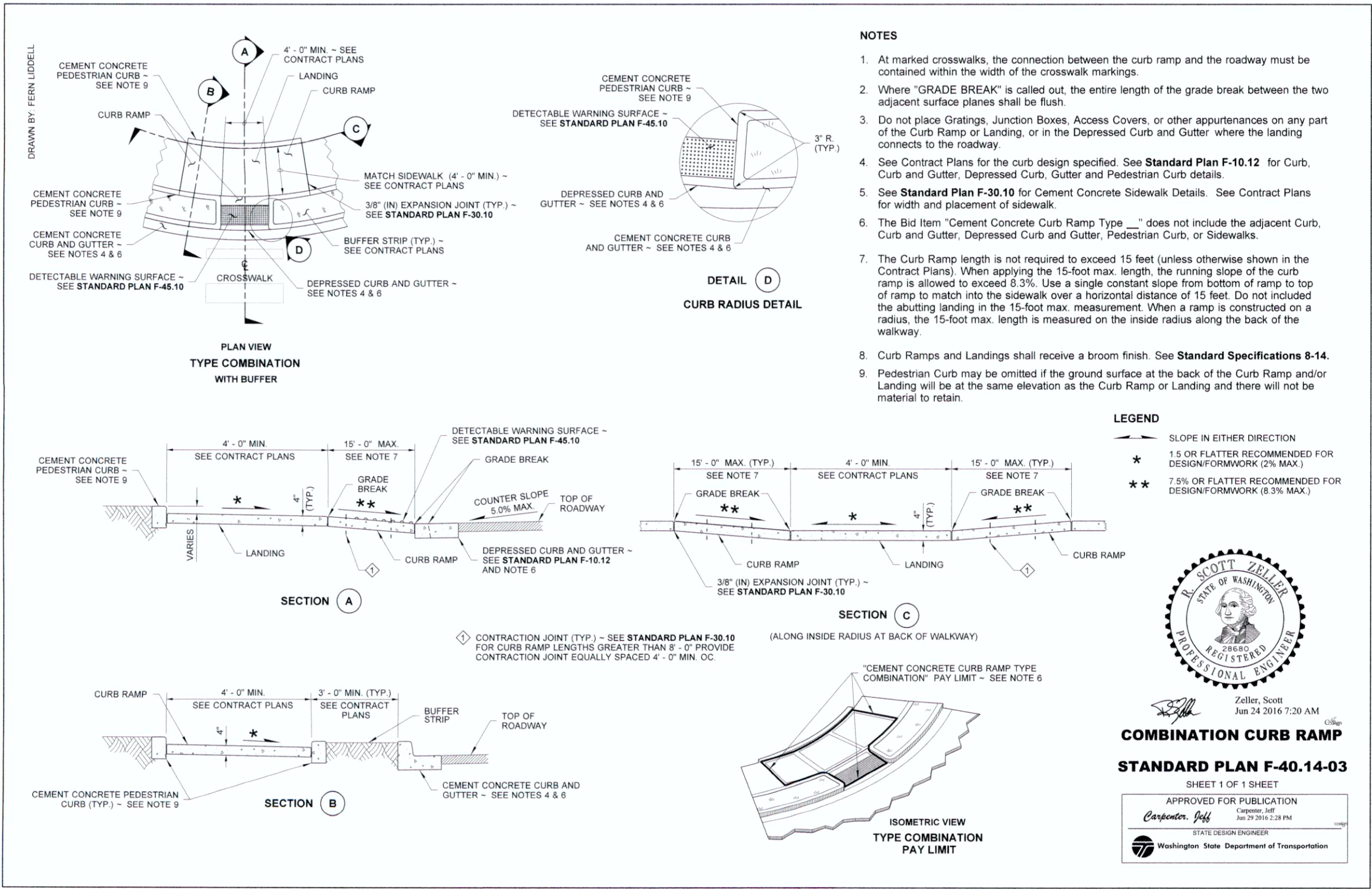
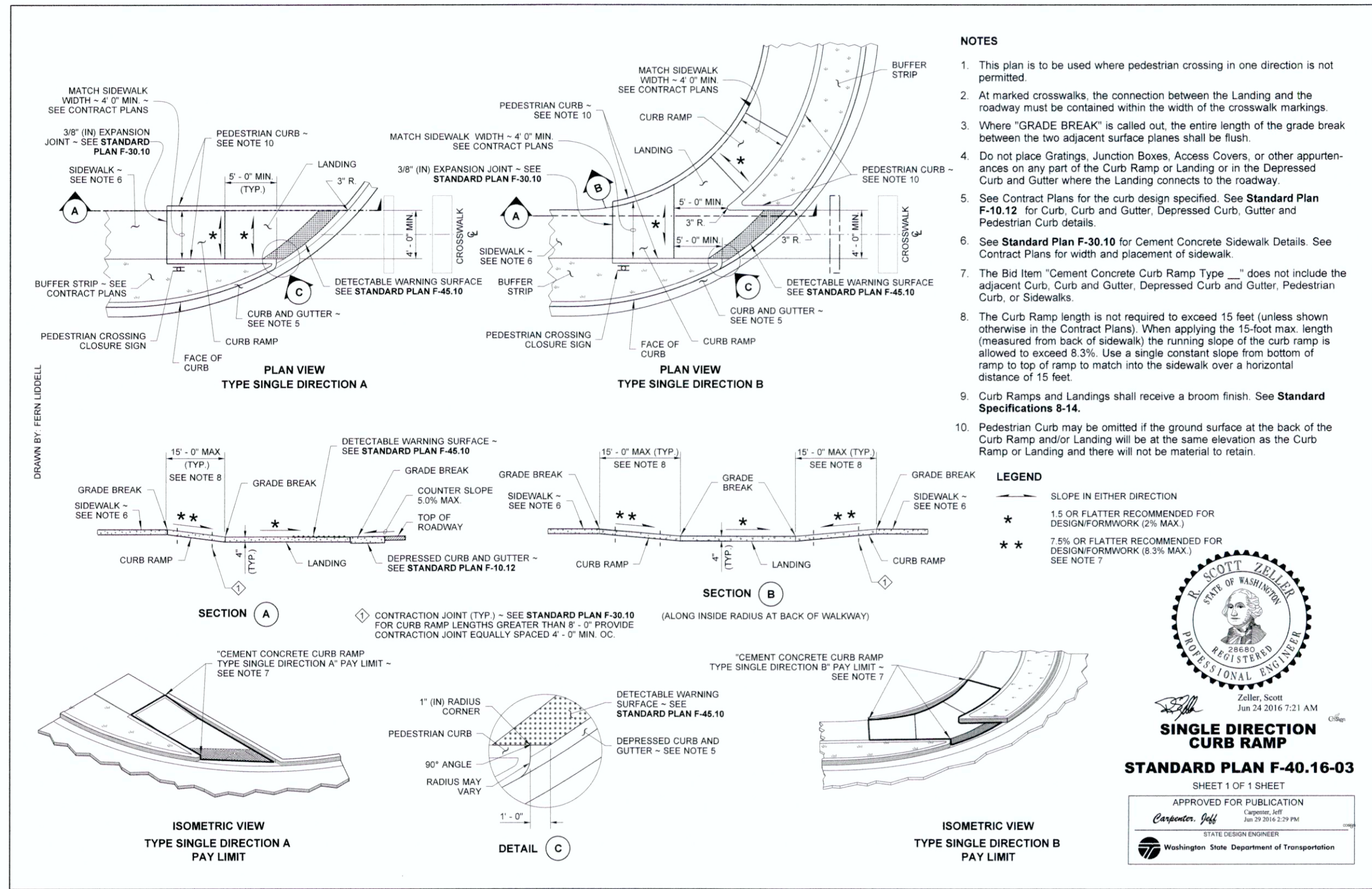
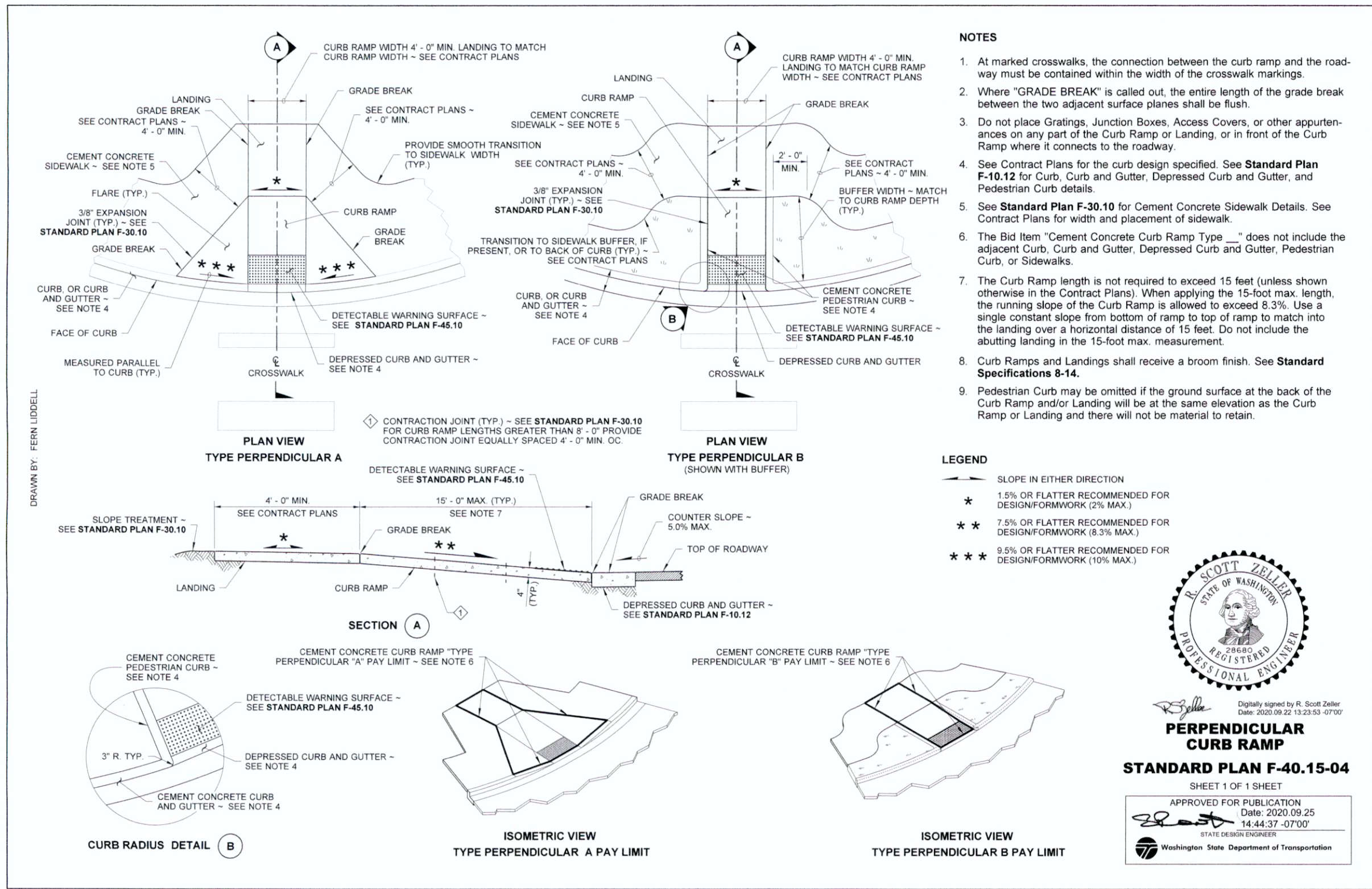
SPRING LINE OF PIPE

2ND BEDDING LIFT (HAUNCHING)

INITIAL BEDDING LIFT (4" MIN.)

FOUNDATION (MAY NOT BE REQUIRED)

APPROVED: [Signature] City Engineer
CITY OF BELLINGHAM
PIPE BEDDING DETAILS FOR 2' OR LESS OF COVER
DRAWING: DR-539
Date: 11/8/07



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	2		
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Date	No	Revision	By

PROJECT ENGINEER JJB
DESIGNED/DRAWN ELH
INSPECTOR ?

DIRECTOR OF PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
OPERATIONS ENGINEER M.A.O.

CITY OF BELLINGHAM, WASHINGTON
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Job. No. ES-0563
Date 02/2023
Field Bk. FB

WESTSIDE NON MOTORIZED IMPROVEMENTS
WSDOT STANDARD DETAILS

SHEET 43 OF 45

CONTACT PERSON: JESSICA BENNETT, P.E., PROJECT ENGINEER AT 778-7923

