

## **NORTH BEND PARKS COMMISSION MEETING**

**January 22, 2025, 6:30pm**  
**North Bend City Hall, 920 SE Cedar Falls Way, North Bend, WA**

**PLEASE NOTE: This meeting will be held in-person at City Hall.**

A Teams meeting link may be set up, upon request, should a member of the public or Parks Commission wish to attend remotely. Contact Planning Manager Mike McCarty at [planning@northbendwa.gov](mailto:planning@northbendwa.gov) to request a Teams link to attend the meeting remotely.

### **AGENDA:**

1. Call to order, opportunity for public comments
2. Minutes of November 21, 2024 Parks Commission meeting
3. Scoping for Bicycle Mobility Plan – Discussion (Caitlin Hepworth, Associate Planner)
4. Parks Commission review and comment for Bendigo Boulevard Multi-use trail and bridge over South Fork Snoqualmie River

## **Minutes of the North Bend Parks Commission Meeting of Nov. 21, 2024**

Minutes are draft until approved at the following Parks Commission Meeting

The meeting was an in-person meeting at North Bend City Hall and was called to order at 6:33 p.m.

### **Attendance:**

- Parks Commissioners in attendance: Tim Talevich, Kyle Braun, Brian Duncan and Minna Rudd. Absent: Eric Thompson, Ethan Eusebio and Matt Miller.
- Staff in attendance: Planning Manager Mike McCarty

### **Minutes of the October 23, 2024 Parks Commission Meeting**

Commissioner Braun made a motion to approve the minutes without amendments; Commissioner Duncan seconded. The motion passed unanimously.

### **Update on images for downtown garbage and recycling cans**

Commissioner Talevich reported that more local images had been sourced for consideration by the North Bend Downtown Foundation. Once the Foundation members have made their selections, Commissioners Braun and Talevich will work together on formatting the images and sending them to the company involved in the project.

### **Draft 2024 Annual Report of Parks Commission activities and tentative 2025 Parks Commission work program**

A report is given each year to the City Council summarizing the activities, accomplishments and expenditures of the Parks Commission, along with a tentative work program for the next year, to hear feedback and any additional direction from the Council. Commission President Rudd will give the presentation to the Council at its Jan. 7, 2025 meeting. She inquired whether any photos were available for the presentation. All commissioners are invited to attend the presentation. The commission approved the 2024 list of activities without revision.

Regarding the tentative 2025 Parks Commission work program, the following items were suggested to include for further deliberation:

- Coordinating efforts by Si View Metro Parks and the North Bend Economic Development Commission on bike and pathway improvements. Both bodies are taking actions in this area.

- Continuing discussions on a proposed dog park at the Dahlgren park area. Pop-up dog parks should be added to that discussion.
- Considering crosswalk improvements at Meadowbrook and the golf course for safer access to the Snoqualmie Valley Trail.
- Formulating a plan for the rock wall at Torguson Park, which is failing in some areas.

### **Adjournment**

The meeting was adjourned at 7:25 p.m.

*Minutes prepared by Tim Talevich*



To: Parks Commission

Date: January 22, 2025

Subject: Bike Plan- Draft Scope

Parks Commission,

At your January 22 meeting, we would like to discuss scoping with you for the content of the Bicycle Mobility Plan that the City will be preparing together with the Parks Commission and Economic Development Commission this year. Below are some topics for your discussion and consideration.

### **Proposed Bike Plan Goals:**

1. **Compile Existing Efforts:** Bicycle infrastructure, initiatives, and amenities are described throughout a number of documents adopted by the city. Rolling in past coordination efforts into one uniform document creates a guidebook for how North Bend wants to support expanding the existing bike network.
  - a. Compile existing work done on bike improvement planning:
    1. 2024 Comp Plan – Transportation, Economic Development, and Parks and Open Space Elements
    2. Economic Development Action Plan and Economic Strategic Plan
    3. Downtown Master Plan
    4. North Bend Complete Street Corridor Plan
  - b. Determine the uniform vision for expansion of the bike network
  - c. Confirm past and verify current community goals for bike infrastructure investment
2. **Economic Development and Creatives:** A key component of the city's economic plans are reinforcing North Bend's image as a recreational economy.
  - a. Develop partnerships with local businesses
    1. Promote recreational and bicycle-related tourism
    2. Opportunities for events
    3. Promote local businesses
    4. Marketing website advertising cycling tourism in North Bend
    5. Public outreach website promoting cycling as a viable local transportation choice
  - b. Tie in Opportunities with the Creative Economy
    1. Signage
    2. Art along trails
    3. Opportunities to include art in other infrastructure/amenities/features
    4. Photography needs for the plan and website
  - c. Collaborate with bicycle advocacy groups including the Evergreen Mountain Bike Alliance and Cascade Bicycle Club.
    1. Opportunities to educate new users to North Bend
    2. Create materials to support ridership on a public outreach website
  - d. Determine missing amenities and linkages that would support users of the bike network.
    1. Affirm priority of improvement projects and programs
    2. Create signage that supports cyclists
    3. Working with local businesses to add supportive features
  - e. Consider other ways to support cyclists

1. Education opportunities for new users
2. Adopt safety initiatives
3. Consider programs to support cycling long term

3. **Marketing our community:**

- a. Marketing North Bend's Bike System
  1. Website advertising bike path, trail, and mountain bike opportunities
  2. Bike friendly businesses and things to do in North Bend
  3. Inform the community and interested tourists in upcoming events, news, or city discussions on bike infrastructure
  4. Bike path map identify skill appropriate paths in the city
  5. Work to attain state and national recognition as a bike friendly community to encourage tourism and stay informed on emerging trends/topics
- b. Ideas to stand out and generate tourism
  1. Catchy slogan/logo
  2. Considering new trends in design of new or improved facilities
  3. Connection to Sno Valley and the Mountains to Sound Greenway
  4. Preparations for 2026 World Cup

### **Proposed Scope – Common Components of a Bike Plan**

The following scope is a rough outline of what most bike plans include and opportunities to make the plan specific to North Bend's goals for the project:

1. Introduction
2. Existing Conditions Analysis
3. Engagement
4. Needs Assessment
5. Design Guidance
6. Economic Development and Marketing
7. Goals, Objectives, and Policies
8. Combined Capital Improvement Plan for Bike
9. Phasing, Implementation, and Funding
10. Appendices
  1. Definitions
  2. Works Cited
  3. Engagement Results and Summary
  4. LOS and Need Assessment Data

### **Timeline and Next Steps**

1. **Timeline**
  - a. The project is currently in the scoping and kickoff phase. Below is a rough, tentative schedule:
    - i. A schedule and complete outline for the plan will be developed before the end of March 2025.
    - ii. A plan is estimated to be drafted by September 2025.
    - iii. A plan is estimated to be adopted by December 2025.
2. **Immediate Next Steps**

- a. Staff is seeking immediate feedback from both the Parks Commission and the Economic Development Commission on draft scope and initial thoughts on components to include in a bike plan
- b. Staff will begin putting a formal outline together of the bike plan and develop a rough schedule.
- c. Staff will attend the next Parks Commission and Economic Development Commission meetings to host a brief presentation on the project and conduct a visioning exercise.
- d. After visioning, staff will begin working to formally kickoff work on the plan:
  - i. Begin a project webpage on the city's website
  - ii. Draft a public engagement approach
  - iii. Identify and begin early communication with key interest groups in North Bend and the Sno Valley region
- e. Monthly updates will be provided to the Parks Commission at regular meetings

# CITY OF NORTH BEND

KING COUNTY

WASHINGTON

## SR 202 SHARED-USE TRAIL EXTENSION

FEDERAL AID PROJECT NO.: STBGUS-0202(065)



CITY OF NORTH BEND PERMIT #	
THESE PLANS ARE APPROVED FOR CONFORMANCE WITH THE CITY OF NORTH BEND PUBLIC WORKS DEPARTMENT REQUIREMENTS TO THE BEST OF MY KNOWLEDGE.	
CITY ENGINEER OR PUBLIC WORKS DIRECTOR	DATE

**G&O PROJECT NUMBER**  
**24421.00**

### CITY OFFICIALS

**MARY MILLER**

MAYOR

**CHRISTINA RUSTIK**

**ALAN GOTHELF**

**HEATHER KOELLEN**

CITY COUNCIL

**ERROL TREMOLADA**

**BRENDEN ELWOOD**

**MARK JOSELYN**

**SUZAN TORGUSON**

CITY COUNCIL

**MARK RIGOS, P.E.**  
PUBLIC WORKS DIRECTOR

**DAVE MILLER**  
CITY ADMINISTRATOR

**DONALD DEBERG, P.E.**  
CITY ENGINEER

**DECEMBER 2024**

ABBREVIATIONS		
AC	ASBESTOS CEMENT PIPE	
ADJ	ADJUST	
ALT	ALTERNATE	
ALUM	ALUMINUM	
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	
AP	ANGLE POINT	
ASPH	ASPHALT	
ASSY	ASSEMBLY	
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	
AVE	AVENUE	
BF	BLIND FLANGE	
BLDG	BUILDING	
BLK	BLOCK	
BO	BLOW OFF	
BOP	BEGINNING OF PROJECT	
BVCE	BEGIN VERTICAL CURVE ELEVATION	
BVCS	BEGIN VERTICAL CURVE STATION	
C	CONDUIT	
CAP	CORRUGATED ALUMINUM PIPE	
CB	CATCH BASIN	
CF	CUBIC FEET	
CFS	CUBIC FEET PER SECOND	
CICL	CAST IRON CLASS	
CLR	CLEARANCE	
CMP	CORRUGATED METAL PIPE	
CO	CLEANOUT	
CONC	CONCRETE	
CONN	CONNECTION	
CONT	CONTINUED/CONTINUOUS	
CPEP	CORRUGATED POLYETHYLENE PIPE	
CPLG	COUPLING	
CTR	CENTER	
CY	CUBIC YARD	
CL	CENTER LINE	
D	DRAIN	
DC	DEGREE OF CURVATURE	
DI	DUCTILE IRON	
DIA	DIAMETER	
DIM	DIMENSION	
DOT	DEPARTMENT OF TRANSPORTATION	
DWGS	DRAWING(S)	
E	EAST	
EA	EACH	
EL	ELEVATION	
ELEC	ELECTRICAL	
EOA	EDGE OF ASPHALT	
EOP	END OF PROJECT	
EVCE	END VERTICAL CURVE ELEVATION	
EVCS	END VERTICAL CURVE STATION	
EXIST	EXISTING	
FIG	FIGURE	
FIN	FINISHED	
FL	FLANGE	
FT	FEET	
GA	GAUGE	
GALV	GALVANIZED	
GI	GALVANIZED IRON	
GV	GATE VALVE	
HDPE	HIGH DENSITY POLYETHYLENE PIPE	
ID	INSIDE DIAMETER	
IE	INVERT ELEVATION	
IN	INCH	
INV	INVERT	
L	LENGTH	
LB	POUND	
LF	LINEAR FEET	
MAX	MAXIMUM	
MFR	MANUFACTURER	
MH	MANHOLE	
MIN	MINIMUM	
MISC	MISCELLANEOUS	
MJ	MECHANICAL JOINT	
N	NORTH	
NO	NUMBER	
NTS	NOT TO SCALE	
OC	ON CENTER	
OD	OUTSIDE DIAMETER	
PC	POINT OF CURVATURE	
PE	PLAIN END	
PERF	PERFORATED	
PI	POINT OF INTERSECTION	
PP	POWER POLE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
PVI	POINT OF VERTICAL INTERSECTION	
PVMT	PAVEMENT	
PVT	POINT OF VERTICAL TANGENT	
QTY	QUANTITY	
R	RADIUS	
RW	RIGHT-OF-WAY	
RED	REDUCER	
REINF	REINFORCE	
REQD	REQUIRED	
RET	RETAINING	
RR	RAILROAD	
S	SOUTH	
SCH	SCHEDULE	
SF	SQUARE FEET	
SHT	SHEET	
SL	SLOPE	
SPECS	SPECIFICATIONS	
SQ	SQUARE	
STA	STATION	
STD	STANDARD	
TB	THRUST BLOCK	
TC	TOP OF CURB	
TEL	TELEPHONE	
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL	
THRD	THREADED	
THRU	THROUGH	
TYP	TYPICAL	
VERT	VERTICAL	
W	WEST	
W/	WITH	
W/O	WITHOUT	
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION	

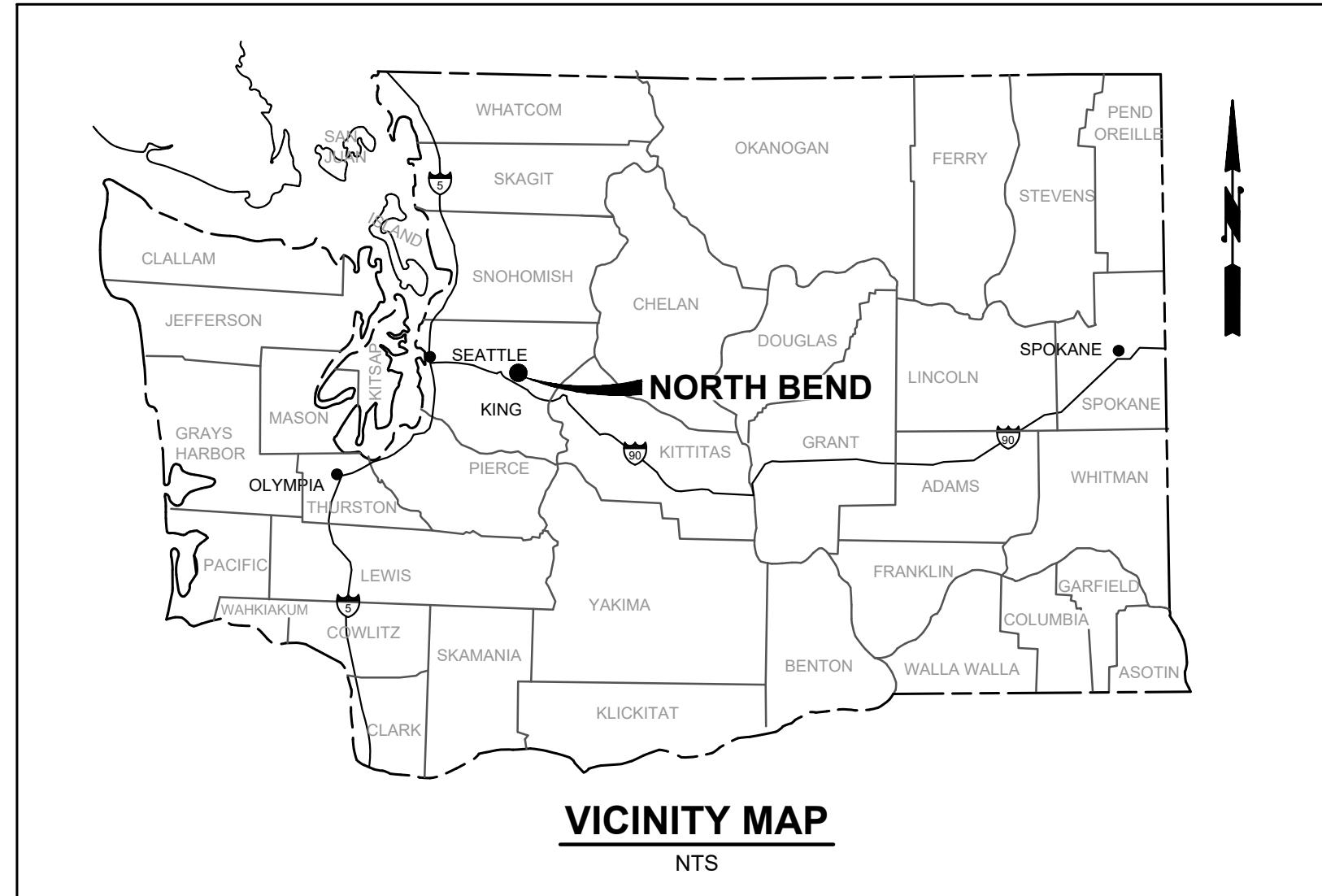
LINETYPES		
EXISTING	PROPOSED	DESCRIPTION
SURFACE FEATURES		
		CURB (TYPE AS NOTED)
		CURB & GUTTER
		ASPHALT PAVEMENT
		GRAVEL SURFACING
		CONCRETE SURFACING
		CEMENT CONC. SIDEWALK
		GUARD RAIL
		FENCE/RAILING (TYPE AS NOTED)
		FENCE WITH GATE
		SHRUB/TREE/VEGETATION LINE
		EDGE OF LANDSCAPING
		CLEARING LIMITS
SURVEY		
		RIGHT-OF-WAY LINE
		CENTERLINE OF CONSTRUCTION
		PROPERTY LINE
		CONTOUR LINE
		APPROXIMATE TOP OF CUT
		APPROXIMATE TOE OF FILL
		SAWCUT LINE (APPROXIMATE LOCATION)
UTILITIES		
		OVERHEAD UTILITIES
		BURIED ELECTRICAL
		BURIED TELEPHONE/COMMUNICATIONS
		BURIED COMMUNICATIONS
		BURIED CABLE TELEVISION
		BURIED FIBER-OPTIC LINE
		GAS MAIN (SIZE AS NOTED)
		WATER MAIN (SIZE AS NOTED)
		SANITARY SEWER MAIN (SIZE AS NOTED)
		SANITARY SEWER FORCE MAIN (SIZE AS NOTED)
		STORM DRAIN (SIZE AS NOTED)
		CULVERT (SIZE & TYPE AS NOTED)
		DITCH CENTERLINE/THALWEG

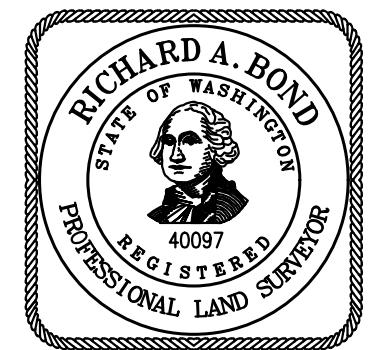
SURFACE FEATURES/LANDSCAPING		
EXISTING	PROPOSED	DESCRIPTION
		BUILDING
		BUS STOP
		MAIL BOX (NOTED)
		SIGN
		TREE STUMP
		RIP RAP
		ROCK WALL
		MODULAR BLOCK WALL
		SHRUB
		TREE (CONIFER)
		TREE (DECIDUOUS)
		WETLAND
		EDGE OF CREEK/STREAM OR OHWM

**GENERAL NOTES:**

- ALL MATERIALS AND WORKMANSHIP SHALL BE FURNISHED AND SUPPLIED IN ACCORDANCE WITH THE 2025 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND CITY OF MEDINA PUBLIC WORKS STANDARDS, AND THESE CONTRACT DOCUMENTS UNLESS OTHERWISE SPECIFICALLY NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT AND COORDINATE WITH ALL UTILITY COMPANIES IN ORDER TO ASSURE THAT ALL LINES, PIPES, POLES AND OTHER APPURTENANCES ARE PROPERLY LOCATED, SECURED, AND/OR PROTECTED. BURIED UTILITIES (WHERE KNOWN) ARE SHOWN IN THEIR APPROXIMATE LOCATION. THE CONTRACTOR SHALL HAVE UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. NOTIFY THE UNDERGROUND UTILITIES LOCATE CENTER: CALL #811.
- THE CONTRACTOR SHALL HAVE A COPY OF THESE PLANS, ANY ADDENDA, CHANGE ORDERS AND THE CONTRACT SPECIFICATIONS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN THE EVENT OR DISCOVERY OF UNSUITABLE SOILS OR HIGH GROUND WATER CONDITIONS OR DISCREPANCIES FROM THE PLANS.
- WHEREVER PLANS REFER TO "SAWCUT" OF ASPHALT CONCRETE PAVEMENT OR OIL MAT, OR CONCRETE SURFACE, THE CONTRACTOR SHALL PERFORM A "NEAT LINE CUT" PER SPECIFICATIONS.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN LEGIBLE SET OF RECORD DRAWINGS AND PROVIDE A SET TO THE OWNER PRIOR TO DEMOBILIZATION OF THE SITE. SEE SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH MUTCD. PRIOR TO DISRUPTION OF ANY TRAFFIC, TRAFFIC CONTROL PLANS SHALL BE PREPARED AND SUBMITTED TO THE CITY FOR APPROVAL. NO WORK SHALL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL IS IN PLACE.

WATER SYMBOLS		
EXISTING	PROPOSED	DESCRIPTION
		THRUST BLOCK
		WATER METER
		FIRE HYDRANT (3-NOZZLE)
		VALVES
		GATE VALVE
SANITARY/STORM SEWER SYMBOLS		
EXISTING	PROPOSED	DESCRIPTION
		STORM DRAIN MANHOLE/TYPE 2 CATCH BASIN (ACTUAL DIMENSION SHOWN FOR PROPOSED)
		STORM DRAIN CATCH BASIN, CONCRETE INLET, OR YARD/AREA DRAIN (ACTUAL DIMENSION SHOWN FOR PROPOSED)
		SANITARY SEWER MANHOLE (ACTUAL DIMENSION SHOWN FOR PROPOSED)
		CLEAN OUT (SAN. SEWER OR STORM)
ILLUMINATION SYMBOLS		
EXISTING	PROPOSED	DESCRIPTION
		JUNCTION BOX (TYPE I, II, VIII)
		ELECTRIC SERVICE AND CABINET
		LIGHT/LUMINAIRE POLE W/ARM
		POLE MOUNTED LIGHT
GAS/POWER/TELEPHONE SYMBOLS		
EXISTING	PROPOSED	DESCRIPTION
		GAS METER
		GAS VALVE
		PAD MOUNT TRANSFORMER
		POWER VAULT (SIZE VARIES)
		TRANSMISSION TOWER
		UTILITY POLE
		UTILITY POLE ANCHOR
		UTILITY PEDESTAL
		TELEPHONE VAULT (SIZE VARIES)
		FIBER OPTIC MANHOLE
SURVEY SYMBOLS		
EXISTING	PROPOSED	DESCRIPTION
		CONTROL POINT
		MONUMENT (IN CASE)
		MONUMENT (SURFACE)
		BENCH MARK
		BOUNDARY/PROPERTY CORNER
		IRON PIPE
		SOIL BORING/TEST PIT

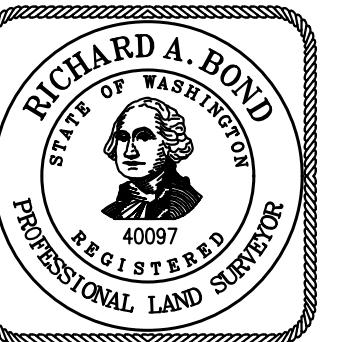




**CITY OF  
NORTH BEND**  
**SR 202 SHARED-USE  
TRAIL EXTENSION**

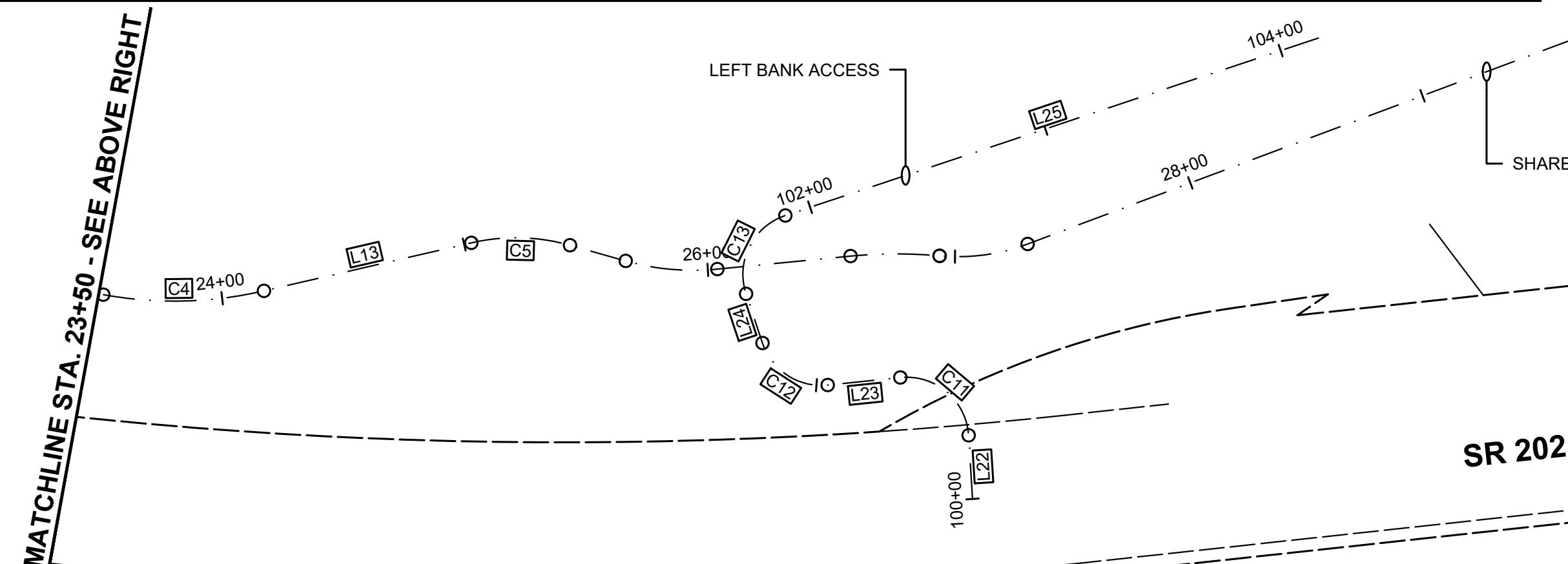
SURVEY CONTROL & MONUMENTATION				
HORIZONTAL DATUM:		NAD83/91 WASHINGTON PLANE COORDINATE SYSTEM, NORTH ZONE, GRID NORTH USED COORDINATES FROM PROVIDED SURVEY BY BEYLER CONSULTING.		
VERTICAL DATUM:		NAVD88 HOLDING PUBLISHED ELEV FOR PROJECT BENCHMARK #1 (WGS POINT #P1) (G&O #100=441.20')		
SR 202 SHARED USE TRAIL EXTENSION				
POINT	NORTHING	EASTING	ELEV	DESCRIPTION
7	183759.93	1400859.32	434.54	SSRC=SET 5/8" REBAR W/ RED PLASTIC "G&O CONTROL" CAP, N SIDE OF 8TH ST W OF NINTENDO ENTRANCE. 40' ESE OF LARGE COTTONWOOD. 45' E OF LARGE ABANDONED TIRE?
8	183747.48	1401110.43	436.95	SFMC=FOUND MONUMENT IN CASE, SPIKE SET IN 2" SQUARE CONC. DOWN 0.55' IN CASE.
10	184606.66	1400890.42	435.89	SSNT=SET MAG NAIL W/ "G&O CONTROL" CAP, N EDGE OF ALM WAY. 12.5' PERPENDICULAR FROM POWER POLE #218476 176050.
11	185771.53	1401178.06	433.68	SSRC, S SIDE OF 14TH ST IN FRONT OF 1305 14TH ST. 35' SE OF MAILBOX. 25' ENE OF T POST W/ GRAPE VINES.
12	185766.71	1401470.46	434.47	SSRC, S SIDE OF 14TH ST IN FRONT OF 1225 14TH ST. 20' N OF A RHODODENDRON.
13	186410.00	1402310.09	433.45	SFMC, 3 1/2" BRASS DISC W/ PUNCH SET IN 4" SQUARE CONC POST. CENTER OF BOALCH AVE, NE CORNER OF SIRIUS SPORTS COMPLEX.
15	186628.15	1401301.96	432.67	SSNT, SW QUADRANT INTX BOALCH AVE & ENTRANCE TO "NORTH BEND ANIMAL CLINIC." 1.5' N OF SOUTHERLY EDGE OF ASPHALT. 8' W OF GATE VALVE. 22' E OF SE CORNER OF CROSSWALK.
16	186914.23	1401074.74	432.64	SSNT, NE SIDE OF SR 202, NORTH OF SPORTS COMPLEX.
100	183453.08	1404653.90	441.20	SFMC=FOUND SURFACE MONUMENT, 2" BRASS DISC ON SE COR BRIDGE. "KC-P-1 1995"
101	183440.29	1404789.62	438.69	SSRC, 12' N10" W OF POWER SERVICE POLE. 9' N54" W OF GUY ANCHOR. ~23' N31" E OF NLY EDGE ASPHALT.
104	183224.68	1404995.37	439.87	SSNT, CENTERLINE SYDNEY AVE N. ~1' N OF SW EDGE ASPHALT OF BENDIGO BLVD. IN SLY CORNER OF PATCH AROUND DRAIN MANHOLE. 3' SW OF CENTER OF LID. 7.7' NE OF NWLY CORNER STOP BAR.
113	183461.12	1404704.64	440.56	SSNT, 0.5' S OF N EDGE ASPHALT BENDIGO BLVD. 10.5' N60" W OF E END GUARDRAIL. ~18' S5" W OF POWER GUY ANCHOR. ~S84" E OF G&O #100.
116	183602.84	1404411.61	447.91	SSC=SCRIBED "X" ON SW SIDE OF BRIDGE W OF WWTP. S SIDE BENDIGO BLVD N.
118	184106.76	1403803.39	440.62	SSNT, NE EDGE OF ASPHALT OF BENDIGO BLVD AT START APPROXIMATE START OF GUARDRAIL.
119	183766.46	1404137.67	439.40	SSNT, SW EDGE OF ASPHALT OF BENDIGO BLVD AT INTX W/ NW 8TH ST.
120	183738.79	1403433.13	433.61	SSNT, S EDGE OF ASPHALT OF NW 8TH ST. 115' E OF POWER POLE ON S SIDE OF ROAD. E OF BRIDGE.
121	183734.27	1403010.24	437.48	SSNT, S EDGE OF ASPHALT OF NW 8TH ST. AT APPROXIMATE W END OF GUARDRAIL.
123	183754.99	1402230.95	443.33	SSNT, N EDGE OF ASPHALT OF NW 8TH ST AT EAST SIDE OF RAILROAD CROSSING. 25' E OF RAILROAD CROSSING SIGN.
124	183756.49	1401877.78	440.08	SSNT, N EDGE OF ASPHALT OF NW 8TH ST W OF INTX W/ SE 106TH PL. ACROSS FROM A POWER VAULT.
125	183719.84	1401499.62	439.07	SSNT, E SIDE OF ENTRANCE TO NINTENDO SITE ON NW 8TH ST. 1' N OF FACE OF CURB.
126	183741.10	1402473.41	443.23	SFNT=FOUND NAIL W/ TAG, NAIL W/ "LS 28101" TAG.
127	183704.36	1402502.47	442.70	SFM, 3" ALUMINUM DISC W/ PUNCH. "BONNEVILLE POWER ADMIN TANNER 01995."
128	183873.20	1401914.46	437.99	SSNT, ON NE EDGE OF ALM WAY. APPROXIMATELY 150' NW OF INTX W/ 8TH AVE.
129	184080.73	1401624.51	436.95	SSNT, ON NE EDGE OF ALM WAY. APPROXIMATELY 500' NW OF INTX W/ NW 8TH ST.
130	183747.40	1401997.86	440.95	SFMC, 1 1/2" BRASS DISC W/ PUNCH. DOWN 0.55' IN CASE. INTX NW 8TH ST & ALM WAY.
131	184339.16	1401264.12	436.12	SSNT, NE EDGE OF ASPHALT OF SE 106TH PL.
132	184299.71	1403616.59	440.88	SSNT, NE SIDE SR 202 JUST NW OF BRIDGE OVER RIBERY CREEK AT PEDESTRIAN CROSSING ENTRANCE.
133	184505.63	1403421.06	439.14	SSRC, NE SIDE SR 202. 1' FROM EDGE OF ASPHALT. ACROSS FROM DRIVEWAY TO 901?
134	184729.72	1403202.13	437.81	SSRC, AT GRADE. NE SIDE SR 202 (BENDIGO BLVD), SE OF BOALCH AVE NW. 2.4' NE OF NE EDGE OF ASPHALT OF BENDIGO. 9.6' SW OF SW FACE OF POWER POLE. TWO PHONE POLES SOUTH OF INTX W/ BOALCH AVE.
135	184577.10	1403301.15	437.65	SFMC, 3 1/4" ALUMINUM DISC W/ PUNCH, "WSDOT 2018 GP17202-360." DOWN 0.7' IN CASE.
136	184935.95	1403012.56	436.68	SSNT, N QUADRANT INTX SR 202 & BOALCH AVE NW.
137	185052.90	1403124.42	437.02	SSNT, NE SIDE BOALCH AVE NW. N OF SR 202. NEAR APPROX END CURVE OF ASPHALT AND DRIVEWAY FOR 1202 BOALCH AVE.
138	185382.85	1402898.70	433.80	SSNT, SW SIDE BOALCH AVE NW. NW SIDE OF ENTRANCE FOR 1355 BOALCH AVE NW.
139	185289.46	1402658.71	435.26	SSNT, NE SIDE SR 202 IN ASPHALT OVERPOUR BETWEEN DRIVEWAYS FOR "FRED'S SLEDS" ON SR 202. DESCRIPTION OUT OF DATE.
140	185076.21	1402815.86	435.55	SFMC, 3 1/4" ALUMINUM DISC W/ PUNCH, "WSDOT 2018 GP17202-359." DOWN 0.55' IN CASE.
141	185528.45	1402423.35	434.05	SSRC, NE SIDE SR 202 ACROSS FROM DRIVEWAY FOR 1309 BENDIGO BLVD.
142	185781.25	1402123.06	433.65	SSNT, NW QUADRANT INTX NW 14TH ST & SR 202.
143	185761.41	1402708.72	434.92	SSNT, E QUADRANT INTX OF NW 14TH ST & BOALCH AVE NW. S FLOWLINE FOR DRIVEWAY OF "DEVON SELF STORAGE."
144	186069.81	1402493.14	433.55	SSNT, SW SIDE SR 202. NW OF DRIVEWAY FOR ENCOMPASS LEARNING CENTER.
145	185750.48	1402414.40	434.72	SSNT, S SIDE NW 14TH ST ACROSS FROM W PARKING ROW.
146	185791.57	1402709.43	435.35	SFNT, NAIL W/ "TYEE LS 29276" TAG. DRIVEWAY FOR DEVON SELF STORAGE.
147	185731.83	1402685.82	433.50	SFR=FOUND REBAR, 1/2" REBAR, SHOT AT BEND, 1.1' DOWN. S QUADRANT INTX NW 14TH ST & BOALCH AVE NW.
148	186307.55	1402353.38	433.27	SSNT, SW SIDE BOALCH AVE NW IN BIKE LANE SE OF ENTRANCE TO SIRIUS SPORTS COMPLEX.
149	186092.68	1401911.59	434.30	SSRC, NE SIDE SR 202. NW OF INTX W/ NW 14TH ST. NEAR SW CORNER OF FENCE FOR BASEBALL DIAMOND.
150	186347.18	1401577.45	433.15	SSNT, SW SIDE OF SR 202 AT SE EDGE OF DRIVEWAY FOR "PACIFIC CREST ENVIRONMENTAL."
151	186416.81	1401272.21	430.29	SFM, 3 1/2" CONC MON W/ PIN. W 1/4 CORNER SECTION 4.
152	186003.77	1402549.67	434.19	SFMC, 1" REBAR OR IRON BAR, SOLID, LEANING TO SW. SHOT WHERE IT ENTERS GROUND.
153	186657.88	1402164.17	431.35	SFMC, 3 1/4" BRASS DISC W/ PUNCH, SET IN 4" SQUARE CONC POST. DOWN 0.25' IN CASE.
154	186836.17	1402100.08	431.86	SFMC, 3 1/4" BRASS DISC W/ PUNCH, SET IN 4" SQUARE CONC POST. DOWN 0.45' IN CASE.
155	186912.65	1402087.86	432.29	SFMC, 3 1/4" BRASS DISC W/ PUNCH, SET IN 4" SQUARE CONC POST. DOWN 0.35' IN CASE.
156	185734.82	1402483.31	432.65	SFRC=FOUND REBAR W/ CAP, 3/8" REBAR W/ DAMAGED ILLEGIBLE CAP.
158	185758.64	1401864.91	434.74	SSN=SET NAIL, 60-D NAIL W/ PINK WHISKERS. 18' W OF MAILBOX TO #1108.
159	185769.39	1402136.54	433.83	SFNT, NAIL W/ "DEI 28191" TAG.
160	185788.24	1401664.16	434.24	SSN, 60-D NAIL W/ PINK WHISKERS. 15' E OF MAILBOX TO #1148.
161	185811.00	1401235.88	433.58	SFP=FOUND PIPE, 1" INSIDE DIAMETER IRON PIPE AT GRADE.
162	183747.46	1401338.52	439.19	SFRC, 1/2" REBAR W/ "24???" CAP.
163	185807.81	1401525.25	434.09	SFRC, 5/8" REBAR W/ ORANGE PLASTIC "KAP 49286" CAP. AT GRADE.

POINT	NORTHING	EASTING	ELEV	DESCRIPTION
SR 202 SHARED USE TRAIL EXTENSION CONT.				
164	185808.57	1401435.82	434.56	SFRC, 5/8" REBAR W/ ORANGE PLASTIC "KAP 49286" CAP.
165	183747.33	1403787.37	434.36	SFMC, FOUND SPIKE W/ PUNCH, DOWN 1.05' IN CASE.
166	185774.82	1401713.72	434.67	SFS=FOUND SPIKE, RAILROAD SPIKE W/ PUNCH ON S EDGE. CENTERLINE NW 14TH ST, AT W PROPERTY LINE OF 1135 EXTENDED TO N.
167	186754.56	1402100.49	431.81	SSN, 60-D NAIL W/ BLUE WHISKERS. DOWN 0.3' IN PLANTER STRIP S OF S CURB LINE OF BOALCH AVE. 2' S OF BACK OF CURB. 5' N OF CENTER OF SPRINKLER BOX BEHIND HOME PLATE. SW-NE NORTHERLY CONCRETE FACE OF WALL EXTENDED NORTHEASTERLY.
168	183769.93	1403013.21	438.12	SSRC, 11' NE OF NW END OF EASTERLY GUARDRAIL FROM E EDGE. W SIDE OF BRIDGE. SET IN FREEZING GROUND, LOOSE WHEN GROUND THAWED IN JAN 2024.
169	184721.25	1403082.41	433.74	SSN, 60-D NAIL W/ WHITE WHISKERS. DOWN 0.2' IN GRASS. 5' NE OF BARBIRE FENCE AT 3RD T-BAR S OF SOUTHERLY (OF 3) WOOD POST IN FENCE LINE. 33' NW OF NW END OF BENCH.
170	183691.27	1404383.38	438.96	SSN, 60-D NAIL W/ WHITE WHISKERS AT GRADE AT DIKE ACCESS ROAD. NW QUADRANT OF "T" INTERSECTION.
1008	183365.37	1404879.43	439.67	SFRC, 1/2" REBAR W/ DESTROYED RED PLASTIC CAP.
6536	185218.43	1402988.69	436.33	SFRC, 1/2" REBAR W/ ILLEGIBLE YELLOW PLASTIC CAP.
6537	185216.70	1402987.73	436.23	SFRC, 5/8" REBAR W/ YELLOW PLASTIC "DRS 35974" CAP.
6538	185216.64	1402985.55		



**CITY OF  
NORTH BEND**  
**SR 202 SHARED-USE  
TRAIL EXTENSION**

LEFT BANK ACCESS - CONSTRUCTION CENTERLINE ALIGNMENT												
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	END STATION	END NORTHING	END EASTING	DISTANCE	BEARING	RADIUS	TANGENT	CURVE LENGTH	DELTA
L22	100+00.00	183,741.44	1,404,211.89	100+25.70	183,762.86	1,404,226.09	25.70	N33°33'23"E				
C11	100+25.70	183,762.86	1,404,226.09	100+66.00	183,798.06	1,404,218.21			25.00	26.05	40.30	92°21'50"
L23	100+66.00	183,798.06	1,404,218.21	100+95.48	183,813.33	1,404,193.00	29.47	N58°48'27"W				
C12	100+95.48	183,813.33	1,404,193.00	101+29.28	183,842.72	1,404,182.26			25.00	20.06	33.81	77°28'52"
L24	101+29.28	183,842.72	1,404,182.26	101+50.18	183,862.51	1,404,188.95	20.89	N18°40'24"E				
C13	101+50.18	183,862.51	1,404,188.95	101+89.45	183,878.19	1,404,220.64			25.00	25.00	39.27	90°00'00"
L25	101+89.45	183,878.19	1,404,220.64	104+16.03	183,805.65	1,404,435.29	226.58	S71°19'36"E				



SHARED USE TRAIL - CONSTRUCTION CENTERLINE ALIGNMENT												
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	END STATION	END NORTHING	END EASTING	DISTANCE	BEARING	RADIUS	TANGENT	CURVE LENGTH	DELTA
C4	23+51.84	184,018.63	1,403,982.02	24+17.12	183,980.76	1,404,034.63			160.00	33.10	65.28	23°22'34"
L13	24+17.12	183,980.76	1,404,034.63	25+02.93	183,945.79	1,404,112.99	85.81	S65°56'40"E				
C5	25+02.93	183,945.79	1,404,112.99	25+43.19	183,921.00	1,404,144.18			80.00	20.57	40.26	28°50'07"
L17	30+79.30	183,700.28	1,404,616.63	31+71.93	183,608.67	1,404,602.92	92.63	S8°30'41"W				
C8	31+71.93	183,608.67	1,404,602.92	32+66.30	183,528.20	1,404,640.93			80.00	53.54	94.37	67°35'09"
L18	32+66.30	183,528.20	1,404,640.93	33+25.39	183,497.83	1,404,691.62	59.10	S59°04'28"E				
C9	33+25.39	183,497.83	1,404,691.62	33+33.92	183,493.44	1,404,698.94			2,902.99	4.27	8.53	0°10'06"

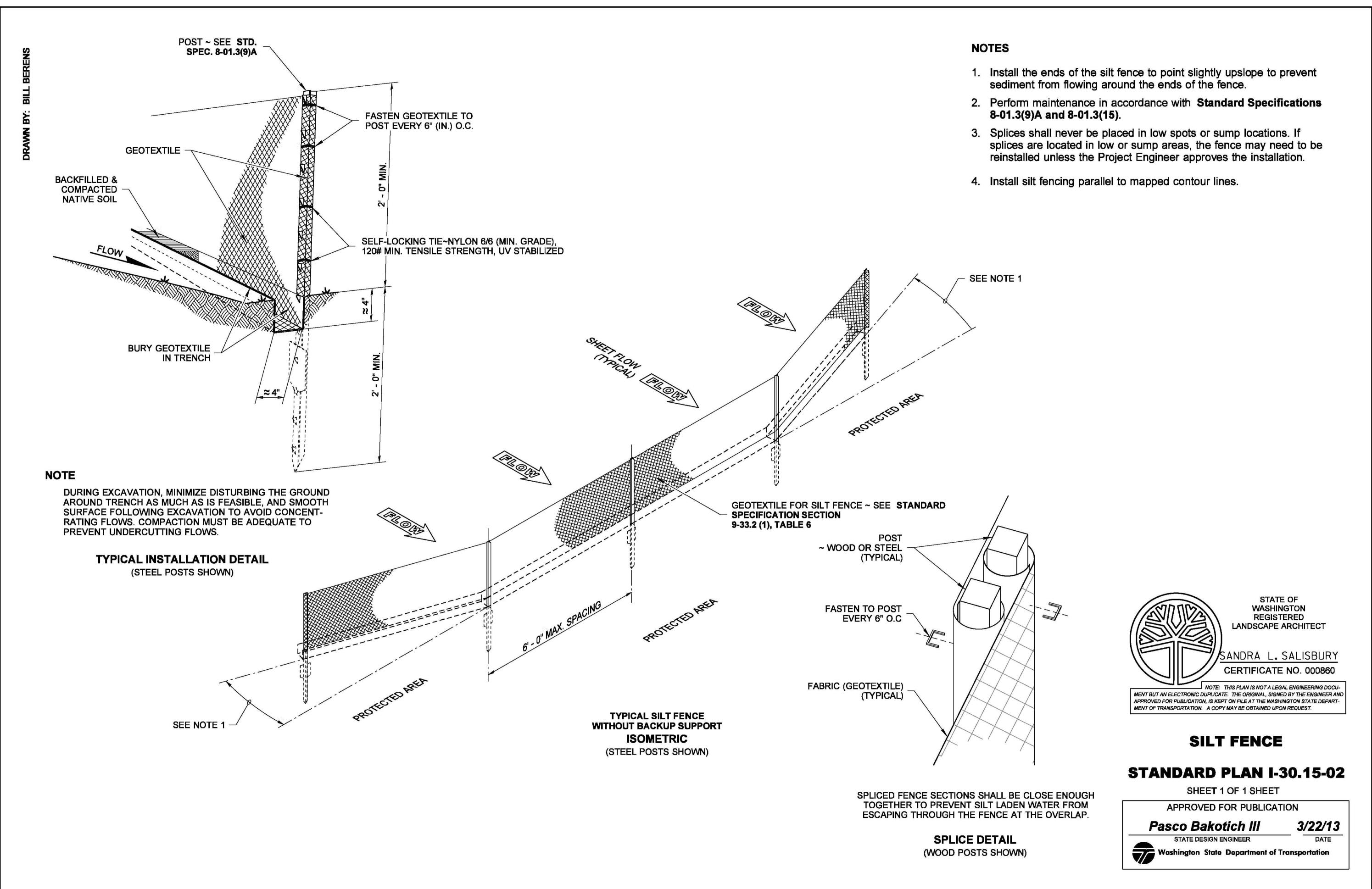
SR 202 - CONSTRUCTION CENTERLINE ALIGNMENT												
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	END STATION	END NORTHING	END EASTING	DISTANCE	BEARING	RADIUS	TANGENT	CURVE LENGTH	DELTA
L20	300+00.00	183,471.17	1,404,662.18	300+11.56	183,465.23	1,404,672.10	11.56	S59°04'28"E				
C10	300+11.56	183,465.23	1,404,672.10	302+49.09	183,334.86	1,404,870.57					2,865.00	118.84
L21	302+49.09	183,334.86	1,404,870.57	305+38.47	183,166.09	1,405,105.64	289.38	S54°19'27"E				237.53
												4°45'01"

**RIGHT-OF-WAY DISCLAIMER**  
The right-of-way and/or property lines shown hereon are based on available information, not on a surveyed location and are only approximate.

**ALIGNMENT TABLES**  
SHEET: **G-3** OF: **46**



**CITY OF  
NORTH BEND**  
SR 202 SHARED-USE  
TRAIL EXTENSION



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FILE:	TESC NOTES & DETAILS.DWG	
0	1"	2"
TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		

**TEMPORARY EROSION  
CONTROL NOTES &  
DETAILS**

CITY OF NORTH BEND  
PARCEL ID: 04230890

**BOALCH AVENUE NW**

**SR 202 (BENDIGO BOULEVARD N)**

**PROTECT POST**

**IE NOT FOUND**

**IE=430.89 12" CONC.**

**STAGING AREA**  
CONTRACTOR MAY USE  
THIS AREA FOR STAGING.  
ACCESS SHALL BE FROM  
BOALCH AVENUE NW.  
CONSTRUCT STABILIZED  
CONSTRUCTION ENTRANCE,  
AS NEEDED.

**CITY OF NORTH BEND  
PARCEL ID: 0423089037**

**CITY OF NORTH BEND  
PARCEL ID: 0423089034**

**MATCHLINE, STA 14+00 - SEE SHEET C-2**

## **CONSTRUCTION NOTES**

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**FINISHED GRADE @ E.O.C.**

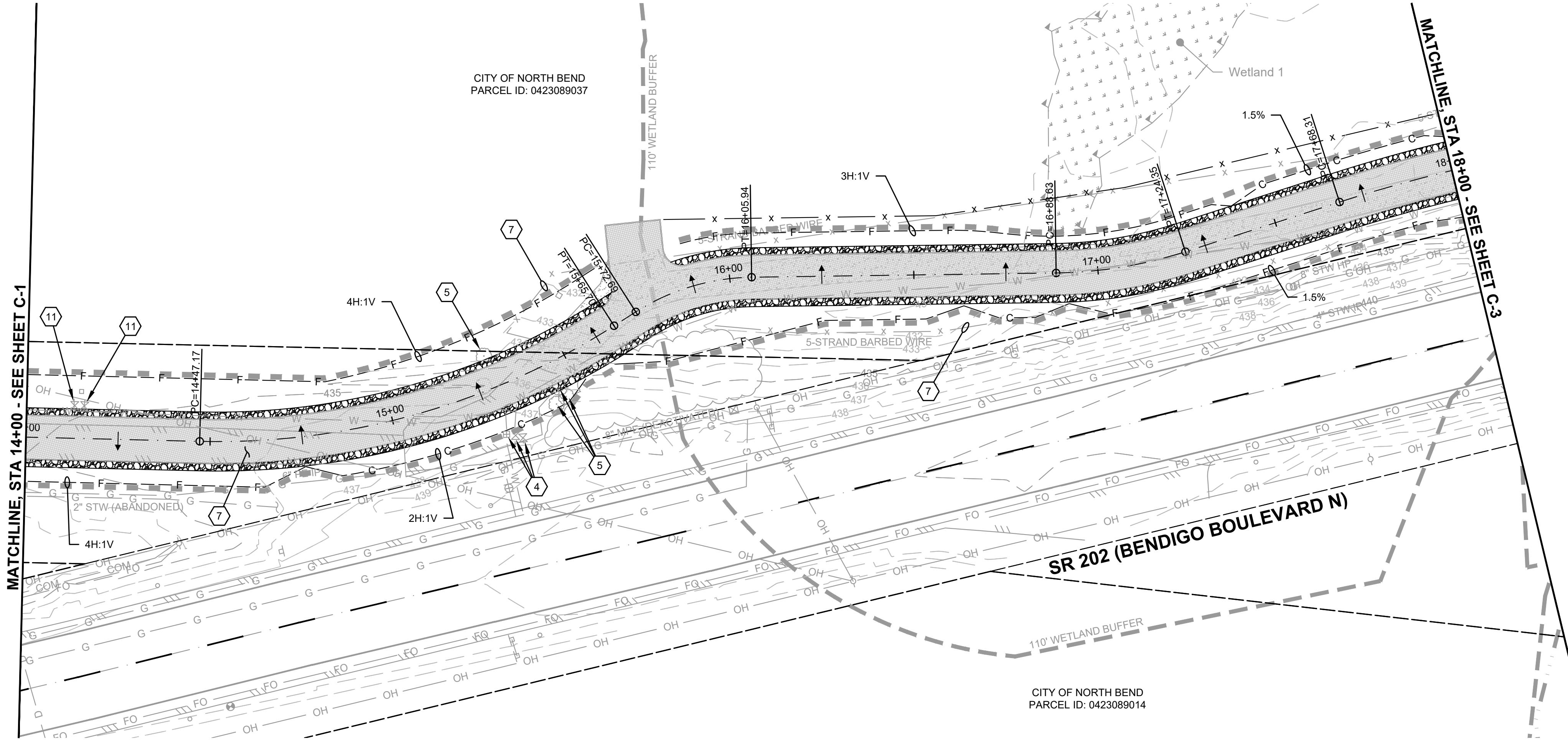
**EXISTING GRADE @ E.O.C.**

**12" CONC**

**SEE SHEET C-2**

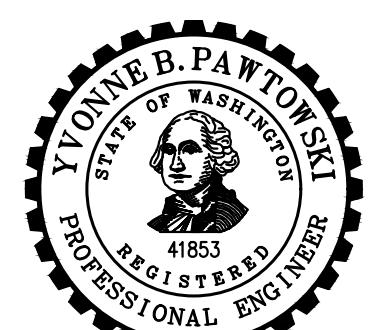
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TWO INCHES AT FULL SCALE.		
IF NOT, SCALE ACCORDINGLY		

## PLAN & PROFILE

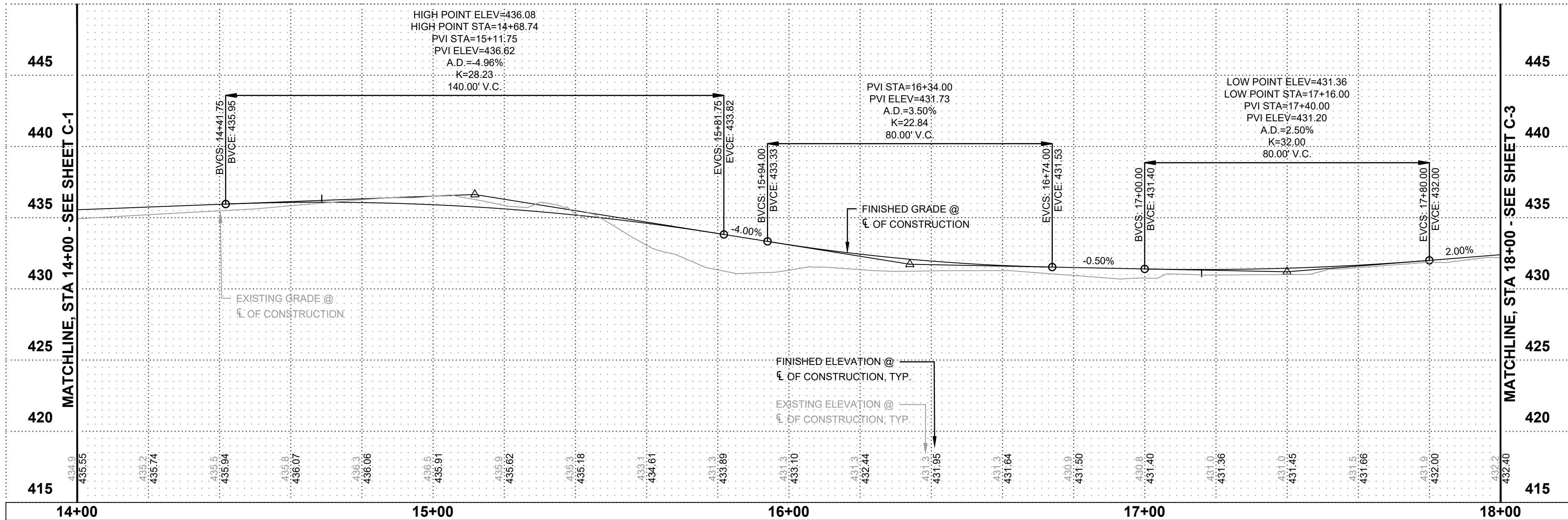


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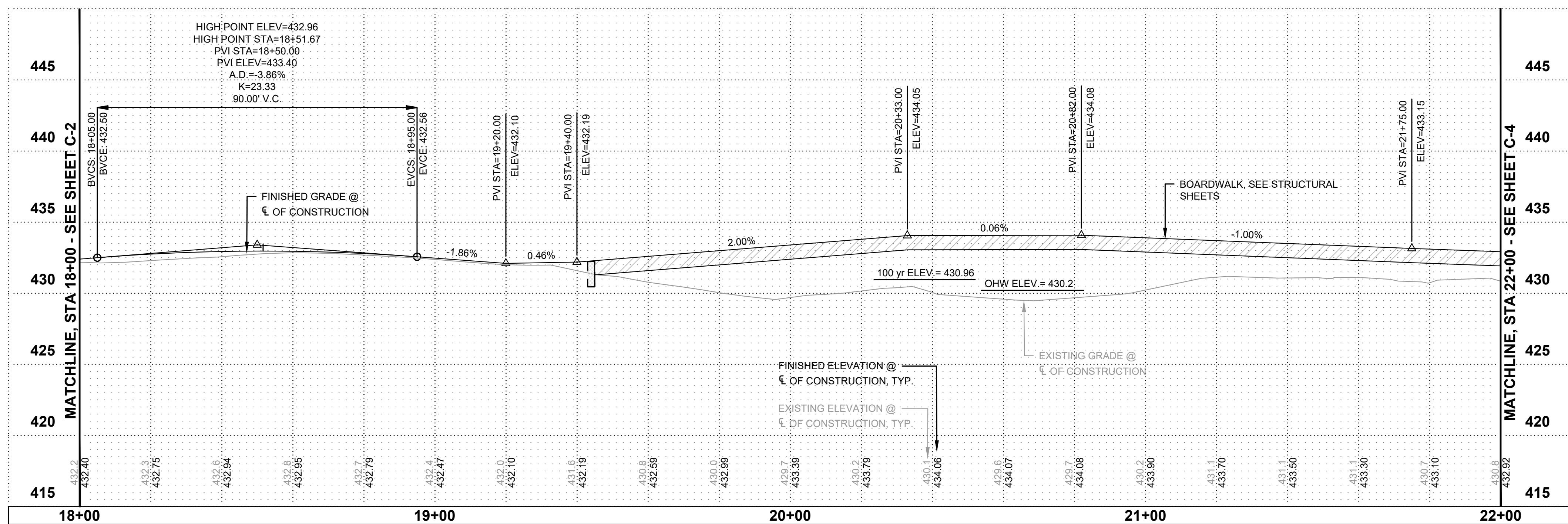
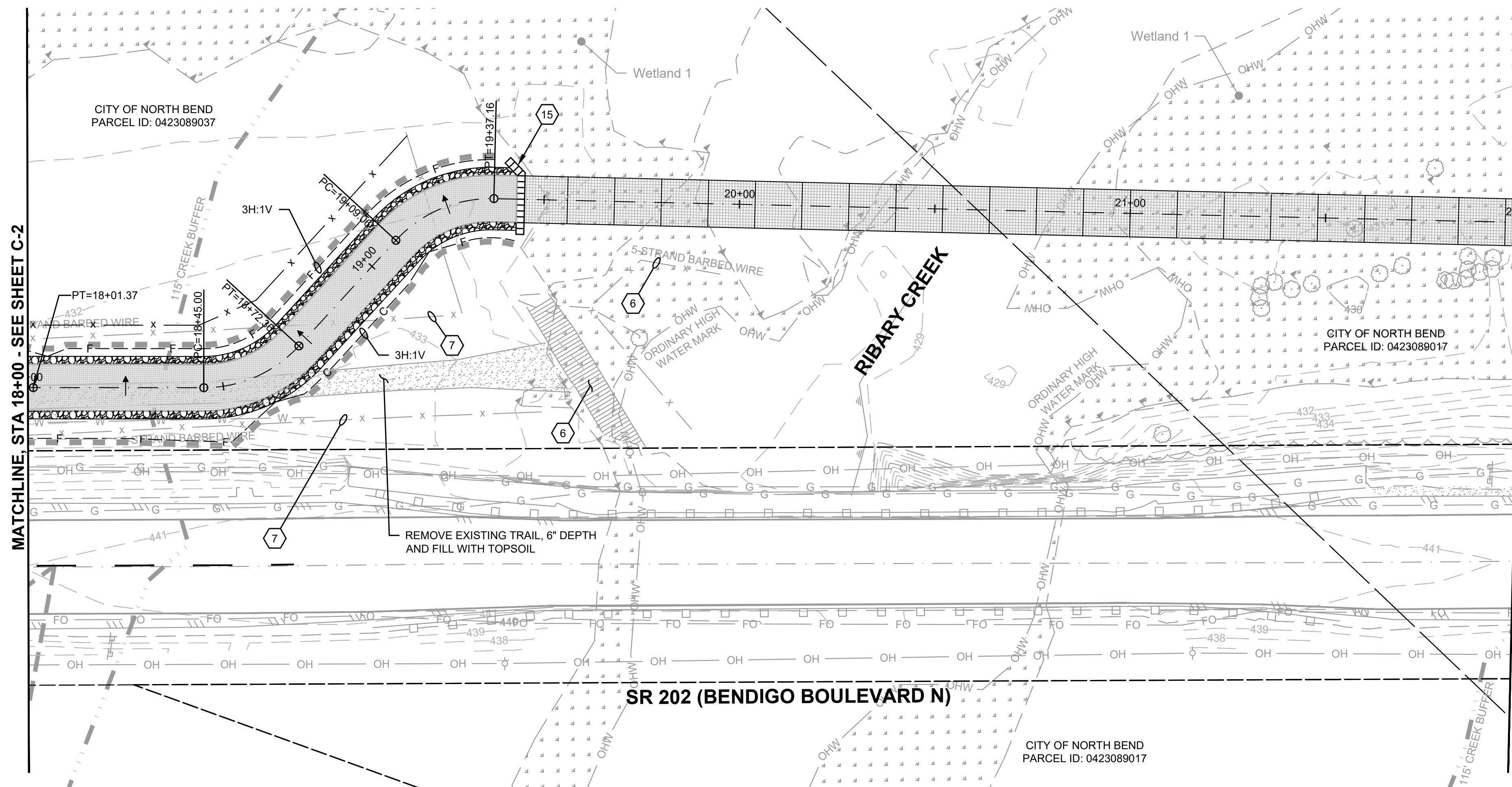


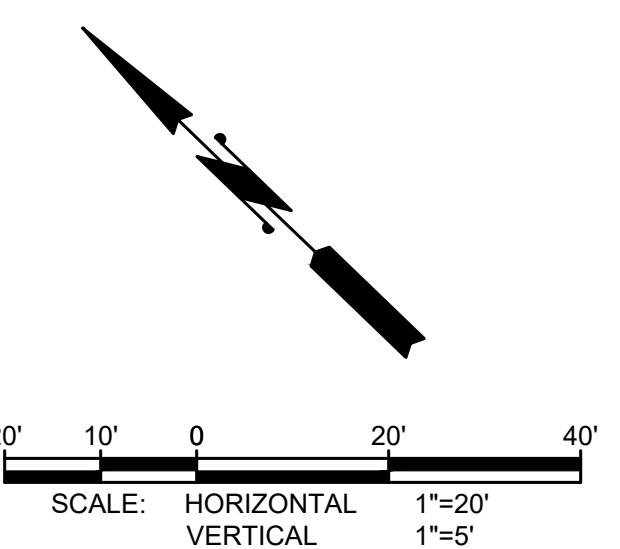
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NORTH BEND**  
**SR 202 SHARED-USE  
TRAIL EXTENSION**



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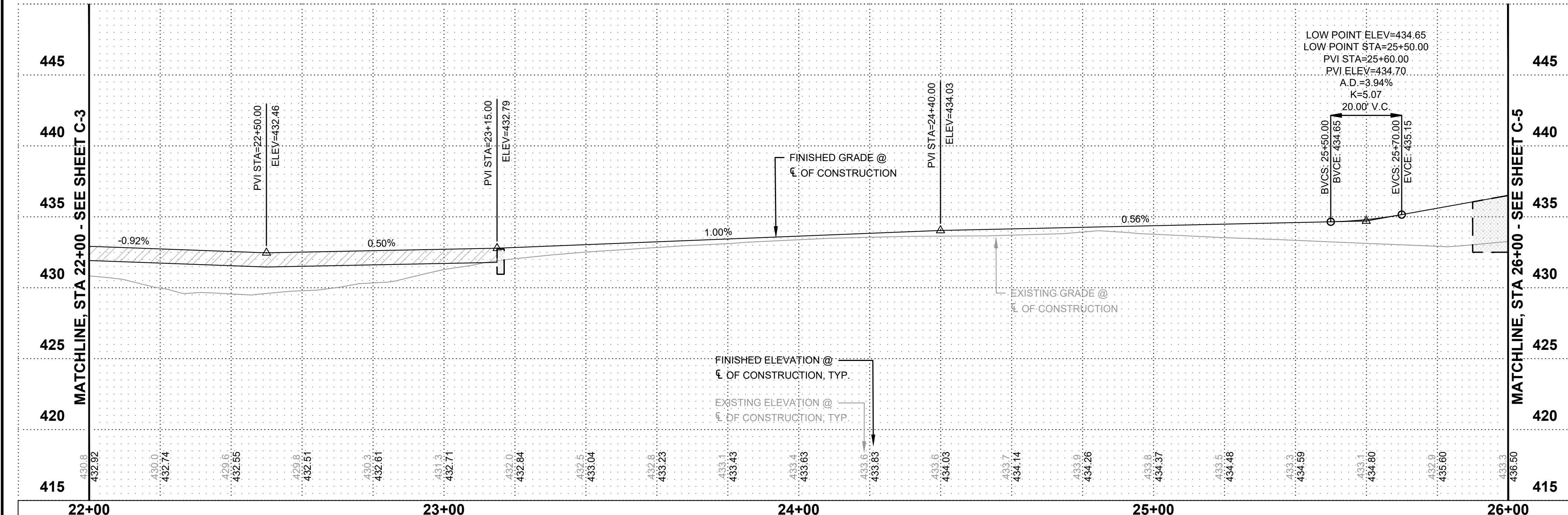


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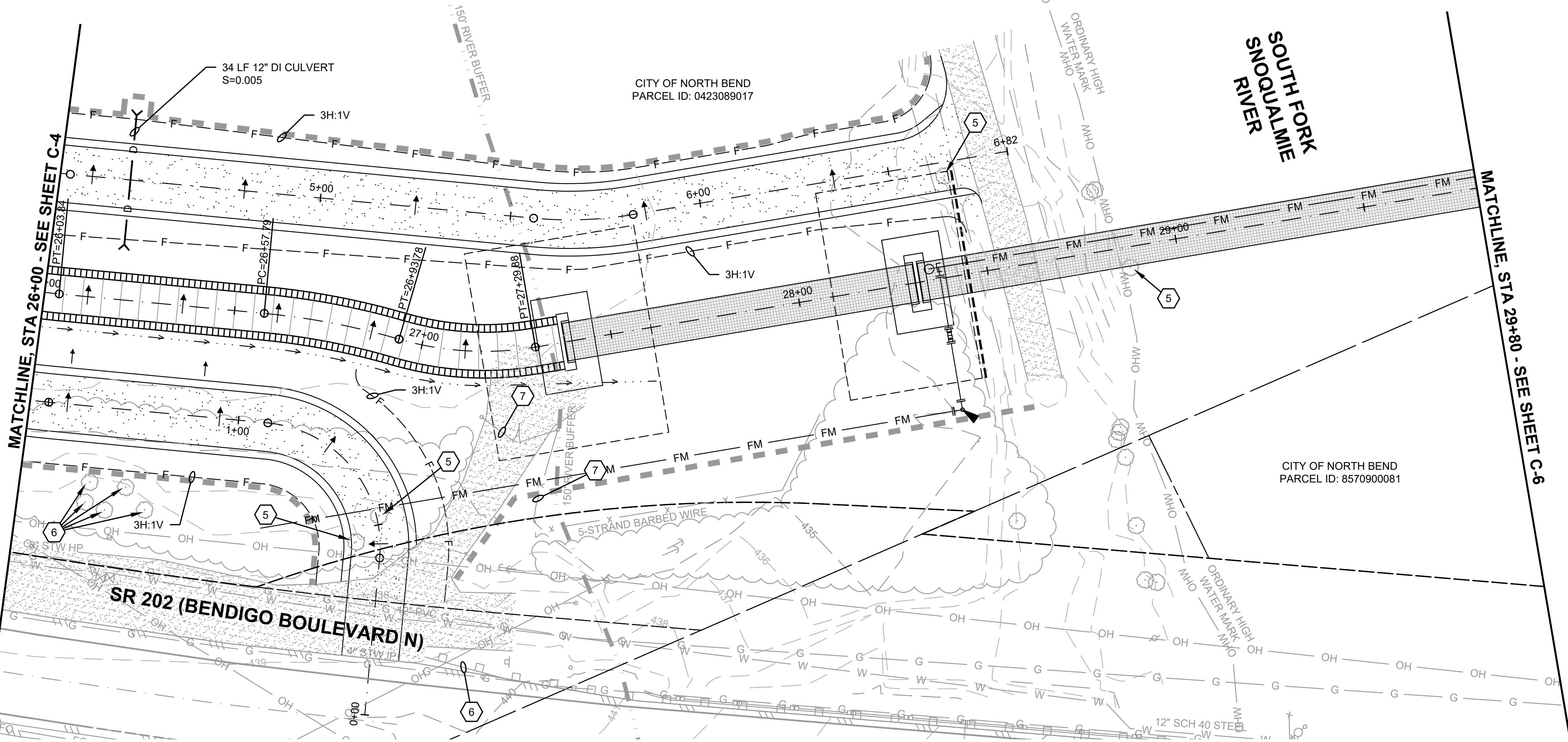
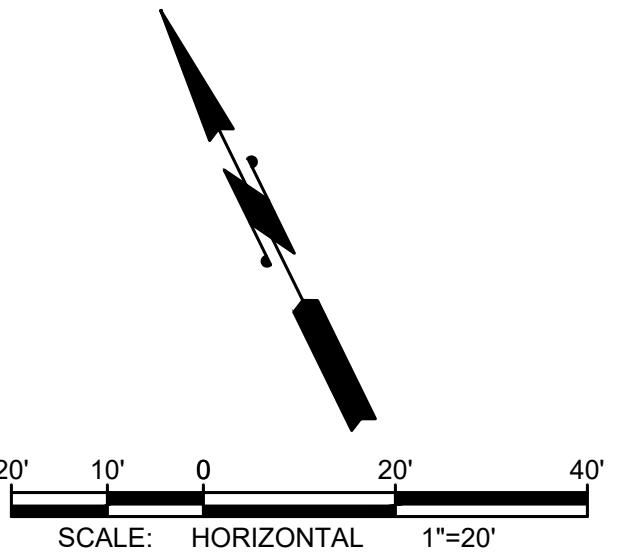


**CITY OF  
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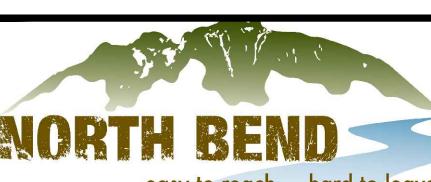
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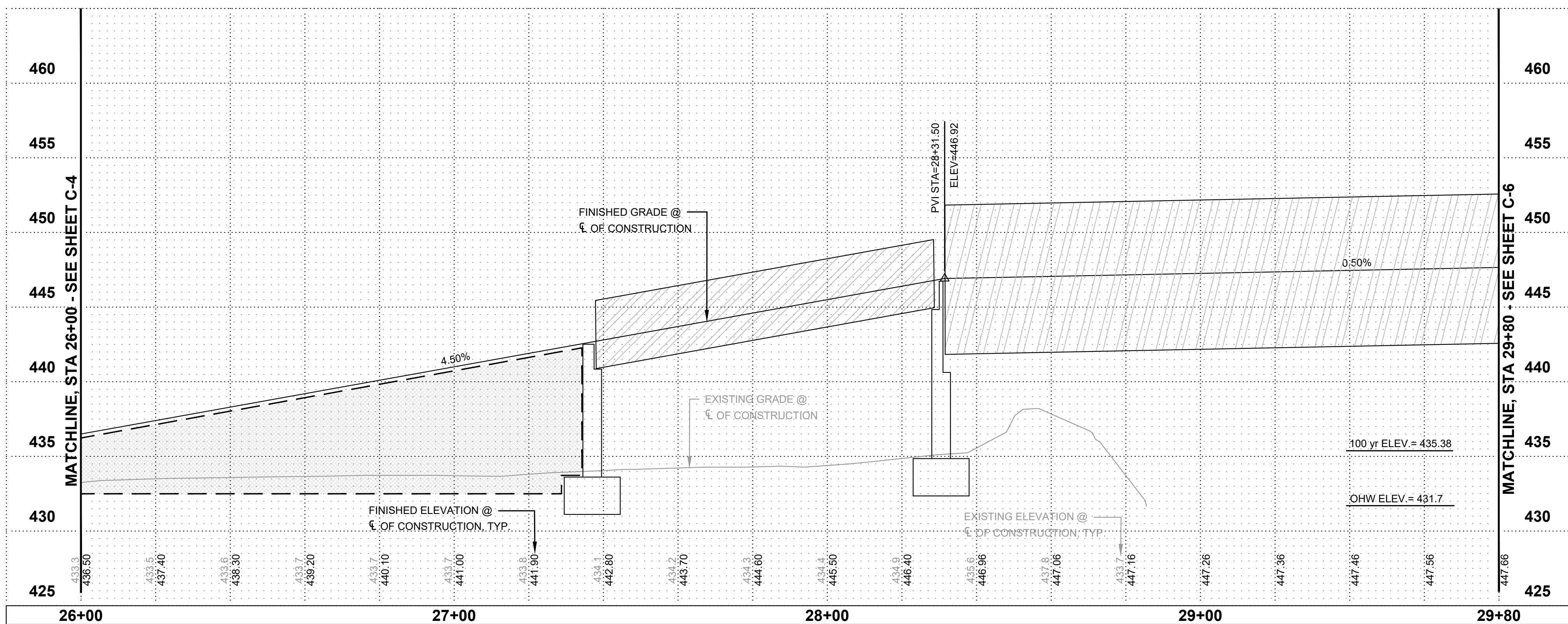
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### CITY OF NORTH BEND

#### SR 202 SHARED-USE TRAIL EXTENSION



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### PLAN & PROFILE





# **NORTH BEND**

easy to reach...hard to leave.

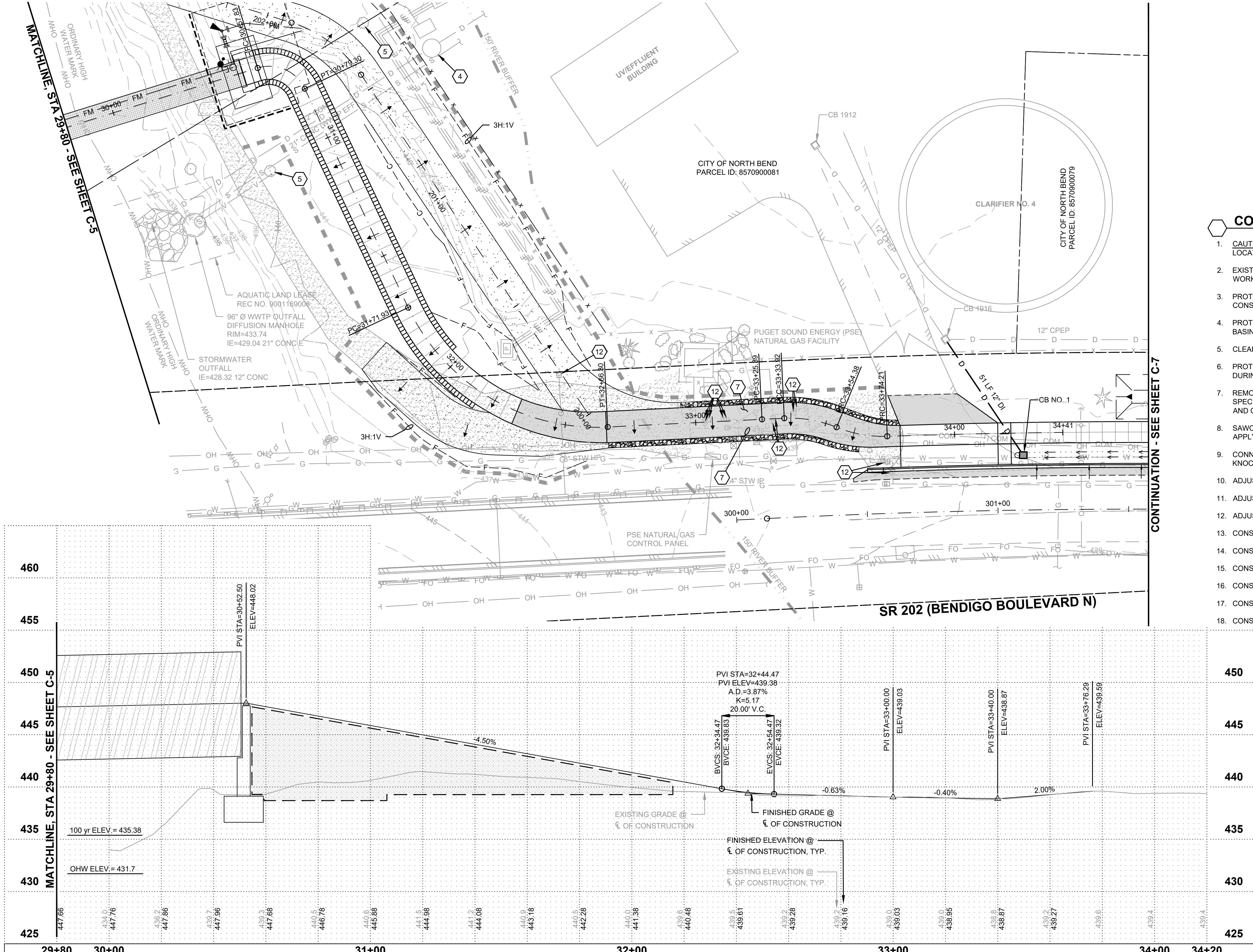
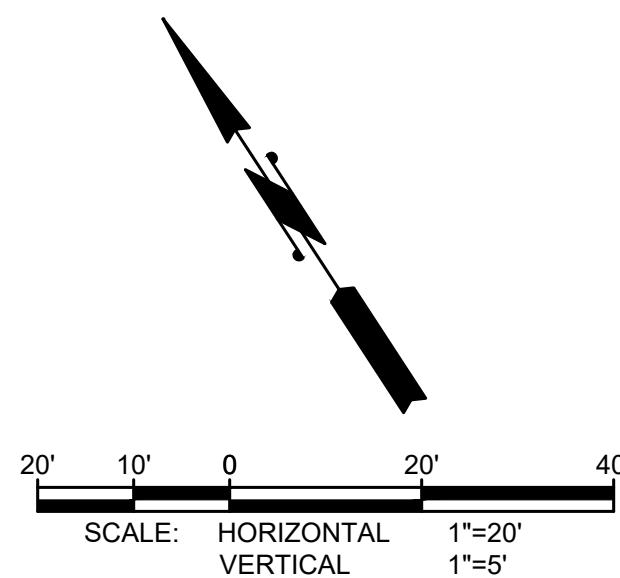
# CITY OF NORTH BEND

## **SR 202 SHARED-USE TRAIL EXTENSION**

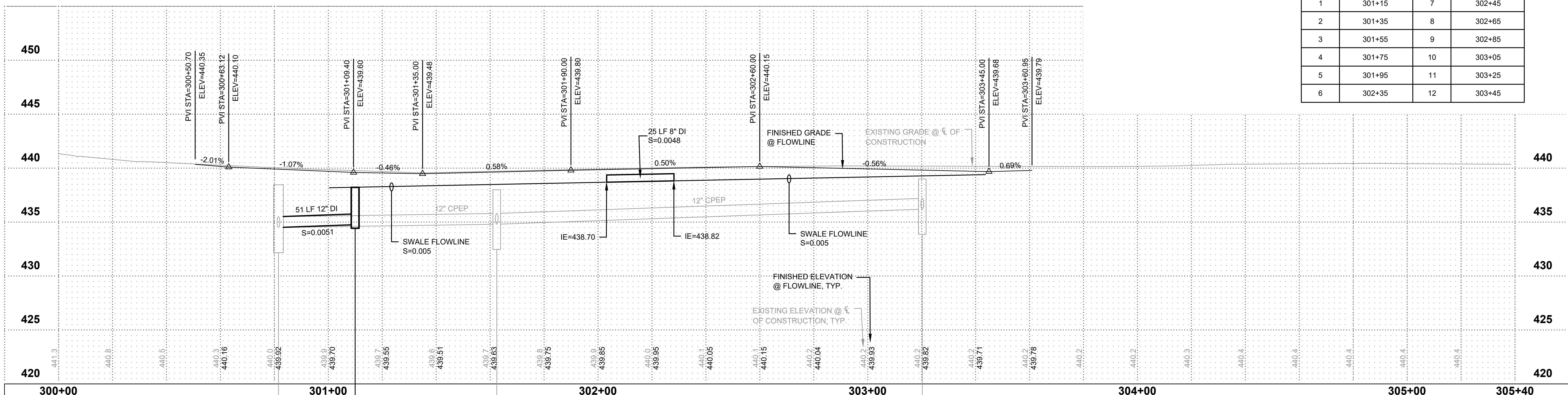
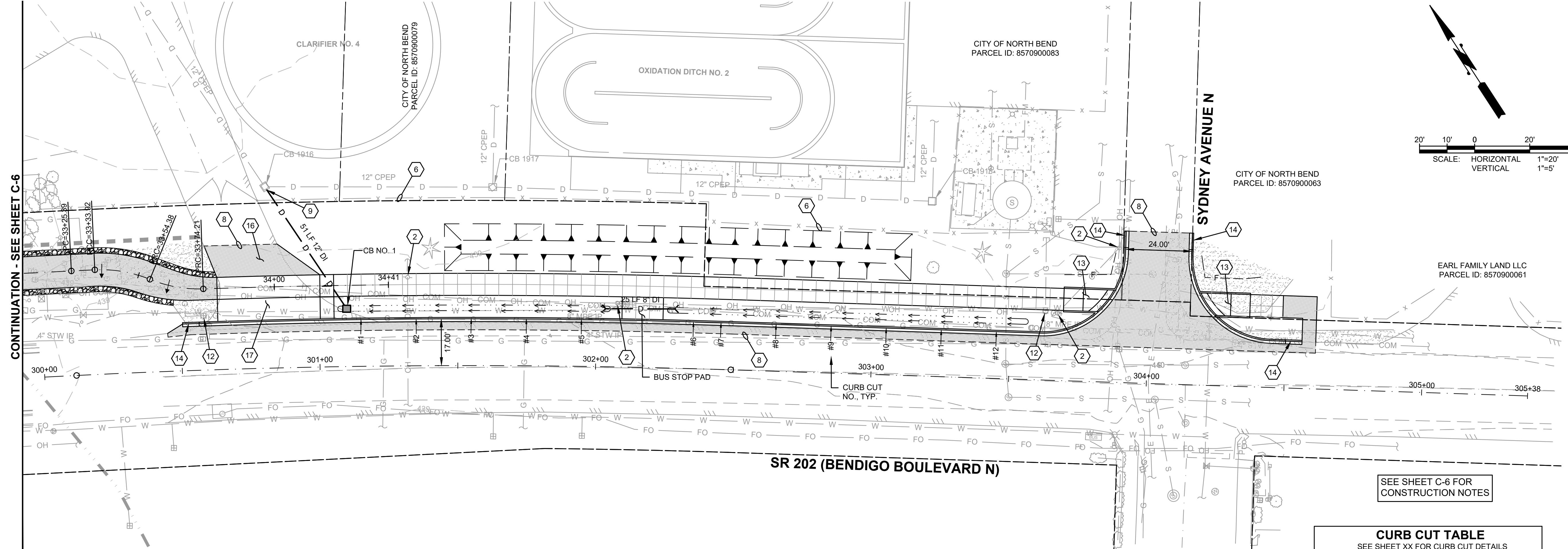
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16. CONSTRUCT HMA DRIVEWAY REPAIR.
17. CONSTRUCT CEMENT CONCRETE DRIVEWAY ENTRANCE.
18. CONSTRUCT NEW FENCE OR RAILING PER DETAIL SHEET XX.



## PLAN & PROFILE

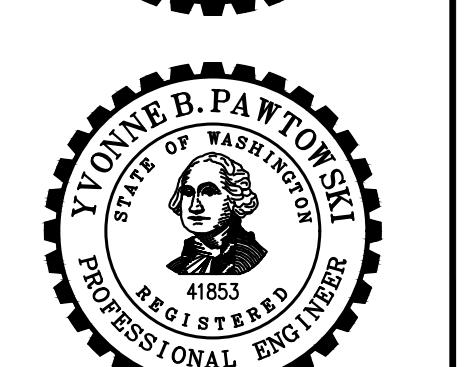


No.	DATE	REVISION
ISSUED FOR: PRELIMINARY DESIGN SUBMITTAL		
ISSUE DATE:	DEC 2024	
APPROVED BY:	R.W.K.	
CHECKED BY:	K.W.B.	
DRAWN BY:	S.E.M.	
G&O #:	24421.00	
FILE:	PLANPROF.DWG	
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TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		

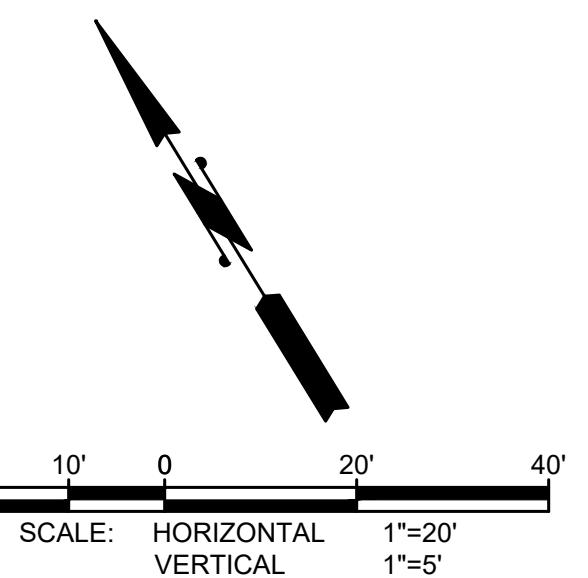
**PLAN & PROFILE**

SHEET: C-7 OF: 46

**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
3710 168TH STREET NORTHEAST,  
BUILDING B, SUITE 210  
ARLINGTON, WA 98223  
(360) 454-5490

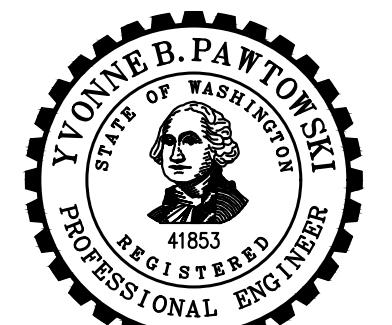


**CITY OF  
NORTH BEND**  
**SR 202 SHARED-USE  
TRAIL EXTENSION**



### CONSTRUCTION NOTES

1. CAUTION : POTENTIAL UTILITY CONFLICT. VERIFY (POTHOLE) EXACT LOCATION AND DEPTH OF EXISTING UTILITY. SEE ORDER OF WORK.
2. EXISTING UTILITY TO BE REMOVED/RELOCATED BY OTHERS. COORDINATE WORK WITH UTILITY REPRESENTATIVE. SEE GENERAL NOTE 2, SHEET X.
3. PROTECT EXISTING UTILITY POLE, GUY WIRE, PEDESTAL, VAULT DURING CONSTRUCTION. SEE GENERAL NOTE 2 SHEET X.
4. PROTECT EXISTING FIRE HYDRANT, WATER METER, WATER VALVE, CATCH BASIN DURING CONSTRUCTION.
5. CLEAR AND GRUB EXISTING TREE,
6. PROTECT EXISTING BOARDWALK, ASPHALT, FENCE, GUARDRAIL, AND TREE, DURING CONSTRUCTION.
7. REMOVE AND WASTEHAUL EXISTING PAVEMENT, FENCE, GATE, PER THE SPECIFICATIONS. THIS WORK TO BE INCLUDED IN REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
8. SAWCUT EXISTING PAVEMENT AND SEAL JOINT (WHERE APPLICABLE) THEN APPLY SAND BLANKET TO THE SURFACE JOINT.
9. CONNECT NEW STORM PIPE TO EXISTING CATCH BASIN. CORE DRILL IF KNOCK OUT IS NOT PRESENT.
10. ADJUST EXISTING SEWER MANHOLE TO GRADE.
11. ADJUST EXISTING WATER VALVE BOX TO GRADE.
12. ADJUST EXISTING GAS VALVE BOX TO GRADE.
13. CONSTRUCT CURB RAMP PER DETAIL(S) SHEET XX.
14. CONSTRUCT CURB END SECTION PER DETAIL SHEET XX.
15. CONSTRUCT MODULAR BLOCK HEADWALL PER DETAIL SHEET XX.
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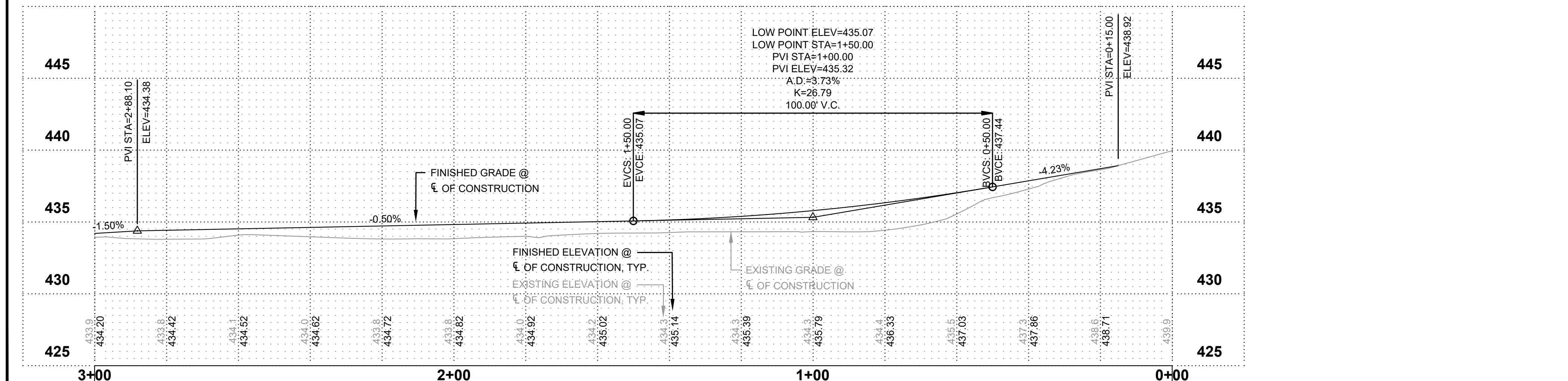
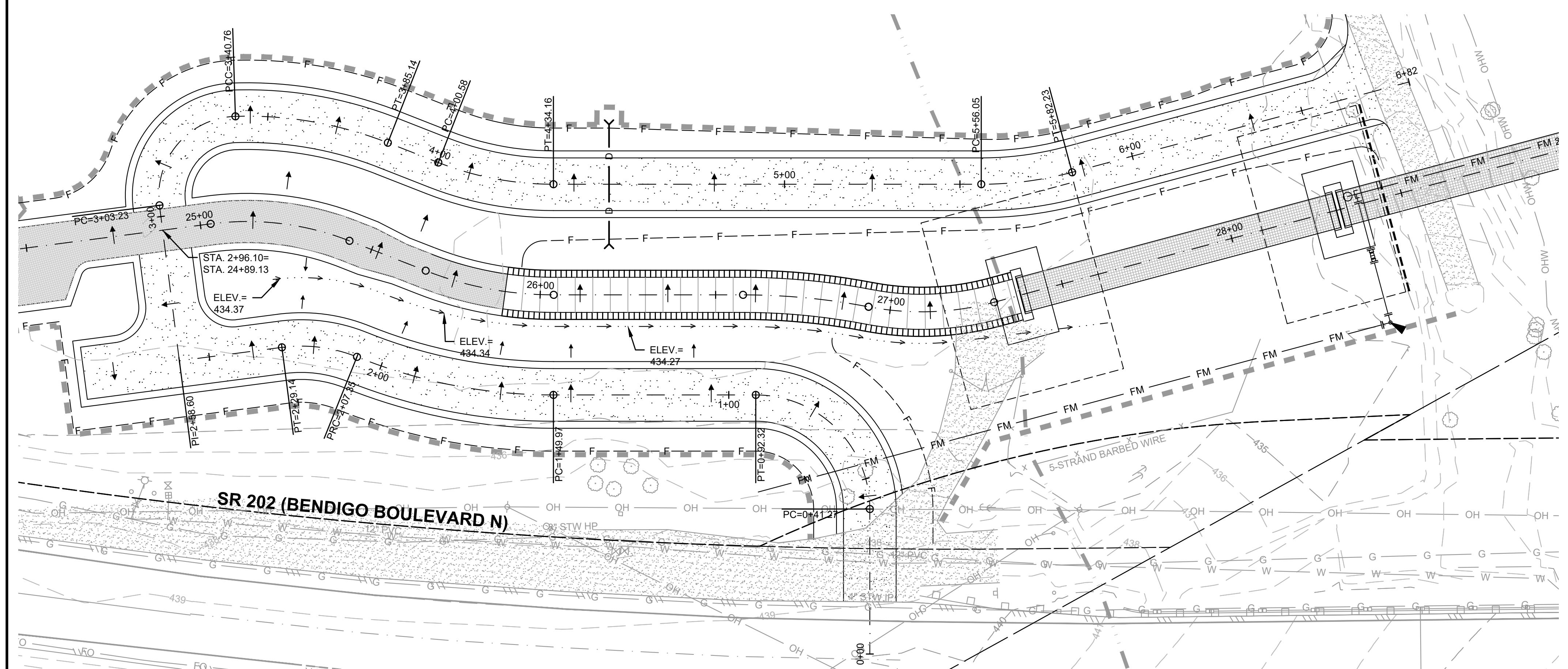
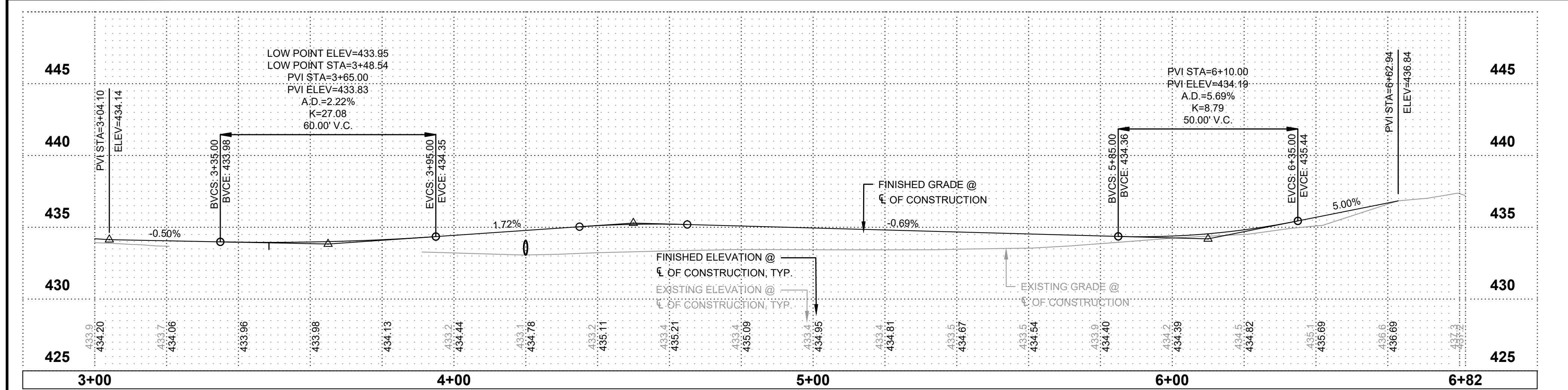
**NORTH BEND**  
easy to reach...hard to leave

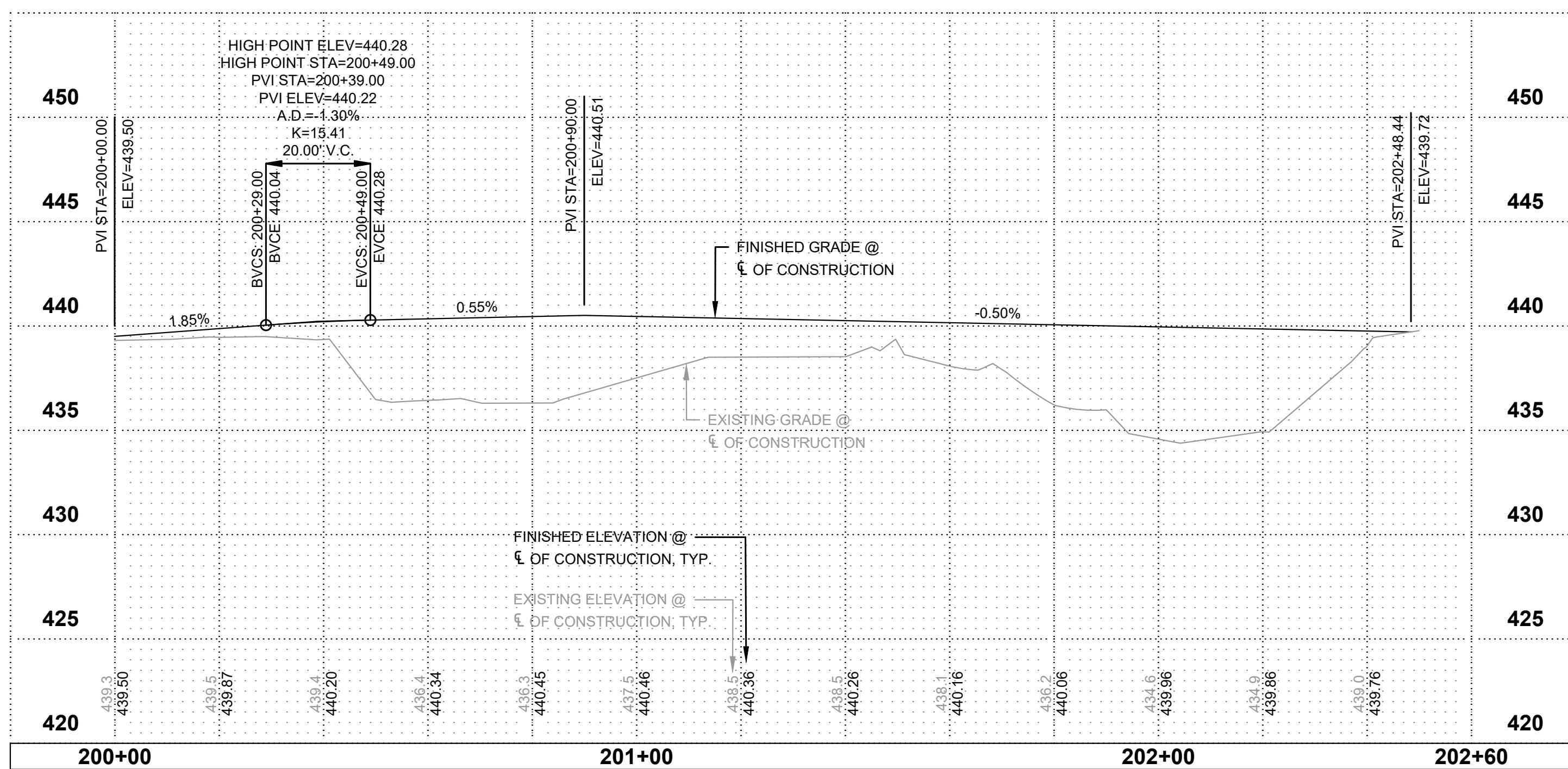
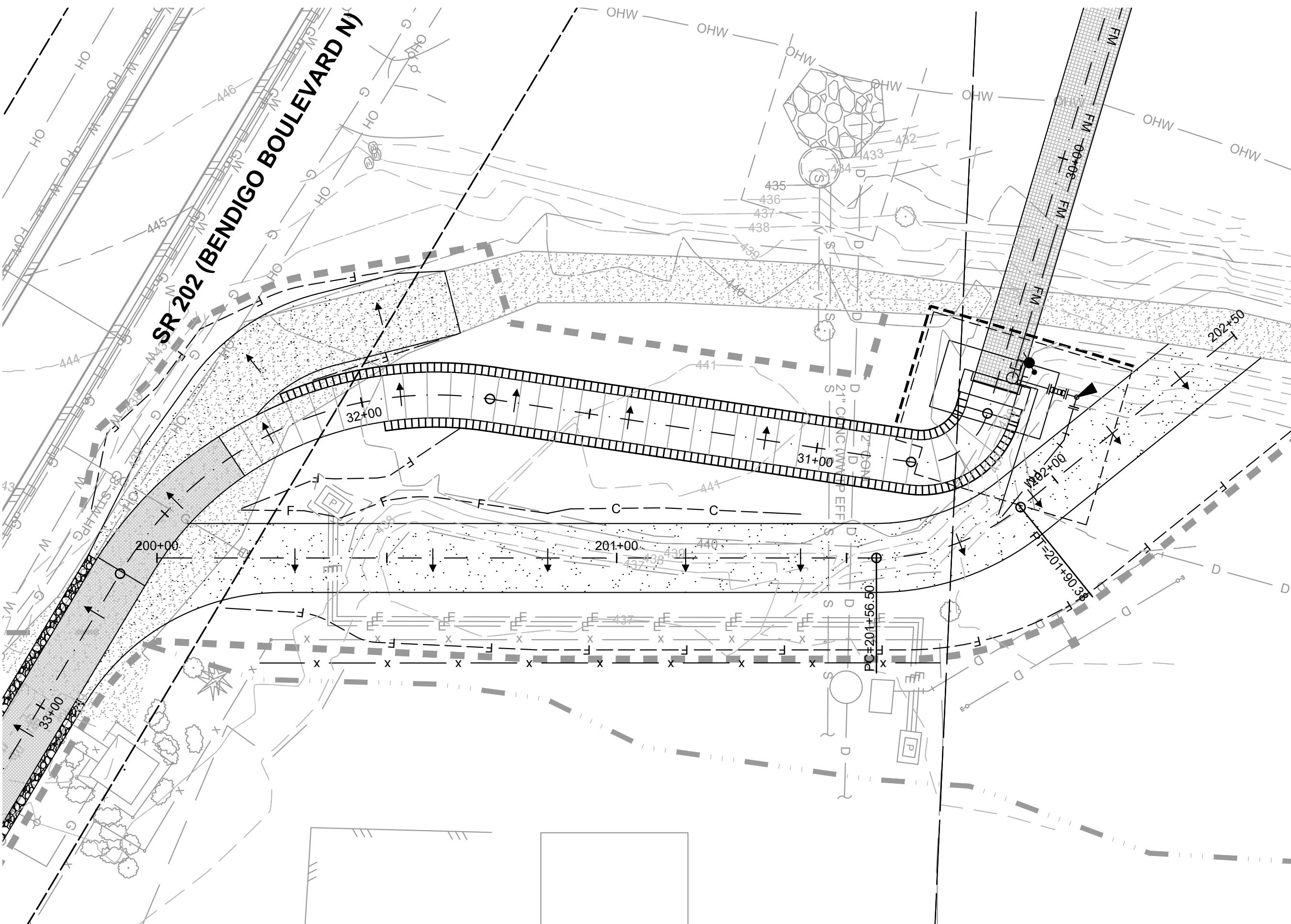
**CITY OF  
NORTH BEND**  
**SR 202 SHARED-USE  
TRAIL EXTENSION**

No.	DATE	REVISION
ISSUED FOR:		
PRELIMINARY DESIGN SUBMITTAL		
ISSUE DATE:	DEC 2024	
APPROVED BY:	R.W.K.	
CHECKED BY:	K.W.B.	
DRAWN BY:	S.E.M.	
G&O #:	24421.00	
FILE:	PLANPROF.DWG	
0	1"	2"
TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		

**PLAN & PROFILE -  
LEFT BANK ACCESS  
ROAD**

SHEET: C-8 OF: 46





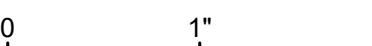
## CONSTRUCTION NOTES

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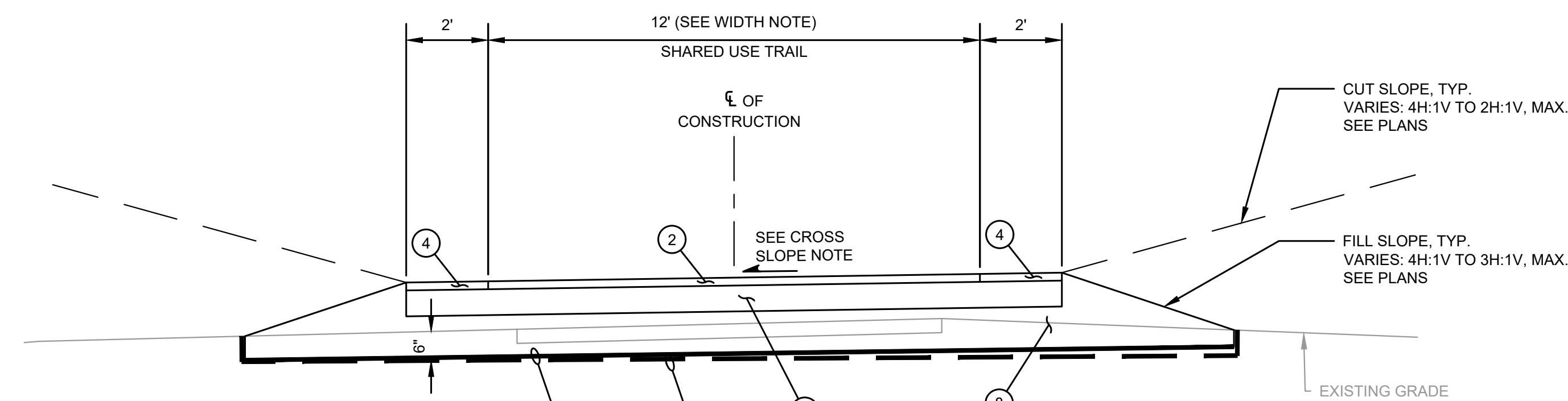


# CITY OF NORTH BEND

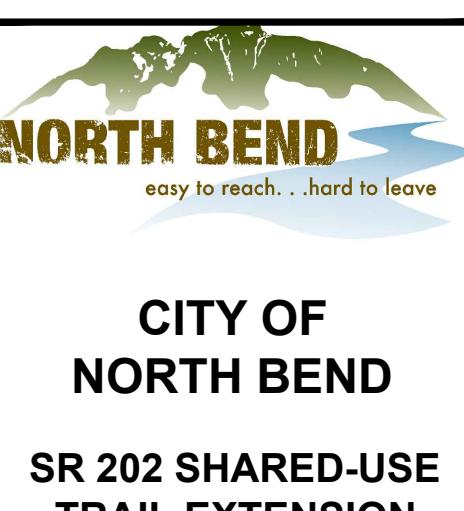
## SR 202 SHARED-USE TRAIL EXTENSION

No.	DATE	REVISION
<b>ISSUED FOR:</b>		
<b>PRELIMINARY DESIGN SUBMITTAL</b>		
ISSUE DATE:	DEC 2024	
APPROVED BY:	R.W.K.	
CHECKED BY:	K.W.B.	
DRAWN BY:	S.E.M.	
G&O #:	24421.00	
FILE:	PLANPROF.DWG	
0	1"	2"
		
<b>TWO INCHES AT FULL SCALE.</b> <b>IF NOT, SCALE ACCORDINGLY</b>		

# PLAN & PROFILE - RIGHT BANK ACCESS ROAD



MATERIAL CODE	
(XX)	DESCRIPTION
1	EXCAVATION, EMBANKMENT AND GRADING LIMITS.
2	2" COMPACTED DEPTH HMA.
3	6" COMPACTED DEPTH HMA.
4	2" COMPACTED DEPTH CRUSHED SURFACING TOP COURSE.
5	6" COMPACTED DEPTH CRUSHED SURFACING TOP COURSE.
6	8" COMPACTED DEPTH CRUSHED SURFACING TOP COURSE.
7	8" COMPACTED DEPTH CRUSHED SURFACING BASE COURSE.
8	GRAVEL BORROW, DEPTH AS REQUIRED.
9	2X6" LEVEL SPREADER PER DETAIL SHEET XX.
10	CEMENT CONC. CURB AND GUTTER WITH CURB CUTS AS NOTED ON THE PLANS. SEE DETAILS SHEET XX-XX.
11	CEMENT CONCRETE SIDEWALK PER DETAILS ON SHEET XX.
12	4" COMPACTED DEPTH TOPSOIL TYPE A AND HYDROSEED.
13	GEOGRID, SEE SPECIFICATIONS.

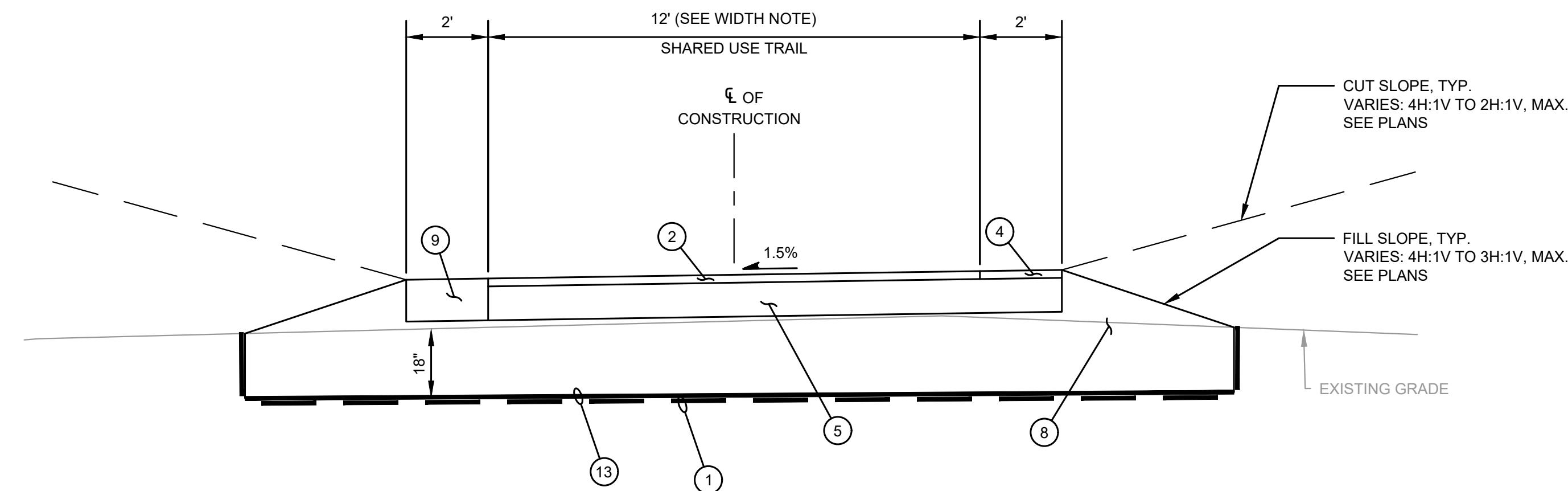


**TYPICAL CROSS SECTION  
SHARED USE TRAIL  
PROJECT BEGIN TO APPROX. STA. 19+45  
APPROX. STA. 32+15 TO APPROX. STA. 33+75**

NTS

**SHARED USE TRAIL WIDTH NOTE:**

TAPER TRAIL WIDTH FROM 12' TO 10' BETWEEN STATION 25+50 TO 25+60  
TAPER TRAIL WIDTH FROM 10' TO 12' BETWEEN STATION 32+20 TO 32+65



APPROX. STA. 19+45 TO APPROX. STA. 23+15  
BOARDWALK - SEE STRUCTURAL SHEETS

APPROX. STA. 25+90 TO APPROX. STA. 27+40  
RETAINING WALL SECTION - SEE RETAINING WALL SHEETS

APPROX. STA. 27+40 TO APPROX. STA. 30+50  
BRIDGE - SEE STRUCTURAL SHEETS

APPROX. STA. 30+50 TO APPROX. STA. 32+15  
RETAINING WALL SECTION - SEE RETAINING WALL SHEETS

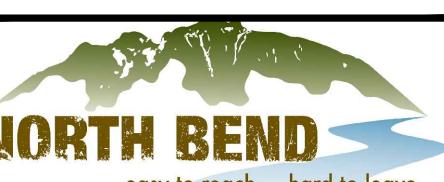
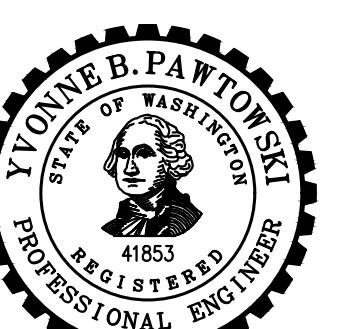
**TYPICAL CROSS SECTION  
SHARED USE TRAIL  
APPROX. STA. 23+15 TO APPROX. STA. 25+90**

NTS

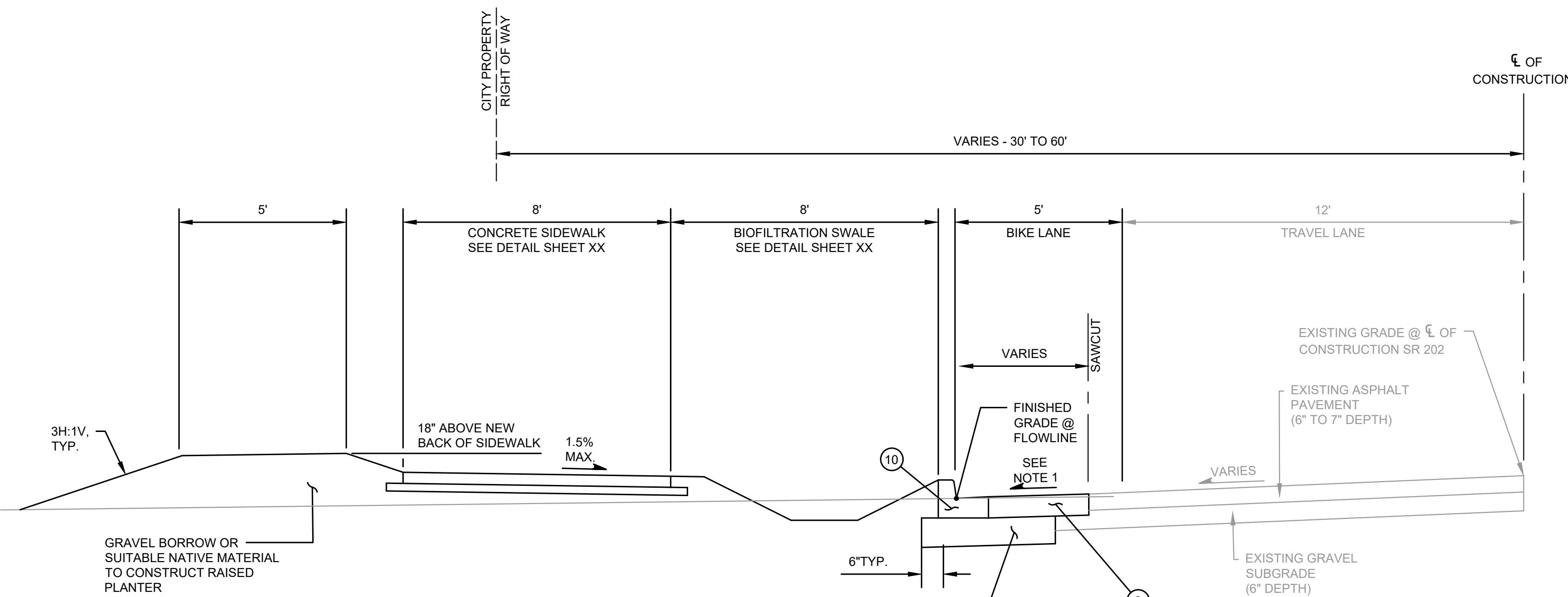
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APPROVED BY:	R.W.K.	
CHECKED BY:	K.W.B.	
DRAWN BY:	S.E.M.	
G&O #:	24421.00	
FILE:	CROSS SECTIONS.DWG	
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TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		

**TYPICAL CROSS  
SECTIONS**

**SHEET: C-10 OF: 46**

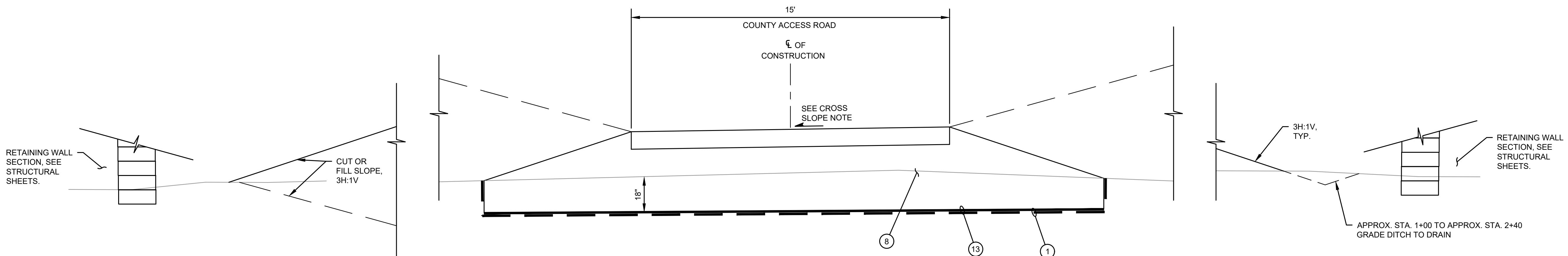


**CITY OF  
NORTH BEND**  
**SR 202 SHARED-USE  
TRAIL EXTENSION**



**TYPICAL CROSS SECTION  
SR 202 (BENDIGO BOULEVARD N.)**

NTS



**APPROX. STA. 200+00 TO APPROX. STA. 202+35**

NTS

**ACCESS ROAD CROSS SLOPES NOTE:**

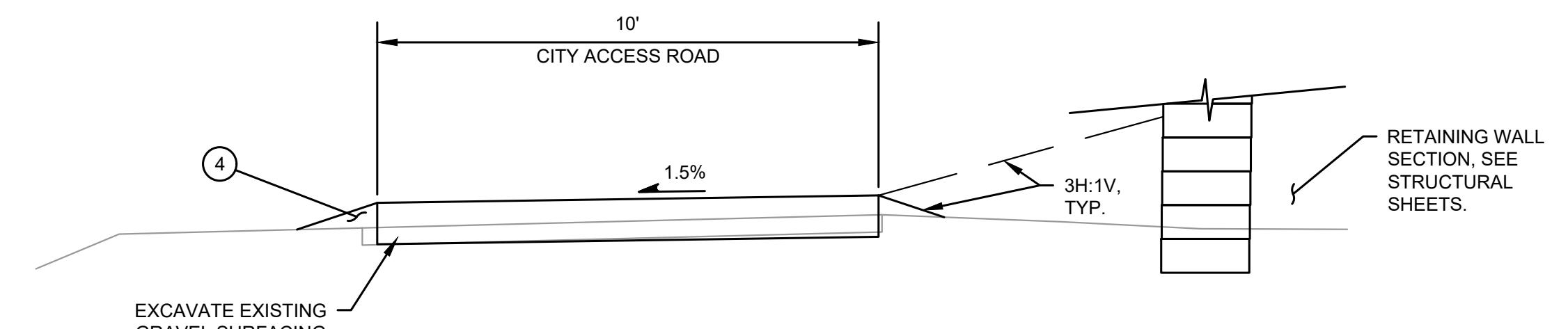
APPROX. STATION 0+15 TO APPROX. STATION 6+60 = 1.5% RIGHT-TO-LEFT  
APPROX. STATION 200+00 TO APPROX. STATION 202+35 = 1.5% LEFT-TO-RIGHT

**APPROX. STA. 0+15 TO APPROX. STA. 6+60**

NTS

**TYPICAL CROSS SECTION  
LEFT & RIGHT BANK ACCESS ROADS**

NTS

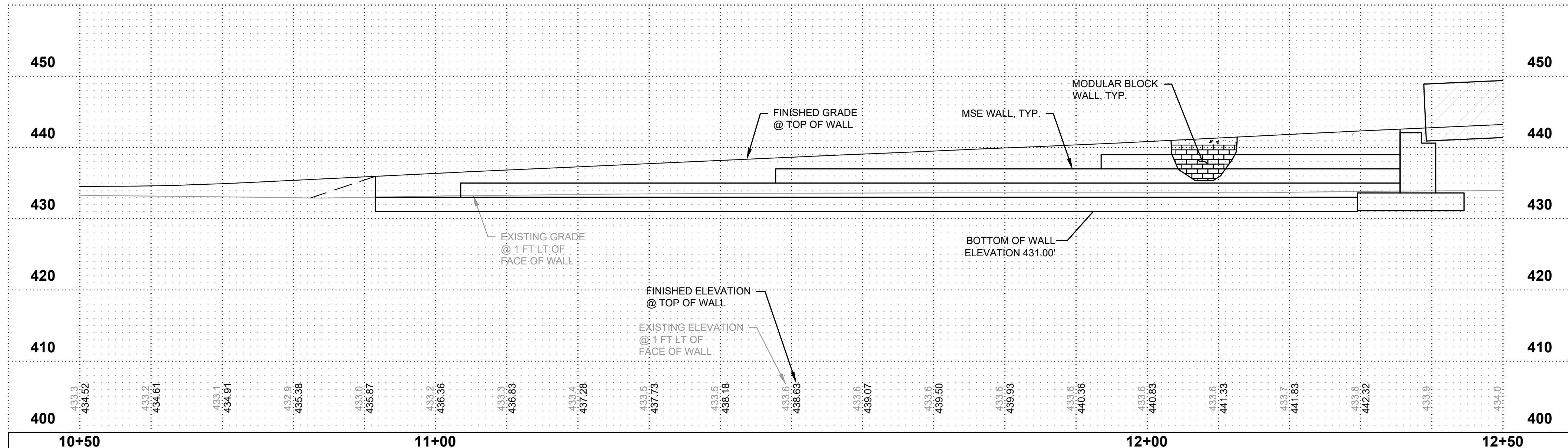


**TYPICAL CROSS SECTION  
CITY ACCESS ROAD**

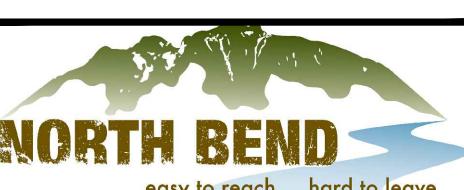
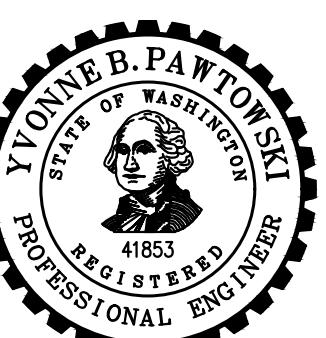
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CHECKED BY:	K.W.B.	
DRAWN BY:	S.E.M.	
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TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		

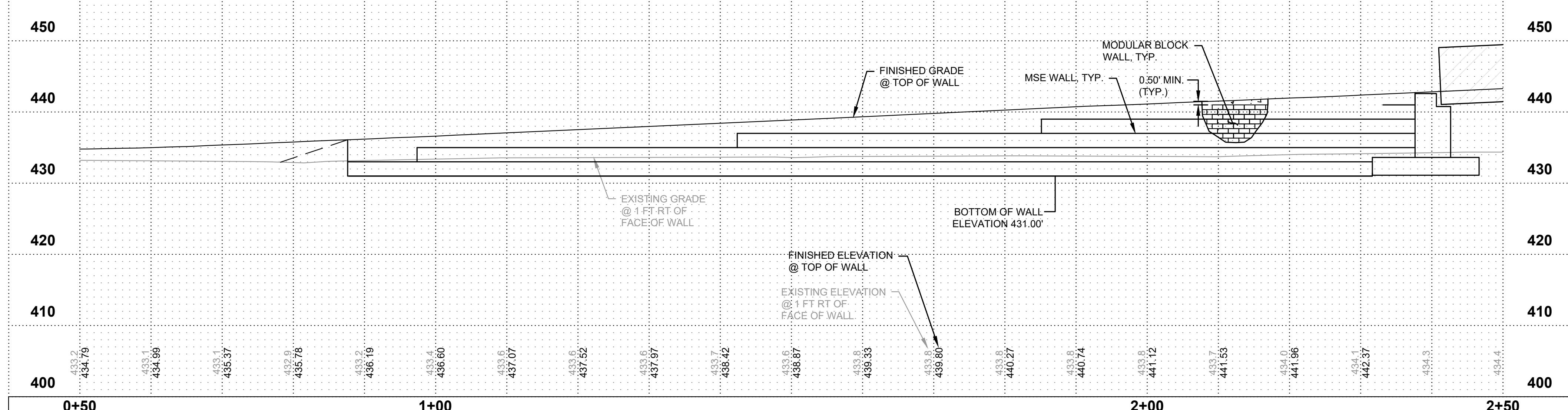
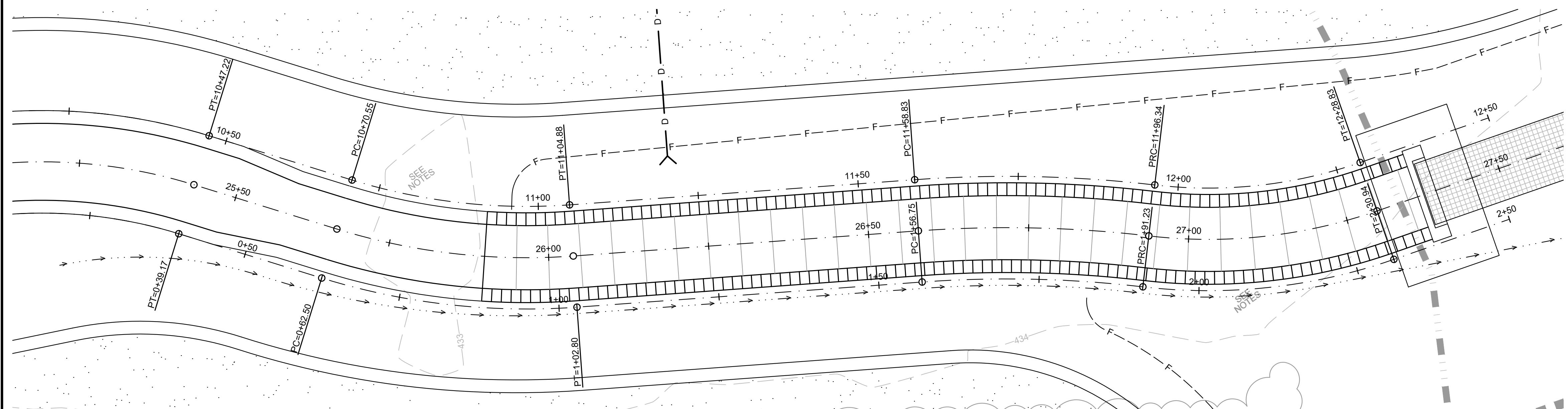
**TYPICAL CROSS  
SECTIONS**



10' 5' 0 10' 20'  
SCALE: 1'=10'



**CITY OF  
NORTH BEND**  
SR 202 SHARED-USE  
TRAIL EXTENSION



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APPROVED BY:	R.W.K.	
CHECKED BY:	K.W.B.	
DRAWN BY:	S.E.M.	
G&O #:	24421.00	
FILE:	WALLPROF.DWG	
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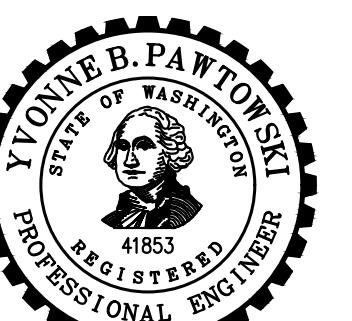
**RETAINING WALL  
PLAN & PROFILE**



Gray & Osborne, Inc.  
CONSULTING ENGINEERS

3710 168TH STREET NORTHEAST,  
BUILDING B, SUITE 210  
ARLINGTON, WA 98223  
(360) 454-5490

10' 5' 0 10' 20'  
SCALE: 1"=10'

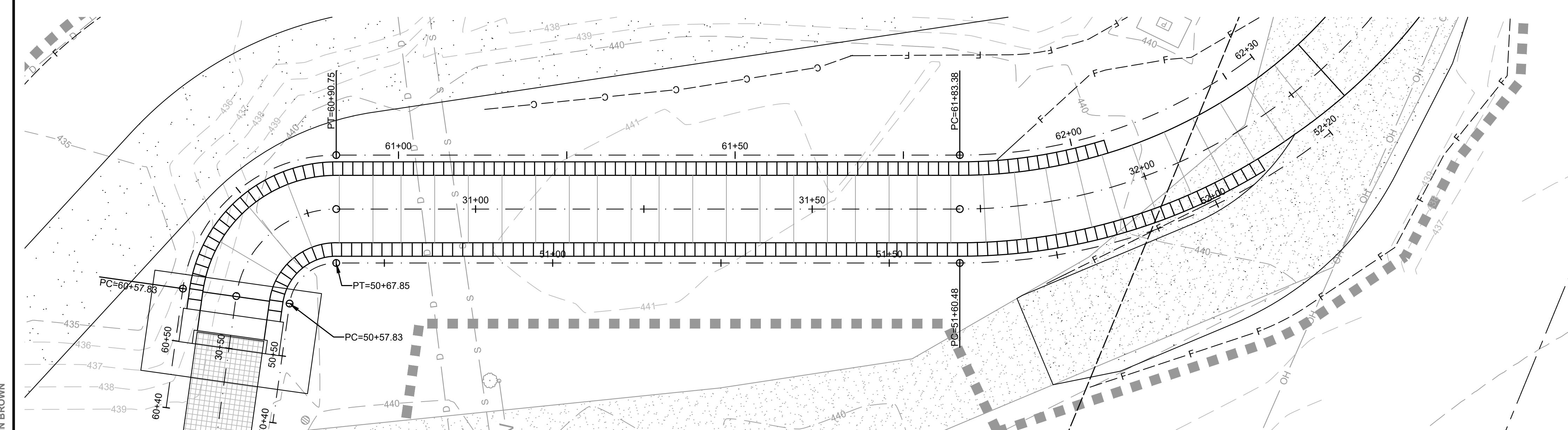
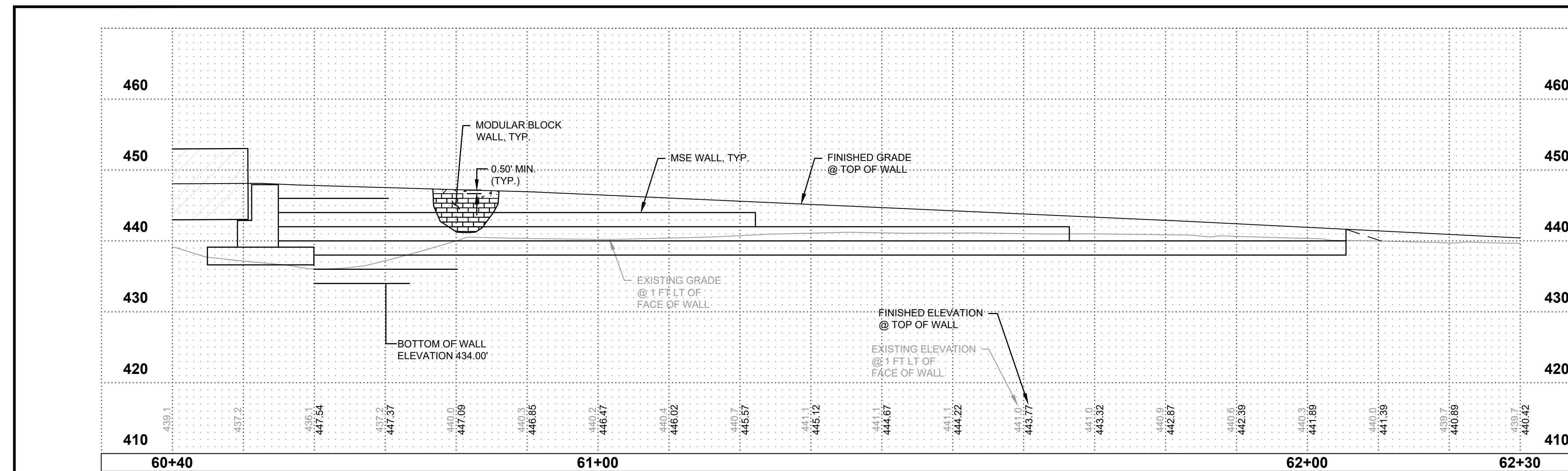


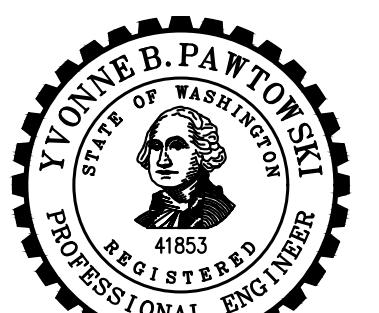
**CITY OF  
NORTH BEND**  
SR 202 SHARED-USE  
TRAIL EXTENSION

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ISSUED FOR:		
PRELIMINARY DESIGN SUBMITTAL		
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APPROVED BY:	R.W.K.	
CHECKED BY:	K.W.B.	
DRAWN BY:	S.E.M.	
G&O #:	24421.00	
FILE:	WALLPROF.DWG	
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TWO INCHES AT FULL SCALE, IF NOT, SCALE ACCORDINGLY		

**RETAINING WALL  
PLAN & PROFILE**

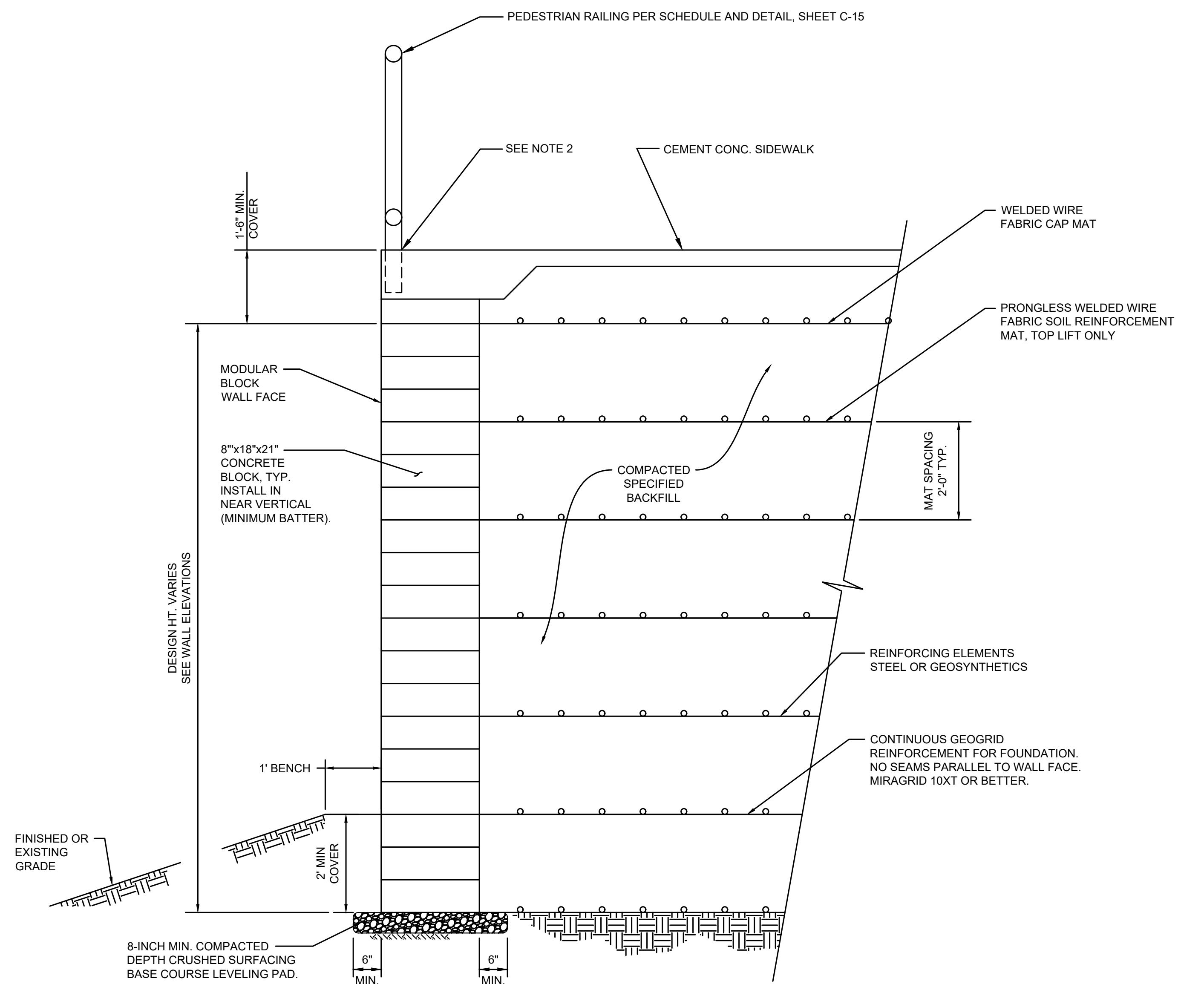
SHEET: C-13 OF: 46





**CITY OF  
NORTH BEND**  
**SR 202 SHARED-USE  
TRAIL EXTENSION**

No.	DATE	REVISION
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APPROVED BY:	R.W.K.	
CHECKED BY:	K.W.B.	
DRAWN BY:	S.E.M.	
G&O #:	24421.00	
FILE:	ROAD DET.DWG	
0	1"	2"
TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		



**MSE RETAINING WALL W/ SEGMENTAL BLOCK WALL FACE**

NOT TO SCALE

**RETAINING WALL DETAILS**



Gray & Osborne, Inc.

3710 168TH STREET NORTHEAST,  
BUILDING B, SUITE 210  
ARLINGTON, WA 98223  
(360) 454-5490

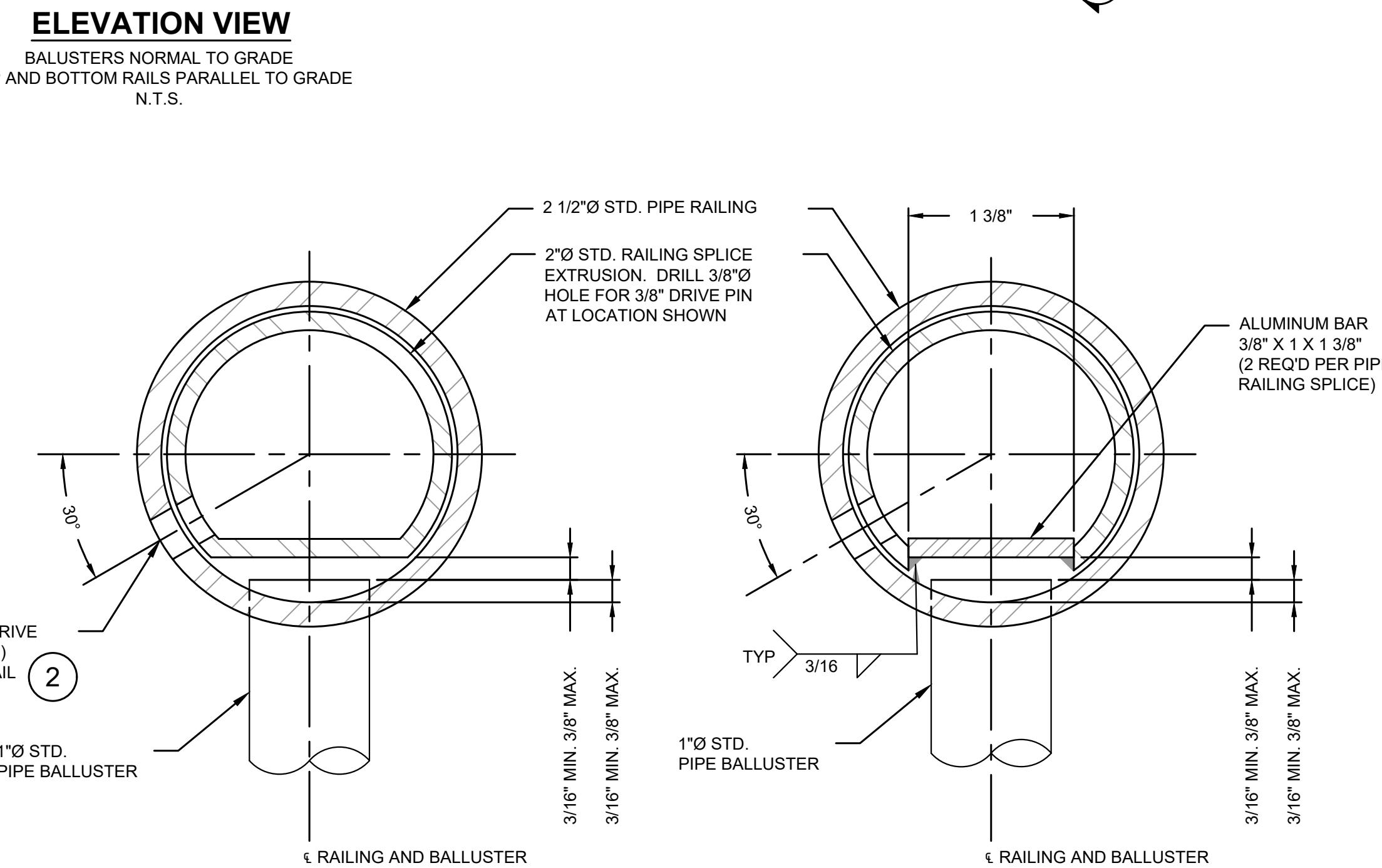
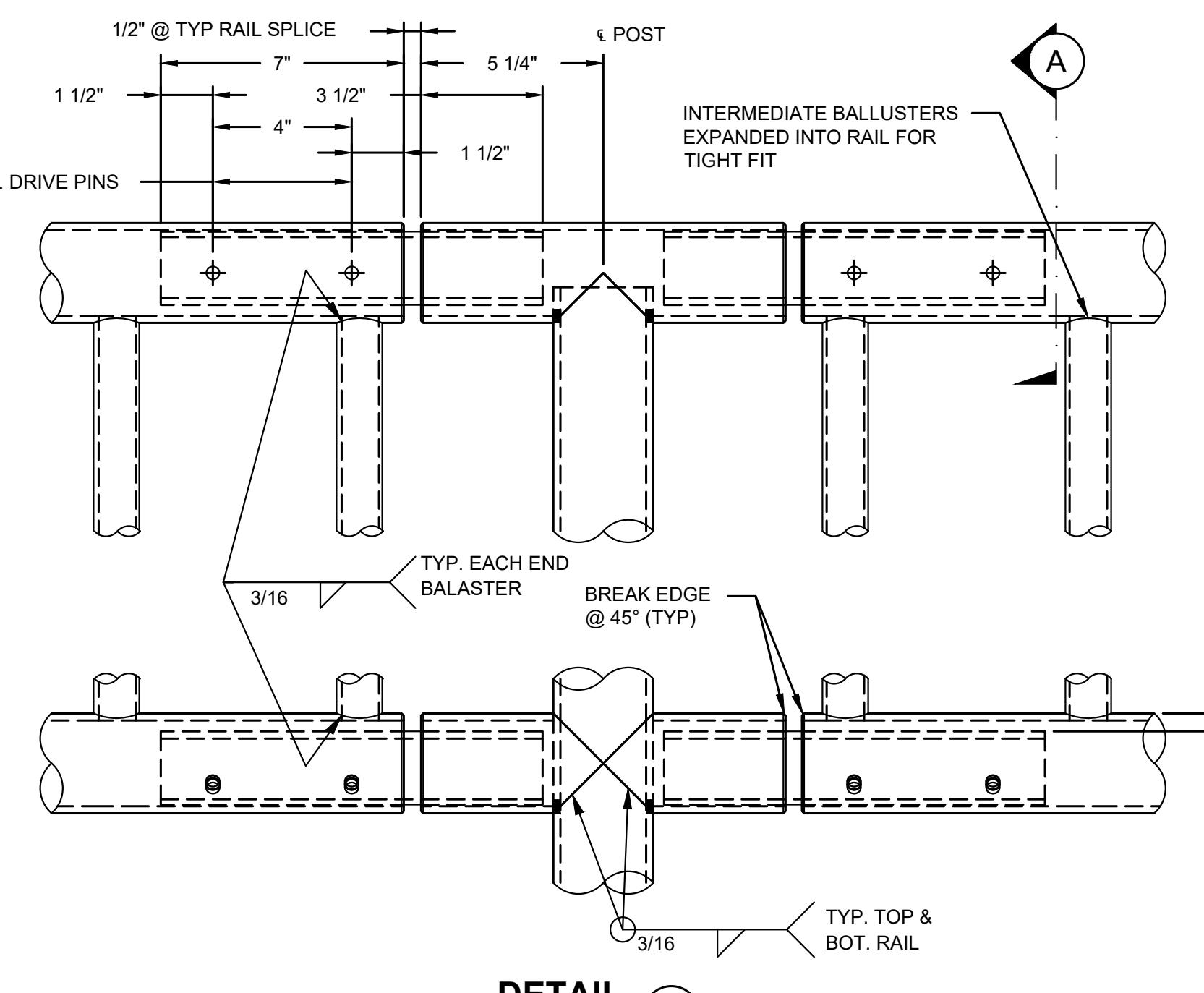
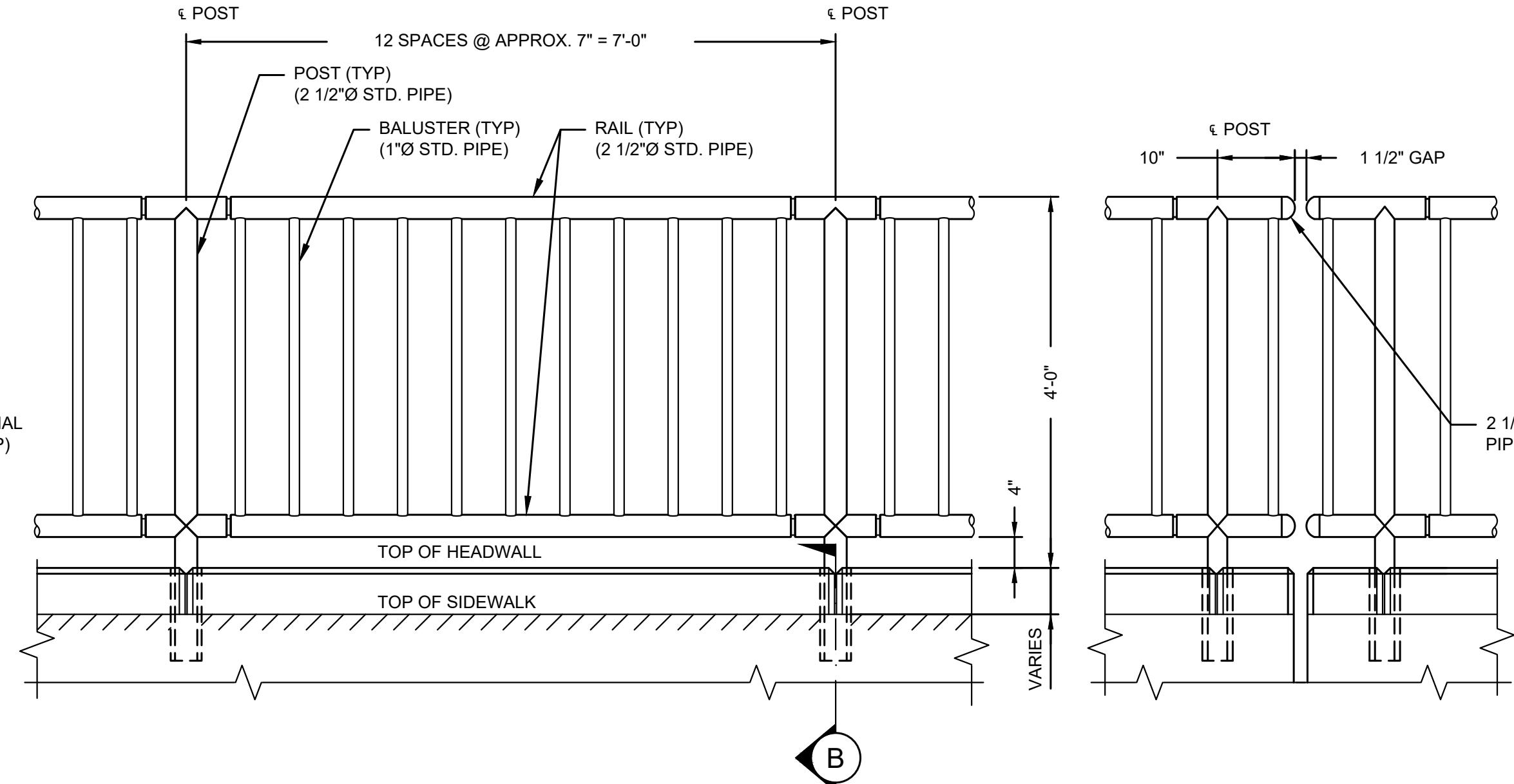
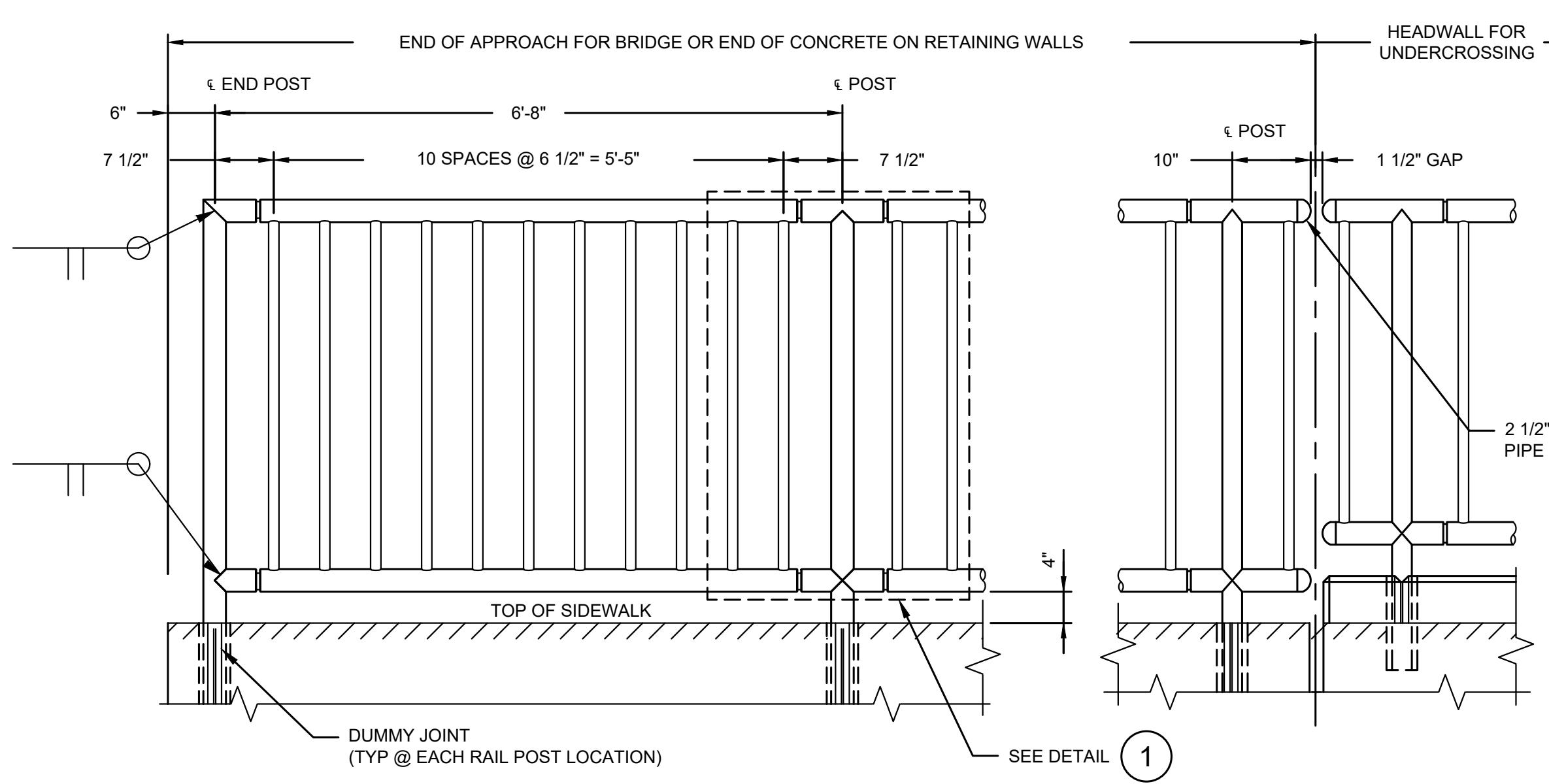


## NORTH BEND

### CITY OF NORTH BEND

#### SR 202 SHARED-USE TRAIL EXTENSION

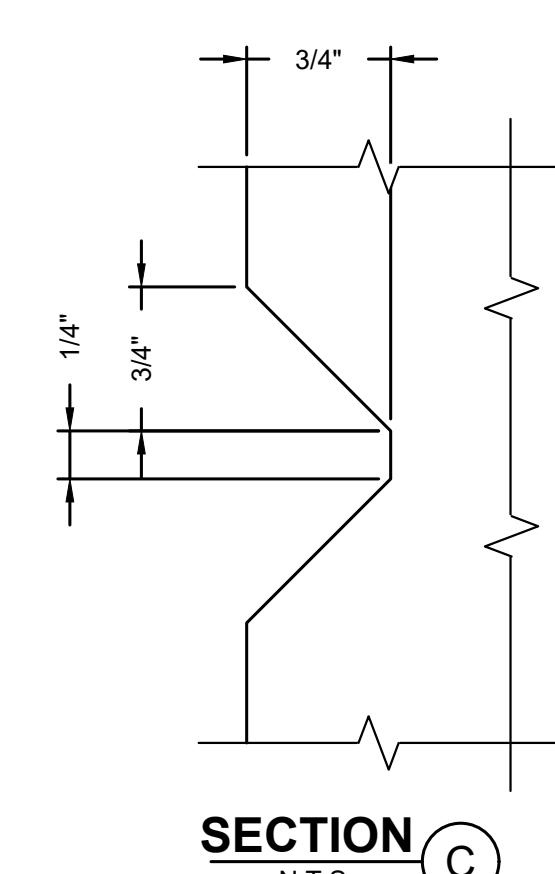
No. DATE REVISION  
ISSUED FOR: PRELIMINARY DESIGN SUBMITTAL  
ISSUE DATE: DEC 2024  
APPROVED BY: R.W.K.  
CHECKED BY: K.W.B.  
DRAWN BY: S.E.M.  
G&O #: 24421.00  
FILE: PRAIL\_DET.DWG  
0 1" 2"  
TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY



SECTION A  
N.T.S.  
OPTION #1

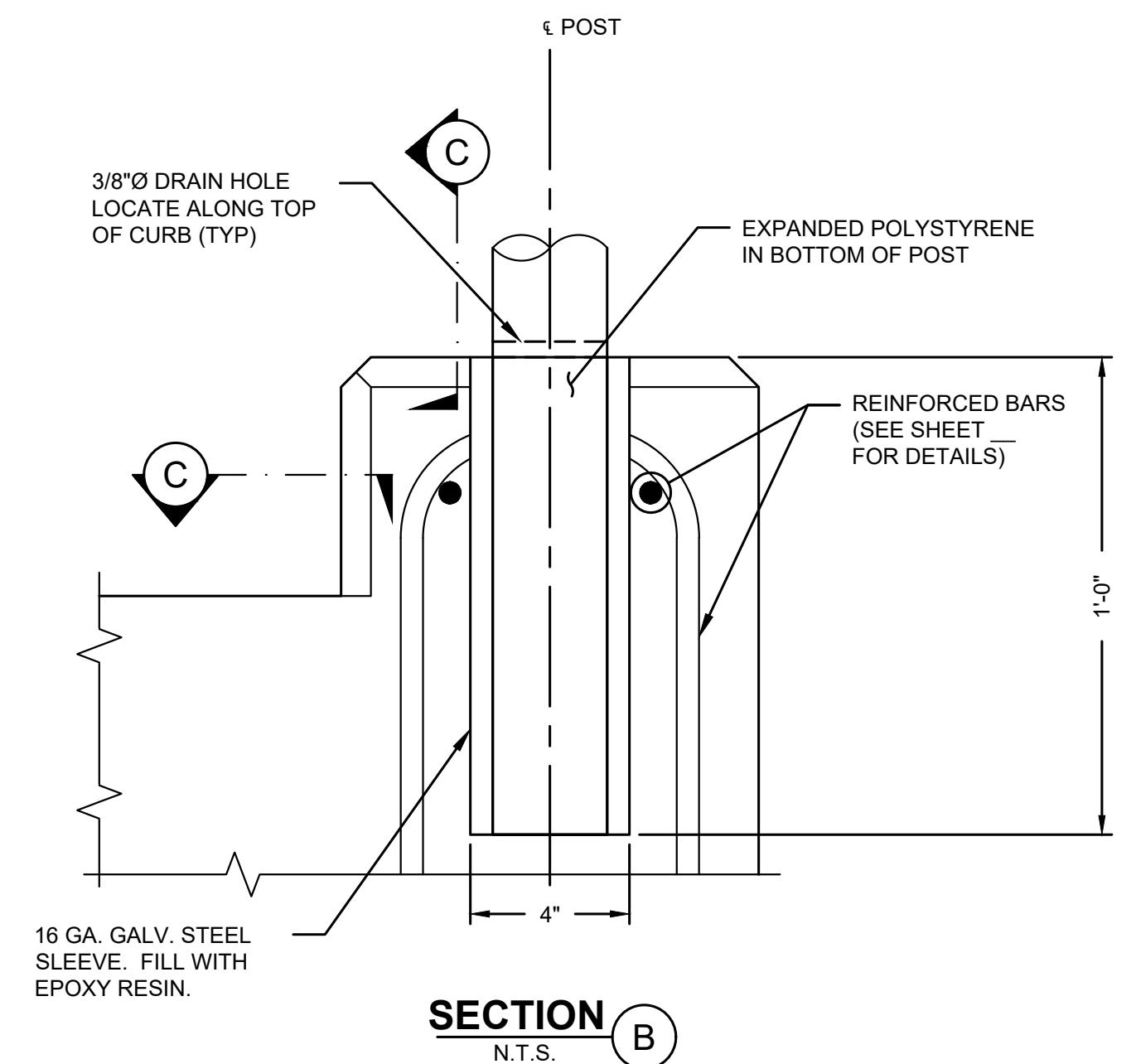
SECTION A  
N.T.S.  
OPTION #2

\* LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL BE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING.

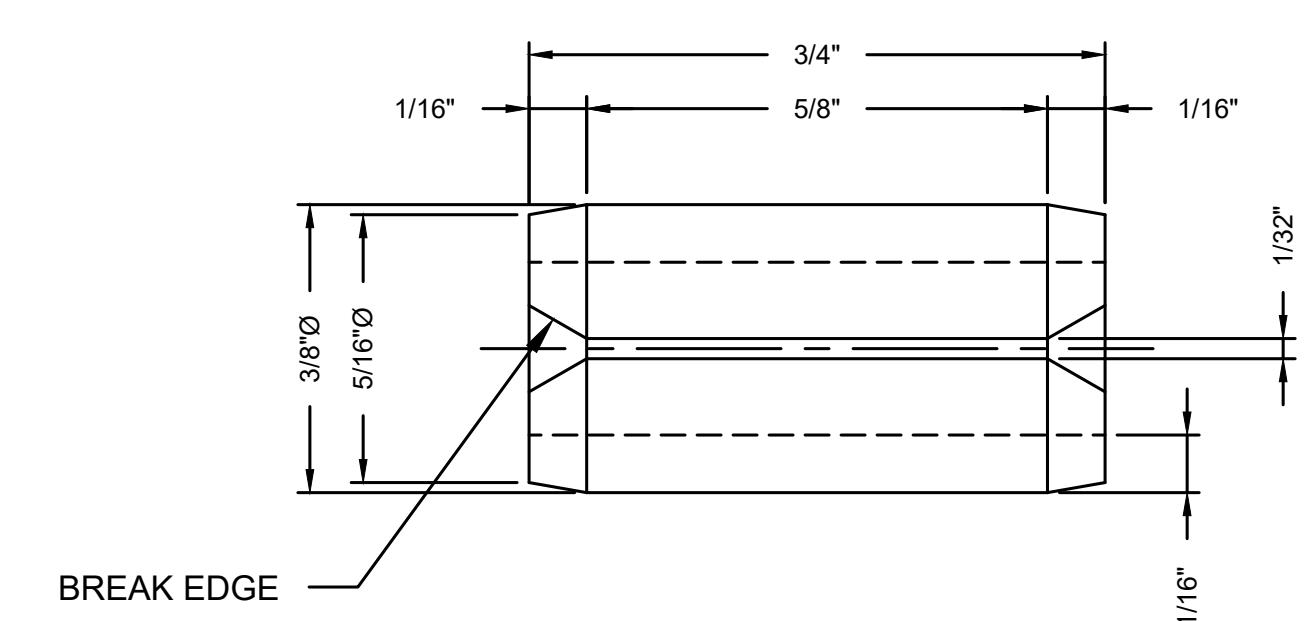


PEDESTRIAN RAIL SCHEDULE					
LINE	STATION START	STATION END	LEFT	RIGHT	LENGTH

MATERIAL	PART	MATERIAL SPECIFICATION
	PIPES	ASTM B 221-6005-T5 SCHEDULE 40 (STD. PIPE) ASTM B 241 OR B 429 6061-T6
ALUMINUM	BAR	ASTM B 221-6005-T5
STEEL	DRIVE PINS	ASTM A 276 TYPE 302 STAINLESS STEEL



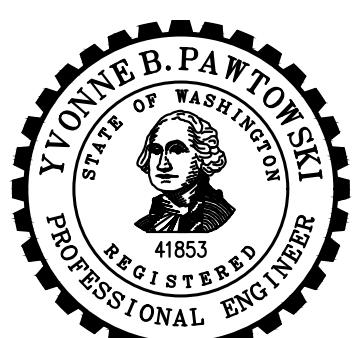
SECTION B  
N.T.S.



DETAIL  
N.T.S.

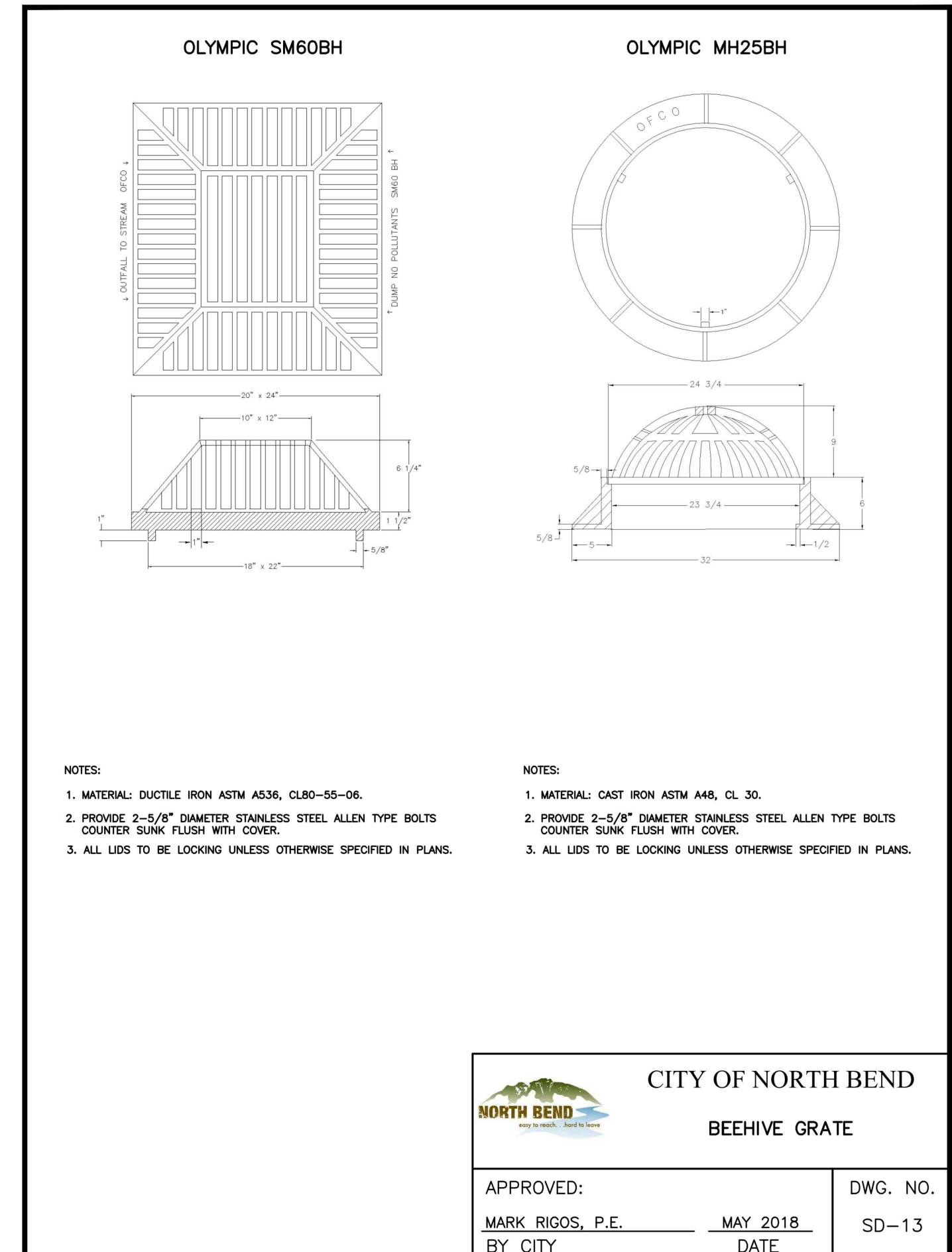
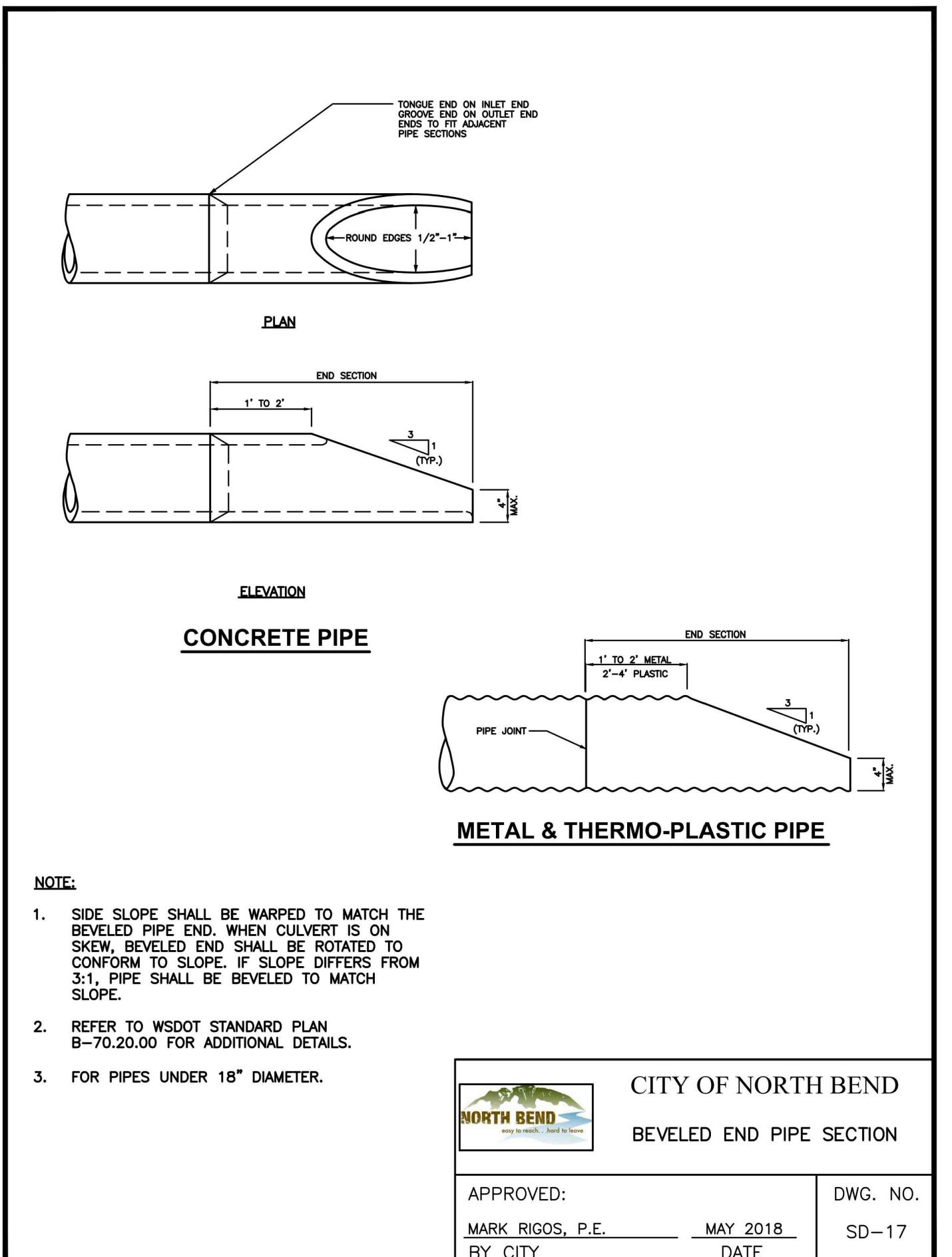
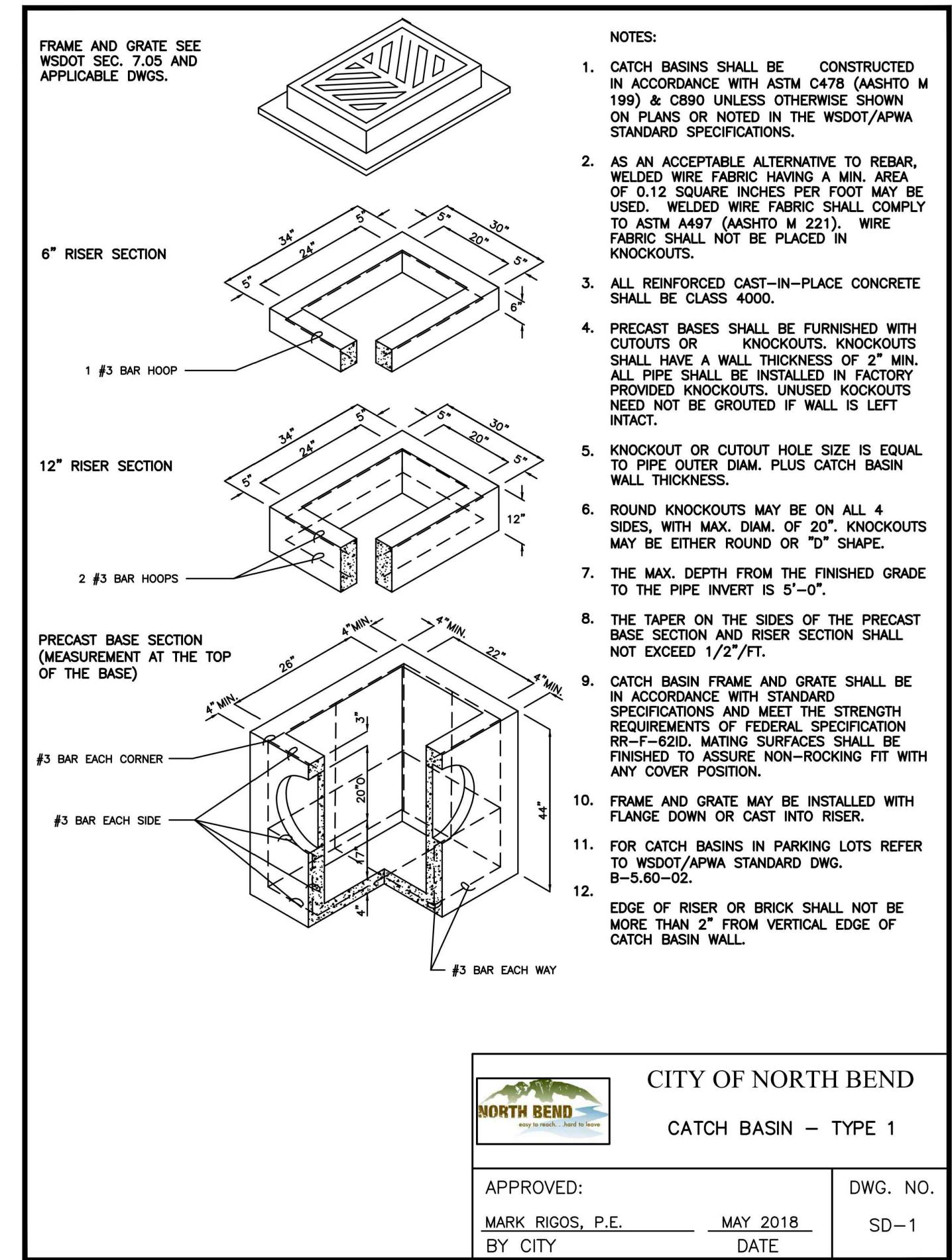
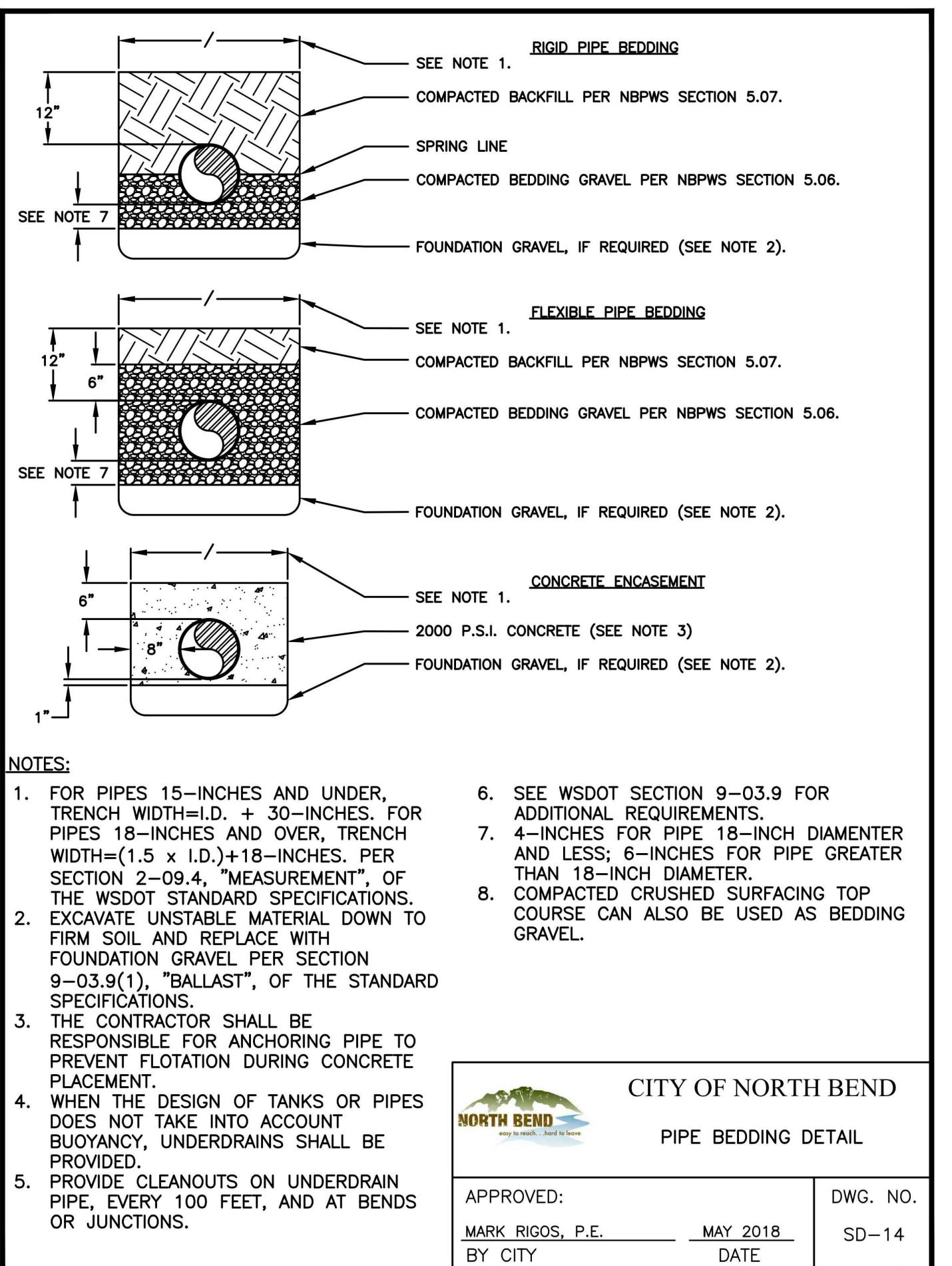
SLOTTED TYPE SPRING PIN (ANSI B18.8.2)  
SCALE 1:32

#### PEDESTRIAN RAILING DETAILS

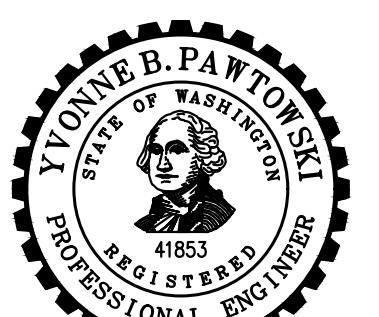


**CITY OF  
NORTH BEND**

**SR 202 SHARED-USE  
TRAIL EXTENSION**



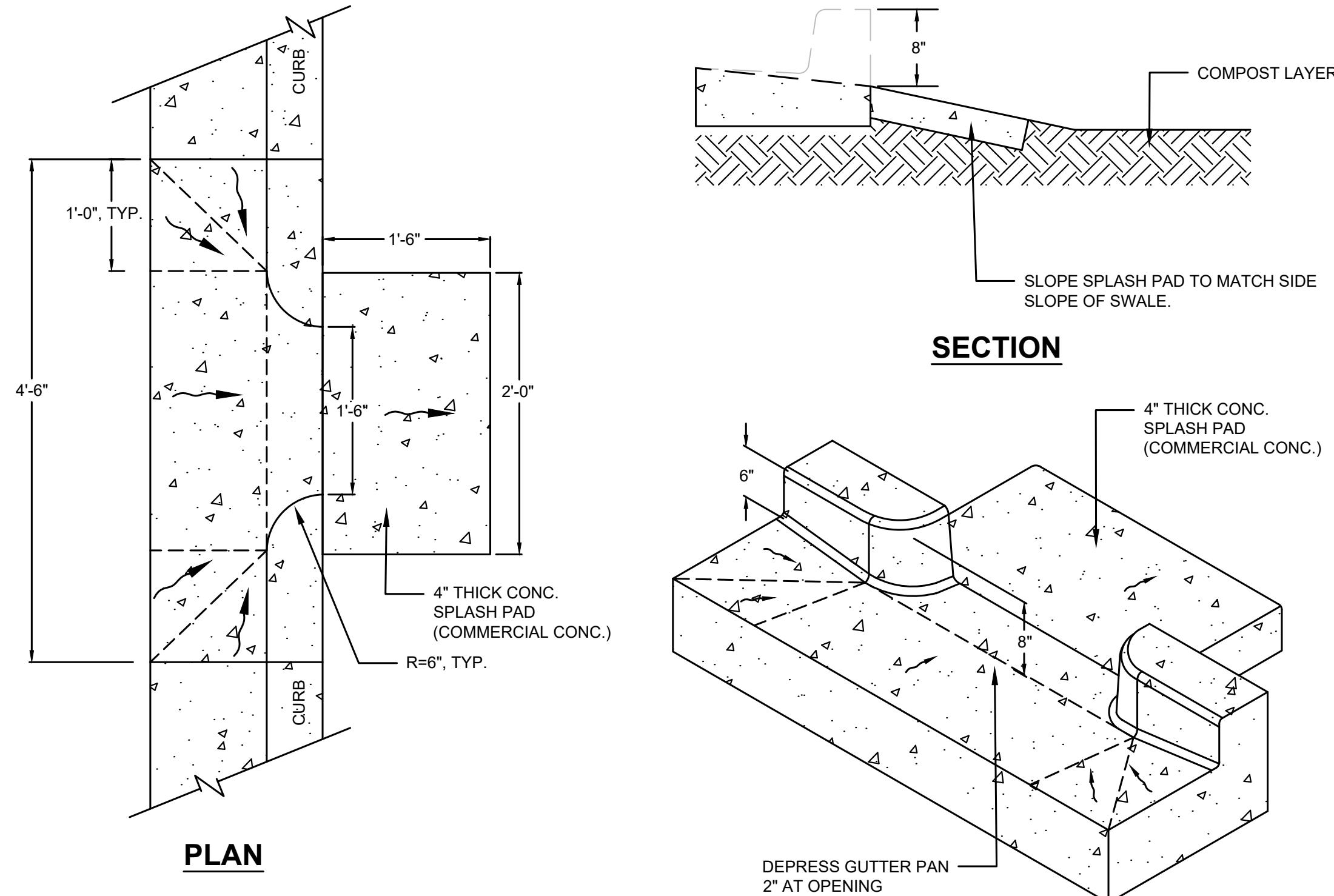
No.	DATE	REVISION
ISSUED FOR:	PRELIMINARY DESIGN SUBMITTAL	
ISSUE DATE:	DEC 2024	
APPROVED BY:	R.W.K.	
CHECKED BY:	K.W.B.	
DRAWN BY:	S.E.M.	
G&O #:	24421.00	
FILE:	STORM DET.DWG	
0	1"	2"
TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		



**CITY OF  
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TRAIL EXTENSION**

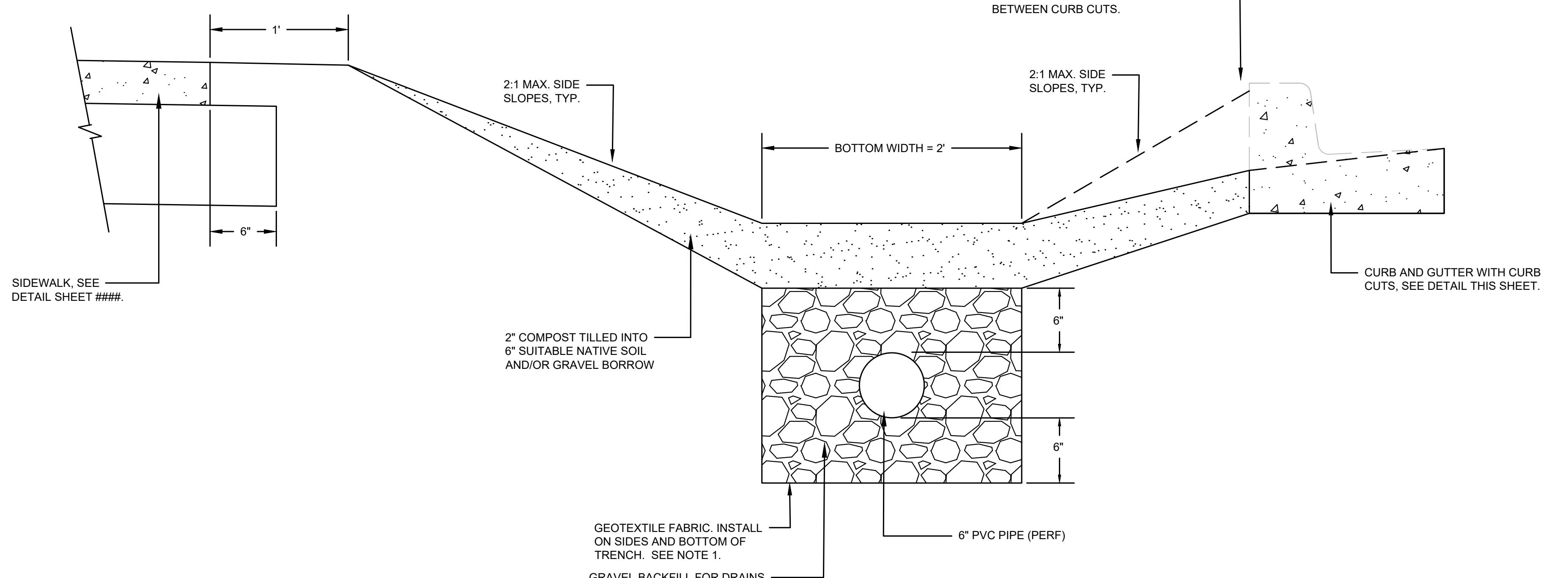
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DRAWN BY:	S.E.M.	
G&O #:	24421.00	
FILE:	STORM DET.DWG	
0	1"	2"
TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		

**STORM DRAINAGE  
DETAILS**



**CURB CUT DETAIL**

NTS



**NOTES:**

1. GEOTEXTILE FOR UNDERGROUND DRAINAGE, MODERATE SURVIVABILITY CLASS A PER SECTION 9-33.1 OF THE WSDOT STANDARD SPECIFICATIONS.

**BIOFILTRATION SWALE**

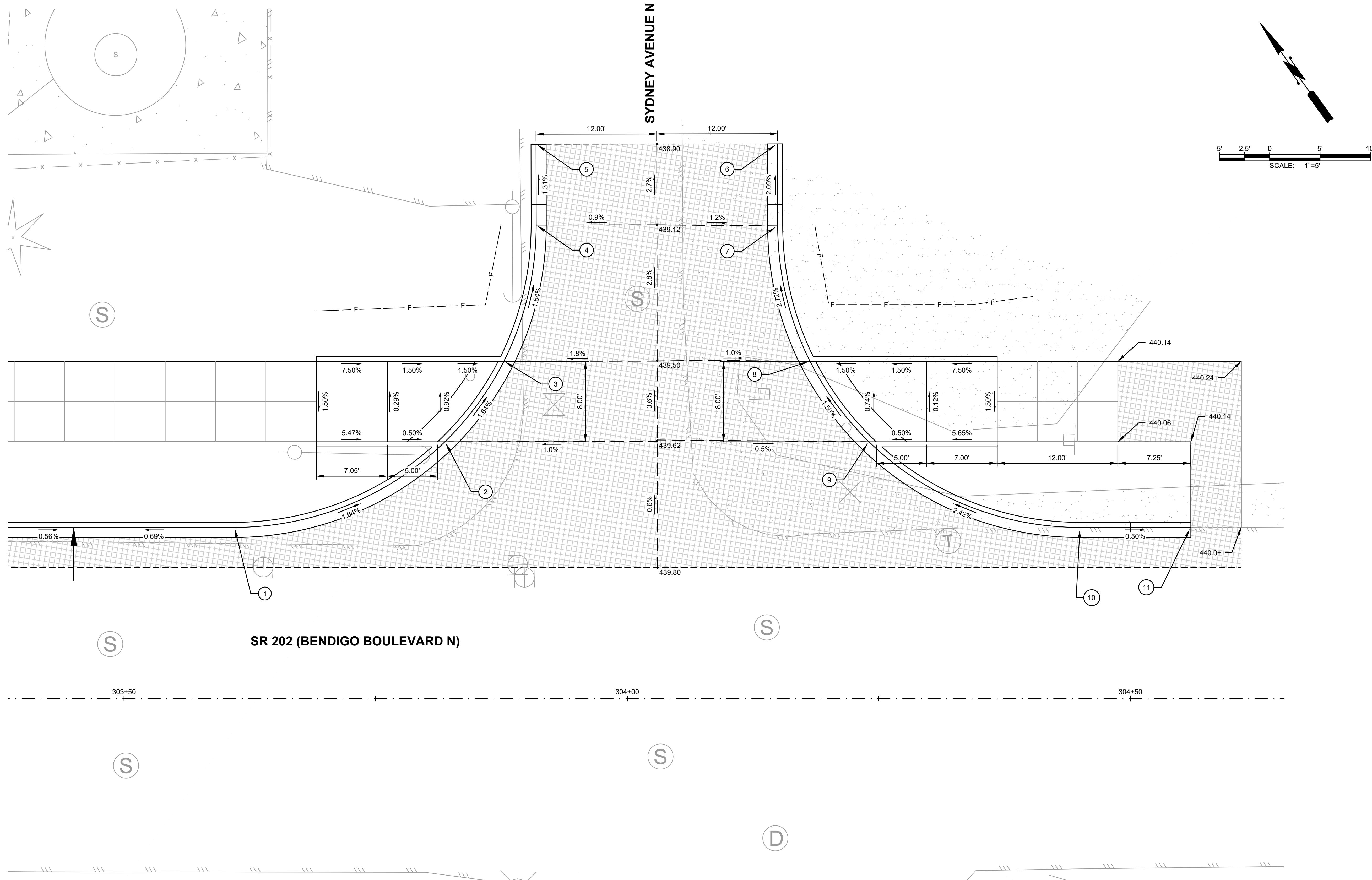
NTS



SYDNEY AVENUE N INTERSECTION - NW CORNER CURB TABLE								
CURB POINT:	POINT DESCRIPTION:	STATION:	OFFSET:	FL. ELEVATION:	CURB HEIGHT:	CURVE DESCRIPTION:	CENTER	
1	PC / HI POINT	303+60.95	17.00' LT	439.79	6.0"	L=47.17' R=30.00' $\Delta=90^\circ 05' 04''$	303+60.95 47.00 LT	
2	FLOWLINE / LANDING	303+81.87	25.50' LT	439.41	6.0" / 0.0"			
3	FLOWLINE / LANDING	303+87.74	33.50' LT	439.25	0.0" / 6.0"			
4	PT	303+90.95	47.04' LT	439.02	6.0"			
5	END CURB	303+90.94	55.07' LT	438.91	0.0"			

SYDNEY AVENUE N INTERSECTION - NE CORNER CURB TABLE								
CURB POINT:	POINT DESCRIPTION:	STATION:	OFFSET:	FL. ELEVATION:	CURB HEIGHT:	CURVE DESCRIPTION:	CENTER:	
6	END CURB	304+14.94	55.10' LT	438.81	0.0"			
7	PC	304+14.95	46.96' LT	438.98	6.0"	L=47.08' R=30.00' $\Delta=89^\circ 54' 56''$	304+44.95 47.00 LT	
8	FLOWLINE / LANDING	304+18.16	33.50' LT	439.36	6.0" / 0.0"			
9	FLOWLINE / LANDING	304+24.03	25.50' LT	439.51	0.0" / 6.0"			
10	PT	304+44.95	17.00' LT	440.07	6.0"			
11	END CURB	304+56.00	17.00' LT	440.01	0.0"			

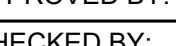
The logo for Gray & Osborne, Inc. features a stylized red 'G' with a smaller 'O' inside it, followed by the company name 'Gray & Osborne, Inc.' in a serif font, and 'CONSULTING ENGINEERS' in a smaller, bold, sans-serif font below it.



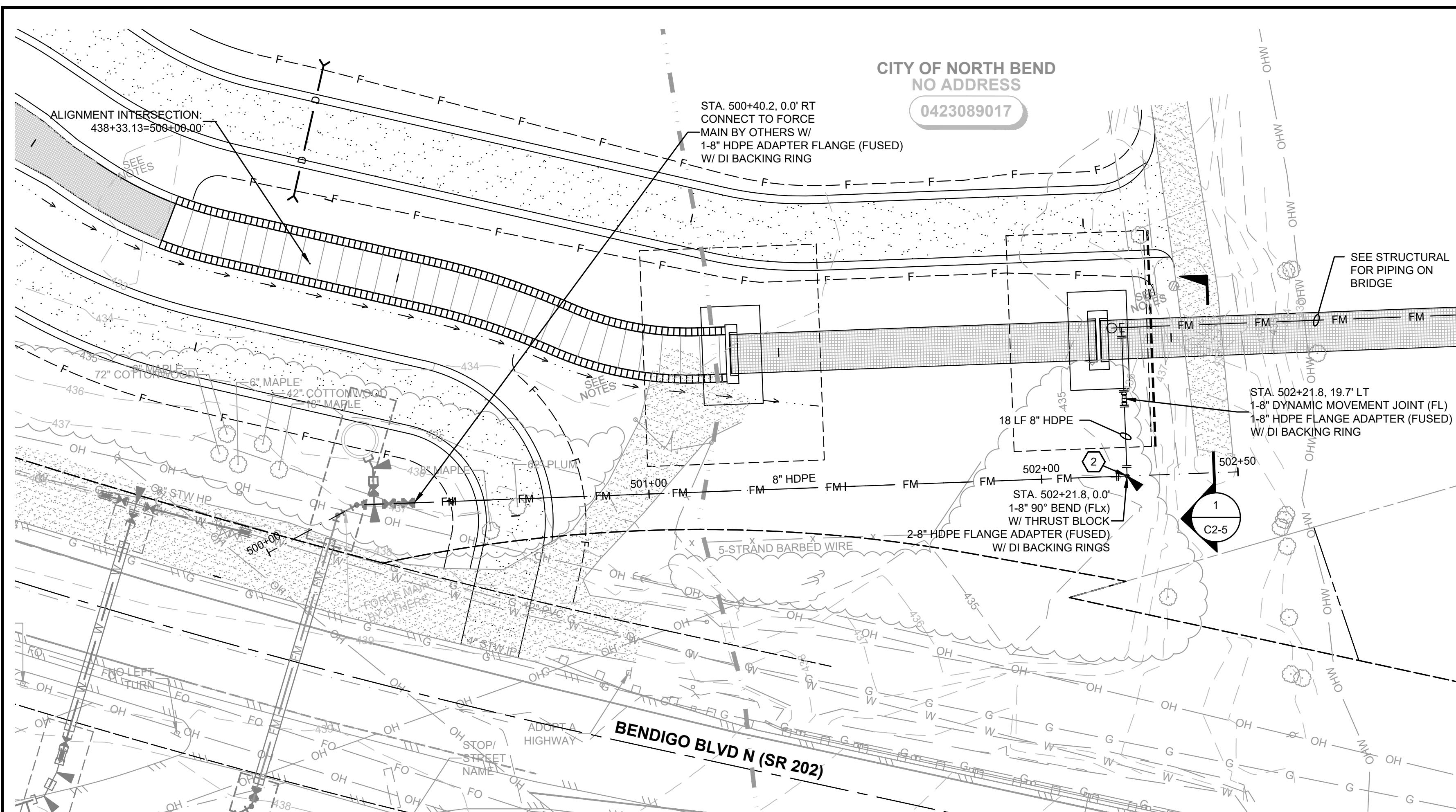
KEVIN W. BROWN  
STATE OF WASHINGTON  
39319  
REGISTERED  
PROFESSIONAL ENGINEER

# **CITY OF NORTH BEND**

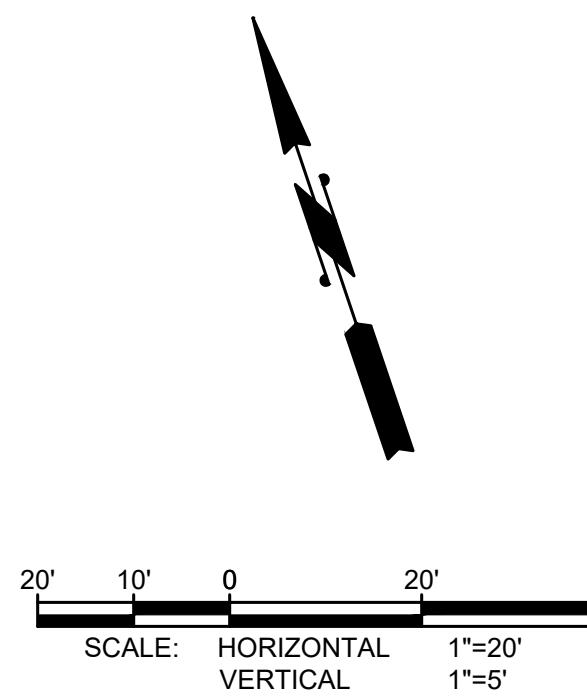
## **SR 202 SHARED-USE TRAIL EXTENSION**

No.	DATE	REVISION
ISSUED FOR:		
PRELIMINARY DESIGN SUBMITTAL		
ISSUE DATE:		DEC 2024
APPROVED BY:		R.W.K.
CHECKED BY:		K.W.B.
DRAWN BY:		S.E.M.
G&O #:		24421.00
FILE:		CURB RETURNS.DWG
 0                    1"                    2"		
TWO INCHES AT FULL SCALE. IF NOT SCALE ACCORDINGLY		

## **CURB RETURN TABLES**



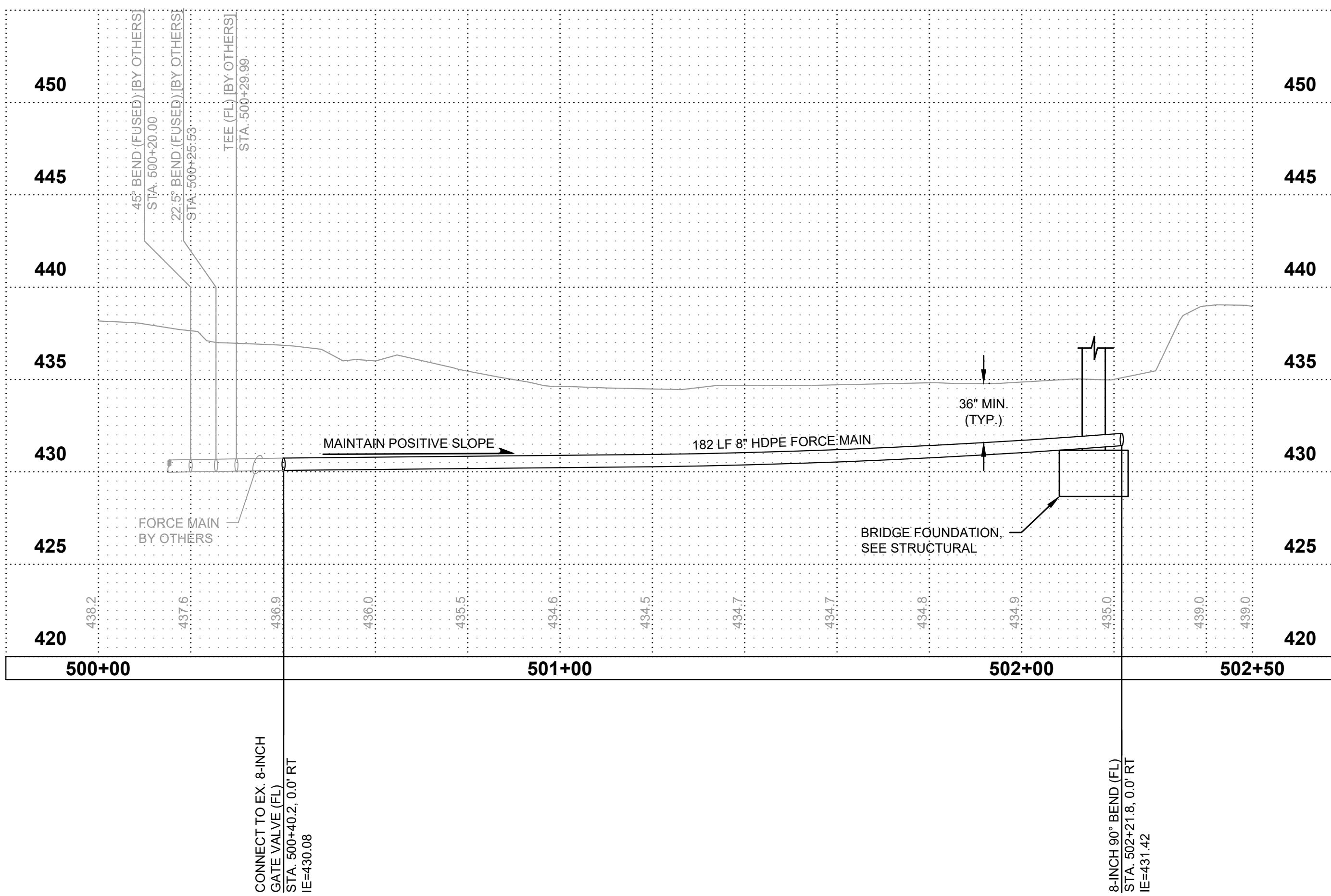
CONTINUATION - SEE SHEET C2-2



**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
3710 168TH STREET NORTHEAST,  
BUILDING B, SUITE 210  
ARLINGTON, WA 98223  
(360) 454-5490



**CITY OF  
NORTH BEND**  
SR 202 SHARED-USE  
TRAIL EXTENSION

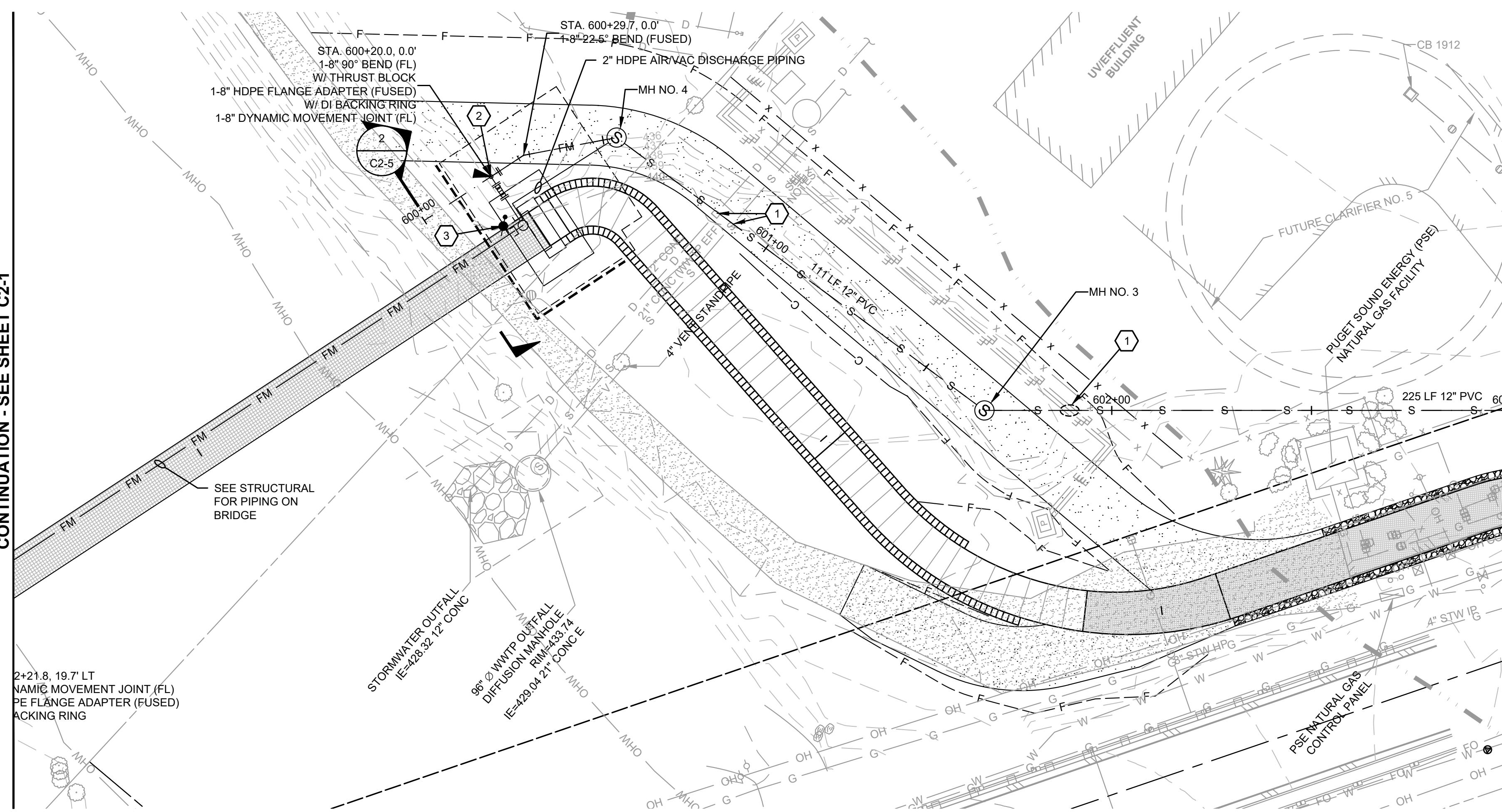


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G&O #:	S.E.M.	
FILE:	24421.00	
PLANPROF-SEWER.DWG		
0	1"	2"
TWO INCHES AT FULL SCALE, IF NOT, SCALE ACCORDINGLY		

**PLAN & PROFILE -  
SEWER**

**SHEET: C2-1 OF: 46**

CONTINUATION - SEE SHEET C2-1



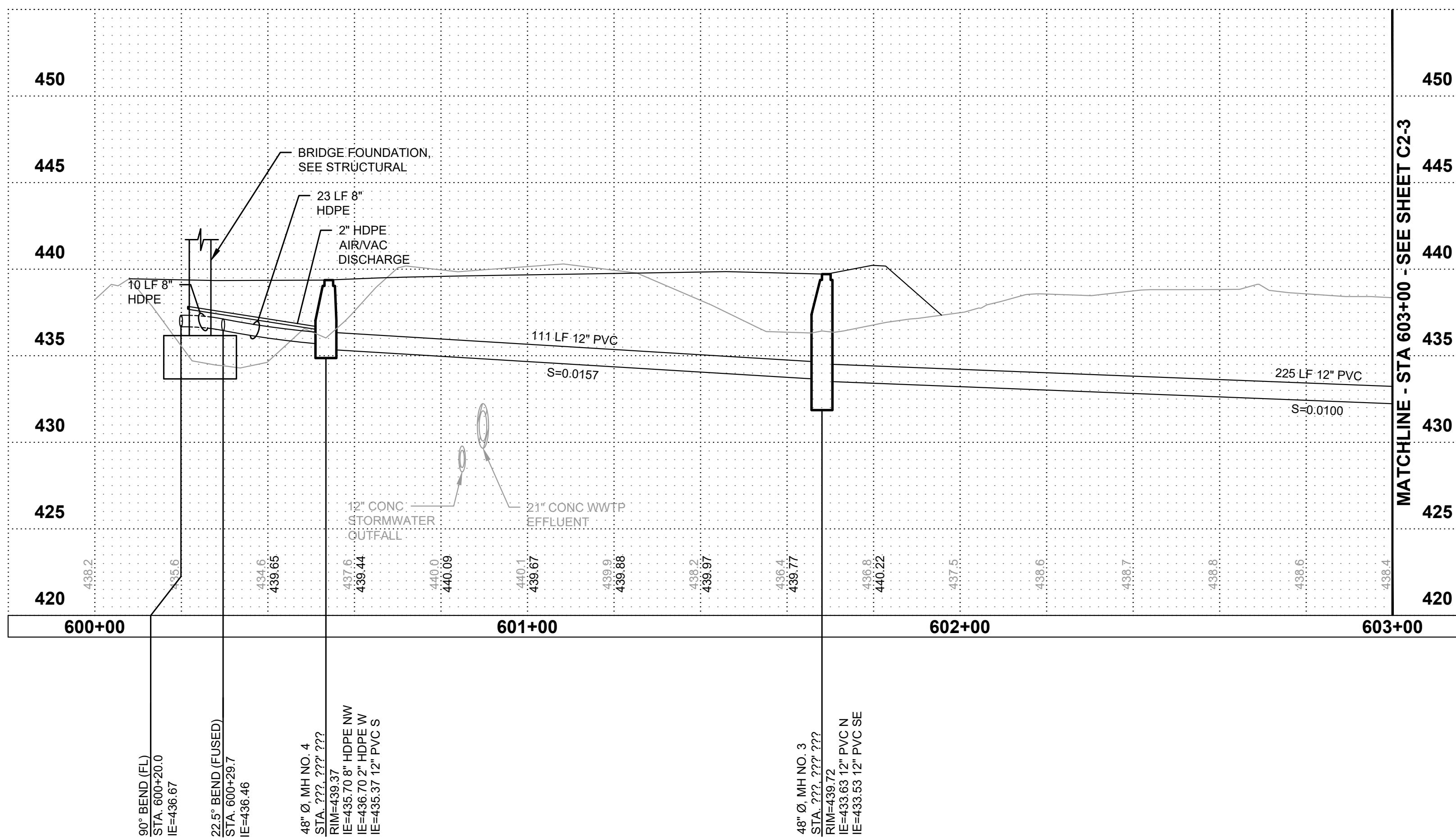
603  
WATSON GENEALOGY

## **GENERAL SEWER NOTES:**

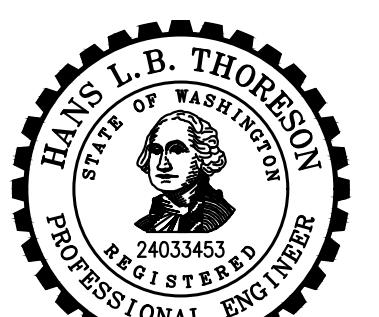
1. ALL FORCE MAIN PIPING, FITTINGS, AND VALVES SHALL BE RESTRAINED JOINT.
2. ALL HDPE PIPE AND FITTINGS SHALL BE JOINED BY BUTT FUSION. ELECTROFUSION COUPLINGS MAY BE USED IF THE COUPLINGS HAVE THE SAME SDR AND WORKING PRESSURE RATING OF THE PIPE. ALL CONNECTIONS OF HDPE PIPE TO FLANGED DUCTILE IRON VALVES/FITTINGS, WHERE ALLOWED, SHALL BE MADE WITH A BUTT WELDED HDPE FLANGE ADAPTER AND A DUCTILE IRON BACKING RING.
3. ALL DUCTILE IRON PIPE AND FITTINGS FOR CONVEYANCE OF SANITARY SEWER SHALL BE PROTECTO 401™ EPOXY LINED, OR APPROVED EQUAL.
4. GRAVITY SEWER TRENCH PER CITY OF NORTH BEND STANDARD DETAIL S-14, SHEET D-1.
5. FORCE MAIN TRENCH PER DETAIL 2, SHEET D-2.
6. MAINTAIN POSITIVE SLOPE ON FORCE MAIN AS REQUIRED TO ALLOW FOR AIR EGRESS TO AIR/VAC AND/OR DISCHARGE LOCATION(S) AS SHOWN ON THE PLANS.
7. SEE STRUCTURAL FOR PIPING ON BRIDGE.

## CONSTRUCTION NOTES:

1. CAUTION: POTENTIAL UTILITY CONFLICT. POTHOLE TO DETERMINE EXACT LOCATION AND DEPTH OF THE EXISTING UTILITIES PRIOR TO CONSTRUCTION. ANY DISCREPANCIES FOUND IN THE FIELD FROM THOSE SHOWN HEREIN SHALL BE REPORTED TO THE CONTRACTING AGENCY PRIOR TO COMMENCING THE WORK.
2. LOCATE STATION PER DETAIL 1, SHEET D-3.
3. SEWER COMBINATION AIR AND VACUUM RELEASE VALVE ASSEMBLY PER DETAIL 5, SHEET



WATSON IN THE COLD SIGHT





# **NORTH BEND**

easy to reach...hard to leave.

# CITY OF NORTH BEND

## **SR 202 SHARED-USE TRAIL EXTENSION**

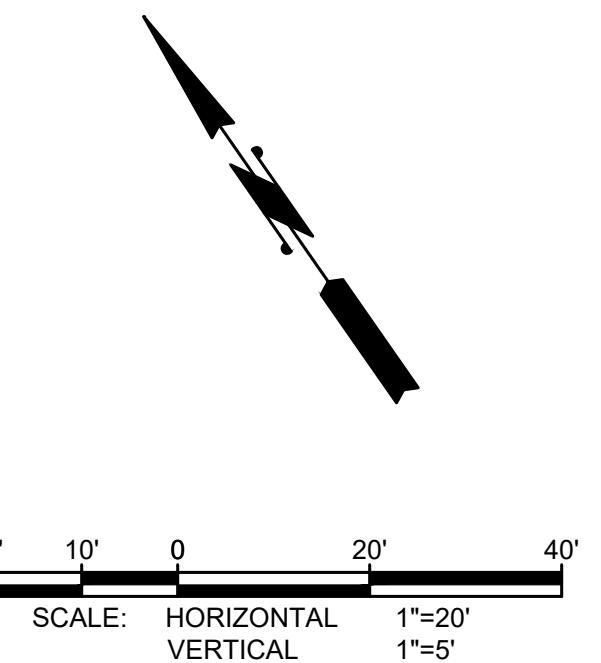
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DRAWN BY:		S.E.M.
G&O #:		24421.00
FILE: PLANPROF-SEWER.DWG		
		

## PLAN & PROFILE - SEWER



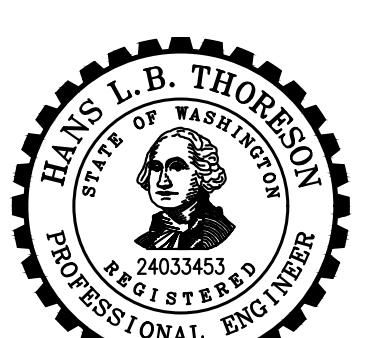
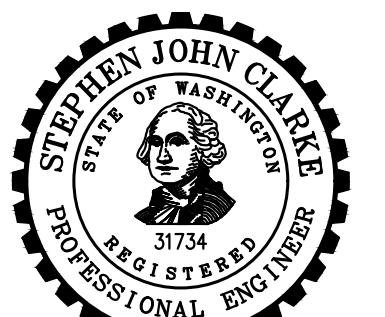
# Gray & Osborne, Inc.

3710 168TH STREET NORTHEAST,  
BUILDING B, SUITE 210  
ARLINGTON, WA 98223  
(360) 454-5490



## **GENERAL SEWER NOTES:**

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3. ALL DUCTILE IRON PIPE AND FITTINGS FOR CONVEYANCE OF SANITARY SEWER SHALL BE PROTECTO 401™ EPOXY LINED, OR APPROVED EQUAL.
4. GRAVITY SEWER TRENCH PER CITY OF NORTH BEND STANDARD DETAIL S-14, SHEET D-1.
5. FORCE MAIN TRENCH PER DETAIL 2, SHEET D-2.
6. MAINTAIN POSITIVE SLOPE ON FORCE MAIN AS REQUIRED TO ALLOW FOR AIR EGRESS TO AIR/VAC AND/OR DISCHARGE LOCATION(S) AS SHOWN ON THE PLANS.
7. SEE STRUCTURAL FOR PIPING ON BRIDGE.



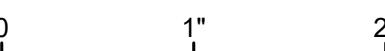
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2. LOCATE STATION PER DETAIL 1, SHEET D-3.
3. SEWER COMBINATION AIR AND VACUUM RELEASE VALVE ASSEMBLY PER DETAIL 5, SHEET

# CITY OF NORTH BEND

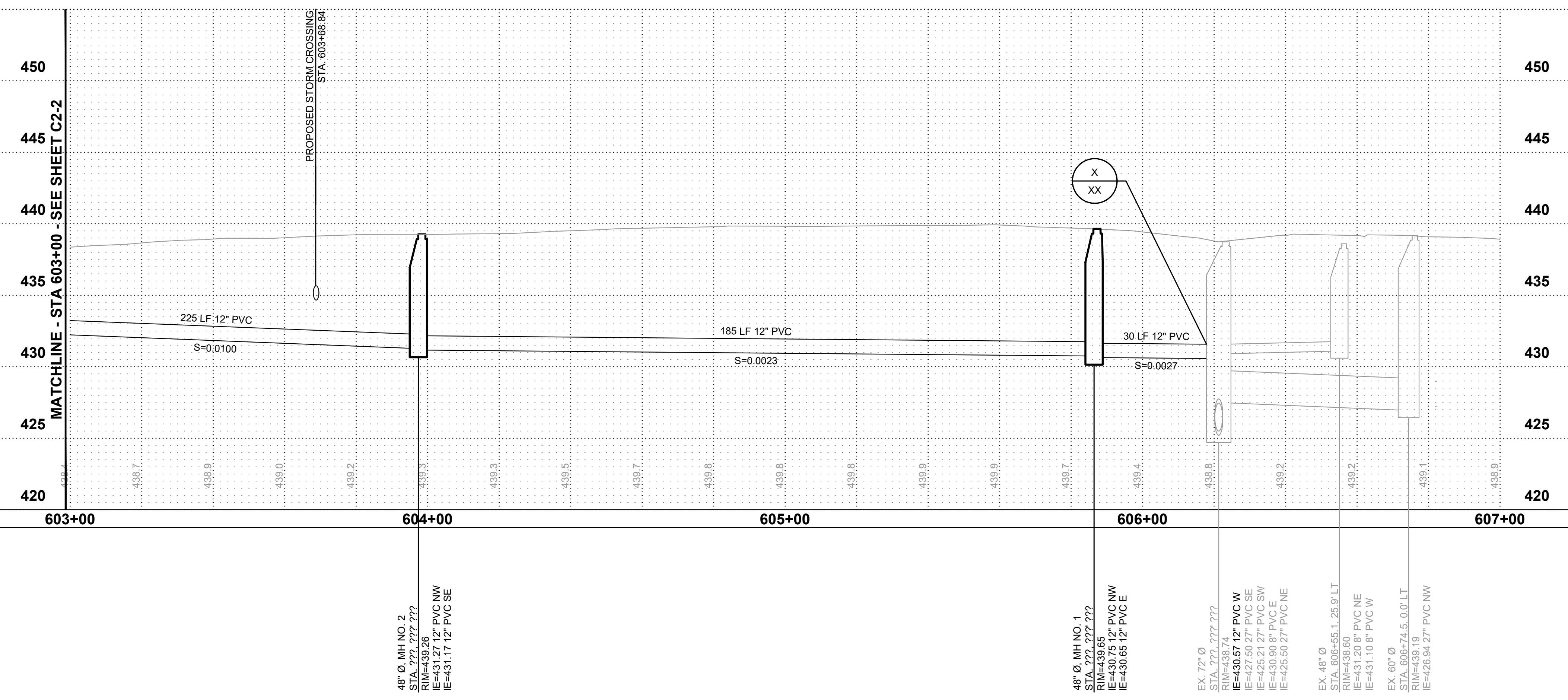
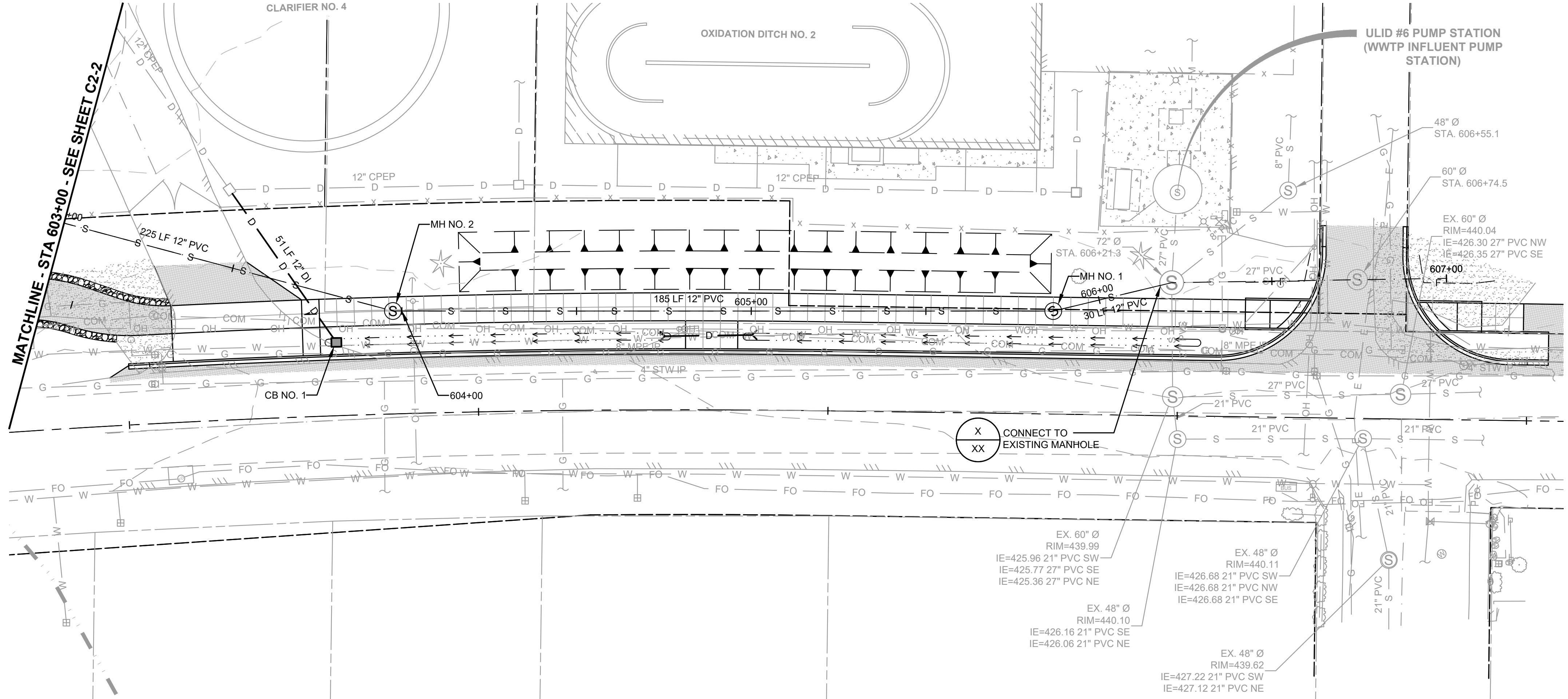
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TWO INCHES AT FULL SCALE.		
IF NOT, SCALE ACCORDINGLY		

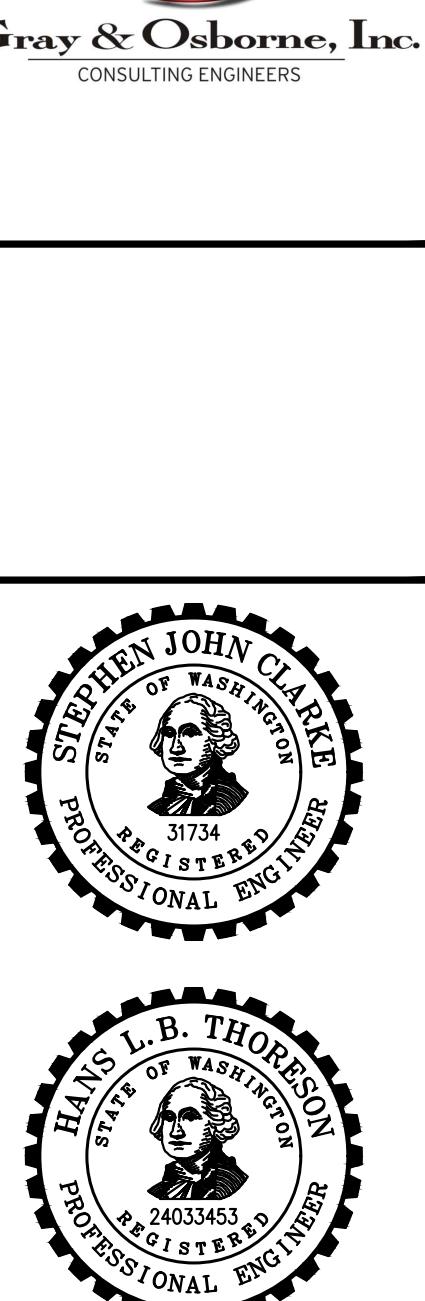
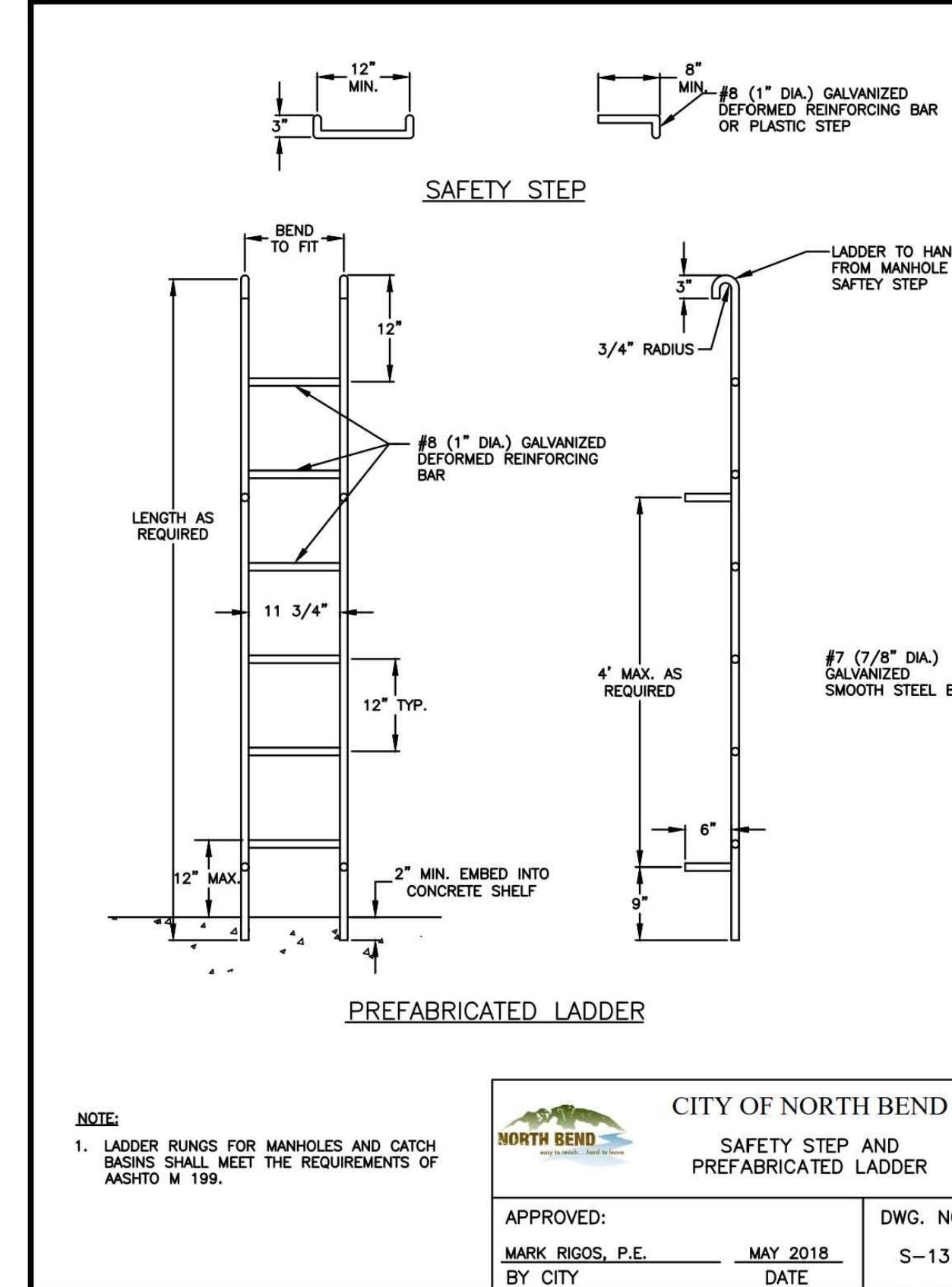
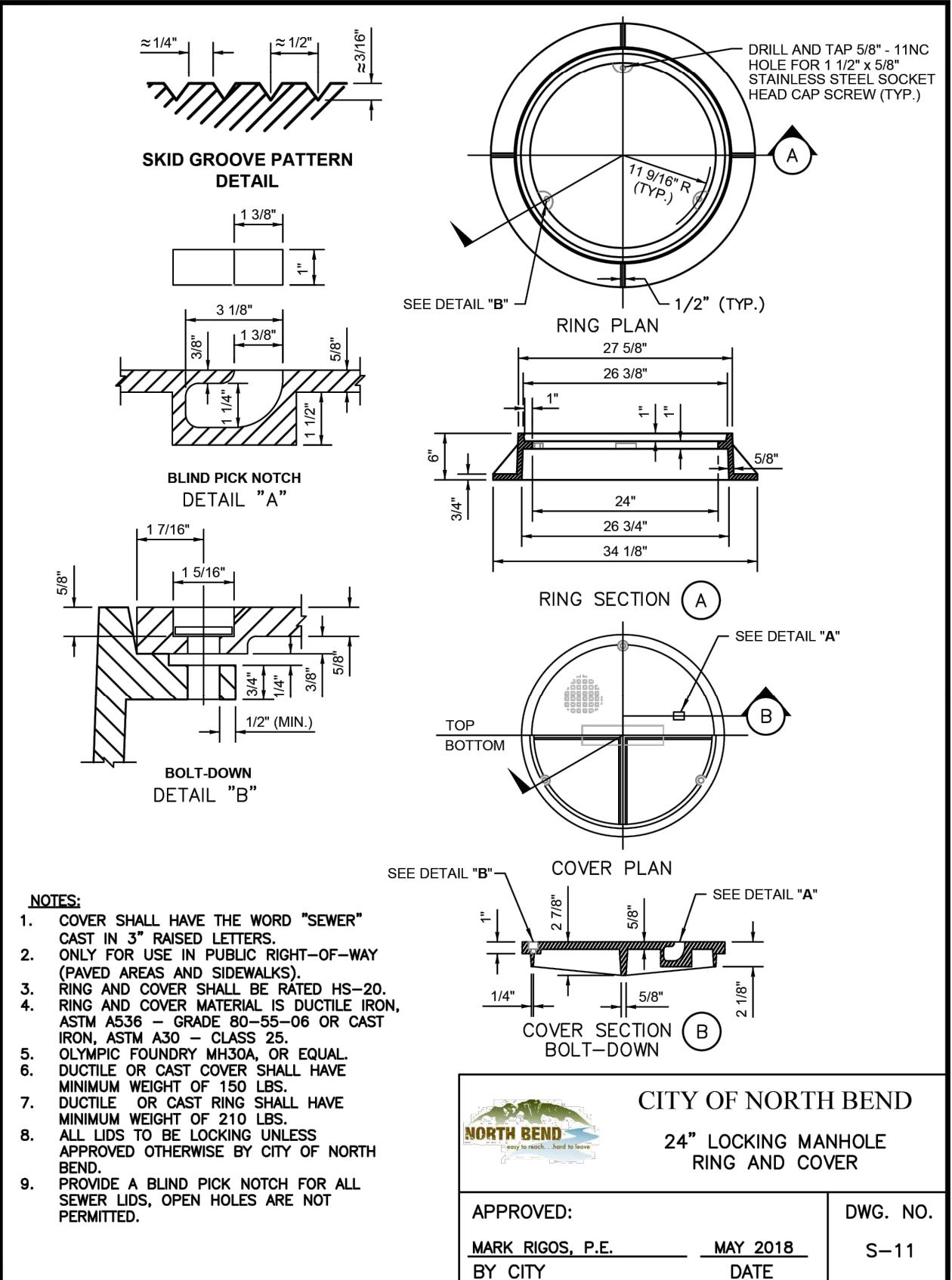
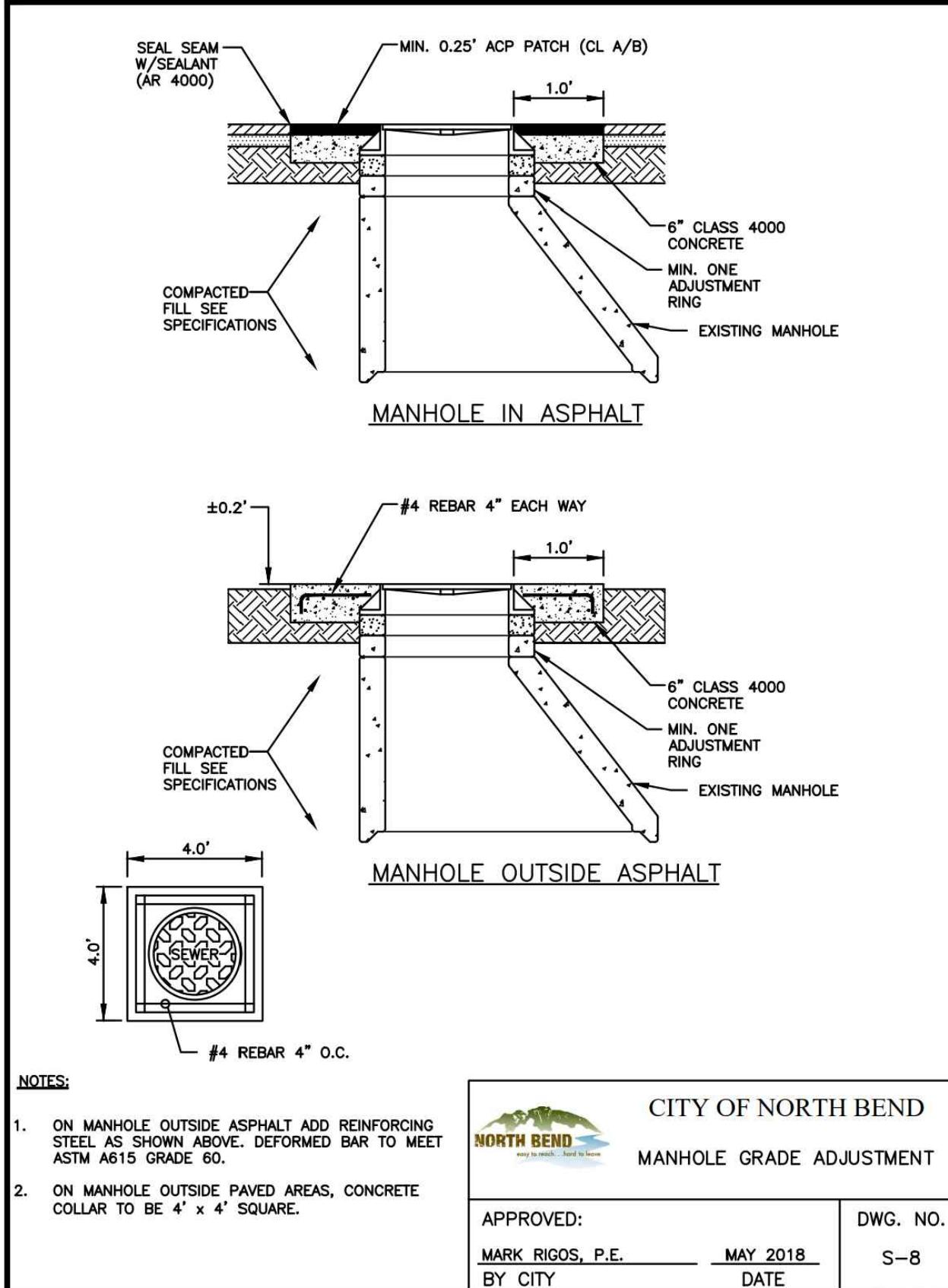
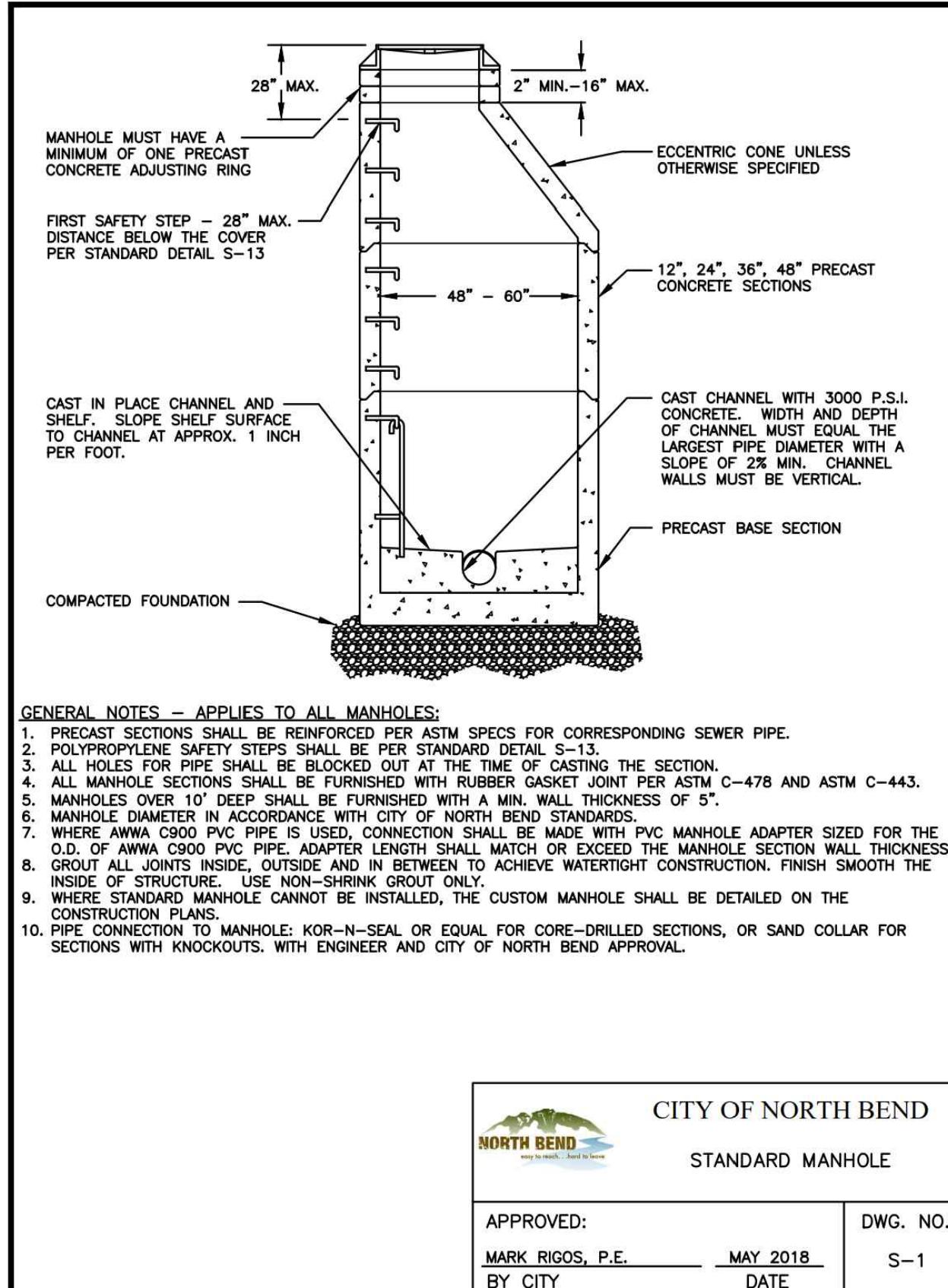
## PLAN & PROFILE - SEWER

SHEET: C2-3 QF: 46



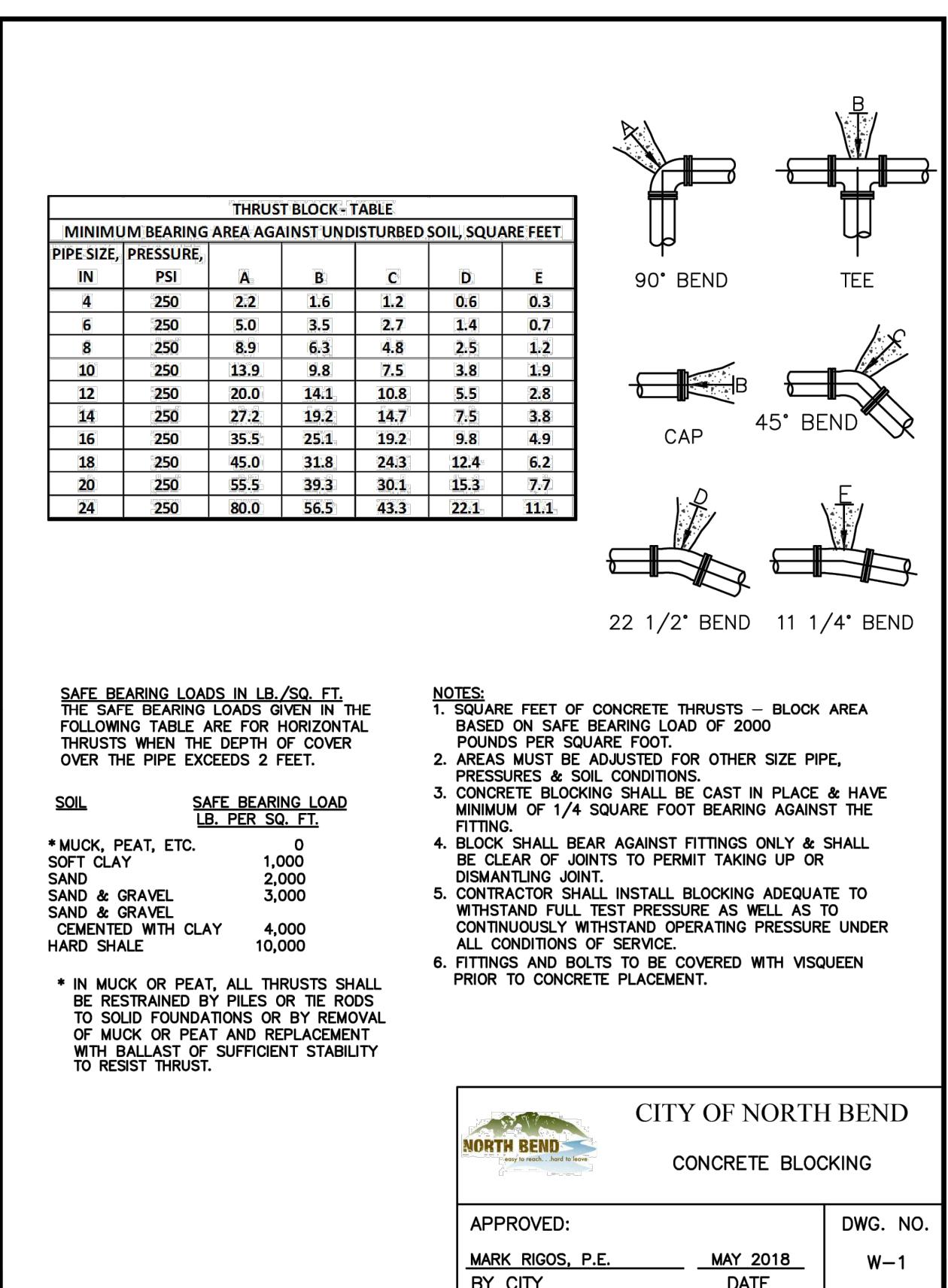
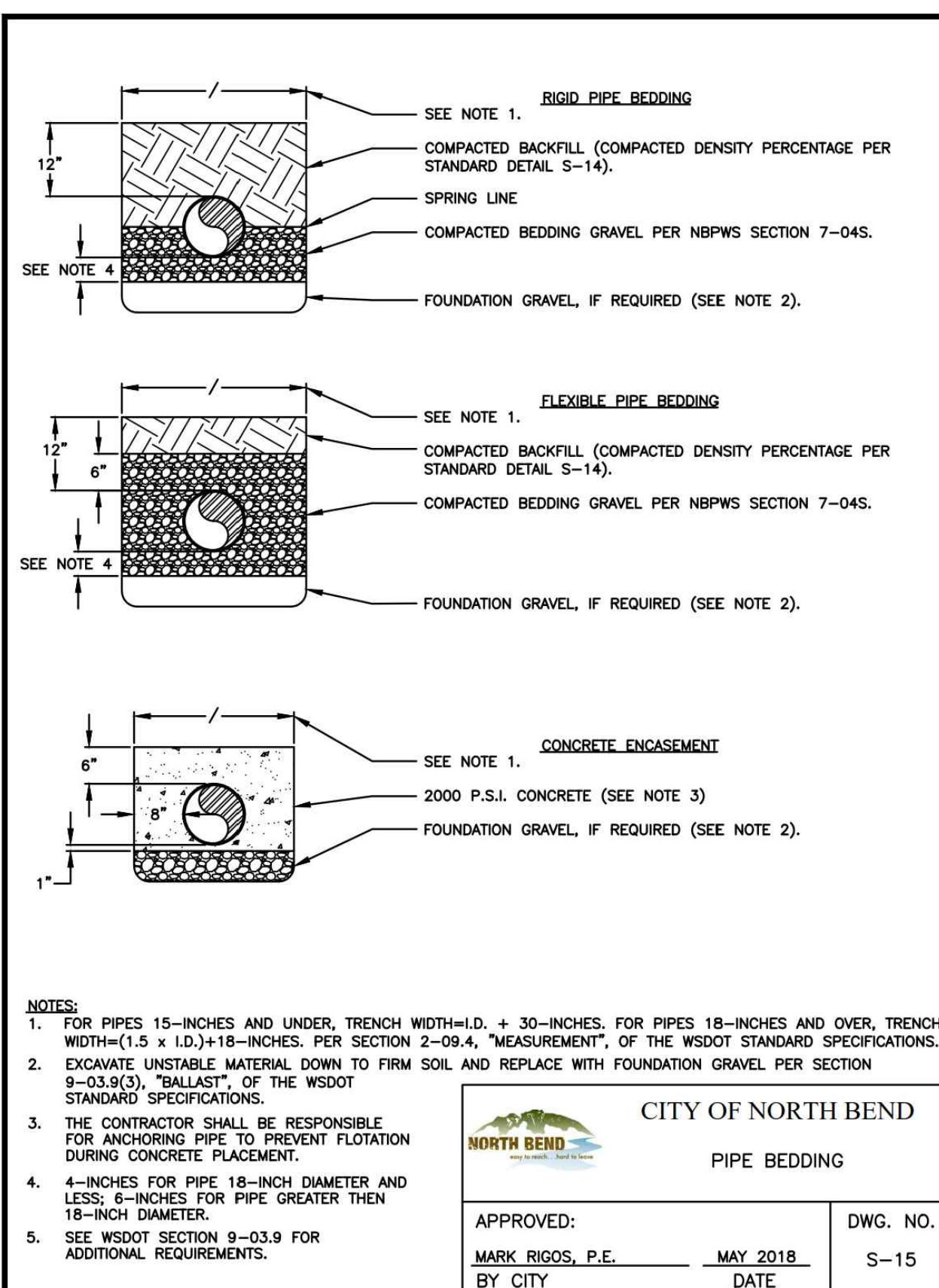
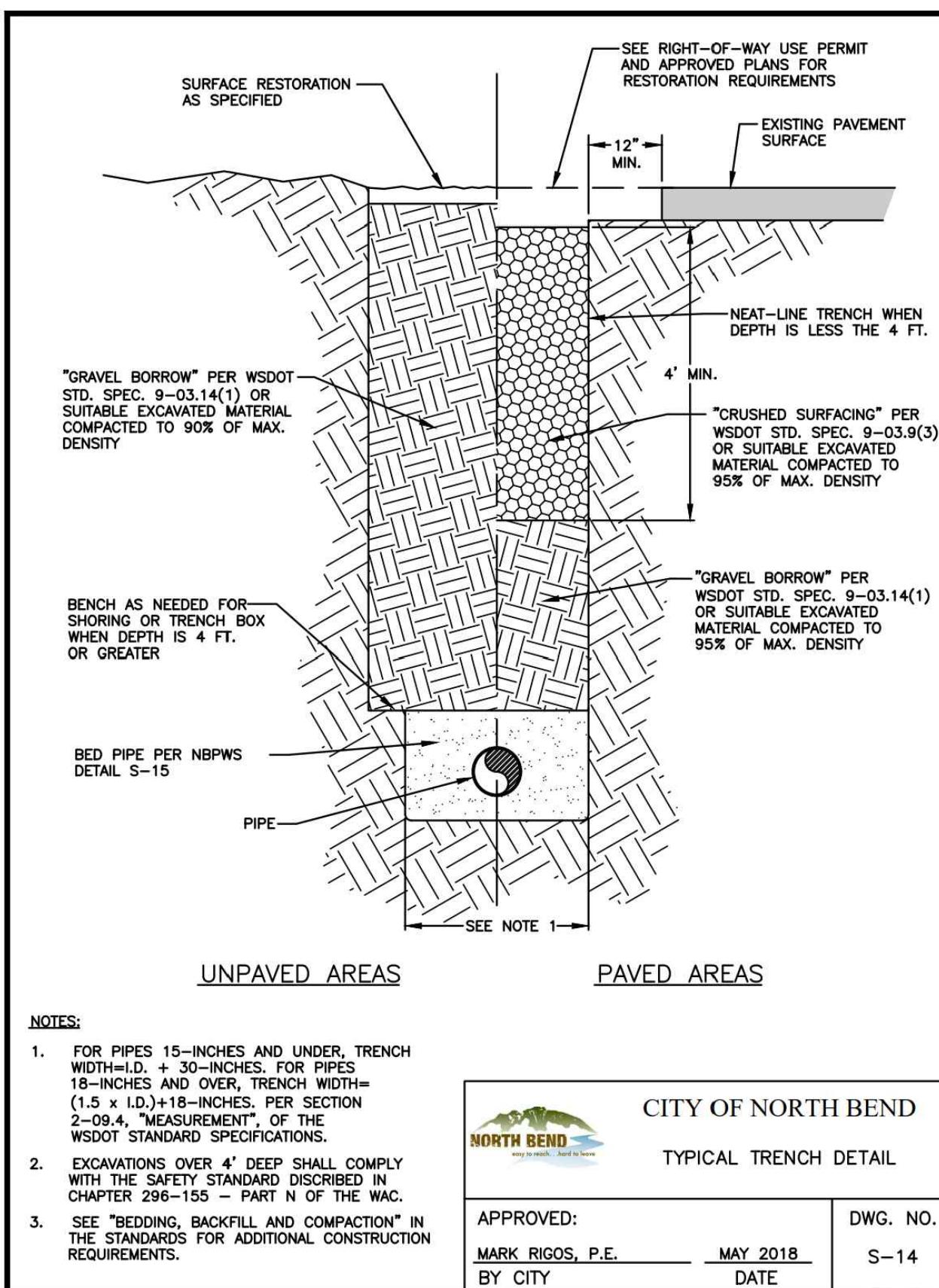


Gray & Osborne, Inc.  
CONSULTING ENGINEERS



**CITY OF  
NORTH BEND**  
easy to reach...hard to leave

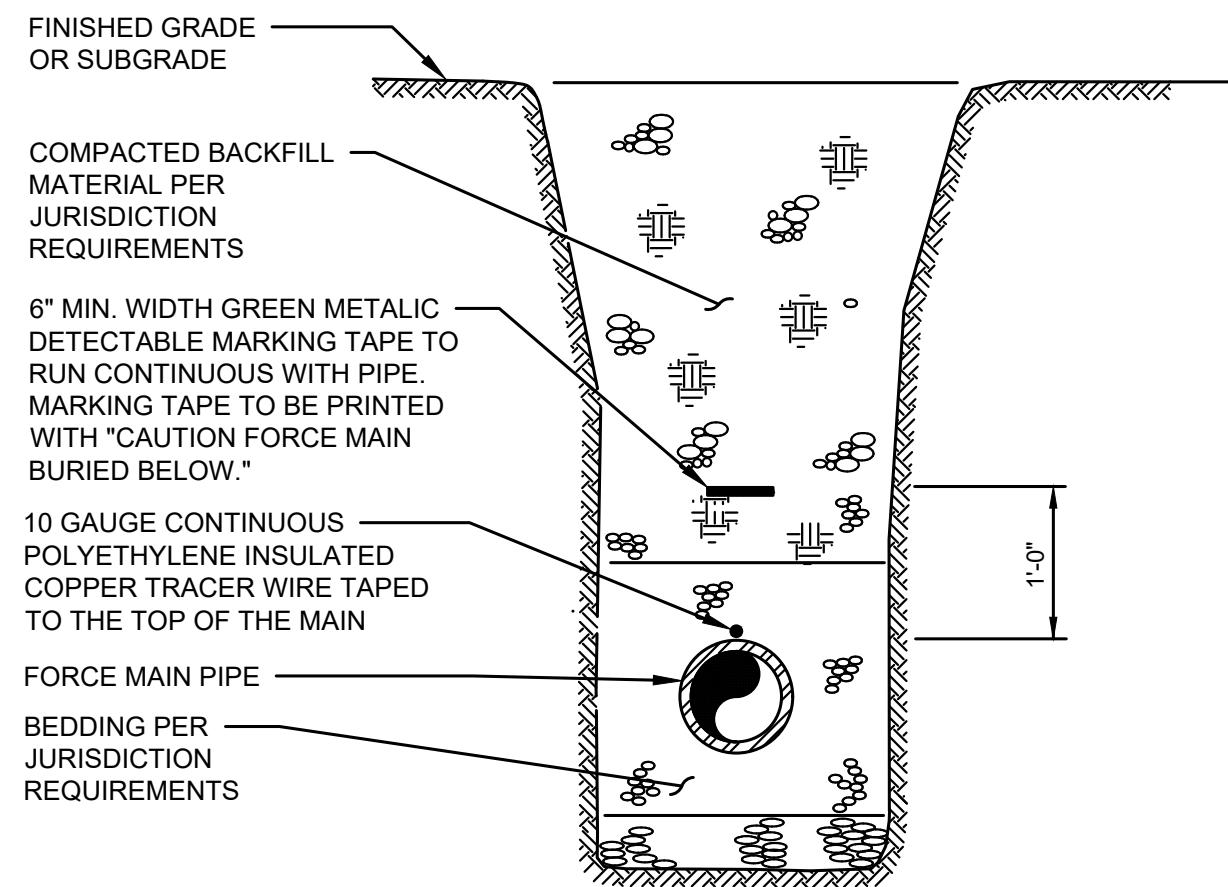
**SR 202 SHARED-USE  
TRAIL EXTENSION**



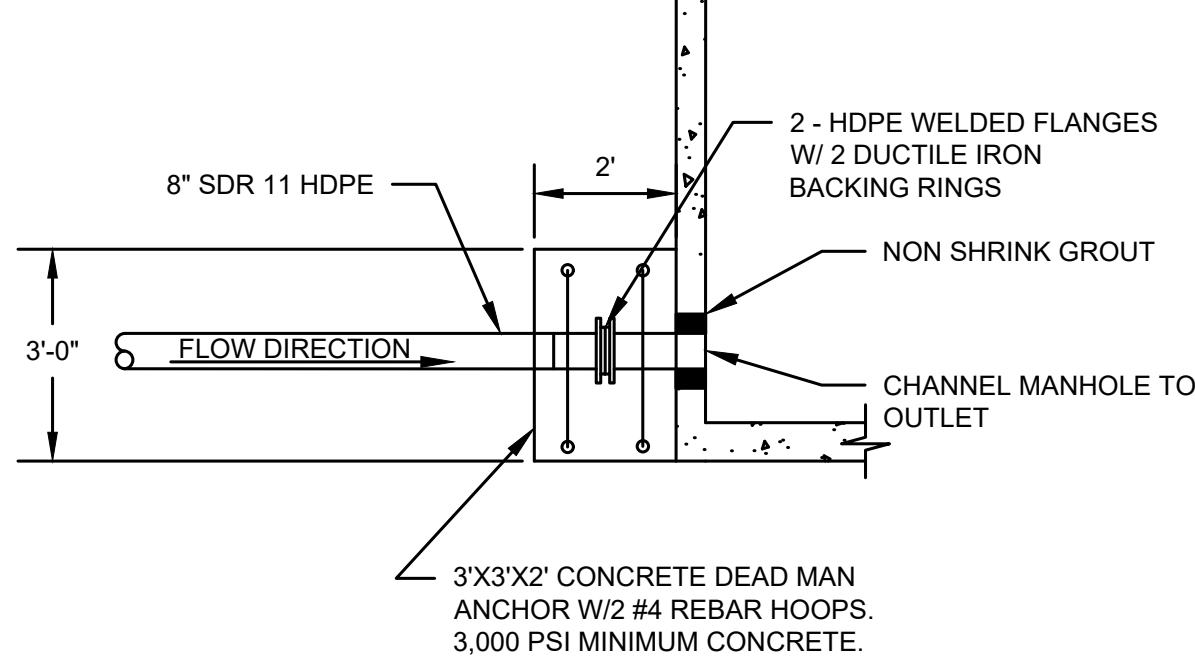
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DRAWN BY:	S.E.M.	
G&O #:	24421.00	
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TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		

**SEWER DETAILS**

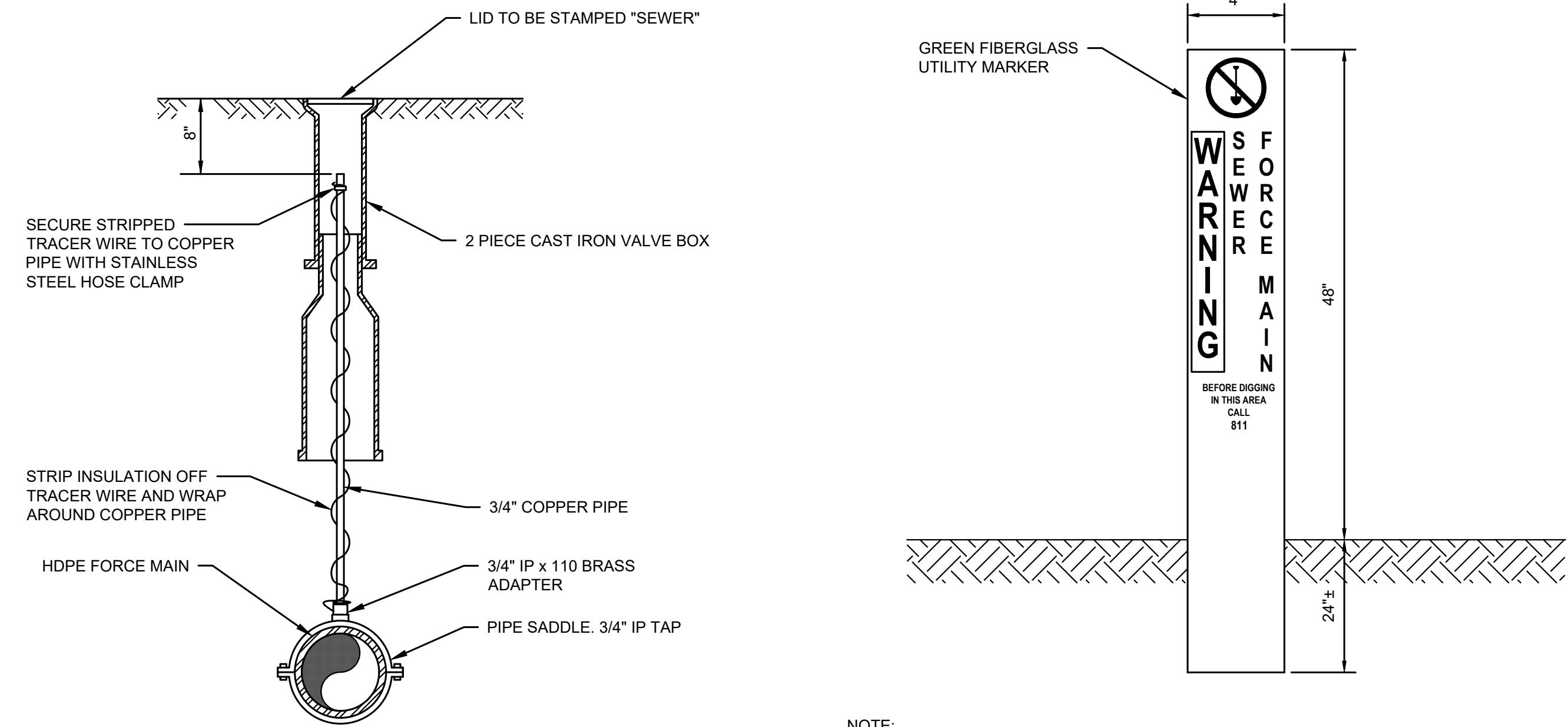
**SHEET: C2-4 OF: 46**



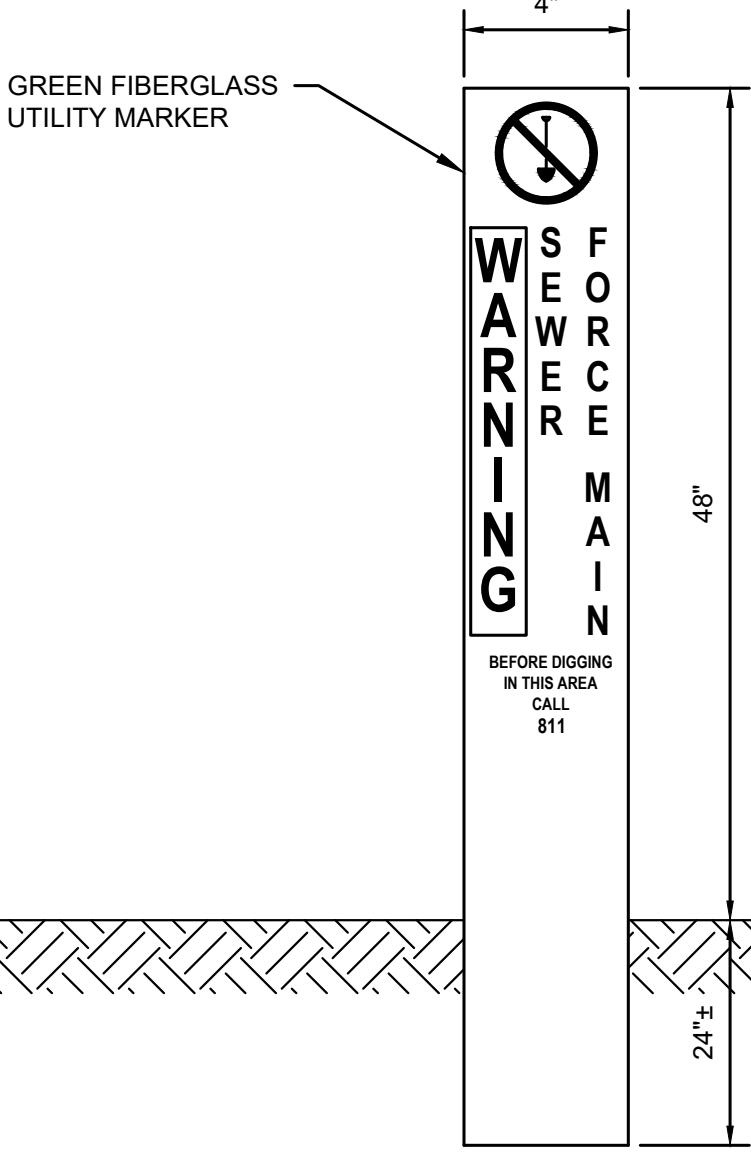
1  
TYP NTS  
FORCE MAIN TRENCH SECTION



2  
TYP NTS  
FORCE MAIN DISCHARGE CONNECTION



NOTES:  
 1. POSITION LOCATE STATIONS OVER CENTERLINE OF FORCE MAIN.  
 2. PROVIDE LOCATE STATIONS AT 300' MAXIMUM SPACING INTERVALS AND AT HORIZONTAL BENDS/DEFLECTION AS NOTED ON THE PLANS.  
 3. IN UNPAVED AREAS, PROVIDE SEWER FORCE MAIN MARKER AT LOCATE STATION



4  
TYP NTS  
SEWER FORCE MAIN MARKER DETAIL

IN DEVELOPMENT

A  
C2-1  
SECTION  
NTS

B  
C2-2  
SECTION  
NTS

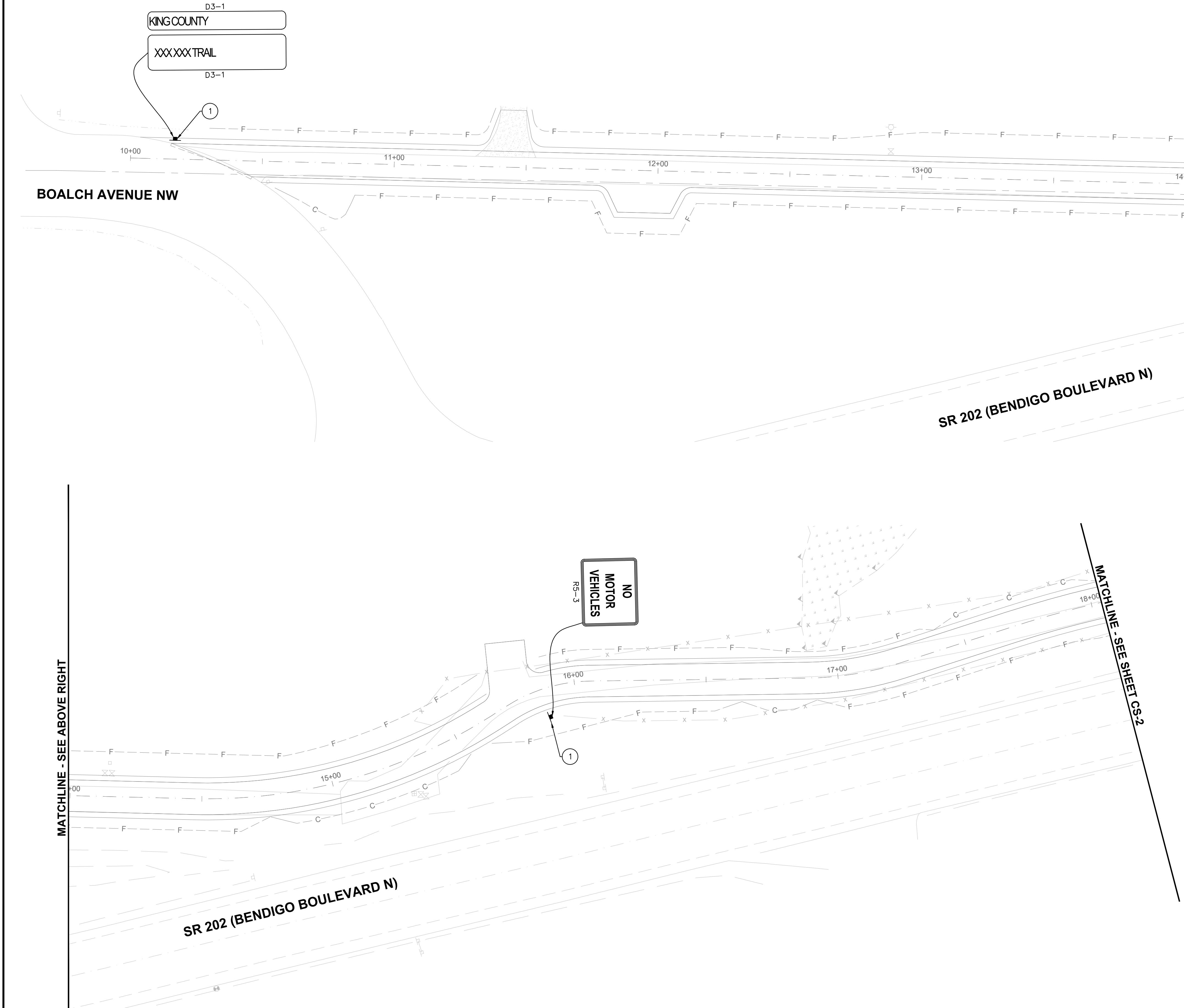
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SEWER DETAILS



CITY OF  
NORTH BEND  
SR 202 SHARED-USE  
TRAIL EXTENSION





**MATCHLINE - SEE BELOW LEFT**

## **GENERAL NOTES:**

1. CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS OUTSIDE OF OVERLAY AREA.
2. LANE WIDTHS ARE MEASURED FROM CURB FACES TO CENTER OF PAINT LINE OR BETWEEN CENTERS OF PAINT LINES AS APPLICABLE.
3. ALL PAVEMENT MARKINGS SHALL BE LAID OUT WITH SPRAY PAINT AND APPROVED BY THE CITY TRAFFIC ENGINEER OR DESIGNER BEFORE THEY ARE INSTALLED. APPROVAL SHALL REQUIRE ADVANCE NOTICE OF THREE WORKING DAYS TO EITHER HAVE FIELD LAYOUT REVIEWED AND APPROVED OR TO MAKE ARRANGEMENTS TO MEET THE CITY TRAFFIC ENGINEER OR DESIGNER ON SITE DURING CONSTRUCTION.
4. EXISTING PAVEMENT MARKING REMOVAL IS ONLY REQUIRED IN AREAS WHERE PAVEMENT IS NOT BEING DISTURBED.

## CHANNELIZATION NOTES:

1 PAINTED WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10.

2 4" WIDE SOLID YELLOW PAINTED LINE PER WSDOT STD  
PLAN M-20.10.

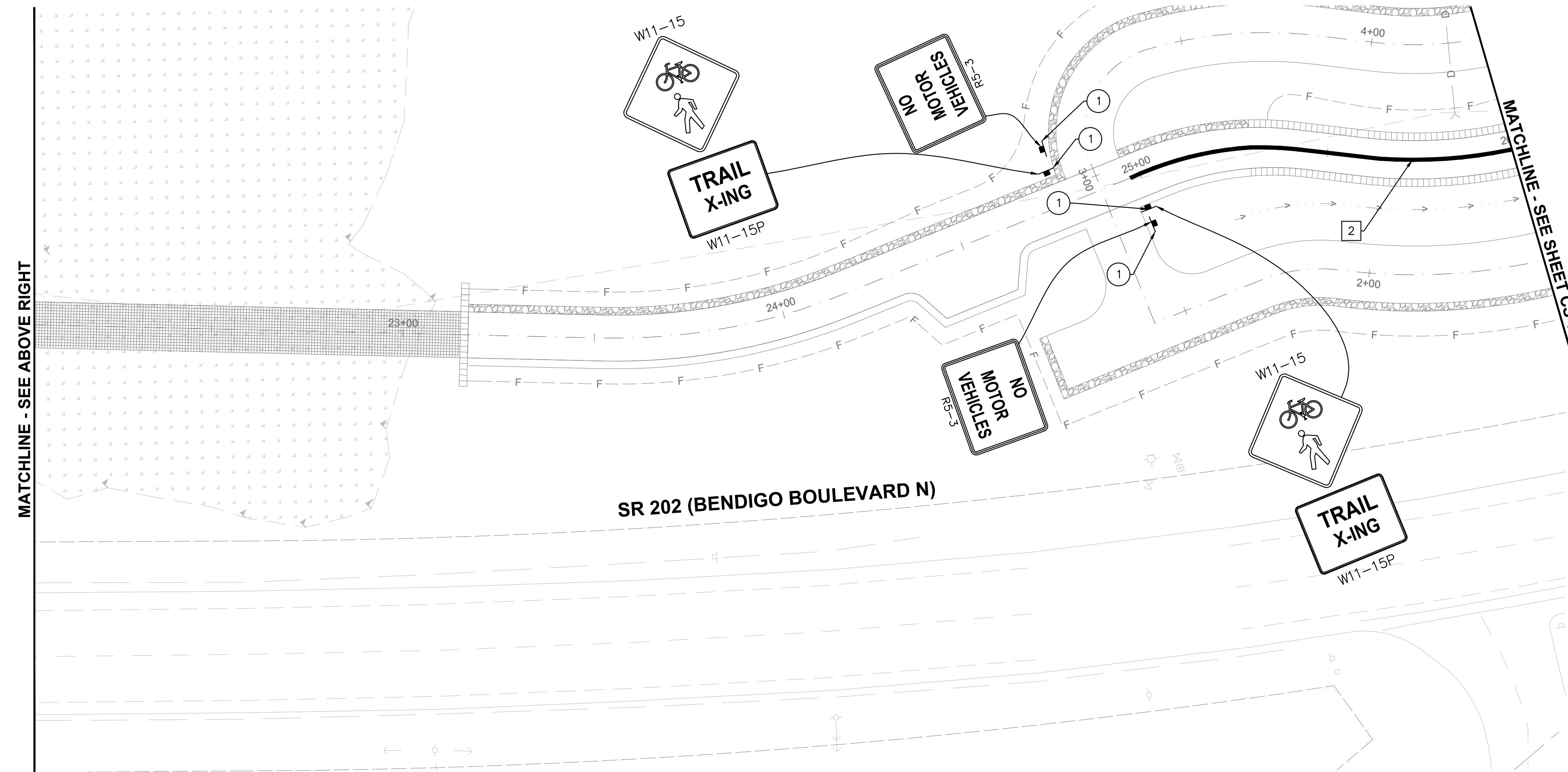
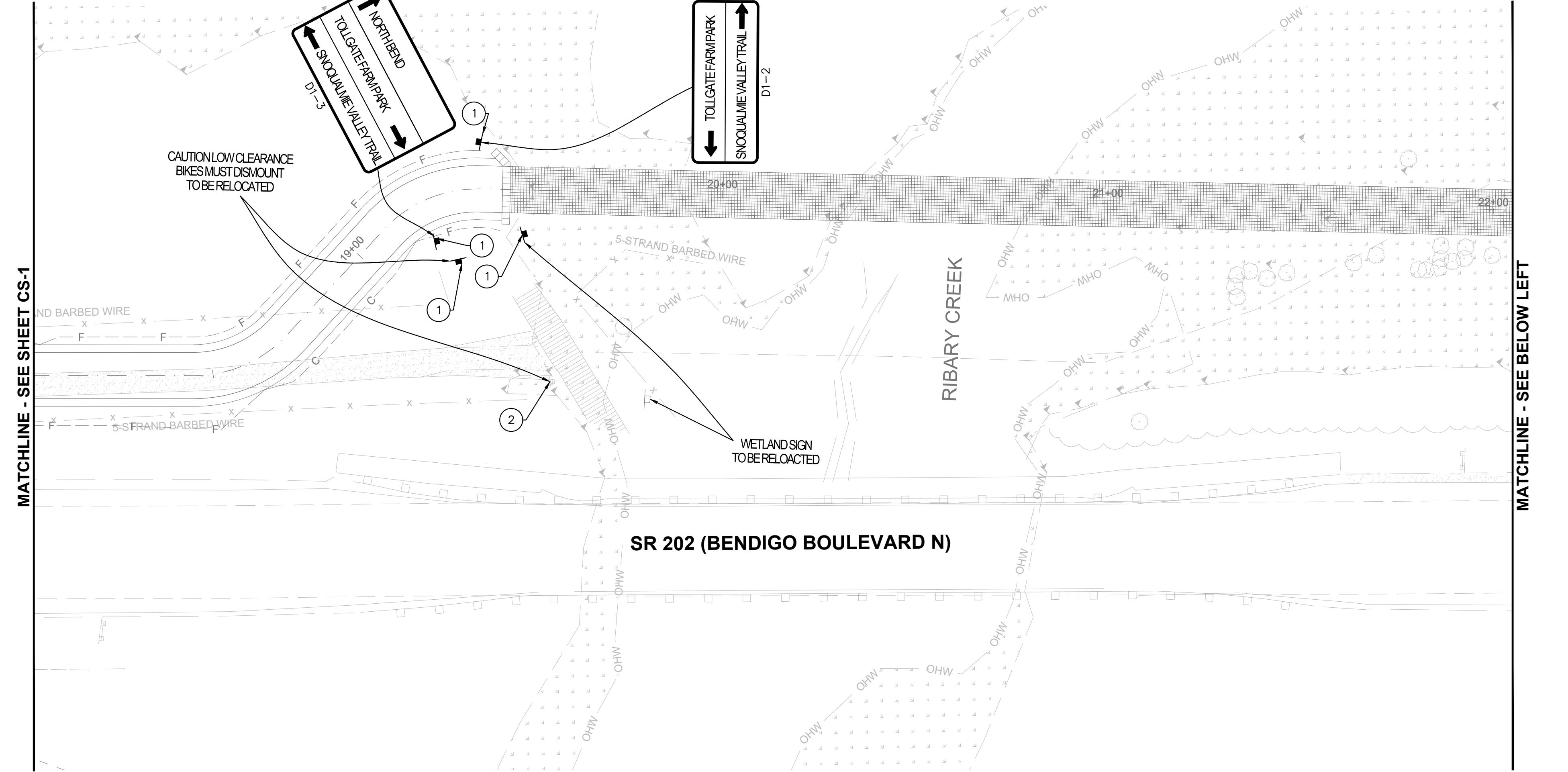
## SIGNAGE NOTES:

**SIGNAGE NOTES:**

- 1 INSTALL TIMBER SIGN SUPPORT PER WSDOT STD PLAN G-22.10 & TRAFFIC SIGN PER PLAN
- 2 REMOVE AND DISPOSE OF EXISTING TRAFFIC POST

## LEGEND:

## LEADER.



**GENERAL NOTES:**

1. CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS OUTSIDE OF OVERLAY AREA.
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- 2 4" WIDE SOLID YELLOW PAINTED LINE PER WSDOT STD PLAN M-9.60-00.

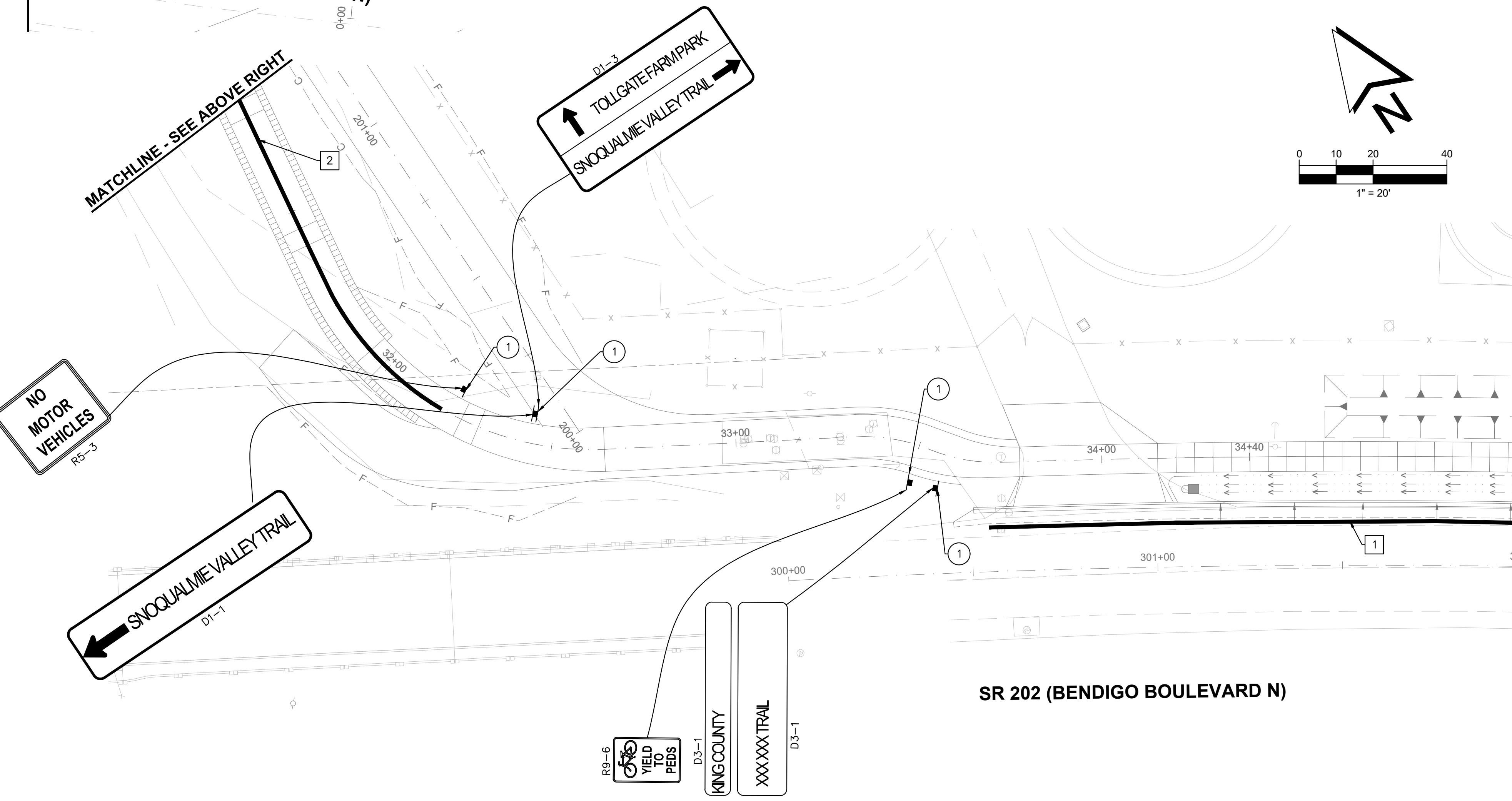
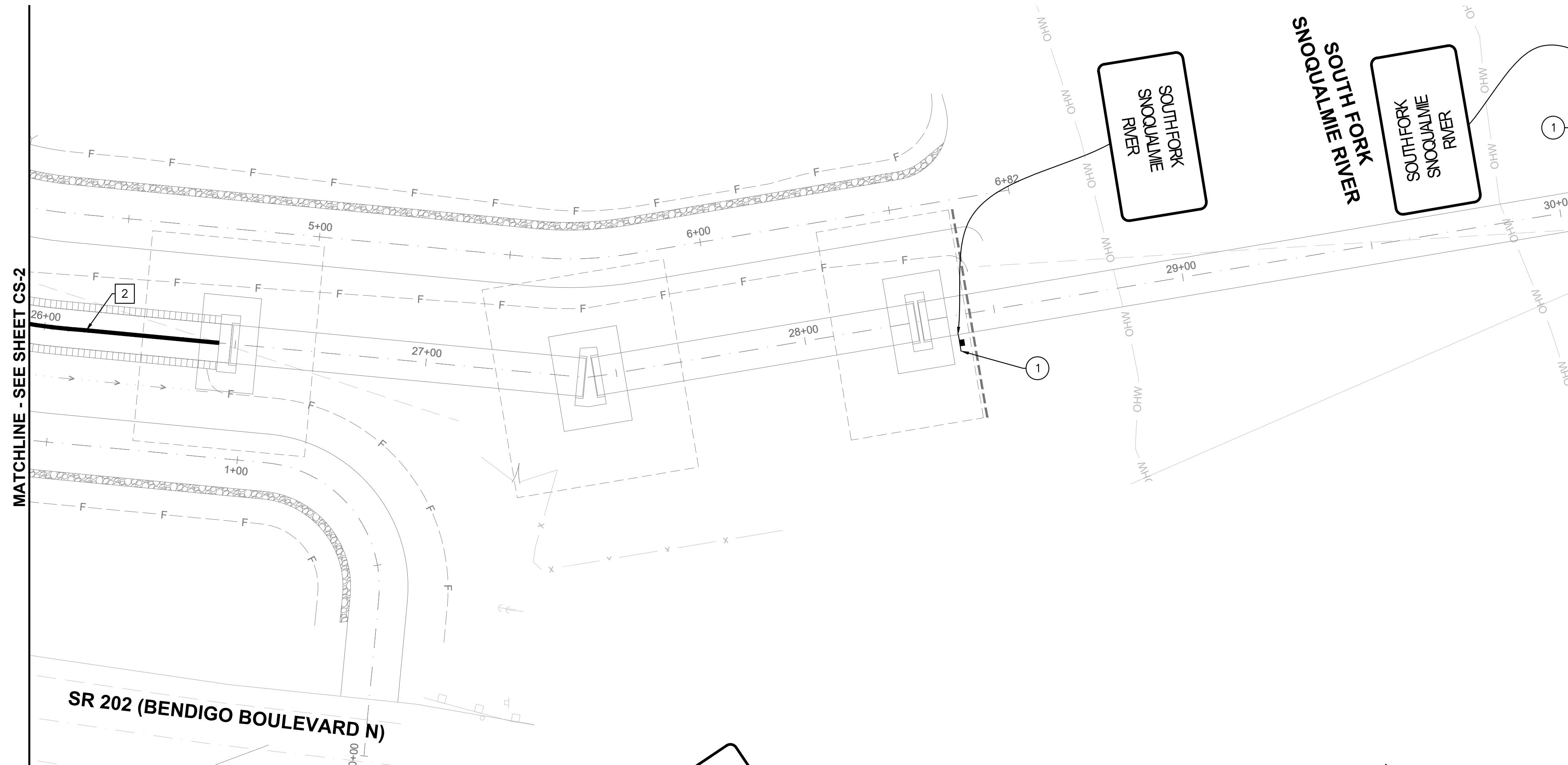
**SIGNAGE NOTES:**

- 1 INSTALL TIMBER SIGN SUPPORT PER WSDOT STD PLAN C-22.10 & TRAFFIC SIGN PER PLAN
- 2 REMOVE AND DISPOSE OF EXISTING TRAFFIC POST

**LEGEND:**

- SIGN AND POST

<p>Gray &amp; Osborne, Inc. CONSULTING ENGINEERS 3710 168TH STREET NORTHEAST, BUILDING B, SUITE 210 ARLINGTON, WA 98223 (360) 454-5490</p>																																
<p>PH CONSULTING Balanced Transportation Solutions</p>																																
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<p><b>CS-2 OF: 46</b></p>																																



<p><b>GENERAL NOTES:</b></p> <ol style="list-style-type: none"> <li>1. CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS OUTSIDE OF OVERLAY AREA.</li> <li>2. LANE WIDTHS ARE MEASURED FROM CURB FACES TO CENTER OF PAINT LINE OR BETWEEN CENTERS OF PAINT LINES AS APPLICABLE.</li> <li>3. ALL PAVEMENT MARKINGS SHALL BE LAID OUT WITH SPRAY PAINT AND APPROVED BY THE CITY TRAFFIC ENGINEER OR DESIGNER BEFORE THEY ARE INSTALLED. APPROVAL SHALL REQUIRE ADVANCE NOTICE OF THREE WORKING DAYS TO EITHER HAVE FIELD LAYOUT REVIEWED AND APPROVED OR TO MAKE ARRANGEMENTS TO MEET THE CITY TRAFFIC ENGINEER OR DESIGNER ON SITE DURING CONSTRUCTION.</li> <li>4. EXISTING PAVEMENT MARKING REMOVAL IS ONLY REQUIRED IN AREAS WHERE PAVEMENT IS NOT BEING DISTURBED.</li> </ol> <p><b>CHANNELIZATION NOTES:</b></p> <ul style="list-style-type: none"> <li>1. PAINTED WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10.</li> <li>2. 4" WIDE SOLID YELLOW PAINTED LINE PER WSDOT STD PLAN M-9.60-00.</li> </ul> <p><b>SIGNAGE NOTES:</b></p> <ul style="list-style-type: none"> <li>1. INSTALL TIMBER SIGN SUPPORT PER WSDOT STD PLAN C-22.10 &amp; TRAFFIC SIGN PER PLAN</li> <li>2. REMOVE AND DISPOSE OF EXISTING TRAFFIC POST</li> </ul> <p><b>LEGEND:</b></p> <p>■ SIGN AND POST</p>																																
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**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
3710 168TH STREET NORTHEAST,  
BUILDING B, SUITE 210  
ARLINGTON, WA 98223  
(360) 454-5490

**PH CONSULTING**  
Balanced Transportation Solutions



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**SR 202 SHARED-USE TRAIL EXTENSION**



**CITY OF  
NORTH BEND**  
**SR 202 SHARED-USE  
TRAIL EXTENSION**



**GENERAL NOTES:**

1. CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS OUTSIDE OF OVERLAY AREA.
2. LANE WIDTHS ARE MEASURED FROM CURB FACES TO CENTER OF PAINT LINE OR BETWEEN CENTERS OF PAINT LINES AS APPLICABLE.
3. ALL PAVEMENT MARKINGS SHALL BE LAID OUT WITH SPRAY PAINT AND APPROVED BY THE CITY TRAFFIC ENGINEER OR DESIGNER BEFORE THEY ARE INSTALLED. APPROVAL SHALL REQUIRE ADVANCE NOTICE OF THREE WORKING DAYS TO EITHER HAVE FIELD LAYOUT REVIEWED AND APPROVED OR TO MAKE ARRANGEMENTS TO MEET THE CITY TRAFFIC ENGINEER OR DESIGNER ON SITE DURING CONSTRUCTION.
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**CHANNELIZATION NOTES:**

- 1** PAINTED WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10.
- 2** 4" WIDE SOLID YELLOW PAINTED LINE PER WSDOT STD. PLAN M-9.60-00.

**SIGNAGE NOTES:**

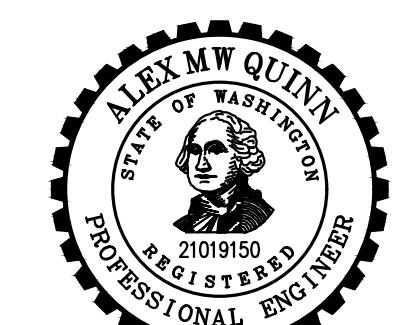
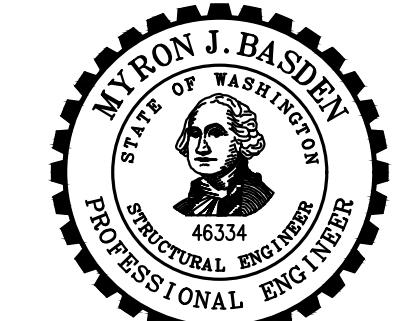
- 1** INSTALL TIMBER SIGN SUPPORT PER WSDOT STD PLAN G-22.10 & TRAFFIC SIGN PER PLAN
- 2** REMOVE AND DISPOSE OF EXISTING TRAFFIC POST

**LEGEND:**

SIGN AND POST

No.	DATE	REVISION
ISSUED FOR:		
PRELIMINARY DESIGN SUBMITTAL		
ISSUE DATE:	DEC 2024	
APPROVED BY:	M.M.T.	
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DRAWN BY:	S.D.C.	
G&O #:	24421.00	
FILE:	23-029_TC.DWG	
0	1"	2"
TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		

**CHANNELIZATION &  
SIGNAGE PLAN**



**CITY OF  
NORTH BEND**

**SR 202 SHARED-USE  
TRAIL EXTENSION**

No.	DATE	REVISION
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CHECKED BY:	K.W.B.	
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G&O #:	24421.00	
FILE:	S_STND.DWG	
0	1"	2"
TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		

**GENERAL  
STRUCTURAL NOTES**

**GENERAL STRUCTURAL NOTES**

**GENERAL**  
THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY. USE DETAIL MARKED "TYPICAL" WHEREVER APPLICABLE. CHANGES, OMISSIONS OR SUBSTITUTIONS ARE NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE ENGINEER. REFER TO THE SPECIFICATIONS FOR FURTHER REQUIREMENTS. DO NOT SCALE THE DRAWINGS.

ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CURRENT EDITIONS OF THE AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES AND AASHTO GUIDE SPECIFICATION FOR THE DESIGN OF PEDESTRIAN BRIDGES.

THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE ENGINEER OF RECORD. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO ITS COMPLETION. THE CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE COMPLETION OF THE STRUCTURE.

THE GENERAL NOTES APPLY TO ALL STRUCTURES UNLESS NOTED OTHERWISE (U.N.O.). LOCATION AND SIZE OF ANCHOR BOLTS FOR SPECIFIC EQUIPMENT SHALL BE SPECIFIED BY THE VENDOR. CONTRACTOR SHALL COORDINATE LOCATIONS OF STRUCTURAL OPENINGS, PENETRATIONS AND EMBEDDED ITEMS WITH THE MECHANICAL, ARCHITECTURAL, ELECTRICAL, PLUMBING AND VENTILATION SECTIONS OF THE DRAWINGS AND WITH SUPPLIERS AND SUBCONTRACTORS AS MAY BE REQUIRED.

**SHOP DRAWINGS**  
SHOP DRAWINGS, WHERE REQUIRED, SHALL BE CHECKED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING FOR ENGINEER REVIEW. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW OF DESIGN INTENT, PRIOR TO FABRICATION. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF DIMENSIONS AND DETAILS FOR EACH SUBCONTRACTOR.

**DESIGN LOADS**  
BRIDGE DEAD LOAD..... PER MANUFACTURER  
BRIDGE LIVE LOAD..... 90 PSF  
BRIDGE VEHICULAR LOAD..... 10,000 LBS

**WIND:**  
DESIGN WIND SPEED..... 110 MPH  
SERVICE WIND SPEED..... 76 MPH  
WIND EXPOSURE CATEGORY..... C

**SEISMIC:**  
SITE CLASS..... D  
PGA..... 0.377  
Ss..... 0.835 g  
S1..... 0.337 g

FOUNDATION DATA PER GEOTECHNICAL REPORT BY PanGEO, INC. DATED NOVEMBER 26, 2024.

SERVICE LIMIT STATE NOMINAL BEARING RESISTANCE..... 3,000 PSF  
STRENGTH AND EXTREME LIMIT STATE NOMINAL BEARING RESISTANCE..... 20,000 PSF

ABOVE ARE ASSUMED PER DATA PROVIDED,  
CONTRACTOR MUST VERIFY IN FIELD.

EXTEND ALL EXTERIOR FOOTINGS 2'-0" MINIMUM BELOW FINISHED GRADE, UNO (UNLESS NOTED OTHERWISE), BOTTOM OF ALL FOOTINGS TO BEAR ON NATIVE, INORGANIC, UNDISTURBED SOIL. NO FOOTING SHALL BEAR HIGHER THAN 1' VERTICAL TO 1.5 HORIZONTAL SLOPE ABOVE ANY EXCAVATION, EXISTING OR PLANNED. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING TO PREVENT MOVEMENT OF WALLS IF BACKFILL IS PLACED BEFORE FLOOR SYSTEM IS IN PLACE. THERE SHALL BE 95% COMPACTION (ASTM D1557 MODIFIED PROCTOR DENSITY) OF ALL BACKFILL SOIL UNDER SLABS ON GRADE.

**CAST-IN-PLACE CONCRETE**

CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

28-DAY STRENGTH  $f_c=4,000$  PSI

AIR ENTRAINMENT: 5%-7%

MAXIMUM SLOP: 3" FOR SLABS FOOTINGS, 4" FOR WALLS, COLUMNS AND BEAMS. CONSTRUCTION TO BE IN ACCORDANCE WITH ACI 318.

SUBMIT MIX DESIGN FOR REVIEW AND PROVIDE NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD FOR ALL CONCRETE WITH MAXIMUM W/C=0.45.

**REINFORCING STEEL**

WELDED WIRE FABRIC (W.W.F.): ASTM A82 AND A185

DEFORMED BARS: ASTM A615, GRADE 60 (GRADE 40 FOR #3).

UNLESS OTHERWISE NOTED ON THESE DRAWINGS, MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS:

CONCRETE CAST AGAINST SOIL=3".

FORMED CONCRETE AGAINST SOIL=2".

WALLS, COLUMNS AND BEAMS EXPOSED TO WATER, SEWAGE & WEATHER=2".

WALLS, COLUMNS AND BEAMS DRY CONDITION=1 1/2".

PROVIDE 2-#5 MIN. U.N.O. TRIM BARS AROUND ALL OPENINGS IN CONCRETE WALLS OR SLAB EXTENDING 2'-6" PAST CORNERS, TYP. AT TIME OF CONCRETE PLACEMENT, REINFORCING SHALL BE FREE OF MUD, OIL, OR OTHER NONMETALLIC COATINGS THAT MAY DECREASE BOND.

WELDING OF REINFORCING BARS SHALL CONFORM TO ANSI/AWS D1.4.

WHERE PERMITTED, LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS. SPECIAL INSPECTION IS REQUIRED FOR ALL FIELD WELDING.

SUBMIT SHOP DRAWINGS OF REINFORCING STEEL FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION. REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 AND 318 (LATEST EDITION).

**STRUCTURAL STEEL AND MISCELLANEOUS METALS**

"W" SHAPES: ASTM A992,  $F_y=50$  KSI.

"HP" SHAPES: ASTM A572,  $F_y=50$ , KSI.

CHANNELS, ANGLES, PLATES, AND BARS: ASTM A36,  $F_y=36$  KSI.

PIPE: ASTM A53 OR A501,  $F_y=35$  KSI MINIMUM.

TUBING: ASTM A500, GRADE B,  $F_y=46$  KSI.

ALL BOLTS FOR CONNECTIONS IN SUBMERGED CONDITION SHALL BE: ASTM F593C OR F593D STAINLESS STEEL (SS) BOLTS. ALL OTHERS SHALL BE GALVANIZED ASTM F3125 GRADE A325 BOLTS HIGH STRENGTH BOLTS (H.S.B.), U.N.O. AS ASTM A307 MACHINE BOLTS (M.B.). WHERE HIGH STRENGTH BOLTS ARE USED, THEY SHALL BE INSTALLED WITH LOAD INDICATOR DEVICES (LOAD INDICATOR WASHERS OR SNAP-OFF HEADS).

ADHESIVE ANCHORS: HILTI HIT-RE 500 V3 OR APPROVED EQUAL, U.N.O. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

HEADED ANCHOR STUDS (H.A.S.): ASTM A108,  $F_y=50$  KSI, END WELDED PER MANUFACTURER'S RECOMMENDATIONS.

ALL ANCHOR BOLTS AND THREADED RODS: ASTM F1554, U.N.O., ASTM A193 GRADE B8 WHERE STAINLESS STEEL IS NOTED. ALL ANCHOR BOLTS MUST BE ACCURATELY PLACED IN THEIR FINAL LOCATION PRIOR TO POURING CONCRETE, "WET STICKING" OF ANCHOR BOLTS IS NOT ALLOWED.

WELDING ELECTRODES OR WIRES: AWS A5.1 OR A5.5, E70XX, AWS A5.17, E70S-X; AWS A5.20, E7XT-X.  
FOR ALL SHOP WELDS AND FIELD WELDS OF ALL LATERAL RESISTING ELEMENTS, ELECTRODES SHALL BE E70 WITH A MINIMUM SPECIFIED CVN OF 20 FT-LBS AT -20 DEGREES FAHRENHEIT. ALL WELDS SHALL BE 3/16" MINIMUM U.N.O.

ERCTION AND FABRICATION IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS." WELDING SHALL CONFORM TO AWS "STRUCTURAL WELDING CODE - STEEL". ALL WELDING SHALL BE PERFORMED BY AWS/WABO CERTIFIED WELDERS.

ALL COLUMNS AND BEAMS TO BE FROM UNSPLICED LENGTHS U.N.O. ON THE DRAWINGS. SUBMIT SHOP DRAWINGS SHOWING SIZES, DIMENSIONS AND REQUIRED CONNECTION DETAILS FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION.

**FRP GRATING**

GRATING SHALL BE FIBERGLASS REINFORCED PLASTIC. GRATING BAR SIZES AND SPACING, OVERALL DIMENSIONS, CUTOUTS FOR OBSTRUCTIONS AND DIRECTIONS OF BEARING BARS SHALL BE AS INDICATED ON THE PLANS. GRATING SHALL SAFELY SUSTAIN:

UNIFORMLY DISTRIBUTED LOAD: 100 PSF

MAXIMUM DEFLECTION: 1/4 INCH

**WOOD**

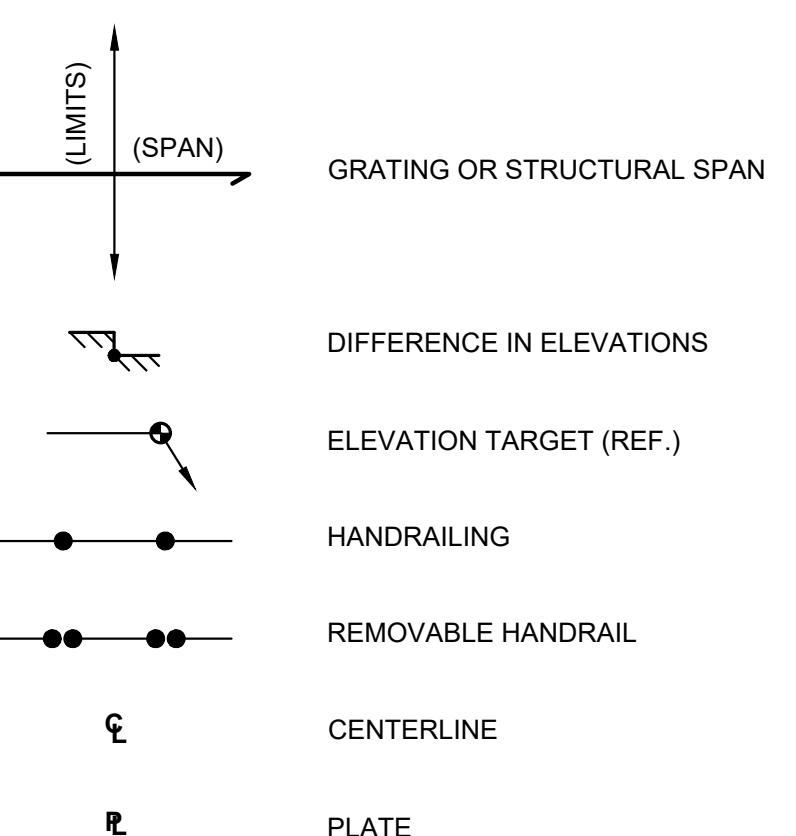
SAWN LUMBER: HEM-FIR #1 OR BETTER, U.N.O. WWP GRAADING RULES. ALL DIMENSIONS NOTED ARE NOMINAL. WOOD BEARING ON OR WITHIN 1" OF CONCRETE OR CMU OR WITHIN 6" OF EARTH SHALL BE TREATED WITH AN APPROVED PRESERVATIVE. ALL NAILS ARE TO BE "COMMON." ALL NAILS IN TREATED TIMBER SHALL BE GALVANIZED. ALL FRAMING CONNECTORS NOTED ARE PER SIMPSON STRONG TIE COMPANY INC. OR ENGINEER APPROVED EQUAL. SEE MANUFACTURER'S REQUIREMENTS.

TREATED LUMBER SHALL BE BRANDED WITH A QUALITY CONTROL AGENCY MARK BY AMERICAN WOOD PROTECTION ASSOCIATION.

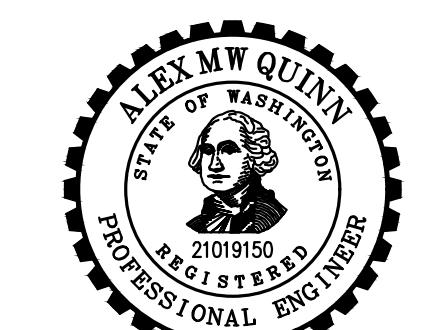
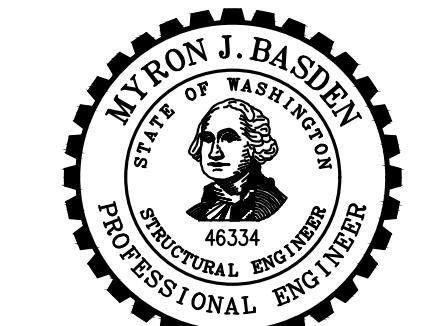
### SUPPLEMENTAL STRUCTURAL ABBREVIATIONS:

ABV	ABOVE	FRM'G	FRAMING	STIRR	STIRRUP
AFF	ABOVE FINISH FLOOR	FS	FAR SIDE	STRUC	STRUCTURE(AL)
ADD'L	ADDITIONAL	FTG	FOOTING	SYM	SYMMETRICAL
ADJ	ADJACENT	GA	GAUGE	T	TOP
AL	ALUMINUM	GB	GRADE BEAM	T&G	TONGUE AND GROOVE
APPRX	APPROXIMATE	GLB	GLUE-LAMINATED BEAM	TMTRY	TEMPORARY
ARCH	ARCHITECTURAL	HAS	HEADER ANCHOR STUDS	TN	TOE NAIL
@	AT	HDR	HEADER	TO	TOP OF
BEL	BELOW	HF	HEM-FIR	TOS	TOP OF SLAB
BF	BRACED FRAME	HGR	HANGER	TRANS	TRANSVERSE
BM	BEAM	HSB	HIGH STRENGTH BOLT (A325 UNO)	TYP	TYPICAL
BN	BOUNDARY NAIL	HSS	HOLLOW STRUCTURAL STEEL	UNO	UNLESS NOTED OTHERWISE
BNDRY	BOUNDARY	IBC	INTERNATIONAL BUILDING CODE	VFY	VERIFY
BO	BOTTOM OF	IF	INSIDE FACE	WHS	WELDED HEADED STUD
BOS	BOTTOM OF SLAB	INT	INTERIOR	WP	WORK POINT
BOT	BOTTOM	JST	JOIST	WS	WESTERN SPECIES
BRDG	BRIDGE(ING)	K	KIPS (1000 POUNDS)	WTS	WELDED THREADED STUD
BRG	BEARING	LAT	LATERAL	X-STG	EXTRA STRONG
CAM	CAMBER(ED)	LDGR	LEDGER	XX-STG	DOUBLE EXTRA STRONG
CANT	CANTILEVER(ED)	LLH	LONG LEG HORIZONTAL		
CDF	CONTROLLED DENSITY FILL	LLV	LONG LEG VERTICAL		
CG	CENTER OF GRAVITY	LS	LAG SCREW		
CIP	CAST IN PLACE	LSL	LAMINATED STRAND LUMBER		
CJ	CONTROL JOINT	LT WT	LIGHT WEIGHT		
CJP	COMPLETE JOINT PENETRATION	LVL	LAMINATED VENEER LUMBER		
COL	COLUMN	MAS	MASONRY		
CONST	CONSTRUCTION	MAT'L	MATERIAL		
CONT	CONTINUOUS	MB	MACHINE BOLT (A307)		
CTSK	COUNTERSINK	MFR	MANUFACTURER		
D	DEPTH	MRF	MOMENT RESISTING FRAME		
d	PENNY (NAILS)	MTL	METAL		
DBL	DOUBLE	(N)	NEW MEMBER		
DF	DOUGLAS FIR	NS	NEAR SIDE		
DIAG	DIAGONAL	OH	OVERHANG		
DIAPH	DIAPHRAGM	ORNT	ORIENTATE (ION)		
do	DITTO (DO OVER)	PAR	PARALLEL		
DWG	DRAWING	P/C	PRECAST CONCRETE		
DWL	DOWEL	PERP	PERPENDICULAR		
EA	EACH	PSL	PARALLEL STRAND LUMBER		
EF	EACH FACE	PT	PRESSURE TREAT(ED)		
EJ	EXPANSION JOINT	P/T	POST TENSIONED		
EMBD	EMBED(MENT)	QTY	QUANTITY		
EN	EDGE NAIL	REF	REFERENCE		
ENG	ENGINEER	REINF	REINFORCEMENT		
EQ	EQUAL	SHT	SHEET		
ES	EACH SIDE	SHTG	SHEATHING		
EXIST	EXISTING MEMBER	SIM	SIMILAR		
EXT	EXTERIOR	SKW	SKEW(ED)		
FFE	FINISHED FLOOR ELEVATION	SPC	SPACING		
FN	FACE NAIL	SS	STAINLESS STEEL		
FND	FOUNDATION	STGR	STAGGER		
FO	FACE OF	STIFF	STIFFENER		

### STRUCTURAL LEGEND



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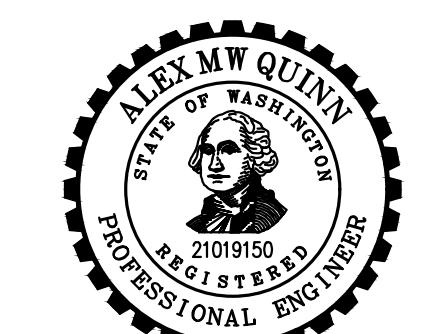
**CITY OF  
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G&O #: 24421.00		
FILE: S_STND.DWG		
0	1"	2"

TWO INCHES AT FULL SCALE,  
IF NOT, SCALE ACCORDINGLY

**SPECIAL INSPECTION  
SCHEDULE,  
SUPPLEMENTAL  
STRUCTURAL  
ABBREVIATIONS, AND  
STRUCTURAL LEGEND**



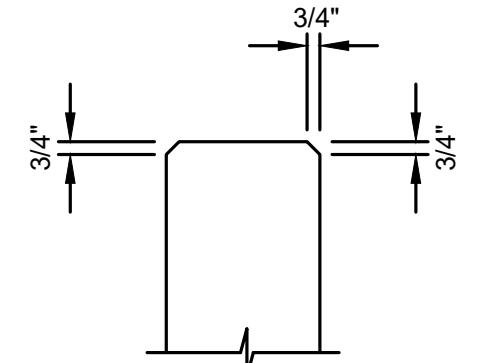
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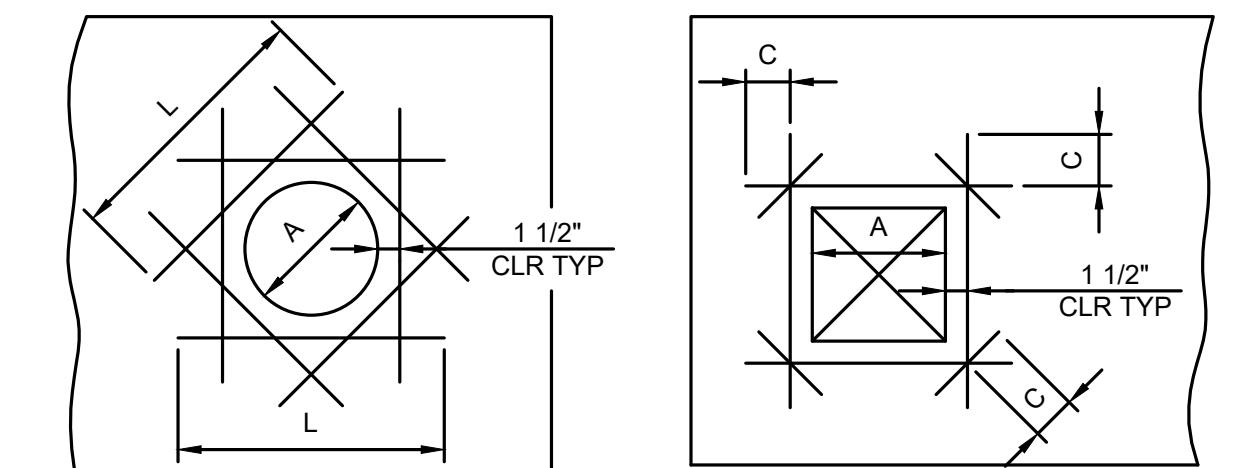
**TYPICAL DETAILS**

**SHEET: S-3 OF: 3**

REINF	LAP
#4	2'-4"
#5	3'-0"
#6	3'-6"
#7	4'-3"
#8	4'-10"
#9	5'-3"
#10	6'-6"
#11	8'-0"



**1 TYP LAP SCHEDULE**  
NOT TO SCALE



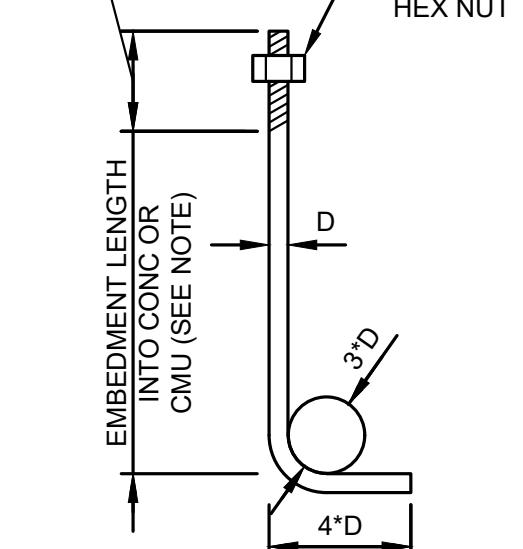
OPENING SIZE (A)	TYPE I		TYPE II	
	MINIMUM BAR LENGTH (L)	BAR SIZE	(C)	BAR SIZE
0" - 12"	3' - 9"	#5	1' - 0"	MATCH VERTICAL BARS
13" - 18"	4' - 9"	#6	1' - 3"	OR LARGEST BAR IN
19" - 24"	6' - 9"	MATCH VERTICAL BARS	2' - 6"	SLABS OR WALKWAYS
25" - 36"	7' - 9"	OR LARGEST BAR IN	2' - 6"	
36"	8' - 9"	SLABS OR WALKWAYS	2' - 6"	

**NOTE:**  
1. ALL BARS, EACH FACE. USE THESE BAR SIZES UNLESS OTHERWISE NOTED.

**2 TYP CHAMFER DETAIL**  
NOT TO SCALE

**3 TYP PENETRATION REINFORCING DETAIL**  
NOT TO SCALE

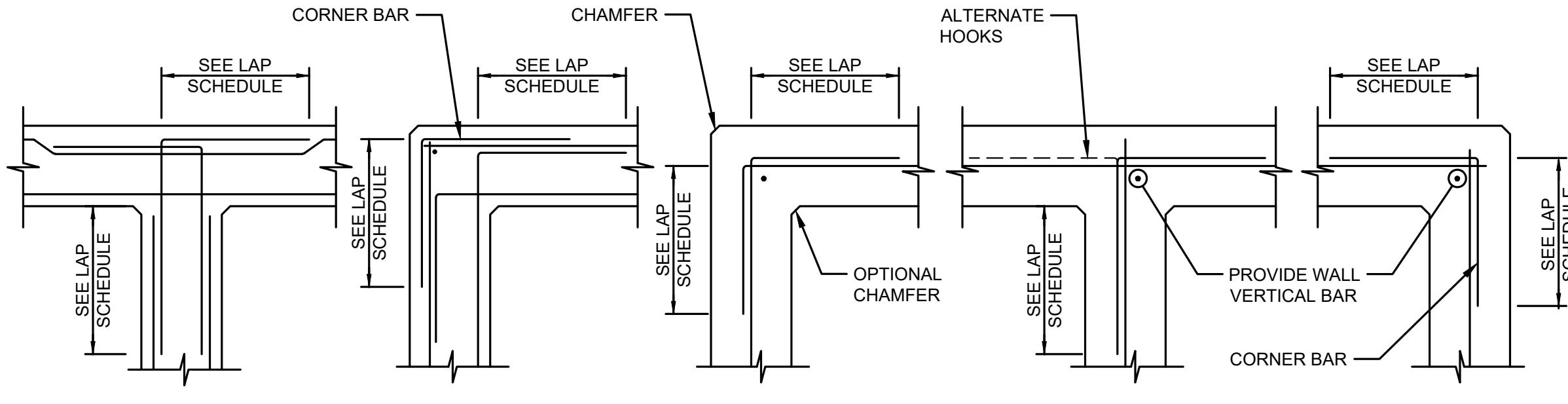
PROVIDE ADEQUATE  
THREAD EXTENSION FOR  
ATTACHMENT OF ALL  
MATERIALS



**4 TYP ANCHOR BOLT DETAIL**  
NOT TO SCALE

ANCHOR BOLT EMBEDMENT IN VERTICAL  
SURFACE APPLIES TO CONCRETE ONLY.

BOLT DIA. "D"	MINIMUM EMBEDMENT	
	ANCHOR BOLTS IN HORIZ SURFACE	ANCHOR BOLTS IN VERT SURFACE
1/2"	8"	7"
5/8"	8"	7"
3/4"	12"	7"
7/8"	12"	8"
1"	14"	9"
1 1/8"	14"	10"



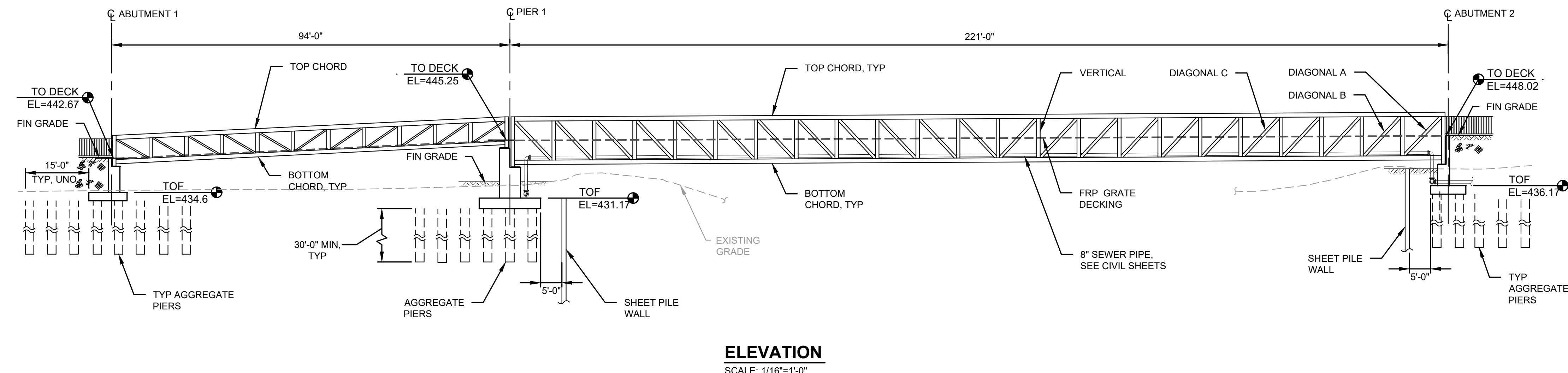
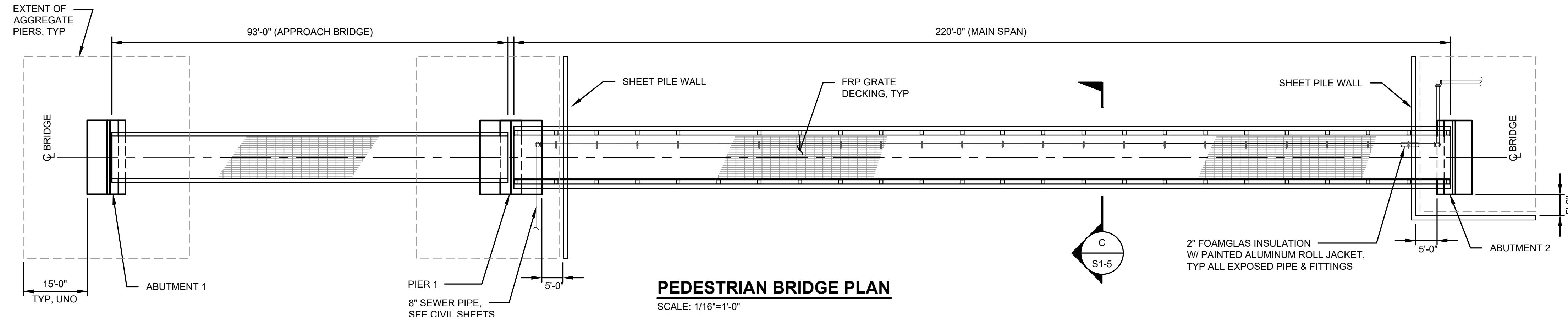
**DOUBLE CURTAIN**

**SINGLE CURTAIN**

**5 TYP REINFORCING @ WALL INTERSECTION DETAIL**  
NOT TO SCALE



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**SR 202 SHARED-USE  
TRAIL EXTENSION**



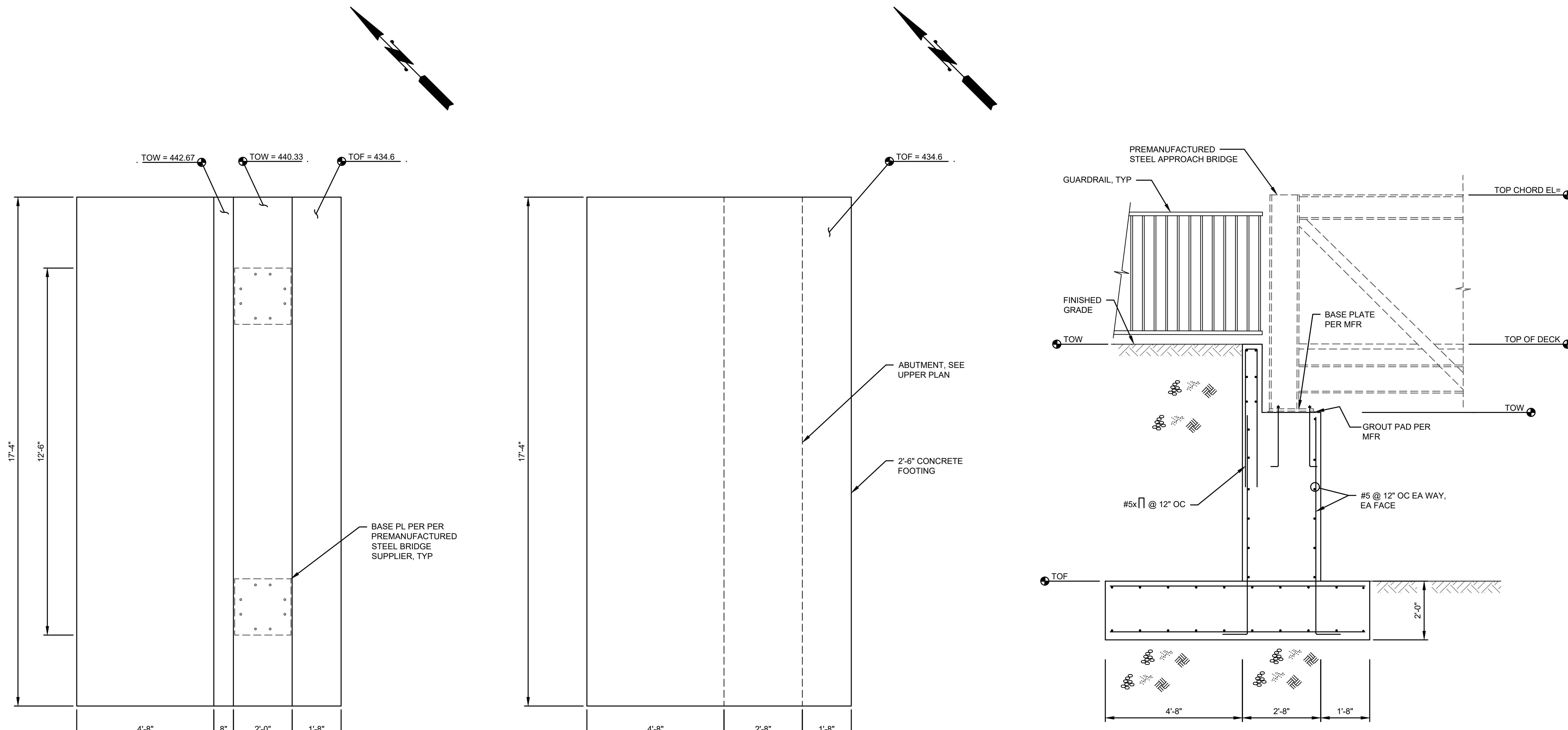
No.	DATE	REVISION
ISSUED FOR:	PRELIMINARY DESIGN SUBMITTAL	
ISSUE DATE:	DEC 2024	
APPROVED BY:	R.W.K.	
CHECKED BY:	K.W.B.	
DRAWN BY:	S.E.M.	
G&O #:	24421.00	
FILE:	S1_BRDG_PLN.DWG	
0	1"	2"
TWO INCHES AT FULL SCALE, IF NOT, SCALE ACCORDINGLY		

**MAIN BRIDGE SPAN  
PLAN AND APPROACH  
BRIDGE SPAN PLAN**



**CITY OF  
NORTH BEND**  
**SR 202 SHARED-USE  
TRAIL EXTENSION**

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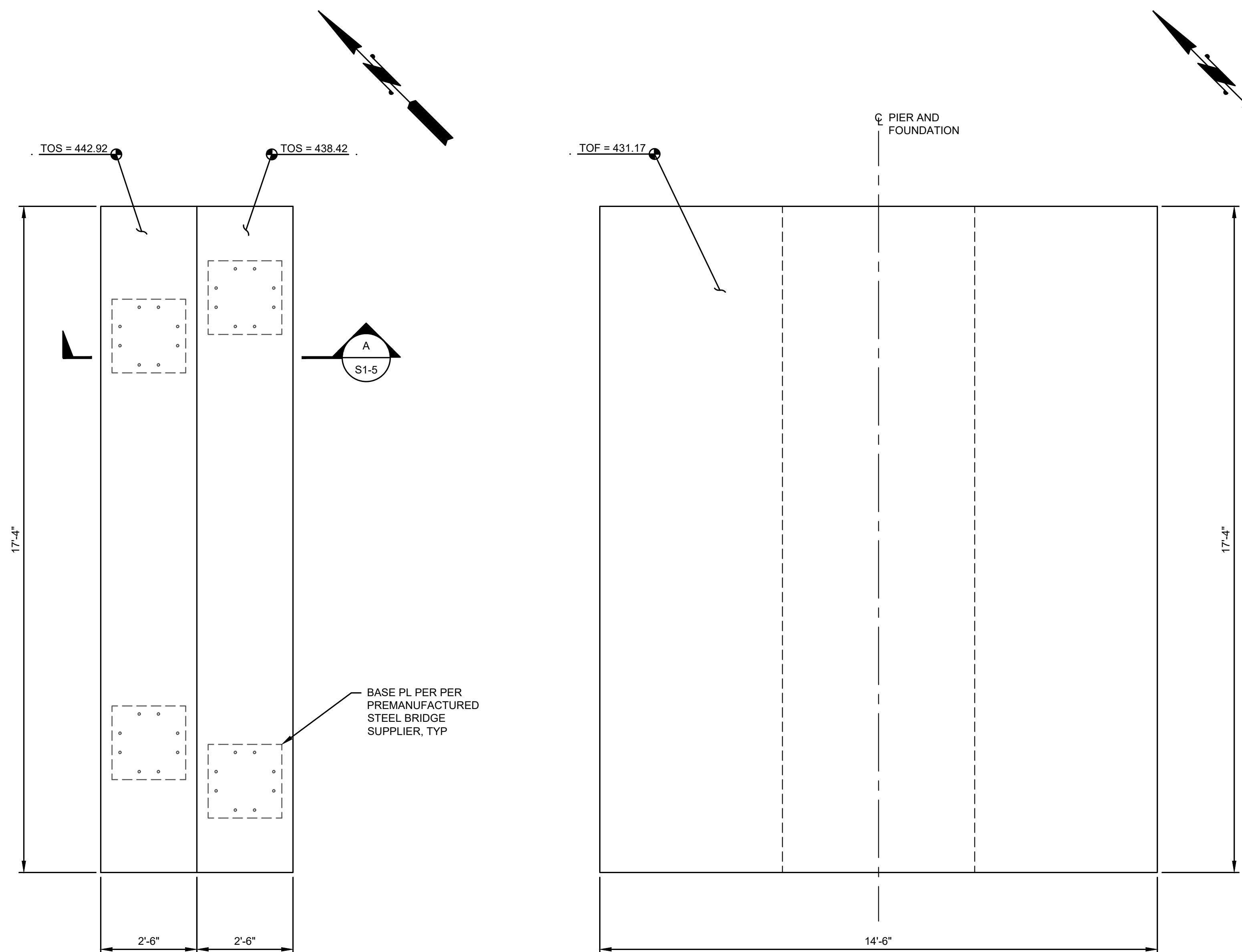


**ABUTMENT 1 UPPER  
PLAN, FOOTING PLAN,  
AND SECTION**



**CITY OF  
NORTH BEND**  
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TRAIL EXTENSION**

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0 1" 2"		
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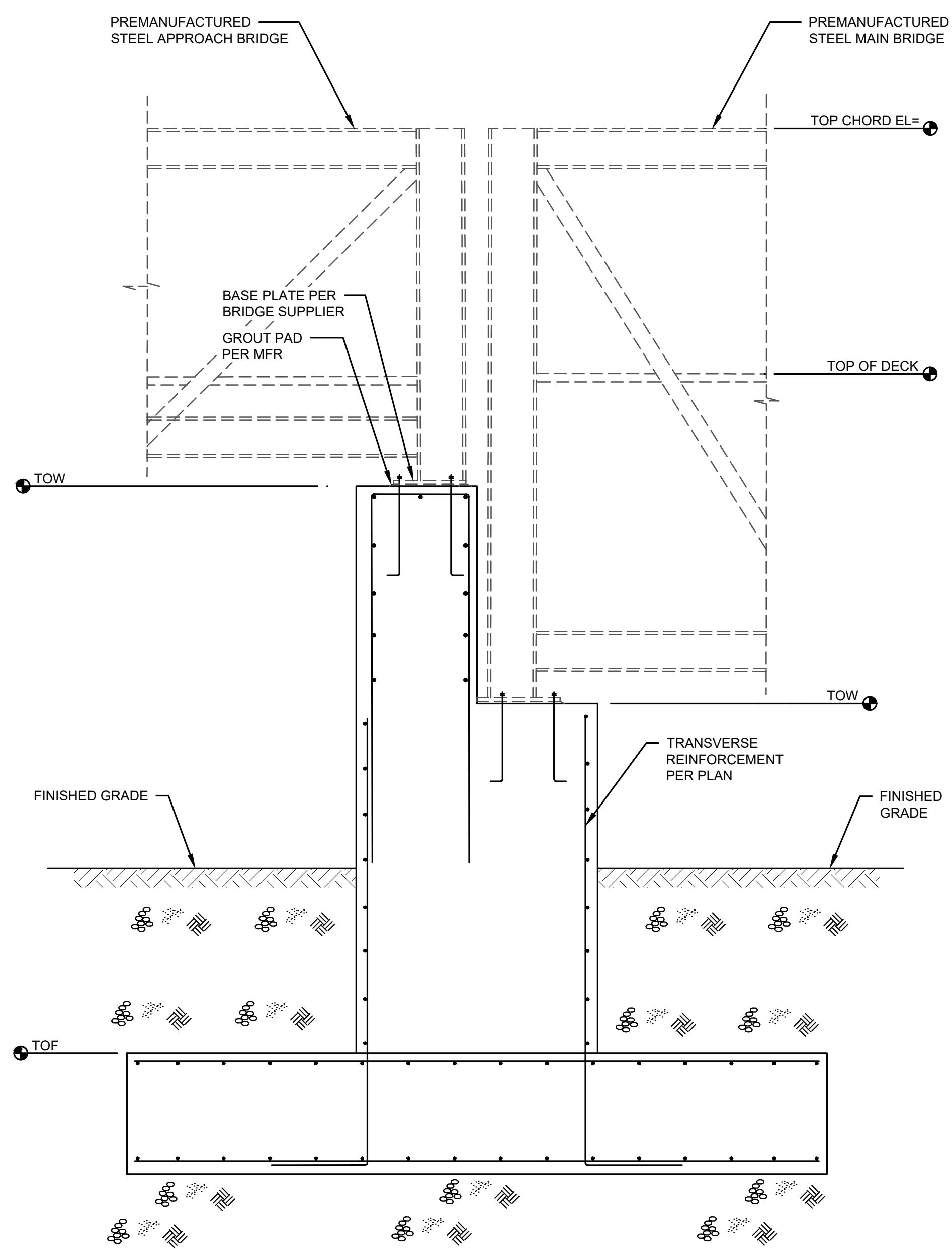


**PIER 1 UPPER PLAN**

SCALE: 1/2"=1'-0"

**PIER 1 FOUNDATION PLAN**

SCALE: 1/2"=1'-0"



**PIER 1 SECTION**

SCALE: 1/2"=1'-0"

**PIER 1 UPPER PLAN,  
FOUNDATION PLAN,  
AND SECTION**

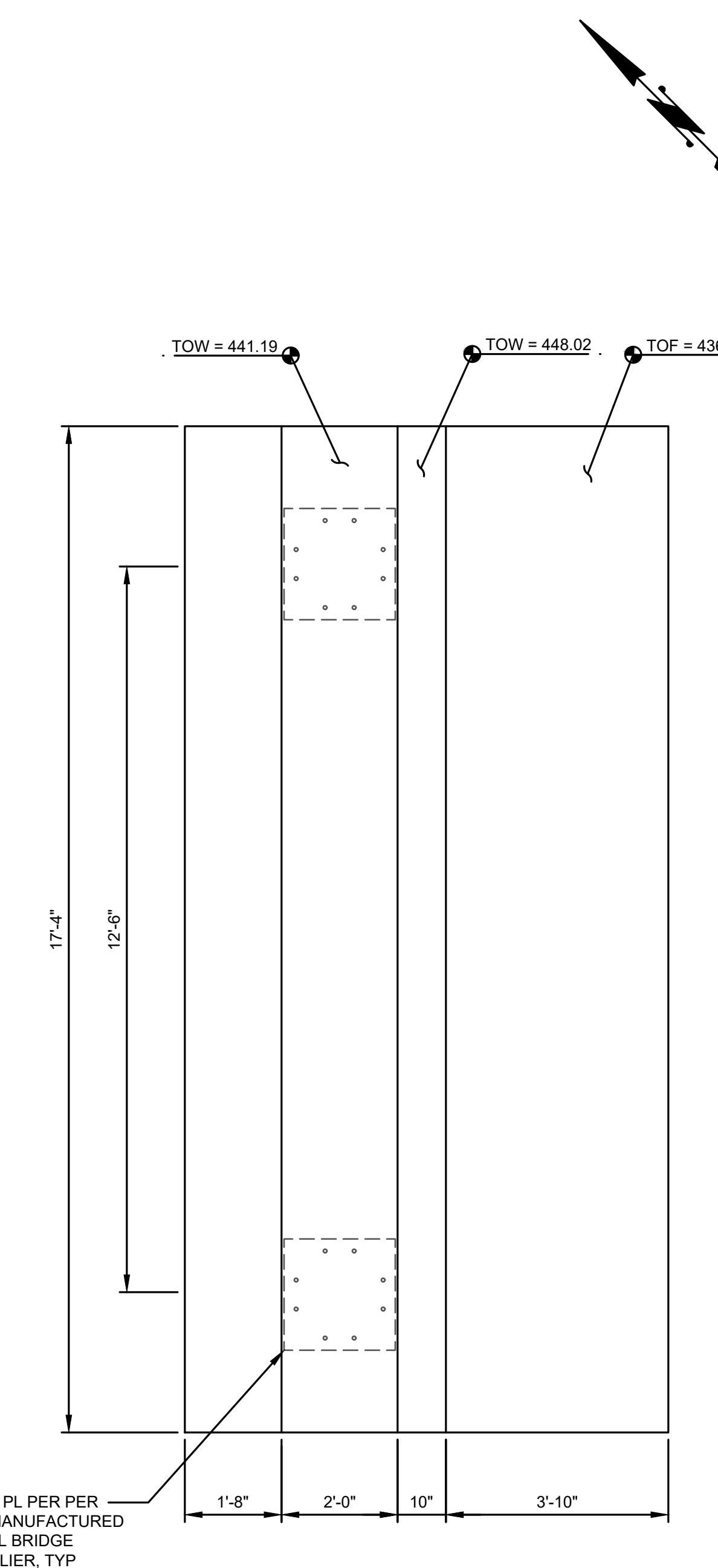


# CITY OF NORTH BEND

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G&O #:		24421.00
FILE: S1_BRDG_PLN.DWG		
0	1"	2"
		
TWO INCHES AT FULL SCALE.		
IF NOT, SCALE ACCORDINGLY		

## ABUTMENT 2 UPPER PLAN, FOUNDATION PLAN, AND SECTION

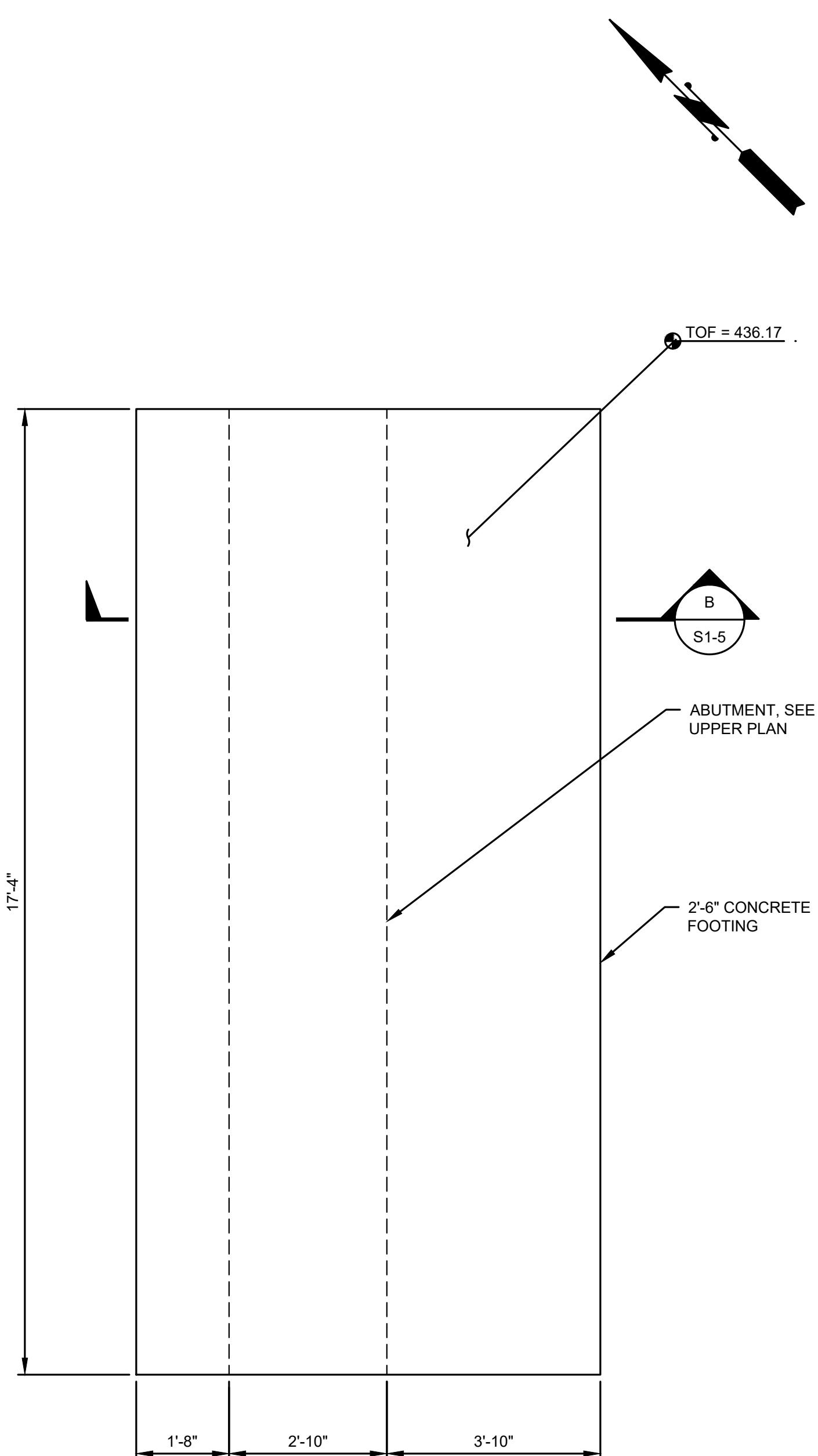
SHEET: **S1-4** OF: **5**



## ABUTMENT 2 UPPER PLAN

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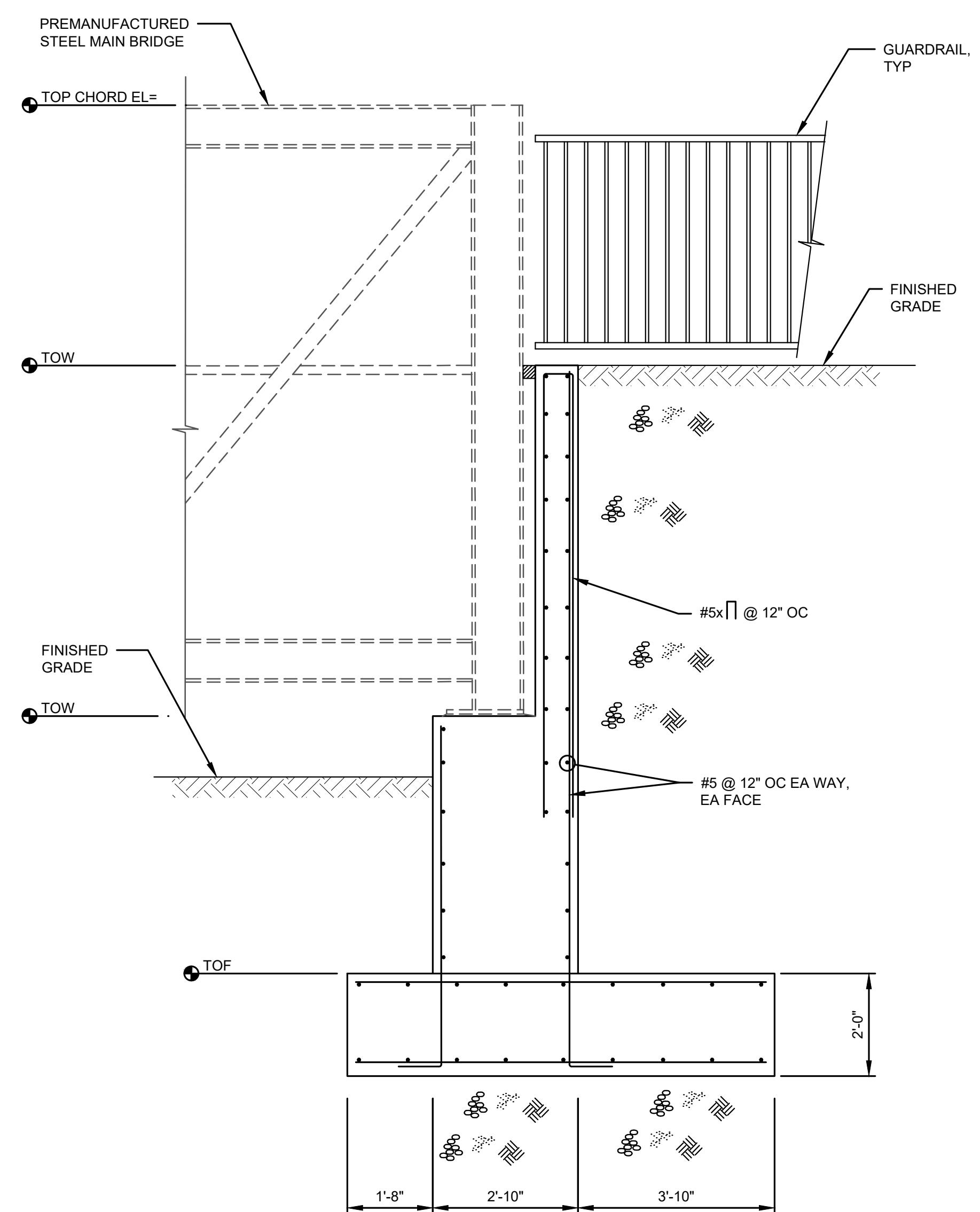
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## ABUTMENT 2 FOUNDATION PLAN

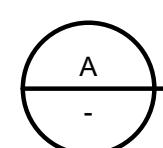
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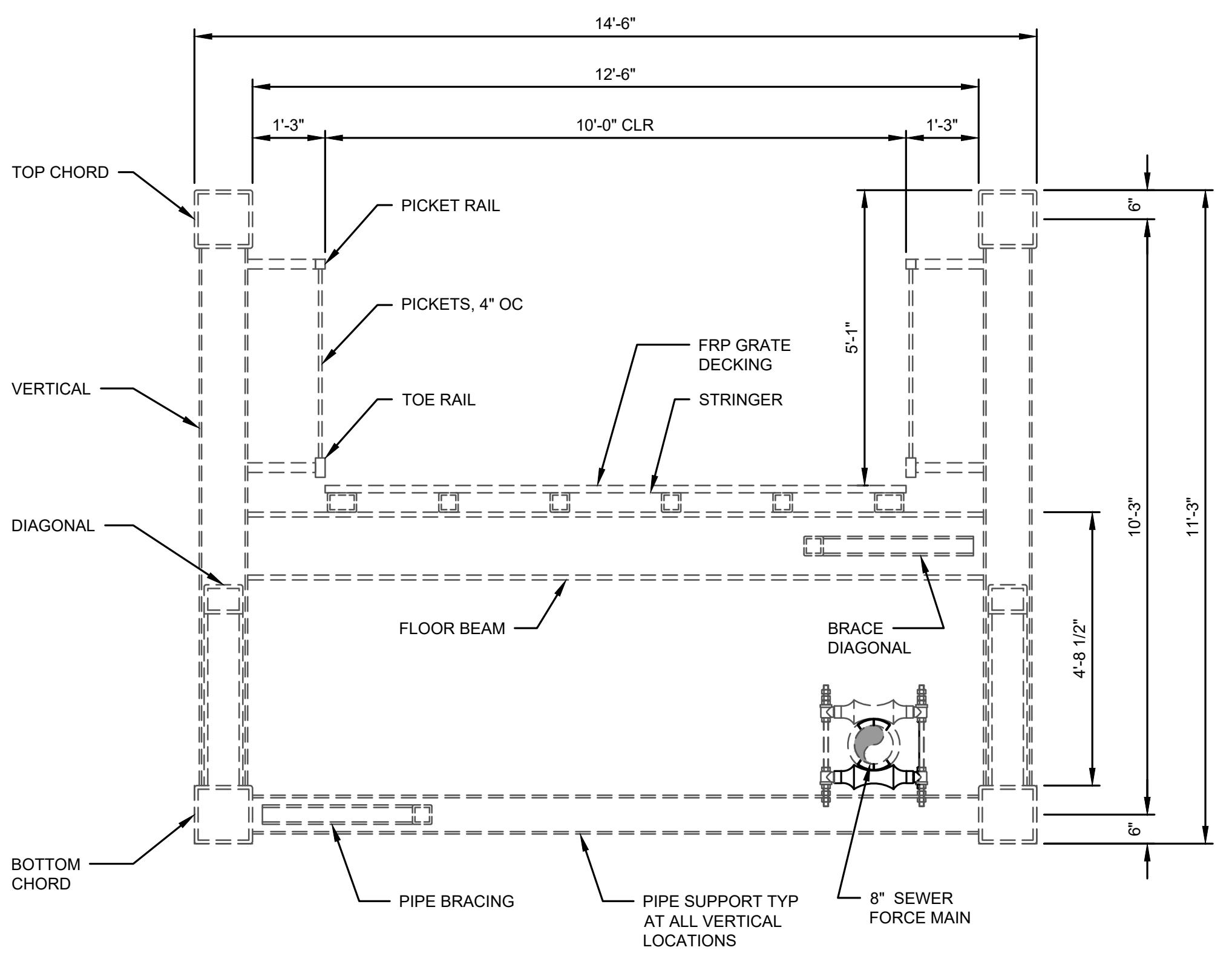
SCALE: 1/2"=1'-0"



## ABUTMENT 2 SECTION

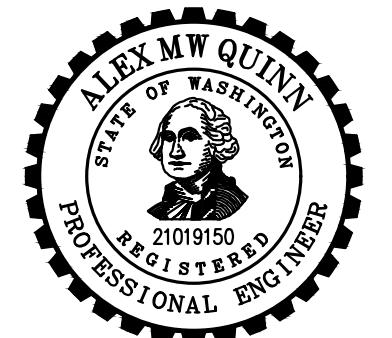
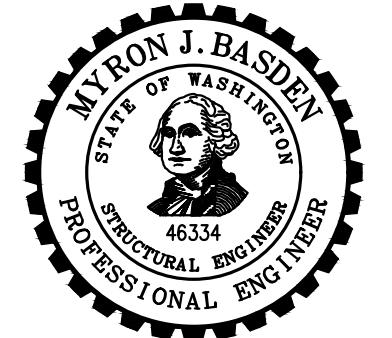
SCALE: 1/2"=1'-0"





**MAIN SPAN SECTION**  
S1-1

SCALE: 1/2"=1'-0"



**CITY OF  
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FILE:	S_BWALK_DET.DWG	
0	1"	2"
TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		

**MAIN SPAN WEST  
ABUTMENT SECTION,  
MAIN SPAN EAST  
ABUTMENT SECTION,  
AND DETAIL**

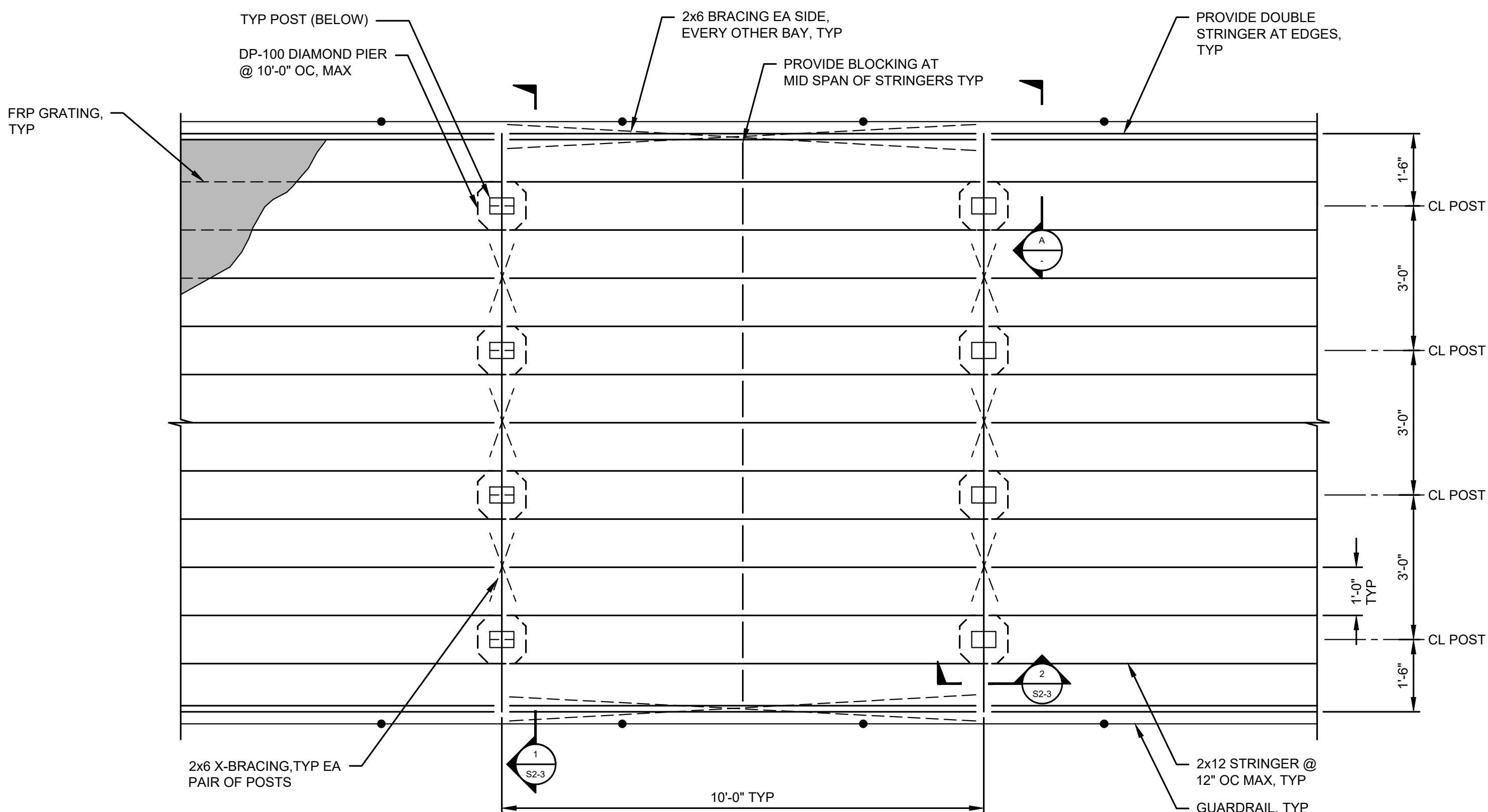


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G&O #:		24421.00
FILE: S2_RCRK_BRDG_PLN.DWG		
0	1"	2"
TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY.		

# BOARDWALK FRAMING PLAN, ELEVATION, AND DETAILS

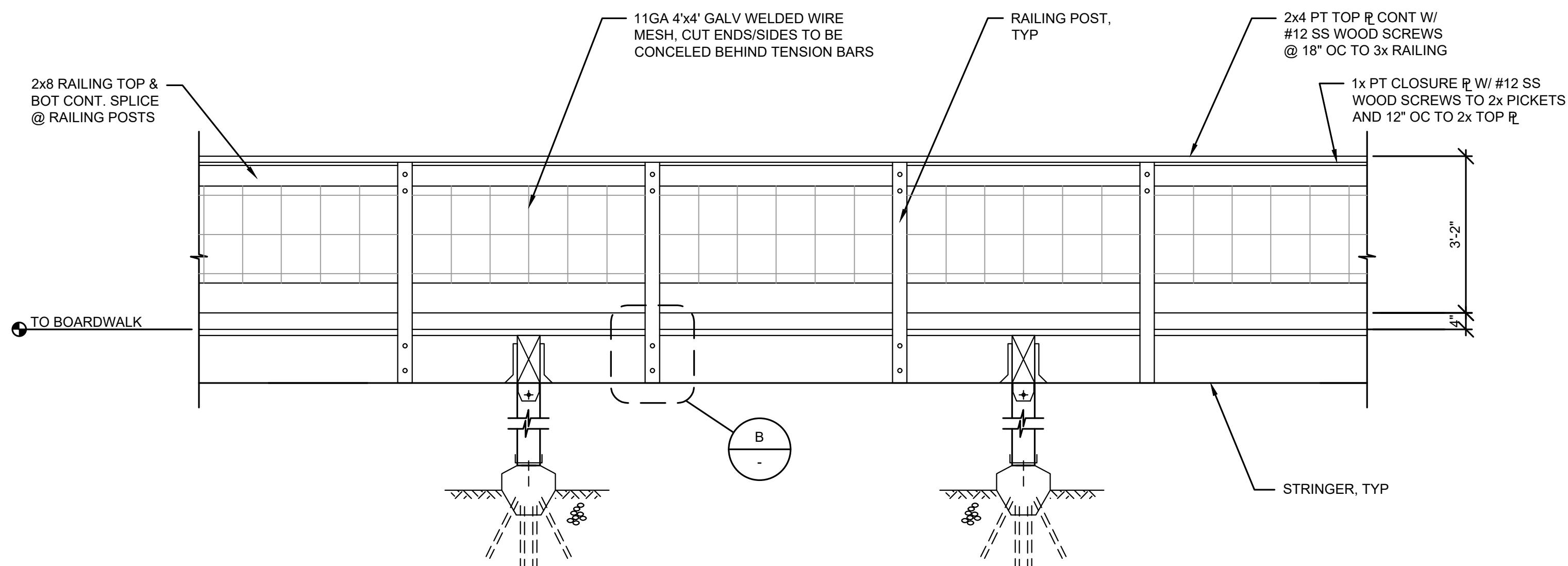
SHEET: **S2-1** OF: **2**



## **TYP BOARDWALK FRAMING PLAN**

---

SCALE: 1/2"=1



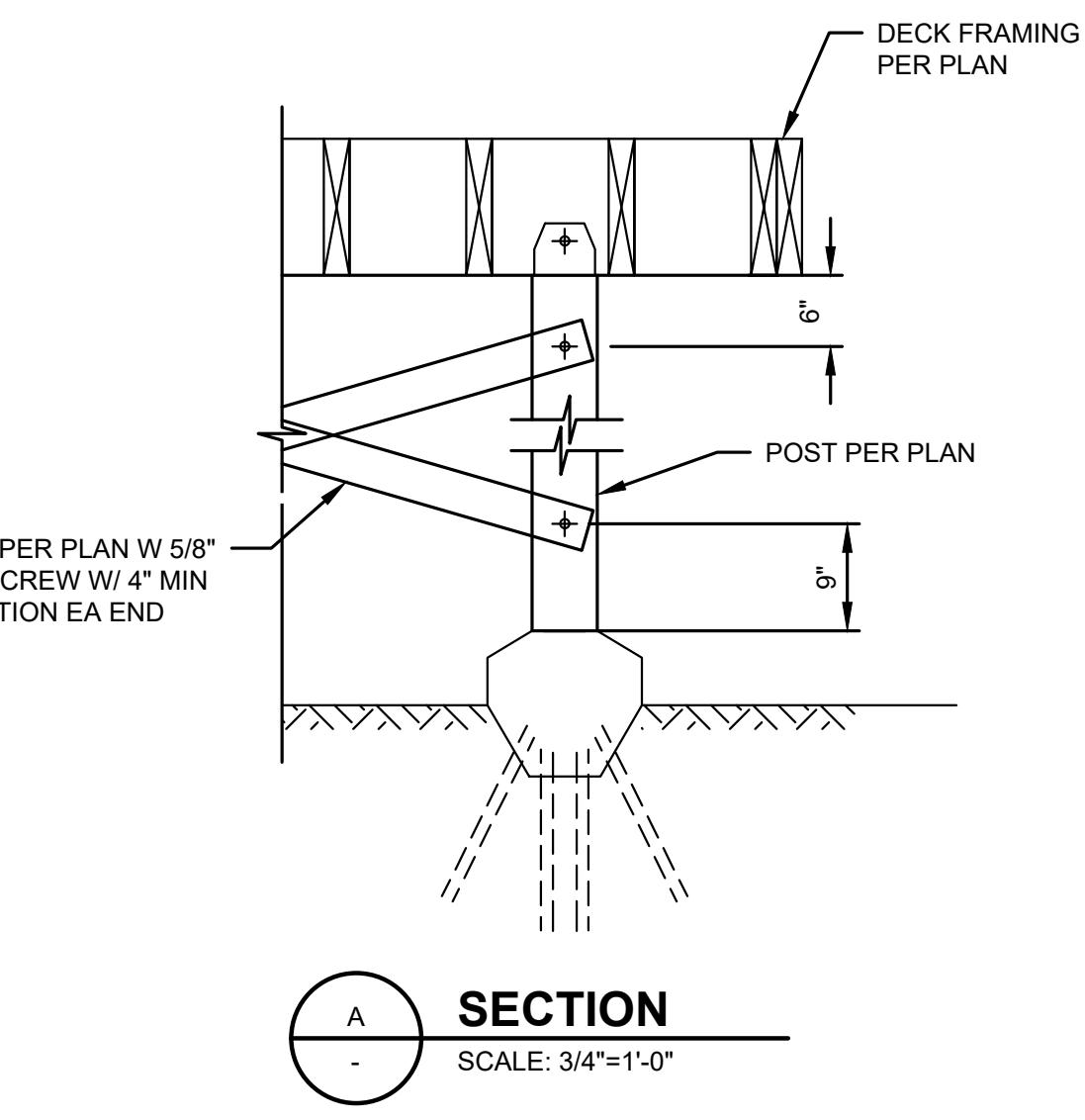
## BOARDWALK W/ WOOD RAILING ELEVATION

---

SCALE: 1/2"=1'-0"

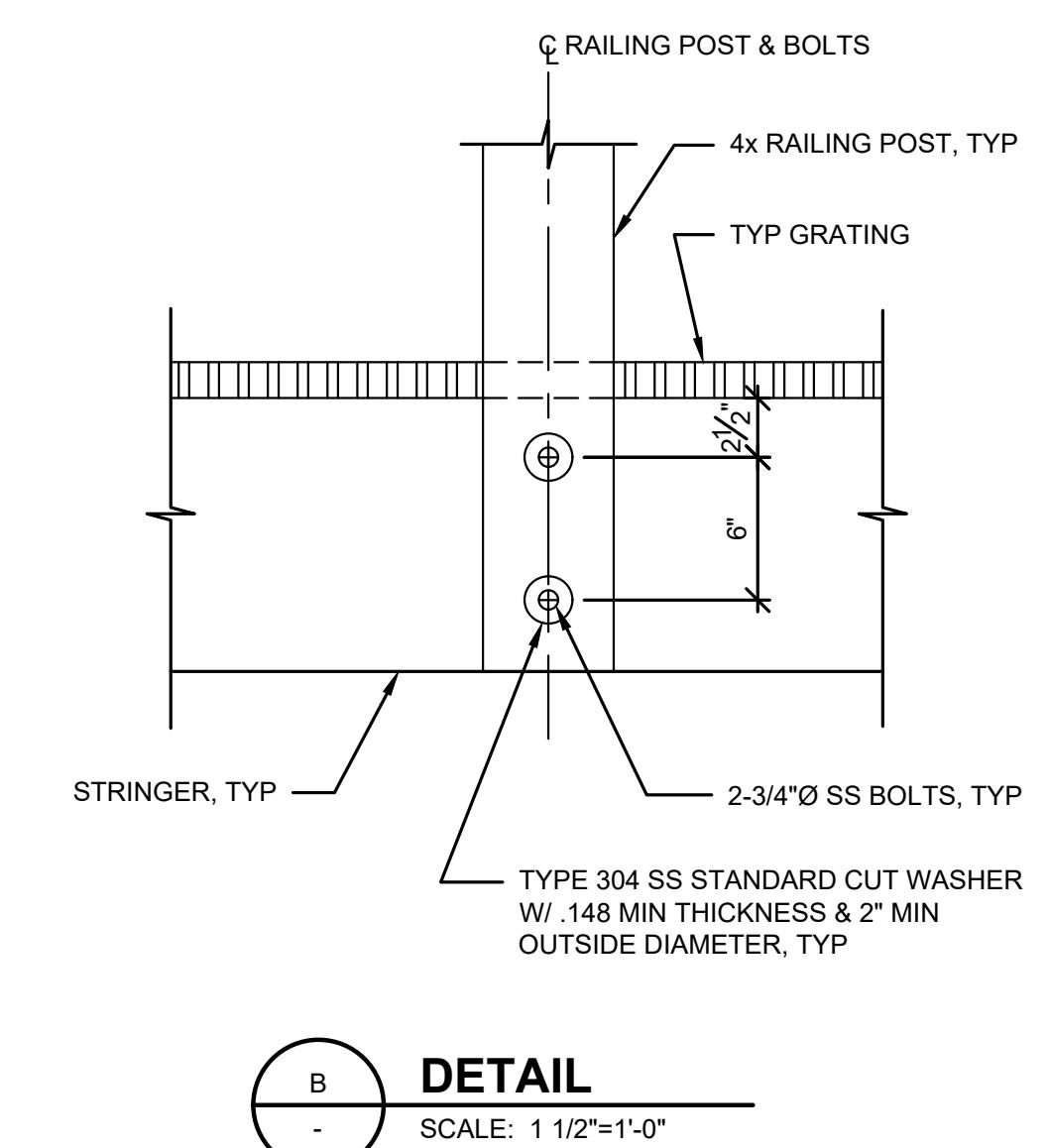
## NOTES

1. SEE SHEET S-1 GENERAL STRUCTURAL NOTES.
2. DIMENSIONS SHOWN ON STRUCTURAL PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.



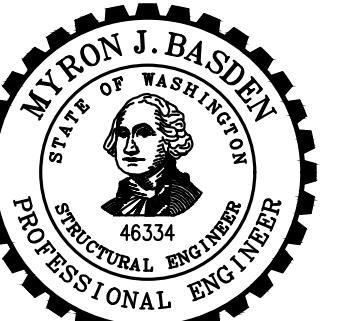
## A SECTION

SCALE: 3/4"=1'-0"



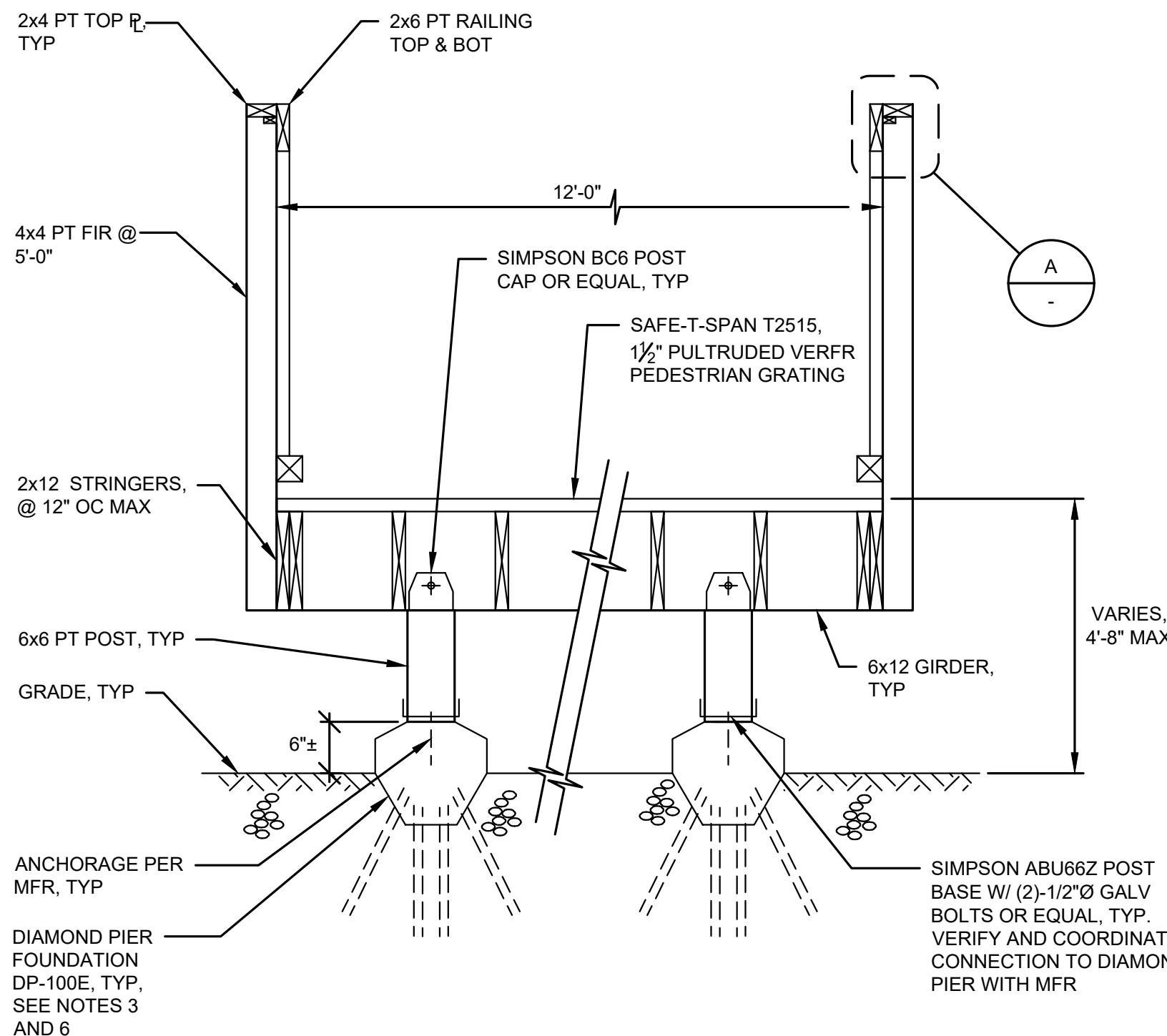
## B DETAIL

SCALE 1 1/2"=1



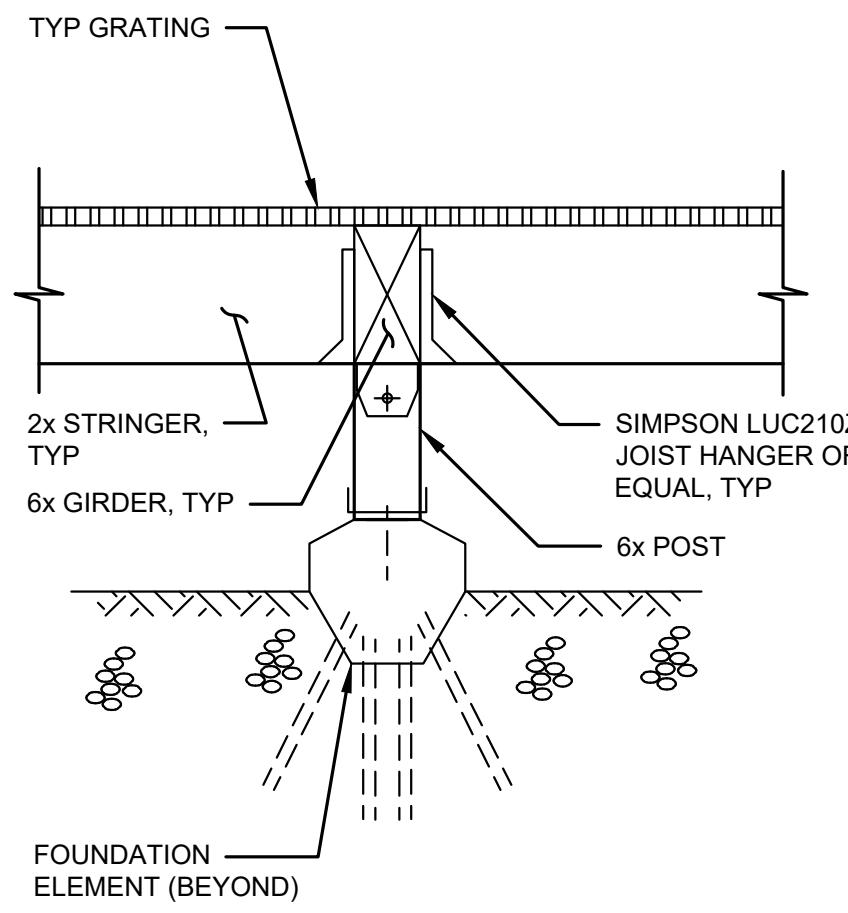
**CITY OF  
NORTH BEND**

**SR 202 SHARED-USE  
TRAIL EXTENSION**

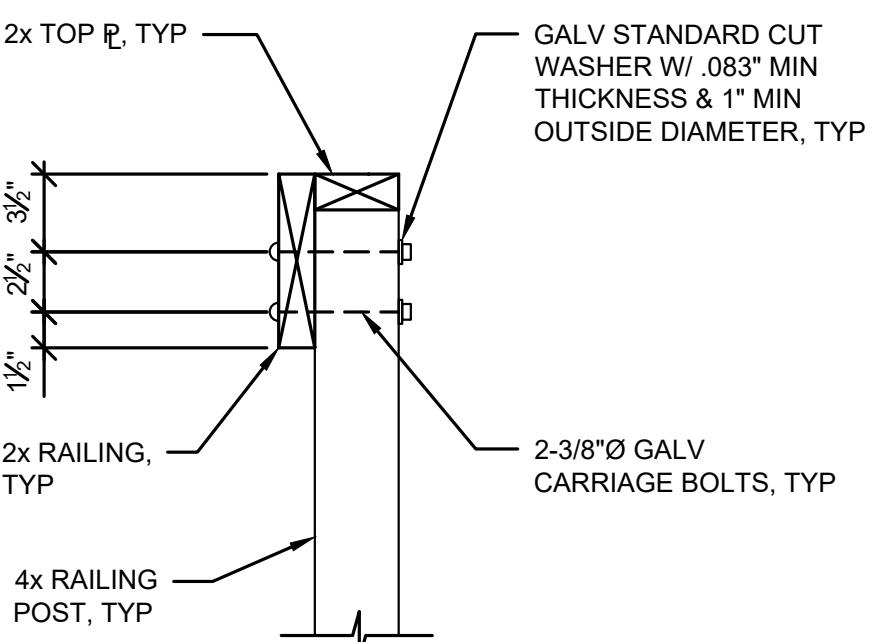


**TYPICAL DIAMOND PIER FOUNDATION  
BOARDWALK SECTION**

1  
S2-2  
SCALE: 3/4"=1'-0"



**SECTION**  
2  
S2-2  
SCALE: 3/4"=1'-0"



**DETAIL**  
A  
-  
S2-2  
SCALE: 1 1/2"=1'-0"

**NOTES:**

- SEE SHEETS S-1 AND S-2 FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
- DIMENSIONS SHOWN ON STRUCTURAL PLANS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- MAXIMUM SPACING OF FOUNDATION ELEMENTS ALONG THE LENGTH OF THE BOARDWALK SHALL BE 10'-0", TYPICAL, UNO.
- ALL FASTENERS AND FRAMING HARDWARE SHALL BE GALVANIZED.
- DIAMOND PIER DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR. DIAMOND PIER PILE CAPACITY IN COMPRESSION SHALL BE AT LEAST 3 KIPS.
- SEE C-SHEETS FOR LOCATIONS OF BOARDWALK SECTIONS.

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G&O #:	24421.00	
FILE:	S_BWALK_DET.DWG	
0	1"	2"
TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		

**BOARDWALK TYPICAL  
SECTION AND DETAILS**

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	20/25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.	HOST VEHICLE WEIGHT > 22,000 lbs.									
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH					
100'	123'	172'	74'	100'	150'					
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)				
SHOULDER WIDTH (feet)	Posted Speed (mph)			
	25	30	35	40
6'	40	40	60	60
8'	40	40	60	90
10'	40	60	90	90
12'	50	60	90	110
14'	50	70	100	125

USE A MINIMUM OF 3 DEVICES TAPER FOR SHOULDER LESS THAN 8'

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)				
LANE WIDTH (feet)	Posted Speed (mph)			
	25	30	35	40
10	105	150	205	270
11	115	165	225	295
12	125	180	245	320

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

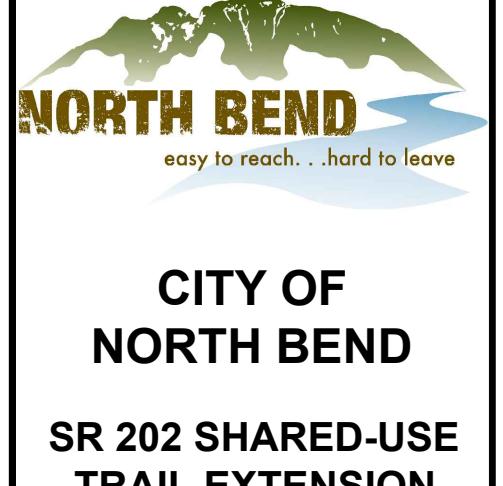
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

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

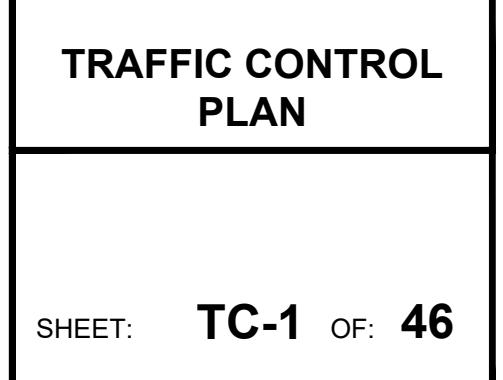
### NOTES:

- ALL SIGNS SHALL BE 48" X 48", UNLESS OTHERWISE SHOWN. ALL SIGNS SHALL BE BLACK ON ORANGE, UNLESS OTHERWISE SHOWN.
- SIGN SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.
- PROTECTIVE VEHICLE – FOR SPEEDS 40 MPH OR LESS, MAY USE A WORK VEHICLE STRATEGICALLY PLACED TO PROTECT WORK AREA.
- EXTEND CHANNELIZING DEVICE TAPER ACROSS SHOULDER.
- A MINIMUM 48" WIDE PEDESTRIAN ROUTE SHALL BE MAINTAINED AT ALL TIMES OR AN EQUIVALENT DETOUR ROUTE SHALL BE PROVIDED. ROUTE SHALL BE IN ACCORDANCE WITH WSDOT FIELD GUIDE FOR ACCESSIBLE PUBLIC RIGHT OF WAY.
- SIGN SPACING SHOWN ON THE PLANS MAY BE ADJUSTED IN THE FIELD TO ACCOMMODATE INTERSECTIONS, DRIVEWAYS, VISIBILITY AND OTHER FEATURES.
- ALL SIGNS NOT MOUNTED ON BARRICADES MAY BE MOUNTED ON TRIPODS IF CLEARLY VISIBLE TO TRAFFIC AND DO NOT OBSTRUCT MINIMUM WIDTH OF PEDESTRIAN ROUTE. OTHERWISE SIGNS SHALL BE MOUNTED ON 4"X4" WOOD POSTS. THE MINIMUM HEIGHT, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK, OF SIGNS INSTALLED ABOVE SIDEWALKS SHALL BE SEVEN (7) FEET.
- ALL CHANNELIZATION DEVICES SHALL BE CONES OR TUBULAR MARKERS UNLESS OTHERWISE SPECIFIED.
- PLANS SHOW MINIMUM SIGNAGE TO DIRECT VEHICULAR TRAFFIC AROUND THE CONSTRUCTION AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL ADDITIONAL SIGNAGE AND OTHER DEVICES NECESSARY TO SAFELY DIRECT VEHICULAR AND PEDESTRIAN TRAFFIC THROUGH AND AROUND THE CONSTRUCTION AREAS AS NECESSARY TO ACCOMMODATE CONSTRUCTION ACTIVITIES.
- LANE CLOSURES ARE ONLY ALLOWED PER SPECIFICATIONS.
- CONTRACTOR SHALL STAGE WORK TO MAINTAIN ACCESS TO AND EGRESS FROM ALL PROPERTIES AT ALL TIMES UNLESS OTHERWISE SPECIFIED. AT NO TIME SHALL A COMPLETE CLOSURE BE ALLOWED UNLESS OTHERWISE SPECIFIED OR EXPRESS PERMISSION PROVIDED BY THE ENGINEER.
- CONTACT AND COORDINATE WITH IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES. SEE SPECIAL PROVISIONS SECTION 1-07.
- IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" OR TURNED OFF DURING FLAGGING OPERATIONS OR TRAFFIC CONTROL PROVIDED BY UNIFORMED POLICE OFFICER (UPO).
- FOR SPEED LIMIT OF 30 MPH OR LESS USE SIGN W1-3 IN LIEU OF SIGN W1-4.
- FLAGGERS SHALL ESCORT PEDESTRIANS AS NEEDED FOR SAFETY.
- WHEN TRAFFIC IS DIRECTED ONTO GROOVED PAVEMENT, OVER AN ABRUPT BUMP OR NEXT TO AN ABRUPT LANE EDGE, THE W21-1701 SIGN SHALL BE USED TO WARN MOTORCYCLES OF THE CONDITIONS.
- ADA PATHWAYS SHALL BE MAINTAINED. IF WORKZONE IS IN THE SIDEWALK, A DEDICATED FLAGGER SHALL ESCORT PEDESTRIANS THROUGH THE WORK AREA. SEE SHEET TCS FOR MORE INFORMATION ON PEDESTRIAN TRAFFIC CONTROL.
- WHEN TRAFFIC CONTROL OBSTRUCTS PARKING, NO PARKING SIGNS SHALL BE INSTALLED 72 HOURS IN ADVANCE OF CLOSURE.
- IF TRAFFIC CONTROL OBSTRUCTS TRANSIT STOP, CONTRACTOR SHALL ATTEMPT TO KEEP TRANSIT STOP OPEN. IF NOT FEASIBLE TO KEEP TRANSIT STOP OPEN, CONTRACTOR SHALL COORDINATE WITH KING COUNTY METRO TO TEMPORARILY RELOCATE TRANSIT STOP. MINIMUM 10 DAYS NOTICE SHALL BE PROVIDED.
- SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- ROAD WORK AHEAD SIGNS SHALL BE INSTALLED ON ALL SIDE STREETS AND ALLEYS WHEN TRAFFIC CONTROL CROSSES THEM.
- TAPERS MAY CROSS DRIVEWAYS BUT MAY NOT CROSS INTERSECTING ROADWAYS.
- COVER EXISTING SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL.

TRAFFIC CONTROL NOTES  
WILL BE UPDATED BASED  
ON THE TRAFFIC  
CONTROL PLANS  
DEVELOPED FOR THIS  
PROJECT

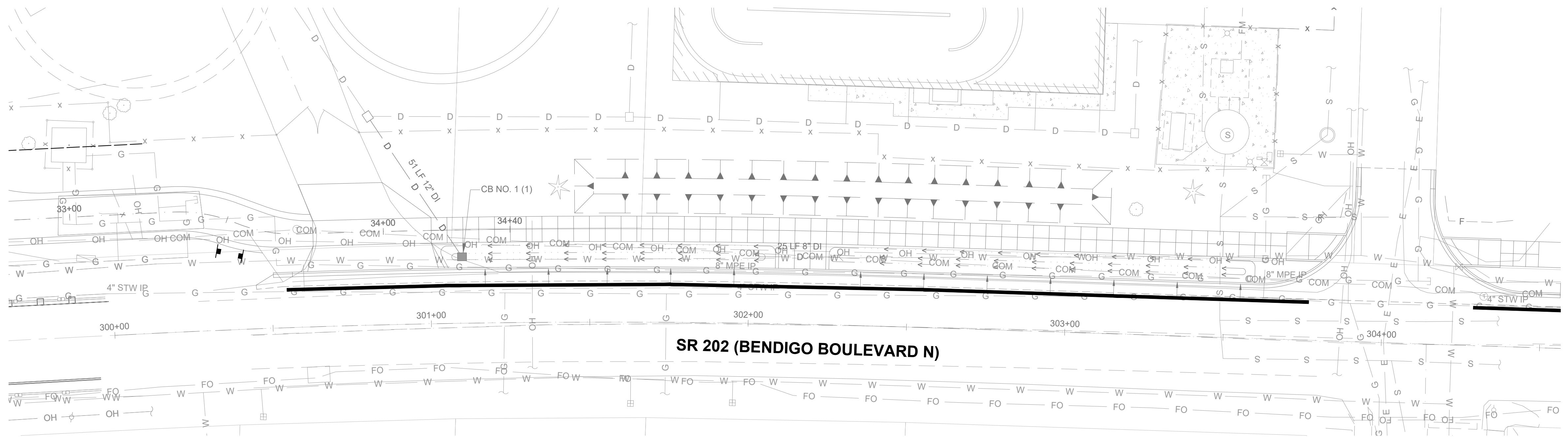
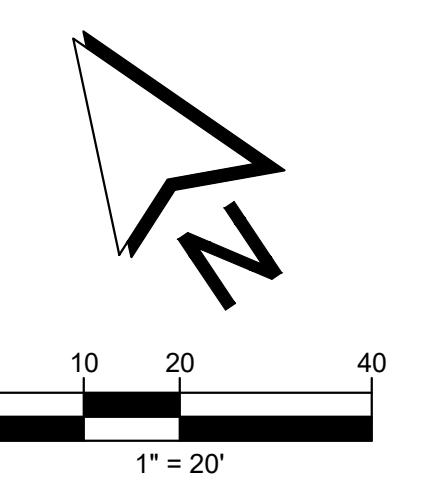


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0	1"	2"
TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		





**CITY OF  
NORTH BEND**  
SR 202 SHARED-USE  
TRAIL EXTENSION



**TRAFFIC CONTROL PLANS TO BE DEVELOPED WHERE THE  
WORK WILL IMPACT THE PUBLIC RIGHT-OF-WAY**

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FILE:	23-029_TC.DWG	
0 1" 2" TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY		

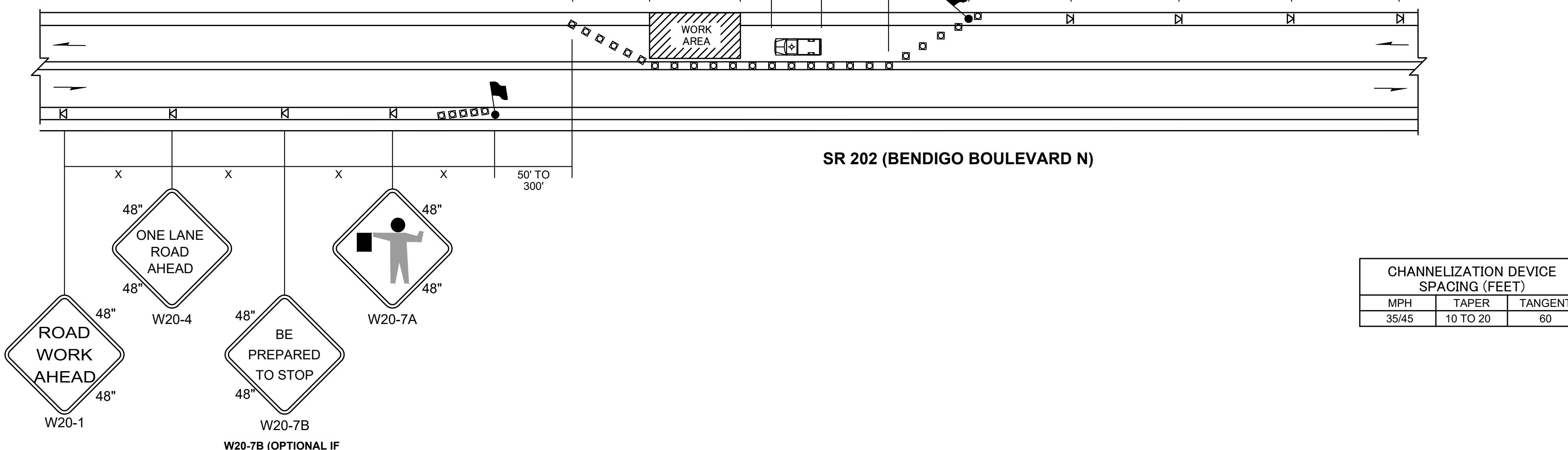
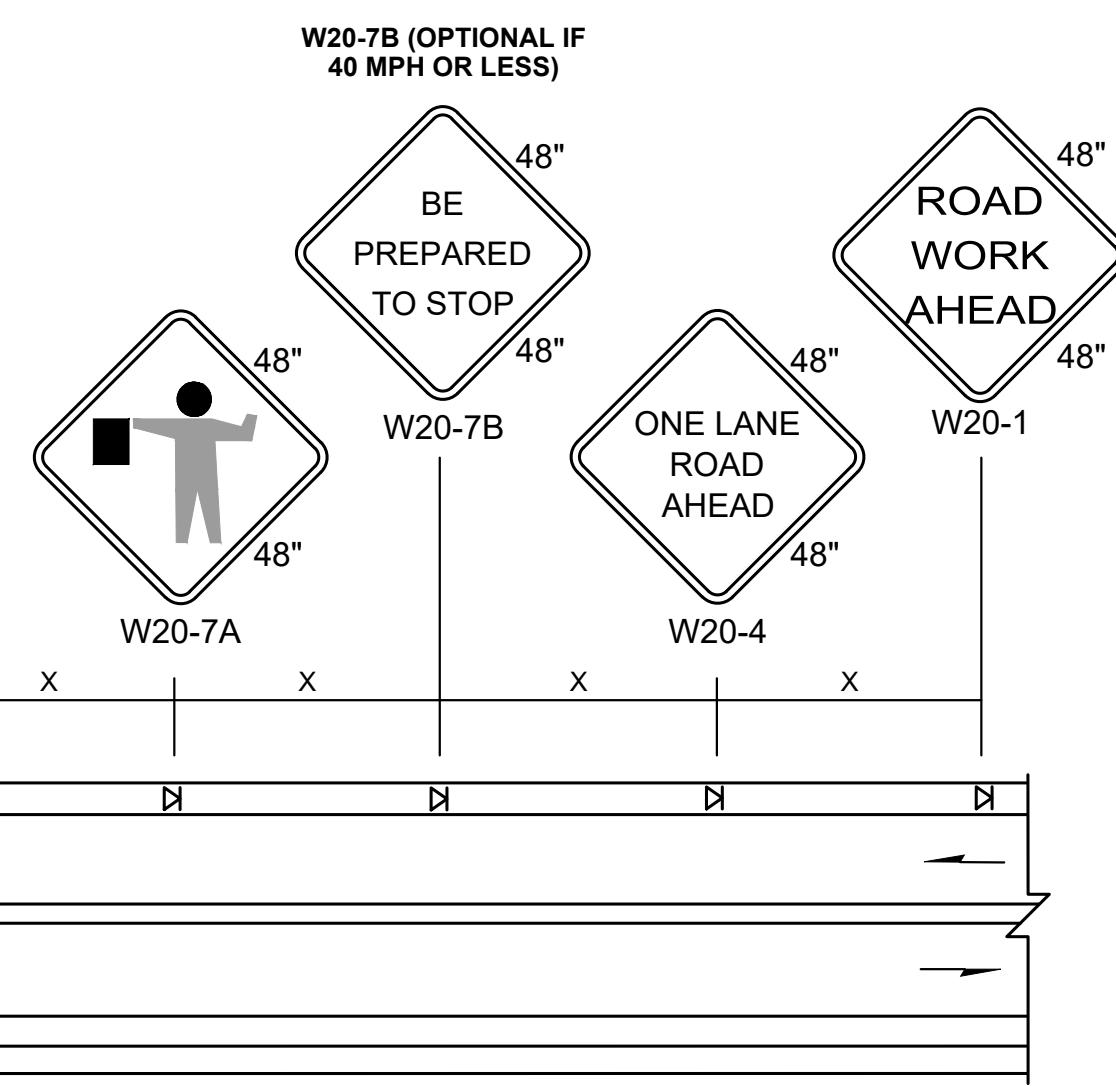
**TRAFFIC CONTROL  
PLAN**



**CITY OF  
NORTH BEND**  
**SR 202 SHARED-USE  
TRAIL EXTENSION**

BUFFER DATA	
LONGITUDINAL BUFFER SPACE = B	
SPEED (MPH)	35
LENGTH (feet)	250
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R	
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.	HOST VEHICLE WEIGHT > 22,000 lbs.
< 45 MPH	< 45 MPH
100'	74'
PROTECTIVE VEHICLE (WORK VEHICLE) = R	
NO SPECIFIED DISTANCE REQUIRED	

SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.		



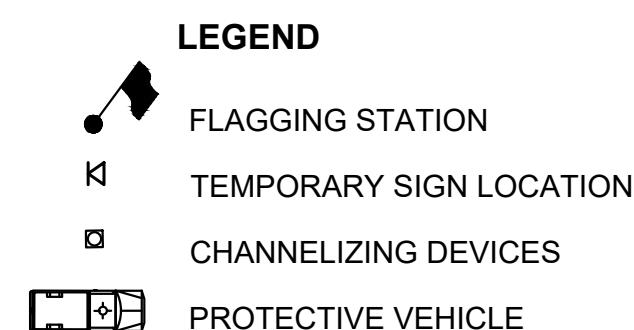
**SR 202 (BENDIGO BOULEVARD N)**

CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT

35/45 10 TO 20 60

**NOTES**

1. ALL SIGNS ARE BLACK ON ORANGE.
2. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
3. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE **STANDARD SPECIFICATIONS** FOR ADDITIONAL DETAILS.
4. SEE **SPECIAL PROVISIONS** FOR WORK HOUR RESTRICTIONS.



**ONE-LANE, TWO-WAY WITH FLAGGERS  
TRAFFIC CONTROL DETAIL**

NTS

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0 1" 2"		
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**TRAFFIC CONTROL PLANS**