

CITY OF WOODLAND

COWLITZ COUNTY

WASHINGTON



W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS

FEDERAL AID NO. RAIL-6876(001)
FEDERAL CONTRACT NO. TA-7391

CITY OFFICIALS

WILLIAM A FINN

Mayor

JOHN "JJ" BURKE

City Council

CAROL ROUNDS

MELISSA DOUGHTY

City Council

KARL CHAPMAN

DEEANNA HOLLAND

JENN ROWLAND

City Council

MONTE SMITH

PETER BOYCE

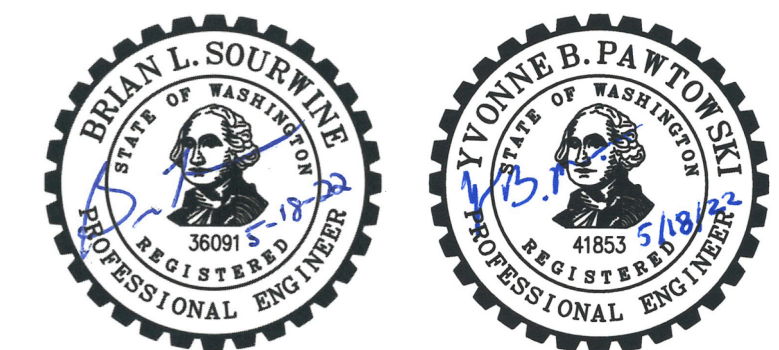
CITY ADMINISTRATOR

TIM SARVELA

PUBLIC WORKS SUPERINTENDENT

TRACY COLEMAN

PUBLIC WORKS DIRECTOR



REVIEWED AND
CONCURRED WITH:

CITY OF WOODLAND

05-19-22

DATE:



Gray & Osborne, Inc.

CONSULTING ENGINEERS

8513 NE HAZEL DELL AVENUE, SUITE 202
VANCOUVER, WASHINGTON 98665 (360) 571-3350

MAY 2022
G&O JOB #19624.04

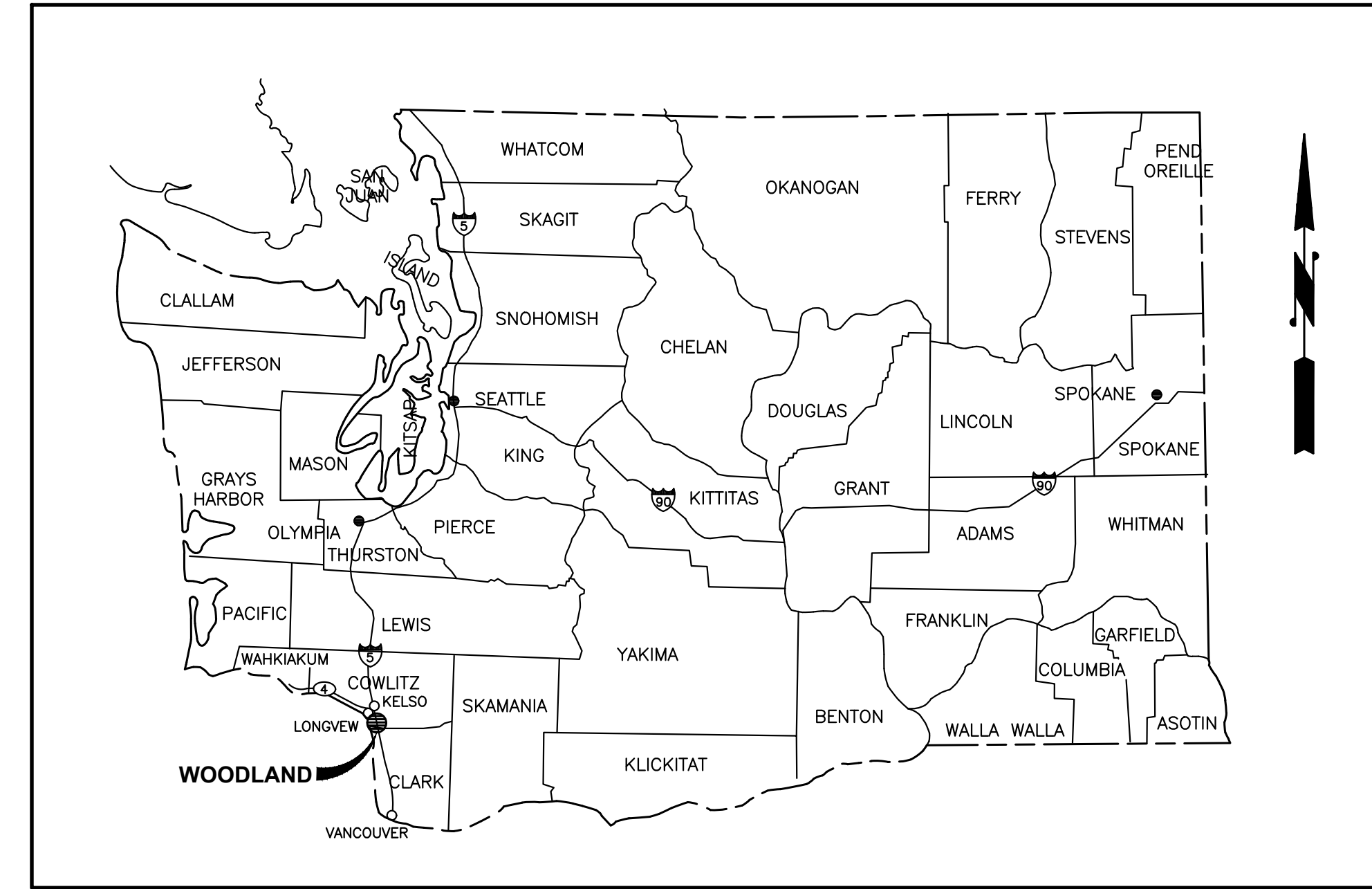
GENERAL NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL BE FURNISHED AND SUPPLIED IN ACCORDANCE WITH THE 2022 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, 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 BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH THE MUTCD. PRIOR TO DISRUPTION OF ANY TRAFFIC, TRAFFIC CONTROL PLANS SHALL BE PREPARED AND SUBMITTED TO THE CONTRACTING AGENCY FOR APPROVAL. NO WORK SHALL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL IS IN PLACE.
- CONTRACTOR SHALL NOTIFY BNSF ROADMASTER JARRELL WILLIAMS (Jarrell.Williams@BNSF.com, 360-989-6906) AT LEAST 30 CALENDAR DAYS PRIOR TO ENTERING THE PROJECT SITE. BNSF FLAGGING IS REQUIRED ANY TIME WORK OCCURS WITHIN 25 FEET OF THE RAIL LINE.
- THE CONTRACTOR MUST NOT PILE OR STORE ANY MATERIALS, MACHINERY OR EQUIPMENT CLOSER THAN 25'-0" TO THE CENTER LINE OF THE NEAREST RAILWAY TRACK. MATERIALS, MACHINERY OR EQUIPMENT MUST NOT BE STORED OR LEFT WITHIN 250 FEET OF ANY HIGHWAY/RAIL AT GRADE CROSSINGS OR TEMPORARY CONSTRUCTION CROSSING, WHERE STORAGE OF THE SAME WILL OBSTRUCT THE VIEW OF A TRAIN APPROACHING THE CROSSING. PRIOR TO BEGINNING WORK, THE CONTRACTOR MUST ESTABLISH A STORAGE AREA WITH CONCURRENCE OF THE RAILWAY'S REPRESENTATIVE.
- PROTECTION OF THE ENVIRONMENT: NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

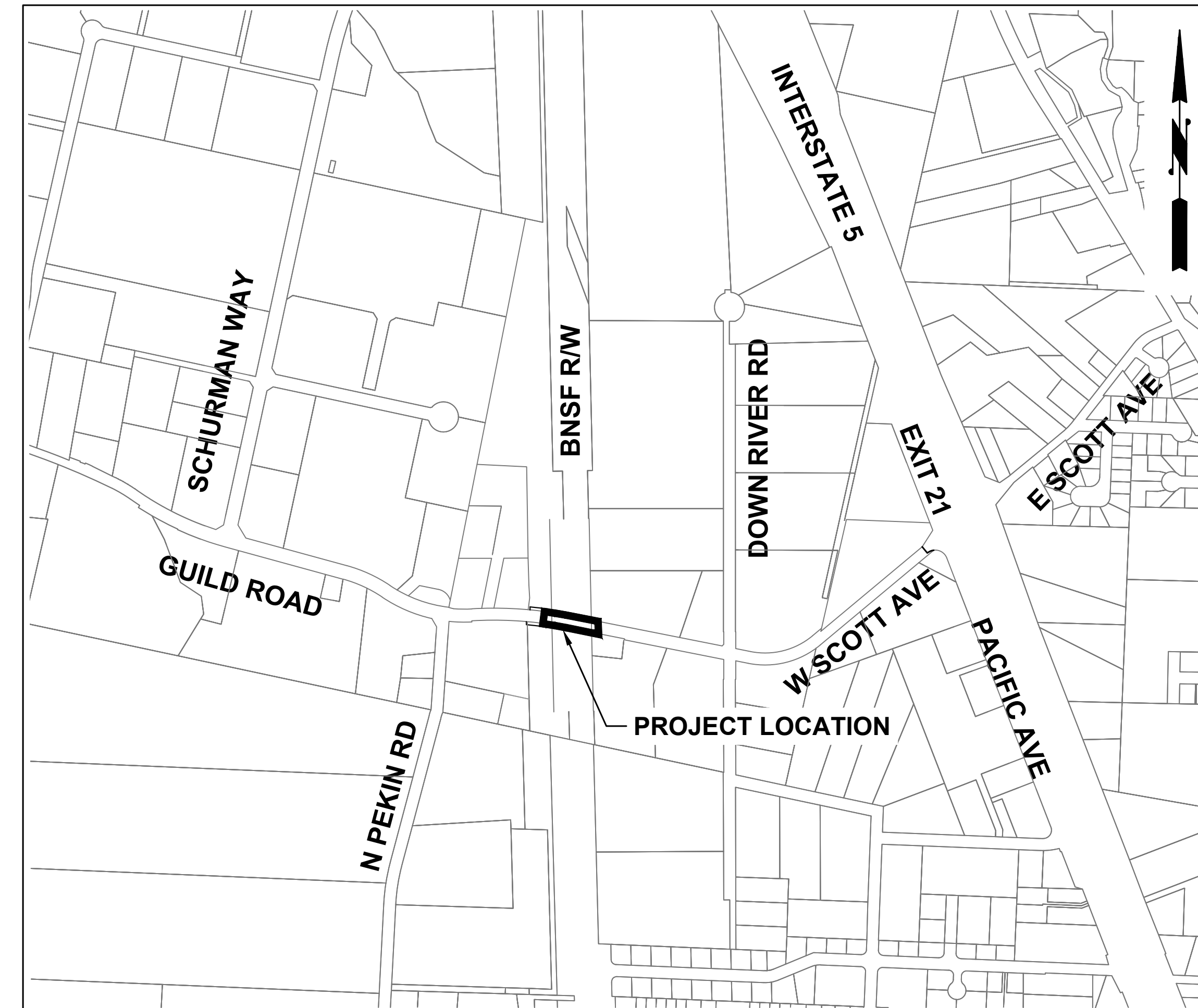
ORDER OF WORK

- ATTEND PRECONSTRUCTION MEETING.
- PROVIDE PROJECT SCHEDULE TO BNSF ROADMASTER.
- PROVIDE SUBMITTALS.
- CALL FOR LOCATES.
- PROVIDE PUBLIC NOTICE TO ABUTTING PROPERTY OWNERS.
- INSTALL TEMPORARY EROSION CONTROL AND TEMPORARY TRAFFIC CONTROL.
- INSTALL WALLS.
- COMPLETE REMAINDER OF THE WORK.
- PROVIDE RECORD DRAWINGS AND POST-CONSTRUCTION PHOTOS.

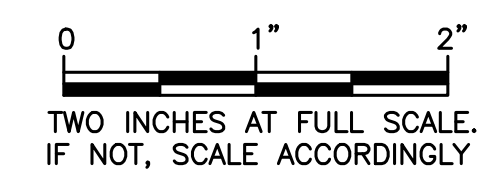
SHEET	DRAWING	DESCRIPTION
--	--	COVER
1	G-1	GENERAL NOTES, ORDER OF WORK, INDEX, VICINITY MAP AND LOCATION MAP
2	G-2	SYMBOL LEGEND AND ABBREVIATIONS
3	G-3	SURVEY CONTROL AND ALIGNMENT TABLE
4	G-4	SITE PREPARATION AND TESC PLAN
5	G-5	EROSION CONTROL DETAILS
6	C-1	WEST SCOTT AVENUE PLAN & PROFILE
7	C-2	TYPICAL CROSS SECTION AND RETAINING WALL DETAILS
8	C-3	RETAINING WALL AND FENCE DETAILS
9	C-4	RETAINING WALL PROFILE AND SECTIONS
10	C-5	RETAINING WALL PROFILE AND SECTIONS
11	C-6	CURB AND SIDEWALK GRADES
12	C-7	CURB AND SIDEWALK GRADES
13	CD-1	ROADWAY DETAILS
14	CD-2	ROADWAY DETAILS
15	CH-1	CHANNELIZATION AND SIGNING PLAN
16	CH-2	CHANNELIZATION AND SIGNING DETAILS
17	TC-1	TRAFFIC CONTROL DETAILS
18	TC-2	TRAFFIC CONTROL DETAILS



VICINITY MAP
NOT TO SCALE



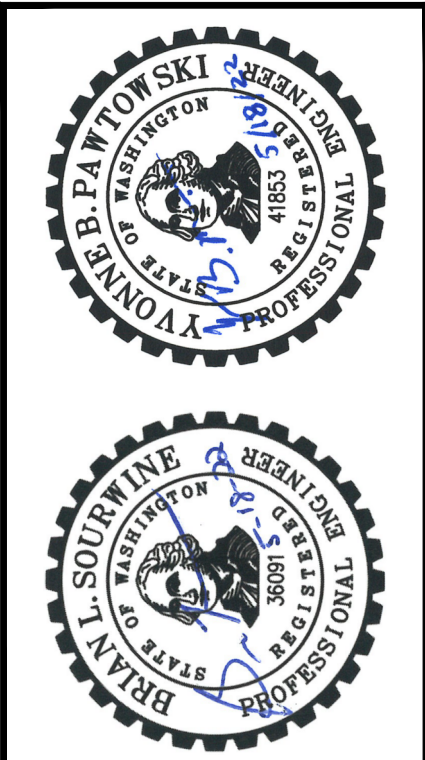
LOCATION MAP
SCALE: 1"=500'



Gray & Osborne, Inc.
 CONSULTING ENGINEERS
 1130 RAINIER AVENUE SOUTH, SUITE 300
 SEATTLE, WASHINGTON 98144 • (206) 264-0860

DATE: MAY 2022	YBP	TN	BLS
DRAWN:	CHECKED:	APPROVED:	

REVISION	DATE	APPD
No.		



CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
 GENERAL NOTES, ORDER OF WORK, INDEX, VICINITY MAP AND LOCATION MAP

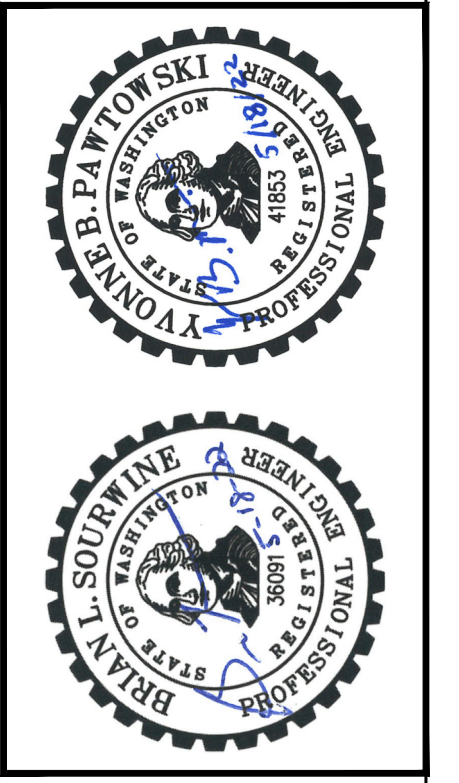
DRAWING: **G-1**
 SHEET: **1** OF: **18**
 JOB NO.: 19624.04
 DWG\INDEX

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CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
 SYMBOL LEGEND AND ABBREVIATIONS

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
BNSF	BURLINGTON NORTHERN SANTA FE
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
R/W	RIGHT-OF-WAY
RED	REDUCER
REINF	REINFORCE
REQD	REQUIRED
RET	RETAINING
RR	RAILROAD
S	SOUTH
SCH	SCHEDULE
SF	SQUARE FEET
SH	SHEET
SL	SLOPE
SPCS	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
		FENCE/RAILING (TYPE AS NOTED)
		FENCE WITH SWING GATE
		EDGE OF LANDSCAPING
		SILT FENCE
		RAILROAD
SURVEY		
		RIGHT-OF-WAY LINE
		CENTERLINE OF CONSTRUCTION
		PROPERTY LINE
		PERMANENT EASEMENT LINE
		CONTOUR LINE
		APPROXIMATE TOE OF FILL
UTILITIES		
		OVERHEAD UTILITIES
		BURIED ELECTRICAL
		BURIED TELEPHONE/COMMUNICATIONS
		BURIED FIBER-OPTIC LINE
		GAS MAIN (SIZE AS NOTED)
		WATER MAIN (SIZE AS NOTED)
		CULVERT (SIZE & TYPE AS NOTED)
		DITCH CENTERLINE/THALWEG

WATER SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		GUARD POST
		WATER METER
FIRE HYDRANT		
		FIRE HYDRANT (3-NOZZLE)
VALVES		
		AIR RELIEF VALVE
		BLOW-OFF VALVE
		GATE VALVE

GAS/POWER/TELEPHONE SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		POWER VAULT (SIZE VARIES)
		UTILITY POLE
		UTILITY POLE ANCHOR
		UTILITY PEDESTAL

SURVEY SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		MONUMENT (IN CASE)
		MONUMENT (SURFACE)
		IRON PIPE / REBAR
		TAX LOT/PARCEL NUMBER

SIGNALIZATION/ILLUMINATION SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
DETECTORS		
		JUNCTION BOX (TYPE I, II, VIII)
		R/R CROSSING GATE
		R/R CROSSING SIGNAL
		ELECTRIC SERVICE AND CABINET
		LIGHT/LUMINAIRE POLE W/ARM

SANITARY/STORM SEWER SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		STORM DRAIN CATCH BASIN, CONCRETE INLET, OR YARD/AREA DRAIN
		SANITARY SEWER MANHOLE
		CLEAN OUT (SAN. SEWER OR STORM)

CHANNELIZATION SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		RAILROAD CROSSING

SURFACE FEATURES/LANDSCAPING

EXISTING	PROPOSED	DESCRIPTION
		MAIL BOX (NOTED)
		SIGN
		ROCKERY
		MODULAR BLOCK WALL
		SEGMENTAL BLOCK WALL
		SHRUB
		TREE (CONIFER)
		TREE (DECIDUOUS)
		WETLAND

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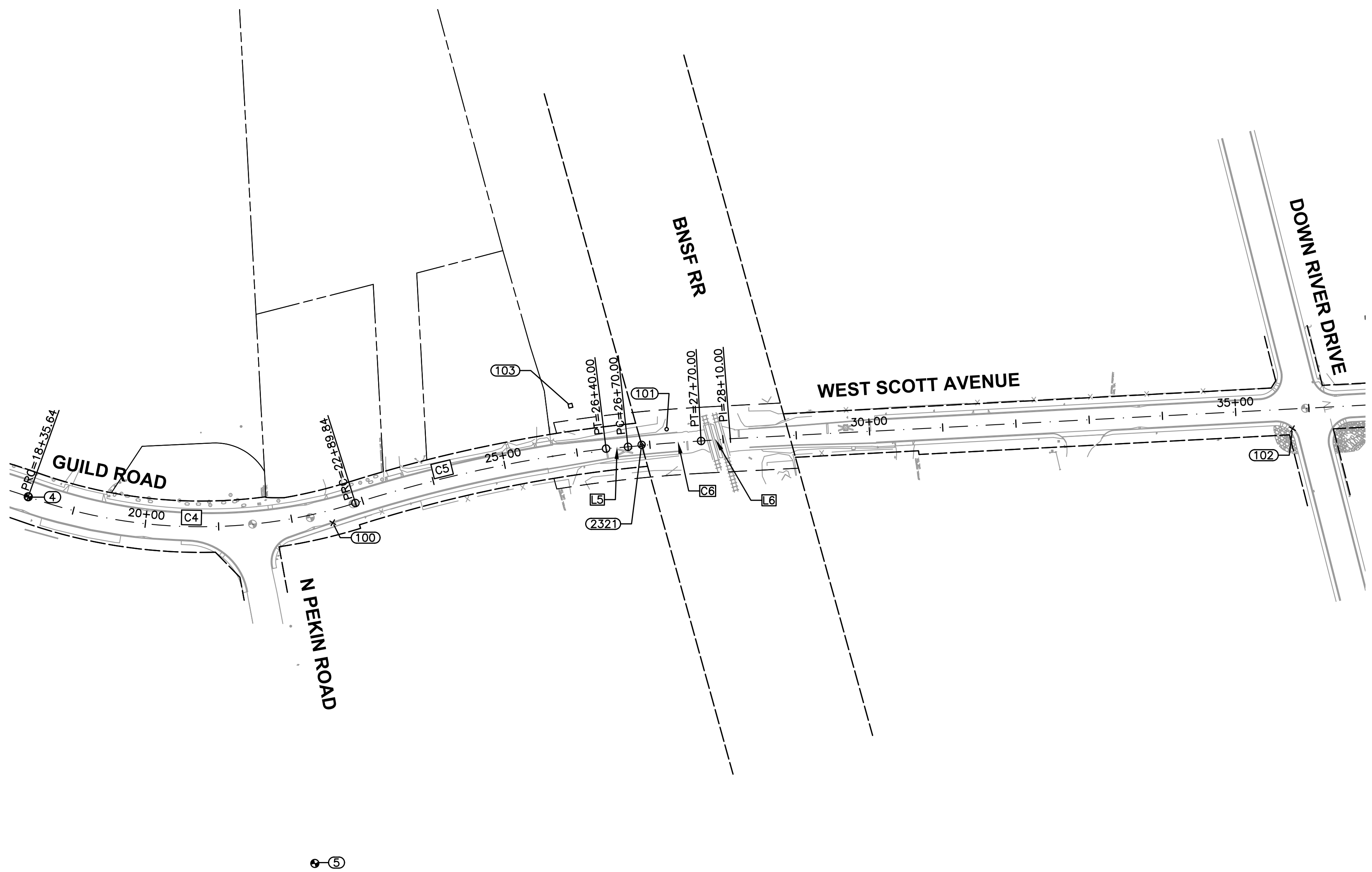
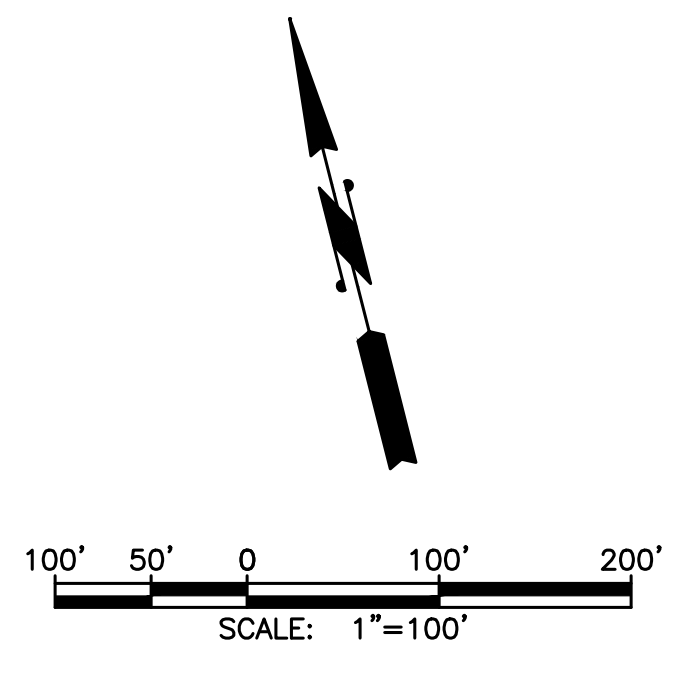
COWLITZ COUNTY
 FED. AID NO.: RAIL-6876(001)
 SECTION 46, T5N, R1W

GUILD ROAD AND WEST SCOTT AVENUE - CONSTRUCTION CENTERLINE ALIGNMENT												
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	END STATION	END NORTHING	END EASTING	DISTANCE	BEARING	RADIUS	TANGENT	CURVE LENGTH	DELTA
C4	18+35.64	219,946.95	1,065,348.50	22+89.84	219,828.97	1,065,778.89			700.00	235.41	454.19	37°10'35"
C5	22+89.84	219,828.97	1,065,778.89	26+40.00	219,816.82	1,066,128.36			1,911.90	175.57	350.16	10°29'37"
L5	26+40.00	219,816.82	1,066,128.36	26+70.00	219,811.81	1,066,157.93	30.00	S80°22'34"E				
C6	26+70.00	219,811.81	1,066,157.93	27+70.00	219,795.05	1,066,256.51			1,909.00	50.01	100.00	3°00'05"
L6	27+70.00	219,795.05	1,066,256.51	28+10.00	219,788.27	1,066,295.93	40.00	S80°14'03"E				

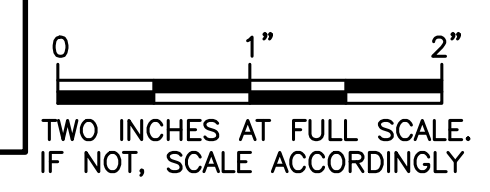
Horizontal Datum: NAD83/2011
 WSPCS SOUTH ZONE, GRID NORTH
 MODIFIED GROUND COORDINATES, AVG CGF=0.99998486194, SCALED TO GROUND AT G+O 1, WSDOT/NGS "X 533"

Vertical Datum: NAVD88
 HOLDING WSDOT/NGS PUBLISHED ELEV FOR "X 533"

POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
1	218625.57	1069053.35	30.07	SFMC=FOUND MONUMENT IN CASE, WSDOT MON "NGS X533" 1/2" DIA ROD W/PUNCH. DOWN 2.25'
4	219946.93	1065348.50	24.71	SFMC, 2" DISC W/PUNCH IN 3" PIPE, 0.35' MD. CL GUILD RD/TURN LANE. IN LARGE CASE. 18' N-NE OF DCB. -30' E OF SWMH. 66' W OF CL DWAY "NORTHERN ENERGY PROPANE"
5	219366.14	1065604.40	24.51	SFMC, 5/8" REBAR W/YPC AND TACK, "COWLITZ COUNTY". N. PERKIN RD. 4' E OF DBL YEL CL. -15' W-NW OF WV. -24' W-NW OF PP
100	219810.47	1065742.35	26.69	SSN=SURVEY SET NAIL, IN SEAM BETWEEN TBC/RWE. S SIDE W.SCOTT AVE. -12' W OF CL DWAY(N. SIDE) #1350. -24' E OF DCB
101	219822.16	1066214.85	35.21	SSRC, NORTH SIDE RD. 6' N OF RCE. W SIDE GRAVEL RD ON W SIDE RR TRACKS.
102	219613.04	1067042.29	28.33	SSN, SW CORNER W SCOTT AND DOWN RIVER. IN TOP OF CURB SEAM. SE OF ADA RAMP.
103	219885.56	1066095.66	25.21	SSHT=SET HUB W/ TACK, W/ MAG NAIL AND TAG. -12.5' W OF EDGE VEG ON W SIDE RR TRACKS. -27' E OF E EDGE GRAVEL DWAY #1302. -34' N44E OF POWER POLE.
2321	219810.00	1066176.65	33.25	SFM, 2" ALUM. DISC, W/PUNCH (ILLEGIBLE) AT SURFACE.



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.



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Gray & Osborne, Inc.
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 SEATTLE, WASHINGTON 98144 • (206) 264-0860

DATE: MAY 2022	YBP	TN	RB
DRAWN:	CHECKED:	APPROVED:	

No.	REVISION	DATE	APPD

Professional Engineer Seal for Yvonne Pawtowski, License No. 41853, State of Washington.

Professional Engineer Seal for Richard A. Bond, License No. 40097, State of Washington.

CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
 SURVEY CONTROL AND ALIGNMENT TABLE

DRAWING: **G-3**
 SHEET: **3** OF: **18**
 JOB NO.: 19624.04
 DWG:CONTROL

COWLITZ COUNTY
 FED. AID NO.: RAIL-6876(001)
 SECTION 46, T5N, R1W

Gray & Osborne, Inc.
 CONSULTING ENGINEERS
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DATE: MAY 2022	YBP	TN	BLS
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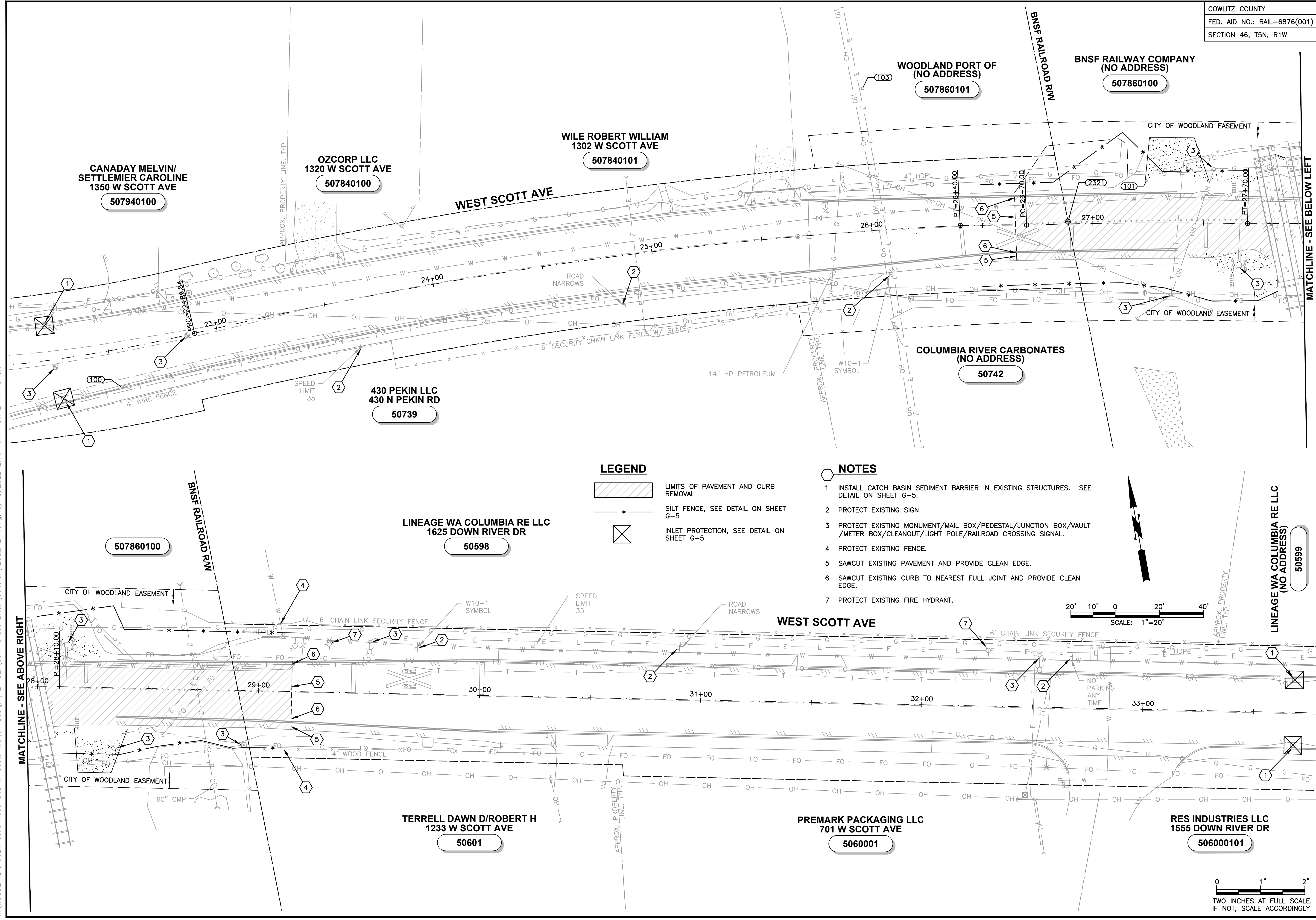
NO.	REVISION	DATE	APPD

YVONNE PAWTOWSKI
 ENGINEER
 WASHINGTON STATE PROFESSIONAL ENGINEER
 LICENSE NO. 41853

BRIAN SOUTHWINE
 ENGINEER
 WASHINGTON STATE PROFESSIONAL ENGINEER
 LICENSE NO. 36091

CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
 SITE PREPARATION AND TESC PLAN

DRAWING: **G-4**
 SHEET: **4** OF: **18**
 JOB NO.: 19624.04
 DWG:TESC_PLAN



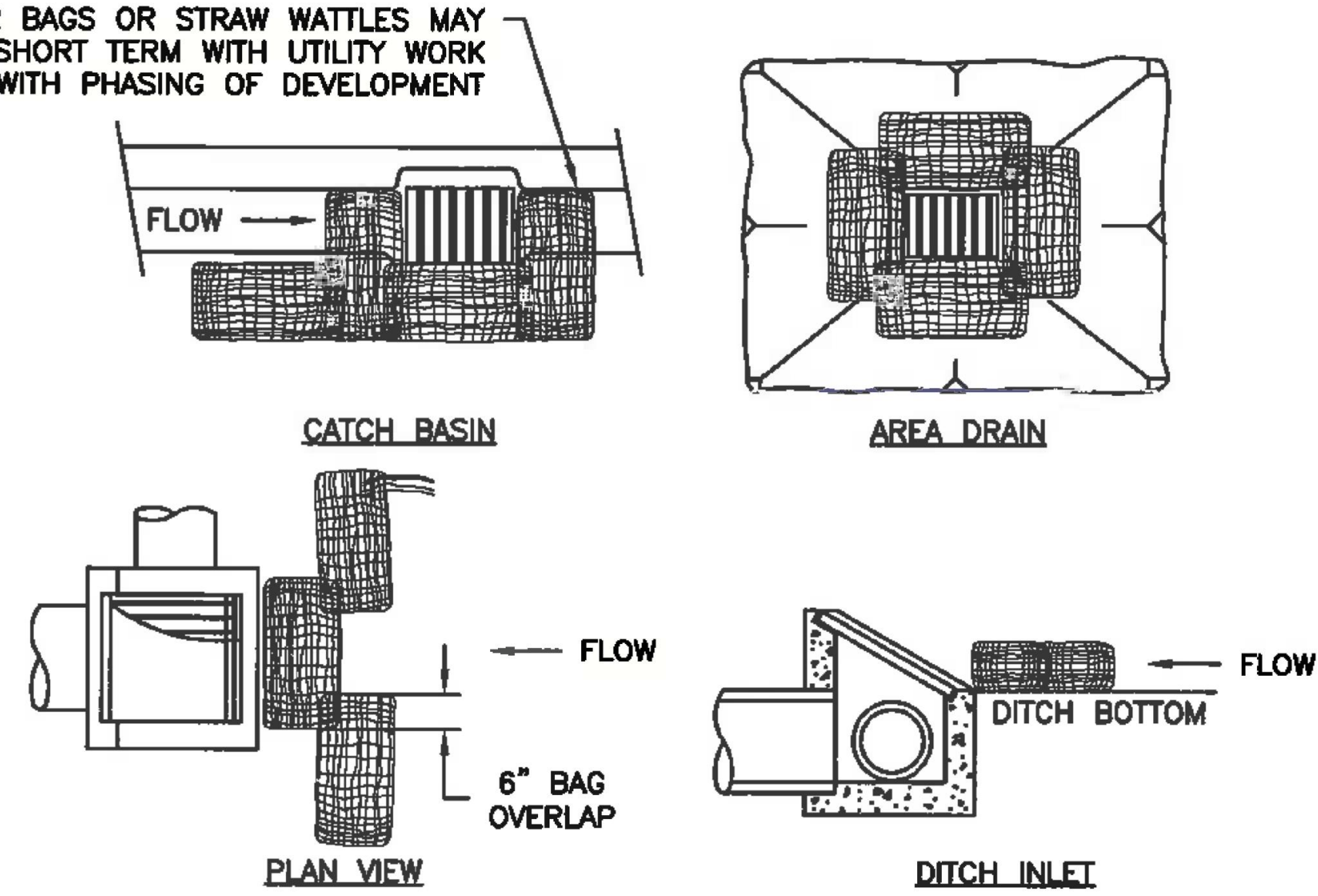
M:\WOODLAND\19624 Guild Road and W. Scott Ave\01 Design\PLANSET\00-PlanSet-BNSF\General\TESC_PLAN.dwg, 5/18/2022 2:16 PM, YVONNE PAWTOWSKI

MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ABOVE RIGHT

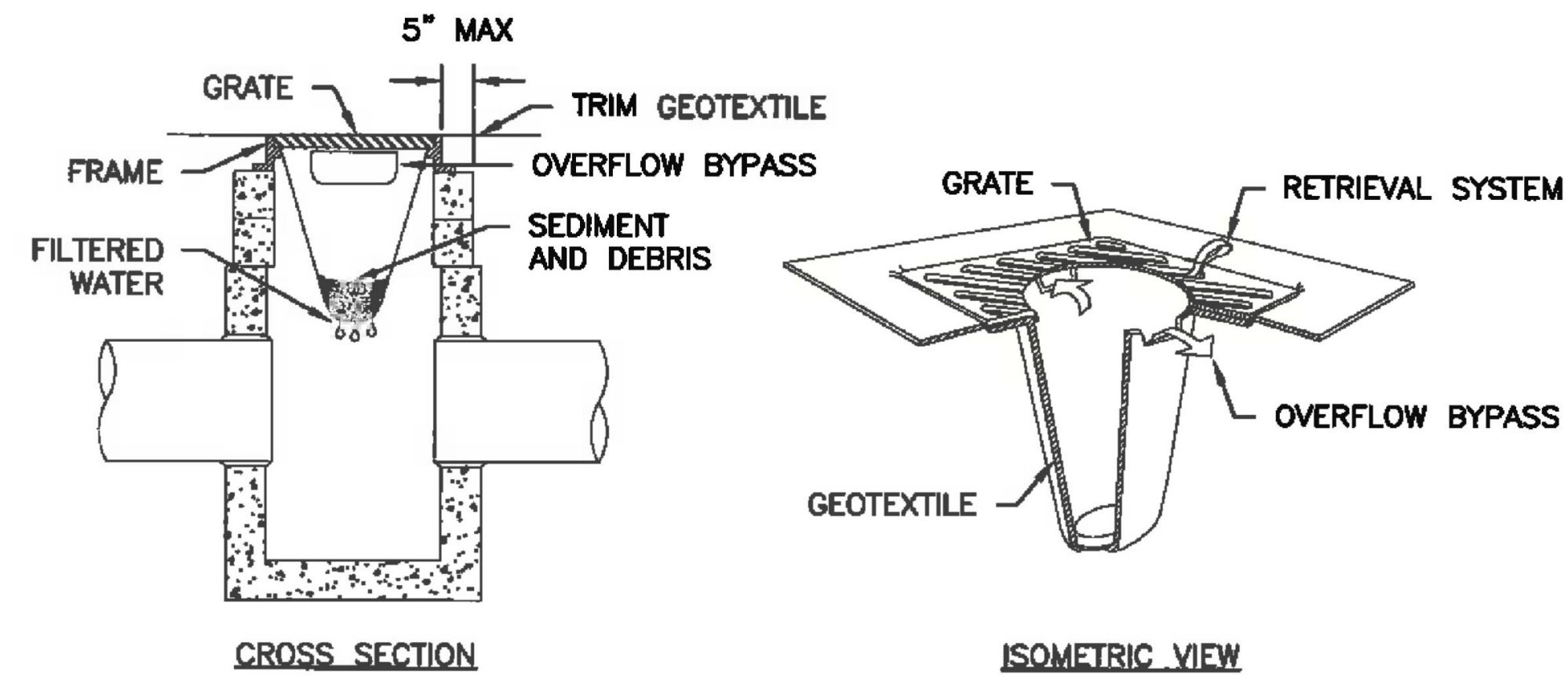
DATE: MAY 2022	YBP	TN	BLS
DRAWN:		CHECKED:	APPROVED:

BIO-FILTER BAGS OR STRAW WATTLES MAY BE USED SHORT TERM WITH UTILITY WORK AND WITH PHASING OF DEVELOPMENT



NOTES:

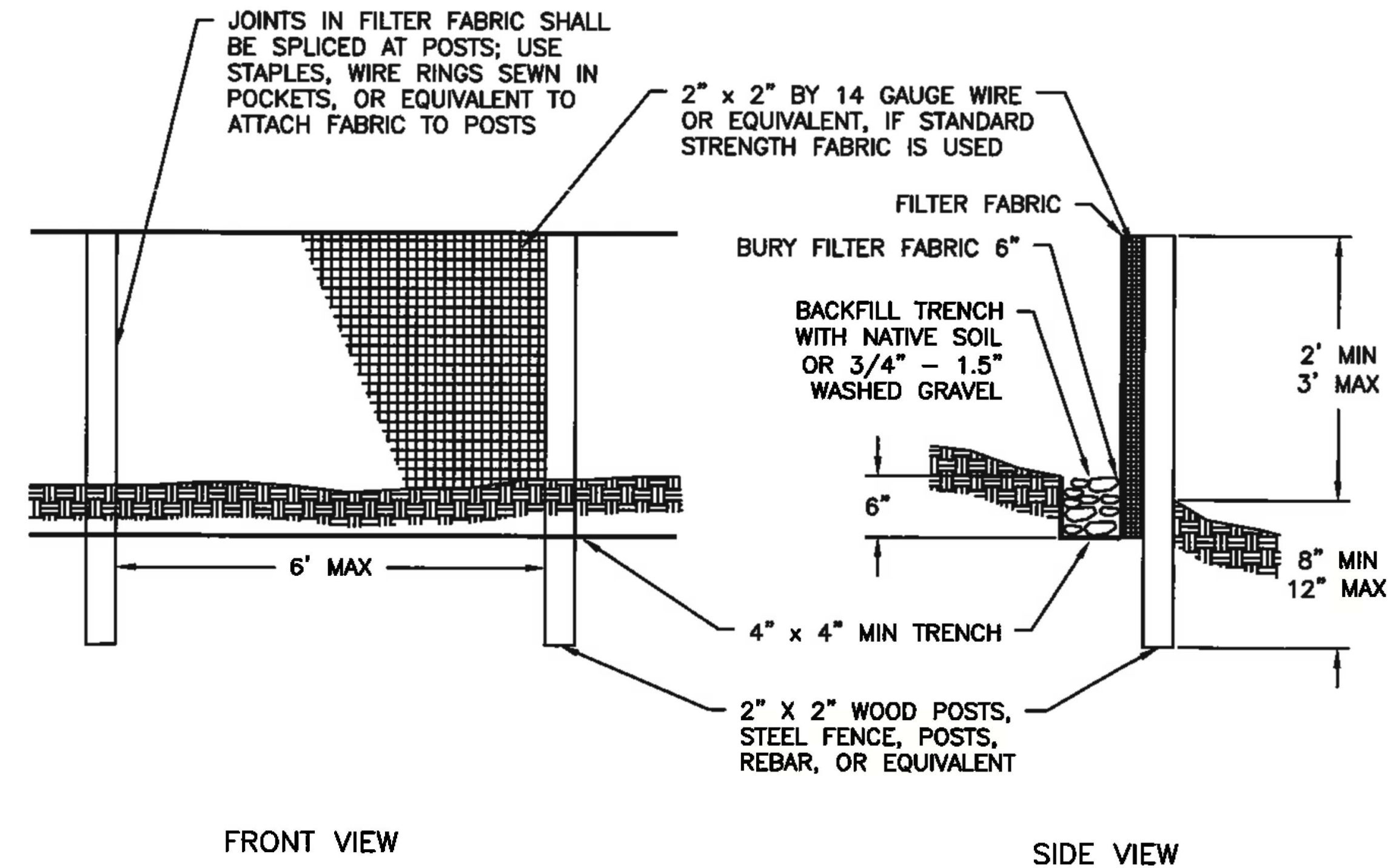
1. ADDITIONAL MEASURES MUST BE CONSIDERED DEPENDING ON SOIL TYPE.
2. BIO-FILTER BAGS SHOULD BE STAKED WHERE APPLICABLE USING (2) 1" x 2" WOODEN STAKES OR APPROVED EQUAL PER BAG.
3. STRAW WATTLES MUST BE STABILIZED BY ATTACHING WIRE CLIPS TO THE CATCH BASIN PER MANUFACTURER SPECIFICATIONS.
4. INLET PROTECTION MUST BE REGULARLY INSPECTED BY THE EROSION CONTROL INDIVIDUAL TO INSURE PROPER PLACEMENT/FUNCTION AND MAINTENANCE.



NOTES:

1. SIZE THE BELOW GRATE INLET DEVICE (BGID) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
2. THE REMOVAL SYSTEM MUST ALLOW REMOVAL OF THE BGID WITHOUT SPILLING THE COLLECTED MATERIAL.
3. THE BGID SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
4. THE CONTRACTOR SHALL INSPECT THE BAG AFTER EACH STORM EVENT AND AT REGULAR INTERVALS.
5. THE FILTER BAG SHALL BE CLEANED OR REPLACED WHEN THE BAG BECOMES HALF FULL.

	INLET PROTECTION (1 OF 2)				E-16
	APPROVED MODIFIED	REVISIONS	DATE	DRAWN	



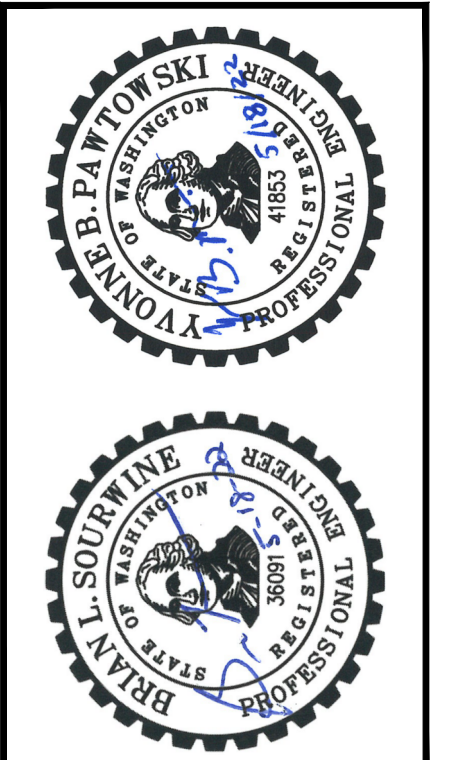
NOTES:

1. FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.
2. POST SPACING MAY BE INCREASED TO 8' IF WIRE BACKING IS USED.

MAINTENANCE STANDARDS:

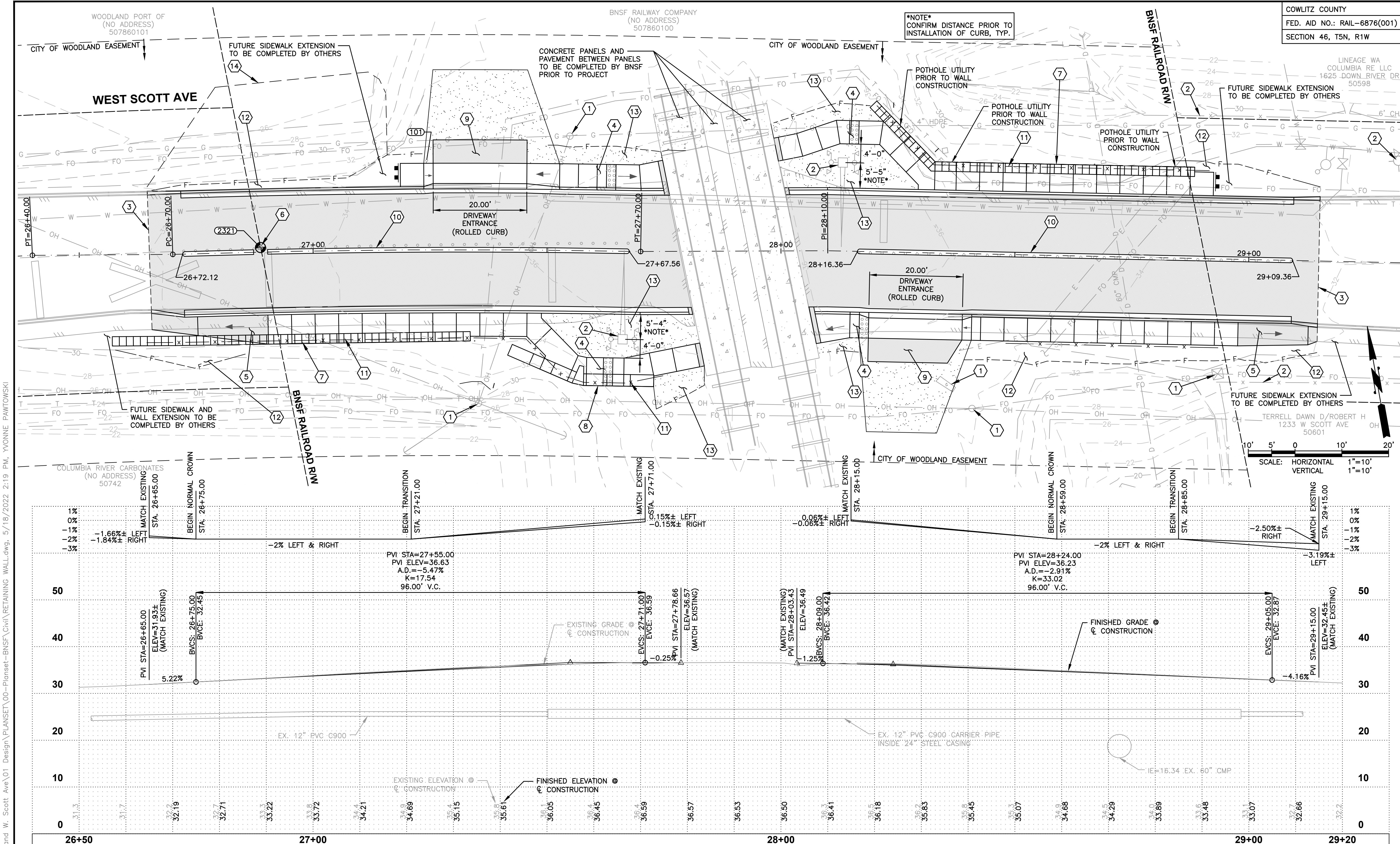
1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT POND.
3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
4. SEDIMENT DEPOSITS SHALL EITHER BE REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-THIRD THE HEIGHT OF THE SILT FENCE, OR A SECOND SILT FENCE SHALL BE INSTALLED.
5. IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

	SILT FENCE				E-20
	APPROVED <i>Bart Stupp</i> 1/6/14	REVISIONS	DATE	DRAWN	



CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
 W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
 EROSION CONTROL DETAILS

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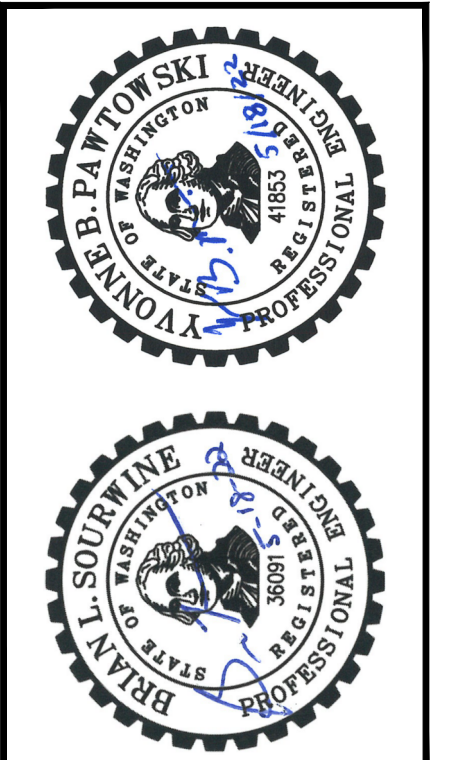


COWLITZ COUNTY
 FED. AID NO.: RAIL-6876(001)
 SECTION 46, T5N, R1W

Gray & Osborne, Inc.
 CONSULTING ENGINEERS
 1130 RAINIER AVENUE SOUTH, SUITE 300
 SEATTLE, WASHINGTON 98144 • (206) 264-0860

DATE: MAY 2022
 DRAWN: YBP
 CHECKED: TN
 APPROVED: BLS

No.	REVISION	DATE	APPD



CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
 WEST SCOTT AVENUE PLAN & PROFILE

DRAWING: **C-1**
 SHEET: **6** OF: **18**
 JOB NO.: 19624.04
 DWG: RETAINING WALL

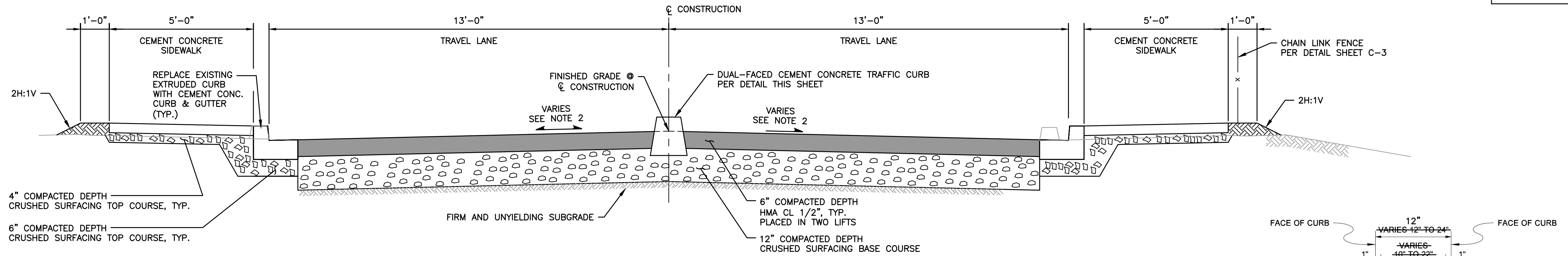
ROADWAY & STORM DRAINAGE NOTES

- CONTRACTOR SHALL PROTECT EXISTING UTILITY POLE, PEDESTAL DURING CONSTRUCTION. SEE GENERAL NOTE 2 SHEET G-1.
- CONTRACTOR SHALL PROTECT EXISTING FENCE, RR SIGNAL, FIRE HYDRANT DURING CONSTRUCTION.
- CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT AND SEAL JOINT (WHERE APPLICABLE), THEN APPLY SAND BLANKET TO THE SURFACE JOINT. SEE BUTT JOINT DETAIL SHEET CD-2.
- CONTRACTOR SHALL CONSTRUCT SIDEWALK TRANSITION PER DETAIL(S) SHEETS C-6 - C-7.
- CONTRACTOR SHALL CONSTRUCT ASPHALT END RAMP PER DETAIL SHEET CD-2.
- CONTRACTOR SHALL REPLACE EXISTING MONUMENT WITH NEW MONUMENT PER DETAIL SHEET CD-2.
- CONTRACTOR SHALL CONSTRUCT MODULAR BLOCK WALL PER DETAILS SHEETS C-2 - C-5.
- CONTRACTOR SHALL CONSTRUCT SEGMENTAL BLOCK WALL PER DETAILS SHEETS C-3 - C-4.
- CONTRACTOR SHALL CONSTRUCT HMA DRIVEWAY REPAIR PER DETAIL SHEET CD-1.
- CONTRACTOR SHALL CONSTRUCT DUAL FACED CEMENT CONCRETE TRAFFIC CURB WITH END RADIUS AS SHOWN, PER DETAIL SHEET C-2.
- CONTRACTOR SHALL CONSTRUCT NEW FENCE PER FENCE SCHEDULE SHEET C-3.
- CONTRACTOR SHALL FURNISH AND INSTALL 4" TOPSOIL AND SEEDING & FERTILIZING AND MULCHING IN AREAS DISTURBED DURING CONSTRUCTION.
- CONTRACTOR SHALL FURNISH AND INSTALL 4" CSTC FOR RESTORATION.
- CONTRACTOR SHALL CLEAR AND GRUB TO ADDITIONAL LIMITS INDICATED.

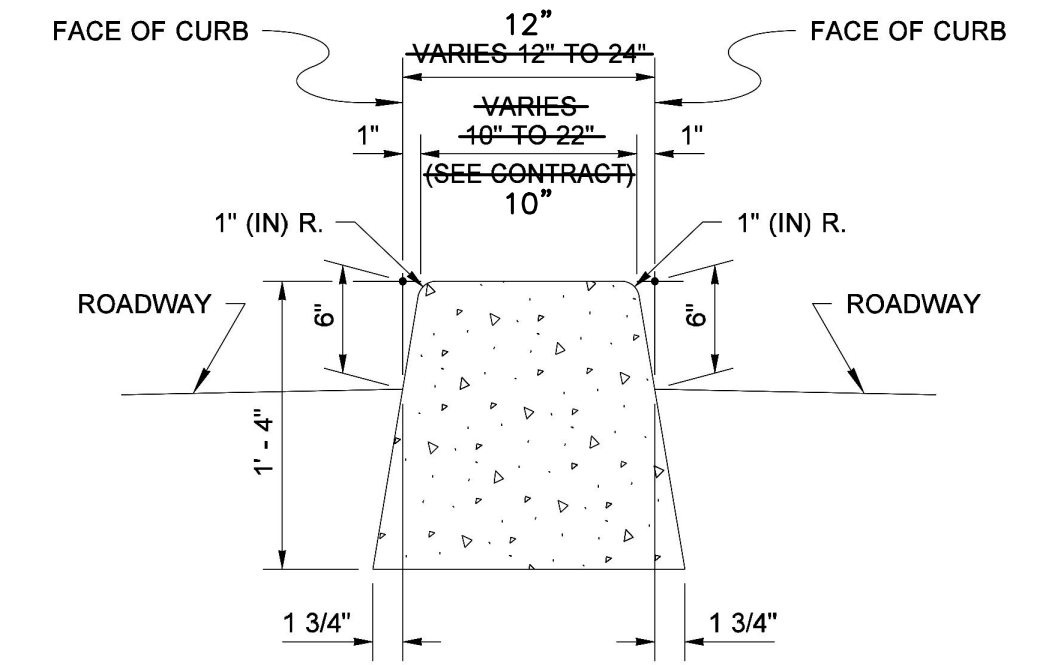
NOTE:
 WALL PLANS ARE TYPICAL ONLY.
 CONTRACTOR SHALL VERIFY AND ADJUST BLOCK LAYOUT AS REQUIRED.
 CONTRACTOR SHALL COORDINATE WITH ENGINEER.

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

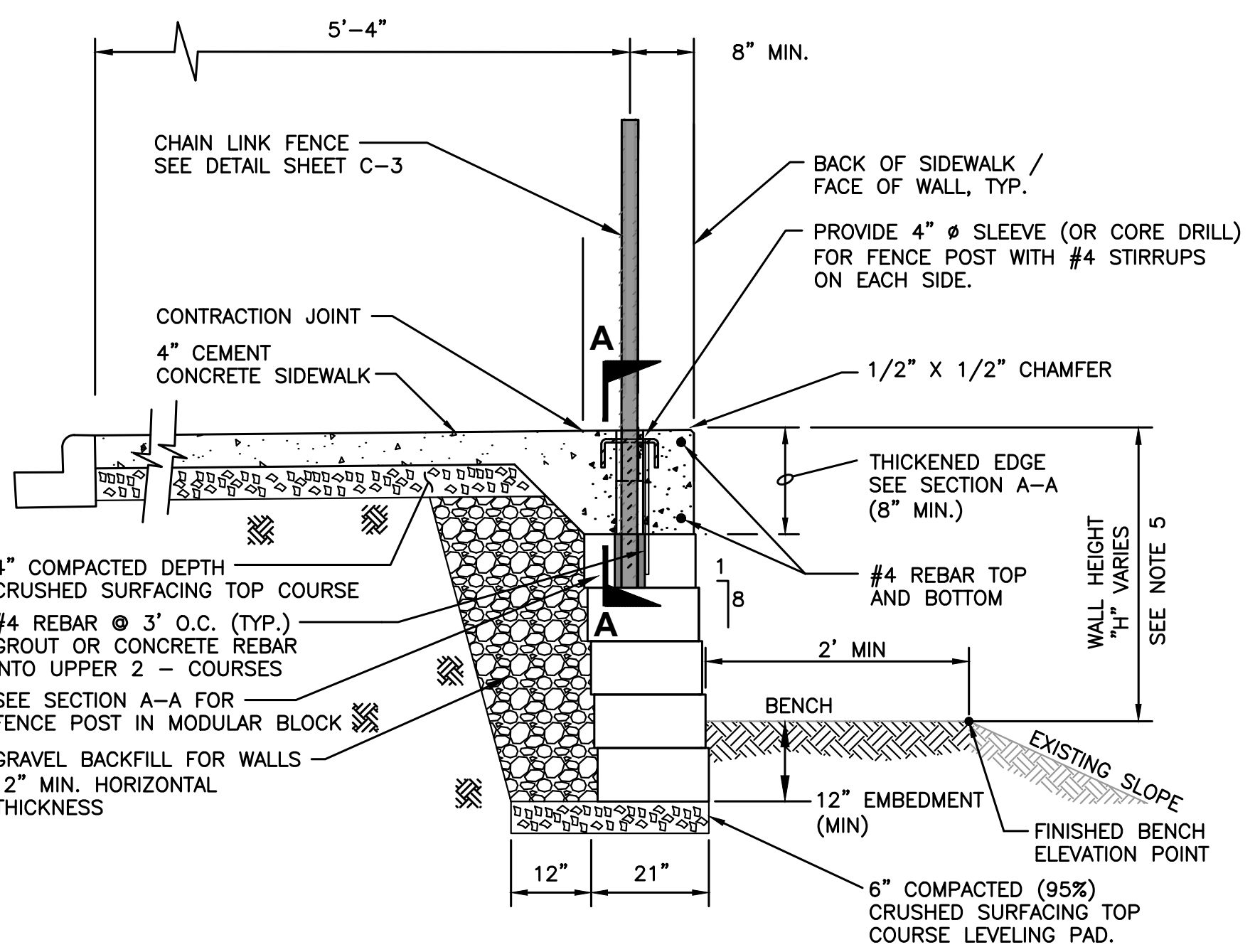
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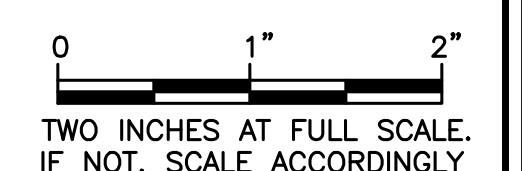
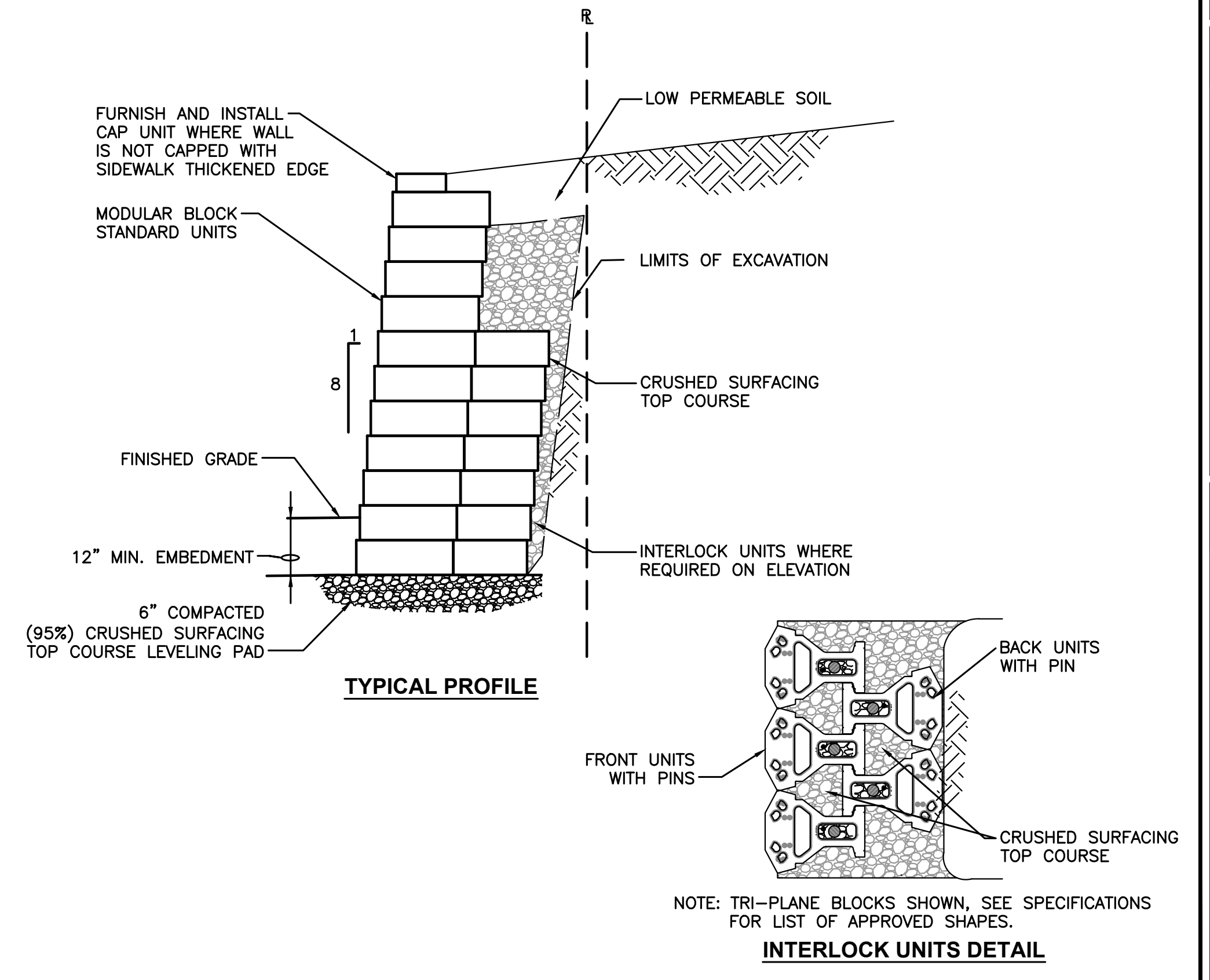
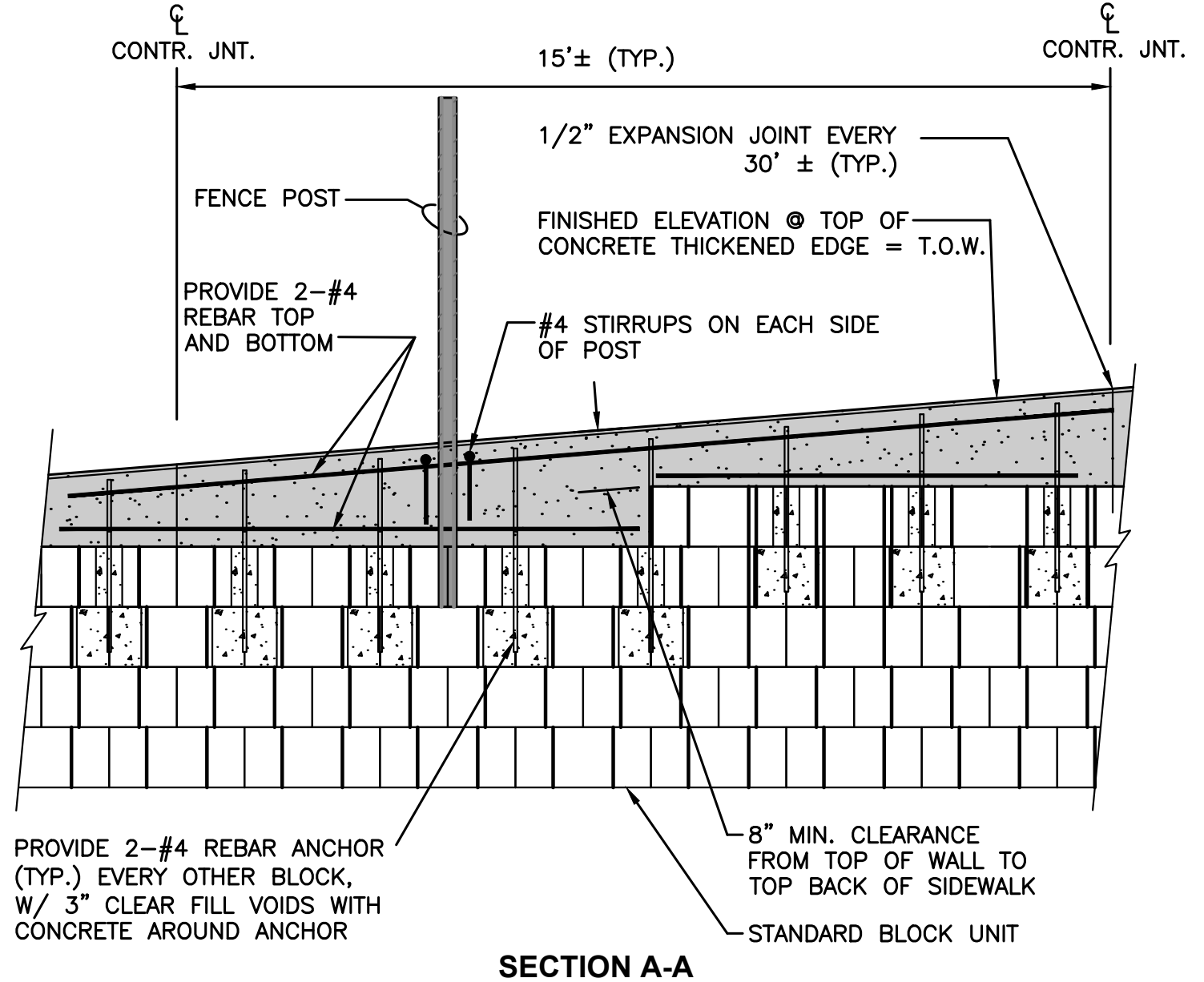
- NOTES:**
- THE NUMBER OF ESAL'S FOR THE DESIGN AND ACCEPTANCE OF THE HMA SHALL BE 3.98 MILLION. THE HMA BID ITEM INCLUDES ALL HMA NECESSARY FOR THE PROJECT INCLUDING FOR THE ROADWAY, DRIVEWAYS, PEDESTRIAN PATH/ROADWAY SHOULDER, ASPHALT CURB AND ANY OTHER ITEMS AS SHOWN ON THE PLANS.
 - SEE SUPERELEVATION TABLE ON PLAN SHEET C-1 FOR CROSS SLOPE.



NOTE: CURB SHALL BE PAINTED REFLECTIVE YELLOW.

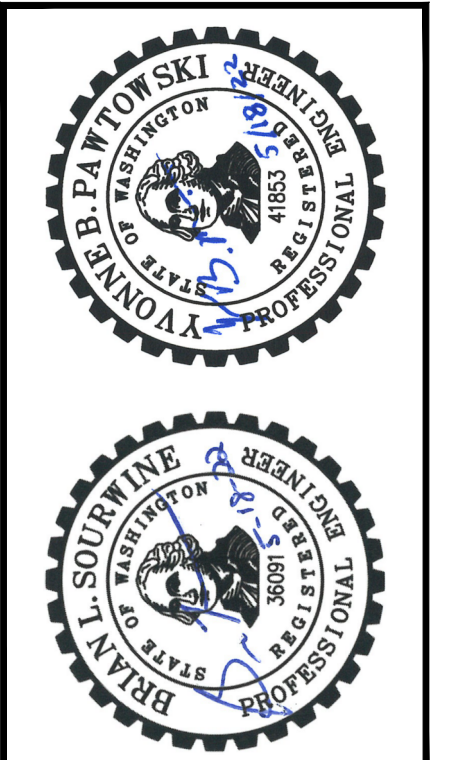


- NOTES:**
- MAINTAIN 2" MINIMUM COVER ON ALL REBAR.
 - FULL EXPANSION JOINTS SHALL BE PLACED EVERY 3RD JOINT AND AT ALL WALL RADIUS AND BEND POINTS.
 - MODULAR BLOCK RETAINING WALL STANDARD BLOCK UNIT 8"x18"x21".
 - CONCRETE CAP SHALL BE CLASS 3000 PSI.
 - MODULAR BLOCK GRAVITY WALL EXPOSED HEIGHT. WHEN H EXCEEDS 4 FEET, INSTALL INTERLOCKED BLOCKS PER DETAIL THIS SHEET.



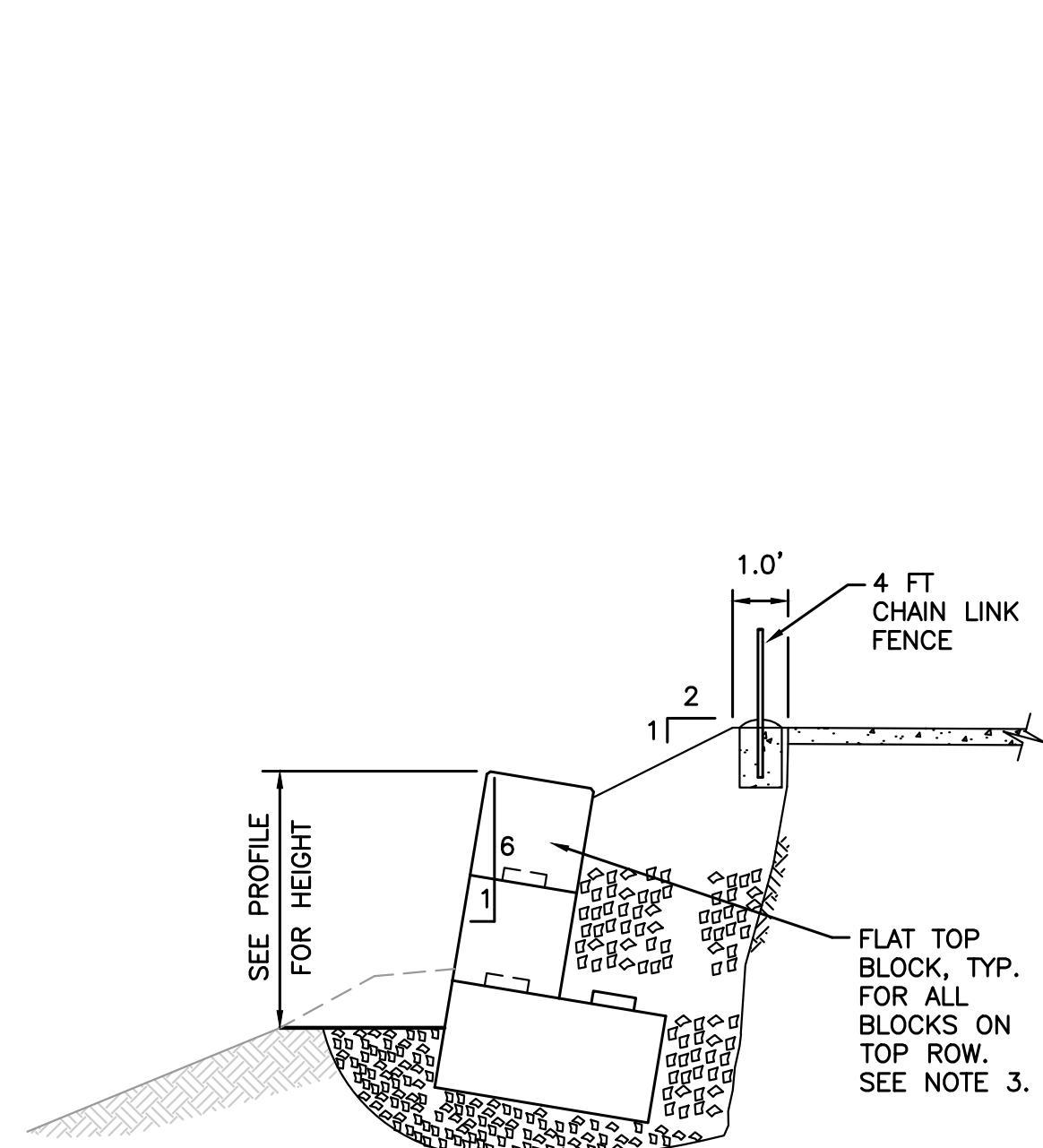
DATE: MAY 2022	YBP	TN	BLS
DRAWN:	CHECKED:	APPROVED:	

REVISION	DATE	APPD
No.		

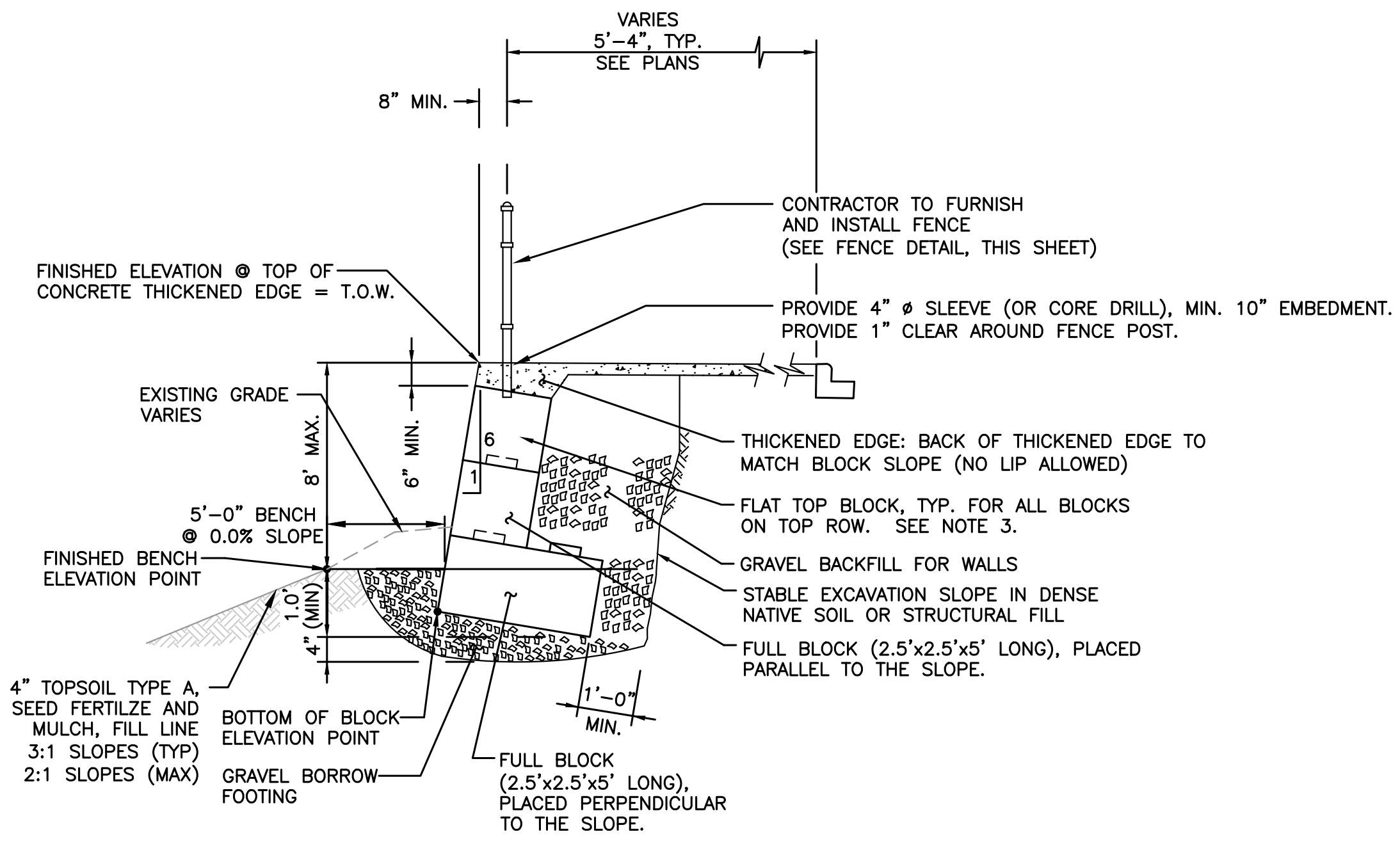


CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
 TYPICAL CROSS SECTION AND RETAINING WALL DETAILS

DATE: MAY 2022	DRAWN: YBP	CHECKED: TN	APPROVED: BLS
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WALL BEHIND SIDEWALK

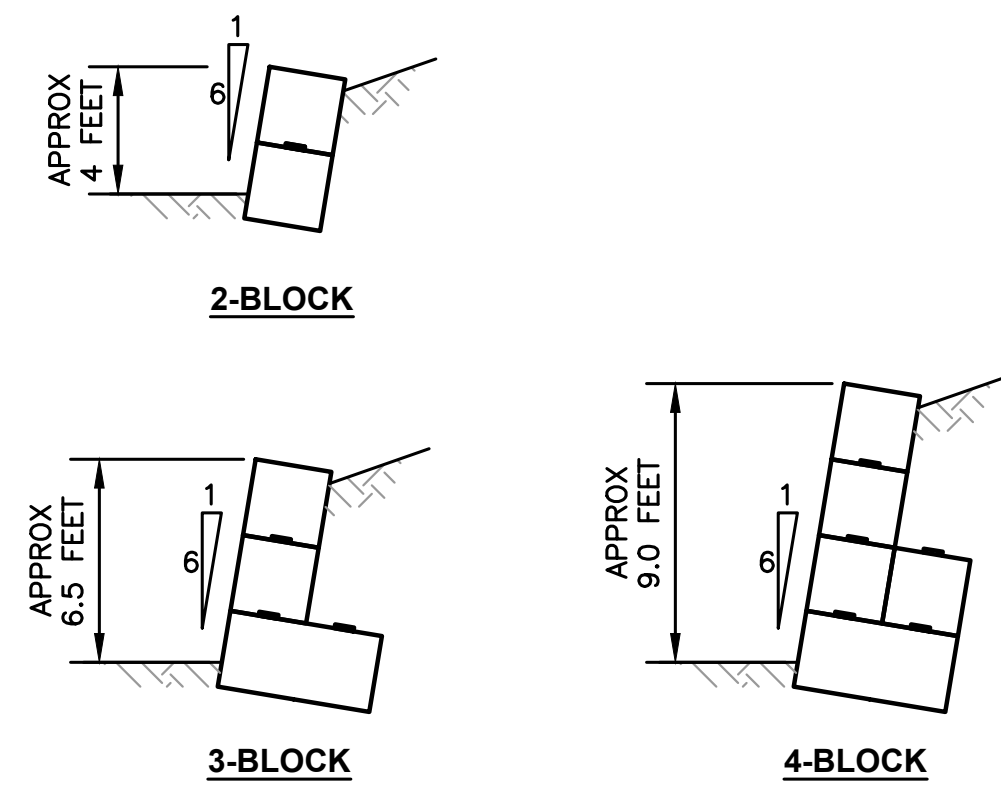


WALL UNDER SIDEWALK

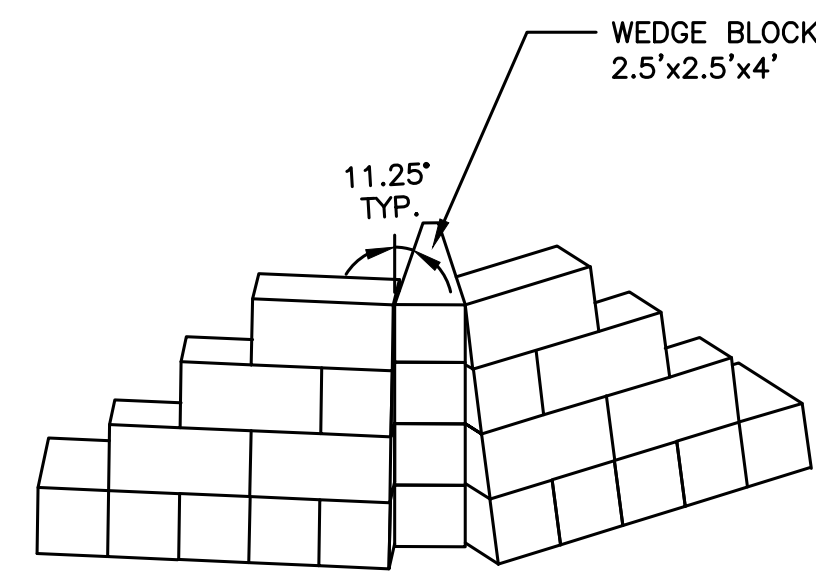
BLOCK WALL NOTES:

- ALL LOOSE SOIL AT WALL FOUNDATION SHALL BE OVER EXCAVATED AND REPLACED WITH COMPACTED BACKFILL AS DESCRIBED ABOVE. THE EXCAVATION SHALL BE KEPT FREE OF WATER. THE PREPARED WALL FOUNDATION SHALL BE EVALUATED BY THE ENGINEER PRIOR TO PLACEMENT OF ANY BLOCKS.
- FOR TYPICAL BLOCK CONFIGURATION SEE SEGMENTAL BLOCK RETAINING WALL TYPICAL CONFIGURATION, THIS SHEET.
- ALL BLOCKS LOCATED ALONG THE TOP ROW SHALL BE FURNISHED WITH A FLAT TOP.

SEGMENTAL BLOCK WALL
 NOT TO SCALE



TYPICAL CONFIGURATION

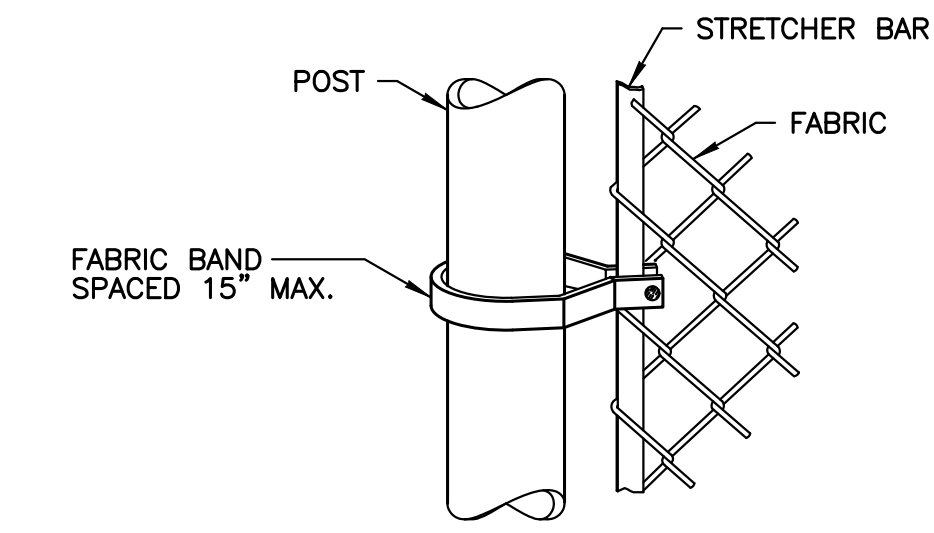


OUTSIDE ANGLE

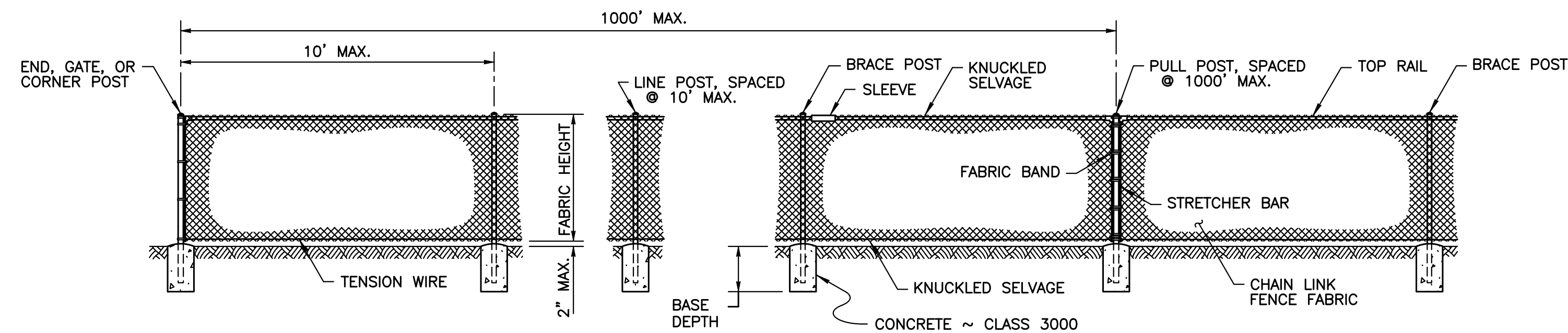
SEGMENTAL BLOCK WALL
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NOTES

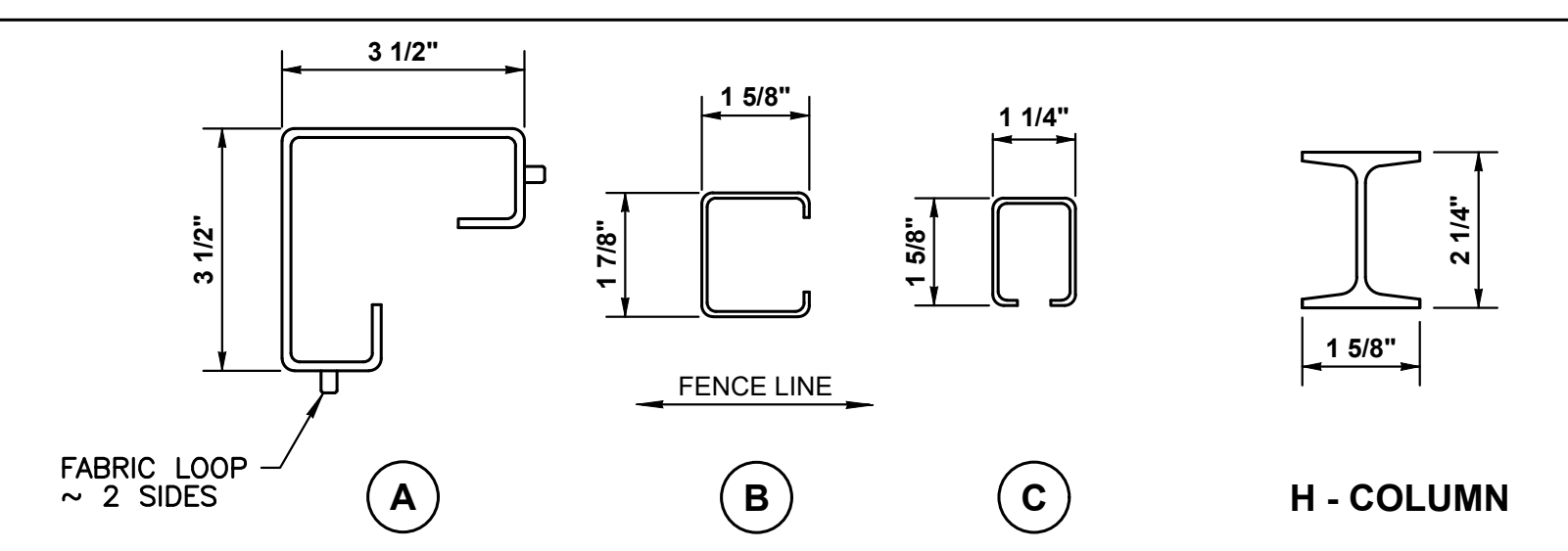
- ALL CONCRETE POST BASES SHALL BE 10" MINIMUM DIAMETER.
- TENSION WIRE SHALL BE PLACED WITHIN THE LIMITS OF THE FIRST FULL FABRIC WEAVE.
- DETAILS ARE ILLUSTRATIVE AND SHALL NOT LIMIT HARDWARE DESIGN OR POST SELECTION OF ANY PARTICULAR FENCE TYPE.
- CONTRACTOR SHALL CONSTRUCT END POST OF FENCE WITHIN 4-INCHES OF WALL, FIELD FIT.
- IN ADDITION TO MEETING THE COATING AND MATERIAL REQUIREMENTS OF SECTION 9-16 OF THE STANDARD SPECIFICATIONS, ALL CHAIN LINK FENCE SHALL HAVE A BLACK VINYL CLAD COATING AND ALL PARTS SHALL MATCH IN COLOR. COATING OF FABRIC SHALL BE EXTRUDED/BONDED OF 0.015 INCH THICKNESS. COATING FOR POSTS AND RAILS SHALL BE 3 MIL POWDER COAT. ALL BOLTS, NUTS, AND WIRE TIES SHALL BE POWDER COATED TO MATCH THE COLOR OF THE FENCE FABRIC.



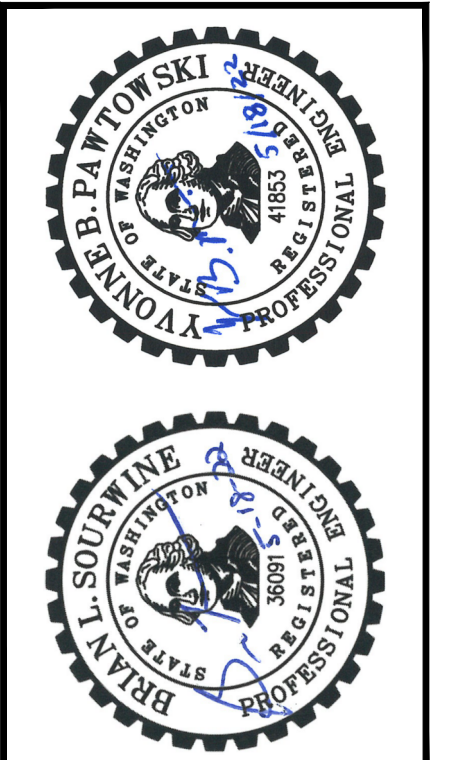
METHOD OF FASTENING STRETCHER BAR TO POST
 (SHOWN FOR ROUND POST)



MEMBER	POST AND RAIL SPECIFICATIONS			
	PIPE NOM. SIZE (SCH. 40)	ROLL FORMED SECTION	WEIGHT (lb/ft)	H - COLUMN WEIGHT (lb/ft)
END, CORNER, OR PULL POST	2 1/2" DIAM.	(A)	5.10	
LINE OR BRACE POST	2" DIAM.	(B)	2.40	3.26
BRACE OR TOP RAIL	1 1/4" DIAM.	(C)	1.35	
GATE POST	3 1/2" DIAM.			

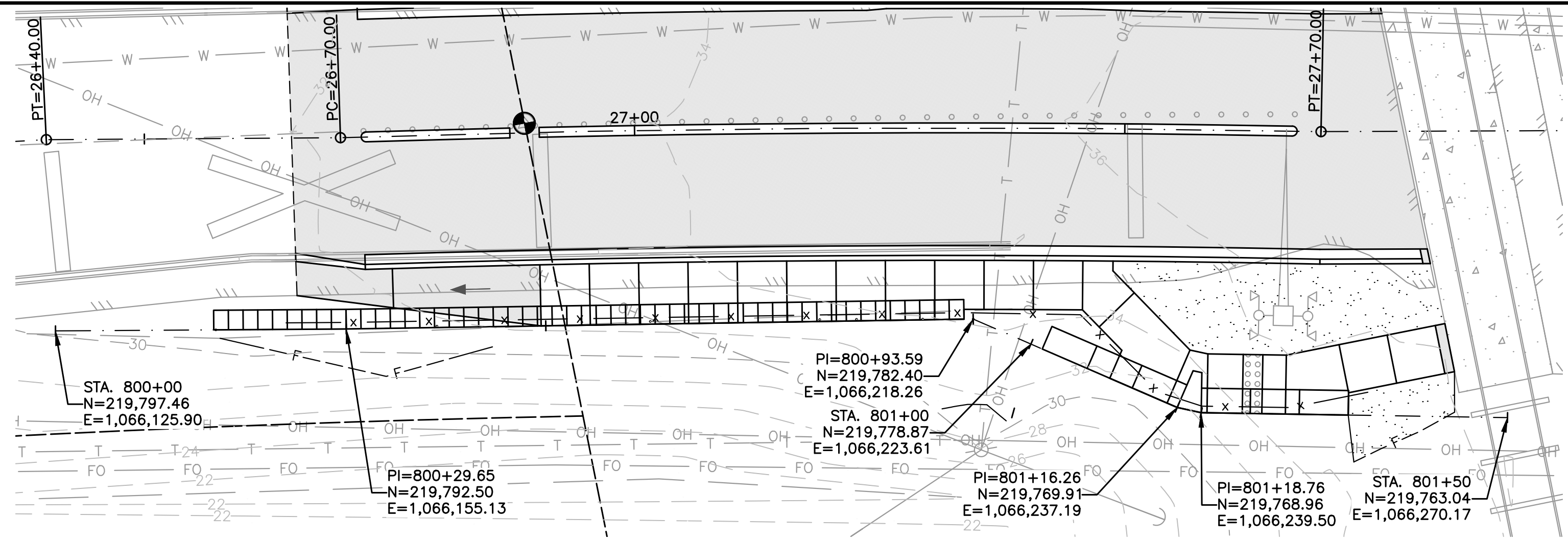


CHAIN LINK FENCE TYPE 6
 NOT TO SCALE

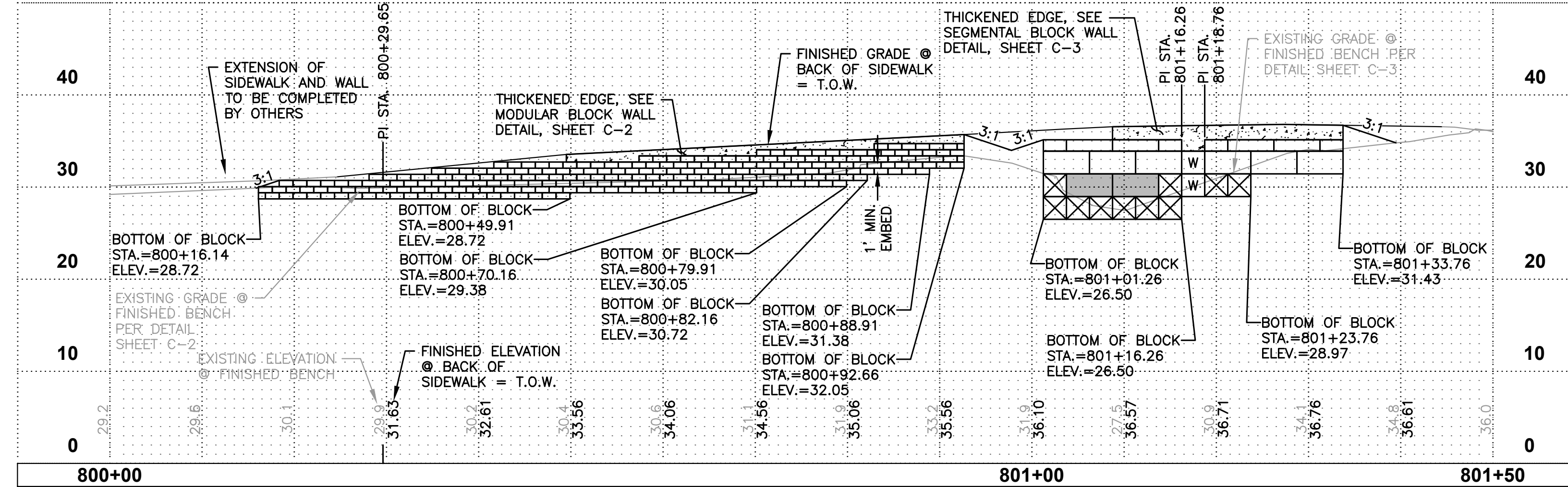
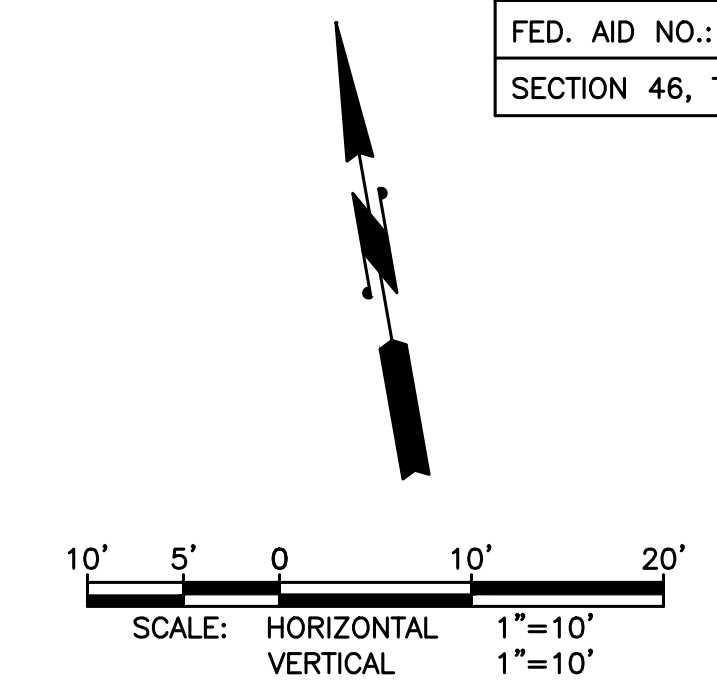


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 COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
 RETAINING WALL AND FENCE DETAILS

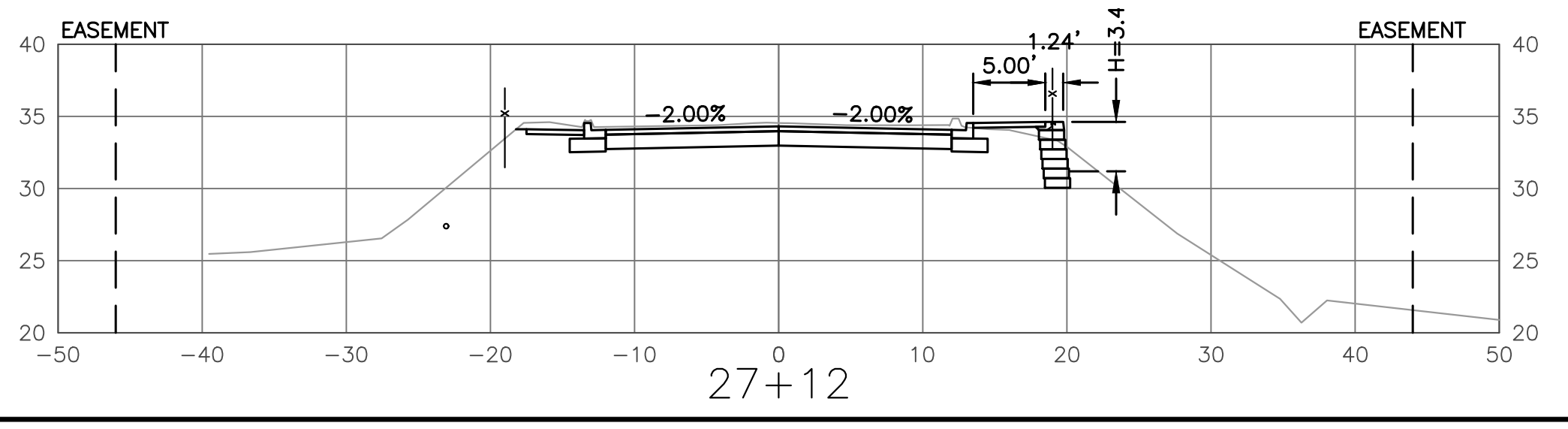
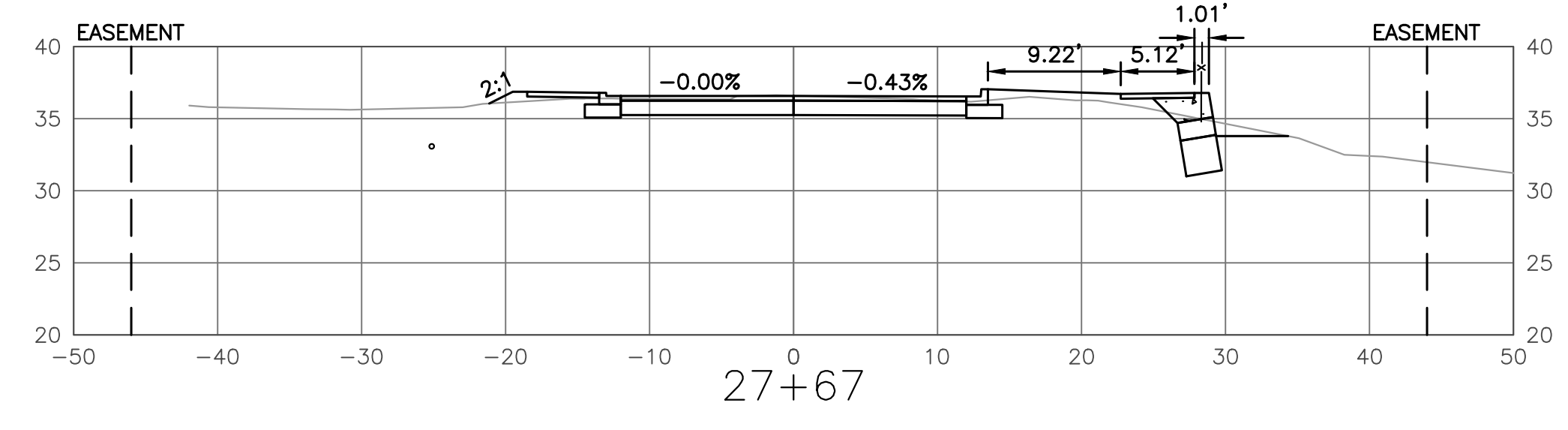
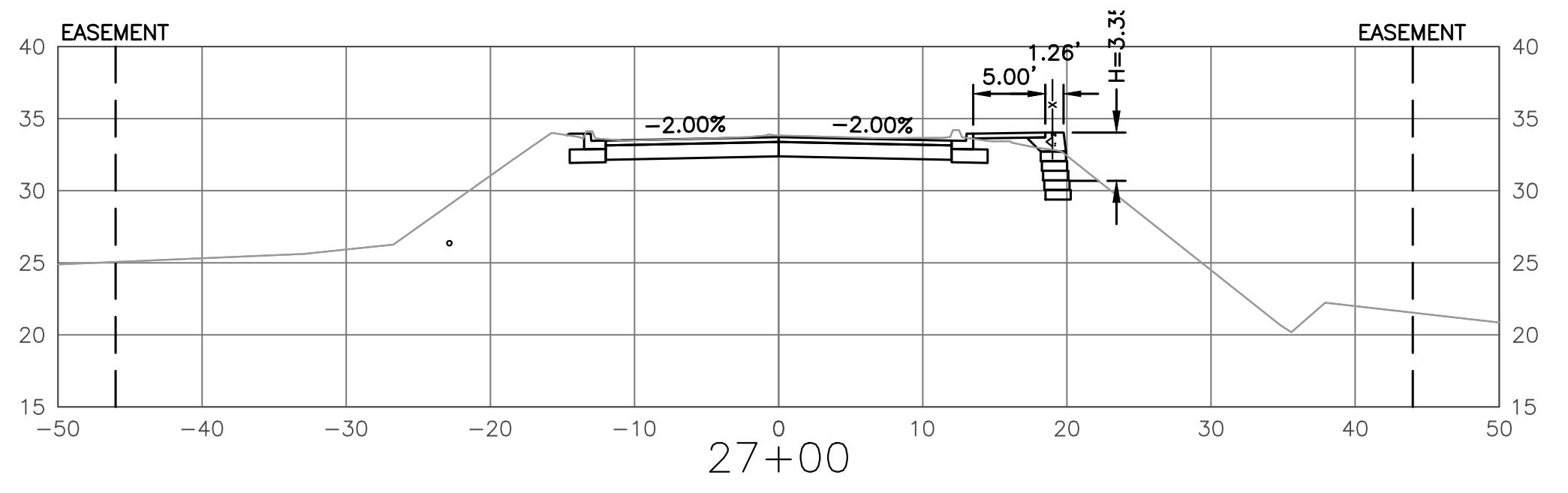
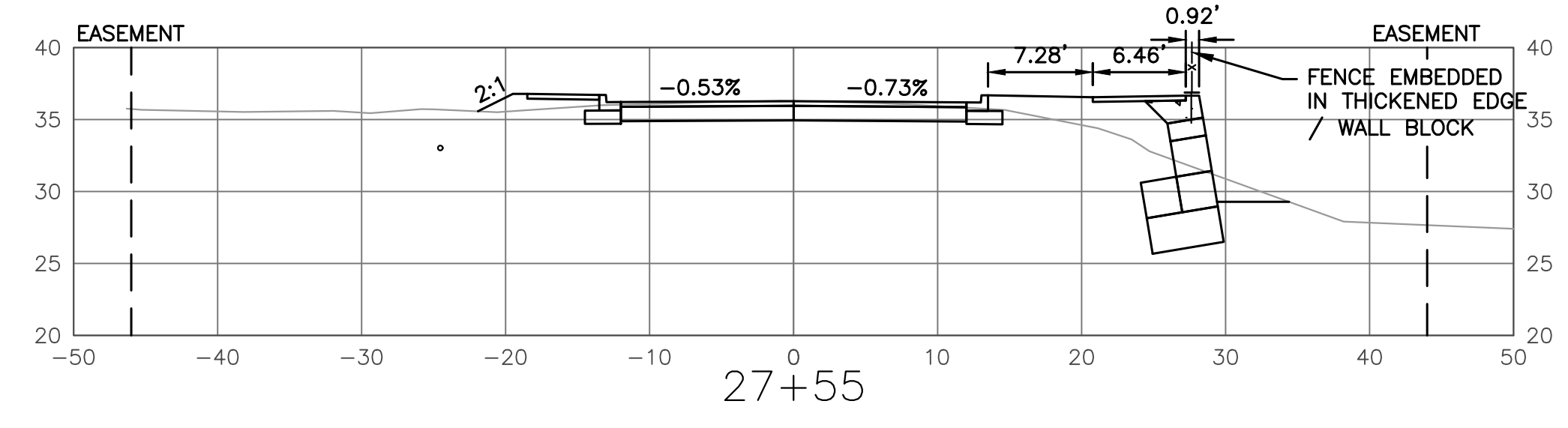
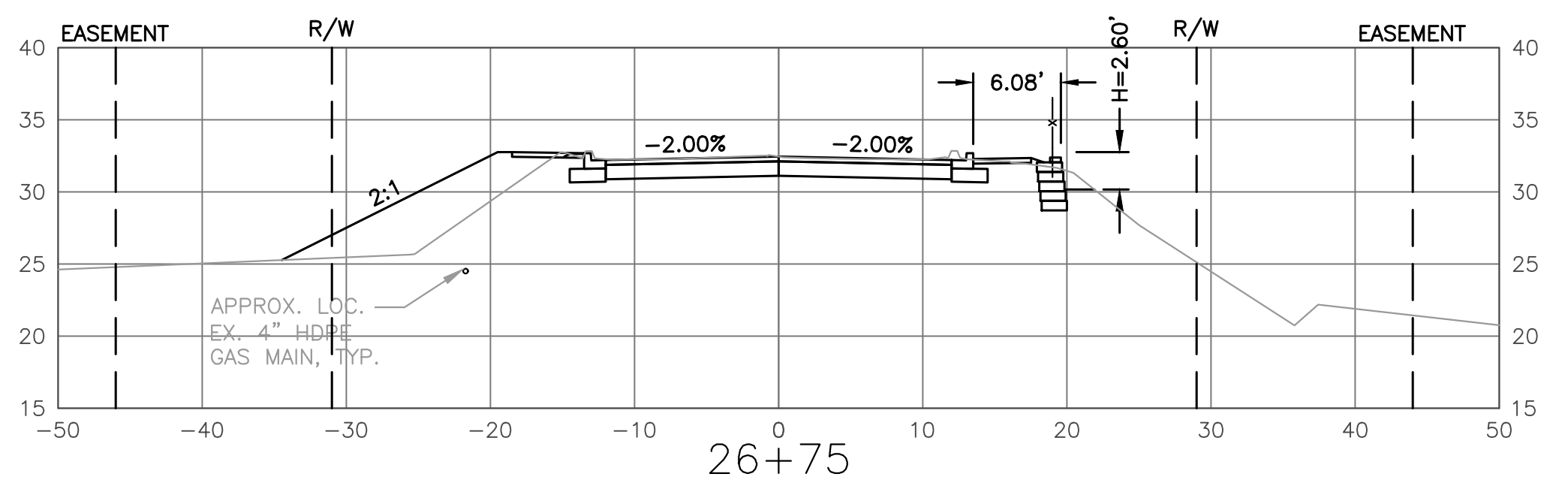
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 SECTION 46, T5N, R1W

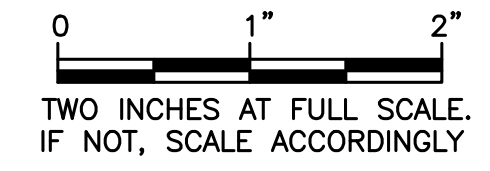


- LEGEND**
- MODULAR BLOCK
 - FULL SEGMENTAL BLOCK
 - 2 FULL SEGMENTAL BLOCKS PLACED PARALLEL TO SLOPE
 - FULL SEGMENTAL BLOCK PLACED PERPENDICULAR TO SLOPE
 - WEDGE SEGMENTAL BLOCK
 - HALF SEGMENTAL BLOCK
 - FULL SEGMENTAL CAP
 - HALF SEGMENTAL CAP



**SOUTHWEST WALLS
 PROFILE AND CROSS SECTIONS**
 SCALE: 1"=10'

NOTE:
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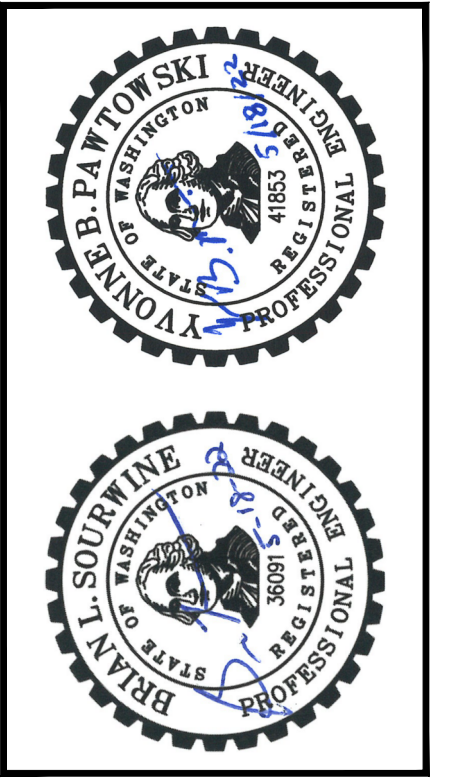


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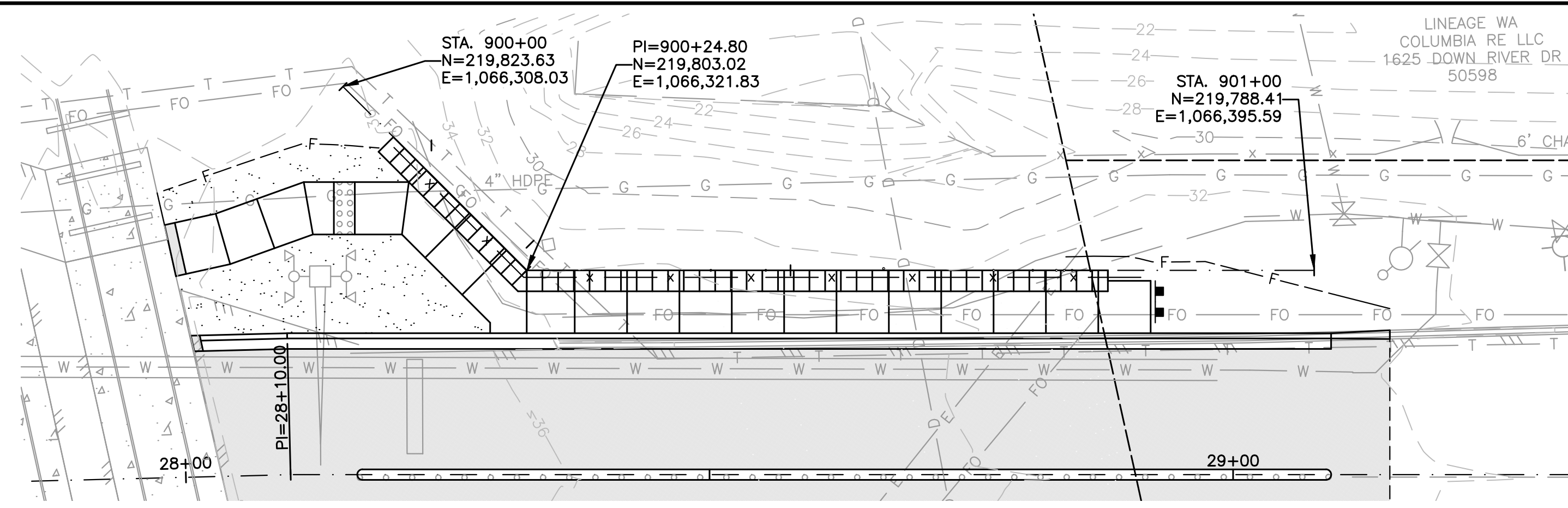
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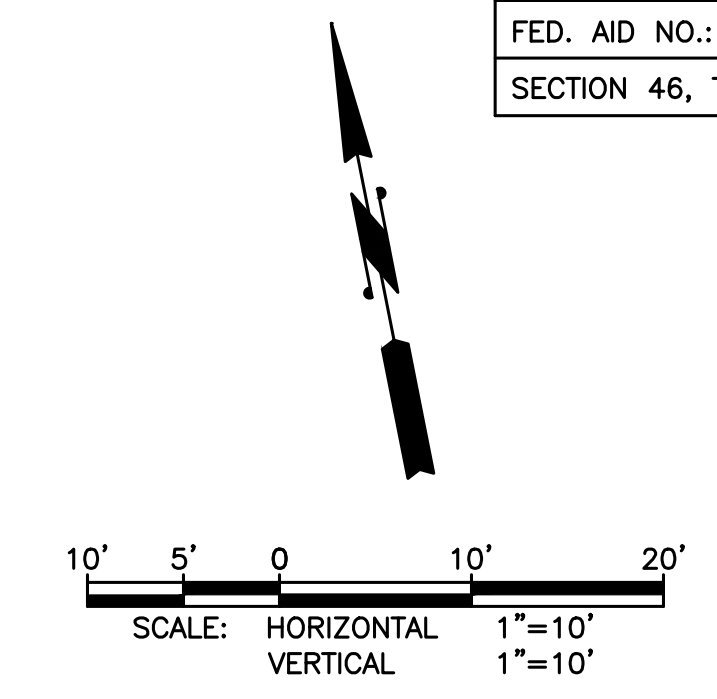


CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
**W SCOTT AVE PEDESTRIAN PAVEMENT
 AND SIDEWALK IMPROVEMENTS**
 RETAINING WALL PROFILE AND SECTIONS

DRAWING: **C-4**
 SHEET: **9** OF: **18**
 JOB NO.: 19624.04
 DWG-RETAINING WALL

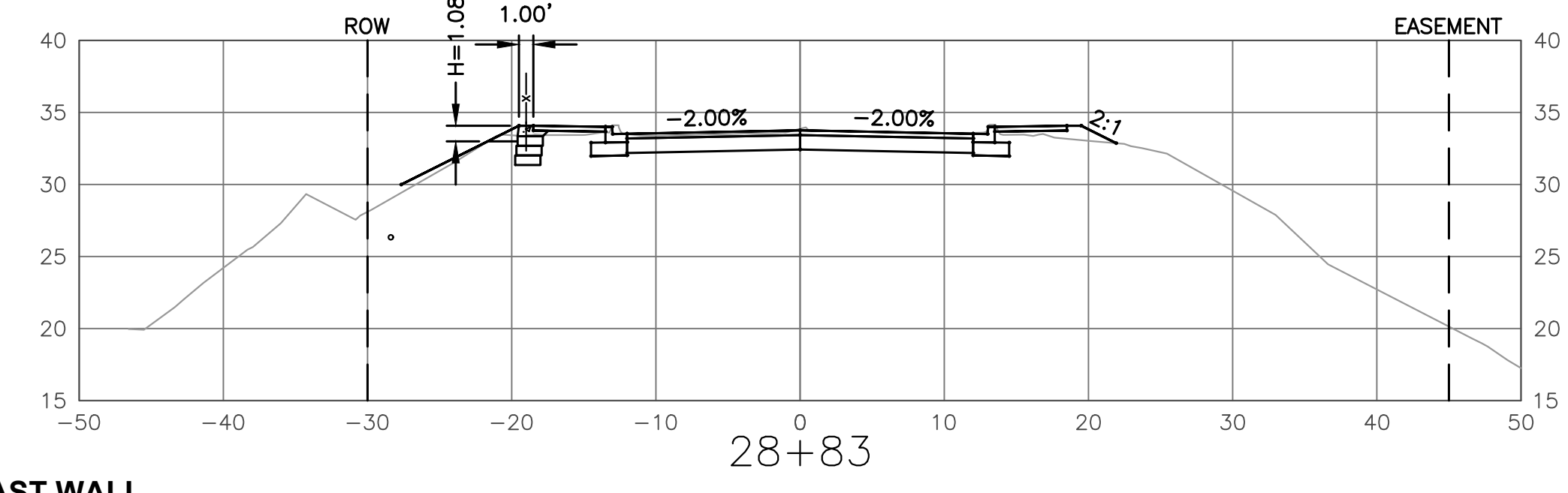
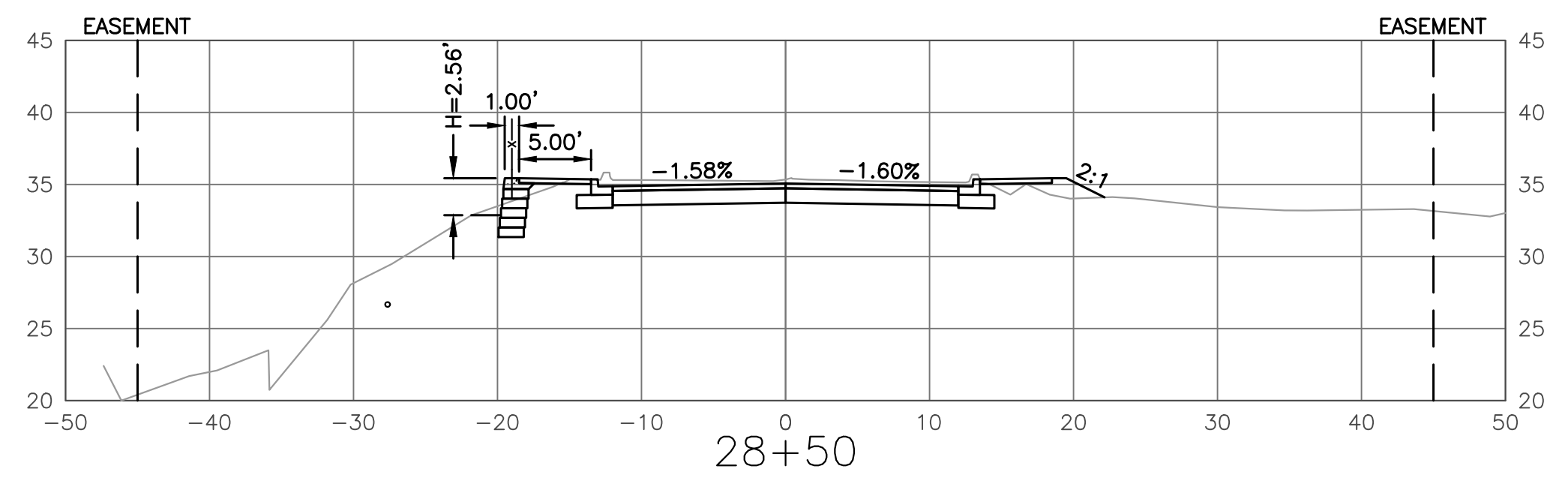
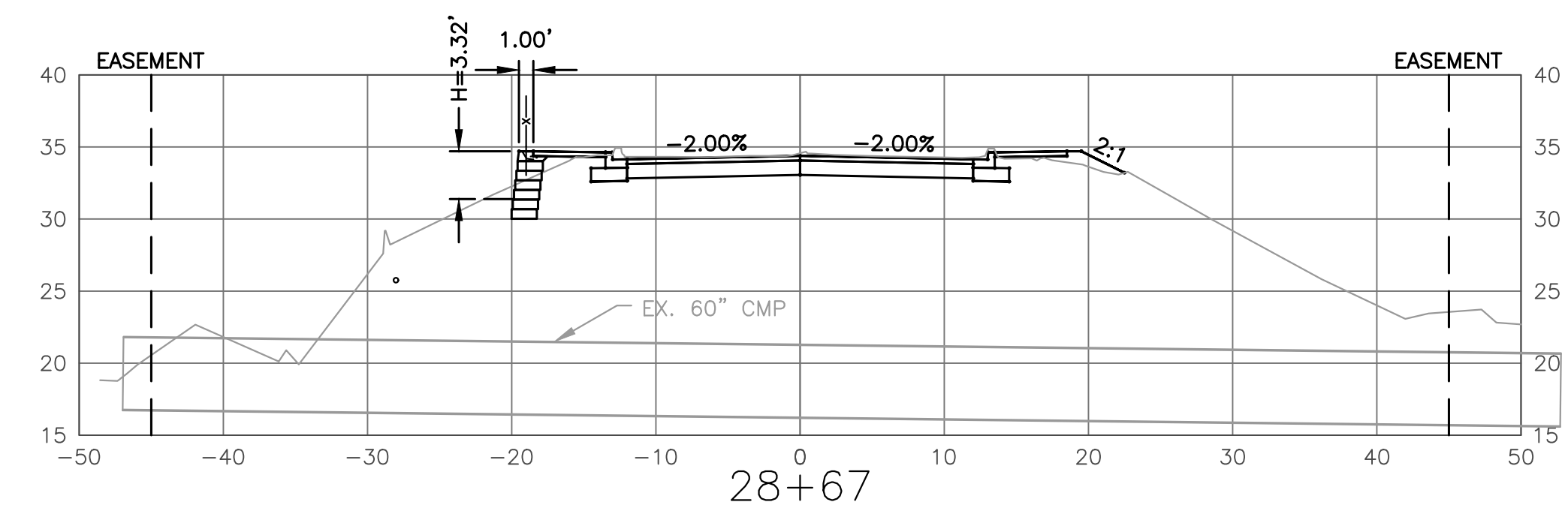
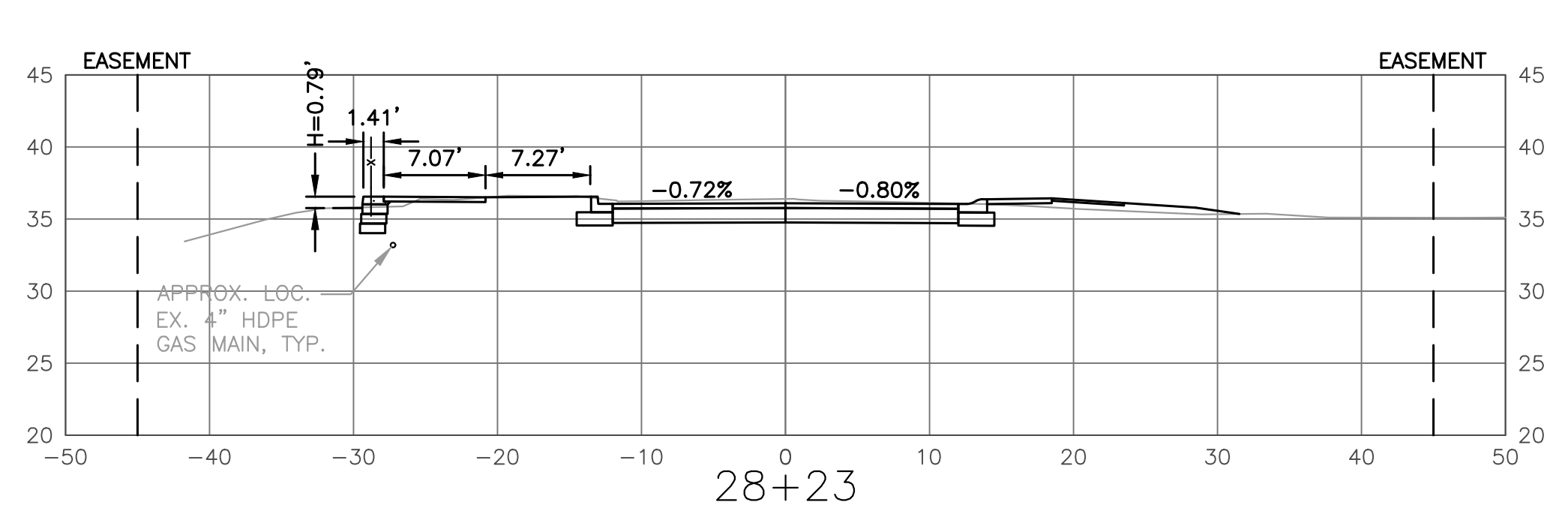
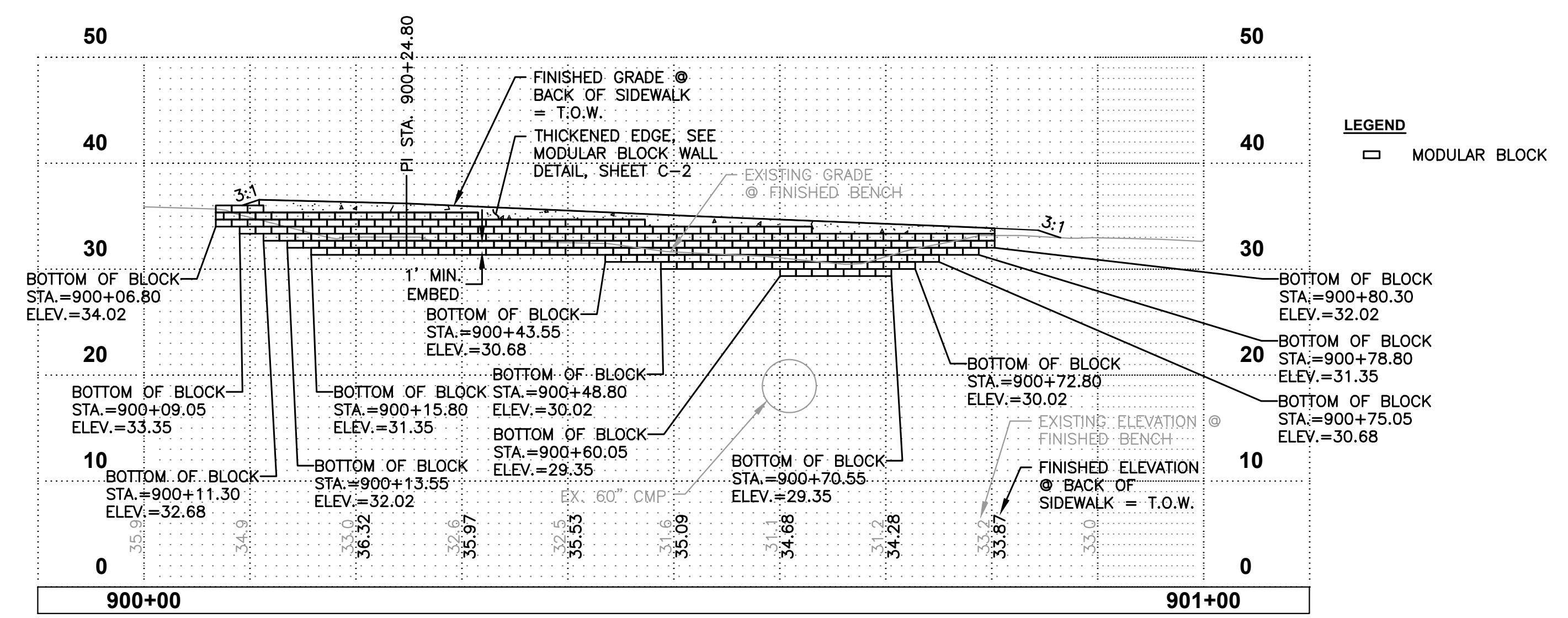


COWLITZ COUNTY
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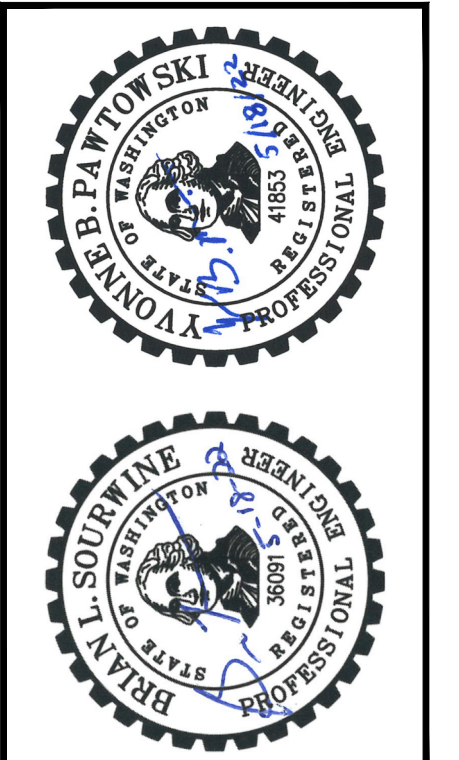
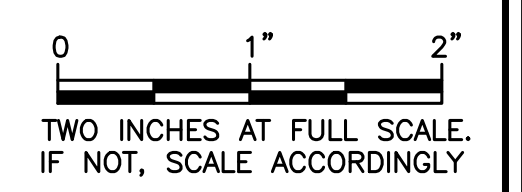
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**NORTHEAST WALL
 PROFILE AND CROSS SECTIONS**
 SCALE: 1"=10'



CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
**W SCOTT AVE PEDESTRIAN PAVEMENT
 AND SIDEWALK IMPROVEMENTS**
 RETAINING WALL PROFILE AND SECTIONS

DRAWING: C-5
SHEET: 10 OF: 18
JOB NO.: 19624.04
DWG: RETAINING WALL

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NORTHWEST CURB AND SIDEWALK TABLE

NUMBER	TYPE	STATION	OFFSET	FLOWLINE ELEV.	CURB HEIGHT	DESCRIPTION	CENTER
①	--	26+64.65	12.72 LT	31.80*	±6" (MATCH EXIST.)	L=98.39' R=1922.00' Δ=2° 55' 59"	26+70.00 1909.00 RT
②	PC	26+72.12	13.00 LT	32.06	6"		
③	RTP	27+23.73	13.00 LT	34.62	6"		
④	RTO	27+25.71	13.00 LT	34.72	4" (ROLLED)		
⑤	RTO	27+45.58	13.00 LT	35.73	4" (ROLLED)		
⑥	RTP	27+52.53	13.00 LT	36.07	6"		
⑦	--	27+60.48	13.00 LT	36.42	6"		
⑧	RTP	27+64.45	13.00 LT	36.53	5"		
⑨	RTO/PT	27+69.84	13.00 LT	36.60	0"		
⑩	--	27+75.77	13.00 LT	36.58*	0"		

CURB RAMP NOTES

1. LANDING. CROSS SLOPE AND RUNNING SLOPE SHALL NOT EXCEED 1.50% (UNLESS NOTED OTHERWISE ON PLANS).
2. DETECTABLE WARNING SURFACE. SEE DETAIL T-21 ON SHEET CD-1.
3. ASPHALT END RAMP PER PLAN AND DETAIL ON SHEET CD-2.

ABBREVIATION TABLE

PC POINT OF CURVATURE
 PI POINT OF INTERSECTION
 PT POINT OF TANGENCY
 RTO RAMP TOE
 RTP RAMP TOP

COWLITZ COUNTY
 FED. AID NO.: RAIL-6876(001)
 SECTION 46, T5N, R1W



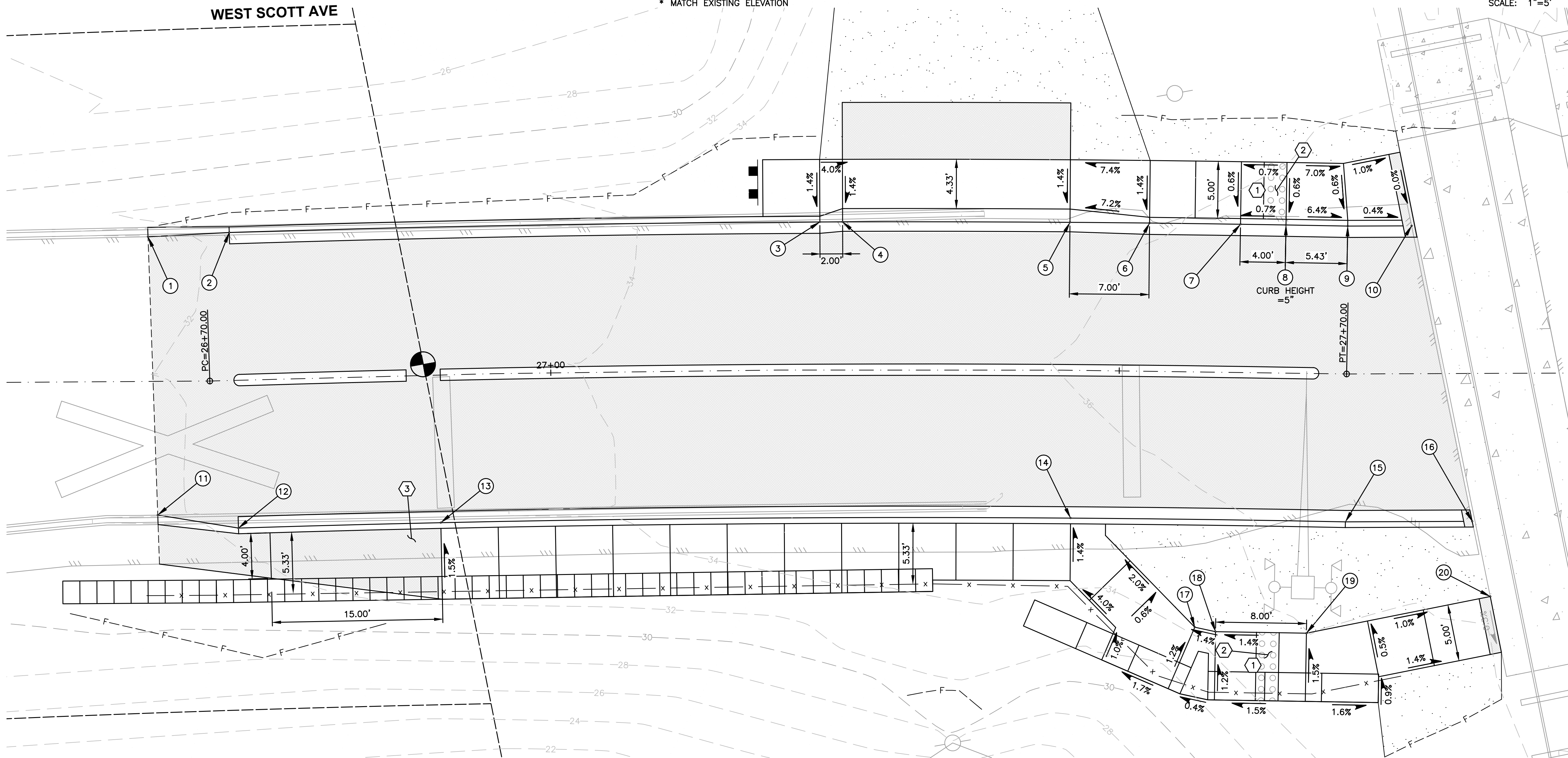
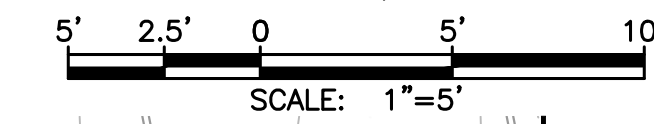
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CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
 CURB AND SIDEWALK GRADES

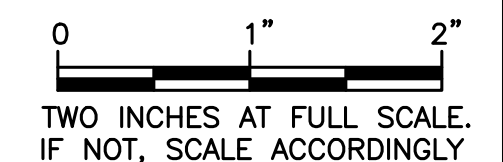
DRAWING: **C-6**
 SHEET: **11** OF: **18**
 JOB NO.: 19624.04
 DWG:RAMPS



SOUTHWEST CURB AND SIDEWALK TABLE

NUMBER	TYPE	STATION	OFFSET	FLOWLINE ELEV.	CURB HEIGHT	DESCRIPTION	CENTER
⑪	--	26+65.34	11.76 RT	31.79*	±6" (MATCH EXIST.)	L=97.37' R=1896.00' Δ=2° 56' 33"	26+70.00 1909.00 RT
⑫	PC	26+72.12	13.00 RT	32.05	6"		
⑬	RTP	26+90.04	13.00 RT	32.97	6"		
⑭	--	27+45.81	13.00 RT	35.73	6"		
⑮	PT/PI	27+70.00	13.00 RT	36.57	6"		
⑯	--	27+81.00	13.00 RT	36.41*	0"		
⑰	WALK PI	27+56.94	22.48 RT	TOP OF WALK 36.59	N/A		
⑱	WALK PI	27+58.79	22.85 RT	TOP OF WALK 36.62	N/A		
⑲	WALK PI	27+66.89	22.85 RT	TOP OF WALK 36.73	N/A		
⑳	WALK --	27+82.56	19.61 RT	TOP OF WALK 36.56*	N/A		

* MATCH EXISTING ELEVATION



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MATCHLINE STA. 27+90 - SEE SHEET C-6

NORTHEAST CURB AND SIDEWALK TABLE

NUMBER	TYPE	STATION	OFFSET	FLOWLINE ELEV.	CURB HEIGHT
1	---	28+00.79	13.00 LT	36.30*	0"
2	---	28+10.00	13.00 LT	36.42	6"
3	---	28+32.54	13.00 LT	35.63	6"
4	RTP	28+92.13	13.00 LT	33.10	6"
5	PI	29+09.36	13.00 LT	32.30	6"
6	---	29+14.97	12.95 LT	32.12*	±6" (MATCH EXIST.)
7	WALK ---	27+99.52	19.21 LT	TOP OF WALK 36.38*	N/A
8	WALK PI	28+04.74	20.23 LT	TOP OF WALK 36.56	N/A
9	WALK PI	28+12.13	22.92 LT	TOP OF WALK 36.85	N/A
10	WALK PI	28+16.13	22.92 LT	TOP OF WALK 36.79	N/A
11	WALK PI	28+20.63	22.92 LT	TOP OF WALK 36.59	N/A

* MATCH EXISTING ELEVATION

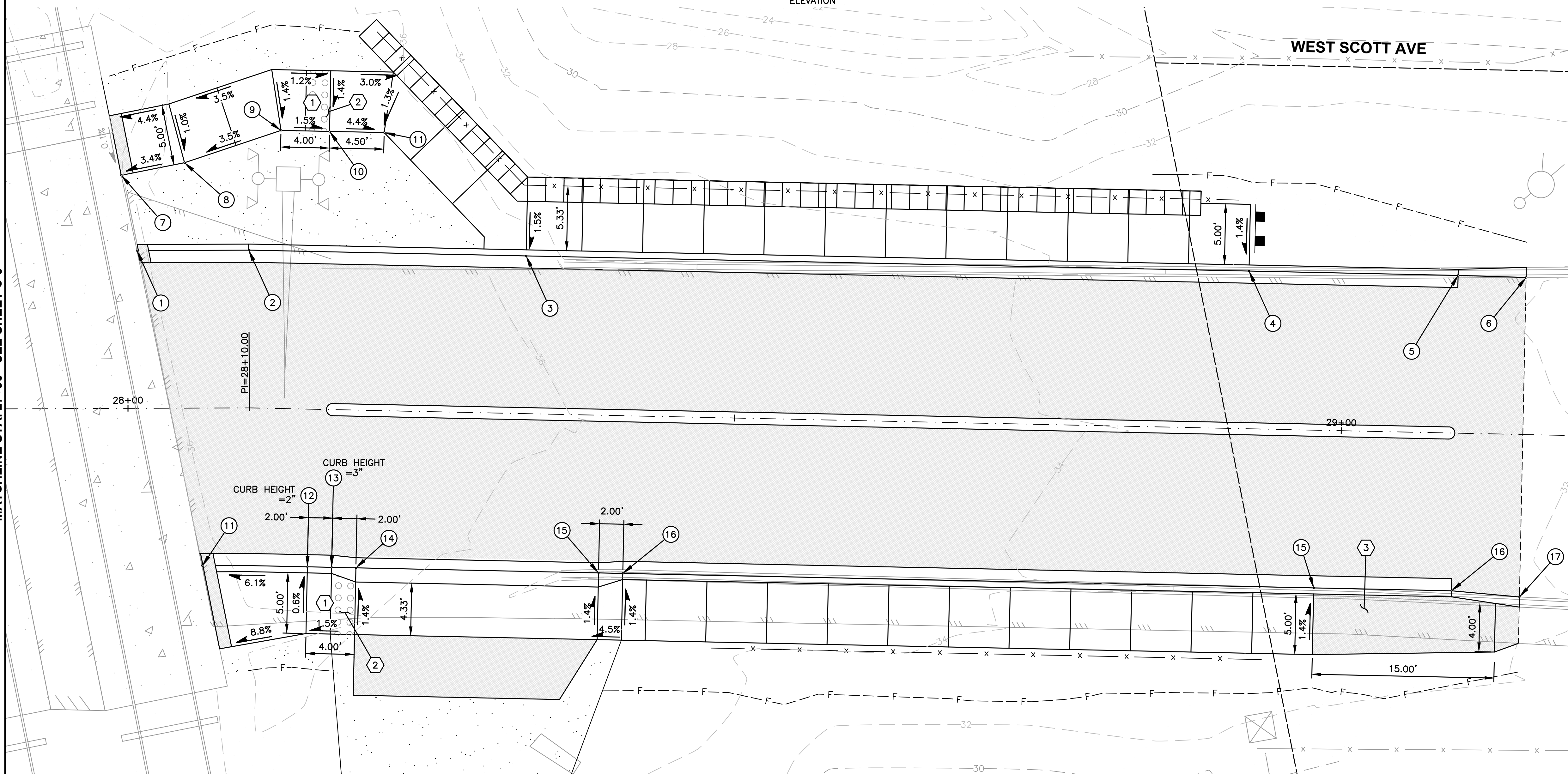
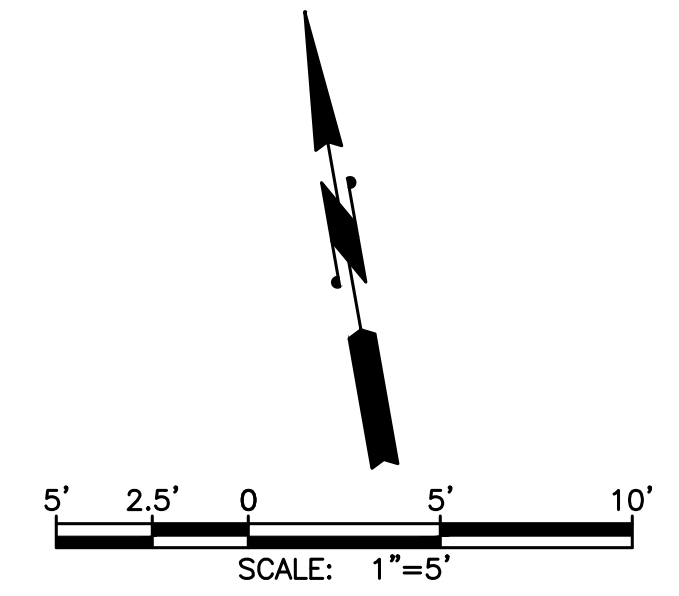
CURB RAMP NOTES

1. LANDING. CROSS SLOPE AND RUNNING SLOPE SHALL NOT EXCEED 1.50% (UNLESS NOTED OTHERWISE ON PLANS).
2. DETECTABLE WARNING SURFACE. SEE DETAIL T-21 ON SHEET CD-1.
3. ASPHALT END RAMP PER PLAN AND DETAIL ON SHEET CD-2.

ABBREVIATION TABLE

PC POINT OF CURVATURE
 PI POINT OF INTERSECTION
 PT POINT OF TANGENCY
 RTO RAMP TOE
 RTP RAMP TOP

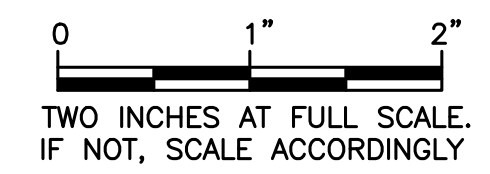
COWLITZ COUNTY
 FED. AID NO.: RAIL-6876(001)
 SECTION 46, T5N, R1W



SOUTHEAST CURB AND SIDEWALK TABLE

NUMBER	TYPE	STATION	OFFSET	FLOWLINE ELEV.	CURB HEIGHT
11	RTO	28+06.07	13.00 RT	35.97*	0"
12	RTP	28+15.05	13.00 RT	36.31	2"
13	---	28+17.05	13.00 RT	36.25	3"
14	---	28+19.05	13.00 RT	36.18	4" (ROLLED)
15	RTO	28+39.05	13.00 RT	36.34	4" (ROLLED)
16	RTP	28+41.05	13.00 RT	36.25	6"
17	RTP	28+98.00	13.00 RT	32.87	6"
18	PI	29+09.36	13.00 RT	32.37	6"
19	---	29+14.97	13.39 RT	32.22*	±6" (MATCH EXIST.)

* MATCH EXISTING ELEVATION



Gray & Osborne, Inc.
 CONSULTING ENGINEERS
 1130 RAINIER AVENUE SOUTH, SUITE 300
 SEATTLE, WASHINGTON 98144 • (206) 264-0860

DATE: MAY 2022	DRAWN:	CHECKED:	APPROVED:
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No.	REVISION	DATE	APPD

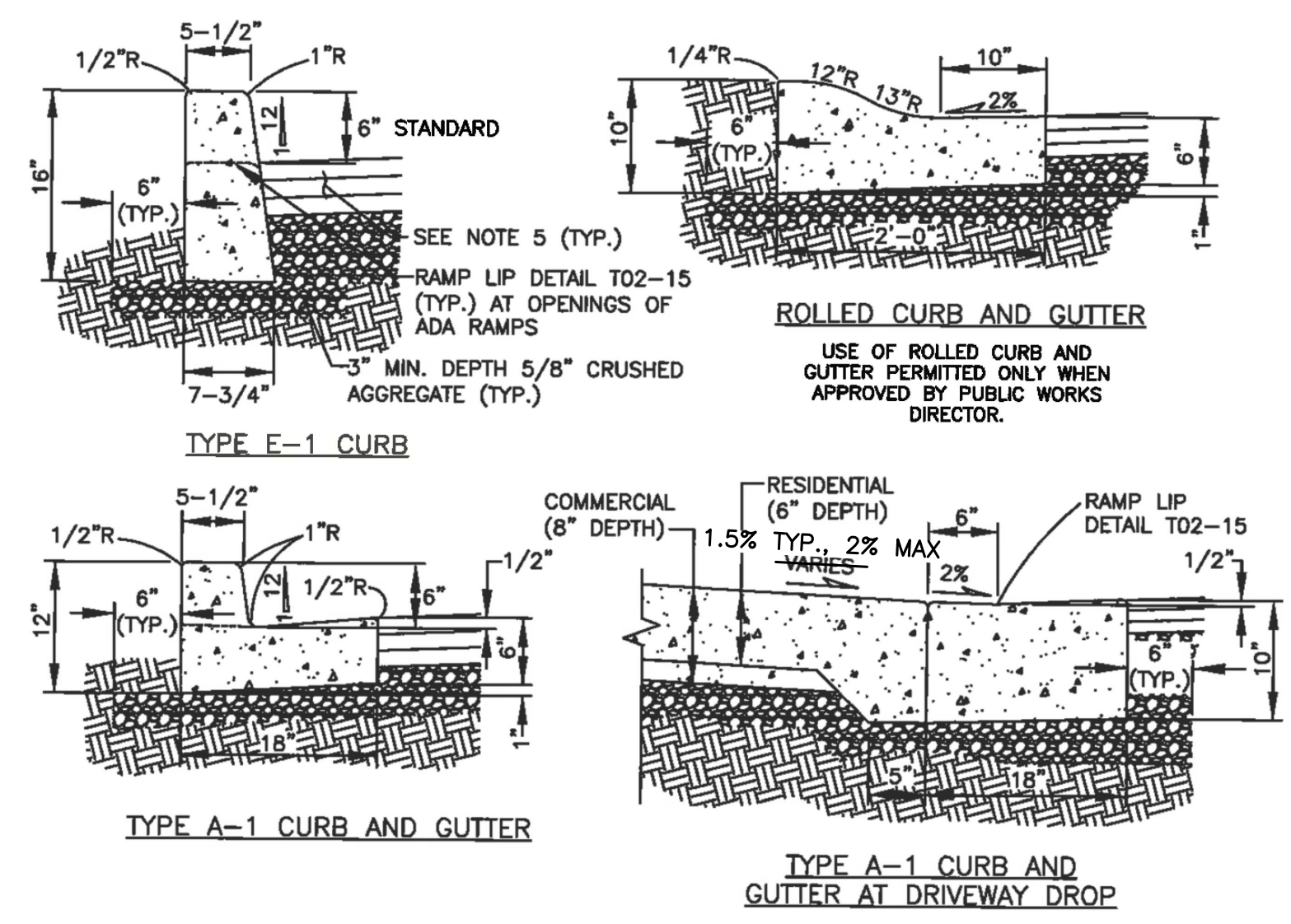
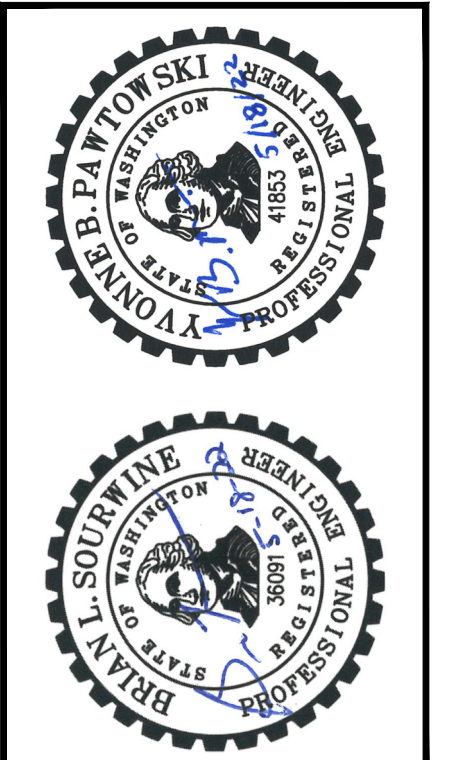


CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
 CURB AND SIDEWALK GRADES

DRAWING: C-7
SHEET: 12 OF: 18
JOB NO.: 19624.04
DWG:RAMPS

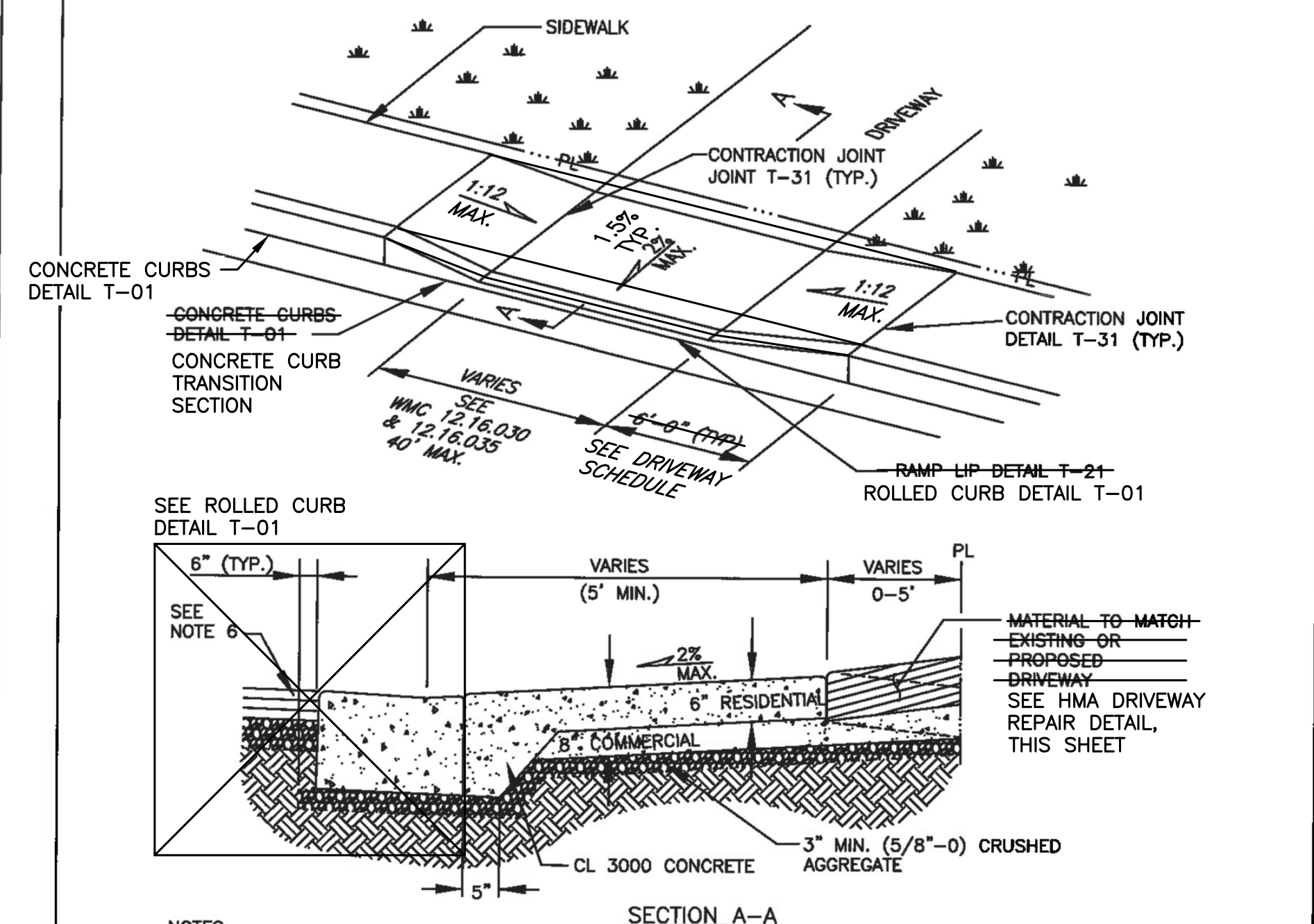
DATE: MAY 2022	DRAWN: Y.B.P.	CHECKED: T.N.	APPROVED: T.N.
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	DATE	APPD
	REVISION	No.



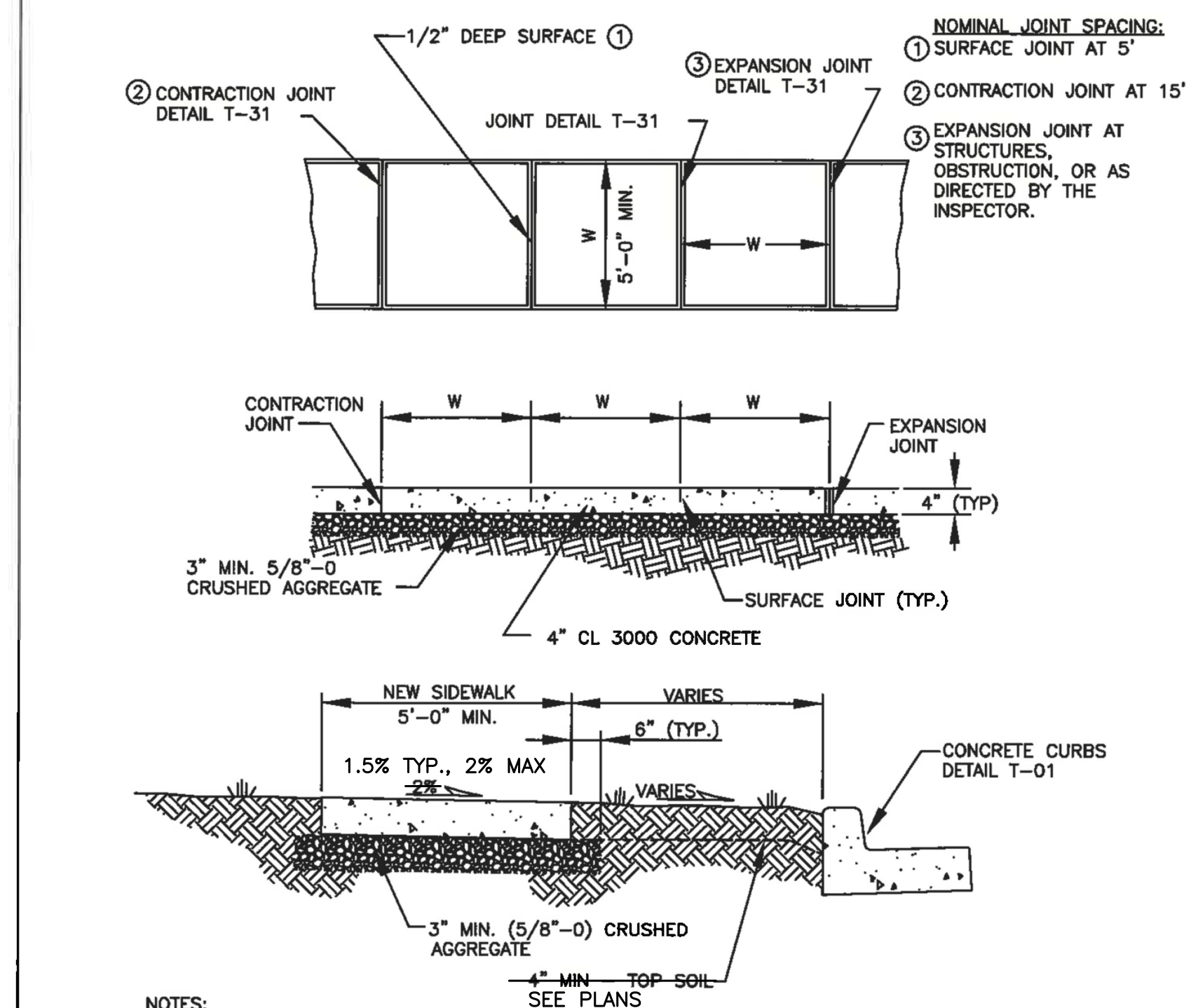
- NOTES:**
- CONCRETE SHALL BE 4000 PSI (CL 4000); 3-1/2" SLUMP (MAX).
 - CURBS ADJACENT TO PAVEMENT OR SIDEWALK SHALL HAVE CONSTRUCTION JOINTS TO MATCH EXISTING PATTERNS. 3/8" EXPANSION JOINTS SHALL BE PLACED ON BOTH SIDES OF CATCH BASINS, AT TOPS OF DRIVEWAYS, ALL CHANGES IN DIRECTION, AND AS DIRECTED BY THE INSPECTOR. CONTRACTION JOINTS TO BE PLACED AT 15' MAXIMUM SPACING.
 - FOR CURB DROPS AT ADA RAMP, SEE RAMP LIP DETAIL T-21.
 - COMPACT SUBGRADE AND AGGREGATE TO 95% MAXIMUM DRY DENSITY (3" MIN. DEPTH).
 - SEE PAVEMENT RESTORATION/WIDENING AT CURBS DETAIL T-30-SEE TYPICAL ROAD CROSS-SECTION ON SHEET C-2.
 - CURB TO BE MEDIUM BROOM FINISHED, PARALLEL TO GUTTER LINE.
 - WHERE MATCHING EXISTING CURBS, ALL EXISTING EDGES SHALL BE SAWCUT.
 - WHEN ATTACHED SIDEWALKS ARE USED WITH ROLLED CURB AND GUTTER, THICKENED SIDEWALKS (6" MIN.) SHALL BE CONSTRUCTED UNDER THE SAME CONSTRUCTION CONTRACT.

CONCRETE CURBS					T-01
REVISIONS	DATE	DRAWN	DESIGNED	MODIFIED	



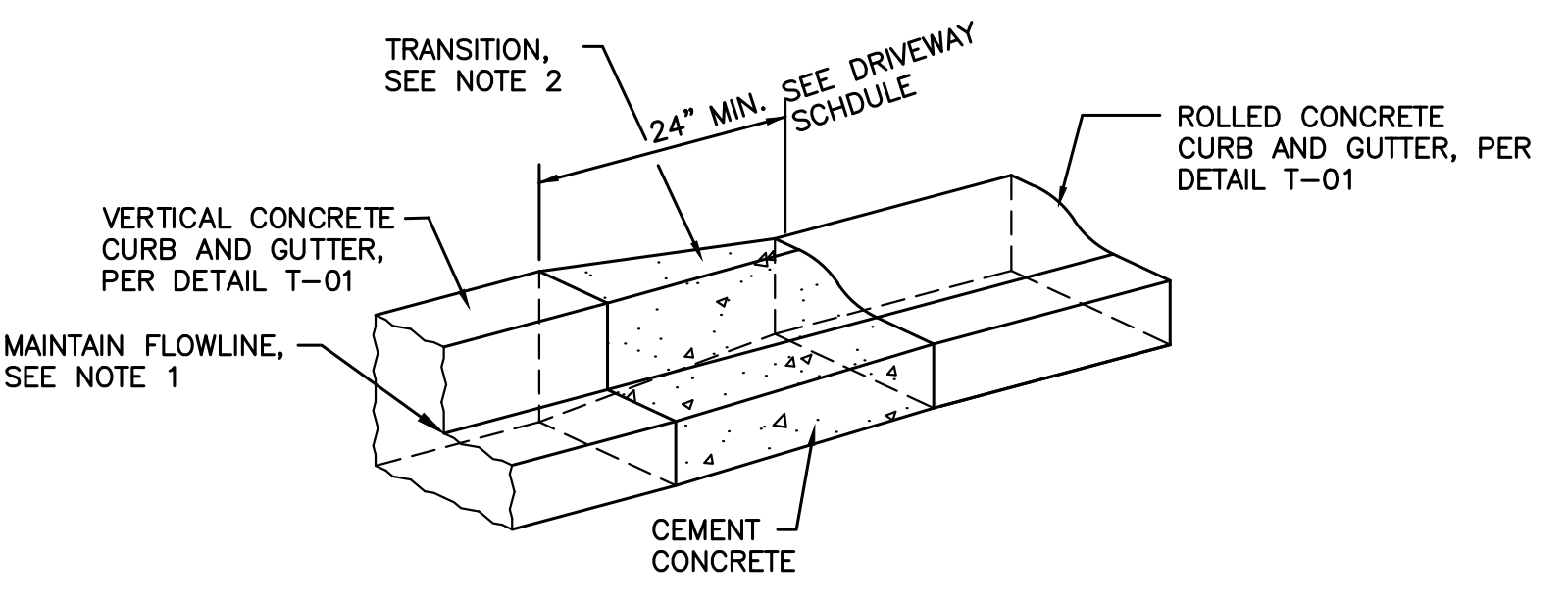
- NOTES:**
- CONCRETE SHALL BE 4000 PSI (CL 4000); 3-1/2" SLUMP (MAX), MEDIUM BROOM FINISH PARALLEL TO DRIVEWAY CENTERLINE.
 - COMMERCIAL DRIVEWAYS REQUIRE REINFORCING STEEL (6x6 - W2.9xW2.9 WWF, MIN.), MIN. 1 1/2" COVER FROM BOTTOM OF SLAB.
 - COMPACT SUBGRADE AND AGGREGATE TO 95% OF MAXIMUM DRY DENSITY (3" MIN. DEPTH).
 - DRIVEWAYS EXCEEDING 15' IN TOTAL WIDTH SHALL HAVE ADDITIONAL LONGITUDINAL JOINTS AS DIRECTED. JOINT SPACING SHALL NOT EXCEED 15'. SEE CONCRETE JOINTS DETAIL T-31.
 - EXISTING CURB SHALL BE REMOVED TO EXISTING JOINT OR SAWCUT SUCH THAT 3" MIN. OF NEW CURB IS CONSTRUCTED ADJACENT TO NEW DRIVEWAY.
 - SEE PAVEMENT RESTORATION/WIDENING AT CURBS DETAIL T-30 WHEN CUTTING EXISTING CURB.
 - ALL EXISTING EDGES SHALL BE SAWCUT.
 - SET ALL POLES AND SIGNS BEHIND SIDEWALK.
 - NO WATER METERS IN DRIVEWAY APPROACH OR WINGS.

DRIVEWAY WITH ATTACHED SIDEWALK - OPTION B					T-05
REVISIONS	DATE	DRAWN	DESIGNED	MODIFIED	



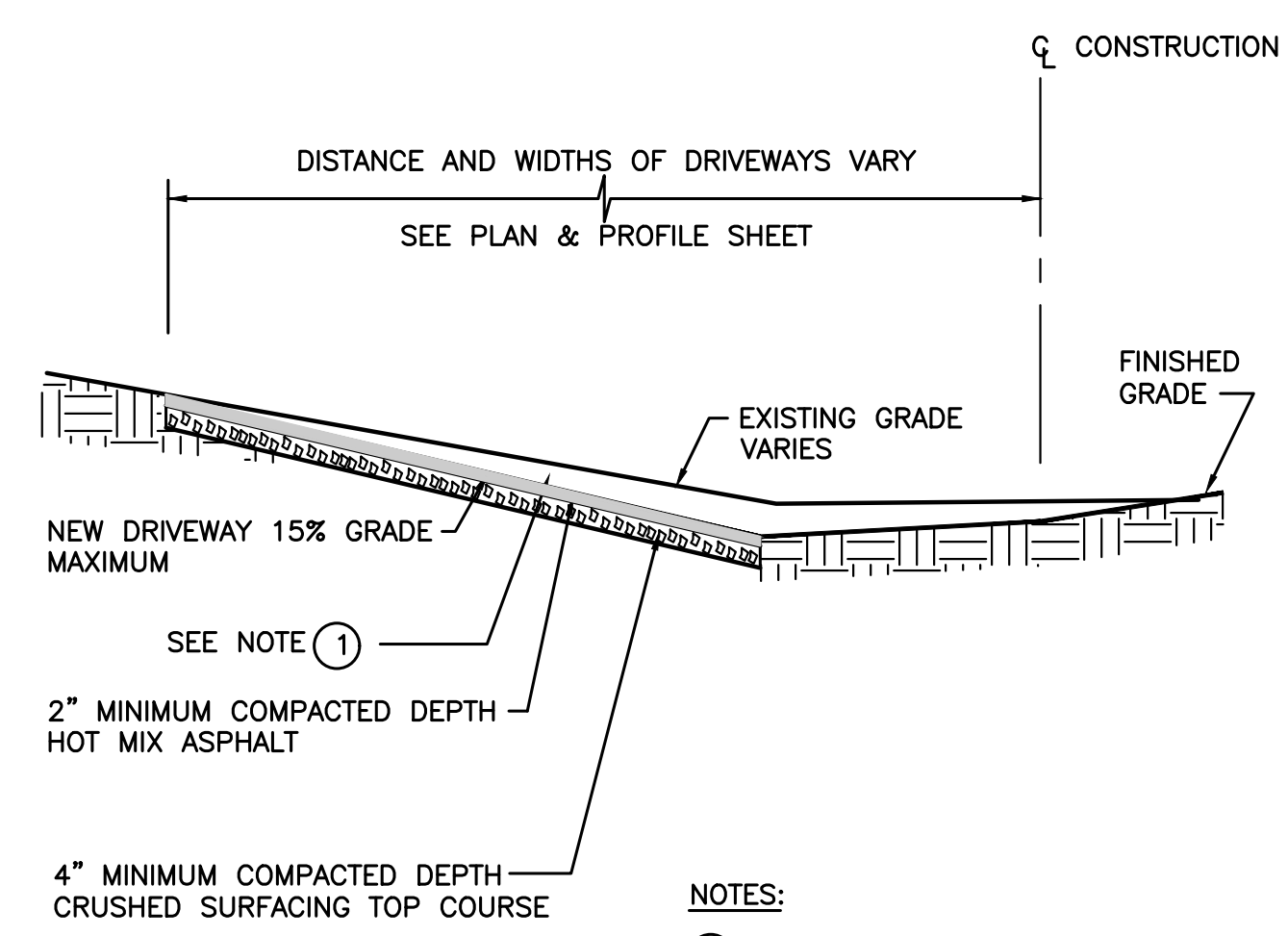
- NOTES:**
- CONCRETE SHALL BE 3000 PSI MIN. (CL 3000), 3 1/2" SLUMP (MAX).
 - COMPACT SUBGRADE AND AGGREGATE TO 95% OF MAXIMUM DRY DENSITY (3" MIN.).
 - FINISH SHALL BE MEDIUM BROOM PERPENDICULAR TO PEDESTRIAN TRAFFIC UNLESS OTHERWISE DIRECTED.
 - MATCH EXISTING BORDER.
 - SEE CONCRETE JOINTS DETAIL T-31 FOR SURFACE, CONTRACTION, AND EXPANSION JOINTS.
 - ALL EXISTING EDGES SHALL BE SAWCUT.
 - CROSS SLOPE OF PLANTER STRIP SHALL BE 2% (TYP.) AND 4:1 (MAX.).

SIDEWALK DETAIL					T-07
REVISIONS	DATE	DRAWN	DESIGNED	MODIFIED	



- NOTES:**
- MAINTAIN ROLLED CONCRETE CURB AND GUTTER FLOWLINE THROUGH THE TRANSITION SECTION TO THE VERTICAL CONCRETE CURB AND GUTTER.
 - TRANSITION FROM TOP BACK OF ROLLED CONCRETE CURB AND GUTTER TO TOP BACK OF VERTICAL CONCRETE CURB AND GUTTER.
 - CONCRETE CURB TRANSITION SECTION SHALL BE USED AT ALL LOCATIONS SHOWN ON PLANS WHERE VERTICAL CONCRETE CURB AND GUTTER MEETS ROLLED CONCRETE CURB AND GUTTER.

CONCRETE CURB TRANSITION SECTION
 NOT TO SCALE



- NOTES:**
- CONTRACTOR TO SLOPE DRIVEWAY SHOULDERS AS REQUIRED.

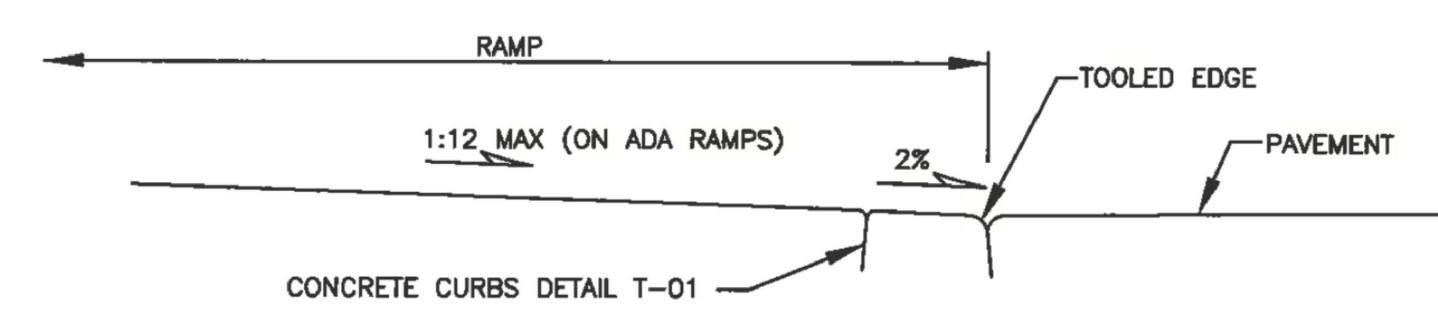
HMA DRIVEWAY REPAIR
 NOT TO SCALE

DRIVEWAY SCHEDULE

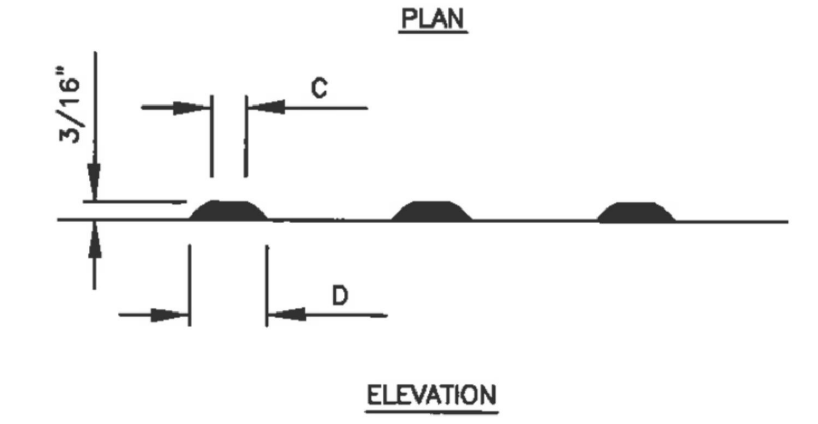
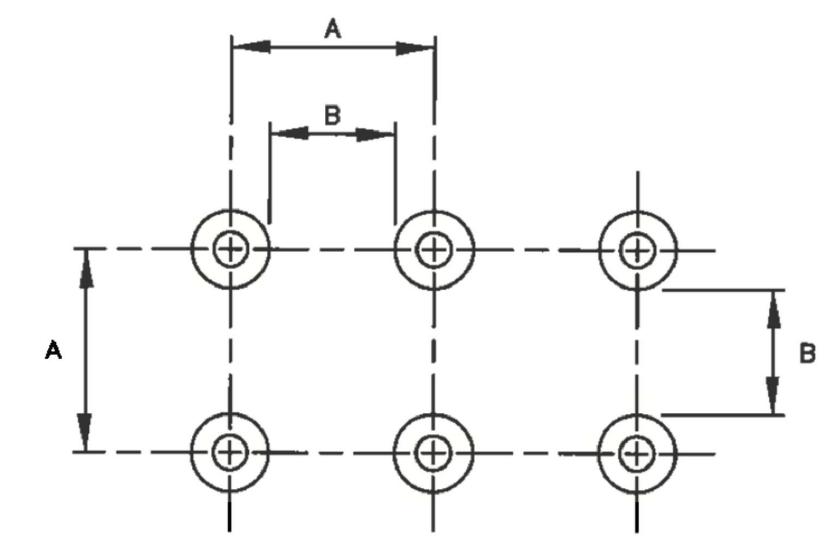
STATION	SIDE	CEMENT CONCRETE DRIVEWAY APPROACH				BEYOND APPROACH	
		TYPE (1)	WIDTH (FT)	WING LENGTHS (W, E)	AREA (SY)	DRIVEWAY REPAIR MATERIAL	AREA (SY)
27+36	LT	CR	20	2', 5'	13	ASPHALT	8
28+29	RT	CR	20	2', 2'	10	ASPHALT	8

(1) CR - COMMERCIAL W/ ROLLED CURB

M:\WOODLAND\19624-Guild Road and W. Scott Ave\01 Design\PLANS\SET\00-Plans\BNSF\Civil\ROAD DET.dwg, 5/18/2022, 2:22 PM, YVONNE PAWTOVSKI



RAMP LIP DETAIL

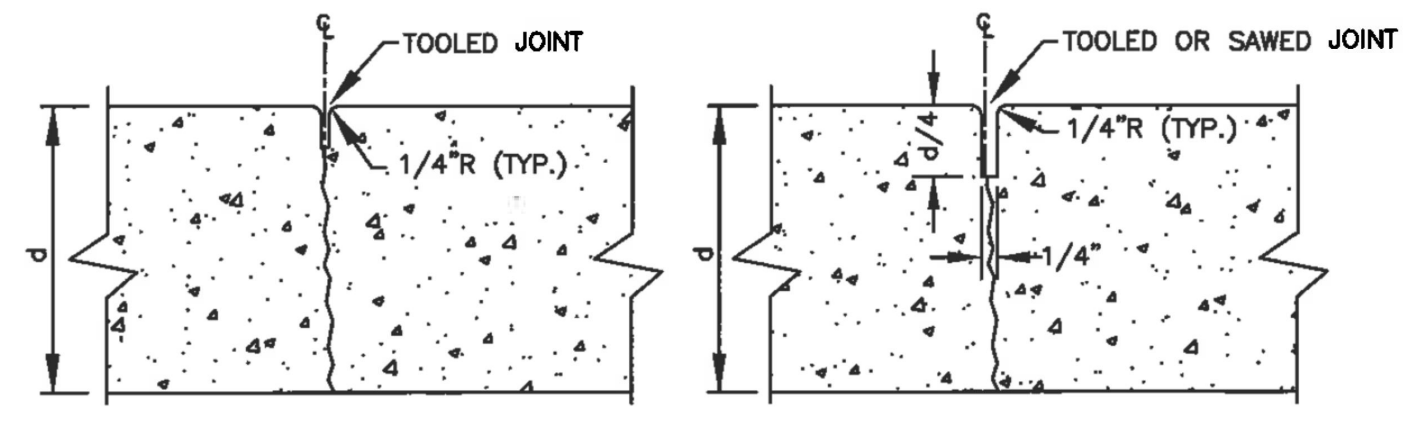


	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4"
D	7/8"	1 7/16"

NOTES:

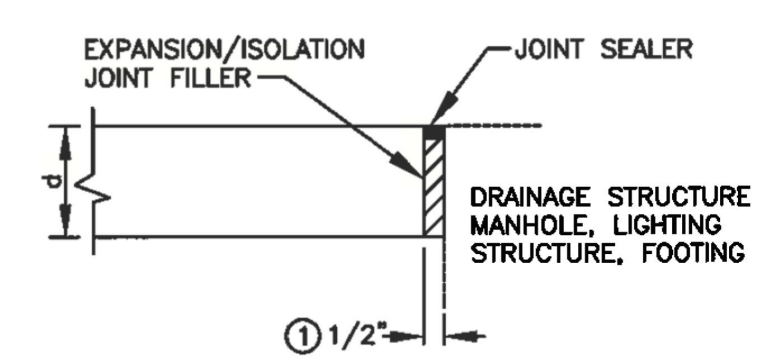
1. DETECTABLE WARNINGS SHALL BE MANUFACTURED USING THE MATERIALS SPECIFIED ON THE PLAN SHEETS WITH THE DOME DIMENSIONS AND SPACING SHOWN AND INSTALLED PER THE MANUFACTURER'S RECOMMENDED PROCEDURES.
2. DETECTABLE WARNINGS SHALL BE INSET INTO NEW CONCRETE WITH NO AIR TRAPPED UNDERNEATH. GLUED ON OR NAILED DOWN PRODUCTS ARE NOT ACCEPTABLE FOR NEW CONSTRUCTION.
3. SAFETY YELLOW TRUNCATED DOMES ARE REQUIRED UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR.

DETECTABLE WARNING PATTERN DETAIL



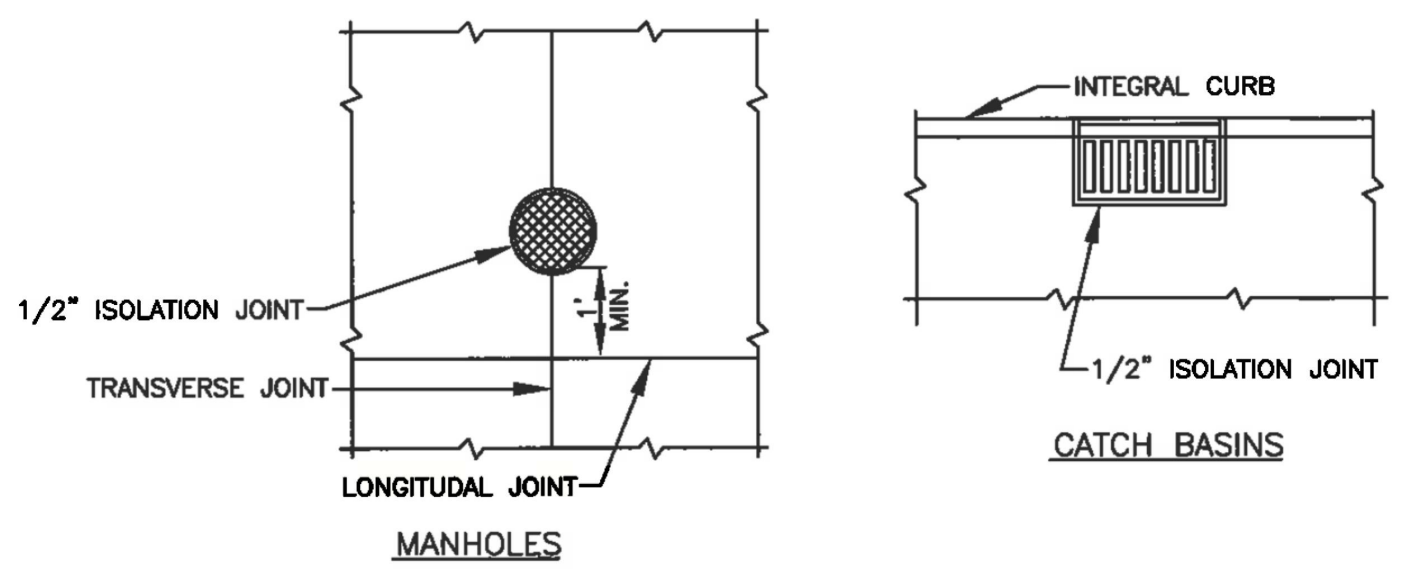
SURFACE JOINT

CONTRACTION JOINT



EXPANSION/ISOLATION JOINT DETAIL

① 3/8" JOINT FILLER FOR SIDEWALKS
 ADA RAMPS AND DRIVEWAYS
 (PER WSDOT 9-04)



MANHOLES

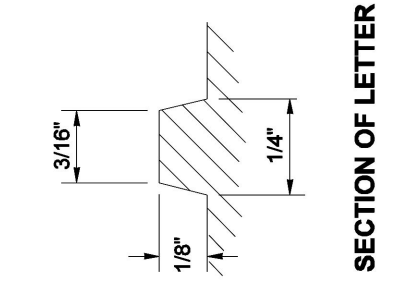
NOTES:

1. CONTRACTION JOINTS MAY BE USED IN PLACE OF SURFACE JOINTS.
2. CONSTRUCTION COLD JOINTS MAY BE USED IN PLACE OF CONTRACTION JOINTS.
3. CONCRETE PAVEMENT LOAD TRANSFER REQUIREMENTS ACROSS JOINTS SHALL BE DETERMINED BY PCC PAVEMENT DESIGN.
4. PARALLEL JOINTS SHALL BE SEPARATED BY A MINIMUM OF 2'.

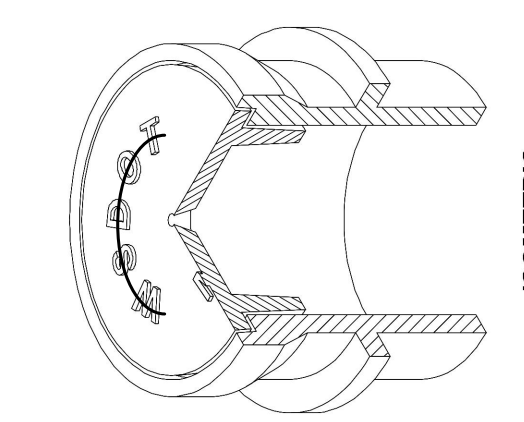
CONCRETE JOINTS

- NOTES
1. Dimensions may vary according to manufacturer.
 2. Base to be placed on a well compacted foundation.
 3. Monument case to be installed by contractor.
 4. See Standard Plan A-10-30 for Monument (grass disc) type to place in 2' O.D. galvanized pipe.

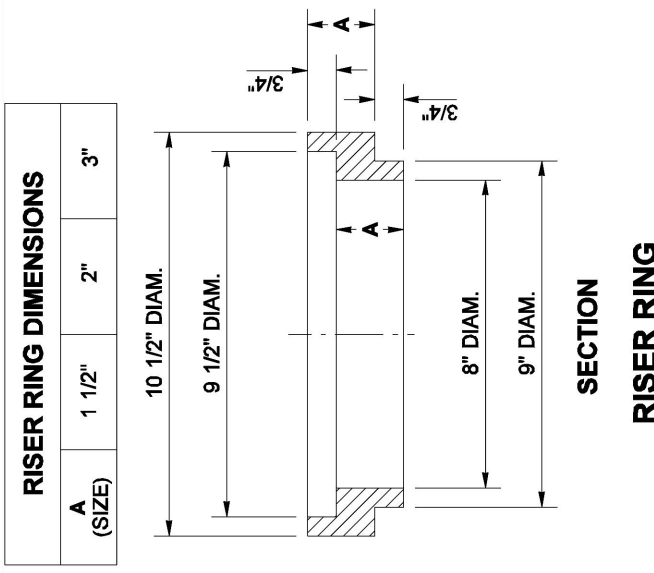
APPROXIMATE WEIGHTS	
CASE	60 LBS
COVER	19 LBS
TOTAL	79 LBS



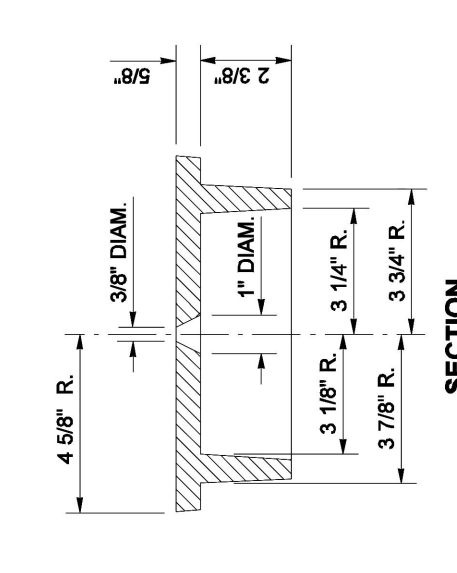
SECTION OF LETTER



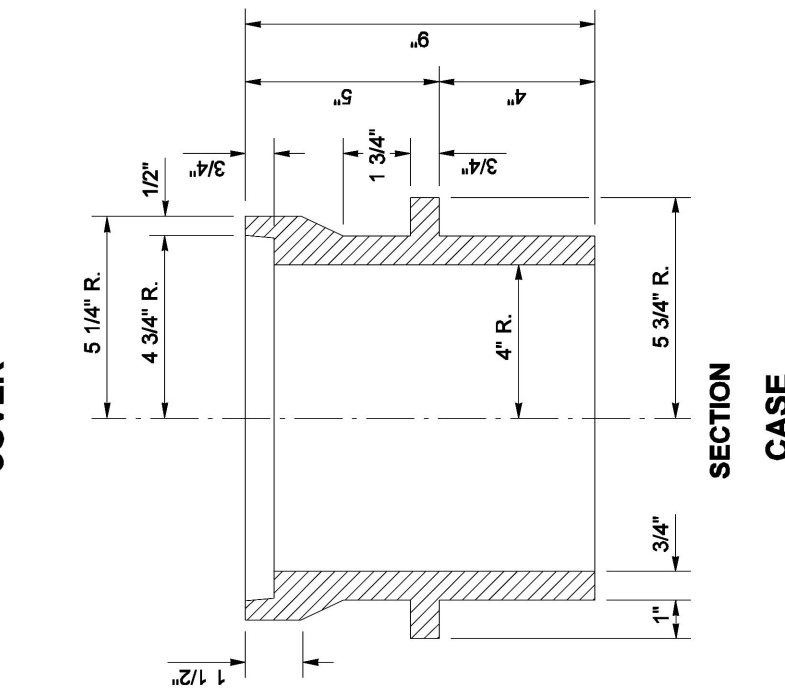
ISOMETRIC



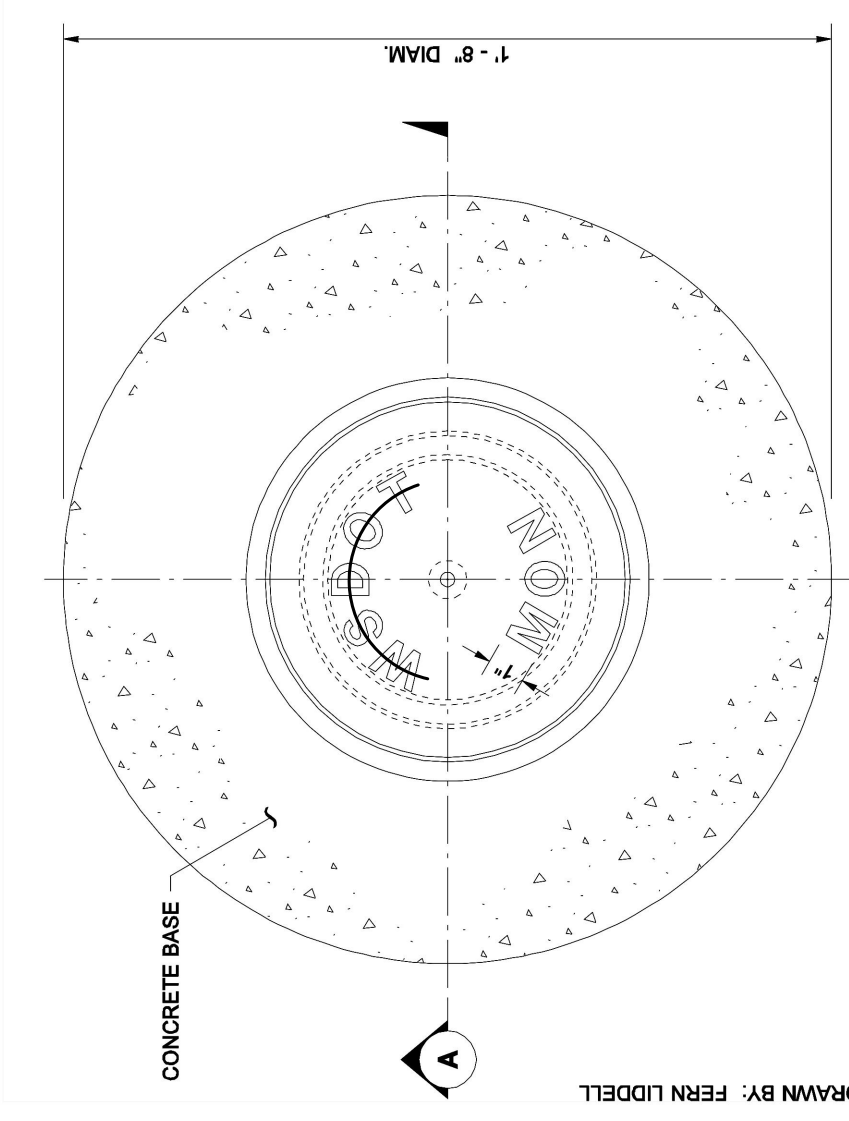
SECTION RISER RING



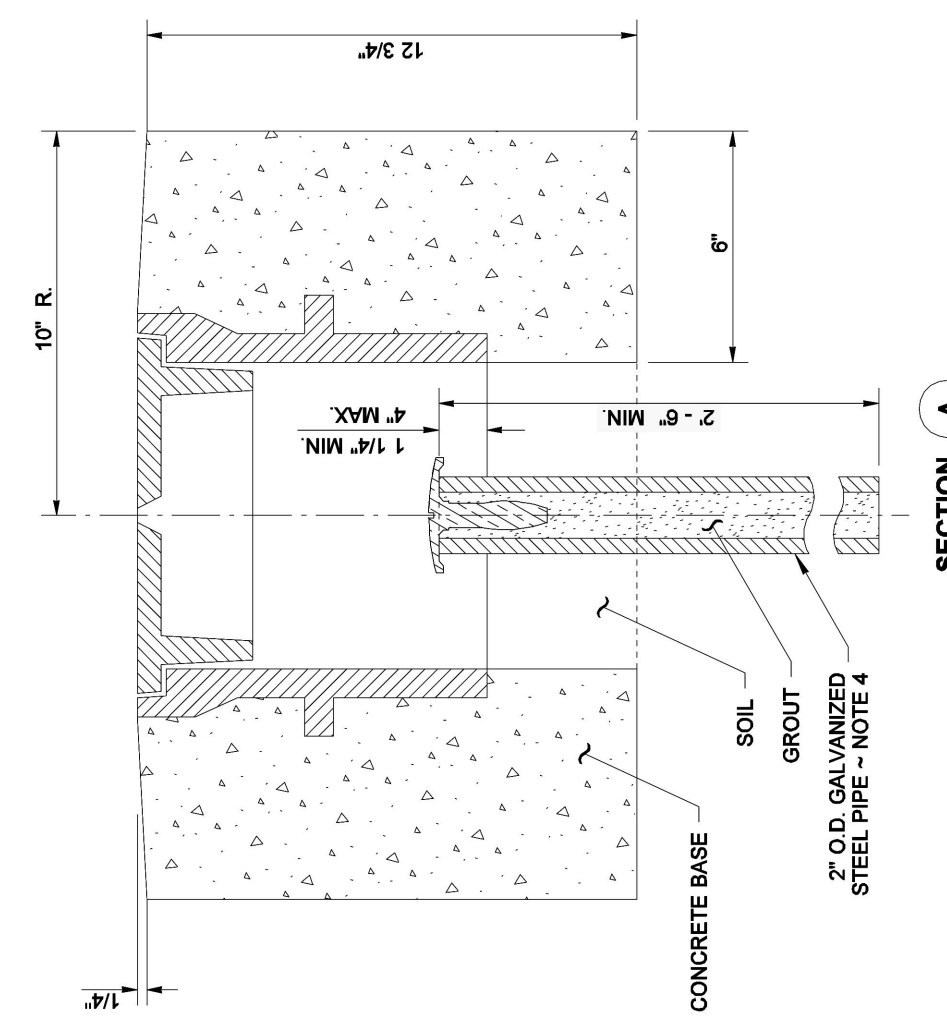
SECTION COVER



SECTION CASE



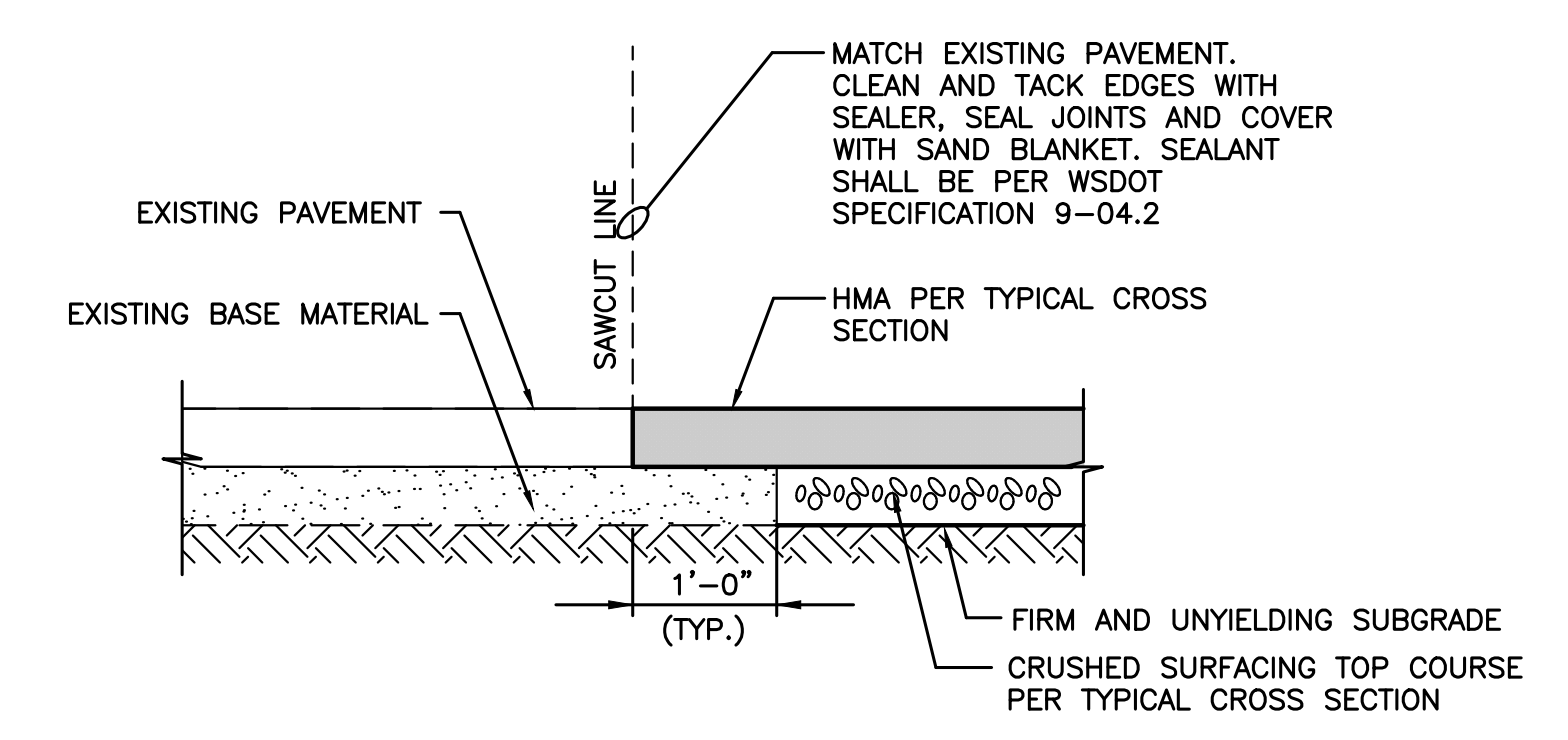
PLAN VIEW



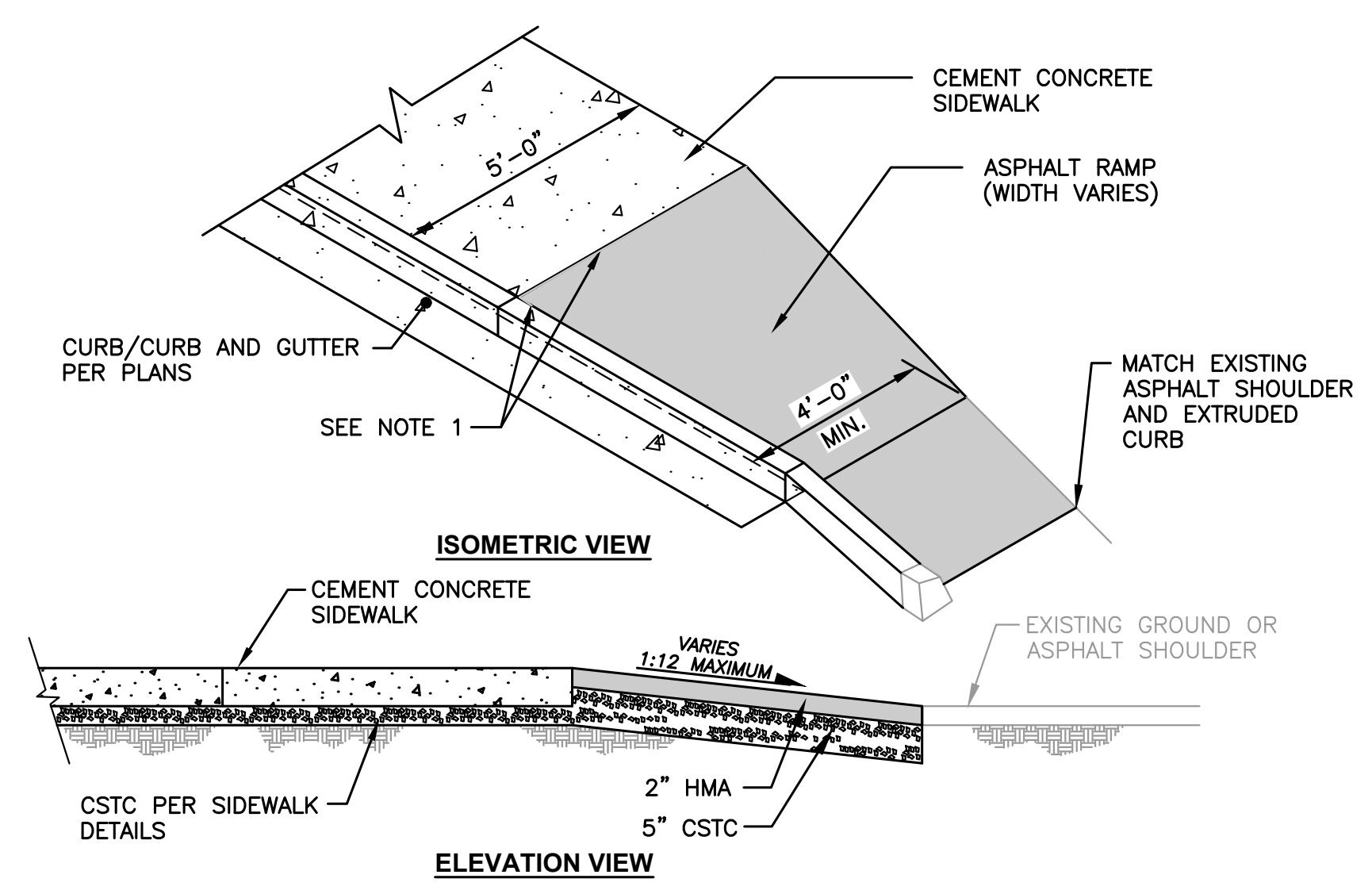
SECTION A
 INSTALLATION

RAMP LIP AND DETECTABLE WARNING PATTERN						T-21
APPROVED	REVISIONS	DATE	DRAWN	DESIGNED		
<i>Bart Stupp</i> 5/8/13						
PUBLIC WORKS DIRECTOR						

CONCRETE JOINTS						T-31
APPROVED	REVISIONS	DATE	DRAWN	DESIGNED		
<i>Bart Stupp</i> 5/8/13						
PUBLIC WORKS DIRECTOR						



BUTT JOINT DETAIL
 NOT TO SCALE



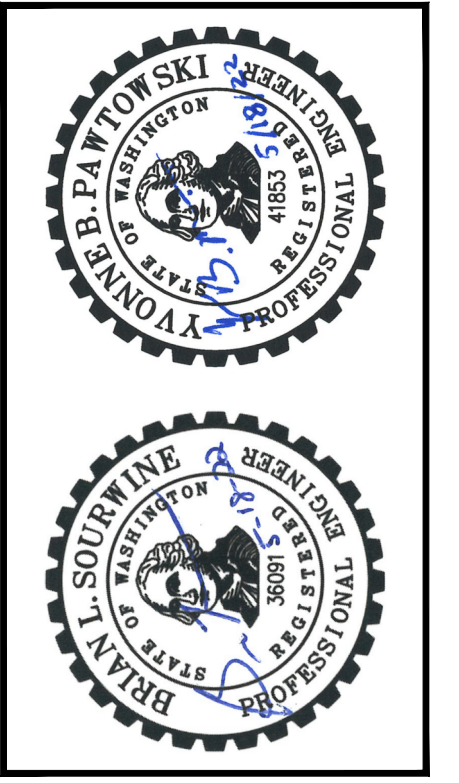
NOTES:

1. THE ASPHALT RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE ASPHALT RAMP SHALL BE AS FLAT AS FEASIBLE.

ASPHALT END RAMP
 NOT TO SCALE

DATE: MAY 2022	Y.B.P.	T.N.	T.N.
DRAWN:		CHECKED:	
APPROVED:		DATE:	

No.	REVISION	DATE	APPD



CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
 ROADWAY DETAILS

DRAWING: CD-2
SHEET: 14 OF: 18
JOB NO.: 19624.04
DWG-ROAD DET

M:\WOODLAND\19624-Guild Road and W. Scott Ave\01 Design\PLANSET\00-Planset-BNSF\Civil\ROAD DET.dwg, 5/18/2022, 2:22 PM, YVONNE PAWTOWSKI

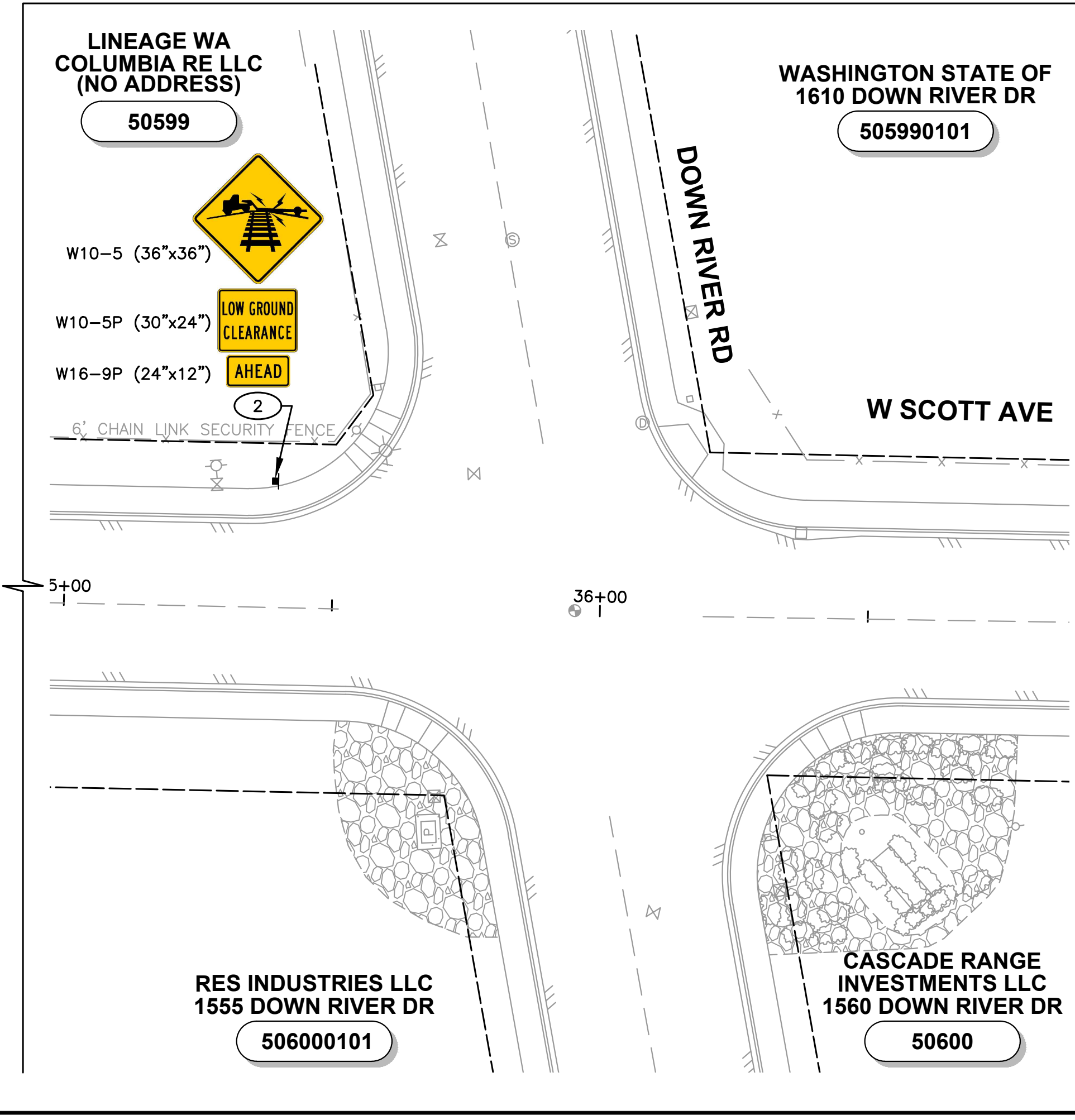
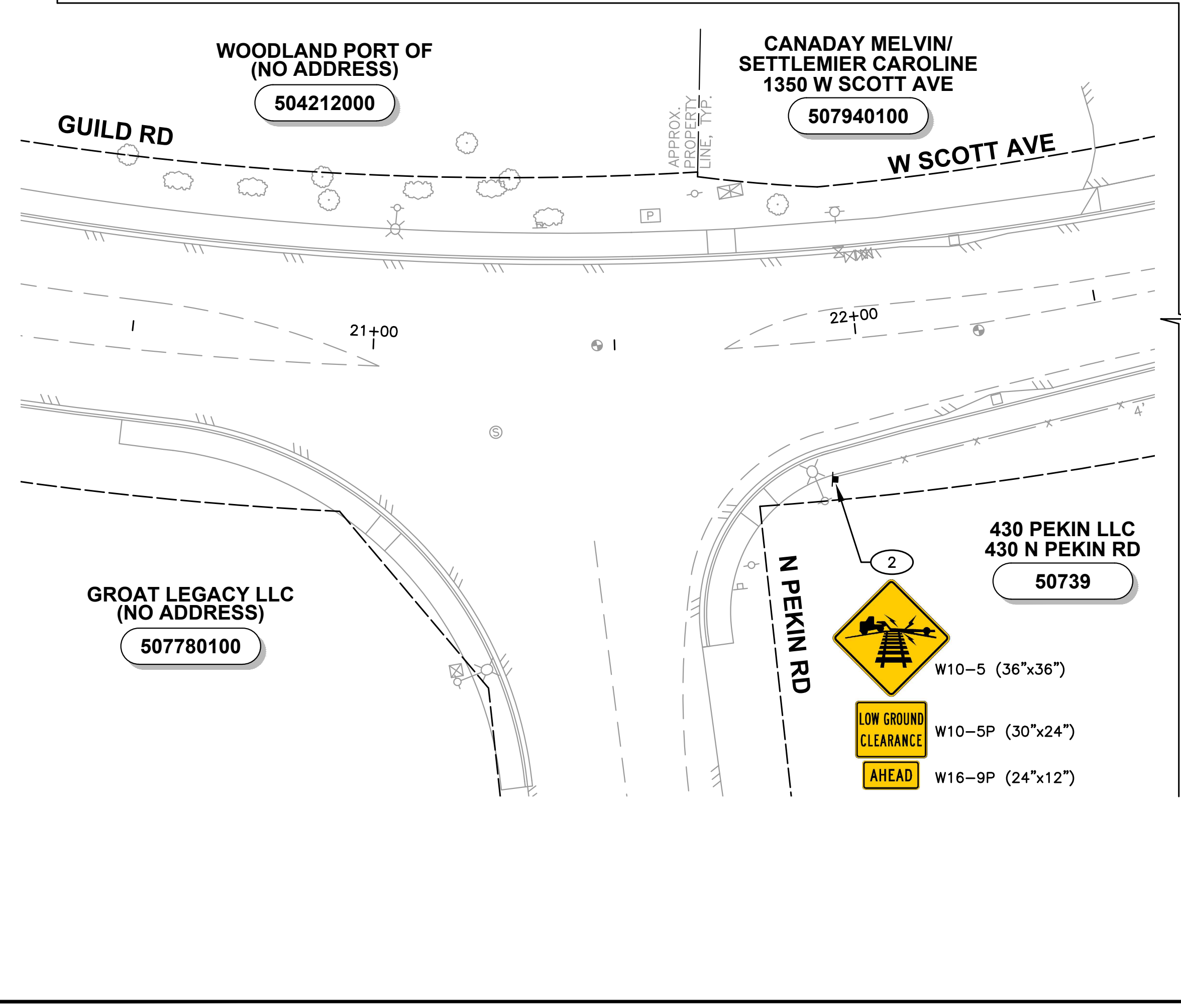
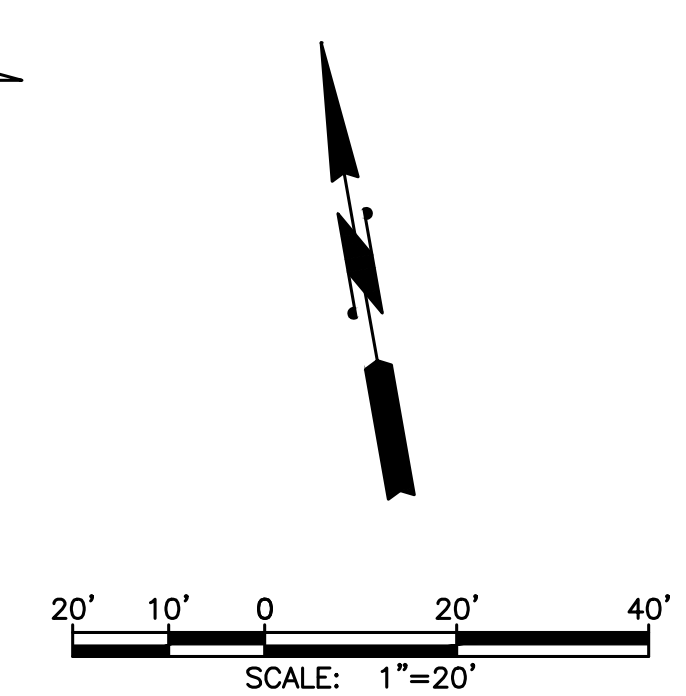
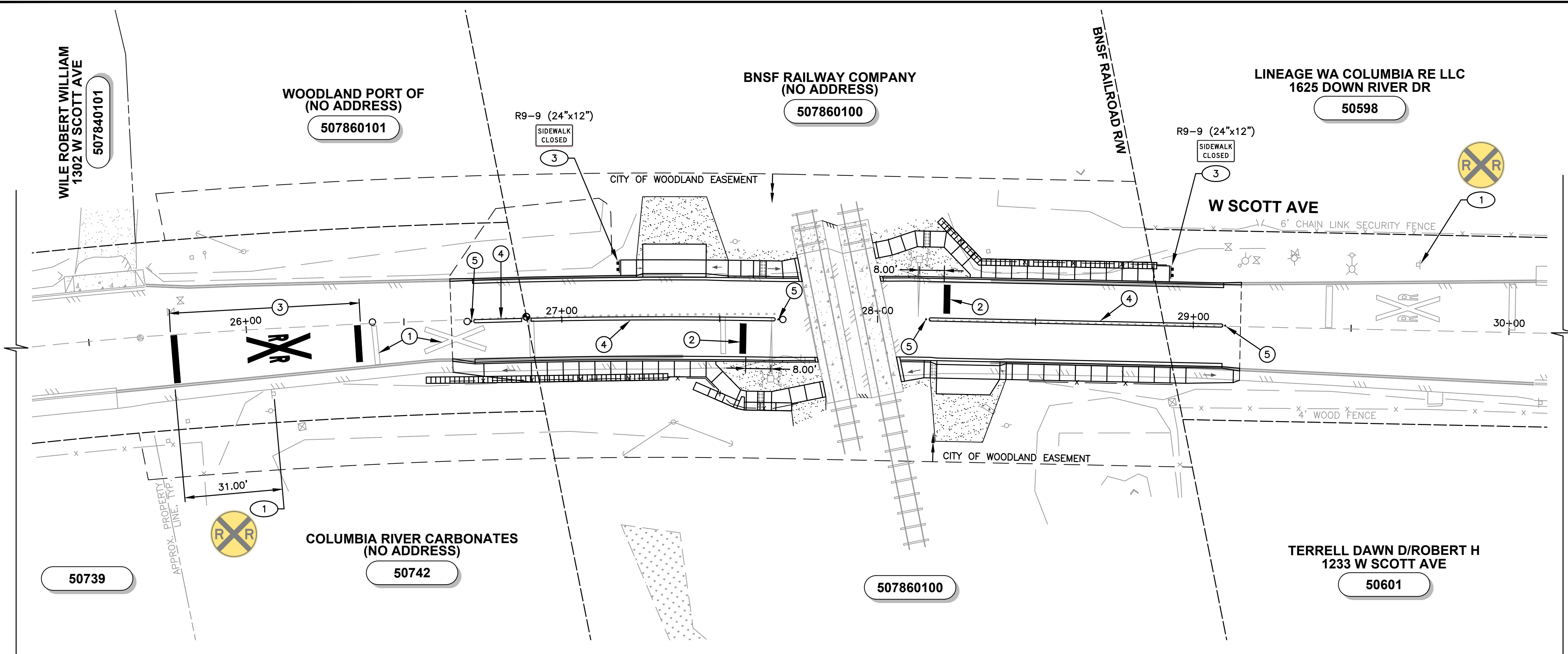
M:\WOODLAND\19624 Guild Road and W. Scott Ave\01 Design\PLANSET\00-PlanSet-BNSF\Civil\CHANNELIZATION.dwg, 5/18/2022 2:23 PM, YVONNE PAWTOWSKI

COWLITZ COUNTY
 FED. AID NO.: RAIL-6876(001)
 SECTION 46, T5N, R1W

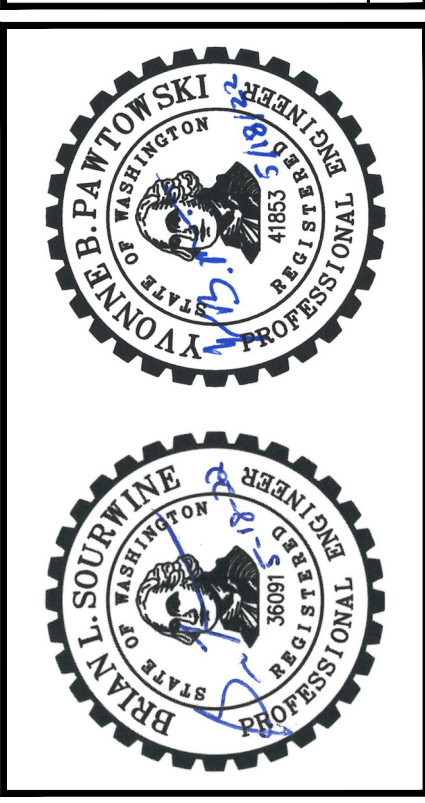
Gray & Osborne, Inc.
 CONSULTING ENGINEERS
 1130 RAINGER AVENUE SOUTH, SUITE 300
 SEATTLE, WASHINGTON 98144 • (206) 264-0860

DATE: MAY 2022	YBP	TN	BLS
DRAWN:		CHECKED:	APPROVED:

No.	REVISION	DATE	APPD

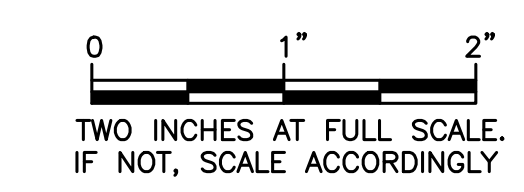


- GENERAL**
- ALL SIGN TYPES, COLORS, AND DIMENSIONS ARE STANDARD PER THE MUTCD, UNLESS OTHERWISE INDICATED.
 - SIGNS SHALL BE CONSTRUCTED ENTIRELY OF TYPE III OR TYPE IV REFLECTIVE SHEETING PER WSDOT STANDARD SPECIFICATIONS SECTION 9-28.12.
 - ALL PLASTIC PAVEMENT MARKINGS SHALL BE TYPE A - LIQUID HOT APPLIED UNLESS INDICATED OTHERWISE.
 - CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY PAVEMENT MARKINGS IMMEDIATELY FOLLOWING PAVING.
- CHANNELIZATION NOTES:**
- REMOVE EXISTING PLASTIC TRAFFIC MARKING.
 - INSTALL WHITE PLASTIC STOP LINE PER DETAIL SHEET CH-2.
 - INSTALL PAINTED RAILROAD CROSSING SYMBOL PER DETAIL SHEET CH-2.
 - PAINT ALL EXPOSED CURB SURFACE YELLOW.
 - INSTALL FLEXIBLE DELINEATOR POST (SURFACE MOUNT) PER DETAIL SHEET CH-2.
- SIGNING NOTES:**
- PROTECT EXISTING SIGNS DURING CONSTRUCTION.
 - INSTALL LOW GROUND CLEARANCE AHEAD WARNING SIGN.
 - INSTALL SIDEWALK CLOSED SIGN ON TYPE 2 BARRICADE.

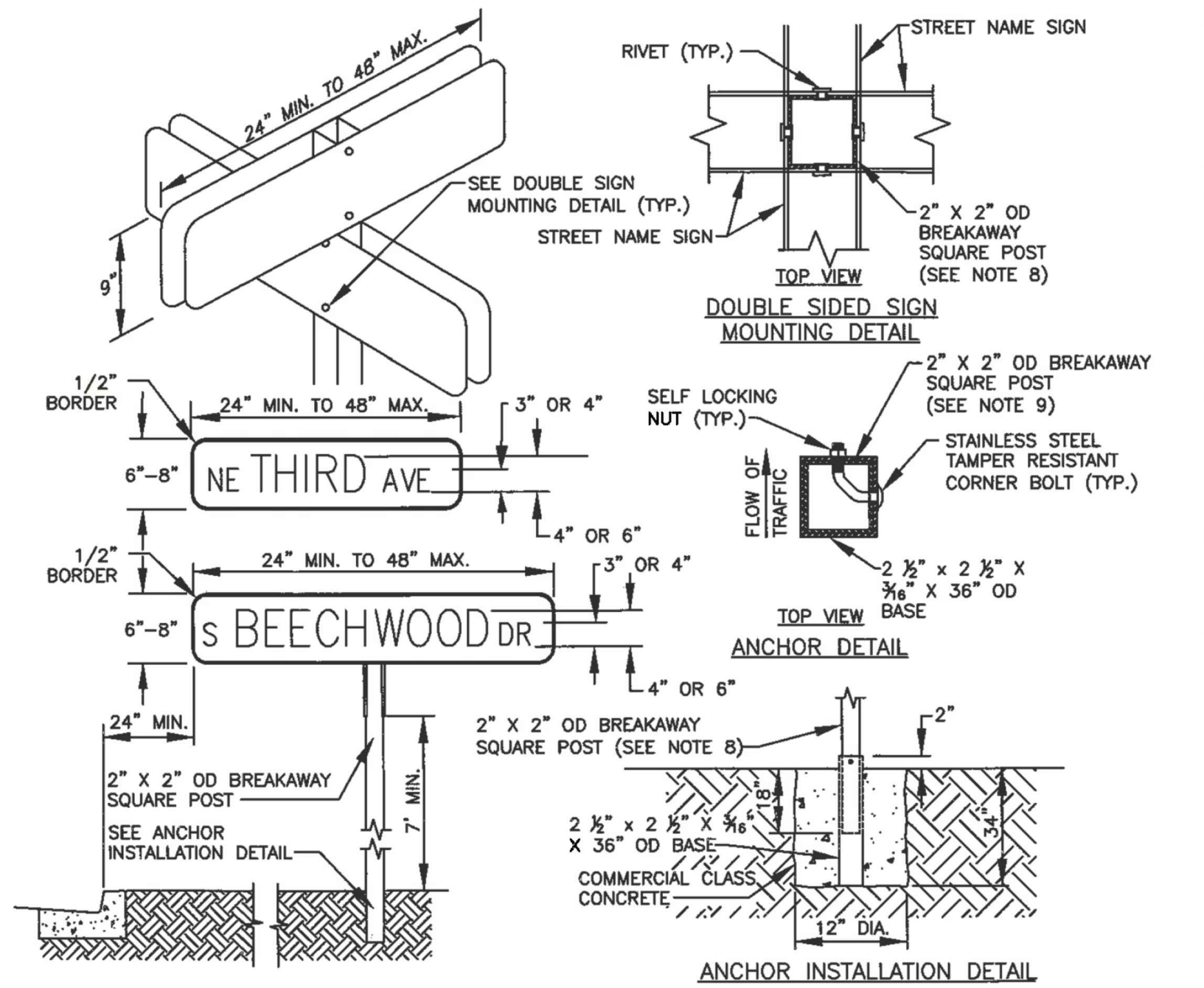


CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
 CHANNELIZATION AND SIGNING PLAN

DRAWING: **CH-1**
 SHEET: **15** OF: **18**
 JOB NO.: 19624.04
 DWG: CHANNELIZATION

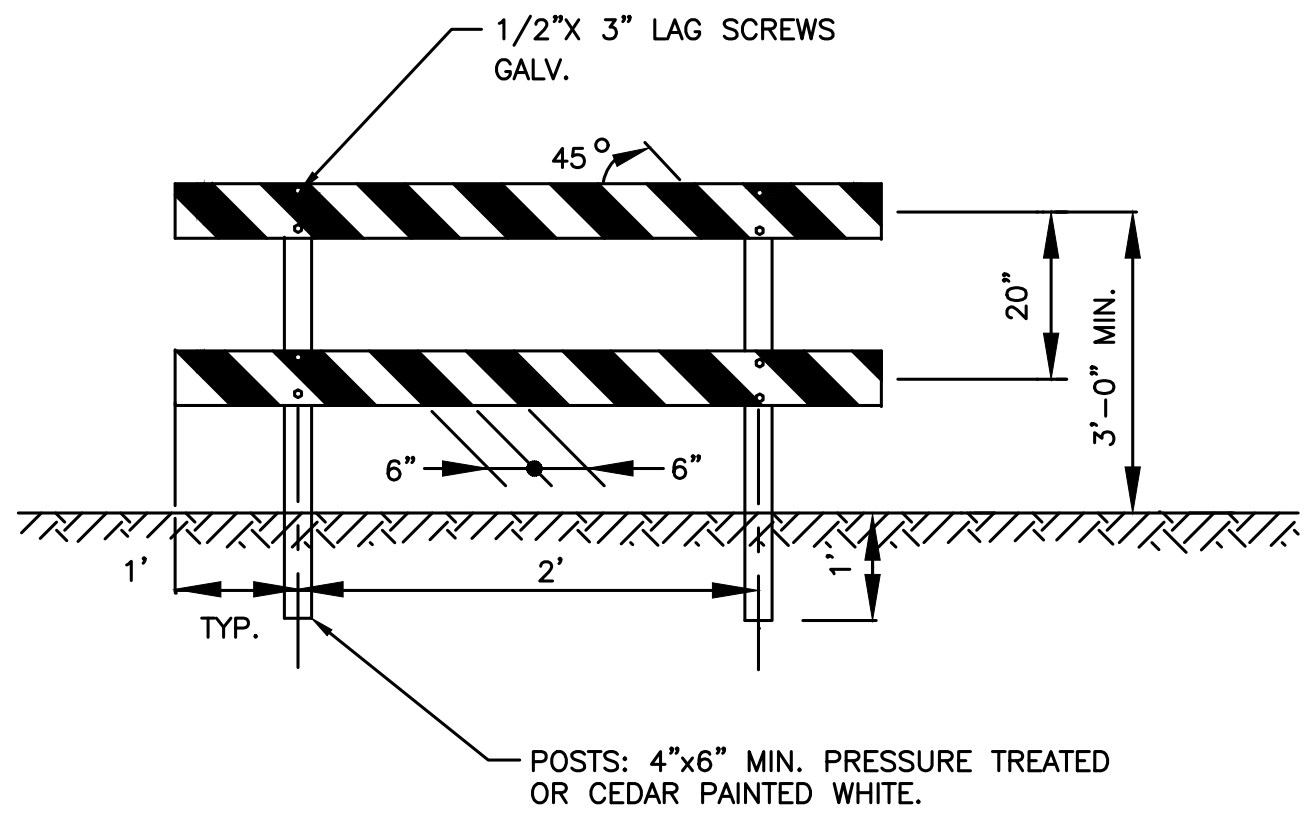


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- NOTES:**
- FOR STREETS 25-MPH AND UNDER, 4" UPPERCASE LETTERS FOR STREET NAME AND 3" UPPER CASE LETTERS FOR SUPPLEMENTARY LETTERING.
 - FOR SPEEDS OVER 25-MPH, 6" UPPERCASE LETTERS FOR STREET NAME AND 4" UPPER CASE LETTERS FOR SUPPLEMENTARY LETTERING.
 - SIGN FACE SHALL BE FABRICATED FROM CUBED CORNERED LENS (VIP, TYPE A DIAMOND GRADE) REFLECTIVE MATERIAL. FACE LEGEND AND BORDER SHALL BE WHITE ON A GREEN BACKGROUND - PRIVATE ROAD SIGNS SHALL BE WHITE ON A BROWN BACKGROUND. BORDER SHALL BE 1/2" IN WIDTH.
 - ALL SIGN MATERIALS AND ATTACHMENT HARDWARE SHALL CONFORM TO MUTCD AND WSDOT STANDARD SPECIFICATIONS.
 - WHEN SIGN REQUIRES TWO MESSAGE LINES, USE 2 SIGN BOARDS WITH AN ARROW ADDED TO THE BOARD (LEFT ARROW LEFT OF THE DIRECTION AND RIGHT ARROW ON THE RIGHT).
 - ENGINEER SHALL APPROVE FACE COPY PRIOR TO FABRICATION.
 - BREAKAWAY SIGN POSTS ARE TO BE "QUICK-PUNCH" WITH KNOCK OUTS IN PLACE.

GROUND MOUNTED STREET NAME SIGN				
APPROVED	REVISIONS	DATE	DRAWN	DESIGNED
<i>Paul Stipe</i>		2/24/15		T-39
PUBLIC WORKS DIRECTOR		DATE		

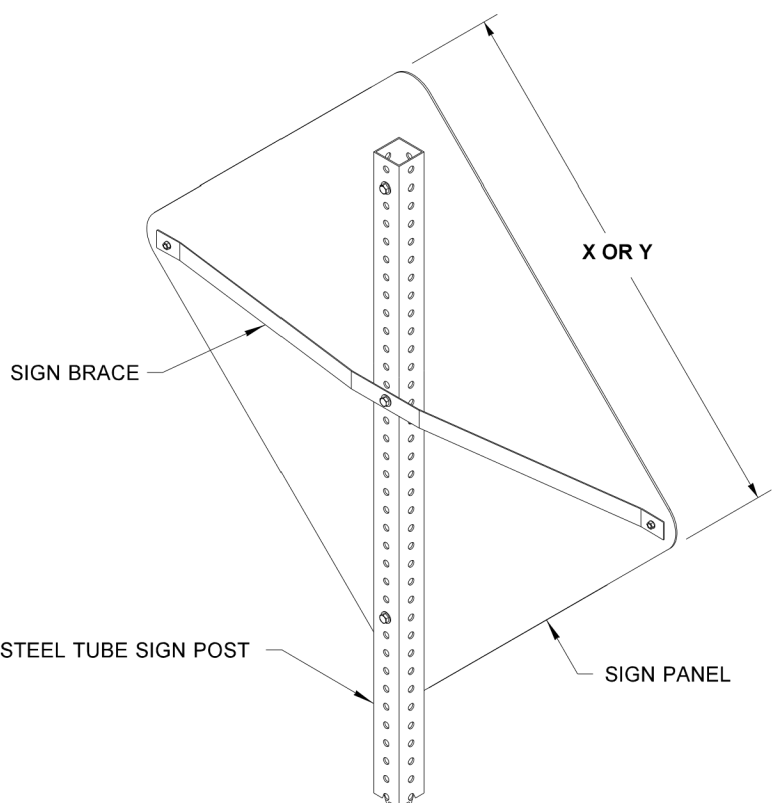


BARRICADE NOTES:

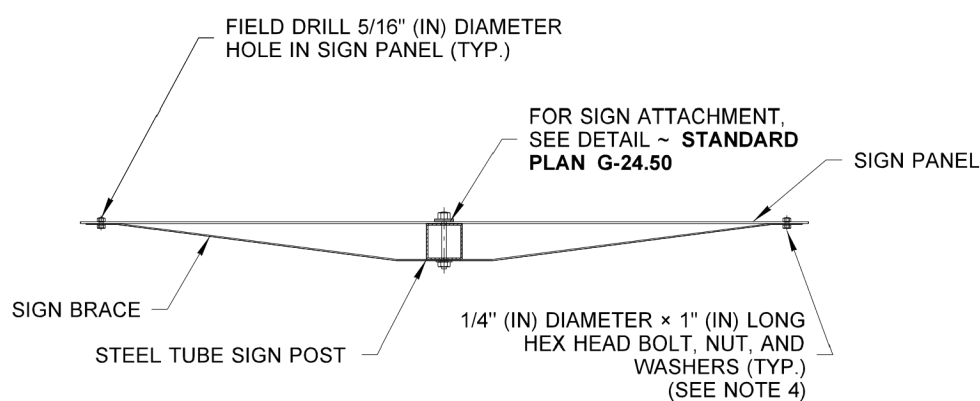
TYPE	III
WIDTH OF RAIL	8" MIN. 12" MAX.
LENGTH OF RAIL	7' MIN.
HEIGHT	5' MIN.
TYPE OF FRAME	POST
STRIPE	RED & WHITE REFLECTIVE SHEETING ASTM D4956 - TYPE II OR IV.

TYPE 2 PERMANENT BARRICADE DETAIL
NOT TO SCALE

- NOTES**
- Mounting brackets with steel straps shall be a stainless steel band and buckle system product or an approved equal. Mounting brackets shall be one bolt, flared leg, steel straps shall be 3/4" (in) wide and 0.030" (in) thick.
 - Sign braces are required for sign widths of 48" (in) or greater. For sign widths of 36" (in) or less, sign braces are only required when specified in the contract.
 - Sign braces are typically necessary on large sign panels that are exposed to high winds, traffic generated wind buffeting, or when snow thrown from plows might impact the sign.
 - A nylon washer shall be placed between the sign and the steel washer when the sign face has Type III, IV, VII or IX sheeting.
 - Signs 48" (in) or greater can be pinned together, back to back.
 - For signs installed back to back on a single post, no bracing is required.



SIGN BRACE ON STEEL TUBE

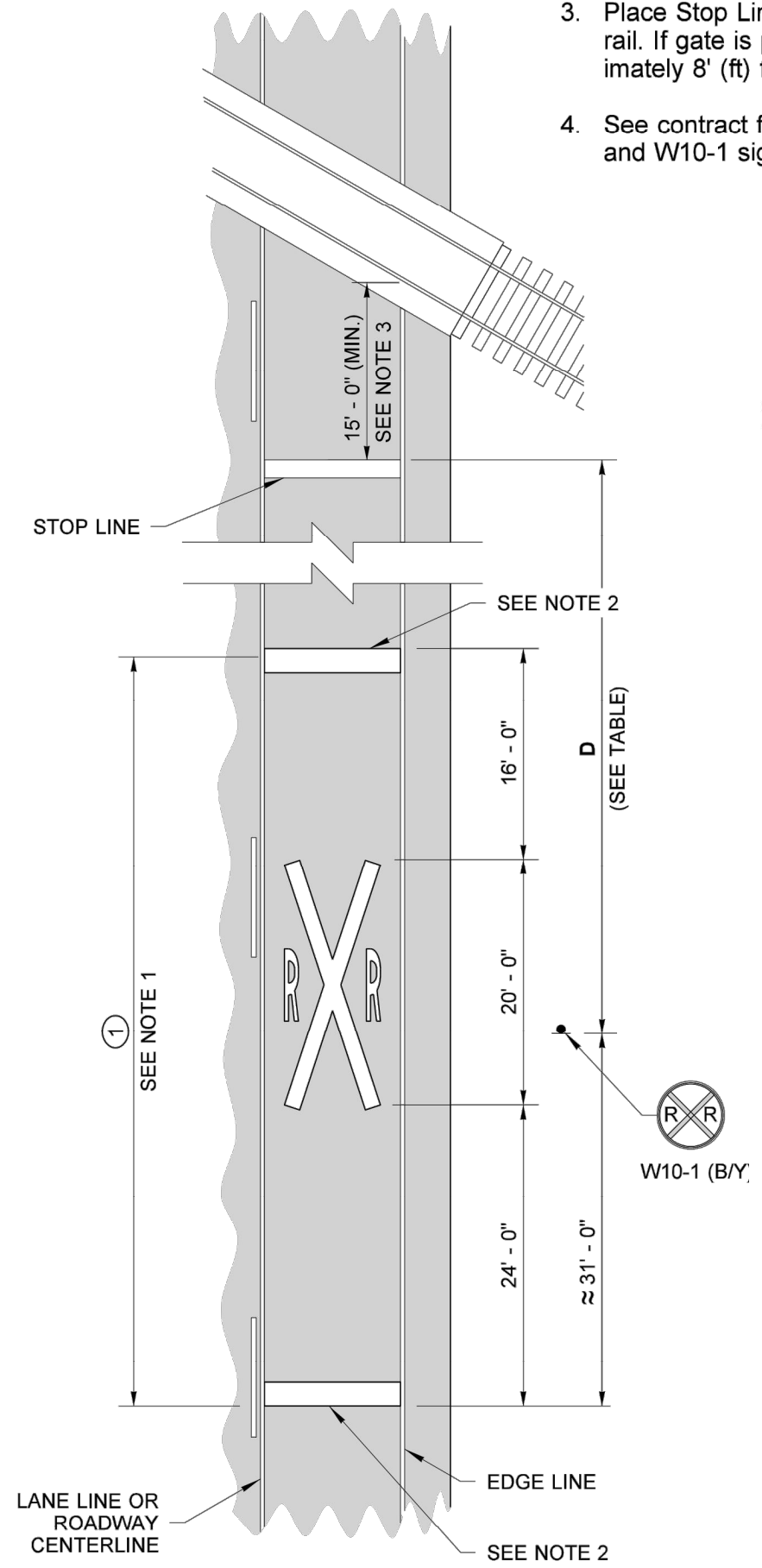


PLAN

SIGN BRACE DIMENSIONS			
SIGN TYPE			
	YIELD	DIAMOND-SHAPED	OTHERS
A	1/3 SIGN WIDTH - 1 3/4"	1/2 SIGN WIDTH - 2 1/4"	1/2 SIGN WIDTH - 1"
SIGN POST TYPE			
	4x6 OR 6x6 TIMBER POST	6x8 TIMBER POST	3" DIAM. STEEL PIPE
B	5 1/2"	7 1/2"	4 3/4"
			2 1/2"

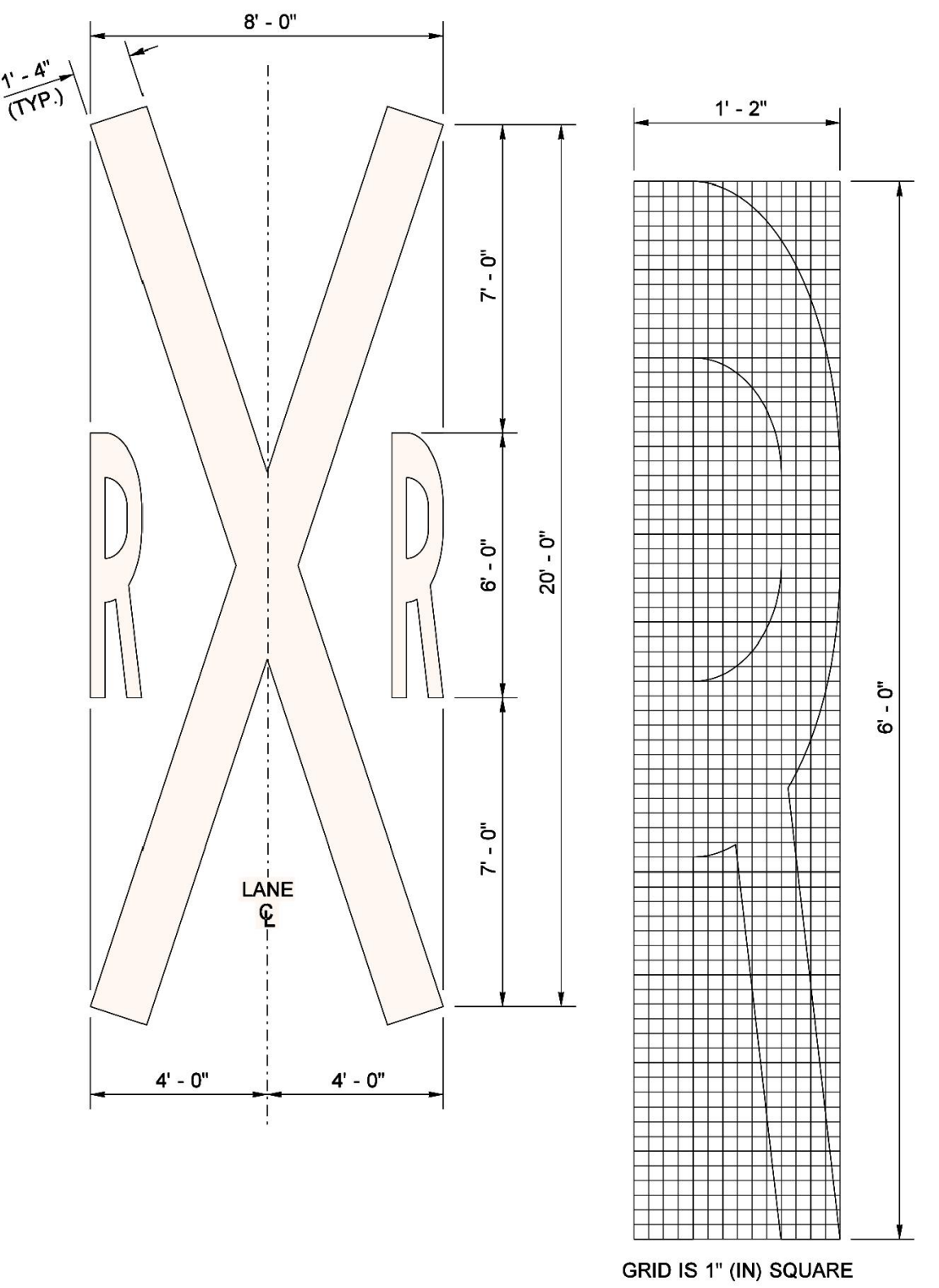
PORTION OF WSDOT STANDARD PLAN G-50.10-03
SIGN BRACING (MODIFIED)
NOT TO SCALE

- GENERAL NOTES**
- Bid Item "Railroad Crossing Symbol" includes "X" symbol, letters, and two 24" (in) white transverse lines.
 - 24" (in) white transverse line.
 - Place Stop Line 15' (ft) minimum from nearest rail. If gate is present, place stop line approximately 8' (ft) from RR gate.
 - See contract for location, material requirements, and W10-1 sign information.



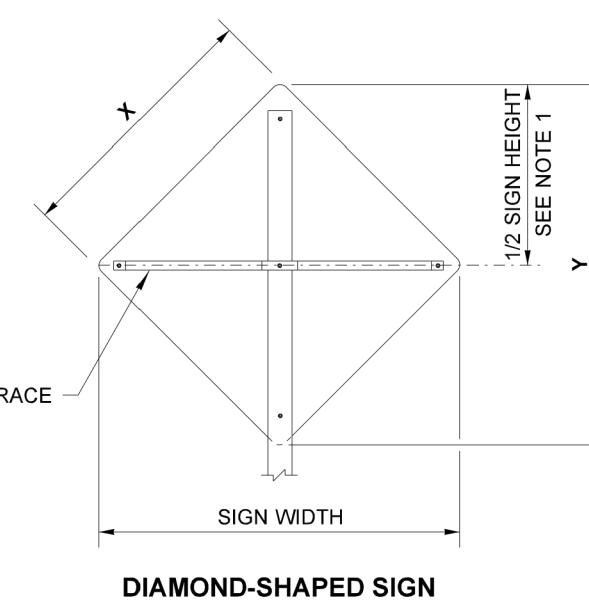
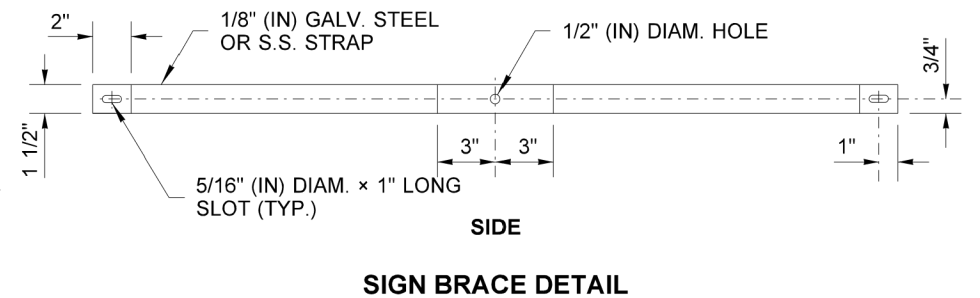
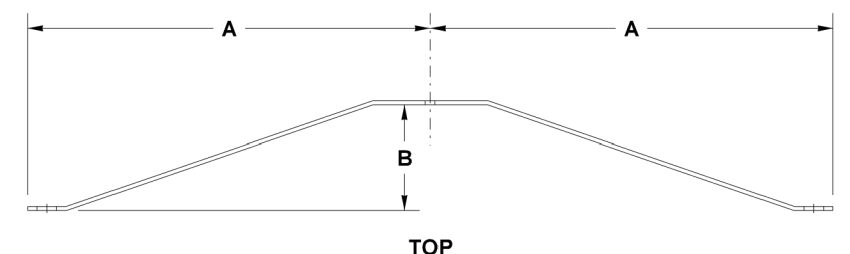
ALTERNATIVE LAYOUT

PORTION OF WSDOT STANDARD PLAN M-11.10-03
RAILROAD CROSSING LAYOUT (MODIFIED)
NOT TO SCALE

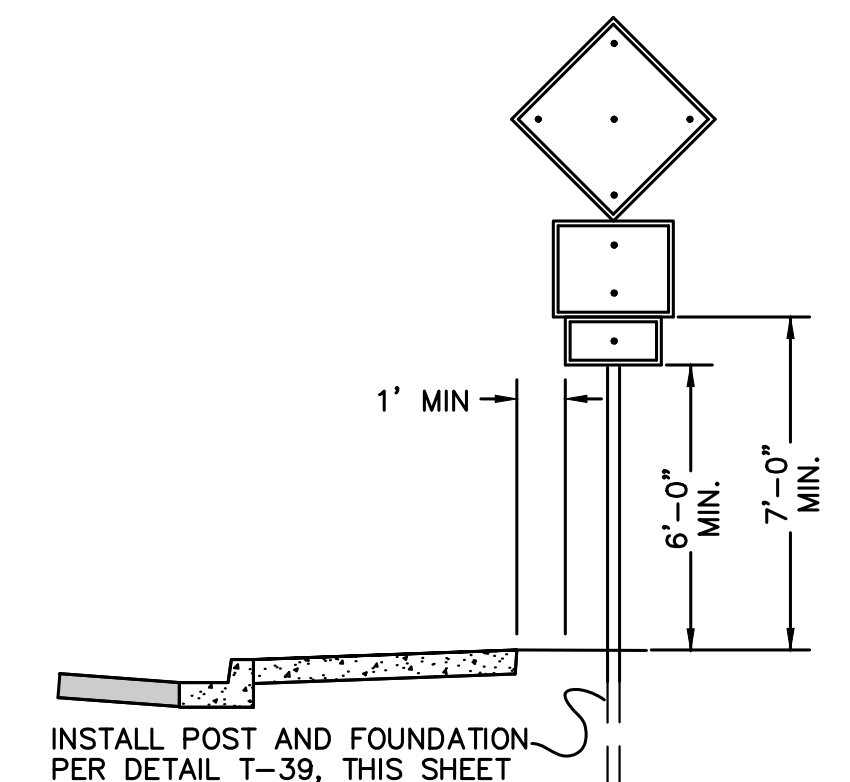


ALTERNATIVE SYMBOL DETAIL

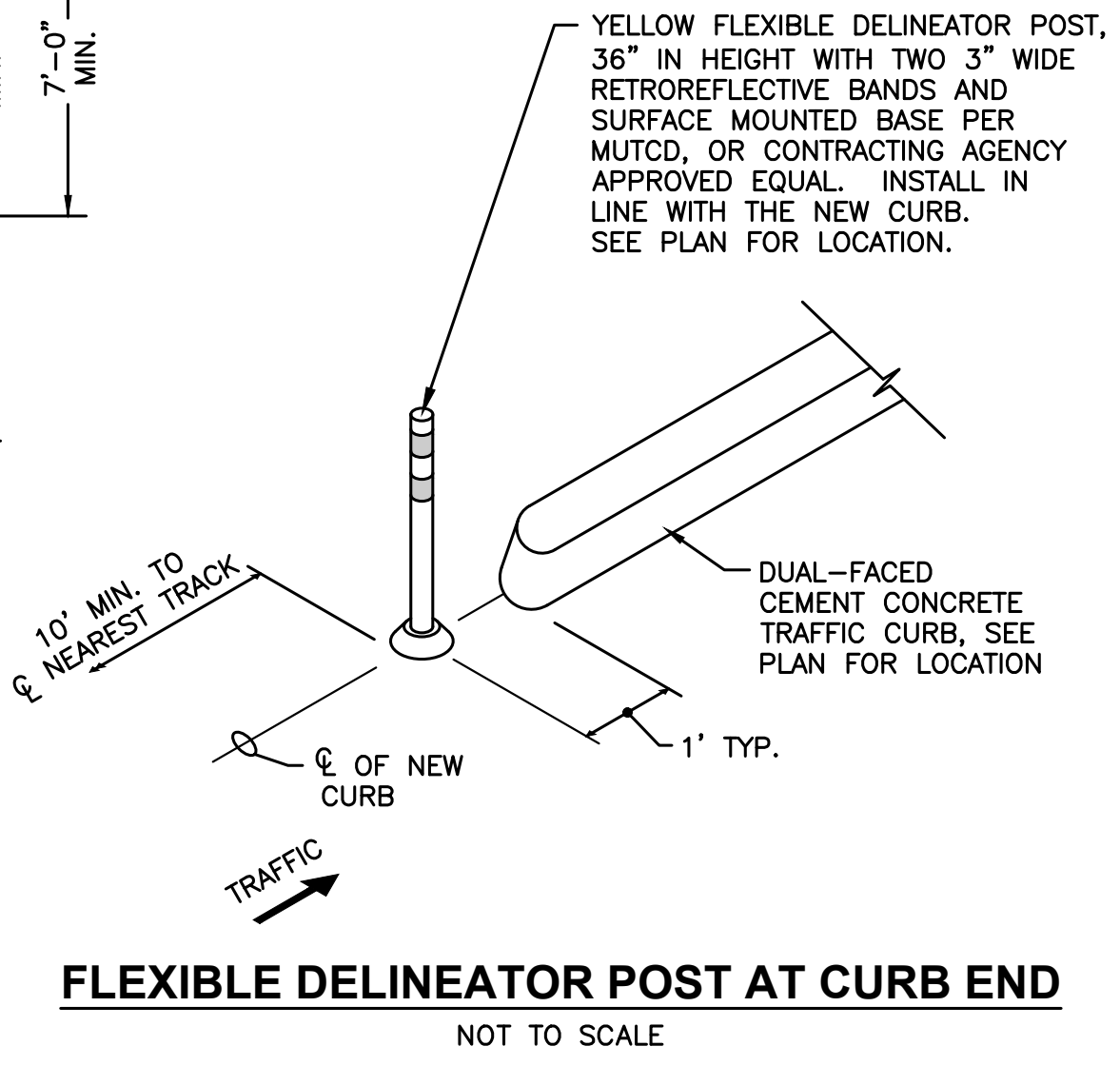
"R" DETAIL



PORTION OF WSDOT STANDARD PLAN M-24.60-04
SYMBOL MARKINGS MISCELLANEOUS (MODIFIED)
NOT TO SCALE



SIGN LOCATION DETAIL
NOT TO SCALE



COWLITZ COUNTY
FED. AID NO.: RAIL-6876(001)
SECTION 46, T5N, R1W

Gray & Osborne, Inc.
CONSULTING ENGINEERS
1130 RAINIER AVENUE SOUTH, SUITE 300
SEATTLE, WASHINGTON 98144 • (206) 284-0860

DATE: MAY 2022	YBP	TN	BLS
DRAWN:	CHECKED:	APPROVED:	

DATE	APPD
REVISION	
No.	

P. PAWTOVSKI
WASHINGTON STATE PROFESSIONAL ENGINEER
NO. 41853

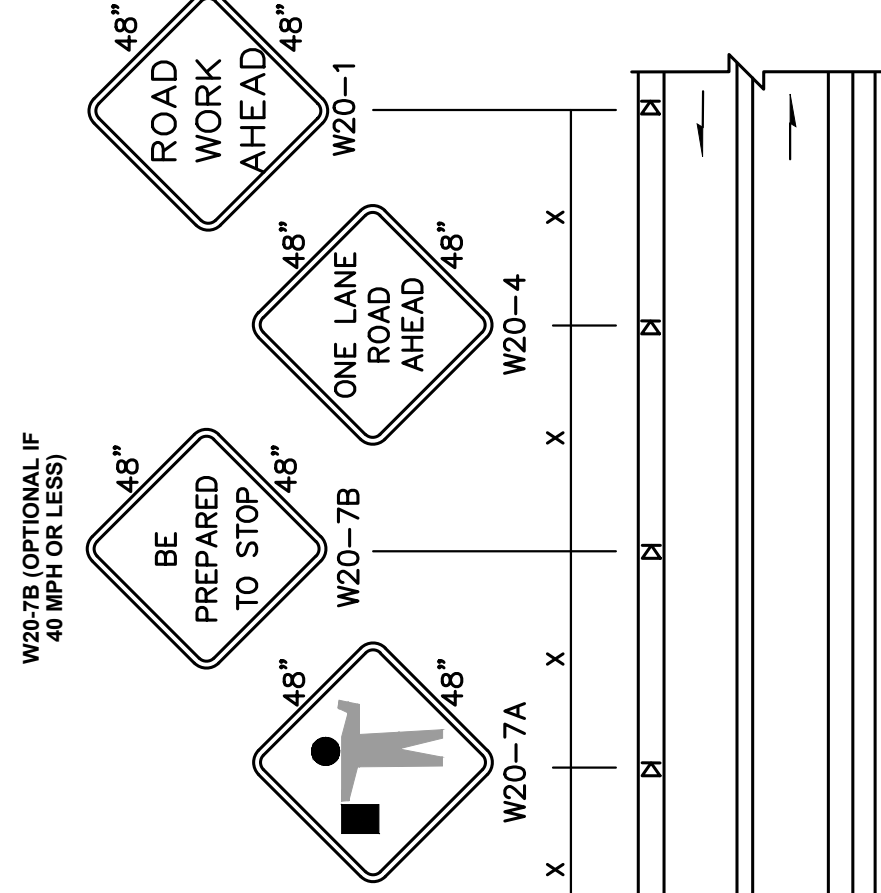
BRIAN SOUTHWINE
WASHINGTON STATE PROFESSIONAL ENGINEER
NO. 36091

CITY OF WOODLAND
COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
CHANNELIZATION AND SIGNING DETAILS

DRAWING: **CH-2**
SHEET: **16** OF: **18**
JOB NO.: 19624.04
DWG: CHANNELIZATION DET

BUFFER DATA	
LONGITUDINAL BUFFER SPACE = B	35
SPEED (MPH)	250
LENGTH (feet)	350' ±
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R	
HOST VEHICLE WEIGHT	> 22,000 lbs.
< 45 MPH	
100'	74'
PROTECTIVE VEHICLE (WORK VEHICLE) = R	
NO SPECIFIED DISTANCE REQUIRED	

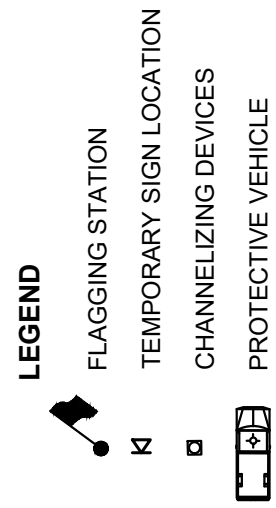
SIGN SPACING = X (1)
RURAL ROADS & URBAN ARTERIALS 35 / 40 MPH
(1) ALL SPACINGS MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.



CHANNELIZATION DEVICE SPACING (FEET)	
MPH	TANGENT
35/45	10 TO 20
	80

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**

NOT TO SCALE

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)	
SHOULDER WIDTH (feet)	Posted Speed (mph)
8'	35
10'	60
	90

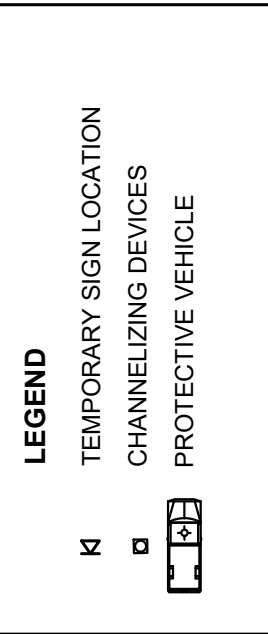
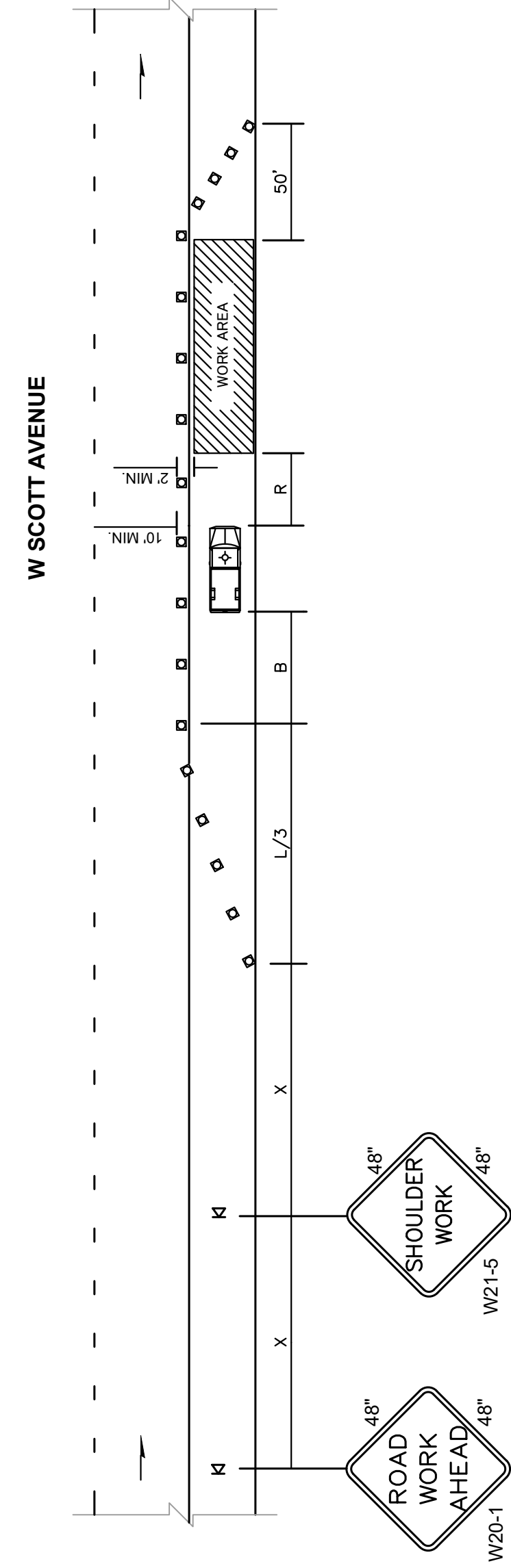
USE A 3 DEVICES TAPER FOR SHOULDERS LESS THAN 8'

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

**SHOULDER CLOSURE
TRAFFIC CONTROL DETAIL**

NOT TO SCALE

CHANNELIZATION DEVICE SPACING (feet)	
MPH	TANGENT
35/40	30
	80



NOTES

1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
2. ALL SIGNS ARE BLACK ON ORANGE.

COWLITZ COUNTY
FED. AID NO.: RAIL-6876(001)
SECTION 46, T5N, R1W

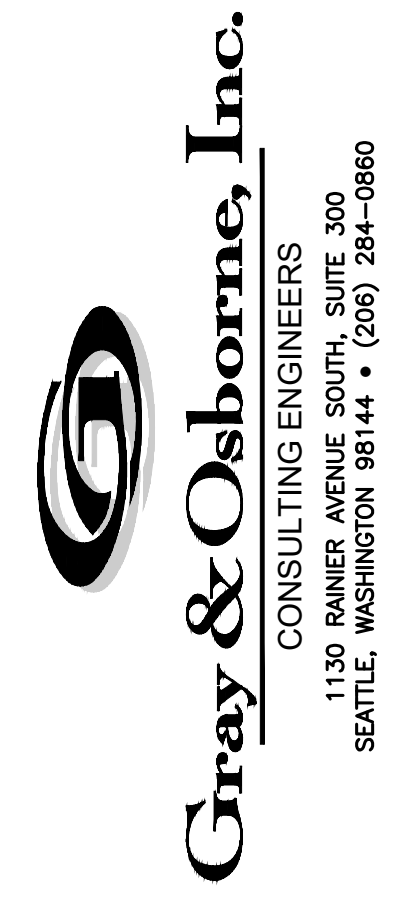


CITY OF WOODLAND
COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
TRAFFIC CONTROL DETAILS

DRAWING: **TC-1**
SHEET: **17** OF: **18**
JOB NO.: 19624.04
DWG: TRAFFIC CONT DET

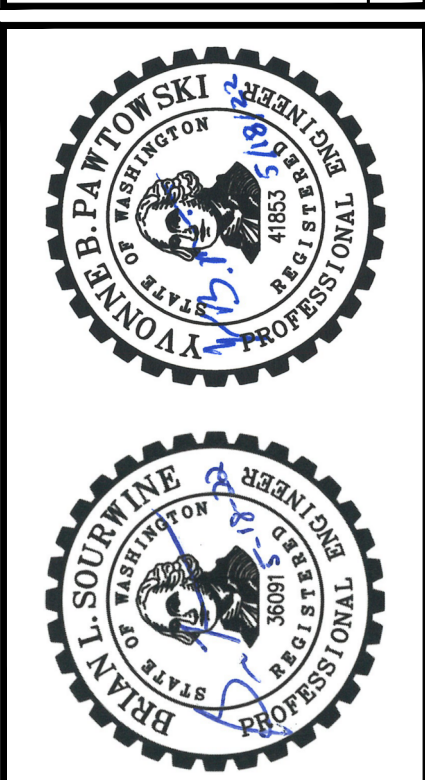
DATE: MAY 2022
DRAWN: YBP
CHECKED: TN
APPROVED: BLS

No.	REVISION	DATE	APPD



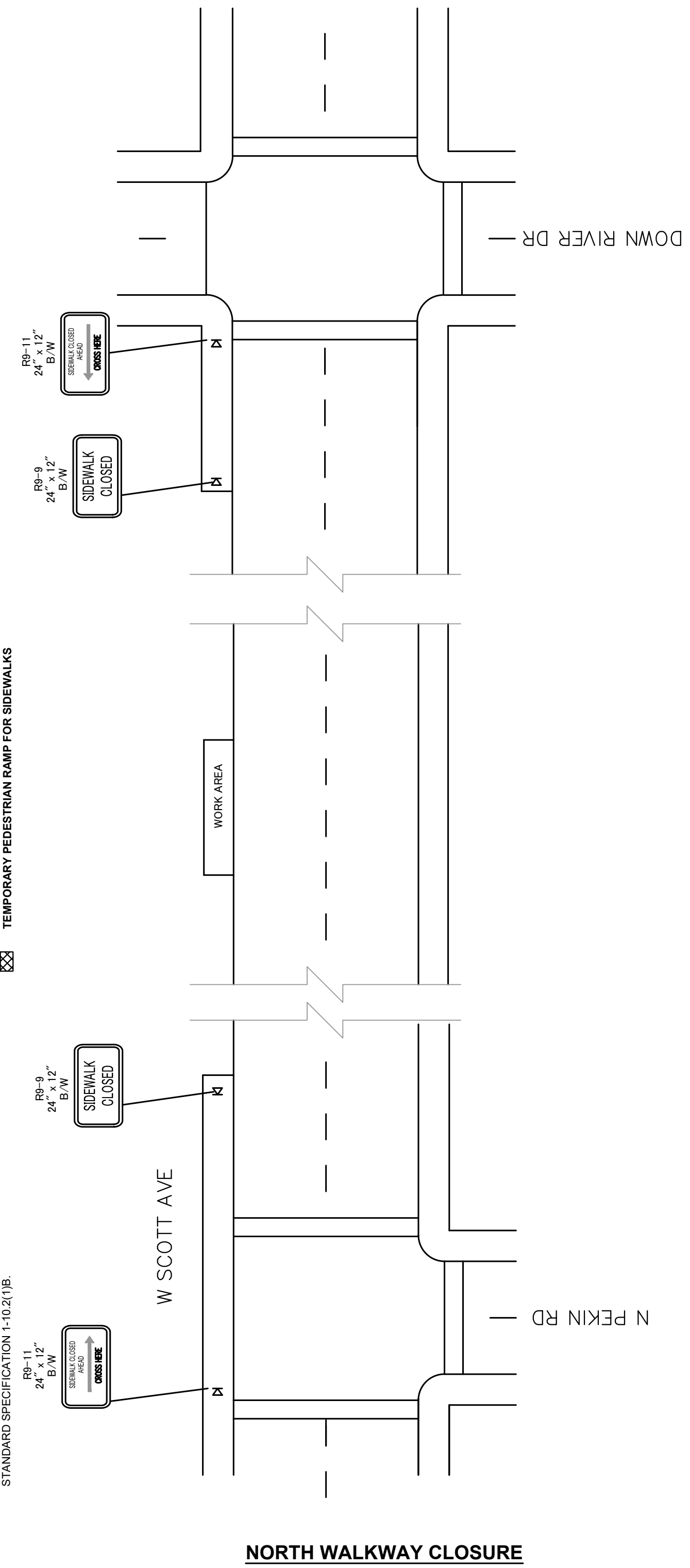
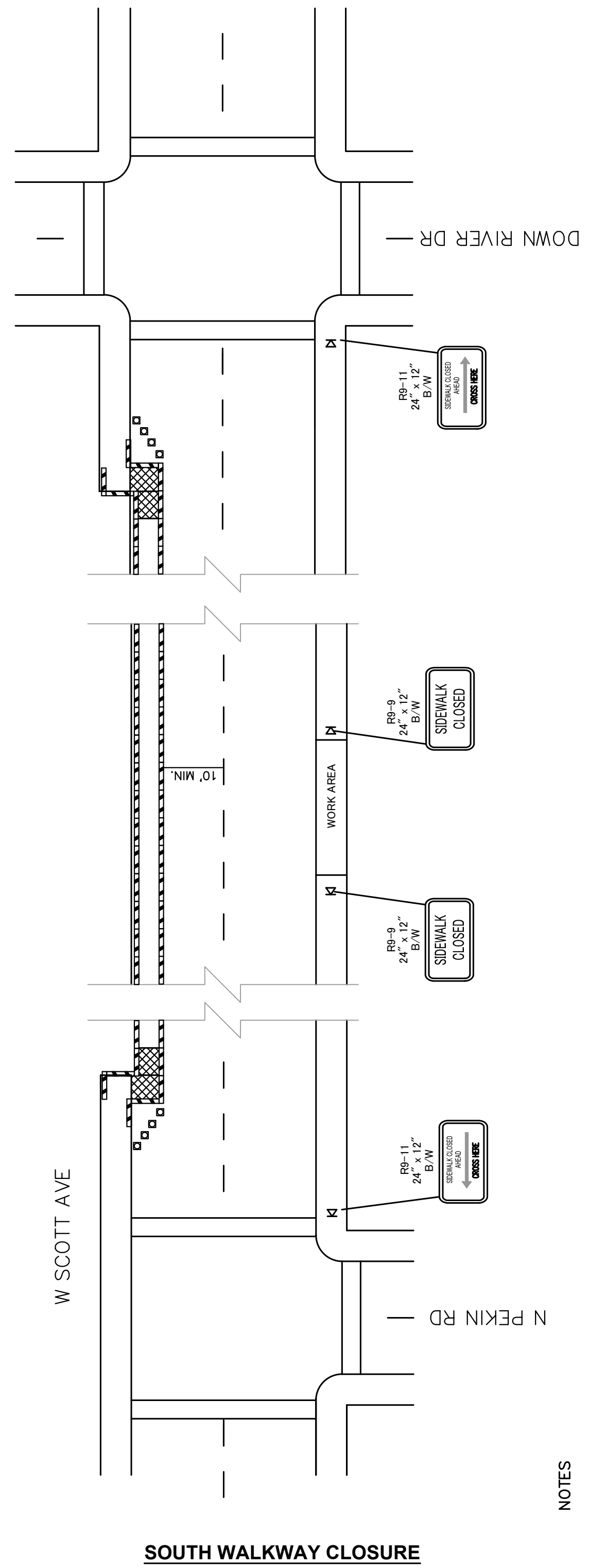
DATE: MAY 2022	YBP	TN	BLS
DRAWN:	YBP	CHECKED:	TN
APPROVED:	BLS		

No.	REVISION	DATE	APPD



CITY OF WOODLAND
 COWLITZ COUNTY WASHINGTON
W SCOTT AVE PEDESTRIAN PAVEMENT AND SIDEWALK IMPROVEMENTS
 TRAFFIC CONTROL DETAILS

DRAWING: **TC-2**
 SHEET: **18** OF: **18**
 JOB NO.: 19624.04
 DWG: TRAFFIC CONT DET



- LEGEND**
- ⊞ TEMPORARY SIGN LOCATION
 - ▣ CHANNELIZING DEVICES
 - ▨ PEDESTRIAN CHANNELIZING DEVICES
 - ▧ TEMPORARY PEDESTRIAN RAMP FOR SIDEWALKS

- NOTES**
1. CONTROLS SHOWN ARE FOR PEDESTRIAN TRAFFIC ONLY.
 2. A 60" PATH WIDTH SHOULD BE MAINTAINED (48" IS THE MINIMUM).
 3. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
 4. TEMPORARILY REMOVE (AND REPLACE) EXISTING EXTRUDED CURB AS REQUIRED TO MAINTAIN PEDESTRIAN ACCESS.
 5. ADA PEDESTRIAN FACILITIES MUST BE MAINTAINED. SEE STANDARD SPECIFICATION 1-10.21(J).

PEDESTRIAN TRAFFIC CONTROL DETAIL
 NOT TO SCALE