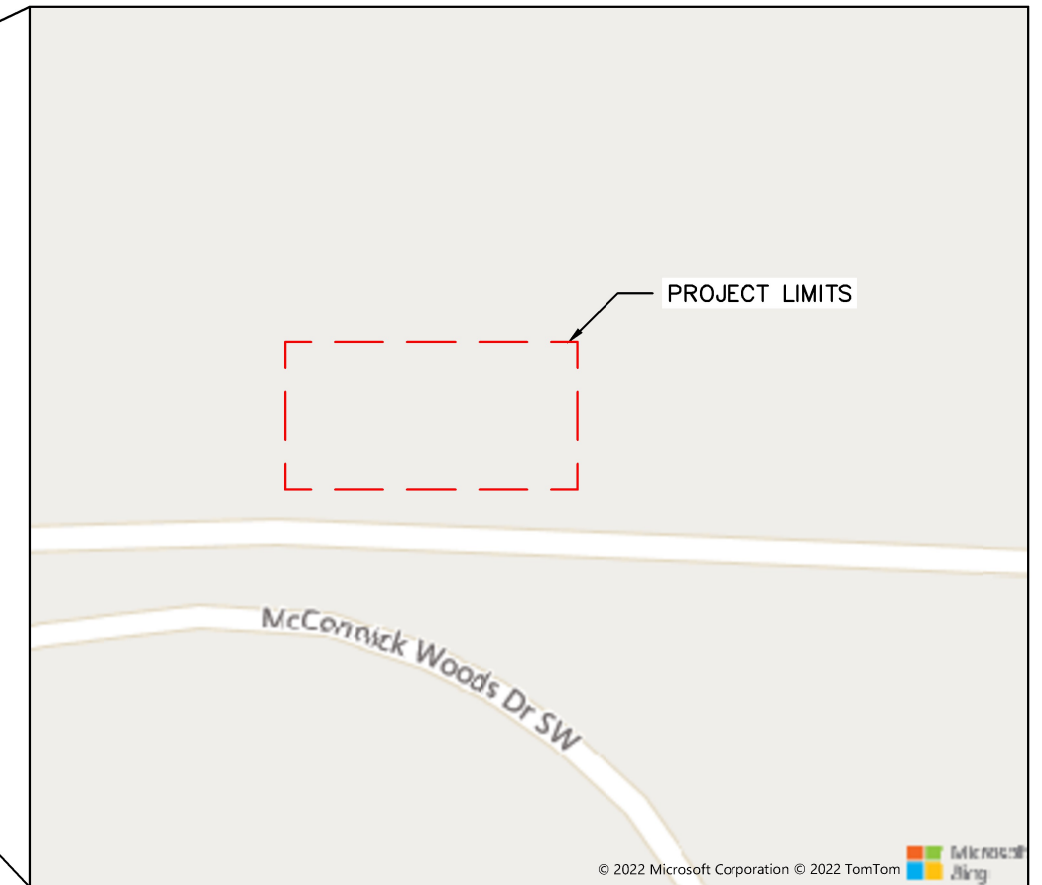


**COUNTY STORMWATER PROJECT No. 2022-001
6428 SW GLENWOOD ROAD
STORMWATER RETROFIT**

SHEET INDEX	
SHEET #	SHEET DESCRIPTION
1	COVER SHEET
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19	CROSS SECTIONS
20	CROSS SECTIONS



VICINITY MAP



PROJECT MAP



APPROVED FOR CONSTRUCTION:

DATE _____ JESSICA LH SMITH, P.E., STORMWATER RETROFIT SUPERVISOR

DATE _____ DAVID A. TUCKER P.E., ASSISTANT DIRECTOR FOR UTILITIES

BOARD OF COMMISSIONERS:

CHARLOTTE GARRIDO
ROBERT GELDER
EDWARD E. WOLFE

DIRECTOR OF PUBLIC WORKS

ANDREW B. NELSON, P.E.



KITSAP COUNTY
DEPT. OF PUBLIC WORKS
614 DIVISION STREET MS-26
PORT ORCHARD, WA 98366
TEL:(360) 337-5777 FAX:(360) 337-4867

**6428 SW GLENWOOD ROAD
STORMWATER RETROFIT
COVER SHEET**

WORK ORDER #: XX

SDAP #: XX

DATE
10/5/22

SHEET
1
OF
20

SYMBOL LEGEND

	CATCH BASIN		GUY POLE
	STORM DRAIN MANHOLE		GAS VALVE
	STORM DRAIN CLEAN OUT		LIGHT POLE
	DOWN SPOUT		PHONE PEDASTAL
	BUSH		TRAFFIC SIGNAL CONTROL CABINET
	LARGE ROCK		TRAFFIC SIGNAL HEAD
	CONIFER TREE		TRAFFIC SIGNAL POLE @ BASE
	DECIDUOUS TREE		PEDESTRIAN POLE
	TEST PIT/SOIL SAMPLE		TRAFFIC SIGNAL HAND HOLE
	STUMP		CABLE TV PEDASTAL
	WETLANDS FLAG#		UTILITY POLE
	BOLLARD		UTILITY POLE W/LIGHT
	GATE POST		YARD LIGHT
	FLAG POLE		
	MAIL BOX		
	RAILROAD SIGN		
	RAILROAD TRACK SWITCH		
	RAILROAD PAVEMENT MARKING		
	ROAD SIGN		
	WATER BLOWOFF VALVE		
	FIRE CONNECTION		
	FIRE HYDRANT		
	FIRE POST INDICATOR VALVE		
	HOSE BIB		
	IRRIGATION BOX		
	WATER METER		
	WATER MANHOLE		
	PRESSURE RELIEF VALVE		
	IRRIGATION SPRINKLER HEAD		
	WATER VALVE		
	WATER WELL		
	HANDICAP PARKING SYMBOL		
	SANITARY SEWER CLEAN OUT		
	SANITARY SEWER FORCE MAIN VALVE		
	SANITARY SEWER MANHOLE		
	COMMUNICATIONS MANHOLE		
	UTILITY DROP FROM POLE		
	ELECTRICAL BOX ON CONCRETE		
	ELECTRICAL CABINET		
	ELECTRICAL HAND HOLE		
	ELECTRICAL MANHOLE		
	ELECTRICAL METER		
	GUY ANCHOR		
	GAS METER		

LINE LEGEND

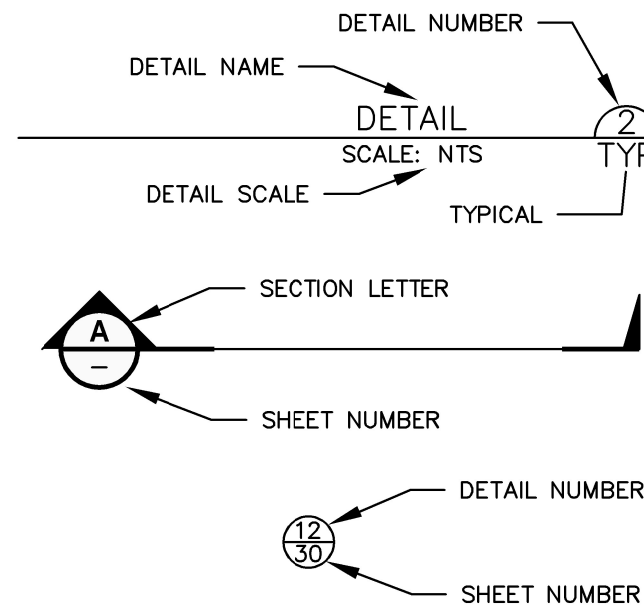
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	CULVERT
	STORM DRAIN LINE
	ORDINARY HIGH WATER LINE
	TREE LINE
	BUILDING LINE
	FENCE
	GUARD RAIL
	RIP RAP
	RETAINING WALL
	UNDERGROUND WATER LINE
	BARRIER/CURB LINE
	EDGE OF CONCRETE
	EDGE OF DIRT
	EDGE OF GRAVEL
	EDGE OF ASPHALT
	SHOULDER
	OVERHEAD COMMUNICATION LINE
	OVERHEAD ELECTRIC LINE
	OVERHEAD FIBER OPTIC LINE
	OVERHEAD PHONE LINE
	OVERHEAD TELEVISION LINE
	UNDERGROUND SANITARY SEWER LINE
	UNDERGROUND CABLE LINE
	UNDERGROUND POWER LINE
	UNDERGROUND FIBER OPTIC LINE
	UNDERGROUND GAS LINE
	UNDERGROUND COMMUNICATION LINE

ABBREVIATIONS

AC	ASPHALT CONCRETE	ECB	EROSION CONTROL	MEF	MAXIMUM EXTENT	SCH	SCHEDULE
AD	ALGEBRAIC DIFFERENCE		BLANKET		FEASIBLE	SD	STORM DRAIN
ALUM	ALUMINUM	EG	EXISTING GROUND	MFR	MANUFACTURER	SDCB	STORM DRAIN CATCH
AP	ANGLE POINT	EL, ELEV	ELEVATION	MH	MANHOLE		BASIN
APPROX	APPROXIMATE	EOP	EDGE OF PAVEMENT	MDPT	MIDPOINT	SDMH	STORM DRAIN MANHOLE
ASPH	ASPHALT	EQ	EQUAL	MIN	MINIMUM	SE	SOUTHEAST
@	AT	EVCE	END VERTICAL CURVE	MISC	MISCELLANEOUS	SECT	SECTION
AVE	AVENUE		ELEVATION	MJ	MECHANICAL JOINT	SF	SQUARE FOOT
BLDG	BUILDING	EVCS	END VERTICAL CURVE	MON	MONUMENT	SHLDR	SHOULDER
BM	BENCH MARK		STATION	N	NORTH, NORTHING	SHT	SHEET
BR	BOTTOM OF RAMP	EX, EXIST	EXISTING	NE	NORTHEAST	SIM	SIMILAR
BW	BACK OF SIDEWALK	FG	FINISHED GRADE	NO	NORTH	SL	SLOPE
BOW	BOTTOM OF WALL	FH	FIRE HYDRANT	NST	NOT STEEPER THAN	SPEC	SPECIFICATIONS
BT	BURIED TELEPHONE	FIG	FIGURE	NW	NORTHWEST	SQ	SQUARE
BVC	BEGIN VERTICAL CURVE	FL	FLOW LINE, FLANGE	OC	ON CENTER	SS	SANITARY SEWER
CB	CATCH BASIN	FM	FORCE MAIN	OD	OUTSIDE DIAMETER	SSFM	SANITARY SEWER FORCE
CCP	CONCRETE CYLINDER PIPE	FO	FIBER OPTIC	OHWM	ORDINARY HIGH WATER		MARK
CG	CLEARING AND GRUBBING	FOC	FACE OF CURB		MARK	SSMH	SANITARY SEWER
CI	CAST IRON	FT	FOOT, FEET	OP	OVERHEAD POWER		MANHOLE
CIP	CAST IN PLACE	FTG	FOOTING	P	POWER	ST	STREET
CL	CLASS	G	GAS	PAVE	PAVEMENT	STA	STATION
CLR	CLEAR	GA	GAUGE	PC	POINT OF CURVATURE	STD	STANDARD
CMP	CORRUGATED OR	GALV	GALVANIZED	PCC	PORTLAND CEMENT	SW	SOUTHWEST
	CULVERT METAL PIPE	GV	GATE VALVE		CONCRETE	S/W	SIDEWALK
CO	CLEANOUT	H, HORZ	HORIZONTAL	PE	POLYETHYLENE	T, TEL	TELEPHONE
CONC	CONCRETE	HDPE	HIGH DENSITY	PI	POINT OF INTERSECTION	TBC	TOP BACK OF CURB
CP	CONCRETE PIPE, CULVERT	HMA	HOT MIX ASPHALT	PK	SURVEY NAIL	TCE	TEMPORARY
	PIPE	ID	INSIDE DIAMETER	PP	POWER POLE		CONSTRUCTION EASEMENT
CPEP	CORRUGATED	IE	INVERT ELEVATION	PSI	POUNDS PER SQUARE	TOW	TOP OF WALL
	POLYETHELENE PIPE	IN	INCH		INCH	TR	TOP OF RAMP
CSBC	CRUSHED SURFACE BASE	IN	IRON PIPE SIZE	PT	POINT OF TANGENCY	TYP	TYPICAL
	COURSE	IPS	IRON PIPE SIZE	PVC	POLYVINYL CHLORIDE PIPE	U/G	UNDERGROUND
CSTC	CRUSHED SURFACE TOP	JT	JOINT	PVI	POINT OF VERTICAL	UNO	UNLESS OTHERWISE
COURSE		KC	KITSAP COUNTY		INTERSECTION		NOTED
CULV	CULVERT	KCPW	KITSAP COUNTY PUBLIC	PVT	POINT OF VERTICAL	V, VERT	VERTICAL
DI	DUCTILE IRON		WORKS		TANGENCY	W	WATER
DIA	DIAMETER	L	LENGTH	R	RADIUS	W/	WITH
DWG	DRAWING	LPS	LOW PRESSURE SEWER	REQ	REQUIRED	W/O	WITHOUT
DWY	DRIVEWAY	LT	LEFT	ROW	RIGHT OF WAY	WSDOT	WASHINGTON STATE
E	EAST	LF	LINEAR FOOT	RP	RADIUS POINT		DEPARTMENT OF
EA	EACH	MAX	MAXIMUM	RT	RIGHT		TRANSPORTATION
EASE	EASEMENT	MB	MAILBOX	S	SOUTH		

GENERAL NOTES:

1. THE CONTRACTOR SHALL CALL THE UTILITY LOCATION REQUEST CENTER PRIOR TO ANY EXCAVATION WORK. NO EXCAVATION SHALL BEGIN UNTIL ALL UNDERGROUND UTILITIES HAVE BEEN LOCATED.
2. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, LATEST EDITION.
3. THE CONTRACTOR SHALL MEET THE CONDITIONS OF ALL PROJECT PERMITS AND LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS..
4. THE CONTRACTOR SHALL LIMIT THE AREA OF CLEARING TO ONLY THAT WHICH IS NECESSARY TO COMPLETE THE REQUIRED WORK. ALL DISTURBED AREAS SHALL BE GRADED TO MATCH THE EXISTING GROUND AND PROMPTLY SEEDED PER SP 8-01.3(2)B.
5. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES CONTAINED WITHIN THE KITSAP COUNTY STORMWATER MANAGEMENT MANUAL, LATEST EDITION.
6. ALL CATCH BASINS SHALL HAVE STANDARD FRAMES AND "KITSAP COUNTY" STAMPED VANED GRATES.



REVISIONS

No.	BY	DATE	DESCRIPTION

<i>SURVEYED: RC</i>
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<i>DRAWN: DP</i>
<i>CHECKED: JS</i>
<i>CRP No.: XX</i>



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 614 DIVISION STREET MS-26
 PORT ORCHARD, WA 98366
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6428 SW GLENWOOD ROAD
STORMWATER RETROFIT
LEGEND, ABBREVIATIONS, & NOTES
 PORT ORCHARD, WA

DATE	10/5/22
SHEET	2
OF	20

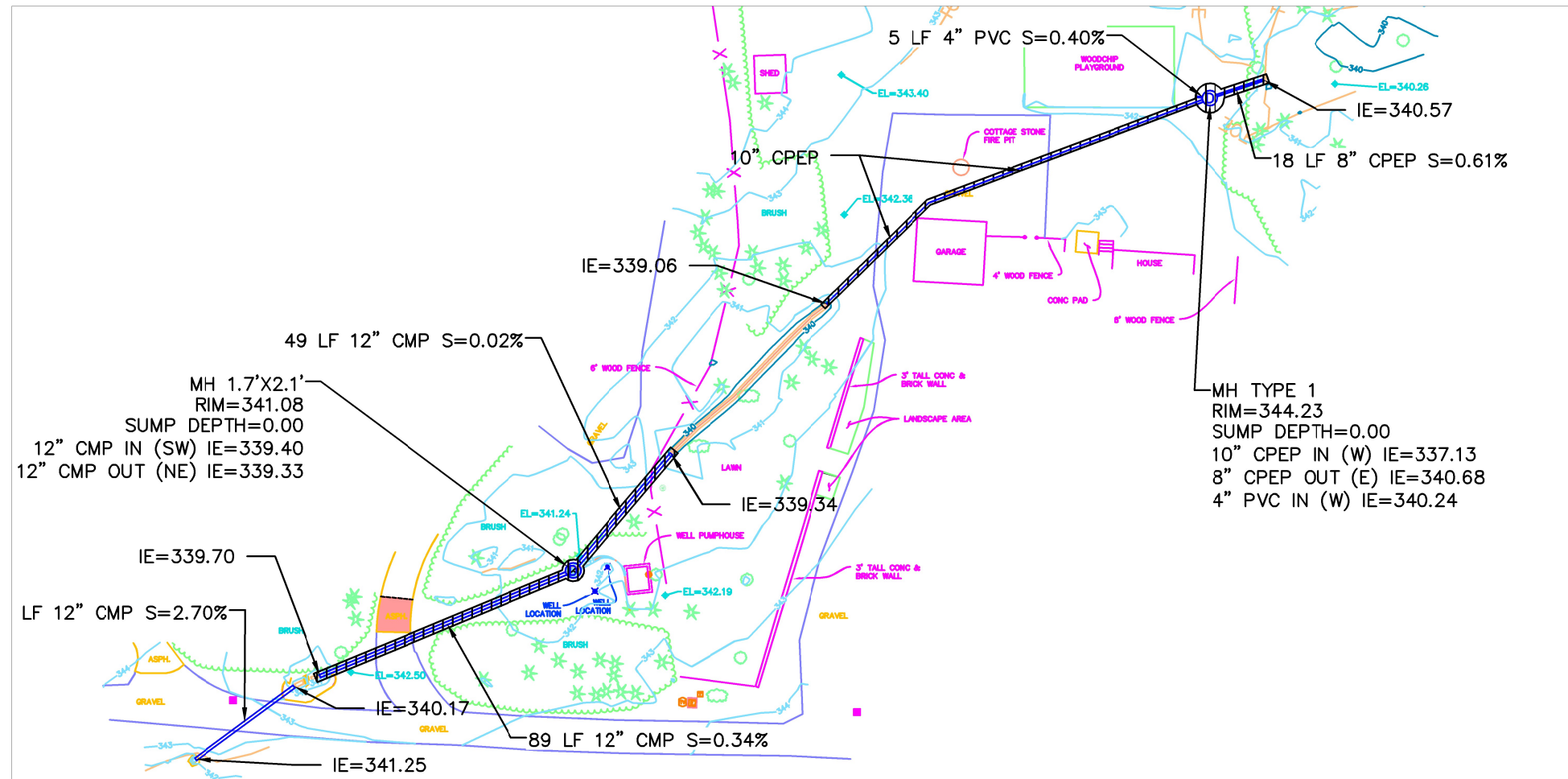
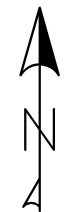
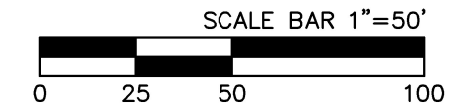
DEMOLITION & EROSION/SEDIMENTATION CONTROL NOTES

- SEE SHEET 10-12 FOR WSDOT EROSION CONTROL MEASURES.
- APPROVED TRAFFIC CONTROL SHALL BE ESTABLISHED FOR ALL CONSTRUCTION PROJECTS WHICH IMPACT ANY PUBLIC ROADWAY INCLUDING BUT NOT LIMITED TO LANE CLOSURES, DETOURS, SLOW MOVING VEHICLES AND ACTUAL CONSTRUCTION WITHIN THE RIGHT-OF-WAY.
- ALL STRUCTURE EXCAVATION, TRENCHING, AND SHORING SHALL BE PERFORMED IN STRICT COMPLIANCE WITH WASHINGTON ADMINISTRATIVE CODE 296-155 AS WELL AS ALL OTHER APPLICABLE LOCAL, CONTRACTING AGENCY, AND FEDERAL LAWS AND REGULATIONS. SEE WSDOT 2-09.3(3)B FOR TYPICAL SHORING EXAMPLES.
- APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS,

- CHANNELS, RETENTION FACILITIES, UTILITIES).
- THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC BMPs IS THE RESPONSIBILITY OF THE APPLICANT UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
- CLEARLY FLAG THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT FOR THE DURATION OF CONSTRUCTION.
- CONSTRUCT THE ESC BMPs SHOWN ON THIS PLAN IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.

- THE ESC BMPs SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, UPGRADE THESE ESC BMPs AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
- THE APPLICANT SHALL INSPECT THE ESC BMPs DAILY AND MAINTAIN THEM AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- INSPECT AND MAINTAIN THE ESC BMPs ON INACTIVE SITES A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT (I.E. A 24-HOUR STORM EVENT WITH A 10-YEAR OR GREATER RECURRENCE INTERVAL).
- AT NO TIME SHALL THE SEDIMENT EXCEED 60% OF THE SUMP DEPTH OR HAVE LESS THAN 6 IN OF CLEARANCE FROM THE SEDIMENT SURFACE TO THE INVERT OF THE LOWEST PIPE. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN

- WATER INTO THE DOWNSTREAM SYSTEM.
- INSTALL STABILIZED CONSTRUCTION ENTRANCES AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.



DEMO LEGEND

- REMOVE & DISPOSE OF EXISTING STORMWATER CONVEYANCE LINE AND STRUCTURES (TRENCHING PER WSDOT STANDARD SPECIFICATIONS 2-09.3(3)B)
- SAWCUT EXISTING PAVEMENT FULL DEPTH
- HMA SURFACE REMOVAL

REVISIONS

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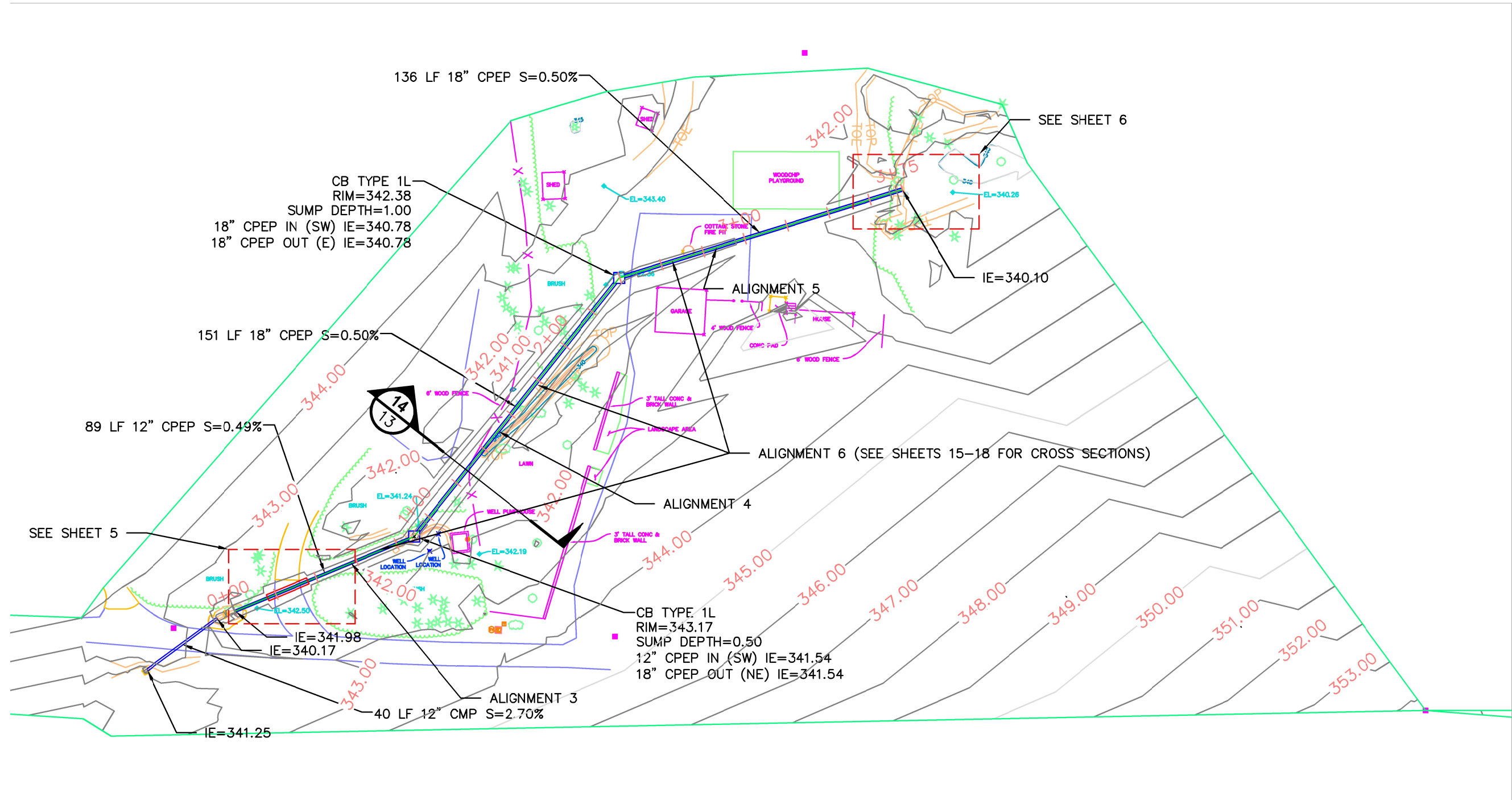
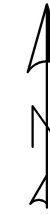
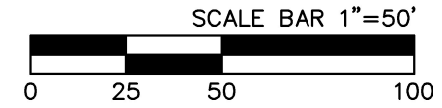
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6428 SW GLENWOOD ROAD
 STORMWATER RETROFIT
 DEMOLITION
 PORT ORCHARD, WA

DATE
 10/5/22
 SHEET
 3
 OF
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GENERAL NOTES

1. STORM DRAINAGE STRUCTURES CONFORM TO WSDOT STANDARD
2. LOCATION, DEPTH, AND SIZE OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO VERIFY WITH POTHOLING PRIOR TO CONSTRUCTION.
3. SEE SHEETS 10-12 FOR WSDOT EROSION CONTROL MEASURES



REVISIONS

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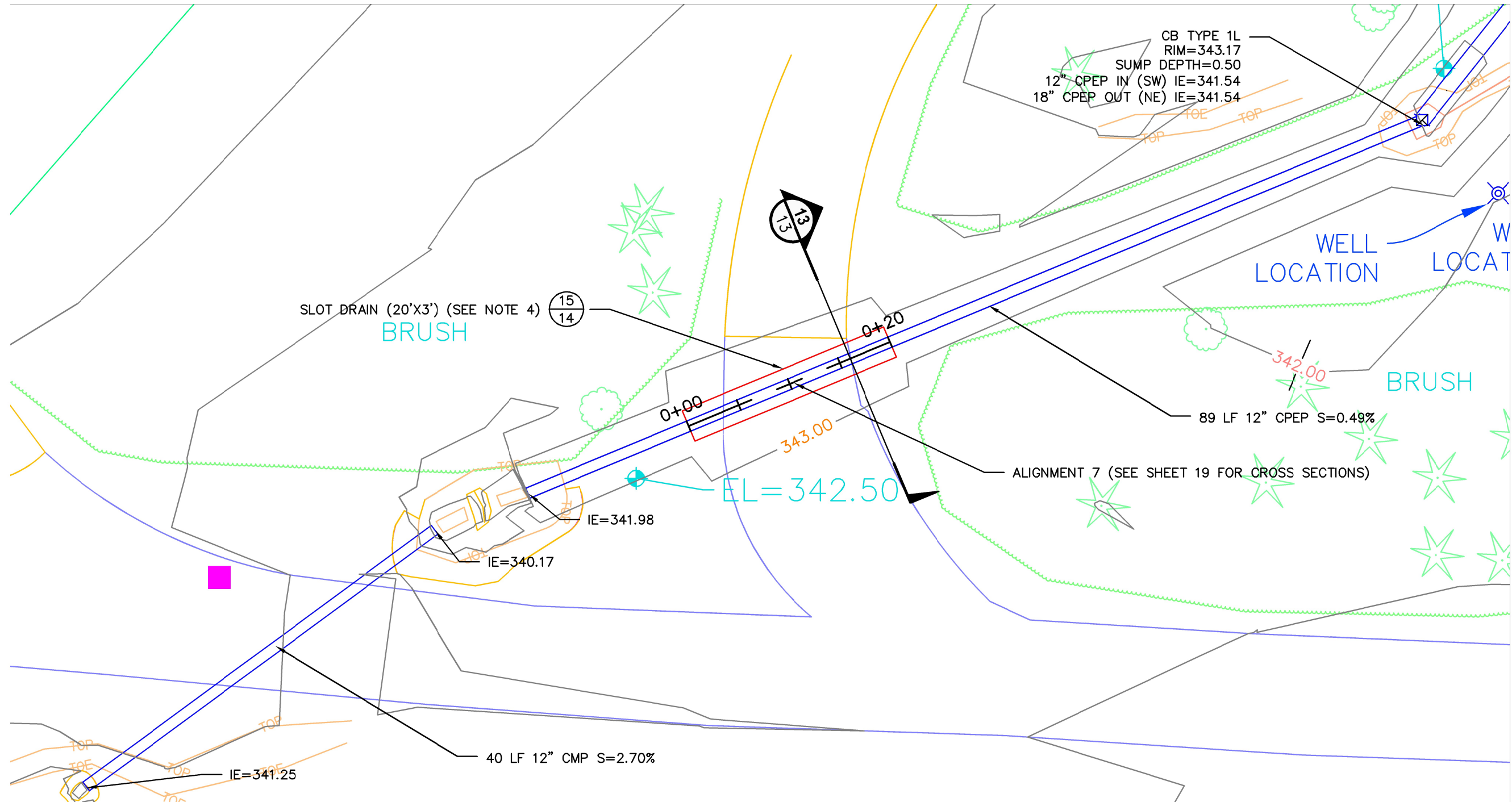
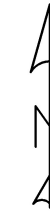
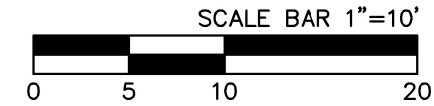
6428 SW GLENWOOD ROAD
STORMWATER RETROFIT
PROPOSED DESIGN
 PORT ORCHARD, WA

DATE
10/5/22

SHEET
4
OF
20

GENERAL NOTES

1. STORM DRAINAGE STRUCTURES CONFORM TO WSDOT STANDARD
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3. SEE SHEETS 10-12 FOR WSDOT EROSION CONTROL MEASURES
4. DURA TRENCH 12" SLOTTED PIPE DRAIN (PRODUCT #DTSP12-HDSPBPLSU03)



REVISIONS

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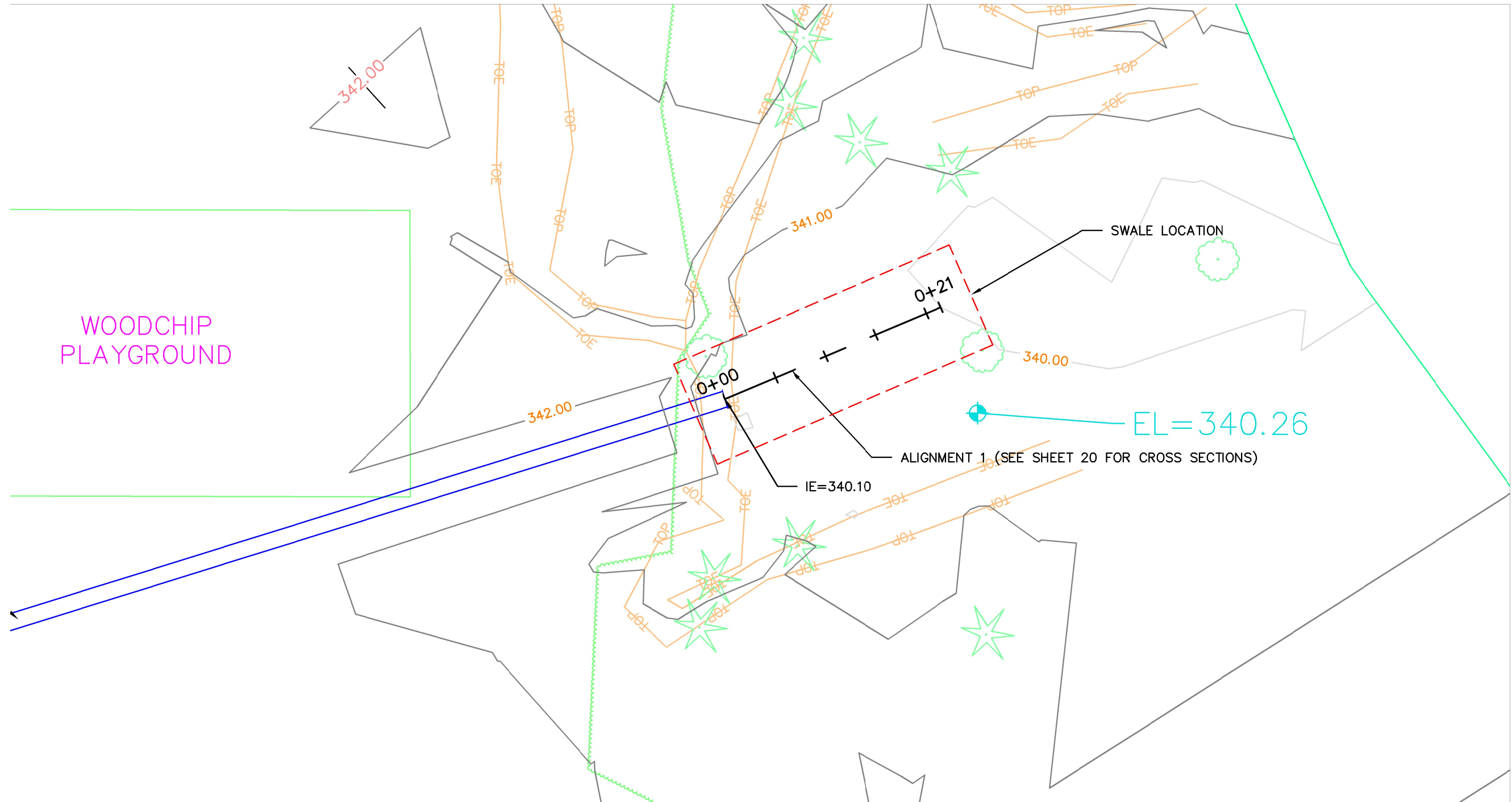
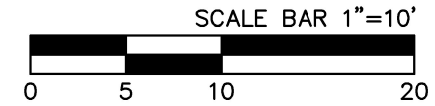
6428 SW GLENWOOD ROAD
 STORMWATER RETROFIT
 PROPOSED DESIGN
 PORT ORCHARD, WA

DATE
10/5/22

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5
OF
20

GENERAL NOTES

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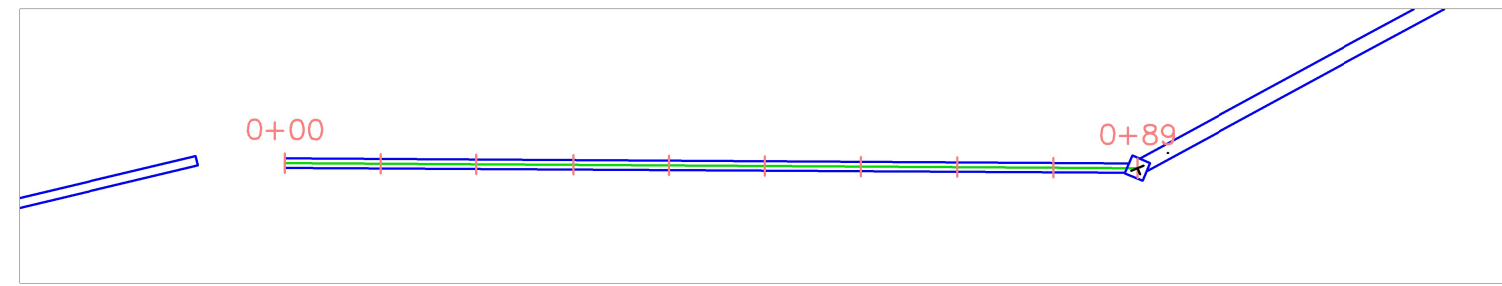
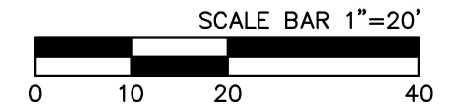


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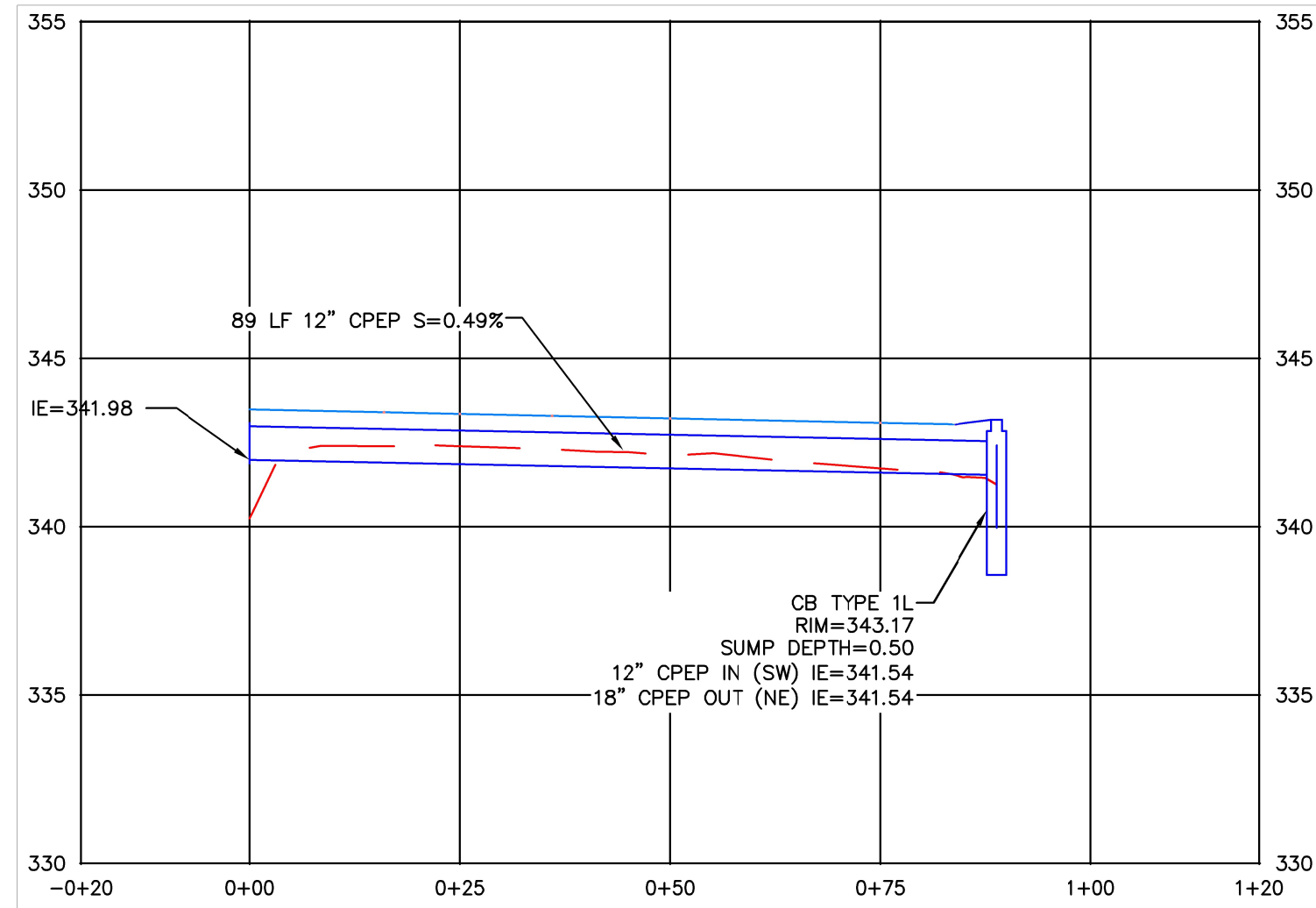
6428 SW GLENWOOD ROAD
STORMWATER RETROFIT
PROPOSED DESIGN
 PORT ORCHARD, WA

DATE
 10/5/22

 SHEET
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LEGEND
 — FINAL GRADE
 - - - EXISTING GRADE



PROFILE VIEW: Alignment 3

REVISIONS

No.	BY	DATE	DESCRIPTION

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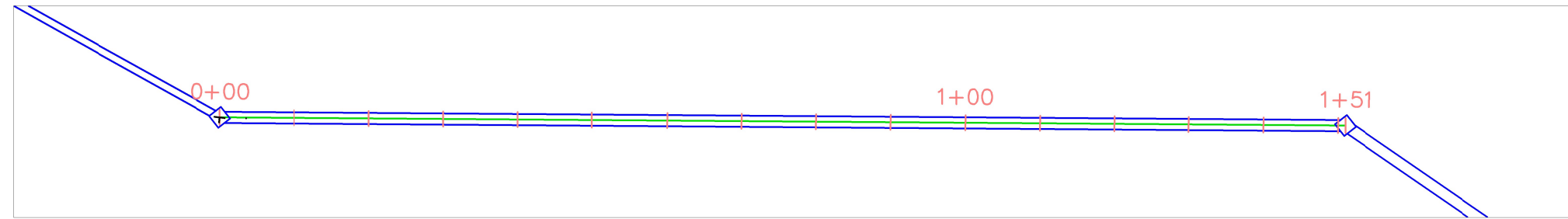
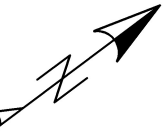
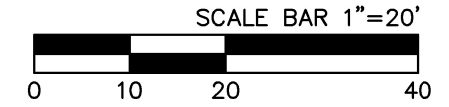


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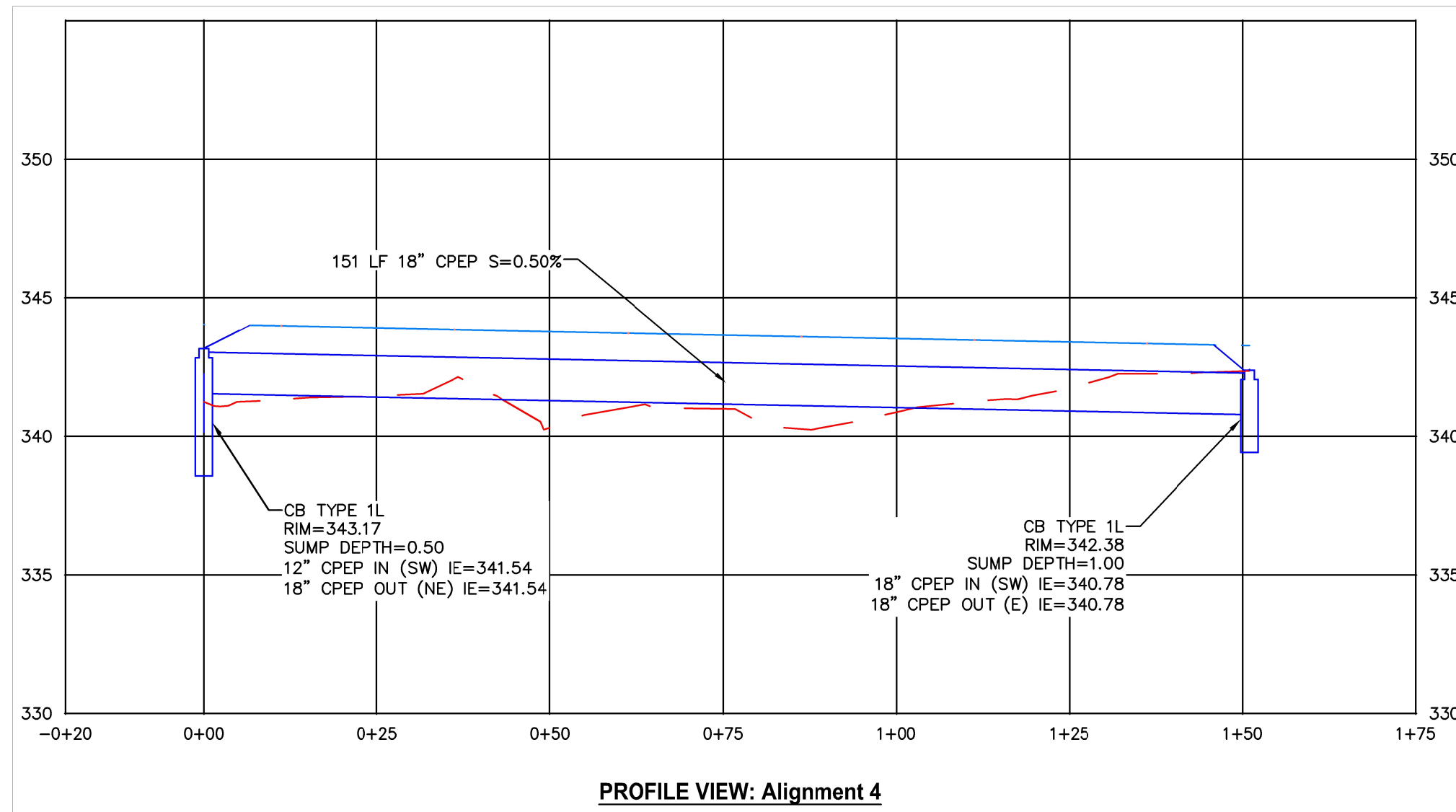
6428 SW GLENWOOD ROAD
STORMWATER RETROFIT
PLAN & PROFILE
 PORT ORCHARD, WA

DATE
10/5/22

SHEET
7
OF
20



LEGEND
 — FINAL GRADE
 - - - EXISTING GRADE

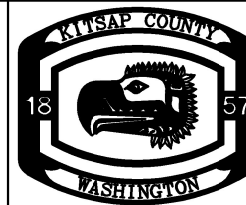


PROFILE VIEW: Alignment 4

REVISIONS

No.	BY	DATE	DESCRIPTION

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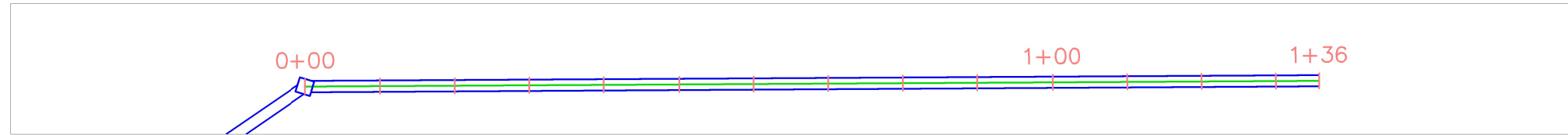
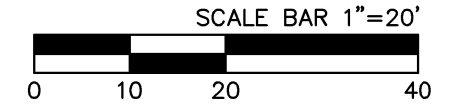


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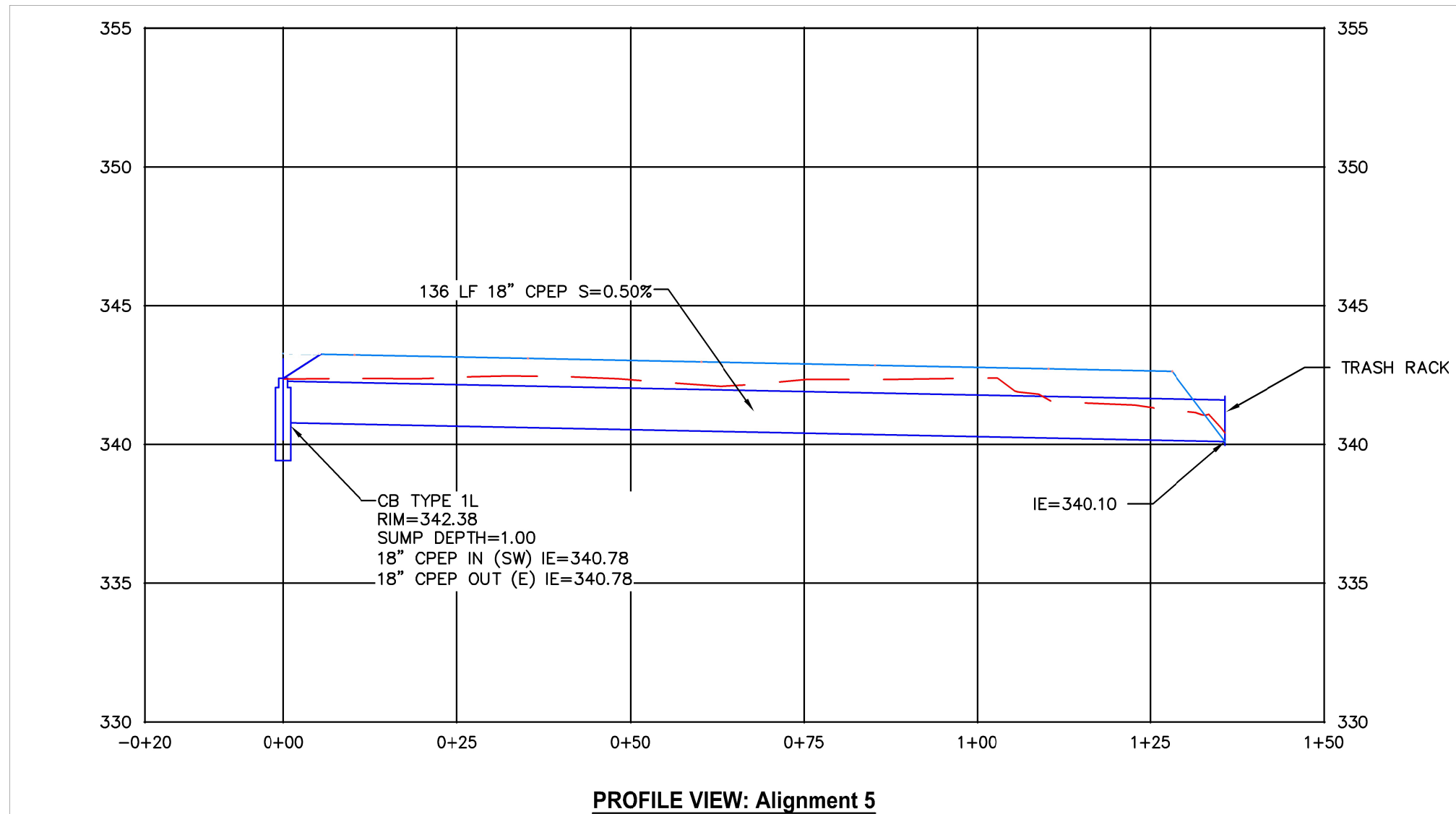
6428 SW GLENWOOD ROAD
STORMWATER RETROFIT
PLAN & PROFILE
 PORT ORCHARD, WA

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10/5/22

SHEET
8
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LEGEND
 — FINAL GRADE
 - - - EXISTING GRADE



PROFILE VIEW: Alignment 5

REVISIONS

No.	BY	DATE	DESCRIPTION

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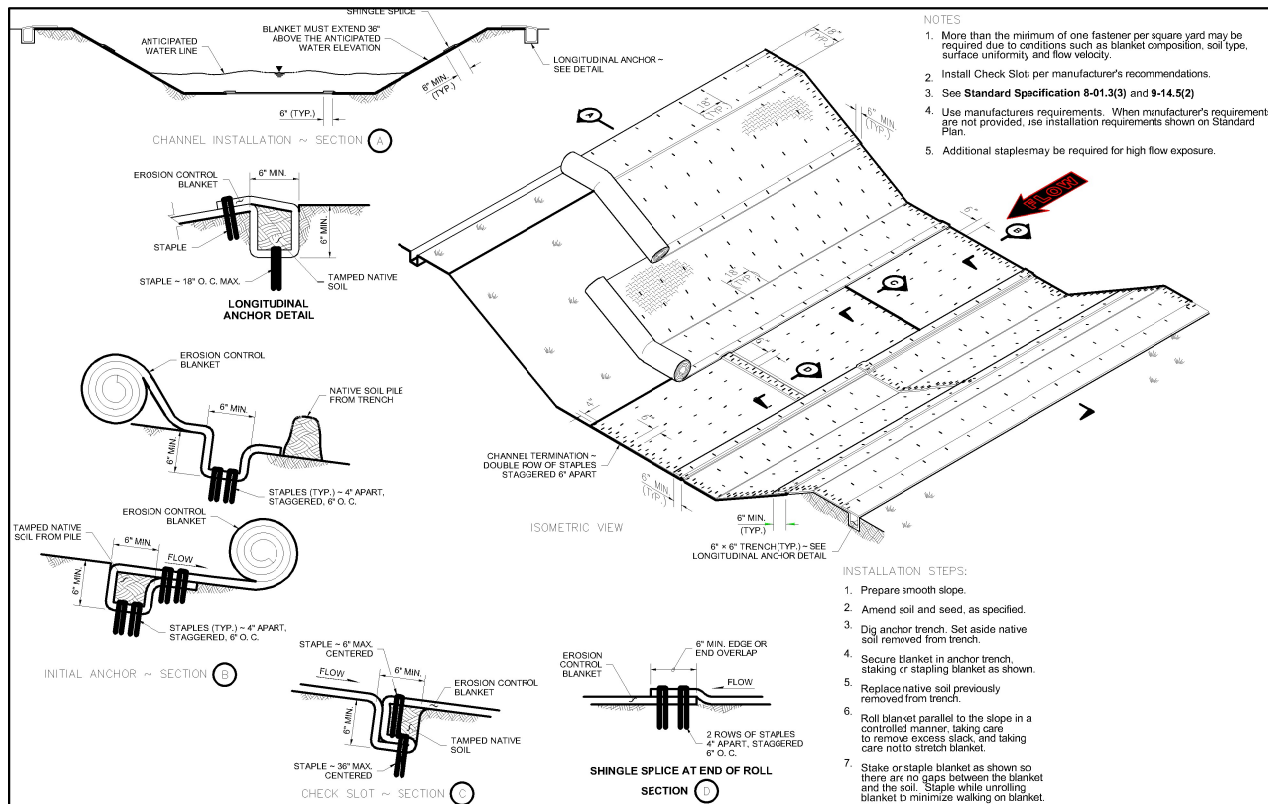


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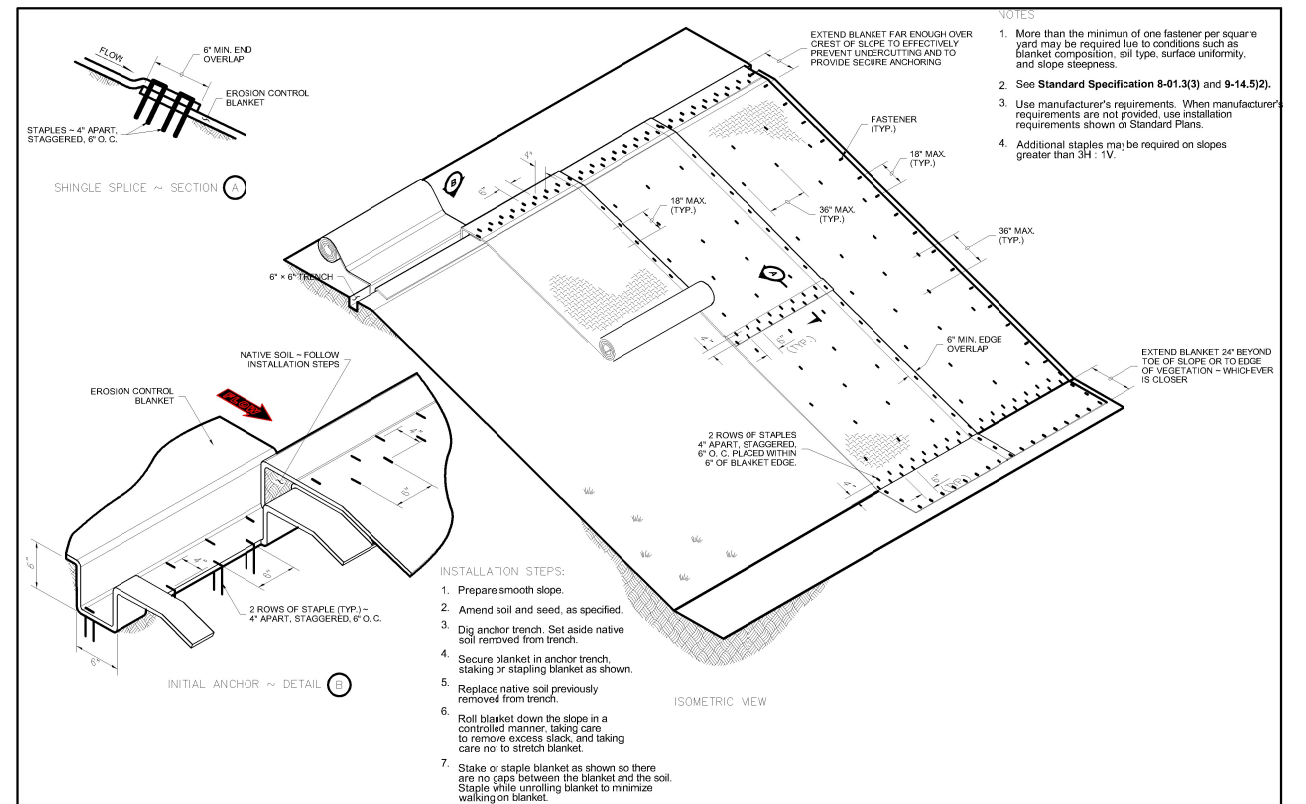
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STORMWATER RETROFIT
PLAN & PROFILE
 PORT ORCHARD, WA

DATE
10/5/22

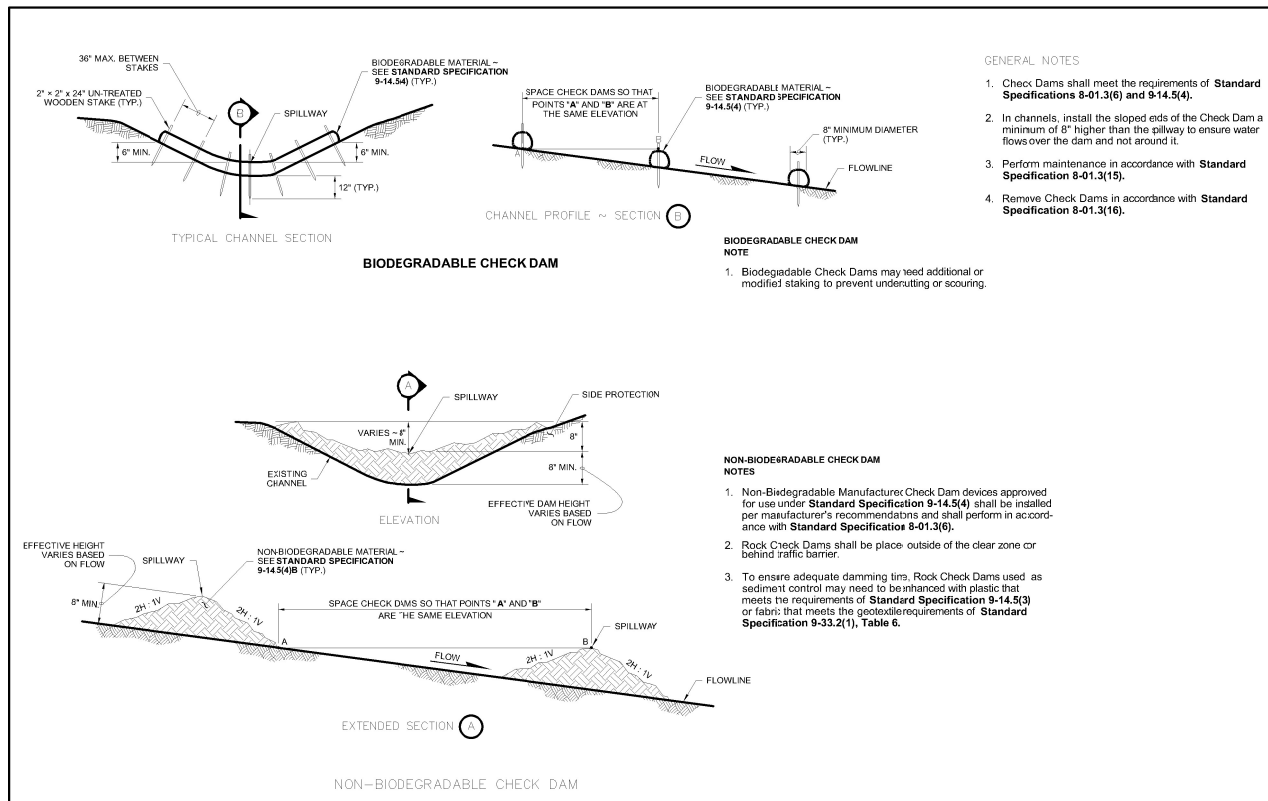
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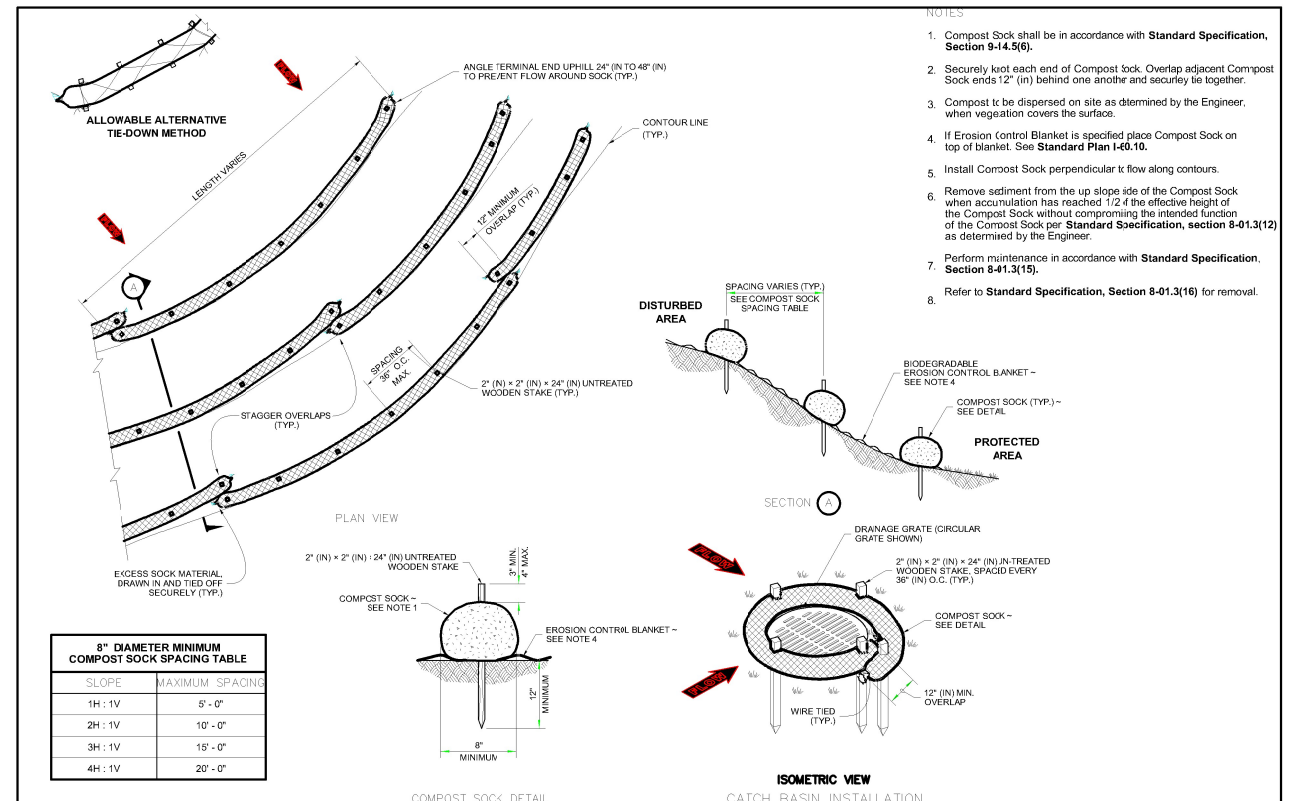
BIODEGRADABLE EROSION CONTROL BLANKET PLACEMENT FOR DITCHES
SCALE: NTS **1 TYP**



BIODEGRADABLE EROSION CONTROL BLANKET PLACEMENT ON SLOPES
SCALE: NTS **2 TYP**



CHECK DAMS
SCALE: NTS **3 TYP**



COMPOST SOCK
SCALE: NTS **4 TYP**

REVISIONS

No.	BY	DATE	DESCRIPTION

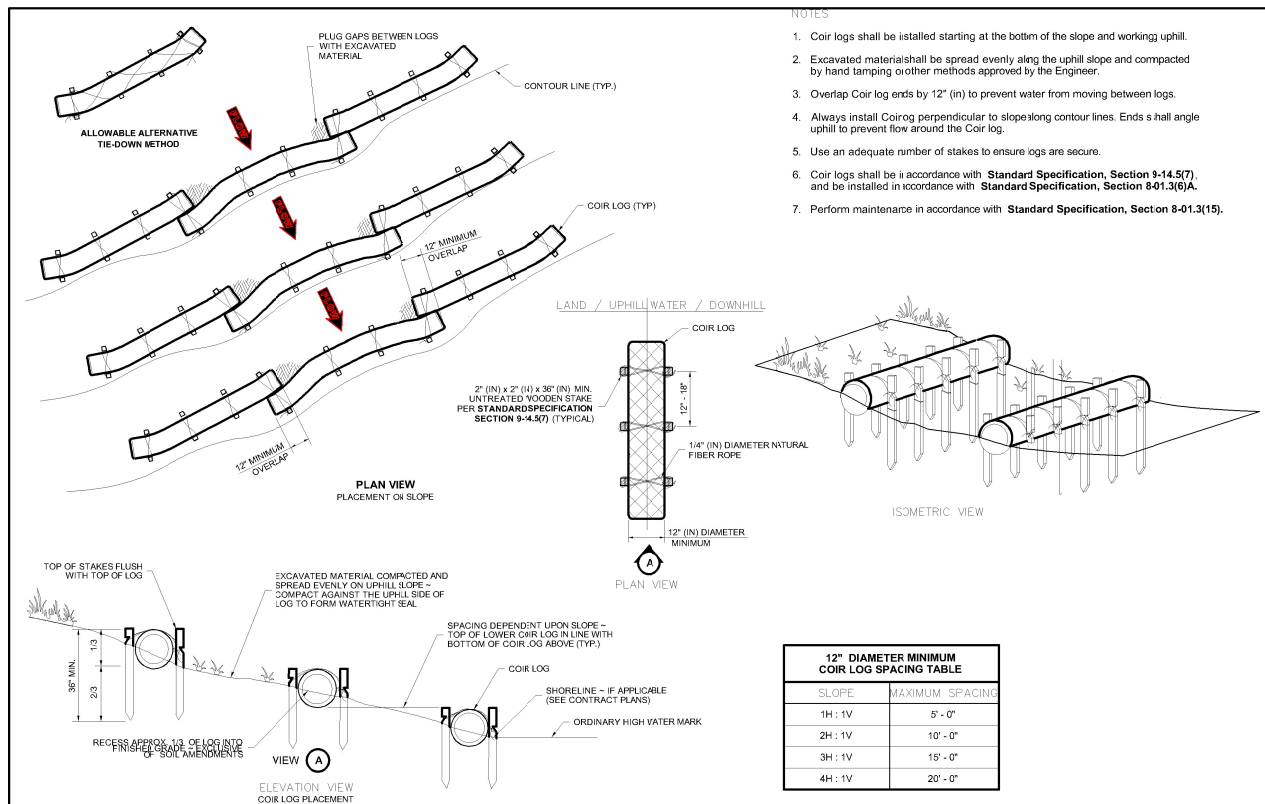
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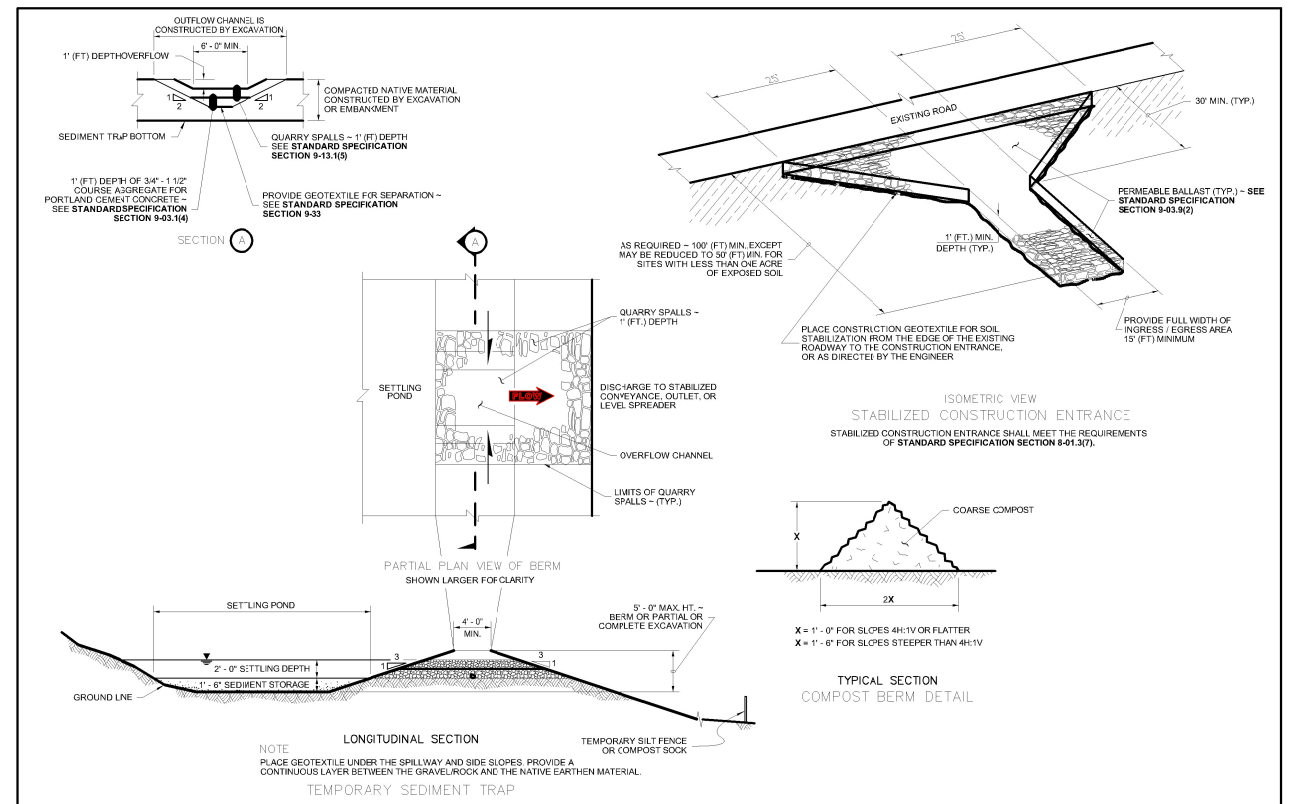
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6428 SW GLENWOOD ROAD
STORMWATER RETROFIT
DETAILS
 PORT ORCHARD, WA

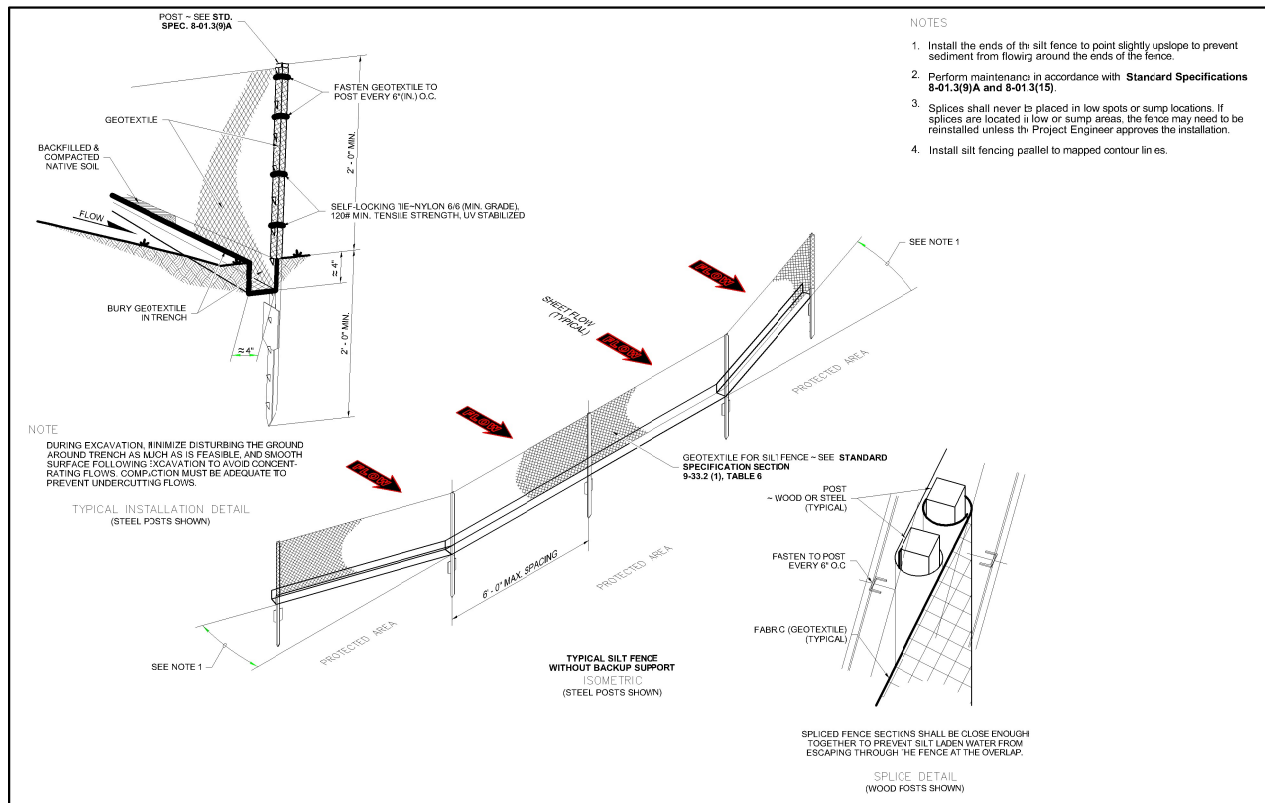
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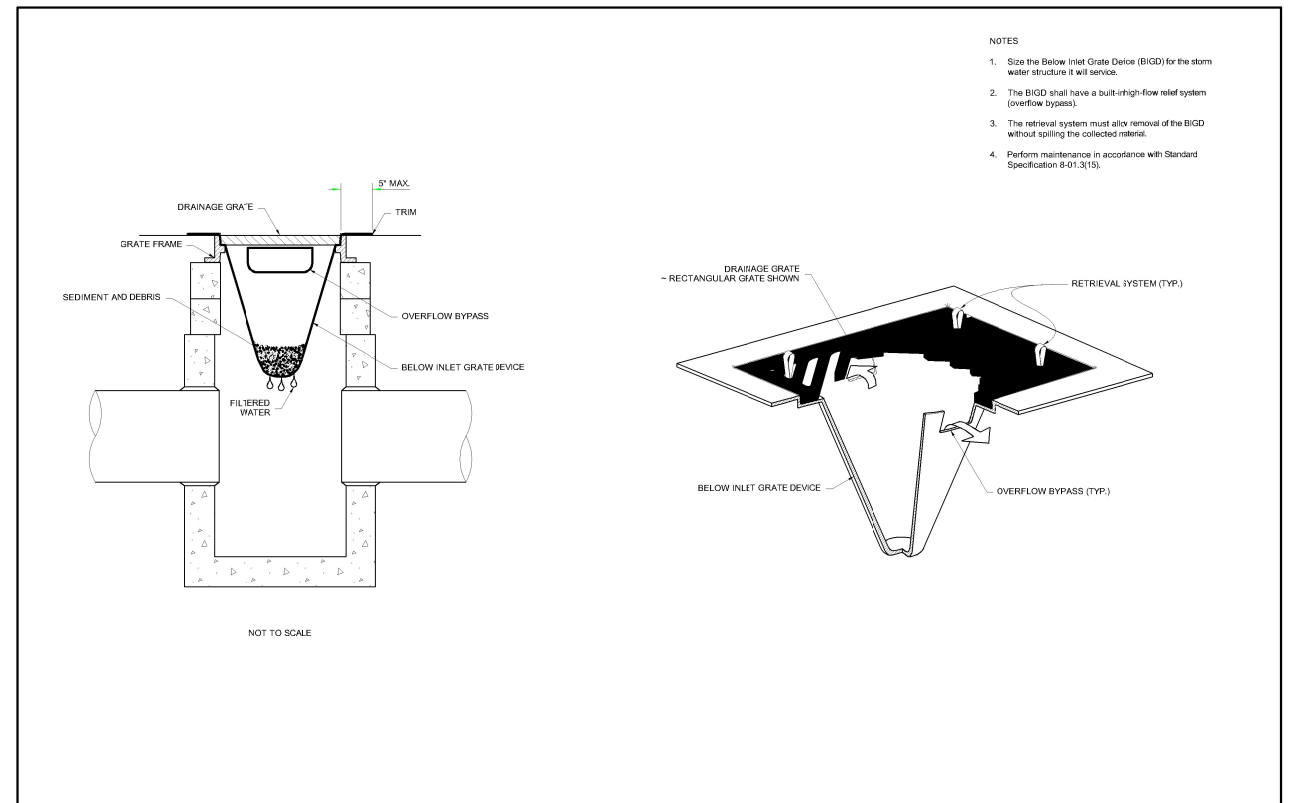
EROSION CONTROL DETAILS COIR LOG PLACEMENT **SCALE: NTS** **5 TYP**



MISCELLANEOUS EROSION CONTROL DETAILS **SCALE: NTS** **6 TYP**



SILT FENCE **SCALE: NTS** **7 TYP**



STORM DRAIN INLET PROTECTION **SCALE: NTS** **8 TYP**

REVISIONS

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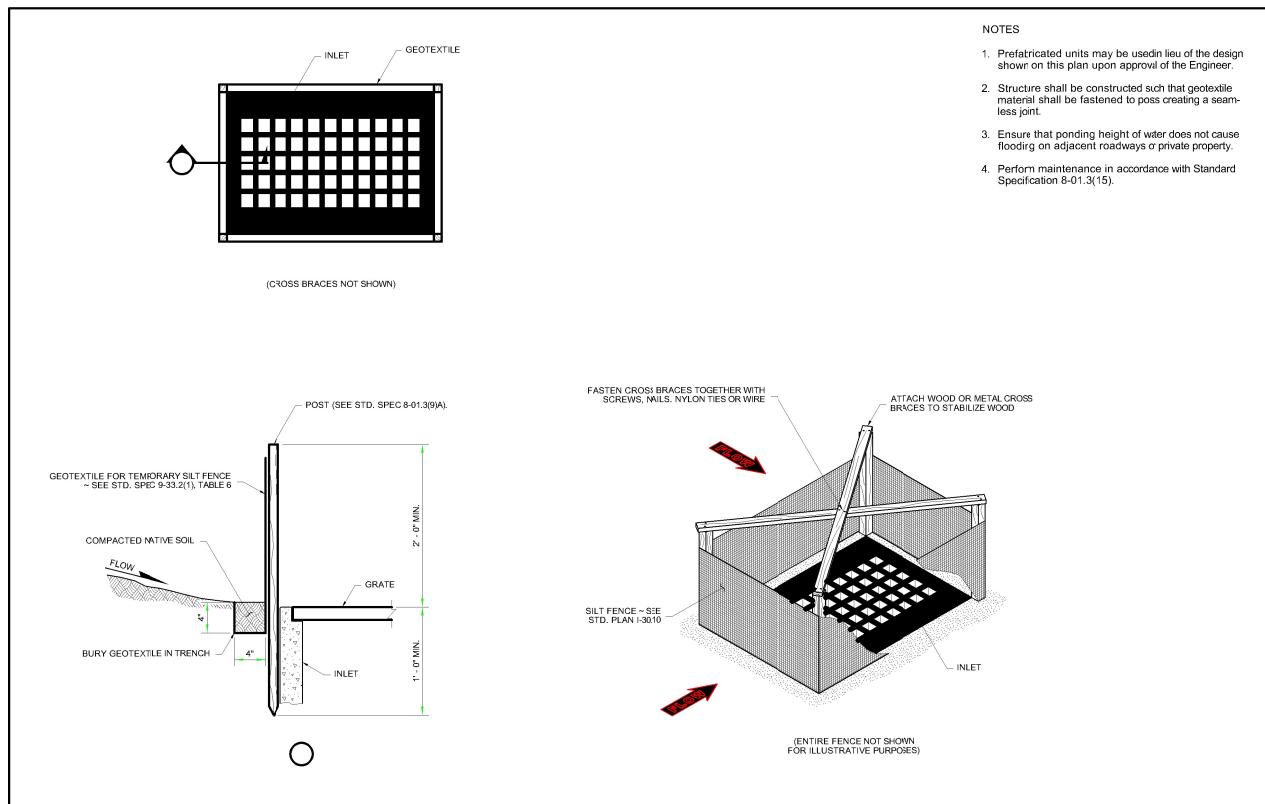
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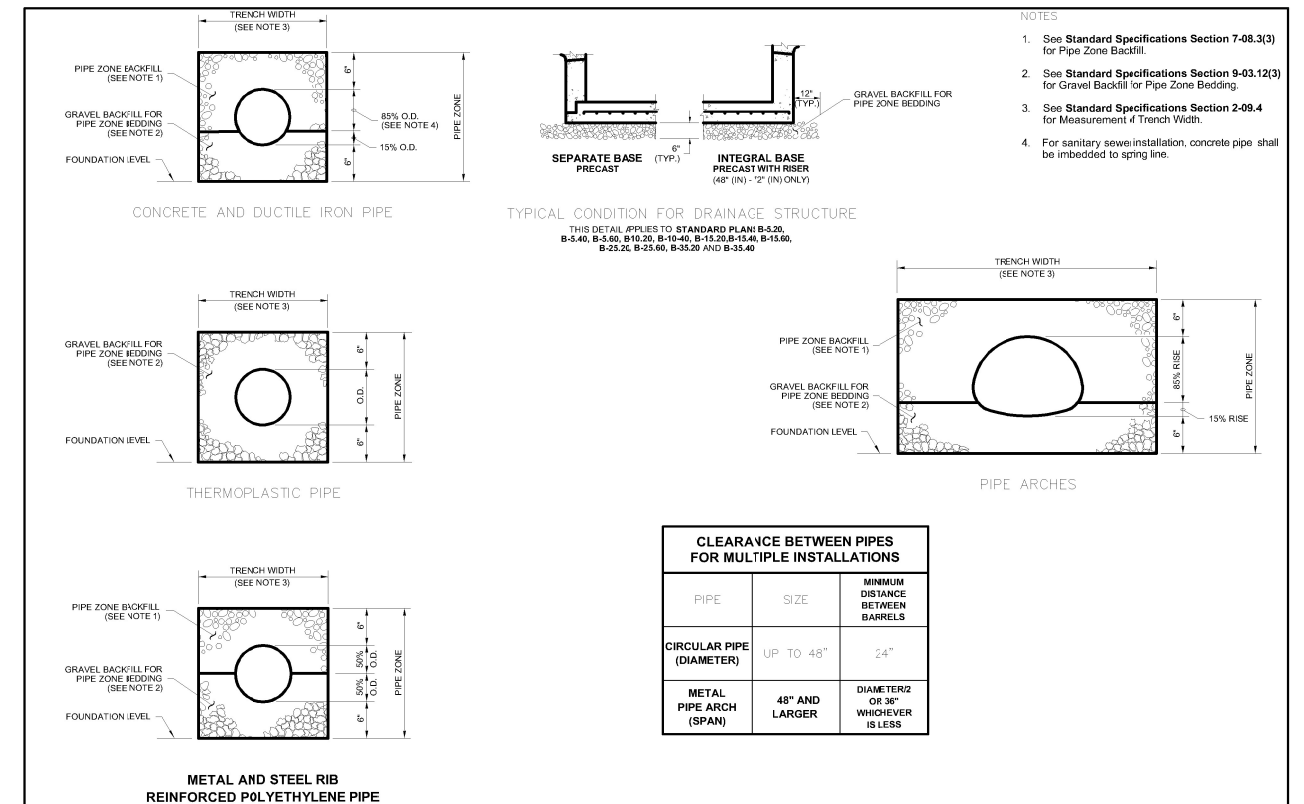
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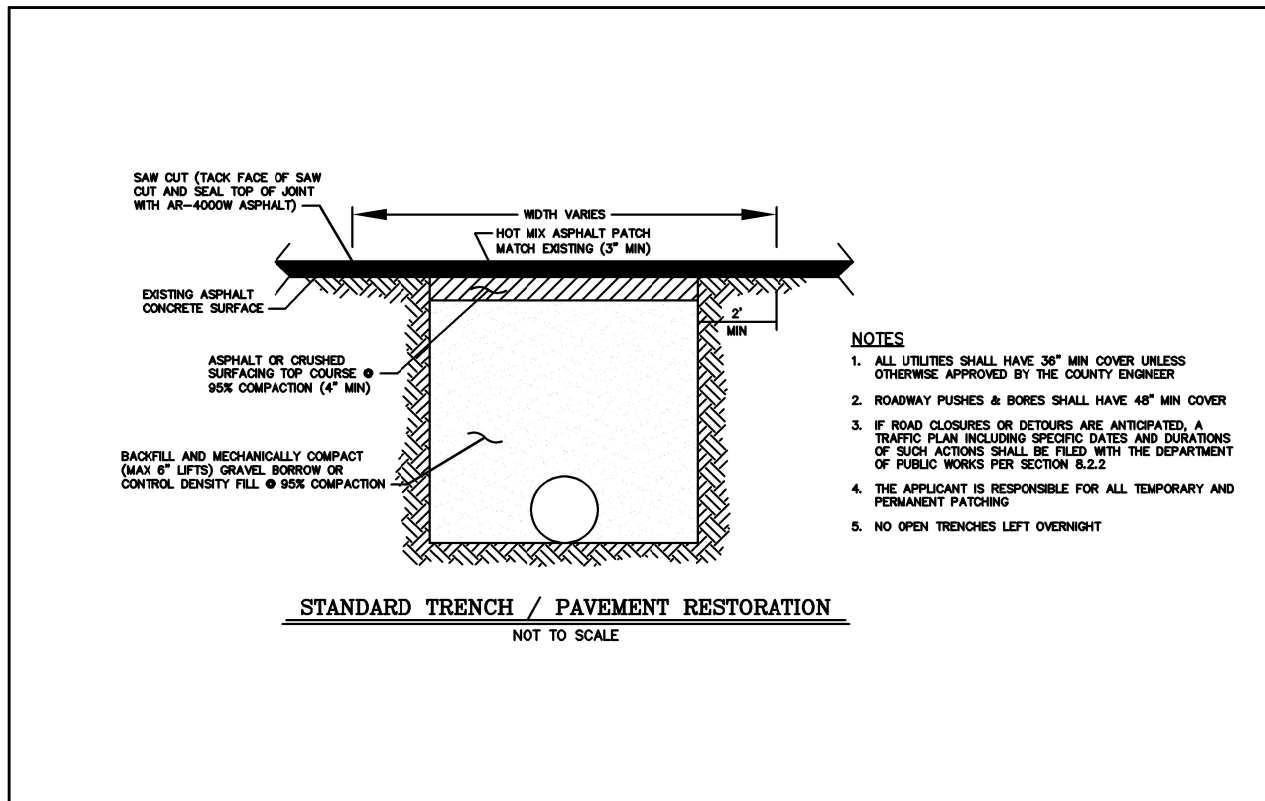
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TEMPORARY SILT FENCE FOR INLET PROTECTION IN UNPAVED AREAS
SCALE: NTS **9** TYP



PIPE ZONE BEDDING AND BACKFILL
SCALE: NTS **10** TYP



STANDARD TRENCH AND PAVEMENT RESTORATION
SCALE: NTS **11** TYP

REVISIONS

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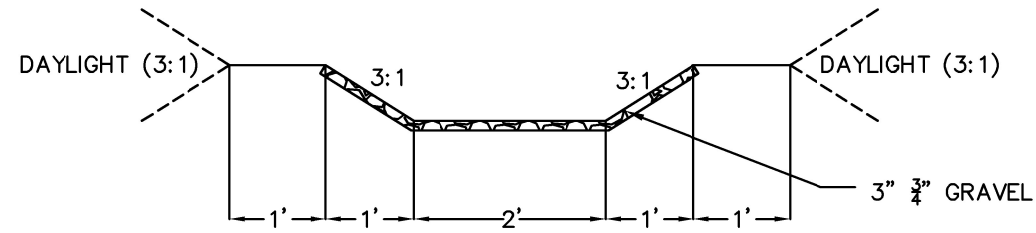


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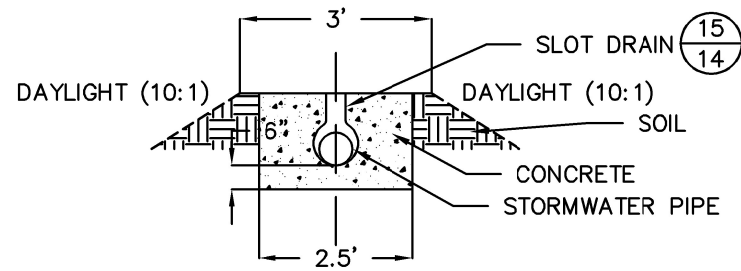
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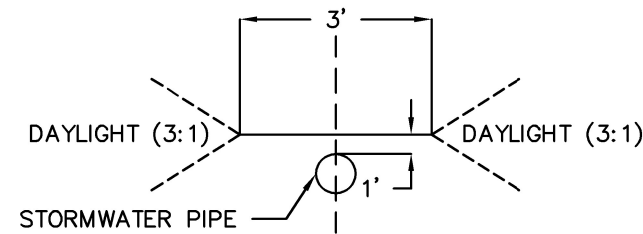
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SWALE 12
SCALE: NTS TYP



DRIVEWAY AND SLOT DRAIN 13
SCALE: NTS TYP



BERM 14
SCALE: NTS TYP

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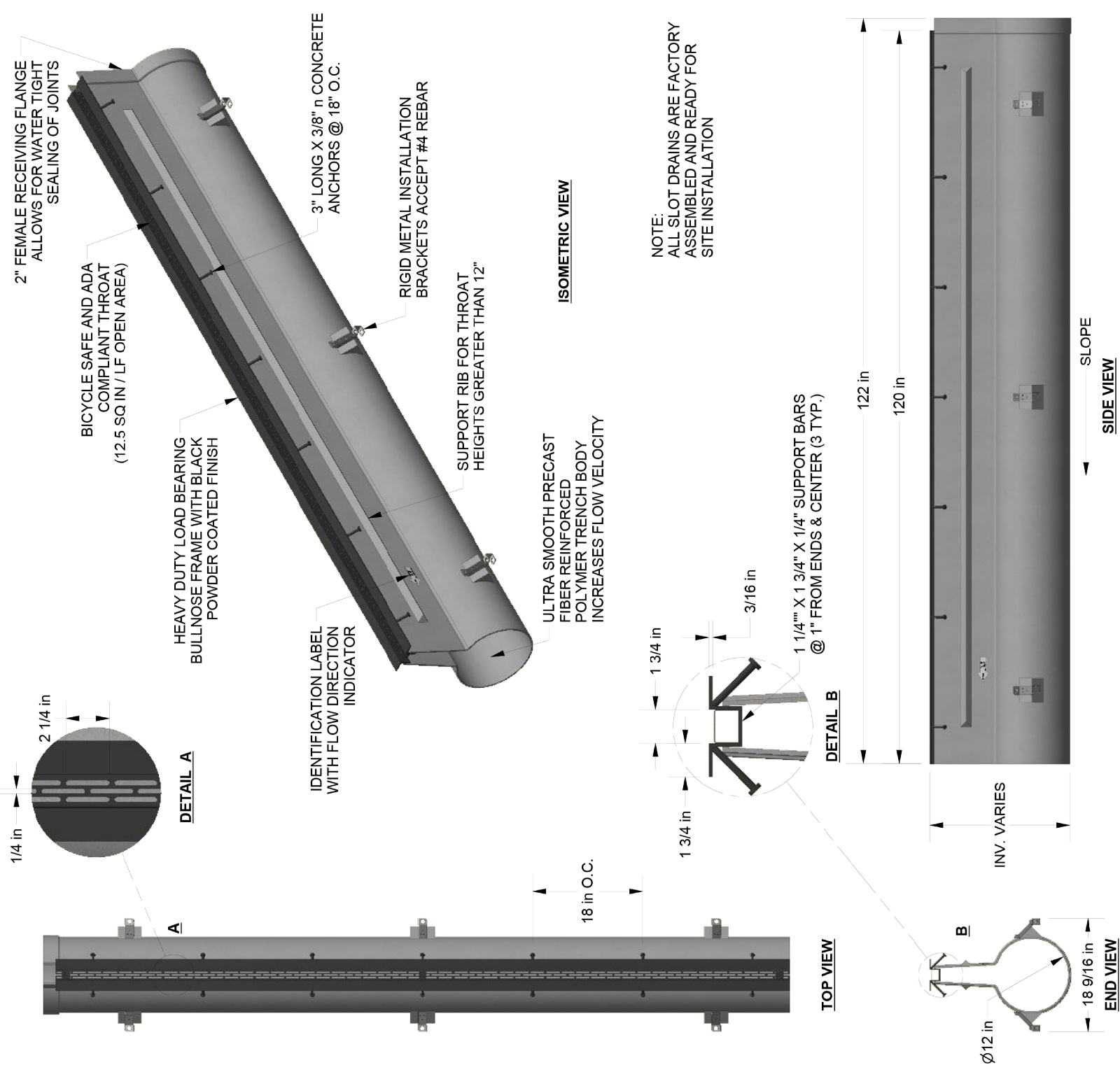
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DTSP12-HDSPBPLSU03 12" VAR. HEIGHT SLOT DRAIN

REV 1



TRENCH MATERIAL	FIBER REINFORCED POLYMER
FRAME MATERIAL	STEEL PER ASTM A-36
FRAME COATING	BLACK POWDER COATED
ANCHOR STUDS	3" X 3/8" Ø
INSTALL DEVICE	RIGID STAMPED METAL FOR #4 BARS
LOAD RATING	HEAVY DUTY
SLOPE	0.5% TYP (CUSTOM SLOPE AVAILABLE)

SLOT DRAIN
SCALE: NTS 15
TYP

STANDARD TOLERANCES
0 = +0.025
0.0 = +0.025
0.00 = +/- 0.13



574c Industrial Way N.
Dallas, GA 30132
PH: 770-505-6575
www.trenchdrain.net

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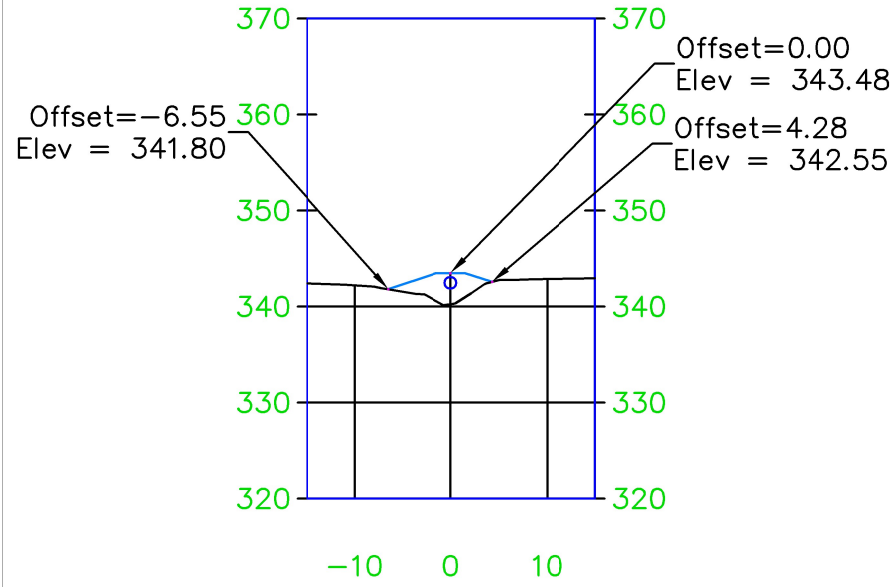
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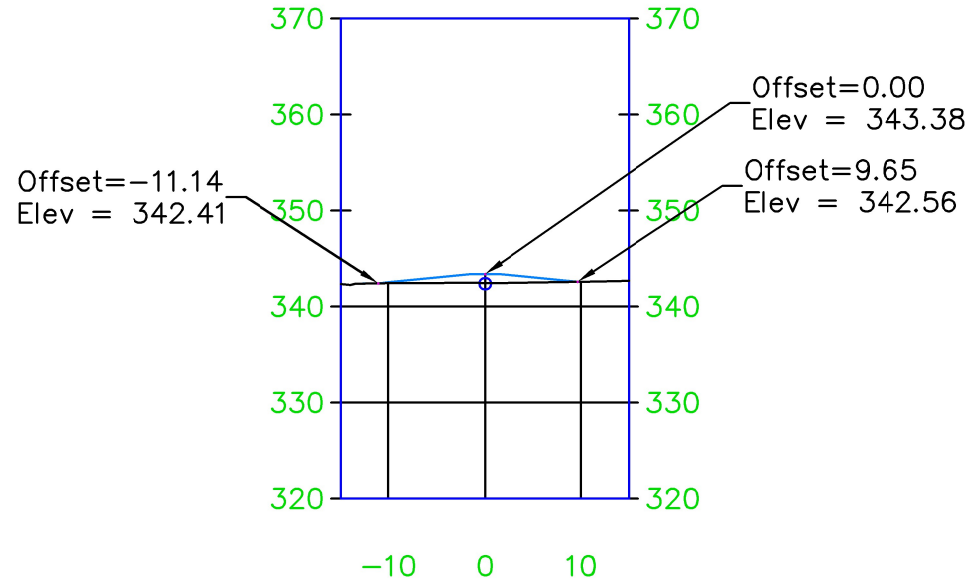
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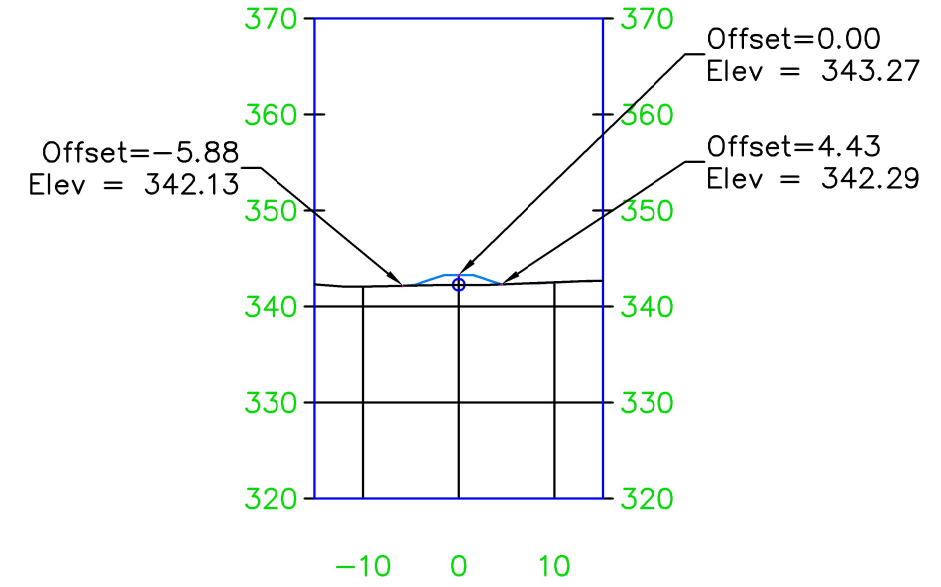
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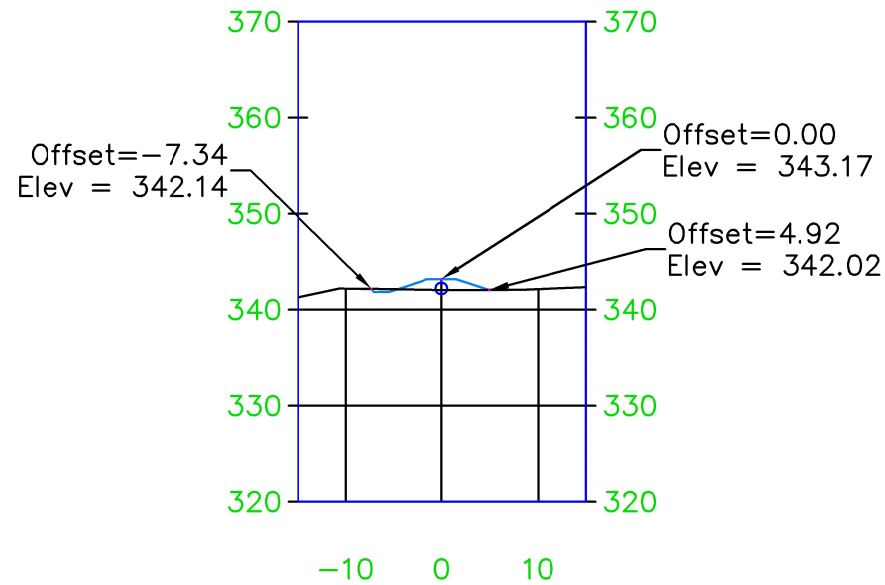
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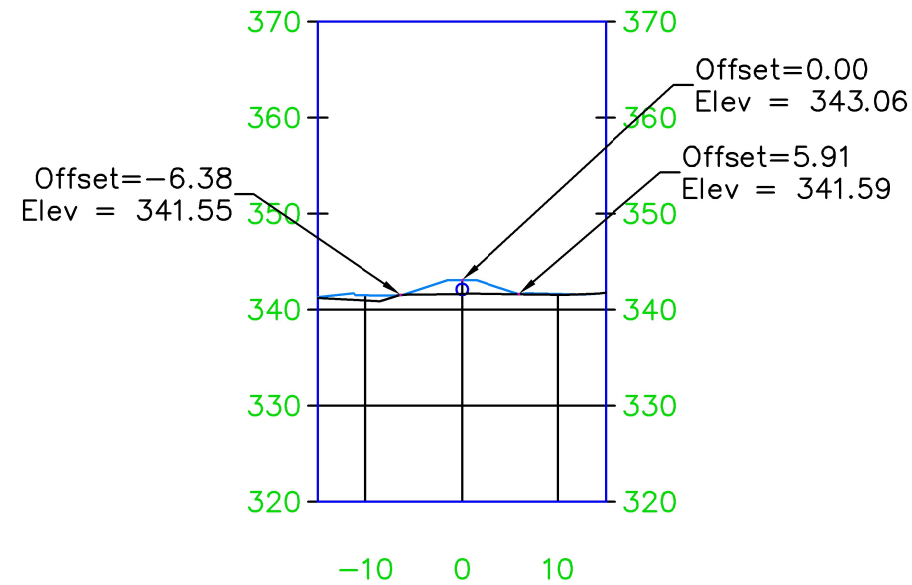
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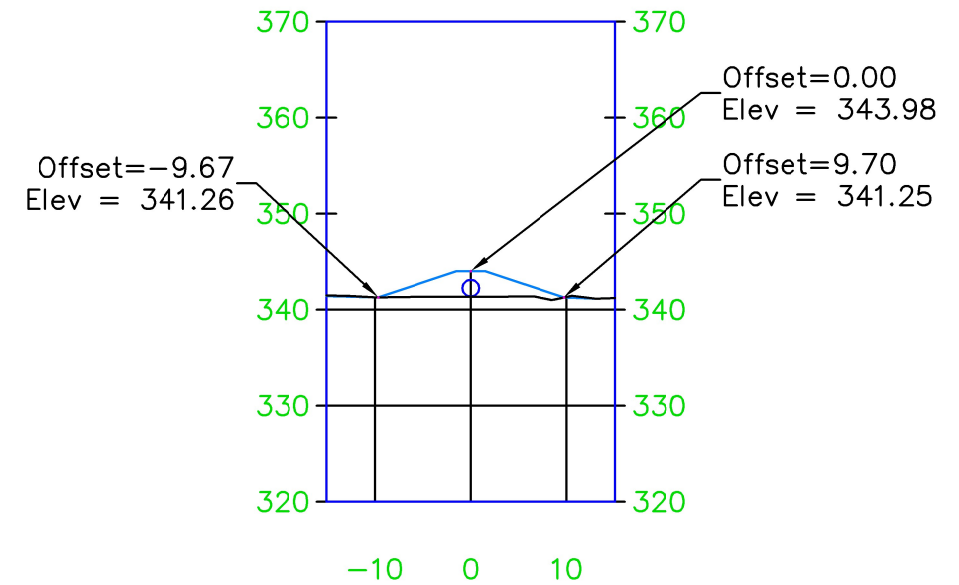
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0+80.00



1+00.00



REVISIONS

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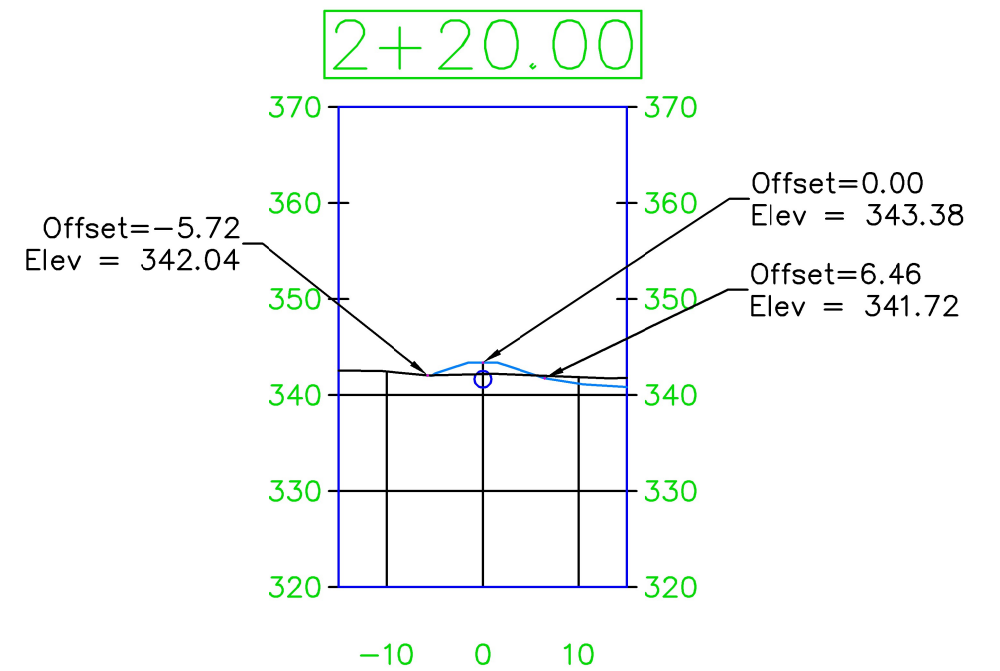
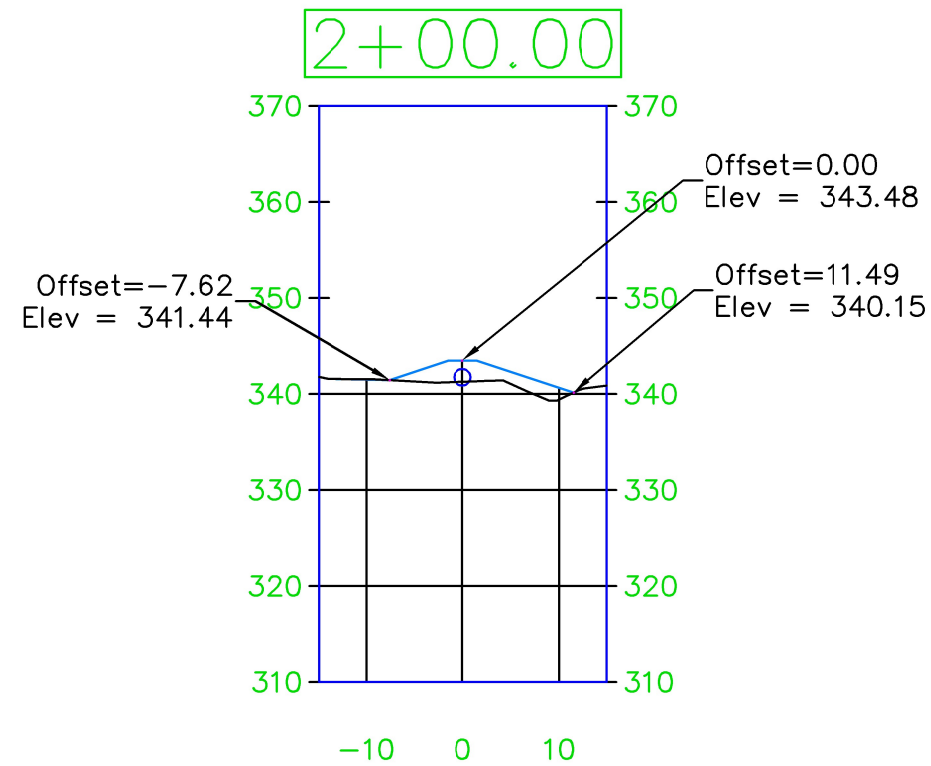
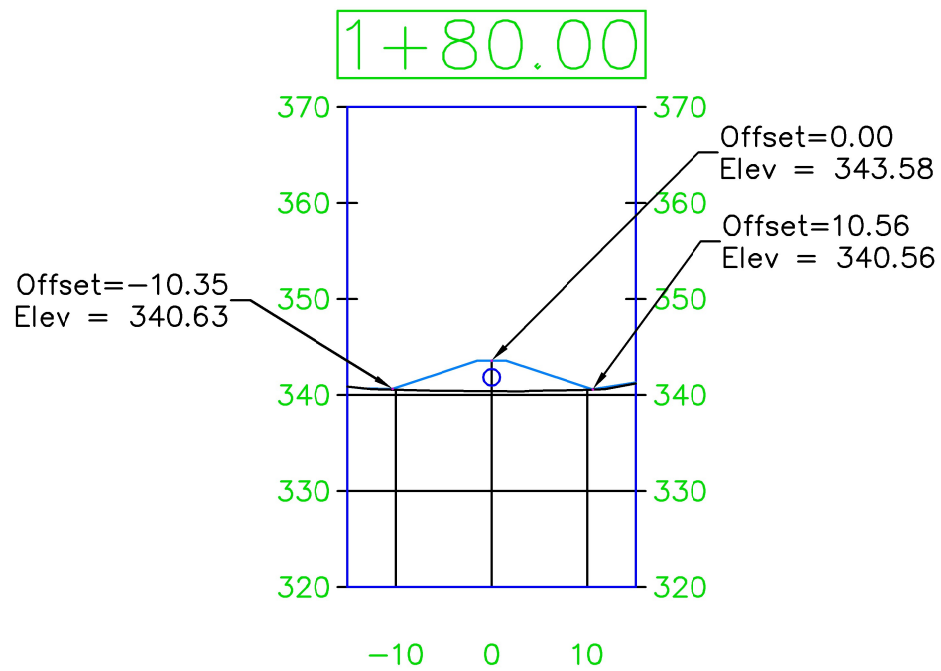
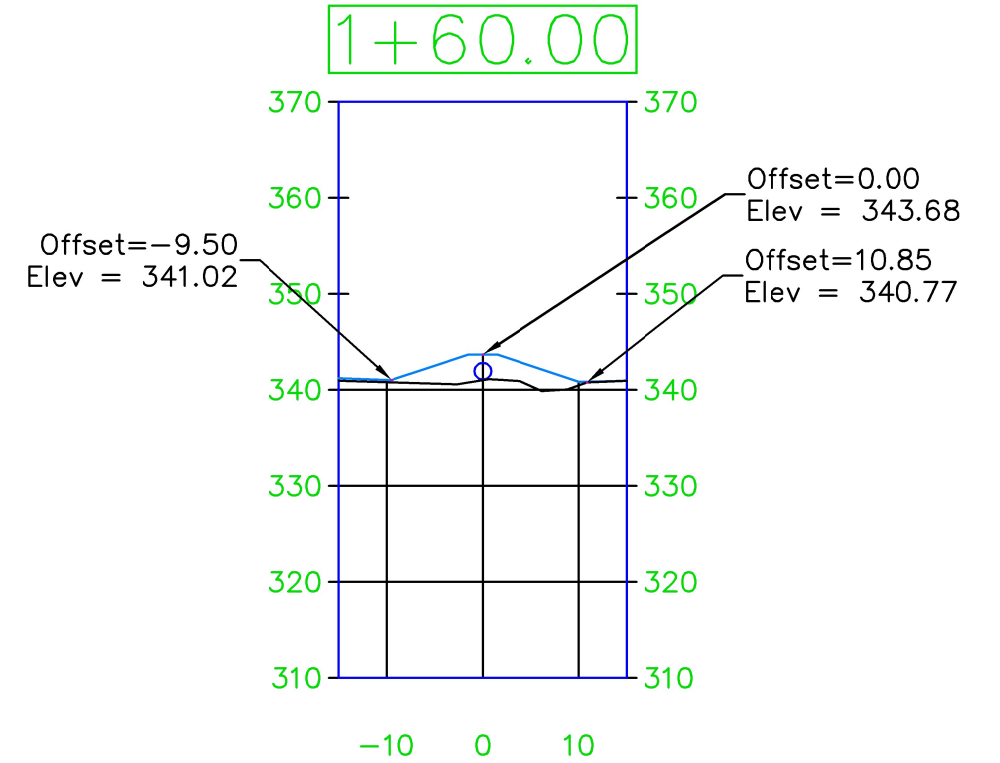
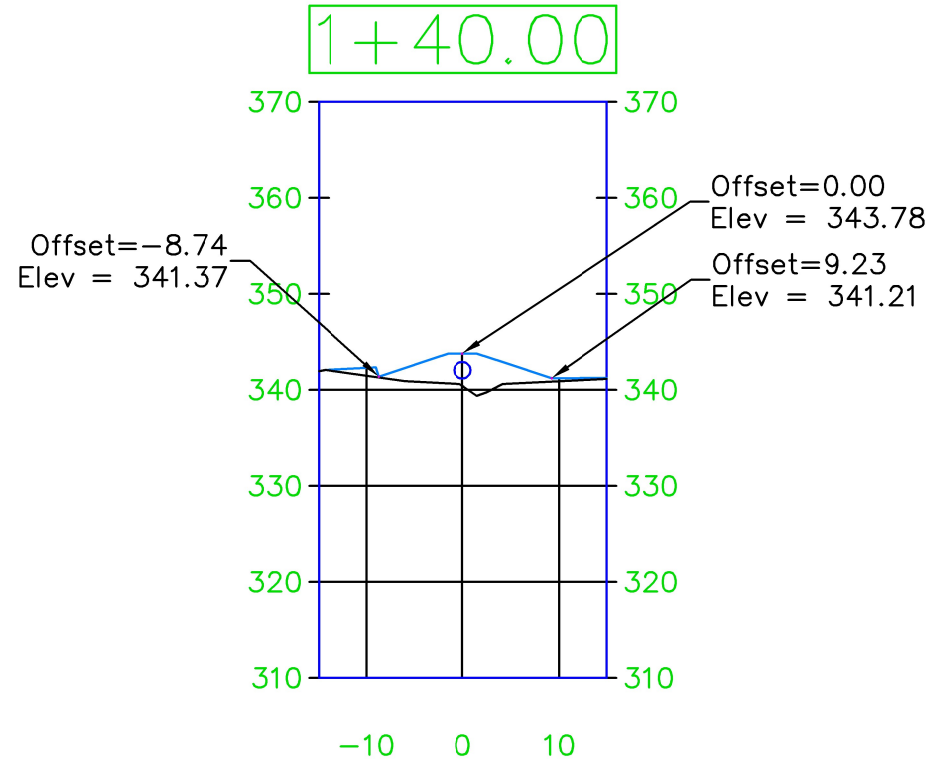
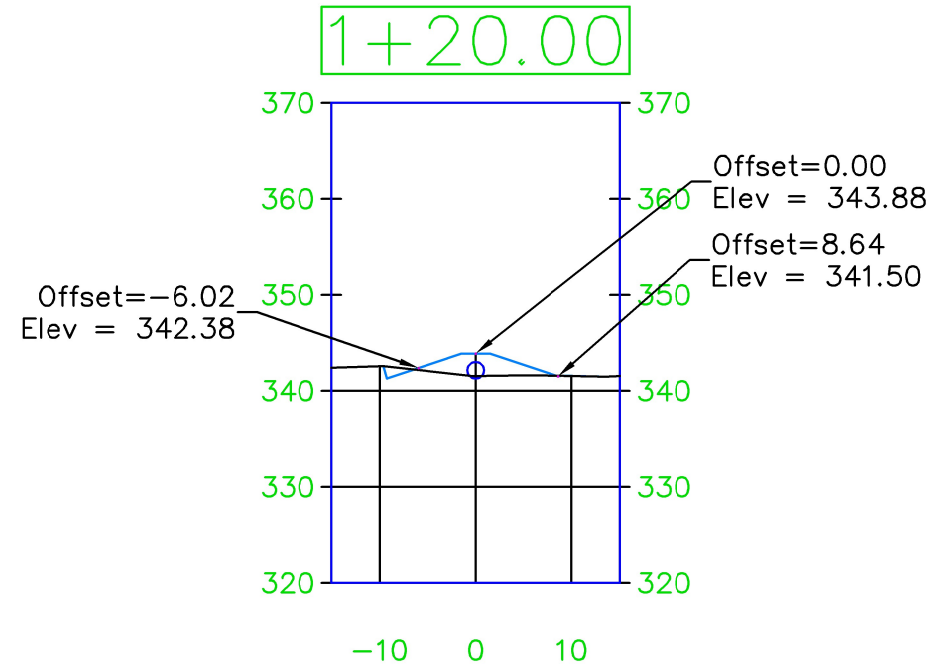
6428 SW GLENWOOD ROAD
STORMWATER RETROFIT
CROSS SECTIONS
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LEGEND

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 — EXISTING GRADE



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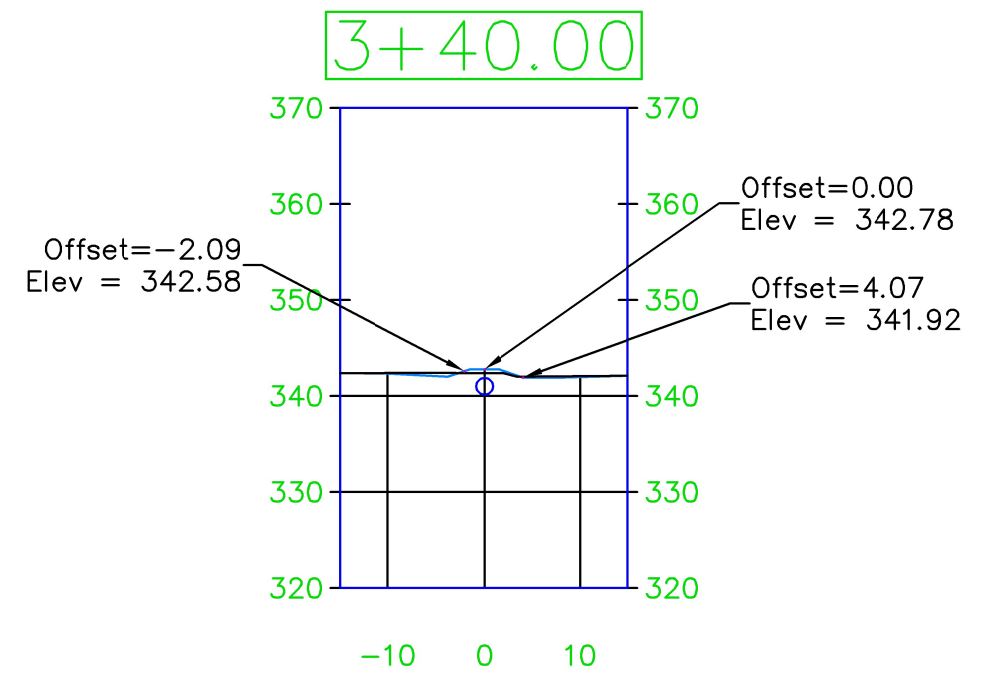
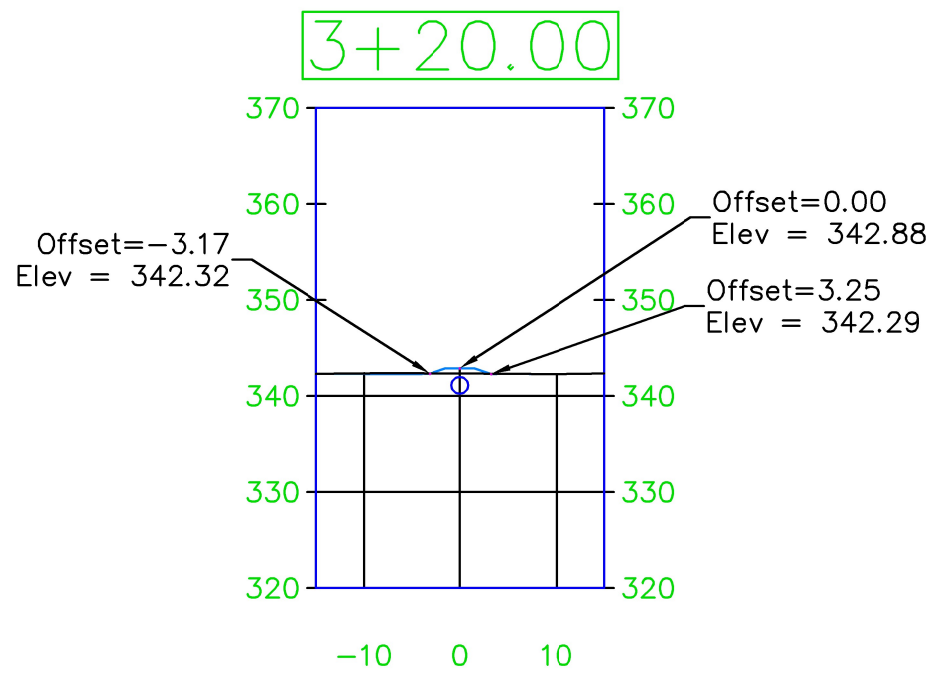
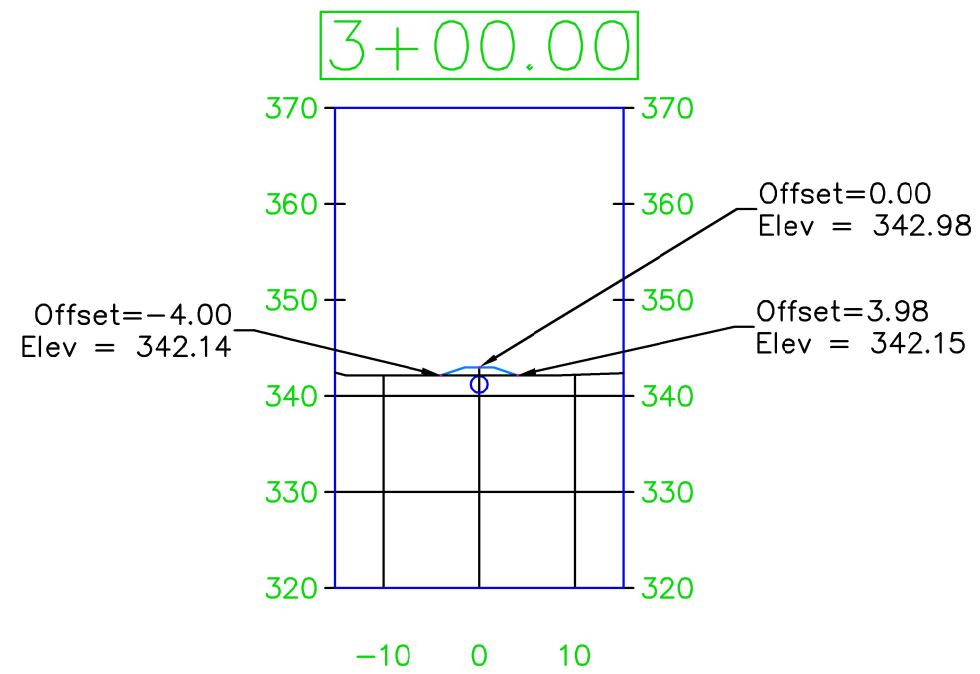
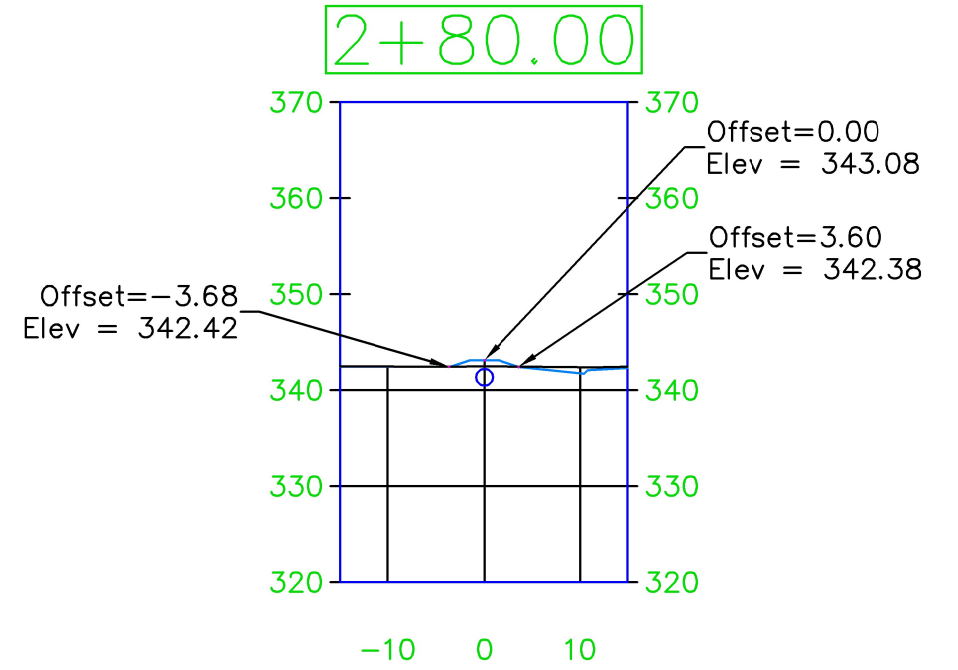
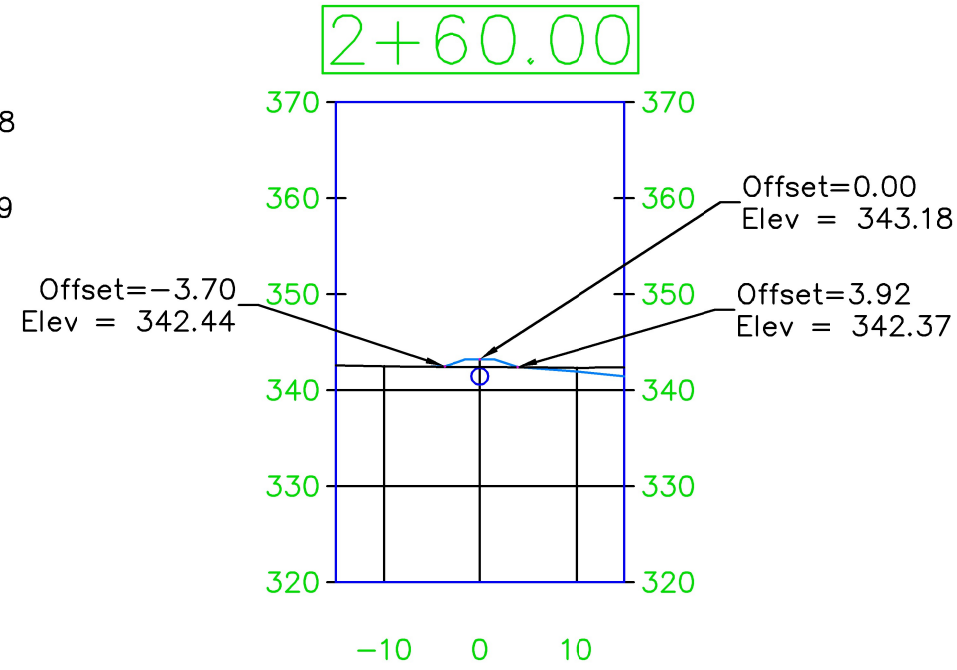
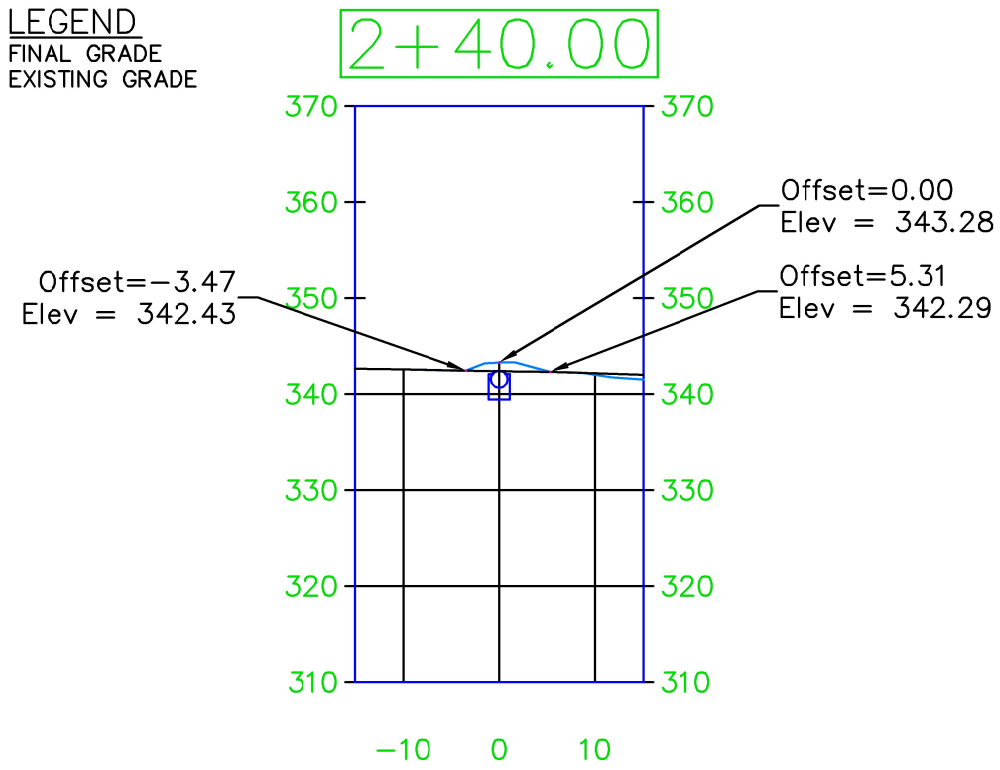
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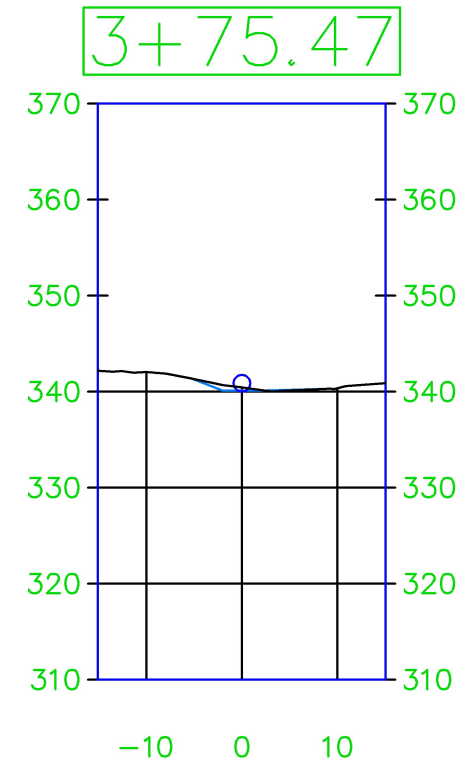
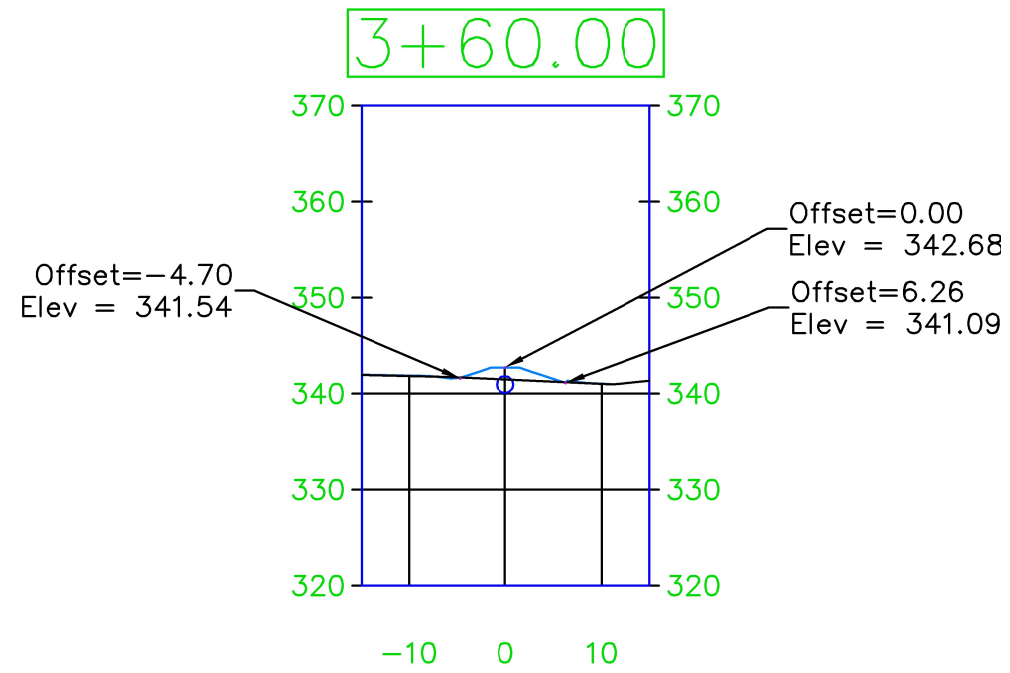
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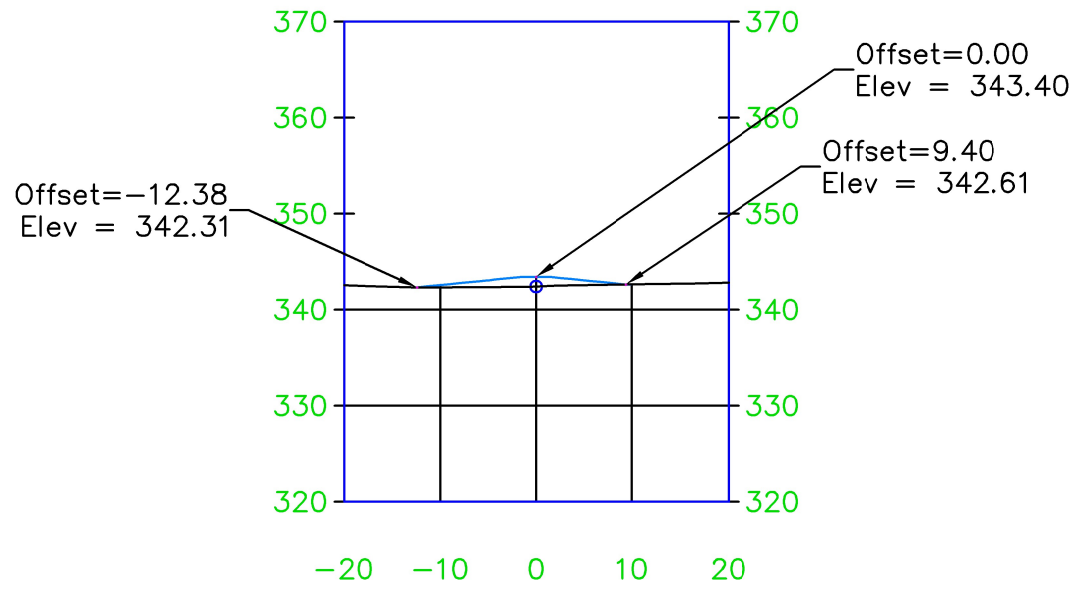
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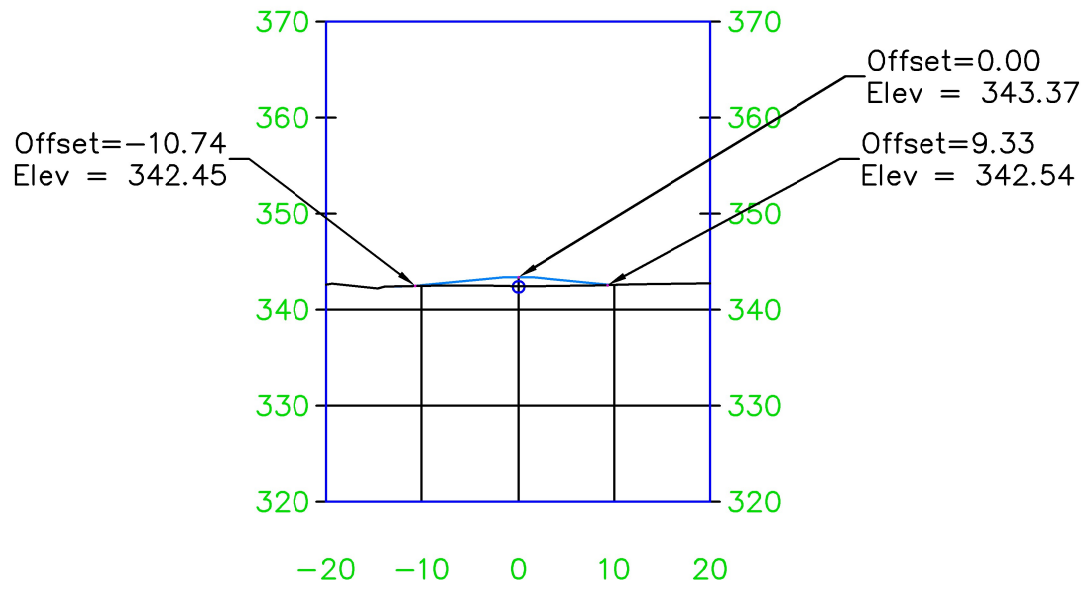
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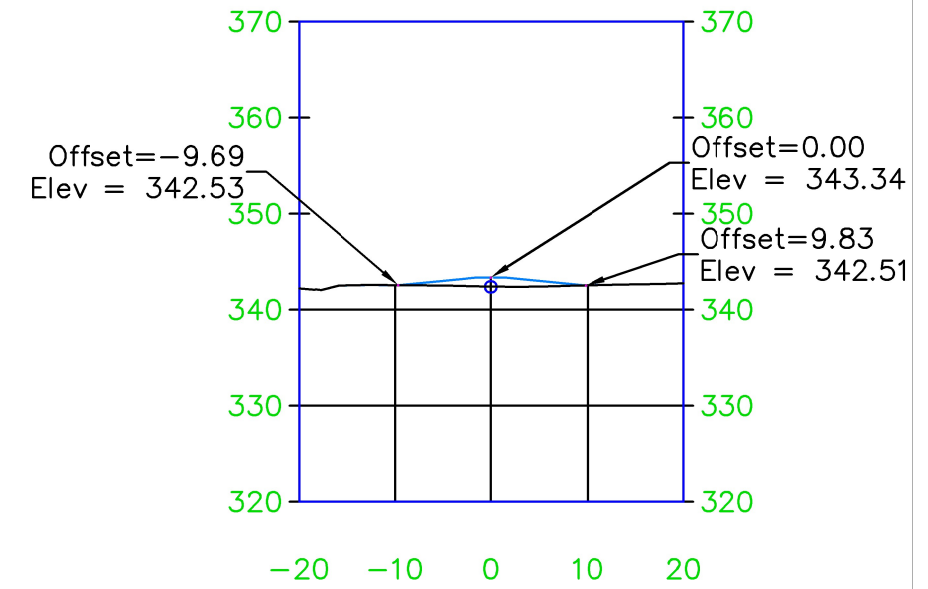
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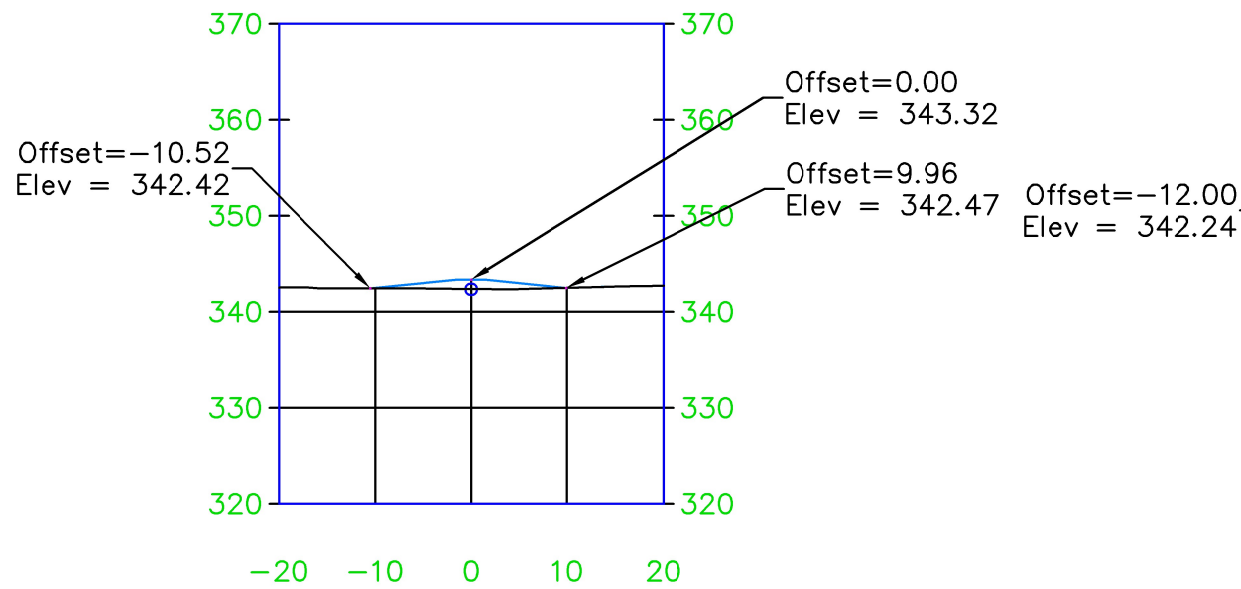
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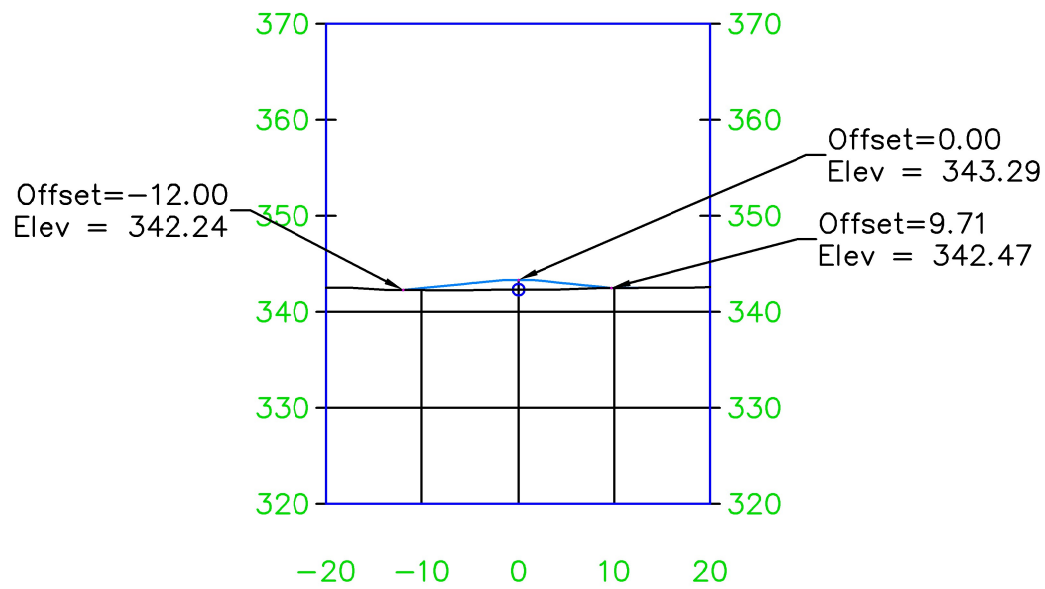
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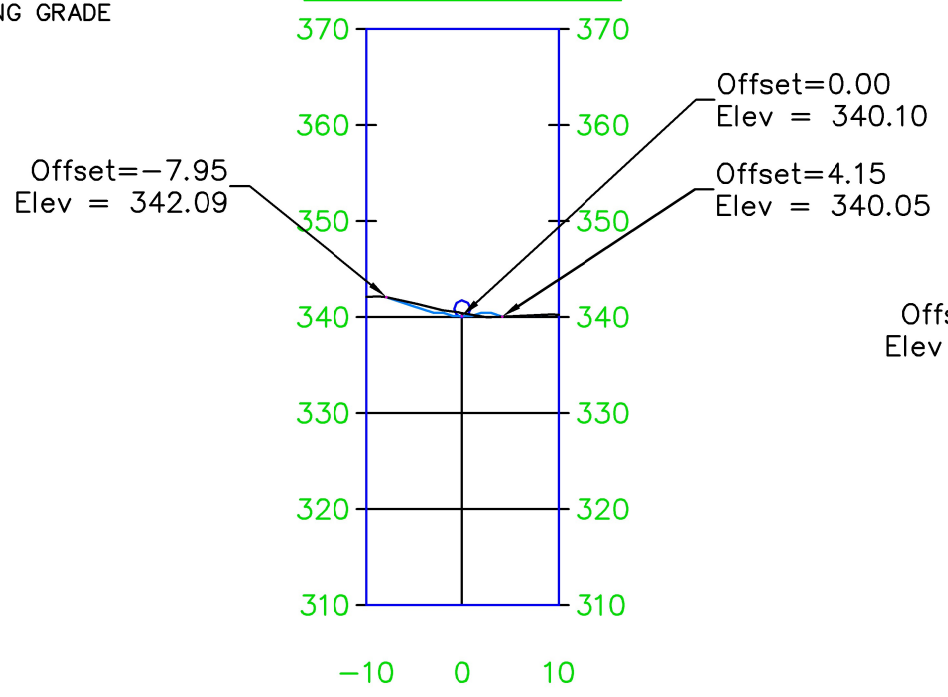
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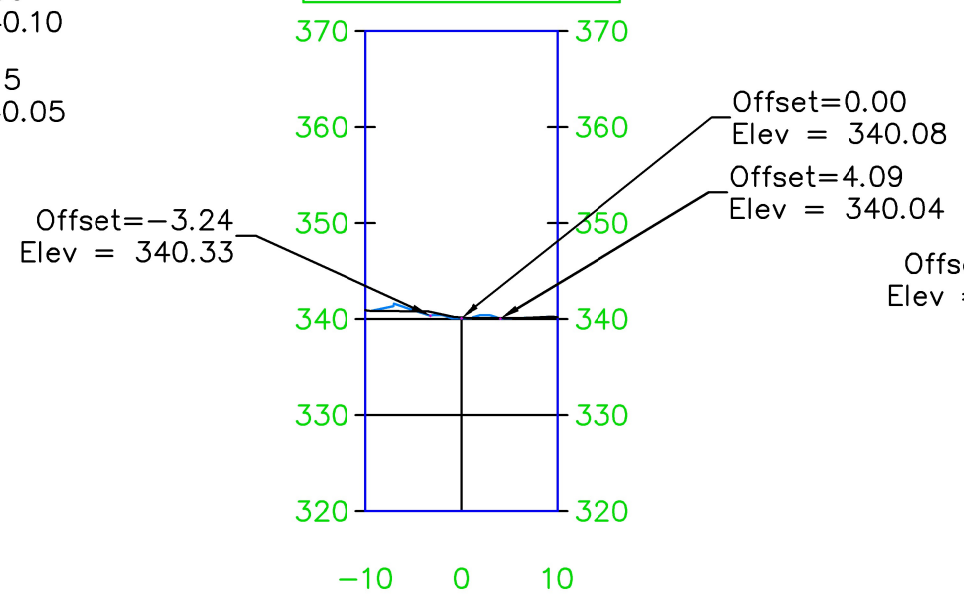
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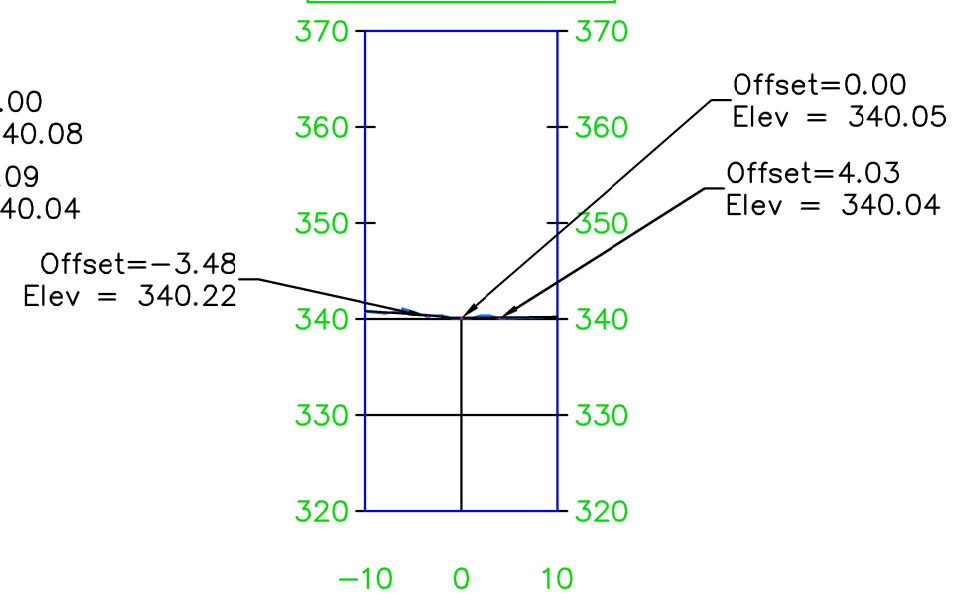
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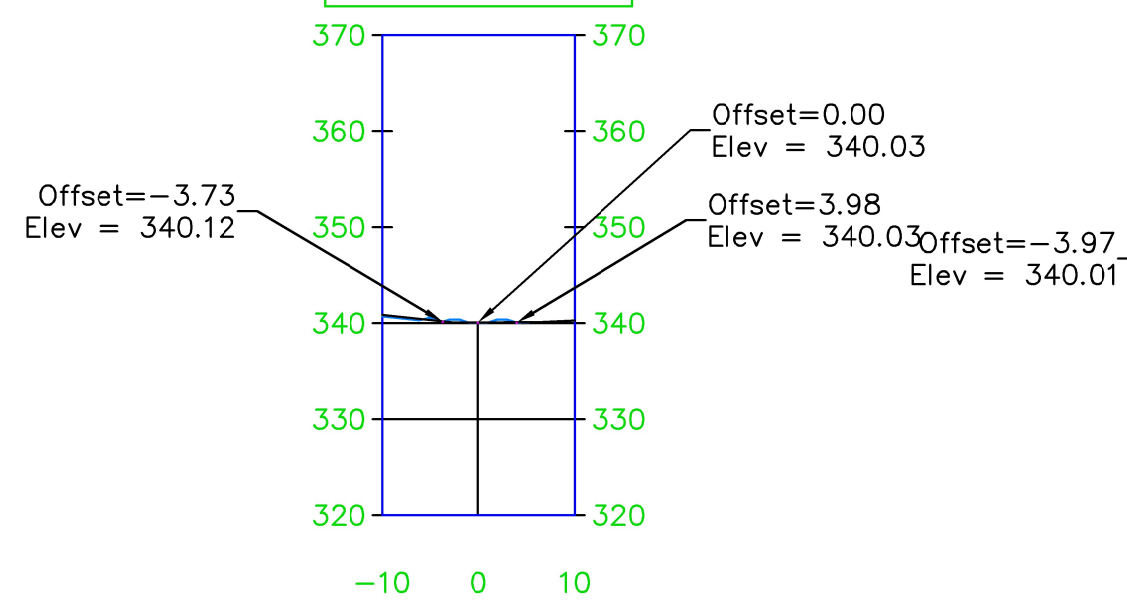
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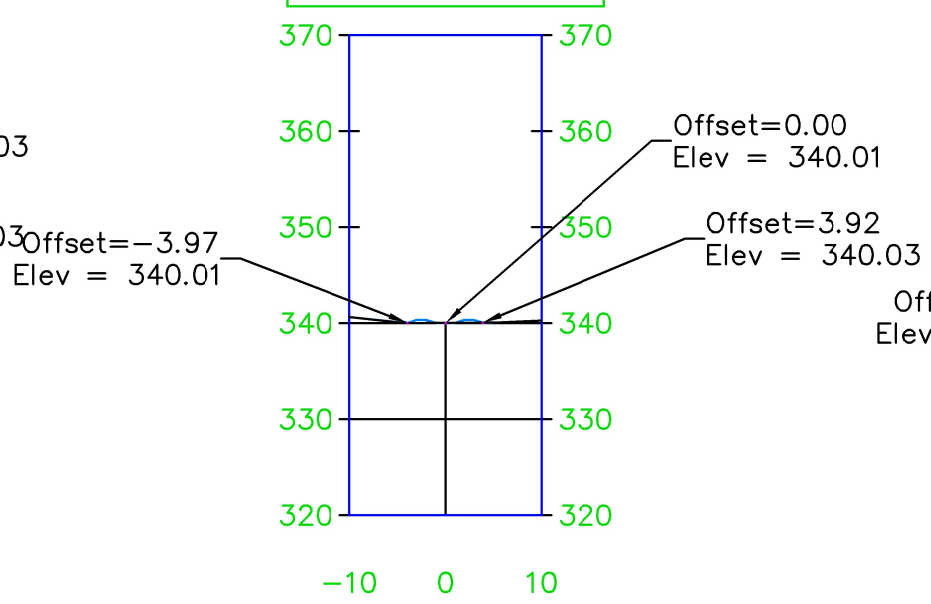
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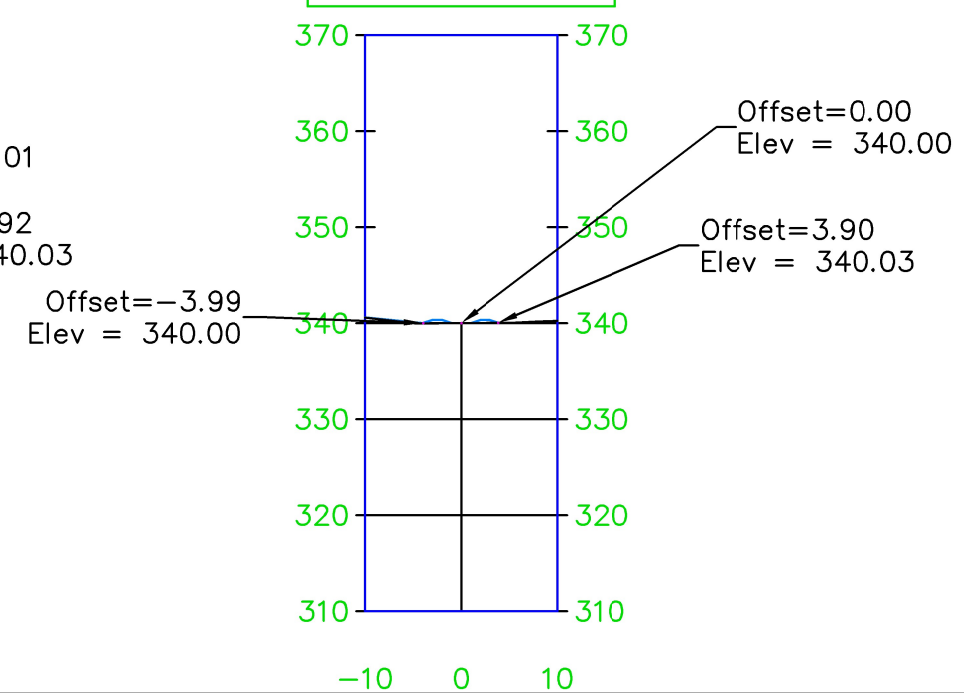
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