

## ABBREVIATIONS

∕	Angle	INSUL.	Insulation
—	Centerline	INT.	Interior
⊘	Diameter or Round	JAN.	Janitor
□	Square	JT.	Joint
(E)	Existing	LAM.	Laminate
—	Property Line	LAV.	Lavatory
A.B.	Anchor Bolt	LT.	Light
A.C.P.	Asphaltic Conc. Paving	MAS.	Masonry
A.D.	Area Drain	MATL.	Material
ADJ.	Adjustable	M.B.	Marker Board
A.F.F.	Above Finish Floor	MAX.	Maximum
AL.	Aluminum	MECH.	Mechanical
ALT.	Alternate	MFR.	Manufacturer
APPROX.	Approximate	MH.	Manhole
ARCH.	Architectural	MIN.	Minimum
A.T.	Acoustical Tile	MISC.	Miscellaneous
A.W.P.	Acoustical Wall Panel	M.O.	Mas. Opening
BD.	Board	M.R.	Mirror
BLDG.	Building	MTD.	Mounted
BLKG.	Blocking	MTL.	Metal
B.M.	Bench Mark	N.	North
CAB.	Cabinet	N.I.C.	Not in Contract
C.A.B.	Cement Asbestos Board	NOM.	Nominal
C.B.	Catch Basin	N.T.S.	Not to Scale
C.G.	Corner Guard	O.C.	On Center
C.H.	Coat Hook	O.D.	Outside Dia.
C.I.	Curb Inlet	O.F.C.I.	Owner Furn/Contr Install
C.I.P.	Cast in Place	O.F.O.I.	Owner Furn/Owner Install
C.J.	Const. Joint	OPNG.	Opening
CLF.	Chain link Fence	OPP.	Opposite
CLG.	Ceiling	O.R.D.	Overflow Roof Drain
CLR.	Clear	P.B.	Particle Board
CMU	Conc. Masonry Unit	P.C.	Precast
C.O.	Clean out	PIP.	Poured in Place
COL.	Column	PL.	Plate
CONC.	Concrete	P. LAM.	Plastic Laminate
CONN.	Connection	PLAS.	Plaster
CONST.	Construct(ion)	PLYWD.	Plywood
CONT.	Continuous	PNT.	Paint
DBL.	Double	P & P	Patch & Paint
DCD	Diper Changing Deck	PR.	Pair
D.F.	Drinking Fountain	P.T.	Pressure Treated
DIA.	Diameter	P.T.D.	Paper Towel Disp.
DIM.	Dimension	R.D.	Roof Drain
DISP.	Dispenser	REF.	Reference
DN.	Down	REFR.	Refrigerator
DR.	Door	REINF.	Reinforced
D.S.	Down spout	REQD.	Required
DTL.	Detail	RESIL.	Resilient
DW	Drywell	RM.	Room
DWG.	Drawing	R.O.	Rough Opening
DWR.	Drawer	R.W.L.	Rain Water Leader
E.	East	S.	South
EA.	Each	S.A.P.	Solid Acrylic Polymer
E.B.	Expansion Bolt	S.B.	Smart Board
E.F.	Exhaust Fan	S.C.	Solid Core
E.H.	Exhaust Hood	SCHED.	Schedule
E.J.	Expansion Joint	S.D.	Soap Dispenser
E.S.	Emergency Shower	SECT.	Section
ELECT.	Electrical	SHT.	Sheet
ELEV.	Elevation	S.J.	Slab Joint
EQ.	Equal	SIM.	Similar
EQUIP.	Equipment	S.N.D.	Sanitary Napkin Dispenser
E.R.D.	Existing Roof Drain	S.N.R.	Sanitary Napkin Receptacle
EXIST.	Existing	SPEC.	Specification
EXP.	Expansion	SQ.	Square
EXT.	Exterior	STD.	Standard
F.A.	Fire Alarm	STL.	Steel
F.D.	Floor Drain	STOR.	Storage
F.F.	Finish Floor	STRCT.	Structural
F.E.	Fire Extinguisher	SUSP.	Suspended
F.E.C.	Fire Exting. Cab	SYM.	Symmetrical
FIN.	Finish	S.S.	Stainless Steel
FLASH.	Flashing	T.	Tread
FLR.	Floor	T.B.	Tack Board
FRP.	Fiberglass Reinf. Panels	T.C.	Top of Curb
FLUOR.	Fluorescent	T.D.	Towel Dispenser
FND.	Foundation	T. & G.	Tongue & Groove
F.O.C.	Face of Conc.	T.I.	Tenant Improvement
F.O.F.	Face of Finish	T.O.P.	Top of Parapet
F.O.S.	Face of Studs	T.O.C.	Top of Concrete
F.R.	Floor Register	T.P.	Toilet Paper Dispenser
FT.	Foot or Feet	TSC	Toilet Seat Cover Disp.
FTG.	Footing	TYP.	Typical
FURR.	Furring	U.	Urinal
FUT.	Future	U.O.N.	Unless Otherwise Noted
FWC	Fabric Wall covering	V.	Vent
GA.	Gauge	V.B.	Vapor Barrier
GALV.	Galvanized	V.C.T.	Vinyl Composite Tile
G.B.	Grab Bar	VERT.	Vertical
GND.	Ground	V.P.	Veneer Plaster
G.W.B.	Gypsum Wallboard	VTR	Vent Through Roof
HB.	Hose Bibb	VWC	Vinyl Wall covering
HCP.	Handicapped	W.	Waste Vent
H.C.	Hollow Core	W/	With
HDW.	Hardware	WB	White board
HDWD.	Hardwood	W.C.	Water Closet
HGT.	Height	WD.	Wood
H.M.	Hollow Metal	W.H.	Water Heater
HORIZ.	Horizontal	W/O	Without
H.S.	Heat Strengthen	WP.	Waterproof
I.D.	Inside Diameter	W.R.	Water Resistant
I.H.	Intake Hood	WT.	Window Treatment
		W.W.F.	Welded Wire Fabric

## ARCHITECTURAL SYMBOLS

	PROPERTY LINE / CORNER
	EXISTING POINT ELEVATION (to Remain)
	FINISH POINT ELEVATION
	DRAINAGE COURSE (ON GRADE)
	NATURAL GAS
	WATER
	UNDERGROUND ELECTRICAL
	OVERHEAD ELECTRICAL/COMMUNICATIONS
	SANITARY SEWER
	STORM DRAIN
	UNDERGROUND TELEPHONE/COMM.
	FENCE
	INVISIBLE LINE ABOVE
	INVISIBLE LINE BELOW
	LINE to be REMOVED
	CENTER LINE
	FINISH FLOOR, BEARING, or BUILDING LINE
	GRID LINE
	DOOR NUMBER
	WINDOW NUMBER KEY (on Exterior Elevations)
	INTERIOR ELEVATION NUMBER
	TEMPERED GLASS REQUIRED
	MATCH LINE
	DETAIL KEY
	DETAIL NUMBER/TITLE
	BUILDING SECTION KEY (With Sheet Number)
	WALL SECTION KEY (With Sheet Number)
	ROOM NUMBER (Elev. Number With Sheet Number) (Name on Tail)
	NOTE KEY
	PARTITION KEY
	ASPHALTIC CONCRETE PAVEMENT (As Noted)
	CONCRETE WALK OR SURFACE (As Noted)
	MASONRY SURFACE (As Noted)
	CONCRETE WALL (PLAN)
	BRICK MASONRY WALL (PLAN)
	CONCRETE MASONRY UNIT WALL
	MAIN BEARING POINT IN WALL (Member as Indicated)
	RATED WALL
	FRAME WALL (PLAN)
	EIFS/ FRAME WALL (PLAN)
	MTL BUILDING WALL (PLAN)
	WOOD FRAMING MEMBER (Nominal Size Noted)
	WOOD BLOCKING MEMBER (Nominal Size Noted)
	WOOD FINISH MEMBER (Net Size Noted)
	PLYWOOD / PARTICLE BOARD
	SOLID ACRYLIC POLYMER
	INSULATION/EIFS, RIGID
	INSULATION, FOAMED IN PLACE
	METAL
	GYP SUM BD / PLASTER / CEMENT BOARD
	INSULATION, BATT AND/OR LOOSE FILL
	TILE
	ASPHALTIC PAVEMENT
	CONCRETE
	EARTH (SECTION)
	ACCESS CONTROL READER
	EXIT SIGN
	FLOURESCENT LIGHTING
	PENDANT/CAN LIGHT
	MECHANICAL DIFFUSER
	ELECTRICAL POWER POLE
	FIRE SUPPRESSION HEAD (IN ACT)
	SPEAKER
	LIGHTING CONTROLS (IN ACT)

## GENERAL NOTES

- ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES, THE MORE STRINGENT IS TO GOVERN; DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND CODES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PROMPTLY AND A RESOLUTION OBTAINED BEFORE PROCEEDING.
- DRAWINGS ARE NOT TO BE SCALED. DIMENSIONAL DATA SHALL BE OBTAINED FROM WRITTEN INFORMATION ONLY, OR AS-BUILT MEASUREMENTS. VERIFY ALL DIMENSIONS BEFORE PROCEEDING. ANY DIMENSIONAL DEVIATION FROM THAT SHOWN ON THE DRAWINGS, WHICH MAY AFFECT THE INTENT OF THE DESIGN OR PROPER INCORPORATION OF ELEMENTS, SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PROMPTLY AND A RESOLUTION OBTAINED BEFORE PROCEEDING.
- THE ARCHITECT SHALL BE INFORMED IMMEDIATELY OF ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE SITE CONDITIONS.
- THE TERM "FINISHED FLOOR (FIN. FLR. or F.F.) REFERS TO THE TOP OF FINISHED SLAB WHERE CONCRETE FLOOR OCCUR AND TOP OF FLOOR SHEATHING AT WOOD STRUCTURES.
- EXTERIOR DIMENSIONS ARE TO THE FACE OF CONCRETE / SHEATHING UNLESS OTHERWISE NOTED. INTERIOR DIMENSIONS ARE TO THE FACE OF FRAMING UNLESS INDICATED AS A CENTERLINE OR SPECIFICALLY NOTED OTHERWISE. CLEAR DIMENSIONS SHALL BE FROM FINISH TO FINISH.
- NOTATIONS OR DETAILS KEYED TO VARIOUS DRAWING SYMBOLS, PATTERNS, ETC. SHALL APPLY TYPICALLY TO ALL SIMILARLY INDICATED ITEMS, LOCATIONS, OR CONDITIONS NOT OTHERWISE KEYED.
- PRESERVE AND PROTECT EXISTING UTILITIES AND BUILDING COMPONENTS WHICH MAY BE PRESENT AND ARE NOT SCHEDULED OR REQUIRED TO BE CHANGED OR REMOVED.
- ADJUST NEW CONSTRUCTION TO ALIGN WITH EXISTING CONSTRUCTION SUCH THAT FINISHES MAY BE APPLIED ALONG STRAIGHT AND TRUE LINES, UNLESS SPECIFICALLY NOTED OTHERWISE.

## PROJECT INFORMATION

JOB ADDRESS:	425 OHME ROAD WENATCHEE, WA 98801
PROPERTY OWNER:	CHELAN COUNTY 400 DOUGLAS STREET WENATCHEE, WA 98801
PARCEL:	232021140050
LEGAL DESCRIPTION:	T 23N R 20EWM S 21 LOT 2 SS# 2008-013 2.7500 ACRES

## DESIGN TEAM

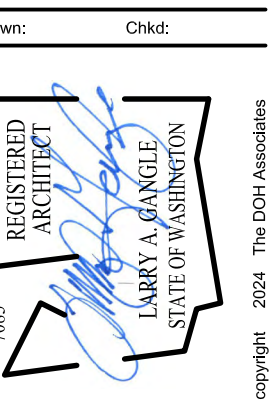
ARCHITECT: THE DOH ASSOCIATES, PS 7 N. WENATCHEE AVENUE, SUITE 500 WENATCHEE, WA 98801 LARRY A. GANGLE, PRINCIPAL PHONE: 509-662-4781	CIVIL: ERLANDSEN 250 SIMON STREET SE EAST WENATCHEE, WA 98802 JEFFREY SUTTON PHONE: 509-884-2562
STRUCTURAL (BUILDINGS 1, 2 & 4): STEEL STRUCTURES AMERICA, INC. P.O. BOX 895 POST FALLS, ID 83877 JASON CLARK, PE PHONE: 208-777-8597	STRUCTURAL (BUILDING 3): PACIFIC ENGINEERING & DESIGN, PLLC 200 SOUTH COLUMBIA STREET, SUITE 300 WENATCHEE, WA 98801 RICH HENDRICKSON, PE, SE PHONE: 509-662-1161
PLUMBING: KARTCHNER ENGINEERING 101 S STEVENS STREET #201 SPOKANE, WA 99201 MARK KARTCHNER/KEVIN PEACOCK PHONE: 509-922-0383	MECHANICAL: KARTCHNER ENGINEERING 101 S STEVENS STREET #201 SPOKANE, WA 99201 MARK KARTCHNER/TANNER MCPHEE PHONE: 509-922-0383
ELECTRICAL: KARTCHNER ENGINEERING 101 S STEVENS STREET #201 SPOKANE, WA 99201 LAYLA LECHICH PHONE: 509-922-0383	

## VICINITY MAP



## DRAWING INDEX

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	S0-B1 STRUCTURAL NOTES S1-B1 FOUNDATION PLAN S2-B1 ROOF FRAMING PLAN S3-B1 BUILDING SECTIONS & FRAMING DETAILS



**CHELAN COUNTY**  
**OLDS STATION CAMPUS**  
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**ARCHITECTS and PLANNERS**  
 7 N Wenatchee Ave Suite 500 - Wenatchee, Washington 98801  
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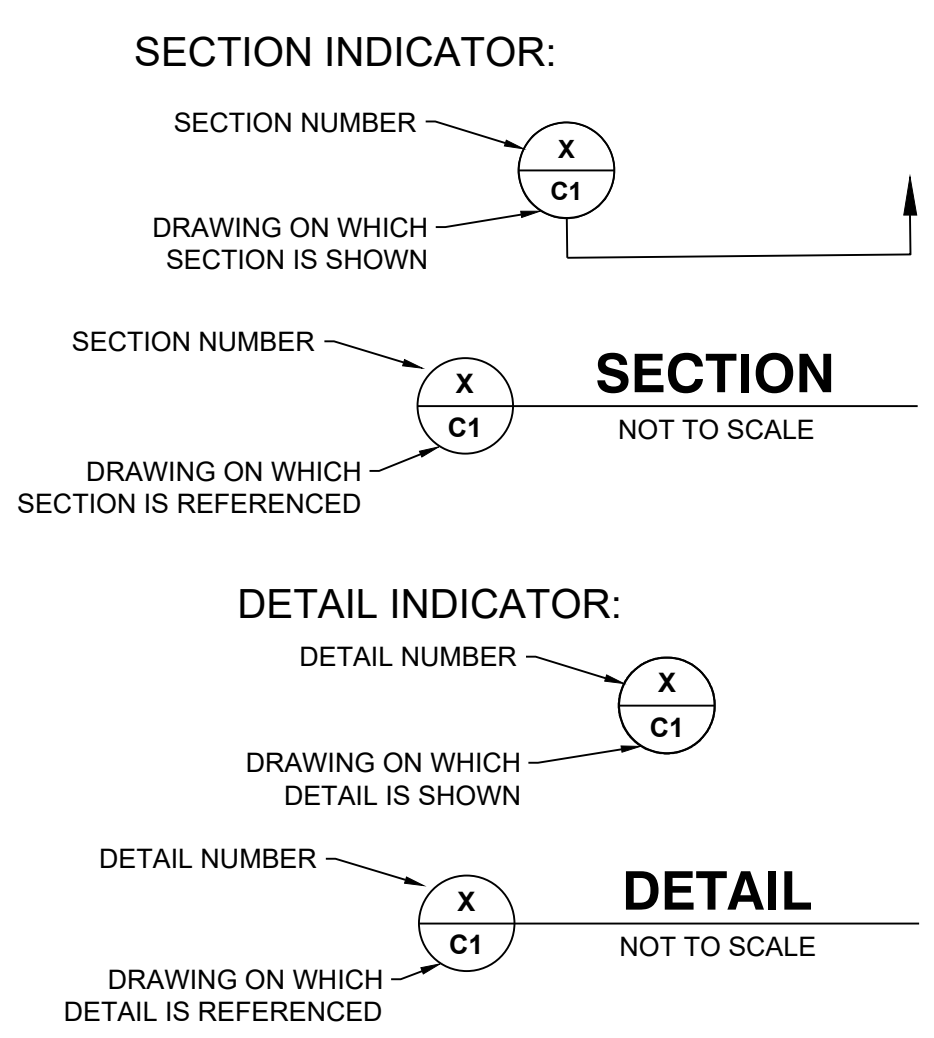
BID SET: 1/6/2025  
 Job: 2344 Date: 1/6/2025  
 DWG ID - 2344 a001-1.dwg

# A0.1



EXISTING	PROPOSED
	ASPHALT
	CONCRETE
	GRAVEL
	DIRT
	LANDSCAPING/VEGETATION
	ASPHALT EDGE
	CONCRETE EDGE
	GRAVEL EDGE
	CURB TOP BACK
	CURB FLOWLINE
	DITCH CENTERLINE
	LANDSCAPE EDGE
	FENCING
	MAJOR CONTOUR
	MINOR CONTOUR
	OVERHEAD ELECTRICAL LINE
	UNDERGROUND ELECTRICAL LINE
	OVERHEAD FIBER OPTIC LINE
	UNDERGROUND FIBER OPTIC LINE
	GAS LINE
	IRRIGATION LINE
	SANITARY SEWER LINE
	STORM DRAIN LINE
	STORM DRAIN CULVERT
	OVERHEAD TELECOM LINE
	TELECOM LINE
	POTABLE WATER MAIN
	STORM DRAIN MANHOLE
	STORM DRAIN CATCH BASIN
	STORM DRAIN CLEANOUT
	SANITARY SEWER CLEANOUT
	SANITARY SEWER MANHOLE
	ELECTRICAL TRANSFORMER
	ELECTRICAL HANDHOLE
	LUMINAIRE
	UTILITY POLE
	WATER METER
	WATER MAIN VALVE
	FIRE HYDRANT
	BLOWOFF
	TRAFFIC SIGN
	GUARDRAIL FACE
	ROCK EXPOSED
	EDGE OF WATER
	EASEMENT LINE
	EASEMENT CENTERLINE
	LOT BOUNDARY
	RW LINE

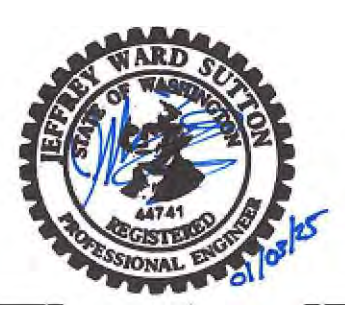
EXISTING	DESCRIPTION
	TELEPHONE MANHOLE
	TELEPHONE PEDESTAL
	GAS MANHOLE
	GAS VALVE
	GAS METER
	GAS RISER
	ELECTRICAL MANHOLE
	ELECTRICAL VAULT CENTER
	ELECTRICAL TRANSFORMER
	ELECTRICAL OUTLET
	ELECTRICAL HANDHOLE
	ELECTRICAL METER
	TV MANHOLE
	TV PEDESTAL
	TV POLE
	WATER MANHOLE
	WATER VALVE
	WATER BLOWOFF
	WATER METER
	FIRE HYDRANT
	WELL
	IRRIGATION MANHOLE
	IRRIGATION AIR RELEASE
	IRRIGATION RISER
	IRRIGATION VALVE
	FIBER OPTIC MANHOLE
	FIBER OPTIC PEDESTAL
	ELECTRICAL POLE
	ELECTRICAL POLE WITH TRANSFORMER
	GUY POLE
	GUY ANCHOR
	RAILROAD CONTROL BOX
	DECIDUOUS TREE
	CONIFEROUS TREE
	DECIDUOUS BUSH
	CONIFER BUSH
	MAILBOX
	SURVEY MONUMENT



Sheet Number	Sheet Title
C-010	LEGEND AND ABBREVIATIONS
C-020	CIVIL NOTES - SHEET 1
C-030	CIVIL NOTES - SHEET 2
C-100	EXISTING CONDITIONS
C-110	EXISTING DETAILS - SHEET 1
C-120	EXISTING DETAILS - SHEET 2
C-200	DEMOLITION PLAN
C-250	TESC PLAN
C-290	CIVIL SITE PLAN
C-300	GRADING OVERVIEW
C-305	DRIVEWAY PLAN AND PROFILE
C-307	DRIVEWAY SECTIONS
C-310	GRADING PLAN
C-350	DETAILED GRADING - SHEET 1
C-360	DETAILED GRADING - SHEET 2
C-362	DETAILED GRADING - SHEET 3
C-380	STORM PLAN
C-382	STORM LINE PROFILES
C-400	UTILITY PLAN
C-500	SEWER PLAN
C-600	WATER PLAN
C-610	WATER LINE PROFILES
C-900	CIVIL DETAILS - SHEET 1
C-902	CIVIL DETAILS - SHEET 2
C-910	CIVIL DETAILS - SHEET 3
C-920	CIVIL DETAILS - SHEET 4
C-930	CIVIL DETAILS - SHEET 5
C-940	CIVIL DETAILS - SHEET 6
C-950	CIVIL DETAILS - SHEET 7

**ABBREVIATIONS**

AAF	AVERAGE ANNUAL FLOW	E	EAST	L	LENGTH	S	SOUTH
AB	ANCHOR BOLT	EA	EACH	LB	POUND	SC	SCUM
AC	ASPHALT CONCRETE	ECC	ECCENTRIC	LB/HR	POUNDS PER HOUR	SCH	SCHEDULE
ACP	ACOUSTIC PANEL	EFF	EFFLUENT	LF	LINEAR FEET	SDG	SMALL DIAMETER GRAVITY
ADJ	ADJUSTABLE	EG	EXISTING GRADE			SF	SQUARE FEET
AFF	ABOVE FINISHED FLOOR	EL	ELEVATION	MAG	MAGNETIC	SHT	SHEET
AFN	AUDITOR FILE NUMBER	ELL	ELBOW OR BEND	MATL	MATERIAL	SL	SLOPE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	ELEC	ELECTRICAL	MAH	METAL ACCESS HATCH	SOC	SOCKET
ALTR	ALTERNATE	EMBD	EMBEDMENT	MAX	MAXIMUM	SP	STATIC PRESSURE
ALUM	ALUMINUM	EMERG	EMERGENCY	MECH	MECHANICAL	SPECS	SPECIFICATIONS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	EX	EXISTING	MRF	MANUFACTURER	SQ	SQUARE
AP	ACCESS PANEL	EXP	EXPANSION	MGD	MILLION GALLONS PER DAY	SS	STAINLESS STEEL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	EW	EACH WAY	MG/L	MILLIGRAM PER LITER	STA	STATION
ASPH	ASPHALT	EVCS	END VERTICAL CURVE STATION	MH	MANHOLE	STD	STANDARD
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS			MIN	MINIMUM	STL	STEEL
ASSY	ASSEMBLY	FAB	FABRICATED	MMF	MAXIMUM MONTH FLOW	STM	STORM
AVE	AVENUE	FCA	FLANGED COUPLING ADAPTER	MD	MID ORDINATE	STRG	STRONG
		FCO	FLOOR CLEANOUT	MDV	MOTOR OPERATED VALVE	SUC	SUSPENDED CEILING
		FD	FLOOR DRAIN			SWD	SIDE WATER DEPTH
BI	BLACK IRON	FF	FACTORY FINISH, FINISHED FLOOR	N	NORTH		
BLD FLG	BLIND FLANGE	FG	FINISHED GRADE	NO	NUMBER	TAPD	TAPERED
BLDG	BUILDING	FIG	FIGURE	NPW	NON-POTABLE WATER	TB	TOP AND BOTTOM
BLK	BLOCK	FIN	FINISHED	NTS	NOT TO SCALE	TC	TOP OF CURB
BLKING	BLOCKING	FIPT	FEMALE INTERNATIONAL PIPE THREAD			TDH	TOTAL DYNAMIC HEAD
BOD	BOTTOM OF DUCT, BIOCHEMICAL OXYGEN DEMAND	FL	FLANGE	ORD	OPPOSED BLADE DAMPER	TEL	TELEPHONE
BOT	BOTTOM	FLN	FLOW LINE	OC	ON CENTER	TFE	TOE FACE EXPOSED OF WALL
BOW	BOTTOM OF WALL	FLEX	FLEXIBLE	OD	OUTSIDE DIAMETER	THK	THICK
BRG	BRIDGE	FLR	FLOOR	OF	OUTSIDE FACE	THRD	THREADED
BTWN	BETWEEN	FPM	FEET PER MINUTE	OPNG	OPENING	THRU	THROUGH
BVC	BEGIN VERTICAL CURVE	FT	FEET	OPP	OPPOSITE	TK	TANK
		FT2	SQUARE FEET	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	TO	TOP
C	CONDUIT	FTG	FOOTING			TOC	TOP OF CONCRETE
CAP	CORRUGATED ALUMINUM PIPE			OHP	OVERHEAD POWER	TOF	TOP OF FOOTING
CB	CATCH BASIN	GA	GAUGE	OZ	OUNCE	TOG	TOP OF GROUT
CCP	CONCRETE CYLINDER PIPE	GALV	GALVANIZED			TOP	TOP OF PAD
CD	CEILING DIFFUSER	GEN	GENERAL	PE	PLAIN END	TOS	TOP OF SLAB
CDF	CONTROLLED DENSITY FILL	GI	GALVANIZED IRON	PERF	PERFORATED	TOW	TOP OF WALL
CFM	CUBIC FEET PER MINUTE	GOVT	GOVERNMENT	PG	PERFORMANCE GRADE	TS	TOTAL SOLIDS
CI	CAST IRON	GPD	GALLONS PER DAY	PHF	PEAK HOUR FLOW	TSS	TOTAL SUSPENDED SOLIDS
CL	CLASS	GPM	GALLONS PER MINUTE	PL	PLATE	TYP	TYPICAL
CLAR	CLARIFIER	GRD	GRADE	PLYWD	PLYWOOD	UHMW	ULTRA HIGH MOLECULAR WEIGHT,
CL	CLEARANCE	GRT	GROUT	PRV	PRESSURE REDUCING VALVE		POLYETHYLENE
CMP	CORRUGATED METAL PIPE	GRV	GROOVED PIPE OR COUPLING	PS	PUMP STATION, PRIMARY SLUDGE OR PIPE SUPPORT	UV	ULTRAVIOLET
CMU	CONCRETE MASONRY UNIT	GSM	GALVANIZED SHEET METAL				
CO	CLEANOUT	GV	GATE VALVE	PSF	POUNDS PER SQUARE FOOT	VC	VERTICAL CURVE
CONC	CONCRETE	GWB	GYPSPUM WALL BOARD	PSI	POUNDS PER SQUARE INCH	VERT	VERTICAL
CONN	CONNECTION			PSIG	POUNDS PER SQUARE INCH GAUGE	VFD	VARIABLE FREQUENCY DRIVE
CONT	CONTRACTOR, CONTINUOUS	H	HEIGHT, HOLLOW	PVC	POLYVINYL CHLORIDE	VIS	VINYL SHEET
CONV	CONVEYOR	HB	HOSE BIB	PVI	POINT OF VERTICAL INTERSECTION	VS	VOLATILE SOLIDS
CPLG	COUPLING	HEX	HEXAGONAL	PVMT	PAVEMENT	VTR	VENT THROUGH ROOF
CONTIN	CONTINUED	HORIZ	HORIZONTAL				
CP	CORNER POST	HP	HORSEPOWER	QT	QUARTER	W	WIDTH, WEST
CPEP	CORRUGATED POLYETHYLENE PIPE	HMA	HOT MIX ASPHALT	QUAD	QUADRANT	W/	WITH
CSBS	CRUSHED SURFACING BASE COURSE	HDG	HOT DIPPED GALVANIZED			WAS	WASTE ACTIVATED SLUDGE
CSH	CONCRETE SURFACE HARDENER	HR	HOUR	RAG	RETURN AIR GRILLE	WCO	WALL CLEANOUT
CSTC	CRUSHED SURFACING TOP COURSE	HDPE	HIGH DENSITY POLYETHYLENE	RAS	RETURN ACTIVATED SLUDGE	WD	WIDE
CTR	CENTER			RD	ROOF DRAIN	W/O	WITHOUT
CU	COPPER	ID	IDENTIFICATION, INSIDE DIAMETER	RED	REDUCER	WRF	WATER RECLAMATION FACILITY
CX	CONNECT TO EXISTING	IE	INVERT ELEVATION	REINF	REINFORCE	WSL	WATER SURFACE LEVEL
		IN	INCH	REQD	REQUIRED	WWF	WELDED WIRE FABRIC
D	DRAIN	INF	INFLUENT	RESSL	REINFORCING STEEL	WWM	WELDED WIRE MESH
DI	DUCTILE IRON	INV	INVERT	RGF	RECIRCULATING GRAVEL FILTER	WWTF	WASTEWATER TREATMENT FACILITY
DIA	DIAMETER			RLX	RELOCATE EXISTING		
DIR	DIRECTION	J BOX	JUNCTION BOX	RM	ROOM	YH	YARD HYDRANT
DISCH	DISCHARGE			RO	ROUGH OPENING		
DIV	DIVISION			RS	RAW SEWAGE		
DN	DOWN			RW	RIGHT-OF-WAY		
DO	DISSOLVED OXYGEN			RX	REMOVE EXISTING		
DP	DIFFERENTIAL PRESSURE						



Drawn: TW    Ckd: JSDD



**CHELSEAN COUNTY**  
**OLDS STATION CAMPUS**  
 WENATCHEE, WASHINGTON 98801  
 425 OHME GARDEN ROAD

**The DOH Associates, PS**  
 ARCHITECTS and PLANNERS  
 7 N Wenatchee Ave Suite 500, Wenatchee, Washington 98801  
 Telephone (509) 662-4781 Facsimile (509) 663-3253

BID SET: 1/6/2025  
 Job: 2344 Date: 1/6/2025  
 DWG ID - 20240220

**C-010**

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STANDARD DEVELOPMENT NOTES:

- 1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND CITY OF WENATCHEE STANDARDS. THE MORE STRINGENT SPECIFICATION SHALL GOVERN. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL TESTS ARE COMPLETED IN ACCORDANCE WITH THIS SECTION.
2. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE ENGINEER OR DESIGNEE PRIOR TO COMMENCING ANY WORK ON SITE. PLEASE CONTACT THE OFFICE AT (509) 888-3200. FAILURE TO COMPLY MAY RESULT IN A DELAYED CONSTRUCTION START.
3. ALL PLANS AND REPORTS MUST BE APPROVED PRIOR TO PRE-CONSTRUCTION MEETING AND MUST BE PRESENT AT THE PRE-CONSTRUCTION MEETING, THE TRAFFIC CONTROL PLAN, PER MUTCD AND WSDOT WORK ZONE TRAFFIC CONTROL GUIDELINES, MUST ALSO BE PRESENT AT THE PRE-CONSTRUCTION MEETING. FAILURE TO COMPLY MAY RESULT IN A DELAYED PRE-CONSTRUCTION MEETING.
4. APPROVED CONSTRUCTION PLANS SHALL BE ON THE JOB SITE WHEN PROJECT IS UNDER CONSTRUCTION.
5. CATCH BASINS SHALL BE TYPE 1 OR TYPE 2, WSDOT STANDARD PLANS, WITH STANDARD, VANED OR HERRINGBONE FRAME AND GRATE UNLESS OTHERWISE NOTED. THE OUTSIDE EDGE OF THE CATCH BASIN SHALL BE PLACED AT THE INTERSECTION OF THE CURB AND GUTTER AND 0.010' TO 0.015' BELOW FINISHED GRADE, OR IN THE GUTTER LINE OF THE ROLLED EDGE SECTION.
6. IF ADEQUATE INSPECTION IS NOT COMPLETED AND DOCUMENTED BEFORE COMPLETION OF THE ROADWAY CONSTRUCTION, IT MAY BE NECESSARY FOR CORE DRILLING AND TESTING TO BE PERFORMED TO ASSURE AN ACCEPTABLE QUALITY ROADWAY. WHEN CORE DRILLING IS FOUND TO BE NECESSARY, THE APPLICANT WILL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED.
7. IT WILL BE THE APPLICANT'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES IN ORDER TO ASSURE THAT ALL LINES, PIPES, POLES AND OTHER APPURTENANCES ARE PROPERLY LOCATED AND THEIR INSTALLATION IS COORDINATED WITH THE ROAD CONSTRUCTION. ALL UTILITY RELOCATION WORK SHALL BE AT THE EXPENSE OF THE APPLICANT.
8. BURIED UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION. THE APPLICANT SHALL HAVE UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION.
9. ONSITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE APPLICANT AND BE IN PLACE PRIOR TO CONSTRUCTION. ANY PROBLEMS OCCURRING BEFORE FINAL ACCEPTANCE WITHIN 18 MONTHS THEREAFTER SHALL BE CORRECTED BY THE APPLICANT. AT THE END AS DIRECTED BY THE ENGINEER, THE APPLICANT SHALL REMOVE ALL TEMPORARY, NON-DEGRADABLE EROSION CONTROL MEASURES.
10. THE APPLICANT SHALL BE RESPONSIBLE FOR CONTROLLING DUST THAT MAY BE GENERATED BY THE CONSTRUCTION PROJECT.
11. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD.
12. SLOPES SHALL BE STABILIZED TO PREVENT EROSION. IN CASE EROSION OCCURS IN DITCHES, DITCH LINING IS TO BE PROVIDED AS REQUESTED AND SPECIFIED BY THE COUNTY ENGINEER.
13. ALL BACKFILL AND EMBANKMENT SHALL BE CONSTRUCTED USING METHOD C, WHERE MAXIMUM LOOSE LIFT THICKNESS SHALL NOT EXCEED 8" AND ALL LIFTS SHALL BE COMPACTED TO LEAST 95% MAXIMUM DENSITY.
14. WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE APPLICANT SHALL SAW CUT AND OVERLAY AND FEATHER NEW PAVEMENT TO PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. APPLICATION OF A THIN TACK COAT OF EMULSIFIED ASPHALT SHALL BE APPLIED TO INSURE PROPER BONDING.
15. THE COMPLETE SURFACE OF ALL COURSES SHALL BE OF UNIFORM TEXTURE, SMOOTH, UNIFORM AS TO CROWN AND GRADE, AND FREE FROM DEFECTS OF ALL KINDS. THE COMPLETED SURFACE OF THE WEARING COURSE SHALL NOT VARY MORE THAN 1/8 INCH FROM THE LOWER EDGE OF A 10 FOOT STRAIGHTEDGE PLACED ON THE SURFACE PARALLEL TO THE CENTERLINE. THE TRANSVERSE SLOPE OF THE COMPLETED SURFACE OF THE WEARING COURSE SHALL VARY NOT MORE THAN 1/4 INCH IN 10 FEET FROM THE RATE OF TRANSVERSE SLOPE SHOWN ON THE PLANS.
16. COMPACTION TESTING OF SUBGRADE, EMBANKMENT, BASE COURSE, TOP COURSE PAVEMENT, PIPE BEDDING AND TRENCH BACKFILL SHALL BE PROVIDED.
17. MATERIALS SAMPLING AND TESTING SHALL BE AT A FREQUENCY AND MAGNITUDE AS SPECIFIED IN THE STANDARD SPECIFICATIONS OR DETERMINED BY THE ENGINEER. PRIVATE THIRD PARTY AND INDEPENDENT TESTING LABORATORY SHALL PERFORM TESTING AND SAMPLING. CERTIFIED TEST REPORTS SHALL BE FURNISHED TO THE ENGINEER FOR ALL TESTS PERFORMED. THE MORE STRINGENT SPECIFICATION SHALL GOVERN. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL TESTS ARE COMPLETED IN ACCORDANCE WITH THIS SECTION.

- 18. PRIOR TO PLACING ANY FILL ON THE SUBGRADE, THE SUBGRADE SHALL BE STRIPPED OF ALL VEGETATION AND COMPACTED IN ACCORDANCE TO THE GEOTECHNICAL EVALUATION BY NELSON GEOTECHNICAL ASSOCIATES, INC DATED SEPTEMBER 23, 2021. REMOVAL OF UNSUITABLE MATERIAL AND REPLACEMENT WITH SELECT MATERIAL MAY BE REQUIRED. ALL SLOPES SHALL BE TERRACED PRIOR TO PLACEMENT OF ANY AND ALL FILL MATERIAL IN ORDER TO PROVIDE A FIRM AND UNYIELDING FOUNDATION IN ACCORDANCE WITH WSDOT SECTION 2-03.3(14).
19. IN ORDER TO ENSURE THAT CONSTRUCTION MEETS SPECIFICATIONS, PERIODIC INSPECTIONS WILL BE REQUIRED BY AN AASHTO CERTIFIED, SOILS TESTING LABORATORY. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL TESTS ARE SCHEDULED AND COMPLETED IN ACCORDANCE WITH THESE REQUIREMENTS.
20. PRIOR TO THE PLACEMENT OF ANY FILL MATERIAL, BASE COURSE, TOP COURSE OR ASPHALT, THE CONTRACTOR SHALL SUBMIT MATERIAL CUT SHEETS TO THE ENGINEER FOR REVIEW AND APPROVAL. MATERIAL CUT SHEETS WILL CONSIST OF GRADATIONS AND PROCTOR CURVES FOR FILL MATERIAL, BASE COURSE AND TOP COURSE. MIX DESIGNS WILL BE REQUIRED FOR ALL ASPHALT.
21. FILL MATERIAL, BASE COURSE AND TOP COURSE SHALL BE COMPACTED IN ACCORDANCE TO THE GEOTECHNICAL EVALUATION BY NELSON GEOTECHNICAL ASSOCIATES, INC DATED SEPTEMBER 23, 2021. ASPHALT SHALL BE PLACED AND COMPACTED PER SECTION 32 10 00.
22. COMPACTION TESTING SHALL BE COMPLETED AT THE FOLLOWING INTERVALS:
a. SUBGRADE - 2 TESTS EVERY 5,000 SQUARE FEET WITH
b. FILL MATERIAL - 2 TESTS EVERY 5,000 SQUARE FEET WITH ONE OF TESTS SHALL BE TAKEN PER EACH 12-INCHES OF FILL PLACED
c. BASE OR TOP COURSE - 2 TESTS EVERY 5,000 SQUARE FEET.
d. ASPHALT - 2 TESTS EVERY 5,000 SQUARE FEET, PER EACH LIFT OF ASPHALT PLACED
23. THE MATERIAL TESTING AND CERTIFICATION REPORTS SHALL BE COLLECTED ON A DAILY BASIS WITH THE CURRENT DAY REPORTS DUE BY 5 PM THE FOLLOWING DAY. FOLLOWING CONSTRUCTION, THE MATERIALS TESTING LABORATORY SHALL SUBMIT TO THE ENGINEER CERTIFICATION, STAMPED BY A PROFESSIONAL ENGINEER, THAT ALL TESTS MET THE REQUIREMENTS OF THE SPECIFICATIONS.
24. THE CONTRACTOR SHALL COORDINATE, COLLECT, MAINTAIN AND TRANSMIT TO THE ENGINEER, A COMPLETE COPY OF ALL MATERIAL TESTING AND CERTIFICATION REPORTS WITH THE AS-CONSTRUCTED DRAWINGS. AS-CONSTRUCTED DRAWINGS SHALL ACCURATELY AND COMPLETELY REPRESENT THE FINISHED LINES, GRADES, DIMENSIONS AND CHARACTER OF THE COMPLETED WORK. ALL CONSTRUCTION CERTIFICATION AND RECORDS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

DUST ABATEMENT:

- 1. SITE RECOMMENDATIONS
THE PROJECT WILL REQUIRE THE CONTRACTOR TO BE RESPONSIBLE FOR THE FOLLOWING METHODS OF DUST SUPPRESSION:
TEMPORARY
• WATERING AS DESCRIBED BELOW
• SITE TRAFFIC CONTROL AS DESCRIBED BELOW
PERMANENT
• VEGETATIVE COVERINGS AS DESCRIBED IN THE REVEGETATION PLAN
• PAVE OR GRAVEL ACCESS ROAD AS DESCRIBED BELOW
2. GENERAL DESIGN CRITERIA
THE DESIGN OF ANY DUST CONTROL PROJECT SHOULD LIMIT THE AMOUNT OF SOIL OR DUST PARTICULATES EXPOSED AT ONE TIME, AND REDUCE THE POTENTIAL FOR DUST GENERATION. THE PERFORMANCE OBJECTIVES ESTABLISHED FOR THE PARTICULAR PROJECT SHOULD ALSO BE CONSIDERED. SOME PROJECT SITES MAY REQUIRE MULTIPLE SOLUTIONS TO BOTH INDUSTRIAL AND LAND DISTURBANCE DUST CONTROL PROBLEMS. THEREFORE IT MAY BE APPROPRIATE TO DEVELOP A PHASED DESIGN APPROACH THAT UTILIZES A COMBINATION OF TEMPORARY AND PERMANENT MEASURES FOR DUST CONTROL ON A SITE BY SITE BASIS. THE FOLLOWING SECTIONS WILL EXPLAIN THESE ALTERNATIVES FURTHER.
TEMPORARY MEASURES
3. WATERING - TO SUPPRESS FUGITIVE DUST EMISSIONS FROM UNPAVED ROADS DUE TO WIND AND/OR TRAFFIC.
COMMENT/RECOMMENDATIONS ON WATERING
• APPLY WITH SPRINKLERS, WATER TRUCKS, AND/OR ANY OTHER SUITABLE MEANS.
• MOST SUITABLE FOR SHORT DISTANCES OR ON A TEMPORARY BASIS.
4. SITE TRAFFIC CONTROL - TO DECREASE DISTURBANCE OF SOIL AND FUGITIVE DUST GENERATED FROM UNNECESSARY VEHICLE TRAFFIC.
COMMENT/RECOMMENDATIONS ON SITE TRAFFIC CONTROL
• POST SIGNS, ERECT FENCING, AND/OR PLACE BARRIERS TO DIRECT TRAFFIC.
• DESIGNATE SPECIFIC HAUL AND/OR ACCESS ROADS
• DESIGNATE OFF-SITE OR LIMITED ACCESS ON-SITE PARKING FOR WORKERS.
• LIMIT PUBLIC VEHICLE ACCESS.
• LIMIT NECESSARY VEHICLE SPEEDS TO LESS THAN 10 MPH.
5. CHEMICAL STABILIZERS (TEMPORARY) - THOSE STABILIZERS THAT ARE COMMERCIALY AVAILABLE AND APPROVED CHEMICAL SOIL BINDING AGENTS TO ARTIFICIALLY CRUST SOIL AND PREVENT SOIL MOVEMENT DURING WINDY CONDITIONS FOR A TEMPORARY PERIOD CAN BE USED. CHEMICAL STABILIZERS (EXTENDED ACTION) ARE SIMILAR TO TEMPORARY BUT DIFFERENT APPLICATION RATES AND/OR MATERIALS MAY BE USED THAT EXTEND THE DURABILITY AND LONGEVITY OF THE ARTIFICIAL SOIL CRUST.
COMMENT/RECOMMENDATIONS ON CHEMICAL STABILIZERS
• BEST SUITED TO AREAS NOT SUBJECT TO DAILY DISTURBANCE.
• APPLY ACCORDING TO MANUFACTURERS/VENDORS RECOMMENDATIONS.
• MANAGE TO PROTECT STABILIZED AREA.
• EXTENDED ACTION APPLICATIONS MAY STAND UP TO MODERATE TRAFFIC.
6. VEGETATIVE COVERINGS - USE ESTABLISHED COVER TO TEMPORARILY OR PERMANENTLY STABILIZE SOIL AGAINST WIND EROSION AND EMISSION OF FUGITIVE DUST.
COMMENT/RECOMMENDATIONS ON VEGETATIVE COVERINGS
• EITHER TEMPORARY OR PERMANENT COVER CAN BE ESTABLISHED USING STANDARD AGRICULTURAL METHODS, HYDROSEEDING, OR HAND SEEDING.
• MAINTENANCE OF ORIGINAL VEGETATIVE COVER IS AN OPTION
• PERMANENT RESTORATION THAT APPROXIMATES NATIVE COVER CAN BE ACHIEVED USING LOCALLY RECOMMENDED VARIETIES AND SEEDING RATES AS APPROPRIATE FOR THE SITE.
• THE SOIL MUST BE KEPT MOIST TO ESTABLISH COVER.
PERMANENT MEASURES
7. PAVE OR GRAVEL - TO STABILIZE SURFACE TO REDUCE POTENTIAL FOR FUGITIVE DUST EMISSIONS.
COMMENT/RECOMMENDATION ON PAVING OR GRAVEL
• PAVING IS A PERMANENT SOLUTION AND CAN BE LIMITED TO TROUBLE SPOTS.
• APPLY GRAVEL ACCORDING TO WSDOT OR COUNTY GUIDELINES AND REGULATIONS.
• GRAVEL WILL REQUIRE SOME MAINTENANCE AND GRAVEL DUST SUPPRESSION.
• REDUCE SPEEDS ON GRAVEL ROADS FOR LESS WEAR AND FUGITIVE DUST GENERATION.
8. PHYSICAL BARRIER - TO SURROUND, COVER, OR STRATEGICALLY PLACE A PHYSICAL BARRIER TO PREVENT EMISSION OF FUGITIVE DUST FROM MATERIAL PILES.
COMMENT/RECOMMENDATIONS ON PHYSICAL BARRIER
• A VARIETY OF METHODS INCLUDE TARPS, HAY/STRAW BALES, WIND FENCING, AND SPECIALTY BARRIERS.
• ENCLOSE PILE WITHIN A STRUCTURE.
• UTILIZE NATURAL TOPOGRAPHICAL OR TREE WIND BREAKS ON UPWIND SIDE.
9. RESTRICT ACCESS - TO PREVENT OTHERWISE UNDISTURBED AREA FROM BECOMING DISTURBED BY "DUNE BUGGIES," DIRT BIKES, FOUR-WHEEL DRIVE VEHICLES AND OTHER OF-ROAD MOTORIZED VEHICLES.
COMMENT/RECOMMENDATIONS ON RESTRICTING ACCESS
• INSTALL CURB BUT NO DRIVEWAY RAMP.
• OTHER METHODS INCLUDE POSTING SIGNS, PHYSICAL BARRIERS SUCH AS FENCES, TAPE AND HAY BALES.
10. VEGETATIVE COVERINGS - USE ESTABLISHED COVER TO TEMPORARILY OR PERMANENTLY STABILIZE SOIL AGAINST WIND EROSION AND EMISSION OF FUGITIVE DUST.
COMMENT/RECOMMENDATIONS ON VEGETATIVE COVERINGS
• EITHER TEMPORARY OR PERMANENT COVER CAN BE ESTABLISHED USING STANDARD AGRICULTURAL METHODS, HYDROSEEDING, OR HAND SEEDING.
• MAINTENANCE OF ORIGINAL VEGETATIVE COVER IS AN OPTION
• PERMANENT RESTORATION THAT APPROXIMATES NATIVE COVER CAN BE ACHIEVED USING LOCALLY RECOMMENDED VARIETIES AND SEEDING RATES AS APPROPRIATE FOR THE SITE.
• THE SOIL MUST BE KEPT MOIST TO ESTABLISH COVER.

INSPECTION SCHEDULE:

- 1. EROSION AND SEDIMENT CONTROL (ESC) FACILITIES SHALL NOT BE ALLOWED TO FALL INTO DISREPAIR. THE PROPONENT OR DESIGNEE SHALL INSPECT FACILITIES DURING AND AFTER RAINFALL EVENTS TO ENSURE PROPER OPERATION. NEEDED REPAIRS SHALL BE MADE WITHIN 24 HOURS OR IMMEDIATELY IF POSSIBLE. INSPECTIONS SHALL BE PERFORMED BY THE PROJECT CESCL. AT MINIMUM SEDIMENT SHOULD BE REMOVED FROM ALL FACILITIES WHEN 6" OF SEDIMENT HAS ACCUMULATED. CATCH BASIN INSERTS AND FILTER FABRIC SHALL BE REPLACED SHOULD THEY BECOME DAMAGED OR ARE NO LONGER FILTERING RUNOFF.
2. IF NECESSARY, THE PROJECT ENGINEER, COUNTY INSPECTOR, OR PROJECT CESCL SHALL INSTRUCT CONTRACTOR TO INSTALL ADDITIONAL FACILITIES AS WARRANTED DURING FILED INSPECTIONS.
3. INSPECTIONS WILL BE PERFORMED AT THE FOLLOWING TIMES. CONTRACTOR SHALL NOTIFY CIOUNTY INSPECTOR AND PROJECT ENGINEER 48 HOURS IN ADVANCE OF THE REQUIRED INSPECTION.
A. AFTER COMPLETION OF STAKING OF LIMITS OF CLEARING AND GRADING.
B. AFTER COMPLETION OF CLEARING AND TESC MEASURES.
C. AFTER COMPLETION OF EARTHWORK.
D. AFTER STORM DRAIN TRENCHING/PIPING IS COMPLETE BUT PRIOR TO BACKFILL. EACH TRENCH SHALL BE INSPECTED PRIOR TO BACKFILL.
E. DURING BACKFILLING OF ALL UTILITIES.
F. AFTER COMPLETION OF STORMWATER CONTROL FACILITIES.
G. FOLLOWING COMPLETION OF ROADWAY SUBGRADING BUT PRIOR TO INSTALLATION OF SURFACING.
H. FOLLOWING INSTALLATION OF GRAVEL BASE AND CURB FORMS.
I. FOLLOWING INSTALLATION OF CRUSHED SURFACING AND CURB POURS.
J. AT BEGINNING OF ROADWAY PAVING.
K. AS NEEDED TO DETERMINE COMPLIANCE WITH APPROVED PLANS AND/OR SPECIFICATIONS
L. FINAL INSPECTION AFTER CONVEYANCE AND STORM SYSTEM ARE CLEANED AND FINAL ROAD SURFACING INSTALLED. DO NOT FLUSH DOWN STORM DRAIN.
PLAN NOTES:
1. THE EXISTING UTILITY LOCATIONS SHOWN ARE TO BE USED AS APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION PRIOR TO CONSTRUCTION. CONTACT THE UTILITIES UNDERGROUND LOCATION CENTER 1-800-425-5555.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE PUBLIC/PRIVATE UTILITIES THAT ARE NOT THE RESPONSIBILITY OF THE UTILITIES UNDERGROUND LOCATION CENTER.
3. CAUTION - EXTREME HAZARD - OVERHEAD ELECTRICAL SERVICE LINES ARE GENERALLY NOT SHOWN ON THE DRAWINGS. ELECTRICAL LINES IF SHOWN ARE LOCATED POINT-TO-POINT, POWER POLE-TO-POWER POLE CONNECTION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF THE HAZARD CREATED BY THE OVERHEAD ELECTRICAL POWER IN ALL AREAS AND SHALL FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY LAW AND REGULATION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE RESPECTIVE UTILITY OWNER(S) AND DETERMINE THE EXTENT OF HAZARD AND REMEDIAL MEASURES AND SHALL TAKE WHATEVER PRECAUTIONS THAT MAY BE REQUIRED.
4. ADJACENT PROPERTY LINES WERE OBTAINED FROM VARIOUS PUBLIC SOURCES AND SHOULD NOT BE RELIED ON AS FORMAL OR LEGAL BOUNDARIES.
5. REMOVE ALL E.S.C. ITEMS AND LEGALLY DISPOSE OF WASTE AND DEBRIS IN APPROVED AND PERMITTED LOCATIONS AFTER THE SITE IS PERMANENTLY STABILIZED AND WITH COUNTY APPROVAL.
6. THE CONTRACTOR AND OWNER SHALL COORDINATE ALL INSPECTIONS. ALL COSTS INCURRED SHALL BE THE CONTRACTOR RESPONSIBILITY.
7. OPERATION OF EQUIPMENT AND ASSOCIATED MATERIALS IN THE CONSTRUCTION OF THE APPROVED PROJECT HAS THE POTENTIAL TO RESULT IN GENERATING DUST. PURSUANT TO COUNTY REGULATIONS, IMPACTS TO NEIGHBORING PROPERTIES SHALL BE CONTROLLED BY FREQUENTLY WATERING THE SITE AS NECESSARY TO PREVENT THE TRAVEL OF DUST. DO NOT SOAK THE SITE.

MATERIAL LIST:

- 1. STORM DRAIN: SEE STORM DRAINAGE
2. FILTER FABRIC: SHALL CONSIST ONLY OF LONG CHAIN POLYMERIC FIBERS OR YARNS FORMED INTO A STABLE NETWORK SUCH THAT THE FIBERS OR YARNS RETAIN THEIR POSITION RELATIVE TO EACH OTHER DURING HANDLING AND PLACEMENT. GEOSYNTHETIC MATERIALS SHALL MEET ALL REQUIREMENTS FOR GEOTEXTILE FOR PERMANENT EROSION CONTROL & DITCH LINING PER SECTION 9-33 IN WSDOT STANDARD SPECIFICATION (2014).
3. WATER: SEE CHELAN PUD STANDARDS.
4. SANITARY SEWER: PRIVATE ON-SITE SEPTIC (SEE ON-SITE SEWAGE SYSTEM SITE EVALUATION & DESIGN BY TOWER DESIGNS, INC APPROVED MARCH 16, 2021 CDHD).

SANITARY/STORM PROFILE NOTES

- 1. PIPE LENGTHS CALLED OUT IN PROFILE VIEWS ARE BASE ON DISTANCES BETWEEN CENTER OF STRUCTURES, PIPE SLOPES WERE CALCULATED USING ACTUAL PIPE LENGTHS (CENTER OF STRUCTURE TO CENTER OF STRUCTURE).

STORM DRAINAGE:

- 1. UNLESS OTHERWISE SHOWN STORM DRAINAGE PIPE (STM) SHALL BE RUBBER GASKETED:
A. PLAIN CONCRETE STORM PIPE PER WSDOT SECTION 9-05.7(1), (CONC)
B. REINFORCED CONCRETE STORM PIPE PER WSDOT SECTION 9-05.7(2), (RCF)
C. GALVANIZED STEEL SPIRAL RIB PIPE PER WSDOT SECTION 9-05.9, WITH TREATMENT 1, (SSR)
D. CORRUGATED HIGH DENSITY POLYETHYLENE PIPE, SMOOTH INTERIOR, PER WSDOT SECTION 9-05.20 (CPEP)
E. DUCTILE IRON PIPE PER WSDOT SECTION 9-30.1, CLASS 350, (DIP)
2. UNLESS NOTED OTHERWISE, PIPE INVERTS, PIPE LENGTHS AND PIPE SLOPES ARE MEASURED AND CALCULATED TO THE CENTER OF MANHOLES AND CATCH BASINS.
3. ALL TYPE 2 CATCH BASINS OVER 4 FEET IN HEIGHT SHALL HAVE STANDARD LADDERS/STAIRS.
4. UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS ARE TO THE CENTER OF CATCH BASIN OR MANHOLE.
5. ROOF DRAIN DOWN SPOUT, YARD DRAIN COLLECTIONS, AND TEMPORARY STORM PIPE SHALL BE:
A. POLYVINYL CHLORIDE PIPE PER WSDOT SECTION 9-05.1(5) AND 9-05.2(6), (P.V.C.)
B. STORM DRAIN PIPE PER NOTE 1.
C. FOOTING DRAINS SHALL BE 4" MIN. DIAMETER
D. ROOF DRAIN SHALL BE 6" MIN. DIAMETER @ 0.50% SLOPE OR AS NOTED ON PLANS. FITTING SHALL MATCH PIPE TYPE.

HYDROSEEDING

- 1. GRASS SEED, OF THE FOLLOWING COMPOSITION, PROPORTION, AND QUALITY OR OTHER ENGINEER APPROVED MIX SHALL BE APPLIED AT THE RATES SHOWN BELOW ON ALL AREAS REQUIRING ROADSIDE SEEDING WITHIN THE PROJECT:
PROPOSED KIND AND VARIETY OF SEED IN MIXTURE BY COMMON NAME AND (BOTANICAL NAME) POUNDS PURE LIVE SEED (PLS) PER ACRE
• BLUEBUNCH WHEATGRASS (PSEUDOROEGNERIA SPICATA) 14
• SHEEP FESCUE (FESTUCA OVINA) 2
• BIG BLUEGRASS (POA AMPLA) 2
TOTAL POUNDS PLS PER ACRE 18
2. SOURCE IDENTIFIED SEED SHALL BE FOURTH GENERATION OR EARLIER. NON-SOURCE IDENTIFIED SEE SHALL MEET OR EXCEED WASHINGTON STATE DEPARTMENT OF AGRICULTURE CERTIFIED SEED STANDARDS AND BE FROM WITHIN THE COLUMBIA BASIN ECO-REGION, AS DEFINED BY THE US ENVIRONMENTAL PROTECTION AGENCY (EPA).
3. SEEDS SHALL BE CERTIFIED "WEED FREE," INDICATING THERE ARE NO NOXIOUS OR NUISANCE WEEDS IN THE SEED.
SEED BED PLANTED SHALL REQUIRE IRRIGATION AND OTHER MAINTENANCE MEASURES AS NECESSARY TO FOSTER AND PROTECT THE ROOT STRUCTURE AND GRASS IS ESTABLISHED WITH OVER 80% COVERAGE.
4. THE SEEDBED SHALL BE FIRM WITH A FAIRLY FINE SURFACE, FOLLOWING SURFACING ROUGHING.
5. A COMMERCIAL FERTILIZER APPLIED AT 250 LBS/ACRE OF THE FOLLOWING FORMATION OR ENGINEER APPROVED EQUAL:
NITROGEN (N) 18%
AVAILABLE PHOSPHORIC ACID 10%
SOLUBLE POTASH 10%
SULPHUR 8%
6. MULCHING SHALL BE LONG TERM MULCH MEETING WSDOT STANDARD SPECIFICATION 9-14.4(2) APPLIED AT 1 TON/ACRE WITH TACKIFIER APPLIED AT 1 TON/ACRE.
• INSTALL EROSION CONTROL BLANKET NETTING TO ANCHOR MULCH MEETING WSDOT STANDARD SPECIFICATION 9-14.5(2) ON ALL SEEDED SLOPES GREATER THAN 3H:1V PER MANUFACTURER RECOMMENDATIONS.
• WATTLES ARE REQUIRED FOR SLOPES 2H:1V OR GREATER WHERE DISTURBED SLOPE LENGTH IS GREATER THAN 10' AS MEASURED PERPENDICULAR TO CONTOURS.

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CHELAN COUNTY
OLDS STATION CAMPUS
WENATCHEE, WASHINGTON 98801
425 OHME GARDEN ROAD

The DOH Associates, PS
ARCHITECTS and PLANNERS
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Telephone (509) 662-4781 Facsimile (509) 663-3253

BID SET: 1/6/2025
Job: 2344 Date: 1/6/2025
DWG ID - 20240220



**INFILTRATION SYSTEM NOTES:**

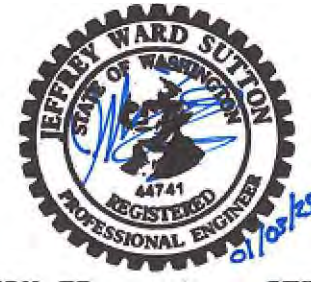
1. DURING CONSTRUCTION AND UNTIL SITE IS COMPLETELY STABILIZED NO RUNOFF SHALL DISCHARGE DIRECTLY INTO THE INFILTRATION SYSTEM.
2. THE PROJECT ENGINEER AND/OR GEOTECHNICAL ENGINEER IS TO INSPECT THE FACILITY BEFORE, DURING AND AFTER CONSTRUCTION TO ENSURE THE FACILITY IS CONSTRUCTED CORRECTLY, THAT THE INFILTRATION SURFACE IS NOT COMPACTED AND THE SYSTEM IS PROTECTED FROM SEDIMENTATION. CONTRACTOR SHALL COORDINATE.
3. BOTTOMS OF INFILTRATION AREAS SHALL NOT BECOME COMPACTED. LIMIT CONSTRUCTION VEHICLE ACCESS AT ALL TIMES.
4. AFTER INSTALLATION, DELINEATE THE IMMEDIATE AREA WITH PROTECTIVE FENCING TO PREVENT VEHICLES/TRAFFIC FROM TRAVERSING THE INFILTRATION AREAS. PROTECT AT ALL TIMES.

**ECOLOGY CONSTRUCTION SWPPP CONTRACTOR REQUIREMENTS FOR CENTRAL BASIN:**

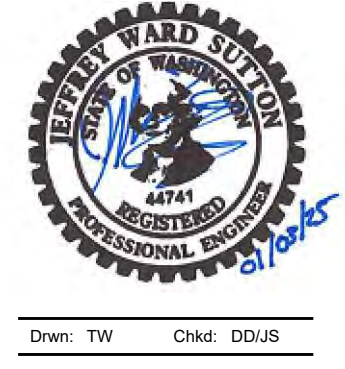
1. CLEARING, GRADING AND/OR EXCAVATION THAT RESULTS IN THE DISTURBANCE OF ONE OR MORE ACRES (INCLUDING OFF-SITE DISTURBANCE ACREAGE) AND DISCHARGES STORMWATER TO SURFACE WATERS OF THE STATE MUST SEEK ECOLOGY SWPPP CONSTRUCTION STORMWATER GENERAL PERMIT (CSWGP) THAT COVERS ALL AREAS OF WASHINGTON STATE.
2. CONSTRUCTION ACTIVITIES ARE NOT REQUIRED TO SEEK COVERAGE UNDER THIS CSWGP CONSTRUCTION ACTIVITIES THAT DISCHARGE ALL STORMWATER AND NON-STORMWATER TO GROUND WATER, SANITARY SEWER, OR COMBINED SEWER, AND HAVE NO POINT SOURCE DISCHARGE TO EITHER SURFACE WATER OR A STORM SEWER SYSTEM THAT DRAINS TO SURFACE WATERS OF THE STATE
3. CONSTRUCTION SITE OPERATORS THAT DISCHARGE STORMWATER TO SURFACE WATER OR A STORM SEWER SYSTEM THAT DRAINS TO SURFACE WATERS OF THE STATE MAY QUALIFY FOR AN EROSION WAIVER FROM THE CSWGP IF THE FOLLOWING CONDITIONS ARE MET:
  - a. THE SITE WILL RESULT IN THE DISTURBANCE OF FEWER THAN 5 ACRES AND THE SITE IS NOT A PORTION OF A COMMON PLAN OF DEVELOPMENT OR SALE THAT WILL DISTURB 5 ACRES OR GREATER.
  - b. THE PROJECT'S RAINFALL EROSION FACTOR ("R" FACTOR) MUST BE LESS THAN 5 DURING THE PERIOD OF CONSTRUCTION ACTIVITY, AS CALCULATED (SEE THE CSWGP HOME PAGE [HTTPS://WWW.EPA.GOV/NPDES/RAINFALL-EROSIVITY-FACTOR-CALCULATOR-SMALL-CONSTRUCTION-SITES#GETTOOL](https://www.epa.gov/npdes/rainfall-erosivity-factor-calculator-small-construction-sites#GETTOOL). THE PERIOD OF CONSTRUCTION ACTIVITY STARTS WHEN THE LAND IS FIRST DISTURBED AND ENDS WITH FINAL STABILIZATION. FOR A LINK TO THE EPA'S CALCULATOR AND STEP BY STEP INSTRUCTIONS ON COMPUTING THE "R" FACTOR IN THE EPA EROSION WAIVER FACT SHEET AT [HTTPS://WWW.EPA.GOV/SITES/PRODUCTION/FILES/2015-10/DOCUMENTS/FACT3-1.PDF](https://www.epa.gov/sites/production/files/2015-10/documents/fact3-1.pdf)
  - c. FOR SITES WITHIN THE CENTRAL BASIN: NO TIMEFRAME FOR CONSTRUCTION ACTIVITY RESTRICTIONS APPLY. THE CENTRAL BASIN IS DEFINED AS THE PORTIONS OF EASTERN WASHINGTON WITH MEAN ANNUAL PRECIPITATION OF LESS THAN 12 INCHES. FOR A MAP OF THE CENTRAL BASIN (AVERAGE ANNUAL PRECIPITATION REGION 2), REFER TO [HTTP://WWW.ECY.WA.GOV/PROGRAMS/WQ/STORMWATER/CONSTRUCTIONEROSIVITYMAP.PDF](http://www.ecy.wa.gov/programs/wq/stormwater/constructionerosivitymap.pdf)
4. CONSTRUCTION SITE OPERATORS MUST SUBMIT A COMPLETE EROSION WAIVER CERTIFICATION FORM AT LEAST ONE WEEK BEFORE DISTURBING THE LAND. CERTIFICATION MUST INCLUDE:
  - a. STATEMENTS THAT THE OPERATOR WILL COMPLY WITH APPLICABLE LOCAL STORMWATER REQUIREMENTS AND IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL BMPs TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS. [HTTPS://FORTRESS.WA.GOV/ECY/PUBLICATIONS/DOCUMENTS/ECY070202.PDF](https://fortress.wa.gov/ecy/publications/documents/ecy070202.pdf)
5. THE EROSION WAIVER DOES NOT APPLY TO CONSTRUCTION ACTIVITIES WHICH INCLUDE NONSTORMWATER DISCHARGES LISTED IN SPECIAL CONDITION S1.C.3. SITES WITH NON-STORMWATER DISCHARGES, SOME EXAMPLES OF NON-STORMWATER DISCHARGES INCLUDE EXCAVATION DEWATERING, WASH WATERS, IRRIGATION WATER, AND HYDROSTATIC TEST WATERS. YOU MUST GET NPDES PERMIT COVERAGE FOR NON-STORM WATER DISCHARGES.
6. THESE NOTES ARE OF A GENERAL BASES, AND ECOLOGY SHOULD BE CONSULTED REGARDING THERE FULL CONSTRUCTION SWPPP COVERAGE REQUIREMENTS.

**STANDARD ESC/SWPPP NOTES:**

1. APPROVAL OF THIS EROSION AND 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, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, FLOW CONTROL BMP LOCATIONS (EXISTING AND PROPOSED), AND ADJACENT PROPERTIES IS MINIMIZED.
6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY THE PROJECT ENGINEER OR CITY INSPECTOR.
7. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
8. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR FIFTEEN CONSECUTIVE DAYS DURING THE WET SEASON (OCTOBER 1 TO JUNE 30) OR THIRTY DAYS DURING THE DRY SEASON (JULY 1 TO SEPTEMBER 30) SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
9. ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.
11. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. 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.
12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY. FLOW CONTROL BMP AREAS (EXISTING OR PROPOSED) SHALL NOT BE USED AS TEMPORARY FACILITIES AND SHALL BE PROTECTED FROM SEDIMENTATION AND INTRUSION.
13. COVER MEASURES WILL BE APPLIED IN CONFORMANCE PROJECT DOCUMENTS AND PROJECT CESL, ENGINEER OR CITY INSPECTOR REQUIREMENTS.
14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE PROJECT ENGINEER AND CITY INSPECTOR.
15. ALL POLLUTANTS, INCLUDING WASTE MATERIALS, THAT OCCUR ONSITE SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.
16. COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND NON-INERT WASTES PRESENT ON THE SITE (SEE CHAPTER 173-304 WAC FOR THE DEFINITION OF INERT WASTE). ONSITE FUELING TANKS SHALL INCLUDE SECONDARY CONTAINMENT.
17. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. EMERGENCY REPAIRS MAY BE PERFORMED ONSITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.
18. APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, SHALL BE CONDUCTED IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICAL TO STORMWATER RUNOFF. MANUFACTURERS' RECOMMENDATIONS FOR APPLICATION RATES AND PROCEDURES SHALL BE FOLLOWED.
19. MEASURES SHALL BE USED TO PREVENT OR TREAT CONTAMINATION OF STORMWATER RUNOFF BY PH MODIFYING SOURCES. THESE SOURCES INCLUDE, BUT ARE NOT LIMITED TO, BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS. STORMWATER DISCHARGES SHALL NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE WATER QUALITY STANDARD FOR PH IN THE RECEIVING WATER.







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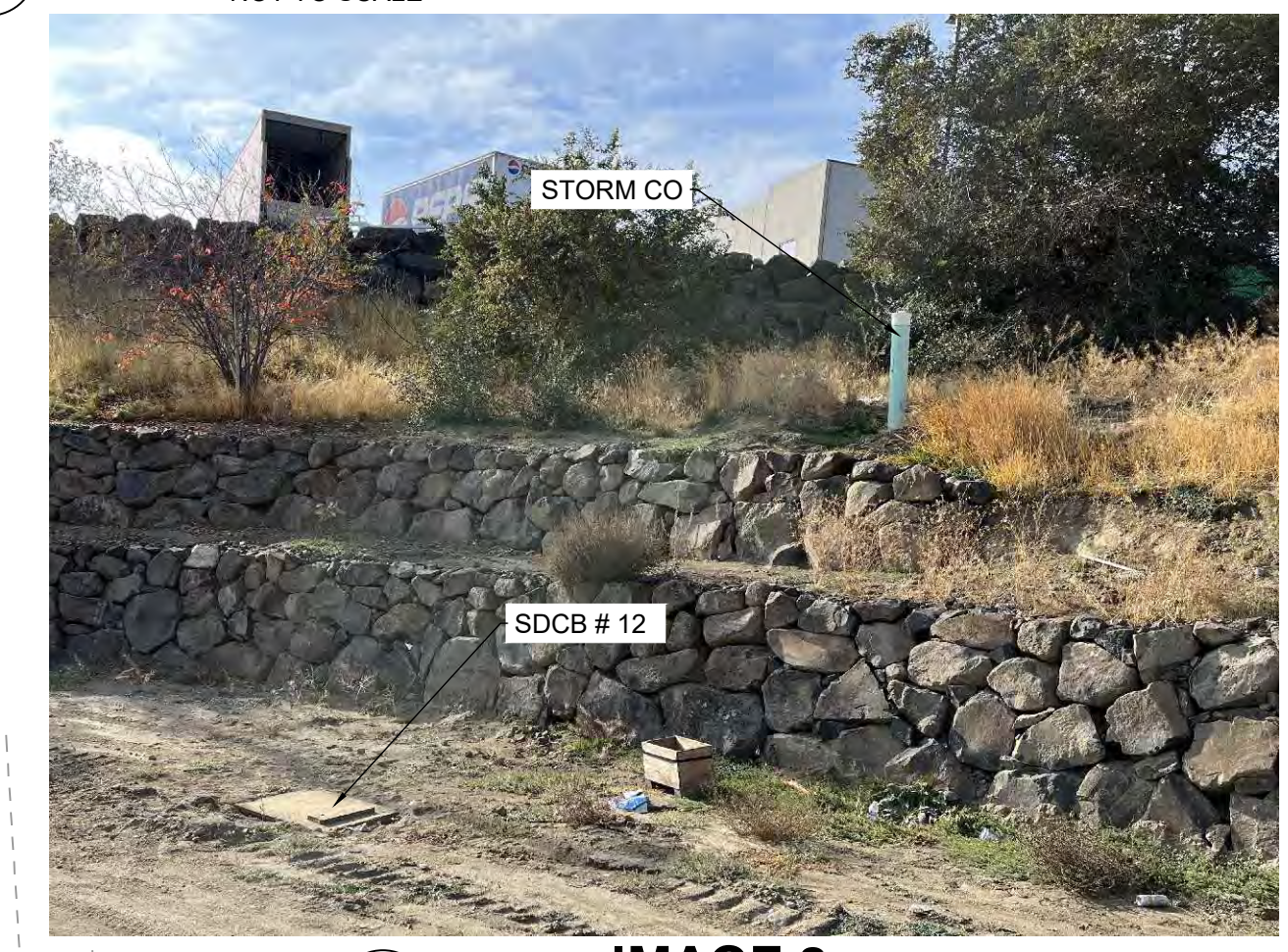
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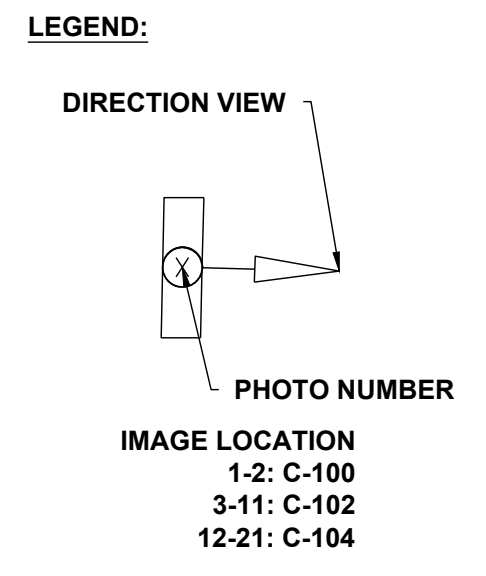
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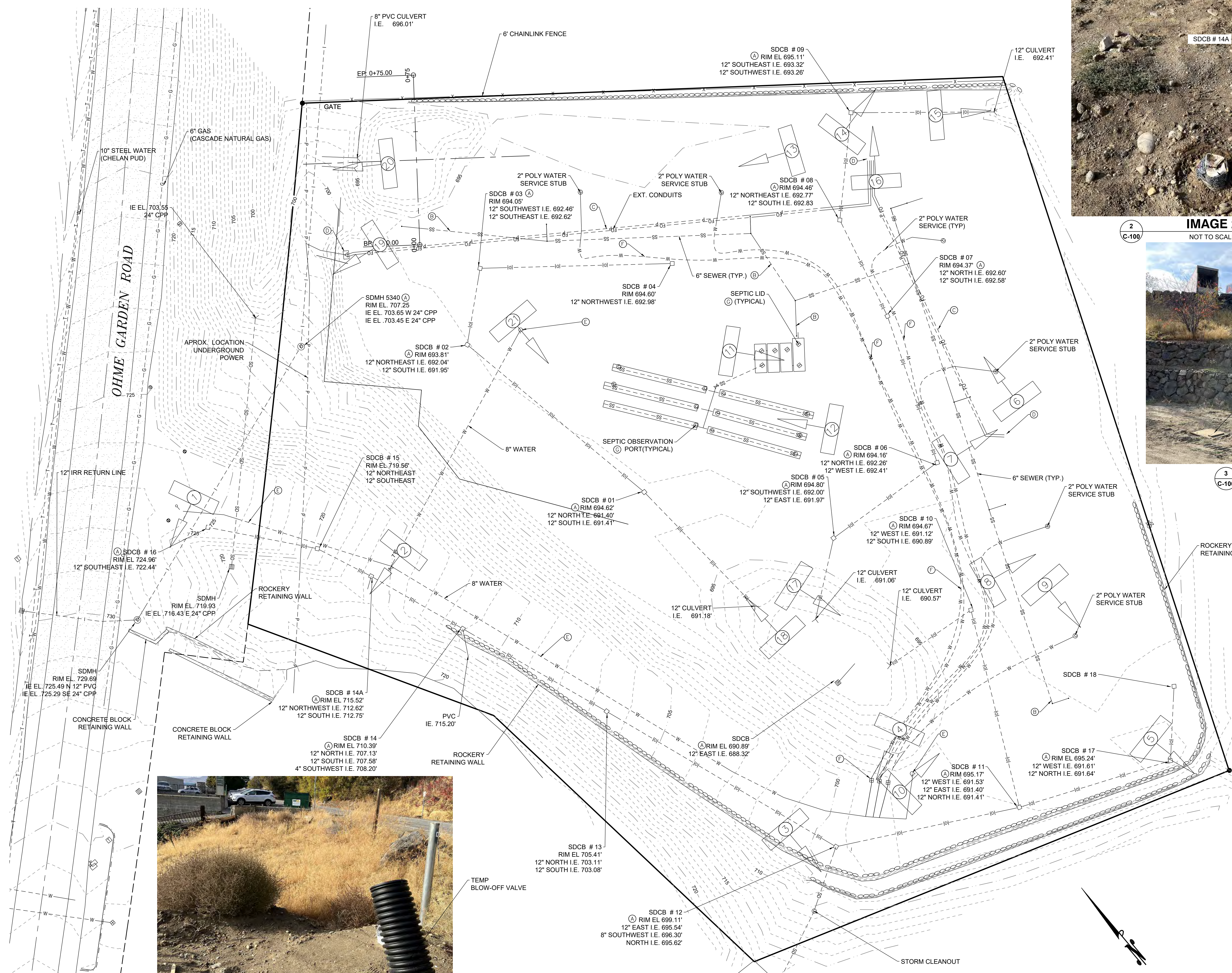
**IMAGE 2**  
 NOT TO SCALE



**IMAGE 3**  
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- CONSTRUCTION NOTES:**
- CATCH BASIN RIM SHOW ARE TOP OF STRUCTURE AS SHOWN AND HAVE NOT BEEN RAISED TO FINAL GRADES. SEE STORM PLAN FOR FINAL GRADES.
  - SIDE SEWER SHOWN ARE BASED ON DESIGN LOCATIONS. CONTRACTOR SHALL POTHOLE AND VERIFY ALL CONNECTION POINTS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. SEE SEWER PLAN FOR DESIGN INFORMATION.
  - POWER AND FIBER CONDUITS SHOWN BASED PRIVATE LOCATES. CONDUIT ARE EMPTY (NO WIRE) AND ARE NOT ENERGIZED. SEE ELECTRICAL SITE PLAN FOR MORE DETAILS.
  - TRANSFORMER AND FIBER HANDLES AS SHOWN AND ARE NOT ENERGIZED. SEE ELECTRICAL SITE PLAN FOR MORE DETAILS.
  - WATER LINE AND FIRE HYDRANTS INSTALLED. TESTING PER PUD STANDARD STILL REQUIRED. CONTRACTOR TO COORDINATE TESTING WITH PUD. SEE PUD STANDARD FOR DETAILS.
  - WATER METER VAULT AND SERVICE LINES INSTALLED AS SHOWN. NO METERS INSTALLED. CONTRACTOR TO COORDINATE WITH PUD FOR METERS AND TESTING.
  - SEPTIC SYSTEM SHOWN BASED ON APPROVED DESIGN BY TOWER DESIGNS, INC BY CDHD. FINAL TESTING STILL REQUIRED BY CONTRACTOR. CONTRACTOR TO COORDINATE TESTS REQUIRED BY PERMIT ISSUED BY CDHD.
  - INITIAL GRADING AND UTILITY WORK WAS PREVIOUSLY COMPLETED BY OTHERS. UNDERGROUND UTILITIES SHOWN REFLECT BASED AVAILABLE DATA. CONTRACTOR SHALL VERIFY ALL CONNECTIONS/TIE LOCATIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.



**EXISTING CONDITIONS**  
 SCALE: 1" = 30'



**IMAGE 1**  
 NOT TO SCALE

1  
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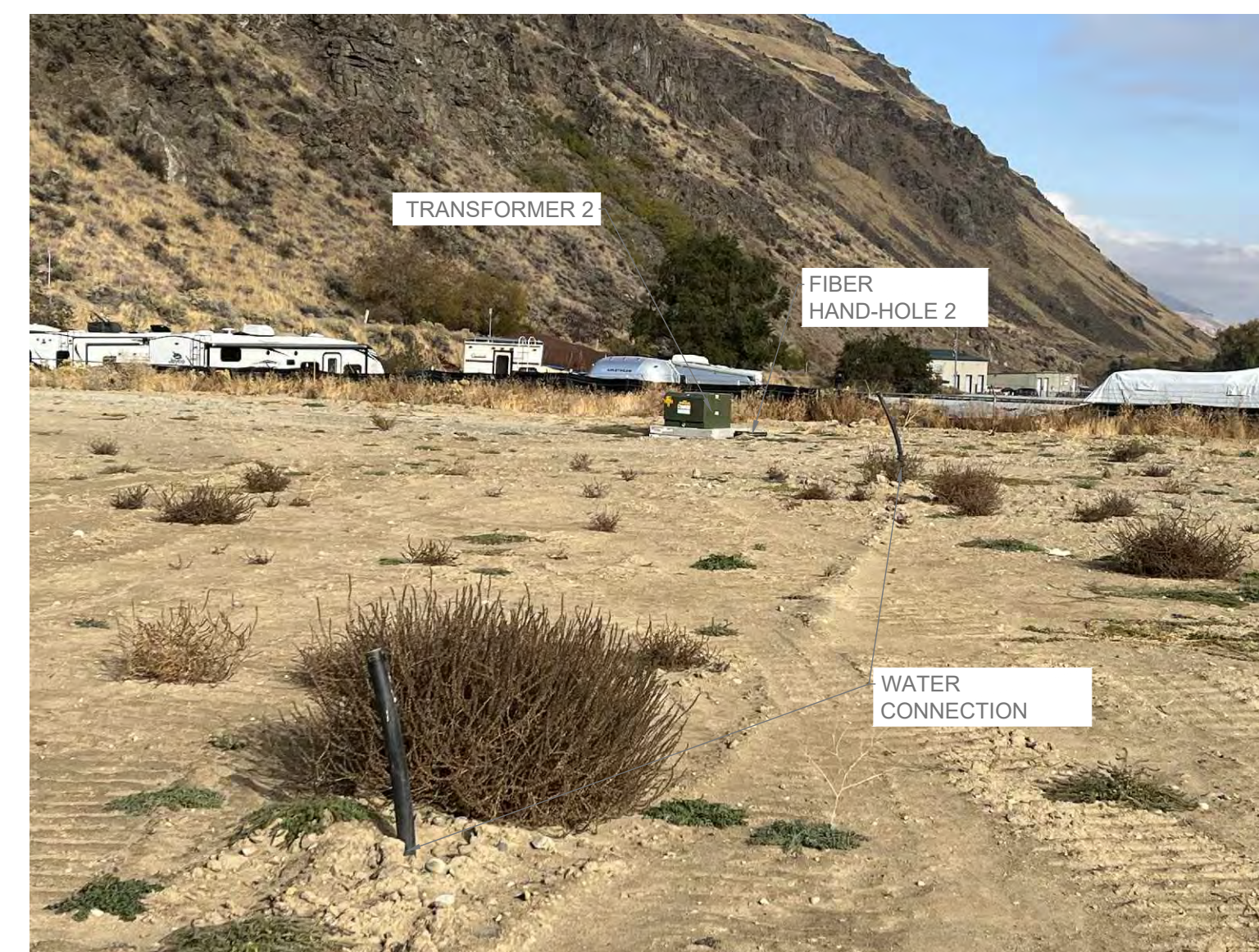




4 IMAGE 4  
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5 IMAGE 5  
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6 IMAGE 6  
C-100 NOT TO SCALE



7 IMAGE 7  
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8 IMAGE 8  
C-100 NOT TO SCALE



9 IMAGE 9  
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10 F.H. ASSEMBLY 2  
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11 IMAGE 11  
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12 IMAGE 12  
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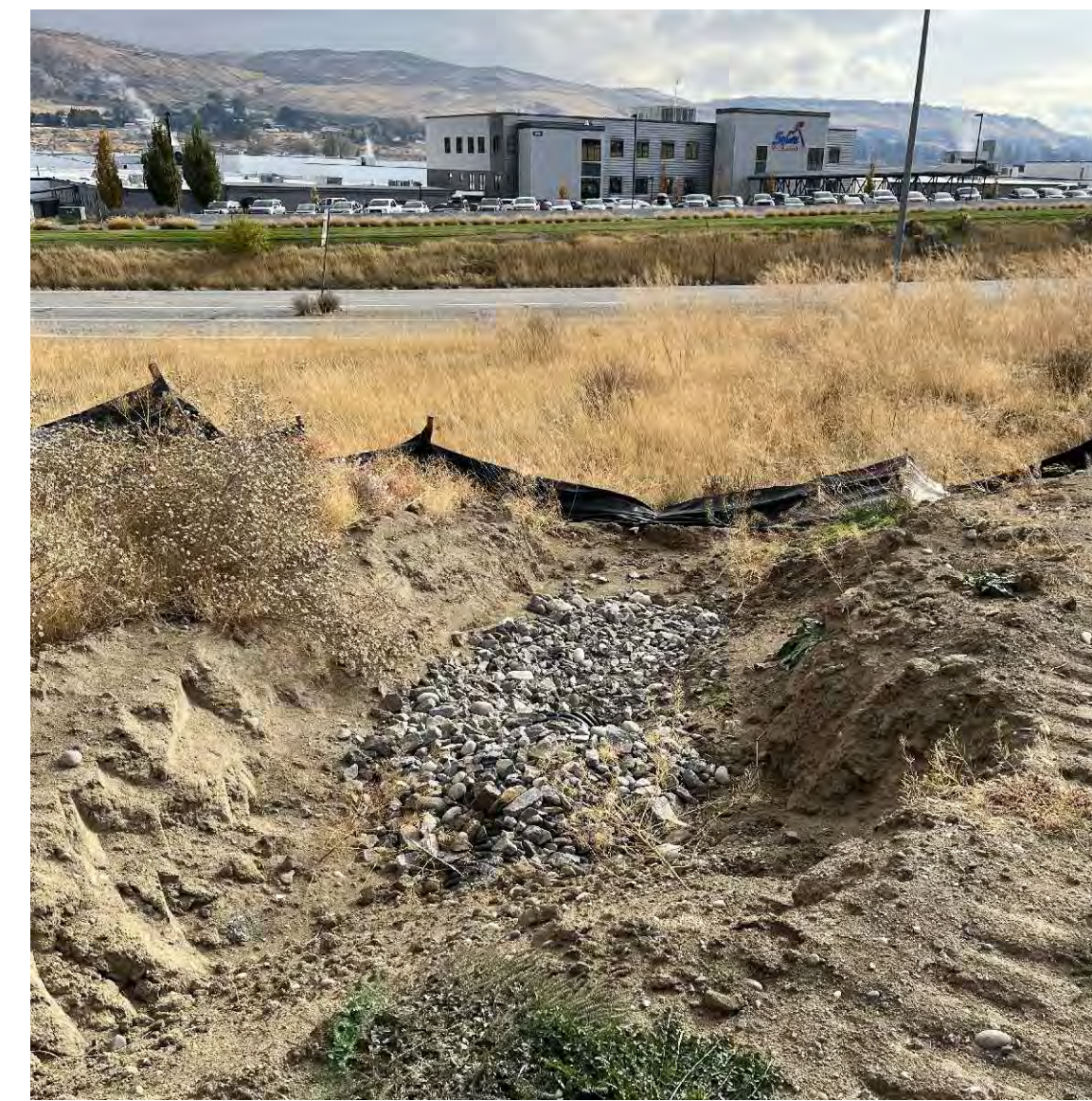
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**IMAGE 13**  
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14  
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15  
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**OVERFLOW OUTLET**  
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16  
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**IMAGE 16**  
NOT TO SCALE



17  
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**IMAGE 17**  
NOT TO SCALE



18  
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**PND INLET 1**  
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19  
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**IMAGE 19**  
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20  
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**IMAGE 20**  
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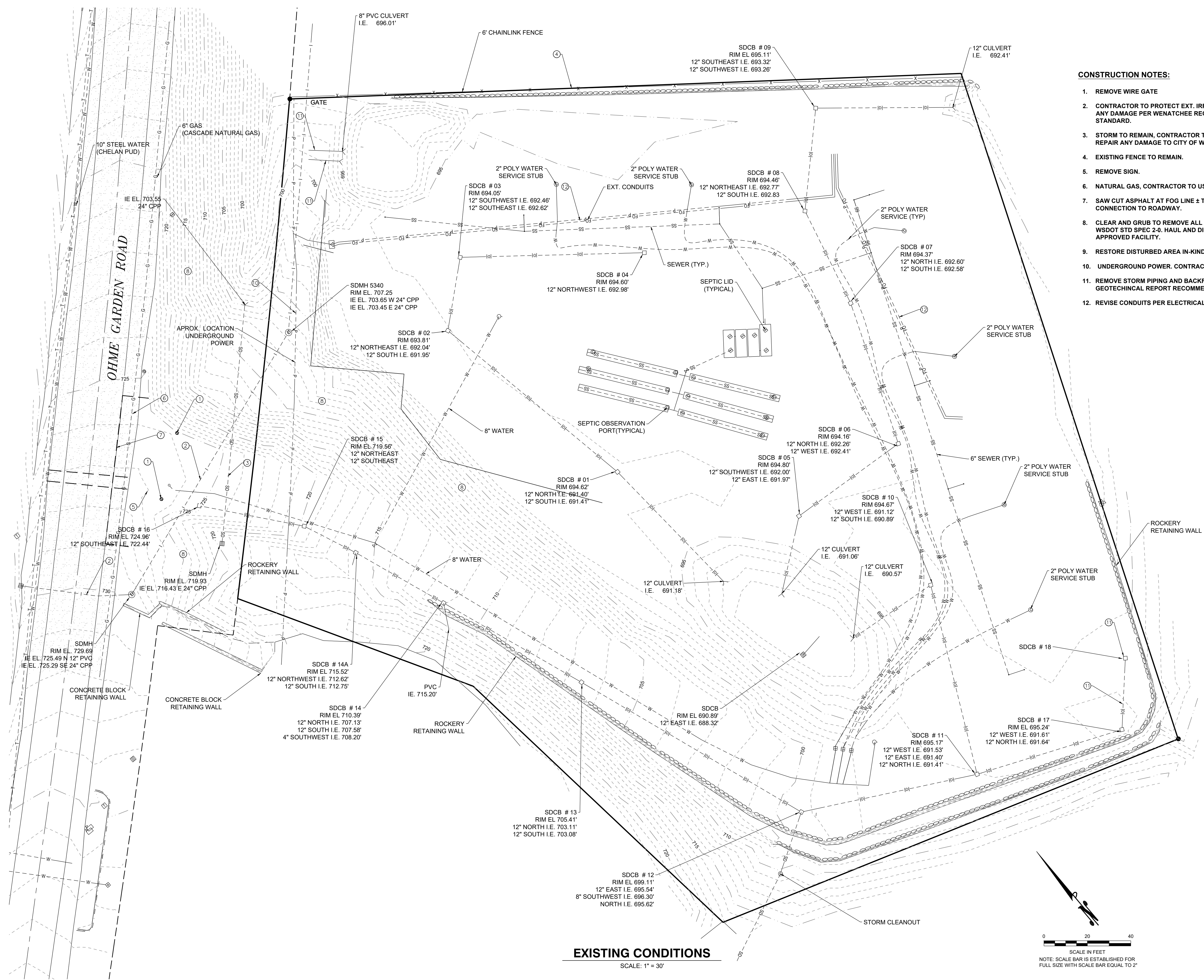
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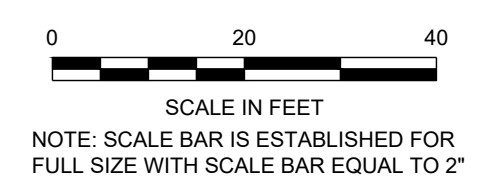
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**EXISTING CONDITIONS**  
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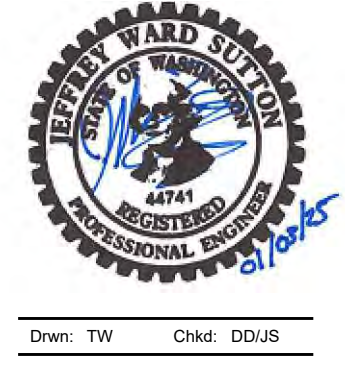


**CONSTRUCTION NOTES:**

1. REMOVE WIRE GATE
2. CONTRACTOR TO PROTECT EXT. IRRIGATION LINE AND REPAIR ANY DAMAGE PER WENATCHEE RECLAMATION DISTRICT STANDARD.
3. STORM TO REMAIN, CONTRACTOR TO PROTECT IN-PLACE AND REPAIR ANY DAMAGE TO CITY OF WENATCHEE STANDARDS.
4. EXISTING FENCE TO REMAIN.
5. REMOVE SIGN.
6. NATURAL GAS, CONTRACTOR TO USE EXTREME CARE.
7. SAW CUT ASPHALT AT FOG LINE ± TO PROVIDE SMOOTH CONNECTION TO ROADWAY.
8. CLEAR AND GRUB TO REMOVE ALL ORGANIC MATERIAL PER WSDOT STD SPEC 2-0. HAUL AND DISPOSE OF MATERIAL AT AN APPROVED FACILITY.
9. RESTORE DISTURBED AREA IN-KIND SEE LANDSCAPE PLAN.
10. UNDERGROUND POWER. CONTRACTOR USE CARE IN THIS AREA.
11. REMOVE STORM PIPING AND BACKFILL VOIDS PER GEOTECHNICAL REPORT RECOMMENDATION.
12. REVISE CONDUITS PER ELECTRICAL PLAN.



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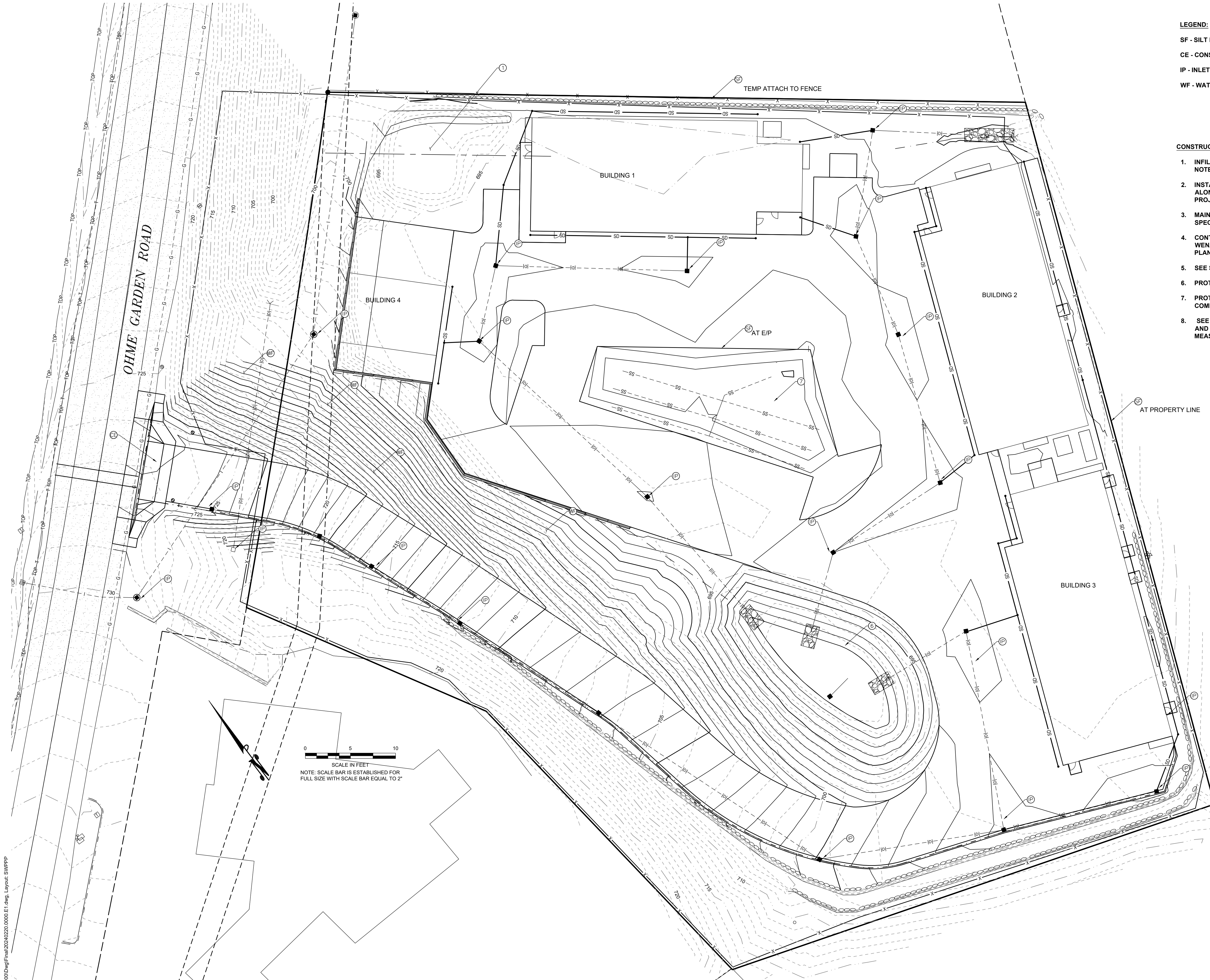
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- LEGEND:**
- SF - SILT FENCE PER
  - CE - CONSTRUCTION ENTRANCE PER
  - IP - INLET PROTECTION PER
  - WF - WATTLES

**CONSTRUCTION NOTES:**

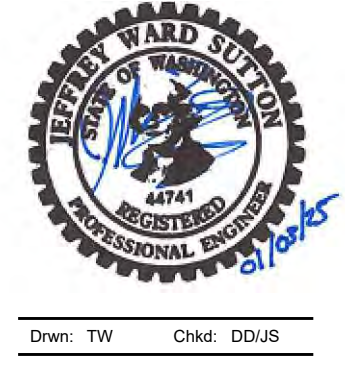
1. INFILTRATION FACILITY SEE INFILTRATION SYSTEM NOTES ON C-002.
2. INSTALL INLET PROTECTION ON ALL CATCH-BASIN ALONG ALL HAUL ROUTS THAT ARE WITHIN 200' OF PROJECT SITE.
3. MAINTAIN TESC/SWPPP MEASURES PER WSDOT STD SPEC 8-01
4. CONTRACTOR SHALL SUBMIT TO CITY OF WENATCHEE A FUGITIVE DUST CONTROL AND SWPP PLANS.
5. SEE SWPPP NOTES ON C-030
6. PROTECT INFILTRATION AREA SEE NOTES ON C-030.
7. PROTECT SEPTIC SYSTEM AND DRAINFIELD FROM COMPACTION AND CONSTRUCTION ACTIVITIES.
8. SEE PROJECT SPECIFICATION TEMPORARY EROSION AND SEDIMENT CONTROL FOR ADDITIONAL MEASURES AND REQUIREMENTS.

**CITY OF WENATCHEE SWPPP NOTES:**

1. THE SWPPP SHALL INCLUDE THE STATEMENT "THAT ANY LAND CLEARING, CONSTRUCTION, OR DEVELOPMENT INVOLVING THE MOVEMENT OF EARTH SHALL BE IN ACCORDANCE WITH THE SWPPP. AS REQUIRED THE PLAN SHALL NOTE THAT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) BE ON SITE OR ON CALL ON ALL DAYS WHEN CONSTRUCTION OR GRADING ACTIVITY TAKES PLACE.
2. THE CONTRACTOR SHALL COMPLY WITH THE PROJECT SPECIFIC SWPPP AND FIELD DIRECTION FROM THE DESIGNATED CESCL.
3. THE PROJECT AS APPLIED FOR AN EROSIONITY WAIVER PER ECOLOGY CONSTRUCTION STORMWATER GENERAL PERMIT AS OUTLINED IN SPECIAL CONIDATION S1.F.
4. CONTRACTOR SHALL UPDATE WAIER OR APPLY FOR COVERAGE IF CONSTRUCTION WINDOW EXTENDS BEYOND PERMITTED WINDOW (SEE NOTES C-030 **ECOLOGY CONSTRUCTION SWPPP CONTRACTOR REQUIREMENTS FOR CENTRAL BASIN**)
5. THIS PROJECT PROPOSES TO UTILIZE THE WASHINGTON DEPARTMENT OF ECOLOGY (WSDOE) EROSIONITY WAIVER IN LIEU OF PREPARING A PROJECT SPECIFIC STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE PROJECT SCHEDULE DETERMINES THE EROSIONITY FACTOR AS FOUND AT THIS LINK: [HTTPS://LEW.EPA.GOV/](https://lew.epa.gov/). THE COUNTY REQUIRES A COPY OF THE SIGNED WSDOE EROSIONITY WAIVER CERTIFICATION FORM (THAT IS REQUIRED TO BE SUBMITTED TO WSDOE) PRIOR TO DEMOLITION AND CONSTRUCTION. THIS SHALL BE PROVIDED TO THE COUNTY WITH CONFIRMATION OF SUBMITTAL TO WSDOE PRIOR TO SCHEDULING A PRECONSTRUCTION MEETING AND/OR INITIAL INSPECTION. THE CERTIFICATION FORM CAN BE FOUND ONLINE AT THIS ADDRESS: [HTTPS://APSS.ECOLOGY.WA.GOV/PUBLICATIONS/DOCUMENTS/ECY070202.PDF](https://apss.ecology.wa.gov/publications/documents/ecy070202.pdf).
6. CONTRACTOR SHALL PROVIDE BMPS AS REQUIRED UNTIL FINAL STORMWATER FACILITIES ARE INSTALLED AND OPERATIONAL SUCH THAT STORMWATER IS RETAINED ONSITE PER CITY OF WENATCHEE CODE.



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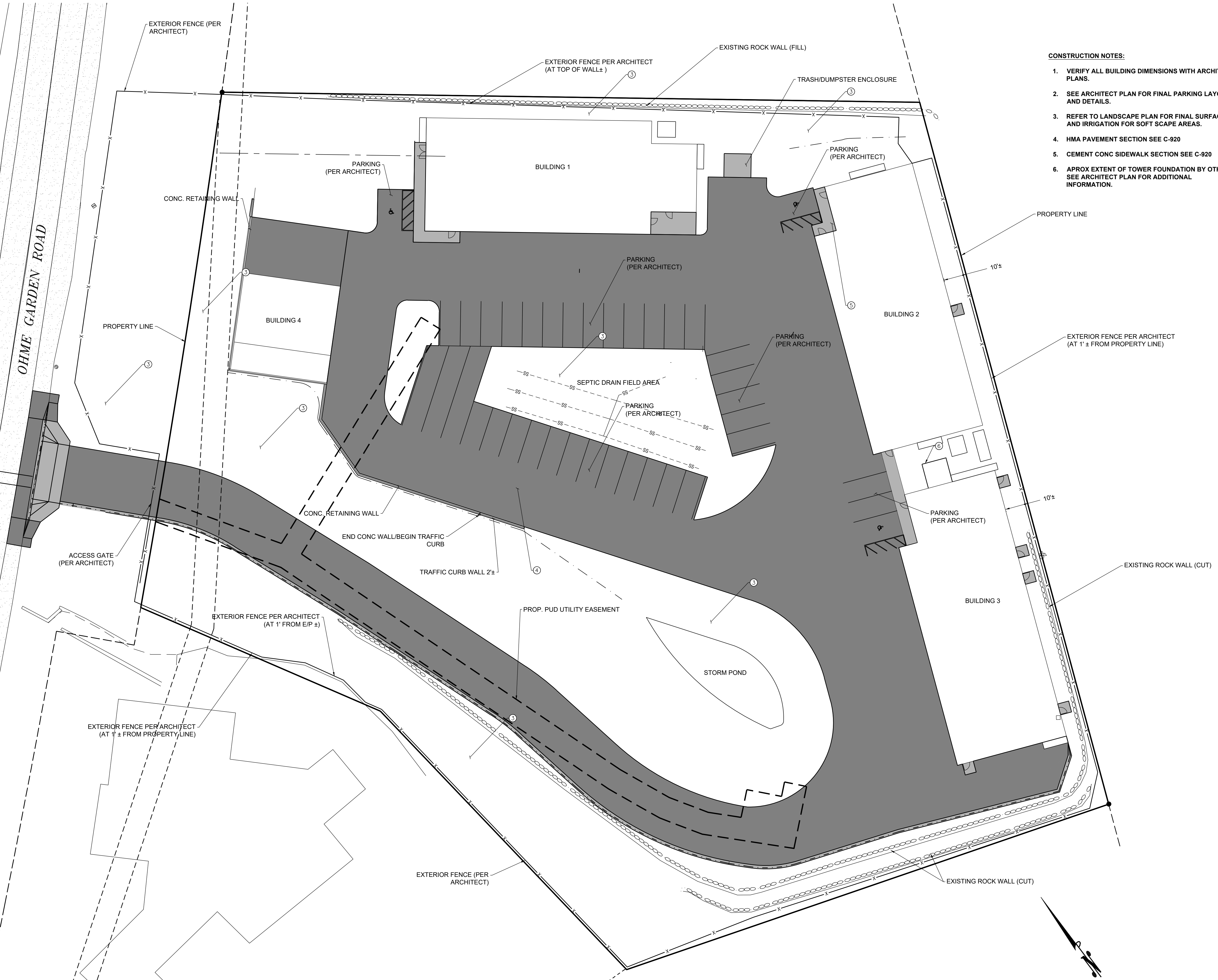
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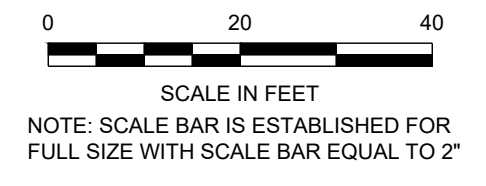


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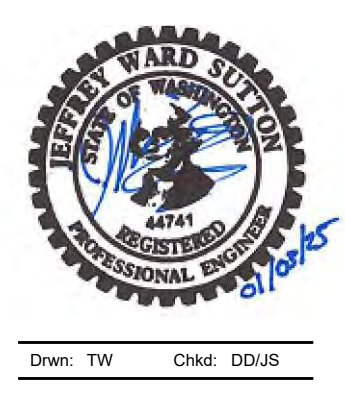


- CONSTRUCTION NOTES:**
1. VERIFY ALL BUILDING DIMENSIONS WITH ARCHITECT PLANS.
  2. SEE ARCHITECT PLAN FOR FINAL PARKING LAYOUT AND DETAILS.
  3. REFER TO LANDSCAPE PLAN FOR FINAL SURFACING AND IRRIGATION FOR SOFT SCAPE AREAS.
  4. HMA PAVEMENT SECTION SEE C-920
  5. CEMENT CONC SIDEWALK SECTION SEE C-920
  6. APROX EXTENT OF TOWER FOUNDATION BY OTHERS SEE ARCHITECT PLAN FOR ADDITIONAL INFORMATION.

**SITE PLAN**  
 1:20



250 Simon Street SE  
 East Wenatchee, WA 98802  
 Phone: 509.884.0564  
 Fax: 509.884.0814  
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**CHELSEAN COUNTY**  
**OLDS STATION CAMPUS**  
 425 OHME GARDEN ROAD  
 WENATCHEE, WASHINGTON 98801

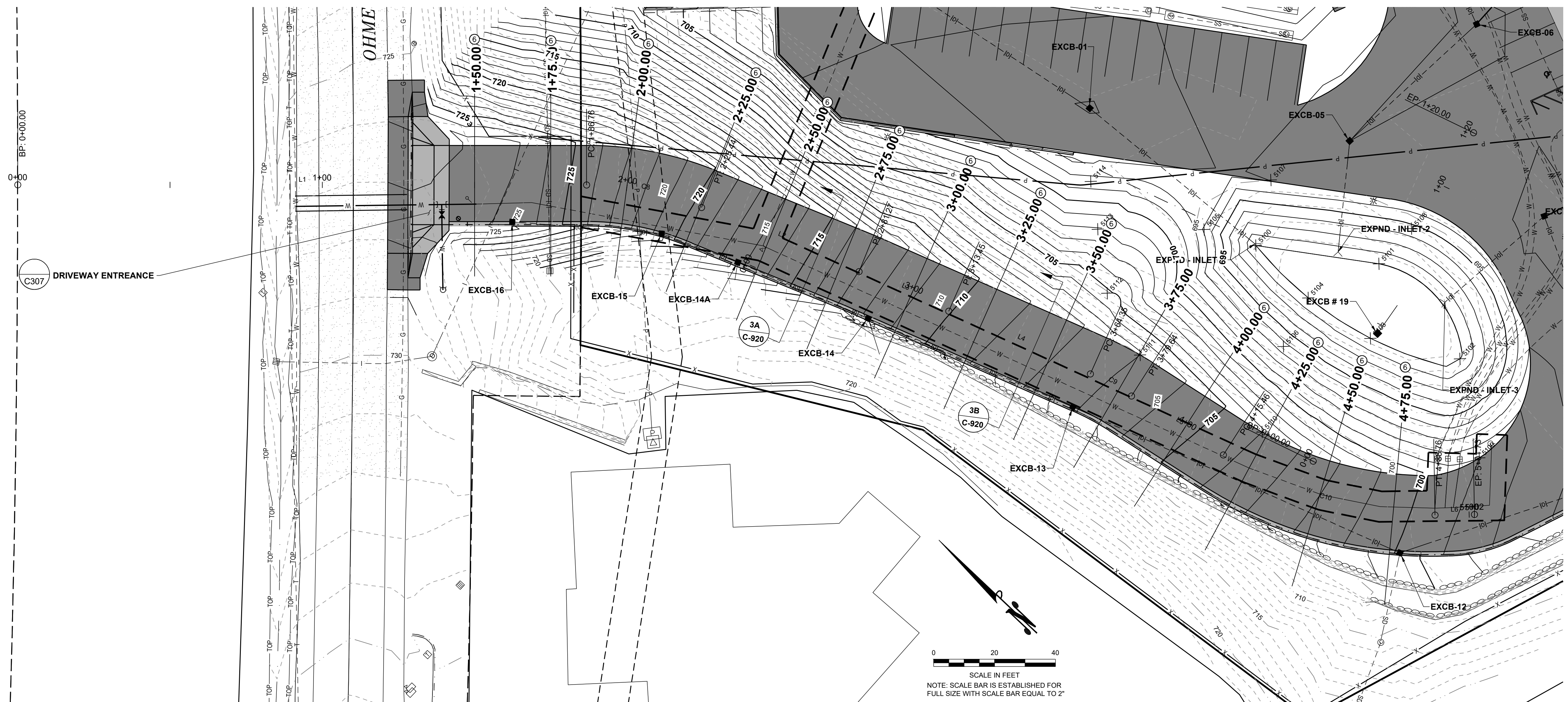
**The DOH Associates, PS**  
**ARCHITECTS and PLANNERS**  
 7 N Wenatchee Ave Suite 500, Wenatchee, Washington 98801  
 Telephone (509) 662-4781 Facsimile (509) 663-3253

BID SET: 1/6/2025  
 Job: 2344 Date: 1/6/2025  
 DWG ID -







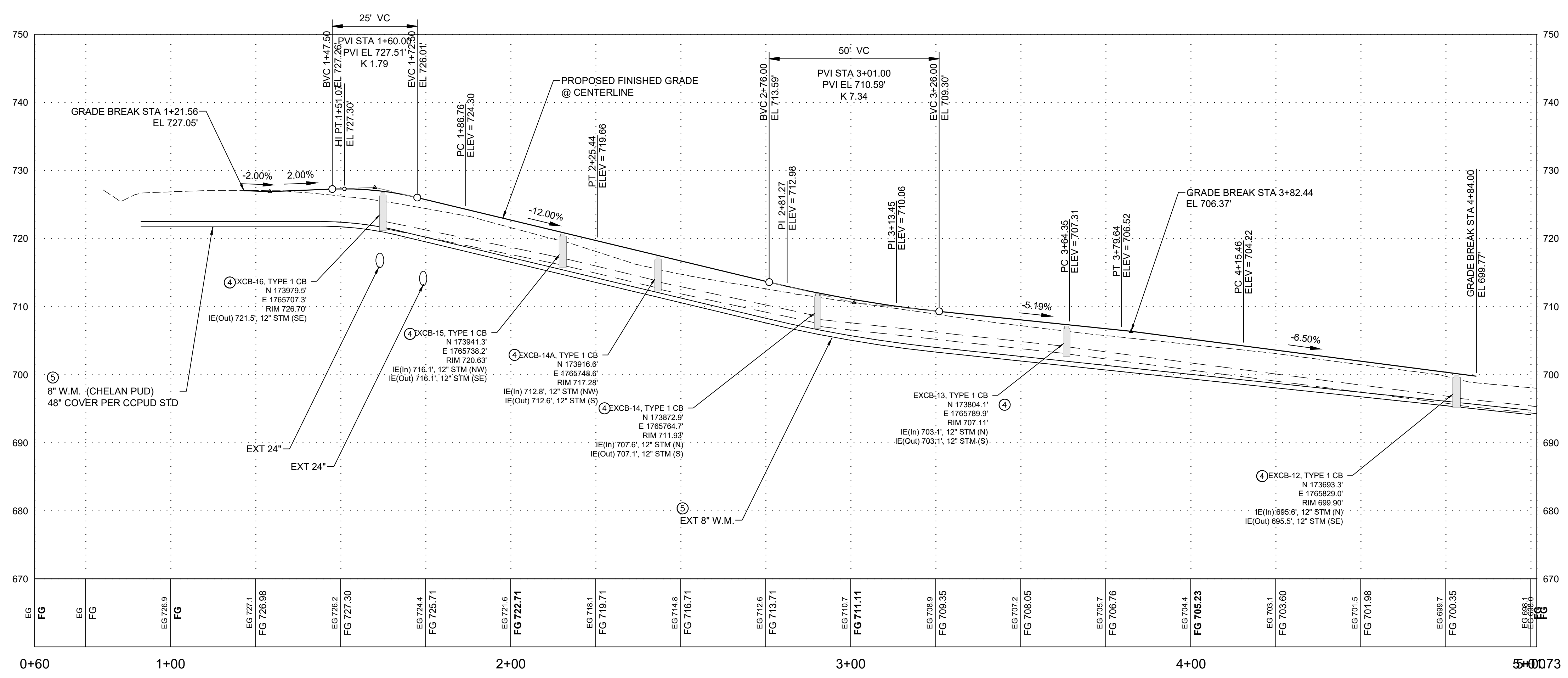


**DRIVEWAY PLAN**  
SCALE 1" = 20'

**CONSTRUCTION NOTES:**

1. VERIFY ALL BUILDING DIMENSIONS WITH ARCHITECT PLANS.
2. GRADES SHOWN UNLESS NOTED OTHERWISE ARE TO TOP OF FINAL SURFACE. CONTRACTOR TO REFER TO DESIGN SECTION (IE PAVEMENT, BUILDING) FOR TOP OF SUBGRADE ELEVATIONS.
3. ALL GRADING SHALL BE IN GENERAL COMPLIANCE WITH PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT BY NELSON GEOTECHNICAL AND ASSOCIATES.
4. SEE C - 380 FOR STORM SYSTEM/DESIGN
5. SEE C-610 FOR WATER LINE/DESIGN
6. SEE C-307 FOR CROSS-SECTIONS

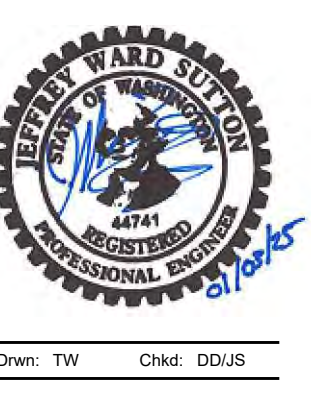
RDA-1-NEW					
Number	Radius	Length	Line/Chord Direction	NORTHING/EASTING	STATION
L1		186.76	S43° 29' 15.97"E	N:174105.634 E:1765604.312	0+00
C8	100.00	38.68	S32° 24' 21.89"E	N:173970.136 E:1765732.840	1+86.76
L2		55.83	S21° 19' 27.81"E	N:173937.681 E:1765753.442	2+25.44
L3		32.16	S19° 45' 01.25"E	N:173885.677 E:1765773.743	2+81.27
L4		50.90	S19° 35' 39.25"E	N:173855.387 E:1765784.618	3+13.45
C9	100.00	15.29	S15° 12' 49.09"E	N:173807.437 E:1765801.687	3+64.35
L5		35.82	S10° 49' 58.92"E	N:173792.696 E:1765805.696	3+79.64
C10	125.00	73.30	S27° 37' 51.71"E	N:173757.513 E:1765812.428	4+15.46
L6		12.98	S44° 25' 44.50"E	N:173693.503 E:1765845.936	4+88.76



**DRIVEWAY PROFILE**  
SCALE H: 1" = 20' / V: 1" = 10'

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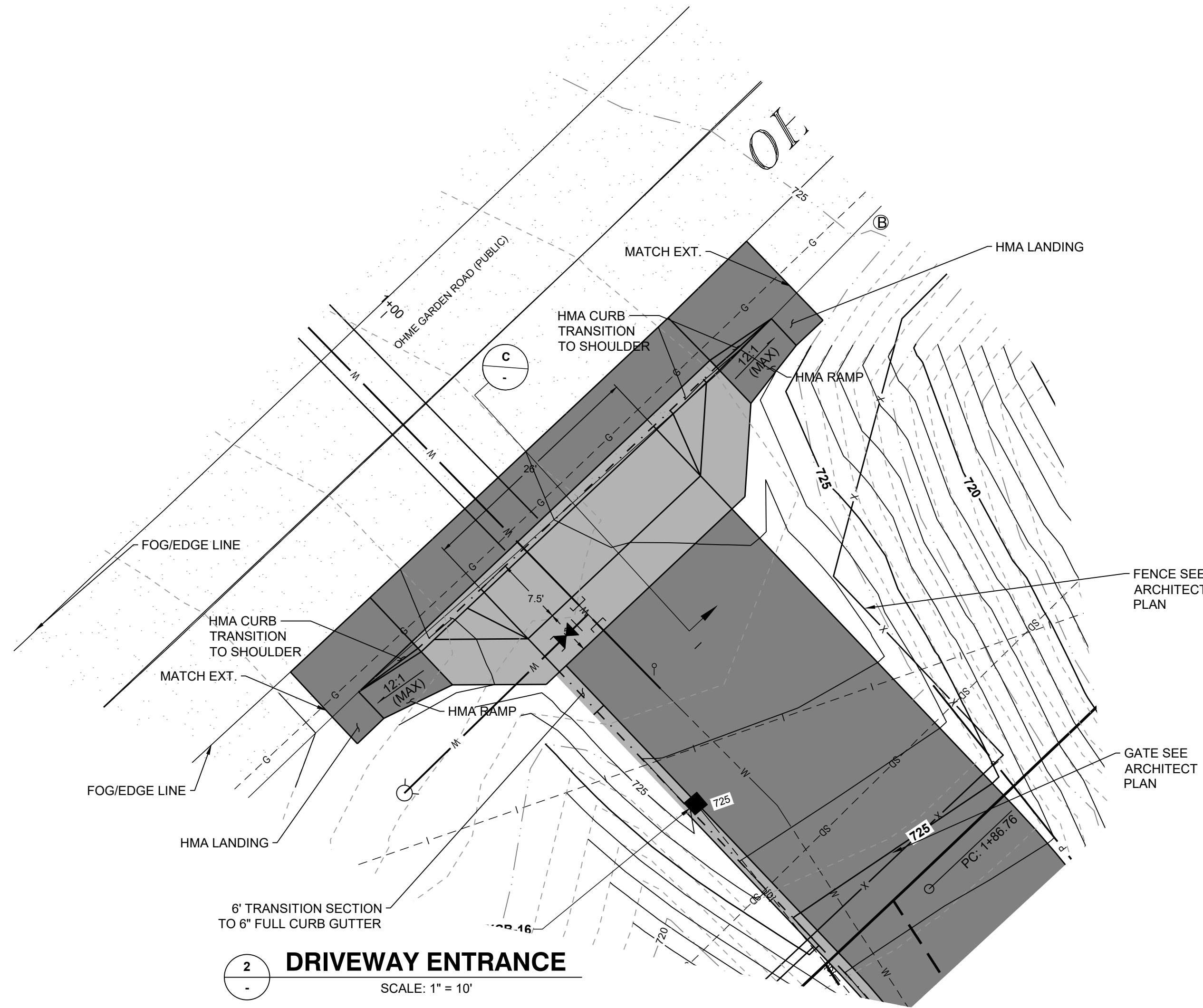


**CHELSEAN COUNTY  
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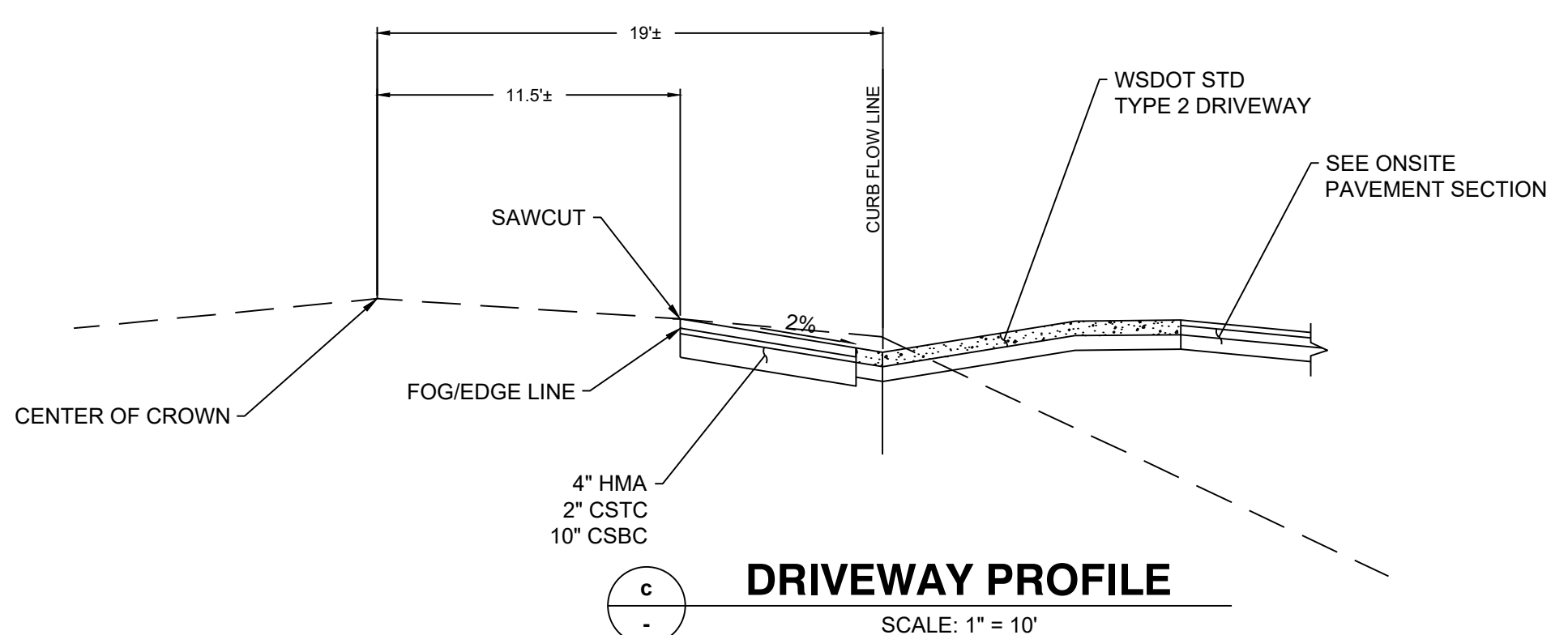
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BID SET: 1/6/2025  
Job: 2344 Date: 1/6/2025  
DWG: C-307

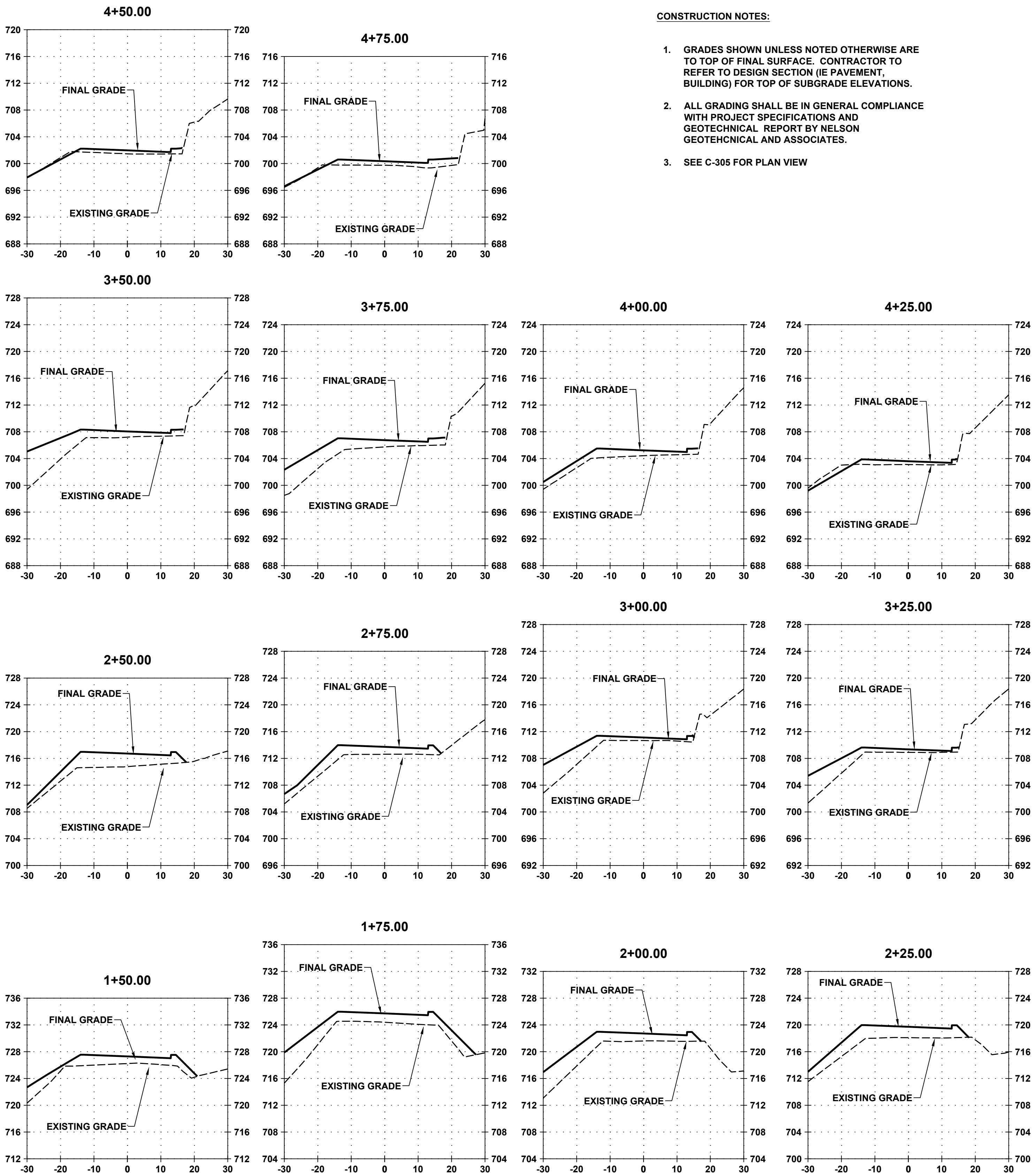




**2**  
**DRIVEWAY ENTRANCE**  
SCALE: 1" = 10'



**c**  
**DRIVEWAY PROFILE**  
SCALE: 1" = 10'



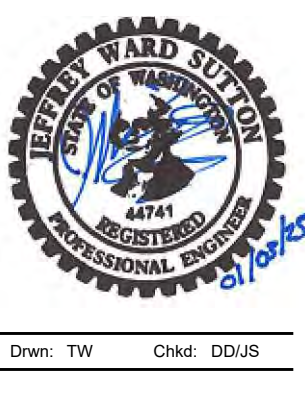
- CONSTRUCTION NOTES:**
- GRADES SHOWN UNLESS NOTED OTHERWISE ARE TO TOP OF FINAL SURFACE. CONTRACTOR TO REFER TO DESIGN SECTION (IE PAVEMENT, BUILDING) FOR TOP OF SUBGRADE ELEVATIONS.
  - ALL GRADING SHALL BE IN GENERAL COMPLIANCE WITH PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT BY NELSON GEOTECHNICAL AND ASSOCIATES.
  - SEE C-305 FOR PLAN VIEW

**DRIVEWAY CROSS-SECTIONS**  
SCALE H: 1" = 20' / V: 1" = 10'

SEE C-305 FOR PLAN VIEW

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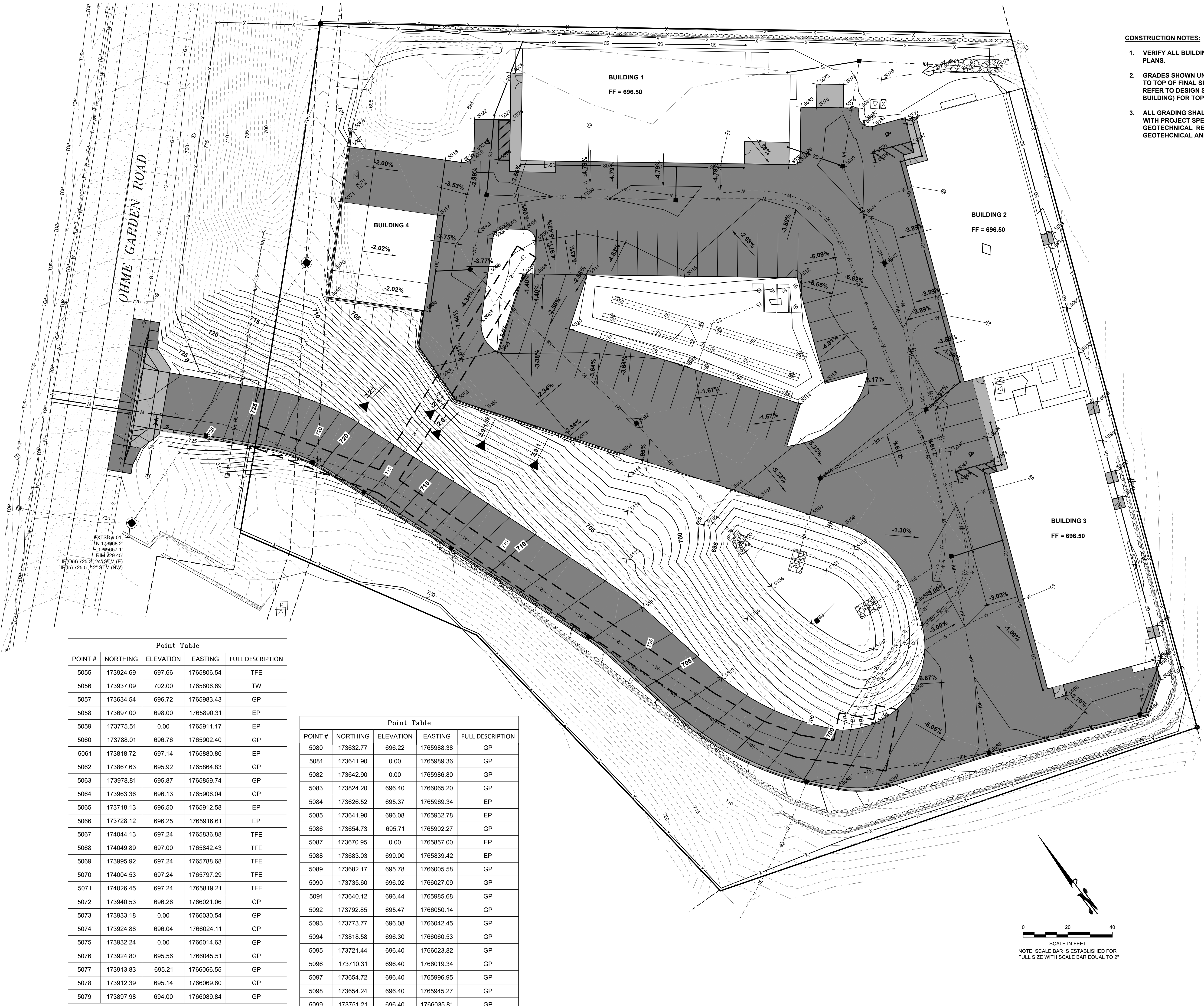


**CHELSEAN COUNTY**  
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BID SET: 1/6/2025  
Job: 2344 Date: 1/6/2025  
DWG ID -





- CONSTRUCTION NOTES:**
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  2. GRADES SHOWN UNLESS NOTED OTHERWISE ARE TO TOP OF FINAL SURFACE. CONTACT YOUR CONTRACTOR TO REFER TO DESIGN SECTION (IE PAVEMENT, BUILDING) FOR TOP OF SUBGRADE ELEVATIONS.
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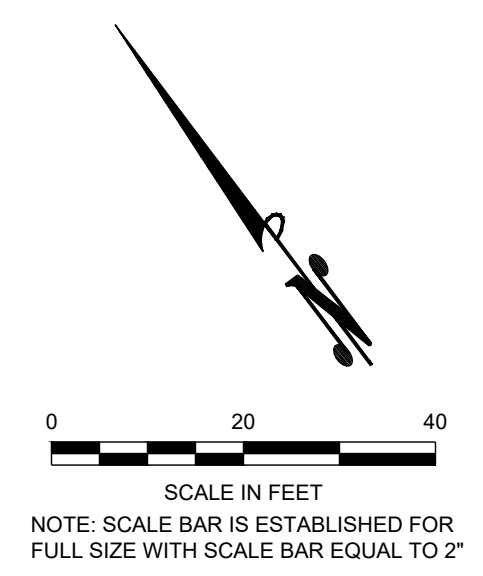
**POINT DESCRIPTION LEGEND**

- GP - GRADE POINT
- TFE - TOE FACE EXPOSED OF WALL
- EP - EDGE OF PAVEMENT
- TW - TOP OF WALL

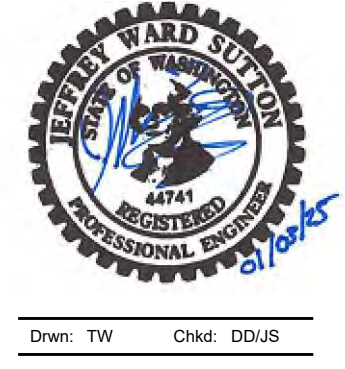
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5056	173937.09	702.00	1765806.69	TW
5057	173634.54	696.72	1765983.43	GP
5058	173697.00	698.00	1765890.31	EP
5059	173775.51	0.00	1765911.17	EP
5060	173788.01	696.76	1765902.40	GP
5061	173818.72	697.14	1765880.86	EP
5062	173867.63	695.92	1765864.83	GP
5063	173978.81	695.87	1765859.74	GP
5064	173963.36	696.13	1765906.04	GP
5065	173718.13	696.50	1765912.58	EP
5066	173728.12	696.25	1765916.61	EP
5067	174044.13	697.24	1765836.88	TFE
5068	174049.89	697.00	1765842.43	TFE
5069	173995.92	697.24	1765788.68	TFE
5070	174004.53	697.24	1765797.29	TFE
5071	174026.45	697.24	1765819.21	TFE
5072	173940.53	696.26	1766021.06	GP
5073	173933.18	0.00	1766030.54	GP
5074	173924.88	696.04	1766024.11	GP
5075	173932.24	0.00	1766014.63	GP
5076	173924.80	695.56	1766045.51	GP
5077	173913.83	695.21	1766066.55	GP
5078	173912.39	695.14	1766069.60	GP
5079	173897.98	694.00	1766089.84	GP

POINT #	NORTHING	ELEVATION	EASTING	FULL DESCRIPTION
5080	173632.77	696.22	1765988.38	GP
5081	173641.90	0.00	1765989.36	GP
5082	173642.90	0.00	1765986.80	GP
5083	173824.20	696.40	1766065.20	GP
5084	173626.52	695.37	1765969.34	EP
5085	173641.90	696.08	1765932.78	EP
5086	173654.73	695.71	1765902.27	GP
5087	173670.95	0.00	1765857.00	EP
5088	173683.03	699.00	1765839.42	EP
5089	173682.17	695.78	1766005.58	GP
5090	173735.60	696.02	1766027.09	GP
5091	173640.12	696.44	1765985.68	GP
5092	173792.85	695.47	1766050.14	GP
5093	173773.77	696.08	1766042.45	GP
5094	173818.58	696.30	1766060.53	GP
5095	173721.44	696.40	1766023.82	GP
5096	173710.31	696.40	1766019.34	GP
5097	173654.72	696.40	1765996.95	GP
5098	173654.24	696.40	1765945.27	GP
5099	173751.21	696.40	1766035.81	GP

POINT #	NORTHING	ELEVATION	EASTING	FULL DESCRIPTION
5000	173930.76	697.02	1765834.31	GP
5001	173946.47	696.43	1765837.06	GP
5002	173972.65	696.08	1765863.23	GP
5003	173973.06	696.17	1765869.83	GP
5004	173967.49	696.60	1765877.01	GP
5005	173960.47	696.98	1765877.89	GP
5006	173948.63	697.70	1765868.69	GP
5007	173951.93	697.70	1765864.49	GP
5008	173961.69	696.00	1765852.27	GP
5009	173974.10	695.99	1765866.45	GP
5010	173919.59	697.36	1765866.28	EP
5011	173934.28	698.00	1765887.21	EP
5012	173876.30	698.12	1765961.82	EP
5013	173832.03	698.00	1765943.57	EP
5014	173831.18	697.73	1765928.30	EP
5015	173907.47	697.10	1765921.74	EP
5016	173875.39	696.92	1765897.29	EP
5017	173995.92	696.37	1765849.74	GP
5018	174013.60	696.37	1765867.41	EP
5019	174008.44	696.22	1765872.51	EP
5020	174006.75	696.17	1765876.66	EP
5021	174008.91	0.00	1765880.00	EP
5022	174020.34	0.00	1765888.88	EP
5023	174013.67	696.40	1765897.47	GP
5024	173999.46	696.18	1765886.43	GP
5025	174010.49	696.40	1765901.57	GP
5026	174027.07	1396.00	1765914.45	GP
5027	173919.23	696.30	1765989.34	EP
5028	173917.77	696.25	1765993.05	EP
5029	173918.90	696.28	1765995.05	EP
5030	173936.53	0.00	1766009.10	EP
5031	173920.59	696.24	1766029.64	GP
5032	173914.54	696.20	1766028.39	EP
5033	173913.59	696.16	1766026.72	EP
5034	173910.26	0.00	1766029.68	EP
5035	173901.74	696.40	1766042.80	EP
5036	173903.79	0.00	1766043.07	GP
5037	173893.40	696.40	1766039.44	GP
5038	173900.12	0.00	1766022.74	GP
5039	173896.67	696.27	1766020.81	GP
5040	173904.20	0.00	1766008.21	GP
5041	173881.16	696.00	1766002.74	GP
5042	173857.99	695.70	1765997.05	GP
5043	173794.57	695.70	1765972.29	GP
5044	173798.35	696.00	1765915.77	GP
5045	173772.67	696.13	1765969.80	GP
5046	173767.90	696.40	1765987.01	EP
5047	173764.42	698.00	1765966.20	GP
5048	173759.78	696.13	1765964.33	GP
5049	173757.69	698.00	1765982.90	EP
5050	173965.40	696.37	1765819.21	GP
5051	173965.39	701.98	1765819.01	TW
5052	173913.58	702.00	1765814.15	TW
5053	173877.95	697.66	1765838.09	TW
5054	173861.60	697.00	1765850.74	TFE



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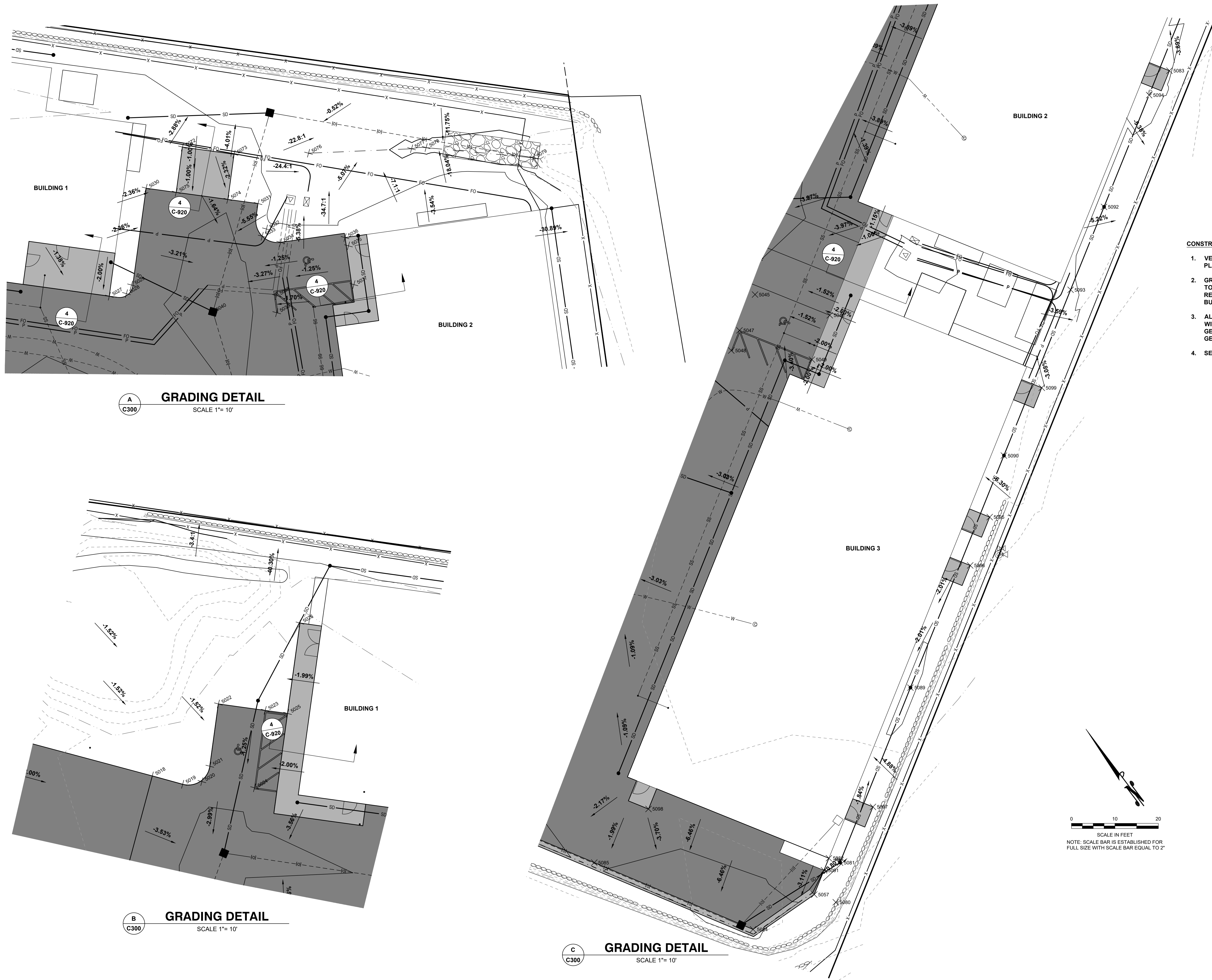


**CHELSEAN COUNTY**  
**OLDS STATION CAMPUS**  
 WENATCHEE, WASHINGTON 98801  
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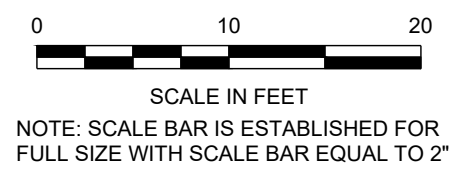


**A**  
C300 **GRADING DETAIL**  
SCALE 1"= 10'

**B**  
C300 **GRADING DETAIL**  
SCALE 1"= 10'

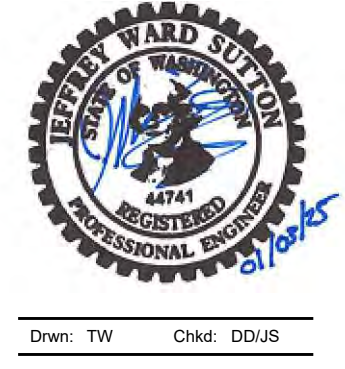
**C**  
C300 **GRADING DETAIL**  
SCALE 1"= 10'

- CONSTRUCTION NOTES:**
1. VERIFY ALL BUILDING DIMENSIONS WITH ARCHITECT PLANS.
  2. GRADES SHOWN UNLESS NOTED OTHERWISE ARE TO TOP OF FINAL SURFACE. CONTRACTOR TO REFER TO DESIGN SECTION (IE PAVEMENT, BUILDING) FOR TOP OF SUBGRADE ELEVATIONS.
  3. ALL GRADING SHALL BE IN GENERAL COMPLIANCE WITH PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT BY NELSON GEOTECHNICAL AND ASSOCIATES.
  4. SEE C-310 FOR POINT TABLE



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# CHELSEAN COUNTY OLDS STATION CAMPUS

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WENATCHEE, WASHINGTON 98801

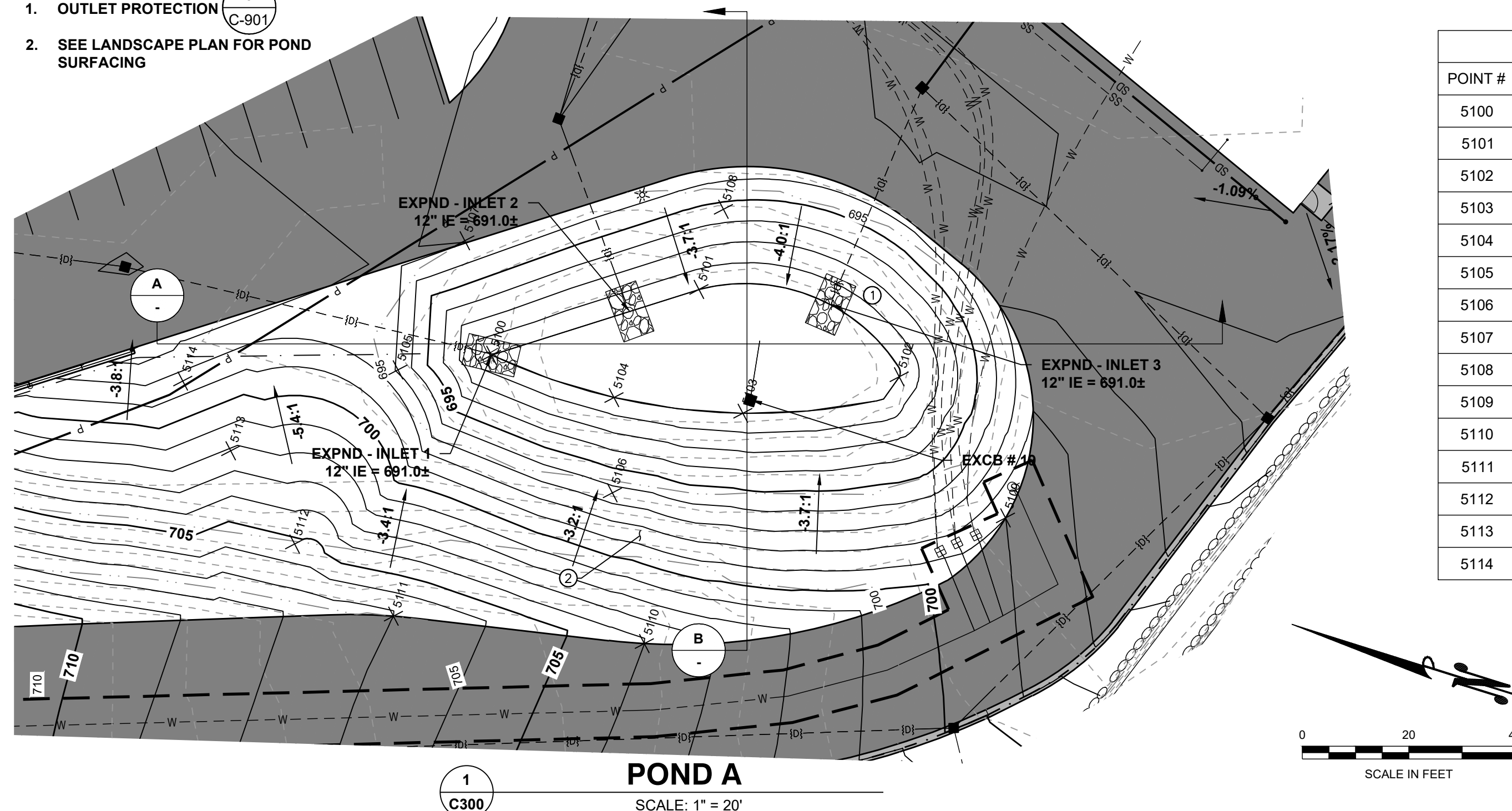
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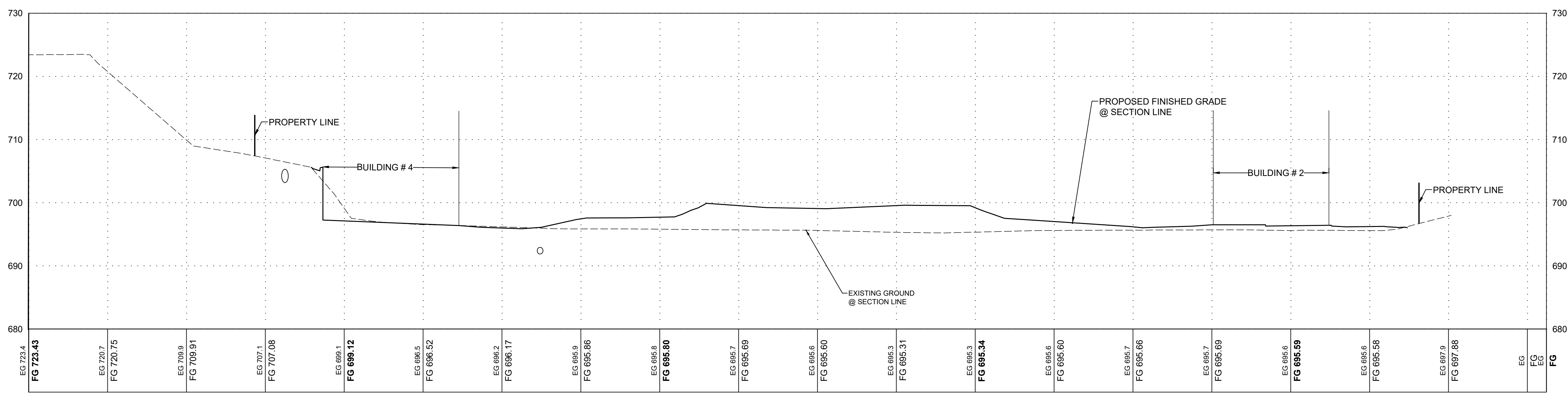
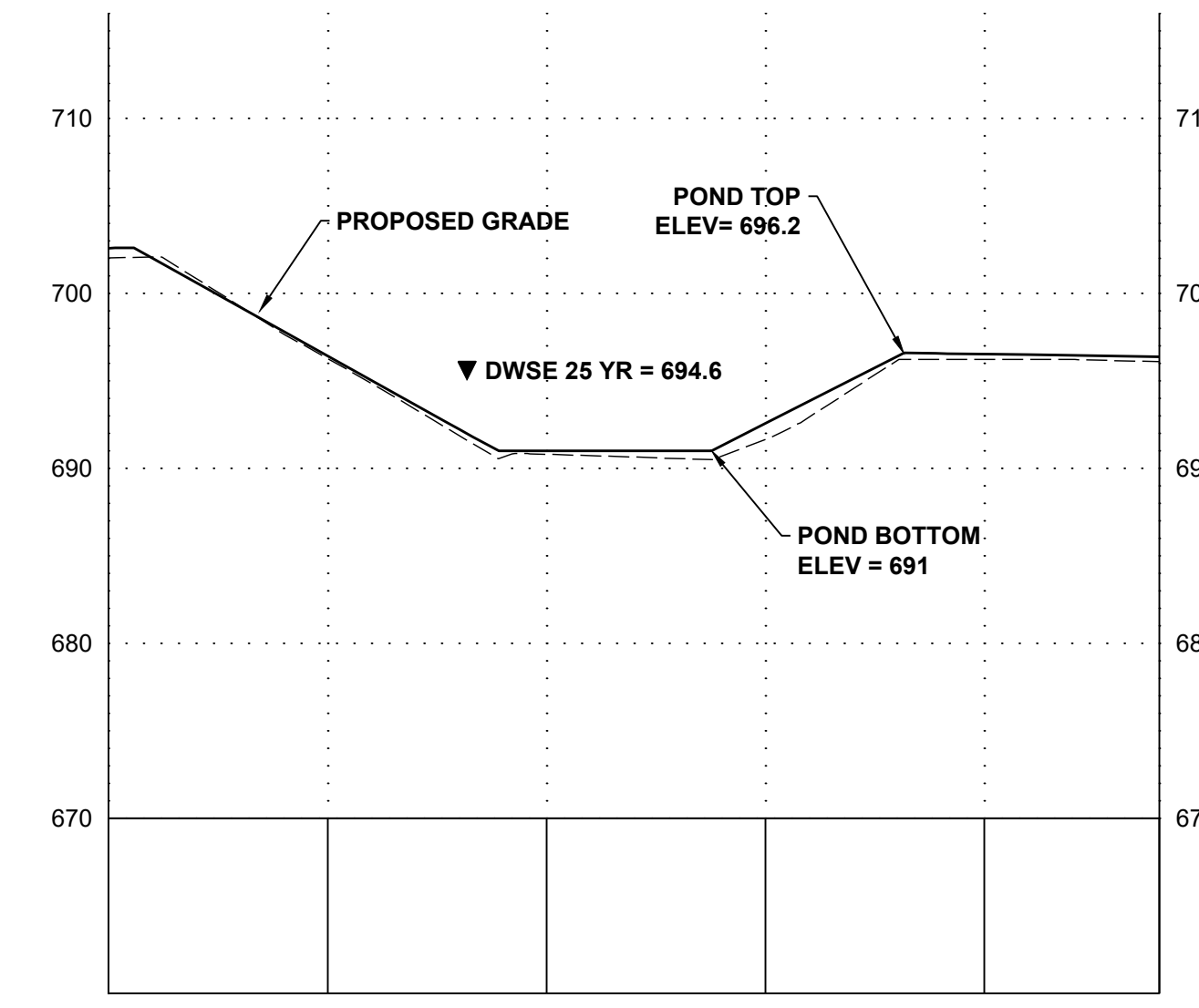
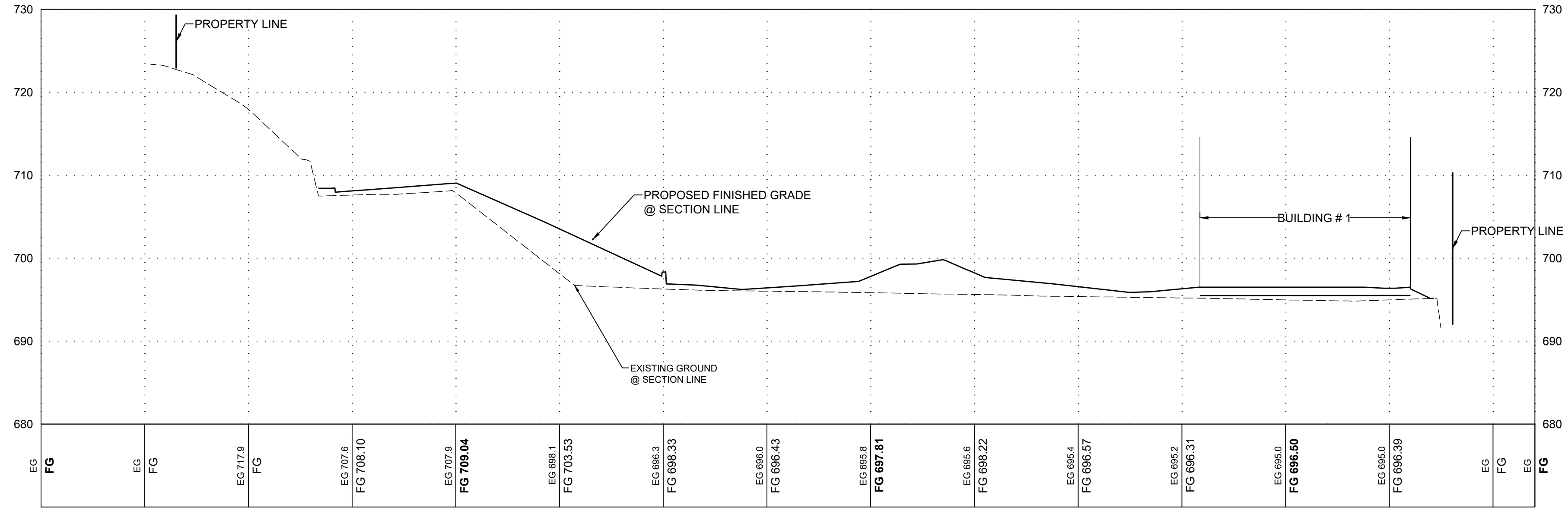
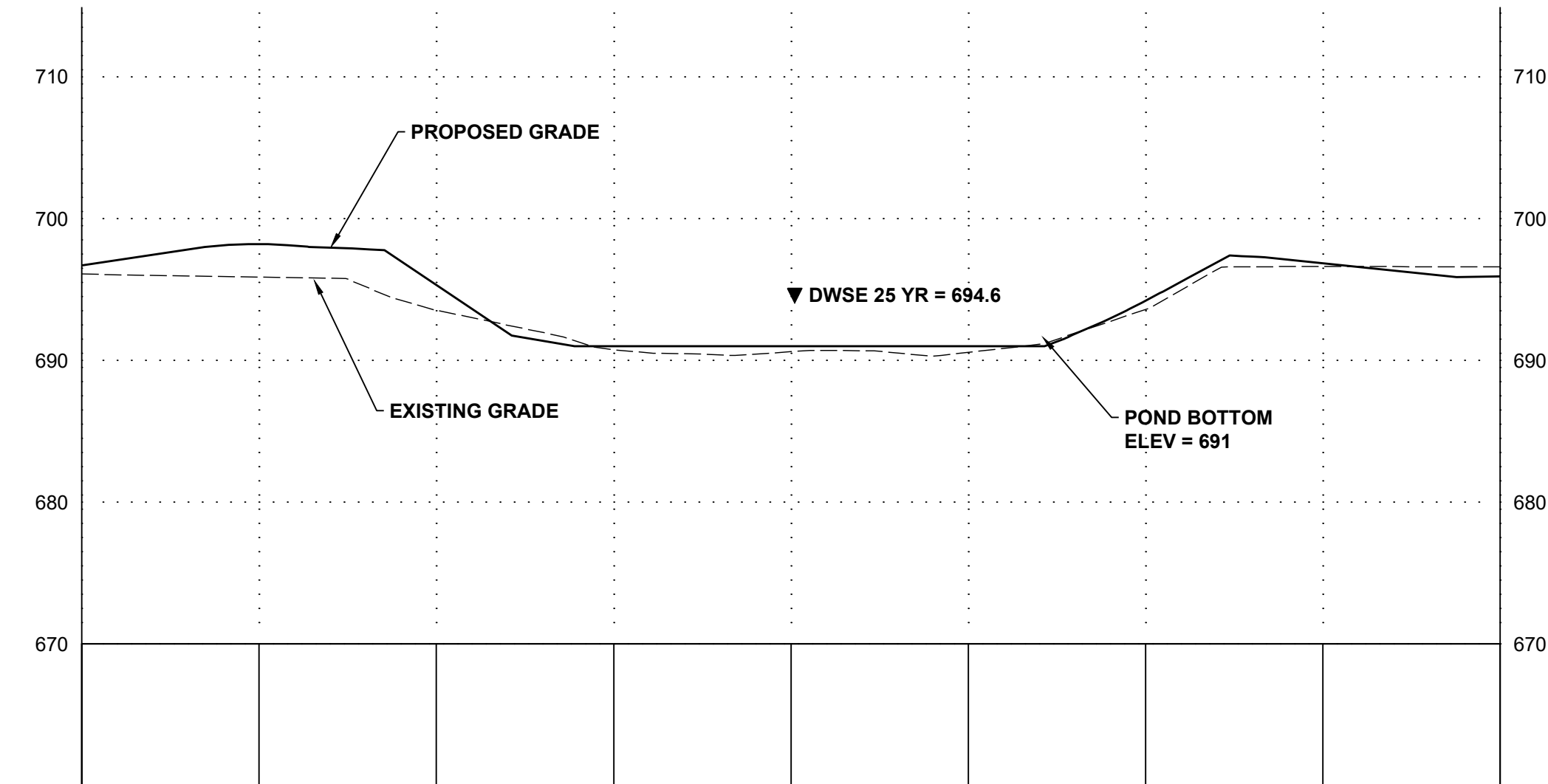
**C-350**



- CONSTRUCTION NOTES:**
- OUTLET PROTECTION C-901
  - SEE LANDSCAPE PLAN FOR POND SURFACING



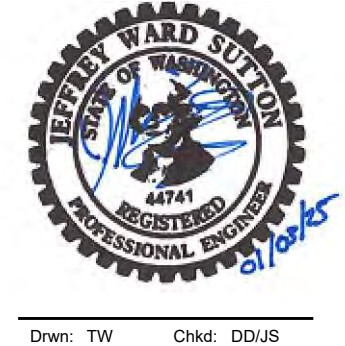
Point Table				
POINT #	NORTHING	ELEVATION	EASTING	FULL DESCRIPTION
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5102	173722.89	692.00	1765888.82	GP
5103	173748.82	692.00	1765873.47	GP
5104	173772.76	692.00	1765869.04	GP
5105	173813.01	697.00	1765861.79	GP
5106	173767.71	697.00	1765851.87	GP
5107	173808.30	696.99	1765888.67	GP
5108	173763.82	695.00	1765908.88	GP
5109	173695.88	699.00	1765869.57	GP
5110	173753.45	704.00	1765826.68	GP
5111	173799.91	707.00	1765817.44	GP
5112	173821.70	705.00	1765824.77	GP
5113	173838.38	701.00	1765837.85	GP
5114	173850.89	698.00	1765847.66	GP



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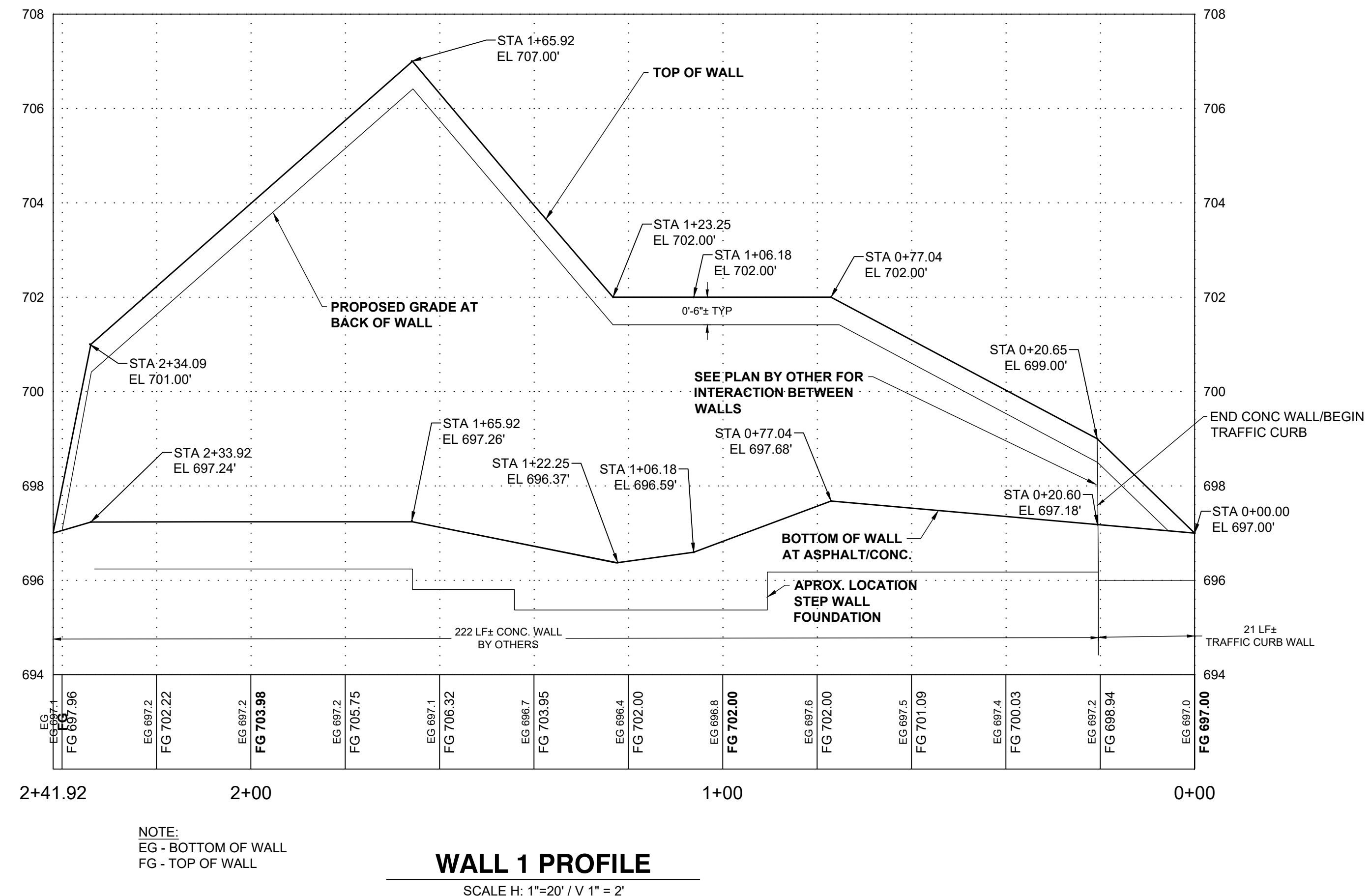
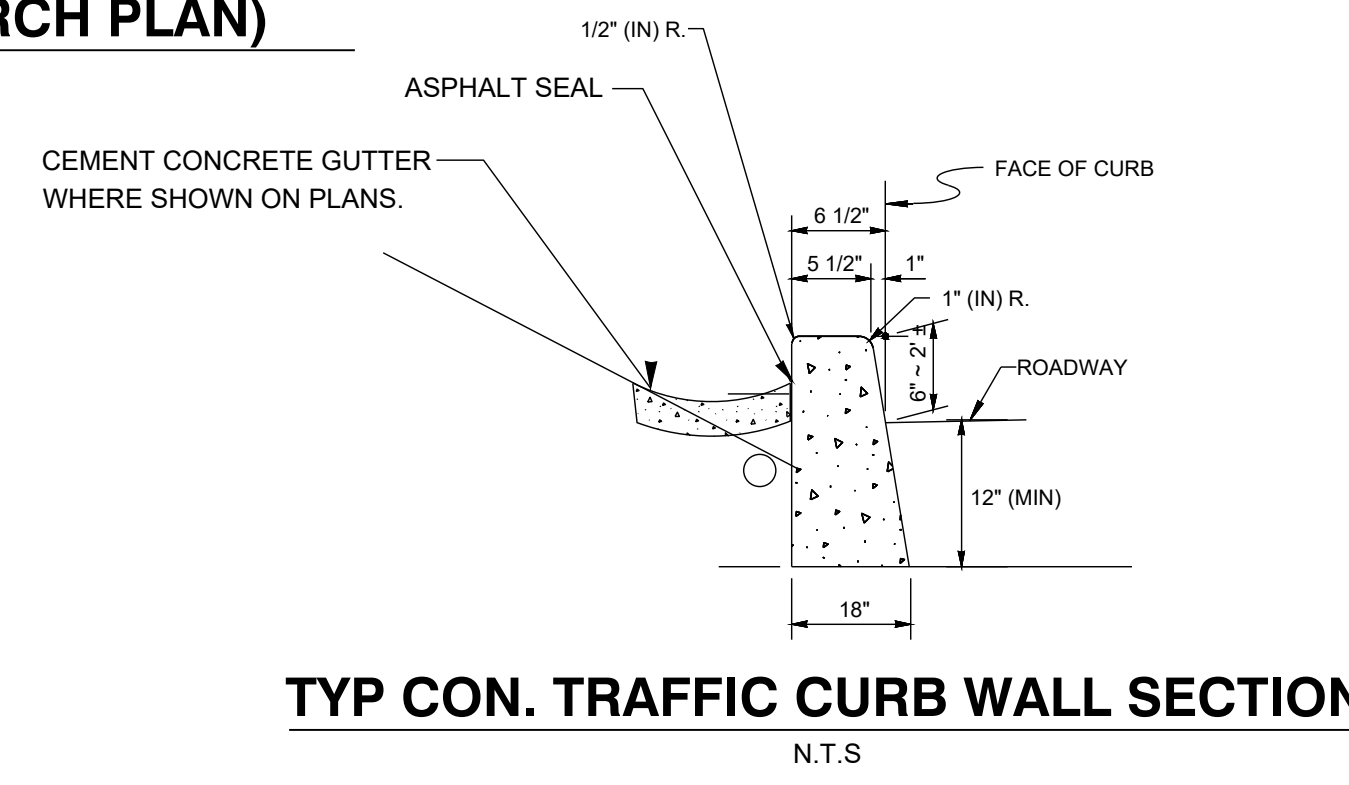
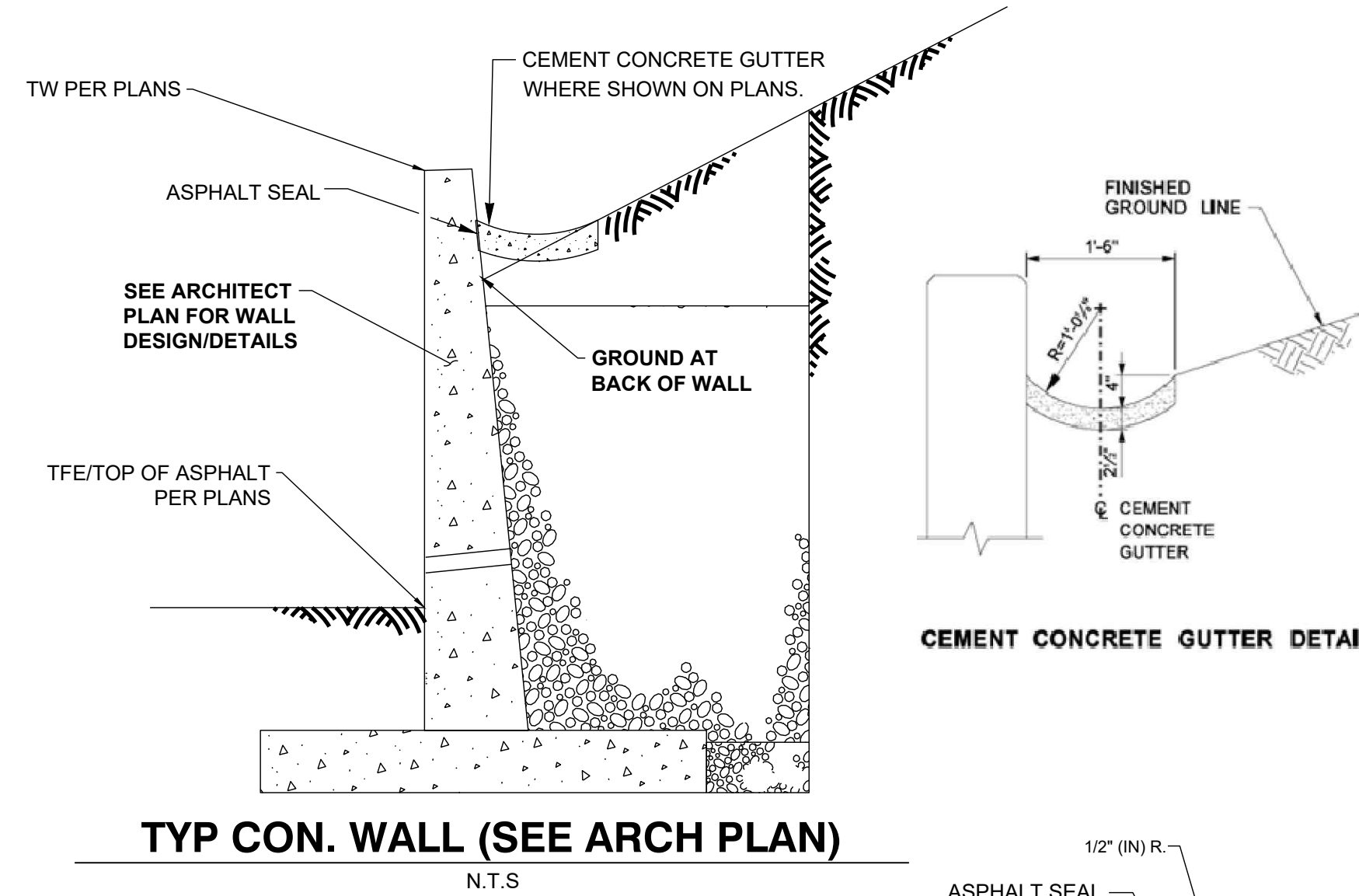
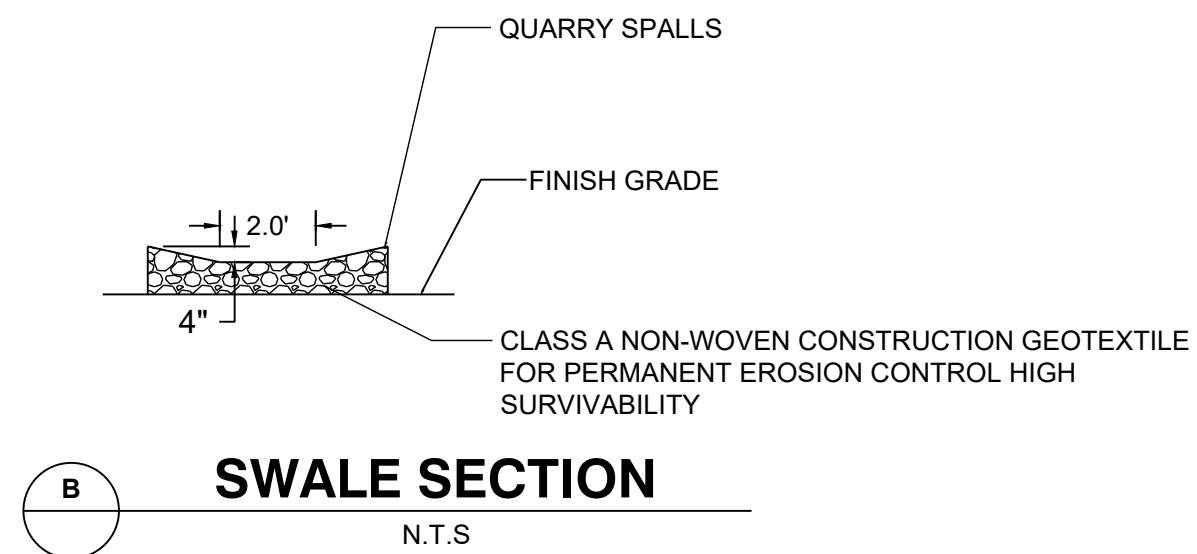
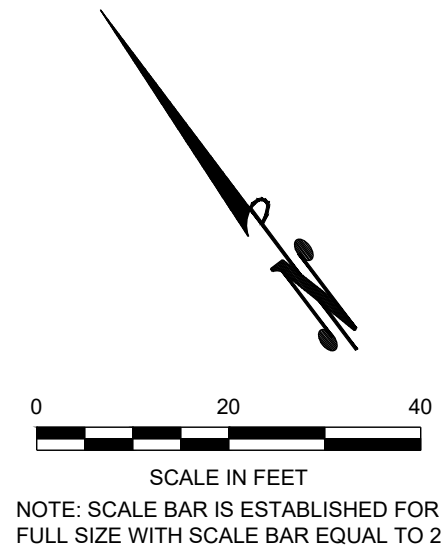
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DWG ID -

**C-360**

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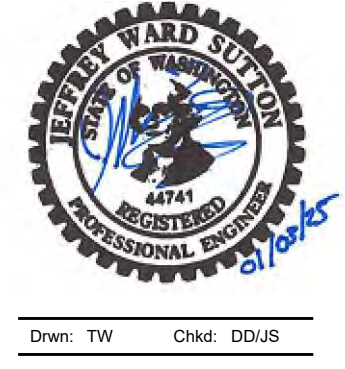
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NOTE:  
EG - BOTTOM OF WALL  
FG - TOP OF WALL



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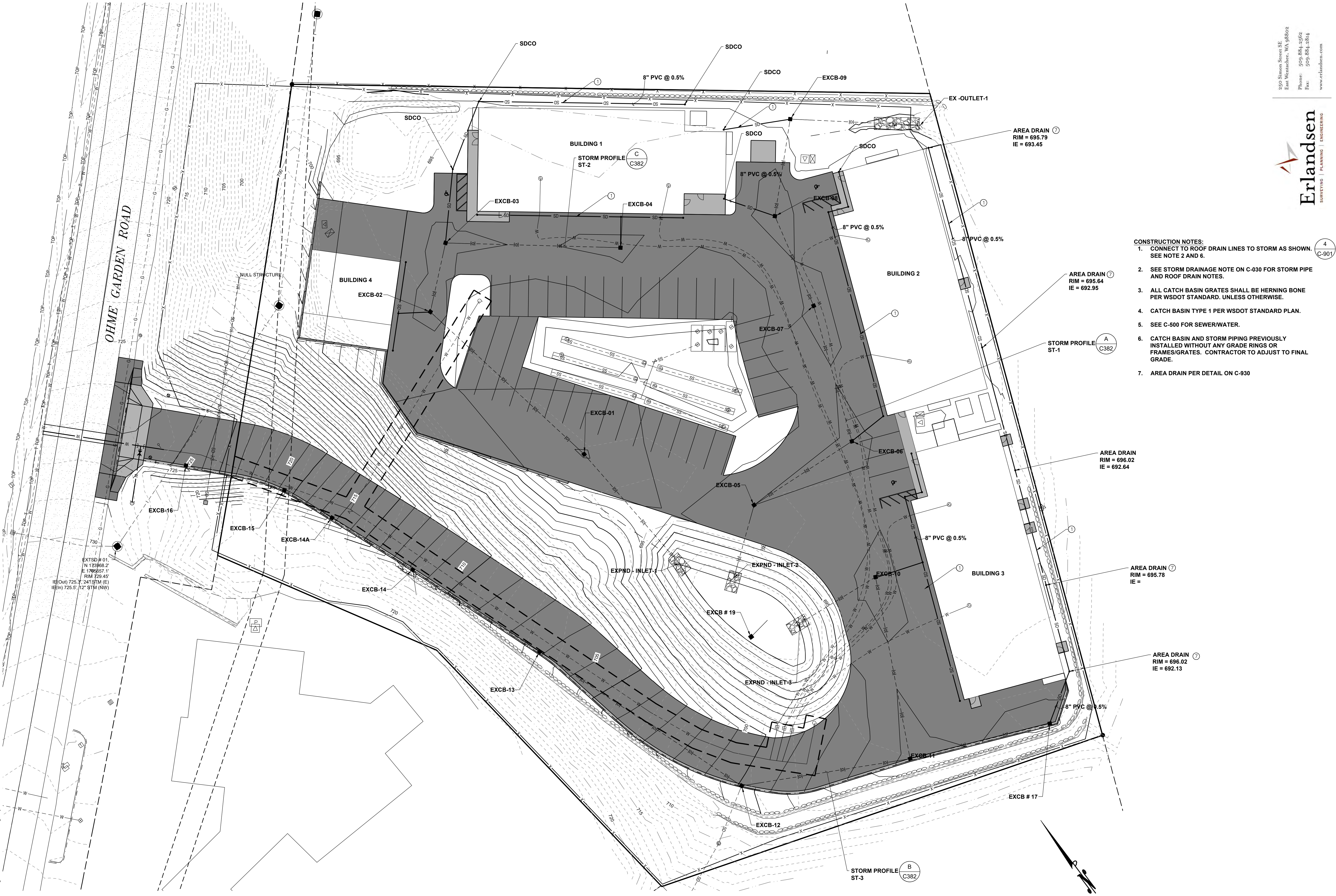
**CHELSEAN COUNTY  
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**STORM PLAN**  
1:20

0 20 40  
SCALE IN FEET  
NOTE: SCALE BAR IS ESTABLISHED FOR FULL SIZE WITH SCALE BAR EQUAL TO 2"

- CONSTRUCTION NOTES:**
- CONNECT TO ROOF DRAIN LINES TO STORM AS SHOWN. SEE NOTE 2 AND 6.
  - SEE STORM DRAINAGE NOTE ON C-030 FOR STORM PIPE AND ROOF DRAIN NOTES.
  - ALL CATCH BASIN GRATES SHALL BE HERNING BONE PER WSDOT STANDARD, UNLESS OTHERWISE.
  - CATCH BASIN TYPE 1 PER WSDOT STANDARD PLAN.
  - SEE C-500 FOR SEWER/WATER.
  - CATCH BASIN AND STORM PIPING PREVIOUSLY INSTALLED WITHOUT ANY GRADE RINGS OR FRAMES/GRATES. CONTRACTOR TO ADJUST TO FINAL GRADE.
  - AREA DRAIN PER DETAIL ON C-930

EXTSD # 01  
N 172386.2'  
E 1796557.1'  
RIM 729.45'  
IE(Out) 725.3', 247.91M (E)  
IE(In) 725.5', 12' 51M (NW)

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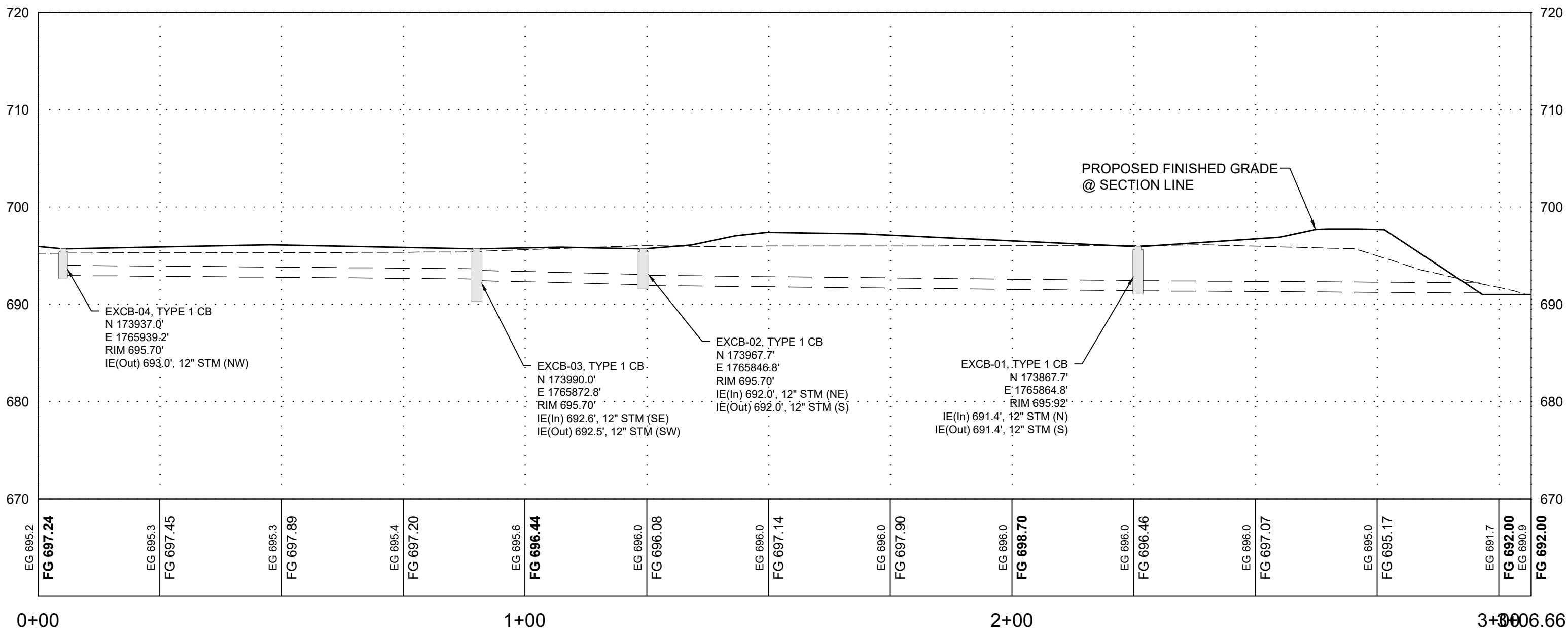
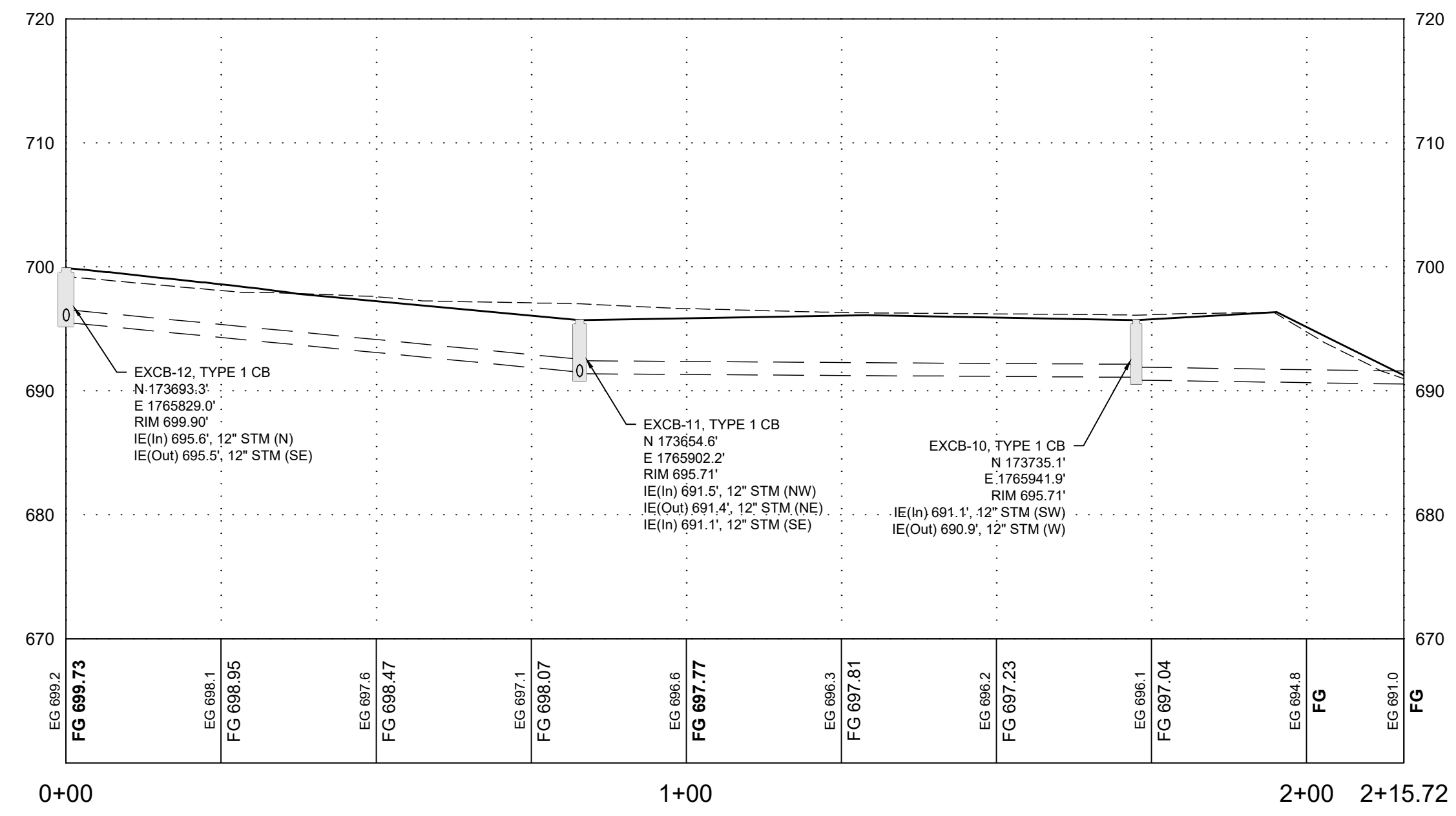
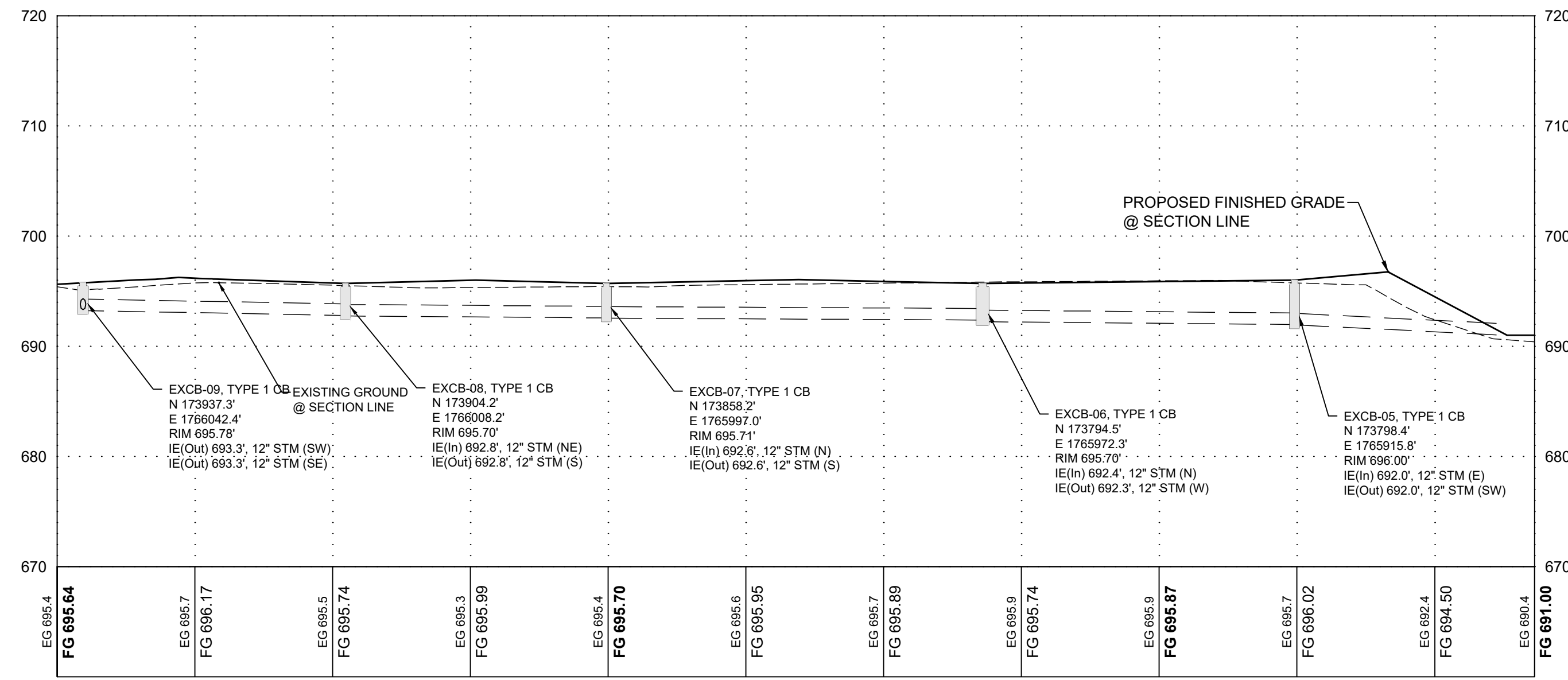
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**C-380**





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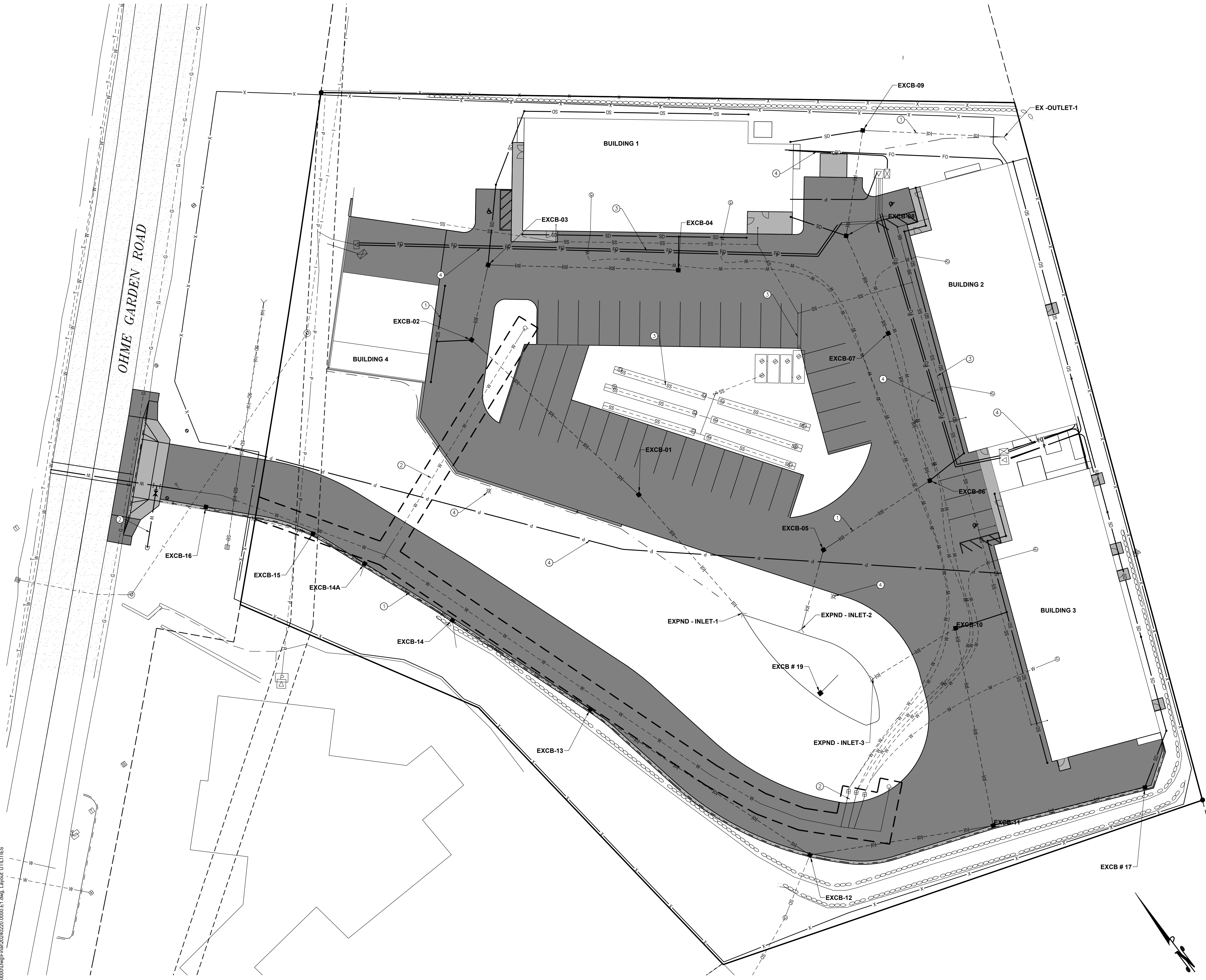
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**UTILITY OVERVIEW**

1:20



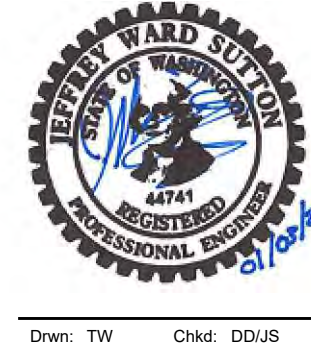
SCALE IN FEET  
NOTE: SCALE BAR IS ESTABLISHED FOR FULL SIZE WITH SCALE BAR EQUAL TO 2"

**CONSTRUCTION NOTES:**

1. SEE C - 380 FOR STORM INFORMATION
2. SEE C-600 FOR WATER INFORMATION
3. SEE C-500 FOR SEWER INFORMATION
4. POWER SHOWN IS APPROXIMATE ONLY REFER TO ELECTRICAL SITE PLAN E1.0 FOR FINAL LOCATION(S) AND DETAILS.



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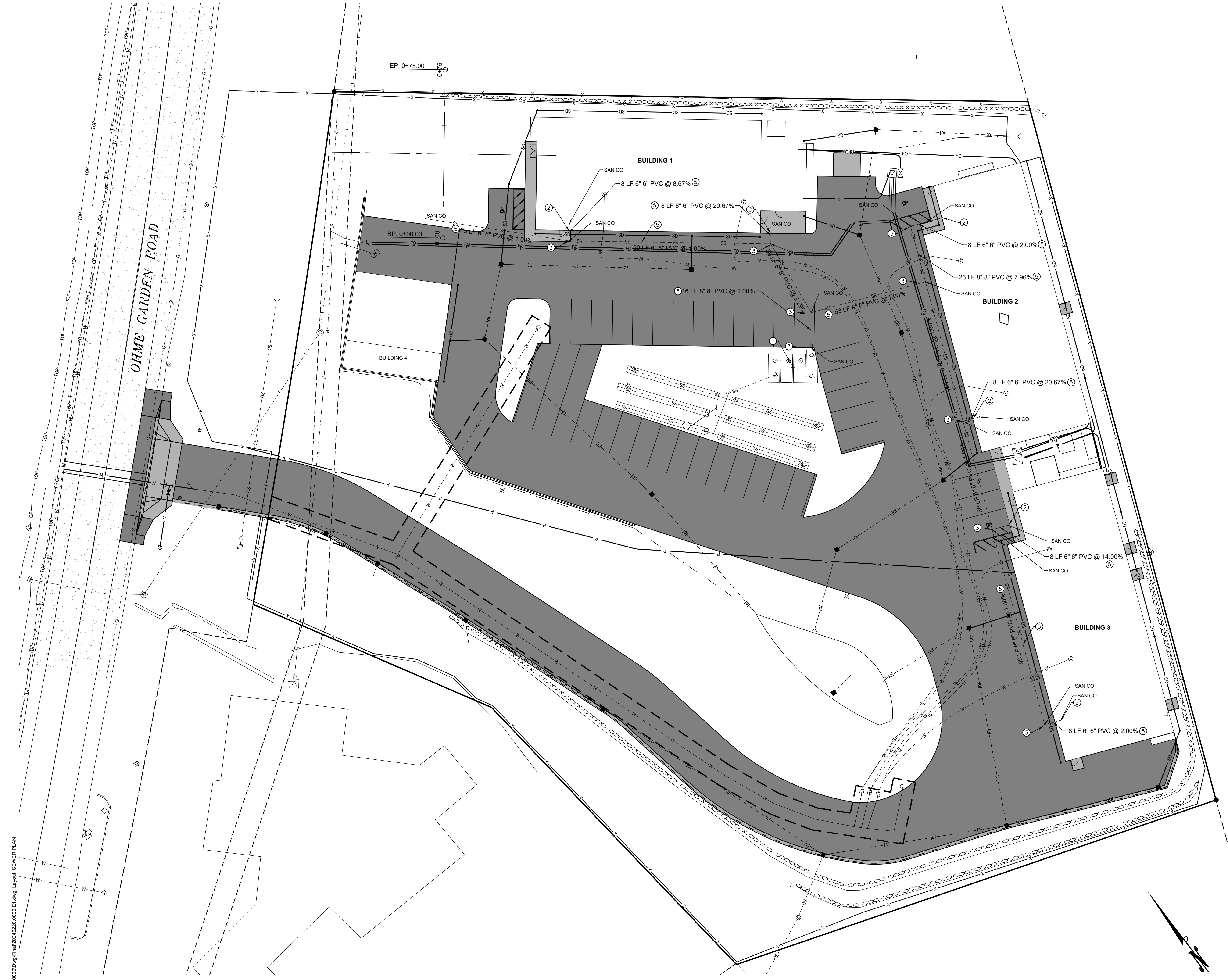
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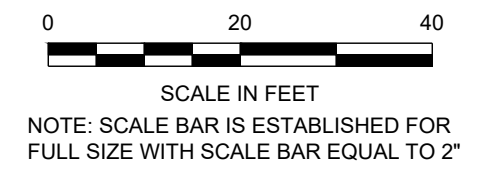
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Job: 2344 Date: 1/6/2025  
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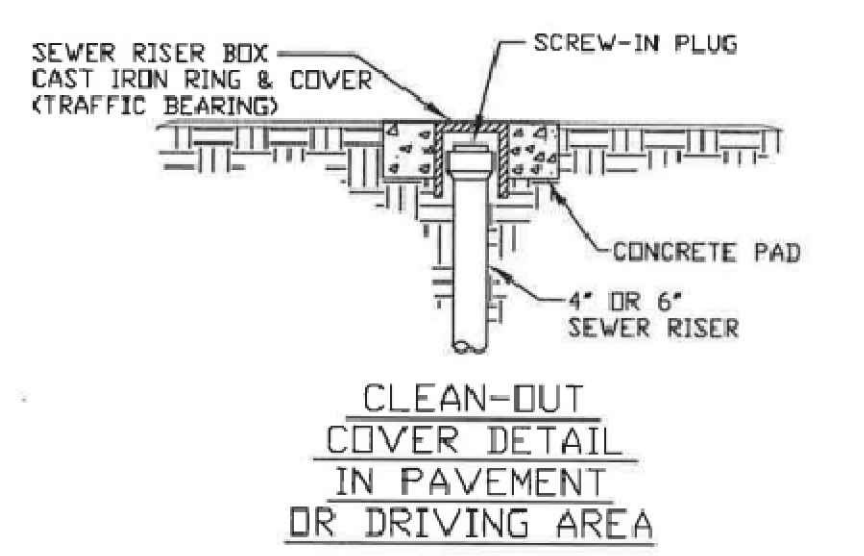
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**SEWER PLAN**  
1:20



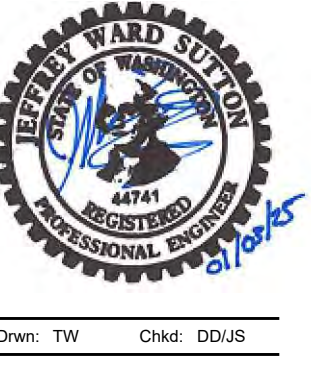
- NOTES:**
1. SEPTIC SYSTEM SHOWN IN SCHEMATIC FORM BASED ON ON-SITE SEWAGE SYSTEM SITE EVALUATION AND DESIGN BY TOWER DESIGN, INC DATED 01-13-2021.
  2. SEE BUILDING PLUMBING PLANS FOR SEWER CONNECTION. SEE NOTE 7.
  3. SSCO SHALL BE PER DBL SWEEP COMBO W/ COVER PER DETAIL THIS SHEET. RAISE TO FINAL GRADE.
  4. SEWER PIPE SHALL BE PVC ASTM 3034.
  5. SEWER PREVIOUSLY INSTALLED VERIFY CONNECTION POINT AND TIE-IN PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
  6. CONTRACTOR SHALL TEST SEPTIC SYSTEM PER CHDD STANDARDS.
  7. SEWER SHALL BE TESTED PER WSDOT SS 7-17.3(2)E AND WSDOT SS 7-17.3(2)F. CONTRACTOR TO PROVIDE ALL TESTING MATERIALS.



**2 SEWER CLEANOUT (TYP)**  
N.T.S.



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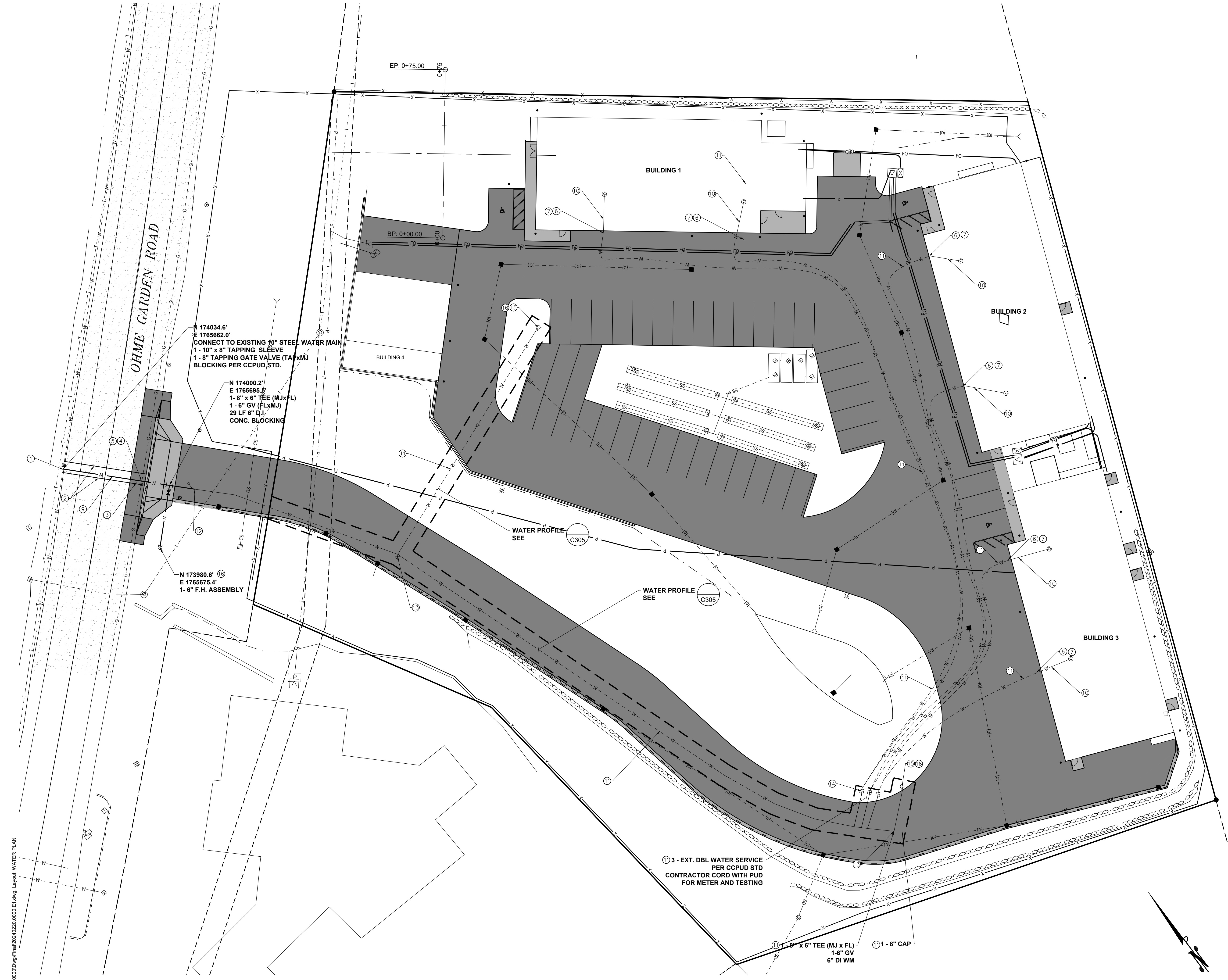
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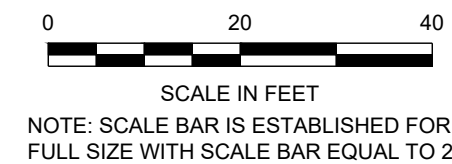


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**WATER PLAN**

1:20

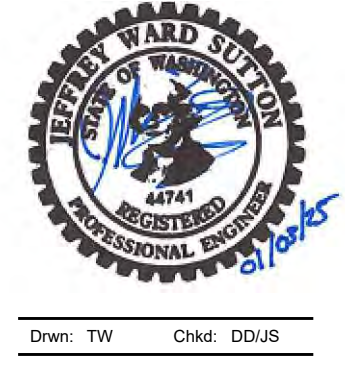


**NOTES:**

1. CONTRACTOR TO COORDINATE CONNECTION WITH CHELAN PUD.
2. PAVEMENT RESTORATION PER C.O.W. STD R4
3. WATER TRENCH PER CCPUD STD. W114
4. POTHOLE TO LOCATE CASCADE NATURAL GAS. LOCATE AND DEPTH. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
5. EXTEND POLYETHYLENE ENCASUREMENT 50' EACH SIDE OF GAS LINE CROSSINGS.
6. 2" POLY SERVICE LINE EXTEND TO BUILDING. CONTRACTOR TO COORDINATE LOCATION WITH BUILDING PLUMBING PLANS.
7. SEE BUILDING PLUMBING PLANS FOR WATER CONNECTION.
8. CASE SERVICE LINE PER CHELAN PUD STANDARDS.
9. WATER LINE TO BE FULLY RESTRAINED PER CCPUD STD W123.
10. CITY OF WENATCHEE APPROVED BACKFLOW DEVICE REQUIRED TO BE LOCATED INTERNALLY AND PRIOR TO ANY CONNECTION, BRANCH OR TEE.
11. PRIOR UTILITY WORK INSTALLED WATER LINES, HYDRANTS AND FITTING AS SHOWN. CONTRACTOR SHALL COORDINATE ALL REQUIRED TESTING WITH CCPUD.
12. REMOVE TEMP BLOW-OFF AND EXTEND WATER LINE.
13. LOCATE VALVE AND INSTALL IN VALVE BOX PER CCPUD STD.
14. ADJUST TO FINAL GRADE AROUND METER BOXES PER CCPUD STANDARDS.
15. ADJUST FH AS REQ'D TO FINAL GRADES PER CCPUD STANDARDS.
16. INSTALL BOLLARDS TO PROTECT F.H. PER CCPUD STANDARDS. CONTRACTOR TO COORDINATE LOCATION AND FINAL NUMBER WITH CCPUD.



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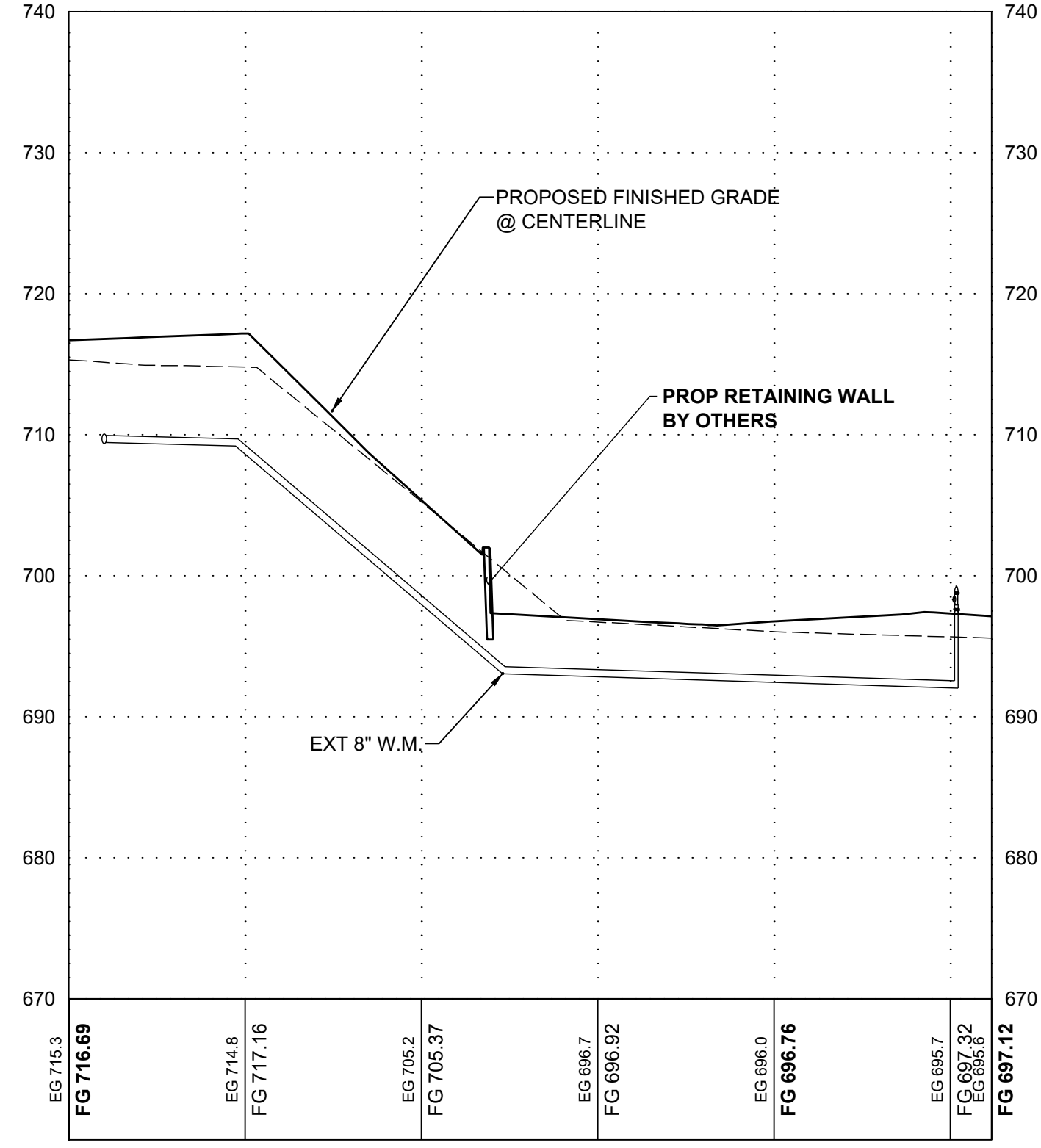
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**C-600**





3

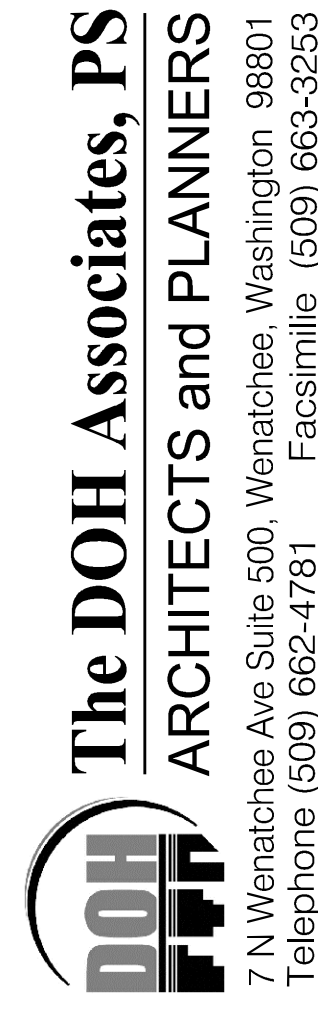
**WATER PROFILE-1**

SCALE: HORT 1" = 30' / VERT: HORT 1" = 15'



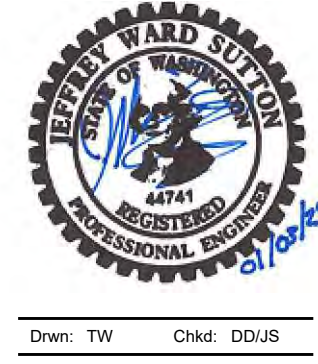
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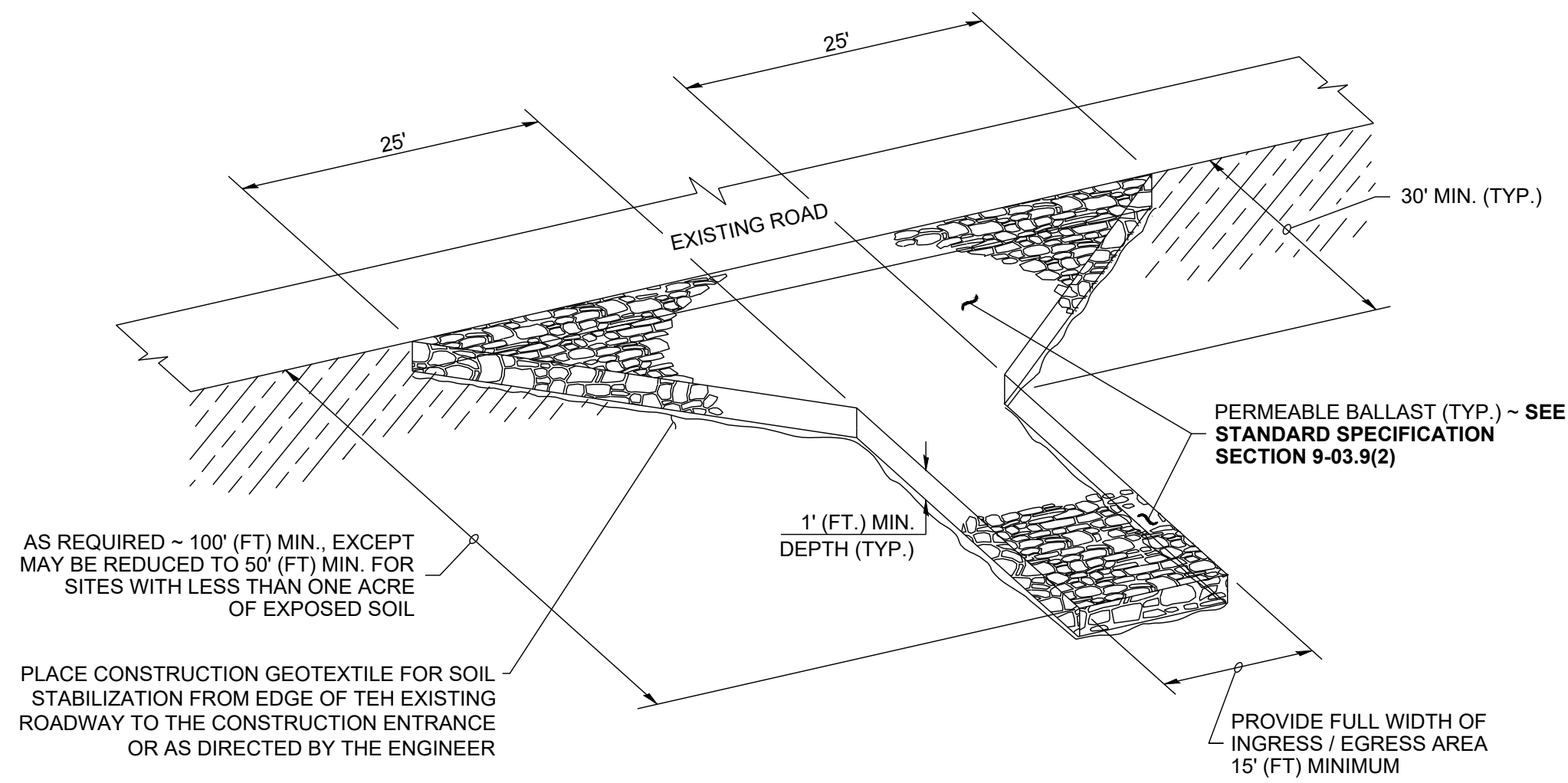
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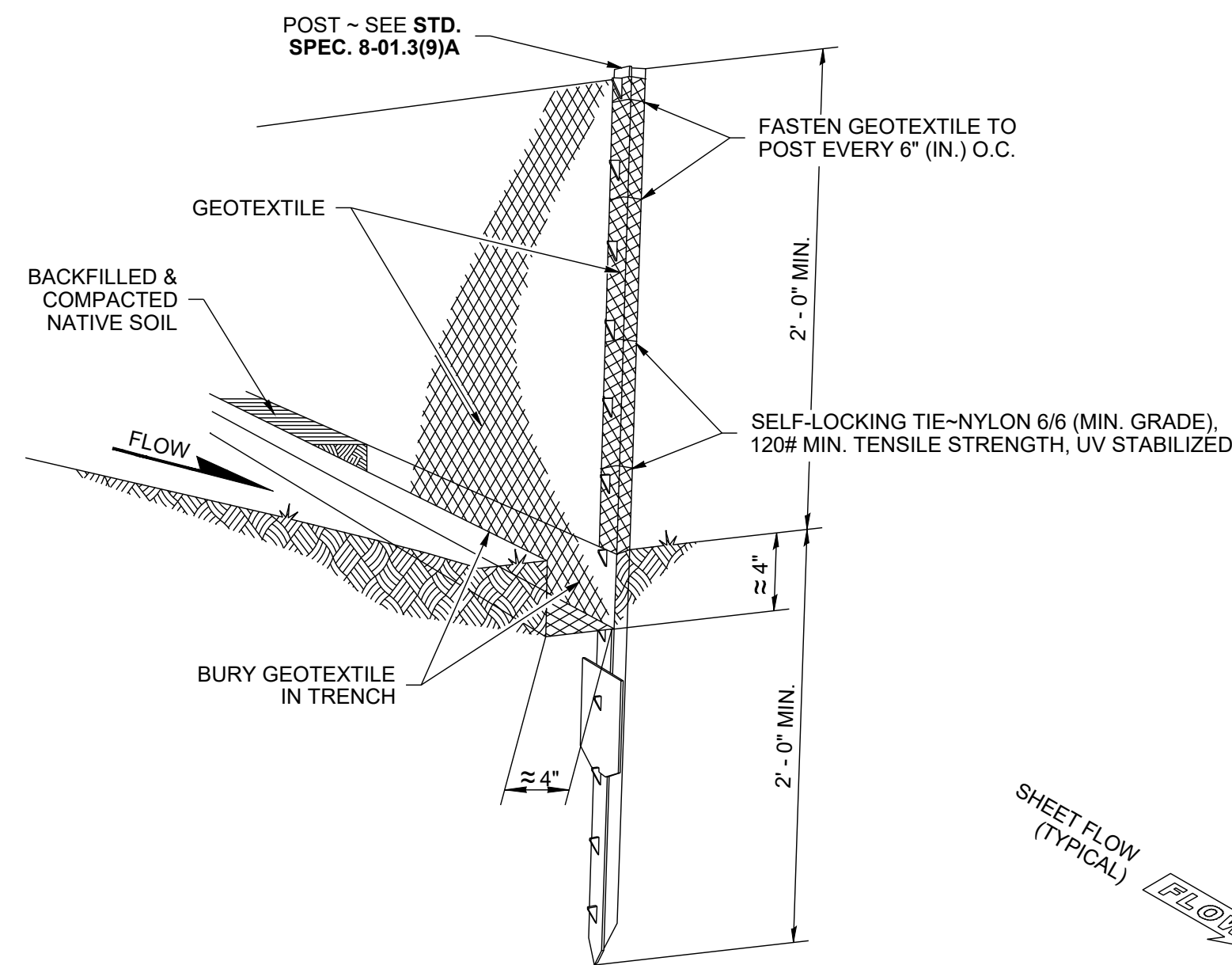
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**1 STABILIZED CONSTRUCTION ENTRANCE**

SCALE: NOT TO SCALE  
WSDOT STD PLAN I-80.10-02

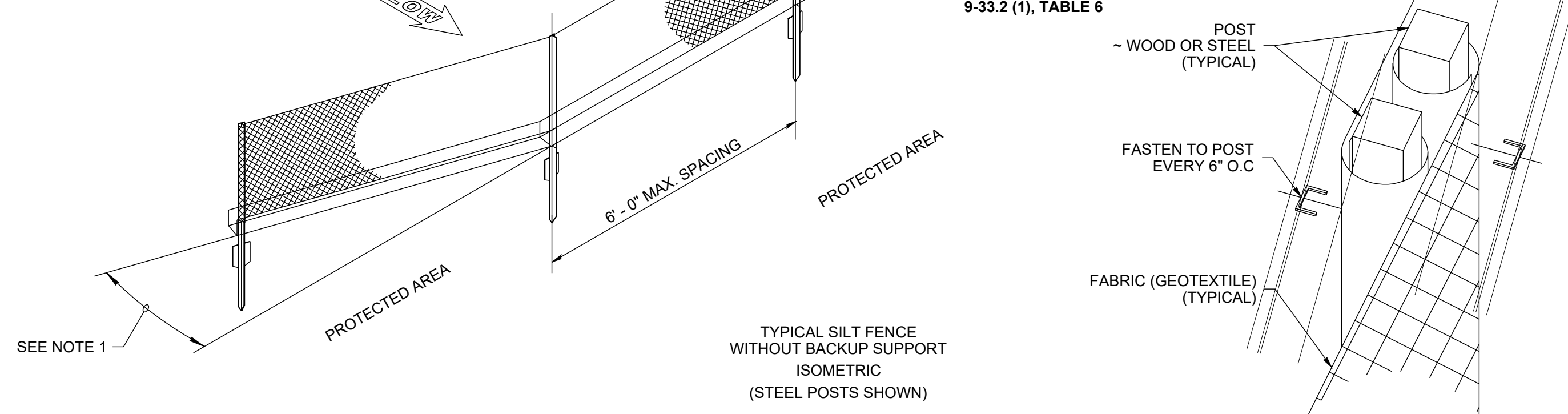


**NOTES**

1. INSTALL THE ENDS OF THE SILT FENCE TO POINT SLIGHTLY UPSLOPE TO PREVENT SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE.
2. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATIONS 8-01.3(9)A AND 8-01.3(15).
3. SPLICES SHALL NEVER BE PLACED IN LOW SPOTS OR SUMP LOCATIONS. IF SPLICES ARE LOCATED IN LOW OR SUMP AREA, THE FENCE MAY NEED TO BE REINSTALLED UNLESS THE PROJECT ENGINEER APPROVES THE INSTALLATION.
4. INSTALL SILT FENCING PARALLEL TO MAPPED CONTOUR LINES.

DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

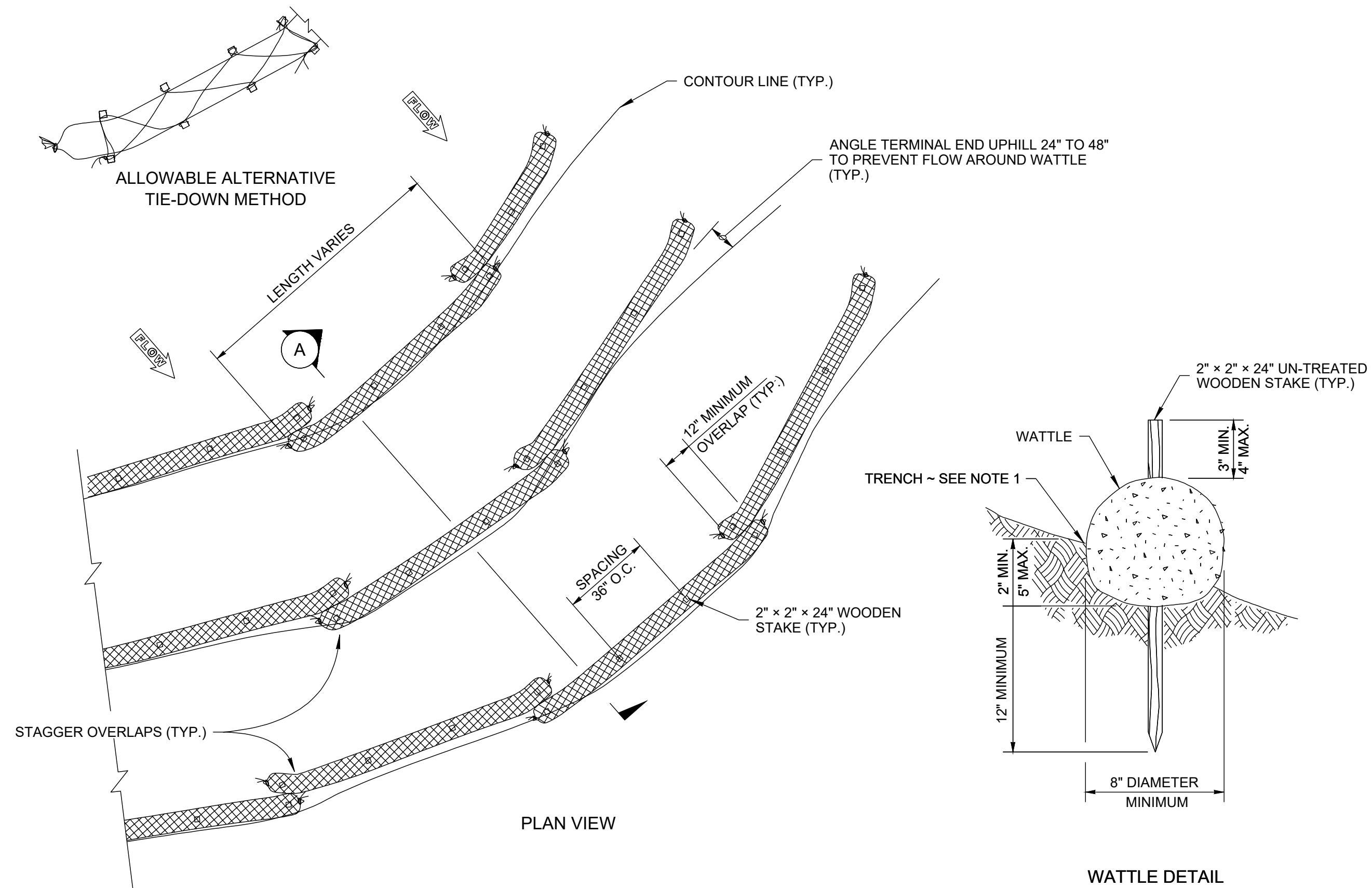
TYPICAL INSTALLATION DETAIL (STEEL POSTS SHOWN)



**2 SILT FENCE**

SCALE: NOT TO SCALE  
WSDOT STD PLAN I-30.15-02

SPLICED FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO PREVENT SILT LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP. (WOOD POSTS SHOWN)  
SPLICE DETAIL



8" DIAMETER WATTLE SPACING TABLE	
SLOPE	MAXIMUM SPACING
1H : 1V	10' - 0"
2H : 1V	20' - 0"
3H : 1V	30' - 0"
4H : 1V	40' - 0"

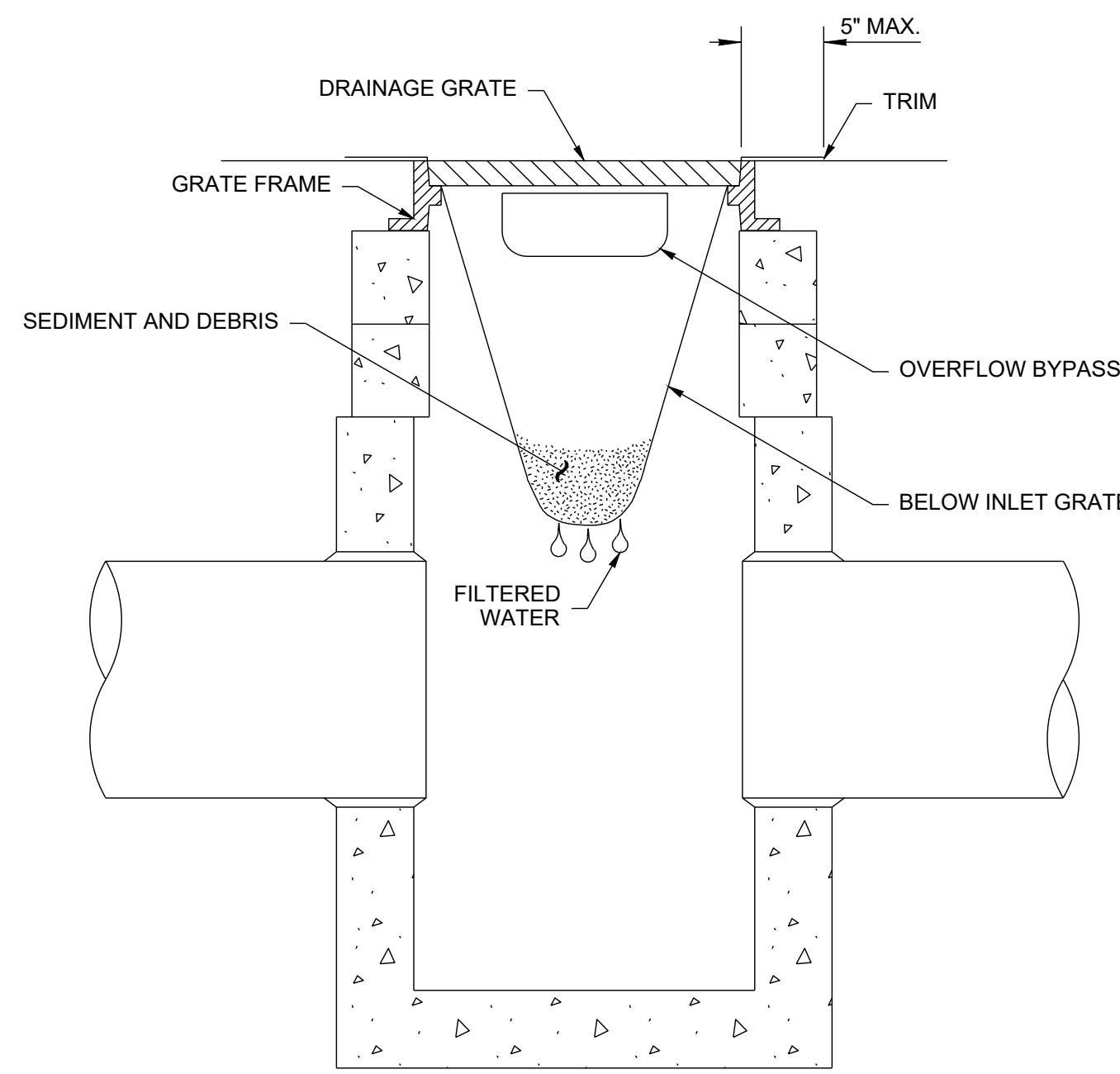
1. WATTLES SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 9-14.5(5). INSTALL WATTLES ALONG CONTOURS. INSTALLATION SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 8-01.3(10).
2. SECURELY KNOT EACH END OF WATTLE. OVERLAP ADJACENT WATTLE ENDS 12" BEHIND ONE ANOTHER AND SECURELY TIE TOGETHER.
3. COMPACT EXCAVATED SOIL AND TRENCHES TO PREVENT UNDERCUTTING. ADDITIONAL STAKING MAY BE NECESSARY TO PREVENT UNDERCUTTING.
4. INSTALL WATTLE PERPENDICULAR TO FLOW ALONG CONTOURS.
5. WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RAINFALL PRODUCES RUNOFF, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
6. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 8-01.3(15).
7. REFER TO STANDARD SPECIFICATION 8-01.3(16) FOR REMOVAL.

**3 WATTLE INSTALLATION ON SLOPE**

NOT TO SCALE  
WSDOT STD PLAN I-30-30.01

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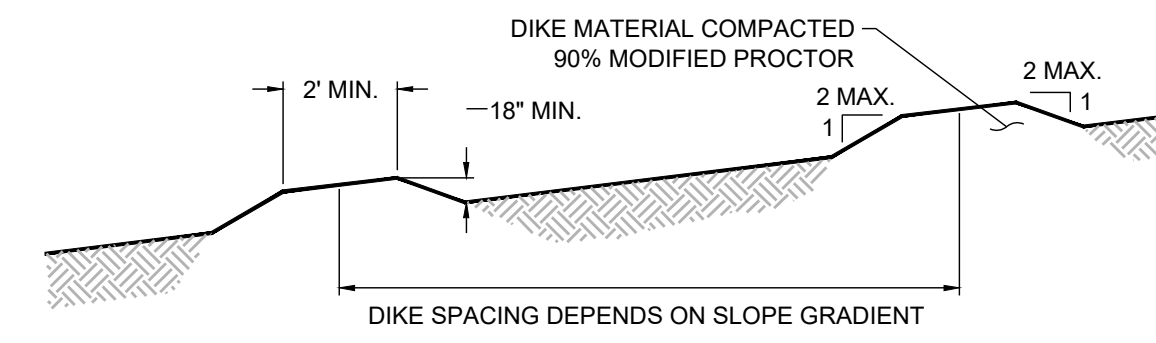
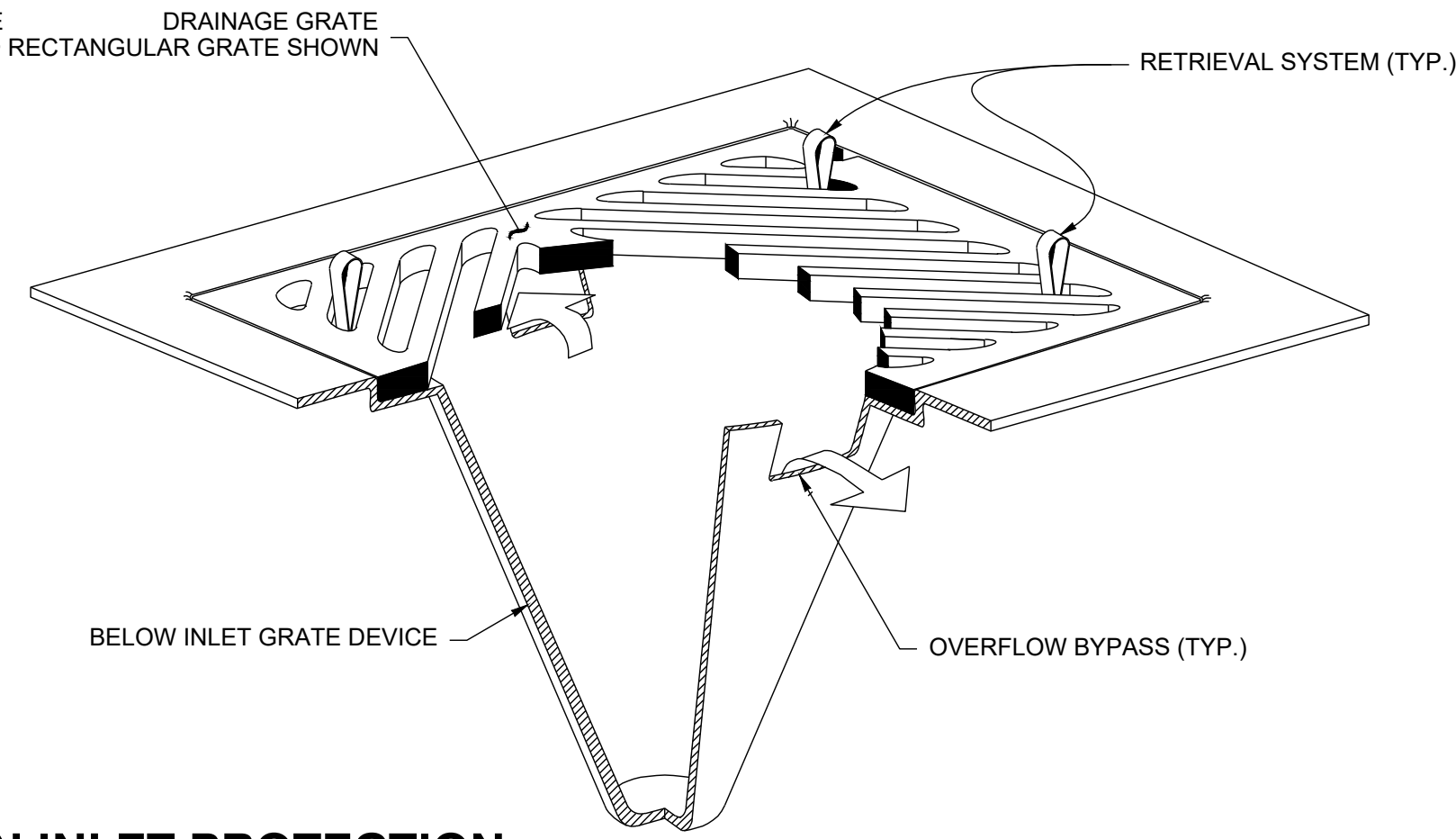
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**STORM DRAIN INLET PROTECTION**

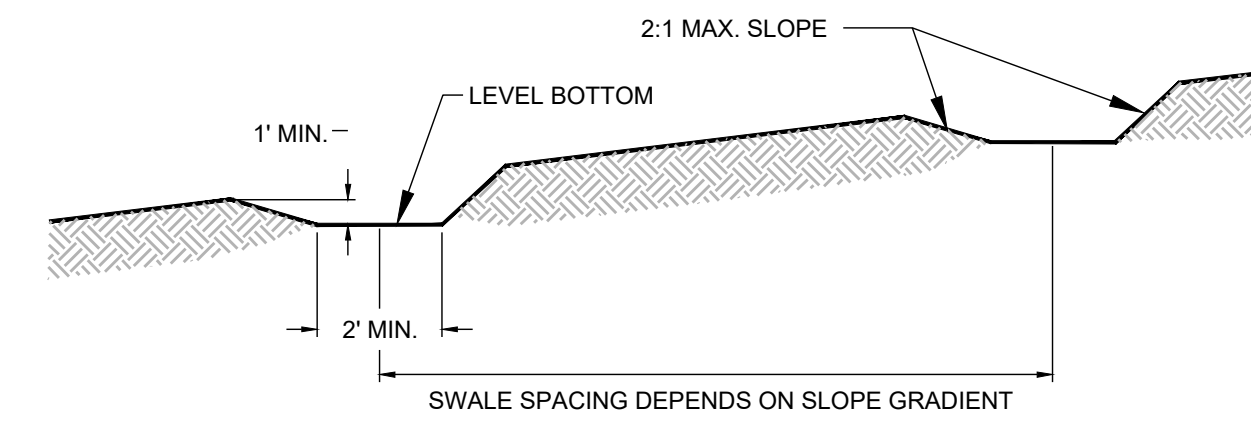
NOT TO SCALE

WSDOT STD PLAN I-40.20-00

1. SIZE THE BELOW INLET GRATE DEVICE (BIGD) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
2. THE BIGD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BIGD WITHOUT SPILLING THE COLLECTED MATERIAL.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION 8-01.3(15).



**INTERCEPTOR DIKE**



**INTERCEPTOR SWALE**

1. REPAIR DAMAGE RESULTING FROM RUNOFF OR CONSTRUCTION ACTIVITY.
2. PROJECT CESEL SHALL INSPECT AND MODIFY AS REQUIRED TO RETAIN CONSTRUCTION RUNOFF ONSITE.

2

**TEMP INTERCEPTOR SWALE AND DIKES**

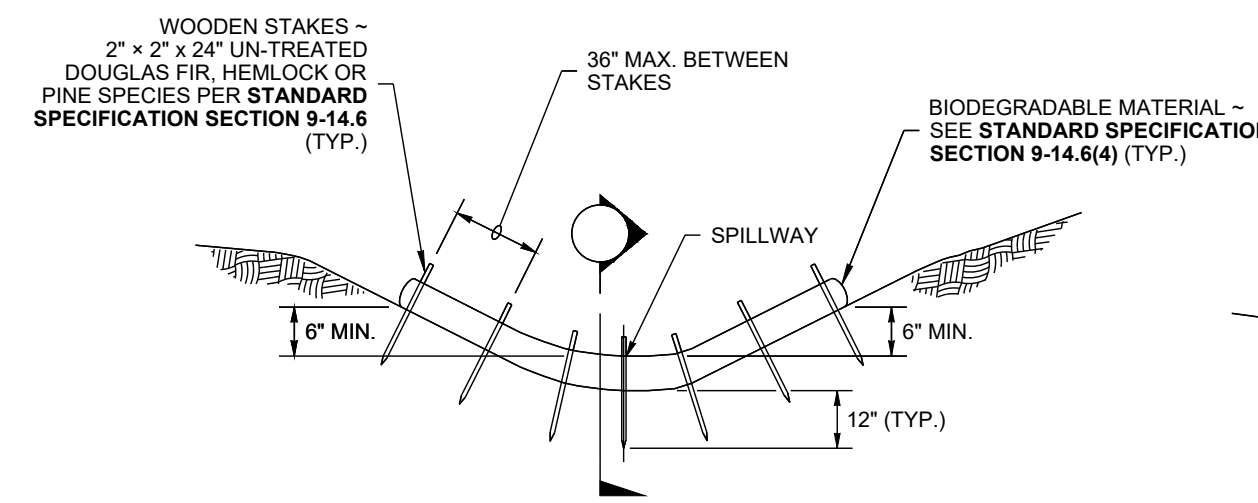
NOT TO SCALE

**GENERAL NOTES**

1. CHECK DAMS SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTIONS 8-01.3(6) AND 9-14.6(4).
2. IN CHANNELS, INSTALL THE SLOPED ENDS OF THE CHECK DAM A MINIMUM OF 8" HIGHER THAN THE SPILLWAY TO ENSURE WATER FLOWS OVER THE DAM AND NOT AROUND IT.
3. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 8-01.3(15).
4. REMOVE CHECK DAMS IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 8-01.3(16).

**BIODEGRADABLE CHECK DAM NOTE**

1. BIODEGRADABLE CHECK DAMS MAY NEED ADDITIONAL OR MODIFIED STAKING TO PREVENT UNDERCUTTING OR SCOURING.



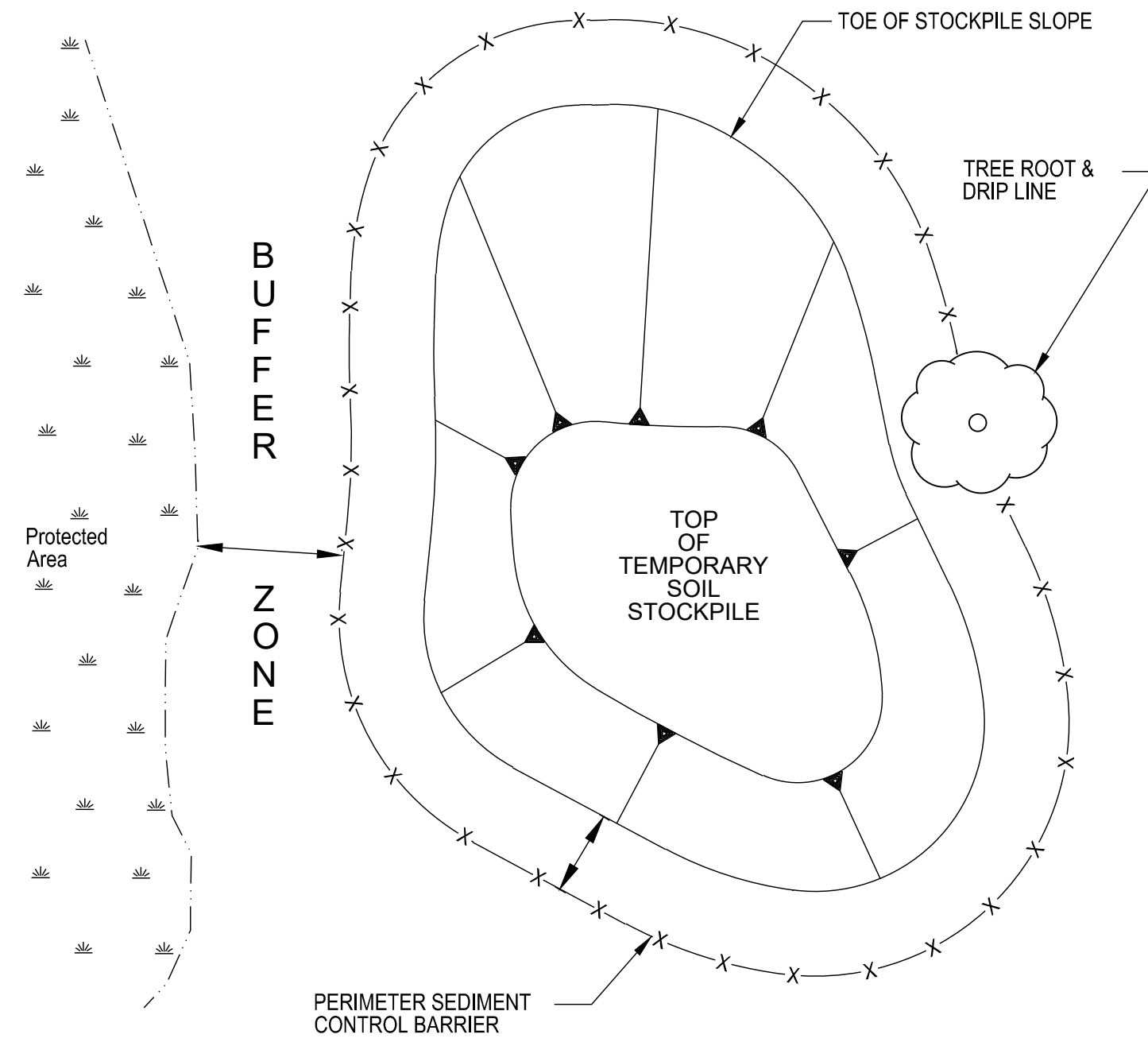
**BIODEGRADABLE CHECK DAM**

4

**TEMP CHECK DAM**

NOT TO SCALE

WSDOT STD PLAN I-50.20-02



**NOTES:**

1. STOCKPILE SLOPES SHOULD BE BASED ON ANGLE OF REPOSE OF THE SOIL MATERIAL TO AVOID POTENTIAL SLOUGHING OF THE SLOPE.
2. SOIL STOCKPILE TO BE STABILIZED IN ACCORDANCE WITH PRACTICAL STANDARDS.
3. DO NOT LOCATE STOCKPILE WITHIN OVERLAND DRAINAGE FLOW PATH, DESIGNATED FLOODWAYS, DRIP LINE OR OVER THE ROOT CROWN OF ADJACENT TREES.
4. PROVISIONS FOR SEDIMENT CONTROL PRACTICES MAY BE REQUIRED ALONG HAUL ROADS AND ENTRANCE/EXIT LOCATIONS FOR ACCESS TO THE SOIL STOCKPILE THAT CAN CREATE FLOW PATH FOR STORMWATER RUNOFF.
5. INSTALLATION OF BENCHES, TERRACES, OR SLOPE INTERRUPTERS SHOULD BE CONSIDERED.
6. AVOID BUILDING SOIL STOCKPILES ON IMPERVIOUS SURFACES.
7. LINEAR SEDIMENT TRAP SURROUNDING THE STOCKPILE BASE MAY BE USED TO CONTROL SEDIMENT.

3

**TEMPORARY SOIL STOCKPILING**

NOT TO SCALE

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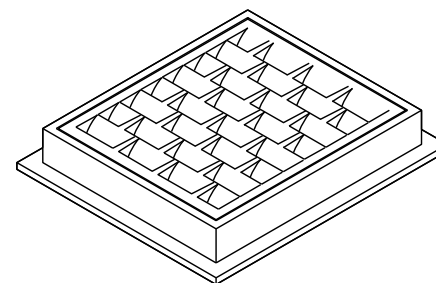
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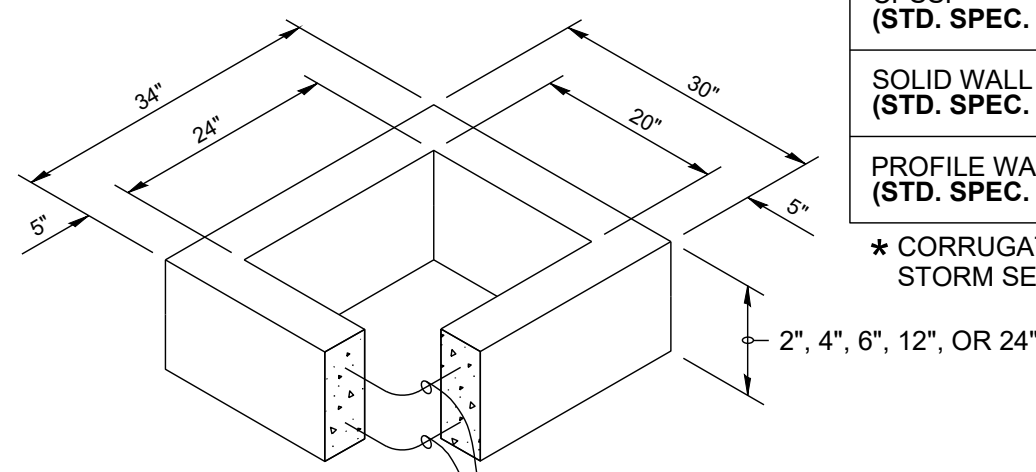
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**C-902**

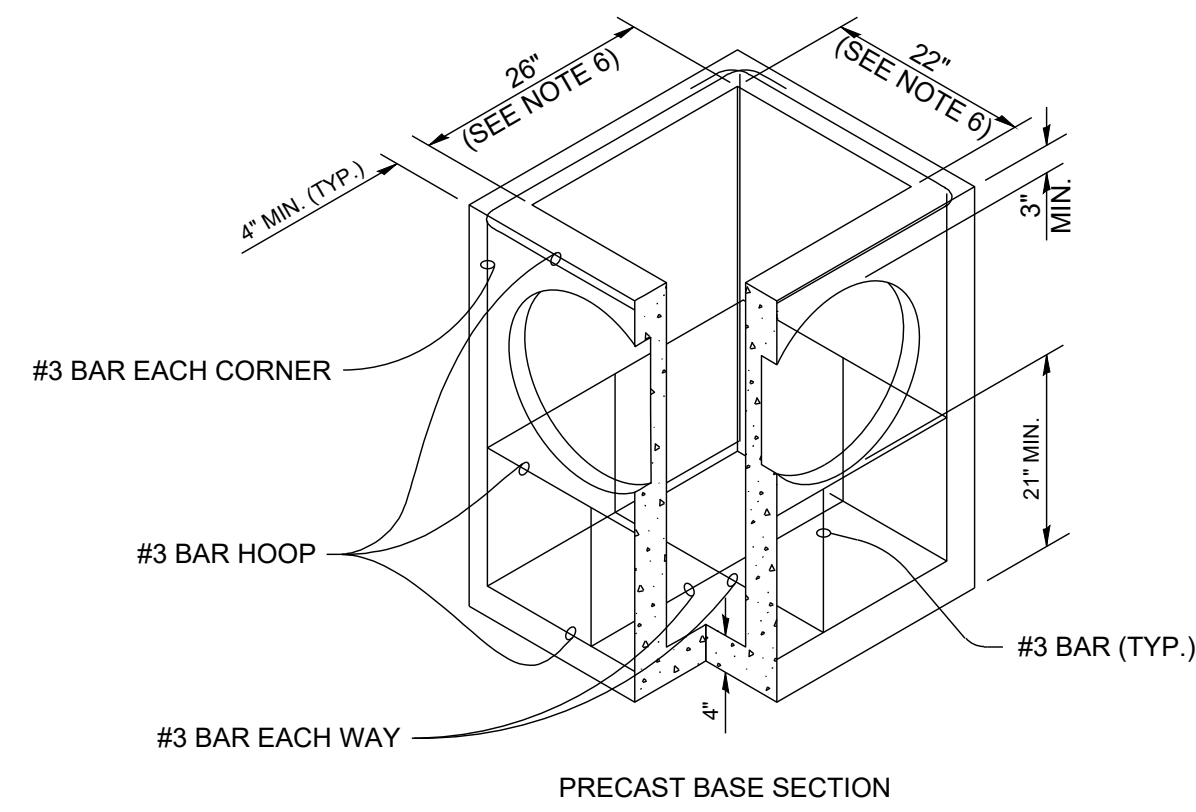




FRAME AND VANED GRATE

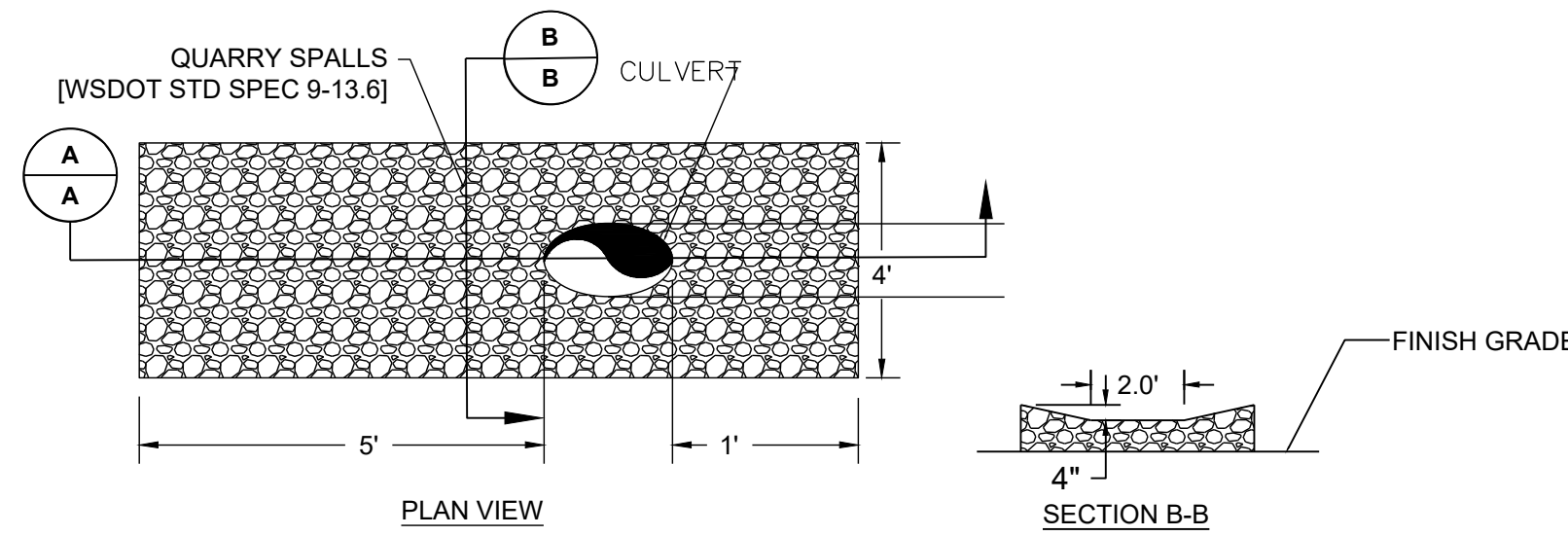


RECTANGULAR ADJUSTMENT SECTION



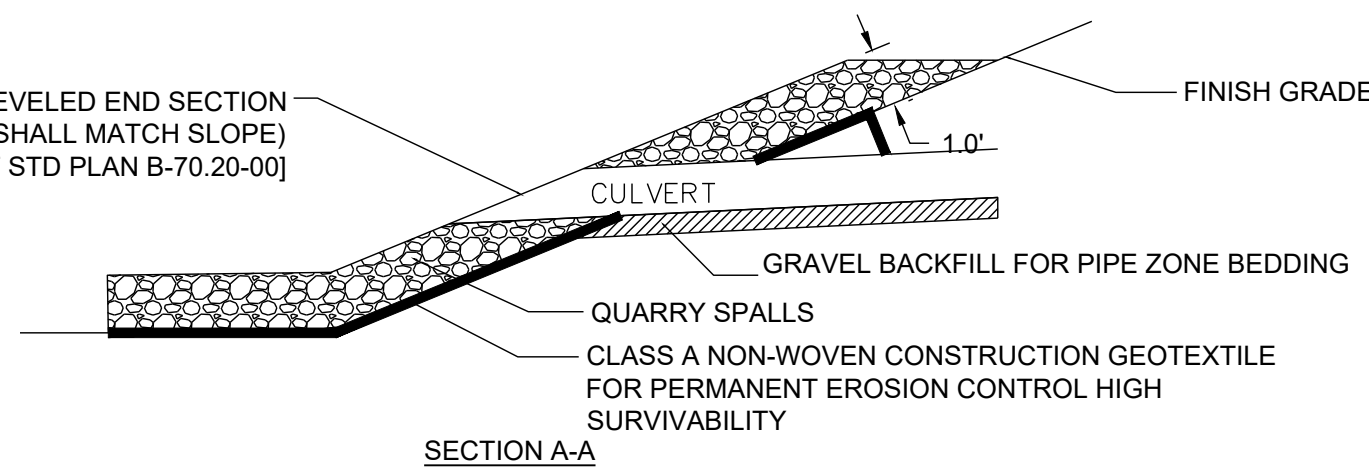
PRECAST BASE SECTION

**TYPE 1 CATCH BASIN**  
SCALE: NOT TO SCALE



PLAN VIEW

SECTION B-B



SECTION A-A

**OUTLET PROTECTION**  
SCALE: NOT TO SCALE

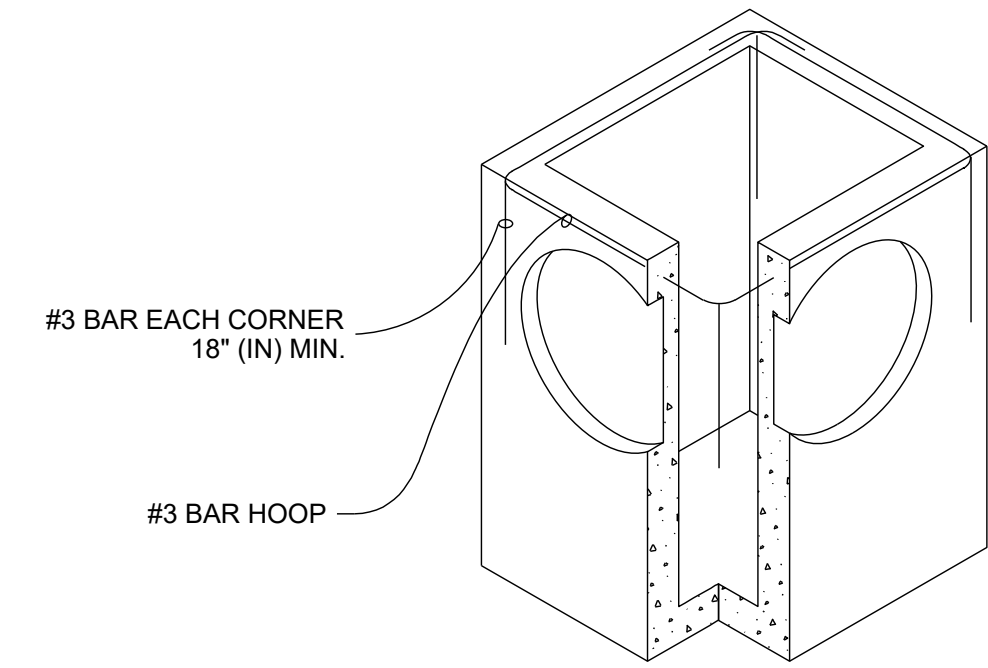
SCALE: NOT TO SCALE

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP * (STD. SPEC. SECT. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))	15"

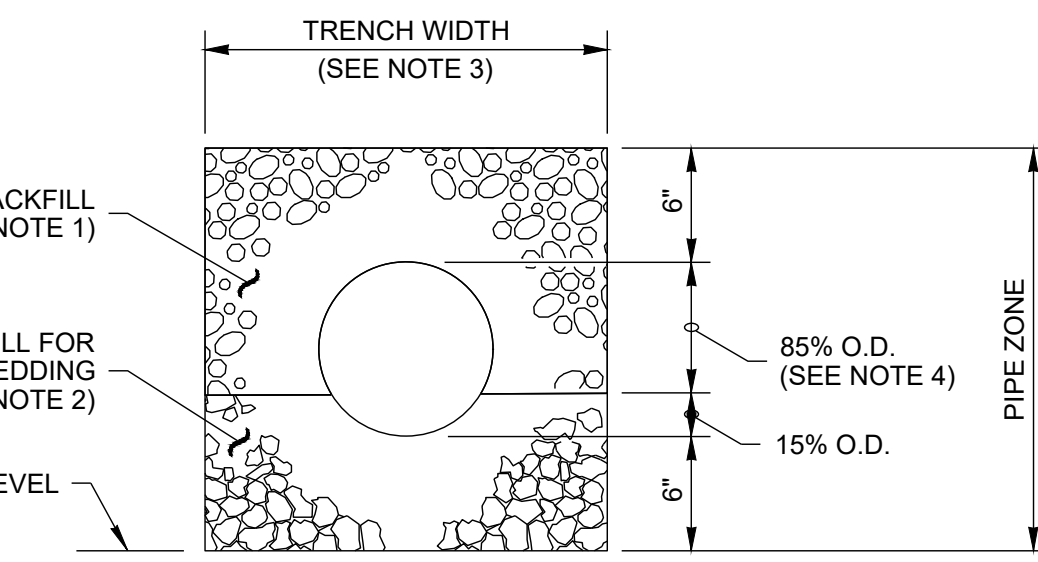
\* CORRUGATED POLYETHYLENE STORM SEWER PIPE

NOTES

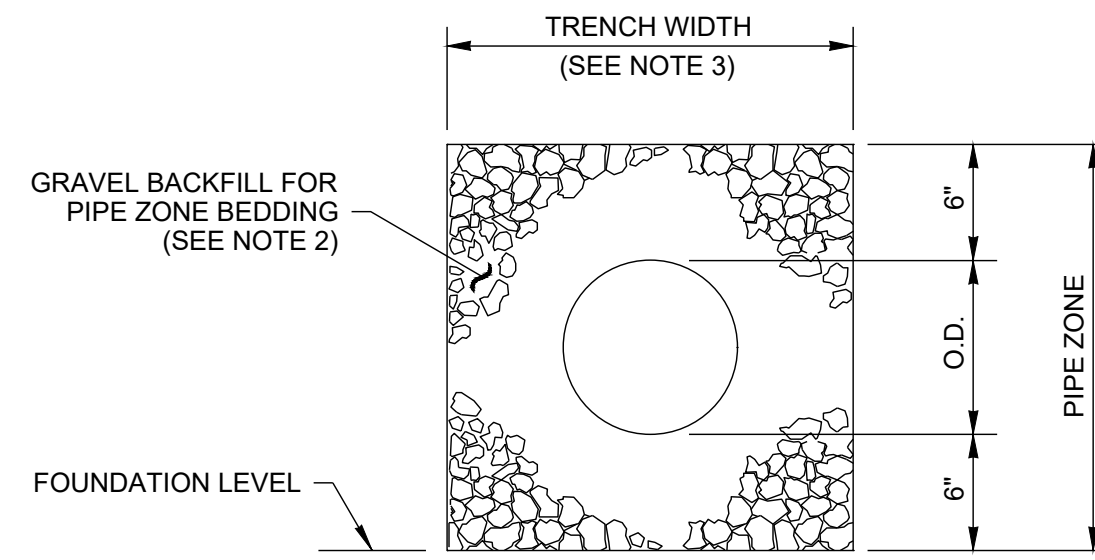
- AS ACCEPTABLE ALTERNATIVES TO THE REBAR SHOWN IN THE PRECAST BASE SECTION, FIBERS (PLACED ACCORDING TO THE STANDARD SPECIFICATIONS), OR WIRE MESH HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT SHALL BE USED WITH THE MINIMUM REQUIRED REBAR SHOWN IN THE ALTERNATIVE PRECAST BASE SECTION. WIRE MESH SHALL NOT BE PLACED IN THE KNOCKOUTS.
- THE KNOCKOUT DIAMETER SHALL NOT BE GREATER THAN 20" (IN). KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" (IN) MINIMUM TO 2.5" (IN) MAXIMUM. PROVIDE A 1.5" (IN) MINIMUM GAP BETWEEN THE KNOCKOUT WALL AND THE OUTSIDE OF THE PIPE. AFTER THE PIPE IS INSTALLED, FILL THE GAP WITH JOINT MORTAR IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 9-04.3.
- THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE LOWEST PIPE INVERT SHALL BE 5' (FT).
- THE FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE DOWN, OR INTEGRALLY CAST INTO THE ADJUSTMENT SECTION WITH FLANGE UP.
- THE PRECAST BASE SECTION MAY HAVE A ROUNDED FLOOR, AND THE WALLS MAY BE SLOPED AT A RATE OF 1:24 OR STEEPER.
- THE OPENING SHALL BE MEASURED AT THE TOP OF THE PRECAST BASE SECTION.
- ALL PICKUP HOLES SHALL BE GROUTED FULL AFTER THE BASIN HAS BEEN PLACED.



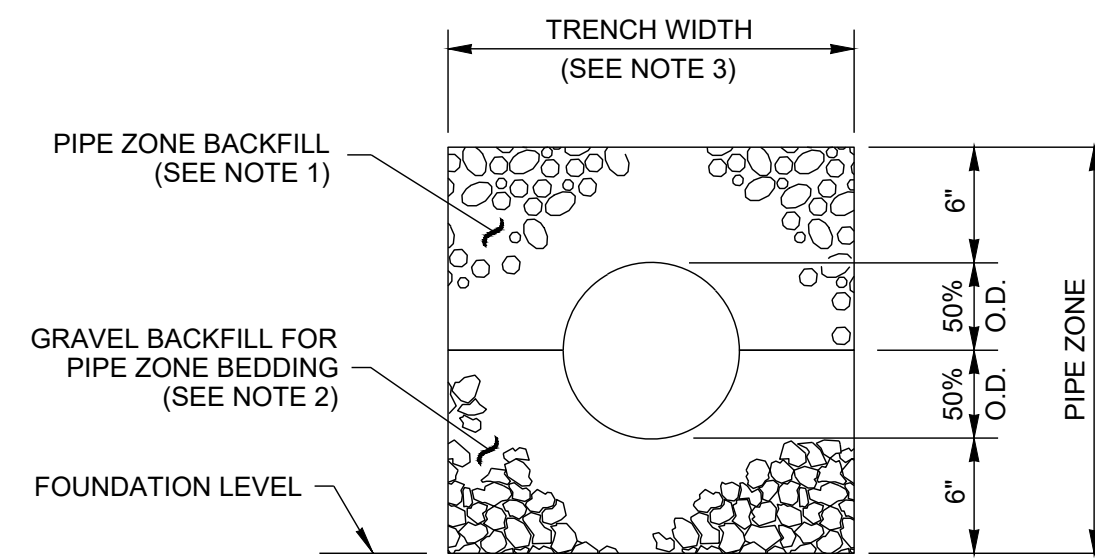
ALTERNATIVE PRECAST BASE SECTION



CONCRETE AND DUCTILE IRON PIPE



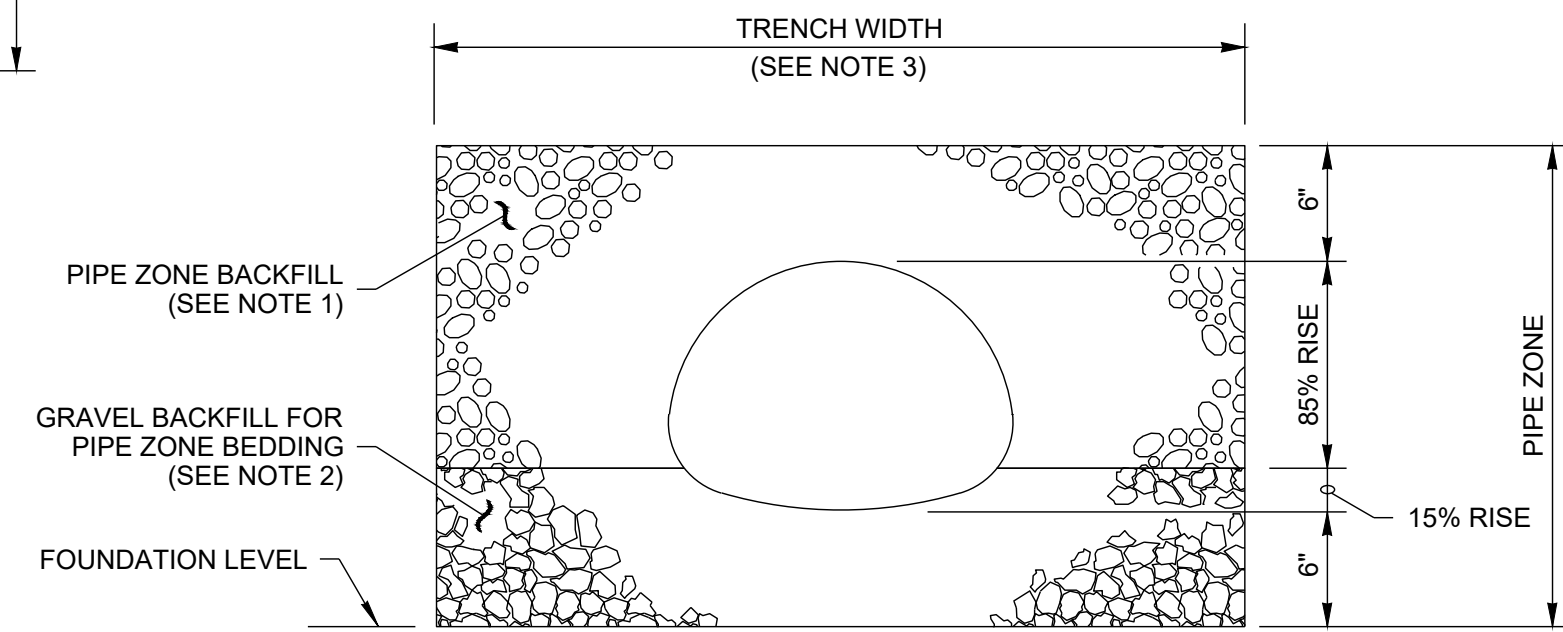
THERMOPLASTIC PIPE



METAL AND STEEL RIB REINFORCED POLYETHYLENE PIPE

NOTES

- SEE STANDARD SPECIFICATIONS SECTION 7-08.3(3) FOR PIPE ZONE BACKFILL.
- SEE STANDARD SPECIFICATIONS SECTION 9-03.12(3) FOR GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
- SEE STANDARD SPECIFICATIONS SECTION 2-09.4 FOR MEASUREMENT OF TRENCH WIDTH.
- FOR SANITARY SEWER INSTALLATION, CONCRETE PIPE SHALL BE BEDDED TO SPRING LINE.

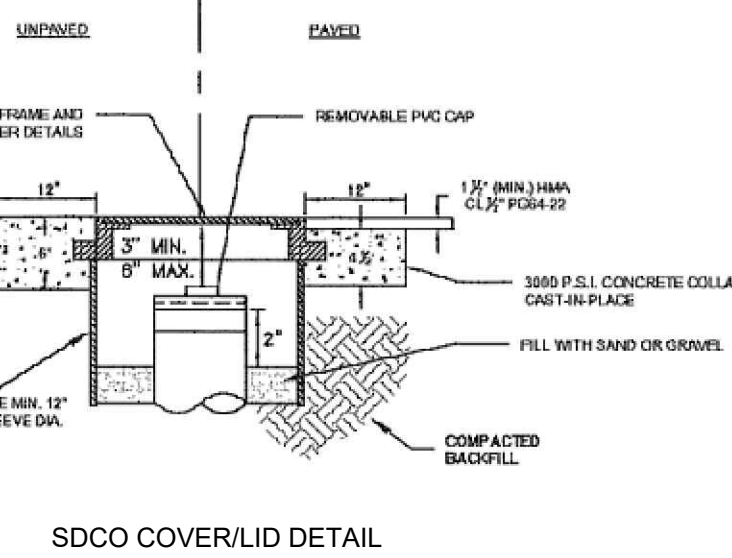
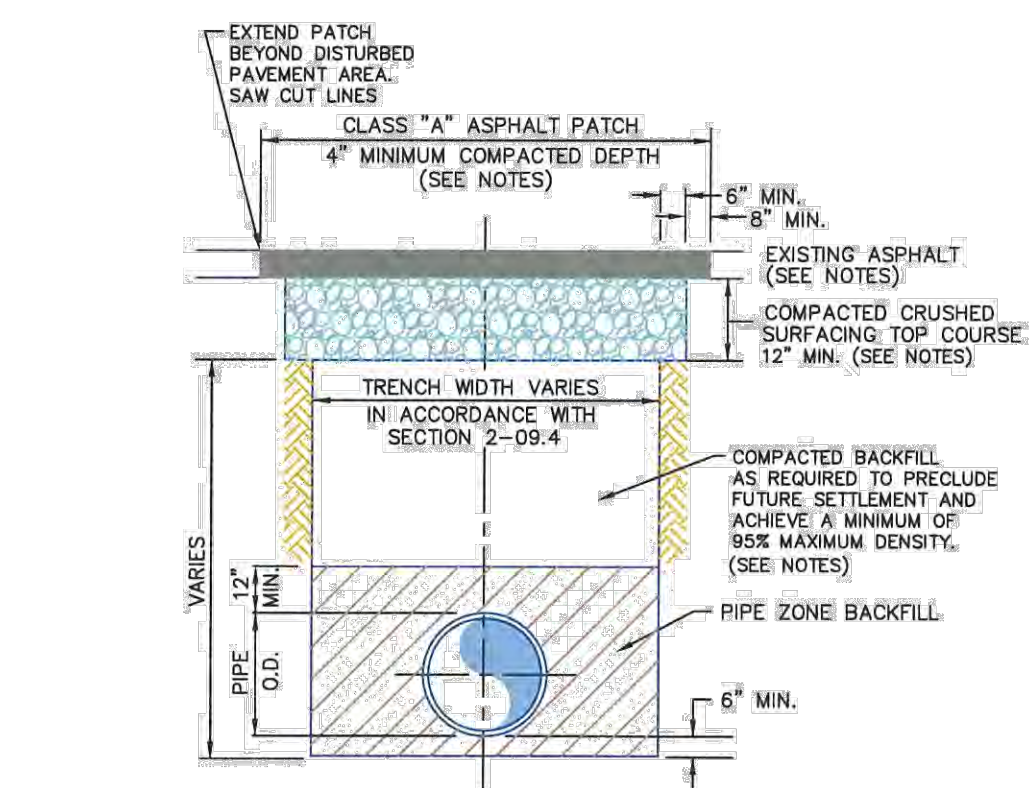


PIPE ARCHES

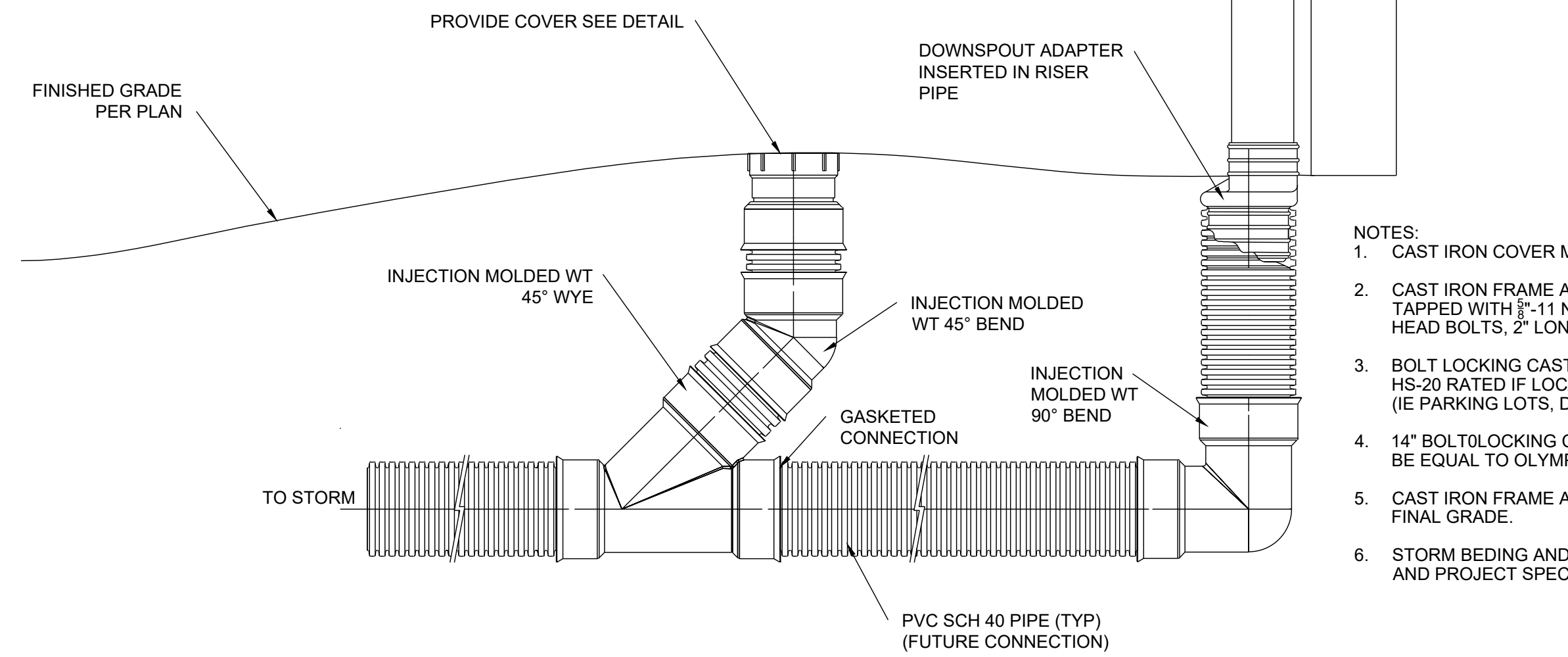
CLEARANCE BETWEEN PIPES FOR MULTIPLE INSTALLATIONS		
PIPE	SIZE	MINIMUM DISTANCE BETWEEN BARRELS
CIRCULAR PIPE (DIAMETER)	UP TO 48"	24"
METAL PIPE ARCH (SPAN)	48" AND LARGER	DIAMETER/2 OR 36" WHICHEVER IS LESS

**PIPE ZONE BEDDING AND BACKFILL**  
SCALE: NOT TO SCALE

SCALE: NOT TO SCALE



SDCO COVER/LID DETAIL



TYP. ROOF DRAIN DS CONNECTION

SCALE: N.T.S.

- HOT MIX ASPHALT SHALL BE PLACED IN TWO OR MORE LIFTS TO A MINIMUM TOTAL COMPACTED DEPTH OF FOUR INCHES OR MATCH THE EXISTING ASPHALT DEPTH (INCLUDING ANY BITUMINOUS LAYERS) WHICH EVER IS GREATER. EACH LIFT SHALL BE NO MORE THAN TWO INCHES MAXIMUM COMPACTED DEPTH. PORTLAND CEMENT CONCRETE STREETS SHALL BE PLACED TO A MINIMUM DEPTH OF SIX INCHES OF CLASS 3000 COMMERCIAL GRADE CONCRETE OR MATCH EXISTING DEPTH, WHICHEVER IS GREATER.
- IF PORTLAND CEMENT CONCRETE IS ENCOUNTERED UNDER EXISTING ASPHALT, THE CONTRACTOR SHALL REPLACE WITH SIX INCHES OF CLASS 3000 COMMERCIAL GRADE CONCRETE OR MATCH THE DEPTH OF THE EXISTING CONCRETE, WHICHEVER IS GREATER.
- SHOULD THE NUMBER OF CROSS TRENCHES (THOSE PERPENDICULAR TO THE DIRECTION OF THE ROADWAY) REPRESENTS MORE THAN ONE TRENCH PER 75 FEET OF THE STREET OF A GIVEN BLOCK AND THE TOTAL NUMBER OF TRENCHES EXCEEDS EIGHT, THE PERMITTEE SHALL BE REQUIRED TO OVERLAY THE EXISTING ROADWAY SURFACE IF THE ROADWAY IS LESS THAN FIVE YEARS OLD. THE OVERLAY DEPTH SHALL BE SPECIFIED BY THE CITY ENGINEER.
- IN THOSE CASES WHERE THE TRENCH IS GENERALLY RUNNING PARALLEL TO THE ROADWAY AND THE DISTANCE FROM THE EDGE OF THE ROADWAY IS LESS THAN FOUR FEET, THE CONTRACTOR SHALL REMOVE THE ROADWAY TO THE OUTER EDGE OF THE ROADWAY AND PAVE THIS AREA.
- ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW AND AFTER PLACEMENT OF TOP ROCK THE ROADWAY SHALL BE RE-CUT A DISTANCE OF EIGHT INCHES, OR GREATER AS DIRECTED BY THE CITY ENGINEER.
- COMPACTED CRUSHED SURFACING BASE COURSE SHALL BE USED FOR BACKFILL IN ALL TRANSVERSE CROSSING TRENCHES.

**TRENCH REPAIR CONSTRUCTION NOTES**

SCALE: NOT TO SCALE

250 Simon Street SE  
East Wenatchee, WA 98802  
Phone: 509.884.2962  
Fax: 509.884.2814  
www.erlandsen.com



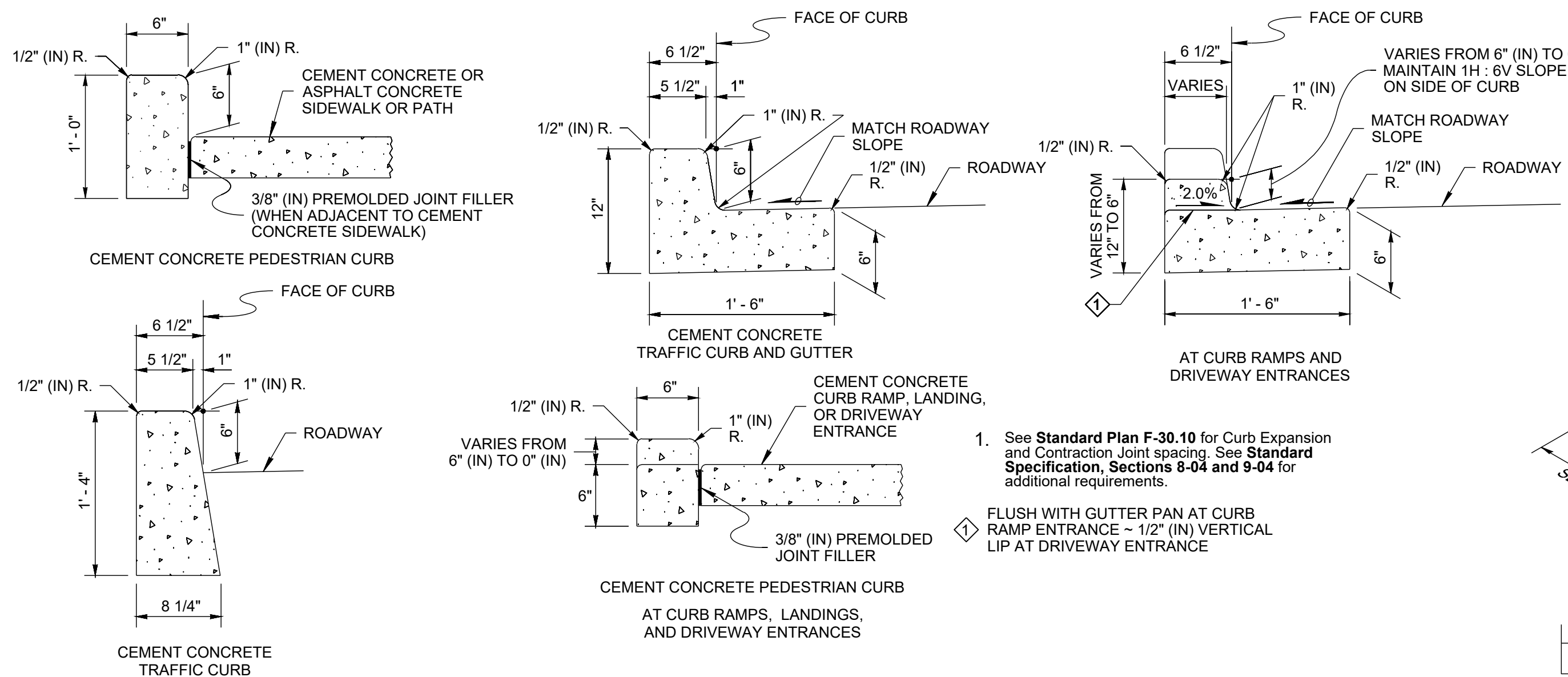
**CHELSEAN COUNTY**  
**OLDS STATION CAMPUS**  
WENATCHEE, WASHINGTON 98801  
425 OHME GARDEN ROAD

**The DOH Associates, PS**  
**ARCHITECTS and PLANNERS**  
7 N Wenatchee Ave Suite 500, Wenatchee, Washington 98801  
Telephone (509) 662-4781 Facsimile (509) 663-3253

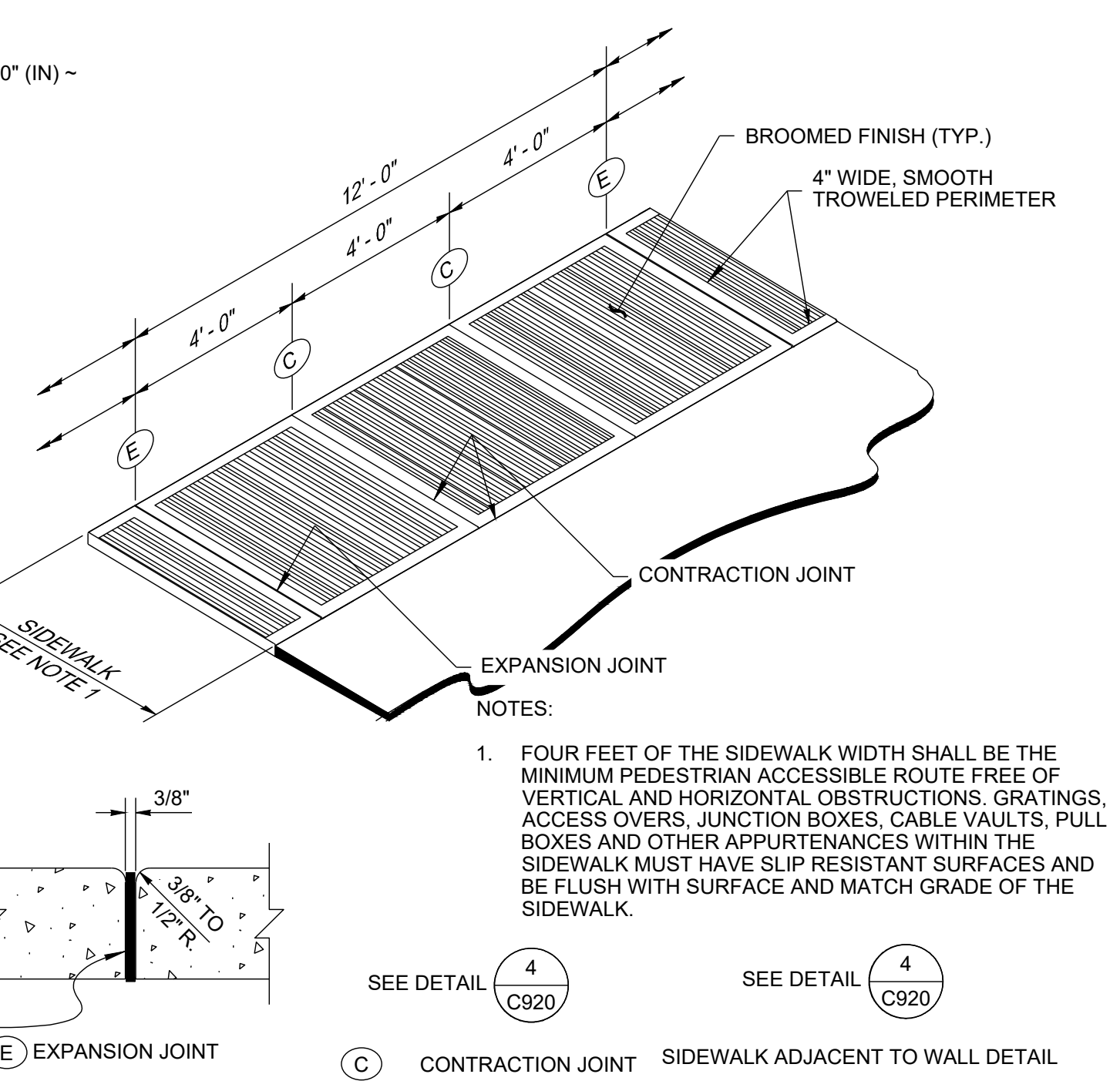
BID SET: 1/6/2025  
Job: 2344 Date: 1/6/2025  
DWG ID - 20240220

**C-910**





**1 CEMENT CONCRETE CURBS**  
SCALE: NOT TO SCALE

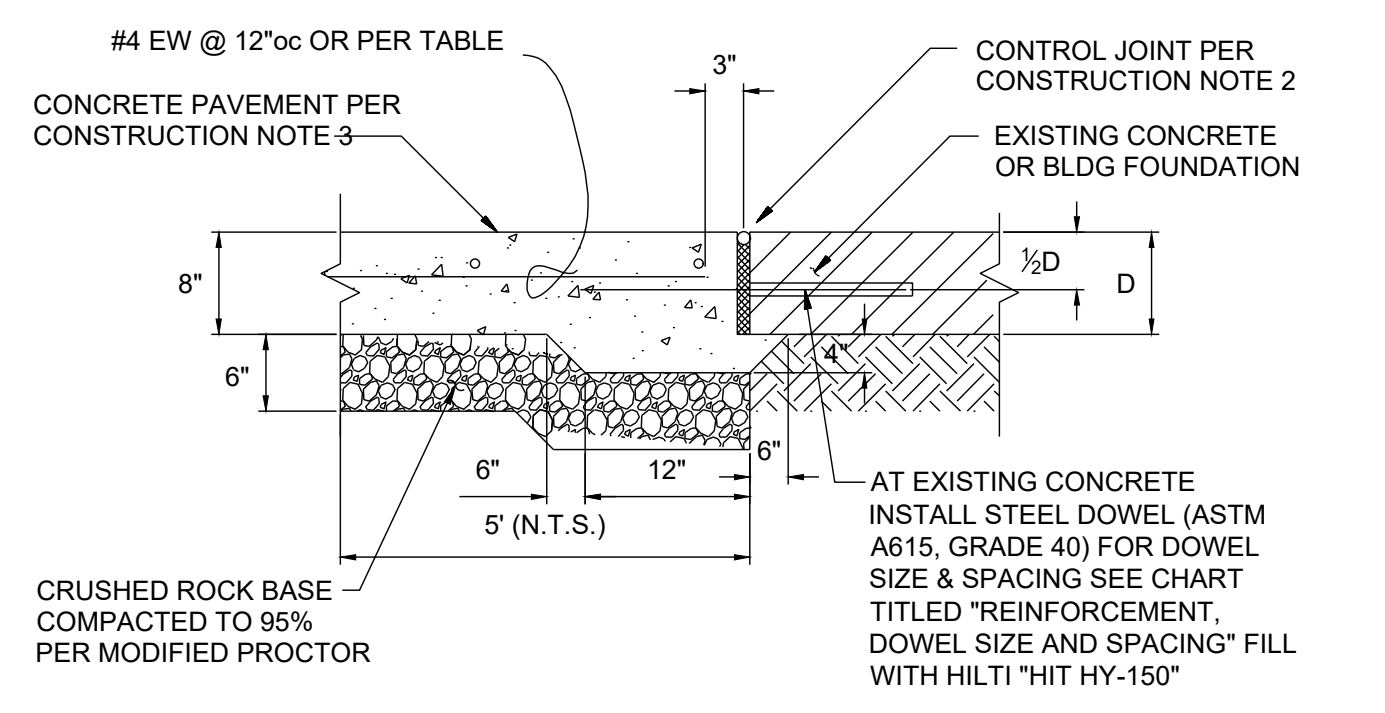


**2 CEMENT CONCRETE SIDEWALK**  
NOT TO SCALE  
WSDOT STD PLAN F-30.10-03

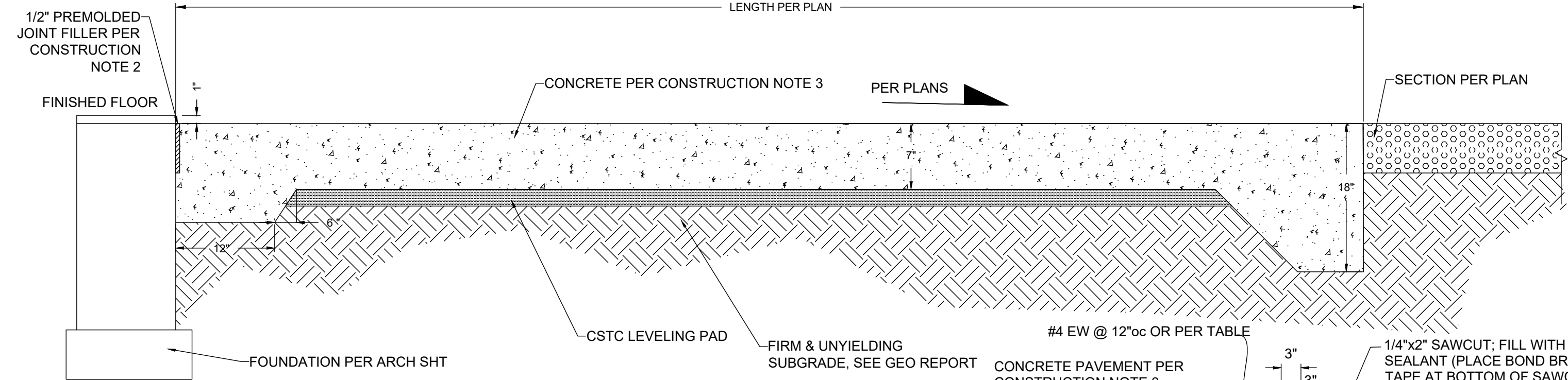
- CONCRETE PAVEMENT JOINT CONSTRUCTION NOTES:**
1. JOINT SEALANTS FOR SAWED CONSTRUCTION JOINTS: JOINT SEALANTS SHALL MEET THE REQUIREMENTS OF AASHTO M173 CONCRETE JOINT SEALER, SEAL TIGHT SAFE SEAL 3405 OR EQUIVALENT.
  2. JOINT SEALANT FOR OTHER CONCRETE CONTROL JOINTS: JOINTS SHALL HAVE A 3/4" THICK PRE MOLDED FILLER CONFORMING TO THE SPECIFICATIONS FOR "PRE FORMED EXPANSION JOINT FOR CONCRETE PAVING AND STRUCTURE CONSTRUCTION" AASHTO M213 EXCEPT THE REQUIREMENT FOR WATER ABSORPTION, WHICH IS DELETED. THE JOINT ABOVE THE FILLER SHALL BE SEALED WITH A TWO-PART URETHANE JOINT SEALER CONFORMING TO ASTM C920 FOR USE IN VEHICLE TRAFFIC AREA. DIMENSIONS OF SEALER SHALL BE IN ACCORDANCE WITH THE SEALER MANUFACTURER'S RECOMMENDATIONS.
  3. CONCRETE TO MEET SPECIFICATIONS FROM GEOTECHNICAL ENGINEERING EVALUATION. SEE TYPICAL CONCRETE PAVEMENT SECTION THIS SHEET FOR REINFORCEMENT.
  4. DOWEL ADHESIVE: THE ADHESIVE FOR BONDING REINFORCEMENT AND THREADED RODS TO EXISTING CONCRETE SHALL BE HIT HY-150 ADHESIVE AS MANUFACTURED BY HILTI FASTENING SYSTEMS. DRILL HOLES AND INSTALL ADHESIVE AND DOWELS OR THREADED ROD IN ACCORDANCE WITH THE ADHESIVE MANUFACTURER'S RECOMMENDATIONS.

SLAB DEPTH (INCHES)	DOWEL DIAMETER (INCHES)	TOTAL DOWEL LENGTH (INCHES)	DOWEL SPACING CENTER TO CENTER (INCHES)	DRILLED HOLE SIZE (INCHES)	SLAB REINFORCEMENT
5-6	3/4	2'-0"	12	7/8	#3 @ 10" OC EW
7-8	1	2'-0"	12	1 1/8	#4 @ 12" OC EW
9-11	1 1/4	2'-0"	12	1 3/8	#4 @ 10" OC EW

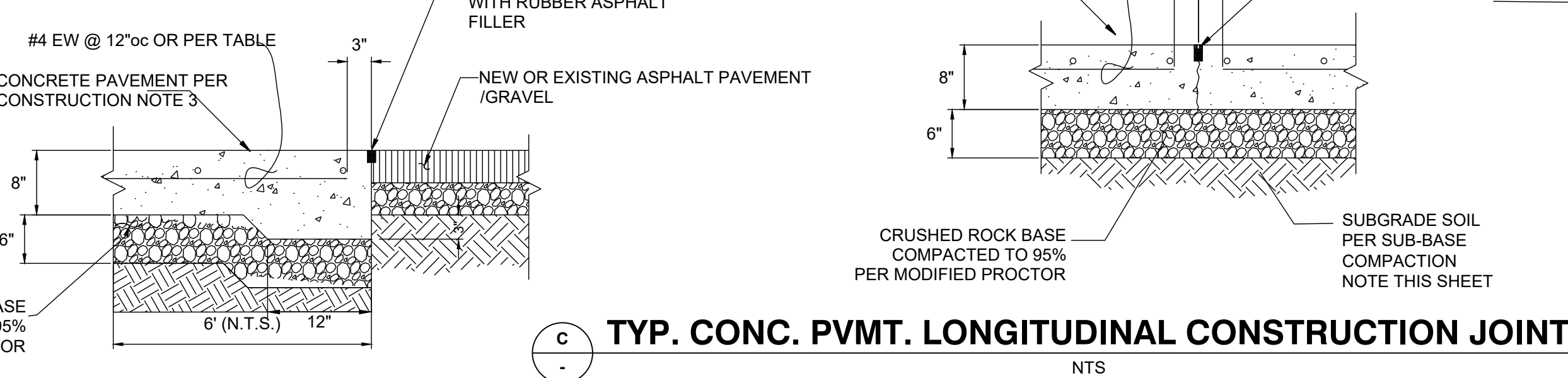
\* DOWEL EMBEDMENT LENGTH IS 12"



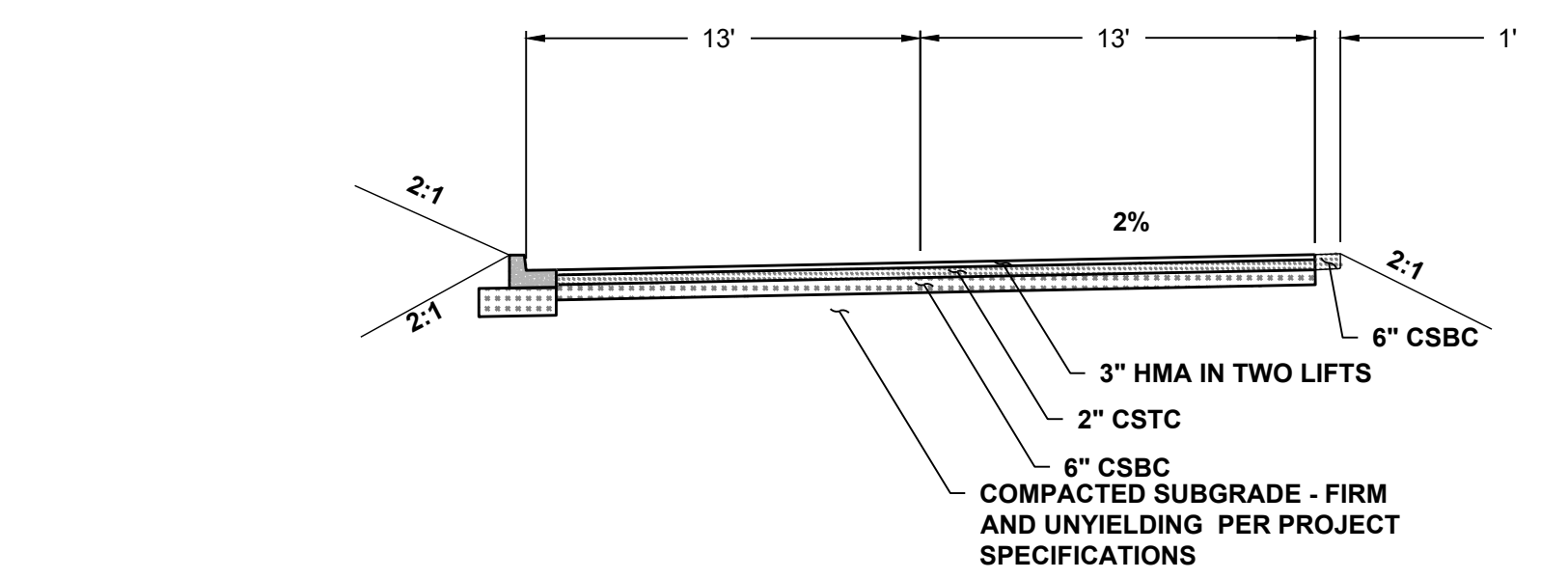
**3 CONCRETE PVMT. TYP. PERIMETER JOINT**  
NTS



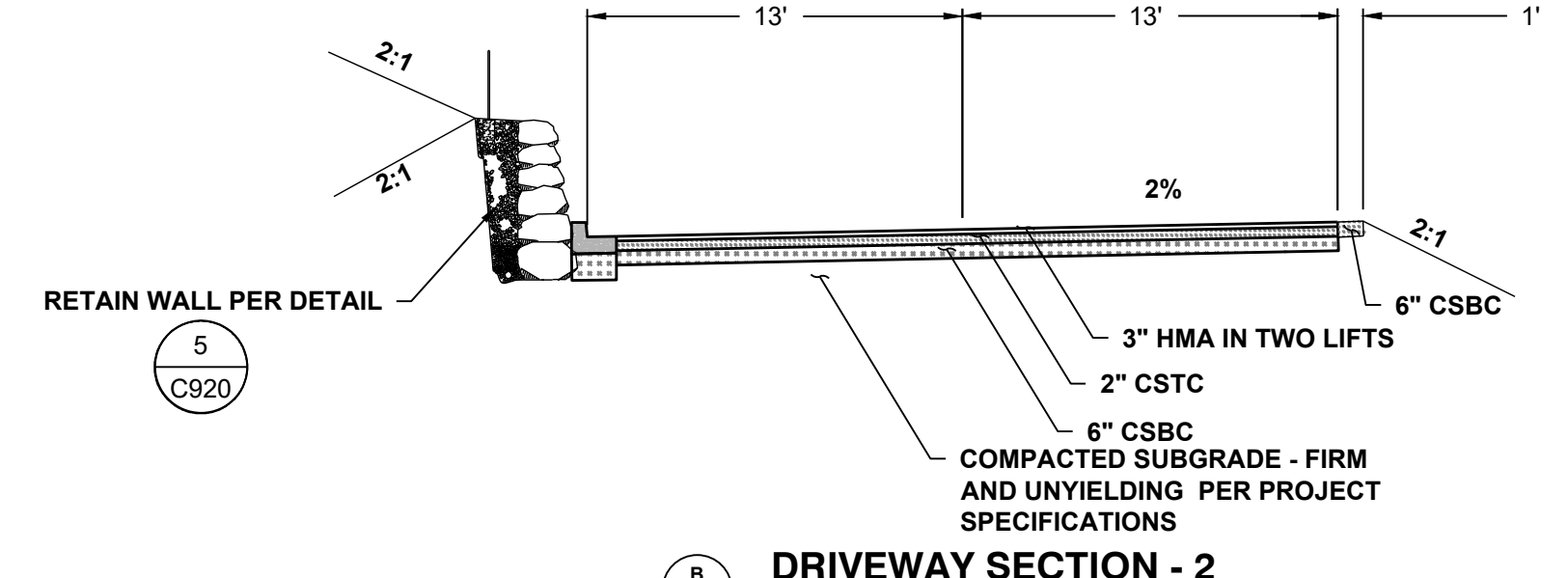
**B TYP. CONC. PVMT. PERIMETER JOINT AT ASPHALT PAVEMENT**  
NTS



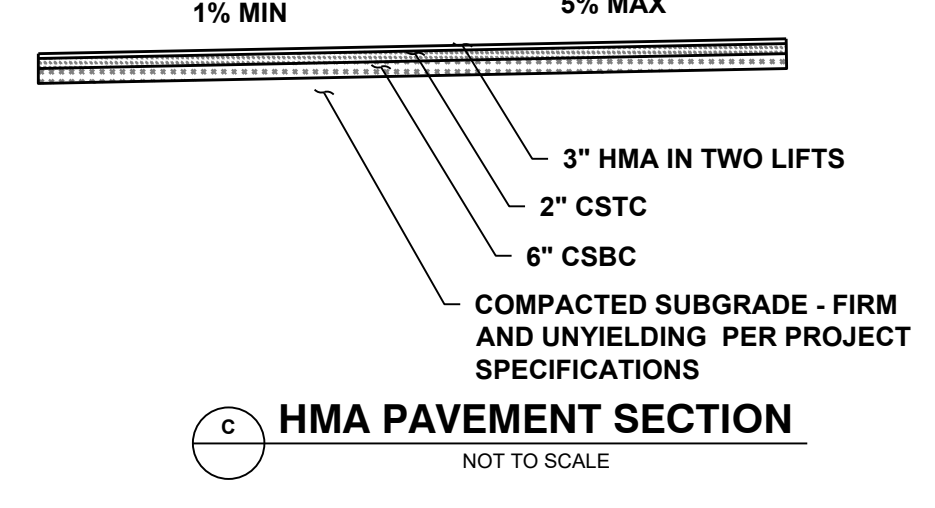
**4 CONCRETE SIDEWALK/PAVEMENT**  
SCALE: N.T.S.



**A DRIVEWAY SECTION - 1**  
NOT TO SCALE

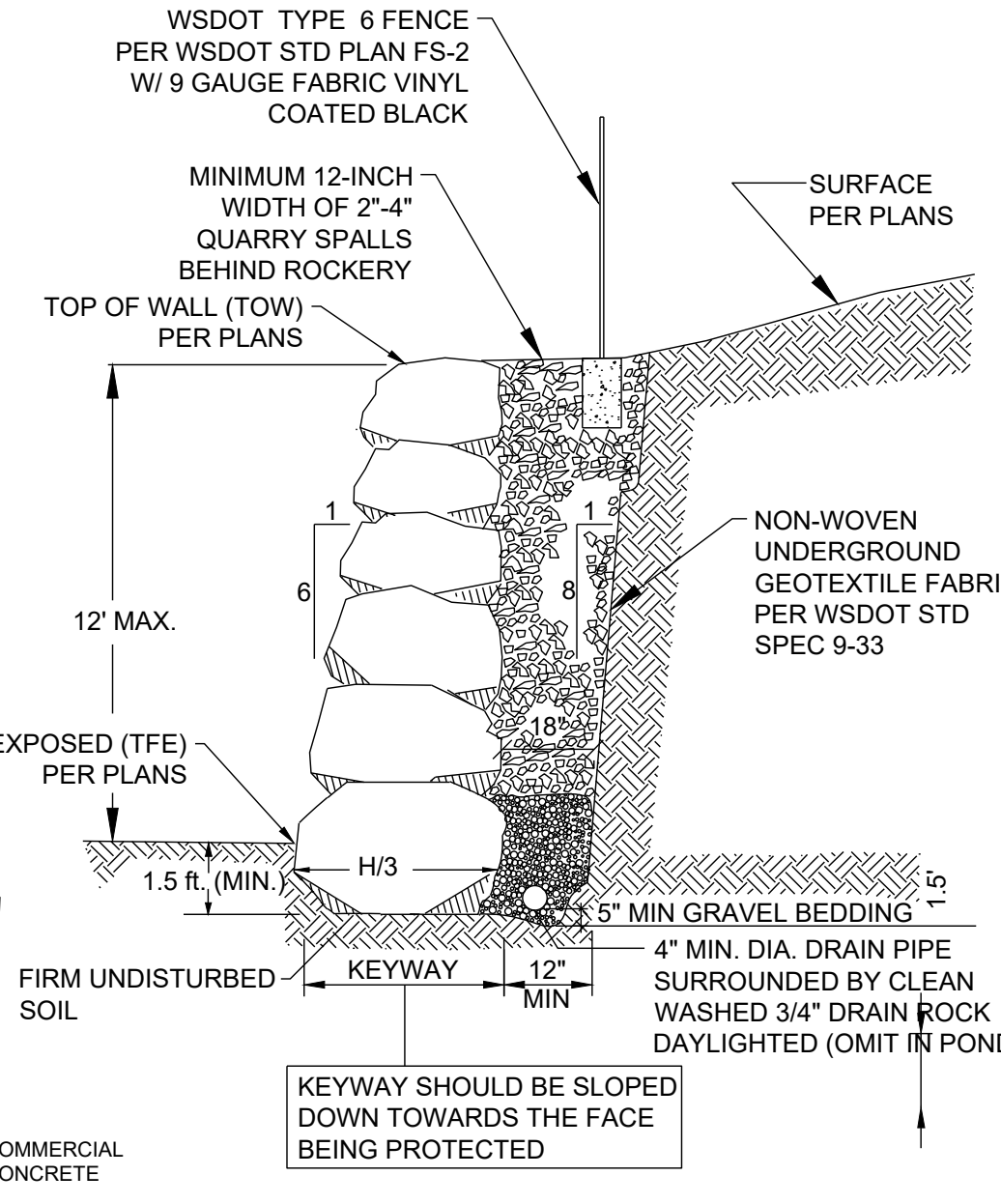


**B DRIVEWAY SECTION - 2**  
NOT TO SCALE



**C HMA PAVEMENT SECTION**  
NOT TO SCALE

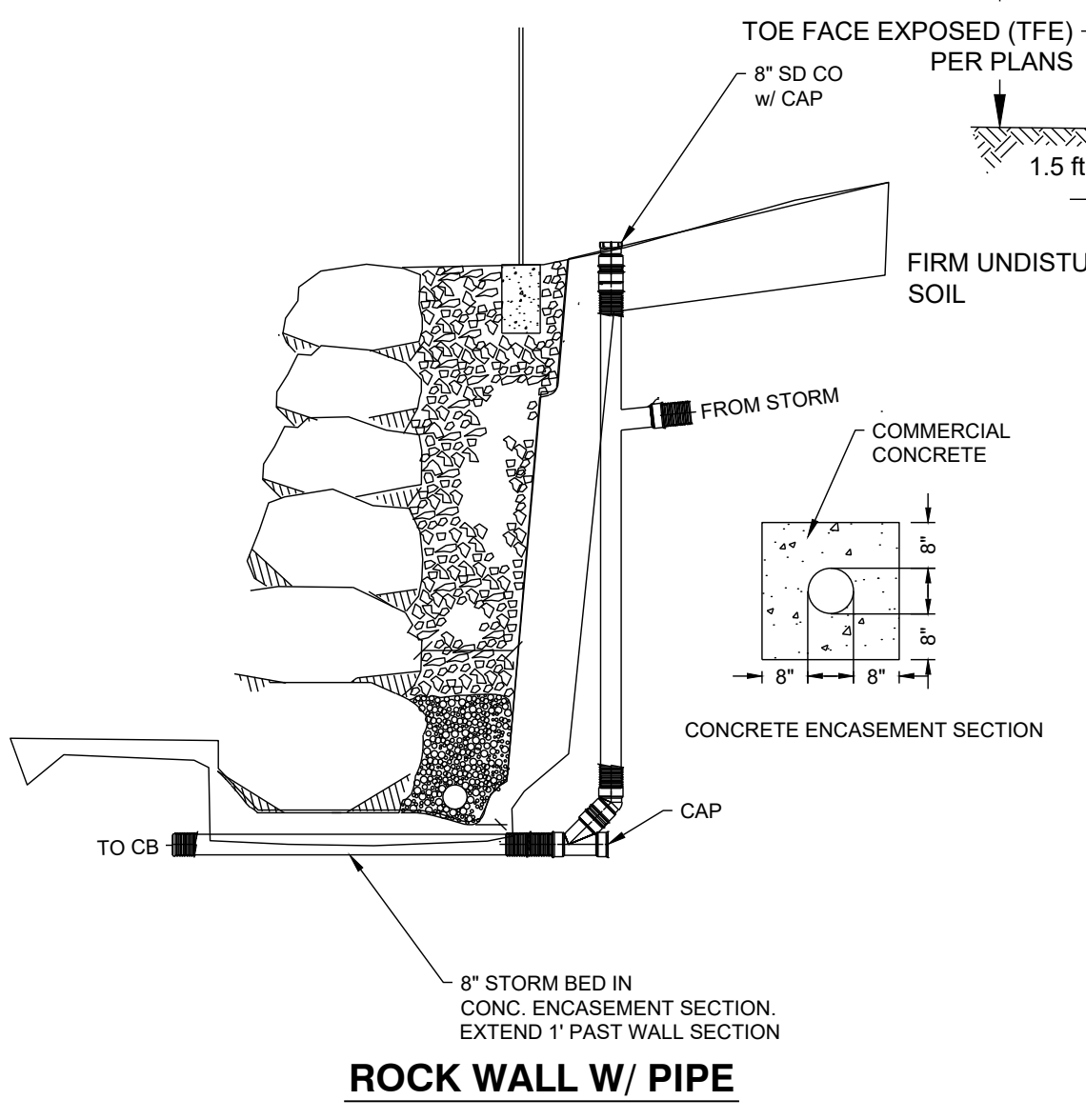
**3 PAVEMENT SECTIONS**  
NOT TO SCALE



**ROCK WALL STD**

1. ROCKERY SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL STANDARDS, AND WSDOT STD SPEC 8-24.3(1).
2. ROCK SHALL BE SOUND AND HAVE A MINIMUM DENSITY OF 160 POUNDS PER CUBIC FOOT MEETING WSDOT STD SPEC. 9-13.7. ROCKS WEIGHING LESS THAN 100 POUNDS SHALL NOT BE USED.
3. A MINIMUM 18" THICKNESS OF BACKFILL FOR ROCK WALL PER WSDOT STD SPEC 9-13.7(2) SHALL BE PLACED BETWEEN THE ROCKERY AND THE CUT FACE, WITH A 4" DIA PERFORATED DRAIN PIPE INSTALLED AT THE BASE OF THE ROCKERY AS SHOWN.
4. EXPOSED SLOPE SHOULD BE VEGETATED OR HYDROSEEDED FOLLOWING COMPLETION TO REDUCE THE POTENTIAL FOR EROSION.
5. IF THE ROCKERY IS TERRACED, THE HIGHER SHALL BE SET BACK FROM THE LOWER ROCKERY A DISTANCE AT LEAST EQUAL TO THE HEIGHT OF THE LOWER ROCKERY.
6. ROCKERY HEIGHTS SHALL BE NO TALLER THAN 12 FEET FOR CUT ROCKERIES.
7. ROCKERIES 4' AND OVER IN HEIGHT REQUIRE A PERMIT AND INSPECTION (UBC SEC 3317.1) WHICH AT A MINIMUM SHALL CONSIST OF INSPECTION AND EVALUATION OF SUB GRADE, PLACEMENT OF BASE COURSE AND DRAINAGE, AND FINISHED ROCKERY.
8. ALL CAP ROCKS MUST BE SECURE AND NOT ABLE TO BE DISLODGED BY HAND. (SET TOP ROW IN CEMENT GROUT APPROX. 1-INCH THICK)

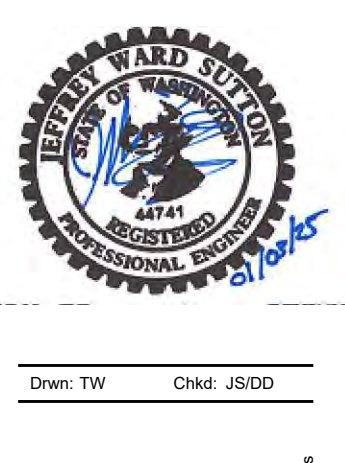
HEIGHT	BOTTOM SIZES	TOP SIZES
4' MAX.	4-MAN ROCK (2,000#-4,000#)	1,2-MAN ROCK (50#-700#)
6' MAX.	5-MAN ROCK (4,000#-6,000#)	1,2,3-MAN ROCK (50#-2,000#)
8' MAX.	5-MAN ROCK (6,000#-8,000#)	2,3,4-MAN ROCK (450#-3,000#)
10' MAX.	6-MAN ROCK (6,000#-8,000#)	5,4-MAN ROCK (2,000#-6,000#)
12' MAX.	6-MAN ROCK (6,000#-8,000#)	5,4-MAN ROCK (2,000#-6,000#)



**ROCK WALL W/ PIPE**

**5 ROCK WALL**  
NOT TO SCALE

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**Erlandsen**  
SURVEYING | PLANNING | ENGINEERING

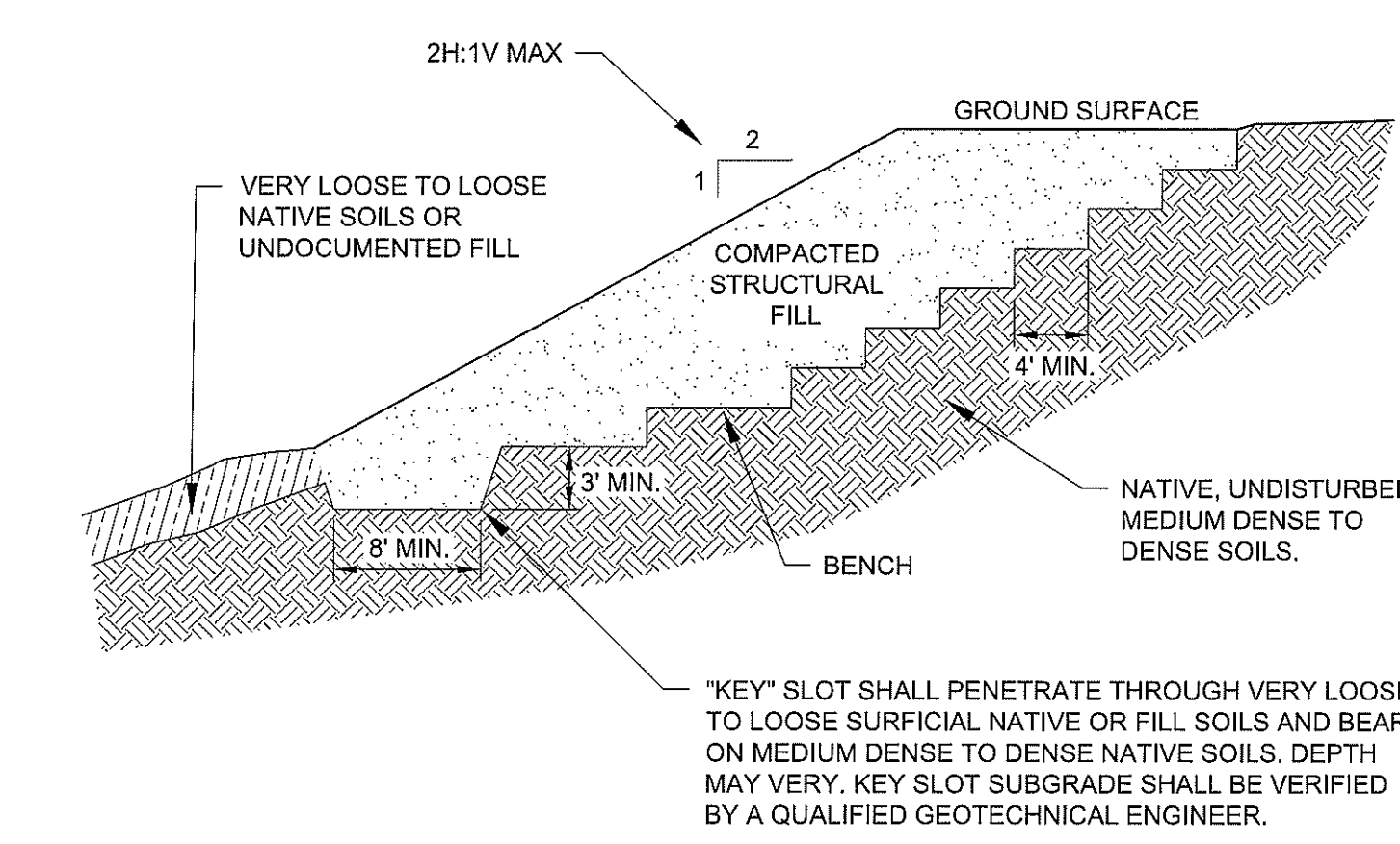
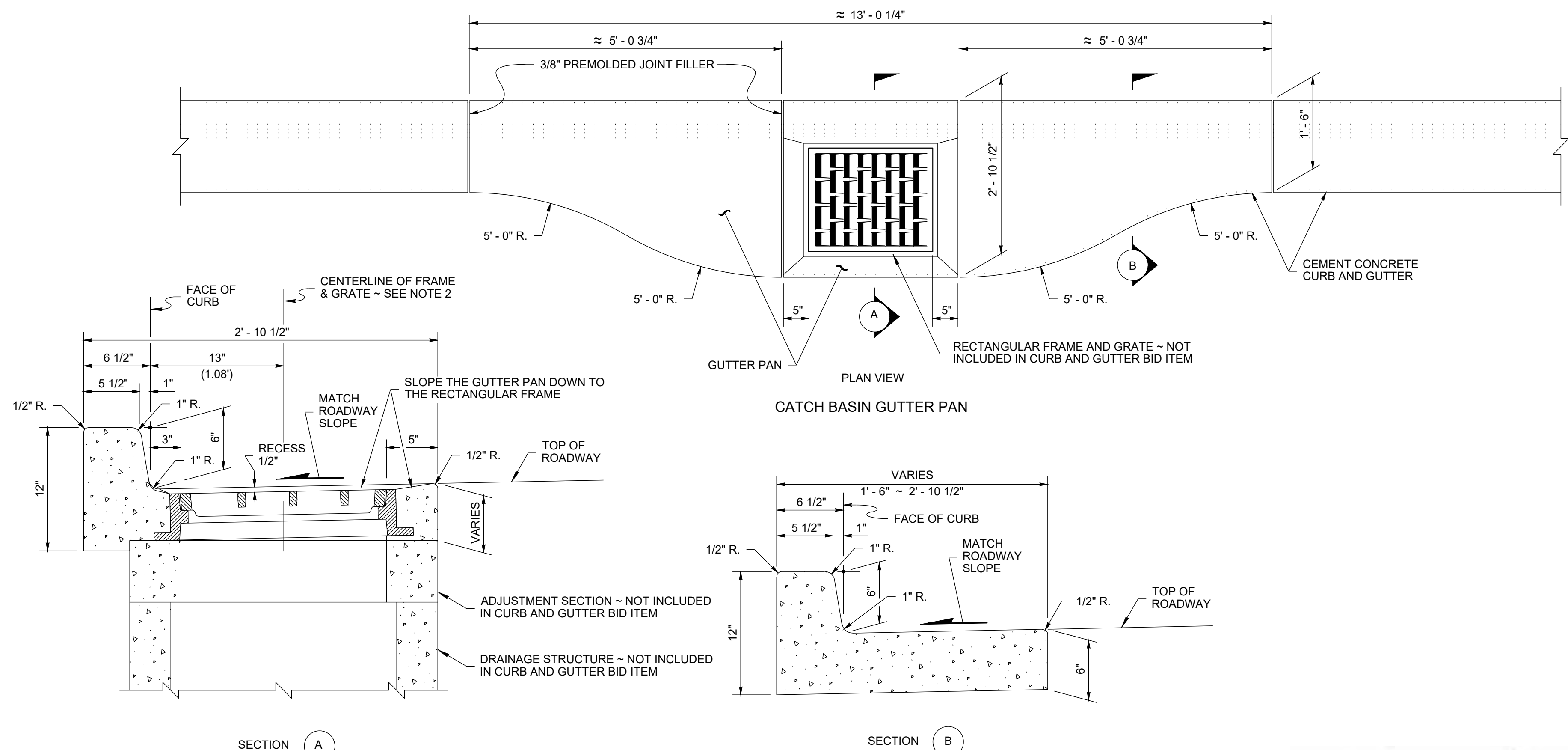
**CHELLEAN COUNTY**  
**OLDS STATION CAMPUS**  
WENATCHEE, WASHINGTON 98801  
425 OHME GARDEN ROAD

**The DOH Associates, PS**  
**ARCHITECTS and PLANNERS**  
7 N Wenatchee Ave Suite 500, Wenatchee, Washington 98801  
Telephone (509) 662-4781 Facsimile (509) 663-3253

BID SET: 1/6/2025  
Job: 2344 Date: 1/6/2025  
DWG ID - 20240220

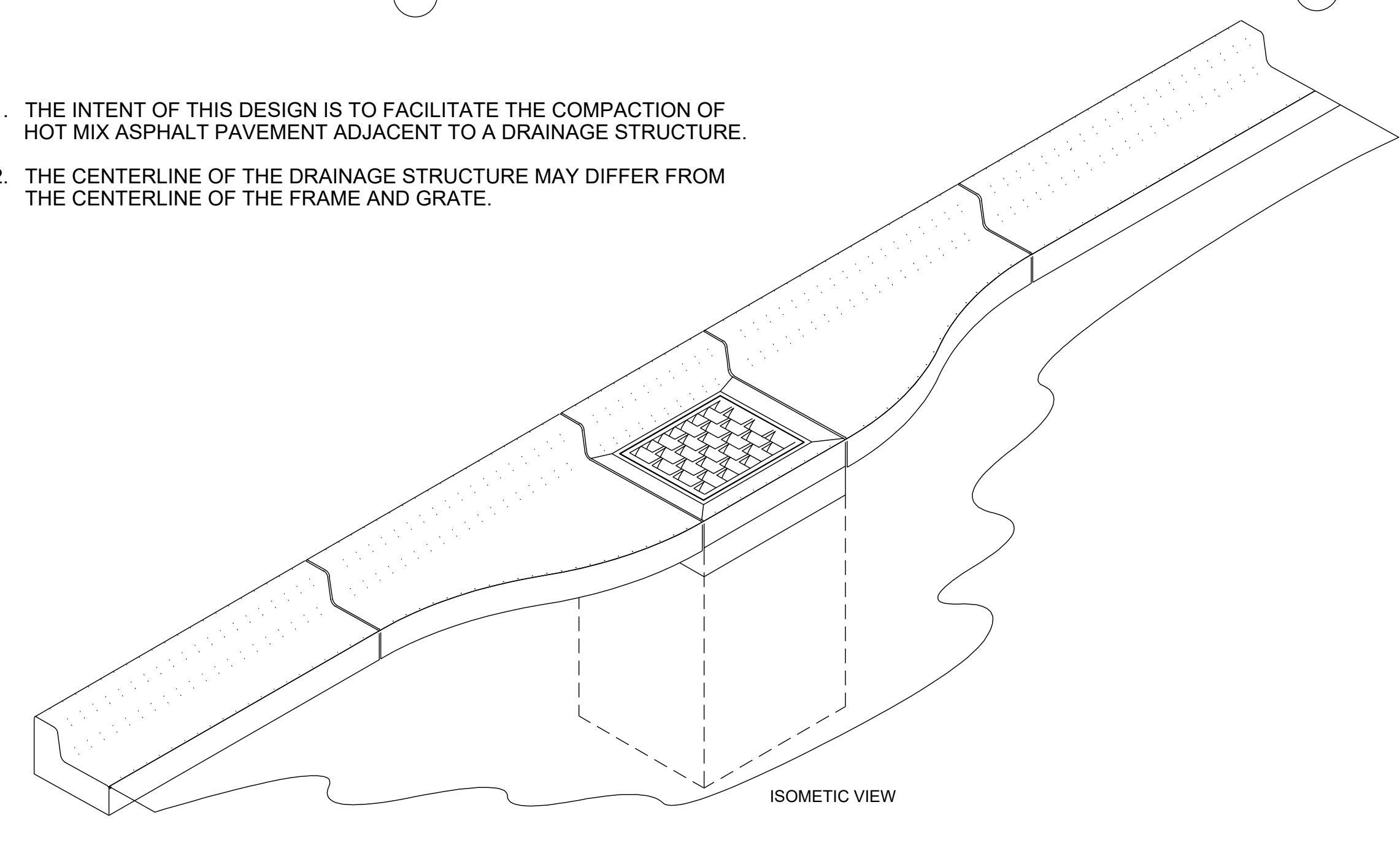
**C-920**



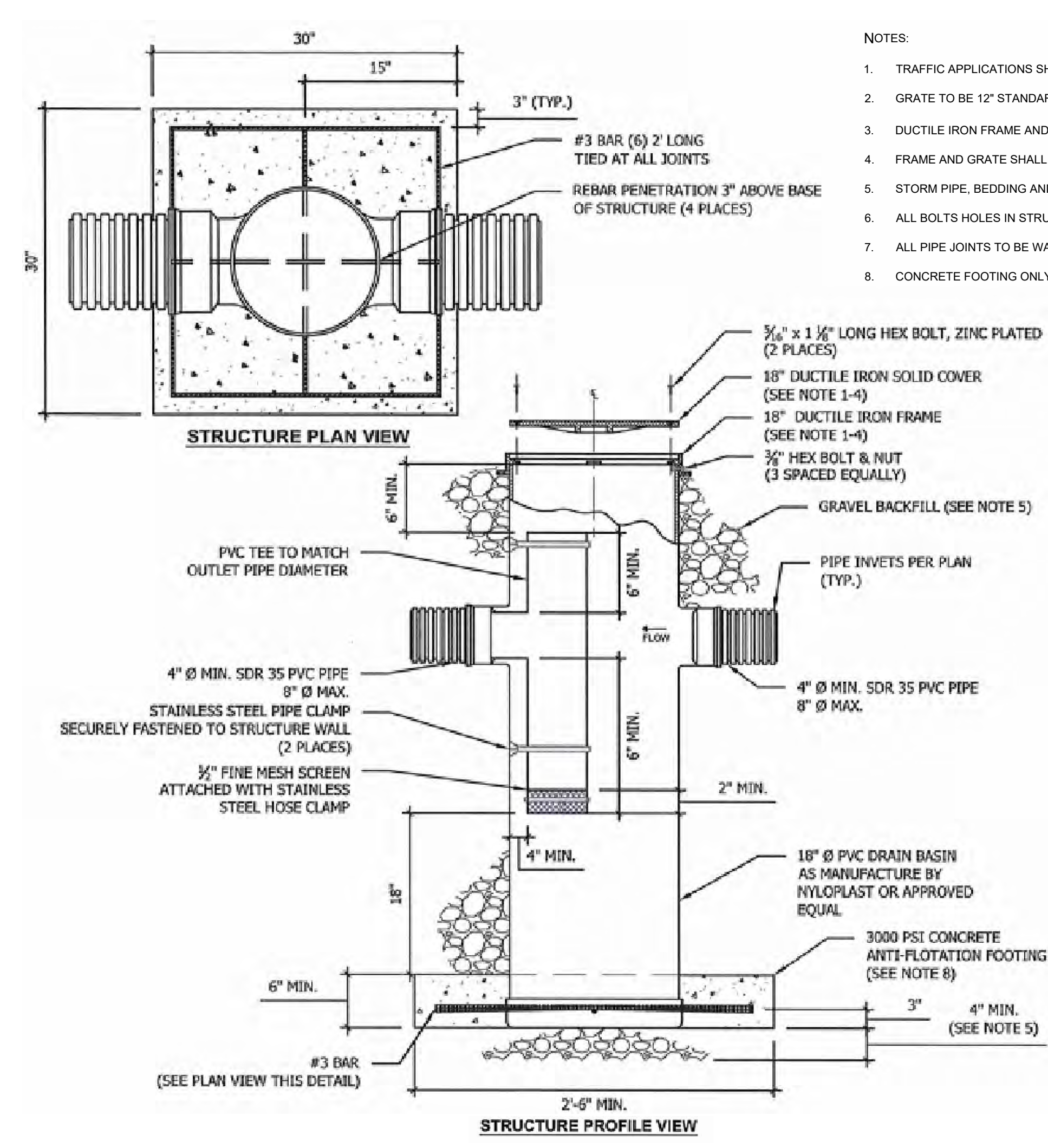


**2 EMBANKMENT FILL CONSTRUCTION**  
ON NATIVE SLOPES STEEPER THAN 5:1  
NOT TO SCALE

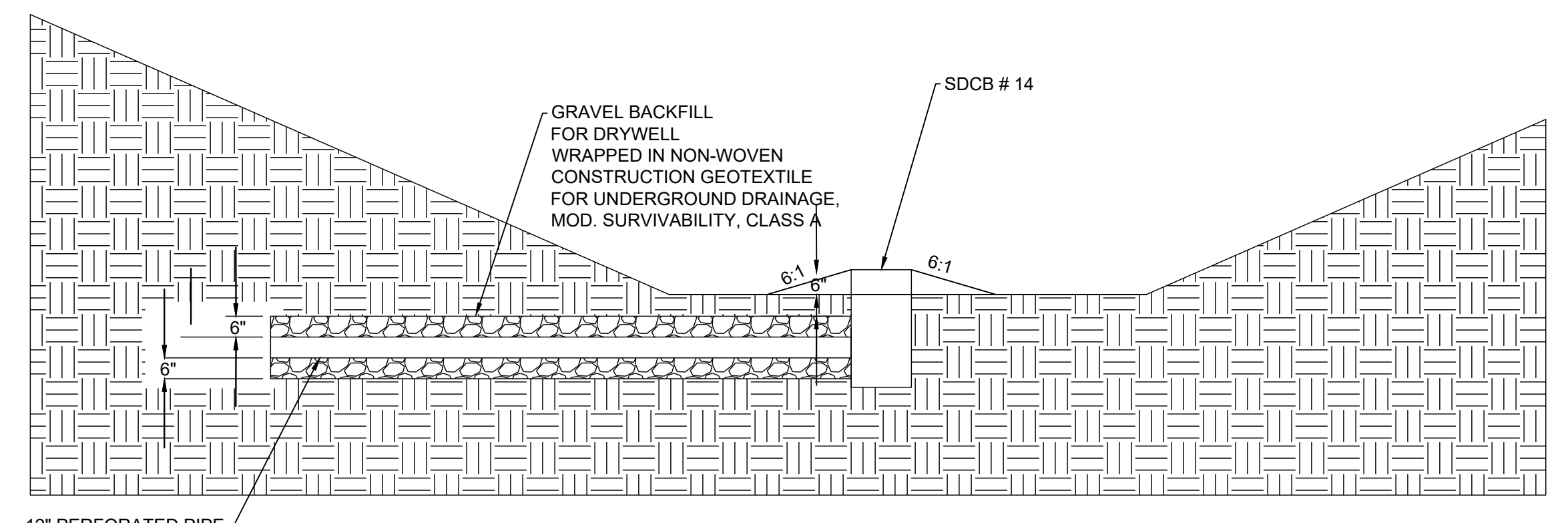
1. THE INTENT OF THIS DESIGN IS TO FACILITATE THE COMPACTION OF HOT MIX ASPHALT PAVEMENT ADJACENT TO A DRAINAGE STRUCTURE.
2. THE CENTERLINE OF THE DRAINAGE STRUCTURE MAY DIFFER FROM THE CENTERLINE OF THE FRAME AND GRATE.



**1 CEMENT CONCRETE CURB and GUTTER PLAN**  
NOT TO SCALE  
WSDOT STD PLAN F-10.16-00



**4 AREA DRAIN**  
NOT TO SCALE



**3 POND TRENCH**  
NOT TO SCALE

- NOTES:
1. TRAFFIC APPLICATIONS SHALL BE HS-20 RATED.
  2. GRATE TO BE 12\"/>

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Dwn: TW Chd: JS00



# CHELSEAN COUNTY OLDS STATION CAMPUS

WENATCHEE, WASHINGTON 98801  
425 OHME GARDEN ROAD

The DOH Associates, PS  
ARCHITECTS and PLANNERS  
7 N Wenatchee Ave Suite 500, Wenatchee, Washington 98801  
Telephone (509) 662-4781 Facsimile (509) 663-3253

BID SET: 1/6/2025

Job: 2344 Date: 1/6/2025

DWG ID - 20240220

C-940

**- Water Standards -** Standard Number: **W114**

**CHELSEAN COUNTY PUBLIC UTILITY DISTRICT**  
Owned By The People We Serve

Originator: **RCS** Standards Approval: **Ron Slabaugh**

Date: **3/12/2019** Page 1 of 1

Rev #: **4** Revision Description: **2019 UPDATES**

**WATER MAIN NOTES:**

- IMPORT CRUSHED ROCK SURFACING SHALL CONFORM TO WSDOT 9-03.9(3) CRUSHED SURFACING.
- NATIVE MATERIAL FOR TRENCH BACKFILL SHALL CONFORM TO WSDOT 9-03.14(2) SELECT BORROW. CRUSHED ROCK SURFACING FOR TRENCH BACKFILL MAY BE REQUIRED BY THE DISTRICT IF NATIVE MATERIAL IS UNACCEPTABLE.
- PIPE ZONE BEDDING SHALL BE IMPORT MATERIAL CONFORMING TO WSDOT 9-03.12(3) GRAVEL BACKFILL FOR PIPE ZONE BEDDING, EXCEPT NO MORE THAN 5% SHALL PASS THE 200 SIEVE.
- POLYETHYLENE ENCASUREMENT OF DUCTILE IRON PIPE MAY BE REQUIRED.
- TONING WIRE SHALL BE INSTALLED.
- OVEREXCAVATION OF TRENCH BOTTOM TO 6-INCHES BELOW PIPE INVERT IS REQUIRED WHEN USING IMPORT PIPE BEDDING. ADDITIONAL 6-INCH OVEREXCAVATION REQUIRED WHEN USING FOUNDATION GRAVEL IN ACCORDANCE WITH CONSTRUCTION NOTES.
- TEMPORARY PATCH MAY BE REQUIRED BY THE CITY OR COUNTY FOR ALL OPEN TRENCH WORK THAT HAS NOT RECEIVED FINAL PAVEMENT. WHEN REQUIRED, TRENCH CUTS SHALL BE COVERED WITH STEEL PLATING, HMA, OR COLD MIX ASPHALT UNTIL FINAL PAVEMENT APPLICATION.

**SERVICE LINE NOTES:**

- INSTALLATION OF TRACER WIRE IS REQUIRED FOR ALL SERVICE LINES. TRACER WIRE SHALL BE SECURED TO SERVICE LINE BY ELECTRICAL TAPE OR INDUSTRIAL ZIP-TIES AT 3-FOOT INTERVALS AND WRAPPED AROUND SERVICE SADDLE TWICE BEFORE CONNECTING TO SERVICE SADDLE ROD WITH 5/8" GROUND ROD CLAMP. TRACER WIRE SHALL BE EXTENDED INTO THE CHAMBER AND COILED WITH MINIMUM 6 FT. EXCESS.
- WHEN MULTIPLE CHAMBERS ARE TO BE LOCATED SIDE BY SIDE, SERVICE LINES MAY BE INSTALLED IN SAME TRENCH WITH 2-FOOT MINIMUM SEPARATION.
- PIPE ZONE BEDDING SHALL BE IMPORT MATERIAL CONFORMING TO WSDOT 9-03.12(3) GRAVEL BACKFILL FOR PIPE ZONE BEDDING, EXCEPT NO MORE THAN 5% SHALL PASS THE 200 SIEVE.

REF # 8568-88C1-W114

**- Water Standards -** Standard Number: **W120**

**CHELSEAN COUNTY PUBLIC UTILITY DISTRICT**  
Owned By The People We Serve

Originator: **RCS** Standards Approval: **Ron Slabaugh**

Date: **3/12/2019** Page 1 of 1

Rev #: **1** Revision Description: **2019 UPDATES**

**NOTES:**

- INSTALL HYDRANT PLUMB. HYDRANT RUNS SHALL BE 6" DUCTILE IRON PIPE, LENGTH TO FIT. RESTRAIN ALL JOINTS ON HYDRANT RUN WITH MEGA-LUG FOLLOWERS FOR FITTINGS AND FIELD LOK GASKETS FOR BELLS.
- FIRE HYDRANTS LOCATED BEHIND EXISTING OR FUTURE SIDEWALKS SHALL BE SET AT 3 FT. ± 6" FROM BACK OF SIDEWALK TO THE CENTER OF THE HYDRANT.

**MATERIALS:**

- WATEROUS PACER 5-1/4", M&H #129 MODIFIED, KENNEDY K810, MUELLER A423, OR EQUAL.
- PCT PUMPER CONNECTION.
- 2-1/2" HOSE CONNECTIONS NST THREAD WITH 1-1/4" PENTAGON OPERATING NUT.
- 5-1/4" MAIN VALVE OPENING WITH STORTZ FOR COUNTY. STORTZ ADAPTER FOR CITY OF WENATCHEE.
- 6" MECHANICAL JOINTS, MEGA-LUG, OR EQUAL.
- 2 PIECE CAST IRON VALVE BOX, RICH VALVE CO., OR PUD APPROVED EQUAL STANDARD 8" TOP SECTION WITH REGULAR BASE SECTION. LENGTH TO FIT.
- 6" RESILIENT SEAT GATE VALVE, FLxMJ.
- DUCTILE IRON TEE, W/6" FLANGED OUTLET (SET TEE HORIZONTALLY).
- DUCTILE IRON PIPE, CLASS 52, MORTAR LINED LENGTH TO FIT.
- 1/2 CU. YD. MINIMUM DRAIN ROCK (1-1/4" TO 2"). COVER ROCK W/ PLASTIC OR TAR PAPER.
- HYDRANT EXTENSION IF REQUIRED. INSTALL BETWEEN REF AND FACTORY SUPPLIED EXTENSION.

REF # 8568-88C1-W120

**- Water Standards -** Standard Number: **W125**

**CHELSEAN COUNTY PUBLIC UTILITY DISTRICT**  
Owned By The People We Serve

Originator: **RCS** Standards Approval: **Ron Slabaugh**

Date: **3/12/2019** Page 1 of 1

Rev #: **1** Revision Description: **2019 UPDATES**

**NOTES:**

- TRACER WIRE LOOP TO BE TAPED TOGETHER INSIDE OF THE VALVE BOX EVERY 6 INCHES.
- PROVIDE 3' OF CLEAR SPACE AROUND VALVE BOX FOR OPERATION.

REF # 8568-88C1-W125

**- Water Standards -** Standard Number: **W123**

**CHELSEAN COUNTY PUBLIC UTILITY DISTRICT**  
Owned By The People We Serve

Originator: **RCS** Standards Approval: **Ron Slabaugh**

Date: **3/12/2019** Page 1 of 1

Rev #: **1** Revision Description: **2019 UPDATES**

**PIPE RESTRAINT REQUIREMENTS**

SCALE: NOT TO SCALE

HORIZONTAL AND VERTICAL UP BENDS - REQUIRED RESTRAINED LENGTH FOR EACH SIDE OF BEND			
PIPE SIZE	90°	45°	22.5°
6-INCH DUCTILE IRON	8 FT	8 FT	17 FT
8-INCH DUCTILE IRON	8 FT	11 FT	21 FT
10-INCH DUCTILE IRON	8 FT	13 FT	25 FT
12-INCH DUCTILE IRON	8 FT	14 FT	29 FT

VERTICAL DOWN BENDS - REQUIRED RESTRAINED LENGTH FOR EACH SIDE OF BEND			
PIPE SIZE	90°	45°	22.5°
6-INCH DUCTILE IRON	15 FT	28 FT	58 FT
8-INCH DUCTILE IRON	18 FT	36 FT	74 FT
10-INCH DUCTILE IRON	22 FT	44 FT	98 FT
12-INCH DUCTILE IRON	26 FT	51 FT	185 FT

STRAIGHT TEES - REQUIRED RESTRAINED LENGTH FOR TEE BRANCH	
6-INCH DUCTILE IRON	98 FT
8-INCH DUCTILE IRON	139 FT
10-INCH DUCTILE IRON	173 FT
12-INCH DUCTILE IRON	211 FT

REDUCED BRANCH TEES - REQUIRED RESTRAINED LENGTH FOR TEE BRANCH	
8X6X8-INCH DUCTILE IRON	85 FT
10X8X10-INCH DUCTILE IRON	71 FT
12X8X12-INCH DUCTILE IRON	128 FT
12X8X12-INCH DUCTILE IRON	56 FT
12X8X12-INCH DUCTILE IRON	118 FT
12X10X12-INCH DUCTILE IRON	155 FT

REDUCERS - REQUIRED RESTRAINED LENGTH FOR LARGER PIPE	
8X6-INCH DUCTILE IRON	75 FT
10X6-INCH DUCTILE IRON	132 FT
10X8-INCH DUCTILE IRON	73 FT
12X6-INCH DUCTILE IRON	183 FT
12X8-INCH DUCTILE IRON	134 FT
12X10-INCH DUCTILE IRON	74 FT

DEAD ENDS - REQUIRED RESTRAINED LENGTH	
6-INCH DUCTILE IRON	138 FT
8-INCH DUCTILE IRON	178 FT
10-INCH DUCTILE IRON	215 FT
12-INCH DUCTILE IRON	252 FT

**NOTES:**

- MECHANICAL JOINTS SHALL BE RESTRAINED WITH MEGALUGS OR EQUAL. TYTON JOINTS SHALL BE RESTRAINED WITH FIELD LOK GASKETS OR EQUAL. MECHANICAL JOINT RESTRAINTS SHALL BE COATED WITH FUSION BONDED POLYESTER, OR ZINC & EPOXY COATING, EBAA MEGABOND, ROMAC ROMABOND, OR APPROVED EQUAL.
- ADHERE TO THE RESTRAINED JOINT REQUIREMENTS IN THE TABLE, OR AS RECOMMENDED BY THE MANUFACTURER IF MORE STRINGENT.
- RESTRAINED JOINTS ARE REQUIRED ON ALL JOINTS WHEN THE DUCTILE IRON MAIN IS INSTALLED IN A CASING PIPE.
- RESTRAINED JOINTS ARE REQUIRED ON ALL PIPES LESS THAN 8-FEET IN LENGTH.
- RESTRAINED JOINTS ARE REQUIRED ON TEE BRANCHES AND ON TEE RUNS.
- RESTRAINED JOINTS ARE REQUIRED ON ALL FITTINGS UNLESS THRUST BLOCKING IS APPROVED BY DISTRICT.
- WHEN USING BARE DUCTILE IRON PIPE THE RESTRAINED LENGTH IN THE TABLE FOR TEES, DEAD ENDS AND REDUCERS MAY BE MULTIPLIED BY 8.5.
- WHERE BENDS REQUIRE TWO FITTINGS AS SHOWN ON CONTRACT DRAWINGS, LENGTH OF PIPE WITH RESTRAINED JOINTS SHALL BE FOR THE NEXT ANGLE GREATER THAN THE SUM OF THE ANGLES FORMED BY THE FITTINGS BUT NOT GREATER THAN FOR A 90° BEND.

REF # 8568-88C1-W123

**- Water Standards -** Standard Number: **W121**

**CHELSEAN COUNTY PUBLIC UTILITY DISTRICT**  
Owned By The People We Serve

Originator: **RCS** Standards Approval: **Ron Slabaugh**

Date: **3/12/2019** Page 1 of 1

Rev #: **1** Revision Description: **2019 UPDATES**

**HYDRANT LOCATION**

SCALE: NOT TO SCALE

**NOTES:**

- ROCK, LANDSCAPE BRICK, OR HILL HOLDER TO PROVIDE SLOPE STABILIZATION.
- CONCRETE BOLLARD SHALL BE SET IN 3000 PSI CONCRETE.

REF # 8568-88C1-W121

**- Water Standards -** Standard Number: **W117**

**CHELSEAN COUNTY PUBLIC UTILITY DISTRICT**  
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Originator: **RCS** Standards Approval: **Ron Slabaugh**

Date: **3/12/2019** Page 1 of 1

Rev #: **1** Revision Description: **2019 UPDATES**

**POLYETHYLENE ENCASUREMENT**

SCALE: NOT TO SCALE

**NOTES:**

- CUT THE POLYETHYLENE TUBE TWO FEET LONGER THAN PIPE AND SLIP OVER PIPE AS SHOWN.
- SPREAD THE POLYETHYLENE TUBE AS SHOWN SO THAT ENOUGH IS LEFT TO PROVIDE A ONE FOOT OVERLAP AT EACH END OF PIPE.
- TAKE UP SLACK IN THE TUBE ALONG THE PIPE BARREL, MAKING A SNUG BUT NOT TIGHT FIT. FOLD OVER ON TOP OF PIPE AND SECURE IN PLACE WITH 2-LAYERS OF CIRCUMFERENTIALLY WRAPPED TAPE ABOUT TWO FEET ON CENTER. (PE SHOWN LOOSE)
- LOWER PIPE INTO TRENCH, BEING SURE THAT THE POLYWRAP IS NOT DAMAGED, AND MAKE UP JOINT.
- PULL POLYETHYLENE FORWARD FROM PREVIOUS JOINT OVER THE BELL AND SECURE IN PLACE AS SHOWN.
- PULL POLYETHYLENE FROM NEW PIPE OVER THIS SAME BELL, PROVIDING A DOUBLE LAYER OF POLYETHYLENE AND SECURE IN PLACE AS SHOWN.
- SEE SPECIFICATIONS, STANDARD NUMBER W217, FOR ADDITIONAL INFORMATION.

REF # 8568-88C1-W117





Dwn: TW Chd: JS00

Erlandsen SURVEYING | PLANNING | ENGINEERING

CHELAN COUNTY OLDS STATION CAMPUS WENATCHEE, WASHINGTON 98801

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BID SET: 1/6/2025 Job: 2344 Date: 1/6/2025 DWG ID - 20240220

C-950

- Water Standards - Standard Number: W118 POLYETHYLENE ENCASEMENT SPECIFICATIONS

- Water Standards - Standard Number: W113 WATER SERVICE, AIR VALVE, BLOW OFF VAULT INSTALLATION PLACEMENT

- Water Standards - Standard Number: W115 CASING PIPE

- Water Standards - Standard Number: W103 DOUBLE WATER SERVICE FOR PRESSURE LESS THAN 150 PSI

- Water Standards - Standard Number: W122 CONNECTION TO EXISTING MAIN & HOT TAP

- Water Standards - Standard Number: W124 GENERAL CONSTRUCTION NOTES

JeHS: 1/06/25 2:38pm M:\Jobs\2024\20240220\DWG\Final\20240220 0000 DTL5.dwg Layout: DT7-WA