

CROSS VALLEY WATER DISTRICT

SNOHOMISH COUNTY, WASHINGTON



CVWD LOGO
PREFERRED
ON PLANS

PROJECT NAME
CVWD PROJECT _____

CVWD PROJECT NUMBER
PROVIDED BY THE DISTRICT

DISTRICT COMMISSIONERS

Dave Hutley
Warren "Skip" Schott
Ginger Desy

DISTRICT MANAGER

Mike Johnson

OPERATIONS MANAGER

Dave Calvo

OWNER:
CROSS VALLEY WATER DISTRICT

ADDRESS: 8802 180TH ST SE
SNOHOMISH, WA. 98296
APPLICANT: MIKE JOHNSON
EMAIL: MJOHNSON@CROSSVALLEYWATER.NET
PHONE: 360.668.6766
FAX: 360.668.9634

ENGINEER/C.E.S.C.L.:

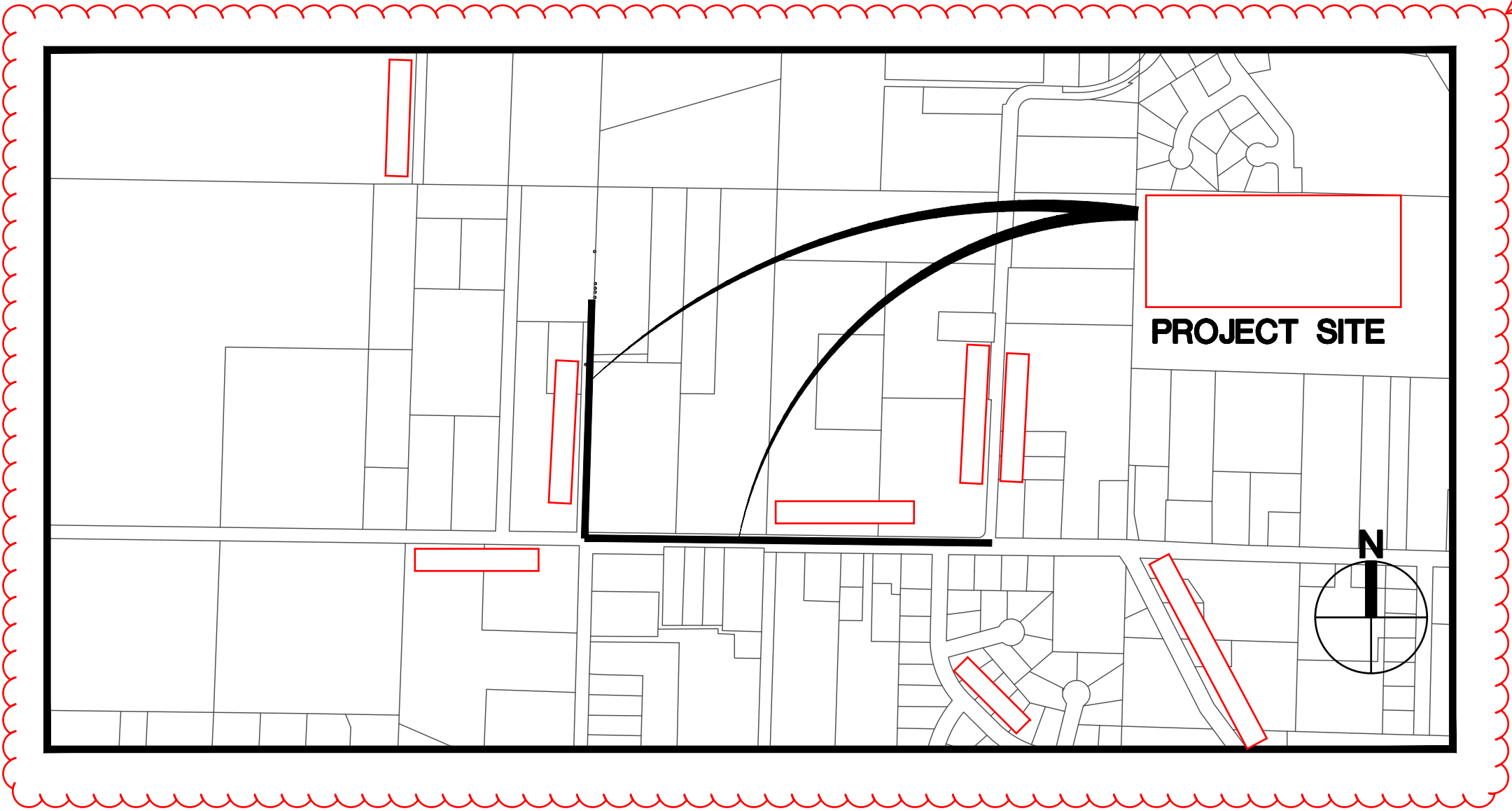
PROJECT CONTACT: _____
ADDRESS: _____
EMAIL: _____
PHONE: _____

SHEET TABLE

DWG NUMBER	SHEET NUMBER	SHEET TITLE
C1	1	COVER SHEET
C2	2	NOTES AND LEGEND
W1	3	_____ PLAN AND PROFILE
W2	4	_____ PLAN AND PROFILE
WD1	5	WATER DETAILS

Water sheets W____
Water Details WD____
Sewer sheet S____
Sewer Details SD____

INCLUDE VICINITY MAP WITH
STREET NAMES, PARCELS,
AND PROJECT SITE(S)



VICINITY MAPS
Scale: 1"=500'

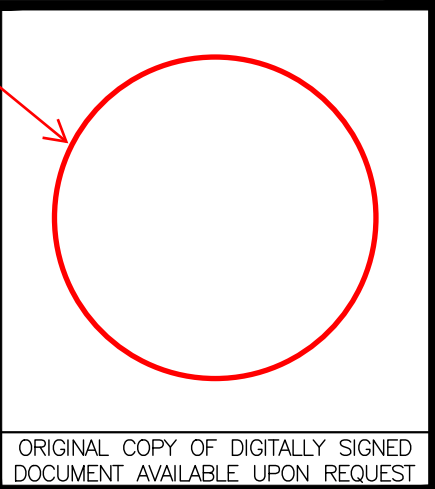
INCLUDE CVWD
APPROVAL BLOCK

APPROVED FOR CONSTRUCTION
CROSS VALLEY WATER DISTRICT
PROJECT # _____
GENERAL MANAGER _____ DATE _____

ENGINEER'S STAMP



Know what's below.
Call before you dig.



BID SET

ORIGINAL COPY OF DIGITALLY SIGNED
DOCUMENT AVAILABLE UPON REQUEST

DESIGNED _____						Designer Engineering Firm logo, name, address, phone.	 CROSS VALLEY WATER DISTRICT 8802 180TH STREET SE SNOHOMISH, WA 98296	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	DATE _____	PROJECT NAME CVWD PROJECT _____ COVER SHEET	DWG C1 SHEET 1 OF _____
DRAWN _____									SCALE AS SHOWN		
CHECKED _____	SYM	REVISION	DATE	BY	APP'D						

WATER LEGEND

	W	WATER MAIN
		WATER SERVICE LINE
		EXISTING WATER MAIN
		SAWCUT AND PAVEMENT PATCH
		2" ASPHALT GRIND AND OVERLAY
		EXISTING PIPE TO BE REMOVED
		EXISTING GRAVEL
		EXISTING ASPHALT

EXISTING	PROPOSED	
		WATER METER
		2 NOZZLE FIRE HYDRANT/FDC
		3 NOZZLE FIRE HYDRANT
		THRUST BLOCK
		11.25' BEND MJ
		22.5' BEND FL
		22.5' BEND MJ
		45' BEND FL
		90' BEND FL
		90' BEND MJ
		TEE FL
		TEE MJ
		TEE MJxFL
		MECHANICAL JOINT
		COUPLING
		VERTICAL BEND FL
		VERTICAL BEND MJ
		FLANGE/BLIND FLANGE
		PUSH-ON/HUB
		CAP/PLUG
		REDUCER FL
		REDUCER FLxMJ
		REDUCER MJ
		REDUCER MJxFL
		REDUCER MJxPE
		BLOW OFF VALVE
		AIR RELIEF VALVE
		POST INDICATOR VALVE
		BUTTERFLY VALVE FL
		BUTTERFLY VALVE FLxMJ
		BUTTERFLY VALVE MJ
		GATE/GENERAL VALVE
		GATE VALVE FLxMJ
		GATE VALVE MJ
		DOUBLE CHECK VALVE ASSEMBLY
		WATER VAULT
		WATER MH
		PRIVATE PRV

SURVEY LEGEND

	HYDRANT
	MANHOLES (SS/SD)
	CB
	POWER/UTILITY POLE
	ANCHOR POLE
	GUY ANCHOR
	POWER TRANSFORMER
	POWER/TELEPHONE VAULT
	POWER METER
	TELEPHONE/TV RISER
	GAS VALVE
	JUNCTION BOX
	GAS METER
	STREET LIGHT
	LUMINAIRE
	SPOT ELEVATION
	SIGN
	MAILBOX
	ROCKERY
	CONIFEROUS TREE
	DECIDUOUS TREE
	CASED MONUMENT
	MAGNETIC NAIL W/ WASHER
	REBAR AND CAP

	CENTER LINES
	PROPERTY LINES
	RIGHT-OF-WAY LINES
	LOT LINES
	DITCH LINE
	FLOW LINE
	WATER LINE
	SANITARY SEWER LINE
	STORM DRAIN LINE
	GAS LINE
	UNDERGROUND POWER LINES
	UNDERGROUND TELEPHONE LINES
	UNDERGROUND CABLE TV LINES
	UNDERGROUND FIBER OPTIC LINES
	OVERHEAD UTILITY LINES
	CHAIN LINK FENCE
	WIRE FENCE
	WOOD FENCE

NOTES:

VERTICAL DATUM: NAD '83 '03, WASHINGTON COORDINATE SYSTEM NORTH ZONE.

VERTICAL DATUM: NAVD 88 BASED ON RTK GPS MEASUREMENTS CONSTRAINED TO THE WASHINGTON STATE REFERENCE NETWORK AND GEOID 2012A MODEL.

SITE AREA:

ALL DISTANCES SHOWN ARE GROUND DISTANCES UNLESS OTHERWISE NOTED.

THE LOCATION AND DESCRIPTION OF ALL SURVEY MARKERS SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS TAKEN IN FEBRUARY,2019, UNLESS OTHERWISE INDICATED.

WORK PERFORMED IN CONJUNCTION WITH THIS SURVEY UTILIZED THE FOLLOWING EQUIPMENT AND PROCEDURES: (A) 1" TRIMBLE S6 SERIES ELECTRONIC TOTAL STATION, MAINTAINED TO THE MANUFACTURER'S SPECIFICATIONS PER W.A.C. 332-130-100. (B) FIELD TRAVERSE, EXCEEDING REQUIREMENTS SET FORTH IN W.A.C. 332-130-090.

THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT PURPORT TO SHOW ALL EASEMENTS.

THIS TOPOGRAPHIC SURVEY DRAWING ACCURATELY PRESENTS SURFACE FEATURES LOCATED DURING THE COURSE OF THIS SURVEY. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED SOLELY UPON INFORMATION PROVIDED BY OTHERS AND PACE ENGINEERS, INC. DOES NOT ACCEPT RESPONSIBILITY OR ASSUME LIABILITY FOR THEIR ACCURACY OR COMPLETENESS. CONTRACTOR/ENGINEERS SHALL VERIFY EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION. CALL FOR LOCATE: UTILITY LOCATION SERVICE: 811

TESC LEGEND AND NOTES

- CONSTRUCTION FENCE
- — — — — CONSTRUCTION LIMITS
- STRAW WATTLES
- THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EX. FACILITIES. THE CONTRACTOR SHALL CALL 811 AND SHALL PERFORM A PRIVATE UTILITY LOCATE FOR ALL WORK ON KING COUNTY PARKS PROPERTY PRIOR TO ANY CONSTRUCTION TO VERIFY LOCATION OF EX. UTILITIES.
 - INSTALL TESC FACILITIES PRIOR TO EXCAVATION. THE TESC FACILITIES CALLED OUT ON PLANS ARE THE MINIMUM ANTICIPATED MEASURES. CONTRACTOR TO PROVIDE ADDITIONAL TESC MEASURES AS CONDITIONS REQUIRE OR AS DIRECTED BY CVWD OR SNOHOMISH COUNTY
 - CONSTRUCTION FENCING SHALL BE 1-FOOT CLEAR OF EDGE OF PAVEMENT AND FENCE FOOTINGS SHALL NOT PROTRUDE INTO ROADWAY OR SHALL BE MARKED WITH CONES OR OTHER WARNING FEATURES.

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN THE CROSS VALLEY WATER DISTRICT STANDARD SPECIFICATIONS AND STANDARD DETAILS.
- ALL WORK IN ROAD RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH SNOHOMISH COUNTY SPECIFICATIONS. NO WATER LINE SHALL BE CONSTRUCTED AT DITCH OR SWALE CENTERLINE.
- EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE CORRECT LOCATIONS BEFORE DIGGING. THIS MAY BE DONE BY CALLING 811 FOR THOSE UTILITIES PARTICIPATING IN ONE-CALL AND BY DIRECT CONTACT OF ALL OTHER AFFECTED UTILITY COMPANIES OR MUNICIPALITIES.
- THE CONTRACTOR SHALL LOCATE AND VERIFY OTHER UNDERGROUND IMPROVEMENTS PRIOR TO CONSTRUCTION.
- DUCTILE IRON PIPE SHALL BE STANDARD THICKNESS CLASS 52 CEMENT-LINED FOR 8" AND 6" DIAMETER PIPE, CLASS 53 CEMENT-LINED FOR 4" DIAMETER PIPE.
- ALL PIPE SHALL BE POLY-WRAPPED PER AWWA C105 AND INSTALLED WITH LOCATOR WIRE PER THE ENGINEERING SPECIFICATIONS.
- ALL PIPE SHALL BE INSTALLED WITH IMPORT PIPE BEDDING PER THE ENGINEERING SPECIFICATIONS.
- ALL SERVICES SHALL BE SINGLE WITH 1" PIPE PER STANDARD DETAIL.
- ALL VALVES SHALL BE DUCTILE IRON BODY RESILIENT SEAT GATE VALVES PER THE ENGINEERING SPECIFICATIONS.
- CONTRACTOR SHALL GIVE CROSS VALLEY WATER DISTRICT A MINIMUM OF 72 HOURS' NOTICE PRIOR TO CONNECTING TO THE EXISTING SYSTEM.
- CONSTRUCTION SHALL NOT BEGIN WITHOUT WRITTEN APPROVAL OF CROSS VALLEY WATER DISTRICT.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN CONFORMANCE WITH SNOHOMISH COUNTY REQUIREMENTS, INDUSTRY STANDARD BEST MANAGEMENT PRACTICES, AND THE REQUIREMENTS INCLUDED IN PROJECT GRADING, STORM DRAINAGE, AND TESC PLANS AND SPECIFICATIONS.

CVWD STANDARD NOTES

MAKE SURE SYMBOLS DISPLAYED HERE ARE CONSISTENT WITH THOSE IN PLAN VIEW ON PLAN ABOVE PROFILE SHEETS

ENGINEER'S STAMP

APPROVED FOR CONSTRUCTION

CROSS VALLEY WATER DISTRICT

PROJECT # _____

GENERAL MANAGER _____

DATE _____

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DESIGNED _____					
DRAWN _____					
CHECKED _____					
	SYM	REVISION	DATE	BY	APP'D

Designer Engineering Firm logo, name, address, phone.

Cross Valley WATER DISTRICT

CROSS VALLEY WATER DISTRICT

8802 180TH STREET SE

SNOHOMISH, WA 98296

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DATE _____

SCALE

AS SHOWN

PROJECT NAME

CVWD PROJECT _____

NOTES AND LEGEND

BID SET

DWG C2





SHEET 2 OF _____

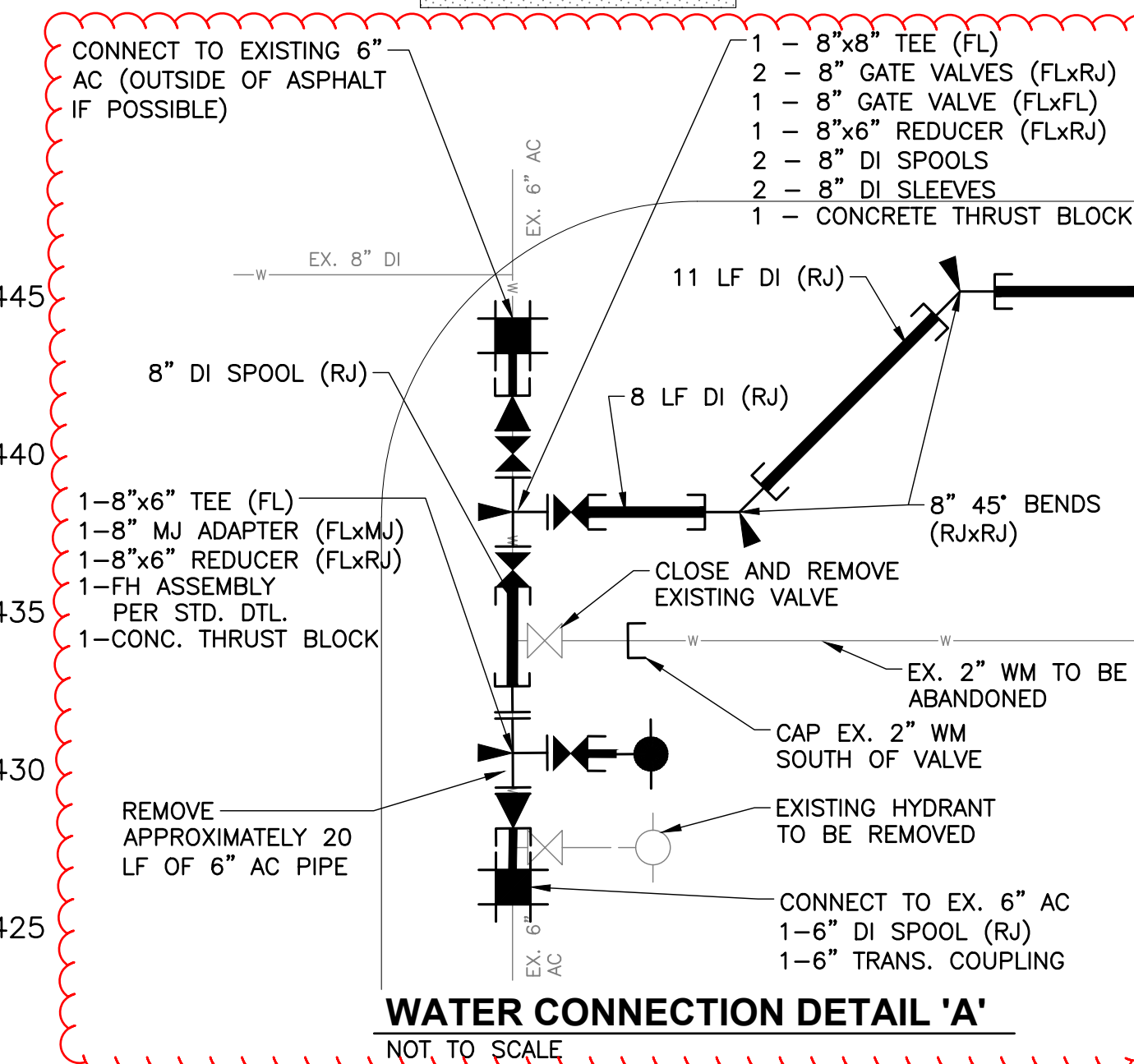
____ 1/4, SEC. ____, TWP. ____, RGE. ____, W.M. ____

Ⓢ WATER CONSTRUCTION NOTES:

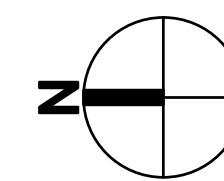
1. INSTALL NEW 1" SERVICE PER CVWD STANDARDS. EXISTING METERS TO BE REMOVED AND SALVAGED TO DISTRICT SHOP. EXISTING METER BOXES TO BE REMOVED AND DISPOSED OF. NEW SERVICES TO BE BUSHED DOWN TO THE METER. BUSHING TO BE PROVIDED BY CVWD.
2. CAP/PLUG EXISTING WATER MAIN TO BE ABANDONED IN PLACE.
3. POTHOLE ALL UTILITY CROSSINGS SUFFICIENTLY IN ADVANCE TO VERIFY OR REVISE THE VERTICAL LOCATION OF THE PROPOSED WATER MAIN.
4. LONG SERVICES UNDER _____ TO BE TUNNELED OR OTHERWISE BORED TO AVOID SAWCUTTING.
5. OPEN CUT FOR WATER MAIN TRENCHING. RESTORE ASPHALT TO EXISTING CONDITIONS PER CVWD STD. DTL. TBR-2.
6. MAILBOXES TO BE REMOVED FOR NEW WATER MAIN AND REPLACED AFTER CONSTRUCTION IS COMPLETE. A TEMPORARY SUBSTITUTE IS TO BE IN PLACE THROUGH THE DURATION OF CONSTRUCTION.
7. CLOSE EXISTING VALVE, REMOVE VALVE BOX AND BACKFILL WITH CDF.
8. 2" ASPHALT PLANING AND OVERLAY PER SNOHOMISH COUNTY ENGINEERING DESIGN AND DEVELOPMENT STANDARDS, DETAIL 8-030.
9. EXISTING CULVERT TO BE REPLACED AS NEEDED FOR WM INSTALLATION.

LEGEND:

- | | |
|---|---------------------|
|  | EXISTING GRAVEL |
|  | ASPHALT REPLACEMENT |
|  | ASPHALT OVERLAY |
|  | EXISTING ASPHALT |



IN ORDER TO SHOW ALL FITINGS, DOESN'T HAVE TO BE DRAWN TO SCALE



Know what's **below**.
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APPROVED FOR CONSTRUCTION

CROSS VALLEY WATER DISTRICT
PROJECT # _____

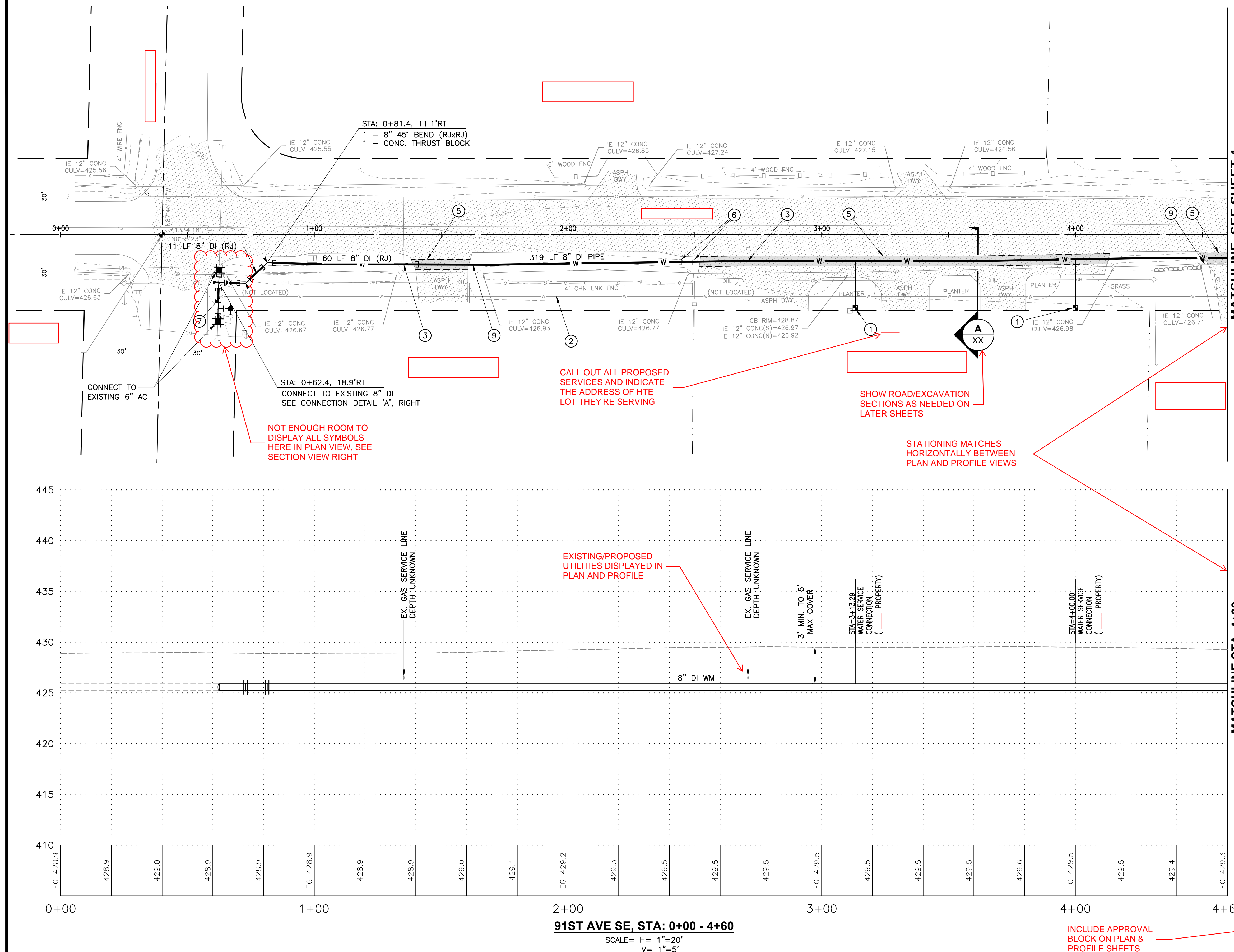
GENERAL MANAGER

DAT

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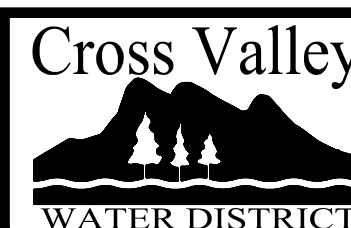
DWG W1

SHEET **3** OF

INCLUDE APPROVAL
BLOCK ON PLAN &
PROFILE SHEETS

DESIGNED _____					
DRAWN _____					
CHECKED _____					
	SYM	REVISION	DATE	BY	APP'Y


Designer Engineering Firm logo,
name, address, phone.



CROSS VALLEY WATER DISTRICT

8802 180TH STREET SE
SNOHOMISH, WA 98296

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SCALE

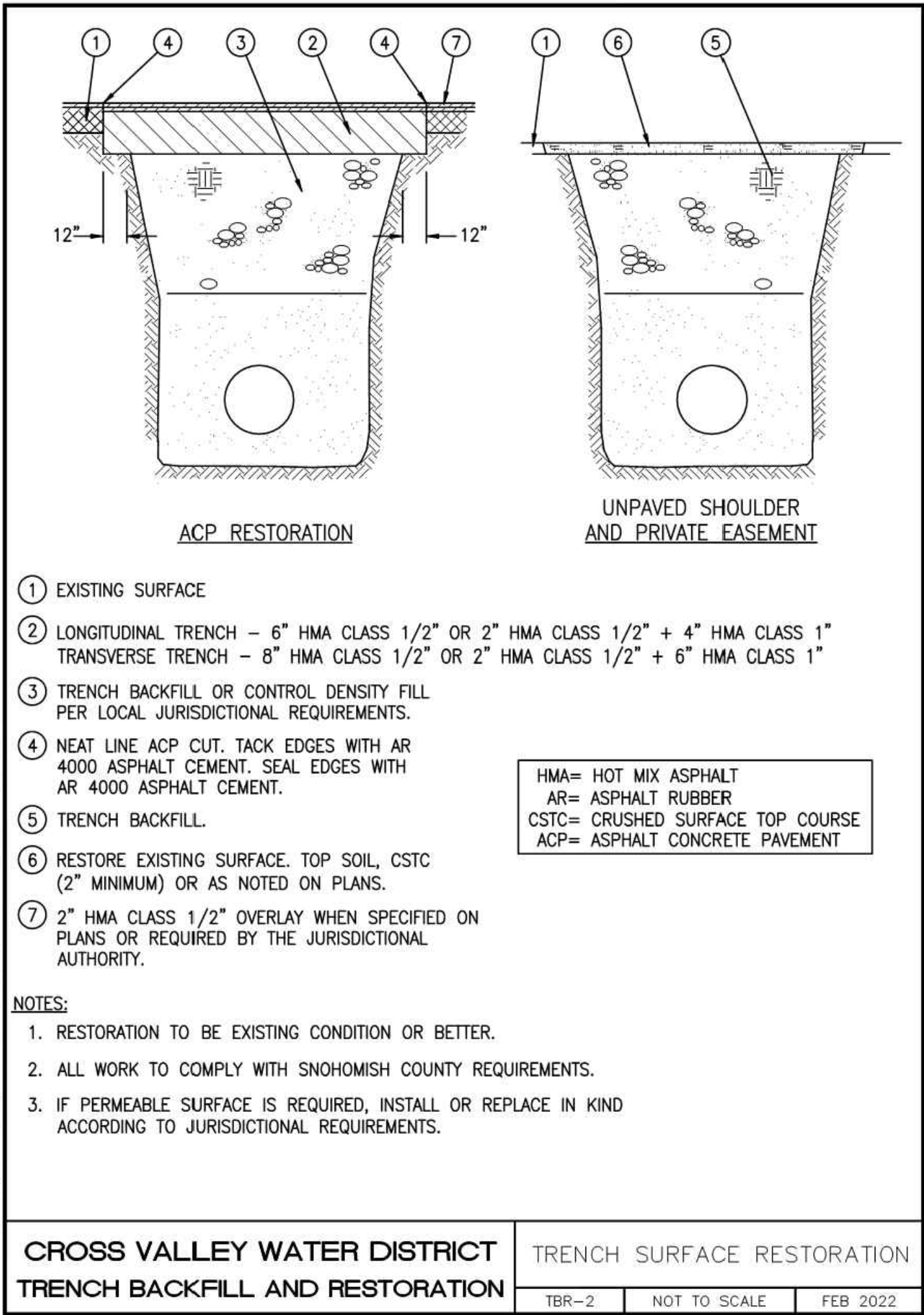
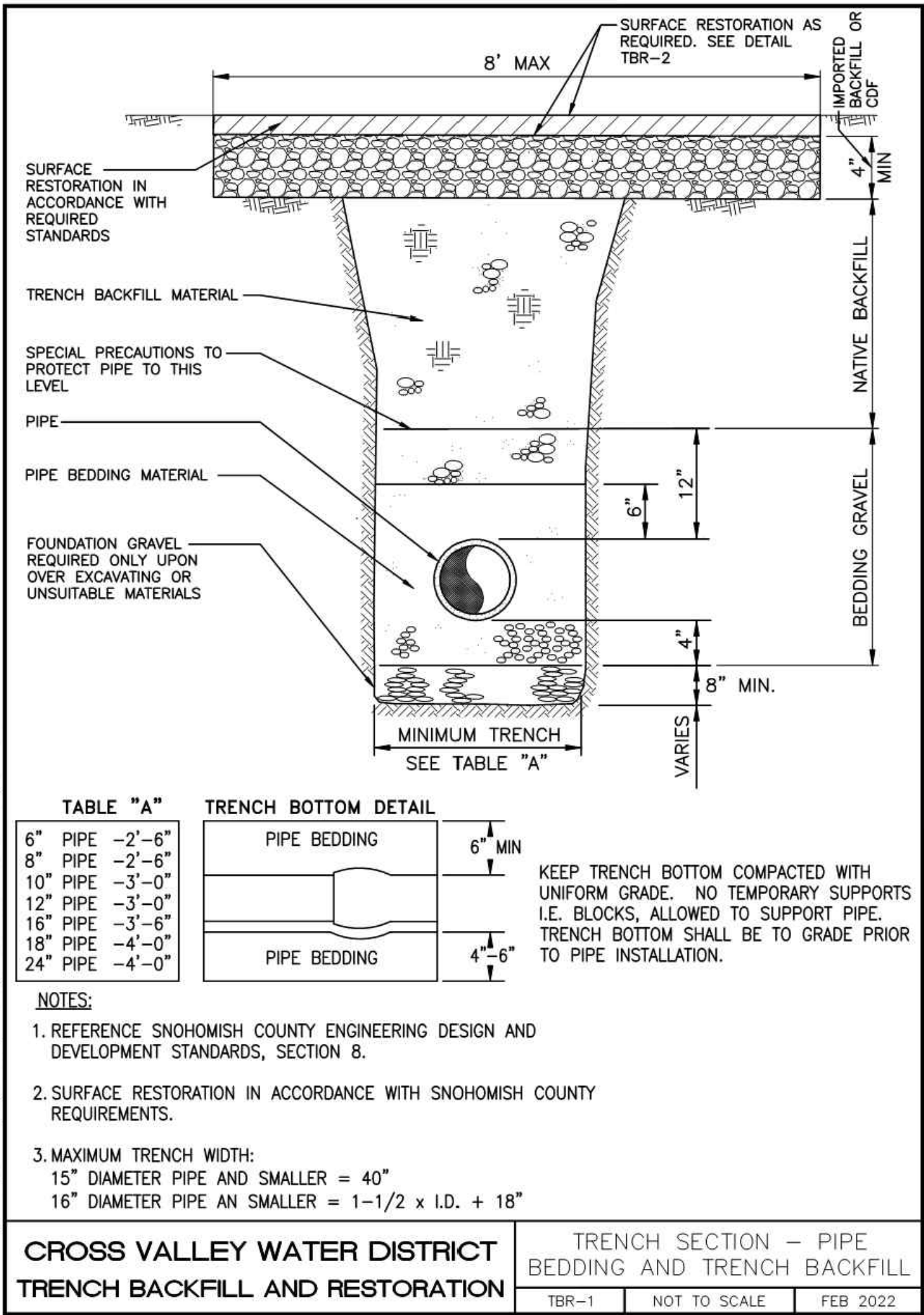
AS SHOWN

PROJECT NAME

CVWD PROJECT _____

DWG W1

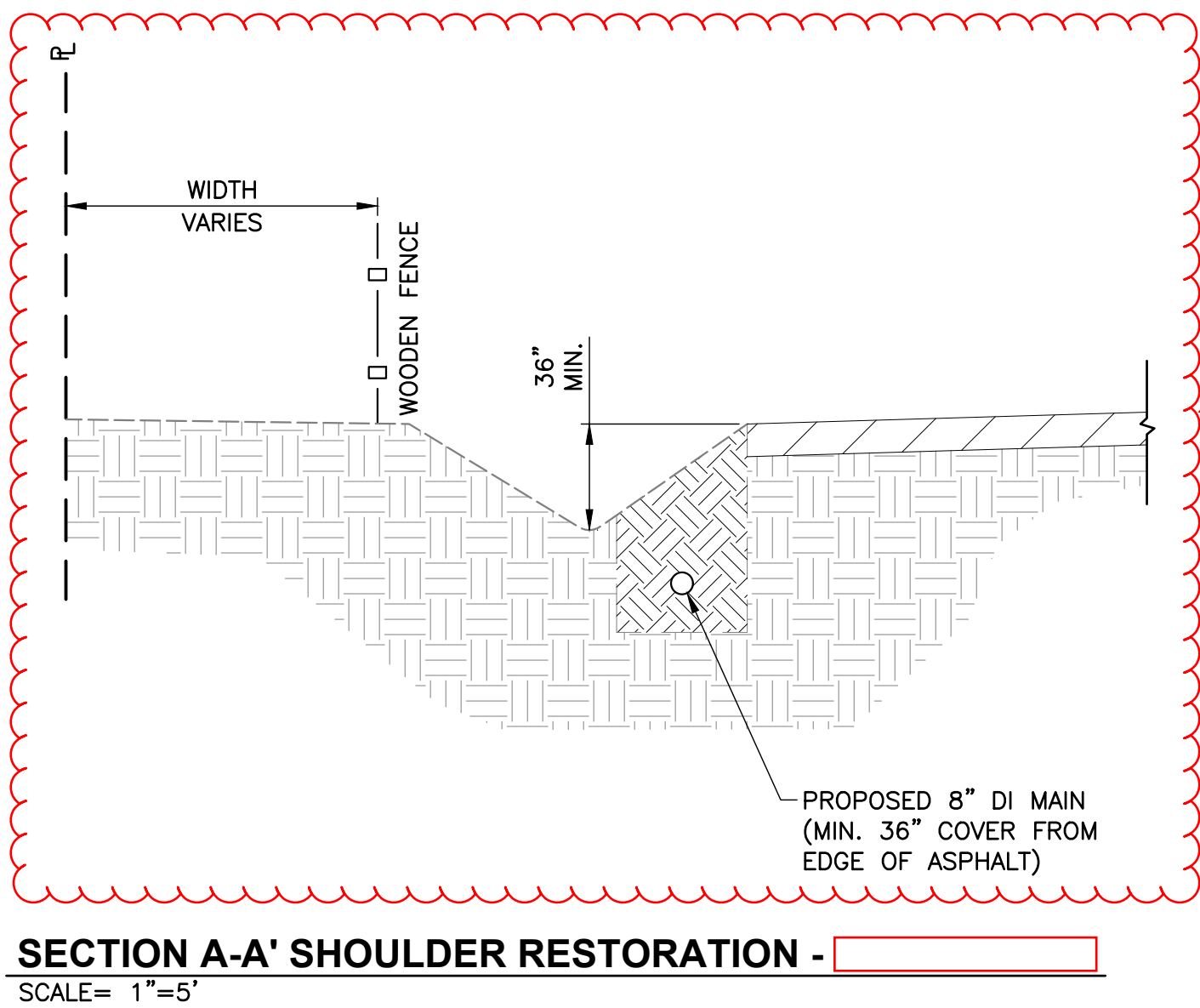
SHEET **3** OF



WATER DETAILS LIST	
SHEET #	SHEET TITLE
WD-1	TYPICAL 1-INCH WATER SERVICE
WD-5	METER BOXES AND LIDS
WD-7	FIRE HYDRANT ASSEMBLY
WD-7B	FIRE HYDRANT REQUIREMENTS
WD-8	THRUST BLOCKING
WD-8A	CONCRETE BLOCKING FOR VERTICAL BENDS
WD-9	MINIMUM STANDARD DEPTH REQUIREMENTS
WD-10	TAPPING TEE AND VALVE
WD-11	CAST IRON VALVE AND BOX
WD-11A	VALVE BOX COVER
WD-11D	VALVE BOX PROTECTIVE PAD
WD-12	2 INCH BLOWOFF ASSEMBLY
WD-13	1 INCH AIR AND VACUUM RELEASE VALVE ASSEMBLY
WD-19	PRV

MAKE LIST OF APPLICABLE CVWD STANDARD DETAILS, NO NEED TO PLOT ALL OF THEM IN THE SHEETSET

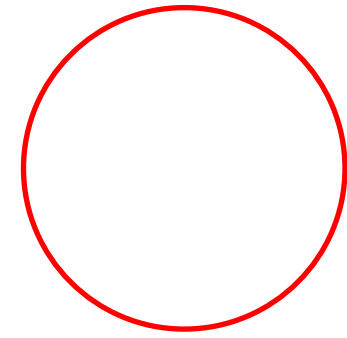
INCLUDE TBR-1 & 2 IF APPLICABLE FOR PERMITTING PURPOSES (SNOHOMISH CO or WSDOT)



INCLUDE ROADWAY SECTIONS ON THIS SHEET AS NEEDED (REFERENCE IN PLAN VIEW)



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SCALE
AS SHOWN

PROJECT NAME
CVWD PROJECT

DWG **WD1**

SHEET 5 OF