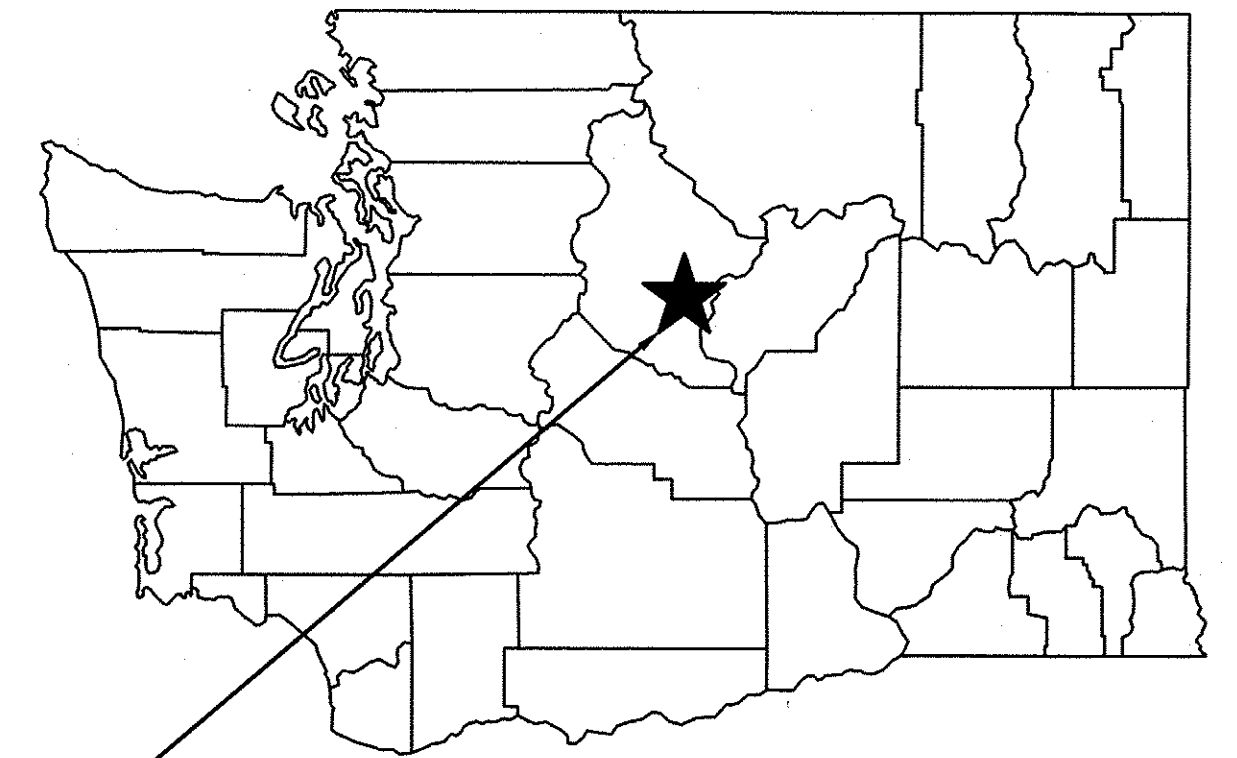
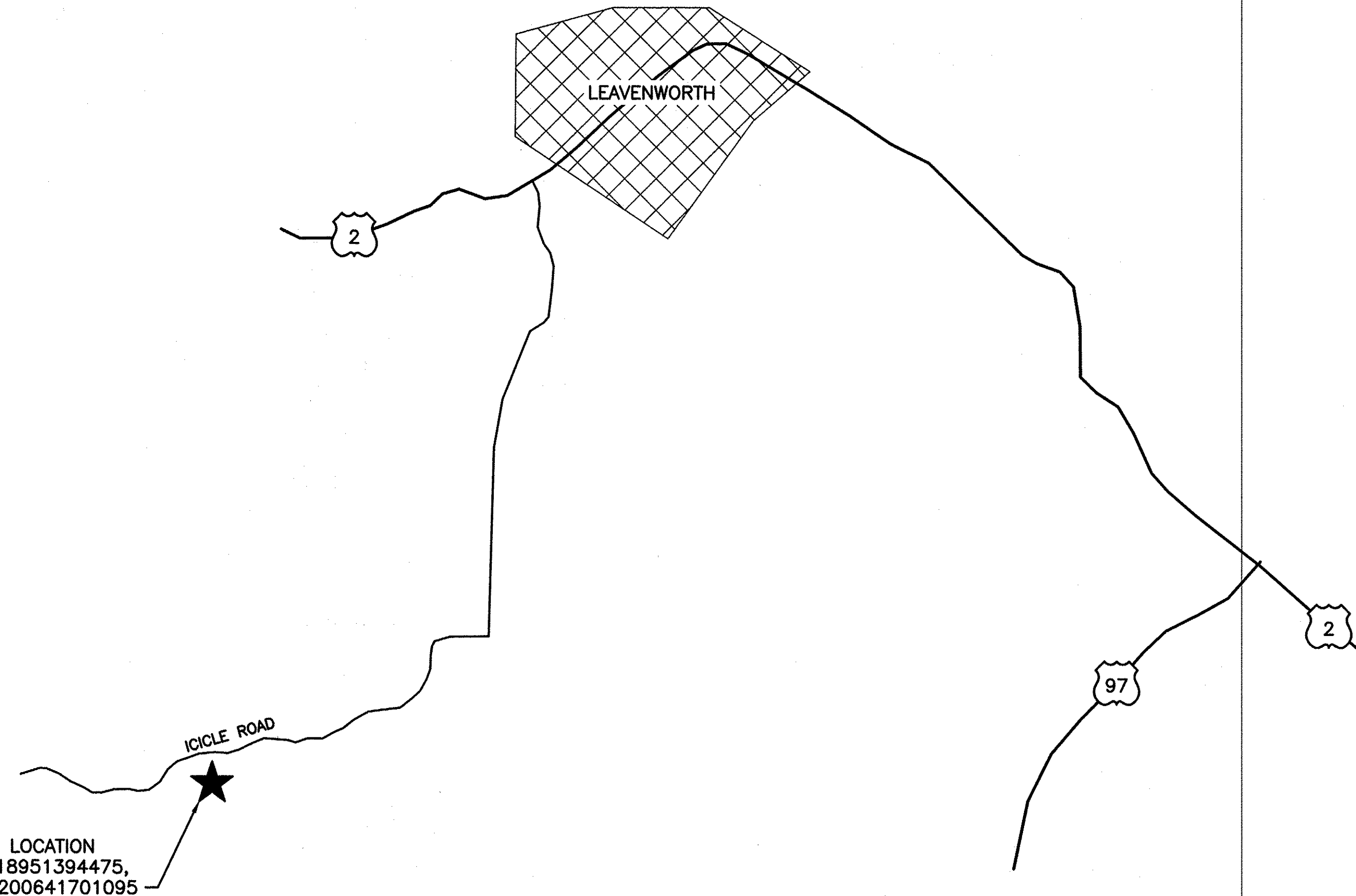




PROJECT LOCATION

STATE MAP
NOT TO SCALE



PROJECT LOCATION
47.542018951394475,
-120.71200641701095

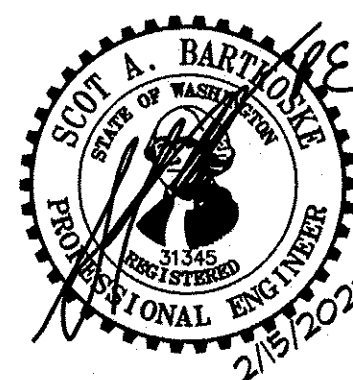
VICINITY MAP
NOT TO SCALE

DRIVING DIRECTIONS:

FROM LEAVENWORTH HEAD WEST ON HIGHWAY 2, TURN
LEFT OF ICICLE ROAD AND CONTINUE FOR 4.2 MILES

ELCON
ASSOCIATES, INC.
ENGINEERS-CONSULTANTS
(206) 243-5022 www.elcon.com
SEATTLE, WA LYNNWOOD, WA
PORTLAND, OR

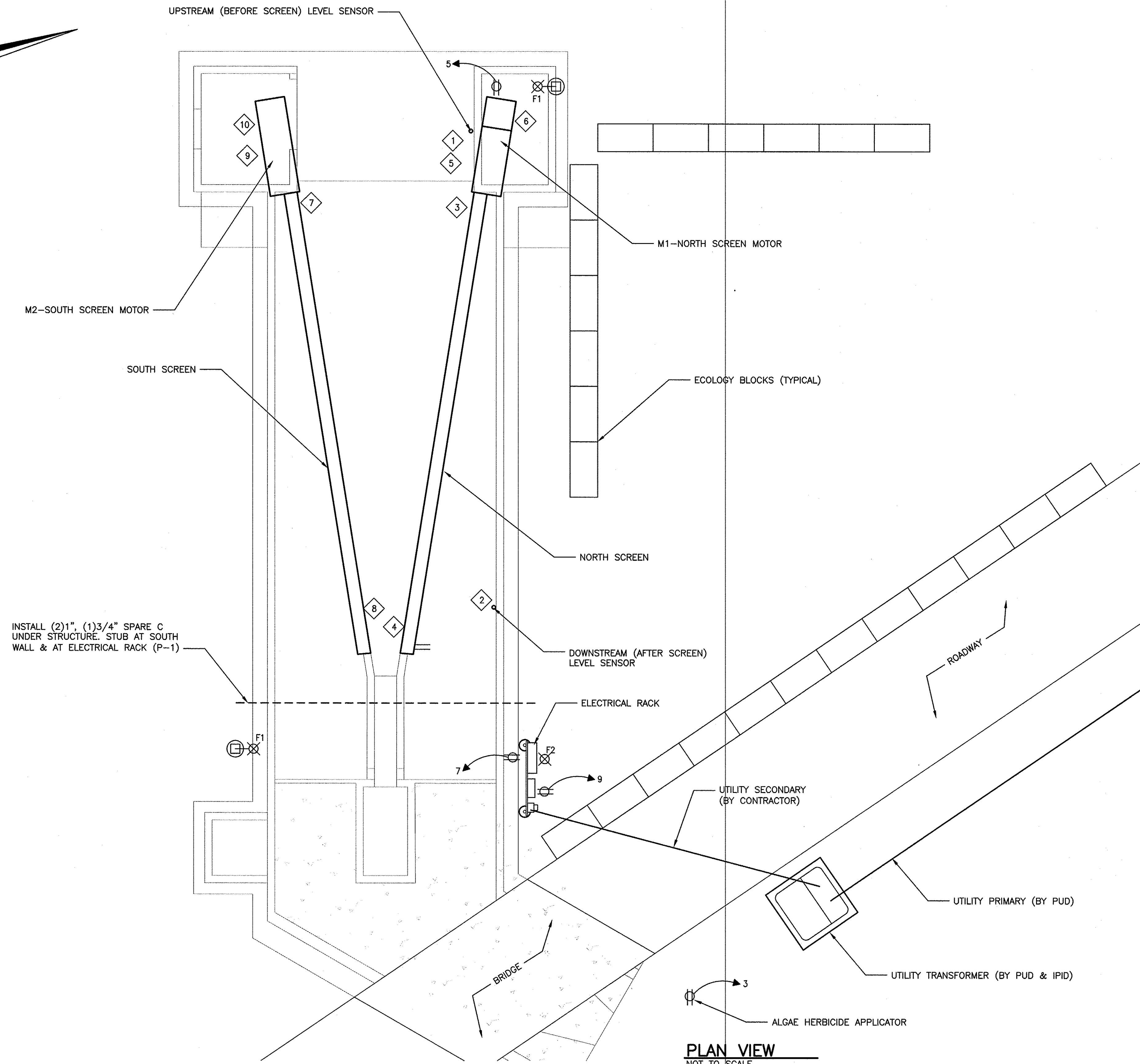
WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



SYM	DATE	REVISION	DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION				
CHIEF ENGINEER	<i>Muller</i>		DATE: 2/16/22	
PROGRAM			DATE: 2-14-2022	

ICICLE-PESHASTIN IRRIGATION DISTRICT	
SNOW CREEK SCREEN - ELECTRICAL & CONTROLS	
VICINITY & STATE MAP	

PROJECT NO. CN:S45:603096:2020-1	
SHEET 1	OF 4



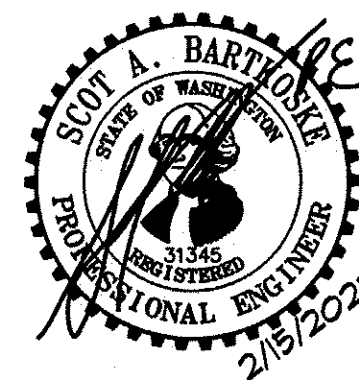
LIMIT SWITCH/SENSOR KEYED NOTES:

- 1 LIT-01 BEFORE-SCREEN LEVEL SENSOR
- 2 LIT-02 AFTER-SCREEN LEVEL SENSOR
- 3 LS-US1 NORTH SCREEN CLEANER; UPSTREAM LIMIT SWITCH
- 4 LS-DS1 NORTH SCREEN CLEANER; DOWNSTREAM LIMIT SWITCH
- 5 TQS-1 NORTH SCREEN CLEANER; HIGH TORQUE SWITCH
- 6 SS-1 NORTH SCREEN CLEANER; IDLER PULLEY SLIP SENSOR
- 7 LS-US2 SOUTH SCREEN CLEANER; UPSTREAM LIMIT SWITCH
- 8 LS-DS2 SOUTH SCREEN CLEANER; DOWNSTREAM LIMIT SWITCH
- 9 TQS-2 SOUTH SCREEN CLEANER; HIGH TORQUE SWITCH
- 10 SS-2 SOUTH SCREEN CLEANER; IDLER PULLEY SLIP SENSOR

PLAN VIEW
NOT TO SCALE

ELCON
ASSOCIATES, INC.
ENGINEERS-CONSULTANTS
(206) 243-5022 www.elcon.com
SEATTLE, WA LYNNWOOD, WA
PORTLAND, OR

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

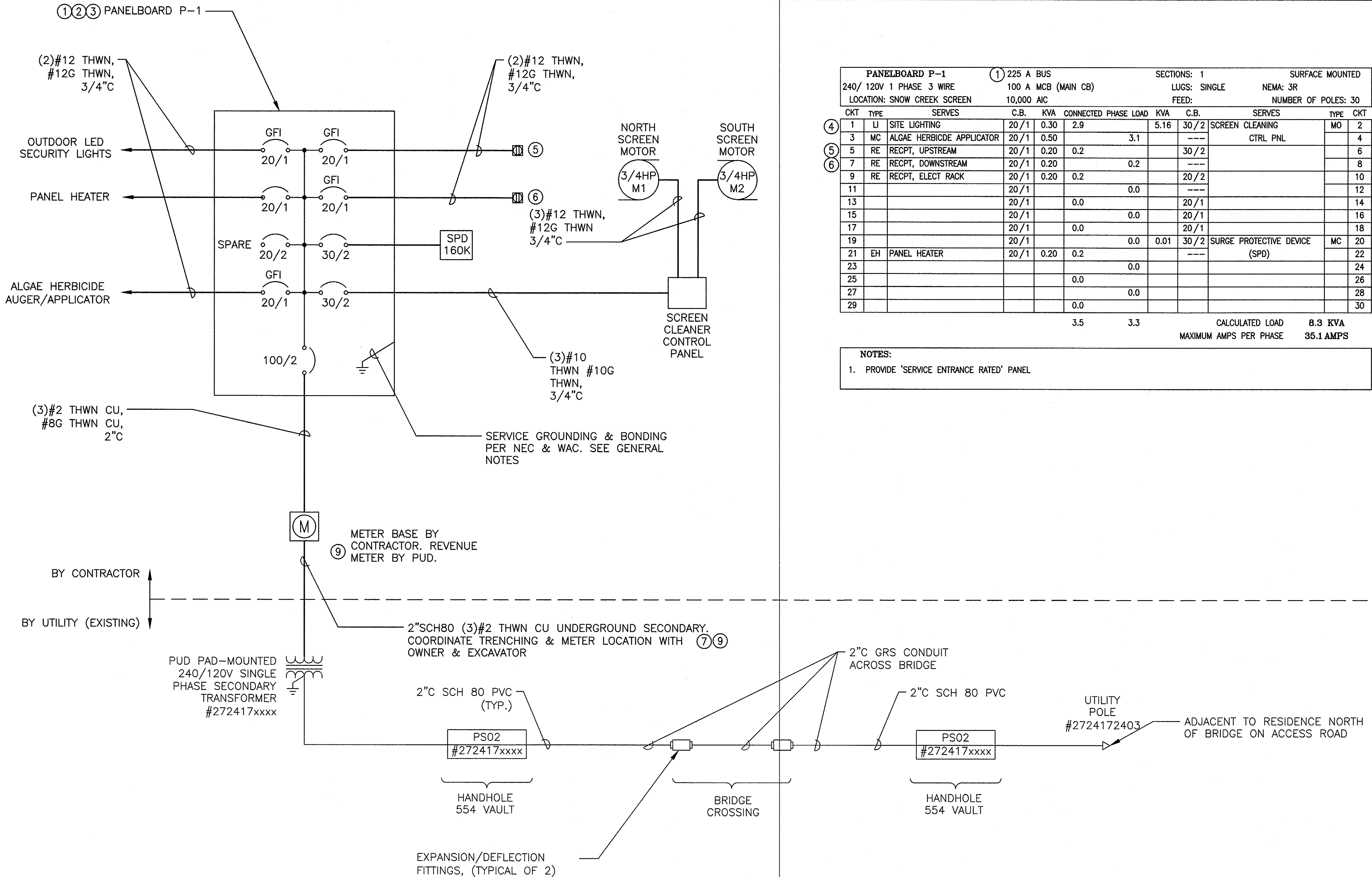


SYM	DATE	REVISION	DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION				
CHIEF ENGINEER	2/16/22			
PROGRAM				

ICICLE-PESHASTIN IRRIGATION DISTRICT		PROJECT NO.	
SNOW CREEK SCREEN - ELECTRICAL & CONTROLS		CN:S45:603096:2020-1	
PLAN VIEW		SHEET	OF
		2	4

Plotted: Feb 15, 2022 - 12:46pm scot Layout: 3-ONE-LINE DIAGRAM
R: \\5650-094.00\\dwgs\\19_2_3_4of4_IPID_Elect.dwg

LIGHT FIXTURE SCHEDULE					
SYMBOL	MANUFACTURER	CATALOG NUMBER	WATT	DESCRIPTION	COMMENTS
F1	HUBBELL	ASL-A-16L4K-210-3-U-DB	123	LED POLE MOUNTED AREA LIGHT	COORDINATE REQUIRED POLE MOUNT HARDWARE
F2	LITHONIA	OLVTCM	15	LED CAGED JAR LIGHT	CEILING (BOX) MOUNT OVER SERVICE EQUIPMENT
POLE	SPAULDING	SHS-20-40-1-TA-DB		SQUARE HINGED STEEL LIGHT POLE	PROVIDE (1 FOR PROJECT) TWH-40 WINCH



PANELBOARD P-1									
240/ 120V 1 PHASE 3 WIRE				1 225 A BUS		SECTIONS: 1		SURFACE MOUNTED	
LOCATION: SNOW CREEK SCREEN				100 A MCB (MAIN CB)		LUGS: SINGLE		NEMA: 3R	
				10,000 AIC		FEED:		NUMBER OF POLES: 30	
CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD	KVA	C.B.	SERVES	TYPE
4	LI	SITE LIGHTING	20/1	0.30	2.9	5.16	30/2	SCREEN CLEANING	MO
3	MC	ALGAE HERBICIDE APPLICATOR	20/1	0.50	3.1			CTRL PNL	
5	RE	RECPT, UPSTREAM	20/1	0.20	0.2		30/2		
7	RE	RECPT, DOWNSTREAM	20/1	0.20	0.2				
9	RE	RECPT, ELECT RACK	20/1	0.20	0.2		20/2		
11			20/1		0.0				
13			20/1		0.0		20/1		
15			20/1		0.0		20/1		
17			20/1		0.0		20/1		
19			20/1		0.0	0.01	30/2	SURGE PROTECTIVE DEVICE (SPD)	MC
21	EH	PANEL HEATER	20/1	0.20	0.2				
23					0.0				
25					0.0				
27					0.0				
29					0.0				
					3.5	3.3	CALCULATED LOAD		
								8.3 KVA	
								35.1 AMPS	

NOTES:
1. PROVIDE 'SERVICE ENTRANCE RATED' PANEL

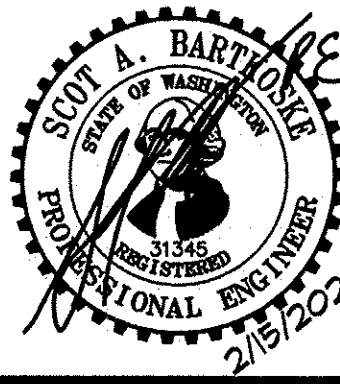
- GENERAL NOTES:**
- COORDINATE WITH CHELAN COUNTY PUD ON SECONDARY CONDUIT/WIRE, AS WELL AS METER BASE LOCATION AND REQUIREMENTS. CONTRACTOR SHALL COORDINATE OUTAGES AND POWER ENERGIZE SCHEDULING.
 - MOST EXCAVATION & STRUCTURE CONSTRUCTION WILL BE DONE BY THE IRRIGATION DISTRICT. COORDINATE ALL CONTRACTOR INSTALLED UNDERGROUND, STRUCTURE PENETRATIONS, STUBS, & EQUIPMENT LOCATIONS EARLY IN THE PROJECT.
 - UNDERGROUND BRANCH AND FEEDER CONDUITS SHALL BE SCH80 PVC. CONDUITS EMERGING AND/OR ABOVE GROUND SHALL BE GRS. ALL METALLIC CONDUITS IN DIRECT CONTACT WITH EARTH OR IN CONCRETE SHALL BE COVERED WITH 10MIL "PIPE WRAP" TAPE AT 1/2 OVERLAP.
 - GROUNDING & BONDING IS NOT SHOWN IN ITS ENTIRETY. PROVIDE A COMPLETE, CODE COMPLIANT GROUNDING SYSTEM, PER NEC & WAC.
 - COORDINATE WITH BUILDER TO STUB OUT REBAR FROM INTAKE STRUCTURE ADJACENT TO PANELBOARD. CONNECT AS "UFER" WITH #4 SOLID BARE CU, USING APPROVED CLAMP.
 - AS GROUND RODS MAY NOT BE PRACTICAL DUE TO THE TERRAIN, THE CONTRACTOR SHALL COORDINATE WITH THE AHJ EARLY IN THE PROJECT, TO ASSURE THAT AHJ SERVICE & EQUIPMENT GROUNDING REQUIREMENTS ARE MET.

- KEYED NOTES:**
- PROVIDE SERVICE ENTRANCE RATED, NEMA 3R, EATON PRL1A 225A COPPER BUSS PANELBOARD WITH 100A MAIN BREAKER; 30 SPACE; 240/120V SINGLE PHASE, 3-WIRE. LOCKABLE BREAKERS (PER NEC 110.25).
 - COORDINATE FINAL EQUIPMENT LOCATIONS IN THE FIELD, BASED ON PROPER CLEARANCES REQUIRED BY CODES.
 - BALANCE SINGLE PHASE LOADS TO MINIMIZE IMBALANCE OF ONE PHASE.
 - COORDINATE EXACT LOCATION(S) OF SITE LIGHTING WITH OWNER/PROJECT MANAGER
 - GFCI WEATHER RESISTANT, OUTLET IN WEATHERPROOF WHILE-IN-USE COVER ON UPSTREAM END OF SCREEN ARRAY. TYPE "FS" MALLEABLE BOXES FOR ALL DEVICES.
 - GFCI WEATHER RESISTANT, OUTLETS IN WEATHERPROOF WHILE-IN-USE COVER ON DOWNSTREAM END OF SCREEN ARRAY. TYPE "FS" MALLEABLE BOXES FOR ALL DEVICES.
 - SECONDARY CONDUIT INSTALLATION SHALL BE COORDINATED WITH TRANSFORMER PAD INSTALLATION
 - COORDINATE CONTROL PANEL POWER REQUIREMENTS WITH PANEL MANUFACTURER.
 - METER BASE SHALL BE 200A AND COMPLY WITH PUD REQUIREMENTS FOR COMMERCIAL 1PH METERING. SERVICE CONDUITS MUST SUPPORT 200A, BUT WIRED FOR 100A AS SHOWN.

ONE-LINE DIAGRAM
NOT TO SCALE

ELCON
ASSOCIATES, INC.
ENGINEERS-CONSULTANTS
(206) 243-5022 www.elcon.com
SEATTLE, WA LYNNWOOD, WA
PORTLAND, OR

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



SYM	DATE	REVISION	DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION				
CHIEF ENGINEER				DATE: 2/16/22
PROGRAM				DATE: 2-14-2022

ICICLE-PESHASTIN IRRIGATION DISTRICT
SNOW CREEK SCREEN - ELECTRICAL & CONTROLS
ONE-LINE DIAGRAM

PROJECT NO.
CN:S45:603096:2020-1
SHEET 3 OF 4



LIMIT SWITCH/SENSOR KEYED NOTES:

- | | |
|----|--|
| 1 | LIT-01 BEFORE--SCREEN LEVEL SENSOR |
| 2 | LIT-02 AFTER--SCREEN LEVEL SENSOR |
| 3 | LS-US1 NORTH SCREEN CLEANER; UPSTREAM LIMIT SWITCH |
| 4 | LS-DS1 NORTH SCREEN CLEANER; DOWNSTREAM LIMIT SWITCH |
| 5 | TQS-1 NORTH SCREEN CLEANER; HIGH TORQUE SWITCH |
| 6 | SS-1 NORTH SCREEN CLEANER; IDLER PULLEY SLIP SENSOR |
| 7 | LS-US2 SOUTH SCREEN CLEANER; UPSTREAM LIMIT SWITCH |
| 8 | LS-DS2 SOUTH SCREEN CLEANER; DOWNSTREAM LIMIT SWITCH |
| 9 | TQS-2 SOUTH SCREEN CLEANER; HIGH TORQUE SWITCH |
| 10 | SS-2 SOUTH SCREEN CLEANER; IDLER PULLEY SLIP SENSOR |

GENERAL NOTES:

1. COORDINATE FINAL LOCATION OF STILLING--WELL(S) IN THE FIELD WITH IPID & WDFW. VERIFY OPTIMUM LENGTH & POSITION OF PIPE BEFORE INSTALLING.
2. SENSORS & LIMIT SWITCHES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. COORDINATE WITH SCREEN INSTALLER FOR EXACT LOCATIONS & CONNECTION TIMING.
3. WIRES FOR LIMIT SWITCHES MAY BE GROUPED IN A COMMON CONDUIT. MAX (9) WIRES PER RUN. USE A DIFFERENT COLOR FOR EACH FAIR. IDENTIFY WIRES AT EACH PULL/JUNCTION POINT. OBSERVE NEC/WAC PIPE FILL & DERATING REQUIREMENTS.
4. GROUNDING & BONDING IS NOT SHOWN IN IT'S ENTIRETY. PROVIDE A COMPLETE, CODE COMPLIANT GROUNDING SYSTEM, PER NEC & WAC.
5. COORDINATE WITH VERIFIER TO STUB OUT REBAR FROM INTAKE STRUCTURE ADJACENT TO PANELBOARD. CONNECT AS "UFER" WITH #4 SOLID BARE CU, USING APPROVED CLAMP.
6. AS GROUND RODS MAY NOT BE PRACTICAL DUE TO THE TERRAIN, THE CONTRACTOR SHALL COORDINATE WITH THE AHJ EARLY IN THE PROJECT, TO ASSURE THAT AHJ SERVICE & EQUIPMENT GROUNDING REQUIREMENTS ARE MET.
7. EQUIPMENT ELEVATIONS SHOWN LINEAR, FOR CLARITY. COORDINATE LOCATIONS OF ALL EQUIPMENT/DEVICES IN THE FIELD.

ABBREVIATIONS:

AFCI:	ARC-FAULT CIRCUIT INTERRUPTER
AFG:	ABOVE FINISHED GRADE
AL:	ALUMINUM (BUSS/CONDUCTOR)
BFG:	BELOW FINISHED GRADE
BLDG:	BUILDING
BRKR:	BREAKER/CIRCUIT BREAKER
CKT:	CIRCUIT
CU:	COPPER (BUSS/CONDUCTOR)
EGC:	EQUIPMENT GROUNDING CONDUCTOR
EX:	EXISTING
GEC:	GROUNDING ELECTRODE CONDUCTOR
GFCI:	GROUND FAULT CIRCUIT INTERRUPTER
GRS:	GALVANIZED RIGID STEEL
HM:	HANDHOLE/ELECTRICAL VAULT
IPID:	ICICLE/PESHASTIN IRRIGATION DISTRICT (OWNER)
LTf:	LIQUIDTIGHT FLEXIBLE CONDUIT (LFMC)
OH:	OVERHEAD
PUD:	LOCAL POWER UTILITY PROVIDER
TSP:	TWISTED, SHIELDED PAIR
UF:	UNFUSED
UG:	UNDERGROUND