

O:\2018\180624 New Full Service Park Design Services\Drawings\Sheets\Phase 3\1-General Sheets\G1.2 Sheet List - BID SET 1.dwg
Jun-16-25 4:03pm

GENERAL SHEETS

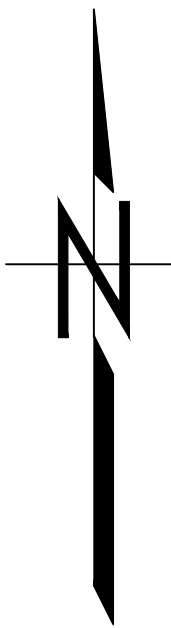
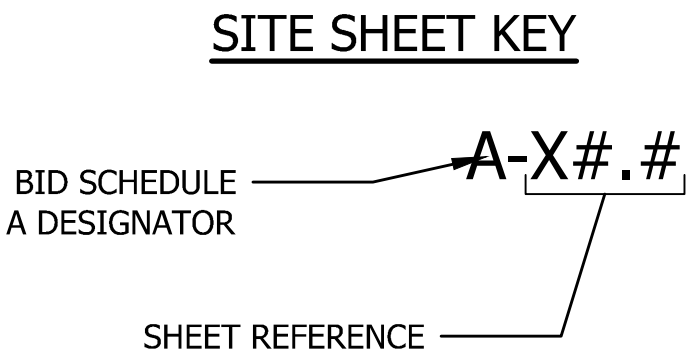
SHEET	#	DESCRIPTION
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G1.1	2	PROJECT TEAM & NOTES
G1.2	3	SHEET LIST
G1.3	4	SHEET LIST
G2.0	5	KEY MAP
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G3.0	7	BORROW PIT HAUL ROUTE

SCHEDULE A DRAWING SHEETS

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SHEET	#	DESCRIPTION
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PRIVATE IMPROVEMENTS

DEVELOPMENT ENGINEER
PIERCE COUNTY ORDINANCE NUMBER **2021-45**

1001191
PERMIT #
01-05-2023
DATE

1. CONTACT **Dennis Peterson**, THE AREA INSPECTOR, AT 253-798- **2539**, TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF CONSTRUCTION.
2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.
3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

CAD NO.

6/11/2025

DATE

APP.

INT.

REVISIONS

ADDENDUM #1:
-ADJUSTED SHEET #
-ADDED ELECTRICAL SHEETS



A1 ADDENDUM #1

NO.

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION

NISQUALLY
STATE PARK

PHASE 3A
MAINTENANCE
BUILDING
AND WWTF

SHEET LIST

G1.2



SCALE

PARKS FILE#

PRIVATE IMPROVEMENTS

1001191
PERMIT #
01-05-2023
DATE

DEVELOPMENT ENGINEER
PIERCE COUNTY ORDINANCE NUMBER 2021-45
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CAD NO.	
6/13/2025	DATE
	APP.
	INT.
ADDENDUM #1: -ADDED CALLOUTS FOR SIGN INSTALLATION FOR CLARITY	<div>A1</div>
	REVISIONS
<div>A1</div> ADDENDUM #1	NO.

PRIVATE IMPROVEMENTS

DEVELOPMENT ENGINEER
PIERCE COUNTY ORDINANCE NUMBER 2021-45

1001191
PERMIT #
01-05-2023
DATE

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CAD NO.

6/13/2025

DATE

APP.

INT.

ADDENDUM #1:
-ADJUSTED TO REMOVE ELECTRICAL NOTES FOR MANUAL SLIDE GATE.

REVISIONS

NO.

ADDENDUM #1

ACTION

BY

DATE

DESIGNED

DRAWN

CHECKED (FIELD)

CHECKED (HDQTS.)



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



NISQUALLY
STATE PARK

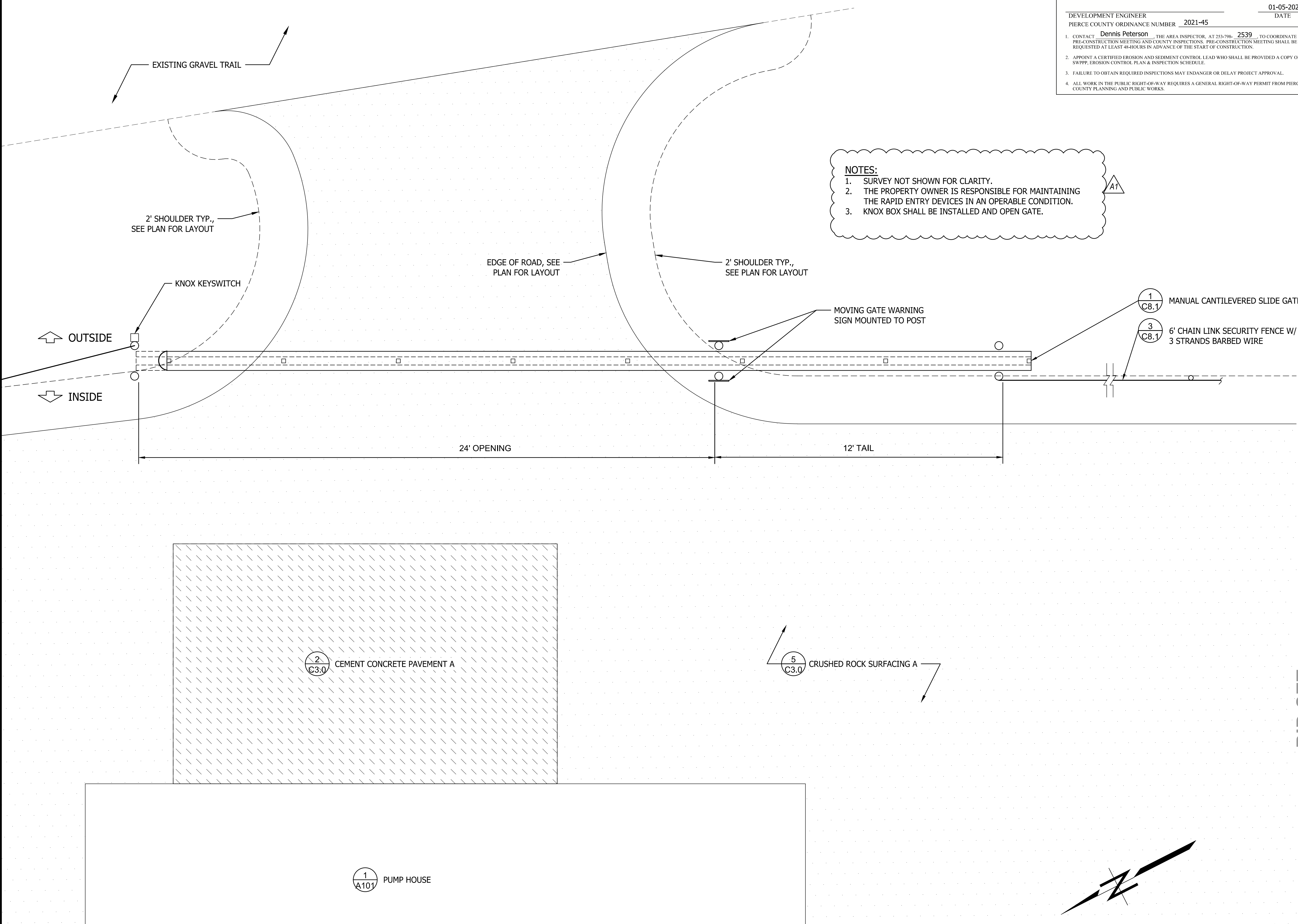
PHASE 3A
MAINTENANCE
BUILDING
AND WWTF

GATE LAYOUT -
PUMP HOUSE
A-C8.0

SCALE

AS SHOWN

PARKS FILE#



TOPSOIL SCHEDULE

SYMBOL	DESCRIPTION	QTY
	3" BARK MULCH	1,400 SF
	3" TOPSOIL TYPE A W/ 3" BARK MULCH	8,600 SF
	3" WOOD CHIPS	4,760 SF

PLANTING SCHEDULE

	PLANT MIX - 8,600 SF MAHONIA AQUIFOLIUM / OREGON GRAPE POLYSTICHUM MUNITUM / WESTERN SWORD FERN SYMPHORICARPOS ALBUS / COMMON WHITE SNOWBERRY	QTY 300 300 400	SPACING 30% @ 36" oc 30% @ 36" oc 40% @ 36" oc	SIZE PLUG PLUG PLUG
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PRIVATE IMPROVEMENTS

DEVELOPMENT ENGINEER
PIERCE COUNTY ORDINANCE NUMBER 2021-45

1001191
PERMIT #
01-05-2023
DATE

- CONTACT DENNIS PETERSON, THE AREA INSPECTOR, AT 253-798-2539 TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.
- APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.
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CAD NO.

6/13/2025

DATE

APP.

INT.

REVISIONS

NO.

ADDENDUM #1:
-ADJUSTED HATCH AREA FOR RESTORATION



A1 ADDENDUM #1

ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDOTS.)		



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



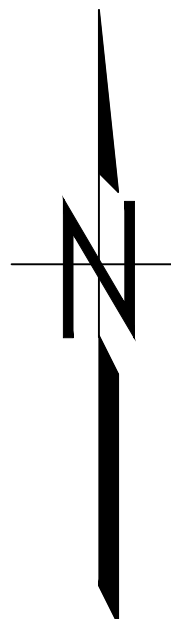
NISQUALLY
STATE PARK

PHASE 3A
MAINTENANCE
BUILDING
AND WWTF
RESTORATION
PLAN - MAINT.
BLDG.
A-L1.1

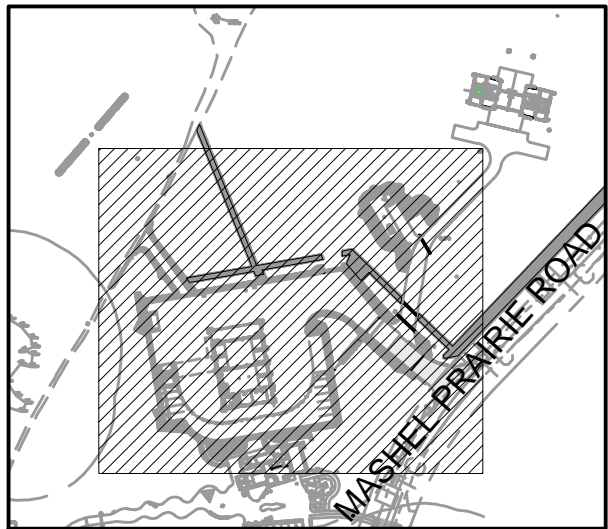
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PARKS FILE#

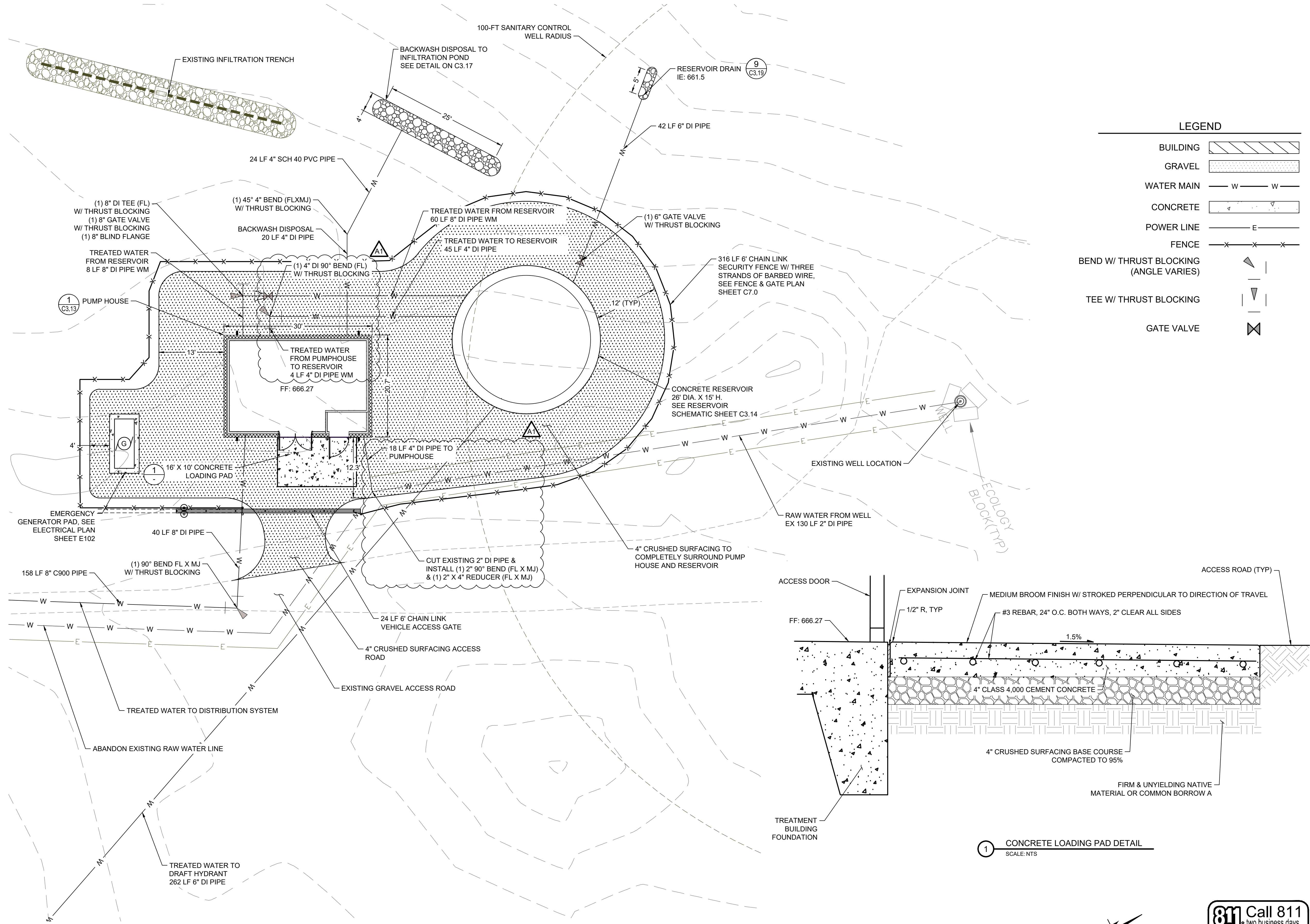
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KEYMAP (NTS)



SHEET 37 OF 226



LEGEND

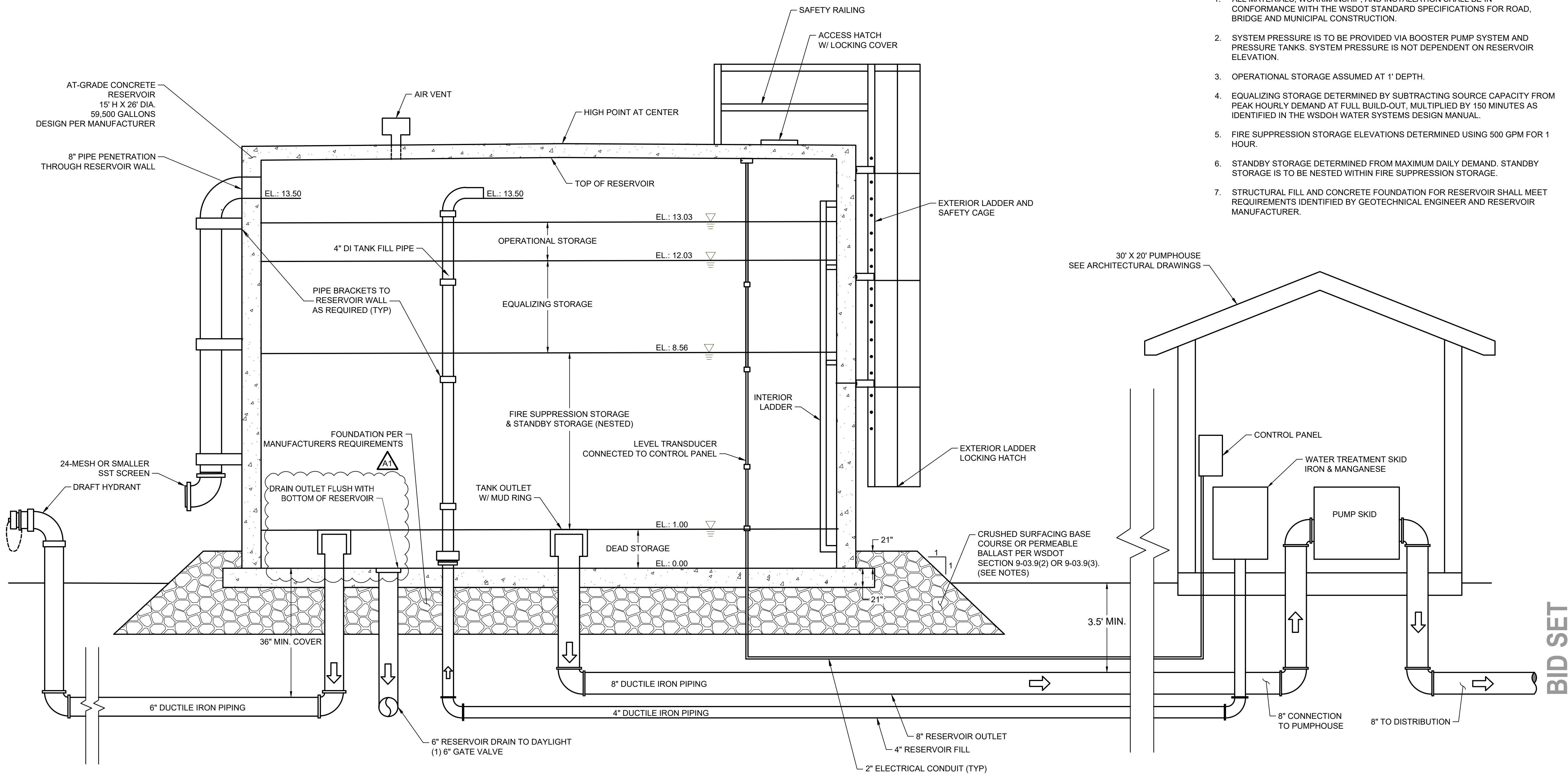
BUILDING	
GRAVEL	
WATER MAIN	
CONCRETE	
POWER LINE	
FENCE	
BEND W/ THRUST BLOCKING (ANGLE VARIES)	
TEE W/ THRUST BLOCKING	
GATE VALVE	

1 CONCRETE LOADING PAD DETAIL
SCALE: NTS



CAD NO.		
6/6/2025		DATE
SDS		APP.
SD		INT.
ADDENDA 1: WATER PLAN AND DETAILS REVISIONS		
NO.		
ACTION		
DESIGNED	SDS	04/03/2025
DRAWN	SD	04/03/2025
CHECKED (FIELD)		
CHECKED (HDQTS.)		
REGISTERED STAMP		
WASHINGTON STATE PARKS AND RECREATION COMMISSION		
NISQUALLY STATE PARK		
PHASE 3A MAINTENANCE BUILDING AND WWTF PUMP HOUSE AREA IMPROVEMENT PLAN C3.12		
SCALE 0 10 20 SCALE IN FEET		
PARKS FILE#		

I:\2019\10181900030 - Nisqually State Park\CADD\DWG\PHASE 3\C3.12 THRU C3.16 - UTILITY DETAILS.dwg
Jun-06-25 3:41pm



NOTES:

RESERVOIR AND APPURTENANCES SHALL BE PACKAGED SYSTEM FROM MT. BAKER SILO, INC. OR ENGINEER APPROVED EQUIVALENT

1. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
2. SYSTEM PRESSURE IS TO BE PROVIDED VIA BOOSTER PUMP SYSTEM AND PRESSURE TANKS. SYSTEM PRESSURE IS NOT DEPENDENT ON RESERVOIR ELEVATION.
3. OPERATIONAL STORAGE ASSUMED AT 1' DEPTH.
4. EQUALIZING STORAGE DETERMINED BY SUBTRACTING SOURCE CAPACITY FROM PEAK HOURLY DEMAND AT FULL BUILD-OUT, MULTIPLIED BY 150 MINUTES AS IDENTIFIED IN THE WSDOH WATER SYSTEMS DESIGN MANUAL.
5. FIRE SUPPRESSION STORAGE ELEVATIONS DETERMINED USING 500 GPM FOR 1 HOUR.
6. STANDBY STORAGE DETERMINED FROM MAXIMUM DAILY DEMAND. STANDBY STORAGE IS TO BE NESTED WITHIN FIRE SUPPRESSION STORAGE.
7. STRUCTURAL FILL AND CONCRETE FOUNDATION FOR RESERVOIR SHALL MEET REQUIREMENTS IDENTIFIED BY GEOTECHNICAL ENGINEER AND RESERVOIR MANUFACTURER.

RESEVOIR PROFILE VIEW

NOT TO SCALE
(INITIAL LEVEL SETTINGS SHOWN)

PUMP HOUSE PROFILE VIEW

NOT TO SCALE

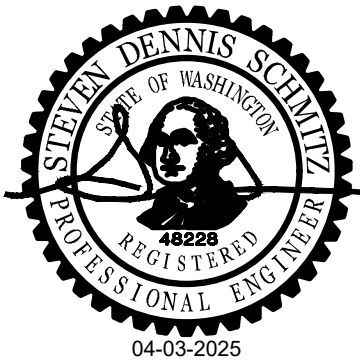


SHEET 107 OF 226

CAD NO.

6/6/2025	DATE
SDS	APP.
SD	INT.
ADDENDA 1: WATER PLAN AND DETAILS REVISIONS	REVISIONS
NO.	NO.

ACTION	BY	DATE
DESIGNED	SDS	04/03/2025
DRAWN	SD	04/03/2025
CHECKED (FIELD)		
CHECKED (HDQTS.)		



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



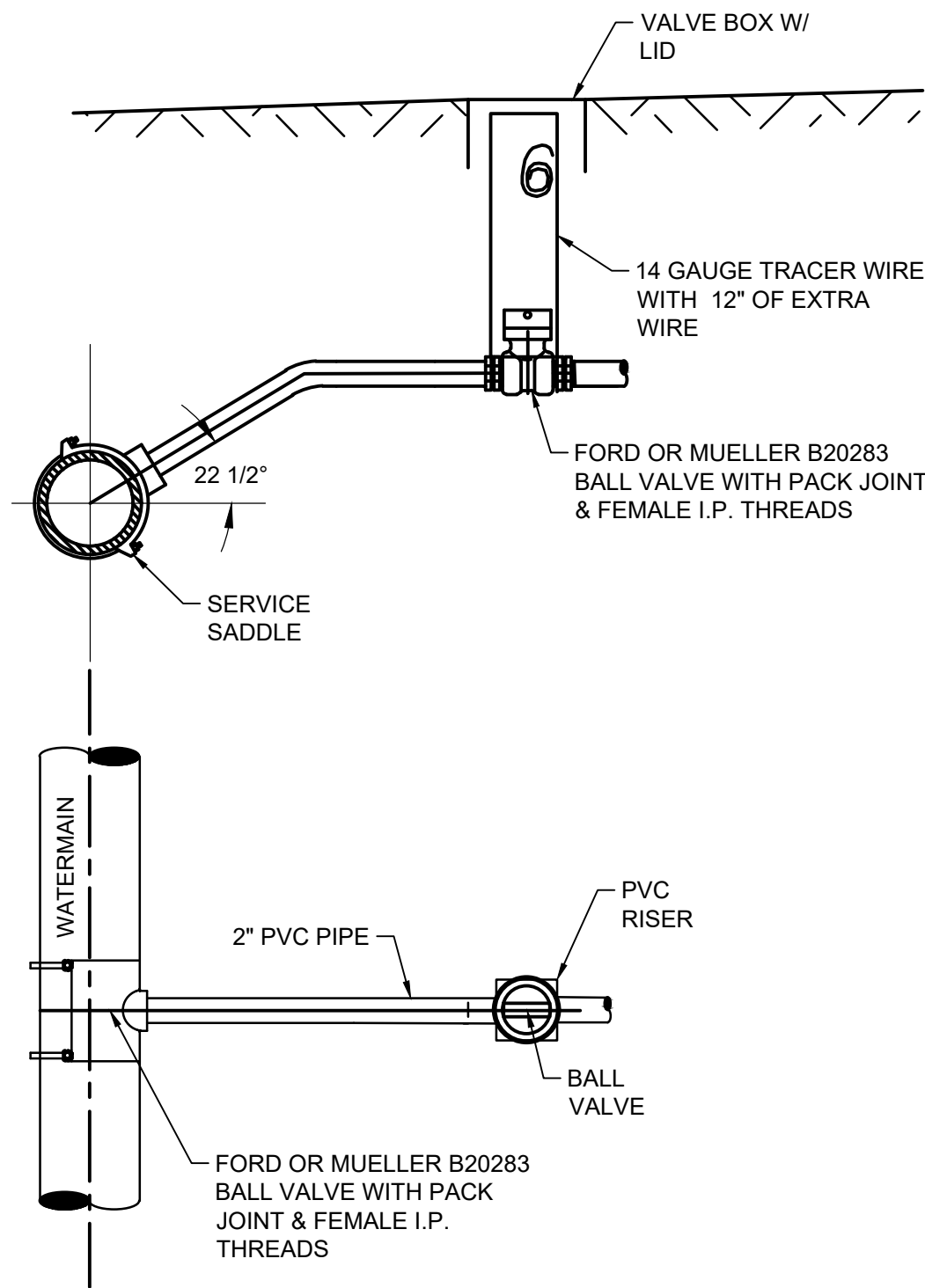
NISQUALLY
STATE PARK

PHASE 3A
MAINTENANCE
BUILDING
AND WWTF
RESERVOIR
SCHEMATIC
C3.14

SCALE

NTS

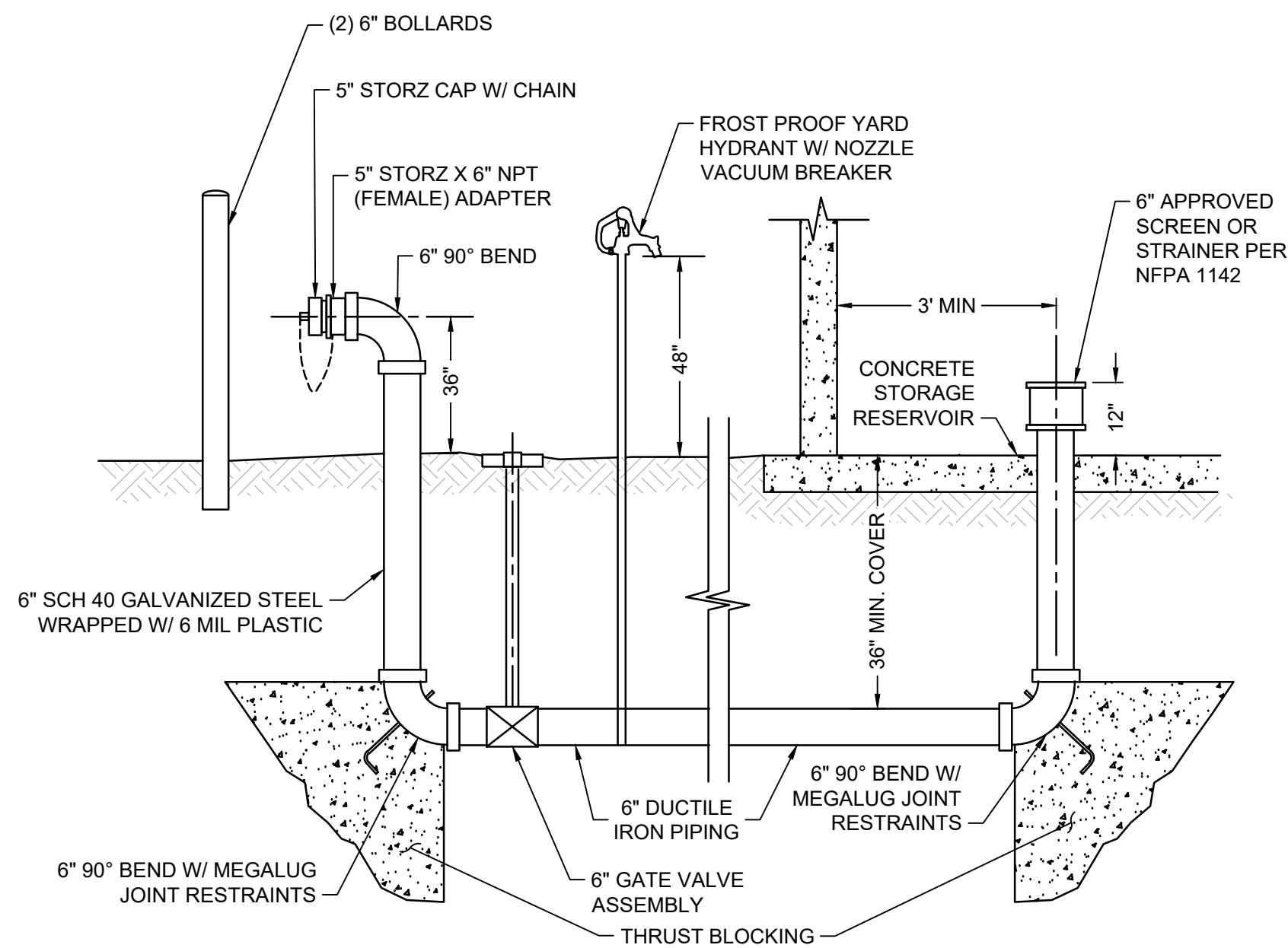
PARKS FILE#



NOTES:

1. STAINLESS STEEL INSERTS REQUIRED FOR ALL PACK JOINTS.
2. ALL SERVICE SADDLES SHALL HAVE RUBBER GASKET AND I.P. THREADS

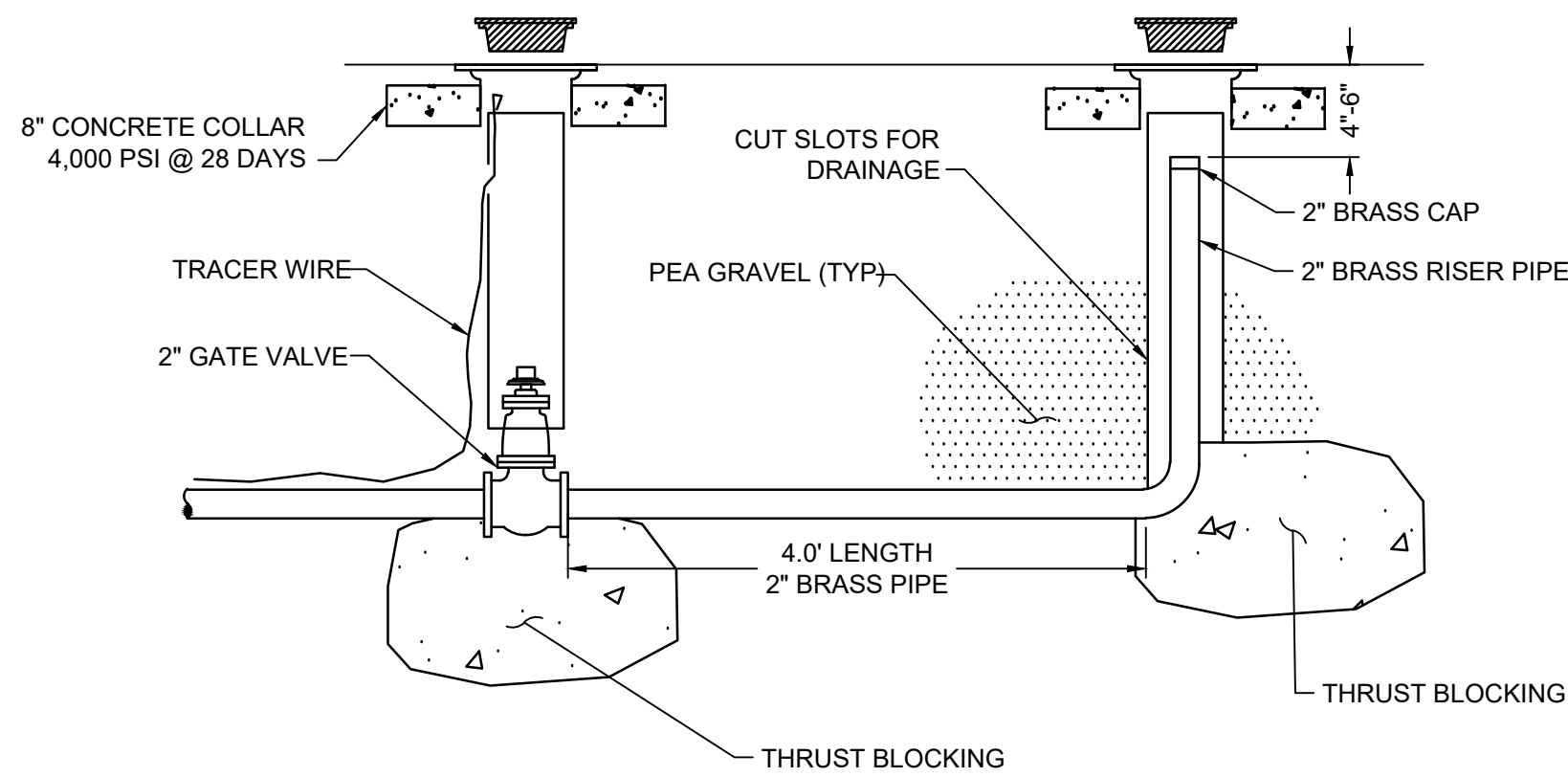
5 WATER SERVICE CONNECTION DETAIL
SCALE: NTS



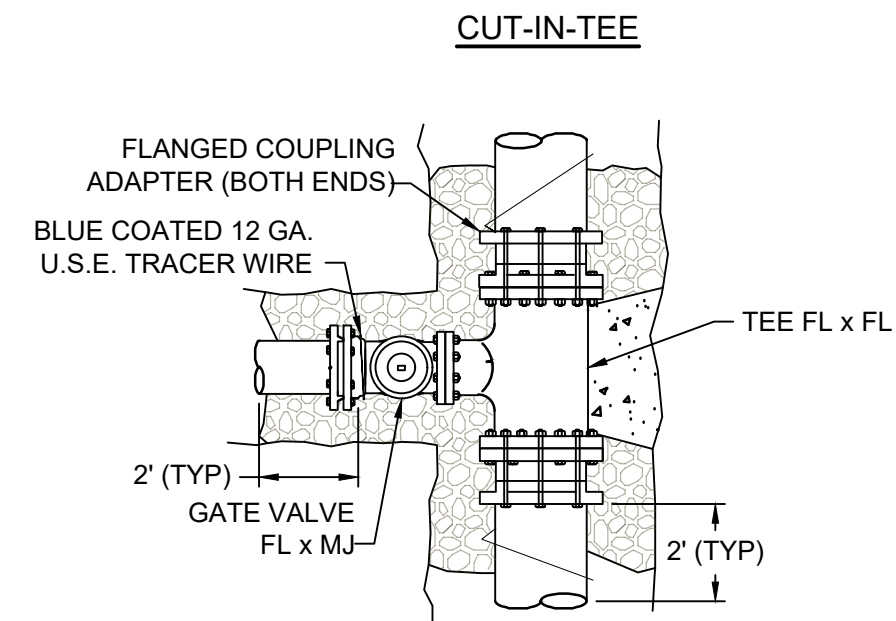
NOTES:

1. DRAFT HYDRANT TO BE CENTERED BETWEEN EXISTING FENCE POSTS. FINAL LOCATION TO BE COORDINATED WITH ENGINEER AND APPROVED BY OWNERS REPRESENTATIVE.
2. ENSURE 36" CLEAR AREA SURROUNDING DRAFT HYDRANT OUTLET.

8 DRAFT HYDRANT DETAIL
SCALE: NTS



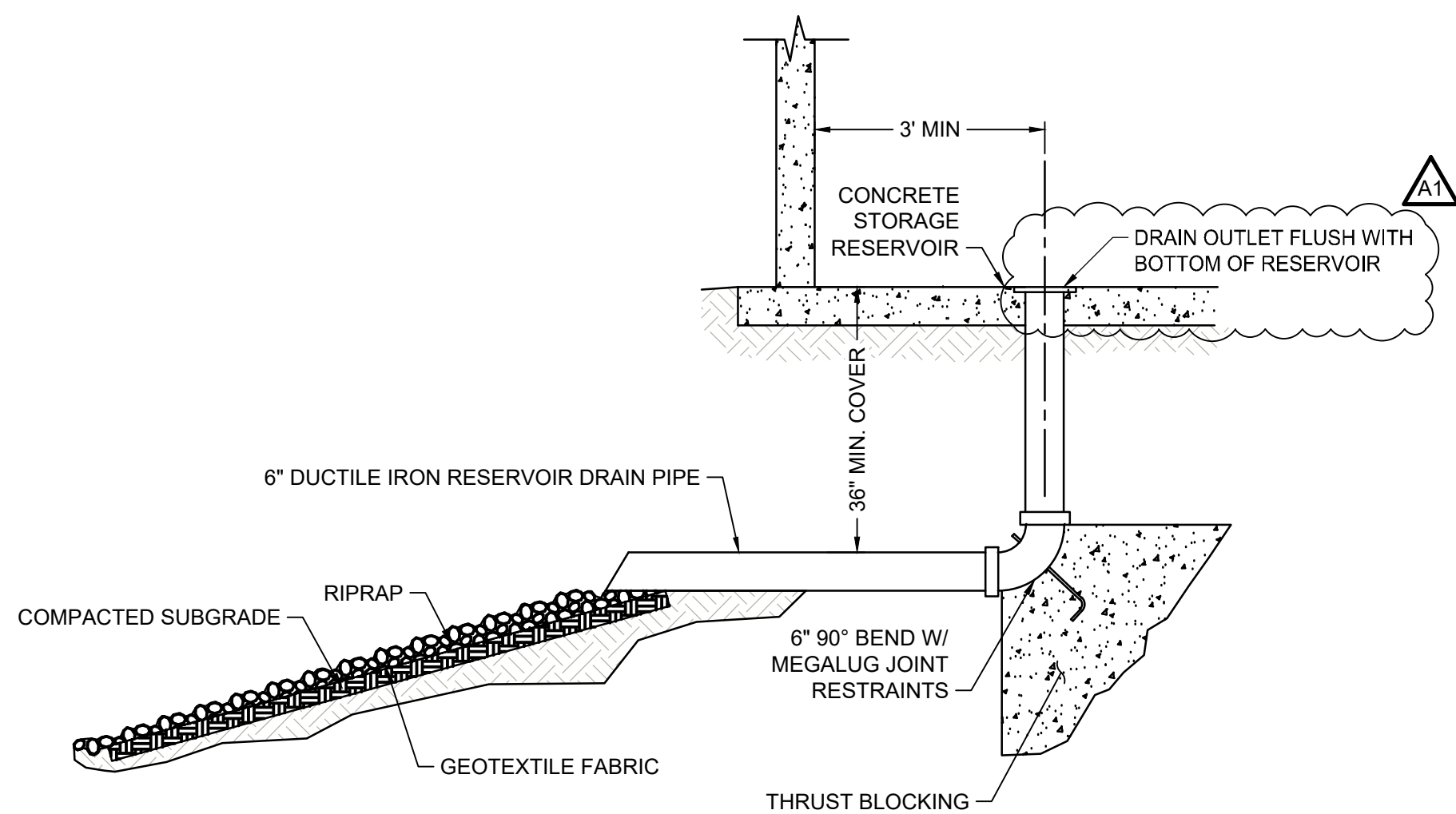
6 2" BLOWOFF DETAIL
SCALE: NTS



NOTES:

1. 11 MIL. PLASTIC OR CONSTRUCTION FABRIC SHALL BE WRAPPED AROUND PIPE AND FITTING BEFORE THRUST BLOCK OR CDF BACKFILL ARE POURED.
2. CONTROLLED DENSITY FILL SHALL CONSIST OF 1750# SAND, 1750# PEA GRAVEL, 230# WATER, 141# CEMENT, 6 OUNCES WATER REDUCING AGENT PER 100# CEMENT.
3. THE EXISTING LINE, TAPPING SLEEVE AND VALVE SHALL BE SUPPORTED THROUGHOUT THE ENTIRE PROCESS WHEN TAPPING THE EXISTING MAIN.
4. CONNECT TO EXISTING TRACER WIRE, IF PRESENT.
5. CUTTING AC PIPE REQUIRES PROPER AC CUTTING AND DISPOSAL PRACTICES BE FOLLOWED.
6. ADDITIONAL VALVES MAY BE REQUIRED WITH CUT IN TEE

7 CONNECTION TO EXISTING LINE DETAIL
SCALE: NTS



RIP RAP NOTES:

1. RIP RAP SHALL CONFORM WITH WSDOT STD SPEC SECTION 9-13.1
2. RIP RAP SHALL BE REASONABLY WELL GRADED ASSORTMENT OF ROCK WITH THE FOLLOWING GRADATION:

MAXIMUM STONE SIZE = 18"
MEDIAN STONE SIZE = 12"
MINIMUM STONE SIZE = 6"
3. ARMOR SHALL BE A MINIMUM OF 5' EACH SIDE OF OUTFALL.


9 RESERVOIR DRAIN AND OUTFALL DETAIL
SCALE: NTS

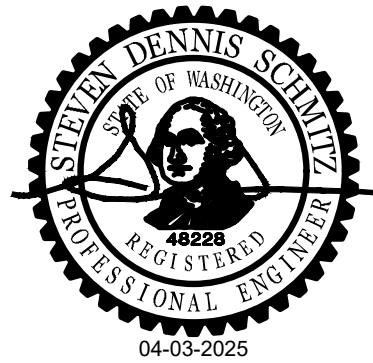


CAD NO.

6/6/2025	DATE
SDS	APP.
SD	INT.

ADDENDA 1: WATER PLAN AND
DETAILS REVISIONS

		NO.
ACTION	BY	DATE
DESIGNED	SDS	04/03/2025
DRAWN	SD	04/03/2025
CHECKED (FIELD)		
CHECKED (HDQTS.)		



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



NISQUALLY
STATE PARK

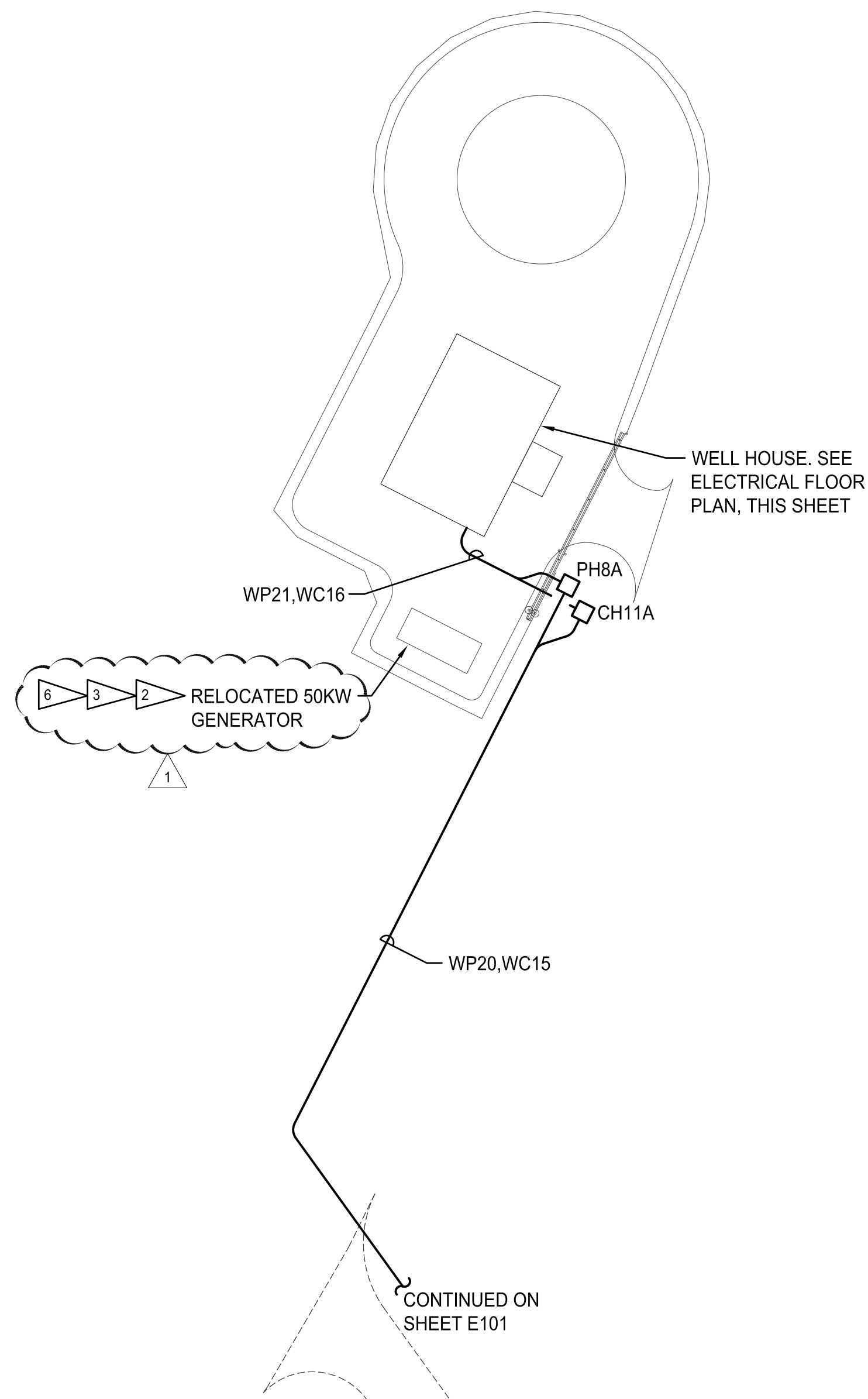
PHASE 3A
MAINTENANCE
BUILDING
AND WWTF
WATER DETAILS
C3.19

SCALE

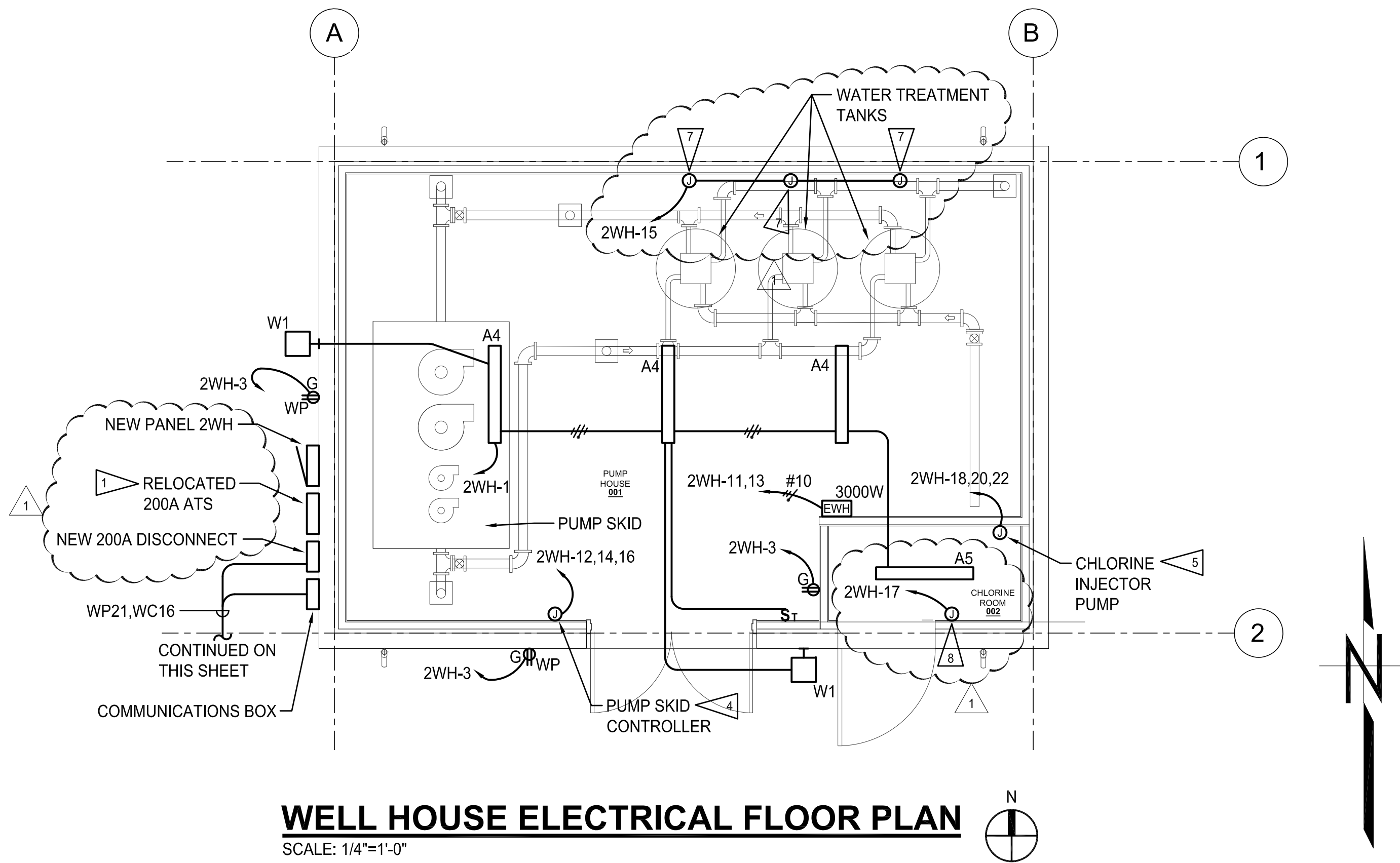
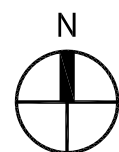
NTS

PARKS FILE#

BID SET



PUMP HOUSE PARTIAL ELECTRICAL SITE PLAN
SCALE: 1"=20'-0"

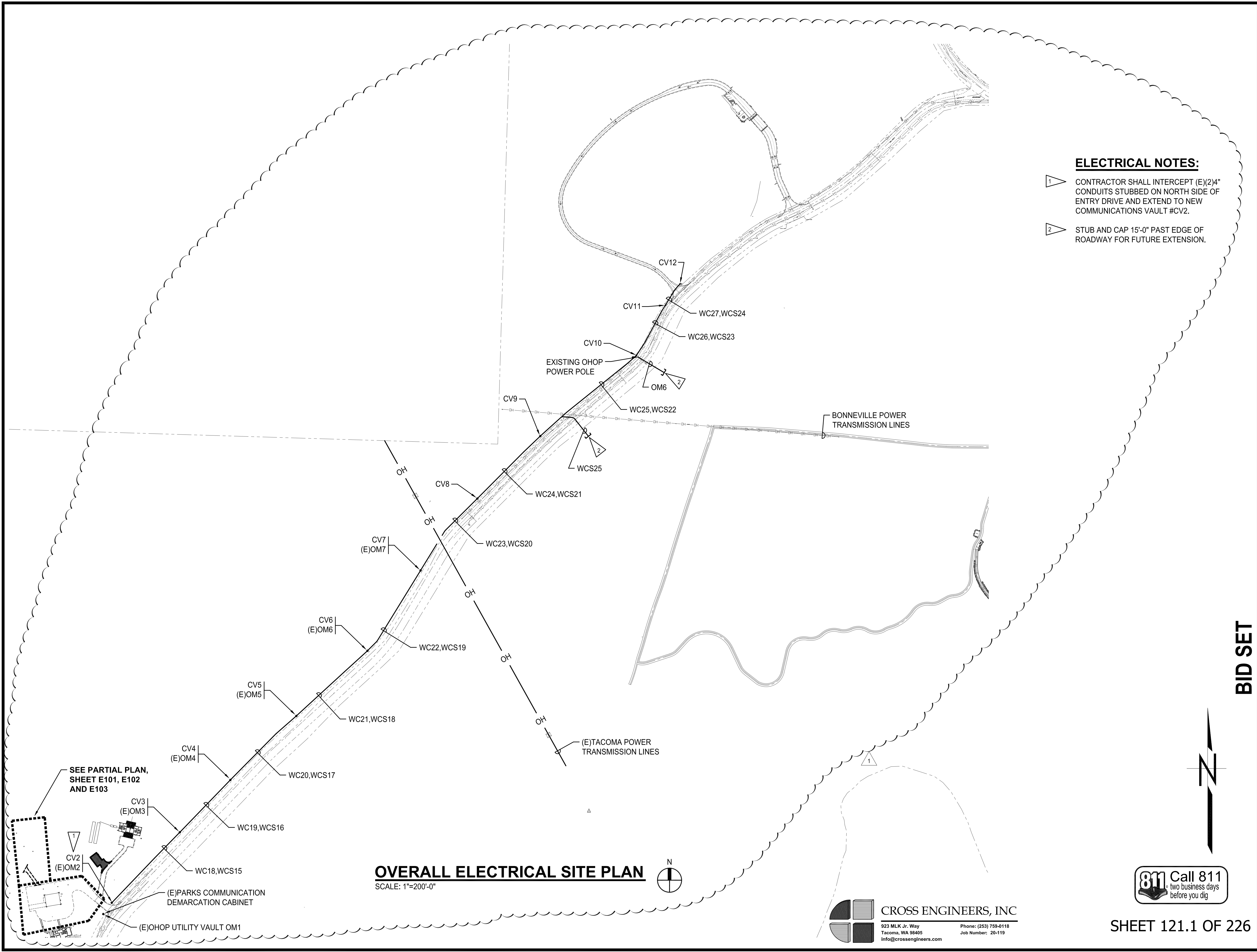


WELL HOUSE ELECTRICAL FLOOR PLAN
SCALE: 1/4"=1'-0"



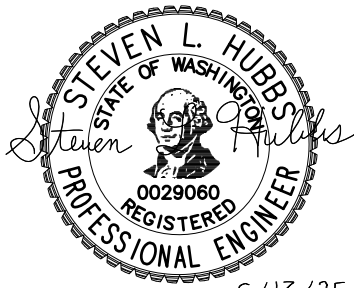
- ELECTRICAL NOTES:**
- RELOCATED ATS FROM TEMPORARY PUMP HOUSE. COORDINATE REMOVAL OF EXISTING ATS FOR RELOCATION WITH SHUTDOWN OF WELL SERVICE.
 - CONTRACTOR SHALL PROVIDE 10", REINFORCED, CONCRETE PAD FOR RELOCATED GENERATOR FROM TEMP PUMP HOUSE. CONCRETE PAD SHALL BE 4" ABOVE FINISHED GRADE AND EXTEND 12" PAST FOOTPRINT OF GENERATOR ON ALL FOUR SIDES.
 - CONTRACTOR SHALL PROVIDE 1"C-(3)#12 CU & (1)#12 CU GRD FROM PANEL 2WH, CIRCUITS #8, 10 TO GENERATOR FOR BATTERY CHARGER AND BLOCK HEATER CONNECTIONS.
 - PUMP SKID CONTROLLER CONNECTION. PROVIDE 1"C-(4)#6 CU & (1)#10 CU GRD FROM CONTROLLER TO PANEL 2WH, CIRCUITS #12, 14, 16. FIELD VERIFY ELECTRICAL REQUIREMENTS WITH PUMP SHOP DRAWINGS AND PUMP INSTALLER PRIOR TO ROUGH-IN.
 - CHLORINE INJECTOR PUMP CONNECTION. PROVIDE 3/4"C-(4)#12 CU & (1)#12 CU GRD FROM CONTROLLER TO PANEL 2WH, CIRCUITS #18, 20, 22. FIELD VERIFY ELECTRICAL REQUIREMENTS WITH PUMP SHOP DRAWINGS AND PUMP INSTALLER PRIOR TO ROUGH-IN.
 - COORDINATE REMOVAL OF EXISTING GENERATOR AT TEMPORARY PUMP HOUSE FOR RELOCATION WITH SHUTDOWN OF WELL SERVICE.
 - WATER TREATMENT TANK CONTROLLER CONNECTION.
 - EXHAUST FAN CONNECTION. COORDINATE LOCATION WITH EXHAUST FAN INSTALLATION.

NEW - NEMA 3R									
SURFACE MOUNTING									
10,000 AIC									
PANEL SCHEDULE									
NO. 2WH		LOCATION: WELL HOUSE				120/208 VOLTS 3PHASE 4WIRE			
		SERVING: EQUIPMENT				200 AMPS WITH MAIN LUGS			
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.	TRIP AMPS	TRIP AMPS
1	LIGHTS	.10	20	30	6.30	WELL PUMP (5HP)	2	20	30
3	RECEPTACLES	.54	20	30	6.30	WELL PUMP (5HP)	4	20	30
5	JOCKEY PUMP (1.5HP)	2.48	15	30	6.30	WELL PUMP (5HP)	6	20	30
7							8	20	30
9							10	20	30
11	WALL HEATER	3.00	30	60	11.59	PUMP SKID	12	20	30
13							14	20	30
15	TANK CONTROLLERS	.86	20	30	6.30	WELL PUMP (5HP)	16	20	30
17	EXHAUST FAN	.50	20	30	6.30	WELL PUMP (5HP)	18	20	30
19	SPARE						20	20	30
21	SPACE						22	20	30
23							24	20	30
25							26	20	30
27							28	20	30
29	SPACE						30	20	30
REMARKS: .					CONNECTED LOAD: 29.9 KVA 83 AMPS				
					DEMAND LOAD: 32.8 KVA 91 AMPS				



ELECTRICAL NOTES:

- 1 CONTRACTOR SHALL INTERCEPT (E)(2)4" CONDUITS STUBBED ON NORTH SIDE OF ENTRY DRIVE AND EXTEND TO NEW COMMUNICATIONS VAULT #CV2.
- 2 STUB AND CAP 15'-0" PAST EDGE OF ROADWAY FOR FUTURE EXTENSION.



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PHASE 3A
MAINTENANCE
BUILDING
AND WWTF

OVERALL
ELECTRICAL
SITE PLAN
E104

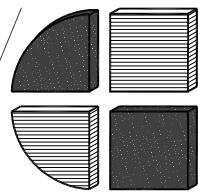
SCALE
AS NOTED

PARKS FILE#

CAD NO.

6-13-25	DATE
GLW	APP.
SJK	INT.
ADDITIONAL #1	REVISIONS
1	NO.

ACTION	BY	DATE
DESIGNED	SJK	1/03/25
DRAWN	JAE	1/03/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		



BID SET

EXISTING OHOP
MUTUAL POWER
POLE

(E)OHOP UTILITY
VAULT MOUNTED
TRANSFORMER

WORK BY
OHOP MUTUAL

EXISTING/NEW MDP SWITCHBOARD - NO WALK-IN, GASKETED, NEMA 3R
NO SCALE

ELECTRICAL NOTES:

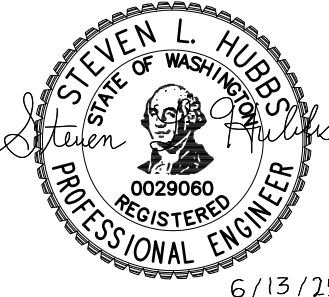
1 CONTRACTOR SHALL EXTEND (2)4"
CONDUITS STUBBED IN PREVIOUS
PHASE TO NEW PANEL 2M2/2M2A.

CONDUIT AND CONDUCTOR SCHEDULE:

- 1 (E)4"C-WIRE BY OHOP MUTUAL
2 (E)(4)4"C-(4)#500 KCM AL EACH
(2)4"C.O.
3 (E)2"C-(4)#3/0 CU & (1)#4 CU GRD
4 (E)(1)4"C - WITH NEW (4)#600 KCM CU & (1)#2 CU GRD
(E)(1)4"C-SPARE
5 (E)2"C.O.
6 (E)1-1/4"C.O.
7 (E)2)4"C.O.
8 (E)(1)4"C-(4)#600 KCM CU & (1)#2 CU GRD
(E)(1)4"C-SPARE
9 NEW (1)4"C-(4)#600 KCM CU & (1)#2 CU GRD
NEW (1)4"C-SPARE
10 (E)4"C-(4)#4/0 CU & (1)#6 CU GRD
11 NEW 3"C-(4)#4/0 CU & (1)#6 CU GRD
12 NEW 2-1/2"C-(4)#4/0 CU & (1)#6 CU GRD
NEW (1)1"C-CONDUCTORS PER GENERATOR MANUFACTURER
13 (E)2"C-WITH NEW (3)#1 CU & (1)#8 CU GRD
14 NEW 2"C-(4)#1 CU & (1)#8 CU GRD

LEGEND:

EXISTING
NEW



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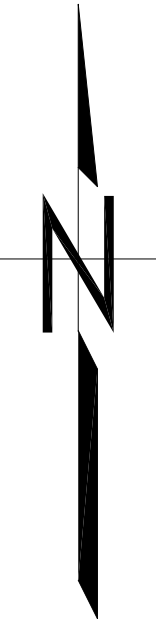
PHASE 3A
MAINTENANCE
BUILDING
AND WWTF

MAINTENANCE
BUILDING POWER
RISER
E401

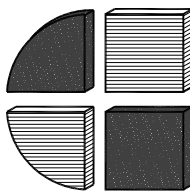
SCALE
AS NOTED

PARKS FILE#

BID SET



SHEET 126 OF 226



CROSS ENGINEERS, INC
923 MLK Jr. Way
Tacoma, WA 98405
Info@crossengineers.com
Phone: (253) 759-0118
Job Number: 20-119

CONDUIT AND CONDUCTOR SCHEDULE - EXISTING/ NEW									
CIRCUIT ID	CONDUIT			CONDUCTORS PER CONDUIT			FROM	TO	REMARKS
	NO.	SIZE	TYPE	NO.	SIZE	TYPE			
1 OM6	3	2-1/2"	PVC	-	-	-	EXISTING OHOP POWER POLE	STUB AND CAP 15'-0" PAST ROAD EDGE	
(E)WC7	1	2"	PVC	-	-	-	(E)CH9	(E)CH10	2
WC15	1	2"	PVC	-	-	-	(E)CH11	NEW CH11A	
WC16	1	2"	PVC/GRS	-	-	-	NEW CH11A	COMMUNICATION BOX AT WELL HOUSE	2
WC17	1	2"	PVC/GRS	-	-	-	(E)STUB LOCATION - SHEET E103	COMMUNICATION BOX AT HOST CAMPSITE	2
WC18	1	4"	PVC	-	-	-	CV2	CV3	6
WC19	1	4"	PVC	-	-	-	CV3	CV4	6
WC20	1	4"	PVC	-	-	-	CV4	CV5	6
WC21	1	4"	PVC	-	-	-	CV5	CV6	6
WC22	1	4"	PVC	-	-	-	CV6	CV7	6
WC23	1	4"	PVC	-	-	-	CV7	CV8	6
WC24	1	4"	PVC	-	-	-	CV8	CV9	6
WC25	1	4"	PVC	-	-	-	CV9	CV10	6
WC26	1	4"	PVC	-	-	-	CV10	CV11	6
WC27	1	4"	PVC	-	-	-	CV11	CV12	6
(E)WCS4	4	2"	PVC	-	-	-	(E)CV1	(E)CH3	
(E)WCS6	4	2"	PVC	-	-	-	(E)CH3	(E)CH2	
(E)WCS7	1	2"	PVC	-	-	-	(E)CH2	(E)CH9	
(E)WCS14	1	2"	PVC	-	-	-	(E)CH10	(E)STUB LOCATION - SHEET E103	
WCS15	1	4"	PVC	-	-	-	CV2	CV3	6
WCS16	1	4"	PVC	-	-	-	CV3	CV4	6
WCS17	1	4"	PVC	-	-	-	CV4	CV5	6
WCS18	1	4"	PVC	-	-	-	CV5	CV6	6
WCS19	1	4"	PVC	-	-	-	CV6	CV7	6
WCS20	1	4"	PVC	-	-	-	CV7	CV8	6
WCS21	1	4"	PVC	-	-	-	CV8	CV9	6
WCS22	1	4"	PVC	-	-	-	CV9	CV10	6
WCS23	1	4"	PVC	-	-	-	CV10	CV11	6
WCS24	1	4"	PVC	-	-	-	CV11	CV12	6
WCS25	2	4"	PVC	-	-	-	CV9	STUB AND CAP 15'-0" PAST ROAD EDGE	6
(E)WPS4	1	2"	PVC	4/1	1/8	CU	(E)MDP	(E)PV1	3
(E)WPS7	2	2"	PVC	4/1	1/8	CU	(E)PV1	(E)PH1	3 6
(E)WPS8	1	2"	PVC	4/1	1/8	CU	(E)PH1	(E)PH6	3
(E)WPS12	1	4"	PVC	4/1	0000/6	CU	(E)MDP	(E)PH8	1
(E)WPS14	1	2"	PVC	4/1	1/8	CU	(E)PH6	(E)PH7	3
(E)WPS15	1	2"	PVC	4/1	1/8	CU	(E)PH7	(E)STUB LOCATION - SHEET E103	3
WP20	1	4"	PVC	4/1	0000/6	CU	(E)PH8	NEW PH8A	
WP21	1	4"	PVC/GRS	3/1	0000/6	CU	NEW PH8A	NEW 200A DISCONNECT AT WELL HOUSE	
WP22	1	2"	PVC/GRS	3/1	1/8	CU	(E)STUB LOCATION - SHEET E103	NEW PANEL CH	

SCHEDULE ABBREVIATION LEGEND:

- WC = WASHINGTON STATE PARKS COMMUNICATIONS CONDUIT
- WP = WASHINGTON STATE PARKS POWER CONDUIT
- WPS = WASHINGTON STATE PARKS SPARE POWER CONDUIT
- PVC = SCHEDULE 40 PVC CONDUIT
- GRS = GALVANIZED RIGID STEEL CONDUIT
- CH = COMMUNICATIONS HANDHOLE
- PH = POWER HANDHOLE
- CV = COMMUNICATIONS VAULT

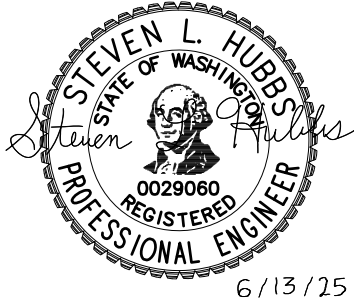
SCHEDULE NOTES:

- 1 EXISTING CONDUIT/CONDUCTORS INSTALLED IN PHASE 2 FOR TEMP WELL HOUSE.
- 2 PROVIDE (1)3-CELL, EDGE DETECTABLE INNERDUCT IN (1)2" CONDUIT WITH PULLSTRINGS IN EACH CELL. MAXCELL #MXED52223 OR EQUAL.
- 3 EXISTING CONDUIT, NEW CONDUCTORS.
- 4 NEW CONDUCTORS INSTALLED IN ONLY ONE (1) OF THE EXISTING (2)2" CONDUITS.
- 5 PROVIDE (1)3-CELL, EDGE DETECTABLE INNERDUCT IN 4" CONDUIT WITH PULLSTRINGS IN EACH CELL. MAXCELL #MXED52223 OR EQUAL.

CAD NO.

6-13-25
DATE
GLW
APP.
SJK
INT.
ADDENDUM #1
REVISIONS
NO.

ACTION	BY	DATE
DESIGNED	SJK	1/03/25
DRAWN	JAE	1/03/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		



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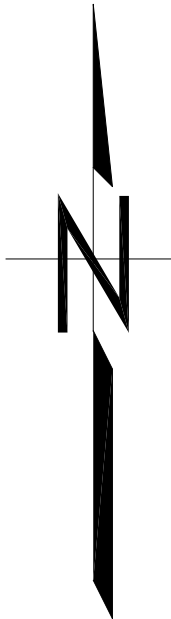
PHASE 3A
MAINTENANCE
BUILDING
AND WWTF

SITE CONDUIT/
CONDUCTOR
SCHEDULE
E403

SCALE
AS NOTED

PARKS FILE#

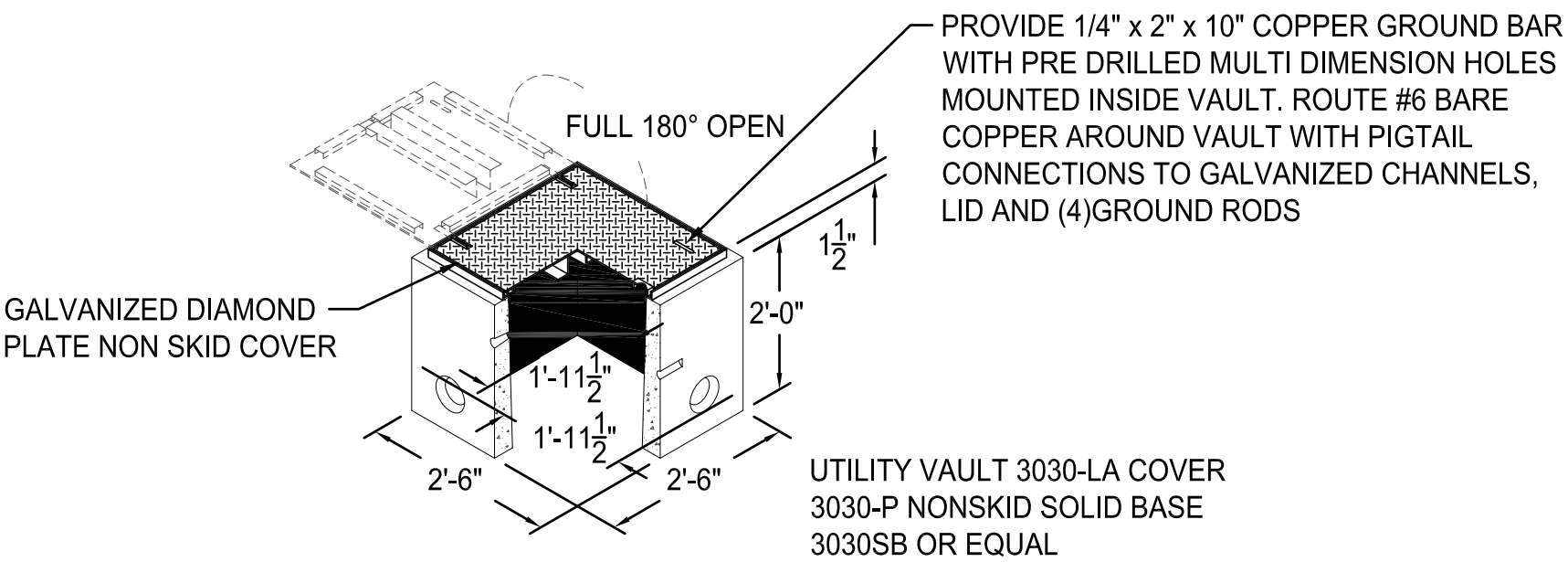
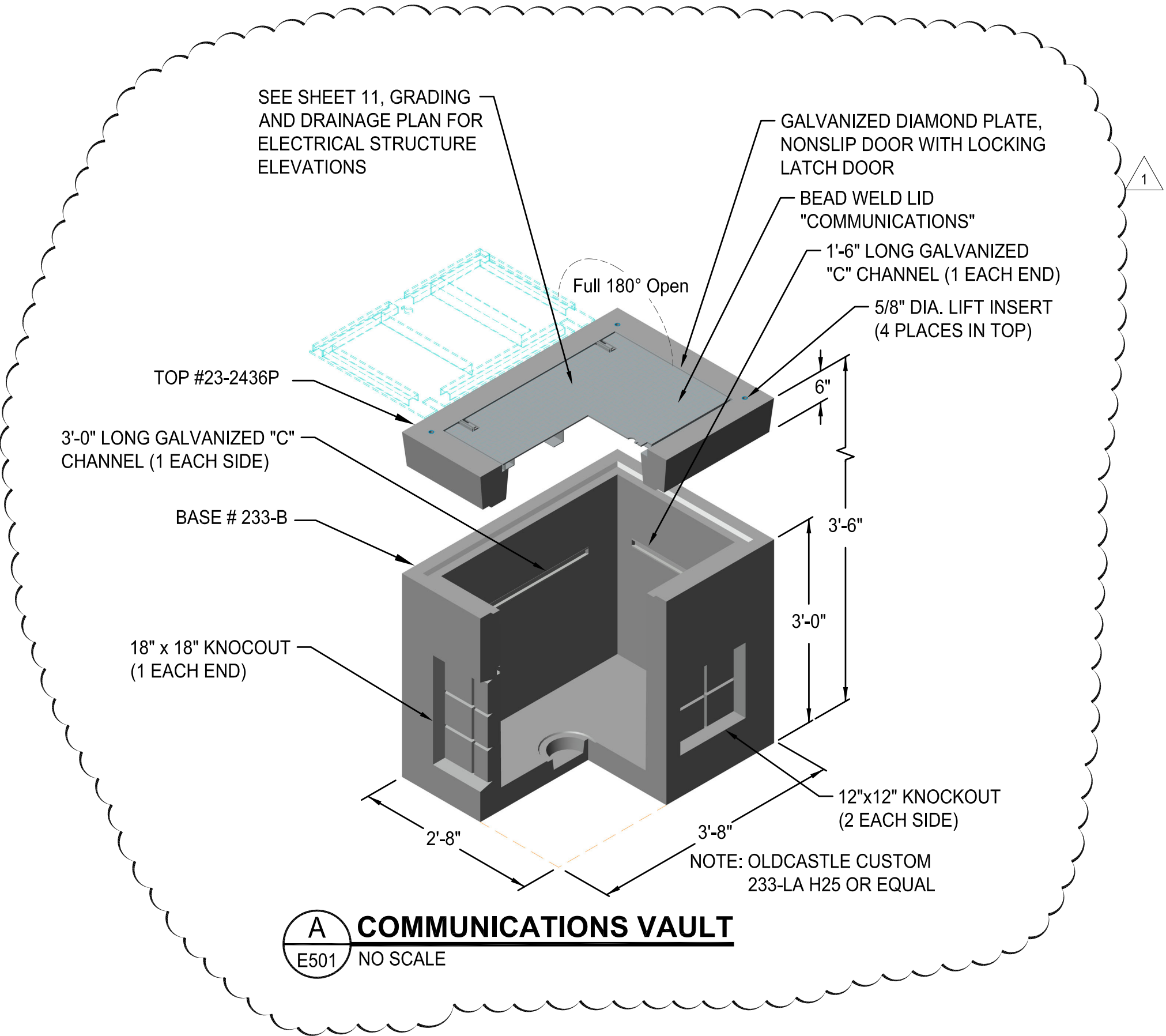
BID SET



VAULT AND HANDHOLE SCHEDULE			
ID	DESCRIPTION	LOADING	NOTES
PH8A	CUSTOM POWER HANDHOLE, SEE DETAIL B, THIS SHEET	MINIMUM H25	①②③④ ⑤⑥
CH11A	CUSTOM COMMUNICATIONS HANDHOLE, SEE DETAIL B, THIS SHEET	MINIMUM H25	①②③④ ⑤⑥
CV2,3,4,5,6,7,8,9,10,11,12	CUSTOM COMMUNICATION VAULTS SEE DETAIL A, THIS SHEET	MINIMUM H25	①②③④ ⑤⑥

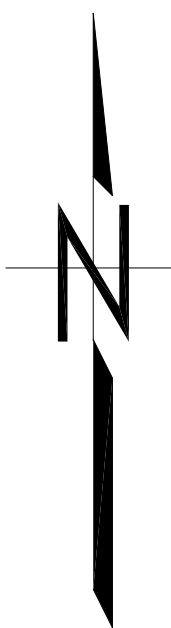
VAULT SCHEDULE NOTES:

- ① ALL CONDUITS ENTERING OR LEAVING VAULTS SHALL USE BLOCK-OUTS WITH BELL ENDS AND GROUTED. PROVIDE REMOVABLE FOAM FILL IN ALL EMPTY CONDUIT OPENINGS. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS. PROVIDE CONDUIT LABELS FOR ALL CONDUITS ENTERING AND LEAVING VAULTS/HANDHOLES. PROVIDE PHENOLIC LABEL ATTACHED TO VAULT/HANDHOLE WALL WITH TWO (2) PLASTIC INSERTS AND STAINLESS STEEL SCREWS ADJACENT TO EACH CONDUIT. PHENOLIC LABEL SHALL HAVE CONDUIT ID ENGRAVED AS INDICATED ON CONDUIT AND WIRE SCHEDULE DRAWINGS.
- ② POWER AND COMMUNICATIONS VAULT/HANDHOLE BEDDING. CONTRACTOR SHALL COMPACT SUBGRADE TO 95% OF MAXIMUM DENSITY, THEN INSTALL 4" OF CLASS A BACKFILL COMPACTED TO 95% OF MAXIMUM DENSITY AND THEN 2" OF .625 MINUS CRUSHED ROCK COMPACTED TO 100% MAXIMUM DENSITY FOR BEDDING. SEE CIVIL AND SLOPE ALL GRADES AWAY FROM LIDS TO PREVENT SURFACE WATER FROM ENTERING VAULT.
- ③ ALL WIRE (POWER AND COMMUNICATIONS) SHALL COMPLETELY LOOP AROUND VAULT/HANDHOLE WALLS PRIOR TO EXITING VAULT.
- ④ CONTRACTOR SHALL PROVIDE WELDED BEAD LABEL ON LID TO READ "ELECTRIC" OR "COMMUNICATIONS". METAL STAMP LID AND FRAME OF EACH VAULT/HANDHOLE TO MATCH DRAWING LABELS.
- ⑤ PROVIDE BOLTED GROUND LUG(S) ON LID AND FRAME. PROVIDE #2 BARE CU GROUND IN EACH VAULT TO TWO (2) 3/4" X 10'-0" GROUND RODS EXTERIOR TO VAULT OR HANDHOLE.
- ⑥ PROVIDE STENCIL PAINTED, VAULT/HANDHOLE LOAD RATING ON INSIDE OF VAULT DIRECTLY BELOW LID. MINIMUM 4" HIGH LETTERS.



B POWER/COMMUNICATIONS HANDHOLE
E501 NOT TO SCALE

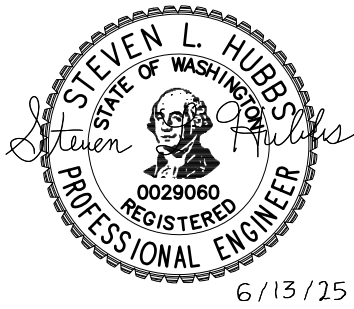
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CAD NO.

	6-13-25	DATE
	GLW	APP.
	SJK	INT.
	ADDENDUM #1	REVISIONS
	1	NO.

ACTION	BY	DATE
DESIGNED	SJK	1/03/25
DRAWN	JAE	1/03/25
CHECKED (FIELD)		
CHECKED (HDQTS.)		



REGISTERED STAMP

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STATE PARK

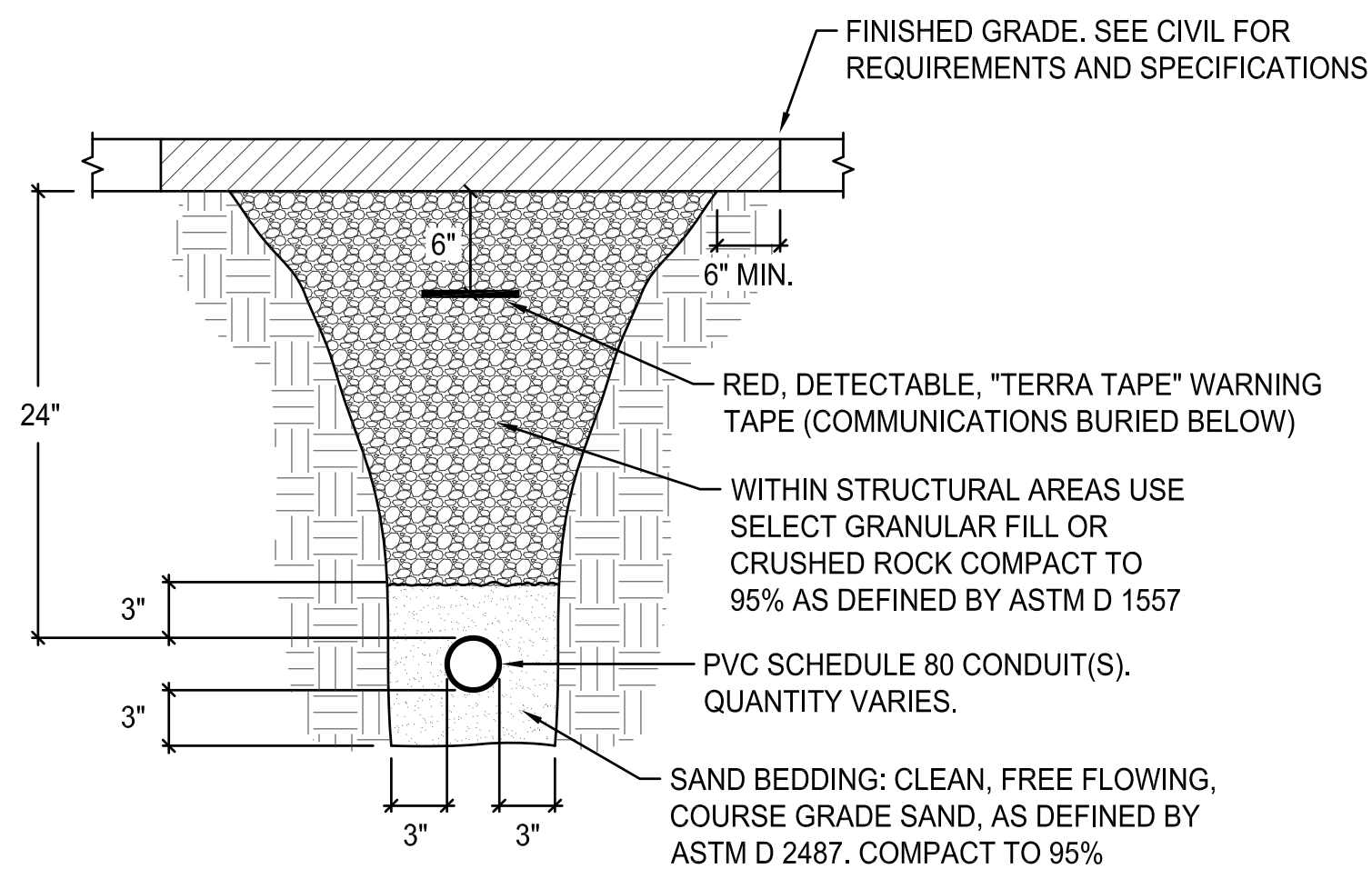
PHASE 3A
MAINTENANCE
BUILDING
AND WWTF

ELECTRICAL
DETAILS
E501

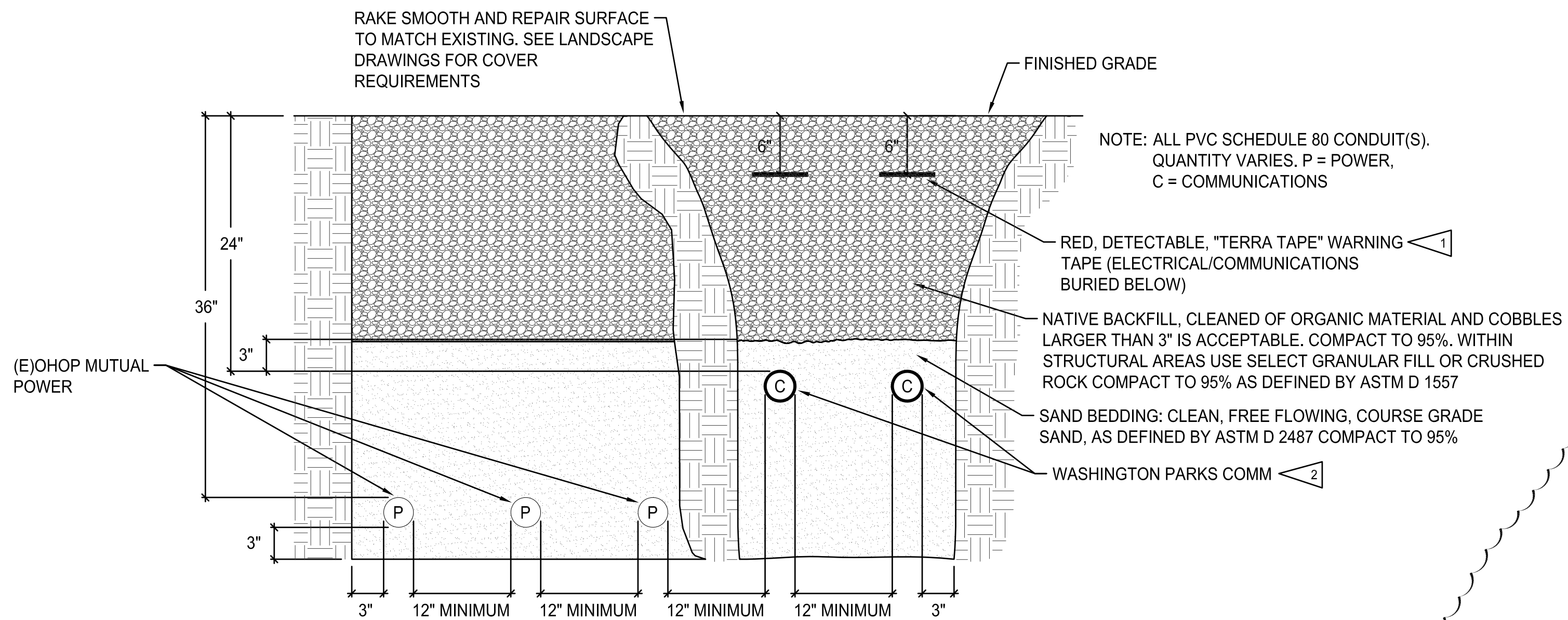
SCALE

AS NOTED

PARKS FILE#



A **TYPICAL CONDUIT TRENCHING DETAIL**
E502 NOT TO SCALE



B **OHOP MUTUAL, WASHINGTON PARKS COMMUNICATIONS COMMON TRENCHING**
E502 NOT TO SCALE

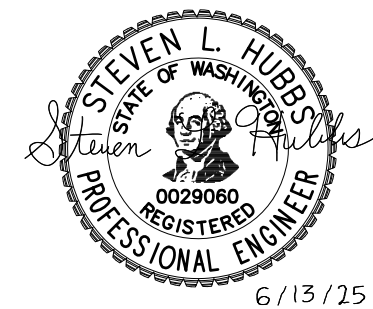
ELECTRICAL NOTES:

- CONTRACTOR SHALL TERMINATE DETECTABLE WARNING TAPE IN VAULT(S). PROVIDE 24" MINIMUM OF TAPE WITHIN VAULT.
- CONTRACTOR SHALL PROVIDE TWO(2) 4" CONDUIT. ONE 4" IS TO BE SPARE WITH PULLTAPE AND ONE 4" CONTRACTOR SHALL INSTALL MAXCELL EDGE DETECTABLE INNDERDUCT WITH PULLSTRINGS IN EACH CELL. MAXCELL #MXED52223 OR EQUAL.

CAD NO.

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	1	NO.

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CHECKED (HDQTS.)		



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PHASE 3A
MAINTENANCE
BUILDING
AND WWTF

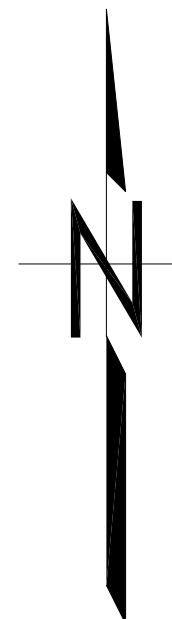
ELECTRICAL
DETAILS
E502

SCALE

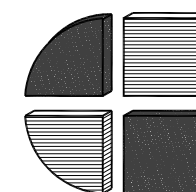
AS NOTED

PARKS FILE#

BID SET



SHEET 129.1 OF 226



CROSS ENGINEERS, INC
923 MLK Jr. Way
Tacoma, WA 98405
Info@crossengineers.com
Phone: (253) 759-0118
Job Number: 20-119

PRIVATE IMPROVEMENTS

DEVELOPMENT ENGINEER
PIERCE COUNTY ORDINANCE NUMBER 2021-45



1001191
PERMIT #
01-05-2023
DATE

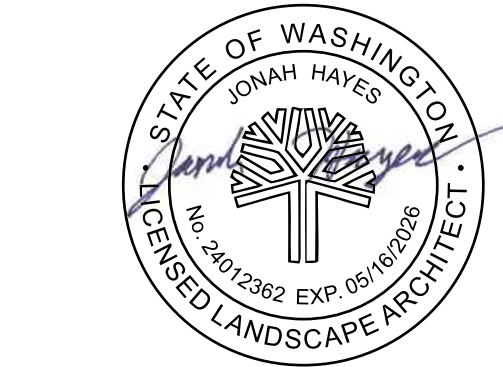
1. CONTACT **Dennis Peterson**, THE AREA INSPECTOR, AT 253-798- 2539, TO COORDINATE THE PRE-CONSTRUCTION MEETING AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF CONSTRUCTION.

2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.

3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.

4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.

CAD NO.		
6/13/2025	DATE	
	APP.	
	INT.	
ADDENDUM #1: -ADJUSTED TO REMOVE  ELECTRICAL NOTES FOR MANUAL SLIDE GATE.		
REVISIONS		
 ADDENDUM #1		
NO.		
ACTION	BY	DATE
DESIGNED		
DRAWN		
CHECKED (FIELD)		
CHECKED (HDQTS.)		



REGISTERED STAMP

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION

NISQUALLY
STATE PARK

PHASE 3A
MAINTENANCE
BUILDING
AND WWTF
GATE LAYOUT -
WWTF

B-C5.0

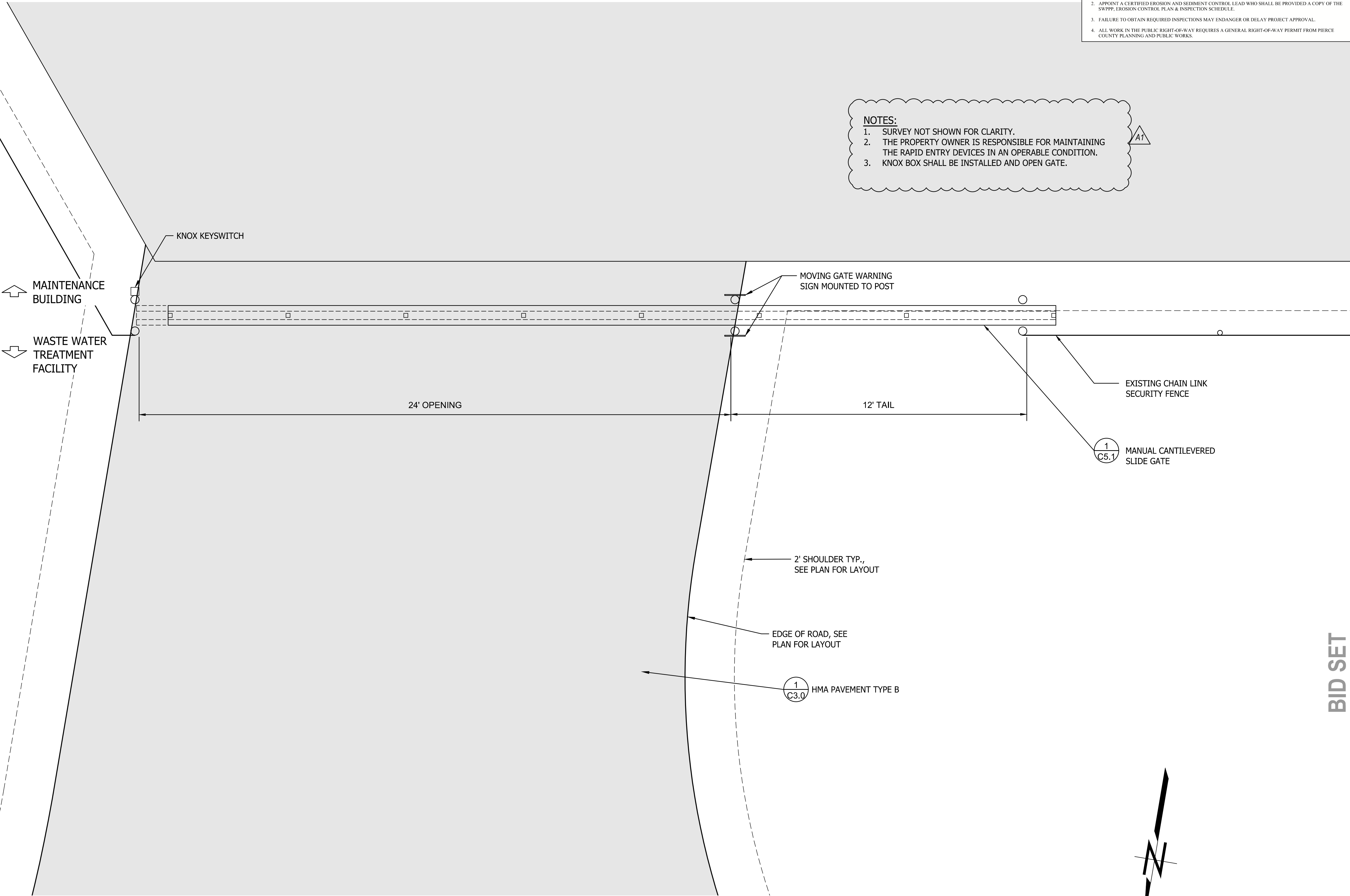
SCALE
AS SHOWN

PARKS FILE#

NOTES:

1. SURVEY NOT SHOWN FOR CLARITY.
2. THE PROPERTY OWNER IS RESPONSIBLE FOR MAINTAINING THE RAPID ENTRY DEVICES IN AN OPERABLE CONDITION.
3. KNOX BOX SHALL BE INSTALLED AND OPEN GATE.

A1



BID SET

1 C5.0 MANUAL CANTILEVERED SLIDE GATE LAYOUT
SCALE: NOT TO SCALE