Hot Springs Village POA

Cedar Creek WWTP Improvements

Project No. 24022

ADDENDUM NO. 2 TO THE CONTRACT DOCUMENTS

HOT SPRINGS VILLAGE POA, HOT SPRINGS VILLAGE, AR

CEDAR CREEK WWTP IMPROVEMENTS

This Addendum No. 2 issued by Crist Engineers, Inc. is hereby made a part of the Contract Documents to the same extent as though it were originally included therein. Please read the following items and acknowledge receipt of this addendum on the proposal form when submitting bids.

1. Conditional Approved Equal

Engineer's acceptance of pre-approved or approved equal submissions will not relieve Contractor from his responsibility for any deviation from the requirements of the Contract Documents unless Contractor has in writing called Engineer's attention to such deviation at the time of submission and Engineer has given written approval to the specific deviation, nor shall any acceptance by Engineer relieve contractor from responsibility for errors or omissions in pre-approved or approved equal submissions.

a. Section 400559 – Slide Gates & Weir Gates

page 4, Section 1.6, add E.:

"E. Waterman.

2. Contract Documents

a. Revise Section 083323, page 5, Section 2.05.E.3:

"Provide motor and controller with ~~explosion-proof NEMA 7~~ NEMA 4 enclosure."

b. Revise Section 083323, page 5, Section 2.05.F, delete:

~~"F. Automatic Closing: Provide automatic closing device and governor, operating when activated by temperature rise and melting of 160 degrees F (71 degrees C) fusible link. Construct governor unit to be inoperative during normal door operations. Design release mechanism for easy resetting.~~
~~1. Provide manufacturer's standard UL labeled smoke detectors and electromechanical door holder release devices where indicated.~~
~~a. Fabricate unit to permit manual lifting of curtain for emergency exit after automatic closing with curtain returning to closed position when released."~~

c. Revise Section 083323, page 5, Section 2.05.G.1:

"Provide interior units, full-guarded, surface-mounted ~~heavy-duty explosion-proof NEMA Type 7~~ NEMA 4 enclosure."

d. Clarification: Sections 331113, 333400, 400520. Where stated "Where identified", the intent is that if pipe or fitting requires a higher level of exterior coating, beyond the standard exterior asphaltic coating, (i.e. fusion bonded epoxy, et al.) then it would be identified on the plans within the piping schedules.

e. Clarification: Division 46. Where stated "….To determine the physical condition of the equipment, detailed pictures and 8K video….. prior to shipment….upon delivery…." Based upon the contract structure between Contractors and Equipment Suppliers, this may be up to the Contractor and at their discretion.

f. Revise Section 312301, page 3, Section 2.1.B:

"Provide 8 inches of Granular fill for structural backfill shall be free of asbestos, organic materials, clay balls, and shall be AASHTO #57, 6, 67, 68, 7 (angular interlocking, screened coarse aggregate) or engineer approved locally provided GM, GP, SW, SP that contains no more than 12% fines material."

g. Revise Section 312301, page 5, Section 3.2.H:

"Blasting is ~~not~~ allowed at the treatment plant site. ~~Do not bring explosives onto the plant site or use in work.~~"

h. Revise Section 400559, page 4, 1.7.B:

"~~Rotork IQ~~ Auma Standard/ Modulating (As Specified)."

3. Plans

a. Revise Plan Sheet 00GI006, row, 24"-INF-DIP-8, add to NOTES column:

"TO BE CONCRETE ENCASED FROM STRUCTURE 40 TO STRUCTURE 50"

b. Revise Plan Sheet 00GI007:

rows, 24"-MLSS-DIP-4, 24"MLSS-DIP-5, add to NOTES column

"TO BE CONCRETE ENCASED UNDER STRUCTURE 1103/ 1104"

c. Revise Plan Sheet 00GI009:

rows, 12"-RAS-DIP-1, 12"-RAS-DIP-2, add to NOTES column

"TO BE CONCRETE ENCASED UNDER STRUCTURE 1103/ 1104"

d. Revise Plan Sheet 00GI012:

rows, 6"-PW-DIP-1, 6"-NPW-DIP-1, add to NOTES column

"TO BE CONCRETE ENCASED UNDER STRUCTURE 360"

e. Delete Plan Sheets 00GI015 and replace with Plan Sheets 00GI015 Addendum No. 2.

f. Revise Plan Sheet 00GI016:

row, 24"-PV-MLSS-1, Revise:

"24"-PV-MLSS-~~1~~ 2"

g. Delete Plan Sheets 05C109 and replace with Plan Sheets 05C109 Addendum No. 2.

All other areas identified within the plan set will be conformed to include removal of the existing asphalt and replace with gravel drive per revised plan sheet 05C109.

h. Delete Plan Sheets 05C111 and replace with Plan Sheets 05C111 Addendum No. 2.

i. Delete Plan Sheets 05C112 and replace with Plan Sheets 05C112 Addendum No. 2.

j. Revise Plan Sheets 05C344, in all locations identified, "12"-FM-PVC-2", add (FUTURE). Prior to issuance of conformed set this future line will be removed from the plan set.

k. Delete Plan Sheets 05C301 and replace with Plan Sheets 05C301 Addendum No. 2.

l. Revise Plan Sheet 05C302, add note with leader to STA 0+00:

"CONNECT PROPOSED 6"-FM-PVC-2 TO EXISTING 4" DIP WITH MJ SOLID SLEEVE, 6"X4" MJ REDUCER OUTSIDE OF VAULT. ABANDONED-IN PLACE LINE SEGMENT TO EXISTING HEADWORKS STRUCTURE"

m. Revise Plan Sheet 05C304, add note with leader to STA 0+00:

"CONNECT PROPOSED 6"-FM-PVC-3 TO EXISTING 6" PVC WITH MJ SOLID SLEEVE, ABANDONED-IN PLACE LINE SEGMENT TO EXISTING HEADWORKS STRUCTURE"

n. Revise Plan Sheet 05C306, add note with leader to STA 0+00:

"CONNECT PROPOSED 6"-FM-PVC-4 TO EXISTING 6" PVC WITH MJ SOLID SLEEVE, ABANDONED-IN PLACE LINE SEGMENT TO EXISTING HEADWORKS STRUCTURE"

o. Revise Plan Sheet 05C308, add note with leader to STA 0+00:

"CONNECT PROPOSED 12"-FM-PVC-1 TO EXISTING 12" DIP WITH MJ SOLID SLEEVE, ABANDONED-IN PLACE LINE SEGMENT TO EXISTING HEADWORKS STRUCTURE"

p. Delete Plan Sheets 05C310 and replace with Plan Sheets 05C310 Addendum No. 2.
q. Delete Plan Sheets 05C314 and replace with Plan Sheets 05C314 Addendum No. 2.
r. Delete Plan Sheets 05C316 and replace with Plan Sheets 05C316 Addendum No. 2.
s. Delete Plan Sheets 05C317 and replace with Plan Sheets 05C317 Addendum No. 2.
t. Delete Plan Sheets 05C318 and replace with Plan Sheets 05C318 Addendum No. 2.
u. Delete Plan Sheets 05C319 and replace with Plan Sheets 05C319 Addendum No. 2.
v. Delete Plan Sheets 05C320 and replace with Plan Sheets 05C320 Addendum No. 2.
w. Delete Plan Sheets 05C321 and replace with Plan Sheets 05C321 Addendum No. 2.

x. Revise Plan Sheet 05C330:

Revise call out to valve at STA 0+08:

"24-PV-~~MLSS-1~~ INF-4"

Revise call out to valve at STA 1+03:

"24-PV-~~MLSS-2~~ INF-6"

y. Delete Plan Sheets 195-S-102 and replace with Plan Sheets 195-S-102 Addendum No. 2.

z. Revise Plan Sheets 360-S-502, Door Schedule, label incorrect, D1 and D14, Revise frame column "~~FRP~~ STL".

aa. Delete Plan Sheets 80M301 and replace with Plan Sheets 80M301 Addendum No. 2.

bb. Clarification: 00-SZ-07, Detail I, is applicable to penetrations though existing structures. Plan Sheet 90M104 or elsewhere, piping penetrations through new structures 902 and 903 do not require concrete collars.

cc. Delete Plan Sheets 80M301 and replace with Plan Sheets 80M301 Addendum No. 2:
dd. Delete Plan Sheets 90M301 and replace with Plan Sheets 90M301 Addendum No. 2:
ee. Delete Plan Sheets 110M301 and replace with Plan Sheets 110M301 Addendum No. 2:
ff. Delete Plan Sheets 110M306 and replace with Plan Sheets 110M306 Addendum No. 2:
gg. Delete Plan Sheets 120M301 and replace with Plan Sheets 120M301 Addendum No. 2:
hh. Delete Plan Sheets 360M304 and replace with Plan Sheets 360M304 Addendum No. 2:

ii. Revise Plan Sheets 180M100, 180M301 in all locations identified, "4"-DEC-~~PVC~~ DIP-2".

jj. Delete Plan Sheets 00E500 and replace with Plan Sheets 00E500 Addendum No. 2.

4. Contractor's Questions

a. Please see the attached Contractor Questions and Responses, Pages 1 through 3.

End of Addendum No. 2

All other provisions of the Plans and Contract Documents shall remain in full force and effect.

Issued by CRIST ENGINEERS, INC.

Brian N. Wintle, PE, PhD, BCEE, CHMM



The Bidder acknowledges receipt of Addendum No. 2 through downloading/ receiving via Newforma. It is the bidder's responsibility to incorporate all addendum items into the contract documents (electronic and/ or paper) as though they were originally included therein.

Bidder shall also acknowledge Addendum No. 2 on Section 004100 Bid Form (C-410).

Hot Springs Village	24022 HOT SPRINGS VILLAGE POA CEDAR CREEK WWTP IMPROVEMENTS CONTRACTOR QUESTIONS AND RESPONSES	Crist ENGINEERS	

Ref No.	Question	Formal Response	Addendum No
1	Referencing plan sheets 05C111 and 05C112 Yard Piping North and South. These sheets do not show the structures the piping is connecting to. Please clarify.	See Addendum No. 1.	Addendum 01
2	Regarding demo pictures 16, 39, 60 and notes that direct the contractor to clean, remove grit organics, rags etc. Can the Engineer provide a elevation that the existing liquids can be removed to by the Owner? Or, what the contractor can expect as far as quantities?	Contractor to convey biosolids from existing structure 90 to existing structure 70 to 80% water depth. Remaining 20% estimated to be inorganic solids to be removed by contractor. The owner will remove and dewater the biosolids contained within the existing structure 70 and 180 to 90% water depth. Remaining 10% estimated to be inorganic solids to be removed by contractor.	-
3	Referencing plans sheets 40 S 301 and 40 M 301 for the Dry Weather Storage Basin. The M drawings indicate stone backfill around the walls. The S drawings do not. Is stone backfill required?	Yes, reference note on 40-M-301. Also see Specification 312301. See Addendum No. 2.	Addendum 02
4	Please referenced plan sheet 05C101, Note 2 regarding temporary fencing “where appropriate”. Will temporary fencing be at the Contractor’s discretion or will it be required?	Yes, at contractor's discretion to appropriately secure the site.	-
5	Flexible Expansion Joints are listed in spec 331113, page 21 and 333400, page 15. The specs do not however, indicate where they are to be used or on what lines. Are they to be used only where called out on the drawings or is there a general requirement for them? If there’s a general requirement, additional location information (proximity to structures) and pipe designations would be needed.	Yes, they are to only be used where called out on the drawings.	Addendum 02
6	Please see drawing sheet 05C301. What is the termination for the 6” FM PVC 1 at station 0+00? I cannot determine whether it ties into the adjacent box or maybe connects to an existing pipe.	See Addendum No. 2.	Addendum 02
7	Same drawing as above, please confirm the notation on station 0+23 should be 6” MJ 90 Bend rather than 4”.	See Addendum No. 2.	Addendum 02
8	Please see drawing sheet 05C302. What happens at station 0+00 on the 6”-FM-PVC-2 line? Does it tie into existing piping or into structure 230? I cannot locate any drawings of building 230, the existing Wash Water Lift Station	See Addendum No. 2.	Addendum 02
9	Line 6”-FM-PVC-3 on drawing sheet 05C111 has a section that appears to be labled “24”-INF-DIP-2”. Is this a mistake or is there another line somewhere that should be labeled “24-INF-DIP-2”? Also, how does this line terminate? Does it tie-in to an existing line?	See Addendum No. 2.	Addendum 02
10	Similarly for 6”-FM-PVC-4 , 12-FM-PVC-2, 18-FM-PVC-1 and perhaps other areas where proposed piping is shown ending in the field, are these tieing into existing lines? If they are tieing into existing lines, to what extent should the existing, unused piping be removed and how should it be abandoned if all or part is left in place.	See Addendum No. 2.	Addendum 02
11	Can a drawing be produced that shows the proposed piping as well as the existing piping to help show potential conflicts or the extent of existing buried piping that must be removed?	Reference Plan Sheet 00G004.	Addendum 02
12	Do pipes under structures require encasement? If so, how much all around and should it be reinforced?	Ductile iron pipes that are to be installed under structures as identified in the schedules shall be encased per Detail H on Sheet 00SZ02.	Addendum 02
13	Where are thrust blocks required?	No thrust blocks required. All restraints are per Plan Sheet 05C501, Detail A and in accordance with Sections 331113, 333400 and 400520.	Addendum 02
14	Spec 333400-12, paragraph J states that ‘couples’ shall be coated with fusion bonded epoxy. Should that be interpreted that where new pipe connects to existing, a coupling, for example EBAA 3800, should be used verses an asphalt coated DI MJ Solid Sleeve?	Couples or solid sleeves are allowed in accordance with Spec. 333400-13, 2.8.1. and shall coated according to Spec. 333400-12, 2.6.J.	Addendum 02
15	Drawing sheet 05C314 calls out valve 1”-AVRV-TWAS-2. I cannot locate it on the valve schedule. Should it be added to the valve schedule or is it mis-named on the drawings? It appears that perhaps it should be identified as 1”-AVRV-TWAS-1, which is on the schedule.	See Addendum No. 2.	Addendum 02

16	See drawing sheet 05C314. Should the 60” Vaults for 1”-AVRV-TWAS-2 and 4”-RD-TWAS-1 have a 36” diameter opening in their bases or should they be solid? There does not appear to be any 2” drainage PVC DWV under these MH’s. Should the 60” vault for the Rupture Disk have a flat top and vent similar to the AVRV vaults?	See Addendum No. 2. Rupture disc detail shown on Plan Sheet 05C505, Detail C.	Addendum 02
17	I cannot locate a spec or detail for process floor drains. Please provide.	Floor Drains provided may be in accordance with Section 221100.	Addendum 02
18	Please clarify the following by Addendum. The Rolling Stairs and Platforms shown on the Drawings (20 Series and 195 Series), do not appear to be sized per the models/sizing listed on page 2 of Section 055136. Based on the manufacturer’s data sheets attached, please clarify the model and size required for each of the five locations listed	Model numbers identified in Section 055136 shall control.	-
19	SC-7.02.C – Please provide the engineers engineer’s overtime pay rate and any additional rates that may apply.	The intent of this section is that there be a mechanism for if excessive work outside of normal business hours if pursued by the Contractor than the Contractor will provide for compensation to the Owner's representatives for work outside of normal business hours. However, in practice, if the Contractor does not exceed ~48 hours per week requiring Owner's representatives staff to be onsite or regularly work on the weekends or holidays then exercising of this section is unlikely to be pursued.	-
20	Is this a BABA project? -If not Section 33113 2.2.4 Calls for “All steel pipe shall be manufactured in the USA.” -If not Section 400531 2.2.A.4 Calls for “all pipe to be manufactured in the USA, using domestic materials.” Is this correct?	The Project is not required to be Build America, Buy America Act Compliance.	-
21	Section 400557 Electric Motor Actuators 1.4.B states, “electric motor actuators for slide gates shall be manufactured by Limitorque, Auma, or pre-approved equal. Section 400559 Slide Gates & Weirs 1.7 Acceptable mult-turn electric gate actuators, states Limitorque and Rotork. Which is correct?	See Addendum No. 2.	Addendum 02
22	MCC-M4 Electrical Schedule is incomplete and is missing 110CD104, 110CD103, 110PMP103 & 110PMP104. Can we get an updated schedule to capture the breakers and starters needed for this equipment?	Starters are included in 110-CP-3, 110-CP-4, 110SP-CP-3, and 110SP-CP-4 (Refer to civil schedule notes). Refer to keyed note 5 on 00E240 for breaker sizes required in MCC-M4. The schedule for MCC-M4, see Addendum 02.	Addendum 02
23	Where will LP-Chem get its source of power from?	Refer to Keyed Note 10 on 00E100.	-
24	The door schedule on sheet 360-S-502 lists doors D1 and D14 to have a FRP frame and steel door. These are the only openings listed to have a fiberglass frame. Is this an typographical error?	See Addendum No. 2.	Addendum 02
25	Spec section 08 33 23 for overhead doors calls for explosion proof motors and controllers in paragraph 2.05E. Please confirm this is required as it will greatly affect pricing. Also, please confirm the requirements of paragragh 2.05F.	See Addendum No. 2.	Addendum 02
26	See drawing sheets 05C111 and 05C317. On 05C111, there’s a line marked 4”-SCUM-PVC-3 running N-S between the Future Clarifiers with what may be a line off of a TEE about midway, running E-W between Clarifiers 1103 & 1104. This branch off the TEE appears to be labeled 4”-SCUM-PVC-4. Please confirm that these lines are FUTURE. Also, if these lines are future, should a TEE and Plug be installed on 4”-SCUM-PVC-4 (that runs between 1103 & 1104) to receive them in the future? Sheet 05C317 shows a line crossing 4”-SCUM-PVC-4, which is the branch off of the TEE. There does not appear to be any profile drawings of these lines in question.	See Addendum No. 2.	Addendum 02
27	Drawing 05C111 shows the 12”-RAS-DIP-1 line running under structure 290, identified as Chemical Storage 2. Although structure 290 is shown on demo drawing 00D101, and boxed around, we cannot find anything stating that this structure gets demolished. Does this structure get demolished? If not, how should 12”-RAS-DIP-1 be routed around it?	See Addendum No. 2.	Addendum 02
28	Regarding the retaining wall shown at the Dewatering Building Sheet 195-S-101 and other locations. Does this wall have/require handrail at the top? We did not see any.	Handrailing at this location is not required. However, see Addendum No. 2.	Addendum 02

29	On Sheet E310, three conduit runs are shown from Plant-PLC-1 to the MCCs located within that building; however, there is no description provided for these conduits. Can a conduit schedule or additional detail be provided for clarification?	Refer to the Control I/O drawings for wiring required between the MCCs and Plant-PLC-1. Size conduit as directed by General Note A. If conduit is shown but no wiring is required on the Control I/O, make the conduit a 1” spare conduit.	-
30	For the duct bank outside of Building 350, should we assume the conduits will stub up on the exterior wall and transition to overhead conduit routing to the respective equipment, or should we plan to saw cut and remove portions of the building floor in order to install the conduits underground?	See Note 4 on 00E310.	-
31	Is cable tray permitted within electrical rooms?	Cable tray is not permitted.	-
32	Please clarify whether detail I on sheet 00-SZ-07 applies to all pipe penetrations, whether the structures are existing or new. On sheet 90M104 (for example), although not called out as concrete pipe collars, there are what appears to be faint rectangles drawn over the footing where the new 24”-MLSS-PVC-7 & 8 enter the two new Oxidation Ditches. We are not sure what these rectangles are depicting.	See Addendum No. 2.	Addendum 02
33	Please see drawing sheets 05C330 and 50M101. The same 24” valve appears to be marked 24”-PV-INF-4 on 50M101 but 24”-PV-MLSS-1 on sheet 05C330. Both mark numbers are listed on the valve schedule.	See Addendum No. 2.	Addendum 02
34	Drawing 50M101 shows a 24” valve marked 24”-PV-MLSS-2 but it does not appear to be on the valve schedule.	See Addendum No. 2.	Addendum 02
35	Drawing 05C330 and 70M100 has two 24” MJ valves marked 24”-PV-MLSS-3 & 4. These valves cannot be located on the valve schedule.	See Addendum No. 2.	Addendum 02

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VALVES

ID/ TAG	LOC. ID	SIZE (IN)	HP	DESCRIPTION	ELECTRICAL (V/ HZ/ P)	CONTROLS	SPECIFICATION	NOTES
1-1/2"-GLV-NPW-2	20	1.5	-	GLOBE VALVE	-	MANUAL, HANDWHEEL OPERATOR	400520	-
4"-GV-NPW-1	20	4	-	NON-POTABLE WATER SHUT OFF VALVE	-	MANUAL, WRENCH OPERATOR	331419	-
4"-GV-NPW-2	20	4	-	NON-POTABLE WATER SHUT OFF VALVE	-	MANUAL, WRENCH OPERATOR	331419	-
4"-PNV-GRT-1	20	4	-	GRIT SHUT OFF VALVE - AIR ACTUATED	-	20-PLC-1 VIA 1/4"-SV-AS-1 SOLENOID VALVE	462323/ 331419	PROVIDED BY EQUIPMENT SUPPLIER.
4"-PNV-GRT-2	20	4	-	GRIT SHUT OFF VALVE - AIR ACTUATED	-	20-PLC-1 VIA 1/4"-SV-AS-2 SOLENOID VALVE	462323/ 331419	PROVIDED BY EQUIPMENT SUPPLIER.
1/2"-BA-AS-1	20	0.5	-	AIR DRYER SHUT OFF VALVE		MANUAL, LEVER OPERATOR	400520	-
1/2"-3WBA-AS-1	20	0.5	-	3-WAY BALL VALVE		MANUAL, LEVER OPERATOR	400520	PRESSURE RELIEF FOR SERVICING OF COMPRESSED AIR DRYER
6"-GV-NPW-1	30	6	-	NON-POTABLE WATER SHUT OFF VALVE	-	MANUAL, WRENCH OPERATOR	331419	-
12"-PV-RAS-1	60	12	-	SHUT OFF VALVE FOR 60	-	MANUAL, LEVER OPERATOR	331419	-
12"-PV-RAS-2	60	12	-	ISOLATION VALVE FOR RAS BYPASS	-	MANUAL, LEVER OPERATOR	331419	-
4"-GV-NPW-1	50	4	-	NON-POTABLE WATER SHUT OFF VALVE	-	MANUAL, WRENCH OPERATOR	331419	-
18"-PV-INF-1	50	18	-	ISOLATION VALVE FOR 50MFM101	-	MANUAL, HANDWHEEL OPERATOR	331419	-
18"-PV-INF-2	50	18	-	INFLUENT RATE OF FLOW CONTROL VALVE	-	ELECTRIC MOTOR ACTUATOR	331419	-
50EMO-1	50	-	2	MODULATING ACTUATOR FOR 18"-PV-INF-2	460/60/3	ANALOG (4-20 MA) VALVE ALTERNATIVE POSITION FROM 30/40/50/60-RIO-1. 8 - 250VAC AT 5 A DISCRETE FROM ACTUATOR TO 30/40/50/60-RIO-1. PLANT-PLC-2 CONTROL MODULATING VALVE POSITION BASED ON ACHIEVING DESIRED FLOW RATE AS DETERMINED BY 50MFM101/ SC-2. PROVIDE ACTUATOR STATUS/ ALARM/ CONTROL PARAMETERS TO 30/40/50/60-RIO-1/ PLANT-PLC-2/ PLANT NETWORK, SEE SPECIFICATION.	400557/ 406196	-
24"-PV-INF-2	50	24	-	SHUT OFF VALVE FOR 40	-	MANUAL, HANDWHEEL OPERATOR	331419	-
24"-PV-INF-3	50	24	-	ISOLATION VALVE FOR INFLUENT BYPASS	-	MANUAL, HANDWHEEL OPERATOR	331419	-
24"-PV-INF-4	50	24	-	ISOLATION VALVE FOR INFLUENT BYPASS	-	MANUAL, WRENCH OPERATOR	331419	-
24"-PV-INF-5	50	24	-	ISOLATION VALVE FOR INFLUENT BYPASS	-	MANUAL, HANDWHEEL OPERATOR	331419	-
24"-PV-MLSS-3	70	24	-	ISOLATION VALVE FOR BYPASS	-	MANUAL, WRENCH OPERATOR	331419	-
24"-PV-MLSS-4	70	24	-	ISOLATION VALVE FOR BYPASS	-	MANUAL, WRENCH OPERATOR	331419	-

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/15/26	MAB	BNW	ADDED TWO VALVES TO THE SCHEDULE

CRIST ENGINEERS, INC. CONSULTING ENGINEERS No. 91 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.18592 BRIAN N. WINTLE 5/11/2026

0 1" — 1" = 1"

THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: MAB
DRAFTED: MAB
CHECKED: BNW
DATE: MAY 2026

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
LITTLE ROCK, ARKANSAS 72211
TELEPHONE: (501) 664-1552
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WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

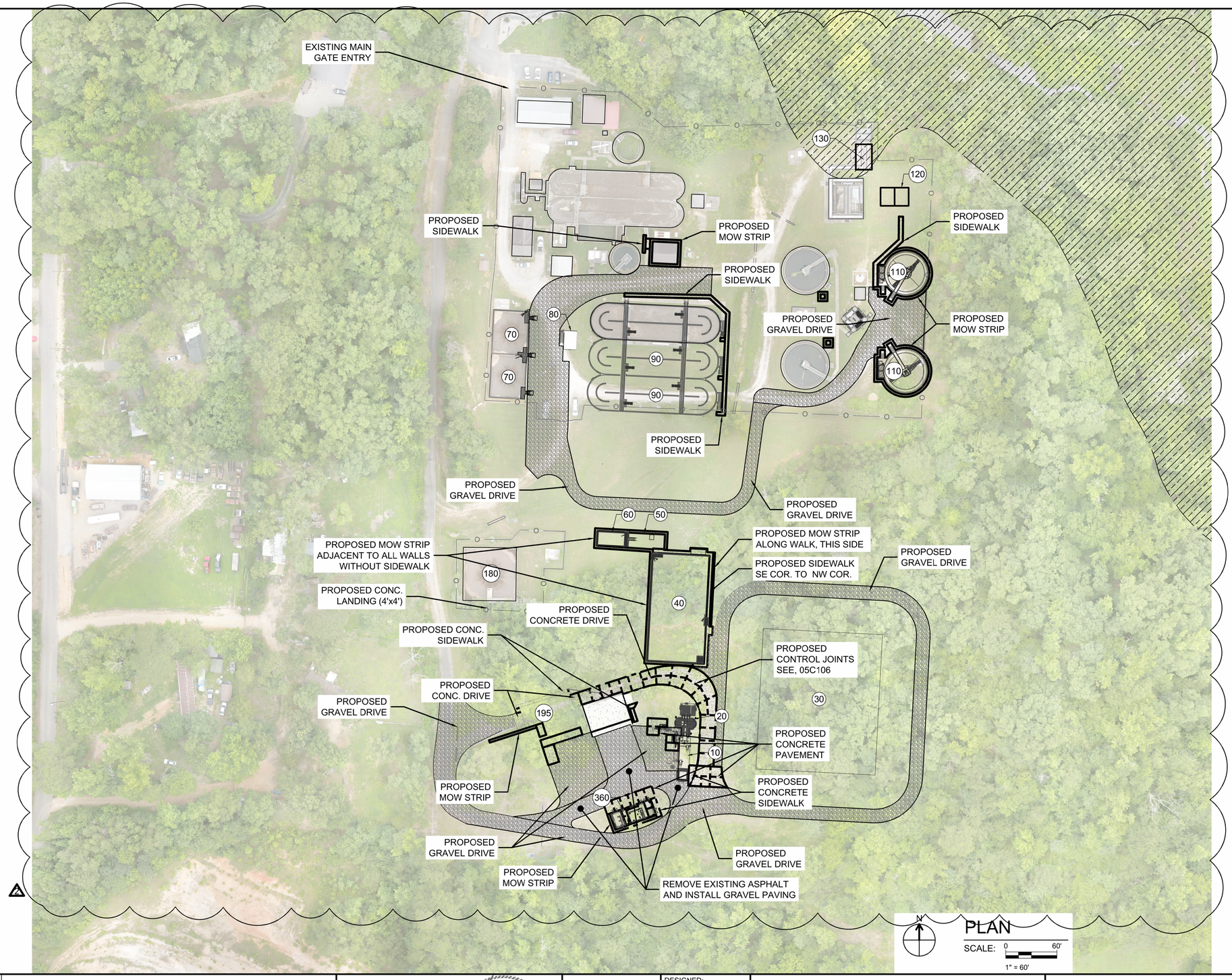
VALVES SCHEDULE 2

JOB NO. 24022

SHEET NO. 00GI015

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REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/13/26	MAB	BNW	CLEAN UP SHEET TO ONLY INCLUDE SURFACE REQUIREMENTS

CERTIFICATE OF AUTHORIZATION — CRIST ENGINEERS, INC. CONSULTING ENGINEERS No. 91 — ARKANSAS ENGINEER

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No.18592 — BRIAN N. WINTLE — 5/13/2026

0 1" — 1" = 1"

THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED:	MAB
DRAFTED:	MAB
CHECKED:	BNW
DATE:	MAY 2026

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HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

PROPOSED SURFACE PLAN

JOB NO. 24022

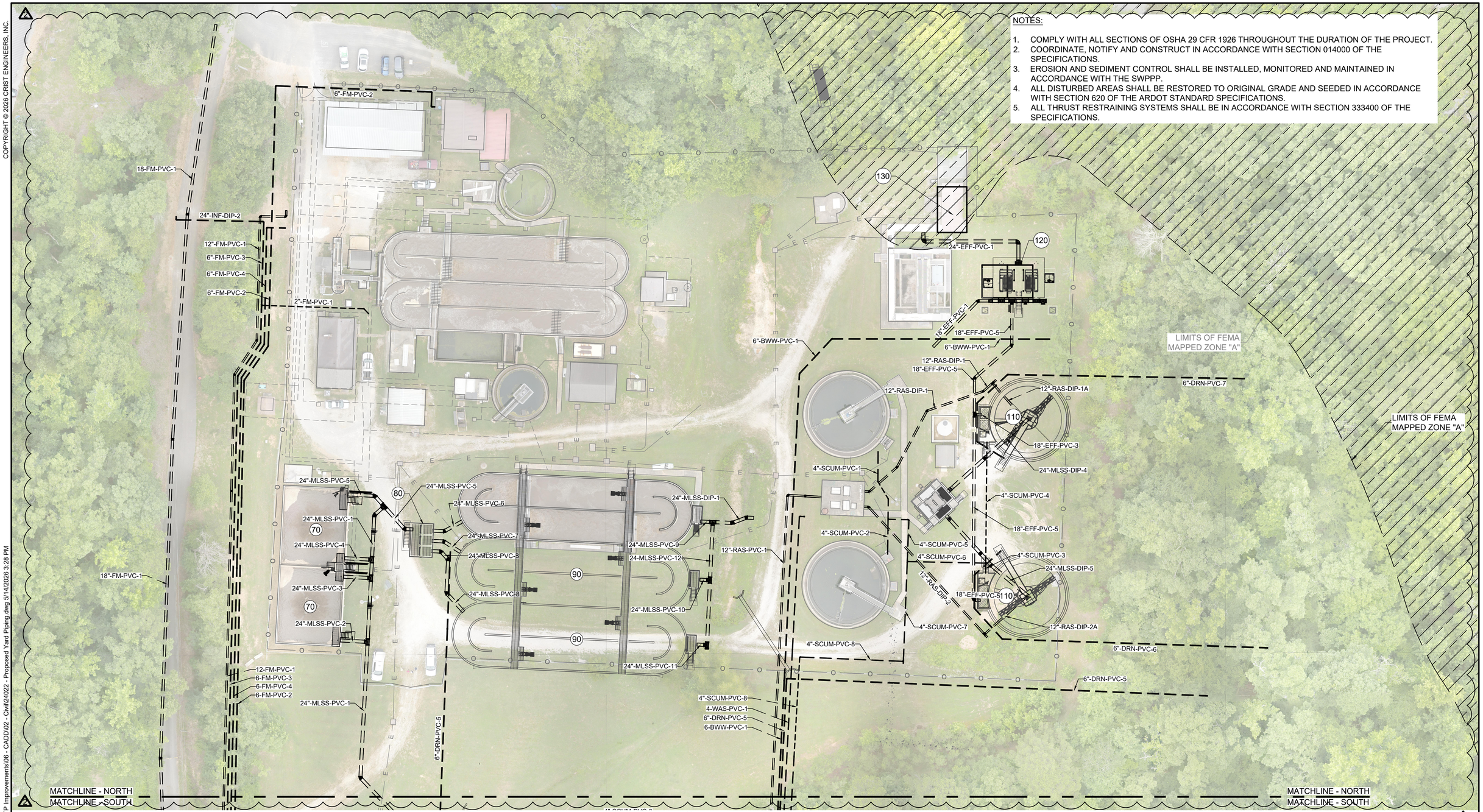
SHEET NO. 05C109

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NOTES:

1. COMPLY WITH ALL SECTIONS OF OSHA 29 CFR 1926 THROUGHOUT THE DURATION OF THE PROJECT.
2. COORDINATE, NOTIFY AND CONSTRUCT IN ACCORDANCE WITH SECTION 014000 OF THE SPECIFICATIONS.
3. EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED, MONITORED AND MAINTAINED IN ACCORDANCE WITH THE SWPPP.
4. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL GRADE AND SEEDED IN ACCORDANCE WITH SECTION 620 OF THE ARDOT STANDARD SPECIFICATIONS.
5. ALL THRUST RESTRAINING SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION 333400 OF THE SPECIFICATIONS.



N

PLAN

SCALE: 0 30' — 1" = 30'

ALL LIQUID CONVEYANCE PROCESS PIPING SHALL BE LAID IN A MANNER THAT DOES NOT TRAP AIR USING SLIGHT POSITIVE AND NEGATIVE PIPE SLOPES FROM AND TO STRUCTURE CONNECTIONS. WHERE PROCESS PIPING PROFILES SHOW 0.00% SLOPE, CARE MUST BE GIVEN AVOIDS CREATING A HIGH POINT WHICH WOULD INCREASE THE CHANCE OF TRAPPING AIR. SLIGHT FIELD ADJUSTMENTS NECESSARY TO AVOID THIS RISK ARE PERMITTED AND ENCOURAGED WHERE APPROPRIATE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/15/26	MAB	BNW	REMOVED FUTURE PIPING FOR CLARITY (VERIFIED PIPING LABELS)
1	5/7/26	MAB	BNW	CONFORMED PER ADDENDUM NO. 1

CERTIFICATE OF AUTHORIZATION — CRIST ENGINEERS, INC. CONSULTING ENGINEERS No. 91 — ARKANSAS ENGINEER

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No.18592 — BRIAN N. WINTLE — 5/7/2026

0 1" — 1" = 1"

THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: MAB
DRAFTED: MAB
CHECKED: BNW
DATE: MAY 2026

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
LITTLE ROCK, ARKANSAS 72211
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

PROPOSED PROCESS YARD PIPING PLAN - NORTH

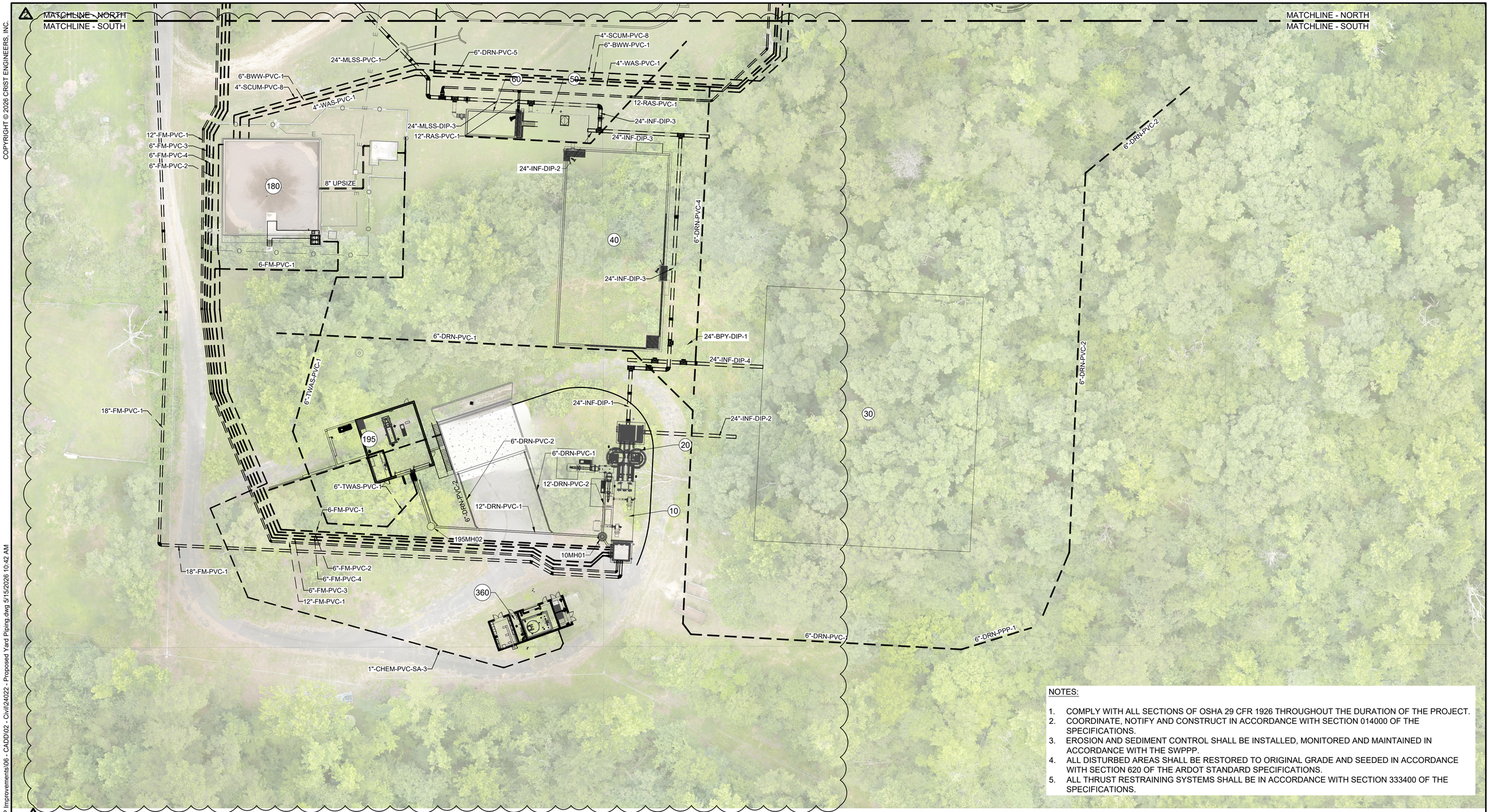
JOB NO. 24022

SHEET NO. 05C111

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NOTES:

1. COMPLY WITH ALL SECTIONS OF OSHA 29 CFR 1926 THROUGHOUT THE DURATION OF THE PROJECT.
2. COORDINATE, NOTIFY AND CONSTRUCT IN ACCORDANCE WITH SECTION 014000 OF THE SPECIFICATIONS.
3. EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED, MONITORED AND MAINTAINED IN ACCORDANCE WITH THE SWPPP.
4. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL GRADE AND SEEDED IN ACCORDANCE WITH SECTION 620 OF THE ARDOT STANDARD SPECIFICATIONS.
5. ALL THRUST RESTRAINING SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION 333400 OF THE SPECIFICATIONS.

N

PLAN

SCALE: 0 30'

1" = 30'

ALL LIQUID CONVEYANCE PROCESS PIPING SHALL BE LAID IN A MANNER THAT DOES NOT TRAP AIR USING SLIGHT POSITIVE AND NEGATIVE PIPE SLOPES FROM AND TO STRUCTURE CONNECTIONS. WHERE PROCESS PIPING PROFILES SHOW 0.00% SLOPE, CARE MUST BE GIVEN AVOIDS CREATING A HIGH POINT WHICH WOULD INCREASE THE CHANCE OF TRAPPING AIR. SLIGHT FIELD ADJUSTMENTS NECESSARY TO AVOID THIS RISK ARE PERMITTED AND ENCOURAGED WHERE APPROPRIATE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/15/26	MAB	BNW	REMOVED FUTURE PIPING FOR CLARITY (VERIFIED PIPING LABELS)
1	5/7/26	MAB	BNW	CONFORMED PER ADDENDUM NO. 1

CRIST ENGINEERS, INC. CONSULTING ENGINEERS No. 91 — CERTIFICATE OF AUTHORIZATION — ARKANSAS ENGINEER

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 18592 — BRIAN N. WINTLE — 5/15/2026

0 1"

1" = 1"

THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: MAB
DRAFTED: MAB
CHECKED: BNW
DATE: MAY 2026

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
LITTLE ROCK, ARKANSAS 72211
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

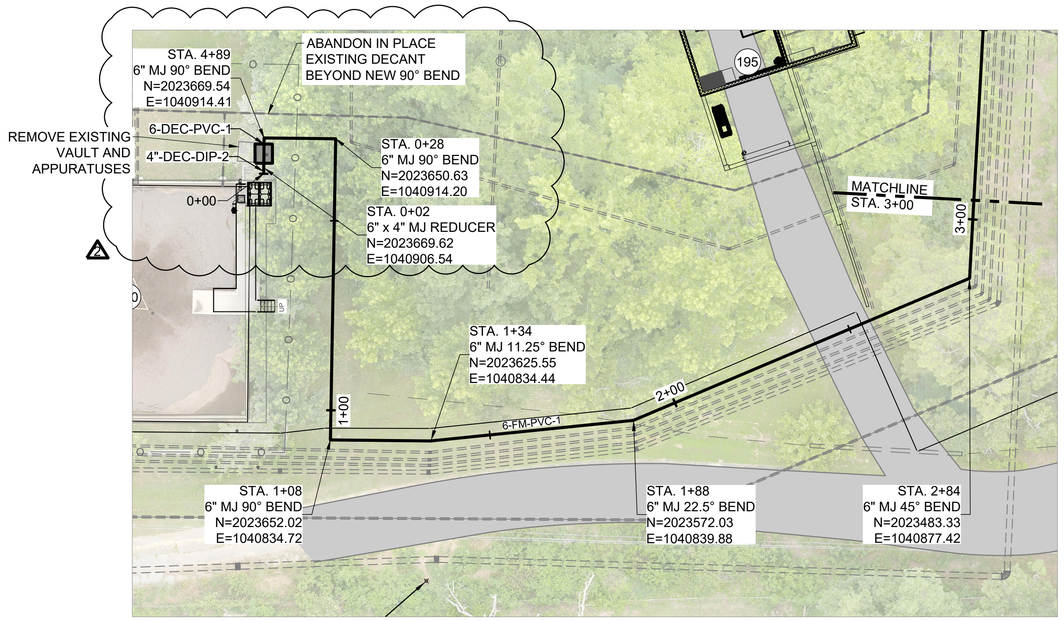
BID SET

PROPOSED PROCESS YARD PIPING PLAN - SOUTH

JOB NO. 24022

SHEET NO. 05C112

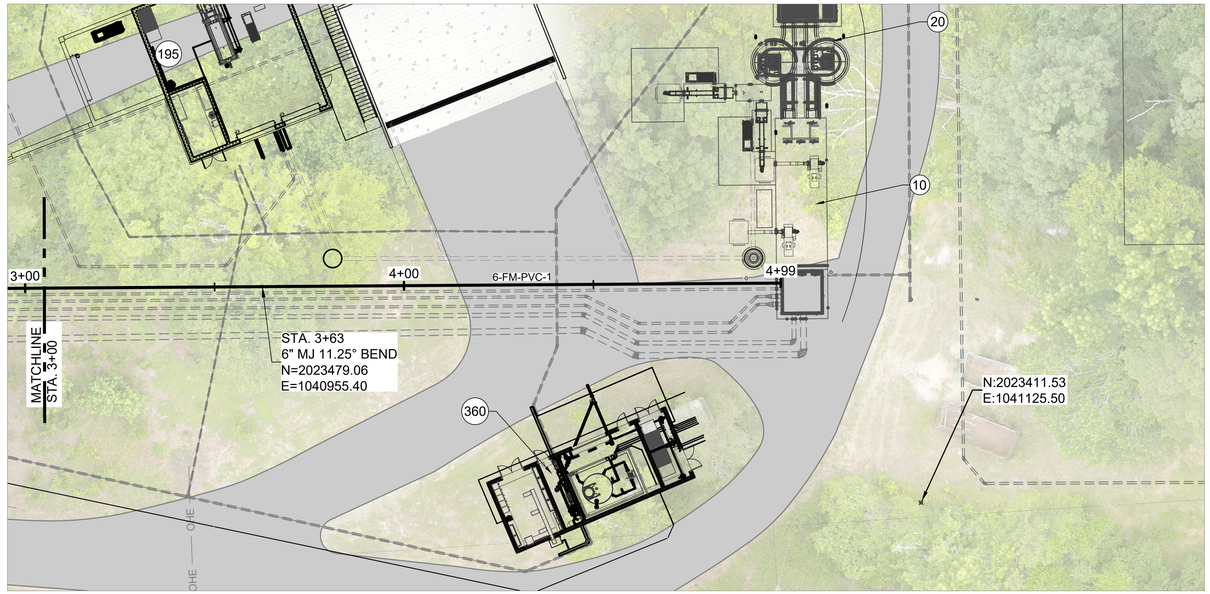
COPYRIGHT © 2025 CRIST ENGINEERS, INC.



PLAN

SCALE: 0 20'

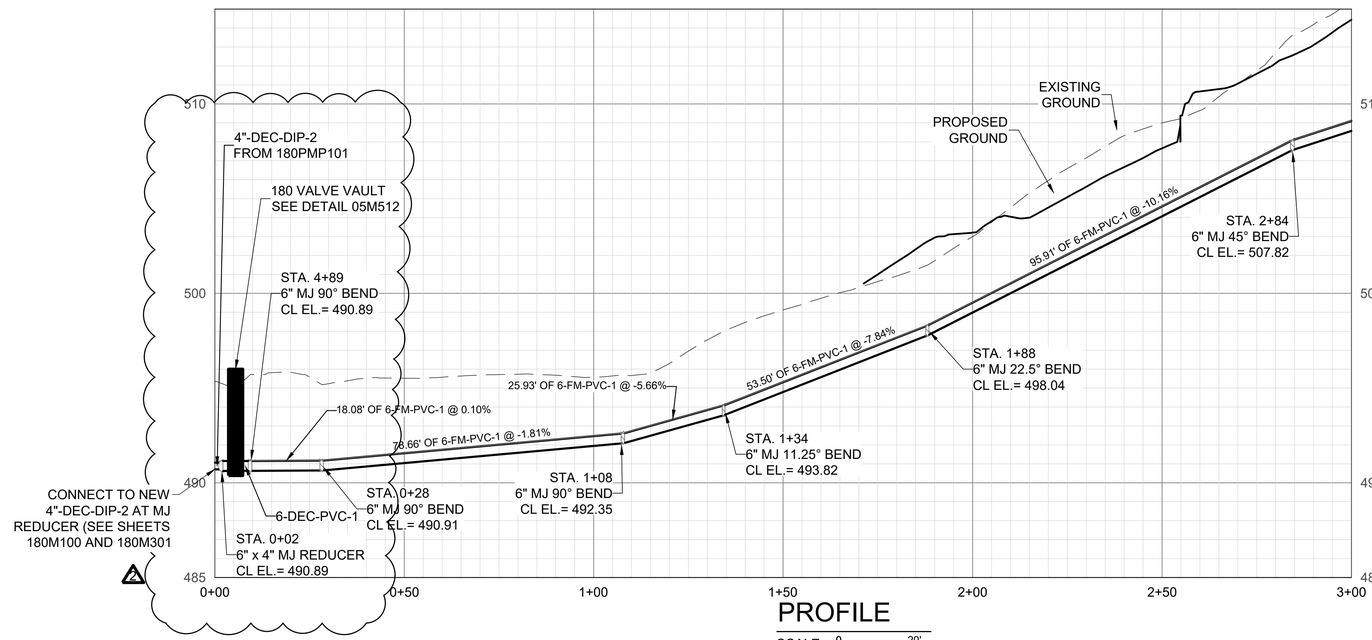
1" = 20'



PLAN

SCALE: 0 20'

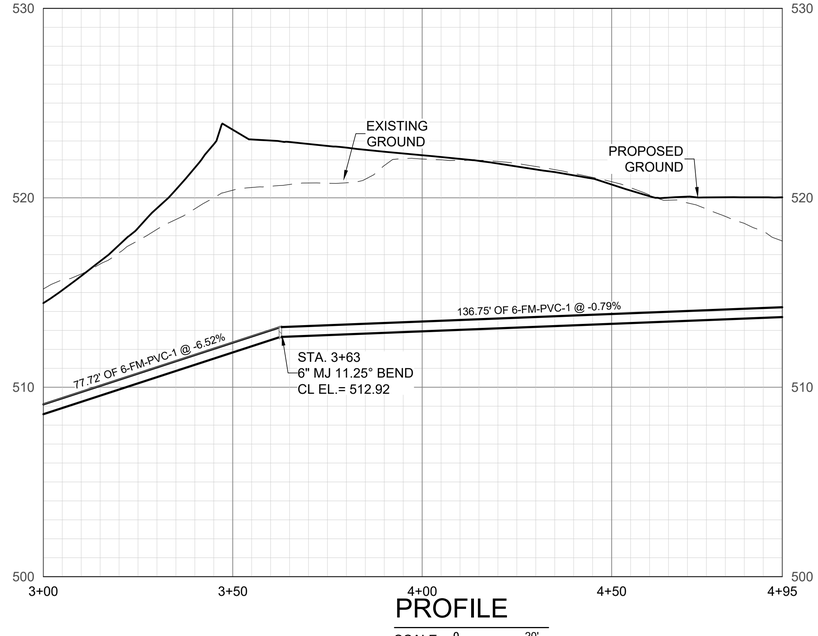
1" = 20'



PROFILE

SCALE: 0 20'

1" = 20'



PROFILE

SCALE: 0 20'

1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/14/26	MAB	BNW	ADDED CLARIFICATION TO CONNECTION FROM MECHANICAL TO CIVIL

CRIST ENGINEERS, INC. CONSULTING ENGINEERS No. 91 — CERTIFICATE OF AUTHORIZATION — ARKANSAS ENGINEER

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No.18592 — BRIAN N. WINTLE — 5/11/2026

0 1"

1" = 1"

THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: MAB

DRAFTED: MAB

CHECKED: BNW

DATE: MAY 2026

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
LITTLE ROCK, ARKANSAS 72211
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

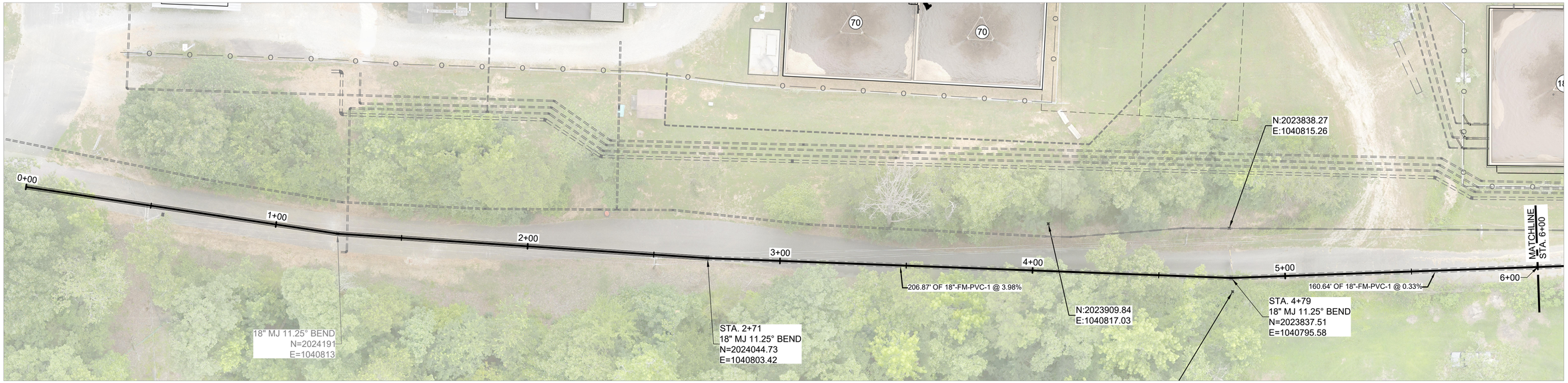
6 INCH FM PVC 1 PLAN & PROFILE - STA. 0+00 TO STA. 4+96

JOB NO. 24022

SHEET NO. 05C301

P:\2024 Projects\24022 - HSVPOA - Cedar Creek WWTP Improvements\06 - CADD\02 - Civil\24022 - 6 INCH FM PVC 1 - PLAN & PROFILE.dwg 5/15/2026 7:18 AM

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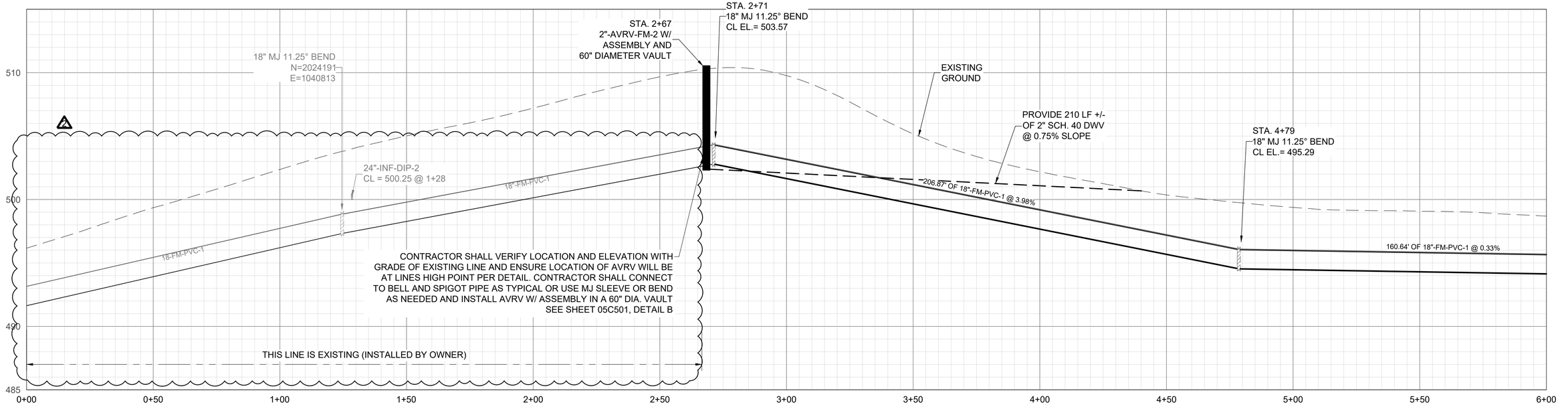


N

PLAN

SCALE: 0 20'

1" = 20'



PROFILE

SCALE: 0 20'

1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/11/26	MAB	BNW	STATION 0+00 THRU STATION 2+66 INSTALLED BY CLIENT

CERTIFICATE OF AUTHORIZATION
CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
No. 91
ARKANSAS ENGINEER

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.18592
BRIAN N. WINTLE
5/11/2026

0 1"

1" = 1"

THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: MAB
DRAFTED: MAB
CHECKED: BNW
DATE: MAY 2026

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
LITTLE ROCK, ARKANSAS 72211
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

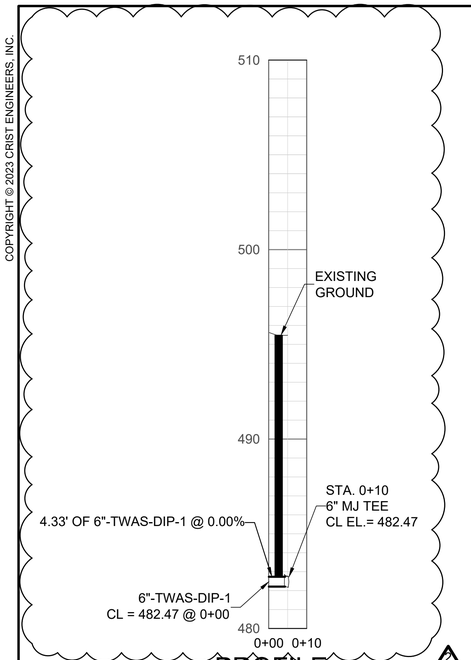
18 INCH FM PVC 1 - PLAN & PROFILE - STA. 0+00 TO STA. 6+00

JOB NO. 24022

SHEET NO. 05C310

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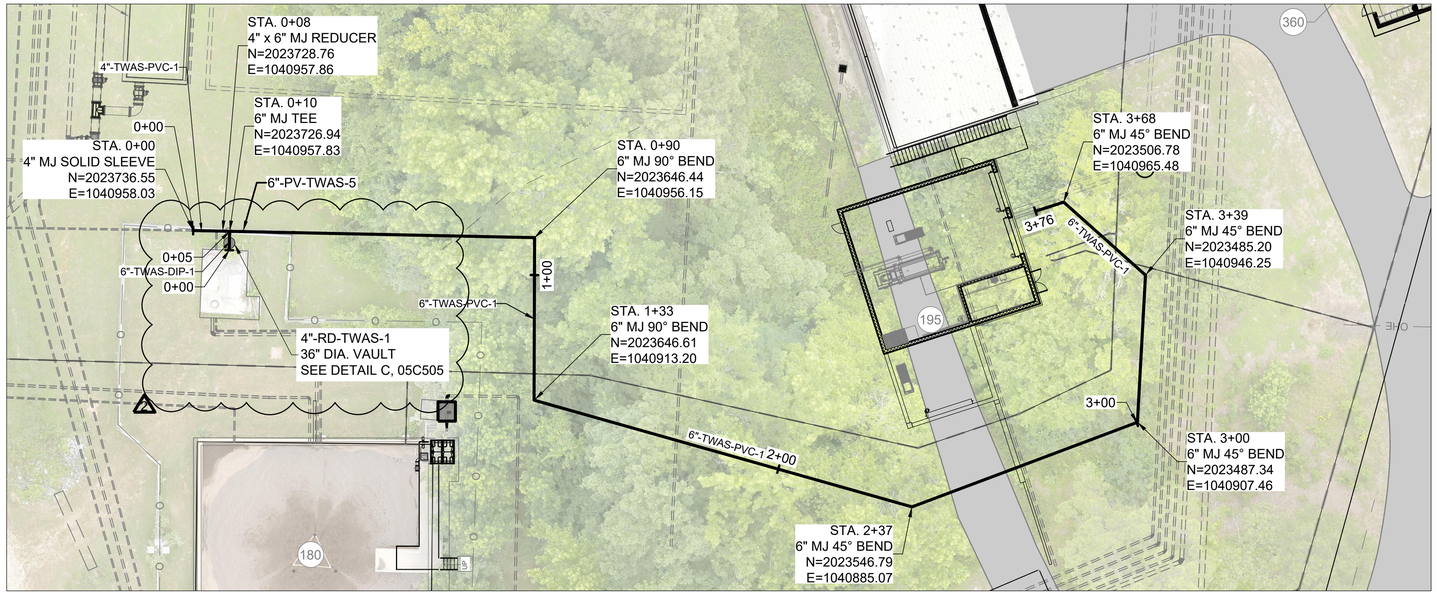
COPYRIGHT © 2023 CRIST ENGINEERS, INC.



PROFILE

SCALE: 0 20'

1" = 20'

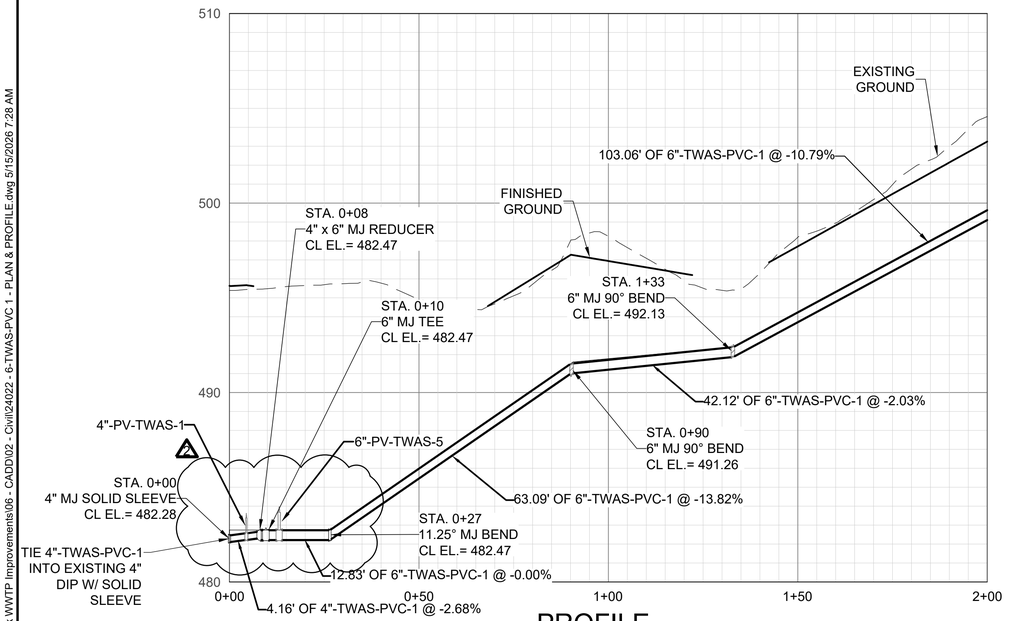


N

PLAN

SCALE: 0 20'

1" = 20'



PROFILE

SCALE: 0 20'

1" = 20'



PROFILE

SCALE: 0 20'

1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/13/26	MAB	BNW	DETAILED TIE IN AND UPDATED PROFILES

CRIST ENGINEERS, INC. CONSULTING ENGINEERS No. 91 — CERTIFICATE OF AUTHORIZATION — ARKANSAS ENGINEER

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 18592 — BRIAN N. WINTLE — 5/11/2026

0 1"

1" = 1"

THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: MAB

DRAFTED: MAB

CHECKED: BNW

DATE: MAY 2026

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
LITTLE ROCK, ARKANSAS 72211
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

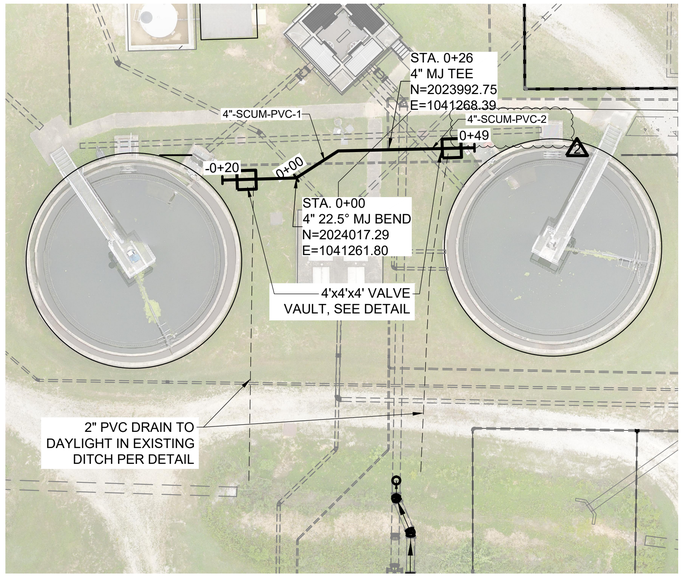
6 INCH TWAS PVC 1 - PLAN & PROFILE - STA. 0+00 TO STA. 3+67

JOB NO. 24022

SHEET NO. 05C314

P:\2024 Projects\24022 - HSVPOA - Cedar Creek WWTP Improvements\06 - CADD\02 - Civil\24022 - 6-TWAS-PVC 1 - PLAN & PROFILE.dwg 5/15/2026 7:28 AM

COPYRIGHT © 2023 CRIST ENGINEERS, INC.

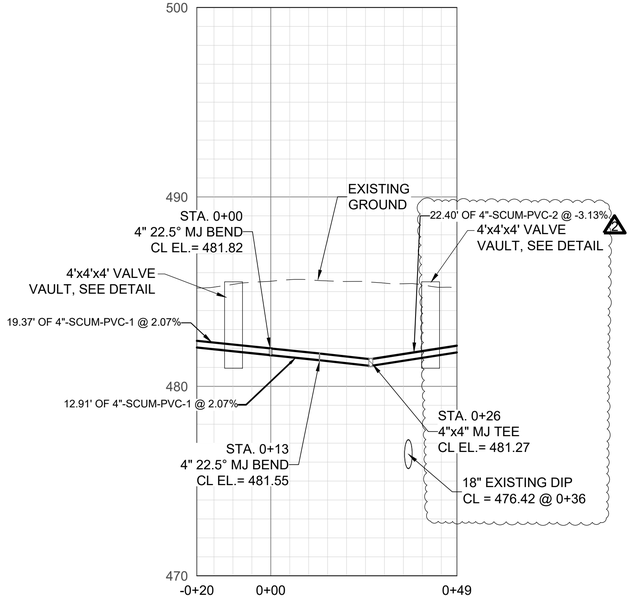


N

PLAN

SCALE: 0 20'

1" = 20'



PROFILE

SCALE: 0 20'

1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/15/26	MAB	BNW	IDENTIFIED 4"-SCUM-PVC-2 ON PLAN AND PROFILE FOR CLARIFICATION

CRIST ENGINEERS, INC. CONSULTING ENGINEERS No. 91 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.18592 BRIAN N. WINTLE 5/11/2026

0 1"

1" = 1"

THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: MAB
DRAFTED: MAB
CHECKED: BNW
DATE: MAY 2026

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
LITTLE ROCK, ARKANSAS 72211
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

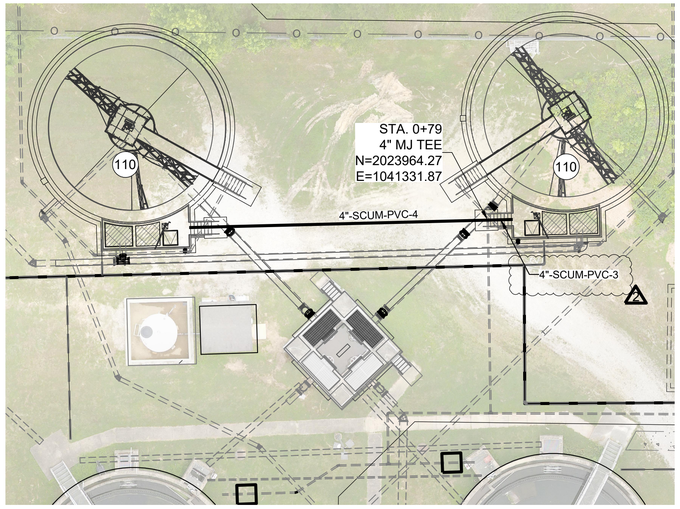
4 INCH SCUM PVC 1 & 2- PLAN & PROFILE - STA. 0+00 TO STA. 0+49

JOB NO. 24022

SHEET NO. 05C316

P:\2024 Projects\24022 - HSVPOA - Cedar Creek WWTP Improvements\06 - CADD\02 - Civil\24022 - 4 INCH SCUM PVC 1 - PLAN & PROFILE.dwg 5/15/2026 11:05 AM

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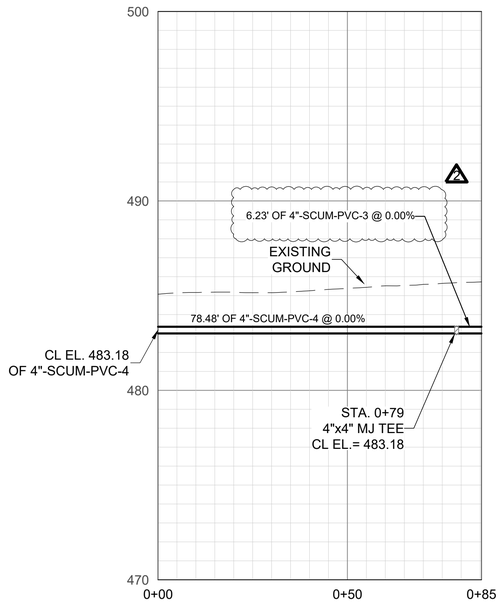


N

PLAN

SCALE: 0 20'

1" = 20'



PROFILE

SCALE: 0 20'

1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/15/26	MAB	BNW	IDENTIFIED 4"-SCUM-PVC-3 ON PLAN AND PROFILE FOR CLARIFICATION

CRIST ENGINEERS, INC. CONSULTING ENGINEERS No. 91 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.18592 BRIAN N. WINTLE 5/11/2026

0 1"

1" = 1"

THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: MAB
DRAFTED: MAB
CHECKED: BNW
DATE: MAY 2026

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
LITTLE ROCK, ARKANSAS 72211
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

2

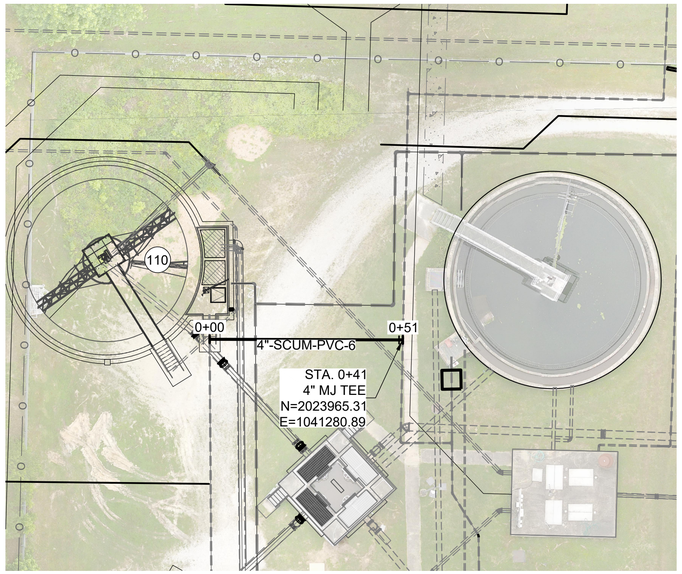
4 INCH SCUM PVC 3 & 4 - PLAN & PROFILE - STA. 0+00 TO STA. 0+85

JOB NO. 24022

SHEET NO. 05C317

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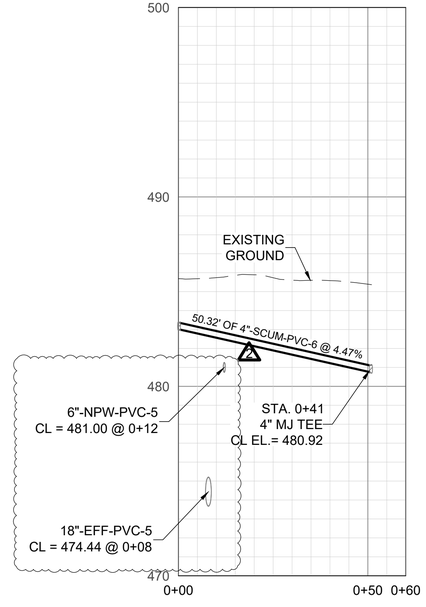
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N

PLAN

SCALE: 0 20'
1" = 20'



PROFILE

SCALE: 0 20'
1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/15/26	MAB	BNW	IDENTIFIED 4"-SCUM-PVC-6 ON TITLE FOR CLARIFICATION & CROSSINGS

CRIST ENGINEERS, INC. CONSULTING ENGINEERS No. 91 — CERTIFICATE OF AUTHORIZATION — ARKANSAS ENGINEER

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 18592 — BRIAN N. WINTLE — 5/11/2026

0 1"
1" = 1"

THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: MAB
DRAFTED: MAB
CHECKED: BNW
DATE: MAY 2026

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
LITTLE ROCK, ARKANSAS 72211
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

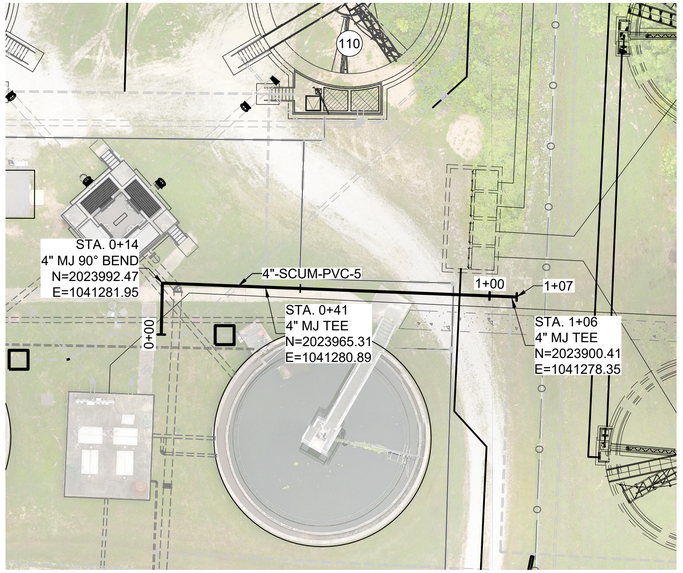
4 INCH SCUM PVC 6 - PLAN & PROFILE - STA. 0+00 TO STA. 0+51

JOB NO. 24022

SHEET NO. 05C318

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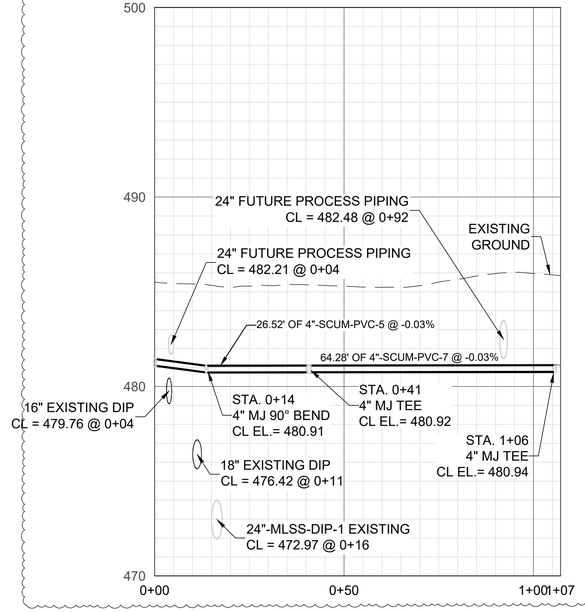
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N

PLAN

SCALE: 0 20'
1" = 20'



PROFILE

SCALE: 0 20'
1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/15/26	MAB	BNW	IDENTIFIED 4"-SCUM-PVC-5 & 7 TITLE & LABELS FOR CLARIFICATION

CRIST ENGINEERS, INC. CONSULTING ENGINEERS No. 91 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.18592 BRIAN N. WINTLE 5/11/2026

0 1"
1" = 1"

THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED:	MAB
DRAFTED:	MAB
CHECKED:	BNW
DATE:	MAY 2026

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
LITTLE ROCK, ARKANSAS 72211
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

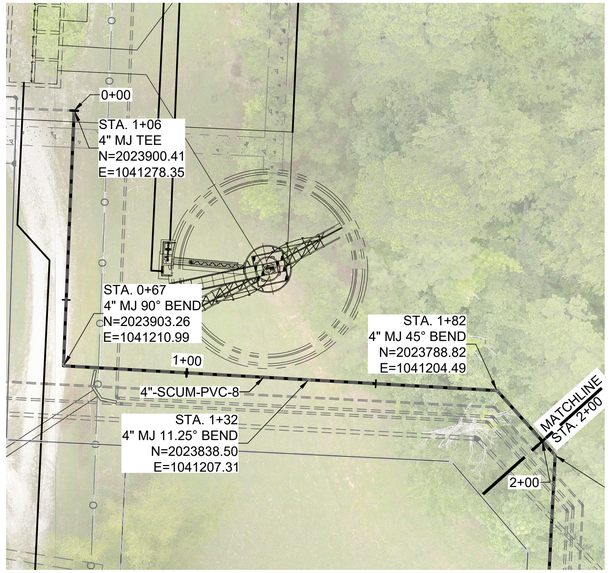
4 INCH SCUM PVC 5 & 7- PLAN & PROFILE - STA. 0+00 TO STA. 1+08

JOB NO. 24022

SHEET NO. 05C319

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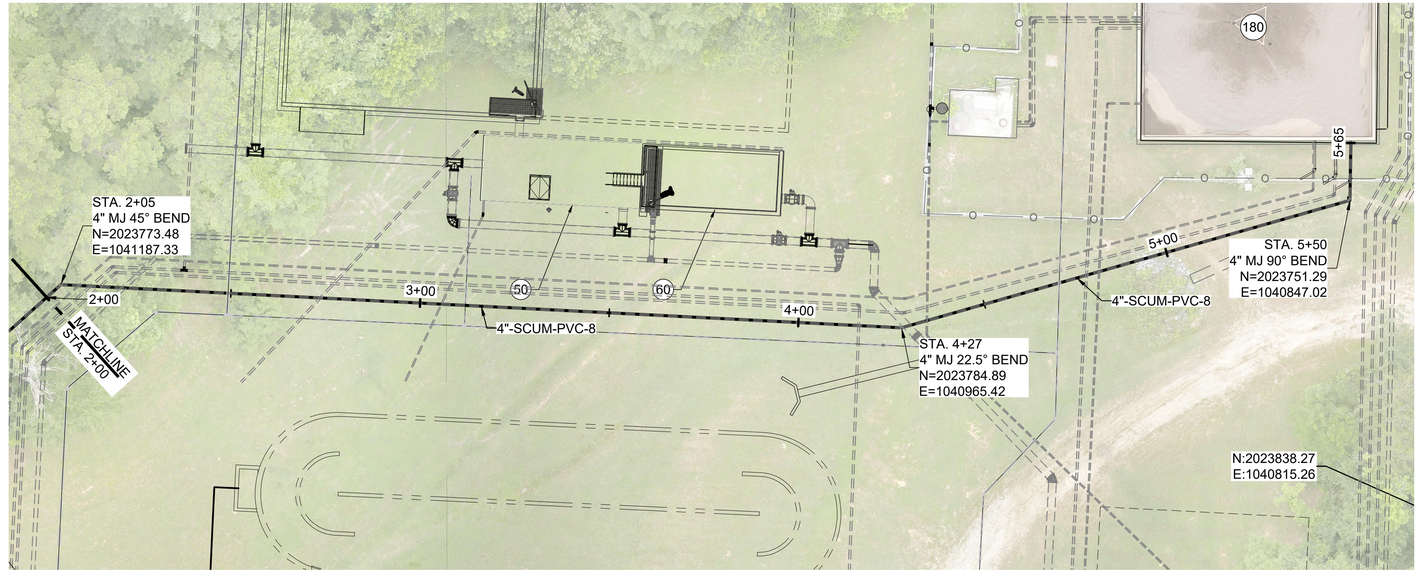


N

PLAN

SCALE: 0 20'

1" = 20'

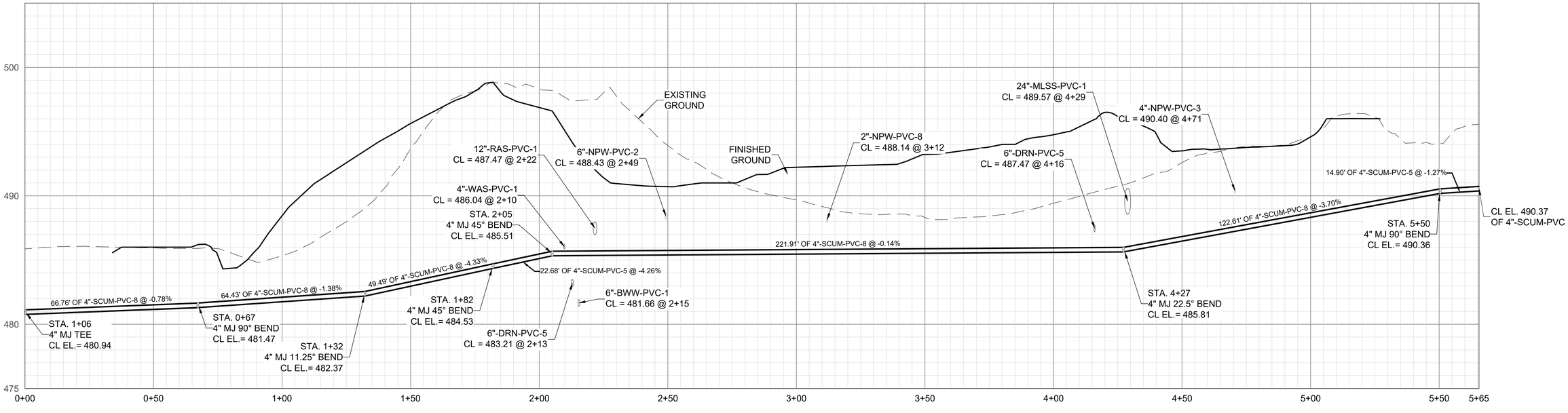


N

PLAN

SCALE: 0 20'

1" = 20'



PROFILE

SCALE: 0 20'

1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/15/26	MAB	BNW	IDENTIFIED 4"-SCUM-PVC-8 ON TITLE FOR CLARIFICATION

CERTIFICATE OF AUTHORIZATION — CRIST ENGINEERS, INC. CONSULTING ENGINEERS No. 91 — ARKANSAS ENGINEER

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No.18592 — BRIAN N. WINTLE — 5/11/2026

0 1"

1" = 1"

THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: MAB
DRAFTED: MAB
CHECKED: BNW
DATE: MAY 2026

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
LITTLE ROCK, ARKANSAS 72211
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

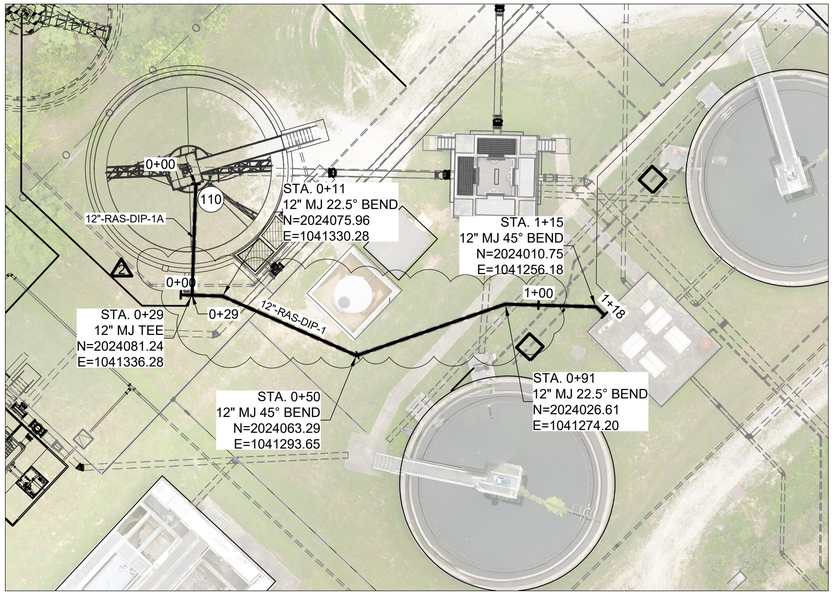
4 INCH SCUM PVC 8 - PLAN & PROFILE - STA. 0+00 TO STA. 5+65

JOB NO. 24022

SHEET NO. 05C320

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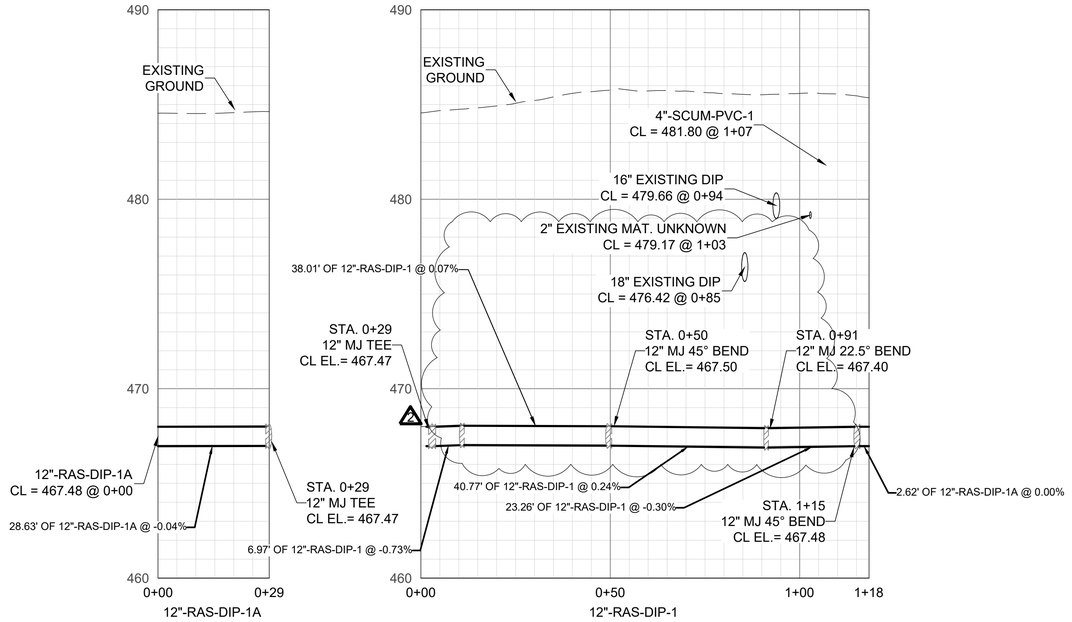
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N

PLAN

SCALE: 0 20'
1" = 20'



PROFILE

SCALE: 0 20'
1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/15/26	MAB	BNW	RELOCATED 12"-RAS-DIP-1 TO AVOID EXISTING STRUCTURE

CERTIFICATE OF AUTHORIZATION — CRIST ENGINEERS, INC. CONSULTING ENGINEERS No. 91 — ARKANSAS ENGINEER

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 18592 — BRIAN N. WINTLE — 5/11/2026

0 1"
1" = 1"
THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: MAB
DRAFTED: MAB
CHECKED: BNW
DATE: MAY 2026

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
LITTLE ROCK, ARKANSAS 72211
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

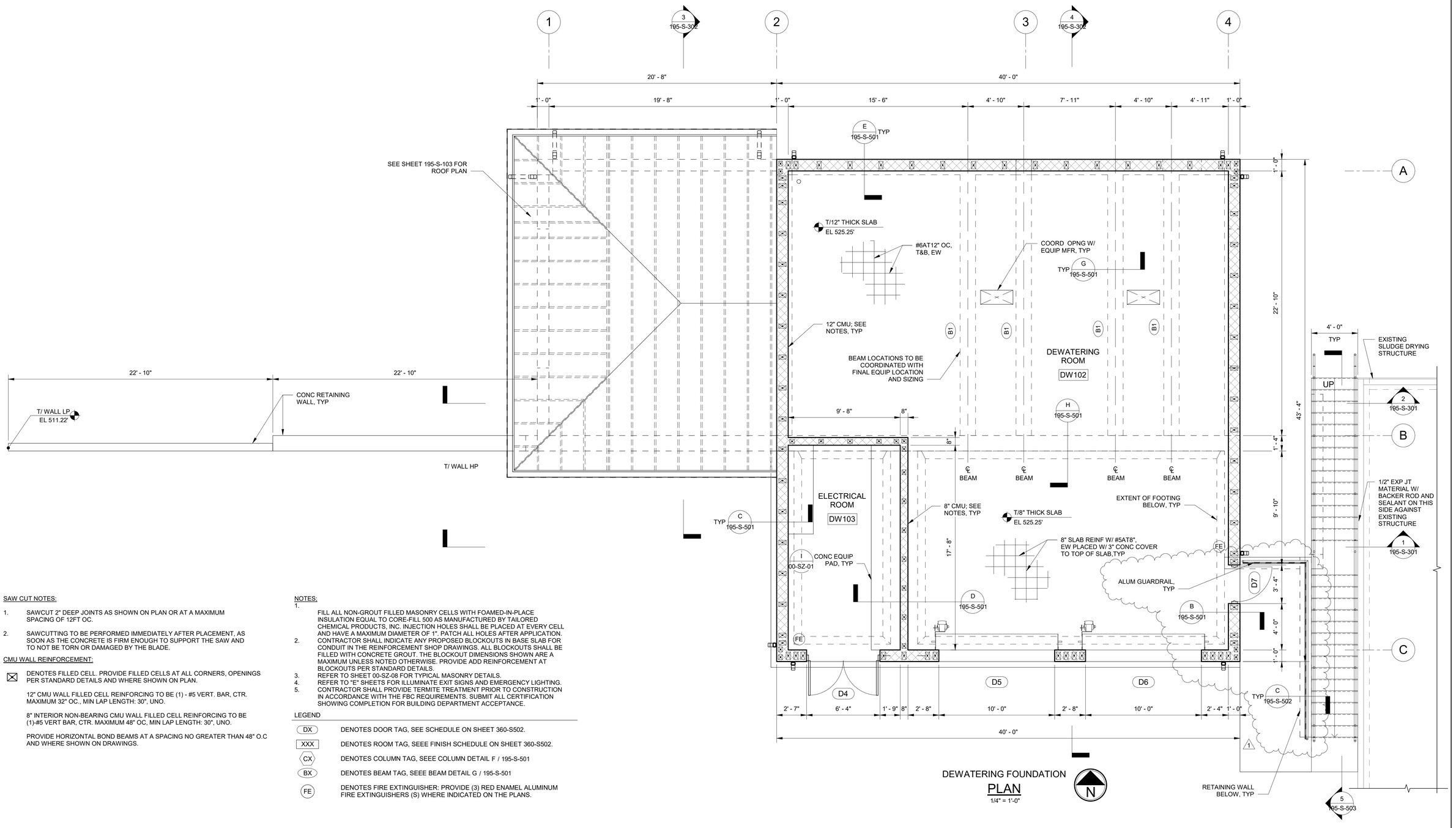
12 INCH RAS DIP 1 - PLAN & PROFILE - STA. 0+00 TO STA. 1+18

JOB NO. 24022

SHEET NO. 05C321

P:\2024 Projects\24022 - HSVPOA - Cedar Creek WWTP Improvements\06 - CADD\02 - Civil\24022 - 12 INCH RAS DIP 1.dwg 5/15/2026 11:10 AM

5/14/2026 10:07:07 AM



DEWATERING FOUNDATION
PLAN
1/4" = 1'-0"

SAW CUT NOTES:

1. SAWCUT 2" DEEP JOINTS AS SHOWN ON PLAN OR AT A MAXIMUM SPACING OF 12FT OC.
2. SAWCUTTING TO BE PERFORMED IMMEDIATELY AFTER PLACEMENT, AS SOON AS THE CONCRETE IS FIRM ENOUGH TO SUPPORT THE SAW AND TO NOT BE TORN OR DAMAGED BY THE BLADE.

CMU WALL REINFORCEMENT:

☒ DENOTES FILLED CELL. PROVIDE FILLED CELLS AT ALL CORNERS, OPENINGS PER STANDARD DETAILS AND WHERE SHOWN ON PLAN.

12" CMU WALL FILLED CELL REINFORCING TO BE (1) - #5 VERT. BAR, CTR. MAXIMUM 32" OC., MIN LAP LENGTH: 30", UNO.

8" INTERIOR NON-BEARING CMU WALL FILLED CELL REINFORCING TO BE (1)-#5 VERT BAR, CTR. MAXIMUM 48" OC, MIN LAP LENGTH: 30", UNO.

PROVIDE HORIZONTAL BOND BEAMS AT A SPACING NO GREATER THAN 48" O.C AND WHERE SHOWN ON DRAWINGS.

NOTES:

1. FILL ALL NON-GROUT FILLED MASONRY CELLS WITH FOAMED-IN-PLACE INSULATION EQUAL TO CORE-FILL 500 AS MANUFACTURED BY TAILORED CHEMICAL PRODUCTS, INC. INJECTION HOLES SHALL BE PLACED AT EVERY CELL AND HAVE A MAXIMUM DIAMETER OF 1". PATCH ALL HOLES AFTER APPLICATION.
2. CONTRACTOR SHALL INDICATE ANY PROPOSED BLOCKOUTS IN BASE SLAB FOR CONDUIT IN THE REINFORCEMENT SHOP DRAWINGS. ALL BLOCKOUTS SHALL BE FILLED WITH CONCRETE GROUT. THE BLOCKOUT DIMENSIONS SHOWN ARE A MAXIMUM UNLESS NOTED OTHERWISE. PROVIDE ADD REINFORCEMENT AT BLOCKOUTS PER STANDARD DETAILS.
3. REFER TO SHEET 00-SZ-08 FOR TYPICAL MASONRY DETAILS.
4. REFER TO "E" SHEETS FOR ILLUMINATE EXIT SIGNS AND EMERGENCY LIGHTING.
5. CONTRACTOR SHALL PROVIDE TERMITE TREATMENT PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE FBC REQUIREMENTS. SUBMIT ALL CERTIFICATION SHOWING COMPLETION FOR BUILDING DEPARTMENT ACCEPTANCE.

LEGEND

DX	DENOTES DOOR TAG, SEE SCHEDULE ON SHEET 360-S502.
XXX	DENOTES ROOM TAG, SEEE FINISH SCHEDULE ON SHEET 360-S502.
CX	DENOTES COLUMN TAG, SEEE COLUMN DETAIL F / 195-S-501
BX	DENOTES BEAM TAG, SEEE BEAM DETAIL G / 195-S-501
FE	DENOTES FIRE EXTINGUISHER: PROVIDE (3) RED ENAMEL ALUMINUM FIRE EXTINGUISHERS (S) WHERE INDICATED ON THE PLANS.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/14/26	JVS	JVS	ADDENDUM NO. 2

STATE OF ARKANSAS CERTIFICATE OF AUTHORIZATION WEKIVA ENGINEERING, LLC No. 3644

ARKANSAS STATE OF LICENSED PROFESSIONAL ENGINEER No. 19092 JOHN V. SIRGEDAS
05/01/26

0 1" — 1" = 1"
THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: JVS
DRAFTED: JAM
CHECKED: DSM
DATE: MAY 2026

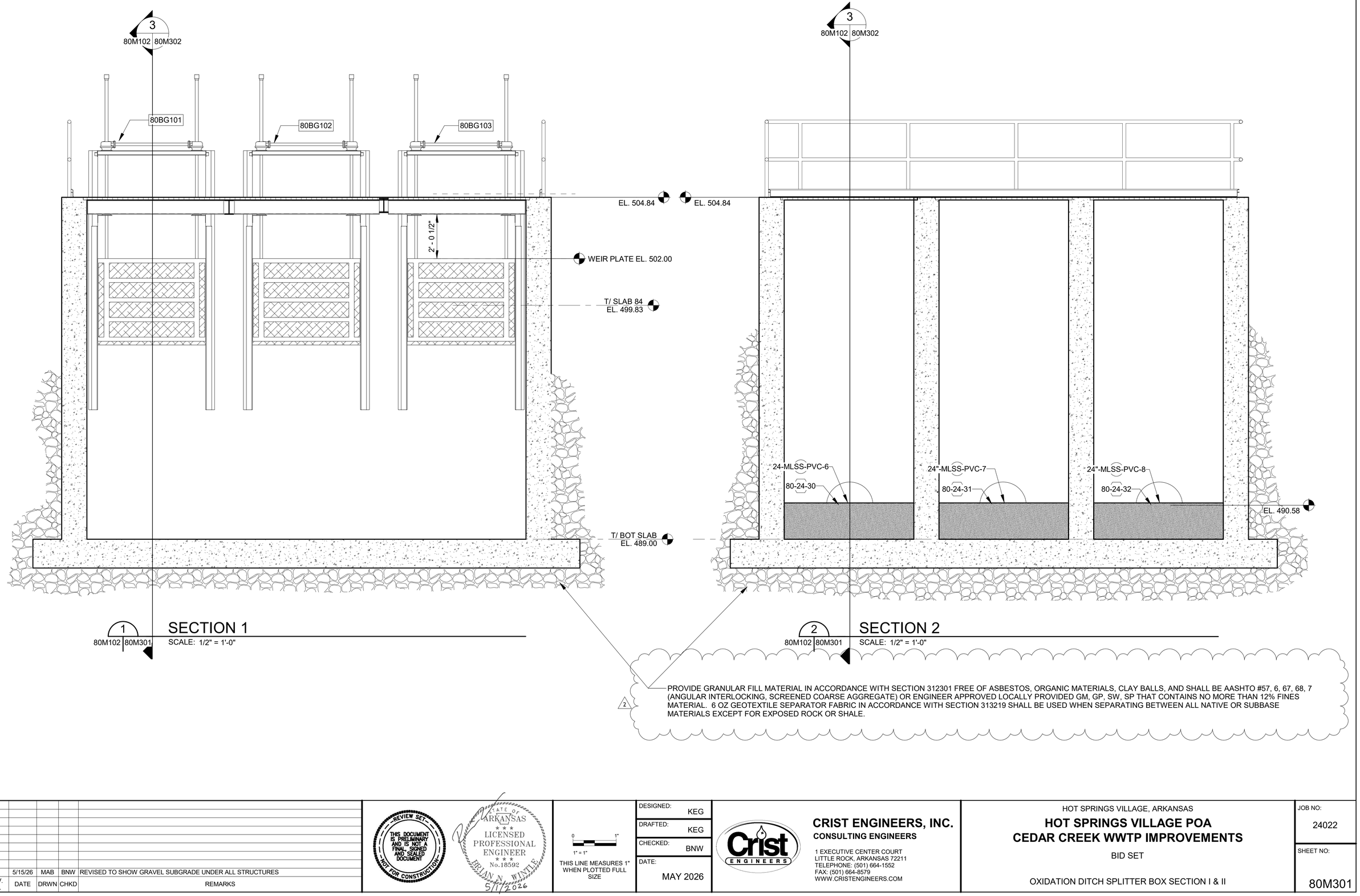
CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
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FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS
HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS
BID SET
DEWATERING BUILDING
UPPER FOUNDATION PLAN

JOB NO: 24022
SHEET NO: 195-S-102

Autodesk Docs://24022 - HSVPOA - Cedar Creek WWTP Improvements/195-S Dewatering Building_R24.rvt

5/14/2026 10:02:54 AM



REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/15/26	MAB	BNW	REVISED TO SHOW GRAVEL SUBGRADE UNDER ALL STRUCTURES

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.18592
BRIAN N. WINTLE
5/14/2026

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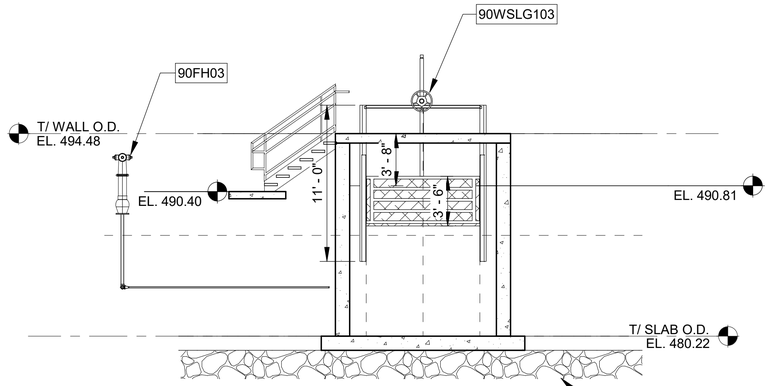
HOT SPRINGS VILLAGE, ARKANSAS
HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS
BID SET

OXIDATION DITCH SPLITTER BOX SECTION I & II

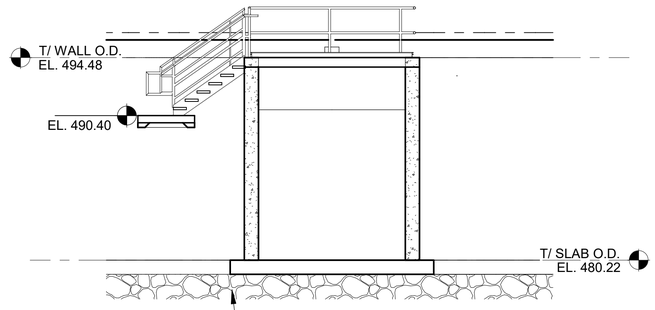
JOB NO: 24022
SHEET NO: 80M301

Autodesk Docs://24022 - HSVPOA - Cedar Creek WWTP Improvements/90-M Oxidation Ditch.rvt

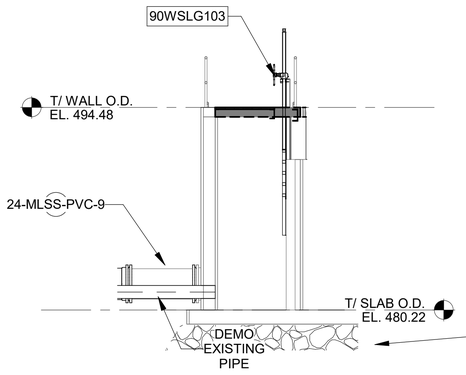
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6 SECTION 6
90-M20000 | 90M301 SCALE: 3/16" = 1'-0"



4 SECTION 4
90M101 | 90M301 SCALE: 3/16" = 1'-0"



5 SECTION 5
90M103 | 90M301 SCALE: 3/16" = 1'-0"

PROVIDE GRANULAR FILL MATERIAL IN ACCORDANCE WITH SECTION 312301 FREE OF ASBESTOS, ORGANIC MATERIALS, CLAY BALLS, AND SHALL BE AASHTO #57, 6, 67, 68, 7 (ANGULAR INTERLOCKING, SCREENED COARSE AGGREGATE) OR ENGINEER APPROVED LOCALLY PROVIDED GM, GP, SW, SP THAT CONTAINS NO MORE THAN 12% FINES MATERIAL. 6 OZ GEOTEXTILE SEPARATOR FABRIC IN ACCORDANCE WITH SECTION 313219 SHALL BE USED WHEN SEPARATING BETWEEN ALL NATIVE OR SUBBASE MATERIALS EXCEPT FOR EXPOSED ROCK OR SHALE.

2

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	5/15/26	MAB	BNW	REVISED TO SHOW GRAVEL SUBGRADE UNDER ALL STRUCTURES

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18592
BRIAN N. WINTLE
5/14/2026

0 1" 1" = 1"
THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: KEG
DRAFTED: KEG
CHECKED: BNW
DATE: MAY 2026

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WWW.CRISTENGINEERS.COM

HOT SPRINGS VILLAGE, ARKANSAS
HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS
BID SET
OXIDATION DITCH SECTION I

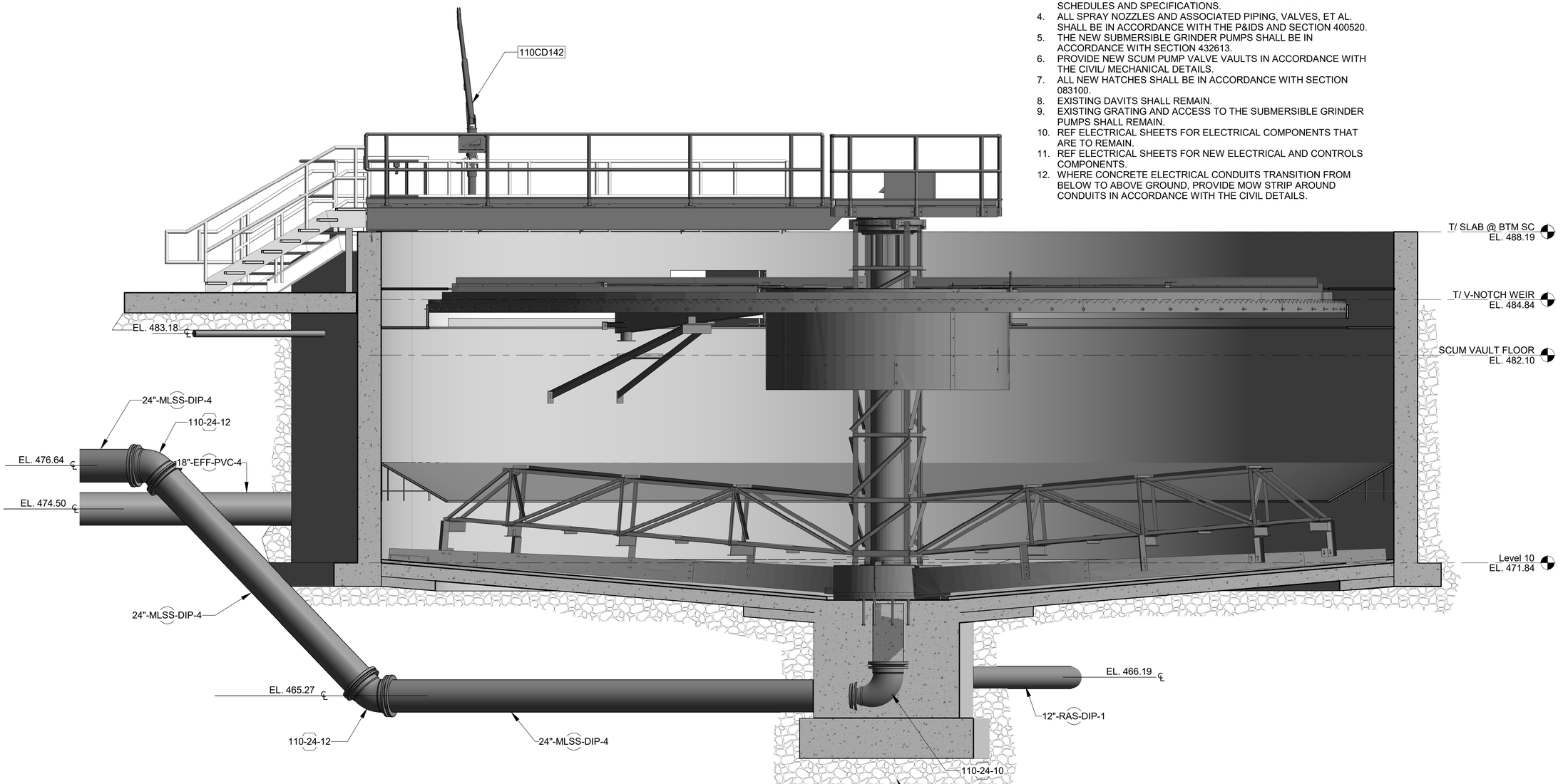
JOB NO: 24022
SHEET NO: 90M301

Autodesk Docs://24022 - HSVPOA - Cedar Creek WWTP Improvements/90-M Oxidation Ditch.rvt

5/14/2026 10:01:48 AM

NOTES:

1. THE CONTRACTOR SHALL REMOVE ALL EXISTING SCUM WET PIT COMPONENTS IN ACCORDANCE WITH THE DEMOLITION PLAN.
2. ALL PROPOSED NEW PIPE PENETRATIONS INTO EXISTING STRUCTURES SHALL BE IN ACCORDANCE STRUCTURAL/ CIVIL DETAILS.
3. INSTALL ALL NEW COMPONENTS, EQUIPMENT AND INSTRUMENTATION IN ACCORDANCE WITH THE P&IDS, SCHEDULES AND SPECIFICATIONS.
4. ALL SPRAY NOZZLES AND ASSOCIATED PIPING, VALVES, ET AL. SHALL BE IN ACCORDANCE WITH THE P&IDS AND SECTION 400520.
5. THE NEW SUBMERSIBLE GRINDER PUMPS SHALL BE IN ACCORDANCE WITH SECTION 432613.
6. PROVIDE NEW SCUM PUMP VALVE VAULTS IN ACCORDANCE WITH THE CIVIL/ MECHANICAL DETAILS.
7. ALL NEW HATCHES SHALL BE IN ACCORDANCE WITH SECTION 083100.
8. EXISTING DAVITS SHALL REMAIN.
9. EXISTING GRATING AND ACCESS TO THE SUBMERSIBLE GRINDER PUMPS SHALL REMAIN.
10. REF ELECTRICAL SHEETS FOR ELECTRICAL COMPONENTS THAT ARE TO REMAIN.
11. REF ELECTRICAL SHEETS FOR NEW ELECTRICAL AND CONTROLS COMPONENTS.
12. WHERE CONCRETE ELECTRICAL CONDUITS TRANSITION FROM BELOW TO ABOVE GROUND, PROVIDE MOW STRIP AROUND CONDUITS IN ACCORDANCE WITH THE CIVIL DETAILS.



1 / 110M102 | 110M301 — SC SECTION 1003

SCALE: 3/8" = 1'-0"

2 PROVIDE GRANULAR FILL MATERIAL IN ACCORDANCE WITH SECTION 312301 FREE OF ASBESTOS, ORGANIC MATERIALS, CLAY BALLS, AND SHALL BE AASHTO #57, 6, 67, 68, 7 (ANGULAR INTERLOCKING, SCREENED COARSE AGGREGATE) OR ENGINEER APPROVED LOCALLY PROVIDED GM, GP, SW, SP THAT CONTAINS NO MORE THAN 12% FINES MATERIAL. 6 OZ GEOTEXTILE SEPARATOR FABRIC IN ACCORDANCE WITH SECTION 313219 SHALL BE USED WHEN SEPARATING BETWEEN ALL NATIVE OR SUBBASE MATERIALS EXCEPT FOR EXPOSED ROCK OR SHALE.

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DESIGNED: JLS
DRAFTED: KEG
CHECKED: BNW
DATE: MAY 2026

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HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

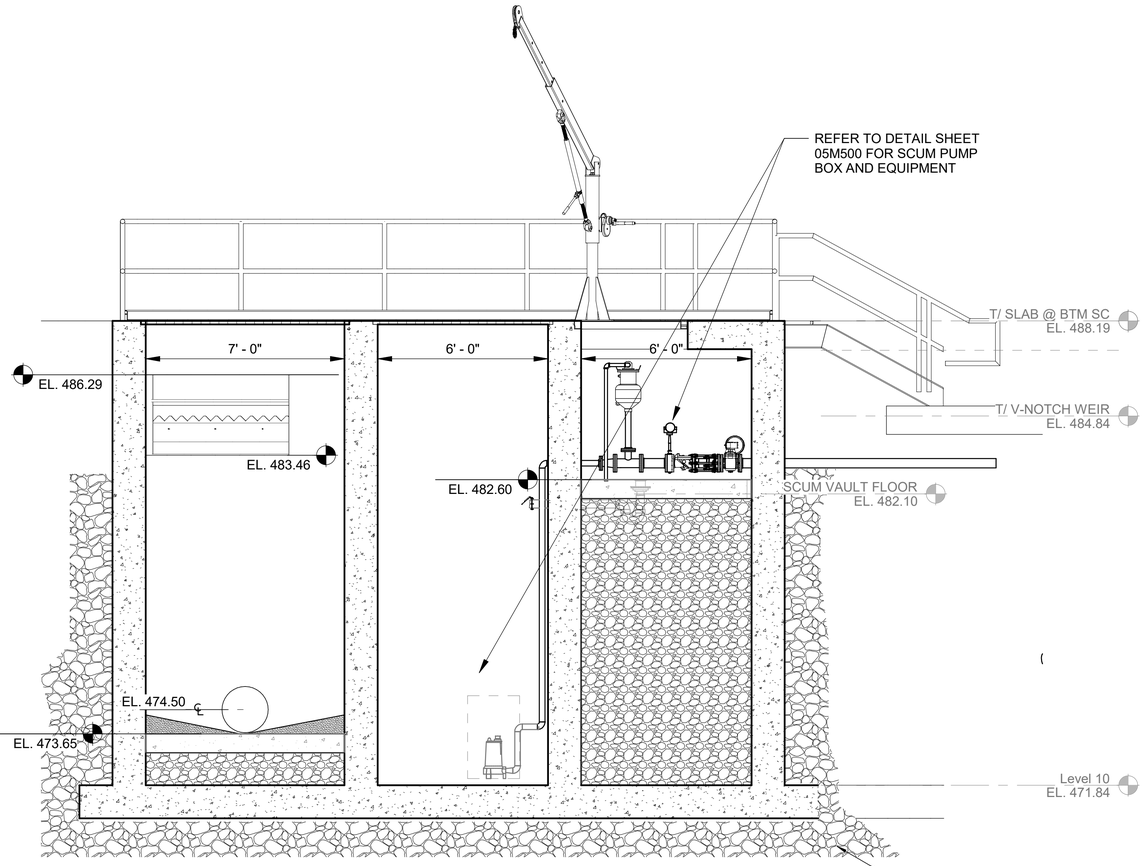
TYPICAL SECONDARY CLARIFIER 1103 SECTION - (ENLARGED)

JOB NO: 24022

SHEET NO: 110M301

Autodesk Docs://24022 - HSVPOA - Cedar Creek WWTP Improvements/100-M-SC Splitter Box & 110-M-NEW CLARIFIERS.rvt

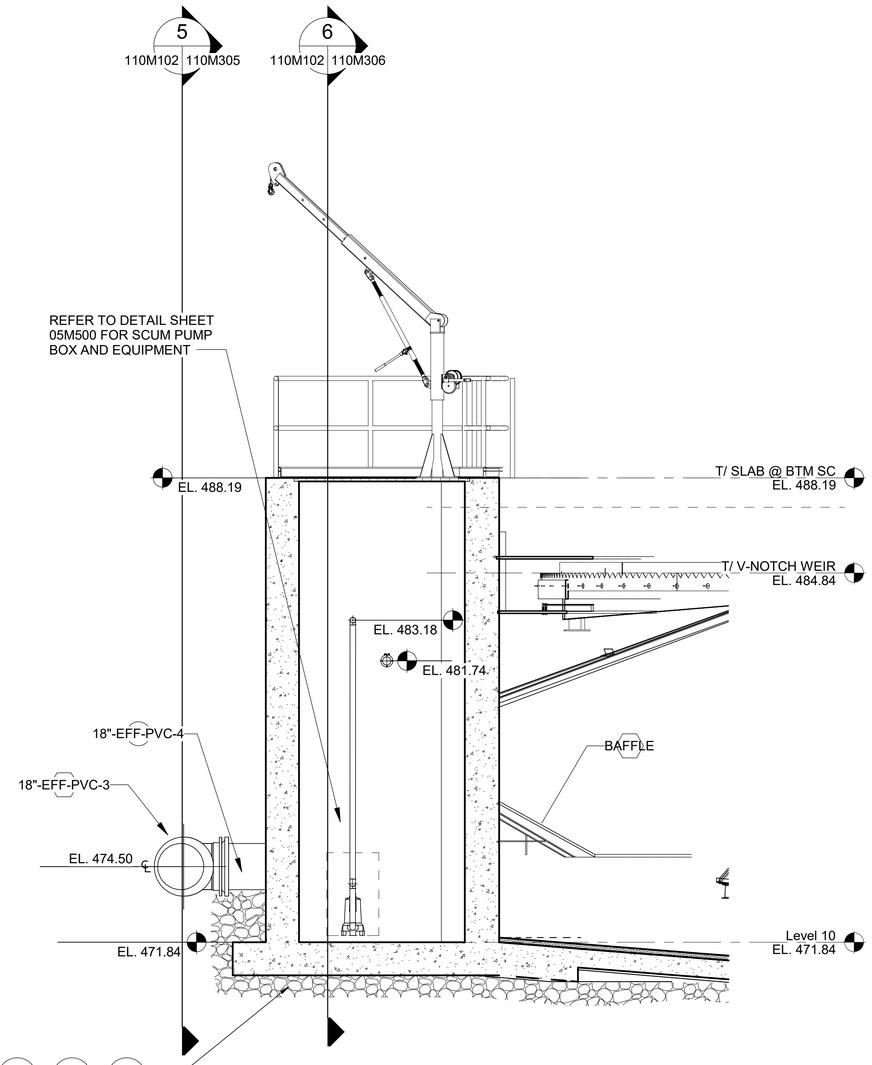
5/14/2026 10:15:13 AM



6
110M102 | 110M306

1103 SCUM PIT

SCALE: 3/8" = 1'-0"



2 PROVIDE GRANULAR FILL MATERIAL IN ACCORDANCE WITH SECTION 312301 FREE OF ASBESTOS, ORGANIC MATERIALS, CLAY BALLS, AND SHALL BE AASHTO #57, 6, 67, 68, 7 (ANGULAR INTERLOCKING, SCREENED COARSE AGGREGATE) OR ENGINEER APPROVED LOCALLY PROVIDED GM, GP, SW, SP THAT CONTAINS NO MORE THAN 12% FINES MATERIAL. 6 OZ GEOTEXTILE SEPARATOR FABRIC IN ACCORDANCE WITH SECTION 313219 SHALL BE USED WHEN SEPARATING BETWEEN ALL NATIVE OR SUBBASE MATERIALS EXCEPT FOR EXPOSED ROCK OR SHALE.

NOTES:

1. ALL SUBMERSIBLE MIXERS, RETRIEVAL GUIDE/ BASE MOUNT AND CABLES SHALL BE IN ACCORDANCE WITH SECTION 464123.
2. THE CONTRACTOR SHALL PROVIDE ALL DAVIT CRANES IN ACCORDANCE WITH SECTION 412213. THE CONTRACTOR SHALL COORDINATE THE CABLE ATTACHMENT TO THE DAVIT CRANE CABLES.
3. ALL ANCHORS FOR THE SUBMERSIBLE MIXERS SHALL BE PROVIDED BY THE CONTRACTOR AND INSTALLED PER MANUFACTURER'S REQUIREMENTS.

7
110M102 | 110M306

1103 SCUM

SCALE: 3/8" = 1'-0"

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5/15/2026

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DESIGNED: JLS
DRAFTED: KEG
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HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

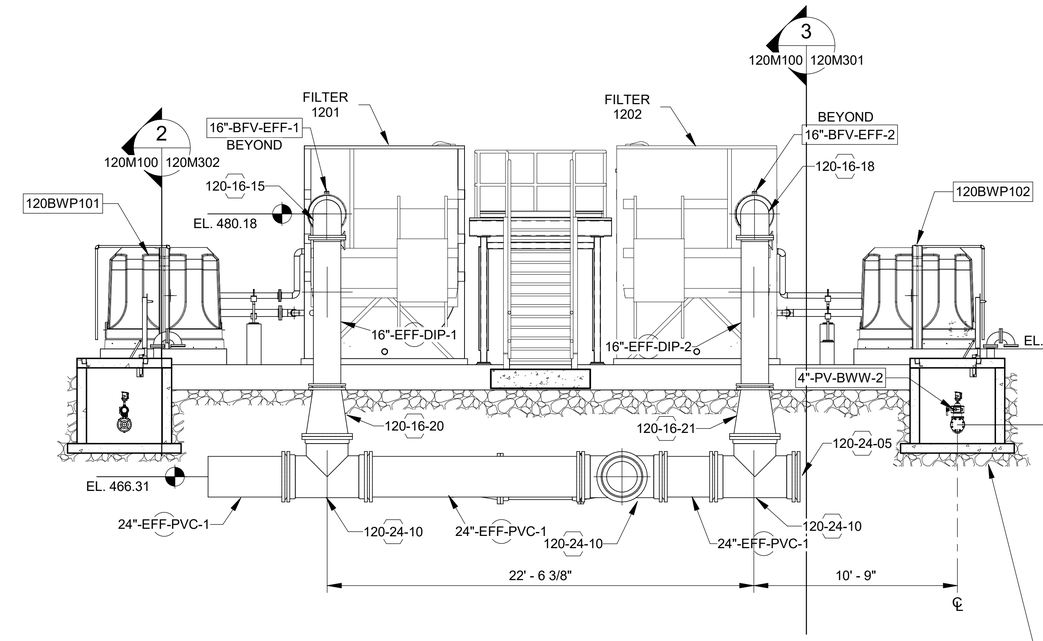
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TYPICAL SECONDARY CLARIFIER 1103 SCUM AND VALVE VAULT SECTIONS

JOB NO: 24022

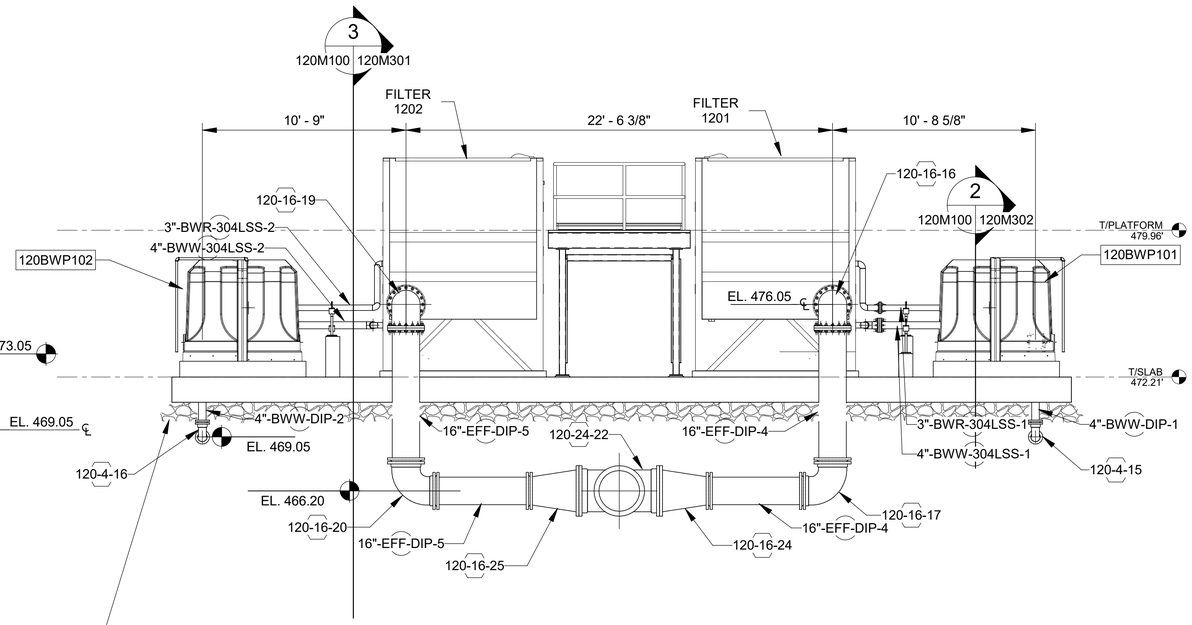
SHEET NO: 110M306

Autodesk Docs://24022 - HSVPOA - Cedar Creek WWTP Improvements/100-M-SC Splitter Box & 110-M-NEW CLARIFIERS.rvt



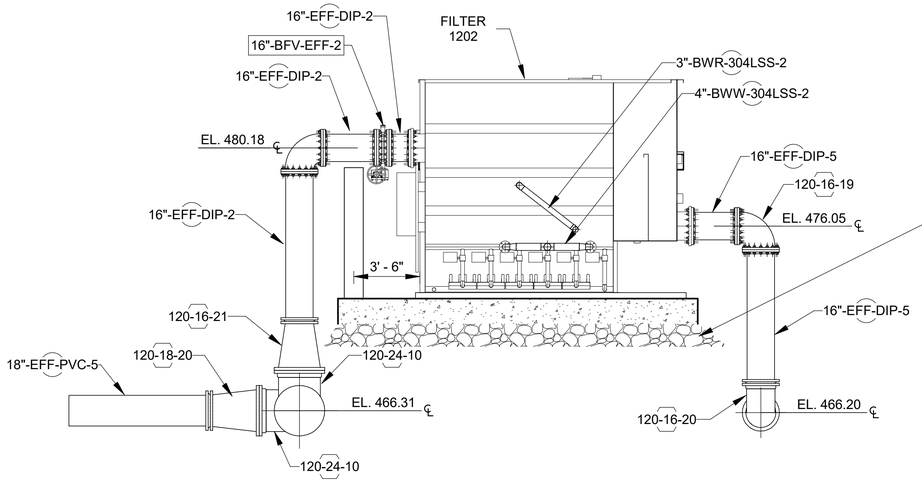
1 TERTIARY FILTERS INLET SECTION

120M100 | 120M301 SCALE: 1/4" = 1'-0"



2 TERTIARY FILTERS OUTLET SECTION

120M301 SCALE: 1/4" = 1'-0"



3 TERTIARY FILTERS SIDE SECTION

120M100 | 120M301 SCALE: 1/4" = 1'-0"

2 PROVIDE GRANULAR FILL MATERIAL IN ACCORDANCE WITH SECTION 312301 FREE OF ASBESTOS, ORGANIC MATERIALS, CLAY BALLS, AND SHALL BE AASHTO #57, 6, 67, 68, 7 (ANGULAR INTERLOCKING, SCREENED COARSE AGGREGATE) OR ENGINEER APPROVED LOCALLY PROVIDED GM, GP, SW, SP THAT CONTAINS NO MORE THAN 12% FINES MATERIAL. 6 OZ GEOTEXTILE SEPARATOR FABRIC IN ACCORDANCE WITH SECTION 313219 SHALL BE USED WHEN SEPARATING BETWEEN ALL NATIVE OR SUBBASE MATERIALS EXCEPT FOR EXPOSED ROCK OR SHALE.

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CRIST ENGINEERS, INC. CONSULTING ENGINEERS No. 91 CORPORATE REGISTRATION ARKANSAS ENGINEER

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.18592 BRIAN N. WINTLE 08/27/2025

0 1" 1" = 1"

THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: MAB
DRAFTED: MAB
CHECKED: BNW
DATE: AUG 2025

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
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HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

AGENCYL REVIEW

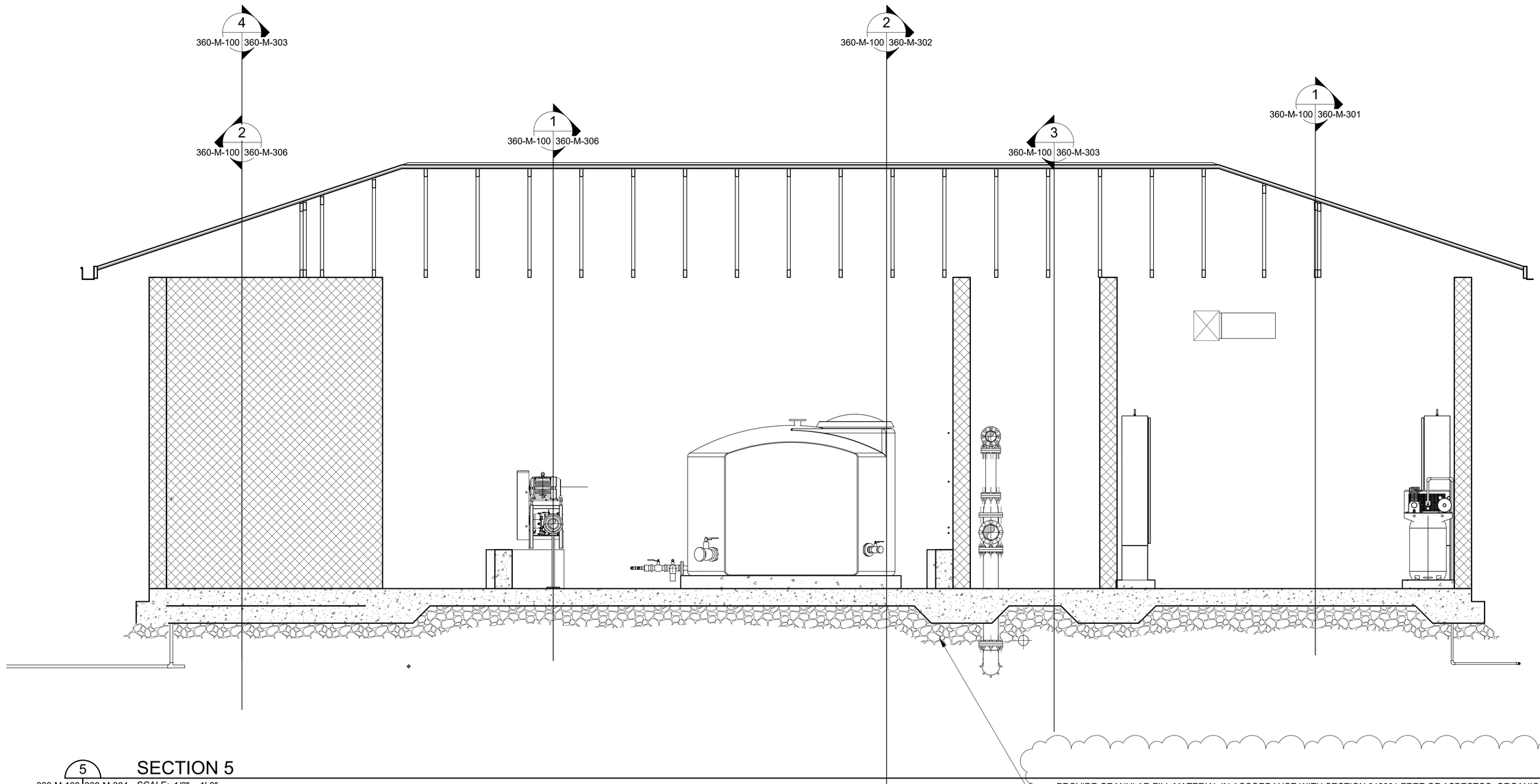
TERTIARY FILTERS SECTIONS

JOB NO: 24022

SHEET NO: 120M301

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Autodesk Docs://24022 - HSVPOA - Cedar Creek WWTP Imporvements/120-M TERTIARY FILTERS.rvt

5/14/2026 11:20:32 AM



5 SECTION 5
360-M-100 | 360-M-304 SCALE: 1/2" = 1'-0"

2 PROVIDE GRANULAR FILL MATERIAL IN ACCORDANCE WITH SECTION 312301 FREE OF ASBESTOS, ORGANIC MATERIALS, CLAY BALLS, AND SHALL BE AASHTO #57, 6, 67, 68, 7 (ANGULAR INTERLOCKING, SCREENED COARSE AGGREGATE) OR ENGINEER APPROVED LOCALLY PROVIDED GM, GP, SW, SP THAT CONTAINS NO MORE THAN 12% FINES MATERIAL. 6 OZ GEOTEXTILE SEPARATOR FABRIC IN ACCORDANCE WITH SECTION 313219 SHALL BE USED WHEN SEPARATING BETWEEN ALL NATIVE OR SUBBASE MATERIALS EXCEPT FOR EXPOSED ROCK OR SHALE.

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 18592 BRIAN N. WINTLE 5/11/2026

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HOT SPRINGS VILLAGE, ARKANSAS
HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS
BID SET
HEADWORKS
BUILDING SECTIONS IV

JOB NO: 24022
SHEET NO: 360-M-304

Autodesk Docs://24022 - HSVPOA - Cedar Creek WWTP Improvements/360-M HEADWORKS ELECTRIC.rvt

MOTOR CONTROL CENTER SCHEDULE

PANEL:	**MCC-M3**	**MLO:**	800	**VOLTAGE:**	480	**BRACING:**	42K	**MLO LOCATION**	TOP	**BUS MTL:**	COPPER
MFG:	AB	**FRAME:**	----	**PHASE:**	3	**MNTG:**	FLOOR	**HORIZ BUS:**	800	**SVC AREA:**	WASTEWATER
TYPE:	C-L	**TRIP:**	----	**WIRE:**	4	**ENCLOS:**	NEMA 1	**VERTICAL BUS:**	300	**NOTES:**	NEW, ALLEN BRADLEY CENTERLINE

	MOTOR		STARTER					POWER		STARTER		
CCT #	HP	AMPS	SIZE	MAX HP	FRAME	TRIP	POLE	WIRING	CONDUIT	TYPE	SERVICE	COMMENTS
1		0.0										
2	60.0	77.0			125	110	3	3#1/0, 1#6EG	2-1/2"C	VFD	90MIX101	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
3	60.0	77.0			125	110	3	3#1/0, 1#6EG	2-1/2"C	VFD	90MIX102	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
4	60.0	77.0			125	110	3	3#1/0, 1#6EG	2-1/2"C	VFD	90MIX103	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
5	60.0	77.0			125	110	3	3#1/0, 1#6EG	2-1/2"C	VFD	90MIX104	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
6	15.0	21.0			60	40	3	3#8, 1#10EG	1-1/2"C	VFD	70MIX101	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
7	15.0	21.0			60	40	3	3#8, 1#10EG	1-1/2"C	VFD	70MIX102	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
8	15.0	21.0			60	40	3	3#8, 1#10EG	1-1/2"C	VFD	90BLW101	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
9	15.0	21.0			60	40	3	3#8, 1#10EG	1-1/2"C	VFD	90BLW102	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
10		0.0										
11		0.0										
12		0.0										
13		0.0										

TOTAL 392.0 AMPS

MIN SIZE 490.0 AMPS

NOTES:
INCLUDE SURGE SUPPRESSION

MOTOR CONTROL CENTER SCHEDULE

PANEL:	**MCC-M4**	**MLO:**	800	**VOLTAGE:**	480	**BRACING:**	42K	**MLO LOCATION**	BOTTOM	**BUS MTL:**	COPPER
MFG:	AB	**FRAME:**	----	**PHASE:**	3	**MNTG:**	FLOOR	**HORIZ BUS:**	800	**SVC AREA:**	BLDG 350
TYPE:	C-L	**TRIP:**	----	**WIRE:**	4	**ENCLOS:**	NEMA 1	**VERTICAL BUS:**	300	**NOTES:**	NEW, ALLEN BRADLEY CENTERLINE

	MOTOR		STARTER					POWER		STARTER		
CCT #	HP	AMPS	SIZE	MAX HP	FRAME	TRIP	POLE	WIRING	CONDUIT	TYPE	SERVICE	COMMENTS
1	60.0	77.0			125	110	3	ON DRAWING	ON DRAWING	VFD	90MIX105	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
2	60.0	77.0			125	110	3	ON DRAWING	ON DRAWING	VFD	90MIX106	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
3	15.0	21.0			60	40	3	ON DRAWING	ON DRAWING	VFD	90BLW103	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
4	15.0	21.0			60	40	3	ON DRAWING	ON DRAWING	VFD	90BLW104	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
5	15.0	21.0			60	40	3	ON DRAWING	ON DRAWING	VFD	90BLW105	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
6	15.0	21.0			60	40	3	ON DRAWING	ON DRAWING	VFD	90BLW106	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
7			0		1	10	3			FVNR	SPARE	
8			0		1	10	3			FVNR	SPARE	
9			0		1	10	3			FVNR	SPARE	
10					60	60	3			BREAKER	SPARE	
11					60	60	3			BREAKER	SPARE	
12					60	60	3			BREAKER	SPARE	
13		2.1			30	15	3	ON DRAWING	ON DRAWING	BREAKER	110-CP-3	
14		2.1			30	15	3	ON DRAWING	ON DRAWING	BREAKER	110-CP-4	
15		3.4			30	15	3	ON DRAWING	ON DRAWING	BREAKER	110SP-CP-3	
16		3.4			30	15	3	ON DRAWING	ON DRAWING	BREAKER	110SP-CP-4	
17											SPACE	

TOTAL 249.0 AMPS

MIN SIZE 311.3 AMPS

NOTES:
INCLUDE SURGE SUPPRESSION

MOTOR CONTROL CENTER SCHEDULE

PANEL:	**MCC-M5**	**MCB:**	400	**VOLTAGE:**	480	**BRACING:**	42K	**MCB LOCATION**	BOTTOM	**BUS MTL:**	COPPER
MFG:	AB	**FRAME:**	400	**PHASE:**	3	**MNTG:**	FLOOR	**HORIZ BUS:**	400	**SVC AREA:**	BLDG 360
TYPE:	C-L	**TRIP:**	400	**WIRE:**	4	**ENCLOS:**	NEMA 1	**VERTICAL BUS:**	300	**NOTES:**	NEW, ALLEN BRADLEY CENTERLINE

	MOTOR		STARTER					POWER		STARTER		
CCT #	HP	AMPS	SIZE	MAX HP	FRAME	TRIP	POLE	WIRING	CONDUIT	TYPE	SERVICE	COMMENTS
1		40.0			60	60	3	4#6, 1#8EG	1-1/4"	BREAKER	10-PLC-1	COORDINATE BREAKER SIZE WITH FINAL EQUIPMENT SELECTION
2		40.0			60	60	3	4#6, 1#8EG	1-1/4"	BREAKER	10-PLC-3	COORDINATE BREAKER SIZE WITH FINAL EQUIPMENT SELECTION
3		40.0			60	60	3	4#6, 1#8EG	1-1/4"	BREAKER	20-PLC-1	COORDINATE BREAKER SIZE WITH FINAL EQUIPMENT SELECTION
4	4.9	7.6			30	15	3	ON DRAWING	ON DRAWING	VFD	60MIX101	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR; VERIFY AMPS TO SIZE VFD
5	3.0	4.8			30	15	3	3#12, 1#12EG	3/4"C	VFD	360PMP101	VFD CABLE, 5% LINE AND LOAD REACTORS
6		8.4			60	40	2	ON DRAWING	ON DRAWING	BREAKER	30/40/50/60-MPC	
7	15.4	22.0			60	60	3	ON DRAWING	ON DRAWING	VFD	40MIX101	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR; VERIFY AMPS TO SIZE VFD
8	15.4	22.0			60	60	3	ON DRAWING	ON DRAWING	VFD	40MIX102	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR; VERIFY AMPS TO SIZE VFD
9		86.6			225	200	3	3#3/0, 1#3/0N, 1#6EG	3"	BREAKER	360-HA	
10		36.7			125	125	3	3#1/0, 1#1/0N, 1#6EG	2-1/2"	BREAKER	360-TA/LA	
11		0.0	1	10	30	25	3			FVNR	SPARE	
12		0.0	1	10	30	25	3			FVNR	SPARE	
13		0.0	1	10	30	25	3			FVNR	SPARE	
14		0.0										
15		0.0										

TOTAL 308.1 AMPS

MIN SIZE 385.1 AMPS

NOTES:
INCLUDE SURGE SUPPRESSION, METERING FOR KW,
KVA, A, V, PF, KVAR

MOTOR CONTROL CENTER SCHEDULE

PANEL:	**MCC-M6**	**MCB:**	800	**VOLTAGE:**	480	**BRACING:**	42K	**MCB LOCATION**	BOTTOM	**BUS MTL:**	COPPER
MFG:	AB	**FRAME:**	800	**PHASE:**	3	**MNTG:**	FLOOR	**HORIZ BUS:**	800	**SVC AREA:**	BLDG 195
TYPE:	C-L	**TRIP:**	800	**WIRE:**	4	**ENCLOS:**	NEMA 1	**VERTICAL BUS:**	300	**NOTES:**	NEW, ALLEN BRADLEY CENTERLINE

	MOTOR		STARTER					POWER		STARTER		
CCT #	HP	AMPS	SIZE	MAX HP	FRAME	TRIP	POLE	WIRING	CONDUIT	TYPE	SERVICE	COMMENTS
1		219.0			400	225	3	ON DRAWING	ON DRAWING	BREAKER	195-PLC-1	
2												
3		44.0			225	150	3	ON DRAWING	ON DRAWING	BREAKER	195-TA/195-LA	
4		87.8			225	200	3	ON DRAWING	ON DRAWING	BREAKER	195-HA	
5	20.0	27.0			60	60	3	ON DRAWING	ON DRAWING	VFD	250PMP101	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
6	20.0	27.0			60	60	3	ON DRAWING	ON DRAWING	VFD	250PMP102	VFD CABLE, DV/DT LOAD SIDE FILTER, 5% LINE SIDE REACTOR
7		0.0			400	400	3			BREAKER	SPACE	
8		0.0			60	60	3			BREAKER	SPARE	
9		0.0	1	10	30	25	3			FVNR	SPARE	
10		0.0	1	10	30	25	3			FVNR	SPARE	
11		0.0									SPACE	
12		0.0									SPACE	
13		0.0										

TOTAL 404.8 AMPS

MIN SIZE 506.0 AMPS

NOTES:
INCLUDE SURGE SUPPRESSION, METERING FOR KW,
KVA, A, V, PF, KVAR

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/15/26	BR	BR	CONFORMED PER ADDENDUM NO. 2

CERTIFICATE OF AUTHORIZATION — RAINWATER ELECTRICAL ENGINEERING, PLLC No. 4265 — ARKANSAS

STATE OF ARKANSAS — BENJAMIN H. RAINWATER — PROFESSIONAL ENGINEER — No. 18640

0 1"
THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED: BR
DRAFTED: BR/TB
CHECKED: BR
DATE: MAY 2026

CRIST ENGINEERS, INC.
CONSULTING ENGINEERS
1 EXECUTIVE CENTER COURT
LITTLE ROCK, ARKANSAS 72211
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
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HOT SPRINGS VILLAGE, ARKANSAS

HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

ELECTRICAL SCHEDULES

JOB NO. 24022

SHEET NO. 00E500

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