

DAILY MONITORING REPORT



PROJECT NAME: Arnold Irrigation District - MCPH2 Seg2 YR 2024 / 2025	CONTRACT NO: AID MCPH2 Piping Project
LOCATION / STA.: AID MCPH2 Segment 2	ID NUMBER: AID - MCPH2 Seg2

CONTRACTOR OR SUBCONTRACTOR: K&E Excavating, Inc.

WEATHER						NUMBER OF PERSONELL AND MAJOR EQUIPMENT																										
CLEAR	FAIR	CLOUDY	SHOWER	RAIN	SNOW	SUPERVISORS	OPERATORS	TRUCK DRIVERS	LABORERS	WELDER HDPE	SURVEYOR	IRON WORKERS	CRUSHER	EXCAVATOR	EXCAVATOR W/ BREAKER	BACKHOE	DOZER	LOADER	SKID STEAR LOADER	BOBCAT GRADER	ROLLER COMPACTOR	BLADE (GRADER)	TRUCK (DUMP)	TRUCK (PAY HAULER)	TRUCK (PICK-UP)	TRUCK (WATER)	CONCRETE BOOM PUMP	BOOM LIFT	FUSION WELDER	PLATE COMPACTOR		
TEMP	TO 32	32 - 50	50-70	70-83	OVER 83																											
WIND	STILL	LOW	MEDIUM	HIGH																												
HUMIDITY	DRY	LOW	MEDIUM	HIGH																												
CONTRACTOR / SUBCONTRACTOR						HOURS																										
K&E Excavating, Inc						10	1	4	6	3		1			5	2								3	3	1			1		1	
Perry Pumping						5		1																								

LOCATION / STA.	AND / OR DESCRIPTION OF WORK	ESTIMATED QUANTITIES		
		ITEM NO.	TOTAL TO DATE	TOTAL %
Sta. 720+00	Temporary Facilities - Staging Area	01500	-	-
Sta. 720+00 to Sta. 867+98	Survey of public monuments, const. limits, const. staking	01406	50%	50%
Sta. 720+00 to Sta. 867+98	Site Clearing	02230	14798	99%
Sta. 807+00 to Sta. 867+98	Selective Demolition bridges and turnout structures	01732	6098	41%
Sta. 803+25 to Sta. 867+98	Trench Excavation 54-IN pipe	02300	6473	43%
Sta. 803+75 to Sta. 867+98	Pipe Install and Field Joint Electrofusion 54-IN pipe	15068	6423	43%
Sta. 818+50 to Sta. 867+98	Installed Pipe Initial Backfill and Densification	02300	4948	33%
Sta. 817+00	Intake Structure foundation slab, concrete placement 70 yds	3300	75%	75%

NOTES: Arrived in work zone 02-25-25 approx. 10:30 AM, departed approx. 1:00 PM

AID MCPH2 Seg2 Contractor conducting operations from temporary staging and material processing area south of China Hat Rd, approx Sta. 720+00 east of canal alignment. Temporary facilities include construction temporary access ways, sanitary facilities, construction zone signage, roadway signage, and LPS base station deployment conforming with Specification 01500. Contractor receiving / stockpiling 3/4"-0 base course aggregate per approved Submittal 20. Contractor processing excavation spoils to produce aggregate base product conforming to specification 02300; 1"-0 Base Course Aggregate.

Contractor stored material at Tekampe Rd x main canal includes 54-IN profile wall HDPE pipe and fittings per spec 15068 and Submittal 16 - KraH HDPE Pipe Rev.1. Other stored material; meter boxes and lids per spec 15050 and Submittal 06 + American Flow Control gate valves per spec 15100 / 15110 and Submittal 04 + 36-IN Hot-dipped galvanized Class B blind flanges for cleanout assemblies.

Contractor continued construction staking MCPH2 Seg2 , approximately 50% complete. Construction staking conforming to Specification 01406 - Construction Staking. Locate and preservation of public monuments by Contractor in process.

PREPARED BY: David C. Prull - Clearwater Eng Grp	SHIFT: Day	S	M	T	✓	W	T	F	S	DATE: 2/25/2025
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USE BACK FOR ADDITIONAL NOTES - SEE BACK



ADDITIONAL NOTES:

Contractor has substantially completed utility locate and coordination of utility relocate Sta. 720+75 China Hat Rd, Sta. 753+50 Knott Rd, and Sta. 790+75 Woodside Rd. Communications between Contractor and public / private utilities ongoing. Avion Water and Roats Water utilities relocation work complete AID MCPH2 pipe crossings Knott Rd and Woodside Rd. Cascade Natural Gas high pressure gas lines west of Knott Rd and north of China Hat Rd potholed and located, no conflicts with planned MCPH2 pipeline. Other utilities to be protected in place. Deschutes County and City of Bend roadway permits AID MCPH2 Seg2 pipe crossings received and posted.

Private water utility Sta. 806+65, 2-IN PE, routed 8-inches over 54-IN HDPE MCPH2 pipeline (photo).

Contractor continues selective demolition of pedestrian bridges and irrigation turnout head gate structures approximate Sta 807+00 to Sta. 867+98 east as pipe trench excavation progresses westbound. Selective demolition complete includes removal of bridge structure Sta. 807+00, private access way crossing MCPH2 pipeline, Type B Trench backfill, alternate access way Tekampe Road in place.

Contractor has complete mass excavation for construction of Intake Structure at Sta. 718+00 (Ref. CO 01) and Intake Structure Dwg SD4. 6-inch thickness structural fill (3/4"-0 Base Course Aggregate State Spec) per approved Submittal 020 and spec Section 02300. Densification of base course aggregate provided with medium weight plate compactor, density test results posted to the project record. Foundation slab dimensions as shown Drawing Sheet SD4. Reinforcing steel per drawing details SD1, SD2, SD3, and SD4. Reinforcing steel in accordance with approved Submittal 024.2 - Inlet Structure Rebar Dwgs R3. Contractor placed by boom pump this day; 70 cyds Hooker Creek Mix Design 50SL428A, 4,500 PSI concrete, 74 degF, 6-IN slump, 6.4% air content, (4) test cylinders taken for ceompressive strength testing

Contractor continued pipe trench excavation for installation 54-IN ID Profile Wall HDPE pipe and fabricated fittings. Trench excavation in progress approx Sta. 803+25 westbound. Excavation in approx 6 feet sandy silt and gravel with broken rock, underlain by hard rock. Trench excavation on line and grade per Drawing Sheet 15 of MCPH2, Seg2 Drawings. Work in accordance with spec 02300 - Earthwork (Photos).

Contractor continues placement and grading pipe bedding material for installation 54-IN Profile Wall HDPE. Pipe bedding material placement, final grading, and compaction in progress approximate Sta. 807+60 westbound. Pipe bedding material; 3/4"-0 aggregate per approved Submittal 25 in accordance with specification 02300 - Earthwork. Contractor finish grading pipe bedding material using laser level take-off from constructions staking hubs. Densification of pipe bedding material provided with medium weight vibratory plate (Photos).

Contractor continues installation 54-IN ID profile wall HDPE pipe by Krah USA. Pipe materials conforming with specification 15068 and approved submittals. Electro-fusion of field pipe joints with Integrifuse Electrofusion Processor Serial No. 00653, 00657, 00665, and 00667. Field welded pipe joints subject to air pressure testing; 25 psig, 5 minutes, PASS criteria: no pressure loss. Air testing of completed field joints in accordance with pipe manufacturers written instructions. Electro-fusion data and air pressure test data recorded and posted to the project record. Installation of 54-IN ID RSC400 pipe in progress approximate Sta. 803+75 westbound.

CEG conducted QA pipe slope measurement interior to installed 54-IN profile wall HDPE pipe using 4-ft smart level at pipe flow line. Measured slope = -0.1% (easterly), measured on pipe interior flow line Sta. 805+10. QA pipe slope measurement in general accord with pipe profile Sheet 16, design slope = -0.089%. (Photos).

Contractor continued placement and densification of initial pipe zone backfill 54-IN ID profile wall HDPE pipe. Observed placement of purple tracer wire directly over the crown of installed pipe. Tracer wire product per approved Submittal 03 and spec 02300. Provisions made for tracer wire turnout to marking post in accordance with Drawing Dtl 1/D1 and 4/D2. Pipe zone material; 3/4"-0 aggregate processed on site from excavation spoils and accepted per approved Submittal 25. Pipe zone material placed in approximate 1 foot lifts and machine manipulated into intimate contact with the pipe in the pipe haunch zone. Compaction provided with excavator mounted sheeps foot roller. Placement and densification work complete to approximate Sta. 818+50 westbound. (Photo).

Contractor continued placement Type A trench backfill material over 54-IN ID profile wall HDPE pipe Type A trench approximate Sta. 820+75 westbound. Type A trench backfill material (final backfill) 3/4"-0 Base Course Aggregate per approved Submittal 020 - Aggregate Base 3/4"-0 State Spec in accordance with specification Section 02300. Densification of pipe trench final backfill provided with large smooth drum roller. Noted installation detectable tape over pipe centerline approximately 18-inches above top crown. Detect tape in accordance with specification Section 23000 and approved Submittal 03.

Contractor to place Type B Trench backfill material at 54-IN ID profile wall HDPE pipe installed Sta. 807+00 at access way crossing. Type B trench backfill material 3/4"-0 Base Course Aggregate per approved Submittal 020 - Aggregate Base 3/4"-0 State Spec in accordance with specification 02300 - Earthwork. Densification of pipe trench final backfill to 95% maximum dry density modified Proctor, AASHTO T-180.

Conducted ovality measurement installed 54-IN profile wall HDPE pipe using tape measure vertical and horizontal axis Sta. 805+10; vertical 54-0/0", horizontal 54-1/8" before backfill. Reference specification 02300 and 15068 for ovality criteria; 1% of pipe diameter = 1/2", ovality measurement Sta. 805+10 within allowable deflection limits, before backfill (Photo).

On-site discussions with field foreman, Craig;

1) Maintain 54-IN pipe installation slope per Drawing pipe profile.

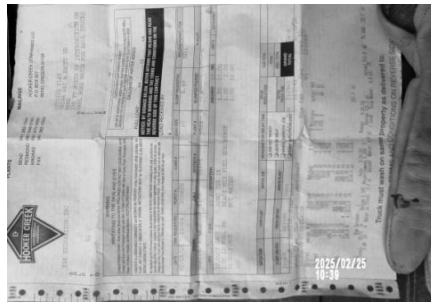
Action Items / Items for Further Discussion:

- 1) Selective demo, protect-in-place weir boxes to remain, maintain access at vehicular bridge removed, salvage items where noted on Dwgs.
- 2) Krah pipe revised lay drawings and pressure rating certification document submittals required.
- 3) Type B Trench backfill density testing results Sta. 863+75 Corral Rd + Sta. 852+50 Pape + Sta. 847+50 Fennimore + Sta. 839+00 Fennimore + Sta. 830+25 Tekampe.

PHOTOGRAPHS:



AID MCPH2 - Sta 718+00 Intake Struct Fnd concrete placement, 70 yd3, 50SL428A, boom pump delivery 02-25-25



AID MCPH2 - Sta 718+00 Intake Struct Fnd concrete placement, 70 yd3, 50SL428A, 74 degF, 6-IN slump, 6.4% Air 02-25-25



AID MCPH2 - Sta 718+00 Intake Struct Fnd concrete placement, 70 yd3, 50SL428A, 4.500 PSI 02-25-25



AID MCPH2 - Sta 718+00 Intake Struct Fnd concrete placement, cut-off trench downstream end of approach slab (2) 02-25-25



AID MCPH2 - Sta 718+00 Intake Struct Fnd concrete placement, cut-off trench downstream end of approach slab (1) 02-25-25



AID MCPH2 - Sta 718+00 Intake Struct Fnd concrete placement, 70 yd3, 50SL428A, high cycle consolidation 02-25-25



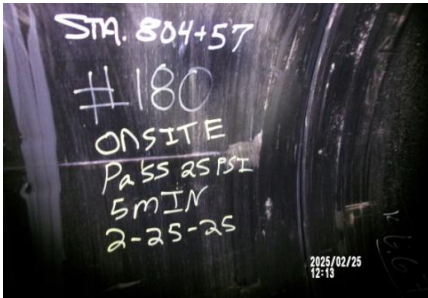
AID MCPH2 - Sta 806+60 54-IN ID profile wall HDPE pipe installed 02-25-25



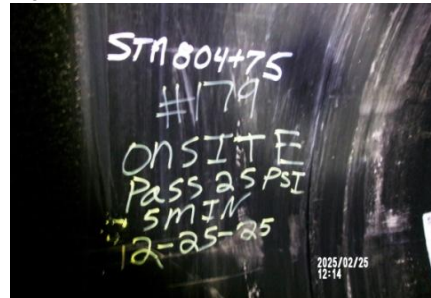
AID MCPH2 - Sta 803+75 54-IN ID profile wall HDPE pipe install and field joint fusion (1) 02-25-25



AID MCPH2 - Sta 803+75 54-IN ID profile wall HDPE pipe install and field joint fusion (2) 02-25-25



AID MCPH2 - Sta 804+57 54-IN ID profile wall HDPE pipe field joint #180 air pressure test PASS 02-25-25



AID MCPH2 - Sta 804+75 54-IN ID profile wall HDPE pipe field joint #179 air pressure test PASS 02-25-25



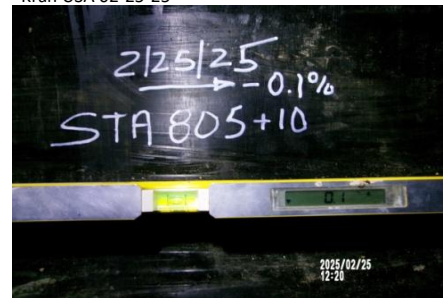
AID MCPH2 - Sta 804+66 54-IN ID profile wall HDPE pipe, 40 degree fabricated bend, product of Krah USA 02-25-25



AID MCPH2 - Sta 803+50 54-IN ID profile wall HDPE pipe bedding 02-25-25

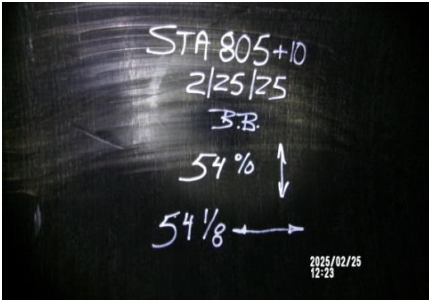


AID MCPH2 - Sta 803+75 54-IN ID profile wall HDPE pipe bed grading 02-25-25



AID MCPH2 - Sta 805+10 54-IN ID profile wall HDPE pipe QA pipe slope measurement -0.1% slope 02-25-25

PHOTOGRAPHS:



AID MCPH2 - Sta 805+10 54-IN ID profile wall
HDPE pipe QA ovality measure before backfill 02-25-25



AID MCPH2 - Sta 806+60 54-IN ID profile wall
HDPE pipe, 2-IN PE private water overcrossing 02-25-25



AID MCPH2 - Sta 818+50 54-IN ID profile wall
HDPE pipe, initial backfill densification 02-25-25



AID MCPH2 - Sta 820+00 54-IN ID profile wall
HDPE pipe, final trench backfill, rough grade 02-25-25