

ADDITIONAL NOTES:

Contractor substantially completed site clearing operations approximate Sta 720+00 to Sta. 867+98 east. Site clearing conforming with Specification 02230 - Site Clearing. Stump removal concurrent with pipe trench excavation and restoration.

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 for AID MCPH2 Seg2 pipe crossings have been received.

Contractor continues selective demolition of pedestrian bridges and irrigation turnout head gate structures approximate Sta 720+00 to Sta. 867+98 east as pipe trench excavation progresses westbound. Selective demolition complete includes removal of bridge structure Sta. 847+30, private access way crossing MCPH2 pipeline.

Contractor continues pipe trench excavation for install 54-IN ID Profile Wall HDPE pipe and fabricated fittings. Trench excavation complete to approximate Sta. 844+75. Trench excavation in progress approximate Sta. 844+75 westbound. Excavation in approximately 3 feet sandy silt, underlain by broken rock. Trench excavation on line and grade as shown Drawing Sheet 19 of MCPH2, Segment 2 Drawings. Work in accordance with specification 02300 - Earthwork. (Photo)

Contractor continues placement and grading pipe bedding material for installation 54-IN Profile Wall HDPE. Pipe bedding material placement and grading complete to approximate Sta. 844+60 westbound. Pipe bedding material placement, final grading, and compaction in progress approximate Sta. 844+55 westbound. Pipe bedding material; 3/4"-0 base course aggregate per approved Submittal 20 in accordance with specification 02300 - Earthwork. Contractor checking finish grade pipe bedding material using laser level take-off from constructions staking hubs. Densification of subgrade and pipe bedding material provided with medium weight vibratory plate. (Photo)

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. 00665 (replacement unit for Serial No. 00667) and processor No. 00654. 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. Witnessed air pressure test field joint No. 61 approximate Sta. 846+80, 48"-54" bladder test equipment, 75 psi bladder pressure, 25 psig test pressure, 5 minute air pressure test, PASS. 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. 845+10 westbound. (Photos)

Conducted slope measurement installed 54-IN profile wall HDPE pipe using 4-ft smart level at pipe flow line. Slope -0.20% (East) measured on pipe interior flow line Sta. 846+90. Slope -0.10% (East) measured on pipe interior flow line Sta. 847+10. QA pipe slope measurement in general accord with pipe profile Sheet 19, design slope = -0.05%. (Photos)

Contractor continued placement and densification of 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 Section 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 Base Course Aggregate per approved Submittal 020 - Aggregate Base 3/4"-0 State Spec. 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 in progress approximate Sta. 848+30 westbound. (Photo.)

Contractor continued placement Type A trench backfill material of 54-IN ID profile wall HDPE pipe Type A trench approximate Sta. 851+30 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 placed Type B Trench backfill material at 54-IN ID profile wall HDPE pipe installed Sta. 847+30. 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 Section 02300. Densification of pipe trench final backfill provided with excavator mounted compaction plate. (Photos).

Conducted ovality measurement installed 54-IN profile wall HDPE pipe using tape measure vertical and horizontal axis Sta. 847+30; vertical 53-1/2" horizontal 54-3/8", after backfill. Reference specification 02300 and 15068 for ovality criteria; 1% of pipe diameter = 1/2", ovality measurement Sta. 847+30 within allowable deflection limits, after backfill. (Photo.)

Noted Contractors potholing for reported private water and sewer utility crossing MCPH2 pipeline Sta. 843+10. Potholing conducted to MCPH2 pipe invert elevation Sta. 842+90 to 843+30, no utilities found in the trench profile. (Photos)

On-site discussions with field foreman, Craig + Levi;

- 1) Pipe pre-heating prior to field joint welding conducted in accordance with pipe manufacturers instructions.
- 2) Pipe bending conducted in accordance with pipe manufacturers instructions.
- 3) Contractor QC includes air pressure testing all field joints 25 psi, 5 minutes, no pressure loss accepted.
- 4) Contractor QC includes pipe slope measurement on flow line of installed pipe. Corrective action required any location with reverse pitch.

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) Utility locate, utility coordination, temp. traffic control plans at unmarked private utility crossings and existing access ways.
- 3) Krah pipe revised lay drawings and warranty document submittals required.

PHOTOGRAPHS:



AID MCPH2 Seg2 - Sta. 844+75 trench excavation and bedding 54-IN ID profile wall HDPE pipe 01-23-25



AID MCPH2 - Sta 845+10 54-IN ID profile wall HDPE pipe setting and field joint electrofusion 01-23-25



AID MCPH2 Seg2 - Sta. 846+33 54-IN ID profile wall HDPE pipe IntegriFuse Electrofusion Processor Serial 00665 (1) 01-23-25



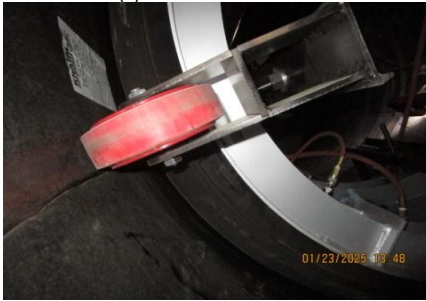
AID MCPH2 Seg2 - Sta. 846+33 54-IN ID profile wall HDPE pipe IntegriFuse Electrofusion Processor Serial 00665 (2) 01-23-25



AID MCPH2 Seg2 - Sta. 846+70 54-IN ID profile wall HDPE pipe and fittings install 01-23-25



AID MCPH2 - Sta 846+80 54-IN ID profile wall HDPE pipe field joint 25 psi pressure test equipment 01-23-25



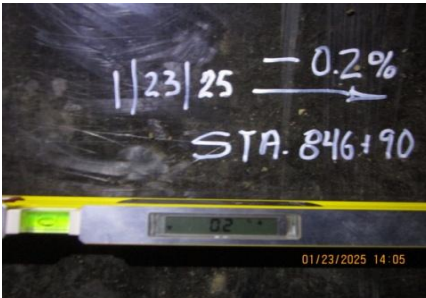
AID MCPH2 - Sta 846+80 54-IN ID profile wall HDPE pipe field joint 25 psi pressure test bladder 01-23-25



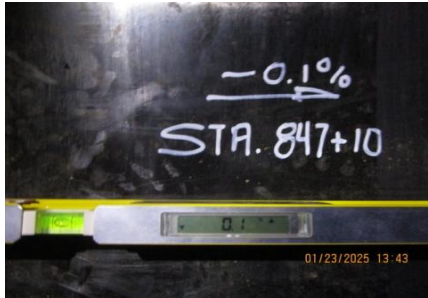
AID MCPH2 - Sta 846+80 54-IN ID profile wall HDPE pipe field joint 25 psi pressure test controller 01-23-25



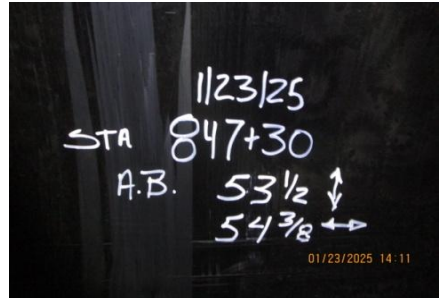
AID MCPH2 - Sta 846+80 54-IN ID profile wall HDPE pipe field joint #61, 25 psi pressure test PASS 01-23-25



AID MCPH2 - Sta 846+90 54-IN ID profile wall HDPE pipe QA slope measurement -0.2% slope 01-23-25



AID MCPH2 - Sta 847+10 54-IN ID profile wall HDPE pipe QA slope measurement -0.1% slope 01-23-25



AID MCPH2 - Sta 854+30 54-IN ID profile wall HDPE pipe QA ovality measurement after backfill 01-23-25



AID MCPH2 Seg2 - Sta. 847+30 54-IN ID profile wall HDPE pipe, Type B Trench backfill (2) 01-23-25



AID MCPH2 Seg2 - Sta. 847+30 54-IN ID profile wall HDPE pipe, Type B Trench backfill (1) 01-23-25



AID MCPH2 Seg2 - Sta. 848+30 54-IN ID profile wall HDPE pipe, pipe zone backfill and compaction 01-23-25

PHOTOGRAPHS:



AID MCPH2 Seg2 - Sta. 843+10 + 20 ft - 20 ft
pothole for private water and sewer, none found
01-23-25



AID MCPH2 Seg2 - Sta. 842+75 damage existing
fence 01-23-25