



STATE OF
COLORADO

Gagnon - DNR, Nikie <nikie.gagnon@state.co.us>

RE: Certification of French drain

1 message

Greg Geras <GregG@asphaltspecialties.com>
To: "Gagnon - DNR, Nikie" <nikie.gagnon@state.co.us>

Thu, Feb 23, 2023 at 11:25 AM

Hi Nikie,

Please find the attached certification report with as-built figure for the French Drain. Please let me know if you have additional questions.

Thanks,

Greg

From: Gagnon - DNR, Nikie <nikie.gagnon@state.co.us>
Sent: Thursday, February 23, 2023 10:42 AM
To: Greg Geras <GregG@asphaltspecialties.com>
Subject: Certification of French drain

[External Email]

Hi Greg.

The July 2018 inspection report states that Asphalt Specialties has a certified as-built drawing for the completed portion of the French drain. Will you please email a copy of the certification for our files.

Thank you,

--

Nikie Gagnon

Environmental Protection Specialist

[Redacted signature]

P 303.866.3567 x8126 | C 720.527.1640 | F 303.832.8106

2/23/23, 12:13 PM

State.co.us Executive Branch Mail - RE: Certification of French drain

Physical: [1313 Sherman Street, Room 215, Denver, CO 80203](#)

Mailing: DRMS Room 215, [1001 E 62nd Ave, Denver, CO 80216](#)

nikie.gagnon@state.co.us | <https://www.drms.colorado.gov>



Speer French Drain Report_DeRey 2015.pdf

2770K

DeRey Consultants, LLC

FINAL REPORT

Speer Perimeter Pit Drain

Prepared Exclusively For

Asphalt Specialties
10100 Dallas Street
Henderson, CO 80640



DeRey Consultants, LLC.

Project Number 15-1300

May 19, 2015

DeRey Consultants, LLC

*Geotechnical * Environmental * Foundation Design * Construction Observation * Materials Testing * Forensics*

Gregg Simmons
Asphalt Specialties Company, Inc.
10100 Dallas Street
Henderson, CO 80640

May 19, 2015

RE: Speer Pit Perimeter Drain
DeRey Consultants, LLC Project No.: 15-1300

As requested De Rey Consultants, LLC. provided engineering oversight during construction of the perimeter drain at the Speer Pit Project.

PHASE I

As part of our oversight, 8 (eight) site visits were made.

On March 27, 2015 one and one half inch backfill had been placed, beginning at station 0+75. The backfill consisted of crushed (recycled) concrete. The depth of the backfill was observed to be 3 feet in thickness from station 0+75 to station 6+50.

Subsequent site visits indicated that the backfill depth was increased to approximately 5 feet, from station 6+50 to station 12+00.

From station 12+00 to station 16+00, the backfill was observed to be approximately 6 feet in depth.

On March 30, 2105 we observed that the 12" SDR17 pipe was being fused in preparation for installation. No abnormalities during the fusing process were noted.

On April 1, 2015 the fused under drain pipe had been installed, from station 0+00 to station 16+00. On April 2, 2015 we observed that the 4 cleanouts had been installed in general conformance with the project design.

On April 2, 2015 we additionally observed that the under drain pipe was receiving the on-site bedding cover material. The cover material thickness was observed to be about 2 feet in thickness. On April 7, 2015, the pit run cover material was completed to station 16+00.

Subsequently, one and one half inch recycled concrete, previously used as bedding, was utilized to backfill the trench.

Phase II

Phase II of the project consisted of installing a check valve from the pond at the Platte River. The plans called for a 20 feet long drain pipe attached to the valve, but the owner/contractor opted for a 40 feet length. The location of this check valve may not ultimately be the final location.

The check valve was installed per plan.

Geotechnical Testing

The coarseness of the bedding cover (filter) material, and backfill precluded conventional density testing. Mechanical gradation tests were performed on the backfill material, and bedding filter materials.

Conclusions

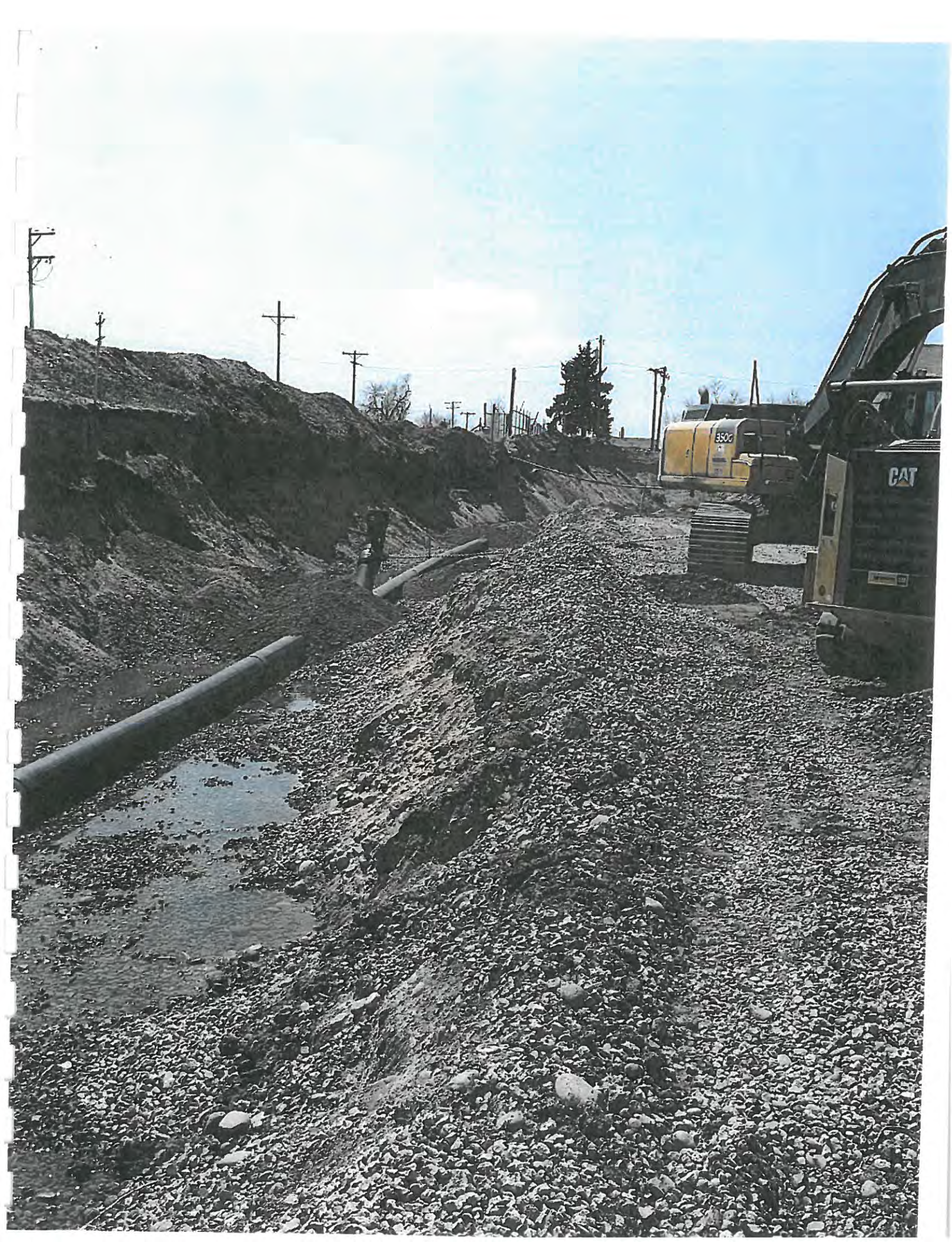
Based on our observations, and past experience, it is our opinion that the under drain was installed in substantial conformance with plans and specifications.

Respectfully Submitted

Douglas L. House
Senior Engineer

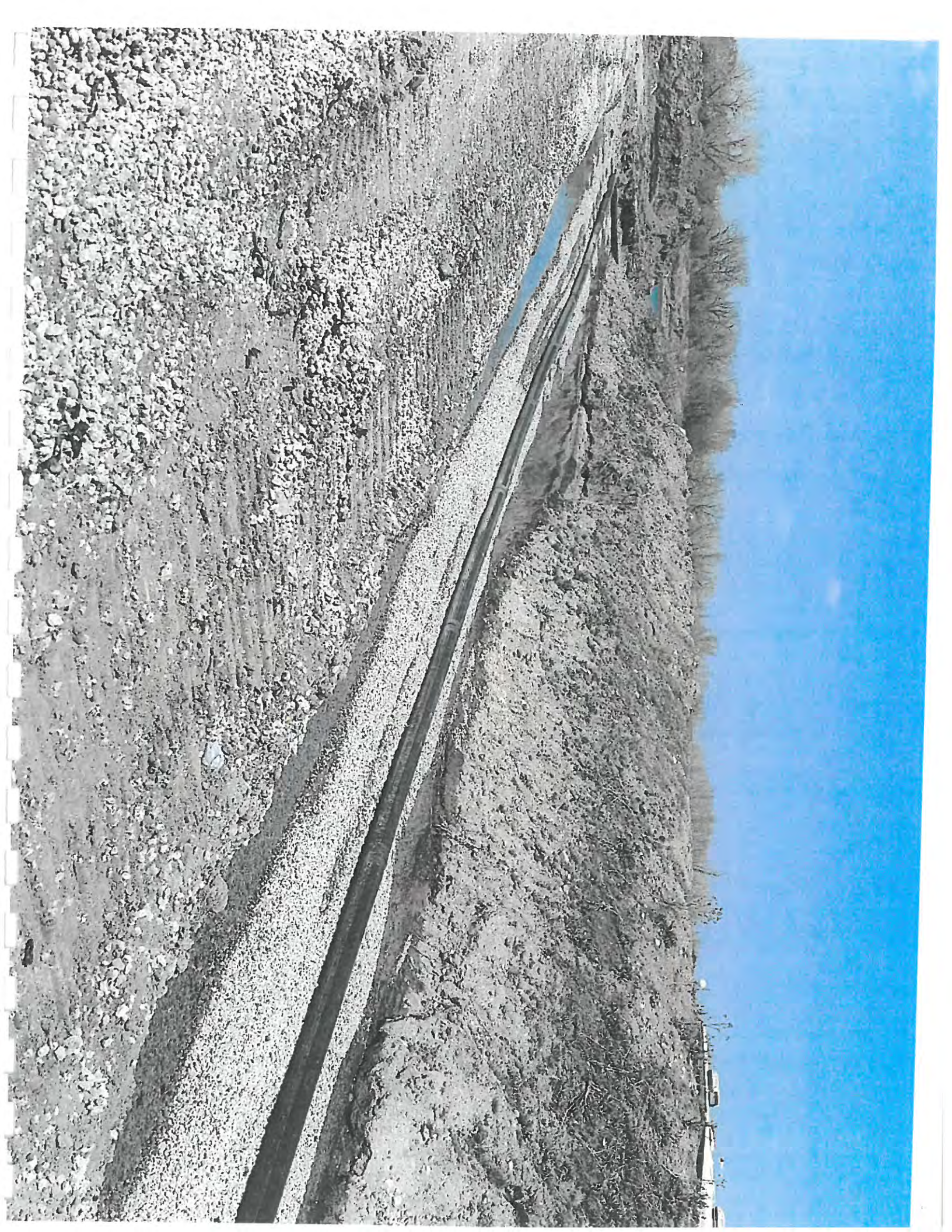
Attachments:

- 1.) Photographs
- 2.) Gradation Results
- 3.) As-Built Drawings
- 4.) Survey As-Built Shots









DeRey Consultants, LLC

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Mechanical Gradation

Project No: 15-1300
Project Title: Speer Pit Perimeter Drain

Placement Date: March 30, 2015
Tech: Matt W.

Sample Number: 1
Mix Identification: Perimeter Drain Bedding

Sieve size in	Percent	Specification	
	Passing		
3.0"	100.0	100%	
3/4"	22.9	15%	70%
#4	0.1	0%	15%
#200	0.0	0%	5%

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Mechanical Gradation

Project No: 15-1300
Project Title: Speer Pit Perimeter Drain

Placement Date: April 6, 2015
Tech: Matt W.

Sample Number: 2
Identification: Perimeter Drain Bedding

Sieve size in	Percent	Specification	
	Passing		
3.0"	100.0	100%	
3/4"	69.0	15%	70%
#4	14.4	0%	15%
#200	3.0	0.0%	5.0%

DeRey Consultants, LLC

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Mechanical Gradation

Project No: 15-1300
Project Title: Speer Pit Perimeter Drain

Placement Date: April 9, 2015
Tech: Matt W.

Sample Number: 3
Identification: Perimeter Drain Bedding

Sieve size in	Percent	Specification	
	Passing		
3.0"	100.0	100%	
3/4"	64.0	15%	70%
#4	13.0	0%	15%
#200	2.4	0.0%	5.0%

[illegible]

