



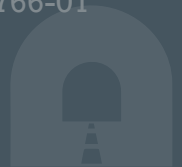
UNITED
CONSULTING

REPORT

For
Rockdale County
Water Resources

Geotechnical Exploration
Scott and Honey Creek WWTPs
Lift Stations and Force Main
Conyers, Georgia

Project No.: ROCKW-21-GA-05766-01
May 5, 2022



May 5, 2022

Mr. David Cervone, P.E.
Rockdale County Water Resources
1329 Portman Dr., Suite H
Conyers GA, 30094

Email: David.Cervone@rockdalecounty.org

RE: Geotechnical Exploration Report
Scott and Honey Creek WWTPs Lift Stations and Force Main
Conyers, Georgia
Project No. ROCKW-21-GA-05766-01

Dear Mr. Cervone:

United Consulting is pleased to submit this Geotechnical Exploration Report for the Scott and Honey Creek WWTPs Lift Stations and Force Main Project. The work was completed in general accordance with Proposal No. P2021.5539.01R1 dated July 11, 2021. This report presents the findings of the subsurface exploration and provides recommendations concerning the proposed project.

We appreciate the opportunity to assist you with this project and look forward to our continued participation. Please contact us if you have any questions or if we can be of further assistance.

Sincerely,

UNITED CONSULTING



Mehdi Moazzami, Ph.D., P.E.
Consultant Geotechnical Engineer



Chris L. Roberds, P.G.
Senior Executive Vice President

MZ/MM/CLR/nj

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APPENDIX A – Boring Logs

A-1 – General Notes / Narrative of Drilling Operations (2 Pages)
A-2 – Exploration Procedures (1 page)
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APPENDIX B – Laboratory Test Results

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1.0 EXECUTIVE SUMMARY

United Consulting has completed a Geotechnical Exploration for the Scott and Honey Creek WWTPs Lift Stations and Force Main Project located in Conyers, Rockdale County, Georgia (Figure 1). Please refer to the text of the report for a more detailed discussion of the items summarized below.

1. Most of the borings encountered fill soils up to depths of 3.5 to 13.5 feet below the grade. Borings B-10, B-21, B-34, B-51, B-54, and B-57 to B-59 were terminated in fill. Below the fills, residual soils were present in the remaining of borings.
2. Partially Weathered Rock (PWR) was encountered only in the boring B-53 at a depth of 3.5 feet.
3. Auger refusal was encountered in B-10 and B-53 at 7 and 9 feet below ground surface, respectively.
4. Groundwater was encountered in borings B-1, and B-58 through B-60 at the end of drilling at depths between 3 and 9 feet-bgs. The contractor should be prepared to remove groundwater or/and perched water, as needed.
5. Control of traffic will be required during construction.

2.0 PROJECT INFORMATION

Rockdale County plans to construct two lift stations at the Scott Creek and Honey Creek wastewater treatment plants (WWTP) sites. The project also includes the installation of approximately 34,500 linear feet of force main from Scott Creek WWTP to the Honey Creek WWTP, and from Honey Creek WWTP to a manhole on the sanitary sewer trunkline located along State Highway 20 near the intersection with Ralph Rd SE.

A provided site plan was utilized to determine the boundaries of the Project Site and the location of the proposed geotechnical borings. The general location of the project site is shown below on the attached Site Location Plan (Figure 1).

3.0 PURPOSE AND SCOPE

The purpose of this Geotechnical Exploration was to provide information and geotechnical engineering recommendations concerning subsurface conditions at the WWTPs and for the proposed force main alignment.

The scope of our geotechnical exploration included the following items:

1. A visual reconnaissance of the site from a geotechnical standpoint;
2. Laying out the proposed boring locations using a hand-held GPS unit;
3. Contacting GA811 Call Before You Dig to clear/mark underground utilities in the area;
4. Coordinating with Rockdale County Government and the Georgia Department of Transportation (GDOT) to obtain the lane closure authorizations for borings located on the associated roads Right-of-Way (ROW);
5. Drilling a total of sixty (60) soil test borings with Standard Penetration Test (SPT) to assess the quality and consistency of the subsurface soils;
6. Field classification of the soil samples obtained during our field-testing program for further identification and classification;
7. Performing laboratory testing on select soil samples;
8. Analyzing the existing soil conditions with respect to the proposed construction plan; and
9. Preparing this geotechnical exploration report to document the results of our field-testing program, engineering analysis, and to provide our findings and general recommendations.

4.0 REGIONAL GEOLOGY

Based on the Greater Atlanta Region geological map 1:24,000 (Bulletin 96, Georgia Geologic Survey), the Project Site is located in the Southern Piedmont Physiographic Province of Georgia, which is characterized by medium to high-grade metamorphic rocks and scattered igneous intrusions (USGS I-2602 Scale 1:100,000 30'x60' Quadrangle, 2003). The term metamorphic describes rocks that have been subjected to high temperature and/or pressure, usually deep within the Earth's crust. This high temperature and pressure, causing the textural and mineralogical characteristics of the original rock to be altered and can also cause certain rock types to fully melt, becoming what is known as magma. Magma is less dense than the surrounding solidified rock and tends to move upward through fractures, displacing the surrounding rock. This rock type is known as an igneous intrusion. Metamorphic rocks are predominant in this region but due to erosion and uplift, both of these rock types will eventually become exposed at the land surface. According to the geological map of Georgia, the rock types underlying the Project Site, are indicated as Biotitic Gneiss, Amphibolite, and mica schist which are highly metamorphosed rocks. The subsurface bedrock in this region has undergone different rates of weathering which often produces a considerable variation in depth to competent rock over short horizontal distances. Subsurface conditions usually encountered include the upper horizon soils and saprolites (residual soils which maintain the original fabric of the parent rock), and partially weathered rock. These overlay the parent crystalline rock of "massive bedrock" which occurs at depth.

Table 1 summarizes the major natural soil units and their in-situ properties at the project site (along the proposed sewer alignment) according to the Natural Resources Conservation Service (NRCS) Soil Survey of Rockdale County, Georgia. The order of appearance of soil units is based on their extent of presence at the project site.

Table 1 – Major Natural Soils at the Project Site (based on NRCS)

Location at Project Site	Natural Soil Unit (Symbol)	Soil Drainage	Depth to Water Table (inches)	Hydraulic Conductivity
Scott Creek WWTP	Toccoa and Congaree soils (TCA)	Moderately well drained	30 – 60	Moderately high to high
Scott Creek WWTP through Honey Creek WWTP	Cecil-Urban land complex (CuC)	Well drained	> 80	Moderately high to high
	Cecil sandy loam (CeB)			
	Madison sandy clay loam (MdC2)			
Honey Creek WWTP (including access road)	Cartecay and Chewacla soils (CCA)	Somewhat poorly drained	> 80	High
	Madison sandy clay loam (MdE2)	Well drained	> 80	Moderately high to high
	Madison sandy clay loam (MdD2)			
Honey Creek WWTP through Project Endpoint	Gwinnett sandy loam (CeB)	Well drained	> 80	Moderately high to high
	Cecil-Urban land complex (CuC)			
	Madison sandy loam (MaB)			

5.0 SUBSURFACE CONDITIONS

The geotechnical exploration program consisted of advancing sixty (60) soil borings with SPTs (B-1 through B-60) along the proposed force main. The SPT borings were drilled to depths of 7 to 30 feet below ground surface (bgs). Table 2 presents a summary of information for SPT borings. The boring locations are shown on Figure 2(a-e), and boring logs are included in Appendix A-3. This section of the report provides a general discussion of subsurface conditions encountered within explored areas of the project site. More-detailed descriptions of the subsurface conditions at the individual test locations are presented on the Boring Logs. Strata breaks designated on the boring logs and subsurface profile represent approximate boundaries between soil types. The transition from one soil type to another may be gradual or occur between soil samples.

Most of the borings encountered fill soils to depths of 3 to 13.5 feet below the grade. The fill soils consisted of very loose to dense Sand with varying amounts of gravel, clay and silt, or very soft to stiff Clay or Silt with varying amounts of minor constituents. The standard penetration test resistances (N-values) in the fill soils ranged from 1 to 37 blows per foot (bpf). Borings B-10, B-21, B-34, B-51, B-54, and B-57 to B-59 were terminated in fill.

Typical residual soils of the Piedmont Physiographic Province of Georgia were present below the fill soils or the ground surface in most of the borings to termination depths. The residual soils generally consisted of very loose to dense sand with varying amounts of clay, silt, and gravel, or soft to hard silt with varying amounts of sand and clay. The N-Values in the residual soils ranged between 2 and 32 bpf.

Partially weathered rock (PWR) was encountered in boring B-53 at a depth of 3.5 feet. PWR is a term for the residuum that can be penetrated by soil drilling techniques and has N-values in excess of 100 bpf. The PWR encountered consisted of very dense gravelly sand with some silt.

Auger refusal was encountered in B-10 and B-53, at 7 and 9 feet below ground surface, respectively. Auger refusal levels may represent the top of massive bedrock, a seam of rock, or a boulder.

Groundwater was encountered in borings B-1, and B-58 to B-60 at the end of drilling at depths between 3 and 9 feet-bgs. It should be noted that groundwater levels should be anticipated to fluctuate with the change of seasons, during periods of very low or high precipitation, or due to changes in the floodplain or watershed upstream from the area. The following table summarizes the boring depth, depth to bottom of the fill, depth to bottom of residual soils, groundwater depths, and depth to auger refusal.

Table 2 – Summary of SPT Borings

Boring ID	Station	Boring Depth (feet)	Depth to Bottom of Fill (feet)	Depth to Bottom of Residual Soils (feet)	Depth to Auger Refusal (feet)	Groundwater Depth at the end of drilling (feet)
B-1	202+85±	30	13.5	30	NE	7
B-2	204+30±	10	8.5	10	NE	NE
B-3	209+25±	10	3.5	10	NE	NE
B-4	216+00±	10	8.5	10	NE	NE
B-5	222+65±	10	8.5	10	NE	NE
B-6	229+40±	10	8.5	10	NE	NE
B-7	235+65±	10	8.5	10	NE	NE
B-8	243+15±	10	8.5	10	NE	NE
B-9	249+50±	10	3.5	10	NE	NE
B-10	255+35±	7	7	NE	7	NE
B-11	262+10±	10	8.5	10	NE	NE
B-12	269+40±	10	8.5	10	NE	NE
B-13	274+00±	10	8.5	10	NE	NE
B-14	279+25±	10	8.5	10	NE	NE
B-15	283+80±	10	3.5	10	NE	NE
B-16	289+55±	10	3.5	10	NE	NE
B-17	298+40±	10	3.5	10	NE	NE
B-18	305+45±	10	3.5	10	NE	NE
B-19	309+95±	10	NE	10	NE	NE
B-20	315+45±	10	NE	10	NE	NE
B-21	321+80±	10	10	NE	NE	NE

Boring ID	Station	Boring Depth (feet)	Depth to Bottom of Fill (feet)	Depth to Bottom of Residual Soils (feet)	Depth to Auger Refusal (feet)	Groundwater Depth at the end of drilling (feet)
B-22	326+90±	10	3.5	10	NE	NE
B-23	334+90±	10	8.5	10	NE	NE
B-24	339+90±	10	NE	10	NE	NE
B-25	346+20±	10	NE	10	NE	NE
B-26	522+20±	10	NE	10	NE	NE
B-27	528+35±	10	3.5	10	NE	NE
B-28	532+65±	10	3.5	10	NE	NE
B-29	539+10±	10	3.5	10	NE	NE
B-30	547+45±	10	3.5	10	NE	NE
B-31	553+35±	10	3.5	10	NE	NE
B-32	558+35±	10	3.5	10	NE	NE
B-33	565+25±	10	NE	10	NE	NE
B-34	572+15±	10	10	NE	NE	NE
B-35	578+00±	10	3.5	10	NE	NE
B-36	584+20±	10	8.5	10	NE	NE
B-37	591+30±	10	8.5	10	NE	NE
B-38	595+50±	10	NE	10	NE	NE
B-39	601+25±	10	8.5	10	NE	NE
B-40	607+50±	10	8.5	10	NE	NE
B-41	615+00±	10	3.5	10	NE	NE
B-42	621+75±	10	3.5	10	NE	NE
B-43	627+00±	10	3.5	10	NE	NE

Boring ID	Station	Boring Depth (feet)	Depth to Bottom of Fill (feet)	Depth to Bottom of Residual Soils (feet)	Depth to Auger Refusal (feet)	Groundwater Depth at the end of drilling (feet)
B-44	633+50±	10	NE	10	NE	NE
B-45	641+00±	10	8.5	10	NE	NE
B-46	646+25±	10	8.5	10	NE	NE
B-47	653+50±	10	3.5	10	NE	NE
B-48	658+00±	10	8.5	10	NE	NE
B-49	663+50±	10	NE	10	NE	NE
B-50	670+00±	10	3.5	10	NE	NE
B-51	676+00±	10	10	NE	NE	NE
B-52	681+70±	10	3.5	10	NE	NE
B-53	687+50±	9	NE	NE (PWR from 3.5 to 9)	9	NE
B-54	692+50±	10	10	NE	NE	NE
B-55	695+90±	10	NE	10	NE	NE
B-56	697+75±	10	NE	10	NE	NE
B-57	352+90±	10	10	NE	NE	NE
B-58	358+85±	10	10	NE	NE	4
B-59	364+30±	10	10	NE	NE	9
B-60	371+10±	30	8.5	30	NE	3

NE: Not Encountered

6.0 LABORATORY TESTING PROGRAM

A geotechnical laboratory testing program was carried out for this Project. The geotechnical laboratory testing completed for this project included the following:

- Twenty-six (26) Particle size Distribution/Hydrometer Tests (ASTM D2487; ASTM D421; ASTM D422);
- Twenty-six (26) Atterberg Limits Tests (ASTM D4318);
- Twenty-six (26) Moisture Content Tests (ASTM D2216);

Twenty (20) soil as well as four (4) water corrosivity series tests (pH, Resistivity, Sulfate, and Chloride) were also conducted on samples. The results of these tests are tabulated below in Tables 3 and 4 while the complete report is included in Appendix B-5. A summary of the laboratory test results, and raw lab test results are included in Appendix B.

Table 3 – Soil Corrosivity Test Results

Boring	Depth (ft.)	Soil pH (S.U.)	Soil Resistivity (ohm-cm)	Chloride (mg/kg - PPM)	Sulfate (mg/kg-PPM)
B-1	8.5-10	5.13	36,200	BRL	20
B-3	3.5-5	5.37	34,400	BRL	17
B-5	3.5-5	5.23	21,200	16	14
B-8	3.5-5	5.51	41,400	BRL	23
B-13	3.5-5	7.31	7,600	BRL	140
B-16	3.5-5	4.98	11,500	12	BRL
B-18	3.5-5	5.83	9,470	BRL	17
B-21	3.5-5	5.34	15,300	BRL	32
B-25	3.5-5	5.38	26,200	14	16
B-28	3.5-5	5.84	27,700	BRL	34
B-32	3.5-5	5.41	16,500	BRL	27
B-36	3.5-5	5.75	19,500	BRL	20
B-39	3.5-5	5.40	20,900	BRL	36

Boring	Depth (ft.)	Soil pH (S.U.)	Soil Resistivity (ohm-cm)	Chloride (mg/kg - PPM)	Sulfate (mg/kg-PPM)
B-43	3.5-5	5.76	35,900	BRL	13
B-47	3.5-5	5.44	34,800	14	BRL
B-51	3.5-5	5.99	5,420	BRL	61
B-53	0-1.5	5.75	29,400	BRL	15
B-55	3.5-5	5.75	12,200	BRL	37
B-57	3.5-5	5.26	14,100	BRL	26
B-60	8.5-10	4.62	9,230	BRL	45

PPM: Parts per Million

BRL: Below Reporting Limit

Table 4 – Water Corrosivity Test Results

Sample ID / Location	Water pH (S.U.)	Water Resistivity (ohm-cm)	Chloride (mg/L)	Sulfate (mg/L)
W-1 Stream near B-1	6.04	14,900	4.63	2.70
W-3 Stream near B-1	6.47	1,820	23.6	117
W-4 Stream near B-57	6.91	13,600	5.26	2.67
W-6 Stream near B-57	6.86	13,700	5.24	2.42

7.0 DISCUSSION AND RECOMMENDATIONS

The following recommendations are based on our understanding of the proposed construction, the data obtained in the soil test borings, a site reconnaissance, and our experience with subsurface conditions similar to those encountered at the project site.

We recommend that United Consulting be provided with updated documents early in the preparation of final construction drawings to determine if our recommendations are still valid or should be re-evaluated and revised.

7.1 Difficult Excavation

Auger refusal was encountered in two (2) borings B-10 and B-53 at depth of 7 and 9 feet, respectively, along the proposed force main. Based on our boring data, Partially Weathered Rock (PWR) was encountered only in B-53 at a depth of 3.5 feet. Difficult excavation conditions (blasting for trench/utility excavations) associated with PWR or Rock will be encountered in the vicinity of borings B-10 and B-53 if excavations are extended deeper than 7 and 3 feet, respectively.

It is also important to note that depths to PWR and rock can vary over short horizontal distances in the Piedmont geologic area, and PWR and rock could be encountered during construction at shallower depths between and outside the boring locations for this study.

PWR typically requires loosening by ripping with large dozers pulling single tooth rippers in mass excavation. The use of specialized excavation equipment (such as ram-hoes, jackhammers, or possibly blasting) is typically required for PWR excavation in confined (trench) excavations. Relatively sound, massive, rock typically requires blasting for removal in mass or trench excavation.

Excavation techniques will vary based on the weathering of the materials, fracturing, and jointing in the rock, and the overall stratigraphy of the feature. Actual field conditions usually display a gradual weathering progression with poorly defined and uneven boundaries between layers of different materials. We recommend that the following definitions for rock in earthwork excavation be included in bid documents:

1. General Excavation: Any material occupying an original volume of more than 1 cubic yard which cannot be excavated with a single-tooth ripper drawn by a crawler tractor having a minimum draw bar pull rating of not less than 80,000 lbs. usable pull (Caterpillar D-8 or larger).
2. Trench Excavation: Any material occupying an original volume of more than 1/2 cubic yard which cannot be excavated with a backhoe having a bucket curling force rated at not less than 40,000 lbs., using a rock bucket and rock teeth (John Deere 790 or larger).

Removal of rock by blasting can be expensive. The costs of excavation vary with the type of material encountered and the quantities to be excavated. Hence, control of quantities is important. You may consider independent recording of the blasting contractors air track drilling in order to have independent verification of quantities. We will be happy to assist if requested by you with this undertaking.

7.2 Blasting Vibration and Overpressure Limits

Ground vibration and air overpressure during blasting should be kept at safe and comfortable levels. Levels need to take account of local conditions and the type of work and nearby structure that could be impacted. The limits of perception of ground vibration are much lower than those that could cause cosmetic damage. United Consulting recommends the following maximum vibration peak particle velocity (PPV) and frequency to limit cosmetic and structural damage:

Table 5 – Blasting Peak Particle Velocity (PPV) and Frequency Limits (USBM)⁽¹⁾

Frequency (Hz)	Peak Particle Velocity (PPV) (in/sec)
COSMETIC DAMAGE	
1 – 2.5	0.18 – 0.5
2.5 - 10	0.5
10 - 35	0.5 - 2
> 35	2
Frequency (Hz)	Peak Particle Velocity (PPV) (in/sec)
STRUCTURAL DAMAGE	
1 – 4	0.18 – 0.8
4 - 10	0.8
10 - 25	0.8 - 2
> 25	2
Notes:	
1) US Bureau of Mines (USBM) suggested values.	
2) Range of values provided above increase linearly in a log scale.	

We recommend that a pre-blasting survey of nearby buildings and residential homes be performed prior to any blasting activities, so pre-existing cracking or structural damage conditions are documented. If the PPV values provided in Table 5 are not exceeded, threshold cracking in homes can be prevented. In addition, blasting air overpressure should not exceed 120 to 130 dB to minimize complaints by the nearby residents, however this levels still could cause some window vibrations. Finally, blasting of exposed rock or rock with shallow soil cover should be covered with blasting mats to prevent flying rock.

7.3 Caving Considerations

All excavations should be conducted in accordance with the Occupational Safety and Health Administration (OSHA) guidelines. Flattening of the excavation sidewalls and/or the use of bracing may be needed to maintain stability during construction.

7.4 Groundwater Considerations

Groundwater was encountered in borings B-1, and B-58 through B-60 at the end of drilling at depths between 3 and 9 feet-bgs. Therefore, dewatering will be required during pipeline installation activities at these locations (Scott and Honey Creek Wastewater Treatment Plants) if the proposed pipe invert elevations are below the groundwater level.

Also, due to presence of layers of clay and silt and up to 13 feet of fill, the site is susceptible to formation of perched water. The contractor should be prepared to handle perched or groundwater, as needed. If ground or perched water is encountered, the contractor should be prepared to lower the water to depths of at least 3 feet below the bottom of the excavation throughout construction.

Management of groundwater during construction can likely be accomplished using perimeter and interior interconnected trenches gravity drained to appropriate outfalls. Where gravity drainage may not be possible, collected water would need to be routed to sumps and pumped for discharge. Considering the groundwater levels are likely indicative of perched water, permanent control of groundwater may not be needed. However, the need for localized or more comprehensive permanent control of groundwater will need to be further evaluated based on conditions at the time of construction.

7.5 Temporary Shoring

Care should be exercised during construction within or adjacent to the existing roads. For shallow open-excavation, we recommend temporary appropriate shoring to maintain stability of slope, underground utilities, and roadways. For deep excavations such those at the lift station, construction of excavation bracing may be required to maintain stability of the surrounded area. For an excavation bracing system design, we recommend a constant earth pressure equal to $0.80K_a\gamma H$, where K_a is the co-efficient of active earth pressure, γ is the unit weight of in-situ soil, and H is the depth of the excavation. Based on our experience with similar soils and field data, we recommend the following Table 6 summarizing the ultimate equivalent fluid pressures to be used in preliminary design for in-situ soils for temporary excavation bracing design.

Table 6 - Summary of Ultimate Equivalent Fluid Pressures (Excavation Bracing)

Pressure Conditions	Co-efficient of Earth Pressures	Ultimate Equivalent Fluid Pressure
Active (K_a)	0.36	40 psf/ft
At-rest (K_o)	0.53	58 psf/ft
Passive (K_p)	2.8	308 psf/ft

These ultimate equivalent fluid pressures were calculated by the Rankine method using an estimated in-situ soil unit weight of 110 pcf, an average in-situ angle of internal friction of 28 degrees, and zero effective cohesion. The long-term cohesion strength parameter has not been utilized in the determination of the earth pressures. Generally, for this soil type, most of the long-term cohesive strength is lost as a result of exposure and disturbance during excavation. We can design reinforced earth retaining walls, sheet pile walls or excavation bracing, if needed. Design and construction of wet wells should consider uplift pressures and buoyancy effects when the structure is constructed below the groundwater table.

7.6 Earthwork

The onsite soils, if free of organic and other deleterious materials, should generally be suitable for reuse as engineered fill with proper moisture control. Partially weathered rock (PWR), if encountered, can be used as engineered fill if it breaks up sufficiently to meet gradation requirements. PWR can also be mixed with soil to meet gradation requirements.

Due to the presence of high silt contents, some of the onsite soil may be sensitive to moisture variation. During rainy seasons, these soils may be difficult to dry. As a practical consideration during extended periods of wet weather, wet onsite soils may need to be discarded and replaced with drier soils. These soils should be placed within a narrow range of their optimum moisture content (typically within about 3 percent of optimum moisture) to achieve proper compaction. Typical restrictions on suitable fill are no organics, plasticity index less than 25, and maximum particle size of four inches, with not more than 30 percent greater than 3/4-inch. These restrictions should also be applied to imported borrow soils if needed.

Positive drainage should be maintained at all times to prevent saturation of exposed soils in case of sudden rains. Rolling the surface of disturbed soils will also improve runoff and reduce the soil moisture and construction delays. The degree of soil stability problems will also be dependent upon the precautions taken by the contractor to help protect the soils from saturation during construction.

Moisture-density determinations should be performed for each soil type used, to provide data necessary for quality assurance testing. Soil moisture contents at the time of compaction in pipe trenches and around manholes should be adjusted so that they are within moisture content limits that will allow the required compaction to be obtained.

7.7 Fill Placement

Moisture-density determinations should be performed for each soil type used to provide data necessary for quality assurance testing. The natural moisture content at the time of compaction should be within moisture content limits, which will allow the required compaction to be obtained. This is generally within three percentage points of the optimum moisture. The contractor should be prepared to increase or decrease soil water content as needed to achieve the required degrees of compaction.

The fill should be placed in thin lifts (not to exceed 8-inch loose thickness) and compacted. We recommend the fill be compacted to at least 98 percent of Standard Proctor (ASTM D 698) maximum dry density within top two feet below pavement areas and at least 95 percent of Standard Proctor maximum dry density elsewhere on the site. For trench backfill, walk-behind type compaction equipment is typically used for compaction, so we recommend placing fill in thin lifts not to exceed 4 inches, especially within roadways and pavement areas.

A Geotechnical Engineer on a full-time basis should observe grading operations. In-place density tests taken by that individual will assess the degree of compaction being obtained. The frequency of the testing should be determined by the Geotechnical Engineer.

8.0 LIMITATIONS

This report is for the exclusive use of **Rockdale County Water Resources** and the designers of the project described herein, and may only be applied to this specific project. Our conclusions and recommendations have been prepared using generally accepted standards of Geotechnical Engineering practice in the State of Georgia. No other warranty is expressed or implied. Our firm is not responsible for conclusions, opinions or recommendations of others.

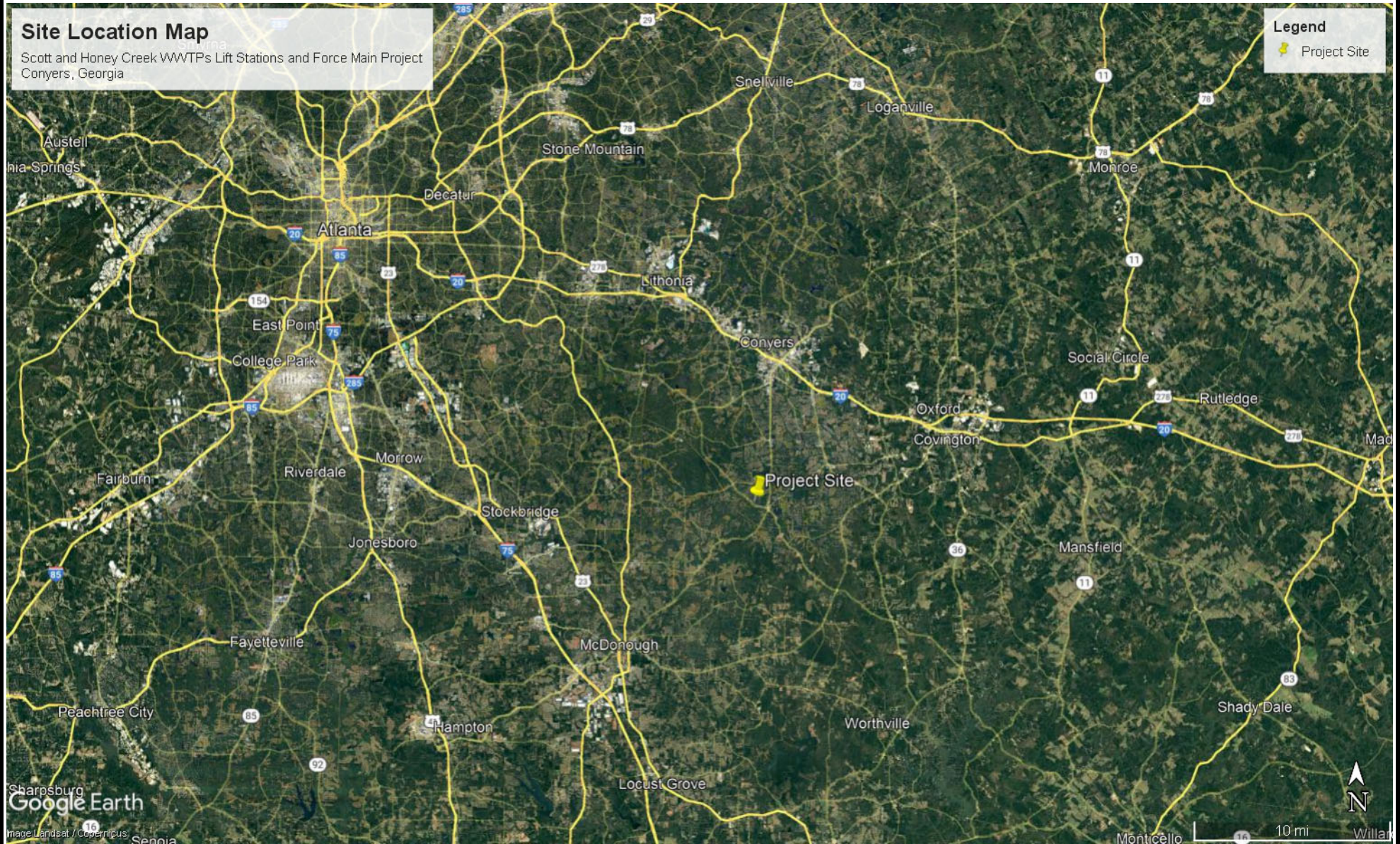
The right to rely upon this report and the data within may not be assigned without UNITED CONSULTING'S written permission.

The scope of this evaluation was limited to evaluation of the load carrying capability, depth to rock, PWR, groundwater, and quality of subsoil. Oil, hazardous waste, radioactivity, irritants, pollutants, molds, or other dangerous substance and conditions were not the subject of this study. Their presence and/or absence are not implied or suggested by this report, and should not be inferred.

Our conclusions and recommendations are based upon design information furnished us, data obtained from the previously described exploration and testing program and our past experience. They do not reflect variations in subsurface conditions that may exist intermediate of our borings and in unexplored areas of the site. Should such variations become apparent during construction, it will be necessary to re-evaluate our conclusions and recommendations based upon "on-site" observations of the conditions.

If the design or location of the project is changed, the recommendations contained herein must be considered invalid, unless the changes are reviewed by our firm, and our recommendations are either verified or modified in writing. When design is complete, we should be given the opportunity to review the foundation plan, grading plan, and applicable portions of the specifications to see if they are

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 <i>We're here for you</i> UNITED CONSULTING		Scale:	NTS	Notes	Client:	Rockdale County Water Resources	FIG. 1
		Prepared:	MZ		Site:	Scott and Honey Creek WWTPs Conyers, GA	
		Checked:	MM				
		Project No.:	ROCKW-21-GA-05766-01		Title:	Site Location Plan	

Boring Location Plan (B-1 through B-12)

Scott & Honey Creek WWTPs
Conyers, Rockdale County, GA

Legend

● Boring Location



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Checked:	MM
Project No.:	ROCKW-21-GA-05766-01

Notes

Client:

Rockdale County Water Resources

Site:

Scott & Honey Creek WWTPs
Conyers, GA

Title:

Boring Location Plan

FIG. 2(a)

Boring Location Plan (B-13 through B-24)

Scott & Honey Creek WWTPs
Conyers, Rockdale County, GA

Legend
● Boring Location



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Prepared:	MZ
Checked:	MM
Project No.:	ROCKW-21-GA-05766-01

Notes

Client:	Rockdale County Water Resources
Site:	Scott & Honey Creek WWTPs Conyers, GA
Title:	Boring Location Plan

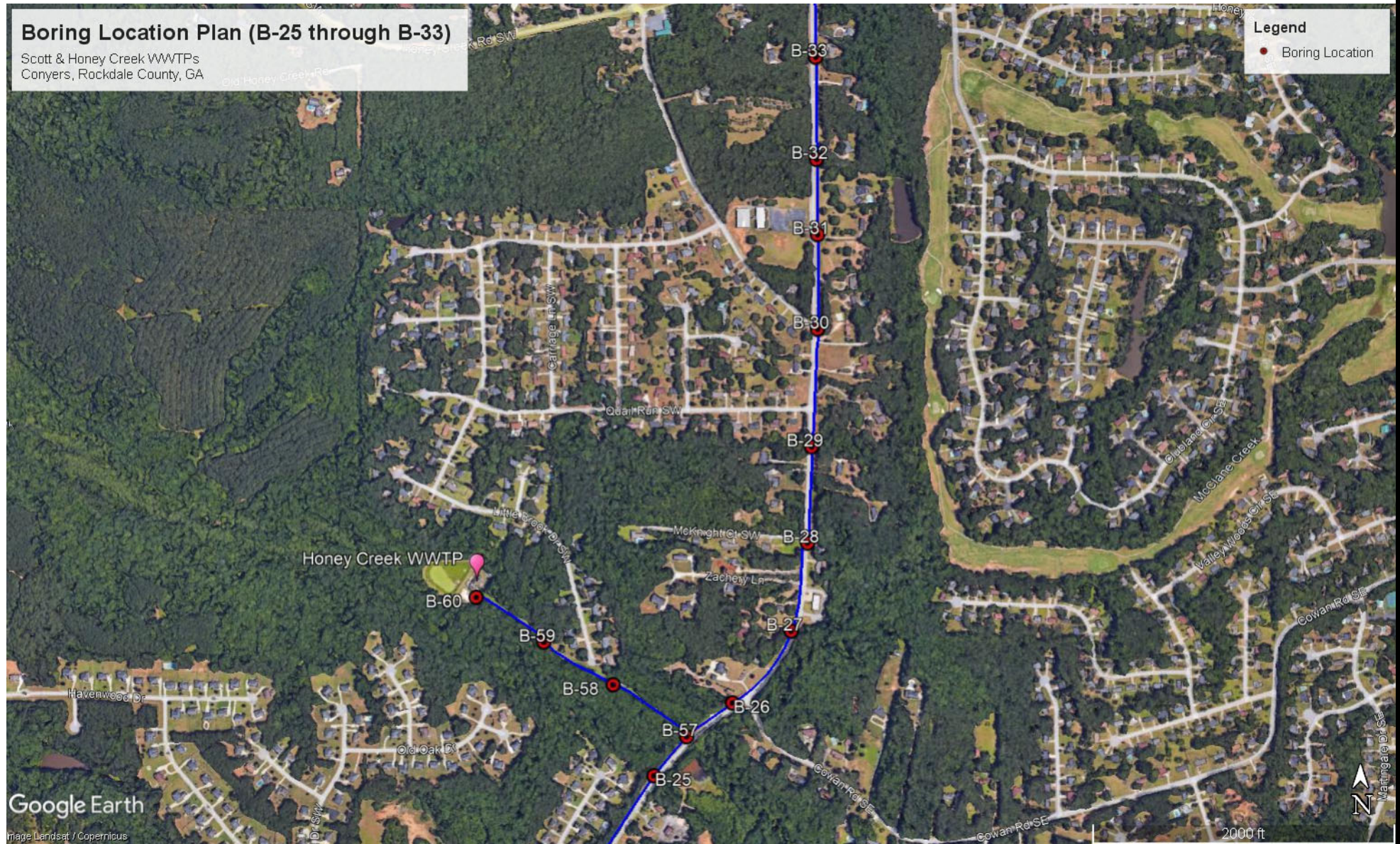
FIG. 2(b)

Boring Location Plan (B-25 through B-33)

Scott & Honey Creek WWTPs
Conyers, Rockdale County, GA

Legend

● Boring Location



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Notes

Client:

Rockdale County Water Resources

Site:

Scott & Honey Creek WWTPs
Conyers, GA

Title:

Boring Location Plan

FIG. 2(c)

C

Boring Location Plan (B-34 through B-47)

Scott & Honey Creek WWTPs
Conyers, Rockdale County, GA



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Notes

Client:

Rockdale County Water Resources

Site:

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Conyers, GA

Title:

Boring Location Plan

FIG. 2(d)

Boring Location Plan (B-48 through End)

Scott & Honey Creek WWTPs
Conyers, Rockdale County, GA

Legend

● Boring Location



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Project No.:	ROCKW-21-GA-05766-01

Notes

Client:

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Site:

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Conyers, GA

Title:

Boring Location Plan

FIG. 2(e)

APPENDIX A – Boring Logs

A-1 – General Notes / Narrative of Drilling Operations (2)

A-2 – Exploration Procedures (1)

3 – SPT Boring Logs (60)

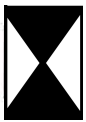


GENERAL NOTES

The soil classifications noted on the Boring Logs are visual classifications unless otherwise noted. Minor constituents of a soil sample are termed as follows:

Trace	0 - 10%
Some	11 - 35%
Suffix "y" or "ey"	36 - 49%

LEGEND



Split Spoon Sample obtained during Standard Penetration Testing



Relatively Undisturbed Shelby Tube Sample



Groundwater Level at Time of Boring Completion



Groundwater Level at 24 hours (or as noted) after Termination of Boring

w Natural Moisture Content

LL Liquid Limit

PL Plastic Limit Atterberg Limits

PI Plasticity Index

PF Percent Fines (Percent Passing #200 Sieve)

γ_d Dry Unit Weight (Pounds per Cubic Foot or PCF)

γ_m Moist or In-Situ Unit Weight (PCF)

γ_{sat} Saturated Unit Weight (PCF)

BORING LOG DATA NARRATIVE OF DRILLING OPERATION

The test borings were made by mechanically advancing helical hollow stem augers into the ground. Samples were collected at regular intervals in each of the borings following established procedures for performing the Standard Penetration Test in accordance with ASTM Specification D 1586. Soil samples were obtained with a standard 1.4" I.D. x 2.0" O.D. split barrel sampler. The sampler is first seated 6" to penetrate any loose cuttings and then driven an additional foot with the blows required of a 140-pound hammer freely falling a distance of 30 inches. The number of blows required to drive the sampler the final foot is designated the "standard penetration resistance." The driving resistance, known as the "N" value, can be correlated with the relative density of granular soils and the consistency of cohesive deposits.

The following table describes soil consistency and relative densities based on standard penetration resistance values (N) determined by the Standard Penetration Test (SPT).

	<u>"N"</u>	<u>Consistency</u>	<u>Undrained Shear</u>
			<u>Strength,</u> <u>S_u (ksf)</u>
Clay and Silt	0-2	Very Soft	< 0.25
	3-4	Soft	0.25 - 0.5
	5-8	Firm	0.5 - 1
	9-15	Stiff	1 - 2
	16-30	Very Stiff	2 - 4
	Over 31	Hard	> 4
Sand	<u>"N"</u>	<u>Relative Density</u>	
	0-4	Very Loose	
	5-10	Loose	
	11-19	Firm	
	20-29	Medium Dense	
	30-49	Dense	
	50+	Very Dense	

EXPLORATION PROCEDURES

Sixty (60) Standard Penetration Test (SPT) borings were completed during this subsurface exploration. The approximate locations of the borings are shown on the attached Boring Location Plan (Fig. 2a-e). The SPT borings were drilled to depths of 7 to 30 feet and were performed in general accordance with ASTM D1586. Soil samples obtained using the split spoon sampler were visually evaluated by the field geotechnical engineer/geologist and classified according to the visual manual procedure described in ASTM D2488. A narrative of field operations is included in Appendix A.

The boring locations were initially determined in the field by our field geotechnical engineer/geologist using a handheld GPS unit with +/- 3 ft. horizontal accuracy. Profile and plan were provided by Rockdale County Water Resources in November 2021. Boring locations and ground surface elevations should be considered approximate.

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BORING NUMBER B-1

PAGE 1 OF 1

CLIENT	Rockdale County Water Resources	PROJECT NAME	Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER	ROCKW-21-GA-05766-01	PROJECT LOCATION	Conyers, GA
DATE STARTED	1/10/2022	DATE COMPLETED	1/10/2022
DRILLING CONTRACTOR	Dodd Drilling	GROUND ELEVATION	663 ft
DRILLING METHOD	Hollow Stem Auger	HOLE SIZE	6 inches
STATION	202+85	LOGGED BY	DS
NOTES	MDI B57 Automatic Hammer with 99% Efficiency		
		GROUND WATER LEVELS:	
		▽ AT TIME OF DRILLING	7.00 ft / Elev 656.00 ft
		▽ AT END OF DRILLING	7.00 ft / Elev 656.00 ft
		▽ AFTER DRILLING	7.00 ft / Elev 656.00 ft

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	660		Sand-silty, some clay, trace gravel and mica; very loose; brown-red (fill) (SM)	SPT 1	100	3-2-2 (4)							
5			- some silt	SPT 2	78	1-1-2 (3)			26.0	42	30	12	
	655												
10				SPT 3	67	1-1-1 (2)							
	650												
15			Silt-some sand, trace clay, micaceous; firm; brown-tan (residual)	SPT 4	100	2-4-4 (8)							
	645												
20			- sandy; stiff; brown-white	SPT 5	72	7-5-6 (11)							
	640												
25			- firm; brown-tan	SPT 6	100	3-3-4 (7)							
	635												
30				SPT 7	100	3-4-4 (8)							

Boring terminated at 30.0 feet.

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BORING NUMBER B-2

PAGE 1 OF 1

CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/10/2022 **DATE COMPLETED** 1/10/2022 **GROUND ELEVATION** 666 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 204+30 **LOGGED BY** DS **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	665		Sand-silty, some clay, trace mica; loose; red-brown (fill)	SPT 1	72	3-2-3 (5)							
5	660			SPT 2	44	2-3-3 (6)							
10			Sand-some silt and clay, trace mica; loose; brown (residual)	SPT 3	67	2-2-3 (5)							

Boring terminated at 10.0 feet.

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BORING NUMBER B-3

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CLIENT <u>Rockdale County Water Resources</u>	PROJECT NAME <u>Scott & Honey Creek WWTPs LS & FM</u>
PROJECT NUMBER <u>ROCKW-21-GA-05766-01</u>	PROJECT LOCATION <u>Conyers, GA</u>
DATE STARTED <u>1/10/2022</u> DATE COMPLETED <u>1/10/2022</u>	GROUND ELEVATION <u>N/A</u> HOLE SIZE <u>6 inches</u>
DRILLING CONTRACTOR <u>Dodd Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>--- Not Encountered</u>
STATION <u>209+25</u> LOGGED BY <u>DS</u>	AT END OF DRILLING <u>--- Not Encountered</u>
NOTES <u>MDI B57 Automatic Hammer with 99% Efficiency</u>	AFTER DRILLING <u>--- Not Encountered</u>

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
			Sand-silty, trace clay and mica; firm; red-brown (fill)	SPT 1	67	3-6-7 (13)							3" Asphalt 4"Base
5			Sand-silty, trace clay, micaceous; firm; brown-white (residual)	SPT 2	89	4-5-8 (13)							
10				SPT 3	78	5-8-8 (16)							

Boring terminated at 10.0 feet.

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PAGE 1 OF 1

CLIENT <u>Rockdale County Water Resources</u>	PROJECT NAME <u>Scott & Honey Creek WWTPs LS & FM</u>
PROJECT NUMBER <u>ROCKW-21-GA-05766-01</u>	PROJECT LOCATION <u>Conyers, GA</u>
DATE STARTED <u>1/10/2022</u> DATE COMPLETED <u>1/10/2022</u>	GROUND ELEVATION <u>722 ft</u> HOLE SIZE <u>6 inches</u>
DRILLING CONTRACTOR <u>Dodd Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>--- Not Encountered</u>
STATION <u>216+00</u> LOGGED BY <u>DS</u>	AT END OF DRILLING <u>--- Not Encountered</u>
NOTES <u>MDI B57 Automatic Hammer with 99% Efficiency</u>	AFTER DRILLING <u>--- Not Encountered</u>

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
720			Sand-some silt and clay, trace gravel and mica; firm; red-brown (fill) (SM)	SPT 1	78	4-4-8 (12)							4" Asphalt 4"Base
5				SPT 2	89	2-2-9 (11)			19.6	49	34	15	
715													
10			Sand-silty, trace clay, micaceous; loose; brown/black (residual)	SPT 3	56	3-5-5 (10)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/10/2022 **DATE COMPLETED** 1/10/2022 **GROUND ELEVATION** 736 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 222+65 **LOGGED BY** DS **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	735		Sand-clayey, some silt and mica; firm; red (fill)	SPT 1	100	3-6-8 (14)							6" Asphalt 5"Base
5	730		-some clay; loose; red-brown	SPT 2	89	5-4-5 (9)							
10			Sand-silty, trace clay, micaceous; medium dense; brown-white (residual)	SPT 3	100	5-10-12 (22)							

Boring terminated at 10.0 feet.

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BORING NUMBER B-6

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/10/2022 **DATE COMPLETED** 1/10/2022 **GROUND ELEVATION** N/A **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 229+40 **LOGGED BY** DS **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Sand-silty, trace clay, some mica; firm; brown (fill) (SM)	SPT 1	83	4-5-7 (12)							6" Asphalt 5"Base
5			- some silt and clay, trace gravel; firm; red-brown	SPT 2	100	4-5-8 (13)			21.2	60	43	17	
10			Sand-silty, trace clay, some mica; firm; brown-white (residual)	SPT 3	89	4-6-10 (16)							

Boring terminated at 10.0 feet.

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BORING NUMBER B-7

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CLIENT <u>Rockdale County Water Resources</u>	PROJECT NAME <u>Scott & Honey Creek WWTPs LS & FM</u>
PROJECT NUMBER <u>ROCKW-21-GA-05766-01</u>	PROJECT LOCATION <u>Conyers, GA</u>
DATE STARTED <u>1/10/2022</u> DATE COMPLETED <u>1/10/2022</u>	GROUND ELEVATION <u>750 ft</u> HOLE SIZE <u>6 inches</u>
DRILLING CONTRACTOR <u>Dodd Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>--- Not Encountered</u>
STATION <u>235+65</u> LOGGED BY <u>DS</u>	AT END OF DRILLING <u>--- Not Encountered</u>
NOTES <u>MDI B57 Automatic Hammer with 99% Efficiency</u>	AFTER DRILLING <u>--- Not Encountered</u>

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	750												
			Sand-silty, trace clay and mica; loose; brown (fill)	SPT 1	100	4-5-5 (10)							
5	745			SPT 2	89	3-4-4 (8)							
10	740		Sand-silty, trace clay, some mica; loose; brown-black/tan (residual)	SPT 3	100	3-3-5 (8)							

Boring terminated at 10.0 feet.

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BORING NUMBER B-8

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/10/2022 **DATE COMPLETED** 1/10/2022 **GROUND ELEVATION** 777 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 243+15 **LOGGED BY** DS **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	775		Sand-some silt and clay, trace mica; firm; red-brown (fill) (SM)	SPT 1	56	3-8-9 (17)			17.5	46	31	15	
5				SPT 2	89	2-5-6 (11)							
	770												
10			Sand-silty, trace clay, some mica; dense; tan (residual)	SPT 3	67	8-15-17 (32)							

Boring terminated at 10.0 feet.

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BORING NUMBER B-9

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/10/2022 **DATE COMPLETED** 1/10/2022 **GROUND ELEVATION** 773 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 249+50 **LOGGED BY** DS **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	770		Sand-clayey, some silt, trace mica; loose; red-brown (fill)	SPT 1	67	3-4-4 (8)							
5			Sand-silty, trace clay, gravel and mica; loose; brown-white (residual)	SPT 2	44	3-3-4 (7)							
	765												
10				SPT 3	56	3-3-6 (9)							

Boring terminated at 10.0 feet.

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BORING NUMBER B-10

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/10/2022 **DATE COMPLETED** 1/10/2022 **GROUND ELEVATION** 786 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 255+35 **LOGGED BY** DS **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	785		Sand-silty, trace clay, gravel and mica; firm; red-brown (fill) (SM)	SPT 1	100	3-6-7 (13)							
5			- some silt and clay	SPT 2	100	2-4-15 (19)			21.7	39	35	4	
	780												Hard Drilling at 6'

Refusal at 7.0 feet.
Boring terminated at 7.0 feet.

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CLIENT <u>Rockdale County Water Resources</u>	PROJECT NAME <u>Scott & Honey Creek WWTPs LS & FM</u>
PROJECT NUMBER <u>ROCKW-21-GA-05766-01</u>	PROJECT LOCATION <u>Conyers, GA</u>
DATE STARTED <u>1/10/2022</u> DATE COMPLETED <u>1/10/2022</u>	GROUND ELEVATION <u>799 ft</u> HOLE SIZE <u>6 inches</u>
DRILLING CONTRACTOR <u>Dodd Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>--- Not Encountered</u>
STATION <u>262+10</u> LOGGED BY <u>DS</u>	AT END OF DRILLING <u>--- Not Encountered</u>
NOTES <u>MDI B57 Automatic Hammer with 99% Efficiency</u>	AFTER DRILLING <u>--- Not Encountered</u>

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Sand-silty, trace clay, some mica; firm; red-brown (fill)	SPT 1	78	3-5-6 (11)							
5	795		- loose	SPT 2	78	2-3-5 (8)							
10	790		Sand-silty, trace clay, some mica; firm; brown-white (residual)	SPT 3	100	3-5-7 (12)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/10/2022 **DATE COMPLETED** 1/10/2022 **GROUND ELEVATION** 792 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 269+40 **LOGGED BY** DS **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	790		Sand-silty, trace clay and mica; firm; red-brown (fill)	SPT 1	100	5-5-6 (11)							2" Asphalt
5				SPT 2	100	5-5-7 (12)							
	785												
10			Sand-silty, trace clay and mica; firm; brown-white (residual)	SPT 3	100	4-5-10 (15)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/11/2022 **DATE COMPLETED** 1/11/2022 **GROUND ELEVATION** 774 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 274+00 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
			Sand-clayey, trace silt and mica; firm; red-brown (fill)	SPT 1	100	3-5-7 (12)							3" Asphalt 3" Base
5	770		- silty, trace clay; loose	SPT 2	78	13-4-6 (10)							
10	765		Sand-silty, trace clay, gravel and mica; loose; brown (residual)	SPT 3	100	3-3-6 (9)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/11/2022 **DATE COMPLETED** 1/11/2022 **GROUND ELEVATION** 774 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 279+25 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Sand-some silt and clay, trace gravel and mica; dense; dark brown (fill) (SC)	SPT 1	100	8-12-25 (37)			15.8	39	21	18	3" Asphalt 5" Base
5	770		- silty, trace clay and mica; firm; red-brown	SPT 2	89	15-6-8 (14)							
10	765		Sand-silty, some clay, trace mica; firm; brown (residual)	SPT 3	89	7-5-6 (11)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/11/2022 **DATE COMPLETED** 1/11/2022 **GROUND ELEVATION** 782 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 283+80 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	780		Sand-silty, trace clay and mica; firm; red-brown (fill)	SPT 1	100	3-7-10 (17)							3" Asphalt 8" Base
5			Sand-silty, trace clay, micaceous; firm; brown (residual)	SPT 2	78	4-7-8 (15)							
	775												
10			- sandy	SPT 3	100	3-3-4 (7)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/11/2022 **DATE COMPLETED** 1/11/2022 **GROUND ELEVATION** 794 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 289+55 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
			Sand-silty, trace clay and mica; loose; red-brown (fill)	SPT 1	89	8-5-5 (10)							5" Asphalt 8" Base
5	790		Sand-some silt, trace clay, micaceous; firm; brown (residual)	SPT 2	89	2-3-3 (6)							
10	785		- silty; medium dense	SPT 3	56	2-10-11 (21)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/11/2022 **DATE COMPLETED** 1/11/2022 **GROUND ELEVATION** 790 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 298+40 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	790												
			Sand-silty, trace clay and gravel, some mica; loose; brown-red (fill)	SPT 1	100	3-3-5 (8)							2" Asphalt 6" Base
5	785		Silt-sandy, clayey, trace mica; firm; brown/gray (residual) (MH)	SPT 2	100	5-7-9 (16)			23.8	60	34	26	
10	780		Sand-silty, trace clay; loose; brown-black	SPT 3	100	2-3-3 (6)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/11/2022 **DATE COMPLETED** 1/11/2022 **GROUND ELEVATION** 823 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 305+45 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	820		Sand-silty, some clay, trace mica; firm; brown-red (fill)	SPT 1	100	4-5-6 (11)							
5			Sand-silty, trace clay and mica; firm; brown (residual)	SPT 2	100	5-8-9 (17)							
	815												
10			- micaceous; loose; brown-black	SPT 3	44	3-4-4 (8)							

Boring terminated at 10.0 feet.

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CLIENT <u>Rockdale County Water Resources</u>	PROJECT NAME <u>Scott & Honey Creek WWTPs LS & FM</u>
PROJECT NUMBER <u>ROCKW-21-GA-05766-01</u>	PROJECT LOCATION <u>Conyers, GA</u>
DATE STARTED <u>1/11/2022</u> DATE COMPLETED <u>1/11/2022</u>	GROUND ELEVATION <u>N/A</u> HOLE SIZE <u>6 inches</u>
DRILLING CONTRACTOR <u>Dodd Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>--- Not Encountered</u>
STATION <u>309+95</u> LOGGED BY <u>MR</u>	AT END OF DRILLING <u>--- Not Encountered</u>
NOTES <u>MDI B57 Automatic Hammer with 99% Efficiency</u>	AFTER DRILLING <u>--- Not Encountered</u>

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Sand-silty, trace clay and gravel, micaceous; loose; brown-white (residual)	SPT 1	100	4-4-6 (10)							3" Asphalt 5" Base
5			- firm	SPT 2	44	4-6-5 (11)							
10			- loose	SPT 3	67	3-3-4 (7)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/11/2022 **DATE COMPLETED** 1/11/2022 **GROUND ELEVATION** 784 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 315+45 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Sand-some silt and clay, trace gravel and mica; firm; light brown-tan (residual) (SM)	SPT 1	78	9-8-7 (15)			9.7	30	24	6	5" Asphalt 3" Base
5	780		- loose; brown-black	SPT 2	89	3-3-4 (7)							
10	775		- stiff	SPT 3	100	5-7-8 (15)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/11/2022 **DATE COMPLETED** 1/11/2022 **GROUND ELEVATION** 763 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 321+80 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	760		Sand-silty, some clay, trace gravel and mica; loose; red-brown (fill)	SPT 1	89	6-5-5 (10)							4" Asphalt 4" Base
5			- some silt, trace clay	SPT 2	89	6-5-5 (10)							
	755												
10			- silty	SPT 3	100	2-3-3 (6)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/11/2022 **DATE COMPLETED** 1/11/2022 **GROUND ELEVATION** 772 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 326+90 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	770		Sand-silty, trace clay and mica; firm; brown-red (fill)	SPT 1	89	3-5-7 (12)							
5			Sand-some silt and clay, trace gravel and mica; loose; brown-tan (residual) (SM)	SPT 2	78	3-4-5 (9)			20.8	43	35	8	
	765												
10			Silt-sandy, trace clay and mica; firm; brown	SPT 3	78	3-4-4 (8)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/11/2022 **DATE COMPLETED** 1/11/2022 **GROUND ELEVATION** 744 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 334+90 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
			Sand-clayey, some silt, trace mica; loose; brown-red (fill) (SC)	SPT 1	67	3-3-5 (8)							8" Asphalt 5" Base
5	740		Sand-silty, some clay, trace mica; firm; red-brown	SPT 2	100	2-3-6 (9)							
10	735		Silt-sandy, trace clay, micaceous; hard; brown-white (residual)	SPT 3	78	8-15-17 (32)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/11/2022 **DATE COMPLETED** 1/11/2022 **GROUND ELEVATION** N/A **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 339+90 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Silt-sandy, trace clay and gravel, some mica; stiff; brown-tan (residual)	SPT 1	100	4-5-6 (11)							5" Asphalt 5" Base
5			Sand-some silt, trace clay and gravel, some mica; firm; dark brown (SM)	SPT 2	56	3-4-4 (8)			12.1	NP	NP	NP	
10				SPT 3	78	3-3-5 (8)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/11/2022 **DATE COMPLETED** 1/11/2022 **GROUND ELEVATION** 674 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 346+20 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Sand-silty, trace clay, some mica; loose; brown (residual)	SPT 1	100	4-4-6 (10)							4" Asphalt 5" Base
5	670		- firm; brown-gray	SPT 2	100	4-5-6 (11)							
10	665			SPT 3	100	3-5-8 (13)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 668 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 522+20 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Sand-silty, trace clay, some mica; firm; brown (residual)	SPT 1	100	4-5-7 (12)							3" Asphalt 5" Base
5	665		- trace gravel, micaceous; loose; brown-white	SPT 2	100	6-4-4 (8)							
10	660			SPT 3	100	3-4-4 (8)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 678 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 528+35 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	675		Sand-silty, trace clay, gravel and mica; firm; brown-red (fill)	SPT 1	89	2-5-6 (11)							
5			Sand-some silt, clay and mica; loose; light brown-tan (residual) (SM)	SPT 2	100	3-4-5 (9)			28.0	64	45	19	
	670												
10			Silt-sandy, trace clay and gravel, micaceous; soft; brown-white	SPT 3	100	2-1-3 (4)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 685 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 532+65 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	685												
			Sand-silty, trace clay, gravel and mica; very loose; brown-red (fill)	SPT 1	89	1-1-0 (1)							
5	680		Sand-some silt, clay and mica; very loose; brown-black (residual)	SPT 2	100	0-0-2 (2)							
10	675		- silty, trace clay and gravel, some mica; very loose	SPT 3	6	1-2-1 (3)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 701 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 539+10 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	700		Sand-silty, trace clay, some mica; very loose; red-brown (fill)	SPT 1	100	1-1-1 (2)							
5	695		Sand-silty, trace clay, some mica; loose; brown-black (residual)	SPT 2	100	2-2-2 (4)							
10			Silt-sandy, trace clay and gravel, micaceous; firm; brown-black-white	SPT 3	100	2-3-4 (7)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 722 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 547+45 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	720		Sand-silty, some clay and mica; loose; red-brown (fill)	SPT 1	100	3-4-4 (8)							
5			Sand-some silt and clay, trace gravel, micaceous; firm; brown (residual) (SM)	SPT 2	100	3-3-5 (8)			25.5	51	46	5	
	715												
10			Silt-sandy, trace clay and gravel, micaceous; firm; brown-black	SPT 3	100	2-3-4 (7)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 733 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 553+35 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	730		Sand-silty, some clay, trace mica; loose; red-brown (fill)	SPT 1	100	3-4-4 (8)							
5			Sand-silty, trace clay, micaceous; firm; brown (residual)	SPT 2	100	3-5-6 (11)							
	725												
10			- loose	SPT 3	100	3-3-5 (8)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 739 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 558+35 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
			Sand-silty, trace clay, gravel and mica; very loose; brown (fill)	SPT 1	33	1-0-1 (1)							
5	735		Sand-some silt and clay, trace gravel and mica; loose; tan-brown (residual)	SPT 2	89	0-3-2 (5)							
10	730		- silty, micaceous; firm	SPT 3	100	3-4-8 (12)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 746 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 565+25 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	745		Sand-some silt and clay, micaceous; loose; brown-black (residual) (SM)	SPT 1	89	2-2-3 (5)			21.6	47	28	19	
5	740		- some mica	SPT 2	100	2-2-3 (5)							
10			- trace clay; brown-white	SPT 3	100	3-4-5 (9)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 749 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 572+15 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Sand-silty, some clay, trace mica; loose; brown-red (fill)	SPT 1	100	3-3-4 (7)							
5	745		- firm	SPT 2	100	3-5-7 (12)							
10	740		Silt-sandy, trace clay and gravel, micaceous; firm; brown-red	SPT 3	100	3-3-4 (7)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 772 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 578+00 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	770		Sand-silty, some clay, micaceous; very loose; brown-red (fill)	SPT 1	100	1-1-1 (2)							
5			Sand-some silt and clay, trace gravel, micaceous; stiff; brown-gray (residual) (SM)	SPT 2	100	7-4-5 (9)			20.3	54	41	13	
	765												
10			Silt-sandy, trace clay and gravel, micaceous; firm; brown-black/white	SPT 3	100	3-4-4 (8)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 776 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 584+20 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	775		Sand-silty, trace clay and mica; very loose; brown-red (fill)	SPT 1	100	2-1-1 (2)							5" Asphalt 1" Base
5			Silt-some sand, clay and mica, trace gravel; loose; red-brown	SPT 2	100	2-2-3 (5)							
	770												
10			Silt-sandy, trace clay, micaceous; firm; brown (residual)	SPT 3	100	2-2-3 (5)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 755 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 591+30 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	755												
			Sand-silty, some clay, trace mica; firm; brown-red (fill)	SPT 1	100	4-7-8 (15)							6" Asphalt No Base
5	750		Silt-clayey, some sand; stiff; red-brown (MH)	SPT 2	100	6-4-6 (10)			29.4	70	41	29	
10	745		Silt-sandy, trace clay, micaceous; firm; brown-gray (residual)	SPT 3	67	2-3-2 (5)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 764 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 595+50 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Silt-sandy, trace clay, micaceous; firm; brown-white/gray (residual)	SPT 1	100	6-4-5 (9)							4" Asphalt 2" Base
5	760		Sand-silty, trace clay, micaceous; loose; brown-white	SPT 2	100	2-3-3 (6)							
10	755		Silt-sandy, trace clay, micaceous; firm; brown-white/gray	SPT 3	78	3-4-4 (8)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 766 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 601+25 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	765		Sand-silty, some clay; loose; brown (fill)	SPT 1	100	1-2-1 (3)							
5	760		- some silt; brown-red	SPT 2	100	3-4-4 (8)							
10			Silt-sandy, trace clay and gravel, micaceous; firm; brown-white (residual)	SPT 3	100	2-3-3 (6)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 773 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 607+50 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Silt-clayey, sandy; firm; red-brown (fill) (MH)	SPT 1	100	3-3-4 (7)			31.1	62	38	24	
5	770		- stiff	SPT 2	100	3-5-6 (11)							
10	765		Silt-sandy, trace clay, micaceous; firm; brown-white (residual)	SPT 3	100	3-3-5 (8)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 792 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 615+00 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	790		Sand-silty, trace clay and mica; loose; brown-red (fill)	SPT 1	100	4-4-6 (10)							6" Asphalt No Base
5			Sand-silty, trace clay, micaceous; firm; brown-black (residual)	SPT 2	100	4-7-7 (14)							
	785												
10			Silt-sandy, trace clay, micaceous; firm; brown-black	SPT 3	100	3-3-4 (7)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 794 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 621+75 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
			Sand-silty, trace clay, some mica; loose; red-brown (fill)	SPT 1	100	4-4-6 (10)							6" Asphalt No Base
5	790		Sand-some clay trace silt and gravel, micaceous; firm; brown-white (residual) (SM)	SPT 2	100	5-7-9 (16)			19.7	58	37	21	
10	785		Silt-sandy, trace clay, micaceous; stiff; gray-brown	SPT 3	100	3-5-7 (12)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/13/2022 **DATE COMPLETED** 1/13/2022 **GROUND ELEVATION** 794 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 627+00 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
			Sand-silty, trace clay, some mica; loose; red-brown (fill)	SPT 1	100	4-5-5 (10)							
5	790		Sand-silty, trace clay, micaceous; loose; brown (residual)	SPT 2	100	1-2-5 (7)							
10	785		- brown-gray	SPT 3	100	3-3-4 (7)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/13/2022 **DATE COMPLETED** 1/13/2022 **GROUND ELEVATION** 803 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 633+50 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Sand-silty, trace clay and mica; very loose; red-brown (residual) (SM)	SPT 1	78	0-0-3 (3)							
5	800		- some clay and silt, trace gravel, micaceous; firm; brown/gray	SPT 2	100	3-7-8 (15)			20.6	63	45	18	
10	795		Silt-sandy, trace clay and gravel, micaceous; stiff; brown-white	SPT 3	100	7-4-5 (9)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/13/2022 **DATE COMPLETED** 1/13/2022 **GROUND ELEVATION** 792 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 641+00 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	790		Sand-silty, some clay, trace mica; loose; brown-red (fill)	SPT 1	100	3-2-3 (5)							
5			- trace clay, some mica	SPT 2	100	3-4-6 (10)							
	785												
10			Silt-sandy, trace clay, micaceous; stiff; brown-black (residual)	SPT 3	100	3-4-5 (9)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/13/2022 **DATE COMPLETED** 1/13/2022 **GROUND ELEVATION** 798 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 646+25 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	795		Sand-silty, some clay, trace mica; firm; red-brown (fill)	SPT 1	78	4-6-7 (13)							
5			Silt-sandy, some clay; stiff; red-brown (MH)	SPT 2	100	4-5-6 (11)			26.5	54	41	13	
	790												
10			Silt-sandy, trace clay, micaceous; firm; brown (residual)	SPT 3	100	2-3-4 (7)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/13/2022 **DATE COMPLETED** 1/13/2022 **GROUND ELEVATION** 804 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 653+50 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
			Sand-silty, trace clay and mica; firm; brown-red (fill)	SPT 1	100	6-5-6 (11)							5" Asphalt No Base
5	800		Silt-sandy, trace clay, some mica; loose; brown-black (residual)	SPT 2	100	3-5-5 (10)							
10	795		- firm; brown-gray	SPT 3	100	1-4-4 (8)							

Boring terminated at 10.0 feet.

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CLIENT <u>Rockdale County Water Resources</u>	PROJECT NAME <u>Scott & Honey Creek WWTPs LS & FM</u>
PROJECT NUMBER <u>ROCKW-21-GA-05766-01</u>	PROJECT LOCATION <u>Conyers, GA</u>
DATE STARTED <u>1/13/2022</u> DATE COMPLETED <u>1/13/2022</u>	GROUND ELEVATION <u>802 ft</u> HOLE SIZE <u>6 inches</u>
DRILLING CONTRACTOR <u>Dodd Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>--- Not Encountered</u>
STATION <u>658+00</u> LOGGED BY <u>MR</u>	AT END OF DRILLING <u>--- Not Encountered</u>
NOTES <u>MDI B57 Automatic Hammer with 99% Efficiency</u>	AFTER DRILLING <u>--- Not Encountered</u>

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	800		Clay-sandy, some silt, trace gravel and mica; firm; brown-red (fill) (CL)	SPT 1	100	3-1-4 (5)			18.8	45	26	19	
5			- silty, trace sand	SPT 2	100	2-2-3 (5)							
	795												
10			Silt-sandy, trace clay, micaceous; firm; brown-gray/white (residual)	SPT 3	100	2-3-3 (6)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/13/2022 **DATE COMPLETED** 1/13/2022 **GROUND ELEVATION** 801 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 663+50 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	800		Sand-silty, trace clay and gravel; loose; brown-red (residual)	SPT 1	100	4-4-6 (10)							3" Asphalt No Base
5	795			SPT 2	100	3-5-5 (10)							
10			Silt-sandy, trace clay, micaceous; stiff; brown-white/black	SPT 3	100	5-5-5 (10)							

Boring terminated at 10.0 feet.

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BORING NUMBER B-50

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/13/2022 **DATE COMPLETED** 1/13/2022 **GROUND ELEVATION** 792 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 670+00 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	790		Sand-silty, trace clay and mica; firm; brown-red (fill)	SPT 1	100	4-6-8 (14)							2" Asphalt No Base
5			Silt-sandy, some clay and mica; stiff; light tan (residual) (MH)	SPT 2	100	3-5-5 (10)			24.3	51	41	10	
	785												
10				SPT 3	100	4-4-4 (8)							

Boring terminated at 10.0 feet.

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CLIENT <u>Rockdale County Water Resources</u>	PROJECT NAME <u>Scott & Honey Creek WWTPs LS & FM</u>
PROJECT NUMBER <u>ROCKW-21-GA-05766-01</u>	PROJECT LOCATION <u>Conyers, GA</u>
DATE STARTED <u>1/13/2022</u> DATE COMPLETED <u>1/13/2022</u>	GROUND ELEVATION <u>772 ft</u> HOLE SIZE <u>6 inches</u>
DRILLING CONTRACTOR <u>Dodd Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>--- Not Encountered</u>
STATION <u>676+00</u> LOGGED BY <u>MR</u>	AT END OF DRILLING <u>--- Not Encountered</u>
NOTES <u>MDI B57 Automatic Hammer with 99% Efficiency</u>	AFTER DRILLING <u>--- Not Encountered</u>

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	770		Sand-silty, some clay, trace gravel and mica; loose; brown-red (fill)	SPT 1	67	2-3-4 (7)							
5			- very loose	SPT 2	67	1-1-1 (2)							
	765												
10			- loose	SPT 3	100	2-3-6 (9)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/13/2022 **DATE COMPLETED** 1/13/2022 **GROUND ELEVATION** 783 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 681+70 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	780		Sand-silty, trace clay, some mica; firm; brown-red (fill)	SPT 1	100	5-5-6 (11)							4" Asphalt 2" Base
5			Sand-some clay and silt, trace gravel; loose; brown-gray (residual) (SM)	SPT 2	100	3-4-5 (9)			18.7	55	40	15	
	775												
10			- firm	SPT 3	100	3-4-4 (8)							

Boring terminated at 10.0 feet.

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CLIENT <u>Rockdale County Water Resources</u>	PROJECT NAME <u>Scott & Honey Creek WWTPs LS & FM</u>
PROJECT NUMBER <u>ROCKW-21-GA-05766-01</u>	PROJECT LOCATION <u>Conyers, GA</u>
DATE STARTED <u>1/13/2022</u> DATE COMPLETED <u>1/13/2022</u>	GROUND ELEVATION <u>783 ft</u> HOLE SIZE <u>6 inches</u>
DRILLING CONTRACTOR <u>Dodd Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>--- Not Encountered</u>
STATION <u>687+50</u> LOGGED BY <u>MR</u>	AT END OF DRILLING <u>--- Not Encountered</u>
NOTES <u>MDI B57 Automatic Hammer with 99% Efficiency</u>	AFTER DRILLING <u>--- Not Encountered</u>

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	780		Sand-silty, trace clay and gravel; some mica; firm; brown-black (residual)	SPT 1	67	5-10-14 (24)							Offset 15' towards B-52
5			Partially Weathered Rock (PWR), sampled as Sand-gravelly, some silt, trace clay and mica; very dense; brown/gray	SPT 2	100	50/3"							
	775												

Refusal at 9.0 feet.
Boring terminated at 9.0 feet.

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BORING NUMBER B-54

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/13/2022 **DATE COMPLETED** 1/13/2022 **GROUND ELEVATION** 746 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 692+50 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	745		Clay-sandy, some silt, trace gravel and mica; soft; brown-red (fill) (CL)	SPT 1	100	1-1-2 (3)			22.7	42	25	17	
5			- silty, some mica; firm	SPT 2	89	2-2-3 (5)							
	740												
10				SPT 3	100	2-3-3 (6)							

Boring terminated at 10.0 feet.

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BORING NUMBER B-55

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CLIENT <u>Rockdale County Water Resources</u>	PROJECT NAME <u>Scott & Honey Creek WWTPs LS & FM</u>
PROJECT NUMBER <u>ROCKW-21-GA-05766-01</u>	PROJECT LOCATION <u>Conyers, GA</u>
DATE STARTED <u>1/13/2022</u> DATE COMPLETED <u>1/13/2022</u>	GROUND ELEVATION <u>734 ft</u> HOLE SIZE <u>6 inches</u>
DRILLING CONTRACTOR <u>Dodd Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>--- Not Encountered</u>
STATION <u>695+90</u> LOGGED BY <u>MR</u>	AT END OF DRILLING <u>--- Not Encountered</u>
NOTES <u>MDI B57 Automatic Hammer with 99% Efficiency</u>	AFTER DRILLING <u>--- Not Encountered</u>

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Sand-silty, some clay, trace gravel; loose; brown-gray (residual)	SPT 1	89	2-4-5 (9)							
5	730		- some silt, trace clay and mica	SPT 2	78	2-3-3 (6)							
10	725		- silty, some clay, trace gravel and mica; firm; brown-gray/black	SPT 3	100	3-6-8 (14)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/13/2022 **DATE COMPLETED** 1/13/2022 **GROUND ELEVATION** 730 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** --- Not Encountered
STATION 697+75 **LOGGED BY** MR **AT END OF DRILLING** --- Not Encountered
NOTES MDI B57 Automatic Hammer with 99% Efficiency **AFTER DRILLING** --- Not Encountered

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	730		Sand-silty, some clay, trace gravel; loose; brown-gray (residual) - some silt, trace mica; grey	 SPT 1	67	3-5-5 (10)							4" Asphalt 12" Base; 50/1, No Recovery; Tunnel; Waterway.
5	725			 SPT 2	78	3-3-3 (6)							
10	720			 SPT 3	100	3-5-9 (14)							

Boring terminated at 10.0 feet.

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BORING NUMBER B-57

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CLIENT <u>Rockdale County Water Resources</u>	PROJECT NAME <u>Scott & Honey Creek WWTPs LS & FM</u>
PROJECT NUMBER <u>ROCKW-21-GA-05766-01</u>	PROJECT LOCATION <u>Conyers, GA</u>
DATE STARTED <u>1/11/2022</u> DATE COMPLETED <u>1/11/2022</u>	GROUND ELEVATION <u>663 ft</u> HOLE SIZE <u>6 inches</u>
DRILLING CONTRACTOR <u>Dodd Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>--- Not Encountered</u>
STATION <u>352+90</u> LOGGED BY <u>MR</u>	AT END OF DRILLING <u>--- Not Encountered</u>
NOTES <u>MDI B57 Automatic Hammer with 99% Efficiency</u>	AFTER DRILLING <u>--- Not Encountered</u>

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Sand-silty, trace clay and mica; very loose; red-brown (fill)	SPT 1	100	2-1-1 (2)							
660			- clayey, some silt	SPT 2	100	1-1-1 (2)							
5			- silty; loose	SPT 3	100	2-2-3 (5)							
655													
10													

Boring terminated at 10.0 feet.

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BORING NUMBER B-58

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 657 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger ☐ **AT TIME OF DRILLING** 4.00 ft / Elev 653.00 ft
STATION 358+85 **LOGGED BY** MR ☒ **AT END OF DRILLING** 4.00 ft / Elev 653.00 ft
NOTES MDI B57 Automatic Hammer with 99% Efficiency ☒ **AFTER DRILLING** 4.00 ft / Elev 653.00 ft

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
	655		Silt-sandy, clayey; very soft; brown-green (fill) (ML)	SPT 1	100	0-1-2 (3)			30.3	45	29	16	
5			☒ Sand-silty, some clay; very loose; brown-red	SPT 2	89	2-4-4 (8)							
	650												
10			Sand-silty, trace clay, gravel and mica; very loose; brown	SPT 3	78	1-1-1 (2)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources **PROJECT NAME** Scott & Honey Creek WWTPs LS & FM
PROJECT NUMBER ROCKW-21-GA-05766-01 **PROJECT LOCATION** Conyers, GA
DATE STARTED 1/12/2022 **DATE COMPLETED** 1/12/2022 **GROUND ELEVATION** 656 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Dodd Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger ☐ **AT TIME OF DRILLING** 9.00 ft / Elev 647.00 ft
STATION 364+30 **LOGGED BY** MR ☒ **AT END OF DRILLING** 9.00 ft / Elev 647.00 ft
NOTES MDI B57 Automatic Hammer with 99% Efficiency ☒ **AFTER DRILLING** 9.00 ft / Elev 647.00 ft

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psi)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	655		Sand-silty, trace clay, gravel and mica; very loose; brown (fill)	SPT 1	67	3-2-1 (3)							
5	650		- silty, some clay	SPT 2	78	0-1-1 (2)							
10			- trace clay	SPT 3	44	0-0-2 (2)							

Boring terminated at 10.0 feet.

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CLIENT Rockdale County Water Resources

PROJECT NAME Scott & Honey Creek WWTPs LS & FM

PROJECT NUMBER ROCKW-21-GA-05766-01

PROJECT LOCATION Conyers, GA

DATE STARTED 1/11/2022

DATE COMPLETED 1/11/2022

GROUND ELEVATION 653 ft

HOLE SIZE 6 inches

DRILLING CONTRACTOR Dodd Drilling

GROUND WATER LEVELS:

DRILLING METHOD Hollow Stem Auger

▽ **AT TIME OF DRILLING** 3.00 ft / Elev 650.00 ft

STATION 371+10

LOGGED BY MR

▽ **AT END OF DRILLING** 3.00 ft / Elev 650.00 ft

NOTES MDI B57 Automatic Hammer with 99% Efficiency

▽ **AFTER DRILLING** 3.00 ft / Elev 650.00 ft

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	UCS ON ROCK (psf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			NOTES
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0													
650			Sand-silty, some clay, trace mica; loose; brown-red (fill) (SM)	SPT 1	100	3-5-4 (9)							
5			- some silt and clay; very loose	SPT 2	100	2-1-0 (1)			33.5	37	29	8	
645													
10			Sand-silty, trace clay, some mica; very loose; gray (residual)	SPT 3	100	0-1-1 (2)							
640													
15			- medium dense	SPT 4	100	7-10-15 (25)							
635													
20			- loose	SPT 5	100	2-3-3 (6)							
630													
25			Silt-sandy, trace clay, micaceous; firm; brown-gray/white	SPT 6	100	3-3-3 (6)							
625													
30			- very stiff	SPT 7	100	6-7-12 (19)							

Boring terminated at 30.0 feet.

APPENDIX B – Laboratory Test Results

B-1 – Laboratory Testing Procedures (2)

B-2 – Summary of Laboratory Test Results (2)

B-3 – Particle Size Distribution Report (26)

B-4 – Liquid and Plastic Limit Tests and Moisture Content Report (3)

B-5 – Soil and Water Corrosivity Series Tests Report (48)

B-6 – Profile and Plan Detailed with Borings (39)



LABORATORY TESTING PROCEDURES

Moisture Content

The moisture content was determined for selected soil samples obtained in the split-barrel sampler. A representative portion of each sample was weighed and then placed in an oven and dried at 110 degrees Centigrade for at least 15 to 16 hours. After removal from the oven, the soil was again weighed. The weight of the moisture lost during drying thus was determined. From this data, the moisture content of the sample was then calculated as the weight of moisture divided by dry weight of soil, expressed as a percentage. This test was conducted according to ASTM D 2216.

Moisture content is a useful index of a soil's compressibility. If the soil is to be used as fill, the moisture content may be compared to the range of water contents for which proper compaction may be achieved. The moisture content results are indicated on the boring logs attached and on the Summary of USCS Tests.

Unified Soil Classification System (USCS)

Soils to be classified as per Unified Soil Classification System (USCS) are generally required to perform grain size analysis (particle size distribution), liquid limit and plasticity index tests when precise classification is required. After performing the required tests, the classification was generally performed in accordance with ASTM D 2487.

Grain Size (Sieve) Analysis with or without Hydrometer

Grain Size Analysis tests were performed to determine the particle size distribution of selected samples tested. The grain size distribution of soils coarser than a number 200 sieve was determined by passing the samples through a standard set of nested sieves. Materials finer than the number 200 sieve was suspended in water and the grain size distribution computed from the time rate of settlement of the different size particles (hydrometer test). Air-dried soil is passed through a #200 sieve, and 50 grams of this soil is then soaked in sodium hexametaphosphate agent for a minimum of 8 hours. Soil is then put in a graduated cylinder with a hydrometer. Readings are taken at specified times. A graph of grain size distribution is then drawn from data. These procedures were performed in accordance with the specifications and were similar to those described by ASTM D 421 and D 422. The data obtained are summarized on the enclosed Summary of USCS Test Data.

Liquid and Plastic Limits (Atterberg Limits)

Liquid Limit and Plastic Limit tests aid in the classification of the soils and provide an indication of the soil behavior with moisture change. The Plasticity Index is calculated by subtracting the Plastic Limit (PL) from the Liquid Limit (LL). The Liquid Limit is the moisture content at which the soil will flow as a heavy viscous fluid and is the upper limit of the plastic range, as determined in accordance with ASTM D 4318. The Plastic Limit is the moisture content at which the soil begins to lose its plasticity, as determined in accordance with ASTM D 4318. The Liquidity Index is the ratio of the difference between the in-place moisture and the plastic limit to the Plasticity Limit. The data obtained are summarized on the enclosed Summary of USCS Test Data.

Soil Corrosivity

The following test methods are utilized to determine soil corrosivity characteristics when they are performed by an analytical laboratory:

Soil Resistivity (@ 100% Moisture Saturation): SW9050A

Laboratory Hydrogen Ion (pH): SW9045D

Ion Scan (Chloride and Sulfate): SW9056A

Water Corrosivity

The following test methods are utilized to determine groundwater/stream water corrosivity characteristics when they are performed by an analytical laboratory:

Water Resistivity (@ 100% Moisture Saturation): SW9050A

Laboratory Hydrogen Ion (pH): SM4500H+B

Ion Scan (Chloride and Sulfate): SW9056A

**Scott and Honey Creek WWTPs Lift Stations and Force Main
SUMMARY OF SOIL DATA**

Sample Identification	Sample Type	Sample Depth (ft.)	Soil Classification (USCS)	As R'ed Moisture %	Atterberg Limits				Grain Size Distribution			Compaction		Gs	Unit Weight		Permeability (cm/sec)	Additional Tests Conducted (See Notes)
									% Finer No. 4	% Finer No. 200	% Finer .005	Maximum Dry Density	Optimum Moisture					
					L.L.	P.L.	P.I.	L.I.	Sieve	Sieve	mm	(lb/cuft)	%		Moisture %	Dry (lb/cuft)		
B-1	Bag	3.5-5	SM	26.0	42	30	12	-0.3	95.0	43.5	27.1	-	-	-	-	-	-	-
B-4	Bag	3.5-5	SM	19.6	49	34	15	-1.0	99.4	40.4	18.9	-	-	-	-	-	-	-
B-6	Bag	3.5-5	SM	21.2	60	43	17	-1.3	99.4	49.2	29.1	-	-	-	-	-	-	-
B-8	Bag	0-1.5	SM	17.5	46	31	15	-0.9	100.0	38.9	24.1	-	-	-	-	-	-	-
B-10	Bag	3.5-5	SM	21.7	39	35	4	-3.3	97.8	36.0	16.7	-	-	-	-	-	-	-
B-14	Bag	0-1.5	SC	15.8	39	21	18	-0.3	96.8	46.5	33.5	-	-	-	-	-	-	-
B-17	Bag	3.5-5	MH	23.8	60	34	26	-0.4	100.0	56.9	42.0	-	-	-	-	-	-	-
B-20	Bag	0-1.5	SM	9.7	30	24	6	-2.4	99.2	29.1	11.1	-	-	-	-	-	-	-
B-22	Bag	3.5-5	SM	20.8	43	35	8	-1.8	98.3	43.4	18.3	-	-	-	-	-	-	-
B-23	Bag	0-1.5	SC	22.8	53	31	22	-0.4	98.3	55.1	41.3	-	-	-	-	-	-	-
B-24	Bag	3.5-5	SM	12.1	NV	NP	NP	NV	99.8	21.2	6.5	-	-	-	-	-	-	-
B-27	Bag	3.5-5	SM	28.0	64	45	19	-0.9	100.0	42.4	26.4	-	-	-	-	-	-	-
B-30	Bag	3.5-5	SM	25.5	51	46	5	-4.1	98.9	35.3	19.1	-	-	-	-	-	-	-
B-33	Bag	0-1.5	SM	21.6	47	28	19	-0.3	100.0	42.8	28.3	-	-	-	-	-	-	-
B-35	Bag	3.5-5	SM	20.3	54	41	13	-1.6	91.3	33.0	16.2	-	-	-	-	-	-	-
B-37	Bag	3.5-5	MH	29.4	70	41	29	-0.4	100.0	68.5	46.3	-	-	-	-	-	-	-
B-40	Bag	0-1.5	MH	31.1	62	38	24	-0.3	100.0	62.2	53.5	-	-	-	-	-	-	-
B-42	Bag	3.5-5	SM	19.7	58	37	21	-0.8	99.7	41.4	31.1	-	-	-	-	-	-	-
B-44	Bag	3.5-5	SM	20.6	63	45	18	-1.4	97.1	35.0	19.3	-	-	-	-	-	-	-
B-46	Bag	3.5-5	MH	26.5	54	41	13	-1.1	100.0	61.2	31.2	-	-	-	-	-	-	-
B-48	Bag	0-1.5	CL	18.8	45	26	19	-0.4	96.0	50.0	28.9	-	-	-	-	-	-	-
B-50	Bag	3.5-5	MH	24.3	51	41	10	-1.7	100.0	54.6	31.0	-	-	-	-	-	-	-
B-52	Bag	3.5-5	SM	18.7	55	40	15	-1.4	92.3	31.9	16.7	-	-	-	-	-	-	-
B-54	Bag	0-1.5	CL	22.7	42	24	17	-0.1	98.8	51.8	32.7	-	-	-	-	-	-	-
B-58	Bag	0-1.5	ML	30.3	45	29	16	0.1	100.0	62.6	37.2	-	-	-	-	-	-	-
B-60	Bag	3.5-5	SM	33.5	37	29	8	0.6	100.0	49.4	26.9	-	-	-	-	-	-	-

**Scott and Honey Creek WWTPs Lift Stations and Force Main
SUMMARY OF SOIL DATA**

Sample Identifier	Sample Type	Sample Depth (ft.)	Soil Classification (USCS)	As R'cd Moisture %	Atterberg Limits				Grain Size Distribution			Compaction		Gs	Unit Weight		Permeability (cm/sec)	Additional Tests Conducted (See Notes)
									% Finer No. 4 Sieve	% Finer No. 200 Sieve	% Finer .005 mm	Maximum Dry Density (lb/cuft)	Optimum Moisture %		Moisture %	Dry (lb/cuft)		
					Borehole Number	L.L.	P.L.	P.I.	L.I.									
B-1	Bag	8.5-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-3	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-5	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-8	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-13	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-16	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-18	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-21	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-25	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-28	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-32	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-36	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-39	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-43	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-47	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-51	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-53	Bag	0-1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-55	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-57	Bag	3.5-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl
B-60	Bag	8.5-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P, R, S, Cl

ABBREVIATIONS: LIQUID LIMIT (LL)
PLASTIC LIMIT (PL)
PLASTICITY INDEX (PI)
LIQUIDITY INDEX (LI)
SPECIFIC GRAVITY (Gs)
MOISTURE (Mc)
NP - NO PLASTICITY
NV - NO VALUE

NOTES: T = TRIAXIAL TEST
U = UNCONFINED COMPRESSION TEST
C = CONSOLIDATION TEST
DS = DIRECT SHEAR TEST
O = ORGANIC CONTENT
P = pH
R = Resistivity
Vc = Volume /shrinkage change
Cl = Chloride
S = Sulfate

Particle Size Distribution Report



GRAIN SIZE - mm.					
% +3"		% Gravel		% Sand	
0.0		5.0		51.5	
				% Silt	
				16.4	
				% Clay	
				27.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	95.0		
#10	90.6		
#20	86.1		
#40	76.7		
#60	63.1		
#140	46.5		
#200	43.5		

Material Description

Sand, some clay and silt, trace gravel, brown

Atterberg Limits

PL= 30 LL= 42 PI= 12

Coefficients

D₉₀= 1.7263 D₈₅= 0.7512 D₆₀= 0.2213
D₅₀= 0.1357 D₃₀= 0.0068 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-7-5(2)

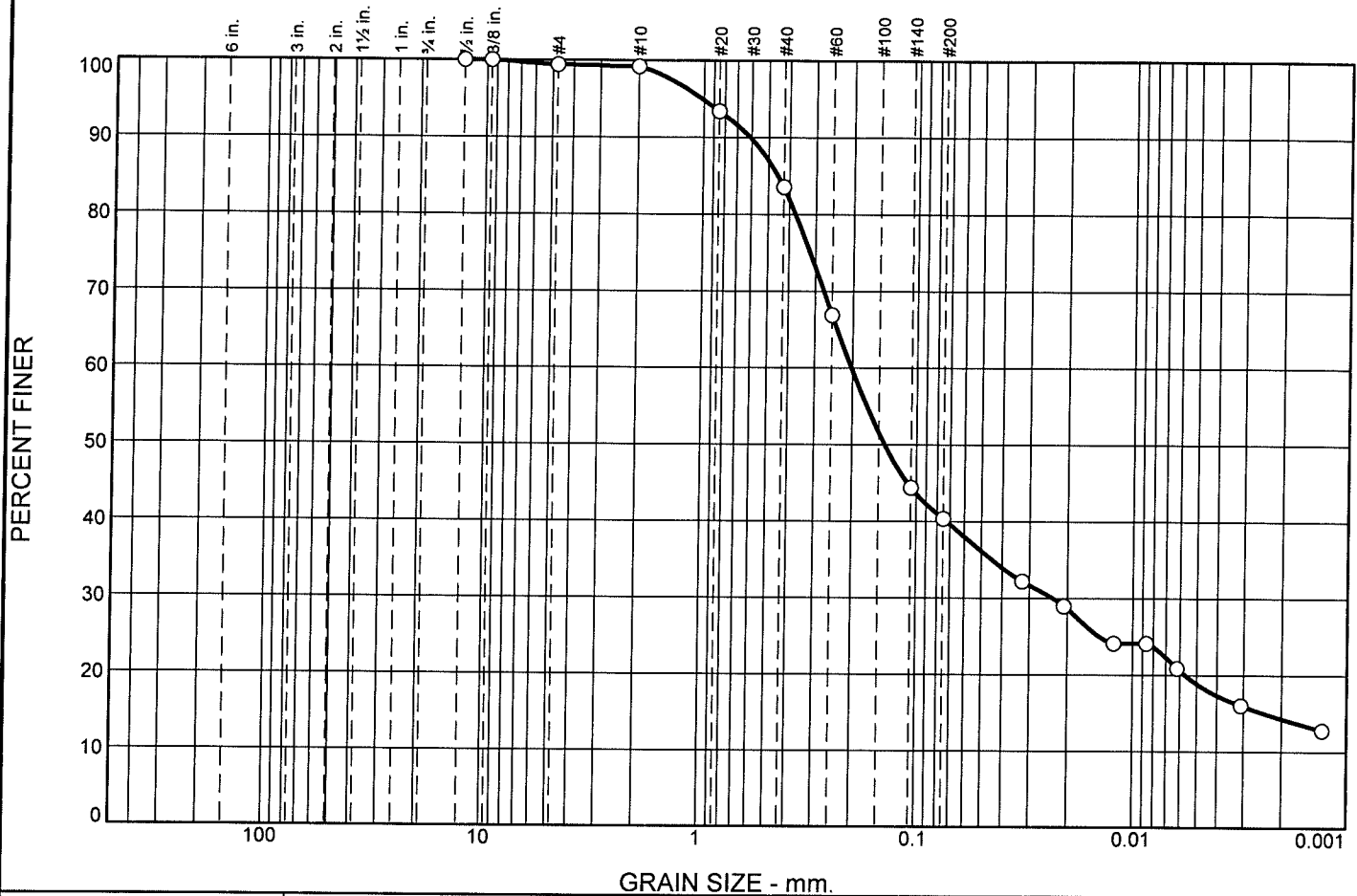
Remarks

* (no specification provided)

Sample Number: B1 Depth: 3.5-5'

Date:

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	0.6	59.0	21.5	18.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	99.4		
#10	99.2		
#20	93.4		
#40	83.5		
#60	66.9		
#140	44.4		
#200	40.4		

* (no specification provided)

Material Description
 Sand, some silt and clay, trace gravel, red brown

Atterberg Limits
 PL= 34 LL= 49 PI= 15

Coefficients
 D₉₀= 0.6102 D₈₅= 0.4530 D₆₀= 0.2020
 D₅₀= 0.1408 D₃₀= 0.0234 D₁₅= 0.0024
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-7-5(2)

Remarks

Sample Number: B4 Depth: 3.5-5'

Date: 1/25/22

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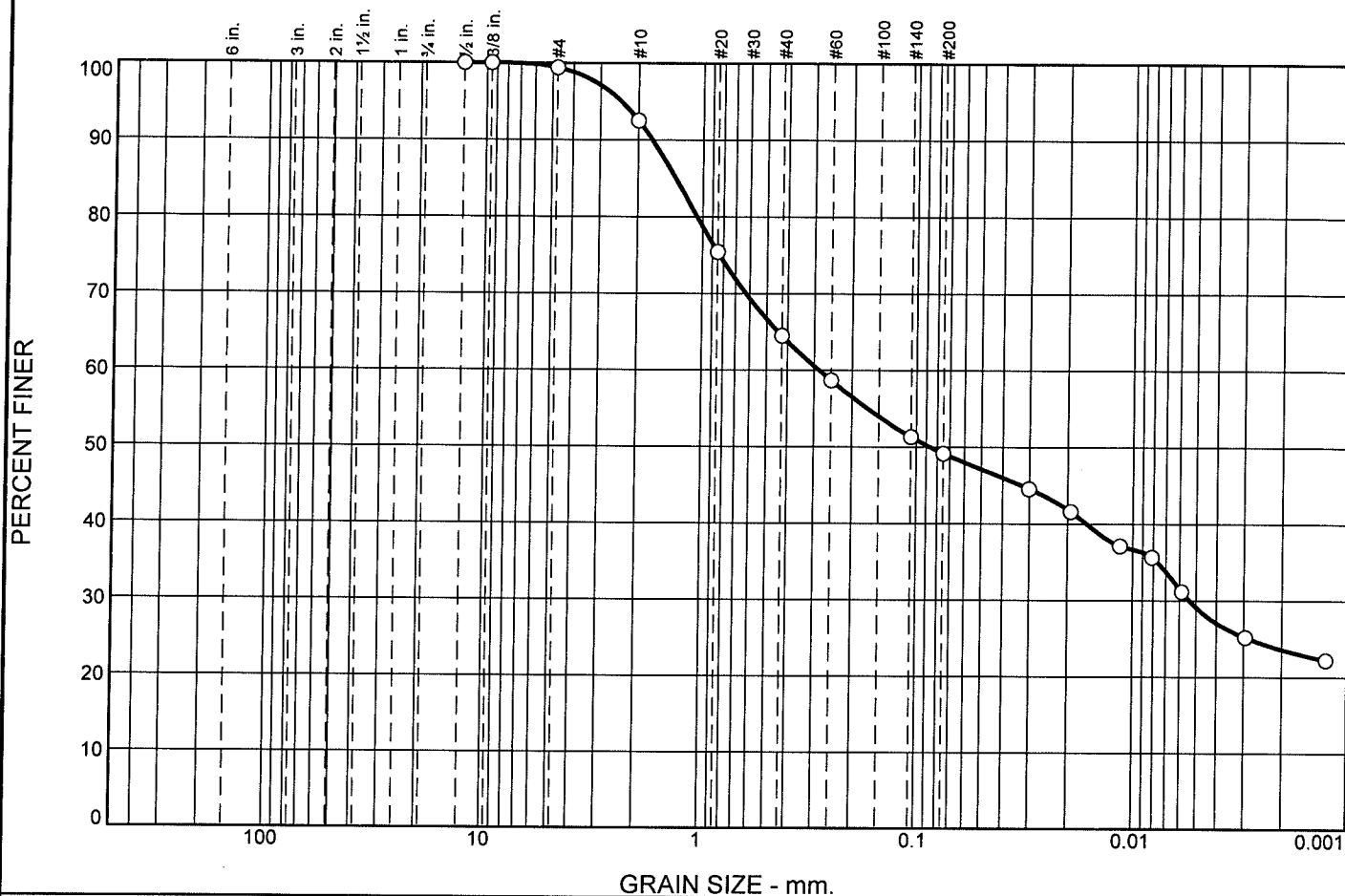
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"

0.0

% Gravel

0.6

% Sand

50.2

% Silt

20.1

% Clay

29.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	99.4		
#10	92.5		
#20	75.4		
#40	64.5		
#60	58.7		
#140	51.3		
#200	49.2		

* (no specification provided)

Material Description

Sand, some clay and silt, trace gravel, red brown

Atterberg Limits

PL= 43

LL= 60

PI= 17

Coefficients

D₉₀= 1.7225

D₈₅= 1.3403

D₆₀= 0.2847

D₅₀= 0.0864

D₃₀= 0.0054

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= SM

AASHTO= A-7-5(7)

Remarks

Sample Number: B6

Depth: 3.5-5'

Date: 1/25/22

United Consulting

Norcross, Georgia

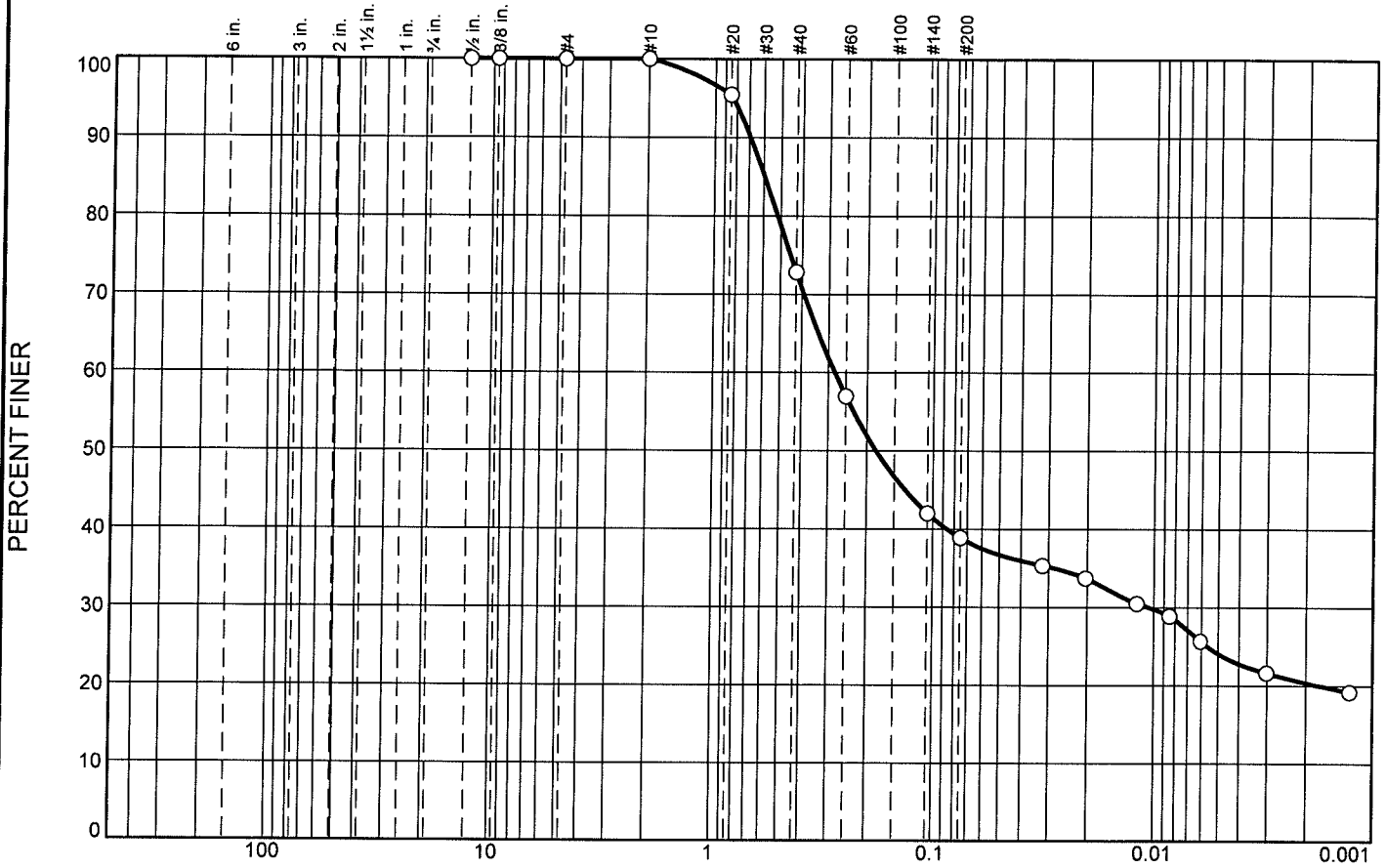
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"

0.0

% Gravel

0.0

% Sand

61.1

% Silt

14.8

% Clay

24.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	100.0		
#10	100.0		
#20	95.5		
#40	72.8		
#60	57.0		
#140	42.0		
#200	38.9		

* (no specification provided)

Material Description

Sand, some clay and silt, red brown

Atterberg Limits

PL= 31

LL= 46

PI= 15

Coefficients

D₉₀= 0.6918

D₈₅= 0.5953

D₆₀= 0.2810

D₅₀= 0.1815

D₃₀= 0.0106

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= SM

AASHTO= A-7-5(2)

Remarks

Sample Number: B8

Depth: 0-1.5'

Date: 1/25/22

United Consulting

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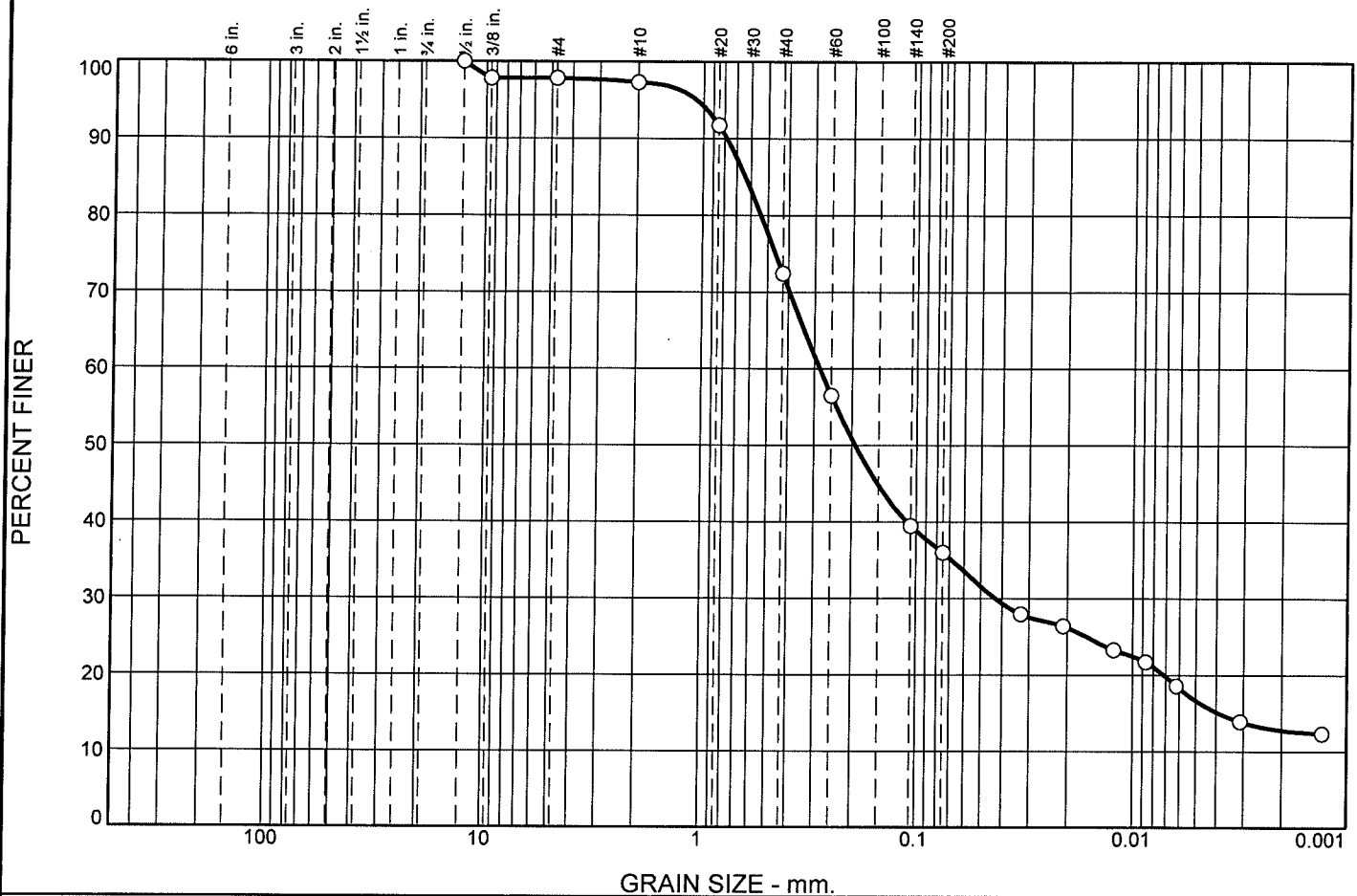
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	2.2	61.8	19.3	16.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	97.8		
#4	97.8		
#10	97.3		
#20	91.7		
#40	72.4		
#60	56.5		
#140	39.5		
#200	36.0		

* (no specification provided)

Material Description

Sand, some silt and clay, trace gravel, red brown

Atterberg Limits

PL= 35

LL= 39

PI= 4

Coefficients

D₉₀= 0.7801

D₈₅= 0.6391

D₆₀= 0.2833

D₅₀= 0.1926

D₃₀= 0.0429

D₁₅= 0.0039

D₁₀=

C_u=

C_c=

Classification

USCS= SM

AASHTO= A-4(0)

Remarks

Sample Number: B10

Depth: 3.5-5'

Date: 1/25/22

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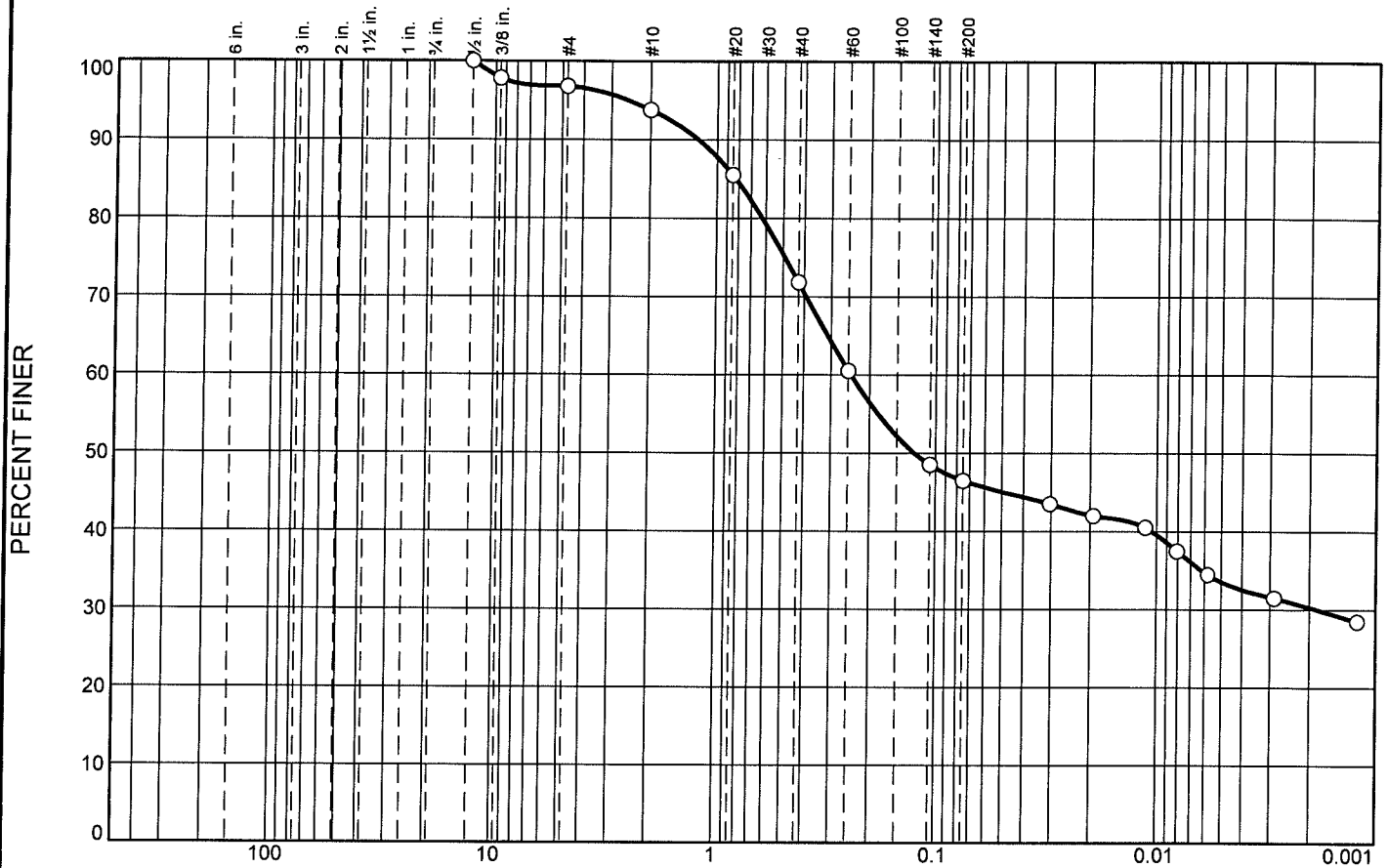
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	3.2	50.3	13.0	33.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	97.8		
#4	96.8		
#10	93.8		
#20	85.5		
#40	71.8		
#60	60.5		
#140	48.5		
#200	46.5		

* (no specification provided)

Material Description
Sand, some clay and silt, trace gravel, dark brown

Atterberg Limits
PL= 21 LL= 39 PI= 18

Coefficients
D₉₀= 1.2154 D₈₅= 0.8233 D₆₀= 0.2431
D₅₀= 0.1246 D₃₀= 0.0018 D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= SC AASHTO= A-6(5)

Remarks

Sample Number: B14 Depth: 0-1.5'

Date: 1/25/22

United Consulting

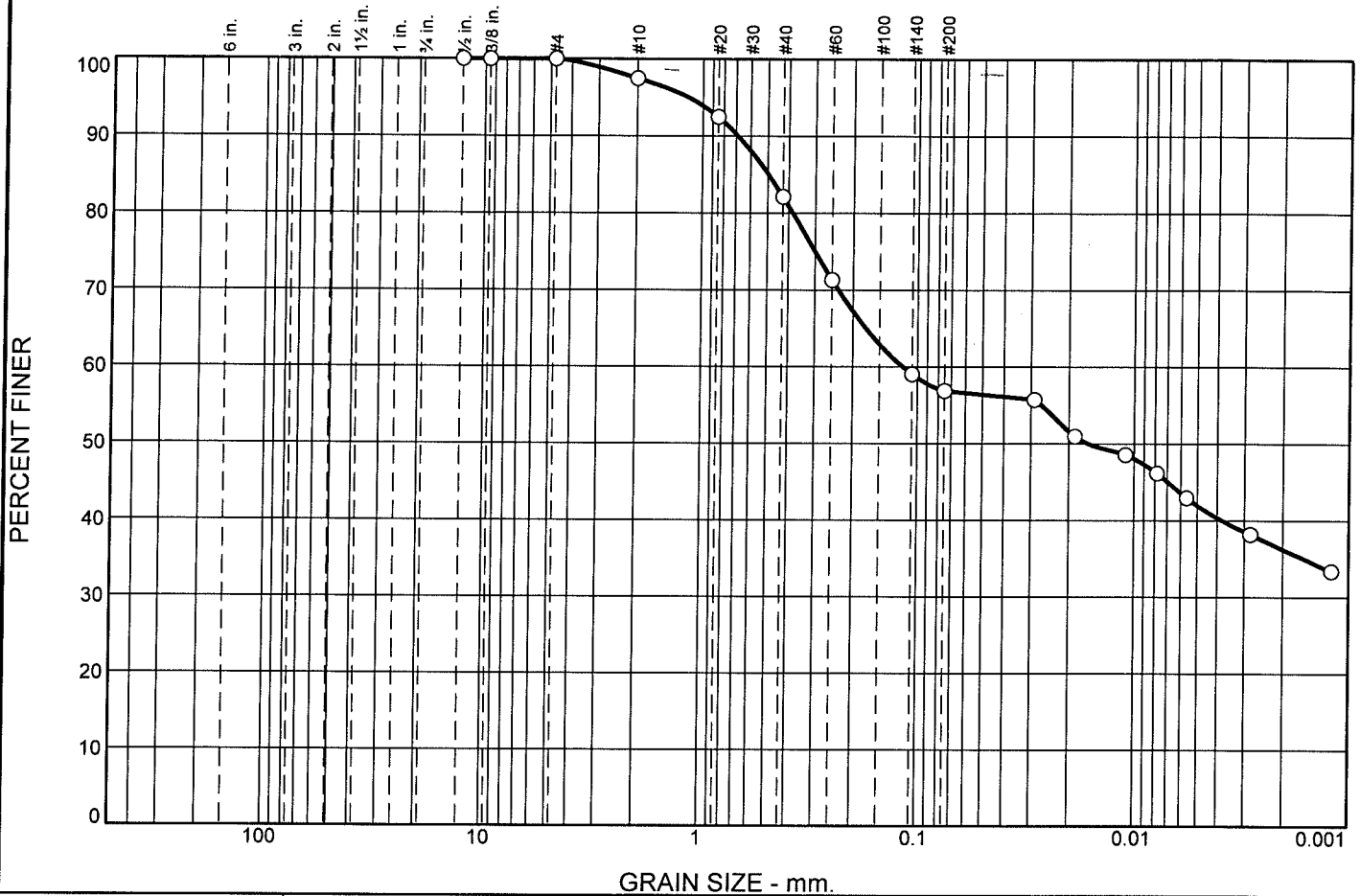
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Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	0.0	43.1	14.9	42.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	100.0		
#10	97.5		
#20	92.5		
#40	82.1		
#60	71.3		
#140	59.0		
#200	56.9		

* (no specification provided)

Material Description		
Silt-sandy-clayey, red brown		
Atterberg Limits PL= 34 LL= 60 PI= 26		
Coefficients D₉₀= 0.6880 D₈₅= 0.4970 D₆₀= 0.1171 D₅₀= 0.0163 D₃₀= D₁₅= D₁₀= C_u= C_c=		
Classification USCS= MH AASHTO= A-7-5(13)		
Remarks		

Sample Number: B17 Depth: 3.5-5'

Date: 1/25/22

United Consulting

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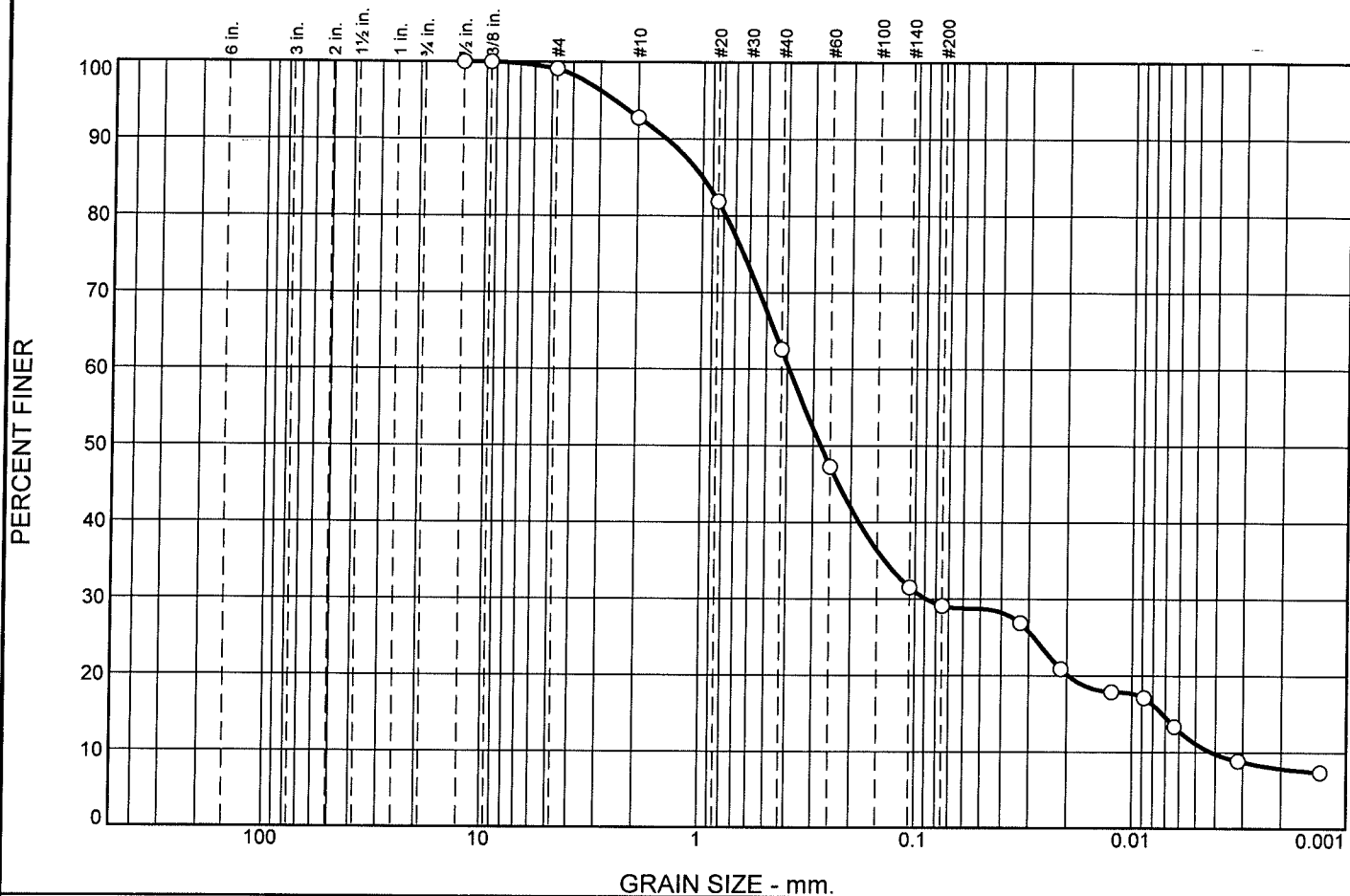
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	0.8	70.1	18.0	11.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	99.2		
#10	92.8		
#20	81.9		
#40	62.6		
#60	47.3		
#140	31.5		
#200	29.1		

* (no specification provided)

Material Description

Sand, some silt and clay, trace gravel, light brown

Atterberg Limits

PL= 24

LL= 30

PI= 6

Coefficients

D₉₀= 1.4798

D₈₅= 1.0039

D₆₀= 0.3904

D₅₀= 0.2769

D₃₀= 0.0892

D₁₅= 0.0072

D₁₀= 0.0042

C_u= 92.95

C_c= 4.85

Classification

USCS= SM

AASHTO= A-2-4(0)

Remarks

Sample Number: B20

Depth: 0-1.5'

Date: 1/25/22

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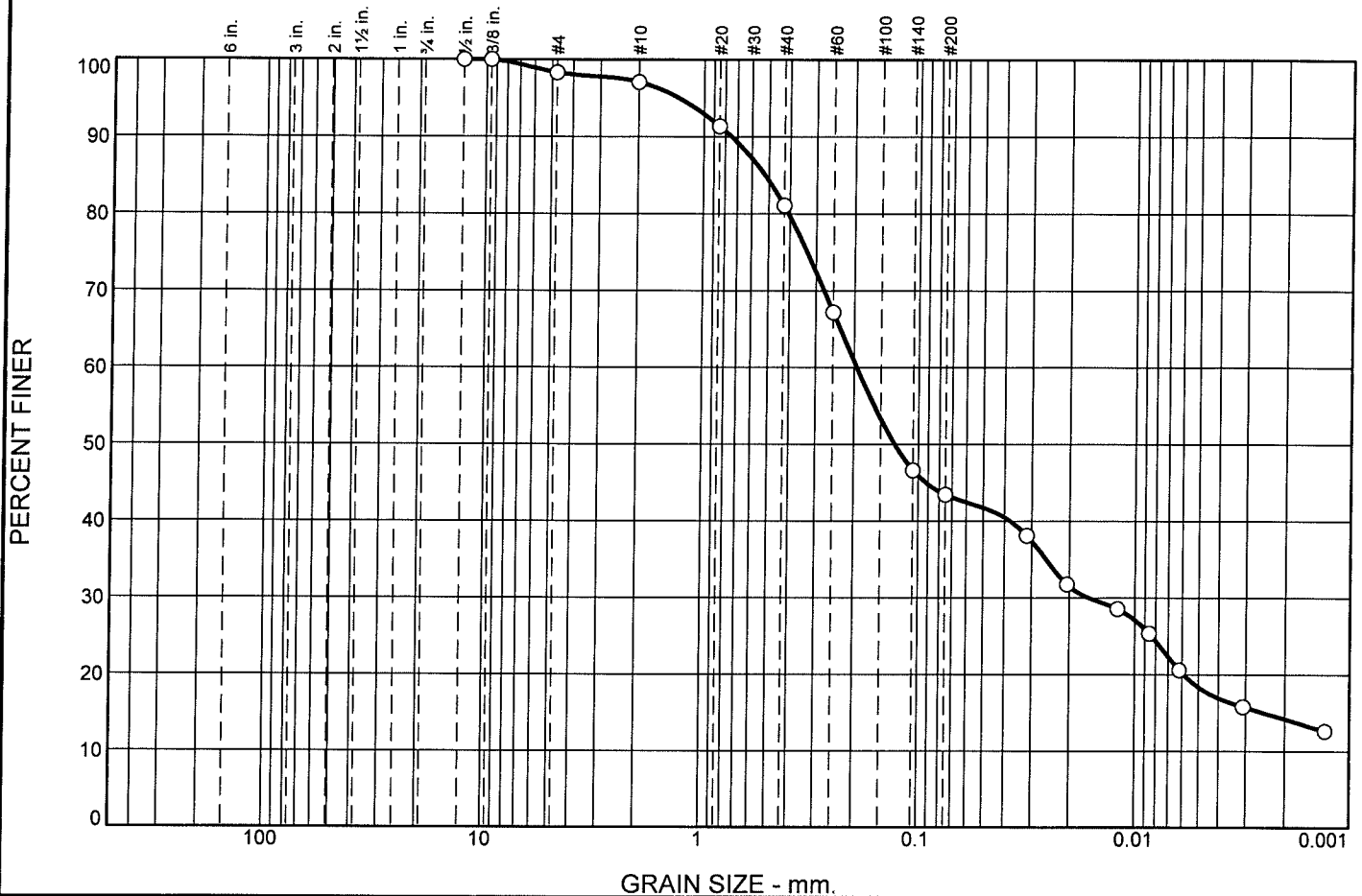
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	1.7	54.9	25.1	18.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	98.3		
#10	97.1		
#20	91.4		
#40	81.1		
#60	67.2		
#140	46.6		
#200	43.4		

* (no specification provided)

Material Description

Sand, some silt and clay, trace gravel, red brown

Atterberg Limits

PL= 35 LL= 43 PI= 8

Coefficients

D₉₀= 0.7480 D₈₅= 0.5217 D₆₀= 0.1940
D₅₀= 0.1289 D₃₀= 0.0164 D₁₅= 0.0025
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-5(1)

Remarks

Sample Number: B22 Depth: 3.5-5'

Date: 1/25/22

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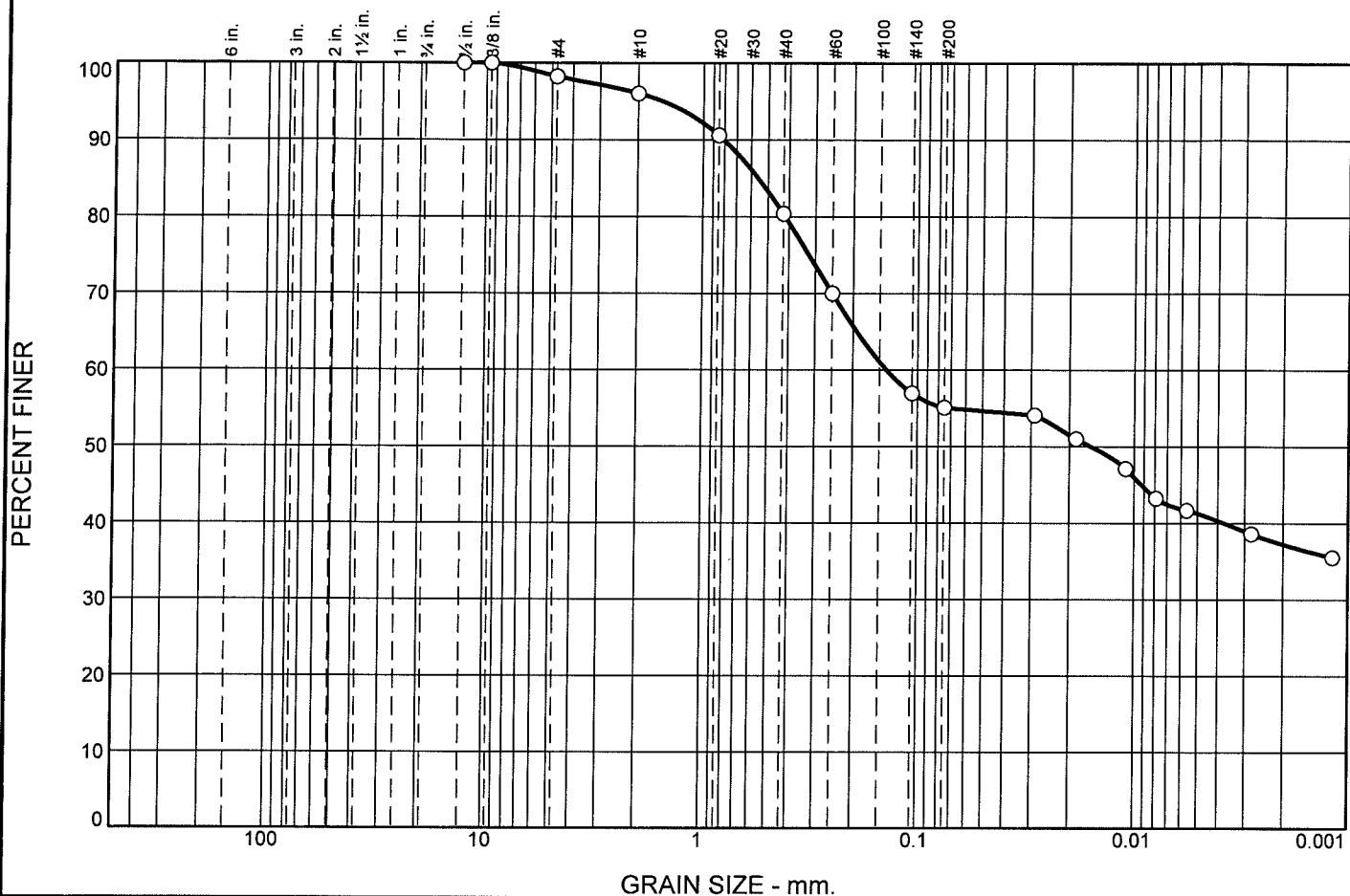
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	1.7	43.2	13.8	41.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	98.3		
#10	96.1		
#20	90.6		
#40	80.4		
#60	70.0		
#140	57.0		
#200	55.1		

* (no specification provided)

Material Description

Sand-clayey, some silt, trace gravel, brown

Atterberg Limits

PL= 31

LL= 53

PI= 22

Coefficients

D₉₀= 0.8059

D₈₅= 0.5571

D₆₀= 0.1392

D₅₀= 0.0159

D₃₀=

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= SC

AASHTO= A-7-5(10)

Remarks

Sample Number: B23

Depth: 0-1.5'

Date: 1/25/22

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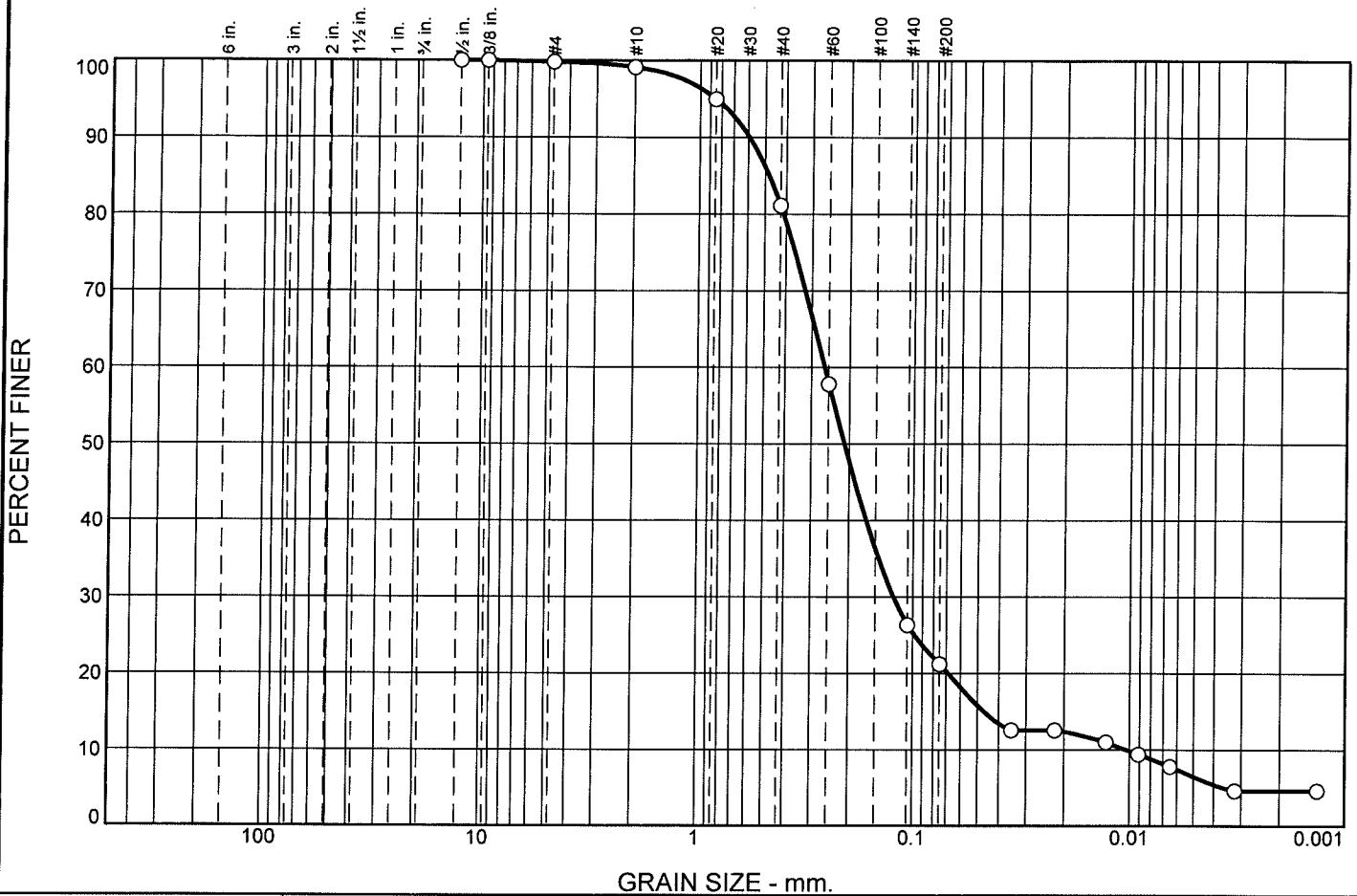
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	0.2	78.6	14.7	6.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	99.8		
#10	99.1		
#20	95.0		
#40	81.1		
#60	57.8		
#140	26.3		
#200	21.2		

* (no specification provided)

Material Description

Sand, some silt, trace clay and gravel, dark brown

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₉₀= 0.5945

D₈₅= 0.4809

D₆₀= 0.2619

D₅₀= 0.2110

D₃₀= 0.1235

D₁₅= 0.0471

D₁₀= 0.0104

C_u= 25.18

C_c= 5.60

Classification

USCS= SM

AASHTO= A-2-4(0)

Remarks

Sample Number: B24

Depth: 3.5-5'

Date:

United Consulting

Norcross, Georgia

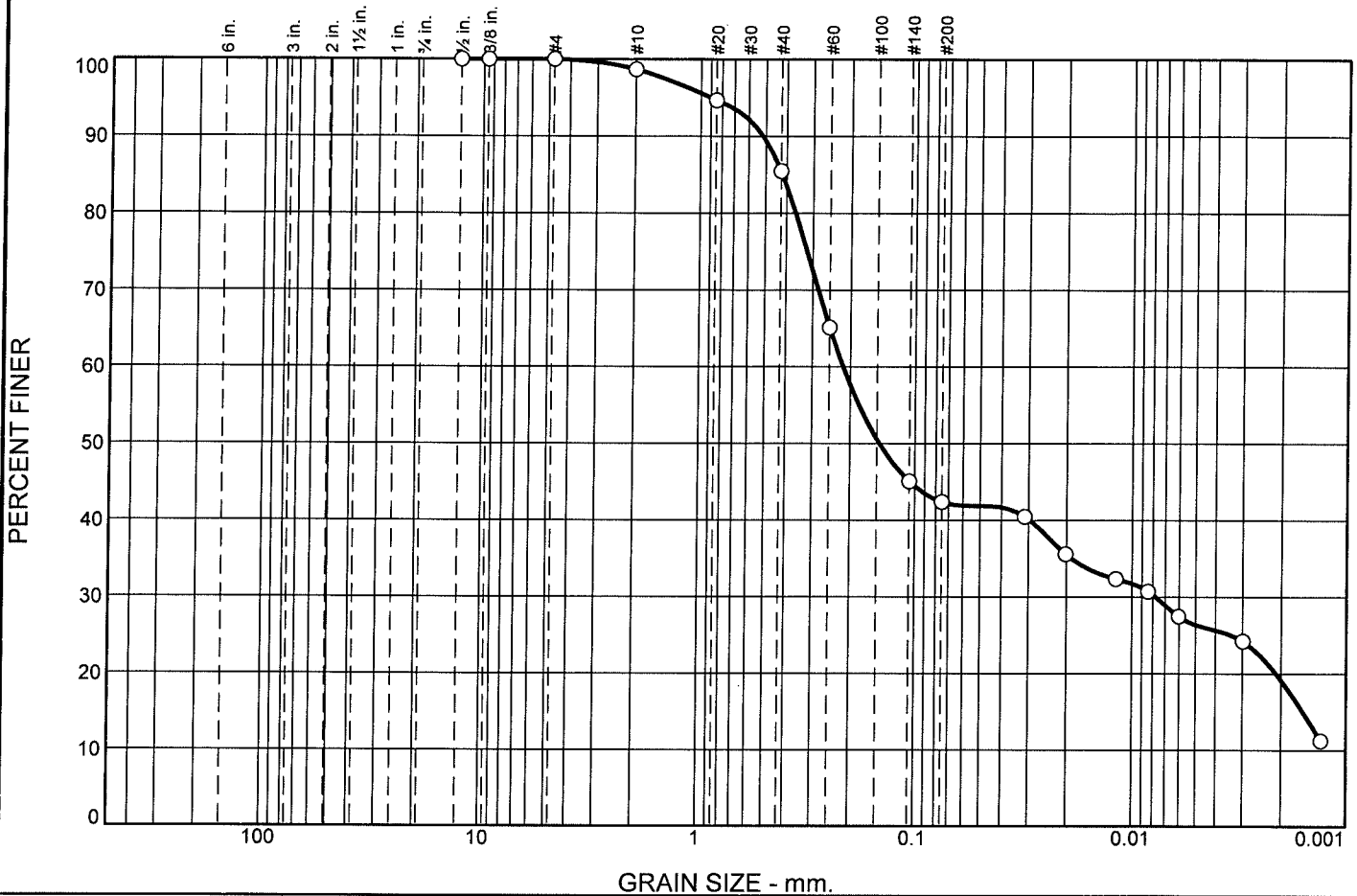
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"

0.0

% Gravel

0.0

% Sand

57.6

% Silt

16.0

% Clay

26.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	100.0		
#10	98.7		
#20	94.7		
#40	85.5		
#60	65.1		
#140	45.1		
#200	42.4		

* (no specification provided)

Material Description

Sand, some clay and silt, light brown

Atterberg Limits

PL= 45

LL= 64

PI= 19

Coefficients

D₉₀= 0.5164

D₈₅= 0.4183

D₆₀= 0.2157

D₅₀= 0.1459

D₃₀= 0.0078

D₁₅= 0.0016

D₁₀=

C_u=

C_c=

Classification

USCS= SM

AASHTO= A-7-5(5)

Remarks

Sample Number: B27

Depth: 3.5-5'

Date: 1/25/22

United Consulting

Norcross, Georgia

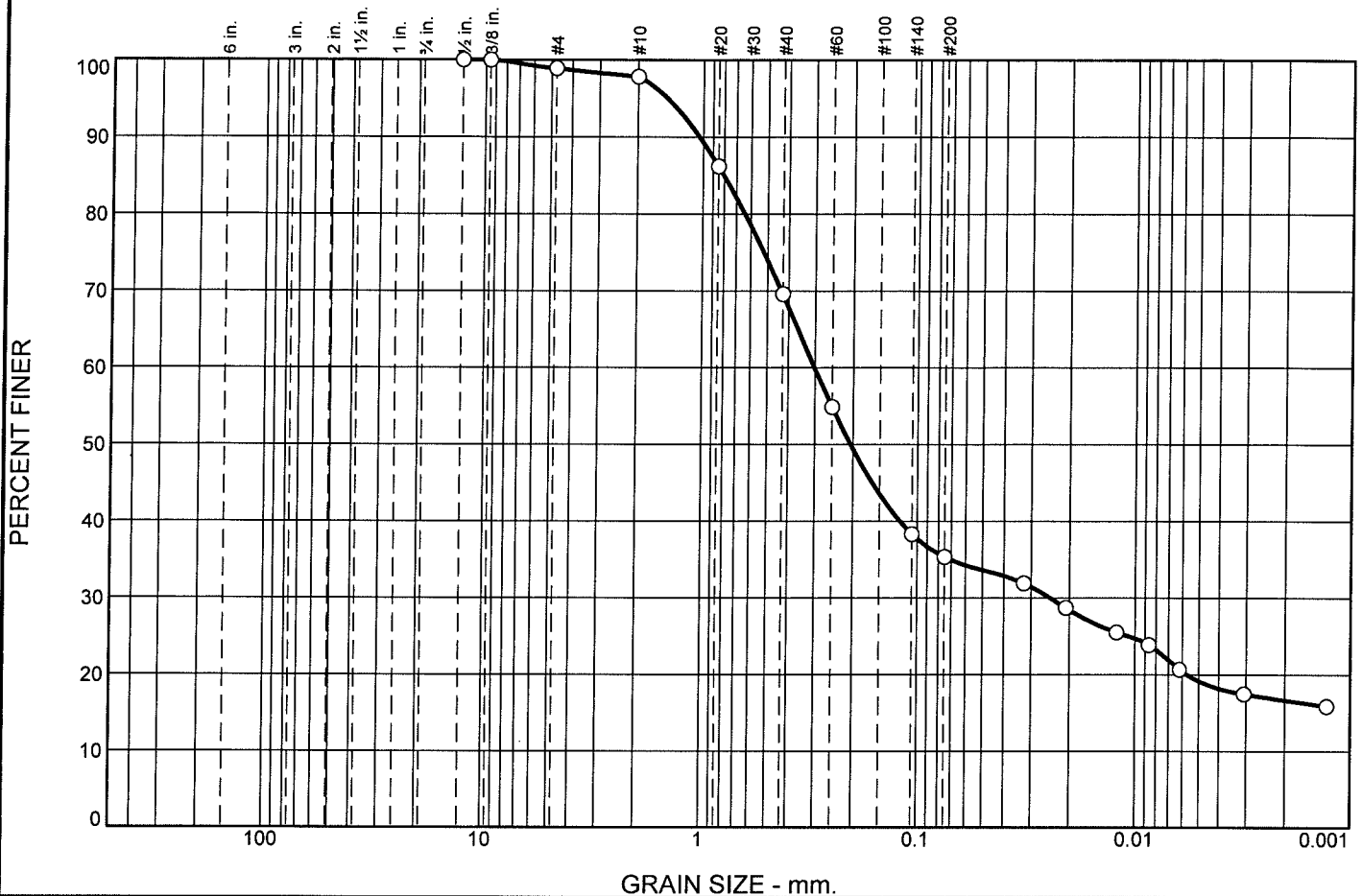
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"

0.0

% Gravel

1.1

% Sand

63.6

% Silt

16.2

% Clay

19.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	98.9		
#10	97.8		
#20	86.2		
#40	69.6		
#60	54.9		
#140	38.3		
#200	35.3		

* (no specification provided)

Material Description

Sand, some clay and silt, trace gravel, red brown

PL= 46

Atterberg Limits

LL= 51

PI= 5

Coefficients

D₉₀= 1.0416

D₈₅= 0.8020

D₆₀= 0.3021

D₅₀= 0.2050

D₃₀= 0.0246

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= SM

AASHTO= A-2-5(0)

Remarks

Sample Number: B30

Depth: 3.5-5'

Date: 1/25/22

United Consulting

Norcross, Georgia

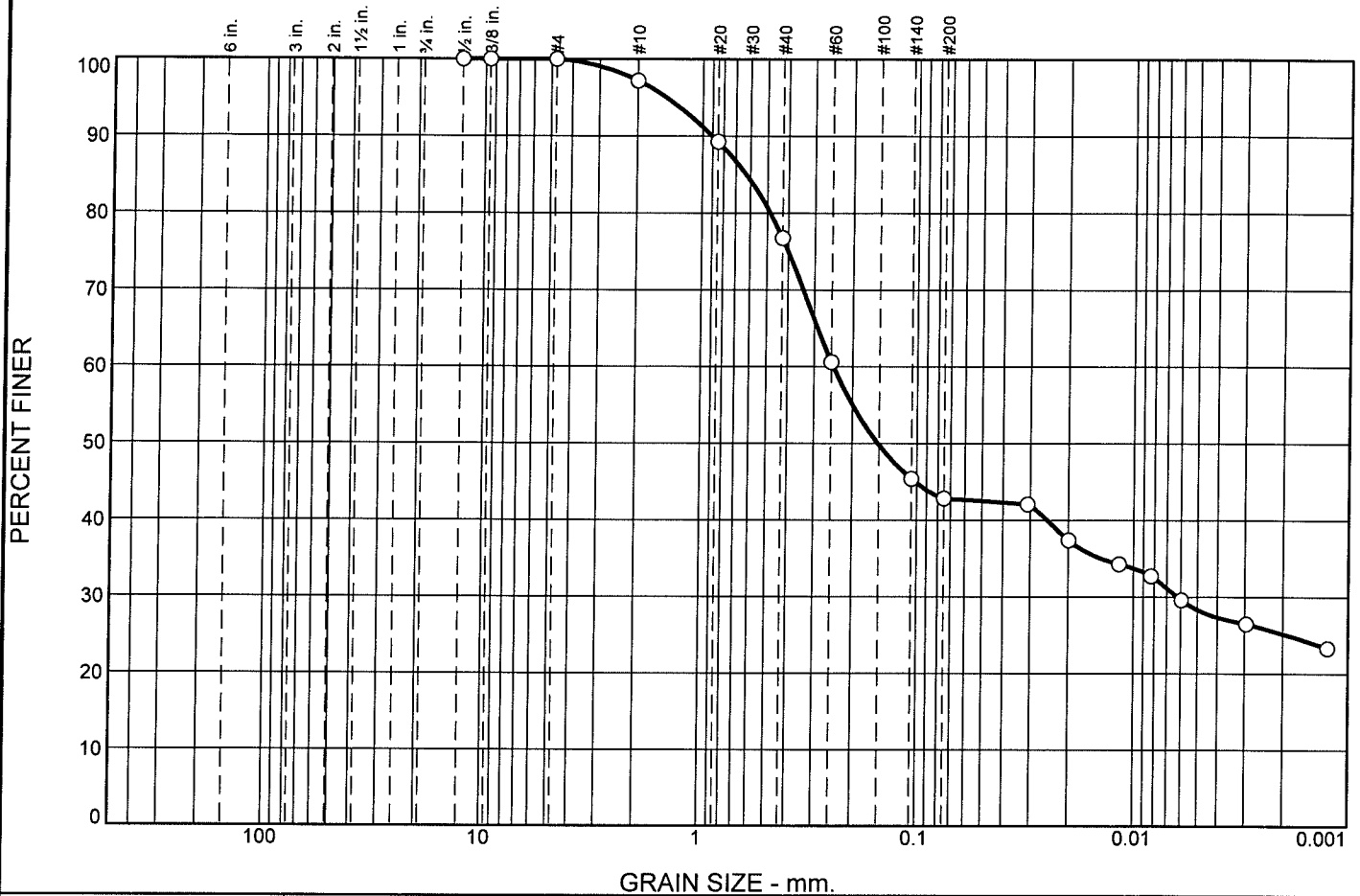
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	0.0	57.2	14.5	28.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	100.0		
#10	97.2		
#20	89.3		
#40	76.7		
#60	60.6		
#140	45.4		
#200	42.8		

* (no specification provided)

Material Description

Sand, some clay and silt, red brown

Atterberg Limits

PL= 28

LL= 47

PI= 19

Coefficients

D₉₀= 0.9033

D₈₅= 0.6278

D₆₀= 0.2446

D₅₀= 0.1520

D₃₀= 0.0062

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= SM

AASHTO= A-7-6(4)

Remarks

Sample Number: B33

Depth: 0-1.5'

Date: 1/25/22

United Consulting

Norcross, Georgia

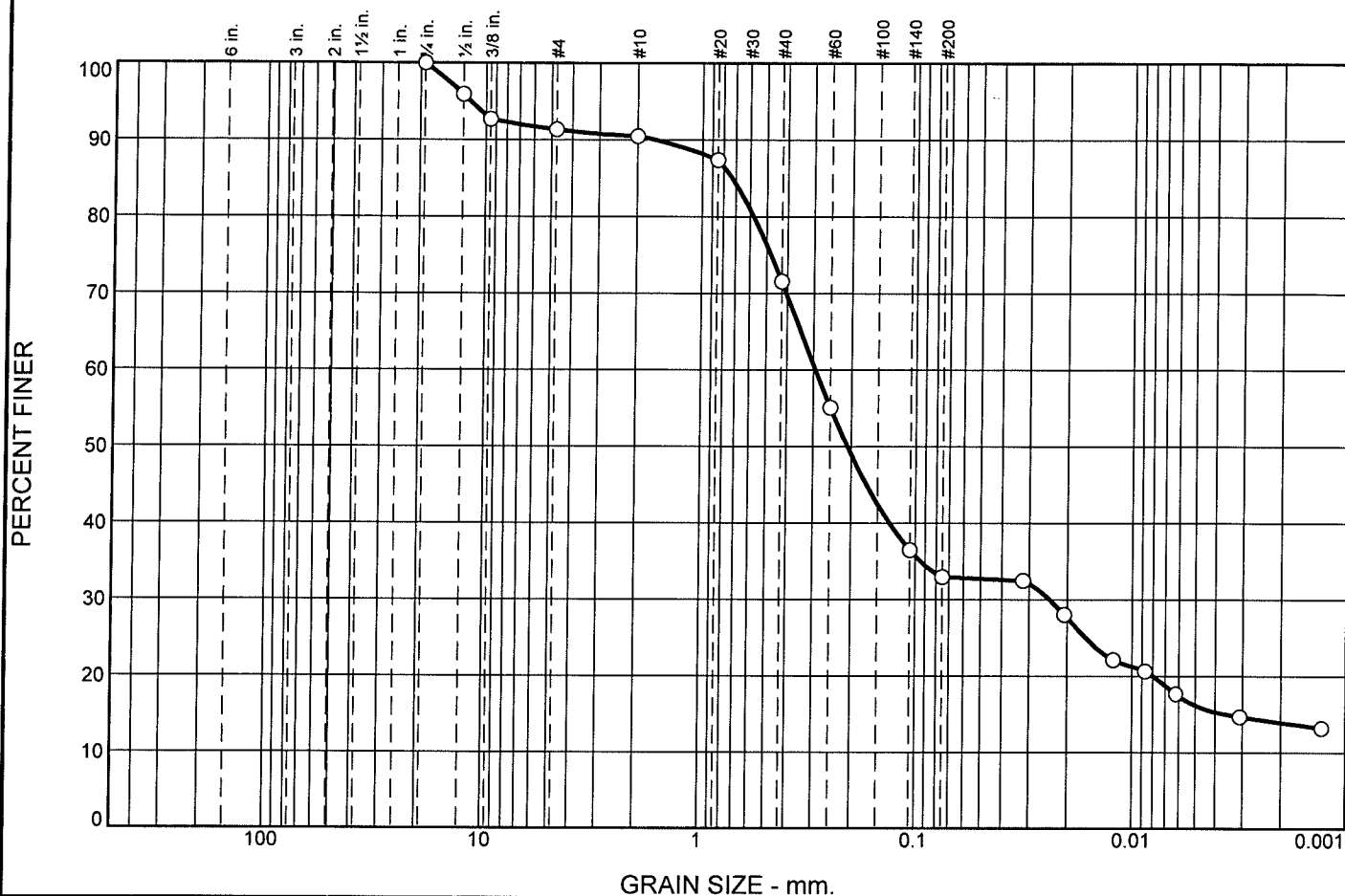
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	8.7	58.3	16.8	16.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.75	100.0		
0.5	95.9		
0.375	92.7		
#4	91.3		
#10	90.5		
#20	87.4		
#40	71.5		
#60	55.1		
#140	36.5		
#200	33.0		

* (no specification provided)

Material Description

Sand, some silt and clay, trace gravel, brown

Atterberg Limits

PL= 41 LL= 54 PI= 13

Coefficients

D₉₀= 1.6583 D₈₅= 0.7286 D₆₀= 0.2941
D₅₀= 0.2080 D₃₀= 0.0241 D₁₅= 0.0036
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-7(1)

Remarks

Sample Number: B35 Depth: 3.5-5'

Date: 1/25/22

United Consulting

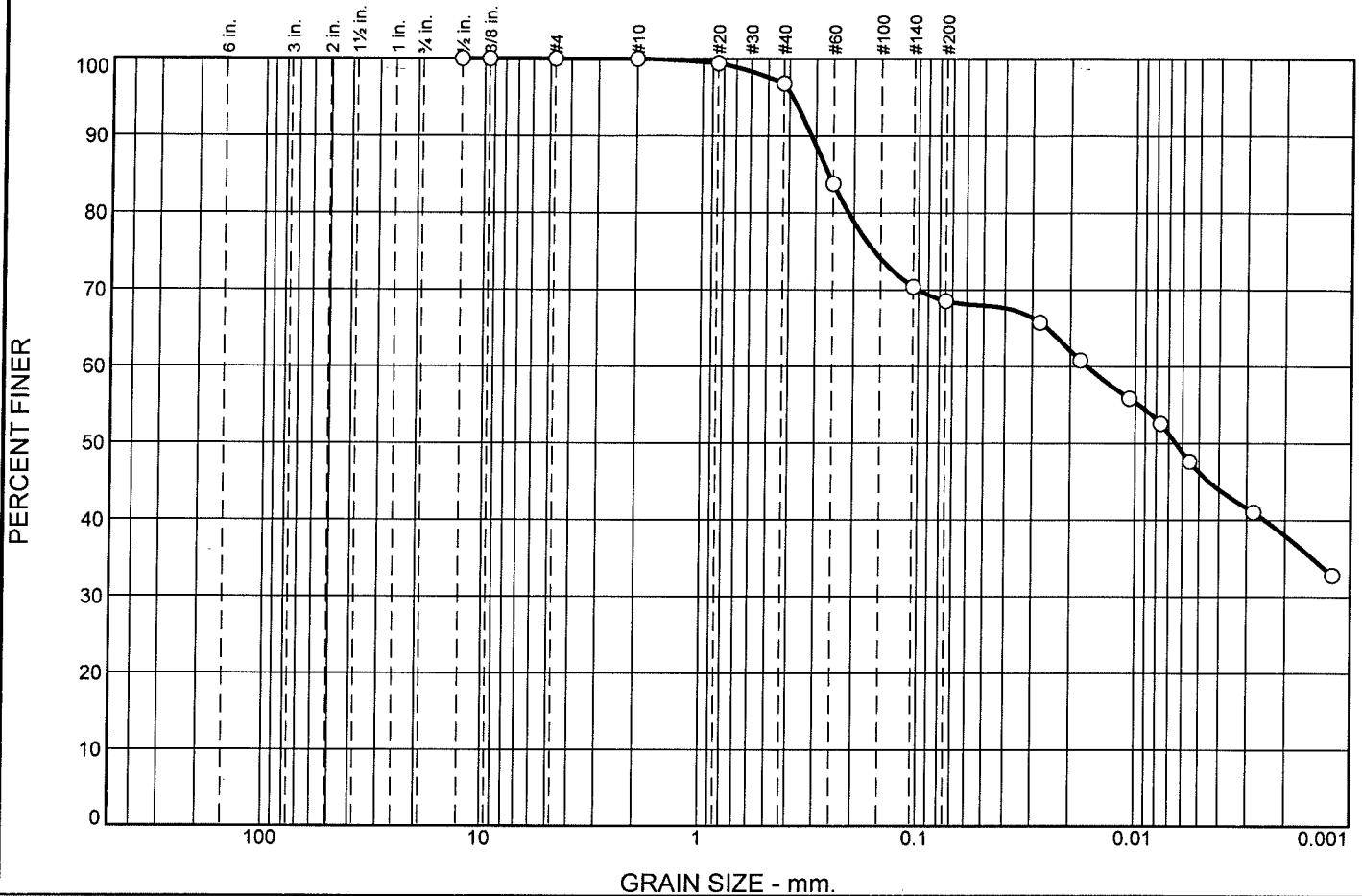
Norcross, Georgia

Client: ROCKDALE PIPELINE, INC.
Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	0.0	31.5	22.2	46.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	100.0		
#10	100.0		
#20	99.4		
#40	96.8		
#60	83.8		
#140	70.4		
#200	68.5		

* (no specification provided)

<u>Material Description</u>		
Silt-clayey, some sand, brown		
<u>Atterberg Limits</u>		
PL= 41	LL= 70	PI= 29
<u>Coefficients</u>		
D ₉₀ = 0.3155	D ₈₅ = 0.2621	D ₆₀ = 0.0167
D ₅₀ = 0.0065	D ₃₀ =	D ₁₅ =
D ₁₀ =	C _u =	C _c =
<u>Classification</u>		
USCS= MH	AASHTO= A-7-5(22)	
<u>Remarks</u>		

Sample Number: B37

Depth: 3.5-5'

Date: 1/25/22

United Consulting

Norcross, Georgia

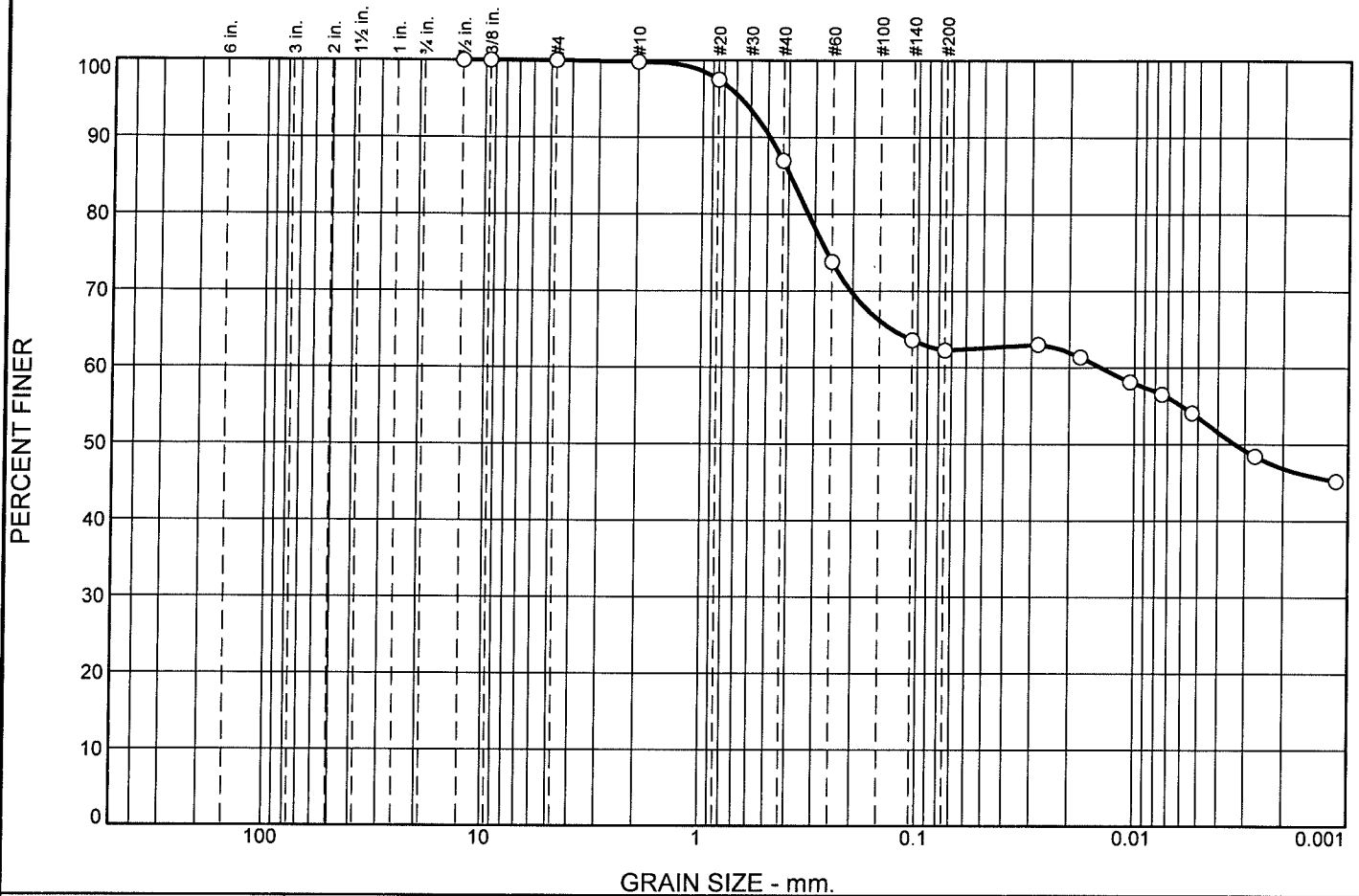
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	0.0	37.8	8.7	53.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	100.0		
#10	99.8		
#20	97.5		
#40	86.9		
#60	73.8		
#140	63.6		
#200	62.2		

* (no specification provided)

<u>Material Description</u>		
Silt-clayey-sandy, red brown		
<u>Atterberg Limits</u>		
PL= 38	LL= 62	PI= 24
<u>Coefficients</u>		
D ₉₀ = 0.4902	D ₈₅ = 0.3919	D ₆₀ = 0.0142
D ₅₀ = 0.0033	D ₃₀ =	D ₁₅ =
D ₁₀ =	C _u =	C _c =
<u>Classification</u>		
USCS= MH	AASHTO= A-7-5(15)	
<u>Remarks</u>		

Sample Number: B40

Depth: 0-1.5'

Date: 1/25/22

United Consulting

Norcross, Georgia

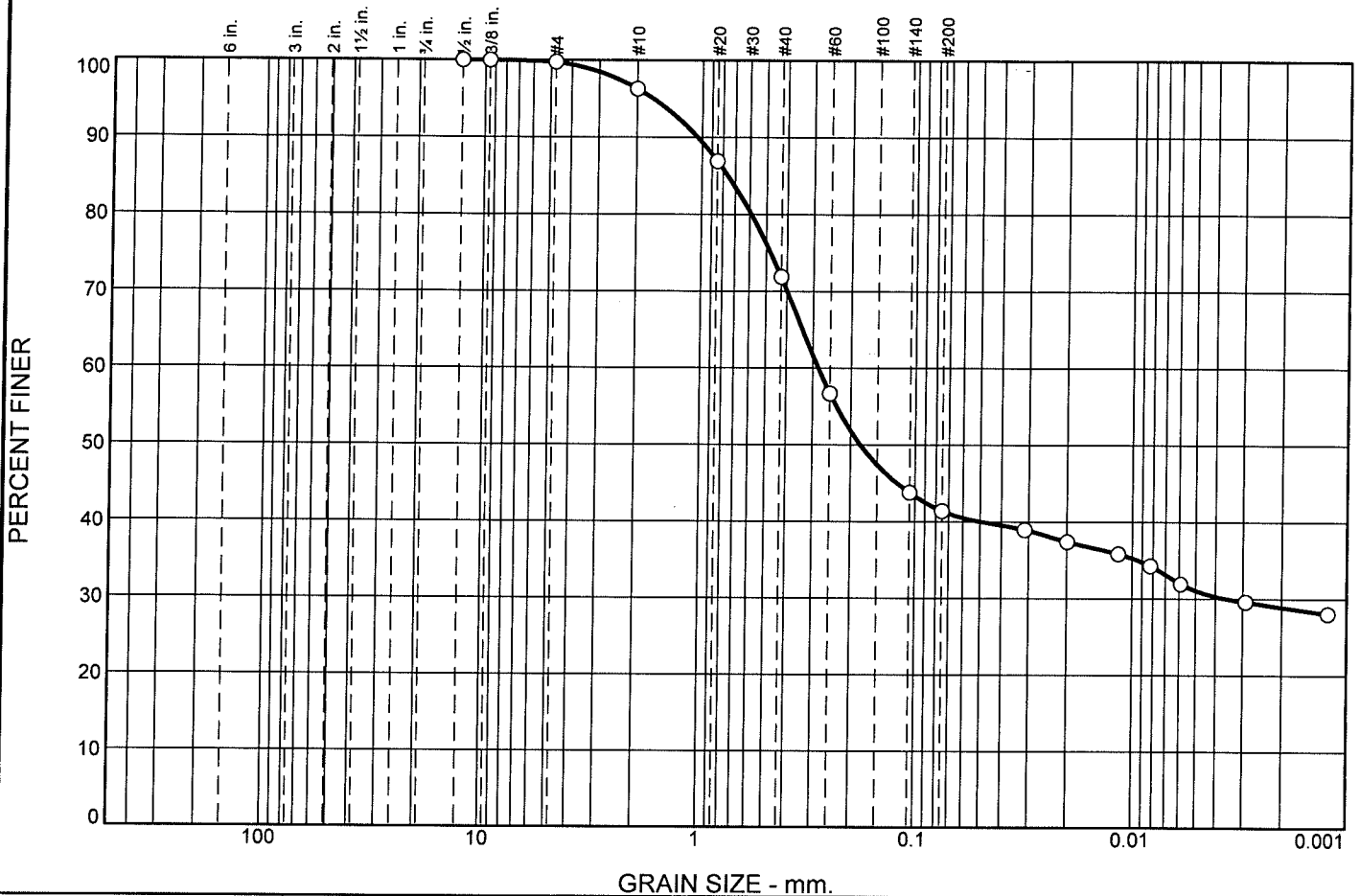
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



% +3"

0.0

% Gravel

0.3

GRAIN SIZE - mm.

% Sand

58.3

% Silt

10.3

% Clay

31.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.50	100.0		
0.375	100.0		
#4	99.7		
#10	96.3		
#20	86.9		
#40	71.9		
#60	56.7		
#140	43.8		
#200	41.4		

* (no specification provided)

Material Description

Sand, some clay, trace silt and gravel, red brown

Atterberg Limits

PL= 37

LL= 58

PI= 21

Coefficients

D₉₀= 1.0490

D₈₅= 0.7591

D₆₀= 0.2832

D₅₀= 0.1798

D₃₀= 0.0036

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= SM

AASHTO= A-7-5(5)

Remarks

Sample Number: B42

Depth: 3.5-5'

Date: 1/25/22

United Consulting

Norcross, Georgia

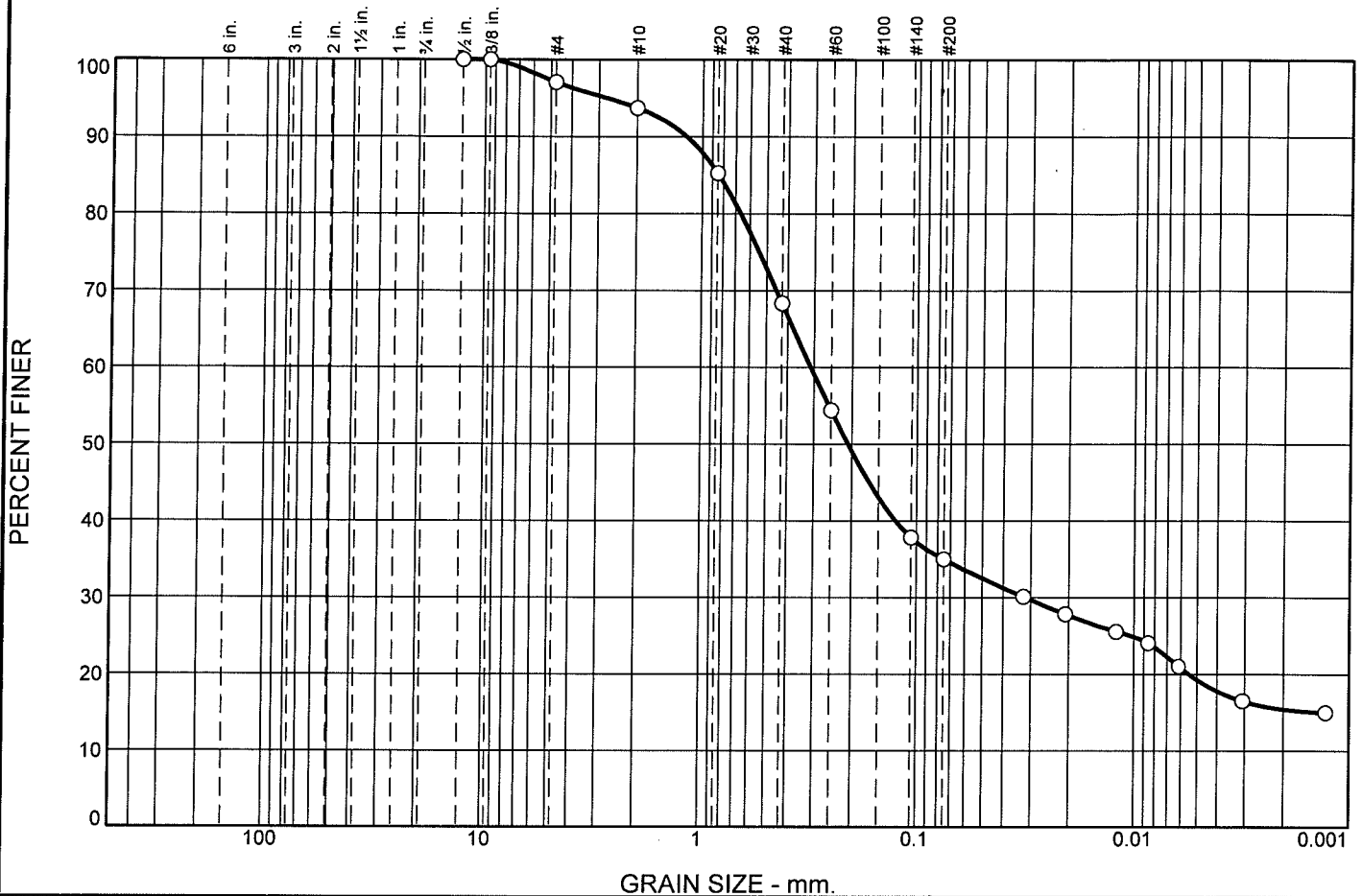
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	2.9	62.1	15.7	19.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	97.1		
#10	93.7		
#20	85.3		
#40	68.4		
#60	54.4		
#140	37.8		
#200	35.0		

* (no specification provided)

Material Description Sand, some clay and silt, trace gravel, brown		
PL= 45	Atterberg Limits LL= 63	PI= 18
D ₉₀ = 1.1836 D ₅₀ = 0.2082 D ₁₀ =	Coefficients D ₈₅ = 0.8381 D ₃₀ = 0.0318 C _u =	D ₆₀ = 0.3111 D ₁₅ = 0.0013 C _c =
Classification USCS= SM AASHTO= A-2-7(2)		
Remarks		

Sample Number: B44

Depth: 3.5-5'

Date: 1/25/22

United Consulting

Norcross, Georgia

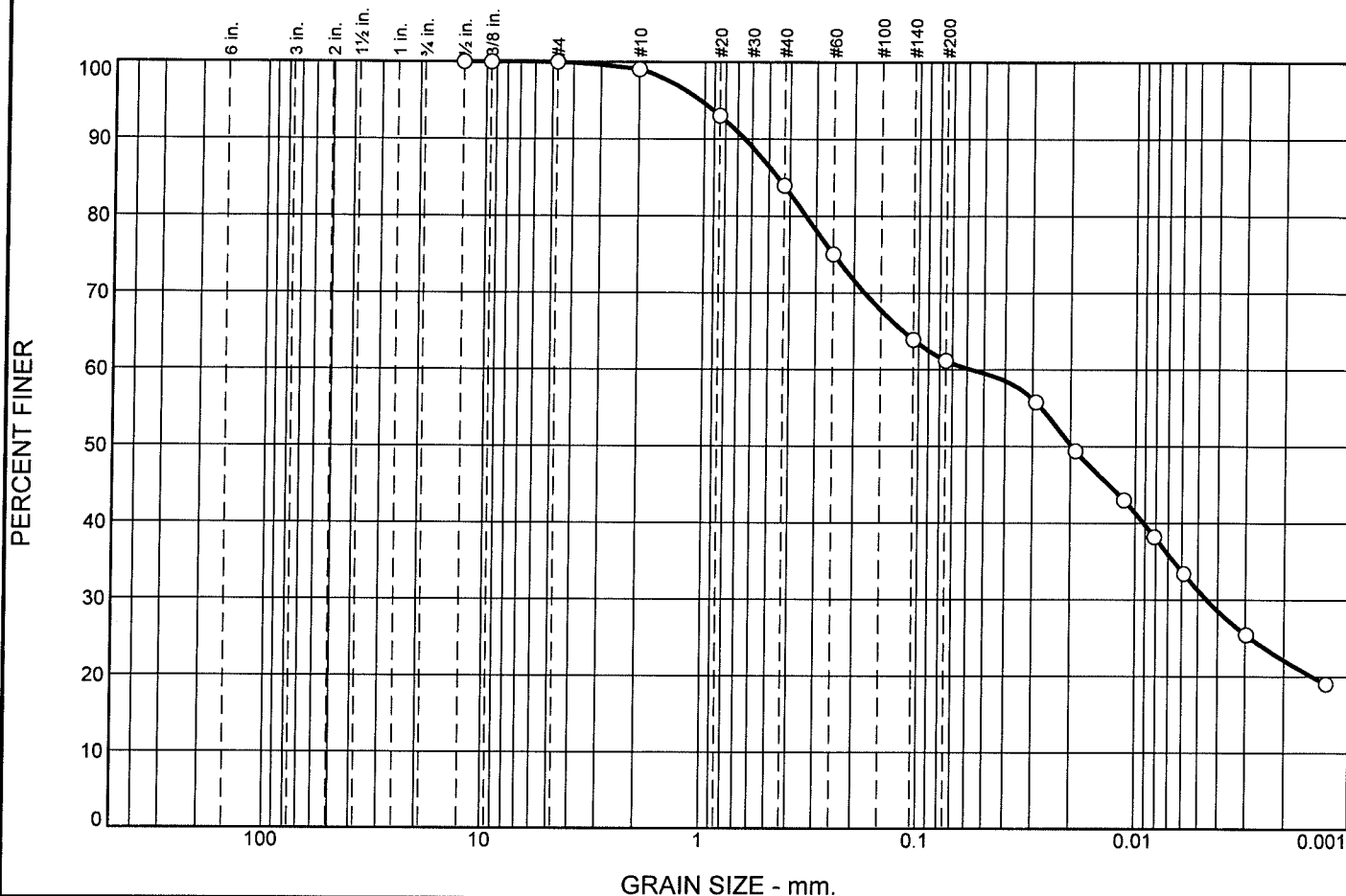
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	0.0	38.8	30.0	31.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	100.0		
#10	99.0		
#20	93.0		
#40	83.9		
#60	75.0		
#140	63.9		
#200	61.2		

* (no specification provided)

Material Description

Silt-sandy, some clay, red brown

Atterberg Limits

PL= 41 LL= 54 PI= 13

Coefficients

D₉₀= 0.6513 D₈₅= 0.4546 D₆₀= 0.0573
D₅₀= 0.0197 D₃₀= 0.0045 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= MH AASHTO= A-7-5(8)

Remarks

Sample Number: B46 Depth: 3.5-5'

Date: 1/25/22

United Consulting

Norcross, Georgia

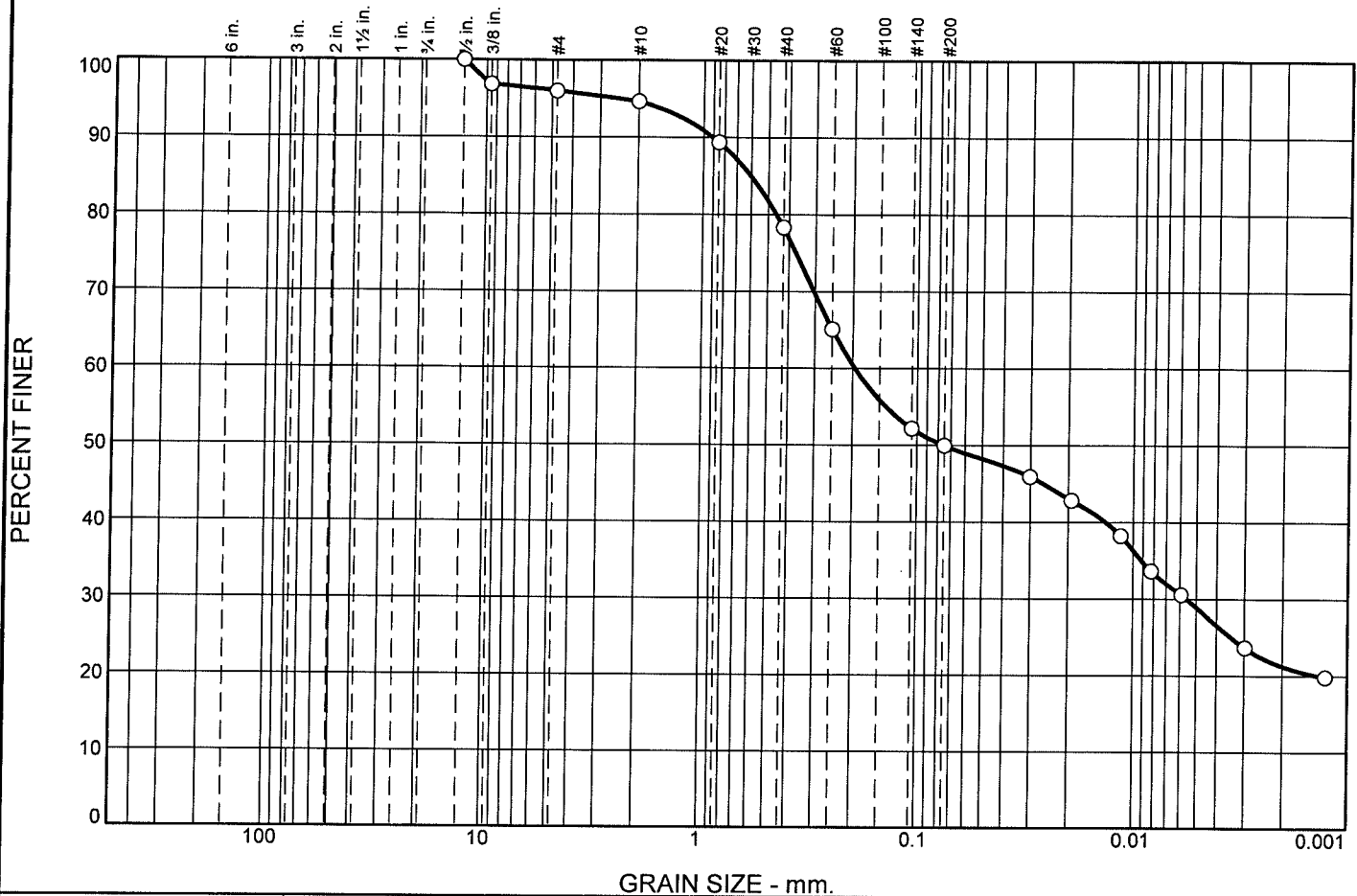
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	4.0	46.0	21.1	28.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	96.9		
#4	96.0		
#10	94.6		
#20	89.4		
#40	78.3		
#60	65.1		
#140	52.2		
#200	50.0		

* (no specification provided)

Material Description		
Clay-sandy, some silt, trace gravel, brown		
Atterberg Limits PL= 26 LL= 45 PI= 19		
Coefficients D₉₀= 0.9067 D₈₅= 0.6043 D₆₀= 0.1950 D₅₀= 0.0757 D₃₀= 0.0056 D₁₅= D₁₀= C_u= C_c=		
Classification USCS= CL AASHTO= A-7-6(7)		
Remarks		

Sample Number: B48 Depth: 0-1.5'

Date: 1/25/22

United Consulting

Norcross, Georgia

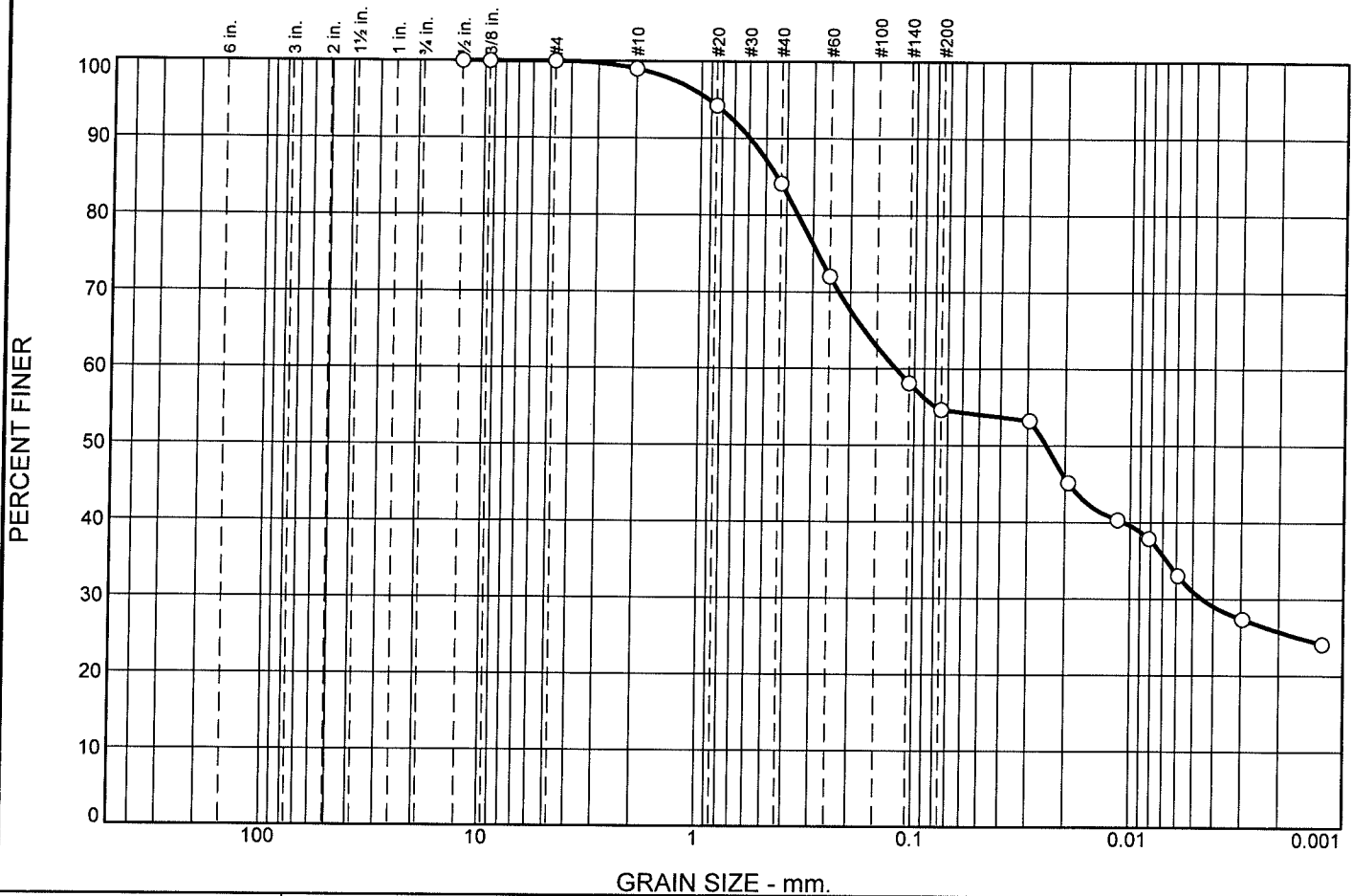
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	0.0	45.4	23.6	31.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	100.0		
#10	99.0		
#20	94.2		
#40	84.1		
#60	72.0		
#140	58.1		
#200	54.6		

* (no specification provided)

Material Description

Silt-sandy, some clay, light tan

Atterberg Limits

PL= 41

LL= 51

PI= 10

Coefficients

D₉₀= 0.5955

D₈₅= 0.4442

D₆₀= 0.1221

D₅₀= 0.0246

D₃₀= 0.0045

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= MH

AASHTO= A-5(5)

Remarks

Sample Number: B50

Depth: 3.5-5'

Date: 1/25/22

United Consulting

Norcross, Georgia

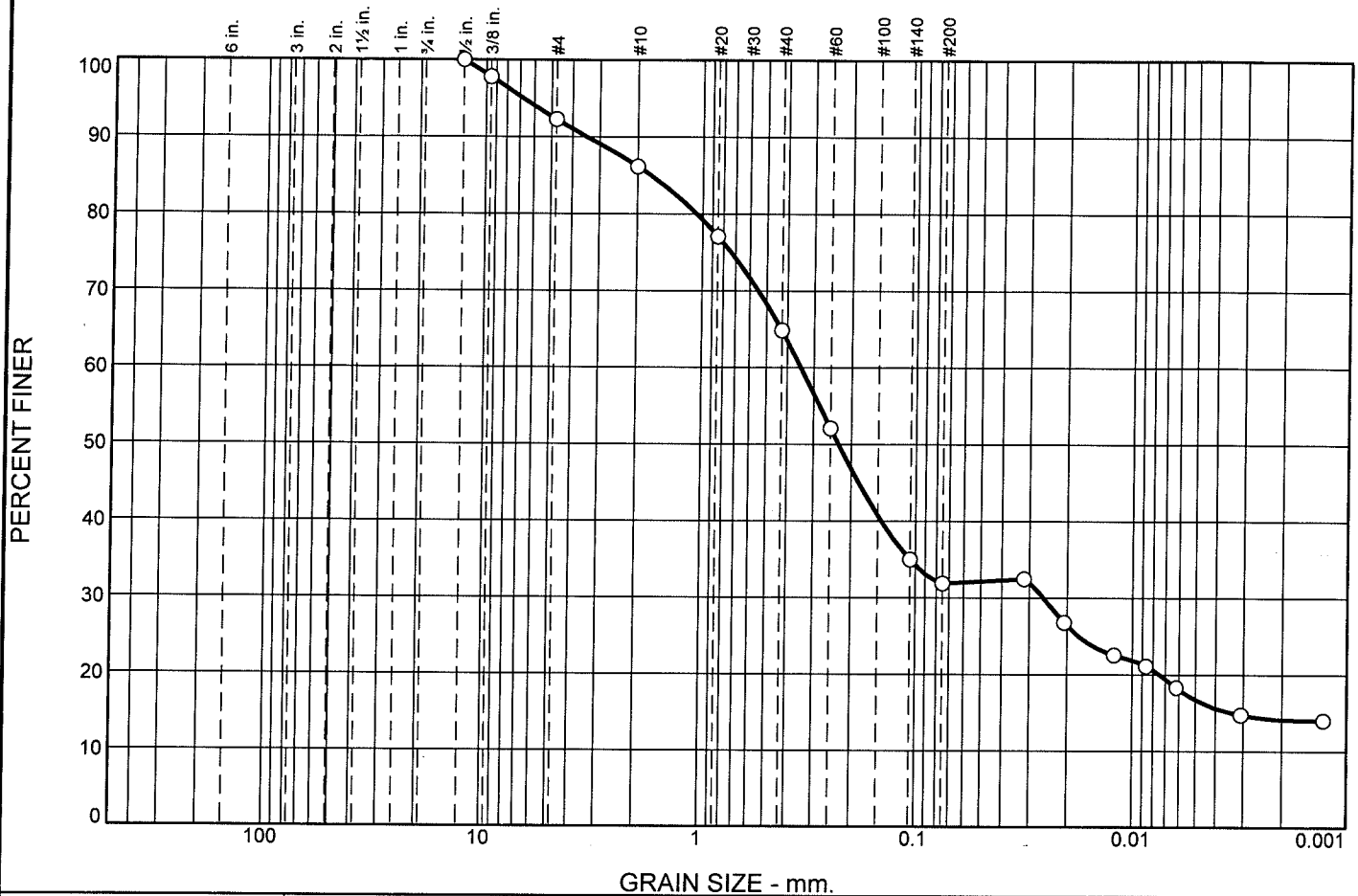
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	7.7	60.4	15.2	16.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	97.8		
#4	92.3		
#10	86.2		
#20	77.1		
#40	64.8		
#60	52.1		
#140	35.0		
#200	31.9		

* (no specification provided)

Material Description

Sand, some clay and silt, trace gravel, brown

Atterberg Limits

PL= 40 LL= 55 PI= 15

Coefficients

D₉₀= 3.4380 D₈₅= 1.7409 D₆₀= 0.3450
D₅₀= 0.2293 D₃₀= 0.0257 D₁₅= 0.0034
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-7(1)

Remarks

Sample Number: B52

Depth: 3.5-5'

Date: 1/25/22

United Consulting

Norcross, Georgia

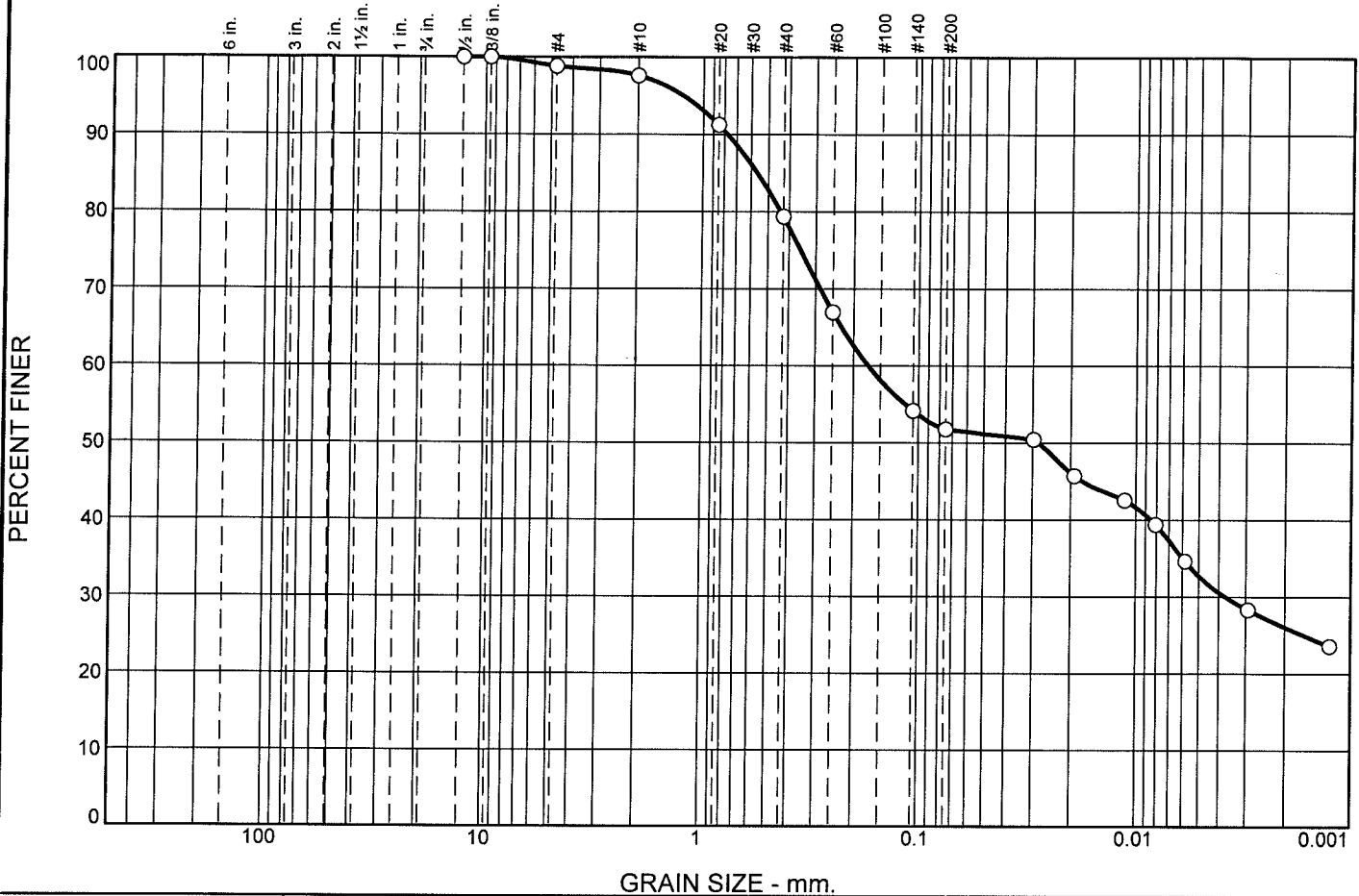
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	1.2	47.0	19.1	32.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	98.8		
#10	97.6		
#20	91.2		
#40	79.3		
#60	66.9		
#140	54.2		
#200	51.8		

* (no specification provided)

Material Description
Clay-sandy, some silt, trace gravel, brown

Atterberg Limits
PL= 25 LL= 42 PI= 17

Coefficients
D₉₀= 0.7730 D₈₅= 0.5632 D₆₀= 0.1709
D₅₀= 0.0282 D₃₀= 0.0037 D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= CL AASHTO= A-7-6(6)

Remarks

Sample Number: B54

Depth: 0-1.5'

Date: 1/25/22

United Consulting

Norcross, Georgia

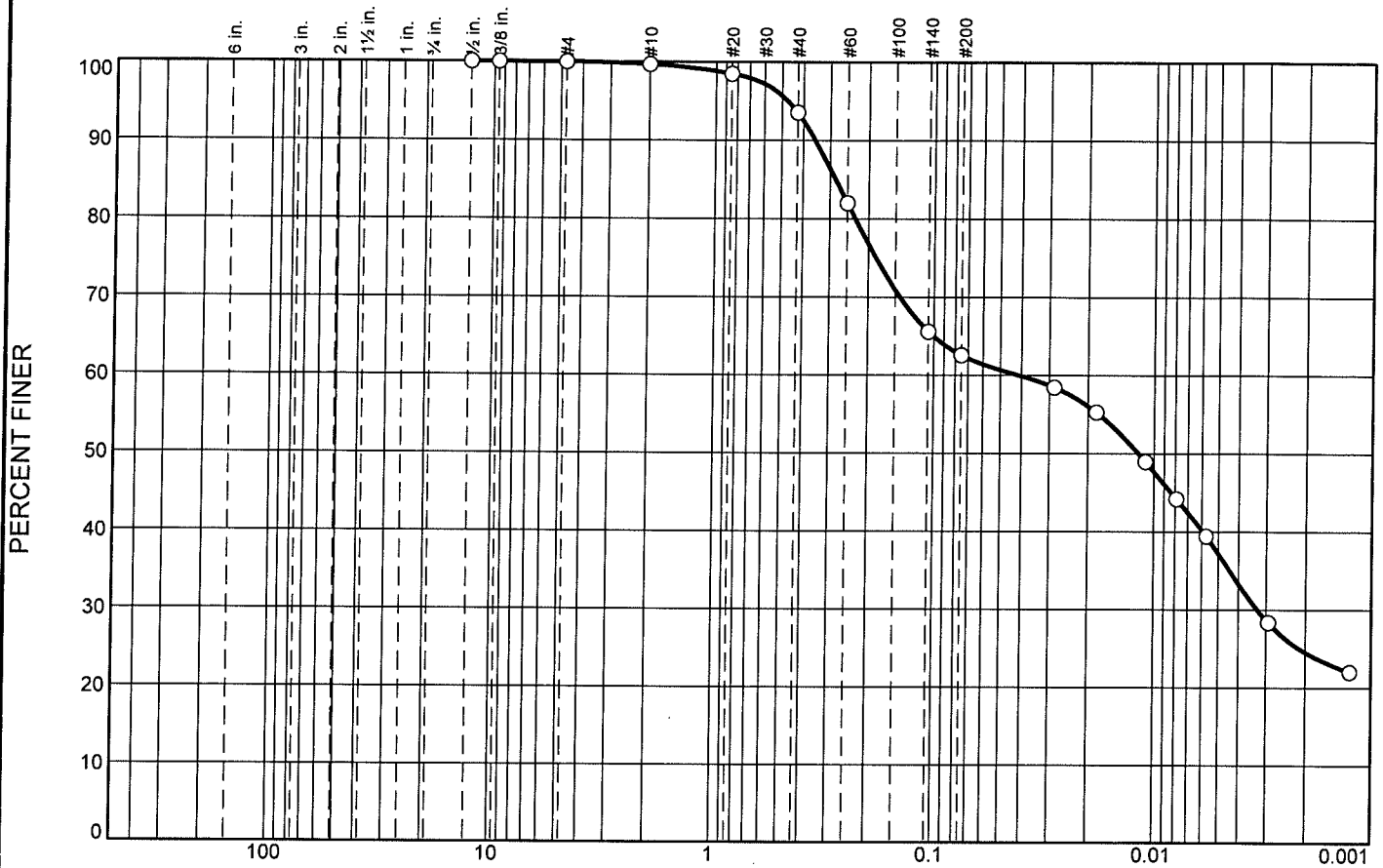
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"

0.0

% Gravel

0.0

% Sand

37.4

% Silt

25.4

% Clay

37.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	100.0		
#10	99.7		
#20	98.5		
#40	93.6		
#60	82.0		
#140	65.6		
#200	62.6		

* (no specification provided)

Material Description

Silt-sandy-clayey, brown green

Atterberg Limits

PL= 29

LL= 45

PI= 16

Coefficients

D₉₀= 0.3518

D₈₅= 0.2831

D₆₀= 0.0413

D₅₀= 0.0118

D₃₀= 0.0033

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= ML

AASHTO= A-7-6(9)

Remarks

Sample Number: B58

Depth: 0-1.5'

Date: 1/25/22

United Consulting

Norcross, Georgia

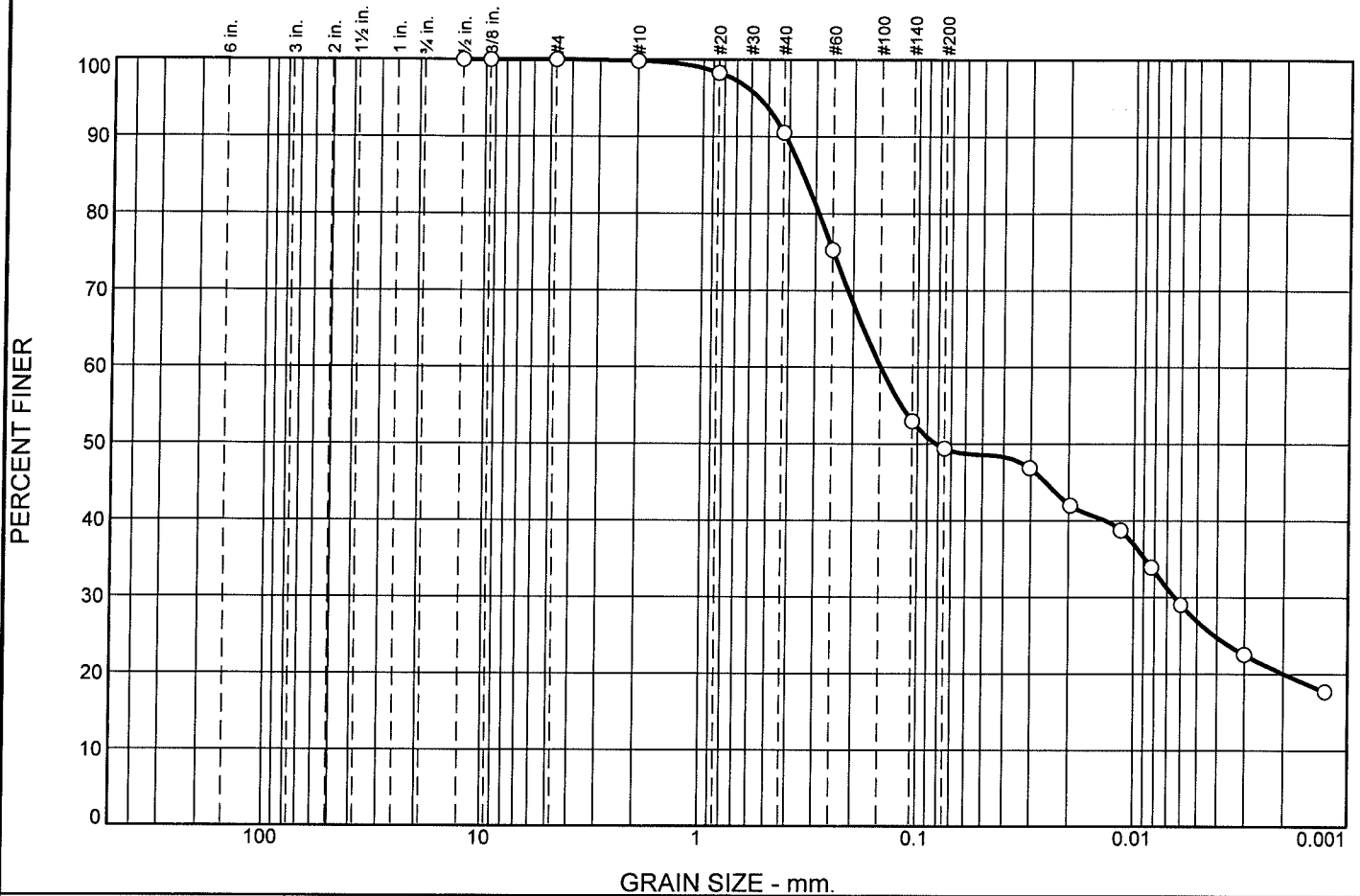
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

Particle Size Distribution Report



% +3"

0.0

% Gravel

0.0

% Sand

50.6

% Silt

22.5

% Clay

26.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5	100.0		
0.375	100.0		
#4	100.0		
#10	99.8		
#20	98.3		
#40	90.5		
#60	75.2		
#140	53.0		
#200	49.4		

* (no specification provided)

Material Description

Sand, some clay and silt, grey

Atterberg Limits

PL= 29

LL= 37

PI= 8

Coefficients

D₉₀= 0.4153

D₈₅= 0.3425

D₆₀= 0.1487

D₅₀= 0.0819

D₃₀= 0.0064

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= SM

AASHTO= A-4(2)

Remarks

Sample Number: B60

Depth: 3.5-5'

Date: 1/25/22

United Consulting

Norcross, Georgia

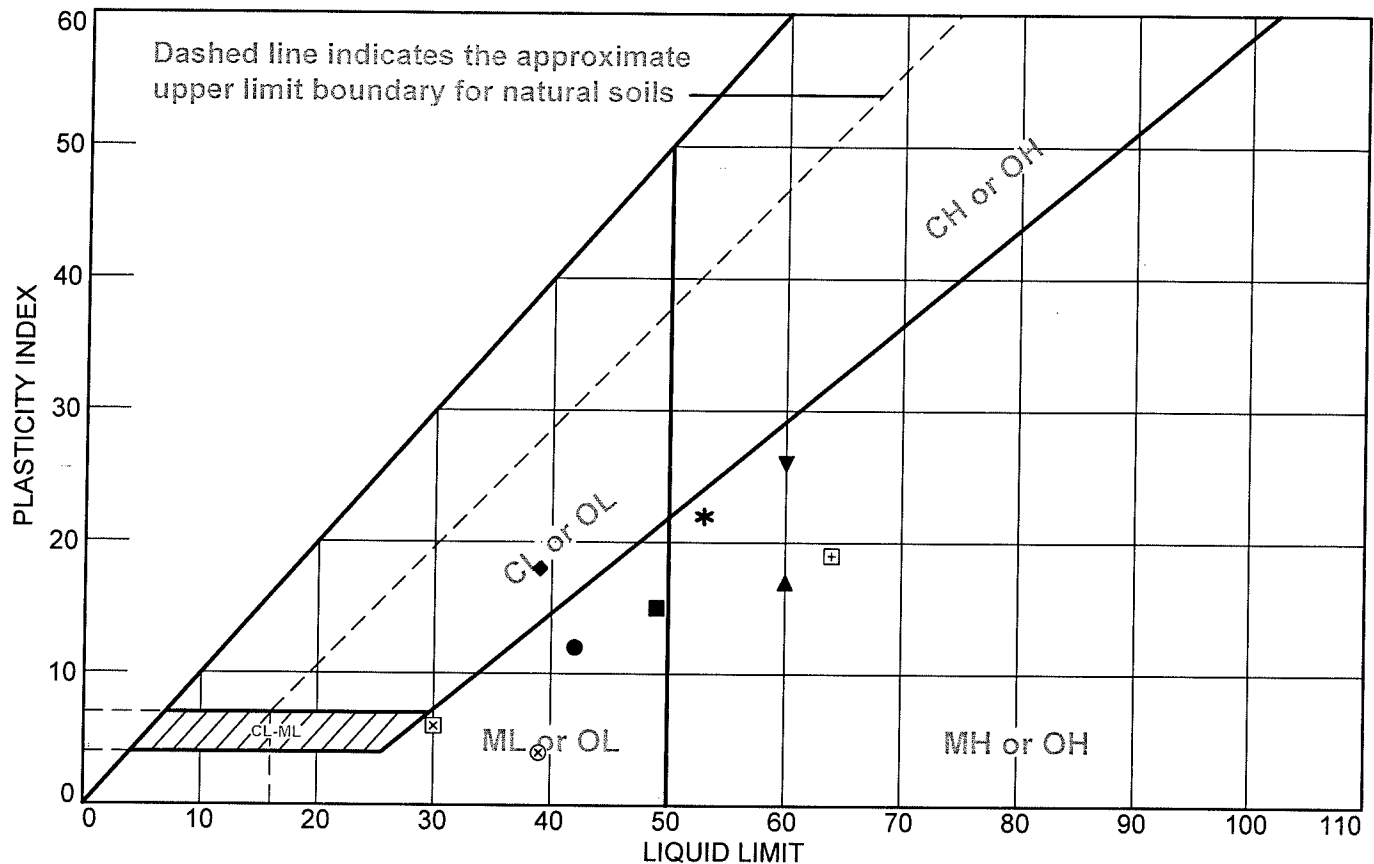
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No: ROCKW21GA0576601

Figure

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	LIQUIDITY INDEX	USCS
●		B1	3.5-5'	26.0	30	42	12	-0.3	SM
■		B4	3.5-5'	19.6	34	49	15	-1.0	SM
▲		B6	3.5-5'	21.2	43	60	17	-1.3	SM
◆		B14	0-1.5'	15.8	21	39	18	-0.3	SC
▼		B17	3.5-5'	23.8	34	60	26	-0.4	MH
*		B23	0-1.5'	22.8	31	53	22	-0.4	MH
⊕		B24	3.5-5'	12.1	NP	NV	NP		SM
⊠		B27	3.5-5'	28.0	45	64	19	-0.9	SM
⊗		B10	3.5-5'	21.7	35	39	4	-3.3	SM
⊠		B20	0-1.5'	9.7	24	30	6	-2.4	SM

United Consulting

Norcross, Georgia

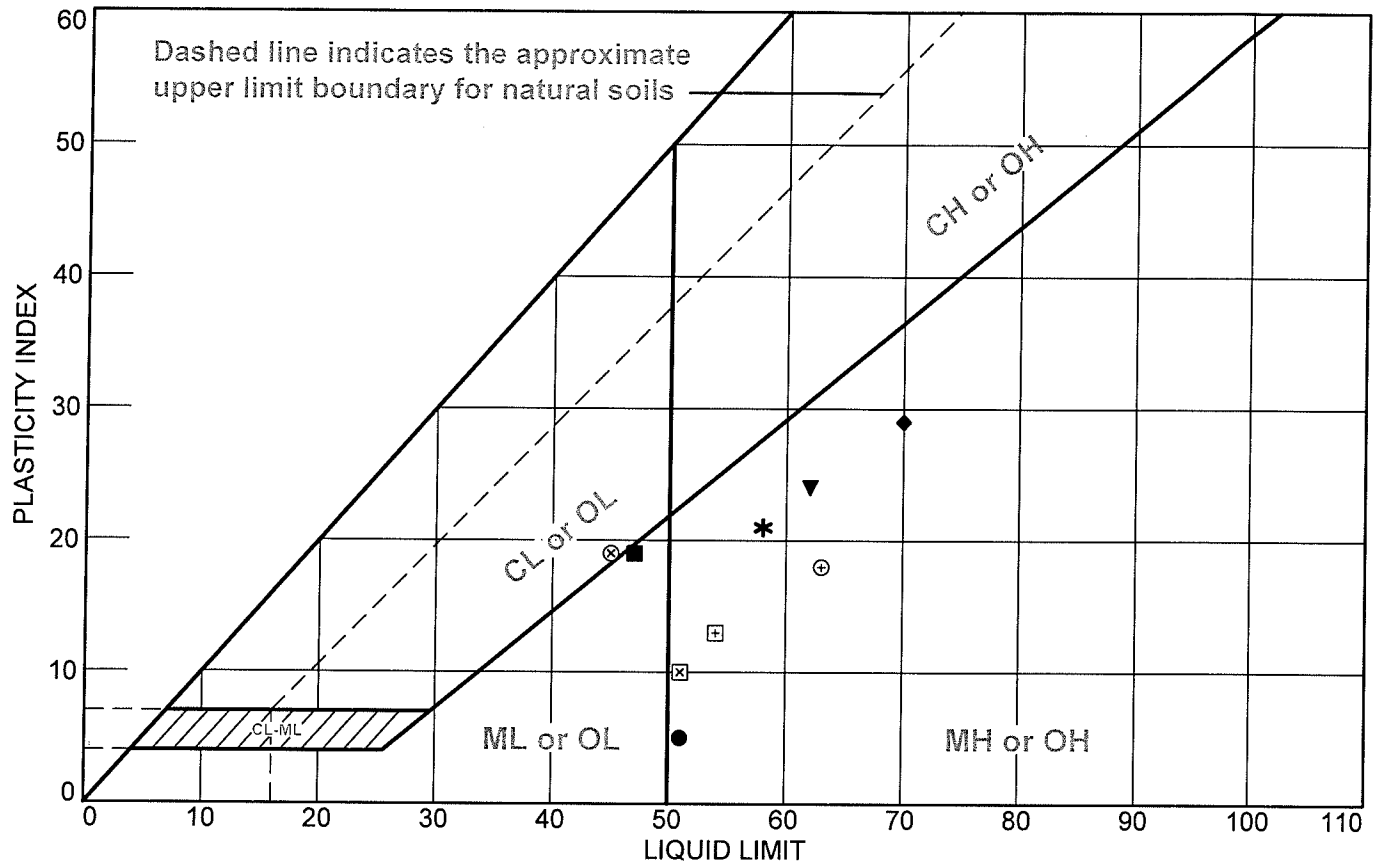
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No.: ROCKW21GA0576601

Figure

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	LIQUIDITY INDEX	USCS
●		B30	3.5-5'	25.5	46	51	5	-4.1	SM
■		B33	0-1.5'	21.6	28	47	19	-0.3	SM
▲		B35	3.5-5'	20.3	41	54	13	-1.6	SM
◆		B37	3.5-5'	29.4	41	70	29	-0.4	MH
▼		B40	0-1.5'	31.1	38	62	24	-0.3	MH
*		B42	3.5-5'	19.7	37	58	21	-0.8	SM
⊕		B44	3.5-5'	20.6	45	63	18	-1.4	SM
⊞		B46	3.5-5'	26.5	41	54	13	-1.1	MH
⊗		B48	0-1.5'	18.8	26	45	19	-0.4	CL
⊠		B50	3.5-5'	24.3	41	51	10	-1.7	MH

United Consulting

Norcross, Georgia

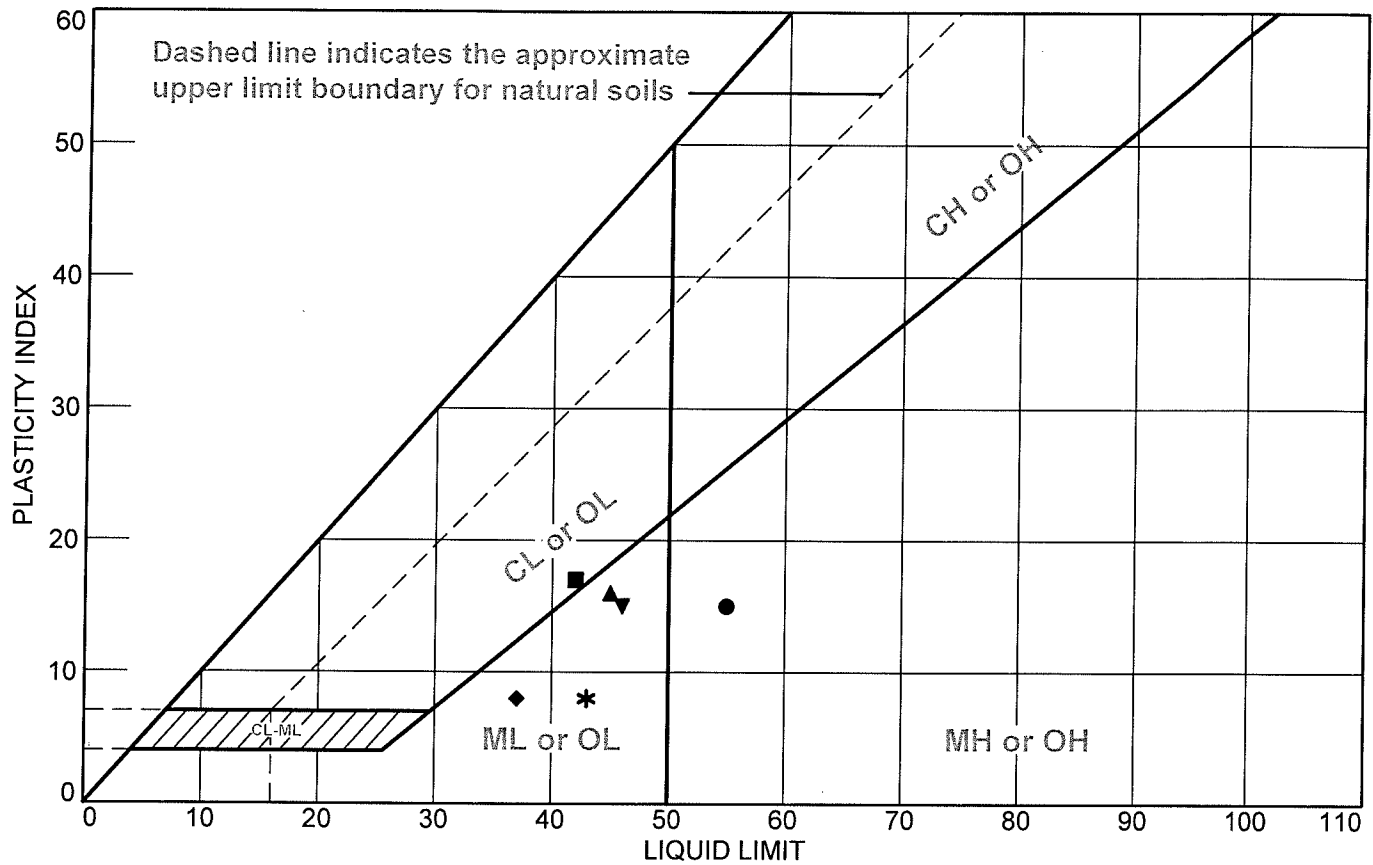
Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No.: ROCKW21GA0576601

Figure

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	LIQUIDITY INDEX	USCS
●		B52	3.5-5'	18.7	40	55	15	-1.4	SM
■		B54	0-1.5'	22.7	25	42	17	-0.1	CL
▲		B58	0-1.5'	30.3	29	45	16	0.1	ML
◆		B60	3.5-5'	33.5	29	37	8	0.6	SM
▼		B8	0-1.5'	17.5	31	46	15	-0.9	SM
*		B22	3.5-5'	20.8	35	43	8	-1.8	SM

United Consulting

Norcross, Georgia

Client: ROCKDALE PIPELINE, INC.

Project: SCOTTS & HONEY CREEK WWTPS

Project No.: ROCKW21GA0576601

Figure



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 03, 2022

Dina Mikhaeel
United Consulting Group Inc.

625 Holcomb Bridge Rd
Norcross GA 30071

RE: Scotts & Honey Creek WWTPS

Dear Dina Mikhaeel:

Order No: 2201S57

Analytical Environmental Services, Inc. received 20 samples on 1/26/2022 2:13:00 PM
for the analyses presented in following report.

“No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/21-06/30/22.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/23.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar
Project Manager

1/2

SAMPLE CHAIN-OF-CUSTODY RECORD

UNITED CONSULTING

625 Holcomb Bridge

NORCROSS, GEORGIA 30071

(770) 209-0029 FAX (770) 582-2895

www.unitedconsulting.com

2201557

PROJECT NAME: Scotts Honey Creek WWTPS		Project# ROCKW21GA05766 01				ANALYSES (indicate target list)								
TAT or DUE DATE: 2/2/22		CONTACT: dmikhaeel@unitedconsulting.com		PROJECT MANAGER: Masoud Zare		pH	Resistivity	Sulfate	Chloride	7				
PHONE#: (770)582-2843		RECEIVING LAB: AES		PO#: 013064										
SAMPLE NUMBER	SAMPLE DESCRIPTION	Date Shipped	Sample Matrix	Preserva- tive	# / Size of Cont.									
B32 @ 3.5-5'	Soil	1/26/22	S	ice	8 oz	X	X	X	X					
B36 @ 3.5-5'														
B39 @ 3.5-5'														
B43 @ 3.5-5'														
B47 @ 3.5-5'														
B51 @ 3.5-5'														
B53 @ 0-1.5'														
B55 @ 3.5-5'														
B57 @ 3.5-5'														
B60 @ 8.5-10'														
SAMPLES RELINQUISHED BY:		DATE/ TIME	SAMPLES ACCEPTED BY:			DATE/ TIME	COMMENTS:							
Walker Tortorici		1/26/22 2:13pm	Dayan Campbell			1/26/22 14:13								

SAMPLE CHAIN-OF-CUSTODY RECORD

2/2

UNITED CONSULTING
625 Holcomb Bridge
NORCROSS, GEORGIA 30071
(770) 209-0029 FAX (770) 582-2895
www.unitedconsulting.com

2201557

PROJECT NAME: Scotts & Honey Creek WWTPS				Project#: ROCK W21GA0576601		ANALYSES (indicate target list)											
TAT or DUE DATE: 2/2/22		CONTACT: dmikhaeel@unitedconsulting.com		PROJECT MANAGER: Masoud Zare		pH	Resistivity	Sulfate	Chloride								
PHONE#: (770)582-2843		RECEIVING LAB: AES		PO#: 013064													
SAMPLE NUMBER	SAMPLE DESCRIPTION	Date Shipped	Sample Matrix	Preserva- tive	# / Size of Cont.												
B1 @ 8.5-10'	Soil	1/26/22	S	Ice	8 oz	X	X	X	X								
B3 @ 3.5-5'																	
B5 @ 3.5-5'																	
B8 @ 3.5-5'																	
B13 @ 3.5-5'																	
B16 @ 3.5-5'																	
B18 @ 3.5-5'																	
B25 @ 3.5-5'																	
B21 @ 3.5-5'																	
B28 @ 3.5-5'																	
SAMPLES RELINQUISHED BY:		DATE/ TIME		SAMPLES ACCEPTED BY:		DATE/ TIME		COMMENTS:									
Walker Turtongi		1/26/22 2:13pm		Daria Campbell		1/26/22 14:13											

Client: United Consulting Group Inc.
Project: Scotts & Honey Creek WWTPS
Lab ID: 2201S57

Case Narrative

pH Analysis by Method SW9045D:

Samples for pH analysis by Method SW9045D were received and analyzed outside holding time requirement of "immediate or 15 minutes".

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-001

Client Sample ID: B32 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A					(SW9050)			
Resistivity (@100% Moisture Saturation)	16500	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.41	0.01	H	pH Units	329841	1	01/28/2022 15:54	GY
ION SCAN SW9056A					(SW9056A)			
Chloride	BRL	12		mg/Kg-dry	329844	1	02/02/2022 01:42	KV
Sulfate	27	12		mg/Kg-dry	329844	1	02/02/2022 01:42	KV
PERCENT MOISTURE D2216								
Percent Moisture	14.5	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-002

Client Sample ID: B36 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A								
					(SW9050)			
Resistivity (@100% Moisture Saturation)	19500	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D								
					(SW9045D)			
pH	5.75	0.01	H	pH Units	329841	1	01/28/2022 16:01	GY
ION SCAN SW9056A								
					(SW9056A)			
Chloride	BRL	12		mg/Kg-dry	329844	1	02/02/2022 01:53	KV
Sulfate	20	12		mg/Kg-dry	329844	1	02/02/2022 01:53	KV
PERCENT MOISTURE D2216								
Percent Moisture	20.4	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-003

Client Sample ID: B39 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A					(SW9050)			
Resistivity (@100% Moisture Saturation)	20900	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.40	0.01	H	pH Units	329841	1	01/28/2022 16:06	GY
ION SCAN SW9056A					(SW9056A)			
Chloride	BRL	13		mg/Kg-dry	329844	1	02/02/2022 02:04	KV
Sulfate	36	13		mg/Kg-dry	329844	1	02/02/2022 02:04	KV
PERCENT MOISTURE D2216								
Percent Moisture	21.1	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-004

Client Sample ID: B43 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A					(SW9050)			
Resistivity (@100% Moisture Saturation)	35900	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.76	0.01	H	pH Units	329841	1	01/28/2022 16:10	GY
ION SCAN SW9056A					(SW9056A)			
Chloride	BRL	12		mg/Kg-dry	329844	1	02/02/2022 02:14	KV
Sulfate	13	12		mg/Kg-dry	329844	1	02/02/2022 02:14	KV
PERCENT MOISTURE D2216								
Percent Moisture	17.2	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-005

Client Sample ID: B47 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A					(SW9050)			
Resistivity (@100% Moisture Saturation)	34800	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.44	0.01	H	pH Units	329841	1	01/28/2022 16:15	GY
ION SCAN SW9056A					(SW9056A)			
Chloride	14	11		mg/Kg-dry	329844	1	02/02/2022 02:25	KV
Sulfate	BRL	11		mg/Kg-dry	329844	1	02/02/2022 02:25	KV
PERCENT MOISTURE D2216								
Percent Moisture	14.1	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-006

Client Sample ID: B51 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A					(SW9050)			
Resistivity (@100% Moisture Saturation)	5420	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.99	0.01	H	pH Units	329841	1	01/28/2022 16:19	GY
ION SCAN SW9056A					(SW9056A)			
Chloride	BRL	13		mg/Kg-dry	329844	1	02/02/2022 02:36	KV
Sulfate	61	13		mg/Kg-dry	329844	1	02/02/2022 02:36	KV
PERCENT MOISTURE D2216								
Percent Moisture	23.4	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-007

Client Sample ID: B53 0-1.5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A					(SW9050)			
Resistivity (@100% Moisture Saturation)	29400	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.75	0.01	H	pH Units	329841	1	01/28/2022 16:23	GY
ION SCAN SW9056A					(SW9056A)			
Chloride	BRL	12		mg/Kg-dry	329844	1	02/02/2022 02:47	KV
Sulfate	15	12		mg/Kg-dry	329844	1	02/02/2022 02:47	KV
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-008

Client Sample ID: B55 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A					(SW9050)			
Resistivity (@100% Moisture Saturation)	12200	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.75	0.01	H	pH Units	329841	1	01/28/2022 16:28	GY
ION SCAN SW9056A					(SW9056A)			
Chloride	BRL	12		mg/Kg-dry	329844	1	02/02/2022 02:57	KV
Sulfate	37	12		mg/Kg-dry	329844	1	02/02/2022 02:57	KV
PERCENT MOISTURE D2216								
Percent Moisture	14.1	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-009

Client Sample ID: B57 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A					(SW9050)			
Resistivity (@100% Moisture Saturation)	14100	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.26	0.01	H	pH Units	329841	1	01/28/2022 16:31	GY
ION SCAN SW9056A					(SW9056A)			
Chloride	BRL	13		mg/Kg-dry	329844	1	02/02/2022 03:41	KV
Sulfate	26	13		mg/Kg-dry	329844	1	02/02/2022 03:41	KV
PERCENT MOISTURE D2216								
Percent Moisture	25.1	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-010

Client Sample ID: B60 8.5-10'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A					(SW9050)			
Resistivity (@100% Moisture Saturation)	9230	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	4.62	0.01	H	pH Units	329841	1	01/28/2022 16:34	GY
ION SCAN SW9056A					(SW9056A)			
Chloride	BRL	13		mg/Kg-dry	329844	1	02/02/2022 03:51	KV
Sulfate	45	13		mg/Kg-dry	329844	1	02/02/2022 03:51	KV
PERCENT MOISTURE D2216								
Percent Moisture	24.9	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-011

Client Sample ID: B1 8.5-10'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A								
					(SW9050)			
Resistivity (@100% Moisture Saturation)	36200	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D								
					(SW9045D)			
pH	5.13	0.01	H	pH Units	329841	1	01/28/2022 16:43	GY
ION SCAN SW9056A								
					(SW9056A)			
Chloride	BRL	13		mg/Kg-dry	329844	1	02/02/2022 04:02	KV
Sulfate	20	13		mg/Kg-dry	329844	1	02/02/2022 04:02	KV
PERCENT MOISTURE D2216								
Percent Moisture	25.3	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-012

Client Sample ID: B3 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A					(SW9050)			
Resistivity (@100% Moisture Saturation)	34400	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.37	0.01	H	pH Units	329841	1	01/28/2022 16:51	GY
ION SCAN SW9056A					(SW9056A)			
Chloride	BRL	12		mg/Kg-dry	329844	1	02/02/2022 04:13	KV
Sulfate	17	12		mg/Kg-dry	329844	1	02/02/2022 04:13	KV
PERCENT MOISTURE D2216								
Percent Moisture	16.3	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-013

Client Sample ID: B5 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A								
					(SW9050)			
Resistivity (@100% Moisture Saturation)	21200	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D								
					(SW9045D)			
pH	5.23	0.01	H	pH Units	329841	1	01/28/2022 16:56	GY
ION SCAN SW9056A								
					(SW9056A)			
Chloride	16	13		mg/Kg-dry	329844	1	02/02/2022 04:24	KV
Sulfate	14	13		mg/Kg-dry	329844	1	02/02/2022 04:24	KV
PERCENT MOISTURE D2216								
Percent Moisture	21.2	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-014

Client Sample ID: B8 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A					(SW9050)			
Resistivity (@100% Moisture Saturation)	41400	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.51	0.01	H	pH Units	329841	1	01/28/2022 17:01	GY
ION SCAN SW9056A					(SW9056A)			
Chloride	BRL	12		mg/Kg-dry	329844	1	02/02/2022 04:34	KV
Sulfate	23	12		mg/Kg-dry	329844	1	02/02/2022 04:34	KV
PERCENT MOISTURE D2216								
Percent Moisture	16.0	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-015

Client Sample ID: B13 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A (SW9050)								
Resistivity (@100% Moisture Saturation)	7600	0		ohms*cm	329823	1	01/28/2022 12:47	GY
Laboratory Hydrogen Ion (pH) SW9045D (SW9045D)								
pH	7.31	0.01	H	pH Units	329841	1	01/28/2022 17:04	GY
ION SCAN SW9056A (SW9056A)								
Chloride	BRL	12		mg/Kg-dry	329844	1	02/02/2022 04:45	KV
Sulfate	140	12		mg/Kg-dry	329844	1	02/02/2022 04:45	KV
PERCENT MOISTURE D2216								
Percent Moisture	16.7	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-016

Client Sample ID: B16 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A					(SW9050)			
Resistivity (@100% Moisture Saturation)	11500	0		ohms*cm	329825	1	01/28/2022 13:08	GY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	4.98	0.01	H	pH Units	329841	1	01/28/2022 17:10	GY
ION SCAN SW9056A					(SW9056A)			
Chloride	12	12		mg/Kg-dry	329844	1	02/02/2022 04:56	KV
Sulfate	BRL	12		mg/Kg-dry	329844	1	02/02/2022 04:56	KV
PERCENT MOISTURE D2216								
Percent Moisture	16.7	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-017

Client Sample ID: B18 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A								
					(SW9050)			
Resistivity (@100% Moisture Saturation)	9470	0		ohms*cm	329825	1	01/28/2022 13:08	GY
Laboratory Hydrogen Ion (pH) SW9045D								
					(SW9045D)			
pH	5.83	0.01	H	pH Units	329841	1	01/28/2022 17:13	GY
ION SCAN SW9056A								
					(SW9056A)			
Chloride	BRL	13		mg/Kg-dry	329844	1	02/02/2022 05:07	KV
Sulfate	17	13		mg/Kg-dry	329844	1	02/02/2022 05:07	KV
PERCENT MOISTURE D2216								
Percent Moisture	21.4	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-018

Client Sample ID: B25 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A								
					(SW9050)			
Resistivity (@100% Moisture Saturation)	26200	0		ohms*cm	329825	1	01/28/2022 13:08	GY
Laboratory Hydrogen Ion (pH) SW9045D								
					(SW9045D)			
pH	5.38	0.01	H	pH Units	329841	1	01/28/2022 17:18	GY
ION SCAN SW9056A								
					(SW9056A)			
Chloride	14	12		mg/Kg-dry	329844	1	02/02/2022 05:18	KV
Sulfate	16	12		mg/Kg-dry	329844	1	02/02/2022 05:18	KV
PERCENT MOISTURE D2216								
Percent Moisture	19.1	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-019

Client Sample ID: B21 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A					(SW9050)			
Resistivity (@100% Moisture Saturation)	15300	0		ohms*cm	329825	1	01/28/2022 13:08	GY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	5.34	0.01	H	pH Units	329841	1	01/28/2022 17:21	GY
ION SCAN SW9056A					(SW9056A)			
Chloride	BRL	11		mg/Kg-dry	329844	1	02/02/2022 06:01	KV
Sulfate	32	11		mg/Kg-dry	329844	1	02/02/2022 06:01	KV
PERCENT MOISTURE D2216								
Percent Moisture	12.2	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S57-020

Client Sample ID: B28 3.5-5'
Collection Date: 1/26/2022
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Soil Resistivity SW9050A								
					(SW9050)			
Resistivity (@100% Moisture Saturation)	27700	0		ohms*cm	329825	1	01/28/2022 13:08	GY
Laboratory Hydrogen Ion (pH) SW9045D								
					(SW9045D)			
pH	5.84	0.01	H	pH Units	329841	1	01/28/2022 17:25	GY
ION SCAN SW9056A								
					(SW9056A)			
Chloride	BRL	14		mg/Kg-dry	329844	1	02/02/2022 06:12	KV
Sulfate	34	14		mg/Kg-dry	329844	1	02/02/2022 06:12	KV
PERCENT MOISTURE D2216								
Percent Moisture	28.1	0		wt%	R475983	1	01/27/2022 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

Clear

Save as

1. Client Name: **United Consulting Group Inc.**

AES Work Order Number: **2201S57**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ Courier ☐ Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	☒	☐	☐	damaged ☐ leaking ☐ other ☐	
4. Custody seals present on shipping container?	☐	☒	☐		
5. Custody seals intact on shipping container?	☐	☐	☒		
6. Temperature blanks present?	☐	☒	☐		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	☒	☐	☐	Cooling initiated for recently collected samples / ice present ☐	
8. Chain of Custody (COC) present?	☒	☐	☐		
9. Chain of Custody signed, dated, and timed when relinquished and received?	☒	☐	☐		
10. Sampler name and/or signature on COC?	☒	☐	☐		
11. Were all samples received within holding time?	☐	☒	☐		
12. TAT marked on the COC?	☒	☐	☐	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 4.8 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials).

CP 1/26/2022

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	☒	☐	☐		
17. Custody seals present on sample containers?	☐	☒	☐		
18. Custody seals intact on sample containers?	☐	☐	☒		
19. Do sample container labels match the COC?	☒	☐	☐	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20. Are analyses requested indicated on the COC?	☒	☐	☐		
21. Were all of the samples listed on the COC received?	☒	☐	☐	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22. Was the sample collection date/time noted?	☒	☐	☐		
23. Did we receive sufficient sample volume for indicated analyses?	☒	☐	☐		
24. Were samples received in appropriate containers?	☒	☐	☐		
25. Were VOA samples received without headspace (< 1/4" bubble)?	☐	☐	☒		
26. Were trip blanks submitted?	☐	☐	☒	listed on COC ☐ not listed on COC ☐	

27. Comments: _____

This section only applies to samples where pH can be checked at Sample Receipt.

I certify that I have completed sections 16-27 (dated initials).

CW 1/26/22

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	☐	☐	☒		
29. Containers meet preservation guidelines?	☐	☐	☒		
30. Was pH adjusted at Sample Receipt?	☐	☐	☒		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

I certify that I have completed sections 28-30 (dated initials).

CW 1/26/22

Locked

Client: United Consulting Group Inc.
 Project Name: Scotts & Honey Creek WWTPS
 Lab Order: 2201S57

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2201S57-001A	B32 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-001A	B32 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-001A	B32 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-001A	B32 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-002A	B36 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-002A	B36 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-002A	B36 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-002A	B36 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-003A	B39 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-003A	B39 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-003A	B39 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-003A	B39 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-004A	B43 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-004A	B43 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-004A	B43 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-004A	B43 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-005A	B47 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-005A	B47 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-005A	B47 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-005A	B47 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-006A	B51 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-006A	B51 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-006A	B51 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-006A	B51 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-007A	B53 0-1.5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-007A	B53 0-1.5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-007A	B53 0-1.5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-007A	B53 0-1.5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-008A	B55 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022

Client: United Consulting Group Inc.
 Project Name: Scotts & Honey Creek WWTPS
 Lab Order: 2201S57

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2201S57-008A	B55 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-008A	B55 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-008A	B55 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-009A	B57 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-009A	B57 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-009A	B57 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-009A	B57 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-010A	B60 8.5-10'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-010A	B60 8.5-10'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-010A	B60 8.5-10'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-010A	B60 8.5-10'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-011A	B1 8.5-10'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-011A	B1 8.5-10'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-011A	B1 8.5-10'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-011A	B1 8.5-10'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-012A	B3 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-012A	B3 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-012A	B3 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-012A	B3 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-013A	B5 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-013A	B5 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-013A	B5 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-013A	B5 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-014A	B8 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-014A	B8 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-014A	B8 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-014A	B8 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-015A	B13 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-015A	B13 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022

Client: United Consulting Group Inc.
 Project Name: Scotts & Honey Creek WWTPS
 Lab Order: 2201S57

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2201S57-015A	B13 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-015A	B13 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-016A	B16 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-016A	B16 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-016A	B16 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-016A	B16 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-017A	B18 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-017A	B18 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-017A	B18 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-017A	B18 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-018A	B25 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-018A	B25 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-018A	B25 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-018A	B25 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-019A	B21 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-019A	B21 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-019A	B21 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-019A	B21 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022
2201S57-020A	B28 3.5-5'	1/26/2022 12:00:00AM	Soil	Laboratory Hydrogen Ion (pH)		1/28/2022 9:14:00AM	01/28/2022
2201S57-020A	B28 3.5-5'	1/26/2022 12:00:00AM	Soil	Soil Resistivity		1/27/2022 4:18:00PM	01/28/2022
2201S57-020A	B28 3.5-5'	1/26/2022 12:00:00AM	Soil	ION SCAN		1/28/2022 5:19:52PM	02/02/2022
2201S57-020A	B28 3.5-5'	1/26/2022 12:00:00AM	Soil	PERCENT MOISTURE			01/27/2022

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Workorder: 2201S57

ANALYTICAL QC SUMMARY REPORT

BatchID: 329823

Sample ID: LCS-329823		Client ID:			Units: ohms*cm			Prep Date: 01/27/2022		Run No: 476146	
SampleType: LCS		TestCode: Soil Resistivity SW9050A			BatchID: 329823			Analysis Date: 01/28/2022		Seq No: 10988649	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Resistivity (@100% Moisture Saturatic 10020 0 10000 100 90 110

Sample ID: 2201S57-001ADUP		Client ID: B32 3.5-5'		Units: ohms*cm		Prep Date: 01/27/2022		Run No: 476146			
SampleType: DUP		TestCode: Soil Resistivity SW9050A		BatchID: 329823		Analysis Date: 01/28/2022		Seq No: 10988683			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Resistivity (@100% Moisture Saturatic 16430 0 16460 0.186 30

Sample ID: 2201S57-011ADUP		Client ID: B1 8.5-10'				Units: ohms*cm		Prep Date: 01/27/2022		Run No: 476146	
SampleType: DUP		TestCode: Soil Resistivity SW9050A				BatchID: 329823		Analysis Date: 01/28/2022		Seq No: 10988694	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Resistivity (@100% Moisture Saturatic 36010 0 36150 0.397 30

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Workorder: 2201S57

ANALYTICAL QC SUMMARY REPORT

BatchID: 329825

Sample ID: LCS-329825	Client ID:	Units: ohms*cm				Prep Date: 01/27/2022	Run No: 476148				
SampleType: LCS	TestCode: Soil Resistivity SW9050A	BatchID: 329825				Analysis Date: 01/28/2022	Seq No: 10988710				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Resistivity (@100% Moisture Saturatic 10190 0 10000 102 90 110

Sample ID: 2201S57-016ADUP					Client ID: B16 3.5-5'			Units: ohms*cm		Prep Date: 01/27/2022		Run No: 476148				
SampleType: DUP					TestCode: Soil Resistivity SW9050A			BatchID: 329825		Analysis Date: 01/28/2022		Seq No: 10988711				
Analyte					Result		RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Resistivity (@100% Moisture Saturatic 12610 0 11530 8.92 30

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Workorder: 2201S57

ANALYTICAL QC SUMMARY REPORT

BatchID: 329841

Sample ID: LCS-329841	Client ID:	Units: pH Units				Prep Date: 01/28/2022	Run No: 476166				
SampleType: LCS	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 329841				Analysis Date: 01/28/2022	Seq No: 10989823				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.012 0.01 7.000 100 90 110

Sample ID: 2201S57-001ADUP	Client ID: B32 3.5-5'	Units: pH Units			Prep Date: 01/28/2022	Run No: 476166					
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 329841			Analysis Date: 01/28/2022	Seq No: 10989826					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 5.400 0.01 5.409 0.167 10 H

Sample ID: 2201S57-011ADUP	Client ID: B1 8.5-10'	Units: pH Units			Prep Date: 01/28/2022	Run No: 476166					
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 329841			Analysis Date: 01/28/2022	Seq No: 10989839					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 5.130 0.01 5.131 0.020 10 H

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Workorder: 2201S57

ANALYTICAL QC SUMMARY REPORT**BatchID: 329844**

Sample ID: MB-329844	Client ID:	Units: mg/Kg	Prep Date: 01/28/2022	Run No: 476571							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: 329844	Analysis Date: 02/02/2022	Seq No: 11000882							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride BRL 10
Sulfate BRL 10

Sample ID: LCS-329844	Client ID:				Units: mg/Kg	Prep Date: 01/28/2022	Run No: 476571				
SampleType: LCS	TestCode: ION SCAN SW9056A				BatchID: 329844	Analysis Date: 02/02/2022	Seq No: 11000883				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 92.26 10 100.0 92.3 90 110
Sulfate 240.1 10 250.0 96.0 90 110

Sample ID: 2201S57-010AMS	Client ID: B60 8.5-10'	Units: mg/Kg-dry	Prep Date: 01/28/2022	Run No: 476571							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: 329844	Analysis Date: 02/02/2022	Seq No: 11000908							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 129.0 13 132.9 10.42 89.2 80 120
Sulfate 353.7 13 332.2 45.08 92.9 80 120

Sample ID: 2201S57-014AMS	Client ID: B8 3.5-5'	Units: mg/Kg-dry	Prep Date: 01/28/2022	Run No: 476571							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: 329844	Analysis Date: 02/02/2022	Seq No: 11000910							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 109.8 12 117.8 93.2 80 120
Sulfate 331.8 12 294.5 23.04 105 80 120

Sample ID: 2201S57-010AMSD	Client ID: B60 8.5-10'				Units: mg/Kg-dry	Prep Date: 01/28/2022	Run No: 476571				
SampleType: MSD	TestCode: ION SCAN SW9056A				BatchID: 329844	Analysis Date: 02/02/2022	Seq No: 11000909				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 128.8 13 131.3 10.42 90.2 80 120 129.0 0.128 20

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Workorder: 2201S57

ANALYTICAL QC SUMMARY REPORT

BatchID: 329844

Sample ID: 2201S57-010AMSD		Client ID: B60 8.5-10'				Units: mg/Kg-dry		Prep Date: 01/28/2022		Run No: 476571	
SampleType: MSD		TestCode: ION SCAN SW9056A				BatchID: 329844		Analysis Date: 02/02/2022		Seq No: 11000909	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	358.2	13	328.3	45.08	95.4	80	120	353.7	1.25	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 03, 2022

Dina Mikhaeel
United Consulting Group Inc.

625 Holcomb Bridge Rd
Norcross GA 30071

RE: Scotts & Honey Creek WWTPS

Dear Dina Mikhaeel:

Order No: 2201S56

Analytical Environmental Services, Inc. received 4 samples on 1/26/2022 2:13:00 PM
for the analyses presented in following report.

“No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.

AES’s accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/21-06/30/22.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/23.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar
Project Manager

SAMPLE CHAIN-OF-CUSTODY RECORD

UNITED CONSULTING

625 Holcomb Bridge

NORCROSS, GEORGIA 30071

(770) 209-0029 FAX (770) 582-2895

www.uniteaconsulting.com

2201556

PROJECT NAME: Scotts & Honey Creek WWTPS		Project# ROCKW21GA0576601				ANALYSES (indicate target list)											
TAT or DUE DATE: 2/2/22	CONTACT: dmikhaeel@unitedconsulting.com	PROJECT MANAGER: Masoud Zare				pH	Resistivity	Sulfate	Chloride								
PHONE#: (770)582-2843	RECEIVING LAB: AES			PO#: 013064													
SAMPLE NUMBER	SAMPLE DESCRIPTION	Date Shipped	Sample Matrix	Preservative	# / Size of Cont.												
B1 (W1)	water	1/26/22	W	ICE	3 oz	X	X	X	X								
B1 (W3)	↓	↓	↓	↓	↓	↓	↓	↓	↓								
B-57 (W4)	↓	↓	↓	↓	↓	↓	↓	↓	↓								
B57 (W6)	↓	↓	↓	↓	↓	↓	↓	↓	↓								
SAMPLES RELINQUISHED BY:		DATE/TIME	SAMPLES ACCEPTED BY:			DATE/TIME	COMMENTS:										
Walker Tortorici		1/26/22	2:13pm			1/26/22	14:13										

Client: United Consulting Group Inc.
Project: Scotts & Honey Creek WWTPS
Lab ID: 2201S56

Case Narrative

pH Analysis by Method E150.1/SM4500 H+ B:

Samples for pH analysis by Method E150.1/SM4500 H+ B were received and analyzed outside holding time requirement of "immediate or 15 minutes."

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S56-001

Client Sample ID: B1 (W1)
Collection Date: 1/26/2022
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Resistivity SW9050A								
Resistivity (@100% Moisture Saturation)	14900	0		ohms-cm	R476246	1	01/31/2022 12:15	GY
Inorganic Anions by IC E300.0								
Chloride	4.63	1.00		mg/L	R476518	1	02/01/2022 23:00	KV
Sulfate	2.70	1.00		mg/L	R476518	1	02/01/2022 23:00	KV
Hydrogen Ion (pH) by SM4500H+B								
pH	6.04	0.0100	H	pH Units	R476095	1	01/27/2022 16:10	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S56-002

Client Sample ID: B1 (W3)
Collection Date: 1/26/2022
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Resistivity SW9050A								
Resistivity (@100% Moisture Saturation)	1820	0		ohms-cm	R476246	1	01/31/2022 12:15	GY
Inorganic Anions by IC E300.0								
Chloride	23.6	1.00		mg/L	R476518	1	02/01/2022 23:11	KV
Sulfate	117	10.0		mg/L	R476518	10	02/02/2022 12:18	KV
Hydrogen Ion (pH) by SM4500H+B								
pH	6.47	0.0100	H	pH Units	R476095	1	01/27/2022 16:12	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S56-003

Client Sample ID: B57 (W4)
Collection Date: 1/26/2022
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Resistivity SW9050A								
Resistivity (@100% Moisture Saturation)	13600	0		ohms-cm	R476246	1	01/31/2022 12:15	GY
Inorganic Anions by IC E300.0								
Chloride	5.26	1.00		mg/L	R476518	1	02/01/2022 23:22	KV
Sulfate	2.67	1.00		mg/L	R476518	1	02/01/2022 23:22	KV
Hydrogen Ion (pH) by SM4500H+B								
pH	6.91	0.0100	H	pH Units	R476095	1	01/27/2022 16:13	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab ID: 2201S56-004

Client Sample ID: B57 (W6)
Collection Date: 1/26/2022
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Resistivity SW9050A								
Resistivity (@100% Moisture Saturation)	13700	0		ohms-cm	R476246	1	01/31/2022 12:15	GY
Inorganic Anions by IC E300.0								
Chloride	5.24	1.00		mg/L	R476518	1	02/01/2022 23:32	KV
Sulfate	2.42	1.00		mg/L	R476518	1	02/01/2022 23:32	KV
Hydrogen Ion (pH) by SM4500H+B								
pH	6.86	0.0100	H	pH Units	R476095	1	01/27/2022 16:15	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

Clear

Save as

1. Client Name: **United Consulting Group Inc.**

AES Work Order Number: **2201S56**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ Courier ☐ Other ☐

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	☒	☐	☐	damaged ☐ leaking ☐ other ☐	
4. Custody seals present on shipping container?	☐	☒	☐		
5. Custody seals intact on shipping container?	☐	☐	☒		
6. Temperature blanks present?	☐	☒	☐		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	☒	☐	☐	Cooling initiated for recently collected samples / ice present ☐	
8. Chain of Custody (COC) present?	☒	☐	☐		
9. Chain of Custody signed, dated, and timed when relinquished and received?	☒	☐	☐		
10. Sampler name and/or signature on COC?	☒	☐	☐		
11. Were all samples received within holding time?	☐	☒	☐		
12. TAT marked on the COC?	☒	☐	☐	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 5.8 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials).

CP 1/26/2022

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	☒	☐	☐		
17. Custody seals present on sample containers?	☐	☒	☐		
18. Custody seals intact on sample containers?	☐	☐	☒		
19. Do sample container labels match the COC?	☒	☐	☐	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20. Are analyses requested indicated on the COC?	☒	☐	☐		
21. Were all of the samples listed on the COC received?	☒	☐	☐	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22. Was the sample collection date/time noted?	☒	☐	☐		
23. Did we receive sufficient sample volume for indicated analyses?	☒	☐	☐		
24. Were samples received in appropriate containers?	☒	☐	☐		
25. Were VOA samples received without headspace (< 1/4" bubble)?	☐	☐	☒		
26. Were trip blanks submitted?	☐	☐	☒	listed on COC ☐ not listed on COC ☐	

27. Comments: _____

This section only applies to samples where pH can be checked at Sample Receipt.

I certify that I have completed sections 16-27 (dated initials).

CW 1/26/22

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	☐	☐	☒		
29. Containers meet preservation guidelines?	☐	☐	☒		
30. Was pH adjusted at Sample Receipt?	☐	☐	☒		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

I certify that I have completed sections 28-30 (dated initials).

CW 1/26/22

Locked

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Lab Order: 2201S56

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2201S56-001A	B1 (W1)	1/26/2022 12:00:00AM	Aqueous	Inorganic Anions by IC			02/01/2022
2201S56-001A	B1 (W1)	1/26/2022 12:00:00AM	Aqueous	Resistivity			01/31/2022
2201S56-001A	B1 (W1)	1/26/2022 12:00:00AM	Aqueous	Hydrogen Ion (pH) by SM4500 H+ B			01/27/2022
2201S56-002A	B1 (W3)	1/26/2022 12:00:00AM	Aqueous	Inorganic Anions by IC			02/01/2022
2201S56-002A	B1 (W3)	1/26/2022 12:00:00AM	Aqueous	Inorganic Anions by IC			02/02/2022
2201S56-002A	B1 (W3)	1/26/2022 12:00:00AM	Aqueous	Resistivity			01/31/2022
2201S56-002A	B1 (W3)	1/26/2022 12:00:00AM	Aqueous	Hydrogen Ion (pH) by SM4500 H+ B			01/27/2022
2201S56-003A	B57 (W4)	1/26/2022 12:00:00AM	Aqueous	Inorganic Anions by IC			02/01/2022
2201S56-003A	B57 (W4)	1/26/2022 12:00:00AM	Aqueous	Resistivity			01/31/2022
2201S56-003A	B57 (W4)	1/26/2022 12:00:00AM	Aqueous	Hydrogen Ion (pH) by SM4500 H+ B			01/27/2022
2201S56-004A	B57 (W6)	1/26/2022 12:00:00AM	Aqueous	Inorganic Anions by IC			02/01/2022
2201S56-004A	B57 (W6)	1/26/2022 12:00:00AM	Aqueous	Resistivity			01/31/2022
2201S56-004A	B57 (W6)	1/26/2022 12:00:00AM	Aqueous	Hydrogen Ion (pH) by SM4500 H+ B			01/27/2022

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Workorder: 2201S56

ANALYTICAL QC SUMMARY REPORT

BatchID: R476095

Sample ID: LCS-R476095	Client ID:	Units: pH Units				Prep Date:		Run No: 476095			
SampleType: LCS	TestCode: Hydrogen Ion (pH) by SM4500H+B	BatchID: R476095				Analysis Date: 01/27/2022		Seq No: 10986767			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.056 0.0100 7.000 101 90 110

Sample ID: 2201Q68-002BDUP	Client ID:	Units: pH Units				Prep Date:			Run No: 476095		
SampleType: DUP	TestCode: Hydrogen Ion (pH) by SM4500H+B	BatchID: R476095				Analysis Date: 01/27/2022			Seq No: 10986772		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 6.701 0.0100 6.640 0.918 20

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Workorder: 2201S56

ANALYTICAL QC SUMMARY REPORT

BatchID: R476246

Sample ID: LCS-R476246	Client ID:					Units: ohms-cm	Prep Date:		Run No: 476246		
SampleType: LCS	TestCode: Resistivity	SW9050A				BatchID: R476246	Analysis Date: 01/31/2022		Seq No: 10992090		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Resistivity (@100% Moisture Saturatic 10170 0 10000 102 90 110

Sample ID: 2201S56-001ADUP		Client ID: B1 (W1)				Units: ohms-cm		Prep Date:		Run No: 476246	
SampleType: DUP		TestCode: Resistivity SW9050A				BatchID: R476246		Analysis Date: 01/31/2022		Seq No: 10992096	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Resistivity (@100% Moisture Saturatic 14960 0 14940 0.135 20

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Workorder: 2201S56

ANALYTICAL QC SUMMARY REPORT**BatchID: R476518**

Sample ID: MB-R476518	Client ID:					Units: mg/L	Prep Date:		Run No: 476518		
SampleType: MBLK	TestCode: Inorganic Anions by IC E300.0					BatchID: R476518	Analysis Date: 02/01/2022		Seq No: 10999437		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride BRL 1.00
Sulfate BRL 1.00

Sample ID: LCS-R476518	Client ID:					Units: mg/L	Prep Date:			Run No: 476518	
SampleType: LCS	TestCode: Inorganic Anions by IC E300.0					BatchID: R476518	Analysis Date: 02/01/2022			Seq No: 10999436	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 9.732 1.00 10.00 97.3 90 110
Sulfate 25.70 1.00 25.00 103 90 110

Sample ID: 2201O31-009EMS	Client ID:					Units: mg/L	Prep Date:		Run No: 476518		
SampleType: MS	TestCode: Inorganic Anions by IC E300.0					BatchID: R476518	Analysis Date: 02/02/2022		Seq No: 10999459		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 9.679 1.00 10.00 1.469 82.1 90 110 S
Sulfate 24.21 1.00 25.00 1.611 90.4 90 110

Sample ID: 2201O31-028EMS	Client ID:					Units: mg/L	Prep Date:		Run No: 476518		
SampleType: MS	TestCode: Inorganic Anions by IC E300.0					BatchID: R476518	Analysis Date: 02/02/2022		Seq No: 10999461		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 9.625 1.00 10.00 1.447 81.8 90 110 S
Sulfate 25.11 1.00 25.00 2.331 91.1 90 110

Sample ID: 2201O31-009EMSD		Client ID:			Units: mg/L		Prep Date:		Run No: 476518		
SampleType: MSD		TestCode: Inorganic Anions by IC E300.0			BatchID: R476518		Analysis Date: 02/02/2022		Seq No: 10999460		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 9.642 1.00 10.00 1.469 81.7 90 110 9.679 0.374 20 S

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: United Consulting Group Inc.
Project Name: Scotts & Honey Creek WWTPS
Workorder: 2201S56

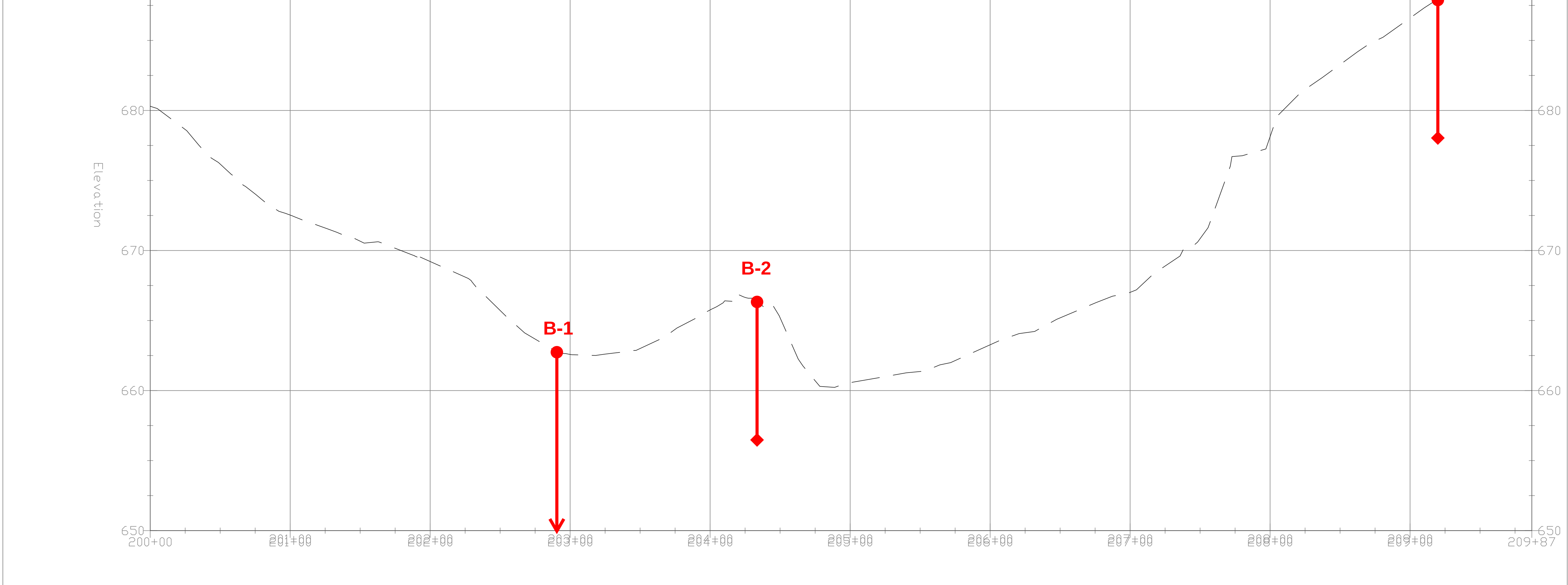
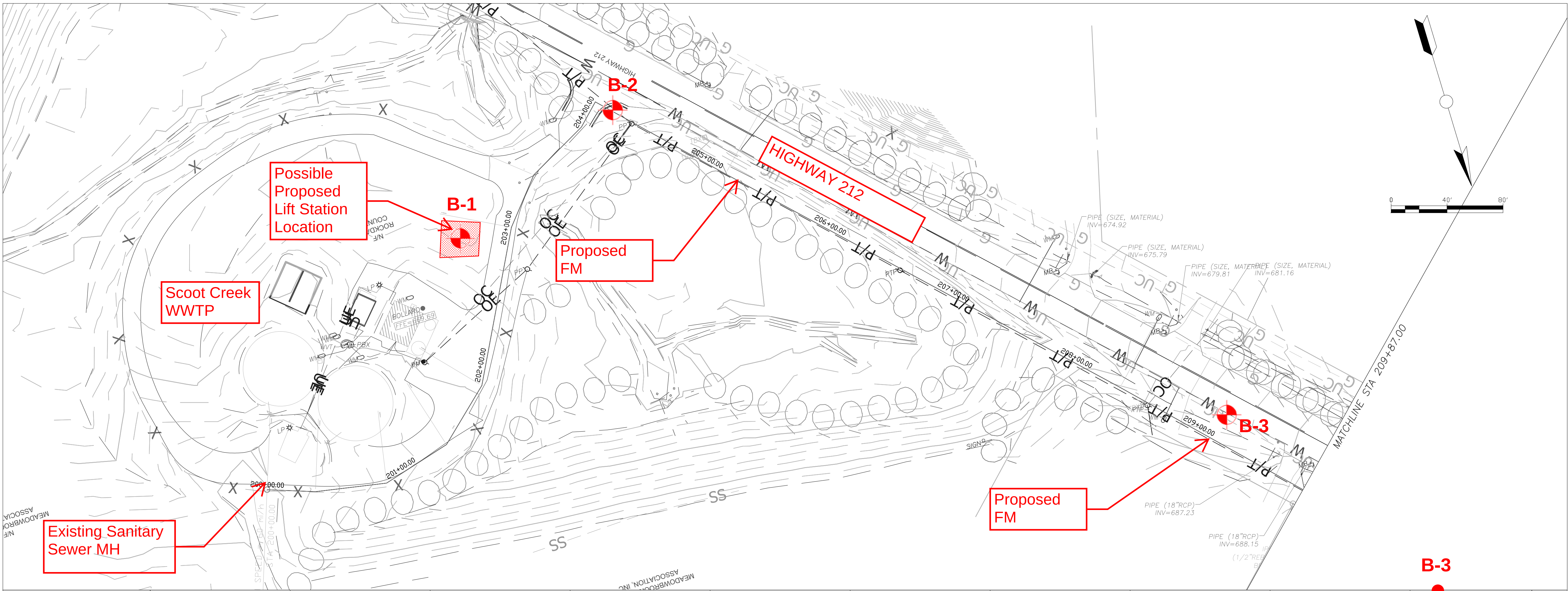
ANALYTICAL QC SUMMARY REPORT

BatchID: R476518

Sample ID: 2201O31-009EMSD		Client ID:				Units: mg/L		Prep Date:		Run No: 476518	
SampleType: MSD		TestCode: Inorganic Anions by IC E300.0				BatchID: R476518		Analysis Date: 02/02/2022		Seq No: 10999460	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	24.37	1.00	25.00	1.611	91.0	90	110	24.21	0.661	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report



General Notes

Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.

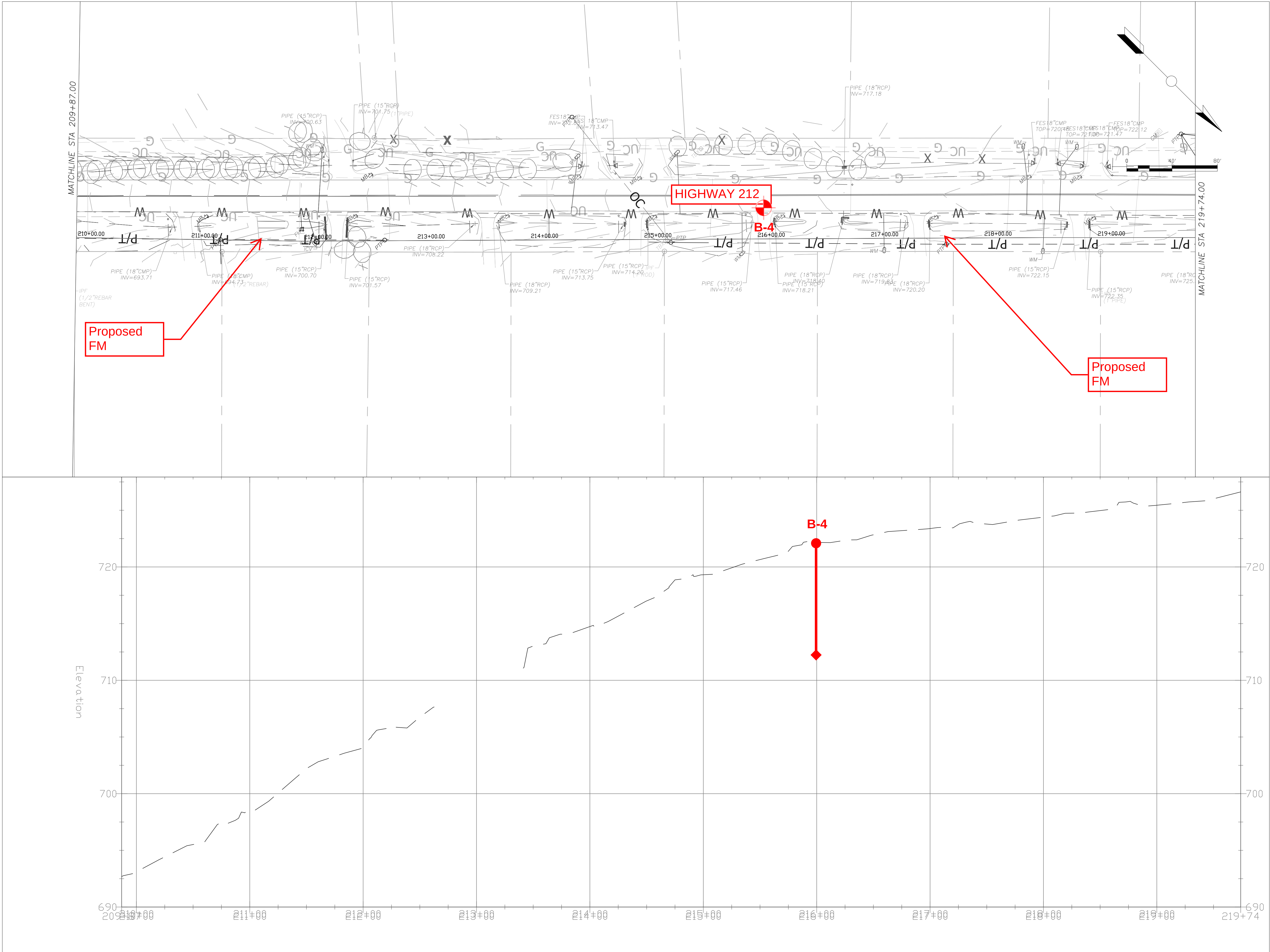
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Value
Value
Value
Value

Project	Value	Sheet
Date	11/18/2021	1
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

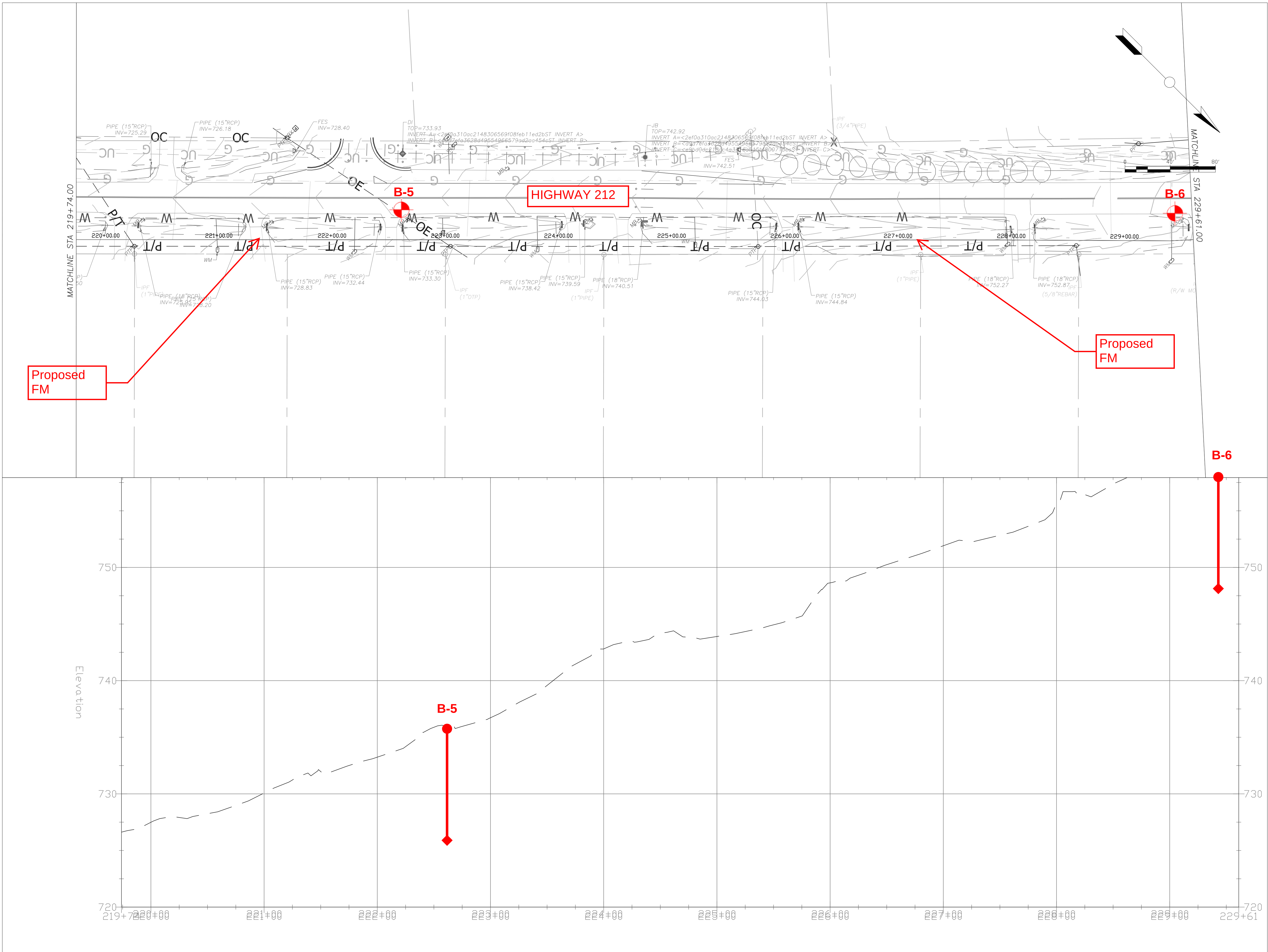
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

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Value
Value
Value

Project	Value	Sheet
Date	11/18/2021	2
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

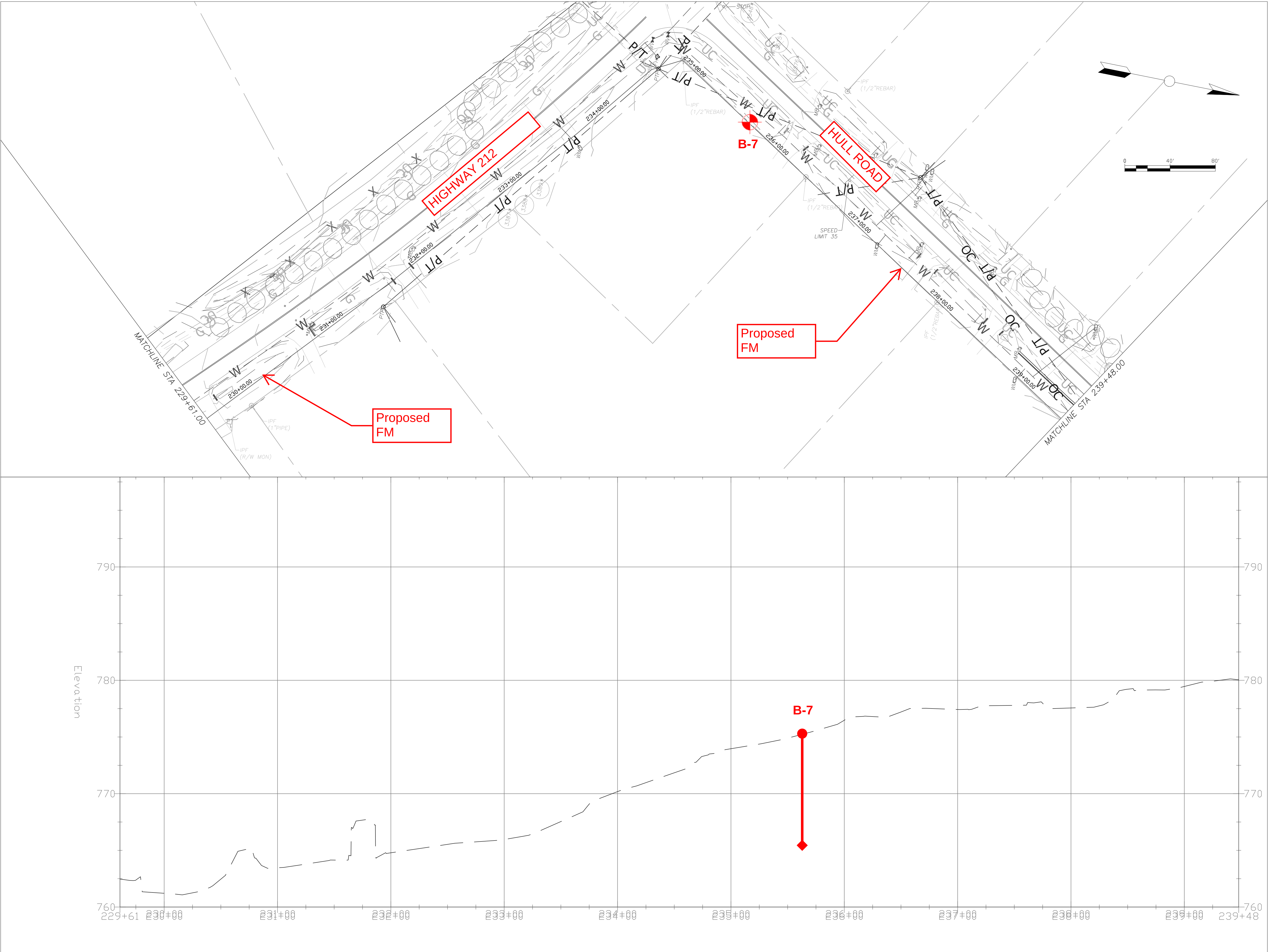
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

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Value
Value

Project	Value	Sheet
Date	11/18/2021	3
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

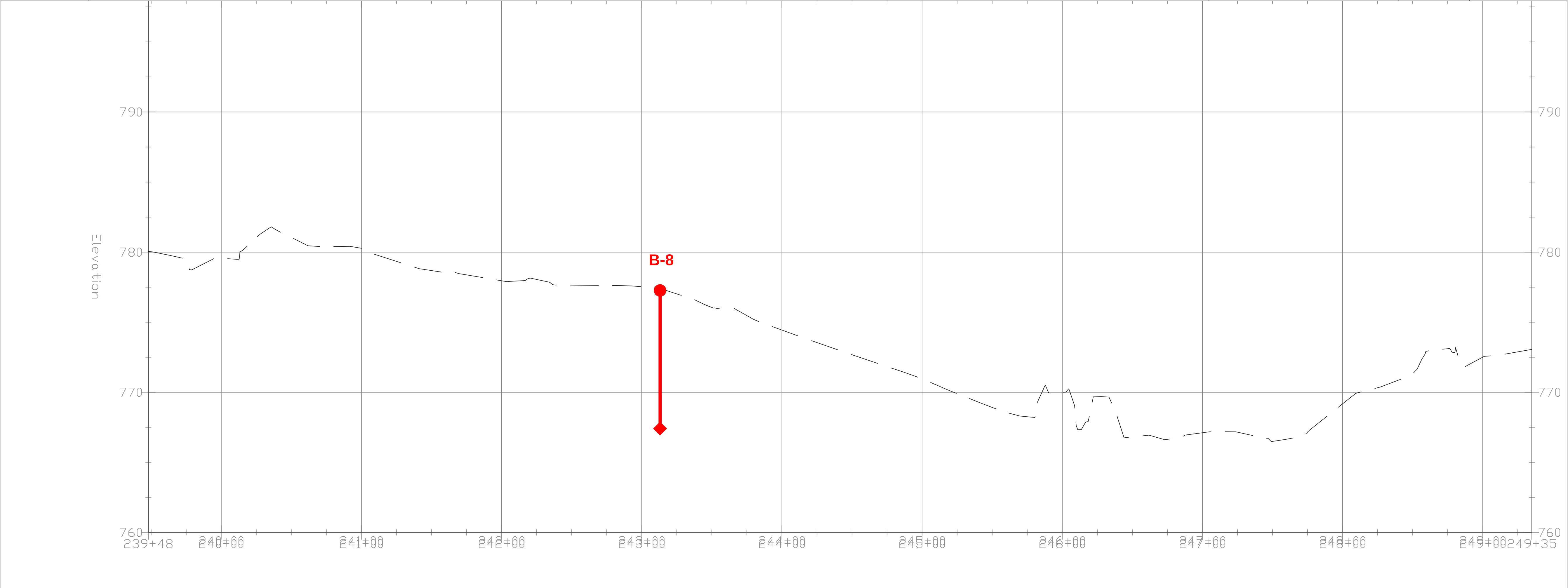
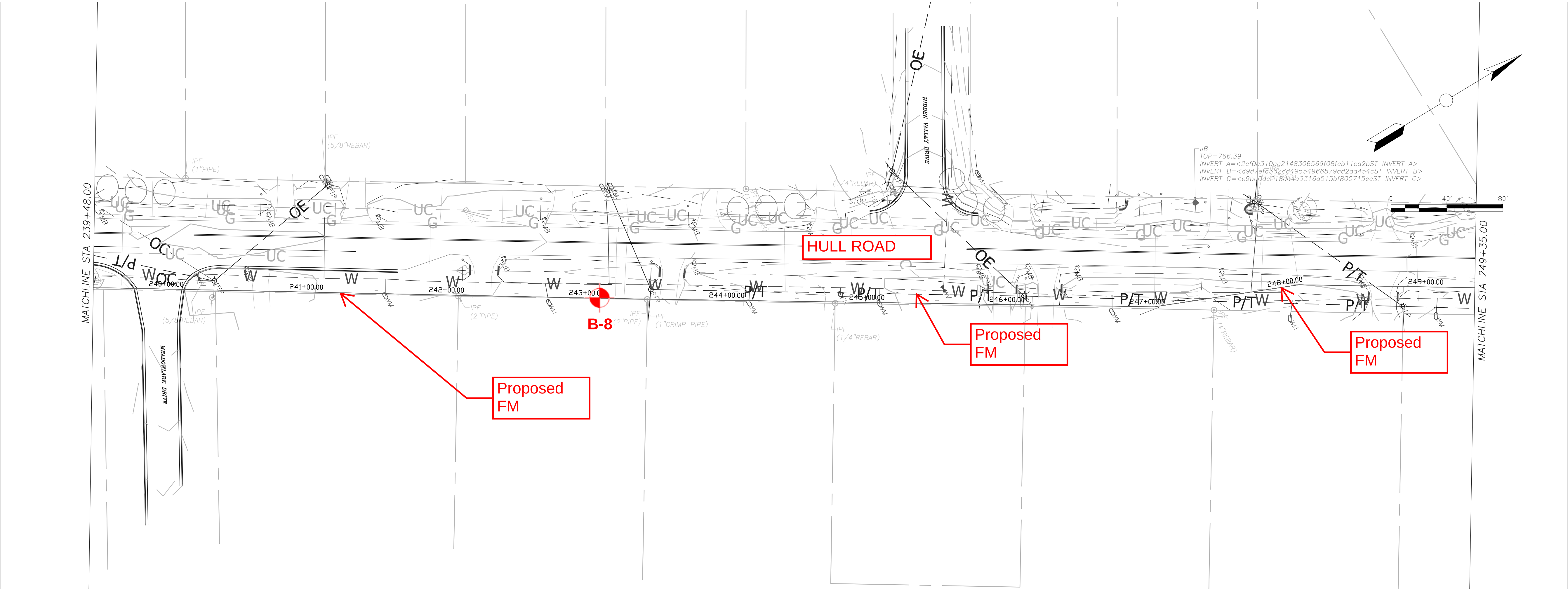
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Value
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Value
Value

Project	Value	Sheet
Date	11/18/2021	4
Scale	1" = 40'	



General Notes

Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.

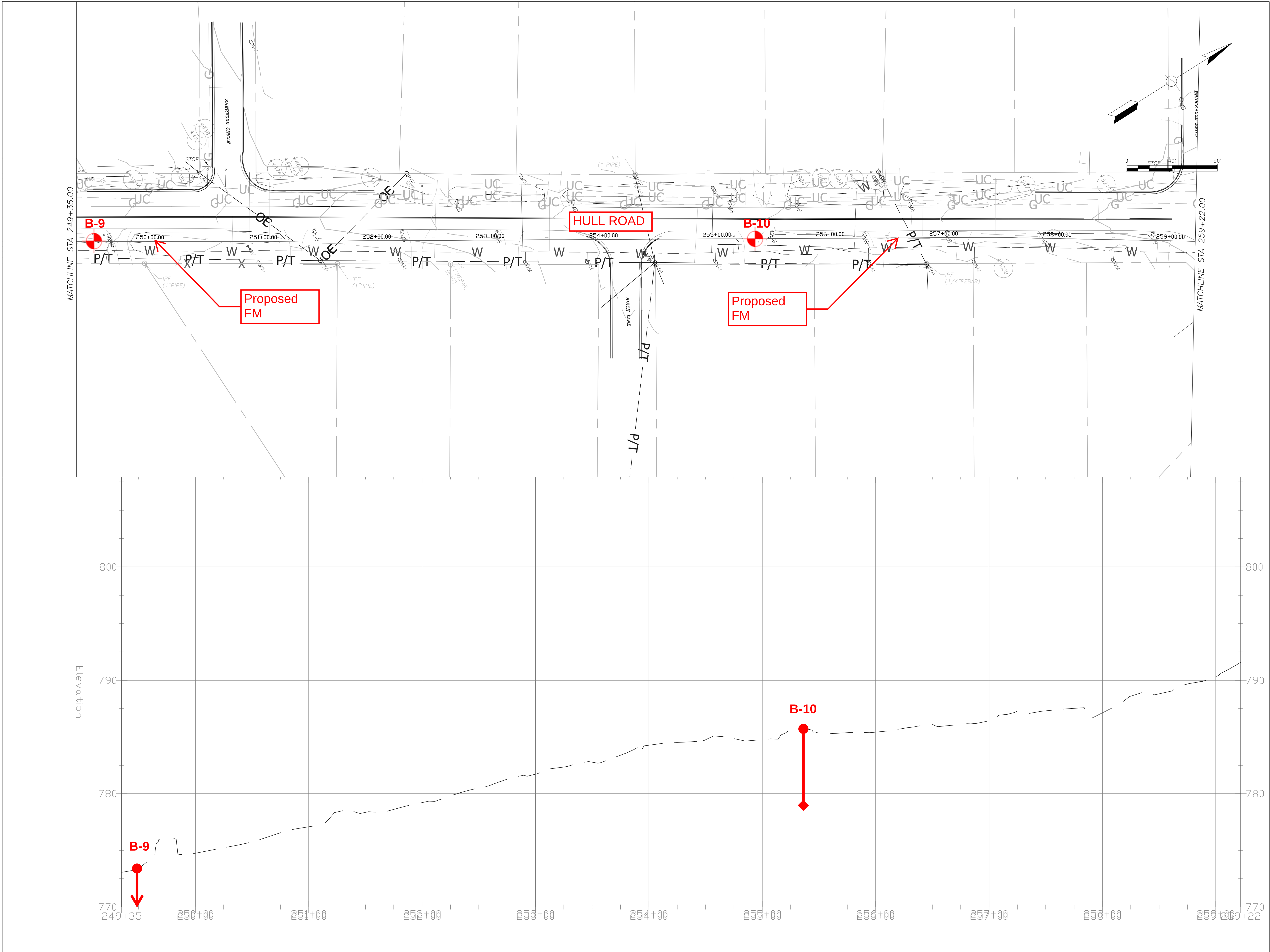
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Value
Value
Value
Value

Project	Value	Sheet
Date	11/18/2021	5
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

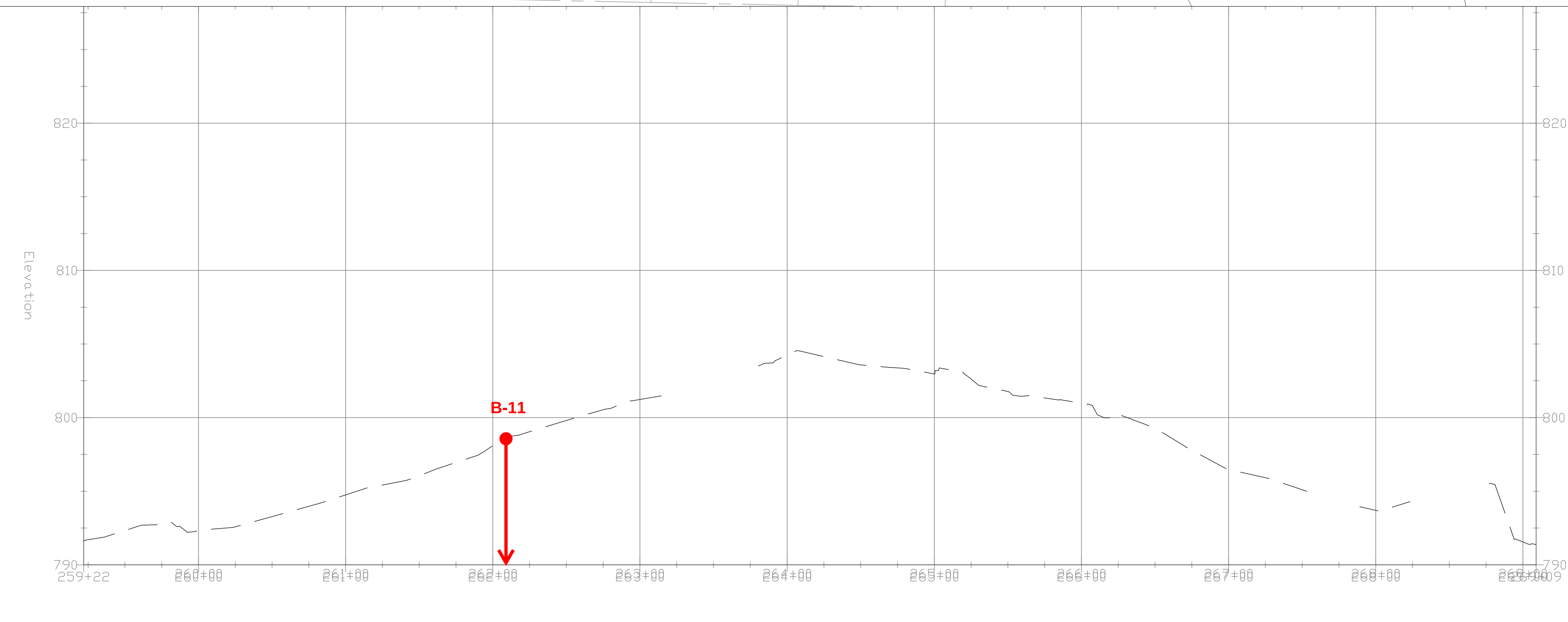
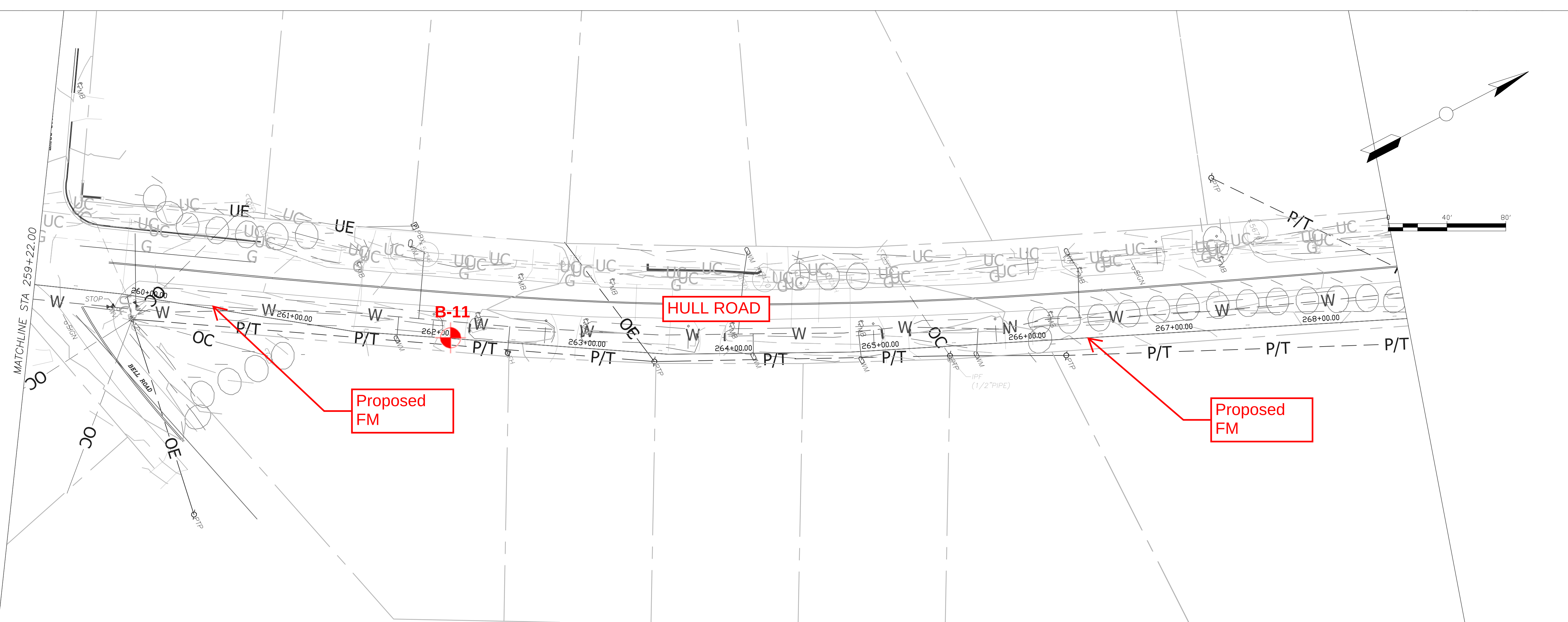
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

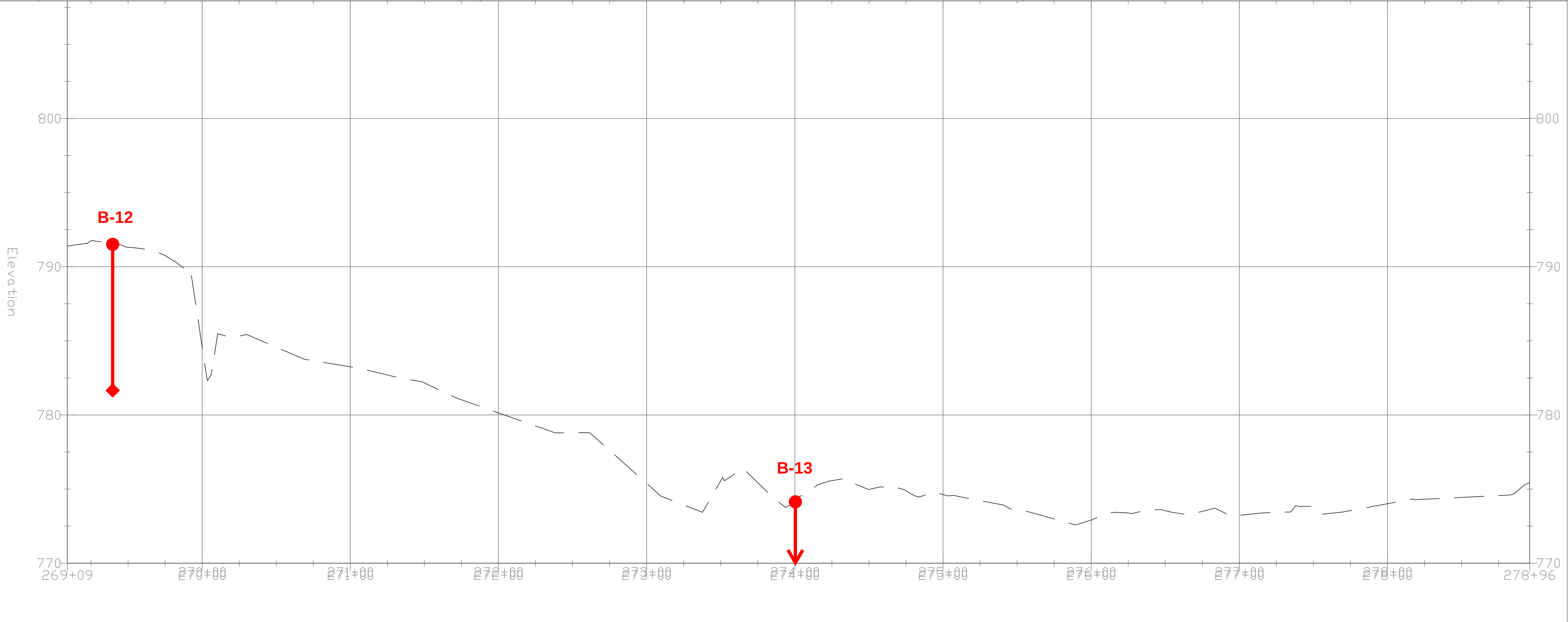
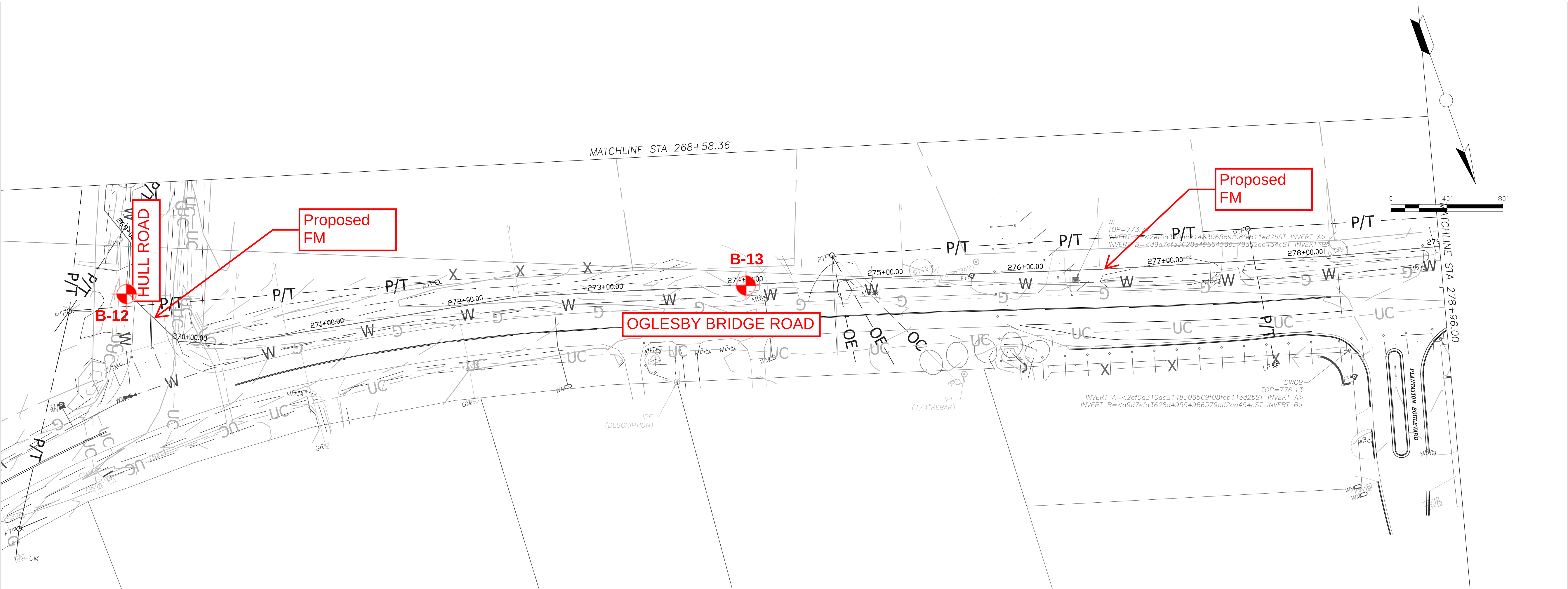
Value
Value
Value
Value

Project	Value	Sheet
Date	11/18/2021	6
Scale	1" = 40'	



Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

General Notes		
No.	Revision/Issue	Date
Firm Name and Address		
Project Name and Address		
Value Value Value Value		
Project	Value	Sheet
Date	11/18/2021	7
Scale	1" = 40'	



General Notes

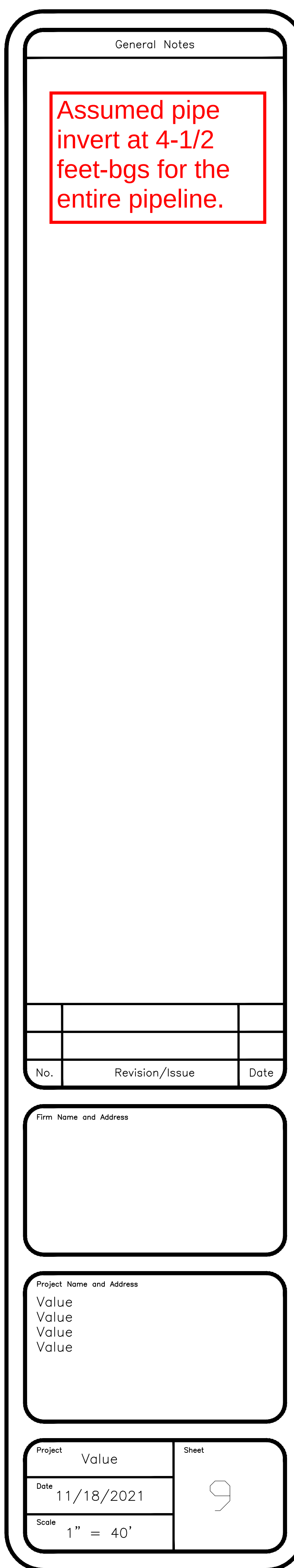
Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

No.	Revision/Issue	Date

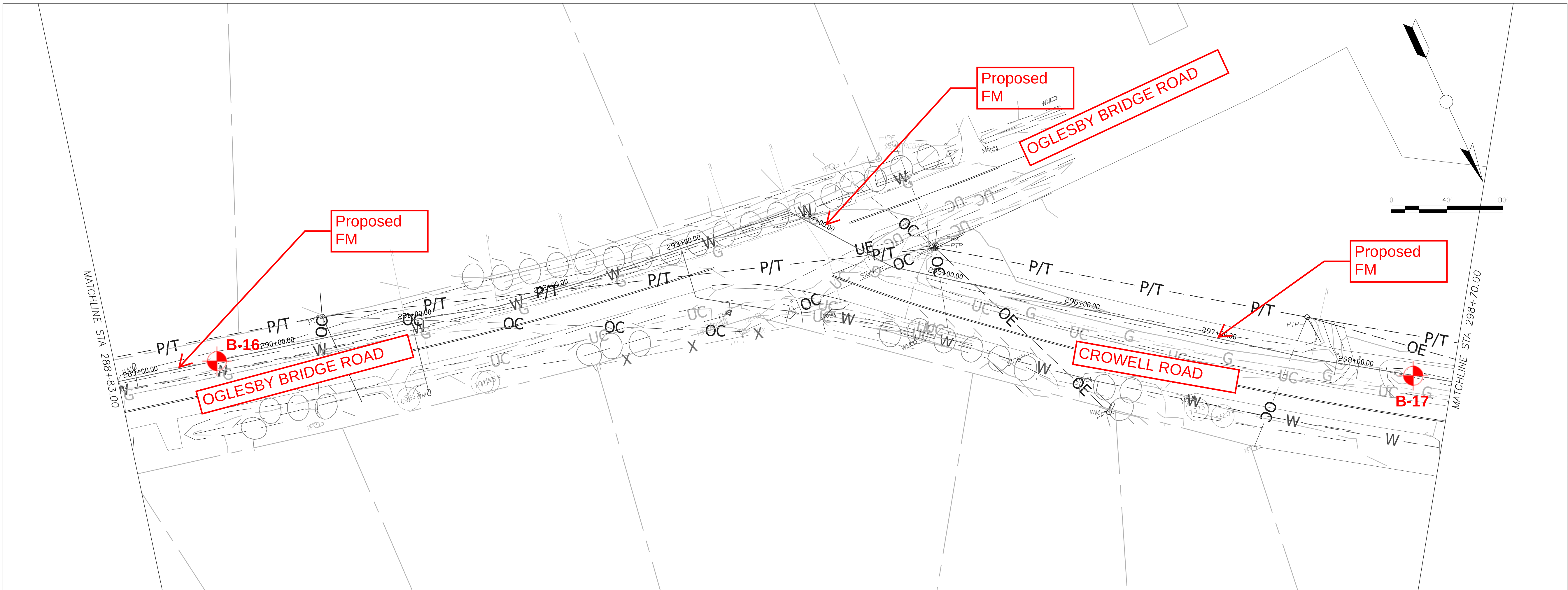
Firm Name and Address

Project Name and Address

Project	Value	Sheet
Date	11/18/2021	8
Scale	1" = 40'	



Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

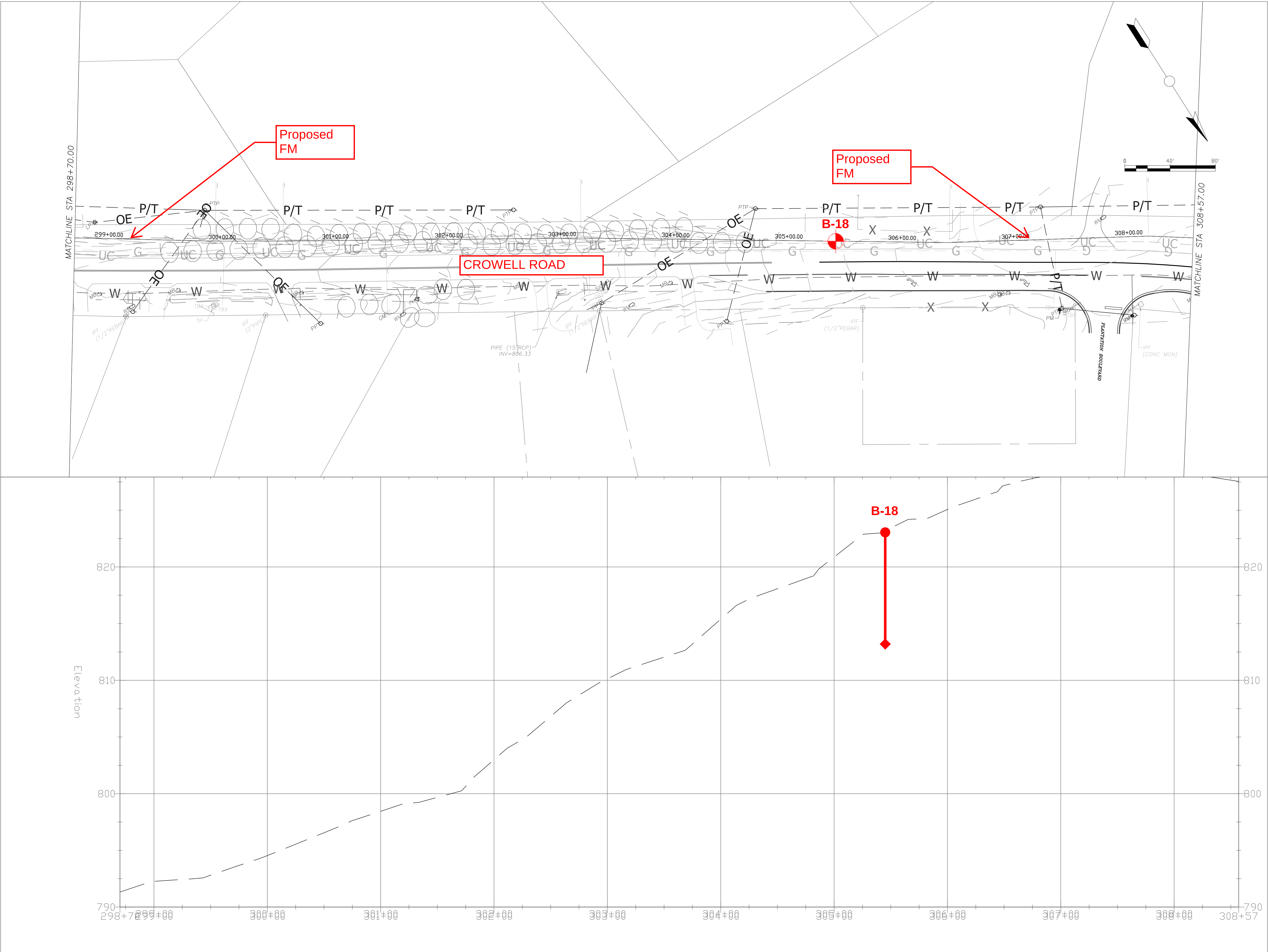
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Value
Value
Value
Value

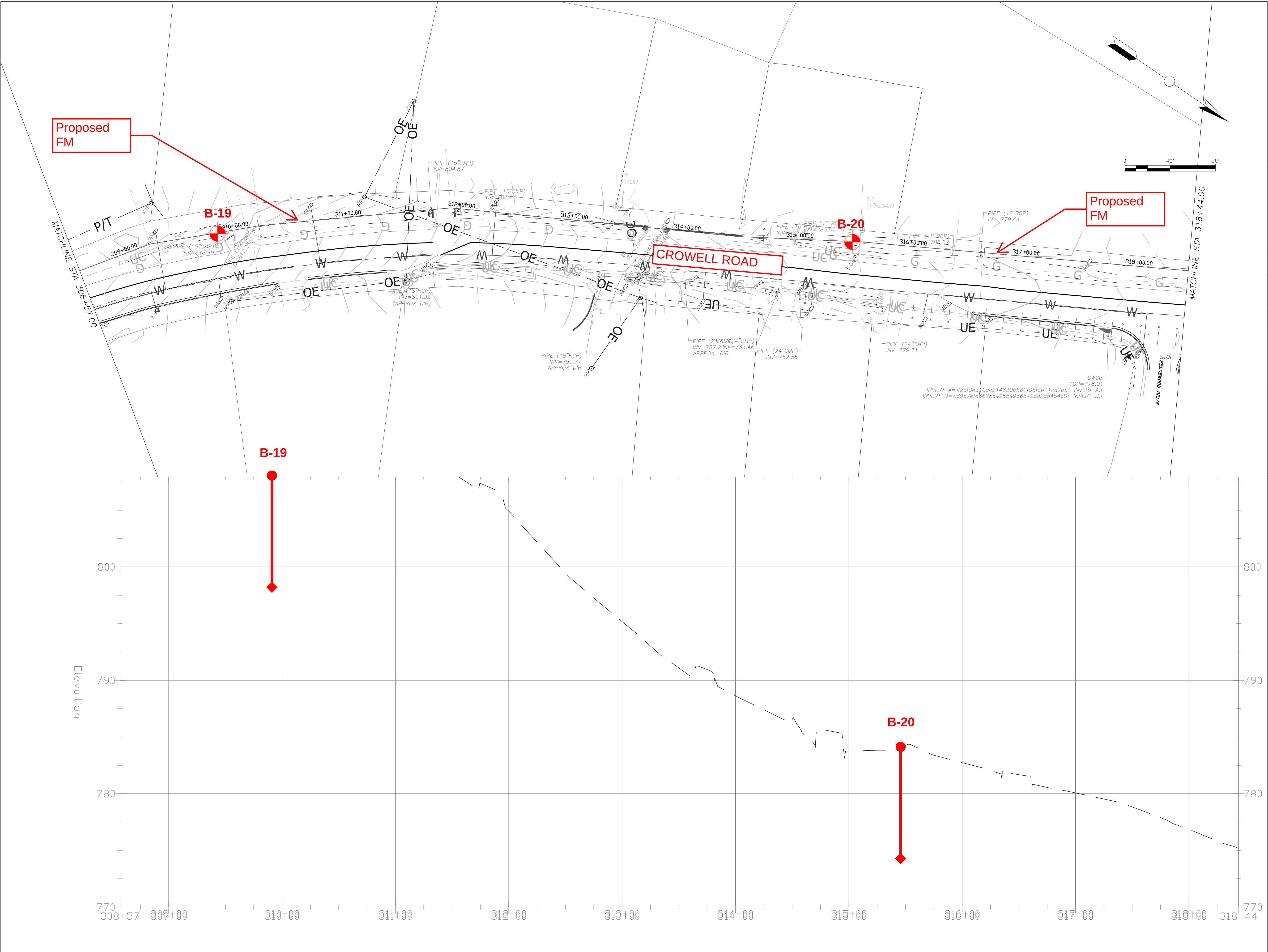
Project	Value	Sheet
Date	11/18/2021	10
Scale	1" = 40'	



General Notes

Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.

No.	Revision/Issue	Date
Firm Name and Address		
Project Name and Address		
Value Value Value Value		
Project	Value	Sheet
Date	11/18/2021	11
Scale	1" = 40'	



General Notes

Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.

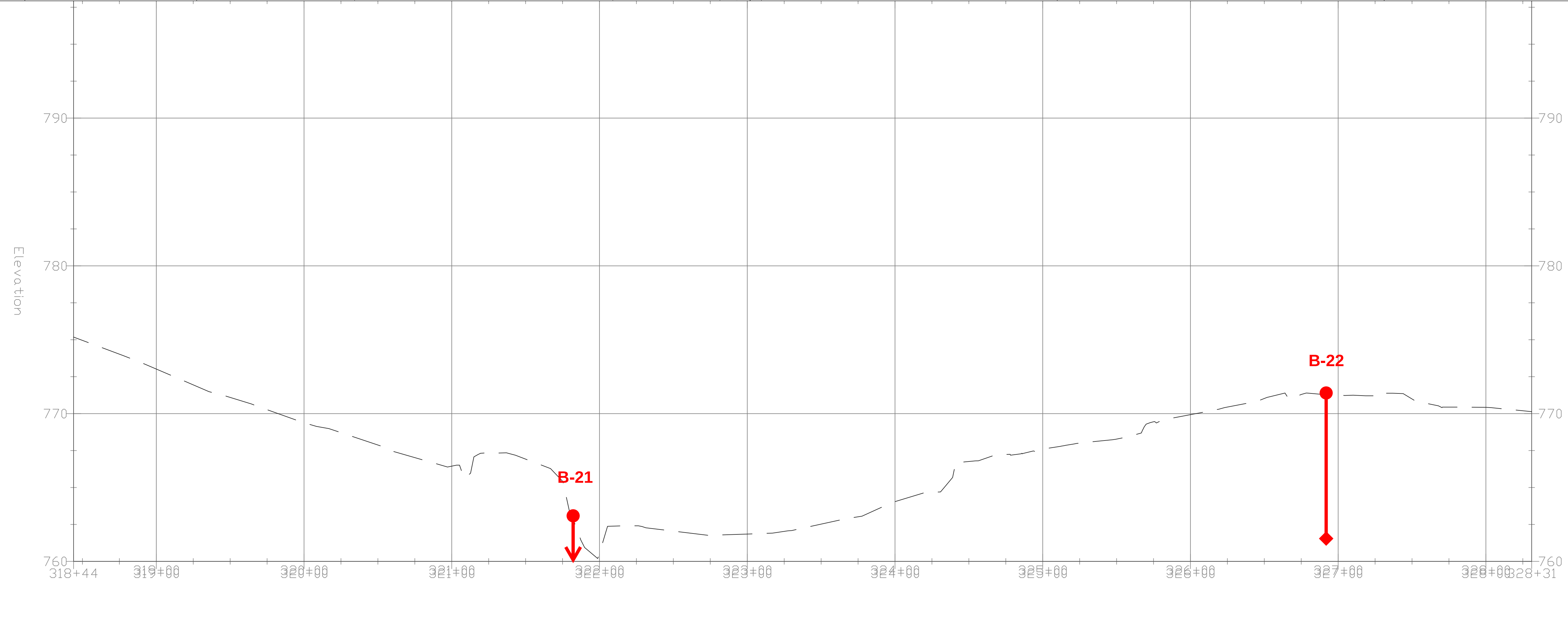
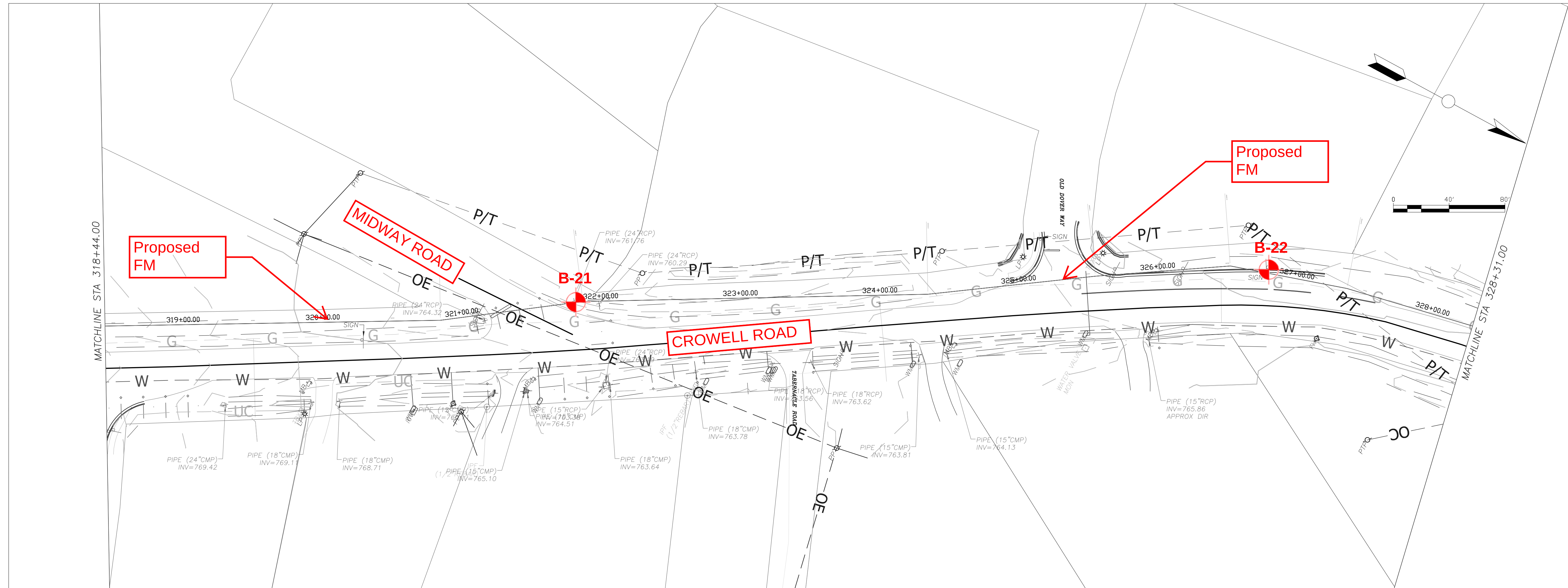
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Value
Value
Value
Value

Project	Value	Sheet
Date	11/18/2021	12
Scale	1" = 40'	



General Notes

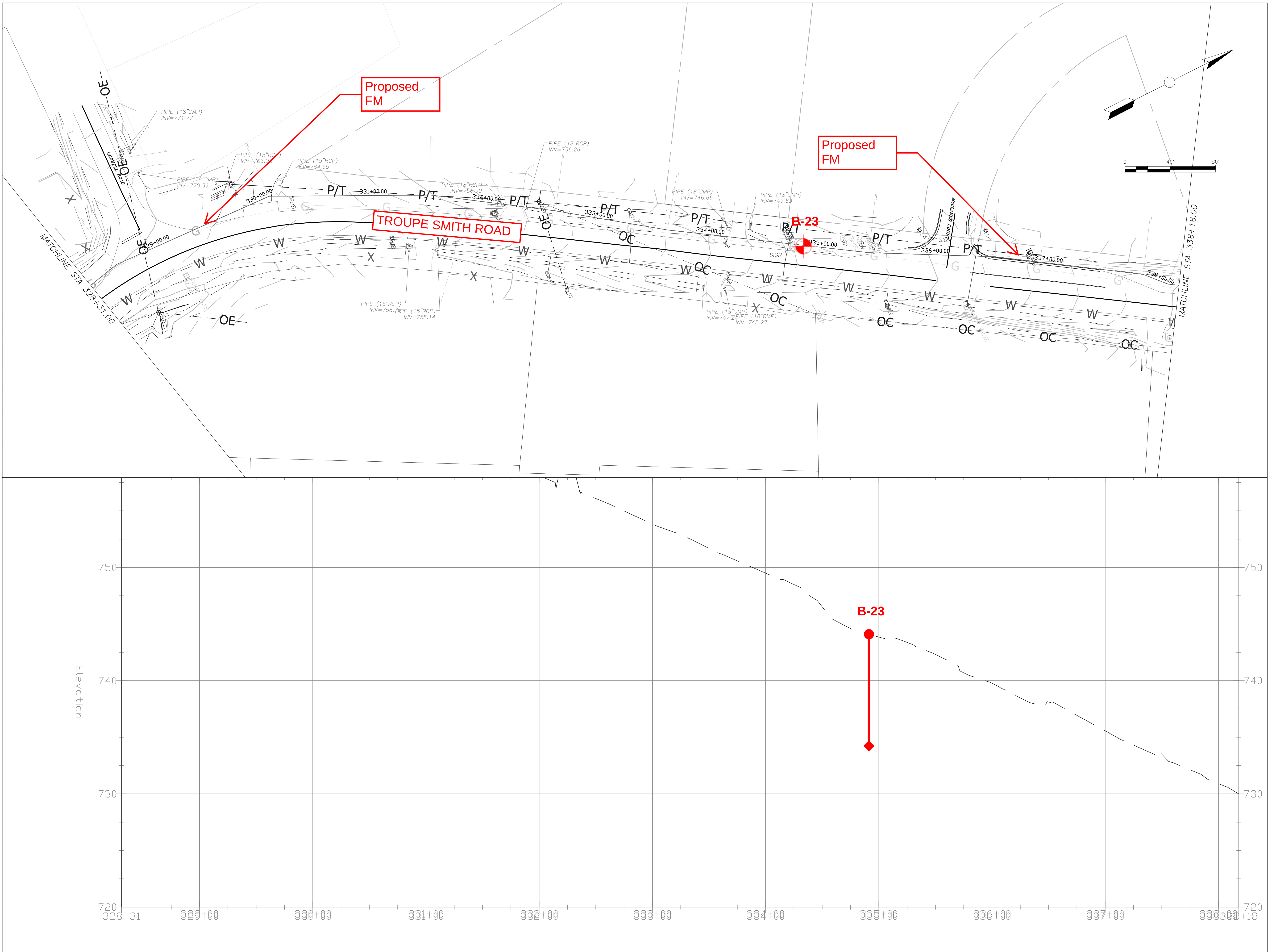
Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Project	Value	Sheet
Date	11/18/2021	13
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

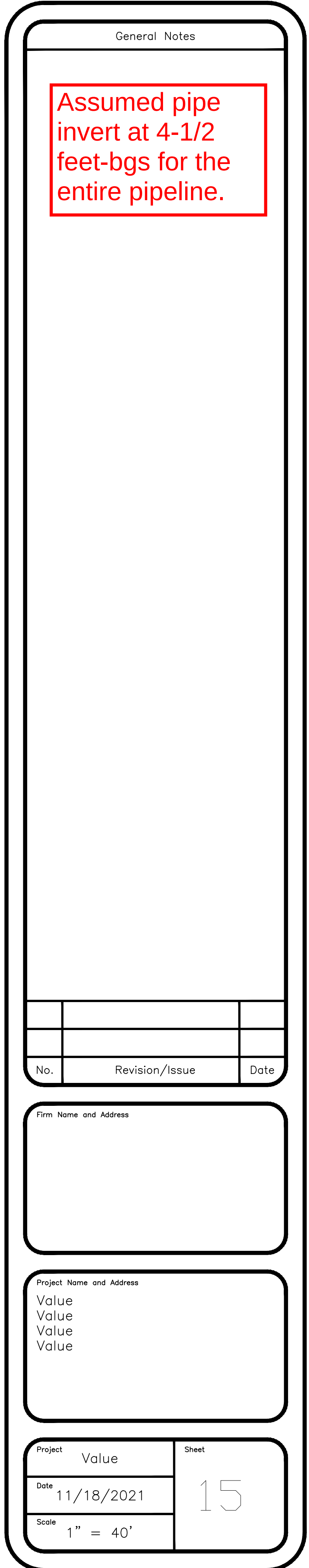
No.	Revision/Issue	Date

Firm Name and Address

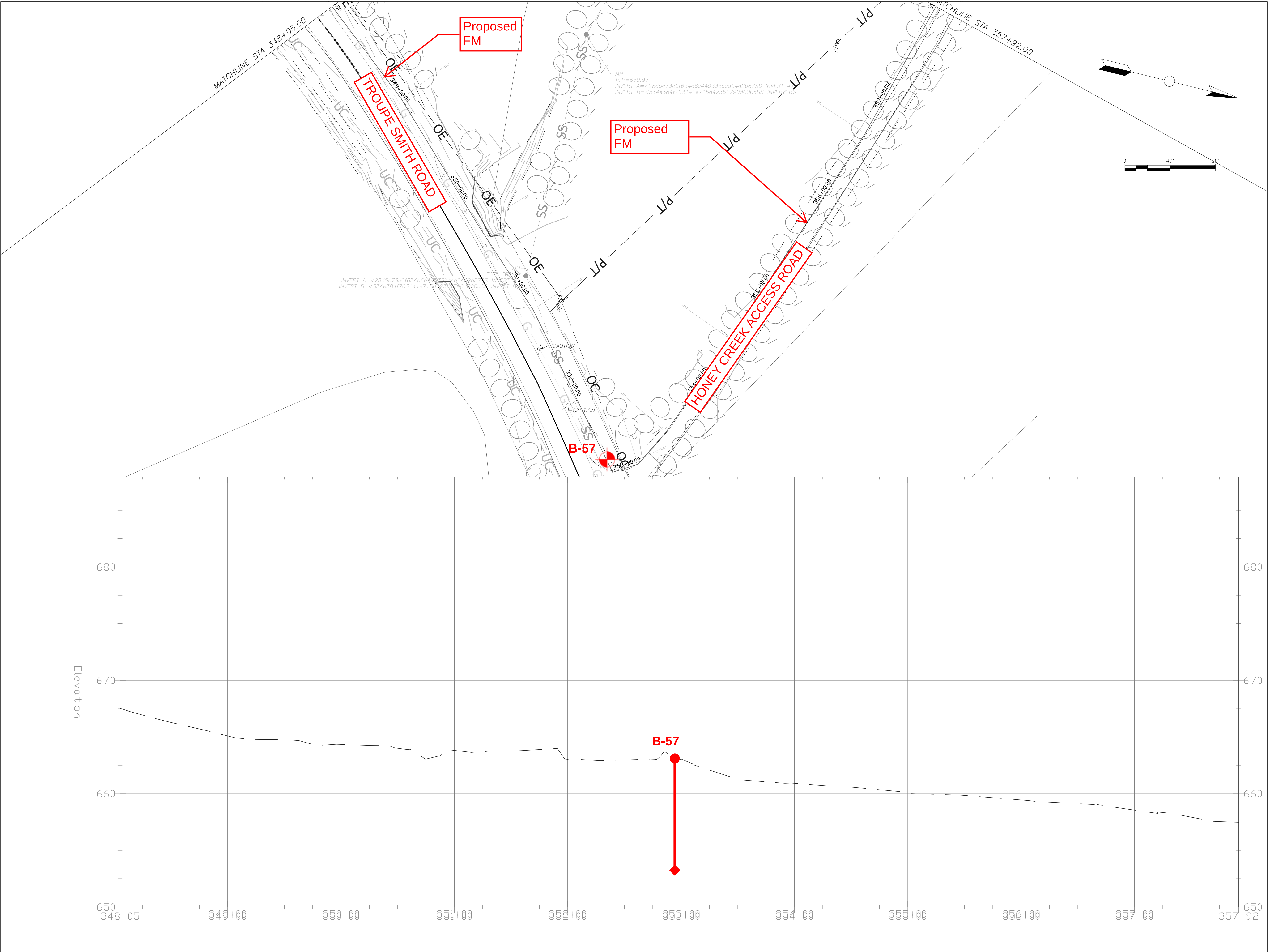
Project Name and Address

Value
Value
Value
Value

Project	Value	Sheet
Date	11/18/2021	14
Scale	1" = 40'	



Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.



Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

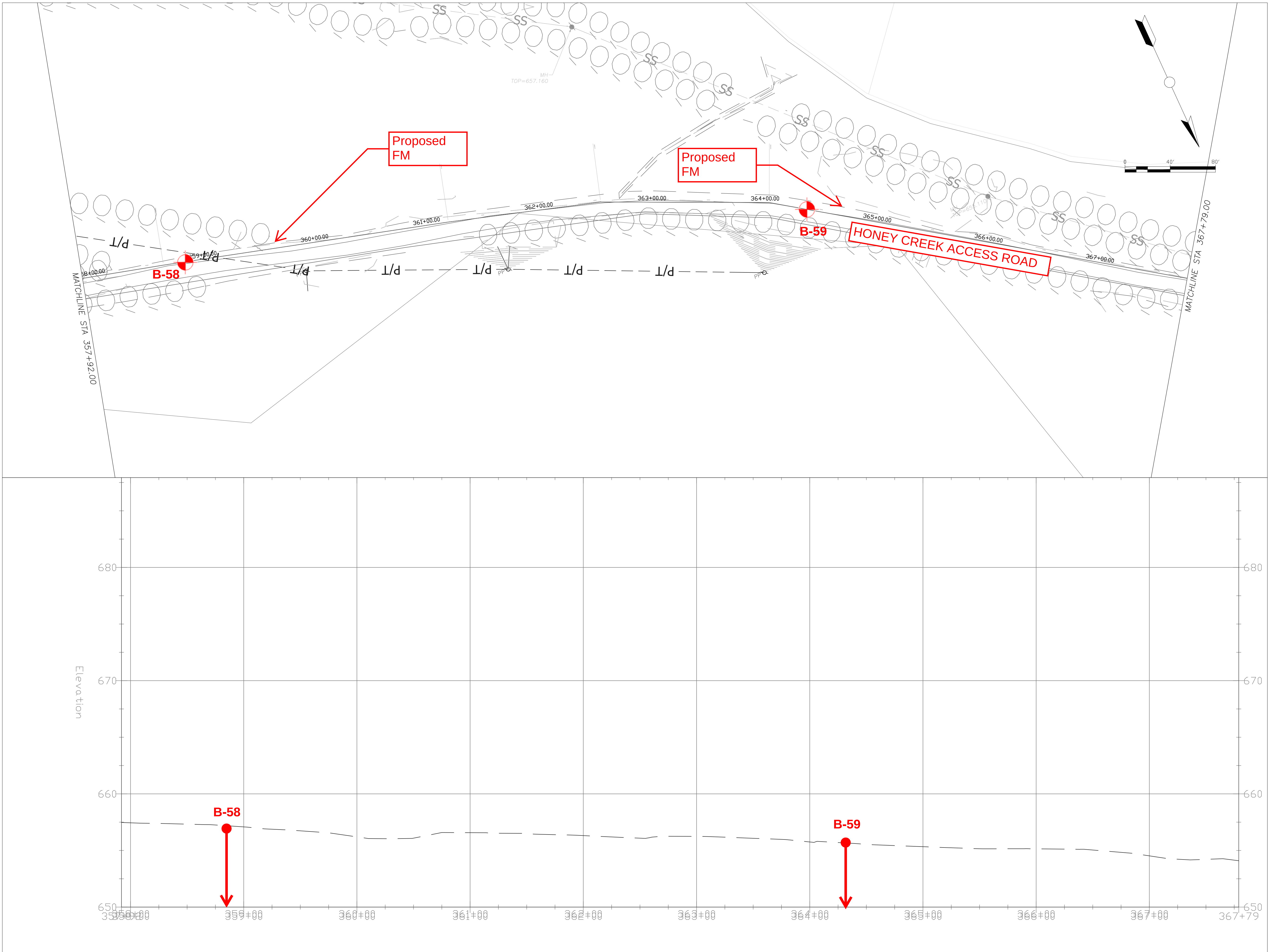
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Value
Value
Value
Value

Project	Value	Sheet
Date	11/18/2021	16
Scale	1" = 40'	



General Notes

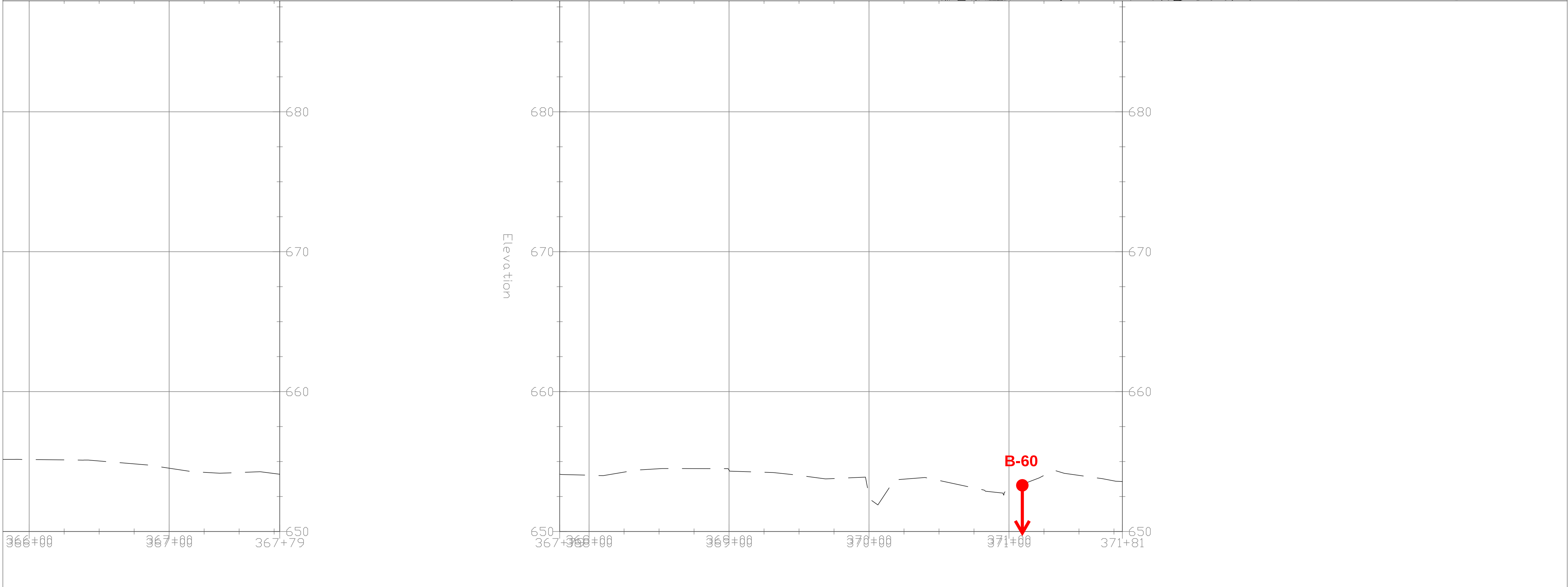
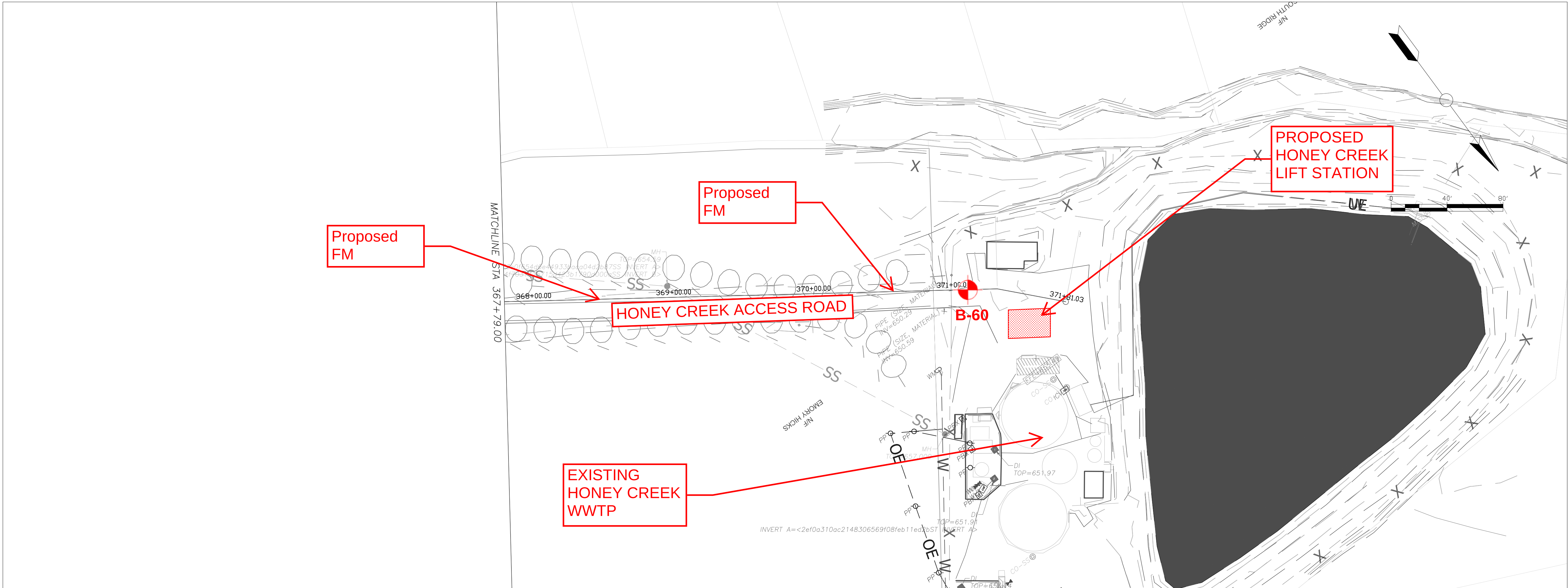
Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.

No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address
Value
Value
Value
Value

Project	Value	Sheet
Date	11/18/2021	17
Scale	1" = 40'	



General Notes

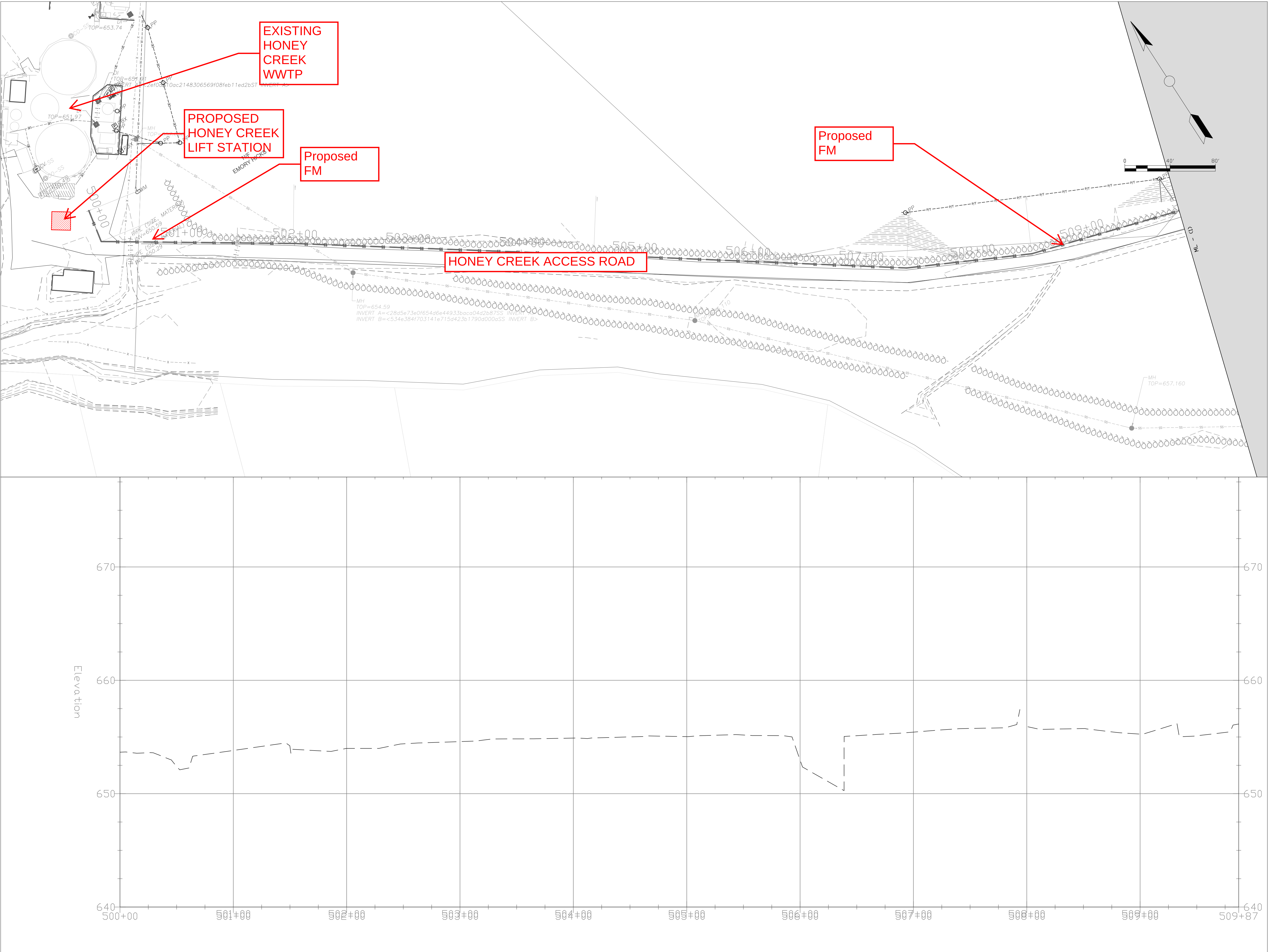
Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Project	Value	Sheet
Date	11/18/2021	18
Scale	1" = 40'	



General Notes

Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.

Borings of this sheet have been shown on the "Scott Creek Line" Plan & Profile.

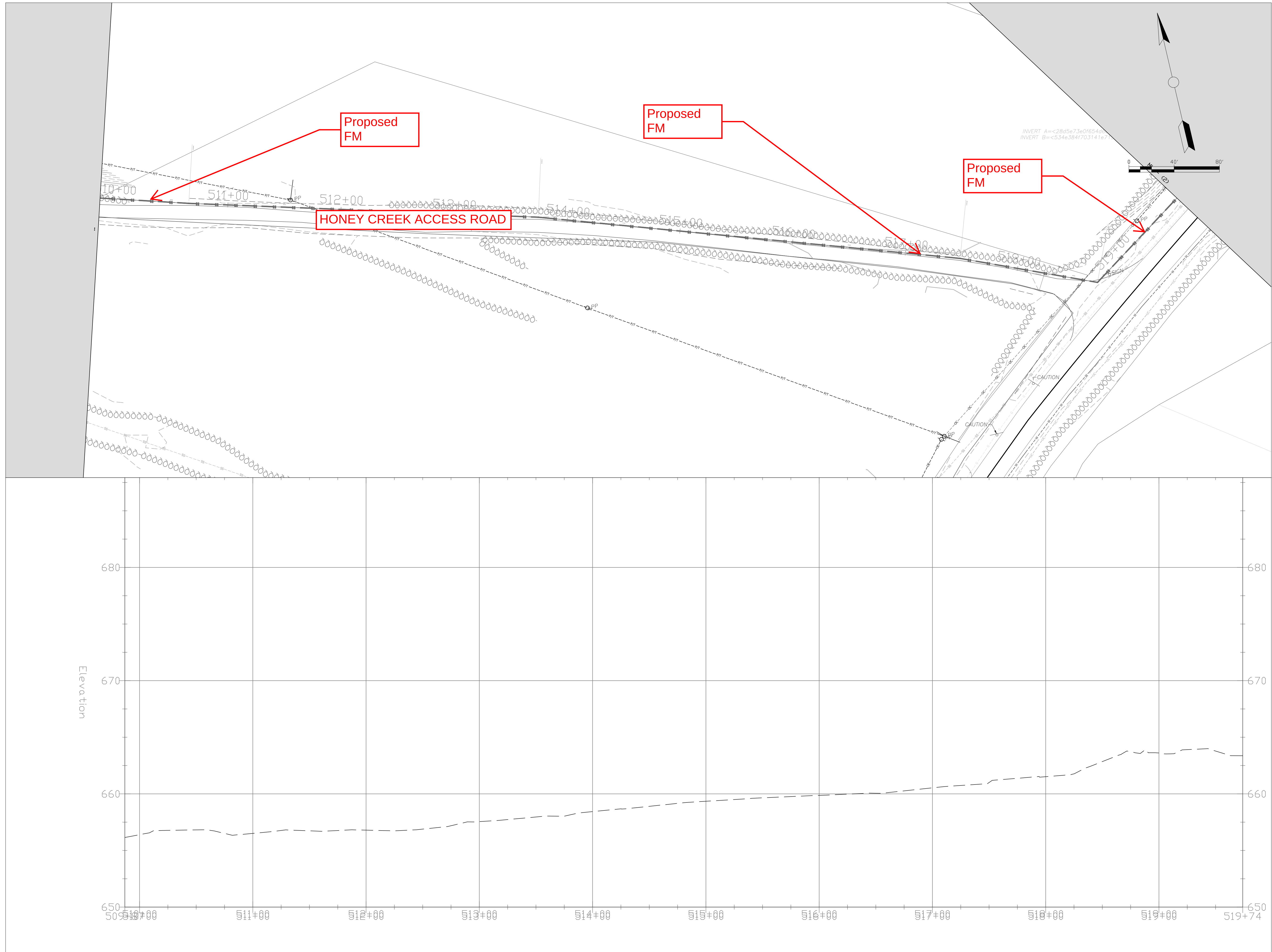
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Value
Value
Value
Value

Project	Value	Sheet 1
Date	11/17/2021	
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

Borings of this
sheet have been
shown on the
"Scott Creek
Line" Plan &
Profile.

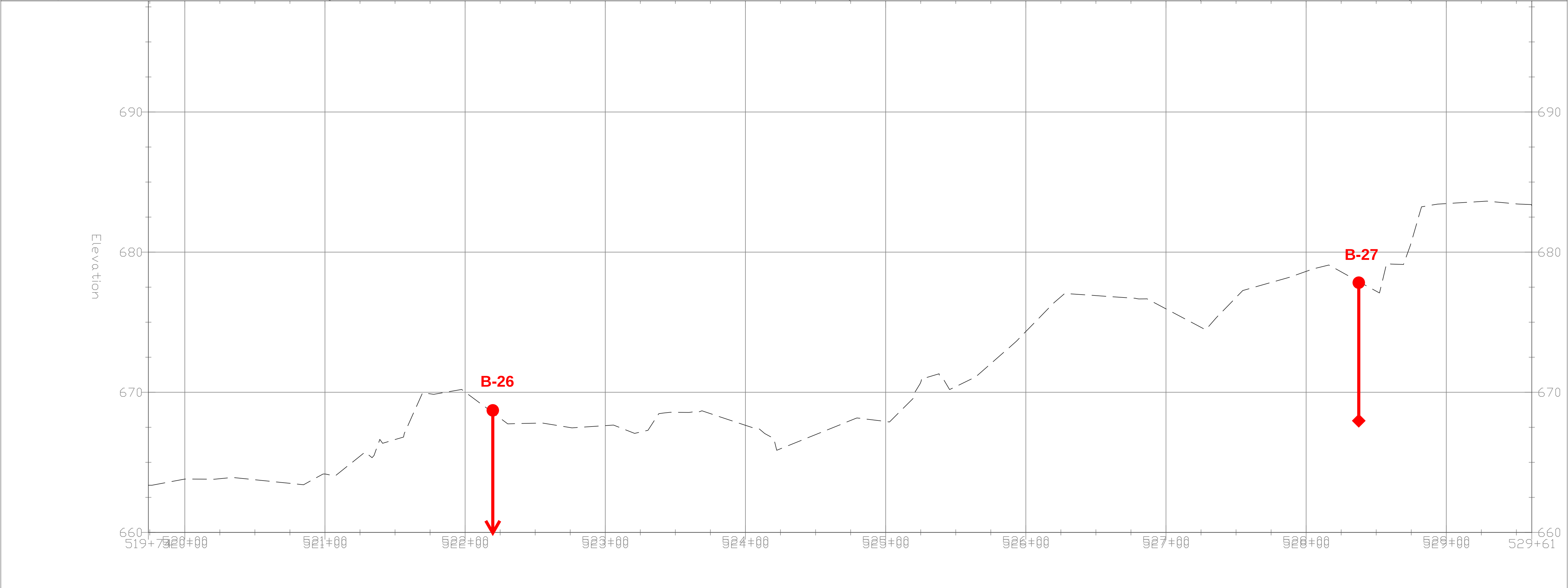
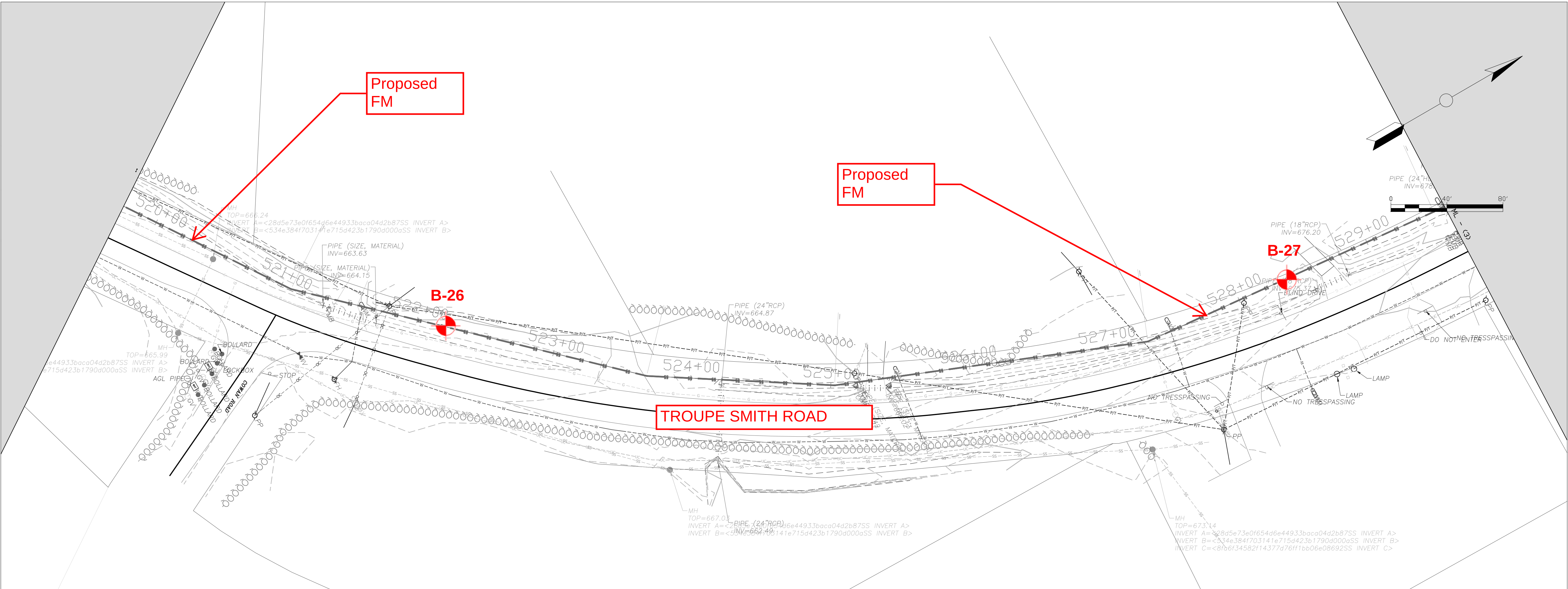
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Value
Value
Value
Value

Project	Value	Sheet
Date	11/17/2021	2
Scale	1" = 40'	



General Notes

Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.

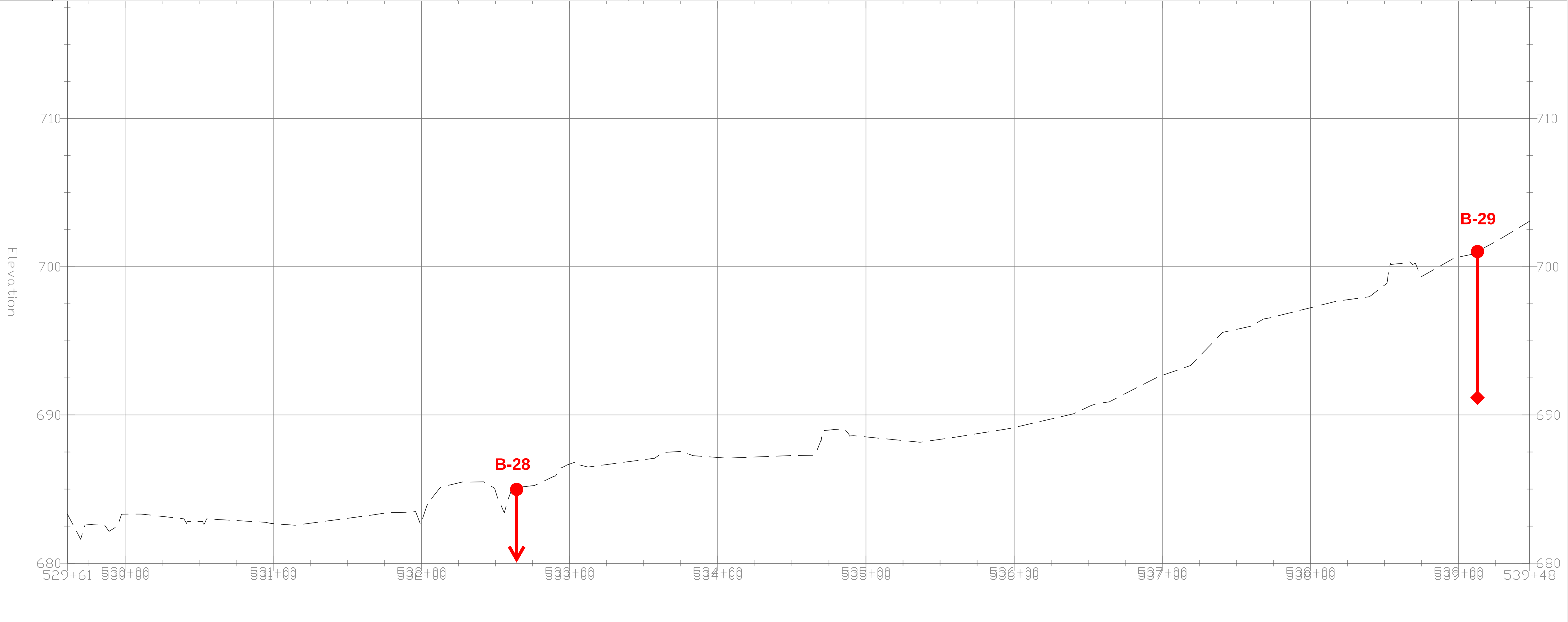
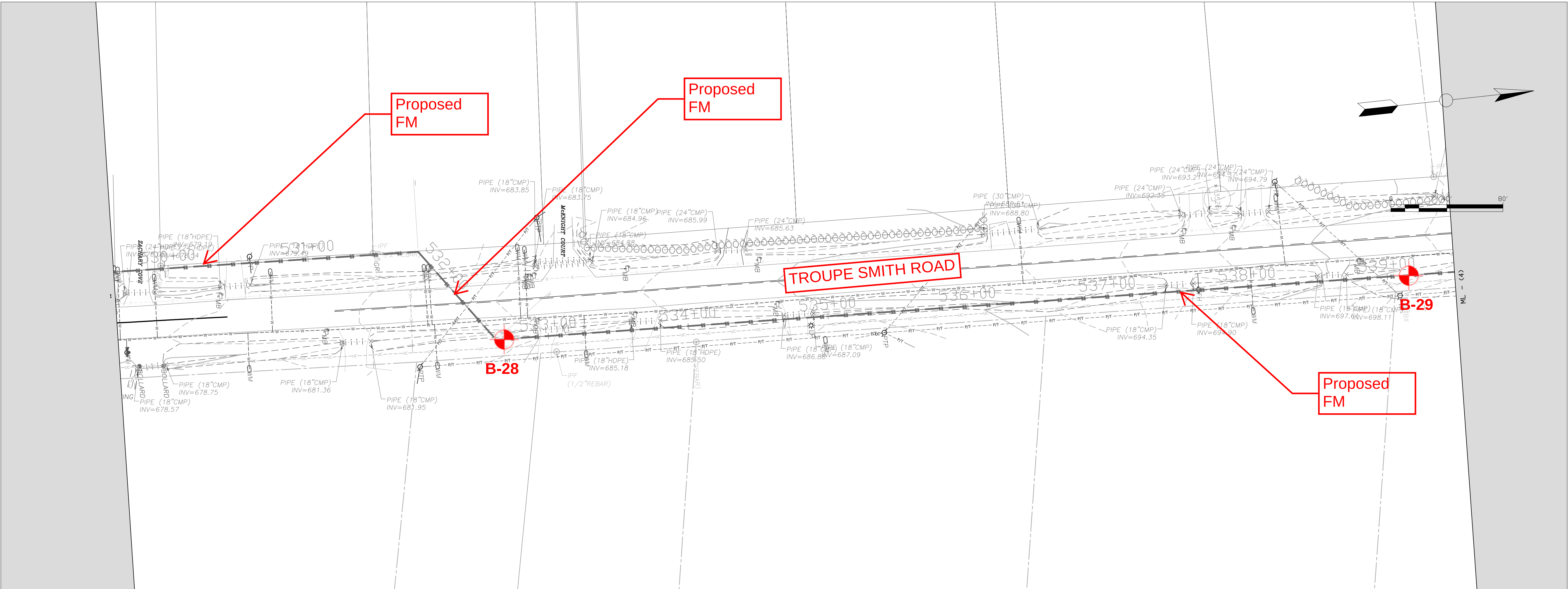
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Value
Value
Value
Value

Project	Value	Sheet
Date	11/17/2021	3
Scale	1" = 40'	



Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

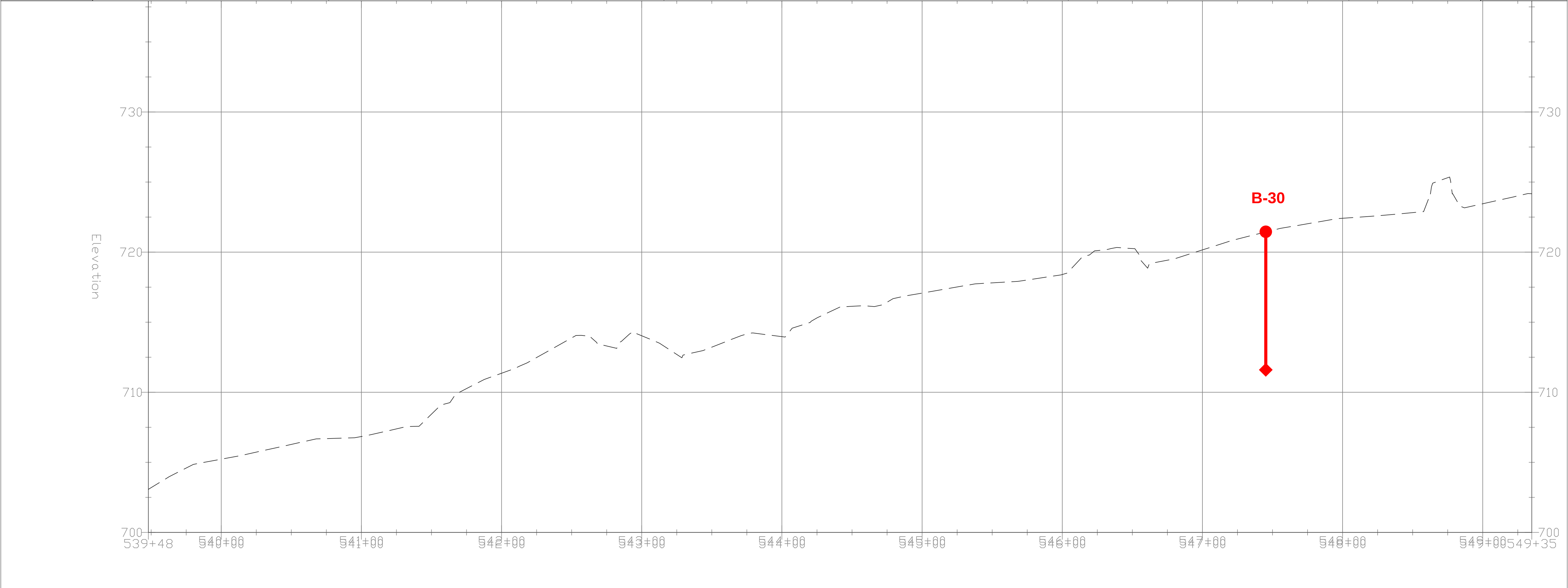
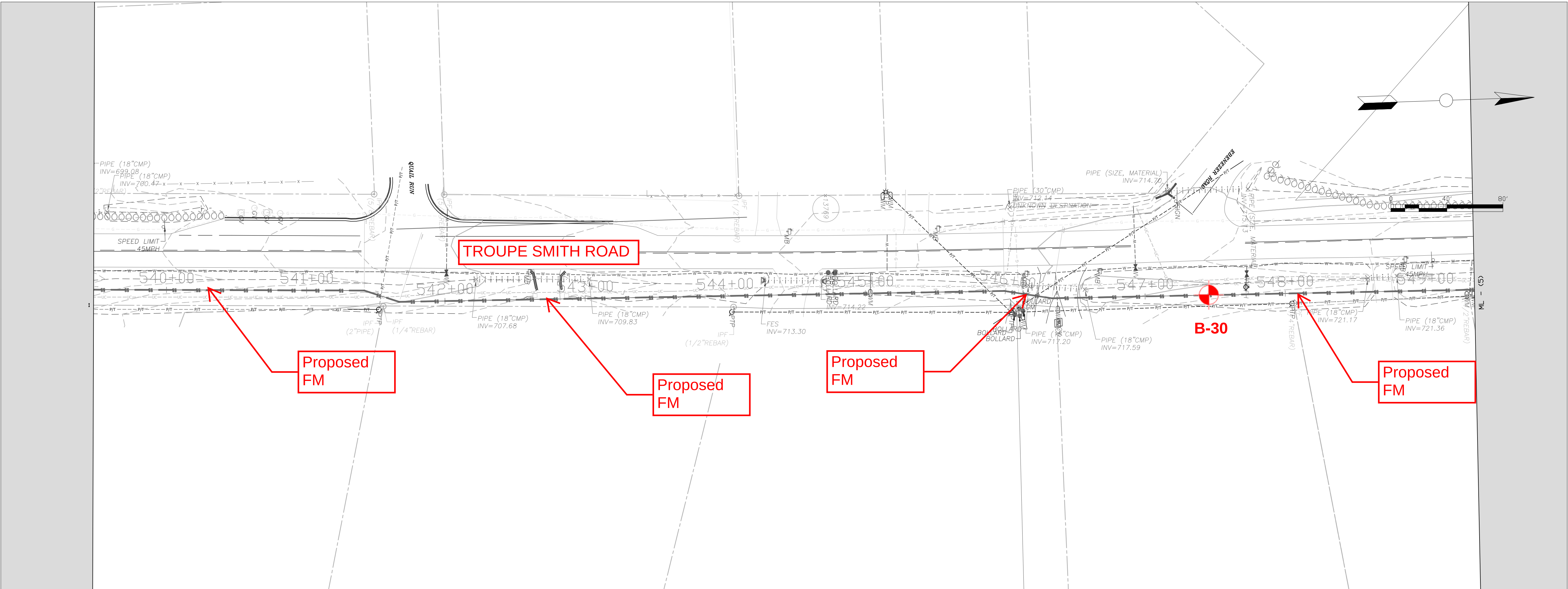
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Value
Value
Value
Value

Project	Value	Sheet
Date	11/17/2021	4
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

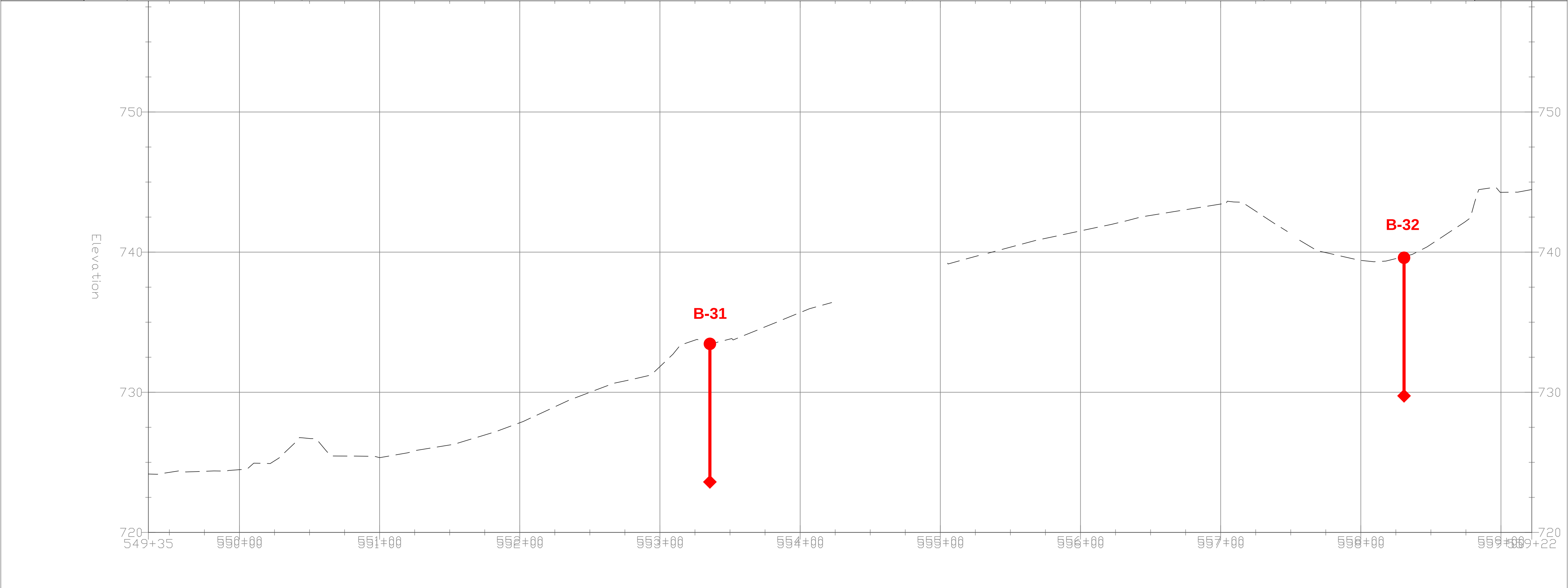
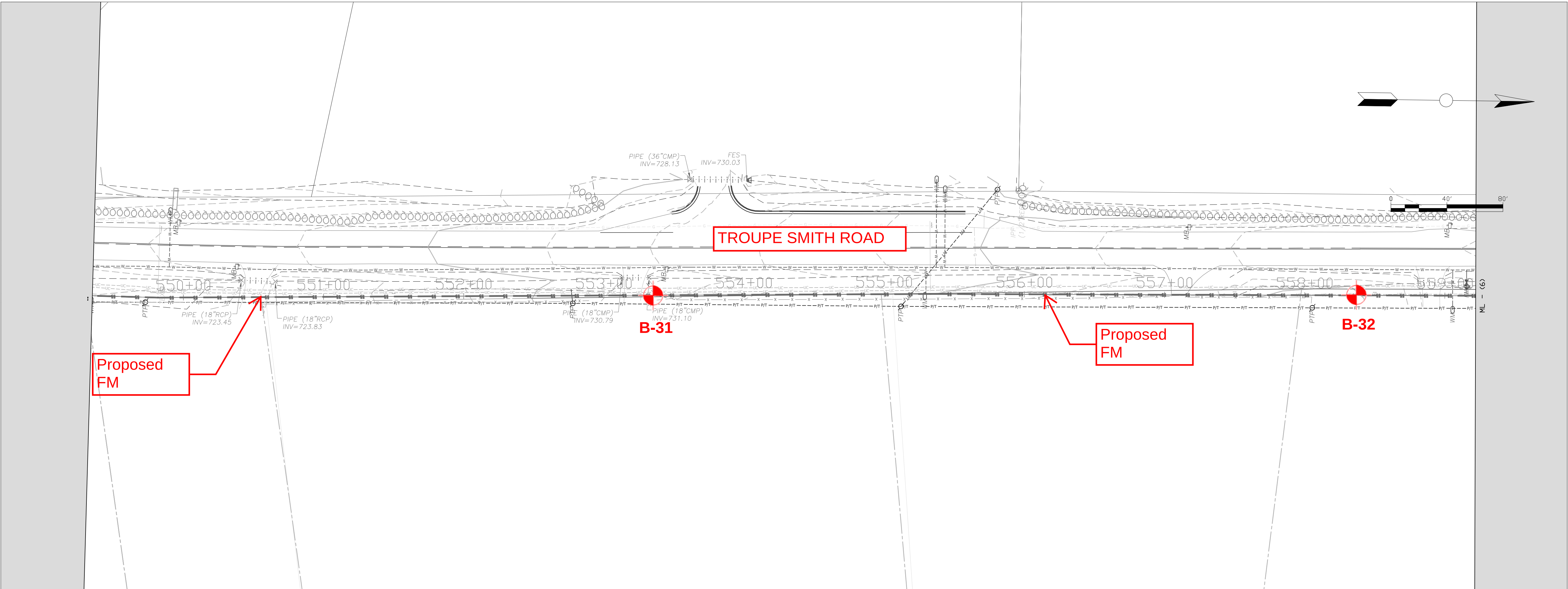
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

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Project	Value	Sheet
Date	11/17/2021	5
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

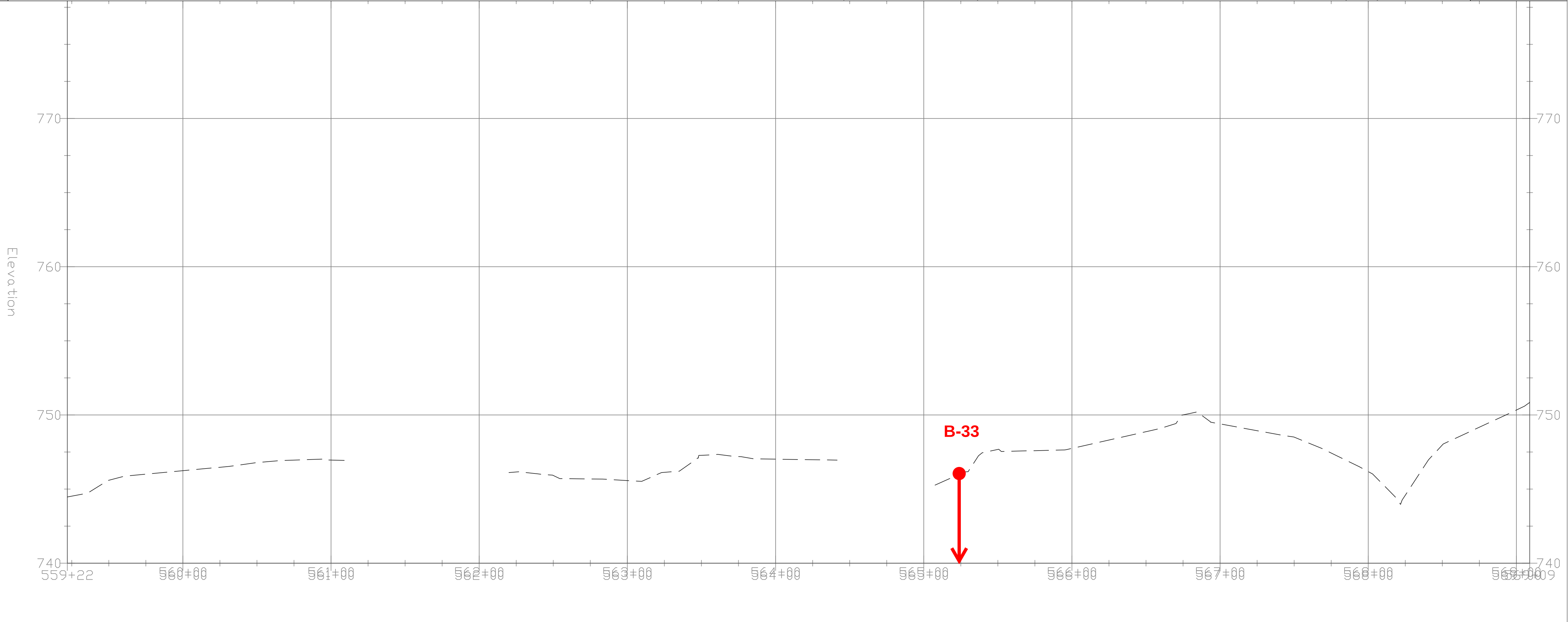
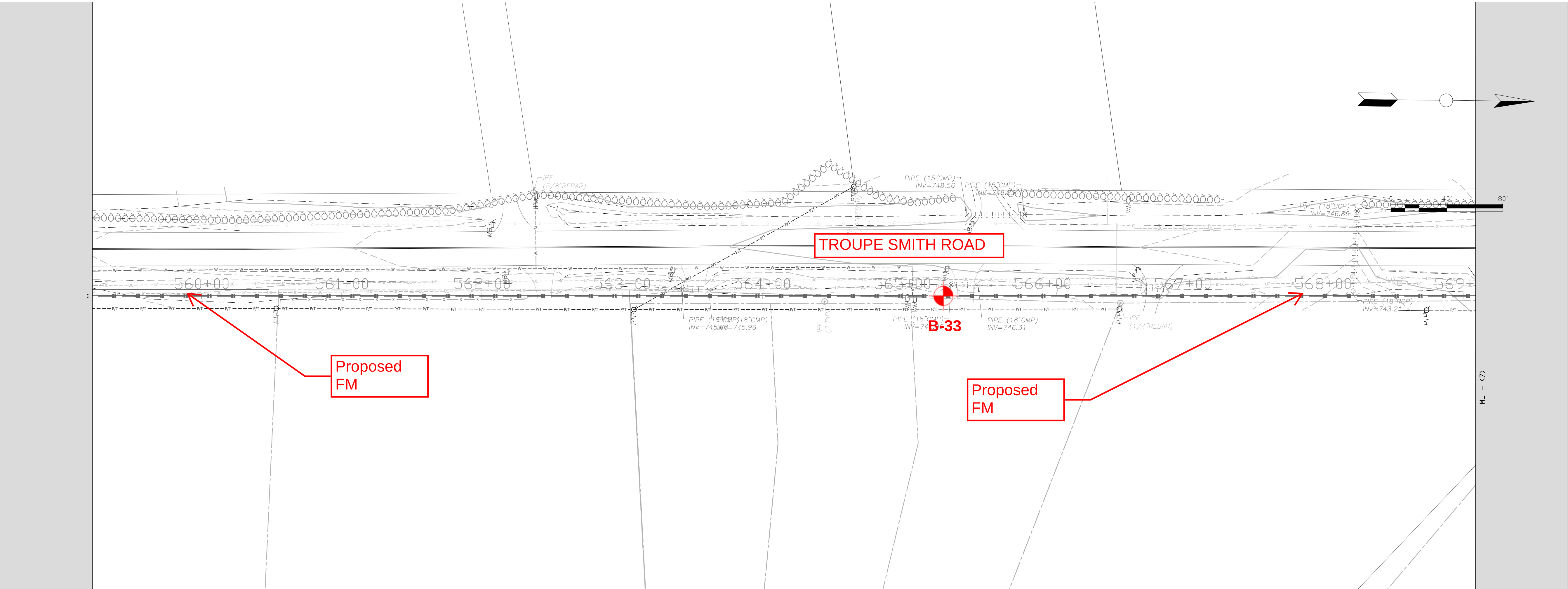
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

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Project	Value	Sheet 6
Date	11/17/2021	
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

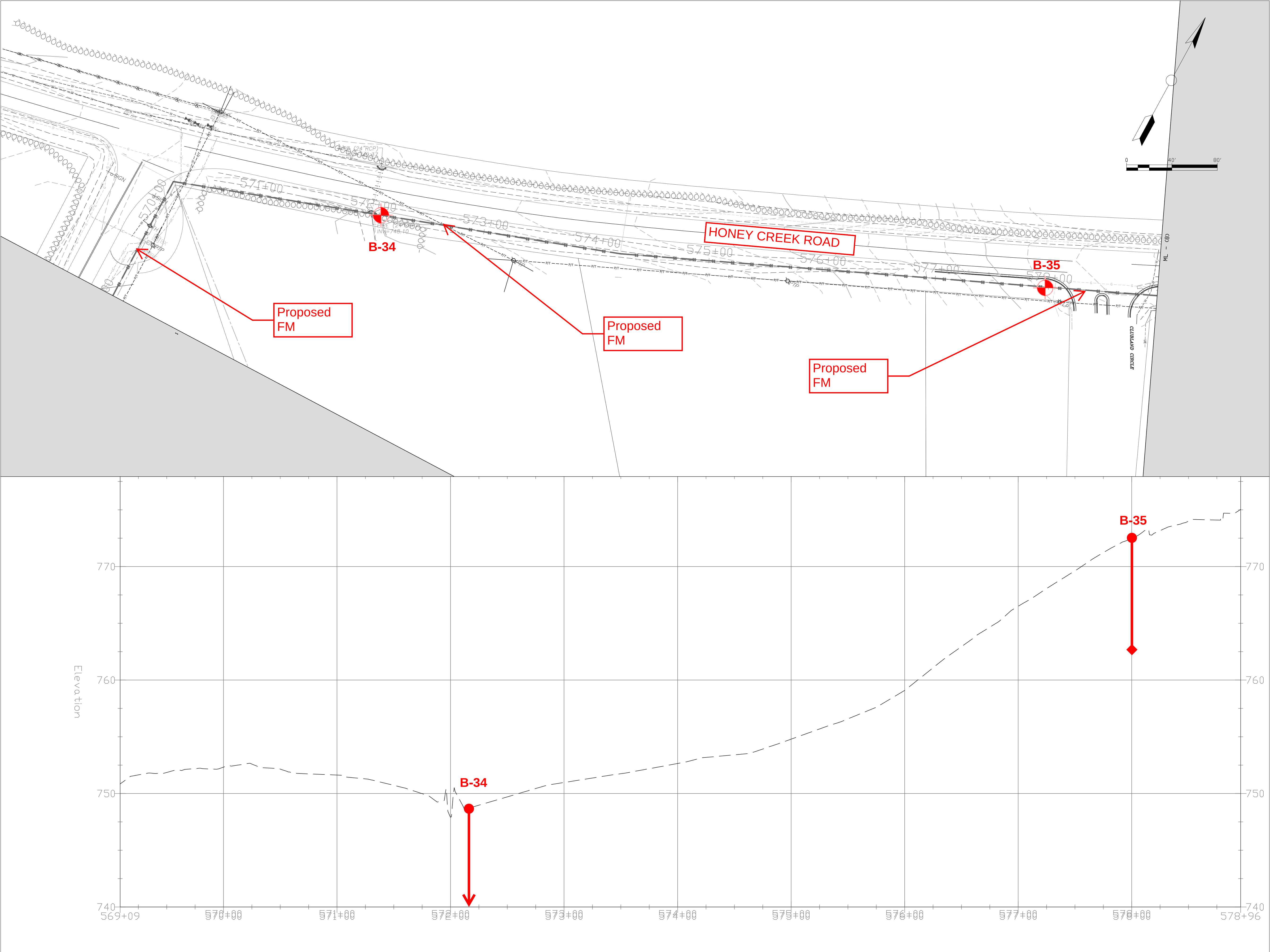
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

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Project	Value	Sheet
Date	11/17/2021	7
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

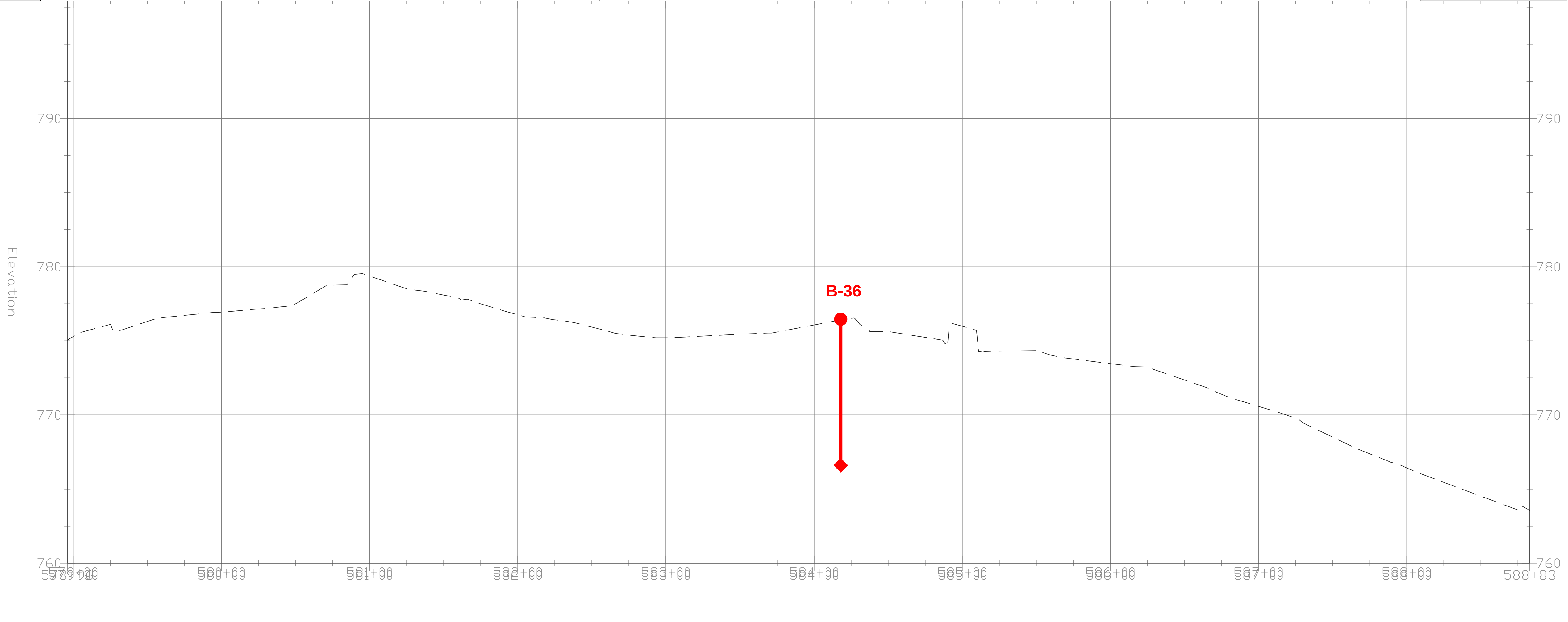
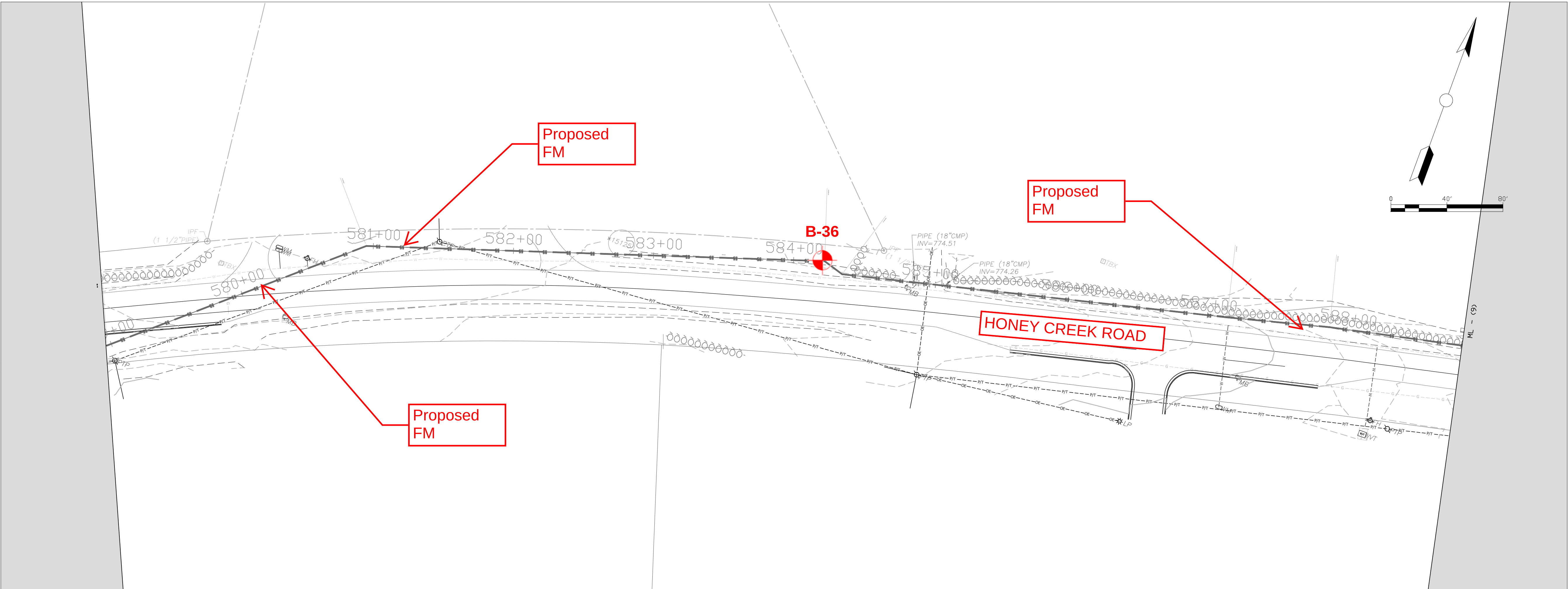
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

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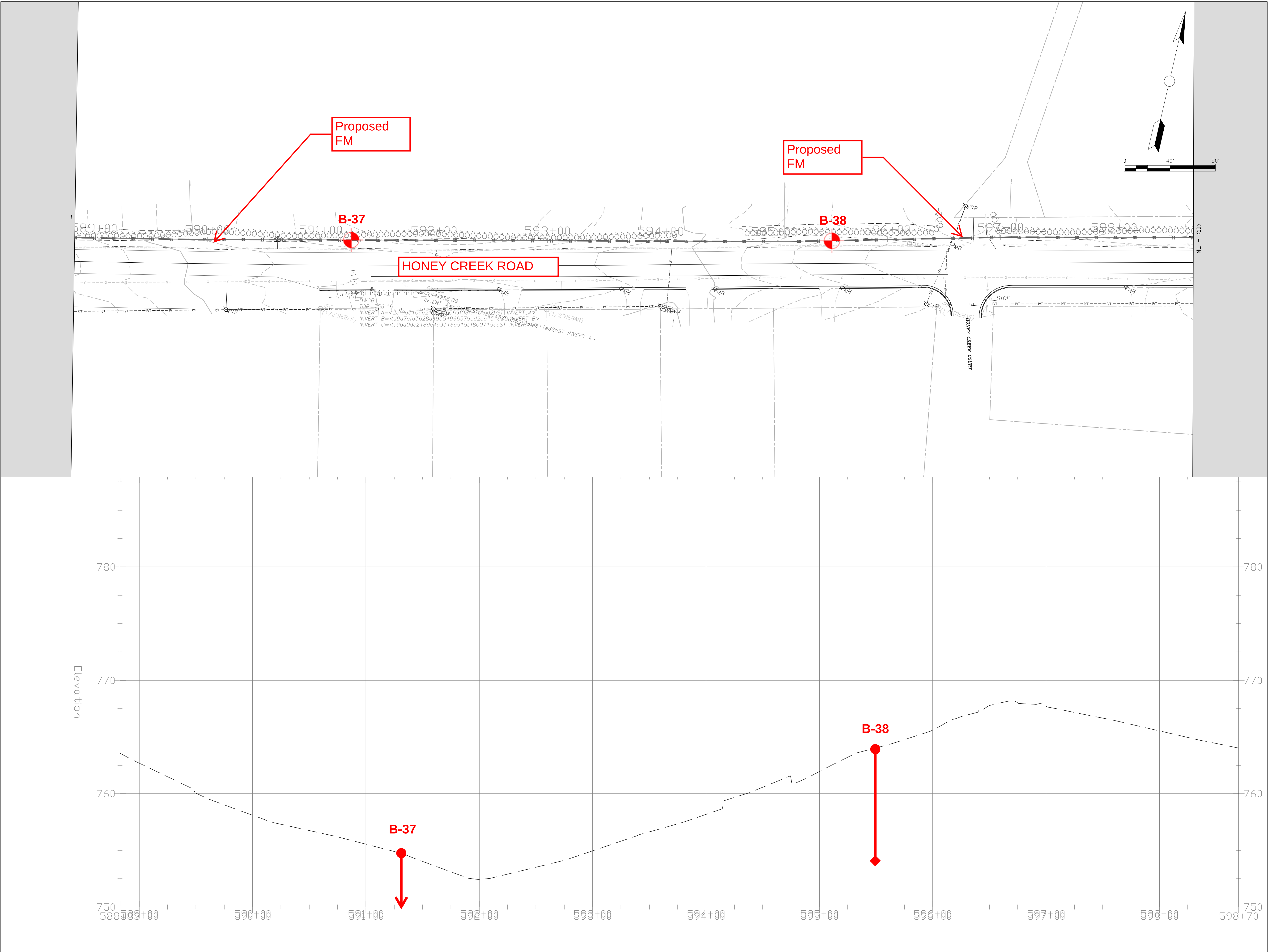
Project	Value	Sheet
Date	11/17/2021	8
Scale	1" = 40'	



General Notes

Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.

No.	Revision/Issue	Date
Firm Name and Address		
Project Name and Address		
Value Value Value Value		
Project	Value	Sheet
Date	11/17/2021	9
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

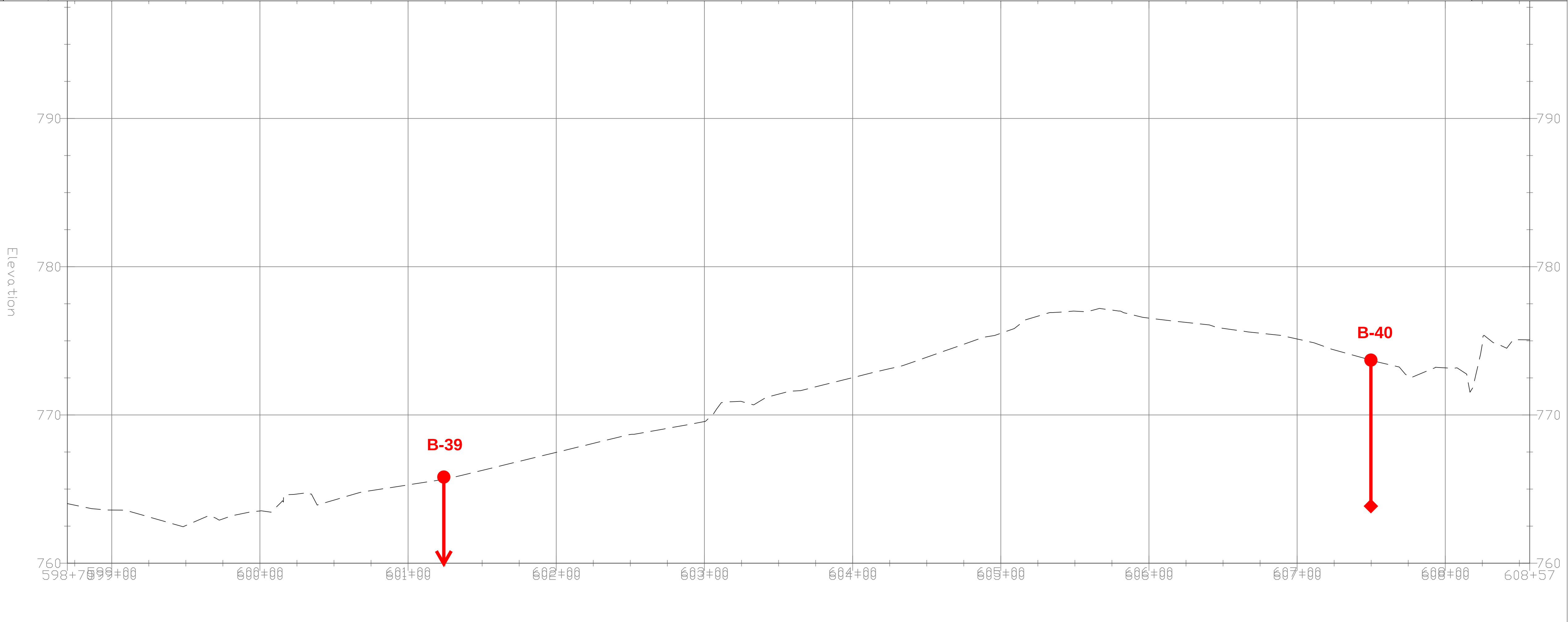
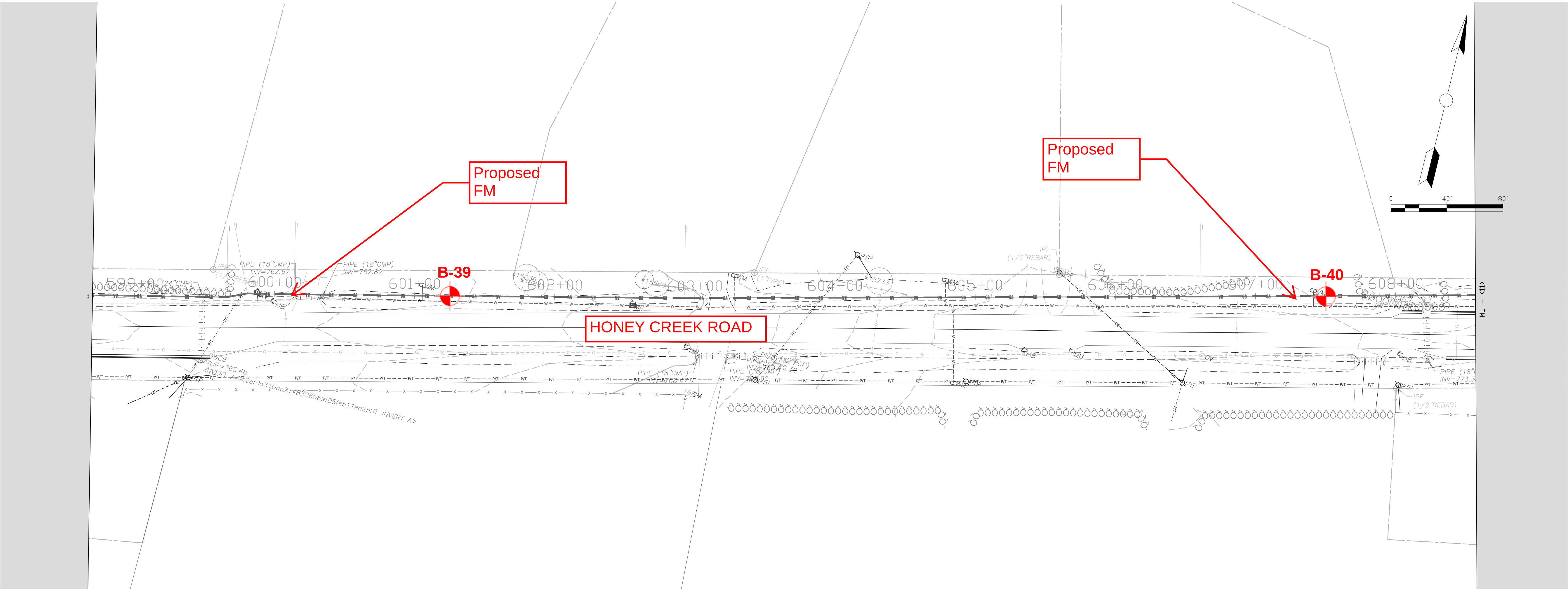
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

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Project	Value	Sheet
Date	11/17/2021	10
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

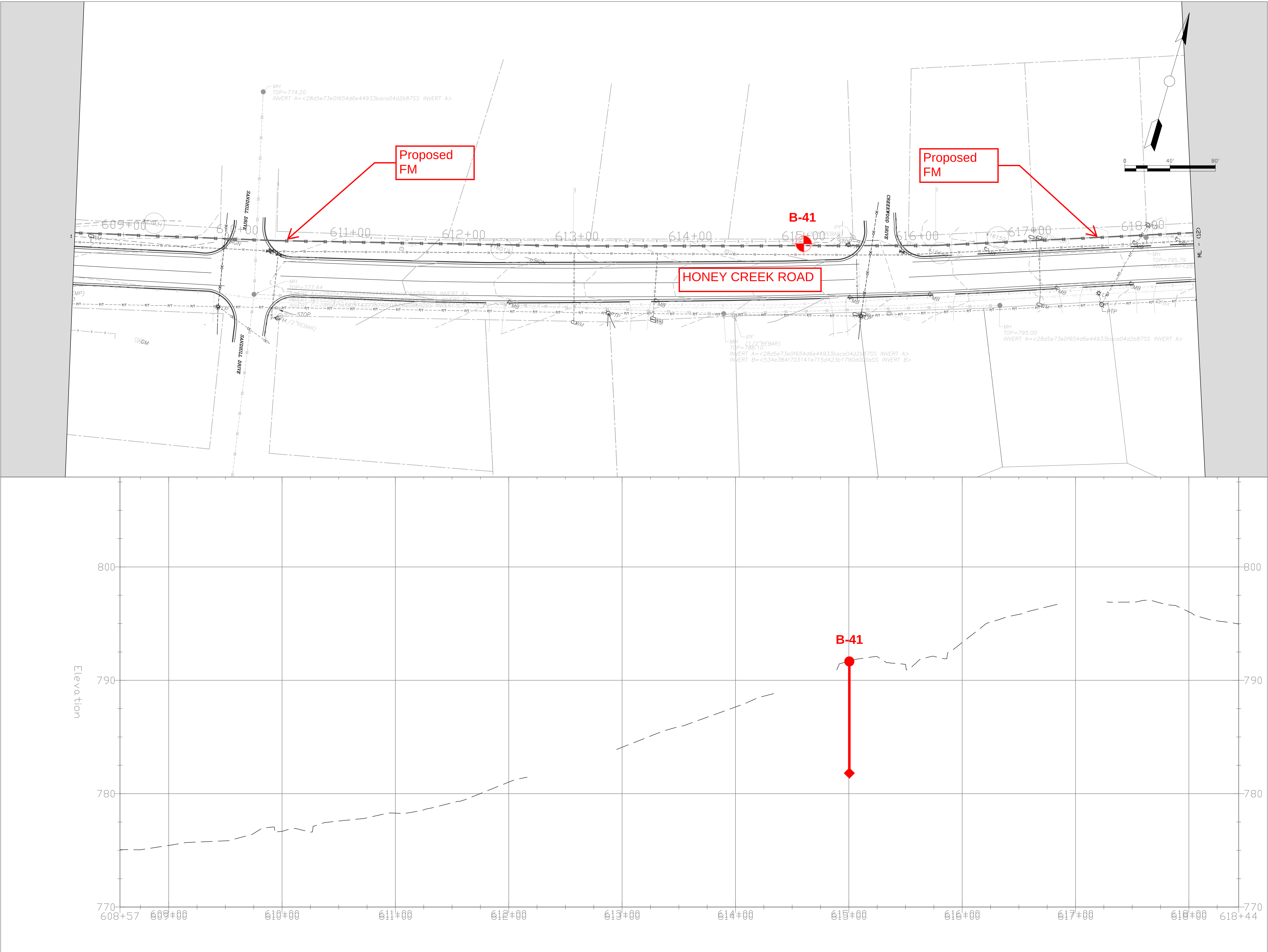
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

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Project	Value	Sheet
Date	11/17/2021	11
Scale	1" = 40'	



General Notes

Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.

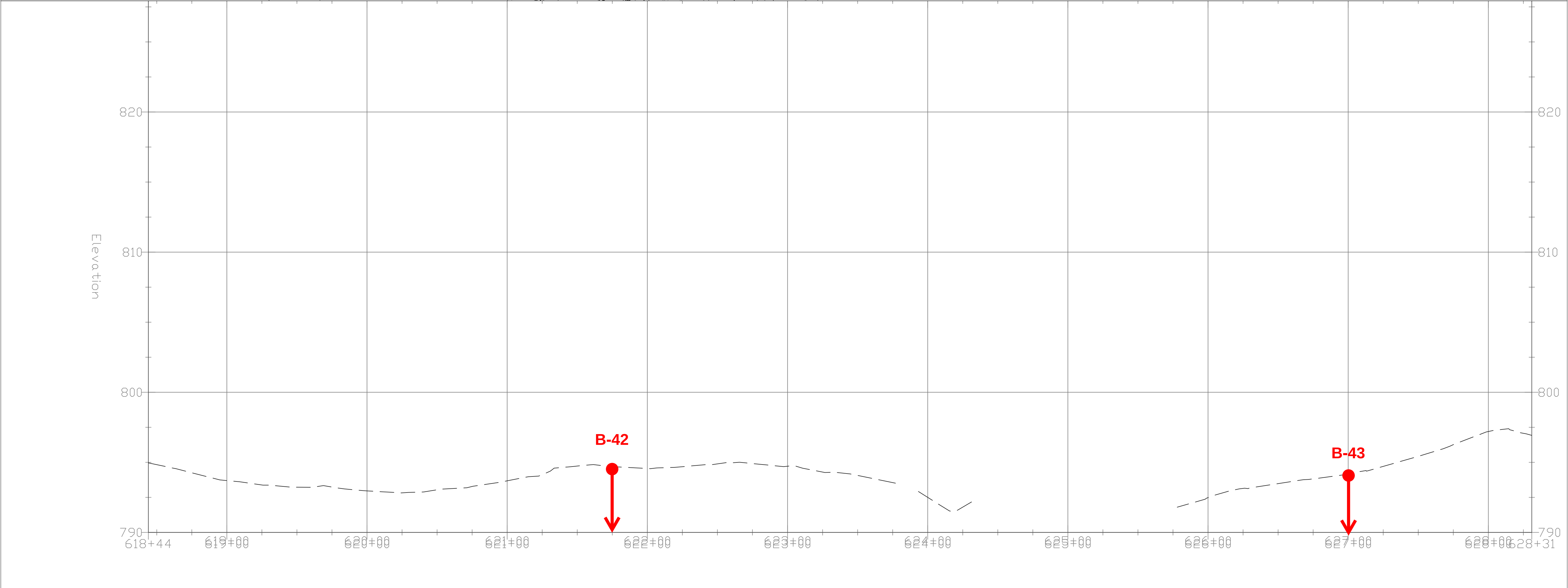
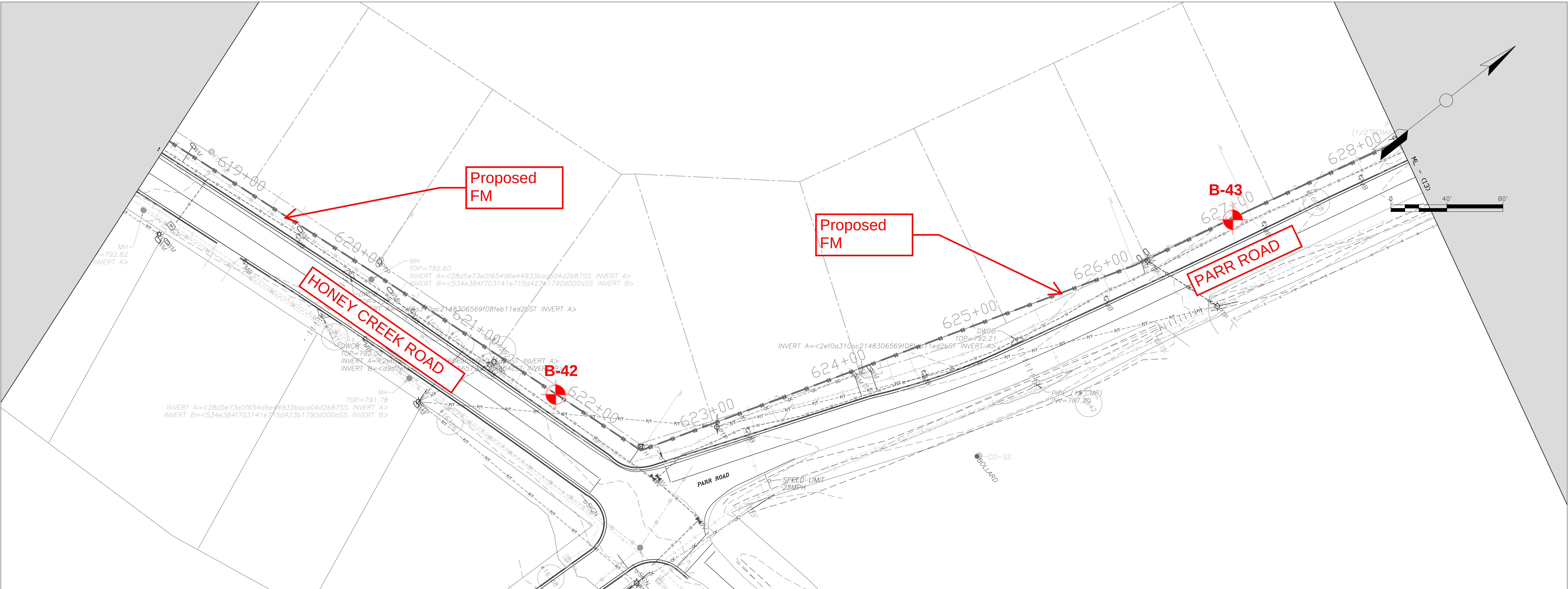
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

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Project	Value	Sheet
Date	11/17/2021	12
Scale	1" = 40'	



General Notes

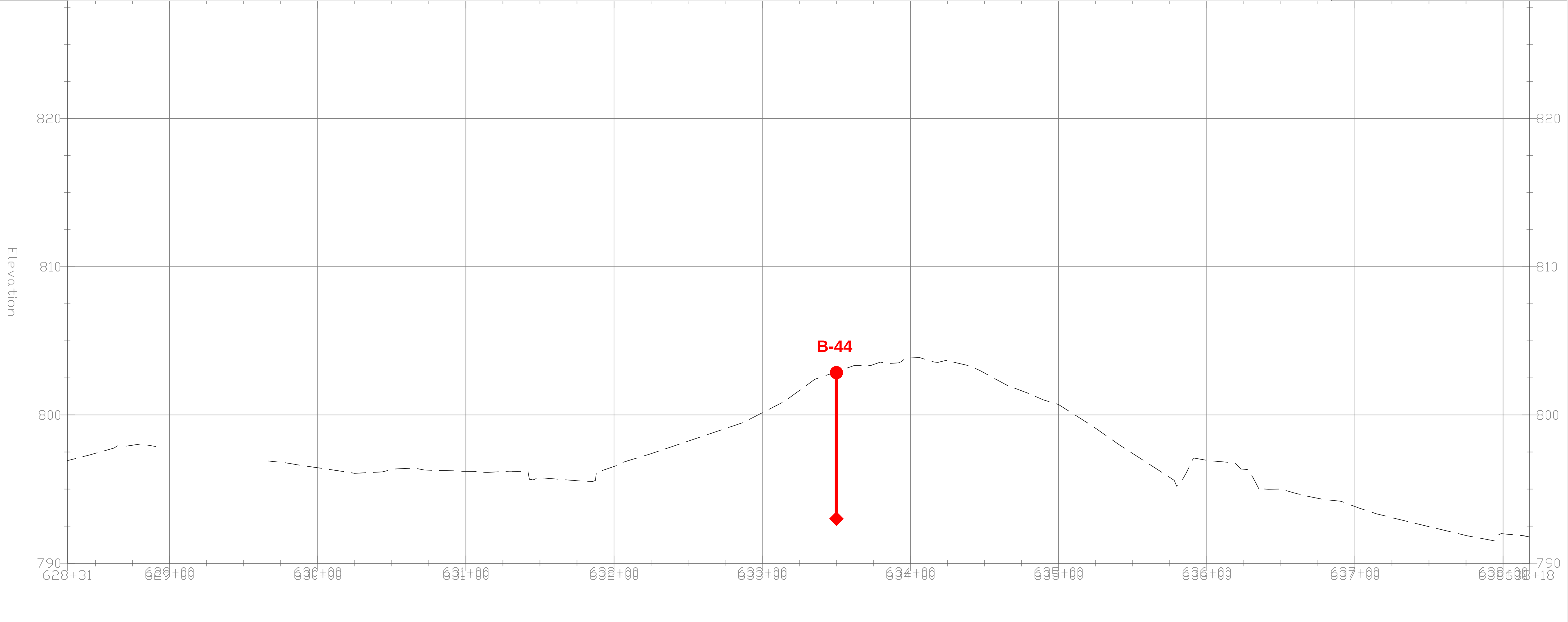
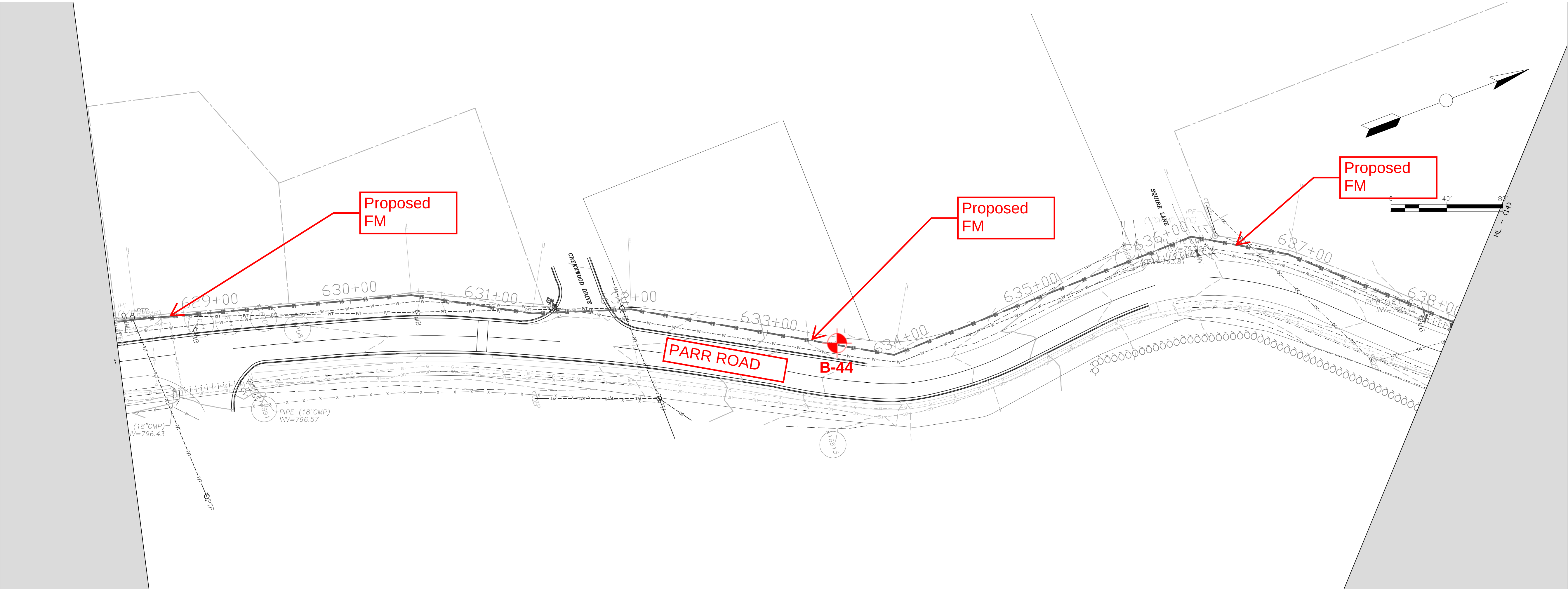
Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.

No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address
Value
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Project	Value	Sheet
Date	11/17/2021	13
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

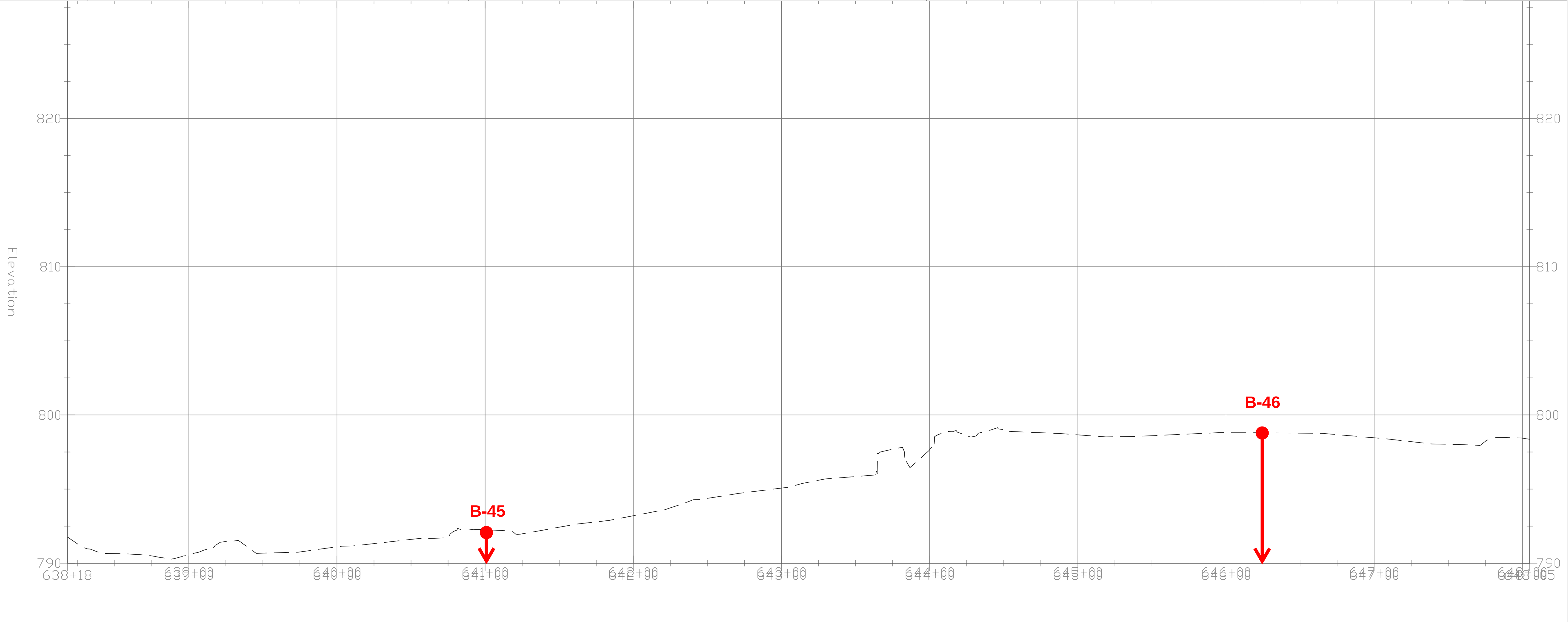
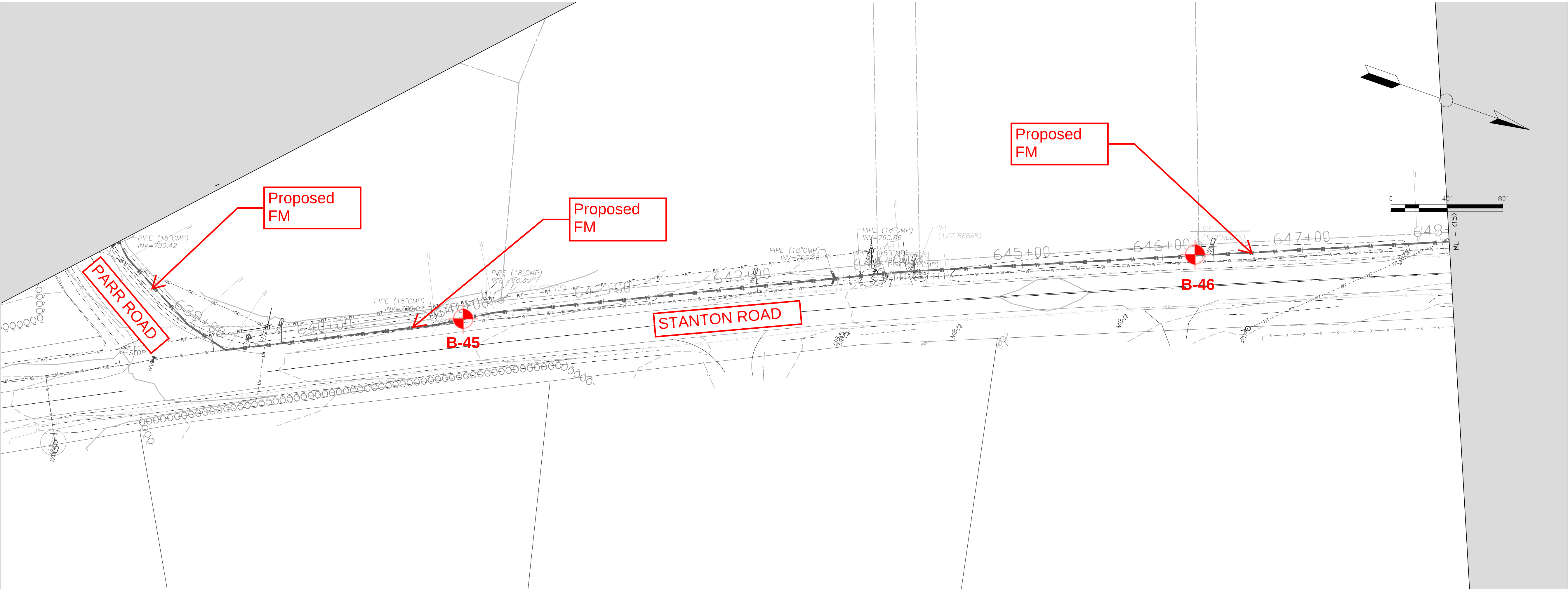
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

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Project	Value	Sheet
Date	11/17/2021	14
Scale	1" = 40'	



General Notes

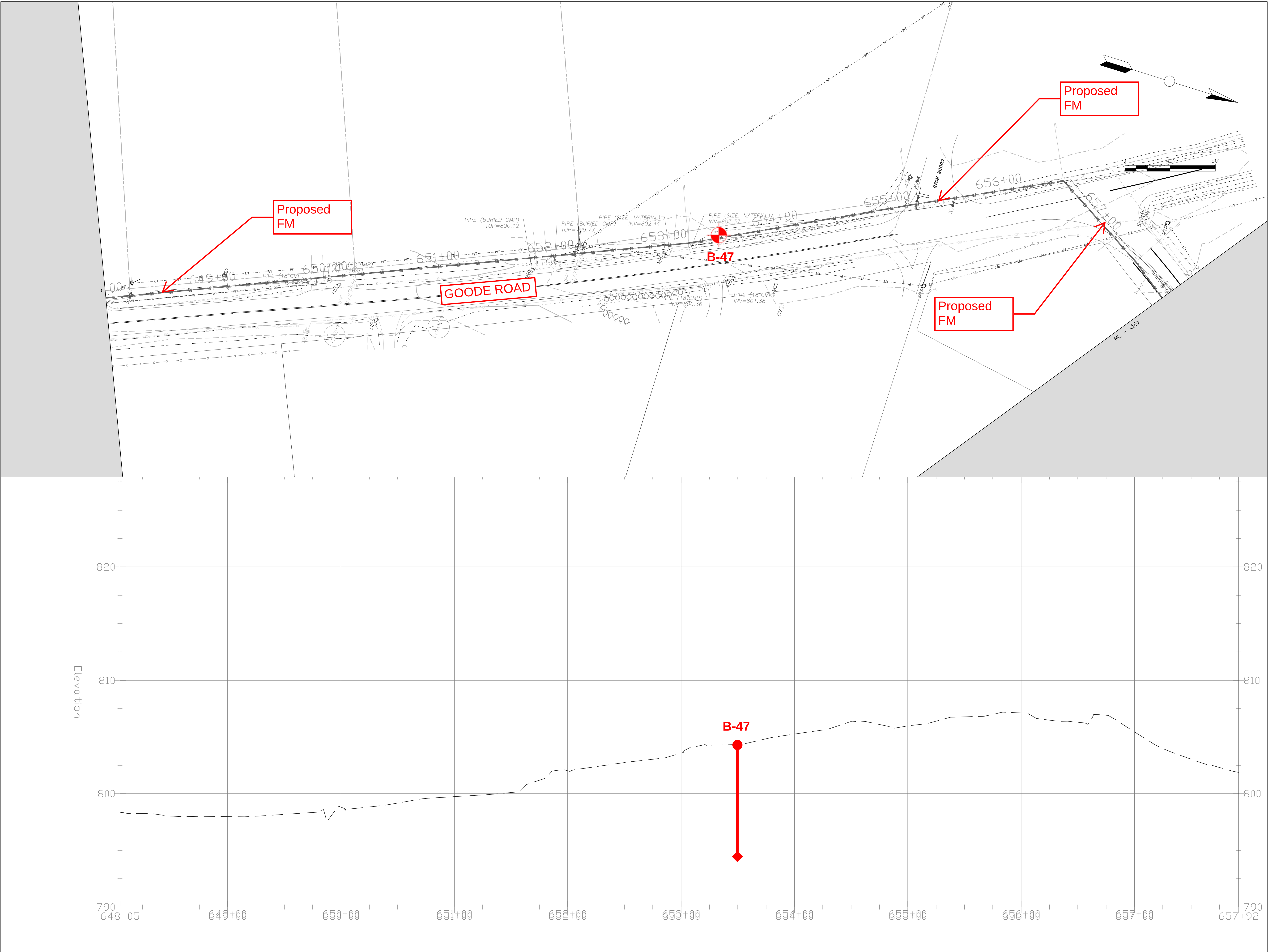
Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.

No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address
Value
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Project	Value	Sheet
Date	11/17/2021	15
Scale	1" = 40'	



General Notes

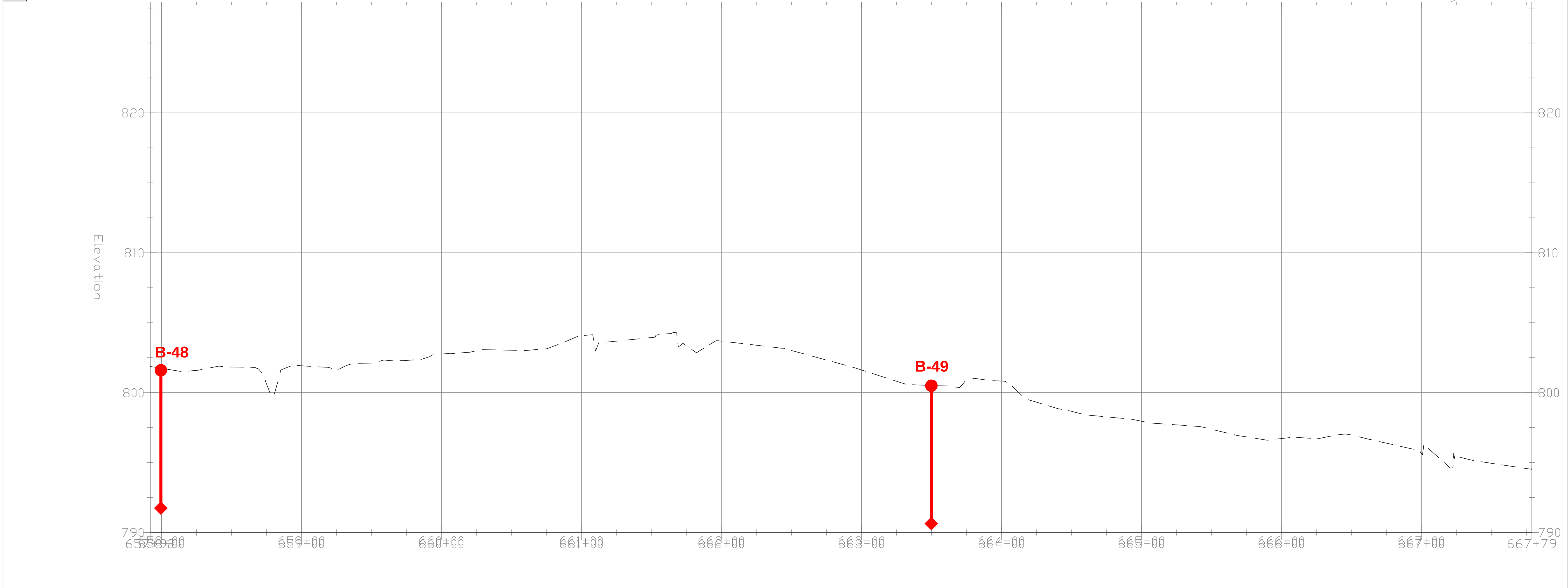
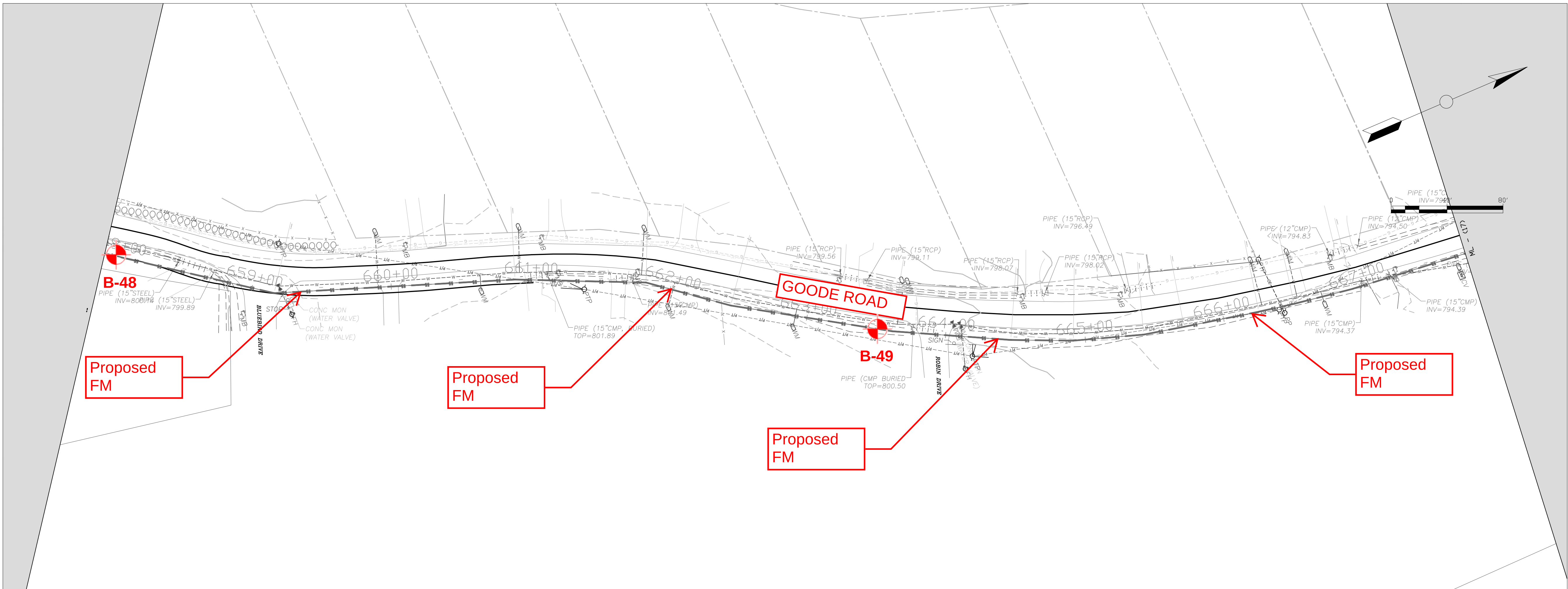
Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address
Value
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Value

Project	Value	Sheet
Date	11/17/2021	16
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

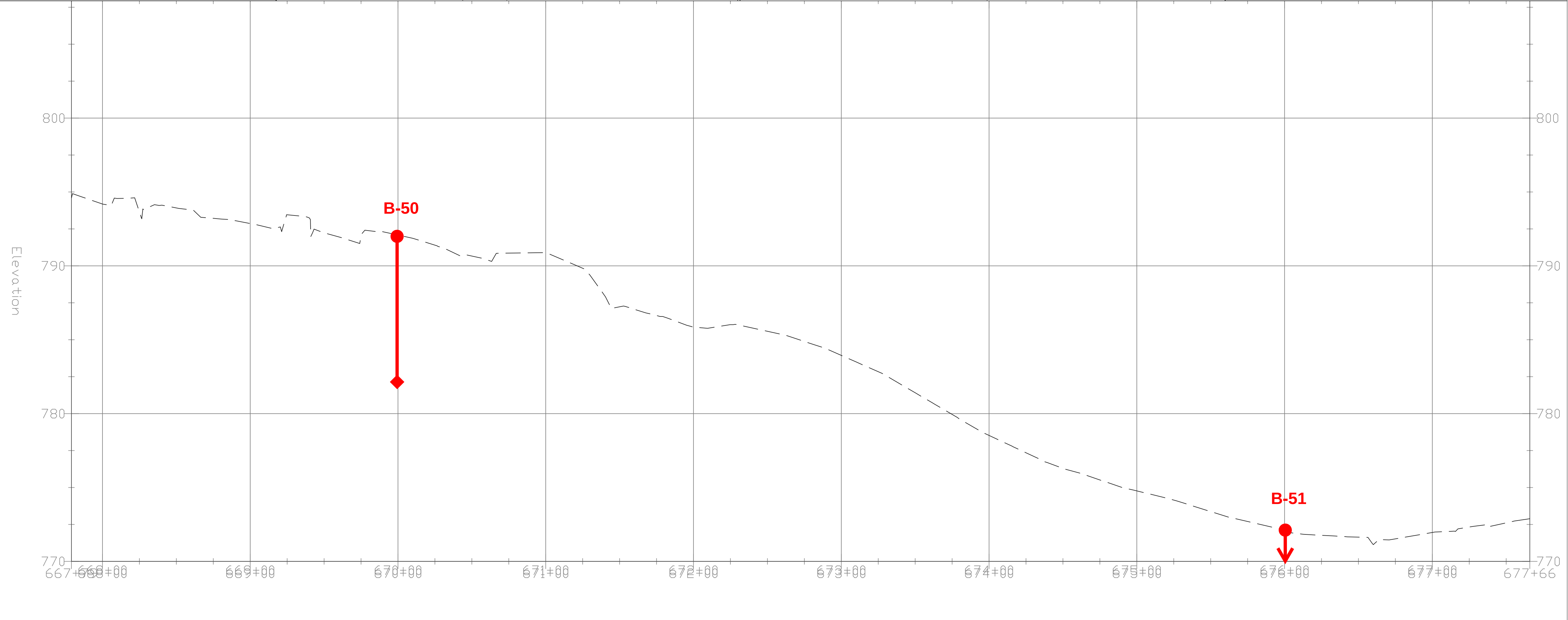
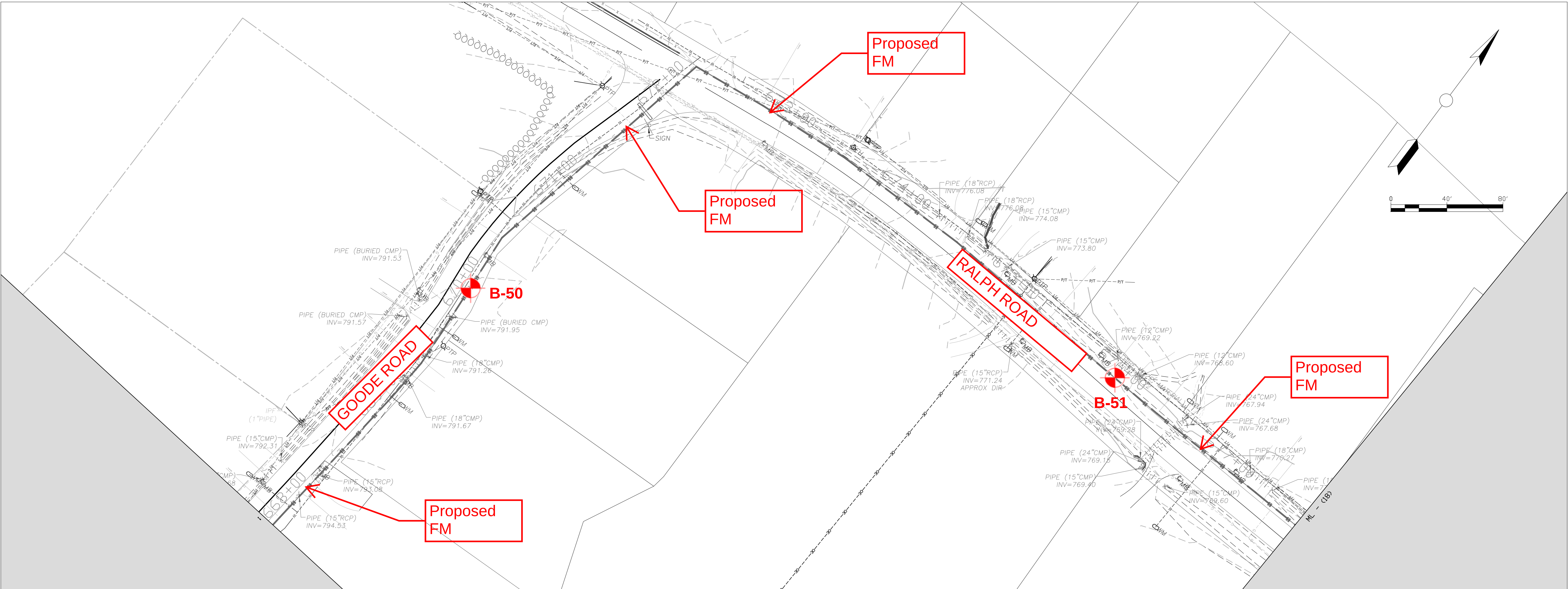
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

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Project	Value	Sheet
Date	11/17/2021	17
Scale	1" = 40'	



General Notes

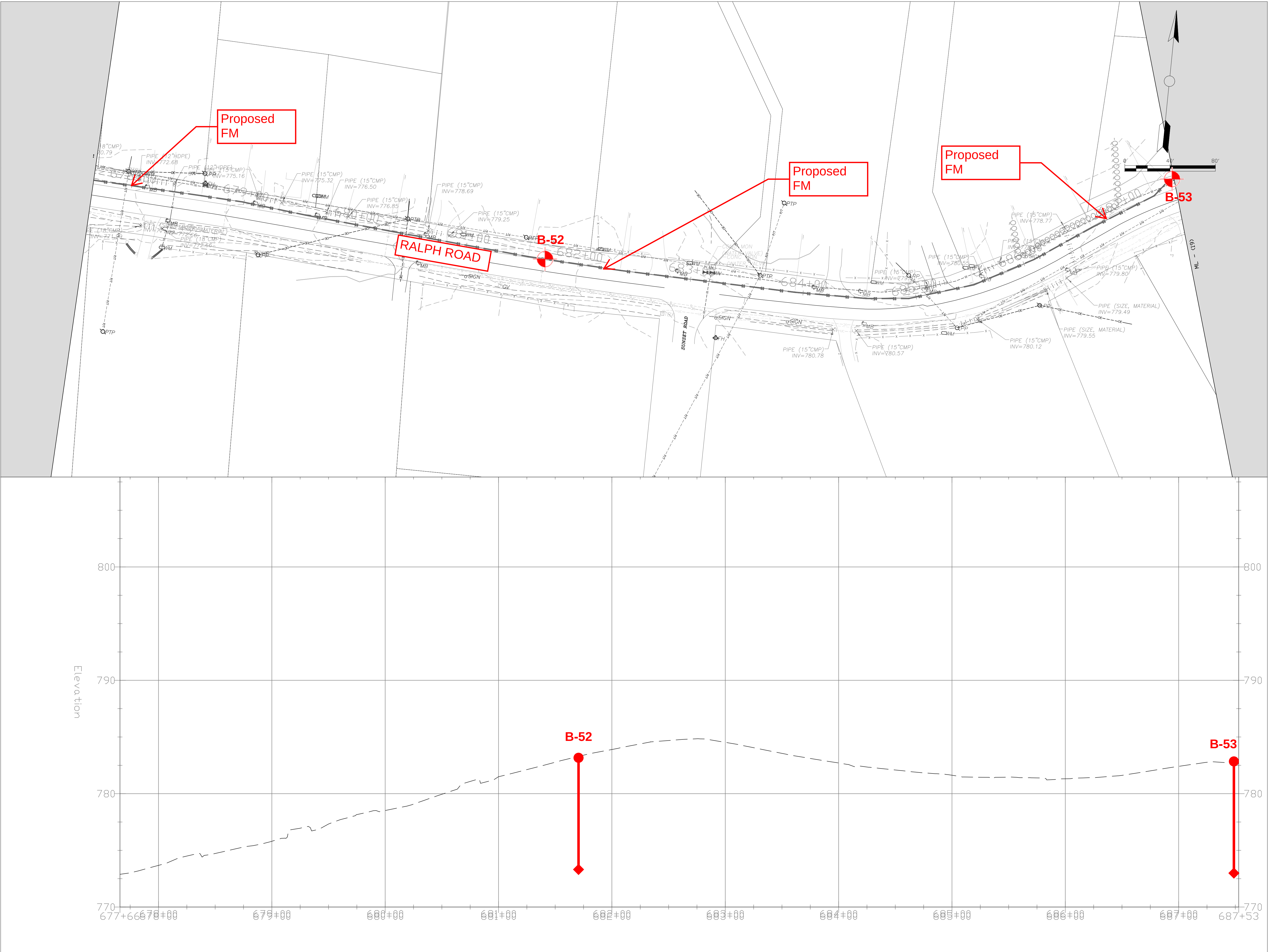
Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address
Value
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Value

Project	Value	Sheet
Date	11/17/2021	18
Scale	1" = 40'	



General Notes

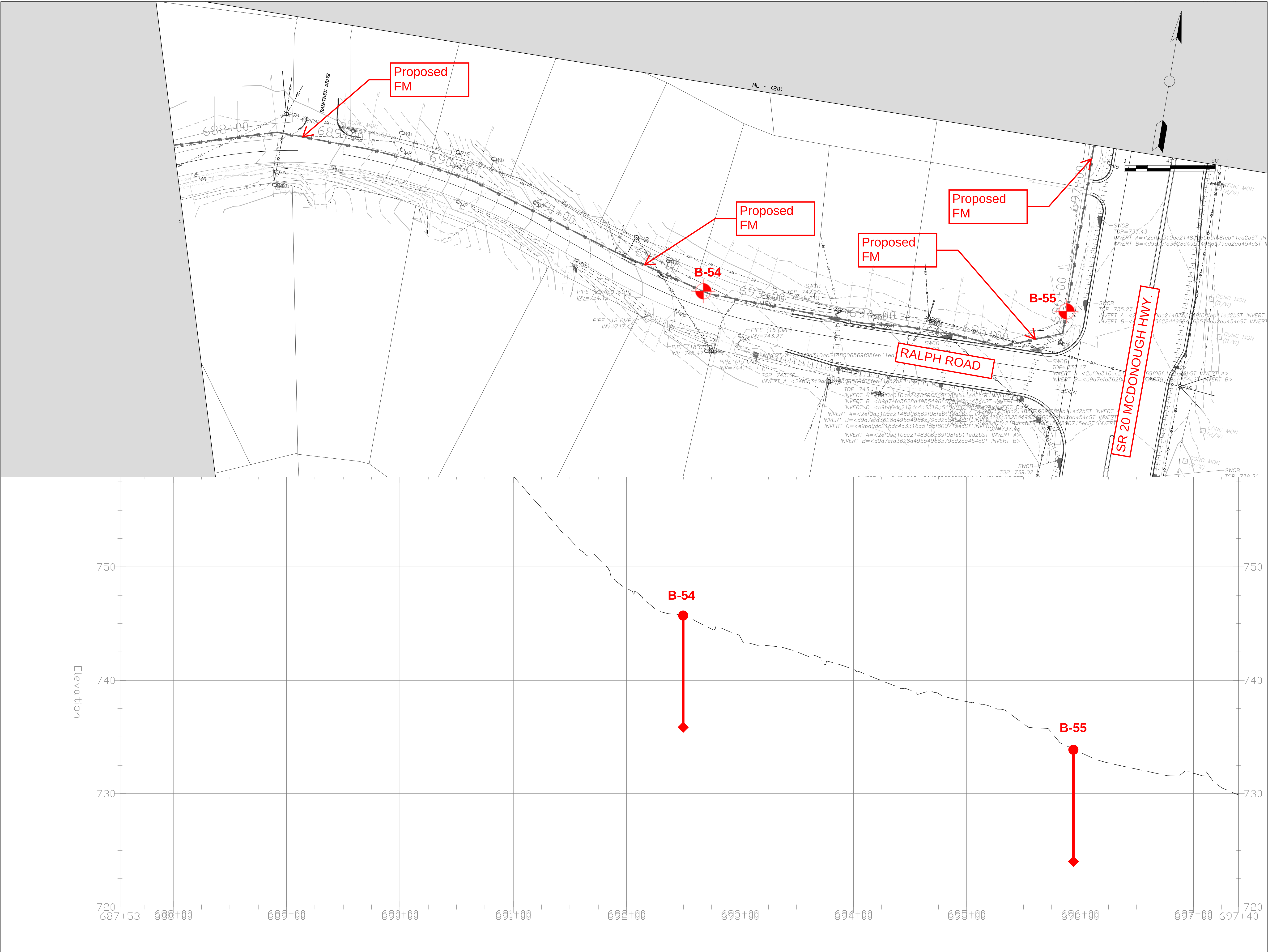
Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.

No.	Revision/Issue	Date

Firm Name and Address

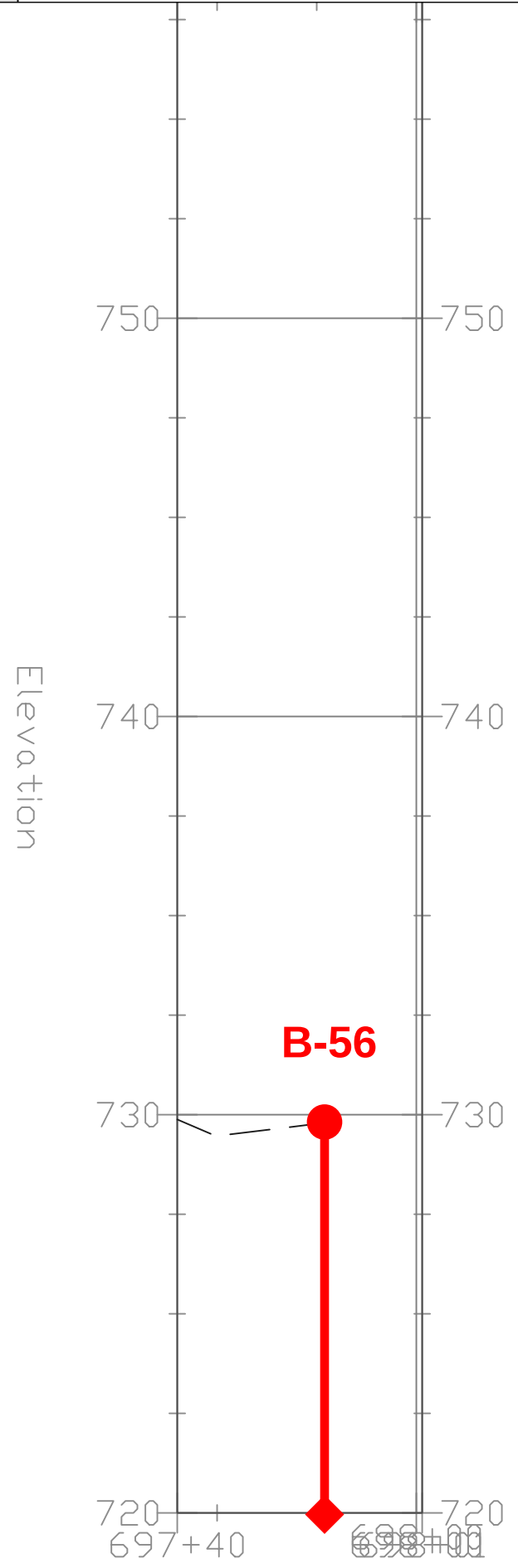
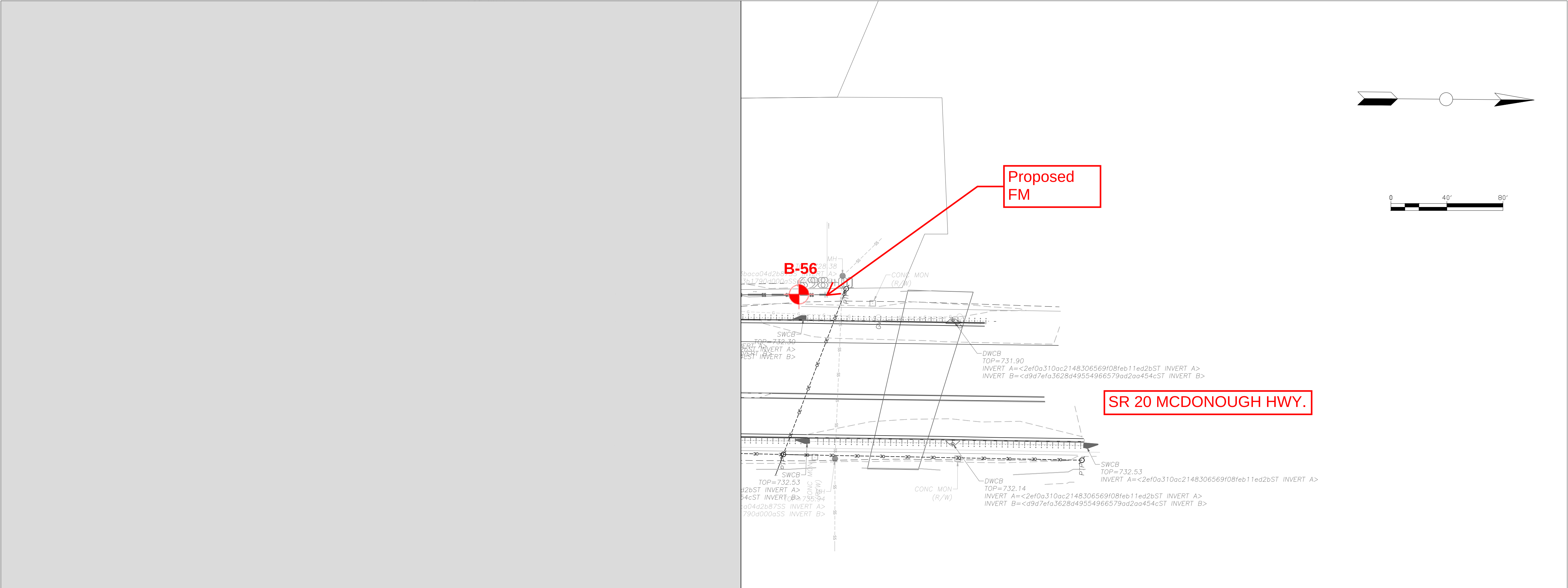
Project Name and Address
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Project	Value	Sheet
Date	11/17/2021	19
Scale	1" = 40'	



Assumed pipe invert at 4-1/2 feet-bgs for the entire pipeline.

General Notes		
No.	Revision/Issue	Date
Firm Name and Address		
Project Name and Address		
Value Value Value Value		
Project	Value	Sheet
Date	11/17/2021	20
Scale	1" = 40'	



General Notes

Assumed pipe
invert at 4-1/2
feet-bgs for the
entire pipeline.

No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

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Value
Value

Project	Value	Sheet
Date	11/17/2021	21
Scale	1" = 40'	

Important Information about This Geotechnical-Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical-engineering study conducted for a civil engineer may not fulfill the needs of a constructor — a construction contractor — or even another civil engineer. Because each geotechnical-engineering study is unique, each geotechnical-engineering report is unique, prepared *solely* for the client. No one except you should rely on this geotechnical-engineering report without first conferring with the geotechnical engineer who prepared it. *And no one — not even you — should apply this report for any purpose or project except the one originally contemplated.*

Read the Full Report

Serious problems have occurred because those relying on a geotechnical-engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

Geotechnical Engineers Base Each Report on a Unique Set of Project-Specific Factors

Geotechnical engineers consider many unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk-management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, do not rely on a geotechnical-engineering report that was:

- not prepared for you;
- not prepared for your project;
- not prepared for the specific site explored; or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical-engineering report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light-industrial plant to a refrigerated warehouse;
- the elevation, configuration, location, orientation, or weight of the proposed structure;
- the composition of the design team; or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an

assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

Subsurface Conditions Can Change

A geotechnical-engineering report is based on conditions that existed at the time the geotechnical engineer performed the study. *Do not rely on a geotechnical-engineering report whose adequacy may have been affected by:* the passage of time; man-made events, such as construction on or adjacent to the site; or natural events, such as floods, droughts, earthquakes, or groundwater fluctuations. *Contact the geotechnical engineer before applying this report to determine if it is still reliable.* A minor amount of additional testing or analysis could prevent major problems.

Most Geotechnical Findings Are Professional Opinions

Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ — sometimes significantly — from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide geotechnical-construction observation is the most effective method of managing the risks associated with unanticipated conditions.

A Report's Recommendations Are Not Final

Do not overrely on the confirmation-dependent recommendations included in your report. *Confirmation-dependent recommendations are not final*, because geotechnical engineers develop them principally from judgment and opinion. Geotechnical engineers can finalize their recommendations *only* by observing actual subsurface conditions revealed during construction. *The geotechnical engineer who developed your report cannot assume responsibility or liability for the report's confirmation-dependent recommendations if that engineer does not perform the geotechnical-construction observation required to confirm the recommendations' applicability.*

A Geotechnical-Engineering Report Is Subject to Misinterpretation

Other design-team members' misinterpretation of geotechnical-engineering reports has resulted in costly

problems. Confront that risk by having your geotechnical engineer confer with appropriate members of the design team after submitting the report. Also retain your geotechnical engineer to review pertinent elements of the design team's plans and specifications. Constructors can also misinterpret a geotechnical-engineering report. Confront that risk by having your geotechnical engineer participate in prebid and preconstruction conferences, and by providing geotechnical construction observation.

Do Not Redraw the Engineer's Logs

Geotechnical engineers prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in a geotechnical-engineering report should *never* be redrawn for inclusion in architectural or other design drawings. Only photographic or electronic reproduction is acceptable, *but recognize that separating logs from the report can elevate risk.*

Give Constructors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can make constructors liable for unanticipated subsurface conditions by limiting what they provide for bid preparation. To help prevent costly problems, give constructors the complete geotechnical-engineering report, *but* preface it with a clearly written letter of transmittal. In that letter, advise constructors that the report was not prepared for purposes of bid development and that the report's accuracy is limited; encourage them to confer with the geotechnical engineer who prepared the report (a modest fee may be required) and/or to conduct additional study to obtain the specific types of information they need or prefer. A prebid conference can also be valuable. *Be sure constructors have sufficient time* to perform additional study. Only then might you be in a position to give constructors the best information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions.

Read Responsibility Provisions Closely

Some clients, design professionals, and constructors fail to recognize that geotechnical engineering is far less exact than other engineering disciplines. This lack of understanding has created unrealistic expectations that have led to disappointments, claims, and disputes. To help reduce the risk of such outcomes, geotechnical engineers commonly include a variety of explanatory provisions in their reports. Sometimes labeled "limitations," many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help

others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

Environmental Concerns Are Not Covered

The equipment, techniques, and personnel used to perform an *environmental* study differ significantly from those used to perform a *geotechnical* study. For that reason, a geotechnical-engineering report does not usually relate any environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated environmental problems have led to numerous project failures.* If you have not yet obtained your own environmental information, ask your geotechnical consultant for risk-management guidance. *Do not rely on an environmental report prepared for someone else.*

Obtain Professional Assistance To Deal with Mold

Diverse strategies can be applied during building design, construction, operation, and maintenance to prevent significant amounts of mold from growing on indoor surfaces. To be effective, all such strategies should be devised for the *express purpose* of mold prevention, integrated into a comprehensive plan, and executed with diligent oversight by a professional mold-prevention consultant. Because just a small amount of water or moisture can lead to the development of severe mold infestations, many mold-prevention strategies focus on keeping building surfaces dry. While groundwater, water infiltration, and similar issues may have been addressed as part of the geotechnical-engineering study whose findings are conveyed in this report, the geotechnical engineer in charge of this project is not a mold prevention consultant; *none of the services performed in connection with the geotechnical engineer's study were designed or conducted for the purpose of mold prevention. Proper implementation of the recommendations conveyed in this report will not of itself be sufficient to prevent mold from growing in or on the structure involved.*

Rely, on Your GBC-Member Geotechnical Engineer for Additional Assistance

Membership in the Geotechnical Business Council of the Geoprofessional Business Association exposes geotechnical engineers to a wide array of risk-confrontation techniques that can be of genuine benefit for everyone involved with a construction project. Confer with you GBC-Member geotechnical engineer for more information.



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