

**HIGH TECH CORRIDOR DEVELOPMENT, LLC
HARRISON COUNTY, WEST VIRGINIA**

WHITE OAKS PASE II A

ADDENDUM #2

OCTOBER 26, 2022

THRASHER PROJECT #T30-11114

TO WHOM IT MAY CONCERN:

A Pre-Bid Conference was held on Wednesday, October 20, 2022, on the above-referenced project. The following are clarifications and responses to questions posed by contractors for the above reference project.

A. GENERAL

1. **THE BID OPENING HAS BEEN EXTENDED UNTIL 2:00 P.M. ON WEDNESDAY NOVEMBER 9, 2022.**
2. **THE BID FORM HAS BEEN REVISED. YOU MUST USE THE REVISED BID FORM WHEN PREPARING YOUR BID PACKAGE FOR THIS PROJECT.**
3. The Work for Phase I will be substantially completed by February 14, 2023, and completed and ready for final payment by February 28, 2023. The Work for Phase II will be substantially completed by April 18, 2023, and completed and ready for final payment by May 2, 2023.

B. SPECIFICATIONS

1. Unit Prices Specification has been revised

C. DRAWINGS

1. The following plan sheets have been updated on this Addendum: Cover, 3, 5-11, 13, 15-18, 29-33, 42, 45, 47, 50-51, 56 and 61.

D. QUESTIONS AND RESPONSES

1. QUESTION

Per Detail "A" on plan sheet 2, the Contractor is to wrap the fabric for separation up along the edges and the outside 2' of the 8" layer of 3" crusher run. Is the additional fabric for this paid for or incidental to the Fabric for Separation bid item?

RESPONSE

The quantity for Separation Fabric has been revised to include this additional fabric.

2. QUESTION

Referring to plan sheets 30 and 31, is the intent to perform the full depth pavement to the dark red line, or beyond that line to the limits of the cross-hatching?

RESPONSE

The intent is to perform the full depth pavement to the dark red line and not beyond. The plan sheets have been revised to reflect this.

3. QUESTION

Plan sheet 31- Is the pipe shown under the Pad 2 Access Road entrance from Wildlife Lane the 18" diameter HDPE?

RESPONSE

Yes

4. QUESTION

Is the 18" pipe outlet from the stormwater basin paid as part of the basin bid item or the 18" pipe item?

RESPONSE

The discharge pipe is incidental to the Stormwater Basin Bid Item.

5. QUESTION

Are end sections required for the pipe outlets (where there is not an inlet or manhole)? If so, what material is required for the end section?

RESPONSE

No end sections are required. Rock outlet protection shall be installed at the outlet of the pipes.

6. QUESTION

What kind of material are the toe keys backfilled with? The Plan Legend refers to them a "Rock Toe Keys" but it appears that the specs and the details are silent on the backfill of the toe-keys. If rock is required, will the Owner consider adding bid item(s) for using on-site and importing rock?

RESPONSE

The Toe Key Benches will be backfilled with engineered soil fill. The legend has been revised to indicate Toe Key Benches instead of Rock Toe Keys.

7. QUESTION

Plan Sheet 57, Typical Toe Key Detail, Note 6 says that bonding bench drains should be constructed at maximum 10' vertical intervals in soil. Are the required bonding bench drains incidental to the Toe Key Bench bid item or should there be an additional bid item for the bonding bench drains?

RESPONSE

The Bonding Bench Drains shall be incidental to the Toe Key Bench Bid Item. This is stated in the unit price section of the specifications.

8. QUESTION

Are there any work/noise restrictions for night, evening, weekend, and holiday work on the project inside the Bridgeport City Limits?

RESPONSE

The City of Bridgeport does not have a noise ordinance nor are there work restrictions for night, evening, weekend or holidays.

9. QUESTION

Where onsite can any unsuitable soil/waste be disposed?

RESPONSE

The intent of the plans is to blend any unsuitable fill material with suitable onsite material in order to meet the engineered fill specification. However, this does not apply to organic material such as topsoil, roots, etc.

10. QUESTION

Are there any methods for stabilizing wet materials during the winter months?

RESPONSE

The Contractor will be responsible for meeting the moisture and compaction specifications. Means and methods for this shall be on the Contractor. Any moisture concerns related to weather will be handled under the abnormal weather as defined in the specifications.

11. QUESTION

Is the owner providing survey stake out as well as all quality control?

RESPONSE

The Owner will provide onsite inspection and material testing during construction. The Owner shall provide 3 onsite control points and the Cadd Files for the design. The Contractor shall be responsible for stake out during construction.

12. QUESTION

If there is insufficient rock quantity available on site will there be a change order issued for the purchase of offsite aggregate?

RESPONSE

The Rock Core Drains and Pond Backfill Rock bid items have an item for onsite material and import material. The measurement and payment for these items are defined in the Unit Price Specification.

13. QUESTION

Is First Energy providing all electrical hookups and pulling wire in electric conduit, if needed?

RESPONSE

The Contractor shall be responsible for installing the conduit, pull ropes, and switch gear vaults. No wire is included in this contract. The switch gear vaults shall be provided by First Energy.

14. QUESTION

Will time extensions be issued due to supply chain material shortages, if realized?

RESPONSE

The substantial and final completion dates will be held.

15. QUESTION

All permits been issued for this project?

RESPONSE

All permits are on schedule to be in hand prior to NTP.

16. QUESTION

Can access to core borings be made available to the contractors for bidding?

RESPONSE

A Geotech Report is available for the project at request of the Contractor.

17. QUESTION

Bid Item 3, Demolition and Traffic Control: What other than some existing sewer line that will be replaced will be demolished? Can you please provide a WVDOH Traffic Case we are to use for traffic control?

RESPONSE

Demolition shall include the asphalt and curbing at the entrance to Pad 3, the existing sewer line, and the existing stormwater pond riser and barrel structure. The Contractor will be required to keep access along Wildlife Lane during construction for local traffic. Case A2 would apply for this work. Traffic will need to be controlled to construct the entrance from White Oaks Blvd. to Pad 3. Closing the right lane until work does not encroach on the road would be the preferred traffic control.

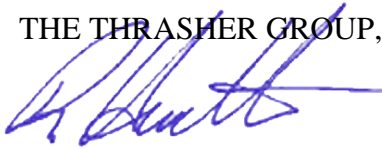
E. CLARIFICATIONS

1. A final Addendum will be released next week to include 2 core borings along the back edge of Pad 1. These borings will extend to the proposed pad elevation.
2. The substantial and final completion dates for Pad 1 have been extended to help accommodate any delays with air quality permitting.

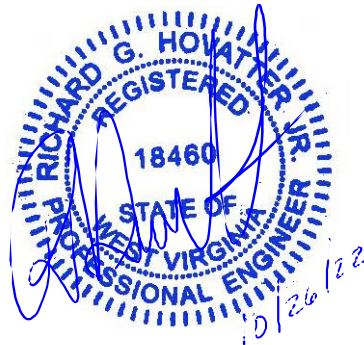
If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received **until 2:00 p.m. on Wednesday, November 9, 2022**, at The Thrasher Group, 600 White Oaks Blvd, Bridgeport, WV 26330. Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.



Richard Hovatter, PE
Senior Project Manager



BID FORM FOR CONSTRUCTION CONTRACT

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 1—OWNER AND BIDDER

1.01 This Bid is submitted to:

*High Tech Corridor Development, LLC
P.O. Box 940
600 White Oaks Blvd.
Bridgeport, WV 26330*

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2—ATTACHMENTS TO THIS BID

2.01 The following documents are submitted with and made a condition of this Bid:

A. Bid Opening Requirements

ARTICLE 3—BASIS OF BID—LUMP SUM BID AND UNIT PRICES

GENERAL

The Bidder shall take notice of and shall be responsible for any local or state taxes levied and applicable, and the cost for the same shall be included as part of the submitted Bid.

The total Bid cost stated includes a complete operating installation including furnishing and installation of any and all changes or additions in plans, piping, mechanical work, additional electrical work, accessories, controls, etc. necessary to accommodate alternative equipment systems or materials used in construction.

BID PROPOSAL

The Bidder agrees to perform all required Work described in the detailed Specifications and as shown on the Plans for the complete construction and placing in satisfactory operation the White Oaks Phase II A. The Project "Sequence of Construction" has been detailed in the Drawings and Specification Division 1, Project Summary, Section 011000. The Bidder agrees to perform all the Work proposed for the total of the following Bid prices.

3.01 *Lump Sum Bids*

A. Bidder will complete the Work in accordance with the Contract Documents for the lump sum (stipulated) price(s), together with any Unit Prices indicated in Paragraph 3.02 and shown in the bid schedule.

- B. Lump Sum Bids may be one of the following:
 - 1. Lump Sum Price (Single Lump Sum)
 - 2. Lump Sum Price (Base Bid and Alternates)
 - 3. Lump Sum Price (Sectional Lump Sum Bids)
- C. All specified cash allowance(s) are included in the price(s) set forth in the bid schedule, and have been computed in accordance with Paragraph 13.02 of the General Conditions.
- D. All specified contingency allowances are included in the price(s) set forth in the bid schedule, and have been computed in accordance with Paragraph 13.02 of the General Conditions.

3.02 *Unit Price Bids*

- A. Bidder will perform the following Work at the indicated unit prices as shown in the Bid Schedule.
- B. Bidder acknowledges that:
 - 1. each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and
 - 2. estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.

3.03 *Total Bid Price (Lump Sum and Unit Prices)*

BID SCHEDULE

**PROPOSED
 WHITE OAKS PHASE II A
 FOR THE**

**HIGH TECH CORRIDOR DEVELOPMENT, LLC
 HARRISON COUNTY, WEST VIRGINIA**

NOTE: Bid PRICE amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern. Bids shall include sales tax and all other applicable taxes and fees.

Item #	Qty.	UNIT	DESCRIPTION	UNIT PRICE	UNIT PRICE WRITTEN IN WORDS	TOTAL PRICE
1	1	LS	SITE CLEARING			
2	1	LS	MOBILIZATION/DEMOBILIZATION			
3	1	LS	DEMOLITION AND TRAFFIC CONTROL			
4	352,000	CY	EARTH MOVING			

Item #	Qty.	UNIT	DESCRIPTION	UNIT PRICE	UNIT PRICE WRITTEN IN WORDS	TOTAL PRICE
5	1,000	LF	ROCK CORE DRAIN (5'X5') - ON SITE MATERIAL			
6	1,000	LF	ROCK CORE DRAIN (5'X5') - IMPORT MATERIAL			
7	780	LF	TOE-KEY BENCH			
8	4,500	CY	POND OVER EXCAVATION			
9	4,500	CY	POND BACKFILL ROCK - ON SITE MATERIAL			
10	4,500	CY	POND BACKFILL ROCK - IMPORT MATERIAL			
11	3	EA	STABILIZED CONSTRUCTION ENTRANCE			

Item #	Qty.	UNIT	DESCRIPTION	UNIT PRICE	UNIT PRICE WRITTEN IN WORDS	TOTAL PRICE
12	3,475	LF	PRIORITY 1 SILT FENCE			
13	100	EA	ORANGE SAFETY FENCE			
14	500	LF	COMPOST FILTER SOCK INLET PROTECTION			
15	2	EA	SEDIMENT TRAP			
16	1	EA	COMPOST FILTER SOCK SEDIMENT TRAP			
17	1	LS	EXISTING POND DEWATERING			
18	10	EA	ROCK LINED SUMP (3'X3'X3')			

Item #	Qty.	UNIT	DESCRIPTION	UNIT PRICE	UNIT PRICE WRITTEN IN WORDS	TOTAL PRICE
19	3,860	LF	VEGETATED PAD DITCH			
20	5	EA	PIPE SLOPE DRAIN			
21	7	EA	RIP RAP ENERGY DISSIPATOR			
22	1	EA	STORMWATER BASIN			
23	31	AC	SEED AND MULCH			
24	3,540	SY	FABRIC FOR SEPARATION			
25	380	CY	SUBGRADE			

Item #	Qty.	UNIT	DESCRIPTION	UNIT PRICE	UNIT PRICE WRITTEN IN WORDS	TOTAL PRICE
26	6,843	SF	MILLING OF EXISTING PAVEMENT			
27	100	GAL	BITUMINOUS TACK COAT MATERIAL			
28	130	CY	AGGREGATE BASE COURSE, CLASS 1			
29	40	CY	AGGREGATE BASE COURSE, CLASS 10 (SHOULDER)			
30	620	CY	3" CRUSHER RUN			
31	380	TN	MARSHALL HOT-MIX ASPHALT SKID RESISTANT, TYPE I			
32	620	TN	MARSHALL HOT-MIX ASPHALT BASE COURSE, TYPE I			

Item #	Qty.	UNIT	DESCRIPTION	UNIT PRICE	UNIT PRICE WRITTEN IN WORDS	TOTAL PRICE
33	190	TN	MARSHALL HOT-MIX ASPHALT BASE COURSE, TYPE II			
34	100	LF	CONCRETE CURB AND GUTTER			
35	12	EA	CONCRETE MANHOLE (4' DIAMETER)			
36	10	EA	CONCRETE INLET (WVDOH TYPE G)			
37	100	LF	UNDERDRAINS			
38	70	LF	18" HDPE CULVERT			
39	2,110	LF	24" HDPE STORMWATER PIPE			

Item #	Qty.	UNIT	DESCRIPTION	UNIT PRICE	UNIT PRICE WRITTEN IN WORDS	TOTAL PRICE
40	18	EA	CONCRETE STORMWATER PIPE ANCHORS			
41	1	EA	LIGHT POLE RELOCATION			
44	650	LF	8" SDR 35 GRAVITY SEWER PIPE			
45	2	EA	SANITARY SEWER TIE-IN, COMPLETE			
46	18	EA	CONCRETE SEWER PIPE ANCHORS			
47	1	EA	E1 GRINDER LIFT STATION			
48	145	LF	3" ELECTRICAL CONDUIT			

Item #	Qty.	UNIT	DESCRIPTION	UNIT PRICE	UNIT PRICE WRITTEN IN WORDS	TOTAL PRICE
49	700	LF	1 1/2" PVC SDR-9 FORCE MAIN PIPE			
50	200	LF	ELECTRIC DUCT BANK			
51	1	EA	SWITCH GEAR MANHOLE BOX INSTALLATION			
52	260	EA	WATERLINE TIE-IN/HOT TAP, COMPLETE			
53	3	LF	8" PVC C-900 DR-14 WATERLINE			
54	2	EA	8" X 8" X8" WATERLINE TEE W/ THRUST BLOCK			
55	300	EA	8" WATER GATE VALVE AND CAP			

Item #	Qty.	UNIT	DESCRIPTION	UNIT PRICE	UNIT PRICE WRITTEN IN WORDS	TOTAL PRICE
56	2	EA	FIRE HYDRANT ASSEMBLY, COMPLETE			
57	90	LF	6" STEEL CASING			
58	30	LF	16" STEEL CASING			

TOTAL BID: _____
 (Words)

_____ (\$ _____)
 (Words) (Figures)

(Amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

3.04 *Method of Award*

If at the time this contract is to be awarded, the lowest total bid submitted by a qualified, responsive, responsible Bidder does not exceed the amount of funds then estimated by the Owner, as available to finance the contract, the construction contract will be awarded. If such bids exceeds such amount, the owner may reject all bids.

~~ARTICLE 4—BASIS OF BID—COST PLUS FEE~~

Deleted

~~ARTICLE 5—PRICE PLUS TIME BID~~

Deleted

ARTICLE 6—TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.02 **Deleted**

6.03 **Deleted**

6.04 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7—BIDDER’S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

7.01 *Bid Acceptance Period*

A. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

7.02 *Instructions to Bidders*

A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

7.03 *Receipt of Addenda*

A. Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Addendum Date

ARTICLE 8—BIDDER’S REPRESENTATIONS AND CERTIFICATIONS

8.01 *Bidder’s Representations*

A. In submitting this Bid, Bidder represents the following:

1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs.
7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

8.02 *Bidder's Certifications*

A. The Bidder certifies the following:

1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.
2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.

3. Bidder has not solicited or induced any individual or entity to refrain from bidding.
4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:
 - a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.
 - b. Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.
 - c. Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.
 - d. Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

BIDDER hereby submits this Bid as set forth above:

Bidder:

(typed or printed name of organization)

By: _____
(individual's signature)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Date: _____
(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest: _____
(individual's signature)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Date: _____
(typed or printed)

Address for giving notices:

Bidder's Contact:

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Phone: _____

Email: _____

Address: _____

Bidder's Contractor License No.: (if applicable)

SECTION 012200 - UNIT PRICES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for unit prices.

1.2 DEFINITIONS

- A. Unit price is an amount incorporated into the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.3 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- C. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

- A. Site Clearing:
 - 1. Description: Site Clearing according to Section 311000 "Site Clearing." This payment shall constitute full compensation for labor, materials, equipment, and other costs associated with this work.
 - 2. Unit of Measurement: Lump Sum
- B. Mobilization/Demobilization:

1. Description: the mobilization item shall be paid as follows:
 1. Mobilization 50%
 2. Demobilization 50%
2. Construction Stakeout
 1. The cost of this work shall be included in the lump sum bid item for Mobilization/Demobilization. This bid item shall include both on-and-off-site construction.
 2. Contractor shall provide all stakeout for on-site construction. Those items shall verify all storm and sewer structure elevations to assure that structures will be able to be installed at the correct elevations.
 1. Any other on-site items needing verified prior to the start of construction.
 2. All discrepancies discovered by the contractor shall be disclosed to the Engineer immediately.
3. Unit of Measurement: Lump Sum

C. Demolition and Traffic Control

1. Description: Demolition according to Section 024116 "Structure Demolition."
2. Demolition shall include the work necessary to remove and dispose of the existing structures indicated on the plans and any existing utilities that may be present at their location. Demolition shall also include the work necessary to remove and dispose of any asphalt, existing pond riser and discharge structure, sanitary sewer, or other items required to complete the work and any associated traffic control requirements to complete the work. Demolition shall be paid for by the lump sum unit bid price for Demolition and Traffic Control. This shall include all labor, materials, overhead, profit, inspection, etc. for the demolition of the structures indicated on the plans.
3. Unit of Measurement: Lump Sum

D. Earth Moving:

1. Description: Earth Moving according to Section 312000 "Earth Moving."
2. All earth moving in this contract is unclassified "No Rock Clause". Earth Moving includes all excavation of materials and borrowing of suitable materials as necessary to accommodate construction and shall be paid for under the unit bid price for Earth Moving, based on the cubic yard quantity.
3. Earth Moving for all construction shall be included in the bid prices requiring excavation or fill activity.
4. The cost for topsoil removal, handling, stockpiling, waste, and re-distribution shall be incidental to the unit bid price for Earth Moving.
5. The cost of earth moving associated with the construction of the pads shall be paid for by the Earth Moving unit bid price, based on the cubic yard quantity. This shall include all labor, materials, overhead, profit, etc. for the excavation, disposal of unsuitable material, rock fill required to: adjust rough grading underneath roadways to correct bottom of subgrade elevation prior to the placement of roadway subgrade courses.
6. Earthwork will be paid based on the 352,000 cubic yard bid quantity. If the Contractor has claims for additional payment for overrun of the Earth Moving quantity, the Contractor shall provide the appropriate pre and post construction survey data justifying such claim to the satisfaction of the Engineer.
7. Unit of Measurement: Cubic Yard

E. Rock Core Drains

1. Description: The Contractor shall be responsible for removing all organic material encountered along existing ditches before installing rock core drains before commencing filling activities. This material shall be wasted on site at a location approved by the Owner or mixed with cut material and incorporated into the fill if approved by the Engineer. This material is incidental to the Rock Core Drain unit bid price.
2. The Rock Core Drains shall be installed in a manner as to provide positive drainage into the pond backfill rock.
3. Rock core drains shall be constructed in all existing water channels onsite before fill operations begin as shown on the plans. The Contractor shall supply two bid prices for this work. One price shall be reflective of performing this work using onsite material and shall include all labor, fabric, overhead, profit, etc. for the placement of the onsite rock fill and fabric required to construct the rock core drains. No cost should be include for the rock material as it is paid for under the Earth Moving pay item. This item shall be paid for under the unit bid price per linear foot for Rock Core Drains Using Onsite Material. The second price shall be reflective of performing this work using imported material and shall include all labor, materials, delivery, overhead, profit, etc. for the placement of the imported rock fill and fabric required to construct the rock core drains. This item shall be paid for under the unit bid price per linear foot for Rock Core Drains Using Imported Material.
4. Unit of Measurement: Linear Foot

F. Toe Key Bench

1. Description: A toe-key bench shall be constructed in accordance with the recommendations of the geotech report provided.
2. The excavation and construction of the keyway shall be included in the unit bid price for Toe-Key Bench. This shall include all labor, materials, overhead, profit, etc. for the excavation, disposal of unsuitable material, bench drain and conveyance pipe, bonding benches, and other work necessary to construct the Toe-Key Benches.
3. Unit of Measurement: Linear Foot

G. Pond Over Excavation

1. Description: The existing stormwater pond is to be over excavated to a depth of 5 feet. The material removed from this excavation shall be dried, mixed, and incorporated into the fill as suitable material as approved by the Engineer.
2. Pond Over Excavation shall be paid for by the cubic yard unit bid price for Pond Over Excavation. This shall include all labor, materials, overhead, profit, excavation, mixing, etc. for the removal of the pond material.
3. Unit of Measurement: Cubic Yard

H. Pond Backfill Rock

1. Description: The over excavation of the existing pond shall expose the top of the existing core drain. The pond shall be backfilled with 6" to 24" stone in a manner as to provide positive drainage to the existing rock core drain.
2. The Contractor shall supply two bid prices for this work. One price shall be reflective of performing this work using onsite material and shall include all labor, fabric, overhead, profit, etc. for the placement of the onsite rock fill required to construct the pond backfill.

No cost should be include for the rock material as it is paid for under the Earth Moving pay item. This item shall be paid for under the unit bid price per cubic yard for Pond Backfill Rock Using Onsite Material. The second price shall be reflective of performing this work using imported material and shall include all labor, materials, delivery, overhead, profit, etc. for the placement of the imported rock fill required to construct the pond backfill. This item shall be paid for under the unit bid price per cubic yard for Pond Backfill Rock Using Imported Material.

3. Unit of Measurement: Cubic Yard

I. Erosion and Sediment Control:

1. Description: Erosion and Sediment Controls will be based upon the various unit bid prices which includes, but is not limited to: construction entrances, rock lined sump, inlet protection, rock ditch check dams, grass lined ditches, rock lined ditches, sediment basins, stormwater management ponds, swale sediment cells, silt fence, pad edge berms, and other measures necessary to carry out the erosion and sediment control plan throughout the duration of the project.
2. The contractor shall be required to adjust and maintain all erosion and sediment control devices measures in accordance with the WVDEP BMP manual to prevent sediment from leaving the construction site until 70% vegetation has been established throughout the project site. No additional payment will be made for adjustments or maintenance of erosion and sediment controls regardless of weather.
3. If a notice of violation is given by the WVDEP, the Contractor shall be responsible for paying all associated fines.
4. The Contractor is responsible for complying with the intent of the erosion and sediment control plan and may be required to increase or modify erosion and sediment control measures based on field conditions and/or staging of work. No additional payment will be made for additional measures required to comply with the approved plan.
5. Stabilized Construction Entrances shall be installed as shown on the plans. Construction Entrances shall be paid for by the Stabilized Construction Entrance unit bid price for each. This shall include all labor, materials, overhead, profit, etc. for the installation of the Construction Entrances.
6. **Priority 1 Silt Fence shall be installed at the location shown on the plans. Priority 1 Silt Fence shall be paid for by the linear foot unit bid price for Priority 1 Silt Fence. This shall include all labor, materials, overhead, profit, etc. for the installation of the Priority 1 Silt Fence.**
7. Orange Safety Fence shall be installed at the location shown on the plans. Orange Safety Fence shall be paid for by the linear foot unit bid price for Orange Safety Fence. This shall include all labor, materials, overhead, profit, etc. for the installation of the Orange Safety Fence.
8. Compost Filter Sock Inlet Protection shall be installed at each inlet as shown on the plans. Inlet Protection shall be paid for by the unit bid price by the linear foot for Compost Filter Sock Inlet Protection installed. This shall include all labor, materials, overhead, profit, etc. for the installation of the Compost Filter Sock Inlet Protection.
9. Sediment Trap shall be installed in the locations as shown on the plans. Sediment Trap shall be paid for by the Sediment Trap unit bid price for each. This shall include all labor, materials, overhead, profit, etc. for the installation of the Sediment Trap and outlet structure.
10. **Compost Filter Sock Sediment Trap shall be installed on the pad where surface drainage will enter the rock core drains as fill progresses. This is to reduce the amount of sediment**

entering the rock core drains during construction. Compost Filter Sock Sediment Trap shall be paid for by the unit bid price for each. This shall include all labor, materials, overhead, profit, etc. for the installation and progressive relocation of the Compost Filter Sock Sediment Trap.

11. Existing Pond Dewatering shall be necessary to dewater the existing stormwater pond prior to the over excavation. Existing Pond Dewatering shall be paid for by the lump sum unit price for Existing Pond Dewatering. This shall include all labor, materials, overhead, profit, etc. for the pumping of the existing water through a sediment filter bag.
12. Vegetated Pad Ditch shall be installed at all ditch locations less than an 8% flow slope. Vegetated Pad Ditch shall be paid for by the linear foot unit bid price for Vegetated Pad Ditch. This shall include all labor, materials, overhead, profit, etc. for the installation of the Vegetated Pad Ditch.
13. Pipe Slope Drains shall be installed at all locations shown on the plans. Pipe Slope Drains shall be paid for by the unit bid price for each. This shall include all labor, materials, overhead, profit, etc. for the installation of the Pipe Slope Drains.
14. Rip Rap Energy Dissipators shall be installed at all locations shown on the plans. Rip Rap Energy Dissipators shall be paid for by the unit bid price for each. This shall include all labor, materials, overhead, profit, etc. for the installation of the Rip Rap Energy Dissipators.
15. Rock Lined Sumps shall be installed at all locations shown on the plans. Rock Lined Sumps shall be paid for by the unit bid price for each. This shall include all labor, materials, overhead, profit, etc. for the installation of the Rock Lined Sumps.
16. Pad Edge Berms shall be installed along the edges of the pads as shown on the plans. The cost for this work shall be incidental to the unit bid price for Earth Moving.

J. Stormwater Basin

1. Description: Once Pad 3 is to grade and the stormwater system is installed, Storm Basin 1 shall be installed. The basin shall be installed as shown in the plans.
2. Stormwater Basin shall be paid for by the bid unit price for each. This shall include all labor, materials, overhead, profit, etc. for the installation of Stormwater Basin. Inlet protection, riser, barrel, trash rack, and concrete base shall be incidental to this bid item.

K. Seeding and Mulching:

1. Description: Seeding and Mulching according to Section 329200 "Turf and Grasses."
2. Payment will be made on this item as reclamation on areas disturbed by the construction process and paid for by the acre unit bid price for Seed and Mulch activities.
3. Temporary seeding shall be provided during the construction in accordance with the WV BMP manual. No additional payment will be made for temporary seeding necessary to remain in compliance with the WVDEP BMP manual.
4. Permanent seeding and mulching will be provided for all disturbed areas and serve as the basis for payment of the Seed and Mulch unit bid price.

L. Asphalt Paving:

1. Description: Asphalt Paving according to Section 321216 "Asphalt Paving."
2. Traffic control shall be paid for under the Demolition lump sum unit bid price.
3. See Earth Moving for subgrade method of payment.
4. Fabric for separation shall be paid for by the unit bid price for each square yard placed.

5. Subgrade shall be paid for by the unit bid price for each cubic yard placed.
6. Milling of Existing Pavement shall be paid for by the unit bid price for each square foot milled.
7. Bituminous Tack Coat Material shall be paid for by the unit bid price for each gallon used.
8. Aggregate Base Course Class 1 and Class 10 shall be paid for by the unit price bid price for each cubic yard placed.
9. 3" Crusher Run stone shall be paid for by the unit price bid price for each cubic yard placed.
10. Hot-mix asphalt base course Type I and Type II shall be paid for by the unit bid price for each ton placed.
11. Hot-mix Skid Resistant asphalt wearing course Type I shall be paid for by the unit bid price for each ton placed.
12. No payment shall be made for unauthorized placement of asphalt.
13. No payment shall be made for temporary paving required during construction.
14. The labor, materials, and equipment for the saw cutting and removal of any existing material shall be incidental to the unit bid prices for subgrade, aggregate base course, and hot-mix asphalt base courses.

M. Concrete Paving:

1. Description: Concrete Paving according to Section 321313 "Concrete Paving."
2. Construction for concrete Curb & Gutter shall be paid for by the linear foot unit bid price. This cost shall include all materials, labor, and construction incidental to the construction of concrete curb and gutter, including any required grading and backfill of the curbs or any curb cuts at intersections with sidewalks.
3. Curb & Gutter installed along the White Oaks Boulevard shall be modified Type I, with a 6" curb height and 18" gutter pan width.

N. Drainage

1. Concrete Manhole shall be installed as shown on the plans. Concrete manholes shall be installed in both the storm network and the sewer network relocation. Concrete Manholes shall be 4' diameter paid for by the unit bid price per each manhole installed. This shall include all labor, materials, overhead, profit, etc. for the installation of the Concrete Manhole.
2. Concrete Inlets shall be installed as shown on the plans. Concrete inlets shall be WVDOH Type "G" inlets and shall be paid for by the unit bid price per each inlet installed. This shall include all labor, materials, overhead, profit, etc. for the installation of the Concrete Inlets.
3. Underdrains shall be installed in locations encountered during construction that are producing groundwater and that could be detrimental to the earth work operations. These areas shall be assessed in the field and drained appropriately. An assumed quantity is included in this bid to get a unit price for this work.
4. Stormwater Drainage Pipe shall be installed as shown on the plans. Stormwater Drainage Pipe shall be paid for by the linear foot unit bid price related to each diameter of pipe. This shall include all labor, trenching, backfill, delivery, materials, overhead, profit, etc. for the installation of the Stormwater Drainage Pipe. The inlet sumps shall be incidental to the unit bid price for the 18" HDPE Storm Pipes at entrances.

5. Concrete Stormwater Pipe Anchors shall be installed in accordance with the plans. Concrete Stormwater Pipe Anchors shall be paid for by the unit bid price for each. This shall include all labor, excavation, backfill, delivery, materials, overhead, profit, etc. for the installation of the Concrete Stormwater Pipe Anchors.

O. Light Pole Relocation

1. The existing light pole at the proposed entrance to Pad 3 shall be relocated to the location shown on the plans. The Contractor shall remove the pole and base, remove the wire from this pole to junction box before and after this pole, splice the conduit at the existing pole location, install a new pole base, reinstall the existing pole and head, rewire the system between the junction boxes. The price for wiring, base, and installation shall be included in this unit bid price. Light Pole Relocation shall be paid for by the unit bid price for each installed.

P. 8" SDR 35 Gravity Sewer Pipe

1. 8" SDR 35 Gravity Sewer Pipe shall be installed in the locations and elevations shown in the plans. The price for 8" SDR 35 Gravity Sewer Pipe shall include excavation, bedding, and backfilling, marking tape, and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, testing, and incidentals necessary to complete the work.
2. All fittings shall be incidental to the linear foot unit bid price for 8" SDR 35 Gravity Sewer Pipe.
3. All testing of the gravity sewer shall be incidental to the linear foot unit bid price for 8" SDR 35 Gravity Sewer Pipe.
4. The work done under this item shall be measured and paid for by the linear foot of pipe as specified on plans or as directed by the Engineer, and installed complete in place. The length shall be determined from measurement to the nearest foot. The measurement under this item shall be the length of pipe and fittings as installed in place and accepted and shall be measured along the horizontal centerline of each pipe installed, measured centerline of tie-in to centerline of tie-in.

Q. Sanitary Sewer Tie-In, Complete

1. Payment for Sanitary Sewer Tie-In shall be paid for by the unit bid price for each. This shall include all labor, materials, overhead, profit, etc. for the complete installation of each Sanitary Sewer Tie-In.

R. E1 Grinder Lift Station

1. The E1 Grinder Lift Station shall be installed at the location shown in the plans. The price for the E1 Grinder Lift Station shall include the pump, well, manhole, controls, wiring, and other equipment necessary to install a complete functioning station as shown in the plans. E1 Grinder Lift Station shall be paid for by the bid unit price for each. This shall include all labor, materials, overhead, profit, etc. for the installation of the E1 Grinder Lift Station.

S. 1 – ½" PVC SDR-9 Force Main Pipe

1. The force main sewers installed under this item shall be measured and paid for by the linear feet of pipe as specified on plans or as directed by the Engineer and installed complete in place. The measurement under this item shall be the length of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured centerline of tie-in to centerline of tie in.
2. The force main pipe will be paid for at the unit bid prices bid for the 1-1/2" PVC SDR-9 Force Main Pipe, which prices and payments shall be full compensation for excavation, bedding, and backfilling and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, testing, and incidentals necessary to complete the work.

T. Electric Duct Bank

1. Electric Duct Bank shall be installed at the locations and as shown in the plans. The price for Electric Duct Bank shall include excavation, conduits, bedding, backfilling, marking tape, turn-ups, nylon pull rope, reclamation, and incidentals necessary to complete the work.
2. The payment for Electric Duct Bank shall be by the linear foot unit bid price. This shall include all labor, materials, overhead, profit, etc. for the complete installation of the Electric Duct Bank.

U. 3" Electric Conduit

1. 3" Electric Conduit shall be installed at the locations and as shown in the plans. The price for 3" Electric Conduit shall include excavation, conduit, bedding, backfilling, marking tape, turn-ups, nylon pull rope, reclamation, and incidentals necessary to complete the work.
2. The payment for 3" Electric Conduit shall be by the linear foot unit bid price. This shall include all labor, materials, overhead, profit, etc. for the complete installation of the 3" Electric Conduit.

V. Switch Gear Manhole Box Installation

1. The Switch Gear Manhole Box installation shall be installed at the location and as show in the plans. This shall include the installation of the Switch Gear Manhole Box as provided by Mon Power. The electric conduit shall be installed into the switch gear box as directed by Mon Power.
2. The payment for Electric Duct Bank shall be by the unit bid price for each. This shall include all labor, materials, overhead, profit, etc. for the complete installation of the Switch Gear Manhole Box.

W. Water Line Hot Tap Tie-In, Complete

1. Water Line Hot Tap Tie-In shall be installed at the locations and as shown in the plans. The price for Water Line Tie-In shall include the purchase and installation of all required

material in order to perform the tie-in as shown. This Unit Bid Price shall include a gate valve sized the same as the new waterline, the required ductile iron mechanical joint fittings, and the necessary ductile iron solid sleeve(s) or dresser couplings.

2. The payment for Water Line Hot Tap Tie-In shall be by the unit bid price for each. This shall include all labor, materials, overhead, profit, etc. for the complete installation of the Water Line Hot Tap Tie-In.

X. 8" PVC C-900 DR-14 Waterline

1. 8" PVC C-900 DR-14 Waterline installed under this item shall be measured and paid for by the linear feet as specified on plans or as directed by the Engineer and installed complete in place. The measurement under this item shall be the length of pipe and fittings as installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured centerline of tie-in to centerline of tie in.
2. 8" PVC C-900 DR-14 Waterline will be paid for at the unit bid prices bid for the 8" PVC C-900 DR-14 Waterline, which prices and payments shall be full compensation for excavation, bedding, marking tape, and backfilling and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, testing, and incidentals necessary to complete the work.

Y. 8" x 8" x 8" Water Line Tee with Thrust Block

1. 8" x 8" x 8" Water Line Tee shall be installed at the locations and as shown in the plans. The price for 8" x 8" x 8" Water Line Tee shall include the purchase and installation of all required material as shown. This Unit Bid Price shall include a tee and the concrete thrust block.
2. 8" x 8" x 8" Water Line Tee will be paid for at the unit bid prices bid for each, which prices and payments shall be full compensation for excavation, bedding, marking tape, and backfilling and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, testing, and incidentals necessary to complete the work.

Z. 8" Water Gate Valve and Cap

1. 8" Water Gate Valve and Cap shall include the purchase and installation of the valve including the riser box and gas valve marker.
2. The payment for the 8" Water Gate Valve and Cap shall include all labor, tools, equipment, supplies, testing, and incidentals necessary to complete the work.

AA. Fire Hydrant Assembly, Complete

1. Fire Hydrant Assembly shall be installed at the locations and as shown in the plans. The price for Fire Hydrant Assembly shall include the purchase and installation of the fire hydrant, 6" gate valve, 6" hydrant tee, all thread rods, valve riser box, and all appurtenances as shown on the details of the plans.

2. Fire Hydrant Assembly will be paid for at the unit bid prices bid for each, which prices and payments shall be full compensation for excavation, bedding, and backfilling and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, testing, and incidentals necessary to complete the work.

BB. 6" Steel Casing

1. 6" Steel Casing shall be installed at the locations and as shown in the plans. The 6" Steel Casing shall be used to case the 3" gas line under roadways. The price for 6" Steel Casing shall include the purchase and installation of the steel casing.
2. 6" Steel Casing shall be paid for at the unit bid price per linear foot, which prices and payments shall be full compensation for excavation, bedding, and backfilling and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, and incidentals necessary to complete the work.

CC. 16" Steel Casing

1. 16" Steel Casing shall be installed at the locations and as shown in the plans. The 6" Steel Casing shall be used to case the 8" waterline under roadways. The price for 16" Steel Casing shall include the purchase and installation of the steel casing.
2. 16" Steel Casing shall be paid for at the unit bid price per linear foot, which prices and payments shall be full compensation for excavation, bedding, and backfilling and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, and incidentals necessary to complete the work.

END OF SECTION 012200



THE THRASHER GROUP, INC.
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PHONE (304) 624-4108 • FAX (304) 624-7831



WHITE OAKS

ISSUED FOR BID PLANS FOR WHITE OAKS BUSINESS PARK PHASE II A BRIDGEPORT, HARRISON COUNTY, WV OCTOBER 2022

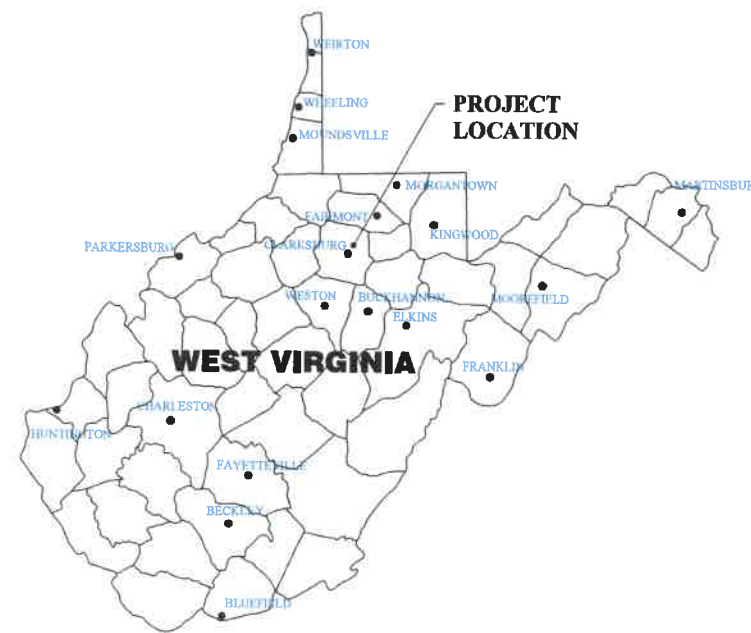
SHEET INDEX

SHEET	DESCRIPTION
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2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
4	GENERAL NOTES
5	EXISTING CONDITIONS
6	ESC GRADING PLAN STAGE 1
7	ESC GRADING PLAN STAGE 2
8	ESC GRADING PLAN STAGE 3
9	ESC GRADING PLAN STAGE 4
10A-10B	SEDIMENT TRAP DETAILS
11	STORMWATER BASIN DETAILS
12	EARTHWORK PLAN
13	PAD BASELINES
14-19	BASELINE A PAD SECTIONS
20-29	BASELINE B PAD SECTIONS
30-33	WILDLIFE LANE PLAN & PROFILE
34-41	WILDLIFE LANE CROSS SECTION
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44-46	INTERSECTION DETAILS
47	UTILITY PLAN
48	GRAVITY SEWER PLAN
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50	FORCE MAIN PLAN AND PROFILE
51	STORMWATER PLAN
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56-68	DETAILS

2018 HARRISON COUNTY WVDH COUNTY MAP



VICINITY MAP SCALE



ONE CALL UTILITY SYSTEM CONTACT INFO



CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM OF THE INTENDED EXCAVATION OR DEMOLITION NOT LESS THAN FORTY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL FEDERAL OR STATE HOLIDAYS, NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE BEGINNING OF SUCH WORK.

- APPROVED FOR PERMITS DATE: _____ BY: _____
- APPROVED FOR BIDS DATE: _____ BY: _____
- APPROVED FOR CONSTRUCTION DATE: _____ BY: _____

CONTACTS

ENGINEER
THE THRASHER GROUP
ATTN: RICHARD G. HOVATTER JR., PE
304-205-8809

ENGINEER
THE THRASHER GROUP
ATTN: AUSTIN THRASHER, EI
304-203-8579

REVISION NUMBER	REVISED SHEETS	BY	DATE	DESCRIPTION
1	1-4,6-12,30,43,47,51,58,60,62,63,64,66,67	JCP	10/19/22	Sediment trap 1, Wildlife Lane pavement, stage 3 fill area, storm, grinder service.Details
2	1,3,5-9,10A,10B,11,13,15-18,29-33,42,45,47,50,51,56,61	JCP	10/26/22	revised stage 1&2 plans, added, sediment trap and CFS trap, SF revision, gas line by others, clay liner added to basin, sumps added, Revisions to quantities.

CAD FILE: R:\030\030-10341.00-White Oaks Phase II 2021-High Tech Corridor Development, LLC-Drawing\10341-COVER-FB.dwg PLOT DATE/TIME: 10/26/2022 2:16 PM USER: john ellman

LAYOUT TAB: 3 SUMMARY OF QUANTITIES
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 PLOT DATE/TIME: 10/26/2022 1:17 PM

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
1	SITE CLEARING	LS	1
2	MOBILIZATION/DEMOLITION	LS	1
3	DEMOLITION AND TRAFFIC CONTROL	LS	1
4	EARTH MOVING	CY	352,000
5	ROCK CORE DRAIN (5'X5') - ON SITE MATERIAL	LF	1,000
6	ROCK CORE DRAIN (5'X5') - IMPORT MATERIAL	LF	1,000
7	TOE-KEY BENCH	LF	780
8	POND OVER EXCAVATION	CY	4,500
9	POND BACKFILL ROCK - ON SITE MATERIAL	CY	4,500
10	POND BACKFILL ROCK - IMPORT MATERIAL	CY	4,500
11	STABILIZED CONSTRUCTION ENTRANCE	EA	3
12	PRIORITY 1 SILT FENCE	LF	3,475
13	ORANGE SAFETY FENCE	EA	100
14	COMPOST FILTER SOCK INLET PROTECTION	LF	500
15	SEDIMENT TRAP	EA	2
16	COMPOST FILTER SOCK SEDIMENT TRAP	EA	1
17	EXISTING POND DEWATERING	LS	1
18	ROCK LINED SUMP (3'X3'X3')	EA	10
19	VEGETATED PAD DITCH	LF	3,860
20	PIPE SLOPE DRAIN	EA	5
21	RIP RAP ENERGY DISSIPATOR	EA	7
22	STORMWATER BASIN	EA	1
23	SEED AND MULCH	AC	31
24	FABRIC FOR SEPARATION	SY	3,540
25	SUBGRADE	CY	380
26	MILLING OF EXISTING PAVEMENT	SF	6,843
27	BITUMINOUS TACK COAT MATERIAL	GAL	100
28	AGGREGATE BASE COURSE, CLASS 1	CY	130
29	AGGREGATE BASE COURSE, CLASS 10 (SHOULDER)	CY	40
30	3" CRUSHER RUN	CY	620
31	MARSHALL HOT-MIX ASPHALT SKID RESISTANT, TYPE I	TN	380
32	MARSHALL HOT-MIX ASPHALT BASE COURSE, TYPE I	TN	620
33	MARSHALL HOT-MIX ASPHALT BASE COURSE, TYPE II	TN	190
34	CONCRETE CURB AND GUTTER	LF	100
35	CONCRETE MANHOLE (4' DIAMETER)	EA	12
36	CONCRETE INLET (WVDOH TYPE G)	EA	10
37	UNDERDRAINS	LF	100
38	18" HDPE CULVERT	LF	70
39	24" HDPE STORMWATER PIPE	LF	2,110
40	CONCRETE STORMWATER PIPE ANCHORS	EA	18
41	LIGHT POLE RELOCATION	EA	1
44	8" SDR 35 GRAVITY SEWER PIPE	LF	650
45	SANITARY SEWER TIE-IN, COMPLETE	EA	2
46	CONCRETE SEWER PIPE ANCHORS	EA	18
47	E1 GRINDER LIFT STATION	EA	1
48	3" ELECTRICAL CONDUIT	LF	145
49	1 1/2" PVC SDR-9 FORCE MAIN PIPE	LF	700
50	ELECTRIC DUCT BANK	LF	260
51	SWITCH GEAR MANHOLE BOX INSTALLATION	EA	3
52	WATERLINE TIE-IN/HOT TAP, COMPLETE	EA	2
53	8" PVC C-900 DR-14 WATERLINE	LF	300
54	8" X 8" X 8" WATERLINE TEE W/ THRUST BLOCK	EA	2
55	8" WATER GATE VALVE AND CAP	EA	2
56	FIRE HYDRANT ASSEMBLY, COMPLETE	EA	2
57	6" STEEL CASING	LF	90
58	16" STEEL CASING	LF	30



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NO.	BY	DATE	DESCRIPTION
2	JCP	10/26/22	Revised Quantities-3" gas removed, CFS trap & Sumps added
1	JCP	10/19/22	Revised quantities



SCALE: AS SHOWN	
DRAWN:	DATE:
CHECKED:	DATE:
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

THRASHER
 THE THRASHER GROUP INC.
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 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
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PHASE No.	
CONTRACT No.	
PROJECT No.	T30-11114

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 SUMMARY OF QUANTITIES

SHEET No.	3
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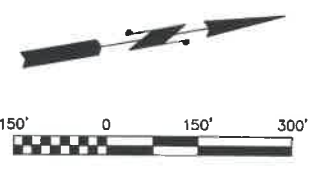
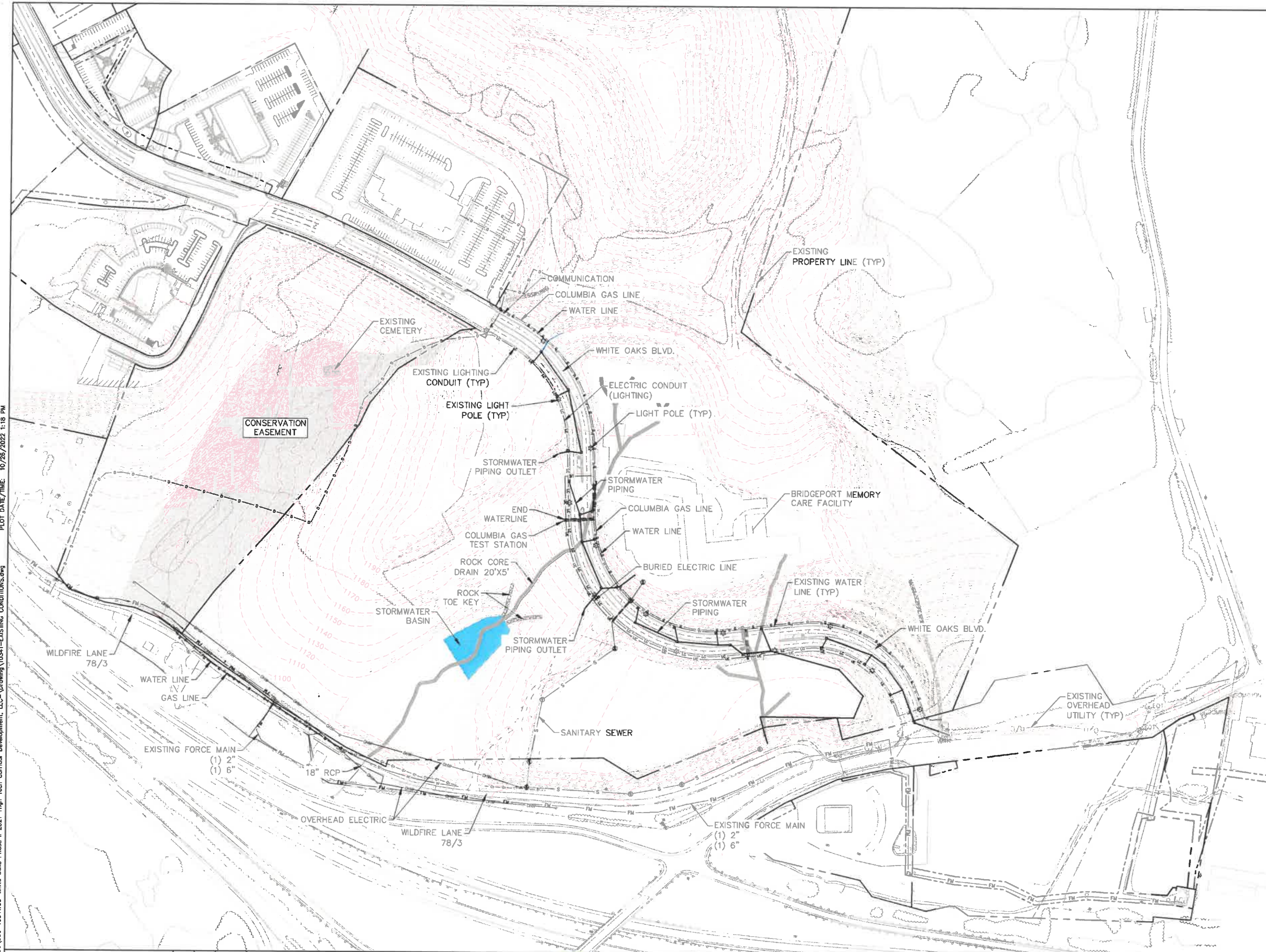
PLAN LEGEND

- PROPERTY LINE
- EXISTING ROAD RIGHT-OF-WAY
- EXISTING BUILDING
- EXISTING OVERHEAD UTILITY LINES
- EXISTING SIDEWALK
- EXISTING PAVED ROAD EDGE
- EXISTING PAVEMENT
- EXISTING FENCE
- EXISTING ROAD CENTERLINE
- EXISTING GAS LINE
- EXISTING GUARDRAIL
- EXISTING DITCH
- EXISTING STREAM
- EXISTING TREE LINE
- EXISTING CULVERT PIPES
- EXISTING UTILITY POLE
- EXISTING GAS METER
- EXISTING WATER METER
- EXISTING FIRE HYDRANT

GENERAL NOTES

1. BASE MAPPING FOR THIS PROJECT WAS OBTAINED FROM BLUE MOUNTAIN AERIAL MAPPING. THE MAPPING IS BASED ON AERIAL PHOTOGRAPHY.
2. EXISTING UTILITIES ARE BASED ON A COMBINATION FROM AERIAL IMAGERY & SURVEY PERFORMED BY THE THRASHER GROUP.

LAYOUT TAB: 5 EXISTING CONDITIONS
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NO.	BY	DATE	DESCRIPTION
2	WSH	02/08/19	REMOVED MAGENTA HATCH REFERRING TO PROPOSED CORE DRAIN
1	SH	1/29/19	BORDER AND ADDITION OF UTILITIES & GRAVEL ROAD



SCALE: AS SHOWN	DATE:
DRAWN:	DATE:
CHECKED:	DATE:
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

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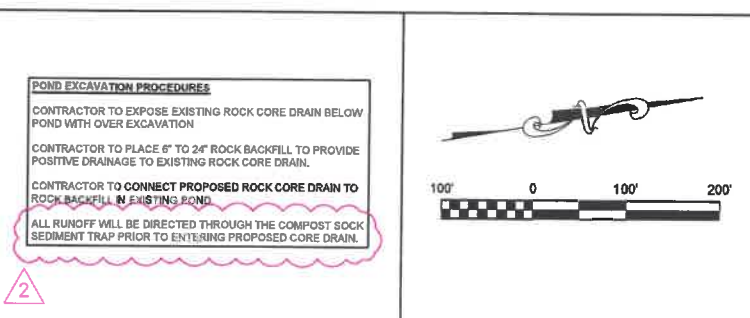
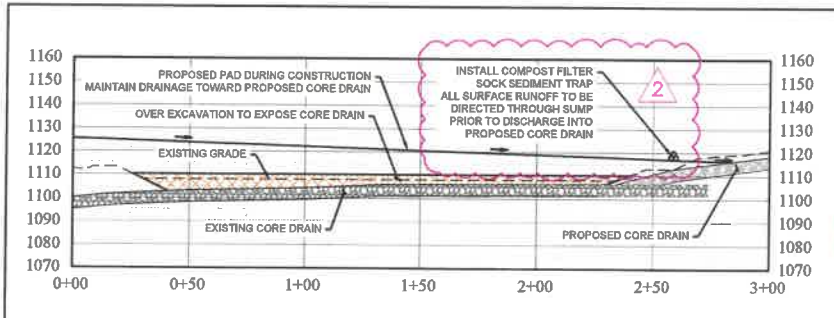
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PHASE No.	
CONTRACT No.	
PROJECT No.	T30-11114

**ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 EXISTING CONDITIONS**

SHEET No.	5
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LAYOUT TAB: 6 ESC GRADING PLAN - STAGE 1
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PLAN LEGEND

	PROPERTY LINE
	PROPOSED CONTOURS MAJOR / MINOR
	EXISTING CONTOURS MAJOR / MINOR
	EXISTING CURB INLET & PIPE
	EXISTING DITCH
	EXISTING CORE DRAIN
	EXISTING GASLINE
	PROPOSED CUT
	PROPOSED FILL
	PROPOSED DITCH
	PROPOSED SILT FENCE (PRIORITY 1)
	PROPOSED STORM MANHOLE & PIPE
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED SUMP
	PROPOSED ENERGY DISSIPATER
	PROPOSED ROCK CORE DRAIN
	PROPOSED TOE KEY BENCH
	CONSERVATION EASEMENT

GPP LEGEND

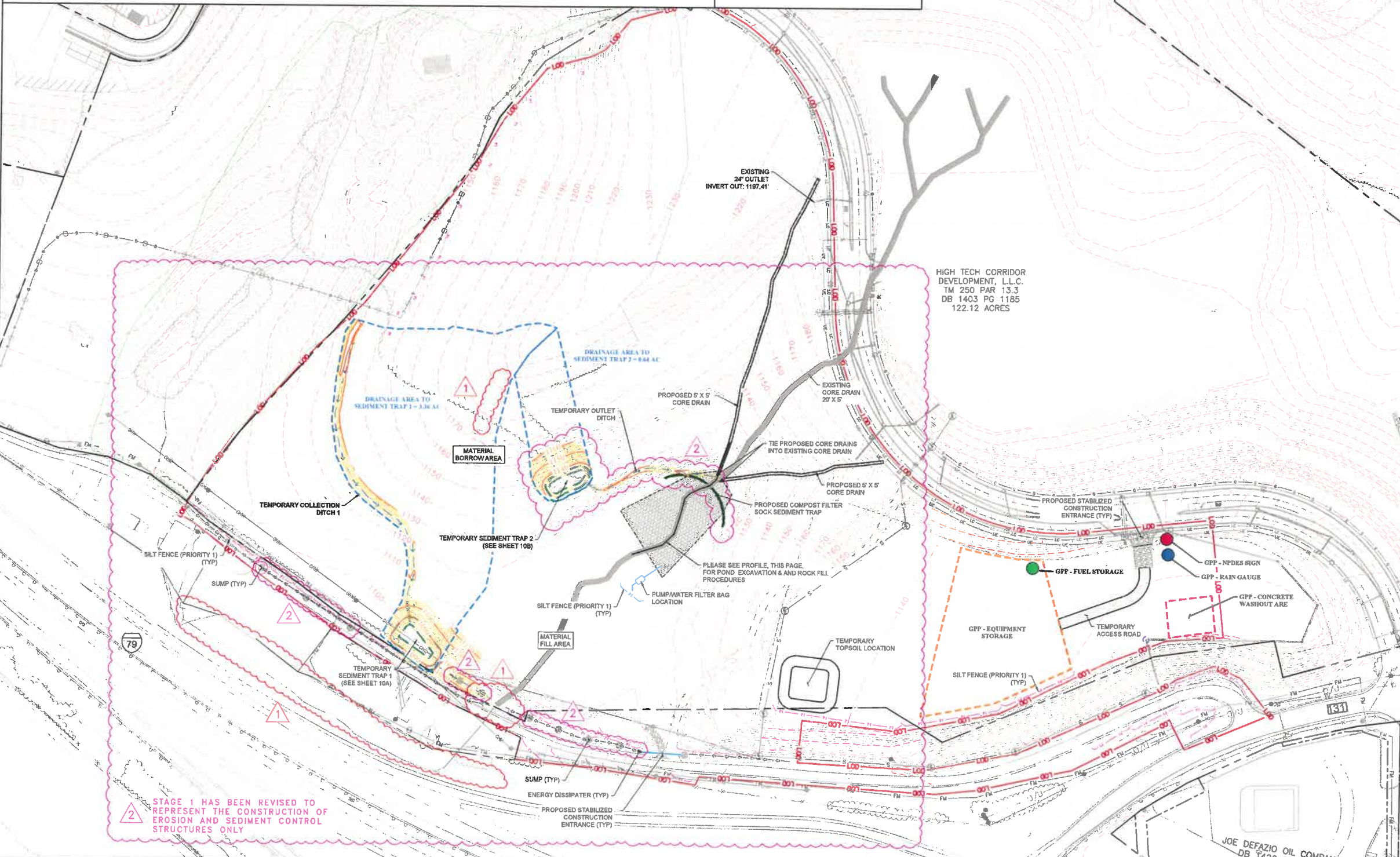
	NPDES SIGN
	RAIN GAUGE
	FUEL STORAGE AREA
	EQUIPMENT STORAGE AREA
	CONCRETE WASHOUT AREA

LOCATIONS SHOWN FOR FACILITY LOCATIONS ARE THE ENGINEER'S BEST ESTIMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF FACILITIES AND ENSURING RUNOFF WILL BE DIRECTED TO A BMP DURING CONSTRUCTION. IF LOCATIONS VARY, THIS PLAN WILL BE REDLINED DURING CONSTRUCTION.

APPROXIMATE STAGE 1 EARTHWORK QTY:

CUT	= 7,390 CU YDS
FILL	= 545 CU YDS
NET	= 6,845 CU YDS (CUT)

- ### STAGE 1 SEQUENCE OF CONSTRUCTION
- LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY WEST VIRGINIA 811 A MINIMUM OF (2) DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.
 - INSTALL BOTH STABILIZED CONSTRUCTION ENTRANCES LOCATED ON WHITE OAKS BLVD AND WILDLIFE LANE AS SHOWN.
 - INSTALL PRIORITY 1 SILT FENCE TO MANUFACTURER'S SPECIFICATIONS ALONG EDGE OF EXISTING PAD CONTAINING EQUIPMENT STORAGE AREA, FUEL STORAGE AREA, CONCRETE WASHOUT, ETC.
 - INSTALL NPDES SIGN AND RAIN GAUGE IN LOCATION AS SHOWN.
 - INSTALL TEMPORARY ACCESS ROAD AS SHOWN. THE TEMPORARY ACCESS ROAD WILL CONSIST OF CLEARING AND GRUBBING, INSTALLATION OF GEOTEXTILE AND INSTALLATION OF 3" THICKNESS OF 1 1/2" CRUSHER RUN.
 - INSTALL SUMPS ALONG WILDLIFE LANE.
 - INSTALL PRIORITY 1 SILT FENCE TO MANUFACTURER'S SPECIFICATIONS ALONG WILDLIFE LANE AND ALONG THE EXISTING CONSERVATION AREA.
 - INSTALL TEMPORARY SEDIMENT TRAP 1
 - INSTALL TEMPORARY COLLECTION DITCH 1
 - DEWATER THE EXISTING POND THROUGH A WATER FILTER BAG. PLEASE SEE DETAIL SHEET FOR THE INSTALLATION OF THE WATER FILTER BAG. INSTALL SILT FENCE DOWNSLOPE OF DISCHARGE OF WATER FILTER BAG PRIOR TO PUMPING WATER FROM THIS STRUCTURE.
 - THE CONTRACTOR IS TO REMOVE THE SATURATED SOILS FROM THE BOTTOM OF THE EXISTING POND. THIS MATERIAL CAN BE PLACED IN AN AREA THAT IS CONTROLLED BY DOWNSLOPE SILT FENCE AND MAY BE UTILIZED FOR BACKFILL FOLLOWING THE GUIDELINES OF THE ENGINEERING FILL PROCEDURES.
 - THE CONTRACTOR IS TO EXPOSE EXISTING ROCK CORE DRAIN BELOW POND DURING OVER EXCAVATION PROCEDURES.
 - THE CONTRACTOR IS TO PLACE 6" TO 24" ROCK BACKFILL TO PROVIDE POSITIVE DRAINAGE TO EXISTING ROCK CORE DRAIN.
 - INSTALL COMPOST FILTER SOCK SEDIMENT TRAP
 - INSTALL TEMPORARY SEDIMENT TRAP 2
 - INSTALL TEMPORARY OUTLET DITCH (ASSOCIATED WITH TRAP 2)
 - PROCEED TO STAGE 2



STAGE 1 HAS BEEN REVISED TO REPRESENT THE CONSTRUCTION OF EROSION AND SEDIMENT CONTROL STRUCTURES ONLY

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NO.	BY	DATE	DESCRIPTION
2	DJW	11/24/22	Added Temporary Collection Ditch 2 and Temporary Sediment Trap 2
2	DJW	10/24/22	Revised Sump To Connect Filter Sock Sediment Trap
2	DJW	10/24/22	Revised Silt Fence To Priority 1 / Sumps Added Along Wildlife Lane
2	DJW	10/24/22	Revised Phase 1 To Represent Construction Of Erosion and Sediment Control Only
1	JCP	10/15/22	Removed silt fence and slope drain, removed sump



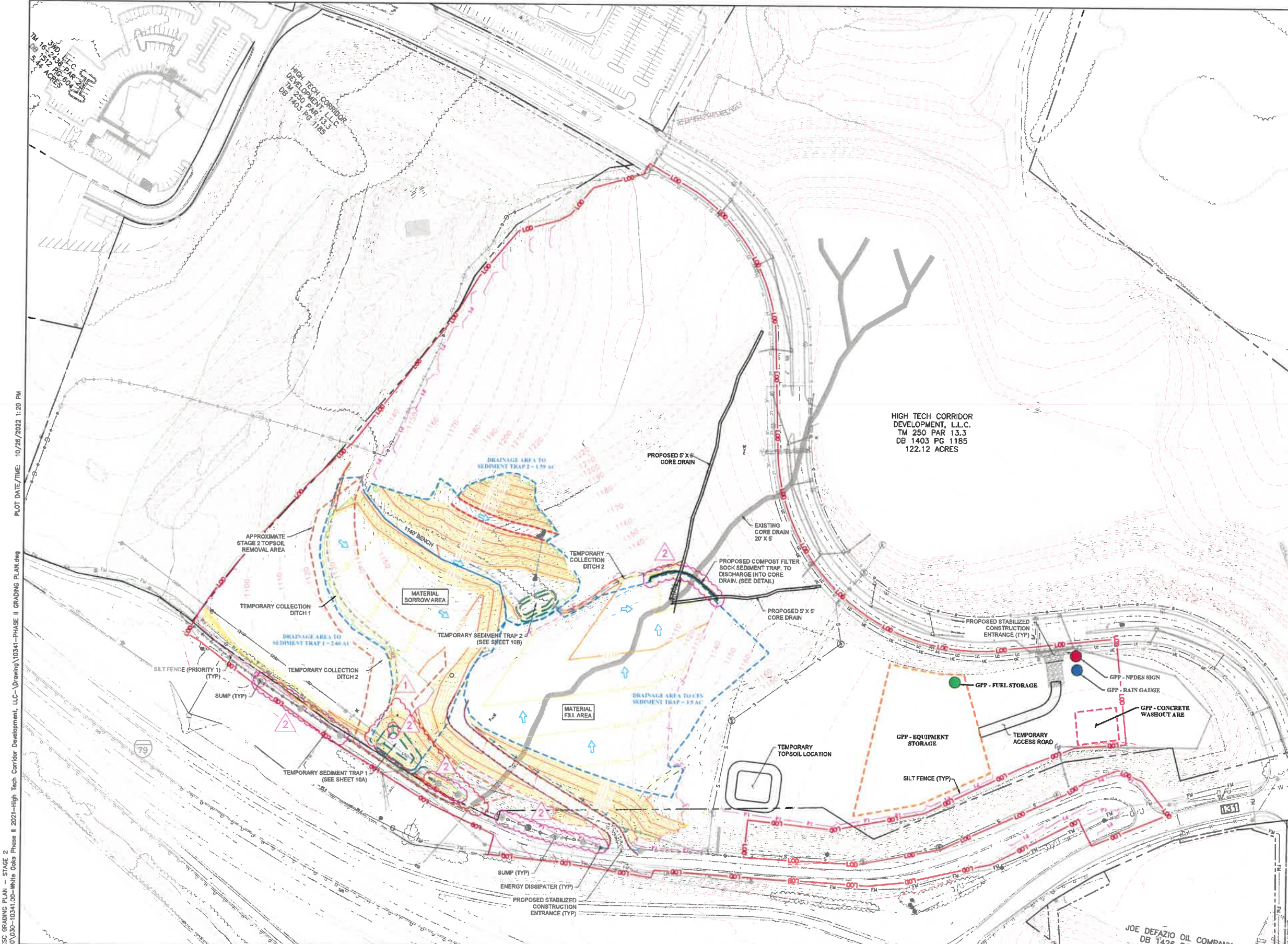
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PHASE No.	
CONTRACT No.	
PROJECT No.	
T30-11114	

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 ESC GRADING PLAN - STAGE 1

SHEET No.	6
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PLAN LEGEND

- PROPERTY LINE
- PROPOSED CONTOURS MAJOR / MINOR
- EXISTING CONTOURS MAJOR / MINOR
- EXISTING CURB INLET & PIPE
- EXISTING DITCH
- EXISTING CORE DRAIN
- EXISTING GASLINE
- PROPOSED CUT
- PROPOSED FILL
- PROPOSED DITCH
- PROPOSED SILT FENCE (PRIORITY 1)
- PROPOSED STORM MANHOLE & PIPE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED SUMP
- PROPOSED ENERGY DISSIPATER
- PROPOSED ROCK CORE DRAIN
- PROPOSED TOE KEY BENCH
- CONSERVATION EASEMENT

GPP LEGEND

- NPDES SIGN
- RAIN GAUGE
- FUEL STORAGE AREA
- EQUIPMENT STORAGE AREA
- CONCRETE WASHOUT AREA

LOCATIONS SHOWN FOR FACILITY LOCATIONS ARE THE ENGINEERS BEST ESTIMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF FACILITIES AND ENSURING RUNOFF WILL BE DIRECTED TO A BMP DURING CONSTRUCTION. IF LOCATIONS VARY, THIS PLAN WILL BE REDLINED DURING CONSTRUCTION.

APPROXIMATE TOTAL EARTHWORK QTY:

CUT = 97,910 CU YDS
 FILL = 102,400 CU YDS
 NET = 4,490 CU YDS (FILL)

APPROXIMATE STAGE 2 EARTHWORK QTY:

CUT = 90,520 CU YDS
 FILL = 101,855 CU YDS
 NET = 11,335 CU YDS (FILL)

STAGE 2 SEQUENCE OF CONSTRUCTION

- DURING STAGE 1, ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOULD BE INSTALLED, WITH THE EXCEPTION OF TEMPORARY COLLECTION DITCH 2.
- CLEAR AND GRUBBING PROCEDURES SHALL BEGIN.
 - EXCAVATION PROCEDURES MAY BEGIN.
- DURING THE INITIAL EXCAVATION, MATERIAL WILL BE REMOVED FROM THE MATERIAL BORROW AREA AS SHOWN. ALL RUNOFF WITHIN THIS AREA WILL BE DIRECTED TO TEMPORARY SEDIMENT TRAP 1. THE FILL PLACEMENT WILL BE PLACED INSURING POSITIVE DRAINAGE TO THE COMPOST FILTER SOCK SEDIMENT TRAP THAT WILL DISCHARGE INTO THE PROPOSED CORE DRAIN. AS THE FILL MATERIAL IS PLACED, THE COMPOST FILTER SOCK SEDIMENT WILL NEED TO BE RELOCATED AS THE LIFTS INCREASE IN HEIGHT.
- ONCE THE EXCAVATION REACHES THE CONSTRUCTION/EXCAVATION OF THE BENCH SITUATED AT AN APPROXIMATE ELEVATION OF 1140 ABOVE PROPOSED PAD 1, THEN ALL RUNOFF WILL BE DIRECTED ALONG THE BENCH AND INTO TEMPORARY SEDIMENT TRAP 2 VIA TEMPORARY COLLECTION DITCH 2.
- INSTALL TEMPORARY COLLECTION DITCH 2.
 - PROCEED TO STAGE 3

LAYOUT TAB: 7 ESC GRADING PLAN - STAGE 2
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NO.	BY	DATE	DESCRIPTION
2	DJW	10/24/22	Replaced Sump With Compost Filter Sock Sediment Trap
2	DJW	10/24/22	Revised Silt Fence To Priority 1, Added Energy Dissipaters
2	DJW	10/19/22	Added Sumps Within Wildlife Lane Ditchline
1	JCP	10/19/22	Adjusted Sed Trap 1, Revised Earthwork



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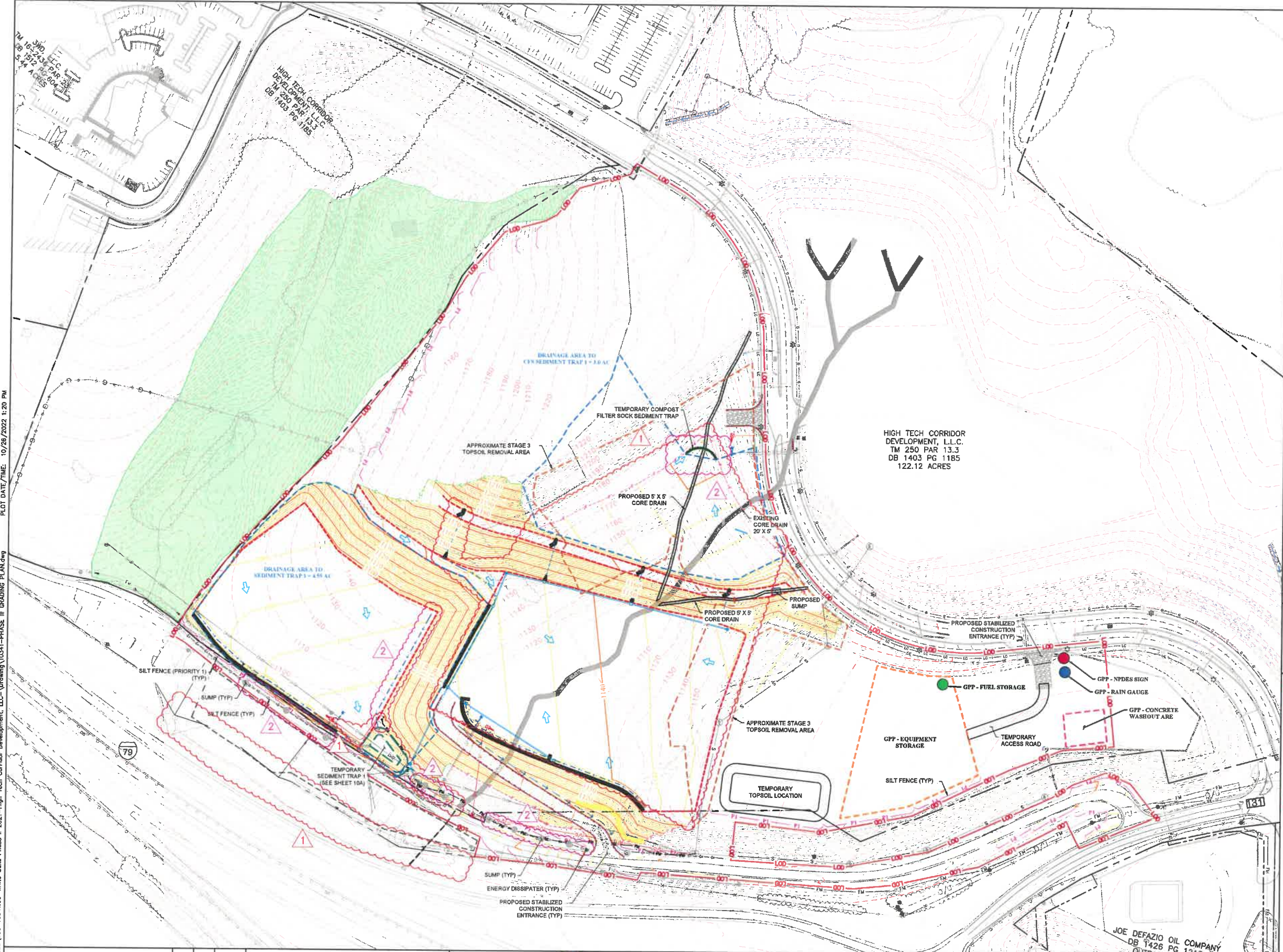
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PHASE No.	
CONTRACT No.	
PROJECT No.	T30-11114

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 ESC GRADING PLAN - STAGE 2

SHEET No.	7
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LAYOUT TAB: 8 ESC GRADING PLAN - STAGE 3
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 PLOT DATE/TIME: 10/28/2022 1:20 PM



PLAN LEGEND

- PROPERTY LINE
- PROPOSED CONTOURS MAJOR / MINOR
- EXISTING CONTOURS MAJOR / MINOR
- EXISTING CURB INLET & PIPE
- EXISTING DITCH
- EXISTING CORE DRAIN
- EXISTING GASLINE
- PROPOSED CUT
- PROPOSED FILL
- PROPOSED DITCH
- PROPOSED SILT FENCE (PRIORITY 1)
- PROPOSED STORM MANHOLE & PIPE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED SUMP
- PROPOSED ENERGY DISSIPATER
- PROPOSED ROCK CORE DRAIN
- PROPOSED TOE KEY BENCH
- CONSERVATION EASEMENT

GPP LEGEND

- NPDES SIGN
- RAIN GAUGE
- FUEL STORAGE AREA
- EQUIPMENT STORAGE AREA
- CONCRETE WASHOUT AREA

LOCATIONS SHOWN FOR FACILITY LOCATIONS ARE THE ENGINEERS BEST ESTIMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF FACILITIES AND ENSURING RUNOFF WILL BE DIRECTED TO A BMP DURING CONSTRUCTION. IF LOCATIONS VARY, THIS PLAN WILL BE REDLINED DURING CONSTRUCTION.

APPROXIMATE TOTAL EARTHWORK QTY:

CUT = 215,250 CU YDS
 FILL = 222,320 CU YDS
 NET = 7,070 CU YDS (FILL)

APPROXIMATE STAGE 3 EARTHWORK QTY:

CUT = 117,340 CU YDS
 FILL = 119,920 CU YDS
 NET = 2,580 CU YDS (FILL)

STAGE 3 SEQUENCE OF CONSTRUCTION

1. COMPLETE EXCAVATION/GRADING FOR PROPOSED PAD 1, ENSURING ALL RUNOFF WILL BE DIRECTED TO TEMPORARY SEDIMENT TRAP 1.
2. THE PROPOSED PAD 2 WILL BE COMPLETED UTILIZING MATERIAL REMOVED FROM PAD 1. WILL BE PLACED ON PAD 2.
3. INSTALL STORWATER STRUCTURES AS SHOWN ON PROPOSED PAD 2.
4. COMPLETE GRADING ON PAD THREE. ALL RUNOFF WILL BE DIRECTED TO THE COMPOST FILTER SOCK SEDIMENT TRAP AND WILL DISCHARGE INTO THE PROPOSED CORE DRAIN.
5. PROCEED TO STAGE 4



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NO.	BY	DATE	DESCRIPTION
2	DJW	10/24/22	Sump Replaced With Temporary Compost Filter Sock Trap
2	DJW	10/24/22	Added Dish Along Pad 1, Added Rip Rap Entrance Channel
2	DJW	10/24/22	Revised Silt Fence To Priority 1, Added Energy Dissipaters
2	DJW	10/24/22	Added Sumps Within VME/In Lane Ditchline
1	JCP	10/19/22	Revised Sed Trap, Fill area, added storm structures, removed SF, Earthwork revised



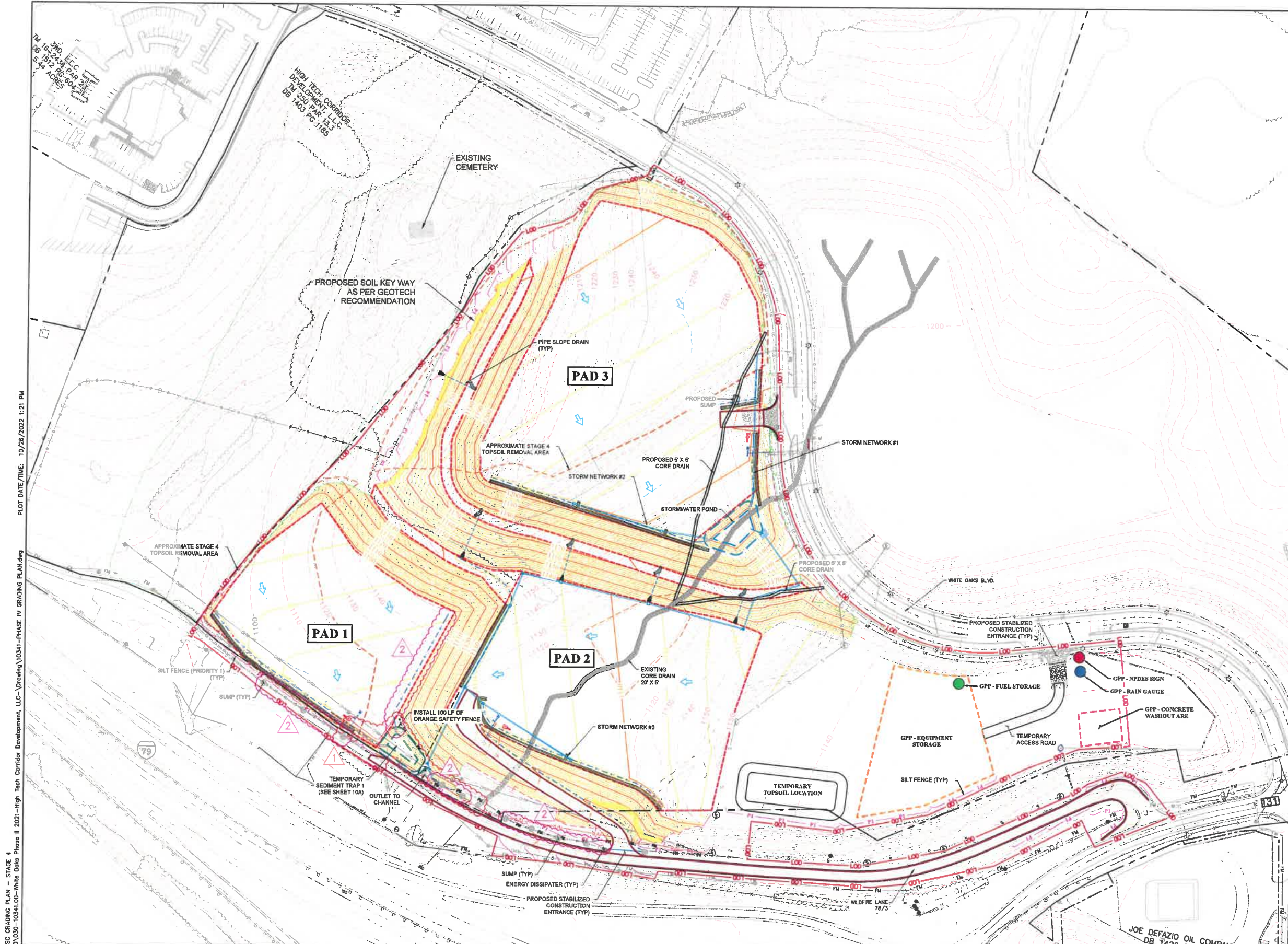
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CONTRACT No.	
PROJECT No.	T30-11114

ISSUED FOR BID PLANS FOR
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 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 ESC GRADING PLAN - STAGE 3

SHEET No.	8
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PLAN LEGEND

- PROPERTY LINE
- PROPOSED CONTOURS MAJOR / MINOR
- EXISTING CONTOURS MAJOR / MINOR
- EXISTING CURB INLET & PIPE
- EXISTING DITCH
- EXISTING CORE DRAIN
- EXISTING GASLINE
- PROPOSED CUT
- PROPOSED FILL
- PROPOSED DITCH
- PROPOSED SILT FENCE (PRIORITY 1)
- PROPOSED STORM MANHOLE & PIPE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED SUMP
- PROPOSED ENERGY DISSIPATER
- PROPOSED ROCK CORE DRAIN
- PROPOSED TOE KEY BENCH
- CONSERVATION EASEMENT

GPP LEGEND

- NPDES SIGN
- RAIN GAUGE
- FUEL STORAGE AREA
- EQUIPMENT STORAGE AREA
- CONCRETE WASHOUT AREA

LOCATIONS SHOWN FOR FACILITY LOCATIONS ARE THE ENGINEERS BEST ESTIMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF FACILITIES AND ENSURING RUNOFF WILL BE DIRECTED TO A BMP DURING CONSTRUCTION. IF LOCATIONS VARY, THIS PLAN WILL BE REDLINED DURING CONSTRUCTION.

APPROXIMATE TOTAL EARTHWORK QTY:

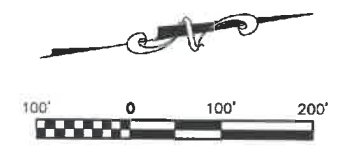
CUT = 351,100 CU YDS
 FILL = 345,340 CU YDS
 NET = 5,760 CU YDS (CUT)

APPROXIMATE STAGE 4 EARTHWORK QTY:

CUT = 135,850 CU YDS
 FILL = 128,830 CU YDS
 NET = 7,020 CU YDS (CUT)

STAGE 4 SEQUENCE OF CONSTRUCTION

1. STAGE 4 REPRESENTS THE FINAL GRADES PROPOSED FOR THIS PROJECT.
2. INSTALL ALL SLOPE PIPES.
3. INSTALL PROPOSED STORMWATER AND SANITARY SEWER STRUCTURES.
4. SEED MULCH AND STABILIZE ALL DISTURBED AREAS.
5. TEMPORARY SEDIMENT TRAP 1 WILL REMAIN IN PLACE. PLEASE SEE ITEM 5.
6. REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER 70% GROWTH HAS BEEN ESTABLISHED OVER THE ENTIRE SITE.
7. COMPLETE PROJECT CLEANUP



LAYOUT TAB: 9 ESC GRADING PLAN - STAGE 4
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NO.	BY	DATE	DESCRIPTION
2	DJW	10/24/22	Added Ditch Along Pod 1, Added Rip Rap Entrance Channel
2	DJW	10/24/22	Revised Silt Fence To Priority 1, Added Energy Dissipaters
2	DJI	10/24/22	Added Sumps Within Wildlife Lane Ditchline
1	JCP	10/19/22	Revised Sed trap, Pod 1 entrance, Wildlife Ln Pavement, Earthwork



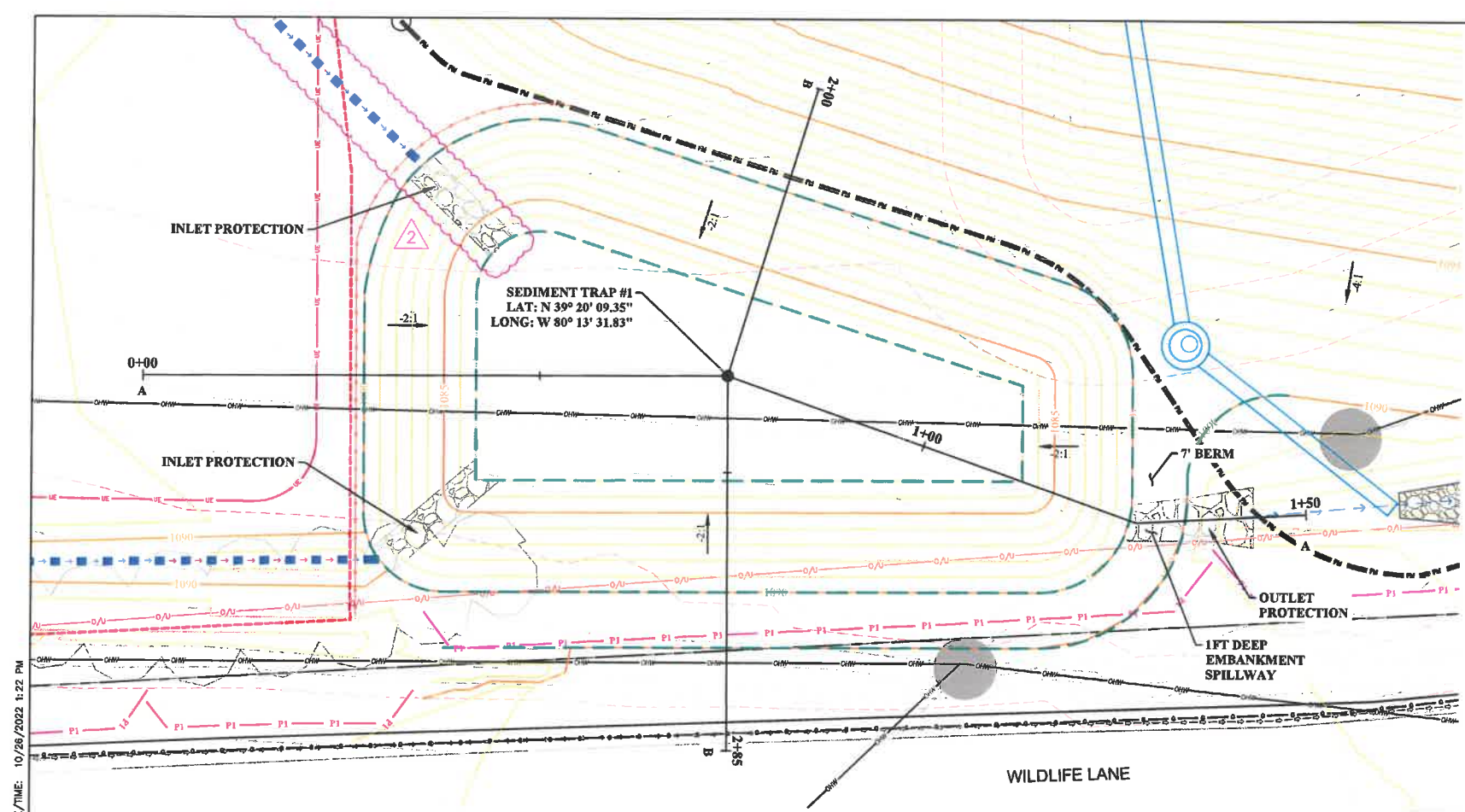
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CONTRACT No.	
PROJECT No.	T30-11114

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 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 ESC GRADING PLAN - STAGE 4

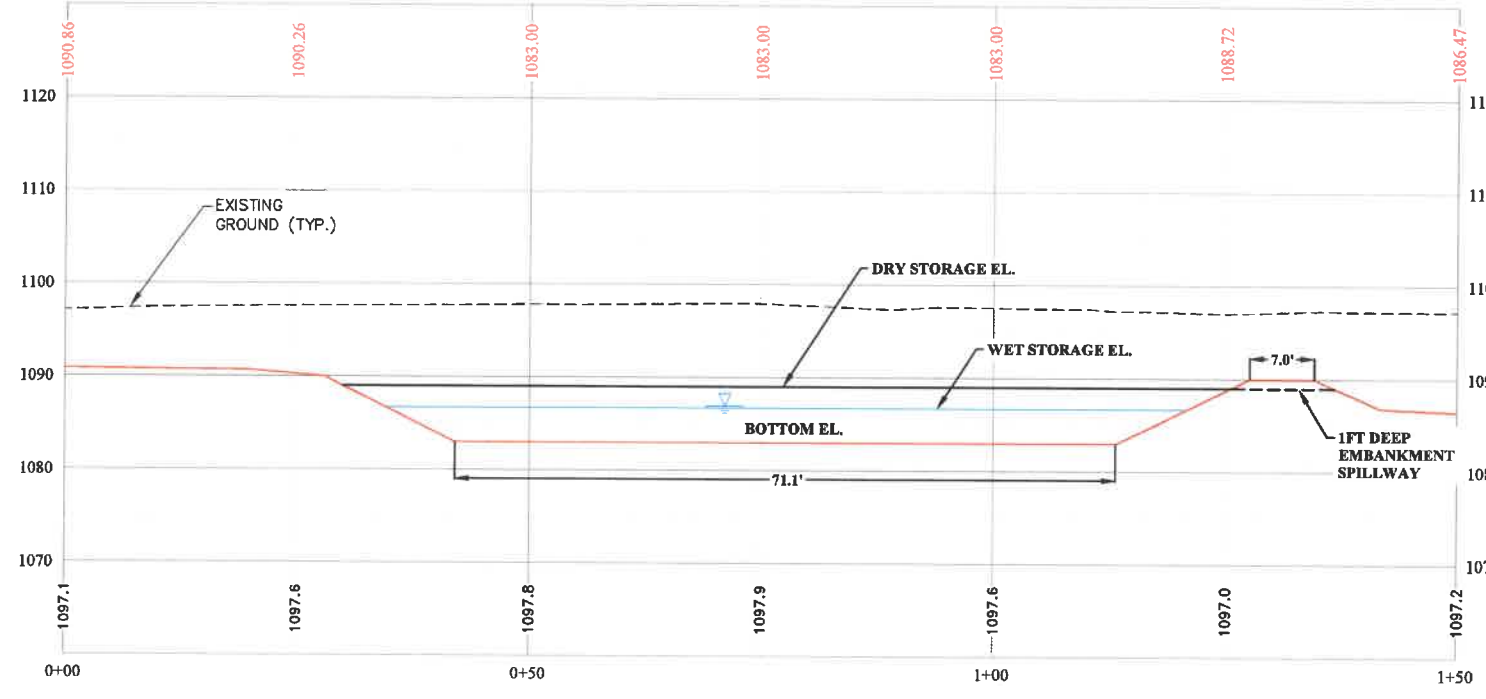
SHEET No.	9
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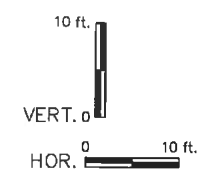
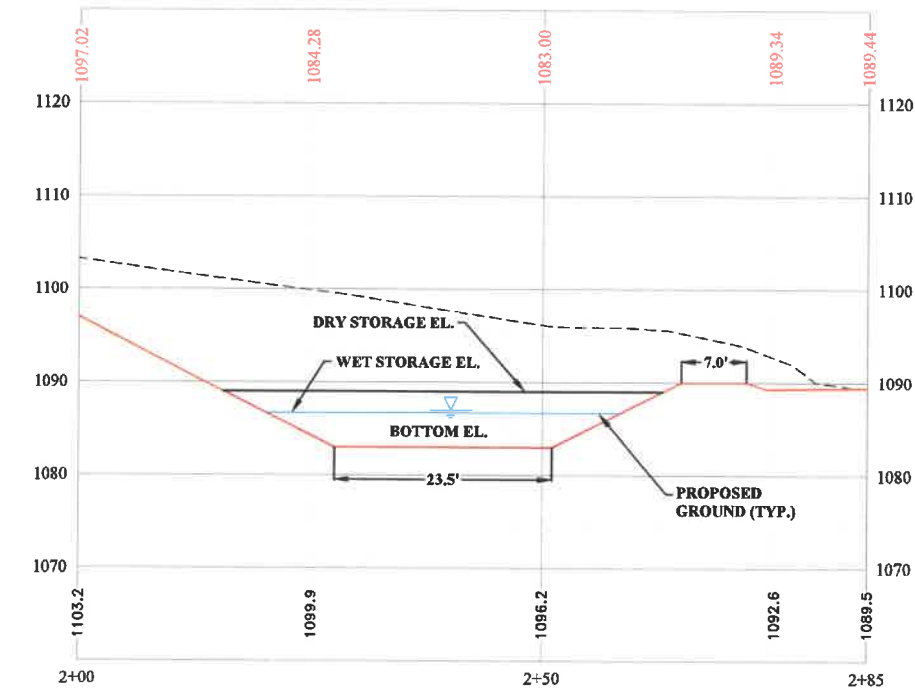
TEMPORARY SEDIMENT TRAP TABLE	
	TRAP #1
DRAINAGE AREA (AC)	4.55
REQUIRED VOLUME (CF)	16380.00
PROVIDED VOLUME (CF)	16871.00
BOTTOM EL. (FT)	1083.00
TOP OF BERM EL. (FT)	1090.00
WET STORAGE EL. (FT)	1086.70
DRY STORAGE EL. (FT)	1089.00

- ### PLAN LEGEND
- PROPERTY LINE
 - PROPOSED CONTOURS MAJOR / MINOR
 - EXISTING CONTOURS MAJOR / MINOR
 - EXISTING CURB INLET & PIPE
 - EXISTING DITCH
 - EXISTING CORE DRAIN
 - EXISTING GASLINE
 - PROPOSED CUT
 - PROPOSED FILL
 - PROPOSED DITCH
 - P1
 - PROPOSED SILT FENCE (PRIORITY 1)
 - PROPOSED STORM MANHOLE & PIPE
 - L00
 - PROPOSED LIMITS OF DISTURBANCE
 - PROPOSED SUMP

SEDIMENT TRAP #1 (A-A) PROFILE



SEDIMENT TRAP #1 (B-B) PROFILE



LAYOUT TAB: 10A SEDIMENT TRAP 1 DETAILS
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NO.	BY	DATE	DESCRIPTION
2	DJW	10/24/22	Added Ditch Along Pad 1, Added Rip Rap Entrance Channel
1	JCP	10/19/22	Revised sediment trap 1



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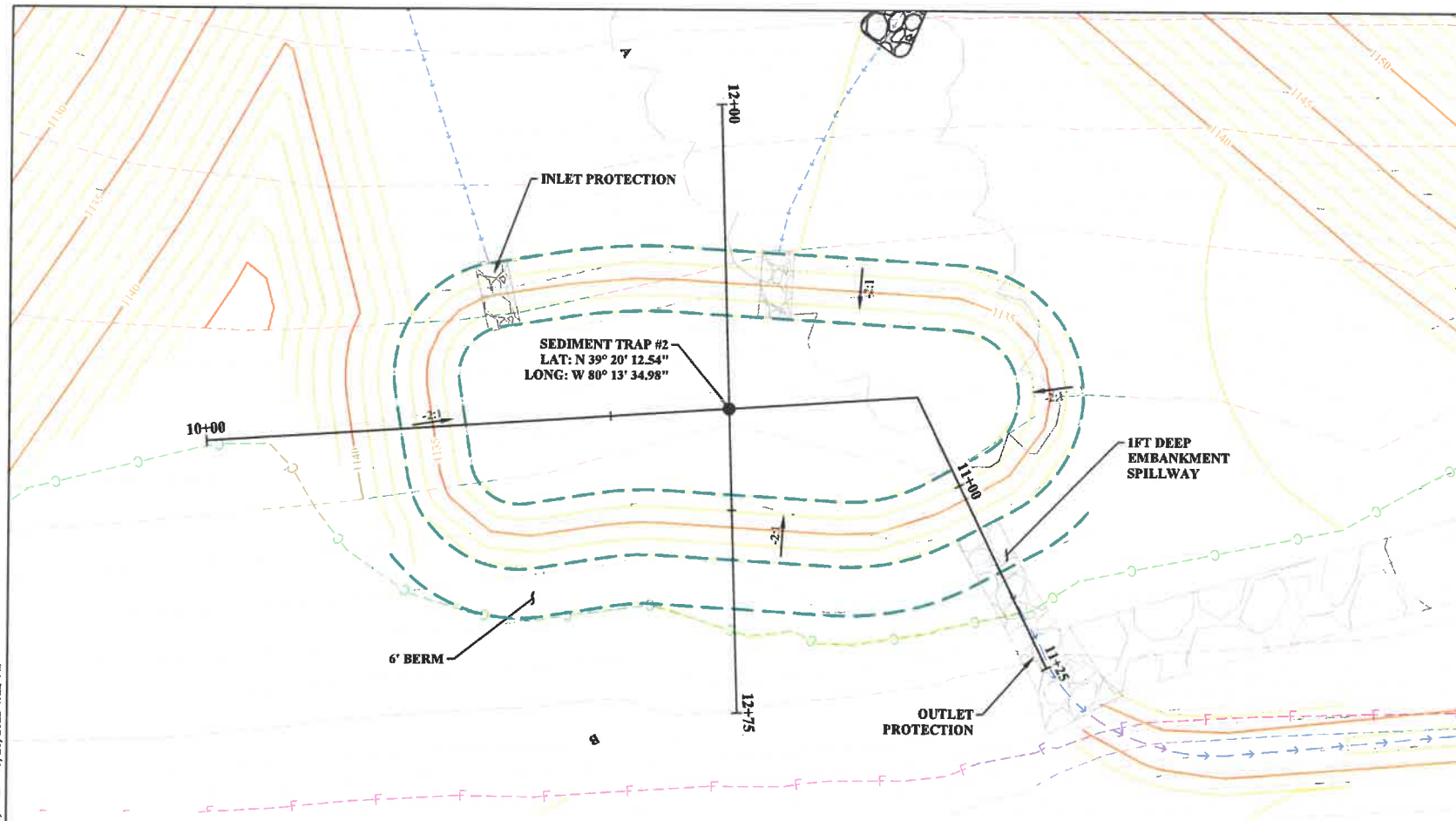
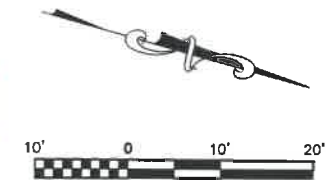
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 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 SEDIMENT TRAP 1 DETAILS

SHEET No.
10A

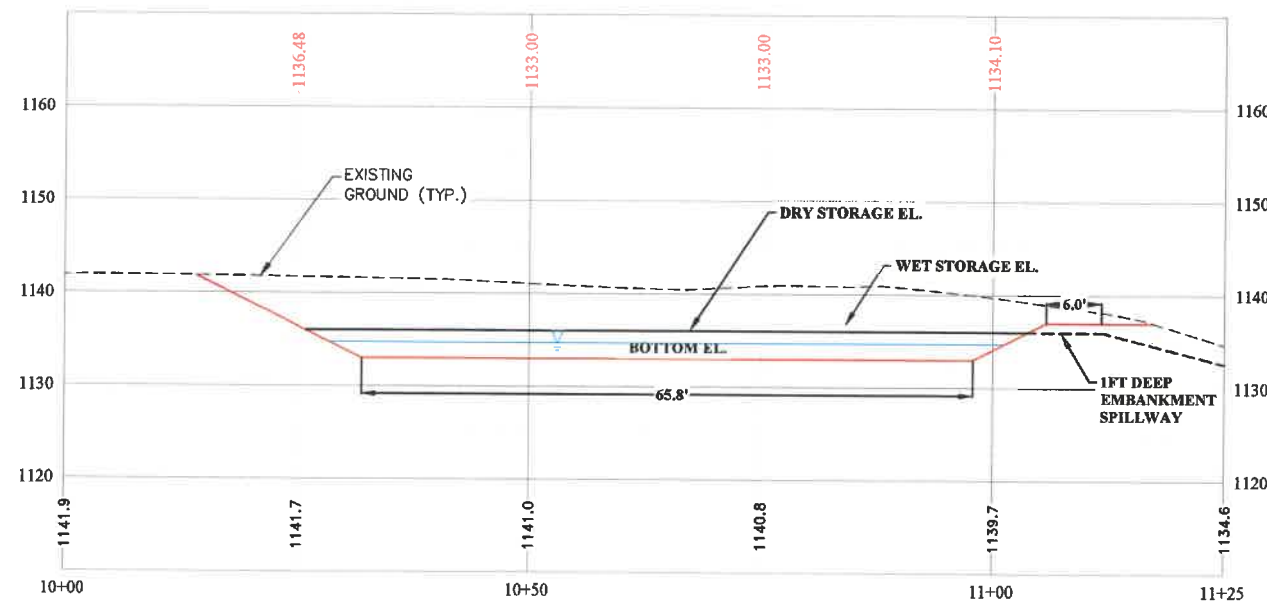
PLAN LEGEND

- PROPERTY LINE
- PROPOSED CONTOURS MAJOR / MINOR
- EXISTING CONTOURS MAJOR / MINOR
- EXISTING CURB INLET & PIPE
- EXISTING DITCH
- EXISTING CORE DRAIN
- EXISTING GASLINE
- PROPOSED CUT
- PROPOSED FILL
- PROPOSED DITCH
- PROPOSED SILT FENCE (PRIORITY 1)
- PROPOSED STORM MANHOLE & PIPE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED SUMP

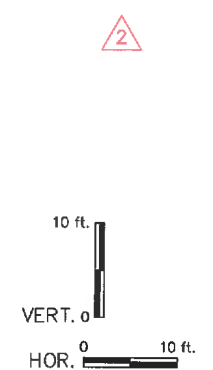
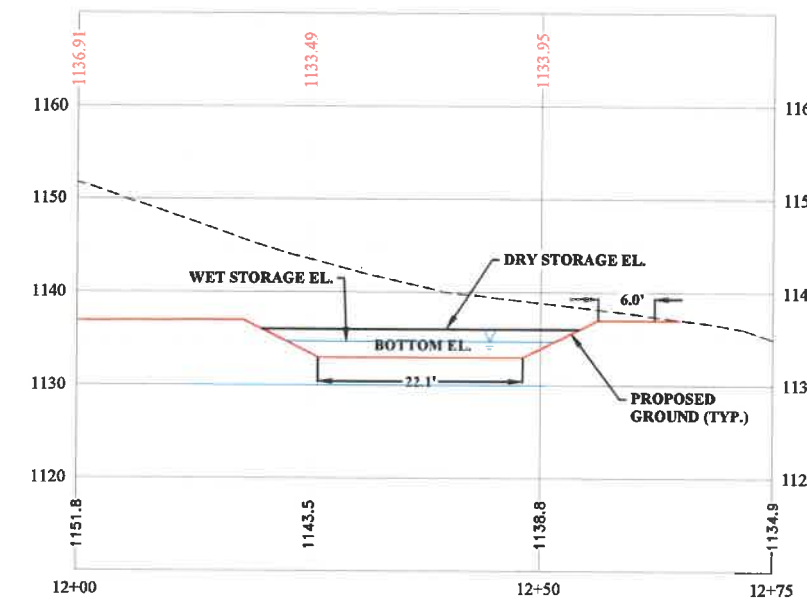
TEMPORARY SEDIMENT TRAP TABLE	
	TRAP #2
DRAINAGE AREA (AC)	1.59
REQUIRED VOLUME (CF)	5724.00
PROVIDED VOLUME (CF)	5760.00
BOTTOM EL. (FT)	1133.00
TOP OF BERM EL. (FT)	1137.00
WET STORAGE EL. (FT)	1134.70
DRY STORAGE EL. (FT)	1136.00



SEDIMENT TRAP #2 (A-A) PROFILE



SEDIMENT TRAP #2 (B-B) PROFILE



LAYOUT TAB: 10B SEDIMENT TRAP 2 DETAILS
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NO.	BY	DATE	DESCRIPTION
2	JCP	10/26/22	Added sediment trap 2



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SURVEY DATE: _____
SURVEY BY: _____
FIELD BOOK No.: _____

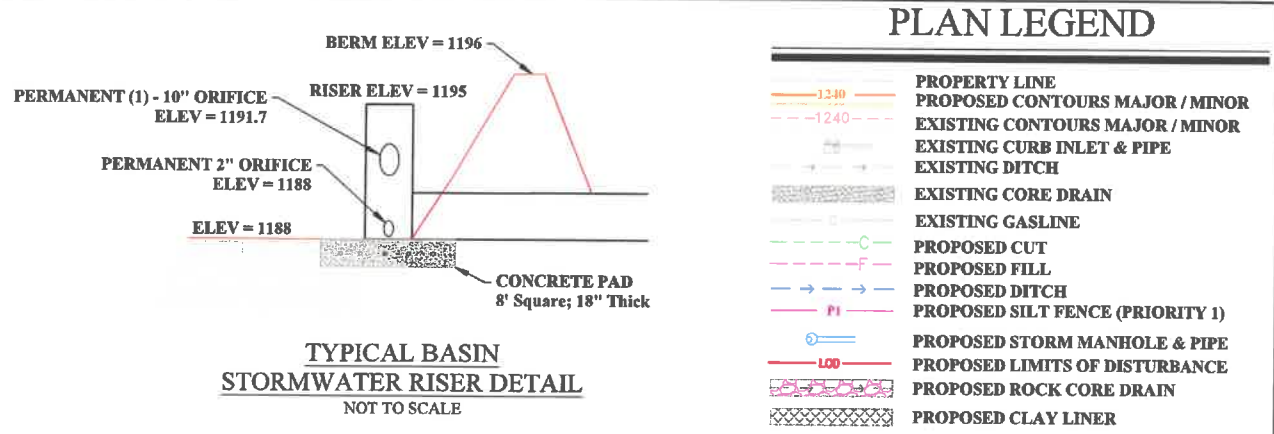
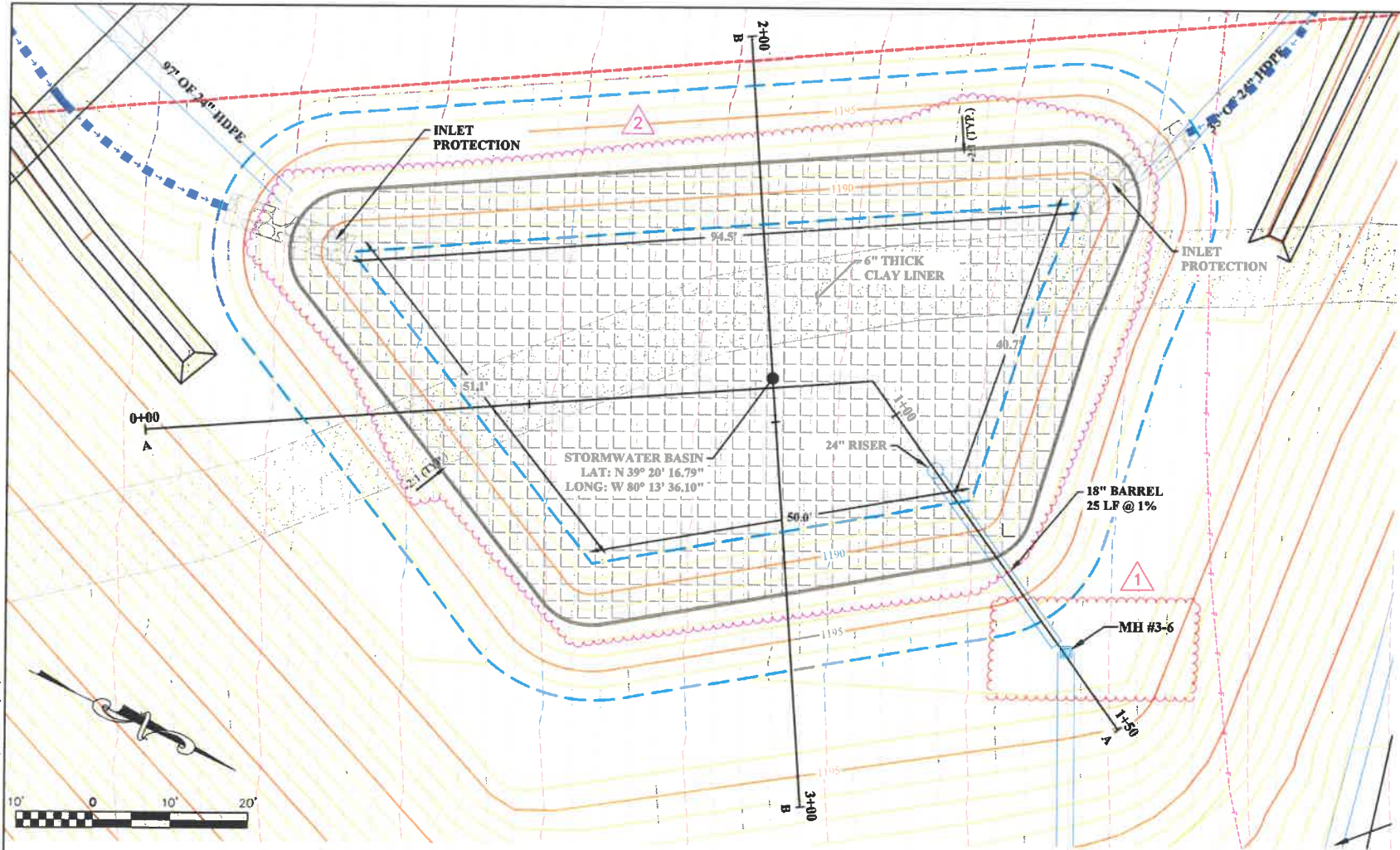
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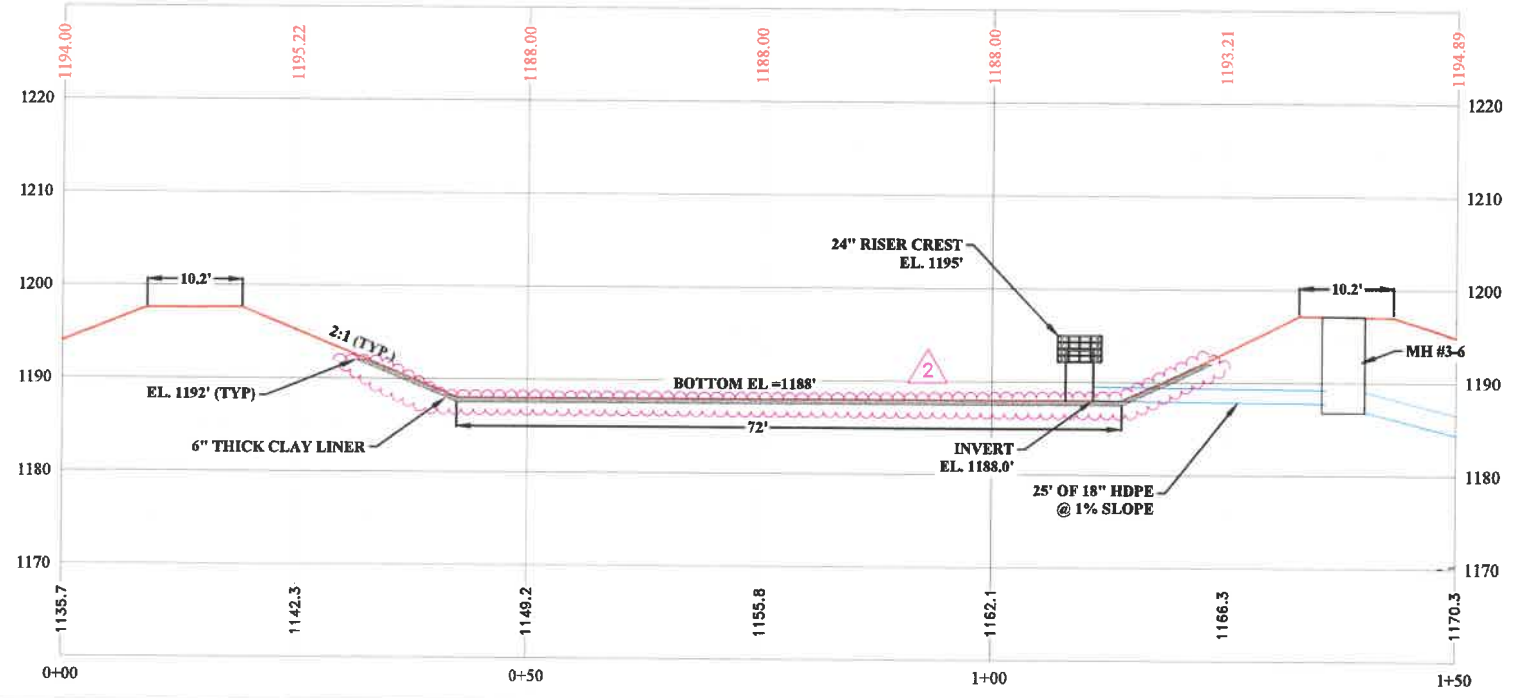
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 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 SEDIMENT TRAP 2 DETAILS

SHEET No.
10B

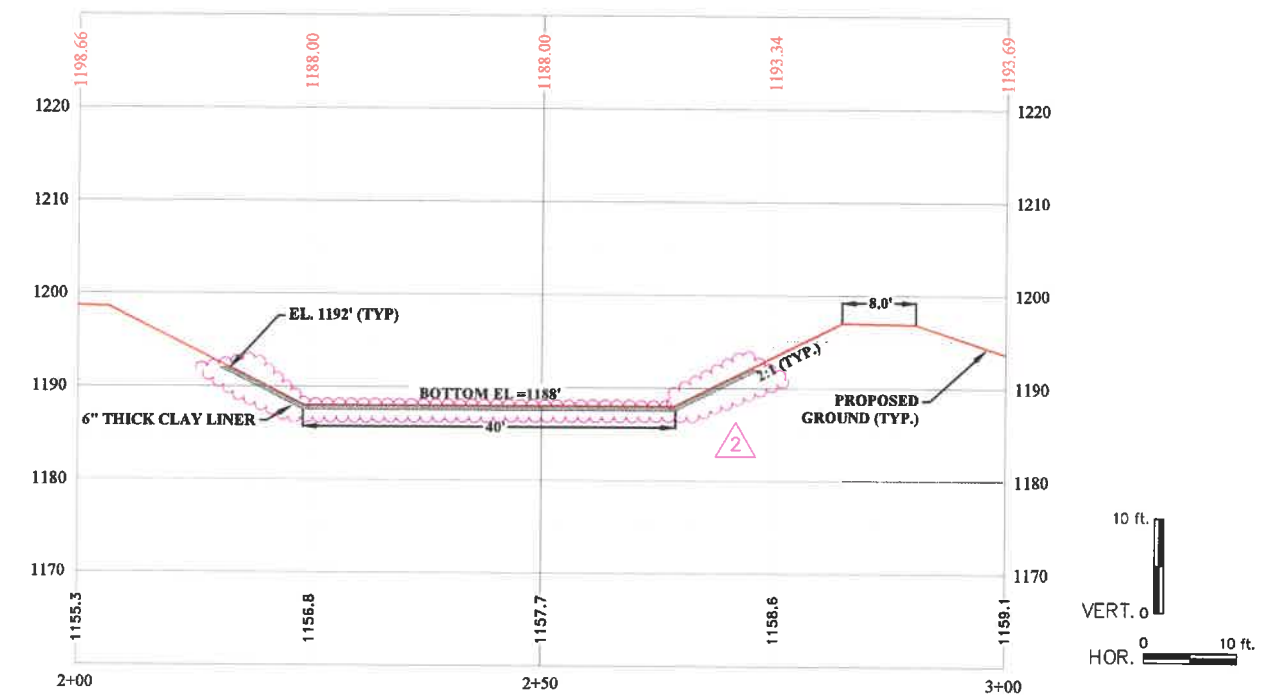
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 PLOT DATE/TIME: 10/26/2022 1:23 PM



STORMWATER BASIN (A-A) PROFILE



STORMWATER BASIN (B-B) PROFILE



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NO.	BY	DATE	DESCRIPTION
2	JCP	10/26/22	Added clay liner
1	JCP	10/19/22	Manhole 3-6



SCALE: AS SHOWN	DATE:
DRAWN:	DATE:
CHECKED:	DATE:
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

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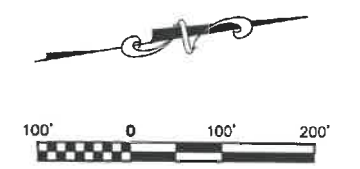
PHASE No.	
CONTRACT No.	
PROJECT No.	T30-11114

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 STORMWATER BASIN DETAIL

SHEET No.	11
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PLAN LEGEND

- PROPERTY LINE
- PROPOSED CONTOURS MAJOR / MINOR
- EXISTING CONTOURS MAJOR / MINOR
- EXISTING CURB INLET & PIPE
- EXISTING DITCH
- EXISTING CORE DRAIN
- EXISTING GASLINE
- PROPOSED CUT
- PROPOSED FILL
- PROPOSED DITCH
- PROPOSED SILT FENCE (PRIORITY 1)
- PROPOSED STORM MANHOLE & PIPE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED ROCK CORE DRAIN
- PROPOSED TOE KEY BENCH
- PROPOSED SUMP
- PROPOSED GRAVEL SHOULDER
- PROPOSED OVERLAY
- PROPOSED FULL DEPTH PAVEMENT



LAYOUT TAB: 13 PAD BASELINES
 CAD FILE: R:\030\030-10341-00-White Oaks Phase II 2021-High Tech Corridor Development, LLC-Drawing\10341-PAD PROFILES.dwg
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NO.	BY	DATE	DESCRIPTION
2	JCP	10/26/22	Legend revision



SCALE: AS SHOWN	
DRAWN: _____	DATE: _____
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APPROVED: _____	DATE: _____
SURVEY DATE: _____	
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FIELD BOOK No.: _____	

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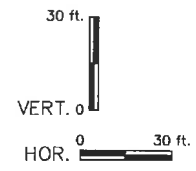
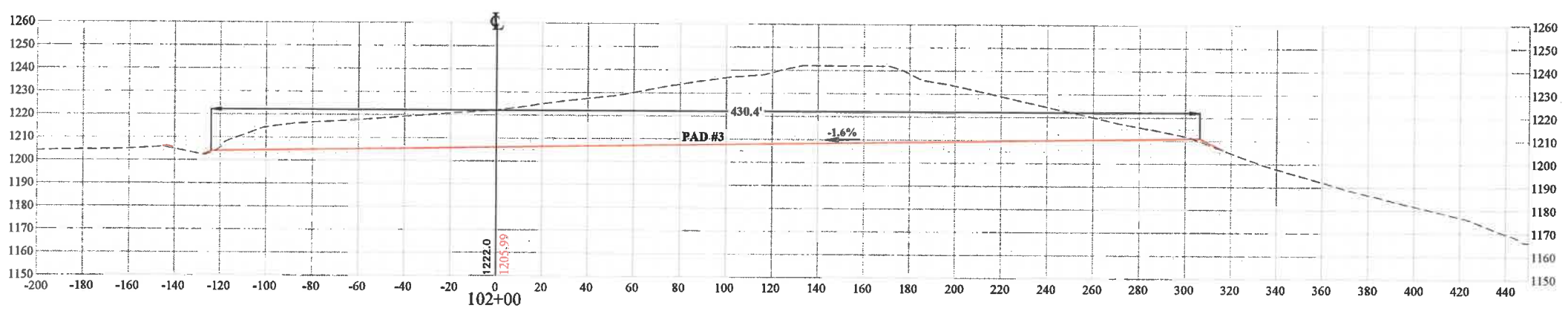
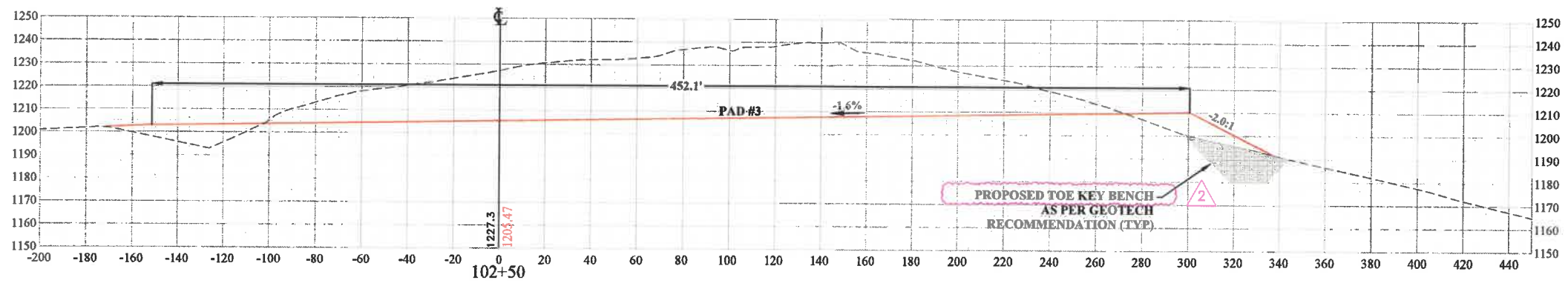
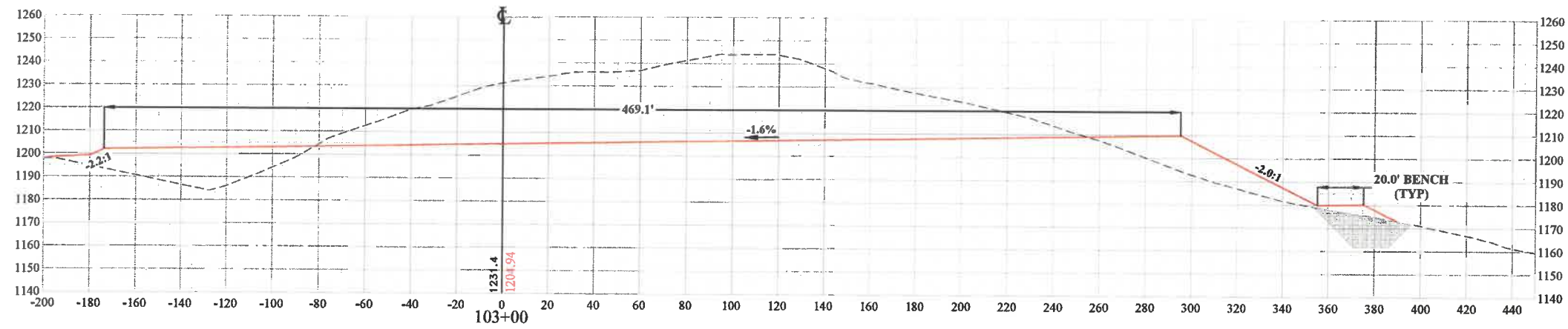
PHASE No.	
CONTRACT No.	
PROJECT No.	T30-11114

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 PAD BASELINES

SHEET No.
13

SECTION LEGEND

--- EXISTING GROUND
 --- PROPOSED GRADE



PLOT DATE/TIME: 10/26/2022 1:24 PM

LAYOUT TAB: 15 BASELINE A - PAD SECTIONS
 CAD FILE: R:\030\030-1034100-White Oaks Phase II 2021-High Tech Corridor Development, LLC-Drawing\0341-PAD PROFILES.dwg

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NO.	BY	DATE	REVISION	DESCRIPTION
2	JCP	10/26/22	Revised label	



SCALE: AS SHOWN
 DRAWN: DATE:
 CHECKED: DATE:
 APPROVED: DATE:
 SURVEY DATE:
 SURVEY BY:
 FIELD BOOK No.:



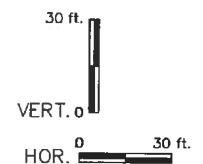
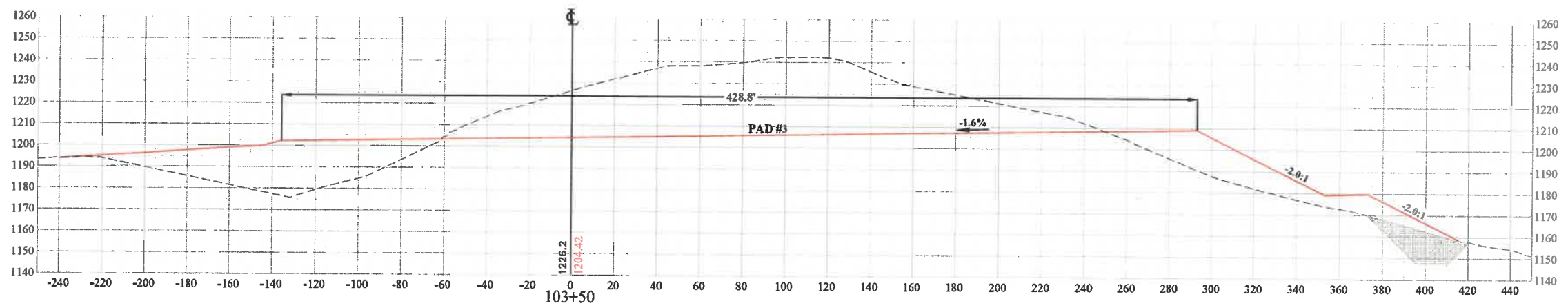
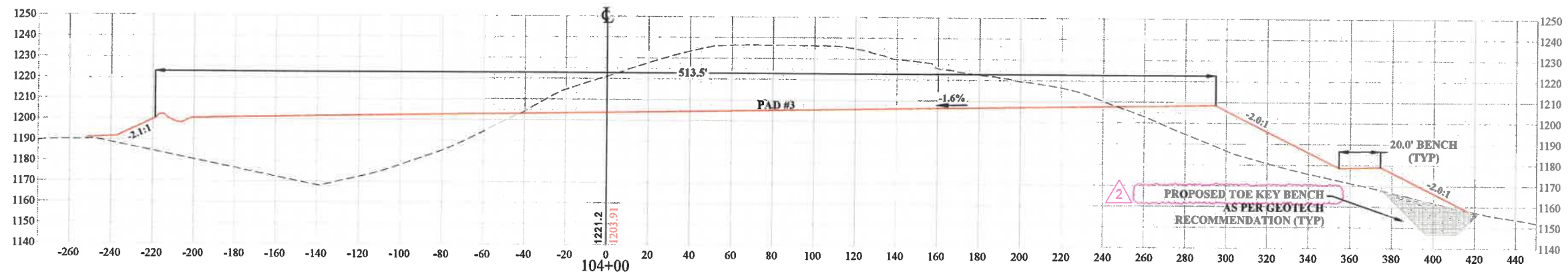
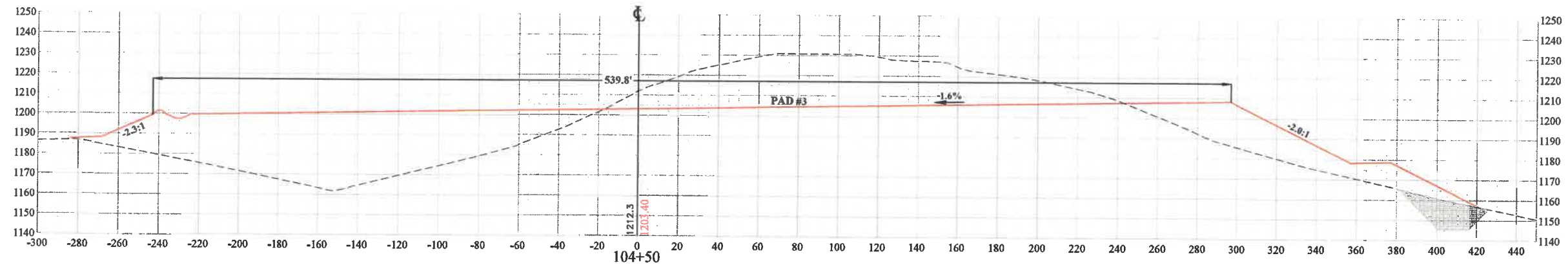
PHASE No.
 CONTRACT No.
 PROJECT No.
T30-11114

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 BASELINE A - PAD SECTIONS

SHEET No.
15

SECTION LEGEND

--- EXISTING GROUND
 --- PROPOSED GRADE



LAYOUT TAB: 16 BASELINE A - PAD SECTIONS
 CAD FILE: R:\30\1030-1034\100-White Oaks Phase II 2021-High Tech Corridor Development, LLC - Drawing\10341-PAD PROFILES.dwg
 PLOT DATE/TIME: 10/26/2022 1:24 PM

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NO.	BY	DATE	Revised Label	DESCRIPTION
2	JCP	10/26/22		



SCALE: AS SHOWN
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 APPROVED: DATE:
 SURVEY DATE:
 SURVEY BY:
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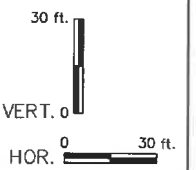
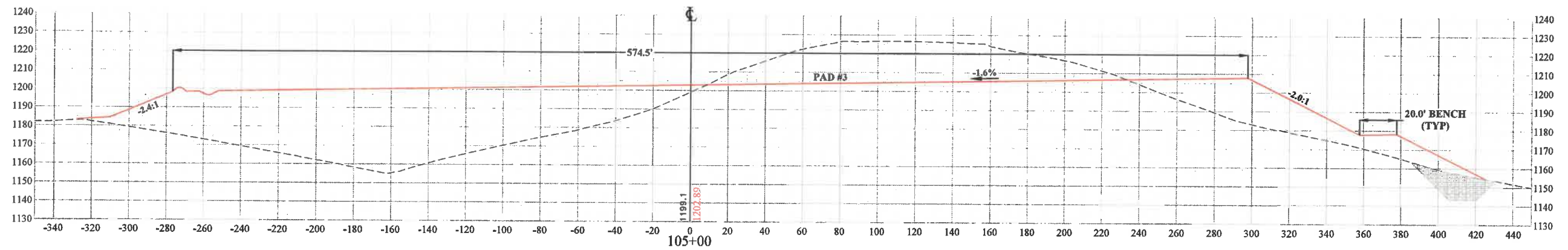
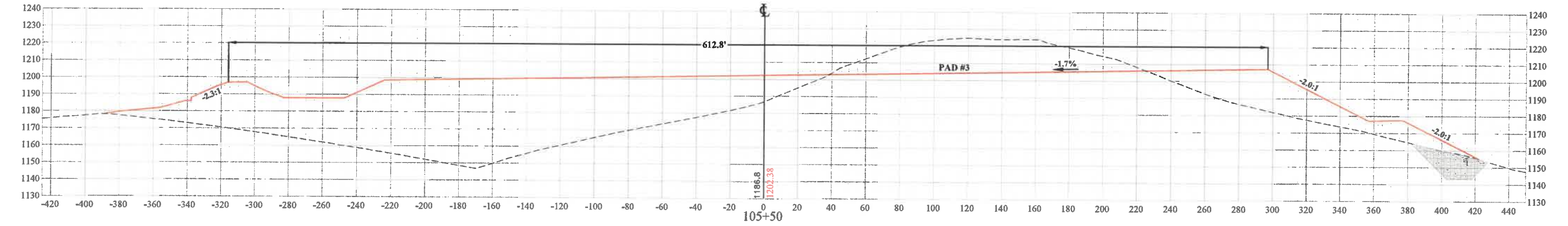
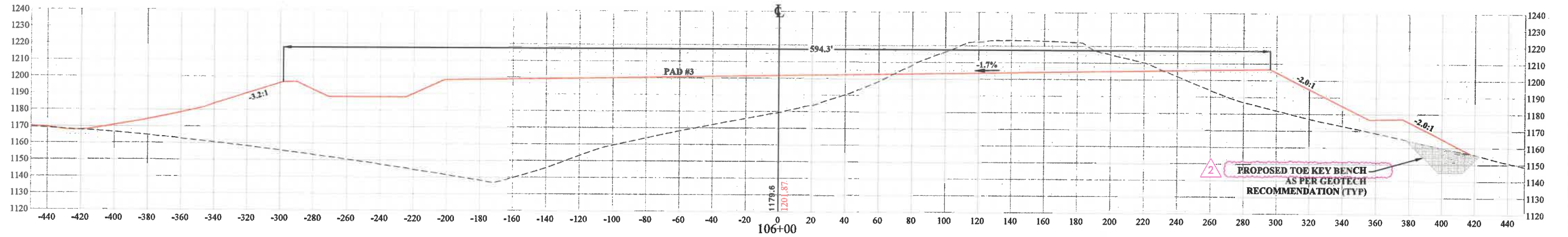
PHASE No.
 CONTRACT No.
 PROJECT No.
T30-11114

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 BASELINE A - PAD SECTIONS

SHEET No.
16

SECTION LEGEND

--- EXISTING GROUND
 --- PROPOSED GRADE



LAYOUT TAB: 17 BASELINE A - PAD SECTIONS
 CAD FILE: R:\030\030-10341-00-White Oaks Phase II 2021-High Tech Corridor Development, LLC-Drawing\10341-PAD PROFILES.dwg
 PLOT DATE/TIME: 10/26/2022 1:24 PM

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2	JCP	10/26/22	Revised Label



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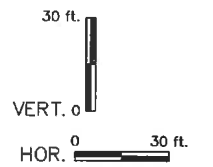
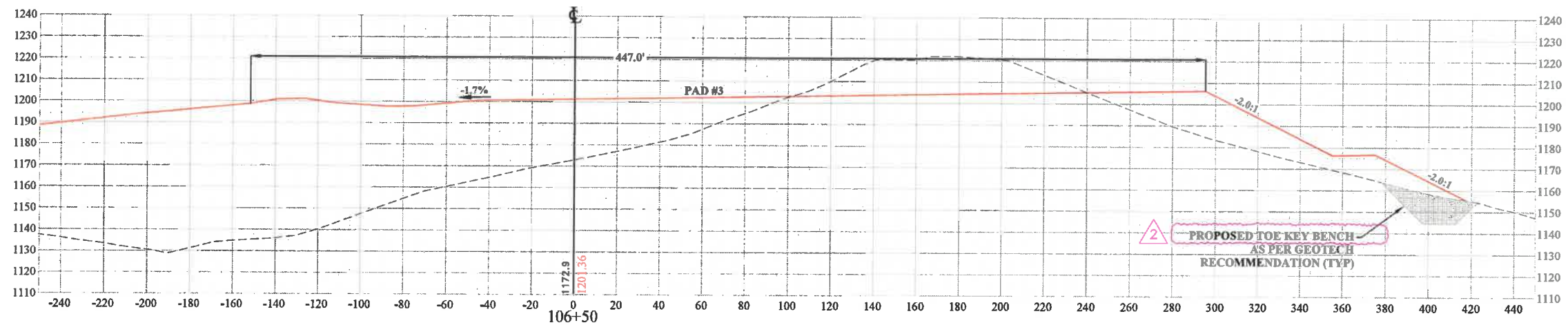
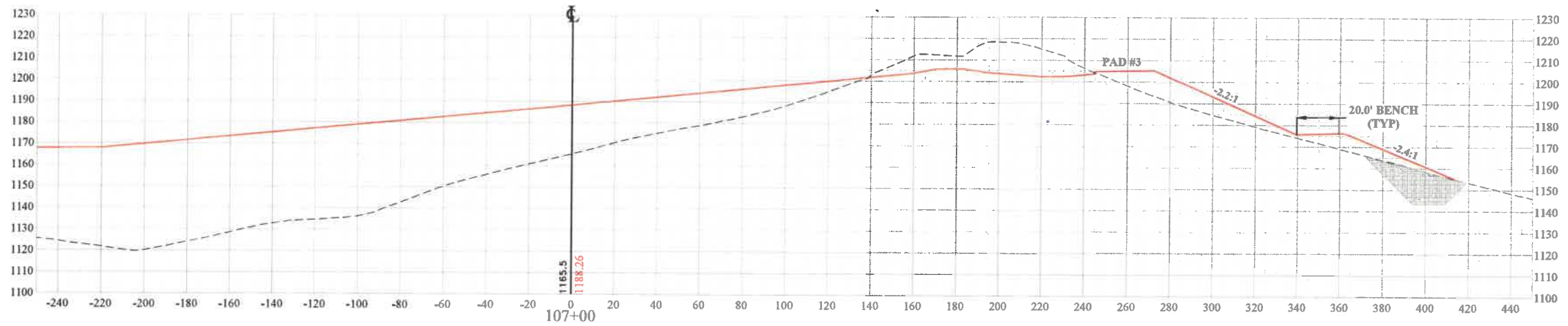
PHASE No.
CONTRACT No.
PROJECT No.
T30-11114

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 BASELINE A - PAD SECTIONS

SHEET No.
17

SECTION LEGEND

--- EXISTING GROUND
 --- PROPOSED GRADE



PLOT DATE/TIME: 10/26/2022 1:24 PM

LAYOUT TAB: 18 BASELINE A - PAD SECTIONS
 CAD FILE: R:\030\030-10341.00-White Oaks Phase II 2021-High Tech Corridor Development, LLC-Vrawing\0341-PAD PROFILES.dwg

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NO.	BY	DATE	DESCRIPTION
2	JCP	10/26/22	Revised Label



SCALE: AS SHOWN
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 CHECKED: DATE:
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 SURVEY BY:
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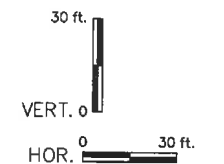
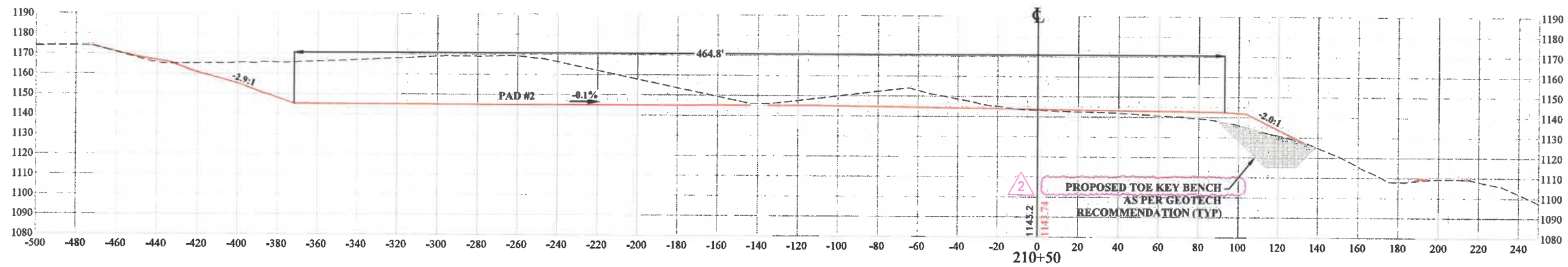
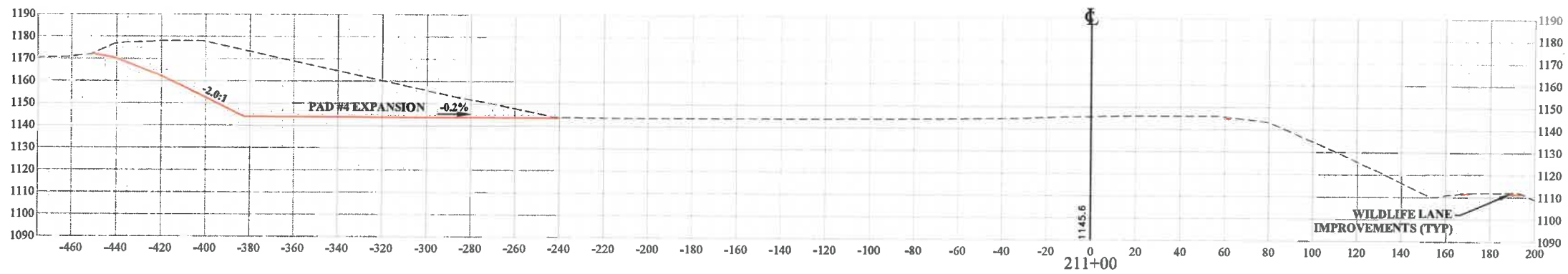
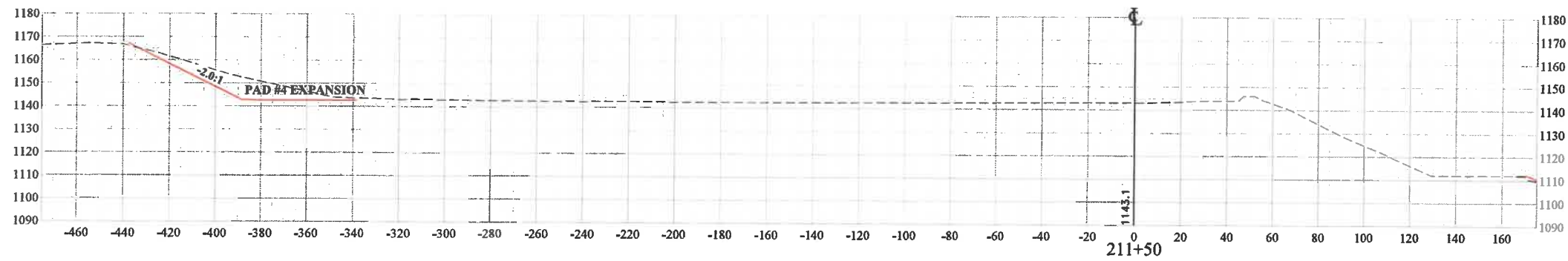
PHASE No.
 CONTRACT No.
 PROJECT No.
T30-11114

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 BASELINE A - PAD SECTIONS

SHEET No.
18

SECTION LEGEND

--- EXISTING GROUND
 --- PROPOSED GRADE



PLOT DATE/TIME: 10/26/2022 1:25 PM

LAYOUT TAB: 02 BASELINE B - PAD SECTIONS
 CAD FILE: R:\030\030-1034\100-White Oaks Phase II 2021-High Tech Corridor Development, LLC-Drawing\03041-PAD PROFILES.dwg

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NO.	BY	DATE	DESCRIPTION
2	JCP	10/26/22	Revised Label



SCALE: AS SHOWN
 DRAWN: DATE:
 CHECKED: DATE:
 APPROVED: DATE:
 SURVEY DATE:
 SURVEY BY:
 FIELD BOOK No.:

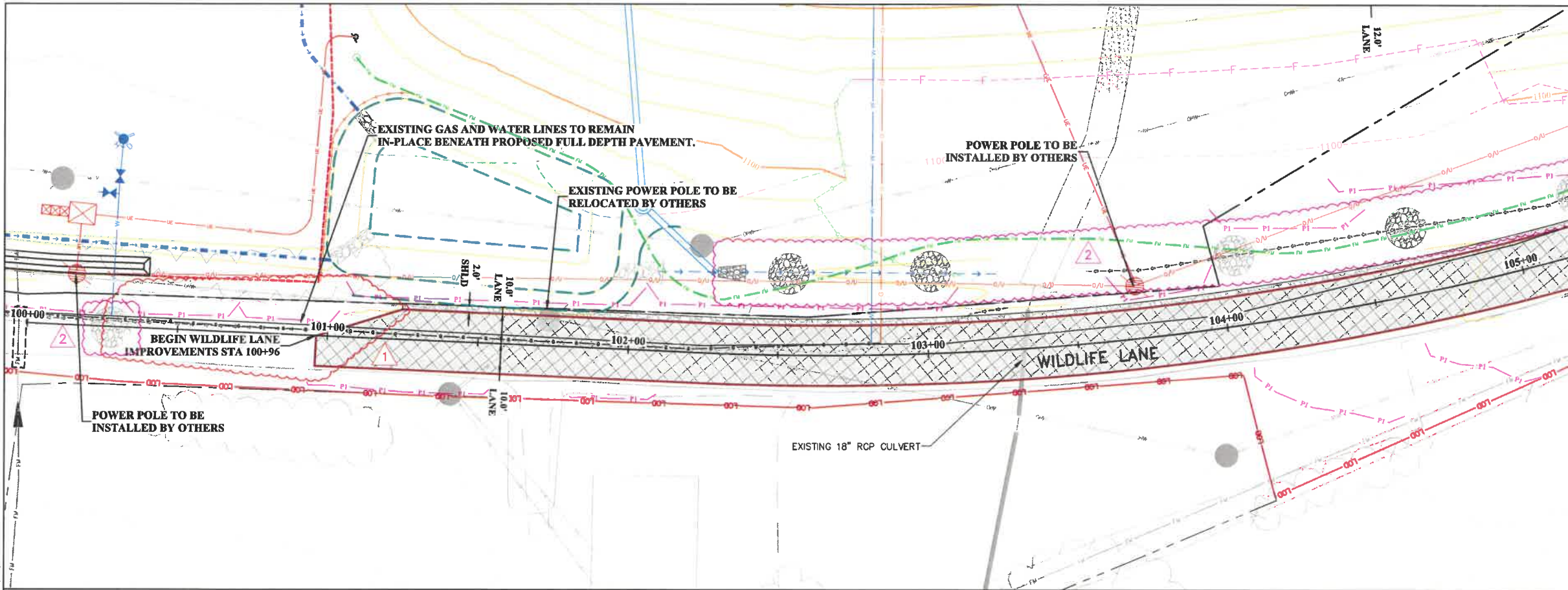


PHASE No.
 CONTRACT No.
 PROJECT No.
T30-1114

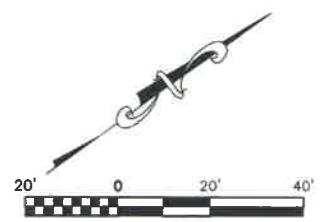
ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 BASELINE B - PAD SECTIONS

SHEET No.
29

LAYOUT TAB: 30 WILDLIFE LANE PLAN & PROFILE
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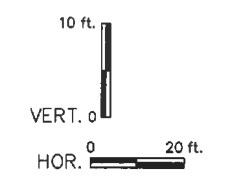
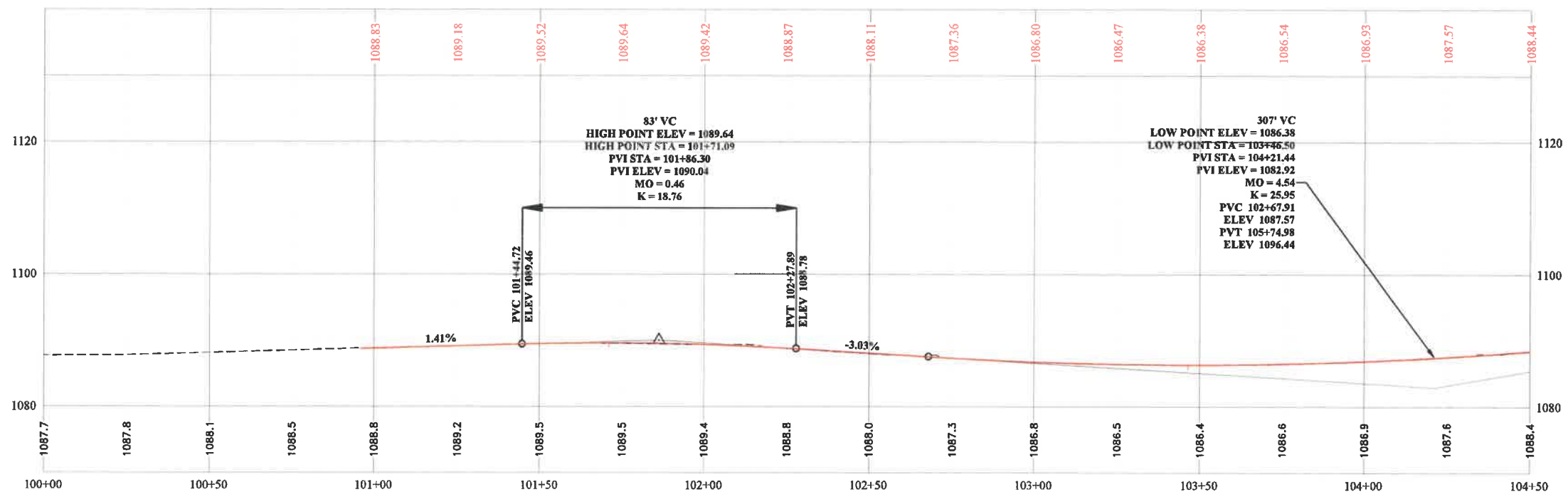


- ### PLAN LEGEND
- PROPERTY LINE
 - PROPOSED CONTOURS MAJOR / MINOR
 - EXISTING CONTOURS MAJOR / MINOR
 - EXISTING CURB INLET & PIPE
 - EXISTING DITCH
 - EXISTING CORE DRAIN
 - EXISTING GASLINE
 - PROPOSED CUT
 - PROPOSED FILL
 - PROPOSED DITCH
 - PROPOSED PRIORITY 1 SILT FENCE
 - PROPOSED STORM MANHOLE & PIPE
 - PROPOSED LIMITS OF DISTURBANCE
 - PROPOSED ROCK CORE DRAIN
 - PROPOSED TOE KEY BENCH
 - PROPOSED SUMP
 - PROPOSED ENERGY DISSIPATER
 - PROPOSED GRAVEL SHOULDER
 - PROPOSED OVERLAY
 - PROPOSED FULL DEPTH PAVEMENT



WILDLIFE LANE PROFILE

- ### PROFILE LEGEND
- EXISTING GROUND
 - PROPOSED GRADE



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NO.	BY	DATE	DESCRIPTION
2	DJW	10/24/22	Rock Toe Key Revised To Toe Key Bench
2	DJW	10/24/22	Revised Silt Fence To Priority 1
2	DJW	10/24/22	Added Sumps Within Wildlife Lane Ditchline. Added Energy Dissipaters
1	JCP	10/19/22	Pavement adjustment



SCALE: AS SHOWN
 DRAWN: DATE:
 CHECKED: DATE:
 APPROVED: DATE:
 SURVEY DATE:
 SURVEY BY:
 FIELD BOOK No.:

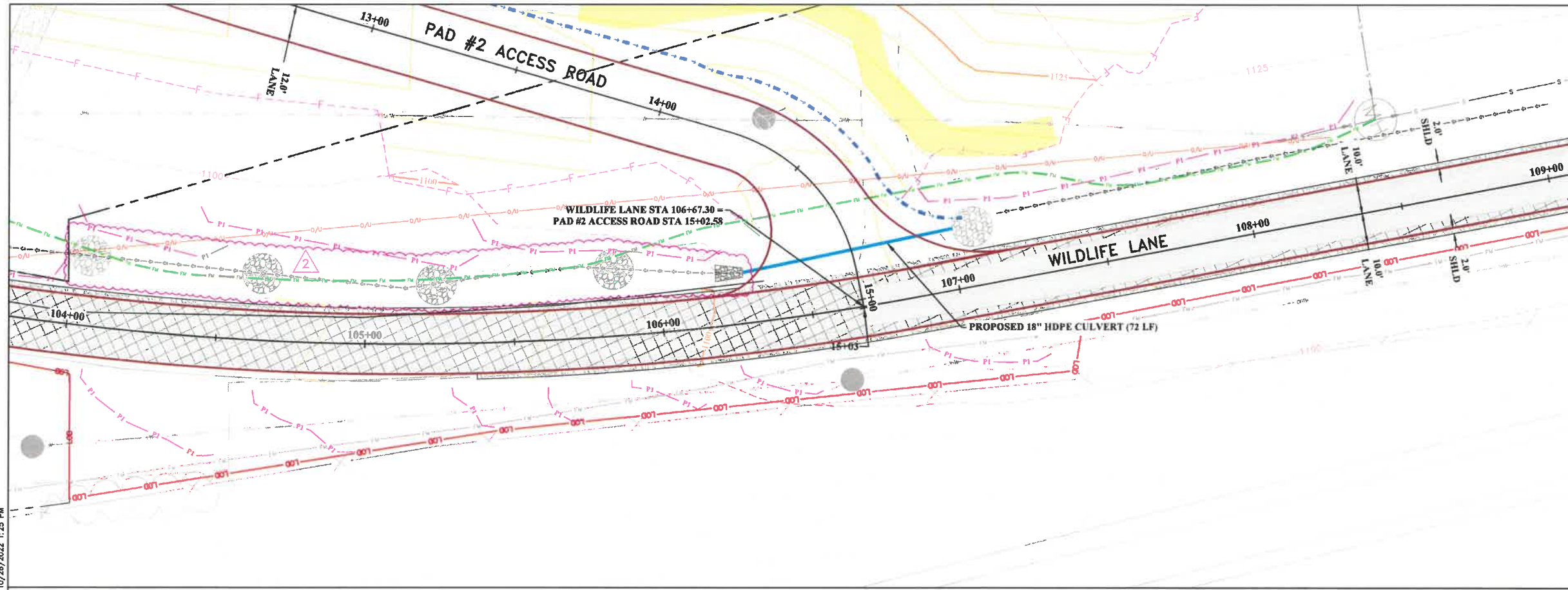


PHASE No.	
CONTRACT No.	
PROJECT No.	T30-11114

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 WILDLIFE LANE PLAN & PROFILE

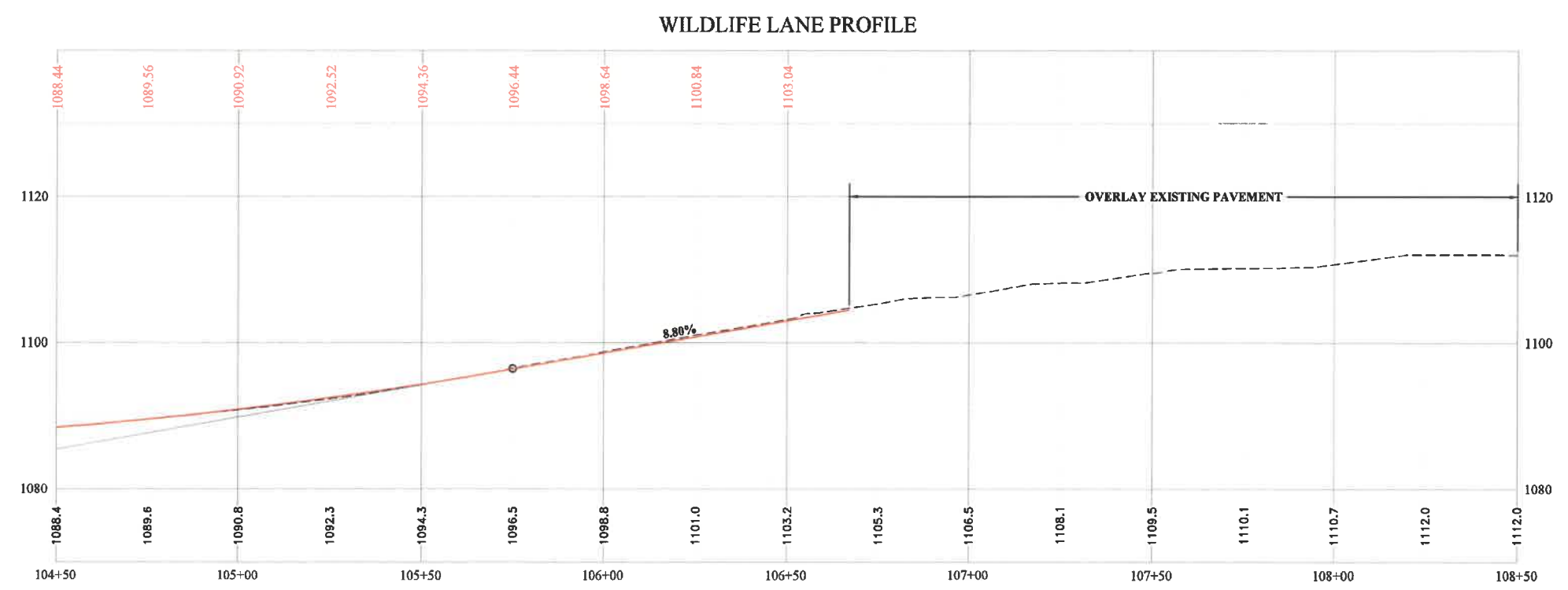
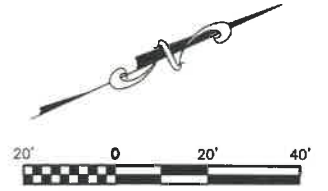
SHEET No.
30

LAYOUT TAB: 31 WILDLIFE LANE PLAN & PROFILE
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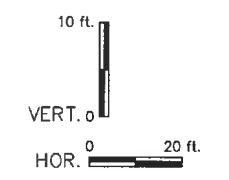
PLAN LEGEND

	PROPERTY LINE
	PROPOSED CONTOURS MAJOR / MINOR
	EXISTING CONTOURS MAJOR / MINOR
	EXISTING CURB INLET & PIPE
	EXISTING DITCH
	EXISTING CORE DRAIN
	EXISTING GASLINE
	PROPOSED CUT
	PROPOSED FILL
	PROPOSED DITCH
	PROPOSED PRIORITY 1 SILT FENCE
	PROPOSED STORM MANHOLE & PIPE
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED ROCK CORE DRAIN
	PROPOSED TOE KEY BENCH
	PROPOSED SUMP
	PROPOSED ENERGY DISSIPATER
	PROPOSED GRVEL SHOULDER
	PROPOSED OVERLAY
	PROPOSED FULL DEPTH PAVEMENT



PROFILE LEGEND

	EXISTING GROUND
	PROPOSED GRADE



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NO.	BY	DATE	DESCRIPTION
2	DJW	10/24/22	Rock Toe Key Revised To Toe Key Bench
2	DJW	10/24/22	Revised Sit Fence To Priority 1
2	DJW	10/24/22	Added Sumps Within Wildlife Lane Ditchline, Added Energy Dissipaters



SCALE: AS SHOWN

DRAWN:	DATE:
CHECKED:	DATE:
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	



PHASE No.	
CONTRACT No.	
PROJECT No.	T30-11114

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 WILDLIFE LANE PLAN & PROFILE

SHEET No.	31
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32 WILDLIFE LANE PLAN & PROFILE
LAYOUT TAB: R:\030\10301-10341-00-White Oaks Phase II 2021-High Tech Corridor Development, LLC-Drawing\10341-WILDLIFE LANE-PF.dwg
PLOT DATE/TIME: 10/26/2022 1:26 PM

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NO.	BY	DATE	DESCRIPTION
2	DJW	10/24/22	Rock Toe Key Revised To Toe Key Bench
2	DJW	10/24/22	Revised Silt Fence To Priority 1

NO.	BY	DATE	DESCRIPTION
2	DJW	10/24/22	Rock Toe Key Revised To Toe Key Bench
2	DJW	10/24/22	Revised Silt Fence To Priority 1



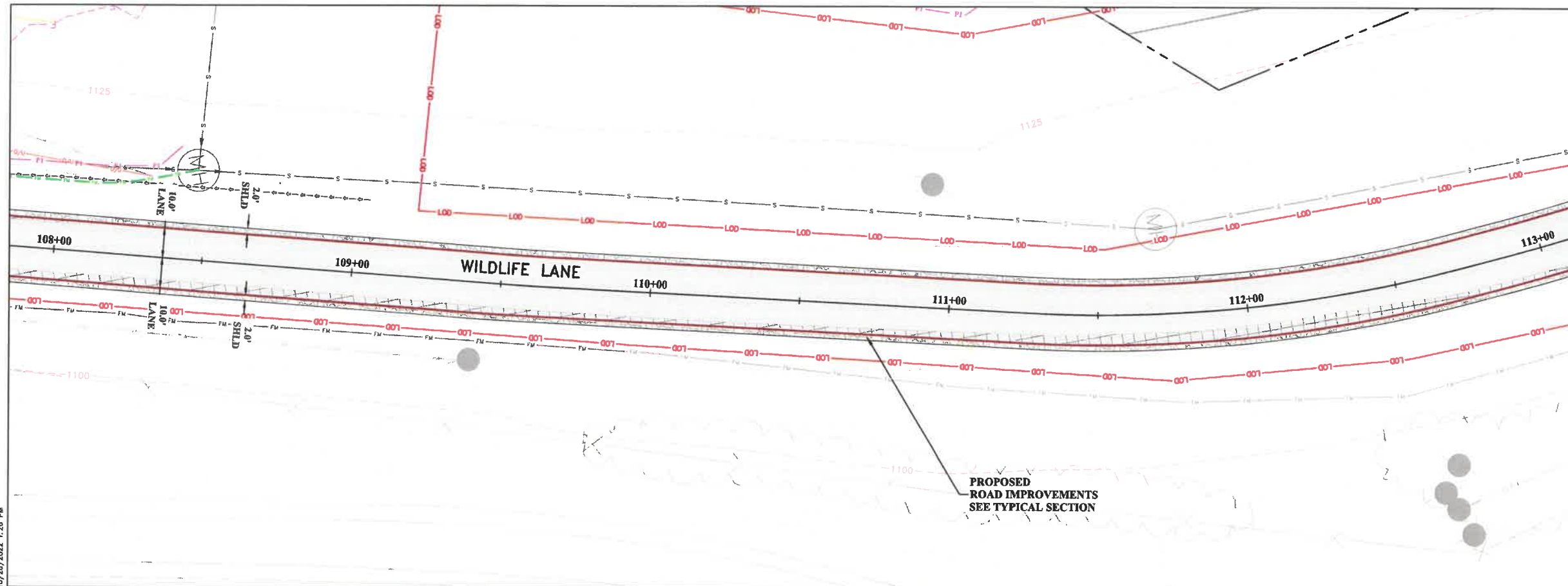
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FIELD BOOK No.:



PHASE No.
CONTRACT No.
PROJECT No.
T30-1114

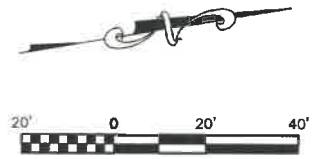
ISSUED FOR BID PLANS FOR
WHITE OAKS BUSINESS PARK
PHASE II A
BRIDGEPORT, WEST VIRGINIA
WILDLIFE LANE PLAN & PROFILE

SHEET No.
32

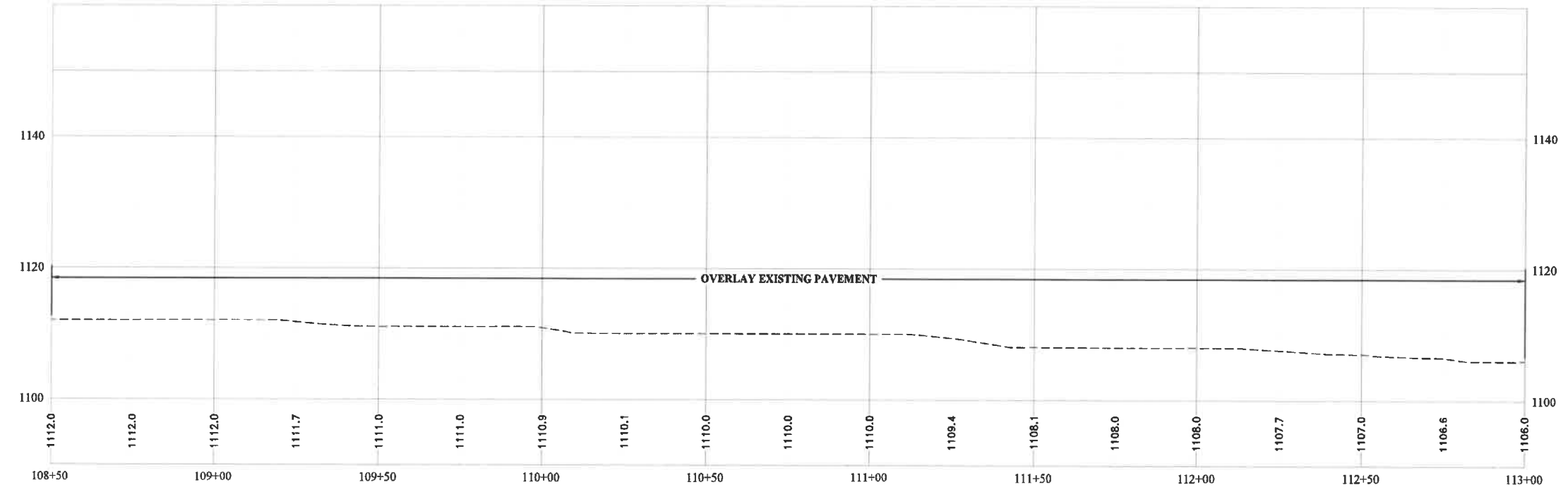


PLAN LEGEND

- PROPERTY LINE
- PROPOSED CONTOURS MAJOR / MINOR
- EXISTING CONTOURS MAJOR / MINOR
- EXISTING CURB INLET & PIPE
- EXISTING CORE DRAIN
- EXISTING GASLINE
- PROPOSED CUT
- PROPOSED DITCH
- PROPOSED PRIORITY 1 SILT FENCE
- PROPOSED STORM MANHOLE & PIPE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED ROCK CORE DRAIN
- PROPOSED TOE KEY BENCH
- PROPOSED SUMP
- PROPOSED ENERGY DISSIPATER
- PROPOSED GRAVEL SHOULDER
- PROPOSED OVERLAY
- PROPOSED FULL DEPTH PAVEMENT

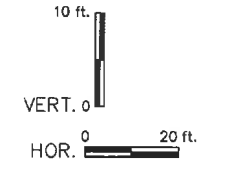


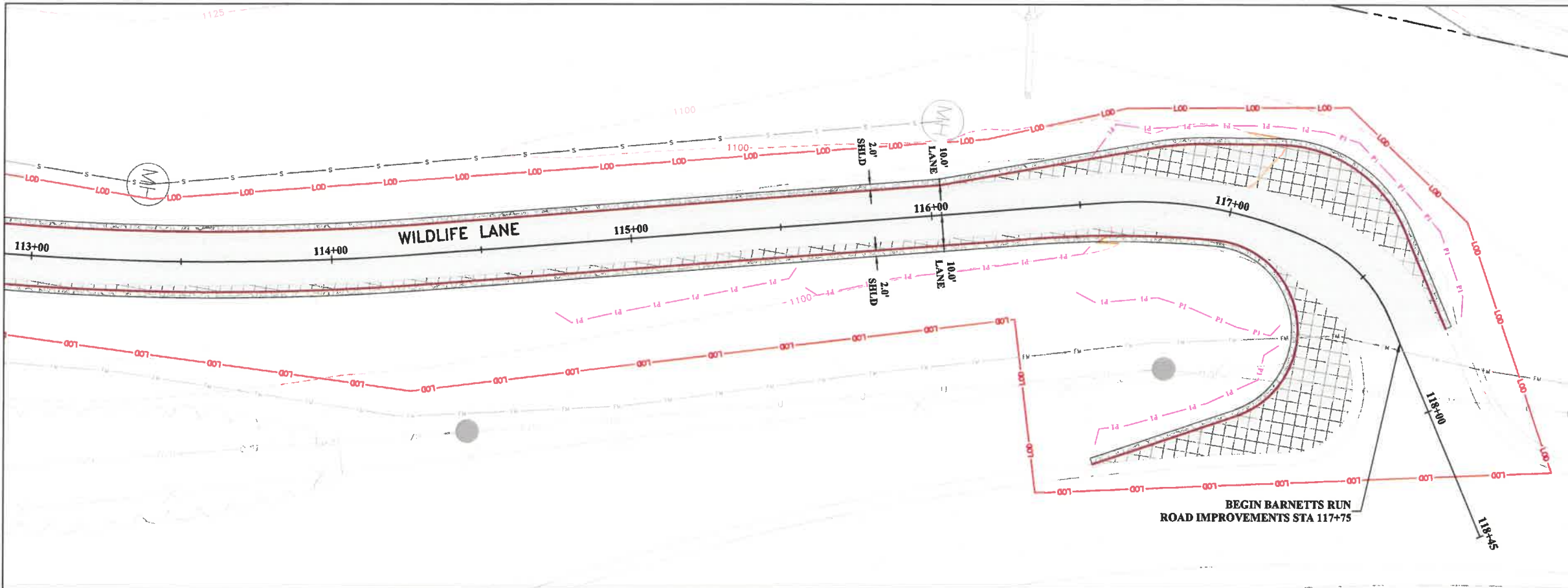
WILDLIFE LANE PROFILE



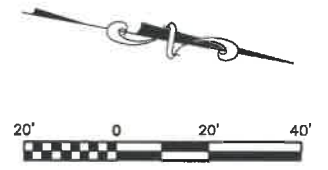
PROFILE LEGEND

- EXISTING GROUND
- PROPOSED GRADE

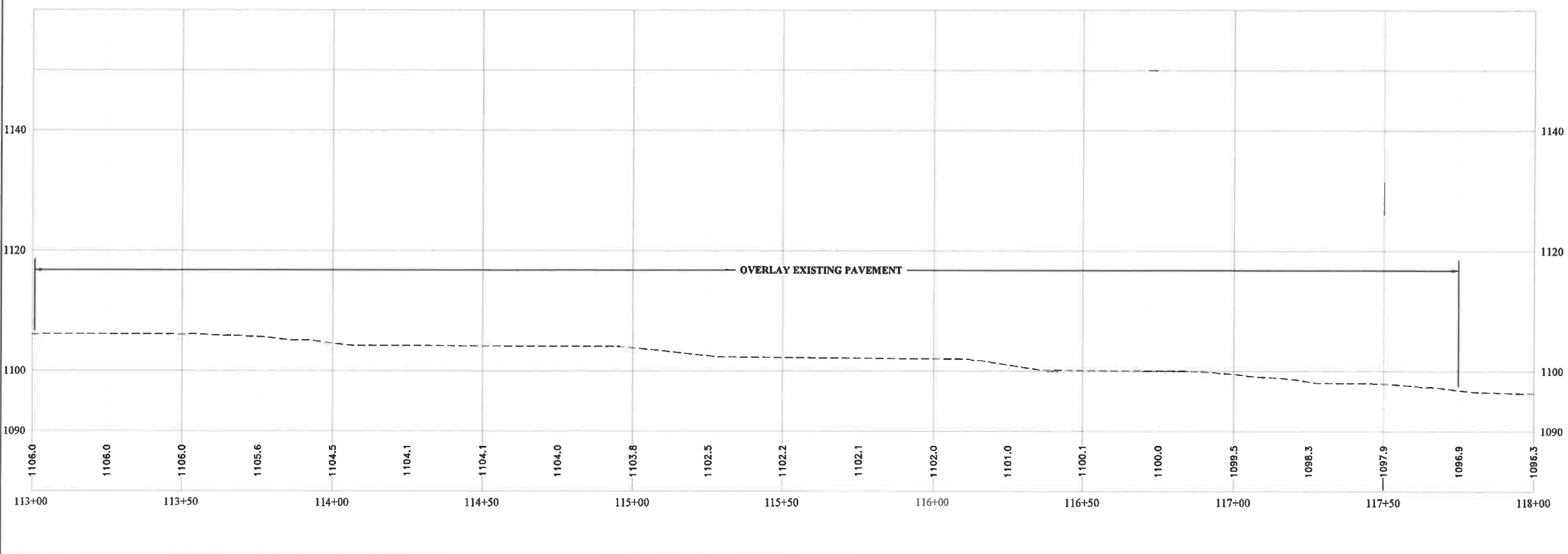




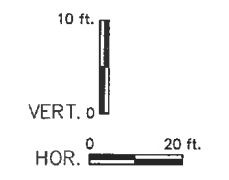
- ### PLAN LEGEND
- PROPERTY LINE
 - PROPOSED CONTOURS MAJOR / MINOR
 - EXISTING CONTOURS MAJOR / MINOR
 - EXISTING CURB INLET & PIPE
 - EXISTING DITCH
 - EXISTING CORE DRAIN
 - EXISTING GASLINE
 - PROPOSED CUT
 - PROPOSED FILL
 - PROPOSED DITCH
 - PROPOSED PRIORITY 1 SILT FENCE
 - PROPOSED STORM MANHOLE & PIPE
 - PROPOSED LIMITS OF DISTURBANCE
 - PROPOSED ROCK CORE DRAIN
 - PROPOSED TOE KEY BENCH
 - PROPOSED SUMP
 - PROPOSED ENERGY DISSIPATER
 - PROPOSED GRAVEL SHOULDER
 - PROPOSED OVERLAY
 - PROPOSED FULL DEPTH PAVEMENT



WILDLIFE LANE PROFILE



- ### PROFILE LEGEND
- EXISTING GROUND
 - PROPOSED GRADE



LAYOUT TAB: 33 WILDLIFE LANE PLAN & PROFILE
 CAD FILE: R:\0320\030-10341-00-White Oaks Phase II 2021-High Tech Corridor Development, LLC-Drawing\0341-WILDLIFE LANE-PP.dwg
 PLOT DATE/TIME: 10/26/2022 1:26 PM

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NO.	BY	DATE	DESCRIPTION
2	DJW	10/24/22	Rock Toe Key Revised To Toe Key Bench
2	DJW	10/24/22	Revised Silt Fence To Priority 1



SCALE: AS SHOWN

DRAWN:	DATE:
CHECKED:	DATE:
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

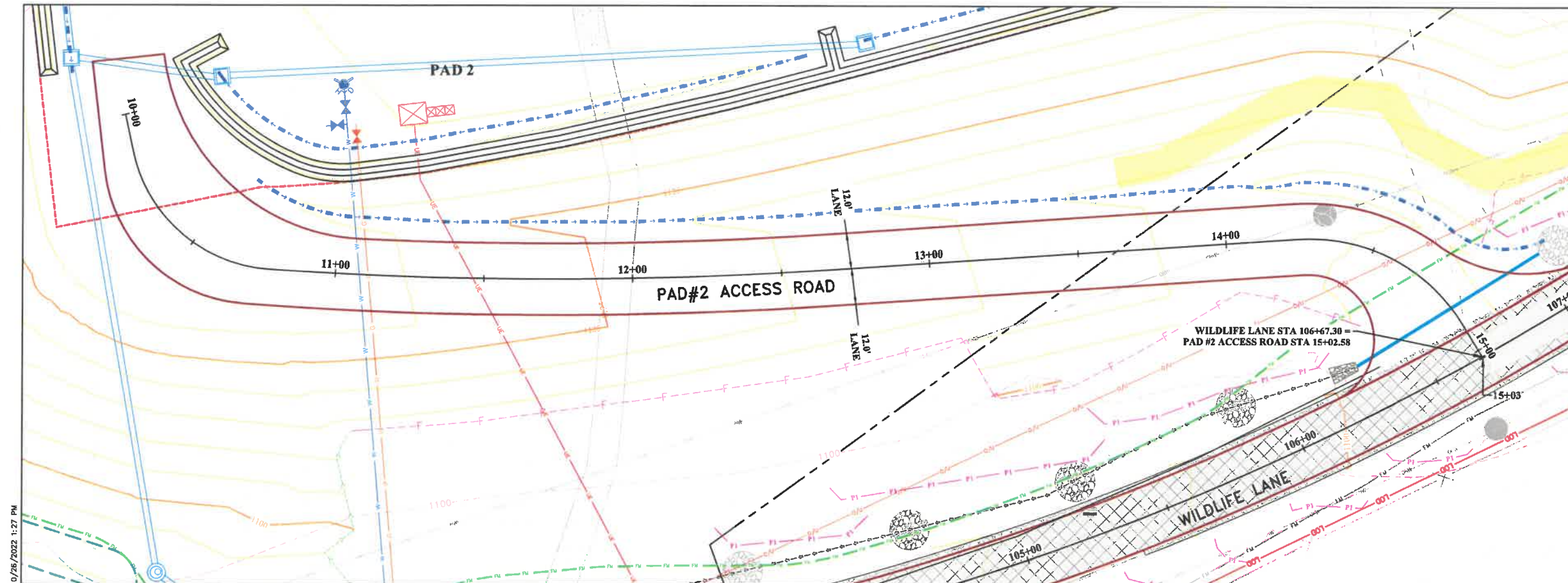
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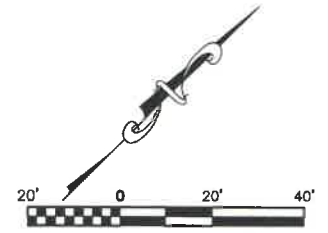
PHASE No.	
CONTRACT No.	
PROJECT No.	T30-11114

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 WILDLIFE LANE PLAN & PROFILE

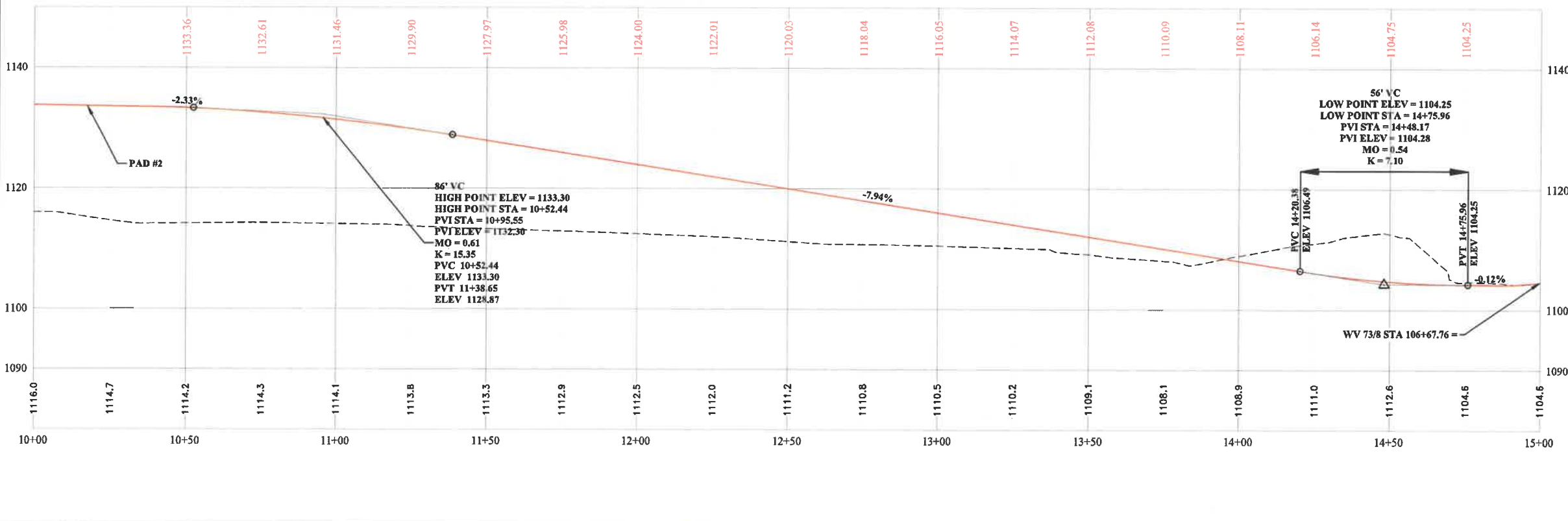
SHEET No. **33**



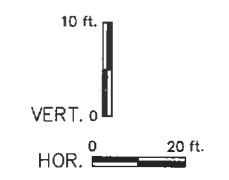
- ### PLAN LEGEND
- PROPERTY LINE
 - PROPOSED CONTOURS MAJOR / MINOR
 - EXISTING CONTOURS MAJOR / MINOR
 - EXISTING CURB INLET & PIPE
 - EXISTING DITCH
 - EXISTING CORE DRAIN
 - EXISTING GASLINE
 - PROPOSED CUT
 - PROPOSED FILL
 - PROPOSED DITCH
 - PROPOSED PRIORITY 1 SILT FENCE
 - PROPOSED STORM MANHOLE & PIPE
 - PROPOSED LIMITS OF DISTURBANCE
 - PROPOSED ROCK CORE DRAIN
 - PROPOSED TOE KEY BENCH
 - PROPOSED SUMP
 - PROPOSED ENERGY DISSIPATER
 - PROPOSED GRAVEL SHOULDER
 - PROPOSED OVERLAY
 - PROPOSED FULL DEPTH PAVEMENT



PAD #2 ENTRANCE PROFILE



- ### PROFILE LEGEND
- EXISTING GROUND
 - PROPOSED GRADE



LAYOUT FILE: 42 PAD #2 ACCESS ROAD PLAN & PROFILE
 CAD FILE: R:\03\03\03-10341-00-White Oaks Phase II 2021-High Tech Corridor Development, LLC-Drawing\10341-WILDLIFE_LANE-PP.dwg
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NO.	BY	DATE	DESCRIPTION
2	DJW	10/24/22	Rock Toe Key Revised To Toe Key Bench
2	DJW	10/24/22	Revised Silt Fence To Priority 1



SCALE: AS SHOWN
 DRAWN: DATE:
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 APPROVED: DATE:
 SURVEY DATE:
 SURVEY BY:
 FIELD BOOK No.:

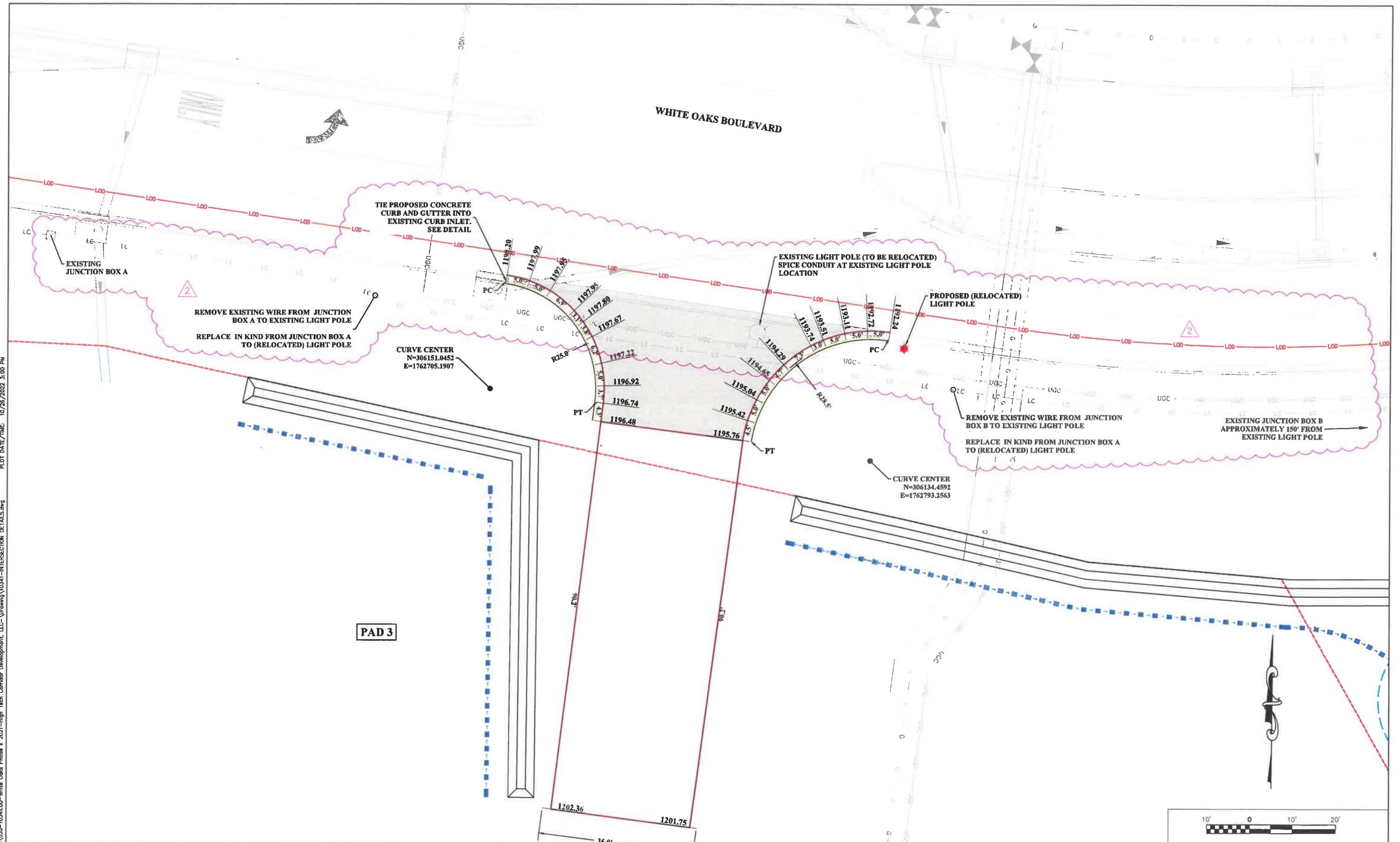


PHASE No.	
CONTRACT No.	
PROJECT No.	T30-11114

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 PAD #2 ACCESS ROAD PLAN & PROFILE

SHEET No.
42

LAYOUT TAB: 45 INTERSECTION DETAILS - PAD #3 ENTRANCE
 CAD FILE: R:\032\032-10341-00-White Oaks Phase II 2021-High Tech Corridor Development, LLC-Drawing\0341-INTERSECTION DETAILS.dwg
 PLOT DATE/TIME: 10/26/2022 3:00 PM



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NO.	BY	DATE	DESCRIPTION
2	DJW	10/24/22	Added Light Pole Relocation Procedures

WHITE OAKS

SCALE: AS SHOWN

DRAWN: DATE: _____
 CHECKED: DATE: _____
 APPROVED: DATE: _____
 SURVEY DATE: _____
 SURVEY BY: _____
 FIELD BOOK No.: _____

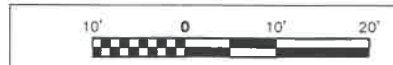
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CONTRACT No.	
PROJECT No.	T30-11114

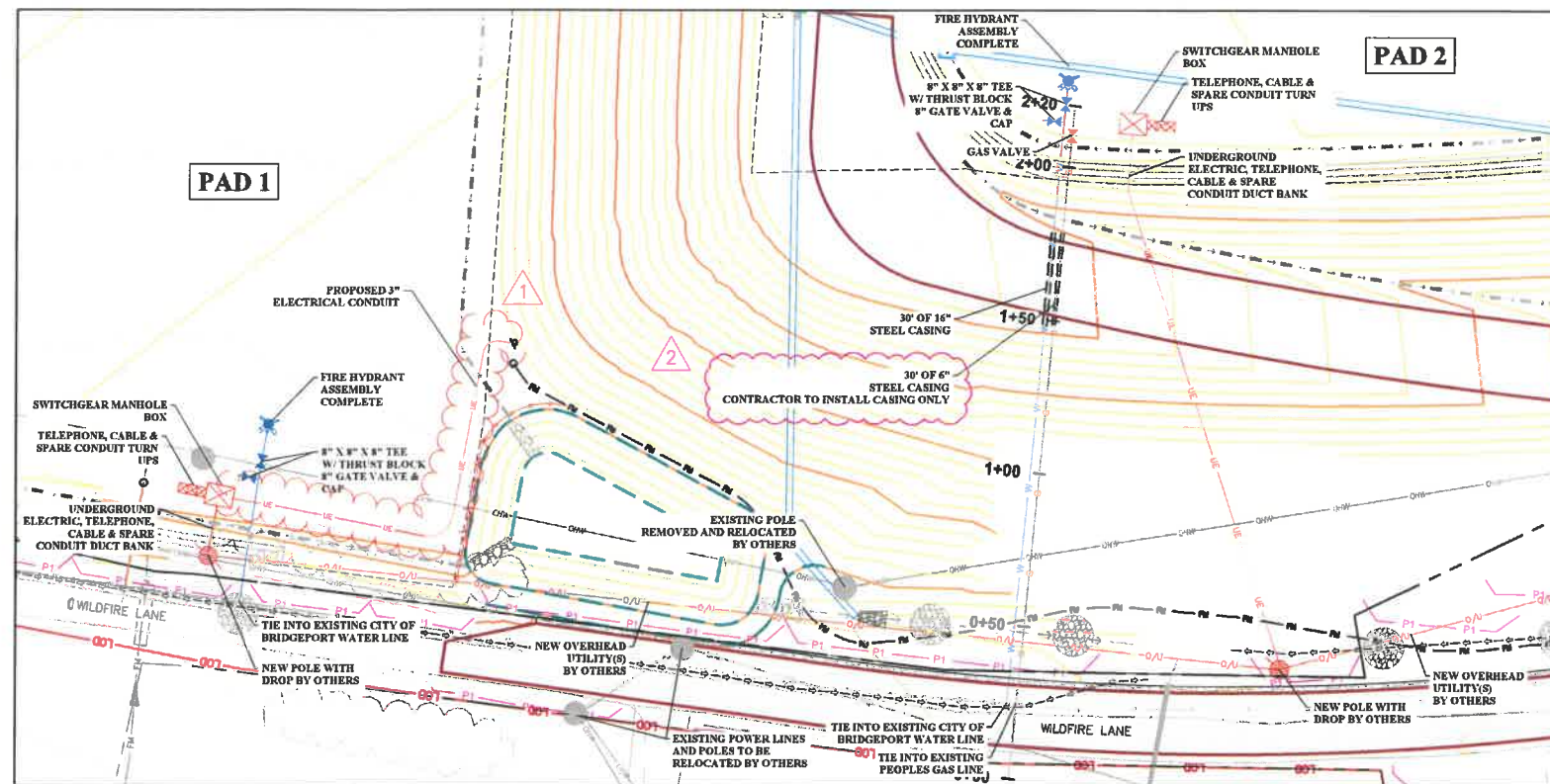
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 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 INTERSECTION DETAILS - PAD #3 ENTRANCE

SHEET No.
45

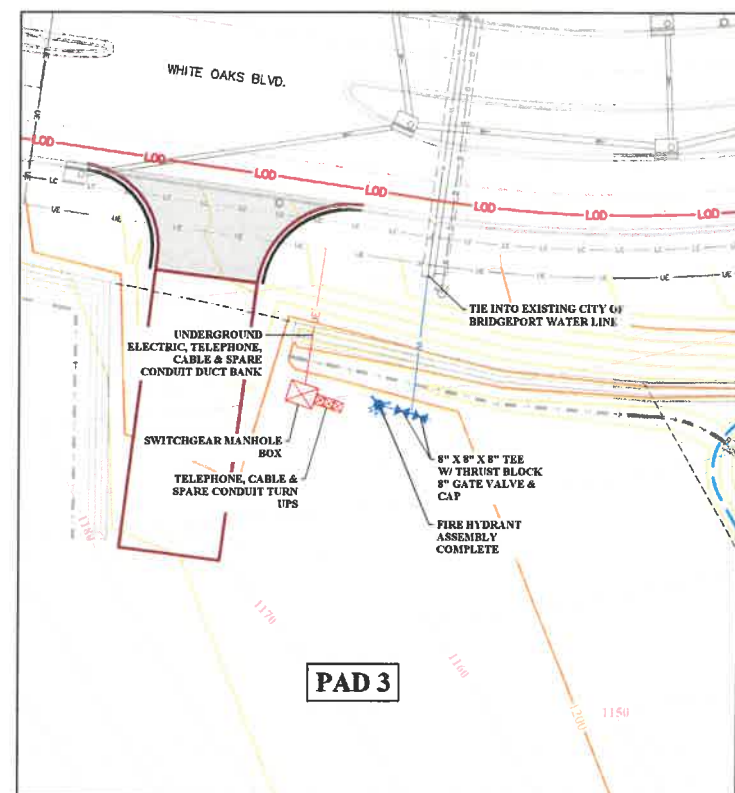


PLAN LEGEND

- L00 **PROPOSED LIMITS OF DISTURBANCE**
- CONSERVATION EASEMENT**
- PROPERTY LINE**
- 1240 **PROPOSED CONTOURS MAJOR / MINOR**
- 1240 **EXISTING CONTOURS MAJOR / MINOR**
- EXISTING DITCH**
- EXISTING OVERHEAD UTILITY LINE**
- EXISTING GAS LINE**
- EXISTING WATERLINE**
- EXISTING SANITARY SEWER**
- EXISTING FORCE MAIN**
- EXISTING UNDERGROUND ELECTRIC**
- EXISTING GASLINE**
- EXISTING UTILITY POLE**
- EXISTING OVERHEAD UTILITY LINE**
- PROPOSED SILT FENCE (PRIORITY 1)**
- **PROPOSED UTILITY POLE**
- **PROPOSED OVERHEAD UTILITY LINE**
- **PROPOSED GAS LINE**
- **PROPOSED WATERLINE**
- **PROPOSED SANITARY SEWER**
- **PROPOSED FORCE MAIN**
- **PROPOSED UNDERGROUND ELECTRIC**
- **PROPOSED LIGHTING CONDUIT**



PAD 1 AND 2
SCALE: 1"=30'



PAD 3
SCALE: 1"=30'



LAYOUT TAB: 47 UTILITY PLAN
CAD FILE: R:\030\030-10341-00-White Oaks Phase II 2021-High Tech Corridor Development, LLC-Drawing\0341-UTILITY PLAN.dwg
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NO.	BY	DATE	DESCRIPTION
2	DJW	10/24/22	Revised Gas Line Conduit Note
1	JCF	10/18/22	Electric conduit added



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DRAWN:	DATE:
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APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

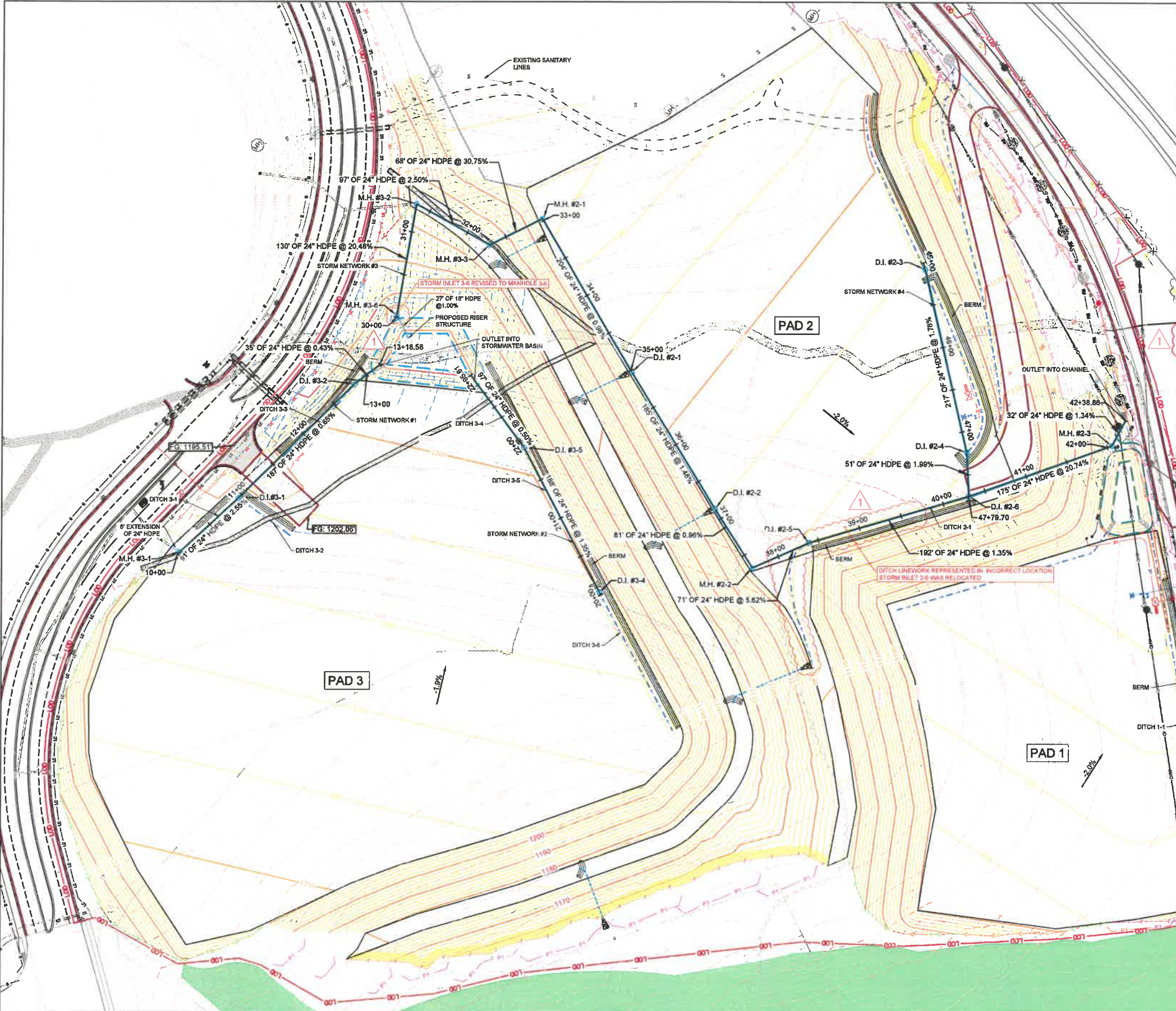
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CONTRACT No.	
PROJECT No.	T30-11114

**ISSUED FOR BID PLANS FOR
WHITE OAKS BUSINESS PARK
PHASE II A
BRIDGEPORT, WEST VIRGINIA
UTILITY PLAN**

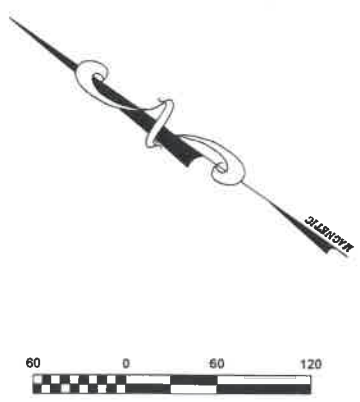
SHEET No.
47

LAYOUT TAB: 50 STORMWATER PLAN
 CAD FILE: R:\030\030-10341-00-White Oaks Phase II 2021-High Tech Corridor Development, LLC-Drawing\10341-STORMWATER.dwg
 PLOT DATE/TIME: 10/26/2022 2:10 PM



Structure Table	
Structure Name	Structure Details
D.I. #2-1 TYPE G INLET	RIM = 1141.48' 24" INV IN = 1134.96' 24" INV OUT = 1134.96'
D.I. #2-2 TYPE G INLET	RIM = 1138.01' 24" INV IN = 1132.13' 24" INV OUT = 1132.03'
D.I. #2-3 TYPE G INLET	RIM = 1135.88' 24" INV OUT = 1128.35'
D.I. #2-4 TYPE G INLET	RIM = 1132.58' 24" INV IN = 1124.49' 24" INV OUT = 1124.38'
D.I. #2-5 TYPE G INLET	RIM = 1133.67' 24" INV IN = 1127.13' 24" INV OUT = 1127.04'
D.I. #2-6 TYPE G INLET	RIM = 1131.86' 24" INV IN = 1124.44' 24" INV IN = 1123.38' 24" INV OUT = 1123.28'
D.I. #3-2 TYPE G INLET	RIM = 1198.79' 24" INV IN = 1193.15' 24" INV OUT = 1193.05'
D.I. #3-4 TYPE G INLET	RIM = 1200.22' 24" INV OUT = 1198.77'
D.I. #3-5 TYPE G INLET	RIM = 1198.14' 24" INV IN = 1194.23' 24" INV OUT = 1194.13'
D.I. #3-1 TYPE G INLET	RIM = 1202.04' 24" INV IN = 1194.46' 24" INV OUT = 1194.37'
M.H. #2-1 48" DIAMETER MANHOLE	RIM = 1143.35' 24" INV IN = 1137.07' 24" INV OUT = 1136.97'
M.H. #2-2 48" DIAMETER MANHOLE	RIM = 1136.47' 24" INV IN = 1131.25' 24" INV OUT = 1131.15'
M.H. #2-3 48" DIAMETER MANHOLE	RIM = 1090.29' 24" INV IN = 1087.00' 24" INV OUT = 1086.54'
M.H. #3-1 48" DIAMETER MANHOLE	RIM = 1203.55' 24" INV OUT = 1198.80'
M.H. #3-2 48" DIAMETER MANHOLE	RIM = 1165.17' 24" INV IN = 1161.00' 24" INV OUT = 1160.89'
M.H. #3-3 48" DIAMETER MANHOLE	RIM = 1166.53' 24" INV IN = 1158.47' 24" INV OUT = 1158.00'
M.H. #3-6 48" DIAMETER MANHOLE	RIM = 1187.12' 24" INV OUT = 1187.53'

PLAN LEGEND	
	PROPERTY LINE
	PROPOSED CONTOURS MAJOR / MINOR
	EXISTING CONTOURS MAJOR / MINOR
	EXISTING CURB INLET & PIPE
	EXISTING DITCH
	EXISTING CORE DRAIN
	EXISTING GASLINE
	PROPOSED CUT
	PROPOSED FILL
	PROPOSED DITCH
	PROPOSED SILT FENCE (PRIORITY 1)
	PROPOSED STORM MANHOLE & PIPE
	PROPOSED TYPE G INLET
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED ROCK CORE DRAIN
	PROPOSED TOE KEY BENCH
	CONSERVATION EASEMENT



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NO.	BY	DATE	DESCRIPTION
2	JCP	10/26/22	LEGEND LABEL
1	DJW	10/20/22	DITCH LINEWORK REPRESENTED IN INCORRECT LOCATION
1	DJW	10/20/22	STORM INLET 2-5 WAS RELOCATED
1	DJW	10/20/22	STORM INLET 3-6 REVISED TO MANHOLE 3-6



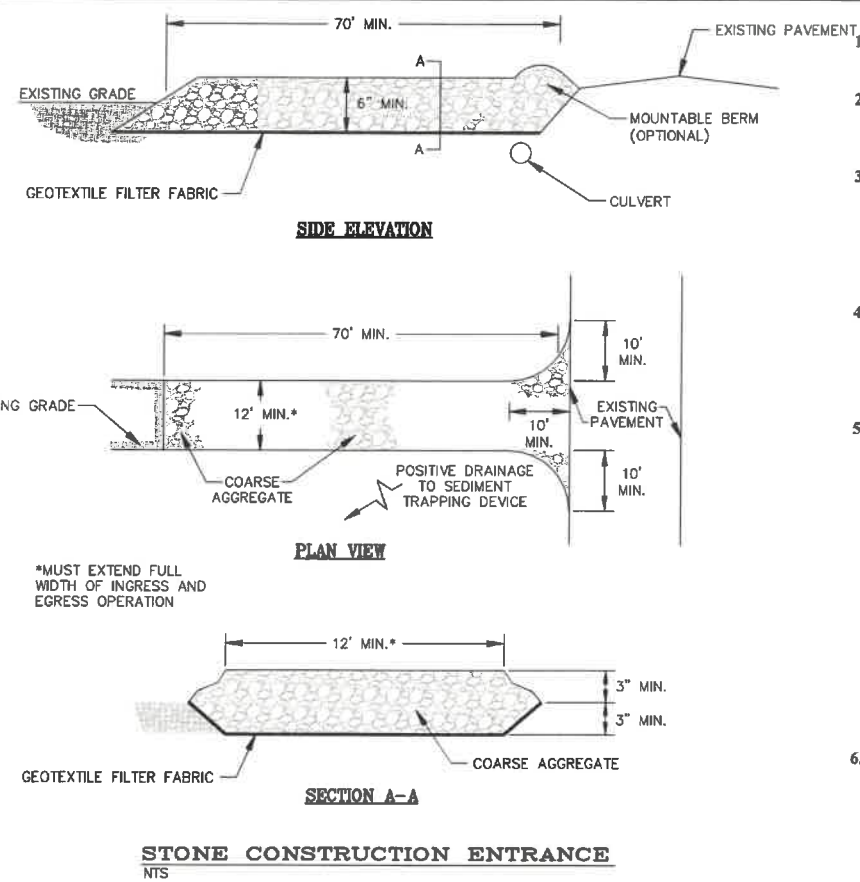
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 SURVEY DATE:
 SURVEY BY:
 FIELD BOOK No.:



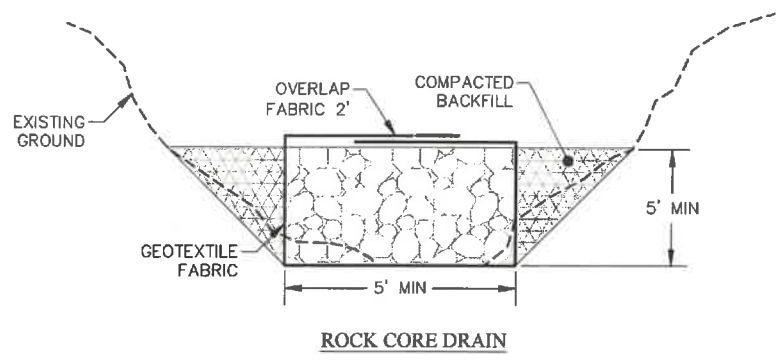
PHASE No.	
CONTRACT No.	
PROJECT No.	T30-11114

ISSUED FOR BID PLANS FOR
 WHITE OAKS BUSINESS PARK
 PHASE II A
 BRIDGEPORT, WEST VIRGINIA
 STORMWATER PLAN

SHEET No.
51



1. LENGTH - 70' MINIMUM (30' MINIMUM FOR SINGLE RESIDENCE LOT).
2. WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
4. STONE - CRUSHER AGGREGATE (2" - 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE MUST BE SIZED ACCORDING TO THE DRAINAGE AND THE AMOUNT OF RUN OFF TO BE CONVEYED. A 6" DIAMETER MINIMUM WILL BE REQUIRED. WHEN THE STABILIZED CONSTRUCTION ENTRANCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY.
6. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.



ROCK CORE DRAIN

* ALL ROCK PLACED IN CORE DRAIN MUST BE DURABLE ROCK AND NOT BE PRONE TO DEGRADE OR BREAK DOWN IN WATER. THIS MATERIAL SHALL MEET WVDOH SPECIFICATION 704.5 - SPECIAL ROCK FILL.

GEOTEXTILE FABRIC SHALL MEET WVDOH SPECIFICATION 715.11.4 - ENGINEERING FABRIC FOR SUBSURFACE DRAINAGE.

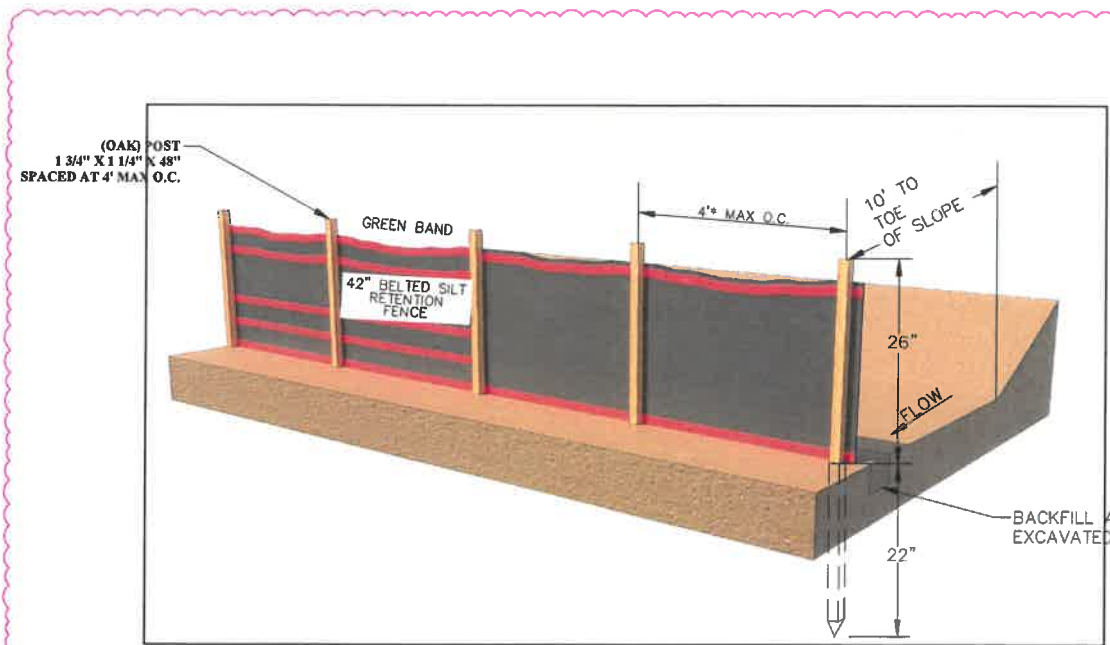
MATERIAL SIZE RANGING FROM 6" TO 24"

For Info on NPDES Storm Water Permit #WVR110247
 To comment on Sediment Control Plan:
Call: 800-654-5227
 or
plan@wvdep.org
 DEP 601 57th Street, SE, Charleston WV 25304
 Application date: 10/19/17

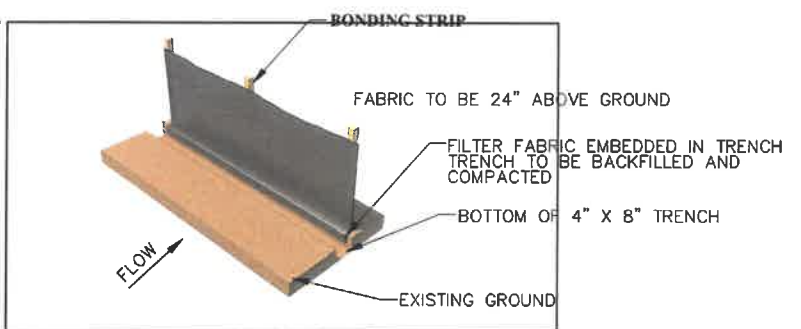
HIGH TECH CORRIDOR DEVELOPMENT LLC
WHITE OAKS PHASE IIA
 1-304-624-4108

- NOTES:**
1. SIGN SHALL BE INSTALLED AT THE ENTRANCE TO THE SITE.
 2. SIGN SHALL BE 24-IN x 24-IN MINIMUM.
 3. SIGN LETTERING SHALL BE 1.6-IN AND 0.8-IN.
 4. HIGH CONTRAST COLORS SHALL BE USED.
 5. WHITE BACKGROUND WITH BLACK BLOCK LETTERS.
 6. SIGN SHALL BE INSTALLED 36-IN FROM GROUND.

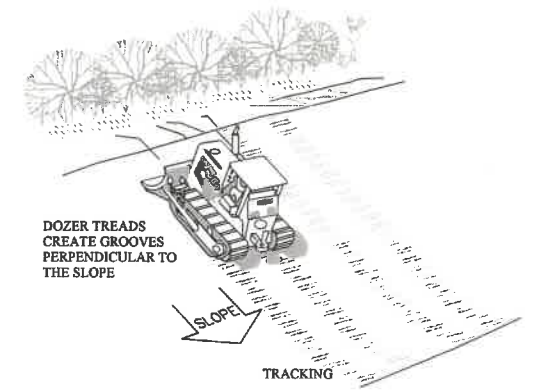
PUBLIC NOTICE SIGN
 NOT TO SCALE



- PRIORITY 1 NOTES**
1. 4' MAX. O.C. CENTER
 2. GREEN BAND



BELTED SILT RETENTION FENCE
PRIORITY 1 DETAIL
 NOT TO SCALE



TRACKING A CONSTRUCTED SLOPE
 NOT TO SCALE

LAYOUT TAB: S6 DETAILS
 CAD FILE: R:\000\030-10341-00-White Oaks Phase II 2021-High Tech Corridor Development, LLC-Drawing\0341-DETAILS.dwg
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NO.	BY	DATE	DESCRIPTION
2	D.J.W.	10/24/22	Revised Silt Fence To Priority 1



SCALE: AS SHOWN

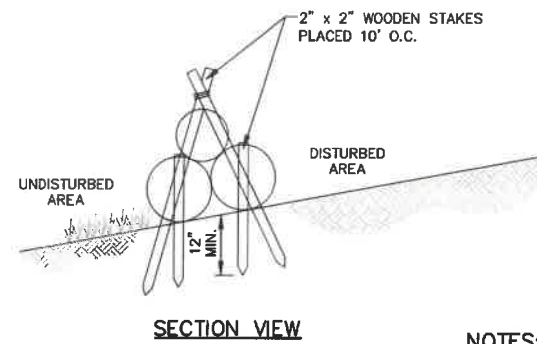
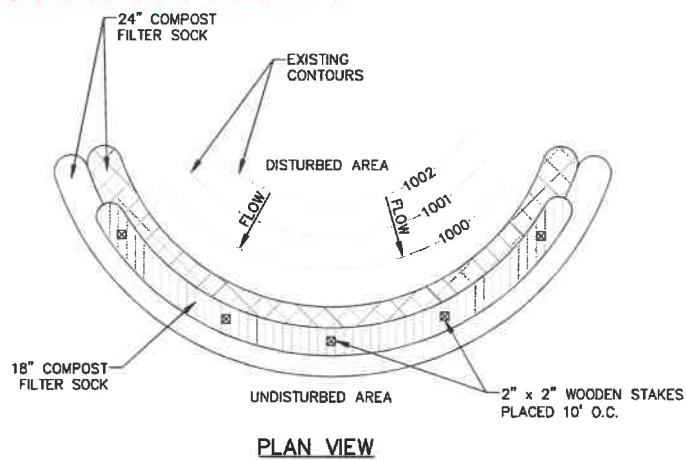
DRAWN:	DATE:
CHECKED:	DATE:
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	



PHASE No.	
CONTRACT No.	
PROJECT No.	
T30-11114	

ISSUED FOR BID PLANS FOR
WHITE OAKS BUSINESS PARK
PHASE II A
BRIDGEPORT, WEST VIRGINIA
DETAILS

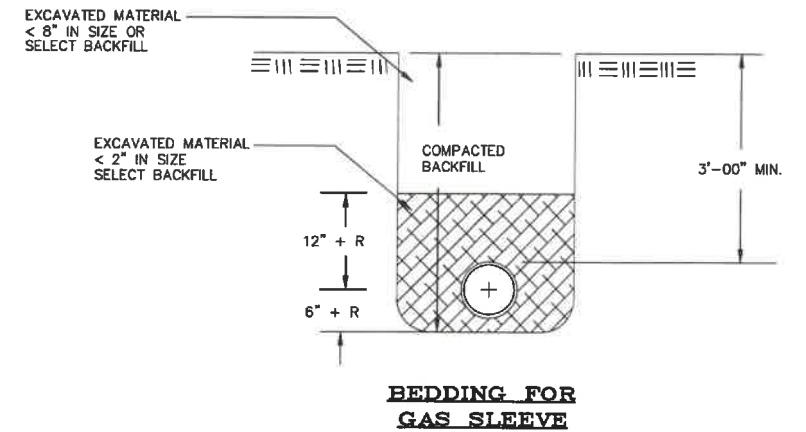
SHEET No.
56



COMPOST FILTER SOCK SEDIMENT TRAP
NOT TO SCALE

NOTES:

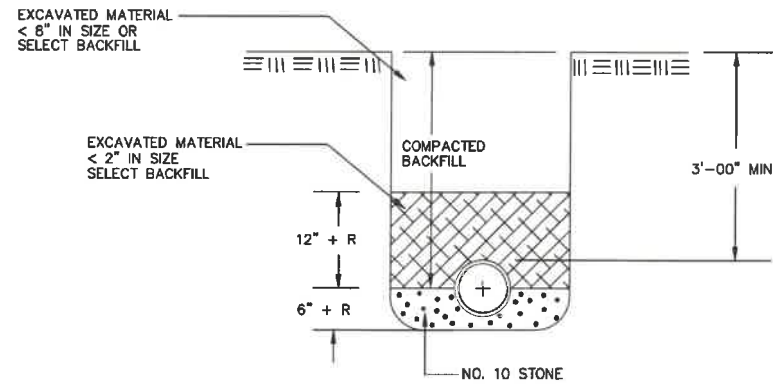
1. COMPOST FILTER SOCK SEDIMENT TRAPS SHALL BE SIZED TO PROVIDE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE TRIBUTARY TO THE TRAP.
2. MINIMUM BASE WIDTH IS EQUAL TO THE HEIGHT.
3. ENDS OF THE TRAP SHALL BE A MINIMUM OF 1 FOOT HIGHER IN ELEVATION THAN THE MID SECTIONS, WHICH SHALL BE LOCATED AT THE POINT OF DISCHARGE.
4. MINIMUM TRAP HEIGHT IS ONE 24" DIAMETER SOCK. ADDITIONAL STORAGE MAY BE PROVIDED BY MEANS OF AN EXCAVATED SUMP 12" DEEP EXTENDING 1 TO 3 FEET UPSLOPE OF THE SOCKS ALONG THE LOWER SIDE OF THE TRAP.
5. THE MAXIMUM TRIBUTARY DRAINAGE AREA IS 5.0 ACRES, SINCE COMPOST SOCKS ARE "FLOW-THROUGH," NO SPILLWAY IS REQUIRED.
6. COMPOST FILTER SOCK SEDIMENT TRAPS SHALL BE INSPECTED A MINIMUM OF ONCE EVERY 7 CALENDAR DAYS AND AFTER EACH RUNOFF EVENT. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE HEIGHT OF THE SOCKS.
7. PHOTODEGRADABLE AND BIODEGRADABLE SOCKS SHALL NOT BE USED FOR MORE THAN ONE YEAR.
8. FILTER SOCK ENDS SHALL BE JOINED AS PER THE MANUFACTURERS RECOMMENDATIONS.



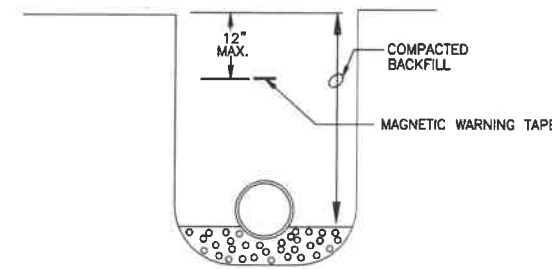
BEDDING FOR GAS SLEEVE

RED	ELECTRIC
YELLOW	GAS - OIL
ORANGE	TELEPHONE
BLUE	WATER
GREEN	SEWER

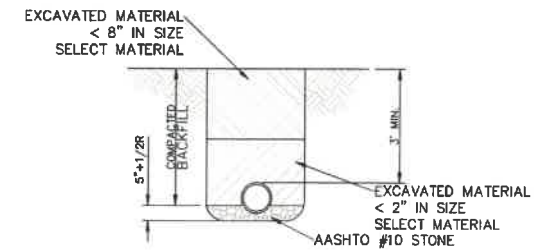
COLOR CODES FOR UTILITY LOCATING MAGNETIC WARNING TAPE



BEDDING FOR SEWER SLEEVE

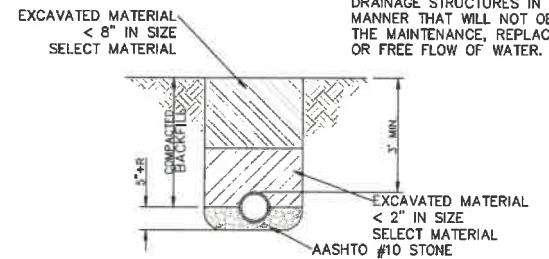


UTILITY MAGNETIC WARNING TAPE



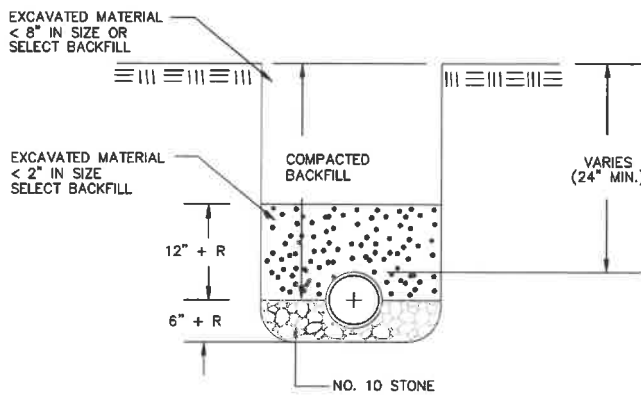
BEDDING FOR RIGID PIPE

NOTE: ALL LINES AND/OR CASINGS SHALL BE INSTALLED UNDER OR AROUND DRAINAGE STRUCTURES IN A MANNER THAT WILL NOT OBSTRUCT THE MAINTENANCE, REPLACEMENT, OR FREE FLOW OF WATER.

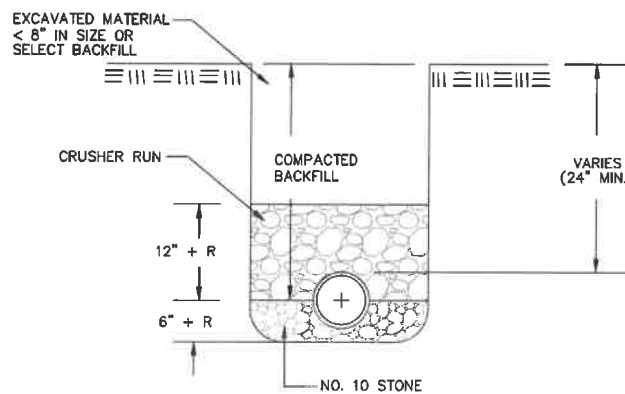


BEDDING FOR NON-RIGID PIPE

TYPICAL WATER PIPE CROSS SECTION OF TRENCHES
NOT TO SCALE



BEDDING FOR TYPICAL STORM SEWER PIPE



BEDDING FOR 10FT DEEP STORM SEWER PIPE

LAYOUT TAB: 61 DETAILS
CAD FILE: R:\030\030-10341.00-White Oaks Phase II 2021-High Tech Corridor Development, LLC-V\Drawings\10341-DETAILS.dwg
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2	JCP	10/26/22	Added detail
1	JCP	10/20/22	Moved details



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SURVEY DATE:
SURVEY BY:
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PHASE No.
CONTRACT No.
PROJECT No.
T30-11114

ISSUED FOR BID PLANS FOR
WHITE OAKS BUSINESS PARK
PHASE II A
BRIDGEPORT, WEST VIRGINIA
DETAILS

SHEET No.

61