

Department of Engineering  
Tim Bryan, P.E., County Engineer

3137 South Liberty Street, Canton, MS 39046  
Office (601) 790-2525 FAX (601) 859-3430

**MEMORANDUM**

April 24, 2023

To: Sheila Jones, Supervisor, District I  
Trey Baxter, Supervisor, District II  
Gerald Steen, Supervisor, District III  
Karl Banks, Supervisor, District IV  
Paul Griffin, Supervisor, District V

From: Tim Bryan, P.E., PTOE  
County Engineer

Re: Telepak Networks, Inc./Cspire Utility Permit  
County Road Name, Catlett Road

The Engineering Department recommends approval of the permit application for Telepak Networks, Inc./Cspire to install directional bore at a minimum of 48" in depth as drawings reflect.

Revised: 2/14/2019



## PERMIT APPLICATION FOR THE CONSTRUCTION OR ADJUSTMENT OF A UTILITY WITHIN COUNTY ROAD RIGHT-OF-WAY

**Utility Information:** Utility Name: Telepak Networks, Inc dba C Spire Fiber  
Address: 1018 Highland Colony Parkway Suite 400 City/State/Zip: Ridgeland, MS 39157  
Contact Person: Jon Huddleston Contact's Phone: 769-798-7284, jhuddleston@cspire.com

**Project Information:** County Road Name: Catlett Rd  
*(If located within more than one road right-of-way, use Appendix 1 for additional descriptions)*

Beginning Location: HH at Intersection of Luebirdia Ln Ending Location: Cell site NE of Wares Ln  
Length of Project: 5100' in county ROW Section: 18 Township: T-8-N Range: R-2-E  
Description of Work: directional bore at a minimum of 48" in depth as drawings reflect  
See Attached Construction Drawings

Check Box if Appendix 1 is to be included as a part of this Application

Whereas the above stated Utility makes application to the **Madison County Board of Supervisors** for a Construction Permit. Attached hereto are drawings and plans for the construction of the above facilities located within Madison County owned public rights-of-way. Once stamped by the Madison County Engineering Department, these plans shall not be changed or altered without written approval of the County Engineer, or his representative. A copy of the approved permit and plans shall be on-site at all times during construction.

The Applicant Utility shall comply with all policies, procedures and construction practices as outlined in *A Policy for The Accommodation of Utility Facilities within the Right-of-Way of all Public County Roads* (hereinafter referred to as the "Policy"), as adopted on November 1, 2005, by the **Madison County Board of Supervisors**, and which is hereby made a part of this Application Agreement.

If facilities are to be located within the Rights-of-Way of the County-Federal or State Aid System, Applicant Utility also agrees to comply with applicable provisions of *S.O.P. No. SA II-2-8, Accommodation of Utilities on Rights-of-Way*, issued by the State Aid Engineer and dated July 1, 2005.

The Applicant Utility understands and agrees that, except as herein granted, no right, title, claim, or easement to said road right-of-way is granted by the issuance of this permit. If this Utility is listed in the general provisions of the Policy, it will be adjusted to comply with same without cost to the County, unless the variance from the Policy has been approved by the granting of the Permit pursuant to this Application.

The Applicant Utility further understands that the Utility's engineering, plant, or other personnel will be responsible for the staking and construction supervision of the work set out above and as shown on the attached plans. If work impacts traffic in any way, the appropriate traffic control shall be installed per the *Manual of Uniform Traffic Control Devices*, Latest Edition.

The Applicant Utility understands that the County Engineer, or his representative, may issue a Stop Work Order at any time if it is deemed that site conditions are not suitable for construction or if any of the requirements of this permit are not being met.

Many County Roads have variable Rights-of-Way and/or no Right-of-Way at all and are maintained under a Prescriptive Easement. **It is the sole responsibility of the Applicant Utility to verify the existence and limits of public rights-of-way.** If none exists, it is the

responsibility of the Applicant Utility to acquire an easement for their Facilities from the applicable property owner(s). Madison County in no way verifies the limits of Right-of-Way as shown on the permit application.

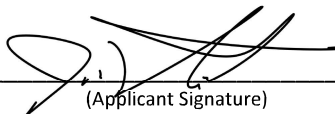
The Applicant Utility shall be responsible for all future maintenance and repair of the facilities installed under this permit. The Applicant Utility shall make future adjustments to, or relocate, the facilities located within road or highway right-of-way when required for road or highway widening or other road or highway construction at no cost to Madison County. The Applicant Utility shall relocate said utilities within sixty (60) days of notification by County by registered mail, return receipt requested, unless otherwise designated by the County Engineer. Further, any maintenance, repair, or construction shall be done in such a manner as to occasion no unreasonable interference with the normal flow and safety to traffic and at the expense of the utility company. When reasonable care has been taken to locate said utility facilities within the right-of-way, the Applicant Utility understands that any damages caused by routine maintenance and construction by County forces shall be borne by the Applicant Utility.

The Applicant Utility further agrees to indemnify and hold Madison County harmless for any and all claims, accidents, damages, liabilities and expenses occasioned wholly, or in part, by any act or omission of applicant, its agents or employees. In case County shall, without fault on its own part, be made a party to any litigation commenced by or against applicant, then applicant shall protect and hold County harmless, and shall pay all costs, expenses and reasonable attorney's fees incurred or paid by County in connection with said litigation.

All underground facilities shall be installed at a depth equal to or greater than 48" below the lowest adjacent grade.

All pipes carrying liquid shall be encased under County maintained roads.

WITNESS the signature of the Applicant this the 21st day of April, 2023.

By:  (Applicant Signature)

Title: OSP Permit Specialist

**Note:** Applicant must be an employee of the Utility named in this application. The Madison County Board of Supervisors will not recognize a Contractor, Subcontractor, Agent, or Consulting Engineer as the Applicant. Utility Company shall be fully responsible for all work performed under this application.

I, or my authorized representative, have reviewed this application and determined that the drawing, sketches, and plans submitted by the Applicant meet the requirements of A Policy for The Accommodation of Utility Facilities within the Right-of-Way of all Public County Roads.

**APPROVED**  
By **By timothy.bryan at 8:57 am, Apr 26, 2023**  
Tim Bryan, P.E.  
County Engineer

AGREED TO AND APPROVED BY:

\_\_\_\_\_  
Madison County Board President

Date: \_\_\_\_\_

ENTERED INTO THE MINUTES OF THE BOARD OF SUPERVISORS OF MADISON COUNTY, MISSISSIPPI ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

**Appendix 1**

County Road Name: \_\_\_\_\_  
Beginning Location: \_\_\_\_\_ Ending Location: \_\_\_\_\_  
Length of Project: \_\_\_\_\_ Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_  
Description of Work: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

County Road Name: \_\_\_\_\_  
Beginning Location: \_\_\_\_\_ Ending Location: \_\_\_\_\_  
Length of Project: \_\_\_\_\_ Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_  
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Description of Work: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

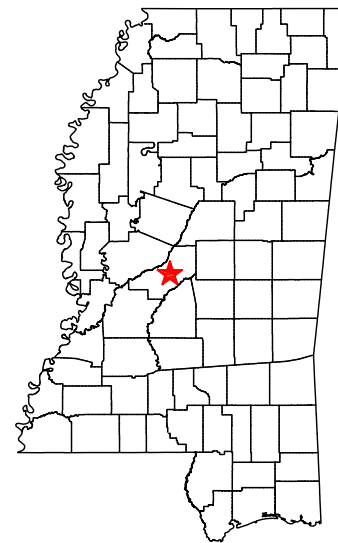
County Road Name: \_\_\_\_\_  
Beginning Location: \_\_\_\_\_ Ending Location: \_\_\_\_\_  
Length of Project: \_\_\_\_\_ Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_  
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\_\_\_\_\_  
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Beginning Location: \_\_\_\_\_ Ending Location: \_\_\_\_\_  
Length of Project: \_\_\_\_\_ Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_  
Description of Work: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



ASBUILT INFORMATION

FIELD ENGINEER: NAME:  
PROJECT MANAGER: NAME:  
CONSTRUCTION: NAME:  
SUB CONTRACTOR: NAME:  
INSPECTOR: NAME:  
PHONE#:  
CONSTRUCTION COMMENCED: DATE:  
CONSTRUCTION COMPLETED: DATE:  
FIBER INSTALLED: DATE:  
FINAL CLEANUP: DATE:



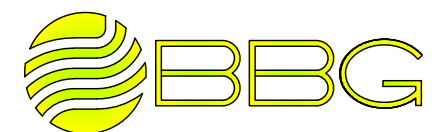
<<	PERMITS	>>
COUNTY:	MADISON, MS	

**SUBPROJECT #**  
68480-001

OSP.CELL.68480  
CS.OSFPMS-MADCTY.MS

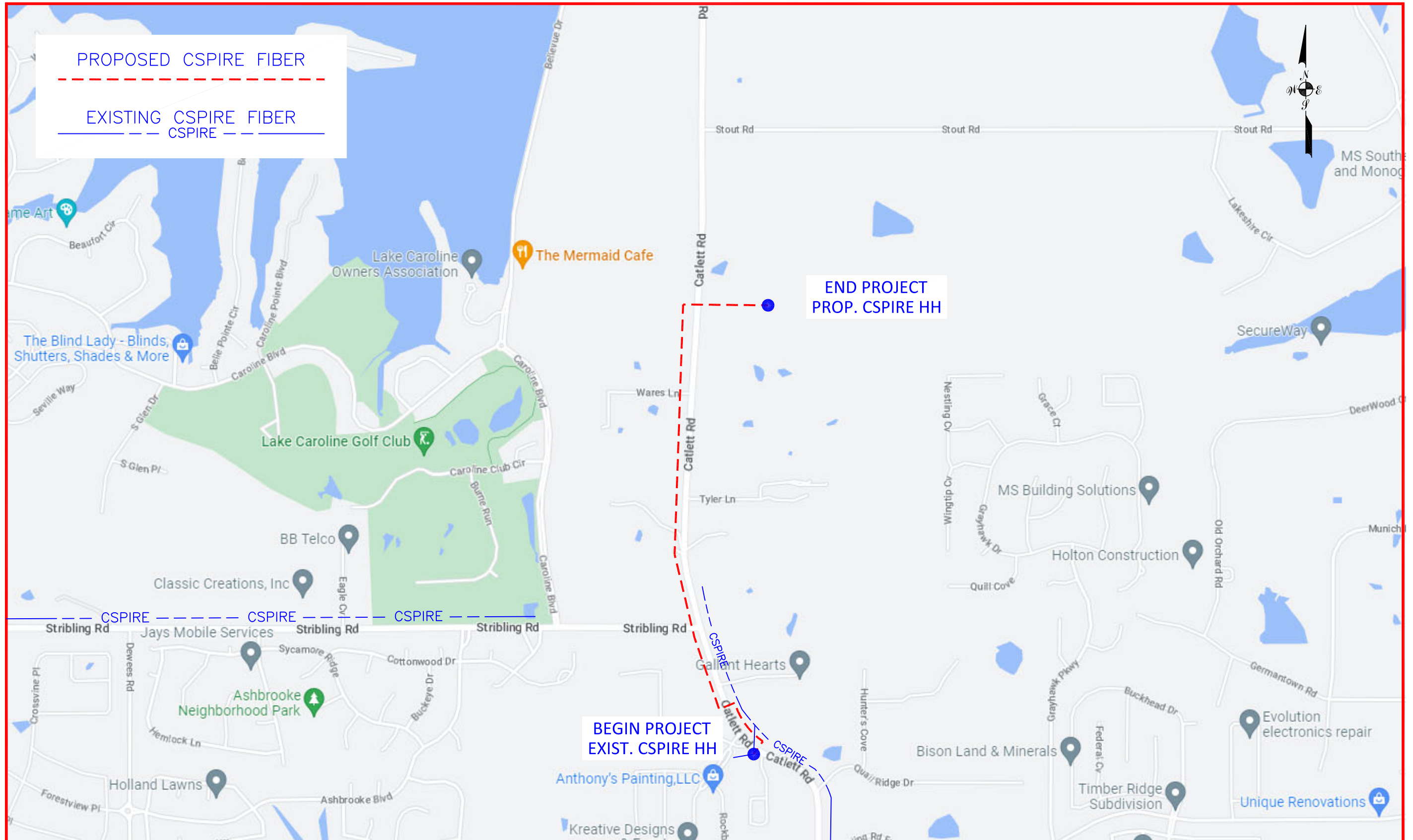
**PROPOSED FIBER BUILD**  
**MS2645 GREYHAWK (MADISON)**  
4/19/23

PREPARED BY



43 Town Center Square, Suite 204  
Hattiesburg, MS 39402  
Office phone: (601) 402-9149  
Email: [designservices@bbgeomatics.com](mailto:designservices@bbgeomatics.com)

# ROUTE MAP



MS2645 GREYHAWK (MADISON)



**CONSTRUCTION NOTES:**

- ALL CONDUIT WILL BE 4" ID SCHEDULE 40 (ie. PVC OR BSP/GSP, MANUFACTURED SPLIT PVC OR SPLIT BSP/GSP), UNLESS SPECIFIED OTHERWISE.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. CALL ONE CALL SYSTEM @ 1-800-227-6477.
- ALL UNDERGROUND OBSTRUCTIONS, WHEN LOCATED, WILL REQUIRE THE PLACEMENT OF A BURIED CABLE MARKER AND THE PLACEMENT OF 4" MANUFACTURED SPLIT PVC, BSP/GSP OVER OR UNDER EACH OBSTRUCTION.
- SHORING MAY BE REQUIRED AND SHALL COMPLY TO O.S.H.A. STANDARDS.
- ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 60" MINIMUM COVER CROSSING ALL STATE AND OR COUNTY ROADS AND ALL CREEK BEDS UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
- MECHANICAL PROTECTION SHALL BE REQUIRED ANYTIME A 36" MINIMUM COVER IS UNOBTAINABLE UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
- ALL 90 DEGREE BENDS IN CONDUIT CONSTRUCTION WILL BE A MINIMUM 38.2" RADIUS UNLESS SPECIFIED OTHERWISE. ALL SPLIT CONDUIT BENDS AND SOLID PVC BENDS SHALL REQUIRE CONCRETE ENCASEMENT, UNLESS SPECIFIED OTHERWISE.
- OPERATIONS PERSONNEL TO BE CONTACTED BY THE CONTRACTOR 48 HOURS PRIOR TO CONSTRUCTION.
- ALL STATIONING IS BASED ON AS-BUILT INFORMATION, THEREFORE SOME VARIANCE SHOULD BE ANTICIPATED. ADJUST AS NEEDED.
- RAILROAD COMMUNICATION AND SIGNAL CABLES TO BE LOCATED PRIOR TO CONSTRUCTION ACTIVITY. RAILROAD TO BE GIVEN 48 HOURS NOTICE PRIOR TO CONSTRUCTION
- ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 24" MINIMUM BELOW THE LOWEST POINT OF EXISTING CITY UTILITY BEING CROSSED.
- ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 48" MINIMUM BELOW ALL CITY & OR SURFACE STREET(S) WHERE NO UTILITY IS CROSSED.
- CONSTRUCTION CONTRACTOR SHALL PLACE MARKER POLES AT ALL H.H. LOCATIONS & AT EVERY MAJOR P.I. CONTRACTOR WILL PLACE MARKER POLES DURING THE CONSTRUCTION PHASE.

**GENERAL NOTES:**

- ALL WORK TO BE DONE WITH EXTREME CAUTION, FIBER OPTIC CABLE CARRYING TRAFFIC AND LOSS OF SERVICE WILL RESULT IN LOSS OF REVENUE.
- ALL WORK TO BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENTAL AGENCY, TELEPAK, OR THE RIGHT-OF-WAY GRANTOR.
- LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD EVALUATION MAPS OR OTHER DRAWINGS, AND MAY BE AS SHOWN OR DEPICTED ON THESE DRAWINGS.
- UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS, BUT ARE NOT NECESSARILY EXACT. THEREFORE, UTILITY LOCATIONS WILL BE VERIFIED AT LEAST 100 FEET IN ADVANCE OF TRENCHING OR PLOWING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN EVENT OF CONFLICTS.
- ALL KNOWN BURIED OBSTRUCTIONS ARE SHOWN ON THE CONSTRUCTION DRAWINGS. ANY AND ALL OTHERS ENCOUNTERED ARE ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPAIR, IF DAMAGED.
- ANY AND ALL IMPROVEMENTS, SUCH AS, ASPHALT OR CONCRETE PAVEMENT, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOD, ETC., IF DAMAGED, SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
- EQUIPMENT TYPES SPECIFIED HEREIN (ie: "BACKHOE", "SWAMP PLOW", ETC.) ARE SUGGESTIONS ONLY AND ARE NOT INTENDED AS REQUIREMENTS. CONTRACTOR WILL BE NOTIFIED AS TO EXCEPTIONS.

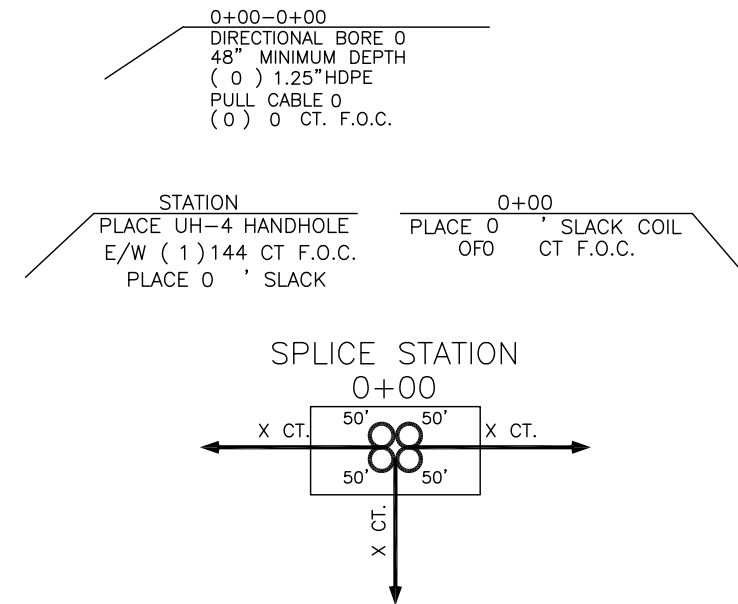
**TRAFFIC CONTROL NOTES:**

ALL WORK SHALL COMPLY WITH THE UNIFORM TRAFFIC CONTROL MANUAL. (1998 EDITION OF MUTCD, REVISION 3) OR NEWER VERSIONS OF THIS MANUAL.

**CLARIFICATION NOTES:**

NOTE: CALLOUTS WILL BE PLACED ON EACH DRAWING INDICATING FOLLOWING:

- A. MATERIAL AMOUNT
- B. DEPTH IF BURIED
- C. SIZE OF FIBER
- D. SIZE OF HDPE
- E. SIZE OF STRAND
- F. CABLE ID



**NOMENCLATURE**

**DEFINITION**

**SYMBOL**

1. BM2-8 :	PLACEMENT OF EIGHT FOOT GROUND ROD OUTSIDE OF HAND HOLE SIX INCHES BELOW GROUND LEVEL WITH PLACEMENT OF GROUND WIRE WITH CONNECTOR.	
2. BM53F :	PLACEMENT OF PLASTIC MARKER POLE, MINIMUM OF 30" IN GROUND AS INDICATED BY DRAWINGS.	
3. BM53F(A) :	PLACEMENT OF LOCATE MARKER POST AND PLACEMENT OF WIRE INSIDE OF POST FROM GROUND ROD AND SPLICE CLOSURE TO BE TERMINATED IN POST FOR LOCATION OF FACILITIES AS INDICATED ON DRAWINGS.	
2. BM72 :	RESTORATION OF ASPHALT PER SQ. FT. AS REQUIRED BY COMPANY REP.	NONE
2. BM73 :	RESTORATION OF CONCRETE PER SQ. FT. AS REQUIRED BY COMPANY REP.	NONE
2. UO-144 :	PLACEMENT OF 144 COUNT FIBER INTO INNER-DUCT, LEAVING SLACK IN HAND HOLES AS INDICATED ON DRAWINGS. PRICE PER PLACEMENT IS ON 'PER FOOT' BASIS.	NONE
2. UO-24 :	PLACEMENT OF 24 COUNT FIBER INTO INNER-DUCT, LEAVING SLACK IN HAND HOLES AS INDICATED ON DRAWINGS. PRICE FOR PLACEMENT IS ON A 'PER FOOT' BASIS.	NONE


PROJECT: MS2645 GREYHAWK (MADISON)	
PROJECT CITY: MADISON	
DATE 4/19/23	DESCRIPTION Construction
SHEET T-01	SCALE N/A

PREPARED BY



43 Town Center Square, Suite 203  
Hattiesburg, MS 39402  
Office phone: (601) 402-9149  
Email: designservices@bbgeomatics.com  
20230093

PREPARED FOR



MAP NUMBER	

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# SYMBOLS KEY

DIRECTIONAL BORE	
AERIAL CABLE	
PLOW OR BURIED CABLE	
DIRECTIONAL BORE 5" HDPE	
PVC OR SPLIT PVC CONDUIT	
ASTMA 139 GRADE B STEEL	
JACK AND BORE	
CORE BORE	
EXISTING TELEPAK CABLE	
PROPOSED HANDHOLE	
EXISTING HANDHOLE	
PROPOSED BORE PIT	
PROPOSED MANHOLE	
H-FRAME	
HANDHOLE (CABLE IN HDPE)	
HH (CABLE IN PVC CONDUIT)	
HANDHOLE (CABLE IN GSP CONDUIT)	
MANHOLE (CABLE IN HDPE)	
MANHOLE (CABLE IN PVC CONDUIT)	
MANHOLE (CABLE IN BSP/GSP CONDUIT)	
ROW MARKER (FOUND)	
ROW MARKER (NOT FOUND)	
ROW/PROPERTY PIN	
MILE MARKER	
STAKE	
MONUMENT	
LIGHTNING ARRESTOR	
AC/DC FILTER PROTECTION	
ALUMINUM HUB STYLE MARKER	
STEEL MARKER	
FLAT COMPOSOLITE MARKER	
TUBULAR MARKER	
GROUND WIRE	
BOND AND GROUND	

RAILROAD TRACKS	
CENTERLINE	
DOT CENTERLINE	
BUILDING	
FENCE	
GUARDRAIL	
WOOD LINE	
DITCH LINE	
TOP/TOE OF SLOPE (TOS)	
AERIAL UTILITY (ELECTRIC)	
BURIED GAS MAIN	
BURIED WATER MAIN	
BURIED POWER	
BURIED COMMUNICATIONS	
UNKNOWN/OTHER UTILITY	
BURIED TRAFFIC SIGNAL CABLE	
SEWER	
DOT FIBER OPTIC CABLE	
UTILITY/POWER POLE	
POLE WITH PEDESTAL	
STREET/SIGNAL LIGHT	
PARKING METER	
CABINET	
UTILITY METER	
SIGN	
RAILROAD SIGNAL	
POST	
TREE	
CURB INLET	
SEWER MANHOLE	
WATER VALVE	
FIRE HYDRANT	
GAS VALVE	
TRANSMISSION POLE	
PEDESTAL	
TRAFFIC SIGNAL	
TRANSFORMER	
HANDHOLE	
UTILITY MARKER	
MAILBOX	
SIGNAL ARM	
COLUMN	
BUSH	
DRAIN INLET	
DRAIN MANHOLE	
IRRIGATION VALVE	
WATER METER	
GAS METER	

ANCHOR ONLY (EXISTING)		ANCHOR AND GUY WHOLLY OWNED BY ANOTHER COMPANY	
GUY ONLY (EXISTING)		SIDEWALK ANCHOR & GUY	
PROPOSED ANCHOR & GUY		PROPOSED SIDEWALK ANC & GUY	
ACCOUNT CODE CHANGE (BURIED - AERIAL)			
OVERHEAD GUY (ARROW IN DIRECTION OF PULL)		92' 10M OHG	
PROPERTY LINE			
EDGE OF PAVEMENT			
BACK OF CURB			
WHITE LINE			
RIGHT-OF-WAY LINE			
TAX DISTRICT BOUNDARY			
PROBE (DEPTH AS INDICATED)			
PERMIT TRACKING FORM IDENTIFIER			

### POLE ATTACHMENT ABBREVIATIONS

PWR	POWER ATTACHMENT	PWR OHG	POWER OVERHEAD GUY
TRI	TRIPLEX	CATV OHG	CATV OVERHEAD GUY
COMM	COMMUNICATIONS ATTACHMENT	CAP BANK	CAPACITOR BANK
CATV	CATV ATTACHMENT	CLTCKT	FIRE ALARM CIRCUIT
SL	STREET LIGHT	PWR DIP	POWER DIP
TSIG	TRAFFIC SIGNAL	COMM DIP	COMMUNICATIONS DIP
MDW	MULTI DROP WIRE	CATV DIP	CATV DIP
COMM OHG	COMMUNICATIONS OVERHEAD GUY	TEOP	TRAFFIC LIGHT
FL	FLOOD LIGHT	TGUY	TRAFFIC GUY
WH	WEATHER HEAD	MS	MIDSPAN
TRAN	TRANSFORMER	OHG	OVERHEAD GUY
TELEPAK	TELEPAK ATTACHMENT	TOP	TOP OF POLE
SEC	SECONDARY POWER	NEU	NEUTRAL

CAUTION NOTES:

PROJECT: MS2645 GREYHAWK (MADISON)	
PROJECT CITY: MADISON	
DATE 4/19/23	DESCRIPTION Construction
SHEET T-02	SCALE N/A

PREPARED BY

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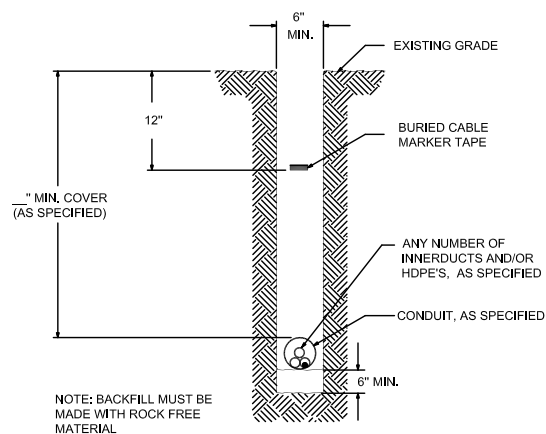
MAP NUMBER	
DISCLAIMER	

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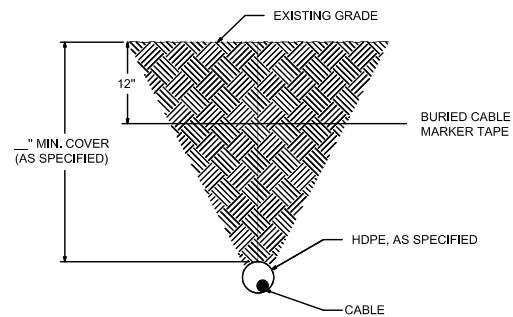


## PLACEMENT-TYPICALS

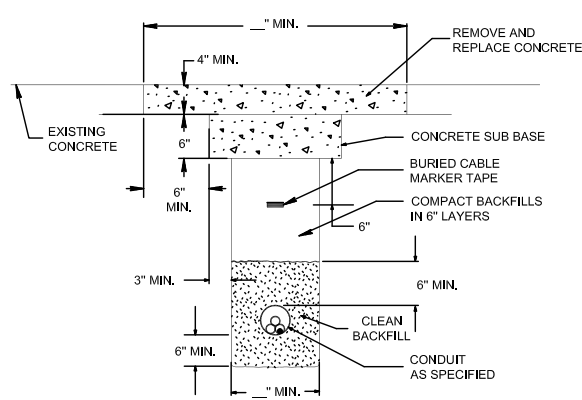
**TYPICAL DETAIL "A"**  
PLACE CONDUIT CROSS SECTION



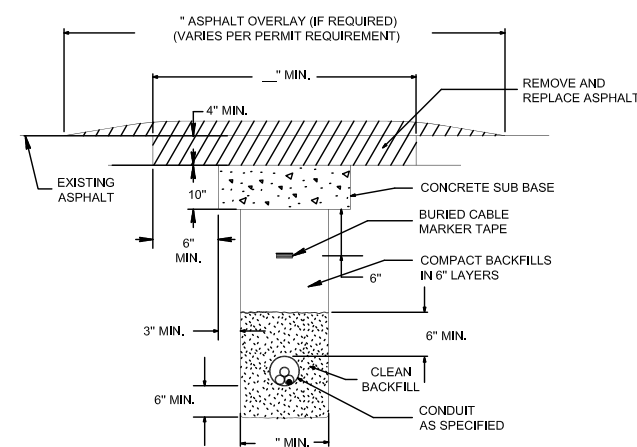
**TYPICAL DETAIL "B"**  
PLACE HDPE CROSS SECTION



**TYPICAL DETAIL "C"**  
CONCRETE / PAVEMENT OPEN CUT CROSS SECTION

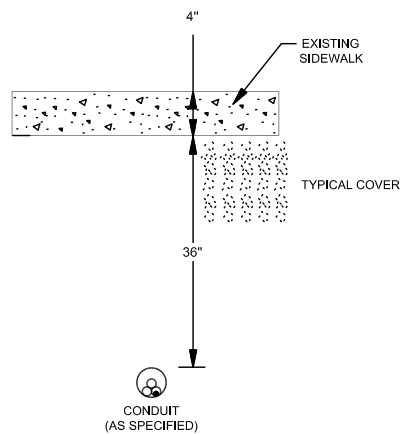


**TYPICAL DETAIL "D"**  
ASPHALT/PAVEMENT OPEN CUT CROSS SECTION

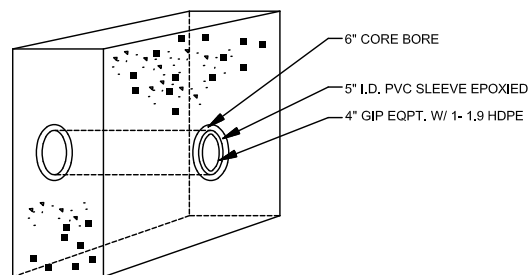


## OPEN CUT-TYPICALS

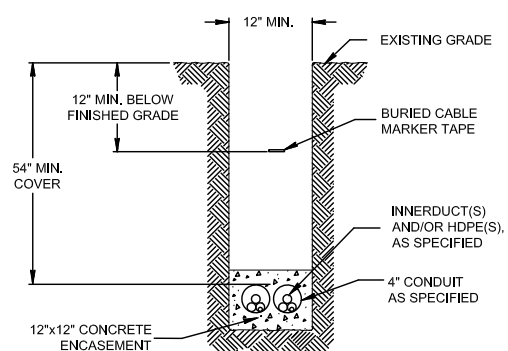
**TYPICAL DETAIL "E"**  
BORE CONCRETE SIDEWALK



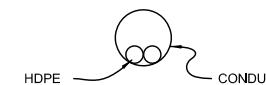
**TYPICAL DETAIL "F"**  
CORE BORE  
(CONCRETE / BRICK WALL)



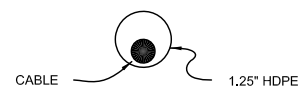
**TYPICAL DETAIL "G"**  
12"x12" CONCRETE ENCASEMENT



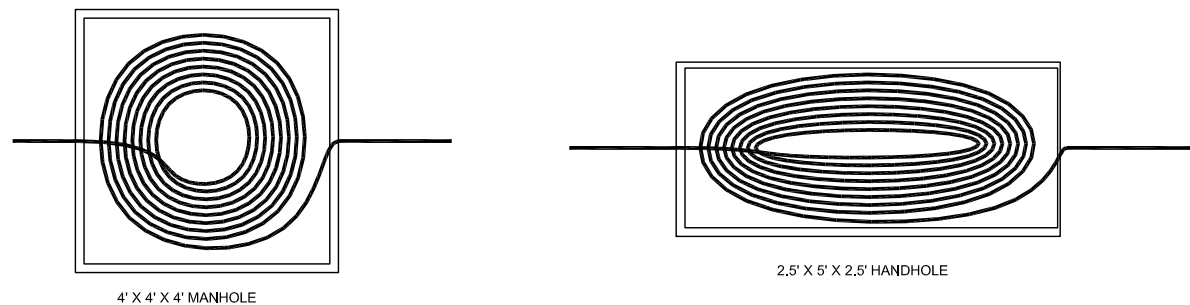
**TYPICAL DETAIL "H"**  
PLACE (2) 1.25" HDPE IN CONDUIT



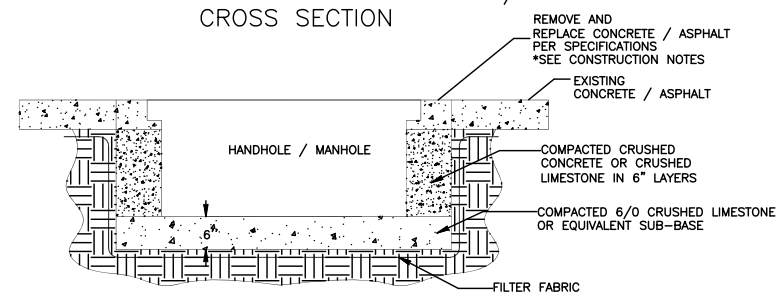
**TYPICAL DETAIL "I"**  
PLACE CABLE IN HDPE



**TYPICAL DETAIL "J"**  
MANHOLE & HANDHOLE SLACK COIL DETAIL



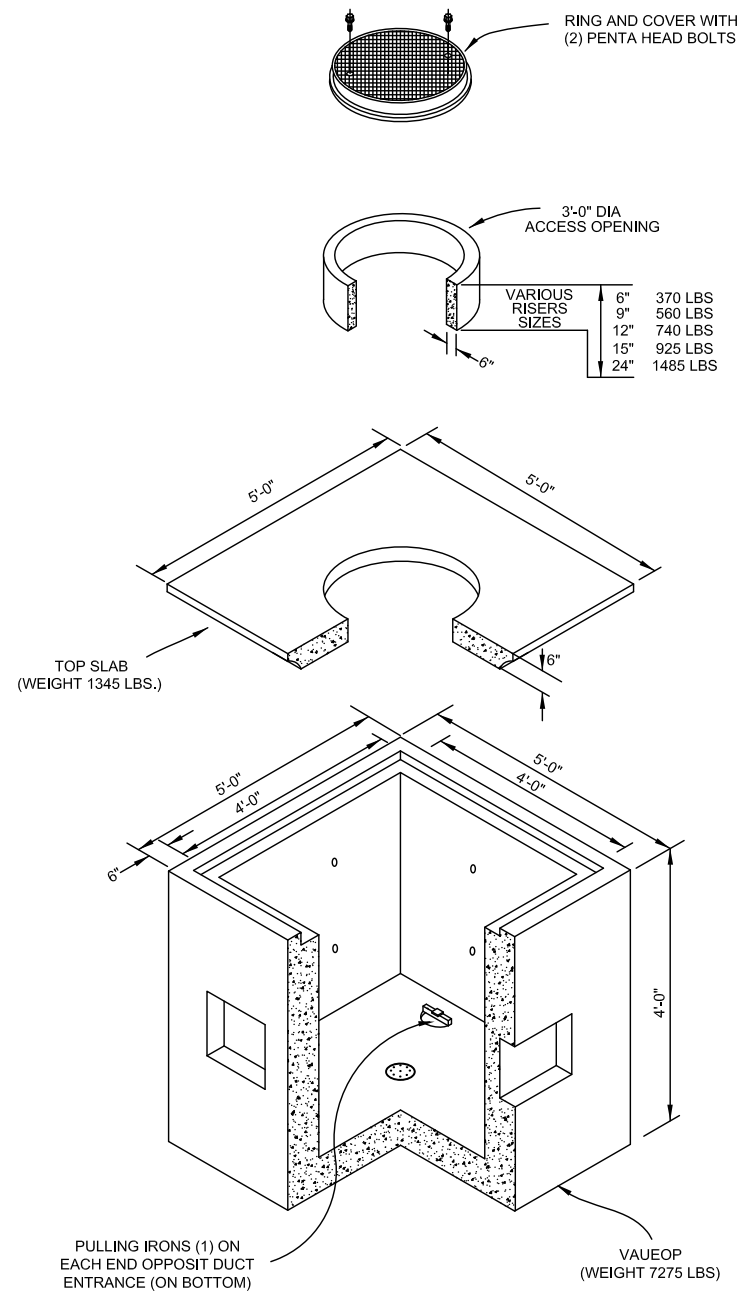
**TYPICAL DETAIL "K"**  
HANDHOLE INSTALLATION IN CONCRETE / ASPHALT CROSS SECTION



# CAPITOL CONCRETE PRODUCTS, INC

FIBER OPTIC/LIGHTGUIDE  
SPLICE VAUEOP  
4'-0"X4'-0"X4'-0"

GRADE 60 REINFORCEMENT  
4500 PSI CONCRETE  
REINFORCEMENT FOR  
AASHTO M-20 LOADING



PROJECT: MS2645 GREYHAWK (MADISON)

PROJECT CITY: MADISON

DATE	DESCRIPTION
4/19/23	Construction

SHEET	SCALE
T-04	N/A

PREPARED BY



43 Town Center Square, Suite 203  
Hattiesburg, MS 39402  
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Email: [designservices@bbgeomatrics.com](mailto:designservices@bbgeomatrics.com)  
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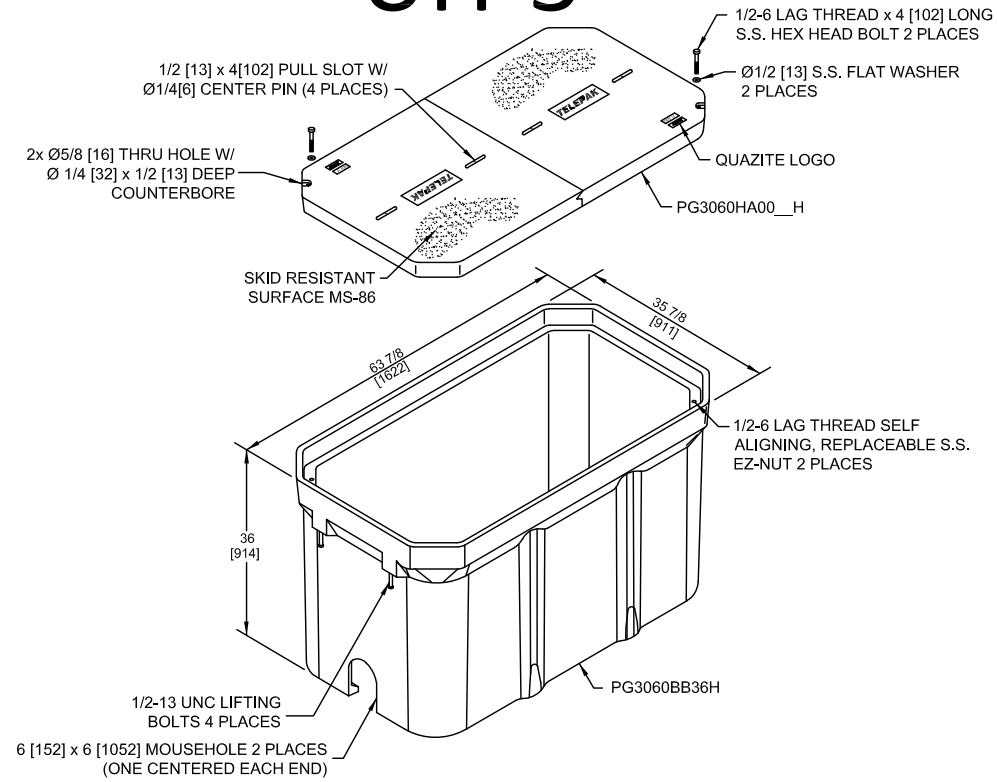


MAP NUMBER

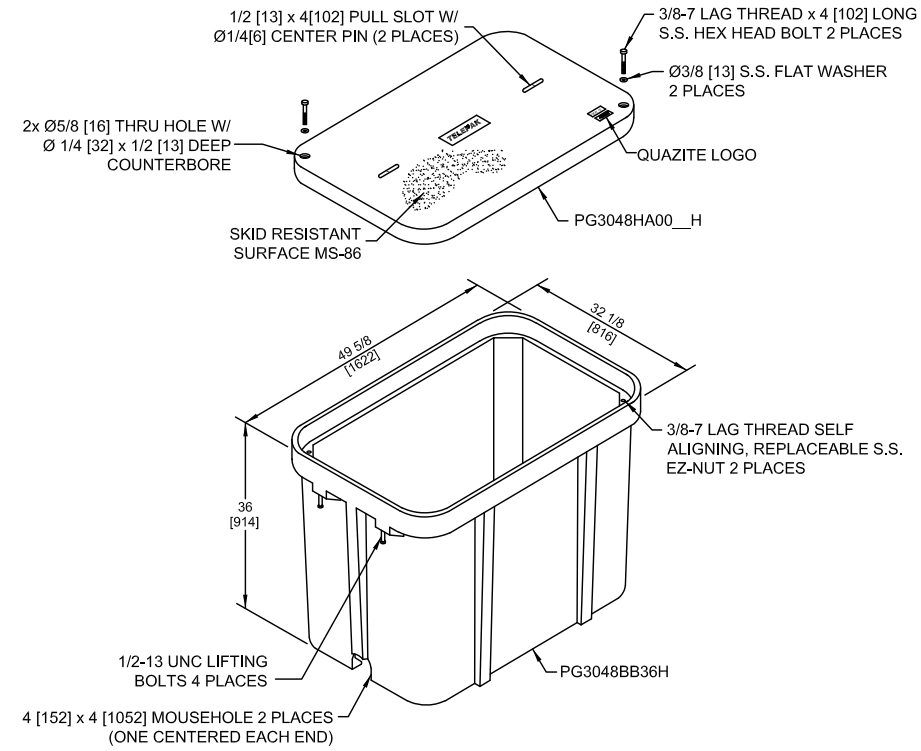

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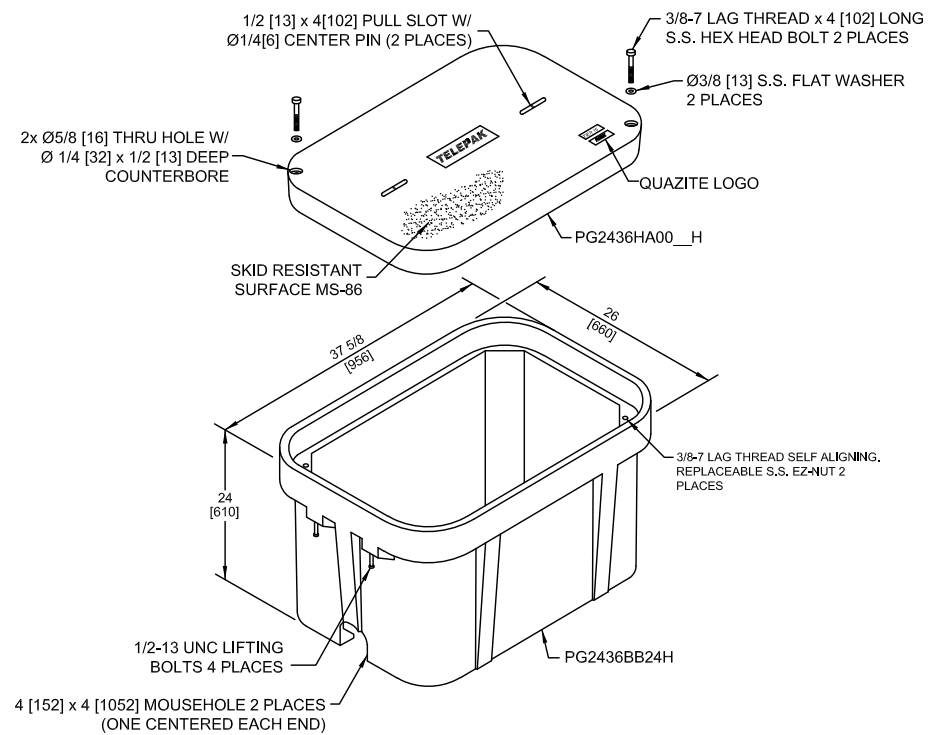
# UH-5



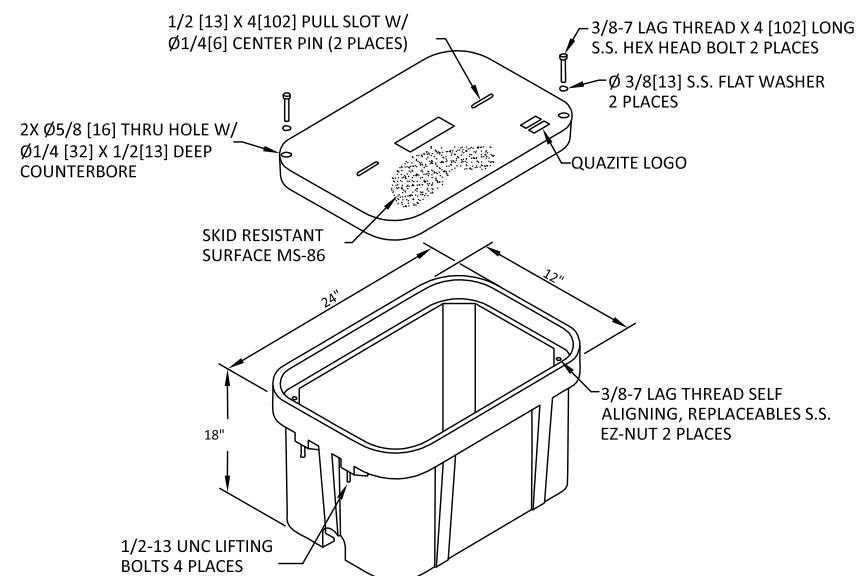
# UH-4



# UH-3



# UH-2



PROJECT: MS2645 GREYHAWK (MADISON)

PROJECT CITY: MADISON

DATE	DESCRIPTION
4/19/23	Construction

SHEET	SCALE
T-05	N/A

PREPARED BY



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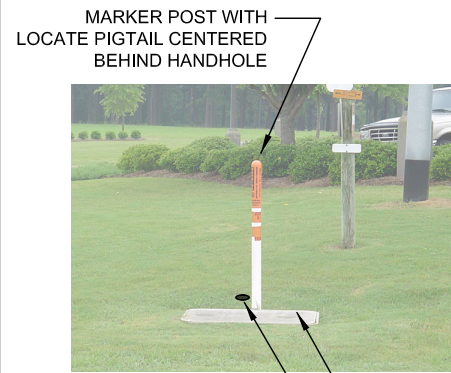
MAP NUMBER


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## TYPICAL HAND HOLE INSTALLATION



MARKER POST WITH LOCATE PIGTAIL CENTERED BEHIND HANDHOLE

**AT EVERY HANDHOLE LOCATION WITH A MARKER POST,**  
1.25" HDPE SHOULD EXTEND 48" INTO MARKER POST. HDPE SHOULD ALSO EXTEND 6" ABOVE GRAVEL AT THE BOTTOM OF THE HANDHOLE.

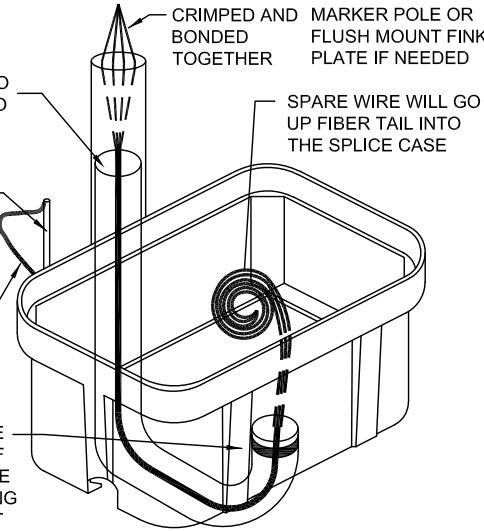
**AT EVERY TEST STATION, BURY**  
GROUND ROD 6" BELOW GROUND AND 6" TO THE LEFT OF MARKER POST

BLACK WIRE BONDED TO 8' GROUND ROD **AT TEST STATIONS ONLY**

PLACE BLUE TAPE NEAR THE TOP OF HDPE TO INDICATE THE DUCT LEADING TO MARKER POST

**NOTES:**

1. THIS ASSEMBLY IS RATED FOR A STATIC DESIGN LOAD OF 15,000 LBS. [66,720 N] OVER A 10 [254] X 10 [254] AREA AND MUST PASS A MIN. STATIC TEST LOAD OF 22,500 LBS. [100,085 N].
2. ALL ENCLOSURES, BOXES AND COVERS, ARE REQUIRED TO CONFORM TO ALL TEST PROVISIONS OF ANSI/SCTE 77 2007 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY" AS MANUFACTURED BY QUAZITE OR EQUIVALENT WITH TELEPAK NETWORK'S ENGINEER'S SIGNED APPROVAL. THE COVERS MUST BE RATED FOR TIER 15 APPLICATIONS AND BOXES RATED FOR TIER 22 APPLICATIONS AND IN NO ASSEMBLY CAN THE COVER DESIGN LOAD EXCEED THE DESIGN LOAD OF THE BOX. ALL COMPONENTS IN AN ASSEMBLY (BOX & COVER) ARE MANUFACTURED USING MATCHED SURFACE TOOLING. ALL COVERS ARE REQUIRED TO HAVE A MINIMUM COEFFICIENT OF FRICTION OF 0.50 IN ACCORDANCE WITH ASTM C 1028 AND HAVE TIER 15 AND "TELEPAK NETWORKS 800-342-3716" EMBOSSED ON THE TOP SURFACE. ALL COVER BOLTS TO BE SELF-CLEANING AUGER BOLT ASSEMBLIES.



PIGTAILS ARE TO BE INSTALLED AT TEST STATION (T.S.) ONLY.

HANDHOLES ARE TO BE INSTALLED A MINIMUM OF THREE FEET FROM ANY UTILITY OR POWER POLE.

BOXES (Nestable)

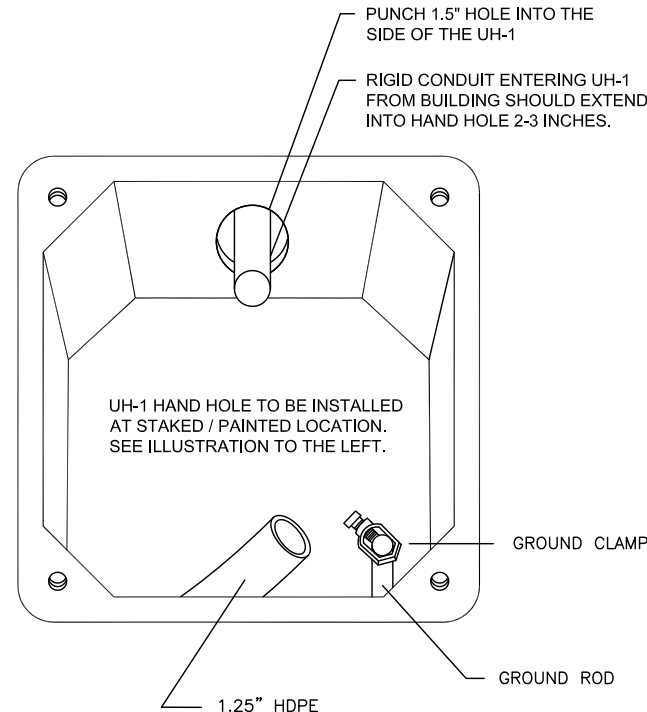
DESCRIPTION	PART NO.	WEIGHT	DESIGN/TEST LOAD#
UH-5 30x60x36	PG3060Z501	933# 423KG.	15'000 LBS
UH-4 30x48x36	PG3048Z579	563# 255KG.	15'000 LBS
UH-3 24x36x24	PG2436Z905	284# 129KG.	15'000 LBS

DIMENSIONS ARE IN INCHES OR MILLIMETERS IN BRACKETS UNLESS OTHERWISE NOTED.

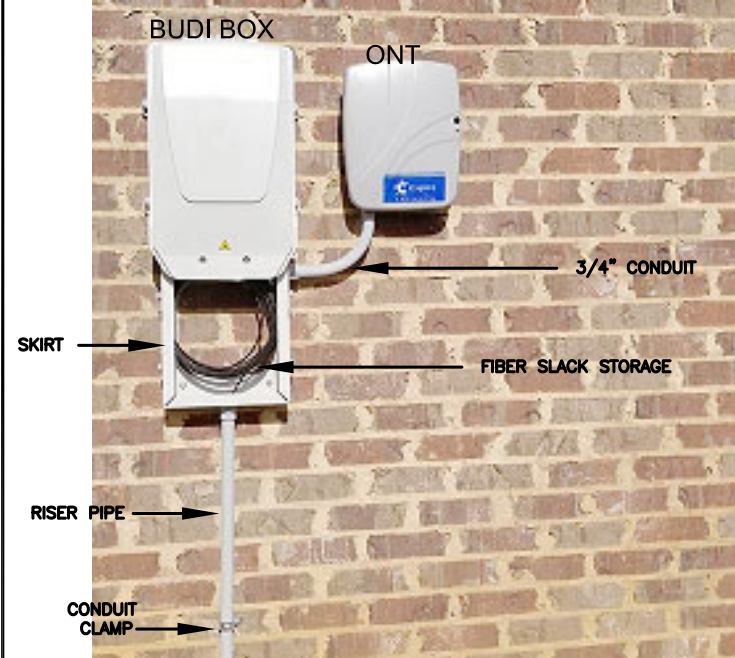
## TYPICAL UH-1 / UH-2 HAND HOLE INSTALLATION PROCEDURES AT BUILDING ENTRIES



UH-1 / UH-2 INSTALLATION LOCATION WILL BE MARKED BY A STAKE AND/OR PAINT. CSPIRE/OSP WILL INSTALL CONDUIT 8" UNDERGROUND TO DESIRABLE UH-1 LOCATION.



## TYPICAL BUDI BOX, SKIRT & ONT COMBO OUTDOOR INSTALLATION PROCEDURES AT BUILDING ENTRIES

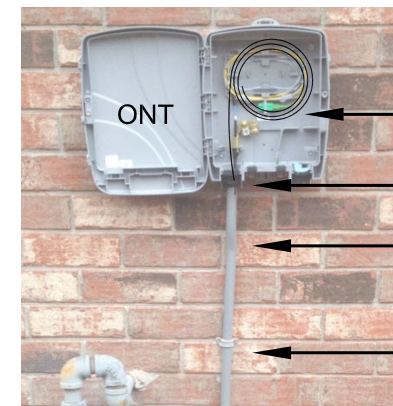


1. PLEASE MOUNT BUDI BOX 36" OFF THE GROUND UNLESS OTHERWISE STATED ON THE DRAWINGS.
2. BUDI BOX & ONT INSTALLATION LOCATION WILL BE SHOWN ON THE CONSTRUCTION DRAWINGS. PLEASE DO NOT USE PICTURES AS A HEIGHT INDICATOR FOR THE INSTALLATION.
3. MOUNT 3" RISER PIPE TO THE WALL USING SHOWN CONDUIT STRAPS.
4. JOIN RISER PIPE TO SKIRT AT SHOWN LOCATION & MOUNT BUDI BOX & SKIRT TO WALL.
5. USING A 3/4" SWEEPING 90, CONNECT SKIRT TO ONT AND MOUNT ONT TO WALL.
6. PLACE FIBER FROM DUCT INTO RISER PIPE AND INTO SKIRT LEAVING A 5' SLACK LOOP.

## BUDI BOX, SKIRT & ONT COMBO OUTDOOR INSTALLATION COMPLETED INSTALL



## TYPICAL ONT OUTDOOR INSTALLATION PROCEDURES AT BUILDING ENTRIES



1. PLEASE MOUNT ONT 48" OFF THE GROUND UNLESS OTHERWISE STATED ON THE DRAWINGS.
2. ONT & FDP INSTALLATION LOCATION WILL BE SHOWN ON THE CONSTRUCTION DRAWINGS. PLEASE DO NOT USE PICTURES AS A HEIGHT INDICATOR FOR THE INSTALLATION. MOUNT ONT AS CLOSE TO THE POWER METER AS POSSIBLE
3. DUCT PLACED BY DIRECTIONAL BORING SHOULD MEET THE RISER PIPE UNDERGROUND NEAR THE BASE OF THE WALL. A 4" GAP BETWEEN THE DUCT AND THE RISER PIPE IS ACCEPTABLE.
4. MOUNT 4" RISER PIPE TO THE WALL USING SHOWN CONDUIT CLAMPS.
5. JOIN RISER PIPE TO ONT AT SHOWN LOCATION & MOUNT ONT TO THE WALL.
6. PLACE FIBER FROM DUCT INTO RISER PIPE AND INTO ONT.
7. LEAVE 5' OF SLACK INSIDE OF THE ONT. SLACK SHOULD BE LOOSELY STORED AND NOT LOOPED TIGHTLY.

PROJECT: MS2645 GREYHAWK (MADISON)

PROJECT CITY: MADISON

DATE 4/19/23 DESCRIPTION Construction

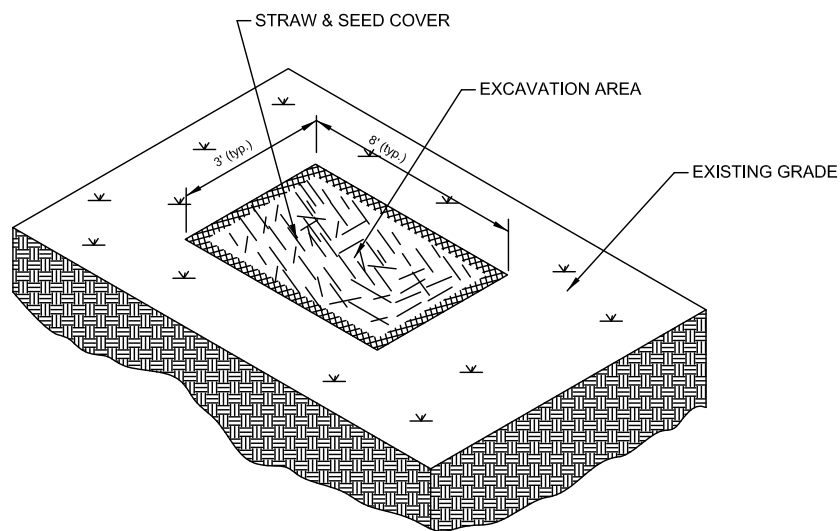
SHEET T-06 SCALE N/A

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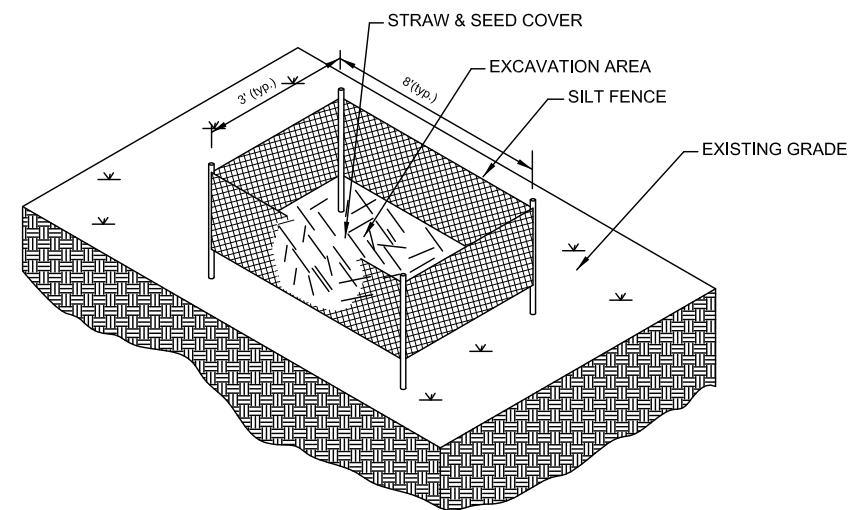
MAP NUMBER	

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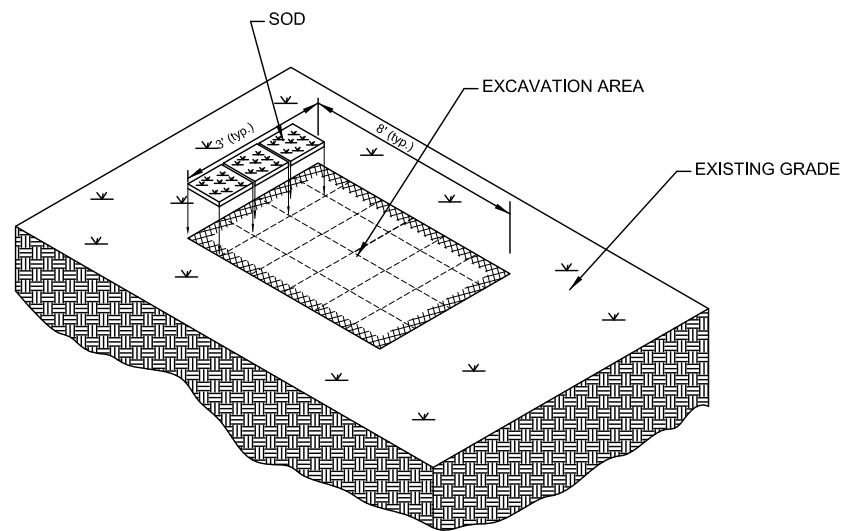
**TYPICAL EROSION DETAIL #1**  
NOTE TO CONSTRUCTION:

WHERE APPLICABLE  
RE-COMPACT SOIL AROUND  
HANDHOLES AND BOREPITS  
USE HAY AND SEED COVER  
FOR EROSION CONTROL.



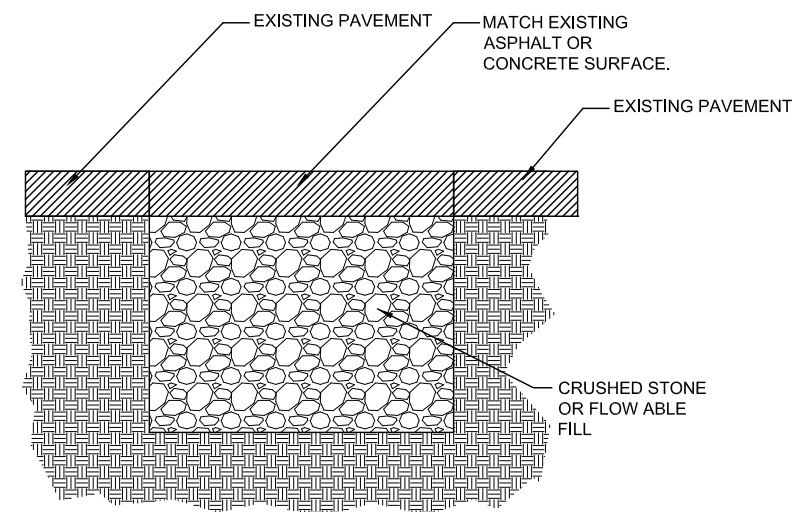
**TYPICAL EROSION DETAIL #2**  
NOTE TO CONSTRUCTION:

FOR HIGHER DEGREE OF SLOPE  
RE-COMPACT SOIL AROUND  
HANDHOLES AND BOREPITS. USE  
HAY, SEED AND SILT FENCES FOR  
EROSION CONTROL.



**TYPICAL EROSION DETAIL #3**  
NOTE TO CONSTRUCTION:

FOR EROSION CONTROL IN  
WELL MANICURED AREAS  
RE-COMPACT SOIL AROUND  
HANDHOLES AND BOREPITS.  
RE-SOD TO MATCH EXISTING  
GROUND COVER.



**TYPICAL PAVEMENT REPAIR**

**DETAIL #4**  
NOTE TO CONSTRUCTION:

RE-COMPACT EFFECTED  
AREAS WITH CRUSHED  
STONE OR FLOW ABLE  
FILL.  
MATCH EXISTING PAVEMENT  
SURFACE.

PROJECT: MS2645 GREYHAWK (MADISON)	
PROJECT CITY: MADISON	
DATE 4/19/23	DESCRIPTION Construction
SHEET T-07	SCALE N/A

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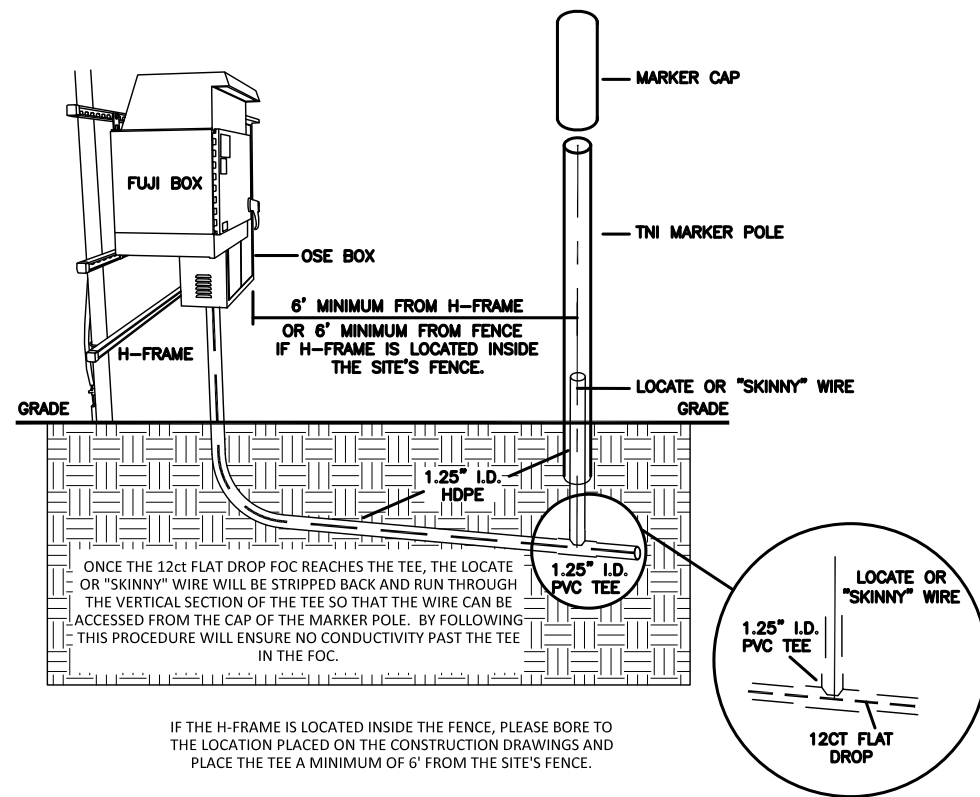
PREPARED FOR  


MAP NUMBER	

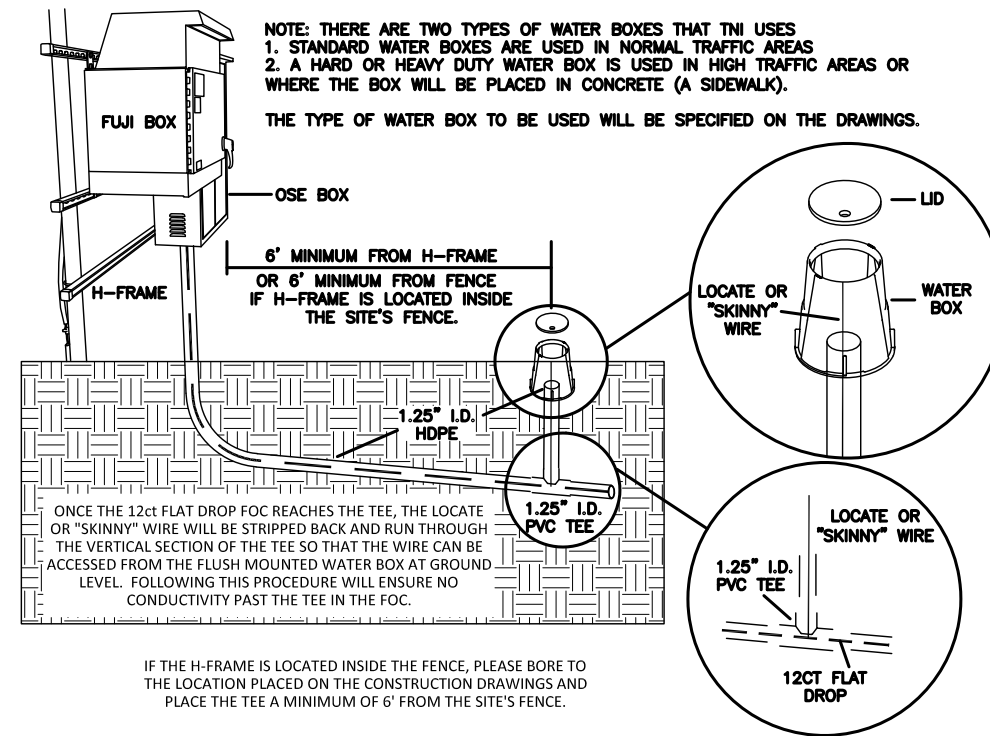
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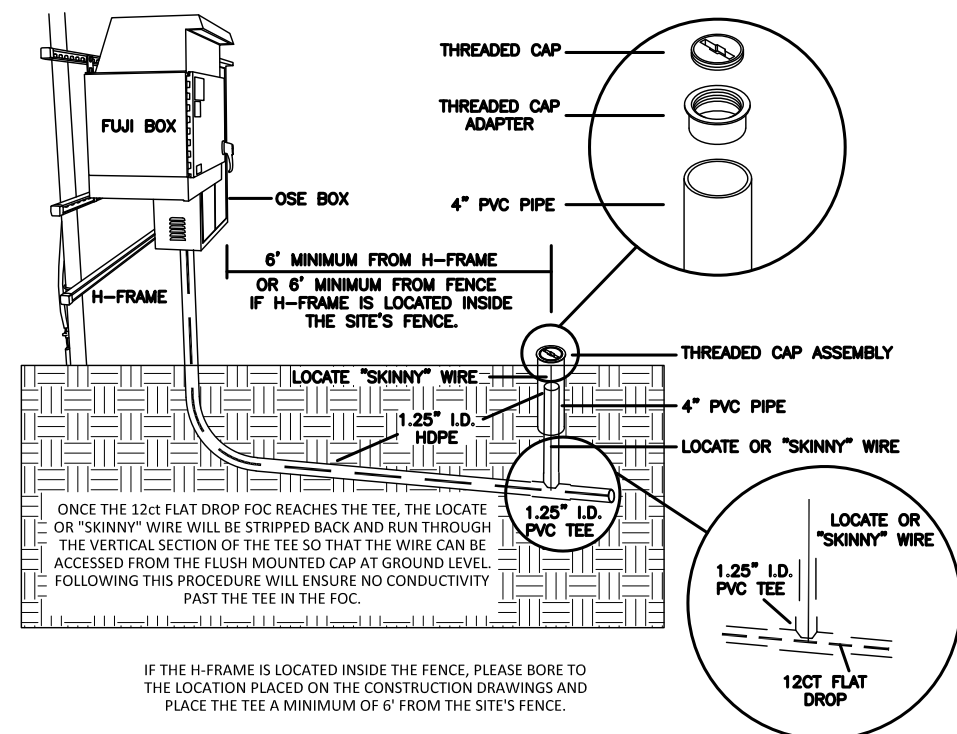
## DIELECTRIC TEST STATION (DTS) TYPICALS



## FLUSH MOUNTED WATER BOX INSTALLATION OPTION TWO



## THREADED PVC FLUSH MOUNTED ACCESS CAP OPTION THREE



PROJECT: MS2645 GREYHAWK (MADISON)

PROJECT CITY: MADISON

DATE	DESCRIPTION
4/19/23	Construction

SHEET	SCALE
T-08	N/A

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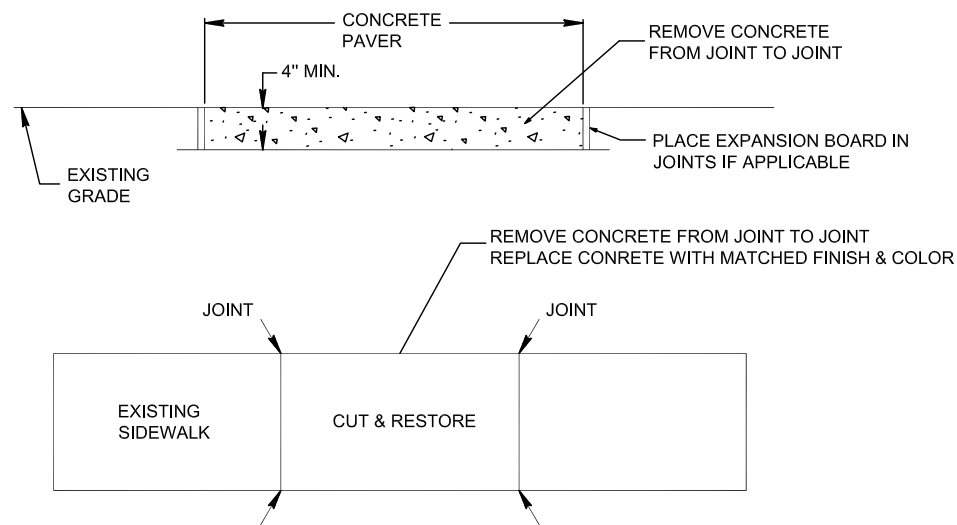
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# SIDEWALK CUT & RESTORE TYPICAL DETAIL

SIDEWALK MUST BE ADA COMPLIANT WHERE APPLICABLE

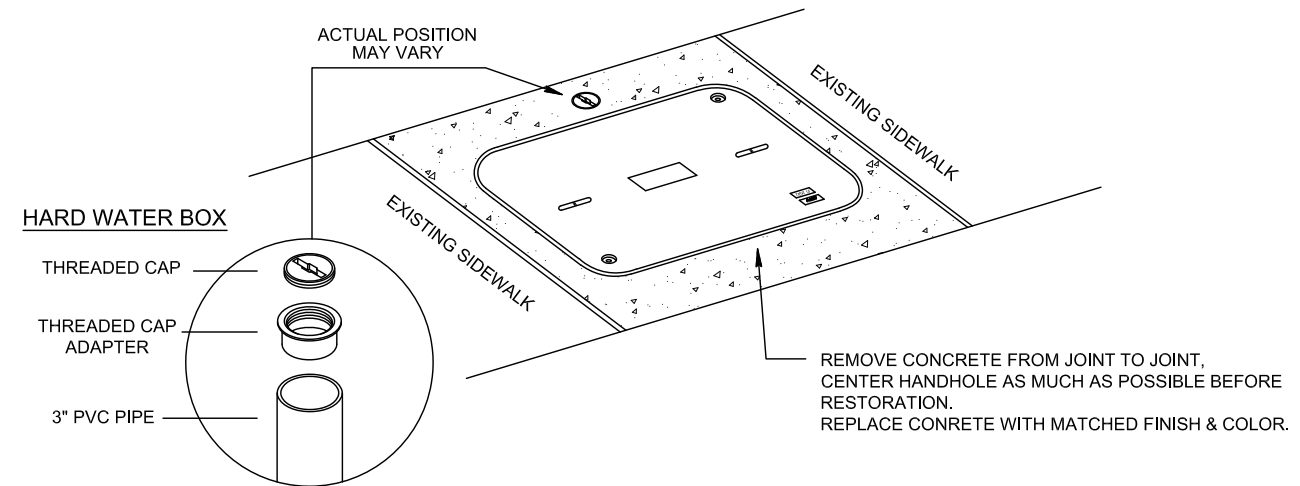
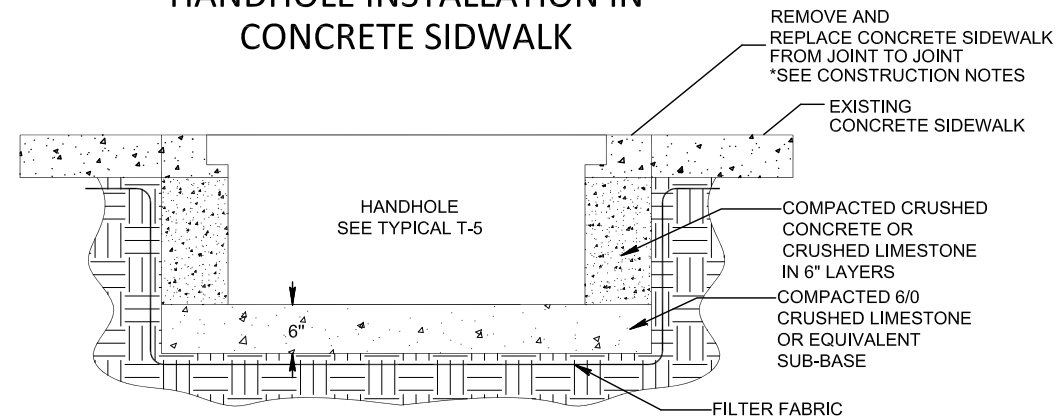
## TYPICAL DETAIL "A" CONCRETE CUT & RESTORE REPLACEMENT



### CONSTRUCTION NOTES:

1. PROVIDE BARRIERS AND TRAFFIC CONTROL PER MUTCD REV.3 OR NEWER.
2. CUT & RESTORE AREAS SHALL BE RETURNED TO ORIGINAL, OR BETTER CONDITION.
3. SIDEWALKS THAT HAVE EXPANSION BOARD IN USE IN ADJACENT AREAS SHALL BE RESTORED WITH EXPANSION BOARD.
4. EXPOSED AGGREGATE FINISHED SIDEWALKS SHALL BE RESTORED WITH SAME FINISH.
5. ENSURE FINISH IS SLIP RESISTANT.
6. BRICK SIDEWALKS SHALL BE RESTORED TO THE SAME FINISH.
7. ENSURE FLUSH MOUNT TEST STATIONS DO NOT PRESENT A TRIP HAZARD.
8. COVER CONCRETE FOR A MINIMUM OF 12 HOURS PRIOR TO REMOVING PEDESTRIAN BARRIERS.
9. RESTORATION AREA MUST BE RESTORED TO AN OPERATIONAL SIDEWALK PRIOR TO CLOSING ANY CONSTRUCTION PERMITS.

## TYPICAL DETAIL "B" HANDHOLE INSTALLATION IN CONCRETE SIDEWALK



**AT EVERY HANDHOLE LOCATION WITH TEST WIRE IN A SIDEWALK, IF APPLICABLE, INSTALL A FLUSH MOUNT HARD WATER BOX. RESTORE CONCRETE TO ORIGINAL FINISH & COLOR**

PROJECT: MS2645 GREYHAWK (MADISON)	
PROJECT CITY: MADISON	
DATE 4/19/23	DESCRIPTION Construction
SHEET T-09	SCALE N/A

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FOR EXISTING BUILD INFO SEE:  
OSP Subproject 66263-001 FTTH Autumn Crest of Madison Co-Madison-Madison County  
&  
OSP Subproject 28696-001 FTTH Falls Crossing Madison

0+00-5+31  
DIRECTIONAL BORE 531'  
48" MINIMUM DEPTH  
( 2 ) 1.25" HDPE  
PULL CABLE 531'  
( 1 ) 96 CT. F.O.C.

0+00  
PLACE 50' SLACK COIL  
OF 96 CT F.O.C.

SPLICE STATION  
0+00

0+00  
EXIST. CSF HH

0+36  
EDGE OF ROAD

0+61  
0+68  
EDGE OF ROAD  
UTIL HANDHOLE 4'0/C

0+72  
PROP. BORE PIT

3+52  
PLACE UH-4 HANDHOLE  
E/W ( 1 ) 96 CT F.O.C.  
PLACE 100' SLACK

3+52  
PROP. CSF HH

4+24  
PWR POLE 4'0/C

3+52  
FCFO-N2  
UH-4  
PASS THRU  
100' SLACK LOOP

3+45  
EDGE OF ROAD

3+08  
EDGE OF ROAD

2+97  
PLACE UH-4 HANDHOLE  
E/W ( 1 ) 96 CT F.O.C.  
PLACE 100' SLACK

2+97  
PROP. CSF HH

2+97  
FCFO-N1  
UH-4  
PASS THRU  
100' SLACK LOOP

CAUTION  
FIBER CROSSING

CAUTION  
PARALLEL BORE

SEE SHEET 002 TO MATCH STA. 5+31



PROJECT: MS2645 GREYHAWK (MADISON)	
PROJECT CITY: MADISON	
DATE 4/19/23	DESCRIPTION Construction
SHEET 001	SCALE 1"=50'

REVISIONS			
REV.	DESCRIPTION	INITIALS	DATE

MATERIAL LIST		
ITEM	DESCRIPTION	QUANTITY
1	TOTAL CABLE FT.	781'
2	DIR-BORE CABLE	531'
3	PULL CABLE	0'
4	BURIED SLACK	250'
5	1.25" HDPE	1062'
6	5" HDPE CASING	0'
7	HANDHOLES	2
8	MANHOLES	0
9	SPLICE CLOSURE	1
10	H-POSTS	0
11	GROUND RODS	0
12	MARKER POLES	2
13	MARKER POLES W/TS	0
14	ONT	0
15	BUDI-BOX	0
16	COUPLINGS	2
17	LOCATABLE MULE TAPE	0'
18	DIG/TRENCH CABLE	0'
19	AERIAL CABLE	0
20	AERIAL SLACK	0'
21		

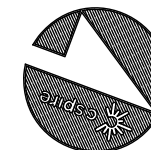
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MAP NUMBER	
001	002

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MADISON, MS  
MADISON COUNTY



PROJECT: MS2645 GREYHAWK (MADISON)

PROJECT CITY: MADISON

DATE	DESCRIPTION
4/19/23	Construction

SHEET	SCALE
002	1"=50'

REVISIONS

REV.	DESCRIPTION	INITIALS	DATE

MATERIAL LIST

ITEM	DESCRIPTION	QUANTITY
1	TOTAL CABLE FT.	629'
2	DIR-BORE CABLE	629'
3	PULL CABLE	0'
4	BURIED SLACK	0'
5	1.25" HDPE	1258'
6	5" HDPE CASING	0'
7	HANDHOLES	0
8	MANHOLES	0
9	SPLICE CLOSURE	0
10	H-POSTS	0
11	GROUND RODS	0
12	MARKER POLES	0
13	MARKER POLES W/TS	0
14	ONT	0
15	BUDI-BOX	0
16	COUPLINGS	2
17	LOCATABLE MULE TAPE	0'
18	DIG/TRENCH CABLE	0'
19	AERIAL CABLE	0
20	AERIAL SLACK	0'
21		

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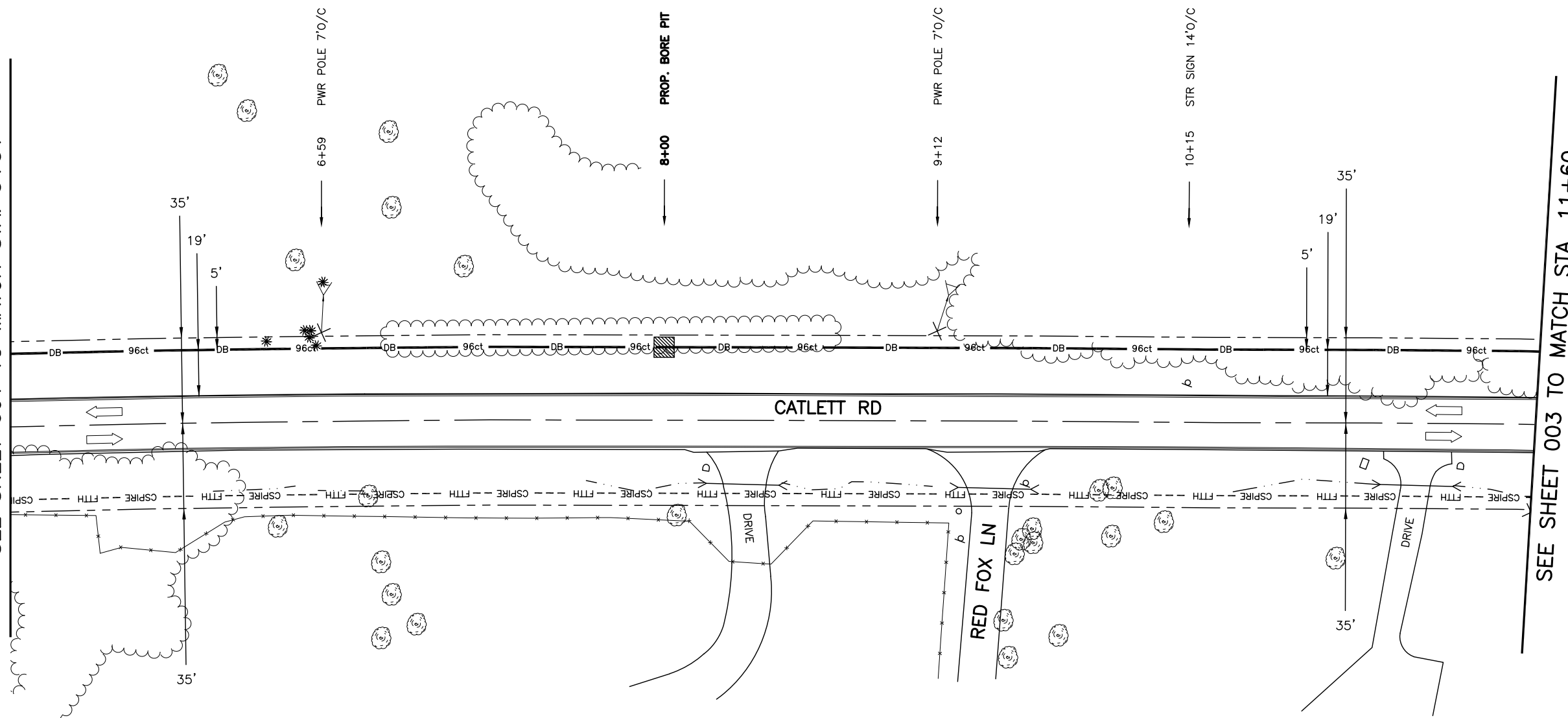
MAP NUMBER

001	002	003
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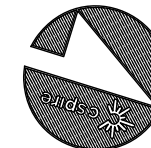
SEE SHEET 001 TO MATCH STA. 5+31



5+31-11+60  
DIRECTIONAL BORE 629'  
48" MINIMUM DEPTH  
( 2 ) 1.25" HDPE  
PULL CABLE 629'  
( 1 ) 96 CT. F.O.C.

MADISON, MS

MADISON COUNTY



PROJECT: MS2645 GREYHAWK (MADISON)

PROJECT CITY: MADISON

DATE 4/19/23 DESCRIPTION Construction

SHEET 003 SCALE 1"=50'

REVISIONS

REV.	DESCRIPTION	INITIALS	DATE

MATERIAL LIST

ITEM	DESCRIPTION	QUANTITY
1	TOTAL CABLE FT.	767'
2	DIR-BORE CABLE	667'
3	PULL CABLE	0'
4	BURIED SLACK	100'
5	1.25" HDPE	1334'
6	5" HDPE CASING	0'
7	HANDHOLES	1
8	MANHOLES	0
9	SPLICE CLOSURE	0
10	H-POSTS	0
11	GROUND RODS	0
12	MARKER POLES	1
13	MARKER POLES W/TS	0
14	ONT	0
15	BUDI-BOX	0
16	COUPLINGS	2
17	LOCATABLE MULE TAPE	0'
18	DIG/TRENCH CABLE	0'
19	AERIAL CABLE	0
20	AERIAL SLACK	0'
21		

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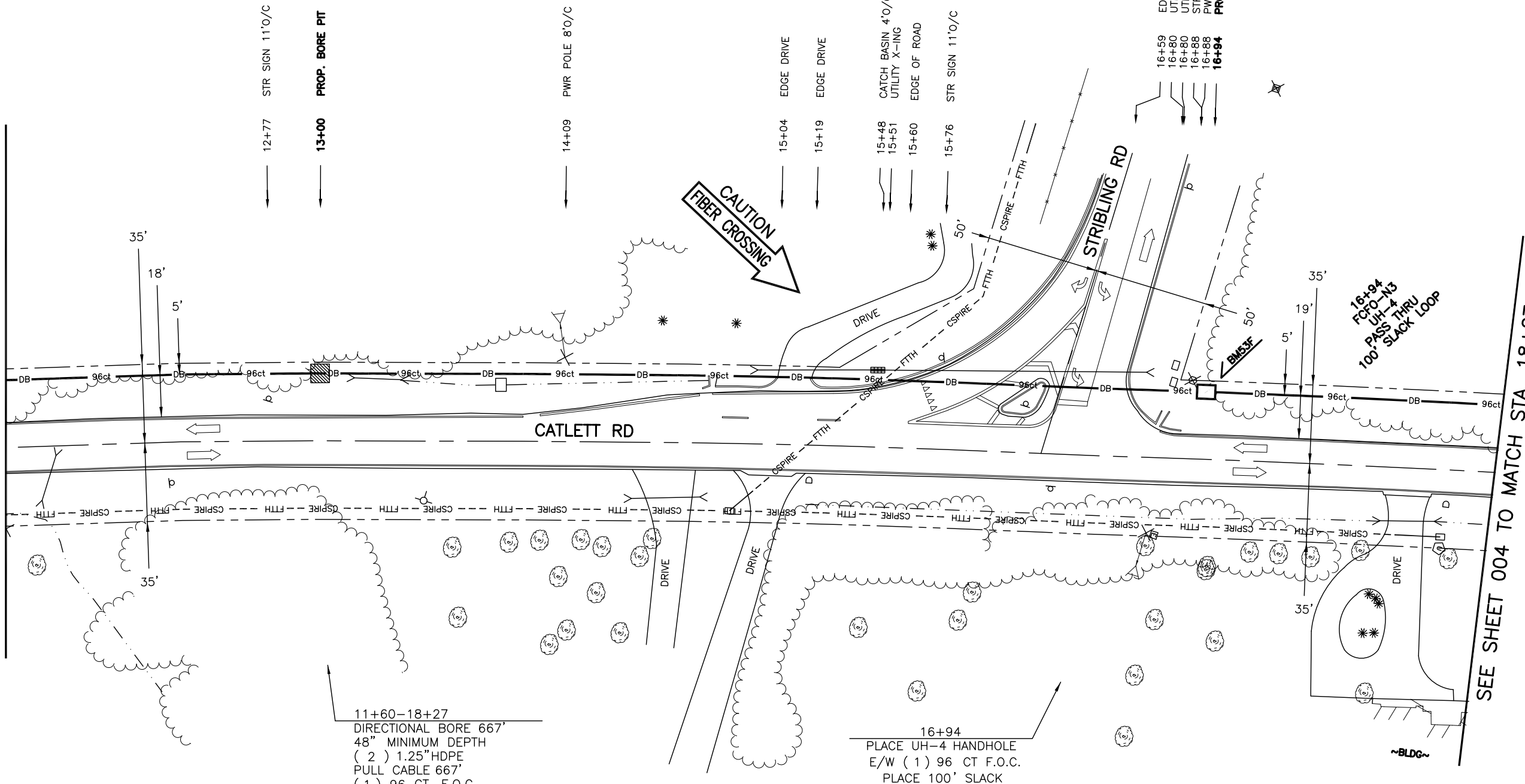
002	003	004
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SEE SHEET 002 TO MATCH STA. 11+60

SEE SHEET 004 TO MATCH STA. 18+27



MADISON, MS  
MADISON COUNTY



PROJECT: MS2645 GREYHAWK (MADISON)

PROJECT CITY: MADISON

DATE	DESCRIPTION
4/19/23	Construction

SHEET	SCALE
004	1"=50'

REVISIONS

REV.	DESCRIPTION	INITIALS	DATE

MATERIAL LIST

ITEM	DESCRIPTION	QUANTITY
1	TOTAL CABLE FT.	676'
2	DIR-BORE CABLE	676'
3	PULL CABLE	0'
4	BURIED SLACK	0'
5	1.25" HDPE	1352'
6	5" HDPE CASING	0'
7	HANDHOLES	0
8	MANHOLES	0
9	SPLICE CLOSURE	0
10	H-POSTS	0
11	GROUND RODS	0
12	MARKER POLES	0
13	MARKER POLES W/TS	0
14	ONT	0
15	BUDI-BOX	0
16	COUPLINGS	2
17	LOCATABLE MULE TAPE	0'
18	DIG/TRENCH CABLE	0'
19	AERIAL CABLE	0
20	AERIAL SLACK	0'
21		

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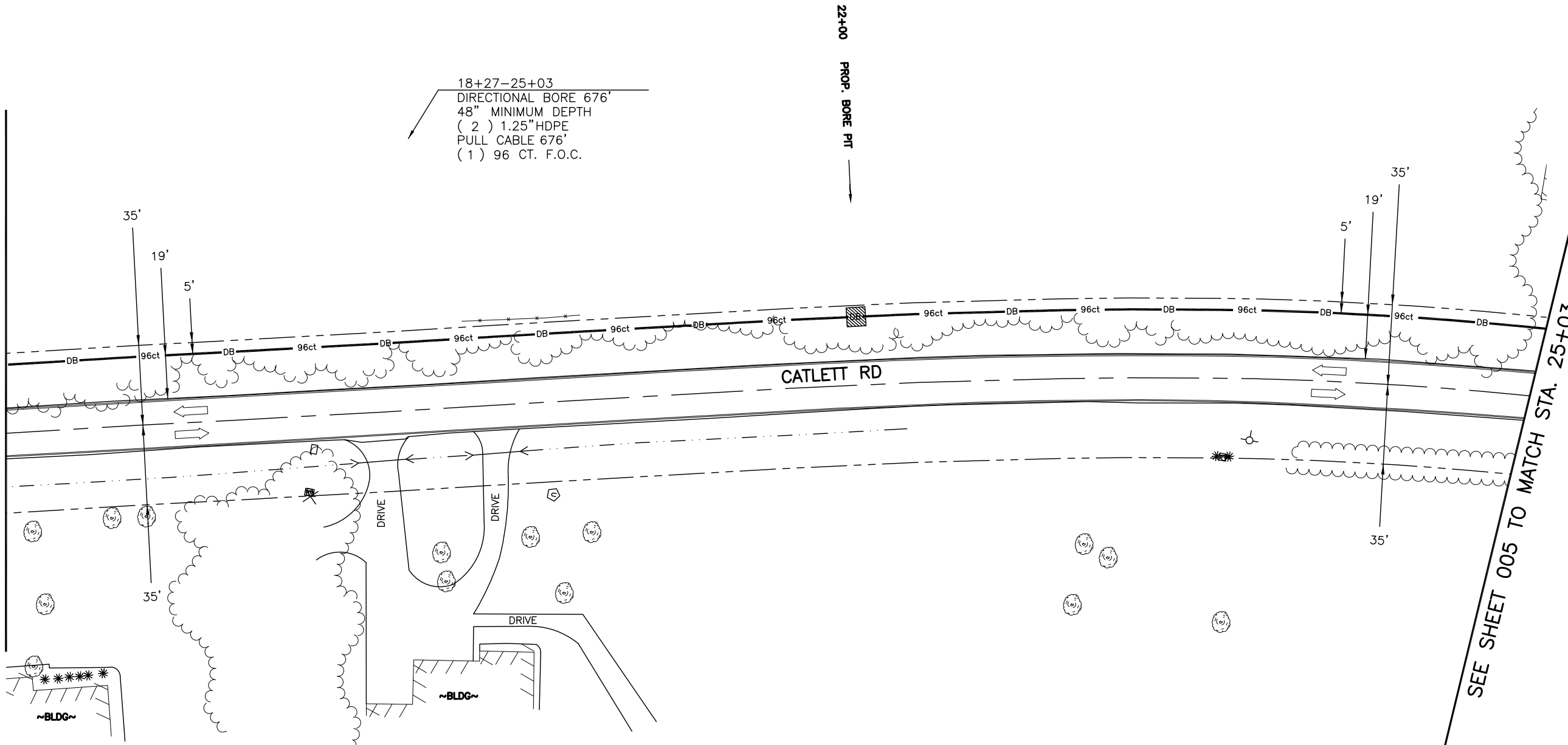
MAP NUMBER

003	004	005
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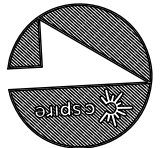
SEE SHEET 003 TO MATCH STA. 18+27



SEE SHEET 005 TO MATCH STA. 25+03



MADISON, MS  
MADISON COUNTY



PROJECT: MS2645 GREYHAWK (MADISON)

PROJECT CITY: MADISON

DATE: 4/19/23  
DESCRIPTION: Construction

SHEET: 005  
SCALE: 1"=50'

REVISIONS

REV.	DESCRIPTION	INITIALS	DATE

MATERIAL LIST

ITEM	DESCRIPTION	QUANTITY
1	TOTAL CABLE FT.	776'
2	DIR-BORE CABLE	676'
3	PULL CABLE	0'
4	BURIED SLACK	100'
5	1.25" HDPE	1352'
6	5" HDPE CASING	0'
7	HANDHOLES	1
8	MANHOLES	0
9	SPLICE CLOSURE	0
10	H-POSTS	0
11	GROUND RODS	0
12	MARKER POLES	1
13	MARKER POLES W/TS	0
14	ONT	0
15	BUDI-BOX	0
16	COUPLINGS	2
17	LOCATABLE MULE TAPE	0'
18	DIG/TRENCH CABLE	0'
19	AERIAL CABLE	0
20	AERIAL SLACK	0'
21		

PREPARED BY



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20230093

PREPARED FOR



MAP NUMBER

004	005	006
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SEE SHEET 005 TO MATCH STA. 25+03

SEE SHEET 006 TO MATCH STA. 31+79

25+03-31+79  
DIRECTIONAL BORE 676'  
48" MINIMUM DEPTH  
( 2 ) 1.25" HDPE  
PULL CABLE 676'  
( 1 ) 96 CT. F.O.C.

31+70  
PLACE UH-4 HANDHOLE  
E/W ( 1 ) 96 CT F.O.C.  
PLACE 100' SLACK

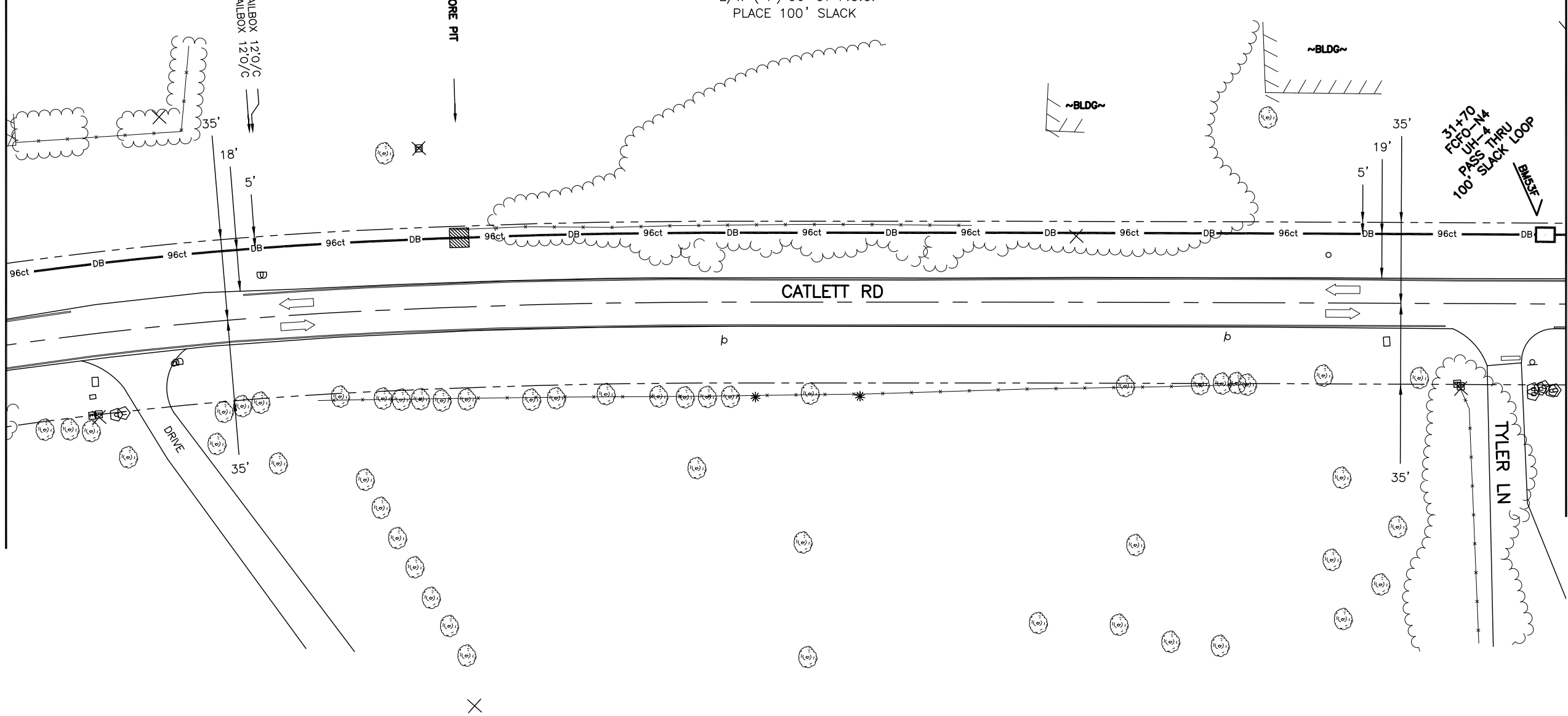
27+00  
PROP. BORE PIT

PWR POLE 1'0"/C  
29+67

POST 9'0"/C  
30+76

PROP. CSF HH  
31+70

31+70  
FCFO-N4  
UH-4  
100' PASS THROUGH  
SLACK LOOP

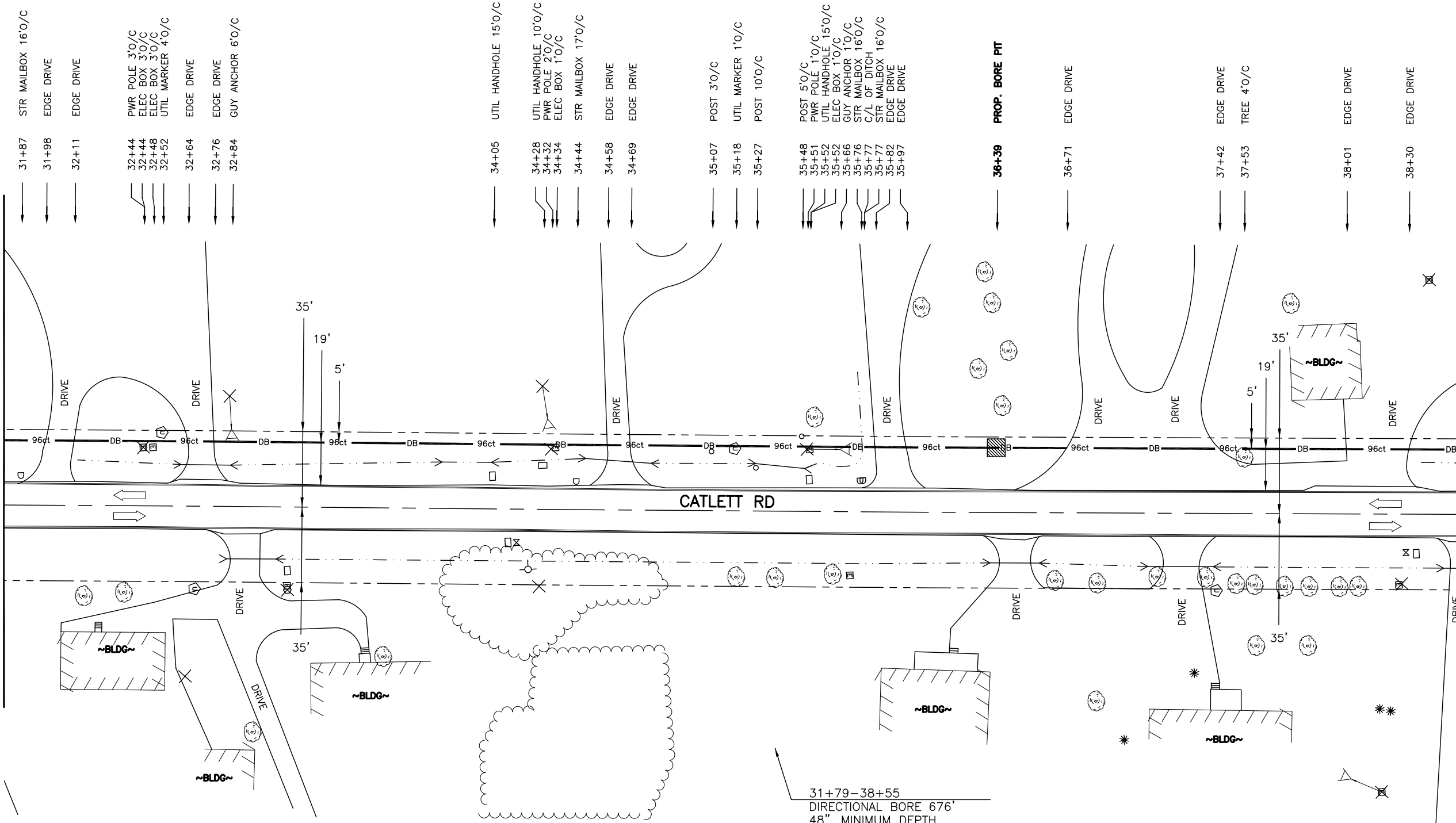




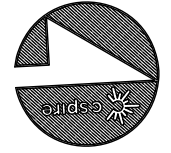
MADISON, MS  
MADISON COUNTY

SEE SHEET 005 TO MATCH STA. 31+79

SEE SHEET 007 TO MATCH STA. 38+55



31+79-38+55  
 DIRECTIONAL BORE 676'  
 48" MINIMUM DEPTH  
 ( 2 ) 1.25" HDPE  
 PULL CABLE 676'  
 ( 1 ) 96 CT. F.O.C.



PROJECT: MS2645 GREYHAWK (MADISON)

PROJECT CITY: MADISON

DATE 4/19/23	DESCRIPTION Construction
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SHEET 006	SCALE 1"=50'
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REVISIONS

REV.	DESCRIPTION	INITIALS	DATE

MATERIAL LIST

ITEM	DESCRIPTION	QUANTITY
1	TOTAL CABLE FT.	676'
2	DIR-BORE CABLE	676'
3	PULL CABLE	0'
4	BURIED SLACK	0'
5	1.25" HDPE	1352'
6	5" HDPE CASING	0'
7	HANDHOLES	0
8	MANHOLES	0
9	SPLICE CLOSURE	0
10	H-POSTS	0
11	GROUND RODS	0
12	MARKER POLES	0
13	MARKER POLES W/TS	0
14	ONT	0
15	BUDI-BOX	0
16	COUPLINGS	2
17	LOCATABLE MULE TAPE	0'
18	DIG/TRENCH CABLE	0'
19	AERIAL CABLE	0
20	AERIAL SLACK	0'
21		

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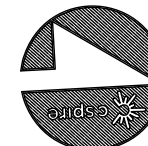
MAP NUMBER

005	006	007
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MADISON, MS  
MADISON COUNTY



PROJECT: MS2645 GREYHAWK (MADISON)

PROJECT CITY: MADISON

DATE: 4/19/23  
DESCRIPTION: Construction

SHEET: 007  
SCALE: 1"=50'

REVISIONS

REV.	DESCRIPTION	INITIALS	DATE

MATERIAL LIST

ITEM	DESCRIPTION	QUANTITY
1	TOTAL CABLE FT.	775'
2	DIR-BORE CABLE	675'
3	PULL CABLE	0'
4	BURIED SLACK	100'
5	1.25" HDPE	1350'
6	5" HDPE CASING	0'
7	HANDHOLES	1
8	MANHOLES	0
9	SPLICE CLOSURE	0
10	H-POSTS	0
11	GROUND RODS	0
12	MARKER POLES	1
13	MARKER POLES W/TS	0
14	ONT	0
15	BUDI-BOX	0
16	COUPLINGS	2
17	LOCATABLE MULE TAPE	0'
18	DIG/TRENCH CABLE	0'
19	AERIAL CABLE	0
20	AERIAL SLACK	0'
21		

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MAP NUMBER

006	007	008
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- 39+07 POST 14'0/C
- 39+15 STR MAILBOX 16'0/C
- 39+17 STR MAILBOX 15'0/C
- 39+18 STR MAILBOX 15'0/C
- 39+20 TREE 6'0/C
- 39+28 EDGE DRIVE
- 39+38 EDGE DRIVE

39+72 EDGE DRIVE

39+91 EDGE DRIVE

40+10 TREE 8'0/C

40+21 STR MAILBOX 18'0/C

40+65 TREE 7'0/C

40+83 TREE 8'0/C

40+97 STR MAILBOX 16'0/C

41+02 TREE 7'0/C

41+12 EDGE DRIVE

41+26 EDGE DRIVE

41+55 TREE 5'0/C

41+65 PROP. BORE PIT

41+72 TREE 4'0/C

41+90 TREE 4'0/C

41+99 TREE 1'0/C

41+99 POST 11'0/C

42+10 TREE 1'0/C

43+48 STR SIGN 11'0/C

43+58 EDGE DRIVE

43+72 EDGE DRIVE

43+85 POST 16'0/C

43+86 STR MAILBOX 16'0/C

43+87 PWR POLE 2'0/C

43+89 STR MAILBOX 16'0/C

43+90 POST 16'0/C

43+92 PROP. CSF HH

44+82 STR MAILBOX 16'0/C

44+83 STR MAILBOX 16'0/C

44+86 STR MAILBOX 15'0/C

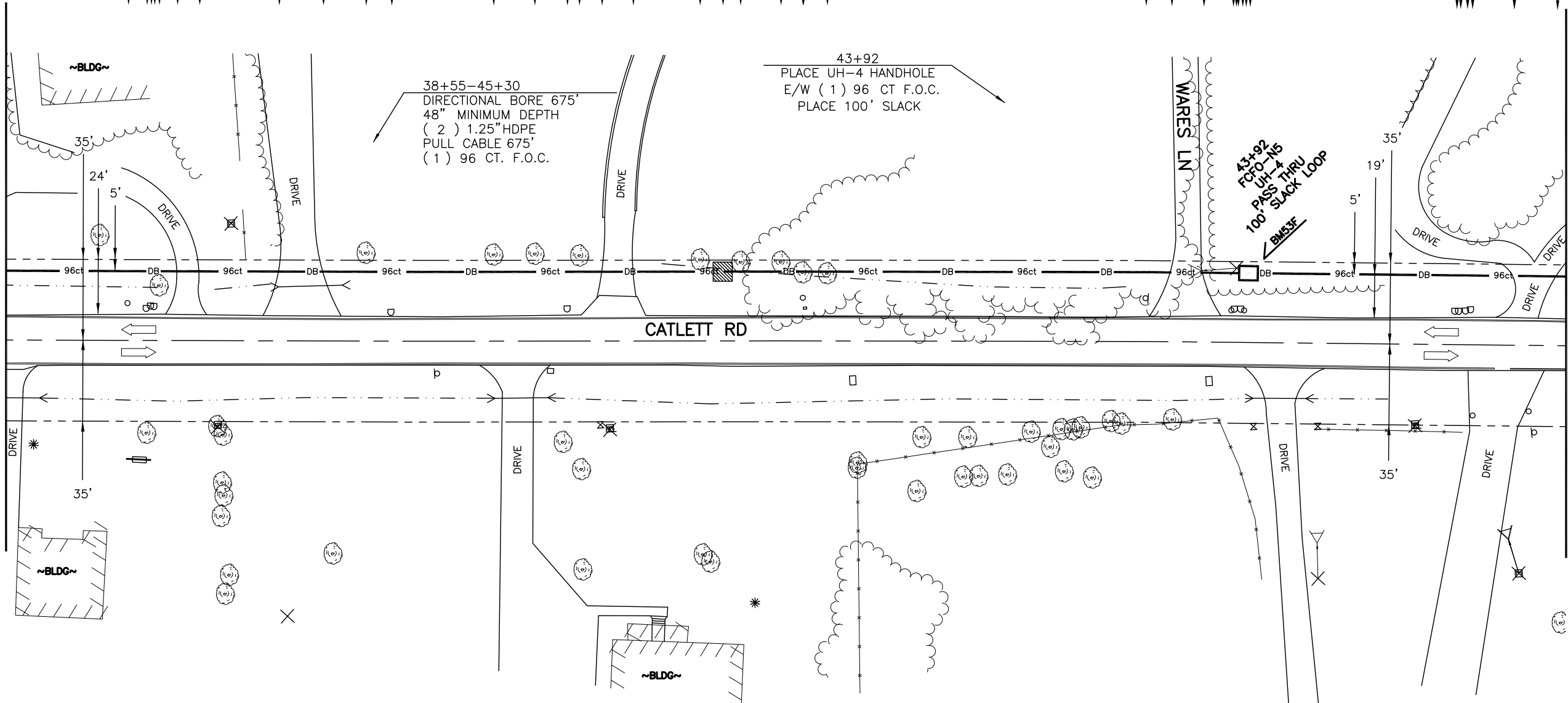
44+88 STR MAILBOX 15'0/C

45+07 EDGE DRIVE

45+25 EDGE DRIVE

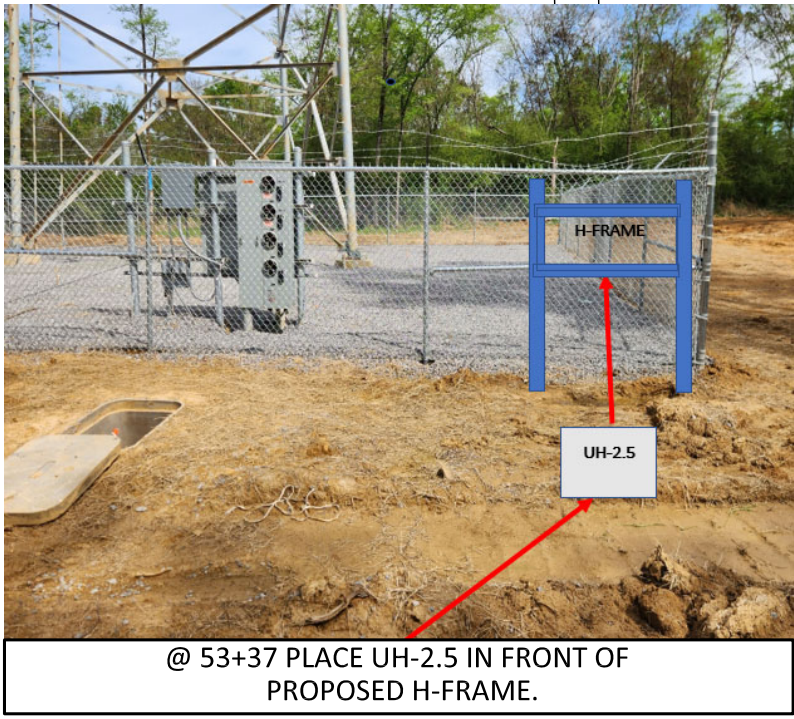
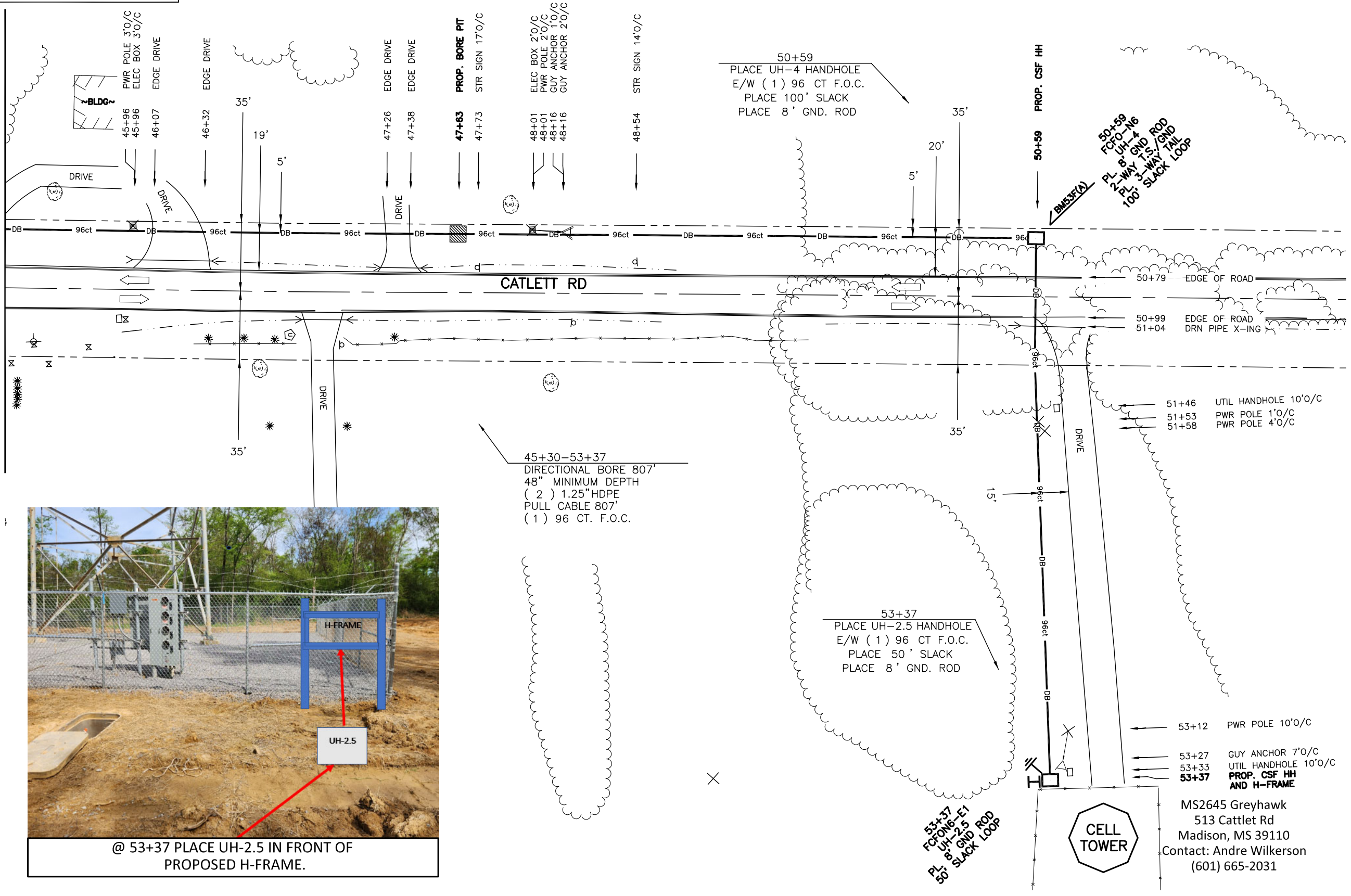
SEE SHEET 006 TO MATCH STA. 38+55

SEE SHEET 008 TO MATCH STA. 45+30

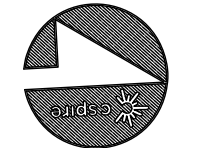


MADISON, MS  
MADISON COUNTY

SEE SHEET 007 TO MATCH STA. 45+30



@ 53+37 PLACE UH-2.5 IN FRONT OF PROPOSED H-FRAME.



PROJECT: MS2645 GREYHAWK (MADISON)  
PROJECT CITY: MADISON  
DATE: 4/19/23 DESCRIPTION: Construction  
SHEET: 008 SCALE: 1"=50'

REVISIONS			
REV.	DESCRIPTION	INITIALS	DATE

MATERIAL LIST		
ITEM	DESCRIPTION	QUANTITY
1	TOTAL CABLE FT.	957
2	DIR-BORE CABLE	807'
3	PULL CABLE	0'
4	BURIED SLACK	150'
5	1.25" HDPE	1614'
6	5" HDPE CASING	0'
7	HANDHOLES	1
8	MANHOLES	0
9	SPLICE CLOSURE	0
10	H-POSTS	0
11	GROUND RODS	1
12	MARKER POLES	0
13	MARKER POLES W/TS	1
14	ONT	0
15	BUDI-BOX	0
16	COUPLINGS	2
17	LOCATABLE MULE TAPE	0'
18	DIG/TRENCH CABLE	0'
19	AERIAL CABLE	0
20	AERIAL SLACK	0'
21		

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20230093

PREPARED FOR  
**cspire**

MAP NUMBER	
007	008

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