BOARD OF SUPERVISORS

MADISON COUNTY, MISSISSIPPI

Department of Engineering Tim Bryan, P.E., PTOE, County Engineer 3137 South Liberty Street, Canton, MS 39046 Office (601) 855-5582 FAX (601) 859-5857

MEMORANDUM

September 16, 2024

To: Casey Brannon, 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/D.B.A.Cspire Utility Permit County Road Name, East Button Wook Lane

The Engineering Department recommends approval of the permit application for Telepak Networks/D.B.A. Cspire for construction of underground fiber-optic internet utility, by method of directional bore, within the right of way county-maintained roads listed below.

- East Button Wook Lane
- Willow Way
- Butternut Drive
- Black Cherry Cove
- Silver Maple Place
- Birch Lane

Revised: 2/14/2019



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

<u> Utility Information:</u>	Utility Name:			
Address:			City/State/Zip:	
Contact Person:			Contact's Phone:	
Project Information:	County Road Name:			se Appendix 1 for additional descriptions)
Beginning Location:		End	ling Location:	
Length of Project:	Sec	tion:	Township:	Range:
Description of Work: $_$				
Check Box if Appendi	x 1 is to be included as a	part of this App	lication	

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.

WITNE	SS the signature of the Applicant this the	da	y of	, 20	<u>_</u> .
		Ву:		(Applicant Signature)	
		Title:			
Note:		• • •		Nadison County Board of Supervisors will not recogni Utility Company shall be fully responsible for all wo	
plans s	•	ements of A Po	licy for T	determined that the drawing, sketches, ar The Accommodation of Utility Facilities with	in
the My	nt-oj-vvay oj un rubiic County Rodus.		APP	PROVED nothy.bryan at 9:22 am, Oct 02, 20	
		Ву	By tim	nothy.bryan at 9:22 am, Oct 02, 20	24
AGREE	D TO AND APPROVED BY:	·		Tim Bryan, P.E. County Engineer	
			1	Date:	
	Madison County Board President				
ENTERI	ED INTO THE MINUTES OF THE BOARD	OF SUPERVISE	ORS OF	MADISON COUNTY, MISSISSIPPI ON TH	IIS
	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:	
Description of Work:				
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:	
Description of Work:				
County Road Name:				
Beginning Location:		Ending Location:		
Length of Project:	Section:	Township:	Range:	
Description of Work:				

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



SAGEFIELD-OAKFIELD ADDITION 2

CITY OF MADISON MADISON COUNTY, MISSISSIPPI 09/04/24



PERMITS REQUIRED

CITY:

N/A

COUNTY:

YES

MDOT:

N/A

FEDERAL : RAILROAD :

N/A N/A

N/A

PRIVATE R/W: N/A

MISC:

SC:

HOUSE COUNT

OCCUPIED: VACANT :

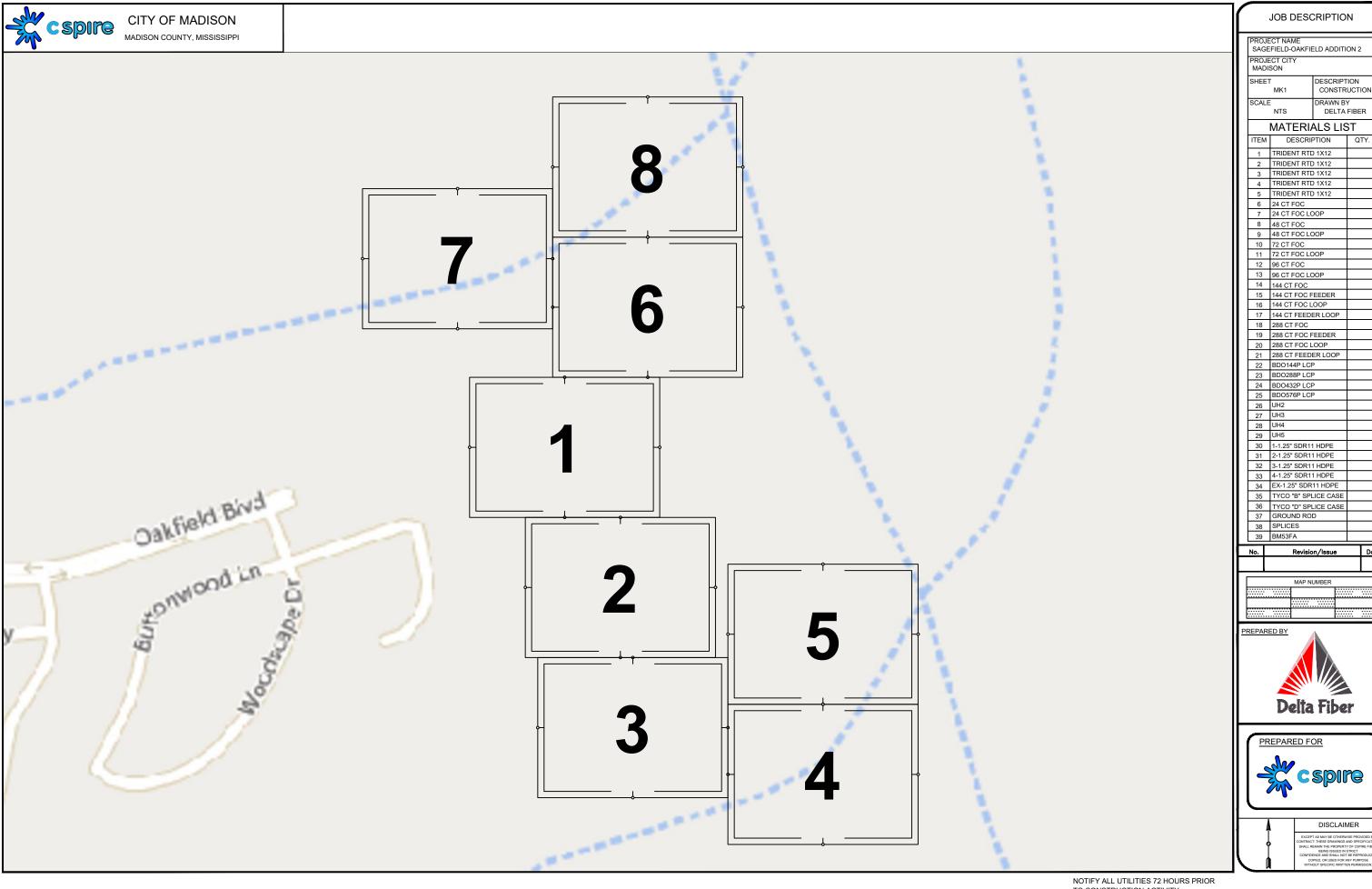
95 0

TOTAL:

95

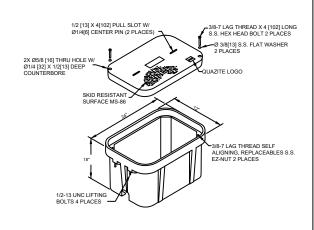
MILEAGE 1.30 LOTS PER MILE 73.08 PREPARED BY:



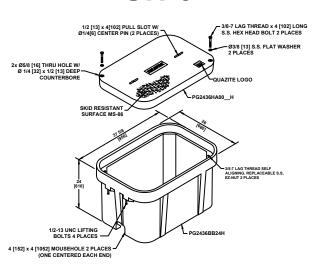


NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY. ONE CALL SYSTEM @ 615-367-1110

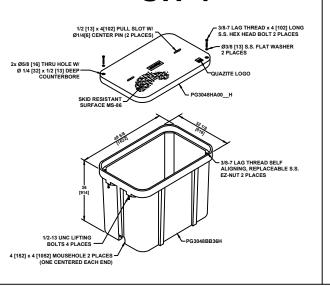
UH-2



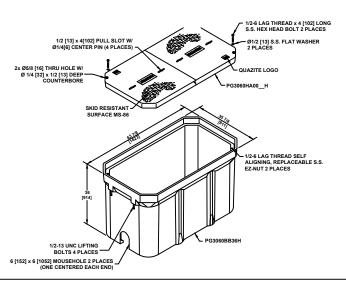
UH-3



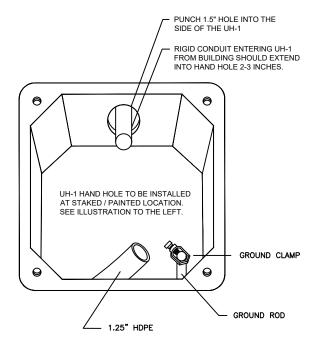
UH-4



UH-5

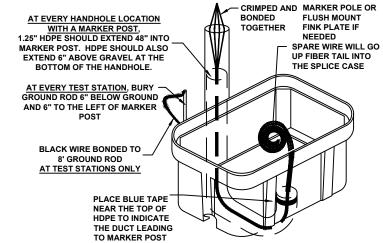


TYPICAL UH-1 / UH-2 HAND HOLE INSTALLATION PROCEDURES AT BUILDING ENTRIES



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 HAND HOLE INSTALLATION



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.	33,500 LBS
UH-4 30x48x36	PG3048Z579	563# 255KG.	33,500 LBS
UH-3 24x36x24	PG2436Z905	284# 129KG.	33,500 LBS

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

NOTES:

- 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 33,500 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

ALL CABLE WILL BE PLACED BY METHOD OF DIRECTIONAL BORE MIN 2' OFF ROW OR EASEMEN @ 42" DOC UNLESS OTHERWISE NOTED.

JOB DESCRIPTION

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	SCALE	NTS	DRAWN B'	-	
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I	ITEM	DESCRI	PTION	QTY.	
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Ш	2	TRIDENT RTD	1X12		
	3	TRIDENT RTD	1X12		
	4	TRIDENT RTD	1X12		
	5	TRIDENT RTD	1X12		
	6	24 CT FOC			
ı	7	24 CT FOC LC	OOP		
ı	8	48 CT FOC			
ı	9	48 CT FOC LOOP			
ı	10	72 CT FOC			
ı	11	72 CT FOC LOOP			
ı	12	96 CT FOC LOOP			
ı	13	96 CT FOC LC	OOP		
ı	14	144 CT FOC			
ı	15	144 CT FOC F			
ı	16	144 CT FOC L			
ı	17	144 CT FEEDI	ER LOOP		
ı	18	288 CT FOC			
ı	19	288 CT FOC FEEDER 288 CT FOC LOOP			
I	20	288 CT FOC LOOP 288 CT FEEDER LOOP			
	21	BDO144P LCF			
	22	BDO144P LCF			
١	24	BDO286F LCF			
П	25	BDO432F LCF			
I	26	UH2			
I	27	UH3			
	28	UH4			
	29	UH5			
	30	1-1.25" SDR11	I HDPE		
I	31	2-1.25" SDR1			
I	32	3-1.25" SDR1	1 HDPE		
۱	33	4-1.25" SDR1	1 HDPE		
	34	EX-1.25" SDR	11 HDPE		
I	35	TYCO "B" SPL	ICE CASE		
I	36	TYCO "D" SPI	ICE CASE		
ı	37	GROUND RO	D		

No. Revision/Issue Date

38 SPLICES 39 BM53FA

MAP NUMBER





DISCLAIMER

EXCEPT AS MAY BE OTHERWISE PRICONTRACT. THESE DRAWNISS AND SPE SHALL REAL REAL STATE OF THE SHALL REAL STATE OF TH

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY. ONE CALL SYSTEM @ 615-367-1110



SYMBOLS KEY

DIRECTIONAL BORE	RAILROAD TRACKS		PROPERTY LINE ————————————————————————————————————
AERIAL CABLE		50'	BACK OF CURB
PLOW OR BURIED CABLE	AUXILLARY TRACKS	-+	WHITE LINE —W/L — W/L —
DIRECTIONAL BORE 5" HDPE	CENTERLINE		RIGHT-OF-WAY LINE ————
PVC OR SPLIT PVC CONDUIT	WOOD LINE		
	DITCH LINE		TAX DISTRICT BOUNDARY
ASTMA 139 GRADE B STEEL	TOP OF SLOPE	TOP OF SLOPE	
JACK AND BORE	TOE OF SLOPE	TOE OF SLOPE	PROBE (DEPTH AS INDACATED)
CORE BORE	AERIAL UTILITY (ELECTRIC)	Е	
EXISTING TELEPAK CABLE	UNDERGROUND UTILITY (TELEPHONE) (PARTIAL CAPSULE INDICATES COVER DEPTH IN INC	CHES) TEL (15")	P.T.F. PERMIT TRACKING FORM IDENTIFIER P.T.F. 187
PROPOSED HANDHOLE EXISTING HANDHOLE	CAUTION NOTES	CAUTION CAUTION CAUTION WATER X-ING WATER X-ING	
HANDHOLE (CABLE IN HDPE)	WATER VALVE	∅ ⋈	
HH (CABLE IN PVC CONDUIT)	WATER METER	H	DELTA FIBER TYPICAL LINETYPES
	GAS VALVE	\Diamond	1-1.25 HDPE(1)1.25 HDPE
HANDHOLE (CABLE IN GSP CONDUIT)	FIRE HYDRANT	- \	2-1.25 HDPE (2)1.25 HDPE (2)1.25 HDPE (2)1.25 HDPE (2)1.25 HDPE (2)1.25 HDPE
MANHOLE	STORM DRAIN	· •	3-1.25 HDPE (3)1.25 HDPE (3)1.25 HDPE (3)1.25 HDPE (3)1.25 HDPE (3)1.25 HDPE (4)1.25 HDPE (4)1.25 HDPE (5)1.25 HDPE
MANHOLE (CABLE IN HDPE)	SEWER MANHOLE	(S)	6-1.25 HDPE (6)1.25 HDPE (6)1.25 HDPE (6)1.25 HDPE (6)1.25 HDPE (6)1.25 HDPE
MANHOLE (CABLE IN PVC CONDUIT)	CULVERT	>	12CT FOC ———————————————————————————————————
MANHOLE (CABLE IN BSP/GSP CONDUIT)			24CT FOC — 48CT FOC —
H-FRAME	BOX CULVERT		72CT FOC —
BORE PIT	CITY, COUNTY OR STATE BOUNDARY LINE		96CT FOC — 144CT FOC —
LIGHTNING ARRESTOR	R.R. CROSSING SIGNAL	PUSH BRACE 30'-5-84 PR	288CT FOC — 288CT
ARRESTOR	R.R. CROSSING SIGNAL	PUSH BRACE PB	(2)288CT FOC ———————————————————————————————————
AC/DC FILTER PROTECTION AC/DC FILTER PROTECTION	R.R. SIGNAL ARM	JOINT USE POLE	1x4 TRIDENT — 1x4
ALUMINUM HUB STYLE MARKER	U/G TRANSFORMER	TELEPHONE POLE	1x8 TRIDENT
STEEL MARKER	STREET/SIGNAL LIGHT O	CONCRETE POLE	1x12 TRIDENT ——1x12 ——1
FLAT COMPOSOLITE MARKER	PARKING METER \triangle	STEEL POLE S	RIGHT OF WAY — RW — — — —
TUBULAR MARKER	STEEL/WOOD POST 0	POWER POLE X	DRIVEWAY —
RIGHT-OF-WAY MARKER	sign d	TRANSFORMER POLE	EDGE OF PAVEMENT
	FENCE LINE		DROPS TO HOUSES — — — — — — — — —
RIGHT-OF-WAY PIN	TELEPHONE/CATV PED	GROUND WIRE I	
MILE POST MARKER	TREE	<u> </u>	AERIAL IMAGES PROPERTY LINE ————————————————————————————————————
NOTE: DASHED = (NOT FOUND IN FIELD)	визн	BOND AND GROUND B&G	UTILITY EASEMENT — — — UTILESMT — — UTILESMT
	<i>1</i> V.		SIDEWALK —

JOB DESCRIPTION

PROJECT NAME SAGEFIELD-OAKFIELD ADDITION 2 PROJECT CITY MADISON SHEET DESCRIPTION LEGEND CONSTRUCTION NTS DELTA FIBER MATERIALS LIST ITEM DESCRIPTION 1 TRIDENT RTD 1X12 2 TRIDENT RTD 1X12 3 TRIDENT RTD 1X12 4 TRIDENT RTD 1X12 5 TRIDENT RTD 1X12 6 24 CT FOC 7 24 CT FOC LOOP 8 48 CT FOC 9 48 CT FOC LOOP 10 72 CT FOC LOOP 12 96 CT FOC 13 96 CT FOC LOOP 14 144 CT FOC 15 144 CT FOC FEEDER 16 144 CT FOC LOOP 17 144 CT FEEDER LOOP 18 288 CT FOC 18 288 CT FOC
19 288 CT FOC LOOP
20 288 CT FOC LOOP
21 288 CT FEDER LOOP
22 BD0144P LCP
23 BD0288P LCP
24 BD0432P LCP
25 BD0576P LCP
26 UH2
27 UH3
28 LIH4 28 UH4 29 UH5 30 1-1.25" SDR11 HDPE 31 2-1.25" SDR11 HDPE 32 3-1.25" SDR11 HDPE 33 4-1.25" SDR11 HDPE
34 EX-1.25" SDR11 HDPE
35 TYCO "B" SPLICE CASE
36 TYCO "D" SPLICE CASE
37 GROUND ROD 38 SPLICES 39 BM53FA Revision/Issue

MAP NUMBER

PREPARED BY

Delta Fiber



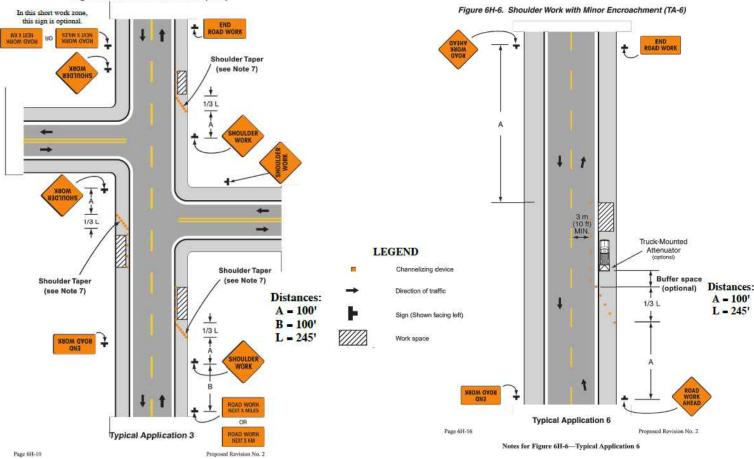
DISCLAIMER

EXCEPT AS MAY BE OTHERWISE PROVIDED B

CONTRACT. THESE DRAWINGS AND SPECIFICATE
BALL REMAIN THE PROPERTY OF CEPTIER FIBI
BENG ISSUED IN STRICT
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COMPENDE AND DIVILLA TO THE REPRODUCE
COMED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WINTERLY PRIMISSION.

ALL CABLE WILL BE PLACED BY METHOD OF DIRECTIONAL BORE MIN 2' OFF ROW OR EASEMEN' @ 42" DOC UNLESS OTHERWISE NOTED.

CITY OF MADISON MADISON COUNTY, MISSISSIPPI Figure 6H-3. Work on Shoulders (TA-3) In this short work zone, this sign is optional WYX JOH MION CYCH HO ROAD WORK STHINK JUNE MION CYCH HO ROAD WORK



CONSTRUCTION SIGNS

FLUORESCENT ORANGE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS







NOTE:
W20-1 SIGNS ARE REQUIRED
WHEN SHOULDER WORK IS
PERFORMED WITH MINOR
ENCROACHMENT TO TRAVEL
LANE OR FLAGGING
OPERATIONS. SEE TCP-2,
FIGURE 6H-6.

DISTANCE BETWEEN SIGNS						
ROAD TYPE A B C						
URBAN (35 MPH OR LESS)	100 FT.	100 FT.	100 FT.			
URBAN (40 - 70 MPH)	350 FT.	350 FT.	350 FT.			
RURAL	500 FT.	500 FT.	500 FT.			
EXPRESSWAY / FREEWAY	1000 FT.	1500 FT.	2640 FT.			

NOTES:

- 1. ALL TRAFFIC CONTROL DEVICES ON THIS PROJECT SHALL COMPLY WITH PART VI OF THE MUTCD (LATEST EDITION).
- 2. SIGNS ARE ONLY REQUIRED WHILE CONTRACTOR IS WORKING. THEY SHALL BE INSTALLED PRIOR TO WORK COMMENCING EACH DAY AND REMOVED WHEN WORK IS COMPLETED AT THE END OF THE DAY.
- 3. SIGNS MAY BE MOUNTED ON TRIPODS. THE LOCATION AND SPACING OF SIGNS, AS SHOWN ON THESE TRAFFIC CONTROL PLANS, ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT FIELD CONDITIONS.
- 4. CHANNELIZING DEVICES ARE NOT SHOWN ON THIS PLAN, BUT ARE REQUIRED AROUND ACTIVE WORK ZONES (SEE TCP-2).

WORK ON SHOULDERS

Notes for Figure 6H-3—Typical Application 3

Work on Shoulders

GUIDANCE:

 A SHOULDER WORK sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.

OPTION:

- 2. The workers symbol signs may be used instead of SHOULDER WORK signs.
- The SHOULDER WORK AHEAD sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
- 4. For short-duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated rotating lights or strobe lights is used.
- 5. Vehicle hazard warning signals may be used to supplement rotating lights or strobe lights.

STANDARD:

- 6. Vehicle hazard warning signals shall not be used instead of the vehicle's rotating lights or strobe lights.
- 7. When paved shoulders having a width of 2.4 m (8ft) or more are closed, at least one advance warning sign shall be used. In addition, channelizing devices shall be used to close the shoulder in advance to delineate the beginning of the work space and direct vehicular traffic to remain within the traveled way.

SHOULDER WORK WITH MINOR ENCROACHMENT

GUIDANCE:

Shoulder Work with Minor Encroachmen

- 1. All lanes should be a minimum of 3 m (10ft) in width as measured to the near face of the channelizing devices.
- The treatment shown should be used on a minor road having low speeds. For higher-speed traffic conditions, a lane closure should be used.

OPTION:

- For short-term use on low-volume, low-speed roadways with vehicular traffic that does not include longer and wider heavy commercial vehicles, a minimum lane width of 2.7 m (9ft) may be used.
- 4. Where the opposite shoulder is suitable for carrying vehicular traffic and of adequate width, lanes may be shifted by use of closely spaced channelizing devices, provided that the minimum lane width of 3 m (10ft) is maintained.
- 5. Additional advance warning may be appropriate, such as ROAD NARROWS sign.

- 6. Temporary traffic barriers may be used along with the work space.
- 7. The shadow vehicle may be omitted if a taper and channelizing devices are used.
- 8. A truck-mounted attenuator may be used on the shadow vehicle.
- For short-duration work, the taper and channelizing devices may be omitted if a shadow vehicle with activated rotating lights or strobe lights is used.
- 10. Vehicle hazard warning signals may be used to supplement rotating lights or strobe lights.

STANDARD:

11. Vehicle hazard warning signals shall not be used instead of the vehicle's rotating lights or strobe lights.

JOB DESCRIPTION

		ELD ADDITI	ON 2	
SHEET	F	DESCRIPT	ION	
	TC1	-		
SCALE		DRAWN B	Y	
		DELTA	FIBER	
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ITEM	DESCRI	PTION	QTY.	
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4	TRIDENT RTD	1X12		
5	TRIDENT RTD	1X12		
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21	288 CT FEED	ER LOOP		
22	BDO144P LCF)		
23	BDO288P LCF			
24	BDO432P LCF)		
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-	UH2			
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	SAGE PROJE MADI: SHEET SCALE ITEM 1 2 3 4 4 5 5 6 7 8 9 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 29 30 31 32 24 33 34 35 36 37 38	PROJECT CITY MADISON SHEET TC1 SCALE MATERI/ ITEM DESCRII 1 TRIDENT RTI 2 TRIDENT RTI 3 TRIDENT RTI 4 TRIDENT RTI 5 TRIDENT RTI 6 24 CT FOC 7 24 CT FOC LC 10 72 CT FOC LC 11 72 CT FOC LC 11 72 CT FOC LC 11 4 144 CT FOC LC 12 96 CT FOC 13 96 CT FOC LC 14 144 CT FOC LC 15 144 CT FOC LC 16 144 CT FOC LC 17 144 CT FOC LC 18 288 CT FOC LC 19 288 CT FOC LC 20 288 CT FOC LC 21 288 CT FOC LC 22 BDO144P LC 23 BDO28P LC 24 BDO432P LC 25 BDO56P LC 26 UH2 27 UH3 28 UH4 29 UH5 30 1-1.25" SDR1" 31 2-1.25" SDR1" 31 2-1.25" SDR1" 31 2-1.25" SDR1" 33 4-1.25" SDR1" 31 2-1.25" SDR1" 33 4-1.25" SDR1" 31 7 GROUND RO 38 SPLICES	SAGEFIELD-OAKFIELD ADDITI PROJECT CITY MADISON SHEET TC1 SCALE DRAWN B' DELTA MATERIALS LIS ITEM DESCRIPTION 1 TRIDENT RTD 1X12 2 TRIDENT RTD 1X12 3 TRIDENT RTD 1X12 4 TRIDENT RTD 1X12 5 TRIDENT RTD 1X12 6 24 CT FOC 7 24 CT FOC 10 72 CT FOC 11 72 CT FOC 11 72 CT FOC 12 96 CT FOC 13 96 CT FOC LOOP 14 144 CT FOC FEEDER 16 144 CT FOC FEEDER 16 144 CT FOC FEEDER 17 144 CT FOC FEEDER 18 288 CT FOC LOOP 19 288 CT FOC LOOP 21 288 CT FOC FEEDER 20 288 CT FOC FEEDER 20 288 CT FOC FEEDER 21 288 CT FOC FEEDER 22 288 CT FOC FEEDER 23 BDO288P LCP 24 BOO432P LCP 25 BDO576P LCP 26 UH2 27 UH3 28 UH4 29 UH5 30 1-1.25" SDR11 HDPE 31 2-1.25" SDR11 HDPE 33 4-1.25" SDR11 HDPE 34 EX-1.25" SDR11 HDPE 35 TYCO 'B' SPLICE CASE 36 TYCO 'D' SPLICE CASE 37 GROUND ROD 38 SPLICES	

No.	Revision/Issue	Date

MAP NUMBER	





DISCLAIMER

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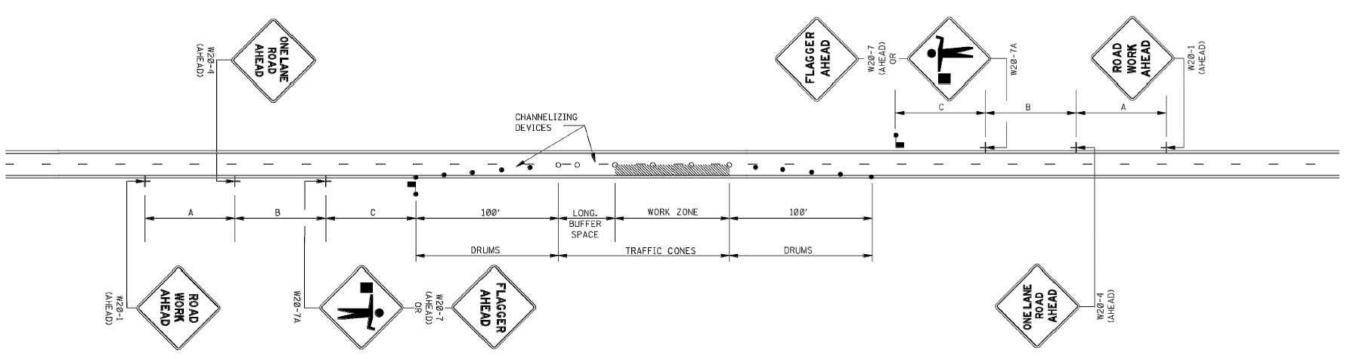
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GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE. FLAGGER STATIONS SHALL BE LOCATED SUCH THAT APPROACHING VEHICLES WILL HAVE SUFFICIENT DISTANCE TO STOP. VALUES IN STOPPING SIGHT DISTANCE COLUMN MAY BE USED AS A MINIMUM FOR THIS DISTANCE.

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		LONGITUDINAL BUFFER SPACE	STOPPING SIGHT	
mph	ALONG TAPER LANE LINE & WORK ZONE		(ft)	DISTANCE	
25	20	50	55	155	
30	20	60	85	200	
35	20	70	120	250	
40	20	80	170	305	
45	20	90	220	360	
50	20	100	280	425	
55	20	110	335	495	
60	20	120	415	570	
65	20	130	485	645	

NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

- 2. ALL CHANNELIZING DEVICES SHALL BE A MINIMUM OF 28" IN HEIGHT.
- 3. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 36" x 36" AND BLACK COPY ON FLUORESCENT ORANGE SHEETING.
- 4. WHEN WORK ZONE IS NO LONGER NEEDED, ALL SIGNS SHALL BE COVERED OR REMOVED AND ALL CHANNELIZING DEVICES SHALL BE MOVED TO THE SHOULDER EDGE.
- 5. ADDITIONAL FLAGGERS MAY BE NEEDED AS DIRECTED BY THE ENGINEER.
- 6. WHEN WORK IS REQUIRED AT NIGHT, FLAGGER STATIONS SHALL BE ILLUMINATED.
- 7. CHANNELIZING DEVICE TYPES FOR:
 A. APPROACH AND EXIT TAPERS RETROREFLECTIVE PLASTIC DRUMS
 B. ALONG LANE LINE AND WORK ZONE TRAFFIC CONES (28" HEIGHT)
- 8. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

JOB DESCRIPTION

34 35 36 37 38 39	TYCO "B" S	PLICE CASE		
35 36 37	TYCO "B" S TYCO "D" S GROUND R SPLICES	PLICE CASE		
35 36	TYCO "B" S	PLICE CASE		
35	TYCO "B" S	PLICE CASE		
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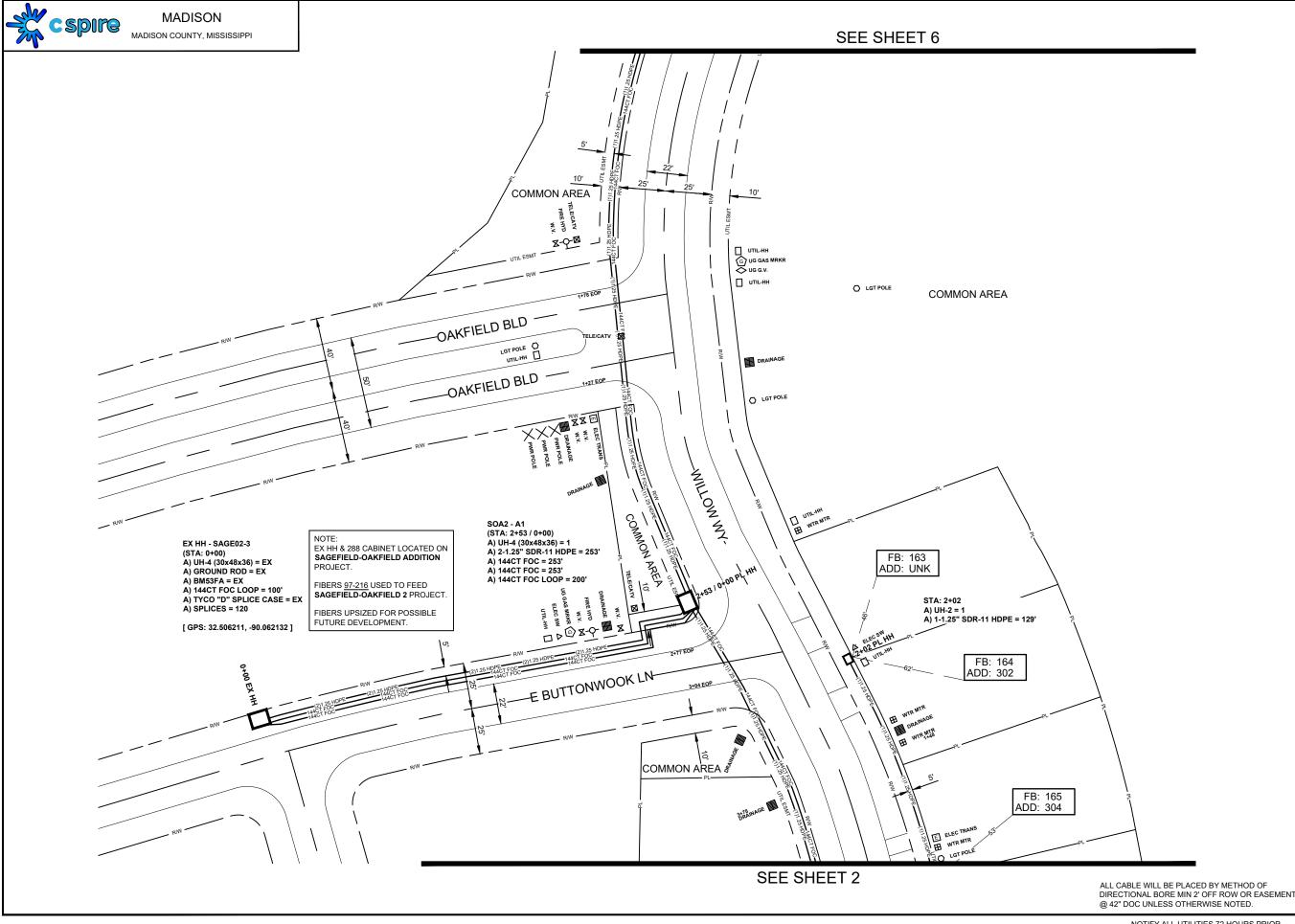
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34	EX-1.25" SDR		
33	4-1.25" SDR11		
32	3-1.25" SDR11		
31	2-1.25" SDR11		253
30	1-1.25" SDR11		129
29	UH5		
28	UH4		1
27	UH3		
26	UH2		1
25	BDO576P LCF	,	
24	BDO432P LCF		
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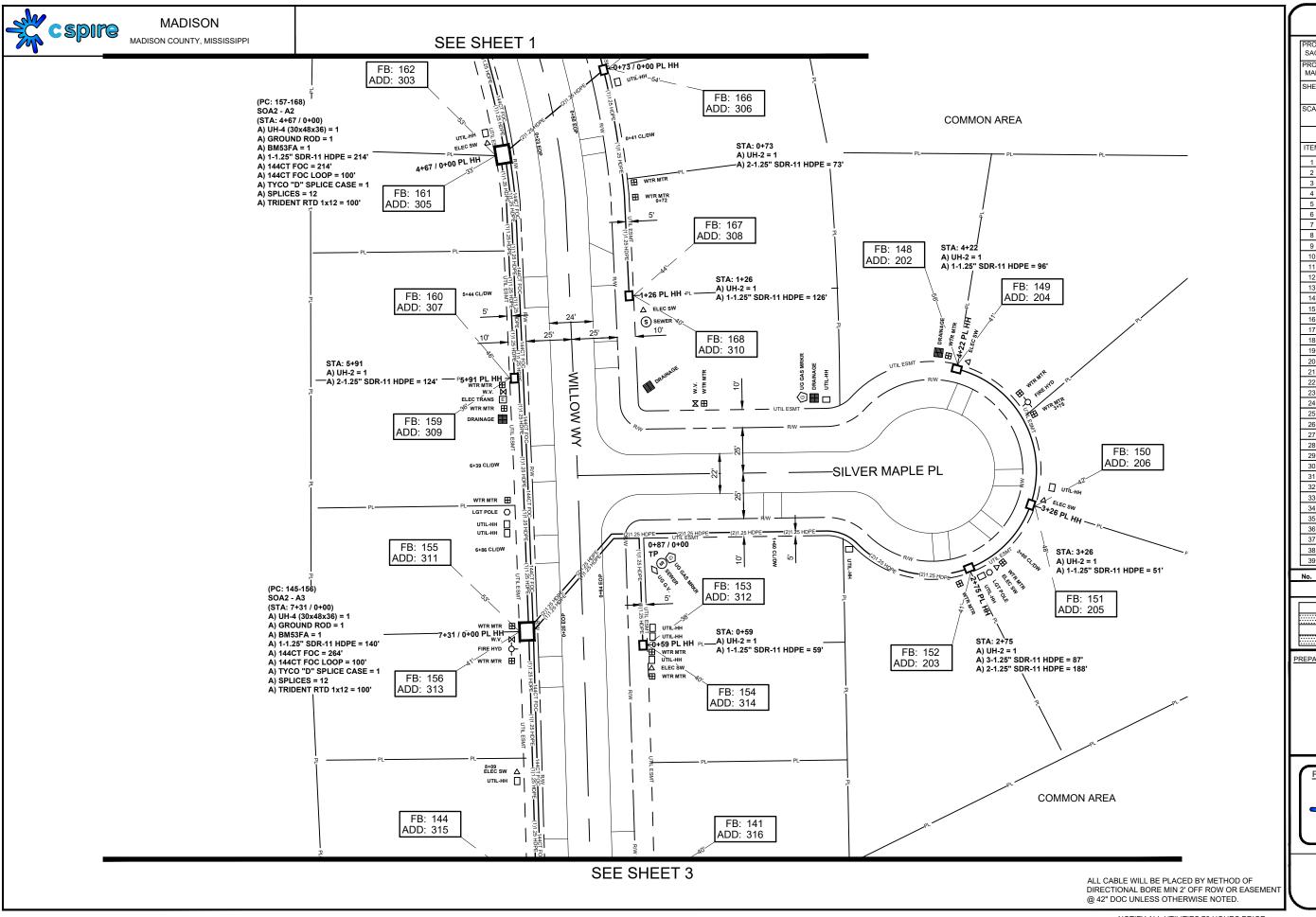




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12	96 CT FOC		
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26	UH2		
27	UH3	· · · · · · · · · · · · · · · · · · ·	
28	UH4		2
29	UH5		
30	1-1.25" SDR11	HDPE	686
31	2-1.25" SDR11		385
32	3-1.25" SDR11	I HDPE	87
33	4-1.25" SDR11		
34	EX-1.25" SDR		
35	TYCO "B" SPL	ICE CASE	
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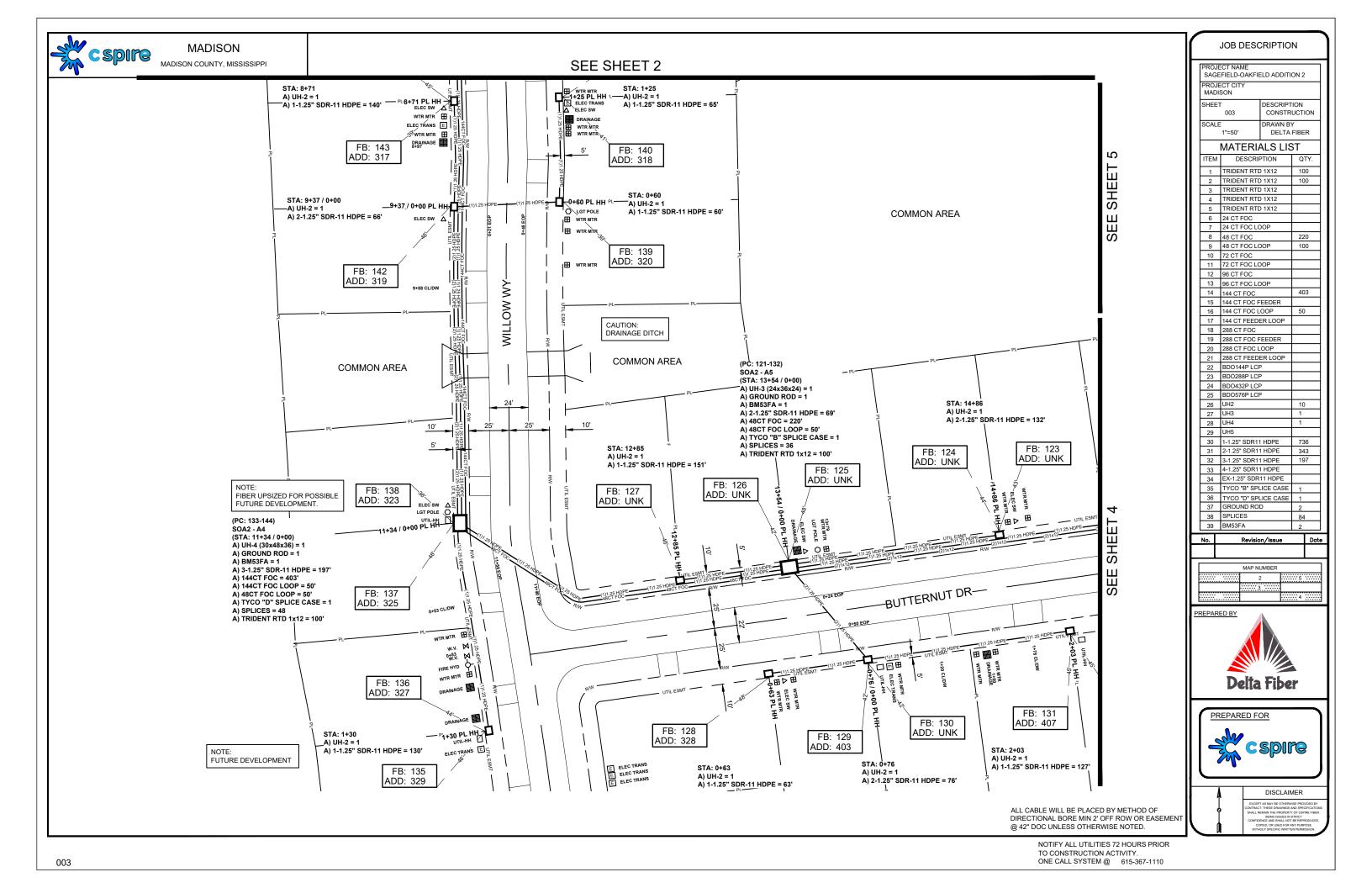
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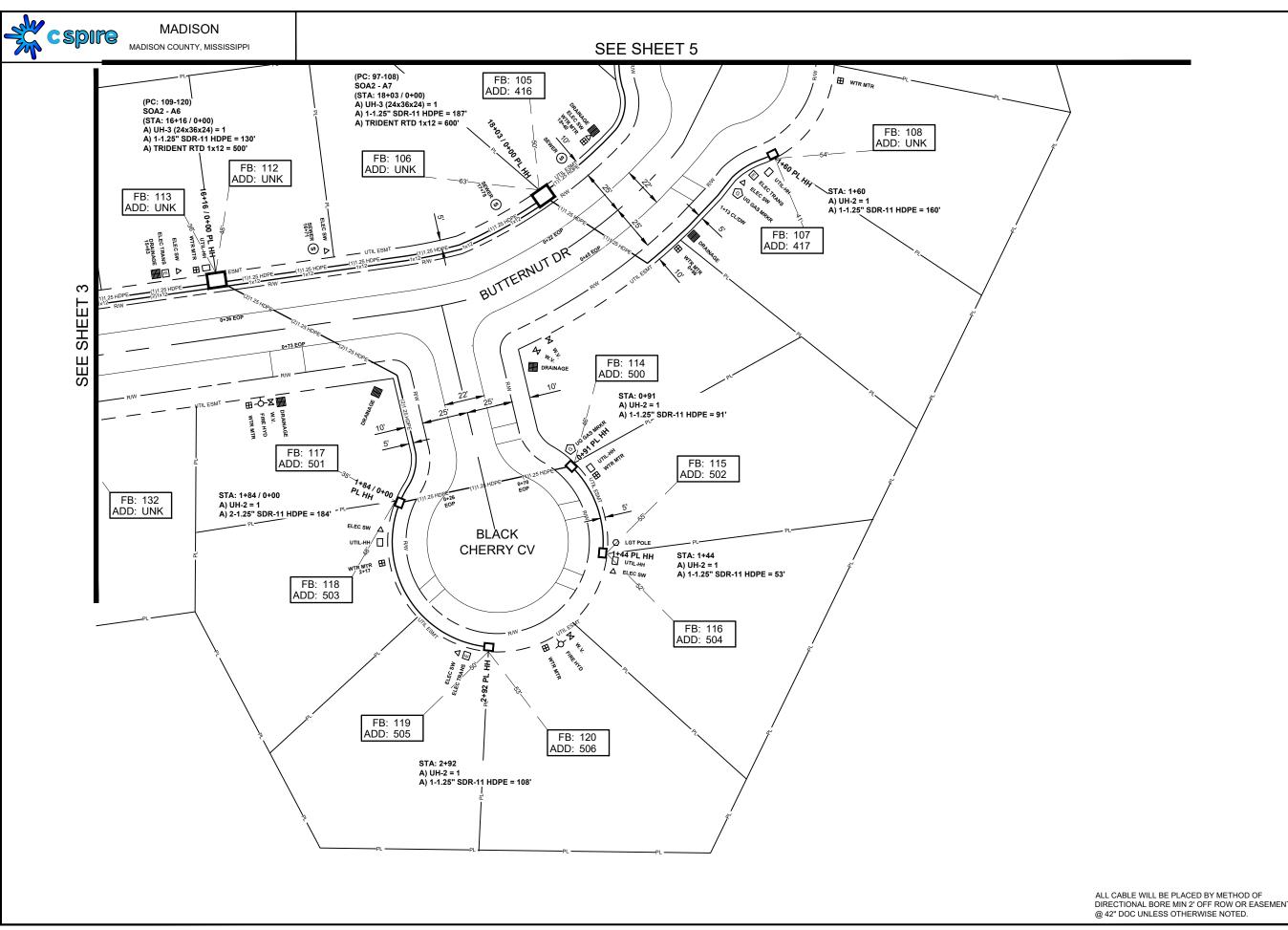




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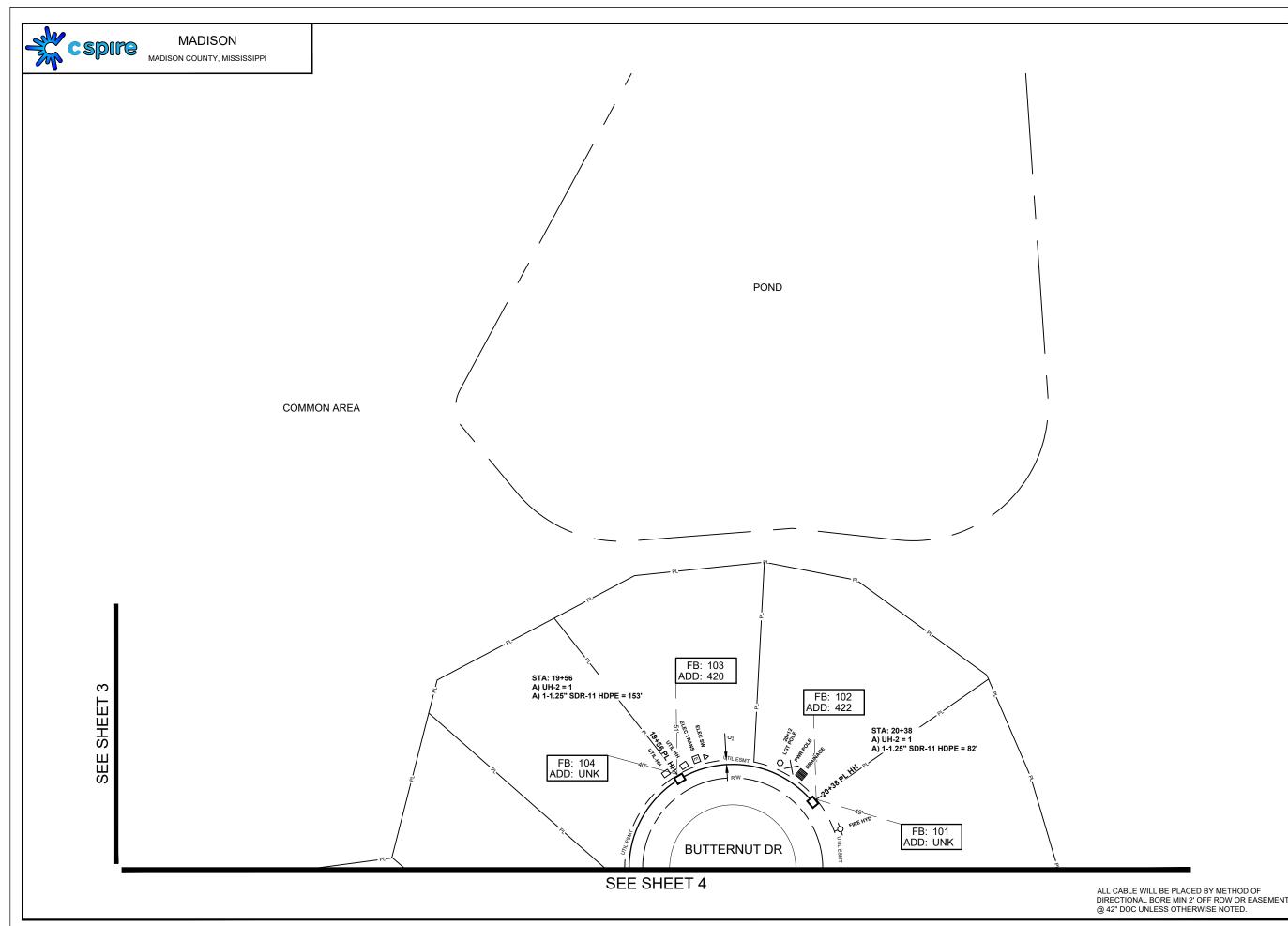
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29	UH5		
30	1-1.25" SDR11 HDPE	235	
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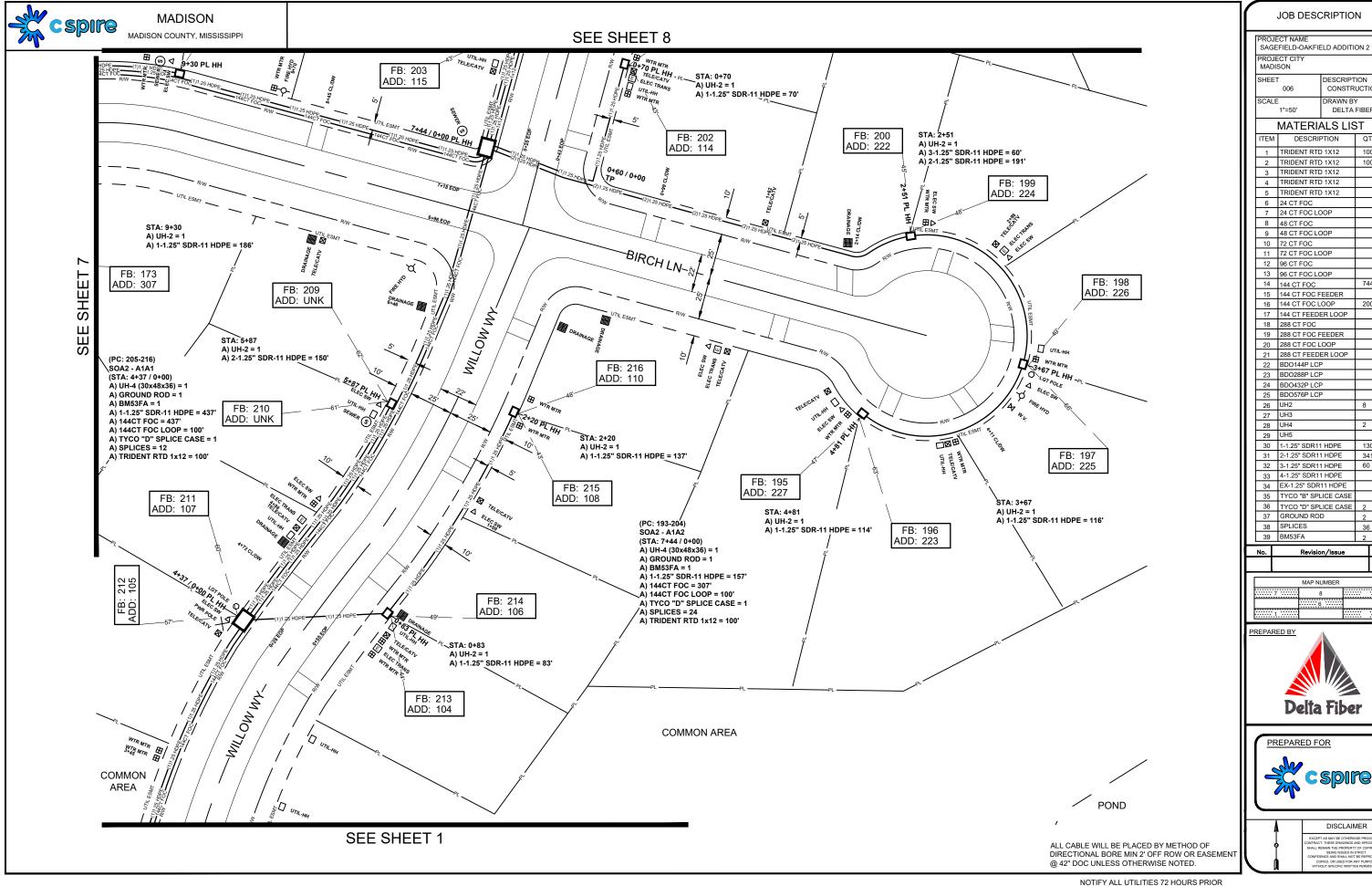
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JOB DESCRIPTION

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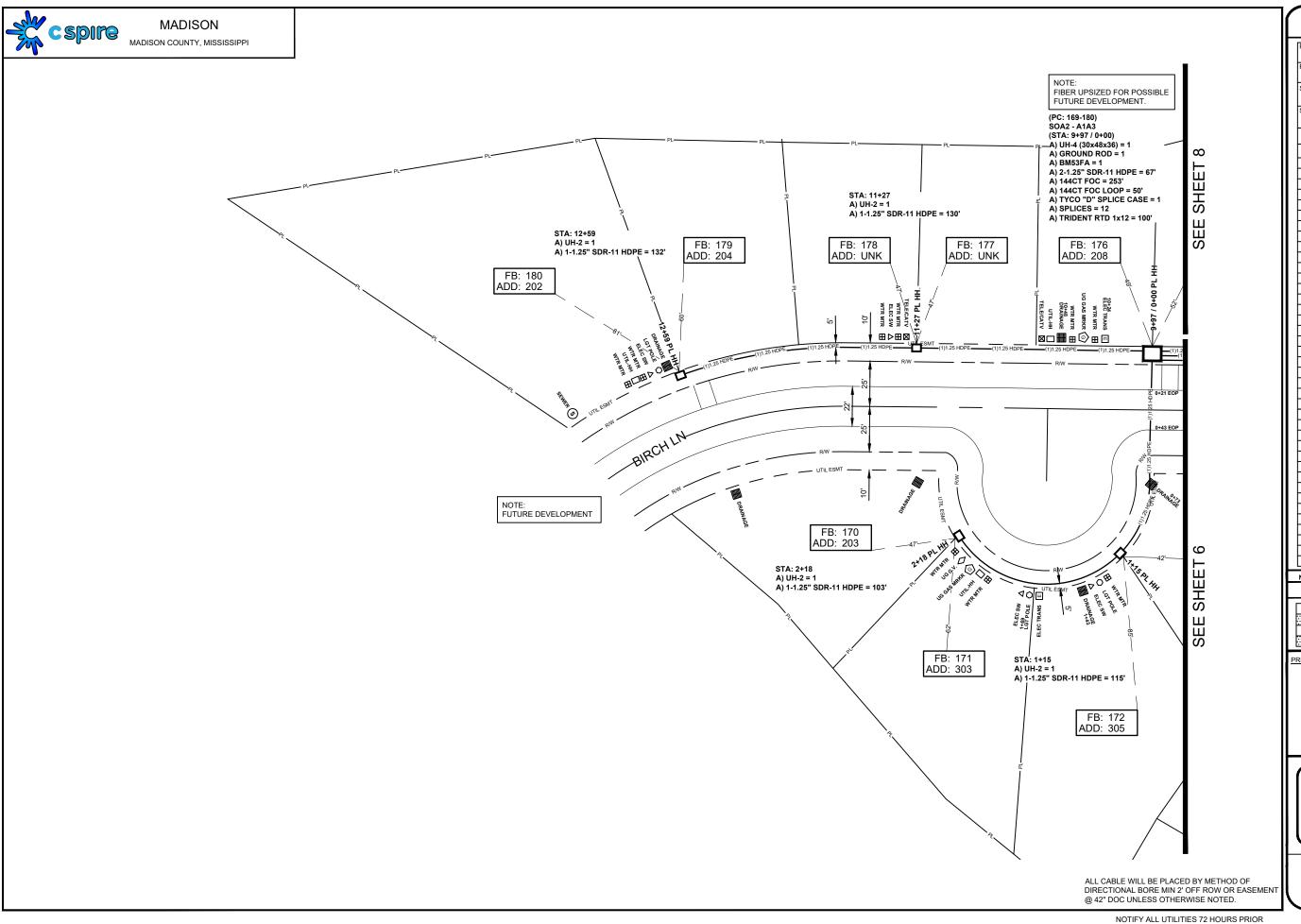
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TO CONSTRUCTION ACTIVITY. ONE CALL SYSTEM @ 615-367-1110



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10	72 CT FOC		
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12	96 CT FOC	96 CT FOC	
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14	144 CT FOC		253
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18	288 CT FOC		
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20	288 CT FOC LOOP		
21	288 CT FEEDE	288 CT FEEDER LOOP	
22	BDO144P LCP	BDO144P LCP	
23	BDO288P LCP		
24	BDO432P LCP		
25	BDO576P LCP		
26	UH2		4
27	UH3		
28	UH4	UH4 1	
29	UH5		
30	1-1.25" SDR11	HDPE	480
31	2-1.25" SDR11	HDPE	67
32	3-1.25" SDR11	HDPE	
33	4-1.25" SDR11	HDPE	
34	EX-1.25" SDR1	1 HDPE	
35	TYCO "B" SPL	ICE CASE	
36	TYCO "D" SPL	ICE CASE	1
37	GROUND ROD)	1
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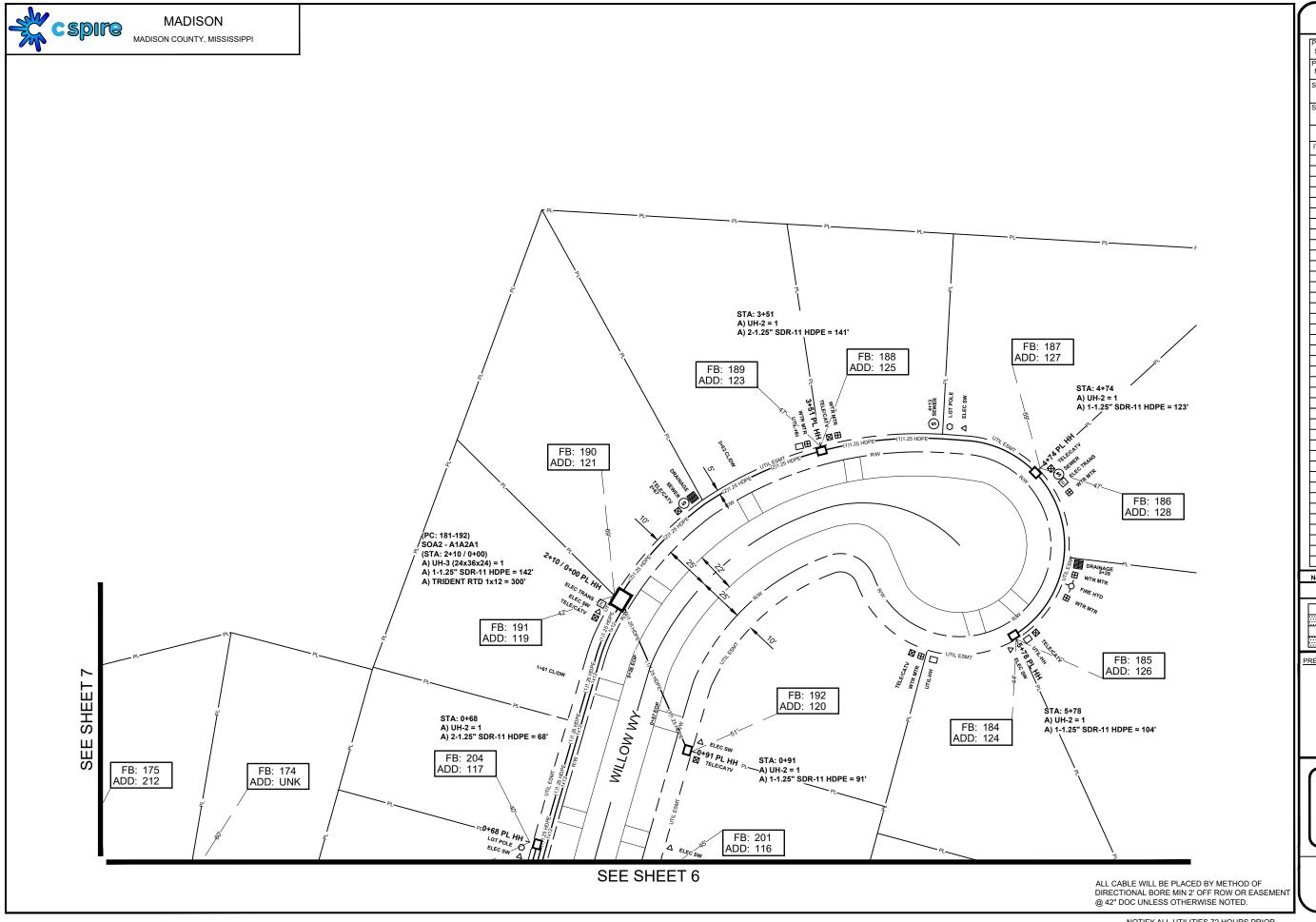
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26	UH2		5
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30	1-1.25" SDR11		460
31	2-1.25" SDR1		209
32	3-1.25" SDR1		
33	4-1.25" SDR1		
34	EX-1.25" SDR		
35	TYCO "B" SPI		
36	TYCO "D" SPI		
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38	SPLICES		
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(PC: 181-192) SOA2 - A1A2A1 (STA: 2+10 / 0+00) A) UH-3 (24x36x24) = 1 A) TRIDENT RTD 1x12 = 300' NOTE: FIBER UPSIZED FOR POSSIBLE FUTURE DEVELOPMENT. (PC: 169-180) SOA2 - A1A3 (STA: 9+97 / 0+00) A) UH-4 (30x48x36) = 1 A) 144CT FOC = 253' A) TYCO "D" SPLICE CASE = 1 A) SPLICES = 12 A) TRIDENT RTD 1x12 = 100' (PC: 193-204)
SOA2 - A1A2
(STA: 7+44 / 0+00)
A) UH-4 (30x48x36) = 1
A) 144CT FOC = 307'
A) TYCO "D" SPLICE CASE = 1
A) SPLICES = 24
A) TRIDENT RTD 1x12 = 100' 144CT FOC-169-180 -144CT FOC (PC: 205-216) SOA2 - A1A1 (STA: 4+37 / 0+00) 169-204 A) UH-4 (30x48x36) = 1 A) 144CT FOC = 437' A) TYCO "D" SPLICE CASE = 1 A) SPLICES = 12 A) TRIDENT RTD 1x12 = 100' 144CT FOC-169-216 NOTE: EX HH & 288 CABINET LOCATED ON SAGEFIELD-OAKFIELD ADDITION FIBERS 97-216 USED TO FEED SAGEFIELD-OAKFIELD 2 PROJECT. -OAKFIELD BLD--OAKFIELD BLD-FIBERS UPSIZED FOR POSSIBLE FUTURE DEVELOPMENT. 144CT FOC SOA2 - A1 (STA: 2+53 / 0+00) A) UH-4 (30x48x36) = 1 A) 144CT FOC = 253' A) 144CT FOC = 253' 169-216 144CT FOC~ (STA: 0+00)
A) UH-4 (30x48x36) = EX
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A) SPLICES = 120 [GPS: 32.506211, -90.062132] (PC: 157-168) SOA2 - A2 (STA: 4+67 / 0+00) A) UH-4 (30x48x36) = 1 A) 144CT FOC = 214' A) TYCO "D" SPLICE CASE = 1 A) SPLICES = 12 A) TRIDENT RTD 1x12 = 100' 144CT FOC-97-168 —144CT FOC

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SEE SCHEMATIC 2

ALL CABLE WILL BE PLACED BY METHOD OF DIRECTIONAL BORE MIN 2' OFF ROW OR EASEMEN' @ 42" DOC UNLESS OTHERWISE NOTED.

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17	144 CT FEEDE	ER LOOP	
18	288 CT FOC		
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23	BDO288P LCF	•	
24	BDO432P LCF		
25	BDO576P LCF	•	
26	UH2		
27	UH3		
28	UH4		
29	UH5		
30	1-1.25" SDR11		
31	2-1.25" SDR11		
32	3-1.25" SDR11		
33	4-1.25" SDR11		
34	EX-1.25" SDR		
35	TYCO "B" SPL	ICE CASE	
36	TYCO "D" SPL		
37	GROUND ROI	D	
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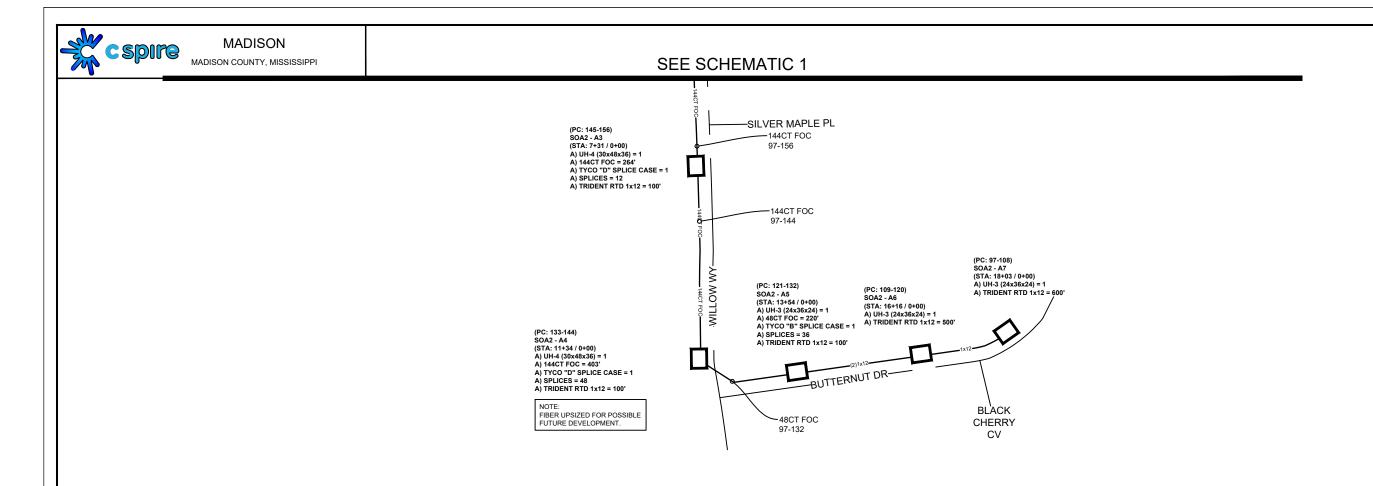




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ONE CALL SYSTEM @ 615-367-1110



	CT NAME		
	FIELD-OAKFIE	ELD ADDITI	ON 2
PROJE MADI:	ECT CITY SON		
SHEET	Г	DESCRIPT	ION
SCH	EMATIC 002	CONSTR	UCTION
SCALE		DRAWN B	Y
	NTS	DELTA	
	MATERIA	ALS LIS	ST
ITEM	DESCRI	PTION	QTY.
1	TRIDENT RTD 1X12		
2	TRIDENT RTD	1X12	
3	TRIDENT RTD	1X12	
4	TRIDENT RTD	1X12	
5	TRIDENT RTD	1X12	
6	24 CT FOC		
7	24 CT FOC LC	OOP	
8	48 CT FOC		
9	48 CT FOC LO	OOP	
10	72 CT FOC		
11	72 CT FOC LC	OOP	
12	96 CT FOC		
13	96 CT FOC LC	OOP	
14	144 CT FOC		
15	144 CT FOC F	EEDER	
16	144 CT FOC L	.OOP	
17	144 CT FEEDI	ER LOOP	
18	288 CT FOC		
19	288 CT FOC F	EEDER	
20	288 CT FOC L		
21	288 CT FEED	ER LOOP	
22	BDO144P LCF		
23	BDO288P LCF)	
24	BDO432P LCF		
25	BDO576P LCF	•	
26	UH2		
27	UH3		
28	UH4		
29	UH5		
30	1-1.25" SDR11		
31	2-1.25" SDR1		
32	3-1.25" SDR1		
33	4-1.25" SDR1		
34	EX-1.25" SDR		
35	TYCO "B" SPI		
36	TYCO "D" SPI		
37	GROUND RO	ט	
38	SPLICES		
39	BM53FA		

No.	Revision/Issue	Date

MAP NUMBER	
 1	
2	

PREPARED BY





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EXCEPT AS MAY BE OTHERWISE PROV
CONTRACT THESE DRAWINGS AND SPEC
SHALL REMAIN THE PROVIETY OF CEIP
EMPOR SISSEME CONCEPT CONTRACT
CONFIDENCE OF CONTRACT
OFFICE OF USED FOR ANY PLEY
WITHOUT SPECIPIC WRITTEN PERMI

ALL CABLE WILL BE PLACED BY METHOD OF DIRECTIONAL BORE MIN 2' OFF ROW OR EASEMEN' @ 42" DOC UNLESS OTHERWISE NOTED.