

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

March 13, 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, Well Stone Place

The Engineering Department recommends approval of the permit application for Telepak Networks/D.B.A. Cspire Utility to place a fiber-optic internet facility by method of directional bore, beginning at existing hand hole located on Well Stone Place and run the total of Phase 3A. The total pipe length of 4,726 ft. will provide high speed internet to residents of the new subdivision, Thornberry, Phase 3A and the county road names listed below.

- Well Stone Place
- Kingswood Place
- Kingswood Cove



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

Utility Information: Utility Name: _____

Address: _____ City/State/Zip: _____

Contact Person: _____ Contact's Phone: _____

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

Beginning Location: _____ Ending Location: _____

Total Pipe Length of Project: _____ Section: _____ Township: _____ Range: _____

Description of Work: _____

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 _____ day of _____, 2024.

By: 
(Applicant Signature)

Title: _____

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 **timothy.bryan at 9:13 am, Mar 27, 2024**

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

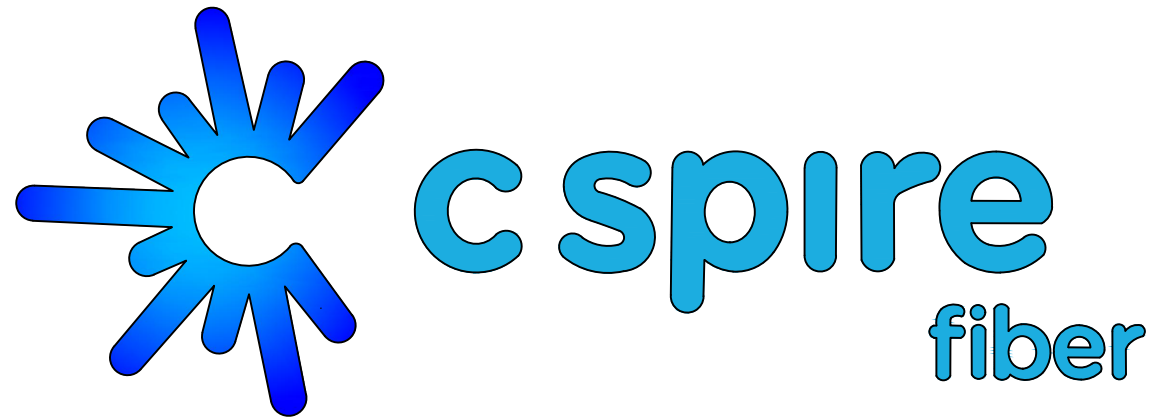
County Road Name: _____
Beginning Location: _____ Ending Location: _____
Length of Project: _____ Section: _____ Township: _____ Range: _____
Description of Work: _____

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



THORNBERRY PHASE 3A

CITY OF MADISON
 MADISON COUNTY, MISSISSIPPI
 3/7/2024



PERMITS REQUIRED

CITY :	N/A
COUNTY :	YES
MDOT :	N/A
FEDERAL :	N/A
RAILROAD :	N/A
PRIVATE R/W :	N/A
MISC :	N/A

HOUSE COUNT

OCCUPIED:	51
VACANT :	0
TOTAL :	51

PREPARED BY:





MADISON
MADISON COUNTY, MISSISSIPPI



JOB DESCRIPTION

PROJECT NAME THORNBERRY PHASE 3A	
PROJECT CITY MADISON	
SHEET MK1	DESCRIPTION CONSTRUCTION
SCALE NTS	DRAWN BY DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	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 LOOP	
8	48 CT FOC	
9	48 CT FOC LOOP	
10	72 CT FOC	
11	72 CT FOC LOOP	
12	96 CT FOC	
13	96 CT FOC LOOP	
14	144 CT FOC	
15	144 CT FOC LOOP	
16	288 CT FOC	
17	288 CT FOC LOOP	
18	BDO144P LCP	
19	BDO288P LCP	
20	BDO432P LCP	
21	BDO576P LCP	
22	UH2	
23	UH3	
24	UH4	
25	UH5	
26	1-1.25" SDR11 HDPE	
27	2-1.25" SDR11 HDPE	
28	3-1.25" SDR11 HDPE	
29	4-1.25" SDR11 HDPE	
30	MISC	
31	TYCO "B" SPLICE CASE	
32	TYCO "D" SPLICE CASE	
33	GROUND ROD	
34	SPLICES	
35	BM53FA	

REVISIONS

No.	Revision/Issue	Date

MAP NUMBER

PREPARED BY

PREPARED FOR

DISCLAIMER
EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER. BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477



MADISON
MADISON COUNTY, MISSISSIPPI

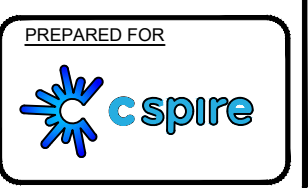
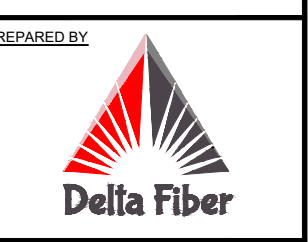
JOB DESCRIPTION

PROJECT NAME THORNBERRY PHASE 3A	
PROJECT CITY MADISON	
SHEET TYPICALS	DESCRIPTION CONSTRUCTION
SCALE NTS	DRAWN BY DELTA FIBER

MATERIALS LIST

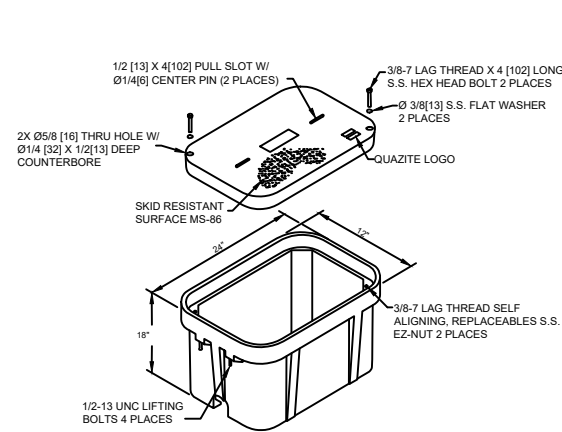
ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	TRIDENT RTD 1X12	
6	24 CT FOC	
7	24 CT FOC LOOP	
8	48 CT FOC	
9	48 CT FOC LOOP	
10	72 CT FOC	
11	72 CT FOC LOOP	
12	96 CT FOC	
13	96 CT FOC LOOP	
14	144 CT FOC	
15	144 CT FOC LOOP	
16	288 CT FOC	
17	288 CT FOC LOOP	
18	BDO144P LCP	
19	BDO288P LCP	
20	BDO432P LCP	
21	BDO576P LCP	
22	UH2	
23	UH3	
24	UH4	
25	UH5	
26	1-1.25" SDR11 HDPE	
27	2-1.25" SDR11 HDPE	
28	3-1.25" SDR11 HDPE	
29	4-1.25" SDR11 HDPE	
30	MISC	
31	TYCO "B" SPLICE CASE	
32	TYCO "D" SPLICE CASE	
33	GROUND ROD	
34	SPLICES	
35	BM53FA	

REVISIONS		
No.	Revision/Issue	Date

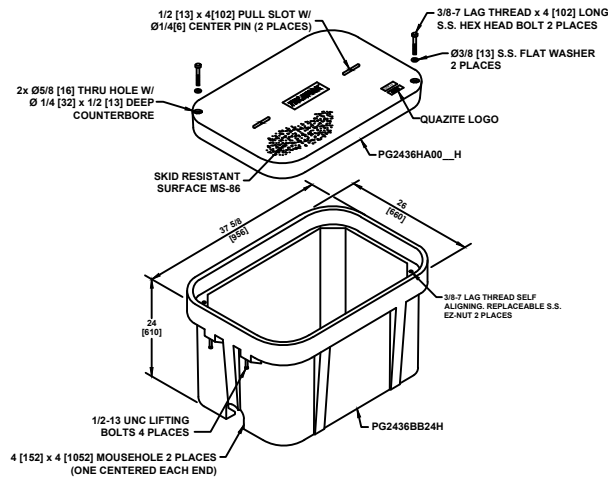


DISCLAIMER
EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER. BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

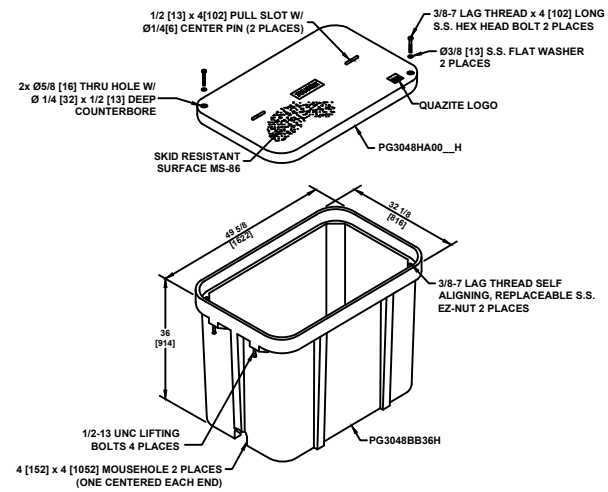
UH-2



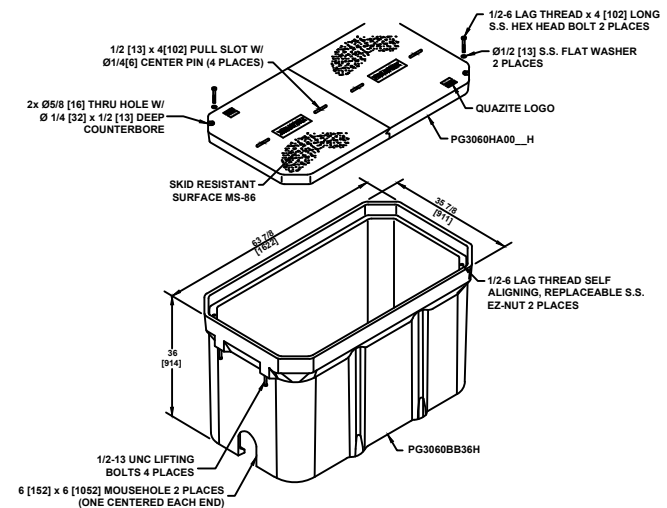
UH-3



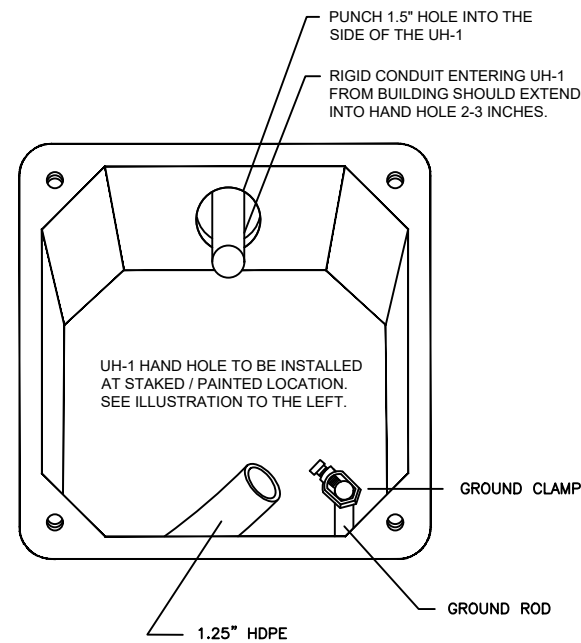
UH-4



UH-5

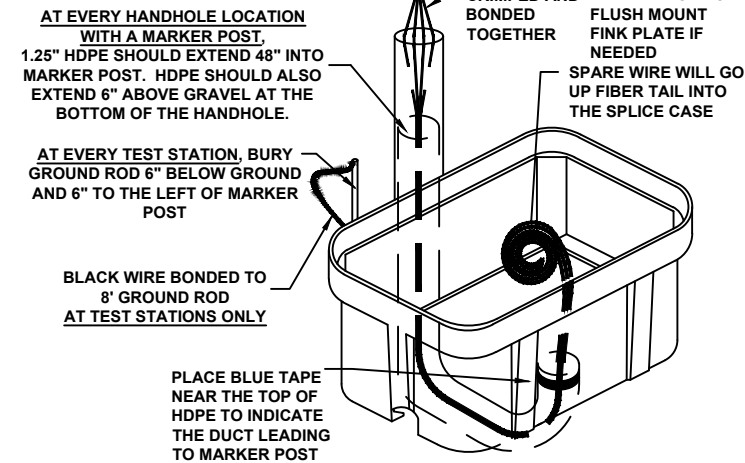


TYPICAL UH-1 / UH-2 HAND HOLE INSTALLATION PROCEDURES AT BUILDING ENTRIES



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



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:
- 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].
 - 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.	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.

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

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477



MADISON
MADISON COUNTY, MISSISSIPPI

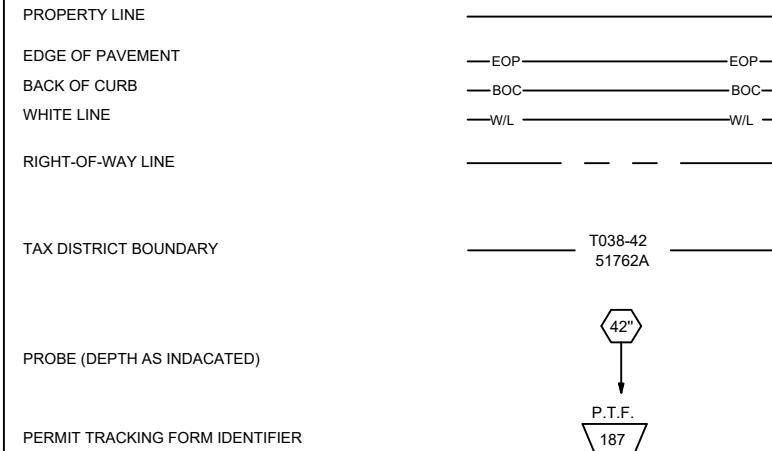
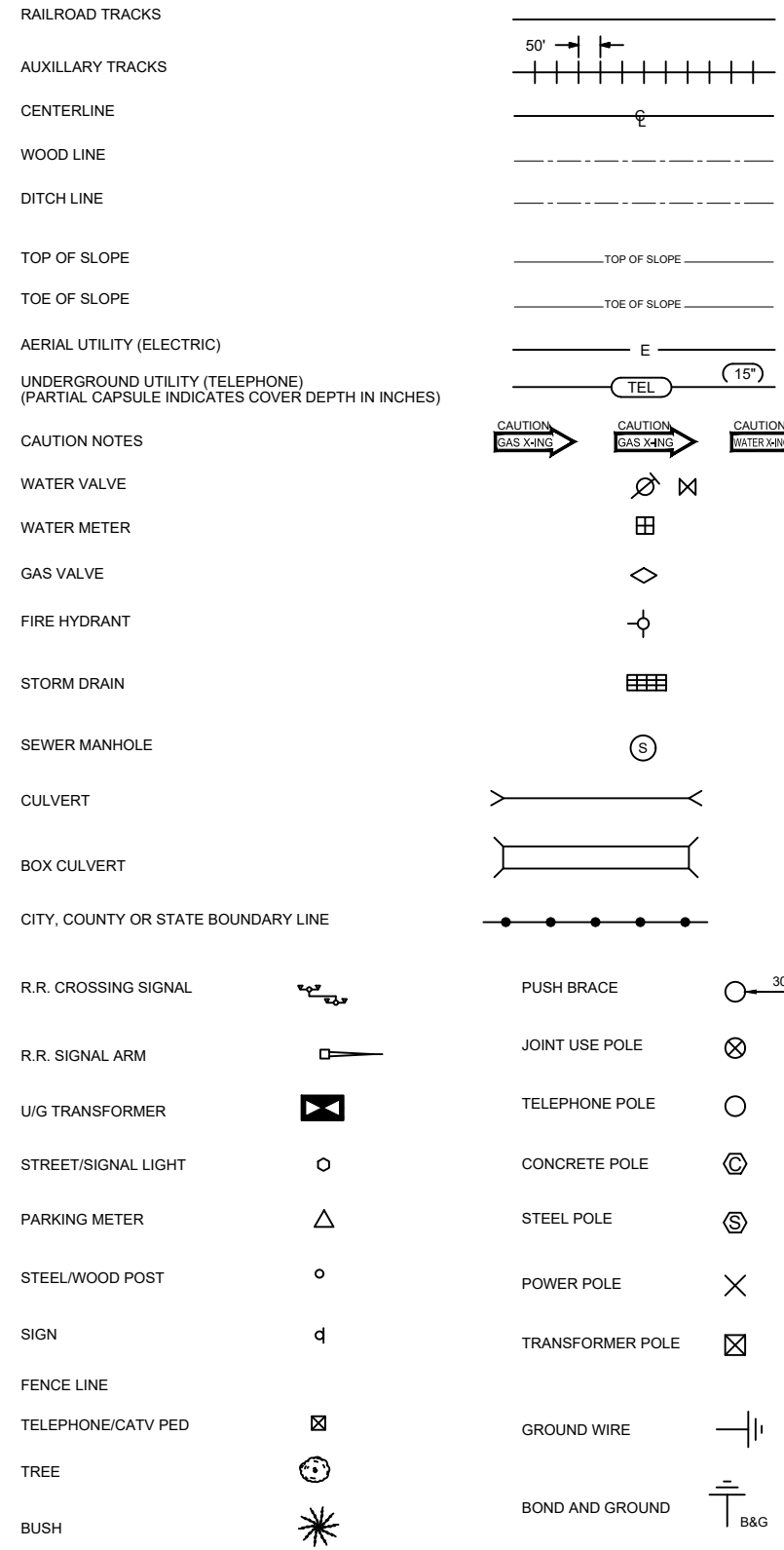
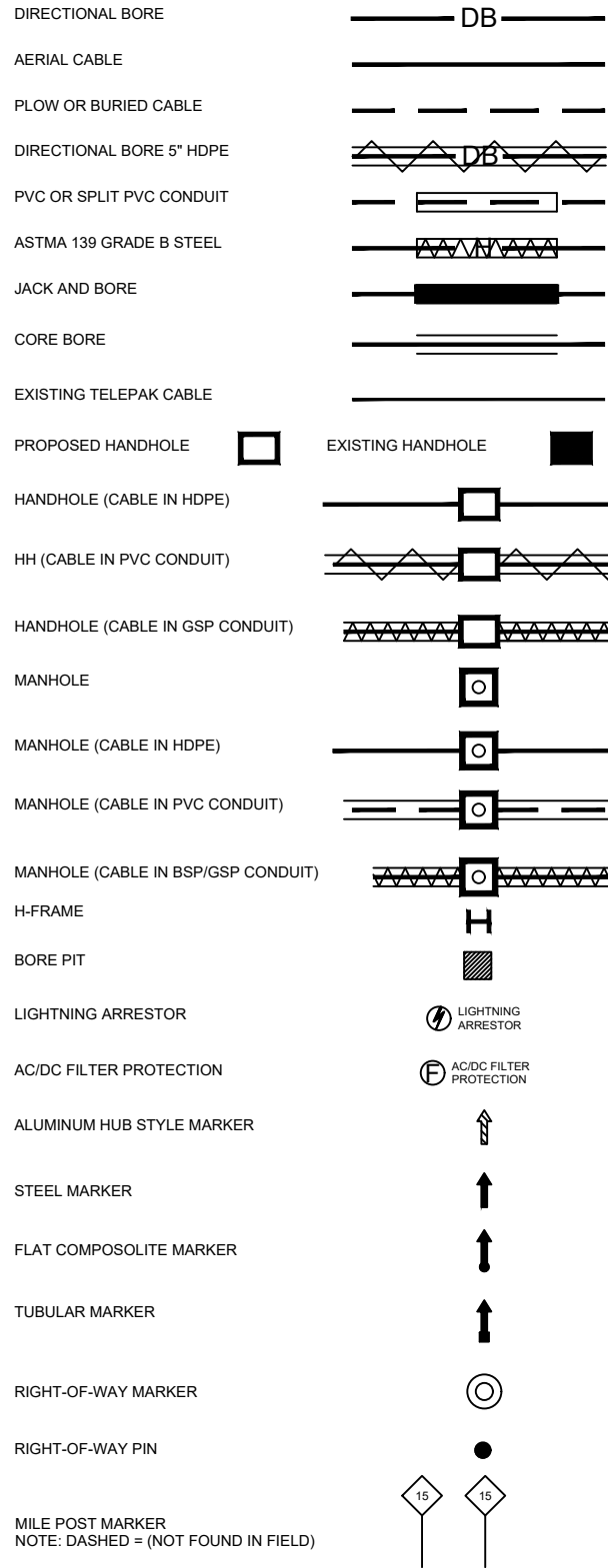
SYMBOLS KEY

JOB DESCRIPTION

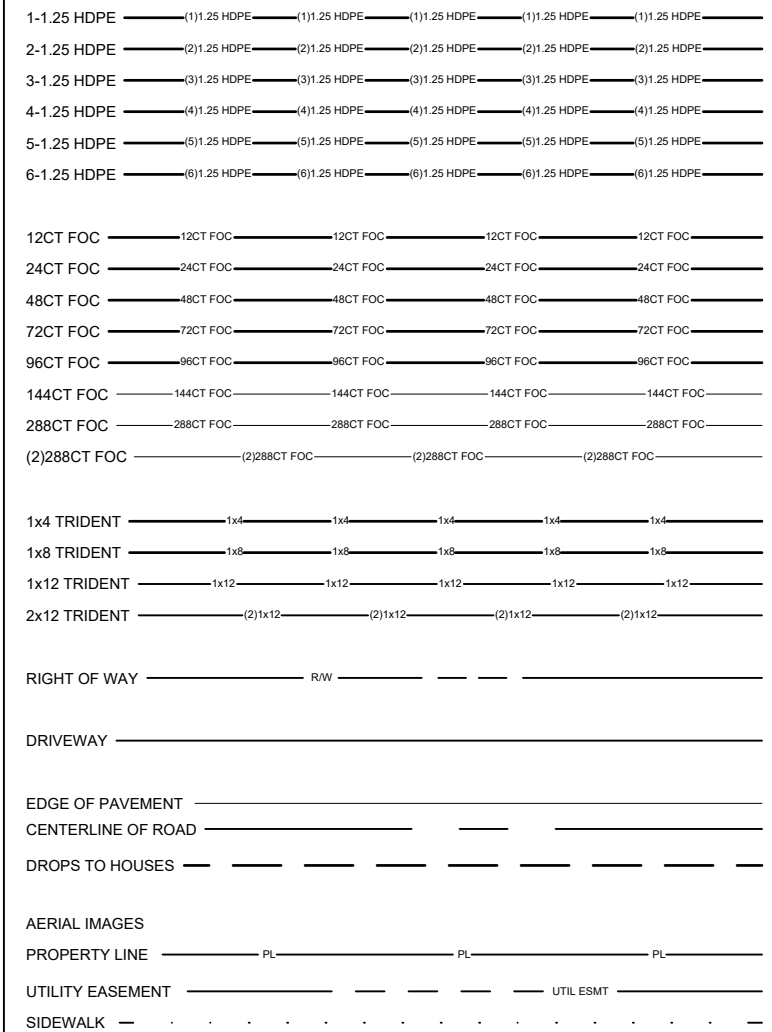
PROJECT NAME	
THORNBERRY PHASE 3A	
PROJECT CITY	
MADISON	
SHEET	LEGEND
CONSTRUCTION	CONSTRUCTION
SCALE	DRAWN BY
NTS	DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	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 LOOP	
8	48 CT FOC	
9	48 CT FOC LOOP	
10	72 CT FOC	
11	72 CT FOC LOOP	
12	96 CT FOC	
13	96 CT FOC LOOP	
14	144 CT FOC	
15	144 CT FOC LOOP	
16	288 CT FOC	
17	288 CT FOC LOOP	
18	BDO144P LCP	
19	BDO288P LCP	
20	BDO432P LCP	
21	BDO576P LCP	
22	UH2	
23	UH3	
24	UH4	
25	UH5	
26	1-1.25" SDR11 HDPE	
27	2-1.25" SDR11 HDPE	
28	3-1.25" SDR11 HDPE	
29	4-1.25" SDR11 HDPE	
30	MISC	
31	TYCO "B" SPLICE CASE	
32	TYCO "D" SPLICE CASE	
33	GROUND ROD	
34	SPLICES	
35	BM53FA	



DELTA FIBER TYPICAL LINETYPES



REVISIONS		
No.	Revision/Issue	Date

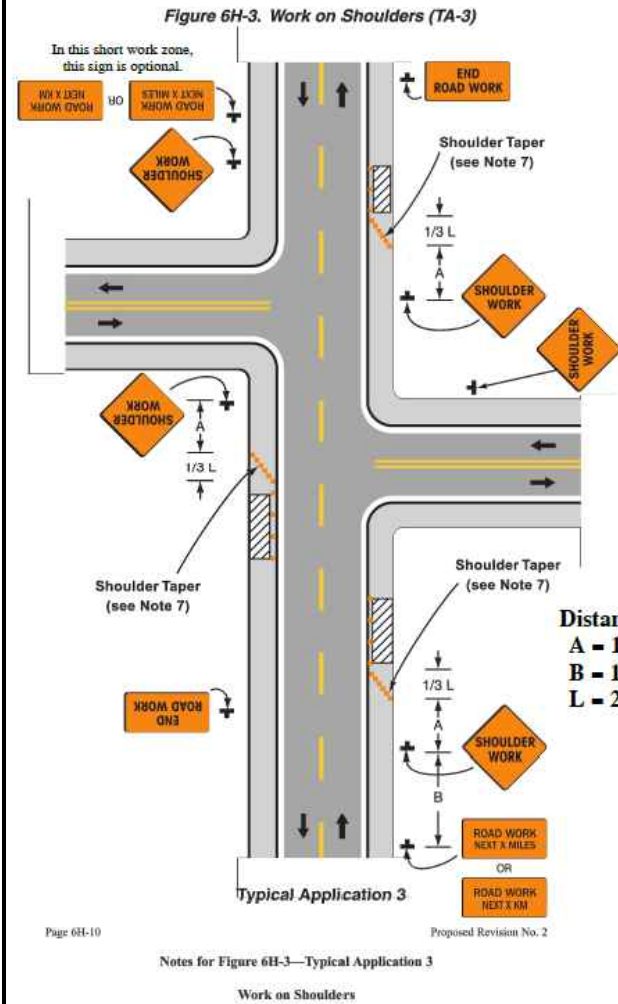
MAP NUMBER		



DISCLAIMER
EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER. BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

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

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477



WORK ON SHOULDERS

GUIDANCE:

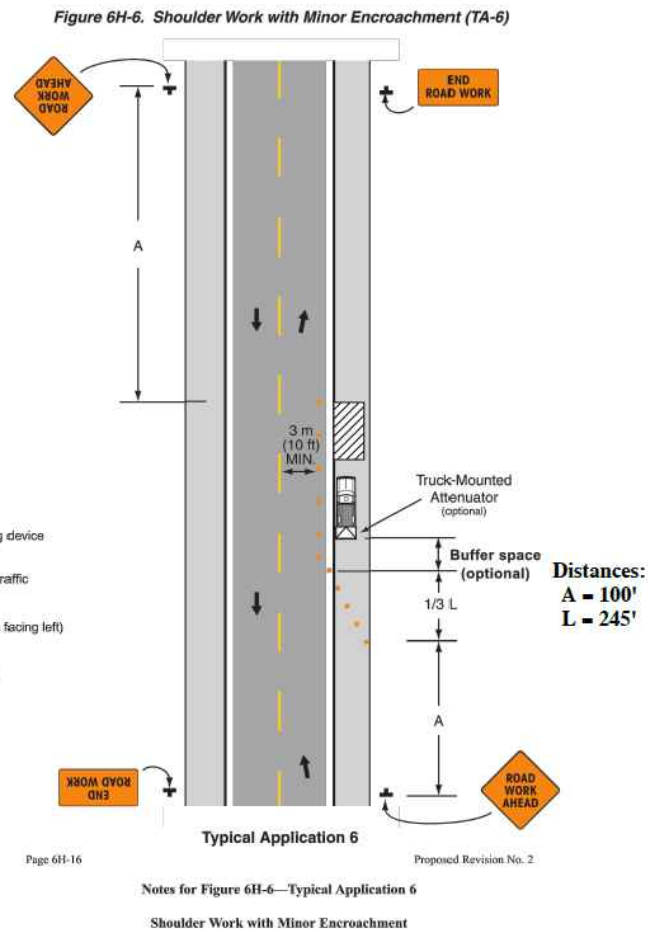
1. A SHOULDER WORK sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.

OPTION:

2. The workers symbol signs may be used instead of SHOULDER WORK signs.
3. 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:

1. All lanes should be a minimum of 3 m (10ft) in width as measured to the near face of the channelizing devices.
 2. 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:**
3. 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.

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).

JOB DESCRIPTION

PROJECT NAME THORNBERRY PHASE 3A	
PROJECT CITY MADISON	
SHEET TC1	DESCRIPTION TRAFFIC CONTROL
SCALE	DRAWN BY DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	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 LOOP	
8	48 CT FOC	
9	48 CT FOC LOOP	
10	72 CT FOC	
11	72 CT FOC LOOP	
12	96 CT FOC	
13	96 CT FOC LOOP	
14	144 CT FOC	
15	144 CT FOC LOOP	
16	288 CT FOC	
17	288 CT FOC LOOP	
18	BDO144P LCP	
19	BDO288P LCP	
20	BDO432P LCP	
21	BDO576P LCP	
22	UH2	
23	UH3	
24	UH4	
25	UH5	
26	1-1.25" SDR11 HDPE	
27	2-1.25" SDR11 HDPE	
28	3-1.25" SDR11 HDPE	
29	4-1.25" SDR11 HDPE	
30	MISC	
31	TYCO "B" SPLICE CASE	
32	TYCO "D" SPLICE CASE	
33	GROUND ROD	
34	SPLICES	
35	BM53FA	

REVISIONS

No.	Revision/Issue	Date

MAP NUMBER

PREPARED BY



PREPARED FOR



DISCLAIMER

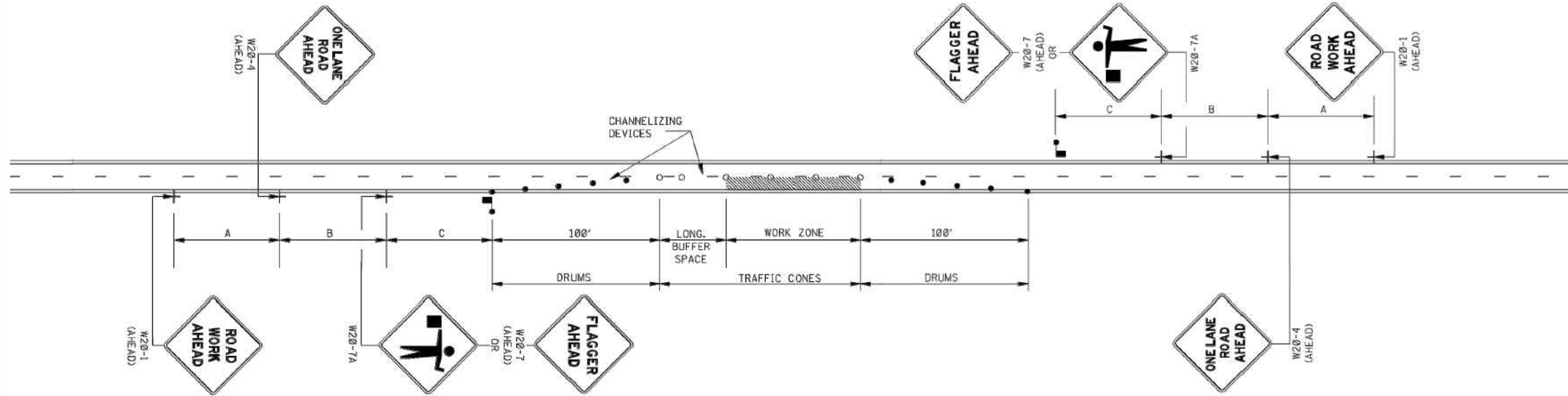
EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER. BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

JOB DESCRIPTION

PROJECT NAME THORNBERRY PHASE 3A	
PROJECT CITY MADISON, MS	
SHEET TC2	DESCRIPTION TRAFFIC CONTROL
SCALE	DRAWN BY DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	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 LOOP	
8	48 CT FOC	
9	48 CT FOC LOOP	
10	72 CT FOC	
11	72 CT FOC LOOP	
12	96 CT FOC	
13	96 CT FOC LOOP	
14	144 CT FOC	
15	144 CT FOC LOOP	
16	288 CT FOC	
17	288 CT FOC LOOP	
18	BDO144P LCP	
19	BDO288P LCP	
20	BDO432P LCP	
21	BDO576P LCP	
22	UH2	
23	UH3	
24	UH4	
25	UH5	
26	1-1.25" SDR11 HDPE	
27	2-1.25" SDR11 HDPE	
28	3-1.25" SDR11 HDPE	
29	4-1.25" SDR11 HDPE	
30	MISC	
31	TYCO "B" SPLICE CASE	
32	TYCO "D" SPLICE CASE	
33	GROUND ROD	
34	SPLICES	
35	BM53FA	



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 (ft)	STOPPING SIGHT DISTANCE
	TAPER	ALONG LANE LINE & WORK ZONE		
mph				
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.

- ALL CHANNELIZING DEVICES SHALL BE A MINIMUM OF 28" IN HEIGHT.
- DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 36" x 36" AND BLACK COPY ON FLUORESCENT ORANGE SHEETING.
- 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.
- ADDITIONAL FLAGGERS MAY BE NEEDED AS DIRECTED BY THE ENGINEER.
- WHEN WORK IS REQUIRED AT NIGHT, FLAGGER STATIONS SHALL BE ILLUMINATED.
- CHANNELIZING DEVICE TYPES FOR:
A. APPROACH AND EXIT TAPERS - RETROREFLECTIVE PLASTIC DRUMS
B. ALONG LANE LINE AND WORK ZONE - TRAFFIC CONES (28" HEIGHT)
- 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.

REVISIONS

No.	Revision/Issue	Date

MAP NUMBER

PREPARED BY:



PREPARED FOR

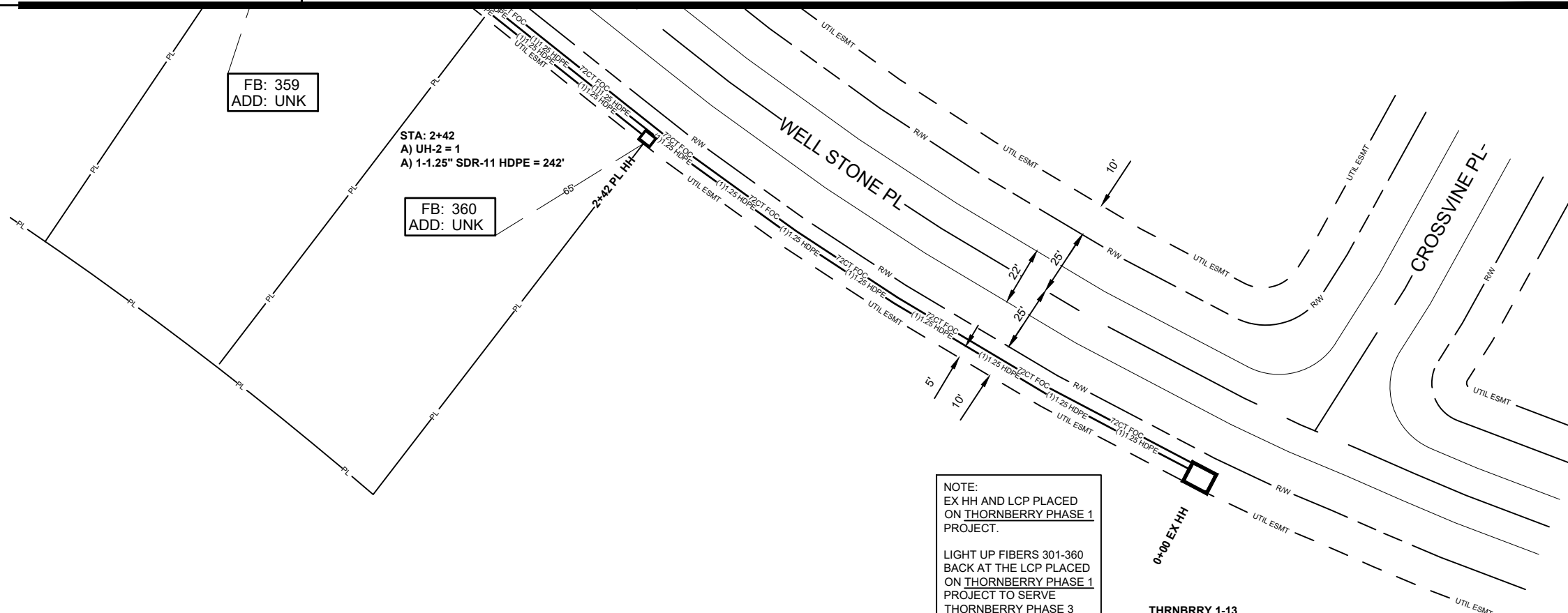


DISCLAIMER

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER. BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.



SEE SHEET 2



FB: 359
ADD: UNK

STA: 2+42
A) UH-2 = 1
A) 1-1.25" SDR-11 HDPE = 242'

FB: 360
ADD: UNK

NOTE:
EX HH AND LCP PLACED
ON THORNERRY PHASE 1
PROJECT.

LIGHT UP FIBERS 301-360
BACK AT THE LCP PLACED
ON THORNERRY PHASE 1
PROJECT TO SERVE
THORNERRY PHASE 3
PROJECT FROM EX HH
THRNBRRY 1-13.

THRNBRRY 1-13
(STA: 0+00)
A) UH-4 (30X48X36) = EXISTING
A) GROUND ROD = EXISTING
A) BM53FA = EXISTING
A) 72CT FOC LOOP = 50'
A) TYCO "D" SPLICE CASE = EXISTING

A) SPLICES = 60

[GPS: 32.531327, -90.162485]

JOB DESCRIPTION

PROJECT NAME THORNERRY PHASE 3A	
PROJECT CITY MADISON, MS	
SHEET 001	DESCRIPTION CONSTRUCTION
SCALE 1"=50'	DRAWN BY DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	24 CT FOC	
5	24 CT FOC LOOP	
6	48 CT FOC	
7	48 CT FOC LOOP	
8	72 CT FOC	
9	72 CT FOC LOOP	50
10	96 CT FOC	
11	96 CT FOC LOOP	
12	144 CT FOC	
13	144 CT FOC LOOP	
14	288 CT FOC	
15	288 CT FOC LOOP	
16	BDO144P LCP	
17	BDO288P LCP	
18	BDO432P LCP	
19	BDO576P LCP	
20	UH2	1
21	UH3	
22	UH4	
23	UH5	
24	1-1.25" SDR11 HDPE	242
25	2-1.25" SDR11 HDPE	
26	3-1.25" SDR11 HDPE	
27	4-1.25" SDR11 HDPE	
28	MISC	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
32	SPLICES	60
33	BM53FA	

REVISIONS

No.	Revision/Issue	Date

MAP NUMBER

2

PREPARED BY



PREPARED FOR



DISCLAIMER

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER. BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

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

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477



MADISON
MADISON COUNTY, MISSISSIPPI

JOB DESCRIPTION

PROJECT NAME THORNBERRY PHASE 3A	
PROJECT CITY MADISON, MS	
SHEET 002	DESCRIPTION CONSTRUCTION
SCALE 1"=50'	DRAWN BY DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	1000
4	24 CT FOC	
5	24 CT FOC LOOP	
6	48 CT FOC	
7	48 CT FOC LOOP	
8	72 CT FOC	582
9	72 CT FOC LOOP	100
10	96 CT FOC	
11	96 CT FOC LOOP	
12	144 CT FOC	
13	144 CT FOC LOOP	
14	288 CT FOC	
15	288 CT FOC LOOP	
16	BDO144P LCP	
17	BDO288P LCP	
18	BDO432P LCP	
19	BDO576P LCP	
20	UH2	6
21	UH3	1
22	UH4	
23	UH5	
24	1-1.25" SDR11 HDPE	431
25	2-1.25" SDR11 HDPE	625
26	3-1.25" SDR11 HDPE	
27	4-1.25" SDR11 HDPE	
28	MISC	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
32	SPLICES	
33	BM53FA	1

REVISIONS

No.	Revision/Issue	Date

MAP NUMBER	
3	2
	1

PREPARED BY



PREPARED FOR



DISCLAIMER

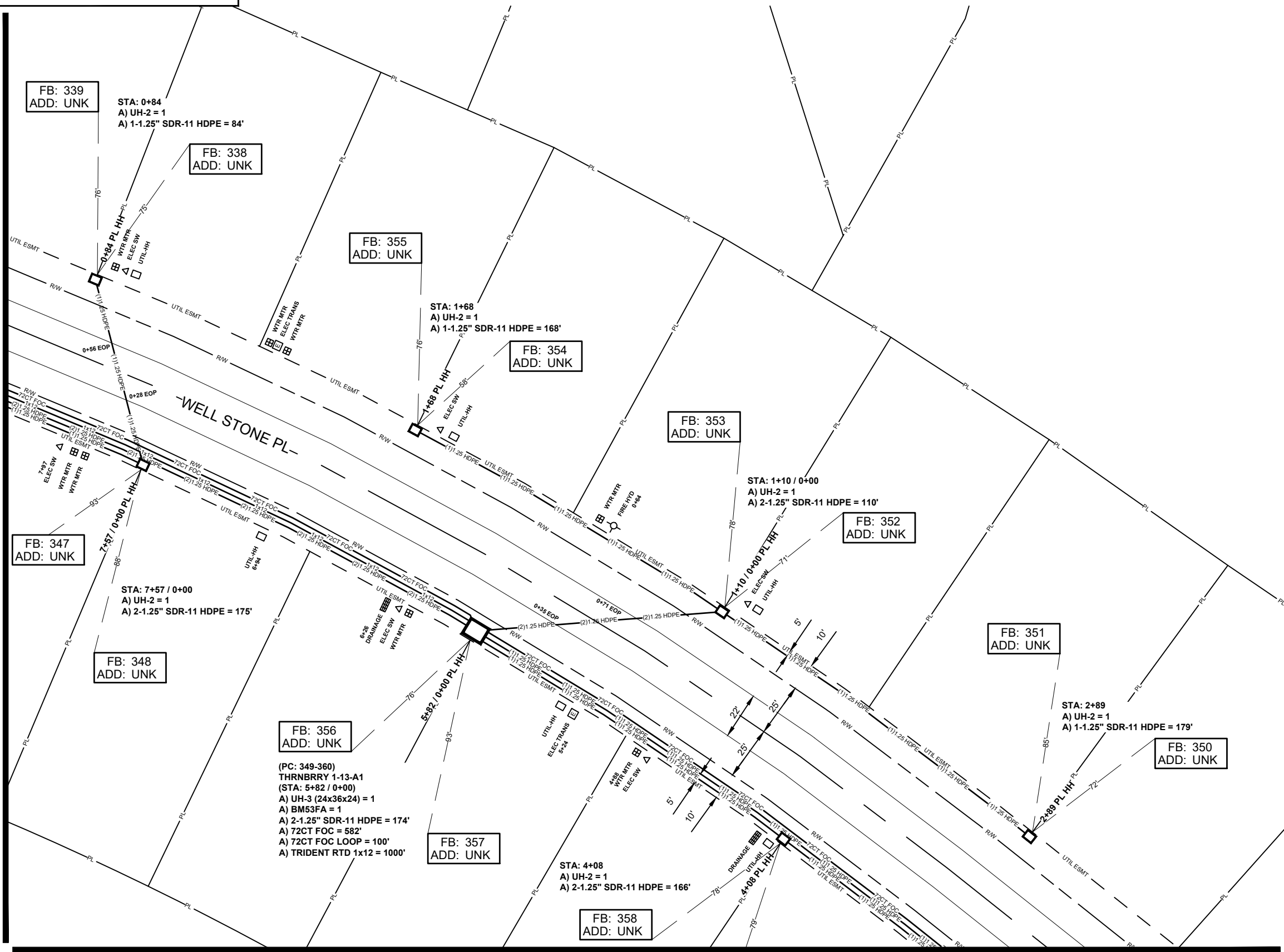
EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER. BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SEE SHEET 3

SEE SHEET 1

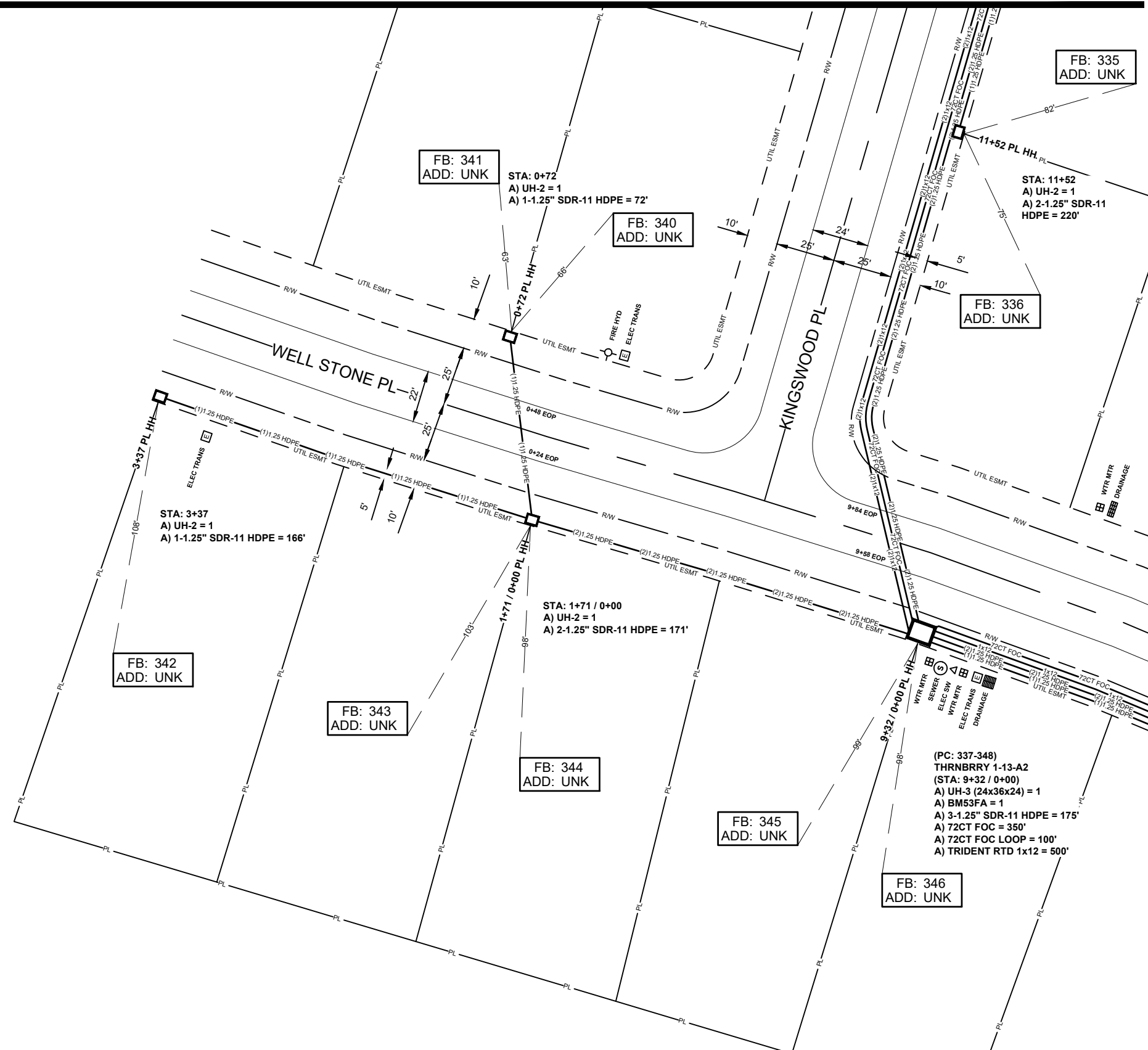
ALL CABLE WILL BE PLACED BY METHOD OF DIRECTIONAL BORE MIN 2' OFF ROW OR EASEMENT @ 42" DOC UNLESS OTHERWISE NOTED.

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477





SEE SHEET 4



SEE SHEET 2

JOB DESCRIPTION

PROJECT NAME THORNBERRY PHASE 3A	
PROJECT CITY MADISON, MS	
SHEET 003	DESCRIPTION CONSTRUCTION
SCALE 1"=50'	DRAWN BY DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	500
4	24 CT FOC	
5	24 CT FOC LOOP	
6	48 CT FOC	
7	48 CT FOC LOOP	
8	72 CT FOC	350
9	72 CT FOC LOOP	100
10	96 CT FOC	
11	96 CT FOC LOOP	
12	144 CT FOC	
13	144 CT FOC LOOP	
14	288 CT FOC	
15	288 CT FOC LOOP	
16	BDO144P LCP	
17	BDO288P LCP	
18	BDO432P LCP	
19	BDO576P LCP	
20	UH2	4
21	UH3	1
22	UH4	
23	UH5	
24	1-1.25" SDR11 HDPE	238
25	2-1.25" SDR11 HDPE	391
26	3-1.25" SDR11 HDPE	175
27	4-1.25" SDR11 HDPE	
28	MISC	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
32	SPLICES	
33	BM53FA	1

REVISIONS

No.	Revision/Issue	Date

MAP NUMBER	
4	2
3	

PREPARED BY



PREPARED FOR



DISCLAIMER

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER. NO PART OF THESE DRAWINGS OR SPECIFICATIONS SHALL BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

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

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477



JOB DESCRIPTION

PROJECT NAME THORNBERRY PHASE 3A	
PROJECT CITY MADISON, MS	
SHEET 004	DESCRIPTION CONSTRUCTION
SCALE 1"=50'	DRAWN BY DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	100
4	24 CT FOC	
5	24 CT FOC LOOP	
6	48 CT FOC	
7	48 CT FOC LOOP	
8	72 CT FOC	391
9	72 CT FOC LOOP	50
10	96 CT FOC	
11	96 CT FOC LOOP	
12	144 CT FOC	
13	144 CT FOC LOOP	
14	288 CT FOC	
15	288 CT FOC LOOP	
16	BDO144P LCP	
17	BDO288P LCP	
18	BDO432P LCP	
19	BDO576P LCP	
20	UH2	3
21	UH3	1
22	UH4	
23	UH5	
24	1-1.25" SDR11 HDPE	453
25	2-1.25" SDR11 HDPE	
26	3-1.25" SDR11 HDPE	171
27	4-1.25" SDR11 HDPE	
28	MISC	
29	TYCO "B" SPLICE CASE	1
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	1
32	SPLICES	60
33	BM53FA	1

REVISIONS

No.	Revision/Issue	Date

MAP NUMBER	
4	5
3	

PREPARED BY

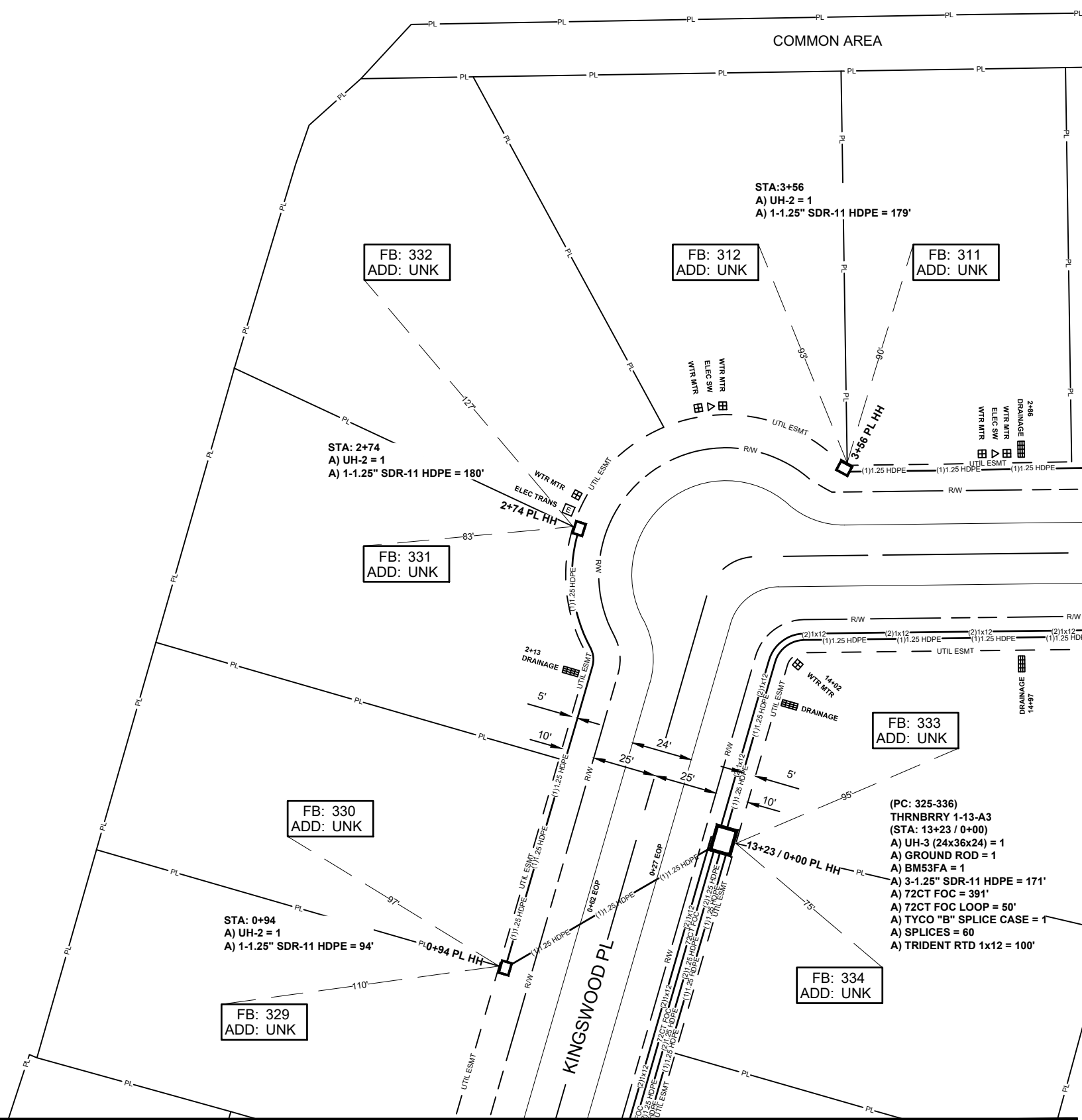


PREPARED FOR



DISCLAIMER

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER. BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.



SEE SHEET 5

SEE SHEET 3

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

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477



MADISON
MADISON COUNTY, MISSISSIPPI

JOB DESCRIPTION

PROJECT NAME THORNBERRY PHASE 3A	
PROJECT CITY MADISON, MS	
SHEET 005	DESCRIPTION CONSTRUCTION
SCALE 1"=50'	DRAWN BY DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	500
3	TRIDENT RTD 1X12	100
4	24 CT FOC	
5	24 CT FOC LOOP	
6	48 CT FOC	
7	48 CT FOC LOOP	
8	72 CT FOC	
9	72 CT FOC LOOP	
10	96 CT FOC	
11	96 CT FOC LOOP	
12	144 CT FOC	
13	144 CT FOC LOOP	
14	288 CT FOC	
15	288 CT FOC LOOP	
16	BDO144P LCP	
17	BDO288P LCP	
18	BDO432P LCP	
19	BDO576P LCP	
20	UH2	6
21	UH3	2
22	UH4	
23	UH5	
24	1-1.25" SDR11 HDPE	1150
25	2-1.25" SDR11 HDPE	293
26	3-1.25" SDR11 HDPE	
27	4-1.25" SDR11 HDPE	
28	MISC	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
32	SPLICES	
33	BM53FA	2

REVISIONS

No.	Revision/Issue	Date

MAP NUMBER		
4	5	6

PREPARED BY



PREPARED FOR



DISCLAIMER

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER. BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

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

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477

SEE SHEET 4

SEE SHEET 6



MADISON
MADISON COUNTY, MISSISSIPPI

JOB DESCRIPTION

PROJECT NAME THORNBERRY PHASE 3A	
PROJECT CITY MADISON, MS	
SHEET 006	DESCRIPTION CONSTRUCTION
SCALE 1"=50'	DRAWN BY DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	24 CT FOC	
5	24 CT FOC LOOP	
6	48 CT FOC	
7	48 CT FOC LOOP	
8	72 CT FOC	
9	72 CT FOC LOOP	
10	96 CT FOC	
11	96 CT FOC LOOP	
12	144 CT FOC	
13	144 CT FOC LOOP	
14	288 CT FOC	
15	288 CT FOC LOOP	
16	BDO144P LCP	
17	BDO288P LCP	
18	BDO432P LCP	
19	BDO576P LCP	
20	UH2	3
21	UH3	
22	UH4	
23	UH5	
24	1-1.25" SDR11 HDPE	539
25	2-1.25" SDR11 HDPE	
26	3-1.25" SDR11 HDPE	
27	4-1.25" SDR11 HDPE	
28	MISC	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
32	SPLICES	
33	BM53FA	

REVISIONS

No.	Revision/Issue	Date

MAP NUMBER

5	6
---	---

PREPARED BY



PREPARED FOR



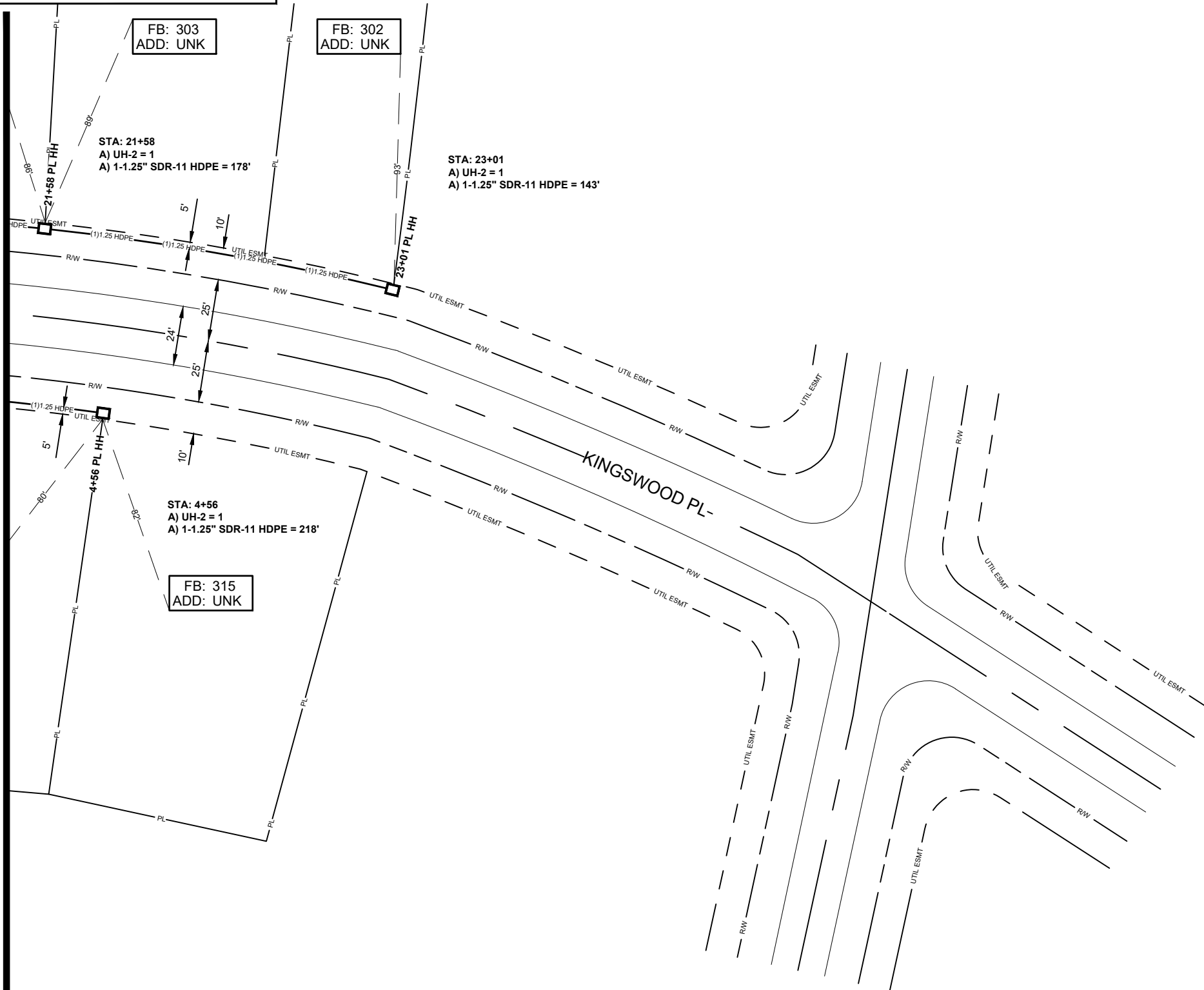
DISCLAIMER

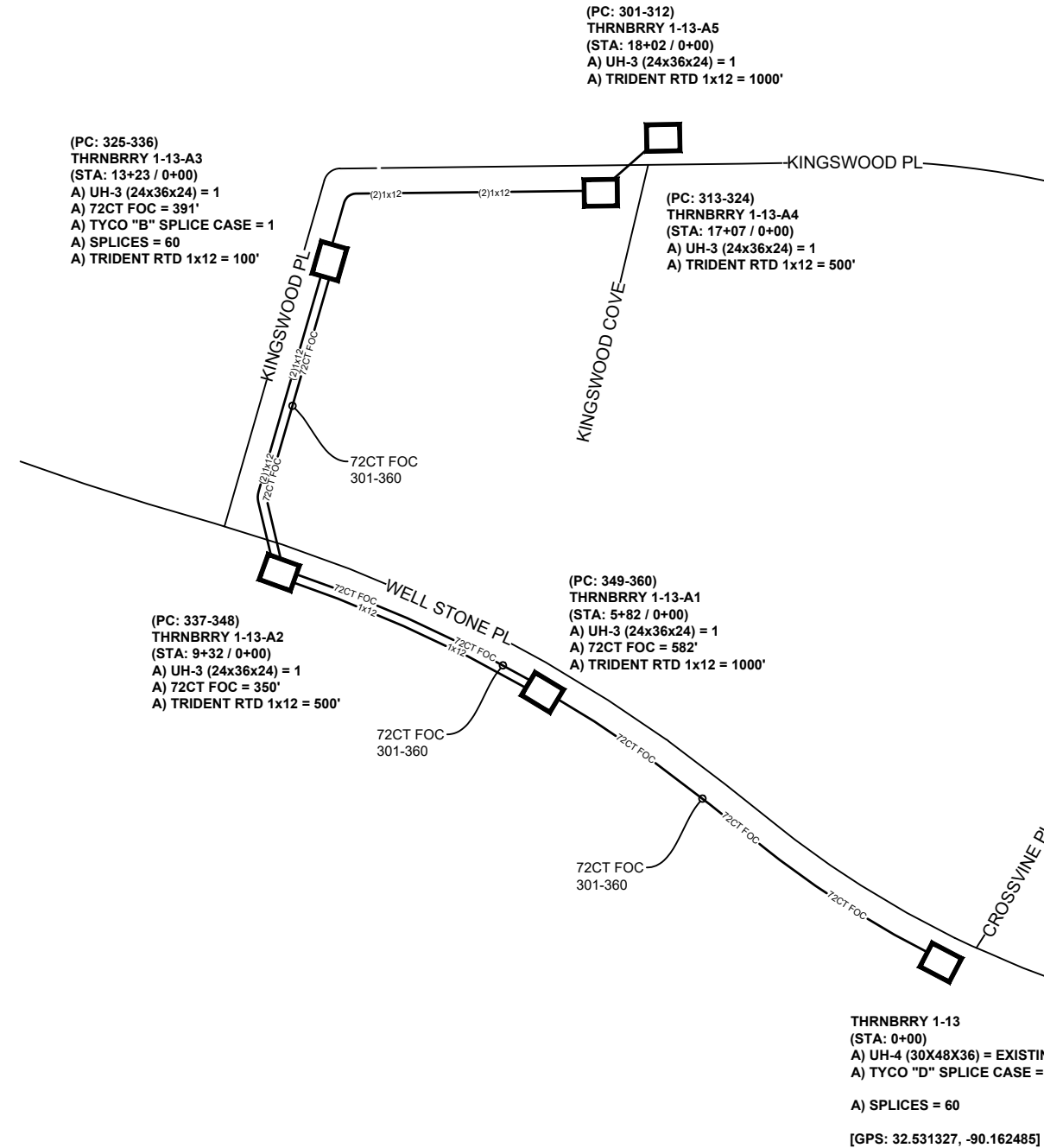
EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER. BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

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

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477

SEE SHEET 5





NOTE:
EX HH AND LCP PLACED ON THORNBERRY PHASE 1 PROJECT.
LIGHT UP FIBERS 301-360 BACK AT THE LCP PLACED ON THORNBERRY PHASE 1 PROJECT TO SERVE THORNBERRY PHASE 3 PROJECT FROM EX HH THRNBRRY 1-13.

JOB DESCRIPTION

PROJECT NAME THORNBERRY PHASE 4	
PROJECT CITY MADISON, MS	
SHEET SCHEMATIC 001	DESCRIPTION CONSTRUCTION
SCALE NTS	DRAWN BY DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	24 CT FOC	
5	24 CT FOC LOOP	
6	48 CT FOC	
7	48 CT FOC LOOP	
8	72 CT FOC	
9	72 CT FOC LOOP	
10	96 CT FOC	
11	96 CT FOC LOOP	
12	144 CT FOC	
13	144 CT FOC LOOP	
14	288 CT FOC	
15	288 CT FOC LOOP	
16	BDO144P LCP	
17	BDO288P LCP	
18	BDO432P LCP	
19	BDO576P LCP	
20	UH2	
21	UH3	
22	UH4	
23	UH5	
24	1-1.25" SDR11 HDPE	
25	2-1.25" SDR11 HDPE	
26	3-1.25" SDR11 HDPE	
27	4-1.25" SDR11 HDPE	
28	MISC	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
32	SPLICES	
33	BM53FA	

REVISIONS

No.	Revision/Issue	Date

MAP NUMBER

--	--	--

PREPARED BY:

PREPARED FOR:

DISCLAIMER

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER. BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

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

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477