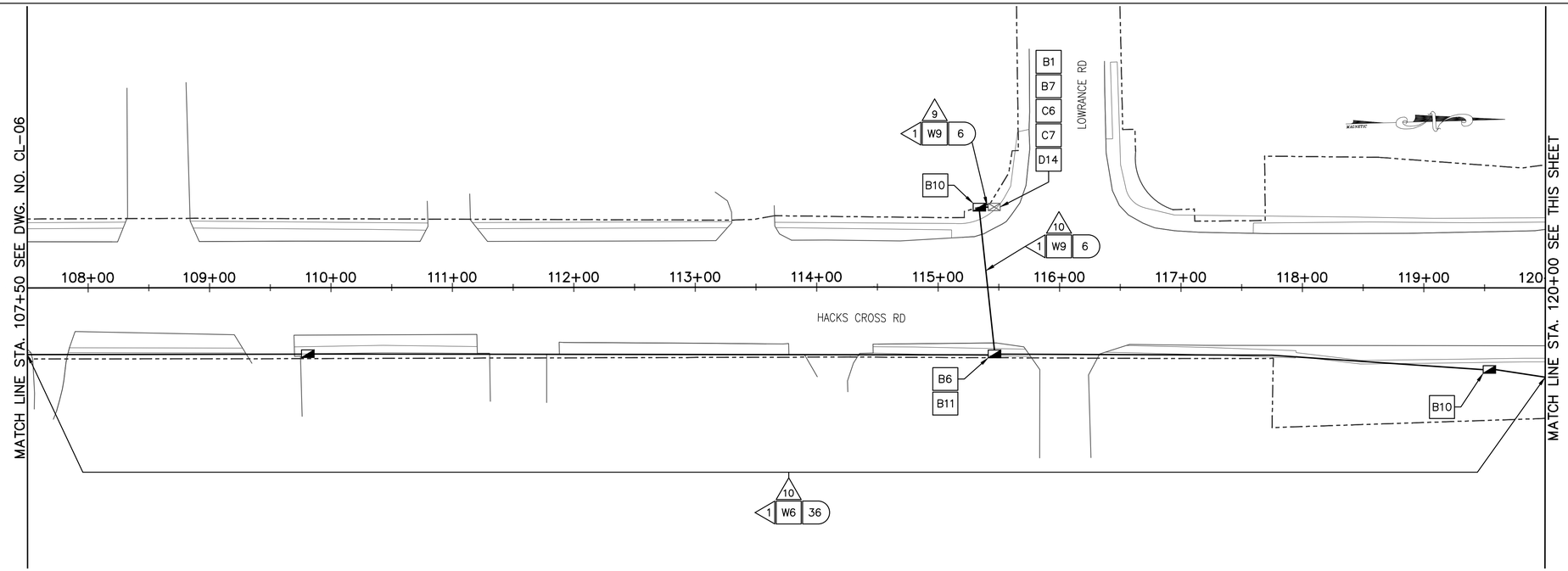

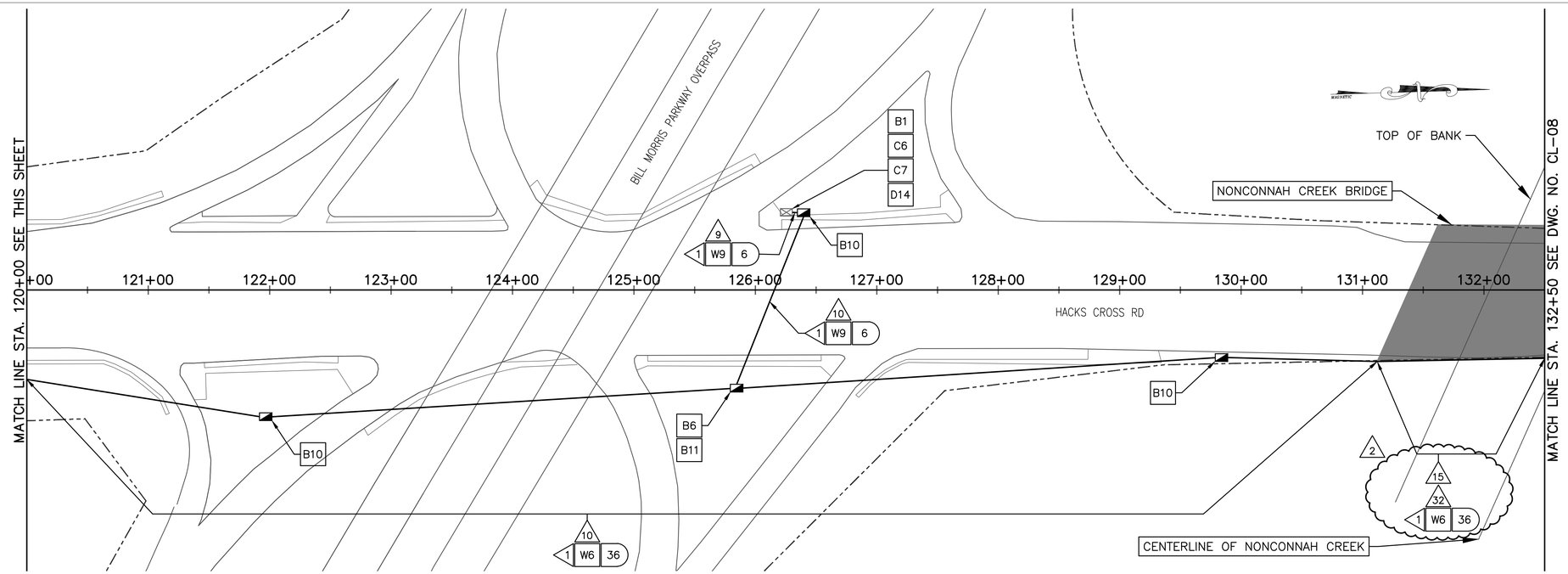

NUMBER OF CABLES, LOOPS, ETC.

X NUMBER OF CONDUCTORS, PAIRS, ETC.

B1	RETAIN AND MODIFY EXISTING CABINET
B3	INSTALL NEW BASE MOUNTED CONTROLLER CABINET
B6	INSTALL WEATHER PROOF SPLICE ENCLOSURE
B7	INSTALL FIBER DISTRIBUTION BOX
B9	INSTALL TRAFFIC SIGNAL PULLBOX
B10	INSTALL FIBER OPTIC PULLBOX TYPE A
B11	INSTALL FIBER OPTIC PULLBOX TYPE B
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B15	MLGW POWER SERVICE CONNECTION
C2	INSTALL 8-PHASE CONTROLLER
C4	REMOVE EXISTING CONTROLLER AND INSTALL NEW CONTROLLER
C5	INSTALL FIBER OPTIC MODEM
C6	INSTALL ETHERNET CABINET SWITCH
C7	INSTALL SERIAL DEVICE SERVER
D1	INSTALL EVP DETECTOR
D2	INSTALL EVP CONFIRMATION BEACON
D3	INSTALL EVP CONFIRMATION LAMP
D4	INSTALL VIDEO DETECTION CAMERA WITH TYPE 1 MOUNT
D5	INSTALL VIDEO DETECTION CAMERA WITH TYPE 2 MOUNT
D6	INSTALL VIDEO DETECTION CAMERA WITH TYPE 3 MOUNT
D7	INSTALL SPAN-WIRE MOUNTED VIDEO DETECTION CAMERA
D8	INSTALL EVP PHASE SELECTOR
D9	INSTALL VIDEO DETECTION PROCESSOR
D10	INSTALL DETECTOR AMPLIFIER (4-CHANNEL) IN CABINET
D11	REUSE SYSTEM DETECTOR AMPLIFIER(S) (SEE REMOVAL DIAGRAM)
D12	INSTALL NEW POLE MOUNTED RDS CABINET
D13	INSTALL RADAR DETECTION SYSTEM
D14	INSTALL VIDEO REMOTE MANAGEMENT CARD
D15	INSTALL BLUETOOTH DETECTION SYSTEM
W1	EVP DETECTOR CABLE(S)
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W5	2C DETECTOR CABLE(S)
W6	SMFO CABLE
W9	DROP CABLES (6-FIBER)
W11	RDS CABLE
3	INSTALL 2" RISER INTO BOTTOM OF CABINET
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30	LASH TO EXISTING MESSENGER WIRE/SPANWIRE
32	ATTACH CONDUIT TO BRIDGE
33	REMOVE EXISTING FIBER CABLE

CL-07

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

REVISIONS

	DATE	DESCRIPTIONS	APPROVED
2	03/2015	ADDENDUM 2	

STEVEN HILL REGISTERED ENGINEER No. 16272 STATE OF TENNESSEE 2/10/15

POWERS HILL DESIGN
CIVIL ENGINEERING. CIVIL RESPONSIBILITY.

Kimley»Horn

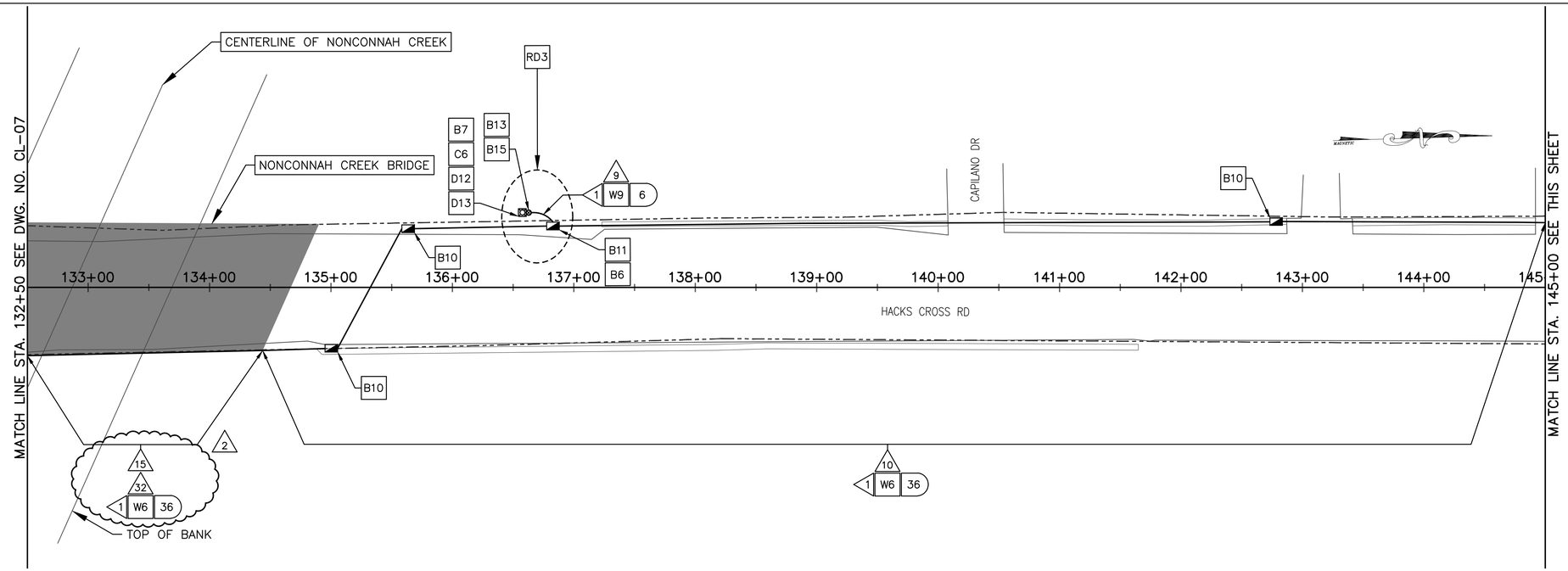
DIVISION OF PUBLIC WORKS
CONGESTION MANAGEMENT PROGRAM
SIGNAL SYSTEM PROJECT SET #4
SHELBY COUNTY, TN.

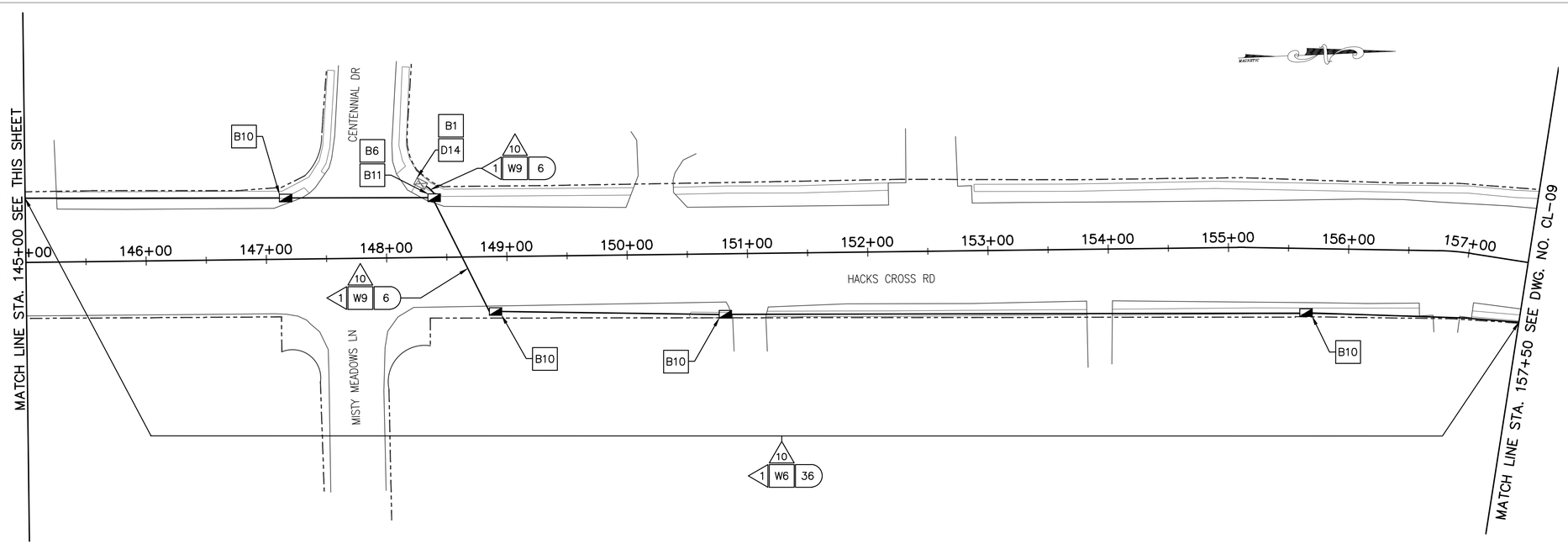
HACKS CROSS ROAD

CABLE LAYOUT
FROM 107+50 TO 132+50

SURVEY: N/A DATE: N/A BOOK: N/A
DRAFTED: APL DATE: 3/14 SCALE: 1"=50'
DESIGNED: APL DATE: 3/14 CHECKED: SH DATE: 8/14
JURISDICTION: _____ SHEET 18 OF 67

DRAWING NAME: Z:\1 drawing files\035 KHA\035-12-02 cmaq fiber sets 4 5 6\signal system 4\SET 4 - HACKS CROSS\DWG\SET 4 - CABLE LAYOUT - HACKS CROSS.dwg CL-07 Mar 02, 2015 1:29PM BY: Andrew





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X NUMBER OF CONDUCTORS, PAIRS, ETC.

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33	REMOVE EXISTING FIBER CABLE

CL-08

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

REVISIONS

DATE	DESCRIPTIONS	APPROVED
2 03/2015	ADDENDUM 2	

STEVEN HILL REGISTERED ENGINEER No. 16272 STATE OF TENNESSEE 3/19/14

POWERS HILL DESIGN
CIVIL ENGINEERING. CIVIL RESPONSIBILITY.

Kimley»Horn

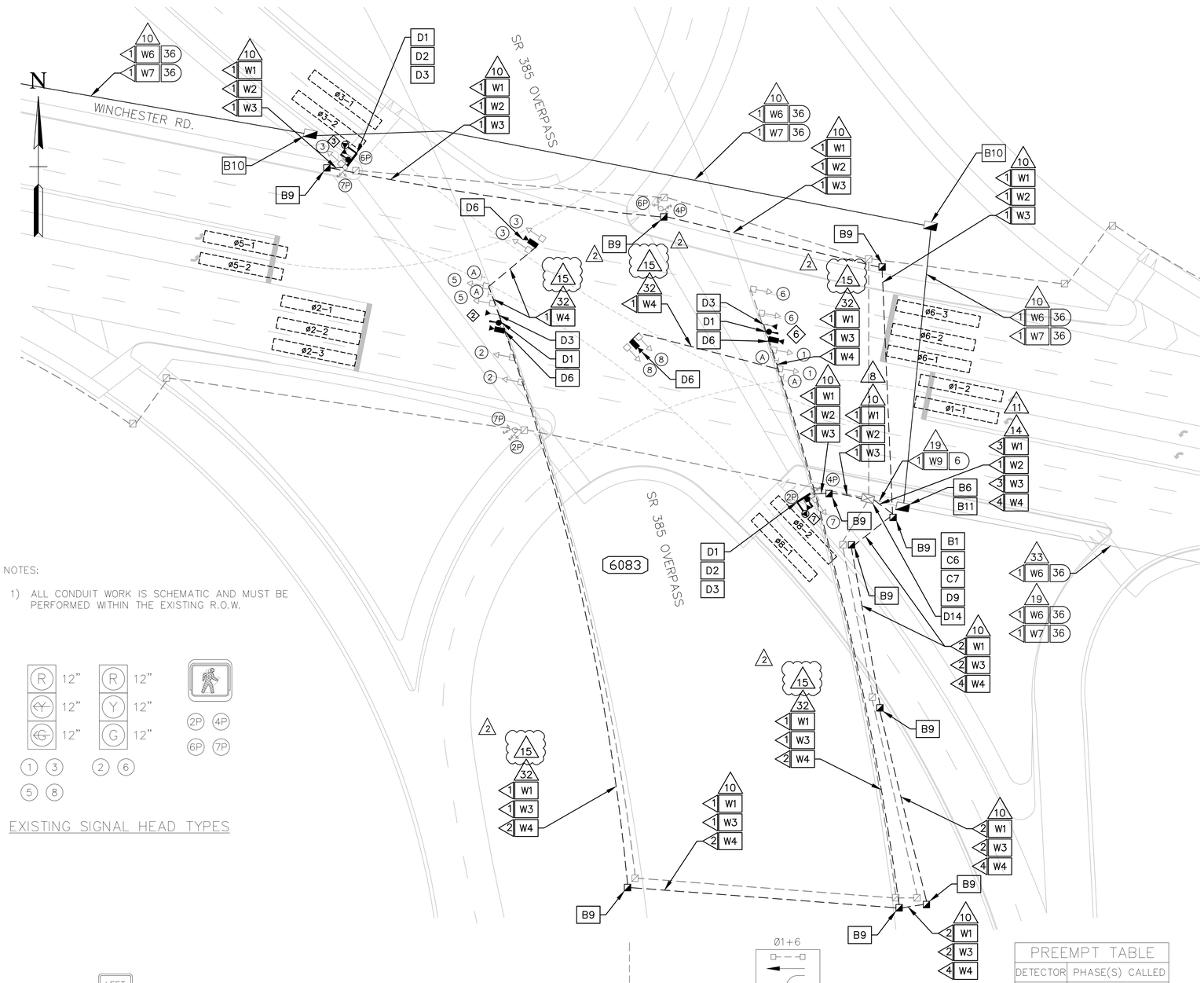
DIVISION OF PUBLIC WORKS
CONGESTION MANAGEMENT PROGRAM
SIGNAL SYSTEM PROJECT SET #4
SHELBY COUNTY, TN.

HACKS CROSS ROAD

CABLE LAYOUT
FROM 132+50 TO 157+50

SURVEY: N/A DATE: N/A BOOK: N/A
DRAFTED: APL DATE: 3/14 SCALE: 1"=50'
DESIGNED: APL DATE: 3/14 CHECKED: SH DATE: 8/14
JURISDICTION: _____ SHEET 19 OF 67

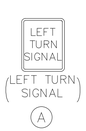
DRAWING NAME: Z:\1 drawing files\035 KHA\035-12-02 cmaq fiber sets 4 5 6\signal system 4\SET 4 - HACKS CROSS\DWG\SET 4 - CABLE LAYOUT - HACKS CROSS.dwg CL-08 Mar 02, 2015 1:29PM BY: Andrew



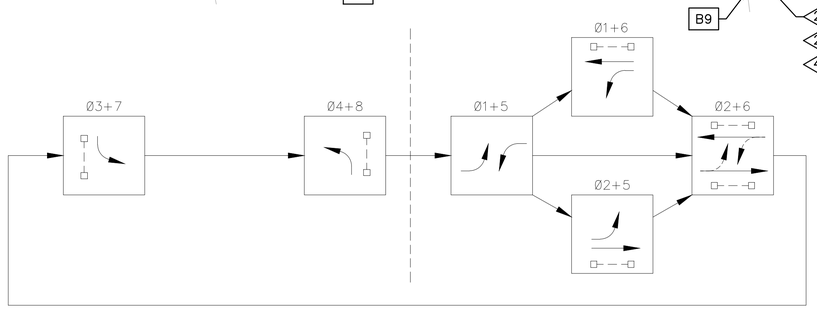
NOTES:

1) ALL CONDUIT WORK IS SCHEMATIC AND MUST BE PERFORMED WITHIN THE EXISTING R.O.W.

EXISTING SIGNAL HEAD TYPES



EXISTING OVERHEAD SIGNS

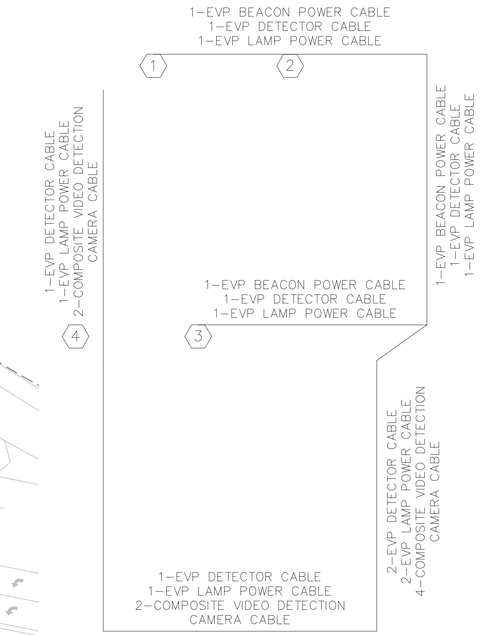


PHASE DIAGRAM

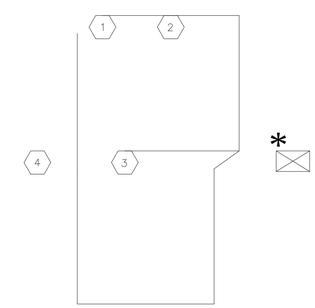
PREEMPT TABLE	
DETECTOR	PHASE(S) CALLED
2	2 & 6
3	3
6	2 & 6
7	7

ZONE	MODE	ZONE	MODE
ø1-1	PRESENCE	ø5-1	PRESENCE
ø1-2	PRESENCE	ø5-2	PRESENCE
ø2-1	PRESENCE	ø6-1	PRESENCE
ø2-2	PRESENCE	ø6-2	PRESENCE
ø2-3	PRESENCE	ø6-3	PRESENCE
ø3-1	PRESENCE	ø7-1	PRESENCE
ø3-2	PRESENCE	ø7-2	PRESENCE

ZONE ASSIGNMENT CHART



GENERAL WIRING DIAGRAM



REMOVAL DIAGRAM

* EXISTING SIGNAL POLES AND CONTROLLER CABINET TO REMAIN.
- TURN OFF STOP BAR VEHICLE DETECTOR CHANNELS ON EXISTING AMPLIFIERS IN CABINET.
- ADVANCE DETECTION AMPLIFIERS TO REMAIN.

◁ NUMBER OF CABLES, LOOPS, ETC.
X NUMBER OF CONDUCTORS, PAIRS, ETC.

REVISIONS		
DATE	DESCRIPTIONS	APPROVED
03/2015	ADDENDUM 2	

Kimley»Horn

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IL-08

DIVISION OF PUBLIC WORKS
CONGESTION MANAGEMENT PROGRAM
SIGNAL SYSTEM PROJECT SET #4
SHELBY COUNTY, TN.

WINCHESTER RD. AT S.R. 385 INTERSECTION LAYOUT

SURVEY: N/A DATE: N/A BOOK: N/A
DRAFTED: KHA DATE: 12/13 SCALE: 1"=30'
DESIGNED: KHA DATE: 12/13 CHECKED: JFC DATE: 12/13
JURISDICTION: CITY OF MEMPHIS

DRAWING NAME: K:\MEM_TPTO\115087002 - Shelby County CMP 2\Design\Level 4 - Signal System\Bid Set 4\Plans\BidSet 4-32-IL-08-Winchester at SR-385.dwg Layout Mar 02, 2015 10:43AM BY: blaine.lynch