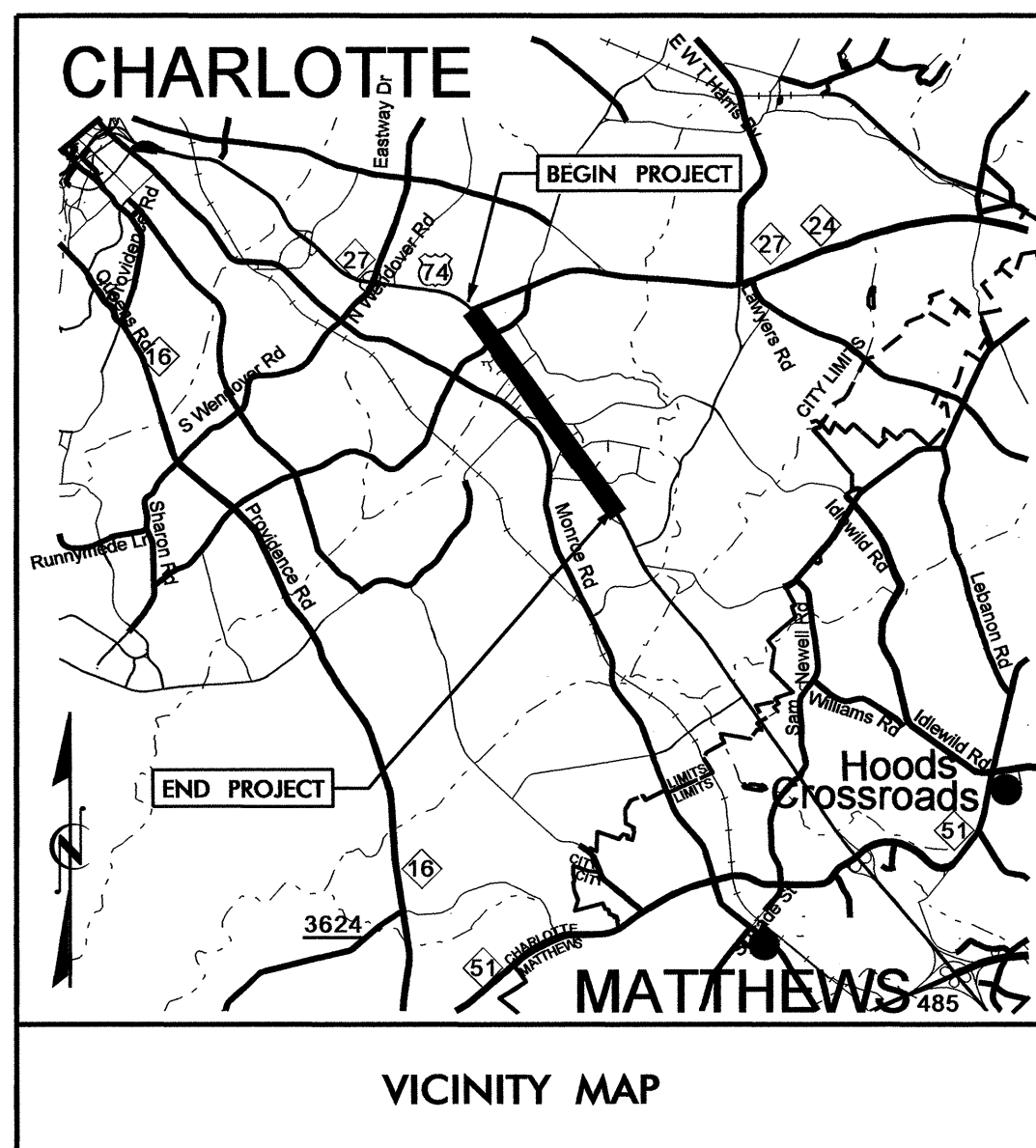


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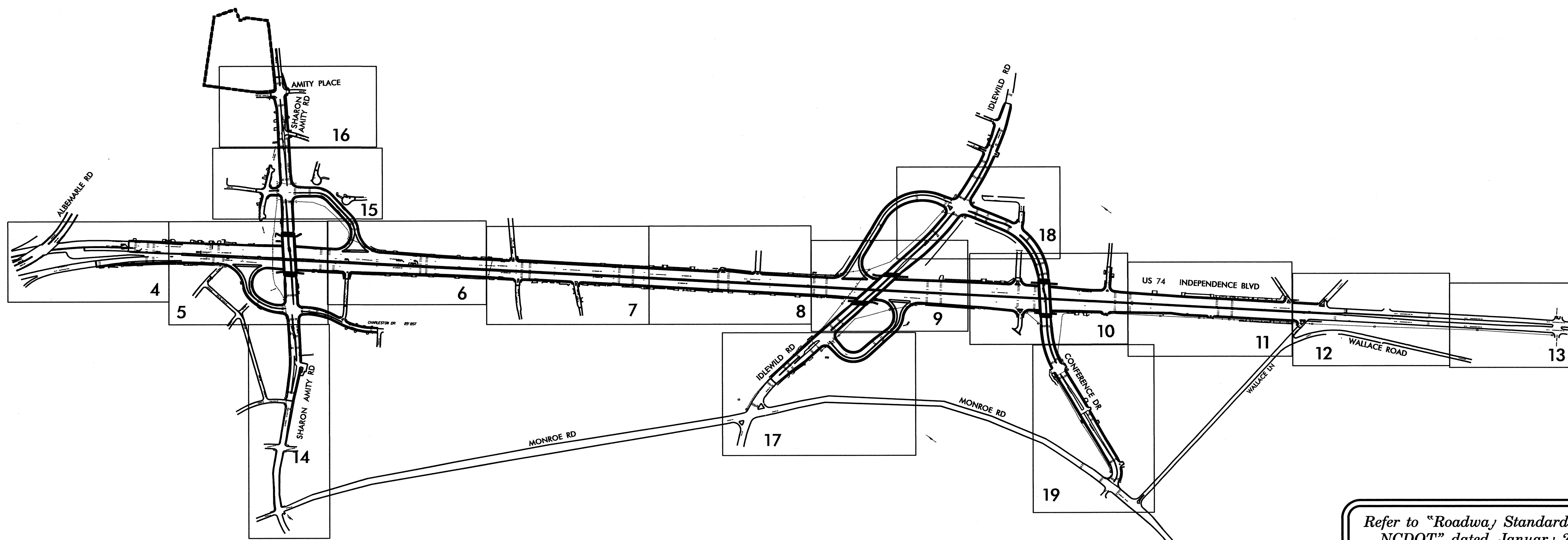


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MECKLENBURG COUNTY

**LOCATION: US 74 (INDEPENDENCE BOULEVARD)
FROM NC 2427 TO SHARON FOREST DRIVE**

TYPE OF WORK: ITS CONDUIT ROUTING PLANS



THIS PROJECT IS WITHIN THE MUNICIPAL
BOUNDARIES OF CHARLOTTE

Refer to "Roadway Standard Drawings
NCDOT" dated January, 2012 and
"Standard Specifications for Roads
and Structures" dated January, 2012.

Index of Plans

Sheet #	Location/Description
ITS. 1	TITLE SHEET
ITS. 2	ITS CONSTRUCTION NOTES
ITS. 3	CONDUIT IDENTIFICATION AND CONSTRUCTION PHASING
ITS. 4 - 19	ITS CONDUIT ROUTING PLANS

INTELLIGENT TRANSPORTATION AND SIGNALS UNIT

Contacts:

**Greg Fuller, PE - State ITS & Signals Engineer
Neil Avery - Signal Communications Project Engineer**

Prepared in the Office of:
**DIVISION OF HIGHWAYS
TRANSPORTATION MOBILITY AND SAFETY
DIVISION**



- 1 INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 2 INSTALL REA, PE - 38, (FIGURE 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 3 INSTALL REA, PE - 39, (UNDERGROUND) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 4 INSTALL SMFO CABLE
- 5 INSTALL MMFO CABLE
- 6 INSTALL FIBER OPTIC DROP CABLE
- 7 INSTALL TRACER WIRE
- 8 TRENCH OR PLOW
- 9 INSTALL PVC CONDUIT
- 10 INSTALL RIGID, GALVANIZED STEEL CONDUIT
- 11 INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD
- 12 INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL
- 13 INSTALL OUTER-DUCT POLYETHYLENE CONDUIT
- 14 INSTALL POLYETHYLENE CONDUIT
- 15 DIRECTIONAL DRILL CONDUIT
- 16 BORE AND JACK CONDUIT
- 17 INSTALL CABLE(S) IN EXISTING CONDUIT
- 18 INSTALL CABLE(S) IN NEW CONDUIT
- 19 INSTALL CABLE(S) IN EXISTING RISER
- 20 INSTALL CABLE(S) IN NEW RISER
- 21 INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS
- 22 INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 23 INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 24 INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET
- 25 INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET
- 26 TERMINATE COMMUNICATIONS CABLE ON EXISTING TELEMTRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
- 27 INSTALL NEW TELEMTRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
- 28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET
- 29 INSTALL UNDERGROUND SPLICE ENCLOSURE
- 30 INSTALL AERIAL SPLICE ENCLOSURE
- 31 INSTALL POLE MOUNTED SPLICE CABINET
- 32 INSTALL BASE MOUNTED SPLICE CABINET
- 33 REMOVE EXISTING SPLICE CABINET

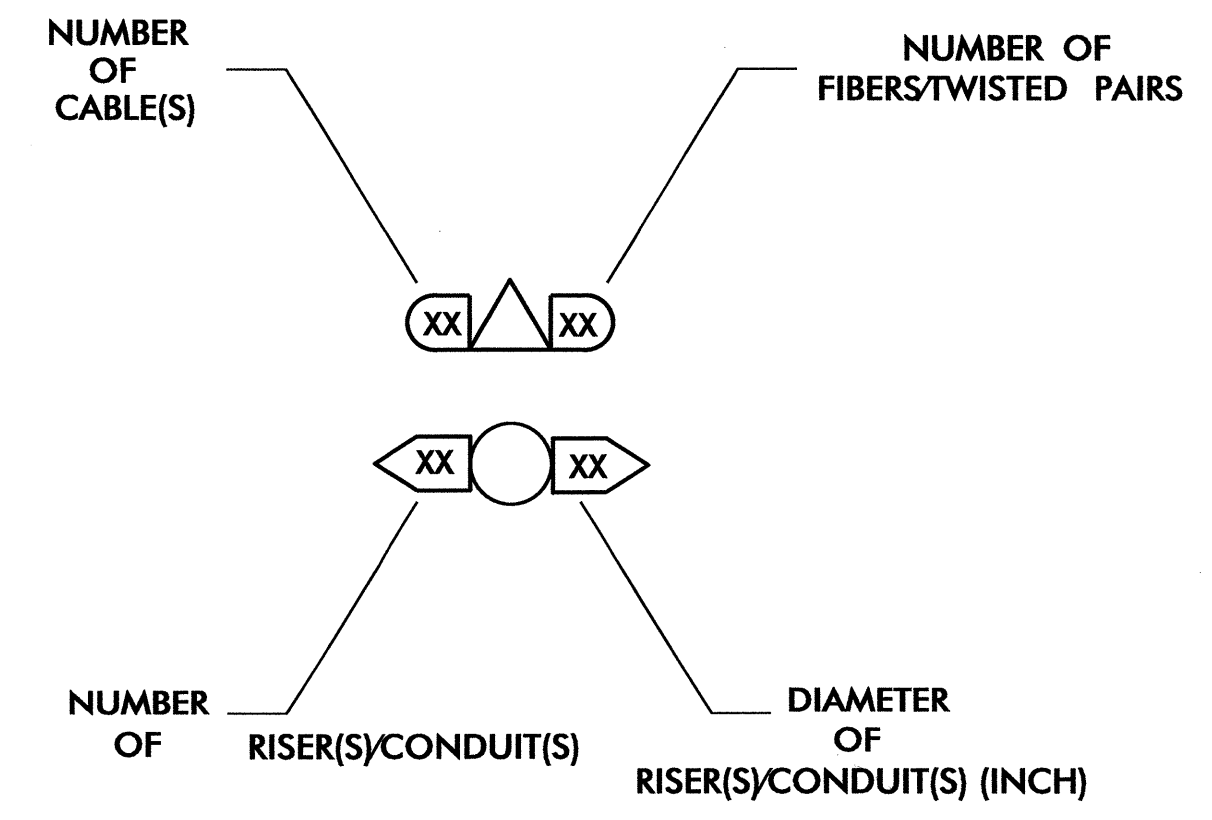
- 34 INSTALL CABINET FOUNDATION
- 35 REMOVE EXISTING CABINET FOUNDATION
- 36 INSTALL CCTV CAMERA ASSEMBLY
- 37 INSTALL CCTV CAMERA WOOD POLE
- 38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION
- 39 INSTALL JUNCTION BOX
- 40 INSTALL OVERSIZED JUNCTION BOX 30"(l) x 15"(w) x 24"(d)
- 41 INSTALL EXTRA LARGE OVERSIZED HEAVY-DUTY JUNCTION BOX 36"(l) x 24"(w) x 30"(d)
- 42 REMOVE EXISTING JUNCTION BOX
- 43 INSTALL WOOD POLE
- 44 REMOVE EXISTING WOOD POLE
- 45 INSTALL AERIAL GUY ASSEMBLY
- 46 INSTALL STANDARD GUY ASSEMBLY
- 47 INSTALL SIDEWALK GUY ASSEMBLY
- 48 INSTALL MESSENGER CABLE
- 49 REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE
- 50 REMOVE EXISTING MESSENGER CABLE
- 51 INSTALL TELEPHONE SERVICE
- 52 INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE
- 53 INSTALL DELINEATOR MARKER
- 54 STORE 20 FEET OF COMMUNICATIONS CABLE
- 55 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE
- 56 LASH CABLE(S) TO EXISTING MESSENGER CABLE
- 57 LASH CABLE(S) TO NEW MESSENGER CABLE
- 58 MODIFY EXISTING ELECTRICAL SERVICE
- 59 INSTALL NEW ELECTRICAL SERVICE

LEGEND

- FO NEW FIBER OPTIC COMMUNICATIONS CABLE
- TWIST PR NEW TWISTED PAIR COMMUNICATIONS CABLE
- EXI EXISTING COMMUNICATIONS CABLE
- REM EXISTING COMMUNICATIONS CABLE TO BE REMOVED
- NEW AERIAL GUY ASSEMBLY
- NEW CONDUIT
- EXISTING CONDUIT
- DD NEW DIRECTIONAL DRILLED CONDUIT
- B&J NEW BORED AND JACKED CONDUIT
- NEW JUNCTION BOX
- EXISTING JUNCTION BOX
- NEW WOOD POLE
- EXISTING WOOD POLE
- AERIAL SPLICE ENCLOSURE
- NEW METAL POLE
- EXISTING METAL POLE
- EXISTING CCTV ASSEMBLY
- NEW CCTV ASSEMBLY
- RTMS UNIT
- DMS DMS ASSEMBLY
- NEW STANDARD GUY ASSEMBLY
- NEW SIDEWALK GUY ASSEMBLY
- NEW CABLE STORAGE RACKS (SNOW SHOES)
- EXISTING CONTROLLER AND CABINET
- EXISTING SPLICE CABINET
- NEW SPLICE CABINET
- SIGNAL POLE
- XX-XXXX SIGNAL INVENTORY NUMBER

CONSTRUCTION NOTE SYMBOLOGY KEY

- XX INDICATES NUMBER OF CABLES, LOOPS, ETC.
- XX INDICATES NUMBER OF FIBERS PER CABLE, TWISTED PAIRS PER CABLE, ETC.
- XX INDICATES NUMBER OF RISER(S)/CONDUIT(S)
- XX INDICATES DIAMETER OF RISER(S)/CONDUIT(S) (INCH)



THESE PLANS SUPERSEDE THOSE SEALED BY GREGORY A. FULLER (SEAL NO. 023919) ON 1-6-2012

	ITS CONSTRUCTION NOTES		
	DIVISION 10 MECKLENBURG CO. CHARLOTTE PLAN DATE: AUGUST 2012 REVIEWED BY: G. A. FULLER PREPARED BY: I. N. AVERY		

CONDUIT COLOR DESIGNATION CODES:

"B" = BLACK CONDUIT DESIGNATED FOR SIGNAL COMMUNICATIONS CABLE

"O" = ORANGE CONDUIT DESIGNATED FOR ITS COMMUNICATIONS CABLE

"B/O" = BLACK CONDUIT WITH 3 ORANGE STRIPES, DESIGNATED AS A SPARE CONDUIT FOR FUTURE ITS COMMUNICATIONS CABLE

NOTE: ALL CONDUITS ARE 1½ INCHES IN DIAMETER

PROVIDE CONDUITS IN THE QUANTITY SHOWN IN THE UPPER BOX

UPPER

1 B = 1 BLACK CONDUIT

1 O = 1 ORANGE CONDUIT

1 B/O = 1 BLACK CONDUIT WITH 3 ORANGE STRIPES

PERFORM WORK DURING THE "TMP PHASE" LISTED IN THE LOWER BOX

LOWER

SAMPLE

1 B, 1 O, 1 B/O		CONDUIT SEGMENT REQUIRES: 1 BLACK CONDUIT 1 ORANGE CONDUIT 1 BLACK CONDUIT WITH ORANGE STRIPES
TMP PHASE I		

1 B, 2 O		CONDUIT SEGMENT REQUIRES: 1 BLACK CONDUIT, 2 ORANGE CONDUITS
TMP PHASE II		

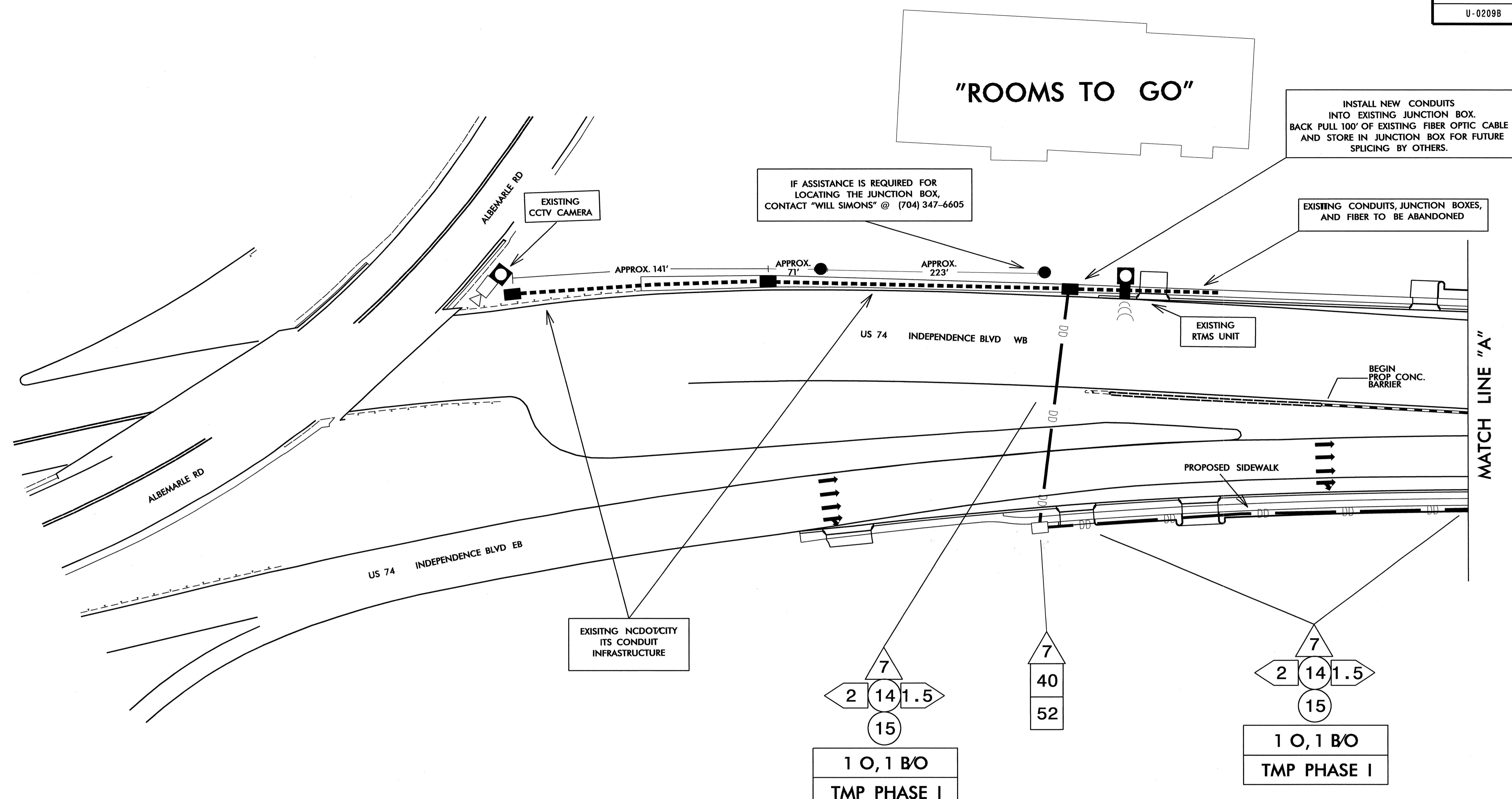
3 B/O		CONDUIT SEGMENT REQUIRES: 3 BLACK CONDUITS WITH ORANGE STRIPES
TMP PHASE III		

THESE PLANS SUPERSEDE THOSE SEALED BY GREGORY A. FULLER (SEAL NO. 023919) ON 1-6-2012

IN AREAS WHERE TRENCHING/PLOWING OF CONDUIT IS SHOWN THE CONTRACTOR MAY ELECT TO USE THE DIRECTIONAL DRILL METHOD OF CONDUIT INSTALLATION IN LIEU OF TRENCHING/PLOWING. THAT SECTION OF CONDUIT WILL BE PAID AT THE TRENCHING/PLOWING PRICE.

COORDINATE INSTALLATION OF THE CONDUIT AND JUNCTION BOX SYSTEM TO BE INSTALLED PRIOR TO INSTALLATION OF THE SIDEWALK.

	CONDUIT IDENTIFICATION & CONSTRUCTION PHASING		
	DIVISION 10 MECKLENBURG CO. CHARLOTTE	PLAN DATE: AUGUST 2012 REVIEWED BY: G. A. FULLER	
PREPARED BY: I. N. AVERY	REVISIONS	INIT.	DATE
SCALE: 0	SIGNATURE: <i>Gregory A. Fuller</i>		DATE: 9/4/12
CADD Filename:			



INSTALL NEW CONDUITS INTO EXISTING JUNCTION BOX. BACK PULL 100' OF EXISTING FIBER OPTIC CABLE AND STORE IN JUNCTION BOX FOR FUTURE SPLICING BY OTHERS.

IF ASSISTANCE IS REQUIRED FOR LOCATING THE JUNCTION BOX, CONTACT "WILL SIMONS" @ (704) 347-6605

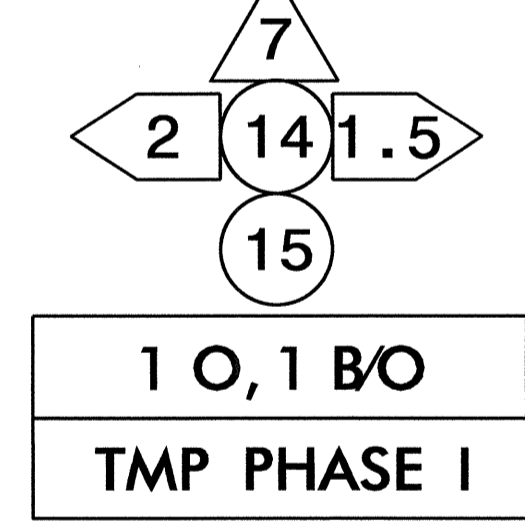
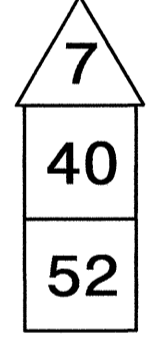
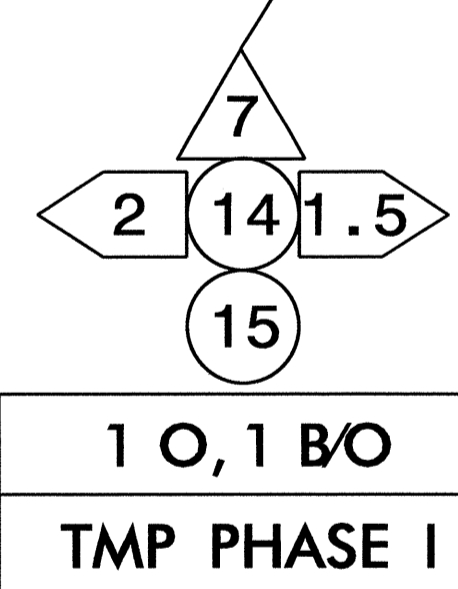
EXISTING CONDUITS, JUNCTION BOXES, AND FIBER TO BE ABANDONED

EXISTING CCTV CAMERA

EXISTING RTMS UNIT

EXISTING NCDOT/CITY ITS CONDUIT INFRASTRUCTURE

MATCH LINE "A"

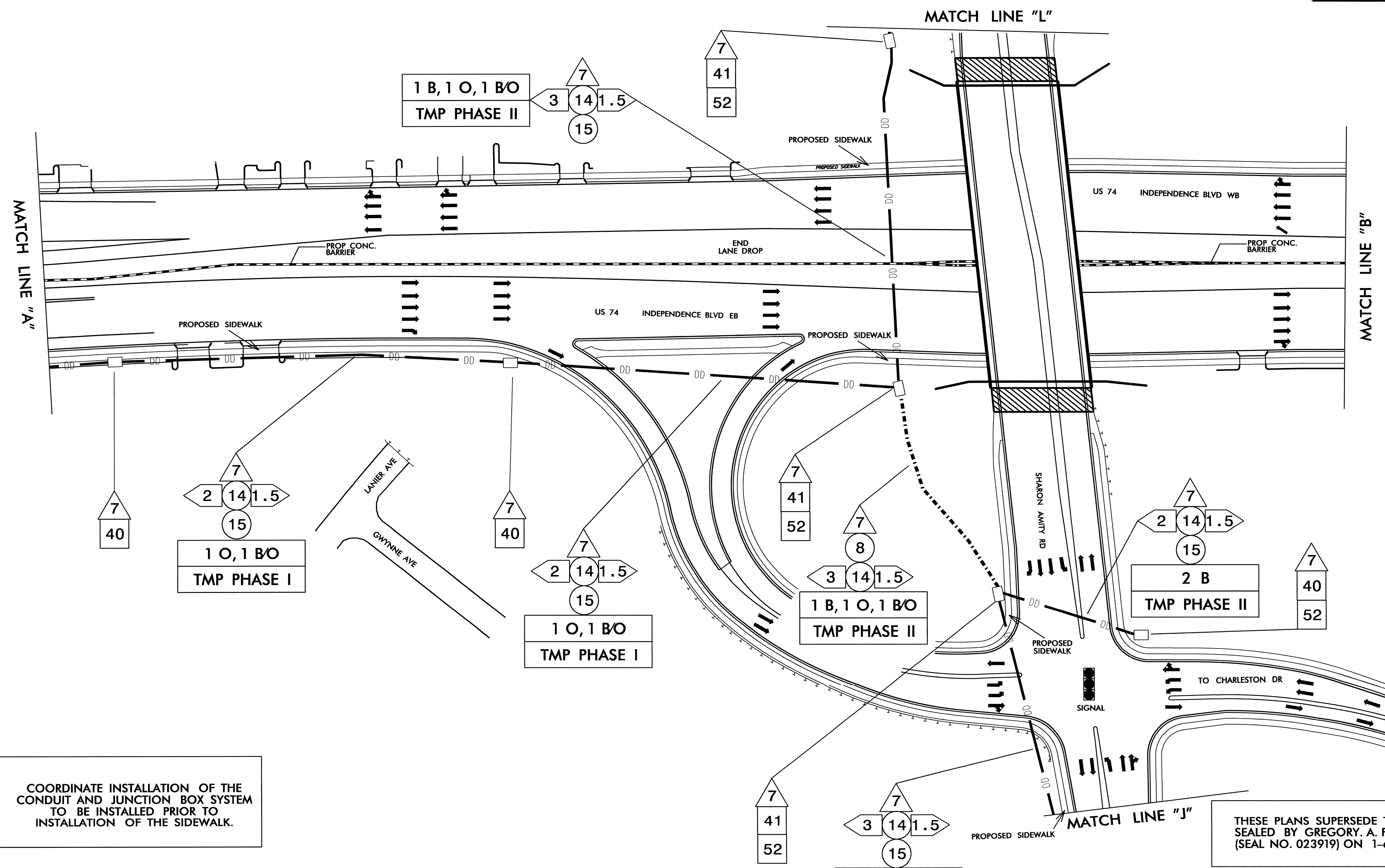


COORDINATE INSTALLATION OF THE CONDUIT AND JUNCTION BOX SYSTEM TO BE INSTALLED PRIOR TO INSTALLATION OF THE SIDEWALK.

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	DIVISION 10 MECKLENBURG CO. CHARLOTTE PLAN DATE: AUGUST 2012 REVIEWED BY: G. A. FULLER PREPARED BY: I. N. AVERY REVIEWED BY:										
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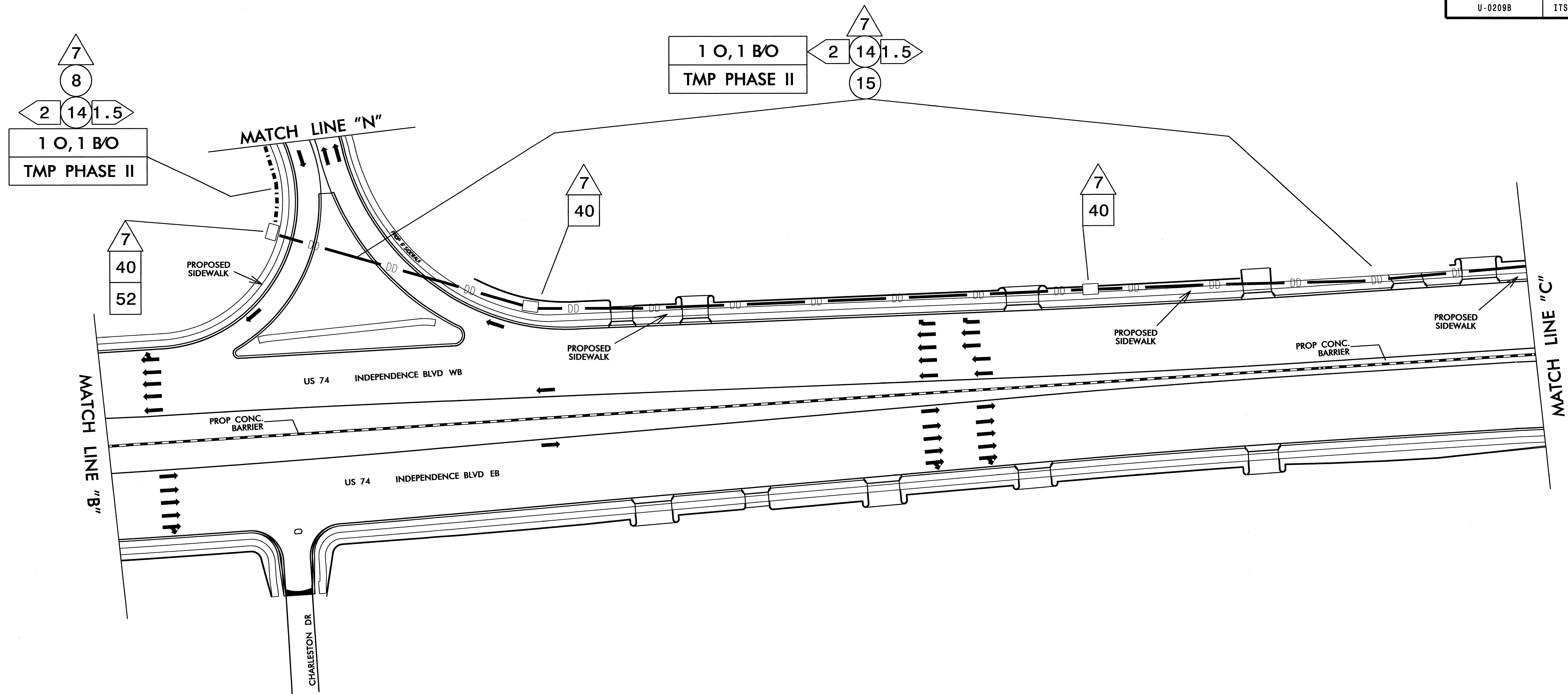


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<p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	<p>ITS CONDUIT ROUTING PLANS</p>		
	<p>DIVISION 10 MECKLENBURG CO. CHARLOTTE</p>		
<p>SCALE: 0</p>	<p>PREPARED BY: I. N. AVERY</p>	<p>REVIEWED BY: G. A. FULLER</p>	<p>DATE: 9/1/12</p>

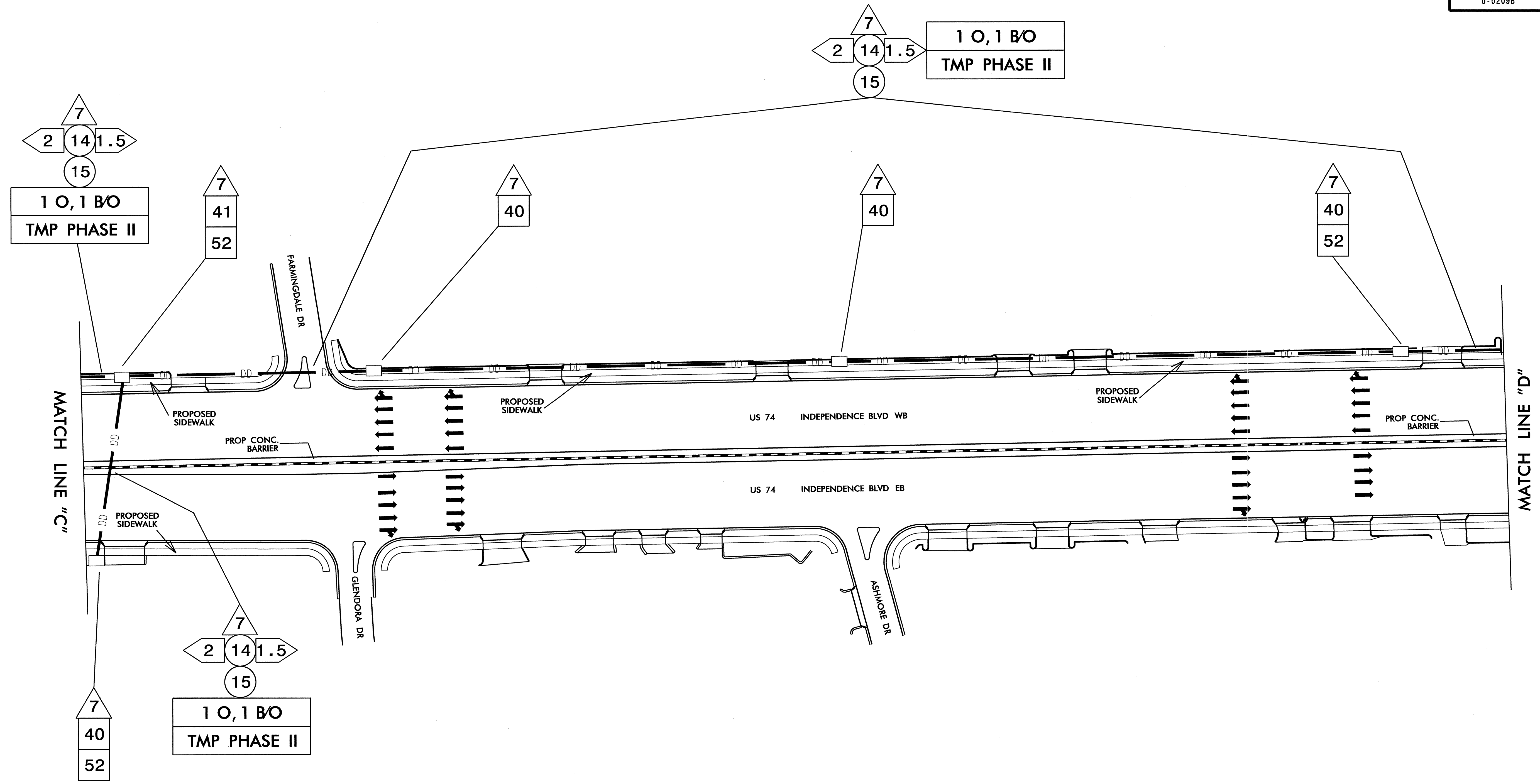


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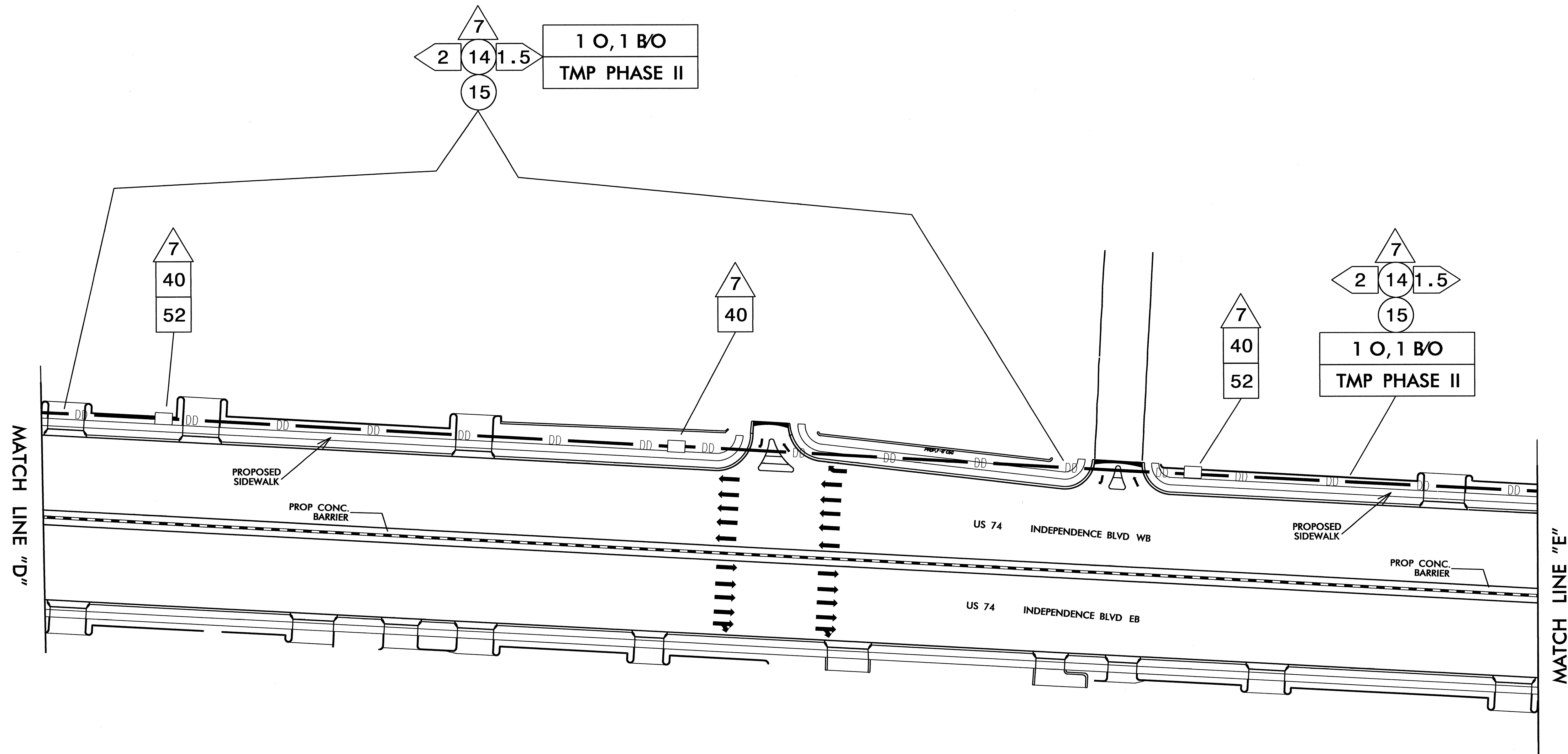


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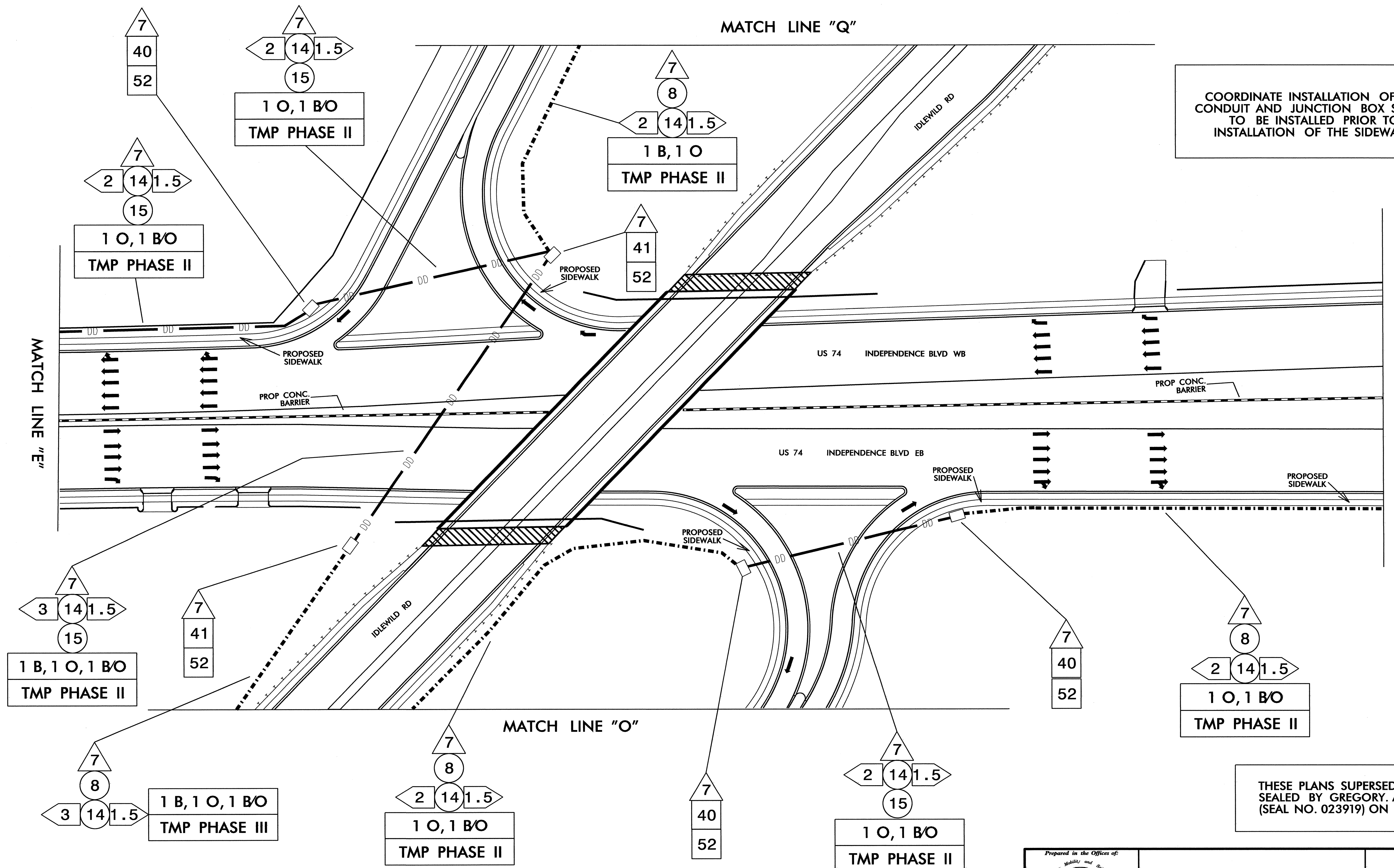


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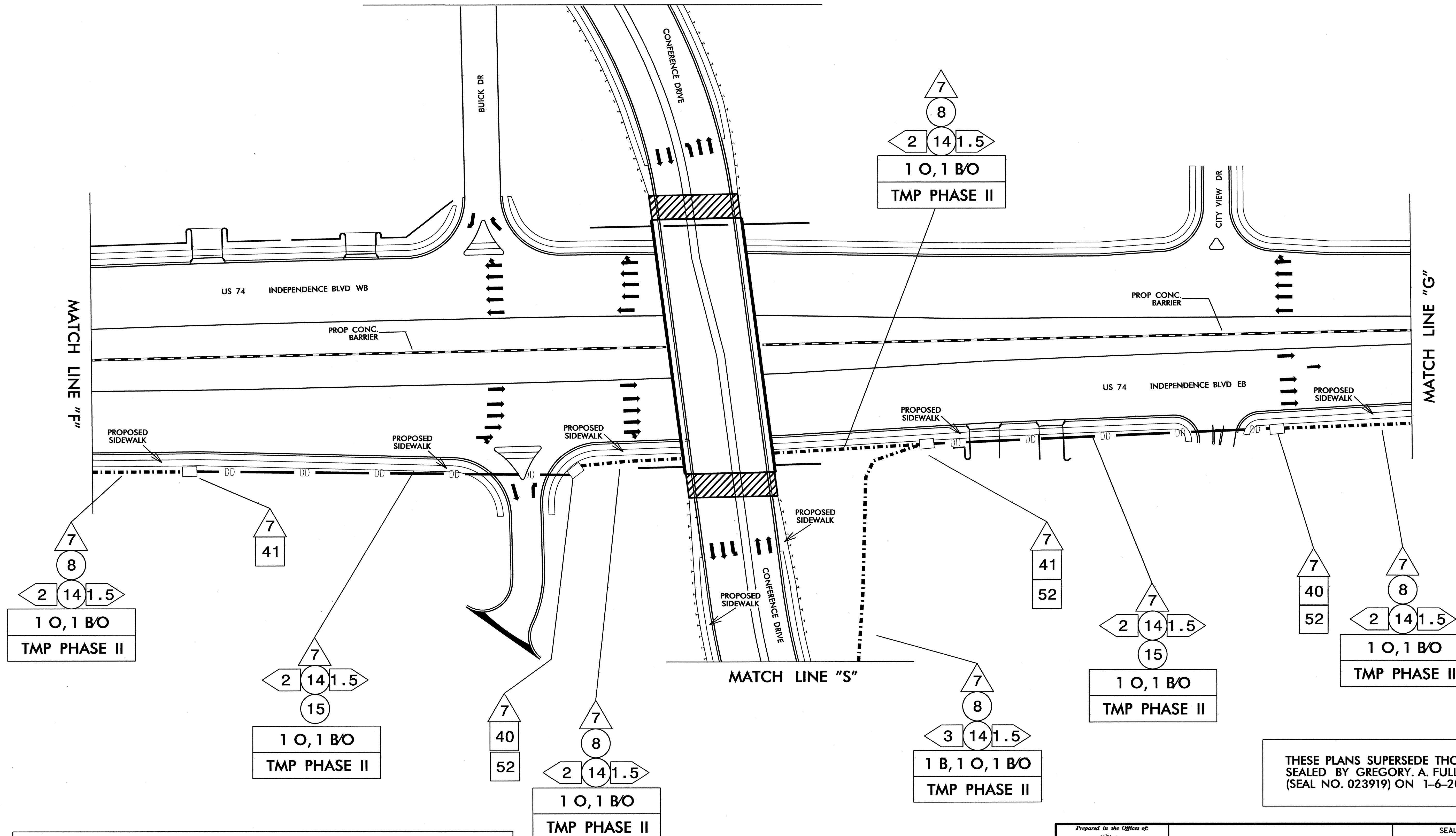
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750 N. Greenfield Pkwy., Garner, NC 27529 SCALE: 0	REVISIONS:	INIT.:	DATE:
Signature: <i>Gregory A. Fuller</i> CADD Filename:			SEAL

MATCH LINE "R"



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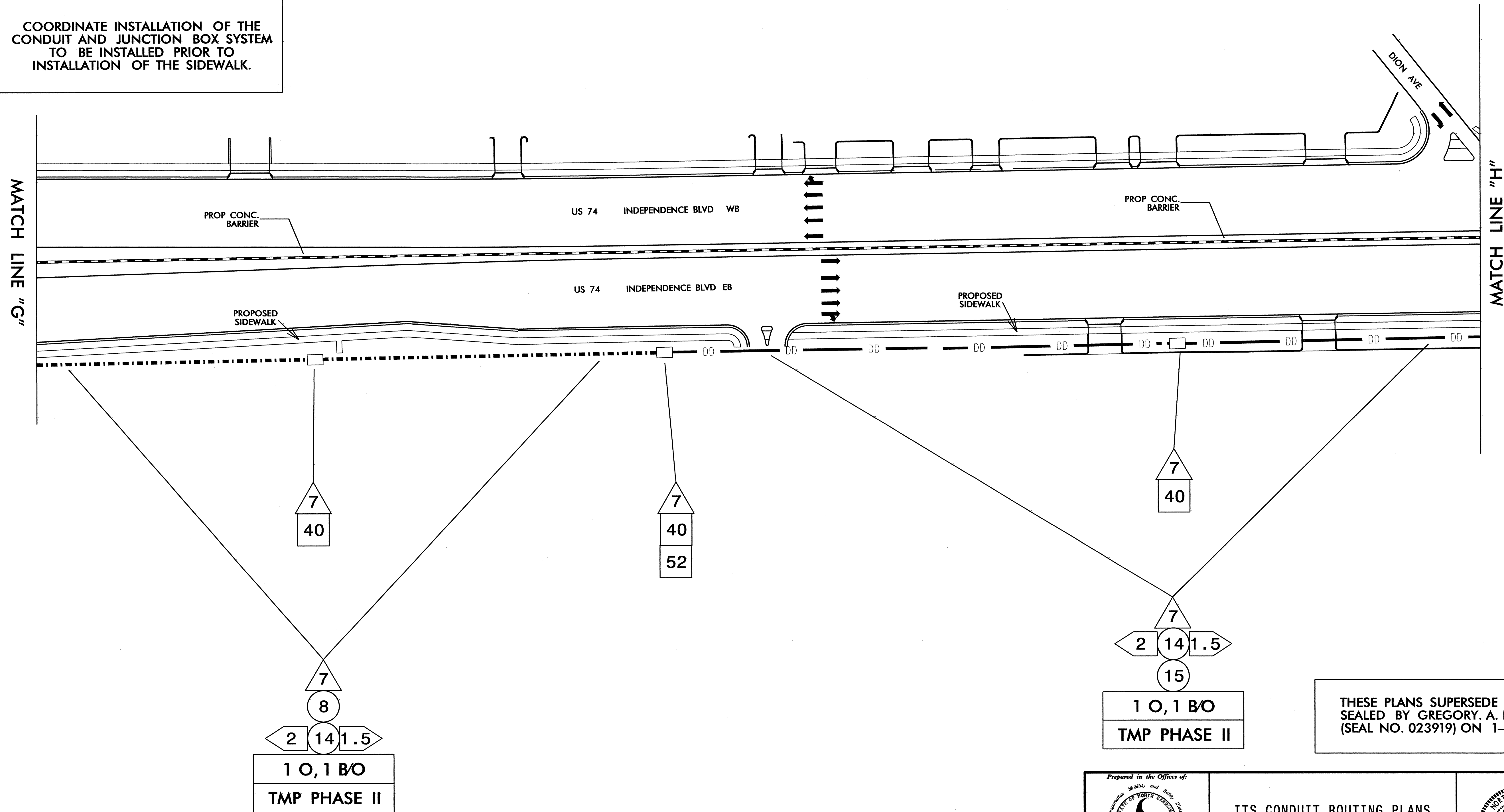
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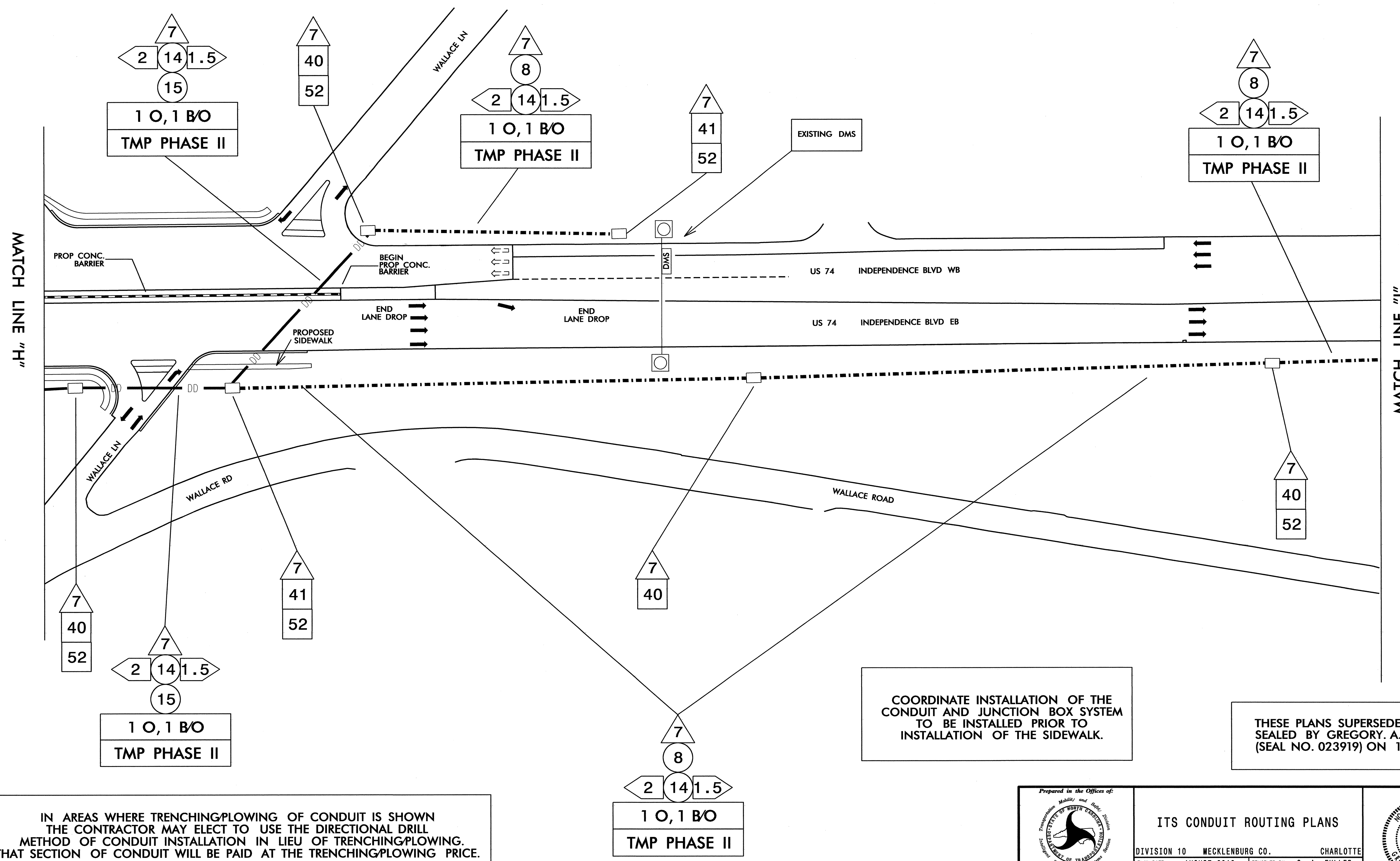


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7
8
2 14 1.5
1 O, 1 B/O
TMP PHASE II

7
2 14 1.5
15
1 O, 1 B/O
TMP PHASE II

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750 N. Greenfield Pkwy., Garner, NC 27529 SCALE: 0	REVISIONS:	INIT.:	DATE:
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7
8
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Prepared in the Offices of:

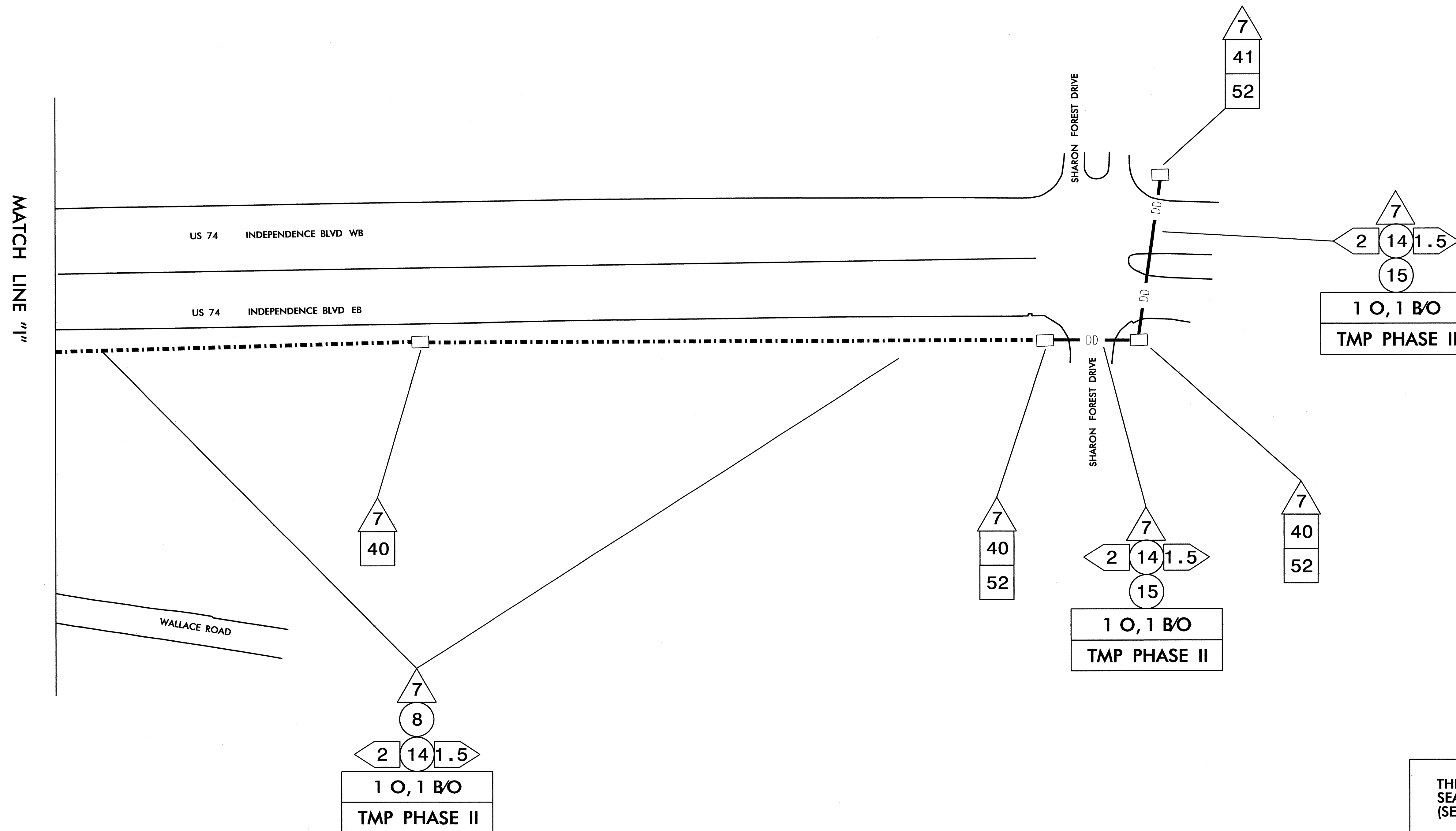
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ITS CONDUIT ROUTING PLANS

DIVISION 10 MECKLENBURG CO. CHARLOTTE	
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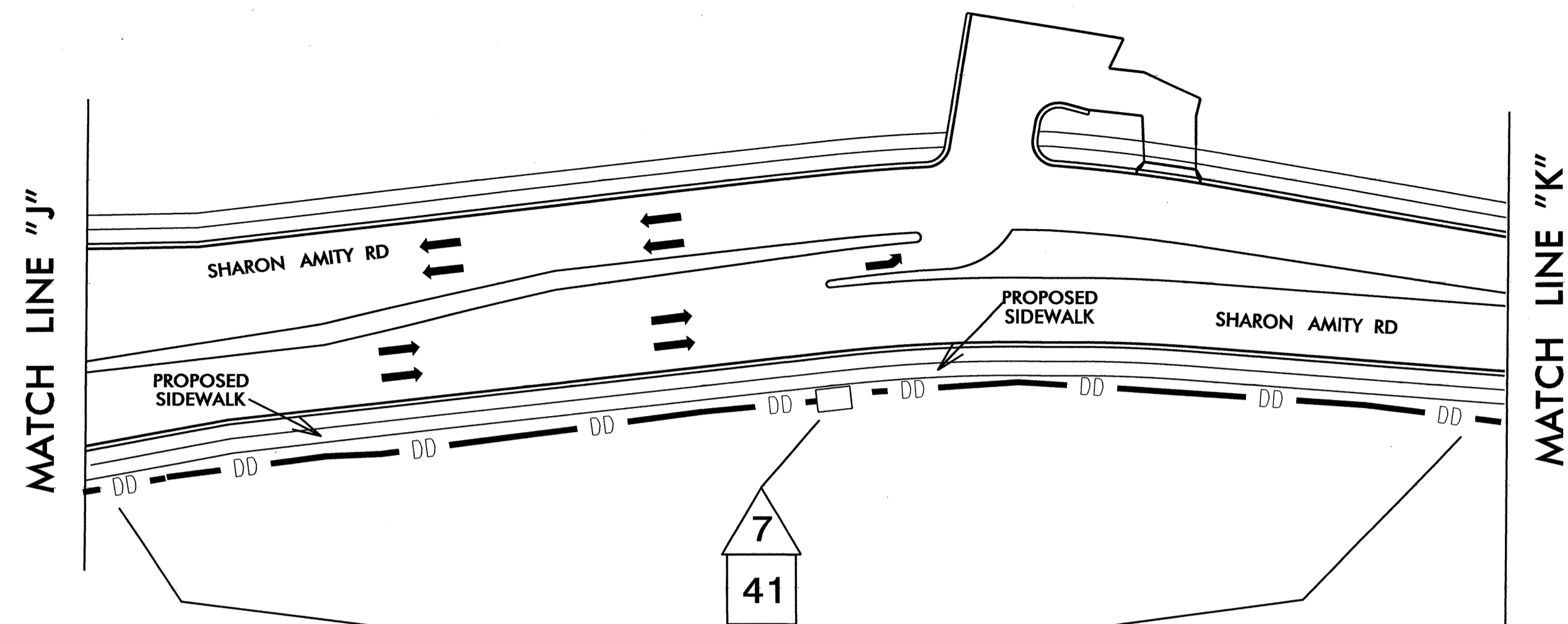
 GREGORY A. FULLER
 ENGINEER
 9/4/12
 SIGNATURE DATE
 CADD File name:



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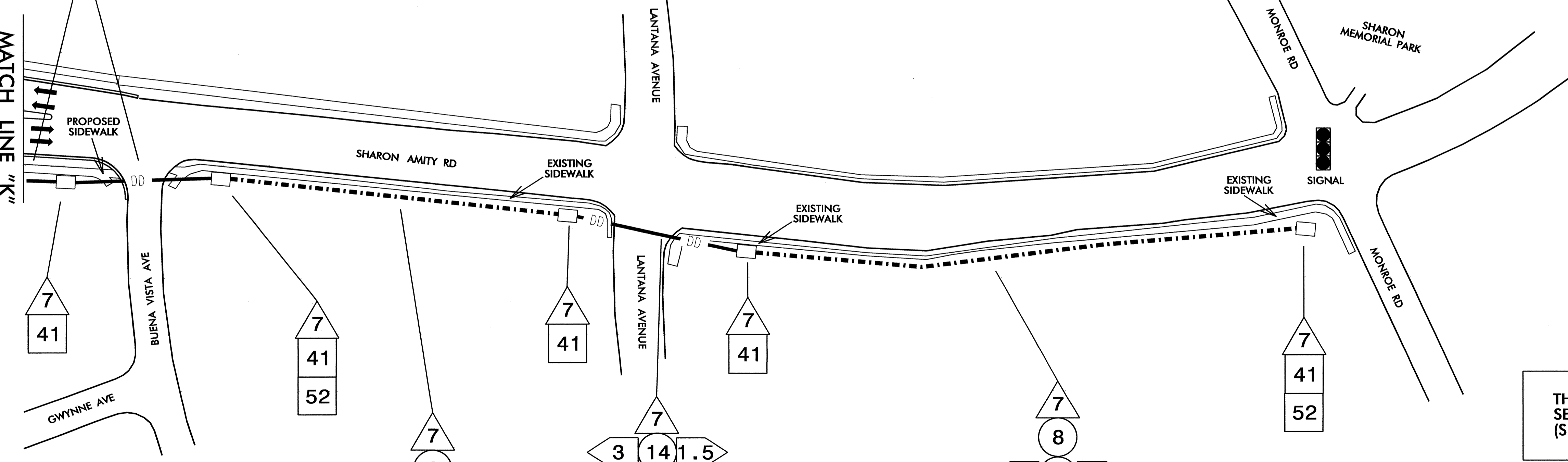
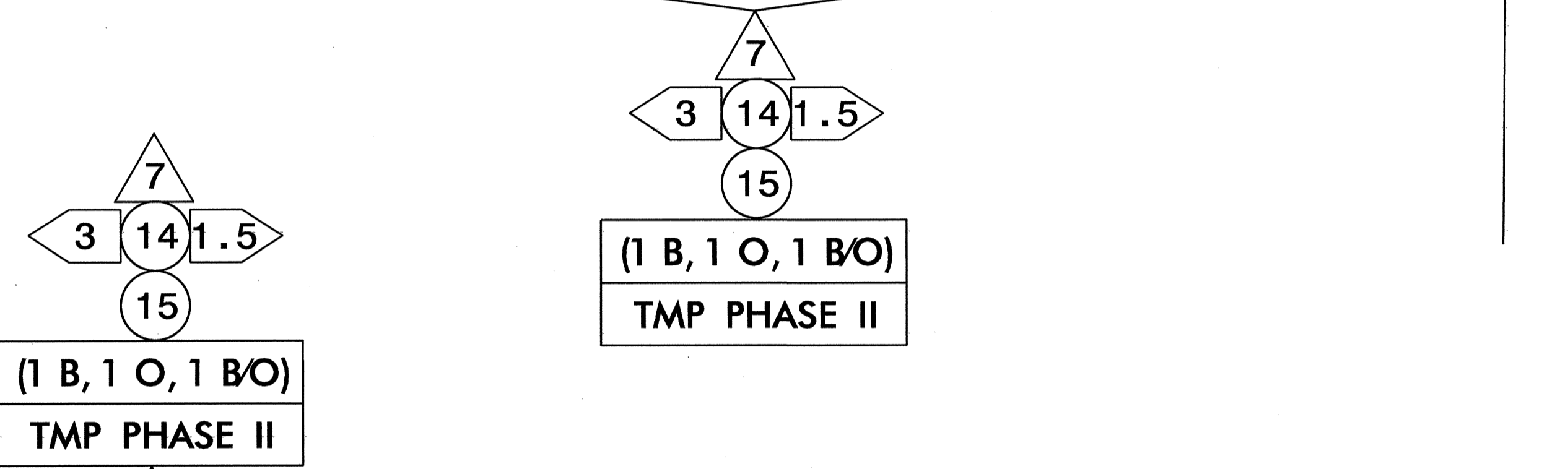
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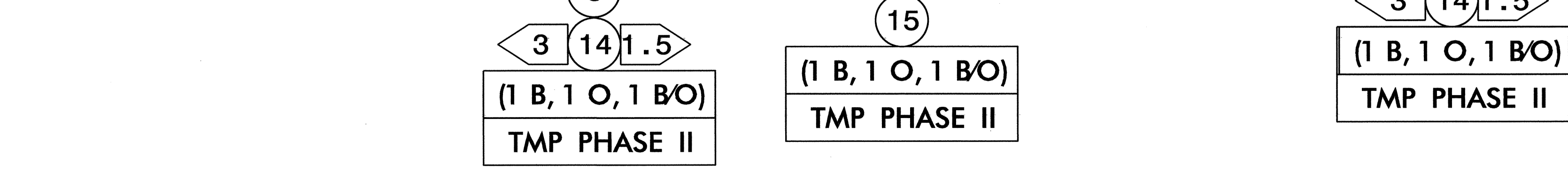


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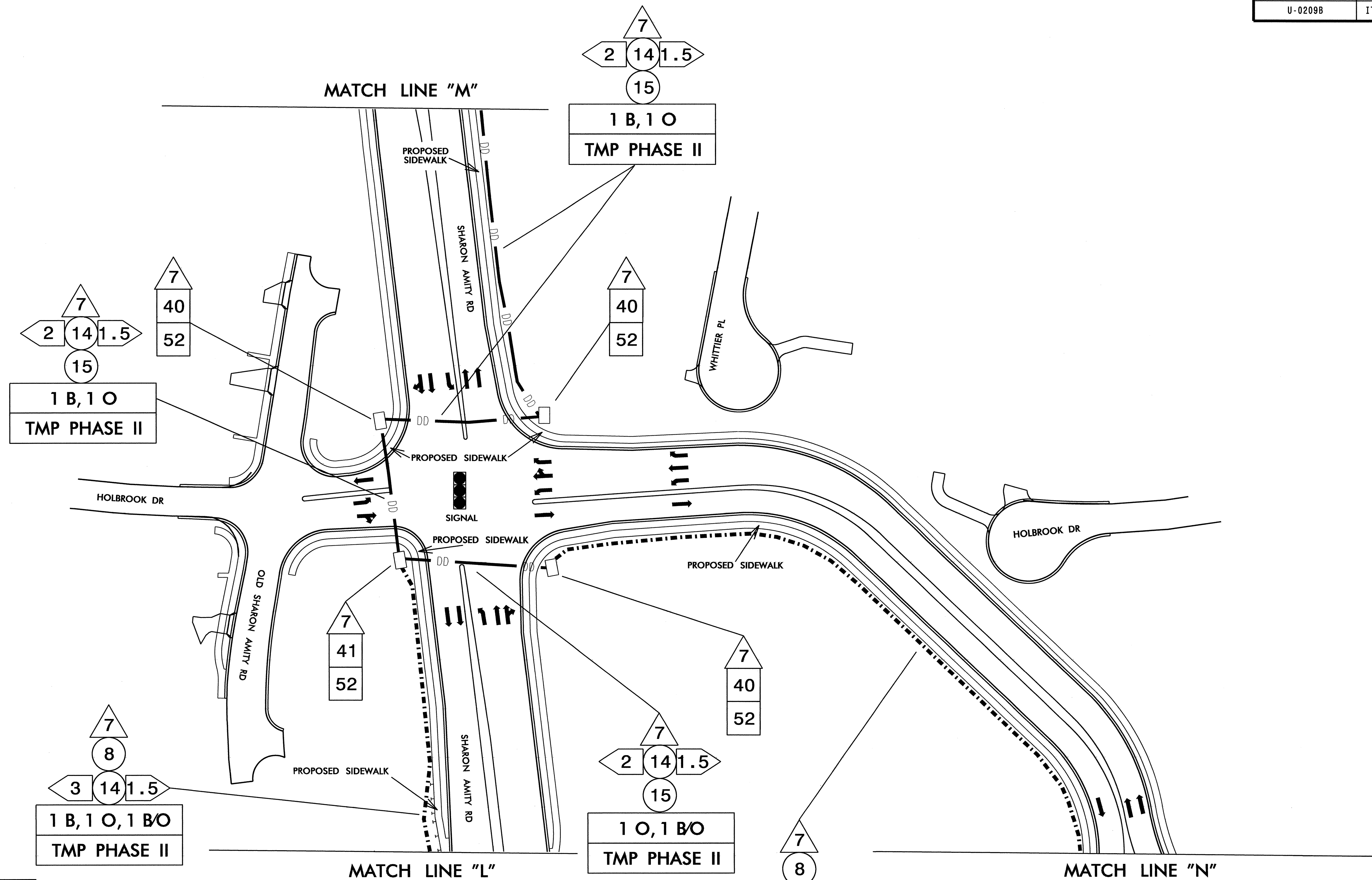
COORDINATE INSTALLATION OF THE CONDUIT AND JUNCTION BOX SYSTEM TO BE INSTALLED PRIOR TO INSTALLATION OF THE SIDEWALK.



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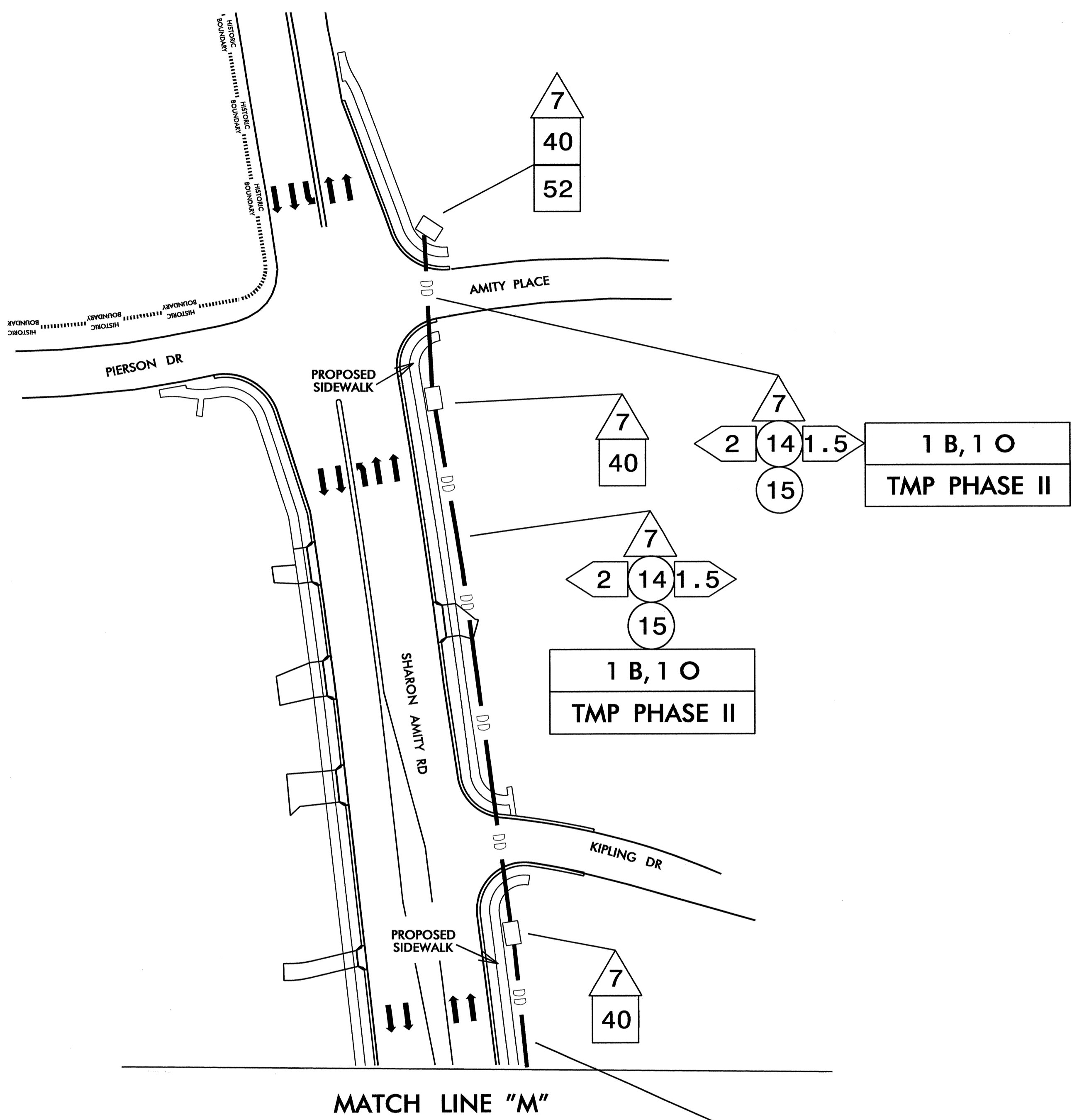


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THESE PLANS SUPERSEDE THOSE SEALED BY GREGORY A. FULLER (SEAL NO. 023919) ON 1-6-2012

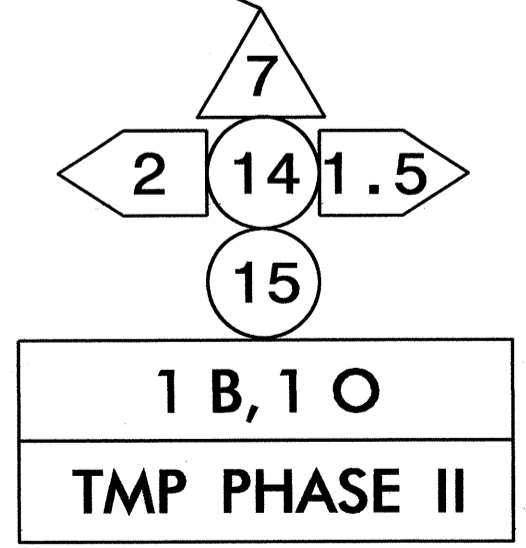
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	DIVISION 10 MECKLENBURG CO. CHARLOTTE		
	PLAN DATE: AUGUST 2012	REVIEWED BY: G. A. FULLER	
	PREPARED BY: I. N. AVERY	REVIEWED BY:	
SCALE: 0	REVISIONS	INIT.	DATE
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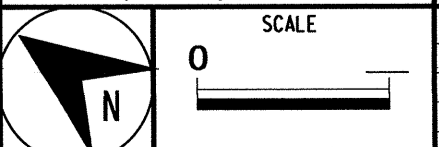


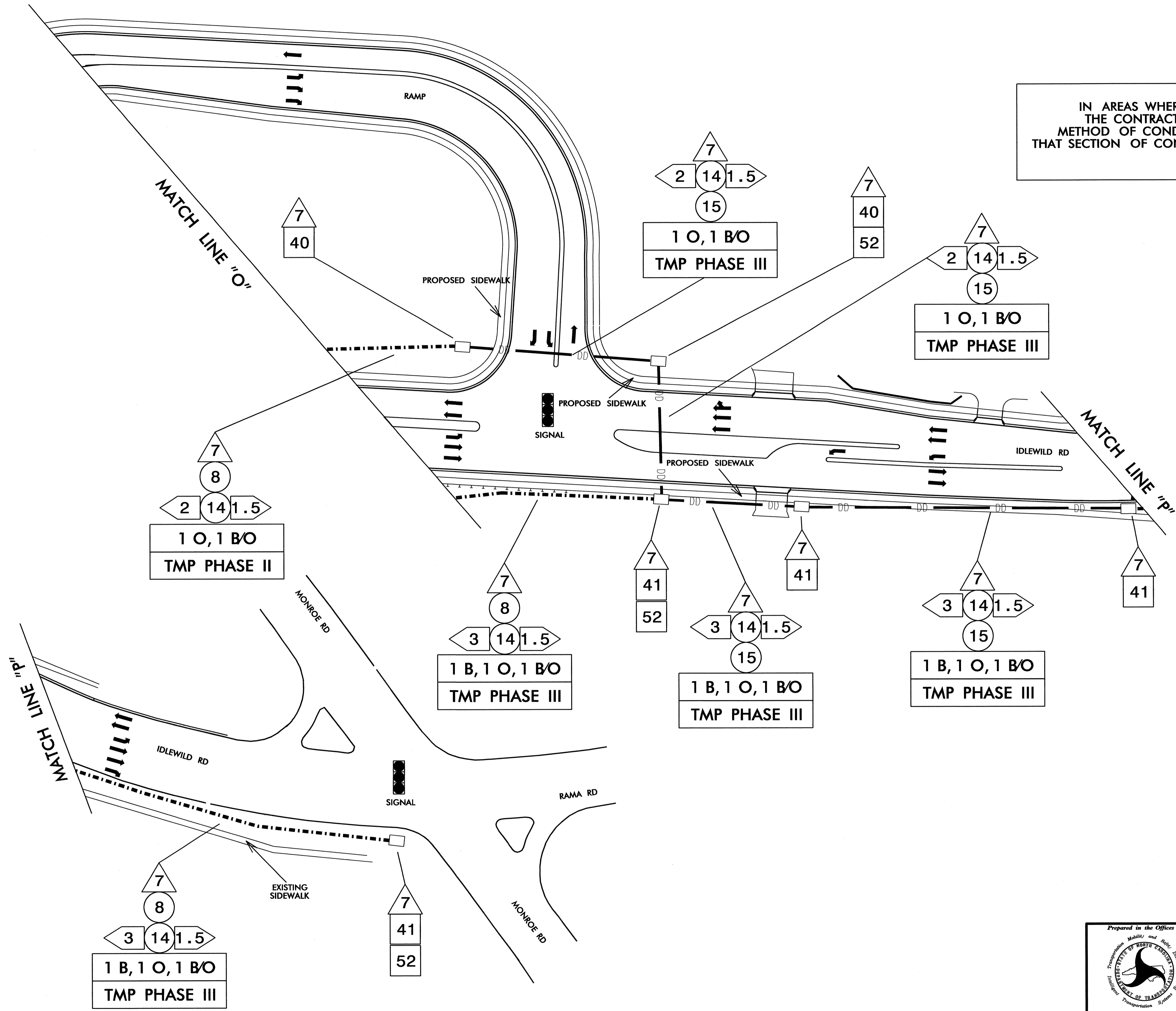
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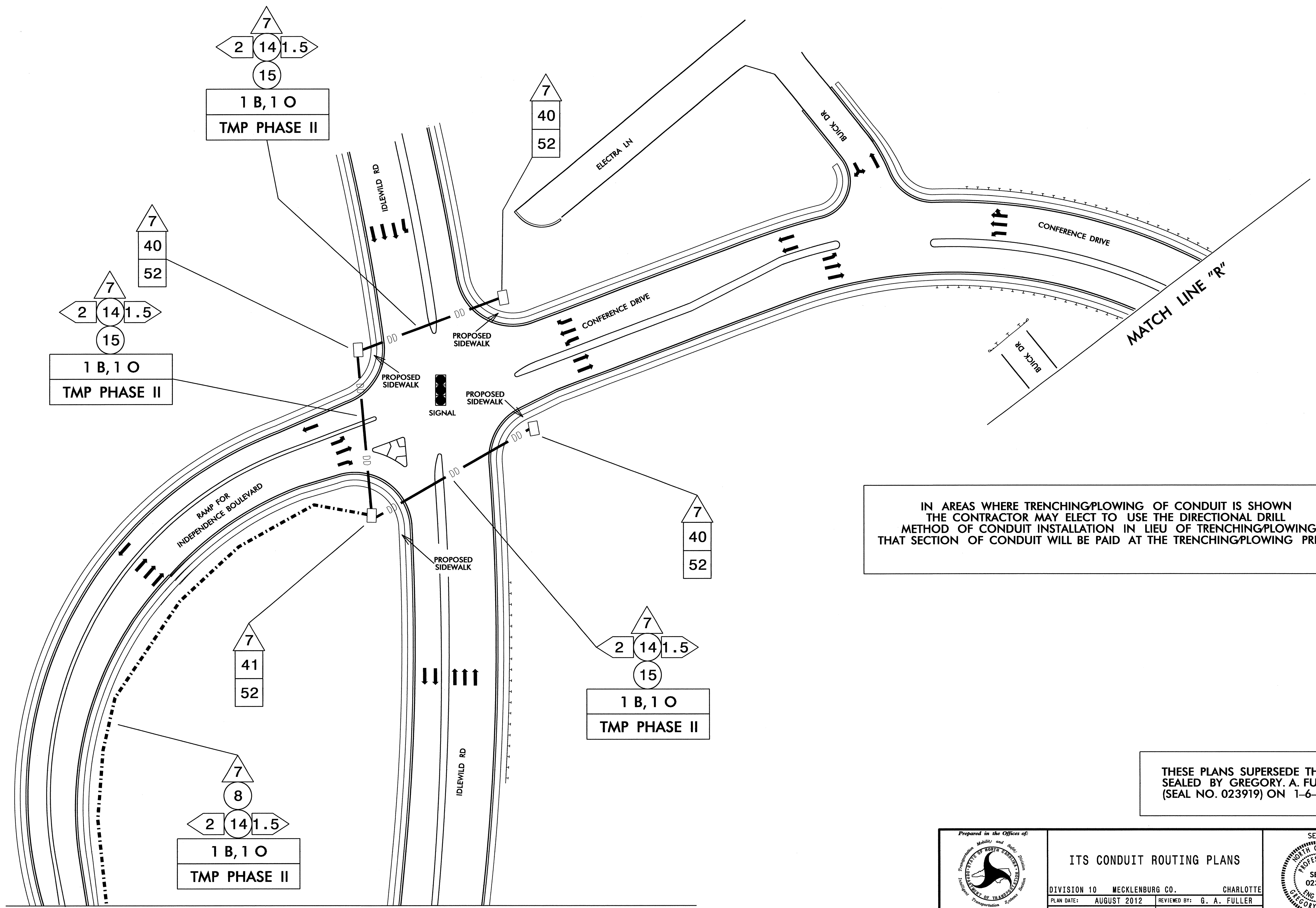
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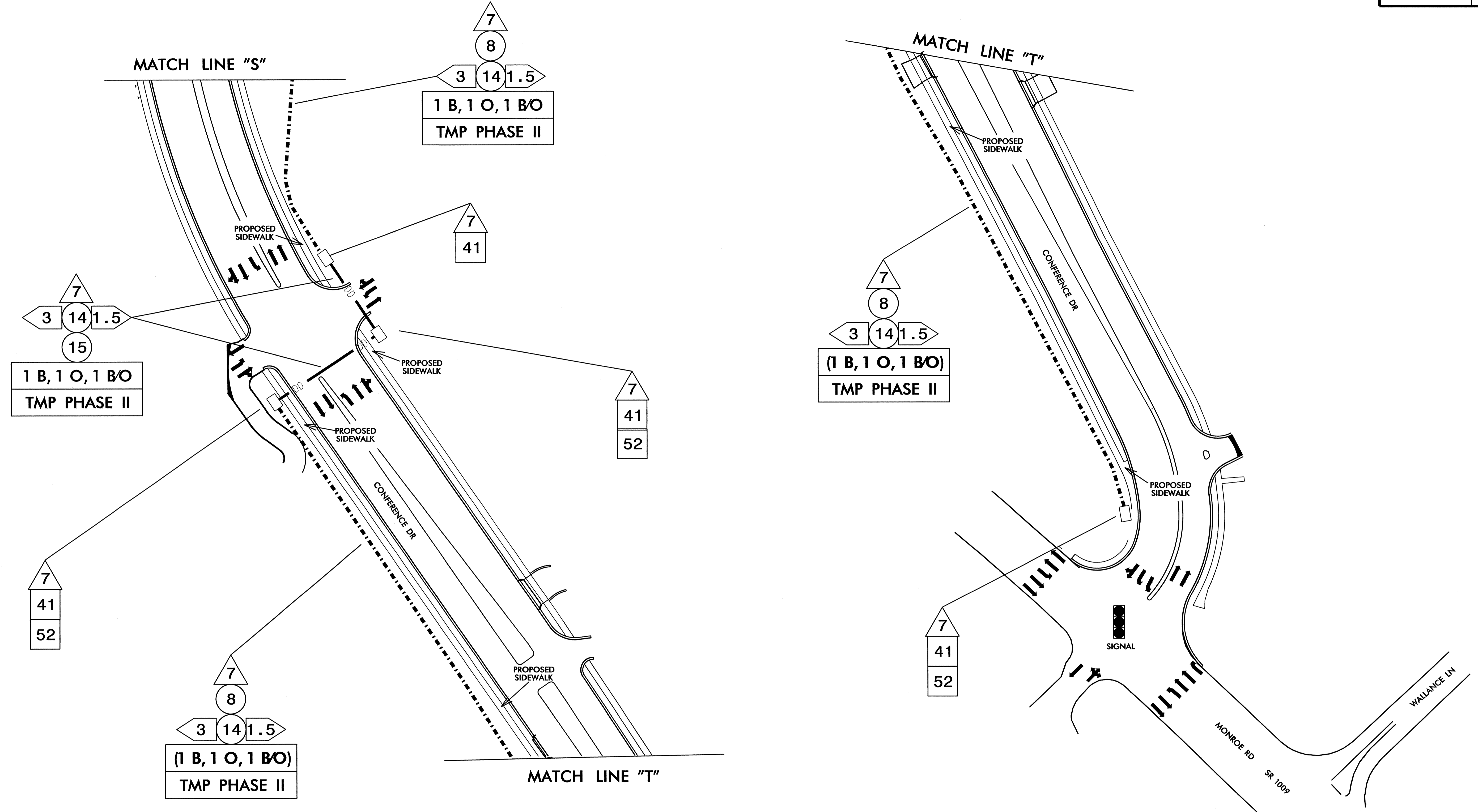


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MATCH LINE "Q"

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