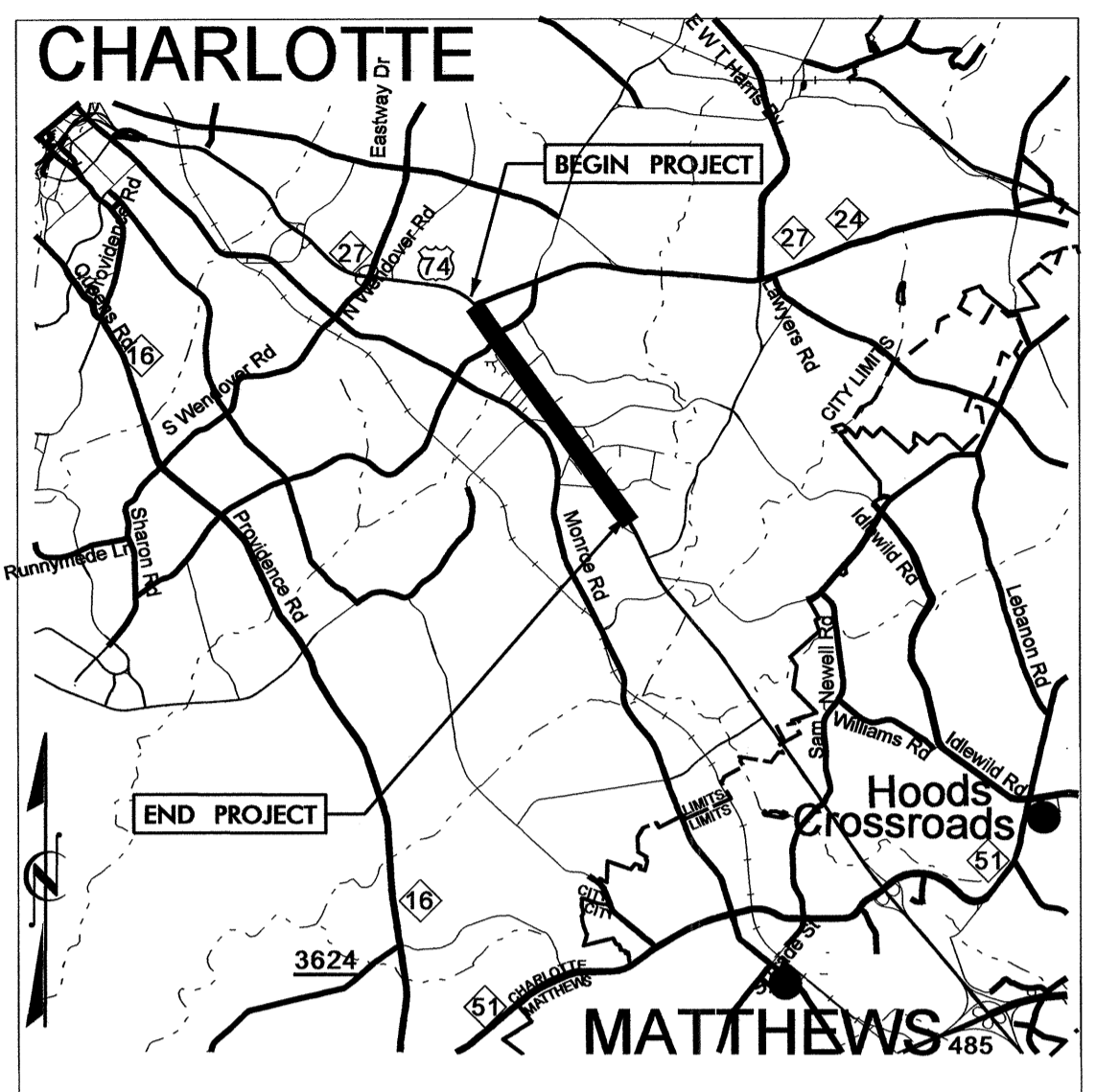


Project: U-2507A



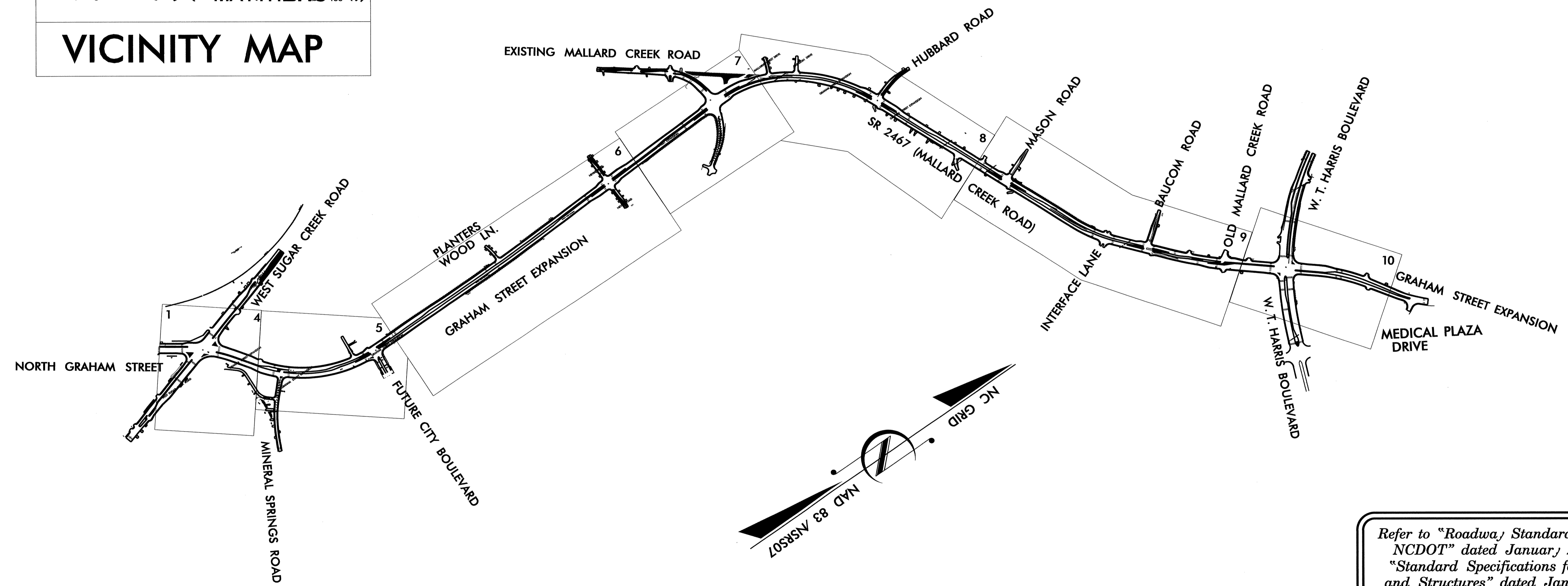
VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MECKLENBURG COUNTY

**LOCATION: CHARLOTTE - SR 2467 (MALLARD CREEK ROAD)
FROM SR 2480 (SUGAR CREEK ROAD) TO
SR 2665 (HARRIS BOULEVARD)**

TYPE OF WORK: ITS CONDUIT ROUTING PLANS



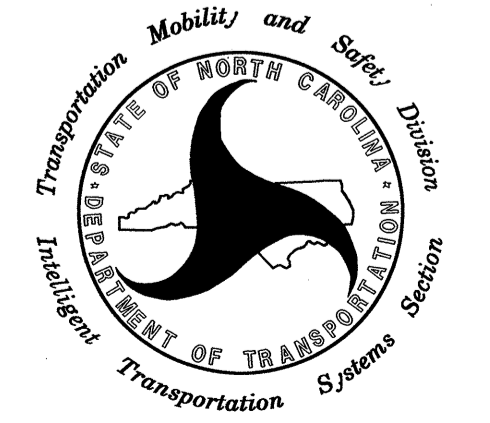
Refer to "Roadway Standard Drawings NCDOT" dated January, 2012 and "Standard Specifications for Roads and Structures" dated January, 2012.

Index of Plans	
Sheet #	Location/Description
ITS. 1	TITLE SHEET
ITS. 2	ITS CONSTRUCTION NOTES
ITS. 3	CONDUIT IDENTIFICATION AND CONSTRUCTION PHASING
ITS. 4 - 10	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



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- 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 TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
- 27 INSTALL NEW TELEMETRY 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

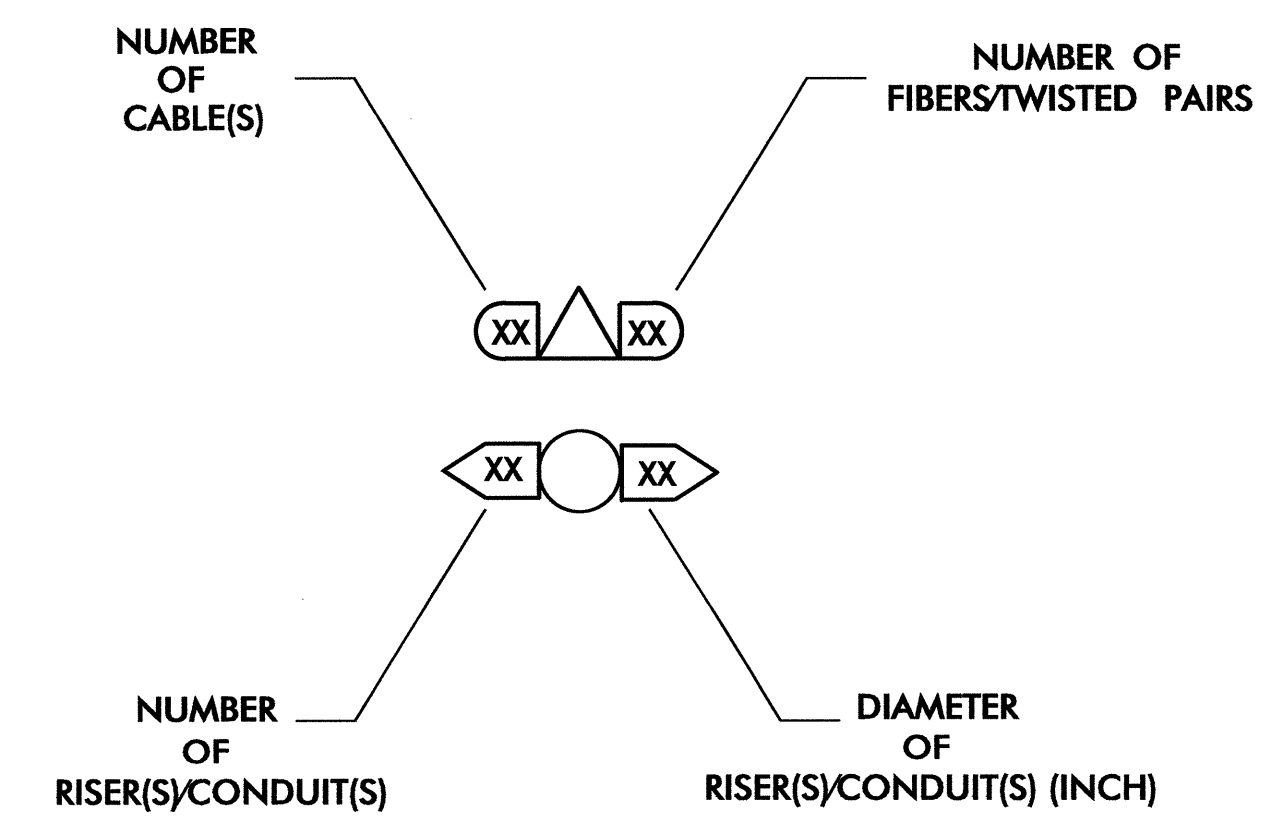
- 34 INSTALL CABINET FOUNDATION
- 35 REMOVE EXISTING CABINET FOUNDATION
- 36 INSTALL CCTV CAMERA ASSEMBLY
- 37 INSTALL CCTV CAMERA WOOD POLE
- 38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION
- 39 INSTALL JUNCTION BOX
- 40 INSTALL OVERSIZED JUNCTION BOX 30"(l) x 15"(w) x 24"(d)
- 41 INSTALL EXTRA LARGE 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
	DMS	RTMS UNIT
	DMS	DMS ASSEMBLY
	DMS	NEW STANDARD GUY ASSEMBLY
	DMS	NEW SIDEWALK GUY ASSEMBLY
	DMS	NEW CABLE STORAGE RACKS (SNOW SHOES)
	DMS	EXISTING CONTROLLER AND CABINET
	DMS	EXISTING SPLICE CABINET
	DMS	NEW SPLICE CABINET
	DMS	SIGNAL POLE
	XX-XXXX	SIGNAL INVENTORY NUMBER

CONSTRUCTION NOTE SYMBOLOGY KEY

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



 Prepared in the Offices of: 750 N. Greenfield Pkwy., Garner, NC 27529	ITS CONSTRUCTION NOTES		SEAL NORTH CAROLINA PROFESSIONAL SEAL 023919 ENGINEER GREGORY A. FULLER
	DIVISION 10 MECKLENBURG CO. CHARLOTTE PLAN DATE: MARCH 2012 REVIEWED BY: G. A. FULLER PREPARED BY: I. N. AVERY		
SCALE 		SIGNATURE: DATE: 3/20/12 CADD File Name:	

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 2 INCHES IN DIAMETER

PROVIDE CONDUITS IN THE QUANTITY SHOWN IN THE UPPER BOX

UPPER

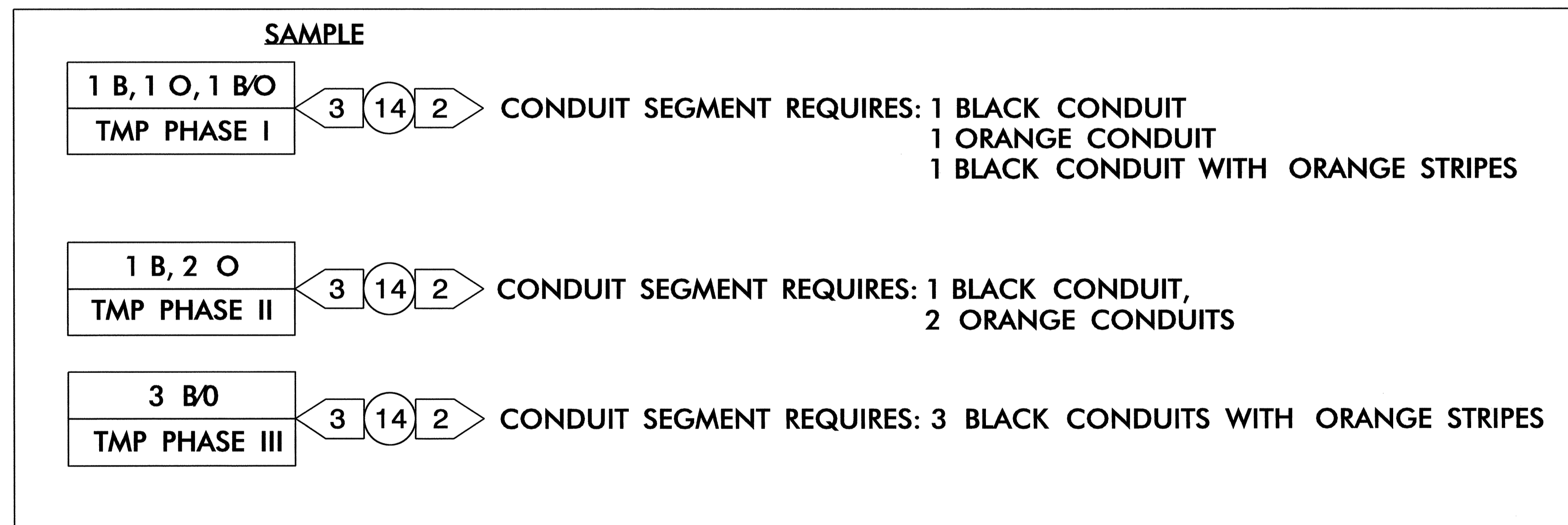
1 B = 1 BLACK CONDUIT

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

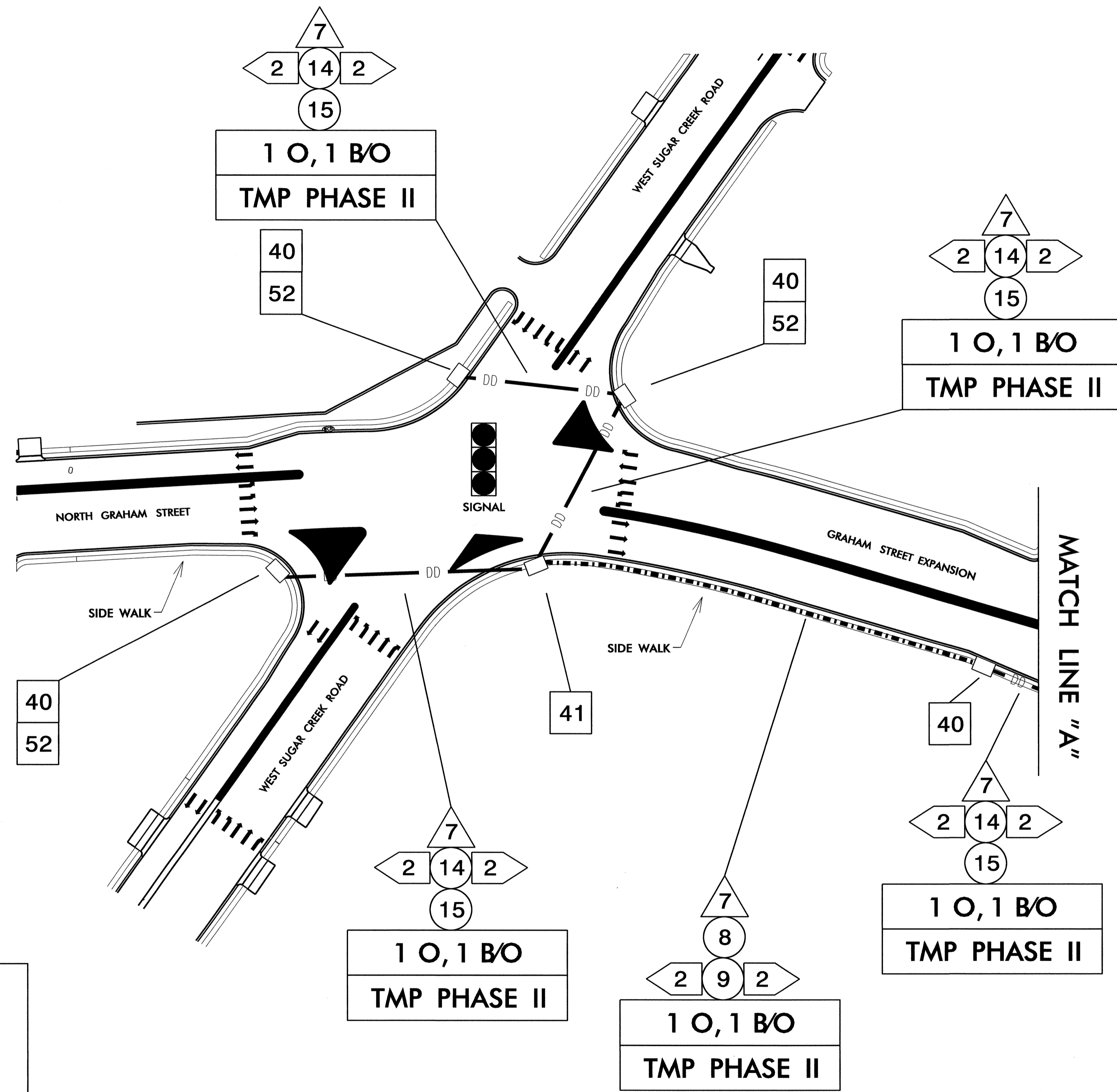
LOWER



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.

 <small>750 N. Greenfield Pkwy., Garner, NC 27529</small>	CONDUIT IDENTIFICATION & CONSTRUCTION PHASING		 <small>SEAL</small> <small>PROFESSIONAL ENGINEER</small> <small>GREGORY A. FULLER</small>												
	<small>DIVISION 10 MECKLENBURG CO. CHARLOTTE</small> <small>PLAN DATE: MARCH 2012 REVIEWED BY: G. A. FULLER</small> <small>PREPARED BY: I. N. AVERY</small>														
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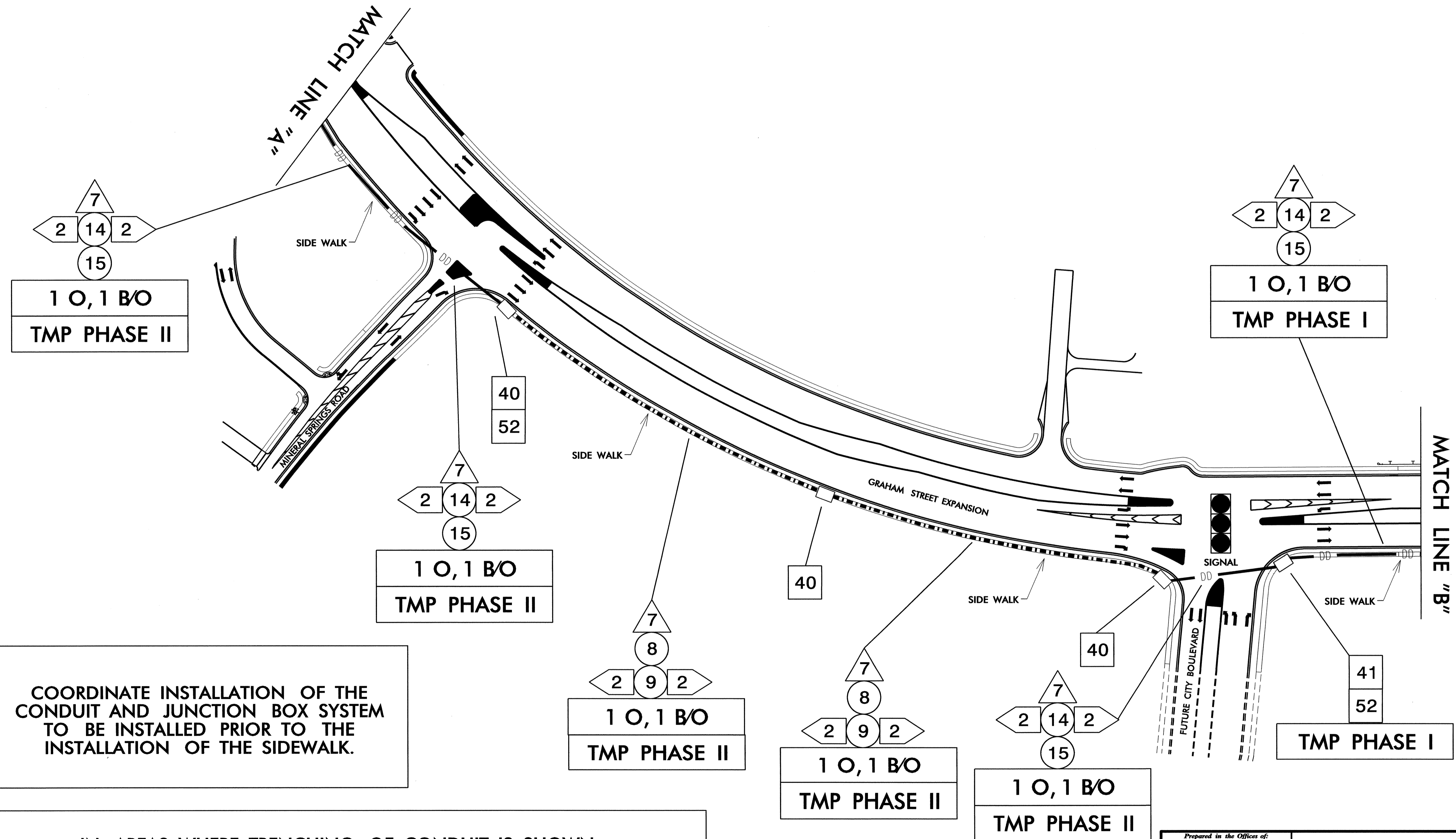


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	DIVISION 10 MECKLENBURG CO. CHARLOTTE		
PLAN DATE: MARCH 2012 PREPARED BY: I.N. AVERY	REVIEWED BY: G. A. FULLER		3/20/12 DATE
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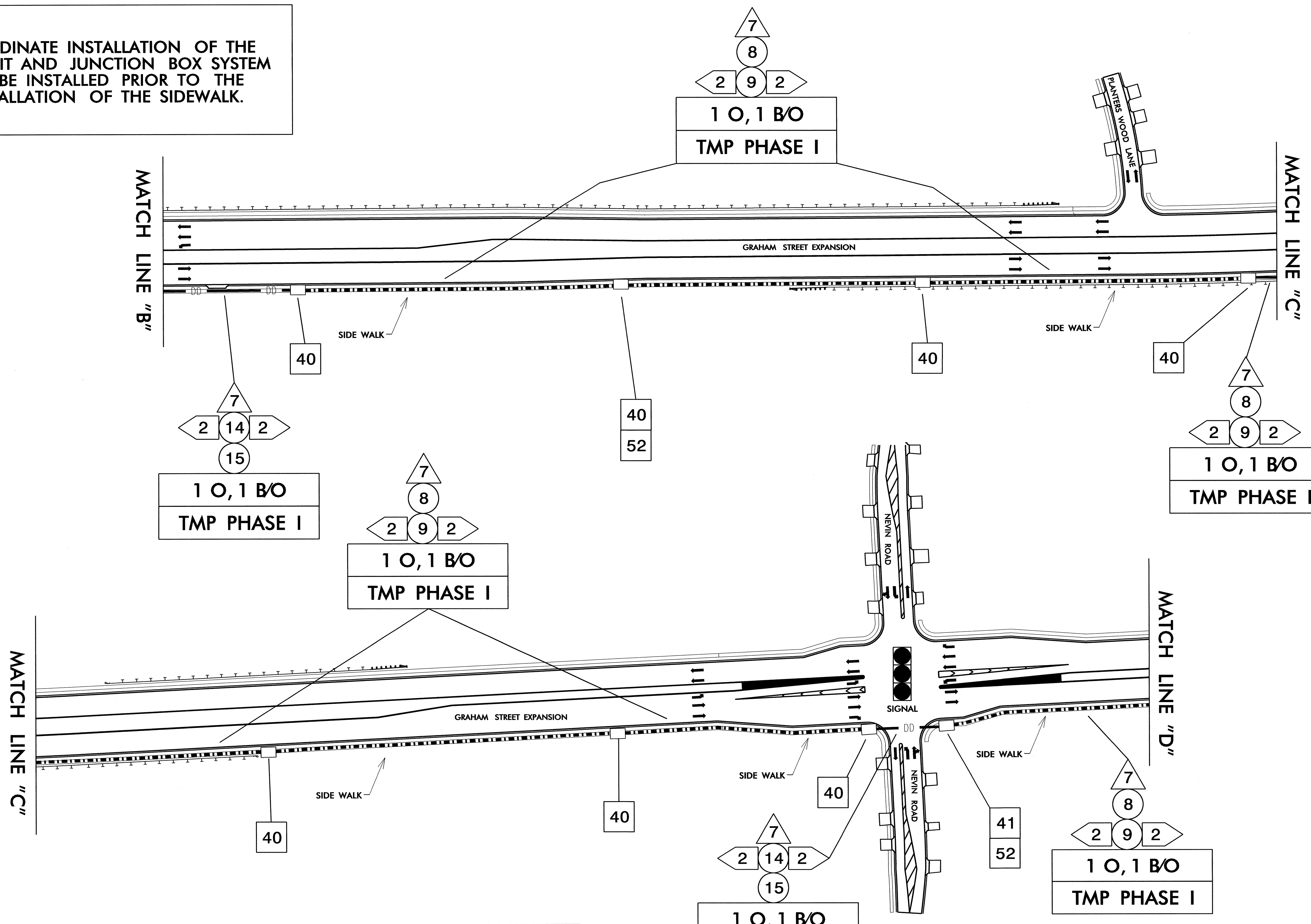


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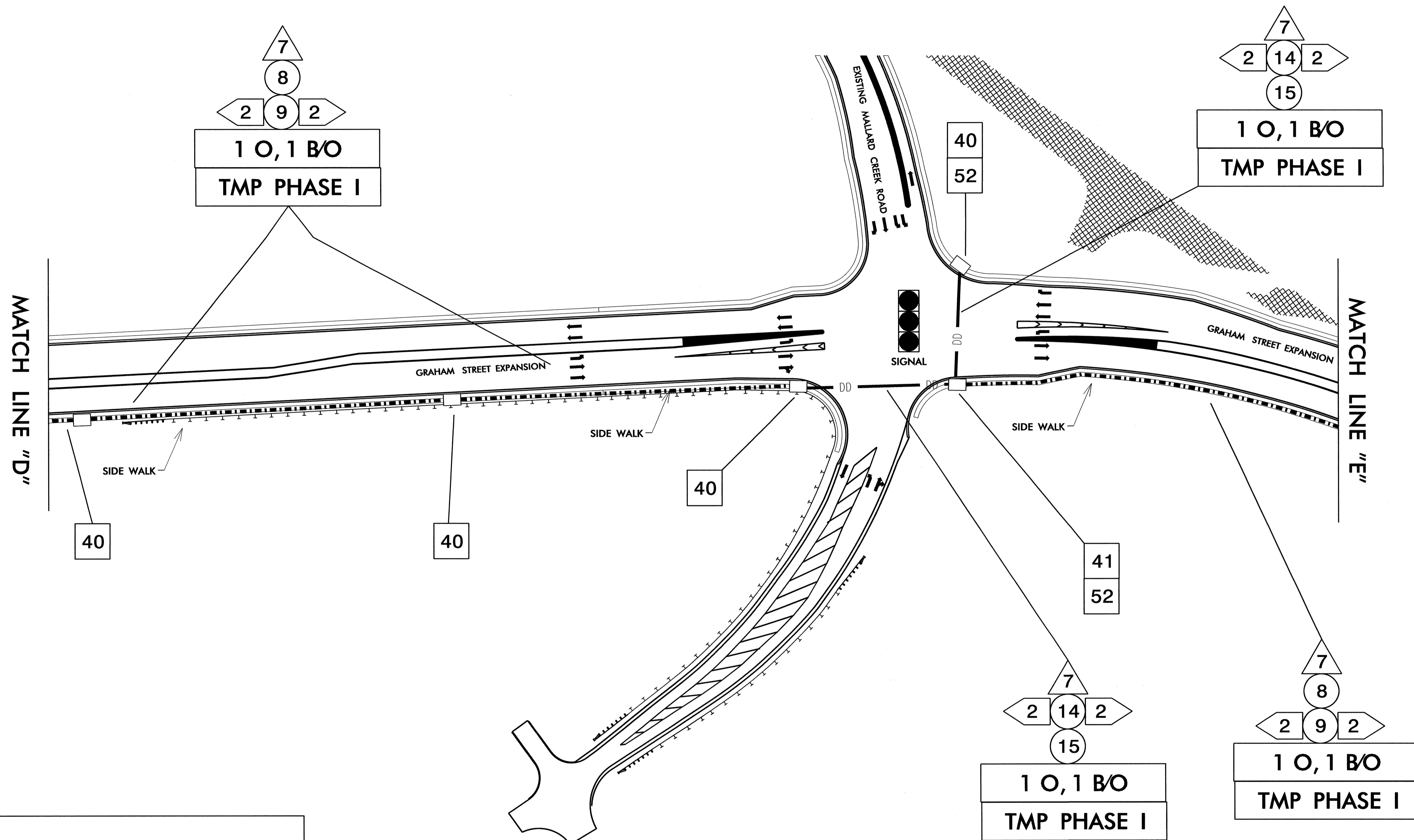
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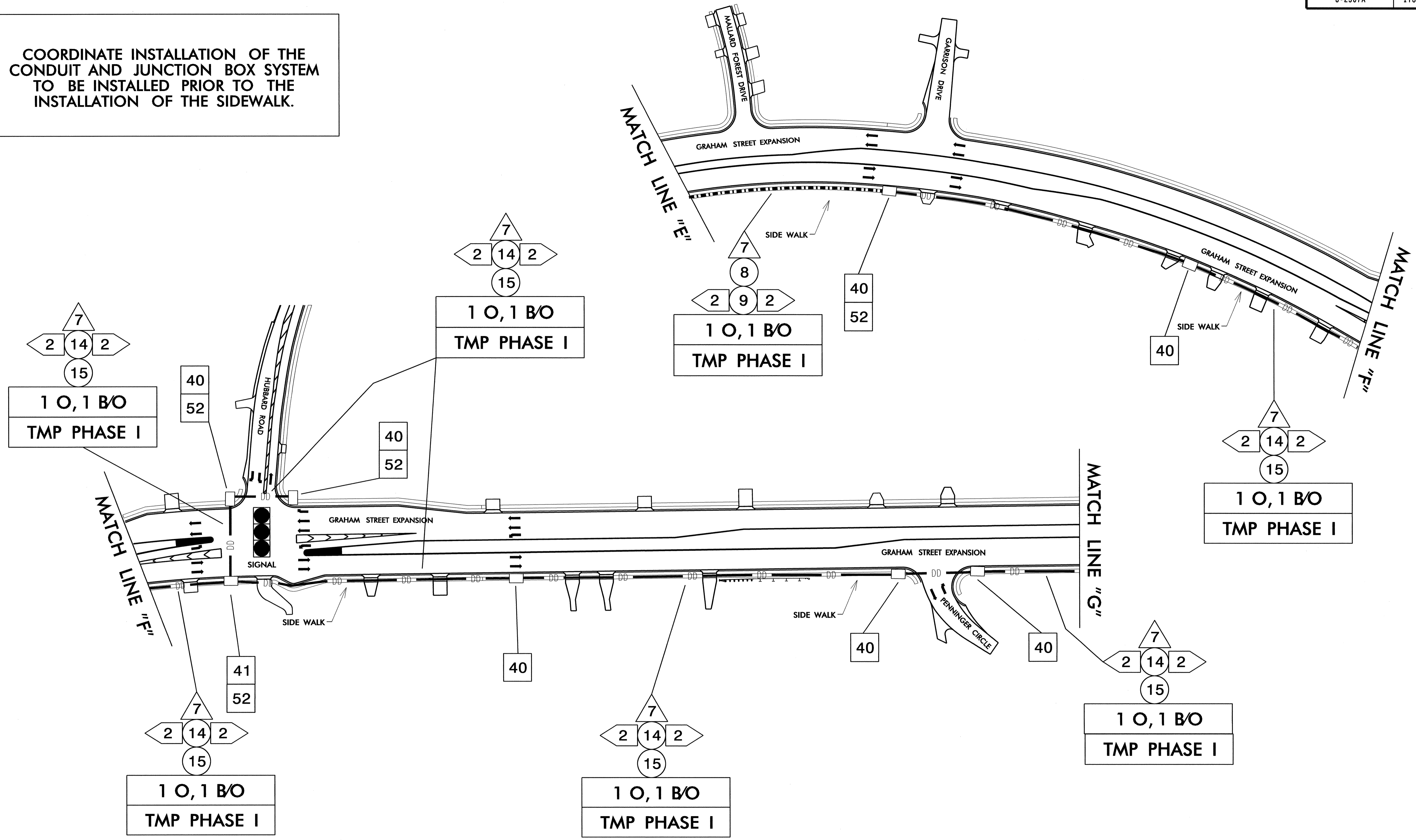


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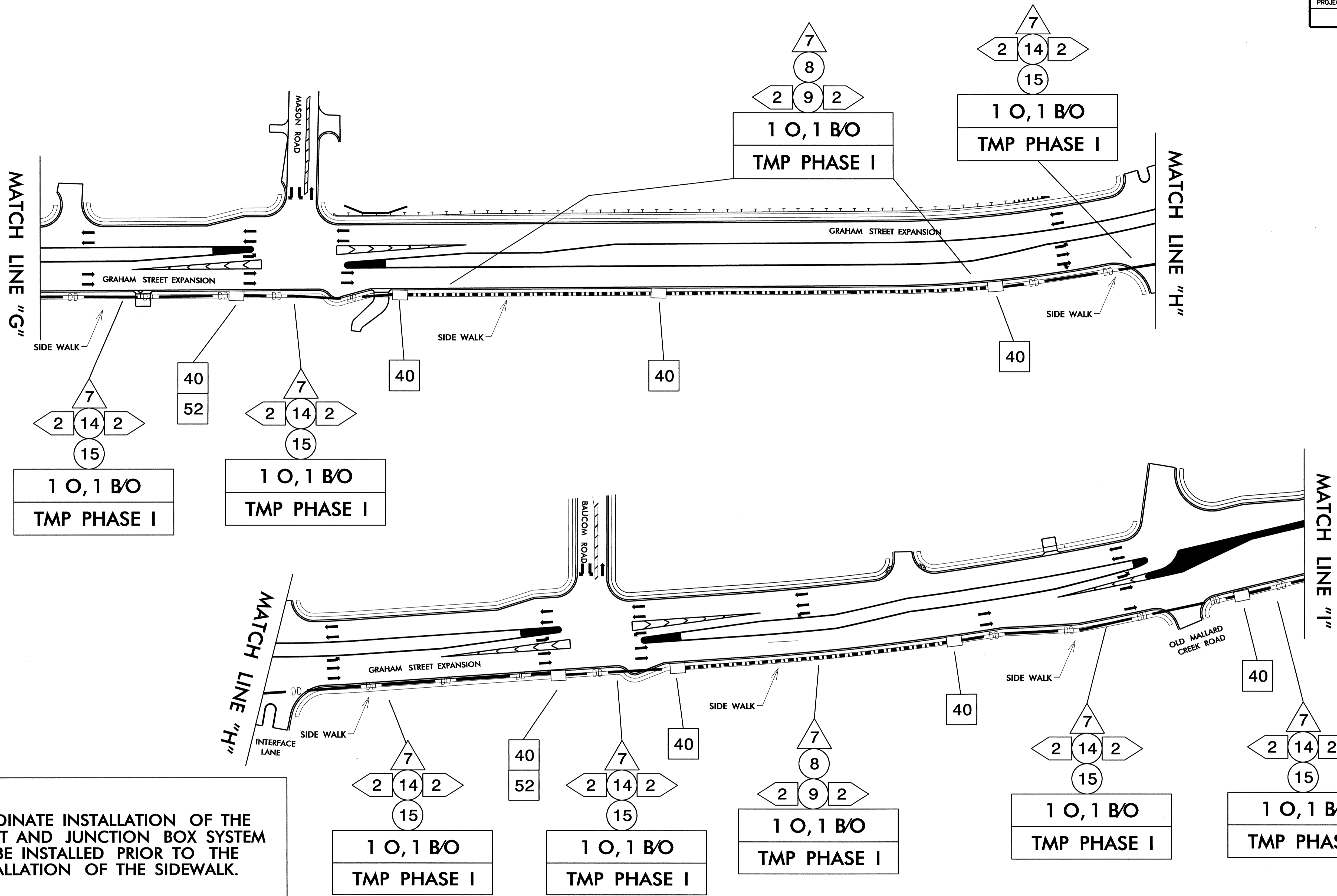
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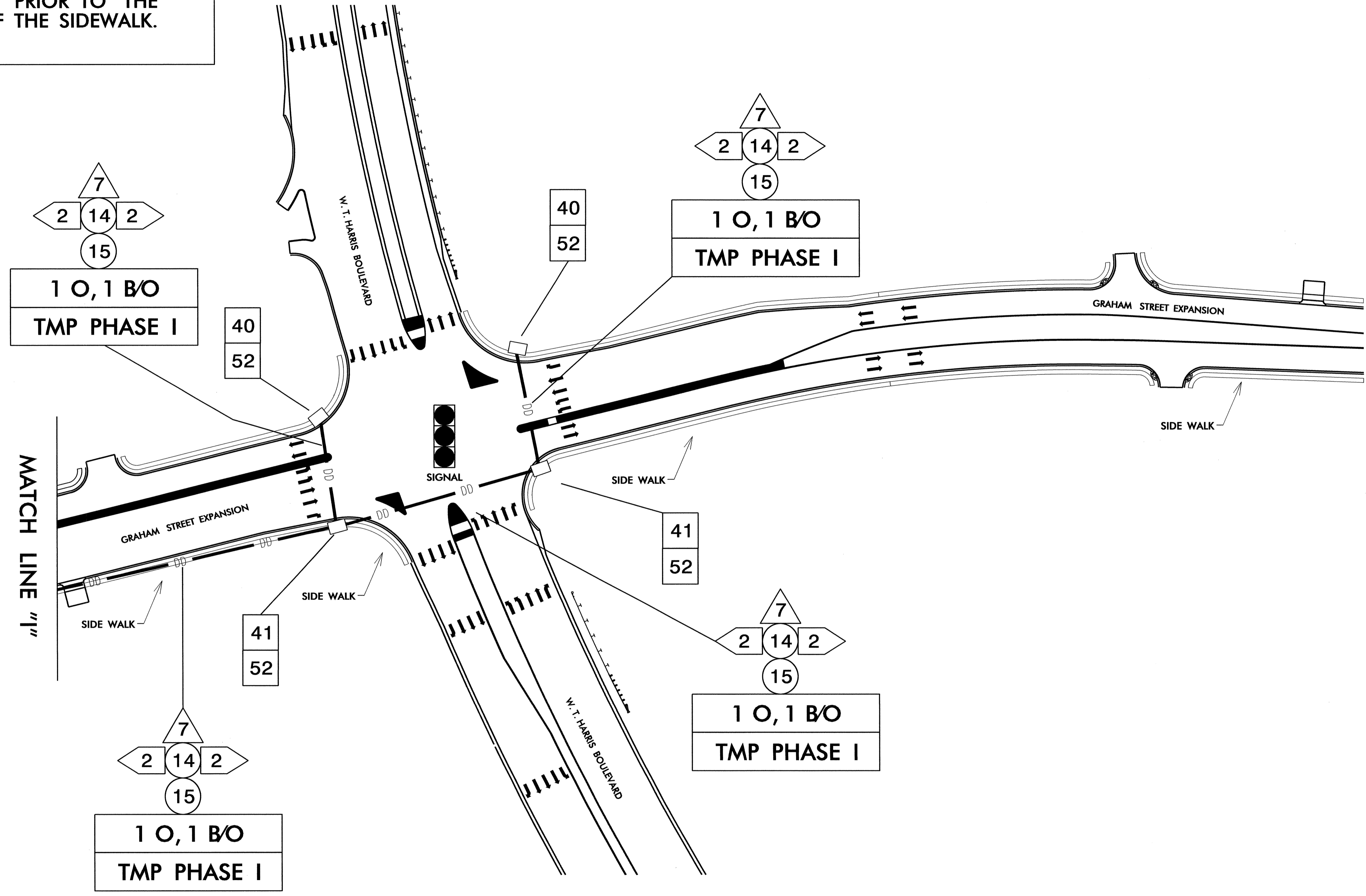


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