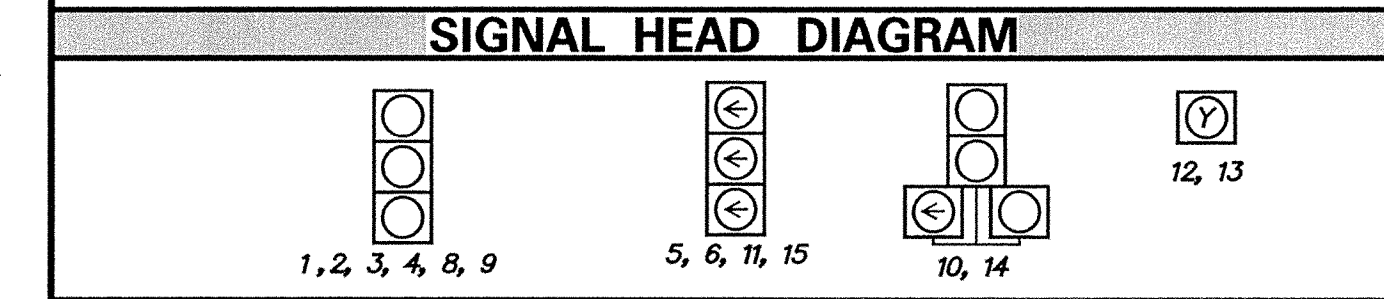
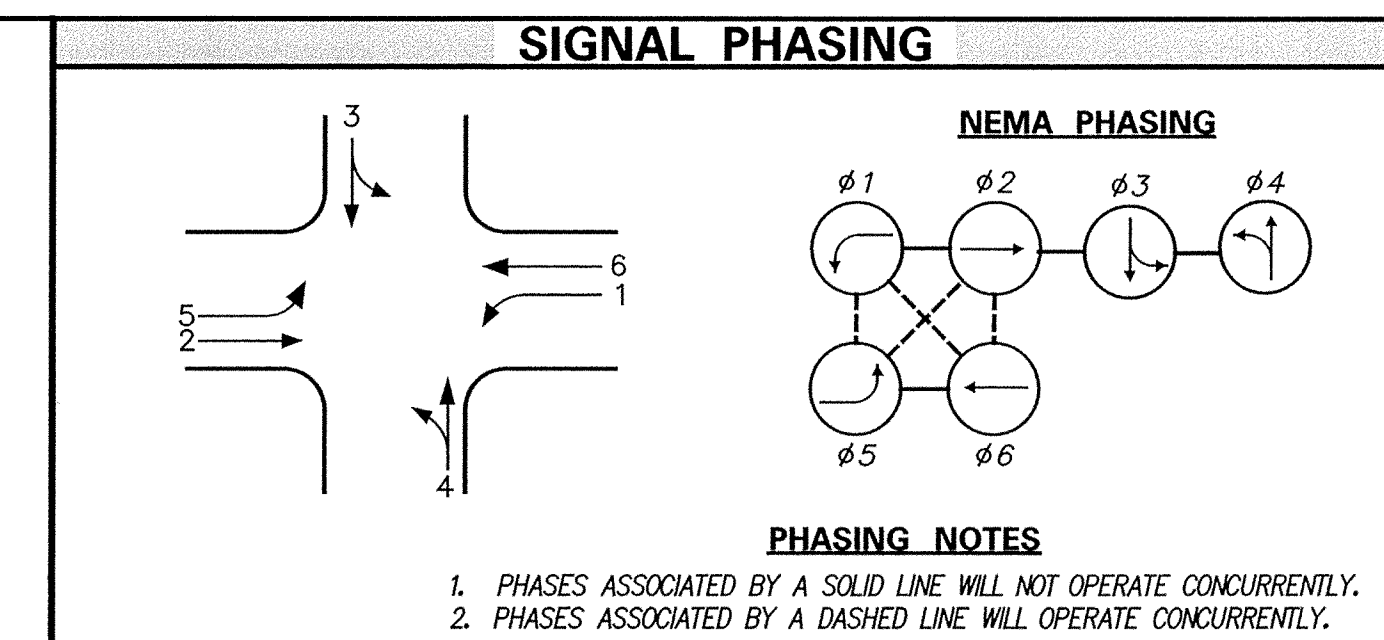


CONDUIT RUN SCHEDULE					
CR #	* OFF CONDUIT	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
*1	1	2.0"	23'		(1) 2/*8 U.F. W/GROUND
*2	1	2.0"	5'		(1) 2/*8 U.F. W/GROUND
*3	3	2.5"	12'		GROUND WIRE (REM) (1) 4/*14 (1) 2/*14 NEW (1) 2/*14 COMM. CABLE
*4	1	2.5"	10'		(3) 4/*18 (4) 16/*14 GROUND WIRE
*5	1	2.5"	177'		(5) 2/*14 (NEW) (1) 2/*14
*6	1	2.5"	63'		(7) 2/*14 GROUND WIRE (REM) (1) 4/*14
*7	1	2.5"	64'		(4) 2/*14 GROUND WIRE (REM) (1) 4/*14
*8	1	2.5"	150'		(2) 2/*14
*9	1	2.5"	113'		(2) 2/*14
*10	1	2.5"	87'		(2) 2/*14 GROUND WIRE
*11	1	2.5"	88'		EMPTY
*12	1	2.5"	8'		EMPTY
*13	1	2.5"	147'		(2) 2/*14 GROUND WIRE (REM) (1) 4/*14
*14	1	2.5"	124'		(2) 2/*14 GROUND WIRE (REM) (1) 4/*14
*18	1	1.5"	23'		(2) 1/*14
*20	1	1.5"	9'		(1) 1/*14 GROUND WIRE
*21	1	1.5"	6'		(2) 1/*14 GROUND WIRE

* EXISTING CONDUIT B = BORE, T = TRENCH, O = OPEN CUT

CR #	* OFF CONDUIT	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
*22	1	4.0" HDPE	20'		COMM. CABLE GROUND WIRE
*23	1	1.5"	9'		(1) 1/*14 GROUND WIRE
*24	1	1.5"	5'		(1) 1/*14 GROUND WIRE
*25	1	2.5"	66'		(3) 2/*14 GROUND WIRE
*26	1	2.5"	74'		EMPTY
*27	1	2.5"	62'		(2) 2/*14 GROUND WIRE
*28	1	1.5"	11'		(2) 1/*14 GROUND WIRE
*29	1	1.5"	15'		(2) 1/*14 GROUND WIRE
*30	1	1.5"	70'		(2) 1/*14 GROUND WIRE
*31	1	1.5"	5'		(1) 1/*14 GROUND WIRE
32	1	1.5"	18'	T	(1) 1/*14 GROUND WIRE

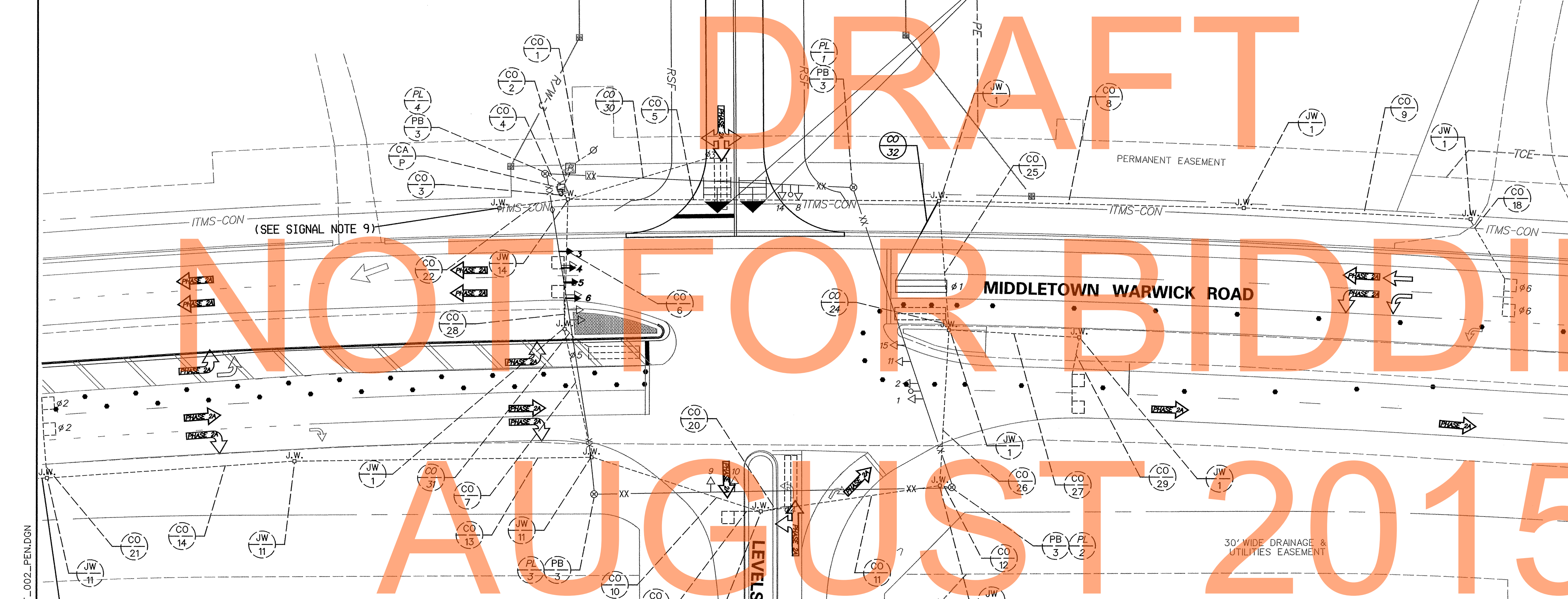
* EXISTING CONDUIT B = BORE, T = TRENCH, O = OPEN CUT
ALL NEW CONDUITS ARE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE.



LEGEND			
(AB)	ABANDON	(OH)	EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	(OH)	PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(CA)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)	(PB)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)	(PL)	EXISTING POLE IDENTIFIER (* OF POLE)
(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(PL)	PROPOSED POLE IDENTIFIER (* OF POLE)
(JW)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(RM)	REMOVE BY CONTRACTOR
(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY OTHERS
(MA)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	□	□
LOOP DETECTOR, TYPE 2	□	□
LUMINAIRE	○	○
MAST ARM	→	→
MICROWAVE DETECTION	→	→
OPTICOM RECEIVER	○	○
OVERHEAD SIGNING	—	—
PEDESTRIAN POLE/BASE	○	○
PEDESTRIAN PUSHBUTTON	→	→
PEDESTRIAN SIGNAL HEAD	→	→
RIGHT-OF-WAY	—	— R/W —
SERVICE PEDESTAL	□	□
SIGNAL CABINET	□	□
SIGNAL HEAD	→	→
SIGNAL POLE/BASE	○	○
SPAN INSULATOR	◇	◇
SPAN WIRE	—	—
UTILITY POLE	○	○
VIDEO DETECTION	→	→

- GENERAL SIGNAL NOTES**
- LOOP DETECTORS: TYPE #1 - 6' x 6' - TO BE INSTALLED ON MAIN STREET THROUGH MOVEMENTS. TYPE #2 - 6' x 25' - TO BE INSTALLED ON MAIN STREET LEFT TURN MOVEMENTS. TYPE #3 - 6' x 25' - TO BE INSTALLED ON SIDE STREET THROUGH AND LEFT TURN MOVEMENTS.
 - ALL SIGNAL POLES WILL BE 32 FEET, EXCEPT WHERE SHOWN.
 - ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
 - POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER. EXISTING CONDUIT IS TO BE ABANDONED.
 - ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
 - ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.



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- SIGNAL NOTES**
- TEMPORARY SIGNING AND TEMPORARY PAVEMENT MARKINGS ARE SHOWN ON THE CONSTRUCTION PHASING PLANS.
 - ELECTRICAL SERVICE PROVIDED IN CONDUIT RUN #1 FROM THE UTILITY POLE NUMBERED "DP&L 42933*32328". TOWN OF MIDDLETOWN TO PROVIDE SERVICE.
 - EXISTING TYPE-7 ITMS JUNCTION WELL. SEE SIGNING, STRIPING, AND CONDUIT PLAN.
 - ITMS CONDUIT IS SHOWN FOR REFERENCE PURPOSES ONLY.
 - SLIDE SIGNAL HEADS 3, 4, 5 AND 6 ON EXISTING SPAN WIRE AS SHOWN ON PLAN.
 - INSTALL LOOP DETECTOR ON SB US 301 AS SHOWN ON PLAN TO PROVIDE DETECTION FOR THE LEFT TURN PHASE DURING CONSTRUCTION. DETECTION MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
 - CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION AT 302-222-5920 10 DAYS PRIOR TO ANY WORK.
 - REMOVE ADVANCE SIGNAL FLASHER ASSEMBLY AND RELOCATE FOR USE AT THE TEMPORARY TRAFFIC SIGNAL AT WARWICK ROAD AND MIDDLETOWN WARWICK ROAD. FLASHER ASSEMBLY SHOULD BE INSTALLED AT THE WARWICK ROAD TEMPORARY SIGNAL PRIOR TO SIGNAL ACTIVATION. ITEM IN ADDITION TO SIGNAL CABLE REMOVAL COVERED UNDER TRAFFIC CONTRACTOR ITEM NO. 746940.
 - INSTALLATION OF LOOP WIRE IN CONDUIT BETWEEN JUNCTION WELL AND LOOP IS INCIDENTAL TO ITEM NO. 746924.
 - REMOVAL OF JUNCTION WELLS INCIDENTAL TO ITEM NO. 211000.

SG-01A

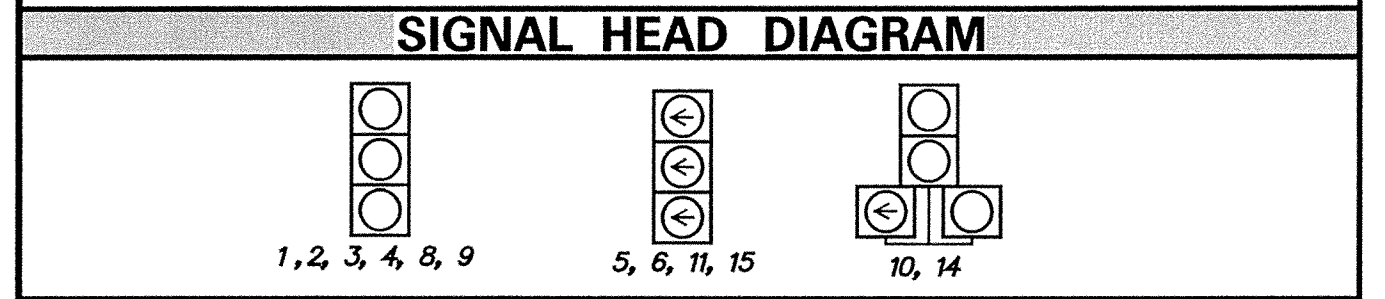
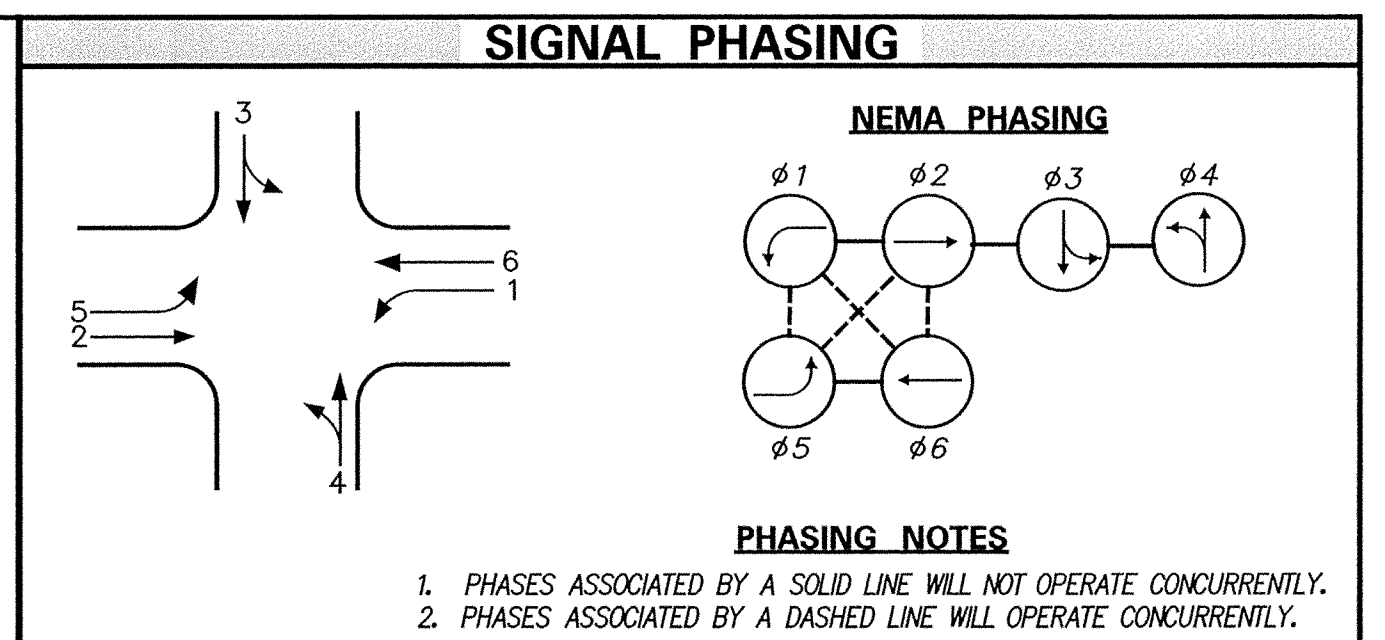
RECOMMENDED <i>Tony K. Fawcett</i> DATE: 12/18/2014	RECOMMENDED <i>[Signature]</i> DATE: 5.18.15	RECOMMENDED _____ DATE: _____	APPROVED TRAFFIC ENGINEER <i>[Signature]</i> DATE: 5/19/15	APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER <i>[Signature]</i> DATE: 5/19/15																
		ADDENDUM / REVISIONS	<p>US 301 MARYLAND STATE LINE TO LEVELS ROAD</p> <p>SCALE 0 30 60 90 FEET</p>	<table border="1"> <tr> <td>CONTRACT</td> <td>PERMIT NO.</td> <td rowspan="3">N726</td> <td rowspan="3">TEMPORARY SIGNAL PLAN MIDDLETOWN WARWICK RD /LEVELS RD PHASE 2A</td> <td>SHEET NO.</td> </tr> <tr> <td>T200811301</td> <td>DESIGNED BY: TLM</td> <td>794</td> </tr> <tr> <td>COUNTY</td> <td>CHECKED BY: PAH</td> <td>TOTAL SHTS.</td> </tr> <tr> <td>NEW CASTLE</td> <td></td> <td></td> <td></td> <td>850</td> </tr> </table>	CONTRACT	PERMIT NO.	N726	TEMPORARY SIGNAL PLAN MIDDLETOWN WARWICK RD /LEVELS RD PHASE 2A	SHEET NO.	T200811301	DESIGNED BY: TLM	794	COUNTY	CHECKED BY: PAH	TOTAL SHTS.	NEW CASTLE				850
CONTRACT	PERMIT NO.	N726	TEMPORARY SIGNAL PLAN MIDDLETOWN WARWICK RD /LEVELS RD PHASE 2A	SHEET NO.																
T200811301	DESIGNED BY: TLM			794																
COUNTY	CHECKED BY: PAH			TOTAL SHTS.																
NEW CASTLE				850																

CR #	# OF CONDUIT	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
*1	1	2.0"	23'		(1) 2/*8 U.F. W/GROUND
*2	1	2.0"	5'		(1) 2/*8 U.F. W/GROUND
*3	3	2.5"	12'		COMM. CABLE GROUND WIRE (12) 2/*14 (REM) (1) 2/*14
*4	1	2.5"	10'		(3) 4/*18 (4) 16/*14 GROUND WIRE
*5	1	2.5"	177'		(5) 2/*14 (REM) (1) 2/*14
*6	1	2.5"	63'		(7) 2/*14 GROUND WIRE
*7	1	2.5"	64'		(4) 2/*14 GROUND WIRE
*8	1	2.5"	150'		(2) 2/*14
*9	1	2.5"	113'		(2) 2/*14
*10	1	2.5"	87'		(2) 2/*14 GROUND WIRE
*11	1	2.5"	88'		EMPTY
*12	1	2.5"	8'		EMPTY
*13	1	2.5"	147'		(2) 2/*14 GROUND WIRE
*14	1	2.5"	124'		(2) 2/*14 GROUND WIRE
*18	1	1.5"	23'		(1) 1/*14
*20	1	1.5"	9'		(1) 1/*14 GROUND WIRE
*21	1	1.5"	6'		(2) 1/*14 GROUND WIRE

* EXISTING CONDUIT B = BORE, T = TRENCH, O = OPEN CUT

CR #	# OF CONDUIT	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
*22	1	4.0" HDPE	20'		COMM. CABLE GROUND WIRE
*23	1	1.5"	9'		(1) 1/*14 GROUND WIRE
*24	1	1.5"	5'		(1) 1/*14 GROUND WIRE
*25	1	2.5"	66'		(3) 2/*14 GROUND WIRE
*26	1	2.5"	74'		EMPTY
*27	1	2.5"	62'		(2) 2/*14 GROUND WIRE
*28	1	1.5"	11'		(2) 1/*14 GROUND WIRE
*29	1	1.5"	15'		(2) 1/*14 GROUND WIRE
*30	1	1.5"	70'		(1) 1/*14 GROUND WIRE
*31	1	1.5"	5'		(1) 1/*14 GROUND WIRE

* EXISTING CONDUIT B = BORE, T = TRENCH, O = OPEN CUT

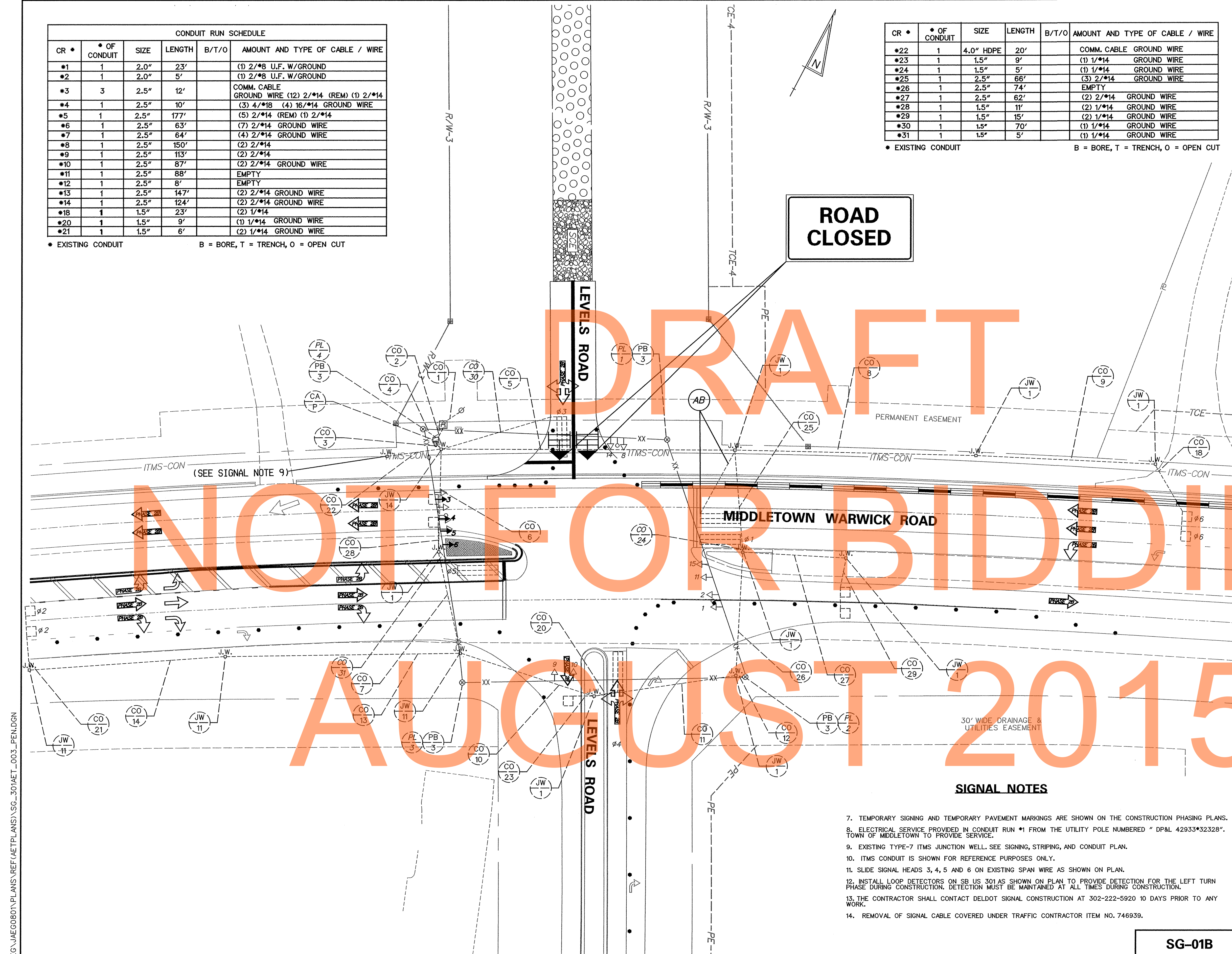


EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.
LOOP DETECTOR, TYPE 1	[Symbol]
LOOP DETECTOR, TYPE 2	[Symbol]
LUMINAIRE	[Symbol]
MAST ARM	[Symbol]
MICROWAVE DETECTION	[Symbol]
OPTICOM RECEIVER	[Symbol]
OVERHEAD SIGNING	[Symbol]
PEDESTRIAN POLE/BASE	[Symbol]
PEDESTRIAN PUSHBUTTON	[Symbol]
PEDESTRIAN SIGNAL HEAD	[Symbol]
RIGHT-OF-WAY	R/W
SERVICE PEDESTAL	[Symbol]
SIGNAL CABINET	[Symbol]
SIGNAL HEAD	[Symbol]
SIGNAL POLE/BASE	[Symbol]
SPAN INSULATOR	[Symbol]
SPAN WIRE	XX
UTILITY POLE	[Symbol]
VIDEO DETECTION	[Symbol]

EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.
LOOP DETECTOR, TYPE 1	[Symbol]
LOOP DETECTOR, TYPE 2	[Symbol]
LUMINAIRE	[Symbol]
MAST ARM	[Symbol]
MICROWAVE DETECTION	[Symbol]
OPTICOM RECEIVER	[Symbol]
OVERHEAD SIGNING	[Symbol]
PEDESTRIAN POLE/BASE	[Symbol]
PEDESTRIAN PUSHBUTTON	[Symbol]
PEDESTRIAN SIGNAL HEAD	[Symbol]
RIGHT-OF-WAY	R/W
SERVICE PEDESTAL	[Symbol]
SIGNAL CABINET	[Symbol]
SIGNAL HEAD	[Symbol]
SIGNAL POLE/BASE	[Symbol]
SPAN INSULATOR	[Symbol]
SPAN WIRE	XX
UTILITY POLE	[Symbol]
VIDEO DETECTION	[Symbol]

GENERAL SIGNAL NOTES

- LOOP DETECTORS:
TYPE #1 - 6' x 6' - TO BE INSTALLED ON MAIN STREET THROUGH MOVEMENTS.
TYPE #2 - 6' x 25' - TO BE INSTALLED ON MAIN STREET LEFT TURN MOVEMENTS.
TYPE #3 - 6' x 25' - TO BE INSTALLED ON SIDE STREET THROUGH AND LEFT TURN MOVEMENTS.
- ALL SIGNAL POLES WILL BE 32 FEET, EXCEPT WHERE SHOWN.
- ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
- POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER. EXISTING CONDUIT IS TO BE ABANDONED.
- ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.



SIGNAL NOTES

- TEMPORARY SIGNING AND TEMPORARY PAVEMENT MARKINGS ARE SHOWN ON THE CONSTRUCTION PHASING PLANS.
- ELECTRICAL SERVICE PROVIDED IN CONDUIT RUN #1 FROM THE UTILITY POLE NUMBERED "DP&L 42933*32328". TOWN OF MIDDLETOWN TO PROVIDE SERVICE.
- EXISTING TYPE-7 ITMS JUNCTION WELL. SEE SIGNING, STRIPING, AND CONDUIT PLAN.
- ITMS CONDUIT IS SHOWN FOR REFERENCE PURPOSES ONLY.
- SLIDE SIGNAL HEADS 3, 4, 5 AND 6 ON EXISTING SPAN WIRE AS SHOWN ON PLAN.
- INSTALL LOOP DETECTORS ON SB US 301 AS SHOWN ON PLAN TO PROVIDE DETECTION FOR THE LEFT TURN PHASE DURING CONSTRUCTION. DETECTION MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION AT 302-222-5920 10 DAYS PRIOR TO ANY WORK.
- REMOVAL OF SIGNAL CABLE COVERED UNDER TRAFFIC CONTRACTOR ITEM NO. 746939.

SG-01B

RECOMMENDED *Tony K. Fawcett* DATE: 12/18/2014

RECOMMENDED *[Signature]* DATE: 5.18.15

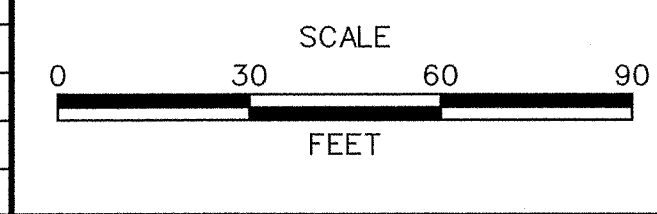
RECOMMENDED _____ DATE: _____

APPROVED TRAFFIC ENGINEER *[Signature]* DATE: 5/14/15

APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER *[Signature]* DATE: 5/14/15



ADDENDUM / REVISIONS



US 301 MARYLAND STATE LINE TO LEVELS ROAD

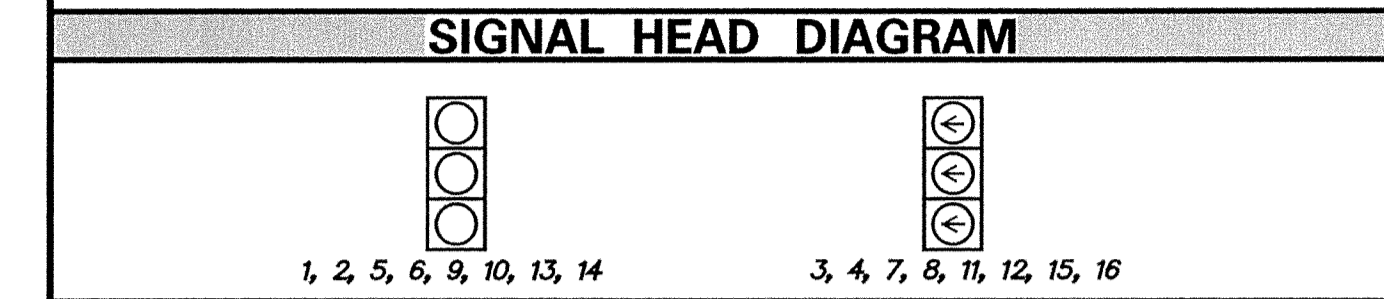
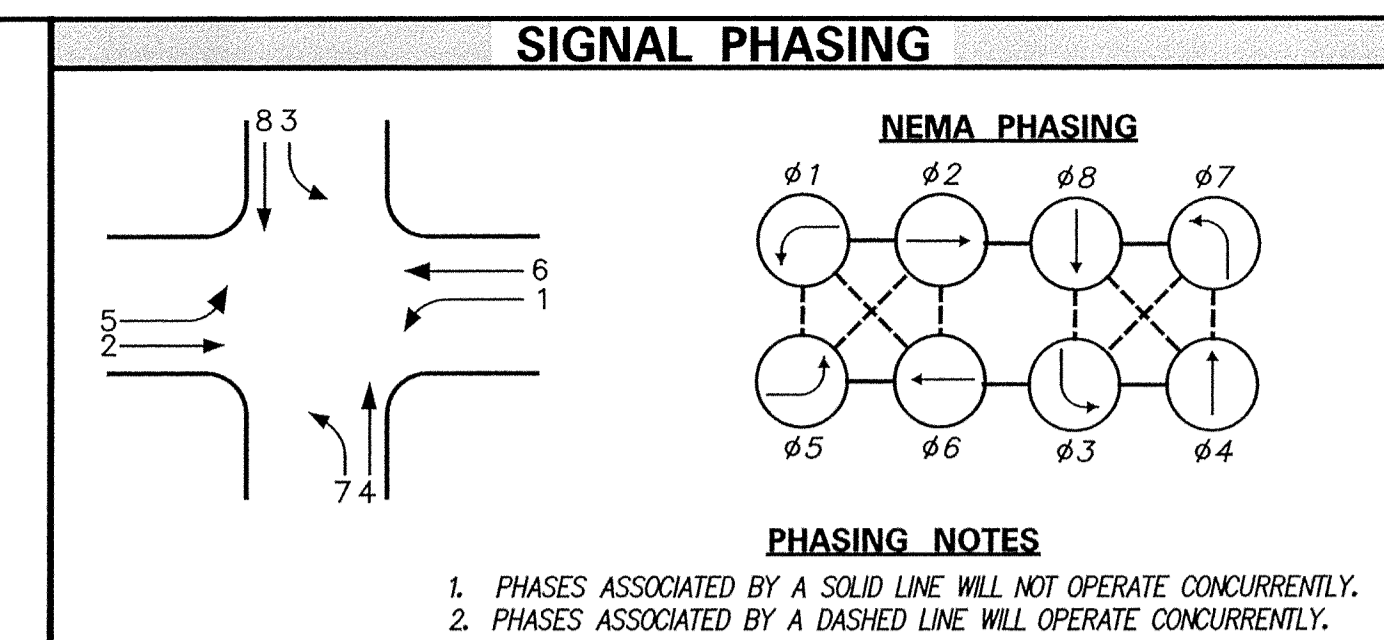
CONTRACT T200811301	PERMIT NO. N726	SHEET NO. 795
COUNTY NEW CASTLE	DESIGNED BY: TLM	TOTAL SHTS. 850
CHECKED BY: PAH	TEMPORARY SIGNAL PLAN MIDDLETOWN WARWICK RD /LEVELS RD PHASE 2B	

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CONDUIT RUN SCHEDULE					
CR #	# OF CONDUIT	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
*1	1	2.0"	23'		(1) 2/0B U.F. W/GROUND
*2	1	2.0"	5'		(1) 2/0B U.F. W/GROUND
*3	3	2.5"	12'		COMM. CABLE GROUND WIRE (7) 2/014 (NEW) (1) 2/014 (NEW) (4) 5/014 (REM) (5) 2/014
*4	1	2.5"	10'		GROUND WIRE (REM) (4) 16/014 (REM) (3) 4/018 (NEW) (4) 4/018 (NEW) (4) 16/014
*6	1	2.5"	63'		GROUND WIRE (7) 2/014 (NEW) (1) 2/014 (NEW) (1) 5/014
*7	1	2.5"	64'		GROUND WIRE (4) 2/014 (NEW) (1) 2/014 (NEW) (1) 5/014
*10	1	2.5"	87'		GROUND WIRE (2) 2/014 (NEW) (1) 2/014 (NEW) (1) 5/014
*13	1	2.5"	147'		(2) 2/014 GROUND WIRE
*14	1	2.5"	124'		(2) 2/014 GROUND WIRE
*20	1	1.5"	9'		(NEW) (2) 1/014 GROUND WIRE
*21	1	1.5"	8'		(NEW) 1/014 GROUND WIRE
*22	1	4.0" HDPE	20'		COMM. CABLE GROUND WIRE
*23	1	1.5"	9'		(NEW) (1) 2/014 GROUND WIRE
*24	1	1.5"	5'		(NEW) (1) 1/014 GROUND WIRE
*27	1	2.5"	62'		(2) 2/014 GROUND WIRE

CONDUIT RUN SCHEDULE					
CR #	# OF CONDUIT	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
*28	1	1.5"	11'		(NEW) (2) 1/014 GROUND WIRE
*29	1	1.5"	15'		(NEW) (2) 1/014 GROUND WIRE
*31	1	1.5"	5'		(NEW) (1) 1/014 GROUND WIRE
33	1	4.0" HDPE	71'	B	(3) 2/014 GROUND WIRE
34	1	4.0"	82'	T	(2) 2/014 GROUND WIRE
35	1	4.0"	60'	T	(7) 2/014 GROUND WIRE
36	1	4.0"	85'	T	(7) 2/014, (2) 5/014 GROUND WIRE
37	1	4.0"	60'	T	(10) 2/014, (3) 5/014 GROUND WIRE
38	1	3.0"	7'	T	(1) 5/014 GROUND WIRE
39	1	3.0"	8'	T	(1) 5/014 GROUND WIRE
40	1	1.5"	10'	T	(2) 1/014 GROUND WIRE
41	1	1.5"	10'	T	(2) 1/014 GROUND WIRE
42	1	1.5"	12'	T	(3) 1/014 GROUND WIRE
43	1	3.0"	17'	T	(1) 5/014 GROUND WIRE
44	1	3.0"	17'	T	(1) 5/014 GROUND WIRE
45	1	4.0"	50'	T	(1) 5/014 GROUND WIRE
46	1	4.0"	105'	T	(2) 2/014 GROUND WIRE
47	1	4.0"	125'	T	(2) 2/014 GROUND WIRE

* EXISTING CONDUIT B = BORE, T = TRENCH, O = OPEN CUT
ALL NEW CONDUITS ARE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE.

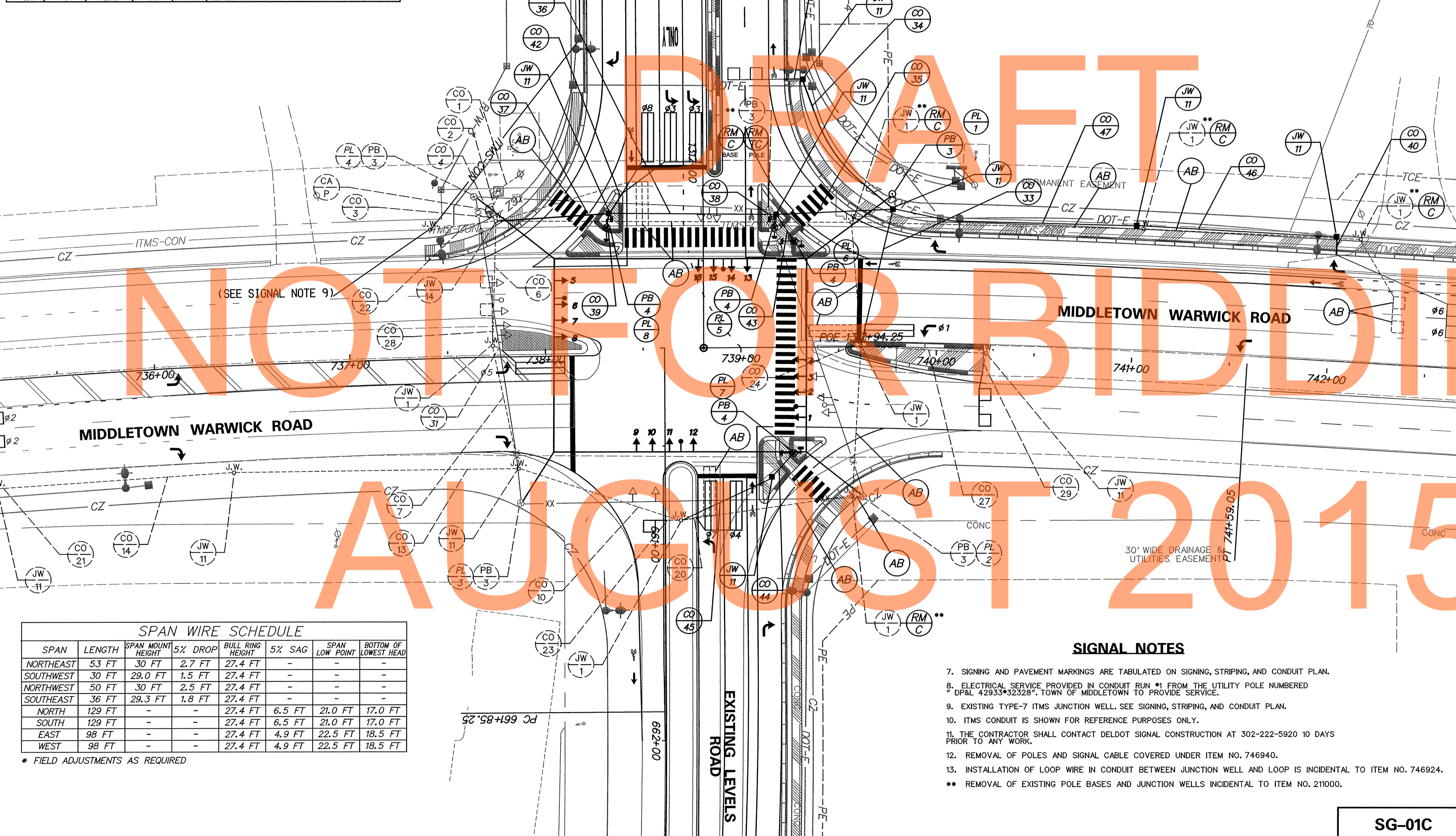


LEGEND		
EXISTING SYMBOL	PROPOSED SYMBOL	DESCRIPTION
(AB)	(AB)	ABANDON
(CA)	(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
(CA)	(CA)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
(CO)	(CO)	EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)
(CO)	(CO)	PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)
(JW)	(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
(JW)	(JW)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
(MA)	(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
(MA)	(MA)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
(OH)	(OH)	EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(OH)	(OH)	PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(PB)	(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(PB)	(PB)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(PL)	(PL)	EXISTING POLE IDENTIFIER (* OF POLE)
(PL)	(PL)	PROPOSED POLE IDENTIFIER (* OF POLE)
(RM)	(RM)	REMOVE BY CONTRACTOR
(RM)	(RM)	REMOVE BY OTHERS
(RM)	(RM)	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	□	□
LOOP DETECTOR, TYPE 2	□	□
LUMINAIRE	○	○
MAST ARM	→	→
MICROWAVE DETECTION	→	→
OPTICOM RECEIVER	○	○
OVERHEAD SIGNING	—	—
PEDESTRIAN POLE/BASE	○	○
PEDESTRIAN PUSHBUTTON	→	→
PEDESTRIAN SIGNAL HEAD	→	→
RIGHT-OF-WAY	—	R/W
SERVICE PEDESTAL	□	□
SIGNAL CABINET	□	□
SIGNAL HEAD	→	→
SIGNAL POLE/BASE	○	○
SPAN INSULATOR	◇	◇
SPAN WIRE	—	—
UTILITY POLE	○	○
VIDEO DETECTION	→	→

GENERAL SIGNAL NOTES

- LOOP DETECTORS: TYPE #1 - 6' x 6' - TO BE INSTALLED ON MAIN STREET THROUGH MOVEMENTS. TYPE #2 - 6' x 25' - TO BE INSTALLED ON MAIN STREET LEFT TURN MOVEMENTS. TYPE #3 - 6' x 25' - TO BE INSTALLED ON SIDE STREET THROUGH AND LEFT TURN MOVEMENTS.
- ALL SIGNAL POLES WILL BE 32 FEET, EXCEPT WHERE SHOWN.
- ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
- POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER. EXISTING CONDUIT IS TO BE ABANDONED.
- ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.



SPAN WIRE SCHEDULE						
SPAN	LENGTH	SPAN MOUNT HEIGHT	5% DROP	BULL RING HEIGHT	5% SAG	BOTTOM OF LOWEST HEAD
NORTHEAST	53 FT	30 FT	2.7 FT	27.4 FT	-	-
SOUTHWEST	30 FT	29.0 FT	1.5 FT	27.4 FT	-	-
NORTHWEST	50 FT	30 FT	2.5 FT	27.4 FT	-	-
SOUTHEAST	36 FT	29.3 FT	1.8 FT	27.4 FT	-	-
NORTH	129 FT	-	-	27.4 FT	6.5 FT	21.0 FT 17.0 FT
SOUTH	129 FT	-	-	27.4 FT	6.5 FT	21.0 FT 17.0 FT
EAST	98 FT	-	-	27.4 FT	4.9 FT	22.5 FT 18.5 FT
WEST	98 FT	-	-	27.4 FT	4.9 FT	22.5 FT 18.5 FT

* FIELD ADJUSTMENTS AS REQUIRED

SIGNAL NOTES

- SIGNING AND PAVEMENT MARKINGS ARE TABULATED ON SIGNING, STRIPING, AND CONDUIT PLAN.
- ELECTRICAL SERVICE PROVIDED IN CONDUIT RUN #1 FROM THE UTILITY POLE NUMBERED DP&L 42933*32328*. TOWN OF MIDDLETOWN TO PROVIDE SERVICE.
- EXISTING TYPE-7 ITMS JUNCTION WELL. SEE SIGNING, STRIPING, AND CONDUIT PLAN.
- ITMS CONDUIT IS SHOWN FOR REFERENCE PURPOSES ONLY.
- THE CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION AT 302-222-5920 10 DAYS PRIOR TO ANY WORK.
- REMOVAL OF POLES AND SIGNAL CABLE COVERED UNDER ITEM NO. 746940.
- INSTALLATION OF LOOP WIRE IN CONDUIT BETWEEN JUNCTION WELL AND LOOP IS INCIDENTAL TO ITEM NO. 746924.
- REMOVAL OF EXISTING POLE BASES AND JUNCTION WELLS INCIDENTAL TO ITEM NO. 211000.

RECOMMENDED *Tony K. Furell* DATE: 12/18/2014 RECOMMENDED *[Signature]* DATE: 5/18/15 RECOMMENDED _____ DATE: _____

APPROVED TRAFFIC ENGINEER *[Signature]* DATE: 5/18/15 APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER *[Signature]* DATE: 5/19/15

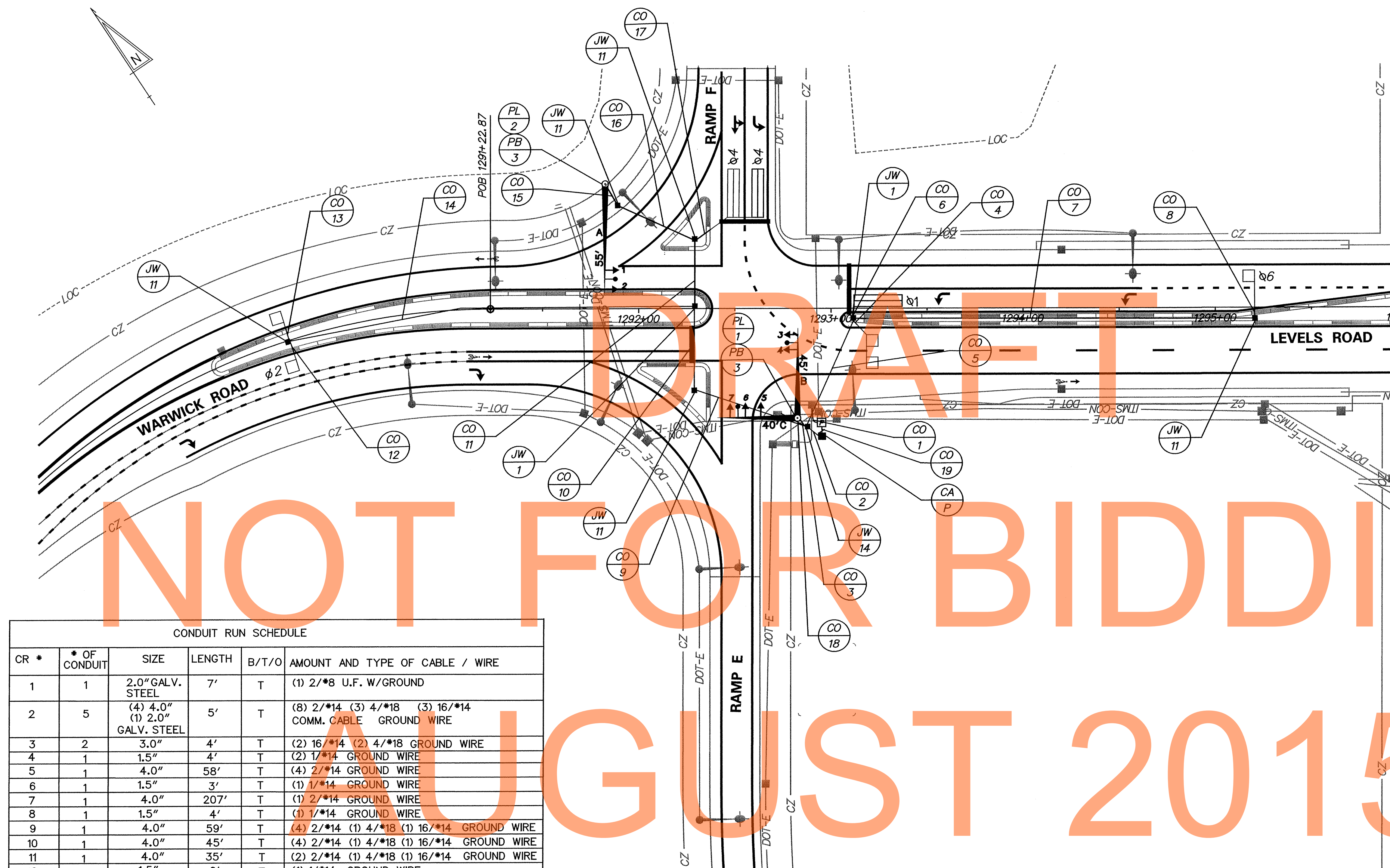
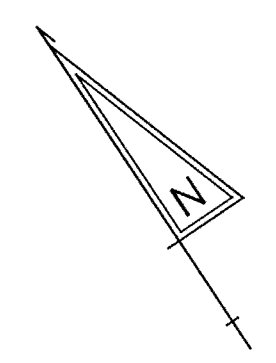
DELAWARE DEPARTMENT OF TRANSPORTATION

US 301 MARYLAND STATE LINE TO LEVELS ROAD

CONTRACT T200811301 PERMIT NO. N726 COUNTY NEW CASTLE CHECKED BY: PAH

SIGNAL PLAN MIDDLETOWN WARWICK RD /LEVELS RD

SHEET NO. 796 TOTAL SHTS. 850



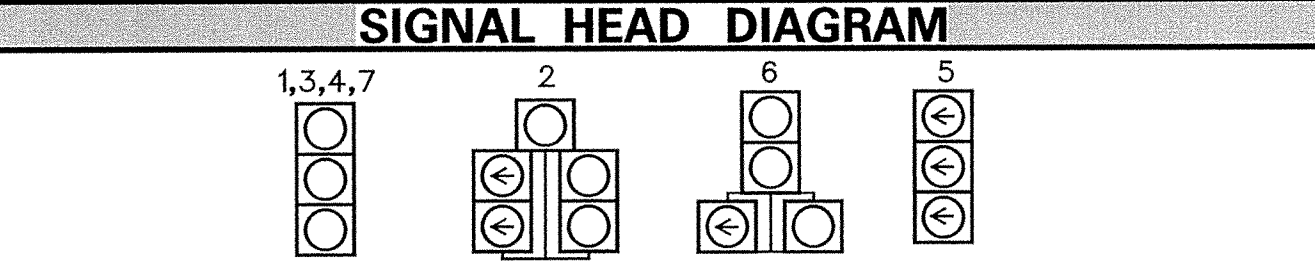
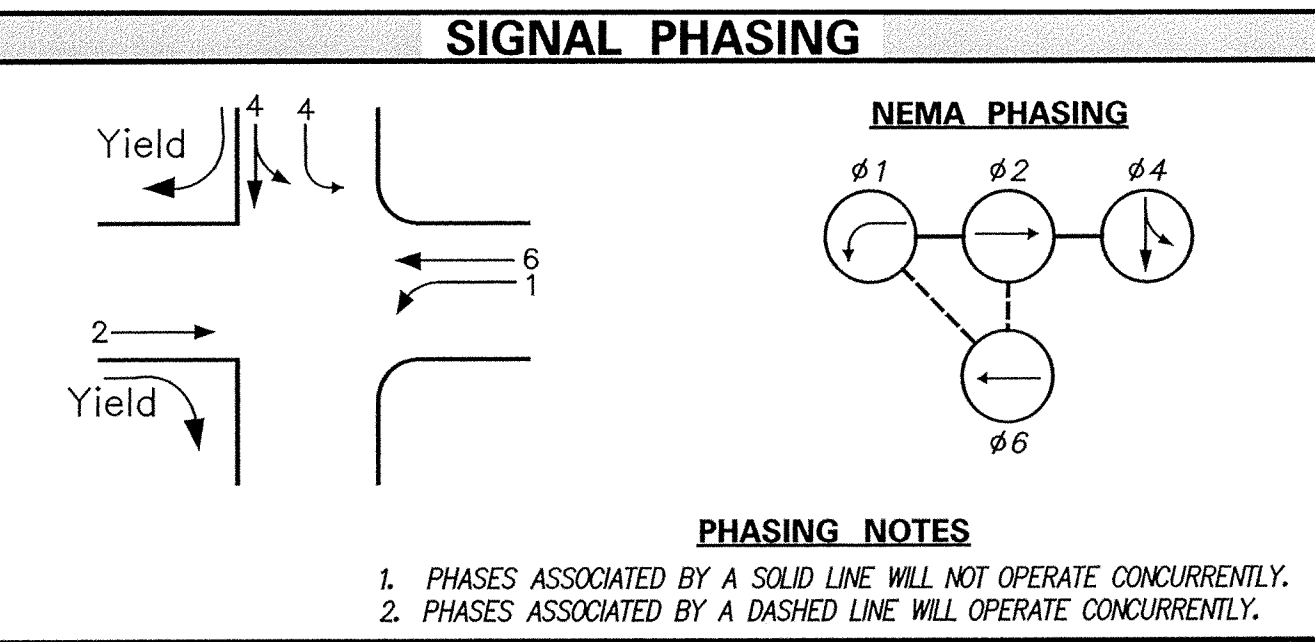
NOT FOR BIDDING

CONDUIT RUN SCHEDULE					
CR #	* OF CONDUIT	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
1	1	2.0" GALV. STEEL	7'	T	(1) 2/*8 U.F. W/GROUND
2	5	(4) 4.0" (1) 2.0" GALV. STEEL	5'	T	(8) 2/*14 (3) 4/*18 (3) 16/*14 COMM. CABLE GROUND WIRE
3	2	3.0"	4'	T	(2) 16/*14 (2) 4/*18 GROUND WIRE
4	1	1.5"	4'	T	(2) 1/*14 GROUND WIRE
5	1	4.0"	58'	T	(4) 2/*14 GROUND WIRE
6	1	1.5"	3'	T	(1) 1/*14 GROUND WIRE
7	1	4.0"	207'	T	(1) 2/*14 GROUND WIRE
8	1	1.5"	4'	T	(1) 1/*14 GROUND WIRE
9	1	4.0"	59'	T	(4) 2/*14 (1) 4/*18 (1) 16/*14 GROUND WIRE
10	1	4.0"	45'	T	(4) 2/*14 (1) 4/*18 (1) 16/*14 GROUND WIRE
11	1	4.0"	35'	T	(2) 2/*14 (1) 4/*18 (1) 16/*14 GROUND WIRE
12	1	1.5"	6'	T	(1) 1/*14 GROUND WIRE
13	1	1.5"	6'	T	(1) 1/*14 GROUND WIRE
14	1	4.0"	211'	T	(2) 2/*14 GROUND WIRE
15	2	3.0"	11'	T	(1) 16/*14 (1) 4/*18 GROUND WIRE
16	1	4.0"	41'	T	(1) 16/*14 (1) 4/*18 GROUND WIRE
17	1	1.5"	9'	T	(2) 1/*14 GROUND WIRE
18	1	4.0"	14'	T	COMM. CABLE GROUND WIRE
19	1	2.0" GALV. STEEL	4'	T	(1) 2/*8 U.F. W/GROUND

B = BORE, T = TRENCH, O = OPEN CUT
ALL NEW CONDUITS ARE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE.

MAST ARM SCHEDULE			
MAST ARM	LENGTH	SIGNAL HEAD	SIGNAL HEAD LOCATION
A	55'	1, 2	43', 53'
B	45'	3, 4	32', 40'
C	40'	5, 6, 7	18', 26', 34'

- SIGNAL NOTES**
- ITMS CONDUIT IS SHOWN FOR REFERENCE PURPOSE ONLY.
 - TRANSFORMER AND DISCONNECT TO BE PROVIDED BY OTHERS AND SIZED BASED ON THE LOAD CHART ON SHEET LI-25.
 - THE CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION AT 302-222-5920 10 DAYS PRIOR TO ANY WORK.
 - INSTALLATION OF LOOP WIRE IN CONDUIT BETWEEN JUNCTION WELL AND LOOP IS INCIDENTAL TO ITEM NO. 746924.



LEGEND

EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.
LOOP DETECTOR, TYPE 1	[Symbol]
LOOP DETECTOR, TYPE 2	[Symbol]
LUMINAIRE	[Symbol]
MAST ARM	[Symbol]
MICROWAVE DETECTION	[Symbol]
OPTICOM RECEIVER	[Symbol]
OVERHEAD SIGNING	[Symbol]
PEDESTRIAN POLE/BASE	[Symbol]
PEDESTRIAN PUSHBUTTON	[Symbol]
PEDESTRIAN SIGNAL HEAD	[Symbol]
RIGHT-OF-WAY	[Symbol]
SERVICE PEDESTAL	[Symbol]
SIGNAL CABINET	[Symbol]
SIGNAL HEAD	[Symbol]
SIGNAL POLE/BASE	[Symbol]
SPAN INSULATOR	[Symbol]
SPAN WIRE	[Symbol]
UTILITY POLE	[Symbol]
VIDEO DETECTION	[Symbol]

GENERAL SIGNAL NOTES

- LOOP DETECTORS:
TYPE #1 - 6' x 6' - TO BE INSTALLED ON MAIN STREET THROUGH MOVEMENTS.
TYPE #2 - 6' x 25' - TO BE INSTALLED ON MAIN STREET LEFT TURN MOVEMENTS.
TYPE #3 - 6' x 25' - TO BE INSTALLED ON SIDE STREET THROUGH AND LEFT TURN MOVEMENTS.
- ALL SIGNAL POLES WILL BE 32 FEET, EXCEPT WHERE SHOWN.
- ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
- POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER. EXISTING CONDUIT IS TO BE ABANDONED.
- ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

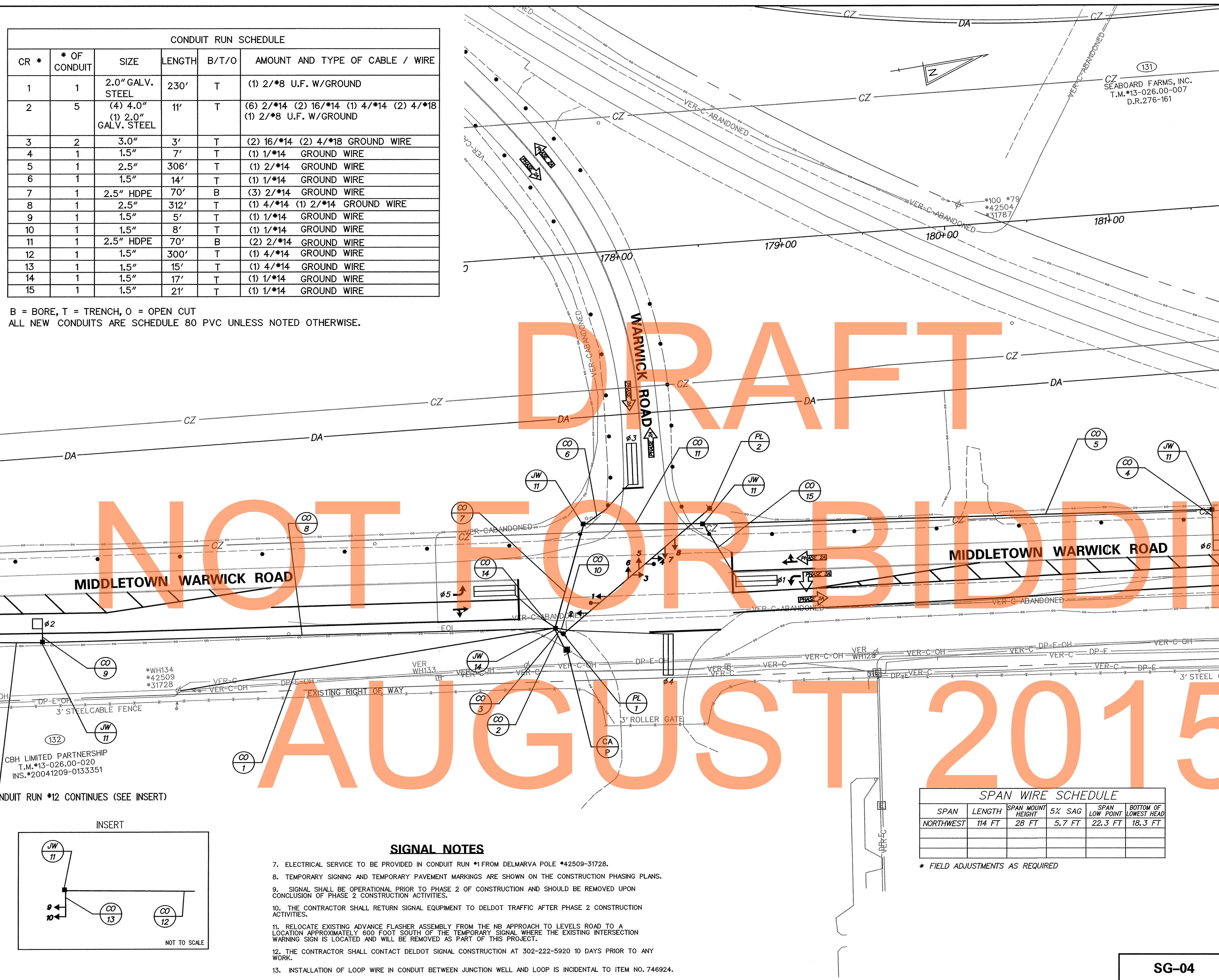
SG-03

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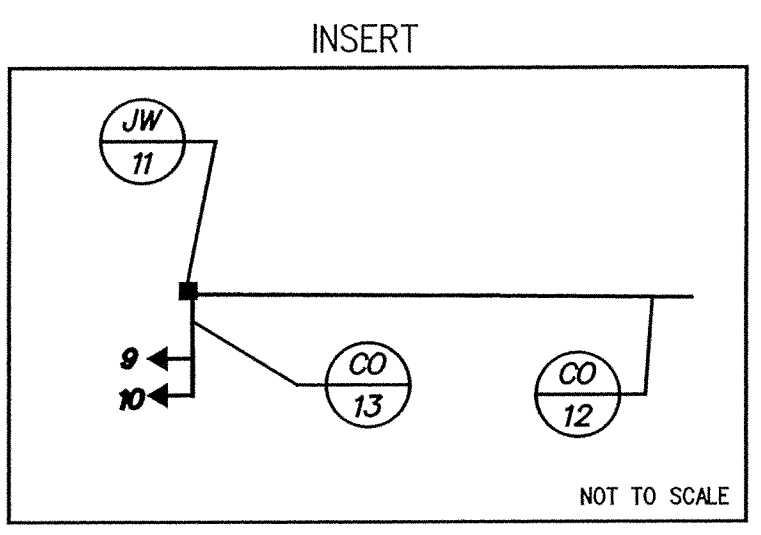
RECOMMENDED <i>Tony K. Farrell</i> DATE: 12/18/2014	RECOMMENDED <i>[Signature]</i> DATE: 5.18.15	RECOMMENDED _____ DATE: _____	APPROVED TRAFFIC ENGINEER <i>[Signature]</i> DATE: 5/18/15	APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER <i>[Signature]</i> DATE: 5/19/15
			US 301 MARYLAND STATE LINE TO LEVELS ROAD	SIGNAL PLAN US 301 SB RAMPS /LEVELS RD
CONTRACT T200811301 COUNTY NEW CASTLE		PERMIT NO. N788 DESIGNED BY: AB CHECKED BY: PAH		SHEET NO. 798 TOTAL SHTS. 850

CONDUIT RUN SCHEDULE					
CR #	* OF CONDUIT	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
1	1	2.0" GALV. STEEL	230'	T	(1) 2/*8 U.F. W/GROUND
2	5	(4) 4.0" GALV. STEEL (1) 2.0" GALV. STEEL	11'	T	(6) 2/*14 (2) 16/*14 (1) 4/*14 (2) 4/*18 (1) 2/*8 U.F. W/GROUND
3	2	3.0"	3'	T	(2) 16/*14 (2) 4/*18 GROUND WIRE
4	1	1.5"	7'	T	(1) 1/*14 GROUND WIRE
5	1	2.5"	306'	T	(1) 2/*14 GROUND WIRE
6	1	1.5"	14'	T	(1) 1/*14 GROUND WIRE
7	1	2.5" HDPE	70'	B	(3) 2/*14 GROUND WIRE
8	1	2.5"	312'	T	(1) 4/*14 (1) 2/*14 GROUND WIRE
9	1	1.5"	5'	T	(1) 1/*14 GROUND WIRE
10	1	1.5"	8'	T	(1) 1/*14 GROUND WIRE
11	1	2.5" HDPE	70'	B	(2) 2/*14 GROUND WIRE
12	1	1.5"	300'	T	(1) 4/*14 GROUND WIRE
13	1	1.5"	15'	T	(1) 4/*14 GROUND WIRE
14	1	1.5"	17'	T	(1) 1/*14 GROUND WIRE
15	1	1.5"	21'	T	(1) 1/*14 GROUND WIRE

B = BORE, T = TRENCH, O = OPEN CUT
ALL NEW CONDUITS ARE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE.



CONDUIT RUN #12 CONTINUES (SEE INSERT)

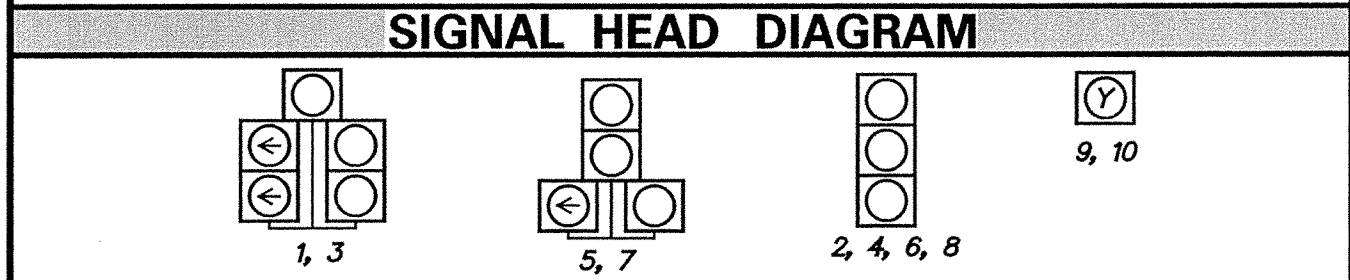
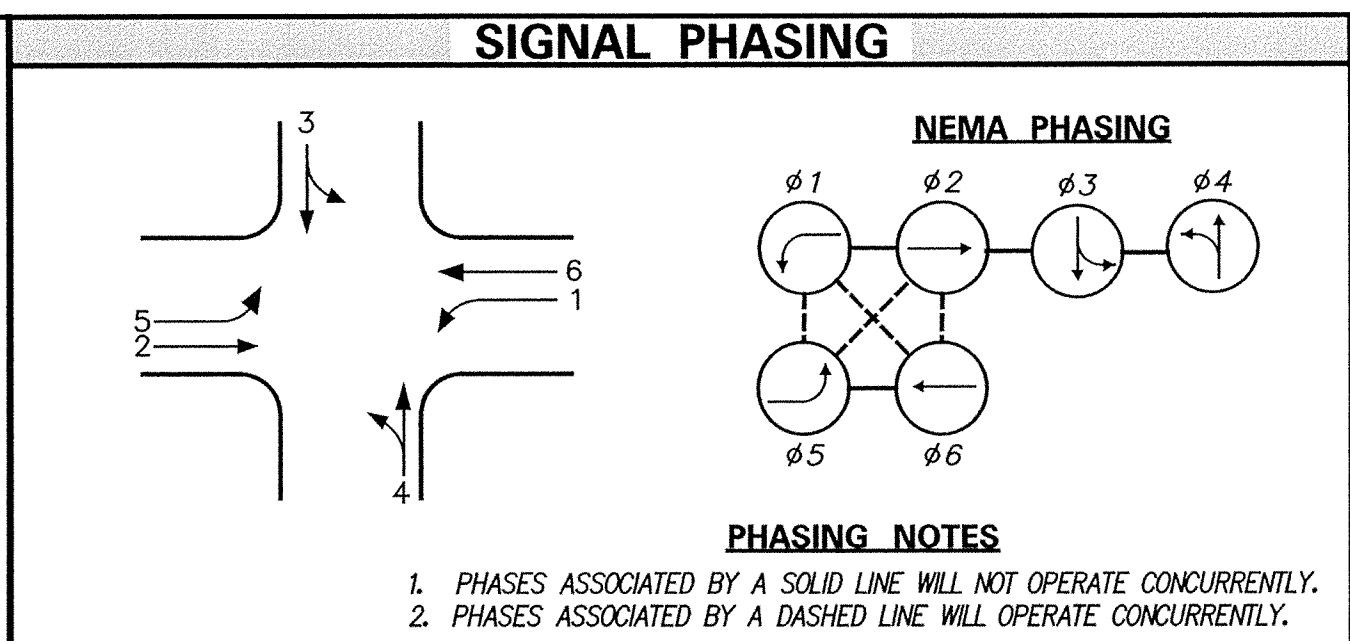


SIGNAL NOTES

- ELECTRICAL SERVICE TO BE PROVIDED IN CONDUIT RUN #1 FROM DELMARVA POLE #42509-31728.
- TEMPORARY SIGNING AND TEMPORARY PAVEMENT MARKINGS ARE SHOWN ON THE CONSTRUCTION PHASING PLANS.
- SIGNAL SHALL BE OPERATIONAL PRIOR TO PHASE 2 OF CONSTRUCTION AND SHOULD BE REMOVED UPON CONCLUSION OF PHASE 2 CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL RETURN SIGNAL EQUIPMENT TO DELDOT TRAFFIC AFTER PHASE 2 CONSTRUCTION ACTIVITIES.
- RELOCATE EXISTING ADVANCE FLASHER ASSEMBLY FROM THE NB APPROACH TO LEVELS ROAD TO A LOCATION APPROXIMATELY 600 FOOT SOUTH OF THE TEMPORARY SIGNAL WHERE THE EXISTING INTERSECTION WARNING SIGN IS LOCATED AND WILL BE REMOVED AS PART OF THIS PROJECT.
- THE CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION AT 302-222-5920 10 DAYS PRIOR TO ANY WORK.
- INSTALLATION OF LOOP WIRE IN CONDUIT BETWEEN JUNCTION WELL AND LOOP IS INCIDENTAL TO ITEM NO. 746924.

SPAN WIRE SCHEDULE					
SPAN	LENGTH	SPAN MOUNT HEIGHT	5% SAG	SPAN LOW POINT	BOTTOM OF LOWEST HEAD
NORTHWEST	114 FT	28 FT	5.7 FT	22.3 FT	18.3 FT

* FIELD ADJUSTMENTS AS REQUIRED



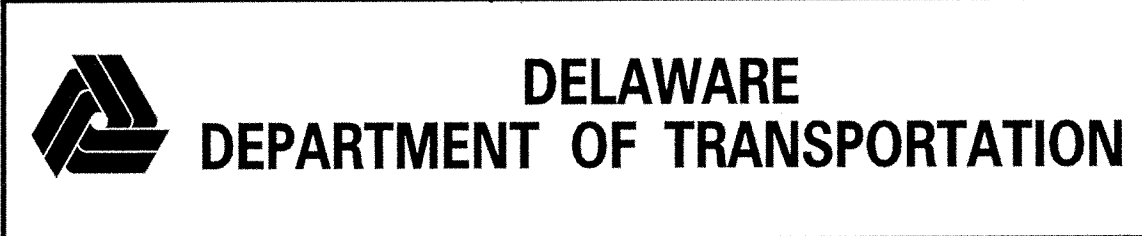
LEGEND			
EXISTING SYMBOL	PROPOSED SYMBOL	EXISTING SYMBOL	PROPOSED SYMBOL
(AB)	ABANDON	(OH)	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	(OH)	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
(CA)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	(PB)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	(PL)	EXISTING POLE IDENTIFIER (# OF POLE)
(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(PL)	PROPOSED POLE IDENTIFIER (# OF POLE)
(JW)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(RM)	REMOVE BY CONTRACTOR
(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY OTHERS
(MA)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	□	□
LOOP DETECTOR, TYPE 2	□	□
LUMINAIRE	○	○
MAST ARM	▶	▶
MICROWAVE DETECTION	◀	▶
OPTICOM RECEIVER	○	○
OVERHEAD SIGNING	⊥	⊥
PEDESTRIAN POLE/BASE	⊙	⊙
PEDESTRIAN PUSHBUTTON	⊙	⊙
PEDESTRIAN SIGNAL HEAD	⊥	⊥
RIGHT-OF-WAY	---	R/W
SERVICE PEDESTAL	□	□
SIGNAL CABINET	□	□
SIGNAL HEAD	▶	▶
SIGNAL POLE/BASE	⊙	⊙
SPAN INSULATOR	◇	◇
SPAN WIRE	—XX—	—XX—
UTILITY POLE	⊙	⊙
VIDEO DETECTION	◀	▶

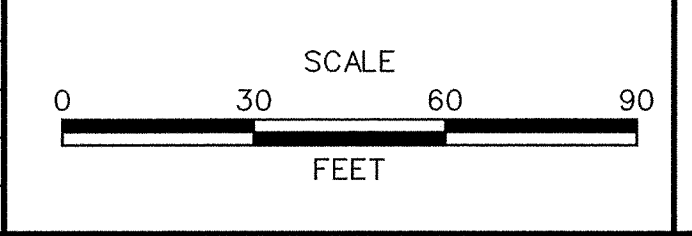
- GENERAL SIGNAL NOTES**
- LOOP DETECTORS:
TYPE #1 - 6' x 6' - TO BE INSTALLED ON MAIN STREET THROUGH MOVEMENTS.
TYPE #2 - 6' x 25' - TO BE INSTALLED ON MAIN STREET LEFT TURN MOVEMENTS.
TYPE #3 - 6' x 25' - TO BE INSTALLED ON SIDE STREET THROUGH AND LEFT TURN MOVEMENTS.
 - SIGNAL SPAN POLES SHALL BE 45' CLASS II WOOD POLES.
 - ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
 - POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER. EXISTING CONDUIT IS TO BE ABANDONED.
 - ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
 - ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITIES, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

SG-04

RECOMMENDED *Tony K. Furrer* DATE: 12/18/2014 RECOMMENDED *[Signature]* DATE: 5/18/15 RECOMMENDED _____ DATE: _____ APPROVED TRAFFIC ENGINEER *[Signature]* DATE: 5/18/15 APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER *[Signature]* DATE: 5/19/15



ADDENDUM / REVISIONS	



US 301 MARYLAND STATE LINE TO LEVELS ROAD

CONTRACT	PERMIT NO.	N790
T200811301	DESIGNED BY: TLM	
COUNTY	CHECKED BY: PAH	
NEW CASTLE		

TEMPORARY SIGNAL PLAN	SHEET NO.
MIDDLETOWN WARWICK RD	799
/WARWICK RD PHASE 2	TOTAL SHTS.
	850

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