

TRAFFIC SIGNAL NOTES:

1.

ALL WORK SHALL BE DONE ACCORDING TO THE LATEST "NYSDOT" STANDARD SPECIFICATIONS, SIGNAL DETAIL SHEETS AND STANDARD STRUCTURE SHEETS. UNLESS OTHERWISE NOTED, ALL ITEM NUMBERS FOR SPECIFIC WORK TASKS RELATE TO THE NYSDOT STANDARD SPECIFICATIONS.
2.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN CLEARANCES FROM UTILITY LINES AND TRAFFIC SIGNAL EQUIPMENT ACCORDING TO THE LATEST "NYSDOT" STANDARD SPECIFICATIONS, STANDARD SHEETS AND DETAILS. MODIFICATIONS MAY BE REQUIRED BY UTILITY COMPANIES AT PERMITEE'S EXPENSE, SUCH AS RELOCATING OVERHEAD WIRES AND/OR POLES. THE CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE PERSONS PRIOR TO CONSTRUCTION.
3.

THE SIGNAL INSTALLATION CONTRACTOR SHALL CONTACT NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) PRIOR TO PERFORMING ANY WORK. A MEETING SHALL TAKE PLACE AS DETERMINED NECESSARY BY THE NYSDOT, OR AT THE REQUEST OF THE CONTRACTOR.
4.

ALL MATERIALS INCORPORATED IN THE SIGNAL INSTALLATION SHALL CONFORM TO THE CURRENT NYSDOT REQUIREMENTS AS PER NOTE 1 ABOVE. CONFORMANCE SHALL BE BY NYSDOT APPROVAL OF THE FOLLOWING SUBMISSION BY THE CONTRACTOR.

TRAFFIC SIGNAL POLES AND PEDESTRIAN POLES:

- MANUFACTURER'S SHOP DRAWINGS AND POLE LOADING CALCULATIONS MUST BE SUBMITTED TO NYSDOT FOR EACH SIGNAL POLE AND INCLUDE FOUNDATION LOADS. SHOP DRAWINGS SHALL ALSO INCLUDE FOOTING MOVEMENT, NYSDOT ANCHOR BOLT DIAMETER, ANCHOR BOLT LENGTH, AND ANCHOR BOLT CIRCLE DIAMETER. THE SHOP DRAWINGS AND CALCULATIONS MUST BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.

TRAFFIC SIGNAL HEADS (SECTIONS) AND BRACKET ASSEMBLIES, PEDESTRIAN HEADS & BRACKET ASSEMBLIES, CONCRETE PULLBOXES CAST BOXES, AND OVERHEAD SIGN ASSEMBLIES:

- MANUFACTURER'S CATALOG CUTS MUST BE SUBMITTED TO NYSDOT AS WELL AS MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH "NYSDOT STANDARD SPECIFICATIONS".

TRAFFIC SIGNAL CONDUIT, CABLE WIRE:

- MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH "NYSDOT STANDARD SPECIFICATIONS" MUST BE SUBMITTED TO NYSDOT.

5.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL LOCAL PERMITS REQUIRED.
6.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ANY DISTURBED AREAS TO THEIR ORIGINAL CONDITIONS AS PER THE APPROPRIATE SECTIONS OF THE STANDARD SPECIFICATIONS.
7.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ELECTRIC SERVICE TO THE SIGNAL FROM THE UTILITY COMPANY.
8.

SIGNAL POLE FOOTING (FOUNDATIONS) SHALL BE INSTALLED AS PER STANDARD SHEET 680.01. PARTICULAR NOTE SHOULD BE MADE OF THE "METHODS FOR PLACING FOOTINGS" AS THEY RELATE TO APPROVED METHODS OF BACKFILL. IF ROCK IS ENCOUNTERED, NYSDOT SHALL BE NOTIFIED FOR THE PROPER METHOD OF INSTALLATION. NO CONCRETE SHALL BE PLACED FOR THE TRAFFIC SIGNAL POLE FOUNDATION UNTIL THE WIDTH, EMBANKMENT AND REINFORCEMENT PARAMETERS HAVE BEEN APPROVED BY NYSDOT PERMIT ENGINEER. FAILURE TO COMPLY COULD RESULT IN THE REJECTION OF THE FOUNDATION INSTALLATION.
9.

UNDER INDUSTRIAL CODE RULE 53 (753), THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY ALL OPERATORS OF UTILITIES LISTED ON THE CURRENT 'MASTER LIST OF OPERATORS' ON FILE WITH THE CENTRAL REGISTRY PRIOR TO THE START OF THIS WORK SO THAT ALL THE VARIOUS UNDERGROUND UTILITY OPERATORS WILL BE ABLE TO LOCATE AND MARK THE LOCATIONS OF THEIR OWN UTILITIES. NO WORK BY THE CONTRACTOR SHALL COMMENCE UNTIL ALL THE OPERATORS HAVE LOCATED THEIR UTILITIES OR ADVISED THAT THEY HAVE NO UTILITIES IN THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION, INsofar AS THEY MAY BE ENDANGERED BY HIS OPERATIONS. THIS SHALL HOLD TRUE WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS. IF THEY ARE SHOWN ON THE DRAWINGS, THEIR LOCATION ARE NOT GUARANTEED. OTHER UTILITIES NOT SHOWN ON THESE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE DAMAGES, AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNDUE INTERRUPTION TO UTILITY SERVICE.

10.

WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NYSDOT SUPPLEMENT. SEE DRAWINGS HP-21 TO HP-26.
11.

IF TEMPORARY UTILITIES ARE REQUIRED, THE CONTRACTOR SHALL SEE TO IT THAT THEY ARE PROVIDED AT NO ADDITIONAL COST AND IT SHALL BE HIS OR HER RESPONSIBILITY TO MAINTAIN SUCH TEMPORARY FACILITIES FOR THE DURATION OF THE PROJECT AS NECESSARY.
12.

SIGNAL TIMING SHALL BE DETERMINED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION.
13.

SIGNAL SHALL BE MAINTAINED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION.
14.

ALL SIGNAL CABLES ENTERING THE CONTROLLER CABINET SHALL HAVE MYLAR OR BRASS TAGS PERMANENTLY AFFIXED WHICH SHALL IDENTIFY THE CABLE. EXAMPLE 14/10C-1. PAYMENT WILL BE INCLUDED UNDER VARIOUS SIGNAL CABLE ITEMS.
15.

ALL SIGNAL HEADS SHALL BE ALUMINUM AND PAINTED DARK GREEN.
16.

NYSDOT WILL PROVIDE TABLE OF SWITCH PACKS AND TABLE OF INPUT WIRING TO THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY NYSDOT WHEN THESE ARE NEEDED. NYSDOT WILL PROGRAM THE APPROVED CONTROLLER AND INSTALL IT DURING FINAL INSPECTION.

17.

CONTRACTOR SHALL PERFORM TEST PITS AT THE TRAFFIC SIGNAL POLE FOUNDATION LOCATIONS TO CONFIRM THAT THERE ARE NO UNDERGROUND UTILITY CONFLICTS PRIOR TO ORDERING POLES. CONTRACTOR TO VERIFY POLE HEIGHTS BEFORE ORDERING.

18.

ALL SIGNAL SECTIONS SHALL BE FITTED WITH STANDARD OPEN TYPE VISORS UNLESS OTHERWISE NOTED.

19.

UPON COMPLETION OF WORK AT AN INTERSECTION AND INSTALLATION OF THE SERVICE CONNECTION BY THE APPROPRIATE UTILITY COMPANY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER-IN-CHARGE THAT THE SIGNAL IS READY FOR INSPECTION BY THE NYSDOT TRAFFIC SIGNAL MAINTENANCE PERSONNEL. AT THE TIME OF INSPECTION, THE CONTRACTOR SHALL UNBAG THE NEW SIGNAL HEADS AND PROVIDE ACCESS TO ALL PULLBOXES FOR INSPECTION PURPOSES. THE CONTRACTOR SHALL REPOSITION ANY MAGNETIC DETECTOR PROBES AS REQUESTED BY THE ENGINEER-IN-CHARGE DURING THE INSPECTION. THE CONTRACTOR WILL BE NOTIFIED OF ANY DEFECTS FOUND DURING THE INSPECTION, AND SHALL MAKE THE NECESSARY CORRECTIONS FOR THE SIGNAL SYSTEM TO BE ACCEPTED. THE CONTRACTOR SHALL PROVIDE SUFFICIENT PERSONNEL AND TRAFFIC CONTROL DEVICES TO SAFELY MAINTAIN TRAFFIC THROUGH THE INTERSECTION WHILE THE INSPECTION IS BEING PERFORMED. THE CONTRACTOR SHALL REBAG THE SIGNAL HEADS SHOULD THE SYSTEM FAIL.

20.

ALL SIGNAL IMPROVEMENTS SHOWN ON THE PLANS, INCLUDING LANE DESTINATION SIGNS, TURNING LANES, CHANNELIZATION, PAVEMENT MARKINGS, ETC., SHALL BE IN PLACE BEFORE THE NEW SIGNAL SYSTEM IS PLACED IN OPERATION.

21.

AT LOCATIONS WHERE A 3-COLOR TRAFFIC SIGNAL IS TO BE INSTALLED AND NO 3-COLOR SIGNAL EXISTS, PORTABLE VARIABLE MESSAGE SIGNS (PVMS) SHALL BE INSTALLED ON ALL APPROACHES. ONE WEEK PRIOR TO THE TURN ON OF THE TRAFFIC SIGNAL, THE PVMS SHALL DISPLAY TWO ALTERNATING MESSAGES ON A LOOP. THE FIRST MESSAGE SHALL STATE "NEW SIGNAL PATTERN" FOLLOWED BY THE SECOND MESSAGE STATING "WEEK OF MMMM DD" WHERE 'MMMM' REPRESENTS THE ABBREVIATION FOR THE SPECIFIC MONTH AND 'DD' REPRESENTS THE SPECIFIC DATE NUMBER. WHEN THE TRAFFIC SIGNAL IS TURNED ON AND OPERATIONAL, THE PVMS SHALL DISPLAY "NEW SIGNAL PATTERN" FOR ONE WEEK AFTER TRAFFIC SIGNAL IS TURNED ON. THE COST OF THE MULTIPLE PVMS AND CHANGING OF THE VARIOUS MESSAGES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 619.01 – BASIC WORK ZONE TRAFFIC CONTROL.

22.

ALL ANCHOR BASE TRAFFIC SIGNAL SPAN WIRE, MAST ARM, AND PEDESTRIAN SIGNAL HEAD POLES SHALL BE EQUIPPED WITH ANCHOR BOLT COVERS.

23.

ALL POLES SHALL BE EQUIPPED WITH A GROUNDING TERMINAL LOCATED ON THE OPPOSITE SIDE OF THE POLE FROM THE HANDHOLE. GROUNDING TERMINALS LOCATED ADJACENT TO THE HANDHOLE ARE UNACCEPTABLE.

24.

ALL HOLES FOR L.B. CONDULETS, THIMBLEBOLTS, AND POLE-MOUNTED SIGNAL AND/OR PEDESTRIAN HEADS SHALL BE DRILLED. THE USE OF CUTTING TORCHES IS NOT PERMITTED.

25.

A CARD SHALL BE ATTACHED TO THE INSIDE DOOR OF EACH CONTROLLER CABINET AND LIST ALL THE PARTS BY SERIAL NUMBER, THE DATE OF INSTALLATION, AND THE DATE OF OFFICIAL OPERATION. WHERE STATE MICROCOMPUTERS ARE INSTALLED, THIS WILL BE DONE BY STATE SIGNAL MAINTENANCE PERSONNEL.

26.

THE BOTTOMS OF ALL TRAFFIC SIGNAL HEADS SHALL BE LOCATED AT LEAST 16.5 FEET ABOVE THE PAVEMENT SURFACE.

VEHICLE DETECTORS				
DETECTION ZONE NUMBER	TYPE	FUNCTION	SIZE	REMARKS
42	VIDEO	Ø2	18'x40'	EB THRU
44	VIDEO	Ø4	18'x40'	SB LEFT/RIGHT
45	VIDEO	Ø5	6'x40'	EB LEFT
46	VIDEO	Ø6	18'x40'	WB THRU/RIGHT
49	VIDEO	–	6'x6'	SB RIGHT COUNT
50	VIDEO	–	6'x6'	SB LEFT/RIGHT COUNT
51	VIDEO	–	6'x6'	SB LEFT COUNT
52	VIDEO	–	6'x6'	WB RIGHT COUNT
53	VIDEO	–	6'x6'	WB THRU/RIGHT COUNT
54	VIDEO	–	6'x6'	WB THRU COUNT
55	VIDEO	–	6'x6'	EB THRU COUNT
56	VIDEO	–	6'x6'	EB THRU COUNT
57	VIDEO	–	6'x6'	EB LEFT COUNT

SIGNAL HEADS									
HEAD	BRACKET	FACE	MODULES						BACK.
			680.810101 RED BALL	680.810103 YELLOW BALL	680.810104 YELLOW ARROW	680.810105 GREEN BALL	680.810106 GREEN ARROW	680.810107 TRAFFIC SIGNAL SECTION, TYPE I 12 INCH	680.81990008 TRAFFIC SIGNAL BACKPLATE
A	680.81230008	4	1	1	1	1	1	5	1
B	680.81240008	2,8	2	2		2		6	2
C	680.81240008	1,7	2	2		2		6	2
D	680.81230008	3	1	1		1		3	1
E	680.81230008	5	1	1	1	1	1	5	1
F	680.81230008	6	1	1		1		3	1

TABLE OF OPERATION								
PHASE	FACE							
	1	2	3	4	5	6	7	8
Ø6	G	G	G	R	R	R	R	R
Ø2	R	R	R	G	G	G	R	R
Ø2+Ø6	G	G	G	G	G	G	R	R
Ø5	R	R	R	+G/R	+G/R	R	R	R
Ø2+Ø5	R	R	R	+G/G	+G/G	G	R	R
Ø4	R	R	R	R	R	R	G	G
FLASHING OPERATION	FL. Y	FL. Y	FL. Y	FL. Y	FL. Y	FL. Y	FL. R	FL. R

SIGNAL POLES										
POLE NO.	LOCATION			ITEM	MOUNTING HEIGHT	MAST ARM LENGTH	FOOTING MOMENT (FT-KIP)	FOUNDATION		
	CENTERLINE STATION	OFFSET	SIDE					CODE	ANCHOR BOLT DIA.	ANCHOR BOLT LENGTH
S-1	20+89.46	51.69	L	680.621856	18	56	100	J7	SEE NOTE 4	
S-2	21+82.10	40.47	L	680.621856	18	56	100	J7	SEE NOTE 4	

ITEM NUMBERS	
ITEM	DESCRIPTION
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION
304.11000008	SUBBASE COURSE
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS
645.61	OVERHEAD SIGN PANELS
619.1612	MAINTAIN TRAFFIC SIGNAL EQUIPMENT
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM (GRIDSMArt)
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION
680.510501	PULL BOX-RECTANGULAR 26 INCH x 18 INCH REINFORCED CONCRETE
680.520108	CONDUIT, METAL STEEL, ZINC COATED 3 INCH DIAMETER
680.520110	CONDUIT, METAL STEEL, ZINC COATED 4 INCH DIAMETER
680.621856	TRAFFIC SIGNAL POLE, MAST ARM, 18 FEET MOUNTING HEIGHT, 56 FEET ARM LENGTH
680.730514	SIGNAL CABLE, 5 CONDUCTORS, 14 AWG.
680.731014	SIGNAL CABLE, 10 CONDUCTORS, 14 AWG.
680.80324515	INSTALL MICROCOMPUTER CABINET
680.810101	TRAFFIC SIGNAL MODULE – 12 INCH, RED BALL, LED
680.810103	TRAFFIC SIGNAL MODULE – 12 INCH, YELLOW BALL, LED
680.810104	TRAFFIC SIGNAL MODULE – 12 INCH, YELLOW ARROW, LED
680.810105	TRAFFIC SIGNAL MODULE – 12 INCH, GREEN BALL, LED
680.810106	TRAFFIC SIGNAL MODULE – 12 INCH, GREEN ARROW, LED
680.810107	TRAFFIC SIGNAL SECTION – TYPE I, 12 INCH
680.81230008	TRAFFIC SIGNAL BRACKET ASSEMBLY – 1 WAY MAST ARM MOUNT (CABLETYPE)
680.81240008	TRAFFIC SIGNAL BRACKET ASSEMBLY – 2 WAY MAST ARM MOUNT (CABLETYPE)
680.81990008	TRAFFIC SIGNAL BACK PLATES WITH YELLOW REFLECTIVE TAPE
680.8207	OVERHEAD SIGN ASSEMBLY, TYPE G
680.94000008	TRAFFIC SIGNAL SERVICE ENTRANCE
680.94997008	FURNISH AND INSTALL ELECTRICAL DISCONNECT GENERATOR TRANSFER SWITCH
680.95020615	SERVICE CABLE 2 CONDUCTOR, NO. 06 AWG

CONDUITS				
CONDUIT NO.	LOCATION		680.520108	680.520110
	FROM	TO	3" STEEL	4" STEEL
C-1	S-1	PB-1		X
C-2	PB-1	PB-2	X	
C-3	PB-2	S-2	X	

PULLBOXES				
PULLBOX NO.	LOCATION			680.510501
	CENTERLINE STATION	OFFSET	SIDE	RECTANGULAR 26X18 RC
PB-1	20+94.82	50.53	L	X
PB-2	21+76.53	40.63	L	X

CABLES							
FROM	ROUTE	TO	CABLE DESCRIPTION	# OF CABLES	680.730514	680.731014	680.95020615
	THROUGH				5C, 14 AWG	10C, 14 AWG	2C, 6 AWG
CONTROLLER	TO	SIGNAL HEAD A	14/10C-A-X/X	1		X	
CONTROLLER	TO	SIGNAL HEAD B	14/10C-B-X/X	1		X	
CONTROLLER	TO	SIGNAL HEAD C	14/10C-C-X/X	1		X	
CONTROLLER	TO	SIGNAL HEAD D	14/05C-D-X/X	1	X		
CONTROLLER	TO	SIGNAL HEAD E	14/10C-E-X/X	1		X	
CONTROLLER	TO	SIGNAL HEAD F	14/05C-F-X/X	1	X		
UTILITY POLE	OVERHEAD, S-1	CONTROLLER	SERVICE CABLE	1			X

SIGNS			
LOCATION	ITEMS	MUTCD	TEXT
G	680.8207	NYR3-27 36" X 36"	
H	680.8207	R3-5 L 30" X 36"	

No.	Revision	Date	By
1.	REVISED PER NYSDOT COMMENTS	05/20/2022	KRM
2.	REVISED PER NYSDOT COMMENTS	08/08/2022	SPG
3.	REVISED PER NYSDOT COMMENTS	10/14/2022	KRM
4.	REVISED PER NYSDOT COMMENTS	12/09/2022	KRM
Previous Editions Obsolete			

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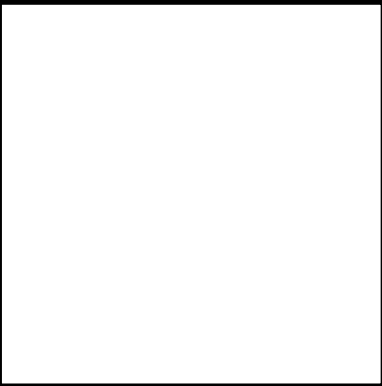
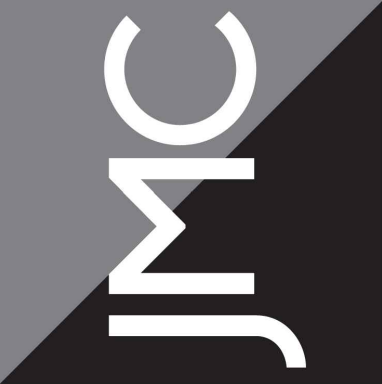
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TRAFFIC SIGNAL NOTES

(No. P-97)

COMMERCIAL CAMPUS AT FIELDS CORNER

NY 312 & PUGSLEY ROAD

TOWN OF SOUTHEAST, NEW YORK

Drawn: KRM Approved: MTP

Scale: NOT TO SCALE

Date: 11/24/2021

Project No: 14012/21121

14012-HWY-312-SIGNAL SIGNAL-NOTES-A

HWY-312-SIGNAL

Drawing No:

HP-20A

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