

CITY OF STAMFORD
OFFICE OF ADMINISTRATION
888 WASHINGTON BOULEVARD
P.O. BOX 10152
STAMFORD, CONNECTICUT 06904-2152

ADDENDUM NO. 1
(February 21, 2020)

Request for Qualifications No. 792

Broad Street Corridor Safety Improvements Design

Addendum No. 1 is being issued to all potential bidders to provide the items and attachments set forth herein which shall act to qualify, clarify, or otherwise modify the Contract Documents previously issued regarding the above referenced project. These items, whether of omission, addition, substitution, or clarification, shall be incorporated into the proposals submitted by all bidders, and receipt of this document and its attachments must be acknowledged, either in the space provided on the Bid Form or on the Contractor's Form of Proposal. Failure to do so may subject the Bidder to disqualification.

The items and references:

- Traffic signal plans for the following intersections are attached:
 - Broad Street at Atlantic St.
 - Note that the plan for the Broad & Atlantic intersection does not reflect the LPI that currently exists.
 - Broad street at Gay Street
 - Broad Street at Greyrock Pl.

All other terms and conditions of **RFQ No. 792** remain the same.

Erik J. Larson
Purchasing Agent

Cc: Frank W. Petise, P.E., Traffic Engineer
Purchasing Department File

MOVEMENT DIAGRAM																		TECHNICAL NOTES																	
PRE-EMPT 1						PRE-EMPT 2						PRE-EMPT 1																							
NTOR		PHASE 1		PHASE 2		PHASE 3		PHASE 4		PHASE 5		PHASE 6		PHASE 7		PHASE 8																			
FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL																		
1	R	R																																	
2	R	R																																	
3	R	R																																	
4	R	R																																	
5	R	R																																	
N1*	NTOR	NTOR	NTOR	YTP	YTP	YTP																													
N2*	NTOR	NTOR	NTOR	NTOR	NTOR	NTOR																													
P2	OFF	DW	DW	DW	WØ	DW	DW																												
P4	OFF	DW	DW	DW	DW	DW	DW																												
P6	OFF	DW	DW	DW	DW	DW	DW																												
MIN	4	3	1.0	5	3	1																													
MAX	12	5	3	40	5	3																													
MIN GRN	6			20																															
WALK				7 (2)																															
VEH EXT	2			20 (1)																															
MAX 1	10			40																															
MAX 2	10			40																															
YELLOW		3		40																															
RED			1																																
MODE	NON-LOCK			MIN/PED RECALL			OFF			NON-LOCK			NON-LOCK			MIN/PED RECALL			OFF																
INT START				THIS PHASE									THIS PHASE																						

STANDARD OVERLAP SKIP FEATURES APPLY
 PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
 COUNTDOWN DISPLAYS SHALL NOT BE USED DURING THE WALK INTERVAL NOR DURING THE YELLOW CHANGE INTERVAL OF A CONCURRENT VEHICULAR PHASE.
 ALL SPLITS AND OFFSETS TO BE DETERMINED BY ATMS.
 (1) COUNTDOWN DISPLAYS SHALL NOT BE USED DURING THE WALK "BEDFORD" DURING PEDESTRIAN WALK INTERVAL ONLY.
 (2) SPEECH MESSAGE "BEDFORD". WALK SIGNAL IS ON TO CROSS "BEDFORD" DURING PEDESTRIAN WALK INTERVAL ONLY.
 (3) SPEECH MESSAGE "BROAD". WALK SIGNAL IS ON TO CROSS "BROAD" DURING PEDESTRIAN WALK INTERVAL ONLY.
 (4) SPEECH MESSAGE "ATLANTIC". WALK SIGNAL IS ON TO CROSS "ATLANTIC" DURING PEDESTRIAN WALK INTERVAL ONLY.

* INTERNALLY ILLUMINATED SIGN DISPLAYS OF "NO TURN ON RED" (NTOR) AND "YIELD TO Peds" (YTP) ARE LINKED TO EACH SIGNAL PHASE.

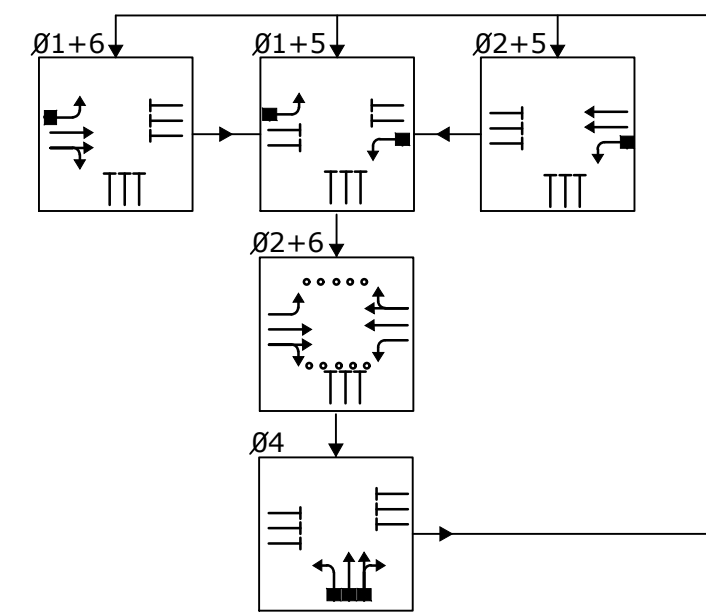
WIRING DETAIL	
HEAD #1,3	14/7
HEAD #P2,P4,P6	14/7
HEAD #2,4,5	14/5
VIDEO DET. CAM.	POE CAT 6
OPT. DET.	20/3
CCTV CAMERA	POE CAT6
ILLUM. STREET SIGN SERVICE	14/7
	8/2

NOTE: ALL CABLES SHALL BE INSTALLED WITHOUT ANY SPLICES.

DETECTORS			
IDENT	SIZE (WXL)	TURNS	MODE
D1	6'X50'	VIDEO	PRESENCE
D4	6'X50'	VIDEO	PRESENCE
D5	6'X50'	VIDEO	PRESENCE

COORDINATION TYPE - TRAFFICWARE ATMS.

PHASE SEQUENCE



MAST ARM DESIGN CRITERIA PER SPECIFIC LOCATION

ID #	SHAFT HEIGHT	ARM LENGTH	APPROXIMATE ARM MOUNTING HEIGHT	YEAR INSTALLED	CAMERA BRACKET LENGTH
(A)	30'				15'
(A)	35'				15'
(B)	45'				-

CONSTRUCTION NOTES

(REVISION #XX)

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.
 THE CONTRACTOR SHALL STAKE ALL RIGHT OF WAY PRIOR TO EXCAVATION.
 ALL WORK, EQUIPMENT, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF STAMFORD AND CTDOT FORM 817.
 ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY PRIOR TO INSTALLATION.
 THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.
 THE CONTRACTOR SHALL CONTACT THE CITY OF STAMFORD AT (203)977-5809 IN ORDER TO HAVE THE WATER CONTROL BUREAU LOCATE SANITARY AND STORM SEWERS AND LATERALS.
 THE CONTRACTOR SHALL REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT.
 ALL SALVAGEABLE TRAFFIC SIGNAL EQUIPMENT SHALL BE RETURNED TO THE CITY OF STAMFORD TRAFFIC SIGNAL MAINTENANCE FACILITY ON CRESCENT STREET. CONTACT MR. PAUL MONTANARO AT (203)977-4704 THREE WEEKS PRIOR TO CONSTRUCTION TO COORDINATE.
 SIGNAL APPURTENANCES WHEN IN OR ADJACENT TO SIDEWALK SHALL BE FIELD LOCATED TO PROVIDE A FREE PATH OF NOT LESS THAN FOUR FEET.
 CONTROLLER CABINET TO OPEN FIELD SIDE.
 OPTICAL DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. OPTICAL DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH OPTICAL DETECTOR AND THE CONTROLLER CABINET.
 VIDEO DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR HIS DESIGNATED REPRESENTATIVE.
 A VERTICAL CLEARANCE OF 16 TO 18 FEET OVER ROADWAY PAVEMENT IS REQUIRED FOR TRAFFIC SIGNALS.
 ALL SIGNAL EQUIPMENT IS TO BE FURNISHED WITH FEDERAL STANDARD NO. 595A, BLACK MATTED FINISHED, 37038

- (H) INSTALL TYPE 2 SIDEWALK RAMP PER DETAILS.
- (R) INSTALL CCTV CAMERA ON 10 FOOT BRACKET.
- (U) INSTALL ILLUMINATED STREET SIGN ON MAST ARM (4'X1').
- (V) INSTALL VIDEO DETECTION CAMERA ON 15 FOOT BRACKET.
- (X) CONSTRUCT TYPE 1 SIDEWALK RAMP PER DETAIL SHEETS.
- (Y) CONSTRUCT TYPE 2 SIDEWALK RAMP PER DETAIL SHEETS.

ENERGY BY - CITY		METER # UNMETERED SERVICE		INTERSECTION # 401	
MAINT LEVEL - 24 HOURS		SERVICE POLE - MH			
SIGNAL FACES					
(R) 12"	(R) 12"	(A) 18"	P2,P4,P6 COUNTDOWN EGGCRATE VISOR		
(Y) 1,3*	(Y) 2,4,5		* BI-COLORED (YELLOW/GREEN) ARROW ALL INDICATIONS SHALL BE L.E.D. ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH YELLOW RETROREFLECTIVE BORDER.		
PRE-EMPTION SETTINGS					
PRIORITY	PRE-EMPT 1	PRE-EMPT 2			
DET. LOCK	YES	YES			
DELAY	3	5			
ALT. MIN. GRN	10	10			
ALT. YELLOW	3	3			
ALT. RED	2	2			
ALT. RED CLR.	PARENT	PARENT			
HOLD GREEN	20	20			
HOLD YELLOW	3	3			
HOLD RED	2	2			
HOLD PHASE	2&6	4			
EXT PHASE	4	2&6			
EXT CALL	NONE	NONE			

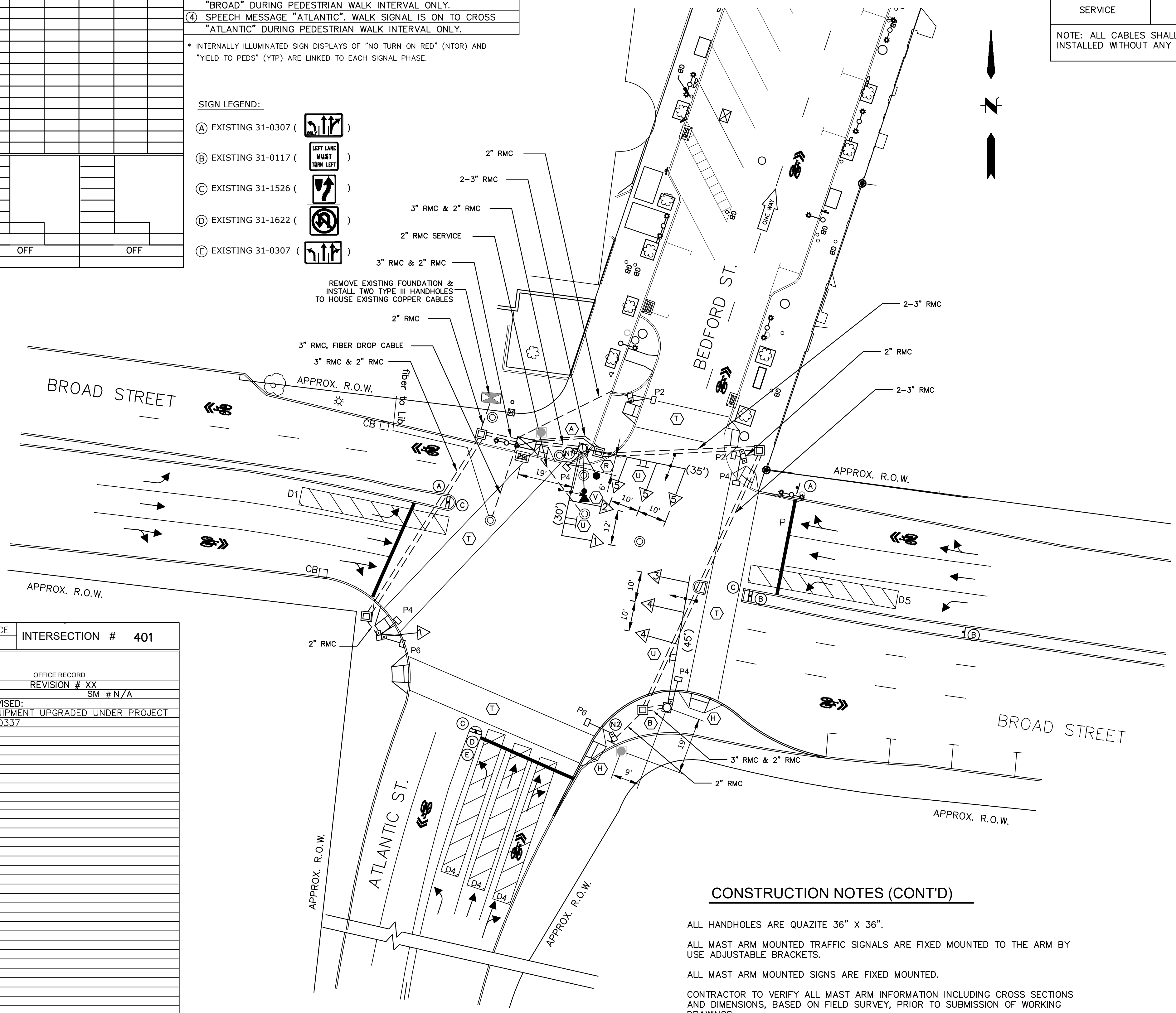
NOTES

- (T) BAR TYPE CROSSWALK (16"-16"X8") - CITY MAINTAINED
- (N) INTERNALLY ILLUMINATED "NO TURN ON RED" SIGN

LEGEND:		PROPOSED COMBINATION POLE		TRAFFIC SIGNAL FACE		MAGNETIC DETECTOR		EXISTING CONTROLLER		EXISTING R.M.C.		MICROWAVE DETECTOR		VIDEO DETECTOR		TRAFFIC CONTROL SIGNAL LAYOUT			
○	PROPOSED WOOD SPAN POLE	○	PROPOSED UTILITY POLE	□	PEDESTRIAN SIGNAL HEAD	■	SYSTEM DETECTOR	□	EXISTING CONTROLLER (RIGID METAL CONDUIT)	○	EXISTING R.M.C. (RIGID METAL CONDUIT)	○	STRAIN INSULATOR	▶	RED ARROW	▶	RED YIELD	WØ	WALK/PED. CLR.
○	EXISTING WOOD SPAN POLE	○	EXISTING UTILITY POLE	□	AUDIBLE PEDESTRIAN SIGNAL	■	OPTICAL DETECTOR	□	EXISTING HANDHOLE (EQUAZ)	○	CABLE CLOSURE	○	AUXILIARY TERMINATION CABINET	▶	YELLOW ARROW	▶	YELLOW WALK	D.W.	DONT WALK
○	EXISTING STEEL SPAN POLE	○	PEDESTAL MOUNTING	□	LOOP DETECTOR	■	PROPOSED CONTROLLER	□	PROPOSED R.M.C. (RIGID METAL CONDUIT)	○	CCTV CAMERA	○	AUXILIARY EQUIPMENT CABINET	▶	GREEN ARROW	▶	GREEN WALK	FL.	FLASHING

SIGN LEGEND:

- (A) EXISTING 31-0307 ()
- (B) EXISTING 31-0117 ()
- (C) EXISTING 31-1526 ()
- (D) EXISTING 31-1622 ()
- (E) EXISTING 31-0307 ()



CONSTRUCTION NOTES (CONT'D)

ALL HANDHOLES ARE QUAZITE 36" X 36".
 ALL MAST ARM MOUNTED TRAFFIC SIGNALS ARE FIXED MOUNTED TO THE ARM BY USE ADJUSTABLE BRACKETS.
 ALL MAST ARM MOUNTED SIGNS ARE FIXED MOUNTED.
 CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS.

CITY SIGNAL

STATE INT #NONE CITY INT #135-401

CITY OF STAMFORD			
BROAD ST. AT ATLANTIC ST.			
NO.	DATE	INIT.	DESCRIPTION

REV. INTERSECTION # 401

PROJECT NO.:	0135-0337
DRAWING NO.:	TSP-06
SHEET NO.:	

MOVEMENT DIAGRAM	PHASES								
	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	
N/TOR	FLASH	GRN	CL	GRN	CL	GRN	CL	GRN	CL
1	Y	Y	Y	Y	Y	Y	Y	Y	Y
2	Y	G	G	Y	R	R	R	R	R
3	Y	R	R	R	R	R	R	R	R
4	R	R	R	R	R	R	R	R	R
5	R	R	R	R	R	R	R	R	R
P	OFF	DW	DW	DW	DW	DW	DW	DW	DW
MIN	5	3	1	30	3	1	7/10	5	3
MAX	10	3	3	60	5	3	20/21	30	5
MIN GRN	5			30					
WALK									
PED CLR							7		
VEH EXT							20		
MAY 1									
MAY 2									
YELLOW							0.1		
RED							0.1		
ADD INT									
MAY INT									
TTR									
MIN GAP									
MODE	NON-LOOK			MIN-RECALL THIS PHASE			LOCK		
INI START									

ENERGY BY-CITY METER # -- INTERSECTION #

MAINT 24hr SERVICE POLE--

NORMAL 0.854 kW 730 hr/mo 623 kWh/mo

FLASH 1kW hr/mo

SIGNAL FACES

SIGNAL INSTALLED

STATE OF CONNECTICUT
DEPT OF TRANSPORTATION
DIVISION OF TRAFFIC ENGINEERING

CITY OF STAMFORD
BROAD STREET AT
GAY STREET EXTENSION

TRAFFIC CONTROL SIGNAL

ENGINEER DATE
DRAWN DATE
CHECKED BY
SUBMITTED BY
APPROVED BY

FUSS & O'NEILL, INC.
JANUARY 1997

LEGEND

TOWN SIGNAL

PRE-EMPTION SETTINGS

ALL RED INDICATORS TO BE L.E.D. LAMPS

* BI-COLORED ARROW

1.6

2.3

4.5

REV. #	INTERSECTION #

DETECTORS	IDENT SIZE (WxL)	TURNS	MODE	FUNCTION	T I M E	DAYS	COORDINATION TYPE-UTCS	PHASE SPLITS								PERMISS PERIOD	SYSTEM	TECHNICAL NOTES
								Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8			
D1A	6'X6'	3	PRESENCE	FLASH	FUTURE													
D1B	6'X6'	3	PRESENCE	FLASH	FUTURE													
D1B	11'X6'	3	5' DELAY															

STATE OF CONNECTICUT
DEPT OF TRANSPORTATION
DIVISION OF TRAFFIC ENGINEERING

CITY OF STAMFORD
BROAD STREET AT
GAY STREET EXTENSION

TRAFFIC CONTROL SIGNAL

ENGINEER DATE
DRAWN DATE
CHECKED BY
SUBMITTED BY
APPROVED BY

FUSS & O'NEILL, INC.
JANUARY 1997

LEGEND

TOWN SIGNAL

PRE-EMPTION SETTINGS

ALL RED INDICATORS TO BE L.E.D. LAMPS

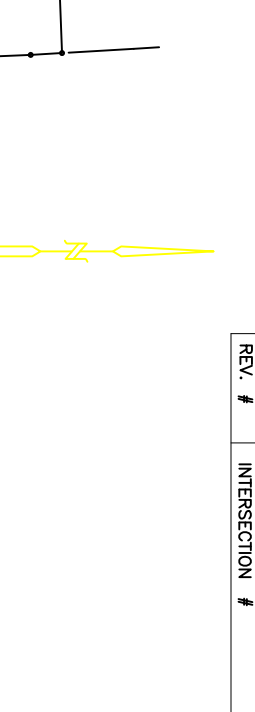
* BI-COLORED ARROW

1.6

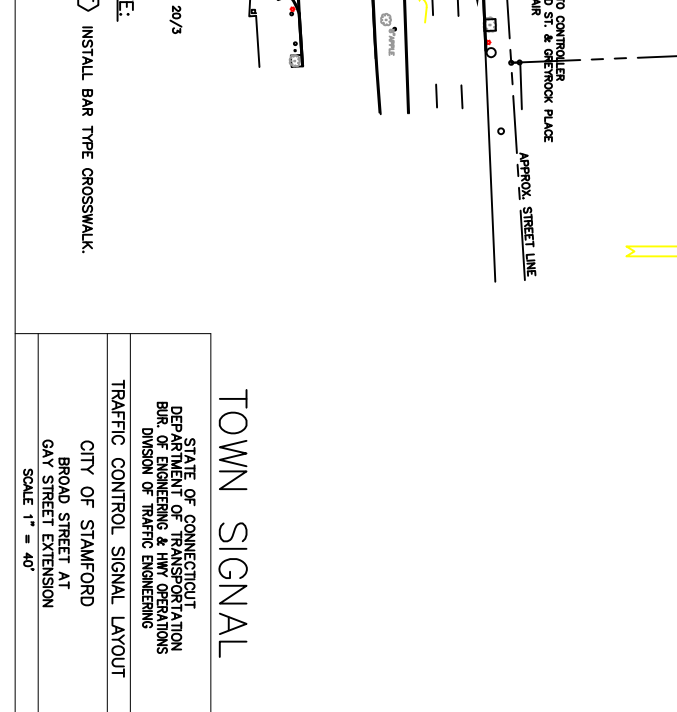
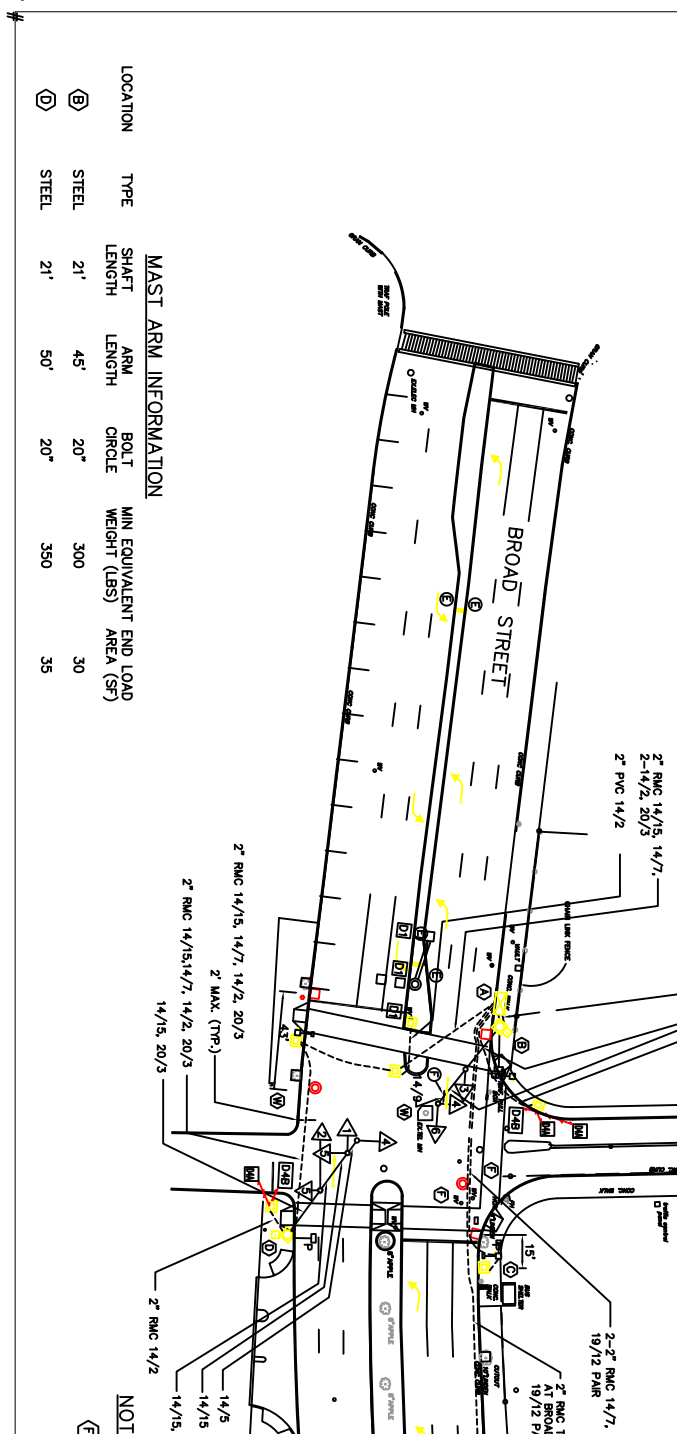
2.3

4.5

- CONSTRUCTION NOTES
- ALL SIGNAL EQUIPMENT IS NEW.
 - ALL WORK, EQUIPMENT AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF STAMFORD AND CONDOT.
 - THE CONTRACTOR SHALL CONTACT CALL BEFORE YOU DIG AT 1-800-922-4455 PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
 - WORK AT THIS INTERSECTION INCLUDES BUT IS NOT LIMITED TO THE INSTALLATION OF THE CONTROLLER CABINET, PHASE SELECTOR, AND ALL RELATED EQUIPMENT THEREIN, TRAFFIC AND PEDESTRIAN SIGNALS, CABLE DISCONNECT HANGERS, LOOP DETECTORS, OPTICAL DETECTORS, PEDESTRIAN PUSH BUTTONS, ALUMINUM PEDESTALS, PAVEMENT MARKINGS AND SIGNS.
 - CONTROLLER SHALL BE TRANSYT 3000 SERIES MOUNTED IN A "P" TYPE CABINET.
 - THE TRAFFIC SIGNALS SHALL HAVE 18 CIRCUIT DISCONNECT HANGER ASSEMBLIES.
 - THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF STAMFORD PRIOR TO COMMENCING CONSTRUCTION.
 - LOOP DETECTORS SHALL BE INSTALLED 3' OFF FACE OF CURB OR LAKE LINE AND SHALL BE 8' APART EXCEPT AS NOTED OTHERWISE.
 - THE CONTRACTOR SHALL CONTACT THE CITY OF STAMFORD PUBLIC WORKS DEPARTMENT IN ORDER TO MARK OUT THE LOCATION OF THE EXISTING SANITARY SEWER AND LATERS.
 - THE CONTRACTOR SHALL REMOVE THE EXISTING PAVEMENT MARKINGS AS NECESSARY TO INSTALL NEW PAVEMENT MARKINGS TO THE LOCATION AND LIMITS INDICATED ON THE PLAN.
 - ALL 20'3" CABLE SHOWN ON THE PLAN SHALL BE CONTINUOUS OPTICAL CABLE.
 - OPTICAL DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR HIS DESIGNATED REPRESENTATIVE.
 - PRE-EMPTION IS TO OPERATE THROUGH THE INTERNAL PRE-EMPTION OF THE SIGNAL CONTROLLER.
 - ALL PEDESTRIAN APPURTENANCES SHALL CONFORM TO THE 1992 ADA SPECIFICATIONS.
 - NEW COMMUNICATION CABLE AND CONDUIT SHALL BE INSTALLED BETWEEN THE CONTROLLER AND THE EXISTING CONTROLLER AT THE INTERSECTION OF GREYLOCK PLACE AND BROAD ST.
 - CONTRACTOR SHALL STAKE RIGHT OF WAY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.
 - PROGRAM AND COORDINATION DATA TO BE SUPPLIED BY THE CITY OF STAMFORD DURING CONSTRUCTION.



- REV. # INTERSECTION #
- INSTALL FULL ACTUATED 8 PHASE CONTROLLER AND TYPE "P" CABINET ON TYPE IV TRAFFIC CONTROL FOUNDATION. CABINET DOOR TO OPEN FIELD SIDE.
 - INSTALL 45" MAST ARM AND FOUNDATION WITH 1 WAY PEDESTRIAN SIGNAL, PUSH BUTTON AND SIGN.
 - INSTALL 8' ALUMINUM PEDESTAL AND TYPE I TRAFFIC CONTROL FOUNDATION WITH 2 WAY PEDESTRIAN SIGNALS, PUSH BUTTON AND SIGN. BACK OF FOUNDATION TO BE AT STREET LINE.
 - INSTALL 50' MAST ARM AND FOUNDATION WITH 1 WAY PEDESTRIAN SIGNAL, PUSH BUTTON AND SIGN.
 - 30"x30" CONCRETE HANDHOLE



STATE OF CONNECTICUT
DEPT OF TRANSPORTATION
DIVISION OF TRAFFIC ENGINEERING

CITY OF STAMFORD
BROAD STREET AT
GAY STREET EXTENSION

TRAFFIC CONTROL SIGNAL LAYOUT

ENGINEER DATE
DRAWN DATE
CHECKED BY
SUBMITTED BY
APPROVED BY

FUSS & O'NEILL, INC.
JANUARY 1997

LEGEND

TOWN SIGNAL

PRE-EMPTION SETTINGS

ALL RED INDICATORS TO BE L.E.D. LAMPS

* BI-COLORED ARROW

1.6

2.3

4.5

RELEASED FOR CONSTRUCTION

CITY OF STAMFORD
SIGNAL PLAN
INTERSECTION IMPROVEMENTS
STAMFORD, CT.
BROAD ST AT GAY ST. EXTENSION
JOB NUMBER
PHASE DATE
SHEET NO. 1 OF 1

MOVEMENT DIAGRAM

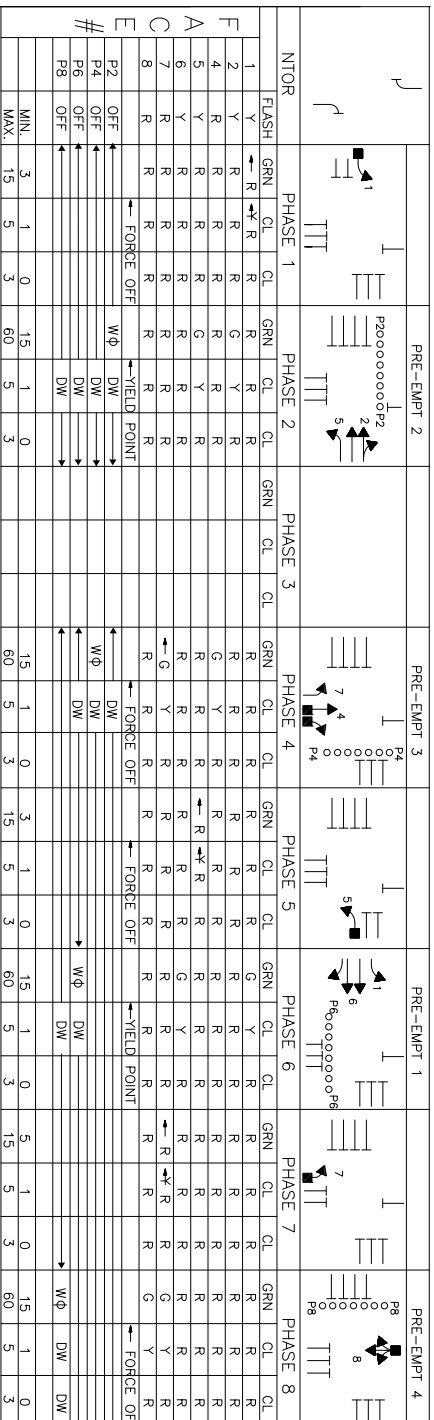
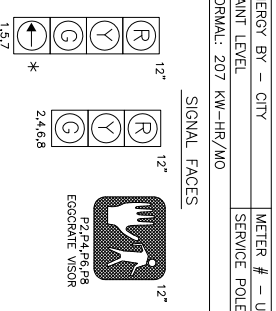


Table with columns: DETECTORS, PROGRAM, COORDINATION TYPE, PHASE SPLITS, SEC. %, PERMS SYSTEM, TECHNICAL NOTES. It lists detector sizes, functions, and cycle times for various phases.

Table with columns: IDENT, SIZE (WxL), MODE, FUNCTION, T I M E, DMS, CYCLE, OFFSET, PHASE SPLITS, SEC. %, PERMS SYSTEM, TECHNICAL NOTES. It provides detailed timing and technical specifications for each detector.

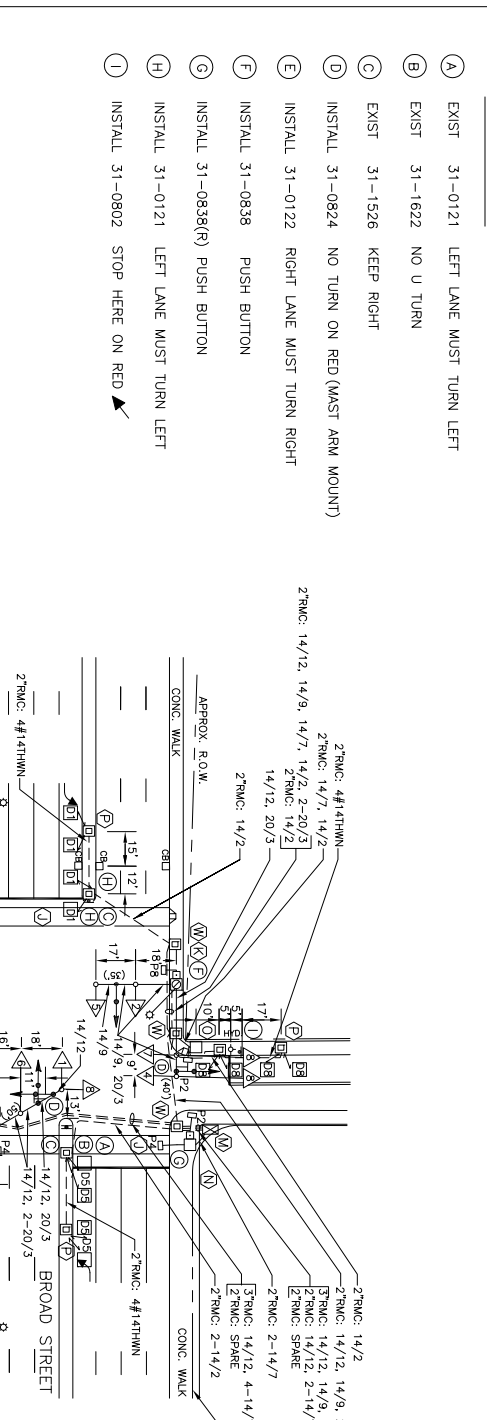


ENERGY BY - CITY MAINT LEVEL SERVICE POLE- UNDERGROUND INTERSECTION # 222

Table with columns: PRE-EMPT, PRE-EMPT, PRE-EMPT, PRE-EMPT, PRE-EMPT, PRE-EMPT. It lists various pre-emption and recall settings for the signal.

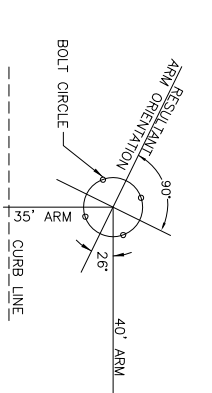
Table with columns: PRE-EMPT, PRE-EMPT, PRE-EMPT, PRE-EMPT, PRE-EMPT, PRE-EMPT. It lists various pre-emption and recall settings for the signal.

CONSTRUCTION NOTES (REVISION #1)
1. ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.
2. SIGNAL PLAN WAS DIGITIZED FROM EXISTING TRAFFIC SIGNAL PLAN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS.
... (17 items) ...



COMBINATION STEEL MAST ARM INFORMATION
TWIN STEEL MAST ARM INFORMATION
NOTES:
1. BAR TYPE CROSSWALK (16" - 16" X 8")
2. TWIN STEEL MAST ARM INFORMATION
... (pole specifications) ...

TOWN SIGNAL
CITY OF STAMFORD
BROAD STREET AT GREYSTOCK PLACE
TRAFFIC CONTROL SIGNAL LAYOUT
SCALEB - 1" = 40'



CONNECTICUT DEPARTMENT OF TRANSPORTATION
PROJECT TITLE: BROAD STREET AT GREYSTOCK PLACE
DRAWING NO.: TCS-002
PROJECT NO.: 135-280
1. ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.
2. SIGNAL PLAN WAS DIGITIZED FROM EXISTING TRAFFIC SIGNAL PLAN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS.
... (17 items) ...