Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
NONE		1 1 2 2		3 3				

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y				G	Y	R	R	R	R	R	R	R															
2	Y				G	Y	R	R	R	R	R	R	R															
3	R				R	R	R	R	R	R	G	Y	R															
P	OFF				← DW →			WØ	← DW →																			

INTERVALS	PHASE 1	PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8					
MIN GRN		15						7																	
WALK					7																				
PED CLR					15																				
VEH EXT		5						2																	
MAX 1		15						22																	
MAX 2		30						30																	
YELLOW			4.3			0.1			3.6																
RED				2.2			0			1.5															
ADD INIT		0.9																							
MAX INIT		29																							
TBR																									
TTR																									
MIN GAP		5																							
MODE	OFF	MIN RECALL			NON-LOCK			NON-LOCK			OFF			OFF			OFF			OFF			OFF		
INIT START		THIS PHASE																							

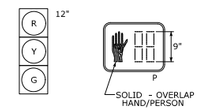
DETECTORS			
IDENT	SIZE (WXL)	TYPE	MODE

SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP					
MASTER 093-209	PROGRAM			CYCLE	OFFSET	
	FUNCTION	TIME	DAYS		SEC	%
088-280 088-232	FLASH	NONE				
093-210 093-211		SEE TECH NOTES				
093-254 093-204						
093-212 093-231						
093-213 093-237						
093-259 093-252						
093-251 093-250						

TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY

OFFICE RECORD		
REV #	TIR #	SM # SIGNAL REVISED:
REVISED TIMINGS ETC...		

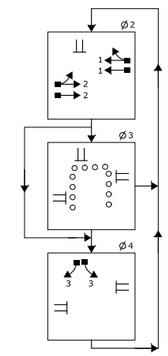
SIGNAL FACES

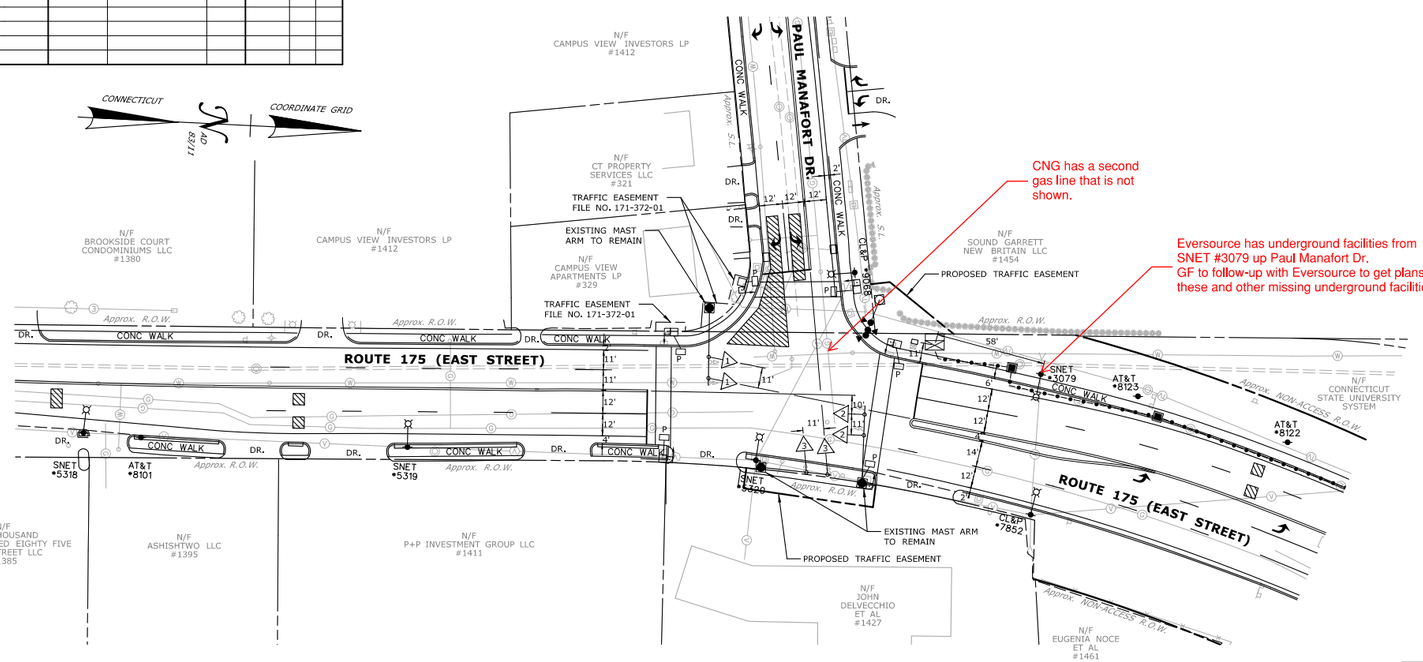


ALL SIGNAL INDICATIONS TO HAVE LED LAMPS.

ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.

SIGNAL PHASING DIAGRAM





CNG has a second gas line that is not shown.

Eversource has underground facilities from SNET #3079 up Paul Manafort Dr.
GF to follow-up with Eversource to get plans of these and other missing underground facilities.

	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	J.J.	J.J.

REV # INTERSECTION #088-280

ENERGY BY CITY	METER # N/A
MAINT LEVEL 5	SERVICE POLE CL&P #7852
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

LEGEND:
R, Y, G RED, YEL, GRN
R RED ARROW
Y YELLOW ARROW
G GREEN ARROW
WØ WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE

PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 175
(EAST ST.) AT
PAUL MANAFORT DR.

TOWN: NEW BRITAIN

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 0093-0218
DRAWING NO. TCS-01
SHEET NO.

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_01_INT 088-280.dgn

SCALE 1" = 40'

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	
NONE	1	2 5		4 4	5	1 6			

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	←/ R	↖/ R	R	R	R	R				R	R	R	R	R	R	G	Y	R									
2	Y	R	R	R	G	Y	R				R	R	R	R	R	R	R	R	R									
3	R	R	R	R	R	R	R				G	Y	R	R	R	R	R	R	R									
4	R	R	R	R	R	R	R				G	Y	R	R	R	R	R	R	R									
5	Y	R	R	R	G	Y	R				R	R	R	←/ R	↖/ R	R	R	R	R									
6	Y	R	R	R	R	R	R				R	R	R	R	R	R	G	Y	R									
P	OFF	← DW →			WØ	← DW →					← DW →			← DW →			WØ	← DW →										

INTERVALS																												
MIN GRN	5			15						7			5			15												
WALK				7												7												
PED CLR				10												10												
VEH EXT	1.5			2						2			1.5			2												
MAX 1	10			15						15			25			15												
MAX 2	10			15						21			48			15												
YELLOW		3			4.3						3.2			3			4.3											
RED			1.0			2.1						2.0			1.0			2.1										
ADD INIT																												
MAX INIT																												
TBR																												
TTR																												
MIN GAP																												
MODE	NON-LOCK			MIN RECALL			OFF			NON-LOCK			NON-LOCK			MIN RECALL			OFF			OFF			OFF		
INIT START				THIS PHASE												THIS PHASE												

DETECTORS

IDENT	SIZE (WXL)	TYPE	MODE

SYSTEM LOC MASTER 093-209	COORDINATION TYPE: CLOSED LOOP PROGRAM FUNCTION	TIME	DAYS	CYCLE	OFFSET SEC	OFFSET %
088-280 088-232	FLASH	NONE				
093-210 093-211		SEE TECH NOTES				
093-254 093-204						
093-212 093-231						
093-213 093-237						
093-259 093-252						
093-251 093-250						
------- -------						
------- -------						

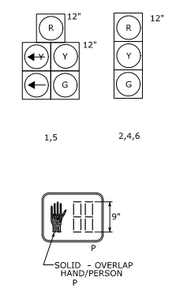
TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
PHASE 1 & 5 TO DRIVE FACES 1 & 5 ARROWS ONLY.
PHASE 2 & 6 TO DRIVE FACES 1 & 5 R, Y, AND G ONLY.
PHASE 2 & 6 TO CALL PEDESTRIAN FACE.

OFFICE RECORD

REV # TIR # SM # SIGNAL REVISED:
REVISED TIMINGS ETC...

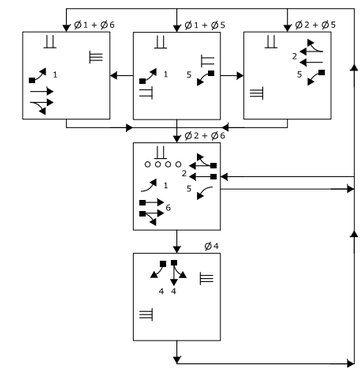
SIGNAL FACES

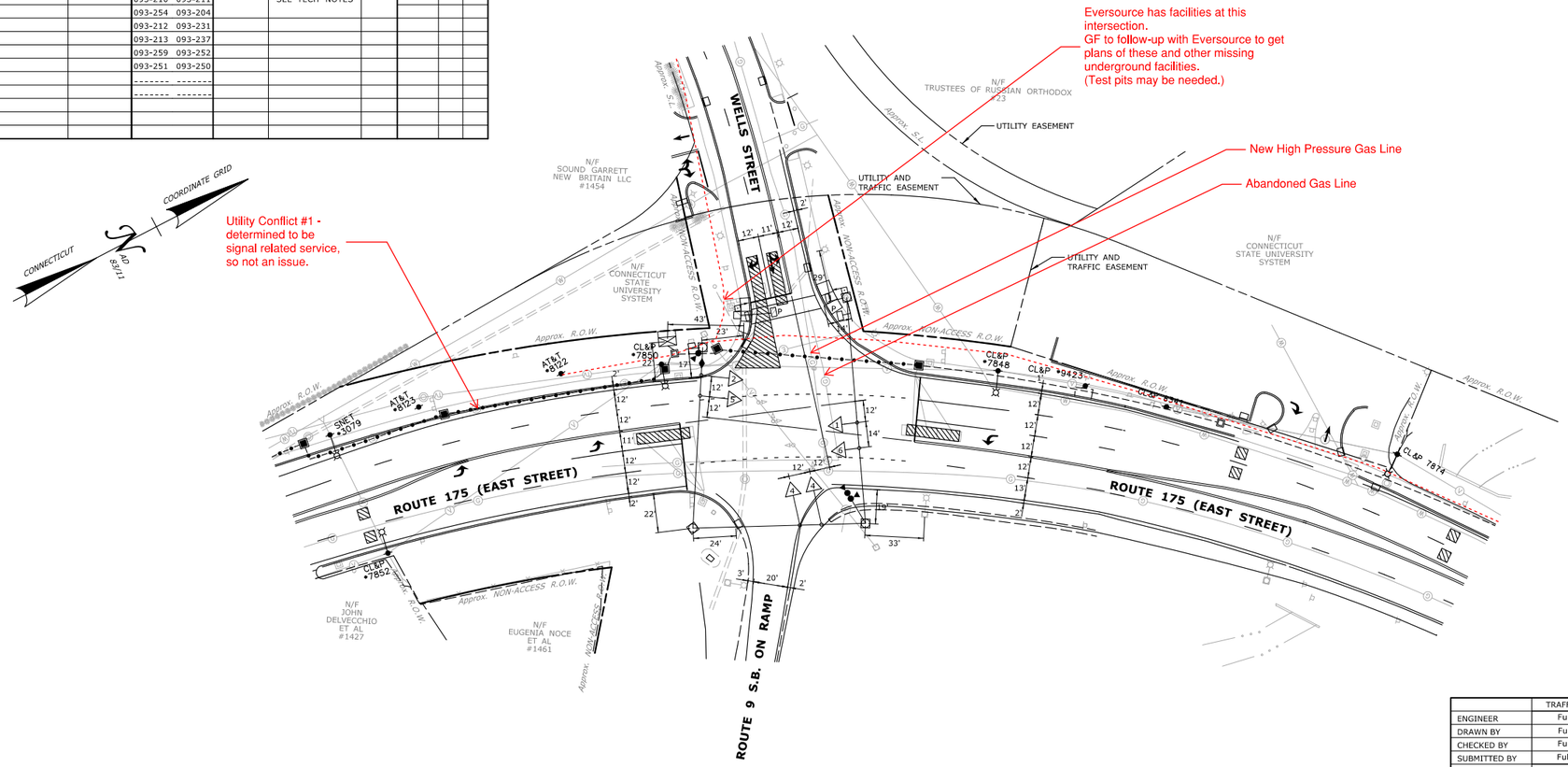


ALL SIGNAL INDICATIONS TO HAVE LED LAMPS.

ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.

SIGNAL PHASING DIAGRAM





	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Full Name	Full Name
DRAWN BY	Full Name	Full Name
CHECKED BY	Full Name	Full Name
SUBMITTED BY	Full Name	Full Name
APPROVED BY		
APPROVED DATE	_/_/_	_/_/_

REV # INTERSECTION #088-232

ENERGY BY CITY	METER # N/A
MAINT LEVEL 5	SERVICE POLE CL&P #7850
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

LEGEND:
R, Y, G RED, YEL, GRN
R RED ARROW
Y YELLOW ARROW
G GREEN ARROW
WØ WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE

PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_02_INT 088-232.dgn

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 175
(EAST ST.) AT
WELLS ST. &
ROUTE 9 S.B. ENTRANCE RAMP

SCALE 1" = 40'

TOWN: **NEW BRITAIN**

PROJECT NO. 0093-0218
DRAWING NO. TCS-02
SHEET NO.

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
NONE		1 1 2 2		3 3				

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y				G	Y	R				R	R	R															
2	Y				G	Y	R				R	R	R															
3	R				R	R	R				G	Y	R															

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN		15		9				
WALK								
PED CLR								
VEH EXT		2.5		2				
MAX 1		30		40				
MAX 2		35		38				
YELLOW		3		3				
RED		1		1				
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	OFF	MIN RECALL	OFF	NON-LOCK	OFF	OFF	OFF	OFF
INIT START		THIS PHASE						

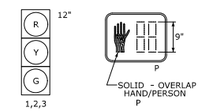
DETECTORS			
IDENT	SIZE (WXL)	TYPE	MODE

SYSTEM LOC		COORDINATION TYPE: CLOSED LOOP					
MASTER 093-209		PROGRAM			CYCLE	OFFSET	
		FUNCTION	TIME	DAYS		SEC	%
088-280	088-232	FLASH	NONE				
093-210	093-211		SEE TECH NOTES				
093-254	093-204						
093-212	093-231						
093-213	093-237						
093-259	093-252						
093-251	093-250						

TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY

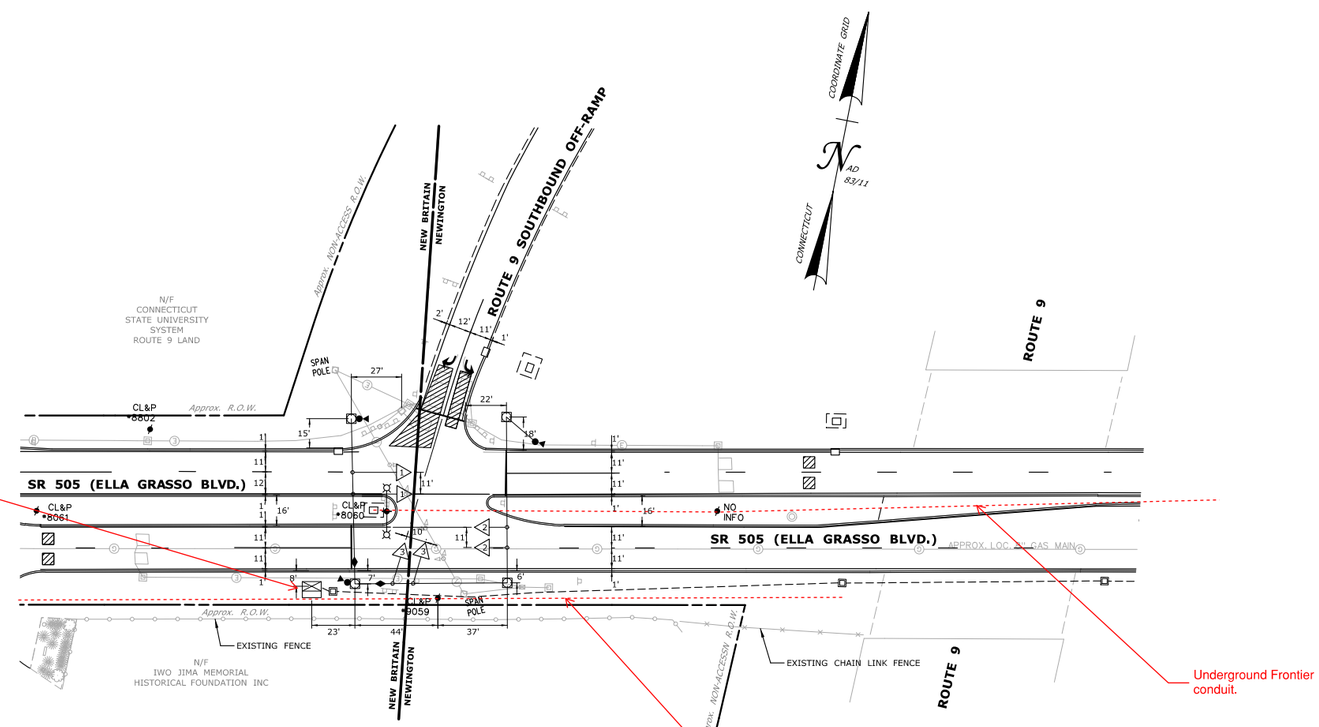
OFFICE RECORD
REV # TIR # SM # SIGNAL REVISED:
REVISED TIMINGS ETC...

SIGNAL FACES



ALL SIGNAL INDICATIONS TO HAVE LED LAMPS.

ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.



Provide conduit for interconnect cable between controller and intersection of Ella Grass Blvd (SR 505)/Barbour Road to the west.

Underground Frontier conduit.

Eversource has facilities at this intersection.

	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	J.J.	J.J.

REV # INTERSECTION #093-250

ENERGY BY TOWN	METER # N/A
MAINT LEVEL	SERVICE POLE CL&P #8060
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

LEGEND:
R, Y, G RED, YEL, GRN
R RED ARROW
Y YELLOW ARROW
G GREEN ARROW
WØ WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE

PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_03_INT 093-250.dgn

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

S.R. 505
(ELLA GRASSO BLVD.) AT
ROUTE 9 S.B. OFF-RAMP

SCALE 1" = 40'

TOWN: NEWINGTON & NEW BRITAIN

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 0093-0218
DRAWING NO. TCS-03
SHEET NO.

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
NONE								

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	←/G	↖/G	G	G	Y	R	R	R	R	R	R	R															
2	Y	G	G	G	G	Y	R	R	R	R	R	R	R															
3	Y	R	R	R	G	Y	R	R	R	R	R	R	R															
4	R	R	R	R	R	R	R	R	R	R	G	Y	R															
5	R	R	R	R	R	R	R	R	R	R	G	Y	R															
6	R	R /→	R /↖	R	R	R	R	R	R	R	G	Y /→	R /→															
P	OFF	DW			DW			WØ	DW		DW																	

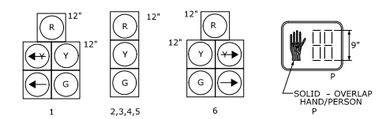
INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	3	15		9				
WALK			7					
PED CLR			20					
VEH EXT	2	3		3				
MAX 1	12	33		18				
MAX 2	27	33		20				
YELLOW	3	4	4	4				
RED	1	1	0	1				
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON-LOCK	MIN RECALL	NON-LOCK	NON-LOCK	OFF	OFF	OFF	OFF
INIT START		THIS PHASE						

DETECTORS				SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP					
IDENT	SIZE (WXL)	TYPE	MODE	MASTER 093-209	PROGRAM FUNCTION	PROGRAM TIME	PROGRAM DAYS	CYCLE	OFFSET SEC	OFFSET %
				088-280 088-232	FLASH	NONE				
				093-210 093-211		SEE TECH NOTES				
				093-254 093-204						
				093-212 093-231						
				093-213 093-237						
				093-259 093-252						
				093-251 093-250						

TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY

OFFICE RECORD			
REV #	TIR #	SM #	SIGNAL REVISED:
REVISED TIMINGS ETC...			

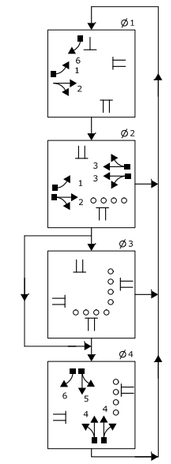
SIGNAL FACES

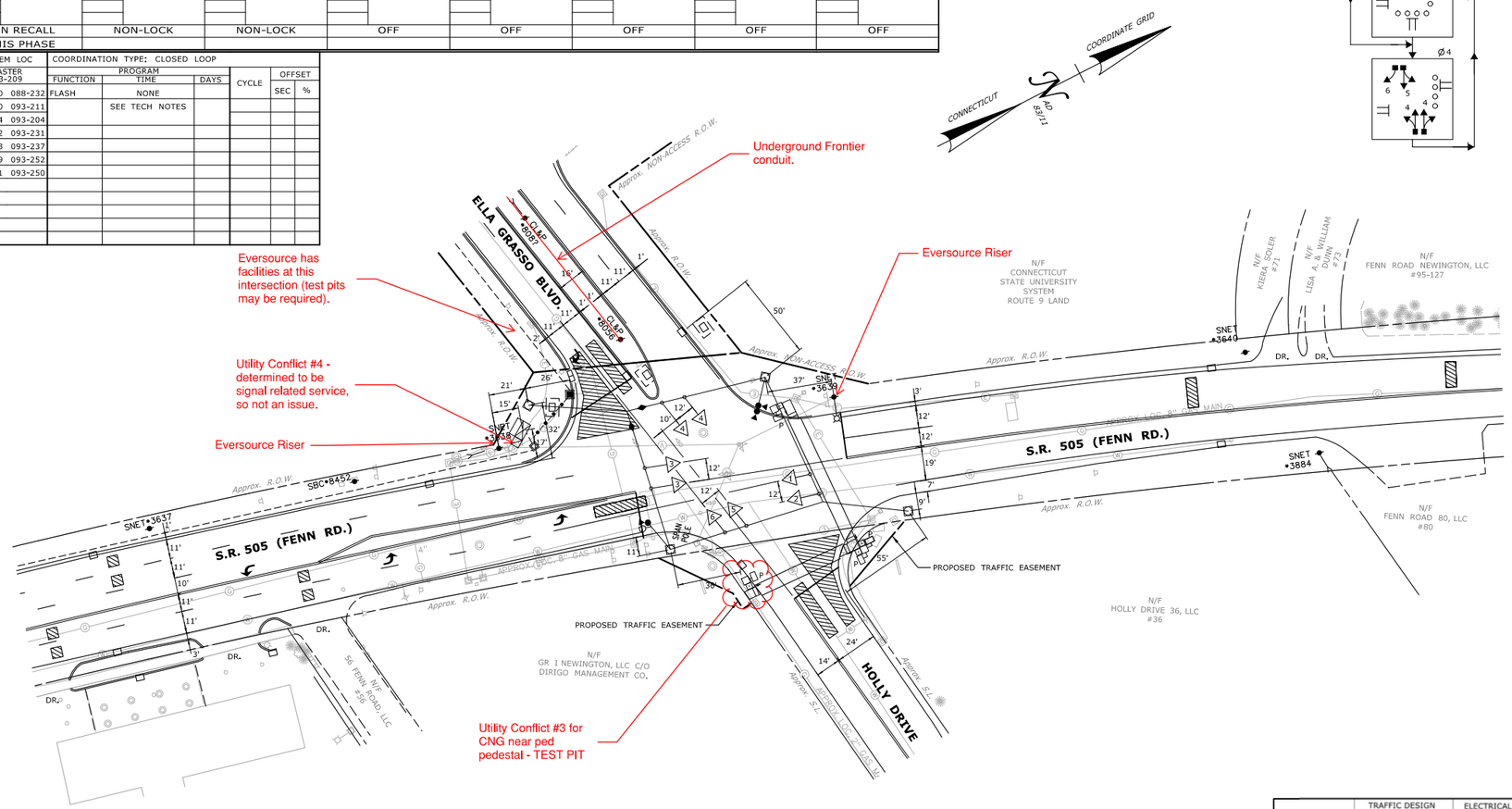


ALL SIGNAL INDICATIONS TO HAVE LED LAMPS.

ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.

SIGNAL PHASING DIAGRAM





	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	J.J.	J.J.

REV # INTERSECTION #093-251

ENERGY BY TOWN	METER # N/A
MAINT LEVEL	SERVICE POLE SNET #3638
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

LEGEND:
R, Y, G RED, YEL, GRN
R RED ARROW
Y YELLOW ARROW
G GREEN ARROW
WØ WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING
PTZ CAMERA

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE

PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

S.R. 505 (FENN RD.)
AT ELLA GRASSO BLVD.
& HOLLY DR.

TOWN: NEWINGTON

PROJECT NO. 0093-0218

DRAWING NO. TCS-04

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

SHEET NO.

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_04_INT 093-251.dgn

SCALE 1" = 40'

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
NONE	2, 1, 6	2, 1, 3, 4		4, 5, 6				

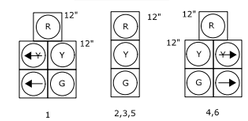
FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	←/ G	↓↓ / G	G	G	Y	R				R	R	R															
2	Y	G	G	G	G	Y	R				R	R	R															
3	Y	R	R	R	G	Y	R				R	R	R															
4	Y	R	R	R	G	Y/→	R/→				R/→	R / ↓↓	R															
5	R	R	R	R	R	R	R				G	Y	R															
6	R	R/→	R / ↓↓	R	R	R	R				G	Y/→	R/→															

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		9				
WALK								
PED CLR								
VEH EXT	2.5	5.0		3.0				
MAX 1	15	25		15				
MAX 2	20	40		5				
YELLOW	3.0	4.0		3.0				
RED	1	2		1				
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON-LOCK	MIN RECALL	OFF	NON-LOCK	OFF	OFF	OFF	OFF
INIT START		THIS PHASE						

DETECTORS				SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP					
IDENT	SIZE (WXL)	TYPE	MODE	MASTER 093-209	PROGRAM FUNCTION	PROGRAM TIME	PROGRAM DAYS	CYCLE	OFFSET SEC	OFFSET %
				088-280 088-232	FLASH	NONE				
				093-210 093-211		SEE TECH NOTES				
				093-254 093-204						
				093-212 093-231						
				093-213 093-237						
				093-259 093-252						
				093-251 093-250						

TECHNICAL NOTES	OFFICE RECORD
STANDARD OVERLAP SKIP FEATURES APPLY	REV # TIR # SM # SIGNAL REVISED:
	REVISED TIMINGS ETC...

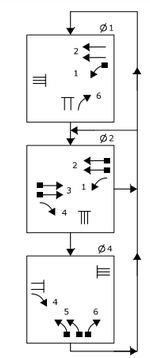
SIGNAL FACES



ALL SIGNAL INDICATIONS TO HAVE LED LAMPS.

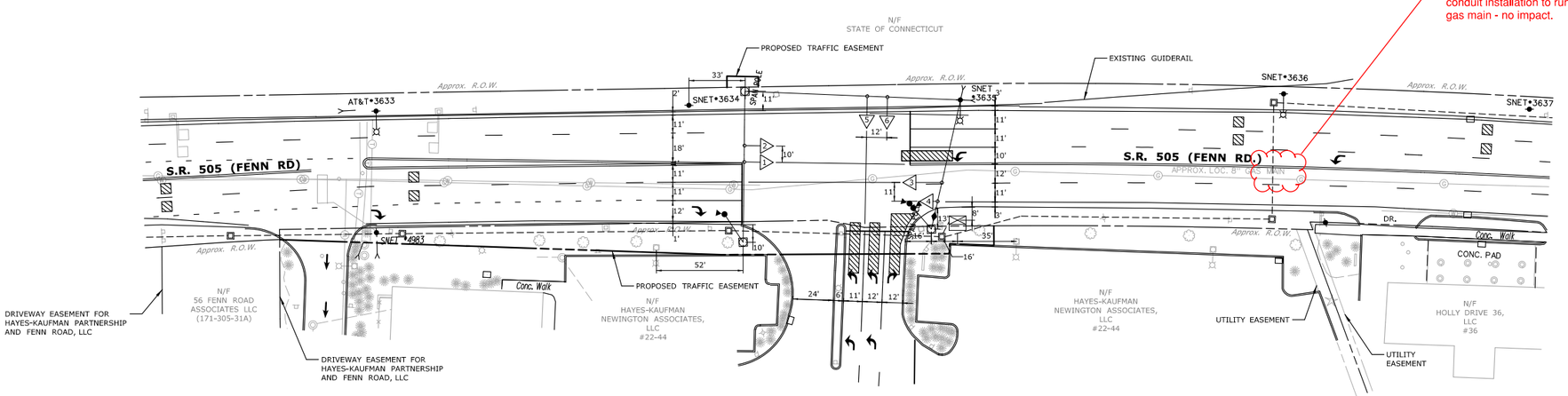
ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.

SIGNAL PHASING DIAGRAM



CONNECTICUT
COORDINATE GRID
N
AD 83/11

Utility Conflict No. 5. Gas Main is about 4 feet deep. Proposed conduit installation to run over gas main - no impact.



	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	J.J.	J.J.

REV # INTERSECTION #093-252

ENERGY BY DEVELOPER	METER # N/A
MAINT LEVEL	SERVICE POLE SNET #3635
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

LEGEND:
R, Y, G RED, YEL, GRN
R RED ARROW
Y YELLOW ARROW
G GREEN ARROW
WØ WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE

PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

S.R. 505
(FENN RD.) AT
FENN ROAD PLAZA DRIVEWAY

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_05_INT 093-252.dgn

SCALE 1" = 40'

TOWN: **NEWINGTON**

PROJECT NO. 0093-0218

DRAWING NO. TCS-05

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

SHEET NO.

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
NONE								

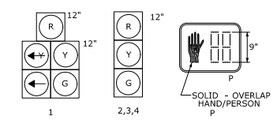
FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	← G	← G	G	G	Y	R	R	R	R	R	R	R															
2	Y	G	G	G	G	Y	R	R	R	R	R	R	R															
3	Y	R	R	R	G	Y	R	R	R	R	R	R	R															
4	R	R	R	R	R	R	R	R	R	R	G	Y	R															
P	OFF	←		DW →			←	WØ		→	←	DW	→															
						← YIELD POINT																						

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4
MIN GRN	4	15	7	5
WALK			18	
PED CLR				
VEH EXT	1.5	3		1.5
MAX 1	9	40		15
MAX 2	9	40		15
YELLOW	3.0	4.0	4.0	3.0
RED	1.0	2.0	0	2.0
ADD INIT				
MAX INIT				
TBR				
TTR				
MIN GAP				
MODE	NON-LOCK	MIN RECALL	NON-LOCK	NON-LOCK
INIT START		THIS PHASE		

DETECTORS				SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP					
IDENT	SIZE (WXL)	TYPE	MODE	MASTER 093-209	PROGRAM FUNCTION	PROGRAM TIME	PROGRAM DAYS	CYCLE	OFFSET SEC	OFFSET %
				088-280 088-232	FLASH	NONE				
				093-210 093-211		SEE TECH NOTES				
				093-254 093-204						
				093-212 093-231						
				093-213 093-237						
				093-259 093-252						
				093-251 093-250						
				------- -------						
				------- -------						

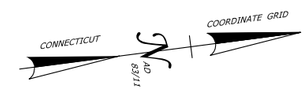
TECHNICAL NOTES	OFFICE RECORD
STANDARD OVERLAP SKIP FEATURES APPLY	REV # TIR # SM # SIGNAL REVISED:
	REVISED TIMINGS ETC...

SIGNAL FACES

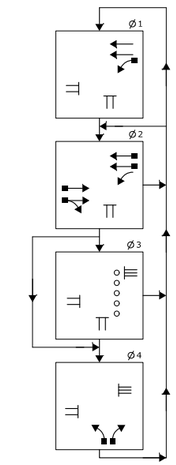


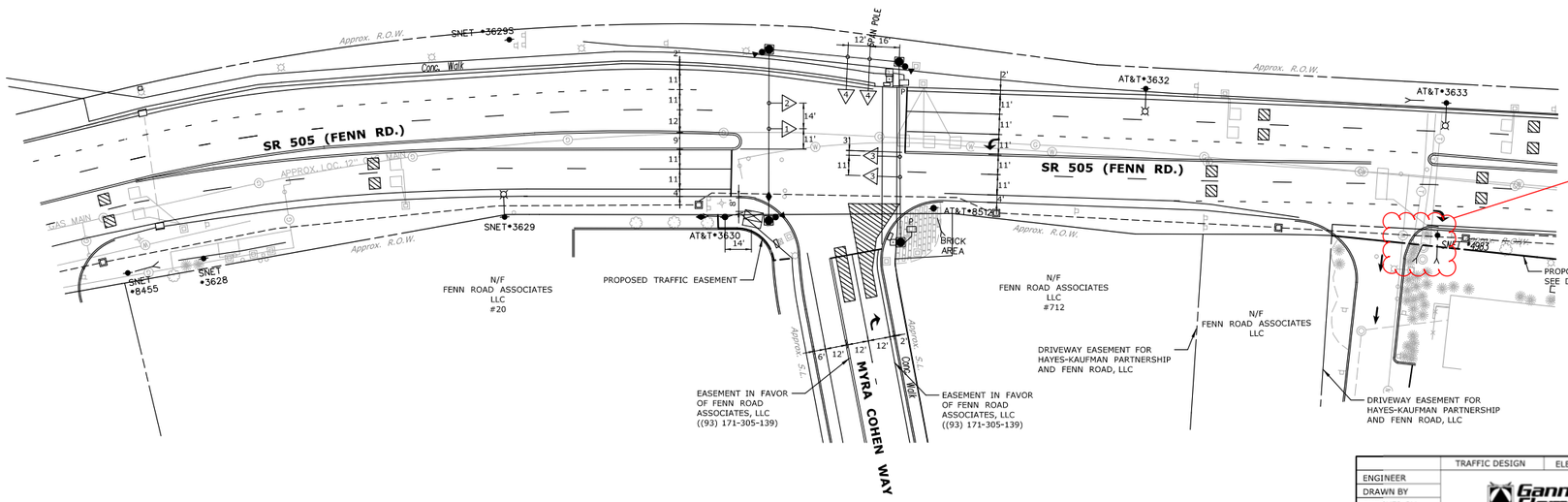
ALL SIGNAL INDICATIONS HAVE LED LAMPS.

ALL OVERHEAD SIGNAL FACES HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.



SIGNAL PHASING DIAGRAM





Utility Conflict Nos. 6 & 7. Proposed conduit installation to run over or under water and communications conduits - no impact.

Frontier to review record information.

	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	J.J.	J.J.

REV # INTERSECTION #093-259

ENERGY BY TOWN	METER # N/A
MAINT LEVEL 5	SERVICE POLE SNET #3630
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

LEGEND:
R, Y, G RED, YEL, GRN
R RED ARROW
Y YELLOW ARROW
G GREEN ARROW
WØ WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE

PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_06_INT 093-259.dgn

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

S.R. 505
(FENN RD.) AT
MYRA COHEN WAY (CEDAR STATION)

SCALE 1" = 40'

TOWN: **NEWINGTON**

PROJECT NO. 0093-0218

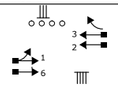
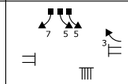
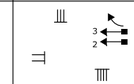
DRAWING NO. TCS-06

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

SHEET NO.

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4 PRE-EMPT 1 & 4	PHASE 5 PRE-EMPT 2	PHASE 6	PHASE 7	PHASE 8 PRE-EMPT 3
NONE								

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	R	←/ G	↓/ G	G	G	Y	R				R	R	R	R	R	R							R	R	R			
2	R	R	R	R	G	Y	R				R	R	R	R	R	R							G	Y	R			
3	R	R	R	R	G	Y ①	R ②				R	R	R	R /→	R /→	R							G	Y	R			
4	R	R	R	R	R	R	R				G	Y	R	R	R	R							R	R	R			
5	↓R	↓R	↓R	↓R	↓R	↓R	↓R				↓R	↓R	↓R	←	↓Y	↓R							↓R	↓R	↓R			
6	R	G	G	G	G	Y	R				R	R	R	R	R	R							R	R	R			
7	R	→	↓Y	R	R	R	R				R	R	R	→	→③	→④							R	R	R			
8	R	R	R	R	R	R	R				←/ G	Y	R	R	R	R							R	R	R			
P	OFF	← DW →			WØ	← DW →					← DW →			← DW →									← DW →					
					←YIELD	POINT																						

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	
MIN GRN	5	15		9	10			5	
WALK		7							
PED CLR		15							
VEH EXT	1.5	3.0		3	3				
MAX 1	12	35		29	23			15	
MAX 2	14	45		25	27			15	
YELLOW	3.0	3.9		3.9	3.0			3.9	
RED	1	1.4		2.1	2.1			1.4	
ADD INIT									
MAX INIT									
TBR									
TTR									
MIN GAP									
MODE	NON-LOCK	MIN RECALL	OFF	NON-LOCK	NON-LOCK	OFF	OFF	ON/OMIT	OFF
INIT START		THIS PHASE							

DETECTORS				SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP					
IDENT	SIZE (WXL)	TYPE	MODE	MASTER 093-209	PROGRAM FUNCTION	PROGRAM TIME	PROGRAM DAYS	CYCLE	OFFSET SEC	OFFSET %
				088-280 088-232	FLASH	NONE				
				093-210 093-211		SEE TECH NOTES				
				093-254 093-204						
				093-212 093-231						
				093-213 093-237						
				093-259 093-252						
				093-251 093-250						

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY

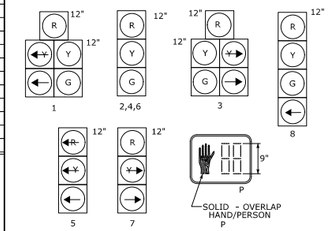
1. TO BE Y /→ IF PHASE 5 IS NEXT
2. TO BE R /→ IF PHASE 5 IS NEXT
3. TO BE ↓Y IF PHASE 2 IS NEXT
4. TO BE ↓R IF PHASE 2 IS NEXT

OFFICE RECORD

REV # TIR # SM # SIGNAL REVISED:

REVISED TIMINGS ETC...

SIGNAL FACES



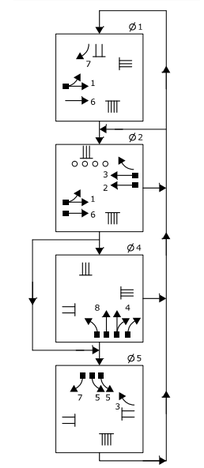
ALL SIGNAL INDICATIONS HAVE LED LAMPS.

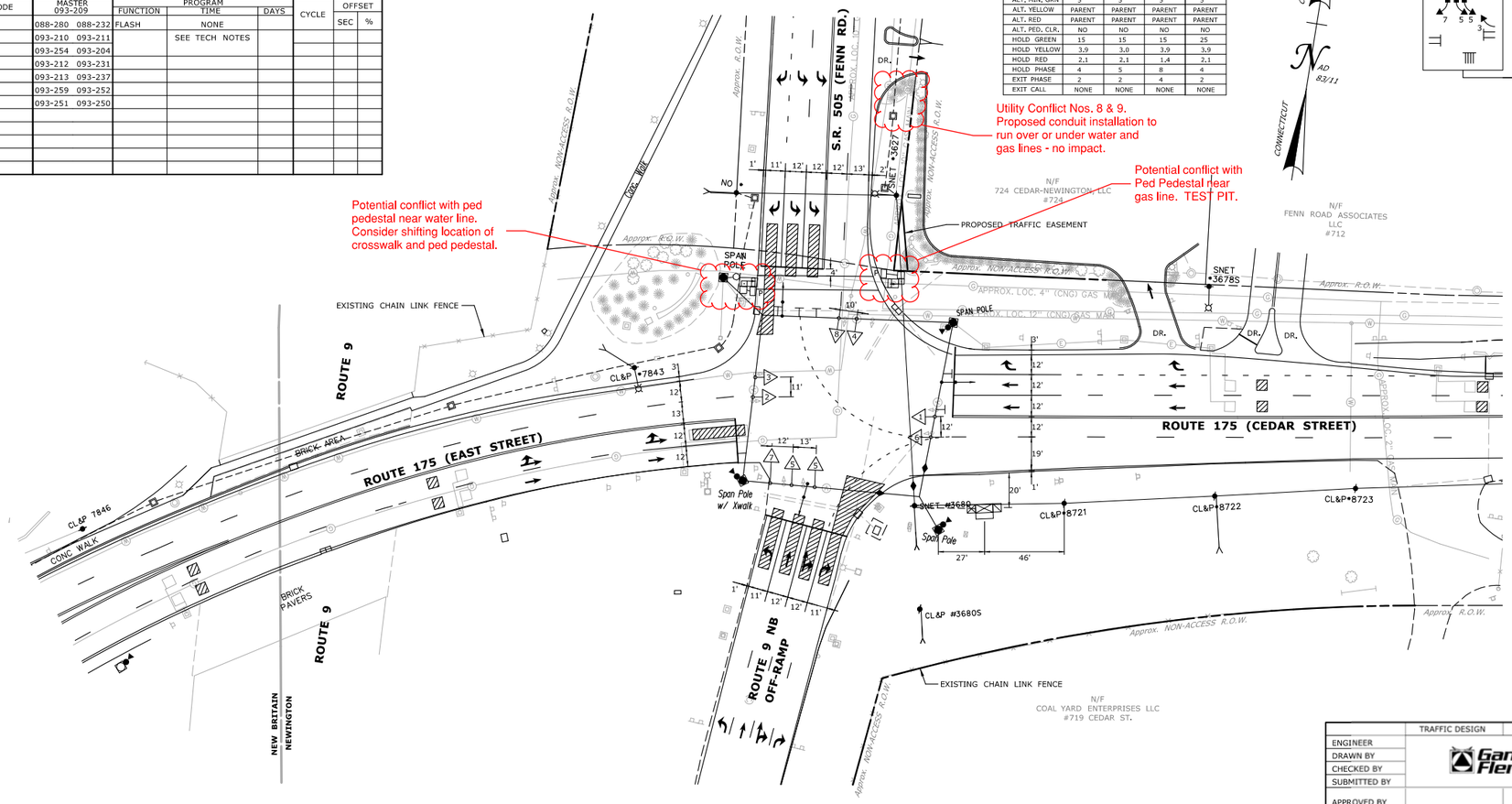
ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.

PRE-EMPTION SETTINGS

	PRE-EMPT 1	PRE-EMPT 2	PRE-EMPT 3	PRE-EMPT 4
PRIORITY	NO	NO	NO	NO
DET. LOCK	YES	YES	YES	YES
DELAY	0	0	0	0
ALT. MIN. GRN	5	5	5	5
ALT. YELLOW	PARENT	PARENT	PARENT	PARENT
ALT. RED	PARENT	PARENT	PARENT	PARENT
ALT. PED. CLR.	NO	NO	NO	NO
HOLD GREEN	15	15	15	25
HOLD YELLOW	3.9	3.0	3.9	3.9
HOLD RED	2.1	2.1	1.4	2.1
HOLD PHASE	4	5	8	4
EXIT PHASE	2	2	4	2
EXIT CALL	NONE	NONE	NONE	NONE

SIGNAL PHASING DIAGRAM





	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	__/__/__	__/__/__

REV # INTERSECTION #093-209

ENERGY BY STATE	METER # N/A
MAINT LEVEL 2	SERVICE POLE SNET #3680
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

LEGEND:

- R, Y, G RED, YEL, GRN
- ←R RED ARROW
- ←Y YELLOW ARROW
- ← GREEN ARROW
- WØ WALK/ PED. CLR
- D.W. DON'T WALK
- FL. FLASHING
- PTZ CAMERA
- PROPOSED WOOD SPAN POLE
- EXISTING WOOD SPAN POLE
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- PEDESTAL MOUNTING
- PEDESTRIAN PUSH BUTTON & SIGN
- DIRECTIONAL ARW. FOR PUSH BUTTON
- TRAFFIC SIGNAL FACE
- PEDESTRIAN SIGNAL FACE
- DET. LEADS IN SAW CUT
- PROPOSED RMC (RIGID METAL CONDUIT)
- EXISTING RMC (RIGID METAL CONDUIT)
- AUXILIARY TERMINATION CABINET
- AUXILIARY EQUIPMENT CABINET
- VIDEO DETECTION ZONE
- PROPOSED CONTROLLER
- EXISTING CONTROLLER
- LOOP DETECTOR
- SD SYSTEM DETECTOR
- MAGNETIC DETECTOR
- OPTICAL DETECTOR
- VIDEO DETECTOR
- AUDIO DETECTOR
- VC VIDEO CAMERA CABLE
- CABLE CLOSURE
- WIRELESS SENSOR
- WIRELESS RECEIVER
- WIRELESS TRANSMITTER
- GUY WIRE
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_07_INT 093-209.dgn

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 175 (EAST ST. & CEDAR ST.) AT S.R. 505 (FENN RD.) & ROUTE 9 NB OFF-RAMP

SCALE 1" = 40'

TOWN: NEWINGTON

PROJECT NO. 0093-0218

DRAWING NO. TCS-07

SHEET NO.

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	
NONE									

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	←/ G	↖/ G	G	G	G	G	←/ G	Y	R	R	R	R															
2	Y	G	G	G	G	G	G	G	Y	R	R	R	R															
3	Y	R	R	R	G	Y	R	R	R	R	R	R	R															
4	R	R	R	R	R	R	R	R	R	R	G	Y	R															
5	R	R	R	R	R	R	R	R	R	R	G	Y	R															

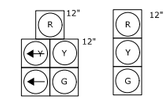
INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	
MIN GRN	6	15	6	7					
WALK									
PED CLR									
VEH EXT	1		1	3					
MAX 1	10	22	6	21					
MAX 2	17	34	9	30					
YELLOW	3	4	4	3					
RED	0	2	2	2					
ADD INIT									
MAX INIT									
TBR									
TTR									
MIN GAP									
MODE	MAX RECALL	MIN RECALL	NON-LOCK	NON-LOCK	OFF	OFF	OFF	OFF	OFF
INIT START		THIS PHASE							

DETECTORS				SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP					
IDENT	SIZE (WXL)	TYPE	MODE	MASTER 093-209	PROGRAM FUNCTION	PROGRAM TIME	PROGRAM DAYS	CYCLE	OFFSET SEC	OFFSET %
				088-280 088-232	FLASH	NONE				
				093-210 093-211		SEE TECH NOTES				
				093-254 093-204						
				093-212 093-231						
				093-213 093-237						
				093-259 093-252						
				093-251 093-250						

TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY
PHASE 3 TO ALWAYS PRECEDE PHASE 4.
PHASE 1 TO BE OMITTED IF PHASE 4 IS CALLED.
PHASE 3 ON TO CALL PHASE 4.

OFFICE RECORD			
REV #	TIR #	SM #	SIGNAL REVISED:
REVISED TIMINGS ETC...			

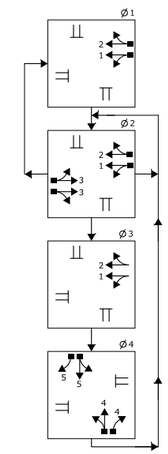
SIGNAL FACES

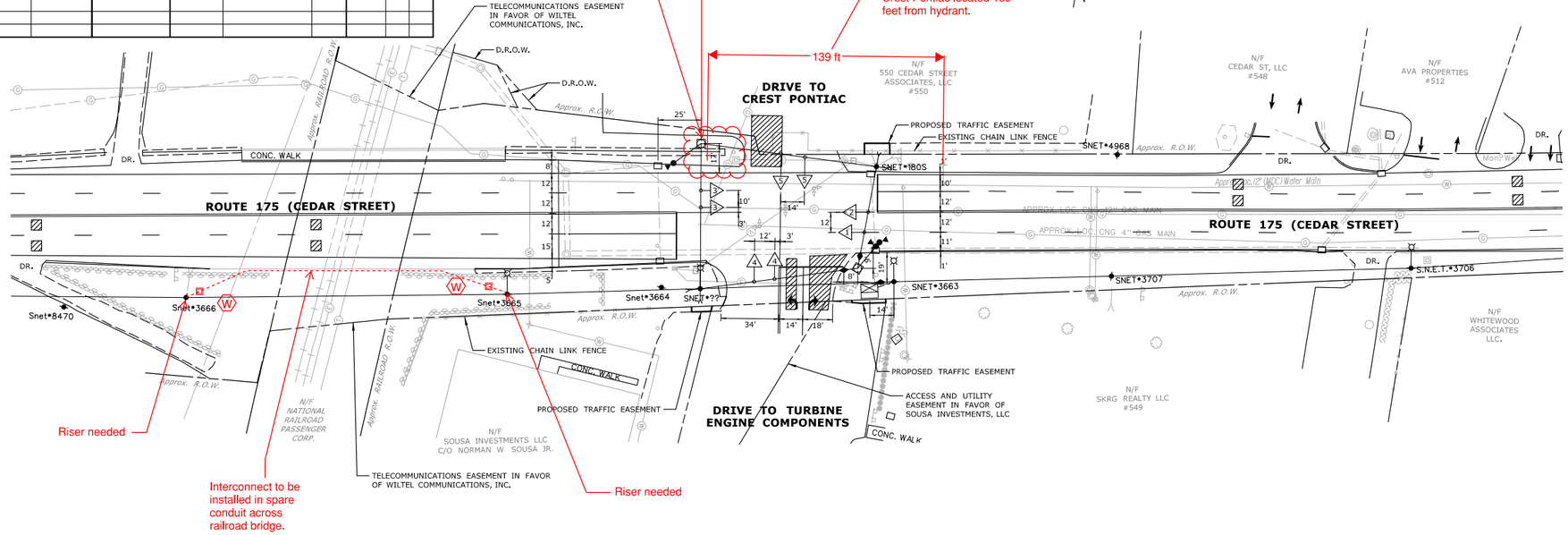


ALL SIGNAL INDICATIONS TO HAVE LED LAMPS.

ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.

SIGNAL PHASING DIAGRAM





	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	__/__/__	__/__/__

REV # INTERSECTION #093-210

ENERGY BY DEVELOPER	METER # N/A
MAINT LEVEL	SERVICE POLE SNET #3664
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

LEGEND:
R, Y, G RED, YEL, GRN
RED ARROW
YELLOW ARROW
GREEN ARROW
W WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE

PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 175 (CEDAR ST.) AT DRIVES TO TURBINE ENGINE COMPONENTS & CREST PONTIAC

TOWN: NEWINGTON

PROJECT NO. 0093-0218

DRAWING NO. TCS-08

SHEET NO.

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_08_INT 093-210.dgn

SCALE 1" = 40'

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2 PRE-EMPT 1	PHASE 3	PHASE 4	PHASE 5 PRE-EMPT 2	PHASE 6	PHASE 7	PHASE 8
	2 1	2 1 3 4	3 4		6 5			

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	←/ G	↔/ G	G	G	Y	R	R	R	R	R	R	R	R	R	R												
2	Y	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R												
3	Y	R	R	R	G	G	G	←/ G	Y	R	R	R	R	R	R	R												
4	Y	R	R	R	G	G	G	G	Y	R	R	R	R	R	R	R												
5	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R												
6	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R												
P	OFF	←				DW				→	WØ	←			DW	→												

← YIELD POINT

INTERVALS	PHASE 1	PHASE 2 PRE-EMPT 1	PHASE 3	PHASE 4	PHASE 5 PRE-EMPT 2	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15	5		7			
WALK				7 (1)				
PED CLR				10 (2)				
VEH EXT		2.5			1.5			
MAX 1	5	21	5		10			
MAX 2	5	30	5		17			
YELLOW	3	4.3	4.3	4	3			
RED	1	1.7	1.7	0	2.1			
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	MAX RECALL	MIN RECALL	NON-LOCK	NON-LOCK	NON-LOCK	OFF	OFF	OFF
INIT START		THIS PHASE						

ACCESSIBLE PEDESTRIAN SIGNAL

COUNTDOWN PEDESTRIAN SIGNAL

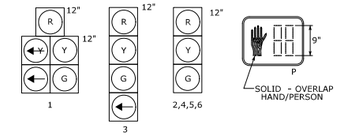
TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
(1) PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.
(2) COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CHANGE INTERVAL.
MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 4 PEDESTRIAN CHANGE INTERVAL.
PHASE 2 ON TO OMIT PHASE 1, PHASE 4, AND PHASE 5.
PHASE 4 CHECK TO CALL PHASE 3.
PHASE 5 CHECK TO CALL PHASE 3.
ARTERY PHASE DETECTORS TO BE NON-ACTUATING DURING COORDINATION.
SIGNAL MAY DOUBLE CYCLE IF PHASE 4 IS ACTUATED.
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.

OFFICE RECORD

REV # TIR # SM # SIGNAL REVISED:
REVISED TO REFLECT SIGNAL EQUIPMENT UNDER PROJECT NO. 0171-0393 AND INSTALLED EMERGENCY VEHICLE PRE-EMPTION.

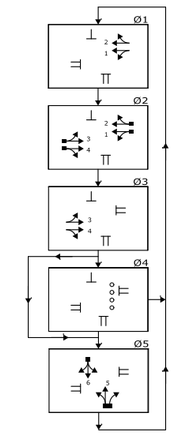
SIGNAL FACES



ALL SIGNAL INDICATIONS HAVE LED LAMPS.

ALL VEHICULAR SIGNAL FACES HAVE BACKPLATES WITH RETRO-REFLECTIVE YELLOW BORDER.

SIGNAL PHASING DIAGRAM



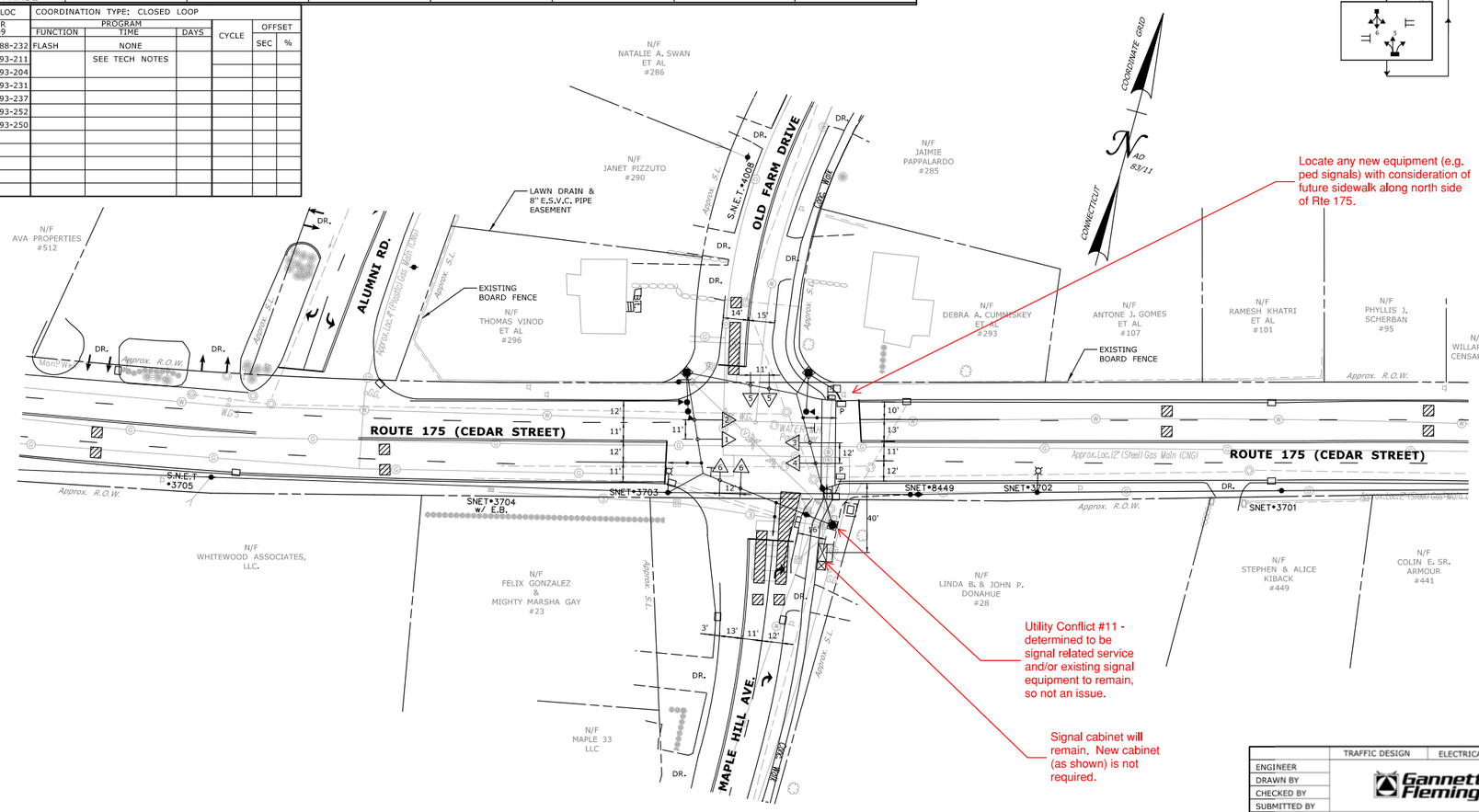
DETECTORS

IDENT	SIZE (WXL)	TYPE	MODE

SYSTEM LOC MASTER 093-209	COORDINATION TYPE: CLOSED LOOP PROGRAM FUNCTION	TIME	DAYS	CYCLE	OFFSET SEC	%
088-280 088-232	FLASH	NONE				
093-210 093-211		SEE TECH NOTES				
093-254 093-204						
093-212 093-231						
093-213 093-237						
093-259 093-252						
093-251 093-250						

PRE-EMPTION SETTINGS

	PRE-EMPT 1	PRE-EMPT 2
PRIORITY	NO	NO
DET. LOCK	YES	YES
DELAY	0	0
ALT. MIN. GRN	5	5
ALT. YELLOW	PARENT	PARENT
ALT. RED	PARENT	PARENT
ALT. PED. CLR.	10	10
HOLD GREEN	15	15
HOLD YELLOW	4.3	3
HOLD RED	1.7	2.1
HOLD PHASE	2	5
EXIT PHASE	3	1
EXIT CALL	NONE	NONE



	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	_/_/_	_/_/_

REV # INTERSECTION #093-211

ENERGY BY TOWN | METER # N/A
MAINT LEVEL 1 | SERVICE POLE SNET #3703
UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

LEGEND:
R, Y, G RED, YEL, GRN
R RED ARROW
Y YELLOW ARROW
G GREEN ARROW
WØ WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE

PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 175 (CEDAR ST.) AT MAPLE HILL AVE. & OLD FARM DR.

TOWN: NEWINGTON

PROJECT NO. 0093-0218

DRAWING NO. TCS-09

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

SHEET NO.

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_09_INT 093-211.dgn

SCALE 1" = 40'

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
	2, 1	2, 1, 3, 3		4				

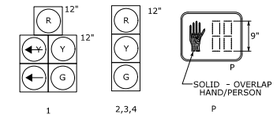
FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	←/ G	↓Y / G	G	G	Y	R				R	R	R															
2	Y	G	G	G	G	Y	R				R	R	R															
3	Y	R	R	R	G	Y	R				R	R	R															
4	R	R	R	R	R	R	R				G	Y	R															
5	R	R	R	R	R	R	R				G	Y	R															
P	OFF	← DW →			WØ	← DW →					WØ	← DW →																

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		7				
WALK		7		7				
PED CLR		15		15				
VEH EXT		2.5		1.5				
MAX 1	7	29		9				
MAX 2	11	39		15				
YELLOW	3	4		4				
RED	0	2		2				
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	MAX RECALL	MIN RECALL	OFF	NON-LOCK	OFF	OFF	OFF	OFF
INIT START		THIS PHASE						

TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY

OFFICE RECORD
REV # TIR # SM # SIGNAL REVISED:
REVISED TIMINGS ETC...

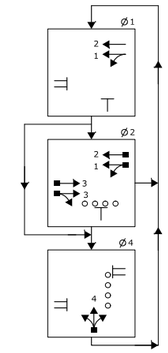
SIGNAL FACES



ALL SIGNAL INDICATIONS TO HAVE LED LAMPS.

ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.

SIGNAL PHASING DIAGRAM

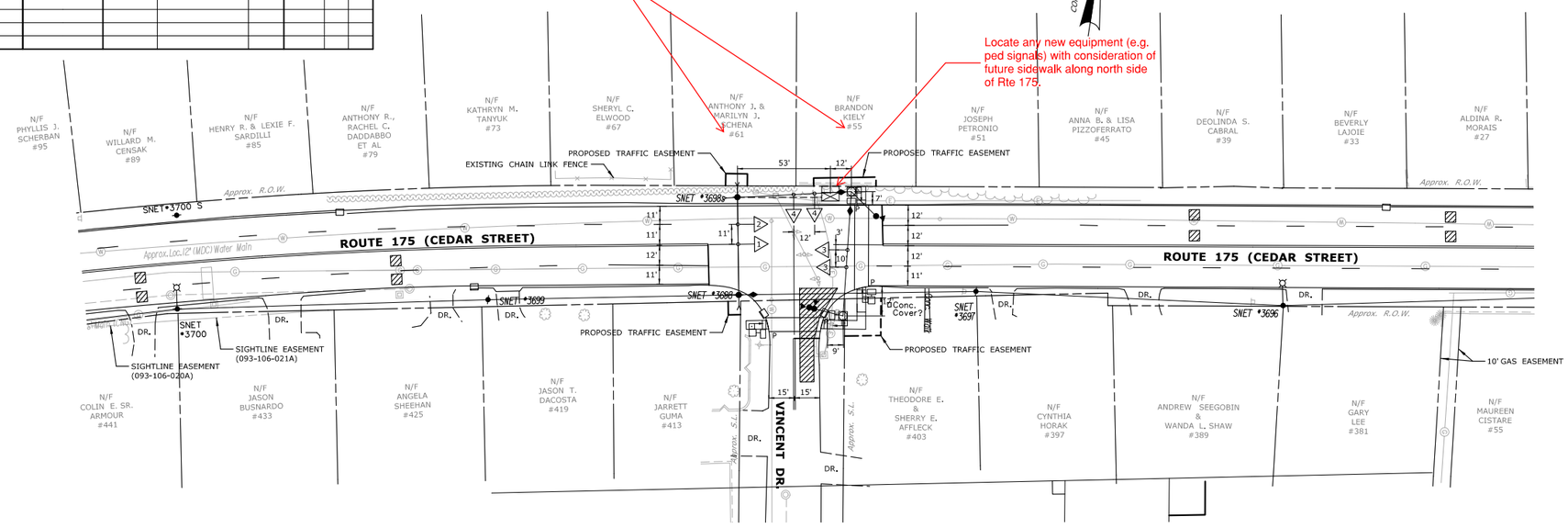


DETECTORS			
IDENT	SIZE (WXL)	TYPE	MODE

SYSTEM LOC	
MASTER 093-209	
088-280	088-232
093-210	093-211
093-254	093-204
093-212	093-231
093-213	093-237
093-259	093-252
093-251	093-250

COORDINATION TYPE: CLOSED LOOP

PROGRAM FUNCTION	PROGRAM TIME	PROGRAM DAYS	CYCLE	OFFSET SEC	OFFSET %
FLASH	NONE				
	SEE TECH NOTES				



	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	__/__/__	__/__/__

REV # INTERSECTION #093-254

ENERGY BY TOWN	METER # N/A
MAINT LEVEL	SERVICE POLE SNET #3698
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

LEGEND:
R, Y, G RED, YEL, GRN
R RED ARROW
Y YELLOW ARROW
G GREEN ARROW
WØ WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE

PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 175
(CEDAR ST.) AT
VINCENT DR.

TOWN: NEWINGTON

PROJECT NO. 0093-0218

DRAWING NO. TCS-10

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

SHEET NO.

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_10_INT 093-254.dgn

SCALE 1" = 40'

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	

FACE #		FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
	1	R	←/R	↖/R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R
	2	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	3	R	R	R	R	R	R	R	←/R	↖/R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R
	4	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	5	R	R	R	R	G	Y	R	R	R	R	R	R	R	←/R	↖/R	R	R	R	R	R	R	R	R	R	R	R	R	R
	6	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R
	7	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	←/R	↖/R	R	R	R	R	R	R	R
	8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R
	P	OFF	◄										DW													►	WØ	◄ DW	►

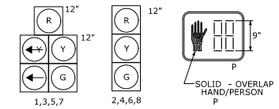
INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8		
MIN GRN	5	15	5	9	7	15	5	9		
WALK									7 ②	ACCESSIBLE PEDESTRIAN SIGNAL
PED CLR									20 ①	
VEH EXT	1.5	3.0	1.5	2.0	2.5	3.0	1.5	2.0		
MAX 1	15	34	10	35	15	37	9	30		
MAX 2	10	50	25	29	15	52	10	43		
YELLOW	3.0	4.5	3.0	3.0	3.0	4.5	3.0	3.0	4.0	
RED	1.0	1.5	1.0	2.2	1.0	1.5	1.0	2.2	0	
ADD INIT										COUNTDOWN PEDESTRIAN SIGNAL
MAX INIT										
TBR										
TTR										
MIN GAP										
MODE	NON-LOCK	MIN RECALL	NON LOCK	NON-LOCK	NON-LOCK	MIN RECALL	NON-LOCK	NON-LOCK	NON-LOCK	
INIT START		THIS PHASE				THIS PHASE				

DETECTORS				SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP					
IDENT	SIZE (WXL)	TYPE	MODE	MASTER 093-209	PROGRAM FUNCTION	PROGRAM TIME	PROGRAM DAYS	CYCLE	OFFSET SEC	OFFSET %
				088-280 088-232	FLASH	NONE				
				093-210 093-211		SEE TECH NOTES				
				093-254 093-204						
				093-212 093-231						
				093-213 093-237						
				093-259 093-252						
				093-251 093-250						

TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY
① COUNTDOWN ONLY DURING FLASHING
② PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL

OFFICE RECORD
REV # TIR # SM # SIGNAL REVISED:
REVISED TIMINGS ETC...

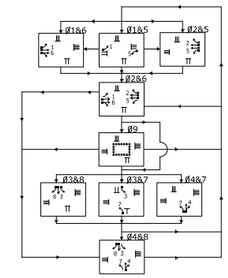
SIGNAL FACES



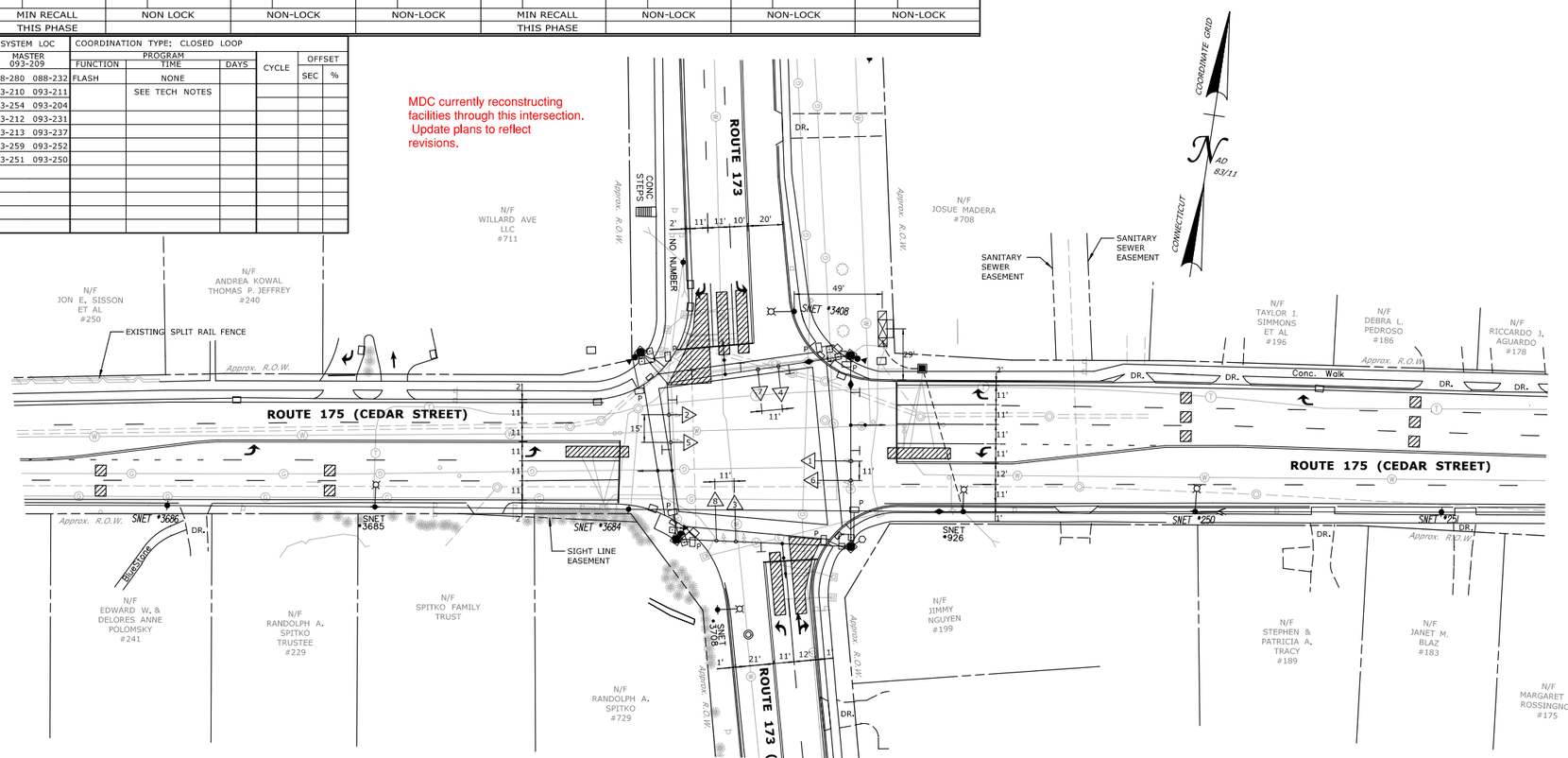
ALL SIGNAL INDICATIONS HAVE LED LAMPS.

ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.

SIGNAL PHASING DIAGRAM



MDC currently reconstructing facilities through this intersection. Update plans to reflect revisions.



	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	__/__/__	__/__/__

REV # INTERSECTION #093-204

ENERGY BY STATE	METER # N/A
MAINT LEVEL 1	SERVICE POLE SNET #3408
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

LEGEND:
R, Y, G RED, YEL, GRN
R RED ARROW
Y YELLOW ARROW
G GREEN ARROW
W/Ø WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING
PTZ CAMERA

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE

PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 175
(CEDAR ST.) AT
ROUTE 173
(WILLARD AVE.)

TOWN: NEWINGTON

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 0093-0218
DRAWING NO. TCS-11
SHEET NO.

DATE PLOTTED : 11/14/2018 S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-A TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_11_INT 093-204.dgn

SCALE 1" = 40'

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1 PRE-EMPT 1	PHASE 2 PRE-EMPT 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	
NONE	1, 2	1, 2, 3, 3		4, 4					

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	← / G	↔ / G	G	G	Y	R	R	R	R	R	R	R															
2	Y	G	G	G	G	Y	R	R	R	R	R	R	R															
3	Y	R	R	R	G	Y	R	R	R	R	R	R	R															
4	R	R	R	R	R	R	R	R	R	R	G	Y	R															
P	OFF	← DW →			← DW →			WØ	← DW →		← DW →																	

INTERVALS																												
MIN GRN	5			15			7 ②	ACCESSIBLE PEDESTRIAN SIGNAL		5																	
WALK							19 ①																					
PED CLR																												
VEH EXT	1.5			3.0						1.5																		
MAX 1	9			38						15																		
MAX 2	9			42						15																		
YELLOW		3.0			4.5			4.0			3.0																	
RED			1.5			1.0			0			1.5																
ADD INIT								COUNTDOWN PEDESTRIAN SIGNAL																				
MAX INIT																												
TBR																												
TTR																												
MIN GAP																												
MODE	NON-LOCK			MIN RECALL			NON-LOCK			NON-LOCK			OFF			OFF			OFF			OFF			OFF		
INIT START				THIS PHASE																								

DETECTORS

IDENT	SIZE (WXL)	TYPE	MODE

SYSTEM LOC MASTER 093-209	COORDINATION TYPE: CLOSED LOOP PROGRAM FUNCTION	TIME	DAYS	CYCLE	OFFSET SEC	OFFSET %
088-280 088-232	FLASH	NONE				
093-210 093-211		SEE TECH NOTES				
093-254 093-204						
093-212 093-231						
093-213 093-237						
093-259 093-252						
093-251 093-250						

PRE-EMPTION SETTINGS

	PRE-EMPT 1	PRE-EMPT 2
PRIORITY	NO	NO
DET. LOCK	YES	YES
DELAY	0	0
ALT. MIN. GRN	5	5
ALT. YELLOW	4.5	4.5
ALT. RED	1.5	1.5
ALT. PED. CLR.	19	19
HOLD GREEN	15	15
HOLD YELLOW	3.0	4.5
HOLD RED	1.5	1.0
HOLD PHASE	1	2
EXIT PHASE	2	4
EXIT CALL	NONE	NONE

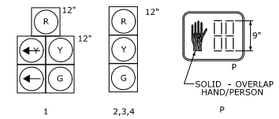
TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
① COUNTDOWN ONLY DURING PEDESTRIAN CHANGE INTERVAL
② PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.

OFFICE RECORD

REV # TIR # SM # SIGNAL REVISED:
REVISED TIMINGS ETC...

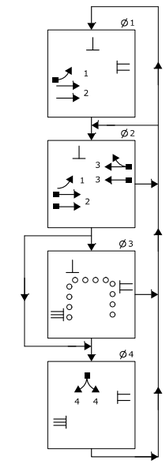
SIGNAL FACES

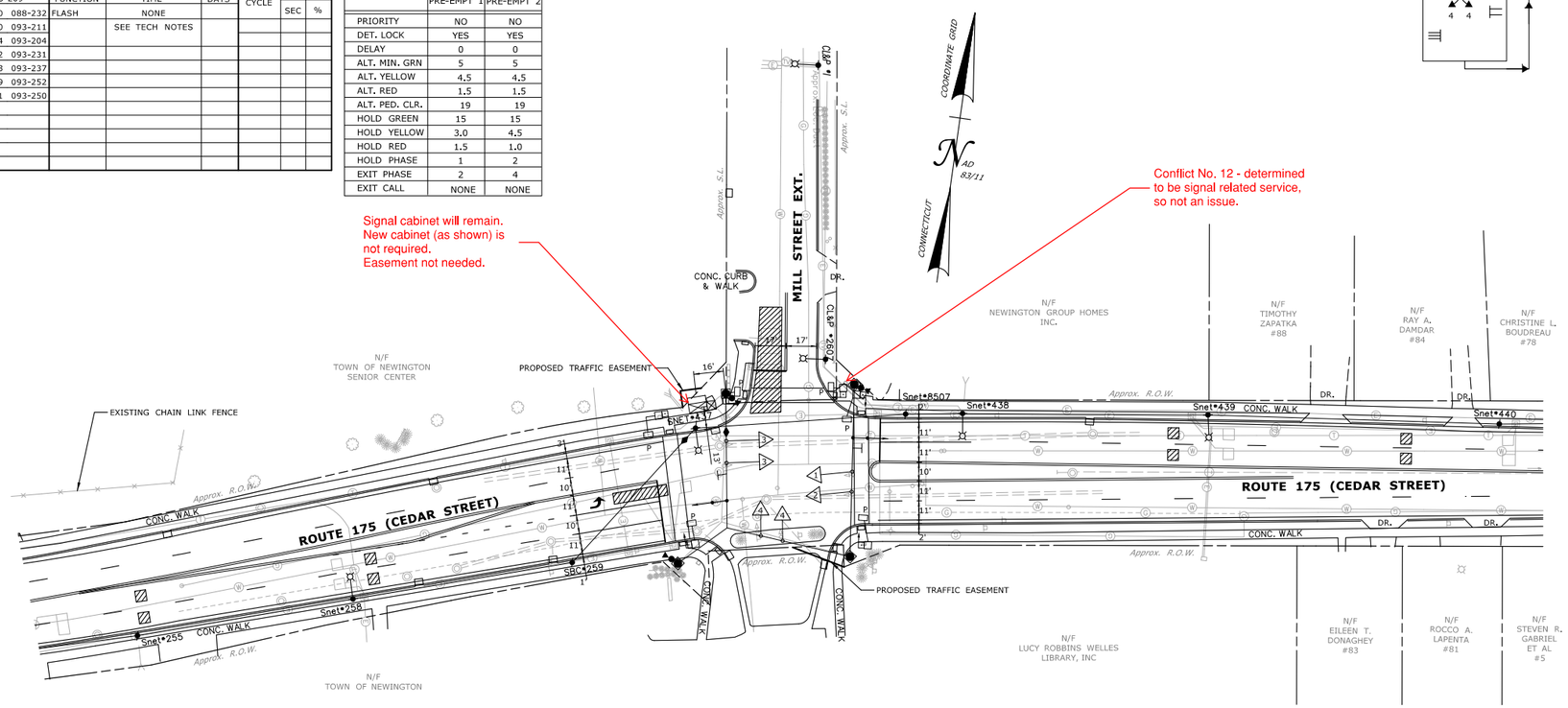


ALL SIGNAL INDICATIONS HAVE LED LAMPS.

ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.

SIGNAL PHASING DIAGRAM





	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	J.J..	J.J..

REV # INTERSECTION #093-212

ENERGY BY TOWN	METER # N/A
MAINT LEVEL 5	SERVICE POLE SNET #437
	UNMETERED SERVICE

LEGEND:
R, Y, G RED, YEL, GRN
R RED ARROW
Y YELLOW ARROW
GREEN ARROW
WØ WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE

PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 175
(CEDAR ST.) AT
MILL STREET EXTENSION

TOWN: NEWINGTON

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 0093-0218
DRAWING NO. TCS-12
SHEET NO.

NO.	DATE	REVISION DESCRIPTION

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_12_INT 093-212.dgn

SCALE 1" = 40'

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1 PRE-EMPT 1	PHASE 2 PRE-EMPT 4	PHASE 3 PRE-EMPT 3	PHASE 4 PRE-EMPT 2	PHASE 5 PRE-EMPT 4	PHASE 6 PRE-EMPT 1	PHASE 7 PRE-EMPT 2	PHASE 8 PRE-EMPT 3	PHASE 9
NONE	1	2 2	3	4 4 7	5	6 6	7	3 8 8	

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	~~R~~	←	~~Y~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~
2	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
3	R	R	R	R	R	R	R	←/ R	~~Y~~ / R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R
4	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
5	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	←	~~Y~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~
6	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R
7	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	←/ R	~~Y~~ / R	R	R	R	R	R	R	R
8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R
P	OFF	DW			DW			DW			DW			DW			DW			DW			DW			WØ	DW	

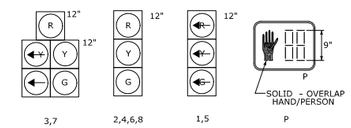
INTERVALS																											
MIN GRN	5			15			5			9			5			15			5			9					
WALK																									7		
PED CLR																									20		
VEH EXT	2.0			2.5			2.0			2.0			2.0			2.5			2.0			2.0					
MAX 1	15			25			15			25			15			25			15			25					
MAX 2	20			30			15			30			20			30			15			30					
YELLOW		3.2			3.9			3.2			3.9			3.2			3.9			3.2			3.9			4.0	
RED			1.0			2.4			0.5			1.0			1.0			2.4			0.5			1.0			0
ADD INIT																											
MAX INIT																											
TBR																											
TTR																											
MIN GAP																											
MODE	NON-LOCK			MIN RECALL			NON-LOCK			NON-LOCK			NON-LOCK			MIN RECALL			NON-LOCK			NON-LOCK			NON-LOCK		
INIT START				THIS PHASE												THIS PHASE											

DETECTORS				SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP					
IDENT	SIZE (WXL)	TYPE	MODE	MASTER 093-209	PROGRAM FUNCTION	PROGRAM TIME	PROGRAM DAYS	CYCLE	OFFSET SEC	OFFSET %
				088-280 088-232	FLASH	NONE				
				093-210 093-211		SEE TECH NOTES				
				093-254 093-204						
				093-212 093-231						
				093-213 093-237						
				093-259 093-252						
				093-251 093-250						

TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY

OFFICE RECORD		
REV #	TIR #	SM # SIGNAL REVISED:
REVISED TIMINGS ETC...		

SIGNAL FACES

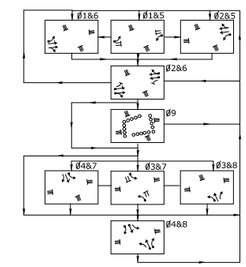


ALL SIGNAL INDICATIONS HAVE LED LAMPS.

ALL OVERHEAD SIGNAL FACES HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.

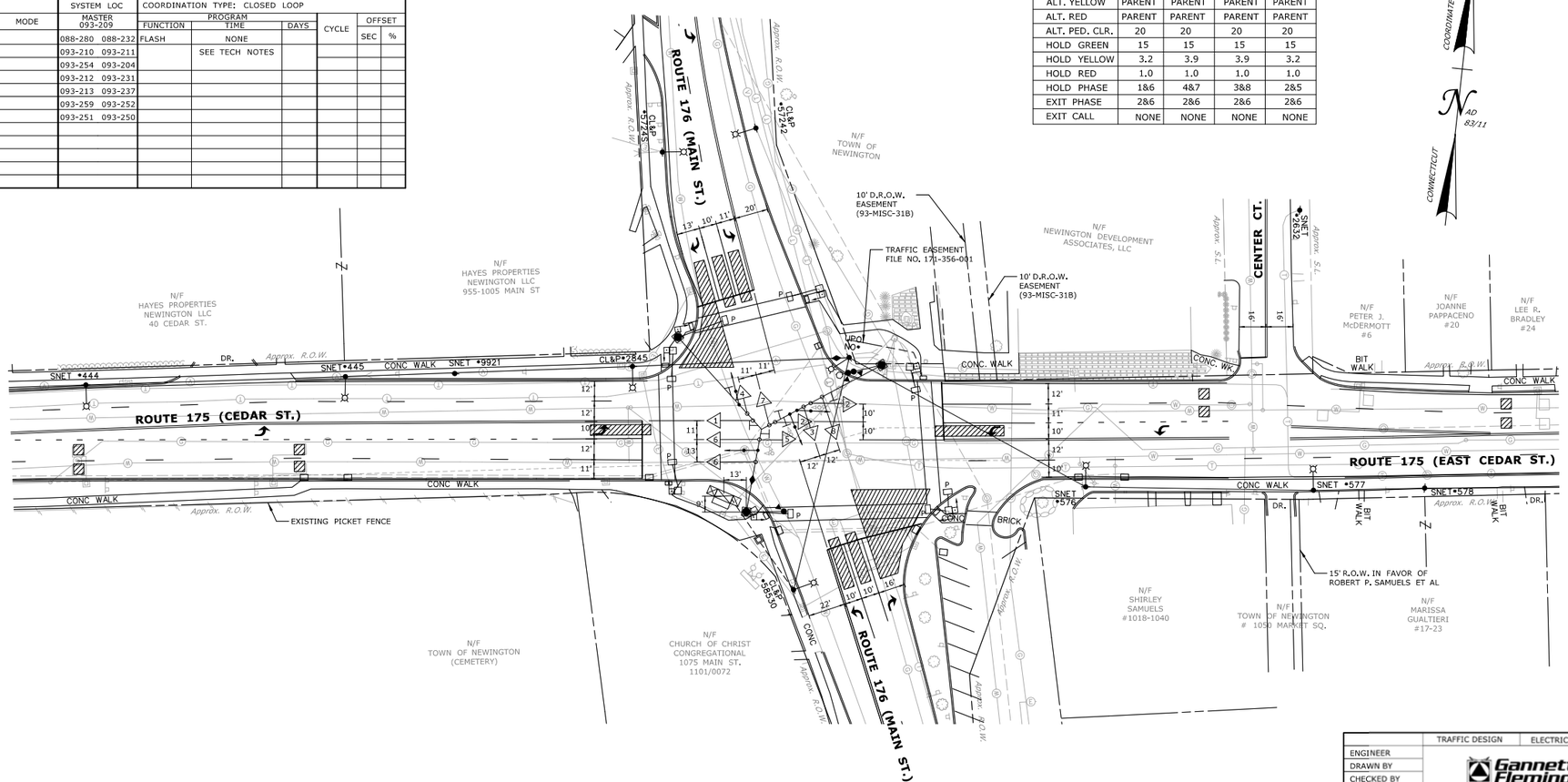
FACES 2,3,5 AND 8 HAVE TUNNEL VISORS.

SIGNAL PHASING DIAGRAM



PRE-EMPTION SETTINGS

	PRE-EMPT 1	PRE-EMPT 2	PRE-EMPT 3	PRE-EMPT 4
PRIORITY	NO	NO	NO	NO
DET. LOCK	YES	YES	YES	YES
DELAY	0	0	0	0
ALT. MIN. GRN	5	5	5	5
ALT. YELLOW	PARENT	PARENT	PARENT	PARENT
ALT. RED	PARENT	PARENT	PARENT	PARENT
ALT. PED. CLR.	20	20	20	20
HOLD GREEN	15	15	15	15
HOLD YELLOW	3.2	3.9	3.9	3.2
HOLD RED	1.0	1.0	1.0	1.0
HOLD PHASE	1&6	4&7	3&8	2&5
EXIT PHASE	2&6	2&6	2&6	2&6
EXIT CALL	NONE	NONE	NONE	NONE



	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	J.J.	J.J.

REV # INTERSECTION #093-231

ENERGY BY STATE	METER # N/A
MAINT LEVEL 1	SERVICE POLE CL&P 58530
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

LEGEND:
R, Y, G RED, YEL, GRN
R RED ARROW
Y YELLOW ARROW
G GREEN ARROW
WØ WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING
PTZ CAMERA
PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON
TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE
PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR
VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 175
(CEDAR ST. & EAST CEDAR ST.) AT
ROUTE 176
(MAIN ST.)

TOWN: **NEWINGTON**

PROJECT NO. 0093-0218

DRAWING NO. TCS-13

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

SHEET NO.

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_13_INT 093-231.dgn

SCALE 1" = 40'

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
NONE								

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	←/ G	↖/ G	G	G	G	G	R	R	R	R	R	R															
2	Y	G	G	G	G	G	G	R	R	R	R	R	R															
3	Y	R	R	R	G	G	G	R	R	R	R	R	R															
4	R	R	R	R	R	R	R	R	R	R	G	Y	R															
5	R	R /→	R / ↗	R	R	R	R	R	R	R	G	Y	R															
6	R	R	R	R	R	R	R	R	R	R	G	Y	R															
7	R	R	R	R	R	R	R	R	R	R	G	Y	R															
P	OFF	← DW →			← DW →			WØ	← DW →		← DW →																	

← YIELD POINT

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	4	4		6				
WALK			7 (2)					
PED CLR			13 (3)					
VEH EXT	2	2		2				
MAX 1	8	18		20				
MAX 2	8	12		11				
YELLOW	3.0	4.0	4.0	3.0				
RED	1.0	2.0	0	2.0				
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON-LOCK	MIN RECALL	NON-LOCK	NON-LOCK	OFF	OFF	OFF	OFF
INIT START								

ACCESSIBLE PEDESTRIAN SIGNAL

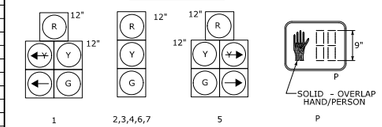
COUNTDOWN PEDESTRIAN SIGNAL

DETECTORS				SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP					
IDENT	SIZE (WXL)	TYPE	MODE	MASTER 093-209	PROGRAM FUNCTION	PROGRAM TIME	PROGRAM DAYS	CYCLE	OFFSET SEC	OFFSET %
				088-280 088-232	FLASH	NONE				
				093-210 093-211		SEE TECH NOTES				
				093-254 093-204						
				093-212 093-231						
				093-213 093-237						
				093-259 093-252						
				093-251 093-250						

TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY

OFFICE RECORD		
REV #	TIR #	SM #
REVISED TIMINGS ETC...		SIGNAL REVISED:

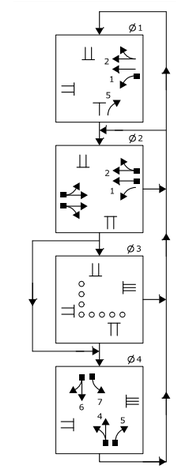
SIGNAL FACES

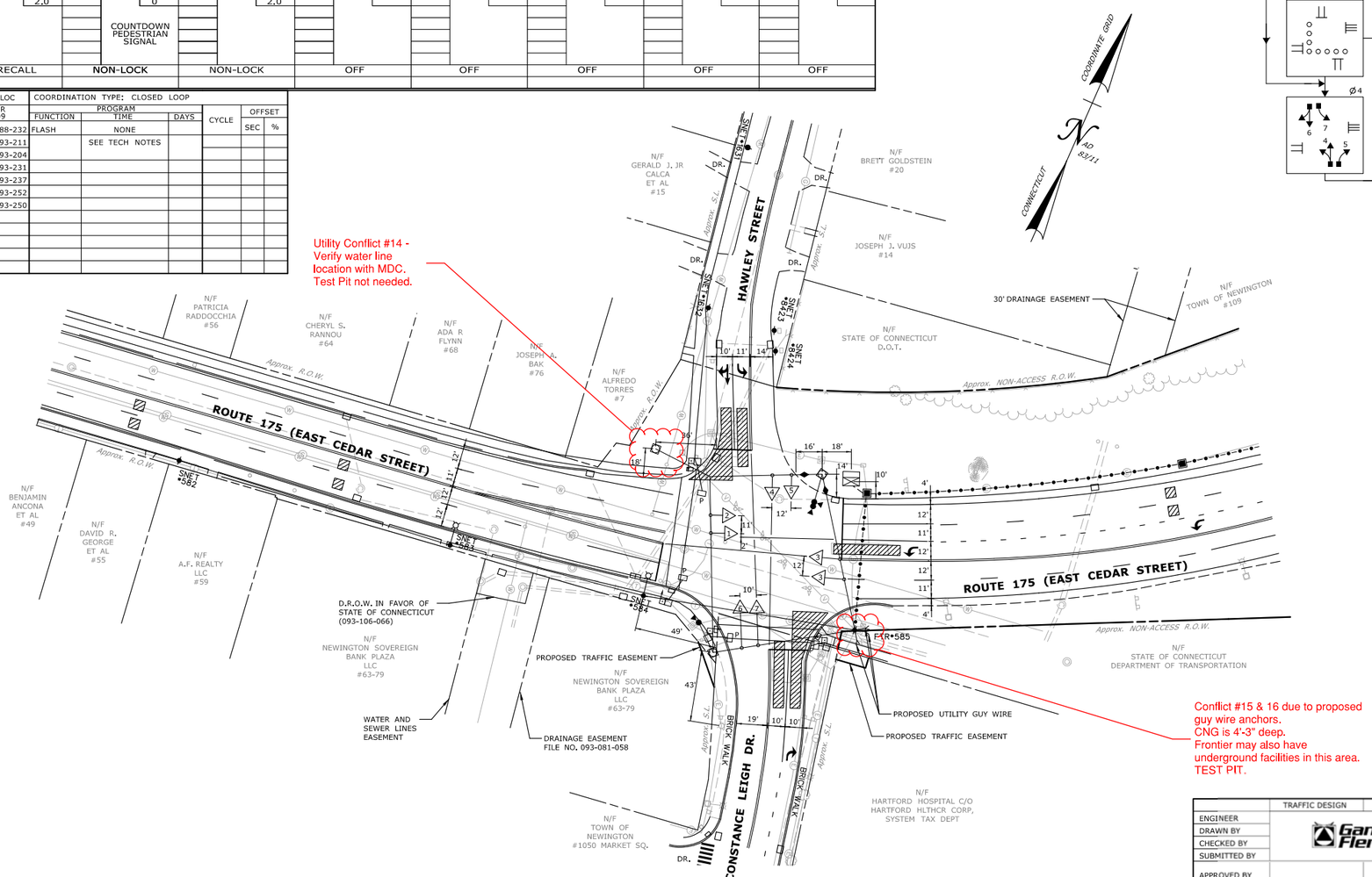


ALL SIGNAL INDICATIONS TO HAVE LED LAMPS.

ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.

SIGNAL PHASING DIAGRAM





	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	J.J.	J.J.

REV # INTERSECTION #093-213

ENERGY BY STATE	METER # N/A
MAINT LEVEL 2	SERVICE POLE SNET #585
	UNMETERED SERVICE

LEGEND:
R, Y, G RED, YEL, GRN
R RED ARROW
Y YELLOW ARROW
G GREEN ARROW
WØ WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE

PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 175
(CEDAR ST.) AT
HAWLEY ST. &
CONSTANCE LEIGH DR.

TOWN: NEWINGTON

PROJECT NO. 0093-0218

DRAWING NO. TCS-14

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

SHEET NO.

NO.	DATE	REVISION DESCRIPTION

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_14_INT 093-213.dgn

SCALE 1" = 40'

Notes from 12/18/18 Utility Coordination Meeting

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
NONE	2 2 1	2 2 1 3 3	2 2 1 3 3	4 4				

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	←/ G	↖/ G	G	G	G	G	G	Y	R	R	R	R															
2	Y	G	G	G	G	G	G	G	Y	R	R	R	R															
3	Y	R	R	R	G	G	G	G	Y	R	R	R	R															
4	R	R	R	R	R	R	R	R	R	R	G	Y	R															
FLASH. SIGN.	← OFF →				←		→	← ON →			← ON →																	
					← YIELD PT.																							

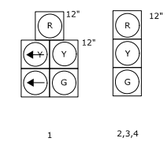
INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	4	15	11	9				
WALK								
PED CLR								
VEH EXT	2	2	11	2				
MAX 1	12	15	11	25				
MAX 2	8	15		19				
YELLOW	3	4	4	3				
RED	1	0	2	2				
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON-LOCK	MIN RECALL	NON-LOCK	NON-LOCK	OFF	OFF	OFF	OFF
INIT START		THIS PHASE						

DETECTORS				SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP					
IDENT	SIZE (WXL)	TYPE	MODE	MASTER 093-209	PROGRAM FUNCTION	PROGRAM TIME	PROGRAM DAYS	CYCLE	OFFSET SEC	OFFSET %
				088-280 088-232	FLASH	NONE				
				093-210 093-211		SEE TECH NOTES				
				093-254 093-204						
				093-212 093-231						
				093-213 093-237						
				093-259 093-252						
				093-251 093-250						

TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY
PHASE 2 ON TO OMIT CALL TO PHASE 1.
PHASE 3 TO ALWAYS FOLLOW PHASE 2.

OFFICE RECORD			
REV #	TIR #	SM #	SIGNAL REVISED:
REVISED TIMINGS ETC...			

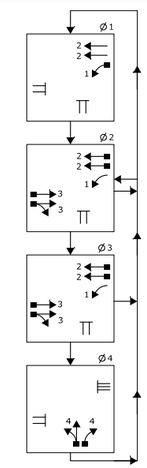
SIGNAL FACES

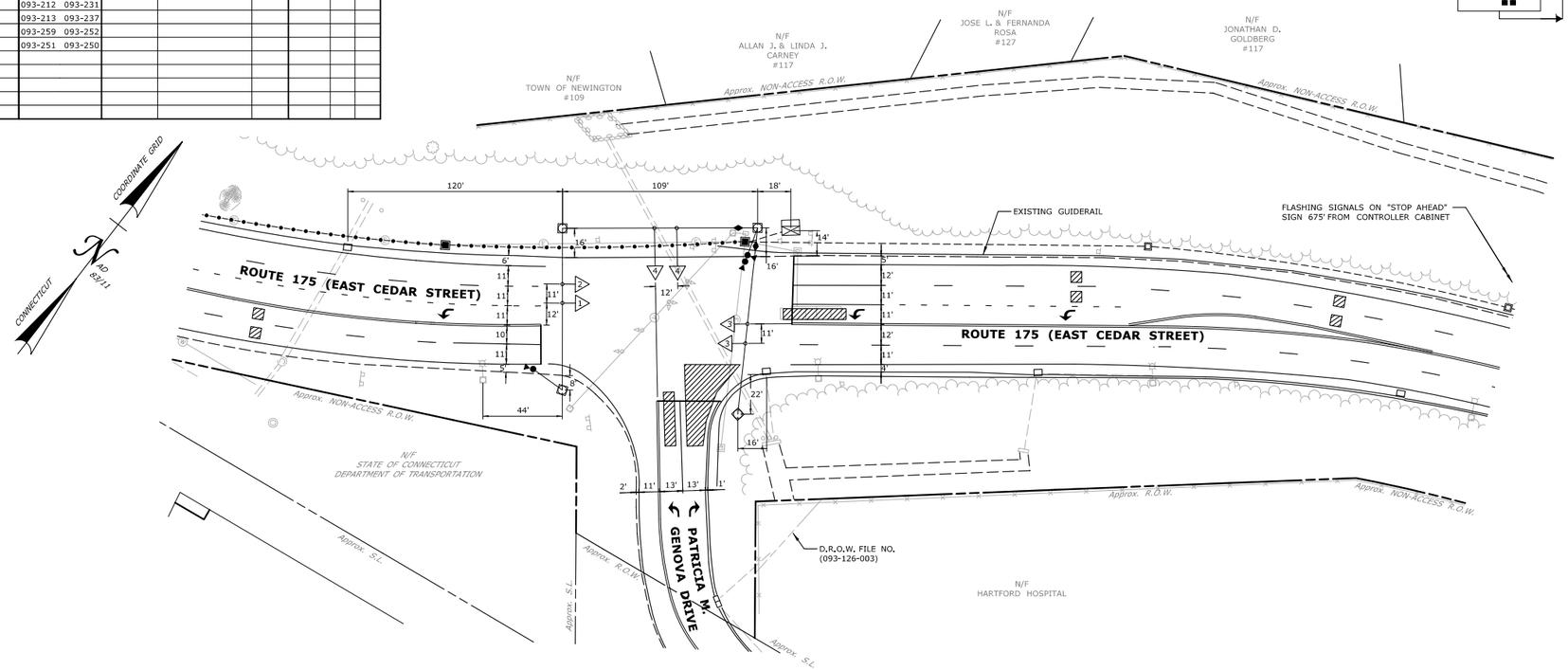


ALL SIGNAL INDICATIONS TO HAVE LED LAMPS.

ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH RETROREFLECTIVE YELLOW BORDER.

SIGNAL PHASING DIAGRAM





	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	Gannett Fleming	
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE	_/_/_	_/_/_

REV # INTERSECTION #093-237

ENERGY BY STATE	METER # N/A
MAINT LEVEL	SERVICE POLE SNET #585
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

LEGEND:

- R, Y, G RED, YEL, GRN
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- W/Ø WALK/ PED. CLR
- D.W. DON'T WALK
- FL. FLASHING
- PROPOSED WOOD SPAN POLE
- EXISTING WOOD SPAN POLE
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- PEDESTAL MOUNTING
- PEDESTRIAN PUSH BUTTON & SIGN
- DIRECTIONAL ARW. FOR PUSH BUTTON
- TRAFFIC SIGNAL FACE
- PEDESTRIAN SIGNAL FACE
- DET. LEADS IN SAW CUT
- PROPOSED RMC (RIGID METAL CONDUIT)
- EXISTING RMC (RIGID METAL CONDUIT)
- AUXILIARY TERMINATION CABINET
- AUXILIARY EQUIPMENT CABINET
- VIDEO DETECTION ZONE
- PROPOSED CONTROLLER
- EXISTING CONTROLLER
- LOOP DETECTOR
- SD SYSTEM DETECTOR
- MAGNETIC DETECTOR
- OPTICAL DETECTOR
- VIDEO DETECTOR
- AUDIO DETECTOR
- VC VIDEO CAMERA CABLE
- CABLE CLOSURE
- WIRELESS SENSOR
- WIRELESS RECEIVER
- WIRELESS TRANSMITTER
- GUY WIRE
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 175
(CEDAR ST.) AT
PATRICIA M GENOVA DR.

TOWN: **NEWINGTON**

PROJECT NO. 0093-0218

DRAWING NO. TCS-15

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

SHEET NO.

DATE PLOTTED : 11/14/2018S:\61874-CTDOT ITS Task Order Svces\04_Wrkng-All TOs\04_Task 093-218\05_Working\a. CADD\TR_MSH_TCS_0093_0218_15_INT 093-237.dgn

SCALE 1" = 40'