07 - TRAFFIC
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
INX-05	INDEX OF DRAWINGS - TRAFFIC	FIO-01	FOR INFORMATION ONLY - BANK STREET AT WEST LIBERTY STREET
MPT-01	MAINTENANCE & PROTECTION OF TRAFFIC - I-84 EB - SHOULDER CLOSURE	FIO-02	FOR INFORMATION ONLY - MEADOW STREET AT BANK STREET AND PLAZA DRIVE
MPT-02	MAINTENANCE & PROTECTION OF TRAFFIC - I-84 EB - LANE CLOSURE	FIO-03	FOR INFORMATION ONLY - MEADOW STREET AT I-84 EASTBOUND ON RAMPS
MPT-03 & MPT-04	MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 1	FIO-04	FOR INFORMATION ONLY - MEADOW STREET AT FIELD STREET
MPT-05 & MPT-06	MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 2	FIO-05	FOR INFORMATION ONLY - S.R. 847 (GRAND ST/MEADOW ST) AT MEADOW ST, FREIGHT ST, AND PRIVATE DRIVE
MPT-07 & MPT-08	MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 3	FIO-06	FOR INFORMATION ONLY - S.R. 847 (SOUTH MAIN STREET) AT WEST LIBERTY STREET AND EAST LIBERTY STREET
MPT-09 & MPT-10	MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 4	FIO-07	FOR INFORMATION ONLY - S.R. 847 (SOUTH MAIN ST) AT SOUTH ELM ST, EAST CLAY ST, AND WEST CLAY ST
MPT-11 & MPT-12	MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 5	FIO-08	FOR INFORMATION ONLY - S.R. 847 (SOUTH MAIN ST) AT I-84 EB EXIT 22 OFF-RAMP, MARKET SQ, AND McMAHON ST
MPT-13 & MPT-14	MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 6		
MPT-15	MAINTENANCE & PROTECTION OF TRAFFIC - WEST LIBERTY STREET		
DTR-01	DETOUR PLAN - MEADOW STREET CLOSURE		
DTR-02	DETOUR PLAN - I-84 EB ON-RAMP CLOSURE		
DTR-03	DETOUR PLAN - I-84 WB ON-RAMP CLOSURE		
DTR-04	DETOUR PLAN - FIELD STREET EB CLOSURE		
DTR-05	DETOUR PLAN - FIELD STREET EB CLOSURE - TRUCK DETOUR		
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TCS-02	TRAFFIC CONTROL SIGNAL PLAN - MEADOW STREET AT BANK STREET AND PLAZA DRIVE		
TCS-03	TRAFFIC CONTROL SIGNAL PLAN - MEADOW STREET AT I-84 EASTBOUND ON-RAMPS		
TCS-04	TRAFFIC CONTROL SIGNAL PLAN - MEADOW STREET AT FIELD STREET		
TCS-05	TRAFFIC CONTROL SIGNAL PLAN - S.R. 847 (GRAND ST/MEADOW STREET) AT MEADOW STREET, FREIGHT STREET, AND PRIVATE DRIVE		
TCS-06	TRAFFIC CONTROL SIGNAL PLAN - S.R. 847 (SOUTH MAIN STREET) AT WEST LIBERTY STREET AND EAST LIBERTY STREET		
TCS-07	TRAFFIC CONTROL SIGNAL PLAN - S.R. 847 (SOUTH MAIN STREET) AT SOUTH ELM STREET, EAST CLAY STREET, AND WEST CLAY STREET		
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WWS-01	WRONG WAY SIGNS WITH FLASHERS - S MAIN STREET AT I-84 EB EXIT 22 OFF-RAMP, MARKET SQUARE, McMAHON STREET		
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TXCS-03	MAST ARM CROSS SECTIONS - MEADOW STREET AT I-84 EASTBOUND ON-RAMP		
TXCS-04	MAST ARM CROSS SECTIONS - MEADOW STREET AT FIELD STREET		
TXCS-05	MAST ARM CROSS SECTIONS - S.R. 847 (GRAND STREET/MEADOW STREET) AT MEADOW STREET, FREIGHT STREET, AND PRIVATE DRIVE		
TXCS-06	MAST ARM CROSS SECTIONS - S.R. 847 (SOUTH MAIN STREET) AT WEST LIBERTY STREET AND EAST LIBERTY STREET		
TXCS-07	MAST ARM CROSS SECTIONS - S.R. 847 (SOUTH MAIN STREET) AT SOUTH ELM STREET, EAST CLAY STREET, AND WEST CLAY STREET		
TXCS-08	MAST ARM CROSS SECTIONS - S.R. 847 (SOUTH MAIN STREET) AT I-84 EB EXIT 22 OFF-RAMP, MARKET SQUARE, AND McMAHON STREET		
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TR-GS_04	GUIDE SHEETS - STRUCTURES DATA		
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TR-GS_06	GUIDE SHEETS - DELINEATION, DELINEATORS AND ATTENUATOR REFLECTORS		
EAS-1	GUIDE SHEETS - EXTRUDED ALUMINUM SIGN PANEL CONNECTION DETAILS		
EAS-2	GUIDE SHEETS - EXTRUDED ALUMINUM SIGN PANEL MANUFACTURING DETAILS		

DESIGNED BY:
BL COMPANIES INC.

BL Companies
BL COMPANIES, INC.
100 CONSTITUTION PLAZA, 10TH FLOOR
HARTFORD, CT 06103

Michael A. Kurker
STATE OF CONNECTICUT
MICHAEL A. KURKER
34308
LICENSED PROFESSIONAL ENGINEER

Digitally signed by Michael Kurker
Date: 2025.08.25 09:22:25-04'00'

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK:
BL Companies
100 Constitution Plaza
10th Floor
Hartford, CT 06103
Michael A. Kurker
34308
LICENSED PROFESSIONAL ENGINEER

DESIGNER/DRAFTER: CHECKED BY:

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: INDEX OF DRAWINGS - TRAFFIC

PROJECT NO.: 0151-0340

DRAWING NO.: INX-07

SHEET NO.: 07.01

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PLOTTED DATE: 8/18/2025

GENERAL NOTES

SIGN PLACEMENT SPACING HAS BEEN MODIFIED ON "ON-RAMP FROM ROUTE 8 NB" TO ACCOMMODATE THE SHORTER RAMP LENGTH. SIGNS SHALL ALSO BE PLACED ALONG THE EXIT 19 ON-RAMP (FROM ROUTE 8 NB), EXIT 20 ON-RAMP (FROM ROUTE 8 SB), AND ON-RAMP FROM HIGHLAND AVENUE WITH SPACING SHOWN ON THE MAINLINE.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR SECTION 1.08 - PROSECUTION AND PROGRESS AND ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.

EXISTING SIGNS ARE TO BE TEMPORARILY RELOCATED AS NEEDED AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION SO THAT THEY ARE IN THE APPROPRIATE LOCATION AND VISIBLE TO MOTORISTS. ANY EXISTING SIGNS IN CONFLICT WITH TEMPORARY SIGNS SHALL BE COVERED, REMOVED, OR REVISED TO MEET FIELD CONDITIONS. THIS WORK SHALL BE PAID FOR UNDER ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.

ALL CONSTRUCTION SIGNS SHALL BE MOUNTED ON TEMPORARY BREAKAWAY POSTS, IF FEASIBLE.

CONTACT "CALL BEFORE YOU DIG" AT 811 PRIOR TO THE INSTALLATION OF ANY NEW TEMPORARY SIGN POSTS.

ANY EXISTING SIGNS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE STATE.

ALL CONSTRUCTION SIGNS TO BE INSTALLED PER CTDOT STANDARD SHEETS:
TR_1220_01 - SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS.
TR_1220_02 - CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES.

THE LOCATIONS OF THE CONSTRUCTION SIGNS AND OTHER TRAFFIC CONTROL DEVICES, INCLUDING, BUT NOT LIMITED TO, TRAFFIC DRUMS AND CONSTRUCTION BARRICADES, SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS. MINIMUM SIGN SPACING SHALL BE IN ACCORDANCE WITH ITEM NO. 0971001A - TRAFFIC CONTROL PLANS AND TYPICAL MATERIALS.

ALL CONSTRUCTION SIGNS SHALL BE PAID FOR UNDER ITEM NO. 1220027A - CONSTRUCTION SIGNS.

APPLICABLE SERIES 16-E SIGNS (80-1605), 16-H (80-1608), AND 16-M (80-6103) SIGNS TO BE LOCATED IN ADVANCE OF THE PROJECT SUCH THAT A MOTORIST CAN AVOID THE CONSTRUCTION SITE. SERIES 16-S SIGN (80-1619) SHALL BE INSTALLED IN ADVANCE OF ALL SIDEWALK CLOSURES.

BARRICADE WARNING LIGHTS - HIGH INTENSITY, ITEM NO. 0976002, SHALL BE MOUNTED ON ALL DIAMOND SHAPED POST-MOUNTED CONSTRUCTION SIGNS. REFER TO CTDOT STANDARD SHEET TR_1220_02 FOR ADDITIONAL INFORMATION.

APPROPRIATE TYPE DE-7 DELINIATORS SHALL BE INSTALLED ON TEMPORARY TRAFFIC BARRIER AS SPECIFIED IN CTDOT GUIDE SHEET, TITLED "DELINEATION, DELINEATORS AND ATTENUATOR REFLECTOR DETAILS" AND IN SECTION 8.22 - TEMPORARY TRAFFIC BARRIER OF FORM 819.

TEMPORARY HOT-APPLIED PAVEMENT MARKINGS TO BE USED IN AREAS WHERE THE PAVEMENT WILL BE RECONSTRUCTED OR RESURFACED.

EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED OR COVERED, INCLUDING THOSE PAVEMENT MARKINGS OUTSIDE OF THE TRAVEL WAY OR BEYOND THE LIMITS OF CONSTRUCTION.

DURING THE WINTER SHUTDOWN PERIOD, ALL TEMPORARY PAVEMENT MARKINGS SHALL BE EPOXY RESIN.

MPT SHOULDER CLOSURE NOTES

ALL PAVEMENT MARKINGS ARE EXISTING.

BARRIER NOTES

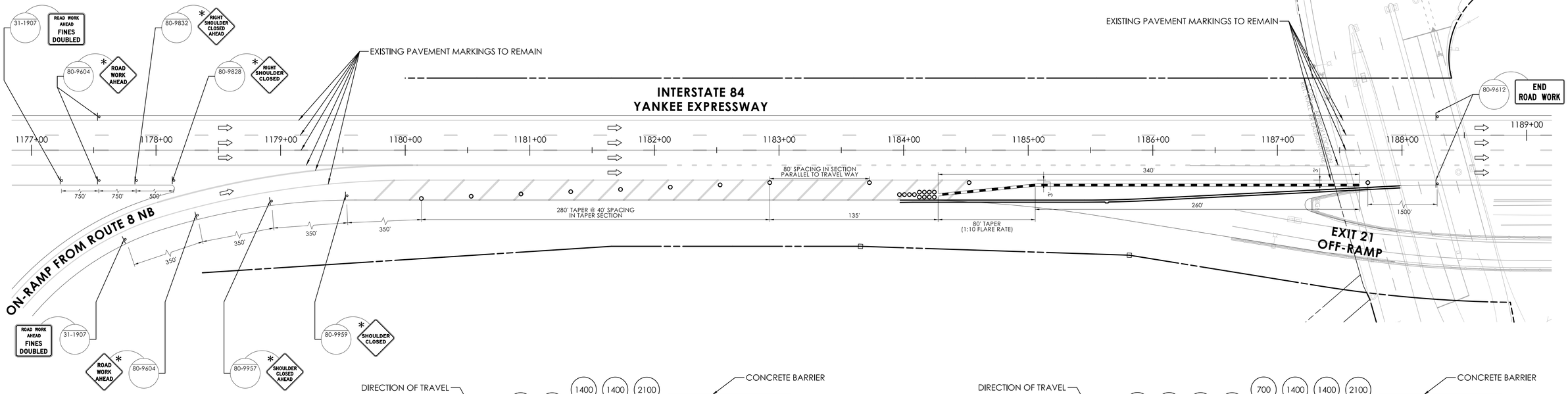
ALL TEMPORARY TRAFFIC BARRIER SHALL BE IN ACCORDANCE WITH THE FOLLOWING CTDOT STANDARD SHEETS:

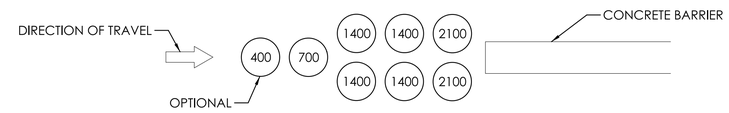
-HW-822_01 - TEMPORARY PRECAST CONCRETE BARRIER CURB
-HW-822_02A - TEMPORARY TRAFFIC BARRIER-DETAILS
-HW-822_01 - TEMPORARY TRAFFIC BARRIER (BOLTED)
-HW-822_01 - TEMPORARY TRAFFIC BARRIER AND TEMPORARY TRAFFIC BARRIER (PINNED)

COORDINATE GRID
N 40 83
CONNECTICUT

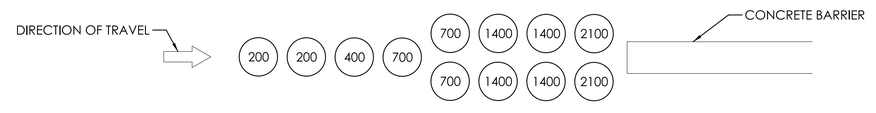
LEGEND

- WORK AREA
- SINGLE POST MOUNTED CONSTRUCTION SIGN
- DOUBLE POST MOUNTED CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- * BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY SAND BARREL ARRAY (55 MPH)
- o TRAFFIC DRUM





TEMPORARY SAND BARREL ARRAY
<= 35mph



TEMPORARY SAND BARREL ARRAY
<= 55mph

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: DG CHECKED BY: MK

0 40' 80'
HORIZONTAL SCALE
1" = 40'

CTDOT
CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S):
WATERBURY

DRAWING TITLE:
MAINTENANCE & PROTECTION OF TRAFFIC - I-84 EB - SHOULDER CLOSURE

PROJECT NO.:
0151-0340

DRAWING NO.:
MPT-01

SHEET NO.:
07.02

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PLOTTED DATE: 8/18/2025

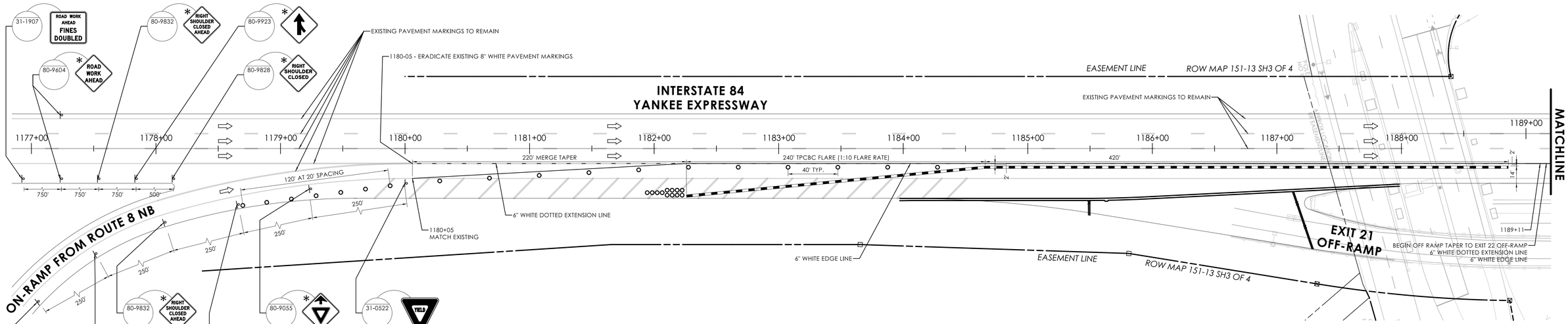
SHEET NOTES

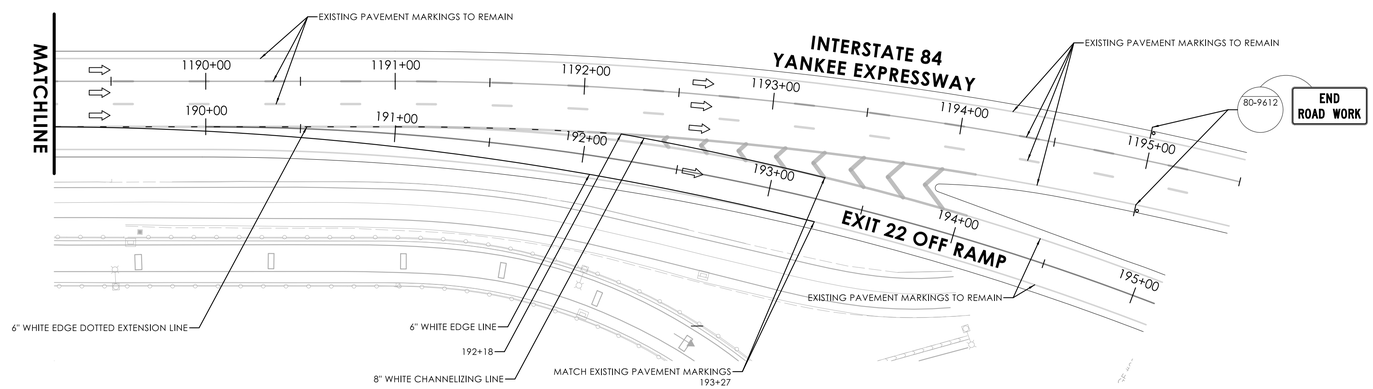
1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.

MPT LANE CLOSURE NOTES

ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.

REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.





LEGEND

- WORK AREA
- SINGLE POST MOUNTED CONSTRUCTION SIGN
- DOUBLE POST MOUNTED CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY SAND BARREL ARRAY (55 MPH)
- TRAFFIC DRUM

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80'
HORIZONTAL SCALE
1" = 40'

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - I-84 EB - LANE CLOSURE

PROJECT NO.: 0151-0340

DRAWING NO.: MPT-02

SHEET NO.: 07.03

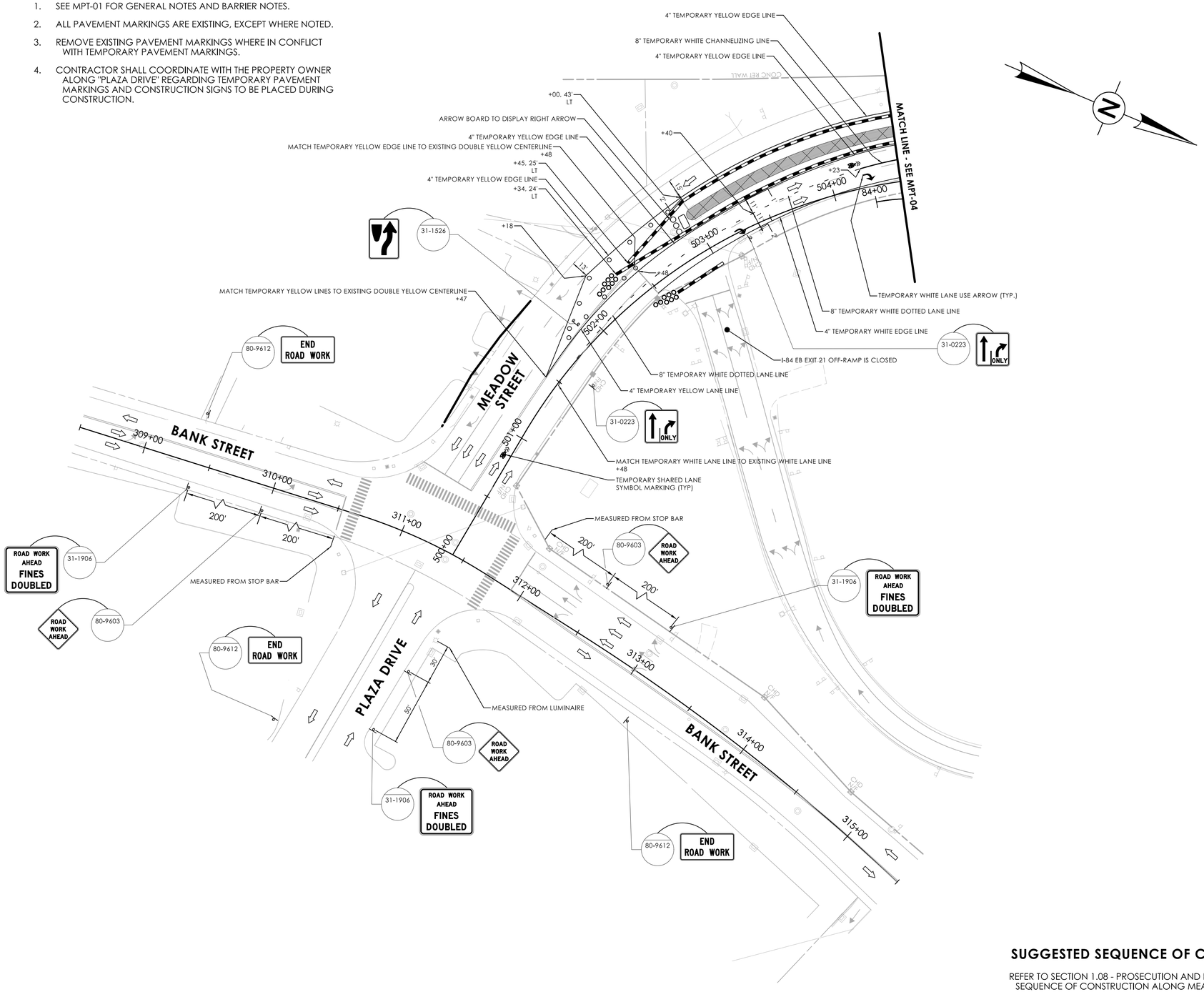
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PLOTTED DATE: 8/18/2025

LEGEND

- WORK AREA
- SINGLE POST CONSTRUCTION SIGN
- DOUBLE POST CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- * BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY IMPACT ATTENUATION SYSTEM (35MPH)
- TRAFFIC DRUM
- ARROW BOARD

MPT PLAN NOTES

1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.
2. ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.
3. REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
4. CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER ALONG "PLAZA DRIVE" REGARDING TEMPORARY PAVEMENT MARKINGS AND CONSTRUCTION SIGNS TO BE PLACED DURING CONSTRUCTION.



SUGGESTED SEQUENCE OF CONSTRUCTION

REFER TO SECTION 1.08 - PROSECUTION AND PROGRESS FOR THE SUGGESTED SEQUENCE OF CONSTRUCTION ALONG MEADOW STREET.

MEADOW STREET - STAGE 1

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

HORIZONTAL SCALE 1" = 40' (0, 40', 80')

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 1

PROJECT NO.: 0151-0340

DRAWING NO.: MPT-03

SHEET NO.: 07.04

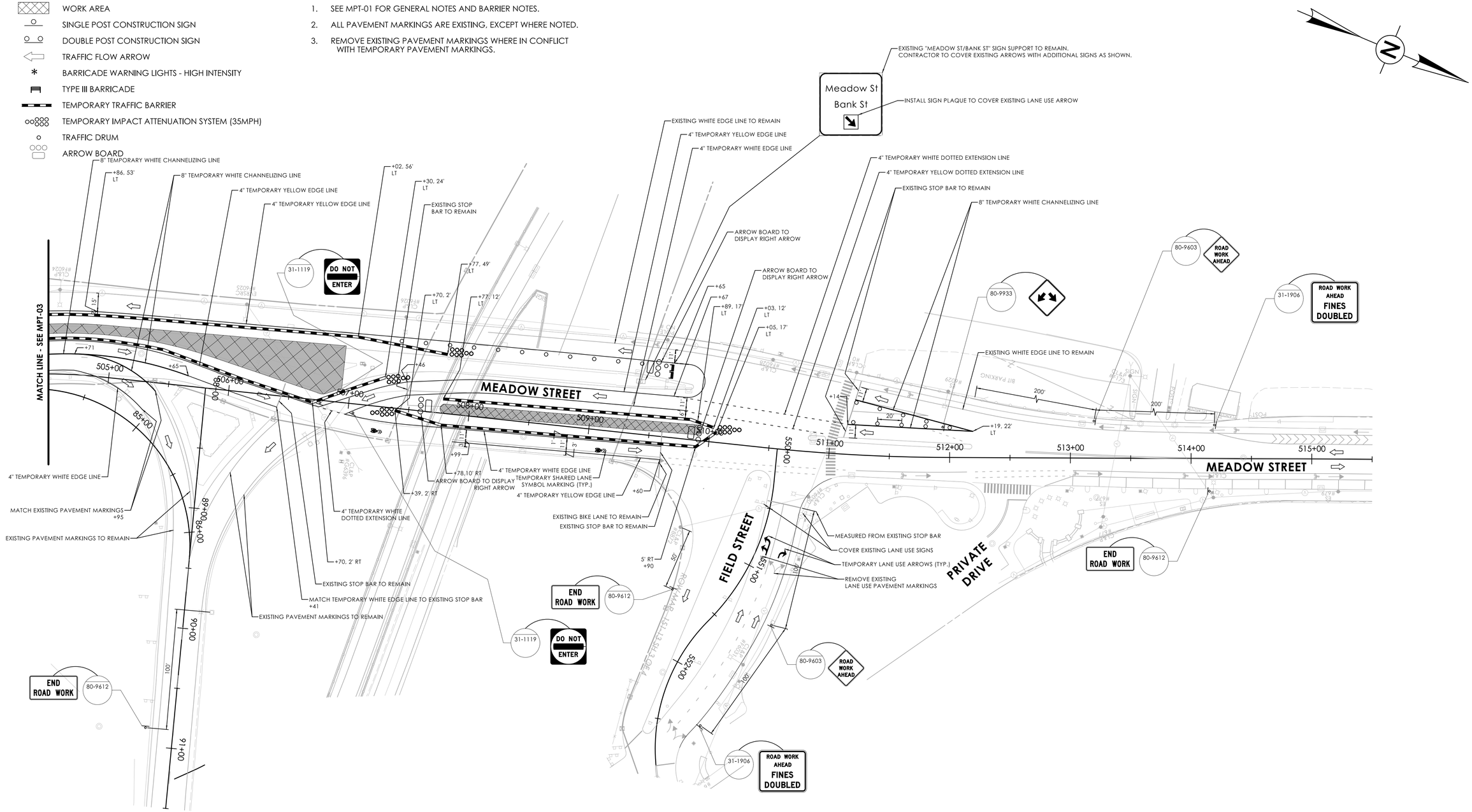
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PLOTTED DATE: 8/18/2025

LEGEND

- WORK AREA
- SINGLE POST CONSTRUCTION SIGN
- DOUBLE POST CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY IMPACT ATTENUATION SYSTEM (35MPH)
- TRAFFIC DRUM
- ARROW BOARD

MPT PLAN NOTES

1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.
2. ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.
3. REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.



SUGGESTED SEQUENCE OF CONSTRUCTION

REFER TO SECTION 1.08 - PROSECUTION AND PROGRESS FOR THE SUGGESTED SEQUENCE OF CONSTRUCTION ALONG MEADOW STREET.

MEADOW STREET - STAGE 1

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

HORIZONTAL SCALE 1" = 40' (0, 40', 80')

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 1

PROJECT NO.: 0151-0340

DRAWING NO.: MPT-04

SHEET NO.: 07.05

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PLOTTED DATE: 8/18/2025

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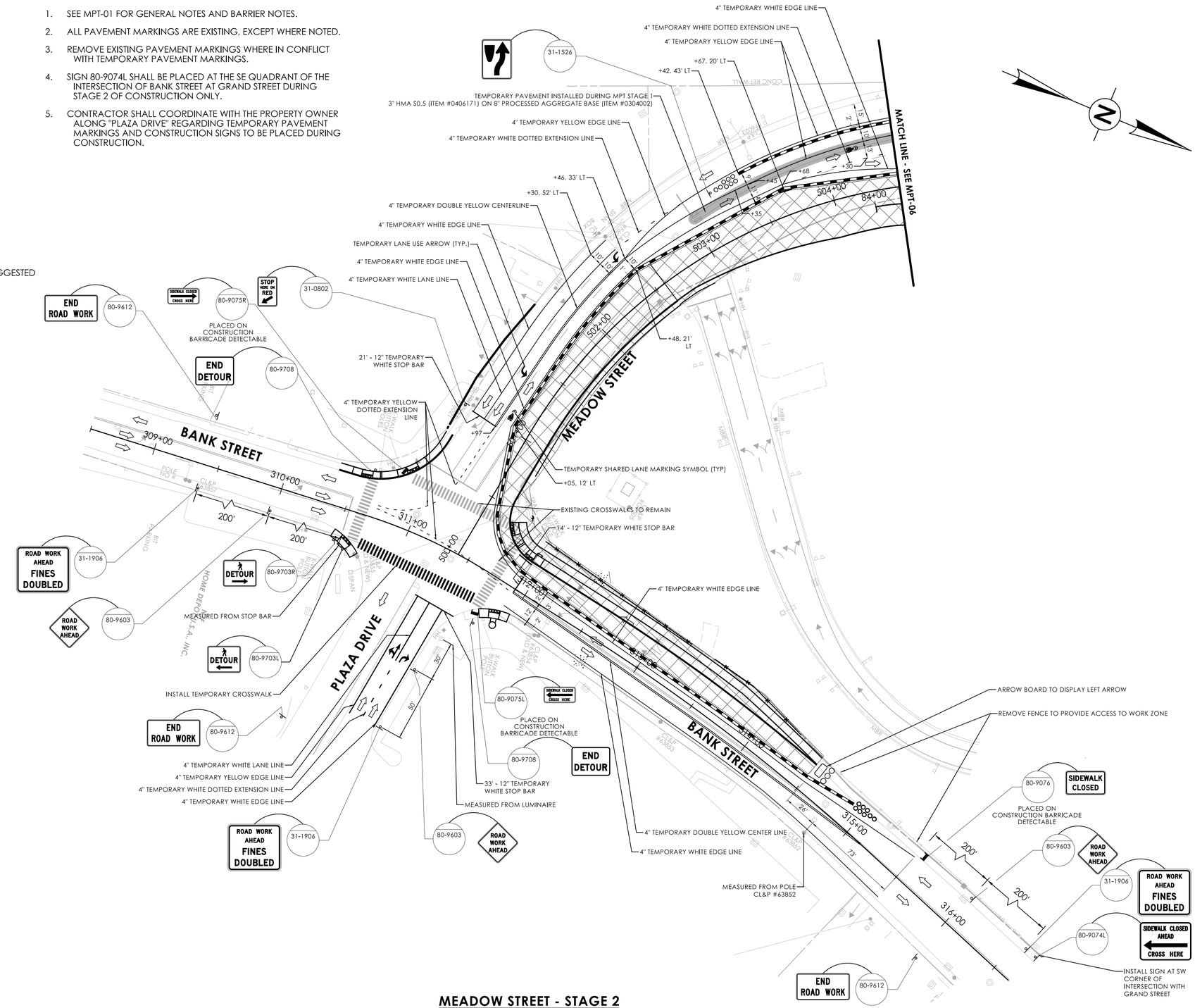
- WORK AREA
- SINGLE POST CONSTRUCTION SIGN
- DOUBLE POST CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- * BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY IMPACT ATTENUATION SYSTEM (35MPH)
- TRAFFIC DRUM
- TEMPORARY PAVEMENT
- ARROW BOARD

MPT PLAN NOTES

1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.
2. ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.
3. REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
4. SIGN 80-9074L SHALL BE PLACED AT THE SE QUADRANT OF THE INTERSECTION OF BANK STREET AT GRAND STREET DURING STAGE 2 OF CONSTRUCTION ONLY.
5. CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER ALONG "PLAZA DRIVE" REGARDING TEMPORARY PAVEMENT MARKINGS AND CONSTRUCTION SIGNS TO BE PLACED DURING CONSTRUCTION.

SUGGESTED SEQUENCE OF CONSTRUCTION

REFER TO SECTION 1.08 - PROSECUTION AND PROGRESS FOR THE SUGGESTED SEQUENCE OF CONSTRUCTION ALONG MEADOW STREET.



MEADOW STREET - STAGE 2

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: CHECKED BY:

0 40' 80'
HORIZONTAL SCALE
1" = 40'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 2

PROJECT NO.: 0151-0340

DRAWING NO.: MPT-05

SHEET NO.: 07.06

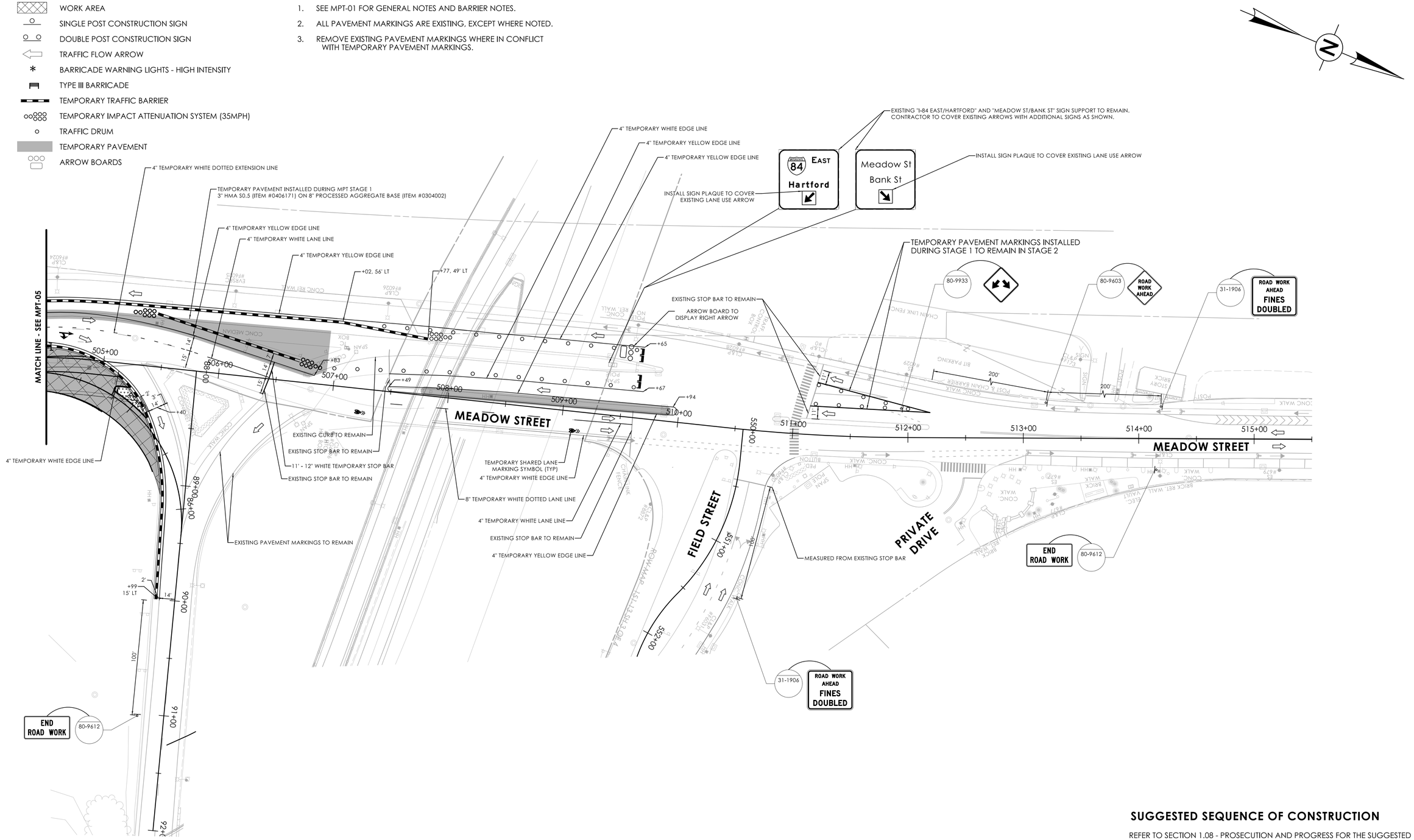
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PLOTTED DATE: 8/18/2025

LEGEND

- WORK AREA
- SINGLE POST CONSTRUCTION SIGN
- DOUBLE POST CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- BARRICADE WARNING LIGHTS - HIGH INTENSITY
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- TEMPORARY IMPACT ATTENUATION SYSTEM (35MPH)
- TRAFFIC DRUM
- TEMPORARY PAVEMENT
- ARROW BOARDS

MPT PLAN NOTES

1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.
2. ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.
3. REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.



SUGGESTED SEQUENCE OF CONSTRUCTION

REFER TO SECTION 1.08 - PROSECUTION AND PROGRESS FOR THE SUGGESTED SEQUENCE OF CONSTRUCTION ALONG MEADOW STREET.

MEADOW STREET - STAGE 2

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

HORIZONTAL SCALE 1" = 40' (0, 40', 80')

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 2

PROJECT NO.: 0151-0340

DRAWING NO.: MPT-06

SHEET NO.: 07.07

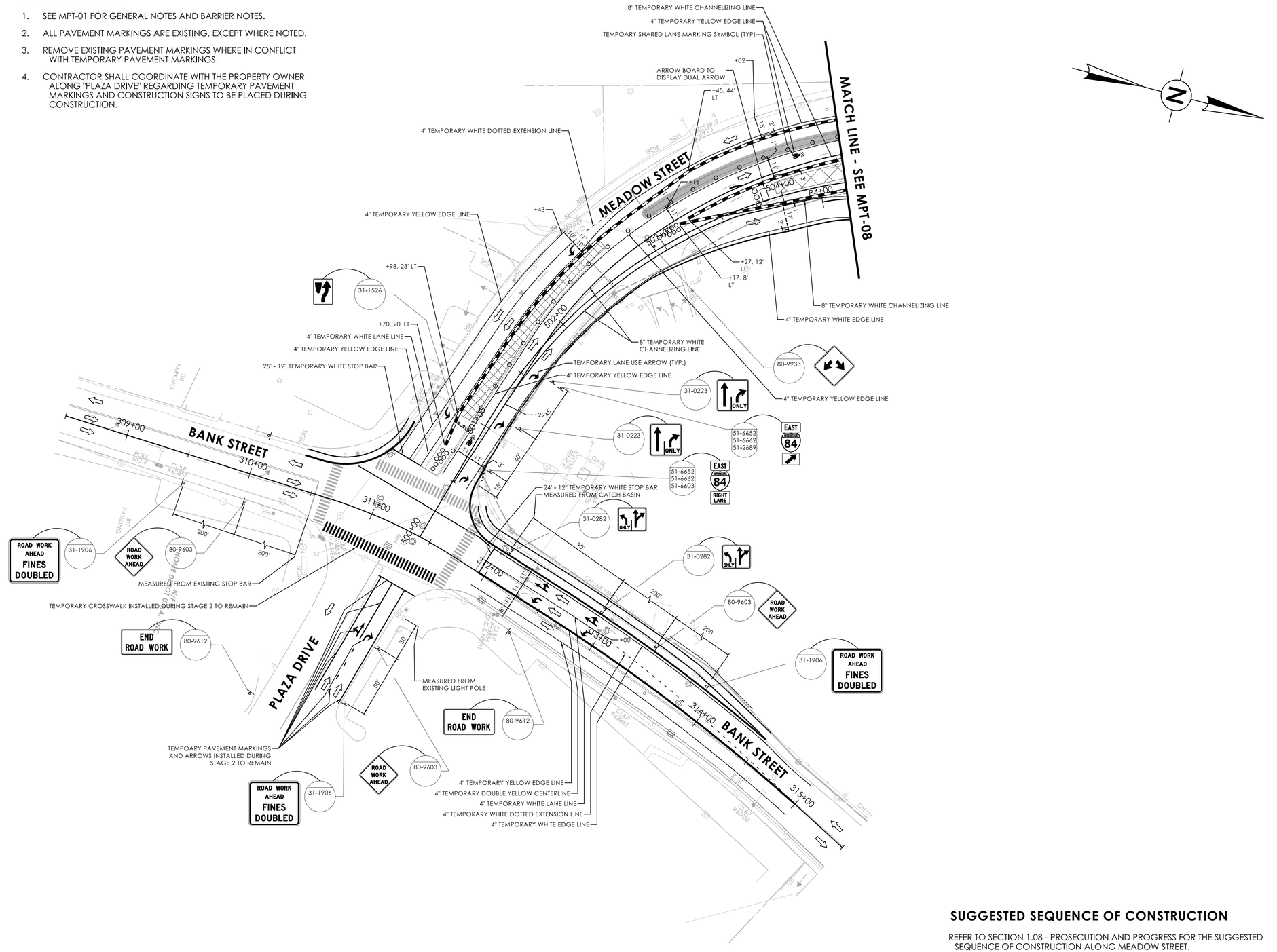
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PLOTTED DATE: 8/18/2025

LEGEND

- WORK AREA
- SINGLE POST CONSTRUCTION SIGN
- DOUBLE POST CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY IMPACT ATTENUATION SYSTEM (35MPH)
- TRAFFIC DRUM
- ARROW BOARD

MPT PLAN NOTES

1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.
2. ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.
3. REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
4. CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER ALONG "PLAZA DRIVE" REGARDING TEMPORARY PAVEMENT MARKINGS AND CONSTRUCTION SIGNS TO BE PLACED DURING CONSTRUCTION.



SUGGESTED SEQUENCE OF CONSTRUCTION

REFER TO SECTION 1.08 - PROSECUTION AND PROGRESS FOR THE SUGGESTED SEQUENCE OF CONSTRUCTION ALONG MEADOW STREET.

MEADOW STREET - STAGE 3

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80'
HORIZONTAL SCALE
1" = 40'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 3

PROJECT NO.: 0151-0340

DRAWING NO.: MPT-07

SHEET NO.: 07.08

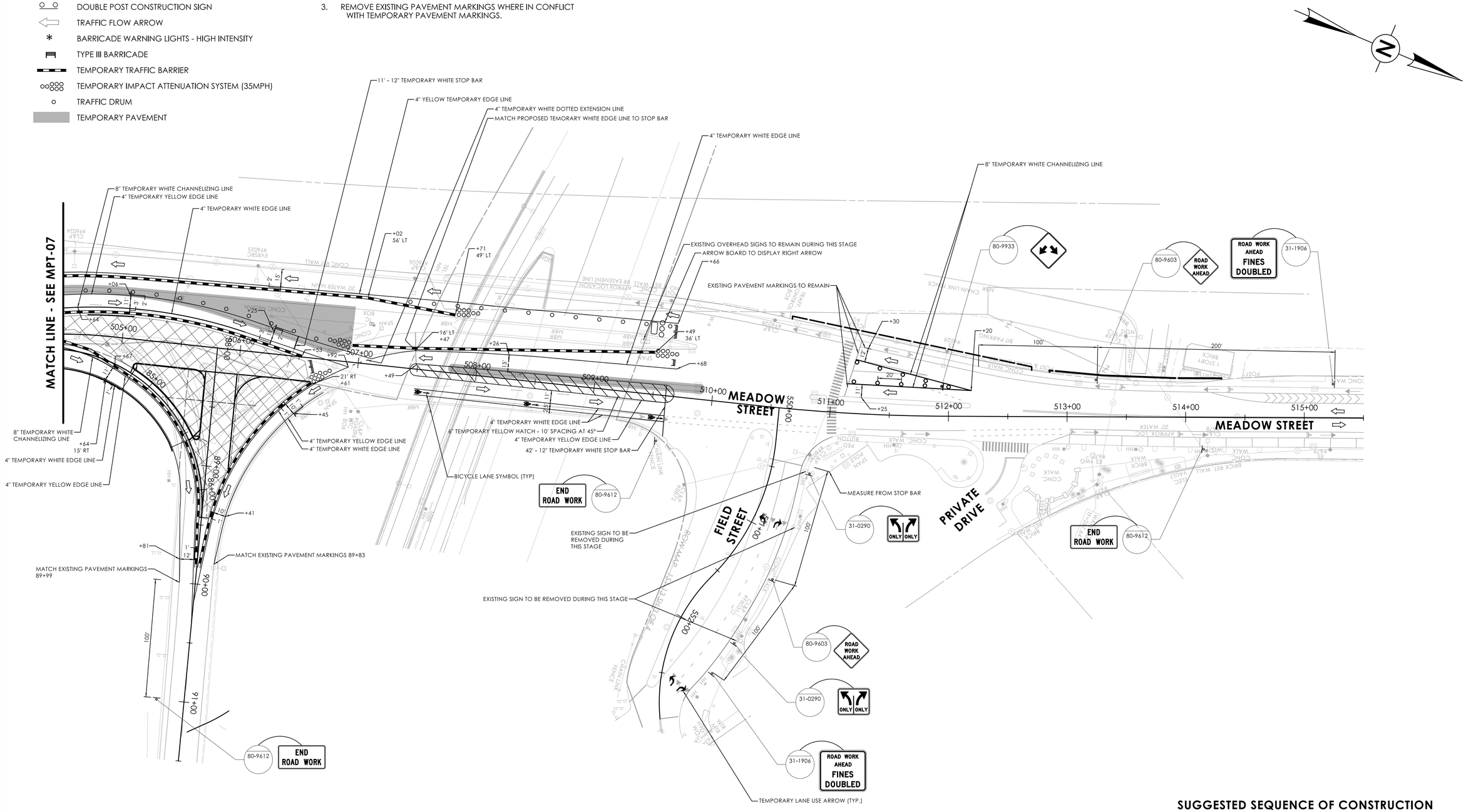
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PLOTTED DATE: 8/18/2025

LEGEND

- WORK AREA
- SINGLE POST CONSTRUCTION SIGN
- DOUBLE POST CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY IMPACT ATTENUATION SYSTEM (35MPH)
- TRAFFIC DRUM
- TEMPORARY PAVEMENT

MPT PLAN NOTES

1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.
2. ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.
3. REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.



SUGGESTED SEQUENCE OF CONSTRUCTION

REFER TO SECTION 1.08 - PROSECUTION AND PROGRESS FOR THE SUGGESTED SEQUENCE OF CONSTRUCTION ALONG MEADOW STREET.

MEADOW STREET - STAGE 3

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: Michael D. Fuller, No. 24XXXX, Engineer, 100 Constitution Plaza, Hartford, CT 06103

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80' HORIZONTAL SCALE 1" = 40'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 3

PROJECT NO.: 0151-0340

DRAWING NO.: MPT-08

SHEET NO.: 07.09

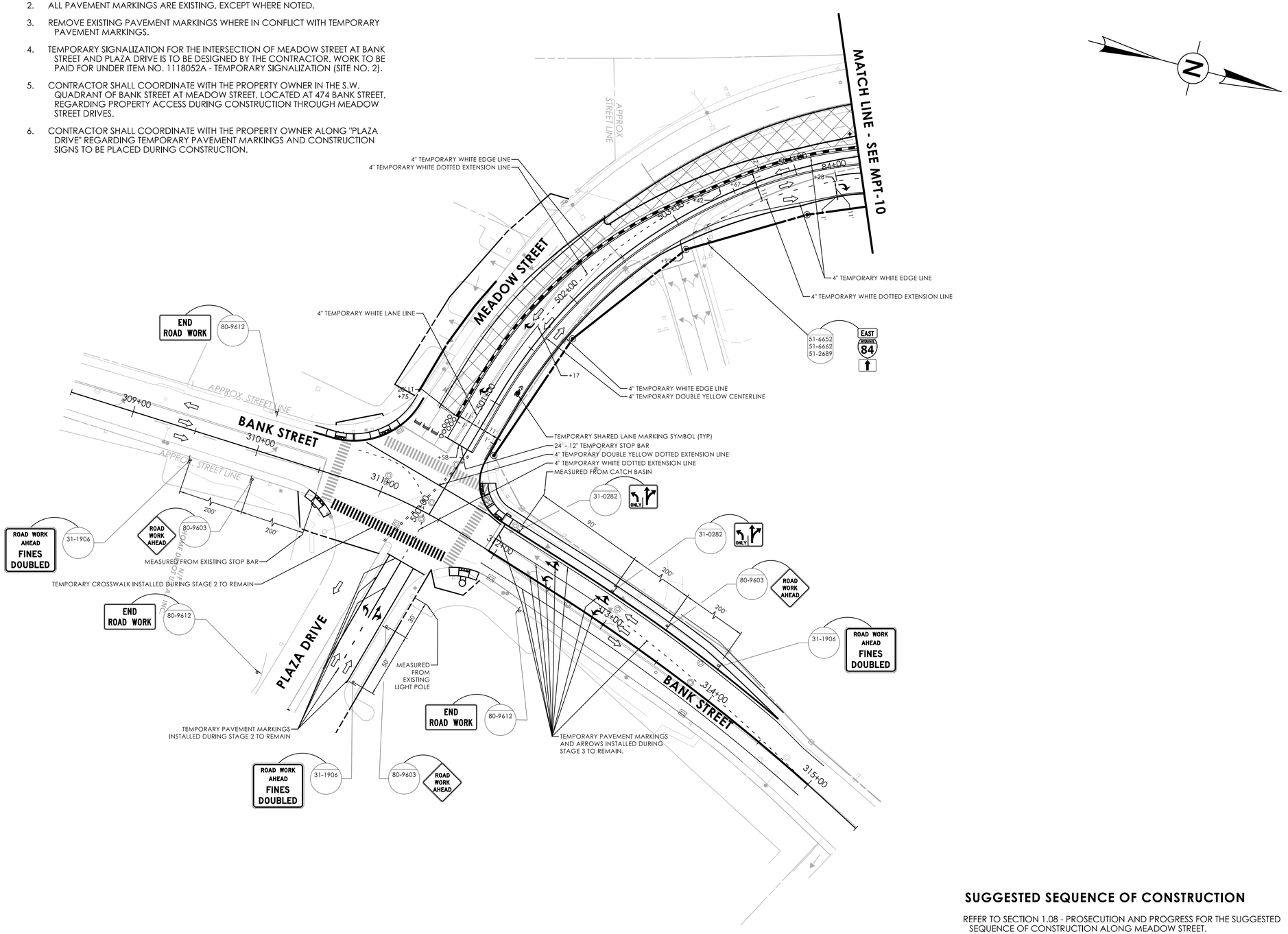
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PLOTTED DATE: 8/18/2025

LEGEND

- WORK AREA
- SINGLE POST CONSTRUCTION SIGN
- DOUBLE POST CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY IMPACT ATTENUATION SYSTEM (35MPH)
- TRAFFIC DRUM
- TEMPORARY PAVEMENT
- ARROW BOARD

MPT PLAN NOTES

1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.
2. ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.
3. REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
4. TEMPORARY SIGNALIZATION FOR THE INTERSECTION OF MEADOW STREET AT BANK STREET AND PLAZA DRIVE IS TO BE DESIGNED BY THE CONTRACTOR. WORK TO BE PAID FOR UNDER ITEM NO. 1118052A - TEMPORARY SIGNALIZATION (SITE NO. 2).
5. CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER IN THE S.W. QUADRANT OF BANK STREET AT MEADOW STREET, LOCATED AT 474 BANK STREET, REGARDING PROPERTY ACCESS DURING CONSTRUCTION THROUGH MEADOW STREET DRIVES.
6. CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER ALONG "PLAZA DRIVE" REGARDING TEMPORARY PAVEMENT MARKINGS AND CONSTRUCTION SIGNS TO BE PLACED DURING CONSTRUCTION.



SUGGESTED SEQUENCE OF CONSTRUCTION

REFER TO SECTION 1.08 - PROSECUTION AND PROGRESS FOR THE SUGGESTED SEQUENCE OF CONSTRUCTION ALONG MEADOW STREET.

MEADOW STREET - STAGE 4

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80'
HORIZONTAL SCALE
1" = 40'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 4

PROJECT NO.: 0151-0340

DRAWING NO.: MPT-09

SHEET NO.: 07.10

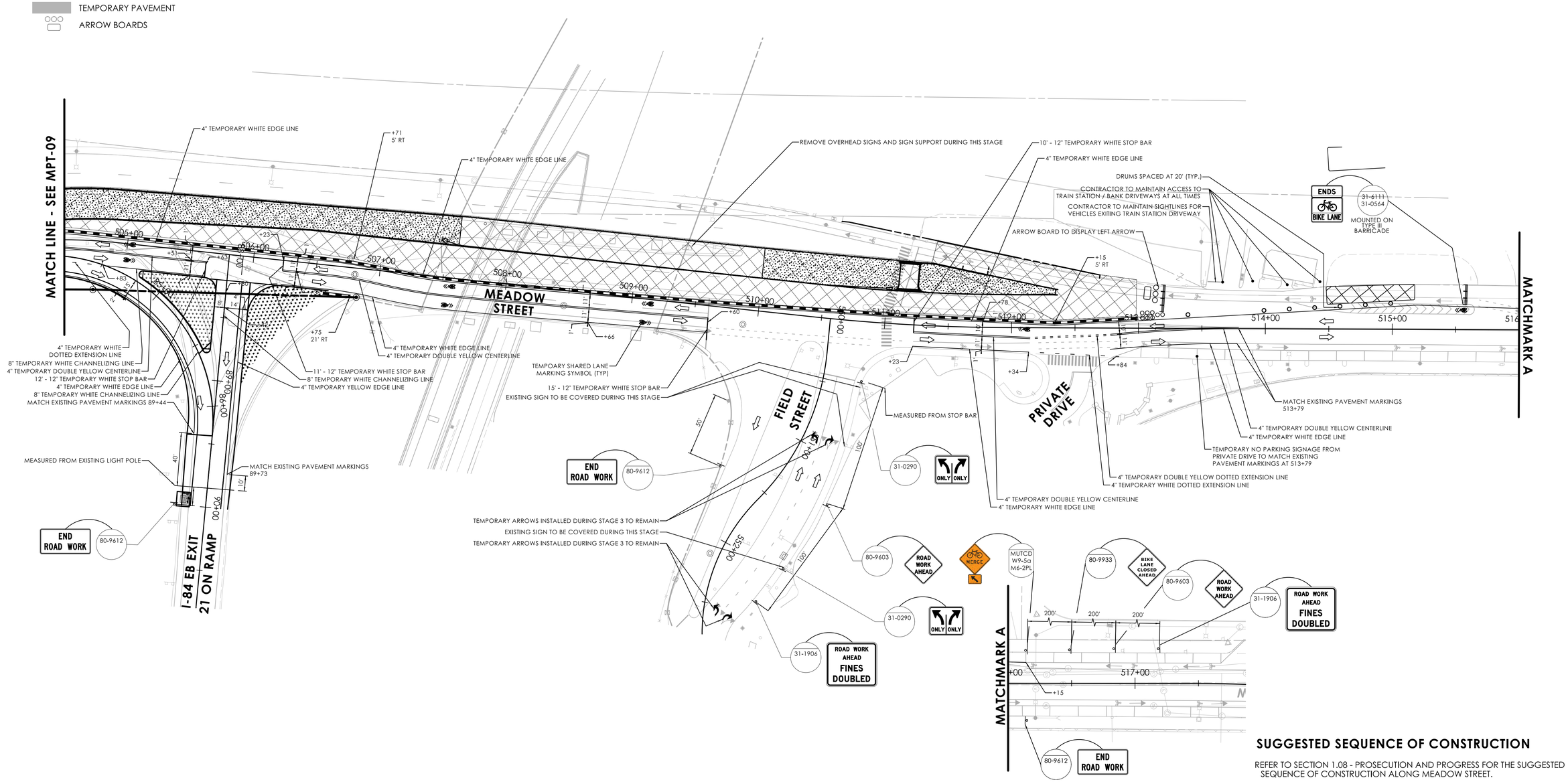
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PLOTTED DATE: 8/18/2025

LEGEND

- WORK AREA
- SINGLE POST CONSTRUCTION SIGN
- DOUBLE POST CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY IMPACT ATTENUATION SYSTEM (35MPH)
- TRAFFIC DRUM
- TEMPORARY PAVEMENT
- ARROW BOARDS

MPT PLAN NOTES

1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.
2. ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.
3. REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
4. TEMPORARY SIGNALIZATION FOR THE INTERSECTION OF MEADOW STREET AT I-84 EB EXIT 21 ON RAMP IS TO BE DESIGNED BY THE CONTRACTOR. WORK TO BE PAID FOR UNDER ITEM NO. 1118053A - TEMPORARY SIGNALIZATION (SITE NO. 3).
5. TEMPORARY SIGNALIZATION FOR THE INTERSECTION OF MEADOW STREET AT FIELD STREET IS TO BE DESIGNED BY THE CONTRACTOR. WORK TO BE PAID FOR UNDER ITEM NO. 1118054A - TEMPORARY SIGNALIZATION (SITE NO. 4).
6. REFER TO DTR-05 FOR TRUCK DETOUR AROUND FIELD STREET.



SUGGESTED SEQUENCE OF CONSTRUCTION

REFER TO SECTION 1.08 - PROSECUTION AND PROGRESS FOR THE SUGGESTED SEQUENCE OF CONSTRUCTION ALONG MEADOW STREET.

MEADOW STREET - STAGE 4

DETAIL "A"

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: Michael P. Maher, No. 0026911, Registered Professional Engineer, 07/30/25

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

HORIZONTAL SCALE 1" = 40' (0, 40', 80')

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 4

PROJECT NO.: 0151-0340

DRAWING NO.: MPT-10

SHEET NO.: 07.11

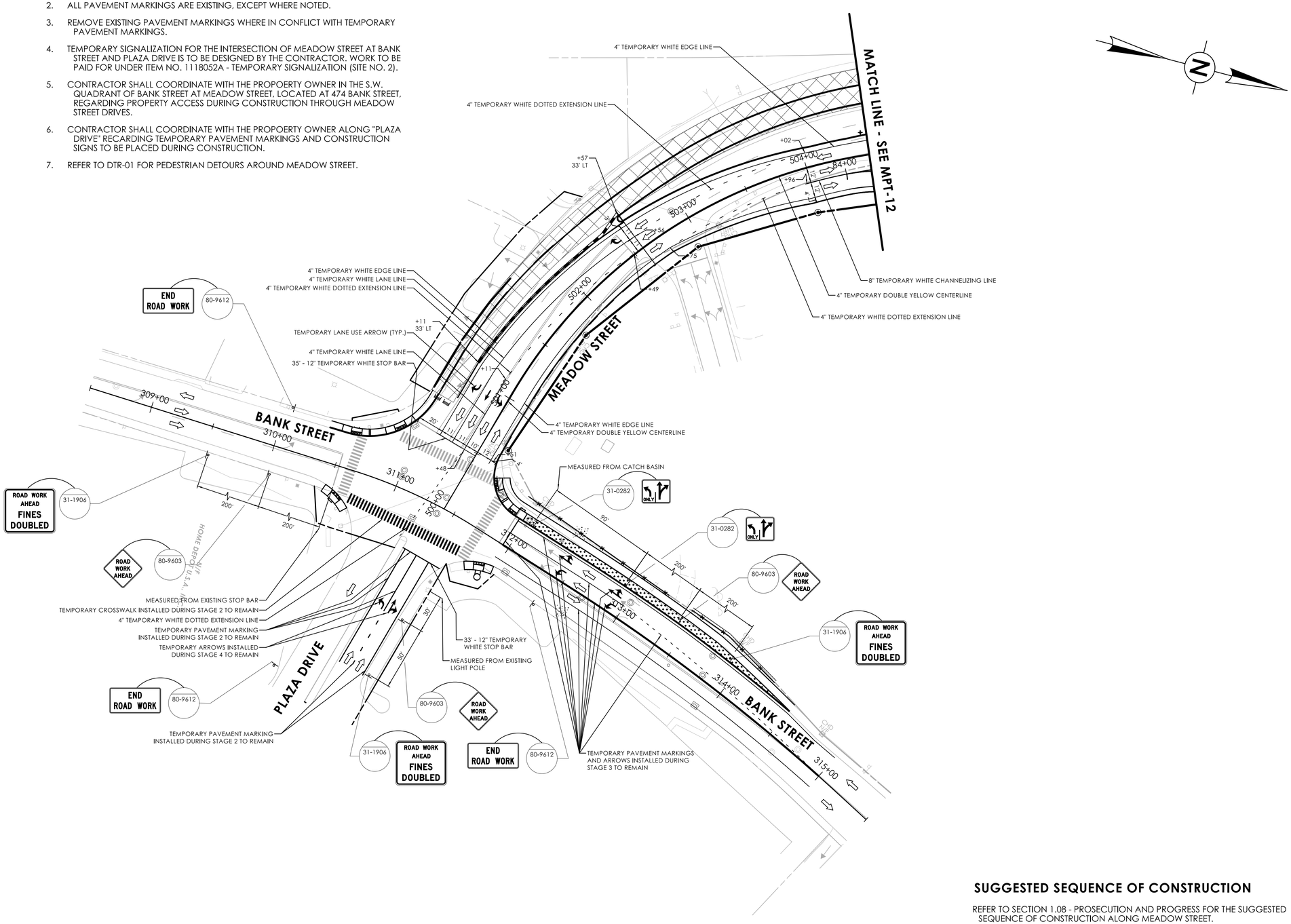
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PLOTTED DATE: 8/18/2025

LEGEND

- WORK AREA
- SINGLE POST CONSTRUCTION SIGN
- DOUBLE POST CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- * BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY IMPACT ATTENUATION SYSTEM (35MPH)
- TRAFFIC DRUM
- ARROW BOARD

MPT PLAN NOTES

1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.
2. ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.
3. REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
4. TEMPORARY SIGNALIZATION FOR THE INTERSECTION OF MEADOW STREET AT BANK STREET AND PLAZA DRIVE IS TO BE DESIGNED BY THE CONTRACTOR. WORK TO BE PAID FOR UNDER ITEM NO. 1118052A - TEMPORARY SIGNALIZATION (SITE NO. 2).
5. CONTRACTOR SHALL COORDINATE WITH THE PROPOERTY OWNER IN THE S.W. QUADRANT OF BANK STREET AT MEADOW STREET, LOCATED AT 474 BANK STREET, REGARDING PROPERTY ACCESS DURING CONSTRUCTION THROUGH MEADOW STREET DRIVES.
6. CONTRACTOR SHALL COORDINATE WITH THE PROPOERTY OWNER ALONG "PLAZA DRIVE" RECARDING TEMPORARY PAVEMENT MARKINGS AND CONSTRUCTION SIGNS TO BE PLACED DURING CONSTRUCTION.
7. REFER TO DTR-01 FOR PEDESTRIAN DETOURS AROUND MEADOW STREET.



SUGGESTED SEQUENCE OF CONSTRUCTION

REFER TO SECTION 1.08 - PROSECUTION AND PROGRESS FOR THE SUGGESTED SEQUENCE OF CONSTRUCTION ALONG MEADOW STREET.

MEADOW STREET - STAGE 5

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80' HORIZONTAL SCALE 1" = 40'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 5

PROJECT NO.: 0151-0340

DRAWING NO.: MPT-11

SHEET NO.: 07.12

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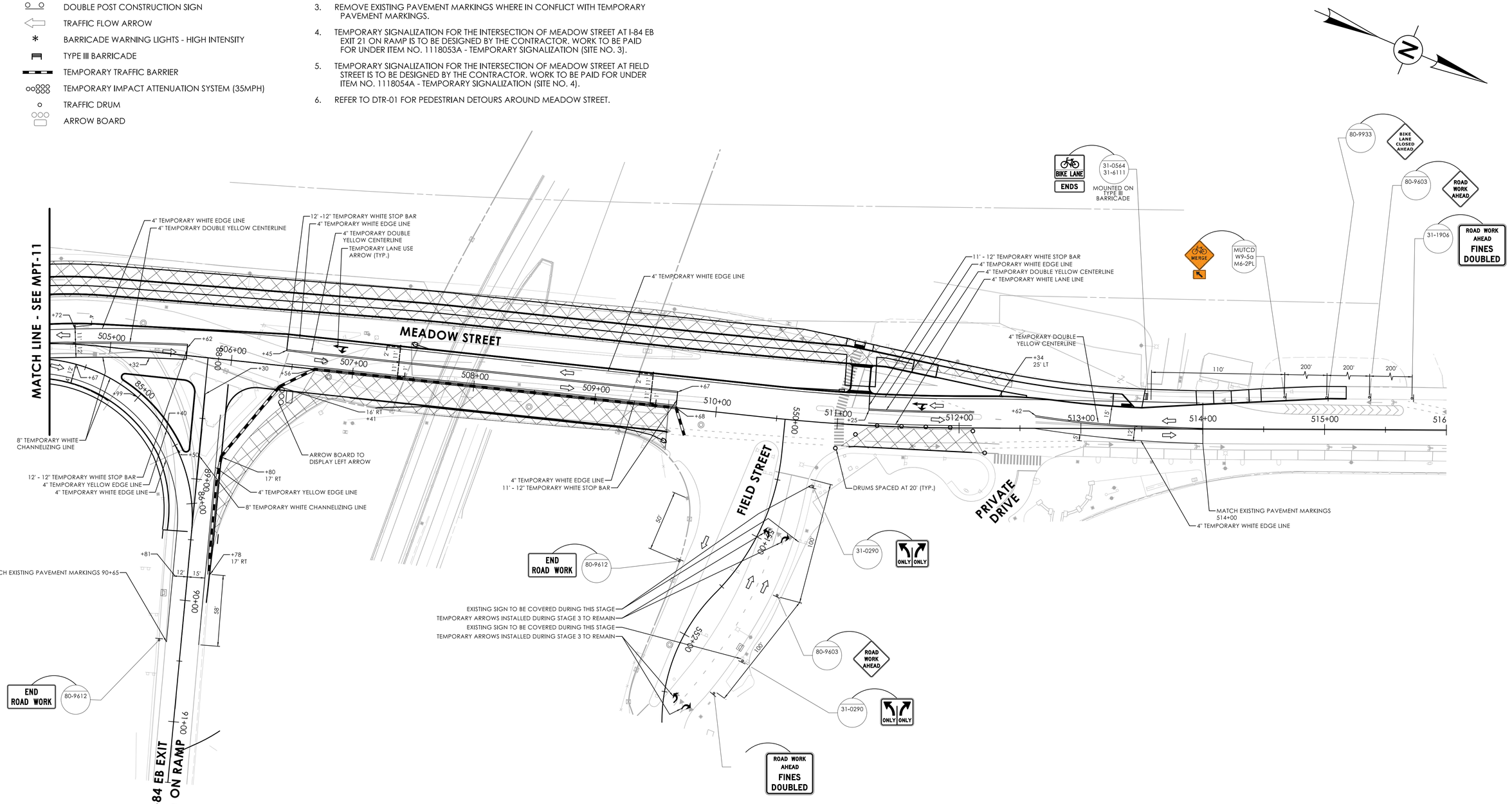
PLOTTED DATE: 8/18/2025

LEGEND

- WORK AREA
- SINGLE POST CONSTRUCTION SIGN
- DOUBLE POST CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY IMPACT ATTENUATION SYSTEM (35MPH)
- TRAFFIC DRUM
- ARROW BOARD

MPT PLAN NOTES

1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.
2. ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.
3. REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
4. TEMPORARY SIGNALIZATION FOR THE INTERSECTION OF MEADOW STREET AT I-84 EB EXIT 21 ON RAMP IS TO BE DESIGNED BY THE CONTRACTOR. WORK TO BE PAID FOR UNDER ITEM NO. 1118053A - TEMPORARY SIGNALIZATION (SITE NO. 3).
5. TEMPORARY SIGNALIZATION FOR THE INTERSECTION OF MEADOW STREET AT FIELD STREET IS TO BE DESIGNED BY THE CONTRACTOR. WORK TO BE PAID FOR UNDER ITEM NO. 1118054A - TEMPORARY SIGNALIZATION (SITE NO. 4).
6. REFER TO DTR-01 FOR PEDESTRIAN DETOURS AROUND MEADOW STREET.



SUGGESTED SEQUENCE OF CONSTRUCTION

REFER TO SECTION 1.08 - PROSECUTION AND PROGRESS FOR THE SUGGESTED SEQUENCE OF CONSTRUCTION ALONG MEADOW STREET.

MEADOW STREET - STAGE 5

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80'
HORIZONTAL SCALE 1" = 40'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 5

PROJECT NO.: 0151-0340

DRAWING NO.: MPT-12

SHEET NO.: 07.13

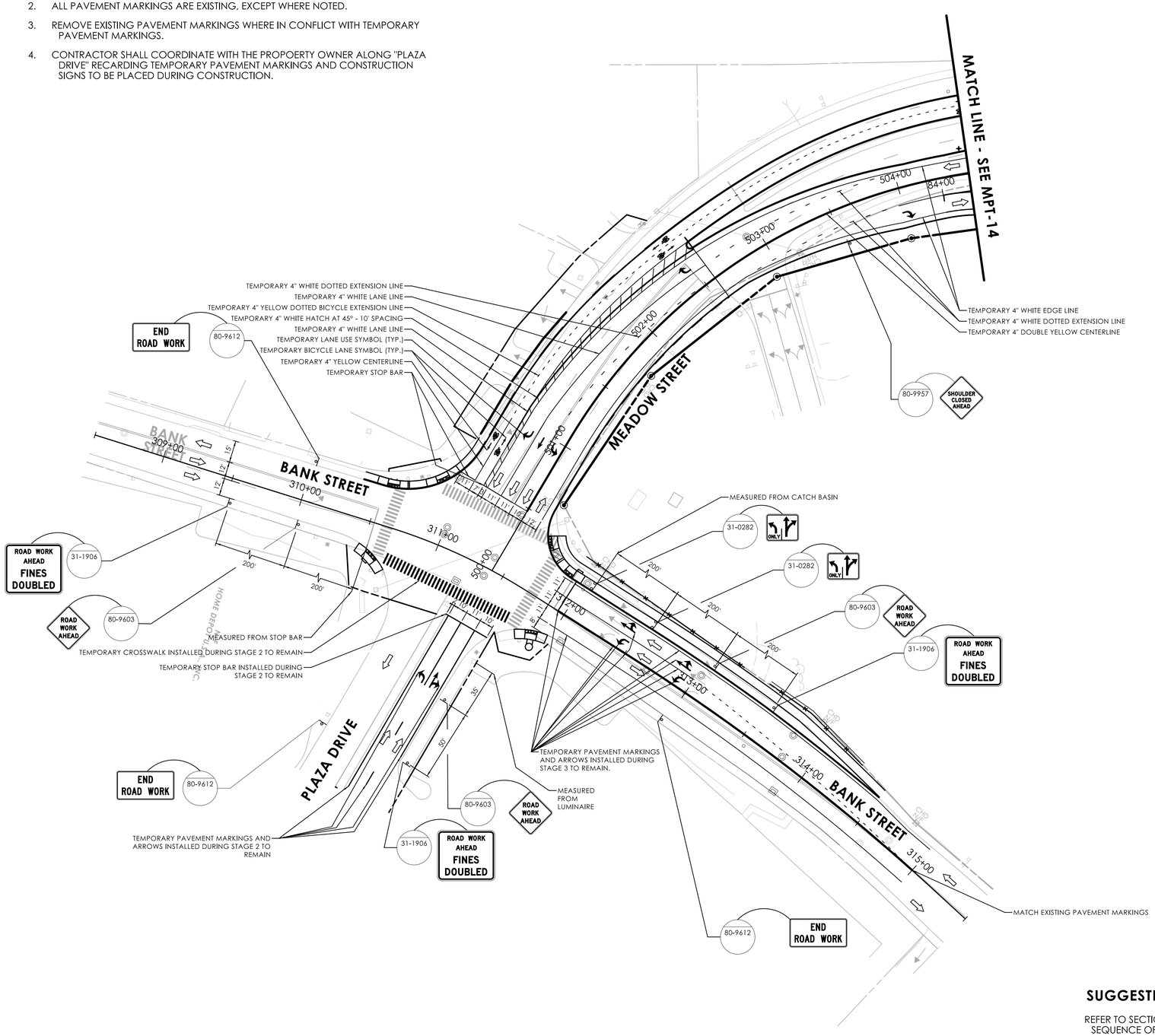
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PLOTTED DATE: 8/18/2025

LEGEND

- WORK AREA
- SINGLE POST CONSTRUCTION SIGN
- DOUBLE POST CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY IMPACT ATTENUATION SYSTEM (35MPH)
- TRAFFIC DRUM

MPT PLAN NOTES

1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.
2. ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.
3. REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
4. CONTRACTOR SHALL COORDINATE WITH THE PROPOERTY OWNER ALONG "PLAZA DRIVE" RECARDING TEMPORARY PAVEMENT MARKINGS AND CONSTRUCTION SIGNS TO BE PLACED DURING CONSTRUCTION.



SUGGESTED SEQUENCE OF CONSTRUCTION

REFER TO SECTION 1.08 - PROSECUTION AND PROGRESS FOR THE SUGGESTED SEQUENCE OF CONSTRUCTION ALONG MEADOW STREET.

MEADOW STREET - STAGE 6

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80'
HORIZONTAL SCALE
1" = 40'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 6

PROJECT NO.: 0151-0340

DRAWING NO.: MPT-13

SHEET NO.: 07.14

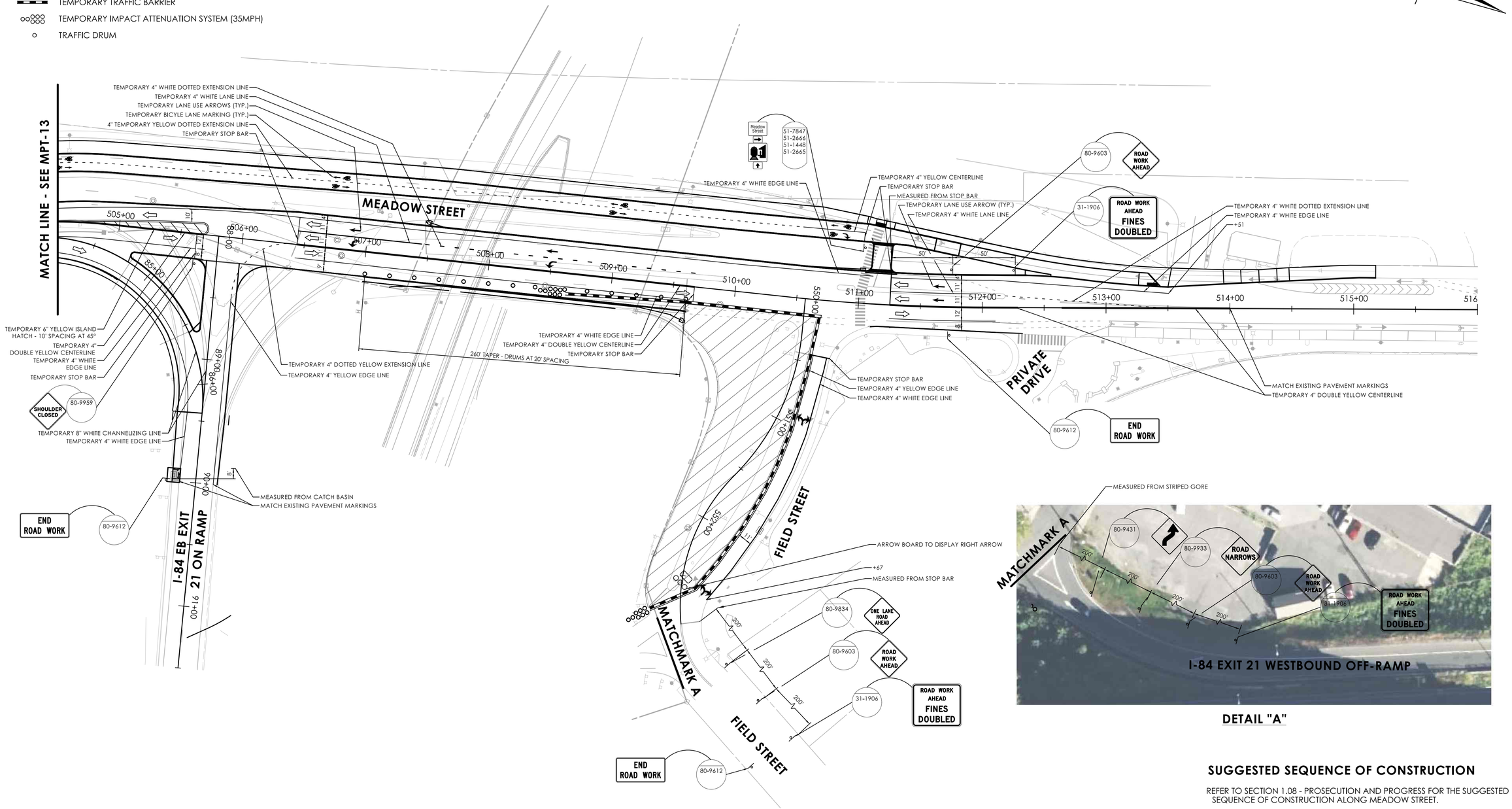
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PLOTTED DATE: 8/18/2025

LEGEND

- WORK AREA
- SINGLE POST CONSTRUCTION SIGN
- DOUBLE POST CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY IMPACT ATTENUATION SYSTEM (35MPH)
- TRAFFIC DRUM

MPT PLAN NOTES

1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.
2. ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.
3. REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
4. REFER TO DTR-01 FOR PEDESTRIAN DETOURS AROUND MEADOW STREET.
5. REFER TO DTR-04 FOR VEHICULAR DETOUR AROUND FIELD STREET AND REFER TO DTR-05 FOR TRUCK DETOUR AROUND FIELD STREET.



MEADOW STREET - STAGE 6

DETAIL "A"

SUGGESTED SEQUENCE OF CONSTRUCTION

REFER TO SECTION 1.08 - PROSECUTION AND PROGRESS FOR THE SUGGESTED SEQUENCE OF CONSTRUCTION ALONG MEADOW STREET.

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

HORIZONTAL SCALE 1" = 40'

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - MEADOW STREET - STAGE 6

PROJECT NO.: 0151-0340

DRAWING NO.: MPT-14

SHEET NO.: 07.15

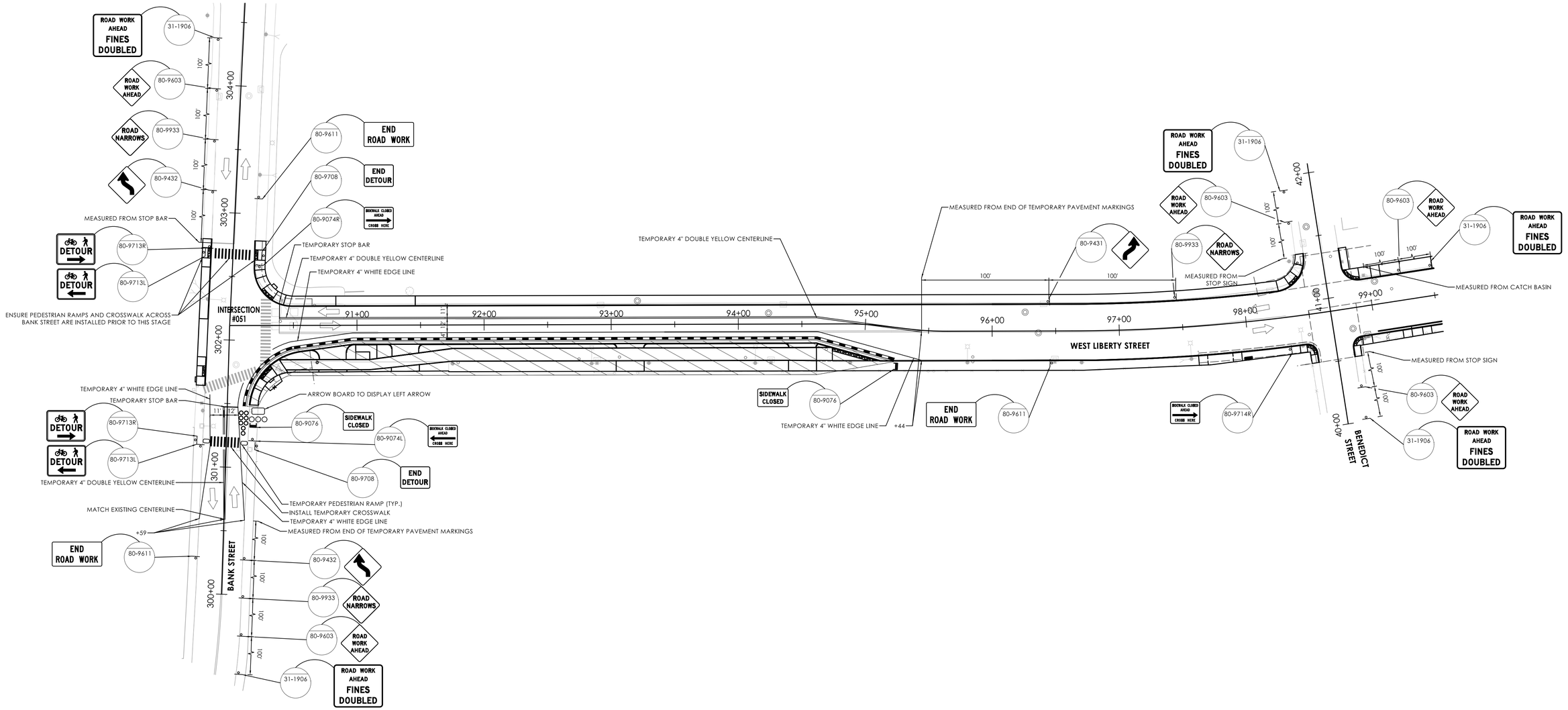
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PLOTTED DATE: 8/18/2025

LEGEND

- WORK AREA
- SINGLE POST CONSTRUCTION SIGN
- DOUBLE POST CONSTRUCTION SIGN
- TRAFFIC FLOW ARROW
- BARRICADE WARNING LIGHTS - HIGH INTENSITY
- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY IMPACT ATTENUATION SYSTEM (35MPH)
- TRAFFIC DRUM
- TEMPORARY PEDESTRIAN RAMPS
- ARROW BOARD

MPT PLAN NOTES

1. SEE MPT-01 FOR GENERAL NOTES AND BARRIER NOTES.
2. ALL PAVEMENT MARKINGS ARE EXISTING, EXCEPT WHERE NOTED.
3. REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.



SUGGESTED SEQUENCE OF CONSTRUCTION

REFER TO SECTION 1.08 - PROSECUTION AND PROGRESS FOR THE SUGGESTED SEQUENCE OF CONSTRUCTION.

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

HORIZONTAL SCALE 1" = 40'

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - WEST LIBERTY STREET

PROJECT NO.: 0151-0340

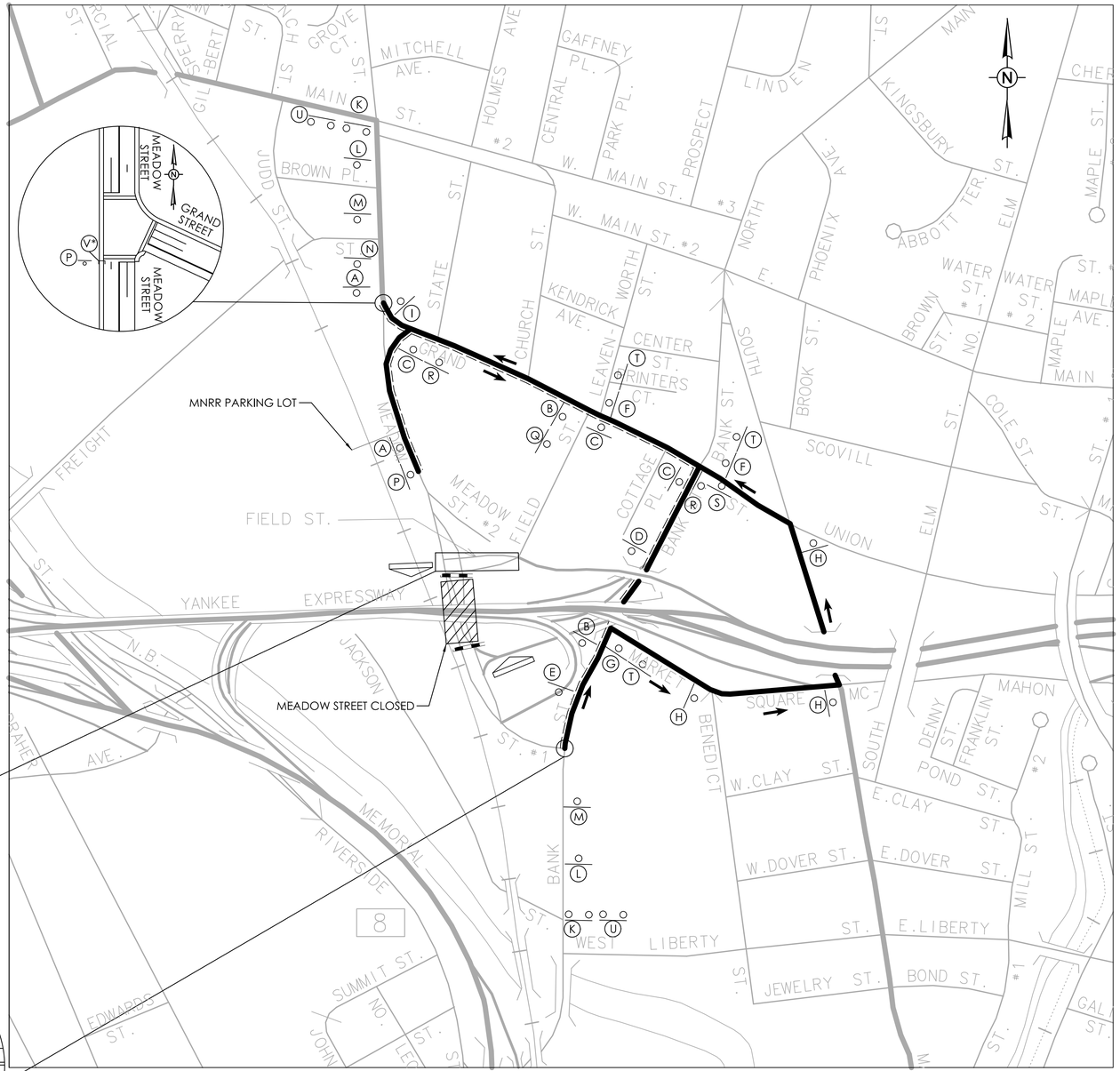
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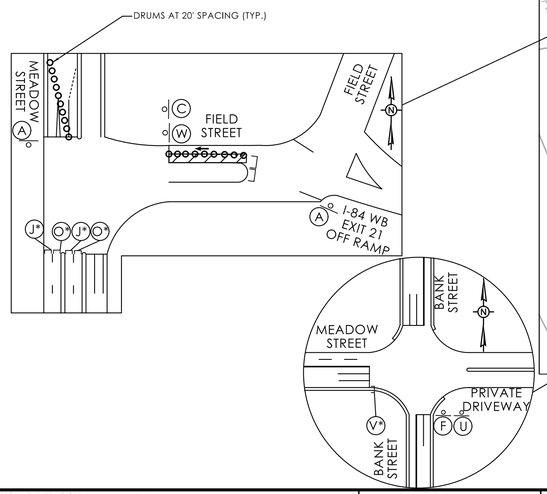
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PLOTTED DATE: 8/18/2025

SIGN LEGEND

A	80-9916	Meadow St SB	DETOUR ←
	80-9710L		
B	80-9916	Meadow St SB	DETOUR ↑
	80-9710V		
C	80-9916	Meadow St SB	DETOUR →
	80-9710R		
D	80-9916	Meadow St SB	DETOUR ↖
	80-9710VL		
E	80-9916	Meadow St SB	END DETOUR
	80-9708		
F	80-9916	Meadow St NB	DETOUR ↑
	80-9710V		
G	80-9916	Meadow St NB	DETOUR →
	80-9710R		
H	80-9916	Meadow St NB	DETOUR ←
	80-9710L		
I	80-9916	Meadow St NB	END DETOUR
	80-9708		
J	80-9080	ROAD CLOSED	
K	80-1608	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED	
L	31-1906	ROAD WORK AHEAD FINES DOUBLED	
M	80-9603	ROAD WORK AHEAD	
N	80-9928	ROAD CLOSED 500 FEET AHEAD LOCAL TRAFFIC ONLY	
O	80-9702	DETOUR	
P	80-9916	Meadow St SB	DETOUR ←
	80-9713L		
Q	80-9916	Meadow St SB	DETOUR ↑
	80-9713V		
R	80-9916	Meadow St SB	DETOUR →
	80-9713R		
S	80-9916	Meadow St NB	DETOUR ←
	80-9713L		
T	80-9916	Meadow St NB	DETOUR ↑
	80-9713V		
U	80-1619	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED	
V	80-9076	SIDEWALK CLOSED	
W	31-1603		





NOTES

1. THE LOCATIONS OF TEMPORARY SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED TO MEET FIELD CONDITIONS PRIOR TO THE IMPLEMENTATION OF THE DETOUR.

2. ALL EXISTING CONFLICTING SIGNS TO BE COVERED OR REMOVED WHILE DETOUR IS IN EFFECT.

3. DETOUR SIGNS ARE PAYABLE UNDER ITEM NO.1220027A - CONSTRUCTION SIGNS.

4. DETOUR SIGNS ARE TO BE INSTALLED SUCH THAT THEY DO NOT BLOCK OR ARE NOT BLOCKED BY EXISTING SIGNS.

5. DETOUR SIGNS ARE ONLY TO BE POSTED WHILE THE DETOUR IS IN EFFECT. THEY SHALL BE COVERED OR REMOVED WHILE DETOUR IS NOT OPERATIONAL.

6. ANY EXISTING SIGNS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE STATE.

7. ALL CONSTRUCTION / DETOUR SIGNS SHALL BE INSTALLED ON BREAKAWAY POSTS PER CTDOT STANDARD SHEETS TR-1208_01, TR-1208_02, AND TR-1220_02.

8. ACCESS AND EGRESS TO ALL STREETS AND DRIVES MUST BE MAINTAINED AT ALL TIMES.

9. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR SECTION 1.08 - PROSECUTION AND PROGRESS AND ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.

10. TWO WEEKS PRIOR TO INITIATING THE DETOUR; THE CONTRACTOR SHALL INSTALL 2 CMS (ITEM NO. 1131002 - REMOTE CONTROL CHANGEABLE MESSAGE SIGN):
-ONE AT THE INTERSECTION OF WEST MAIN STREET AT GRAND STREET AND MEADOW STREET
-ONE AT THE INTERSECTION OF BANK STREET AND MEADOW STREET
FINAL LOCATION FOR ALL CMS SHALL BE FIELD VERIFIED BY THE ENGINEER. ALL CMS SHALL REMAIN FOR THE DURATION OF THE DETOUR.

11. ALL DETOUR SIGNS TO BE INSTALLED PRIOR TO THE ROADWAY CLOSURE.

12. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST TWO WEEKS PRIOR TO THE START OF THE ROADWAY CLOSURE. THE ENGINEER WILL THEN NOTIFY THE CITY OF WATERBURY AND ALL EMERGENCY SERVICES.

13. THE CONTRACTOR IS TO MAINTAIN ALL DETOUR SIGNS DURING THE ROADWAY CLOSURE.

14. THE LOCATIONS OF CONSTRUCTION BARRICADES TYPE III SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE INSTALLED FULLY ACROSS THE ROAD AND ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS.

15. INSTALL ITEM NO. 0979005A - PEDESTRIAN BARRICADE TO FULLY CLOSE THE SIDEWALK TO PEDESTRIANS. INSTALL SIGN NO.80-9076 (SIDEWALK CLOSED).

16. ADVANCE SIGNS TO BE ONLY INSTALLED IF THE ADVANCE SIGNS SHOWN ON THE MPT SUBSET ARE NOT IN PLACE WHEN THIS PLAN IS USED.

LEGEND

SIGN POST - MOUNTED SIGN	○
TWO SIGN POSTS - MOUNTED SIGN	○ ○
BARRICADE MOUNTED SIGN	*
CONSTRUCTION BARRICADE TYPE III / PEDESTRIAN BARRICADE	
CHANGEABLE MESSAGE SIGN	
PEDESTRIAN DETOUR ROUTE	— —
VEHICULAR DETOUR ROUTE	▬
TEMPORARY TRAFFIC BARRIER	
WORK AREA	

CHANGEABLE MESSAGE SIGN (CMS) NOTES

1. CMS SHALL DISPLAY THE FOLLOWING MESSAGES PRIOR TO MEADOW STREET CLOSURE:

FRAME 1	MEADOW TO CLOSE 8PM-6AM
FRAME 2	DD/MM TO DD/MM

2. WHILE DETOUR AND CLOSURE ARE IN EFFECT, CMS SHALL DISPLAY THE FOLLOWING MESSAGE:

FRAME 1	MEADOW ST CLOSED
FRAME 2	FOLLOW DETOUR 8PM-6AM

3. CMS MESSAGE TO BE THREE (3) LINES MAX. WITH NO MORE THAN EIGHT (8) CHARACTERS PER LINE.

4. CMS BOARDS SHALL BE INSTALLED AT LOCATIONS SHOWN TWO WEEKS PRIOR TO THE RAMP CLOSURES AND DISPLAY RESPECTIVE MESSAGES SHOWN ABOVE.

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 300' 600'
1" = 300'

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP**

TOWN(S): **WATERBURY**

DRAWING TITLE: **DETOUR PLAN - MEADOW STREET CLOSURE**

PROJECT NO.: **0151-0340**

DRAWING NO.: **DTR-01**

SHEET NO.: **07.17**

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_DTR-01_MeadowStreetDetour.dgn
PLOTTED DATE: 8/18/2025

SIGN LEGEND

(A) 80-9707 — DETOUR / EAST
51-6652 — EAST
51-6662 — INTERSTATE 84
51-2685 — ↑

(B) 80-9707 — DETOUR / EAST
51-6652 — EAST
51-6662 — INTERSTATE 84
51-2686R — →

(C) 80-9707 — DETOUR / EAST
51-6652 — EAST
51-6662 — INTERSTATE 84
51-2686L — ←

(D) 80-9708 — END DETOUR

(E) 31-1119 — DO NOT ENTER

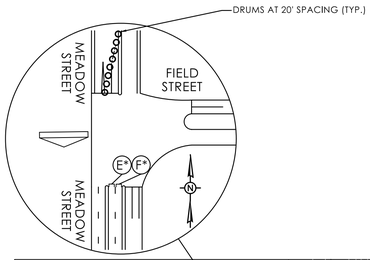
(F) 80-9001 — RAMP CLOSED

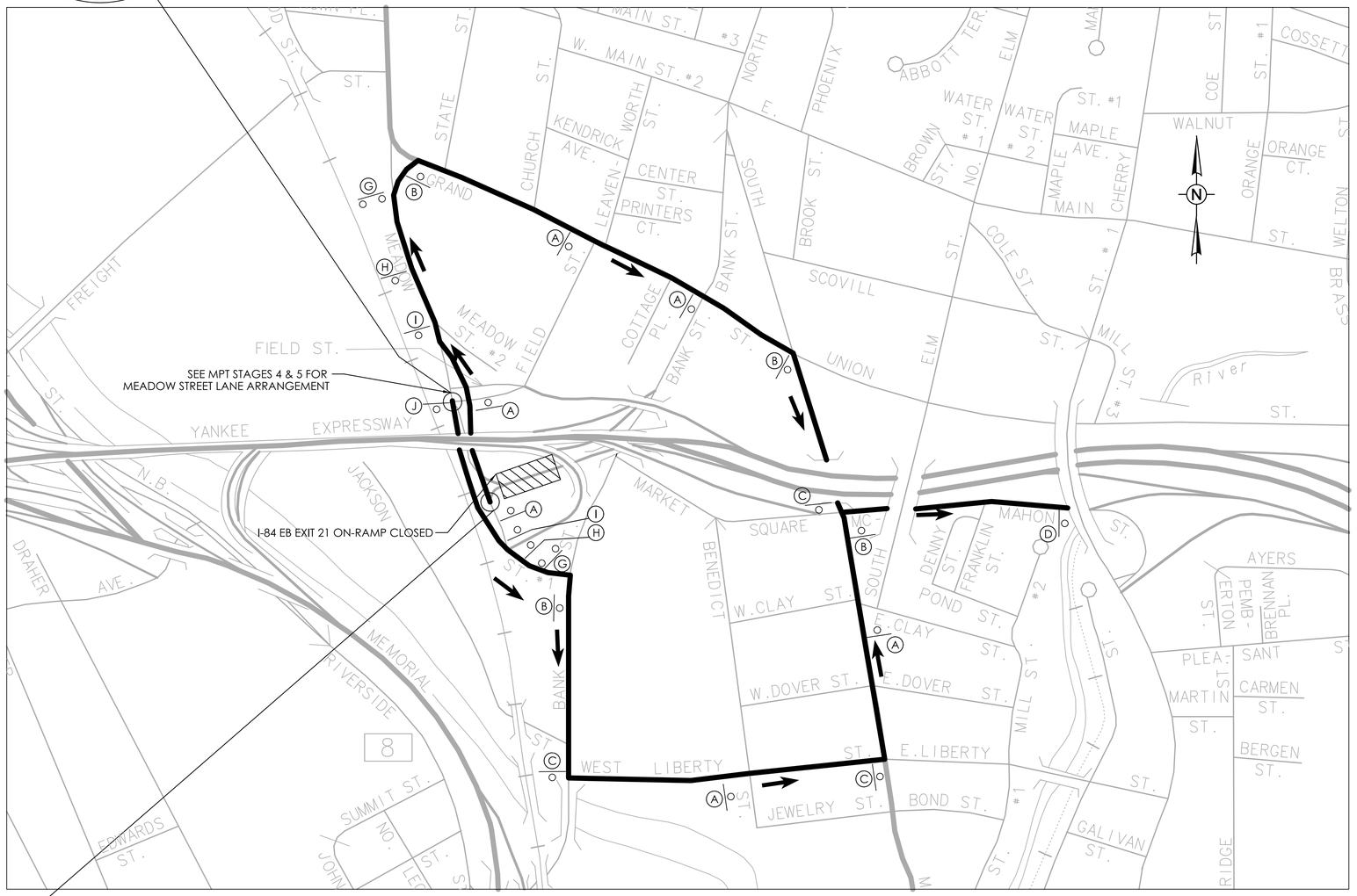
(G) 80-1608 — CONSTRUCTION AHEAD / ROAD USE RESTRICTED / STATE LIABILITY LIMITED

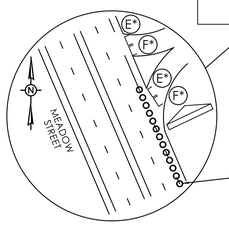
(H) 31-1906 — ROAD WORK AHEAD / FINES DOUBLED

(I) 80-9603 — ROAD WORK AHEAD

(J) 80-9707 — DETOUR / EAST
51-6652 — EAST
51-6652 — INTERSTATE 84
51-2689 — ↗







NOTES

1. THE LOCATIONS OF TEMPORARY SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED TO MEET FIELD CONDITIONS PRIOR TO THE IMPLEMENTATION OF THE DETOUR.

2. ALL EXISTING CONFLICTING SIGNS TO BE COVERED OR REMOVED WHILE DETOUR IS IN EFFECT.

3. DETOUR SIGNS ARE PAYABLE UNDER ITEM NO.1220027A - CONSTRUCTION SIGNS.

4. DETOUR SIGNS ARE TO BE INSTALLED SUCH THAT THEY DO NOT BLOCK OR ARE NOT BLOCKED BY EXISTING SIGNS.

5. DETOUR SIGNS ARE ONLY TO BE POSTED WHILE THE DETOUR IS IN EFFECT. THEY SHALL BE COVERED OR REMOVED WHILE DETOUR IS NOT OPERATIONAL.

6. ANY EXISTING SIGNS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE STATE.

7. ALL CONSTRUCTION / DETOUR SIGNS SHALL BE INSTALLED ON BREAKAWAY POSTS PER CTDOT STANDARD SHEETS TR-1208_01, TR-1208_02, AND TR-1220_02.

8. ACCESS AND EGRESS TO ALL STREETS AND DRIVES MUST BE MAINTAINED AT ALL TIMES.

9. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR SECTION 1.08 - PROSECUTION AND PROGRESS AND ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.

10. TWO WEEKS PRIOR TO INITIATING THE DETOUR; THE CONTRACTOR SHALL INSTALL 2 CMS (ITEM NO. 1131002 - REMOTE CONTROL CHANGEABLE MESSAGE SIGN):
-ONE AT THE INTERSECTION OF MEADOW STREET AND I-84 EB ON-RAMP
-ONE AT THE INTERSECTION OF MEADOW STREET AT FIELD STREET
FINAL LOCATION FOR ALL CMS SHALL BE FIELD VERIFIED BY THE ENGINEER. ALL CMS SHALL REMAIN FOR THE DURATION OF THE DETOUR.

11. ALL DETOUR SIGNS TO BE INSTALLED PRIOR TO THE ROADWAY CLOSURE.

12. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST TWO WEEKS PRIOR TO THE START OF THE ROADWAY CLOSURE. THE ENGINEER WILL THEN NOTIFY THE CITY OF WATERBURY AND ALL EMERGENCY SERVICES.

13. THE CONTRACTOR IS TO MAINTAIN ALL DETOUR SIGNS DURING THE ROADWAY CLOSURE.

14. THE LOCATIONS OF CONSTRUCTION BARRICADES TYPE III SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE INSTALLED FULLY ACROSS THE ROAD AND ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS.

15. ADVANCE SIGNS TO BE ONLY INSTALLED IF THE ADVANCE SIGNS SHOWN ON THE MPT SUBSET ARE NOT IN PLACE WHEN THIS PLAN IS USED.

LEGEND

SIGN POST - MOUNTED SIGN
TWO SIGN POSTS - MOUNTED SIGN
BARRICADE MOUNTED SIGN
CONSTRUCTION BARRICADE TYPE III
CHANGEABLE MESSAGE SIGN
WORK AREA

CHANGEABLE MESSAGE SIGN (CMS) NOTES

1. CMS SHALL DISPLAY THE FOLLOWING MESSAGES PRIOR TO I-84 EB ON-RAMP CLOSURE:

FRAME 1	I-84 EB ON-RAMP TO CLOSE
FRAME 2	DD/MM TO DD/MM 8PM-6AM

2. WHILE DETOUR AND CLOSURE ARE IN EFFECT, CMS SHALL DISPLAY THE FOLLOWING MESSAGE:

FRAME 1	I-84 EB ON-RAMP CLOSED
FRAME 2	FOLLOW DETOUR 8PM-6AM

3. CMS MESSAGE TO BE THREE (3) LINES MAX. WITH NO MORE THAN EIGHT (8) CHARACTERS PER LINE.

4. CMS BOARDS SHALL BE INSTALLED AT LOCATIONS SHOWN TWO WEEKS PRIOR TO THE RAMP CLOSURES AND DISPLAY RESPECTIVE MESSAGES SHOWN ABOVE.

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 300' 600'
1" = 300'

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: DETOUR PLAN - I-84 EB ON-RAMP CLOSURE

PROJECT NO.: 0151-0340

DRAWING NO.: DTR-02

SHEET NO.: 07.18

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_DTR-02_I-84EBOnRamp.dgn
PLOTTED DATE: 8/18/2025

SIGN LEGEND

(A) 80-9707 — DETOUR / WEST
51-6654 — WEST
51-6662 — INTERSTATE 84
51-2685 — ↑

(B) 80-9707 — DETOUR / WEST
51-6654 — WEST
51-6662 — INTERSTATE 84
51-2686R — →

(C) 80-9707 — DETOUR / WEST
51-6654 — WEST
51-6662 — INTERSTATE 84
51-2686L — ←

(D) 80-9708 — END DETOUR

(E) 31-1119 — DO NOT ENTER

(F) 80-9001 — RAMP CLOSED

(G) 80-1608 — CONSTRUCTION AHEAD
ROAD USE RESTRICTED
STATE LIABILITY LIMITED
MANUAL REVISED DEC. 16 - 18, 19 - 148
COMMISSIONER OF TRANSPORTATION

(H) 31-1906 — ROAD WORK AHEAD
FINES DOUBLED

(I) 80-9603 — ROAD WORK AHEAD

(J) 80-9707 — DETOUR / WEST
51-6654 — WEST
51-6662 — INTERSTATE 84
51-2688 — ↖

(K) 80-9707 — DETOUR / WEST
51-6658 — WEST
51-6666 — INTERSTATE 84
51-2614 — ↗



NOTES

1. THE LOCATIONS OF TEMPORARY SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED TO MEET FIELD CONDITIONS PRIOR TO THE IMPLEMENTATION OF THE DETOUR.

2. ALL EXISTING CONFLICTING SIGNS TO BE COVERED OR REMOVED WHILE DETOUR IS IN EFFECT.

3. DETOUR SIGNS ARE PAYABLE UNDER ITEM NO.1220027A - CONSTRUCTION SIGNS.

4. DETOUR SIGNS ARE TO BE INSTALLED SUCH THAT THEY DO NOT BLOCK OR ARE NOT BLOCKED BY EXISTING SIGNS.

5. DETOUR SIGNS ARE ONLY TO BE POSTED WHILE THE DETOUR IS IN EFFECT. THEY SHALL BE COVERED OR REMOVED WHILE DETOUR IS NOT OPERATIONAL.

6. ANY EXISTING SIGNS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE STATE.

7. ALL CONSTRUCTION / DETOUR SIGNS SHALL BE INSTALLED ON BREAKAWAY POSTS PER CTDOT STANDARD SHEETS TR-1208_01, TR-1208_02, AND TR-1220_02.

8. ACCESS AND EGRESS TO ALL STREETS AND DRIVES MUST BE MAINTAINED AT ALL TIMES.

9. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR SECTION 1.08 - PROSECUTION AND PROGRESS AND ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.

10. TWO WEEKS PRIOR TO INITIATING THE DETOUR; THE CONTRACTOR SHALL INSTALL ONE CMS (ITEM NO. 1131002 - REMOTE CONTROL CHANGEABLE MESSAGE SIGN) AT THE INTERSECTION OF -BANK STREET AT I-84 WB ON-RAMP.
-FINAL LOCATION FOR ALL CMS SHALL BE FIELD VERIFIED BY THE ENGINEER. ALL CMS SHALL REMAIN FOR THE DURATION OF THE DETOUR.

11. ALL DETOUR SIGNS TO BE INSTALLED PRIOR TO THE ROADWAY CLOSURE.

12. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST TWO WEEKS PRIOR TO THE START OF THE ROADWAY CLOSURE. THE ENGINEER WILL THEN NOTIFY THE CITY OF WATERBURY AND ALL EMERGENCY SERVICES.

13. THE CONTRACTOR IS TO MAINTAIN ALL DETOUR SIGNS DURING THE ROADWAY CLOSURE.

14. THE LOCATIONS OF CONSTRUCTION BARRICADES TYPE III SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE INSTALLED FULLY ACROSS THE ROAD AND ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS.

15. ADVANCE SIGNS TO BE ONLY INSTALLED IF THE ADVANCE SIGNS SHOWN ON THE MPT SUBSET ARE NOT IN PLACE WHEN THIS PLAN IS USED.

LEGEND

SIGN POST - MOUNTED SIGN
TWO SIGN POSTS - MOUNTED SIGN
BARRICADE MOUNTED SIGN
CONSTRUCTION BARRICADE TYPE III
CHANGEABLE MESSAGE SIGN
WORK AREA

CHANGEABLE MESSAGE SIGN (CMS) NOTES

1. CMS SHALL DISPLAY THE FOLLOWING MESSAGES PRIOR TO I-84 WB ON-RAMP CLOSURE:

FRAME 1	I-84 WB ON-RAMP TO CLOSE
FRAME 2	DD/MM TO DD/MM 8PM-6AM

2. WHILE DETOUR AND CLOSURE ARE IN EFFECT, CMS SHALL DISPLAY THE FOLLOWING MESSAGE:

FRAME 1	I-84 WB ON-RAMP CLOSED
FRAME 2	FOLLOW DETOUR 8PM-6AM

3. CMS MESSAGE TO BE THREE (3) LINES MAX. WITH NO MORE THAN EIGHT (8) CHARACTERS PER LINE.

4. CMS BOARDS SHALL BE INSTALLED AT LOCATIONS SHOWN TWO WEEKS PRIOR TO THE RAMP CLOSURES AND DISPLAY RESPECTIVE MESSAGES SHOWN ABOVE.

REV. | DATE | REVISION DESCRIPTION

SIGNATURE BLOCK: M. Kurker, Bl Companies, 200 Executive Blvd, Southington, CT 06489, 860-628-4949

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 300' 600'
1" = 300'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: DETOUR PLAN - I-84 WB ON-RAMP CLOSURE

PROJECT NO.: 0151-0340

DRAWING NO.: DTR-03

SHEET NO.: 07.19

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_DTR-03_I-84WBOnRamp.dgn
PLOTTED DATE: 8/18/2025

SIGN LEGEND

(A) 80-1608 — CONSTRUCTION AHEAD / ROAD USE RESTRICTED / STATE LIABILITY LIMITED

(B) 31-1906 — ROAD WORK AHEAD / FINES DOUBLED

(C) 80-9603 — ROAD WORK AHEAD

(D) 80-9916 — Field St / DETOUR →

80-9710R

(E) 80-9916 — Field St / DETOUR ←

80-9710L

(F) 80-9916 — Field St / DETOUR ↑

80-9710V

(G) 80-9916 — Field St / END DETOUR

80-9708

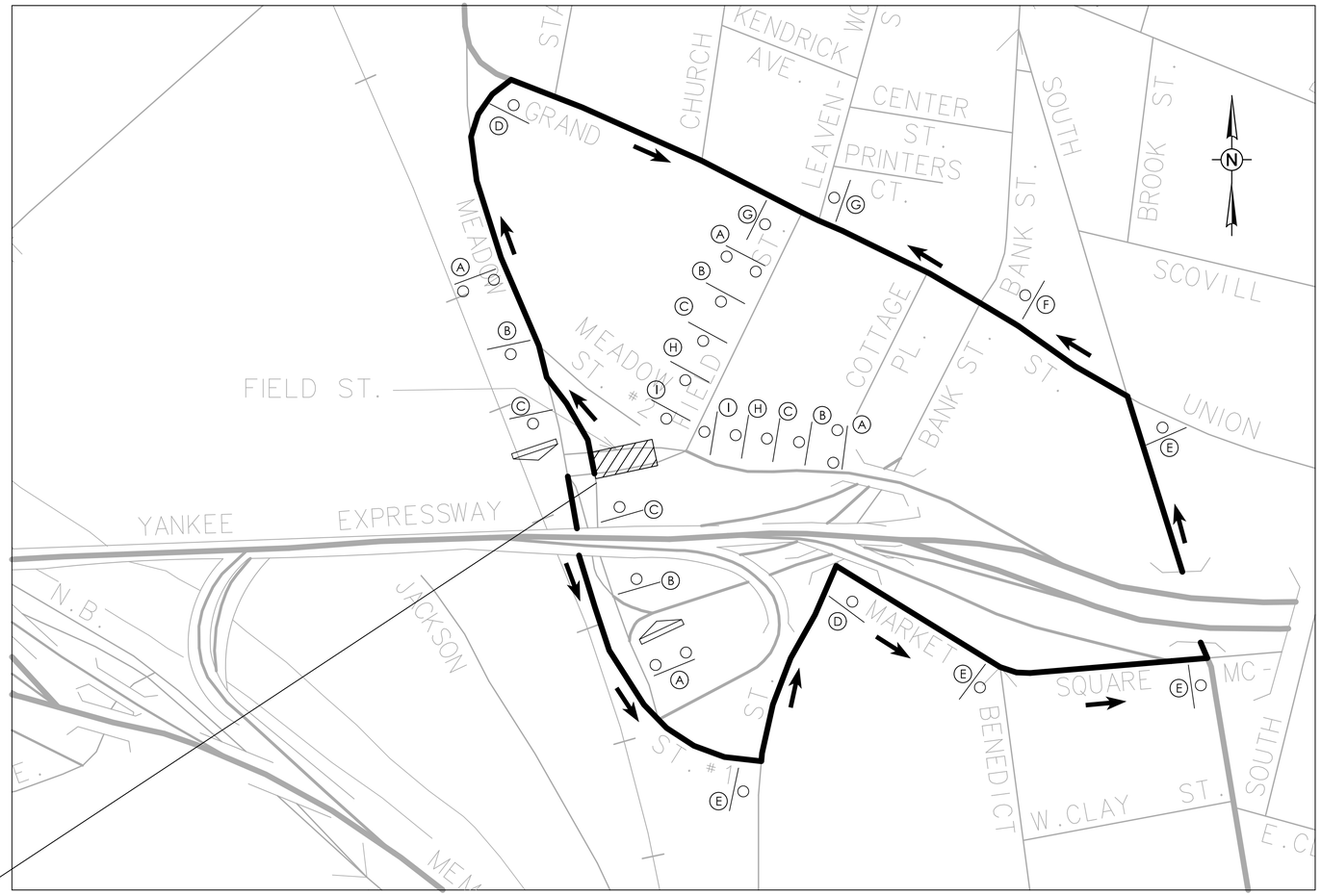
(H) 80- 9834 — ONE LANE ROAD AHEAD

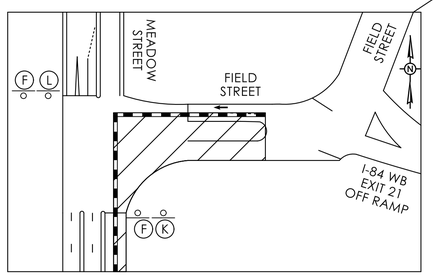
(I) 80-9933 — ROAD NARROWS

(J) 80-9431

(K) 31-1627

(L) 31-1629





NOTES

1. THE LOCATIONS OF TEMPORARY SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED TO MEET FIELD CONDITIONS PRIOR TO THE IMPLEMENTATION OF THE DETOUR.

2. ALL EXISTING CONFLICTING SIGNS TO BE COVERED OR REMOVED WHILE DETOUR IS IN EFFECT.

3. DETOUR SIGNS ARE PAYABLE UNDER ITEM NO.1220027A - CONSTRUCTION SIGNS.

4. DETOUR SIGNS ARE TO BE INSTALLED SUCH THAT THEY DO NOT BLOCK OR ARE NOT BLOCKED BY EXISTING SIGNS.

5. DETOUR SIGNS ARE ONLY TO BE POSTED WHILE THE DETOUR IS IN EFFECT. THEY SHALL BE COVERED OR REMOVED WHILE DETOUR IS NOT OPERATIONAL.

6. ANY EXISTING SIGNS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE STATE.

7. ALL CONSTRUCTION / DETOUR SIGNS SHALL BE INSTALLED ON BREAKAWAY POSTS PER CTDOT STANDARD SHEETS TR-1208_01, TR-1208_02, AND TR-1220_02.

8. ACCESS AND EGRESS TO ALL STREETS AND DRIVES MUST BE MAINTAINED AT ALL TIMES.

9. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR SECTION 1.08 - PROSECUTION AND PROGRESS AND ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.

10. TWO WEEKS PRIOR TO INITIATING THE DETOUR; THE CONTRACTOR SHALL INSTALL TWO CMS (ITEM NO. 1131002 - REMOTE CONTROL CHANGEABLE MESSAGE SIGN):
-ONE AT THE INTERSECTION OF MEADOW STREET AT FIELD STREET.
-ONE AT THE INTERSECTION OF MEADOW STREET AT I-84 EB ON-RAMP.
-FINAL LOCATION FOR ALL CMS SHALL BE FIELD VERIFIED BY THE ENGINEER. ALL CMS SHALL REMAIN FOR THE DURATION OF THE DETOUR.

11. ALL DETOUR SIGNS TO BE INSTALLED PRIOR TO THE ROADWAY CLOSURE.

12. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST TWO WEEKS PRIOR TO THE START OF THE ROADWAY CLOSURE. THE ENGINEER WILL THEN NOTIFY THE CITY OF WATERBURY AND ALL EMERGENCY SERVICES.

13. THE CONTRACTOR IS TO MAINTAIN ALL DETOUR SIGNS DURING THE ROADWAY CLOSURE.

14. THE LOCATIONS OF CONSTRUCTION BARRICADES TYPE III SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE INSTALLED FULLY ACROSS THE ROAD AND ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS.

15. ADVANCE SIGNS TO BE ONLY INSTALLED IF THE ADVANCE SIGNS SHOWN ON THE MPT SUBSET ARE NOT IN PLACE WHEN THIS PLAN IS USED.

LEGEND

- SIGN POST - MOUNTED SIGN
- TWO SIGN POSTS - MOUNTED SIGN
- BARRICADE MOUNTED SIGN
- CONSTRUCTION BARRICADE TYPE III
- CHANGEABLE MESSAGE SIGN
- WORK AREA

CHANGEABLE MESSAGE SIGN (CMS) NOTES

1. CMS SHALL DISPLAY THE FOLLOWING MESSAGES PRIOR TO THE FIELD STREET CLOSURE:

FRAME 1	FIELD ST EB TO CLOSE
FRAME 2	DD/MM TO DD/MM 8PM-6AM

2. WHILE DETOUR AND CLOSURE ARE IN EFFECT, CMS SHALL DISPLAY THE FOLLOWING MESSAGE:

FRAME 1	FIELD ST EB CLOSED
FRAME 2	FOLLOW DETOUR 8PM-6AM

3. CMS MESSAGE TO BE THREE (3) LINES MAX. WITH NO MORE THAN EIGHT (8) CHARACTERS PER LINE.

4. CMS BOARDS SHALL BE INSTALLED AT LOCATIONS SHOWN TWO WEEKS PRIOR TO THE RAMP CLOSURES AND DISPLAY RESPECTIVE MESSAGES SHOWN ABOVE.

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK: Michael S. Weber, BL Companies, 355 Research Place, Bethlehem, PA 18015, 2025

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 200' 400'
1" = 200'

CTDOT — CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP**

TOWN(S): **WATERBURY**

DRAWING TITLE: **DETOUR PLAN - FIELD STREET EB CLOSURE**

PROJECT NO.: **0151-0340**

DRAWING NO.: **DTR-04**

SHEET NO.: **07.20**

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_DTR-04_FieldStreet.dgn
PLOTTED DATE: 8/18/2025

SIGN LEGEND

Ⓐ 80-1608 — CONSTRUCTION AHEAD / ROAD USE RESTRICTED / STATE LIABILITY LIMITED

Ⓑ 31-1906 — ROAD WORK AHEAD / FINES DOUBLED

Ⓒ 80-9603 — ROAD WORK AHEAD

Ⓓ 51-6670 — TRUCK
80-9916 — Field St
80-9710R — DETOUR →

Ⓔ 51-6670 — TRUCK
80-9916 — Field St
80-9710VL — DETOUR ↖

Ⓕ 51-6670 — TRUCK
80-9916 — Field St
80-9710V — DETOUR ↑

Ⓖ 51-6670 — TRUCK
80-9916 — Field St
80-9708 — END DETOUR

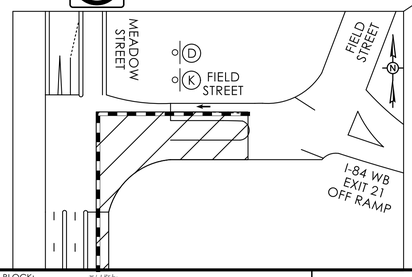
Ⓗ 80-9852 — ONE LANE ROAD AHEAD

Ⓘ 80-9922 — ROAD NARROWS

Ⓙ 80-9413

Ⓚ 51-6670 — TRUCK
31-1629





NOTES

1. THE LOCATIONS OF TEMPORARY SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED TO MEET FIELD CONDITIONS PRIOR TO THE IMPLEMENTATION OF THE DETOUR.

2. ALL EXISTING CONFLICTING SIGNS TO BE COVERED OR REMOVED WHILE DETOUR IS IN EFFECT.

3. DETOUR SIGNS ARE PAYABLE UNDER ITEM NO.1220027A - CONSTRUCTION SIGNS.

4. DETOUR SIGNS ARE TO BE INSTALLED SUCH THAT THEY DO NOT BLOCK OR ARE NOT BLOCKED BY EXISTING SIGNS.

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6. ANY EXISTING SIGNS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE STATE.

7. ALL CONSTRUCTION / DETOUR SIGNS SHALL BE INSTALLED ON BREAKAWAY POSTS PER CTDOT STANDARD SHEETS TR-1208_01, TR-1208_02, AND TR-1220_02.

8. ACCESS AND EGRESS TO ALL STREETS AND DRIVES MUST BE MAINTAINED AT ALL TIMES.

9. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR SECTION 1.08 - PROSECUTION AND PROGRESS AND ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.

10. TWO WEEKS PRIOR TO INITIATING THE DETOUR; THE CONTRACTOR SHALL INSTALL TWO CMS (ITEM NO. 1131002 - REMOTE CONTROL CHANGEABLE MESSAGE SIGN):
-ONE AT THE INTERSECTION OF MEADOW STREET AT FIELD STREET.
-ONE AT THE INTERSECTION OF MEADOW STREET AT I-84 EB ON-RAMP.
-FINAL LOCATION FOR ALL CMS SHALL BE FIELD VERIFIED BY THE ENGINEER. ALL CMS SHALL REMAIN FOR THE DURATION OF THE DETOUR.

11. ALL DETOUR SIGNS TO BE INSTALLED PRIOR TO THE ROADWAY CLOSURE.

12. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST TWO WEEKS PRIOR TO THE START OF THE ROADWAY CLOSURE. THE ENGINEER WILL THEN NOTIFY THE CITY OF WATERBURY AND ALL EMERGENCY SERVICES.

13. THE CONTRACTOR IS TO MAINTAIN ALL DETOUR SIGNS DURING THE ROADWAY CLOSURE.

14. THE LOCATIONS OF CONSTRUCTION BARRICADES TYPE III SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE INSTALLED FULLY ACROSS THE ROAD AND ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS.

15. ADVANCE SIGNS TO BE ONLY INSTALLED IF THE ADVANCE SIGNS SHOWN ON THE MPT SUBSET ARE NOT IN PLACE WHEN THIS PLAN IS USED.

LEGEND

SIGN POST - MOUNTED SIGN

TWO SIGN POSTS - MOUNTED SIGN

BARRICADE MOUNTED SIGN *

CONSTRUCTION BARRICADE TYPE III

CHANGEABLE MESSAGE SIGN

WORK AREA

CHANGEABLE MESSAGE SIGN (CMS) NOTES

1. CMS SHALL DISPLAY THE FOLLOWING MESSAGES PRIOR TO THE FIELD STREET CLOSURE:

FRAME 1	FIELD ST EB TO CLOSE
FRAME 2	DD/MM TO DD/MM 8PM-6AM

2. WHILE DETOUR AND CLOSURE ARE IN EFFECT, CMS SHALL DISPLAY THE FOLLOWING MESSAGE:

FRAME 1	FIELD ST EB CLOSED
FRAME 2	FOLLOW DETOUR 8PM-6AM

3. CMS MESSAGE TO BE THREE (3) LINES MAX. WITH NO MORE THAN EIGHT (8) CHARACTERS PER LINE.

4. CMS BOARDS SHALL BE INSTALLED AT LOCATIONS SHOWN TWO WEEKS PRIOR TO THE RAMP CLOSURES AND DISPLAY RESPECTIVE MESSAGES SHOWN ABOVE.

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 200' 400'
1" = 200'

CTDOT — CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: DETOUR PLAN - FIELD STREET EB CLOSURE - TRUCK DETOUR

PROJECT NO.: 0151-0340

DRAWING NO.: DTR-05

SHEET NO.: 07.21

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_DTR-05_Field StreetTruckDetour.dgn
PLOTTED DATE: 8/18/2025

PAVEMENT MARKING NOTES

1. FINAL PAVEMENT MARKINGS ALONG I-84 EASTBOUND, ON RAMP FROM ROUTE 8 NB, AND EXIT 22 OFF-RAMP SHALL BE PAID FOR UNDER ITEM NO. 121011xA - XX" (WHITE/YELLOW) TYPE I EPOXY RESIN PAVEMENT MARKINGS.
2. FINAL PAVEMENT MARKINGS ALONG ALL OTHER ROADWAYS SHALL BE PAID FOR UNDER ITEM NO. 121010x - XX" WHITE/YELLOW EPOXY RESIN PAVEMENT MARKINGS.
3. INSTALL PAVEMENT MARKINGS THROUGHOUT PROJECT AREA TO LIMITS OF PAVEMENT MARKINGS AS INDICATED ON PLAN OR AS DIRECTED BY THE ENGINEER. ALL CONFLICTING PAVEMENT MARKINGS WITHIN THE LIMITS SHALL BE REMOVED. THE REMOVAL OF PAVEMENT MARKINGS IS PAYABLE UNDER ITEM NO. 1211001 "REMOVAL OF PAVEMENT MARKINGS".
4. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SHEETS:
   TR-1210_05 AND TR-1210_06 - PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS
   TR-1210_07 - PAVEMENT MARKINGS FOR EXIT RAMPS
   TR-1210_08 - PAVEMENT MARKINGS FOR NON FREEWAYS
5. ALL PERMANENT PAVEMENT MARKINGS ALONG STATE MAINTAINED ROADWAYS (I-84 EASTBOUND, ON-RAMP FROM ROUTE 8 NB, AND EXIT 22 OFF-RAMP) SHALL BE INSTALLED WITH 80 MIL PAVEMENT MARKING GROOVE (ITEM NOS. 0406314A, 0406315A, 0406316A, AND 0406317A) DEPENDING ON THE MARKING WIDTH. ALL NON-STATE MAINTAINED ROADWAYS, AND SR 847 (SOUTH MAIN STREET), SHALL NOT BE INSTALLED IN 80 MIL PAVEMENT MARKING GROOVES.
6. SHARED LANE SYMBOL PAVEMENT MARKINGS AND ROADSIDE PARKING LANE MARKINGS ALONG SR 847 (SOUTH MAIN STREET) SHALL BE MAINTAINED BY THE CITY OF WATERBURY.
7. CROSSWALKS LOCATED ON THE FOLLOWING STREETS ARE MAINTAINED BY THE CITY OF WATERBURY: BANK STREET, BENEDICT STREET, EAST CLAY STREET, WEST CLAY STREET, WEST DOVER STREET, EAST DOVER STREET, SOUTH ELM STREET, FREIGHT STREET, WEST LIBERTY STREET, EAST LIBERTY STREET, MARKET SQUARE, MCMAHON STREET, MEADOW STREET.
8. CROSSWALKS LOCATED ON THE FOLLOWING STREETS ARE MAINTAINED BY THE STATE OF CONNECTICUT: SR 847 (SOUTH MAIN STREET), SR 847 (GRAND STREET), SR 847 (MEADOW STREET).
9. ALL OTHER CROSSWALKS ARE TO BE MAINTAINED BY THE PROPERTY OWNERS.

SIGNING NOTES

1. REMOVE ALL EXISTING SHEET ALUMINUM SIGNS WITHIN THE LIMITS OF SIGNING UNLESS OTHERWISE NOTED.
2. ALL PROPOSED SHEET ALUMINUM SIGNS AND POSTS SHALL BE PAID FOR UNDER ITEM NO. 1208931A - SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING) AND ITEM NO. 1208937A - SIGN FACE - SHEET ALUMINUM (TYPE XI RETROREFLECTIVE SHEETING).
3. ALL PROPOSED OVERHEAD AND SIDE MOUNTED EXTRUDED ALUMINUM SIGNS SHALL BE PAID FOR UNDER ITEM NO. 1207041A - SIGN FACE - EXTRUDED ALUMINUM (TYPE XI RETROREFLECTIVE SHEETING).
4. REMOVAL OF EXISTING (SHEET ALUMINUM SIGNS, SIDE MOUNTED EXTRUDED ALUMINUM SIGNS, SIGN SUPPORTS, AND FOUNDATIONS) SHALL BE PAID FOR UNDER ITEM NO. 1206023A - REMOVAL AND RELOCATION OF EXISTING SIGNS AND ITEM NO. 1206025A - REMOVAL AND RELOCATION OF EXISTING OVERHEAD SIGNS.
5. SIGNS SHALL NOT BE PLACED WITHIN 10 FEET OF ANY UTILITY POLE.
6. CONTACT "CALL BEFORE YOU DIG" AT 811 PRIOR TO THE INSTALLATION OF ANY NEW SIGNS
7. "NIC" DENOTES "NOT IN CONTRACT." SIGN IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXISTING SIGN TO REMAIN.
8. ALL "NO PARKING " SIGNS TO BE ERECTED AT AN ANGLE OF 30 DEGREES TO 45 DEGREES TO ADJACENT TRAVEL WAY.
9. INSTALL DELINEATORS WITHIN THE LIMITS OF SIGNING ON I-84 RAMPS AND SHALL BE PAID FOR UNDER ITEM NO. 1205XXX - TYPE DE-XX DELINEATOR. REMOVE EXISITING DELINEATORS IN AREAS WHERE NEW ONES ARE INSTALLED. INSTALL DELINEATORS IN ACCORDANCE WITH CTDOT GUIDE SHEET TR-GS_06.
10. SEE SHEET TXCS-09 FOR REVISION TO SIGN PANEL C ON SIGN SUPPORT NO. 20416.

GENERAL NOTES

1. SEE STANDARD DETAIL SHEETS TR-1210_04, TR-1210_05, TR-1210_06, TR-1210_08 AND TR-1210_09 FOR PAVEMENT MARKING DETAILS.
2. SEE STANDARD DETAIL SHEETS TR-1208_01 AND TR-1208_02 FOR SIGN PLACEMENT AND MOUNTING DETAILS.
3. SEE HIGHWAY SUBSET DWG. NO. MDS-01 FOR DECORATIVE CROSSWALK DETAIL.
4. SEE SEPARATE TRAFFIC SIGNAL PLANS FOR EXACT LOCATIONS OF MAST ARM/SPAN MOUNTED SIGNS.

SIGNING STANDARD CONVENTIONS

OVERHEAD INSTALLATION

SIDE MOUNTED INSTALLATION

SINGLE POST MOUNTING (SHEET ALUMINUM SIGN ASSEMBLY)

DOUBLE POST MOUNTING (SHEET ALUMINUM SIGN ASSEMBLY)

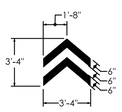
000X-000-00.00 | X

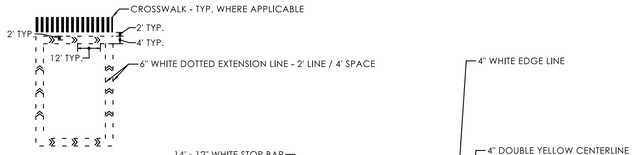
000X = ROUTE WITH CARDINAL DIRECTION
000 = TOWN NUMBER
00.00 = APPROXIMATE MILEPOST
X = SIGN LETTER PER LOCATION

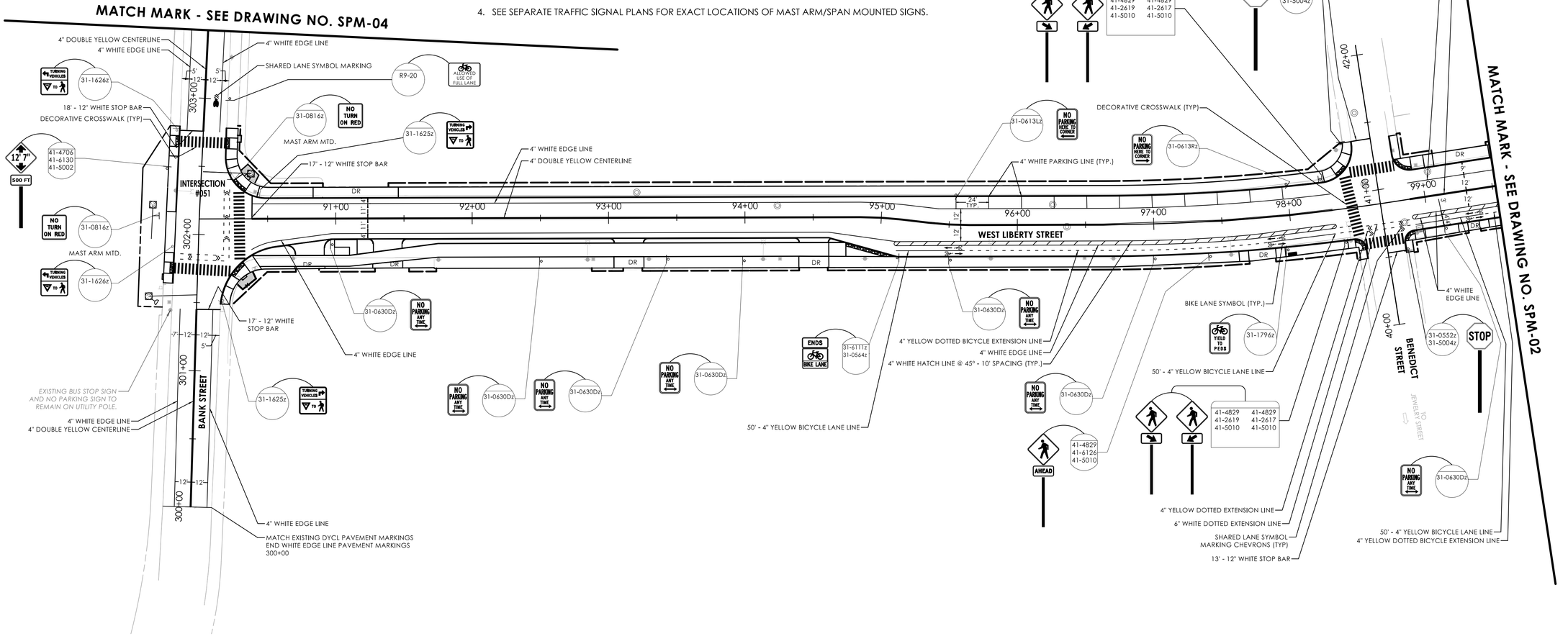
0 / 00-0000

LOCATION NO.
SIGN NO.

STANDARD DETAIL - BIKEWAY DESIGN







COORDINATE GRID
NAD 83
CONNECTICUT

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80'
HORIZONTAL SCALE 1" = 40'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: SIGNING AND PAVEMENT MARKING PLAN

PROJECT NO.: 0151-0340

DRAWING NO.: SPM-01

SHEET NO.: 07.22

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SignsPavMarking-01.dgn
PLOTTED DATE: 8/18/2025

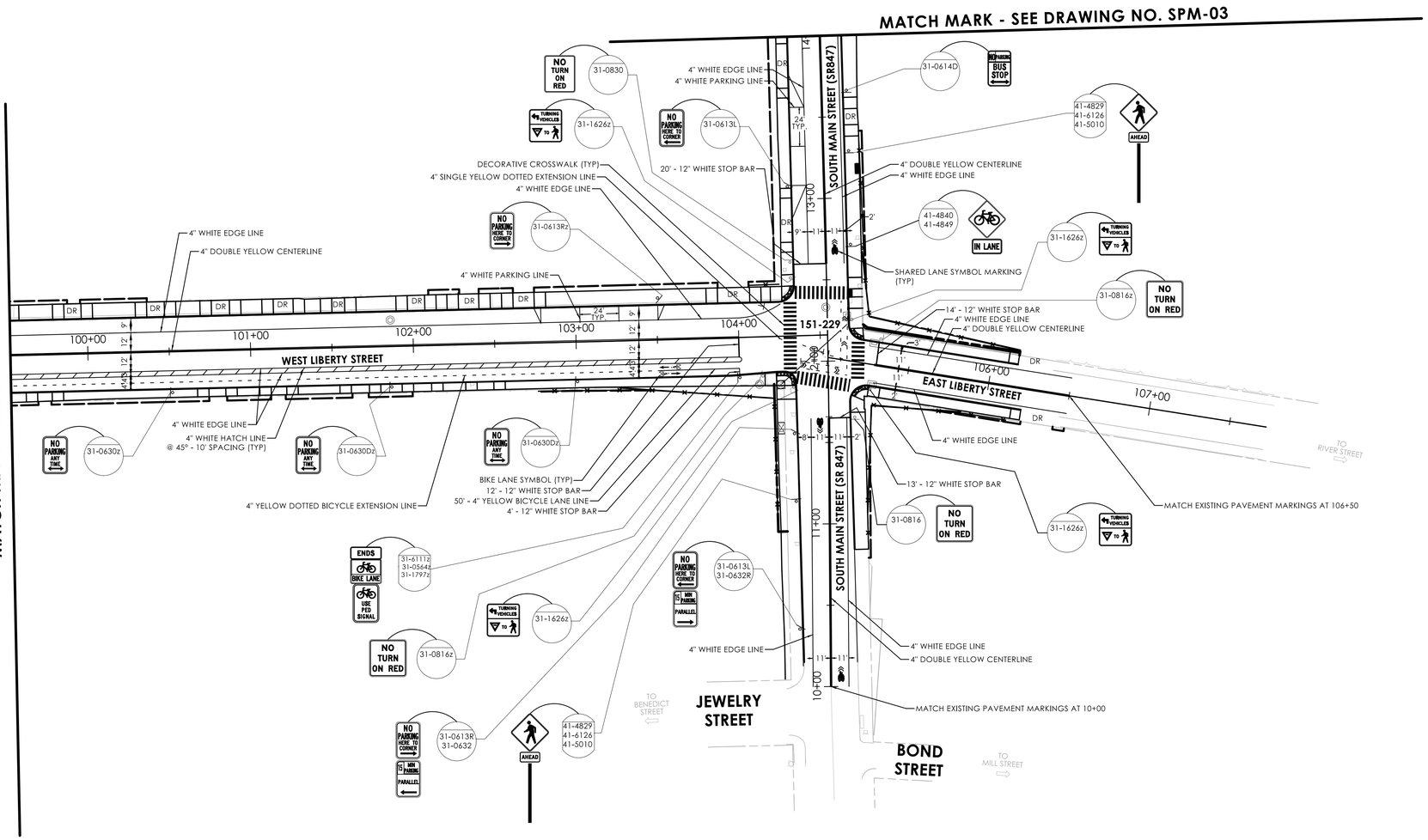
GENERAL NOTES

1. REFERENCE SPM-01 FOR GENERAL NOTES, SIGNING NOTES, AND PAVEMENT MARKING NOTES.

COORDINATE GRID
NAD 83
CONNECTICUT

MATCH MARK - SEE DRAWING NO. SPM-01

MATCH MARK - SEE DRAWING NO. SPM-03



REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: S. SEPERACK

0 40' 80'
HORIZONTAL SCALE 1" = 40'

CTDOT
CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: SIGNING AND PAVEMENT MARKING PLAN

PROJECT NO.: 0151-0340

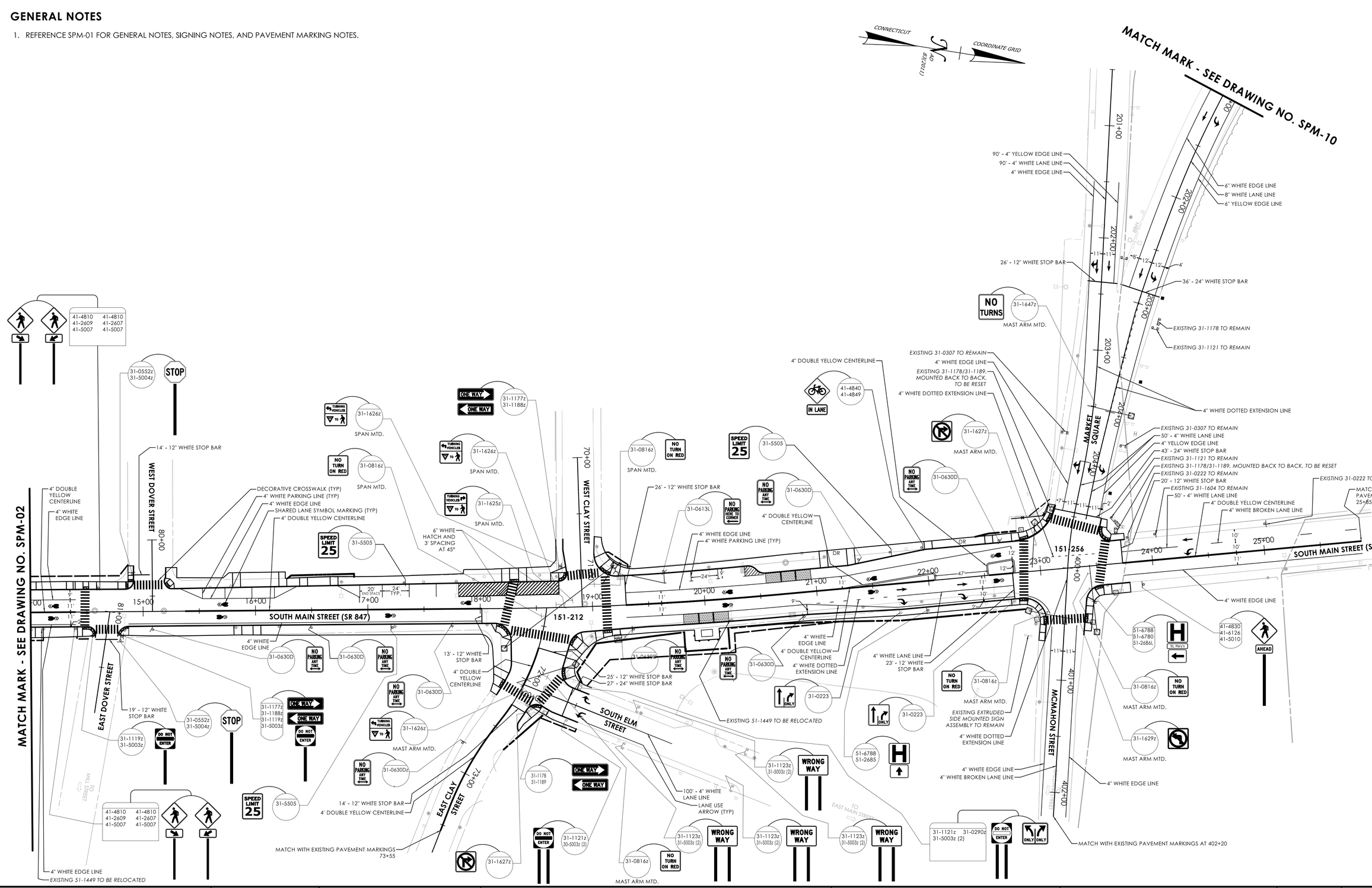
DRAWING NO.: SPM-02

SHEET NO.: 07.23

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PLOTTED DATE: 8/18/2025

GENERAL NOTES

1. REFERENCE SPM-01 FOR GENERAL NOTES, SIGNING NOTES, AND PAVEMENT MARKING NOTES.



REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80'
HORIZONTAL SCALE
1" = 40'

CTDOT
CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: SIGNING AND PAVEMENT MARKING PLAN

PROJECT NO.: 0151-0340

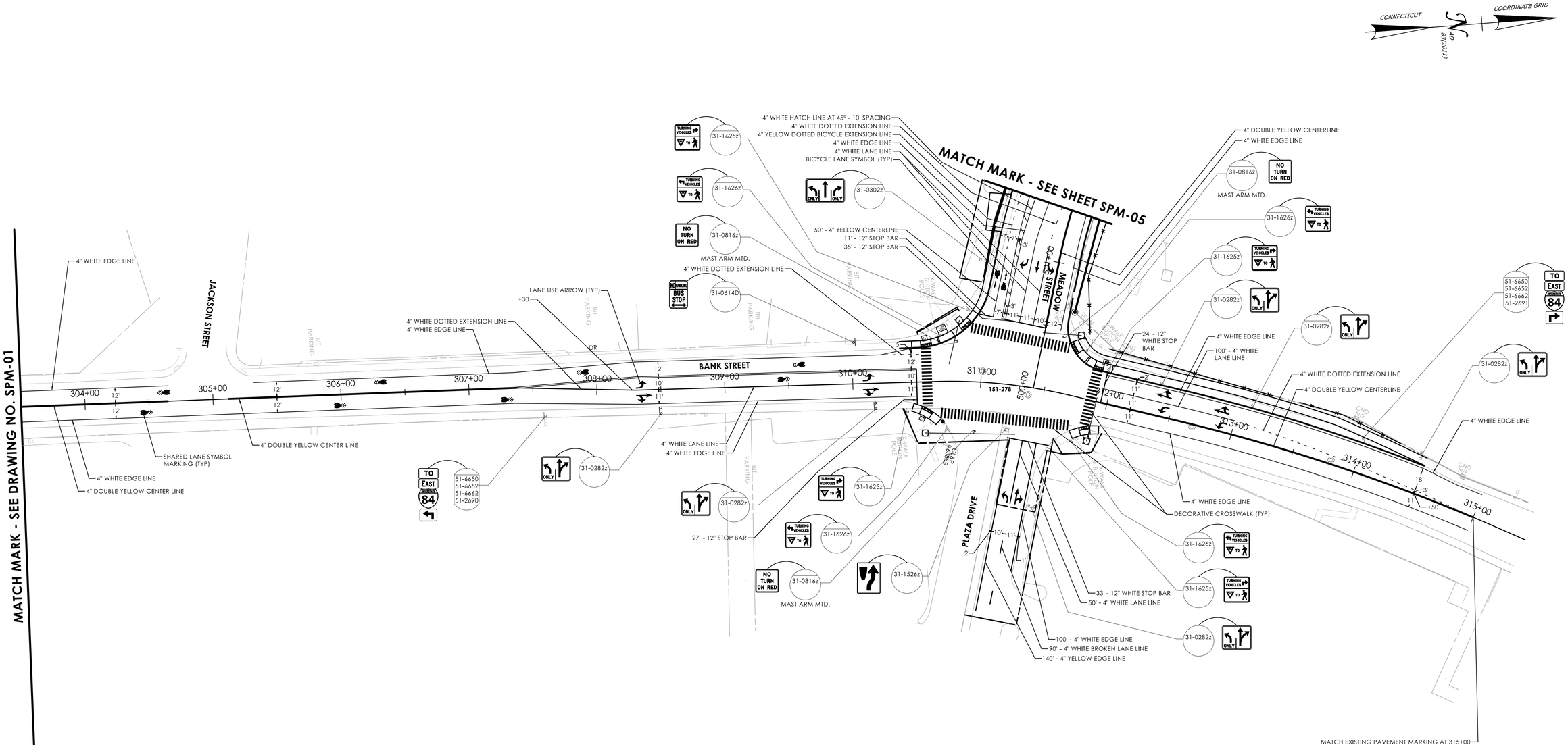
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SHEET NO.: 07.24

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PLOTTED DATE: 8/18/2025

GENERAL NOTES

1. REFERENCE SPM-01 FOR GENERAL NOTES, SIGNING NOTES, AND PAVEMENT MARKING NOTES.



REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80'
HORIZONTAL SCALE
1" = 40'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: SIGNING AND PAVEMENT MARKING PLAN

PROJECT NO.: 0151-0340

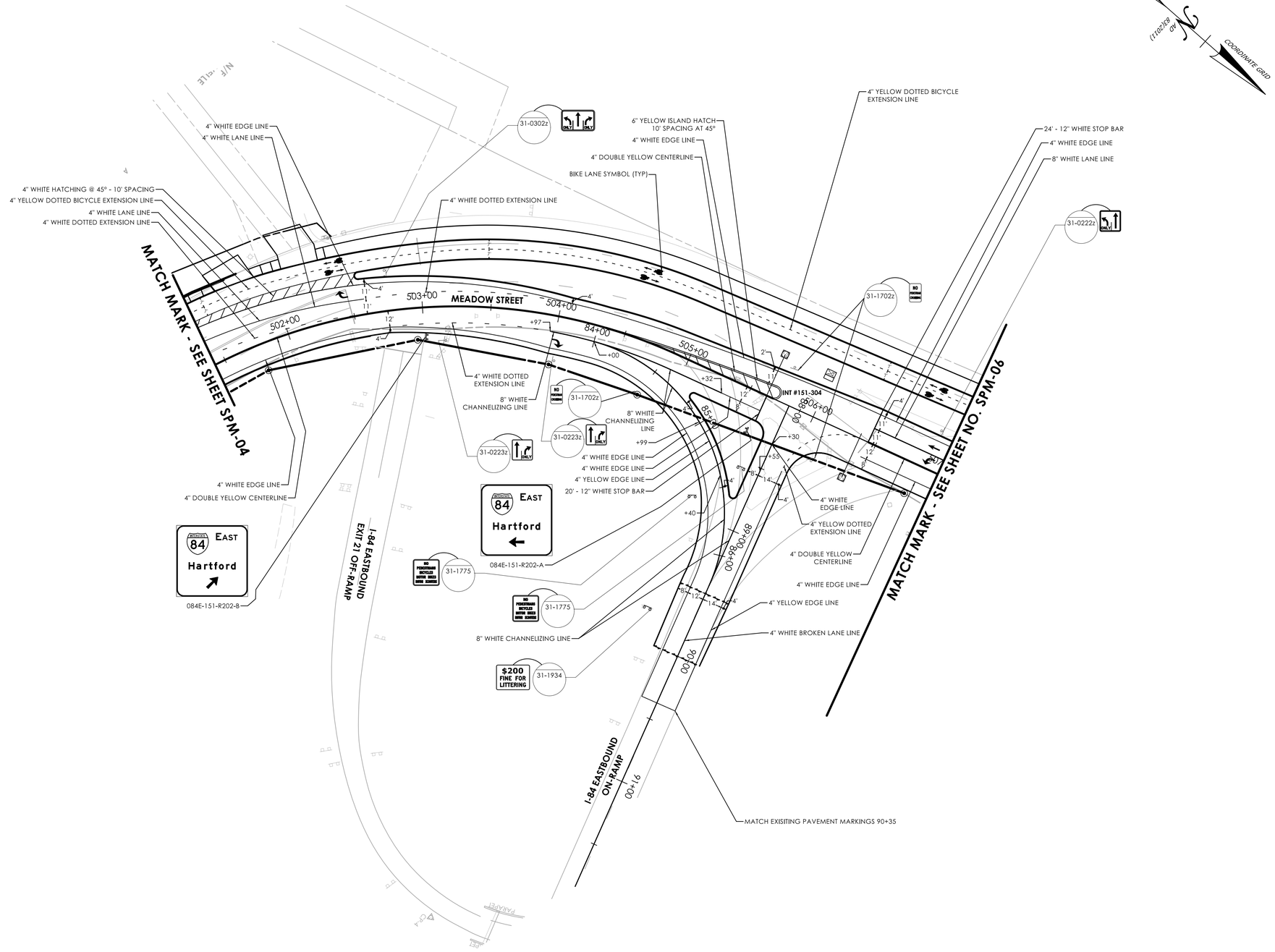
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SHEET NO.: 07.25

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PLOTTED DATE: 8/18/2025

GENERAL NOTES

1. REFERENCE SPM-01 FOR GENERAL NOTES, SIGNING NOTES, AND PAVEMENT MARKING NOTES.



REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80'
HORIZONTAL SCALE
1" = 40'

CTDOT
CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S):
WATERBURY

DRAWING TITLE:
SIGNING AND PAVEMENT MARKING PLAN

PROJECT NO.:
0151-0340

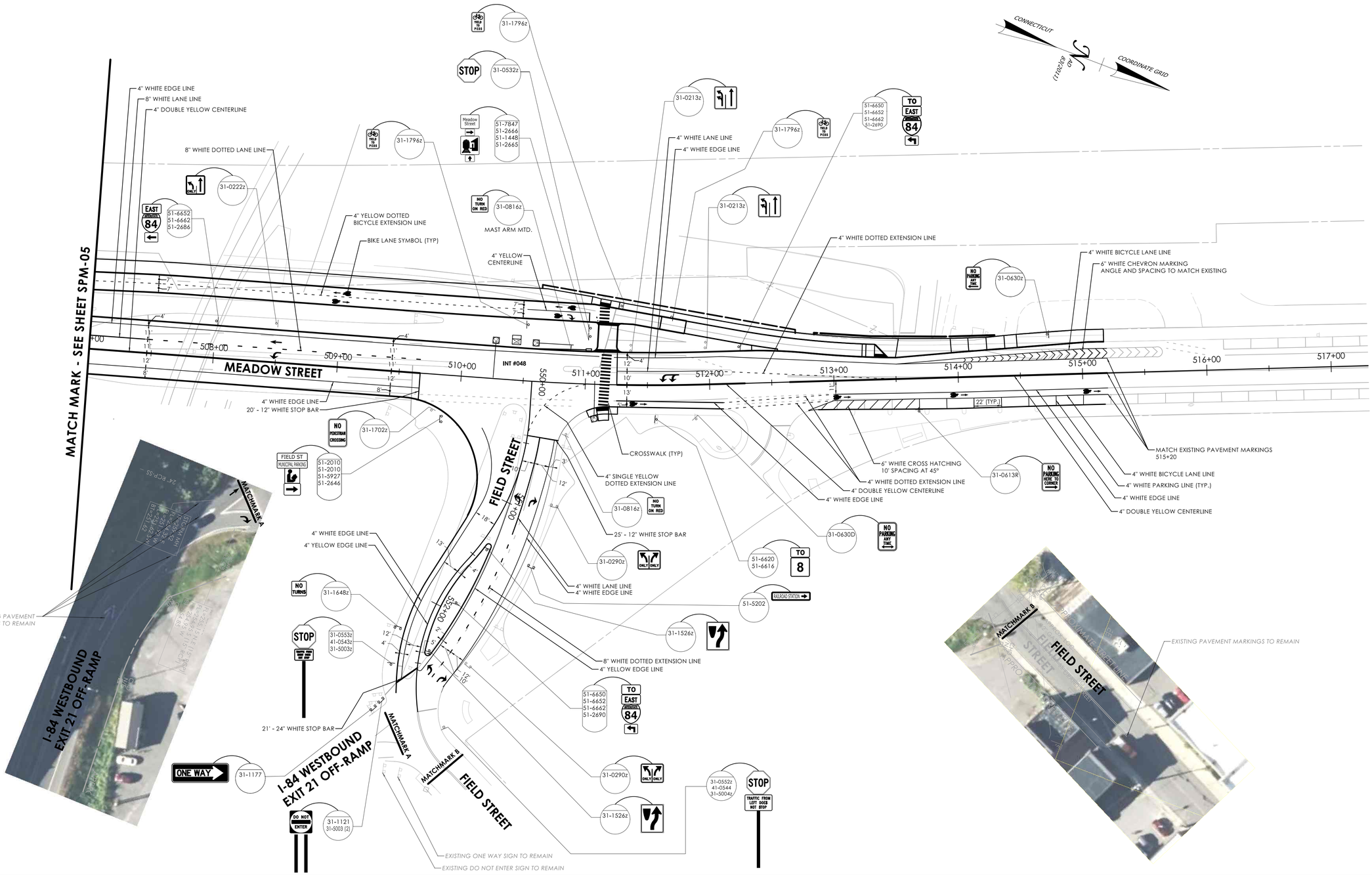
DRAWING NO.:
SPM-05

SHEET NO.:
07.26

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PLOTTED DATE: 8/18/2025

GENERAL NOTES

1. REFERENCE SPM-01 FOR GENERAL NOTES, SIGNING NOTES, AND PAVEMENT MARKING NOTES.

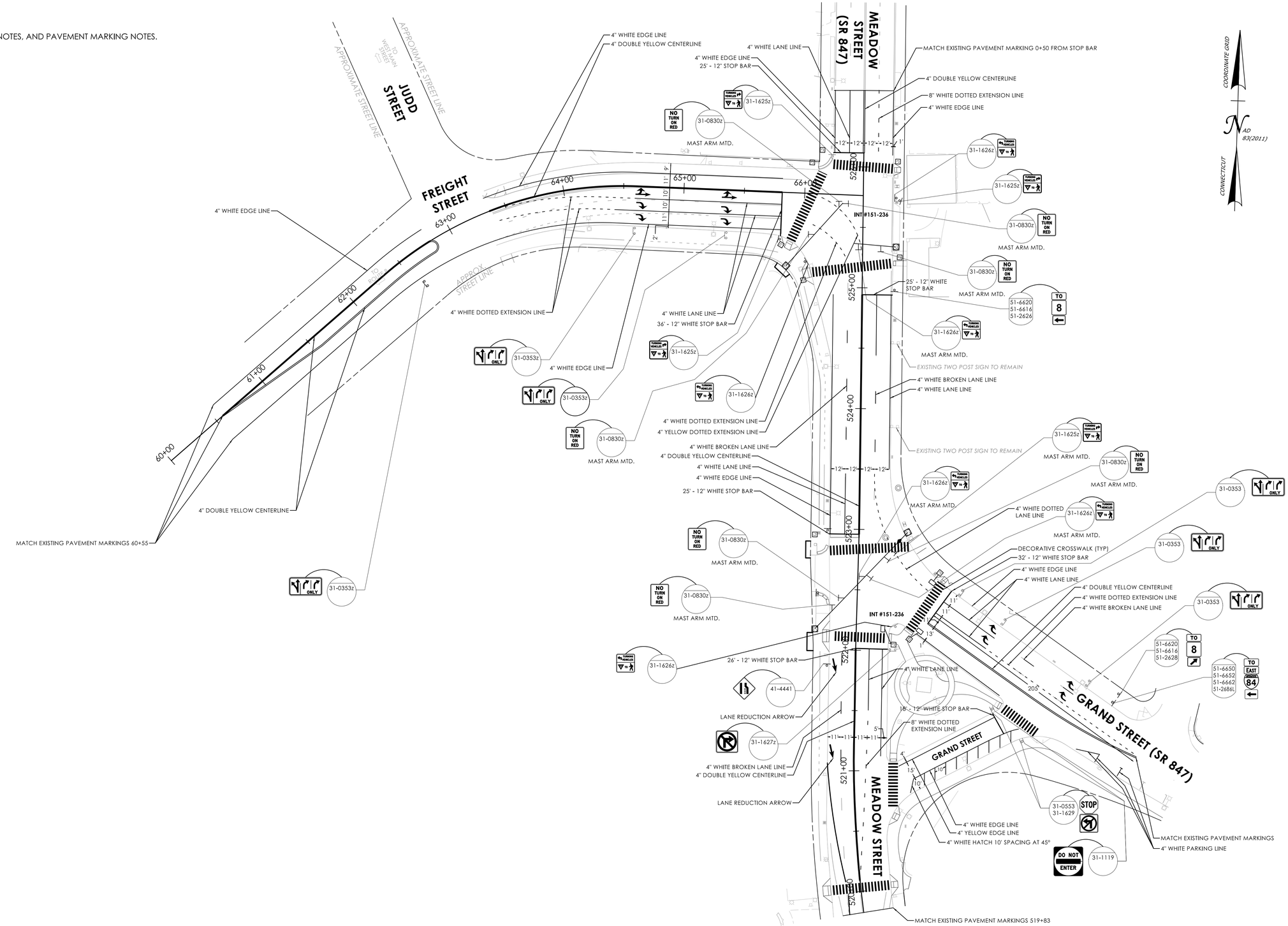


REV.	DATE	REVISION DESCRIPTION					
SIGNATURE BLOCK:		HORIZONTAL SCALE 1" = 40' (0, 40', 80')	CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP	TOWN(S): WATERBURY	DRAWING TITLE: SIGNING AND PAVEMENT MARKING PLAN	PROJECT NO.: 0151-0340
DESIGNER/DRAFTER: S. SEPERACK	CHECKED BY: M. KURKER						DRAWING NO.: SPM-06 SHEET NO.: 07.27

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SignsPavMarking-06.dgn
PLOTTED DATE: 8/18/2025

GENERAL NOTES

1. REFERENCE SPM-01 FOR GENERAL NOTES, SIGNING NOTES, AND PAVEMENT MARKING NOTES.



REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80'
HORIZONTAL SCALE
1" = 40'

CTDOT
CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP**

TOWN(S): **WATERBURY**

DRAWING TITLE: **SIGNING AND PAVEMENT MARKING PLAN**

PROJECT NO.: **0151-0340**

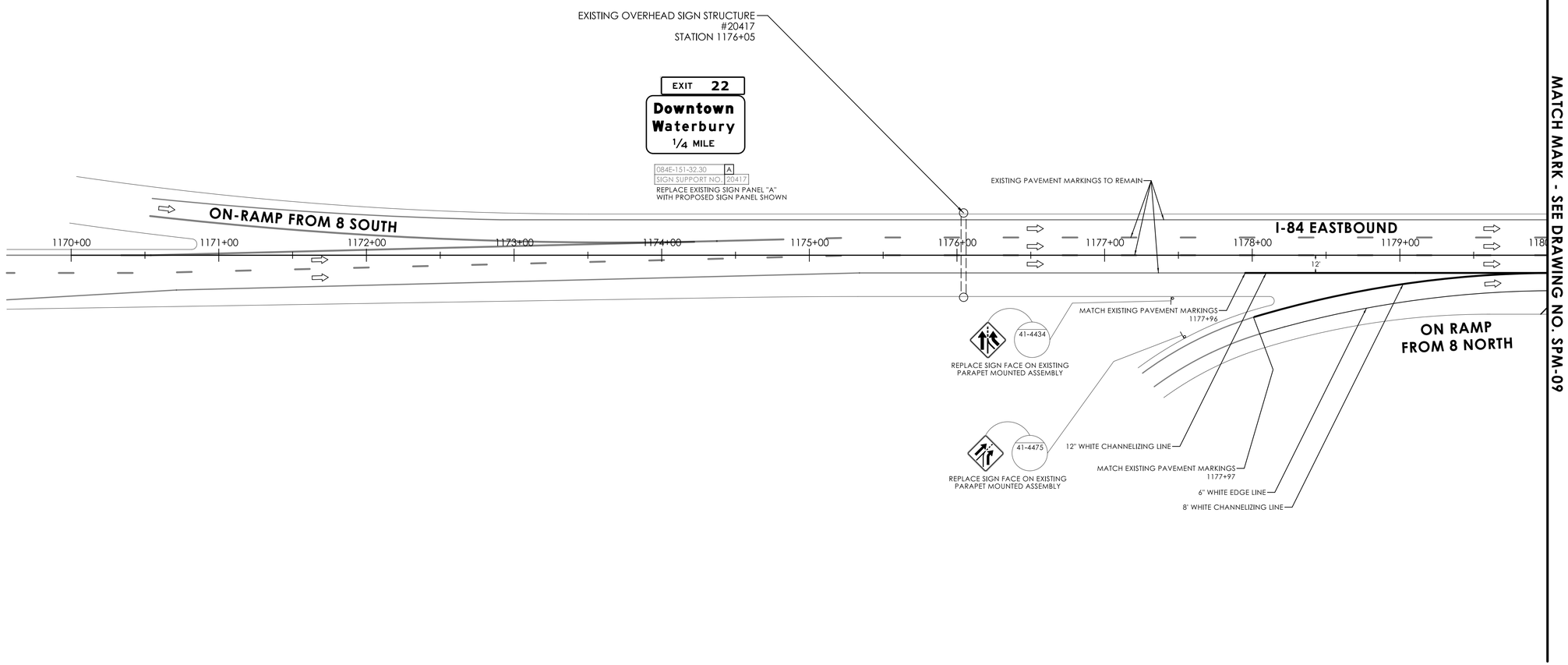
DRAWING NO.: **SPM-07**

SHEET NO.: **07.28**

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SignsPavMarking-07.dgn
PLOTTED DATE: 8/18/2025

GENERAL NOTES

1. REFERENCE SPM-01 FOR GENERAL NOTES, SIGNING NOTES, AND PAVEMENT MARKING NOTES.



COORDINATE GRID
NAD 83(2011)
CONNECTICUT

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80'
HORIZONTAL SCALE
1" = 40'

CTDOT
CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: SIGNING AND PAVEMENT MARKING PLAN

PROJECT NO.: 0151-0340

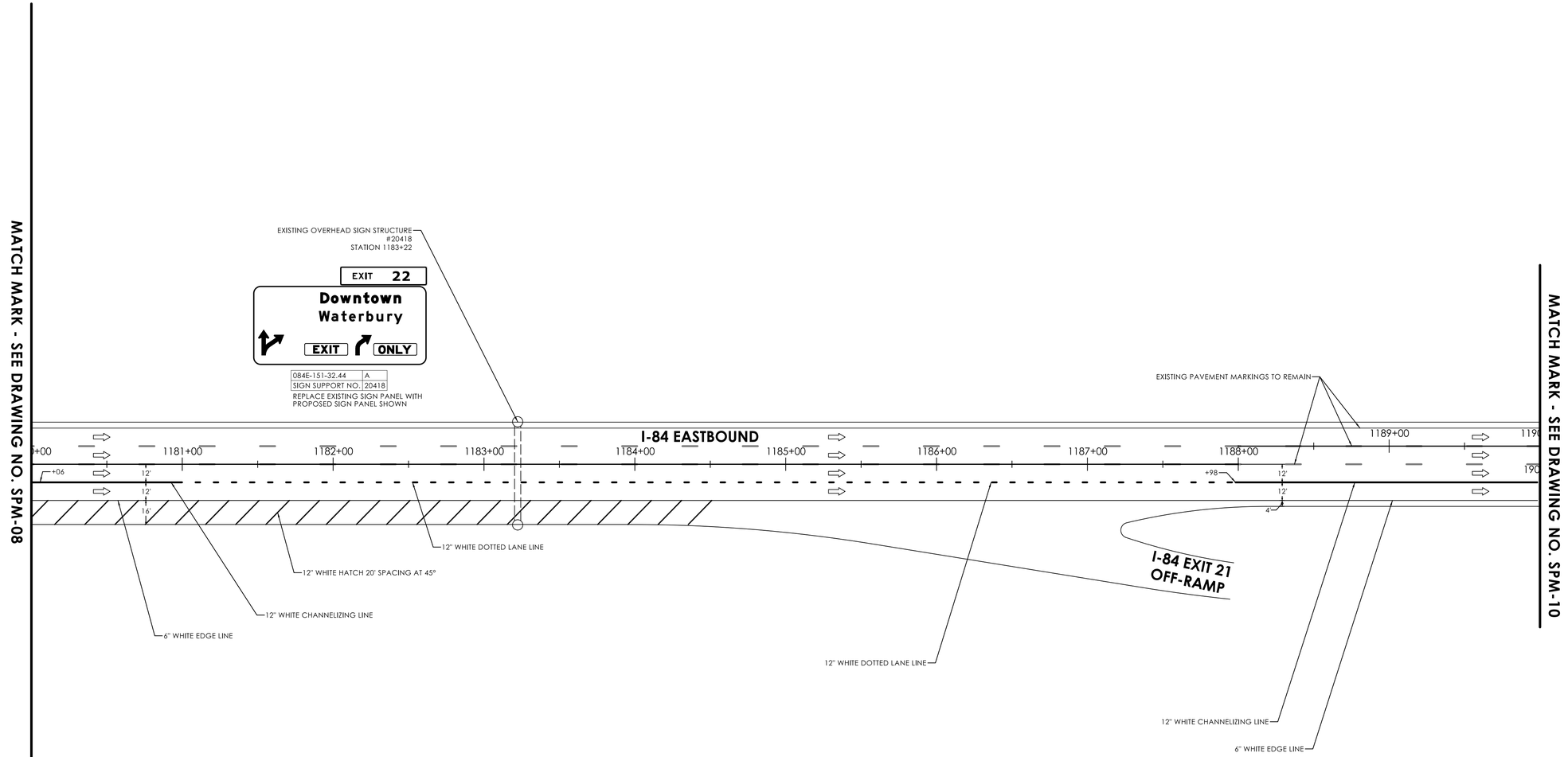
DRAWING NO.: SPM-08

SHEET NO.: 07.29

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SignsPavMarking-08.dgn
PLOTTED DATE: 8/18/2025

GENERAL NOTES

1. REFERENCE SPM-01 FOR GENERAL NOTES, SIGNING NOTES, AND PAVEMENT MARKING NOTES.



REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80'
HORIZONTAL SCALE 1" = 40'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: SIGNING AND PAVEMENT MARKING PLAN

PROJECT NO.: 0151-0340

DRAWING NO.: SPM-09

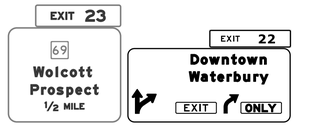
SHEET NO.: 07.30

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PLOTTED DATE: 8/18/2025

GENERAL NOTES

1. REFERENCE SPM-01 FOR GENERAL NOTES, SIGNING NOTES, AND PAVEMENT MARKING NOTES.

COORDINATE GRID
NAD 83(2011)
CONNECTICUT



084E-151-32.58 A B
SIGN SUPPORT NO. 20419
REPLACE EXISTING SIGN PANEL "B"
WITH PROPOSED SIGN PANEL SHOWN

EXISTING OVERHEAD SIGN STRUCTURE #20419
STATION 1190+36

MATCH MARK - SEE DRAWING NO. SPM-09

MATCH EXISTING PAVEMENT MARKINGS 1194+12

EXISTING 51-6124 TO REMAIN
(EXIT 22 W/ ARROW)

24" WHITE CHEVRON MARKING

12" WHITE CHANNELIZING LINE

EXISTING PAVEMENT MARKINGS TO REMAIN

6" YELLOW EDGE LINE

8" WHITE BROKEN LANE LINE

12" WHITE CHANNELIZING LINE

6" WHITE EDGE LINE

24" WHITE CHEVERON MARKING

RAMP TO BE REMOVED

LANE USE ARROW (TYP.)

WHITE WRONG WAY PAVEMENT ARROW (TYP.)

MATCH MARK - SEE DRAWING NO. SPM-03

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

HORIZONTAL SCALE 1" = 40'

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: SIGNING AND PAVEMENT MARKING PLAN

PROJECT NO.: 0151-0340

DRAWING NO.: SPM-10

SHEET NO.: 07.31

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SignsPavMarking-10.dgn
PLOTTED DATE: 8/18/2025

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2 PRE-EMPT #1	PHASE 3	PHASE 4 PRE-EMPT #2	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PHASE 9
		1, 2, P2A, P2		P4, P4A, 3, P4					

		FLASH	GRN	CL	CL	LPI	GRN	CL	CL	GRN	CL	CL	LPI	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
FACE #	1	Y				R	G	Y	R				R	R	R	R												
	2	R				R	G	Y	R				R	R	R	R												
	3	R				R	R	R	R				R	G	Y	R												
	P2/P2A	OFF				←WØ→		←DW→					←DW→															
	P4/P4A	OFF				←DW→							←WØ→		←DW→													
								YIELD POINT																				
							G	W	PC					G	W	PC												
	MIN					3.0	10	3	15	3.0	1.0		3.0	7	3	11	3.0	1.0										
	MAX					5.0	60	10	20	5.0	3.0		5.0	60	10	20	5.0	3.0										
INTERVALS	MIN GRN						15							9														
	WALK					4 ①		3 ①		ACCESSIBLE PEDESTRIAN SIGNAL			4 ②		3 ②		ACCESSIBLE PEDESTRIAN SIGNAL											
	PED CLR							15 ③							11 ③													
	VEH EXT							3							2													
	MAX 1							39							54													
	MAX 2							39							54													
	YELLOW								3.6							3.2												
	RED									2.1							1.6											
	ADD INIT																											
	MAX INIT																											
	TBR																											
	TTR																											
	MIN GAP																											
MODE			OFF			MIN RECALL				OFF			NON-LOCK				OFF			OFF			OFF			OFF		
INT START						THIS PHASE																						

DETECTORS

IDENT	SIZE (WXI)	TYPE	MODE
D2, D2A	6'x40'	VIDEO - 360	PRESENCE
D4A	6'X40'	VIDEO - 360	PRESENCE

SYSTEM LOC

MASTER
W43
ZONE 5

COORDINATION TYPE: CLOSED LOOP

PROGRAM			CYCLE	OFFSET		PHASE SPLITS SEC / %							
FUNCTION	TIME	DAYS		SEC	%	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
FLASH	NONE					/	/	/	/	/	/	/	/
MAX 1	ALL OTHER TIMES					/	/	/	/	/	/	/	/
MAX 2	FUTURE					/	/	/	/	/	/	/	/
PATTERN 1	0600-0900	M-F	100"	79"	79%	/	43/43	/	57/57	/	/	/	/
PATTERN 2	1500-1900	M-F	100"	57"	57%	/	56/56	/	44/44	/	/	/	/
						/	/	/	/	/	/	/	/
						/	/	/	/	/	/	/	/
						/	/	/	/	/	/	/	/
						/	/	/	/	/	/	/	/
						/	/	/	/	/	/	/	/

SIGN LEGEND

(A) INSTALL 31-1626z (TURNING VEHICLES TO)

(B) INSTALL 31-1625z (TURNING VEHICLES TO)

(C) INSTALL 31-0816z MOUNTED ON MAST ARM (NO TURN ON RED)

PAVEMENT MARKING NOTES:

SEE SEPARATE PLANS FOR PAVEMENT MARKING INFORMATION.

FUTURE INTERCONNECT NOTES:

2" RMC FOR FUTURE INTERCONNECT FOR CITY OF WATERBURY USE. INSTALL 20' RMC RISER ON UTILITY POLE CL&P F6228 FOR CITY OF WATERBURY FUTURE USE.

NOTES:

CITY OF WATERBURY TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS BANK STREET AND WEST LIBERTY STREET.

CITY OF WATERBURY TO OWN AND MAINTAIN EMERGENCY PRE-EMPTION EQUIPMENT.

ALL CROSSWALKS ARE BAR TYPE.

(W) 30" x 30" HANDHOLE. ALL OTHERS TYPE II.

(X) CAST IRON HANDHOLE COVER.

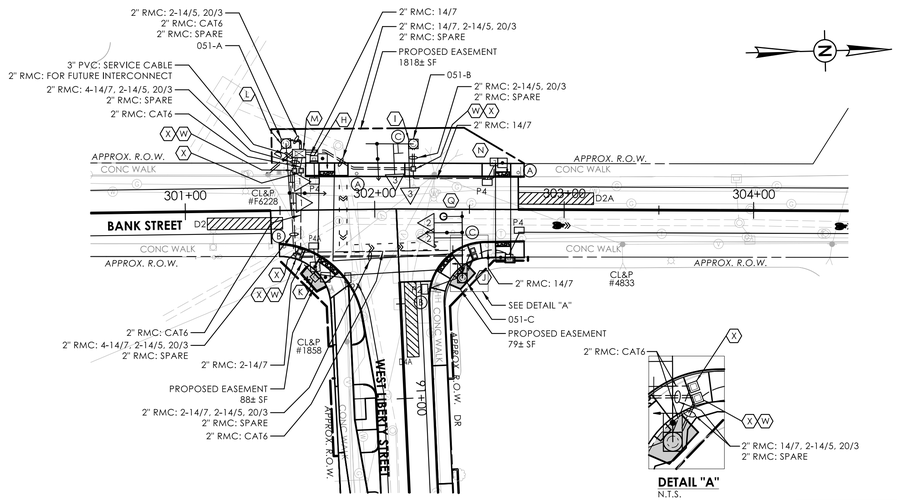
ADDITIONAL APPURTENANCE INFORMATION

QUANDRANT (PLAN VIEW)	ITEM	EASTING, NORTHING
NW	CONTROLLER	919626.738623', 760325.711173'

MAST ARM INFORMATION

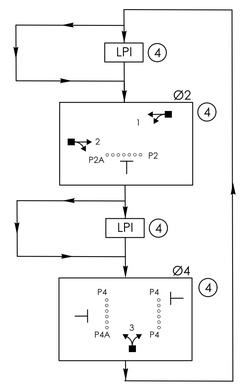
ID #	APPROX. ARM ATTACHMENT HEIGHT	ARM LENGTH	YEAR INSTALLED	VERTICAL RISER FOR 360 CAMERA	EASTING, NORTHING	BEARING
051-A	*	35'	20XX	N/A	919621.253424', 760319.018998'	N87°49'38.35"E
051-B	*	25'	20XX	N/A	919623.701218', 760386.216511'	S02°06'46.59"W
051-C	*	35'	20XX	10'	919695.308319', 760409.680457'	N88°18'56.42"W

* TO BE CALCULATED BY THE CONTRACTOR BASED ON FIELD CONDITIONS.



DETAIL "A"
N.T.S.

SIGNAL PHASING DIAGRAM



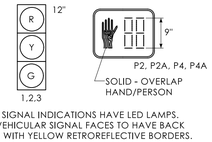
UTILITY LEGEND

- (V) ELECTRIC POWER, LINES AND CONDUIT
- (G) GAS
- (W) WATER
- SEWER
- (T) COMMUNICATION

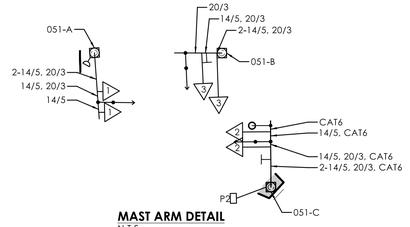
TECHNICAL NOTES	OFFICE RECORD
STANDARD OVERLAP SKIP FEATURES APPLY.	REV # TIR #151-2412-01 SM # SIGNAL REVISED:
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.	INSTALLED NEW SIGNAL EQUIPMENT UNDER CTDOT PROJECT #0151-0340.
TIMINGS SHOWN ARE FOR FREE OPERATION. ACTUAL TIMING TO BE DETERMINED BY THE MASTER COMPUTER.	
(1) PERCUSSIVE TONE ONLY DURING LPI & PEDESTRIAN WALK INTERVAL FOR P2 BUTTON. SPEECH MESSAGE "WEST LIBERTY. WALK SIGN IS ON TO CROSS WEST LIBERTY". DURING LPI & PEDESTRIAN WALK INTERVAL FOR P2A BUTTON.	
(2) PERCUSSIVE TONE ONLY DURING LPI & PEDESTRIAN WALK INTERVAL FOR P4 BUTTONS. SPEECH MESSAGE "BANK. WALK SIGN IS ON TO CROSS BANK". DURING LPI & PEDESTRIAN WALK INTERVAL FOR P4A BUTTON.	
(3) COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CHANGE INTERVAL.	
(4) LPI AND CONCURRENT PEDESTRIAN PHASE ONLY COMES IN WHEN ACTUATED BY PUSH BUTTON.	
THIS INTERSECTION WIRELESSLY CONNECTED BY RADIO TO MEADOW STREET AT BANK STREET AND PLAZA DRIVE (STATE INT #151-278).	

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.	PARENT	PARENT
HOLD GREEN	15	15
HOLD YELLOW	3.6	3.2
HOLD RED	2.1	1.6
HOLD PHASE	2	4
EXIT PHASE	4	2
EXIT CALL	NONE	NONE

SIGNAL FACES



ALL SIGNAL INDICATIONS HAVE LED LAMPS.
ALL VEHICULAR SIGNAL FACES TO HAVE BACK PLATES WITH YELLOW RETROREFLECTIVE BORDERS.



MAST ARM DETAIL
N.T.S.

CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW, EXCEPT WHERE NOTED.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ALL PEDESTRIAN PUSH BUTTONS TO BE "ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR (TYPE A)". INSTALL SIGN NO. 31-0845 WITH APPROPRIATE ARROW AT PEDESTRIAN BUTTON LOCATIONS.

ANY PROPOSED REVISION TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF WATERBURY PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. IF A MINIMUM 4 FOOT CLEAR PATH IS UNAVAILABLE, NOTIFY THE ENGINEER AND CONTACT THE CITY OF WATERBURY.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

REMOVE ALL ABANDONDED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

(H) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 301+68, 27' LT.

(I) INSTALL MAST ARM FOUNDATION AT 302+20, 34' LT.

(J) INSTALL MAST ARM FOUNDATION WITH APS, 2' EXTENSION BRACKET, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 302+46, 36' RT.

(K) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 301+68, 35' RT.

(L) INSTALL MAST ARM FOUNDATION AT 301+54, 35' LT. INSTALL TRAFFIC SIGNAL WIRELESS RADIO ANTENNA ON MAST ARM.

(M) INSTALL CONTROLLER CABINET AT 301+62, 33' LT. CONCRETE PAD TO BE INSTALLED ON DOOR SIDE BETWEEN SIDEWALK AND CONTROLLER CABINET.

(N) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 302+63, 25' LT.

(Q) DETECTION BY USE OF 360 DEGREE VIDEO CAMERA MOUNTED ON MASTARM #051-C.

(W) 30" x 30" HANDHOLE. ALL OTHERS TYPE II.

(X) INSTALL CAST IRON HANDHOLE COVER.

DETECTOR LOCATIONS ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE CONTROLLER CABINET.

CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS.

MAST ARM ASSEMBLY TO HAVE MINIMUM CLEARANCE OF 24" FROM OVERHEAD COMMUNICATION CABLES.

INSTALL INTERCONNECT RISER ON CL&P #F6228 UTILITY POLE.

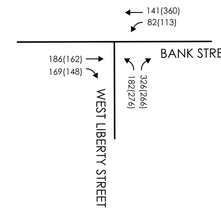
INSTALL 3" RMC SWEEP AT THE SERVICE POLE AND ATTACH TO THE SERVICE CONDUIT WITH A PVC FEMALE ADAPTER. TO BE PAID FOR UNDER ITEM NO. 1017032A-SERVICE (METERED). BOND AND GROUND RMC SWEEP PER EVERSOURCE REQUIREMENTS. EVERSOURCE TO FURNISH AND INSTALL THE SERVICE RISER AND LINE-SIDE CONDUCTORS.

CONTRACTOR TO INSTALL INTERCONNECT EQUIPMENT BETWEEN CONTROLLER AND CENTRAL OPERATIONS CENTER. WORK TO BE PAID UNDER ITEM NO. 1017019A - WIRELESS RADIO ASSEMBLY.

EMERGENCY PRE-EMPTION NOTES

ALL EMERGENCY PRE-EMPTION EQUIPMENT IS EXISTING. TEST PRE-EMPTION EQUIPMENT SYSTEM AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS. INSTALLED EQUIPMENT SHALL BE FULLY COMPATIBLE WITH THE CITY OF WATERBURY EXISTING EMERGENCY PRE-EMPTION SYSTEM.

PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE TRAFFIC SIGNAL CONTROLLER CABINET.



TRAFFIC VOLUMES (2045)
AM(PM)

Michael R Tasker
STATE OF CONNECTICUT
MICHAEL R. TASKER
34338
LICENSED
PROFESSIONAL ENGINEER

FINAL DESIGN
NOT FOR CONSTRUCTION
JULY 2025

SCALE: 1"=40'

CITY SIGNAL

	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER				
DRAWN BY	BLC Companies — ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING			07/2025
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
APPROVED DATE				

REV #	STATE INTERSECTION # 151-XXX	CITY INTERSECTION # 051
ENERGY BY: CITY	ADDRESS #:	
MAINT LEVEL: CITY	SERVICE POLE: CL&P F6228	
	METERED SERVICE	

REVISION DESCRIPTION | DATE | REV.

LEGEND: FL. FLASHING; R RED; Y YELLOW; G GREEN; W/Ø WALK/ PED. CLR; D.W. DON'T WALK; RED ARROW; YELLOW ARROW; GREEN ARROW; WALK/ PED. CLR; PROPOSED RMC; EXISTING RMC; CABLE CLOSURE; VC VIDEO CAMERA CABLE; RC RADAR CABLE; DET. LEADS IN SAW CUT; PROPOSED SUPPORT STRUCTURE; EXISTING STEEL SPAN POLE; PROPOSED UTILITY POLE; EXISTING UTILITY POLE; EXISTING WOOD SPAN POLE; PEDESTAL MOUNTING; PEDESTAL MOUNTED RRFB; PEDESTRIAN PUSH BUTTON & SIGN; DIRECTIONAL ARW. FOR PUSH BUTTON; PEDESTRIAN SIGNAL FACE; TRAFFIC SIGNAL FACE; PROPOSED HANDHOLE; EXISTING HANDHOLE; PROPOSED CONTROLLER; EXISTING CONTROLLER; AUXILIARY EQUIPMENT CABINET; OPTICAL DETECTOR; IP VIDEO DETECTOR; RADAR DETECTOR; THERMAL DETECTOR; AUDIO DETECTOR; 360° CAMERA ASSEMBLY; VIDEO THERMAL DETECTOR; DETECTION ZONE; LOOP DETECTOR; RADIO ANTENNA; POLE ANCHOR

CTDOT — CONNECTICUT DEPARTMENT OF TRANSPORTATION

BANK STREET AT WEST LIBERTY STREET
TOWN(S): WATERBURY

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**
PROJECT NO.: **0151-0340**
DRAWING NO.: **TCS-01**
SHEET NO.: **07.32**

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SIGNAL_151_X51_Bank@WestLiberty.dgn
PLOTTED DATE: 8/18/2025

MOVEMENT DIAGRAM

NTOR	PHASE 1 PRE-EMPT 1	PHASE 2	PHASE 3	PHASE 4 PRE-EMPT 3	PHASE 5	PHASE 6	PHASE 7	PHASE 8 PRE-EMPT 2	PHASE 9

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	R	G	Y	R	R	R	R	R	R	R	R	R	R				R	G	Y	R	R	R	R	R	R			
2	R	R	R	R	R	G	Y	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	G	Y	R			
4	R	R	R	R	R	R	R	R	R	R	G	Y	R				R	R	R	R	R	R	R	R	R			
5	R	R	R	R	R	G	Y	R	R	R	R	R	R				R	R	R	R	R	R	R	R	R			
6	R	G	Y	R	R	R	R	R	R	R	R	R	R				R	G	Y	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			
8	R	R	R	R	R	R	R	R	R	R	R	R	R				R	R	R	R	R	R	G	Y	R			
9	R	R	R	R	R	R	R	R	R	R	R	R	R				R	R	R	R	R	R	G	Y	R			
P2	OFF	DW			WØ			DW									DW											
P4	OFF	DW			DW			WØ		DW							WØ			DW								
P6	OFF	DW			DW			DW									DW			DW								
P8	OFF	DW			DW			DW									DW			WØ		DW						
		YIELD POINT															YIELD POINT											
					G	W	PC				G	W	PC										G	W	PC			
MIN		10	3.0	1.0	3.0	3	10	14	3.0	1.0	5.0	3.0	1.0	7	10	17	3.0	1.0	3.0	7	10	14	3.0	1.0	5.0	3.0	1.0	7	9	24	3.0	1.0
MAX		45	5.0	3.0	5.0	10	45	20	5.0	3.0	35.0	5.0	3.0	10	45	20	5.0	4.0	5.0	10	45	20	5.0	3.0	25.0	5.0	3.0	10	50	25	5.0	3.0
MIN GRN		10			10						10			9						10					5			9				
WALK					4 ①	3	①	ACCESSIBLE PEDESTRIAN SIGNAL						7	②	ACCESSIBLE PEDESTRIAN SIGNAL			4 ①	3	①	ACCESSIBLE PEDESTRIAN SIGNAL					7	②	ACCESSIBLE PEDESTRIAN SIGNAL		
PED CLR						14	④							17	④					14	④							24	④			
VEH EXT		3				3					3			3						3					3			3				
MAX 1		15				25					31			26						25					7			50				
MAX 2		15				31					20			21						31					5			46				
YELLOW			3.0				3.0			3.0					3.7			3.1				3.0				3.0				3.7		
RED				2.7				2.7				3.0					3.1					2.7				2.5					2.1	
ADD INIT																																
MAX INIT																																
TBR																																
TTR																																
MIN GAP																																
MODE		ON/OMIT			MIN RECALL				NON-LOCK			NON-LOCK				OFF			MIN RECALL				NON-LOCK				NON-LOCK				OFF	
INIT START					THIS PHASE														THIS PHASE													

DETECTORS				SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP														
IDENT	SIZE (WXI)	TYPE	MODE	MASTER	PROGRAM			CYCLE	OFFSET		PHASE SPLITS SEC / %							
					FUNCTION	TIME	DAYS		SEC	%	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
D2	6' X 40'	VIDEO-360	PRESENCE		FLASH	NONE					/	/	/	/	/	/	/	/
D2A	8' X 40'	VIDEO-360	PRESENCE		MAX 1	ALL OTHER TIMES					/	/	/	/	/	/	/	/
D3	6' X 40'	VIDEO-360	PRESENCE		MAX 2	FUTURE					/	/	/	/	/	/	/	/
D4	6' X 40'	VIDEO-360	PRESENCE		PATTERN 1	0600-0900	M-F	100"	80"	80%	/	32/32	35/35	33/33	/	/	9/9	59/59
D6	6' X 40'	VIDEO-360	PRESENCE		PATTERN 2	1500-1900	M-F	100"	58"	58%	/	36/36	26/26	38/38	/	/	9/9	55/55
D6A	8' X 40'	VIDEO-360	PRESENCE								/	/	/	/	/	/	/	/
D6B	8' X 40'	VIDEO-360	PRESENCE								/	/	/	/	/	/	/	/
D7	6' X 40'	VIDEO-360	PRESENCE								/	/	/	/	/	/	/	/
D8	6' X 40'	VIDEO-360	PRESENCE								/	/	/	/	/	/	/	/
											/	/	/	/	/	/	/	/
											/	/	/	/	/	/	/	/

SIGN LEGEND

Ⓐ INSTALL 31-0282z (ONLY)

Ⓑ INSTALL 31-0816z MOUNTED ON MAST ARM (NO TURN ON RED)

Ⓒ INSTALL 31-0302z (ONLY ONLY)

Ⓓ INSTALL 31-1626z (TURNING VEHICLES TO)

Ⓔ INSTALL 31-1625z (TURNING VEHICLES TO)

PAVEMENT MARKING NOTES

SEE SEPARATE PLANS FOR PAVEMENT MARKING INFORMATION.

FUTURE INTERCONNECT NOTES

2" RMC FOR FUTURE INTERCONNECT FOR CITY OF WATERBURY USE. INSTALL 20' RMC RISER ON UTILITY POLE CL&P F63855 FOR CITY OF WATERBURY FUTURE USE.

NOTES

CITY OF WATERBURY TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON BANK STREET AND MEADOW STREET AND ALL STOP BARS.

PAVEMENT MARKINGS AND SIGNS ON PLAZA DRIVE TO BE MAINTAINED BY PROPERTY OWNER.

CITY OF WATERBURY TO OWN AND MAINTAIN EMERGENCY PRE-EMPTION EQUIPMENT.

ALL CROSSWALKS ARE BAR TYPE.

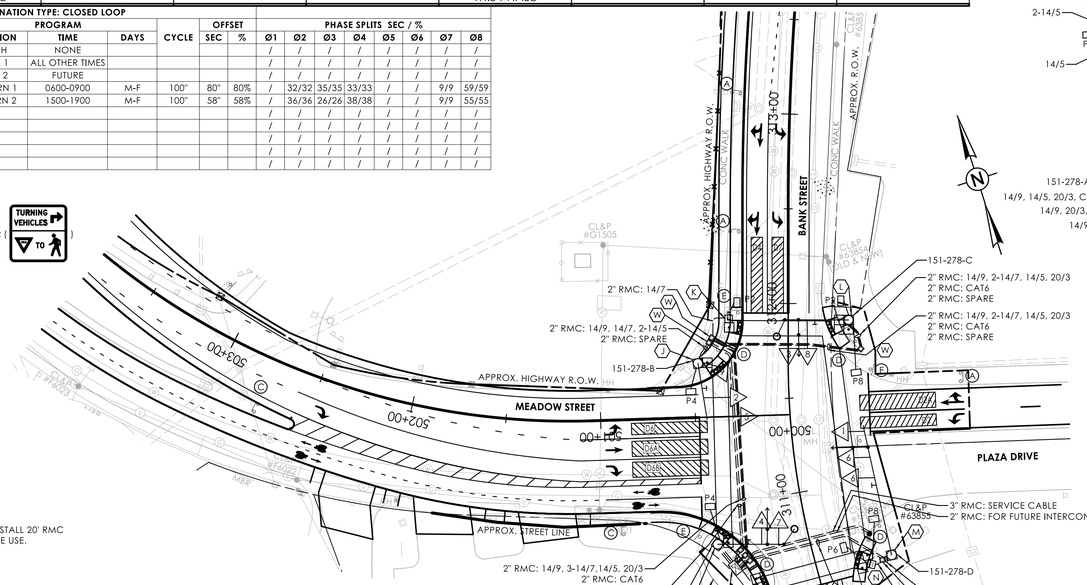
Ⓦ 30" x 30" HANDHOLE. ALL OTHERS TYPE II.

Ⓧ CAST IRON HANDHOLE COVER.

MAST ARM INFORMATION

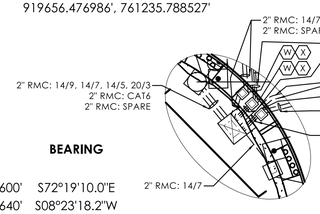
ID #	APPROX. ARM ATTACHMENT HEIGHT	ARM LENGTH	VERTICAL RISER FOR 360 DEGREE CAMERA	YEAR INSTALLED	EASTING, NORTHING	BEARING
151-278-A	*	35'	10'	20XX	919666.278850', 761246.861600'	S72°19'10.0"E
151-278-B	*	30'	N/A	20XX	919670.394564', 761344.573640'	S08°23'18.2"W
151-278-C	*	35'	10'	20XX	919753.118176', 761342.269358'	N72°07'43.0"W
151-278-D	*	70'	N/A	20XX	919737.111041', 761217.181546'	N05°13'44.3"E

* TO BE CALCULATED BY THE CONRACTOR BASED ON FIELD CONDITIONS.



ADDITIONAL APPURTENANCE INFORMATION

QUADRANT	ITEM	EASTING, NORTHING
SW	CONTROLLER	919656.476986', 761235.788527'



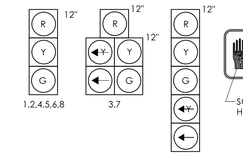
CONTROLLER DETAIL

1"=20'

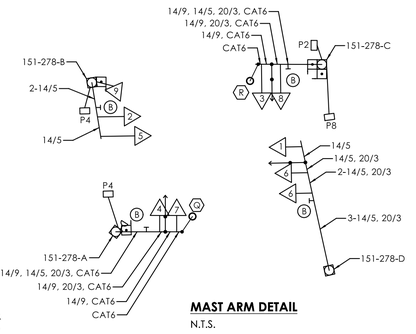
TECHNICAL NOTES	OFFICE RECORD
STANDARD OVERLAP SKIP FEATURES APPLY.	REV # TIR # SM # SIGNAL REVISED:
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.	I-84 EB EXIT 21 OFF RAMP REMOVED, NEW TRAFFIC SIGNAL EQUIPMENT INSTALLED UNDER CTDOT PROJECT #0151-0340.
TIMINGS SHOWN ARE FOR FREE OPERATION. ACTUAL TIMING TO BE DETERMINED BY THE CLOSED LOOP DETERMINATION UNIT.	
① PERCUSSIVE TONE ONLY DURING LPI AND PEDESTRIAN WALK INTERVAL.	
② PERCUSSIVE TONE ONLY DURING CONCURRENT PEDESTRIAN WALK INTERVAL.	
③ LPI AND CONCURRENT PEDESTRIAN PHASE ONLY COMES IN WHEN ACTUATED BY PUSH BUTTON.	
④ COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CHANGE INTERVAL.	
THIS INTERSECTION WIRELESSLY CONNECTED BY RADIO TO BANK STREET AT WEST LIBERTY STREET (CITY INT #051).	

PRE-EMPTION SETTINGS	PRE-EMPT 1	PRE-EMPT 2	PRE-EMPT 3
PRIORITY	NO	NO	NO
DET. LOCK	YES	YES	YES
DELAY	0	0	0
ALT. MIN. GRN	5	5	5
ALT. YELLOW	PARENT	PARENT	PARENT
ALT. RED	PARENT	PARENT	PARENT
ALT. PED. CLR.	PARENT	PARENT	PARENT
HOLD GREEN	15	15	15
HOLD YELLOW	3.0	3.7	3.7
HOLD RED	2.7	2.1	3.1
HOLD PHASE	1	8	4
EXIT PHASE	4	2	2
EXIT CALL	NONE	NONE	NONE

SIGNAL FACES



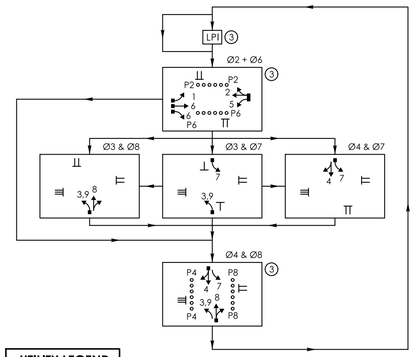
ALL SIGNAL INDICATIONS HAVE LED LAMPS. ALL VEHICULAR SIGNAL FACES TO HAVE BACK PLATES WITH YELLOW RETROREFLECTIVE BORDERS. FACE #9 TO HAVE TUNNEL VISORS.



MAST ARM DETAIL

N.T.S.

SIGNAL PHASING DIAGRAM



UTILITY LEGEND

- Ⓥ ELECTRIC POWER, LINES AND CONDUIT
- Ⓖ GAS
- Ⓦ WATER
- SEWER
- Ⓒ COMMUNICATION

CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW, EXCEPT WHERE NOTED.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ALL PEDESTRIAN PUSH BUTTONS TO BE "ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR (TYPE A)". INSTALL SIGN NO. 31-0845 WITH APPROPRIATE ARROW AT PEDESTRIAN BUTTON LOCATIONS.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF WATERBURY PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL EQUIPMENT WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH NOT LESS THAN 4 FEET. IF A MINIMUM OF 4 FEET FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE CITY OF WATERBURY.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

Ⓗ INSTALL CONTROLLER CABINET ADJACENT TO SIDEWALK AT 310+72, 40' LT. CONCRETE PAD TO BE INSTALLED ON DOOR SIDE BETWEEN SIDEWALK AND CONTROLLER CABINET.

Ⓘ INSTALL MAST ARM FOUNDATION WITH APS AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 310+82, 48' LT. INSTALL TRAFFIC SIGNAL WIRELESS RADIO ANTENNA ON MAST ARM.

Ⓙ INSTALL MAST ARM FOUNDATION WITH APS AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 500+42, 31' RT.

Ⓚ INSTALL PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 311+95, 33' LT.

Ⓛ INSTALL MAST ARM FOUNDATION WITH POLE MOUNTED SIGNAL HEAD, APS, AND TWO ONE-WAY PEDESTRIAN COUNTDOWN SIGNALS ADJACENT TO LANDING AREA AT 311+89, 28' RT.

Ⓜ INSTALL MAST ARM FOUNDATION AT 310+55, 45' RT.

Ⓝ INSTALL PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND TWO-WAY PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 310+54, 40' RT.

Ⓤ INSTALL PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 310+57, 34' LT.

Ⓠ DETECTION BY USE OF VIDEO-360 CAMERA ON MAST ARM 151-278-A.

Ⓡ DETECTION BY USE OF VIDEO-360 CAMERA ON MAST ARM 151-278-C.

Ⓦ 30" x 30" HANDHOLE. ALL OTHERS TYPE II.

Ⓧ INSTALL CAST IRON HANDHOLE COVER.

DETECTOR LOCATIONS ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN THE CAMERA AND CONTROLLER CABINET.

CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY.

WHERE APPLICABLE, ALL MAST ARM ASSEMBLY TO HAVE MUNIMUM OF 24" FROM OVERHEAD COMMUNICATION CABLES.

INSTALL INTERCONNECT RISER ON CL&P #F63855 UTILITY POLE.

INSTALL A 3" RMC SWEEP AT THE SERVICE POLE AND ATTACH TO THE SERVICE CONDUIT WITH A PVC FEMALE ADAPTER. TO BE PAID FOR UNDER ITEM NO. 1017032A-SERVICE (METERED). BOND AND GROUND THE RMC SWEEP PER EVERSOURCE REQUIREMENTS. EVERSOURCE TO FURNISH AND INSTALL THE SERVICE RISER AND LINE-SIDE CONDUCTORS.

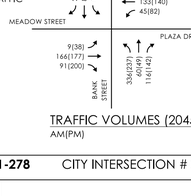
CONTRACTOR TO INSTALL INTERCONNECT EQUIPMENT BETWEEN CONTROLLER AND CENTRAL OPERATIONS CENTER. WORK TO BE PAID UNDER ITEM NO. 1017019A - WIRELESS RADIO ASSEMBLY.

SERVICE CONDUIT INSTALLED UNDER THE ROADWAY SHALL BE 3" RMC. A PVC FEMALE ADAPTER SHALL BE USED TO CONNECT TO THE 3" PVC IN TRENCH.

EMERGENCY PRE-EMPTION NOTES

ALL EMERGENCY PRE-EMPTION EQUIPMENT IS EXISTING. TEST PRE-EMPTION EQUIPMENT SYSTEM AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS. INSTALLED EQUIPMENT SHALL BE FULLY COMPATIBLE WITH THE CITY OF WATERBURY EXISTING EMERGENCY PRE-EMPTION SYSTEM.

PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE TRAFFIC SIGNAL CONTROLLER CABINET.



TRAFFIC VOLUMES (2045)
AM(PM)

CITY SIGNAL

FINAL DESIGN NOT FOR CONSTRUCTION JULY 2025

SCALE: 1" = 40'

	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER				
DRAWN BY	BL Companies ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING			07/2025
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
APPROVED DATE				

REV #	STATE INTERSECTION # 151-278	CITY INTERSECTION # 049
ENERGY BY: CITY	ADDRESS #:	
MAINT LEVEL: CITY	SERVICE POLE: CL&P F63855	
	METERED SERVICE	

REVISION DESCRIPTION

DATE

REV.

LEGEND:
R RED ◀R RED ARROW
Y YELLOW ◀Y YELLOW ARROW
G GREEN ARROW ◀G GREEN ARROW
W Ø WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING
PROPOSED RMC
EXISTING RMC
CABLE CLOSURE
VC VIDEO CAMERA CABLE
RC RADAR CABLE
DET. LEADS IN SAW CUT
PROPOSED SUPPORT STRUCTURE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
EXISTING WOOD SPAN POLE
PEDESTAL MOUNTING
PEDESTAL MOUNTED RRFB
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON
PEDESTRIAN SIGNAL FACE
TRAFFIC SIGNAL FACE
PROPOSED HANDHOLE
EXISTING HANDHOLE
PROPOSED CONTROLLER
EXISTING CONTROLLER
AUXILIARY EQUIPMENT CABINET
OPTICAL DETECTOR
IP VIDEO DETECTOR
RADAR DETECTOR
THERMAL DETECTOR
AUDIO DETECTOR
360° CAMERA ASSEMBLY
VIDEO THERMAL DETECTOR
DETECTION ZONE
LOOP DETECTOR
RADIO ANTENNA
POLE ANCHOR

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

MEADOW STREET AT BANK STREET AND PLAZA DRIVE
TOWN(S): WATERBURY

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO.: 0151-0340

DRAWING NO.: TCS-02
SHEET NO.: 07.33

LASTED SAVED BY: sseperack FILE NAME: \\blcompanies.com\dfs\proj\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SIGNAL_151_278_Bank@Meadow.dgn
PLOTTED DATE: 8/18/2025

MOVEMENT DIAGRAM

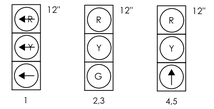
	NTOR	PHASE 1	PHASE 2 PRE-EMPT 1	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PHASE 9
		NONE	3 2 1 / 4 5							
	FLASH	GRN CL CL	GRN CL CL	GRN CL CL	GRN CL CL	GRN CL CL	GRN CL CL	GRN CL CL	LPI GRN CL CL	GRN CL CL
FACE # 1	R	←	R	R	R	R	R	R		
2	Y	G G G	G G G							
3	Y	G G G	G Y R							
4	Y	R R R	↑ Y R							
5	Y	R R R	↑ Y R							
			YIELD POINT							
MIN		5.0 3.0 1.0	10.0 3.0 1.0							
MAX		45.0 5.0 3.0	45.0 5.0 3.0							
INTERVALS MIN GRN		10	15							
WALK										
PED CLR										
VEH EXT		3	3							
MAX 1		19	23							
MAX 2		23	19							
YELLOW		3.0	3.8							
RED		1.7	1.0							
ADD INIT										
MAX INIT										
TBR										
TTR										
MIN GAP										
MODE		NON-LOCK	MIN RECALL	OFF	OFF	OFF	OFF	OFF	OFF	OFF
INIT START			THIS PHASE							

DETECTORS				SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP						PHASE SPLITS SEC / %							
IDENT	SIZE (WXI)	TYPE	MODE	MASTER V-3	PROGRAM FUNCTION	TIME	DAYS	CYCLE	OFFSET SEC	%	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
D1	6' X 40'	VIDEO-360	PRESENCE	V-1	FLASH	NONE					/	/	/	/	/	/	/	/
D2	6' X 40'	VIDEO-360	PRESENCE	V-2	MAX 1	ALL OTHER TIMES					/	/	/	/	/	/	/	/
SD1	6' X 6'	VIDEO-360	PRESENCE	V-3	MAX 2	FUTURE					/	/	/	/	/	/	/	/
SD2	6' X 6'	VIDEO-360	PRESENCE	V-4	PATTERN 1	0600-0900	M-F	50"	30	60	23/46	27/54	/	/	/	/	/	/
				V-5	PATTERN 2	1500-1900	M-F	50"	21	42	27/54	23/46	/	/	/	/	/	/

TECHNICAL NOTES	OFFICE RECORD
STANDARD OVERLAP SKIP FEATURES APPLY.	REV # TIR #151-2412-02 SM # SIGNAL REVISED:
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.	INSTALLED NEW SIGNAL EQUIPMENT UNDER CTDOT PROJECT #0151-0340.
TIMINGS SHOWN ARE FOR FREE OPERATION. ACTUAL TIMING TO BE DETERMINED BY THE CLOSED LOOP DETERMINATION UNIT.	

PRE-EMPTION SETTINGS	PRE-EMPT 1
PRIORITY	NO
DET. LOCK	YES
DELAY	0
ALT. MIN. GRN	5
ALT. YELLOW	PARENT
ALT. RED	PARENT
ALT. PED. CLR.	PARENT
HOLD GREEN	15
HOLD YELLOW	3.8
HOLD RED	1.0
HOLD PHASE	2
EXIT PHASE	1
EXIT CALL	NONE

SIGNAL FACES



ALL SIGNAL INDICATIONS HAVE LED LAMPS. ALL VEHICULAR SIGNAL FACES TO HAVE BACK PLATES WITH YELLOW RETROREFLECTIVE BORDERS.

CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW, EXCEPT WHERE NOTED.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

REMOVE ALL ABANDONDED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF WATERBURY PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH NOT LESS THAN 4 FEET. IF A MINIMUM OF 4 FEET FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE CITY OF WATERBURY.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

(H) INSTALL CONTROLLER CABINET AT 505+99, 34' LT, CONCRETE PAD TO BE INSTALLED ON DOOR SIDE BETWEEN SIDEWALK AND CONTROLLER CABINET.

(I) INSTALL MAST ARM FOUNDATION AT 505+96, 33' LT. INSTALL TRAFFIC SIGNAL WIRELESS RADIO ANTENNA ON MAST ARM.

(J) INSTALL MAST ARM FOUNDATION AT 506+37, 37' RT.

(K) DETECTION BY USE OF VIDEO-360 CAMERA ON SPAN POLE ID #050-B.

(W) 30" x 30" HANDHOLE. ALL OTHERS TYPE II.

(X) INSTALL CAST IRON HANDHOLE COVER.

DETECTOR LOCATIONS ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN THE CAMERA AND CONTROLLER CABINET.

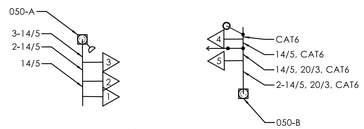
CONTRACTOR TO INSTALL INTERCONNECT EQUIPMENT BETWEEN CONTROLLER AND CENTRAL OPERATIONS CENTER. WORK TO BE PAID UNDER ITEM 1017019A - WIRELESS RADIO ASSEMBLY.

CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY.

INSTALL INTERCONNECT RISER ON CL&P #F6025 UTILITY POLE.

INSTALL A 3" RMC SWEEP AT THE SERVICE POLE AND ATTACH TO THE SERVICE CONDUIT AITH A PVC FEMALE ADAPTER. TO BE PAID FOR UNDER ITEM NO. 1017032A-SERVICE (METERED). BOND AND GROUND RMC SWEEP PER EVERSOURCE REQUIREMENTS. EVERSOURCE TO FURNISH AND INSTALL RISER AND LINE-SIDE CONDUCTORS

SERVICE CONDUIT INSTALLED UNDER THE ROADWAY SHALL BE 3" RMC. A PVC FEMALE ADAPTER SHALL BE USED TO CONNECT TO THE 3" PVC IN TRENCH.



MAST ARM DETAIL
N.T.S.

ADDITIONAL APPURTENANCE INFORMATION

QUADRANT (PLAN VIEW)	ITEM	EASTING, NORTHING
NE	CONTROLLER	919280.060656', 761685.689290'

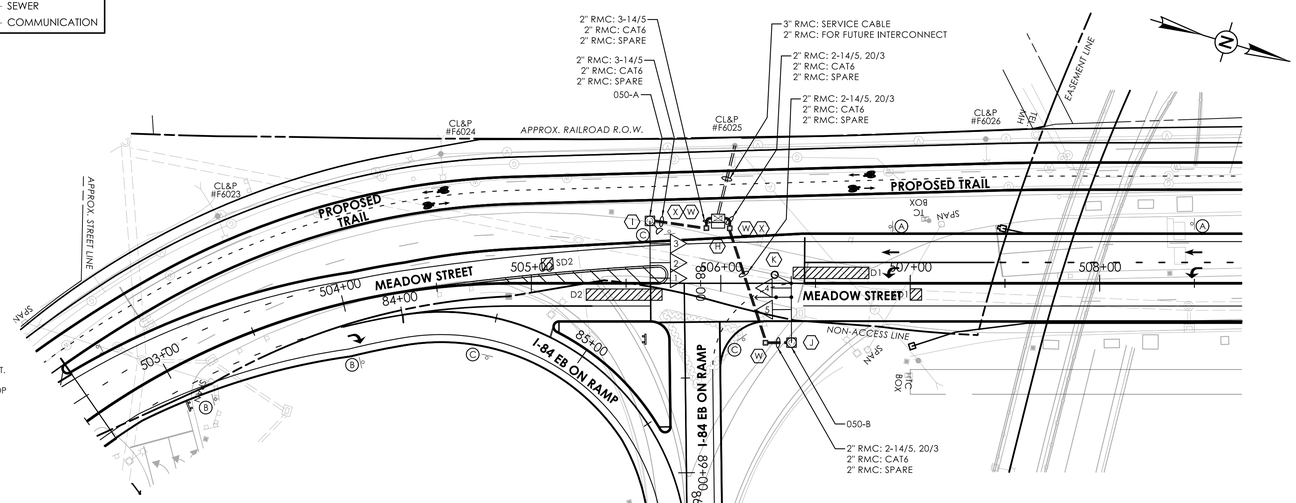
SIGN LEGEND

(A) INSTALL 31-0222z (ONLY)

(B) INSTALL 31-0223z (ONLY)

(C) INSTALL 31-1702z (NO PEDESTRIAN CROSSING)

UTILITY LEGEND
- (V) ELECTRIC POWER, LINES AND CONDUIT
- (G) GAS
- (W) WATER
- SEWER
- (T) COMMUNICATION



PAVEMENT MARKING NOTES:

SEE SEPARATE PLANS FOR PAVEMENT MARKING INFORMATION.

FUTURE INTERCONNECT NOTES:

2" RMC FOR FUTURE INTERCONNECT FOR THE CITY OF WATERBURY USE. INSTALL 20' RISER ON UTILITY POLE CL&P F6025 FOR CITY OF WATERBURY FUTURE USE.

NOTES:

CITY OF WATERBURY TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON MEADOW STREET.

STATE TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON I-84 EB ON-RAMP, AND ALL STOP BARS.

CITY OF WATERBURY TO OWN AND MAINTAIN EMERGENCY PRE-EMPTION EQUIPMENT.

(W) 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

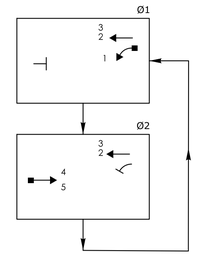
(X) CAST IRON HANDHOLE COVER

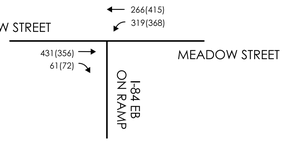
EMERGENCY PRE-EMPTION NOTES

ALL EMERGENCY PRE-EMPTION EQUIPMENT IS EXISTING. TEST PRE-EMPTION EQUIPMENT SYSTEM AFTER INSTALLATION IN ACCORDANCE WITH SPECIFICATIONS. INSTALLED EQUIPMENT SHALL BE FULLY COMPATIBLE WITH THE CITY OF WATERBURY EXISTING EMERGENCY PRE-EMPTION SYSTEM.

PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE TRAFFIC SIGNAL CONTROLLER CABINET.

SIGNAL PHASING DIAGRAM





TRAFFIC VOLUMES (2045)
AM(PM)

MAST ARM INFORMATION

ID #	APPROX. ARM ATTACHMENT HEIGHT	ARM LENGTH	YEAR INSTALLED	VERTICAL RISER FOR 360 CAMERA	EASTING, NORTHING	BEARING
050-A	*	35'	20XX	N/A	919291.743331', 761651.606153'	N72°59'55.4"E
050-B	*	35'	20XX	10'	919331.733931', 761741.690439'	S72°59'55.4"W

* TO BE DETERMINED BY THE CONTRACTOR BASED ON FIELD CONDITIONS.

Michael H Tasker
STATE OF CONNECTICUT
MICHAEL H. TASKER
34338
LICENSED PROFESSIONAL ENGINEER

FINAL DESIGN
NOT FOR CONSTRUCTION
JULY 2025

SCALE: 1" = 40'

CITY SIGNAL

	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER	BL Companies ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING			07/2025
DRAWN BY				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
APPROVED DATE				

REV #	STATE INTERSECTION # 151-304	CITY INTERSECTION # 050
ENERGY BY: CITY	ADDRESS #:	
MAINT LEVEL: CITY	SERVICE POLE: CL&P F6025	
	METERED SERVICE	

REVISION DESCRIPTION | DATE | REV.

LEGEND: FL. FLASHING; R RED; ◄R RED ARROW; Y YELLOW; ◄Y YELLOW ARROW; G GREEN; ◄ GREEN ARROW; W◊ WALK/ PED. CLR; D.W. DON'T WALK; ~~ DET. LEADS IN SAW CUT; PROPOSED RMC; EXISTING RMC; CABLE CLOSURE; VC VIDEO CAMERA CABLE; RC RADAR CABLE; PROPOSED SUPPORT STRUCTURE; EXISTING STEEL SPAN POLE; PROPOSED UTILITY POLE; EXISTING UTILITY POLE; EXISTING WOOD SPAN POLE; PEDESTAL MOUNTING; PEDESTAL MOUNTED RRFB; PEDESTRIAN PUSH BUTTON & SIGN; DIRECTIONAL ARW. FOR PUSH BUTTON; PEDESTRIAN SIGNAL FACE; TRAFFIC SIGNAL FACE; PROPOSED HANDHOLE; EXISTING HANDHOLE; PROPOSED CONTROLLER; EXISTING CONTROLLER; AUXILIARY EQUIPMENT CABINET; OPTICAL DETECTOR; IP VIDEO DETECTOR; RADAR DETECTOR; THERMAL DETECTOR; AUDIO DETECTOR; 360° CAMERA ASSEMBLY; VIDEO THERMAL DETECTOR; DETECTION ZONE; LOOP DETECTOR; RADIO ANTENNA; POLE ANCHOR

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

MEADOW STREET AT I-84 EASTBOUND ON-RAMP

TOWN(S): **WATERBURY**

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

PROJECT NO.: **0151-0340**

DRAWING NO.: **TCS-03**

SHEET NO.: **07.34**

LASTED SAVED BY: sseperack **FILE NAME:** G:\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SIGNAL_151_X50_Meadow@I84EBOnRamp.dgn
PLOTTED DATE: 8/18/2025

MOVEMENT DIAGRAM

	NTOR	PHASE 1			PHASE 2 PRE-EMPT 1			PHASE 3			PHASE 4			PHASE 5			PHASE 6 PRE-EMPT 2			PHASE 7			PHASE 8 PRE-EMPT 3				PHASE 9		
					1 1												2 2						P 3 3 P						
	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	LPI	GRN	CL	CL	GRN	CL	CL
FACE # 1	Y				G	Y	R										R	R	R				R	R	R	R			
FACE # 2	Y				R	R	R										G	Y	R				R	R	R	R			
FACE # 3	R				R	R	R										R	R	R				R	G	Y	R			
FACE # P	OFF				← DW →												← DW →						←WØ→		← DW →				
					← YIELD POINT												← YIELD POINT												
																								G W PC					
					15.0	3.0	1.0										15.0	3.0	1.0				3.0	3 5 9	3.0	1.0			
					45.0	5.0	5.0										45.0	5.0	5.0				5.0	10 45 20	5.0	3.0			
INTERVALS	MIN GRN				15												15							5					
	WALK																						4 (1)	3 (1)					
	PED CLR																							9 (2)					
	VEH EXT				3												3							3					
	MAX 1				18												18							21					
	MAX 2				18												18							21					
	YELLOW					3.9												3.9							3.0				
	RED						4.4												4.4							1.3			
	ADD INIT																												
	MAX INIT																												
	TBR																												
	TTR																												
	MIN GAP																												
	MODE	OFF			MIN RECALL			OFF			OFF			OFF			MIN RECALL			OFF			NON-LOCK				OFF		
	INIT START				THIS PHASE												THIS PHASE												

ACCESSIBLE PEDESTRIAN SIGNAL

DETECTORS

IDENT	SIZE (WXI)	TYPE	MODE
D2	6' X 40'	VIDEO-360	PRESENCE
D6	6' X 40'	VIDEO-360	PRESENCE
D6A	6' X 40'	VIDEO-360	PRESENCE
D8	6' X 40'	VIDEO-360	PRESENCE
D8A	6' X 40'	VIDEO-360	PRESENCE

SYSTEM LOC

MASTER

COORDINATION TYPE: CLOSED LOOP

PROGRAM

FUNCTION	TIME	DAYS	CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC / % Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
FLASH	NONE					/	/	/	/	/	/	/	/
MAX 1	ALL OTHER TIMES					/	/	/	/	/	/	/	/
MAX 2	FUTURE					/	/	/	/	/	/	/	/
PATTERN 1	0600-0900	M-F	50"	43	86	/ 22/44	/	/	/	/	22/44	/	28/56
PATTERN 2	1500-1900	M-F	50"	36	72	/ 22/44	/	/	/	/	22/44	/	28/56

SIGN LEGEND

(A) INSTALL 31-0290z (ONLY ONLY)

(B) INSTALL 31-0213Z ( )

(C) INSTALL 31-1625 (TURNING VEHICLES TO)

(D) INSTALL 31-0816z MOUNTED ON MAST ARM (NO TURN ON RED)

(E) INSTALL 31-1702z (NO PEDESTRIAN CROSSING)

WRONG WAY DETECTION NOTES:

SEE SEPARATE PLAN FOR WRONG WAY DETECTION DEVICES AND APPLICABLE EQUIPMENT.

PAVEMENT MARKING NOTES:

SEE SEPARATE PLAN FOR PAVEMENT MARKING INFORMATION.

FUTURE INTERCONNECT NOTES:

2" RMC FOR FUTURE INTERCONNECT FOR THE CITY OF WATERBURY USE. INSTALL 20' RISER ON UTILITY POLE CL&P F6027 FOR THE CITY OF WATERBURY FUTURE USE.

NOTES:

CITY OF WATERBURY TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON FIELD STREET AND MEADOW STREET.

CITY OF WATERBURY TO OWN AND MAINTAIN EMERGENCY PRE-EMPTION EQUIPMENT.

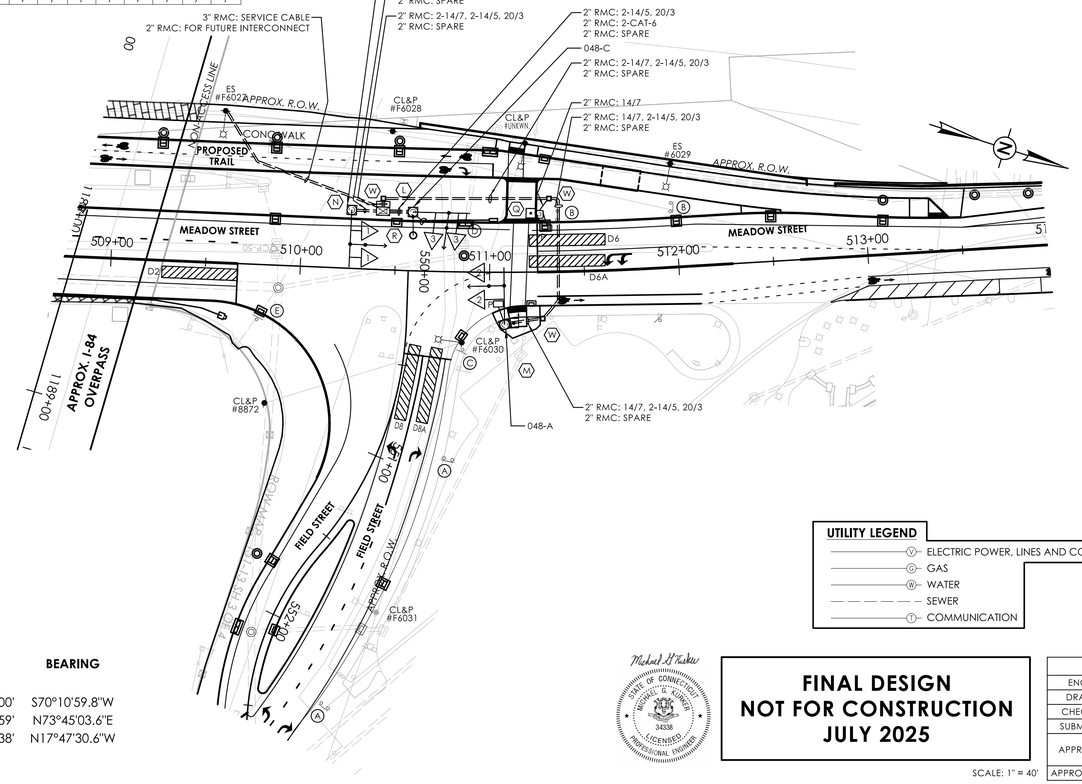
ALL CROSSWALKS ARE BAR TYPE.

(W) 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

MAST ARM INFORMATION

ID #	ARM ATTACHMENT HEIGHT	ARM LENGTH	YEAR INSTALLED	VERTICAL RISER FOR 360 CAMERA	EASTING, NORTHING	BEARING
048-A	*	30'	20XX	N/A	919190.934100', 762191.906800'	S70°10'59.8"W
048-B	*	30'	20XX	N/A	919160.306883', 762095.924759'	N73°45'03.6"E
048-C	*	30'	20XX	10'	919150.732290', 762126.773038'	N17°47'30.6"W

* TO BE DETERMINED BY THE CONTRACTOR BASED ON FIELD CONDITIONS.



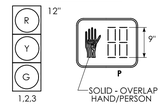
ADDITIONAL APPURTENANCE INFORMATION

QUADRANT (PLAN VIEW)	ITEM	EASTING, NORTHING
NW	CONTROLLER	919155.49085950', 762111.69584501'
NE	PEDESTAL	919130.00566836', 762190.11226858'

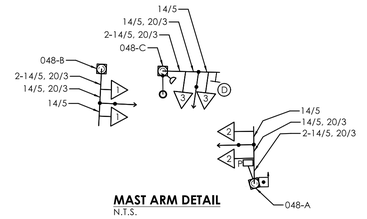
SCALE: 1" = 40'

PRE-EMPTION SETTINGS	PRE-EMPT 1	PRE-EMPT 2	PRE-EMPT 3
PRIORITY	NO	NO	NO
DET. LOCK	YES	YES	YES
DELAY	0	0	0
ALT. MIN. GRN	5	5	5
ALT. YELLOW	PARENT	PARENT	PARENT
ALT. RED	PARENT	PARENT	PARENT
ALT. PED. CLR.	PARENT	PARENT	PARENT
HOLD GREEN	15	15	15
HOLD YELLOW	3.9	3.9	3.0
HOLD RED	4.4	4.4	1.3
HOLD PHASE	2	6	8
EXIT PHASE	8	8	2&6
EXIT CALL	NONE	NONE	NONE

SIGNAL FACES



ALL SIGNAL INDICATIONS HAVE LED LAMPS.
ALL VEHICULAR SIGNAL FACES TO HAVE BACK PLATES WITH YELLOW RETROREFLECTIVE BORDERS.



MAST ARM DETAIL
N.T.S.

CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ALL PEDESTRIAN PUSH BUTTONS TO BE "ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR (TYPE A)". INSTALL SIGN NO. 31-0845 WITH APPROPRIATE ARROW AT PEDESTRIAN BUTTON LOCATIONS.

REMOVE ALL ABANDONDED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF WATERBURY PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL EQUIPMENT WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH NOT LESS THAN 4 FEET. IF A MINIMUM OF 4 FEET FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE CITY OF WATERBURY.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

ALL TRAFFIC APPURTENANCE LOCATIONS SHALL BE VERIFIED TO MAINTAIN A CLEAR PATH OF NOT LESS THAN 4 FEET ON ADJACENT SIDEWALK. IF A MINIMUM 4 FOOT PATH IS UNAVAILABLE, NOTIFY THE ENGINEER AND CONTACT THE CITY OF WATERBURY.

(L) INSTALL MAST ARM FOUNDATION AT 510+59, 31' LT. INSTALL TRAFFIC SIGNAL WIRELESS RADIO ANTENNA ON MAST ARM.

(M) INSTALL MAST ARM FOUNDATION WITH APS AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 511+15, 27' RT.

(N) INSTALL MAST ARM FOUNDATION AT 510+09, 31' LT.

(Q) INSTALL PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL AT 511+24, 31' LT.

(R) INSTALL CONTROLLER CABINET AT 510+42, 31' LT. CONCRETE PAD TO BE INSTALLED ON DOOR SIDE BETWEEN CYCLE TRACK AND CONTROLLER CABINET.

(W) 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

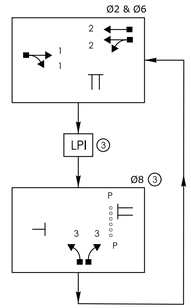
INSTALL INTERCONNECT RISER ON UTILITY POLE ES #6027.

INSTALL A 3" RMC SWEEP AT THE SERVICE POLE AND ATTACH TO THE SERVICE CONDUIT WITH A PVC FEMALE ADAPTER. TO BE PAID FOR UNDER ITEM NO. 1017032A-SERVICE (METERED). BOND AND GROUND RMC SWEEP PER EVERSOURCE REQUIREMENTS. EVERSOURCE TO FURNISH AND INSTALL THE SERVICE RISER AND LINE-SIDE CONDUCTORS.

CONTRACTOR TO INSTALL INTERCONNECT EQUIPMENT BETWEEN CONTROLLER AND CENTRAL OPERATIONS CENTER. WORK TO BE PAID UNDER ITEM NO. 1017019A - WIRELESS RADIO ASSEMBLY.

SERVICE CONDUIT INSTALLED UNDER THE ROADWAY SHALL BE 3" RMC. A PVC FEMALE ADAPTER SHALL BE USED TO CONNECT TO THE 3" PVC IN TRENCH.

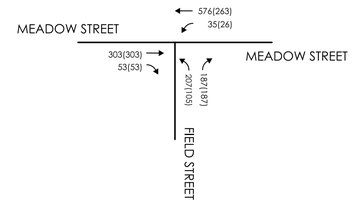
SIGNAL PHASING DIAGRAM



EMERGENCY PRE-EMPTION NOTES

ALL EMERGENCY PRE-EMPTION EQUIPMENT IS EXISTING. TEST PRE-EMPTION EQUIPMENT SYSTEM AFTER INSTALLATION IN ACCORDANCE WITH SPECIFICATIONS. INSTALLED EQUIPMENT SHALL BE FULLY COMPATIBLE WITH THE CITY OF WATERBURY EXISTING EMERGENCY PRE-EMPTION SYSTEM.

PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE TRAFFIC SIGNAL CONTROLLER CABINET.



TRAFFIC VOLUMES (2045)
AM(PM)

UTILITY LEGEND

- (V) ELECTRIC POWER, LINES AND CONDUIT
- (G) GAS
- (W) WATER
- SEWER
- (T) COMMUNICATION

TECHNICAL NOTES	OFFICE RECORD
STANDARD OVERLAP SKIP FEATURES APPLY.	REV # TIR #151-2412-03 SM # SIGNAL REVISED:
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.	INSTALLED NEW SIGNAL EQUIPMENT UNDER CTDOT PROJECT #0151-0340.
TIMINGS SHOWN ARE FOR FREE OPERATION. ACTUAL TIMING TO BE DETERMINED BY THE CLOSED LOOP DETERMINATION UNIT.	
(1) PERCUSSIVE TONE ONLY DURING LPI AND PEDESTRIAN WALK INTERVAL.	
(2) COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CHANGE INTERVAL.	
(3) LPI AND CONCURRENT PEDESTRIAN PHASE ONLY COME IN WHEN ACTUATED BY PUSH BUTTON.	
THIS INTERSECTION WIRELESSLY CONNECTED BY RADIO TO S.R. 847 (GRAND STREET / MEADOW STREET).	
FREIGHT STREET AND PRIVATE DRIVE (STATE INT #151-236).	

Michael H Tasker
STATE OF CONNECTICUT
MICHAEL H. KUSKEY
34038
LICENSED
PROFESSIONAL ENGINEER

FINAL DESIGN
NOT FOR CONSTRUCTION
JULY 2025

CITY SIGNAL

	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER				
DRAWN BY	BL Companies ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING			07/2025
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
APPROVED DATE				

REV # STATE INTERSECTION # **151-305** CITY INTERSECTION # **048**

ENERGY BY: CITY | ADDRESS #:

MAINT LEVEL: CITY | SERVICE POLE: CL&P F6027

METERED SERVICE

REVISION DESCRIPTION | DATE | REV.

LEGEND:
R RED, Y YELLOW, G GREEN
FL. FLASHING; RED ARROW; YELLOW ARROW; GREEN ARROW; W/Ø WALK/ PED. CLR; D.W. DONT WALK
DET. LEADS IN SAW CUT; PROPOSED RMC; EXISTING RMC; CABLE CLOSURE; VC VIDEO CAMERA CABLE; RC RADAR CABLE
PROPOSED SUPPORT STRUCTURE; EXISTING STEEL SPAN POLE; PROPOSED UTILITY POLE; EXISTING UTILITY POLE; EXISTING WOOD SPAN POLE
PEDESTAL MOUNTING; PEDESTAL MOUNTED RRFB; PEDESTRIAN PUSH BUTTON & SIGN; DIRECTIONAL ARW. FOR PUSH BUTTON; PEDESTRIAN SIGNAL FACE; TRAFFIC SIGNAL FACE
PROPOSED HANDHOLE; EXISTING HANDHOLE; PROPOSED CONTROLLER; EXISTING CONTROLLER; AUXILIARY EQUIPMENT CABINET; OPTICAL DETECTOR
IP VIDEO DETECTOR; RADAR DETECTOR; THERMAL DETECTOR; AUDIO DETECTOR; 360° CAMERA ASSEMBLY; VIDEO THERMAL DETECTOR
DETECTION ZONE; LOOP DETECTOR; RADIO ANTENNA; POLE ANCHOR

CTDOT
CONNECTICUT DEPARTMENT OF TRANSPORTATION

MEADOW STREET AT FIELD STREET
TOWN(S): **WATERBURY**

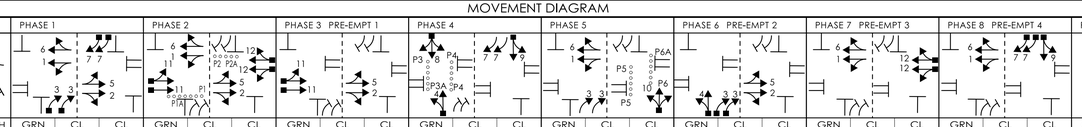
DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

PROJECT NO.: **0151-0340**

DRAWING NO.: **TCS-04**
SHEET NO.: **07.35**

LASTED SAVED BY: sseperack **FILE NAME:** G:\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SIGNAL_151_X48_Meadow@Field.dgn
PLOTTED DATE: 8/18/2025

MOVEMENT DIAGRAM



FACE #		FLASH	PHASE 1			PHASE 2			PHASE 3 PRE-EMPT 1			PHASE 4			PHASE 5			PHASE 6 PRE-EMPT 2			PHASE 7 PRE-EMPT 3			PHASE 8 PRE-EMPT 4			PHASE 9		
			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	← G	← G ④	← G ⑤	R	R	R	← G	↞ G	G	← G	↞ Y	R			
	2	Y	G	G	G	G	Y	R	G	G	G	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R			
	3	R▶	→	↠	R▶	R▶	R▶	R▶	R▶	R▶	R▶	R▶	R▶	R▶	→	→ ②	→ ③	→	↠	R▶	R▶	R▶	R▶	R▶	R▶	R▶	R▶		
	4	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	G	G	G	R	R	R	R	R	R			
	5	Y	← G	↞ G	G	G	Y	R	← G	↞ G	G	R	R	R	R	R	R	← G	↞ Y	R	R	R	R	R	R	R			
	6	Y	G	G	G	G	Y	R	R	R	R	R	R	R	G	G	G	R	R	R	G	G	G	G	Y	R			
	7	R▶	→	↠	R▶	R▶	R▶	R▶	R▶	R▶	R▶	→	↠ ①	R▶ ①	R▶	R▶	R▶	R▶	R▶	R▶	R▶	R▶	R▶	→	→	→			
	8	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			
	9	R	R	R	R	R	R	R	R	R	R	← G	Y	R	R	R	R	R	R	R	R	R	R	← G	← G	← G			
	10	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			
	11	Y	R	R	R	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			
	12	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	R	R	R			
	P1/P1A	OFF	← DW			← WØ			← DW																				
	P2/P2A	OFF	← DW			← WØ			← DW																				
	P3/P3A	OFF							← DW			← WØ			← DW														
	P4	OFF							← DW			← WØ			← DW														
	P5	OFF										← DW			← WØ			← DW											
	P6/P6A	OFF										← DW			← WØ			← DW											
						GRN WØ PC						GRN WØ PC			GRN WØ PC														
	MIN		5.0	3.0	1.0	5 7 19	3.0	1.0	10.0	3.0	1.0	10 7 20	3.0	1.0	5 7 20	3.0	1.0	5.0	3.0	1.0	5.0	3.0	1.0	5.0	3.0	1.0			
	MAX		45.0	5.0	3.0	45 10 25	5.0	3.0	45.0	5.0	3.0	45 10 25	5.0	5.0	25 10 25	5.0	3.0	45.0	5.0	3.0	45.0	5.0	3.0	45.0	5.0	3.0			
INTERVALS	MIN GRN		5			5			5			10			5			5			5			5					
	WALK					7	⑥					7	⑥		7	⑥													
	PED CLR					19	⑦ ACCESSIBLE PEDESTRIAN SIGNAL					20	⑦ ACCESSIBLE PEDESTRIAN SIGNAL		20	⑦ ACCESSIBLE PEDESTRIAN SIGNAL												
	VEH EXT		3			3			3			3			3			3			3			3					
	MAX 1		16			16			25			16			11			25			25			25					
	MAX 2		16			16			25			16			11			25			25			25					
	YELLOW			3.0			3.4			3.0			3.0			3.2			3.0			3.0			3.0				
	RED				2.5			1.1			2.0			1.0			1.0			1.0			1.0			1.0			
	ADD INIT																												
	MAX INIT																												
	TBR																												
	TTR																												
	MIN GAP																												
MODE			NON-LOCK			MIN RECALL			ON/OMIT			NON-LOCK			NON-LOCK			ON/OMIT			ON/OMIT			ON/OMIT			OFF		
INIT START			THIS PHASE																										

DETECTORS			
IDENT	SIZE (WXI)	TYPE	MODE
D1	6' x 40'	360° VIDEO	PRESENCE
D2	6' x 40'	360° VIDEO	PRESENCE
D2A	6' x 40'	360° VIDEO	PRESENCE
D2B	6' x 40'	360° VIDEO	PRESENCE
D2C	6' x 40'	360° VIDEO	PRESENCE
D2D	6' x 40'	360° VIDEO	PRESENCE
D2E	6' x 40'	360° VIDEO	PRESENCE
D2F	6' x 40'	360° VIDEO	PRESENCE
D2G	6' x 40'	360° VIDEO	PRESENCE
D4	6' x 40'	360° VIDEO	PRESENCE
D4A	6' x 40'	360° VIDEO	PRESENCE
D4B	6' x 40'	360° VIDEO	PRESENCE
D4C	6' x 40'	360° VIDEO	PRESENCE
D4D	6' x 40'	360° VIDEO	PRESENCE
D4E	6' x 40'	360° VIDEO	PRESENCE
D5	6' x 40'	360° VIDEO	PRESENCE

SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP												
MASTER	PROGRAM				OFFSET		PHASE SPLITS SEC / %						
	FUNCTION	TIME	DAYS	CYCLE	SEC	%	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
	FLASH	NONE					/	/	/	/	/	/	/	/
	MAX 1	ALL OTHER TIMES					/	/	/	/	/	/	/	/
	MAX 2	FUTURE					/	/	/	/	/	/	/	/
	PATTERN 1	0600-0900	M-F	100	52	52	26/26	37/37	/	31/31	9/9	/	/	/
	PATTERN 2	1500-1900	M-F	100	57	57	16/16	41/41	/	31/31	11/11	/	/	/

ADDITIONAL APPURTENANCE INFORMATION

QUADRANT	ITEM	EASTING, NORTHING
SE	CONTROLLER	918875.762984', 763337.657906'

SIGN LEGEND

- (A) INSTALL 31-0816z (NO TURN ON RED) MOUNTED ON MAST ARM
- (B) INSTALL 31- 0353 (ONLY)
- (C) INSTALL 31- 0353z (ONLY)
- (D) INSTALL 31-1627z
- (E) INSTALL 31-1626z MOUNTED ON MAST ARM/SPAN
- (F) INSTALL 31-1625z MOUNTED ON MAST ARM/SPAN
- (G) INSTALL 31-0552 INSTALL 31-1629 (STOP)
- (H) INSTALL 31-1119 (DO NOT ENTER)
- (I) INSTALL 31-1625z (TURNING VEHICLES)
- (J) INSTALL 31-1626 (TURNING VEHICLES)

NOTES:

STATE TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON S.R. 847 (GRAND STREET/MEADOW STREET).

CITY OF WATERBURY TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON FREIGHT STREET AND MEADOW STREET.

ALL CROSSWALKS ARE BAR TYPE.

(W) 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

(X) CAST IRON HANDHOLE COVER.

FUTURE INTERCONNECT NOTES:

2" RMC FOR FUTURE INTERCONNECT FOR CITY OF WATERBURY USE. INSTALL 2" RMC CONDUIT BETWEEN CONTROLLER CABINET AND ADJACENT COMMUNICATIONS MANHOLE.

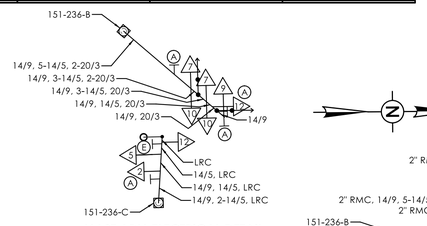
PAVEMENT MARKING NOTES:

SEE SEPARATE PLAN FOR PAVEMENT MARKING INFORMATION.

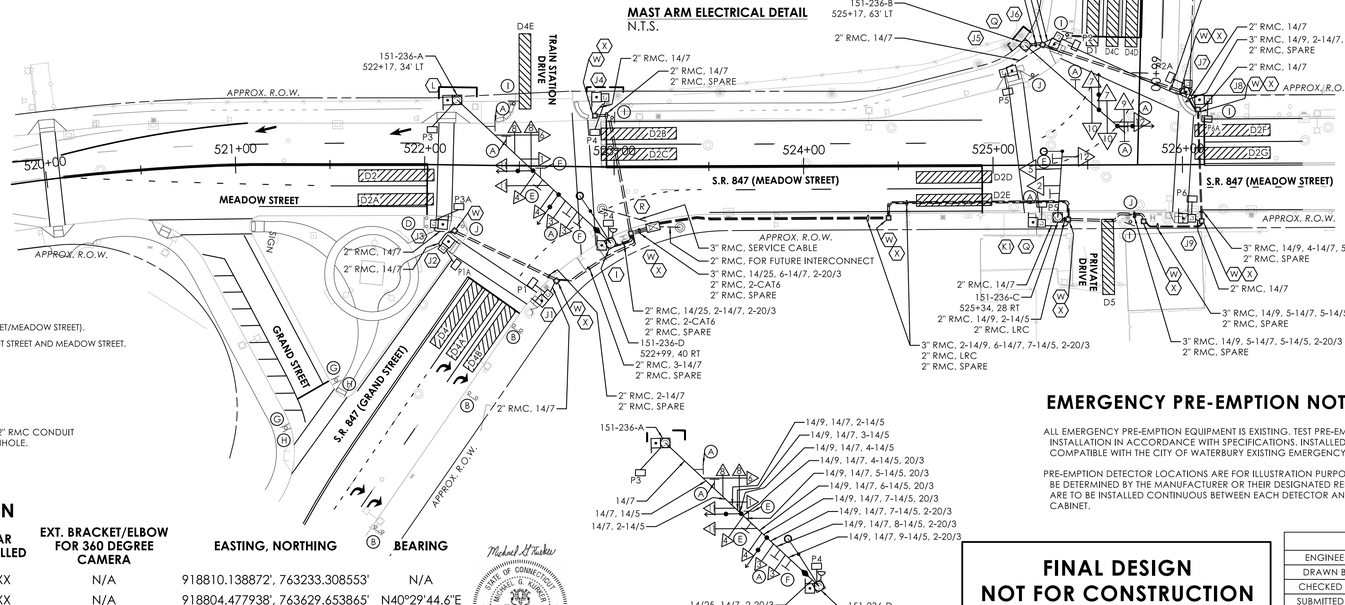
MAST ARM/SPAN POLE INFORMATION

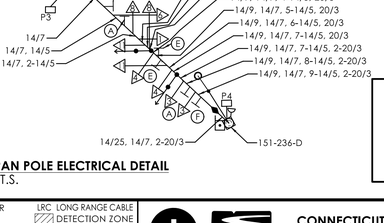
ID #	TYPE	APPROX. ARM ATTACHMENT HEIGHT	ARM LENGTH	YEAR INSTALLED	EXT. BRACKET/ELBOW FOR 360 DEGREE CAMERA	EASTING, NORTHING	BEARING
151-236-A	SPAN POLE	30' POLE	N/A	20XX	N/A	918810.138872', 763233.308553'	N/A
151-236-B	MAST ARM	*	70'	20XX	N/A	918804.477938', 763629.653865'	N40°29'44.6"E
151-236-C	MAST ARM	*	35'	20XX	N/A	918867.725607', 763551.160774'	N86°45'21.7"W
151-236-D	SPAN POLE	30' POLE	N/A	20XX	20' BRACKET/3' ELBOW	918884.586116', 763315.393523'	N/A

*TO BE CALCULATED BY THE CONTRACTOR BASED ON FIELD CONDITIONS



MAST ARM ELECTRICAL DETAIL
N.T.S.

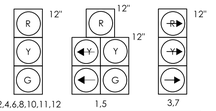




SPAN POLE ELECTRICAL DETAIL
N.T.S.

Michael K. Fuller
STATE OF CONNECTICUT
MICHAEL K. FULLER
34338
LICENSED PROFESSIONAL ENGINEER

SIGNAL FACES



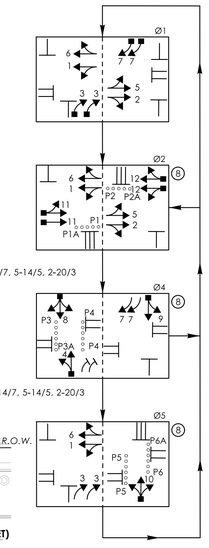




ALL SIGNAL INDICATIONS HAVE LED LAMPS. ALL VEHICULAR SIGNAL FACES TO HAVE BACK PLATES WITH YELLOW RETROREFLECTIVE BORDERS.

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.	PARENT	PARENT	PARENT	PARENT
HOLD GREEN	25	25	25	25
HOLD YELLOW	3.0	3.0	3.0	3.0
HOLD RED	2.0	1.0	1.0	1.0
HOLD PHASE	3	6	7	8
EXIT PHASE	2	4	2	4
EXIT CALL	NONE	NONE	NONE	NONE

SIGNAL PHASING DIAGRAM



EMERGENCY PRE-EMPTION NOTES

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FINAL DESIGN
NOT FOR CONSTRUCTION
JULY 2025

SCALE: 1" = 40'

TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY.
PHASE 2 ON TO OMIT PHASE 1.
(1) TO BE → IF PHASE 1 IS NEXT.
(2) TO BE ↠ IF PHASE 2 IS NEXT.
(3) TO BE R▶ IF PHASE 2 IS NEXT.
(4) TO BE ↞ G IF PHASE 2 IS NEXT.
(5) TO BE G IF PHASE 2 IS NEXT.
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
TIMINGS SHOWN ARE FOR FREE OPERATION. ACTUAL TIMING TO BE DETERMINED BY THE CLOSED LOOP DETERMINATION UNIT.
(6) PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.
(7) COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CHANGE INTERVAL.
(8) CONCURRENT PED PHASE ONLY COMES IN WHEN ACTUATED BY ASSOCIATED PUSH BUTTON.
THIS INTERSECTION WIRELESSLY CONNECTED BY RADIO TO MEADOW STREET AT FIELD STREET (STATE INT #151-305).

OFFICE RECORD	
REV #	TIR #151-2412-04 SM # SIGNAL REVISED:
INSTALLED NEW SIGNAL EQUIPMENT UNDER CTDOT PROJECT #0151-0340.	

CONSTRUCTION NOTES

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STAKE ALL R.O.W. PRIOR TO EXCAVATION.

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ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF WATERBURY PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL EQUIPMENT WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH NOT LESS THAN 4 FEET. IF A MINIMUM OF 4 FEET FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE CITY OF WATERBURY.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

ALL TRAFFIC APPURTENANCE LOCATIONS SHALL BE VERIFIED TO MAINTAIN A CLEAR PATH OF NOT LESS THAN 4 FEET ON ADJACENT SIDEWALK. IF A MINIMUM 4 FOOT PATH IS UNAVAILABLE, NOTIFY THE ENGINEER AND CONTACT THE CITY OF WATERBURY.

(I) INSTALL NEW SPAN POLE FOUNDATION AT LOCATION SHOWN. INSTALL TRAFFIC SIGNAL WIRELESS RADIO ANTENNA ON SPAN POLE SHAFT.

(J1) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 522+66, 68 RT.

(J2) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 522+09, 46 RT.

(J3) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 522+02, 31 RT.

(J4) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 522+83, 37 LT.

(J5) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 525+08, 53 LT.

(J6) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 525+23, 62 LT.

(J7) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 526+03, 43 LT.

(J8) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 526+14, 34 LT.

(J9) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 526+05, 26 RT.

(K) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 525+26, 31' RT.

(L) INSTALL NEW SPAN POLE FOUNDATION WITH APS AND PEDESTRIAN COUNTDOWN SIGNAL AT BACK OF WALK AT LOCATION SHOWN.

(Q) INSTALL NEW MAST ARM FOUNDATION AT LOCATION SHOWN.

(R) INSTALL CONTROLLER CABINET AT 523+20, 32' RT.

(W) 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

(X) INSTALL CAST IRON HANDHOLE COVER.

VIDEO DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE CONTROLLER CABINET.

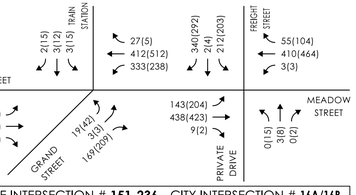
CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS.

SERVICE CONDUIT INSTALLED UNDER ROADWAY SHALL BE 3" RMC. A PVC FEMALE ADAPTER SHALL BE USED TO CONNECT TO THE 3" PVC IN TRENCH.

CONTRACTOR TO INSTALL INTERCONNECT EQUIPMENT BETWEEN CONTROLLER AND CENTRAL OPERATIONS CENTER. WORK TO BE PAID UNDER ITEM NO. 1017019A - WIRELESS RADIO ASSEMBLY.

TEMPORARILY RELOCATE EXISTING CONTROLLER TO FACILITATE INSTALLATION OF NEW SPAN POLE FOUNDATION 151-236-D ADJACENT TO EXISTING STEEL SPAN POLE .

TRIM TREE BRANCHES/VEGETATION TO FACILITATE THE INSTALLATION OF SPAN POLE 151-236-A. WORK TO BE PAID UNDER ITEM NO. 0952001A – SELECTIVE CLEARING AND THINNING.



TRAFFIC VOLUMES (2045)
AM(PM)

	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER	BL Companies ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING			07/2025
DRAWN BY				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
APPROVED DATE				

CITY SIGNAL

REV #	STATE INTERSECTION # 151-236	CITY INTERSECTION # 16A/16B
ENERGY BY: CITY	ADDRESS #: EVERSOURCE M.H.	
MAINT LEVEL: 2	SERVICE POLE: UNDERGROUND	
	METERED SERVICE	

REVISION DESCRIPTION | DATE | REV.

LEGEND:
R RED, Y YELLOW, G GREEN
FL. FLASHING, R▶ RED ARROW, ↠ YELLOW ARROW, ◀ GREEN ARROW, W/Ø WALK/ PED. CLR, D.W. DON'T WALK
~ ~ DET. LEADS IN SAW CUT, — — PROPOSED RMC, •-•-• EXISTING RMC, CABLE CLOSURE, VC VIDEO CAMERA CABLE, RC RADAR CABLE
PROPOSED SUPPORT STRUCTURE, EXISTING STEEL SPAN POLE, PROPOSED UTILITY POLE, EXISTING UTILITY POLE, EXISTING WOOD SPAN POLE
PEDESTAL MOUNTING, PEDESTAL MOUNTED RRFB, PEDESTRIAN PUSH BUTTON & SIGN, DIRECTIONAL ARRW. FOR PUSH BUTTON, PEDESTRIAN SIGNAL FACE, TRAFFIC SIGNAL FACE
PROPOSED HANDHOLE, EXISTING HANDHOLE, PROPOSED CONTROLLER, EXISTING CONTROLLER, AUXILIARY EQUIPMENT CABINET, OPTICAL DETECTOR
IP VIDEO DETECTOR, RADAR DETECTOR, THERMAL DETECTOR, AUDIO DETECTOR, 360° CAMERA ASSEMBLY, VIDEO THERMAL DETECTOR
LRC LONG RANGE CABLE, DETECTION ZONE, LOOP DETECTOR, RADIO ANTENNA, POLE ANCHOR

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

S.R. 847 (GRAND STREET/MEADOW STREET) AT MEADOW STREET, FREIGHT STREET, AND PRIVATE DRIVE
TOWN(S): WATERBURY

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**
PROJECT NO.: **0151-0340**
DRAWING NO.: **TCS-05**
SHEET NO.: **07.36**

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOBS22\14\22015571+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SIGNAL_151_236_Meadow at Freight and Grand.dgn
PLOTTED DATE: 8/18/2025

MOVEMENT DIAGRAM

	NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4 PRE-EMPT #2	PHASE 5	PHASE 6 PRE-EMPT #1	PHASE 7	PHASE 8	PHASE 9
			1 P1A P1		P3A P3A 4 3 P3A P3		P2 P2 2			
	FLASH	GRN CL CL	LPI GRN CL CL	GRN CL CL	LPI GRN CL CL	GRN CL CL	LPI GRN CL CL	GRN CL CL	GRN CL CL	GRN CL CL
FACE # 1	Y		R G Y R		R R R R		R R R R			
FACE # 2	Y		R R R R		R R R R		R G Y R			
FACE # 3	R		R R R R		R G Y R		R R R R			
FACE # 4	R		R R R R		R G Y R		R R R R			
			← YIELD POINT		← YIELD POINT					
P1/P1A	OFF		←W Ø→ ←DW→		←DW→		←DW→			
P2	OFF		←DW→		←DW→		←W Ø→ ←DW→			
P3/P3A	OFF		←DW→		←W Ø→ ←DW→		←DW→			
			G W PC		G W PC		G W PC			
MIN			3.0 10 3 10	3.0 1.0	3.0 6 3 7	3.0 1.0	3.0 10 3 10	3.0 1.0		
MAX			5.0 45 10 20	5.0 3.0	5.0 45 10 20	5.0 3.0	5.0 45 10 20	5.0 3.0		
INTERVALS MIN GRN			15		9		15			
WALK			4 (1) 3 (1)		4 (2) 3 (2)		4 (3) 3 (3)			
PED CLR			10 (4) ACCESSIBLE PEDESTRIAN SIGNAL		7 (4) ACCESSIBLE PEDESTRIAN SIGNAL		10 (4) ACCESSIBLE PEDESTRIAN SIGNAL			
VEH EXT			3		3		3			
MAX 1			24		19		24			
MAX 2										
YELLOW			3.0		3.9		3.0			
RED			2.0		1.9		2.0			
ADD INIT										
MAX INIT										
TBR										
TTR										
MIN GAP										
MODE		OFF	MIN RECALL	OFF	NON-LOCK	OFF	MIN RECALL	OFF	OFF	OFF
INT START			THIS PHASE		THIS PHASE		THIS PHASE			

DETECTORS

IDENT	SIZE (WXI)	TYPE	MODE
D2, D2A	6'x40'	VIDEO - 360	PRESENCE
D4 , D4A	6'x40'	VIDEO - 360	PRESENCE

SYSTEM LOC — MASTER

COORDINATION TYPE: CLOSED LOOP

PROGRAM FUNCTION	TIME	DAYS	CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC / % Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
FLASH	NONE					/	/	/	/	/	/	/	/
MAX 1	ALL OTHER TIMES					/	/	/	/	/	/	/	/
MAX 2	FUTURE					/	/	/	/	/	/	/	/
PATTERN 1	0600-0900	M-F	50"	40"	80%	/ 28/56	/ 22/44	/	/	/	/	/	/
PATTERN 2	1500-1900	M-F	50"	4"	8%	/ 29/58	/ 21/42	/	/	/	/	/	/

SIGN LEGEND

(A) INSTALL 31-0830z (NO TURN ON RED)

(B) INSTALL 31-1626z (TURNING VEHICLES TO)

(C) INSTALL 31-1625z MOUNTED ON MAST ARM (TURNING VEHICLES TO)

PAVEMENT MARKING NOTES:

SEE SEPARATE PLAN FOR PAVEMENT MARKING INFORMATION.

FUTURE INTERCONNECT NOTES:

2" RMC FOR FUTURE INTERCONNECT FOR CITY OF WATERBURY USE. INSTALL 20' RMC RISER ON UTILITY POLE ES #7550 FOR CITY OF WATERBURY FUTURE USE.

NOTES:

CITY OF WATERBURY TO OWN AND MAINTAIN EMERGENCY PRE-EMPTION EQUIPMENT.

ALL CROSSWALKS ARE BAR TYPE.

STATE TO MAINTAIN SIGNS AND PAVEMENT MARKINGS ON SOUTH MAIN STREET AND ALL STOP BARS.

CITY OF WATERBURY TO MAINTAIN SIGNS AND ALL OTHER PAVEMENT MARKINGS ON WEST LIBERTY STREET AND EAST LIBERTY STREET.

(W) 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

(X) CAST IRON HANHDOLE COVER.

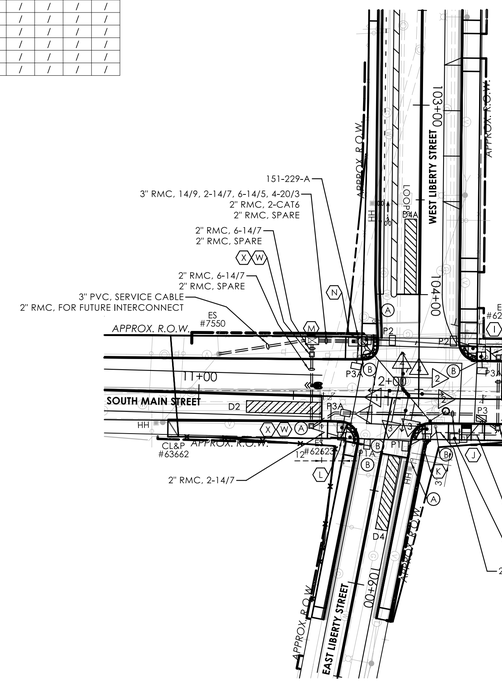
ADDITIONAL APPURTENANCE INFORMATION

QUADRANT	ITEM	EASTING, NORTHING
NW	CONTROLLER	921083.317813', 760430.679680'

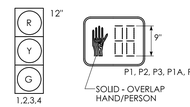
MAST ARM INFORMATION

ID #	APPROX. ARM ATTACHMENT HEIGHT	ARM LENGTH	YEAR INSTALLED	VERTICAL RISER FOR 360 CAMERA	EASTING, NORTHING	BEARING
151-229-A	*	55'	20XX	10'	921079.184288', 760457.120298'	N39°41'00.2"E

* TO BE CALCULATED BY THE CONTRACTOR BASED ON FIELD CONDITIONS.

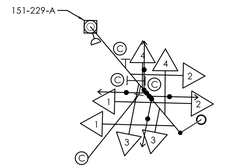


SIGNAL FACES

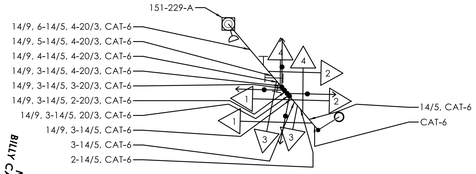


ALL SIGNAL INDICATIONS HAVE LED LAMPS.
ALL VEHICULAR SIGNAL FACES TO HAVE BACK PLATES WITH YELLOW RETROREFLECTIVE BORDERS.

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.	PARENT	PARENT
HOLD GREEN	15	15
HOLD YELLOW	3.0	3.9
HOLD RED	2.0	1.9
HOLD PHASE	6	4
EXIT PHASE	4	6
EXIT CALL	NONE	NONE

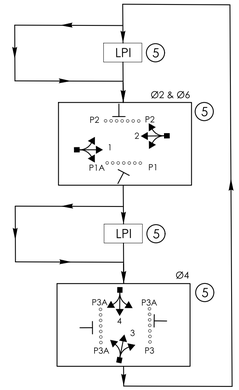


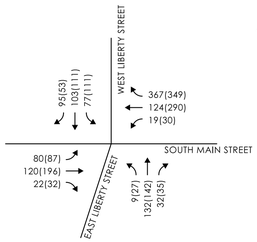
MAST ARM SIGN DETAIL
N.T.S



MAST ARM ELECTRICAL DETAIL
N.T.S

SIGNAL PHASING DIAGRAM





TRAFFIC VOLUMES (2045)
AM(PM)

CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW, EXCEPT WHERE NOTED.

STAKE AL R.O.W. PRIOR TO EXCAVATION.

ALL PEDESTRIAN PUSH BUTTONS TO BE "ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR (TYPE A)". INSTALL SIGN NO. 31-0845 WITH APPROPRIATE ARROW AT PEDESTRIAN BUTTON LOCATIONS.

REMOVE ALL ABANDONDED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF WATERBURY PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL EQUIPMENT WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH NOT LESS THAN 4 FEET. IF A MINIMUM OF 4 FEET FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE CITY OF WATERBURY.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

ALL TRAFFIC APPURTENANCE LOCATIONS SHALL BE VERIFIED TO MAINTAIN A CLEAR PATH OF NOT LESS THAN 4 FEET ON ADJACENT SIDEWALK. IF A MINIMUM 4 FOOT PATH IS UNAVAILABLE, NOTIFY THE ENGINEER AN CONTACT THE CITY OF WATERBURY.

TEMPORARILY RELOCATE EXISTING CONTROLLER TO FACILITATE INSTALLATION OF NEW CONTROLLER CABINET AND FOUNDATION UNTIL NEW CONTROLLER IS IN OPERATION.

(I) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND TWO-WAY PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 12+49, 27' LT.

(J) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND ONE-WAY PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 12+40, 21' RT.

(K) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND ONE-WAY PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 12+21, 21' RT.

(L) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND TWO-WAY PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 11+76, 21' RT.

(M) INSTALL CONTROLLER CABINET AT 11+59, 29' LT.

(N) INSTALL MAST ARM FOUNDATION WITH APS AND TWO ONE-WAY PEDESTRIAN COUNTDOWN SIGNALS AT 11+86, 29' LT. INSTALL TRAFFIC SIGNAL WIRELESS RADIO ANTENNA ON MAST ARM.

(W) 30" X 30" HANDHOLE, ALL OTHERS TYPE II.

(X) INSTALL CAST IRON HANDHOLE COVER.

CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS.

DETECTOR LOCATIONS ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE CONTROLLER CABINET.

INSTALL INTERCONNECT RISER ON ES #7550 UTILITY POLE.

INSTALL 3" RMC SWEEP AT THE SERVICE POLE AND ATTCHED TO THE SERVICE CONDUIT WITH A PVC FEMALE ADAPTER. TO BE PAID FOR UNDER ITEM NO. 1017032A-SERVICE (METERED). BOND AND GROUND RMC SWEEP PER EVERSOURCE REQUIREMENTS. EVERSOURCE TO FURNISH AND INSTALL THE SERVICE RISER AND LINE-SIDE CONDUCTORS.

CONTRACTOR TO INSTALL INTERCONNECT EQUIPMENT BETWEEN CONTROLLER AND CENTRAL OPERATIONS CENTER. WORK TO BE PAID UNDER ITEM NO. 1017019A - WIRELESS RADIO ASSEMBLY.

EMERGENCY PRE-EMPTION NOTES

ALL EMERGENCY PRE-EMPTION EQUIPMENT IS EXISTING. TEST PRE-EMPTION EQUIPMENT SYSTEM AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS. INSTALLED EQUIPMENT SHALL BE FULLY COMPATIBLE WITH THE CITY OF WATERBURY EXISTING EMERGENCY PRE-EMPTION SYSTEM.

PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE TRAFFIC SIGNAL CONTROLLER CABINET.

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY.

PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.

TIMINGS SHOWN ARE FOR FREE OPERATION. ACTUAL TIMING TO BE DETERMINED BY THE CLOSED LOOP DETERMINATION UNIT.

(1) PERCUSSIVE TONE ONLY DURING LPI & PEDESTRIAN WALK INTERVAL FOR P1 BUTTON. SPEECH MESSAGE "EAST LIBERTY. WALK SIGN IS ON TO CROSS EAST LIBERTY". DURING LPI & PEDESTRIAN WALK INTERVAL FOR P1A BUTTON."

(2) PERCUSSIVE TONE ONLY DURING LPI & PEDESTRIAN WALK INTERVAL FOR P3 BUTTON. SPEECH MESSAGE "SOUTH MAIN. WALK SIGN IS ON TO CROSS SOUTH MAIN". DURING LPI & PEDESTRIAN WALK INTERVAL FOR P3A BUTTON.

(3) SPEECH MESSAGE "WEST LIBERTY. WALK SIGN IS ON FOR WEST LIBERTY." DURING LPI AND PEDESTRIAN WALK INTERVAL FOR P2 BUTTON.

(4) COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CHANGE INTERVAL.

THIS INTERSECTION WIRELESSLY CONNECTED BY RADIO TO S.R. 847 (SOUTH MAIN STREET) AT SOUTH ELM STREET, EAST CLAY STREET, AND WEST CLAY STREET (STATE INT #151-212).

OFFICE RECORD

REV # TIR # SM # SIGNAL REVISED: TIR NO. 151-2412-05

INSTALLED NEW SIGNAL EQUIPMENT UNDER CTDOT PROJECT #0151-0340.



UTILITY LEGEND

- (V) ELECTRIC POWER, LINES AND CONDUIT
- (G) GAS
- (W) WATER
- SEWER
- (T) COMMUNICATION

FINAL DESIGN
NOT FOR CONSTRUCTION
JULY 2025

SCALE: 1"=40'

CITY SIGNAL

	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER				
DRAWN BY	BL Companies ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING			07/2025
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
APPROVED DATE				

REV #	STATE INTERSECTION # 151-229	CITY INTERSECTION # 020
ENERGY BY: CITY	ADDRESS #:	
MAINT LEVEL: CITY	SERVICE POLE: ES #7550	
	METERED SERVICE	

REVISION DESCRIPTION / DATE / REV.

LEGEND: FL. FLASHING; R RED; Y YELLOW; G GREEN; ◄R RED ARROW; ◄Y YELLOW ARROW; ◄► GREEN ARROW; W/Ø WALK/ PED. CLR; D.W. DON'T WALK; ~~ DET. LEADS IN SAW CUT; — PROPOSED RMC; -●-●- EXISTING RMC; ◄► CABLE CLOSURE; VC VIDEO CAMERA CABLE; RC RADAR CABLE; PROPOSED SUPPORT STRUCTURE; EXISTING STEEL SPAN POLE; PROPOSED UTILITY POLE; EXISTING UTILITY POLE; EXISTING WOOD SPAN POLE; PEDESTAL MOUNTING; PEDESTAL MOUNTED RRFB; PEDESTRIAN PUSH BUTTON & SIGN; DIRECTIONAL ARRW. FOR PUSH BUTTON; PEDESTRIAN SIGNAL FACE; TRAFFIC SIGNAL FACE; PROPOSED HANDHOLE; EXISTING HANDHOLE; PROPOSED CONTROLLER; EXISTING CONTROLLER; AUXILIARY EQUIPMENT CABINET; OPTICAL DETECTOR; IP VIDEO DETECTOR; RADAR DETECTOR; THERMAL DETECTOR; AUDIO DETECTOR; 360° CAMERA ASSEMBLY; VIDEO THERMAL DETECTOR; DETECTION ZONE; LOOP DETECTOR; RADIO ANTENNA; POLE ANCHOR

CTDOT — CONNECTICUT DEPARTMENT OF TRANSPORTATION

S.R. 847 (SOUTH MAIN STREET) AT WEST LIBERTY STREET AND EAST LIBERTY STREET

TOWN(S): **WATERBURY**

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

PROJECT NO.: **0151-0340**

DRAWING NO.: **TCS-06**

SHEET NO.: **07.37**

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SIGNAL_151_229_S Main @ W Liberty and E Liberty.dgn
PLOTTED DATE: 8/18/2025

MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2 PRE-EMPT 4	PHASE 3 PRE-EMPT 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7 PRE-EMPT 1	PHASE 8 PRE-EMPT 2	PHASE 9
	P1 P1A P1C P1B P2D P2E	P2 P2A P2C P2D P2B P2E	P3 P3A						

		FLASH	LPI	GRN	CL	CL	LPI	GRN	CL	CL	LPI	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
FACE #	1	Y	R	G	Y	R	R	R	R	R	R	R	R	R							G	Y	R	R	R	R			
	2	Y	R	G	Y	R	R	R	R	R	R	R	R	R							R	R	R	G	Y	R			
	3	R	R	R	R	R	R	G	Y	R	R	R	R	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			
	5	R	R	R	R	R	R	R	R	R	R	G	Y	R							R	R	R	R	R	R			
	6	R	R	R	R	R	R	G	Y ⑦	R ⑦	R ⑦	G	Y	R							R	R	R	R	R	R			
	P1/P1A	OFF	◀WØ	▶									DW	▶							DW	▶							
	P1B/P1C	OFF	◀WØ	▶									DW	▶							DW	▶							
	P2/P2C	OFF	◀		DW	▶	◀WØ	▶					DW	▶							DW	▶							
	P2A/P2B	OFF	◀		DW	▶	◀WØ	▶					DW	▶							DW	▶							
	P2D/P2E	OFF	◀WØ	▶	DW	▶	◀WØ	▶					DW	▶							DW	▶							
	P3/P3A	OFF	◀		DW	▶			◀WØ	▶			DW	▶															
			G	W	P	C			G	W	P	C																	
	MIN		3.0	7	10	13	3.0	1.0	3.0	7	5	7	3.0	1.0	3.0	7	5	6	3.0	1.0									
	MAX		5.0	10	50	20	5.0	4.0	5.0	10	50	20	5.0	4.0	5.0	10	50	20	5.0	3.0									
INTERVALS	MIN GRN			15				5				5									15			15					
	WALK		4	3	①②⑤		4	3	②③		4	3	④																
	PED CLR			13	⑤			7	⑤			6	⑤																
	VEH EXT			2	ACCESSIBLE PEDESTRIAN SIGNAL			2	ACCESSIBLE PEDESTRIAN SIGNAL			2	ACCESSIBLE PEDESTRIAN SIGNAL																
	MAX 1			37				15				15									15			15					
	MAX 2			37				15				15									15			15					
	YELLOW				3.2				4.0				3.9						3.2				3.5			3.2			3.5	
	RED					3.5				3.3				2.3						3.5									
	ADD INIT																												
	MAX INIT																												
	TBR																												
	TTR																												
	MIN GAP																												
MODE			MIN RECALL				NON-LOCK				NON-LOCK				OFF			OFF			OFF			ON/OMIT			ON/OMIT			OFF		
INIT START			THIS PHASE																										

DETECTORS			
IDENT	SIZE (WXI)	TYPE	MODE
D2, D2A	6' x 40'	VIDEO-360	PRESENCE
D4	6' x 40'	VIDEO-360	PRESENCE
D5	6' x 40'	VIDEO-360	PRESENCE
D6	6' x 40'	VIDEO-360	PRESENCE

SYSTEM LOC: MASTER

COORDINATION TYPE: CLOSED LOOP

PROGRAM				OFFSET		PHASE SPLITS SEC / %							
FUNCTION	TIME	DAYS	CYCLE	SEC	%	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
FLASH	NONE					/	/	/	/	/	/	/	/
MAX 1	ALL OTHER TIMES					/	/	/	/	/	/	/	/
MAX 2	FUTURE					/	/	/	/	/	/	/	/
PATTERN 1	0600-0900	M-F	100"	42"	42%	50/50	25/25	25/25	/	/	/	/	/
PATTERN 2	1500-1900	M-F	100"	59"	59%	48/48	27/27	25/25	/	/	/	/	/

ADDITIONAL APPURTENANCE INFORMATION

QUADRANT	ITEM	EASTING, NORTHING
SE	CONTROLLER	921014.305050', 761192.964153'

SIGN LEGEND

- (A) INSTALL 31-0816z MOUNTED ON MAST ARM (NO TURN ON RED)
- (B) INSTALL 31-0290z (ONLY ONLY)
- (C) INSTALL 31-1121z (DO NOT ENTER)
- (D) INSTALL 31-1627z ( )
- (E) INSTALL 31-1626z MOUNTED ON SPAN WIRE (TURNING VEHICLES TO)
- (F) INSTALL 31-1626z MOUNTED ON MAST ARM (TURNING VEHICLES TO)
- (G) INSTALL 31-1123z (WRONG WAY)
- (H) INSTALL 31-1178 31-1189 (ONE WAY ONE WAY)

NOTES

ALL CROSSWALKS ARE BAR TYPE.

STATE TO MAINTAIN SIGNS AND PAVEMENT MARKINGS ON SR 847 (SOUTH MAIN STREET) EXCEPT PARKING LANE LINES AND SHARED LANE SYMBOL MARKINGS.

CITY OF WATERBURY TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON SOUTH ELM STREET, EAST CLAY STREET, AND PARKING LANE LINES AND SHARED LANE SYMBOL MARKINGS ON SR 847 (SOUTH MAIN STREET).

CITY OF WATERBURY TO OWN AND MAINTAIN EMERGENCY PRE-EMPTION EQUIPMENT.

(W) 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

(X) CAST ITRON HANDHOLE COVER.

PAVEMENT MARKING NOTES

SEE SEPARATE PLANS FOR PAVEMENT MARKING INFORMATION.

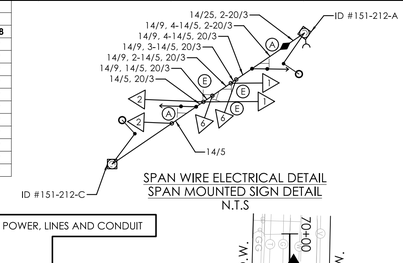
FUTURE INTERCONNECT NOTES

2" RMC FOR FUTURE INTERCONNECT FOR CITY OF WATERBURY USE. UNSTALL 20' RMC RISER ON UTILITY POLE CL&P #3783 FOR CITY OF WATERBURY FUTURE USE.

SPAN POLE/MAST ARM INFORMATION

ID #	TYPE	APPROX. ARM ATTACHMENT HEIGHT	ARM LENGTH	BOLT CIRCLE	EXT. BRACKET/ELBOW FOR 360 DEGREE CAMERA	YEAR INSTALLED	EASTING, NORTHING	BEARING
151-212-A	SPAN POLE	30' POLE	N/A	24"	20' BRACKET / 3' ELBOW	20XX	920948.920375', 761178.748979'	N/A
151-212-B	MAST ARM	*	55'	N/A	N/A	20XX	921041.588302', 761158.943156'	S26°23'07.6"E
151-212-C	SPAN POLE	30' POLE	N/A	24"	20' BRACKET / 3' ELBOW	20XX	921037.707039', 761093.872044'	N/A

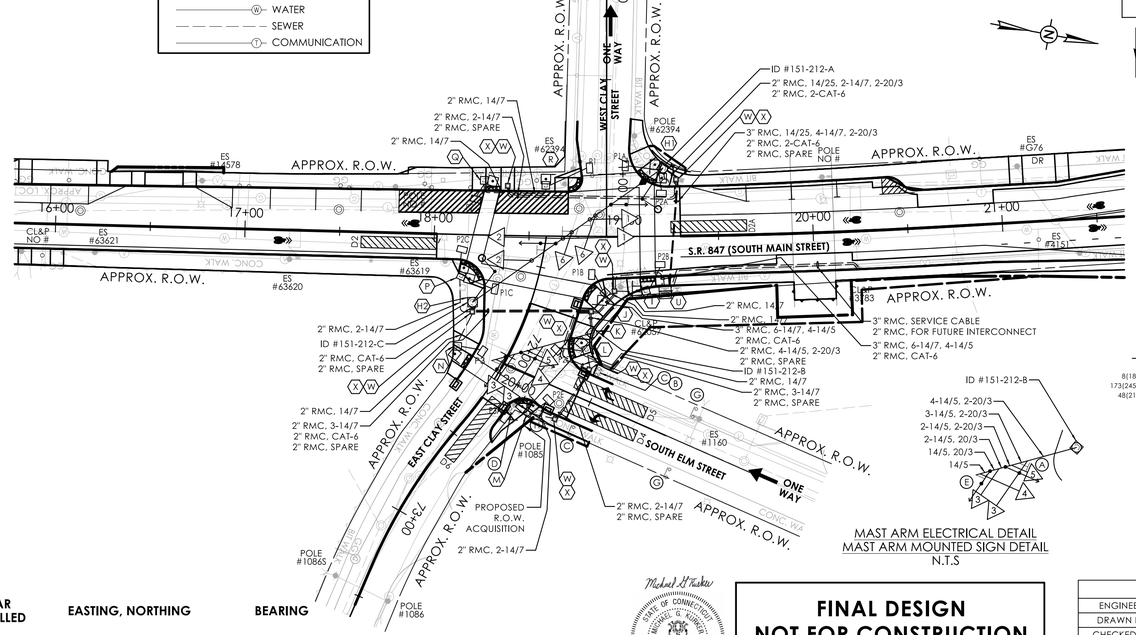
* TO BE CALCULATED BY THE CONTRACTOR BASED ON FIELD CONDITIONS.



SPAN WIRE ELECTRICAL DETAIL
SPAN MOUNTED SIGN DETAIL
N.T.S

UTILITY LEGEND

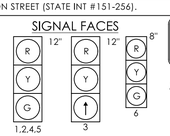
- (V) ELECTRIC POWER, LINES AND CONDUIT
- (G) GAS
- (W) WATER
- SEWER
- (T) COMMUNICATION



MAST ARM ELECTRICAL DETAIL
MAST ARM MOUNTED SIGN DETAIL
N.T.S

TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY.
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
TIMINGS SHOWN ARE FOR FREE OPERATION. ACTUAL TIMING TO BE DETERMINED BY THE CLOSED LOOP DETERMINATION UNIT.
(1) PERCUSSIVE TONE ONLY DURING LPI & PEDESTRIAN WALK INTERVAL FOR P1 BUTTON. SPEECH MESSAGE "WEST CLAY. WALK SIGN IS ON TO CROSS WEST CLAY" DURING LPI & PEDESTRIAN WALK INTERVAL FOR P1A BUTTON.
(2) PERCUSSIVE TONE ONLY DURING LPI & PEDESTRIAN WALK INTERVAL FOR P2D BUTTON. SPEECH MESSAGE "SOUTH ELM. WALK SIGN IS ON TO CROSS SOUTH ELM" DURING LPI & PEDESTRIAN WALK INTERVAL FOR P2E BUTTON.
(3) PERCUSSIVE TONE ONLY DURING LPI & PEDESTRIAN WALK INTERVAL FOR P2 & P2B BUTTONS. SPEECH MESSAGE "SOUTH MAIN. WALK SIGN IS ON TO CROSS SOUTH MAIN" DURING LPI & PEDESTRIAN WALK INTERVAL FOR P2A & P2C BUTTONS.
(4) PERCUSSIVE TONE ONLY DURING LPI & PEDESTRIAN WALK INTERVAL FOR P3 BUTTON. SPEECH MESSAGE "EAST CLAY. WALK SIGN IS ON TO CROSS EAST CLAY" DURING LPI & PEDESTRIAN WALK INTERVAL FOR P3A BUTTON.
(5) COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CHANGE INTERVAL.
(6) LPI AND CONCURRENT PEDESTRIAN PHASE ONLY COMES IN WHEN ACTUATED BY PUSH BUTTON.
(7) TO BE "G" IF PHASE 3 IS NEXT.
(8) PERCUSSIVE TONE ONLY DURING LPI AND PEDESTRIAN WALK INTERVAL FOR P1B BUTTON. SPEECH MESSAGE "EAST CLAY. WALK SIGN IS ON TO CROSS EAST CLAY" DURING LPI & PEDESTRIAN WALK INTERVAL FOR P1C BUTTON.
THIS INTERSECTION WIRELSSLY CONNECTED BY RADIO TO SOUTH MAIN STREET AT WEST LIBERTY STREET AND EAST LIBERTY STREET (STATE INT #151-229) AND S.R. 847 (SOUTH MAIN STREET) AT I-84 EB EXIT 22 OFF-RAMP, MARKET SQUARE, AND MCMAHON STREET (STATE INT #151-256).

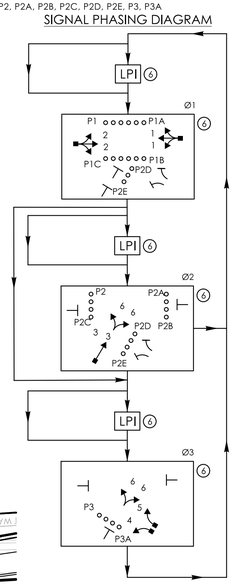
SIGNAL FACES

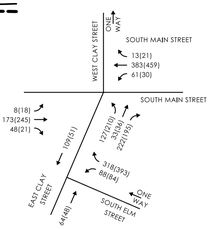


ALL SIGNAL INDICATIONS HAVE LED LAMPS. ALL VEHICULAR SIGNAL FACES TO HAVE BACK PLATES WITH YELLOW RETROREFLECTIVE BORDERS.

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.	PARENT	PARENT	PARENT	7
HOLD GREEN	15	15	15	15
HOLD YELLOW	3.2	3.2	3.9	4.0
HOLD RED	3.5	3.5	2.3	3.3
HOLD PHASE	7	8	3	2
EXIT PHASE	2	2	1	3
EXIT CALL	NONE	NONE	NONE	NONE

SIGNAL PHASING DIAGRAM





TRAFFIC VOLUMES (2045)
AM(PM)

CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW, EXCEPT WHERE NOTED.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ALL PEDESTRIAN PUSH BUTTONS TO BE "ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR (TYPE A)". INSTALL SIGN NO. 31-0845 WITH APPROPRIATE ARROW AT PEDESTRIAN BUTTON LOCATIONS.

REMOVE ALL ABANDONDED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF WATERBURY PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL EQUIPMENT WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH NOT LESS THAN 4 FEET. IF A MINIMUM OF 4 FEET FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE CITY OF WATERBURY.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

ALL TRAFFIC APPURTENANCE LOCATIONS SHALL BE VERIFIED TO MAINTAIN A CLEAR PATH OF NOT LESS THAN 4 FEET ON ADJACENT SIDEWALK. IF A MINIMUM 4 FOOT PATH IS UNAVAILABLE, NOTIFY THE ENGINEER AN CONTACT THE CITY OF WATERBURY.

(H) INSTALL SPAN POLE FOUNDATION AT 19+20, 37 LT. INSTALL TRAFFIC SIGNAL WIRELESS RADIO ANTENNA ON SPAN POLE.

(H2) INSTALL SPAN POLE FOUNDATION AT 71+81, 29 RT.

(I) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 19+11, 34 RT.

(J) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 72+41, 33 RT.

(K) INSTALL MAST ARM FOUNDATION AT 71+70, 33 LT.

(L) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 119+67, 23 RT.

(M) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND TWO ONE-WAY PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 119+80, 22 LT.

(N) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 72+09, 26 RT.

(P) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND TWO-WAY PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 18+12, 20 RT.

(Q) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 18+26, 28 LT.

(R) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 18+56, 27 LT.

(U) REMOVE EXISTING CONTROLLER CABINET FOR SOUTH MAIN STREET AT WEST AND EAST LIBERTY STREET. CABINET AND CONTROLLER TO BE REPLACED WITH NEW EQUIPMENT AT LOCATION SHOWN ON TCS-06 AT 11+59, 29 LT. CONCRETE PAD TO BE INSTALLED ON DOOR SIDE BETWEEN SIDEWALK AND CONTROLLER CABINET.

TEMPORARILY RELOCATE EXISTING CONTROLLER TO FACILITATE INSTALLATION OF NEW CONTROLLER CABINET AND FOUNDATION UNTIL NEW CONTROLLER IS IN OPERATION.

(W) 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

(X) INSTALL CAST IRON HANDHOLE COVER.

INSTALL INTERCONNECT RISER ON CL&P #3783 UTILITY POLE.

INSTALL 3" RMC SWEEP AT THE SERVICE POLE AND ATTACH TO THE SERVICE CONDUIT WITH A PVC FEMALE ADAPTER. TO BE PAID FOR UNDER ITEM NO. 1017032A-SERVICE (METERED). BOND AND GROUND RMC SWEEP PER EVERSOUCE REQUIREMENTS. EVERSOURCE TO FURNISH AND INSTALL THE SERVICE RISER AND LINE-SIDE CONDUCTORS.

CONTRACTOR TO INSTALL INTERCONNECT EQUIPMENT BETWEEN CONTROLLER AND CENTRAL OPERATIONS CENTER. WORK TO BE PAID UNDER ITEM NO. 1017019A - WIRELESS RADIO ASSEMBLY.

SERVICE CONDUIT INSTALLED UNDER THE ROADWAY SHALL BE 3" RMC. A PVC FEMALE ADAPTER SHALL BE USED TO CONNECT TO THE 3" PVC IN TRENCH.

EMERGENCY PRE-EMPTION NOTES

RELOCATE EXISTING EMERGENCY PRE-EMPTION EQUIPMENT TO EXISTING MAST ARMS AS SHOWN. TEST PRE-EMPTION EQUIPMENT SYSTEM AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS. INSTALLED EQUIPMENT SHALL BE FULLY COMPATIBLE WITH THE CITY OF WATERBURY EXISTING EMERGENCY PRE-EMPTION SYSTEM.

PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE TRAFFIC SIGNAL CONTROLLER CABINET.

OFFICE RECORD
REV # TIR # SM # SIGNAL REVISED: TIR NO. 151-2412-06
INSTALLED NEW SIGNAL EQUIPMENT UNDER CTDOT PROJECT #0151-0340.

Michael J. Tucker
STATE OF CONNECTICUT
REGISTERED PROFESSIONAL ENGINEER
34338
LICENSED PROFESSIONAL ENGINEER

FINAL DESIGN
NOT FOR CONSTRUCTION
JULY 2025

SCALE: 1"=40'

CITY SIGNAL

	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER	BL Companies ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING			07/2025
DRAWN BY				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
APPROVED DATE				

REV #	STATE INTERSECTION # 151-212	CITY INTERSECTION # 019
ENERGY BY: CITY	ADDRESS #:	
MAINT LEVEL: CITY	SERVICE POLE: CL&P #F3783	
	METERED SERVICE	

REVISION DESCRIPTION | DATE | REV.

LEGEND:
R RED, Y YELLOW, G GREEN
FL. FLASHING; ◀R RED ARROW; ◀Y YELLOW ARROW; ◀G GREEN ARROW; WØ WALK/ PED. CLR; D.W. DON'T WALK
~ ~ DET. LEADS IN SAW CUT; — PROPOSED RMC; •—• EXISTING RMC; CC CABLE CLOSURE; VC VIDEO CAMERA CABLE; RC RADAR CABLE
PROPOSED SUPPORT STRUCTURE; EXISTING STEEL SPAN POLE; PROPOSED UTILITY POLE; EXISTING UTILITY POLE; EXISTING WOOD SPAN POLE
PEDESTAL MOUNTING; PEDESTAL MOUNTED RRFB; PEDESTRIAN PUSH BUTTON & SIGN; DIRECTIONAL ARW. FOR PUSH BUTTON; PEDESTRIAN SIGNAL FACE; TRAFFIC SIGNAL FACE
PROPOSED HANDHOLE; EXISTING HANDHOLE; PROPOSED CONTROLLER; EXISTING CONTROLLER; AUXILIARY EQUIPMENT CABINET; OPTICAL DETECTOR
IP VIDEO DETECTOR; RADAR DETECTOR; THERMAL DETECTOR; AUDIO DETECTOR; 360° CAMERA ASSEMBLY; VIDEO THERMAL DETECTOR
DETECTION ZONE; LOOP DETECTOR; RADIO ANTENNA; POLE ANCHOR

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

S.R. 847 (SOUTH MAIN STREET) AT SOUTH ELM STREET, EAST CLAY STREET, AND WEST CLAY STREET

TOWN(S): **WATERBURY**

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

PROJECT NO.: **0151-0340**

DRAWING NO.: **TCS-07**

SHEET NO.: **07.38**

LASTED SAVED BY: sseperack **FILE NAME:** G:\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SIGNAL_151_212_S Main @ W Clay and E Clay.dgn
PLOTTED DATE: 8/18/2025

MOVEMENT DIAGRAM

		NTOR	PHASE 1 PRE-EMPT 1			PHASE 2 PRE-EMPT 2			PHASE 3			PHASE 4			PHASE 5 PRE-EMPT 3/4			PHASE 6			PHASE 7			PHASE 8			PHASE 9		
		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
FACE #	1	Y	G ←	G ↰	G	G	Y (4)	R (4)							R	R	R	R	R	R	R	R	R				R	R	R
	2	Y	↑	↑	↑	↑	Y (5)	R (5)							R	R	R	R	R	R	R	R	R				R	R	R
	3	R	R	R	R	G	Y	R							R	R	R	R	R	R	R	R	R				R	R	R
	4	R	R	R	R	G	Y	R							R	R	R	R	R	R	G	Y	R				R	R	R
	5	R	R	R	R	R	R	R							G	G	G	G	G	G	G	Y	R				R	R	R
	6	R	↑	↑	↑	↑	R	R							↑	Y	R	R	R	R	R	R	R				R	R	R
	7	R	R	R	R	R	R	R							R	R	R	↑	Y	R	R	R	R				R	R	R
	P	OFF	← DW →			← DW →									← DW →			← DW →						← DW →			WØ	← DW →	
						← YIELD POINT →																							
																											G PC		
	MIN		5	3.0	1.0	10	3.0	1.0							5	3.0	1.0	5	3.0	1.0	5	3.0	1.0				4 14	4.0	0.0
	MAX		20	5.0	3.0	45	5.0	3.0							25	6.0	3.0	25	5.0	3.0	25	5.0	3.0				25 20	4.0	0.0
INTERVALS	MIN GRN		6			15									8			8			6								
	WALK																										7 (1)	ACCESSIBLE PEDESTRIAN SIGNAL	
	PED CLR																										14 (2)		
	VEH EXT		2			2									2			2			2								
	MAX 1		10			23									23			23			10								
	MAX 2		10			23									23			23			10								
	YELLOW			3.2			3.2									3.7			3.4			3.4						4.0	
	RED				1.1			2.3									2.0			1.0			2.5					0.0	
	ADD INIT																											COUNTDOWN PEDESTRIAN SIGNAL	
	MAX INIT																												
	TBR																												
	TTR																												
	MIN GAP																												
MODE			NON-LOCK			MIN RECALL			OFF			OFF			NON-LOCK			NON-LOCK			NON-LOCK			OFF			NON-LOCK		
INT START						THIS PHASE																							

DETECTORS				SYSTEM LOC	COORDINATION TYPE: CLOSED LOOP						PHASE SPLITS SEC / %								
IDENT	SIZE (WXI)	TYPE	MODE	MASTER	PROGRAM FUNCTION	PROGRAM TIME	DAYS	CYCLE	OFFSET SEC	OFFSET %	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9
(3) QD1, QD1A	6' x 20'	LOOP (4 TURNS)	10" DELAY																
D1	6' x 50'	VIDEO - 360	PRESENCE		FLASH	NONE					/	/	/	/	/	/	/	/	/
D2A, D2B, D2C	6' x 50'	VIDEO - 360	PRESENCE		MAX 1	ALL OTHER TIMES					/	/	/	/	/	/	/	/	/
D5A, D5B, D5C	6' x 50'	VIDEO - 360	PRESENCE		MAX 2	FUTURE					/	/	/	/	/	/	/	/	/
D6A, D6B	6' x 50'	VIDEO - 360	PRESENCE		PATTERN 1	0600-0900	M-F	100"	40"	77%	10/10	20/20	/	/	23/23	12/12	10/10	/	25/25
D7A, D7B	6' x 50'	VIDEO - 360	PRESENCE		PATTERN 2	1500-1900	M-F	100"	23"	23%	10/10	23/23	/	/	17/17	15/15	10/10	/	25/25
SD1	6' x 6'	VIDEO - 360	PRESENCE								/	/	/	/	/	/	/	/	/
											/	/	/	/	/	/	/	/	/
											/	/	/	/	/	/	/	/	/

SIGN LEGEND

- (A) INSTALL 31-1629z MOUNTED ON MAST ARM
- (B) INSTALL 31-1629z MOUNTED ON MAST ARM
- (C) INSTALL 31-0816z MOUNTED ON MAST ARM (NO TURN ON RED)
- (D) INSTALL 31-1647z MOUNTED ON MAST ARM (NO TURNS)
- (E) INSTALL 31-0223
- (F) EXISTING 31-0222
- (G) EXISTING 31-1604
- (H) EXISTING 31-1178 / 31-1189 (ONE WAY)
- (I) EXISTING 31-1121 (DO NOT ENTER)
- (J) EXISTING 31-0307
- (K) EXISTING 31-1178 (ONE WAY)

WRONG WAY DETECTION NOTES:

SEE SEPARATE PLAN FOR WRONG WAY DETECTION DEVICES AND APPLICABLE EQUIPMENT.

PAVEMENT MARKING NOTES:

SEE SEPARATE PLAN FOR PAVEMENT MARKING INFORMATION.

SEE SEPARATE PLAN FOR ADDITIONAL EXTRUDED SIGN LOCATIONS AND INFORMATION.

FUTURE INTERCONNECT NOTES:

2" RMC FOR FUTURE INTERCONNECT FOR CITY OF WATERBURY USE. INSTALL 20' RMC RISER ON UTILITY POLE CL&P 8272 FOR CITY OF WATERBURY FUTURE USE.

NOTES:

STATE TO MAINTAIN SIGNS AND PAVEMENT MARKINGS ON SR 847 (SOUTH MAIN STREET), I-84 EB EXIT 22 OFF RAMP, AND ALL STOP BARS.

CITY OF WATERBURY TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON MARKET SQUARE AND McMAHON STREET.

CITY OF WATERBURY TO OWN AND MAINTAIN EMERGENCY PRE-EMPTION EQUIPMENT.

ALL CROSSWALKS ARE BAR TYPE.

(W) 30" x 30" HANDHOLE. ALL OTHERS TYPE II.

(X) CAST IRON HANDHOLE COVER.

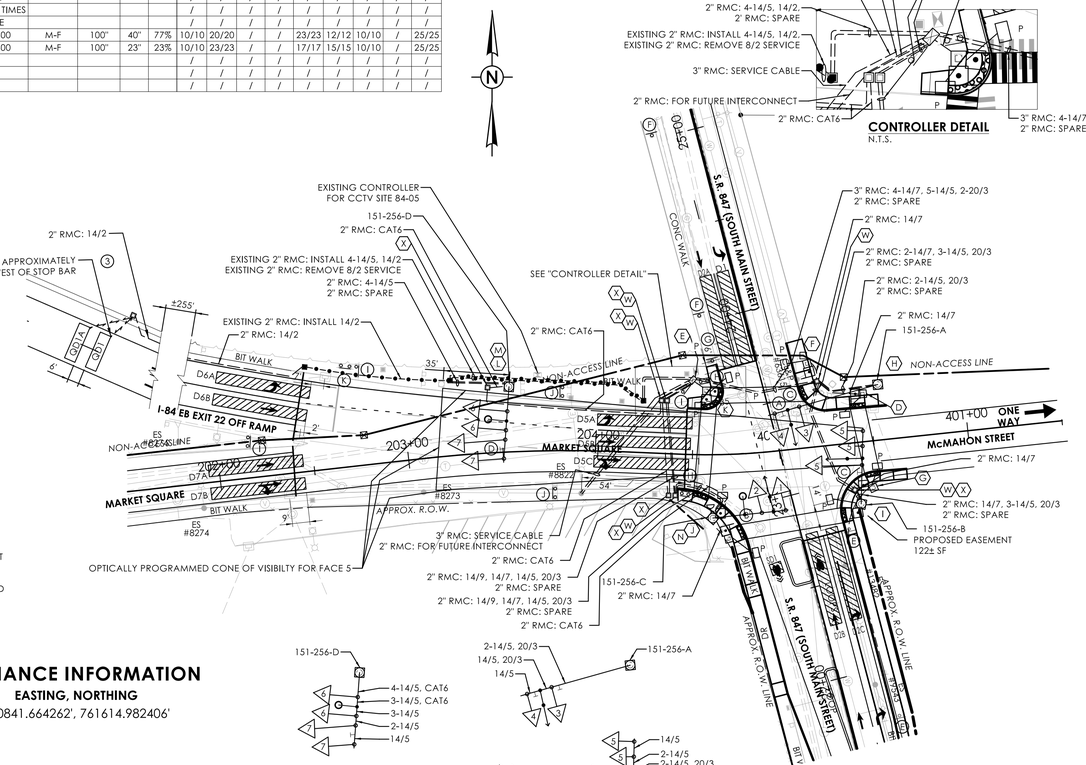
ADDITIONAL APPURTENANCE INFORMATION

QUADRANT	ITEM	EASTING, NORTHING
NW	CONTROLLER	920841.664262', 761614.982406'

MAST ARM INFORMATION

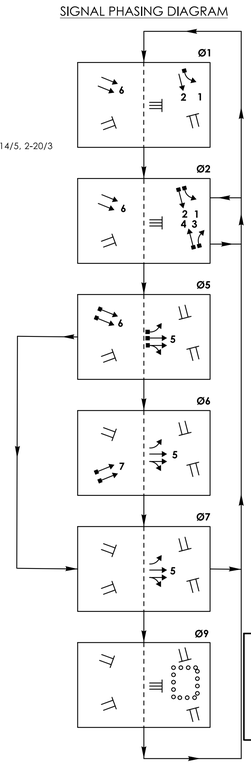
ID #	APPROX. ARM ATTACHMENT HEIGHT	ARM LENGTH	YEAR INSTALLED	VERTICAL RISER FOR 360 CAMERA	EASTING, NORTHING	BEARING
151-256-A	*	60'	20XX	N/A	920939.320785', 761612.305181'	S74°21'47.0"W
151-256-B	*	40'	20XX	N/A	920930.383350', 761549.290750'	N01°31'19.0"E
151-256-C	*	40'	20XX	10'	920852.047874', 761542.112088'	N84°06'04.4"E
151-256-D	*	40'	20XX	10'	920744.668751', 761611.811702'	S04°13'54.2"W

* TO BE CALCULATED BY THE CONTRACTOR BASED ON FIELD CONDITIONS.



CONTROLLER DETAIL
N.T.S.

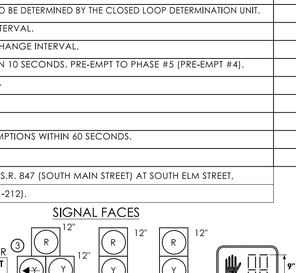
MAST ARM DETAIL
N.T.S.



SIGNAL PHASING DIAGRAM

SIGNAL FACES

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	NO
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.	PARENT	PARENT	PARENT	PARENT
HOLD GREEN	15	15	15	20
HOLD YELLOW	3.2	3.2	3.7	3.7
HOLD RED	1.1	2.3	2.0	2.0
HOLD PHASE	1	2	5	5
EXIT PHASE	2	5	2	2
EXIT CALL	NONE	NONE	NONE	NONE



ALL SIGNAL INDICATIONS HAVE LED LAMPS.
ALL VEHICULAR SIGNAL FACES TO HAVE BACK PLATES WITH YELLOW RETROREFLECTIVE BORDERS.
FACE 5 IS OPTICALLY PROGRAMMABLE.
FACE 6 TO BE LOUVERED CUT-OFF RIGHT AND FACE 7 TO BE LOUVERED CUT-OFF LEFT

TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY.
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
TIMINGS SHOWN ARE FOR FREE OPERATION. ACTUAL TIMING TO BE DETERMINED BY THE CLOSED LOOP DETERMINATION UNIT.
(1) PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.
(2) COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CHANGE INTERVAL.
(3) WHEN QUEUE DETECTOR IS OCCUPIED FOR MORE THAN 10 SECONDS, PRE-EMPT TO PHASE #5 (PRE-EMPT #4), SET QUEUE DETECTOR DURATION TIME TO 60 SECONDS.
(4) REPLACED BY G IF PHASE 1 IS NEXT.
(5) REPLACED BY ↑ IF PHASE 1 IS NEXT.
PRE-EMPTION LOCKOUT TIME TO RESTRICT MULTIPLE PRE-EMPTIONS WITHIN 60 SECONDS.
D7A, D7B, AND D7C TO CALL PHASE 5 AND 7.
THIS INTERSECTION WIRELESSLY CONNECTED BY RADIO TO S.R. 847 (SOUTH MAIN STREET) AT SOUTH ELM STREET, EAST CLAY STREET, AND WEST CLAY STREET (STATE INT #151-212).

OFFICE RECORD
REV # TIR # SM # SIGNAL REVISED: TIR NO. 151-2412-07
INSTALLED NEW SIGNAL EQUIPMENT UNDER CTDOT PROJECT #0151-0340.

CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW, EXCEPT AS NOTED.

STAKE AL R.O.W. PRIOR TO EXCAVATION.

ALL PEDESTRIAN PUSH BUTTONS TO BE "ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR (TYPE A)". INSTALL SIGN NO. 31-0845 WITH APPROPRIATE ARROW AT PEDESTRIAN BUTTON LOCATIONS.

REMOVE ALL ABANDONDED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

ANY PROPOSED REVISIONS TO THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF WATERBURY PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL EQUIPMENT WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH NOT LESS THAN 4 FEET. IF A MINIMUM OF 4 FEET FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE CITY OF WATERBURY.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

(D) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 400+47, 25' LT.

(E) INSTALL NEW CONTROLLER CABINET AT 23+72, 35' LT.

(F) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 23+65, 26' RT.

(G) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 400+47, 23' RT.

(H) INSTALL MAST ARM FOUNDATION WITH AT 400+48, 28' LT.

(I) INSTALL MAST ARM FOUNDATION WITH APS AND TWO ONE-WAY PEDESTRIAN COUNTDOWN SIGNALS AT 22+86, 35' RT.

(J) INSTALL MAST ARM FOUNDATION WITH APS AND TWO ONE-WAY PEDESTRIAN COUNTDOWN SIGNALS AT 22+95, 41' LT. INSTALL TRAFFIC SIGNAL WIRELESS RADIO ANTENNA ON MAST ARM.

(K) INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND TWO-WAY PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 23+65, 29' LT.

(L) INSTALL MAST ARM FOUNDATION AT 203+55, 34' LT.

(M) DETECTION BY USE OF 360 DEGREE VIDEO CAMERA ON POLE #151-256-D. RELOCATE EXISTING 360 DEGREE VIDEO CAMERA TO NEW MAST ARM.

(N) DETECTION BY USE OF 360 DEGREE VIDEO CAMERA ON POLE #151-256-C. RELOCATE EXISTING 360 DEGREE VIDEO CAMERA TO NEW MAST ARM.

(W) 30" x 30" HANDHOLE. ALL OTHERS TYPE II.

(X) INSTALL CAST IRON HANDHOLE COVER.

CLEAN EXISTING CONDUIT. WORK TO BE PAID FOR UNDER ITEM #1008908 - CLEAN EXISTING CONDUIT.

CLEAN EXISTING HANDHOLE. WORK TO BE PAID FOR UNDER ITEM #1010060 - CLEAN EXISTING HANDHOLE.

INSTALL INTERCONNECT RISER ON CL&P 8272 UTILITY POLE.

INSTALL A 3" RMC SWEEP AT THE SERVICE POLE AND ATTACH TO THE SERVICE CONDUIT WITH A PVC FEMALE ADAPTER, TO BE PAID FOR UNDER ITEM NO. 1017032A-SERVICE (METERED). BOND AND GROUND RMC SWEEP PER EVERSOURCE REQUIREMENTS. EVERSOURCE TO FURNISH AND INSTALL THE SERVICE RISER AND LINE-SIDE CONDUCTORS.

CONTRACTOR TO INSTALL INTERCONNECT EQUIPMENT BETWEEN CONTROLLER AND CENTRAL OPERATIONS CENTER. WORK TO BE PAID UNDER ITEM NO. 1017019A - WIRELESS RADIO ASSEMBLY.

SERVICE CONDUIT INSTALLED UNDER THE ROADWAY SHALL BE 3" RMC. A PVC FEMALE ADAPTER SHALL BE USED TO CONNECT TO THE 3" PVC IN TRENCH.

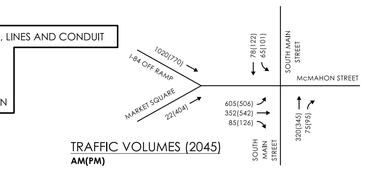
EMERGENCY PRE-EMPTION NOTES

RELOCATE EXISTING EMERGENCY PRE-EMPTION EQUIPMENT TO EXISTING MAST ARMS AS SHOWN. TEST PRE-EMPTION EQUIPMENT SYSTEM AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS. INSTALLED EQUIPMENT SHALL BE FULLY COMPATIBLE WITH THE CITY OF WATERBURY EXISTING EMERGENCY PRE-EMPTION SYSTEM.

PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE TRAFFIC SIGNAL CONTROLLER CABINET.

UTILITY LEGEND

- (V) ELECTRIC POWER, LINES AND CONDUIT
- (G) GAS
- (W) WATER
- SEWER
- (T) COMMUNICATION



TRAFFIC VOLUMES (2045)
AM(PM)

FINAL DESIGN NOT FOR CONSTRUCTION JULY 2025

SCALE: 1"=40'

CITY SIGNAL

	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER				
DRAWN BY				
CHECKED BY				07/2025
SUBMITTED BY				
APPROVED BY				
APPROVED DATE				

BLC Companies — ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING

REV #	STATE INTERSECTION # 151-256	CITY INTERSECTION # 023
ENERGY BY: CITY	ADDRESS #:	
MAINT LEVEL: CITY	SERVICE POLE: CL&P 8272	
	METERED SERVICE	

REVISION DESCRIPTION | DATE | REV.

LEGEND:
R RED, Y YELLOW, G GREEN; FL. FLASHING; R RED ARROW, Y YELLOW ARROW, G GREEN ARROW, WØ WALK/ PED. CLR, D.W. DON'T WALK; ~ ~ DET. LEADS IN SAW CUT; PROPOSED RMC, EXISTING RMC; CABLE CLOSURE; VC VIDEO CAMERA CABLE; RC RADAR CABLE; PROPOSED SUPPORT STRUCTURE; EXISTING STEEL SPAN POLE; PROPOSED UTILITY POLE; EXISTING UTILITY POLE; EXISTING WOOD SPAN POLE; PEDESTAL MOUNTING; PEDESTAL MOUNTED RRFB; PEDESTRIAN PUSH BUTTON & SIGN; DIRECTIONAL ARW. FOR PUSH BUTTON; PEDESTRIAN SIGNAL FACE; TRAFFIC SIGNAL FACE; PROPOSED HANDHOLE; EXISTING HANDHOLE; PROPOSED CONTROLLER; EXISTING CONTROLLER; AUXILIARY EQUIPMENT CABINET; OPTICAL DETECTOR; IP VIDEO DETECTOR; RADAR DETECTOR; THERMAL DETECTOR; AUDIO DETECTOR; 360° CAMERA ASSEMBLY; VIDEO THERMAL DETECTOR; DETECTION ZONE; LOOP DETECTOR; RADIO ANTENNA; POLE ANCHOR

CTDOT — CONNECTICUT DEPARTMENT OF TRANSPORTATION

S.R. 847 (SOUTH MAIN STREET) AT I-84 EB EXIT 22 OFF-RAMP, MARKET SQUARE, AND McMAHON STREET

TOWN(S): **WATERBURY**

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

PROJECT NO.: **0151-0340**

DRAWING NO.: **TCS-08**

SHEET NO.: **07.39**

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SIGNAL_151_256_S Main @ Market Sq and McMahon.dgn
PLOTTED DATE: 8/18/2025

SIGNS:

Ⓐ EXISTING 31-1121 (DO NOT ENTER) TO REMAIN

EXISTING 31-5003 ( ) TO REMAIN

Ⓑ REMOVE 31-1123 (WRONG WAY)

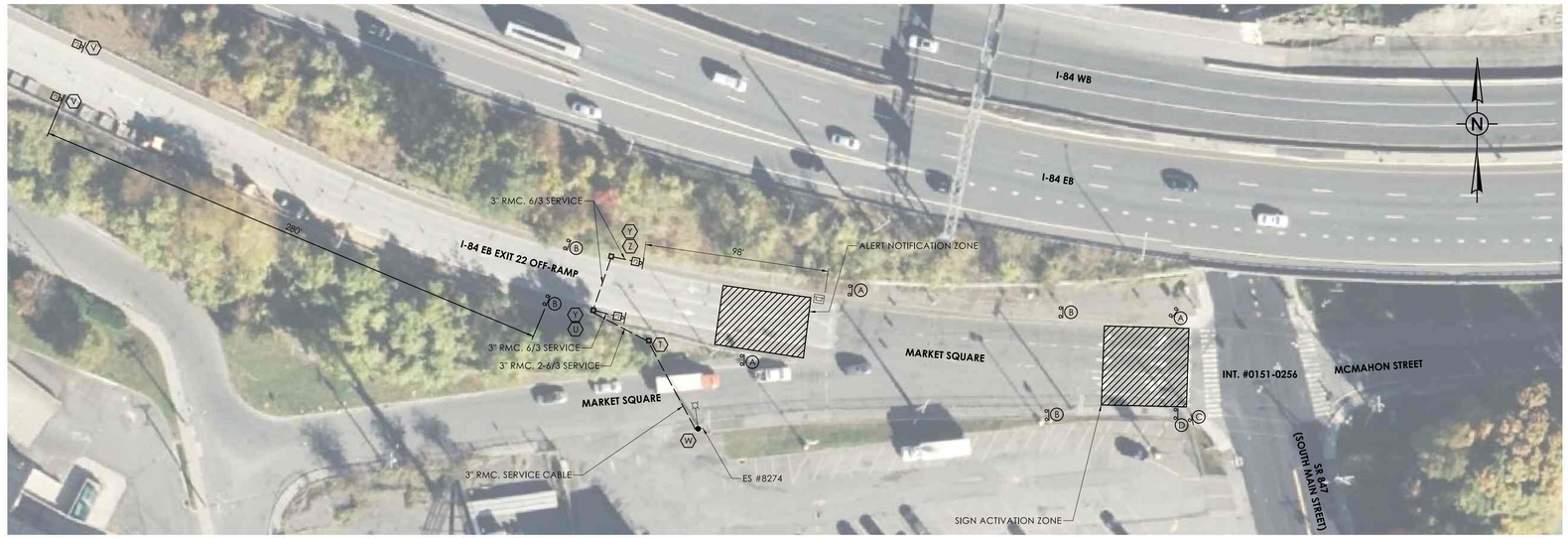
REMOVE 31-5003 ( )

Ⓒ REMOVE 31-1121 (DO NOT ENTER)

REMOVE 31-5003 ( )

Ⓓ INSTALL 31-1121 (DO NOT ENTER)

INSTALL 31-5003 ( )



CONSTRUCTION NOTES:

ALL EQUIPMENT IS NEW, EXCEPT AS NOTED.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN SPECIAL PROVISIONS, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

COORDINATE AND SCHEDULE THE FOLLOWING WORK BY EVERSOURCE:
-SERVICE CONNECTION ON POLE ES #8274.

Ⓣ INSTALL 4'-4" ALUMINUM PEDESTAL AND MOUNT CABINET. INSTALL METER SOCKET ON THE CABINET. EVERSOURCE TO MOUNT METER TO PEDESTAL. WORK TO BE PAID FOR UNDER ITEM #1105503A - FLASHER CABINET AND ITEM #1017032A - SERVICE (METERED).

Ⓤ INSTALL 20' ALUMINUM PEDESTAL 10' OFF EDGE OF ROAD; MOUNT 2 FLIR, 2 CCTV, 2 ILLUMINATORS, CABINET, AND LEGENDVIZ "WRONG WAY" SIGN. TO BE PAID FOR UNDER ITEM #1117104A - WRONG WAY DETECTION AND WARNING SYSTEM - AC POWERED.

Ⓥ INSTALL 20' ALUMINUM PEDESTAL 10' OFF EDGE OF ROAD; MOUNT SOLAR PANELS, CABINET, AND LEGENDVIZ "WRONG WAY" SIGN. TO BE PAID UNDER ITEM #1117107A.

Ⓦ AC POWER FOR WRONG WAY DETECTOR POLE "U" TO BE SUPPLIED BY UTILITY POLE ES #8274.

Ⓨ INSTALL TYPE II HANDHOLE.

Ⓩ INSTALL 20' ALUMINUM PEDESTAL 10' OFF EDGE OF ROAD; MOUNT LEGENDVIZ "WRONG WAY" SIGN. TO BE PAID FOR UNDER ITEM #1117104A - WRONG WAY DETECTION AND WARNING SYSTEM - AC POWERED.

LOCATIONS ARE FOR ILLUSTRATIONS ONLY. EXACT LOCATIONS AND ORIENTATION SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE.

ENSURE THAT ALUMINUM PEDESTALS DO NOT BLOCK VIEW OF EXISTING LANE USE OR GUIDE SIGNS.

INSTALL A 3" RMC SWEEP AT ES #8274 AND ATTACH TO THE SERVICE CONDUIT WITH A PVC FEMALE ADAPTER. TO BE PAID FOR UNDER ITEM NO. 1017032A SERVICE (METERED). BOND AND GROUND RMC SWEEP PER EVERSOURCE REQUIREMENTS. EVERSOURCE TO FURNISH AND INSTALL THE SERVICE RISER AND LINE-SIDE CONDUCTORS.

SERVICE CONDUIT INSTALLED UNDER THE ROADWAY SHALL BE 3" RMC. A PVC FEMALE ADAPTER SHALL BE USED TO CONNECT THE 3" PVC IN TRENCH.

REFER TO TCS-08 FOR MORE INFORMATION.

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: Michael S. Kurker, BL Companies, 355 Research Place, Bethel, CT 06801

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: WRONG WAY SIGNS WITH FLASHERS - S MAIN STREET AT I-84 EB EXIT 22 OFF-RAMP, MARKET SQUARE, MCMAHON STREET

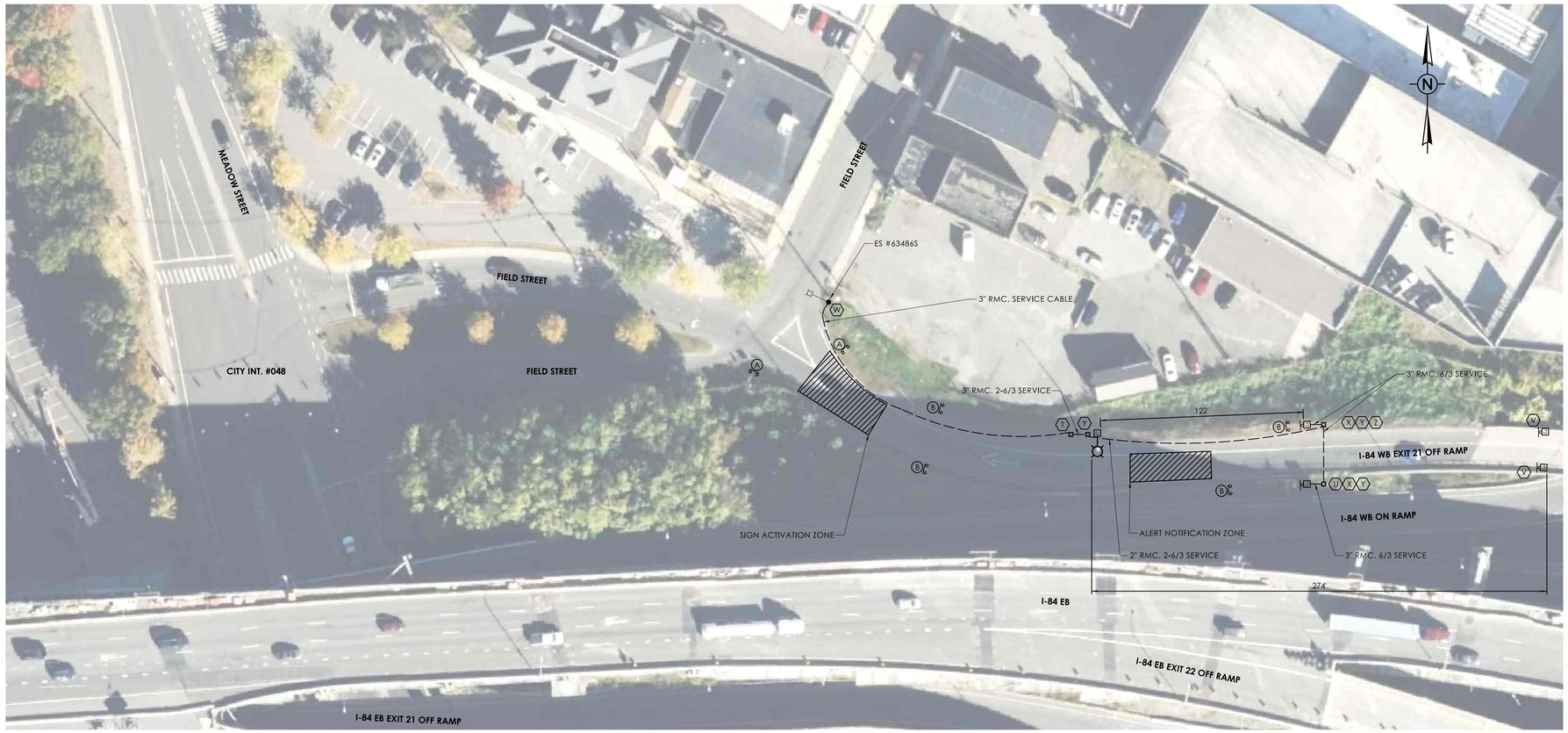
PROJECT NO.: 0151-0340

DRAWING NO.: WWS-01

SHEET NO.: 07.40

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PLOTTED DATE: 8/18/2025



SIGNS:

Ⓐ EXISTING 31-1121 (DO NOT ENTER) TO REMAIN

EXISTING 31-5003 ( ) TO REMAIN

Ⓑ REMOVE 31-1123 (WRONG WAY)

REMOVE 31-5003 ( )

CONSTRUCTION NOTES:

ALL EQUIPMENT IS NEW, EXCEPT AS NOTED.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN SPECIAL PROVISIONS, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

COORDINATE AND SCHEDULE THE FOLLOWING WORK BY EVERSOURCE:
- SERVICE CONNECTION ON POLE ES #63486S.

Ⓣ INSTALL 4'-4" ALUMINUM PEDESTAL AND MOUNT CABINET. INSTALL METER SOCKET ON THE CABINET. EVERSOURCE TO MOUNT METER TO PEDESTAL. WORK TO BE PAID FOR UNDER ITEM #1105503A - FLASHER CABINET AND ITEM #1017032A - SERVICE (METERED).

Ⓤ INSTALL 20' ALUMINUM PEDESTAL 10' OFF EDGE OF ROAD; MOUNT 2 FLIR, 2 CCTV, 2 ILLUMINATORS, CABINET, AND LEGENDVIZ "WRONG WAY" SIGN. TO BE PAID FOR UNDER ITEM #1117104A - WRONG WAY DETECTION AND WARNING SYSTEM - AC POWERED.

Ⓥ INSTALL 20' ALUMINUM PEDESTAL 10' OFF EDGE OF ROAD; MOUNT SOLAR PANELS, CABINET, AND LEGENDVIZ "WRONG WAY" SIGN. TO BE PAID UNDER ITEM #1117107A.

Ⓦ AC POWER FOR WRONG WAY DETECTOR POLE "U" TO BE SUPPLIED BY UTILITY POLE ES #63486S.

Ⓧ TRIM TREE BRANCHES/VEGETATION. WORK TO BE PAID FOR UNDER ITEM #0952001A - SELECTIVE CLEARING AND THINNING.

Ⓨ INSTALL TYPE II HANDHOLE.

Ⓩ INSTALL 20' ALUMINUM PEDESTAL 10' OFF EDGE OF ROAD; MOUNT LEGENDVIZ "WRONG WAY" SIGN. TO BE PAID FOR UNDER ITEM #1117104A - WRONG WAY DETECTION AND WARNING SYSTEM - AC POWERED.

LOCATIONS ARE FOR ILLUSTRATIONS ONLY. EXACT LOCATIONS AND ORIENTATION SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE.

ENSURE THAT ALUMINUM PEDESTALS DO NOT BLOCK VIEW OF EXISTING LANE USE OR GUIDE SIGNS.

INSTALL A 3" RMC SWEEP AT THE SERVICE POLE AND ATTACH TO THE SERVICE CONDUIT WITH A PVC FEMALE ADAPTER. TO BE PAID FOR UNDER ITEM NO. 1017032A - SERVICE (METERED). BOND AND GROUND RMC SWEEP PER EVERSOURCE REQUIREMENTS. EVERSOURCE TO FURNISH AND INSTALL THE SERVICE RISER AND LINE-SIDE CONDUCTORS.

SERVICE CONDUIT INSTALLED UNDER THE ROADWAY SHALL BE 3" RMC. A PVC FEMALE ADAPTER SHALL BE USED TO CONNECT TO THE 3" PVC IN TRENCH.

REFER TO TCS-04 FOR MORE INFORMATION.

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 40' 80'
HORIZONTAL SCALE
1" = 40'

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: WRONG WAY SIGNS WITH FLASHERS - FIELD STREET AT I-84 WB EXIT 21 OFF-RAMP

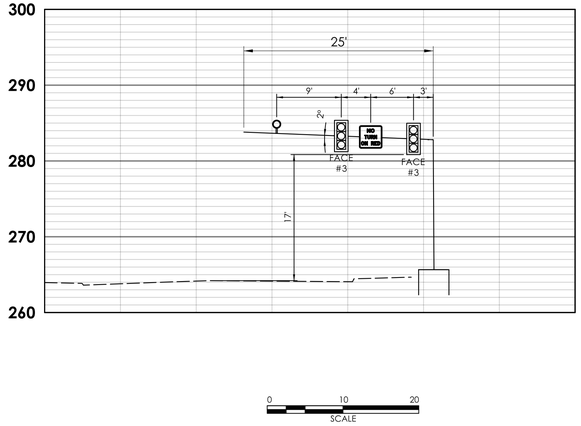
PROJECT NO.: 0151-0340

DRAWING NO.: WWS-02

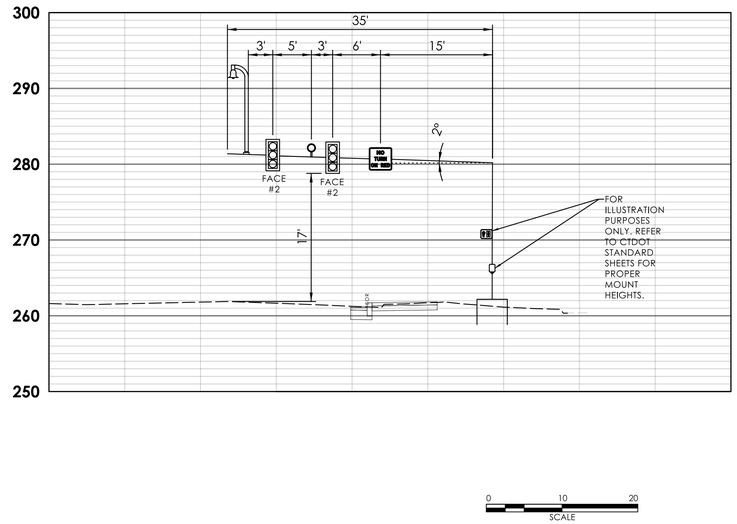
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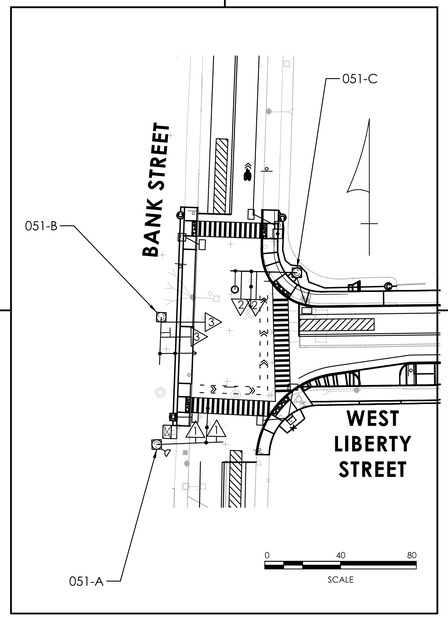
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PLOTTED DATE: 8/18/2025

CITY INTERSECTION #051-B MAST ARM PROFILE

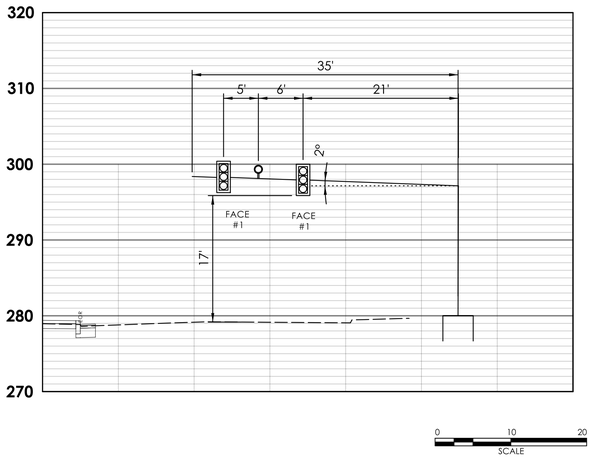


CITY INTERSECTION #051-C MAST ARM PROFILE





CITY INTERSECTION #051-A MAST ARM PROFILE



MAST ARM NOTES

CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS

NOTES

SEE TCS-01 FOR ADDITIONAL LEGEND INFORMATION.

MAST ARM PROFILE IS PERPENDICULAR TO ARM.

LEGEND

- TRAFFIC SIGNAL FACE
- 360 VIDEO DETECTOR
- EMERGENCY PRE-EMPTION DETECTOR
- PEDESTRIAN SIGNAL EQUIPMENT

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAST ARM CROSS SECTIONS - BANK STREET AT WEST LIBERTY STREET

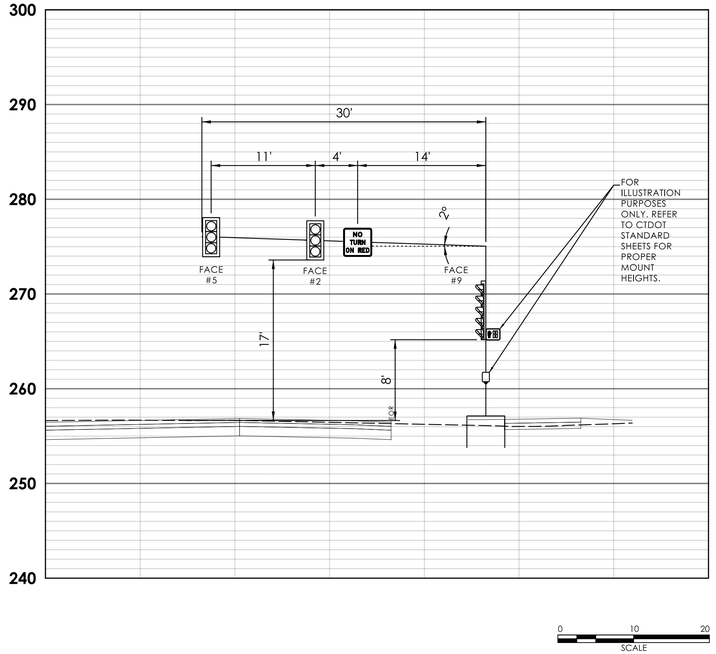
PROJECT NO.: 0151-0340

DRAWING NO.: TXCS-01

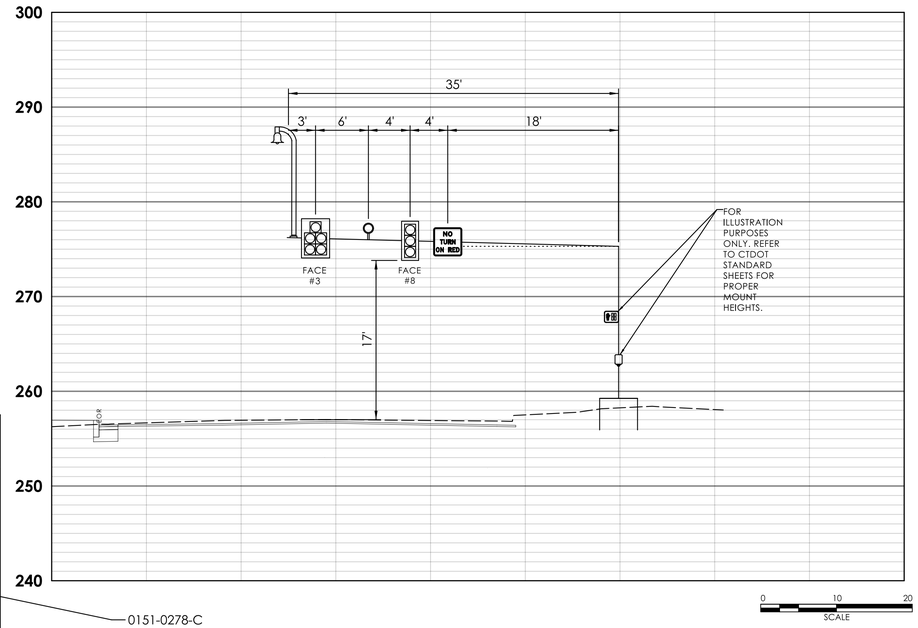
SHEET NO.: 07.42

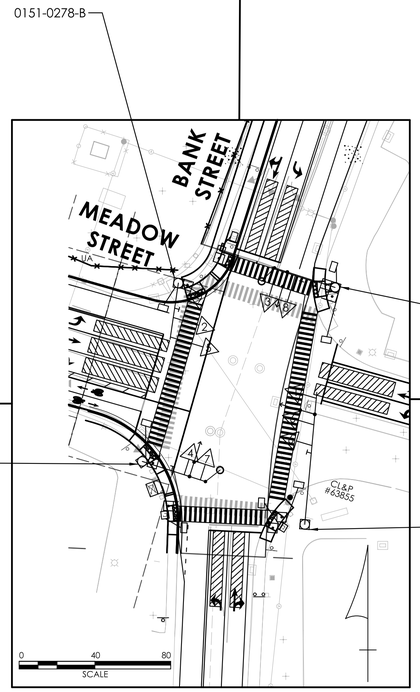
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PLOTTED DATE: 8/18/2025

MAST ARM 0151-0278-B PROFILE

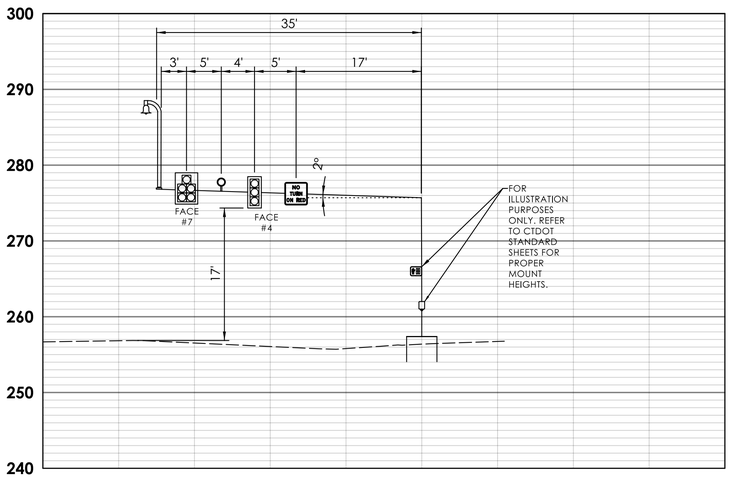


MAST ARM 0151-0278-C PROFILE





MAST ARM 0151-0278-A PROFILE



MAST ARM NOTES

CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS

NOTES

SEE TCS-02 FOR ADDITIONAL LEGEND INFORMATION.

MAST ARM PROFILE IS PERPENDICULAR TO ARM.

LEGEND

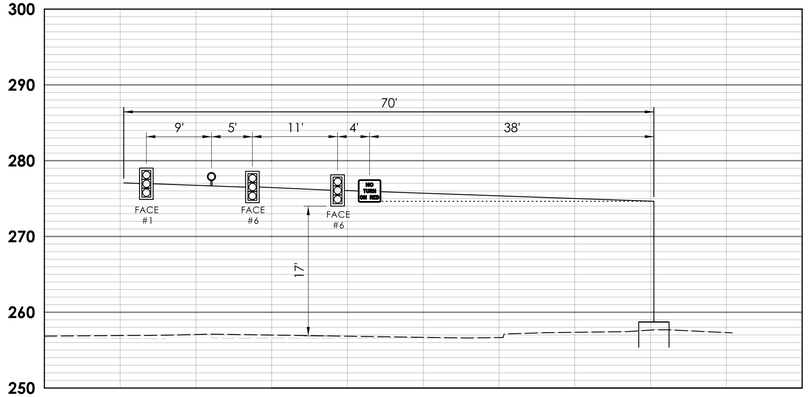
TRAFFIC SIGNAL FACE

360 VIDEO DETECTOR

EMERGENCY PRE-EMPTION DETECTOR

PEDESTRIAN SIGNAL EQUIPMENT

MAST ARM 0151-0278-D PROFILE



REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK: Michael J. Kelley, PE, No. 24xxxx, 24 Grandview Plaza, Suite 2, Hartford, CT 06103

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAST ARM CROSS SECTIONS - MEADOW STREET AT BANK STREET AND PLAZA DRIVE

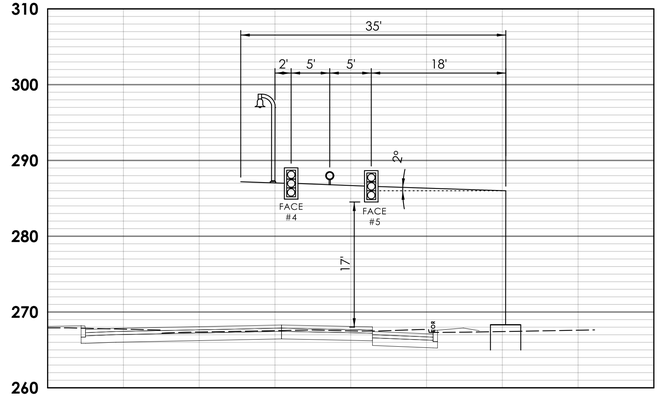
PROJECT NO.: 0151-0340

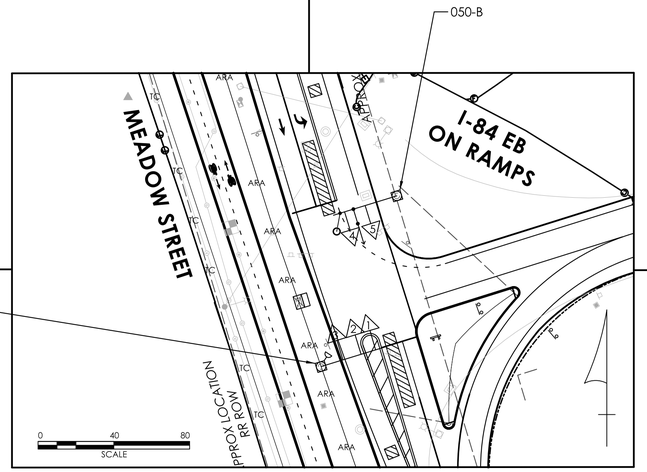
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SHEET NO.: 07.43

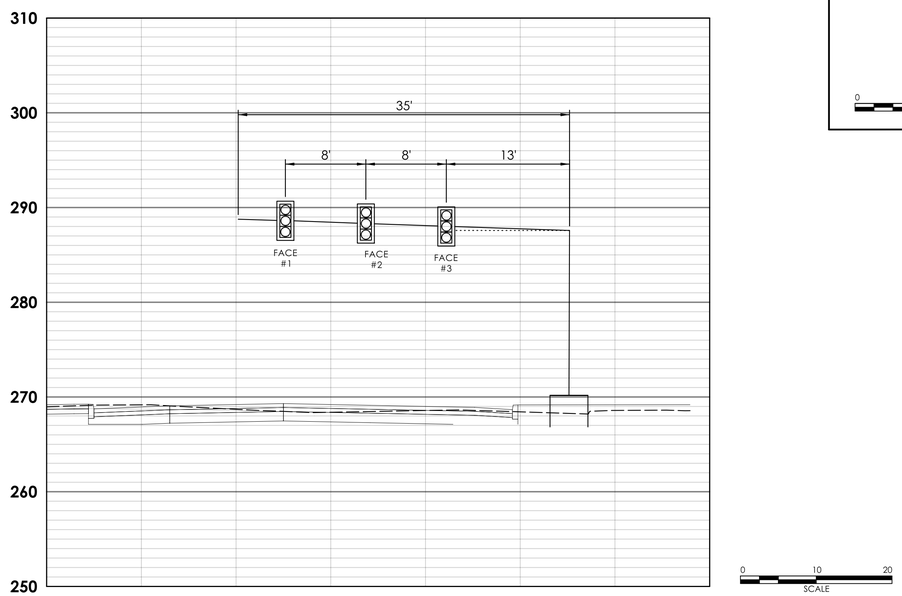
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PLOTTED DATE: 8/18/2025

CITY INTERSECTION #050-B MAST ARM PROFILE





CITY INTERSECTION #050-A MAST ARM PROFILE



MAST ARM NOTES

CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS

NOTES

SEE TCS-03 FOR ADDITIONAL LEGEND INFORMATION.

MAST ARM PROFILE IS PERPENDICULAR TO ARM.

LEGEND

- TRAFFIC SIGNAL FACE
- 360 VIDEO DETECTOR
- EMERGENCY PRE-EMPTION DETECTOR
- PEDESTRIAN SIGNAL EQUIPMENT

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAST ARM CROSS SECTIONS - MEADOW STREET AT I-84 EASTBOUND ON-RAMPS

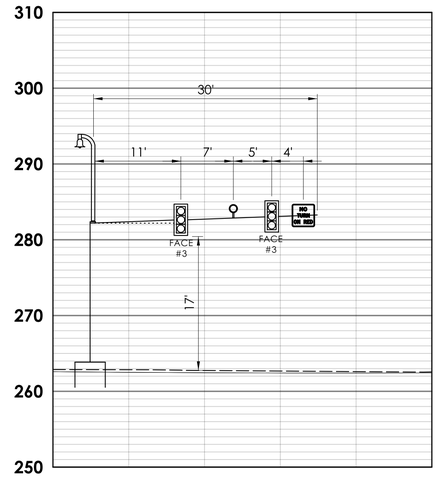
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DRAWING NO.: TXCS-03

SHEET NO.: 07.44

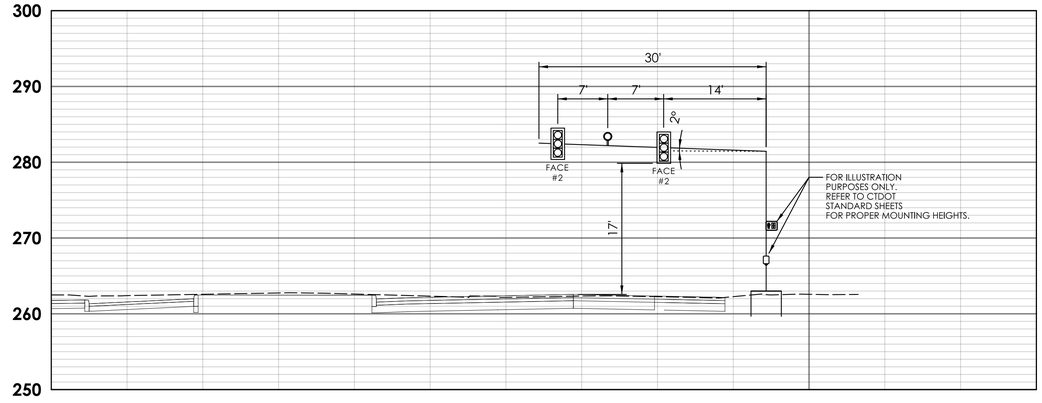
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PLOTTED DATE: 8/18/2025

CITY INTERSECTION #048-C MAST ARM PROFILE

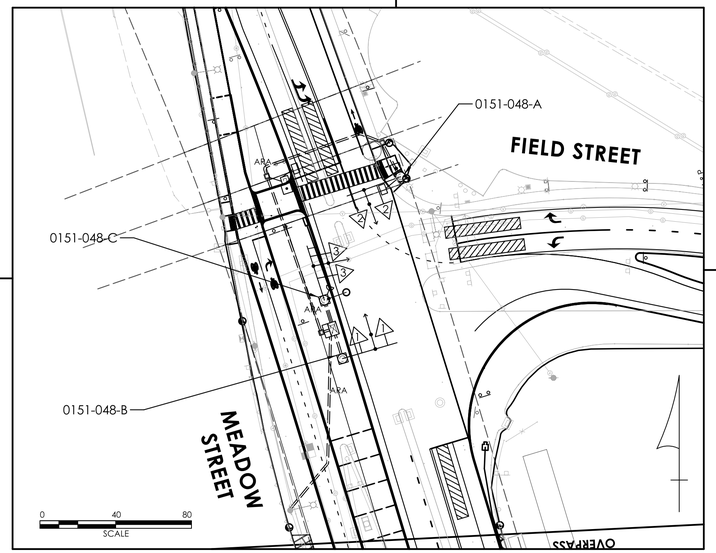


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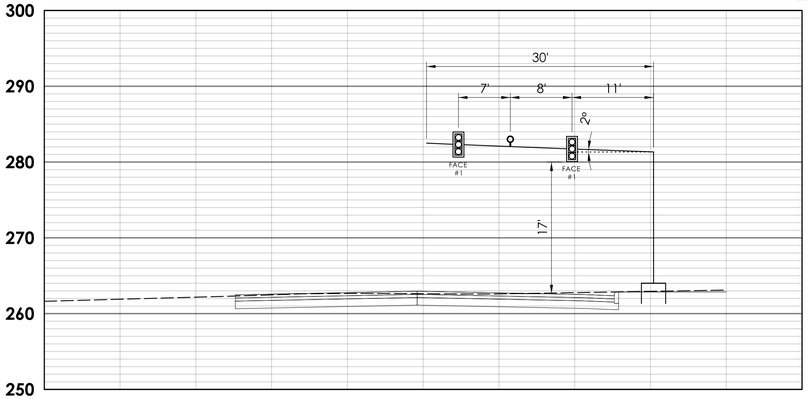
CITY INTERSECTION #048-A MAST ARM PROFILE



0 10 20
SCALE



CITY INTERSECTION #048-B MAST ARM PROFILE



0 10 20
SCALE

MAST ARM NOTES

CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS

NOTES

SEE TCS-04 FOR ADDITIONAL LEGEND INFORMATION.

MAST ARM PROFILE IS PERPENDICULAR TO ARM.

LEGEND

TRAFFIC SIGNAL FACE

360 VIDEO DETECTOR

EMERGENCY PRE-EMPTION DETECTOR

PEDESTRIAN SIGNAL EQUIPMENT

REV | DATE | REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAST ARM CROSS SECTIONS - MEADOW STREET AT FIELD STREET

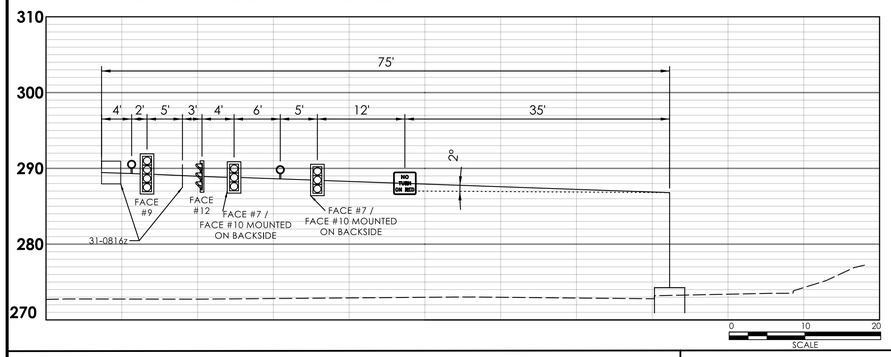
PROJECT NO.: 0151-0340

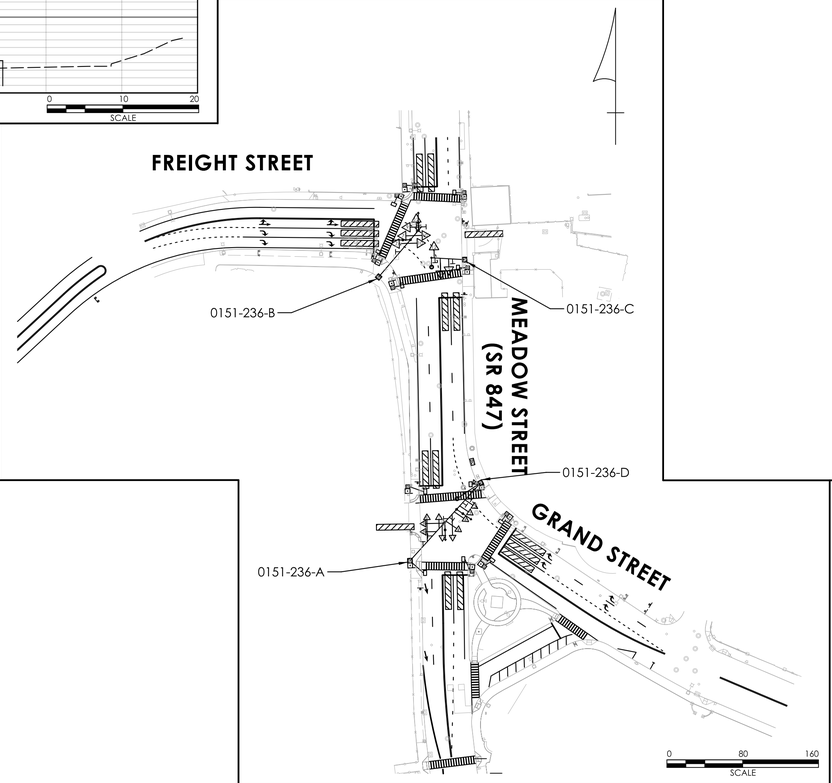
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SHEET NO.: 07.45

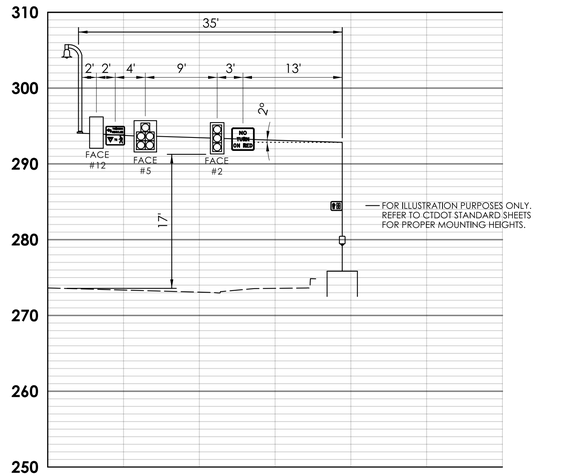
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PLOTTED DATE: 8/18/2025

MAST ARM 0151-0236-B PROFILE VIEW





MAST ARM 0151-0236-C PROFILE VIEW



MAST ARM NOTES

CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS

NOTES

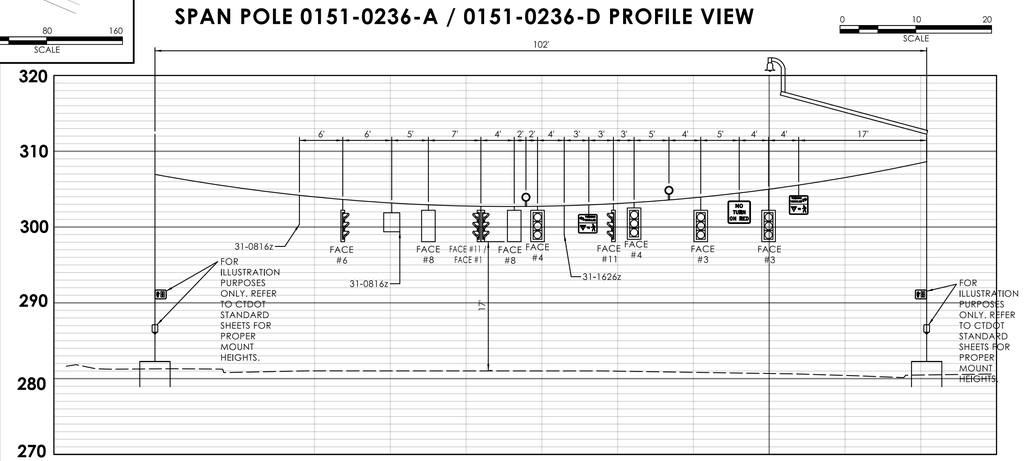
SEE TCS-05 FOR ADDITIONAL LEGEND INFORMATION.

MAST ARM PROFILE IS PERPENDICULAR TO ARM.

LEGEND

- TRAFFIC SIGNAL FACE
- 360 VIDEO DETECTOR
- EMERGENCY PRE-EMPTION DETECTOR
- PEDESTRIAN SIGNAL EQUIPMENT

SPAN POLE 0151-0236-A / 0151-0236-D PROFILE VIEW



REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAST ARM CROSS SECTIONS - S.R. 847 (GRAND STREET/MEADOW STREET) AT MEADOW STREET, FREIGHT STREET, AND PRIVATE DRIVE

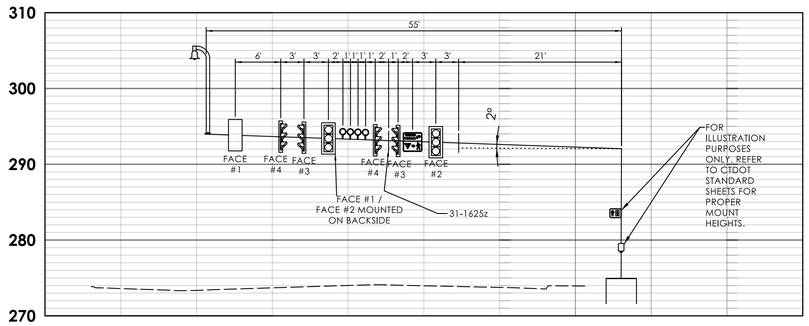
PROJECT NO.: 0151-0340

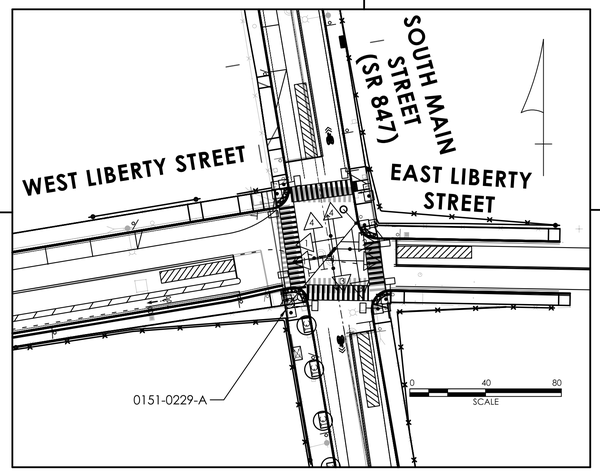
DRAWING NO.: TXCS-05

SHEET NO.: 07.46

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PLOTTED DATE: 8/18/2025

MAST ARM 0151-0229-A PROFILE VIEW





MAST ARM NOTES

CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS

NOTES

SEE TCS-06 FOR ADDITIONAL LEGEND INFORMATION.

MAST ARM PROFILE IS PERPENDICULAR TO ARM.

VIEW OF MAST ARM IS FROM SOUTHBOUND PERSPECTIVE

LEGEND

TRAFFIC SIGNAL FACE

360 VIDEO DETECTOR

EMERGENCY PRE-EMPTION DETECTOR

PEDESTRIAN SIGNAL EQUIPMENT

REV. | DATE | REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAST ARM CROSS SECTIONS - S.R. 847 (SOUTH MAIN STREET) AT WEST LIBERTY STREET AND EAST LIBERTY STREET

PROJECT NO.: 0151-0340

DRAWING NO.: TXCS-06

SHEET NO.: 07.47

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_TXCS.dgn
PLOTTED DATE: 8/18/2025

MAST ARM /SPAN POLE NOTES

CONTRACTOR TO VERIFY ALL MAST ARM AND SPAN POLE INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS

NOTES

SEE TCS-07 FOR ADDITIONAL LEGEND INFORMATION.

MAST ARM PROFILE IS PERPENDICULAR TO ARM.

MAST ARM 0151-0212-B PROFILE VIEW FROM SOUTH ELM STREET SOUTHBOUND PERSPECTIVE.

LEGEND



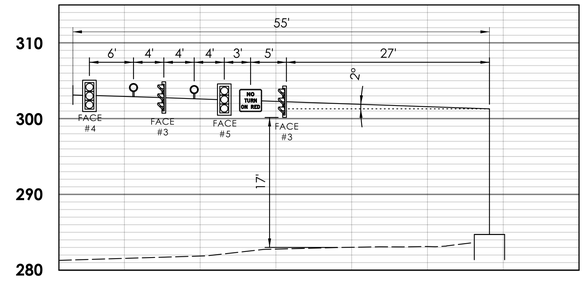
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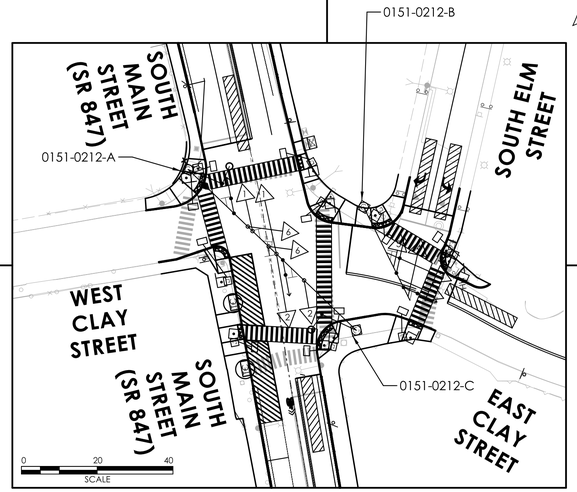
360 VIDEO DETECTOR

EMERGENCY PRE-EMPTION DETECTOR

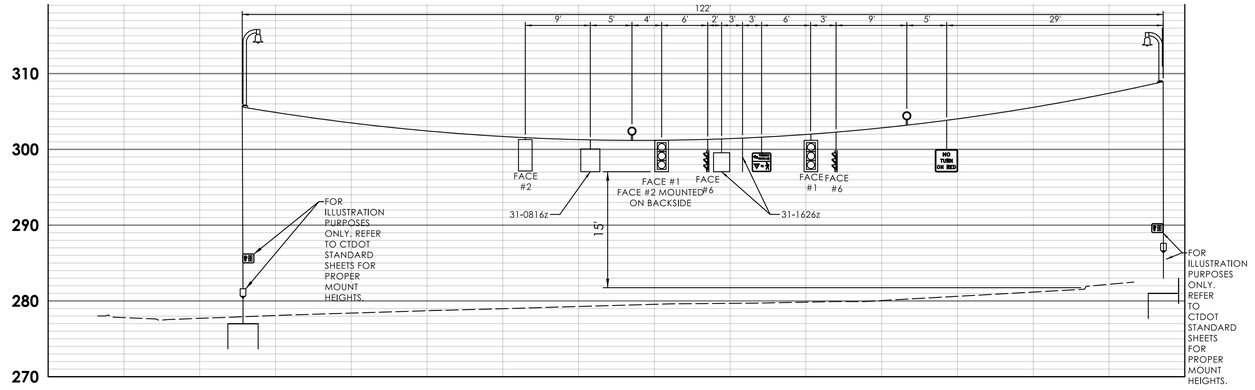
PEDESTRIAN SIGNAL EQUIPMENT

MAST ARM 0151-0212-B PROFILE VIEW





SPAN POLE 0151-0212-C PROFILE VIEW



SPAN POLE 0151-0212-A PROFILE VIEW

0 10 20
SCALE

REV. | DATE | REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: MAST ARM CROSS SECTIONS - S.R. 847 (SOUTH MAIN STREET) AT SOUTH ELM STREET, EAST CLAY STREET, AND WEST CLAY STREET

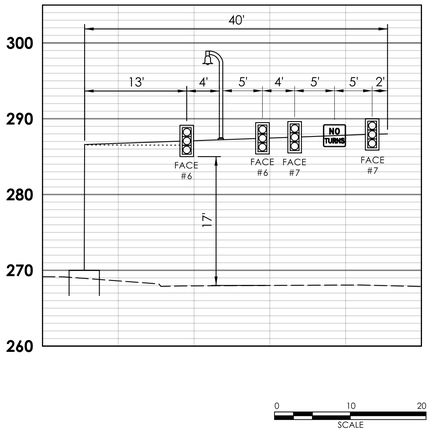
PROJECT NO.: 0151-0340

DRAWING NO.: TXCS-07

SHEET NO.: 07.48

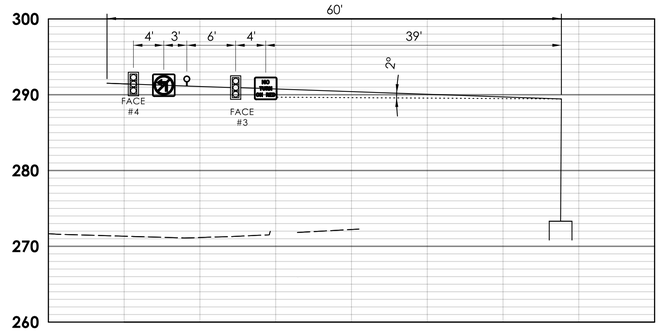
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PLOTTED DATE: 8/18/2025

MAST ARM 0151-0256-D PROFILE VIEW

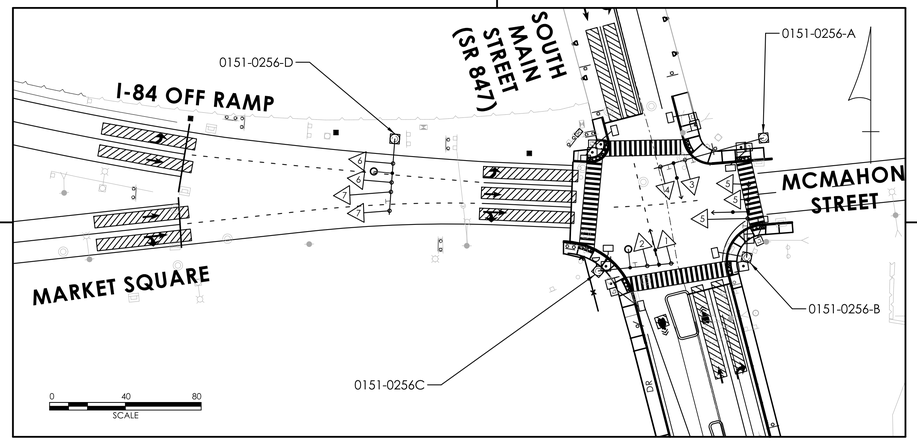


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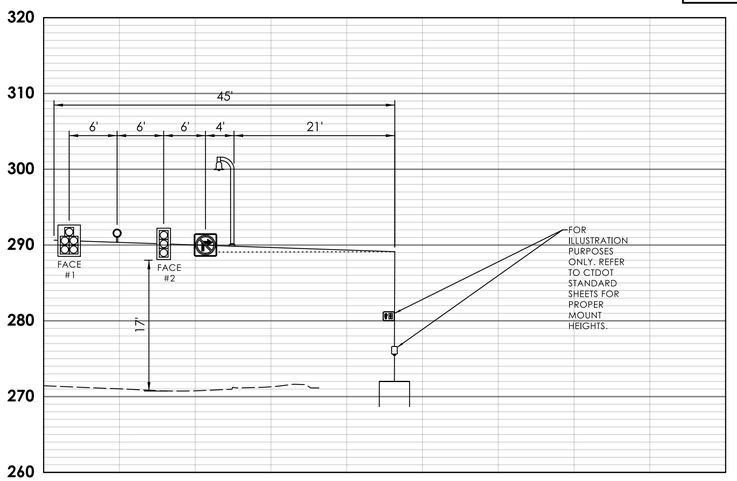
MAST ARM 0151-0256-A PROFILE VIEW



0 10 20
SCALE



MAST ARM 0151-0256-C PROFILE VIEW



0 10 20
SCALE

MAST ARM NOTES

CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS

NOTES

SEE TCS-08 FOR ADDITIONAL LEGEND INFORMATION.

MAST ARM PROFILE IS PERPENDICULAR TO ARM.

LEGEND

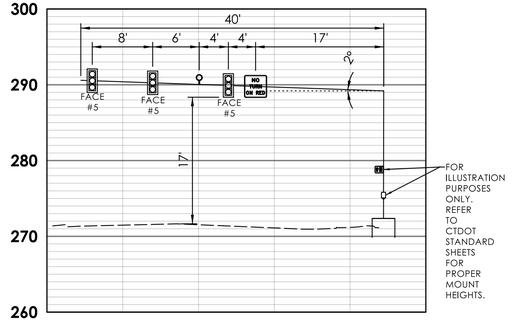
TRAFFIC SIGNAL FACE

360 VIDEO DETECTOR

EMERGENCY PRE-EMPTION DETECTOR

PEDESTRIAN SIGNAL EQUIPMENT

MAST ARM 0151-256-B PROFILE VIEW



0 10 20
SCALE

REV. | DATE | REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

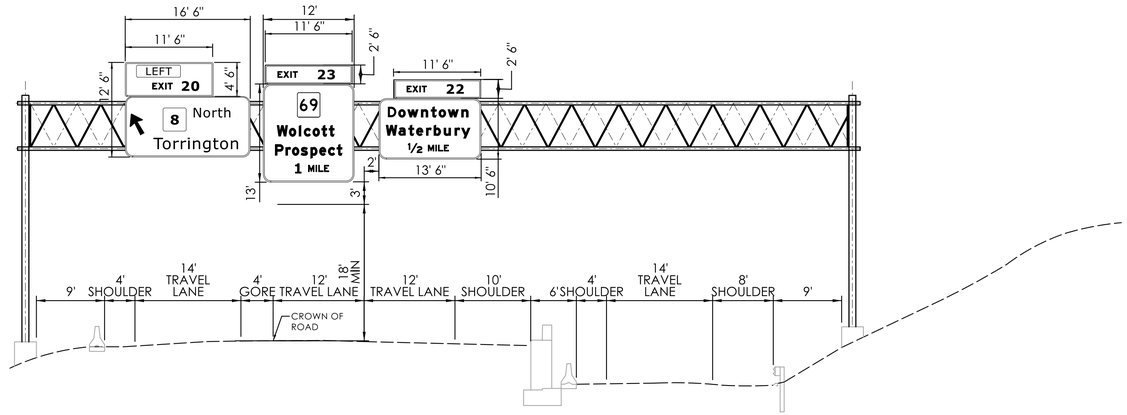
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PROJECT NO.: 0151-0340

DRAWING NO.: TXCS-08

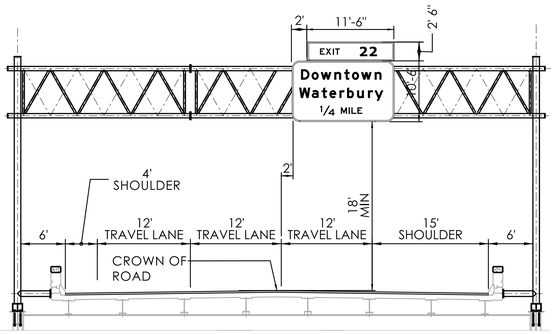
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PLOTTED DATE: 8/18/2025



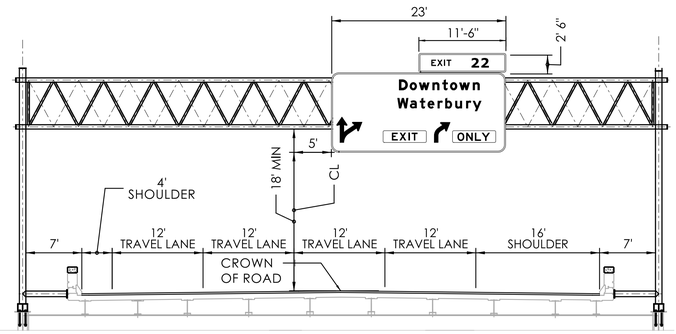
084E-151-31.93	A	B	C
SIGN SUPPORT NO.	20416		

REPLACE EXISTING SIGN PANEL "C"
WITH PROPOSED SIGN PANEL SHOWN.



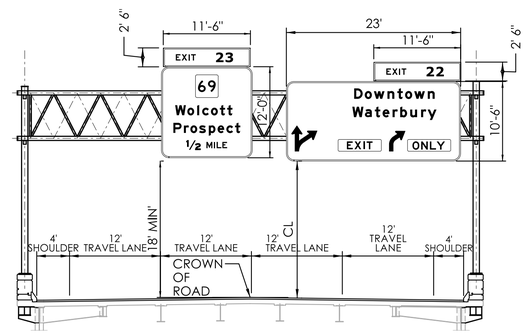
084E-151-32.30	A
SIGN SUPPORT NO.	20417

REPLACE EXISTING SIGN PANEL "A"
WITH PROPOSED SIGN PANEL SHOWN.
STATION1176+05



084E-151-32.44	A
SIGN SUPPORT NO.	20418

REPLACE EXISTING SIGN PANEL "A"
WITH PROPOSED SIGN PANEL SHOWN.
STATION 1183+22



084E-151-32.58	A	B
SIGN SUPPORT NO.	20419	

REPLACE EXISTING SIGN PANEL "B"
WITH PROPOSED SIGN PANEL SHOWN.
STATION 1190+36

GENERAL NOTES:

1. SEE SPM-01 TO SPM-10 SIGNING AND PAVEMENT MARKING PLANS.
2. THIS SHEET IS USED TO SHOW THE LOCATION OF SIGN SUPPORT FOUNDATIONS RELATIVE TO THE EDGE OF THE ROAD AND THE LOCATION OF SIGNS RELATIVE TO THE ROADWAY LANES AND CROSS SLOPE.
3. ALL INFORMATION ON THIS SHEET IS APPROXIMATE.
4. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO ORDERING SIGN SUPPORT STRUCTURES
5. BOTTOM OF SIGN TO BE A MIN. OF 18'-0" FROM HIGH POINT OF ROADWAY.
6. REFER TO SPECIAL PROVISION FOR ITEM #1207041A - SIGN FACE - EXTRUDED ALUMINUM (TYPE XI RETROREFLECTIVE SHEETING) FOR SIGN DETAILS AND DIMENSIONS.

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK:

DESIGNER/DRAFTER: S. SEPERACK CHECKED BY: M. KURKER

0 10 20
SCALE

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: OVERHEAD SIGN CROSS SECTIONS - I-84 EASTBOUND

PROJECT NO.: 0151-0340

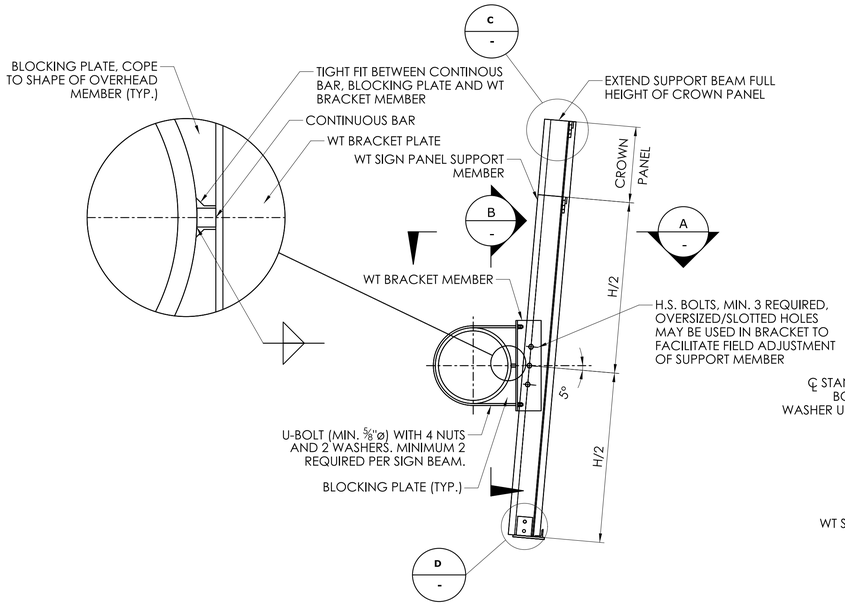
DRAWING NO.: TXCS-09

SHEET NO.: 07.50

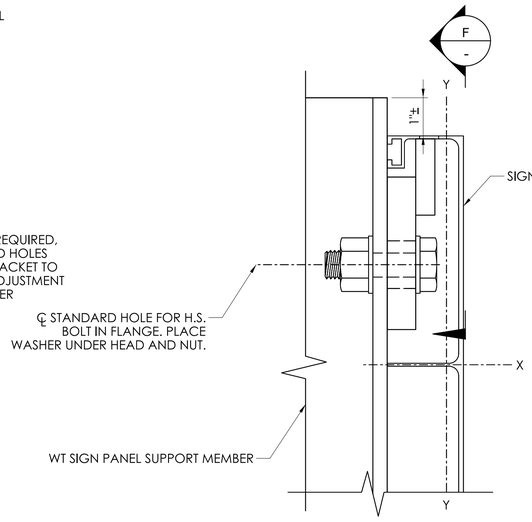
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PLOTTED DATE: 8/18/2025

VERTICAL ATTACHMENT MEMBER NOTE

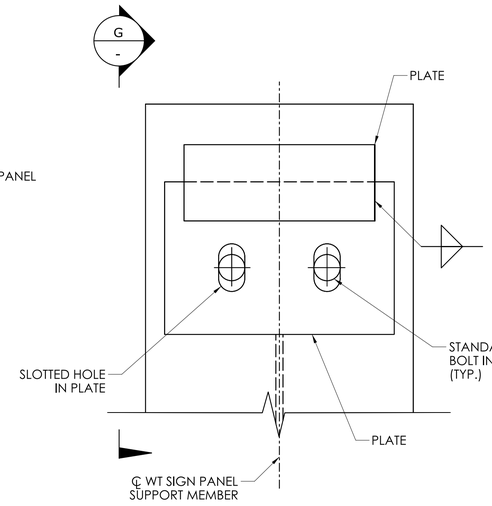
1. VERTICAL ATTACHMENT DETAILS ARE SHOWN SCHEMATICALLY ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE CONFIGURATION AND DESIGN OF THE VERTICAL ATTACHMENTS.



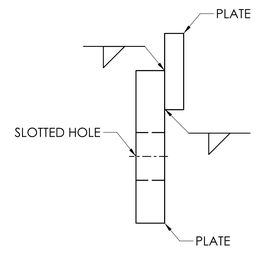
VERTICAL ATTACHMENT MEMBER DETAIL
SCALE: NOT TO SCALE



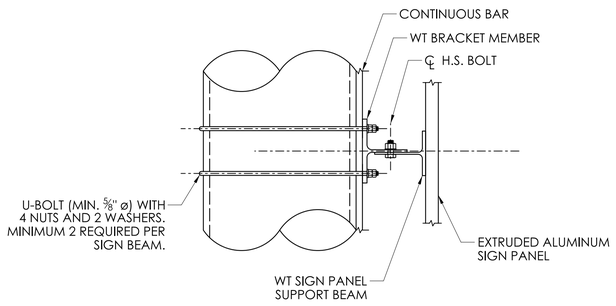
DETAIL C — NOT TO SCALE



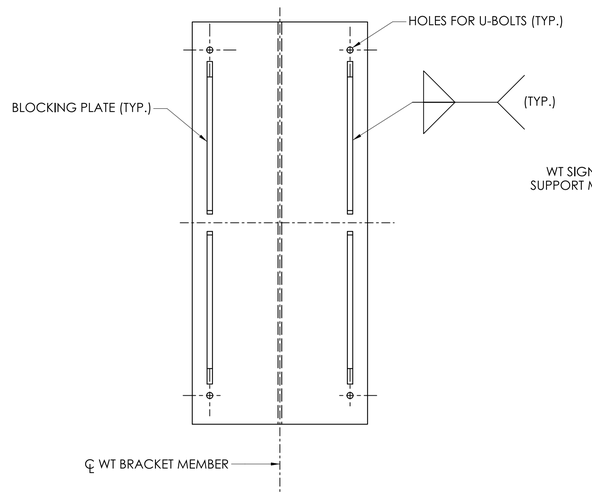
SECTION F — NOT TO SCALE



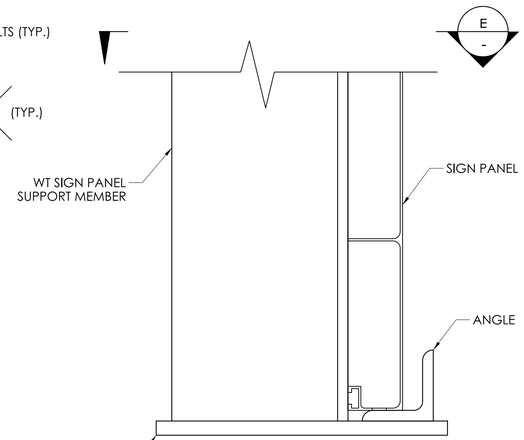
SECTION G — NOT TO SCALE



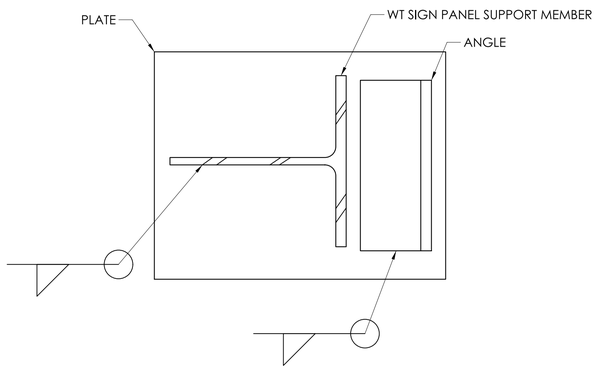
SECTION A — NOT TO SCALE



SECTION B — NOT TO SCALE



DETAIL D — NOT TO SCALE



SECTION E — NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: BL Companies, 100 Constitution Plaza, 10th Floor, Hartford, CT 06103

DESIGNER/DRAFTER: CHECKED BY:

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

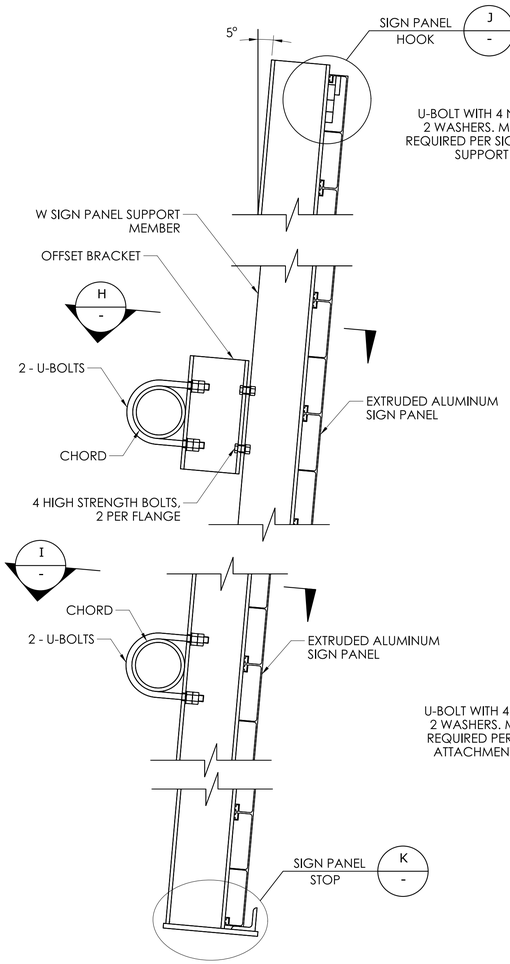
DRAWING TITLE: VERTICAL ATTACHMENT MEMBER DETAILS - 1

PROJECT NO.: 0151-0340

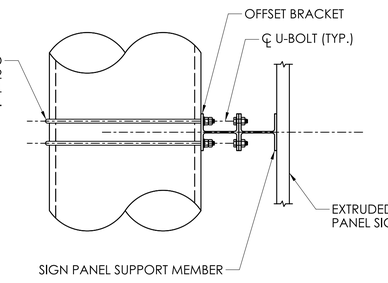
DRAWING NO.: TXCS-10

SHEET NO.: 07.51

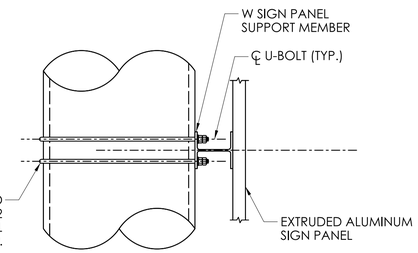
LASTED SAVED BY: tVitale **FILE NAME:** \\blcompanies.com\dfs\proj\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_TXCS_10-11.dgn
PLOTTED DATE: 8/18/2025



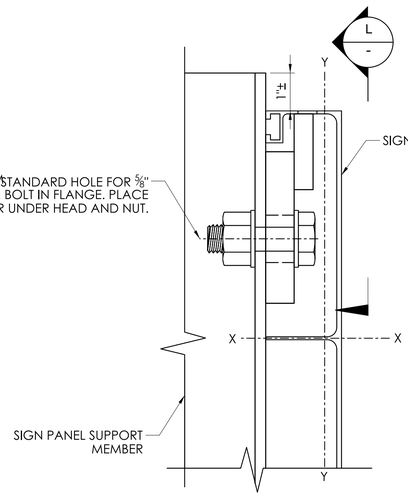
VERTICAL ATTACHMENT DETAIL
SCALE: NOT TO SCALE



SECTION H - NOT TO SCALE



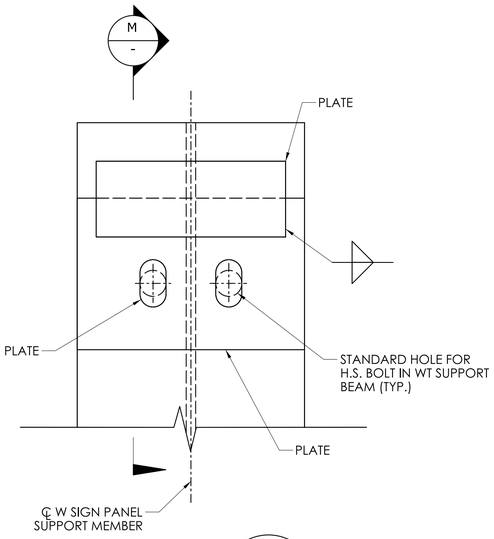
SECTION I - NOT TO SCALE



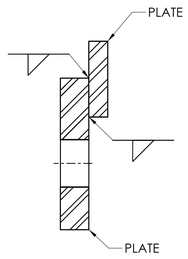
DETAIL J - NOT TO SCALE

VERTICAL ATTACHMENT MEMBER NOTE

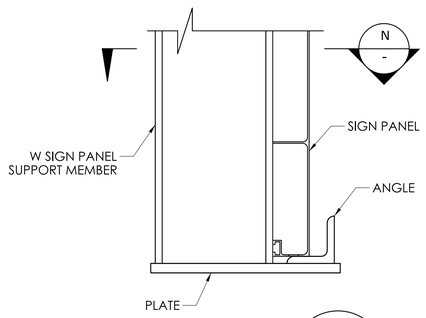
1. VERTICAL ATTACHMENT DETAILS ARE SHOWN SCHEMATICALLY ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE CONFIGURATION AND DESIGN OF THE VERTICAL ATTACHMENTS.



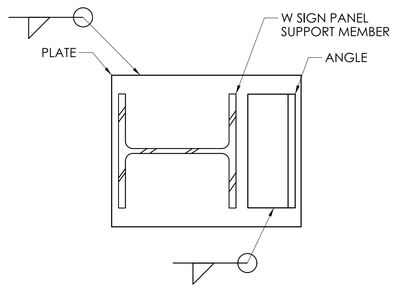
SECTION L - NOT TO SCALE



SECTION M - NOT TO SCALE



DETAIL K - NOT TO SCALE



SECTION L - NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: BL Companies, 100 Constitution Plaza, 10th Floor, Hartford, CT 06103
DESIGNER/DRAFTER: CHECKED BY:

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: VERTICAL ATTACHMENT MEMBER DETAILS - 2

PROJECT NO.: 0151-0340

DRAWING NO.: TXCS-11

SHEET NO.: 07.52

LASTED SAVED BY: IVitale **FILE NAME:** G:\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_TXCS_10-11.dgn
PLOTTED DATE: 8/18/2025

R1 - SERIES

R1-1 *



LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.85	18	31-0532	1	.080
5.19	30	31-0552	1	.080
7.98	36	31-0553	1	.080
13.3	48	31-0557	2	.100

R1-2 *



LEGEND - RED
BACKGROUND -WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.97	18	31-0520	1	.080
3.90	36	31-0523	1	.080
6.77	48	31-0522	2	.100
10.83	60	31-0528	2	.100

R1-3P *



LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	18X6	31-0508		.080

R2 - SERIES

R2-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-5505	1	.080
7.50	30X36	31-5504	1	.080
12.00	36X48	31-5506	2	.100
20.00	48X60	31-5507	2	.100

R2-4a



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
32	48X96	31-5510	2	.125

R2-6bP (CT)



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
12.00	48X36	31-1934	2	.125

R3 - SERIES

R3-1



LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1604	1	.080
9.00	36X36	31-1627	2	.080

R3-2



LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1603	1	.080
9.00	36X36	31-1629	2	.080

R3-3



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1648	1	.080
9.00	36X36	31-1647	2	.080

R3-4



LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1622	1	.080
9.00	36X36	31-1632	2	.080

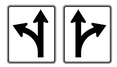
R3-5



31-0183 31-0184

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36		1	.080

R3-6



31-0157 31-0158

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36		1	.080

R3-7



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0117	1	.080
9.00	36X36	31-0120	2	.080

R3-7



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0118	1	.080
9.00	36X36	31-0123	2	.080

R3-8

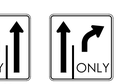
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X24	31-0175	1	.080

R3-8



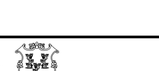
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30	31-0290	1	.080

R3-8



31-0222 31-0223

R3-8



31-0262 31-0261

R3-8



31-0282 31-0283

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

R3-8



31-0295 31-0219

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

R3-8



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31-0279	2	.100

R3-8



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30		1	.080

R3-8b



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30	31-0302	2	.100

R3-8b



31-0307 31-0372

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30		2	.100

R3-8b



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31-0334	2	.100

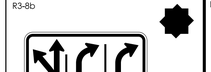
R3-8b



31-0370 31-0371

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30		2	.100

R3-8b



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
11.25	54X30	31-0353	2	.100

R3-8



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36X36	31-0213	2	.100

R4 - SERIES

R4-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1502	1	.080

R4-16



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-1574	2	.100

R4-3



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1562	1	.080
20.00	48X60	31-1564	2	.100

R4-7



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1526	1	.080
12.00	36X48	31-1536	2	.100
20.00	48X60	31-1546	2	.100

R5 - SERIES

R5-1 *



LEGEND - WHITE
BACKGROUND - WHITE
CIRCLE - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-1119	1	.080
9.00	36X36	31-1120	2	.080
16.00	48X48	31-1121	2	.100

R5-10a(CT)



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36X36	31-1775	2	.100

R5-1a *



LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	36X24	31-1122	2	.080
8.75	42X30	31-1123	2	.100

R5-11



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	31-1790	1	.080
20.00	48X36	31-1792	2	.100

R5-10a(CT)



LEGEND - BLACK
TOP SECTION BACKGROUND - YELLOW
BOTTON SECTION BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
32.50	60X78	31-1719	2	.125

R5-10c



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	31-1774	1	.080

R6 - SERIES

R6-1 *



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	36X12	31-1188	1	.080
6.75	54X18	31-1189	2	.100

R6-1 *



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	36X12	31-1177	1	.080
6.75	54X18	31-1178	2	.100

R7 - SERIES

R7-1



LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0630	1	.080

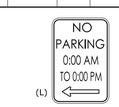
R7-1



LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0613	1	.080

R7-2a



LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0603	1	.080

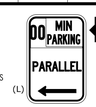
R8 - SERIES

R8-7



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
12.00	48X36	31-0670	2	.100

R7-108(CT)



LEGEND - GREEN
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0632	1	.080

R9 - SERIES

R9-3



LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	18X18	31-1705	1	.080
4.00	24x24	31-1769	1	.080
6.25	30x30	31-1770	1	.080

R9-3a



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-1702	1	.080

R9-6



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-1796	1	.080

R10 - SERIES

R10-6



31-0801 31-0802

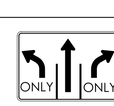
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	24X36		1	.080

R10-11b



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36X36	31-0816	2	.080

R10-11c(CT)



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0847	1	.080

R10-7



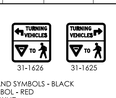
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-0806	1	.080

R10-10L



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0852	1	.080

R10-15 *

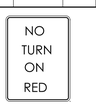


31-1626 31-1625

LEGEND AND SYMBOLS - BLACK
YIELD SYMBOL - RED
BACKGROUND:
TOP - FLUORESCENT YELLOW-GREEN
BOTTOM - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30		1	.080

R10-11a



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0830	1	.080
12.00	36X48	31-0819	2	.100

R11 - SERIES

R11-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1915	1	.080
20.00	48X60	31-1918	2	.100

RETROREFLECTIVE STRIP



LEGEND - N/A
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.00	4X48	31-5003	1	.080
2.00	4X72	31-5004	1	.080

THIS SIGN ADDED FOR THIS PROJECT ONLY.

NOTES:

1. THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R- SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z".
2. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
3. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
4. POSTS SHALL BE 4 LBS./FT.
5. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
6. FOR OVERHEAD MOUNTED SIGNS, SEE STANDARD SHEET TR-1114_01 - "BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL."

COLORS:

BACKGROUND - WHITE - EXCEPT AS NOTED.

LEGEND - BLACK - EXCEPT AS NOTED.

ALL SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING WITH THE EXCEPTION OF OVERHEAD MOUNTED SIGNS AND SIGNS DESIGNATED WITH AN * WHICH SHALL BE TYPE XI RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
4	10-2021	REVISED SHEETING TYPE	TR-GS_01
3	12-2018	REVISED RETROREFLECTIVE STRIPS	TR-GS_01
2	10-2018	REVISED R5-11 SIGNS PER MUTCD	TR-GS_01
1	6-2018	NEW SHEET ISSUED	TR-GS_01

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/18/2025

DESIGNER/DRAFTER: D. GEHRING
CHECKED BY: M. KURKER
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_GS_0151-0340_01-03_Sign Face Sheet Aluminum.dgn

SIGNATURE/ BLOCK:

Michael M Kurker
STATE OF CONNECTICUT
MICHAEL M. KURKER
34338
LICENSED
PROFESSIONAL ENGINEER

BL Companies
100 Constitution Plaza
10th Floor
Hartford, CT 06103

PROJECT TITLE:
REMOVAL OF I-84 EASTBOUND
EXIT 21 OFF-RAMP

TOWN: WATERBURY

DRAWING TITLE:
SIGN FACE SHEET ALUMINUM (X)
R-SERIES TYPICAL SIGN DETAILS

PROJECT NO. 0151-0340
DRAWING NO. TR-GS_01
SHEET NO. 07.53

S - SERIES

S1-1



LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.75	36	41-2112	1	.080
12.00	48	41-2113	2	.100

W1 - SERIES

W1-1L



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4006	1	.080
9.00	36	41-4031	1	.080

W1-1R



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4005	1	.080
9.00	36	41-4160	1	.080

W1-6



LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW
(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.00	48X24	41-4223	2	.100
12.50	60X30	41-4262	2	.100

W1-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4029	1	.080
9.00	36	41-4169	1	.080

W1-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4168	1	.080
9.00	36	41-4032	1	.080

W1-7



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.00	48X24	41-4207	2	.100
12.50	60X30	41-4208	2	.100

W1-8



LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW
(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	18X24	41-3951	1	.080
7.50	30X36	41-4211	1	.080
12.00	36X48	41-4260	2	.080

W2 - SERIES

W2-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4226	1	.080
9.00	36	41-4236	1	.080

W2-2



(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4225	1	.080
9.00	36	41-4235	1	.080

W3 - SERIES

W3-1



OCTAGON - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0501	1	.080
16.00	48	41-0503	2	.100

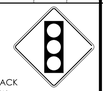
W3-2



TRIANGLE - RED & WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0504	1	.080
16.00	48	41-0506	2	.100

W3-3



SYMBOL & LEGEND - BLACK
BACKGROUND - YELLOW
TOP CIRCLE - RED
BOTTOM CIRCLE - GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0835	1	.080
16.00	48	41-0848	2	.100

WHEN FLASHING STOP AHEAD

W/ FLASHERS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
25.00	60	41-0534	2	.125

W4 - SERIES

W4-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4448	1	.080
16.00	48	41-4452	2	.100

W4-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4449	1	.080
16.00	48	41-4459	2	.100

W4-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4442	1	.080
16.00	48	41-4446	2	.100

W4-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4441	1	.080
16.00	48	41-4447	2	.100

W4-3



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4468	1	.080
16.00	48	41-4435	2	.100

W4-3



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4470	1	.080
16.00	48	41-4434	2	.100

W4-6



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
16.00	48	41-4475	2	.100

W4-4aP (CT)



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.75	30X18	41-0543	1	.080

W5 - SERIES

W5-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4402	1	.080
16.00	48	41-4404	2	.100

W6 - SERIES

W6-1



W6-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4335	1	.080
16.00	48	41-4330	2	.100

W6-3



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4329	1	.080
16.00	48	41-4331	2	.100

W7 - SERIES

W7-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4506	1	.080
9.00	36	41-4530	1	.080
16.00	48	41-4508	2	.100

W8 - SERIES

W8-5



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4519	1	.080
9.00	36	41-4520	1	.080
16.00	48	41-4521	2	.100

W9 - SERIES

W9-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4443	1	.080
16.00	48	41-4444	2	.100

W9-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4440	1	.080
16.00	48	41-4445	2	.100

W9-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4454	1	.080
16.00	48	41-4456	2	.100

W9-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4453	1	.080
16.00	48	41-4455	2	.100

W11 - SERIES

W11-2



LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4829	1	.080
9.00	36	41-4830	1	.080

W11-8



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4680	1	.080
9.00	36	41-4681	1	.080

W11-1



LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4840	1	.080

W12 - SERIES

W12-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4213	1	.080
9.00	36	41-4215	1	.080

W12-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4706	1	.080
16.00	48	41-4708	2	.100

LEFT LANE

(SUBPLATE)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	41-4721		.080

RIGHT LANE

(SUBPLATE)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	41-4722		.080

W13 - SERIES

W13-1P



(SUBPLATE)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	18X18	41-5566		.080
4.00	24X24	41-5567		.080
6.25	30X30	41-5574		.080

W13-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
12.00	36X48	41-5596	2	.100

W13-3



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
12.00	36X48	41-5581	2	.100

W16 - SERIES

W16-2aP



(SUBPLATE)
USE AT ADVANCE SIGN LOCATION
LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-6140		.080

W16-7PL



(SUBPLATE)
USE AT CROSSWALK
LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-2617		.080

W16-7PR



(SUBPLATE)
USE AT CROSSWALK
LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-2619		.080

W16-9P



(SUBPLATE)
USE AT ADVANCE SIGN LOCATION
LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-6126		.080
3.75	30X18	41-6137		.080

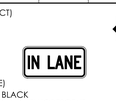
W16-2aP



(SUBPLATE)
USE AT ADVANCE SIGN LOCATION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-6130		.080
3.75	30X18	41-6134		.080

W16-1P (CT)



(SUBPLATE)
LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-4849		.080

RETROREFLECTIVE STRIP



LEGEND - N/A
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.



LEGEND - N/A
BACKGROUND - FLUORESCENT YELLOW

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	4X48	41-5001	1	.080
2.00	4X72	41-5006	1	.080

	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	4X72	41-5010	1	.080

NOTES:

1. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
2. POSTS - SEE STANDARD SHEET TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
3. POSTS SHALL BE 4 LBS./FT.
4. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
5. FLUORESCENT YELLOW RETROREFLECTIVE STRIPS SHALL BE INSTALLED ON ALL SIGN POSTS FOR W1-6 AND W1-8 SIGNS. FLUORESCENT YELLOW GREEN RETROREFLECTIVE STRIPS SHALL BE INSTALLED ON ALL SIGN POSTS FOR S1-1 AND W11-2 SIGNS LOCATED AT CROSSINGS. RETROREFLECTIVE STRIPS SHOULD NOT BE INSTALLED ON ADVANCE CROSSING WARNING SIGNS. SEE STANDARD SHEET TR-1208_01 "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS" FOR RETROREFLECTIVE STRIP DETAILS AND INSTALLATION.

COLORS:

BACKGROUND - YELLOW - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL SIGNS TO USE TYPE XI RETROREFLECTIVE SHEETING.

THIS SIGN ADDED FOR THIS PROJECT ONLY.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
2	10-2021	REVISED SHEETING TYPE	TR-GS_02
1	6-2018	NEW SHEET ISSUED	TR-GS_02

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/18/2025

DESIGNER/DRAFTER: A. MERMELSTEIN
CHECKED BY: B. SCHILLING

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_GS_0151-0340_01-03_Sign Face Sheet Aluminum.dgn

SIGNATURE/ BLOCK:

Michael H Kuhar
STATE OF CONNECTICUT MICHAEL H. KUHAR 34338 LICENSED PROFESSIONAL ENGINEER
BL Companies
100 Constitution Plaza
10th Floor
Hartford, CT 06103

PROJECT TITLE:
REMOVAL OF I-84 EASTBOUND
EXIT 21 OFF-RAMP

TOWN: WATERBURY

DRAWING TITLE:
SIGN FACE SHEET ALUMINUM (Y)
S&W SERIES TYPICAL SIGN DETAILS

PROJECT NO. 0151-0340
DRAWING NO. TR-GS_02
SHEET NO. 07.54

D1 - SERIES

D1-1
51-5202 — Variable →

D1-2
51-5203 — Variable / Variable →

VARIABLE LEGEND & ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	60X12	51-5202	2	.100
10.00	60X24	51-5203	2	.100

D3 - SERIES

D3-1
Variable Road Name

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	48X18	51-2004	2	.100
7.50	60X18	51-2001	2	.100
9.00	72X18	51-2002	2	.125
10.50	84X18	51-2003	2	.125

D4 - SERIES

D4-2
PARK - RIDE →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	51-6006	1	.080
7.50	30X36	51-6007	1	.080

D4-2
EXIT 000
1 PARK - RIDE

VARIABLE EXIT NUMBER

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
38.50	84X66	51-2082	3	.125

D4-2
PARK - RIDE →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	51-6033	1	.080
7.50	30X36	51-6034	1	.080

D4-2
EXIT 000
1 PARK - RIDE

VARIABLE EXIT NUMBER

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
38.50	84X66	51-2095	3	.125

D4-2
PARK - RIDE →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	51-6044	1	.080
7.50	30X36	51-6045	1	.080

D4-2
EXIT 000
PARK - RIDE

VARIABLE EXIT NUMBER

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
38.50	84X66	51-2097	3	.125

D4-2
EXIT 000
PARK - RIDE

VARIABLE EXIT NUMBER

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
38.50	84X66	51-2099	3	.125

D5 - SERIES

D5-2b
REST AREA

LEGEND - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
42.25	78X78	51-6901	2	.125

SERVICE PLAZA

LEGEND - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
39.00	72X78	51-6158	2	.125

D7 - SERIES

D-7
51-6802 — Variable →
51-6803 — Variable / Variable →

W or W/O ARROW
VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.17	60X12	51-6802	2	.100
8.33	60X24	51-6803	2	.100

D9 - SERIES

D9-2
H

** FOR ARROW SUBPLATES USE M5 & M6 SERIES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6788	1	.080

51-6705 DIESEL →
51-6706 FOOD →
51-6708 GAS →
51-6709 LODGING →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	36X9		2	.080

51-5405 STATE POLICE →
51-6714 CAMPING →
51-6960 INFO →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	36X9		2	.080

D9-2
St. Mary's

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.00	24X6	51-6780	1	.080

D10 - SERIES

D10-4
NORTH
95
MILE
000

CARDINAL DIRECTION,
SHIELD AND NUMERALS ARE VARIABLE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.75	18X54	51-5307	1	.080

RECREATIONAL RS- SERIES

RS-054

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6873	1	.080

RS-117

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-7872	1	.080

51-2705
51-2706 L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.19	21X15	51-2705		.080
2.19	21X15	51-2706		.080

E5 - SERIES

E5-1a
EXIT

FOR USE AT "NO NUMBERED" EXITS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
30.00	72X60	51-6150	2	.125

E5-1a
EXIT 00
51-6125

EXIT 00
51-6124

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
32.50	78X60		2	.125

E5-1a
EXIT 00 B
51-6127

EXIT 00 B
51-6126

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
45.00	108X60		2	.125

E5-1a
EXIT 00 A-B
51-6129

EXIT 00 A-B
51-6128

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
57.50	138X60		2	.125

I - SERIES

I-3
(Variable) River

VARIABLE: RIVER, BROOK, CREEK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	18X12	51-2009	1	.080
3.00	12X36	51-5103	1	.080
4.00	12X48	51-5104	1	.080
5.00	12X60	51-5105	1	.080

(Town Name)
(INCORPORATED (DATE) OR SETTLED)
TOWN LINE

VARIABLE: TOWN / CITY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	40X27	51-2020	2	.080

I-7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-1448	1	.080
6.25	30X30	51-1445	1	.080

PARKING AREA PATROLLED

LEGEND - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30	51-5937	2	.080

INCIDENT MANAGEMENT

N .0 / N .00 / N .000

CARDINAL DIRECTION VARIABLE - N, S, E, W

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	12X36	51-5103	1	.080
4.00	12X48	51-5104	1	.080
5.00	12X60	51-5105	1	.080

SYMBOL - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	18X24	51-5943	1	.080

51-6504 Variable
51-6505 Variable / Variable

TO BE SUBMOUNTED W/ 51-5943
LEGEND - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	18X6	51-6504		.080
1.50	18X12	51-6505		.080

I-8

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-5927	1	.080

M1 - SERIES

M1-1
INTERSTATE CONNECTICUT 00 — 51-6662, 51-6666 VARIABLE: 1 or 2 DIGITS
INTERSTATE CONNECTICUT 000 — 51-6663, 51-6667 VARIABLE: 3 DIGITS

LEGEND - WHITE
BACKGROUND - RED & BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.20	24X24	51-6662	1	.080
3.99	30X24	51-6663	1	.080
7.20	36X36	51-6666	2	.080
8.99	45X36	51-6667	2	.100

M1-4
00 — 51-6615, 51-6635 VARIABLE: 1 or 2 DIGITS
000 — 51-6644, 51-6645 VARIABLE: 3 DIGITS

LEGEND - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6615	1	.080
5.00	30X24	51-6644	1	.080
9.00	36X36	51-6635	2	.080
11.25	45X36	51-6645	2	.100

M1-5
00 — 51-6616, 51-6636 VARIABLE: 1 or 2 DIGITS
000 — 51-6647, 51-6646 VARIABLE: 3 DIGITS

LEGEND - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6616	1	.080
5.00	30X24	51-6647	1	.080
9.00	36X36	51-6636	2	.080
11.25	45X36	51-6646	2	.100

M2 - SERIES

M2-1
JCT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-6640	(1)	.080
2.19	21X15	51-6610	(2)	.080

M3 - SERIES

M3-1
NORTH

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6651	(1)	.080
2.00	24X12	51-6611	(2)	.080
4.50	36X18	51-6655	(1)	.080
4.50	36X18	51-6625	(2)	.080

M3-2
EAST

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6652	(1)	.080
2.00	24X12	51-6612	(2)	.080
4.50	36X18	51-6656	(1)	.080
4.50	36X18	51-6626	(2)	.080

M3-3
SOUTH

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6653	(1)	.080
2.00	24X12	51-6613	(2)	.080
4.50	36X18	51-6657	(1)	.080
4.50	36X18	51-6627	(2)	.080

M3-4
WEST

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6654	(1)	.080
2.00	24X12	51-6614	(2)	.080
4.50	36X18	51-6658	(1)	.080
4.50	36X18	51-6628	(2)	.080

M4 - SERIES

M4-5
TO

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6650	(1)	.080
2.00	24X12	51-6620	(2)	.080

M5 - SERIES

M5-1
51-2690 / 51-2630 — 51-2691 / 51-2631

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2690	(1)	.080
2.19	21X15	51-2691	(1)	.080
2.19	21X15	51-2630	(2)	.080
2.19	21X15	51-2631	(2)	.080

M5-2
51-2692 / 51-2632 — 51-2693 / 51-2633

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2692	(1)	.080
2.19	21X15	51-2693	(1)	.080
2.19	21X15	51-2632	(2)	.080
2.19	21X15	51-2633	(2)	.080

M6 - SERIES

M6-1
L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2686	(1)	.080
2.19	21X15	51-2626	(2)	.080

M6-4

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2687	(1)	.080
2.19	21X15	51-2627	(2)	.080

M6-2
51-2688 / 51-2629 — 51-2689 / 51-2628 / 51-2609

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2688	(1)	.080
2.19	21X15	51-2689	(1)	.080
2.19	21X15	51-2628	(2)	.080
2.19	21X15	51-2629	(2)	.080
4.38	30X21	51-2609	(2)	.080

M6-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2685	(1)	.080
2.19	21X15	51-2625	(2)	.080

THIS SIGN ADDED FOR THIS PROJECT ONLY.

NOTES:

1. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
2. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
3. POSTS SHALL BE 4 LBS./FT.
4. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

COLORS:

D - SERIES
D1, 2, 3, 4, 10 BACKGROUND-GREEN, LEGEND-WHITE
D7, RS BACKGROUND-BROWN, LEGEND-WHITE
D9 BACKGROUND-BLUE, LEGEND-WHITE
ALL OTHER D-SERIES AS NOTED

E - SERIES
BACKGROUND-GREEN, LEGEND-WHITE

I - SERIES
BACKGROUND-GREEN, LEGEND-WHITE (EXCEPT AS NOTED)

M2 - M6 SERIES
(1) BACKGROUND-BLUE, LEGEND-WHITE
(2) BACKGROUND-WHITE, LEGEND-BLACK

ALL SIGNS TO USE TYPE XI RETROREFLECTIVE SHEETING WITH THE EXCEPTION OF SIDE MOUNTED SIGNS WITH WHITE BACKGROUND WHICH SHALL BE TYPE IX RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
4	10-2021	REVISED SHEETING TYPE	TR-GS_04
3	12-2018	REVISED D2, D3, D9, AND I SIGN SERIES.	TR-GS_03
2	7-2018	REVISED BROWN COLOR TO TYPE IV.	TR-GS_03
1	6-2018	NEW SHEET ISSUED	TR-GS_03

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/18/2025

DESIGNER/DRAFTER: A. MERMELSTEIN
CHECKED BY: B. SCHILLING

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_GS_0151-0340_01-03_Sign Face Sheet Aluminum.dgn

SIGNATURE/ BLOCK:
Michael H. Sabo
STATE OF CONNECTICUT — MICHAEL H. SABO — 34338 — LICENSED PROFESSIONAL ENGINEER
BL Companies
100 Constitution Plaza
10th Floor
Hartford, CT 06103

PROJECT TITLE:
REMOVAL OF I-84 EASTBOUND
EXIT 21 OFF-RAMP

TOWN: WATERBURY

DRAWING TITLE:
SIGN FACE SHEET ALUMINUM (Z)
D,RS,E,I,&M SERIES TYPICAL SIGN DETAILS

PROJECT NO. 0151-0340
DRAWING NO. TR-GS_03
SHEET NO. 07.55

Description	Assembly(lb)	Mounting kit(lb)	Total Weight (lb)	Total Surface Area (sf)	Projected area (sf, front)	Projected area (sf,bottom)
Single Section Signal face w/ backplate	14	11	25	14.25	3.8	0.66
3-Section Signal face w/ backplate	40	11	51	29.75	8.2	0.66
4-Section Signal face w/ backplate	53	11	64	37.5	10.3	0.66
5-Section "doghouse" Signal face w/ backplate	65	11	76	45	12.8	1.32
5-Section vertical Signal face w/ backplate	65	11	76	45	10.5	0.66
Pedestrian signals (Countdown)	23	9	32	5.4	1.97	0.38
Pedestrian pushbutton (APS)	7	INCL.	7	1.5	0.5	0.06
Camera - IP & Thermal	7	-	-	3.25	0.25	0.7
Smartmount bracket (10' riser), Junction box & mounting kit	-	16.75	23.75	-	-	-
Extension bracket (3' riser), Junction box & mounting kit	-	9.75	16.75	-	-	-
Horizontal (20'), Junction box & mounting kit	-	156.45	163.45	-	-	-
Camera - 360-degree	7	-	-	2.75	0.5	0.53
Smartmount bracket (10' riser), Junction box & mounting kit	-	16.75	23.75	-	-	-
Extension bracket (3' riser), Junction box & mounting kit	-	9.75	16.75	-	-	-
Horizontal (20'), Junction box & mounting kit	-	156.45	163.45	-	-	-
Camera repeater	0.85	INCL.	0.85	0.4	0.105	0.105
EVPS - Siren detector	4.125	INCL.	4.125	2.5	0.25	0.3
Blank out sign 24"x30"	60	11	71	24.5	6.75	1.72
Sheet aluminum sign	4 lb/sf	11	varies	varies	varies	varies
Radar - Wavetronix Advance sensor	3.8	6.7	10.5	3.1	0.97	0.3
Radar - Wavetronix Matrix sensor	4.3	6.7	11	3	0.97	0.3
Road Side Unit (RSU) - by Cohda Wireless	4.8	INCL.	4.8	1.44	0.43	0.17
Luminaire	21	153	174	8.45	0.38	2.99
CCTV camera - by American Dynamics	8.6	INCL.	8.6	1.9	0.27	0.13
Vantage Vector Hybrid(radar&video) - by Iteris	10	INCL.	10	9.76	0.034	1.77
RZ-4 Advanced WDR - by Iteris	5.7	INCL.	5.7	2.15	0.14	0.6
VantageRadius(radar&video) - by Iteris	3	INCL.	3	1.9	0.38	0.32

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 8/18/2025

DESIGNER/DRAFTER: D. GEHRING
CHECKED BY: M. KURKER
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_GS_0151-0340_04_Structures Data.dgn

SIGNATURE/ BLOCK:

Michael H Kurker
STATE OF CONNECTICUT
34536
LICENSED PROFESSIONAL ENGINEER

BL Companies
100 Constitution Plaza
10th Floor
Hartford, CT 06103

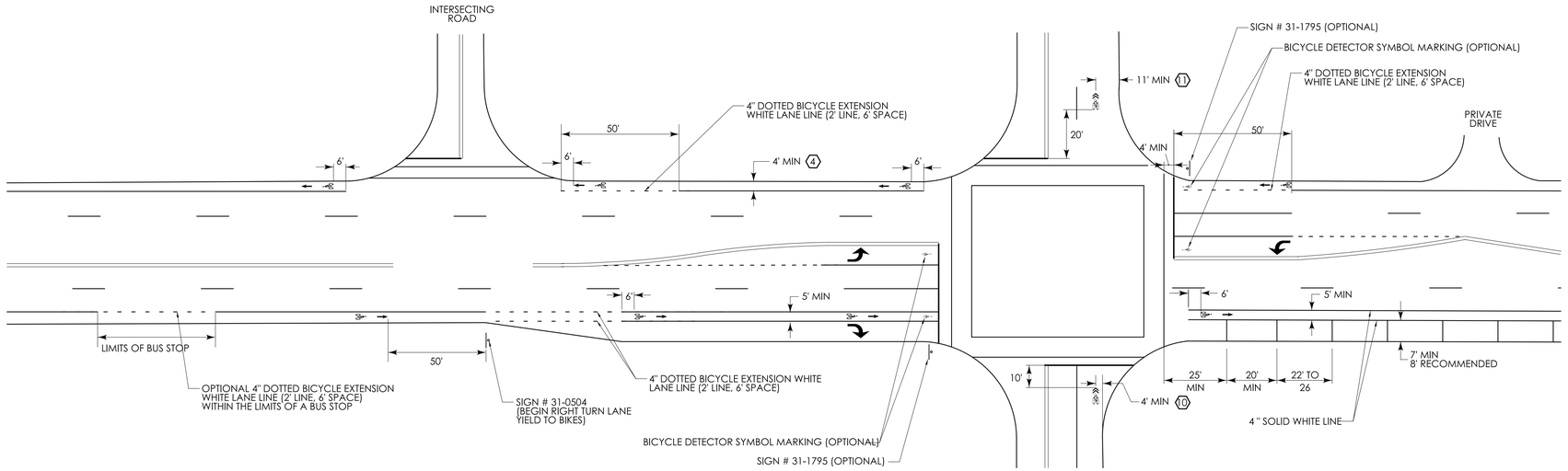
PROJECT TITLE:
REMOVAL OF I-84 EASTBOUND
EXIT 21 OFF-RAMP

TOWN: WATERBURY

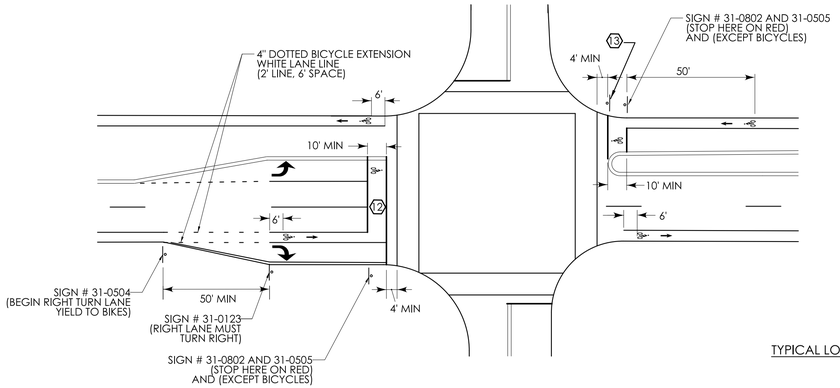
DRAWING TITLE: STRUCTURES DATA

PROJECT NO. 0151-0340
DRAWING NO. TR-GS_04
SHEET NO. **07.56**

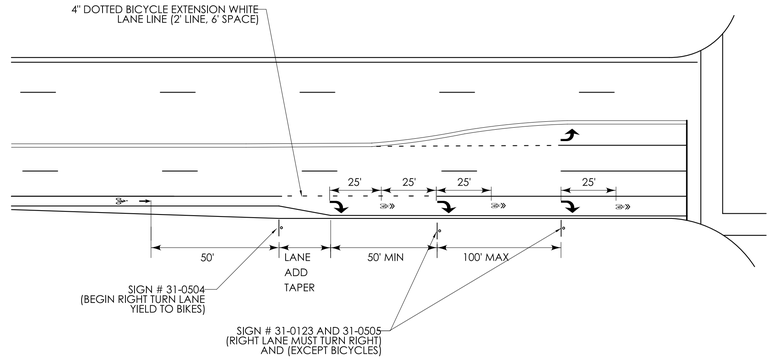
TYPICAL BICYCLE LANE AND SHARROW MARKING DETAIL



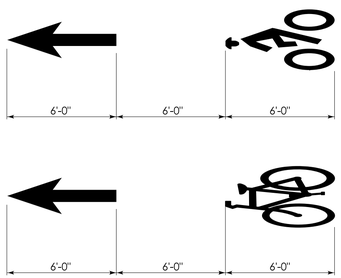
TYPICAL BICYCLE BOX DETAIL



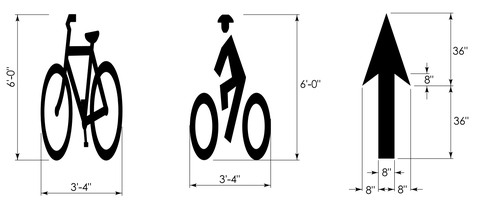
TYPICAL SHARED BICYCLE LANE AND TURN LANE DETAIL



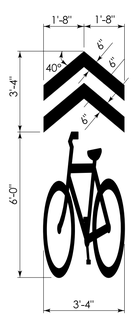
TYPICAL LONGITUDINAL SPACING



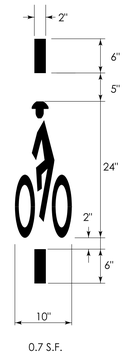
BICYCLE LANE SYMBOL MARKINGS



SHARED LANE SYMBOL MARKING



BICYCLE DETECTOR SYMBOL MARKING



NOTES:

1. BICYCLE PAVEMENT MARKINGS AND GREEN PAVEMENT TO BE OWNED AND MAINTAINED BY THE MUNICIPALITY.
2. MUNICIPALITY MUST OBTAIN FHWA INTERIM APPROVAL FOR BICYCLE BOX INSTALLATION AND COMPLY WITH THE REQUIREMENTS OF FHWA INTERIM APPROVAL No. IA-18. OPTIONAL USE OF AN INTERSECTION BICYCLE BOX. BICYCLE BOX USE IS LIMITED TO SIGNALIZED INTERSECTIONS.
3. MUNICIPALITY MUST OBTAIN FHWA INTERIM APPROVAL FOR GREEN PAVEMENT INSTALLATION AND COMPLY WITH THE REQUIREMENTS OF FHWA INTERIM APPROVAL No. IA-14, OPTIONAL USE OF GREEN COLORED PAVEMENT FOR BIKE LANES AND FHWA INTERPRETATION LETTER 9(09)-86(I). CHROMATICITY REQUIREMENTS FOR GREEN-COLORED PAVEMENT. GREEN COLORED PAVEMENT MAY BE INSTALLED ONLY WITHIN A BICYCLE LANE OR WITHIN AN EXTENSION OF A BICYCLE LANE.
4. 5 FEET WIDE BICYCLE LANES SHOULD BE USED IF IMMEDIATELY ADJACENT TO A CURB, GUIDE RAIL, OR OTHER VERTICAL SURFACES.
5. MARKINGS USED ON BIKEWAYS SHALL BE RETROREFLECTORIZED.
6. BICYCLE LANES MARKINGS SHOULD BE SPACED AT INTERVALS NO GREATER THAN 500 FT.
7. IF USED, SHARED LANE MARKINGS SHOULD BE SPACED AT INTERVALS NO GREATER THAN 250 FT.
8. SHARED LANE MARKINGS SHOULD NOT BE PLACED ON ROADWAYS THAT HAVE A SPEED LIMIT ABOVE 35 MPH.
9. BICYCLE DETECTOR SYMBOL MARKINGS MAY BE PLACED ON THE PAVEMENT INDICATING THE OPTIMUM POSITION FOR A BICYCLIST TO ACTUATE THE SIGNAL. THE LOCATION OF THE MARKINGS SHALL BE SPECIFIED ON THE SIGNAL PLAN. THE MARKINGS MAY BE SUPPLEMENTED BY SIDE MOUNTED SIGN # 31-1795.
10. ON STREETS WITHOUT ON-STREET PARKING AND WITH OUTSIDE TRAVEL LANES LESS THAN 14 FEET WIDE, THE CENTERS OF THE SHARED LANE MARKINGS SHOULD BE AT LEAST 4 FEET FROM THE FACE OF THE CURB, OR FROM THE EDGE OF THE PAVEMENT WHERE THERE IS NO CURB.
11. ON STREETS WITH ON-STREET PARKING THE CENTERS OF THE SHARED LANE MARKINGS SHOULD BE AT LEAST 11 FEET FROM THE FACE OF THE CURB, OR FROM THE EDGE OF THE PAVEMENT WHERE THERE IS NO CURB.
12. COUNTDOWN PEDESTRIAN SIGNAL HEADS ARE REQUIRED FOR BICYCLE BOXES LOCATED ACROSS MULTILANE APPROACHES.
13. TURNS ON RED SHALL BE PROHIBITED FROM THE APPROACH WHERE A BICYCLE BOX IS PLACED USING A NO TURN ON RED (R10-11 SERIES) SIGN.
14. AREA OF PAVEMENT MARKING SYMBOLS AS INDICATED IS APPROXIMATE.
15. REFER TO STANDARD SHEET TR-1210_04 FOR PAVEMENT MARKING LINE DETAILS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/18/2025

DESIGNER/DRAFTER: D. GEHRING
CHECKED BY: M. KURKER
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_GS_0151-0340_05_Bicycle Facilities.dgn

SIGNATURE/ BLOCK:

Michael A Tsakas
STATE OF CONNECTICUT
REGISTERED
34338
PROFESSIONAL ENGINEER
RL Companies
100 Constitution Plaza
10th Floor
Hartford, CT 06103

PROJECT TITLE:
REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

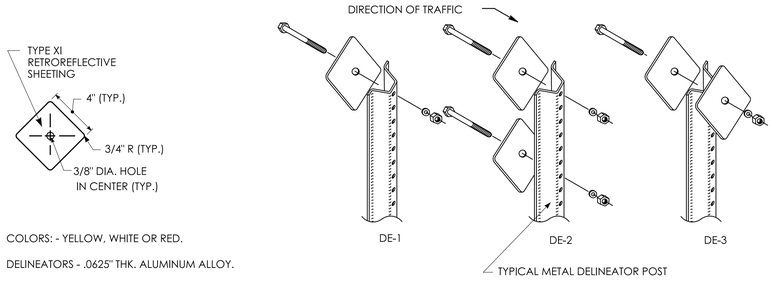
TOWN: WATERBURY

DRAWING TITLE:
BICYCLE FACILITIES TYPICAL DETAILS

PROJECT NO. 0151-0340
DRAWING NO. TR-GS_05
SHEET NO. **07.57**

DELINEATORS DE-1, DE-2, DE-3

INSTALLATION ON DELINEATOR POSTS



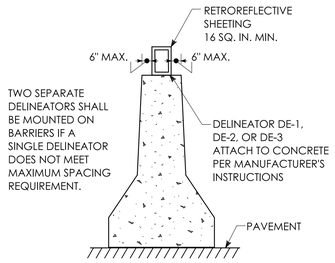
COLORS: - YELLOW, WHITE OR RED.

DELINEATORS - .0625" THK. ALUMINUM ALLOY.

FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE XI RETROREFLECTIVE SHEETING.

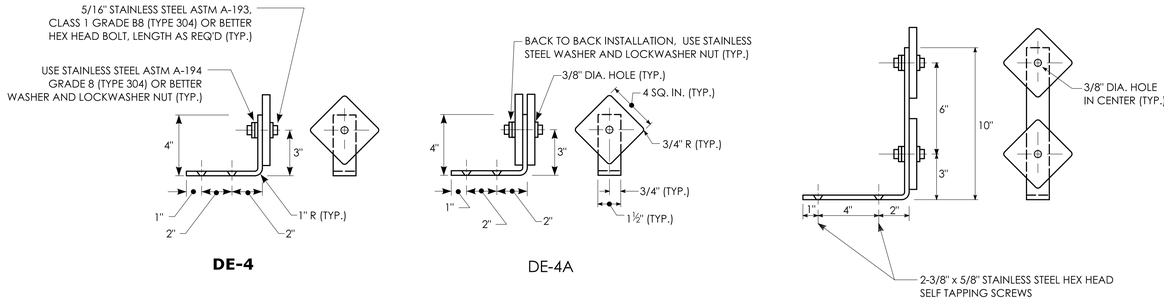
DELINEATORS SHALL BE FASTENED WITH .5/16" STAINLESS STEEL ASTM A-193 CLASS 1, GRADE B8 (TYPE 304) OR BETTER HEX HEAD BOLT (LENGTH AS REQUIRED), WASHER AND FIBER INSERT SELF LOCKING NUT, ON STANDARD METAL DELINEATOR POST.

INSTALLATION ON PERMANENT CONCRETE BARRIER, BRIDGE PARAPETS AND RETAINING WALLS



DELINEATORS DE-1, DE-2, DE-3 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

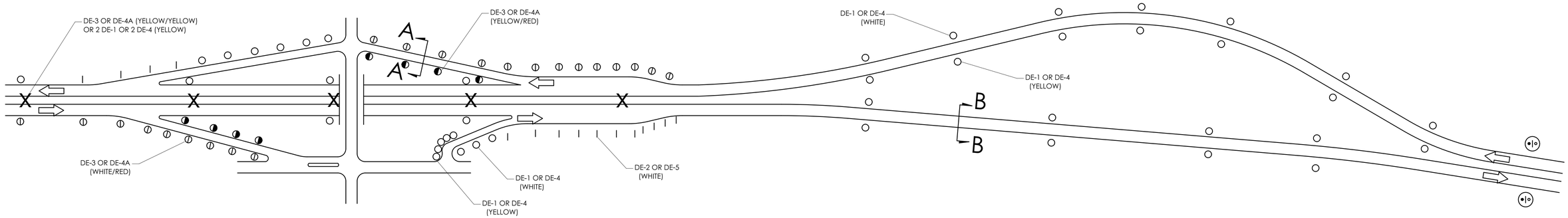
DELINEATORS DE-4, DE-4A, DE-5
FOR INSTALLATION ON METAL BRIDGE RAIL



COLORS: - YELLOW, WHITE OR RED.
DELINEATORS - .0625" THK. ALUMINUM ALLOY.
BRACKET - .125" THK. ALUMINUM ALLOY, AND SHALL CONFORM TO SPECIFICATION M.18.07-03 BRIDGE RAIL MOUNTING BRACKETS.
FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE XI RETROREFLECTIVE SHEETING.
USE STAINLESS STEEL WASHERS ON FACE OF DELINEATORS, 5/8" O.D. X 3/8" I.D. X .032" THK. (TYP.)

DELINEATORS TYPE DE-4, DE-4A, AND DE-5 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

TYPICAL MAINLINE & INTERCHANGE DELINEATION



DELINEATOR SPACING NOTES:

1) AT LOCATIONS WHERE THE MEDIAN WIDTH (BETWEEN SHOULDERS) IS 12' OR LESS, AND MEDIAN BEAM RAIL IS PRESENT, TYPE DE-3 DELINEATORS SHALL BE MOUNTED WITHIN THE MEDIAN BEAM RAIL.

2) SPACING ON MAINLINE EXPRESSWAY TANGENTS SHALL BE 400'.

3) SPACING ON MAINLINE EXPRESSWAY CURVES SHALL BE AS SPECIFIED IN THE MUTCD TABLE.

4) ON ACCELERATION AND DECELERATION LANES AND ON-RAMP TANGENT SECTIONS, DELINEATOR SPACING SHALL BE 100'.

5) ON CURVED PORTIONS OF RAMPS, DELINEATOR SPACING SHALL BE IN ACCORDANCE WITH THE MUTCD TABLE, BUT NOT TO EXCEED 100'.

6) ON OFF-RAMP TANGENT SECTIONS, DELINEATOR SPACING SHALL BE 50' THROUGHOUT.

7) GUIDE RAIL AND BARRIER DELINEATOR SPACING SHALL BE AS SPECIFIED IN THE CORRESPONDING SPECIFICATIONS AND DETAILS.

LEGEND:

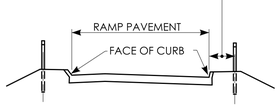
- ○ DE-1 DELINEATORS OR DE-4 DELINEATOR ASSEMBLY
- | DE-2 DELINEATORS OR DE-5 DELINEATOR ASSEMBLY (WHITE)
- X DE-3 DELINEATOR OR DE-4A DELINEATOR ASSEMBLY (YELLOW & YELLOW)
- ◑ DE-3 DELINEATORS OR DE-4A DELINEATOR ASSEMBLY (BI-COLOR: YELLOW & RED)
- ⓘ DE-3 DELINEATORS OR DE-4A DELINEATOR ASSEMBLY (BI-COLOR: WHITE & RED)
- ⊕ D10-1, 2, 3, OR 4 ASSEMBLY TO BE INSTALLED WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER. (REFERENCE LOCATION/MILE POST SIGNS)

COLOR APPLICATION, FOR DE-1 THRU DE-5

1. UNLESS INDICATED OTHERWISE, THE DELINEATOR OR BARRIER DELINEATOR COLOR SHALL CONFORM TO THE COLOR OF THE PAVEMENT EDGE LINE ON THE SIDE OF THE ROAD WHERE THE DELINEATORS OR BARRIER DELINEATORS ARE PLACED.

2. SINGLE RED DELINEATORS ARE MOUNTED ON THE BACK SIDE OF DELINEATOR POSTS FOR WRONG WAY DRIVER APPLICATIONS.

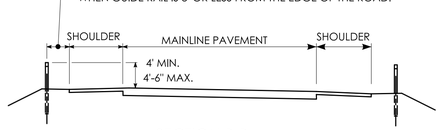
2' TYP. TO 8' MAX. AS DIRECTED BY ENGINEER. ONE OFFSET SHALL BE USED THROUGHOUT PROJECT. DELINEATORS TO BE PLACED IN LINE WITH GUIDE RAIL POSTS WHEN GUIDE RAIL IS 8' OR LESS FROM THE EDGE OF THE ROAD.



SECTION A-A

DELINEATOR PLACEMENT ON RAMPS
ON TANGENT SECTIONS - RIGHT SIDE OF RAMP
ON CURVED SECTIONS - BOTH SIDES OF CURVE
ON TANGENT AND CURVE - BOTH SIDES OF OFF-RAMP

2' TYP. TO 8' MAX. AS DIRECTED BY ENGINEER. ONE OFFSET SHALL BE USED THROUGHOUT PROJECT. DELINEATORS TO BE PLACED IN LINE WITH GUIDE RAIL POSTS WHEN GUIDE RAIL IS 8' OR LESS FROM THE EDGE OF THE ROAD.



SECTION B-B

DELINEATOR PLACEMENT ON MAINLINE

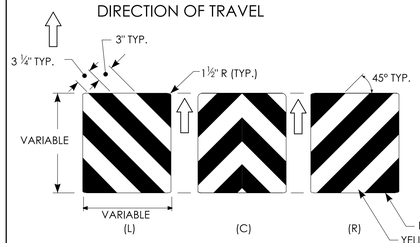
MUTCD TABLE - APPROXIMATE SPACING FOR DELINEATORS ON HORIZONTAL CURVES

RADIUS (R) OF CURVE (feet)	APPROXIMATE SPACING (S) ON CURVE (feet)
50	20
115	25
180	35
250	40
300	50
400	55
500	65
600	70
700	75
800	80
900	85
1,000	90

DISTANCE IN FEET WERE ROUNDED TO THE NEAREST 5 FEET. SPACING FOR SPECIFIC RADII MAY BE INTERPOLATED FROM TABLE. THE MINIMUM SPACING SHOULD BE 20 FEET. THE SPACING ON CURVES SHOULD NOT EXCEED 300 FEET. IN ADVANCE OF OR BEYOND A CURVE, AND PROCEEDING AWAY FROM THE END OF THE CURVE, THE SPACING OF THE FIRST DELINEATOR IS 2S, THE SECOND IS 3S, AND THE THIRD 6S BUT NOT TO EXCEED 300 FEET.

S REFERS TO THE DELINEATOR SPACING FOR SPECIFIC RADII COMPUTED FROM THE FORMULA: $S=3\sqrt{R-50}$.

ATTENUATOR REFLECTORS SIGN #40-4266



THIS SHEETING WITHOUT A SUBSTRATE TO BE INSTALLED ON THE NOSE OF THE IMPACT ATTENUATOR WITH ADHESIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE SHEETING SHALL COVER THE NOSE OF THE IMPACT ATTENUATOR. ON A CURVED NOSE, THE WIDTH OF THE SHEETING SHALL EXTEND 1" BEYOND THE POINT OF CURVATURE ON EACH SIDE OF THE NOSE. THE HEIGHT AND WIDTH OF THE SHEETING VARIES DEPENDING ON THE SIZE OF THE NOSE OF THE IMPACT ATTENUATOR.

ATTENUATOR REFLECTOR TO BE PAID FOR UNDER SECTION 18.0 IMPACT ATTENUATOR

REV.	DATE	REVISION DESCRIPTION

Richard Heller
81 Carpenter
Old Saybrook Plaza
Old Saybrook
Connecticut 06475

DESIGNER/DRAFTER: D. GEHRING CHECKED BY: M. KURKER

NOT TO SCALE

SIGNATURE/
BLOCK:

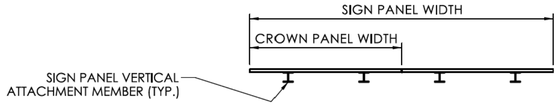
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0151-0340
PROJECT DESCRIPTION: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP
TOWN(S): WATERBURY
DRAWING TITLE: DELINEATION, DELINEATORS AND ATTENUATOR REFLECTOR DETAILS

DRAWING NO.
TR-GS_06

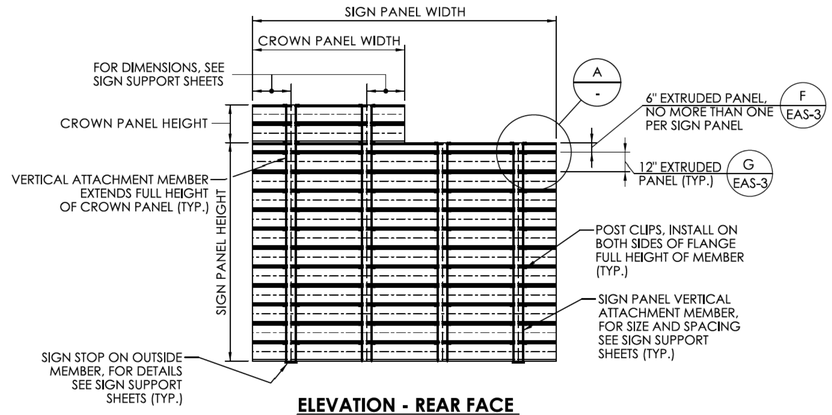
SHEET NO.
07.58

LASTED SAVED BY: RichardEH **FILE NAME:** W:\CT_CONNECT_DDE\CT_Configuration\Organization\Cell\CTDOT_Borders_Contract.cel
PLOTTED DATE: 8/18/2025



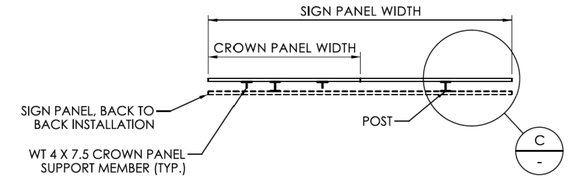
PLAN - OVERHEAD MOUNTED SIGN PANEL

SCALE: 1/4"=1'-0"



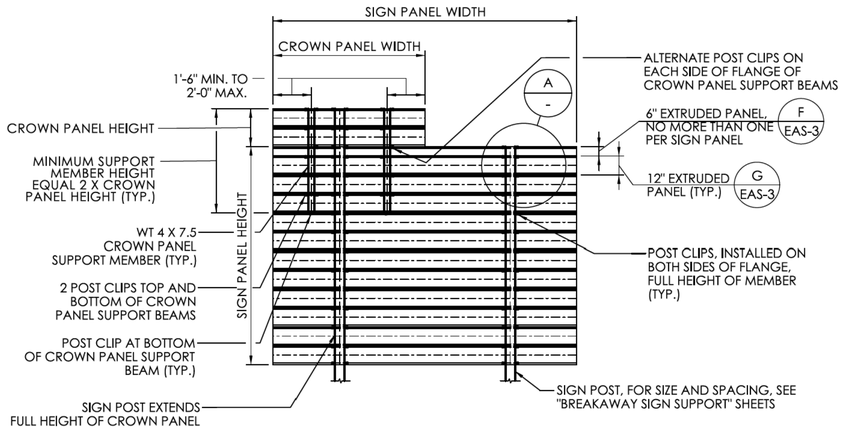
ELEVATION - REAR FACE OVERHEAD MOUNTED SIGN PANEL

SCALE: 1/4"=1'-0"



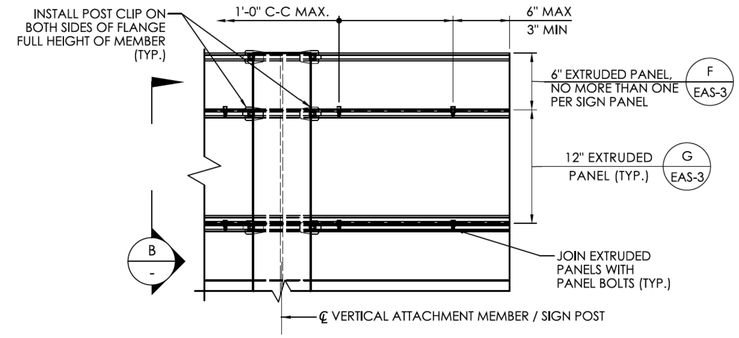
PLAN - SIDE MOUNTED SIGN PANEL

SCALE: 1/4"=1'-0"



ELEVATION - REAR FACE SIDE MOUNTED SIGN PANEL

SCALE: 1/4"=1'-0"



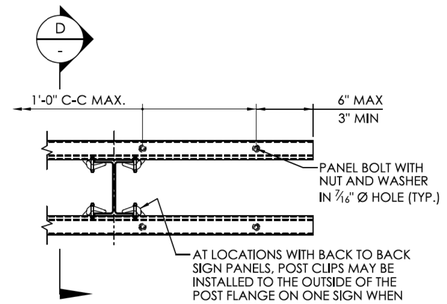
NOTE:

THE EXTRUDED ALUMINUM SIGN PANELS SHALL BE CONNECTED TOGETHER WITH PANEL BOLTS INSTALLED IN ACCORDANCE WITH THE SPACING CRITERIA SHOWN. IF THE PANEL BOLTS CANNOT BE INSTALLED DUE TO MISALIGNED HOLES, A NEW HOLE(S) SHALL BE INSTALLED IN THE FLANGE OF THE EXTRUDED PANEL. THE NEW HOLE(S) SHALL BE A MINIMUM OF 2" FROM ANY EXISTING PANEL BOLT HOLES.

SIGN PANEL CONNECTION DETAILS

A -

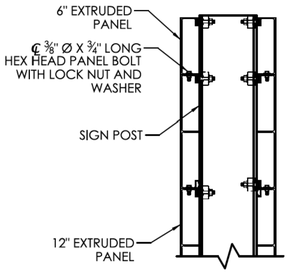
SCALE: 1 1/2"=1'-0"



PLAN - PANEL BOLT

C -

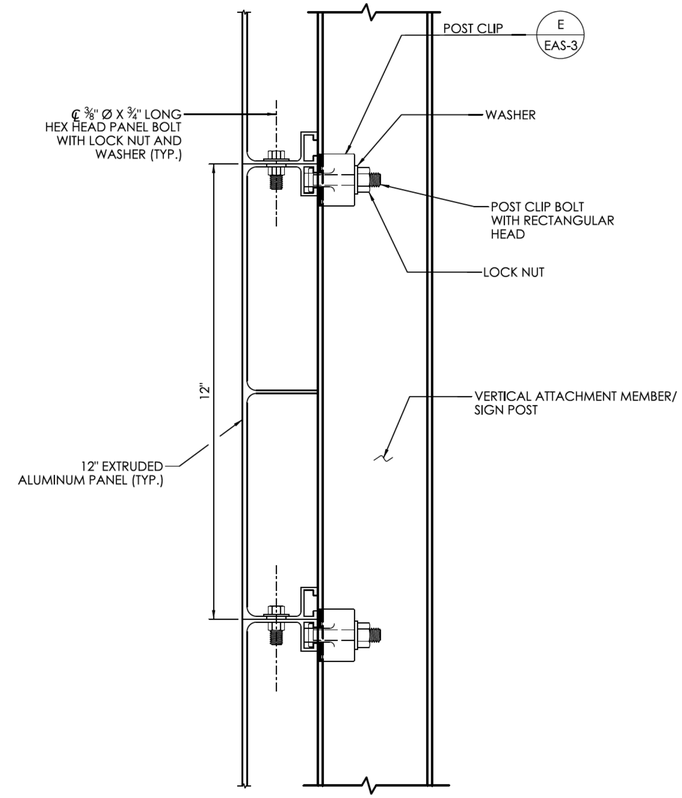
SCALE: 1 1/2"=1'-0"



SECTION - DOUBLE PANELS

D -

SCALE: 1 1/2"=1'-0"



SECTION - SIGN PANEL CONNECTION

B -

SCALE: 6"=1'-0"

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: D. GEHRING CHECKED BY: M. KURKER

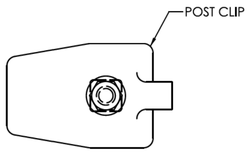
SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

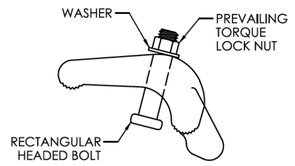
PROJECT NUMBER: 0151-0340
PROJECT DESCRIPTION: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP
TOWN(S): WATERBURY
DRAWING TITLE: EXTRUDED ALUMINUM SIGN PANEL CONNECTION DETAILS

DRAWING NO. EAS-1
SHEET NO. **07.59**

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_GS_0151-0340_07-08_Extruded Aluminum Signs.dgn
PLOTTED DATE: 8/18/2025

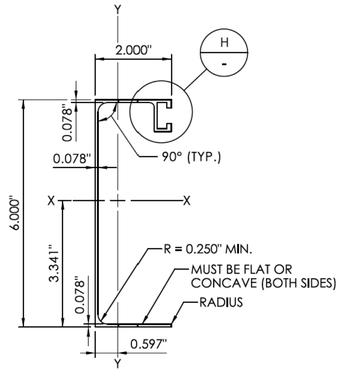


PLAN

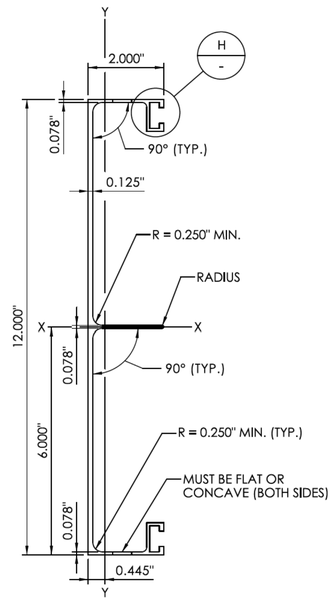


ELEVATION

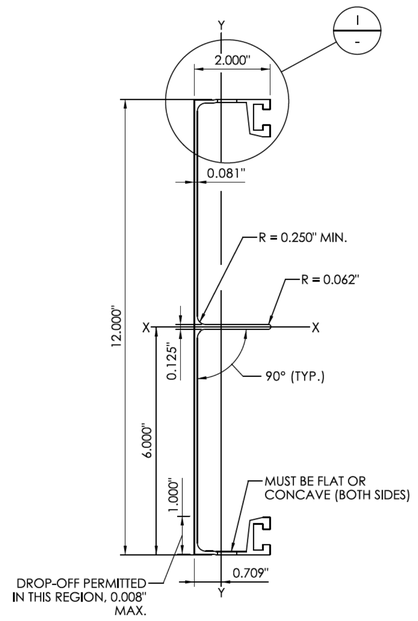
POST CLIP DETAIL (E, EAS-2)
SCALE: Full Size 1 = 1



6" EXTRUDED PANEL (F, EAS-2)
SCALE: 6"=1'-0"

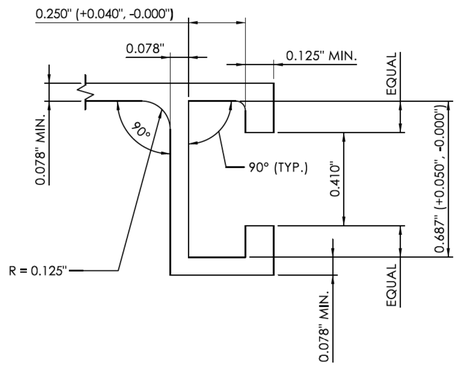


ALTERNATE A

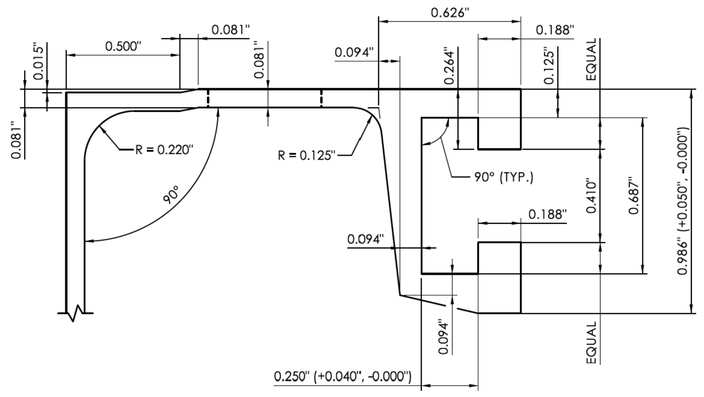


ALTERNATE B

12" EXTRUDED PANEL (G, EAS-2)
SCALE: 6"=1'-0"



DETAIL (H, -)
SCALE: 3:1



DETAIL (I, -)
SCALE: 3:1

NOTES:

THE EXTRUDED PANELS SHALL CONFORM TO THE REQUIREMENTS ASTM B221, ALLOY 6063-T6 AND THE FOLLOWING SECTION PROPERTIES:

SECTION	AREA OF SECTION (in^2)	WT. / FT. (LBS. / FT.)	I_{X-X} (in^4)	I_{Y-Y} (in^4)
6" EXTRUDED PANEL	0.933	1.130	5.023	0.473
12" EXTRUDED PANEL ALTERNATE A	2.237	2.720	36.284	0.941
12" EXTRUDED PANEL ALTERNATE B	2.091	2.540	38.947	1.183

THE PANEL BOLTS SHALL CONFORM TO ASTM A193, CLASS 1, GRADE B8 (TYPE 304). THE NUTS SHALL BE A COMPATIBLE HEX, PREVAILING TORQUE (NYLON INSERT) LOCK NUTS CONFORMING TO ASTM A194, CLASS 1, GRADE B8 (TYPE 304). THE WASHERS SHALL BE A COMPATIBLE, FLAT, CIRCULAR WASHERS CONFORMING TO ASTM A276, TYPE 304, ANNEALED.

THE POST CLIP ASSEMBLY SHALL BE COMPOSED OF A POST CLIP AND A BOLT WITH A NUT AND WASHER. THE POST CLIP SHALL CONFORM TO THE REQUIREMENTS OF ASTM B26, ALLOY 356.0-T6. THE POST BOLT SHALL BE A ⅜" Ø X 1¾" LONG RECTANGULAR HEAD BOLT CONFORMING TO ASTM A193, CLASS 1, GRADE B8 (TYPE 304). THE NUT SHALL BE A COMPATIBLE HEX, PREVAILING TORQUE (NYLON INSERT) LOCK NUT CONFORMING TO ASTM A194, CLASS 1, GRADE B8 (TYPE 304). THE WASHER SHALL BE A COMPATIBLE, FLAT, CIRCULAR WASHER CONFORMING TO ASTM A276, TYPE 304, ANNEALED. THE DIMENSIONS OF THE RECTANGULAR BOLT HEAD SHALL BE SUCH THAT IT WILL FIT INTO THE EXTRUDED PANEL SLOT AND WILL NOT ROTATE WHILE THE NUT IS BEING TURNED.

THE COST OF FURNISHING AND INSTALLING THE EXTRUDED ALUMINUM SIGN AND CROWN PANELS, INCLUDING THE PANEL BOLTS AND POST CLIP ASSEMBLIES, SHALL BE PAID FOR UNDER THE APPLICABLE "SIGN FACE - EXTRUDED ALUMINUM" ITEM.

REVISION DESCRIPTION | DATE | REV.

DESIGNER/DRAFTER: D. GEHRING CHECKED BY: M. KURKER

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0151-0340
PROJECT DESCRIPTION: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP
TOWN(S): WATERBURY
DRAWING TITLE: EXTRUDED ALUMINUM SIGN PANEL MANUFACTURING DETAILS

DRAWING NO. EAS-2
SHEET NO. 07.60

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_GS_0151-0340_07-08_Extruded Aluminum Signs.dgn
PLOTTED DATE: 8/18/2025

	NONE	PRE-EMPTION #1	PRE-EMPTION	MOVEMENT DIAGRAM	PRE-EMPTION #3	PRE-EMPTION #2	
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 CL	GRN CL CL	GRN CL CL
FACE 1	Y	← G ← Y G	G Y R		R R R				
FACE 2	Y	G G G	G Y R		R R R				
FACE 3	Y	R R R	G Y R		R R R				
FACE 4	R	R R R	R R R		G Y R				
# MIN		3 3 0	10 3 0		5 3 0				
MAX		10 5 2	60 5 2		40 5 2				
INTERVALS MIN GRN		5	15		7				
WALK			15		10				
PED CLR			1		1				
VEH EXT			2		2				
MAX 1		5	30		20				
MAX 2		5	30		20				
YELLOW		3	3		3				
RED		0	1		1				
ADD INI									
MAX INT									
TBR									
TTR									
MIN GAP									
MODE		MIN RECALL	MAX RECALL	OFF	NON-LOCK	OFF	OFF	OFF	OFF
INISTART			THIS PHASE						

+YIELD

DETECTORS				PROGRAM			COORDINATION TYPE- CLOSED LOOP										PERMIS PERIOD	SYSTEM O.C.	TECHNICAL NOTES
IDENT	SIZE (WXL)	TURNS	MODE	FUNCTION	TIME	DAYS	CYCLE	PHASE SPLITS %/SEC								OFFSET		Ø SEQ	MASTER	STANDARD OVERLAP SKIP FEATURES APPLY
								Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	SEC	%		W43	PRE-EMPTION TO BE INOPERATIVE DURING
D4	6'X 6'	3	PRESENCE	FLASH	2200-0600	DAILY													ZONE 5	FLASH OPERATION
				MAX 2	FUTURE															TIMINGS SHOWN ARE FOR FREE OPERATION
																				ACTUAL TIMINGS TO BE DETERMINED BY MASTER

ENERGY BY- CITY | METER # - | INTERSECTION #

MAINT. 24hr ☐ Norm ☒ | SERVICE POLE- CLP 6228 | OFFICE RECORD

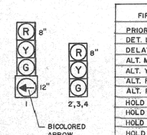
NORMAL kW hr/mo kWh/mo | FLASH kW hr/mo kWh/mo

STC # | SM #

SIG. IN OPERATION

SIGNAL FACES

CIRCULAR RED INDICATIONS TO HAVE LED LAMPS



FIRE PRE-EMPTION

PRIORITY	NO	3
DET. LOCK	YES	Y
DELAY	0	0
ALT. MIN. GRN.	5	5
ALT. YELLOW	NO	N
ALT. RED	NO	N
ALT. PED. CLR.	NO	N
HOLD GREEN	15	15
HOLD YELLOW	3	3
HOLD RED	1	1
HOLD PHASE	2	4
EXIT PHASE	4	2
EXIT CALL	NONE	N

LEGEND

R RED
Y YELLOW
G GREEN
◀R RED ARROW
◀Y YELLOW ARROW
◀G GREEN ARROW
WB WALK/ FL D.W.
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
TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
LOOP DETECTOR
MAGNETIC DETECTOR
SD SYSTEM DETECTOR
OPTICAL DETECTOR
PROPOSED CONTROLLER
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
PROPOSED 1R.M.C.) RIGID METAL CONDUIT
EXISTING 1R.M.C.) RIGID METAL CONDUIT
CABLE CLOSURE
DET. LEADS IN SAW CUT
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
RADIO ANTENNA
AUDIBLE PEDESTRIAN SIGNAL

TOWN SIGNAL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUR. OF ENGINEERING & HWY. OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

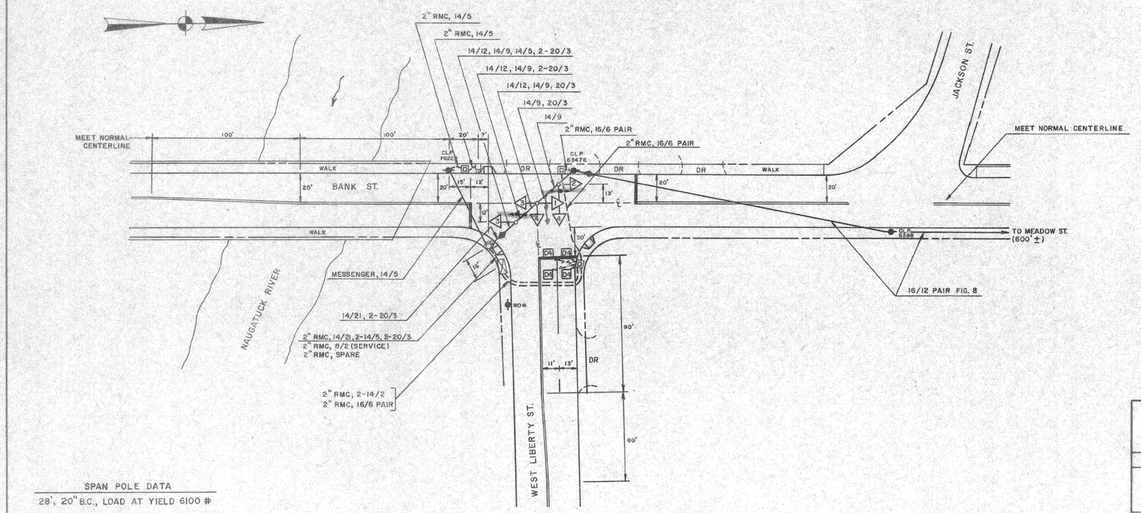
TRAFFIC CONTROL SIGNAL

CITY OF WATERBURY

BANK STREET AT WEST LIBERTY STREET

REV. #	TRAFFIC DATE	ELECTRICAL DATE
ENGINEER		
DRAFTER		
CHECKED BY	BANKAM & MESS ASSOC.	
SUBMITTED BY		
APPROVED BY		
DATE		

REV. # | INTERSECTION #



SPAN POLE DATA
28', 20" B.C., LOAD AT YIELD 6100 #

TOWN SIGNAL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUR. OF ENGINEERING & HWY. OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL LAYOUT

CITY OF WATERBURY
BANKSTREET AT WEST LIBERTY STREET

SCALE 1"=40'

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.							

CONSTRUCTION NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FORM 814A, STANDARD DETAIL SHEETS AND ALL ADDENDA SUBJECT THERETO.
2. STAKE ALL R.O.W. IN VICINITY OF WORK TO BE PERFORMED PRIOR TO EXCAVATION.
3. REPLACE ENTIRE SECTION OF SIDEWALK DAMAGED DUE TO INSTALLATION OF CONDUIT, HANDHOLE OR FOUNDATION.
4. ALL LOOP DETECTORS SHALL BE CENTERED IN TRAVEL LANE 8 FEET APART.
5. INSTALL HANDHOLES APPROXIMATELY 1' BEHIND CURB.
6. INSTALL R.M.C. STAND-OFFS ON ALL UTILITY POLES.
7. CABINET DOOR TO OPEN STREET SIDE.
8. INSTALL ALL FOUNDATIONS IN WALK AT BACK EDGE.
9. OPTICAL DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUSLY BETWEEN EACH DETECTOR AND THE CONTROLLER CABINET.
10. THE PRE-EMPTION IS TO WORK THROUGH THE INTERNAL PRE-EMPTION OF THE TRAFFIC CONTROLLER.
11. OPTICAL DETECTOR LOCATIONS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR AN AUTHORIZED REPRESENTATIVE.

REV. # | INTERSECTION #

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

Acc. 22196 22-2-4 Zone 5/4

FOR INFORMATION ONLY

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK: Michael P. Fuller, No. 24xxx, Licensed Professional Engineer, 60 Weston Street, Hartford, CT 06120

DESIGNER/DRAFTER: CHECKED BY:

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: F.I.O. - BANK STREET AT WEST LIBERTY STREET

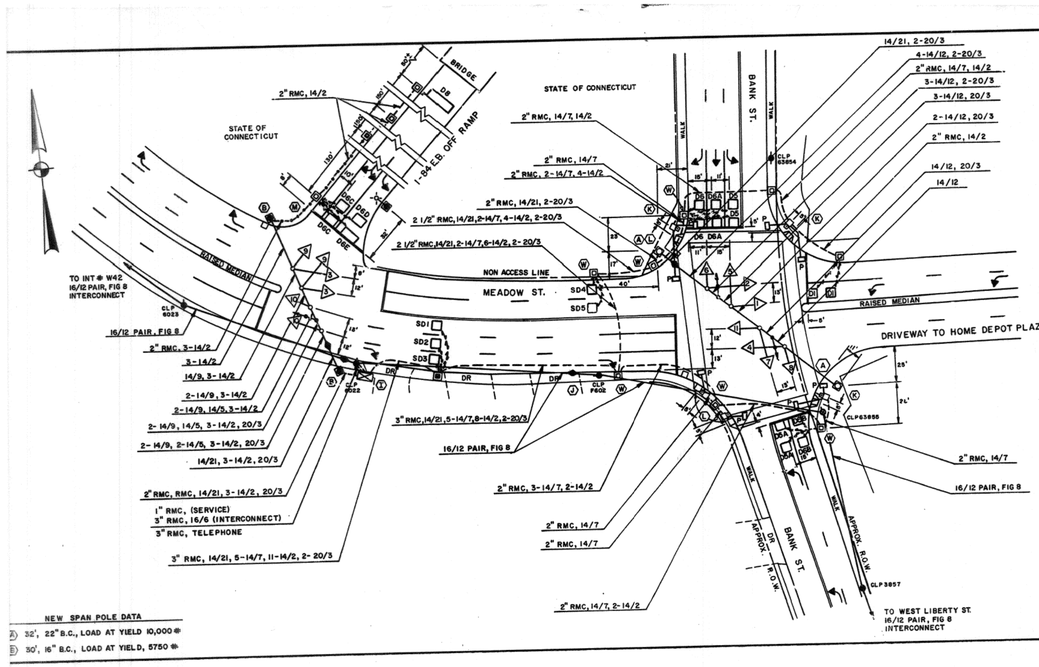
PROJECT NO.: 0151-0340

DRAWING NO.: FIO-01

SHEET NO.: 07.61

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PLOTTED DATE: 8/18/2025


STATE OF CONNECTICUT
2" RMC, 14/2
BRIDGE
D8
I-84 E.B. OFF RAMP
STATE OF CONNECTICUT
2" RMC, 14/7, 14/2
2" RMC, 14/7
2" RMC, 2-14/7, 4-14/2
2" RMC, 14/21, 2-20/3
2 1/2" RMC, 14/21, 2-14/7, 4-14/2, 2-20/3
2 1/2" RMC, 14/21, 2-14/7, 6-14/2, 2-20/3
BANK ST.
14/21, 2-20/3
4-14/12, 2-20/3
2" RMC, 14/7, 14/2
3-14/12, 2-20/3
3-14/12, 20/3
2-14/12, 20/3
2" RMC, 14/2
14/12, 20/3
14/12
NON ACCESS LINE
MEADOW ST.
RAISED MEDIAN
DRIVEWAY TO HOME DEPOT PLAZA
TO INT # W42 16/12 PAIR, FIG 8 INTERCONNECT
16/12 PAIR, FIG 8
2" RMC, 3-14/2
3-14/2
14/9, 3-14/2
2-14/9, 3-14/2
2-14/9, 14/5, 3-14/2
2- 14/9, 14/5, 3-14/2, 20/3
2- 14/9, 2-14/5, 3-14/2, 20/3
14/21, 3-14/2, 20/3
2" RMC, RMC, 14/21, 3-14/2, 20/3
1" RMC, (SERVICE)
3" RMC, 16/6 (INTERCONNECT)
3" RMC, TELEPHONE
3" RMC, 14/21, 5-14/7, 11-14/2, 2-20/3
3" RMC, 14/21, 5-14/7, 8-14/2, 2-20/3
16/12 PAIR, FIG 8
2" RMC, 3-14/7, 2-14/2
2" RMC, 14/7
2" RMC, 14/7
2" RMC, 14/7, 2-14/2
2" RMC, 14/7
16/12 PAIR, FIG 8
APPROX. R.O.W.
APPROX. R.O.W.
BANK ST.
CLP 6023
CLP 6022
CLP 6021
CLP 6020
CLP 6019
CLP 6018
CLP 6017
CLP 6016
CLP 6015
CLP 6014
CLP 6013
CLP 6012
CLP 6011
CLP 6010
CLP 6009
CLP 6008
CLP 6007
CLP 6006
CLP 6005
CLP 6004
CLP

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	WATERBURY	STPO-715(2)	151-269	1997	–	31	47

MOVEMENT DIAGRAM

PRE-EMPT # 1 — D1

PRE-EMPT # 2 — D2

NTOR	PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8		
	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
FACE # 1				G	Y	R				R	R	R												
FACE # 2				R	R	R				G	Y	R												
				+YIELD		POINT																		
MIN.				8	3	1				8	3	1												
MAX.				60	5	3				60	5	3												
INTERVALS: MIN GRN				12						12														
WALK				–																				
PED CLR				–																				
VEH EXT				4						3														
MAX 1				30						30														
MAX 2				40						40														
YELLOW					3						3													
RED						1						1												
ADD INI																								
MAX INI																								
TBR																								
TTR																								
MIN GAP																								
MODE	OFF			MIN. RECALL THIS PHASE			OFF			LOCK			OFF			OFF			OFF			OFF		
INI START																								

FLASHING OPERATION: Y, R

MAINT: 24hr ☐ Norm ☒

DETECTORS

IDENT	SIZE	TURNS	MODE
D1	2(6x10)	2	PRES
D2	2(6x10)	2	PRES
SD1-4	6x6	3	PRES

PROGRAM

FUNCTION	TIME	DAYS
FLASH	FUTURE	
MAX. 2	FUTURE	
PROG. 1	7AM-9AM	M-F
2	3PM-6PM	M-F
3	9AM-3PM	M-F
4	8AM-6PM	SAT-SUN
5	ALL OTHERS	ALL

COORDINATION – CLOSED LOOP

CYCLE SAFETY CRT	OFFSET %/SEC	YIELD PT %	PERMIS PERIOD	FORCE OFF % Ø4	Ø	Ø	SYSTEM LOC MASTER
PROG. 1 100"	84	0	10	50			X-3
2 120"	96	0	10	50			ZONE 5
3 90"	92	0	10	50			V-1
4 80"	89	0	10	50			V-2
5 80"	FREE						V-3
							V-4
							V-5

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY

TIMINGS SHOWN ARE FOR FREE OPERATION ACTUAL TIMINGS TO BE DETERMINED BY MASTER

CNA TO BE ACTIVE WHEN COORDINATED

PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION

ENERGY BY – TOWN	UNMETERED SERVICE
SERVICE POLE # CL&P F6026	

OFFICE RECORD

JOB # SM #

SIGNAL REVISED UNDER PROJECT # 151-269
ADDED PRE-EMPTION, REVISED VEH. EXTENSION FOR PHASE 2 & 4

INTERSECTION # V-2

EMERGENCY VEHICLE PRE-EMPT SETTING	PRE-EMPT 1	PRE-EMPT 2
FUNCTION	1	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	0	0
HOLD GREEN	15	15
HOLD YELLOW	3	3
HOLD RED	1	1
HOLD PHASE	*2	4
EXIT PHASE	4	2
EXIT CALL	NONE	NONE

SIGNAL FACES

R 12" Y G — 1,2

LEGEND

- R RED
- Y YELLOW
- G GREEN
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WB WALK/FL. D.W.
- DW 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
- TRAFFIC SIGNAL FACE
- PEDESTRIAN SIGNAL FACE
- LOOP DETECTOR
- MAGNETIC DETECTOR
- SD SYSTEM DETECTOR
- CONTROLLER
- HANDHOLE
- (R.M.C.) RIGID METAL CONDUIT
- STRAIN INSULATOR
- MANNESTOMETER PROBES
- CABLE CLOSURE
- DET. LEADS IN SAW CUT
- AUXILIARY TERMINATION CABINET
- RADIO ANTENNA
- OPTICAL DET.

TOWN SIGNAL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DIVISION OF TRAFFIC
TRAFFIC CONTROL SIGNAL

CITY OF WATERBURY

MEADOW ST. AT I-84 E.B. ON-RAMP

	TRAFFIC DATE	ELECTRICAL DATE
FIELD SURVEY		
ENGINEER		
DRAFTER	MMI	
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
DATE		

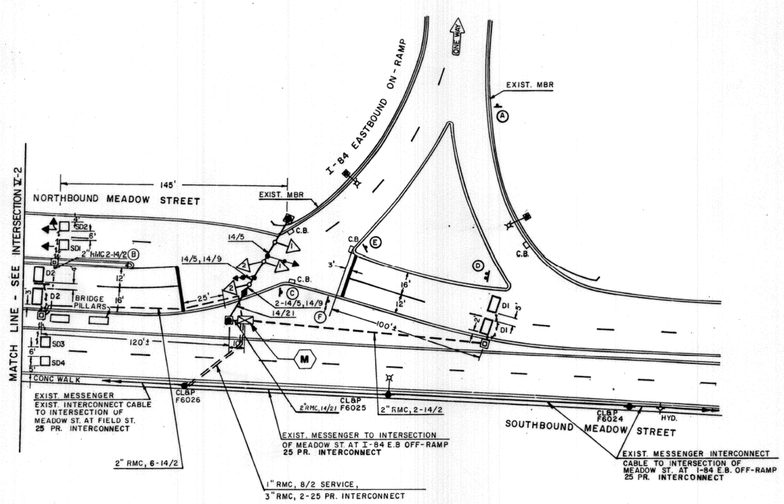
CONSTRUCTION NOTES

THE FOLLOWING NOTES APPLY TO WORK TO BE INCLUDED UNDER STATE PROJECT 151-269; FAP #STPO-7151(2):

1. ALL NEW MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO THE FORM 814A AND AS AMENDED. ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED BELOW.
2. PRIOR TO ANY EXCAVATION (IF SO SPECIFIED), THE CONTRACTOR SHALL STAKE THE R.O.W, AND VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES.
3. ALL NEW CABLING WHERE SPECIFIED SHALL BE INSTALLED WITHOUT SPLICES.
4. SPAN WIRE, IF SPECIFIED, SHALL BE 3/8", 120 DIA. EXTRA STRENGTH 15,400 LBS. MAXIMUM BREAKING STRENGTH.
5. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" PRIOR TO ANY EXCAVATION (1-800-922-4455).
6. ALL WORK TO BE COORDINATED WITH THE CITY OF WATERBURY - TRAFFIC ENGINEERING DIVISION.
7. THE CONTRACTOR WILL SCHEDULE HIS CONSTRUCTION WORK SO THAT POSITIVE TRAFFIC CONTROL (STOP SIGNS, TEMPORARY SIGNALS, ETC.) ARE IN PLACE AND OPERATIONAL AT ALL TIMES.
8. ALL NEW OR MODERNIZED OR MODIFIED TRAFFIC SIGNALS, WHERE SPECIFIED, SHALL BE HUNG SO THAT A VERTICAL CLEARANCE OF 16' (4.88 METERS) TO 17' (5.2 METERS) IS MAINTAINED BETWEEN THE FINAL ROADWAY SURFACE AND THE BOTTOM OF THE SIGNALS.
9. THE STANDARD CITY APPROVED EMERGENCY VEHICLE PRE-EMPT RECEIVER(S) SHALL BE MOUNTED AT THE LOCATION SHOWN AND/OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE LOCATION OF THE DETECTOR(S) SHALL BE APPROVED BY A REPRESENTATIVE OF THE MANUFACTURER PRIOR TO PLACING INTO OPERATION. A SEPARATE 20/3 CABLE SHALL BE INSTALLED (UNSPLICED) DIRECTLY TO THE CONTROLLER CABINET.
10. WHEN AND WHERE SPECIFIED, THE CONTRACTOR SHALL INSTALL THE PAINTED PAVEMENT MARKINGS AND SIGNING AS SHOWN ON THE PLAN AND AS APPROVED BY THE CITY OF WATERBURY.
11. WHERE AND WHEN SPECIFIED, INSTALL RMC STAND-OFFS ON ALL UTILITY POLES.
12. CONTACT BELOW NOTED UTILITY COMPANY REPRESENTATIVES A MINIMUM OF TWO (2) WEEKS PRIOR TO CONSTRUCTION.
13. IF SPECIFIED, INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON SPAN 5'± FROM THE CURBLINE.
14. THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE AND PROPERLY SCHEDULE ALL ELEMENTS OF HIS WORK. ALL WORK SHALL BE STAKED OUT AND APPROVED BY THE CITY PROJECT REPRESENTATIVE, PRIOR TO CONSTRUCTION.
15. ALL TRAFFIC SIGNAL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF WATERBURY AND CONNDOT'S STANDARD INSTALLATION DETAIL SHEETS.
16. THE CONTRACTOR IS ADVISED THAT THE TIMING INFORMATION SHOWN IS SUBJECT TO CHANGE BY THE CITY OF WATERBURY PRIOR TO ACCEPTANCE.
17. ANY SALVAGED EQUIPMENT, WHERE SPECIFIED, SHALL BE DELIVERED TO THE CITY OF WATERBURY.
18. IF DAMAGED DUE TO THE CONTRACTOR'S WORK ON THIS PROJECT, THE CONTRACTOR SHALL REPLACE THE ENTIRE SECTION OF CONCRETE SIDEWALK -- TO THE NEAREST JOINT.
19. ALL EMERGENCY VEHICLE TRAFFIC SIGNAL PRIORITY CONTROL SYSTEM EQUIPMENT FURNISHED AND INSTALLED UNDER THIS PROJECT SHALL BE FULLY COMPATIBLE WITH THE CITY OF WATERBURY EXISTING EMERGENCY VEHICLE PRE-EMPT SYSTEM.
20. UNDER THIS PROJECT, THE CONTRACTOR SHALL SUPPLY, FURNISH, INSTALL, AND MAKE FULLY OPERATIONAL THE FOLLOWING TRAFFIC CONTROL ITEMS:
    - (M) MODIFICATION OF EXISTING CONTROLLER SHALL INCLUDE THE FURNISHING AND INSTALLATION OF A WATERBURY STANDARD PRE-EMPT PANEL AND ASSOCIATED WIRING, IN THE EXISTING CONTROLLER CABINET.

      THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL THE FOLLOWING; PRE-EMPTION ITEMS:
      1 EA. PHASE SELECTOR
      1 EA. PRE-EMPTION SYSTEM CHASSIS
    - ◂▸▸ TWO (2) TYPE "A" OPTICAL DETECTORS, WITH UNSPLICED 20/3 CABLE TO PRE-EMPT PANEL IN CONTROLLER.
    - REVISE VEHICLE EXTENSION FOR PHASES 2 AND 4.

SIGN LEGEND
- (A) EXISTING 31-0215 YIELD
- (B) EXISTING 31-0540
- (C) EXISTING 31-0509 DO NOT ENTER
  31-0512 ONE WAY
- (D) EXISTING 51-0003 I-84 HARTFORD →
- (E) EXISTING 31-0288 NO TURNS
- (F) EXISTING 31-0512 WRONG WAY



CLOSED LOOP DETECTOR CHART		
DETECTOR	LOCAL DETECTOR	SYSTEM DETECTOR
D1	LD1	–
D2	LD2	–
SD1	–	SD1
SD2	–	SD2
SD3	–	SD3
SD4	–	SD4

TOWN SIGNAL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DIVISION OF TRAFFIC
TRAFFIC CONTROL SIGNAL LAYOUT

CITY OF WATERBURY

MEADOW ST. AT I-84 E.B. ON-RAMP

SCALE: 1" = 40'

UTILITY/PROJECT CONTACTS
CITY/POLICE: Sgt. John Hyland, (203) 577-6820
CITY/ENGINEERING: Ernie Phillips PE, (203) 574-6850
SNET: Bob Bouffard, (800) 748-1693
NORTHEAST UTIL.: Jim Harkin, (203) 597-4339
DESIGNER: John P. Thompson PE, (203) 271-1773

OWNERS NAME
CITY OF WATERBURY

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
DIVISION OF TRAFFIC

TRAFFIC CONTROL SIGNAL
V-2

ZONE 5/03

AGR. 22195 22-2-3

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: Richard P. Thompson — No. 22195 — Registered Professional Engineer — State of Connecticut

DESIGNER/DRAFTER: CHECKED BY:

CTDOT — CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: F.I.O. - MEADOW STREET AT I-84 EASTBOUND ON RAMPS

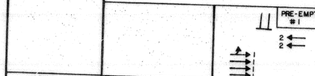
PROJECT NO.: 0151-0340

DRAWING NO.: FIO-03

SHEET NO.: 07.63

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SIGNAL_For_Information_Only.dgn
PLOTTED DATE: 8/18/2025

MOVEMENT DIAGRAM



NTOR		PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8		
		GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
FACE #	1				G	Y	R				R	R	R												
	2				G	Y	R				R	R	R												
	3				R	R	R				G	Y	R												
					← YIELD PT.																				
	MIN				15	3	1				8	3	1												
	MAX				55	5	3				55	5	3												
INTERVALS	MIN GRN				20						12														
	WALK																								
	PED CLR																								
	VEH EXT																								
	MAX 1				25						30														
	MAX 2				35						35														
	YELLOW					3	1					3	2												
	RED																								
	ADD INI																								
	MAX INI																								
	TBR																								
	TTR																								
	MIN GAP																								
MODE		OFF			MAX. RECALL THIS PHASE			OFF			LOCK			OFF			OFF			OFF			OFF		
INI START																									

FLASHING OPERATION: Y Y R

MAINT: 24hr ☐ Norm ☒

DETECTORS

IDENT	SIZE	TURNS	MODE
D1	8x20	2	PRES

PROGRAM

FUNCTION	TIME	DAYS
FLASH	FUTURE	
MAX. 2	FUTURE	
PROG.1	7AM-9AM	M-F
2	3PM-6PM	M-F
3	9AM-3PM	M-F
4	8AM-6PM	SAT-SUN
5	ALL OTHERS	ALL

COORDINATION - CLOSED LOOP

CYCLE SAFETY CRT	OFFSET %/SEC	YIELD PT %	PERMIS PERIOD	FORCE OFF Ø4	FORCE OFF Ø	FORCE OFF % Ø
PROG. 1 100"	0	0	10	53		
2 120"	0	0	10	53		
3 90"	0	0	10	53		
4 80"	0	0	10	53		
5 80"	FREE					

SYSTEM LOC: MASTER W-5; ZONE 5 W-1, W-2, W-3, W-4, W-5

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY

TIMINGS SHOWN ARE FOR FREE OPERATION ACTUAL TIMINGS TO BE DETERMINED BY MASTER

PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION

ENERGY BY - TOWN
SERVICE POLE #CL&P F6027

UNMETERED SERVICE

OFFICE RECORD

JOB # SM #

SIGNAL REVISED UNDER PROJECT # 151-269
ADDED PRE-EMPTION

INTERSECTION # V-1

EMERGENCY VEHICLE PRE-EMPT SETTING

FUNCTION	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	0	0
HOLD GREEN	15	15
HOLD YELLOW	3	3
HOLD RED	1	1
HOLD PHASE	2	4
EXIT PHASE	4	2
EXIT CALL	NONE	NONE

SIGNAL FACES



TOWN SIGNAL

LEGEND

- R RED
- Y YELLOW
- G GREEN
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- W WALK/FL. D.W.
- DW 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
- TRAFFIC SIGNAL FACE
- PEDESTRIAN SIGNAL FACE
- LOOP DETECTOR
- MAGNETIC DETECTOR
- SD SYSTEM DETECTOR
- CONTROLLER
- HANDHOLE
- (R.M.C.) RIGID METAL CONDUIT
- STRAIN INSULATOR
- MAGNETOMETER PROBES
- CABLE CLOSURE
- DET. LEADS IN SAW CUT
- AUXILIARY CABINET
- RADIO ANTENNA
- OPTIONAL DET.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DIVISION OF TRAFFIC
TRAFFIC CONTROL SIGNAL

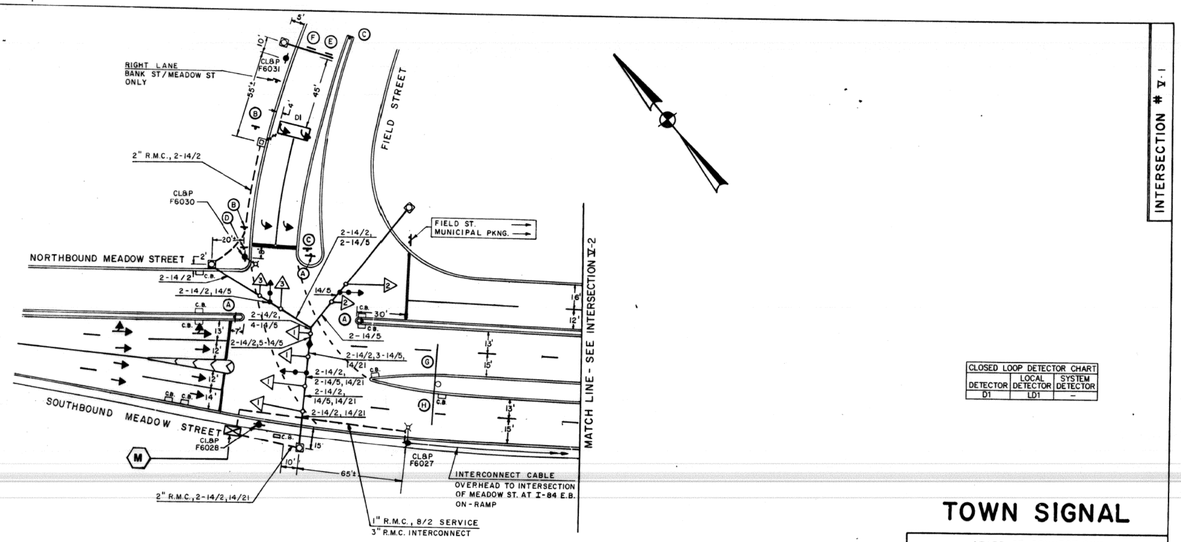
CITY OF WATERBURY

MEADOW ST. AT FIELD ST.

	TRAFFIC DATE	ELECTRICAL DATE
FIELD SURVEY		
ENGINEER		
DRAFTER	MMI	
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
DATE		

SIGN LEGEND

A	EXISTING	31 - 0526	KEEP RIGHT
B	EXIST.	31 - 0503	↰ ↰
C	EXIST.	51 - 0539	I-84 E
D	EXIST.	31 - 0517	NO RIGHT TURN
E	EXIST.	51 - 5232	EAST I-84 ↓
F	EXIST.	SPEC.	MEADOW ST. S.B. ↓
G	EXIST.	SPEC.	84 E HARTFORD ↓
H	EXIST.	SPEC.	MEADOW ST. ↓ BANK ST.



CLOSED LOOP DETECTOR CHART		
DETECTOR	LOCAL DETECTOR	SYSTEM DETECTOR
D1	LD1	–

TOWN SIGNAL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DIVISION OF TRAFFIC
TRAFFIC CONTROL SIGNAL LAYOUT

CITY OF WATERBURY

MEADOW ST. AT FIELD ST.

SCALE: 1" = 40'

UTILITY/PROJECT CONTACTS
CITY/POLICE: Sgt. John Hyland, (203) 577-6820
CITY/ENGINEERING: Ernie Phillips PE, (203) 574-6850
SNET: Bob Bouffard, (800) 748-1693
NORTHEAST UTIL.: Jim Harkin, (203) 597-4339
DESIGNER: John P. Thompson PE, (203) 271-1773

OWNERS NAME
CITY OF WATERBURY

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	WATERBURY	STPO-7151(2)	151-269	1997	–	30	47

FORM TRA-038 REV. 1-85

CONSTRUCTION NOTES

THE FOLLOWING NOTES APPLY TO WORK TO BE INCLUDED UNDER STATE PROJECT 151-269; FAP #STPO-7151(2):

1. ALL NEW MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO THE FORM 814A AND AS AMENDED. ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED BELOW.
2. PRIOR TO ANY EXCAVATION (IF SO SPECIFIED), THE CONTRACTOR SHALL STAKE THE R.O.W, AND VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES.
3. ALL NEW CABLING WHERE SPECIFIED SHALL BE INSTALLED WITHOUT SPLICES.
4. SPAN WIRE, IF SPECIFIED, SHALL BE 3/8", 120 DIA. EXTRA STRENGTH 15,400 LBS. MAXIMUM BREAKING STRENGTH.
5. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" PRIOR TO ANY EXCAVATION (1-800-922-4455).
6. ALL WORK TO BE COORDINATED WITH THE CITY OF WATERBURY - TRAFFIC ENGINEERING DIVISION.
7. THE CONTRACTOR WILL SCHEDULE HIS CONSTRUCTION WORK SO THAT POSITIVE TRAFFIC CONTROL (STOP SIGNS, TEMPORARY SIGNALS, ETC.) ARE IN PLACE AND OPERATIONAL AT ALL TIMES.
8. ALL NEW OR MODERNIZED OR MODIFIED TRAFFIC SIGNALS, WHERE SPECIFIED, SHALL BE HUNG SO THAT A VERTICAL CLEARANCE OF 16' (4.88 METERS) TO 17' (5.2 METERS) IS MAINTAINED BETWEEN THE FINAL ROADWAY SURFACE AND THE BOTTOM OF THE SIGNALS.
9. THE STANDARD CITY APPROVED EMERGENCY VEHICLE PRE-EMPT RECEIVER(S) SHALL BE MOUNTED AT THE LOCATION SHOWN AND/OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE LOCATION OF THE DETECTOR(S) SHALL BE APPROVED BY A REPRESENTATIVE OF THE MANUFACTURER PRIOR TO PLACING INTO OPERATION. A SEPARATE 20/3 CABLE SHALL BE INSTALLED (UNSPLICED) DIRECTLY TO THE CONTROLLER CABINET.
10. WHEN AND WHERE SPECIFIED, THE CONTRACTOR SHALL INSTALL THE PAINTED PAVEMENT MARKINGS AND SIGNING AS SHOWN ON THE PLAN AND AS APPROVED BY THE CITY OF WATERBURY.
11. WHERE AND WHEN SPECIFIED, INSTALL RMC STAND-OFFS ON ALL UTILITY POLES.
12. CONTACT BELOW NOTED UTILITY COMPANY REPRESENTATIVES A MINIMUM OF TWO (2) WEEKS PRIOR TO CONSTRUCTION.
13. IF SPECIFIED, INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON SPAN 5'± FROM THE CURBLINE.
14. THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE AND PROPERLY SCHEDULE ALL ELEMENTS OF HIS WORK. ALL WORK SHALL BE STAKED OUT AND APPROVED BY THE CITY PROJECT REPRESENTATIVE, PRIOR TO CONSTRUCTION.
15. ALL TRAFFIC SIGNAL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF WATERBURY AND CONNDOT'S STANDARD INSTALLATION DETAIL SHEETS.
16. THE CONTRACTOR IS ADVISED THAT THE TIMING INFORMATION SHOWN IS SUBJECT TO CHANGE BY THE CITY OF WATERBURY PRIOR TO ACCEPTANCE.
17. ANY SALVAGED EQUIPMENT, WHERE SPECIFIED, SHALL BE DELIVERED TO THE CITY OF WATERBURY.
18. IF DAMAGED DUE TO THE CONTRACTOR'S WORK ON THIS PROJECT, THE CONTRACTOR SHALL REPLACE THE ENTIRE SECTION OF CONCRETE SIDEWALK -- TO THE NEAREST JOINT.
19. ALL EMERGENCY VEHICLE TRAFFIC SIGNAL PRIORITY CONTROL SYSTEM EQUIPMENT FURNISHED AND INSTALLED UNDER THIS PROJECT SHALL BE FULLY COMPATIBLE WITH THE CITY OF WATERBURY EXISTING EMERGENCY VEHICLE PRE-EMPT SYSTEM.
20. UNDER THIS PROJECT, THE CONTRACTOR SHALL SUPPLY, FURNISH, INSTALL, AND MAKE FULLY OPERATIONAL THE FOLLOWING TRAFFIC CONTROL ITEMS:
    - (M) MODIFICATION OF EXISTING CONTROLLER SHALL INCLUDE THE FURNISHING AND INSTALLATION OF A WATERBURY STANDARD PRE-EMPT PANEL AND ASSOCIATED WIRING, IN THE EXISTING CONTROLLER CABINET.

      THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL THE FOLLOWING; PRE-EMPTION ITEMS:
      1 EA. PHASE SELECTOR
      1 EA. PRE-EMPTION SYSTEM CHASSIS
    - ◂▸▸ THREE (3) TYPE "A" OPTICAL DETECTORS. WITH UNSPLICED 20/3 CABLE TO PRE-EMPT PANEL IN CONTROLLER.

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
DIVISION OF TRAFFIC

TRAFFIC CONTROL SIGNAL
V-1

20 ms
5/01
Acc. 22193
22-2-1

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: Michael J. Fiedler, No. 22193, Registered Professional Engineer, State of Connecticut

DESIGNER/DRAFTER: CHECKED BY:

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: F.I.O. - MEADOW STREET AT FIELD STREET

PROJECT NO.: 0151-0340

DRAWING NO.: FIO-04

SHEET NO.: 07.64

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SIGNAL_For_Information_Only.dgn
PLOTTED DATE: 8/18/2025

MOVEMENT DIAGRAM

		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
NTOR	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
1	Y	G ← ⑩G ↩ ⑫G	G Y R	R R R	G ← Y ⑨ R ⑪	R R R	R R R	R R R	R R R
2	Y	G G G	G Y R	R R R	G Y R	R R R	R R R	R R R	R R R
3	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
4	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	G Y R	R R R	R R R	R R R	R R R	R R R
6	Y	G G G	G ← ⑧Y ⑥R	R R R	R R R	R R R	R R R	R R R	G ← ⑤G ↩ ⑦G
7	Y	G G G	G Y R	R R R	R R R	R R R	R R R	R R R	G G G
8	Y	G Y R	R R R	R R R	R R R	R R R	R R R	R R R	R R R
9	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
10	R	R ⑩R R	R R R	R R R	R R R	R R R	G ← Y R	R R R	R R R
11	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
12	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
P	OFF	DW DW DW	DW DW DW	DW DW DW	DW DW DW	WØ DW DW	DW DW DW	DW DW DW	DW DW DW
MIN./MAX.		15/30 2/5 1/4	20/40 2/5 1/4	25/40 2/5 1/4	20/35 2/5 1/4	10/25 0.1/2 0/3	5/20 2/5 1/4	25/40 2/5 1/4	5/15 2/5 1/4
INTERVALS: MIN GREEN		12	12	12	8	7	10	12	12
WALK						12			
PED CLR									
VEH EXT		5	2	5	5			5	
MAX 1		20	30	30	25		10	30	8
MAX 2		25	35	35	30		15	35	10
YELLOW		3	3	3	3	0.1	3	3	3
RED		2	1	1	1	0	1	1	1
ADD INIT									
MAX INIT									
MODE		LOCK	LOCK	LOCK	NON-LOCK	NON-LOCK	LOCK	LOCK	NON-LOCK
INI START		THIS PHASE							

DETECTORS

IDENT	SIZE	TURNS	MODE
D1	6' x 8'	2	PULSE
D2	6' x 6'	2	PULSE
D3	6' x 6'	2	PULSE
D4,D4A	6' x 6'	2	PRESENCE
D5,D5A	6' x 6'	2	PRESENCE
D6	6' x 6'	2	PULSE
D7	6' x 6'	2	PULSE
D8	6' x 6'	3	PRESENCE
SD1	6' x 6'	3	PRESENCE
SD2	6' x 6'	3	PRESENCE
SD3	6' x 6'	3	PRESENCE
SD4	6' x 6'	3	PRESENCE

PROGRAM

FUNCTION	TIME	DAYS
FLASH	NONE	
MAX 2	FUTURE	
PROG. 1	7AM – 9AM	M–F
PROG. 2	3PM – 6PM	M–F
PROG. 3	9AM – 3PM	M–F
PROG. 4	8AM – 6PM	SAT–SUN
PROG. 5	ALL OTHER	ALL

COORDINATION TYPE – MASTER COMPUTER

CYCLE	PHASE SPLITS ø1	ø2	ø3	ø4	ø5	ø6	%/SEC ø7	ø8	OFFSET SEC	%
100"									FREE	
120"									FREE	
90"									FREE	
80"									FREE	
80"									FREE	

PERMIS PERIOD # SEC

SYSTEM LOG: MASTER CITY HALL, ZONE 1

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY

1. REPLACED BY Y IF PHASE 2 OR 4 IS NOT NEXT
2. REPLACED BY R IF PHASE 2 OR 4 IS NOT NEXT
3. REPLACED BY G← IF PHASE 1 IS NEXT
4. REPLACED BY G← IF PHASE 1 OR 8 IS NEXT
5. REPLACED BY G← IF PHASE 2 IS NEXT
6. YIELD POINT AT PHASE 1, CL1

TIMINGS SHOWN ARE FOR FREE OPERATION

ACTUAL TIMINGS TO BE DETERMINED BY MASTER

CNA ACTIVE WHEN COORDINATED (CALL YIELD POINT PHASE)

ENERGY BY – TOWN METER # –

MAINT 24hr☐ Norm☒ SERVICE POLE ☐UNDERGROUND

INT. #151-236

OFFICE RECORD

REVISION #5

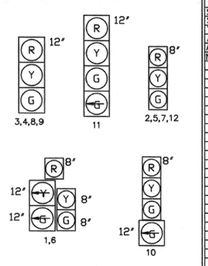
STC# 151-0701-02 SM# N/A

SIGNAL REVISED

TRAFFIC/ ELEC. DESIGN F.A.HESKETH ASSOC.

ADD PHASE 6 FOR COURT HOUSE DRIVE AND REVISE LANE USE CONTROL ON SR847 NB AT FREIGHT STREET.

SIGNAL FACES



TOWN SIGNAL

LEGEND

R RED
Y YELLOW
G GREEN
RED ARROW
YELLOW ARROW
GREEN ARROW
W8 WALK/FL DW
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
PEDESTAL PUSH BUTTON & SIGN
TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
LOOP DETECTOR
MAGNETIC DETECTOR
SD SYSTEM DETECTOR
OPTICAL DETECTOR
PROPOSED CONTROLLER
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
PROPOSED (R.M.C.) RIGID METAL CONDUIT
EXISTING (R.M.C.) RIGID METAL CONDUIT
CABLE CLOSURE
DET LEADS IN SAW CUT
AUXILIARY TERMINATION CABINET
AUDIBLE PEDESTRIAN CABINET

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUR. OF ENGINEERING & HWY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF WATERBURY

S.R. 847 (MEADOW ST.) AT S.R. 847 (GRAND ST.) AND FREIGHT ST.

REV #5	TRAFFIC DATE	ELECTRICAL DATE
ENGINEER		
DRAFTER		
CHECKED BY		
SUBMITTED BY	F.A. HESKETH AND ASSOCIATES, INC.	
APPROVED BY		
DATE		

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ.NO.	PROJ.NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN	WATERBURY	N/A	N/A	1997	SR847		

CONSTRUCTION NOTES

① ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING EXCEPT AS NOTED.

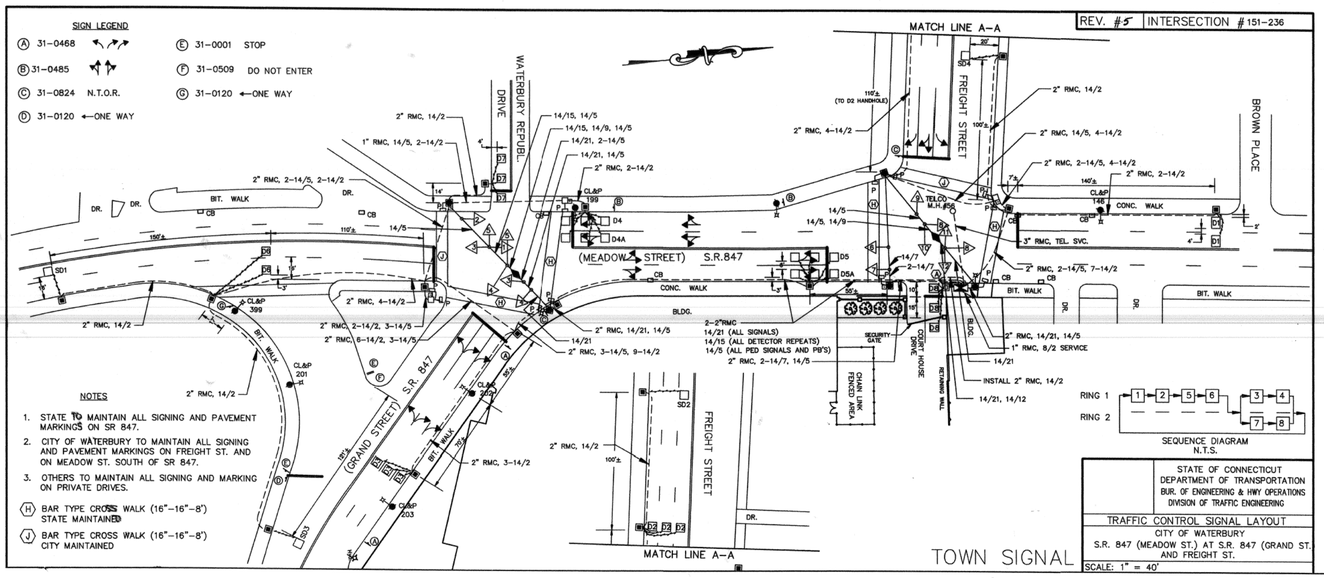
② SIGNAL HEAD 10 IS NEW. MODIFY WESTERN HEAD 8 TO PROVIDE 2 WAY MOUNTING. INSTALL NEW 14/9 TO CABLE CLOSURE.

③ SIGNAL HEADS 11 AND 12 ARE NEW. MODIFY EASTERN HEAD 8 TO PROVIDE 3 WAY MOUNTING. INSTALL NEW 14/12 TO CABLE CLOSURE.

④ HANDHOLE (A) IS NEW. INSTALL HANDHOLE APPROXIMATELY 1' BEHIND CURB OR EDGE OF ROAD. INSTALL 2" RMC AND 14/2 CABLE FROM CONTROLLER TO THIS HANDHOLE.

⑤ LOOP DETECTORS D8 ARE NEW. INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE SPECIFIED. SEGMENTED LOOPS TO BE SPLICED IN SERIES, AND WOUND IN OPPOSITE DIRECTIONS.

REV. #5 | INTERSECTION #151-236



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUR. OF ENGINEERING & HWY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL LAYOUT

CITY OF WATERBURY

S.R. 847 (MEADOW ST.) AT S.R. 847 (GRAND ST. AND FREIGHT ST.

SCALE: 1" = 40'

ELECTRIC UTILITY REPRESENTATIVE:
MR. RICHARD M. GAGNON
CONNECTICUT LIGHT AND POWER CO.
250 FREIGHT ST.
WATERBURY, CT 06702
(203) 597-4392

TELEPHONE COMPANY REPRESENTATIVE:
MR. ROBERT A BOUFFARD
SOUTHERN NEW ENGLAND TELEPHONE CO.
1441 NORTH COLONY ROAD – 1ST FLOOR
MERIDEN, CT 06450
(203) 238-5620

DEVELOPER:
NORTHLAND DEVELOPMENT
2150 WASHINGTON ST.
NEWTON, MA 02162
(617) 630-7217

ENGINEER:
F.A. HESKETH & ASSOCIATES, INC.
101 MILLBROOK COMMON
BLOOMFIELD, CT 06002
(860) 242-7755

BID SET ONLY

THIS PLAN HAS BEEN SUBMITTED TO CONN. D.M.V. FOR APPROVAL AND IS SUBJECT TO REVISIONS AS MAY BE REQUIRED BY THAT AGENCY.

REVISIONS		
1	3-26-97	D.O.T. COMMENTS
2	12-10-97	D.O.T. COMMENTS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

Zone 2 /01

REV.#5 | INTERSECTION # 151-236 | Date Plotted: Thu Dec 11 10:03:08 1997

W:\WATERBAR\WD05012

FOR INFORMATION ONLY

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK:

DESIGNER/DRAFTER: CHECKED BY:

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: F.I.O. - S.R. 847 (GRAND ST/MEADOW ST) AT MEADOW ST, FREIGHT ST, AND PRIVATE DRIVE

PROJECT NO.: 0151-0340

DRAWING NO.: FIO-05

SHEET NO.: 07.65

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SIGNAL_For_Information_Only.dgn

PLOTTED DATE: 8/18/2025

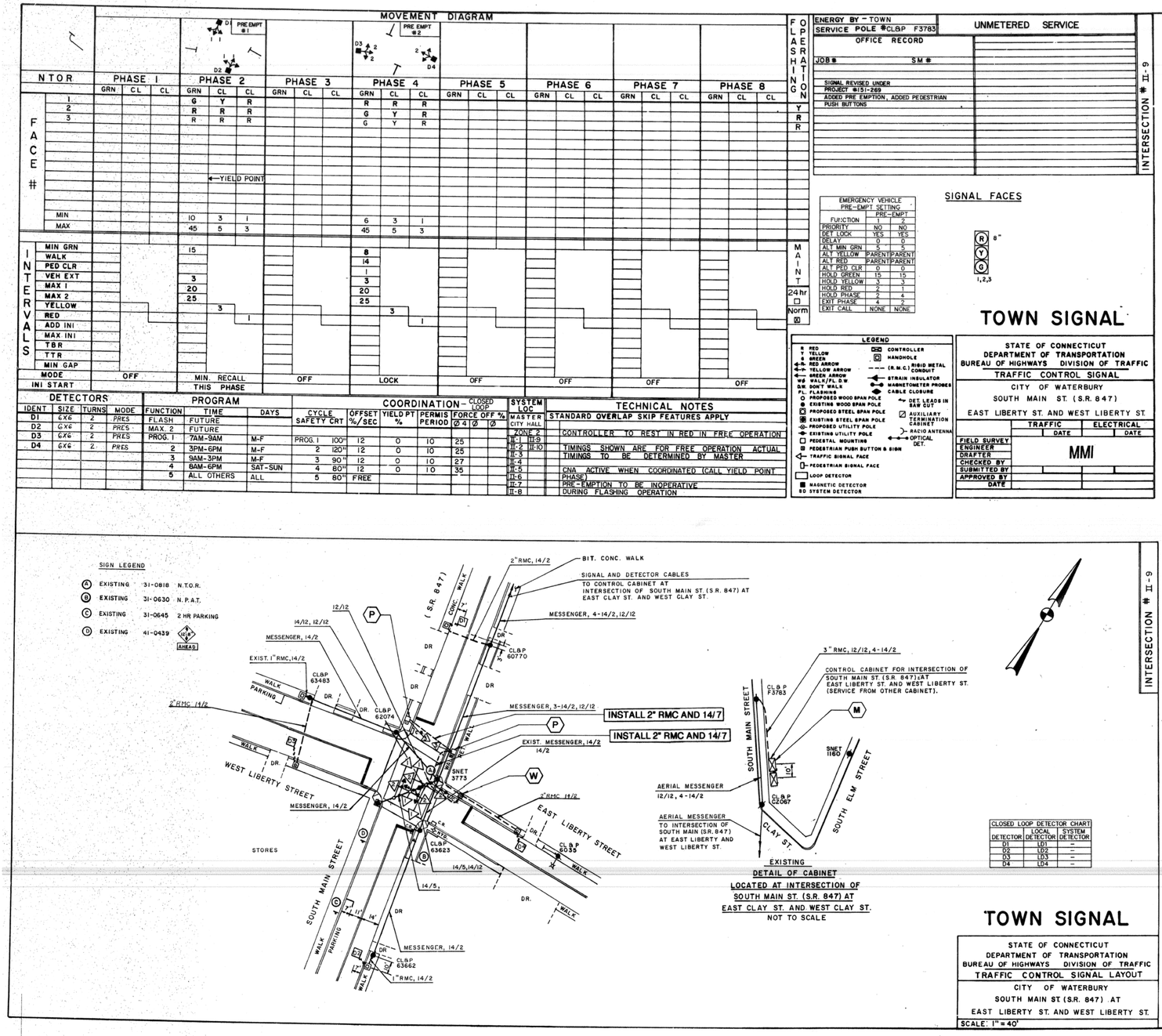
FORM TRA-038 REV. 1-85

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	WATERBURY	STPO-7151(2)	151-269	1997	–	20	47

CONSTRUCTION NOTES

THE FOLLOWING NOTES APPLY TO WORK TO BE INCLUDED UNDER STATE PROJECT 151-269; FAP #STPO-7151(2):

1. ALL NEW MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO THE FORM 814A AND AS AMENDED. ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED BELOW.
2. PRIOR TO ANY EXCAVATION (IF SO SPECIFIED), THE CONTRACTOR SHALL STAKE THE R.O.W, AND VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES.
3. ALL NEW CABLING WHERE SPECIFIED SHALL BE INSTALLED WITHOUT SPLICES.
4. SPAN WIRE, IF SPECIFIED, SHALL BE 3/8", 120 DIA. EXTRA STRENGTH 15,400 LBS. MAXIMUM BREAKING STRENGTH.
5. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" PRIOR TO ANY EXCAVATION (1-800-922-4455).
6. ALL WORK TO BE COORDINATED WITH THE CITY OF WATERBURY - TRAFFIC ENGINEERING DIVISION.
7. THE CONTRACTOR WILL SCHEDULE HIS CONSTRUCTION WORK SO THAT POSITIVE TRAFFIC CONTROL (STOP SIGNS, TEMPORARY SIGNALS, ETC.) ARE IN PLACE AND OPERATIONAL AT ALL TIMES.
8. ALL NEW OR MODERNIZED OR MODIFIED TRAFFIC SIGNALS, WHERE SPECIFIED, SHALL BE HUNG SO THAT A VERTICAL CLEARANCE OF 16' (4.88 METERS) TO 17' (5.2 METERS) IS MAINTAINED BETWEEN THE FINAL ROADWAY SURFACE AND THE BOTTOM OF THE SIGNALS.
9. THE STANDARD CITY APPROVED EMERGENCY VEHICLE PRE-EMPT RECEIVER(S) SHALL BE MOUNTED AT THE LOCATION SHOWN AND/OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE LOCATION OF THE DETECTOR(S) SHALL BE APPROVED BY A REPRESENTATIVE OF THE MANUFACTURER PRIOR TO PLACING INTO OPERATION. A SEPARATE 20/3 CABLE SHALL BE INSTALLED (UNSPLICED) DIRECTLY TO THE CONTROLLER CABINET.
10. WHEN AND WHERE SPECIFIED, THE CONTRACTOR SHALL INSTALL THE PAINTED PAVEMENT MARKINGS AND SIGNING AS SHOWN ON THE PLAN AND AS APPROVED BY THE CITY OF WATERBURY.
11. WHERE AND WHEN SPECIFIED, INSTALL RMC STAND-OFFS ON ALL UTILITY POLES.
12. CONTACT BELOW NOTED UTILITY COMPANY REPRESENTATIVES A MINIMUM OF TWO (2) WEEKS PRIOR TO CONSTRUCTION.
13. IF SPECIFIED, INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON SPAN 5± FROM THE CURBLINE.
14. THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE AND PROPERLY SCHEDULE ALL ELEMENTS OF HIS WORK. ALL WORK SHALL BE STAKED OUT AND APPROVED BY THE CITY PROJECT REPRESENTATIVE, PRIOR TO CONSTRUCTION.
15. ALL TRAFFIC SIGNAL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF WATERBURY AND CONNDOT'S STANDARD INSTALLATION DETAIL SHEETS.
16. THE CONTRACTOR IS ADVISED THAT THE TIMING INFORMATION SHOWN IS SUBJECT TO CHANGE BY THE CITY OF WATERBURY PRIOR TO ACCEPTANCE.
17. ANY SALVAGED EQUIPMENT, WHERE SPECIFIED, SHALL BE DELIVERED TO THE CITY OF WATERBURY.
18. IF DAMAGED DUE TO THE CONTRACTOR'S WORK ON THIS PROJECT, THE CONTRACTOR SHALL REPLACE THE ENTIRE SECTION OF CONCRETE SIDEWALK – TO THE NEAREST JOINT.
19. ALL EMERGENCY VEHICLE TRAFFIC SIGNAL PRIORITY CONTROL SYSTEM EQUIPMENT FURNISHED AND INSTALLED UNDER THIS PROJECT SHALL BE FULLY COMPATIBLE WITH THE CITY OF WATERBURY EXISTING EMERGENCY VEHICLE PRE-EMPT SYSTEM.
20. UNDER THIS PROJECT, THE CONTRACTOR SHALL SUPPLY, FURNISH, INSTALL, AND MAKE FULLY OPERATIONAL THE FOLLOWING TRAFFIC CONTROL ITEMS:
    - (M) MODIFICATION OF EXISTING CONTROLLER SHALL INCLUDE THE FURNISHING AND INSTALLATION OF A WATERBURY STANDARD PRE-EMPT PANEL AND ASSOCIATED WIRING, IN THE EXISTING CONTROLLER CABINET.
    - THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL THE FOLLOWING PRE-EMPTION ITEMS:
      1 EA. PHASE SELECTORS
      1 EA. PRE-EMPTION SYSTEM CHASSIS
    - ⟷ FOUR (4) TYPE "A" OPTICAL DETECTORS, WITH UNSPLICED 20/3 CABLE TO PRE-EMPT PANEL IN CONTROLLER.
    - (P) INSTALL 8' PEDESTALS, PEDESTAL FOUNDATION, PEDESTRIAN PUSH BUTTON AND SIGNAL HEADS No. 3 ⊠ 8". INSTALL 2–14/7 BACK TO CONTROLLER AT INTERSECTION II–8 SOUTH MAIN STREET AND CLAY STREET.
    - (W) INSTALL TYPE 1 HANDHOLE. DISCONNECT 14/2 FROM LOOP LEADS TO DETECTOR D4. REMOVE 14/2 BACK TO BASE OF UTILITY POLE SNET 3773. DISCONNECT 2" RMC AT NEAREST COUPLING UNDER THE BITUMINOUS SIDEWALK TO NEW HANDHOLE. CUT CONDUIT TO FIT INTO HANDHOLE. INSTALL HANDHOLE, REINSTALL EXISTING 14/2 CABLE. RECONNECT 14/2 TO LOOP LEADS USING TYPICAL CONNDOT JUNCTION BOX SPLICE.



ENERGY BY – TOWN	UNMETERED SERVICE
SERVICE POLE #CL&P F3783	
OFFICE RECORD	
JOB # SM #	
SIGNAL REVISED UNDER PROJECT #151-269	
ADDED PRE EMPTION, ADDED PEDESTRIAN PUSH BUTTONS	

INTERSECTION # II-9

EMERGENCY VEHICLE PRE-EMPT SETTING

FUNCTION	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	0	0
HOLD GREEN	15	15
HOLD YELLOW	3	3
HOLD RED	2	1
HOLD PHASE	2	4
EXIT PHASE	4	2
EXIT CALL	NONE	NONE

SIGNAL FACES

TOWN SIGNAL

LEGEND

- R RED
- Y YELLOW
- G GREEN
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/PED. SIGNAL
- 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
- TRAFFIC SIGNAL FACE
- PEDESTRIAN SIGNAL FACE
- LOOP DETECTOR
- MAGNETIC DETECTOR
- SD SYSTEM DETECTOR
- CONTROLLER
- HANDHOLE
- RIGID METAL CONDUIT (R.M.C.)
- STRAIN INSULATOR
- MAGNETOMETER PROBES
- CABLE CLOSURE
- SET LEADS IN SAW CUT
- AUXILIARY TERMINATION CABINET
- RADIO ANTENNA
- OPTICAL DET.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DIVISION OF TRAFFIC
TRAFFIC CONTROL SIGNAL
CITY OF WATERBURY
SOUTH MAIN ST. (S.R. 847)
EAST LIBERTY ST. AND WEST LIBERTY ST.

	TRAFFIC DATE	ELECTRICAL DATE
FIELD SURVEY		
ENGINEER	MMI	
DRAFTER		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
DATE		

CLOSED LOOP DETECTOR CHART		
DETECTOR	LOCAL DETECTOR	SYSTEM DETECTOR
D1	LD1	–
D2	LD2	–
D3	LD3	–
D4	LD4	–

TOWN SIGNAL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DIVISION OF TRAFFIC
TRAFFIC CONTROL SIGNAL LAYOUT
CITY OF WATERBURY
SOUTH MAIN ST (S.R. 847) AT
EAST LIBERTY ST. AND WEST LIBERTY ST.
SCALE: 1"=40'

UTILITY/PROJECT CONTACTS
CITY/POLICE: Sgt. John Hyland, (203) 577-6820
CITY/ENGINEERING: Ernie Phillips PE, (203) 574-6850
SNET: Bob Bouffard, (800) 748-1693
NORTHEAST UTIL.: Jim Harkin, (203) 597-4339
DESIGNER: John P. Thompson PE, (203) 271-1773

OWNERS NAME
CITY OF WATERBURY

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
DIVISION OF TRAFFIC

TRAFFIC CONTROL SIGNAL
II-9
zone 2 105

Acc. 22163 22-1-18

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: Richard D'Amico, 08 Connecticut Professional Engineer, License #21 08/18/2025

DESIGNER/DRAFTER: CHECKED BY:

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: F.I.O. - S.R. 847 (SOUTH MAIN STREET) AT WEST LIBERTY STREET AND EAST LIBERTY STREET

PROJECT NO.: 0151-0340

DRAWING NO.: FIO-06

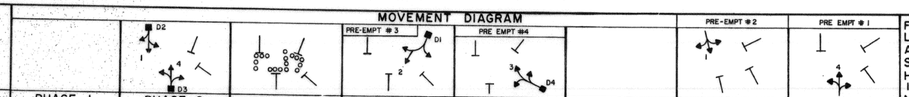
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PLOTTED DATE: 8/18/2025

FORM TRA-035 REV. 1-85

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	WATERBURY	STPO-7151(2)	151-269	1997	-	19	47

MOVEMENT DIAGRAM



FACE #		PHASE 1	PHASE 2 GRN	PHASE 2 CL	PHASE 2 CL	PHASE 3 GRN	PHASE 3 CL	PHASE 3 CL	PHASE 4 GRN	PHASE 4 CL	PHASE 4 CL	PHASE 5 GRN	PHASE 5 CL	PHASE 5 CL	PHASE 6 GRN	PHASE 6 CL	PHASE 6 CL	PHASE 7 GRN	PHASE 7 CL	PHASE 7 CL	PHASE 8 GRN	PHASE 8 CL	PHASE 8 CL
NTOR																							
	1		G	Y	R	R	R	R	R	R	R	R	R	R				G	Y	R	R	R	R
	2		R	R	R	R	R	R	G	Y	R	R	R	R				R	R	R	R	R	R
	3		R	R	R	R	R	R	R	R	R	G	Y	R				R	R	R	R	R	R
	4		G	Y	R	R	R	R	R	R	R	R	R	R				R	R	R	G	Y	R
	P		← DW →			W.W.	← DW →											← DW →					OFF
				← YIELD POINT																			
	MIN		8	3	1	7	0.1	0	8	3	1	8	3	1				10	3	1	10	3	1
	MAX		55	5	5	25	1	1	55	5	4	45	5	3				25	5	3	25	5	3

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN		12		12	12		15	15
WALK		11	7					
PED CLR		1	14					
VEH EXT		3		3	3			
MAX 1		30		30	17		15	15
MAX 2		35		35	25		15	15
YELLOW		3	0.1	3	4		3	3
RED		5	0	4	3		1	1
ADD INI								
MAX INI								
TBR								
TTR								
MIN GAP								
MODE	OFF	MIN. RECALL	NON-LOCK	LOCK	NON-LOCK	OFF	ON/OMIT	ON/OMIT
INI START		THIS PHASE						

FLASHING OPERATION: Y, R, R, R, OFF

MAINT: 24hr ☐ Norm ☒

ENERGY BY - TOWN	UNMETERED SERVICE
SERVICE POLE #CL&P F3783	
OFFICE RECORD	
JOB # SM #	
SIGNAL REVISED UNDER PROJECT # 151-269 - INSTALLED NEW CONTROLLER ADDED PRE EMPTION, REPLACED DETECTORS D2 & D3, ADDED DETECTOR D4	

INTERSECTION # II-8

SIGNAL FACES



EMERGENCY VEHICLE PRE-EMPT SETTING

FUNCTION	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	14	14	14	14
HOLD GREEN	15	15	15	15
HOLD YELLOW	3	3	3	4
HOLD RED	1	1	4	3
HOLD PHASE	8	7	4	5
EXIT PHASE	2	2	2	2
EXIT CALL	NONE	NONE	NONE	NONE

TOWN SIGNAL

LEGEND

- R RED
- Y YELLOW
- G GREEN
- ←R, ←Y, ←G RED ARROW, YELLOW ARROW, GREEN ARROW
- W WALK/FL. D.W.
- DW 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
- TRAFFIC SIGNAL FACE
- PEDESTRIAN SIGNAL FACE
- LOOP DETECTOR
- MAGNETIC DETECTOR
- SD SYSTEM DETECTOR
- CONTROLLER
- HANDHOLE
- (R.M.C.) RIBID METAL CONDUIT
- STRAIN INSULATOR
- MAGNETOMETER PROBES
- CABLE CLOSURE
- DET LEADS IN SAW CUT
- AUXILIARY TERMINATION CABINET
- RACIO ANTENNA
- OPTICAL DET.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DIVISION OF TRAFFIC
TRAFFIC CONTROL SIGNAL
CITY OF WATERBURY
SOUTH MAIN ST. (S.R.847) AT SOUTH ELM ST, EAST CLAY ST. AND WEST CLAY ST.

	TRAFFIC DATE	ELECTRICAL DATE
FIELD SURVEY		
ENGINEER	MMI	
DRAFTER		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
DATE		

DETECTORS

IDENT	SIZE	TURNS	MODE
D1	6X6	2	PULSE
D2	6X10	2	PRES
D3	6X10	2	PRES
D4	6X6	4	PRES

PROGRAM

	FUNCTION	TIME	DAYS
	FLASH	FUTURE	
	MAX. 2	FUTURE	
	PROG. 1	7AM-9AM	M-F
2		3PM-6PM	M-F
3		9AM-3PM	M-F
4		6AM-6PM	SAT-SUN
5		ALL OTHERS	ALL

COORDINATION - CLOSED LOOP

	CYCLE SAFETY CRT	OFFSET %/SEC	YIELD PT %	PERMIS PERIOD	FORCE OFF % Ø4	Ø1	Ø
PROG. 1	100"	94	0	10	62		
2	120"	94	0	10	62		
3	90"	94	0	10	62		
4	80"	94	0	10	62		
5	80"	FREE					

SYSTEM LOC	
MASTER	CITY HALL
ZONE 2	
II-1	II-9
II-2	II-10
II-3	
II-4	
II-5	
II-6	
II-7	
II-8	

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY

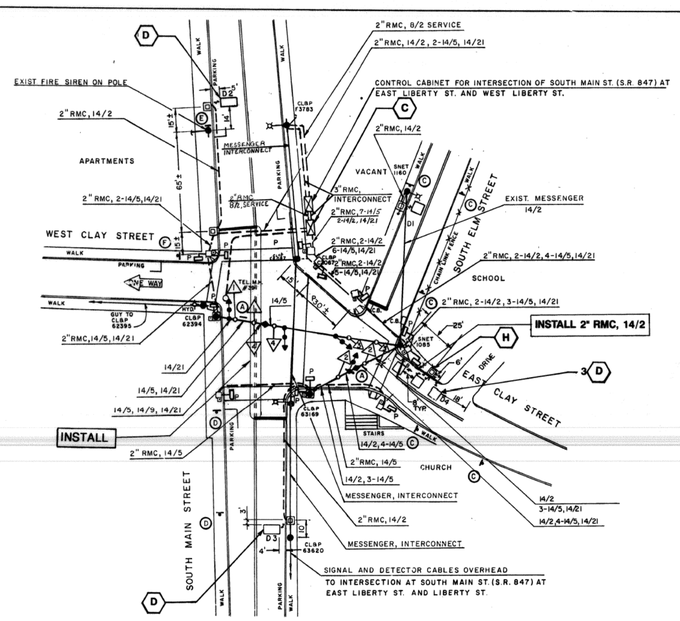
TIMINGS SHOWN ARE FOR FREE OPERATION. ACTUAL TIMINGS TO BE DETERMINED BY MASTER

CNA ACTIVE WHEN COORDINATED (CALL YIELD POINT PHASE

PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.

SIGN LEGEND

- (A) EXISTING 31 - 0818 NO TURN ON RED
- (B) EXISTING 31 - 0088 ONE WAY
- (C) EXISTING 31 - 0630 N. P.A.T.
- (D) EXISTING 31 - 0645 2 HR. PARKING
- (E) EXISTING SPEC. NO PARKING BEYOND
- (F) EXISTING 31 - 0613 NO PARKING HERE TO CORNER



CLOSED LOOP DETECTOR CHART		
DETECTOR	LOCAL DETECTOR	SYSTEM DETECTOR
D1	LD1	-
D2	LD2	-
D3	LD3	-
D4	LD4	-

TOWN SIGNAL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DIVISION OF TRAFFIC
TRAFFIC CONTROL SIGNAL LAYOUT
CITY OF WATERBURY
SOUTH MAIN ST. (SR. 847) AT SOUTH ELM ST, EAST CLAY ST. AND WEST CLAY ST.
SCALE: 1" = 40'

CONSTRUCTION NOTES

THE FOLLOWING NOTES APPLY TO WORK TO BE INCLUDED UNDER STATE PROJECT 151-269; FAP #STPO-7151(2):

1. ALL NEW MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO THE FORM 814A AND AS AMENDED. ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED BELOW.
2. PRIOR TO ANY EXCAVATION (IF SO SPECIFIED), THE CONTRACTOR SHALL STAKE THE R.O.W, AND VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES.
3. ALL NEW CABLING WHERE SPECIFIED SHALL BE INSTALLED WITHOUT SPLICES.
4. SPAN WIRE, IF SPECIFIED, SHALL BE 3/8", 120 DIA. EXTRA STRENGTH 15,400 LBS. MAXIMUM BREAKING STRENGTH.
5. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" PRIOR TO ANY EXCAVATION (1-800-922-4455).
6. ALL WORK TO BE COORDINATED WITH THE CITY OF WATERBURY - TRAFFIC ENGINEERING DIVISION.
7. THE CONTRACTOR WILL SCHEDULE HIS CONSTRUCTION WORK SO THAT POSITIVE TRAFFIC CONTROL (STOP SIGNS, TEMPORARY SIGNALS, ETC.) ARE IN PLACE AND OPERATIONAL AT ALL TIMES.
8. ALL NEW OR MODERNIZED OR MODIFIED TRAFFIC SIGNALS, WHERE SPECIFIED, SHALL BE HUNG SO THAT A VERTICAL CLEARANCE OF 16' (4.88 METERS) TO 17' (5.2 METERS) IS MAINTAINED BETWEEN THE FINAL ROADWAY SURFACE AND THE BOTTOM OF THE SIGNALS.
9. THE STANDARD CITY APPROVED EMERGENCY VEHICLE PRE-EMPT RECEIVER(S) SHALL BE MOUNTED AT THE LOCATION SHOWN AND/OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE LOCATION OF THE DETECTOR(S) SHALL BE APPROVED BY A REPRESENTATIVE OF THE MANUFACTURER PRIOR TO PLACING INTO OPERATION. A SEPARATE 20/3 CABLE SHALL BE INSTALLED (UNSPLICED) DIRECTLY TO THE CONTROLLER CABINET.
10. WHEN AND WHERE SPECIFIED, THE CONTRACTOR SHALL INSTALL THE PAINTED PAVEMENT MARKINGS AND SIGNING AS SHOWN ON THE PLAN AND AS APPROVED BY THE CITY OF WATERBURY.
11. WHERE AND WHEN SPECIFIED, INSTALL RMC STAND-OFFS ON ALL UTILITY POLES.
12. CONTACT BELOW NOTED UTILITY COMPANY REPRESENTATIVES A MINIMUM OF TWO (2) WEEKS PRIOR TO CONSTRUCTION.
13. IF SPECIFIED, INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON SPAN 5'± FROM THE CURBLINE.
14. THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE AND PROPERLY SCHEDULE ALL ELEMENTS OF HIS WORK. ALL WORK SHALL BE STAKED OUT AND APPROVED BY THE CITY PROJECT REPRESENTATIVE, PRIOR TO CONSTRUCTION.
15. ALL TRAFFIC SIGNAL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF WATERBURY AND CONNDOT'S STANDARD INSTALLATION DETAIL SHEETS.
16. THE CONTRACTOR IS ADVISED THAT THE TIMING INFORMATION SHOWN IS SUBJECT TO CHANGE BY THE CITY OF WATERBURY PRIOR TO ACCEPTANCE.
17. ANY SALVAGED EQUIPMENT, WHERE SPECIFIED, SHALL BE DELIVERED TO THE CITY OF WATERBURY.
18. IF DAMAGED DUE TO THE CONTRACTOR'S WORK ON THIS PROJECT, THE CONTRACTOR SHALL REPLACE THE ENTIRE SECTION OF CONCRETE SIDEWALK -- TO THE NEAREST JOINT.
19. ALL EMERGENCY VEHICLE TRAFFIC SIGNAL PRIORITY CONTROL SYSTEM EQUIPMENT FURNISHED AND INSTALLED UNDER THIS PROJECT SHALL BE FULLY COMPATIBLE WITH THE CITY OF WATERBURY EXISTING EMERGENCY VEHICLE PRE-EMPT SYSTEM.
20. UNDER THIS PROJECT, THE CONTRACTOR SHALL SUPPLY, FURNISH, INSTALL, AND MAKE FULLY OPERATIONAL THE FOLLOWING TRAFFIC CONTROL ITEMS:
    - (C) NEW 8 PEEK-TRANSYT SERIES 3000 CONTROLLER WITH THE PHASING AND TIMINGS SHOWN ON THE PLANS, IN NEW EXTENDED TYPE "B" CONTROLLER CABINET (58"H x 36"W x 17"D) ON EXISTING CONTROLLER FOUNDATION. CONTROLLER CABINET DOOR TO OPEN FIELD SIDE WHEREVER POSSIBLE.
    - THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL THE FOLLOWING PRE-EMPTION ITEMS:
      2 EA. PHASE SELECTORS
      1 EA. PRE-EMPTION SYSTEM CHASSIS
    - ←●→ FOUR (4) TYPE "A" OPTICAL DETECTORS, WITH UNSPLICED 20/3 CABLE TO PRE-EMPT PANEL IN CONTROLLER.
    - (D) INSTALL D2, D3 AND D4 LOOP DETECTORS CENTERED IN THE LANE. SPLICE D4 SEGMENTS IN SERIES. SPLICE D2 AND D3 TO EXISTING 14/2CABLE USING TYPICAL CONNDOT JUNCTION BOX SPLICE. INSTALL NEW LOOP AMPLIFIER.
    - (H) INSTALL CONCRETE HANDHOLE (TYPE II) WITH CAST IRON COVER, 2" RMC TO FOUNDATION AND 14/2 TO CONTROLLER. MODIFY PEDESTAL FOUNDATION TO INSTALL 2"RMC SWEEP.
    - REVISE PAVEMENT MARKINGS AS SHOWN ON PLANS.

UTILITY/PROJECT CONTACTS
CITY/POLICE: Sgt. John Hyland, (203) 577-6820
CITY/ENGINEERING: Ernie Phillips PE, (203) 574-6850
SNET: Bob Boufford, (800) 748-1693
NORTHEAST UTIL.: Jim Harkin, (203) 597-4339
DESIGNER: John P. Thompson PE, (203) 271-1773

OWNERS NAME
CITY OF WATERBURY

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
DIVISION OF TRAFFIC

TRAFFIC CONTROL SIGNAL
II-8

Acc. 22162 22-1-17 Zone 2 /04

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: Robert P. Fuller, 84 Comanche, Old Saybrook Point, Old Saybrook, Connecticut 06475

DESIGNER/DRAFTER: CHECKED BY:

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: F.I.O. - S.R. 847 (SOUTH MAIN ST) AT SOUTH ELM ST, EAST CLAY ST, AND WEST CLAY ST

PROJECT NO.: 0151-0340

DRAWING NO.: FIO-07

SHEET NO.: 07.67

LASTED SAVED BY: sseperack FILE NAME: \\blcompanies.com\dfs\proj\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SIGNAL_For_Information_Only.dgn

PLOTTED DATE: 8/18/2025

	PRE-EMPT 1	PRE-EMPT 2	MOVEMENT DIAGRAM	PRE-EMPT 3/4					

NTOR	PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8			FLASHING OPERATION
	GRN	CL.	CL	GRN	CL.	CL	GRN	CL.	CL	GRN	CL.	CL	GRN	CL.	CL	GRN	CL.	CL	GRN	CL.	CL	GRN	CL.	CL	
FACE # 1	G	G	G	G	Y①	R①				R	R	R	R	R	R	R	R	R	R	R	R				Y
2	G	G	G	G	Y①	R①				R	R	R	R	R	R	R	R	R	R	R	R				Y
3	R	R	R	G	Y	R				R	R	R	R	R	R	R	R	R	R	R	R				Y
4	R	R	R	R	R	R				R	R	R	G	G	G	G	R	R	R	R	R				R
5	G	G	G	G	G	G				G	G	G	G	Y	R	R	R	R	R	R	R				R
6	R	R	R	R	R	R				R	R	R	R	R	R	G	Y	R	R	R	R				R
P	DW	DW	DW	DW	DW	DW				W§	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW				
				◄ YIELD POINT																					
MIN	5	3	1	10	3	1				4	3	0	5	3	1	5	3	1	5	3	1				
MAX	20	6	4	45	6	4				25	6	1	25	6	4	25	6	4	25	6	4				

INTERVALS	PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8		
MIN GRN	6			15						7			8			8			6					
WALK										14														
PED CLR											CD PED. SIGNAL													
VEH EXT	2			2									2			2			2					
MAX 1	10			30									20			20			7					
MAX 2	10			35									20			20			7					
YELLOW		3.2			3.2						4.0			3.2			3.2			3.2				
RED			1.7			1.7						0.1			1.0			1.0			1.0			
ADD INI																								
MAX INI																								
TBR																								
TIR																								
MIN GAP																								
MODE	NON-LOCK			MIN. RECALL			OFF			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			OFF		
INI START				THIS PHASE																				

MAINT
24hr ☐
Norm ☒

DETECTORS

IDENT	SIZE (WXL)	TURNS/TYPE	MODE	
QD1,QD1A	6' X 16'	4	VIDEO-360	30" PRESENCE
D1	6' X 50'	VIDEO-360	PRESENCE	
D2	6' X 50'	VIDEO-360	PRESENCE	
D3	6' X 50'	VIDEO-360	PRESENCE	
D4A-C	6' X 50'	VIDEO-360	PRESENCE	
D5A,D5B	6' X 50'	VIDEO-360	PRESENCE	
D6A,D6B	6' X 50'	VIDEO-360	PRESENCE	
SD1	6' X 6'	VIDEO-360	PRESENCE	

PROGRAM

FUNCTION	TIME	DAYS
FLASH	NONE	
MAX 1	0600-0900	M-F
MAX 2	1500-1900	M-F

COORDINATION — NONE

CYCLE SAFETY CRT	OFFSET %/SEC	YELD PT %	PERMIS PERIOD	FORCE OFF %Ø5	FORCE OFF %Ø6

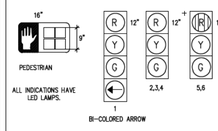
SYSTEM LOC

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
PHASE 7 ALWAYS FOLLOWS PHASE 6.
PHASE 2 ON TO OMIT PHASE 1.
D1 TO CALL PHASE 1 AND PHASE 2.
D7A, D7B, D7C TO CALL PHASE 5 AND 7.
① REPLACED BY G IF PHASE 1 IS NEXT
② WHEN QUEUE DETECTOR IS OCCUPIED FOR MORE THAN 10 SEC.
PREEMPT TO PHASE # 5 (PRE-EMPTION 4)
SET QUEUE DETECTOR DURATION TIME TO 60 SECONDS.
PRE-EMPTION LOCKOUT TIME TO RESTRICT MULTIPLE
PRE-EMPTIONS WITHIN 60 SECONDS.

ENERGY BY– TOWN	NORMAL 1.393 KW 730hr/mo=1017 kwh/mo	INTERSECTION #151-195 W30	
SERVICE POLE– CL&P 8272	FLASH KW hr/mo= kwh/mo		
JOB #	SM #	TIR #	
		SIGNAL REVISED:	
		STATE PROJECT #151-312:	
		INSTALLED VIDEO DETECTION, EMERGENCY PRE-EMPTION,	
		RAMP QUEUE LOOP DETECTION,	
		NEW CONTROLLER AND CABINET. REVISED TRAFFIC	
		SIGNAL PHASING AND TIMING.	

SIGNAL FACES



+LOUVERED RED

TOWN SIGNAL

LEGEND

R	RED		PROPOSED CONTROLLER
Y	YELLOW		EXISTING CONTROLLER
G	GREEN		PROPOSED HANDHOLE
◄R	RED ARROW		EXISTING HANDHOLE
◄Y	YELLOW ARROW		PROPOSED METAL CONDUIT
◄G	GREEN ARROW		EXISTING METAL CONDUIT
W§	WALK/ FL. D.W.		PROPOSED U.G. RIGID CONDUIT
D.W.	DON'T WALK		EXISTING U.G. RIGID CONDUIT
FL	FLASHING		CABLE CLOSURE
	PROPOSED WOOD SPAN POLE		DET. LEADS IN SAW CUT
	EXISTING WOOD SPAN POLE		AUXILIARY TERMINATION CABINET
	PROPOSED STEEL SPAN POLE	CATS	VIDEO CAMERA CABLE
	EXISTING STEEL SPAN POLE		AUDIBLE PEDESTRIAN SIGNAL
	PROPOSED UTILITY POLE		VIDEO DETECTOR
	EXISTING UTILITY POLE		
	PEDESTAL MOUNTING		
	PEDESTRIAN PUSH BUTTON & SIGN		
	TRAFFIC SIGNAL FACE		
	PEDESTRIAN SIGNAL FACE		
	LOOP DETECTOR		
	VIDEO DETECTION ZONE		
SD	SYSTEM DETECTOR		
	OPTICAL DETECTOR		

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUR. OF ENGINEERING & HWY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF WATERBURY

SOUTH MAIN S (ROUTE 847) AT McMAHON ST. AND MARKET SQUARE,

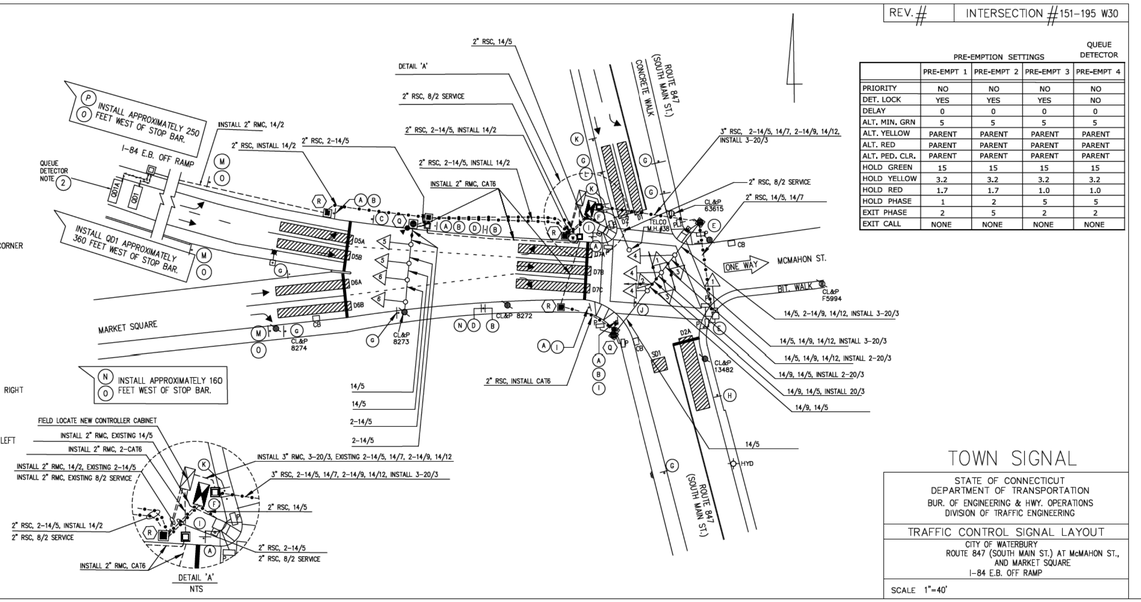
I-84 E.B. OFF RAMP

	TRAFFIC DATE	ELECTRICAL DATE
ENGINEER		HNTB CORPORATION
DRAFTER		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
DATE		

REV.#	INTERSECTION #151-195 W30

SIGN LEGEND

A	EXISTING	31-0509	DO NOT ENTER
B	EXISTING	31-0512	WRONG WAY
C	EXISTING	31-0513	WRONG WAY
D	REMOVE	31-0307	
E	EXISTING	31-0550	NO LEFT TURN
F	EXISTING	31-0554	NO RIGHT TURN
G	EXISTING	31-0630	N.P.A.T.
H	EXISTING	31-0613	NO PARKING HERE TO CORNER
I	EXISTING	31-0077	ONE WAY
J	EXISTING	31-0818	N.T.O.R.
K	EXISTING	31-0329	
L	EXISTING	31-0517	
M	INSTALL	31-0302	
N	INSTALL	31-0123	RIGHT LANE MUST TURN RIGHT
O	INSTALL	41-6125	AHEAD
P	INSTALL	31-0120	LEFT LANE MUST TURN LEFT



PRE-EMPTION SETTINGS

	PRE-EMPT 1	PRE-EMPT 2	PRE-EMPT 3	PRE-EMPT 4	QUEUE DETECTOR
PRIORITY	NO	NO	NO	NO	
DET. LOCK	YES	YES	YES	NO	
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.	PARENT	PARENT	PARENT	PARENT	
HOLD GREEN	15	15	15	15	
HOLD YELLOW	3.2	3.2	3.2	3.2	
HOLD RED	1.7	1.7	1.0	1.0	
HOLD PHASE	1	2	5	5	
EXIT PHASE	2	5	2	2	
EXIT CALL	NONE	NONE	NONE	NONE	

TOWN SIGNAL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUR. OF ENGINEERING & HWY. OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL LAYOUT

CITY OF WATERBURY
ROUTE 847 (SOUTH MAIN ST.) AT McMAHON ST., AND MARKET SQUARE
I-84 E.B. OFF RAMP

SCALE 1"=40'

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	WATERBURY		151-312	2022			

CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING EXCEPT AS NOTED.

CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" PRIOR TO EXCAVATION.

PULL EXISTING CABLES FROM EXISTING CONTROLLER INTO NEAREST HANDHOLE, RECONNECT CABLES TO NEW CONTROLLER.

INSTALL NEW CONTROLLER IN NEW CABINET ON NEW FOUNDATION PER SPECIFICATION. LOCATION TO BE FIELD ADJUSTED. CABINET DOOR TO OPEN FIELD SIDE.

REMOVE ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

CONTRACTOR SHALL PROVIDE TEMPORARY SIGNALIZATION AT THIS INTERSECTION UNDER ITEM NO. 1118077A - TEMPORARY SIGNALIZATION.

CONTRACTOR SHALL PROGRAM NEW SIGNAL PHASING AND TIMING AS SHOWN ON THE PLAN.

(W) INSTALL 30"X30" HANDHOLE. ALL OTHERS TO BE TYPE II.

(Q) VIDEO DETECTION BY 360 DEGREE CAMERA

(R) MODIFY HANDHOLE TO ACCEPT NEW CONDUIT.

VIDEO DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE CONTROLLER CABINET.

INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE SPECIFIED.

CENTER LOOP DETECTORS IN LANE.

SERIES SPLICE SEGMENTED LOOPS PER LANE. SEPARATE SAWCUTS TO HANDHOLE.

CLEAN EXISTING CONDUITS TO BE REUSED. WORK TO BE PAID UNDER ITEM# 1008908A - CLEAN EXISTING CONDUIT.

CLEAN EXISTING HANDHOLES TO BE REUSED. WORK TO BE PAID UNDER ITEM# 1010060A - CLEAN EXISTING HANDHOLE.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

CONTRACTOR TO INSTALL A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL CONTROLLER.

EMERGENCY PRE-EMPTION NOTES

ALL PRE-EMPTION EQUIPMENT IS NEW. PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE AUXILIARY EQUIPMENT CABINET.

REV.# | INTERSECTION #151-195 W30

NEW SHEET ADDED BY DESIGN CHANGE ORDER NO. 20 – 12/21/22

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: Michael P. Fedus, No. 27xxx, 100 Constitution Plaza, Hartford, CT 06103, 10/31/25

DESIGNER/DRAFTER: CHECKED BY:

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP**

TOWN(S): **WATERBURY**

DRAWING TITLE: **F.I.O. - S.R. 847 (SOUTH MAIN ST) AT I-84 EB EXIT 22 OFF-RAMP, MARKET SQ, AND McMAHON ST**

PROJECT NO.: **0151-0340**

DRAWING NO.: **FIO-08**

SHEET NO.: **07.68**

LASTED SAVED BY: sseperack **FILE NAME:** \\blcompanies.com\dfs\proj\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Traffic\Contract_Plans\TR_CP_0151-0340_SIGNAL_For_Information_Only.dgn
PLOTTED DATE: 8/18/2025