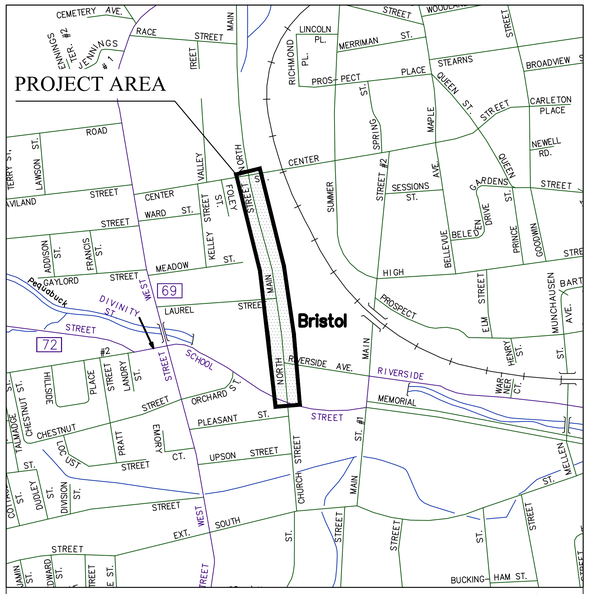


LOCATION MAP

(NOT TO SCALE)

CITY OF BRISTOL

PLAN

FOR THE

STREETSCAPE NORTH MAIN STREET FROM SCHOOL STREET TO CENTER STREET

IN THE CITY OF BRISTOL, CONNECTICUT

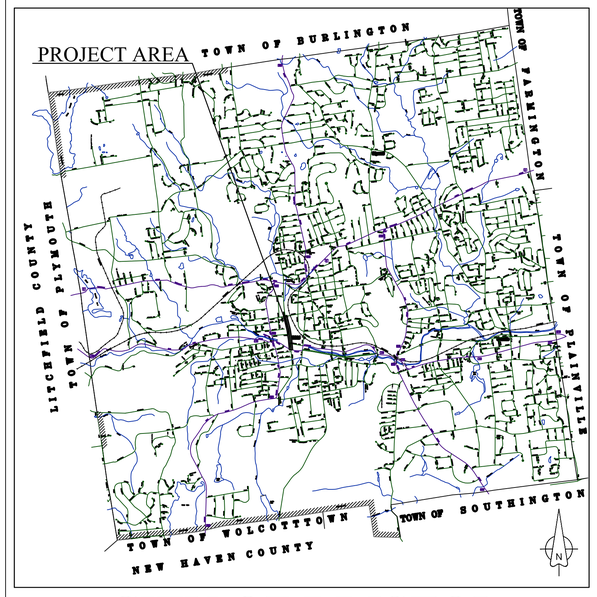
PROJECT LIMITS
STA. 0+00 TO STA. 20+81

DESIGN SCALES
PLAN: 1" = 20'
CROSS SECTION: 1" = 5' H., 1" = 5' V.

DESIGN SPEED
V = 25 MPH

SEMI-FINAL DESIGN

LIST OF DRAWINGS		
SHEET	DWG. NO.	TITLE
-	1	TITLE SHEET
SV.01-SV.04	2-5	SURVEY
C-1.0	6	OVERALL ALIGNMENT PLAN
C-2.0 -- C-2.3	7-10	ALIGNMENT PLANS
C-3.0	11	TYPICAL SECTIONS
C-4.0 -- C-4.3	12-15	ROADWAY, DRAINAGE, AND UTILITY PLANS
C-5.0, L-3.0	16-21	MISCELLANEOUS DETAILS
TR-STD_INDEX	22	TRAFFIC STANDARD SHEET INDEX
--	23-24	HIGH WAY STANDARD SHEET INDEX
L-1.0 -- L-1.3	25-28	SITE PLANS
L-2.0 -- L-2.3	29-32	PLANTING PLANS
C-6.0 -- C6.3	33-36	PAVEMENT MARKINGS & TRAFFIC MOVEMENT PLAN - PHASE 1 & 2
C-7.0 -- C7.15	37-52	ROADWAY SECTIONS
TCS-01 -- 04	53-56	TRAFFIC SIGNAL PLANS



CITY OF BRISTOL

(NOT TO SCALE)

NOTES:
1) ELEVATIONS ARE BASED ON NAVD 88
2) NORTH ARROW AND BEARING ARE BASED ON THE CONNECTICUT STATE PLANE COORDINATE SYSTEM (NAD 1983)

SPECIFICATIONS AND STANDARD DETAILS
SPECIFICATIONS THAT GOVERN THIS PROJECT ARE:
1) THE CITY OF BRISTOL "CODE OF ORDINANCES", DATED DECEMBER 2022
2) THE CTDOT "STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION" FORM 818, DATED 2020
3) THE TECHNICAL SPECIFICATIONS IN THE CONTRACT
4) THE CITY OF BRISTOL STANDARD DETAILS

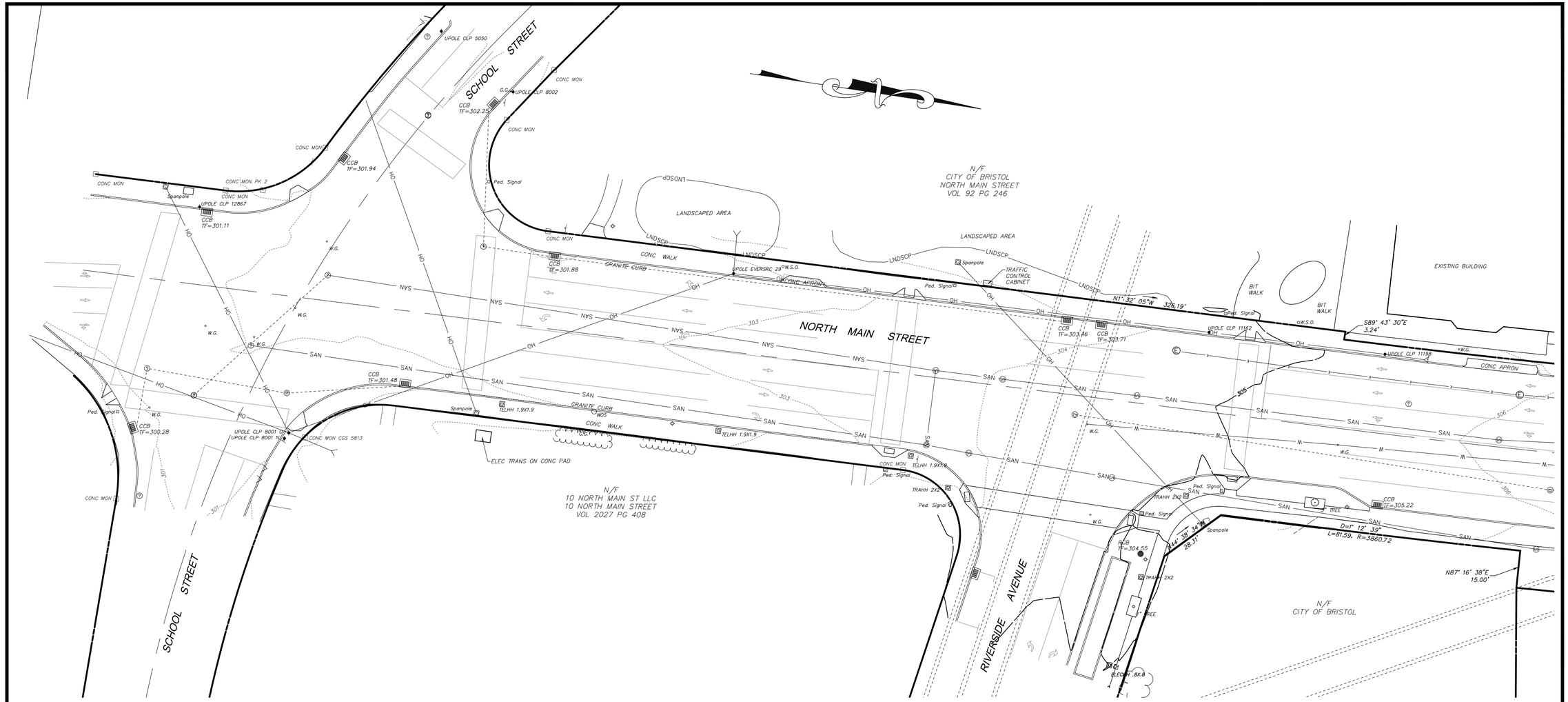
JEFFERY J. CAGGIANO - MAYOR

RAYMOND ROGOZINSKI, P.E. - DIRECTOR OF PUBLIC WORKS

NANCY LEVESQUE, P.E. - CITY ENGINEER

DRAWING NO: 1

TD Design, LLC \\ Watertown-y\V0000\V0077.00_Multis_Streetscape\Proj_Docs\Plan_Set_70077.00 Cover Sheet Preliminary.dwg Apr 07, 2023--5:09pm Plotted By: dsimonds



LEGEND

UTILITY SERVICES (UNDERGROUND OR OVERHEAD)

- E — ELECTRIC SERVICE
- G — GAS PIPES
- SAN — SANITARY SEWER PIPES
- STORM WATER PIPES (LESS THAN 12")
- STORM WATER PIPES (12" OR LARGER)
- STM — STEAM PIPES (SUPPLY & COND.)
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- PROPERTY/BOUNDARY LINES (CLASS A-2)
- PROPERTY/BOUNDARY LINES (CLASS D)
- EASEMENT LINES

FEATURE LINES

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- EDGE OF PAVED ROAD/DRIVE
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- STOCKADE FENCE
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- WETLANDS LIMIT
- LNDSCP — EDGE OF LANDSCAPING
- INTERMEDIATE CONTOUR
- INDEX CONTOUR

SYMBOL LEGEND

- CATCH BASIN
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ABBREVIATIONS

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BIT.	BITUMINOUS
BLK.	BLACK
CB	CATCH BASIN
COM	COMMUNICATION
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CONC.	CONCRETE
CNG	CONNECTICUT NATURAL GAS
CL	CENTERLINE
CLF	CHAIN LINK FENCE
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FND.	FOUND
GRAN.	GRANITE
GSTC	GRANITE STONE CURB
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H.H.	HAND HOLE
L.P.	LIGHT POLE
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M.W.	MONITOR WELL
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NE	NORTHEAST
N/F	NOW OR FORMERLY
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PVC	POLYVINYL CHLORIDE
P.I.V.	POST INDICATOR VALVE
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RCP	REINFORCED CONCRETE PIPE
R.L.	RAIN LEADER
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TEL.	TELEPHONE
T.F.	TOP OF FRAME
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TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS DEPICTED AND NOTED HEREON.

DAVID A. CARICCHIO, P.L.S. No. 70036 *DATE*
ALFRED BENESCH & COMPANY, GLASTONBURY, CONNECTICUT
(not valid without original signature and embossed seal)

REVISIONS		
No.	DATE	DESCRIPTION

SURVEY BOOK: 06-
SURVEYOR: PC
DRAWN: DAC
CHECKED: RS
APPROVED: WW

SCALE: HORZ.: 1" = 20'
VERT.:
SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

GRAPHIC SCALE 20 0 10 20

Prepared By:

benesch

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
Phone (860) 633-8341, Fax: (860) 633-1068
www.benesch.com

RIGHT OF WAY-TOPOGRAPHIC SURVEY
PREPARED FOR
CITY OF BRISTOL
(STREETSCAPE PROJECT)
NORTH MAIN STREET CONNECTICUT
BRISTOL

PROJ. No.: 70617-08
DATE: APRIL 2023

SV.01

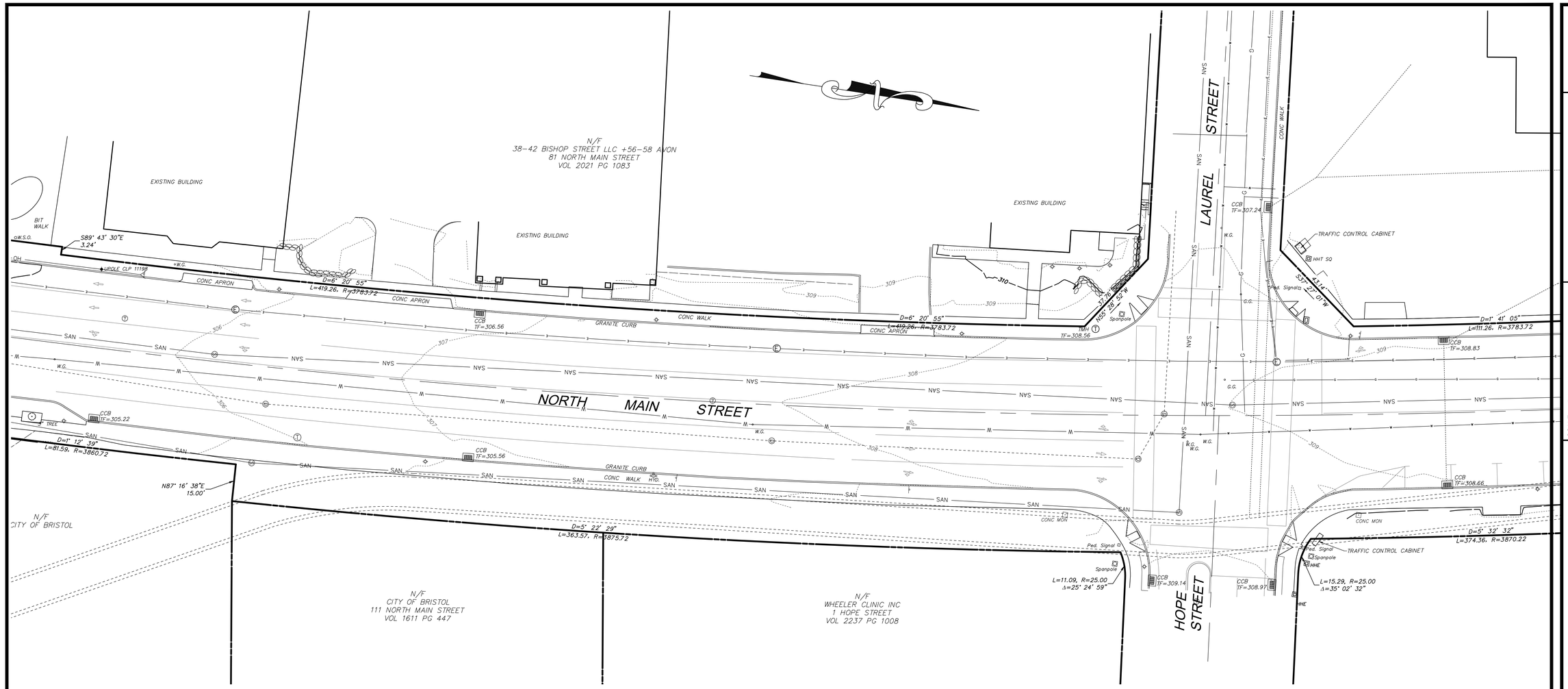
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PAPER SPACE LAYOUT NAME:
TWIST VIEW:
VIEW MANAGER:
LAYER MANAGER NAME:
PLOT TABLE: .STB



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ALFRED BENESCH & COMPANY, GLASTONBURY, CONNECTICUT
(not valid without original signature and embossed seal)

No.	DATE	REVISIONS DESCRIPTION

SURVEY BOOK: 06-
SURVEYOR: PC
DRAWN: DAC
CHECKED: RS
APPROVED: WW

SCALE: HORZ.: 1" = 20'
VERT.:
SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

GRAPHIC SCALE 20 0 10 20

Prepared By:

benesch

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
Phone (860) 633-8341, Fax: (860) 633-1068
www.benesch.com

RIGHT OF WAY-TOPOGRAPHIC SURVEY
PREPARED FOR
CITY OF BRISTOL
(STREETSCAPE PROJECT)
NORTH MAIN STREET
BRISTOL CONNECTICUT

PROJ. No.: 70617-08
DATE: APRIL 2023

SV.02

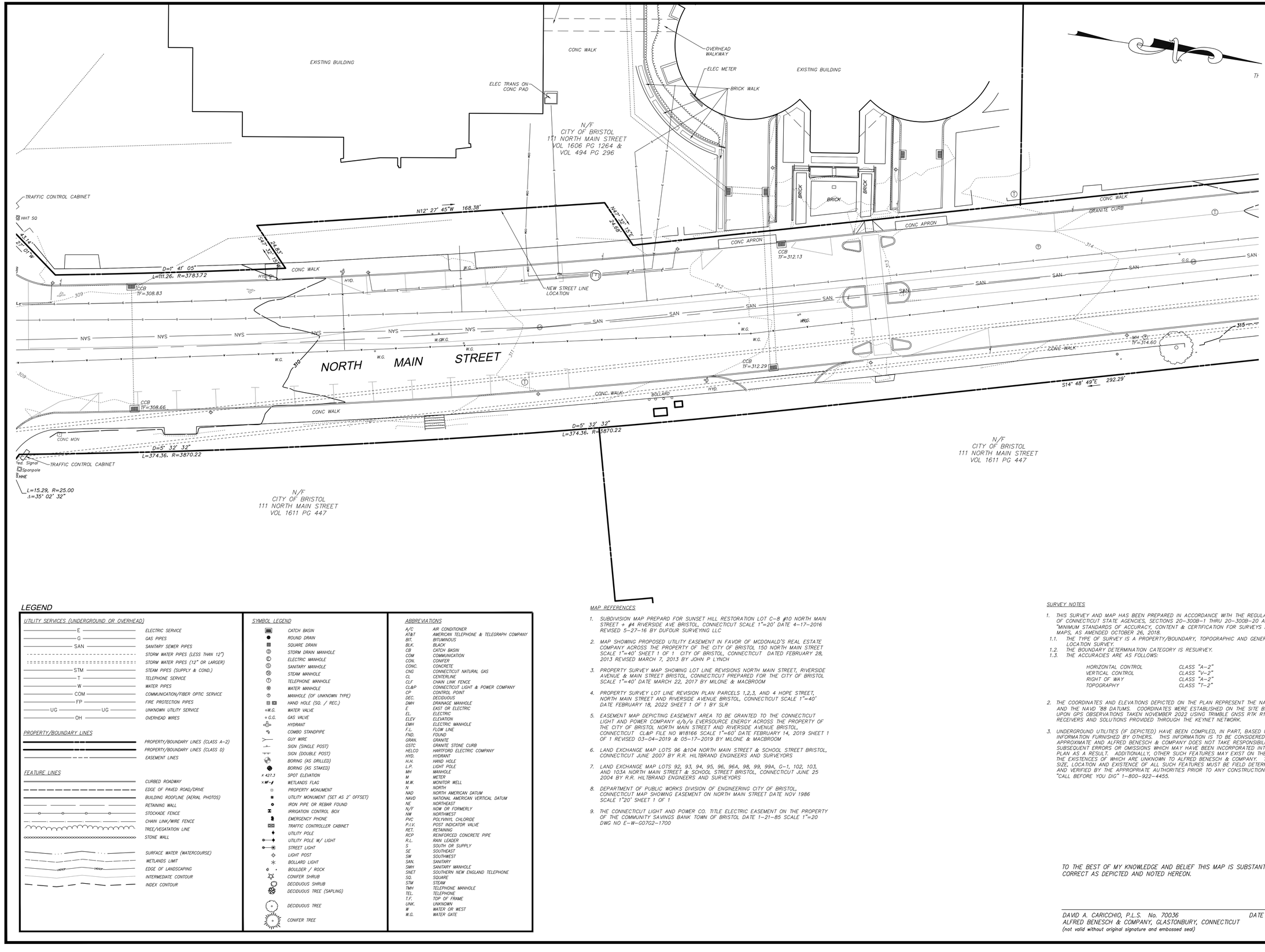
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VIEW NAME:
LAYER MANAGER NAME:
PLOT TABLE: STB

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attached xrefs: C:\Users\Dcariccio\Desktop\N MAIN.dwg

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Date of Plot: April 06, 2023 - 2:04 PM



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- INTERMEDIATE CONTOUR
- INDEX CONTOUR

SYMBOL LEGEND

- CATCH BASIN
- ROUND DRAIN
- SQUARE DRAIN
- STORM DRAIN MANHOLE
- ELECTRIC MANHOLE
- SANITARY MANHOLE
- STEAM MANHOLE
- TELEPHONE MANHOLE
- WATER MANHOLE
- MANHOLE (OF UNKNOWN TYPE)
- HAND HOLE (SQ. / REC.)
- W.G. WATER VALVE
- G.G. GAS VALVE
- HYDRANT
- COMBO STANDPIPE
- GUY WIRE
- SIGN (SINGLE POST)
- SIGN (DOUBLE POST)
- BORING (AS DRILLED)
- BORING (AS STAKED)
- 427.3 SPOT ELEVATION
- WF-1 WETLANDS FLAG
- PROPERTY MONUMENT
- UTILITY MONUMENT (SET AS 2" OFFSET)
- IRON PIPE OR REBAR FOUND
- IRRIGATION CONTROL BOX
- EMERGENCY PHONE
- TRAFFIC CONTROLLER CABINET
- UTILITY POLE
- UTILITY POLE W/ LIGHT
- STREET LIGHT
- LIGHT POST
- BOLLARD LIGHT
- BOULDER / ROCK
- CONIFER SHRUB
- DECIDUOUS SHRUB
- DECIDUOUS TREE (SAPLING)
- DECIDUOUS TREE
- CONIFER TREE

ABBREVIATIONS

A/C	AIR CONDITIONER
AT&T	AMERICAN TELEPHONE & TELEGRAPH COMPANY
BIT.	BITUMINOUS
BLK.	BLACK
CB	CATCH BASIN
COM	COMMUNICATION
CON.	CONIFER
CONC.	CONCRETE
CNG	CONNECTICUT NATURAL GAS
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CL&P	CONNECTICUT LIGHT & POWER COMPANY
CP	CONTROL POINT
DEC.	DECIDUOUS
DMH	DRAINAGE MANHOLE
E	EAST OR ELECTRIC
EL.	ELECTRIC
ELEV	ELEVATION
EMH	ELECTRIC MANHOLE
F.L.	FLOW LINE
FND.	FOUND
GRAN.	GRANITE
GSTC	GRANITE STONE CURB
HELCO	HARTFORD ELECTRIC COMPANY
HYD.	HYDRANT
H.H.	HAND HOLE
L.P.	LIGHT POLE
MH	MANHOLE
M	METER
M.W.	MONITOR WELL
N	NORTH
NAD	NORTH AMERICAN DATUM
NAVD	NATIONAL AMERICAN VERTICAL DATUM
NE	NORTHEAST
N/F	NOW OR FORMERLY
NW	NORTHWEST
PVC	POLYVINYL CHLORIDE
P.I.V.	POST INDICATOR VALVE
RET.	RETAINING
RCP	REINFORCED CONCRETE PIPE
R.L.	RAIN LEADER
S	SOUTH OR SUPPLY
SE	SOUTHEAST
SW	SOUTHWEST
SAN.	SANITARY
SMH	SANITARY MANHOLE
SNET	SOUTHERN NEW ENGLAND TELEPHONE
SQ.	SQUARE
STM	STEAM
TMH	TELEPHONE MANHOLE
TEL.	TELEPHONE
T.F.	TOP OF FRAME
UNK.	UNKNOWN
W	WATER OR WEST
W.G.	WATER GATE

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5. EASEMENT MAP DEPICTING EASEMENT AREA TO BE GRANTED TO THE CONNECTICUT LIGHT AND POWER COMPANY d/b/a EVERSOURCE ENERGY ACROSS THE PROPERTY OF THE CITY OF BRISTOL NORTH MAIN STREET AND RIVERSIDE AVENUE BRISTOL, CONNECTICUT CL&P FILE NO W18166 SCALE 1"=60' DATE FEBRUARY 14, 2019 SHEET 1 OF 1 REVISED 03-04-2019 & 05-17-2019 BY MILONE & MACBROOM
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SURVEY NOTES

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   - 1.2. THE BOUNDARY DETERMINATION CATEGORY IS RESURVEY.
   - 1.3. THE ACCURACIES ARE AS FOLLOWS:

HORIZONTAL CONTROL	CLASS "A-2"
VERTICAL CONTROL	CLASS "V-2"
RIGHT OF WAY	CLASS "A-2"
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DAVID A. CARICCHIO, P.L.S. No. 70036 DATE
ALFRED BENESCH & COMPANY, GLASTONBURY, CONNECTICUT
(not valid without original signature and embossed seal)

REVISIONS		
No.	DATE	DESCRIPTION

SURVEY BOOK: 06-
SURVEYOR: PC
DRAWN: DAC
CHECKED: RS
APPROVED: WW

SCALE: HORZ.: 1" = 20'
VERT.:
SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

GRAPHIC SCALE 20 0 10 20

Prepared By:

benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
Phone (860) 633-8341, Fax: (860) 633-1068
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RIGHT OF WAY-TOPOGRAPHIC SURVEY
PREPARED FOR
CITY OF BRISTOL
(STREETSCAPE PROJECT)
NORTH MAIN STREET
BRISTOL CONNECTICUT

PROJ. No.: 70617-08
DATE: APRIL 2023

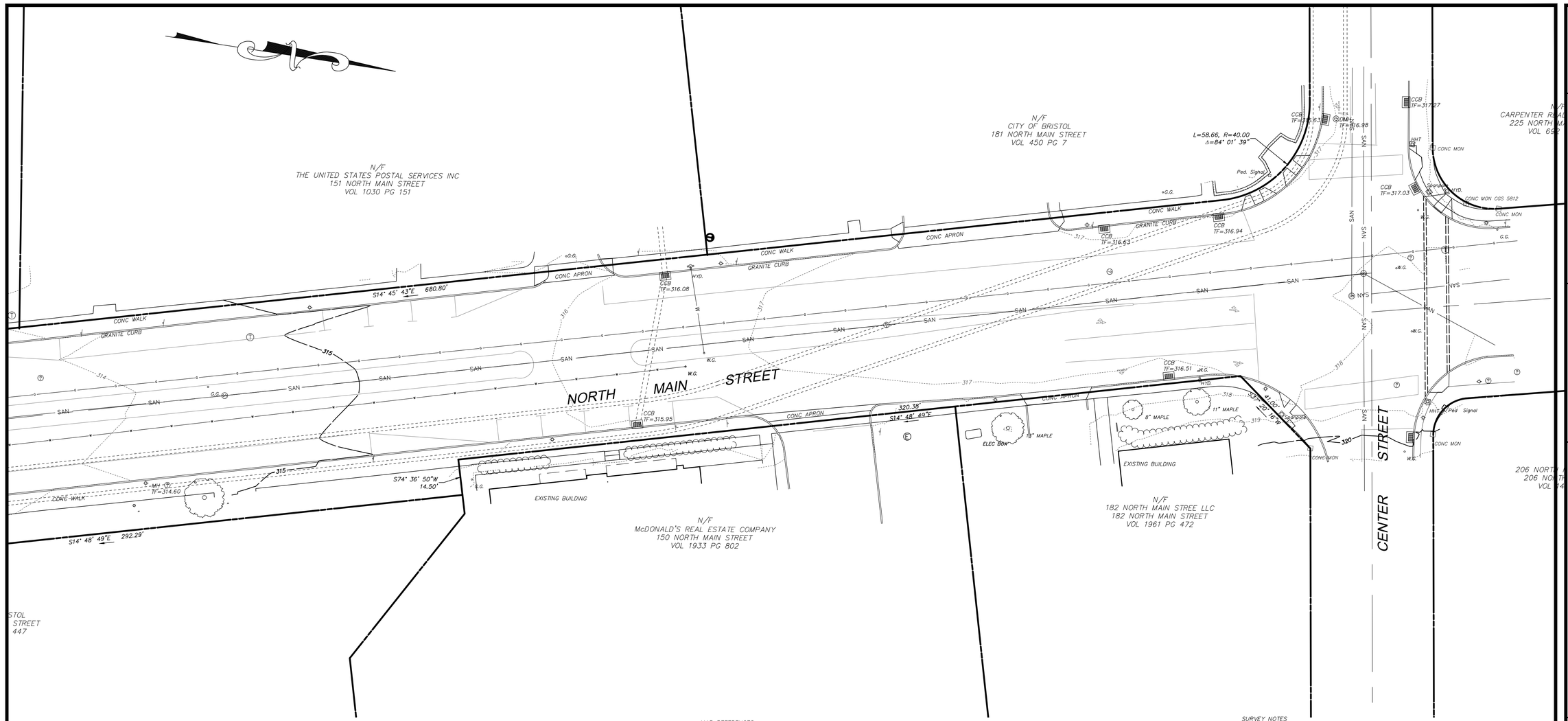
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TWISTVIEW:
VIEW NAME:
LAYER MANAGER NAME:
PLOT TABLE: STB

File Location/Name - Y:\Glastonbury\706008\706717-08_NMain_Streetscape\Survey\ACAD\70617-08 Survey.dwg
Date of Plot: April 06, 2023 - 2:04 PM



LEGEND

UTILITY SERVICES (UNDERGROUND OR OVERHEAD)

- E — ELECTRIC SERVICE
- G — GAS PIPES
- SAN — SANITARY SEWER PIPES
- STORM WATER PIPES (LESS THAN 12")
- STORM WATER PIPES (12" OR LARGER)
- STM — STEAM PIPES (SUPPLY & COND.)
- T — TELEPHONE SERVICE
- W — WATER PIPES
- COM — COMMUNICATION/FIBER OPTIC SERVICE
- FP — FIRE PROTECTION PIPES
- UG — UG — UNKNOWN UTILITY SERVICE
- OH — OVERHEAD WIRES

PROPERTY/BOUNDARY LINES

- PROPERTY/BOUNDARY LINES (CLASS A-2)
- PROPERTY/BOUNDARY LINES (CLASS D)
- EASEMENT LINES

FEATURE LINES

- CURBED ROADWAY
- EDGE OF PAVED ROAD/DRIVE
- BUILDING ROOFLINE (AERIAL PHOTOS)
- RETAINING WALL
- STOCKADE FENCE
- CHAIN LINK/WIRE FENCE
- TREE/VEGATATION LINE
- STONE WALL
- SURFACE WATER (WATERCOURSE)
- WETLANDS LIMIT
- EDGE OF LANDSCAPING
- INTERMEDIATE CONTOUR
- INDEX CONTOUR

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ALFRED BENESCH & COMPANY, GLASTONBURY, CONNECTICUT
(not valid without original signature and embossed seal)

No.	DATE	REVISIONS DESCRIPTION

SURVEY BOOK: 06-
SURVEYOR: PC
DRAWN: DAC
CHECKED: RS
APPROVED: WW

SCALE: HORZ.: 1" = 20'
VERT.:
SURVEY DATUM: HORZ.: NAD 1983
VERT.: NAVD 1988

GRAPHIC SCALE 20 0 10 20

Prepared By:

benesch

Alfred Benesch & Company
120 Hebron Avenue 2nd Floor
Glastonbury, Connecticut 06033
Phone (860) 633-8341, Fax: (860) 633-1068
www.benesch.com

RIGHT OF WAY-TOPOGRAPHIC SURVEY
PREPARED FOR
CITY OF BRISTOL
(STREETSCAPE PROJECT)
NORTH MAIN STREET
BRISTOL CONNECTICUT

PROJ. No.: 70617-08
DATE: APRIL 2023

SV.04

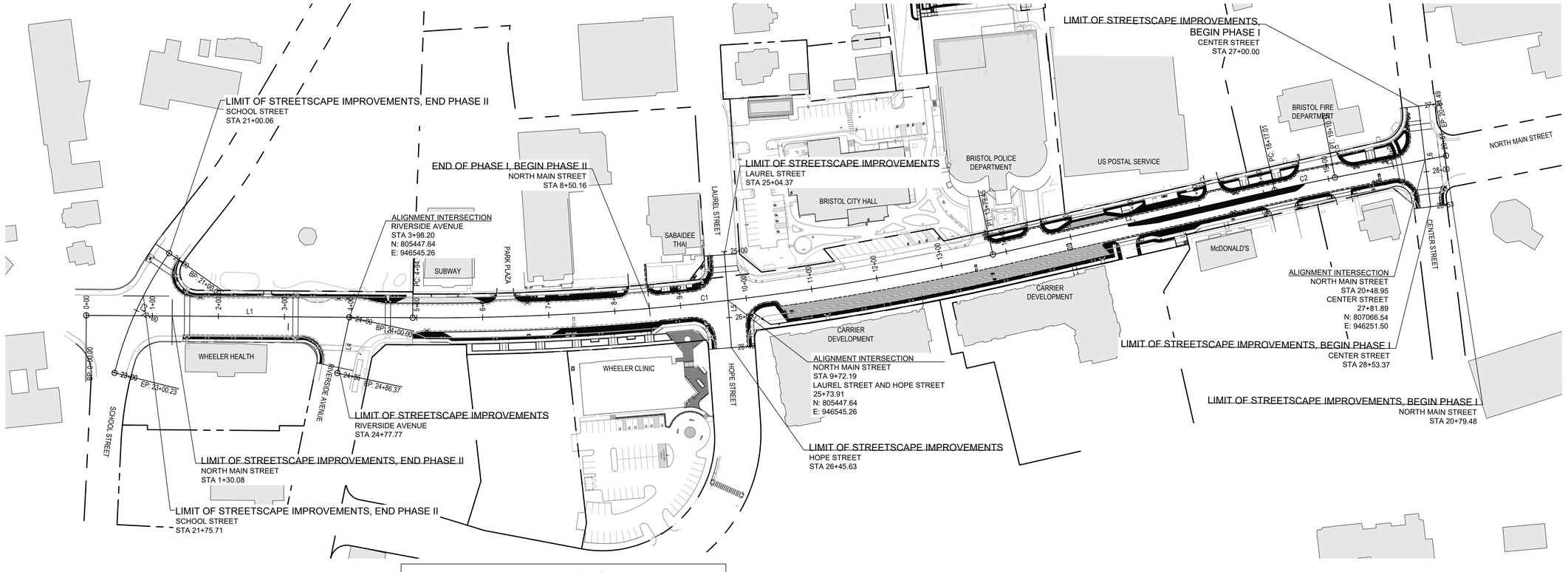
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Date of Plot: April 06, 2023 - 2:04 PM

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attached xrefs: C:\Users\Dcaricchio\Desktop\N MAIN.dwg

PAPER SPACE LAYOUT NAME:
TWIST VIEW:
VIEW NAME:
LAYER MANAGER NAME:
PLOT TABLE: .STB



Alignment - North Main Street				
LABEL	START STATION	START NORTHING & EASTING	END STATION	END NORTHING & EASTING
L1	0+00.00	N:805049.5789 E:946555.9238	20+81.49	N:805543.5373 E:946542.6886
C1	4+94.14	N:805543.5373 E:946542.6886	13+79.45	N:806417.8968 E:946417.0935
L2	0+00.00	N:806417.8968 E:946417.0935	20+81.49	N:806840.9146 E:946305.2204
C2	18+17.01	N:806840.9146 E:946305.2204	19+10.15	N:806931.3110 E:946282.8091
L3	0+00.00	N:806931.3110 E:946282.8091	20+81.49	N:807098.2361 E:946244.1647

Alignment - School Street				
LABEL	START STATION	START NORTHING & EASTING	END STATION	END NORTHING & EASTING
C3	21+00.00	N:805171.8397 E:946457.5795	23+00.23	N:805095.3888 E:946641.3988

Alignment - Riverside Avenue				
LABEL	START STATION	START NORTHING & EASTING	END STATION	END NORTHING & EASTING
L4	24+00.00	N:805447.6372 E:946545.2582	24+86.37	N:805432.4536 E:946630.2789

Curve Table: Alignment - PC				Curve Table: Alignment - PI								Curve Table: Alignment - PT			
Curve #	PC Station	PC Northing	PC Easting	Curve #	PI Station	PI Northing	PI Easting	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH	Curve #	PT Station	PT Northing	PT Easting
C1	4+94.14	805543.54	946542.69	C1	9+38.78	805988.03	946530.78	13°16'43.4"	444.65	3820.00	885.31	C1	13+79.45	806417.90	946417.09
C2	18+17.01	806840.91	946305.22	C2	18+63.58	806885.94	946293.31	1°46'43.6"	46.57	3000.00	93.14	C2	19+10.15	806931.31	946282.81
C3	21+00.00	805171.84	946457.58	C3	22+01.28	805116.38	946542.32	21°14'33.3"	101.28	540.06	200.23	C3	23+00.23	805095.39	946641.40

Prepared by:

benesch

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:

Bristol CONNECTICUT All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN

0 80' 160'

SCALE: 1" = 80'

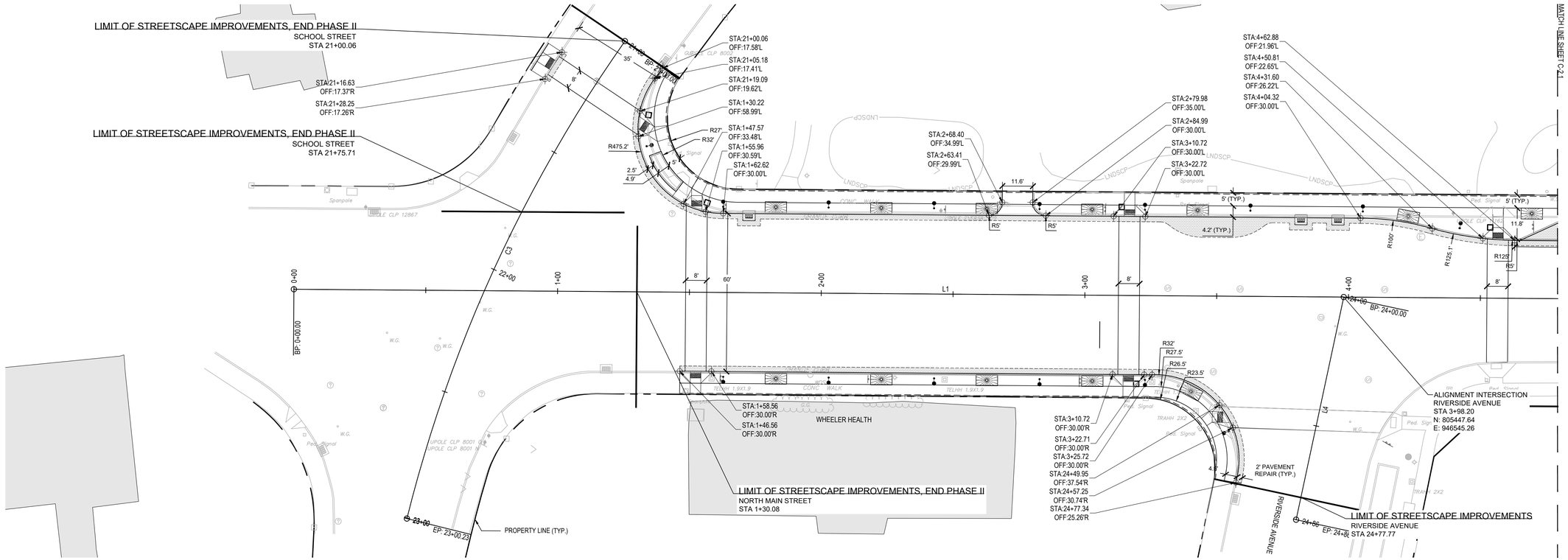
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SCALE: **1"=20'**
DATE: **04/07/2023**

DRAWN BY: **ENB**
CHECKED BY: **RGS**

OVERALL ALIGNMENT PLAN

DRAWING NO.:

C-1.0



Prepared by:

benesch

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:

Bristol CONNECTICUT All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN

0 20' 40'

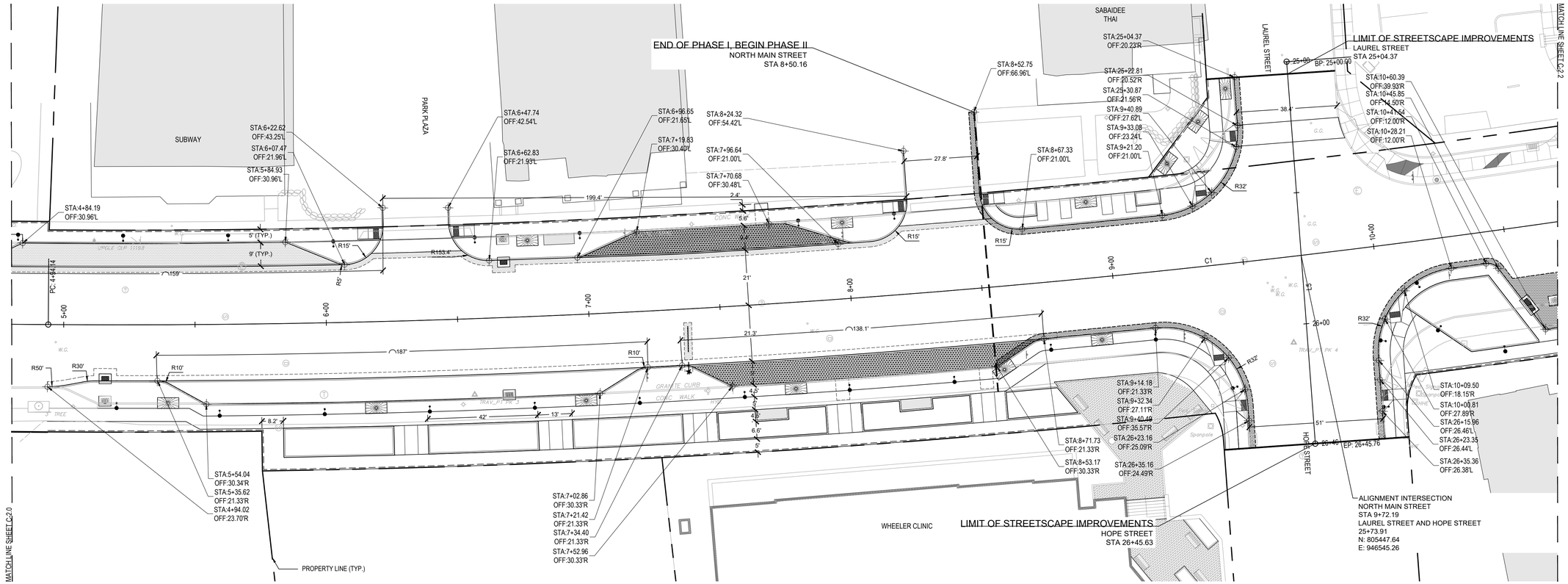
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PROJECT NO.: **70617.08**
SCALE: **1"=20'**
DATE: **04/07/2023**

DRAWN BY: **ENB**
CHECKED BY: **RGS**

ALIGNMENT PLAN

DRAWING NO.:
C-2.0



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BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

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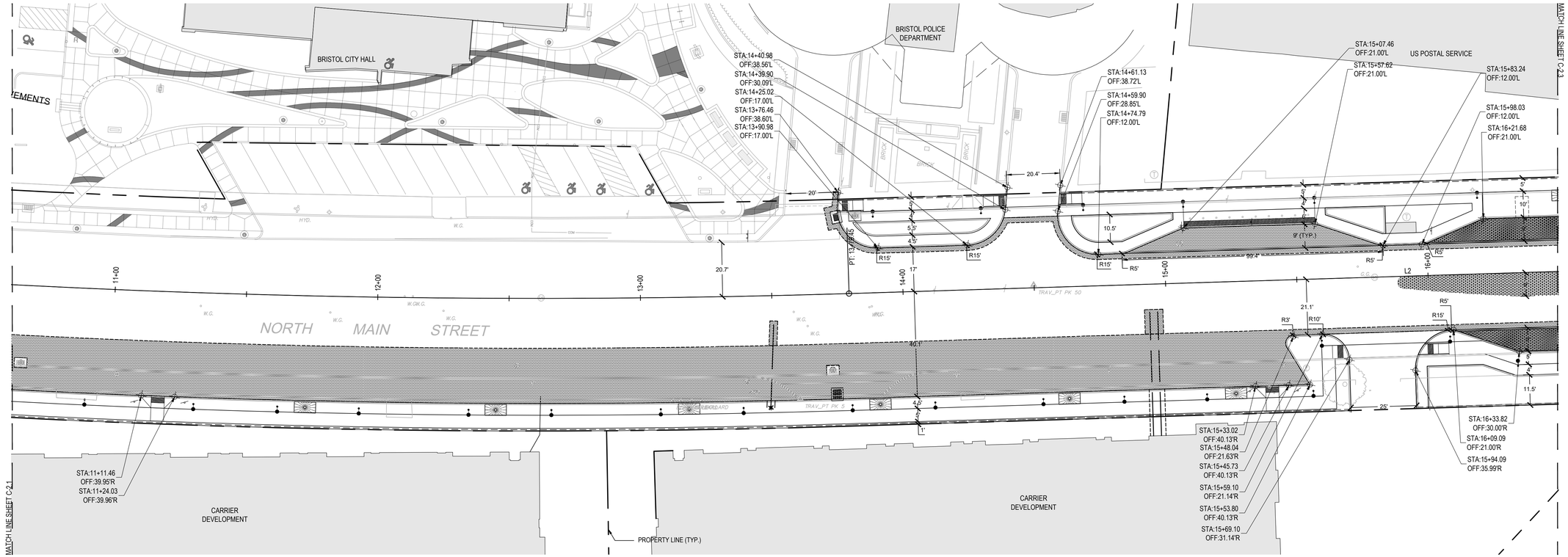
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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN

0 20' 40'

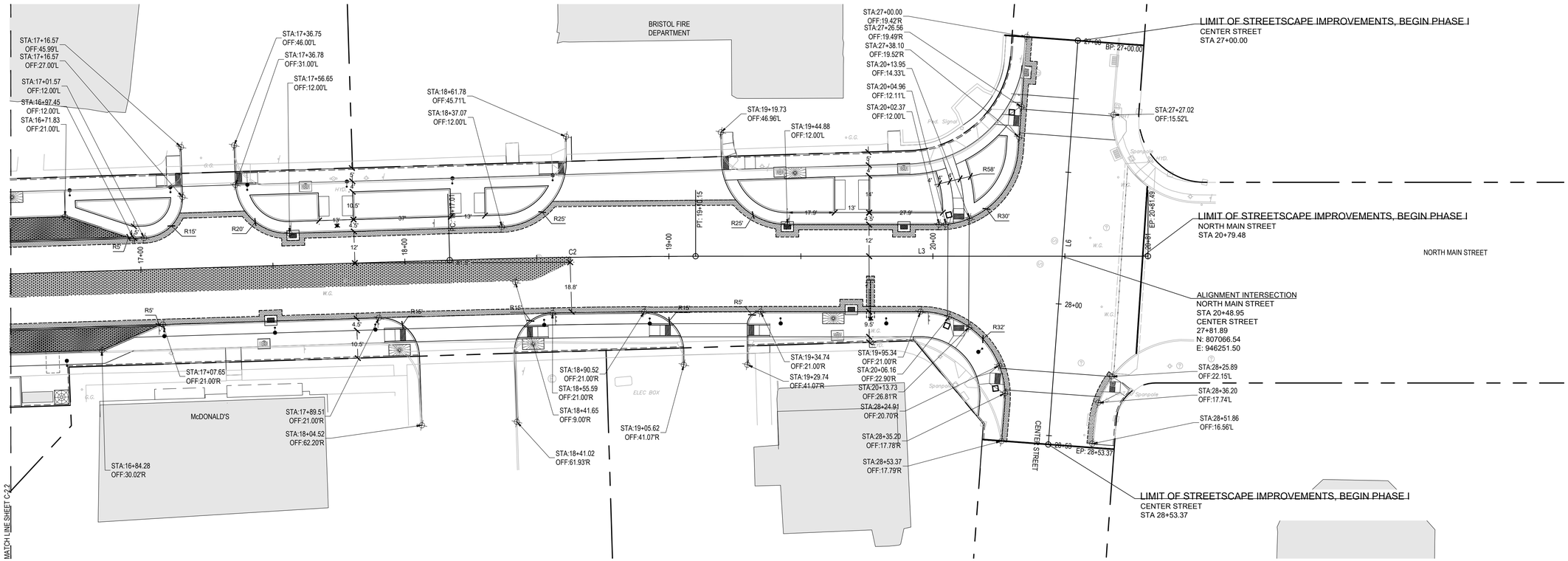
SCALE: 1" = 20'

PROJECT NO.: **70617.08**
SCALE: **1"=20'**
DATE: **04/07/2023**

DRAWN BY: **ENB**
CHECKED BY: **RGS**

ALIGNMENT PLAN

DRAWING NO.:
C-2.2



Prepared by:

benesch

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:

Bristol CONNECTICUT All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN

0 20' 40'

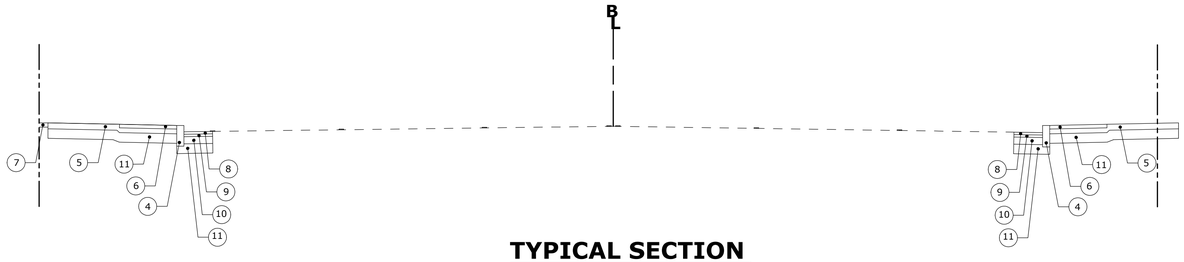
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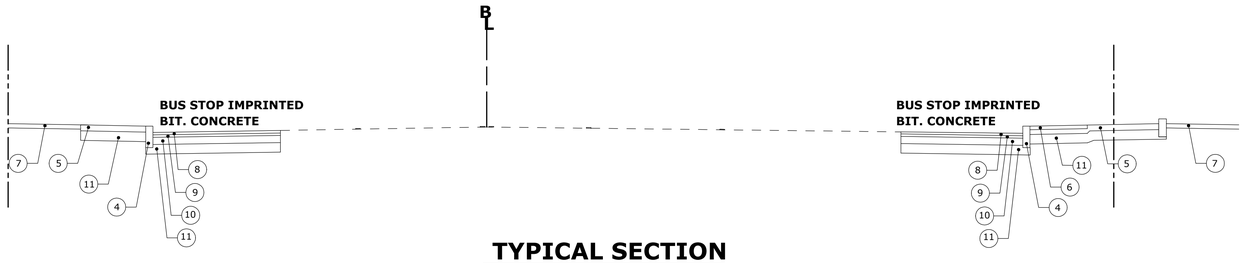
DRAWING NO.:
C-2.3



TYPICAL SECTION

NORTH MAIN ST. (STATE ROUTE 72)

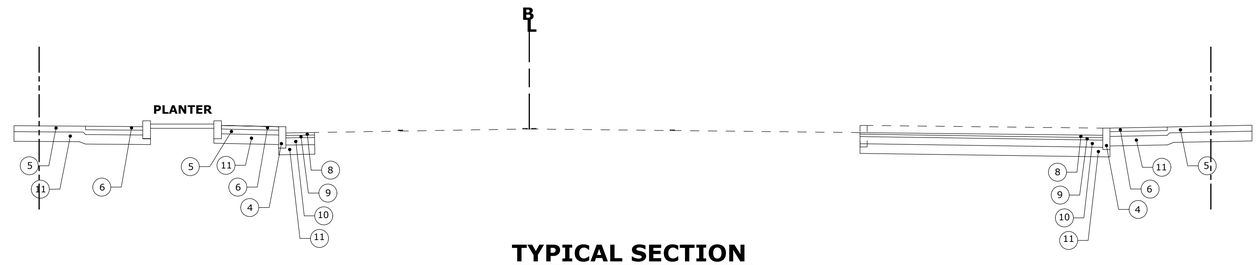
STA. 1+30 TO 4+00



TYPICAL SECTION

NORTH MAIN ST. (STATE ROUTE 72)

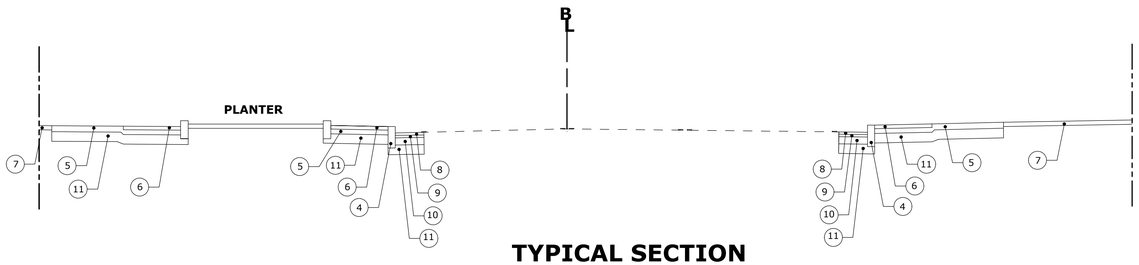
STA. 4+00 TO 9+50



TYPICAL SECTION

NORTH MAIN ST. (STATE ROUTE 72)

STA. 9+50 TO 15+50



TYPICAL SECTION

NORTH MAIN ST. (STATE ROUTE 72)

STA. 15+50 TO 20+80

LEGEND

1. EXISTING GRANITE CURBING
2. EXISTING BASE MATERIAL
3. EXISTING SUBBASE MATERIAL
4. GRANITE CURBING
5. CONCRETE SIDEWALK
6. BRICK PAVER AMENITY STRIP
7. TOPSOIL (4") AND TURF ESTABLISHMENT
8. 2" HMA S0.375
9. 2" HMA S0.5
10. 6" PROCESSED AGGREGATE
11. 8" SUBBASE
12. 4" HMA S0.375 (2 LIFTS)
13. 6" HMA S1.0
14. 10" SUBBASE
15. 6" CONCRETE

Prepared by:

benesch

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
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Prepared for:

Bristol CONNECTICUT All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN

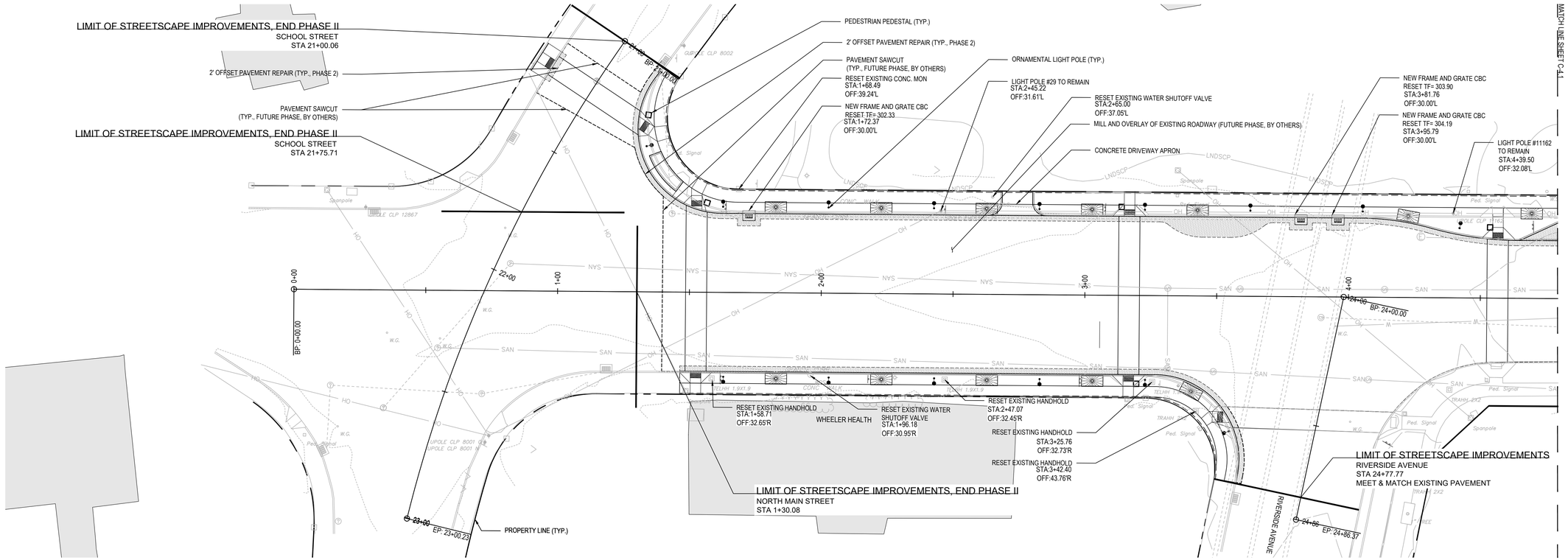
PROJECT NO.: **70617.08**
SCALE: **AS SHOWN**
DATE: **04/07/2023**

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CHECKED BY: **RGS**

TYPICAL SECTIONS

DRAWING NO.:

C-3.0



Prepared by:
benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

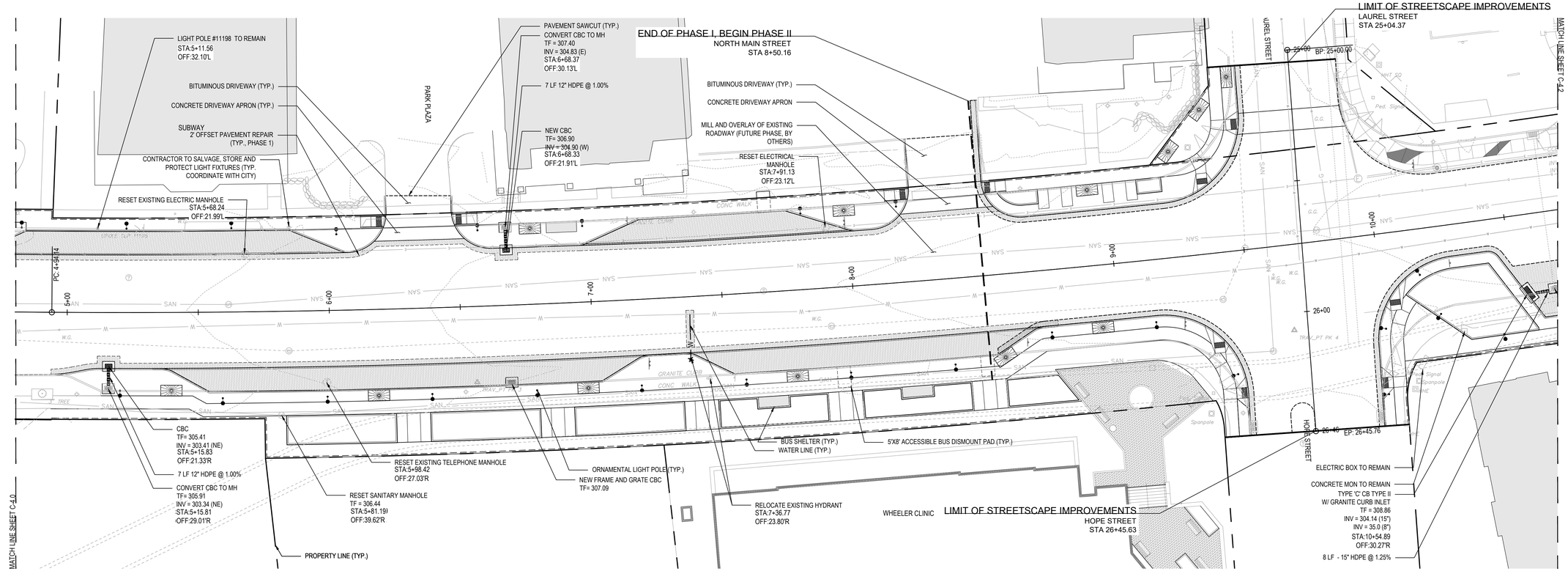
KEY PLAN

0 20' 40'
SCALE: 1" = 20'

PROJECT NO.: **70617.08**
SCALE: **1"=20'**
DATE: **04/07/2023**
DRAWN BY: **ENB**
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ROADWAY, DRAINAGE, AND UTILITY PLAN

DRAWING NO.:
C-4.0



Prepared by:

benesch

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:

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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN

0 20' 40'

SCALE: 1" = 20'

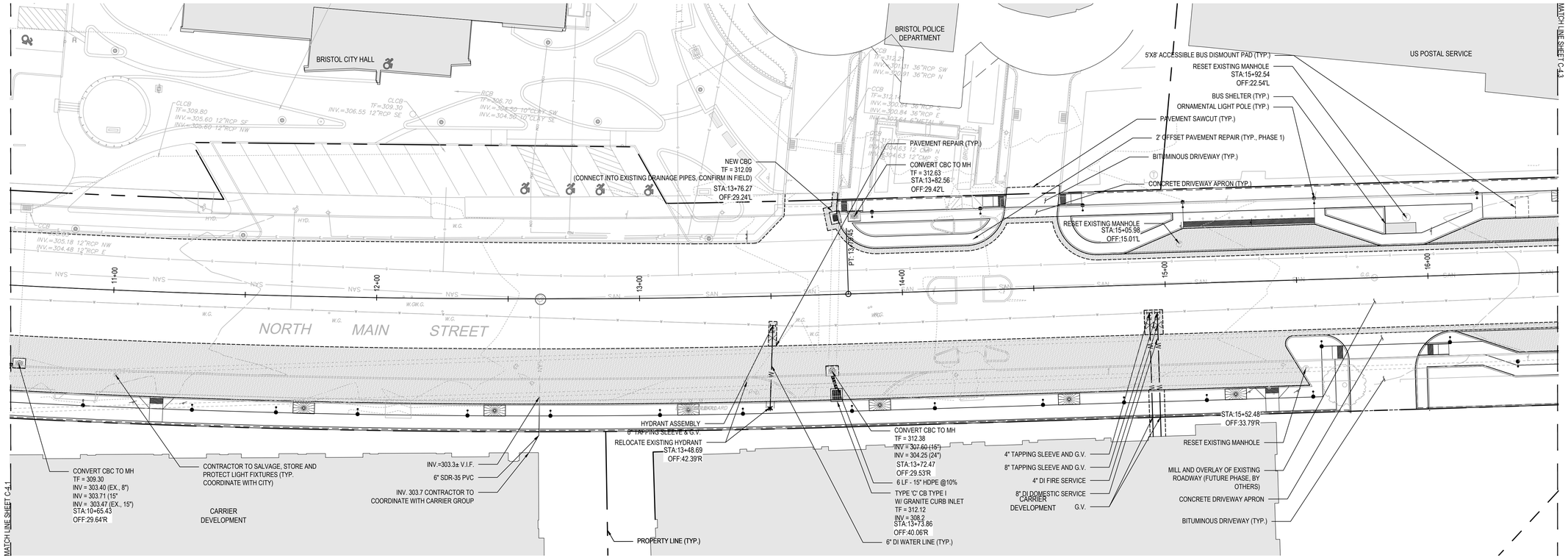
PROJECT NO.: **70617.08**
SCALE: **1"=20'**
DATE: **04/07/2023**

DRAWN BY: **ENB**
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ROADWAY, DRAINAGE, AND UTILITY PLAN

DRAWING NO.:

C-4.1



Prepared by:

benesch

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:

Bristol CONNECTICUT All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

NORTH MAIN STREET — BRISTOL, CT

DATE:	REVISION:

KEY PLAN

0 20' 40'

SCALE: 1" = 20'

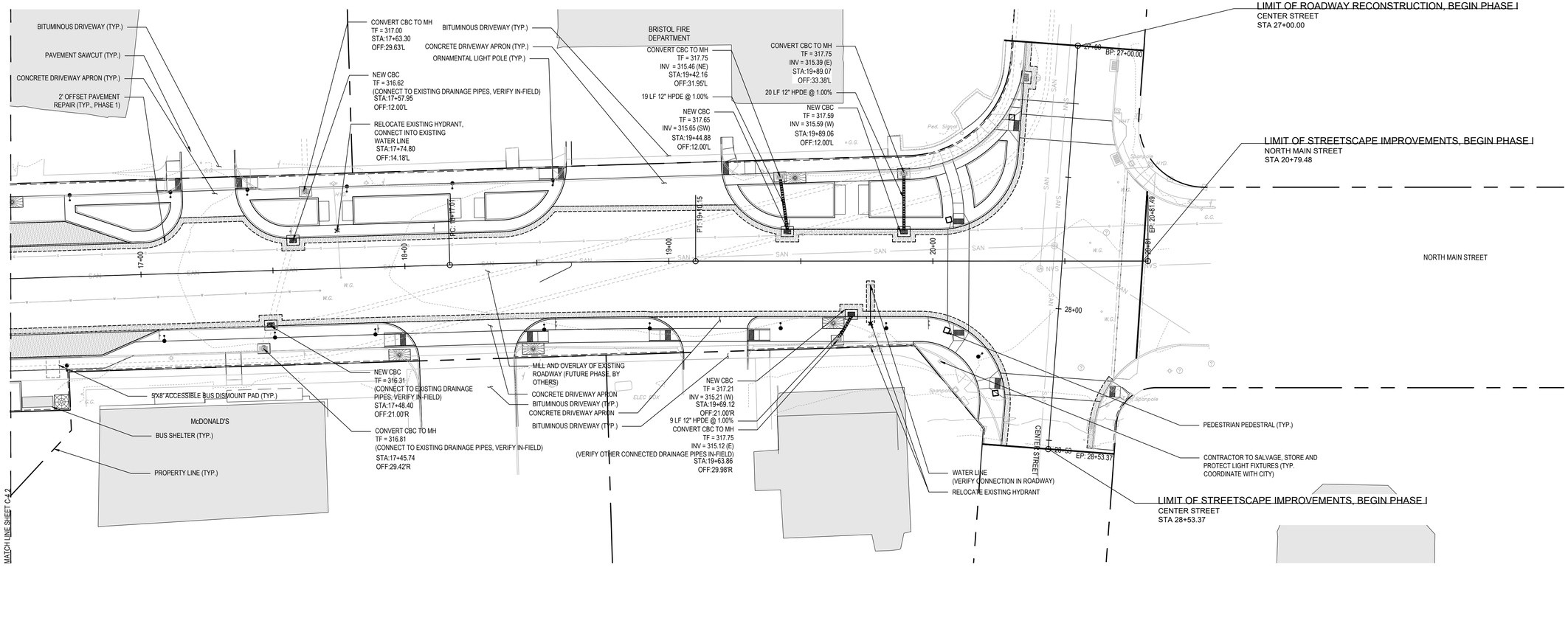
PROJECT NO.: **70617.08**
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ROADWAY, DRAINAGE, AND UTILITY PLAN

DRAWING NO.:

C-4.2



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benesch

Alfred Benesch & Company
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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

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0 20' 40'

SCALE: 1" = 20'

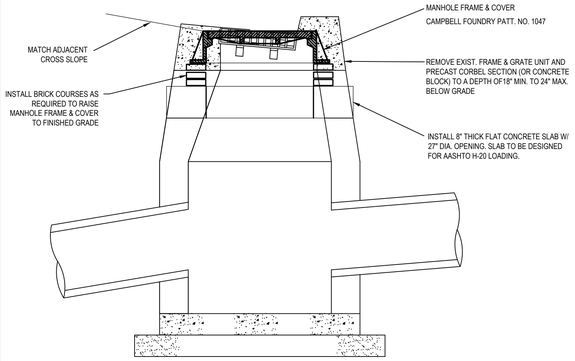
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ROADWAY, DRAINAGE, AND UTILITY PLAN

DRAWING NO.:

C-4.3



1 CB TO MH DETAIL
NTS

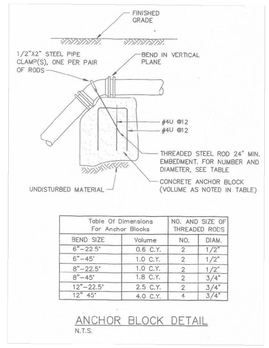


Table Of Dimensions For Anchor Blocks		NO. AND SIZE OF THREADED RODS	
BEND SIZE	Volume	NO.	DIAM.
8"–22.5°	0.6 C.Y.	2	1/2"
6"–45°	1.0 C.Y.	2	1/2"
8"–22.5°	1.0 C.Y.	2	1/2"
8"–45°	1.5 C.Y.	2	3/4"
12"–22.5°	2.5 C.Y.	2	3/4"
12" 45°	4.0 C.Y.	4	3/4"

ANCHOR BLOCK DETAIL
N.T.S.

5 ANCHOR BLOCK DETAIL - CITY OF BRISTOL
NTS

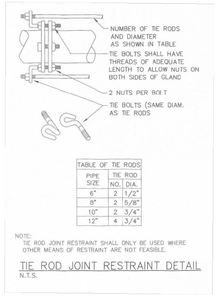
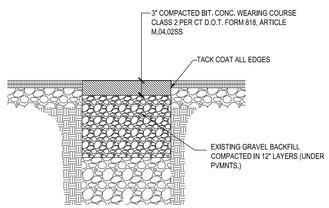


TABLE OF TIE RODS		
PIPE SIZE	TIE ROD NO.	TIE ROD DIA.
6"	2	1/2"
8"	2	5/8"
10"	2	3/4"
12"	4	3/4"

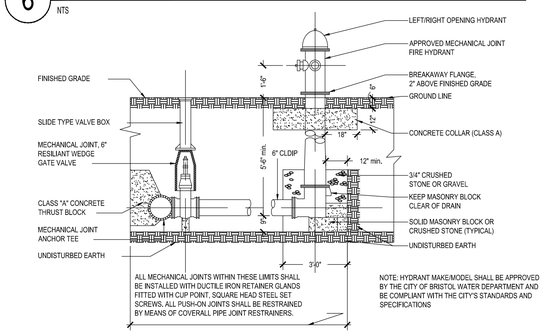
NOTE:
TIE ROD JOINT RESTRAINT SHALL ONLY BE USED WHERE OTHER MEANS OF RESTRAINT ARE NOT FEASIBLE.

TIE ROD JOINT RESTRAINT DETAIL
N.T.S.

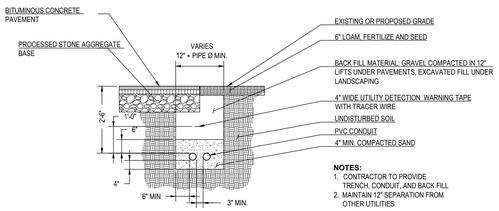
2 WATER MAIN TRENCH DETAIL - CITY OF BRISTOL
NTS



6 TIE ROD JOINT RESTRAINT DETAIL - CITY OF BRISTOL
NTS



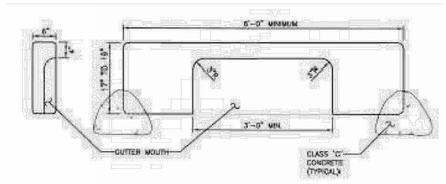
3 PAVEMENT REPAIR
NTS



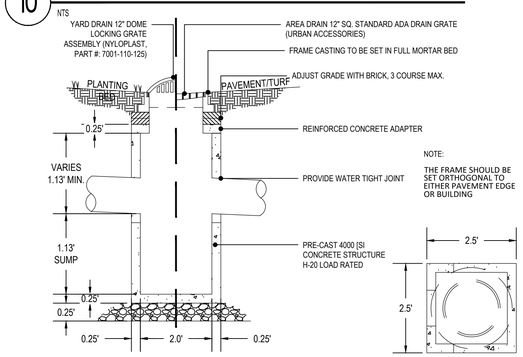
ELECTRICAL CONDUIT TRENCH
N.T.S.

4 ELECTRICAL CONDUIT TRENCH DETAIL
NTS

7 HYDRANT ASSEMBLY DETAIL
NTS



10 GRANITE CUBR INLET
NTS



11 AREA DRAIN / YARD DRAIN DETAIL
NTS

Prepared by:
benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET
NORTH MAIN STREET
BRISTOL, CT

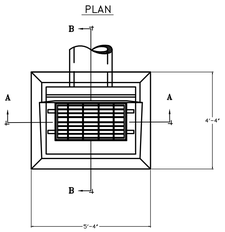
DATE:	REVISION:

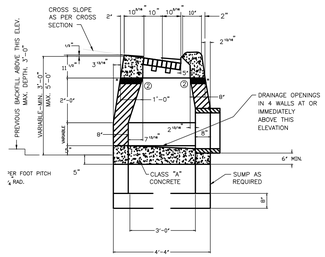
KEY PLAN

PROJECT NO.: **70617.08**
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CHECKED BY: **RGS**

MISCELLANEOUS DETAILS

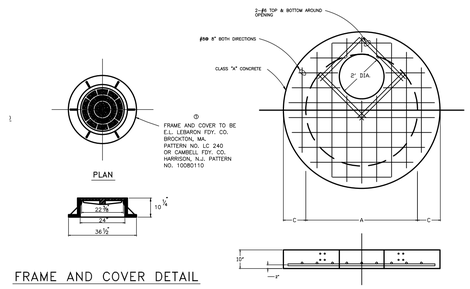
DRAWING NO.:
C-5.0





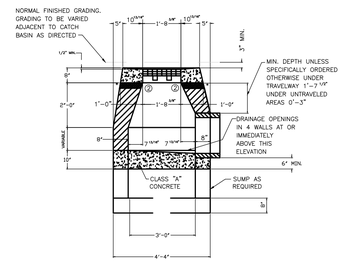
SECTION B-B

TYPE "C" CATCH BASIN



FRAME AND COVER DETAIL

MANHOLE SLAB



SECTION B-B

TYPE "C-L" CATCH BASIN

1 TYPE 'C-L' FRAME AND GRATE AND SECTION REFERENCE (C. OF BRISTOL.)

NTS

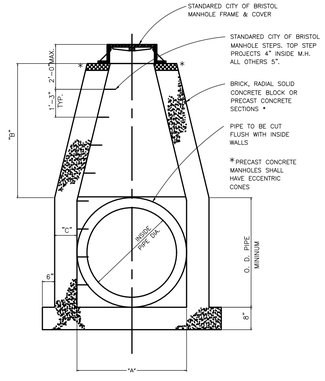
GENERAL NOTES

1. BACKFILL ALL STRUCTURES WITH BANK-RUN GRAVEL.
2. STRUCTURE BASES ARE TO BE CLASS "A" CONCRETE.
3. STRENGTH OF CLASS "A" CONCRETE SHALL BE 3,000 P.S.I. AT 28 DAYS.
4. MANHOLESS WHICH ARE LOCATED IN RIGHT-OF-WAY OFF CITY STREETS OR DEDICATED CITY STREETS SHALL HAVE BOLT DOWN MANHOLE COVERS.
5. MANHOLE FRAME & COVER TO BE SET FLUSH WITH PAVEMENT OR 6" ABOVE FINISHED GRADE IN UNPAVED AREAS.
6. FOR CHANGE OF DIRECTION OF MAIN FLOW IN MANHOLE, INVERT OF 1/2 DIA. OF PIPE MUST BE CONSTRUCTED.
7. CATCH BASIN FRAME AND GRATE SHALL CONFORM TO THE STATE OF CONN. STANDARD DRAWING NO. 228-D FOR STEEL FRAME AND GRATE - TYPE A (STANDARD).
8. ALL REINFORCEMENT SHALL BE GRADE 60 STEEL.
9. FOR PRECAST CONCRETE STRUCTURES, MINIMUM 2 COURSES OF BRICK (MAXIMUM 12") REQUIRED BETWEEN STRUCTURE AND FRAME. *

STANDARD MANHOLE		
BLOCK		PRECAST
A	4'-0"	4'-0"
B	MIN. 2'-6" MAX. 4'-0"	3'-0" MIN. 4'-0"
C	MIN. 8" MAX. 12"	5" MIN. 5"

** VERTICAL DISTANCE LESS THAN THESE WILL REQUIRE THE USE OF PRECAST CONCRETE SLABS. SEE DETAIL.

OVERSIZED MANHOLE		
BLOCK		PRECAST
A	5'-0"	5'-0"
B	MIN. 5'-0" MAX. 6'-0"	6'-0" MIN. 6'-0"
C	MIN. 10" MAX. 12"	6" MIN. 6"



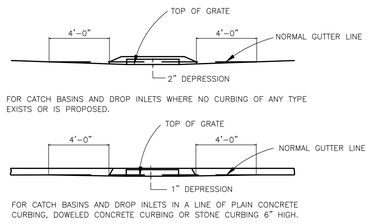
STORM WATER MANHOLE

2 STORMWATER MANHOLE DETAIL (CITY OF BRISTOL)

NTS

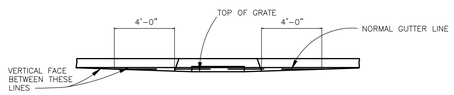
4 TYPE 'C' CATCH BASIN DETAIL (CITY OF BRISTOL)

NTS



FOR CATCH BASINS AND DROP INLETS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED.

FOR CATCH BASINS AND DROP INLETS IN A LINE OF PLAIN CONCRETE CURBING, DOWELED CONCRETE CURBING OR STONE CURBING 6" HIGH.



FOR CATCH BASINS AND DROP INLETS IN A LINE OF BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED) 6" HIGH.

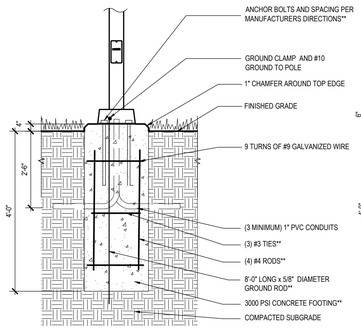
NOTES

1. GRADE 6'-0" ON UP GRADE SIDE OF CONTINUOUS GRADE, 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED.
2. VARY CROSS SLOPE OF GUTTER TO MATCH CROSS OF GRATE.

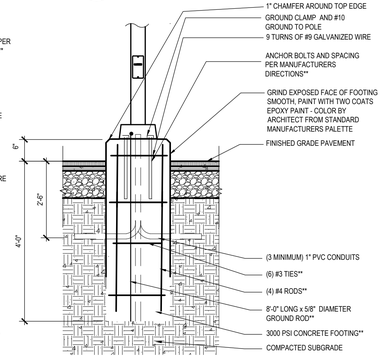
DEPRESSED GUTTER STRIP DETAILS

5 DEPRESSED GUTTER STRIP DETAILS (CITY OF BRISTOL)

NTS



FOOTING IN LAWN



FOOTING IN PAVEMENT/PAVERS

** DELEGATED DESIGN: FOOTING DIAMETER AND REINFORCEMENT BY CONTRACTOR. CONTRACTOR SHALL PROVIDE FOOTING DESIGN STAMPED AND SIGNED BY A CONNECTICUT LICENSED ENGINEER. FOOTING DESIGN SHALL BE BASED ON LIGHT FIXUTURE SUBMITTED FOR APPROVAL DURING CONSTRUCTION.

6 MANHOLE SLAB, FRAME AND COVER DETAIL (CITY OF BRISTOL)

NTS

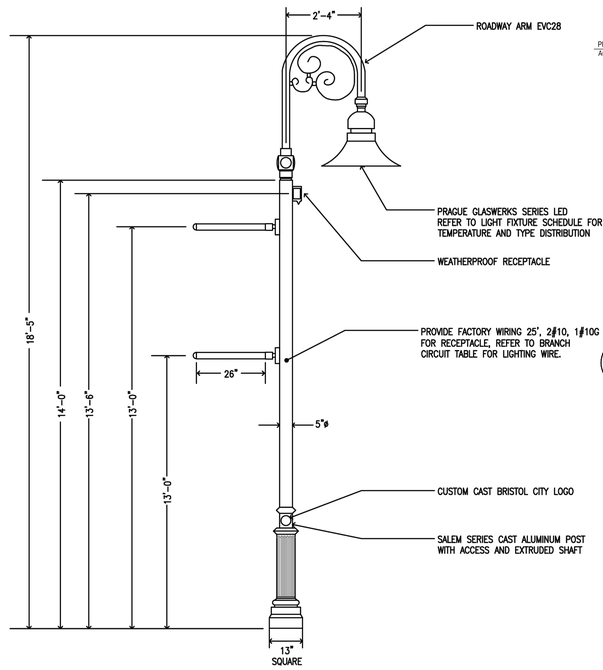
TO BE USED WHEN CURB INLET IS CONSTRUCTED WHERE NO CURBING OA ANY TYPE EXISTS OR IS PROPOSED.

TO BE USED WHEN CURB INLET IS CONSTRUCTED IN A LINE OF PLAIN CONCRETE CURBING, DOWELED CONCRETE CURBING, OR STONE CURBING, 6" HIGH.

CURB INLET - PLAIN CURB TYPE

7 CURB INLET DETAIL (CITY OF BRISTOL)

NTS



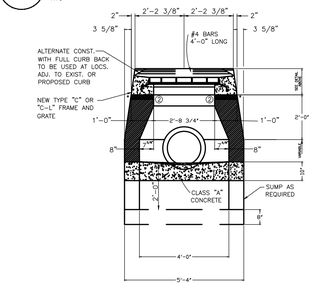
TYPE - A

8 LIGHT POLE (WITH LIGHT FIXTURE)

NTS

9 TYPE 'C-L' CATCH BASIN DETAIL (CITY OF BRISTOL)

NTS

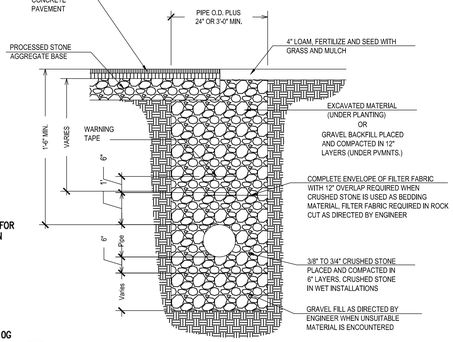


SECTION A-A

TYPE "C OR "C-L" CATCH BASIN

10 SECTION A-A CATCH BASIN (CITY OF BRISTOL)

NTS



11 TYPICAL STORM TRENCH DETAIL

NTS

12 LIGHT POLE FOOTINGS

NTS

Prepared by:

benesch

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
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Bristol CONNECTICUT All Heart

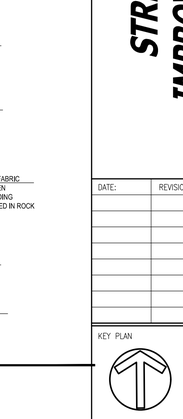
STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN

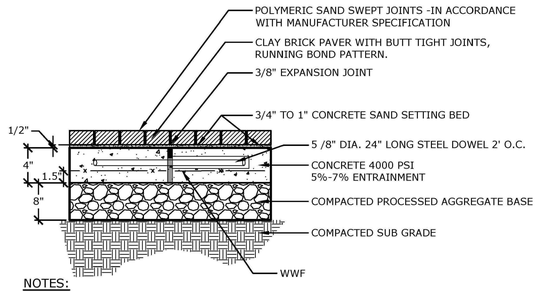


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MISCELLANEOUS DETAILS

DRAWING NO.:

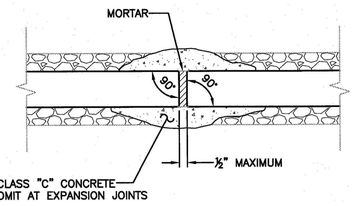
C-5.1



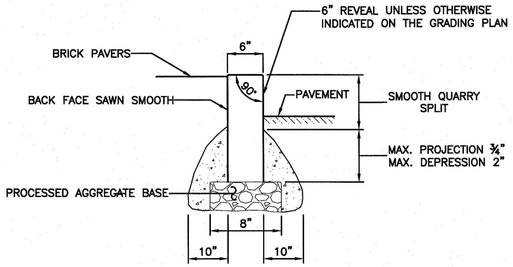
NOTES:

1. EXPANSION JOINTS 20' O.C. MAXIMUM.
2. CONCRETE BASE SHALL BE SCREEDED WITH A FLOAT FINISH AND PITCHED TO GRADE.
3. DRAINAGE RELEASE BETWEEN GRANITE CURB AND CONCRETE BASE SHALL BE CONTINUOUS ALONG FULL LENGTH OF ALL GRANITE CURBS.
4. BRICK MANUFACTURER, COLOR, FINISH & LUGS SHALL MATCH CITY OF BRISTOL STREETSCAPE STANDARDS.

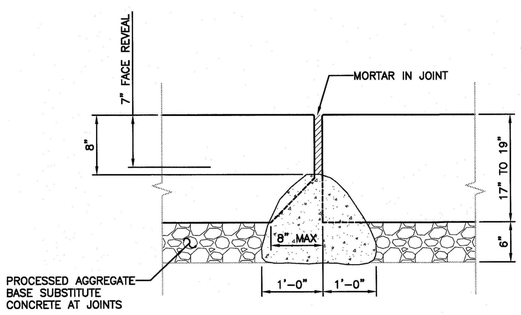
1 BRICK PAVERS
NOT TO SCALE



PLAN

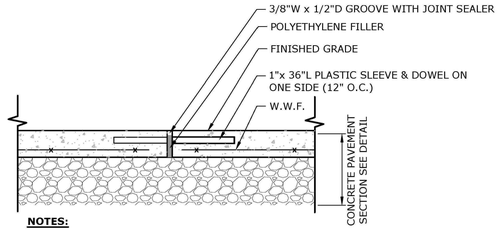


CROSS SECTION



PART ELEVATION

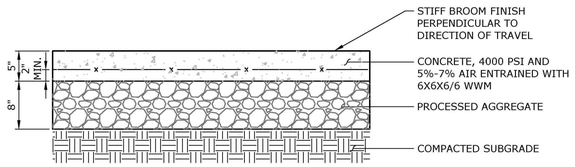
2 GRANITE CURB
NOT TO SCALE



NOTES:

1. PROVIDE PREFORMED EXPANSION JOINT AT ALL CONSTRUCTION JOINT, SAWCUT, AND OTHER LOCATIONS WHERE CONCRETE ABUTTS EXISTING CONCRETE.

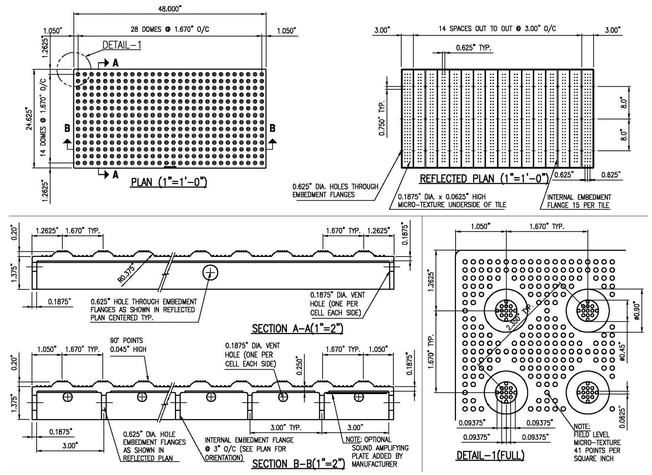
EXPANSION JOINT
NOT TO SCALE



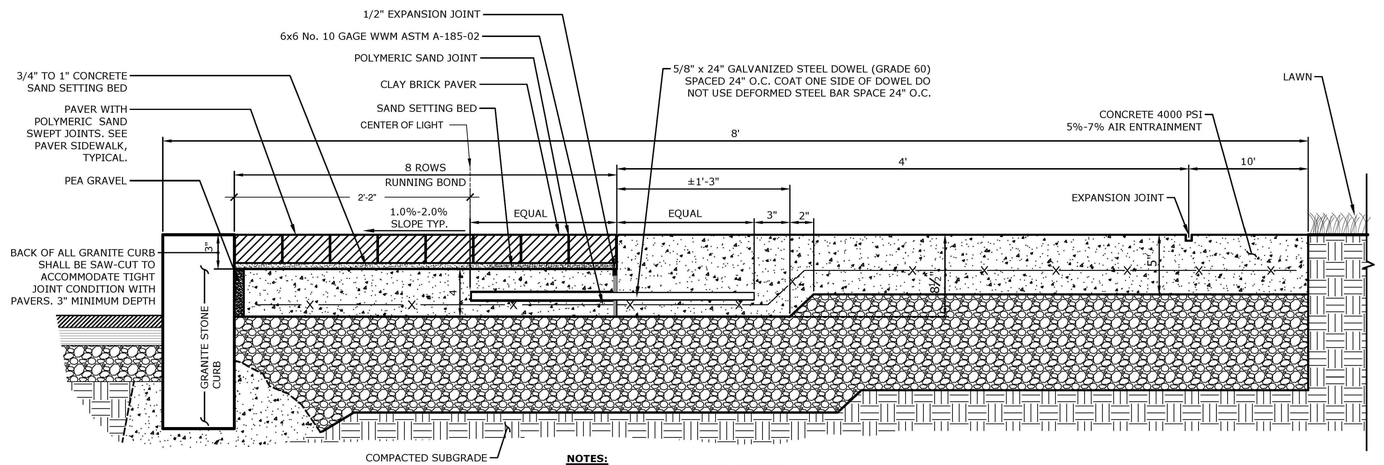
NOTES:

1. USE 5" CONCRETE OVER 8" PROCESSED AGGREGATE FOR SIDEWALKS ALONG CITY STREETS.
2. EXP. JOINTS 20' O.C. MAX CONSTRUCTION JOINTS 5' O.C. TYPICAL (SEE JOINT DETAILS)

3 CONCRETE PAVEMENT
NOT TO SCALE



5 DETECTABLE WARNING STRIP
NOT TO SCALE



NOTES:

1. EXPANSION JOINTS 20' O.C. MAXIMUM
2. CONCRETE BASE SHALL BE SCREEDED WITH A FLOAT FINISH AND PITCHED TO GRADE

4 BRICK PAVERS AGAINST GRANITE CURB
NOT TO SCALE

Prepared by:
benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd floor
Glastonbury, Connecticut 06033
860-633-8341

FHI studio
416 Asylum Street
Hartford, CT 06103
860-247-7200
fhistudio.com

Prepared for:
Bristol CONNECTICUT All Heart

STREETSCAPE
BRISTOL, CT
NORTH MAIN STREET

DATE:	REVISION:

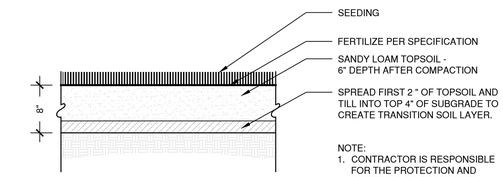
KEY PLAN

PROJECT NO.: 1949
SCALE: AS NOTED
DATE: 03/29/2023 REVIEW
DRAWN BY: MD
CHECKED BY: PB

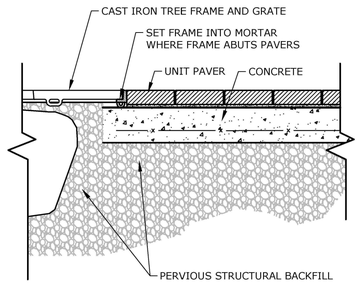
DETAILS

DRAWING NO.:
L-3.0

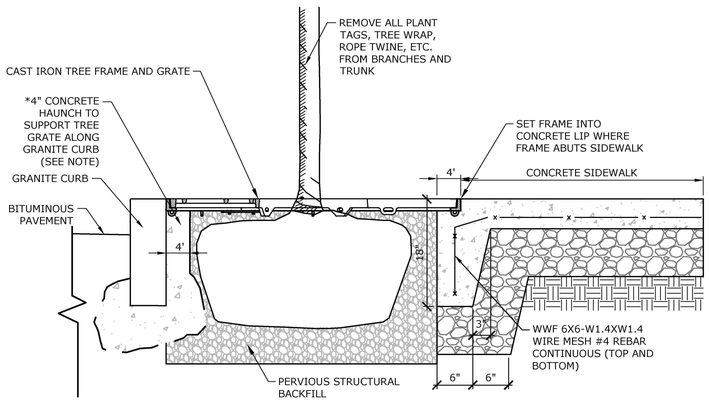
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1 TOPSOIL/LAWN
SCALE 1" = 1'-0"



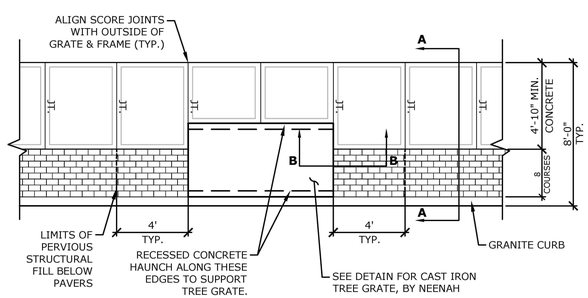
SECTION B-B
NOT TO SCALE



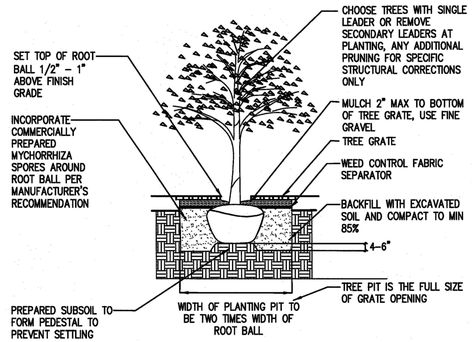
SECTION A-A
NOT TO SCALE

NOTE:
1. TROWEL 4" HAUNCH SMOOTH TO ACCEPT TREE GRATE FRAME

2. TREES SHALL RECEIVE A MINIMUM OF 18 CY OF CU STRUCTURAL SOIL AT A DEPTH OF 24"

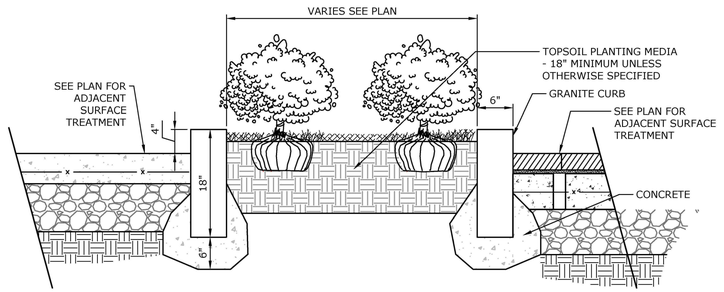


2 TYPICAL TREE GRATE PIT
NOT TO SCALE

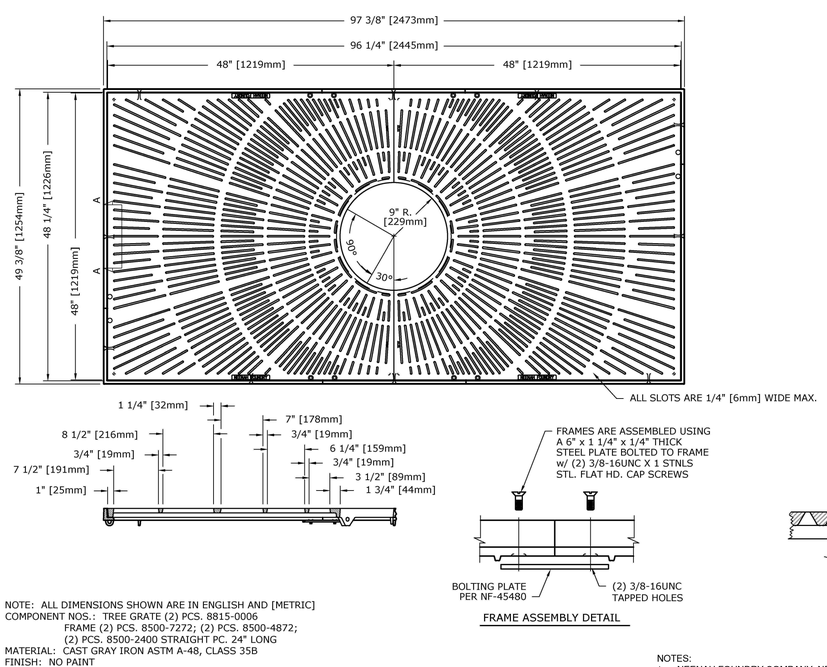


NOTES: REMOVE TREE WRAP, WIRE, STAKES, ANY SYNTHETIC MATERIAL. CUT AWAY MINIMUM OF TOP HALF OF BURLAP &/OR WIRE BASKET. SCARIFY ALL PLANT PITS PRIOR TO PLANTING

3 TREE PLANTING IN TREE GRATE
NOT TO SCALE



4 RAISED PLANTING BED
NOT TO SCALE



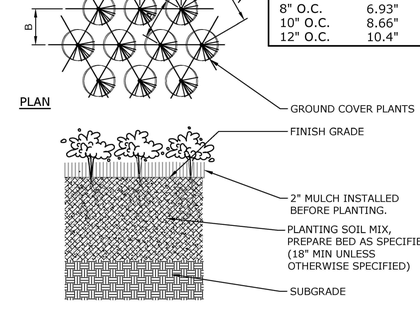
NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND [METRIC]
COMPONENT NOS.: TREE GRATE (2) PCS. 8815-0006
FRAME (2) PCS. 8500-7272; (2) PCS. 8500-4872;
(2) PCS. 8500-2400 STRAIGHT PC. 24" LONG
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NO PAINT
WEIGHT: 800# PER SET WAS T676

FRAME ASSEMBLY DETAIL

SECTION B-B
SCALE 1:4

NOTES:
1. NEENAH FOUNDRY COMPANY, NEENAH, WI 54956.
2. MODEL: R-8815-A

5 TREE GRATE W/ 18" OPENING
NOT TO SCALE



PLAN

GROUND COVER SPACING TABLE

PLANT SPACING "A"	ROW SPACING "B"	NO. OF PLANTS	AREA UNIT
6" O.C.	5.2"	4.61	1 SQ. FT.
8" O.C.	6.93"	2.6	1 SQ. FT.
10" O.C.	8.66"	1.66	1 SQ. FT.
12" O.C.	10.4"	1.15	1 SQ. FT.

SECTION

NOTES:
1. ALL GROUND COVER TO BE PLANTED IN TRIANGULAR PATTERN. SEE DETAIL PLAN AND GROUND COVER SPACING TABLE.

6 PERENNIAL PLANTING
NOT TO SCALE

Prepared by:
benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd floor
Glastonbury, Connecticut 06033
860-633-8341

FHI studio
416 Asylum Street
Hartford, CT 06103
860-247-7200
fhistudio.com

Bristol CONNECTICUT All Heart

STREETSCAPE

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN

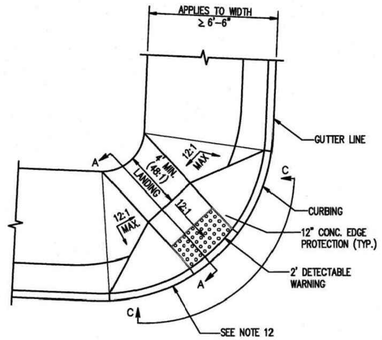
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SCALE: AS NOTED CHECKED BY: PB
DATE: 03/29/2023 REVIEW

DETAILS

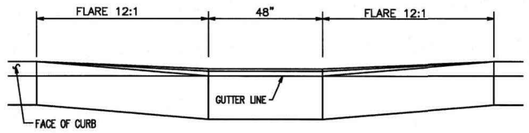
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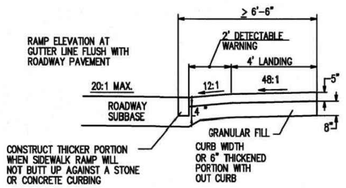
DRAWING NO: 19



1 DIAGONAL SIDEWALK RAMP
NOT TO SCALE



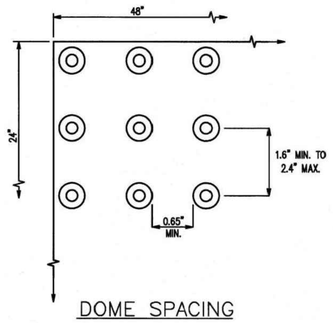
SECTION C–C



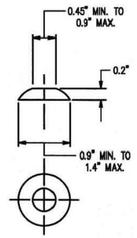
SECTION A–A

GENERAL NOTES:

1. MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP OR ACCESSIBLE ROUTE SHOULD NOT EXCEED 20:1.
2. CARE SHALL BE TAKEN TO ASSURE UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND ABRUPT GRADE CHANGES.
3. ALL RAMPS SHALL BE CONSTRUCTED OF CLASS "C" CONCRETE IN ACCORDANCE WITH CONNECTICUT DOT FORM 816 STANDARD SPECIFICATIONS ARTICLE M.03.01.
4. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE ALONG ACCESSABLE ROUTES SHALL BE STABLE, FIRM AND SLIP RESISTANT IN COMPLIANCE WITH ADAAG SECTION 4.5.
5. DIAGONAL SIDEWALK RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN HE MARKINGS, EXCLUDING ANY FLARED SIDES.
6. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION/CONTRACTION JOINT OR DUMMY JOINT. 12:1 MAY NOT BE ACHEIVABLE DUE TO SIDEWALK GRADE. IN RECOGNITION OF THIS, A MINIMUM LIMIT OF 15' FOR A PARALLEL RAMP SHALL BE USED. REMOVAL SHALL NOT BE FURTHER THAN 2' FROM THE PROPOSED RAMP UNLESS DIRECTED BY THE ENGINEER.
7. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' UNLESS OTHERWISE NOTED.
8. CURBING WITHIN THE LIMITS OF THE NEW SIDEWALK RAMP SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF CONNECTICUT DOT FORM 816.
9. INSTALL THE EDGE OF THE DETECTABLE WARNING 6" FROM THE EDGE OF ROAD.
10. TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES, ALIGN DOMES ON A SQUARE GRID. IN THE DIRECTION OF PEDESTRIAN TRAVEL.



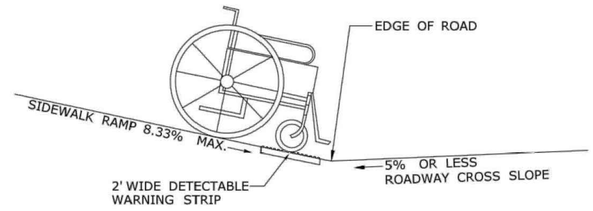
DOME SPACING



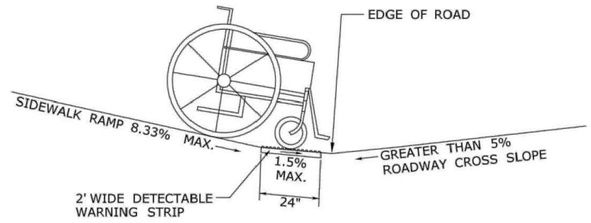
DOME SECTION

GENERAL NOTES:

1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.

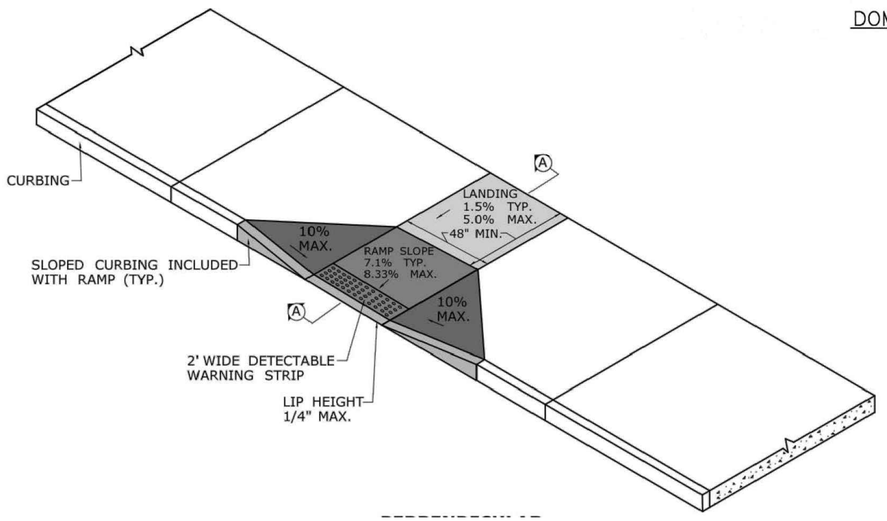


SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF 5% OR LESS

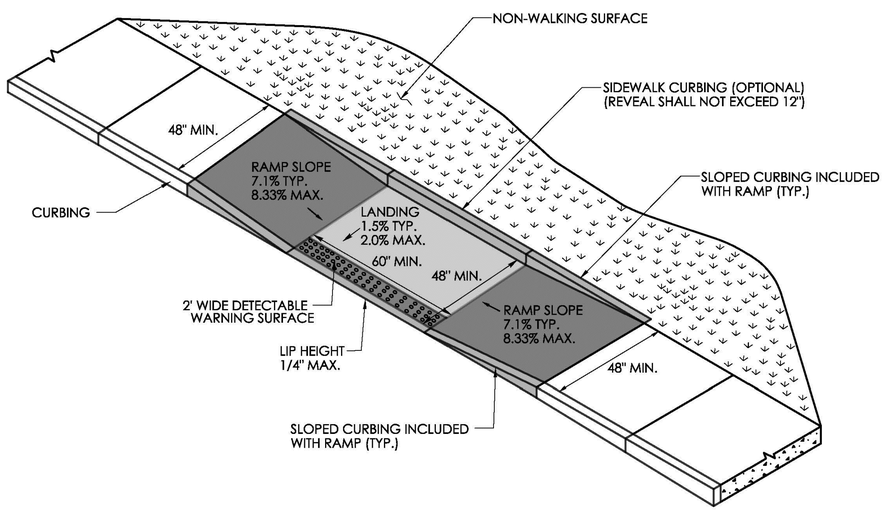


SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF GREATER THAN 5%

WALK
SED.
THE



2 PERPENDICULAR SIDEWALK RAMP
NOT TO SCALE



3 PARALLEL SIDEWALK RAMP
NOT TO SCALE

Prepared by:
benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd floor
Glastonbury, Connecticut 06033
860-633-8341

FHI studio
416 Asylum Street
Hartford, CT 06103
860-247-7200
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Bristol CONNECTICUT All Heart

STREETSCAPE

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

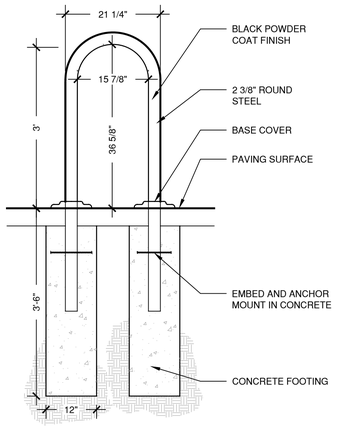
KEY PLAN

PROJECT NO.: 1949 DRAWN BY: MD
SCALE: AS NOTED CHECKED BY: PB
DATE: 03/29/2023 REVIEW

DETAILS

DRAWING NO.:
L-3.2

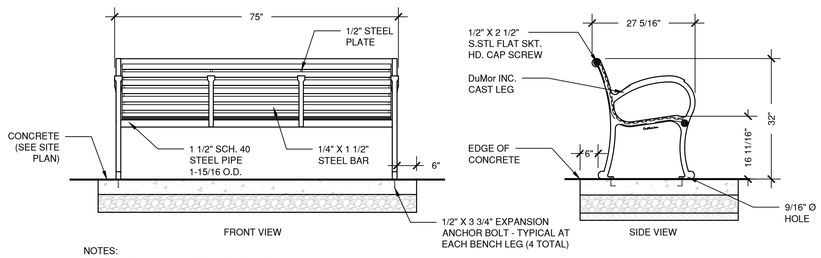
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1 LOOP BIKE RACK

SCALE 3/4" = 1'-0"

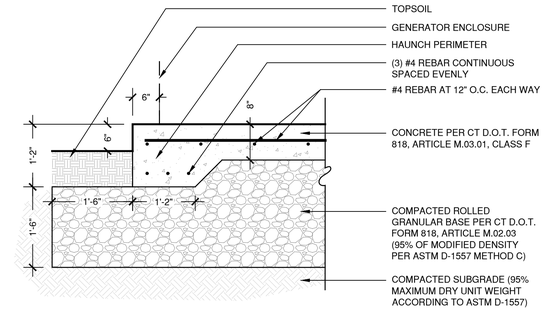
MANUFACTURER: DUMOR
PRODUCT: 83 SERIES



NOTES:
1. BENCH SHALL BE STEEL, MODEL 160 AS MANUFACTURED BY DUMOR SITE FURNISHINGS, BENCH COLOR: BLACK.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR APPROVAL.

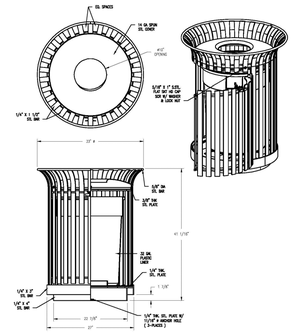
2 6' STEEL BENCH

NOT TO SCALE



4 CONCRETE BUS SHELTER PAD

SCALE 3/4" = 1'-0"

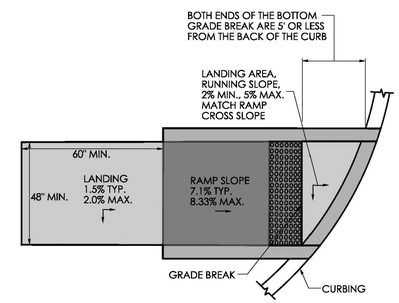


NOTES:
1. ALL STEEL MEMBERS COATED WITH ZINC RICH EPOXY THEN FINISHED WITH POLYESTER POWDER COATING.
2. FASTEN WITH 1/2" X 3-3/4" EXPANSION BOLTS.

7 TRASH RECEPTACLE

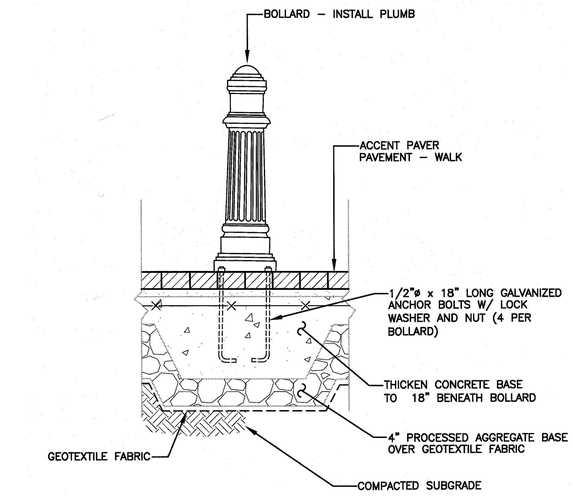
NOT TO SCALE

MANUFACTURER: DUMOR
MODEL: 157-32-FTO



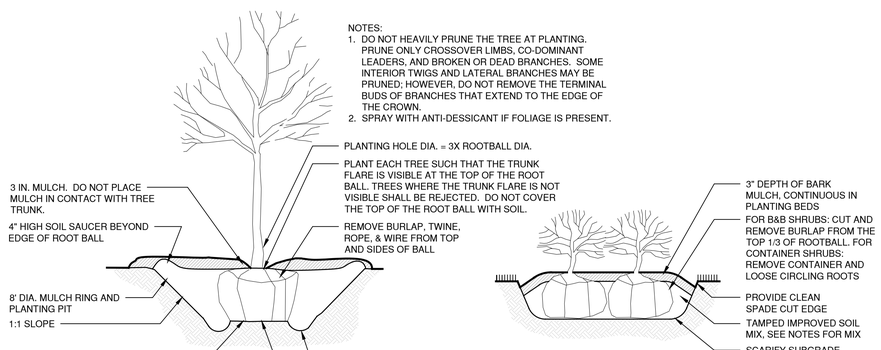
3 DETECTABLE WARNING SURFACE LOCATION AT DRIVEWAY APRON

NOT TO SCALE



5 STEEL BOLLARD

NOT TO SCALE



NOTES:
1. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
2. SPRAY WITH ANTI-DESSICANT IF FOLIAGE IS PRESENT.

NOTE:
PLANTING EXCAVATION TO BE CONTINUOUS FOR THE ENTIRE LENGTH AND WIDTH OF THE PLANTING BED

6 TREE / SHRUB PLANTING

SCALE 1" = 1'-0"

Prepared by:
benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd floor
Glastonbury, Connecticut 06033
860-633-8341

FHI studio
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Bristol CONNECTICUT All Heart

STREETSCAPE

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN

PROJECT NO.: 1949
SCALE: AS NOTED
DATE: 03/29/2023 REVIEW

DRAWN BY: MD
CHECKED BY: PB

DETAILS

DRAWING NO.:
L-3.3

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ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #

	SHEET NO.	TITLE	APPROVAL DATE
✓	TR-1000_01	GENERAL CLAUSES (TEST PROCEDURES)	1/2014
✓	TR-1001_01	TRENCHING & BACKFILLING, ELECTRICAL CONDUIT	4/2012
✓	TR-1002_01	TRAFFIC CONTROL FOUNDATIONS	1/2014
✓	TR-1010_01	CONCRETE HANDHOLE	4/2014
✓	TR-1102_01	PEDESTALS, PEDESTRIAN SIGNALS	4/2012
	TR-1105_01	TRAFFIC SIGNALS AND CABLE ASSIGNMENTS	8/2018
✓	TR-1107_01	PEDESTRIAN PUSH BUTTON	8/2018
✓	TR-1108_01	CONTROLLERS	5/2013
✓	TR-1111_01	LOOP VEHICLE DETECTOR AND SAWCUT	4/2014
	TR-1113_01	CONTROL CABLE	4/2014
	TR-1114_01	BONDING & UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAILS	8/2018

	SHEET NO.	TITLE	APPROVAL DATE
	TR-1205_01	DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS	8/2018
✓	TR-1208_01	SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS	8/2018
✓	TR-1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS	6/2017
	TR-1210_01	PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS	OBSOLETE
	TR-1210_02	PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS	OBSOLETE
✓	TR-1210_03	SPECIAL DETAILS & TYPICAL PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS	OBSOLETE
✓	TR-1210_04	PAVEMENT MARKING LINES AND SYMBOLS	8/2018
	TR-1210_05	PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	4/2017
	TR-1210_06	PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	8/2018
	TR-1210_07	PAVEMENT MARKINGS FOR EXIT RAMPS	4/2017
✓	TR-1210_08	PAVEMENT MARKINGS FOR NON FREEWAYS	8/2018
✓	TR-1210_09	PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RR CROSSINGS	4/2017
✓	TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS	8/2018
✓	TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	8/2018

STANDARD SHEETS SHALL BE USED WITH STANDARD SPECIFICATIONS

REV.	DATE	REVISION DESCRIPTION
4	4-2017	REMOVED TR-1210_01 TO TR-1210_03. ADDED TR-1210_04 TO TR-1210_09
3	4-2014	REMOVED TR-1111_02.
2	1-2014	REMOVED TR-1103_01.
1	4-2012	RENUMBERED TR-1107_02 TO TR-1114_01. REMOVED TR-1116_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: 8/16/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD_DGN.DGN Model: TR-01-STD_INDEX

SUBMITTED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

TRAFFIC STANDARD SHEET INDEX

STANDARD SHEET NO.:

TR-STD_INDEX

*ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT # **REVISED OR ADDED

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-211_01	ANTI-TRACKING PAD	11-09-22
✓	HW-286_01	DRAINAGE TRENCH EXCAVATION	11-09-22
	HW-506 01a	ENDWALLS	11-09-22
	HW-506 01b	STEEL REINFORCING FOR ENDWALLS	11-09-22
	HW-506_02	TYPE "D-G" & "L" ENDWALLS	11-09-22
	HW-506_03	ENDWALLS FOR PIPE - ARCH	11-09-22
✓	HW-586_01	CATCH BASIN AND DROP INLET TYPES "C" AND "C-L" STRUCTURES	11-09-22
✓	HW-586_02	CATCH BASIN (TYPES "C" AND "C-L") FOR DOUBLE GRATE TYPE I STRUCTURES	11-09-22
✓	HW-586_03	CATCH BASIN (TYPES "C" AND "C-L") FOR DOUBLE GRATE TYPE II STRUCTURES	11-09-22
	HW-586_04	PRECAST CATCH BASIN AND ROUND STRUCTURE	11-09-22
✓	HW-586_05	PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE I	11-09-22
✓	HW-586_06	PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE II	11-09-22
✓	HW-586 07a	CATCH BASIN TYPE "C" AND "C-L" TOPS	11-09-22
	HW-586 07b	CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE I TOPS	11-09-22
	HW-586 07c	CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE II TOPS	11-09-22
✓	HW-586 07d	CATCH BASIN TYPE "C-G" AND "C-M" BARRIER CURB TOPS	11-09-22
✓	HW-586_08	CATCH BASIN FRAMES AND GRATES	11-09-22
	HW-586_09	CATCH BASIN LOCK DOWN TOPS	11-09-22
✓	HW-586_10a	MANHOLE FRAME AND COVER	11-09-22
	HW-586_10b	MANHOLE FRAME AND GRATE	11-09-22
	HW-586_10c	REINFORCED PRECAST CONCRETE MANHOLE	11-09-22
	HW-586_10d	MANHOLE NON-PRECAST CONCRETE UNIT	11-09-22
	HW-686_01a	CONCRETE PIPE CONNECTION SHEET 1	11-09-22
	HW-686_01b	CONCRETE PIPE CONNECTION SHEET 2	11-09-22
	HW-686_02a	DRAINANGE PIPE ENDS SHEET 1 [CORRUGATED METAL PIPE]	11-09-22
	HW-686_02b	DRAINAGE PIPE ENDS SHEET 2 [CONCRETE PIPE]	11-09-22
	HW-751_01	UNDERDRAINS AND UNDERDRAIN OUTLETS	11-09-22
	HW-803_01	PAVED APRONS	11-09-22
	HW-811_01	CONCRETE CURBING	11-09-22
✓	HW-813_01	GRANITE STONE TRANSITION CURBING	11-09-22
✓	HW-813_02	STONE CURBING	11-09-22
	HW-815_01	BITUMINOUS CONCRETE CURBING	11-09-22

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-821_01a	TRANSITION - 45" F-SHAPE TO 45" VERTICAL SHAPE SHEET 1	11-09-22
	HW-821_01b	TRANSITION - 45" F-SHAPE TO 45" VERTICAL SHAPE SHEET 2	11-09-22
	HW-821_01c	TRANSITION - 45" F-SHAPE TO 45" VERTICAL SHAPE SHEET 3	11-09-22
	HW-821_02a	45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1	11-09-22
	HW-821_02b	45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2	11-09-22
	HW-821_03a	TRANSITION - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 1	11-09-22
	HW-821_03b	TRANSITION - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 2	11-09-22
	HW-821_03c	TRANSITION - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 3	11-09-22
	HW-821_03d	TRANSITION - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 4	11-09-22
	HW-821_03e	TRANSITION - 32" JERSEY SHAPE TO 45" F-SHAPE	11-09-22
	HW-821_04a	MERRITT PARKWAY NARROW MEDIAN BARRIER	11-09-22
	HW-821_04b	MERRITT PARKWAY - 2' WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	11-09-22
	HW-821_05a	TRANSITION - 45" F-SHAPE TO 54" VERTICAL SHAPE SHEET 1	11-09-22
	HW-821_05b	TRANSITION - 45" F-SHAPE TO 54" VERTICAL SHAPE SHEET 2	11-09-22
	HW-821_06	54" VERTICAL SHAPE BARRIER	11-09-22
	HW-821_07	MISCELLANOUS DETAILS FOR BARRIER TRANSITIONS	11-09-22
	HW-821_08a	F-SHAPE CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM	11-09-22
	HW-821_08b	F-SHAPE CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM - REINF.	11-09-22
	HW-821_09a	SINGLE SLOPE CONC. BARRIER CURB (20"x42") TRANS. FOR THRIE-BEAM	11-09-22
	HW-821_09b	SINGLE SLOPE CONC. BARRIER CURB (20"x42") TRANS. FOR THRIE-BEAM - REINF.	11-09-22
	HW-821_10a	VERTICAL FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM	11-09-22
	HW-821 10b	VERTICAL FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM REINF.	11-09-22
	HW-821_11a	42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 1	11-09-22
	HW-821_11b	42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 2	11-09-22
	HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	11-09-22
	HW-822 02a	TEMPORARY TRAFFIC BARRIER - DETAILS	11-09-22
	HW-822 02b	TEMPORARY TRAFFIC BARRIER (BOLTED)	11-09-22
	HW-822 02c	TEMPORARY TRAFFIC BARRIER & TEMPORARY TRAFFIC BARRIER (PINNED)	11-09-22
	HW-905_01	STONE WALL FENCE	11-09-22
	HW-906_01	WIRE FENCE	11-09-22

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OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CTDOT STANDARD SHEET

STANDARD SHEET TITLE:
HIGHWAY STANDARD SHEET INDEX

STANDARD SHEET NO.:
1 OF 2

PLOTTED DATE: 11/15/2022

DRAWING NO: 23

*ONLY STANDARD SHEETS MARKED WITH AN " ✓ " ARE IN THIS PROJECT #

**REVISED OR ADDED

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE	11-09-22
	HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	11-09-22
	HW-910_03	METAL BEAM RAIL (TYPE MD-B 350) GUIDERAIL	11-09-22
	HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	11-09-22
	HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	11-09-22
	HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	11-09-22
	HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	11-09-22
	HW-910_08	R-B 350 BRIDGE ATTACHMENT TRAILING END	11-09-22
	HW-910 09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	11-09-22
	HW-910 09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	11-09-22
	HW-910 10	METAL BEAM RAIL 8" x 6" BOX BEAM	11-09-22
	HW-910 11	CURVED GUIDERAIL TREATMENT DETAIL	11-09-22
	HW-910_12a	MERRITT PARKWAY GUIDERAIL LEADING END ATTACHMENTS AND SYSTEMS 2&3	11-09-22
	HW-910_12b	MERRITT PARKWAY GUIDERAIL HARDWARE DETAILS	11-09-22
	HW-910_12c	MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENTS	11-09-22
	HW-910_12d	MERRITT PARKWAY MEDIAN GUIDERAIL AND END ANCHOR	11-09-22
	HW-910_13a	THRIE-BEAM METAL BEAM RAIL HARDWARE	11-09-22
	HW-910_13b	THRIE-BEAM TRANSITIONS	11-09-22
	HW-910_14a	THRIE-BEAM 350 BRIDGE ATTACHMENT	11-09-22
	HW-910_14b	THRIE-BEAM 350 GUIDERAIL TRANSITION TO R-B 350 GUIDERAIL	11-09-22
	HW-910_15	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	11-09-22
	HW-910_16	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	11-09-22
	HW-910_17	R-B TERMINAL SECTION	11-09-21
	HW-910_18	METAL BEAM RAIL (TYPE MD-I) GUIDERAIL	11-09-22
	HW-910_19a	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE I	11-09-22
	HW-910_19b	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE II	11-09-22
	HW-910_19c	METAL BEAM RAIL (MODIFIED TYPE R-I) SYSTEMS 2 AND 3	11-09-22
	HW-910_20	MASH W-BEAM HARDWARE	11-09-22
	HW-910_21	METAL BEAM RAIL (R-B MASH) GUIDERAIL	11-09-22
	HW-910_22	METAL BEAM RAIL (MD-B MASH) GUIDERAIL	11-09-22
	HW-910_23	METAL BEAM RAIL (R-B MASH) HALF & QUARTER POST SPACING GUIDERAIL	11-09-22
	HW-910_24	METAL BEAM RAIL SPAN SECTION TYPES II AND III	11-09-22
	HW-910_25	METAL BEAM RAIL TRANSITION 350 TO MASH	11-09-22

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-910_26	THRIE-BEAM ATTACHMENT HARDWARE	11-09-22
	HW-910_27	THRIE-BEAM ATTACHMENT	11-09-22
	HW-910_28	R-B MASH BRIDGE ATTACHMENT TRAILING END	11-09-22
	HW-911_01	R-B END ANCHORAGE TYPE I AND II	11-09-22
	HW-911_02	MD-B END ANCHORAGE TYPE I	11-09-22
	HW-911_03	ANCHOR IN EARTH CUT SLOPE & ANCHOR IN ROCK CUT SLOPE	11-09-22
	HW-911_05	MERRITT PARKWAY GUIDERAIL END ANCHORS	11-09-22
	HW-913_01a	CHAIN LINK FENCE	11-09-22
	HW-913_01b	CHAIN LINK FENCE HARDWARE	11-09-22
	HW-913_02	CHAIN LINK FENCE GATES	11-09-22
	HW-918_01a	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 1	11-09-22
	HW-918_01b	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 2	11-09-22
	HW-918_01c	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 3	11-09-22
✓	HW-921_01	CONCRETE SIDEWALKS	11-09-22
✓	HW-922_01	BITUMINOUS CONCRETE SIDEWALK AND BITUMINOUS CONCRETE DRIVEWAY	11-09-22
✓	HW-924_01	CONCRETE DRIVEWAY RAMPS	11-09-22
✓	HW-949_01a	LANDSCAPE PLANTING	11-09-22
✓	HW-949_01b	TREE STAKING	11-09-22
	HW-1800_01	GRADING PLAN FOR IMPACT ATTENUATION SYSTEMS (FLARED AND TANGENTIAL)	11-09-22
	HW-1800 02	GRADING PLAN FOR IMPACT ATTENUATION SYSTEMS (MEDIAN/GORE)	11-09-22

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SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

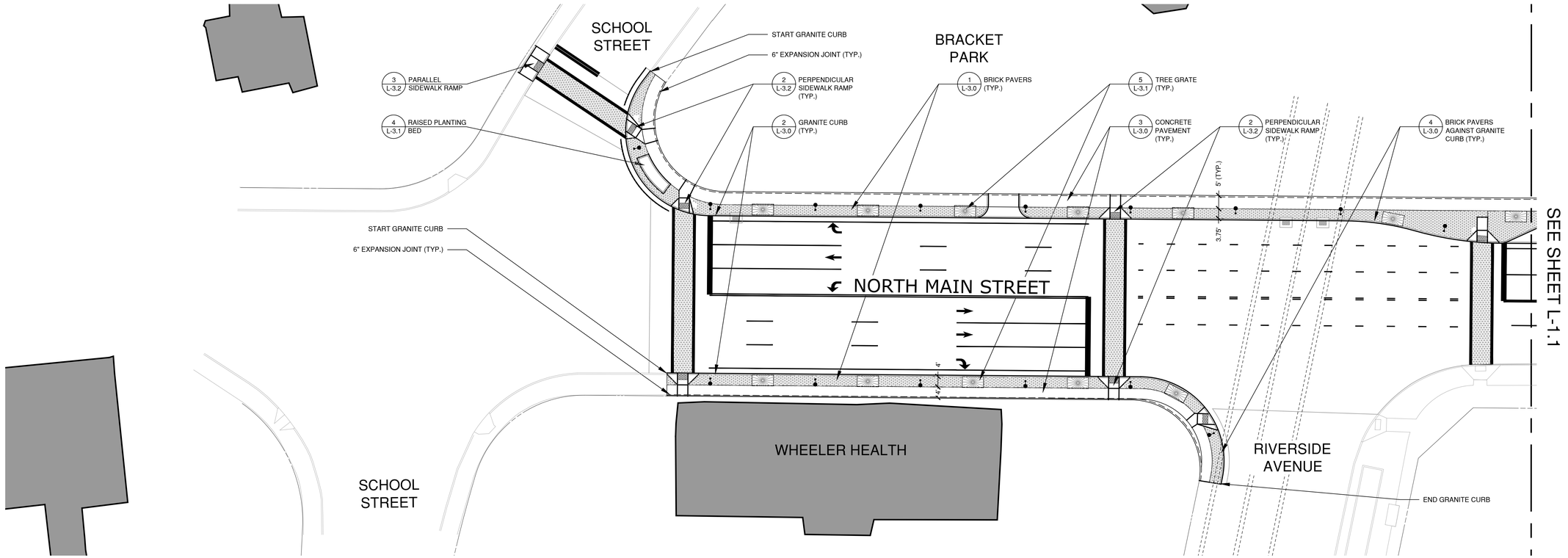
CTDOT STANDARD SHEET

STANDARD SHEET TITLE:
HIGHWAY STANDARD SHEET INDEX

STANDARD SHEET NO.:
2 OF 2

PLOTTED DATE: 11/22/2022

DRAWING NO: 24



LAYOUT NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL AND FEDERAL REGULATIONS.
2. MATERIALS AND CONSTRUCTION PROCEDURES SHALL COMPLY WITH CT DOT FORM 816/817 AND THE CITY OF BRISTOL SPECIFICATIONS.
3. CONTRACTOR TO SECURE ALL NECESSARY TRADE PERMITS.
4. NEW PAVEMENT TO MEET LINE & GRADE OF EXISTING PAVEMENTS.
5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONSTRUCTION ACTIVITIES.
6. LOAM AND SEED ALL DISTURBED AREAS NOT COVERED BY OTHER IMPROVEMENTS.
7. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED.
8. ALL LOCATIONS WHERE EXISTING CURBING, BITUMINOUS CONCRETE ROADWAY OR CONCRETE ROADWAY OR CONCRETE SIDEWALK ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO PROVIDE A CLEAN, SMOOTH EDGE. TACK COAT EXPOSED EDGES OF EXISTING CONCRETE PRIOR TO PLACEMENT OF NEW BITUMINOUS CONCRETE PAVEMENT.
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10. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE VERTICAL AND HORIZONTAL POSITION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
11. CONTRACTOR SHALL CONTROL DUST CAUSED BY HIS OPERATIONS BY APPLYING WATER OR DUST PALLIATIVE, OTHER THAN CALCIUM CHLORIDE.
12. CONTRACTOR SHALL CONTROL NOISE TO AS GREAT AN EXTENT AS POSSIBLE. ALL POWER EQUIPMENT USED DURING CONSTRUCTION SHALL BE EQUIPPED WITH MUFFLERS.
13. MANUFACTURED ITEMS SHALL BE INSTALLED, CONNECTED AND CLEANED ACCORDING TO THE MANUFACTURERS DIRECTIONS.
14. PRIOR TO PROJECT CLOSE-OUT, CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS FROM SITE. ALSO, ANY DAMAGE TO FIELD OR FACTORY APPLIED FINISHES SHALL BE REPAIRED.
15. EXPANSION AND SCORE JOINTS FOR NEW CONCRETE WALKS SHALL BLEND TO MATCH EXISTING PATTERNS. CONTRACTOR TO ARRANGE TIMELY ON-SITE CONFERENCES WITH LANDSCAPE ARCHITECT TO APPROVE LAYOUT OF JOINT PATTERNS.
16. PROVIDE EXPANSION JOINTS FOR NEW CONCRETE PAVING AT ALL CURBS, TREE GRATES, BUILDING WALLS, SITE WALLS, STAIRS, LIGHT POLE BASES, MANHOLES, GRATES/VAULTS, EXISTING CONCRETE PAVING, STOP LIGHTS, FIRE HYDRANTS AND ALL OTHER FIXED MATERIALS. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 25 FEET.
17. A DIGITAL CAD FILE CAN BE PROVIDED TO THE CONTRACTOR FOR THE LAYOUT OF SITE IMPROVEMENTS IN THE FIELD.

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	BUILDING	
	CURB	
	CONCRETE PAVEMENT	
	PAVERS	
	EXPANSION JOINT	
	CONTROL JOINT	
	LIGHT	
	SIGN	
	BENCH	
	DETAIL 1 / SHEET L-5.0 DETAIL NAME	

20 0 20 40
1" = 20'

Prepared by:
benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd floor
Glastonbury, Connecticut 06033
860-633-8341

FHI studio
416 Asylum Street
Hartford, CT 06103
860-247-7200
fhistudio.com

Prepared for:
Bristol CONNECTICUT All Heart

STREETSCAPE

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

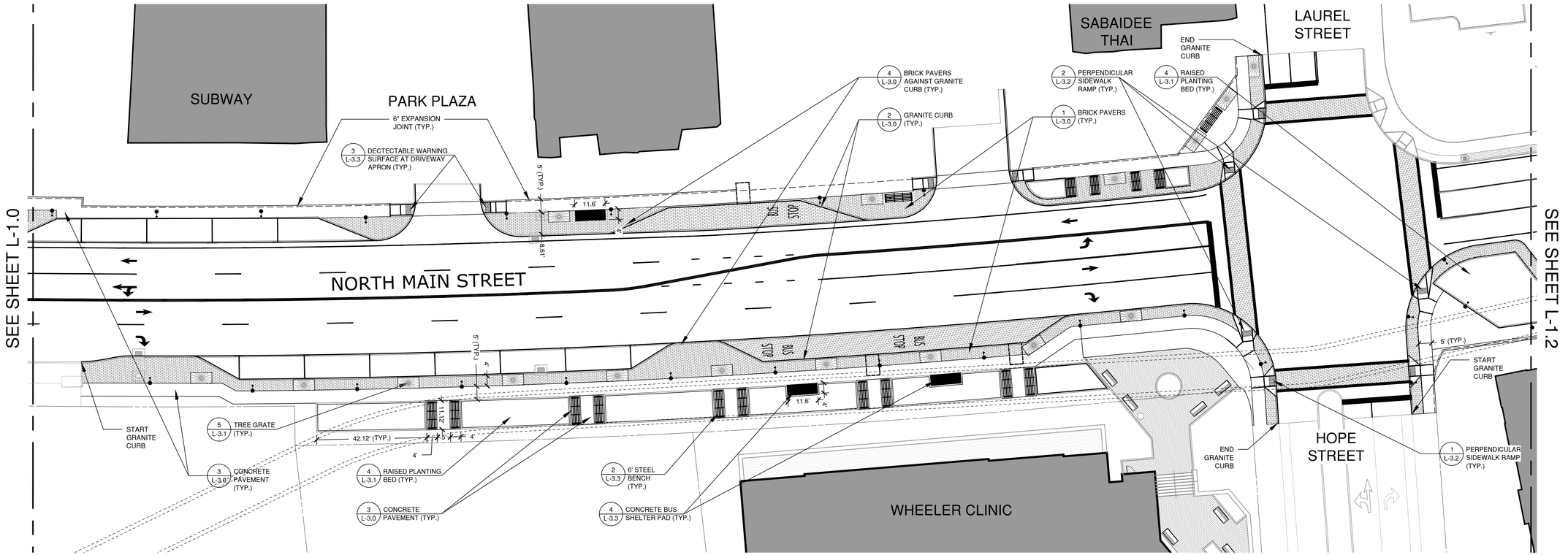
KEY PLAN

PROJECT NO.: 1949 DRAWN BY: MD
SCALE: AS NOTED CHECKED BY: PB
DATE: 03/29/2023 REVIEW

SITE PLAN

DRAWING NO.:
L-1.0

C:\Users\mdelha\FHI Studio\1949 North Main Street Streetscape, Bristol CT - General\Dwg\1949-SitePlan.dwg 3/29/2023 11:37:29 AM mdelha



LAYOUT NOTES

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6. LOAM AND SEED ALL DISTURBED AREAS NOT COVERED BY OTHER IMPROVEMENTS.
7. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED.
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EXISTING		PROPOSED
	PROPERTY LINE	
	BUILDING	
	CURB	
	CONCRETE PAVEMENT	
	PAVERS	
	EXPANSION JOINT	
	CONTROL JOINT	
	LIGHT	
	SIGN	
	BENCH	

DETAIL 1 DETAIL NAME
SHEET L-5.0

20 0 20 40
1" = 20'

Prepared by:
benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd floor
Glastonbury, Connecticut 06033
860-633-8341

FHI studio
416 Asylum Street
Hartford, CT 06103
860-247-7200
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Prepared for:
Bristol CONNECTICUT All Heart

STREETSCAPE

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

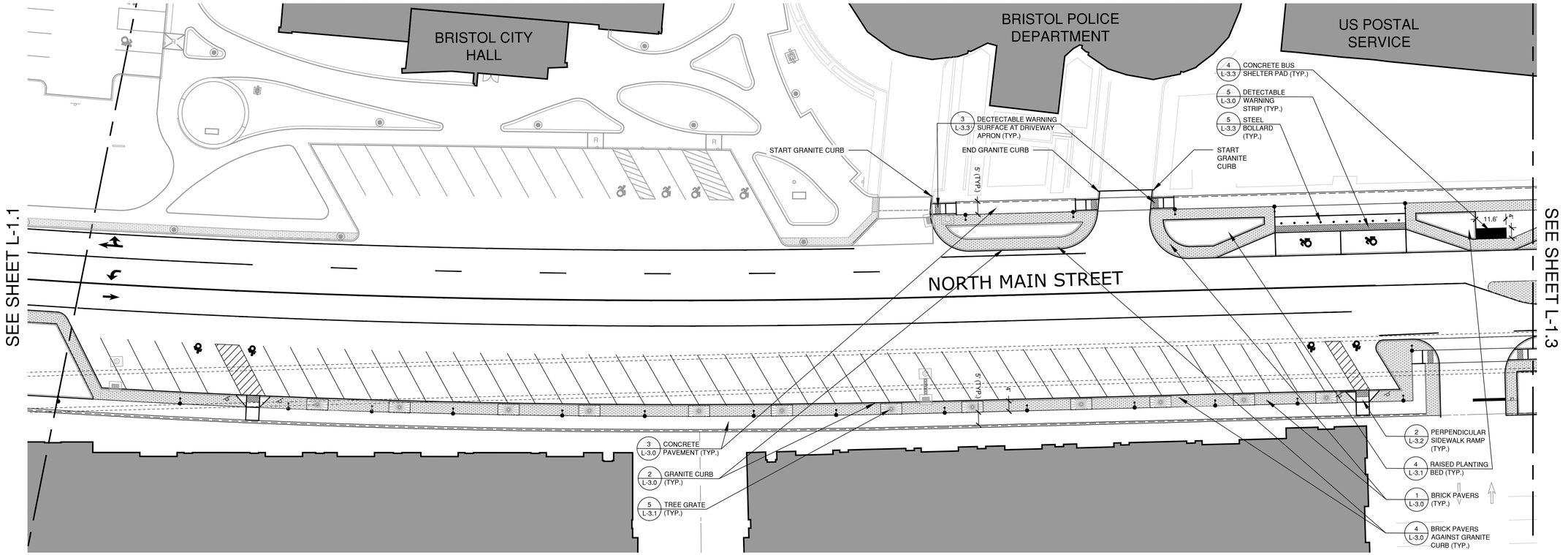
KEY PLAN

PROJECT NO.: 1949 DRAWN BY: MD
SCALE: AS NOTED CHECKED BY: PB
DATE: 03/29/2023 REVIEW

SITE PLAN

DRAWING NO.:
L-1.1

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LAYOUT NOTES

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13. MANUFACTURED ITEMS SHALL BE INSTALLED, CONNECTED AND CLEANED ACCORDING TO THE MANUFACTURERS DIRECTIONS.
14. PRIOR TO PROJECT CLOSE-OUT, CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS FROM SITE. ALSO, ANY DAMAGE TO FIELD OR FACTORY APPLIED FINISHES SHALL BE REPAIRED.
15. EXPANSION AND SCORE JOINTS FOR NEW CONCRETE WALKS SHALL BLEND TO MATCH EXISTING PATTERNS. CONTRACTOR TO ARRANGE TIMELY ON-SITE CONFERENCES WITH LANDSCAPE ARCHITECT TO APPROVE LAYOUT OF JOINT PATTERNS.
16. PROVIDE EXPANSION JOINTS FOR NEW CONCRETE PAVING AT ALL CURBS, TREE GRATES, BUILDING WALLS, SITE WALLS, STAIRS, LIGHT POLE BASES, MANHOLES, GRATES/VAULTS, EXISTING CONCRETE PAVING, STOP LIGHTS, FIRE HYDRANTS AND ALL OTHER FIXED MATERIALS. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 25 FEET.
17. A DIGITAL CAD FILE CAN BE PROVIDED TO THE CONTRACTOR FOR THE LAYOUT OF SITE IMPROVEMENTS IN THE FIELD.

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	BUILDING	
	CURB	
	CONCRETE PAVEMENT	
	PAVERS	
	EXPANSION JOINT	
	CONTROL JOINT	
	LIGHT	
	SIGN	
	BENCH	

DETAIL 1 DETAIL NAME
SHEET L-5.0

20 0 20 40
1" = 20'

Prepared by:
benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd floor
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860-633-8341

FHI studio
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860-247-7200
fhistudio.com

Prepared for:
Bristol CONNECTICUT All Heart

STREETSCAPE

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

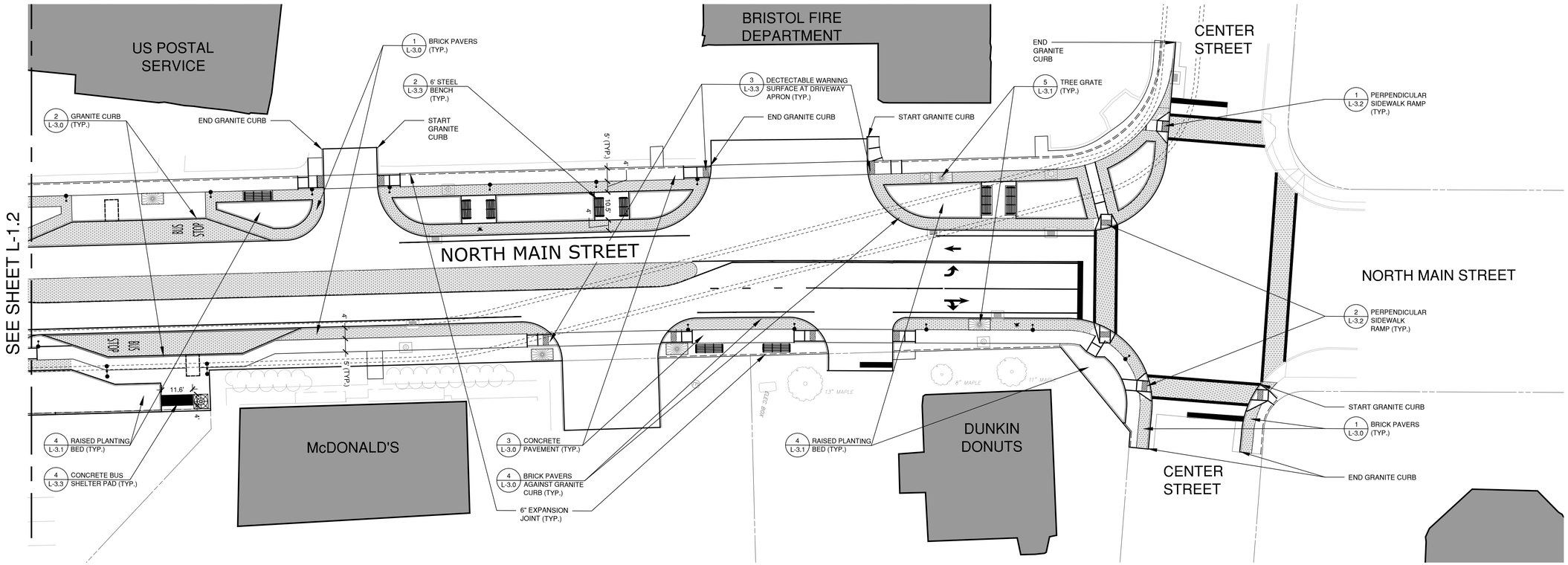
KEY PLAN

PROJECT NO.: 1949 DRAWN BY: MD
SCALE: AS NOTED CHECKED BY: PB
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SITE PLAN

DRAWING NO.:
L-1.2

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LAYOUT NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL AND FEDERAL REGULATIONS.
2. MATERIALS AND CONSTRUCTION PROCEDURES SHALL COMPLY WITH CT DOT FORM 816/817 AND THE CITY OF BRISTOL SPECIFICATIONS.
3. CONTRACTOR TO SECURE ALL NECESSARY TRADE PERMITS.
4. NEW PAVEMENT TO MEET LINE & GRADE OF EXISTING PAVEMENTS.
5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONSTRUCTION ACTIVITIES.
6. LOAM AND SEED ALL DISTURBED AREAS NOT COVERED BY OTHER IMPROVEMENTS.
7. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED.
8. ALL LOCATIONS WHERE EXISTING CURBING, BITUMINOUS CONCRETE ROADWAY OR CONCRETE ROADWAY OR CONCRETE SIDEWALK ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO PROVIDE A CLEAN, SMOOTH EDGE. TACK COAT EXPOSED EDGES OF EXISTING CONCRETE PRIOR TO PLACEMENT OF NEW BITUMINOUS CONCRETE PAVEMENT.
9. FIELD ADJUSTMENTS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE AND APPROPRIATE MUNICIPAL OFFICIALS PRIOR TO CONSTRUCTION.
10. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE VERTICAL AND HORIZONTAL POSITION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
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STREETSCAPE

BRISTOL, CT

NORTH MAIN STREET

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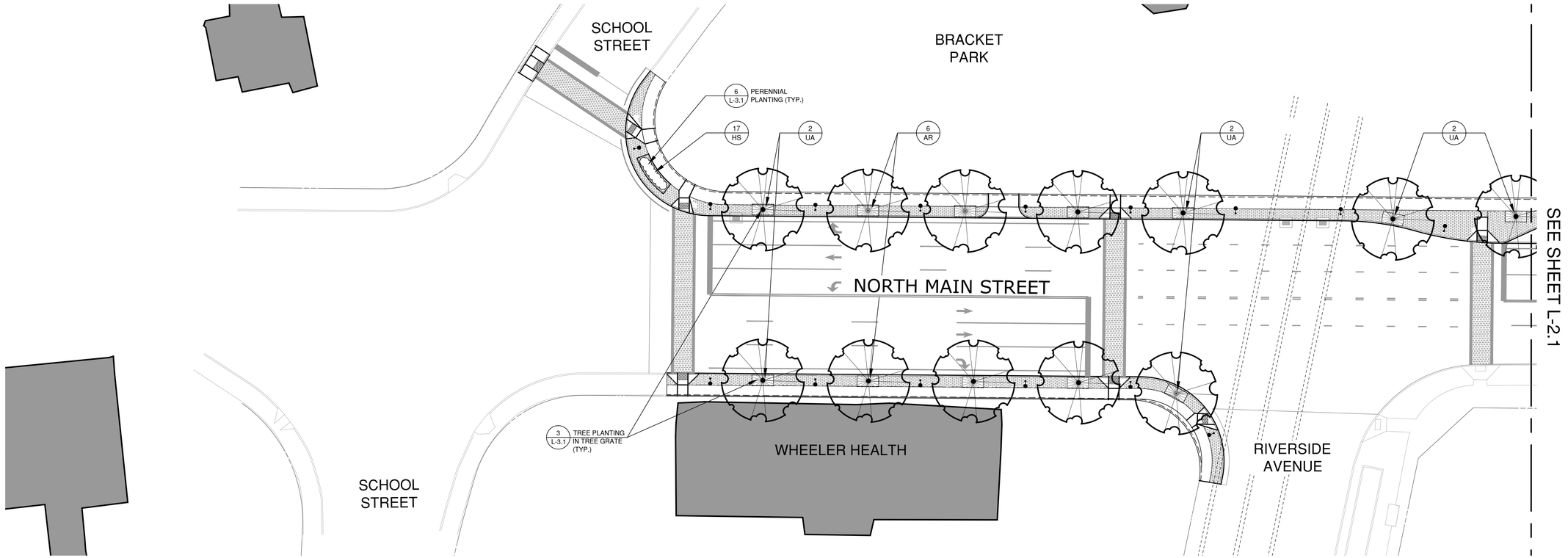
KEY PLAN

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SITE PLAN

DRAWING NO.:
L-1.3

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PLANT SCHEDULE

CATEGORY	SYM.	NO.	BOTANICAL NAME	COMMON NAME	SIZE	COND.
DECIDUOUS TREES	AG	3	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SHADBLOW	8' - 10' HT. CLUMP	B&B
	AR	13	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	3" - 3 1/2" CAL.	B&B; 5' MIN. BRANCHING HEIGHT
	PO	2	PRUNUS X OKAME	OKAME CHERRY	2" - 2 1/2" CAL.	B&B
	UA	12	ULMUS AMERICANA ' PRINCETON'	PRINCETON AMERICAN ELM	3" - 3 1/2" CAL.	B&B; 5' MIN. BRANCHING HEIGHT
	ZS	17	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	3-3 1/2" CAL.	B&B; 5' MIN. BRANCHING HEIGHT
SHRUBS	JH	41	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	BAR HARBOR CREEEPING JUNIPER	2 GAL.	CONTAINER, 5' SPACING
	RK	35	ROSA X DOUBLE KNOCKOUT	DEEP RED KNOCKOUT ROSE	18" - 24" HT.	CONTAINER
PERENNIALS / GROUNDCOVER	CA	99	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	2 GAL.	CONTAINER, 24" O.C.
	EF	1,095	EUONYMOUS FORTUNEII 'COLORATUS'	COLORATUS WINTERCREEPER	1 GAL.	CONTAINER, 18" O.C.
	HS	303	HEMEROCALLIS 'STELLA DE ORO'	STELLA DE ORO DAYLILY	1 GAL.	CONTAINER, 18" O.C.
	LS	235	LIRIOPE SPICATA	CREEPING LILYTURF	1 GAL.	CONTAINER, 18" O.C.

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LEGEND

EXISTING / PROPOSED

- BUILDING
- DECIDUOUS TREE
- MULTI-STEMMED TREE
- FLOWERING TREE
- PERENNIALS/GROUNDCOVER

SEEDING

FERTILIZE ACCORDING TO SOIL TEST OR AT THE RATE OF 1000 LBS. PER ACRE WITH 10-10-10 FERTILIZER. 40% OF THE NITROGEN TO BE A SLOW RELEASE FORM. LIME TO A PH OF 6.5 AT A RATE OF 100 LBS. PER 1000 SF.

HART'S WEAR 'N TEAR MIX (1-860-529-2537)
35% KENTUCKY BLUEGRASS
35% CREEPING RED FESCUE
20% METOLIUS PERENNIAL RYEGRASS
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A. PERENNIALS - 12" DEPTH
B. SHRUBS - 18" DEPTH

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1" = 20'

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STREETSCAPE

BRISTOL, CT

NORTH MAIN STREET

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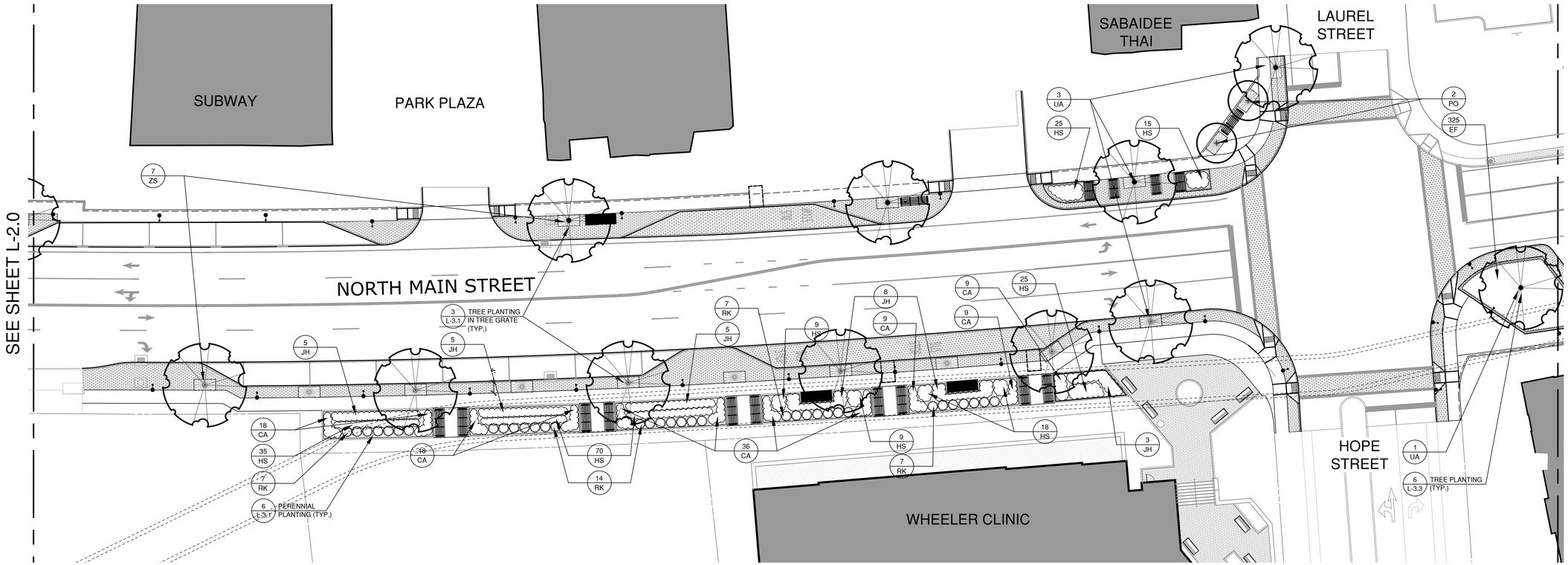
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PLANTING PLAN

DRAWING NO.:
L-2.0

DRAWING NO: 29

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SEE L-2.0 FOR PLANT SCHEDULE

LEGEND

EXISTING		PROPOSED
	BUILDING	
	DECIDUOUS TREE	
	MULTI-STEMMED TREE	
	FLOWERING TREE	
	PERENNIALS/GROUNDCOVER	

SEEDING

FERTILIZE ACCORDING TO SOIL TEST OR AT THE RATE OF 1OOO LBS. PER ACRE WITH 1O-1O-1O FERTILIZER. 4O% OF THE NITROGEN TO BE A SLOW RELEASE FORM. LIME TO A PH OF 6.5 AT A RATE OF 1OO LBS. PER 1OOO SF.

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STREETSCAPE

BRISTOL, CT

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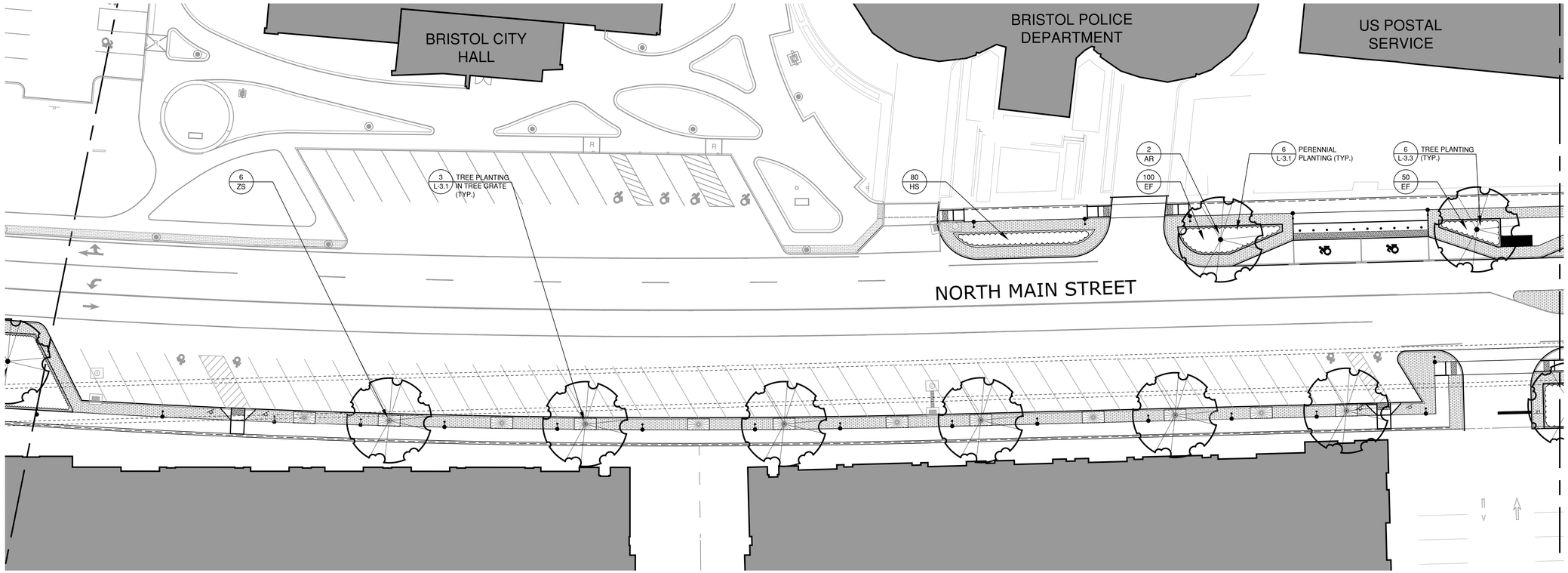
KEY PLAN

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PLANTING PLAN

DRAWING NO.:
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SEE L-2.0 FOR PLANT SCHEDULE

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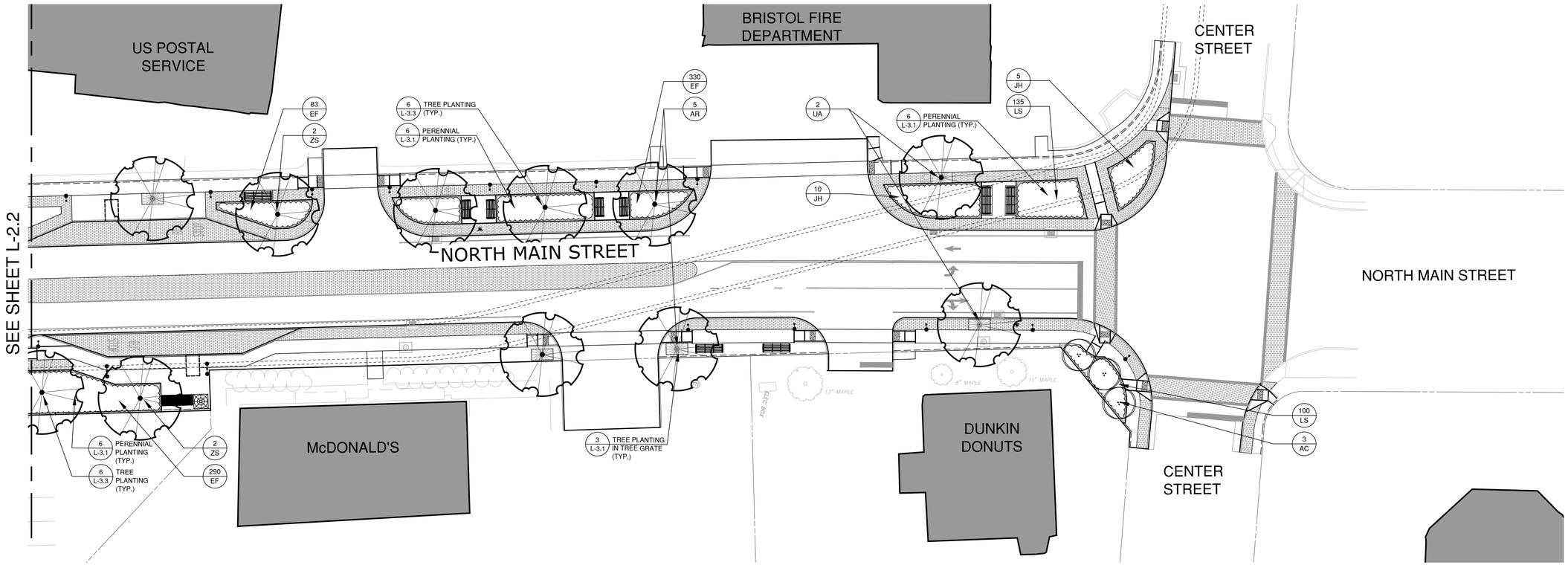
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PLANTING PLAN

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SEE L-2.0 FOR PLANT SCHEDULE

LEGEND

EXISTING		PROPOSED
	BUILDING	
	DECIDUOUS TREE	
	MULTI-STEMMED TREE	
	FLOWERING TREE	
	PERENNIALS/GROUNDCOVER	

SEEDING

FERTILIZE ACCORDING TO SOIL TEST OR AT THE RATE OF 1OOO LBS. PER ACRE WITH 1O-1O-1O FERTILIZER. 4O% OF THE NITROGEN TO BE A SLOW RELEASE FORM. LIME TO A PH OF 6.5 AT A RATE OF 1OO LBS. PER 1OOO SF.

HART'S WEAR 'N TEAR MIX (1-860-529-2537)
35% KENTUCKY BLUEGRASS
35% CREEPING RED FESCUE
20% METOLIUS PERENNIAL RYEGRASS
10% DESCHUTES PERENNIAL RYEGRASS

ALL PLANTING BEDS SHALL BE A CONTINUOUS PIT AS FOLLOWS:
A. PERENNIALS - 12" DEPTH
B. SHRUBS - 18" DEPTH

20 0 20 40
1" = 20'

Prepared by:
benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd floor
Glastonbury, Connecticut 06033
860-633-8341

FHI studio
416 Asylum Street
Hartford, CT 06103
860-247-7200
fhistudio.com

Prepared for:
Bristol CONNECTICUT All Heart

STREETSCAPE

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

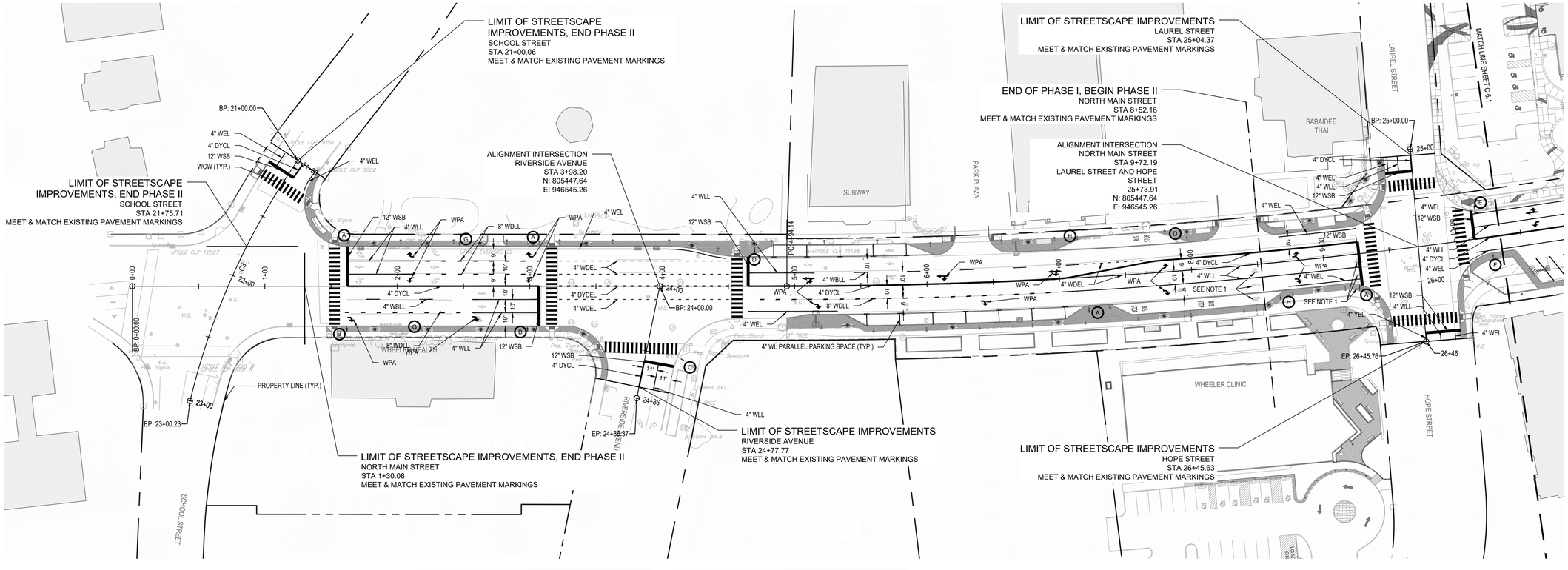
KEY PLAN

PROJECT NO.: 1949 DRAWN BY: MD
SCALE: AS NOTED CHECKED BY: PB
DATE: 03/29/2023 REVIEW

PLANTING PLAN

DRAWING NO.:
L-2.3

C:\Users\mdelha\FHI Studio\1949 North Main Street Streetscape, Bristol CT - General\Dwg\1949-SitePlan.dwg 3/29/2023 11:37:54 AM mdelha



ABBREVIATIONS:

APPS	ACCESSIBLE PARKING SPACE SYMBOL
DYDEL	DOUBLE YELLOW DOTTED EXTENSION LINE (2' DASH / 4' SPACE)
WBLL	WHITE BROKEN LANE LANE (10' DASH / 30' SPACE)
WCH	WHITE CROSS HATCH
WCW	WHITE CROSSWALK (16" BAR, 24" SPACE, 8' WIDTH)
WDEL	WHITE DOTTED EXTENSION LINE (2' DASH / 4' SPACE)
WDLL	WHITE DOTTED LANE LINE (3' DASH / 9' SPACE)
WEL	WHITE EDGE LINE
WLL	WHITE LANE LINE
WL	WHITE LINE
WPA	WHITE PAINTED ARROW
WSB	WHITE STOP BAR
YCHI	YELLOW CROSS-HATCHED ISLAND
YEL	YELLOW EDGE LINE

NOTES:
1. MILL EXISTING TURNING MOVEMENT PAVEMENT MARKINGS FOR PHASE 1.

SIGN #	CONNDOT #	SIGN
A	31-0302	ONLY ONLY
B	31-0371	ONLY
C	31-0290	ONLY ONLY
D	31-0295	ONLY
E	31-0282	ONLY

SIGN #	CONNDOT #	SIGN
F	31-5504	SPEED LIMIT 25
G	31-0630	NO PARKING ANY TIME
H	31-0614	NO PARKING BUS STOP
I	-	VIOLATORS WILL BE FINED MIN $350 HANDICAPPED PARKING PERMIT REQUIRED
J	31-0648	VAN ACCESSIBLE

Prepared by:
benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:
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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

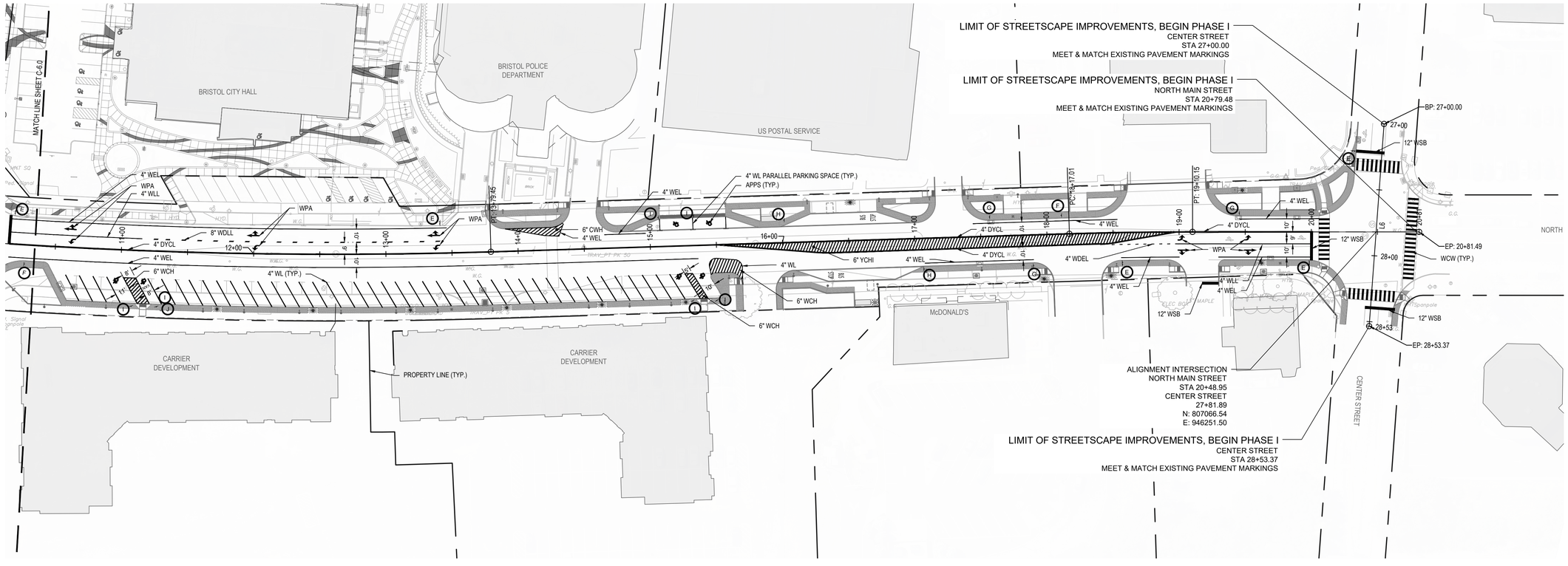
KEY PLAN

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

PROJECT NO.: **70617.08**
SCALE: **1"=40'**
DATE: **04/07/2023**
DRAWN BY: **JJD**
CHECKED BY: **RGS**

PAVEMENT MARKINGS & TRAFFIC MOVEMENT PLAN - PHASE 1

DRAWING NO.:
C-6.0



ABBREVIATIONS:

APPS	ACCESSIBLE PARKING SPACE SYMBOL
DYDEL	DOUBLE YELLOW DOTTED EXTENSION LINE (2' DASH / 4' SPACE)
WBLL	WHITE BROKEN LANE LANE (10' DASH / 30' SPACE)
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WEL	WHITE EDGE LINE
WLL	WHITE LANE LINE
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H	31-0614	NO PARKING BUS STOP
I	-	VIOLATORS WILL BE FINED MIN $350 HANDICAPPED PARKING PERMIT REQUIRED
J	31-0648	VAN ACCESSIBLE

Prepared by:

benesch

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:

Bristol CONNECTICUT All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN

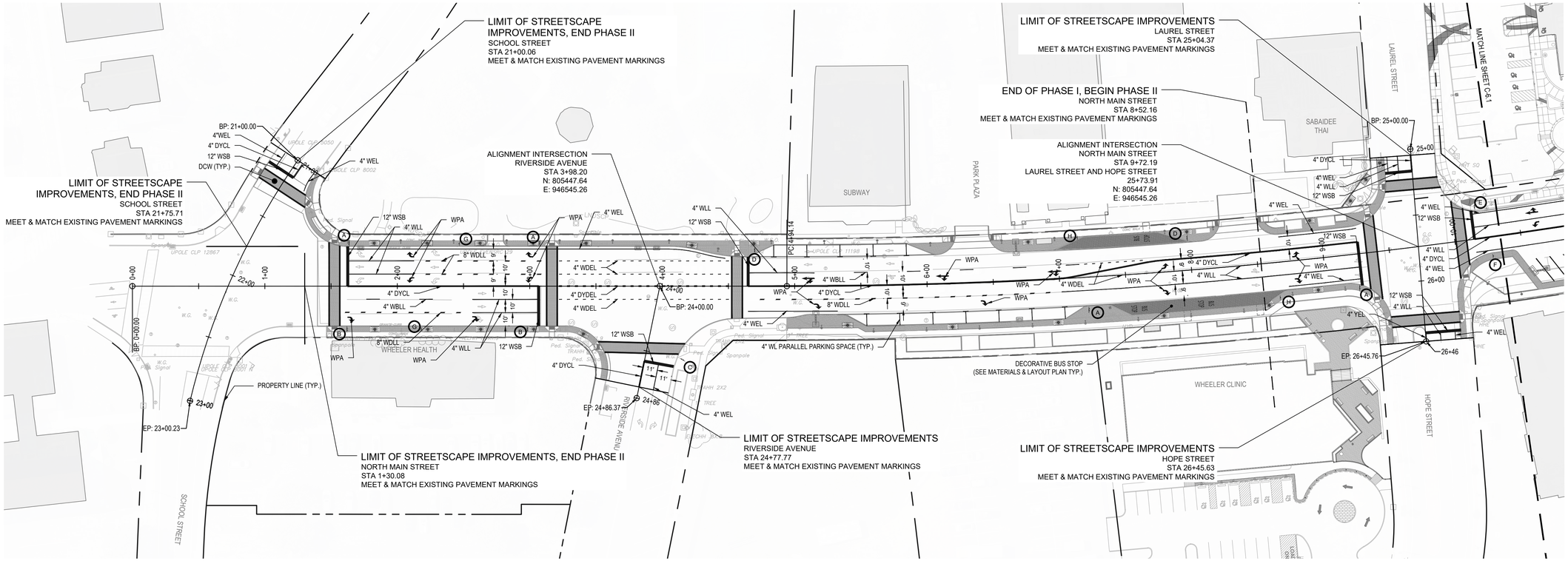
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PROJECT NO.: **70617.08**
SCALE: **1"=40'**
DATE: **04/07/2023**

DRAWN BY: **JJD**
CHECKED BY: **RGS**

PAVEMENT MARKINGS & TRAFFIC MOVEMENT PLAN - PHASE 1

DRAWING NO.:
C-6.1



ABBREVIATIONS:

APPS	ACCESSIBLE PARKING SPACE SYMBOL
DYDEL	DOUBLE YELLOW DOTTED EXTENSION LINE (2' DASH / 4' SPACE)
DCW	DECORATIVE CROSSWALK (SEE LAYOUT & MATERIALS PLAN)
WBLL	WHITE BROKEN LANE LANE (10' DASH / 30' SPACE)
WCH	WHITE CROSS HATCH
WDEL	WHITE DOTTED EXTENSION LINE (2' DASH / 4' SPACE)
WDLL	WHITE DOTTED LANE LINE (3' DASH / 9' SPACE)
WEL	WHITE EDGE LINE
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SIGN #	CONNDOT #	SIGN
A	31-0302	
B	31-0371	
C	31-0290	
D	31-0295	
E	31-0282	

SIGN #	CONNDOT #	SIGN
F	31-5504	
G	31-0630	
H	31-0614	
I	-	
J	31-0648	

Prepared by:

benesch

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:

Bristol CONNECTICUT All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN



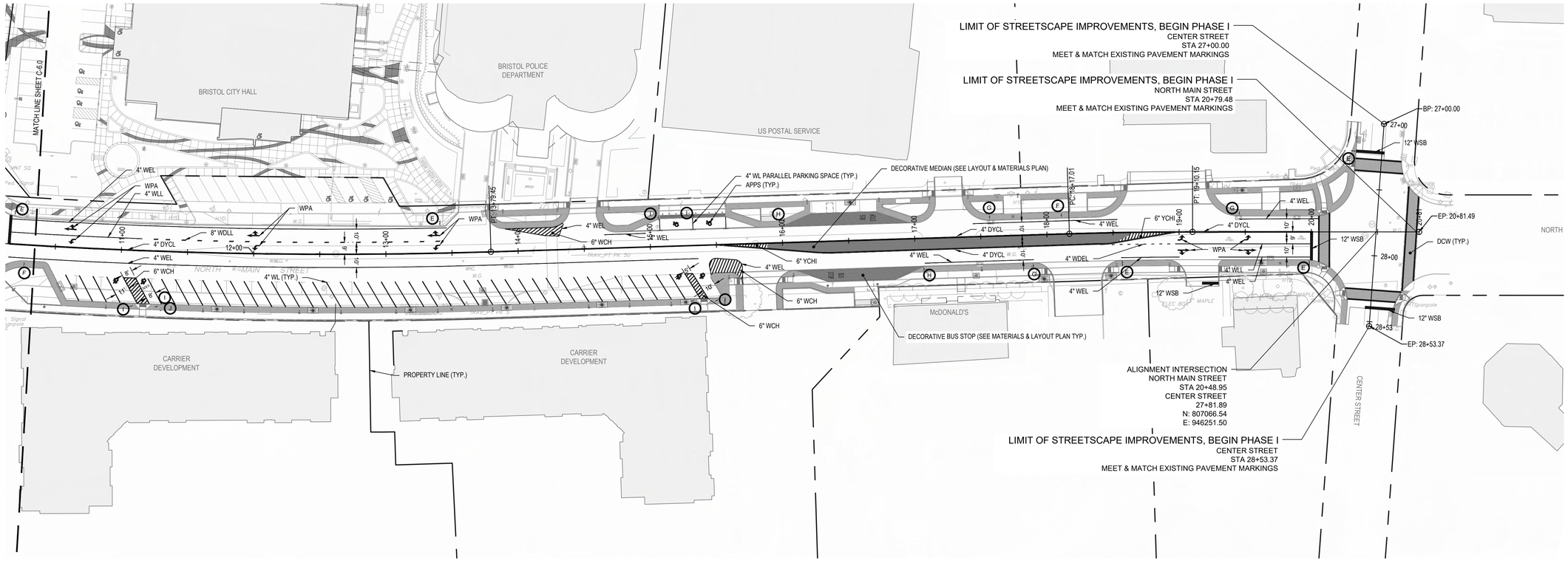
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SCALE: 1" = 40'

PROJECT NO.: **70617.08**
SCALE: **1"=40'**
DATE: **04/07/2023**

DRAWN BY: **JJD**
CHECKED BY: **RGS**

PAVEMENT MARKINGS & TRAFFIC MOVEMENT PLAN - PHASE 2

DRAWING NO.:
C-6.2



ABBREVIATIONS:

APPS	ACCESSIBLE PARKING SPACE SYMBOL
DYDEL	DOUBLE YELLOW DOTTED EXTENSION LINE (2' DASH / 4' SPACE)
DCW	DECORATIVE CROSSWALK (SEE LAYOUT & MATERIALS PLAN)
WBLL	WHITE BROKEN LANE LANE (10' DASH / 30' SPACE)
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WDEL	WHITE DOTTED EXTENSION LINE (2' DASH / 4' SPACE)
WDLL	WHITE DOTTED LANE LINE (3' DASH / 9' SPACE)
WEL	WHITE EDGE LINE
WLL	WHITE LANE LINE
WL	WHITE LINE
WPA	WHITE PAINTED ARROW
WSB	WHITE STOP BAR
YCHI	YELLOW CROSS-HATCHED ISLAND
YEL	YELLOW EDGE LINE

SIGN #	CONNDOT #	SIGN
A	31-0302	
B	31-0371	
C	31-0290	
D	31-0295	
E	31-0282	

SIGN #	CONNDOT #	SIGN
F	31-5504	
G	31-0630	
H	31-0614	
I	-	
J	31-0648	

Prepared by:

benesch

Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:

Bristol CONNECTICUT All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN



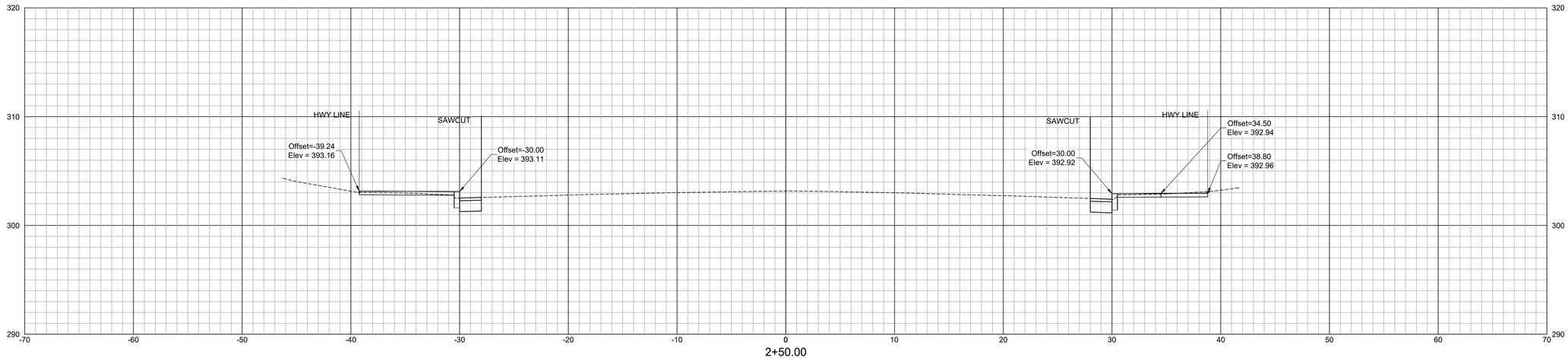
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SCALE: 1" = 40'

PROJECT NO.: **70617.08**
SCALE: **1"=40'**
DATE: **04/07/2023**

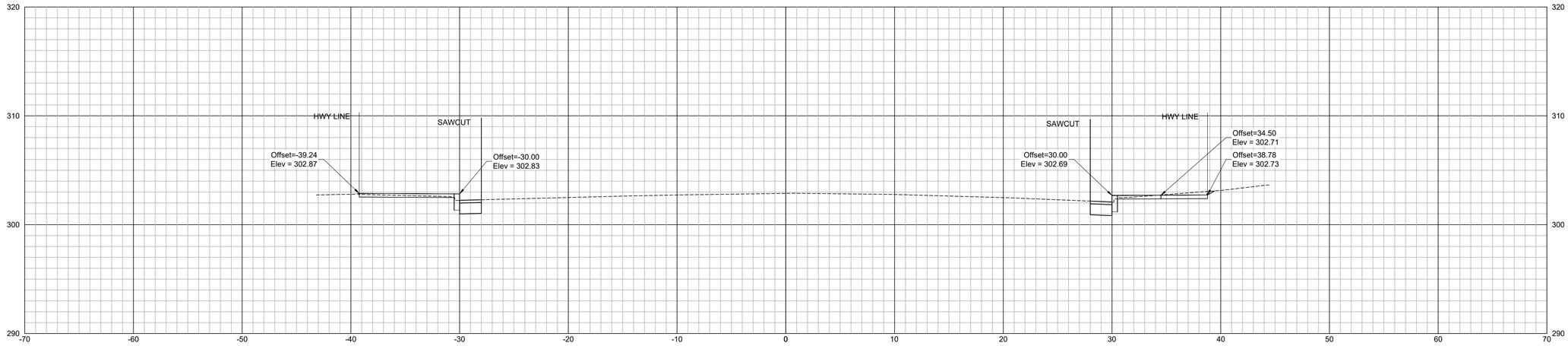
DRAWN BY: **JJD**
CHECKED BY: **RGS**

PAVEMENT MARKINGS & TRAFFIC MOVEMENT PLAN - PHASE 2

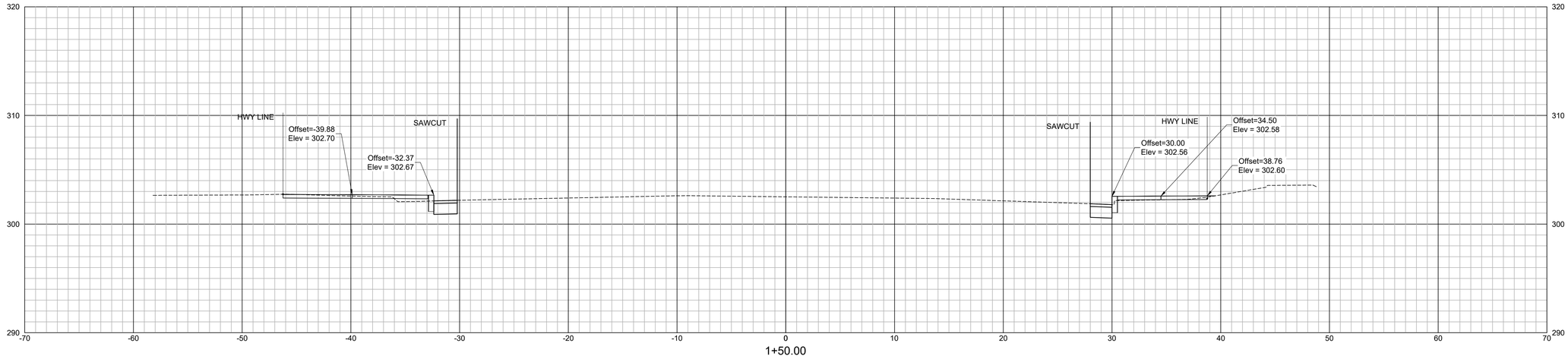
DRAWING NO.:
C-6.3



2+50.00



2+00.00



1+50.00

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benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:
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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

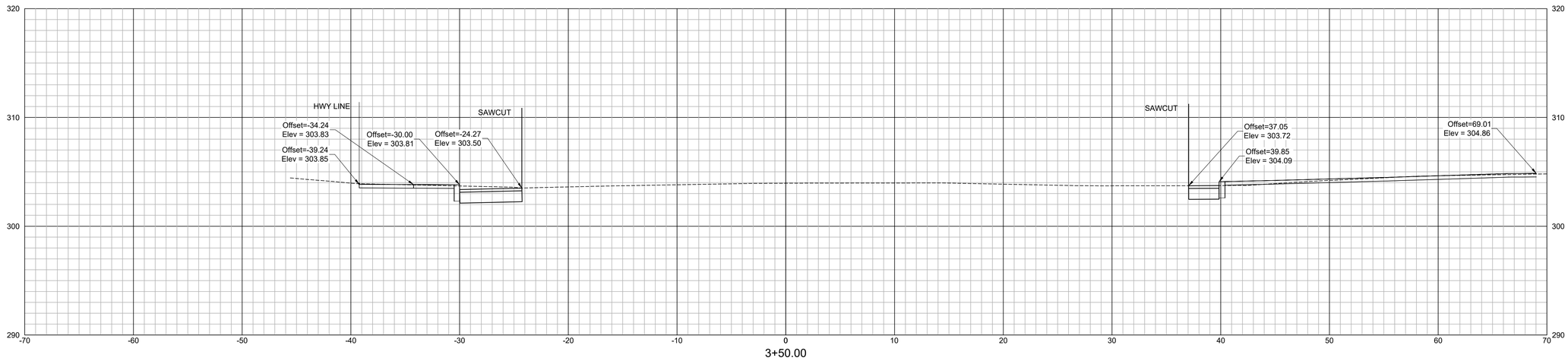
KEY PLAN

0 5' 10'
SCALE: 1" = 5'

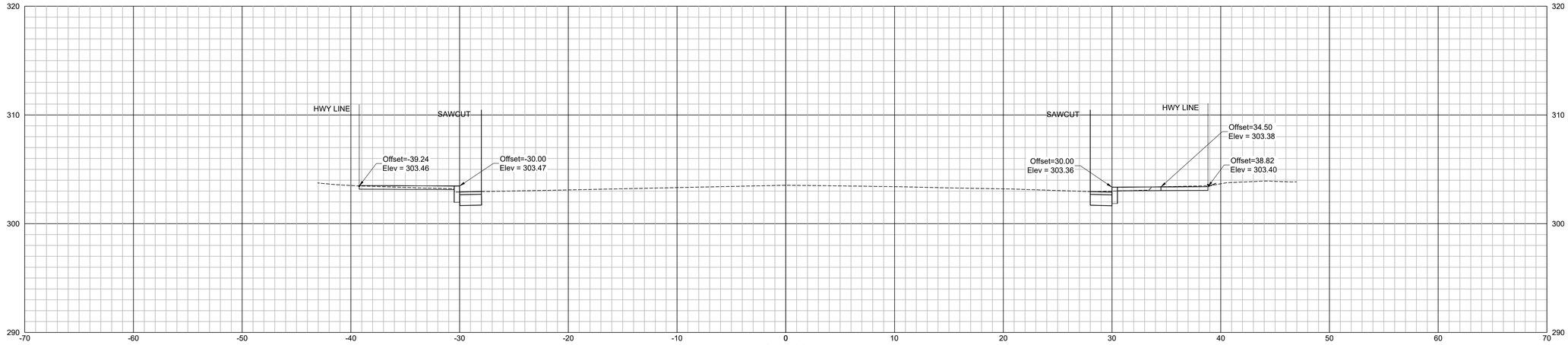
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SCALE: **1"=5"**
DATE: **04/07/2023**
DRAWN BY: **ENB**
CHECKED BY: **RGS**

ROADWAY SECTIONS

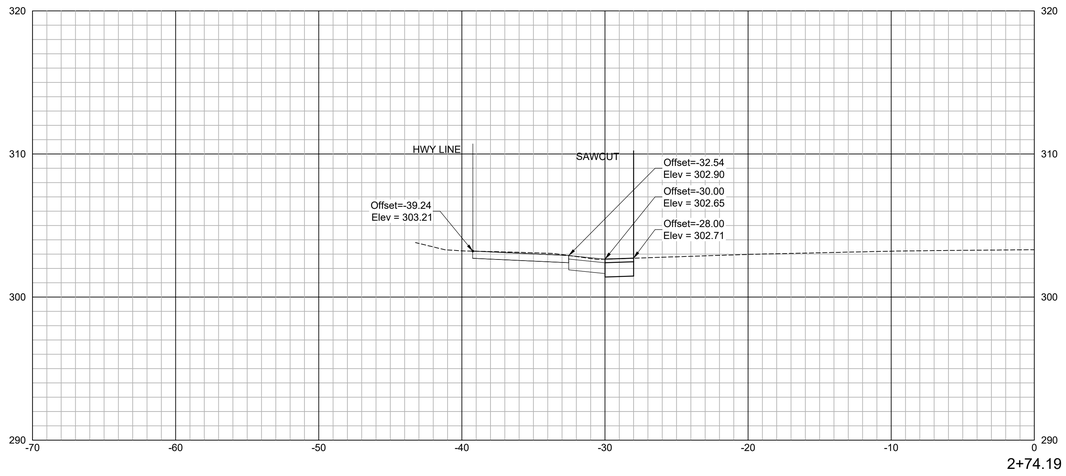
DRAWING NO.:
C-7.0



3+50.00



3+00.00



2+74.19

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benesch
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120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:
Bristol CONNECTICUT
All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

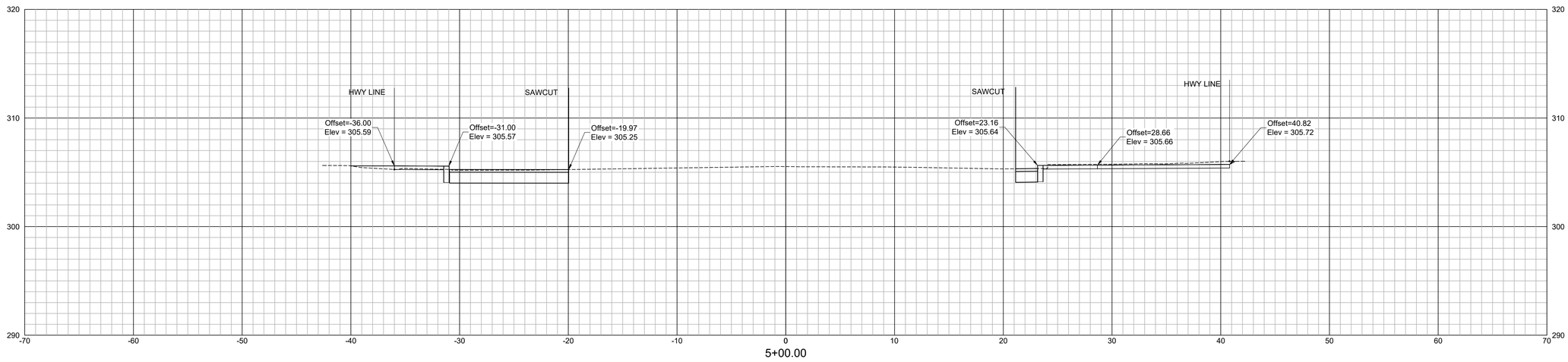
KEY PLAN

0 5' 10'
SCALE: 1" = 5'

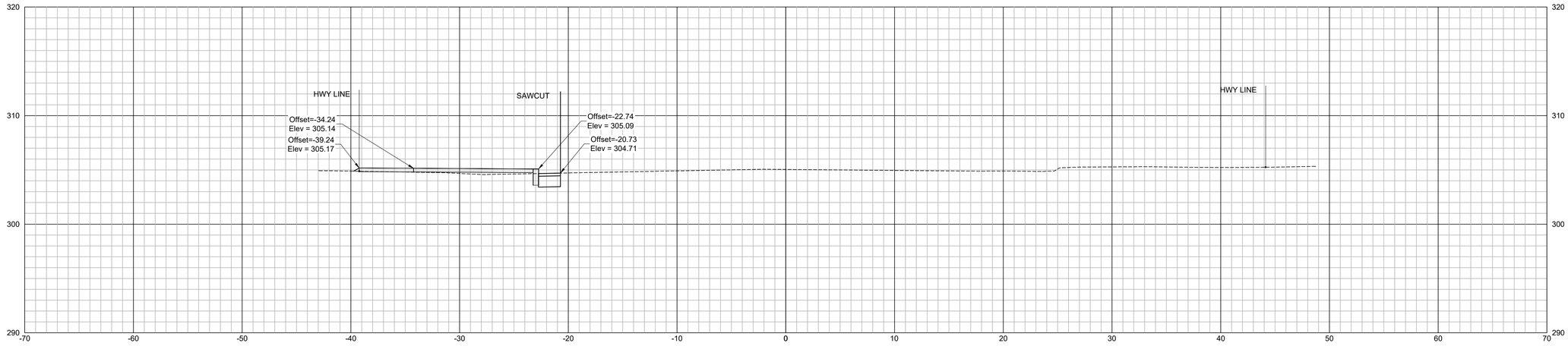
PROJECT NO.: **70617.08**
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DATE: **04/07/2023**
DRAWN BY: **ENB**
CHECKED BY: **RGS**

ROADWAY SECTIONS

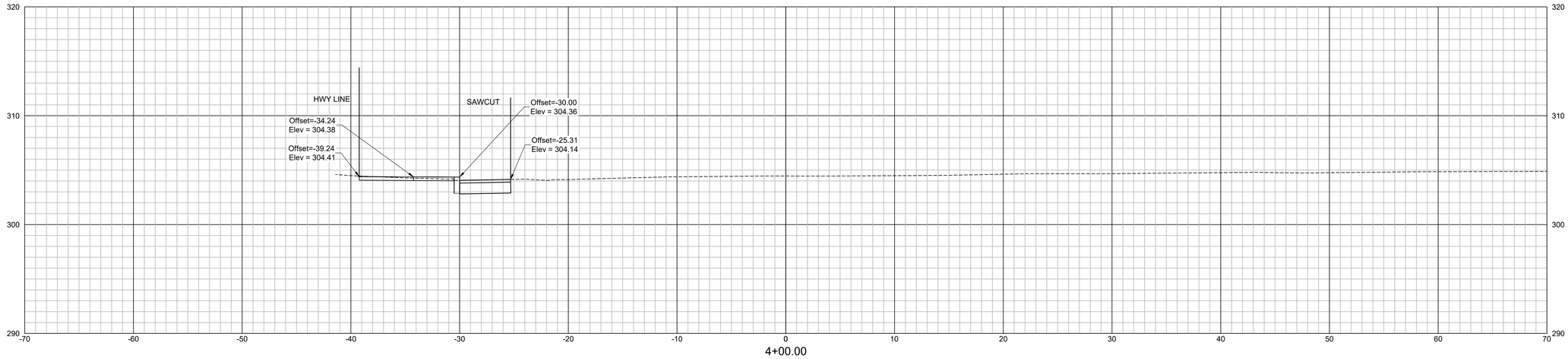
DRAWING NO.:
C-7.1



5+00.00



4+50.00



4+00.00

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Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:

Bristol CONNECTICUT All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN

0 5' 10'

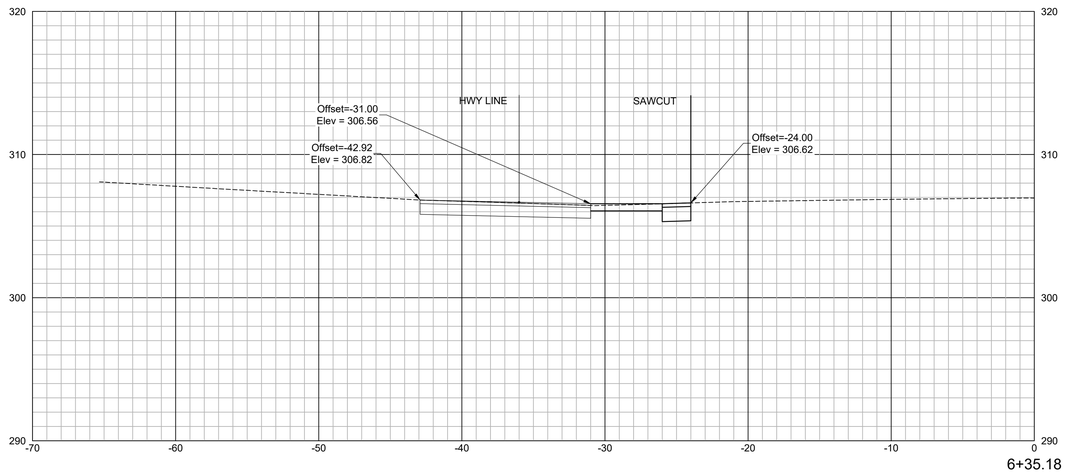
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DATE: **04/07/2023**

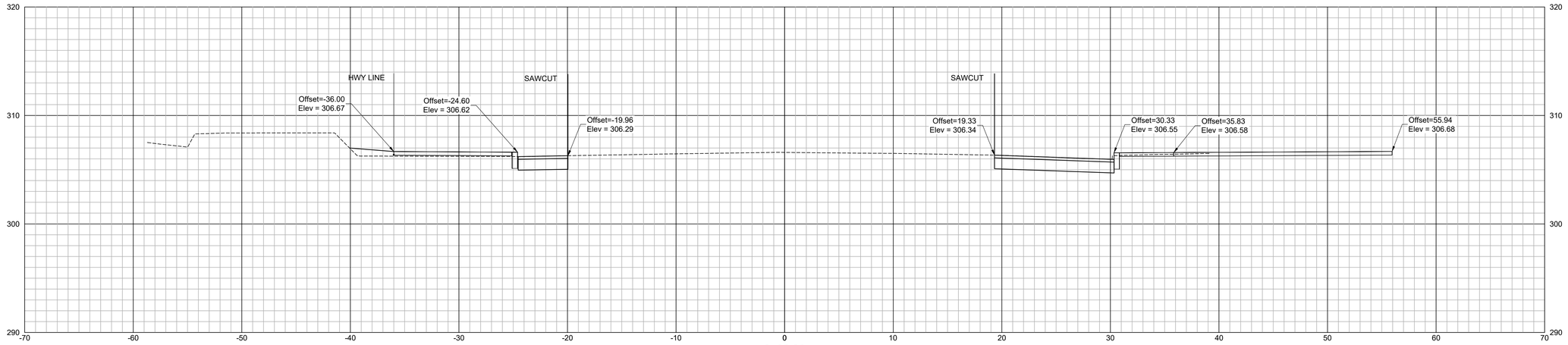
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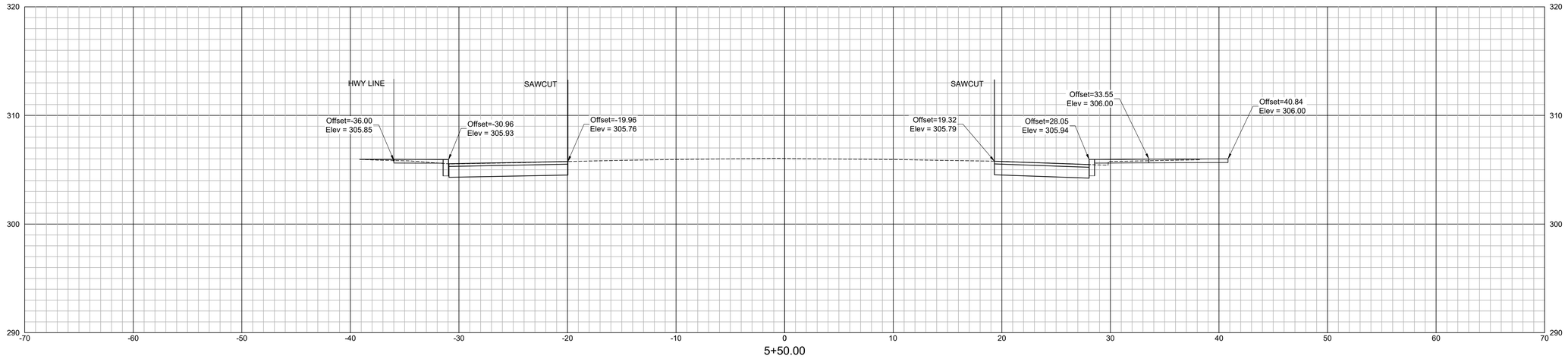
DRAWING NO.:
C-7.2



6+35.18



6+00.00



5+50.00

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benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:
Bristol CONNECTICUT All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

NORTH MAIN STREET BRISTOL, CT

DATE:	REVISION:

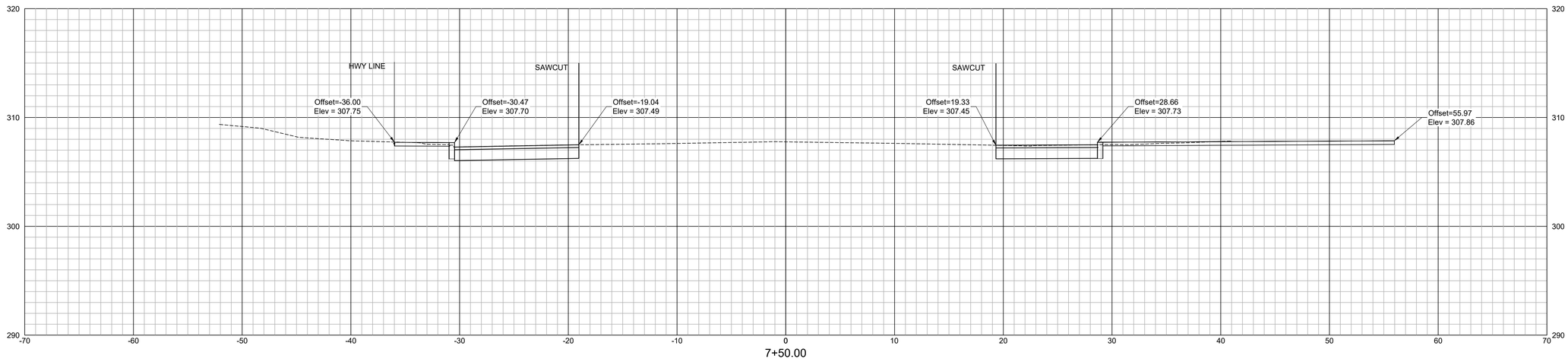
KEY PLAN

0 5' 10'
SCALE: 1" = 5'

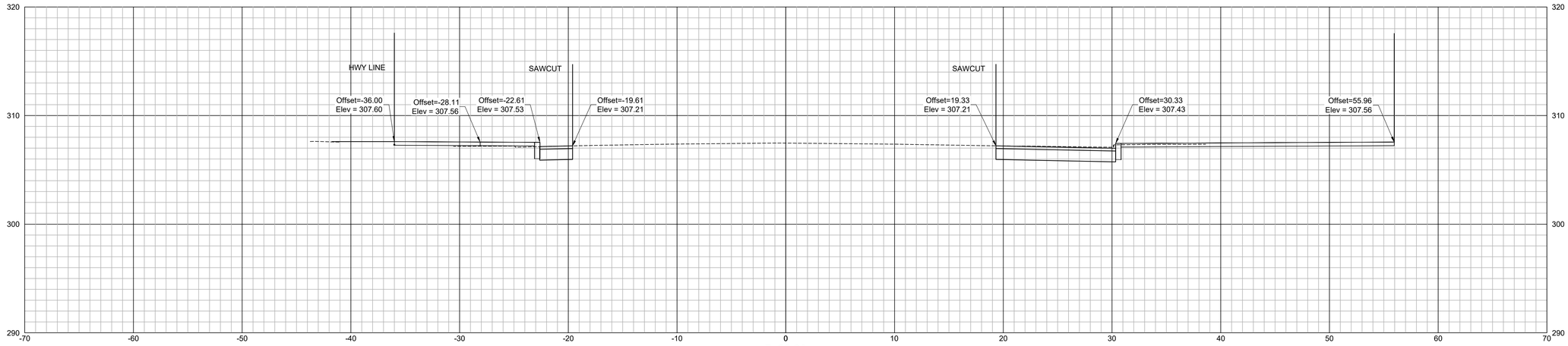
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DATE: **04/07/2023**
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CHECKED BY: **RGS**

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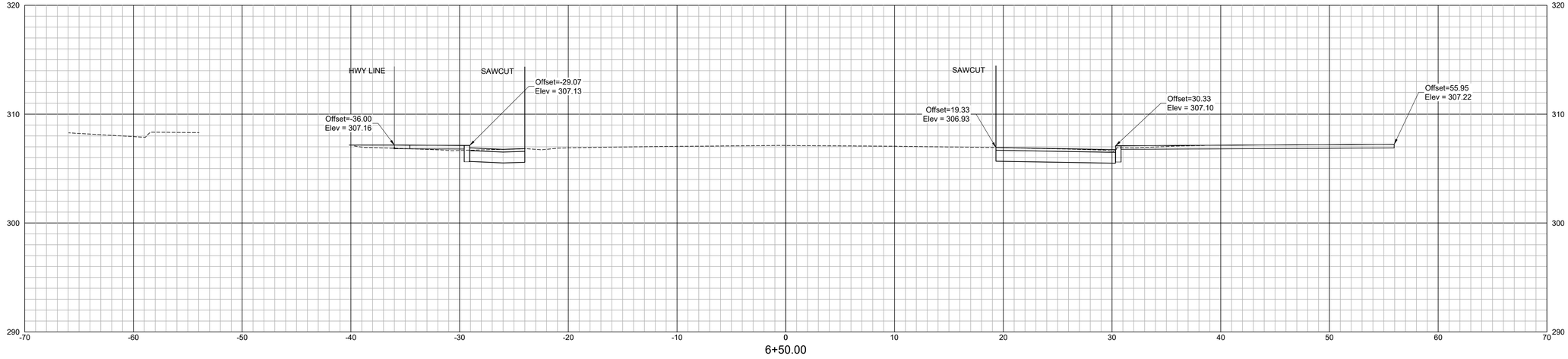
DRAWING NO.:
C-7.3



7+50.00



7+00.00



6+50.00

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benesch
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120 Hebron Avenue, 2nd Floor
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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

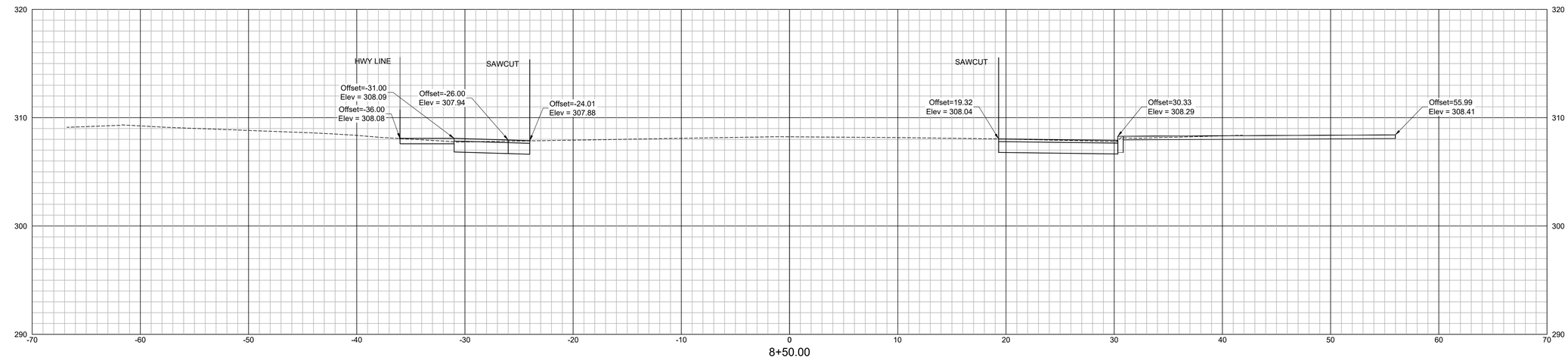
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SCALE: 1" = 5'

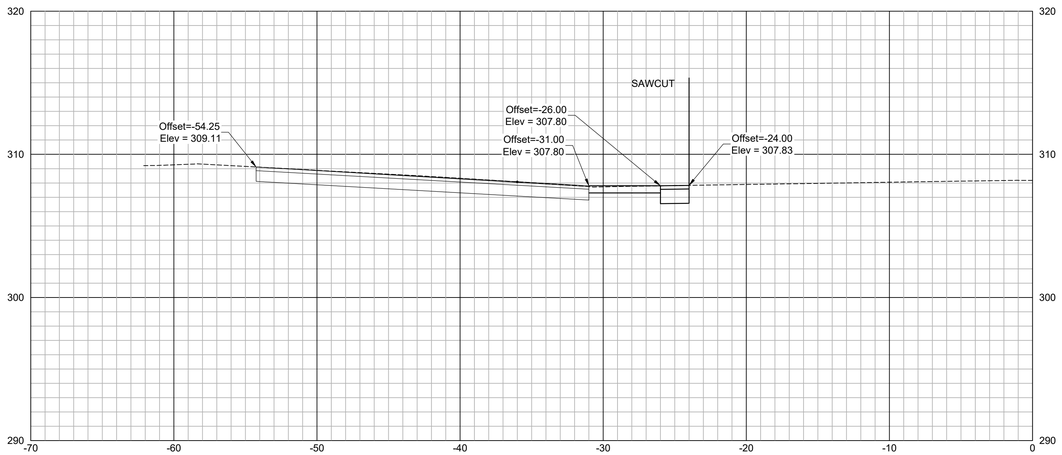
PROJECT NO.: **70617.08**
SCALE: **1"= 5'**
DATE: **04/07/2023**
DRAWN BY: **ENB**
CHECKED BY: **RGS**

ROADWAY SECTIONS

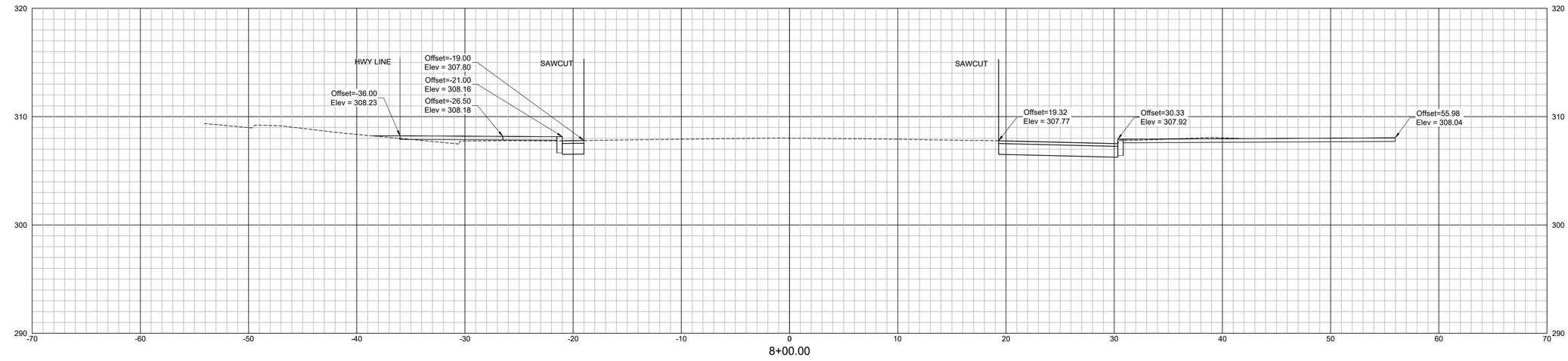
DRAWING NO.:
C-7.4



8+50.00



8+38.51



8+00.00

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benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
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Prepared for:
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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

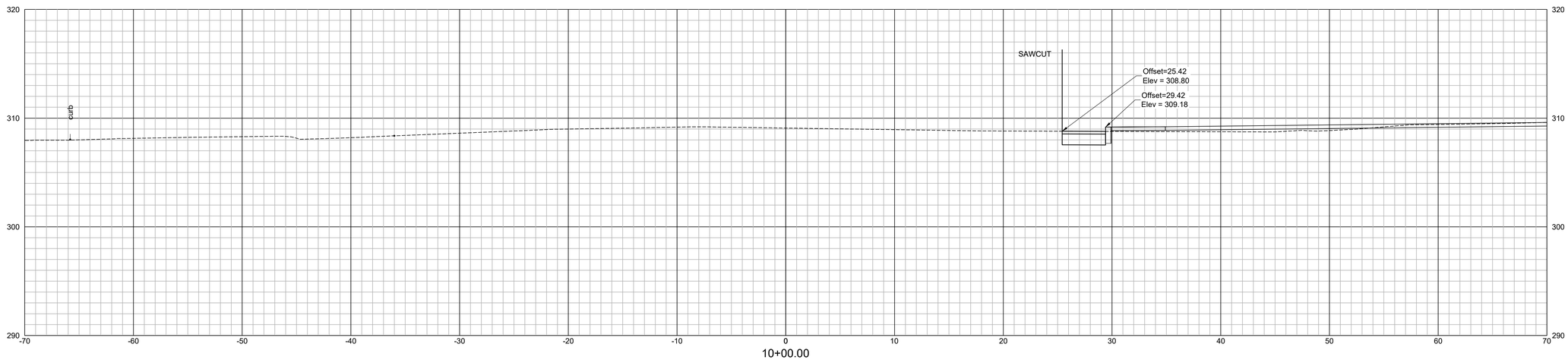
KEY PLAN

0 5' 10'
SCALE: 1" = 5'

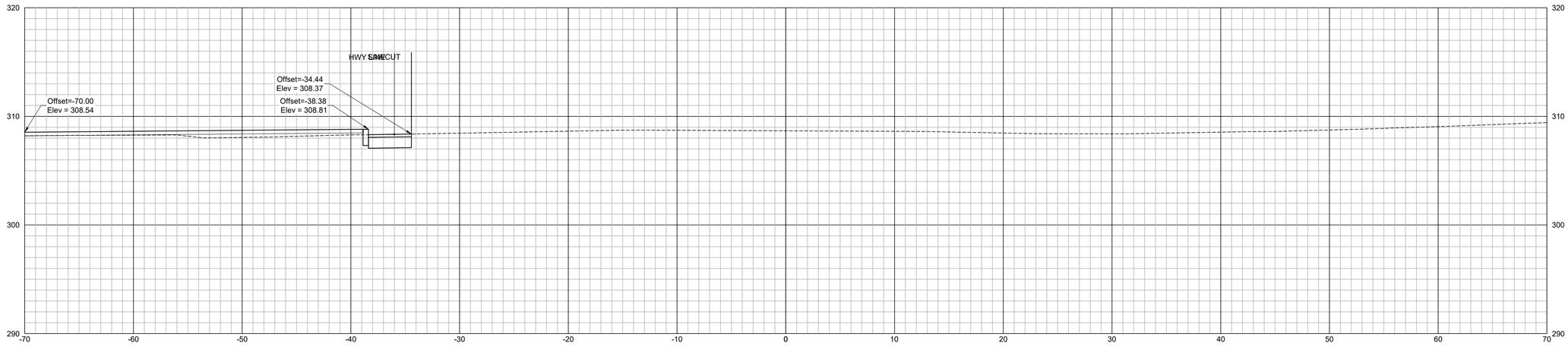
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SCALE: **1"= 5'**
DATE: **04/07/2023**
DRAWN BY: **ENB**
CHECKED BY: **RGS**

ROADWAY SECTIONS

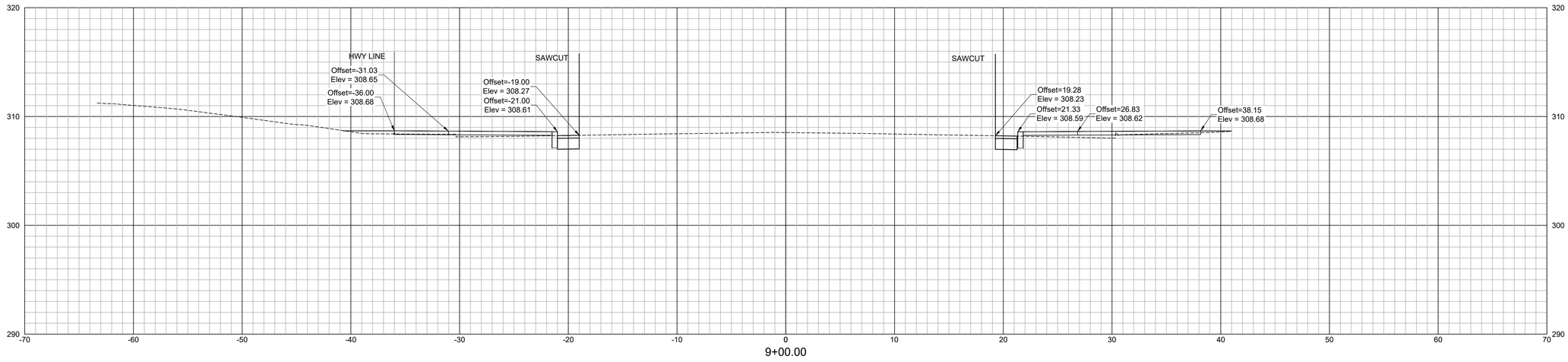
DRAWING NO.:
C-7.5



10+00.00



9+50.00



9+00.00

Prepared by:

benesch

Alfred Benesch & Company
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Glastonbury, Connecticut 06033
860-633-8341

Prepared for:

Bristol CONNECTICUT All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN

0 5' 10'

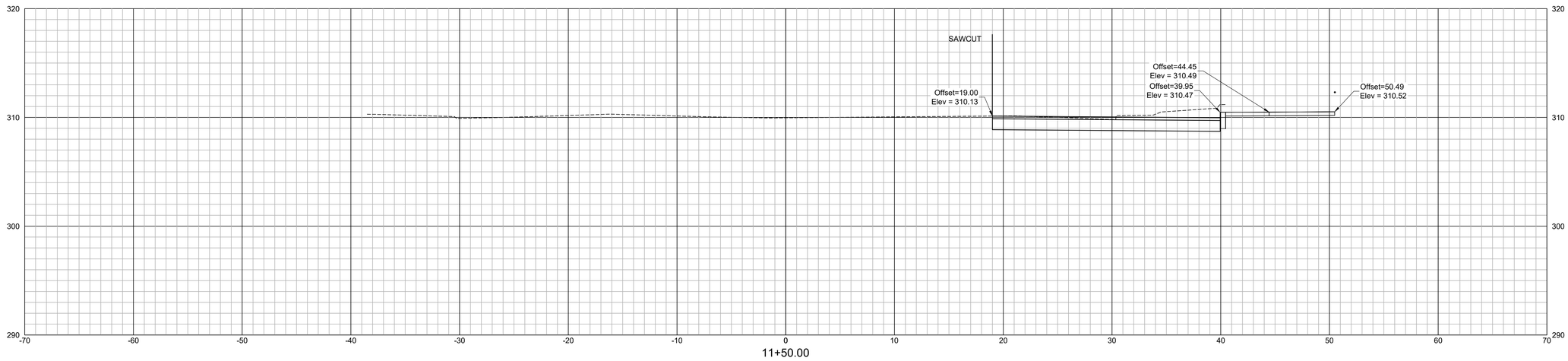
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PROJECT NO.: **70617.08**
SCALE: **1"= 5'**
DATE: **04/07/2023**

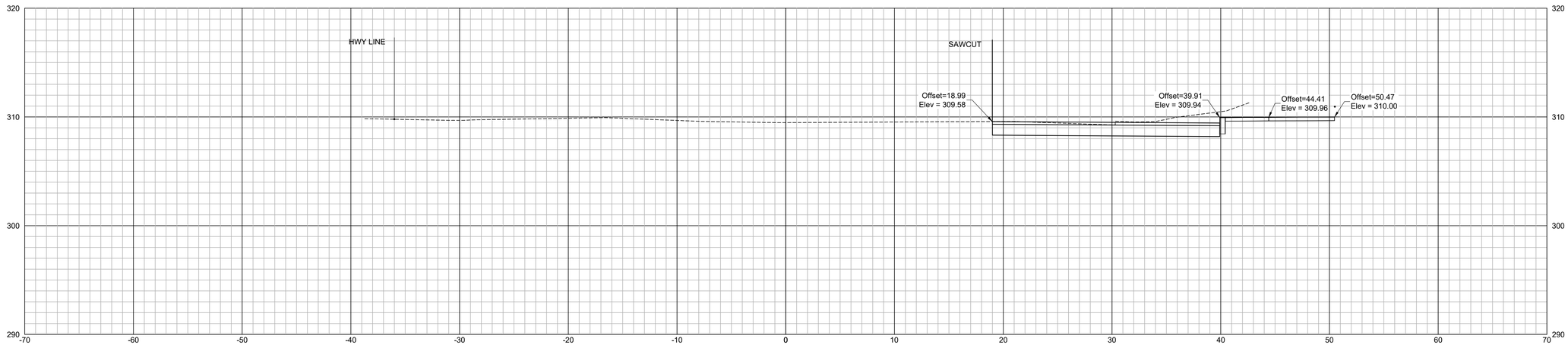
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CHECKED BY: **RGS**

ROADWAY SECTIONS

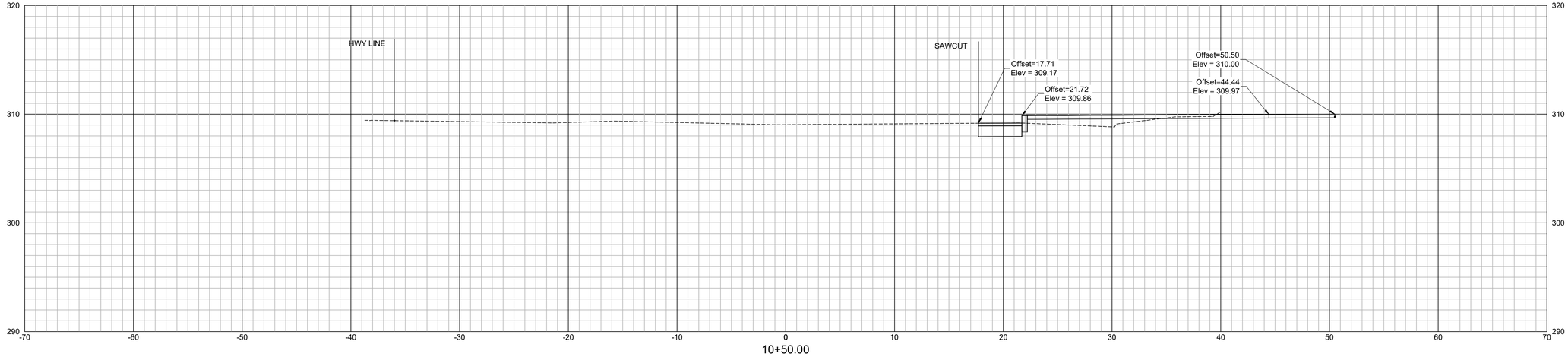
DRAWING NO.:
C-7.6



11+50.00



11+00.00



10+50.00

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benesch
Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:
Bristol CONNECTICUT
All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

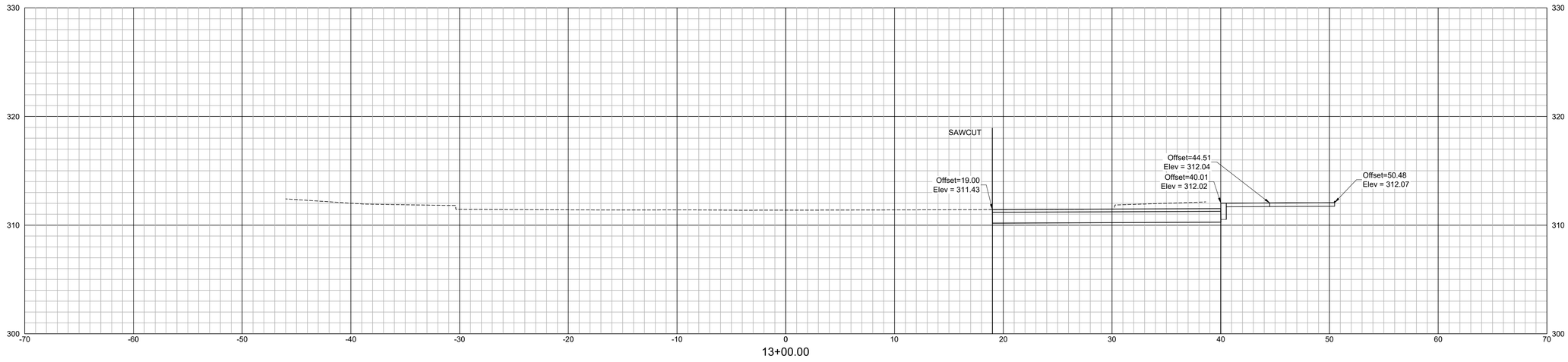
KEY PLAN

0 5' 10'
SCALE: 1" = 5'

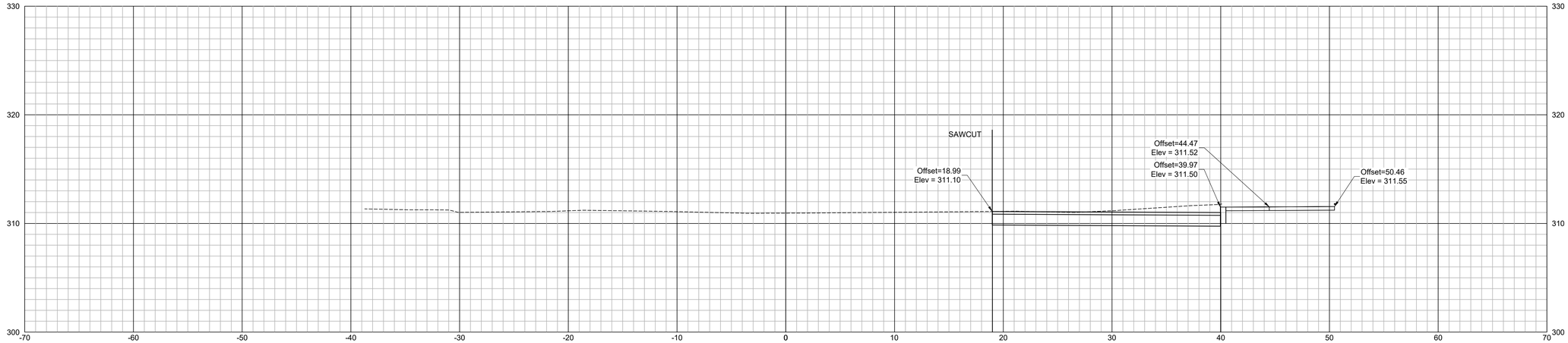
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DATE: **04/07/2023**
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CHECKED BY: **RGS**

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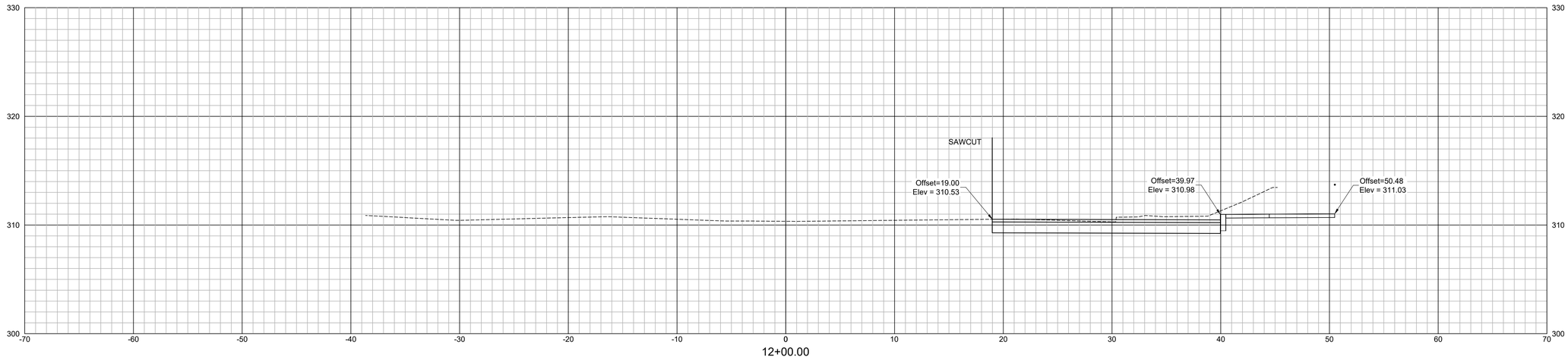
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C-7.7



13+00.00



12+50.00



12+00.00

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Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

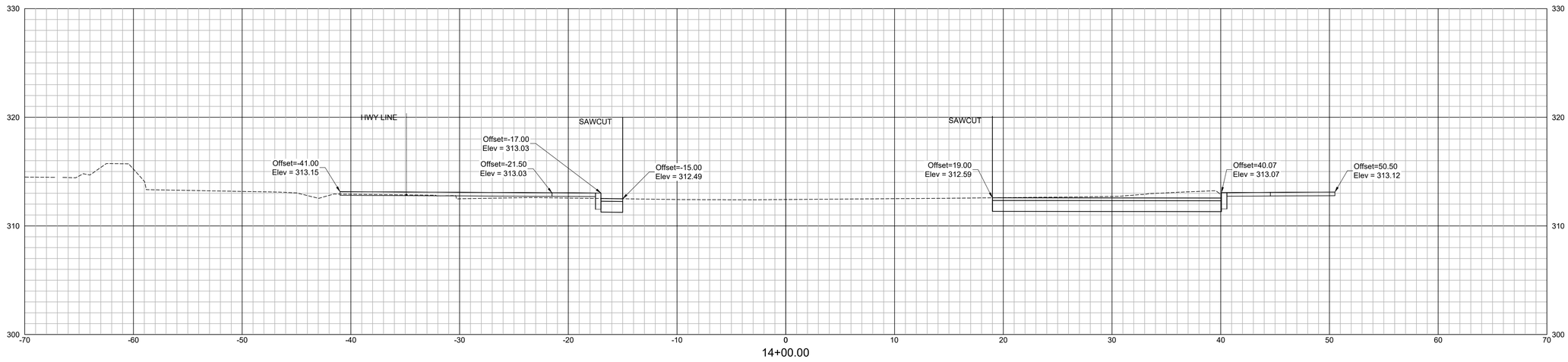
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SCALE: 1" = 5'

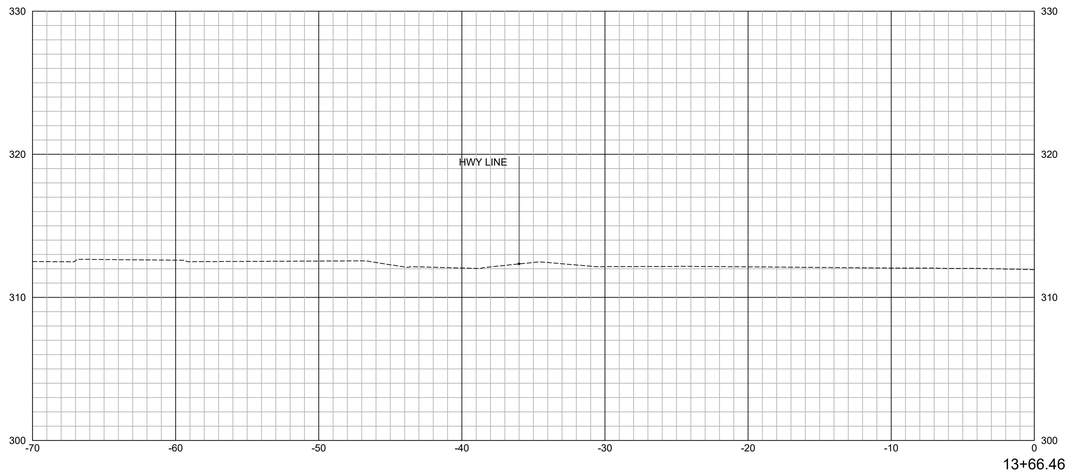
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DATE: **04/07/2023**
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CHECKED BY: **RGS**

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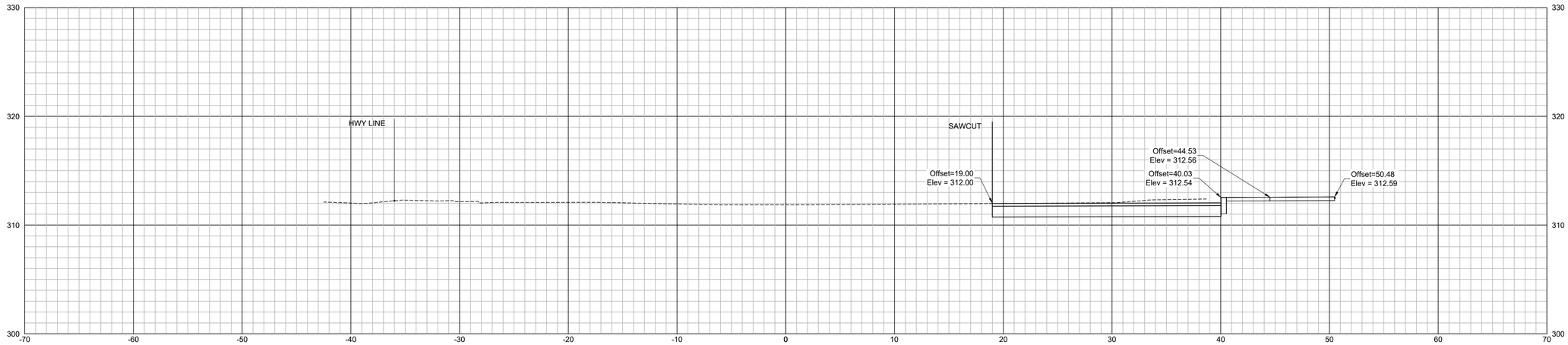
DRAWING NO.:
C-7.8



14+00.00



13+66.46



13+50.00

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Glastonbury, Connecticut 06033
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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

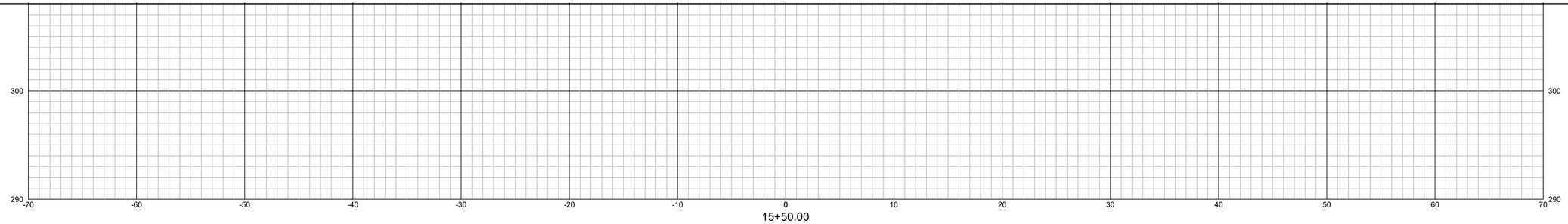
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SCALE: 1" = 5'

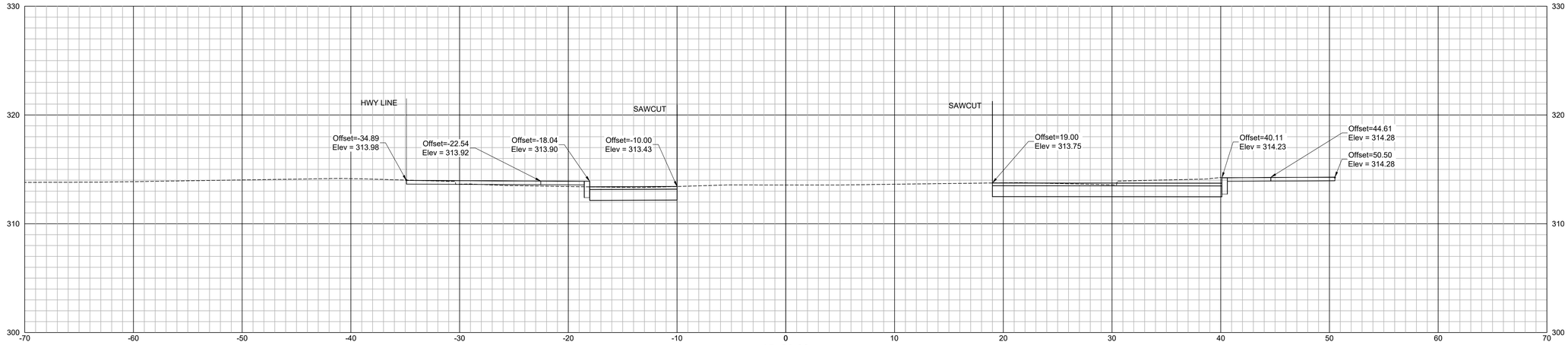
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DATE: **04/07/2023**
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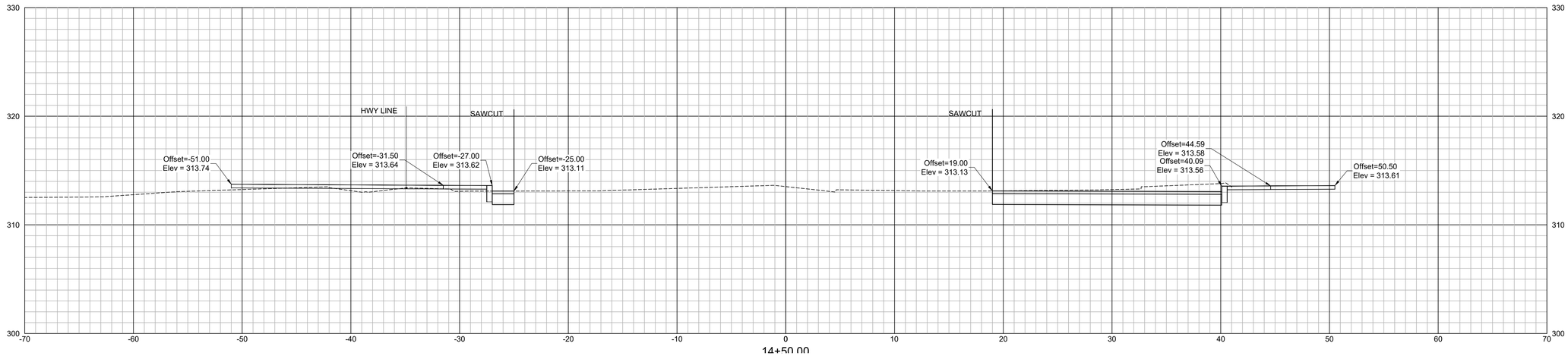
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C-7.9



15+50.00



15+00.00



14+50.00

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Alfred Benesch & Company
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Glastonbury, Connecticut 06033
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Prepared for:

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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

KEY PLAN

0 5' 10'

SCALE: 1" = 5'

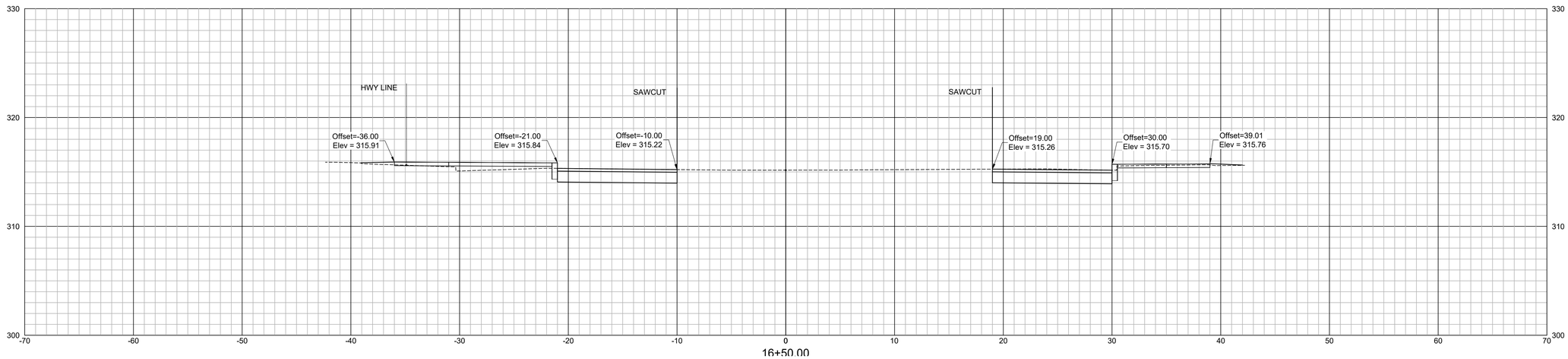
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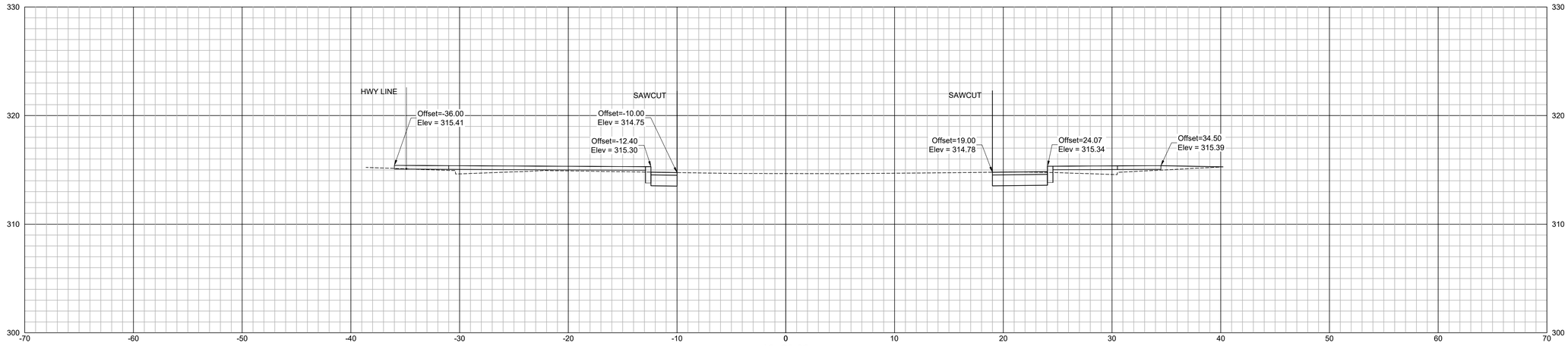
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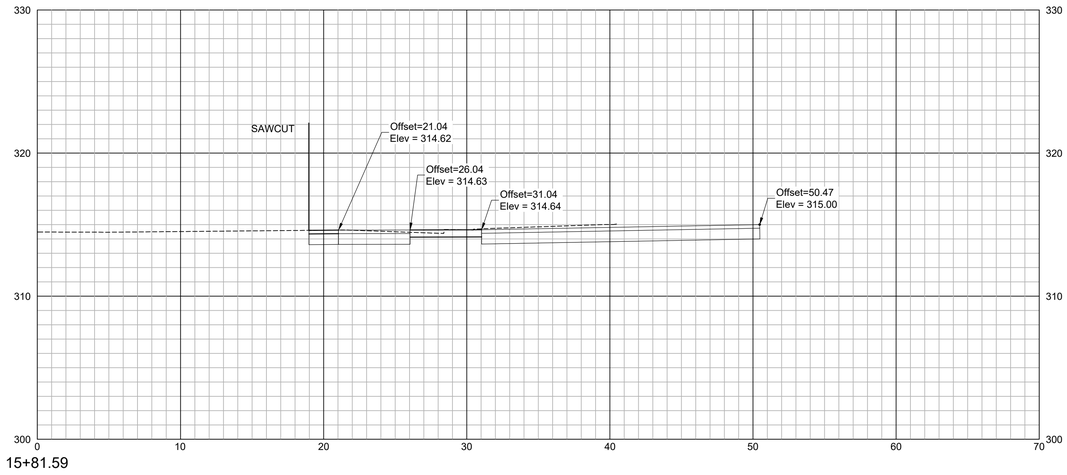
C-7.10



16+50.00



16+00.00



15+81.59

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Glastonbury, Connecticut 06033
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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

BRISTOL, CT

NORTH MAIN STREET

DATE:	REVISION:

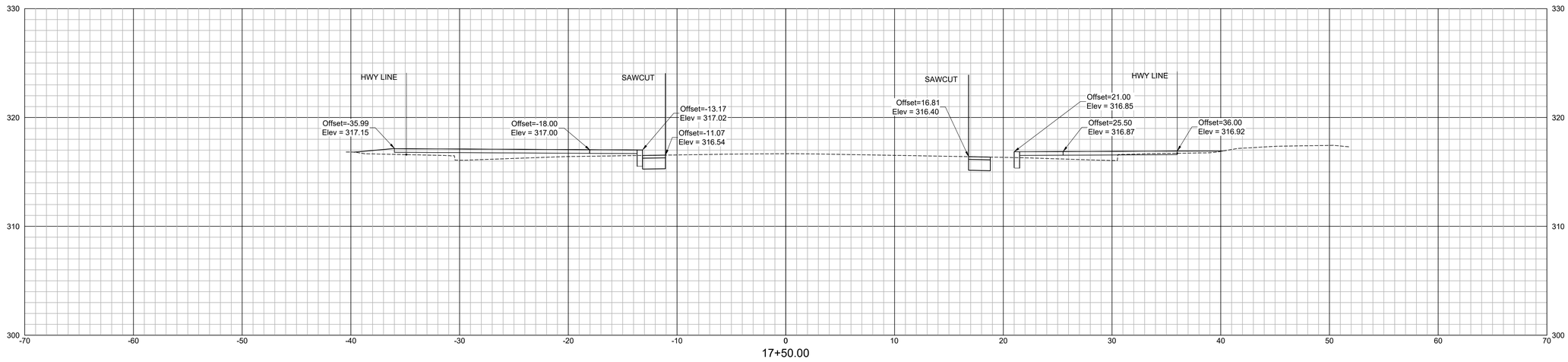
KEY PLAN

0 5' 10'
SCALE: 1" = 5'

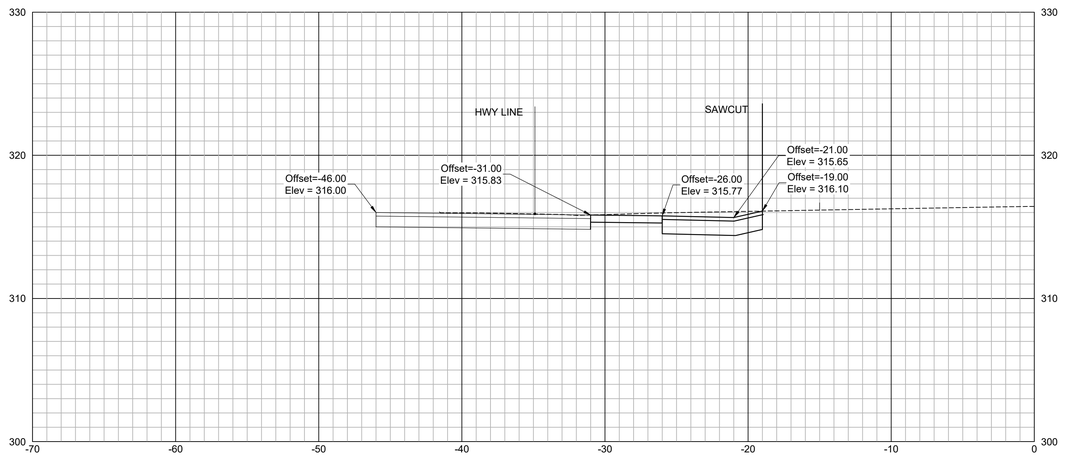
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SCALE: **1"= 5'**
DATE: **04/07/2023**
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ROADWAY SECTIONS

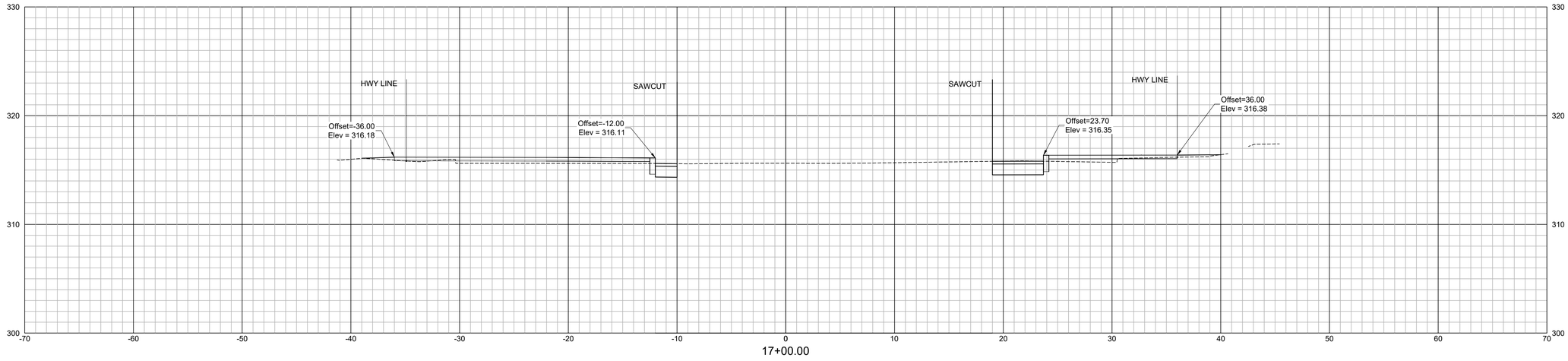
DRAWING NO.:
C-7.11



17+50.00



17+26.66



17+00.00

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Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

Prepared for:
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All Heart

STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

NORTH MAIN STREET BRISTOL, CT

DATE:	REVISION:

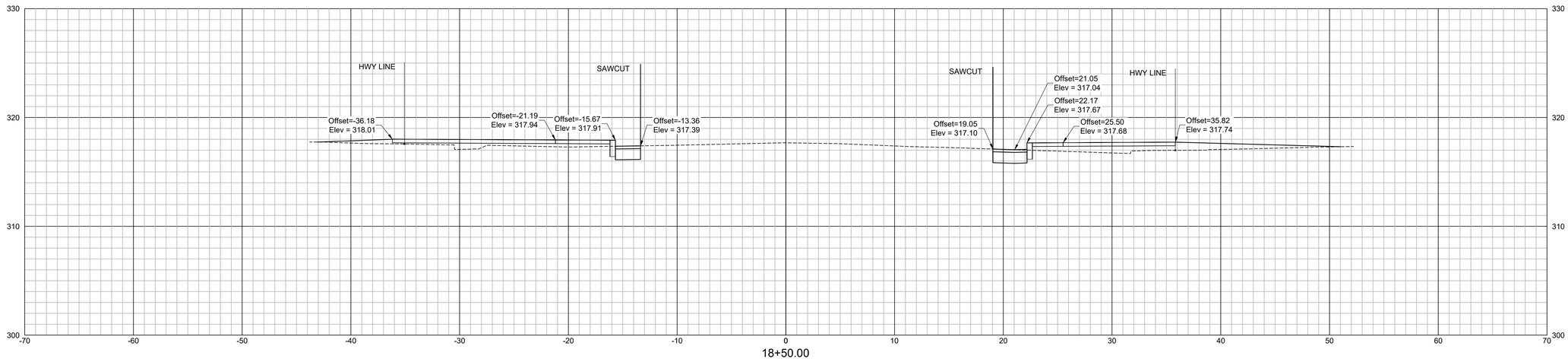
KEY PLAN

0 5' 10'
SCALE: 1" = 5'

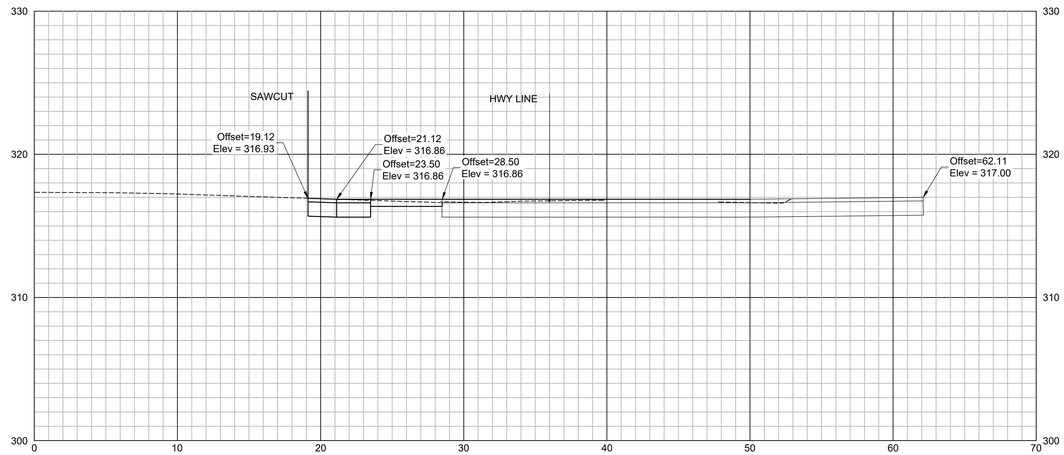
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SCALE: **1"= 5'**
DATE: **04/07/2023**
DRAWN BY: **ENB**
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ROADWAY SECTIONS

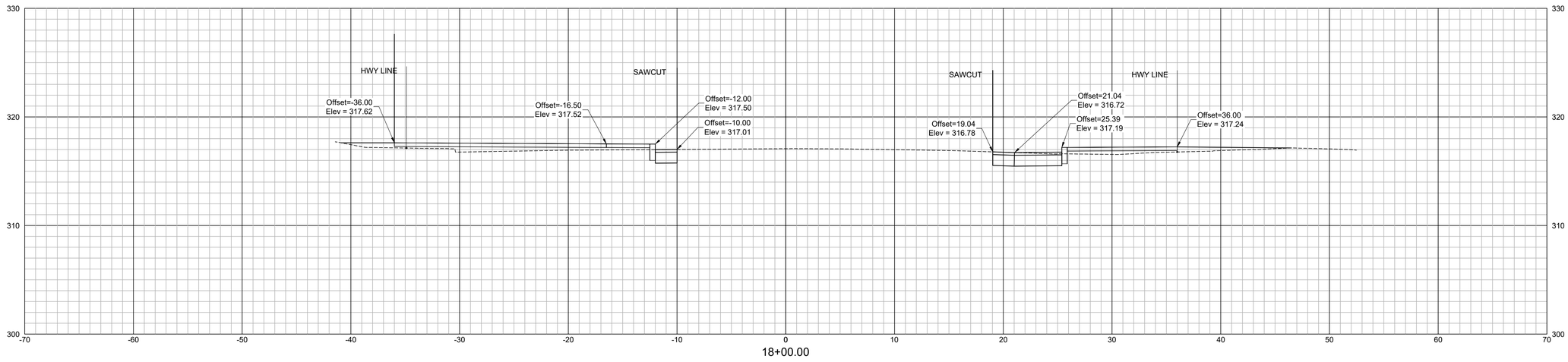
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C-7.12



18+50.00



18+22.52



18+00.00

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Alfred Benesch & Company
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

NORTH MAIN STREET BRISTOL, CT

DATE:	REVISION:

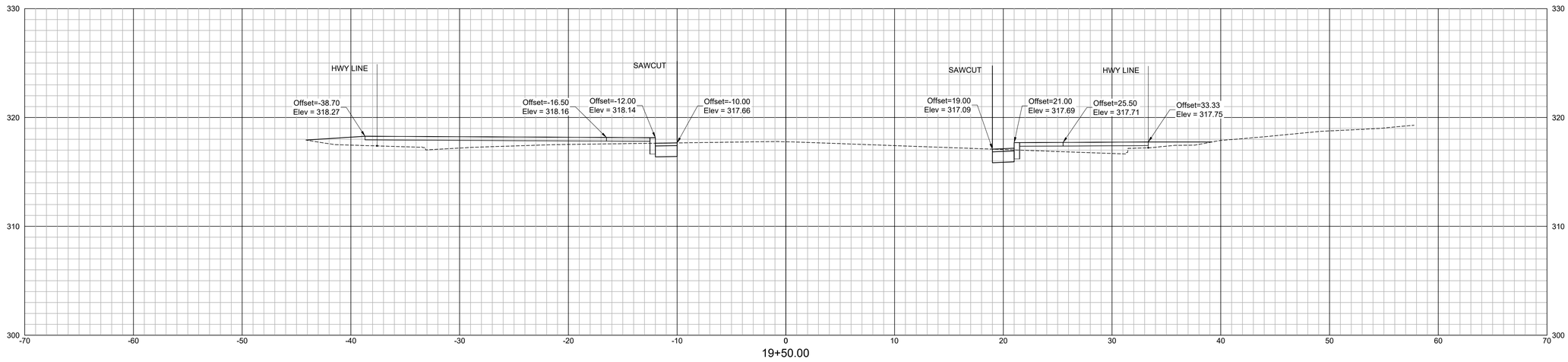
KEY PLAN

0 5' 10'
SCALE: 1" = 5'

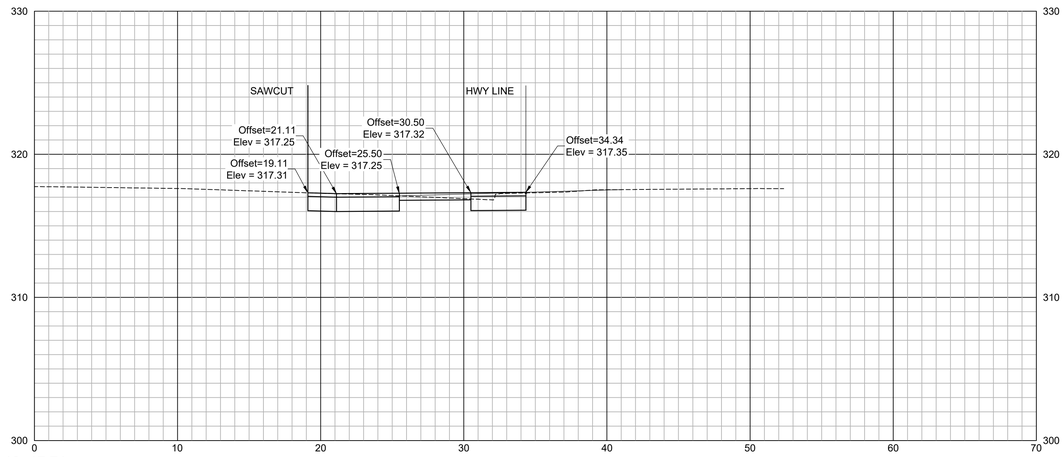
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DATE: **04/07/2023**
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CHECKED BY: **RGS**

ROADWAY SECTIONS

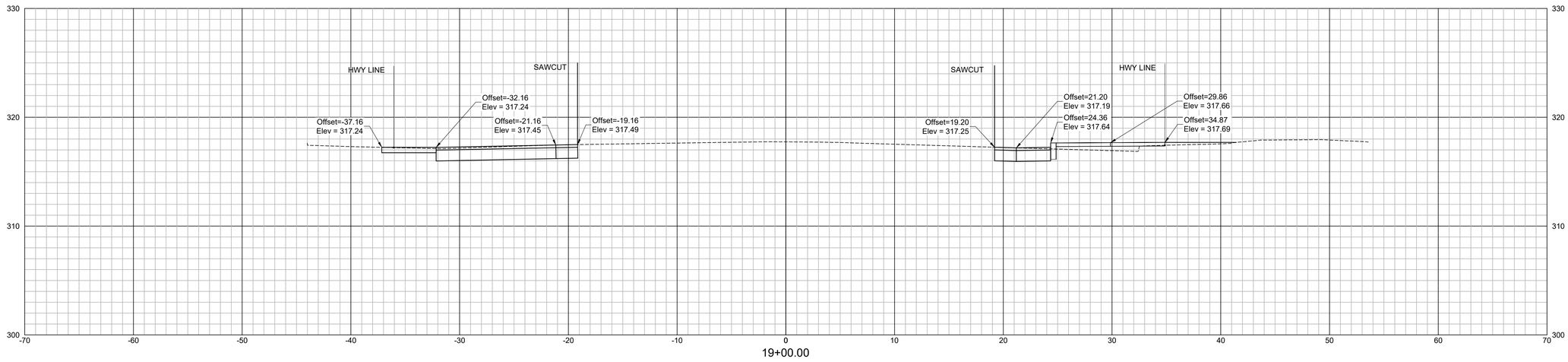
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C-7.13



19+50.00



19+17.71



19+00.00

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Alfred Benesch & Company
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Glastonbury, Connecticut 06033
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Prepared for:

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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

NORTH MAIN STREET BRISTOL, CT

DATE:	REVISION:

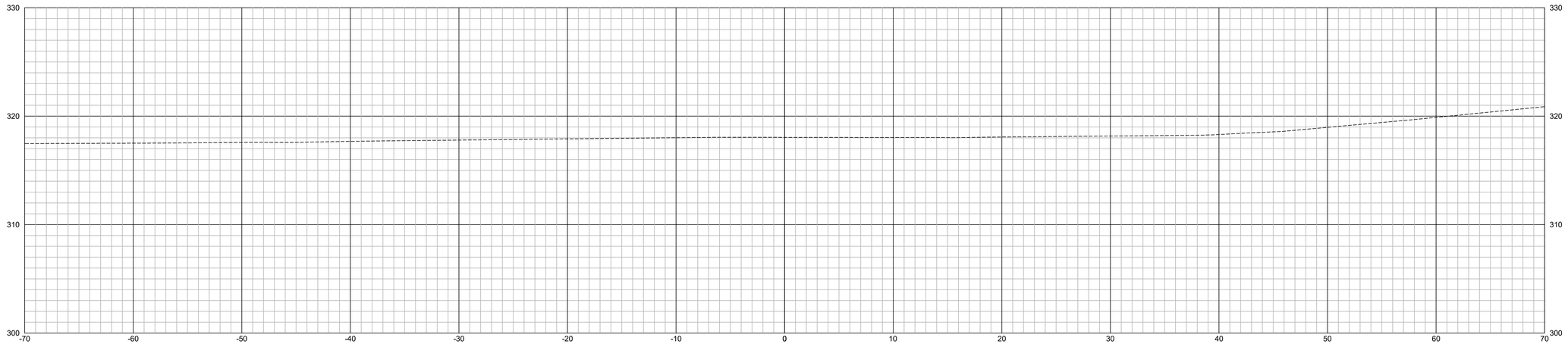
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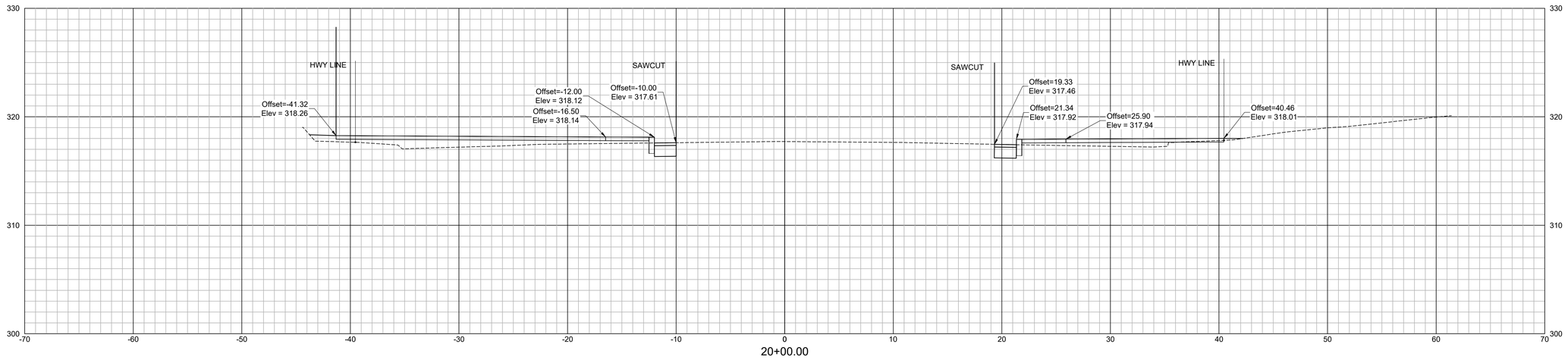
0 5' 10'
SCALE: 1" = 5'

PROJECT NO.: **70617.08**
SCALE: **1"= 5'**
DATE: **04/07/2023**
DRAWN BY: **ENB**
CHECKED BY: **RGS**

ROADWAY SECTIONS

DRAWING NO.:
C-7.14





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Alfred Benesch & Company
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Glastonbury, Connecticut 06033
860-633-8341

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STREETSCAPE IMPROVEMENTS ON NORTH MAIN STREET

NORTH MAIN STREET BRISTOL, CT

DATE:	REVISION:

KEY PLAN

0 5' 10'
SCALE: 1" = 5'

PROJECT NO.: **70617.08**
SCALE: **1"= 5'**
DATE: **04/07/2023**
DRAWN BY: **ENB**
CHECKED BY: **RGS**

ROADWAY SECTIONS

DRAWING NO.:
C-7.15

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	1			2 5			3			4 7			5			1 6			7			3 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	GRN	CL	CL
FACE #	1	Y	R ←	R ◄Y-	G	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R
	2	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	3	R	R	R	R	R	R	R	R ←	R ◄Y-	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R
	4	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	5	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R ←	R ◄Y-	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	6	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R
	7	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R ←	R ◄Y-	R	R	R	R	R	R	R	R
	8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R
	P	OFF	→												DW												WØ	DW	DW
	MII		5	3	0	10	3	0	5	3	0	10	3	0	5	3	0	10	3	0	5	3	0	10	3	0	15	0	0
	MAX		20	5	2	50	5	2	20	5	2	35	5	2	20	5	2	50	5	2	20	5	2	35	5	2	25	4	2
INTERVALS	MIN GRN		4			10			4			8			4			10			4			8					
	WALK																										7		
	PED CLR																										13		
	VEH EXT		1			1			1			1			1			1			1			1					
	MAX 1		10			25			10			30			10			25			10			30					
	MAX 2		15			35			15			35			15			35			15			35			21		
	YELLOW			3			3			3			3			3			3			3			3		21	0	
	RED				1			1			1			1			1			1			1			1			0.1
	ADD INIT																												
	MAX INIT																												
	TBR																												
	TTR																												
	MIN GAP																												
MODE			LOCK			MIN RECALL			LOCK			LOCK			LOCK			MIN RECALL			LOCK			LOCK			LOCK		
INIT START			THIS PHASE															THIS PHASE											

DETECTORS

IDENT	SIZE (WXL)	TYPE	MODE
D1	6'x50'	VIDEO	PRESENCE
D2, D2A	6'x50'	VIDEO	PRESENCE
D3	6'x50'	VIDEO	PRESENCE
D4	6'x50'	VIDEO	PRESENCE
D5	6'x50'	VIDEO	PRESENCE
D6	6'x50'	VIDEO	PRESENCE
D7	6'x50'	VIDEO	PRESENCE
D8	6'x50'	VIDEO	PRESENCE
S1	6'x6'	VIDEO	SYSTEM
S2	6'x6'	VIDEO	SYSTEM

SYSTEM LOC	COORDINATION TYPE:				OFFSET	
MASTER	PROGRAM			CYCLE		
	FUNCTION	TIME	DAYS		SEC	%
TO BE	FLASH					
DETERMINED	MAX 1	ALL TIMES	DAILY			
	MAX 2	FUTURE				

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.	13
HOLD GREEN	15
HOLD YELLOW	3.0
HOLD RED	1.0
HOLD PHASE	2&5
EXIT PHASE	2&6
EXIT CALL	NONE

TECHNICAL NOTES

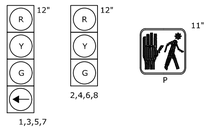
STANDARD OVERLAP SKIP FEATURES APPLY
CONTROLLER TO BE EQUIPPED WITH ALL NECESSARY INTERNAL COMMUNICATION COMPONENTS FOR INCLUSION INTO A CITY MASTER TRAFFIC CLOSED LOOP SYSTEM.
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
PHASES 1,3,5 & 7 TO DRIVE FACES 1,5,3 & 7 ◄Y- AND ◄— ONLY.
PHASES 2 & 6 TO DRIVE FACES 1 & 5 R, Y, AND G.
PHASE 2 ON TO OMIT PHASE 5.
PHASE 6 ON TO OMIT PHASE 1.

MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 9 PEDESTRIAN CHANGE INTERVAL.

OFFICE RECORD

REV #	TIR #	SM #	SIGNAL REVISED:
			REVISED CURB LINES AND NUMBER OF LANES ALONG NORTH MAIN STREET. INSTALLED NEW PEDESTALS, PEDESTRIAN SIGNALS AND PUSHBUTTOND AT SW AND SE CORNERS

SIGNAL FACES



SIGNAL FACES 1,3,5,7 TO HAVE 12" BI-COLORED YELLOW AND GREEN ARROW

CONSTRUCTION NOTES:

ALL MATERIAL AND CONSTRUCTION METHODS SHALL CONFORM TO THE FOLLOWING CURRENT D.O.T. DOCUMENTS WHICH CAN BE ACCESSED ON THE D.O.T. WEBSITE
* STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION,
* SUPPLEMENTAL SPECIFICATIONS TO THE STANDARD SPECIFICATIONS,
* SPECIAL PROVISIONS TO THE STANDARD SPECIFICATIONS,
* STANDARD INSTALLATION AND GUIDE DETAIL SHEETS.

ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING EXCEPT AS NOTED.

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

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

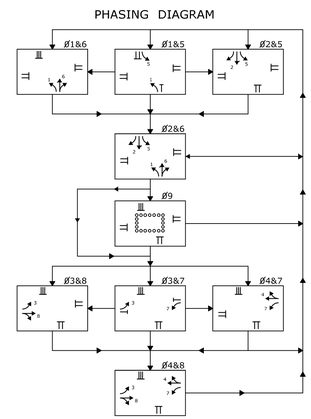
THE LOCATION OF TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FT. IF A MIN. 4 FT. IS UNAVAILABLE, NOTIFY THE ENGINEER AND CONTACT THE CITY OF BRISTOL.

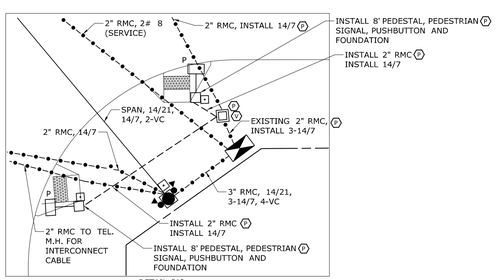
(O) REMOVE EXISTING SIGNAL CABLE BETWEEN PEDESTAL AND CONTROLLER CABINET. REMOVE EXISTING PEDESTAL AND FOUNDATION. RUN NEW CONDUIT FROM THE EXISTING HANDHOLE TO THE NEW PEDESTAL FOUNDATIONS. INSTALL NEW PEDESTAL FOUNDATIONS, 8' PEDESTALS, PEDESTRIAN SIGNALS AND PUSHBUTTONS AS SHOWN. INSTALL 2- 14/7 CABLES BETWEEN THE CONTROLLER CABINET AND NEW EQUIPMENT.

(P) REMOVE EXISTING 14 7 CABLE BETWEEN THE PEDESTAL ON THE NE CORNER AND THE CONTROLLER CABINET. LOCATE THE EXISTING CONDUIT, BREAK AND INSTALL NEW 30"x30" HANDHOLE. RUN NEW CONDUIT FROM THE EXISTING HANDHOLE TO THE NEW PEDESTAL FOUNDATIONS. INSTALL NEW 8' PEDESTALS, PEDESTRIAN SIGNALS AND PUSHBUTTONS AS SHOWN. INSTALL NEW 14/7 CABLES BETWEEN THE CONTROLLER CABINET AND NEW EQUIPMENT. INSTALL NEW 14/ 7 CABLE BETWEEN THE CONTROLLER CABINET AND EXISTING PEDESTAL AT THE NE CORNER.

ALL PEDESTRIAN PUSH BUTTONS SHALL BE PIEZO TYPE AND MUST MEET ADA STANDARDS.

PHASING DIAGRAM





NOTES:

(T) BRICK CROSSWALK - CITY MAINTAINED
(V) CAST IRON HANDHOLE COVER.
(Y) HANDHOLE COVER TO HAVE A BRICK RED FINISH.

SEE SEPARATE PLAN FOR PAVEMENT MARKINGS AND ADDITIONAL SIGNING.

CITY SIGNAL

	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER		
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE		

REV # INTERSECTION # 017-

ENERGY BY	ADDRESS #
MAINT LEVEL	UNDERGROUND SERVICE
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

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

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

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

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

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

NORTH MAIN STREET AT CENTER STREET

TOWN: **BRISTOL**
DRAWING TITLE: **SIGNAL PLAN**
PROJECT NO.
DRAWING NO. TCS-01
SHEET NO.

DATE PLOTTED : 4/7/2023 Y:\Glastonbury\70600S\70617.08_N.Maln_Streetscape\Eng_Docs\Slgnals\TR_TCS_17-North-Maln@Center.dgn
SCALE 1" = 40'

MOVEMENT DIAGRAM

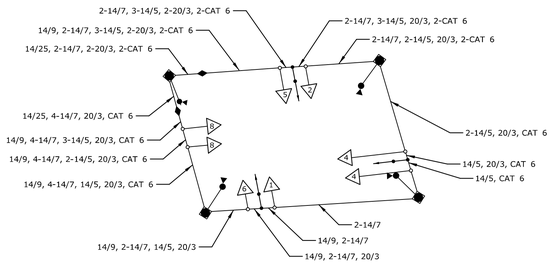
		PHASE 1 (PRE-EMPT 1)			PHASE 2 (PRE-EMPT 2)			PHASE 3			PHASE 4 (PRE-EMPT 3)			PHASE 5 (PRE-EMPT 2)			PHASE 6 (PRE-EMPT 1)			PHASE 7			PHASE 8					
NTOR		NONE																										
	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	← R	◄Y R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R				R	R	R			
2	Y	R	R	R	G	Y	R	R	R	R	R	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				R	R	R			
5	Y	R	R	R	G	Y	R	R	R	R	R	R	R	← R	◄Y R	R	R	R	R				R	R	R			
6	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	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			
P	OFF	◄		DW	►			WO	◄						DW		►						◄		DW	►		
MIN		5	3	1	15	3	1	W 4	FDW 18	4	0	5	3	1	5	3	1	15	3	1				5	3	1			
MAX		15	5	3	50	5	3	10	24	4	0	50	5	3	15	5	3	50	5	3				50	5	3			
MIN GRN		5			15							9			5			15						9					
WALK								7 ①		ACCESSIBLE PEDESTRIAN SIGNAL																			
PED CLR								22 ②																				
VEH EXT		2									2			2									2					
MAX 1		5			29						18			5			29						18					
MAX 2		5			29						18			5			29						18					
YELLOW			3.0			3.6			4.0			3.3			3.0			3.6							3.3				
RED				1.0			1.7			0.0			2.0			1.0			1.7						2.0			
ADD INIT										COUNTDOWN PEDESTRIAN SIGNAL																			
MAX INIT																												
TBR																												
TTR																												
MIN GAP																												
MODE		NON LOCK			MAX RECALL			NON LOCK			NON LOCK			NON LOCK			MAX RECALL			OFF			NON LOCK			OFF		
INIT START					THIS PHASE												THIS PHASE											

DETECTORS				SYSTEM LOC
IDENT	SIZE	TYPE	MODE	
D1	6' X 50'	VIDEO	PRESENCE	
D4	6' X 50'	VIDEO	PRESENCE	
D4A	6' X 50'	VIDEO	PRESENCE	
D5	6' X 50'	VIDEO	PRESENCE	
D8	6' X 50'	VIDEO	PRESENCE	
D8A	6' X 50'	VIDEO	PRESENCE	
S1	6' X 6'	VIDEO	PRESENCE	
S2	6' X 6'	VIDEO	PRESENCE	
S3	6' X 6'	VIDEO	PRESENCE	
S4	6' X 6'	VIDEO	PRESENCE	

COORDINATION TYPE - NONE PROGRAM

FUNCTION	TIME	DAYS
FLASH	NONE	
MAX 1	ALL TIMES	DAILY
MAX 2	FUTURE	

CYCLE	OFFSET SEC	OFFSET %



ELECTRICAL CALLOUTS - NOT TO SCALE

SIGN LEGEND

Ⓐ INSTALL 31-5505Z — SPEED LIMIT 25

Ⓑ EXISTING 31-0282Z — ONLY

Ⓒ EXISTING 31-0302Z — ONLY, ONLY

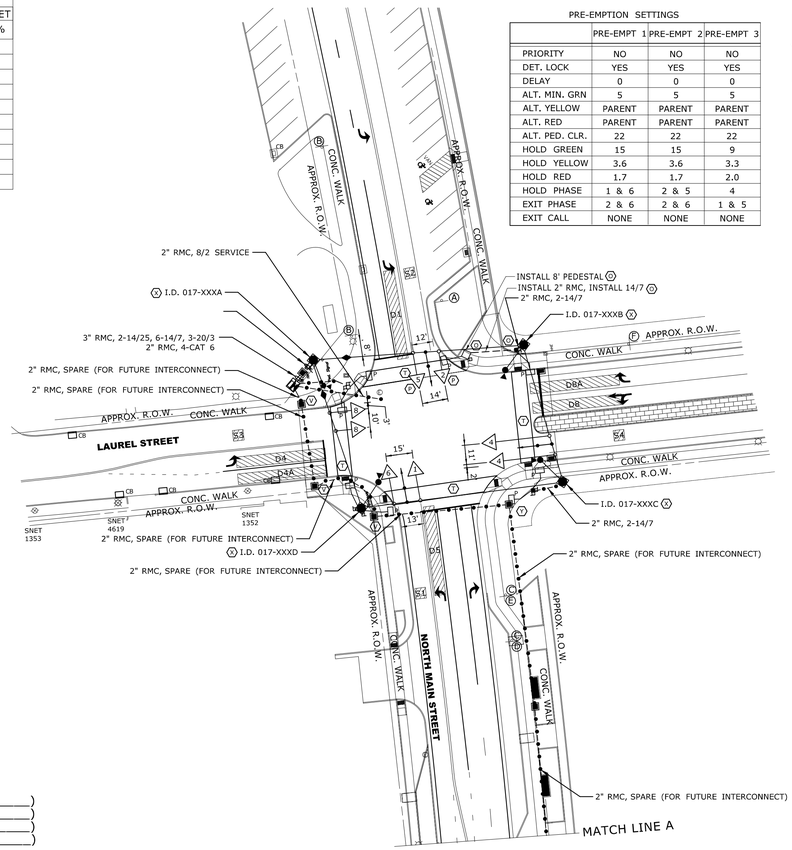
Ⓓ EXISTING 31-0630Z — NO PARKING ANY TIME ⇦

Ⓔ EXISTING 31-0630Z — NO PARKING ANY TIME ⇦

Ⓕ EXISTING 31-0283Z — ONLY

SPAN POLE INFORMATION:

017-XXXA: HEIGHT 30', B.C. 24", LOAD AT YIELD 7800 LBS. (POLE INSTALLED _____)
017-XXXB: HEIGHT 30', B.C. 24", LOAD AT YIELD 7800 LBS. (POLE INSTALLED _____)
017-XXXC: HEIGHT 30', B.C. 24", LOAD AT YIELD 7800 LBS. (POLE INSTALLED _____)
017-XXXD: HEIGHT 30', B.C. 24", LOAD AT YIELD 7800 LBS. (POLE INSTALLED _____)



TECHNICAL NOTES

- STANDARD OVERLAP SKIP FEATURES APPLY
- PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
- PHASE 2 & 6 ON TO OMIT PHASE 1 & 5.
- PHASES 1 & 5 TO DRIVE FACES 1 & 5 ◄Y AND ◄ ONLY.
- PHASES 2 & 6 TO DRIVE FACES 1 & 5 R, Y, AND G.
- ① PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.
- ② COUNTDOWN ONLY DURING PHASE 3 FLASHING PEDESTRIAN CHANGE INTERVAL.
- MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CHANGE INTERVAL.
- CONTROLLER TO BE EQUIPPED WITH ALL NECESSARY INTERNAL COMMUNICATION COMPONENTS FOR INCLUSION INTO A CITY MASTER TRAFFIC CLOSED LOOP SYSTEM.

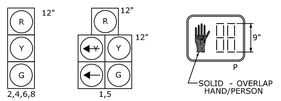
OFFICE RECORD

REV #	TIR #	SM #	SIGNAL REVISED:
			REVISED CURB LINES AND NUMBER OF LANES ALONG NORTH MAIN STREET, INSTALLED NEW PEDESTALS, PEDESTRIAN SIGNAL AND PUSHBUTTON AT NE CORNER.

PRE-EMPTION SETTINGS

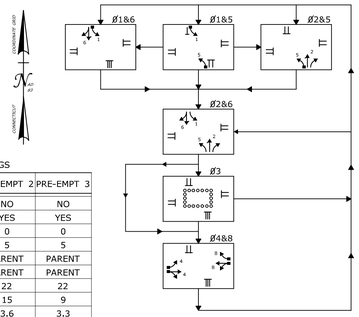
	PRE-EMPT 1	PRE-EMPT 2	PRE-EMPT 3
PRIORITY	NO	NO	NO
DET. LOCK	YES	YES	YES
DELAY	0	0	0
ALT. MIN. GRN	5	5	5
ALT. YELLOW	PARENT	PARENT	PARENT
ALT. RED	PARENT	PARENT	PARENT
ALT. PED. CLR.	22	22	22
HOLD GREEN	15	15	9
HOLD YELLOW	3.6	3.6	3.3
HOLD RED	1.7	1.7	2.0
HOLD PHASE	1 & 6	2 & 5	4
EXIT PHASE	2 & 6	2 & 6	1 & 5
EXIT CALL	NONE	NONE	NONE

SIGNAL FACES



ALL INDICATIONS TO HAVE LED LAMPS.

ALL OVERHEAD SIGNAL FACES TO HAVE BACKPLATES WITH RETRO-REFLECTIVE YELLOW BORDERS.





CONSTRUCTION NOTES;

ALL MATERIAL AND CONSTRUCTION METHODS SHALL CONFORM TO THE FOLLOWING CURRENT D.O.T. DOCUMENTS WHICH CAN BE ACCESSED ON THE D.O.T. WEBSITE
* STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION,
* SUPPLEMENTAL SPECIFICATIONS TO THE STANDARD SPECIFICATIONS,
* SPECIAL PROVISIONS TO THE STANDARD SPECIFICATIONS,
* STANDARD INSTALLATION AND GUIDE DETAIL SHEETS.

ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING EXCEPT AS NOTED.

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

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF BRISTOL 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 FT. IF A MIN. 4 FT. IS UNAVAILABLE, NOTIFY THE ENGINEER AND CONTACT THE CITY OF BRISTOL.

⬡ REMOVE EXISTING PEDESTRIAN SIGNAL AND PUSHBUTTON FROM EXISTING PEDESTAL. REMOVE CABLE FOR THE REMOVED SIGNAL BETWEEN PEDESTAL AND CONTROLLER CABINET. INSTALL NEW 2" RMC CONDUIT BETWEEN THE EXISTING PEDESTAL FOUNDATION THE NEW PEDESTAL FOUNDATION. INSTALL A NEW 8' PEDESTAL ON THE NEW FOUNDATION. RELOCATE PREVIOUSLY REMOVED PEDESTRIAN SIGNAL AND PUSHBUTTON TO THE NEW PEDESTAL. INSTALL 14/7 CABLE BETWEEN THE CONTROLLER CABINET AND THE RELOCATED SIGNALS.

Ⓟ RELOCATE SIGNAL HEADS 2 AND 5 TO NEW LOCATIONS AS SHOWN

ADJUST ALL VIDEO DETECTION ZONED TO ALIGN WITH THE NEW CURBS AND LANE LINES.

ALL PEDESTRIAN PUSH BUTTONS MUST MEET ADA STANDARDS AND SHALL BE ACCESSIBLE PEDESTRIAN SIGNAL TYPE.

NOTES:

Ⓣ BRICK CROSSWALK - CITY MAINTAINED

Ⓥ CAST IRON HANDHOLE COVER.

Ⓨ HANDHOLE COVER TO HAVE A BRICK RED FINISH.

SEE SEPARATE PLAN FOR PAVEMENT MARKINGS AND ADDITIONAL SIGNINING.

JAN. 2022 REVISION
NW CORNER CHANGES
DESIGNED BY:
ALFRED BENESCH & CO.

ENGINEER'S SEAL & SIGNATURE APPLY TO NW CORNER CHANGES JAN. 2022 REVISION

CITY SIGNAL

NO.	DATE	REVISION DESCRIPTION
1	02/11/22	OSTA COMMENTS

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

- PROPOSED WOOD SPAN POLE
- EXISTING WOOD SPAN POLE
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- PEDESTAL MOUNTING
- PEDESTRIAN PUSH BUTTON & SIGN
- DIRECTIONAL ARW. FOR PUSH BUTTON
- TRAFFIC SIGNAL FACE
- PEDESTRIAN SIGNAL FACE
- DET. LEADS IN SAW CUT
- PROPOSED RMC (RIGID METAL CONDUIT)
- EXISTING RMC (RIGID METAL CONDUIT)
- AUXILIARY TERMINATION CABINET
- AUXILIARY EQUIPMENT CABINET
- VIDEO DETECTION ZONE
- PROPOSED CONTROLLER
- EXISTING CONTROLLER
- LOOP DETECTOR
- SD SYSTEM DETECTOR
- MAGNETIC DETECTOR
- OPTICAL DETECTOR
- VIDEO DETECTOR
- AUDIO DETECTOR
- VC VIDEO CAMERA CABLE
- CABLE CLOSURE
- WIRELESS SENSOR
- WIRELESS RECEIVER
- WIRELESS TRANSCEIVER
- GUY WIRE
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

DATE PLOTTED : 4/7/2023 Y:\Glastonbury\70600S\70617.08_N.Main_Streetscape\Eng_Docs\Signals\TR_TCS_17-North-Main St@Laurel.dgn

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

benesch
120 Hebron Avenue, 2nd floor
Glastonbury, Connecticut
860-633-8341
www.benesch.com

REV # INTERSECTION #017-XXX

ENERGY BY - CITY	ADDRESS #
MAINT LEVEL - NORMAL	SERVICE - UNDERGROUND
	UNMETERED SERVICE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CITY OF BRISTOL
NORTH MAIN STREET AT
LAUREL STREET

SCALE 1" = 40'

TOWN: **BRISTOL**

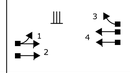
DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

PROJECT NO.

DRAWING NO. TCS-02

SHEET NO.

MOVEMENT DIAGRAM

	NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	FIRE PRE-EMPT
	NONE									
	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 ◄Y G	G Y R	R R R	R R R					G ◄— G ◄Y G
2	Y	G G G	G Y R	R R R	R R R					G G G
3	Y	R R R	G ① Y ② R ③	R R R	R ►④ R Y ►⑤ R ③					R R R
4	Y	R R R	G ① Y ② R ③	R R R	R R R					R R R
5	R	R R R	R R R	R R R	G Y R					R R R
P	OFF	DW DW DW	DW DW DW	WØ ⑥ DW DW	DW DW DW					DW DW DW
MIN		3 3 0	5 3 0	10 0 0	5 3 0					*
MAX		15 5 2	40 5 2	30 2 0	45 5 2					*
INTERVALS MIN GRN		3	10		7					*
WALK				10						
PED CLR				15						
VEH EXT		4			6					
MAX 1		7	30		35					
MAX 2		12	353		40					*
YELLOW		3	3	0.1	3					* 3
RED		1	1	0	1					1
ADD INIT										
MAX INIT										
TBR										
TTR										
MIN GAP										
MODE		LOCK	RECALL	LOCK	LOCK					
INIT START			THIS PHASE							

DETECTORS

IDENT	SIZE (WXL)	TYPE	MODE
D1	6'x20'	VIDEO	PRESENCE
D2	6'x25'	VIDEO	PRESENCE
S1	6'x6'	VIDEO	SYSTEM
S2	6'x6'	VIDEO	SYSTEM

SYSTEM LOC	COORDINATION TYPE:				
MASTER	PROGRAM			CYCLE	OFFSET
	FUNCTION	TIME	DAYS		SEC %
TO BE	FLASH				
DETERMINED	MAX 1	ALL TIMES	DAILY		
	MAX 2	FUTURE			

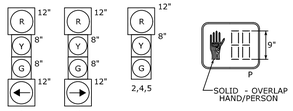
TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
CONTROLLER TO BE EQUIPPED WITH ALL NECESSARY INTERNAL COMMUNICATION COMPONANTS FOR INCLUSION INTO THE CITY MASTER TRAFFIC CLOSED LOOP SYSTEM.
OVERLAP CLEARANCE TO APPLY
① IF PRE-EMPT CALLED, SIGNAL TO BE Y
② IF PRE-EMPT CALLED, SIGNAL TO REMAIN Y
③ IF PRE-EMPT CALLED, SIGNAL TO REMAIN R
④ IF PRE-EMPT CALLED, ARROW TO BE Y
⑤ IF PRE-EMPT CALLED, ARROW TO REMAIN Y
⑥ IF PRE-EMPT CALLED DURING STEADY W, GO DIRECTLY TO PEDESTRIAN CLEARANCE
* - TIME NEEDED TO CLEAR EMERGENCY VEHICLES

OFFICE RECORD

REV #	TIR #	SM #	SIGNAL REVISED:
REVISED CURB LINE AND NUMBER OF LANES ALONG NORTH MAIN STREET . INSTALL NEW PEDESTAL, PEDESTRIAN SIGNAL AND PUSHBUTTON ALONG WEST SIDE.			

SIGNAL FACES



SIGNAL FACES 1&3 TO HAVE 12" BI-COLORED YELLOW AND GREEN ARROW

CONSTRUCTION NOTES:

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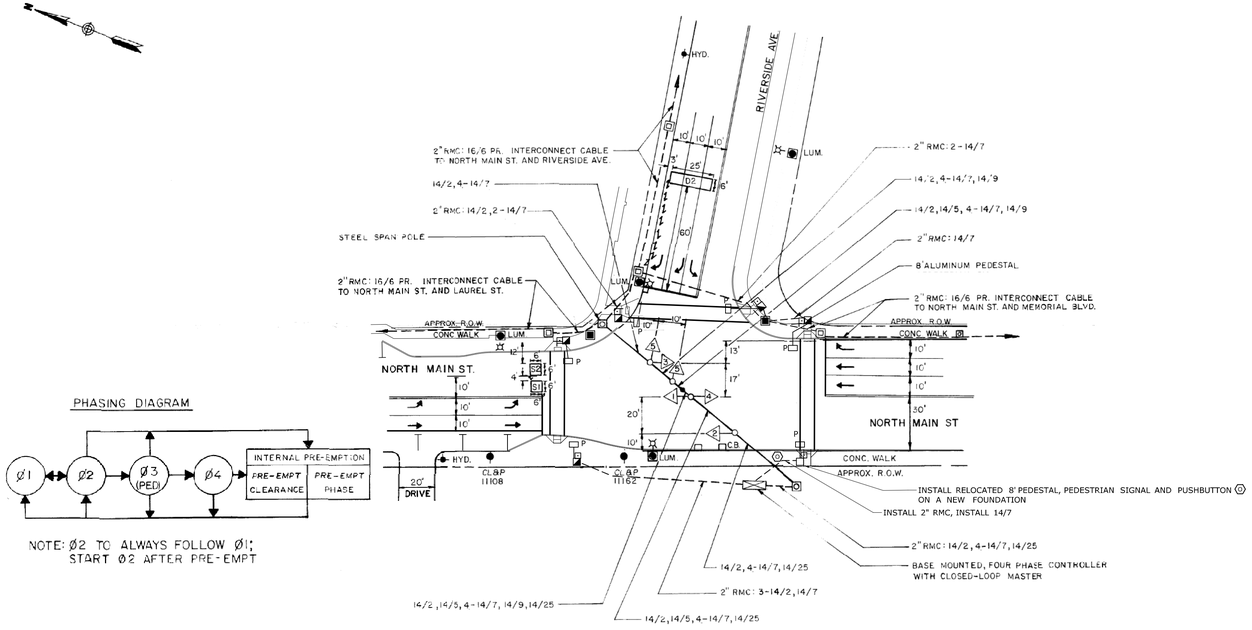
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⬡ REMOVE EXISTING SIGNAL CABLE BETWEEN PEDESTAL AND CONTROLLER CABINET. EXTEND THE EXISTING 2" RMC CONDUIT TO THE NEW PEDESTAL FOUNDATION. RELOCATE EXISTING, PEDESTAL, PEDESTRIAN SIGNAL AND PUSHBUTTONS TO THE NEW PEDESTAL FOUNDATION. INSTALL 14/7 CABLES BETWEEN THE CONTROLLER CABINET AND THE RELOCATED SIGNAL.

ALL PEDESTRIAN PUSH BUTTONS MUST MEET ADA STANDARDS AND SHALL BE ACCESSIBLE PEDESTRIAN SIGNAL TYPE.



PHASING DIAGRAM

NOTE: Ø2 TO ALWAYS FOLLOW Ø1; START Ø2 AFTER PRE-EMPT

NOTES:
SEE SEPARATE PLAN FOR EXISTING PAVEMENT MARKINGS

CITY SIGNAL

	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER		
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE		

REV # INTERSECTION # 017-

ENERGY BY TOWN | ADDRESS #
MAINT LEVEL | SERVICE POLE
UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

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

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

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

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

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

DATE PLOTTED : 4/7/2023 Y:\Glastonbury\70600S\70617.08_N.Main_Streetscape\Eng_Docs\Signals\TR_TCS_17-North-Maln@Riverside.dgn

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

NORTH MAIN STREET AT RIVERSIDE AVENUE

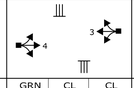
SCALE 1" = 40'

TOWN: **BRISTOL**

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

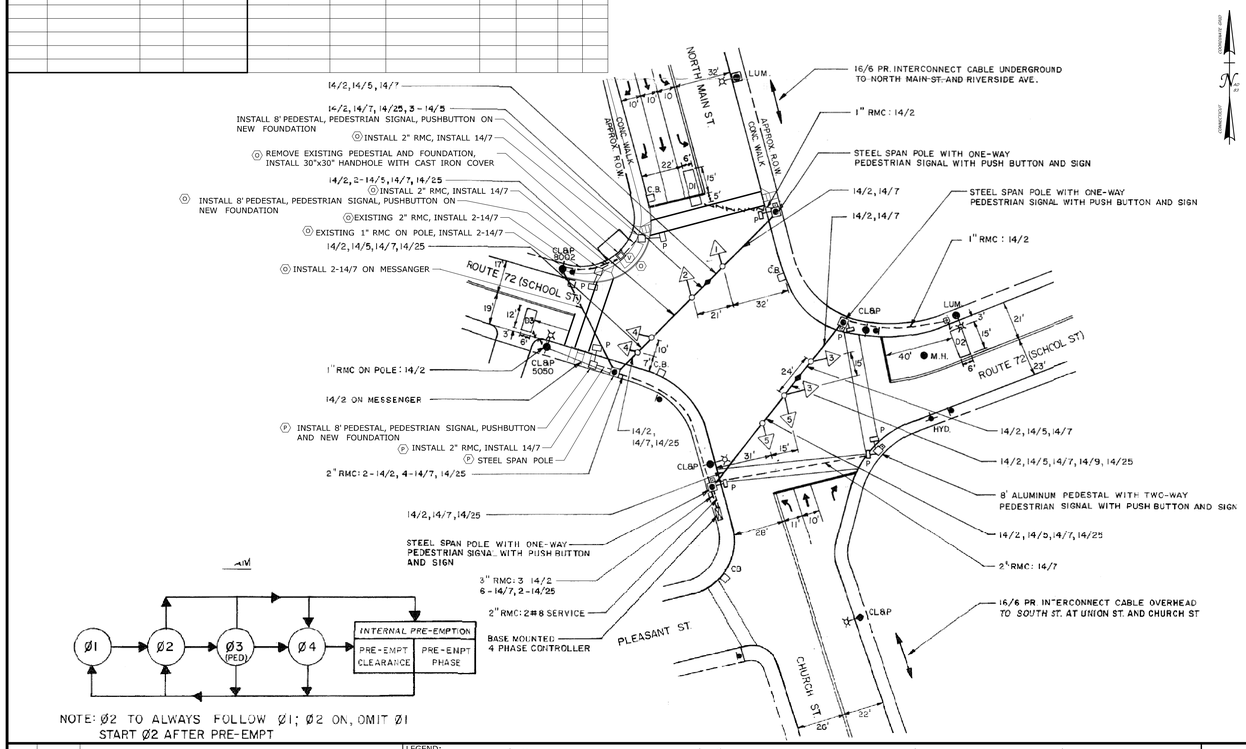
PROJECT NO.
DRAWING NO. TCS-03
SHEET NO.

MOVEMENT DIAGRAM

		NTOR	PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8			FIRE PRE-EMPT		
																												
		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	R ◄—	R ◄Y	G	G	Y	R	R	R	R	R	R	R													R ◄—	R ◄Y	G
	2	Y	G	G	G	G	Y	R	R	R	R	R	R	R													G	G	G
	3	R	R	R	R	R	R	R	R	R	R	G	Y	R													R	R	R
	4	R	R	R	R	R	R	R	R	R	R	G	Y	R													R	R	R
	5	Y	R	R	R	G	Y	R	R	R	R	R	R	R													R	R	R
	P	OFF	DW	DW	DW	DW	DW	DW		DW	DW	DW	DW	DW													DW	DW	DW
	MIN		3	3	0	5	3	0	10	0	0	15	3	0													*		
	MAX		20	5	2	45	5	3	25	2	0	45	5	2													*		
INTERVALS	MIN GRN		5			10						15															*		
	WALK								7																				
	PED CLR								17																				
	VEH EXT		3									5																	
	MAX 1		10			25						20															*		
	MAX 2		15			25						40															*		
	YELLOW			3			3			0.1			3															3	
	RED				1			2			0			2															1
	ADD INIT																												
	MAX INIT																												
	TBR																												
	TTR																												
	MIN GAP																												
MODE			LOCK			RECALL			LOCK																				
INIT START						THIS PHASE			LOCK																				

DETECTORS			
IDENT	SIZE (WXL)	TURNS	MODE
D1	6'x20'	3	PRESENCE
D2	6'x15'	3	PRESENCE
D3	6'x12'	3	PRESENCE

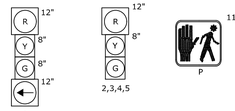
SYSTEM LOC	COORDINATION TYPE:					
MASTER	PROGRAM			CYCLE	OFFSET	
	FUNCTION	TIME	DAYS		SEC	%
TO BE	FLASH					
DETERMINED	MAX 1	ALL TIMES	DAILY			
	MAX 2	FUTURE				



TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY
CONTROLLER TO BE EQUIPPED WITH ALL NECESSARY INTERNAL COMMUNICATION COMPONANTS FOR INCLUSION INTO THE CITY MASTER TRAFFIC CLOSED LOOP SYSTEM.
OVERLAP CLEARANCE TO APPLY
1 TO REMAIN G/◄—, IF PRE-EMPT IS NEXT
2 IF PRE-EMPT CALLED DURING STEADY W, GO DIRECTLY TO PEDESTRIAN CLEARANCE
* - TIME NEEDED TO CLEAR EMERGENCY VEHICLES
Ø2 ON TO OMIT Ø1

OFFICE RECORD			
REV #	TIR #	SM #	SIGNAL REVISED:
			REVISED CURB LINES AND NUMBER OF LANES ALONG NORTH MAIN STREET. INSTALLED NEW PEDESTALS, PEDESTRIAN SIGNALS AND PUSHBUTTONS AT NW & SW CORNERS.

SIGNAL FACES



SIGNAL FACES 1&3 TO HAVE 12"
BI-COLORED YELLOW AND GREEN ARROW

CONSTRUCTION NOTES:

ALL MATERIAL AND CONSTRUCTION METHODS SHALL CONFORM TO THE FOLLOWING CURRENT D.O.T. DOCUMENTS WHICH CAN BE ACCESSED ON THE D.O.T. WEBSITE
* STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION,
* SUPPLEMENTAL SPECIFICATIONS TO THE STANDARD SPECIFICATIONS,
* SPECIAL PROVISIONS TO THE STANDARD SPECIFICATIONS,
* STANDARD INSTALLATION AND GUIDE DETAIL SHEETS.

ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING EXCEPT AS NOTED.

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

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF BRISTOL 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 FT. IF A MIN. 4 FT. IS UNAVAILABLE, NOTIFY THE ENGINEER AND CONTACT THE CITY OF BRISTOL.

Ⓞ REMOVE EXISTING SIGNAL CABLE BETWEEN PEDESTAL AND CONTROLLER CABINET. REMOVE EXISTING PEDESTAL, SIGNALS, PUSHBUTTON AND FOUNDATION AND INSTALL 30"x30" HANDHOLE WITH CAST IRON COVER. INSTALL 2-14/7 CABLES BETWEEN THE CONTROLLER CABINET AND THE NEW PEDESTRIAN SIGNALS AND PUSHBUTTONS.

Ⓟ REMOVE EXISTING SIGNAL CABLE BETWEEN SPAN POLE AND CONTROLLER CABINET. REMOVE EXISTING PEDESTRIAN SIGNAL AND PUSHBUTTON. INSTALL 14/7 CABLE BETWEEN THE CONTROLLER CABINET AND THE NEW PEDESTRIAN SIGNAL AND PUSHBUTTON.

ALL PEDESTRIAN PUSH BUTTONS MUST MEET ADA STANDARDS .

NOTES:

Ⓥ CAST IRON HANDHOLE COVER.

SEE SEPARATE PLAN FOR EXISTING PAVEMENT MARKINGS

CITY SIGNAL

	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER		
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE		

REV # INTERSECTION #017-243

ENERGY BY TOWN	ADDRESS #
MAINT LEVEL	SERVICE POLE
	UNMETERED SERVICE

NO.	DATE	REVISION DESCRIPTION

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

- PROPOSED WOOD SPAN POLE
- EXISTING WOOD SPAN POLE
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- PEDESTAL MOUNTING
- PEDESTRIAN PUSH BUTTON & SIGN
- DIRECTIONAL ARW. FOR PUSH BUTTON
- TRAFFIC SIGNAL FACE
- PEDESTRIAN SIGNAL FACE
- DET. LEADS IN SAW CUT
- PROPOSED RMC (RIGID METAL CONDUIT)
- EXISTING RMC (RIGID METAL CONDUIT)
- AUXILIARY TERMINATION CABINET
- AUXILIARY EQUIPMENT CABINET
- VIDEO DETECTION ZONE
- PROPOSED CONTROLLER
- EXISTING CONTROLLER
- LOOP DETECTOR
- SD SYSTEM DETECTOR
- MAGNETIC DETECTOR
- OPTICAL DETECTOR
- VIDEO DETECTOR
- AUDIO DETECTOR
- VC VIDEO CAMERA CABLE
- CABLE CLOSURE
- WIRELESS SENSOR
- WIRELESS RECEIVER
- WIRELESS TRANSCEIVER
- GUY WIRE
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

DATE PLOTTED : 4/7/2023 Y:\Glastonbury\70600S\70617.08_N.Main_Streetscape\Eng_Docs\Signals\TR_TCS_17-North-Main@School.dgn

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 72 (SCHOOL ST.) AT CHURCH ST. & NORTH MAIN ST.

SCALE 1" = 40'

TOWN: **BRISTOL**

PROJECT NO.

DRAWING NO. TCS-04

SHEET NO.

DRAWING TITLE: **SIGNAL PLAN**