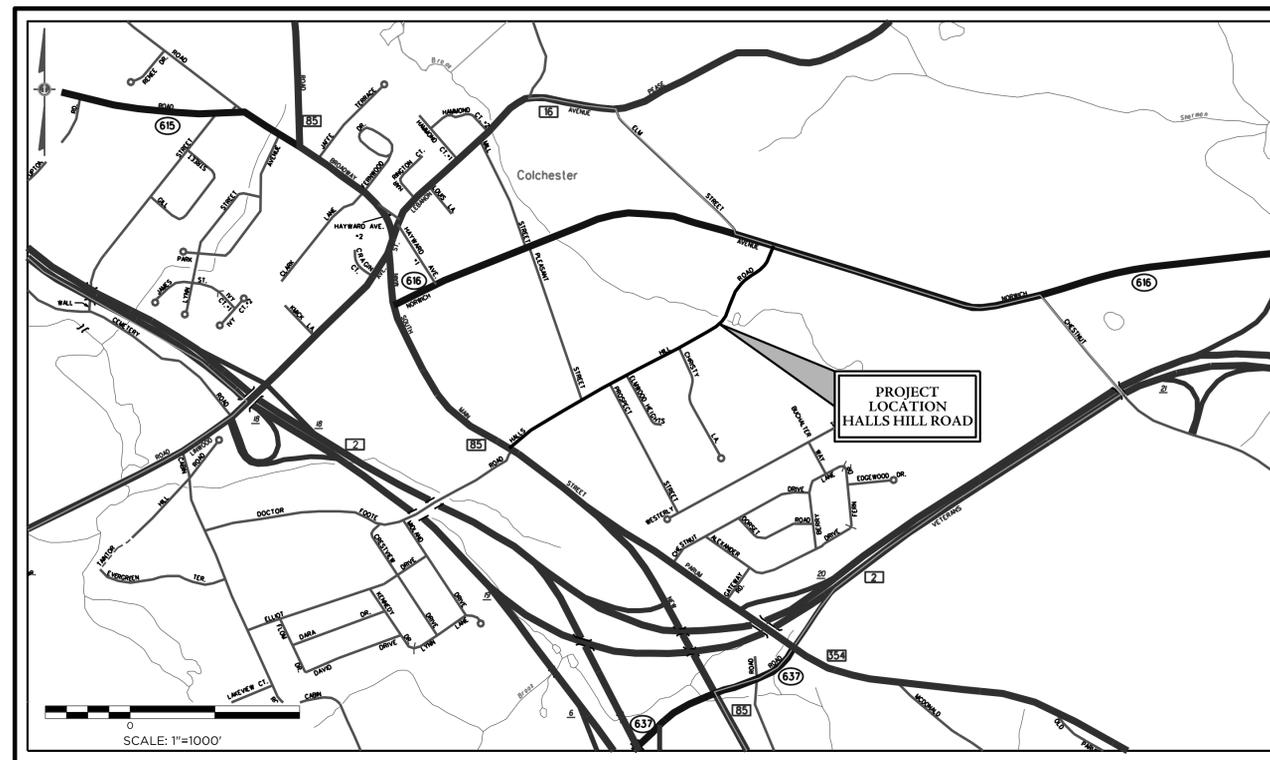


REHABILITATION OF HALLS HILL ROAD COLCHESTER, CT

LOTICIP PROJECT NO. L028-0001

PREPARED FOR

TOWN OF COLCHESTER
MARY BYLONE, FIRST SELECTMAN
TO BE MAINTAINED BY THE TOWN OF COLCHESTER



LOCATION MAP
SCALE: 1" = 1000'

CONSTRUCTION SPECIFICATIONS:
CONNECTICUT DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR
ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 817, DATED 2016
INCLUDING SUPPLEMENTS DATED JULY 2019; AND SPECIAL PROVISIONS.

LIST OF SHEETS

DATE: 02/03/20

| | |
|---|---|
| ROADWAY PLAN 1 | 1 |
| ROADWAY PLAN 2 | 2 |
| DETAILS 1 | 3 |
| DETAILS 2 | 4 |
| CT DOT TRAFFIC CONTROL SIGNAL PLAN (FOR INFORMATION ONLY) | |

LIST OF CTDOT STANDARD SHEETS

| | |
|------------|---|
| TR-1000_01 | GENERAL CLAUSES (TEST PROCEDURES) |
| TR-1111_01 | LOOP VEHICLE DETECTOR AND SAWCUT |
| TR-1208_01 | SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS |
| TR-1208_02 | METAL SIGN POSTS AND SIGN MOUNTING DETAILS |
| TR-1210_04 | PAVEMENT MARKING LINES AND SYMBOLS |
| TR-1210_08 | PAVEMENT MARKINGS FOR NON FREEWAYS |
| TR-1210_09 | PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RAILROAD GRADE CROSSINGS |
| TR-1220_01 | SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS |
| TR-1220_02 | CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES |

PREPARED BY:



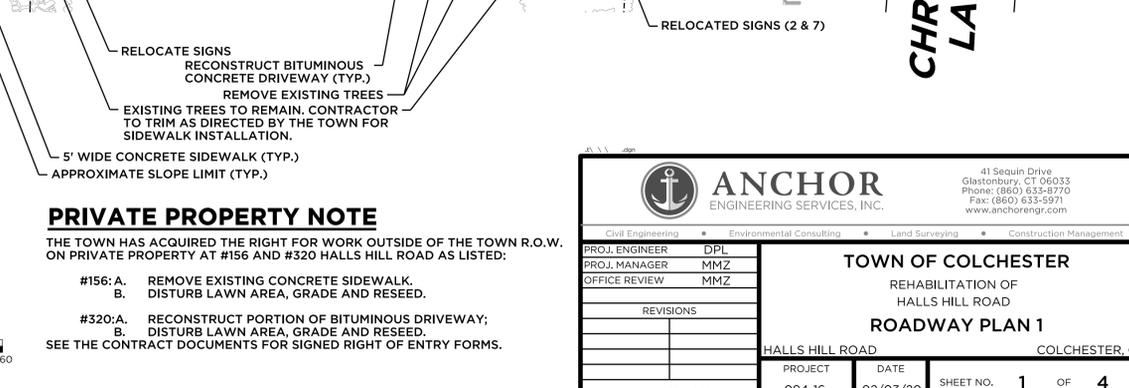
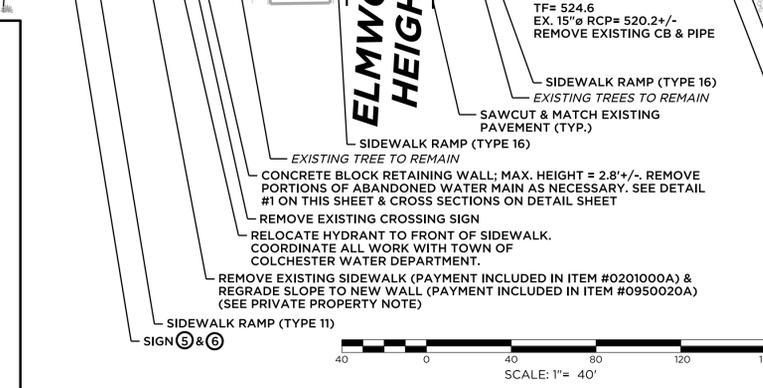
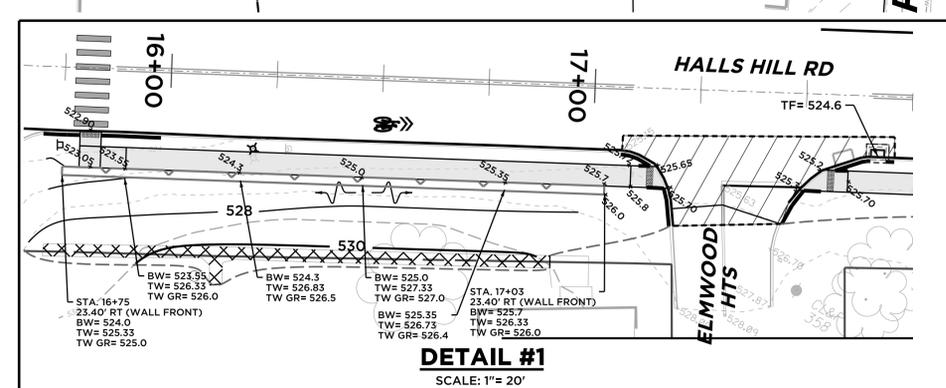
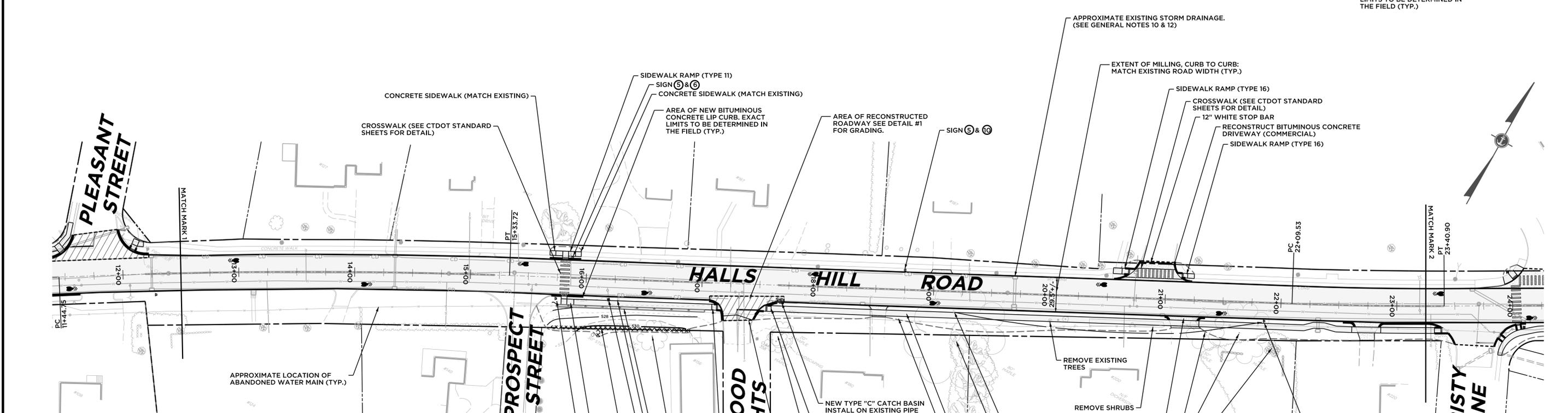
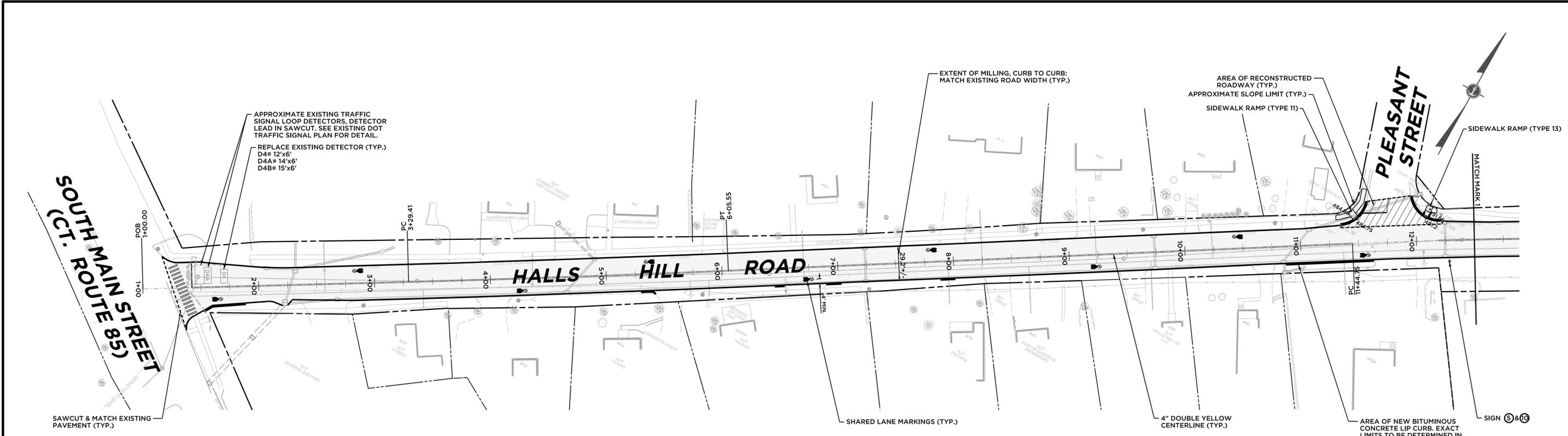
ANCHOR
ENGINEERING SERVICES, INC.

41 Sequin Drive
Glastonbury, CT 06033
Phone: (860) 633-8770
Fax: (860) 633-5971
www.anchorengr.com

Civil Engineering • Environmental Consulting • Land Surveying • Construction Management



| | | |
|--------------------|-----------------|------|
| APPROVED BY: | | |
| | | |
| TOWN OF COLCHESTER | FIRST SELECTMAN | DATE |



PRIVATE PROPERTY NOTE
 THE TOWN HAS ACQUIRED THE RIGHT FOR WORK OUTSIDE OF THE TOWN R.O.W. ON PRIVATE PROPERTY AT #156 AND #320 HALLS HILL ROAD AS LISTED:

#156: A. REMOVE EXISTING CONCRETE SIDEWALK.
 B. DISTURB LAWN AREA, GRADE AND RESEED.

#320: A. RECONSTRUCT PORTION OF BITUMINOUS DRIVEWAY;
 B. DISTURB LAWN AREA, GRADE AND RESEED.
 SEE THE CONTRACT DOCUMENTS FOR SIGNED RIGHT OF ENTRY FORMS.



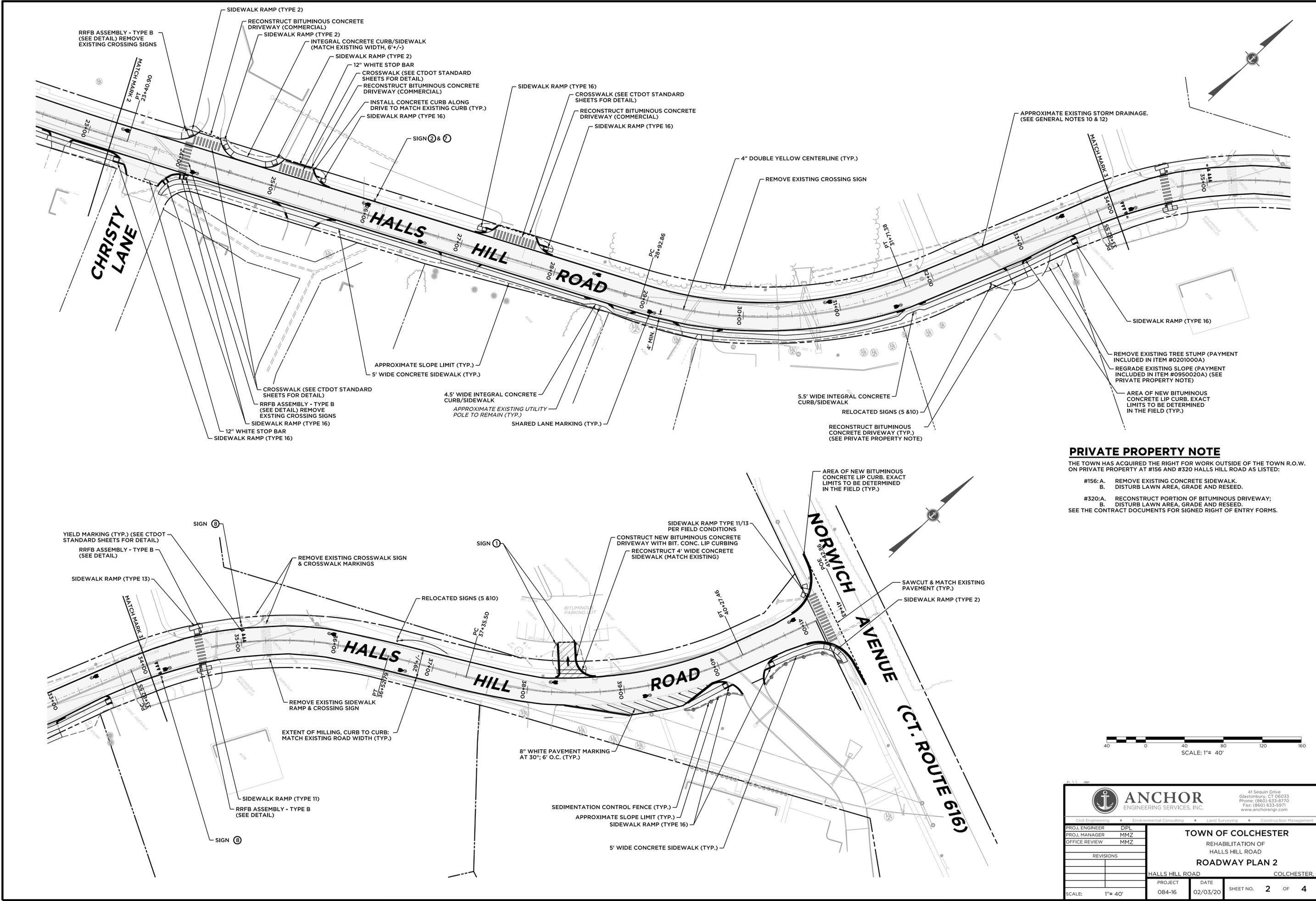
ANCHOR
ENGINEERING SERVICES, INC.

41 Sequin Drive
Glastonbury, CT 06033
Phone: (860) 633-9370
Fax: (860) 633-5971
www.anchorengr.com

TOWN OF COLCHESTER
REHABILITATION OF
HALLS HILL ROAD
ROADWAY PLAN 1

HALLS HILL ROAD COLCHESTER, CT

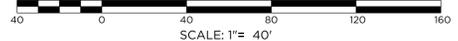
| | | | |
|----------------|-----|-----------------|----------|
| PROJ. ENGINEER | DPL | DATE | 084-16 |
| PROJ. MANAGER | MMZ | DATE | 02/03/20 |
| OFFICE REVIEW | MMZ | SHEET NO. | 1 OF 4 |
| REVISIONS | | SCALE: 1" = 40' | |



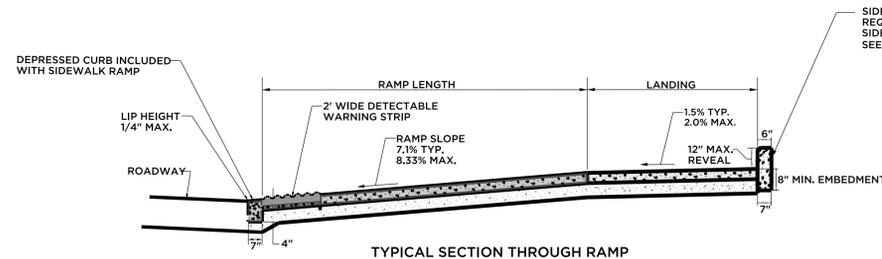
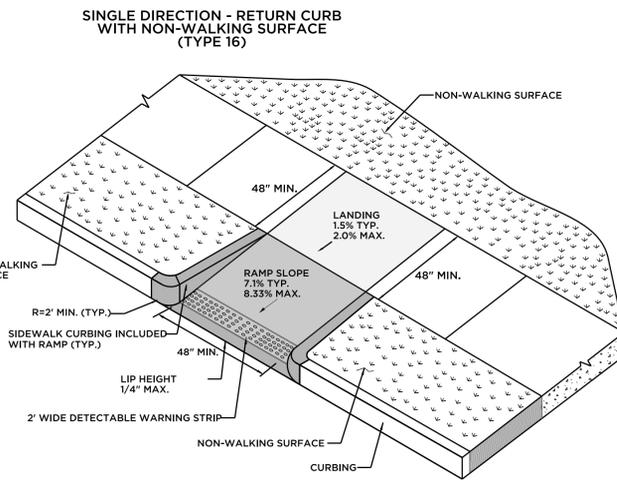
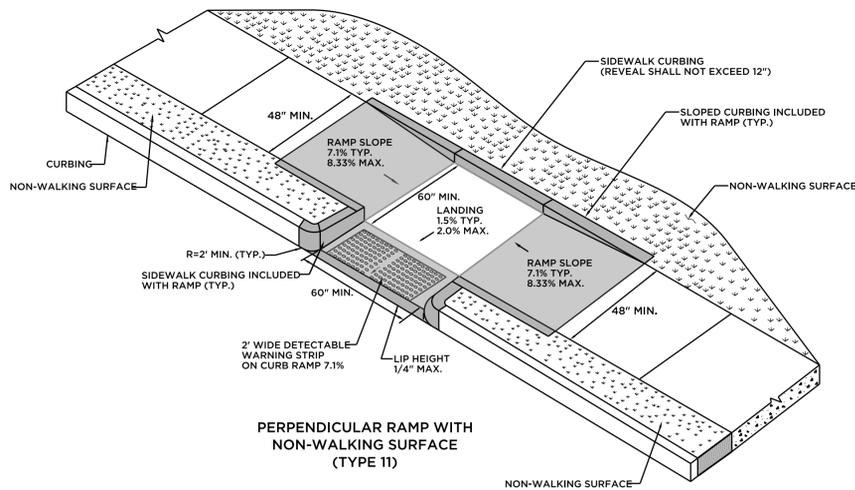
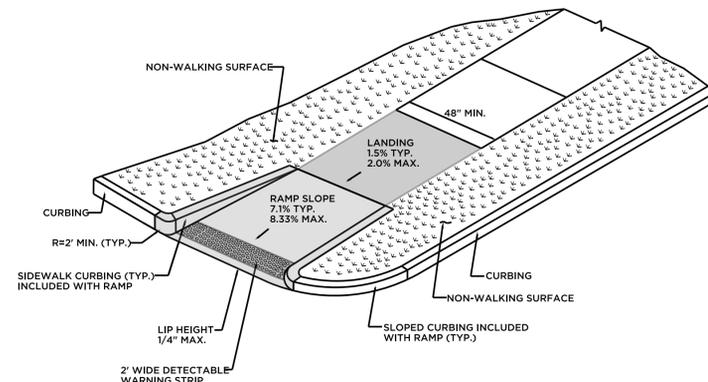
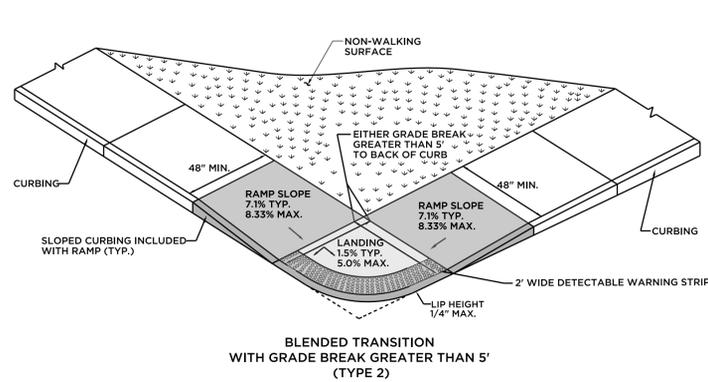
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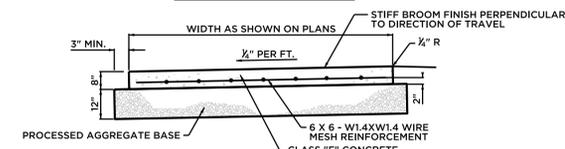
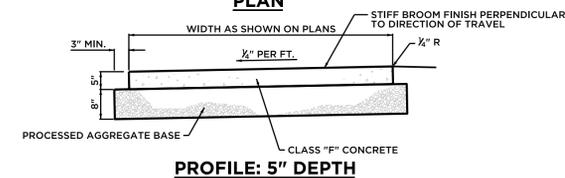
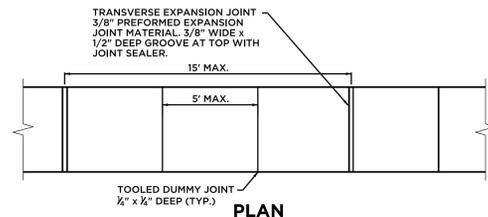
| | | | |
|---|------------------|--|---------------------------------------|
| <p>ANCHOR ENGINEERING SERVICES, INC.</p> <p>41 Sequin Drive Glastonbury, CT 06033 Phone: (860) 633-9370 Fax: (860) 633-5971 www.anchorengr.com</p> | | <p>TOWN OF COLCHESTER REHABILITATION OF HALLS HILL ROAD ROADWAY PLAN 2</p> | |
| | | <p>HALLS HILL ROAD COLCHESTER, CT</p> | |
| <p>PROJ. ENGINEER DPL PROJ. MANAGER MMZ OFFICE REVIEW MMZ</p> | <p>REVISIONS</p> | <p>PROJECT 084-16 DATE 02/03/20</p> | <p>SHEET NO. 2 OF 4</p> |



SIDEWALK AND RAMP GENERAL NOTES:

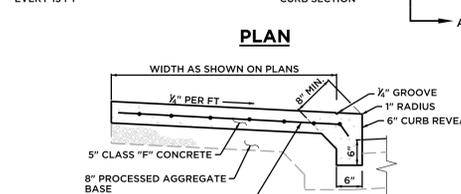
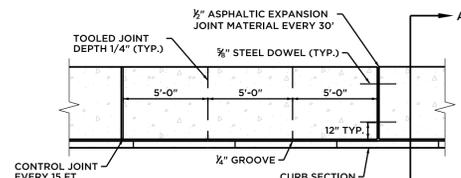
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/8 INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.

SIDEWALK RAMPS
NOT TO SCALE

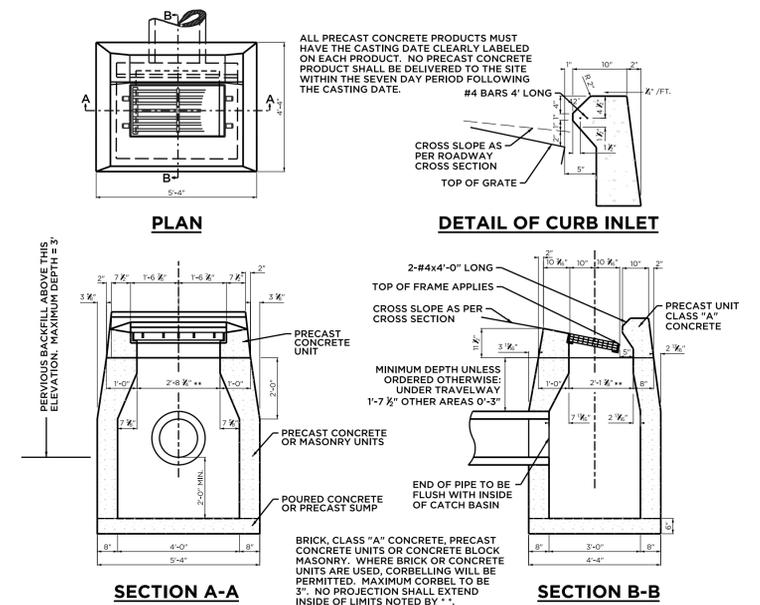


NOTE: PROVIDE EXPANSION JOINT AT CONSTRUCTION JOINTS, SAWCUTS & OTHER LOCATIONS WHERE SIDEWALK ABUTS EXISTING CONCRETE.

CONCRETE SIDEWALK
NOT TO SCALE



INTEGRAL CONCRETE SIDEWALK AND CURB
NOT TO SCALE



NOTES

1. WHERE TYPE "C" CATCH BASIN IS CONSTRUCTED IN PAVEMENT AREA, THE NORMAL CROSS SLOPE OF THE GUTTER SHALL BE VARIED TO MATCH CROSS SLOPE OF GRATE.
2. WALLS OF ALL CATCH BASINS OVER 12 FEET DEEP TO BE INCREASED TO 12" THICK. INSIDE DIMENSIONS TO REMAIN THE SAME.

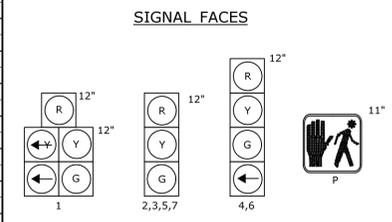
TYPE "C" CATCH BASIN

NOT TO SCALE

| | | | |
|--|-----|---|--------------|
| <p>ANCHOR ENGINEERING SERVICES, INC.</p> <p>Civil Engineering • Environmental Consulting • Land Surveying • Construction Management</p> <p>41 Sequin Drive Glastonbury, CT 06033 Phone: (860) 633-9370 Fax: (860) 633-5971 www.anchorengr.com</p> | | <p>TOWN OF COLCHESTER REHABILITATION OF HALLS HILL ROAD DETAILS 2</p> | |
| | | <p>HALLS HILL ROAD COLCHESTER, CT</p> | |
| PROJ. ENGINEER | DPL | PROJECT | DATE |
| PROJ. MANAGER | MMZ | 084-16 | 02/03/20 |
| OFFICE REVIEW | MMZ | SCALE: | NOT TO SCALE |
| REVISIONS | | SHEET NO. 4 OF 4 | |

| MOVEMENT DIAGRAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|----------|------------|-----|--------------------|------------|----|---------|-----|----|----------|-----|----|---------|----------|----|---------|-----|----|---------|-----|----------|---------|-----|----|----|-----|----|----|-----|----|----|---|--|
| NTOR | PHASE 1 | | | PHASE 2 PRE-EMPT 1 | | | PHASE 3 | | | PHASE 4 | | | PHASE 5 | | | PHASE 6 | | | PHASE 7 | | | PHASE 8 | | | | | | | | | | | |
| | FLASH | GRN | CL | CL | GRN | CL | CL | GRN | CL | CL | GRN | CL | CL | GRN | CL | CL | GRN | CL | CL | GRN | CL | CL | GRN | CL | CL | GRN | CL | CL | GRN | CL | CL | | |
| F A C E # | 1 | Y | ←G | ←Y | G | G | Y | R | R | R | R | R | R | R | R | R | | | | | | | | | | | | | | | | | |
| | 2 | Y | G | G | G | Y | R | R | R | R | R | R | R | R | R | R | | | | | | | | | | | | | | | | | |
| | 3 | Y | R | R | R | G | Y | R | R | R | R | R | R | R | R | R | | | | | | | | | | | | | | | | | |
| | 4 | 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 | R | R | | |
| | 5 | 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 | R | R | | |
| | 6 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | |
| | 7 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | |
| P | OFF | | | DW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I N T E R V A S | MIN GRN | | 4 | | 15 | | | | | | 5 | | | 5 | | | | | | | | | | | | | | | | | | | |
| | WALK | | | | | | | | | | 7 | | | | | | | | | | | | | | | | | | | | | | |
| | PED CLR | | | | | | | | | | 11 | | | | | | | | | | | | | | | | | | | | | | |
| | VEH EXT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MAX 1 | | 4 | | 2.5 | | | | | | 1.5 | | | 1.5 | | | | | | | | | | | | | | | | | | | |
| | MAX 2 | | 7 | | 4.5 | | | | | | 20 | | | 15 | | | | | | | | | | | | | | | | | | | |
| | YELLOW | | 3.0 | | | | | | | | 3.5 | | | 4.0 | | | | | | | | | | | | | | | | | | | |
| | RED | | | 1.0 | | | | | | | 1.5 | | | 0 | | | | | | | | | | | | | | | | | | | |
| | ADD INIT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MAX INIT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TBR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TTR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIN GAP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MODE | | MAX RECALL | | | MIN RECALL | | | | | NON-LOCK | | | | NON-LOCK | | | | | | | NON-LOCK | | | | | | | | | | | | |
| INT START | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|--------------------------------------|----------------------------|
| TECHNICAL NOTES | OFFICE RECORD |
| STANDARD OVERLAP SKIP FEATURES APPLY | REV # 8 |
| PHASE 2 ON TO OMIT PHASE 1 | TIR # N/A |
| | SM # 100798 |
| | SIGNAL REVISED: 09/14/2016 |

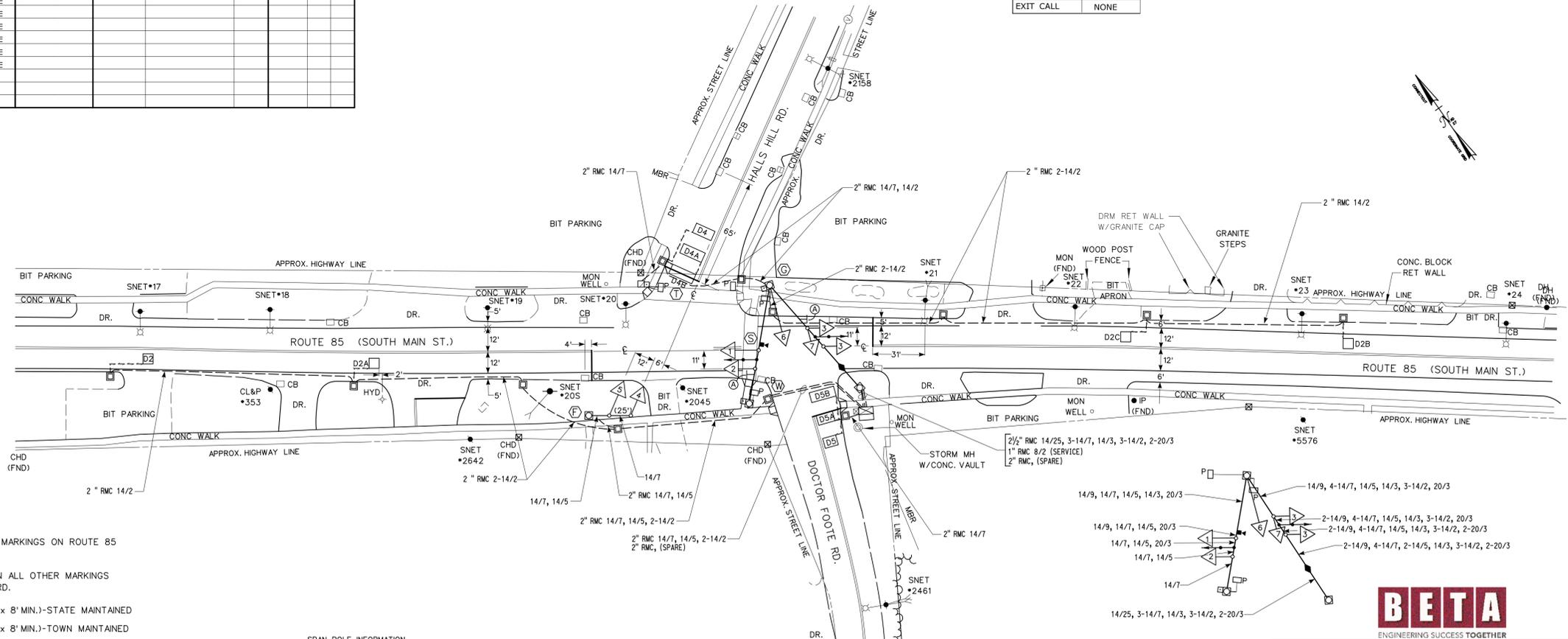


ALL INDICATIONS HAVE LED LAMPS

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. | 11 |
| HOLD GREEN | 15 |
| HOLD YELLOW | 3.5 |
| HOLD RED | 1.5 |
| HOLD PHASE | 2 |
| EXIT PHASE | 4 |
| EXIT CALL | NONE |

| IDENT | SIZE (WXL) | TURNS | MODE | SYSTEM LOC MASTER | COORDINATION TYPE: NONE | | | | CYCLE | OFFSET |
|--------|------------|-------|----------|-------------------|-------------------------|-----------------|-------|---|-------|--------|
| | | | | | FUNCTION | PROGRAM TIME | DAYS | % | | |
| D2,D2A | 6' x 6' | 4 | PRESENCE | | FLASH | FUTURE | DAILY | | | |
| D2B | 6' x 6' | 5 | PRESENCE | | MAX 1 | ALL OTHER TIMES | | | | |
| D2C | 6' x 6' | 4 | PRESENCE | | MAX 2 | 1500 - 1800 | M - F | | | |
| D4 | 12' x 6' | 3 | PRESENCE | | | | | | | |
| D4A | 14' x 6' | 3 | PRESENCE | | | | | | | |
| D4B | 15' x 6' | 3 | PRESENCE | | | | | | | |
| D5 | 8' x 6' | 3 | PRESENCE | | | | | | | |
| D5A | 10' x 6' | 3 | PRESENCE | | | | | | | |
| D5B | 12' x 6' | 3 | PRESENCE | | | | | | | |



NOTES:

STATE TO MAINTAIN ALL PAVEMENT MARKINGS ON ROUTE 85 AND ALL STOP BARS.

TOWN OF COLCHESTER TO MAINTAIN ALL OTHER MARKINGS ON HALLS HILL RD. & DR. FOOTE RD.

Ⓢ BAR TYPE CROSSWALK (16" - 16" x 8" MIN.)-STATE MAINTAINED

Ⓣ BAR TYPE CROSSWALK (16" - 16" x 8" MIN.)-TOWN MAINTAINED

TOWN OF COLCHESTER TO OWN AND MAINTAIN PRE-EMPTION EQUIPMENT.

SIGN LEGEND:

| | |
|---|--------------------------------------|
| Ⓢ | SPAN MOUNT 31-0823(NO TURN ON RED) |
|---|--------------------------------------|

SPAN POLE INFORMATION

| | |
|---|---|
| Ⓢ | HEIGHT 28', B.C. 20", LOAD AT YIELD 6100 lbs. |
| Ⓣ | HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs. |

MAST ARM INFORMATION

| ID | SHAFT HEIGHT | LENGTH | LOAD CASE |
|----|--------------|--------|-----------|
| Ⓢ | 20' | 25' | 25-1W |

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

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
SYSTEM DETECTOR
MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

SIDEWALK RAMP
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSMITTER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

BETA ENGINEERING SUCCESS TOGETHER

| | | | | |
|---------------|---------|------|------------|------|
| ENGINEER | TRAFFIC | DATE | ELECTRICAL | DATE |
| DRAWN BY | | | | |
| CHECKED BY | | | | |
| SUBMITTED BY | | | | |
| APPROVED BY | | | | |
| APPROVED DATE | | | | |

REV #8 INTERSECTION # 028-209

ENERGY BY - TOWN ADDRESS #
MAINT LEVEL 5 SERVICE POLE - SNET 21
UNMETERED SERVICE

TOWN: **COLCHESTER**

PROJECT NO. 172-440
DRAWING NO. **TRAFFIC CONTROL SIGNAL PLAN**
SHEET NO.

ROUTE 85 (SOUTH MAIN ST.) AT HALLS HILL ROAD & DOCTOR POLE RD.

DATE PLOTTED: 10/17/2016\DOT-SDCENG07V\CTDOT_Projects\0172-0440\Traffic\3-Final Design\028 Colchester FD\Microstation Files\TR_TCS_028_209_008.dgn

SCALE 1" = 40'