

**LOCATION MAP**

N.T.S.

# FINAL DESIGN PLANS

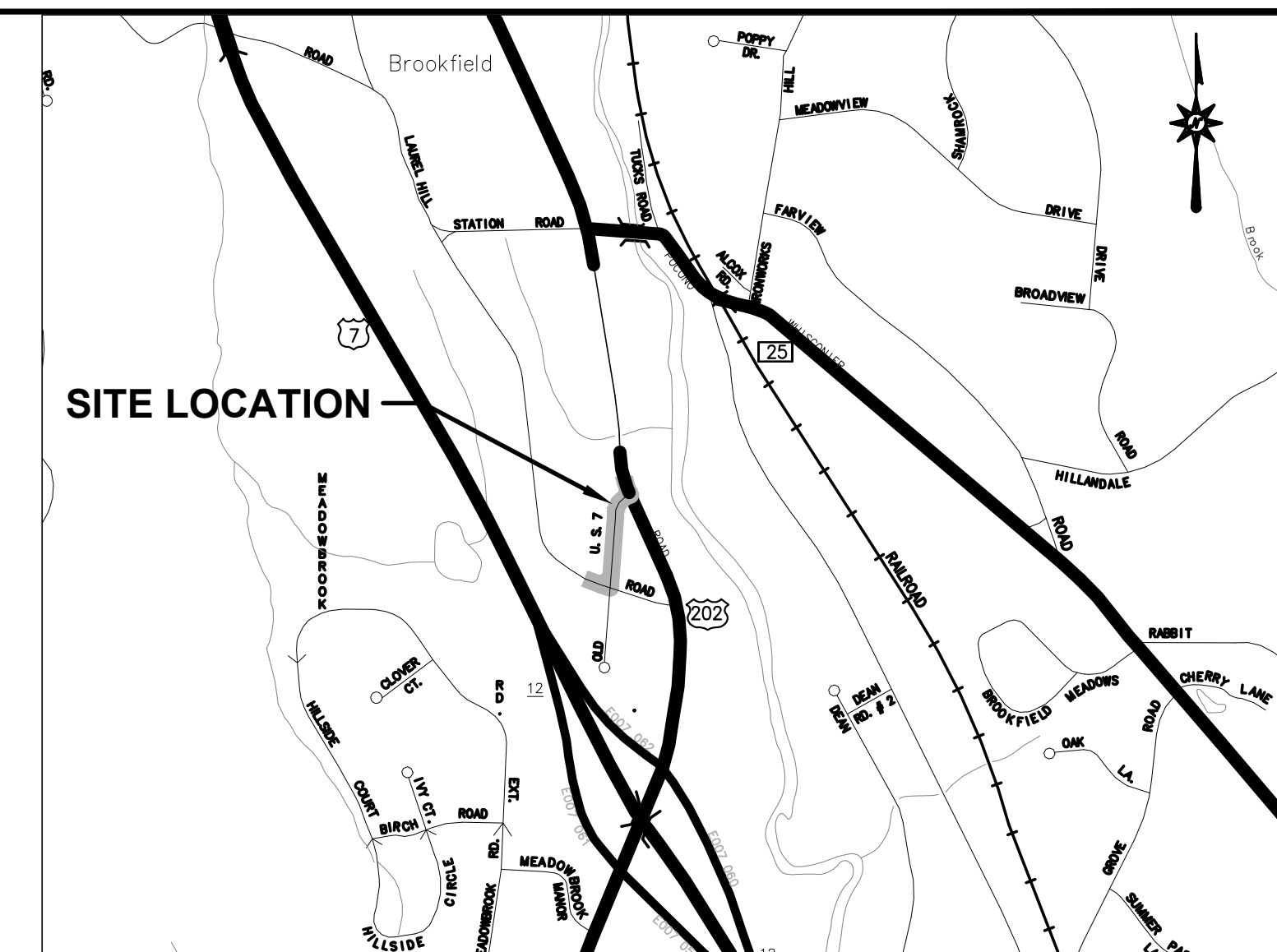
## FOR

### BROOKFIELD STREETScape PHASE III

### OLD ROUTE 7 & LAUREL HILL ROAD

## TOWN OF BROOKFIELD, CT

LOTICIP #L018-0002



**VICINITY MAP**

SCALE: 1"=1000'

PREPARED FOR:

## TOWN OF BROOKFIELD

### OLD ROUTE 7 & LAUREL HILL ROAD

### BROOKFIELD, CONNECTICUT, 06804

ROAD	MAINTENANCE RESPONSIBILITY	LENGTH
ROUTE 202	STATE	255 FEET
OLD ROUTE 7	TOWN	745 FEET
LAUREL HILL ROAD	TOWN	400 FEET

**GENERAL NOTES:**

CONNECTICUT DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 818, DATED 2020

ALL HORIZONTAL GEOMETRY ON THIS PROJECT IS BASED ON HORIZONTAL DATUM NAD83.

ALL ELEVATIONS ON THIS PROJECT BASED ON NAVD88.

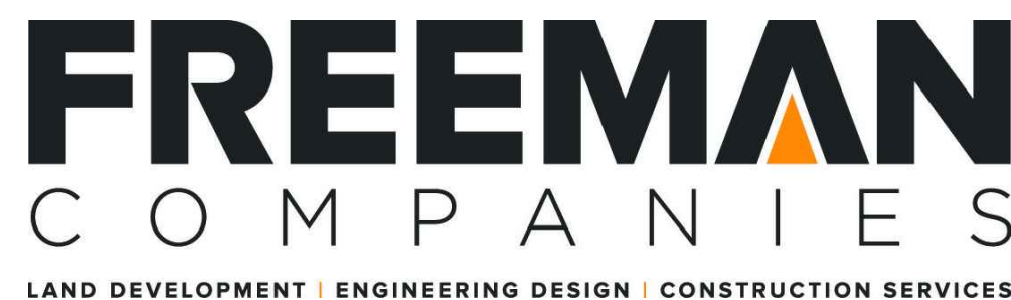
DESIGN STANDARDS:

TOWN OF BROOKFIELD DESIGN STANDARDS

CONNECTICUT DEPARTMENT OF TRANSPORTATION HIGHWAY DESIGN MANUAL, 2003 EDITION.

A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS 2011 EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).

PREPARED BY:



36 JOHN STREET  
HARTFORD, CONNECTICUT 06106  
TEL: (860) 251-9550  
FAX: (860) 986 -7161

TOWN OF BROOKFIELD, CONNECTICUT

APPROVED BY:

STEVE DUNN  
FIRST SELECTMAN  
11/13/20  
DATE



DESIGN BY: YUYANG LIN, P.E., PTOE.

CT. PROFESSIONAL ENGINEER REG. NO. 23422

DATE: NOVEMBER 2020



**CONTENTS**

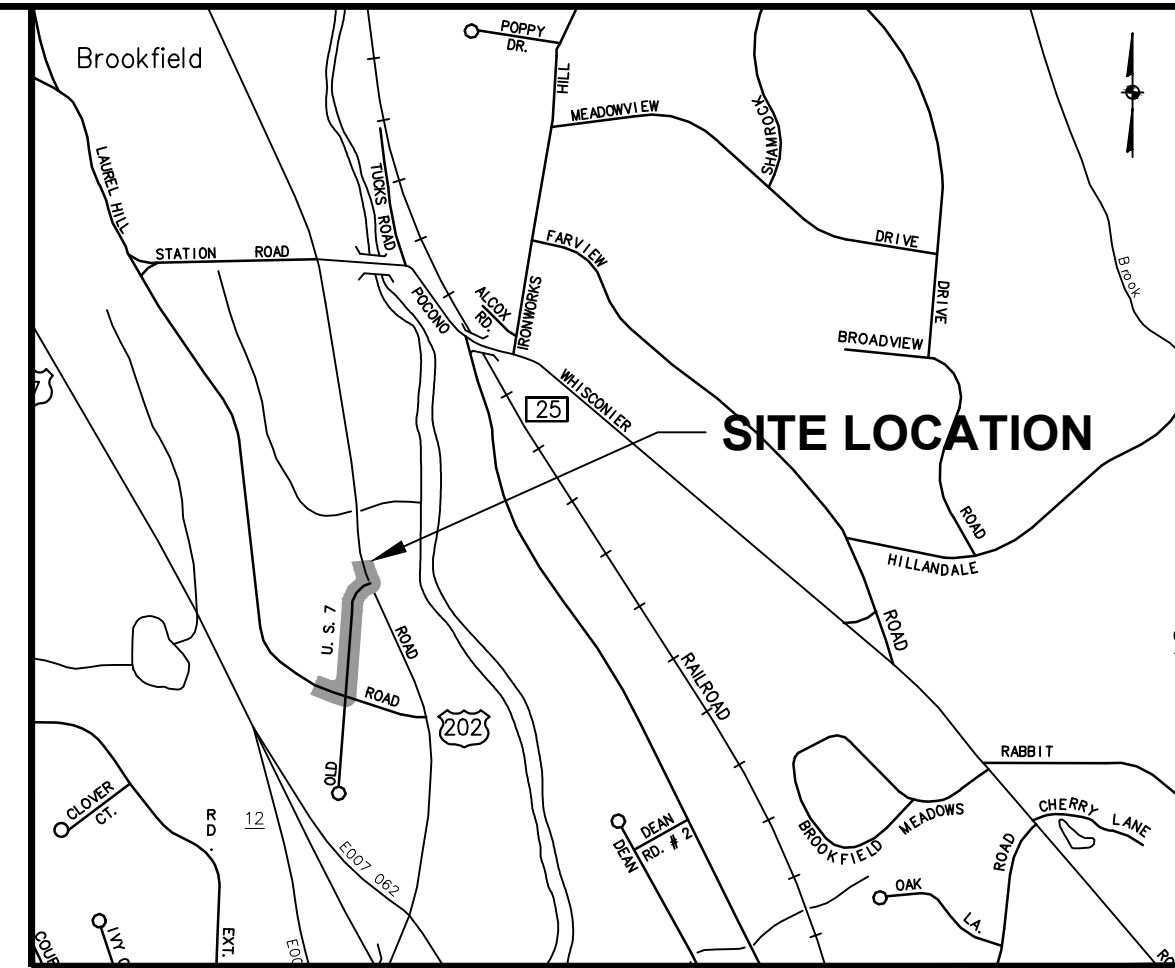
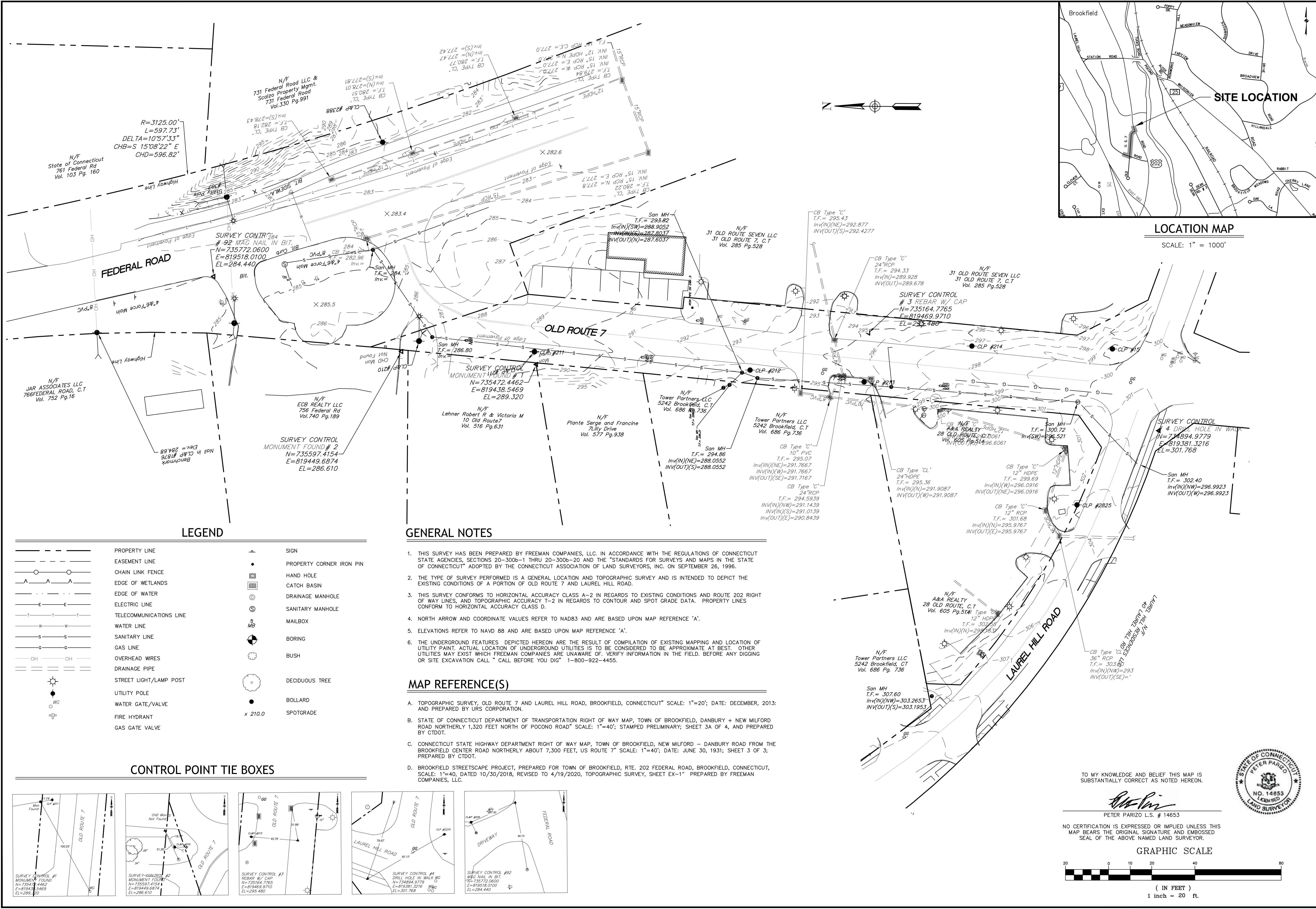
	TITLE SHEET
EX-1	TOPOGRAPHIC SURVEY
TYP-1	TYPICAL SECTION
MDS-1-11	MISCELLANEOUS DETAILS
PLN-1-3	ROADWAY PLAN
PRO-1-2	ROADWAY PROFILE
GRD-1	GRADING PLAN
SPM-1-3	SIGNAGE & PAVEMENT MARKING PLAN
LLP-1-3	LANDSCAPING & LIGHTING PLAN
LP-1	LIGHTING PHOTOMETRIC PLAN
XSC-1-6	CROSS SECTIONS

CTDOT HIGHWAY STANDARD SHEETS - 5 SHEETS  
CTDOT TRAFFIC STANDARD SHEETS - 7 SHEETS

**DATES**

ISSUE DATE: NOVEMBER 2020  
REVISION: MARCH 2021

FREEMAN COMPANIES, LLC - W:\2019\2019-0106-BROOKFIELD Phase 3\Survey\DWG\2019\_0106-Phase 3.dwg Nov 17, 2020-11:06am Plotted By: csharpent



LOCATION MAP  
SCALE: 1" = 1000'

LEGEND

Table with 3 columns: Symbol, Description, and Symbol. Includes symbols for Property Line, Easement Line, Chain Link Fence, Edge of Wetlands, Edge of Water, Electric Line, Telecommunications Line, Water Line, Sanitary Line, Gas Line, Overhead Wires, Drainage Pipe, Street Light/Lamp Post, Utility Pole, Water Gate/Valve, Fire Hydrant, Gas Gate Valve, Sign, Property Corner Iron Pin, Hand Hole, Catch Basin, Drainage Manhole, Sanitary Manhole, Mailbox, Boring, Bush, Deciduous Tree, Bollard, and Spotgrade.

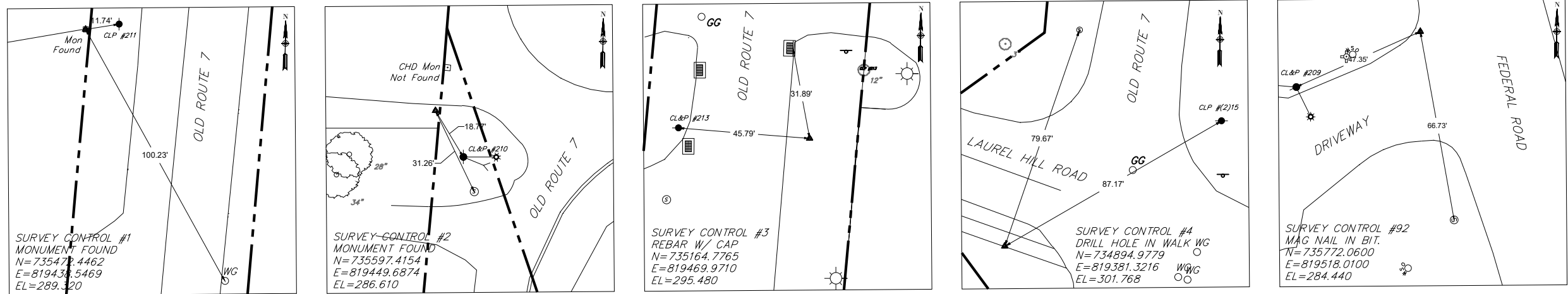
GENERAL NOTES

- 1. THIS SURVEY HAS BEEN PREPARED BY FREEMAN COMPANIES, LLC. IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THRU 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
2. THE TYPE OF SURVEY PERFORMED IS A GENERAL LOCATION AND TOPOGRAPHIC SURVEY AND IS INTENDED TO DEPICT THE EXISTING CONDITIONS OF A PORTION OF OLD ROUTE 7 AND LAUREL HILL ROAD.
3. THIS SURVEY CONFORMS TO HORIZONTAL ACCURACY CLASS A-2 IN REGARDS TO EXISTING CONDITIONS AND ROUTE 202 RIGHT OF WAY LINES, AND TOPOGRAPHIC ACCURACY T-2 IN REGARDS TO CONTOUR AND SPOT GRADE DATA. PROPERTY LINES CONFORM TO HORIZONTAL ACCURACY CLASS D.
4. NORTH ARROW AND COORDINATE VALUES REFER TO NAD83 AND ARE BASED UPON MAP REFERENCE 'A'.
5. ELEVATIONS REFER TO NAVD 88 AND ARE BASED UPON MAP REFERENCE 'A'.
6. THE UNDERGROUND FEATURES DEPICTED HEREON ARE THE RESULT OF COMPILATION OF EXISTING MAPPING AND LOCATION OF UTILITY PAINT. ACTUAL LOCATION OF UNDERGROUND UTILITIES IS TO BE CONSIDERED TO BE APPROXIMATE AT BEST. OTHER UTILITIES MAY EXIST WHICH FREEMAN COMPANIES ARE UNAWARE OF. VERIFY INFORMATION IN THE FIELD. BEFORE ANY DIGGING OR SITE EXCAVATION CALL " CALL BEFORE YOU DIG" 1-800-922-4455.

MAP REFERENCE(S)

- A. TOPOGRAPHIC SURVEY, OLD ROUTE 7 AND LAUREL HILL ROAD, BROOKFIELD, CONNECTICUT" SCALE: 1"=20'; DATE: DECEMBER, 2013; AND PREPARED BY URS CORPORATION.
B. STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP, TOWN OF BROOKFIELD, DANBURY + NEW MILFORD ROAD NORTHERLY 1,320 FEET NORTH OF POCONO ROAD" SCALE: 1"=40'; STAMPED PRELIMINARY; SHEET 3A OF 4, AND PREPARED BY CTDOT.
C. CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP, TOWN OF BROOKFIELD, NEW MILFORD - DANBURY ROAD FROM THE BROOKFIELD CENTER ROAD NORTHERLY ABOUT 7,300 FEET, US ROUTE 7" SCALE: 1"=40'; DATE: JUNE 30, 1931; SHEET 3 OF 3; PREPARED BY CTDOT.
D. BROOKFIELD STREETScape PROJECT, PREPARED FOR TOWN OF BROOKFIELD, RTE. 202 FEDERAL ROAD, BROOKFIELD, CONNECTICUT, SCALE: 1"=40, DATED 10/30/2018, REVISED TO 4/19/2020, TOPOGRAPHIC SURVEY, SHEET EX-1" PREPARED BY FREEMAN COMPANIES, LLC.

CONTROL POINT TIE BOXES

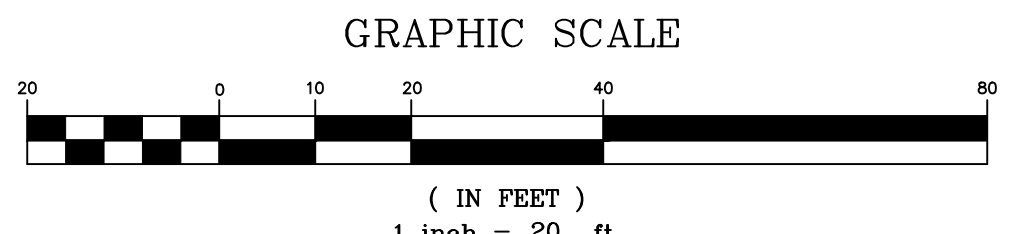


TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

PETER PARIZO L.S. # 14653

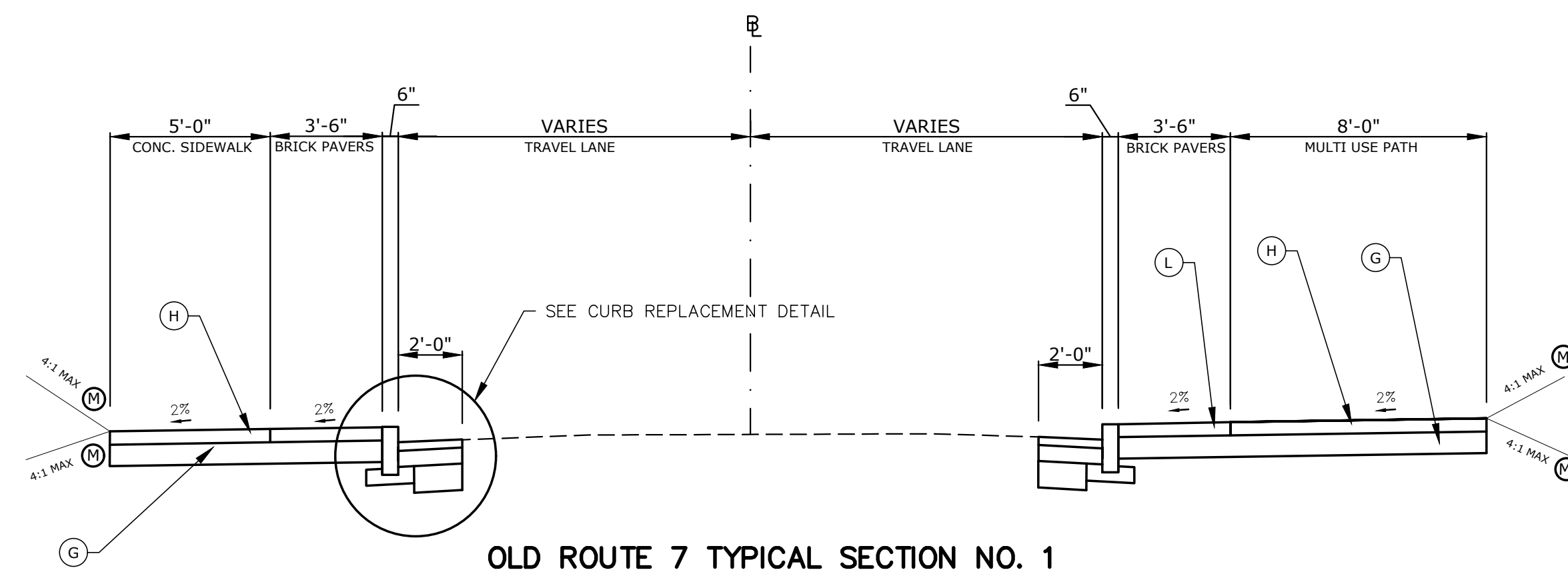


NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE NAMED LAND SURVEYOR.



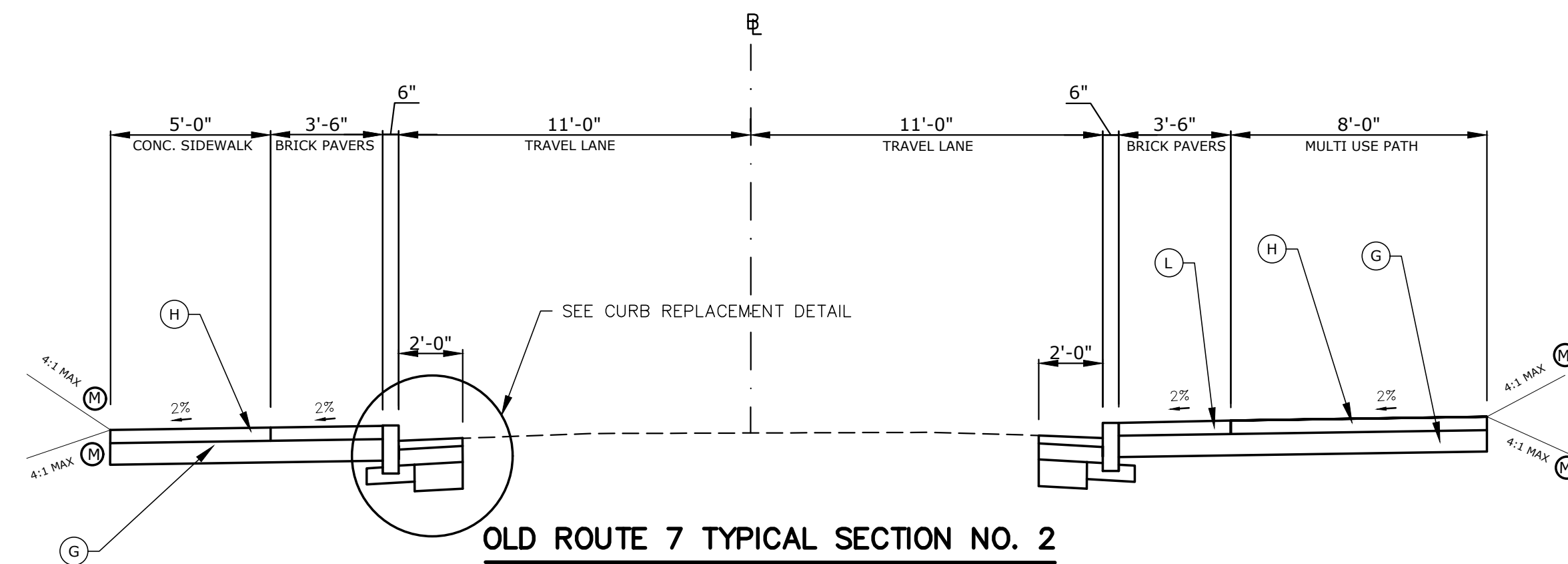
Vertical sidebar containing: FREEMAN COMPANIES logo, FREEMAN COMPANIES, LLC contact info (34 JOHN STREET, HARTFORD, CT 06106), ELEVATE YOUR EXPECTATIONS slogan, BROOKFIELD STREETScape PHASE III OLD ROUTE 7 & LAUREL HILL ROAD, BROOKFIELD, CONNECTICUT, and a table with columns for NO., DATE, DESCRIPTION, and REVISIONS.

FREEMAN COMPANIES, LLC - R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MSH\_2019\_0106\_TYP.dwg Mar 26, 2021-3:12pm Plotted By: caupremant



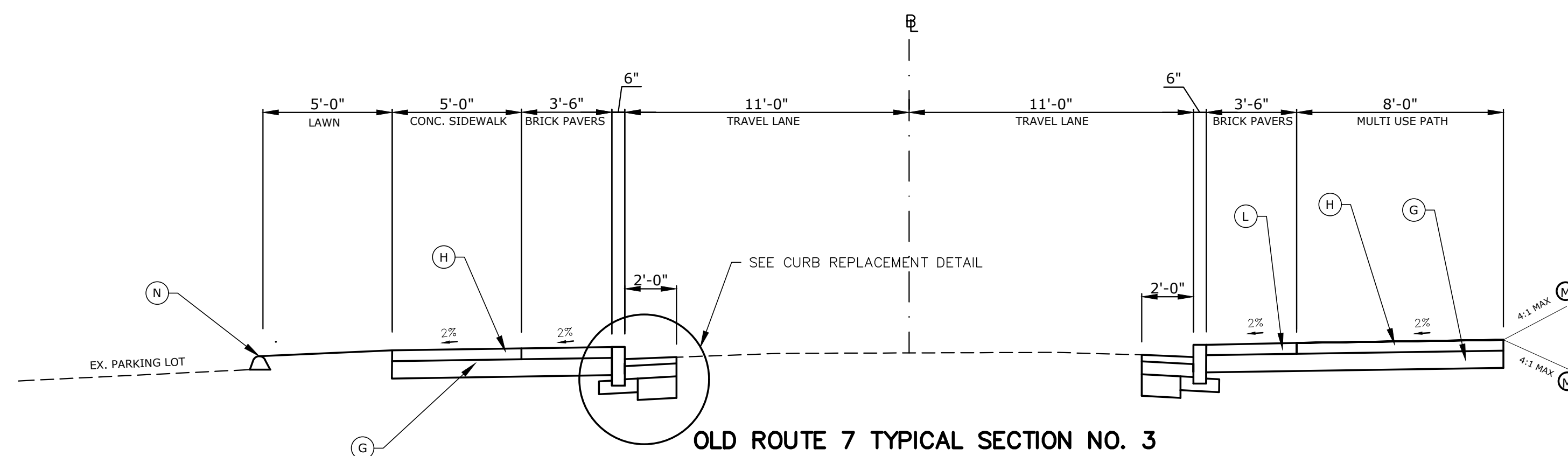
**OLD ROUTE 7 TYPICAL SECTION NO. 1**

STA. 100+00 - STA. 101+50±



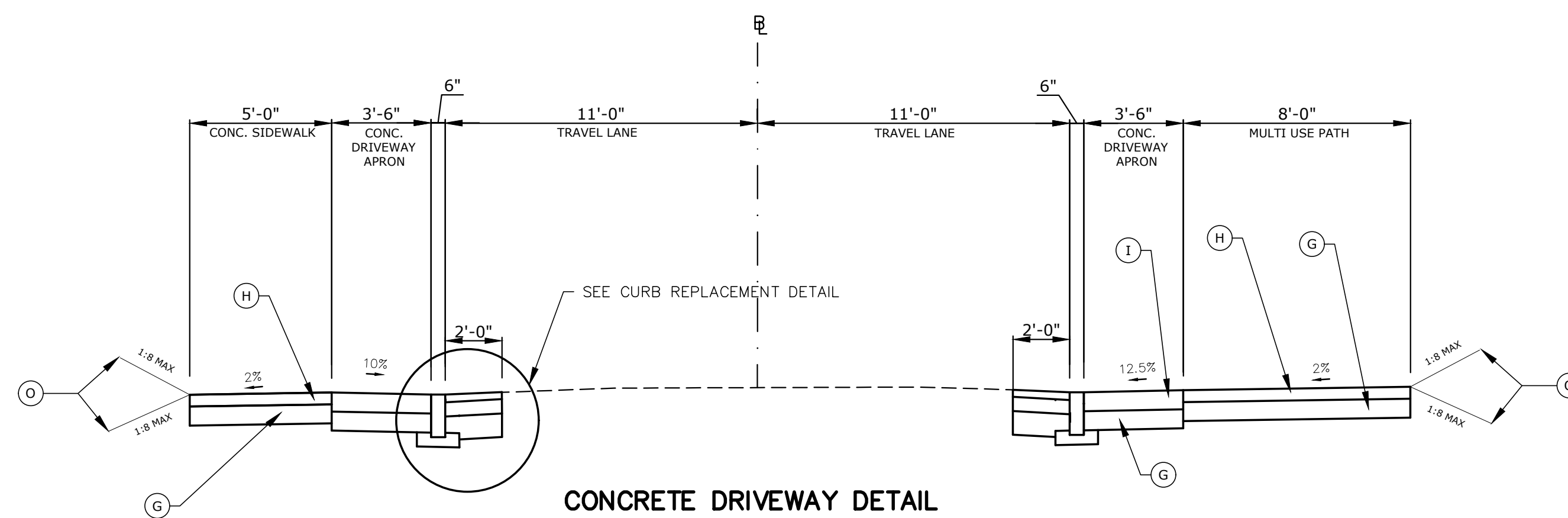
**OLD ROUTE 7 TYPICAL SECTION NO. 2**

STA. 101+50 - STA. 102+00  
STA. 103+50 - STA. 107+50

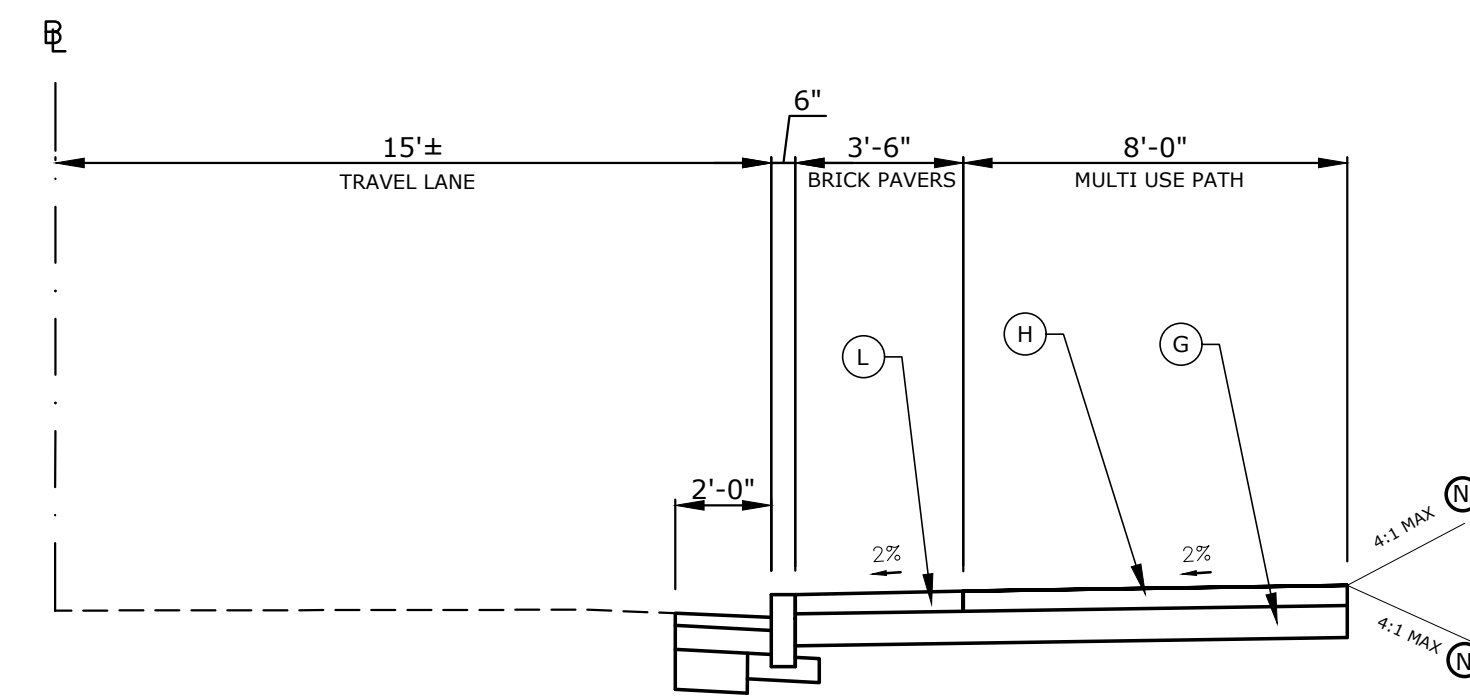


**OLD ROUTE 7 TYPICAL SECTION NO. 3**

STA. 102+50 - STA. 103+50

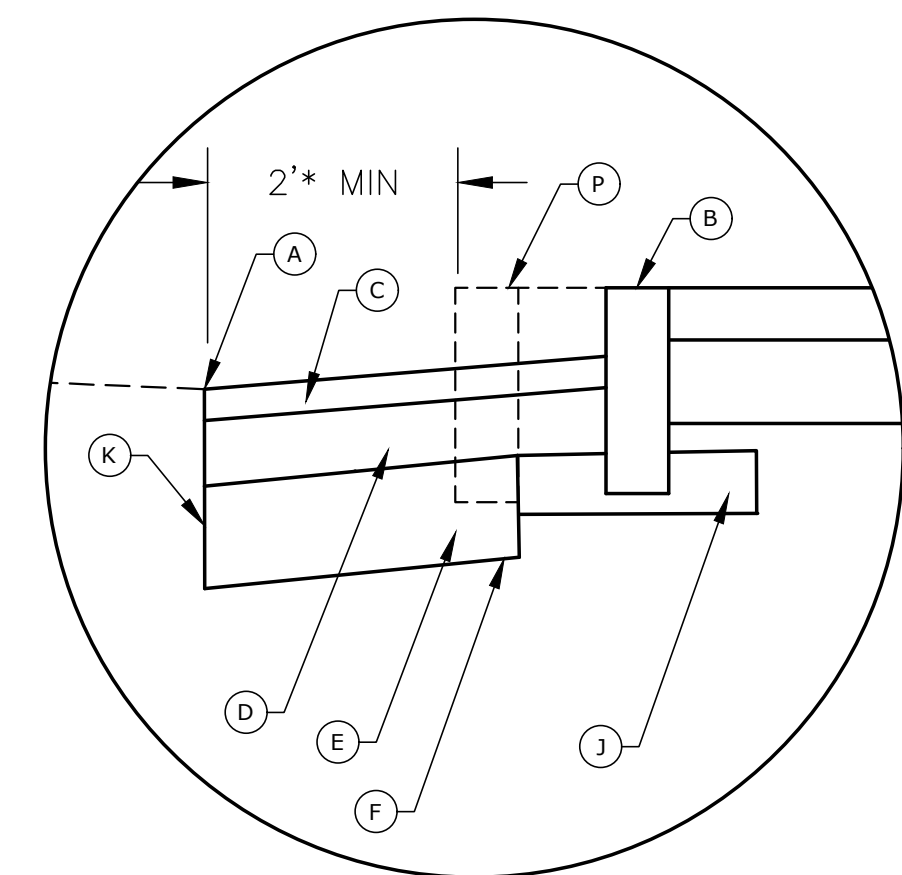


**CONCRETE DRIVEWAY DETAIL**



**LAUREL HILL ROAD TYPICAL SECTION NO. 1**

STA. 200+00 - STA. 201+90  
STA. 202+25 - STA. 204+00.



**CURB REPLACEMENT DETAIL**

\* 2' MIN FROM EXISTING CURB OR EDGE OF ROAD.

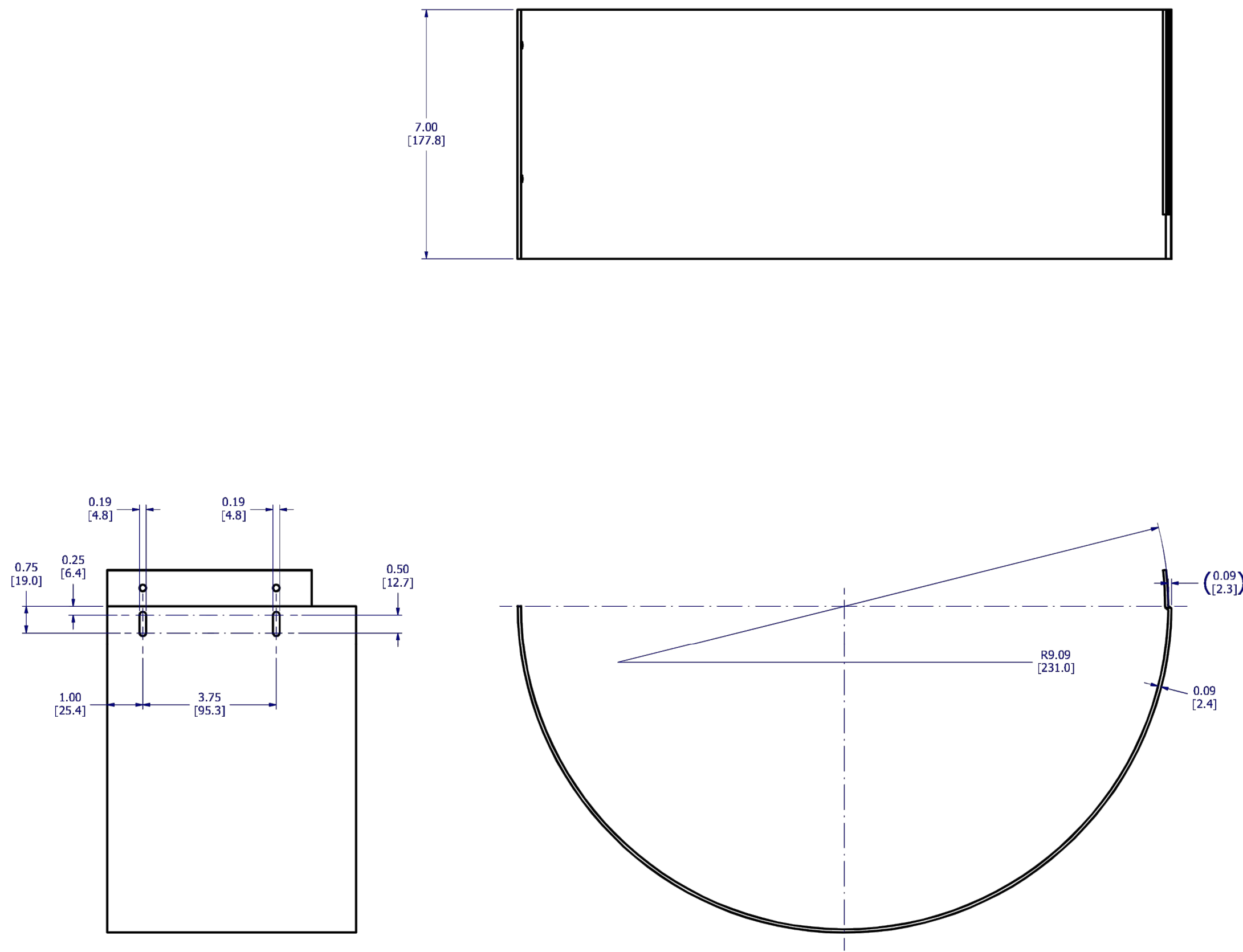
TYPICAL SECTION LEGEND

- |  |                                       |
|--|---------------------------------------|
| (A) SAW CUT PAVEMENT                                       | (I) 8" CLASS "F" CONCRETE**           |
| (B) GRANITE STONE CURB                                     | (J) 6" GRANULAR FILL                  |
| (C) 3" HMA S0.375 TRAFFIC LEVEL 2 (PLACED IN 2 EVEN LIFTS) | (K) TACK COAT                         |
| (D) 6" HMA S0.5 TRAFFIC LEVEL 2 (PLACED IN 2 EVEN LIFTS)   | (L) 2.25"x4"x8" BRICK PAVERS***       |
| (E) 10" SUBBASE  | (M) 4" TOPSOIL AND TRUF ESTABLISHMENT |
| (F) FORMATION OF SUBGRADE                                  | (N) BITUMINOUS CONCRETE LIP CURBING   |
| (G) 8" GRANULAR FILL                                       | (O) BITUMINOUS CONCRETE DRIVEWAY      |
| (H) 5" CLASS "F" CONCRETE                                  | (P) EXISTING CURB                     |

\*\* SEE HIGHWAY STANDARD SHEET NO. HW-921-01  
\*\*\* SEE MDS-2 FOR DETAILS

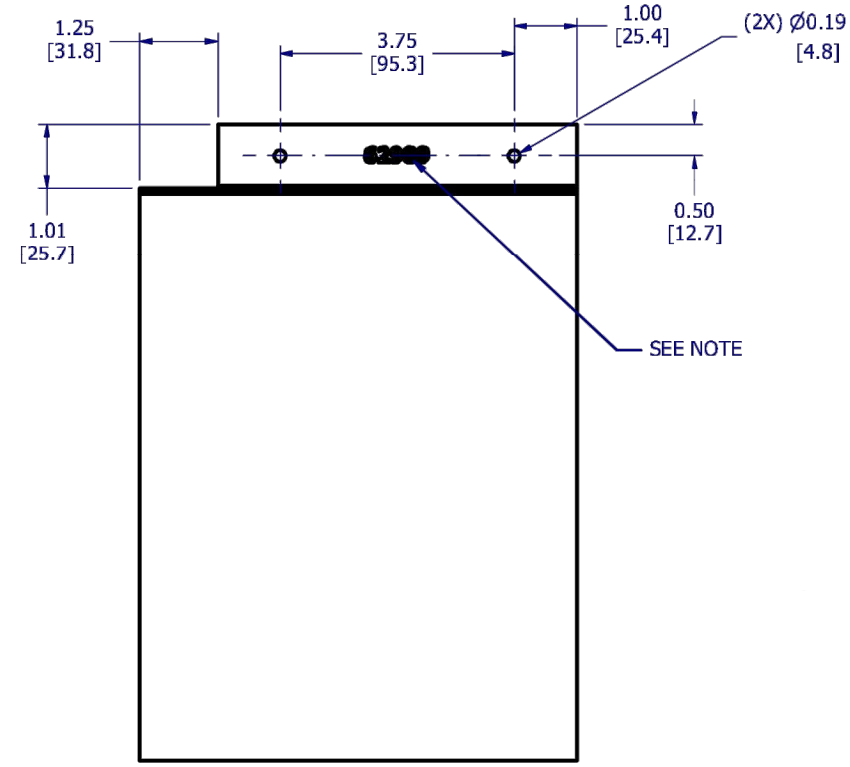
<b>FREEMAN COMPANIES</b>									
LAND DEVELOPMENT   ENGINEERING DESIGN   CONSTRUCTION SERVICES DBE   DAS   MBE   CMASDC CERTIFIED CIVIL   GEOTECHNICAL SURVEY   ENVIRONMENTAL									
FREEMAN COMPANIES, LLC 36 JOHN STREET HARTFORD, CT 06106 WWW.FREEMANCO.COM TEL: (860) 251-9550 TOLL FREE: (800) 664-5141 FAX: (860) 986-7161									
ELEVATE YOUR EXPECTATIONS									
<b>BROOKFIELD STREETScape PHASE III</b>					<b>BROOKFIELD, CONNECTICUT</b>				
<b>OLD ROUTE 7 &amp; LAUREL HILL ROAD</b>									
DESIGNED:	Y.L.	DRAFTED:	C.S.	CHECKED:	Y.L.	APPROVED:	P.A.R.	SCALE:	AS NOTED
FC PROJECT NO.:	2019-0106	DATE:	3/26/2020	CAD/HW_MSH_2019_0106_TYP					
TITLE: TYPICAL SECTION									
DWG NO.: TYP-1									
SHEET NO.:									

FREEMAN COMPANIES, LLC - R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\WV\_MSH\_2019\_0106\_MDS 1-2.dwg Mar 17, 2021-11:34am Plotted By: caurpman



**BREAK AWAY COUPLING SKIRT**

N.T.S.

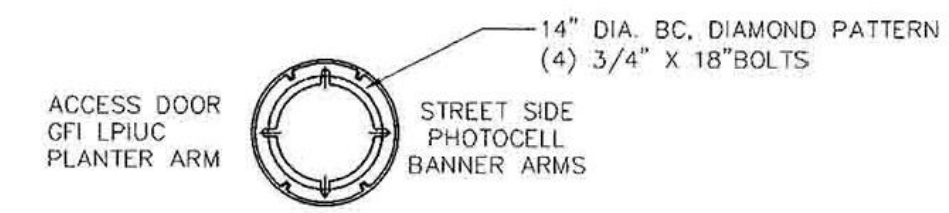


**FINISH NOTES:**

- 1. FINISHED PART TO BE OIL FREE, CLEAN, FREE OF SHARP EDGES AND BURRS.
- 2. PART TO BE ADEQUATELY PACKAGED TO PREVENT DAMAGE DURING SHIPMENT.

**MATERIAL:**

1100, 5052, OR 6061 ALUMINUM.



FDRB OUTPUT SETTINGS 100% OR ADVISE

LED LIGHT SOURCE  
CLEAR SEEDED ACRYLIC LENS

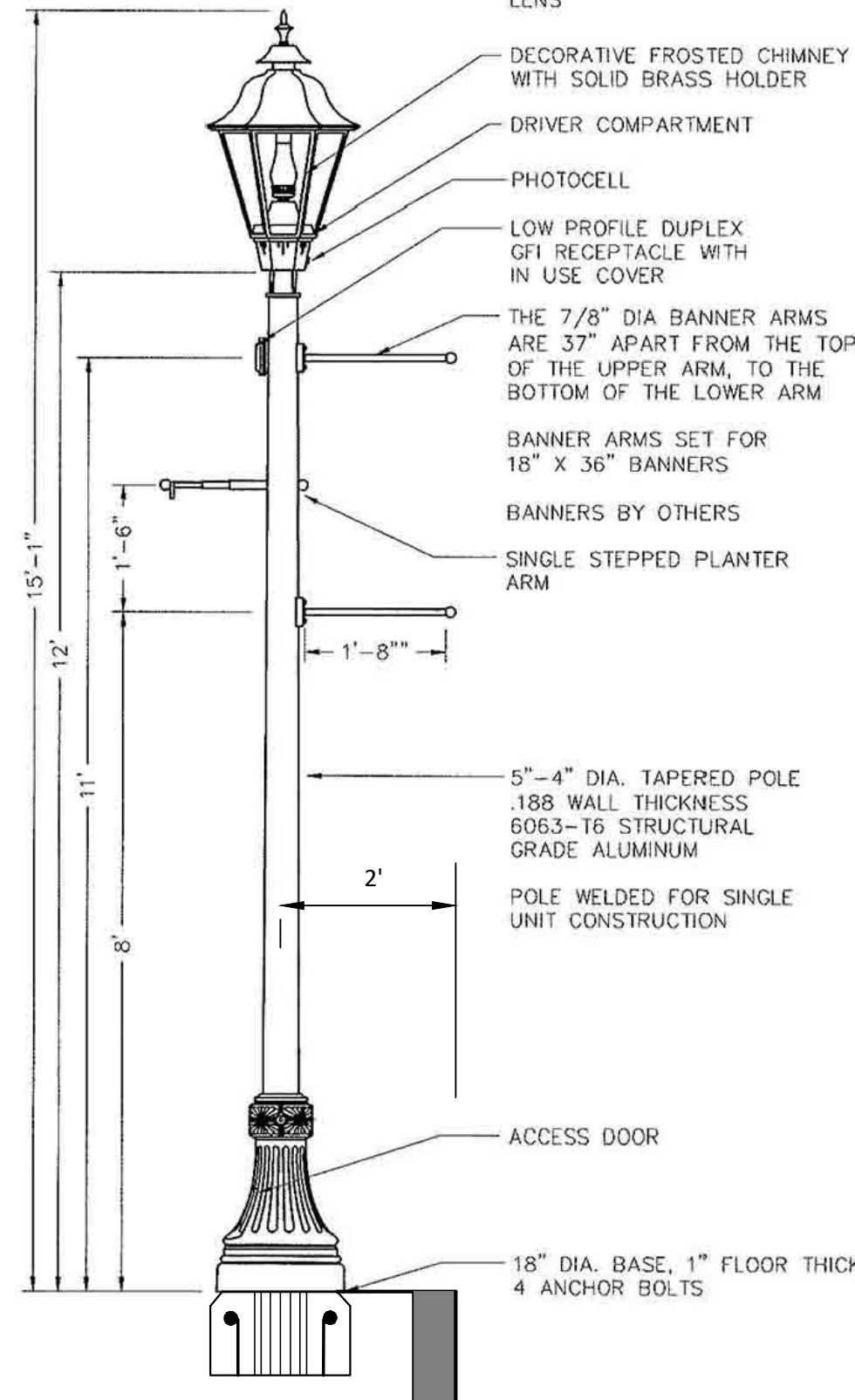
DECORATIVE FROSTED CHIMNEY WITH SOLID BRASS HOLDER  
DRIVER COMPARTMENT  
PHOTOCELL  
LOW PROFILE DUPLEX GF1 RECEPTACLE WITH IN USE COVER

THE 7/8" DIA BANNER ARMS ARE 37" APART FROM THE TOP OF THE UPPER ARM, TO THE BOTTOM OF THE LOWER ARM

BANNER ARMS SET FOR 18" X 36" BANNERS  
BANNERS BY OTHERS  
SINGLE STEPPED PLANTER ARM

5"-4" DIA. TAPERED POLE .188 WALL THICKNESS 6063-T6 STRUCTURAL GRADE ALUMINUM  
POLE WELDED FOR SINGLE UNIT CONSTRUCTION

ACCESS DOOR  
18" DIA. BASE, 1" FLOOR THICKNESS 4 ANCHOR BOLTS

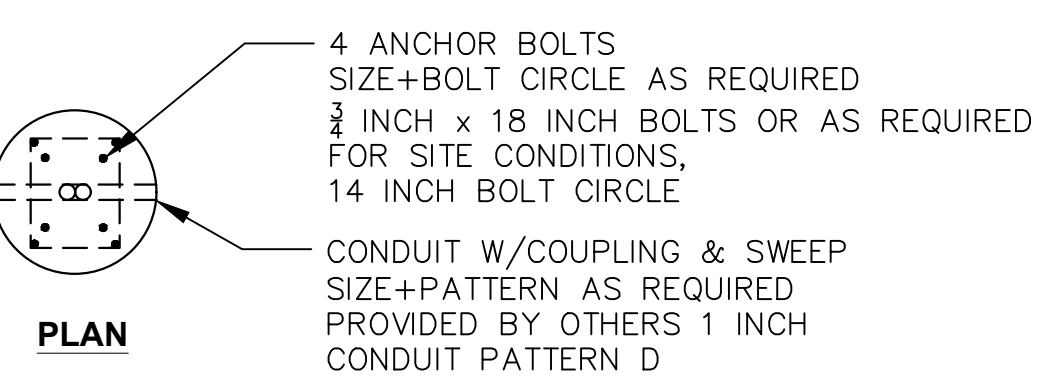


**NOTE:**

- 1. SEE LIGHTING PHOTOMETRIC PLAN FOR LIGHT TYPES AND SPECIFICATIONS
- 2. SEE SPECIFICATIONS FOR ADDITIONAL LIGHT REQUIREMENTS
- 3. SEE LANDSCAPE AND LIGHTING PLAN FOR LIGHT LOCATIONS

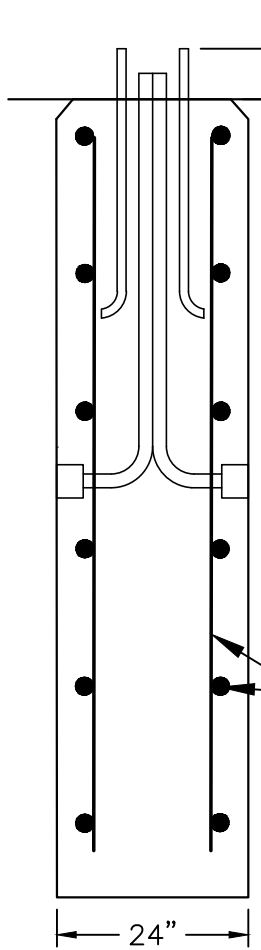
**ORNAMENTAL LIGHT**

N.T.S.

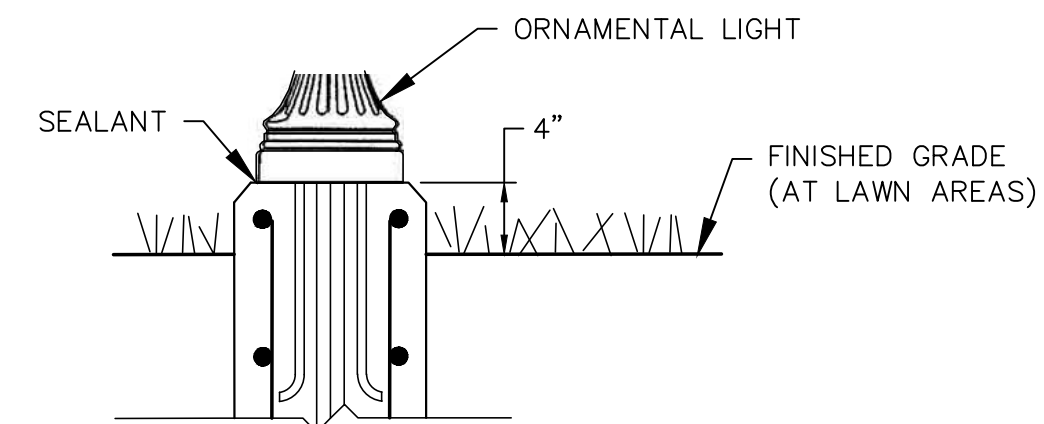


4 ANCHOR BOLTS SIZE+BOLT CIRCLE AS REQUIRED IN 1/4" INCH X 18 INCH BOLTS OR AS REQUIRED FOR SITE CONDITIONS, 14 INCH BOLT CIRCLE  
CONDUIT W/COUPLING & SWEEP SIZE+PATTERN AS REQUIRED PROVIDED BY OTHERS 1 INCH CONDUIT PATTERN D

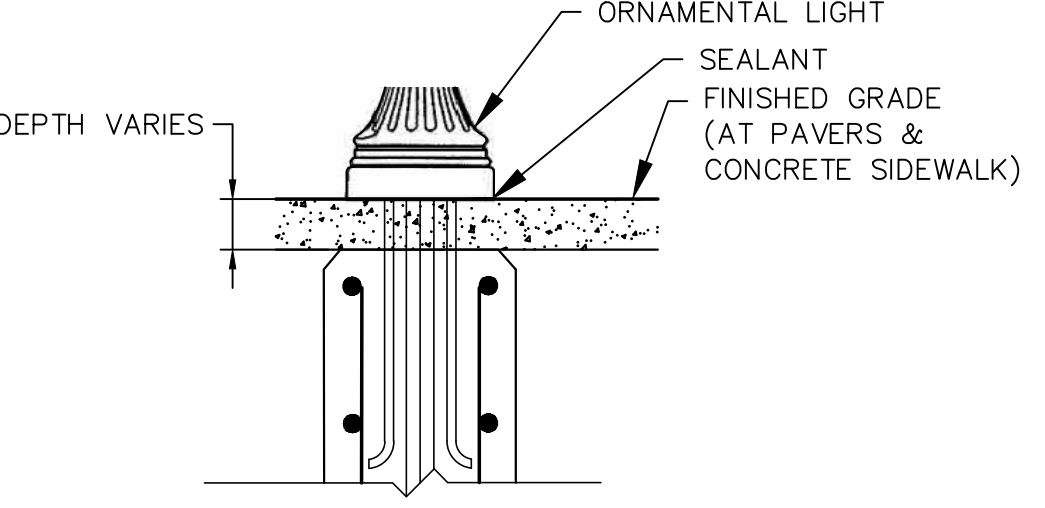
BOLT PROJECTION AS REQUIRED FOR SITE CONDITIONS AT LAWN, CONCRETE SIDEWALK, & BRICK PAVERS



REINFORCING BY LIGHT POLE MANUFACTURER/ CONTRACTOR



**SECTION AT LAWN**

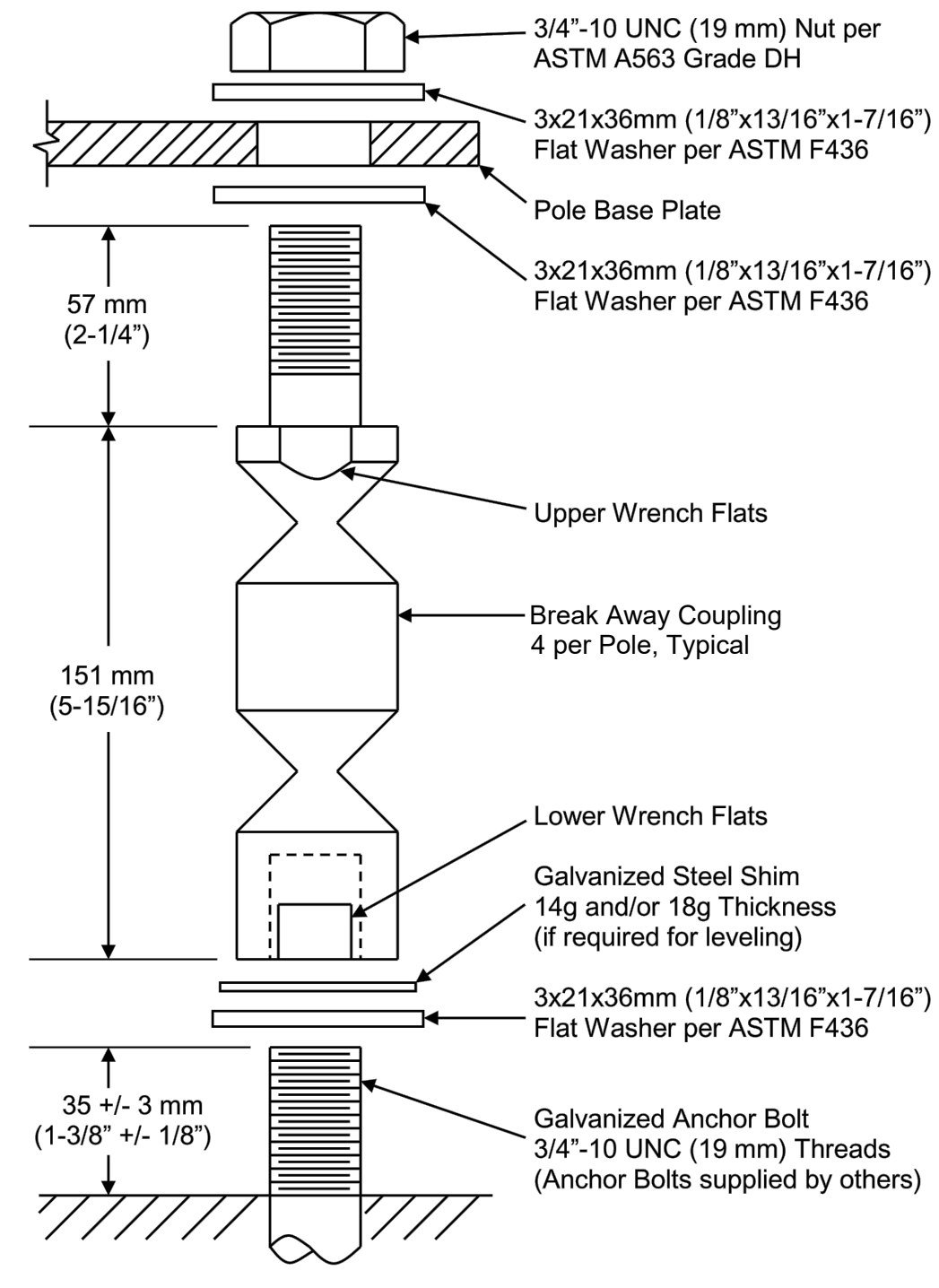


**SECTION AT PAVERS OR CONCRETE SIDEWALK**

**NOTE:**  
FOUNDATION DESIGN TO BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH CTDOT STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 818, DATED 2020.

**LIGHT POLE BASE**

N.T.S.



**BREAK AWAY COUPLING**

N.T.S.

NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
LAND DEVELOPMENT | INSURANCE DESIGN | CONSTRUCTION SERVICES  
DBE | DAS | MBE | CMAS/CERTIFIED  
CIVIL | GEOTECHNICAL  
SURVEY | ENVIRONMENTAL

FREEMAN COMPANIES, LLC  
36 JOHN STREET  
HARTFORD, CT 06106  
WWW.FREEMANCO.COM  
TEL: (860) 251-9550  
TOLL FREE: (800) 664-5141  
FAX: (860) 986-7161

ELEVATE YOUR EXPECTATIONS

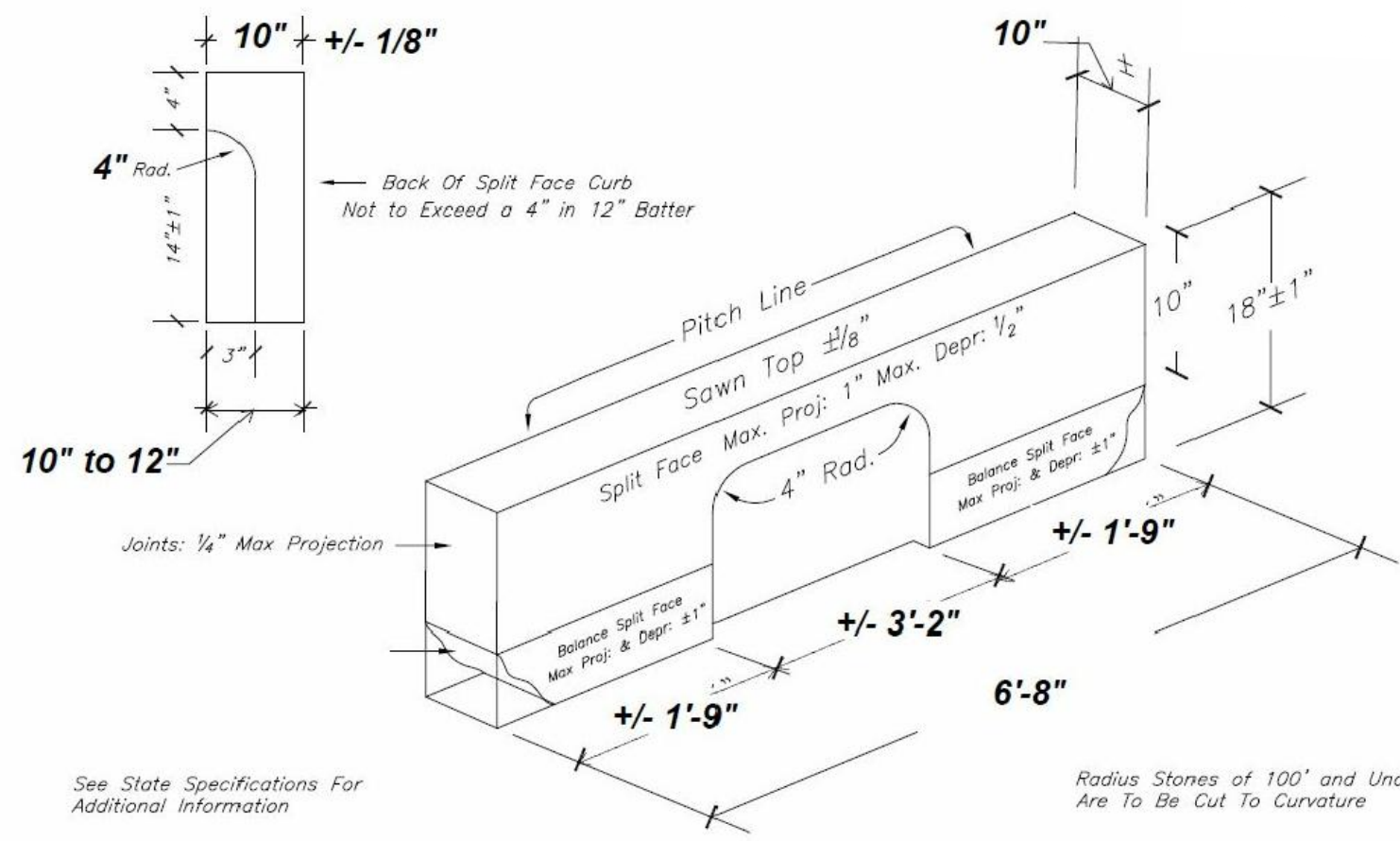
**BROOKFIELD STREETScape PHASE III  
OLD ROUTE 7 & LAUREL HILL ROAD  
BROOKFIELD, CONNECTICUT**

DESIGNED: Y.L.  
DRAFTED: C.S.  
CHECKED: Y.L.  
APPROVED: P.A.R.  
SCALE: AS NOTED  
FC PROJECT NO.: 2019-0106  
DATE: 3/26/2020  
CAD/HW\_MSH\_2019\_0106\_MDS

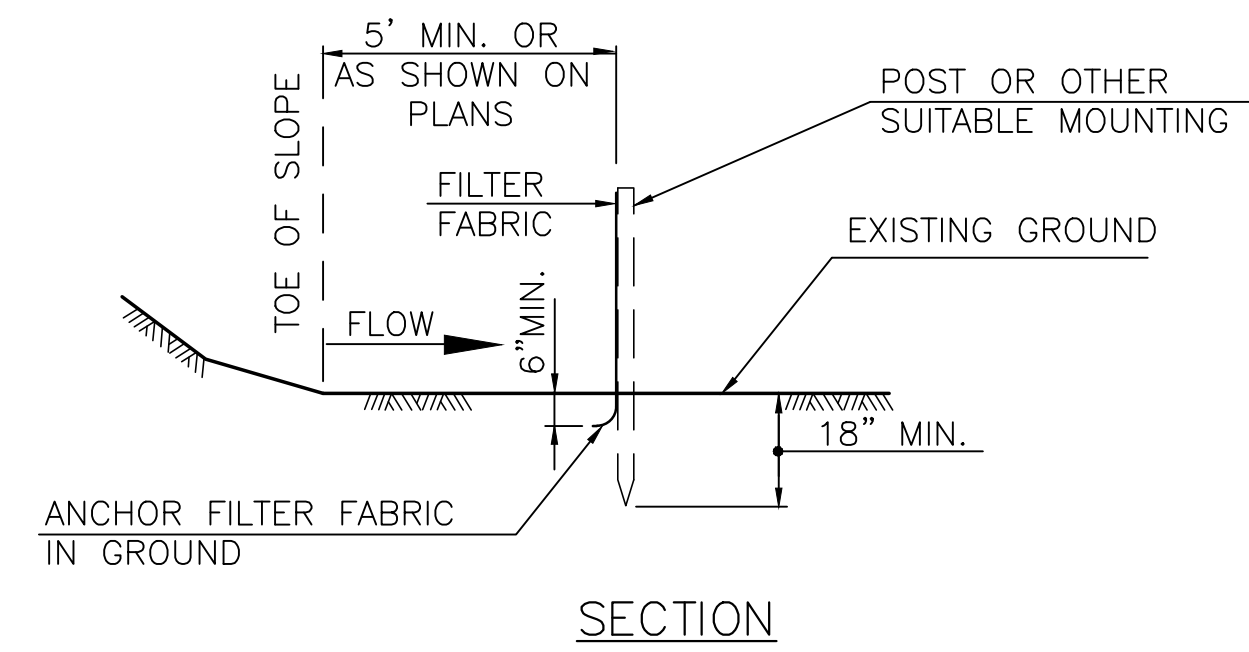
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DWG NO.: MDS-1

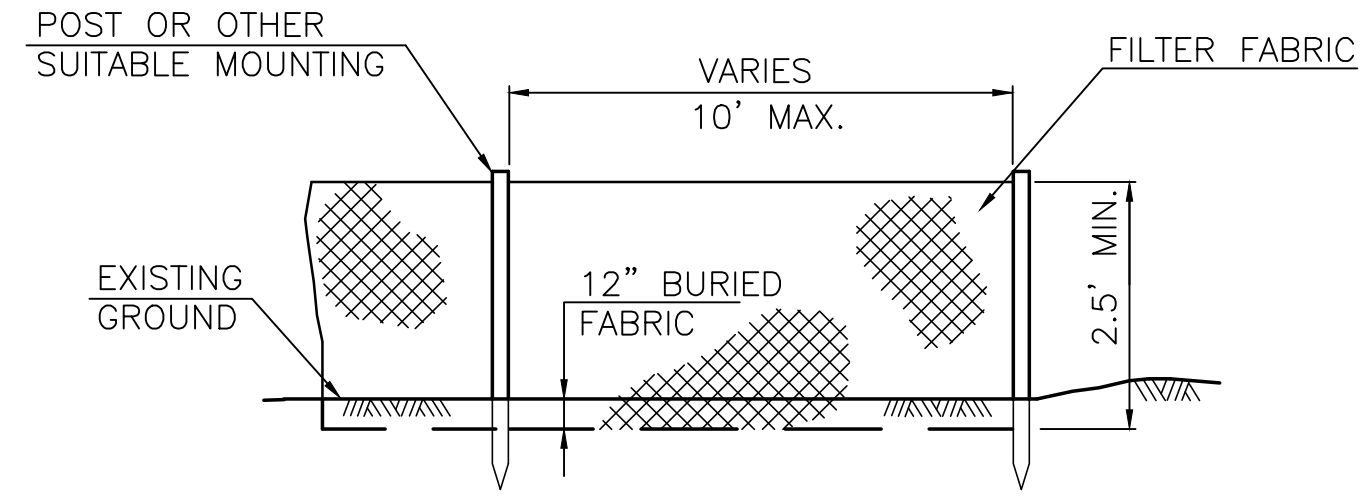
SHEET NO.:



**GRANITE CURB CATCH BASIN INLET**  
NTS

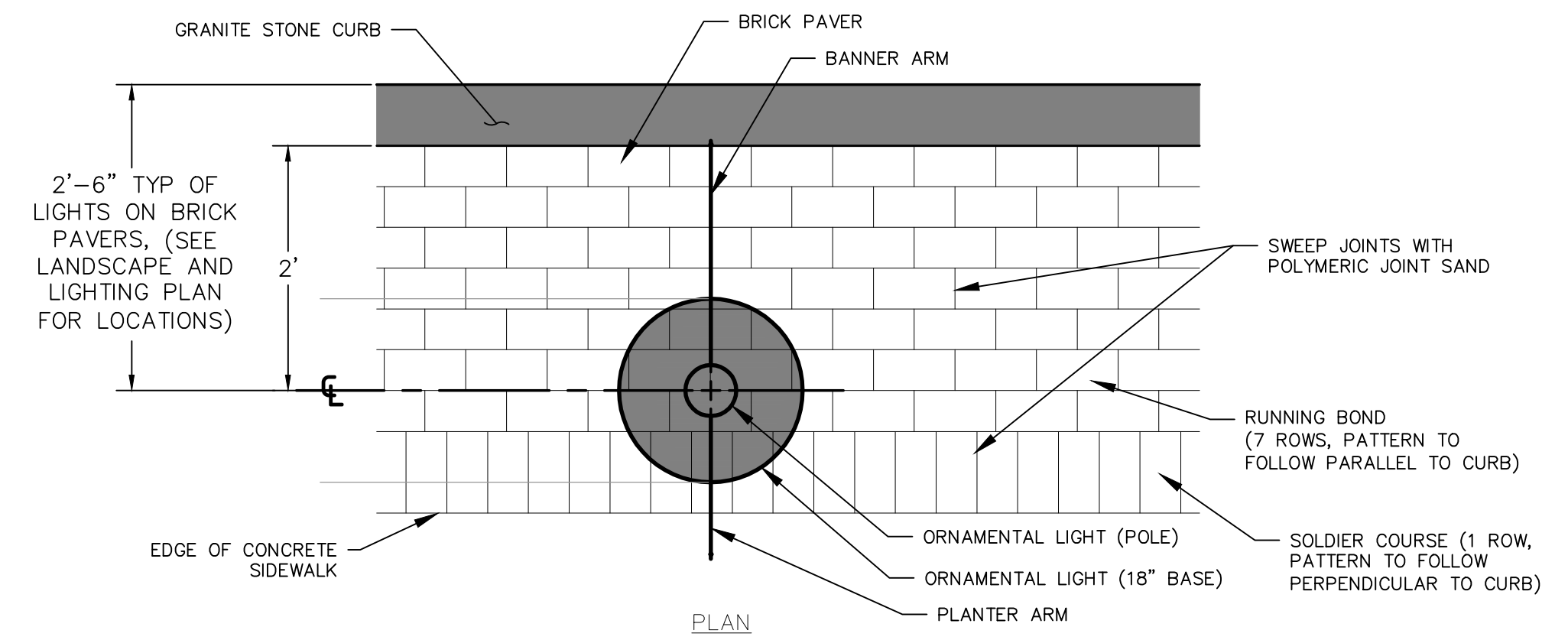


SECTION

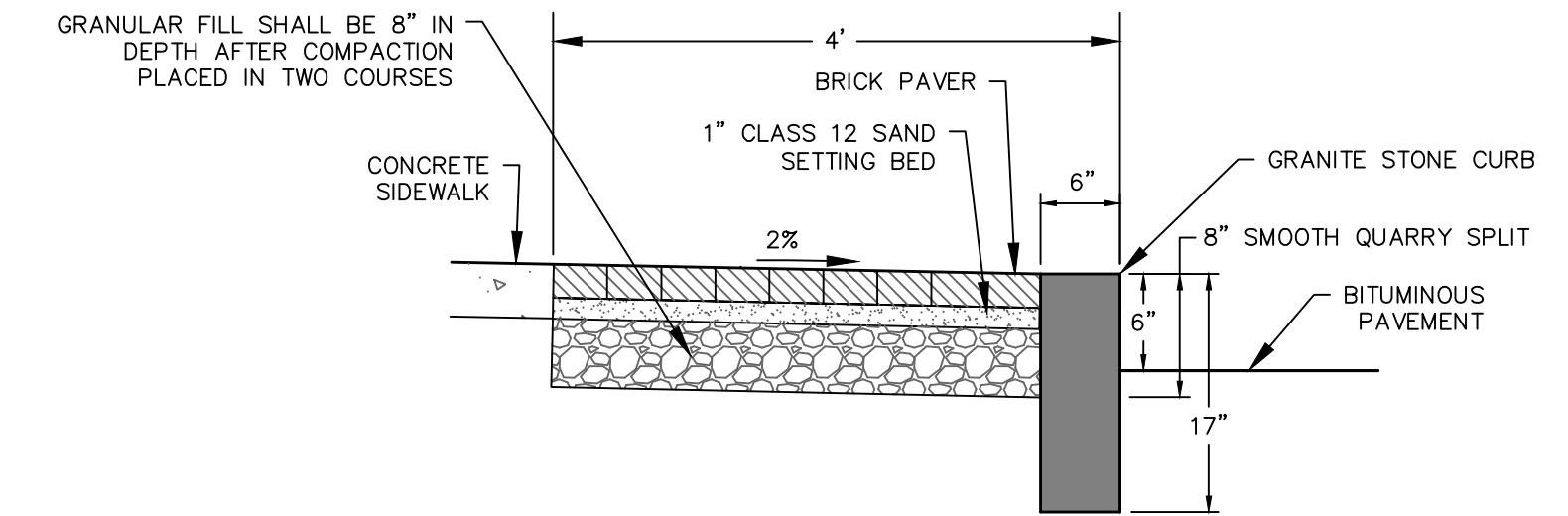


ELEVATION

**SILT FENCE**  
NTS

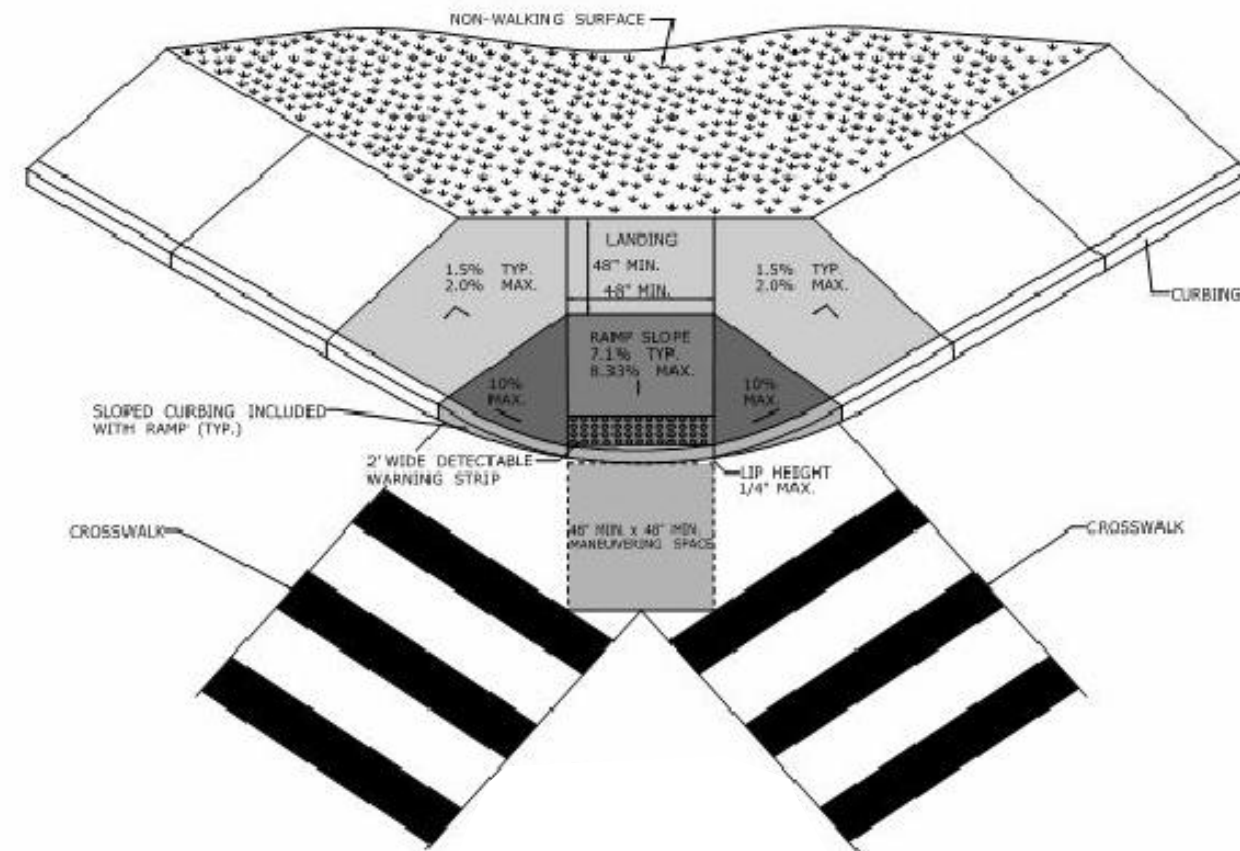


PLAN

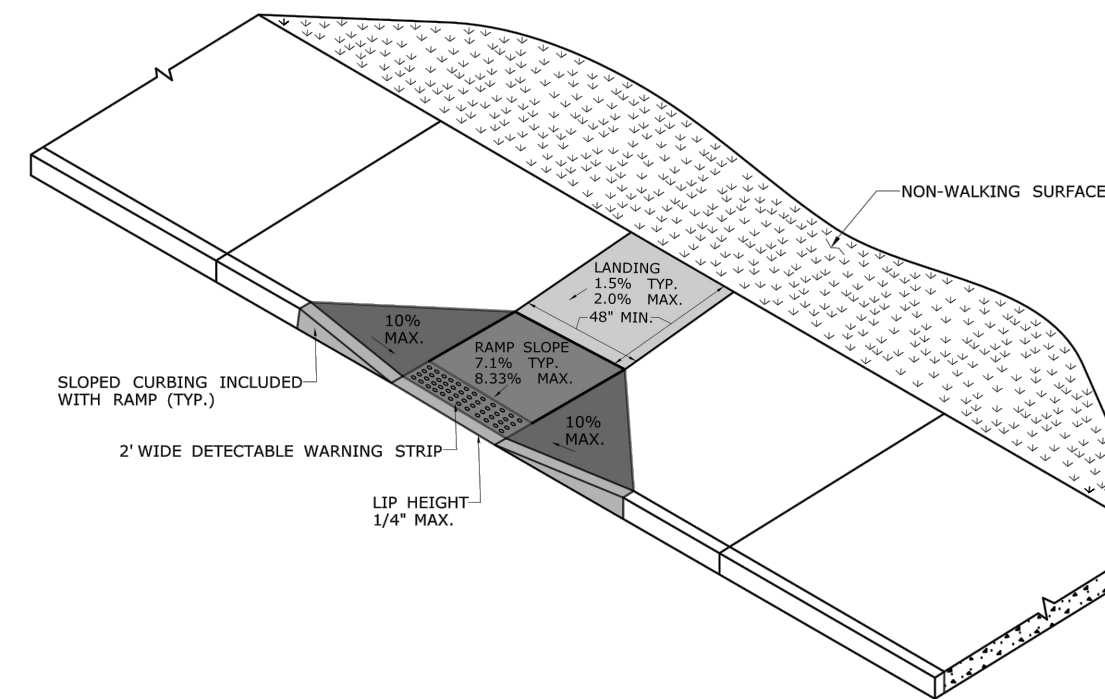


SECTION

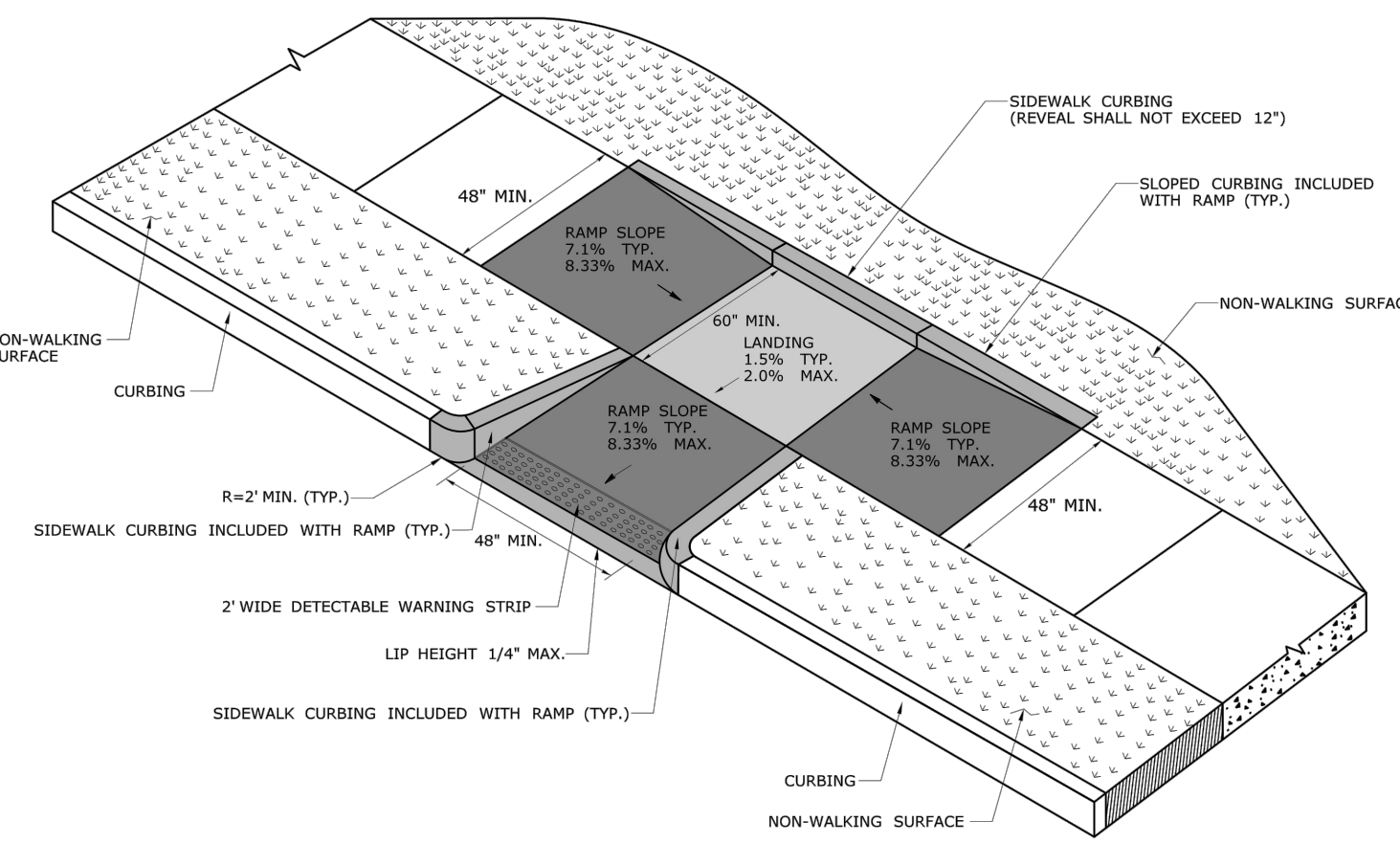
**BRICK PAVERS**  
NTS



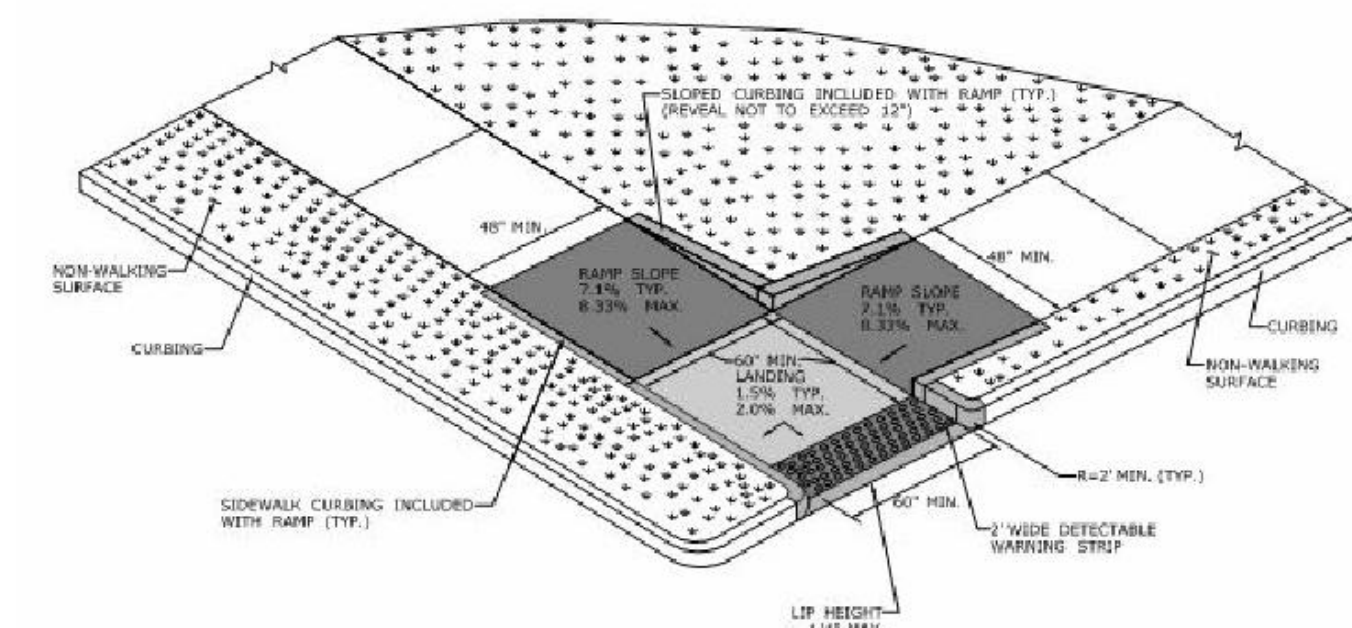
**PERPENDICULAR RAMP W/ LANDING AT TOP (TYPE 7)**  
NTS



**PERPENDICULAR RAMP WITH 48" BYPASS (TYPE 8)**  
NTS



**PERPENDICULAR RAMP WITH SIDEWALK CURB AND NON-WALKING SURFACE (TYPE 12)**  
NTS



**RESTRICTED PED CROSSING W/ LANDING AT BOTTOM & NON WALKING SURFACE (TYPE 21)**  
NTS

NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
DBE | DAS | MBE | CMASCC CERTIFIED  
CIVIL | GEOTECHNICAL  
SURVEY | ENVIRONMENTAL  
FREEMAN COMPANIES, LLC  
36 JOHN STREET  
HARTFORD, CT 06106  
WWW.FREEMANCO.COM  
TEL: (860) 251-9550  
TOLL FREE: (800) 664-5141  
FAX: (860) 986-7161

ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETSCAPE PHASE III  
OLD ROUTE 7 & LAUREL HILL ROAD  
BROOKFIELD, CONNECTICUT**

DESIGNED: Y.L.  
DRAFTED: C.S.  
CHECKED: Y.L.  
APPROVED: P.A.R.  
SCALE: AS NOTED  
FC PROJECT NO.: 2019-0106  
DATE: 3/26/2020  
CAD: HW\_MSH\_2019\_0106\_MDS

TITLE: MISCELLANEOUS DETAILS

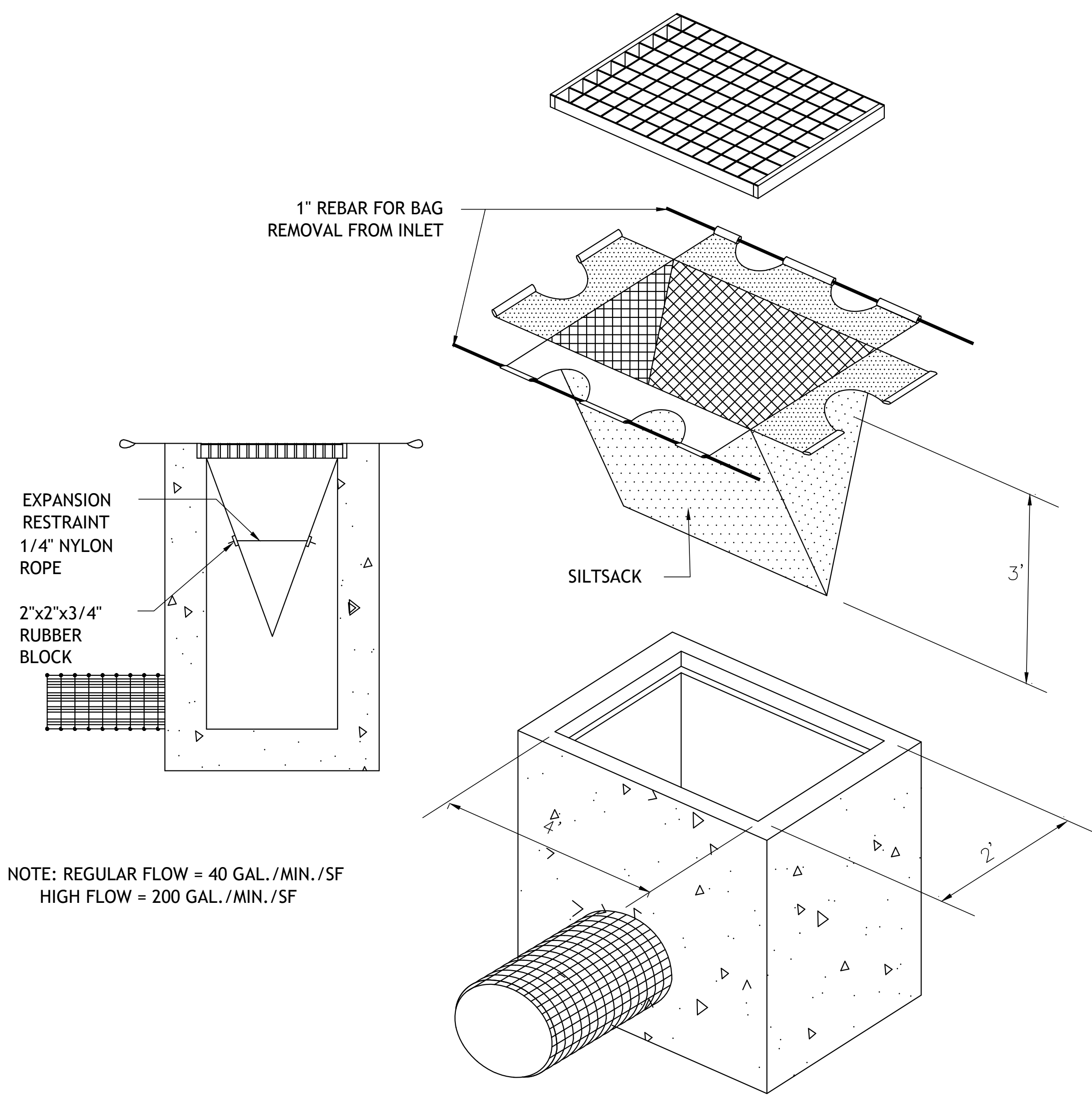
DWG NO.: MDS-2

SHEET NO.:

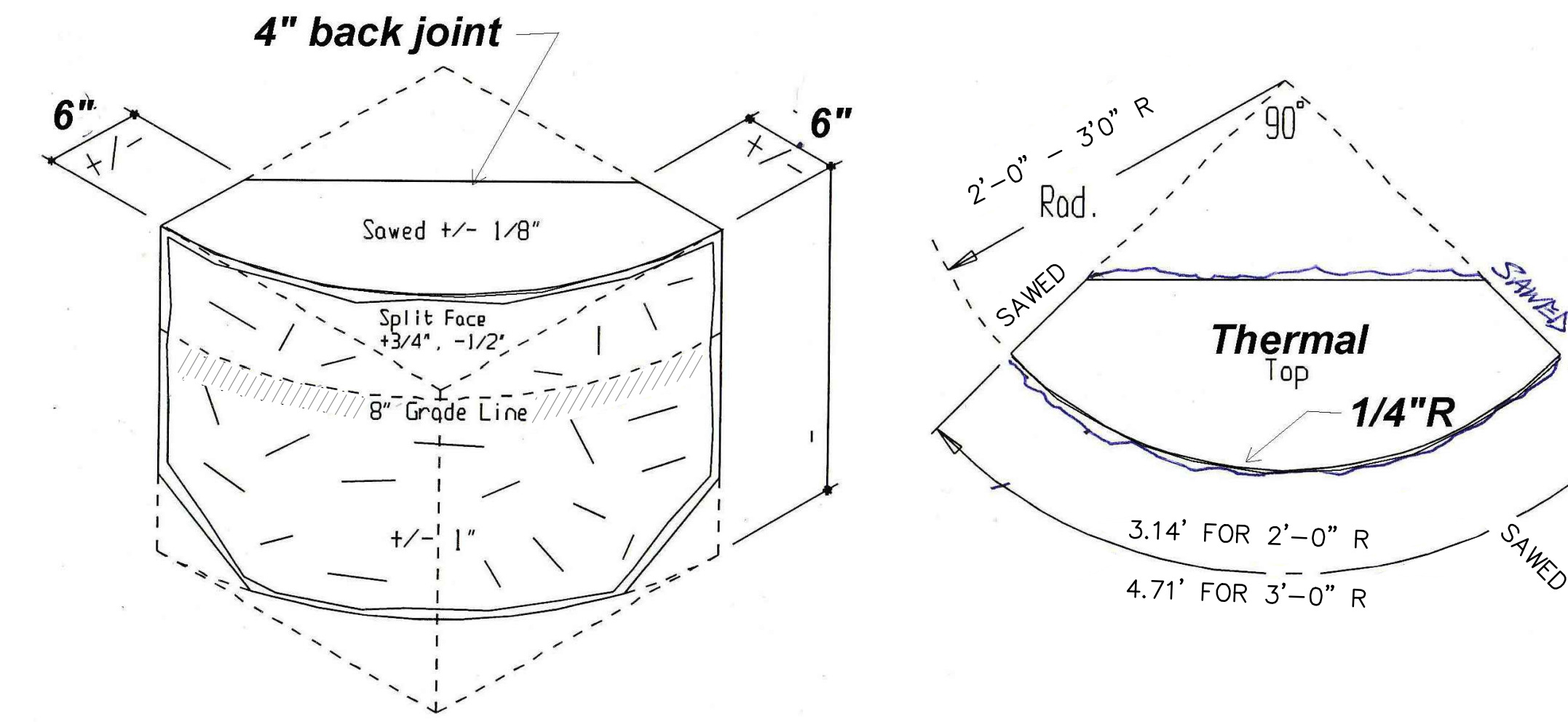
FREEMAN COMPANIES, LLC . R. 2019.0106 Brookfield Streetscape Phase 3.DWG\HW\_MSH\_2019\_0106\_MDS\_1-2.dwg Mar 17, 2021 11:45am Plotted By: cauprenant

THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF FREEMAN COMPANIES, LLC

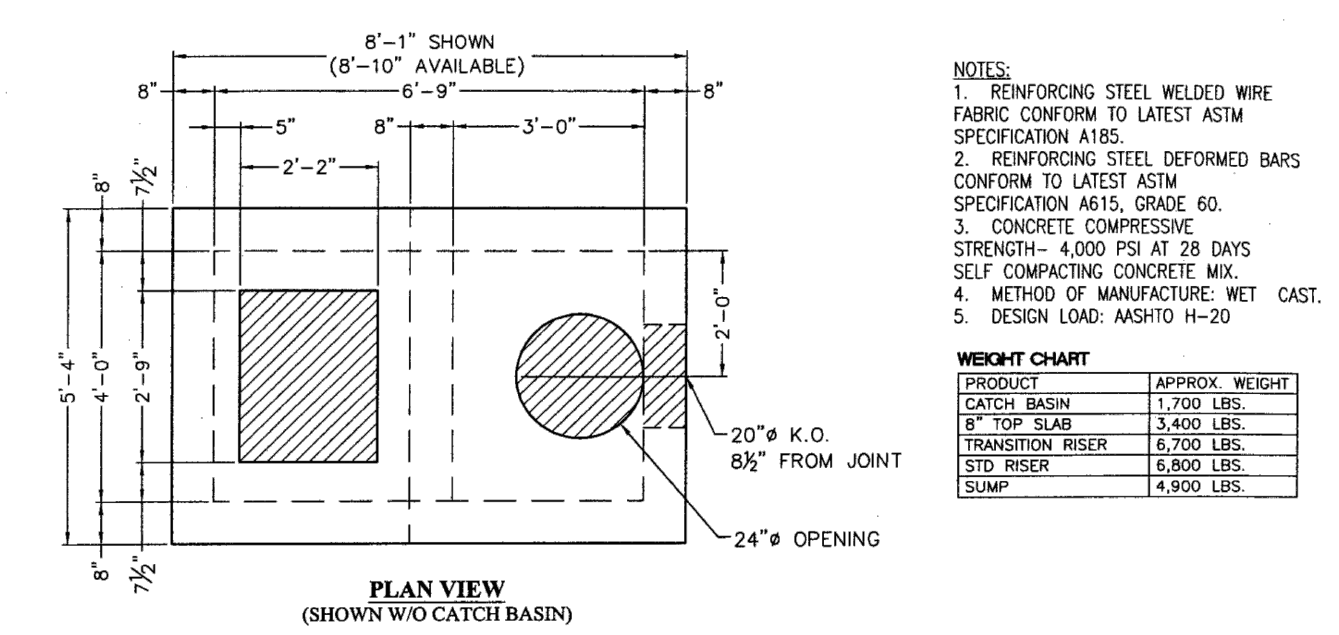
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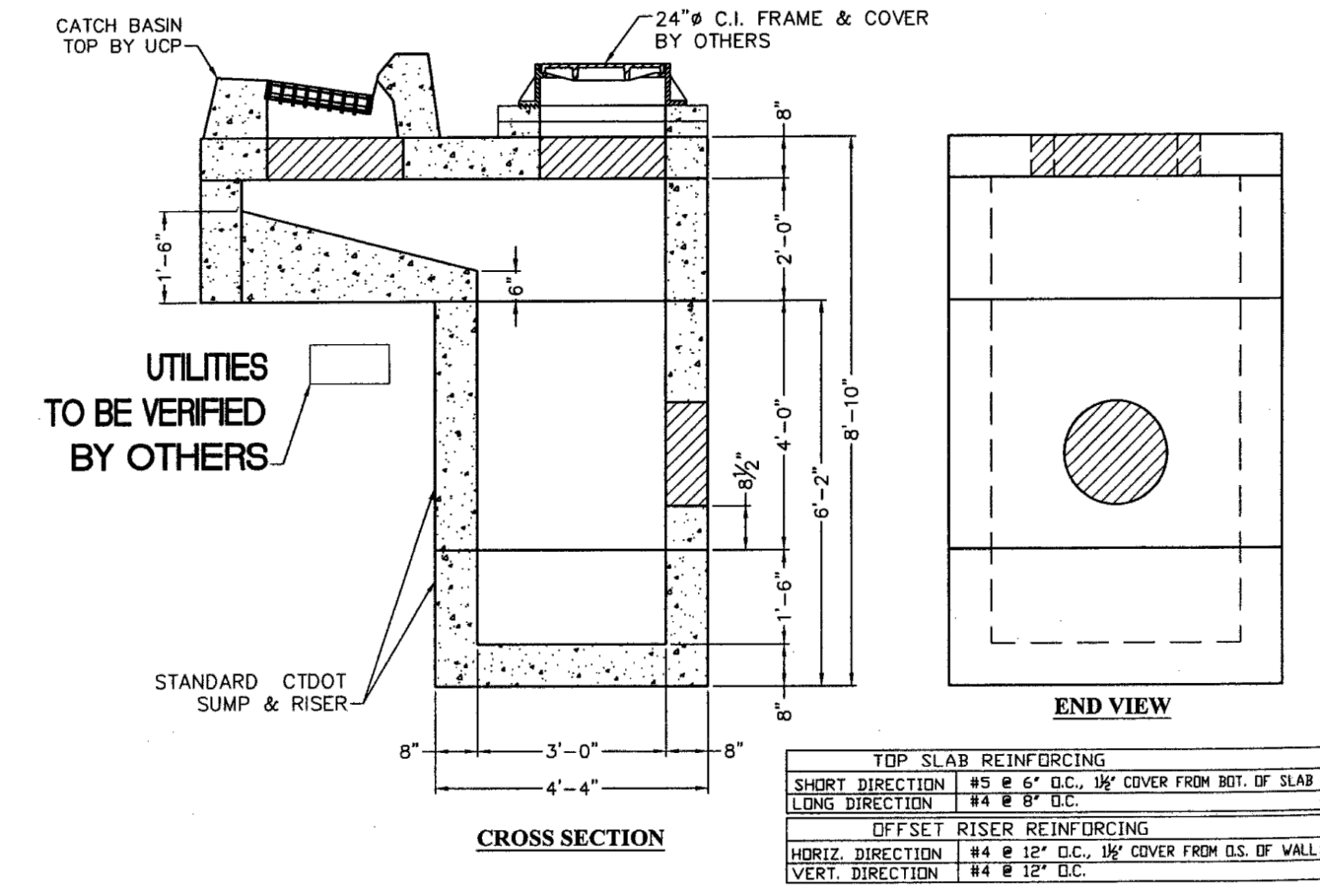
**SILT SACK**  
N.T.S.



**RADIAL GRANITE CURB DRIVEWAY RETURN - 3' RADIUS**  
N.T.S.



- NOTES:
1. REINFORCING STEEL WELDED WIRE FABRIC CONFORM TO LATEST ASTM SPECIFICATION A185.
  2. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615, GRADE 60.
  3. CONCRETE COMPRESSIVE STRENGTH - 4000 PSI AT 28 DAYS SELF COMPACTING CONCRETE MIX.
  4. METHOD OF MANUFACTURE: WET CAST.
  5. DESIGN LOAD: AASHTO H-20
- WEIGHT CHART
- | PRODUCT          | APPROX. WEIGHT |
|------------------|----------------|
| CATCH BASIN      | 1,700 LBS.     |
| 18" TOP SLAB     | 3,400 LBS.     |
| TRANSITION RISER | 6,700 LBS.     |
| STD RISER        | 6,800 LBS.     |
| SLUMP            | 4,900 LBS.     |



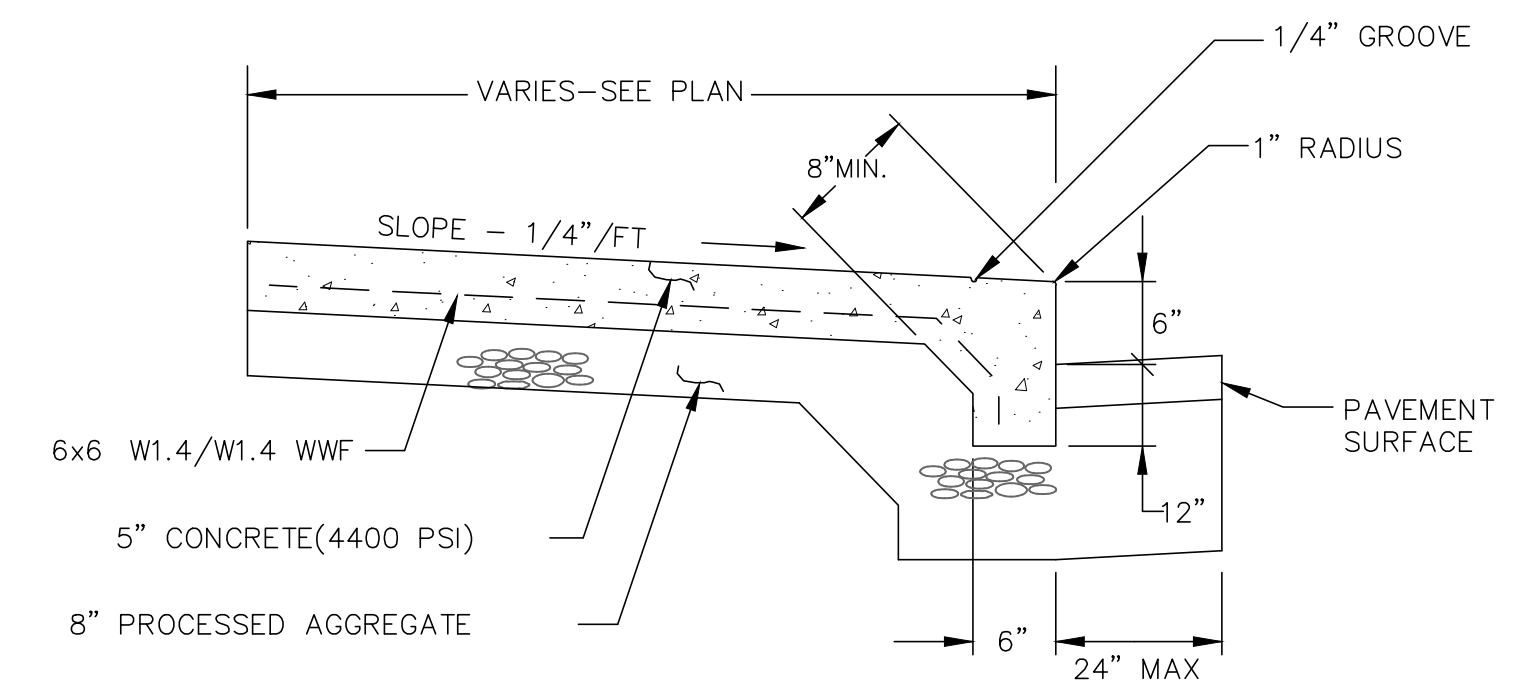
TOP SLAB REINFORCING

SHORT DIRECTION	#5 @ 6" O.C. 1/2" COVER FROM BOT. OF SLAB
LONG DIRECTION	#4 @ 8" O.C.

OFF SET RISER REINFORCING

HORIZ. DIRECTION	#4 @ 12" O.C. 1/2" COVER FROM OS. OF WALL
VERT. DIRECTION	#4 @ 12" O.C.

**OFFSET CATCH BASIN**  
N.T.S.



**MONOLITHIC CONCRETE SIDEWALK**  
N.T.S.

NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
CORPORATION  
DBE | DAS | MBE | CMASCC CERTIFIED  
CIVIL | GEOTECHNICAL  
SURVEY | ENVIRONMENTAL

FREEMAN COMPANIES, LLC  
36 JOHN STREET  
HARTFORD, CT 06106  
WWW.FREEMANCO.COM  
TEL: (860) 251-9550  
TOLL FREE: (800) 664-5141  
FAX: (860) 886-7161

ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETSCAPE PHASE III**  
**OLD ROUTE 7 & LAUREL HILL ROAD**  
BROOKFIELD, CONNECTICUT

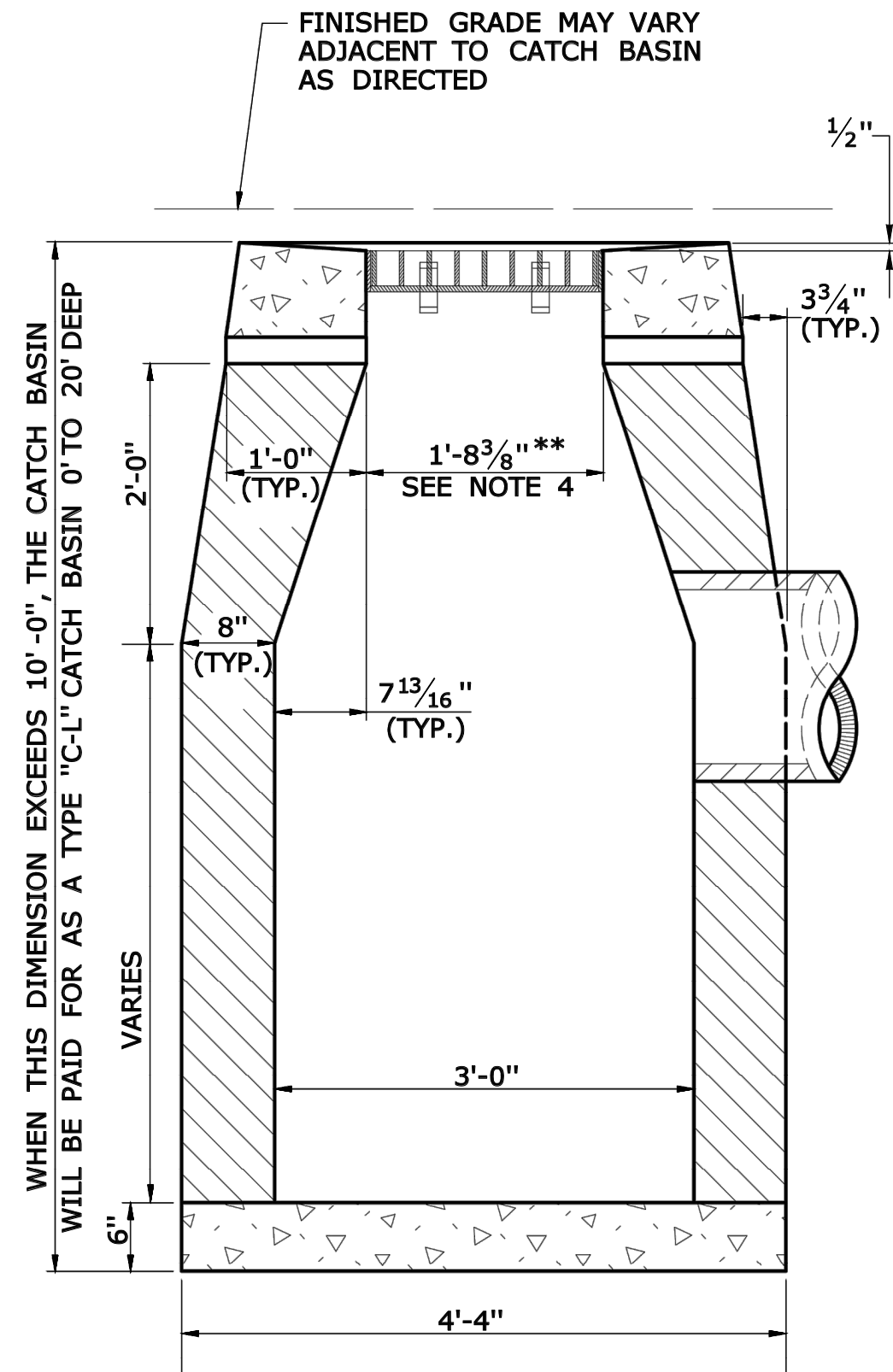
DESIGNED:	Y.L.
DRAFTED:	C.S.
CHECKED:	Y.L.
APPROVED:	P.A.R.
SCALE:	AS NOTED
FC PROJECT NO.:	2019-0106
DATE:	3/26/2020
CAD:HW_MSH_2019_0106_MDS	1-2

TITLE:  
MISCELLANEOUS  
DETAILS

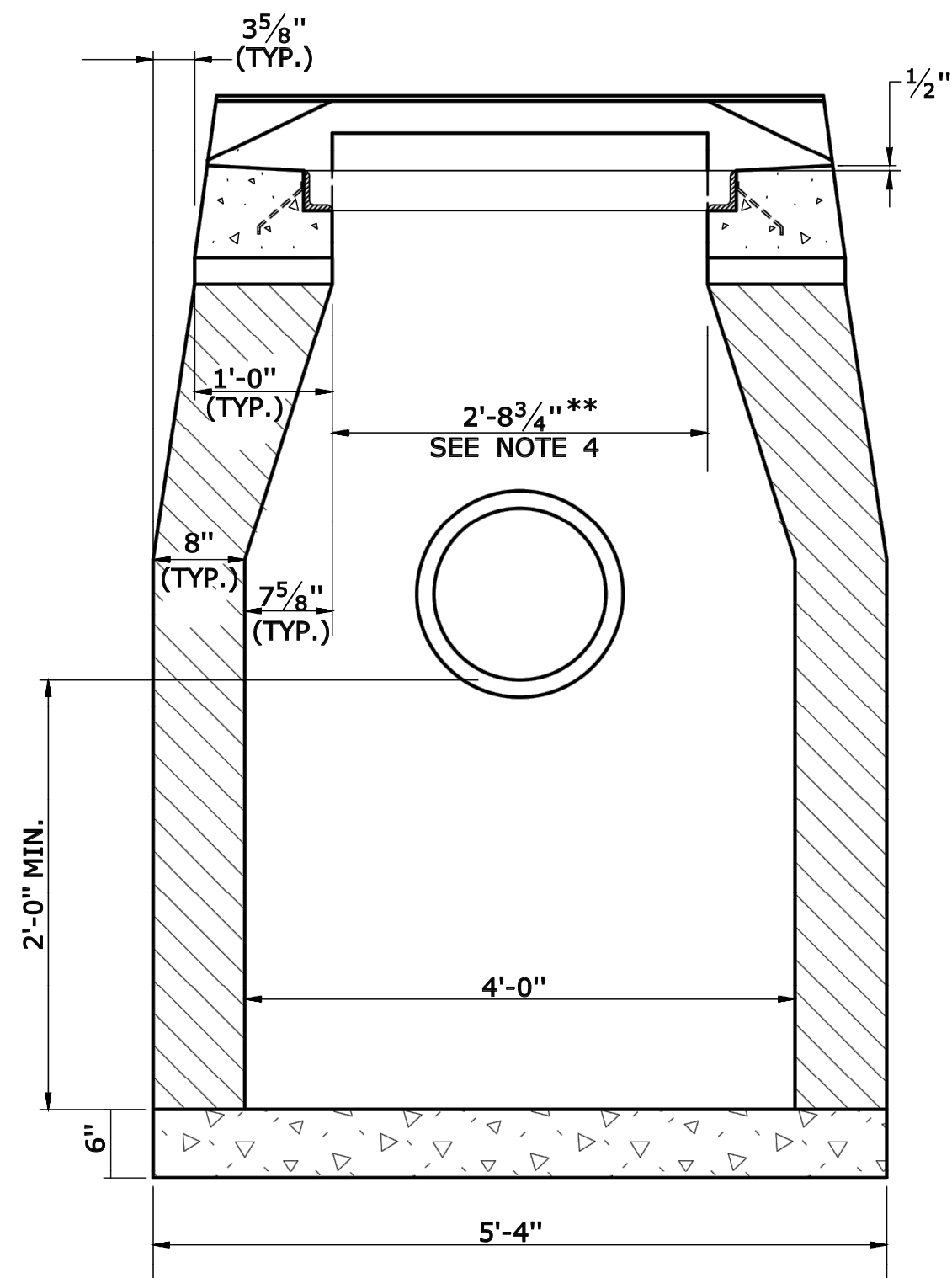
DWG NO.:  
MDS-3

SHEET NO.:

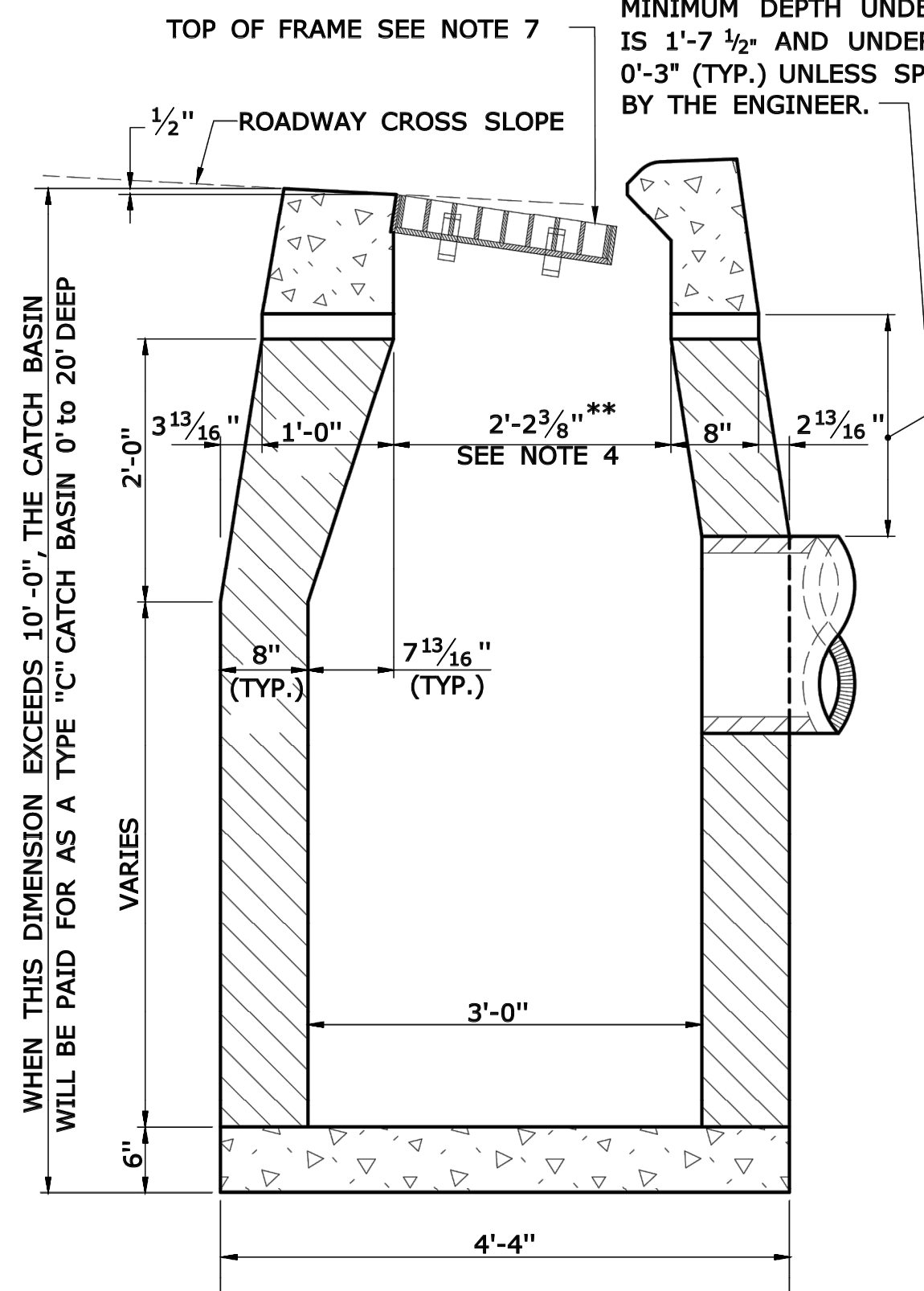
FREEMAN COMPANIES, LLC - R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MST\_2019\_0106\_MDS 3-11.dwg Jan 26, 2021-4:23pm Plotted By: caurprment



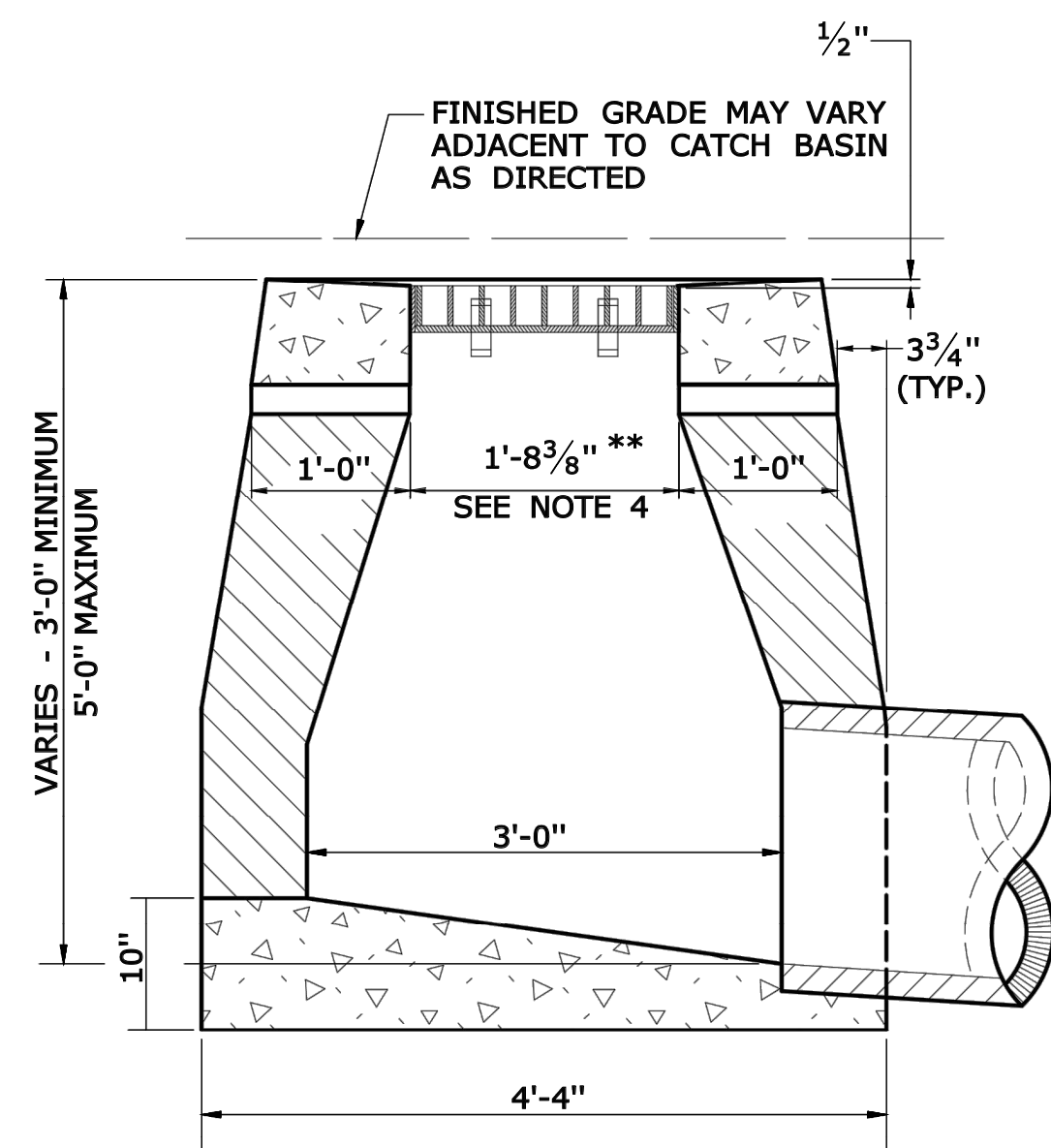
**SECTION B**  
**TYPE "C-L" CATCH BASIN**



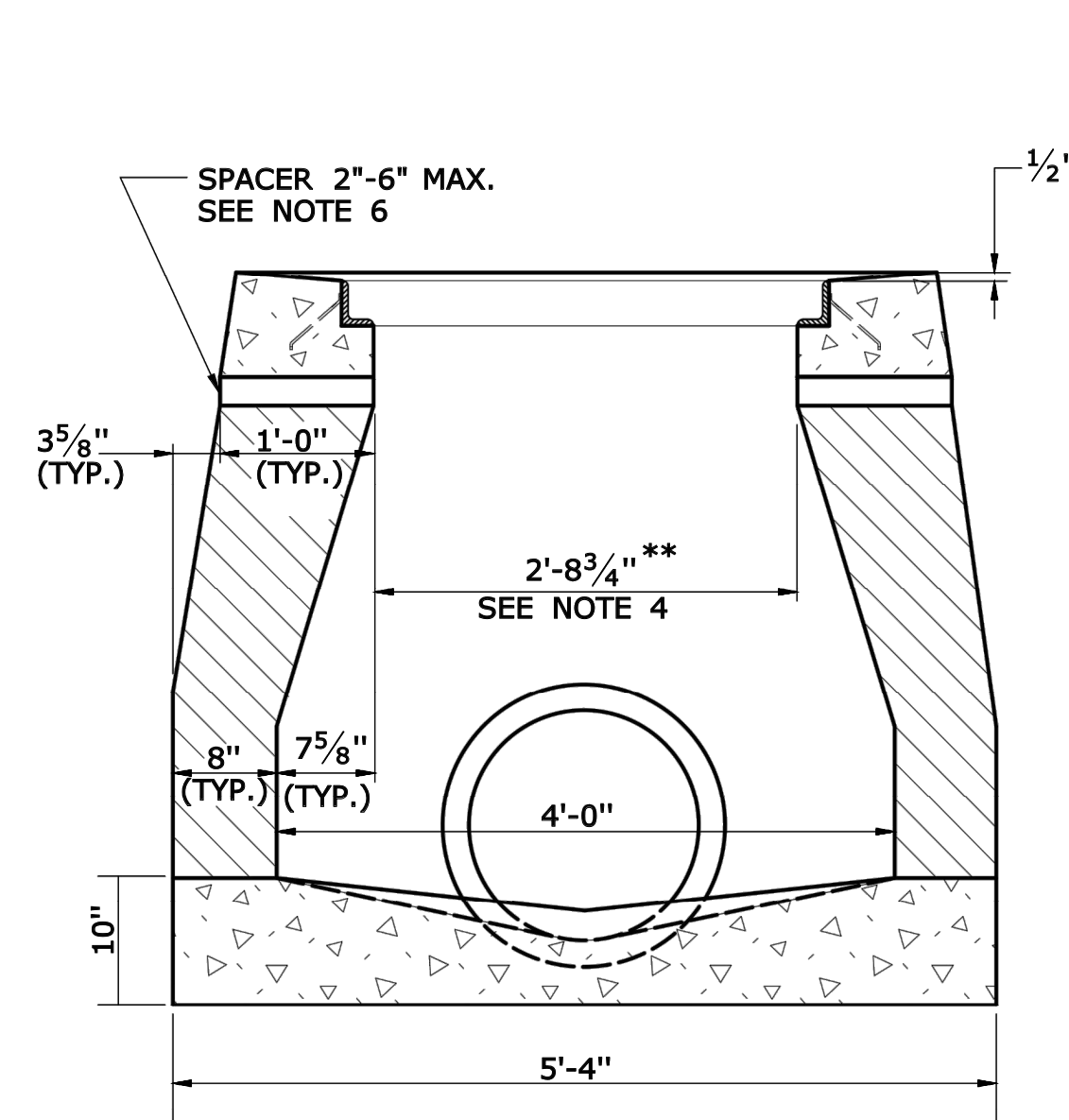
**SECTION A**  
**TYPE "C" & "C-L" CATCH BASIN  
(TYPE "C" TOP SHOWN)**



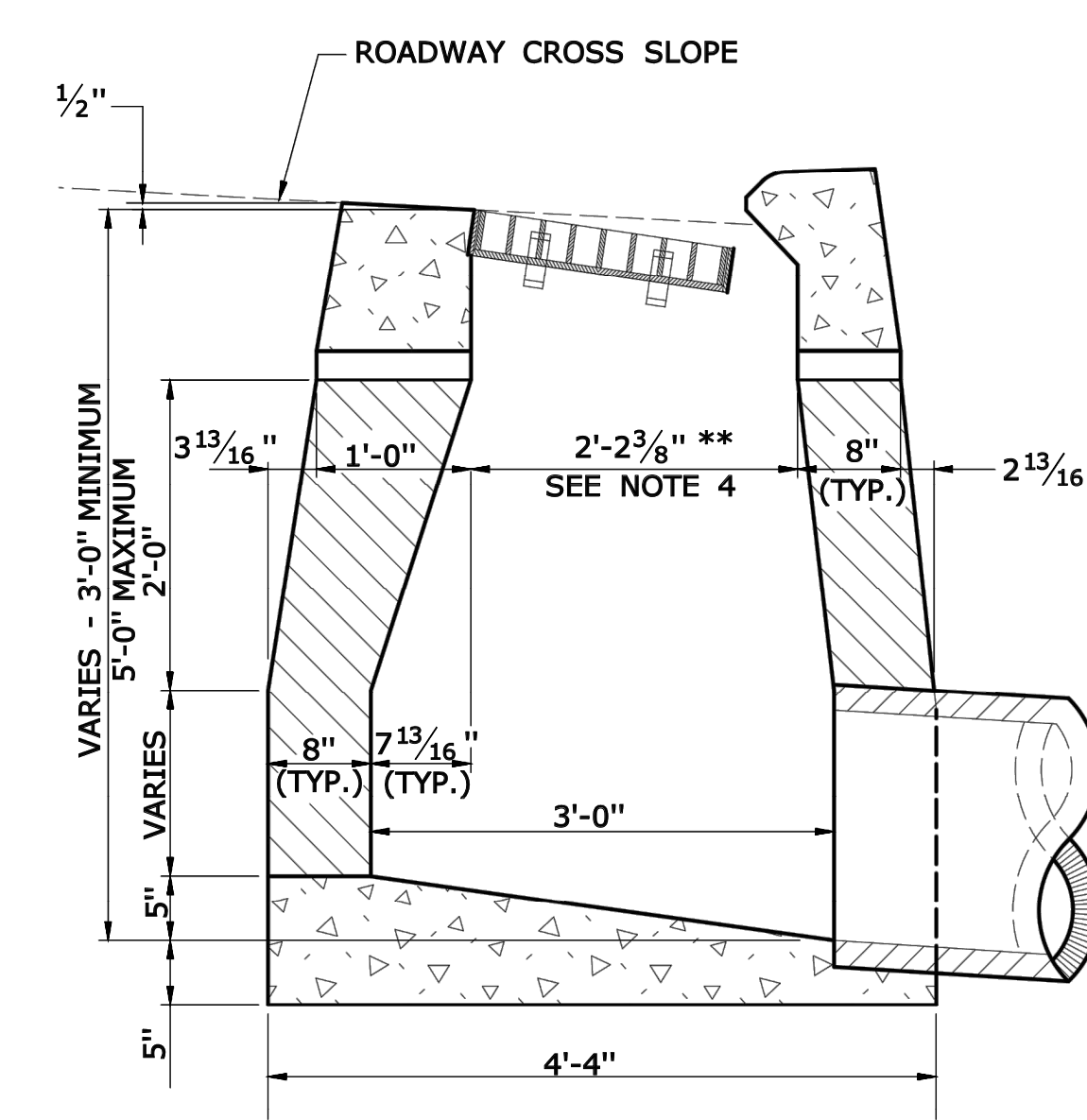
**SECTION B**  
**TYPE "C" CATCH BASIN**



**SECTION B**  
**TYPE "C-L" DROP INLET**

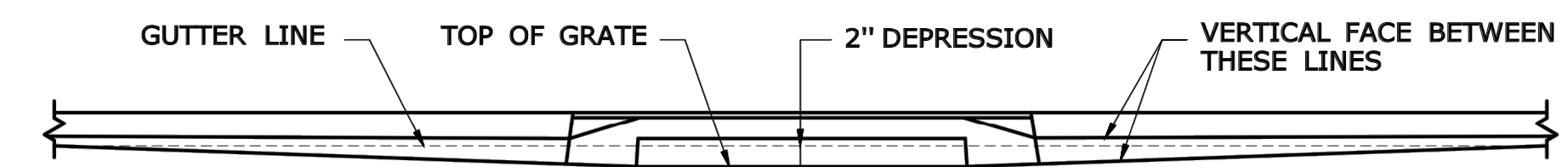
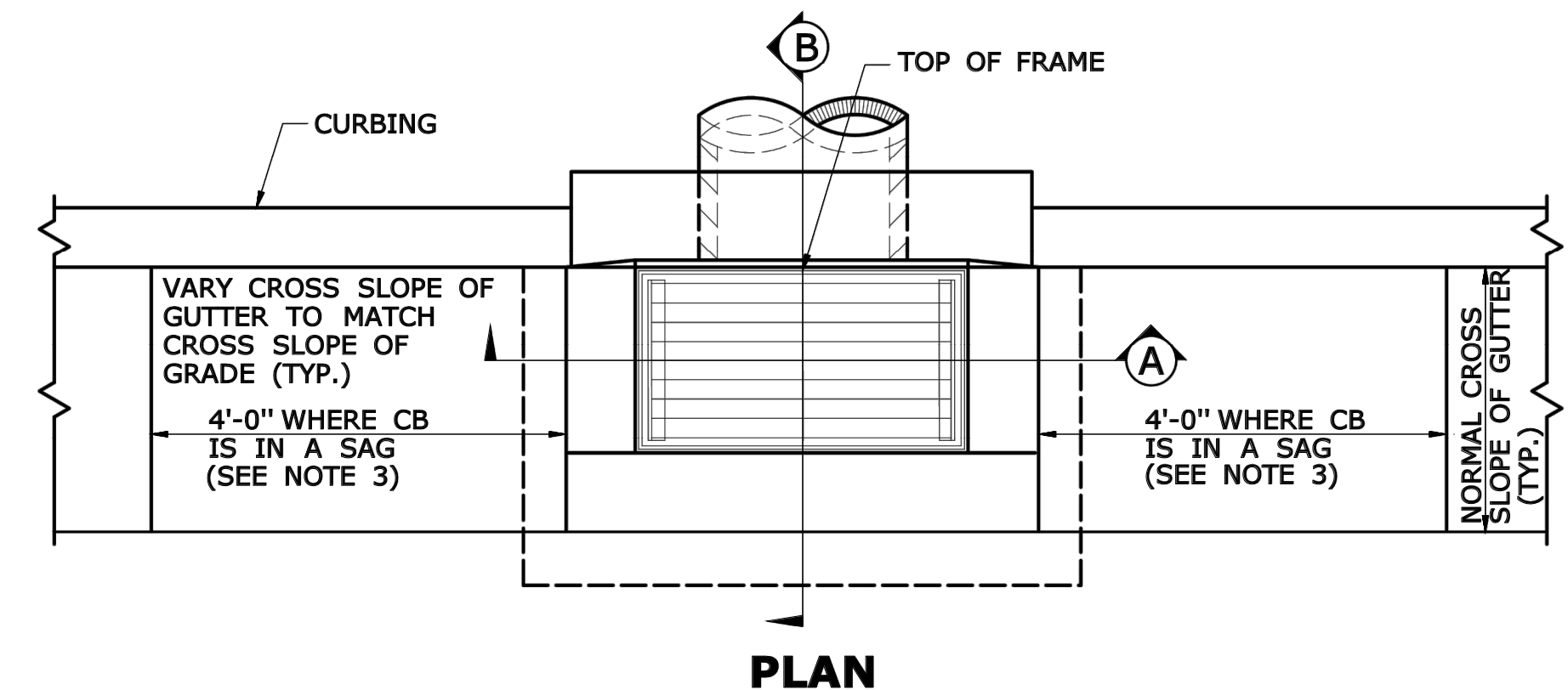


**SECTION A**  
**TYPE "C" & "C-L" DROP INLET  
(TYPE "C-L" TOP SHOWN)**

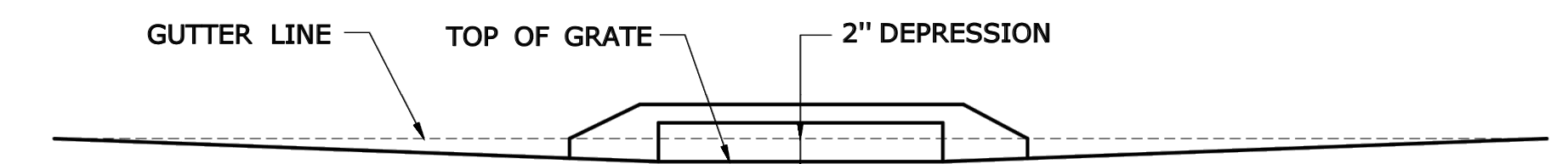


**SECTION B**  
**TYPE "C" DROP INLET**

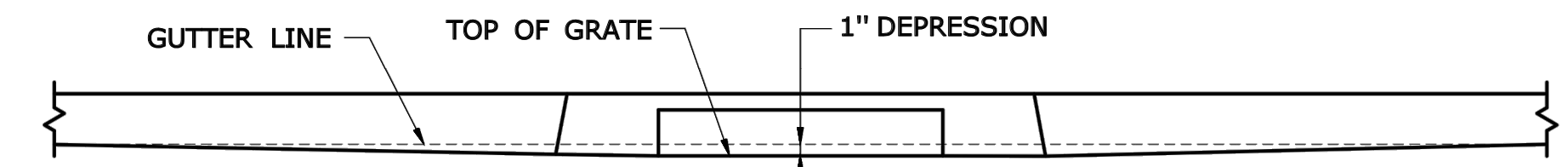
- GENERAL NOTES:**
- FOR CATCH BASIN TOPS, SEE DRAWING NO. MDS-5
  - ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.
  - USE 6'-0" ON UPGRADE SIDE (SEE PLAN VIEW) OF CONTINUOUS GRADE AND 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED BY THE ENGINEER.
  - IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE DIMENSIONS SHOWN. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3". NO PROJECTION SHALL EXTEND INSIDE THE LIMITS FOR THE CATCH BASIN OPENINGS SHOWN IN THE SECTION VIEWS \*\*.
  - WALL THICKNESS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. 12" THICKNESS SHALL START AFTER THE FIRST 10'.
  - SPACERS CAN BE EITHER CONCRETE MASONRY UNIT OR PRECAST WITH THE REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) AS NEEDED TO PROVIDE THE PROPER GRADE SHOWN ON THE PLANS.
  - TOP OF FRAME ELEVATION SHALL BE MEASURED IN THE CENTER OF GRATE AT GUTTER LINE.



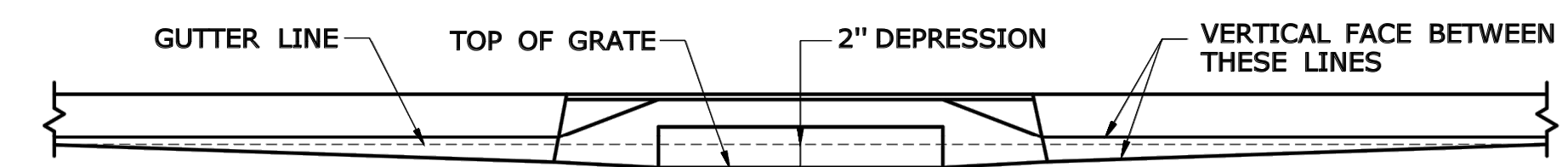
**CATCH BASINS IN A LINE WITH 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING**



**CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED**



**CATCH BASINS IN A LINE WITH 6" CONCRETE CURBING OR 6" STONE CURBING**



**CATCH BASINS IN A LINE WITH 6" BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)**

**DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN**

NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
LAND DEVELOPMENT | ENGINEERING DESIGN | CONSTRUCTION SERVICES  
DBE | DAS | MBE | CMASDC CERTIFIED  
CIVIL | GEOTECHNICAL  
SURVEY | ENVIRONMENTAL

FREEMAN COMPANIES, LLC  
36 JOHN STREET  
HARTFORD, CT 06106  
WWW.FREEMANCO.COM  
TEL: (860) 251-9550  
TOLL FREE: (800) 664-5141  
FAX: (860) 886-7161

ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETSCAPE PHASE III  
OLD ROUTE 7 & LAUREL HILL ROAD**

BROOKFIELD, CONNECTICUT

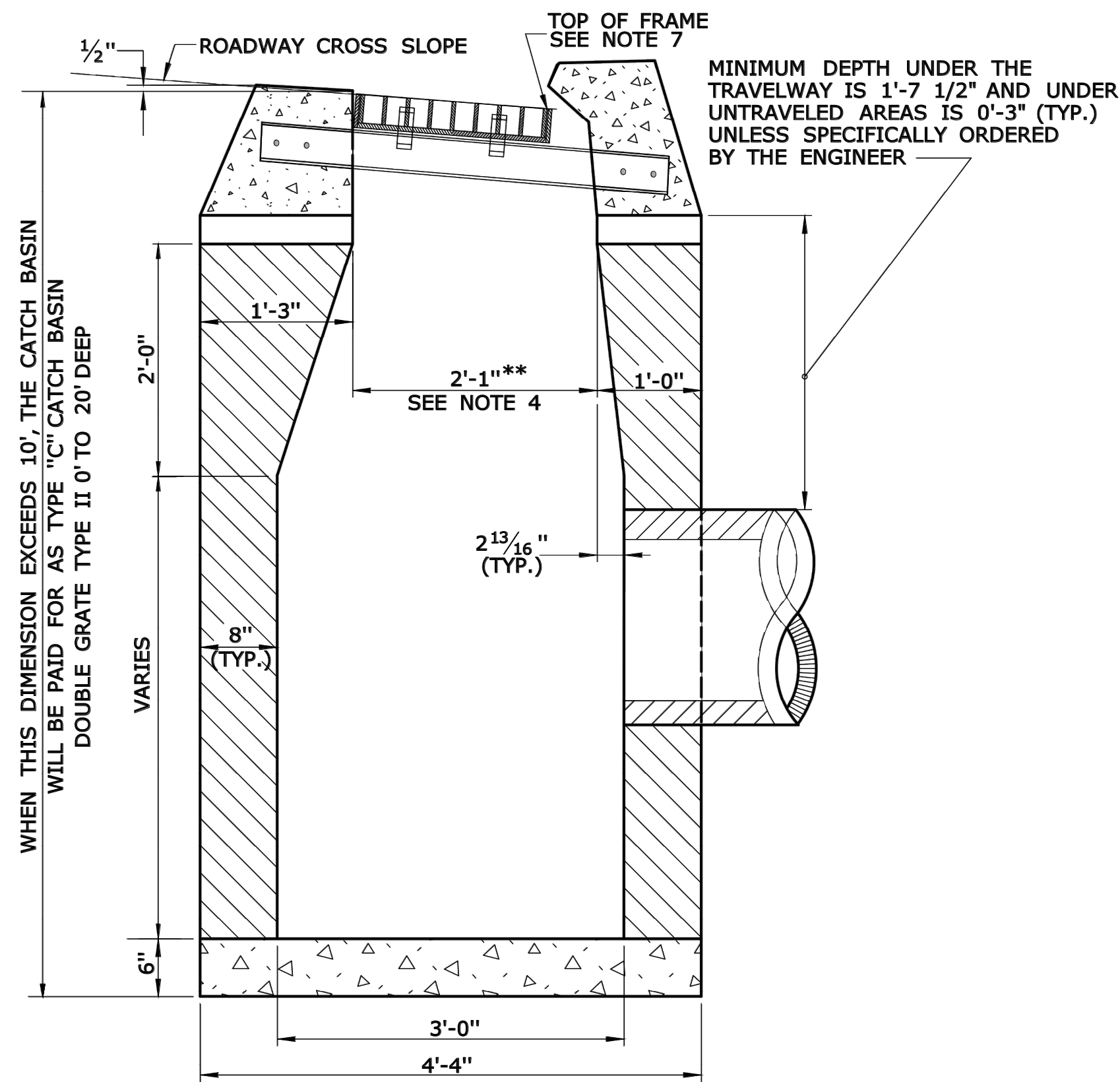
DESIGNED: Y.L.  
DRAFTED: C.S.  
CHECKED: Y.L.  
APPROVED: P.A.R.  
SCALE: AS NOTED  
FC PROJECT NO.: 2019-0106  
DATE: 3/26/2020  
CAD: HW\_MST\_2019\_0106\_MDS 3-11

TITLE:  
CATCH BASIN AND  
DROP INLET

DWG NO.:  
MDS-4

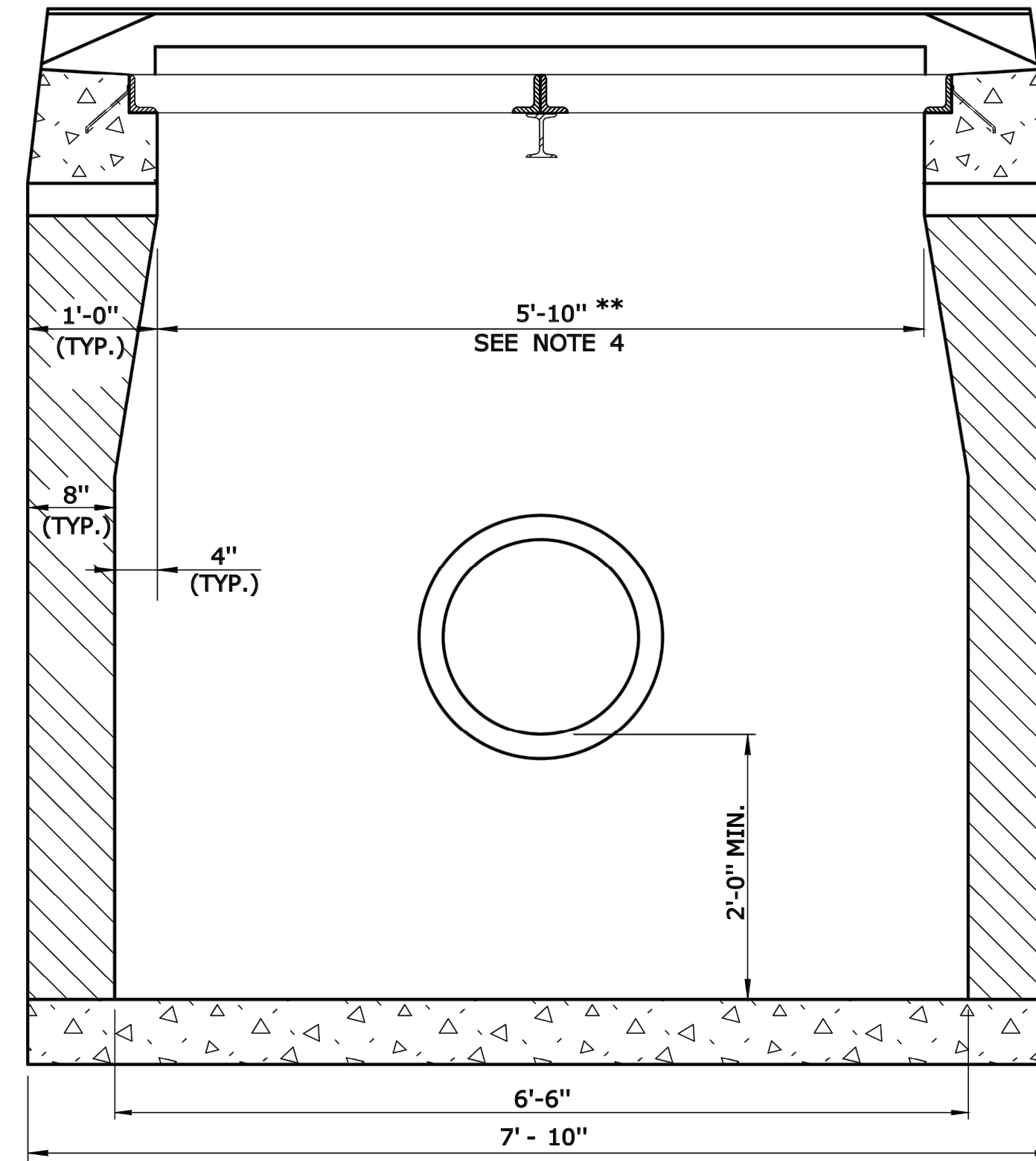
SHEET NO.:

FREEMAN COMPANIES, LLC - R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MST\_2019\_0106\_MDS 3-11.dwg Jan 26, 2021-4:23pm Plotted By: caurprant



**SECTION B**

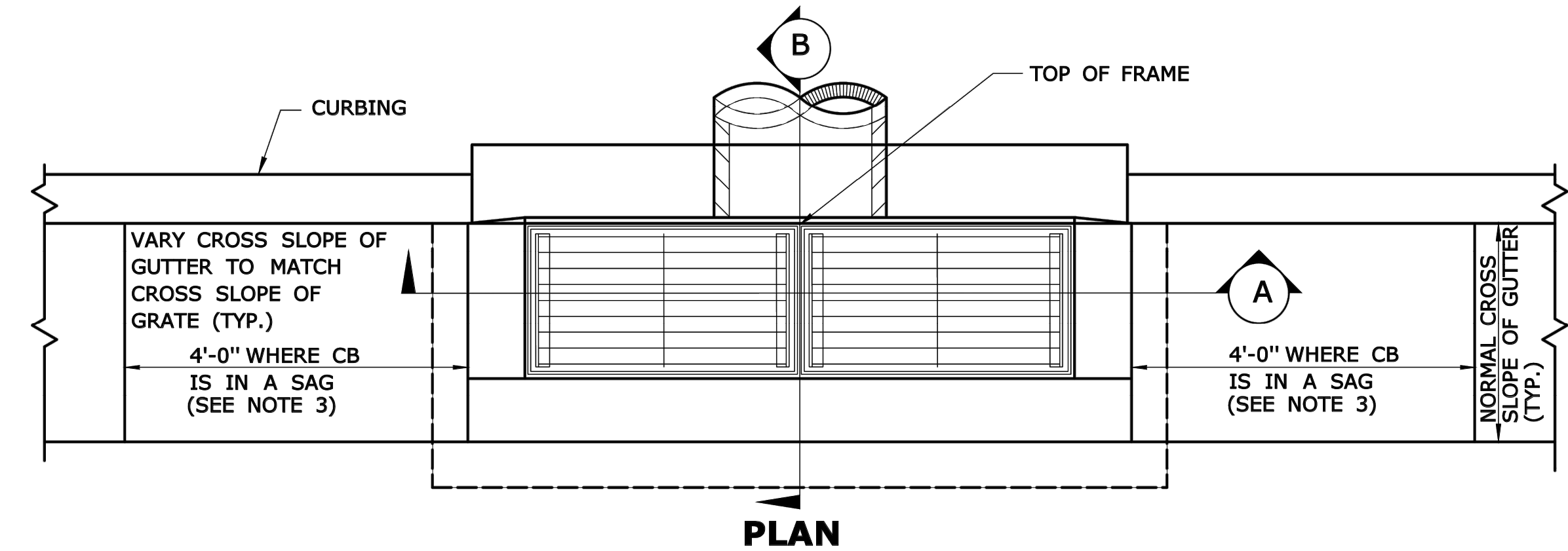
**TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II**



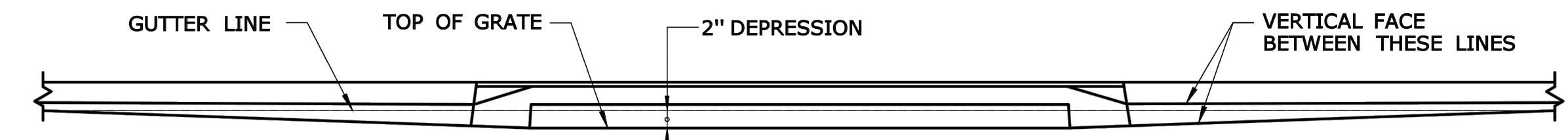
**SECTION A**

**GENERAL NOTES:**

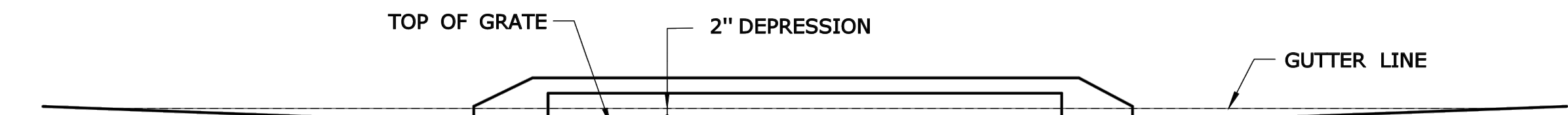
1. FOR CATCH BASIN TOPS, SEE DRAWING NO. MDS-5
2. ALL THE FACES OF THE STRUCTURE IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.
3. USE 6'-0" ON UPGRADE SIDE (SEE PLAN VIEW) OF CONTINUOUS GRADE AND 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE AS DIRECTED BY THE ENGINEER.
4. IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH DIMENSION SHOWN. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3". NO PROJECTION SHALL EXTEND INSIDE THE LIMITS NOTED BY \*\*.
5. WALL THICKNESS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. 12" THICKNESS SHALL START AFTER THE FIRST 10'.
6. SPACERS CAN BE EITHER CONCRETE MASONRY UNIT OR PRECAST, WITH THE REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) AS NEEDED TO PROVIDE THE PROPER GRADE SHOWN ON THE PLAN.
7. TOP OF FRAME ELEVATION SHALL BE MEASURED IN BETWEEN BOTH GRATES AT THE GUTTER.



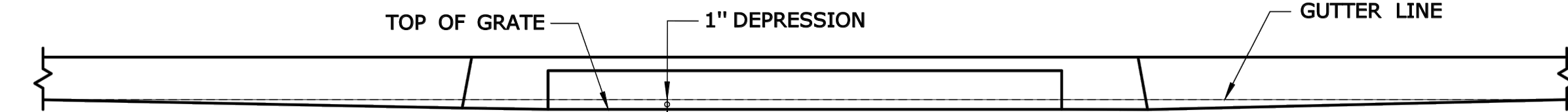
**PLAN**



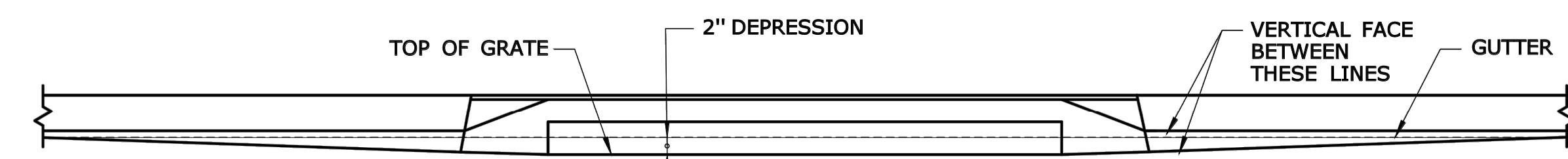
**CATCH BASINS IN A LINE WITH 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING**



**CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED**

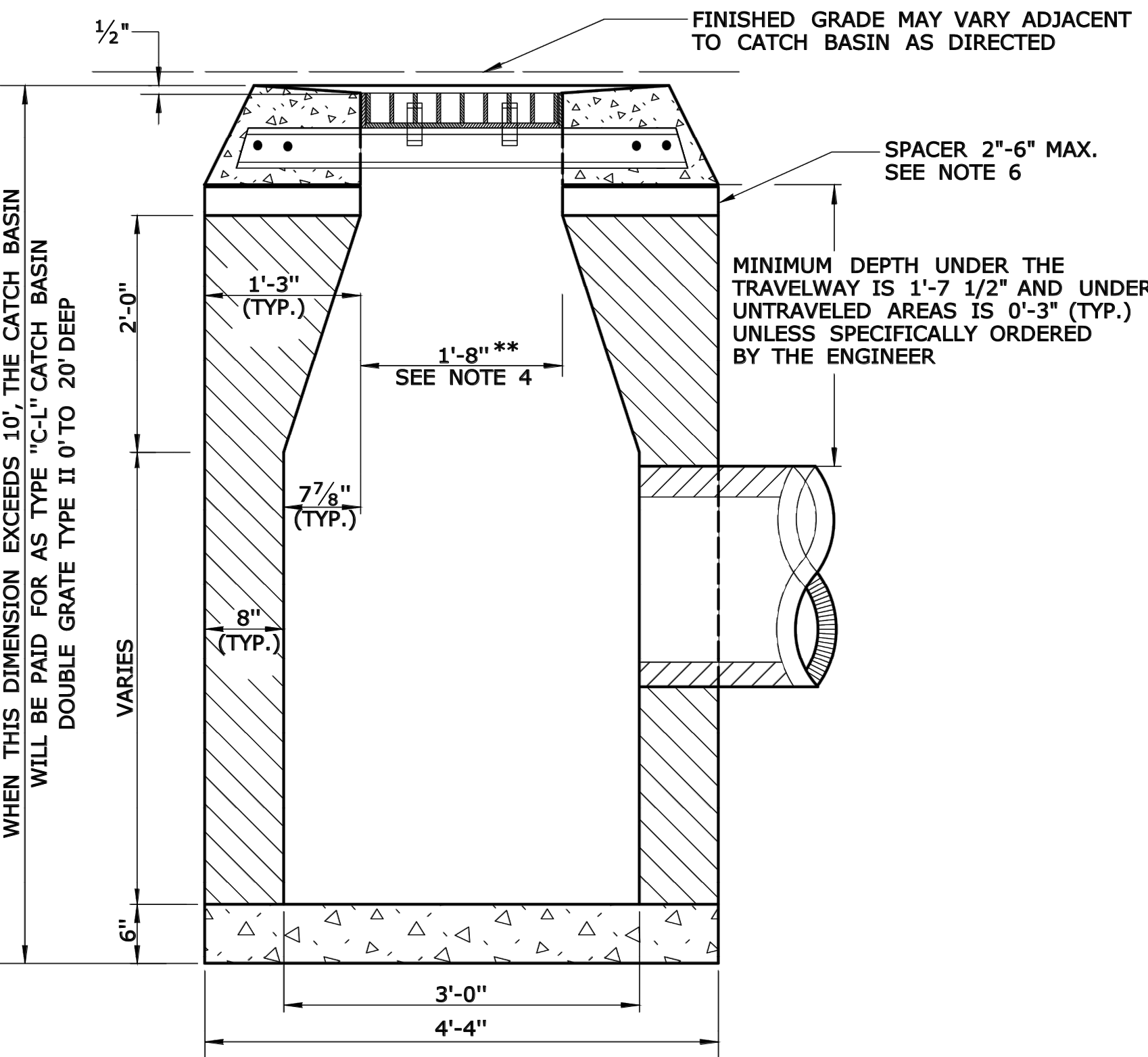


**CATCH BASINS IN A LINE WITH 6" CONCRETE CURBING OR 6" STONE CURBING**



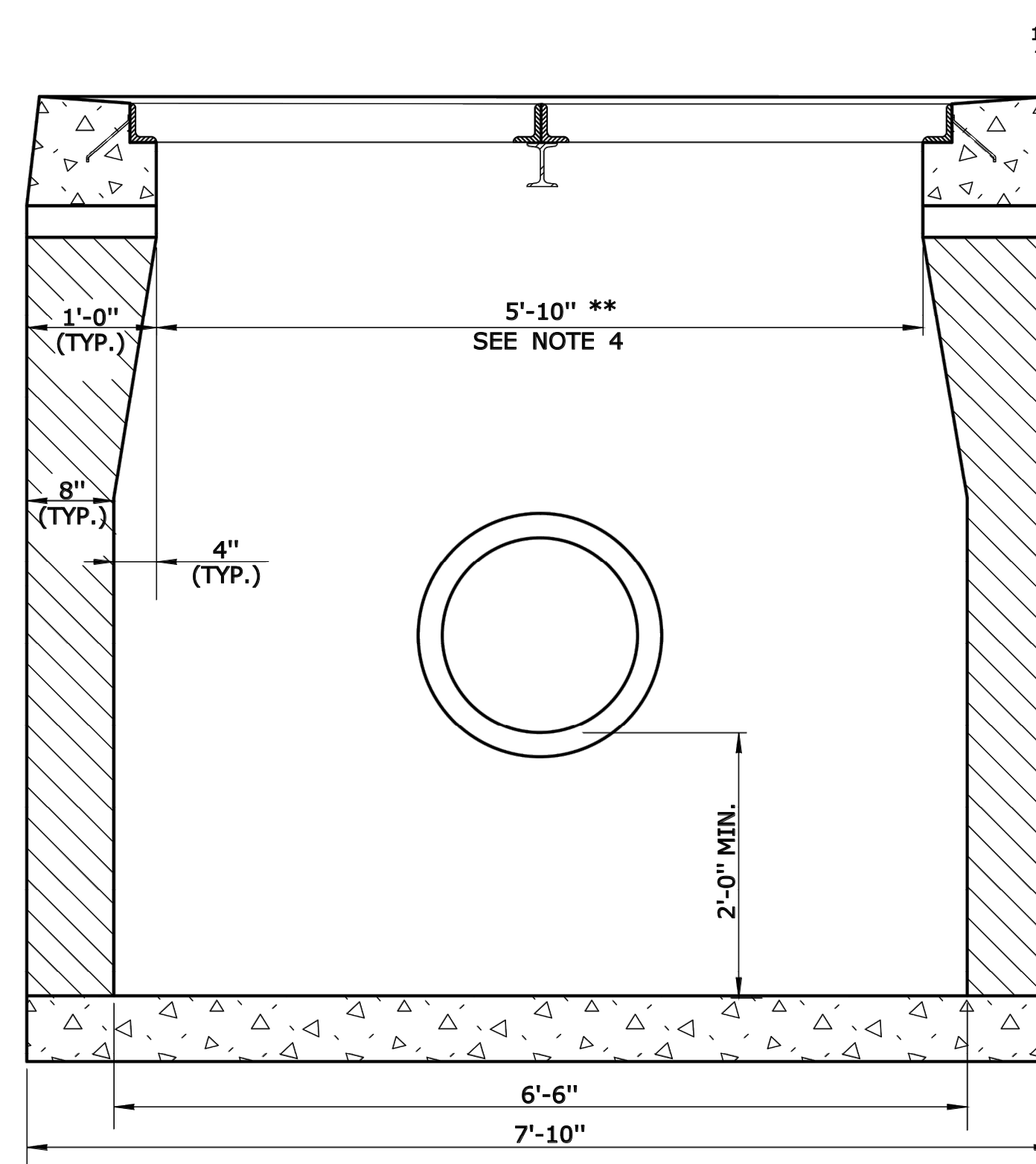
**CATCH BASINS IN A LINE WITH 6" BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)**

**DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN DOUBLE GRATE TYPE II**



**SECTION B**

**TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II**



**SECTION A**

NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
LAND DEVELOPMENT | ENVIRONMENTAL DESIGN | CONSTRUCTION SERVICES  
 DBE | DAS | MBE | GINASC CERTIFIED  
 CIVIL | GEOTECHNICAL  
 SURVEY | ENVIRONMENTAL

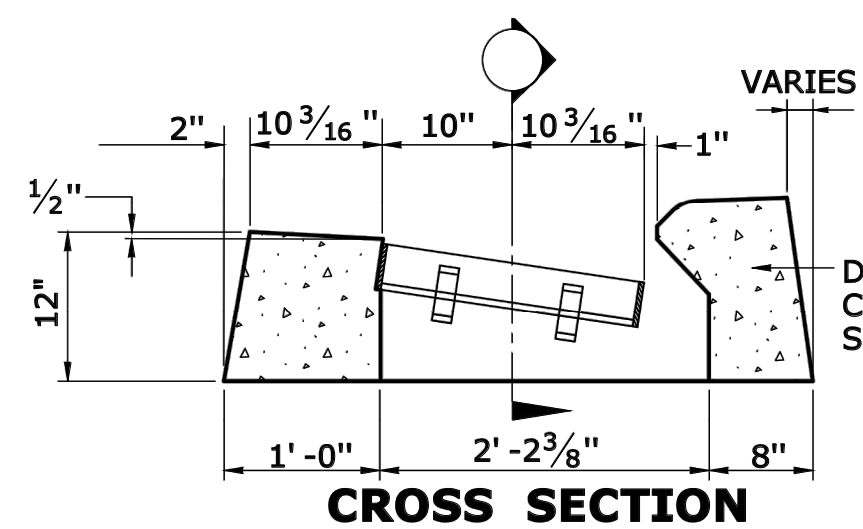
FREEMAN COMPANIES, LLC  
 36 JOHN STREET  
 HARTFORD, CT 06106  
 WWW.FREEMANCO.COM  
 TEL: (860) 251-9550  
 TOLL FREE: (800) 664-5141  
 FAX: (860) 986-7161

ELEVATE YOUR EXPECTATIONS

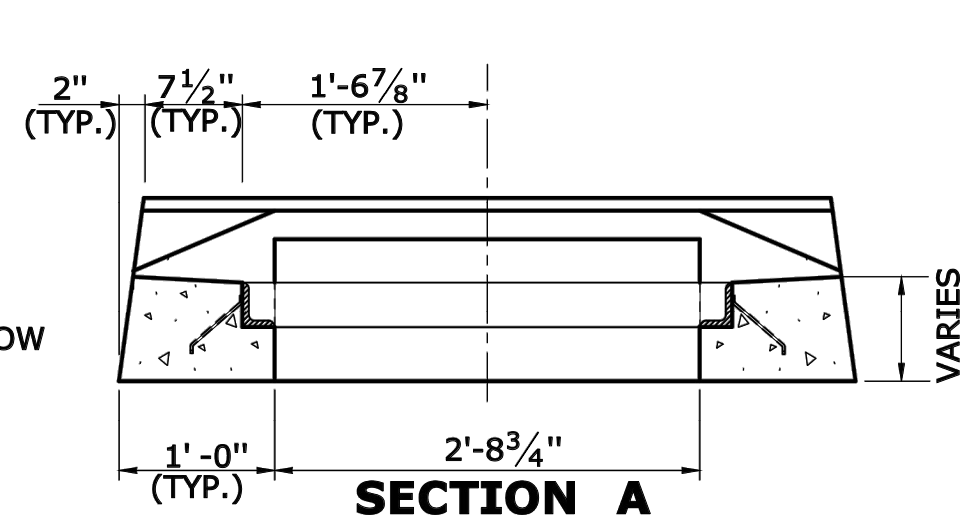
**BROOKFIELD STREETScape PHASE III**  
**OLD ROUTE 7 & LAUREL HILL ROAD**  
 BROOKFIELD, CONNECTICUT

DESIGNED:	Y.L.
DRAFTED:	C.S.
CHECKED:	Y.L.
APPROVED:	P.A.R.
SCALE:	AS NOTED
FC PROJECT NO.:	2019-0106
DATE:	3/26/2020
CAD/HW_MST_2019_0106_MDS	9-11
TITLE:	CATCH BASIN TYPE DOUBLE GRATE II
DWG NO.:	MDS-5
SHEET NO.:	

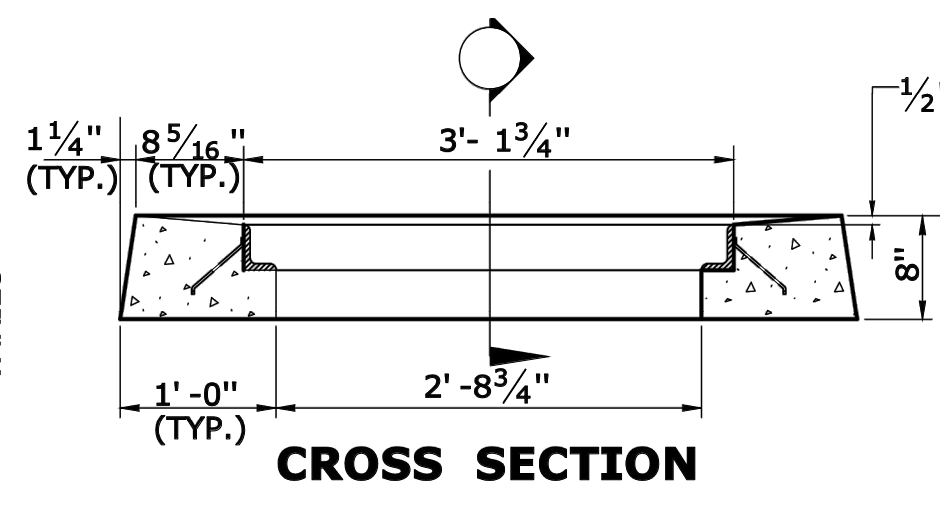




**CROSS SECTION**  
**TYPE "C" CATCH BASIN TOP**

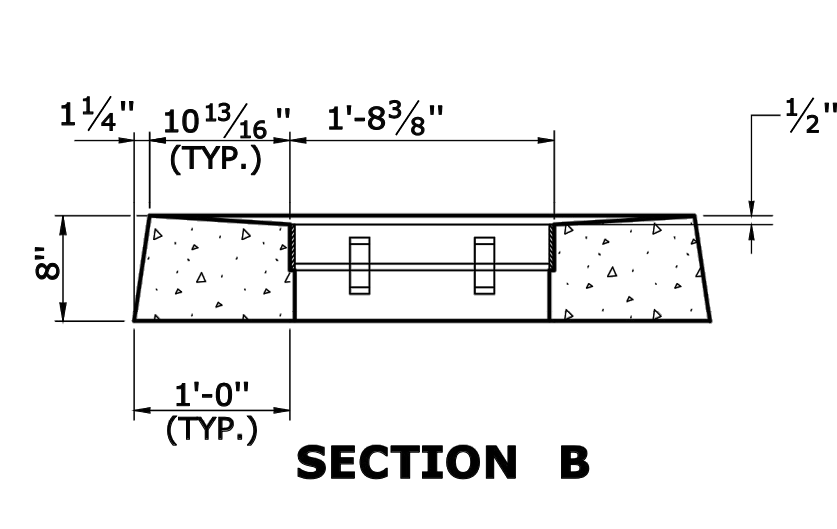


**SECTION A**



**CROSS SECTION**

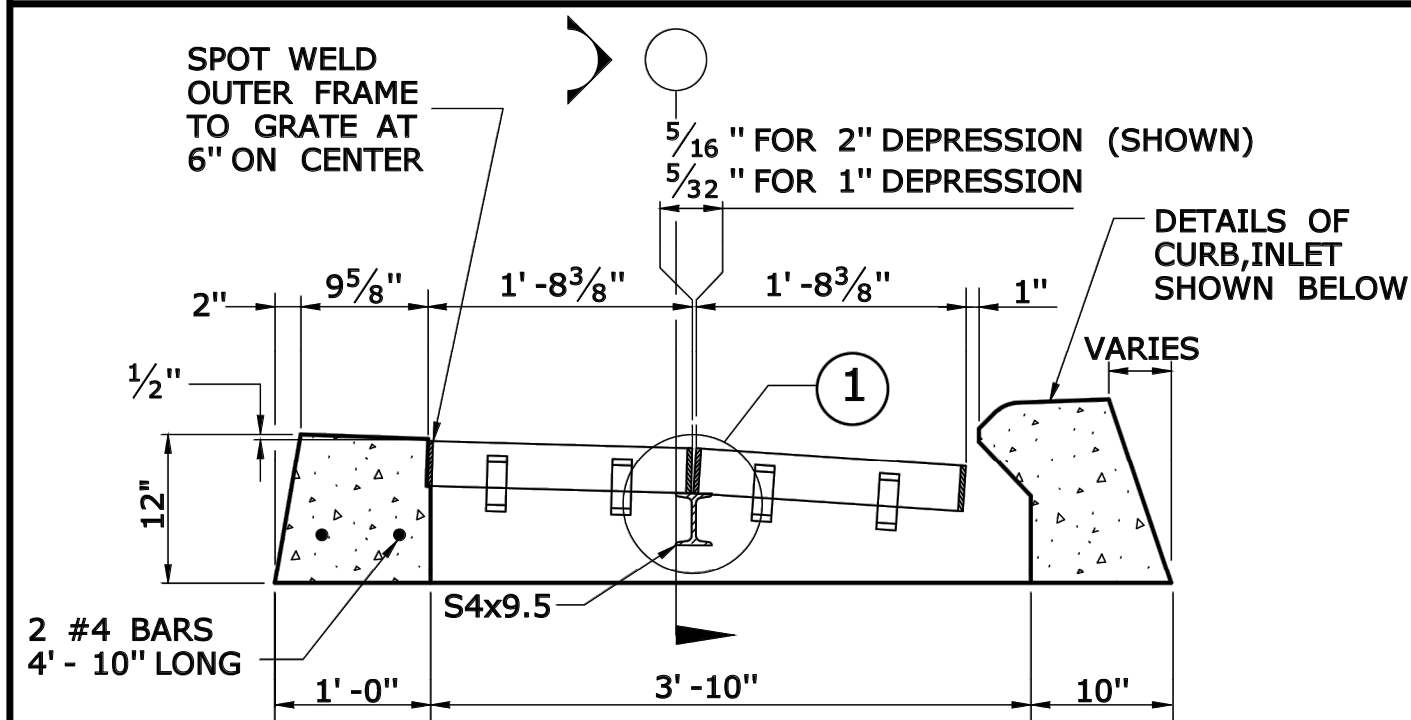
**TYPE "C-L" CATCH BASIN TOP**



**SECTION B**

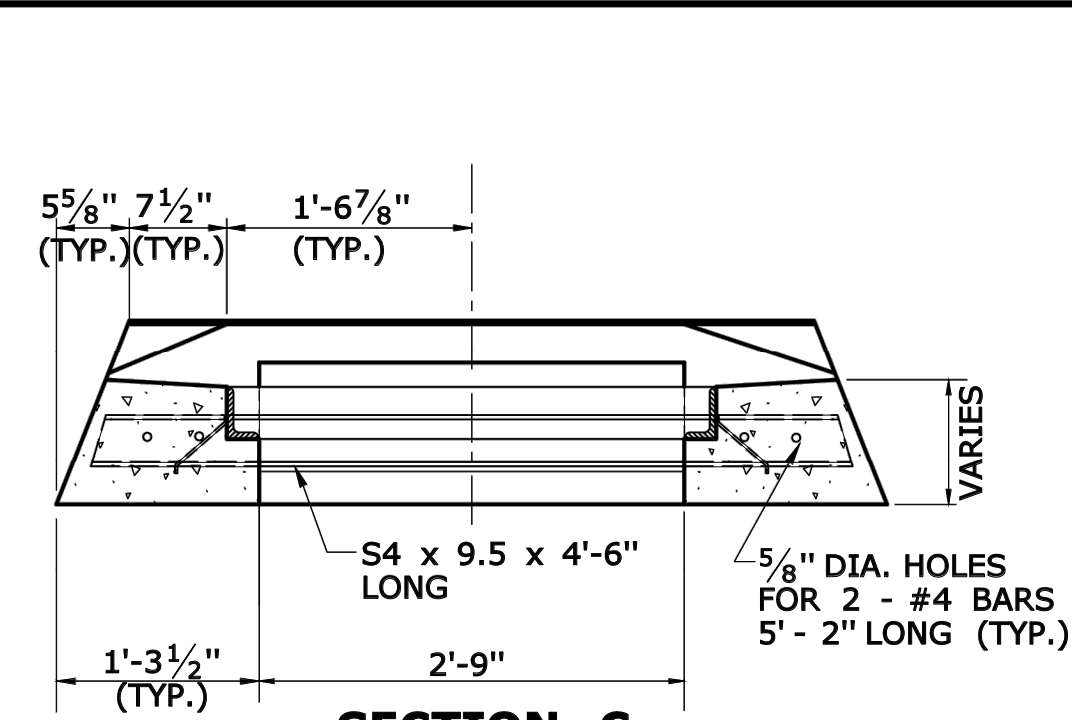
**GENERAL NOTES:**

- 1. FOR DETAILS OF FRAMES AND GRATES, SEE DRAWING NO. MDS-6
- 2. ALL BARS SHALL HAVE A MINIMUM 2" COVER.

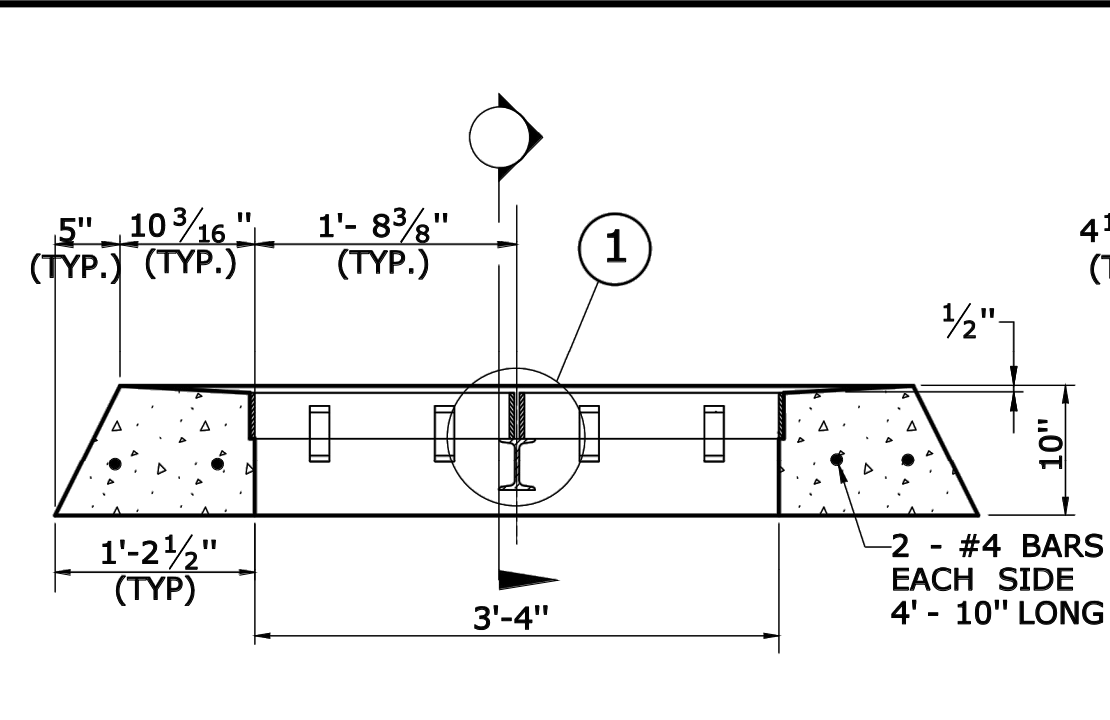


**CROSS SECTION**

**TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I TOP**

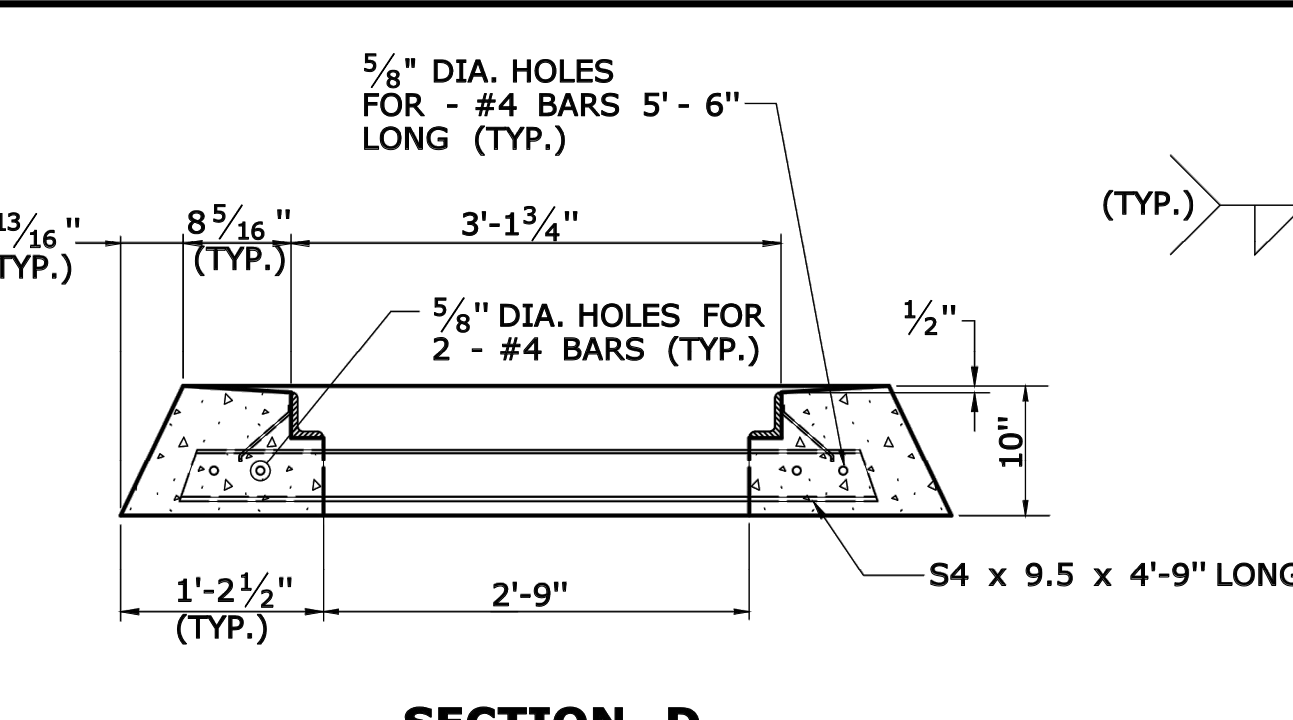


**SECTION C**

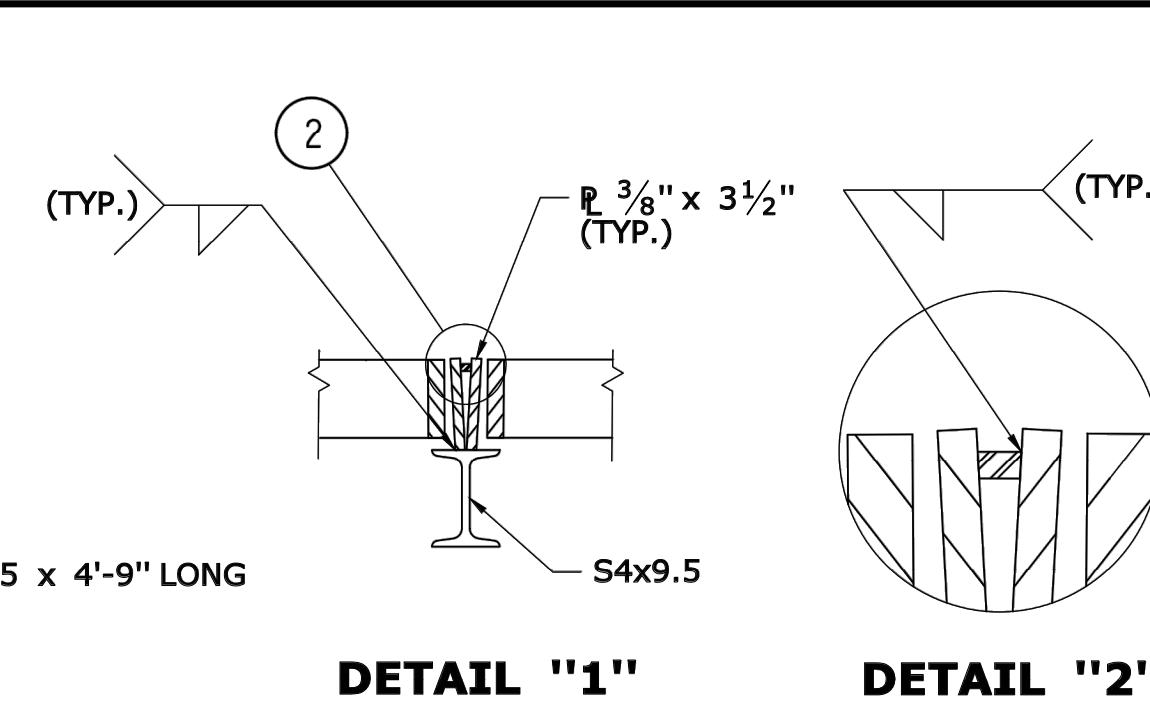


**CROSS SECTION**

**TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE I TOP**

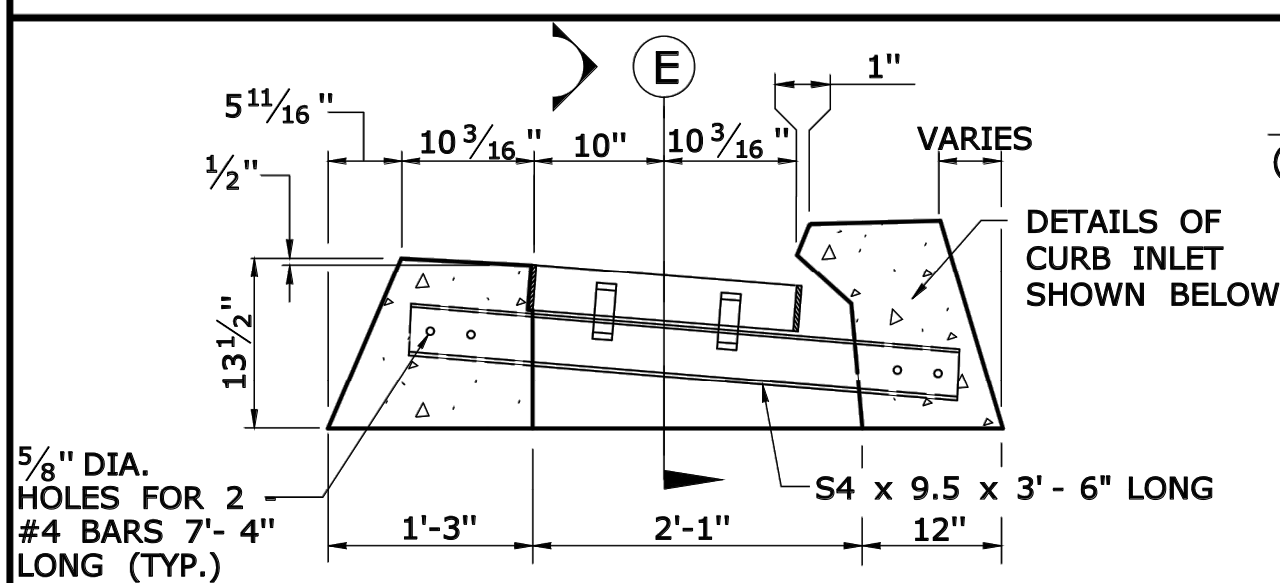


**SECTION D**



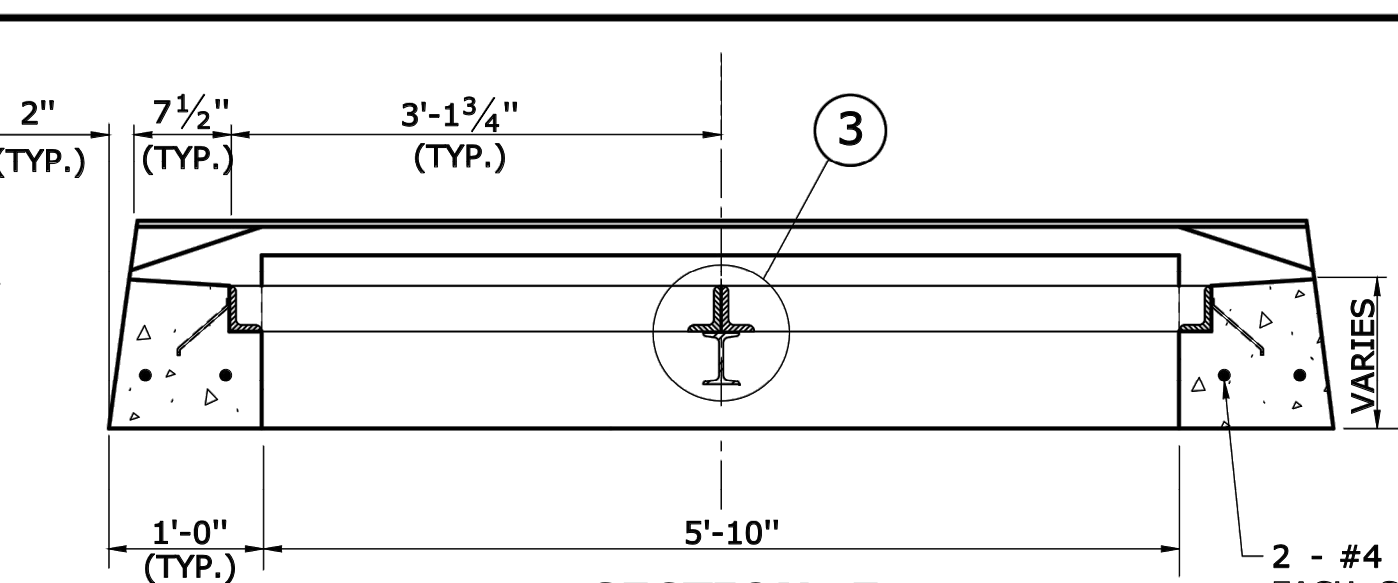
**DETAIL "1"**

**DETAIL "2"**

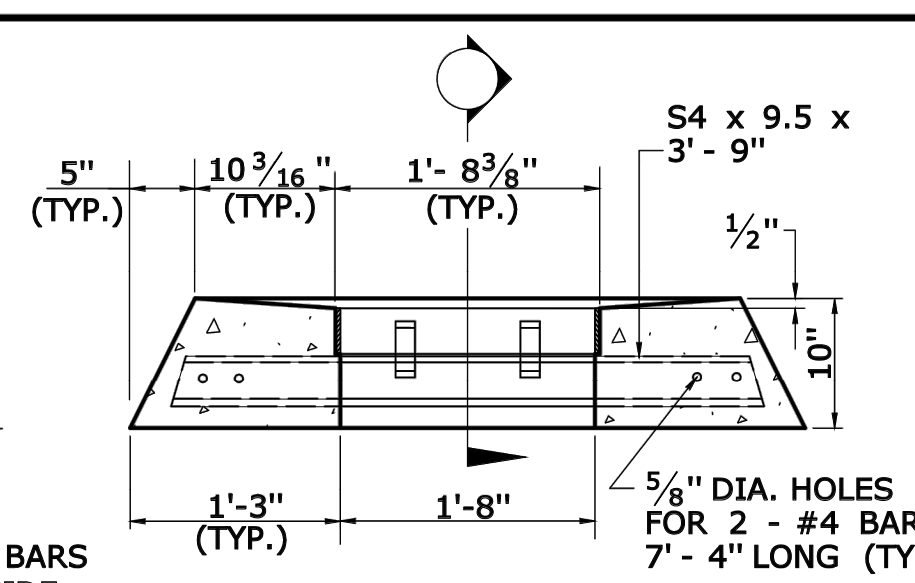


**CROSS SECTION**

**TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II TOP**

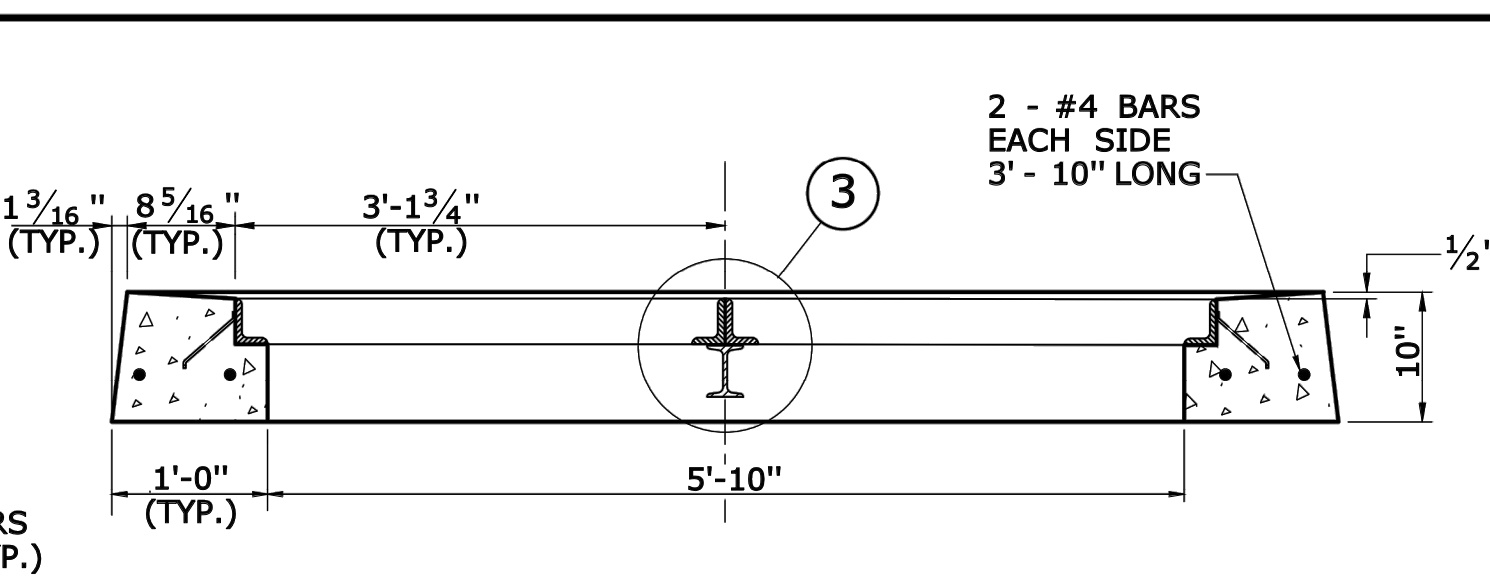


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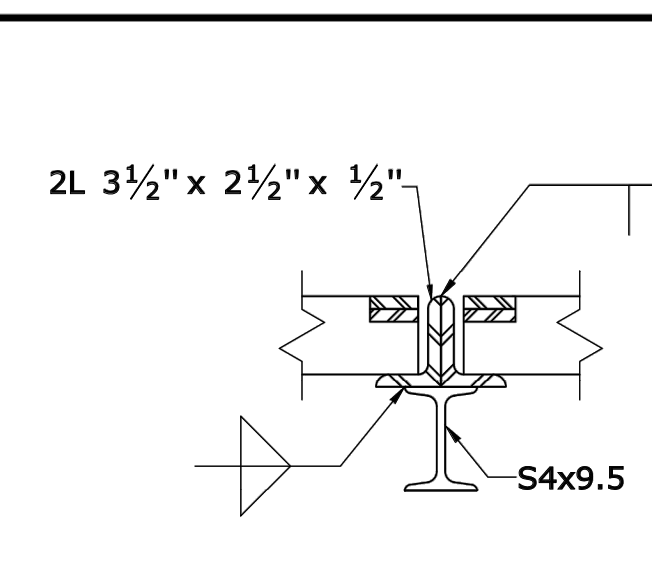


**CROSS SECTION**

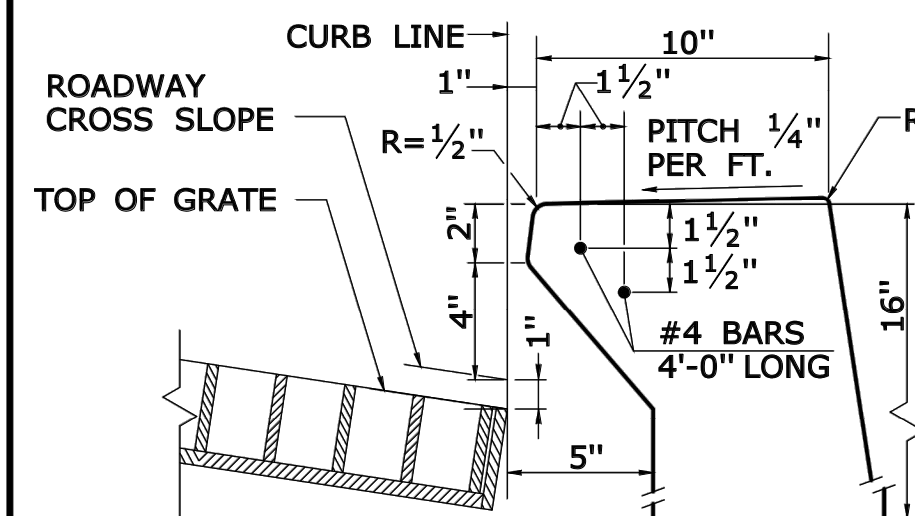
**TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II TOP**



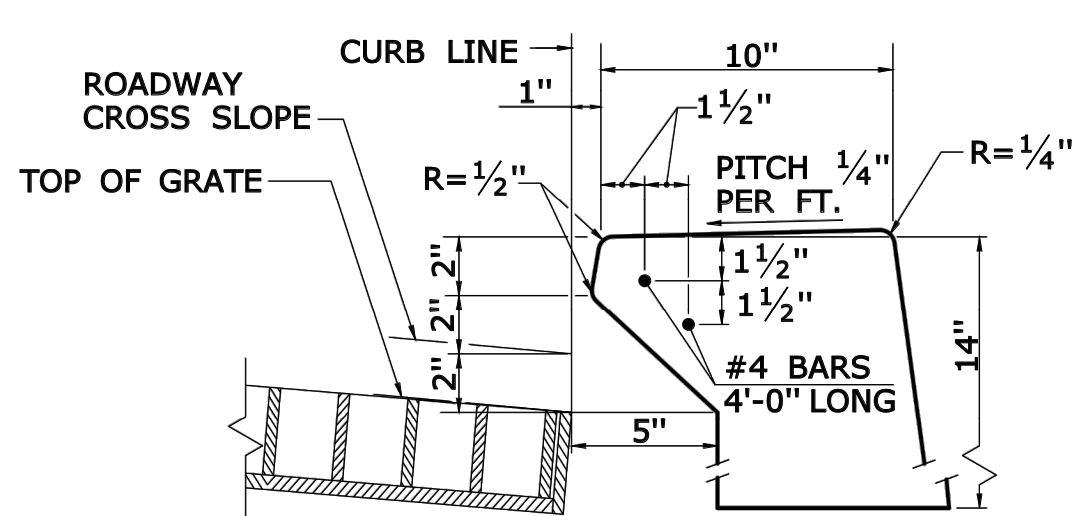
**SECTION F**



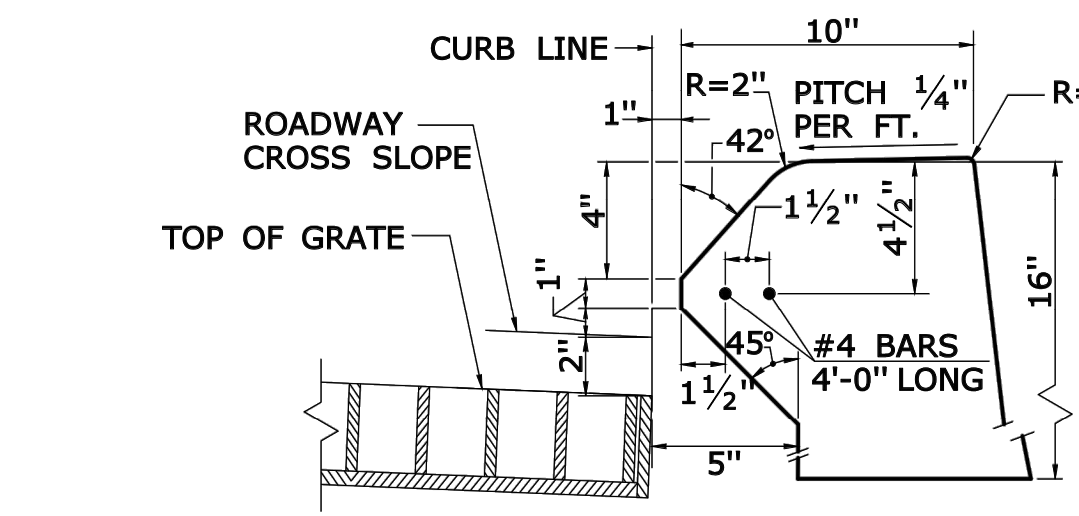
**DETAIL "3"**



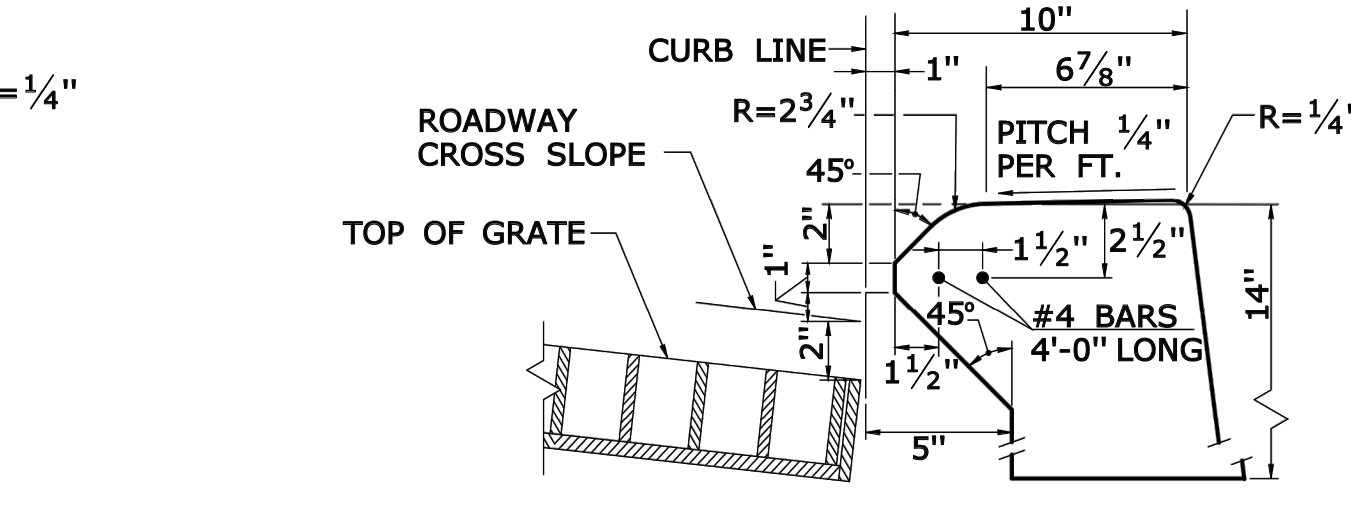
**INLET WITH 6" CONCRETE OR STONE CURBING FOR TYPE "C" CB**



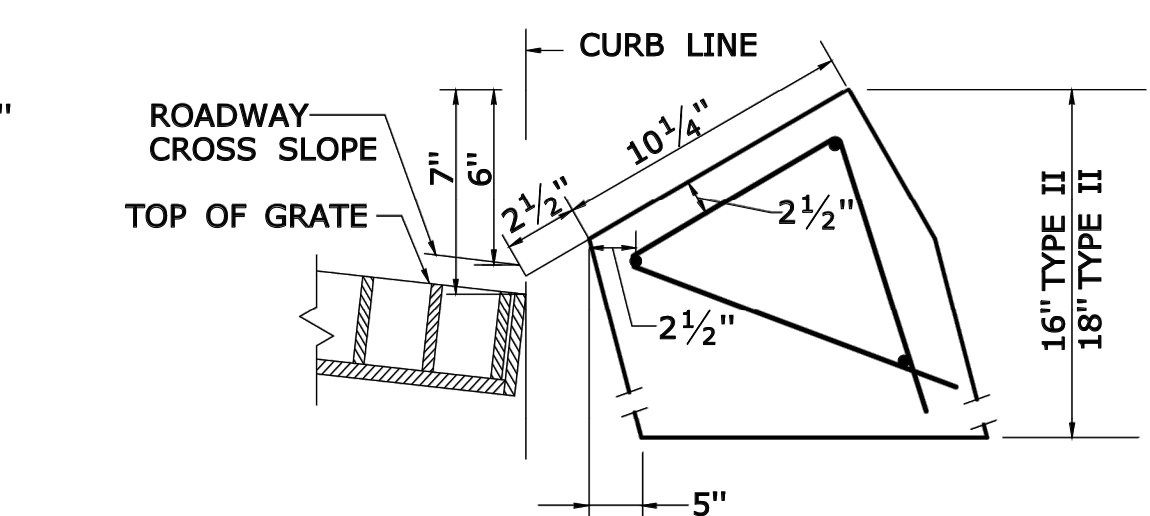
**INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB**



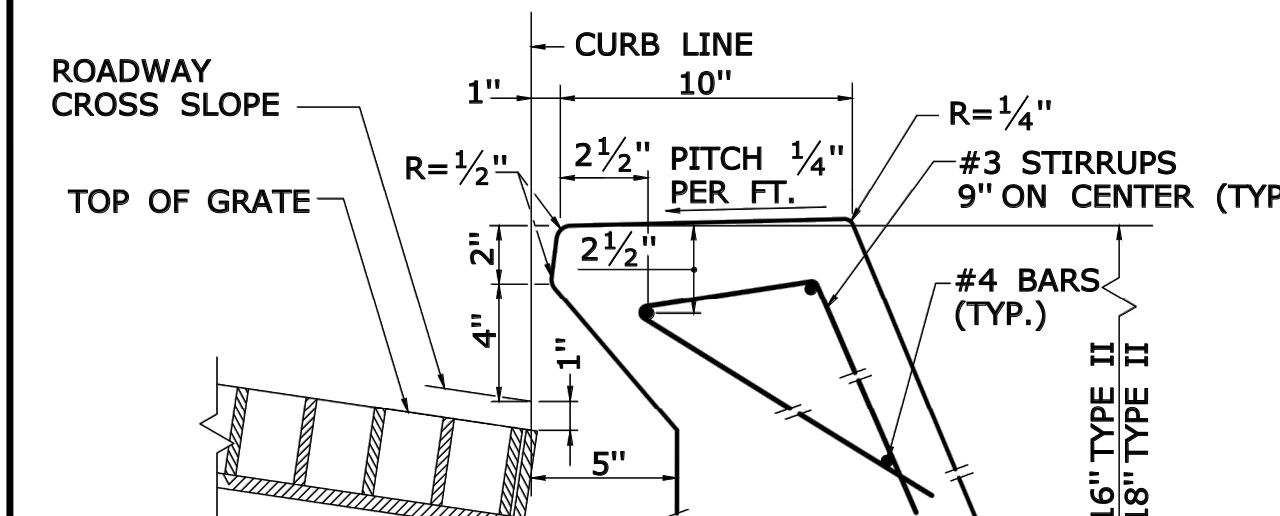
**INLET WITH 6" BITUMINOUS CONCRETE LIP CURBING FOR TYPE "C" CB**



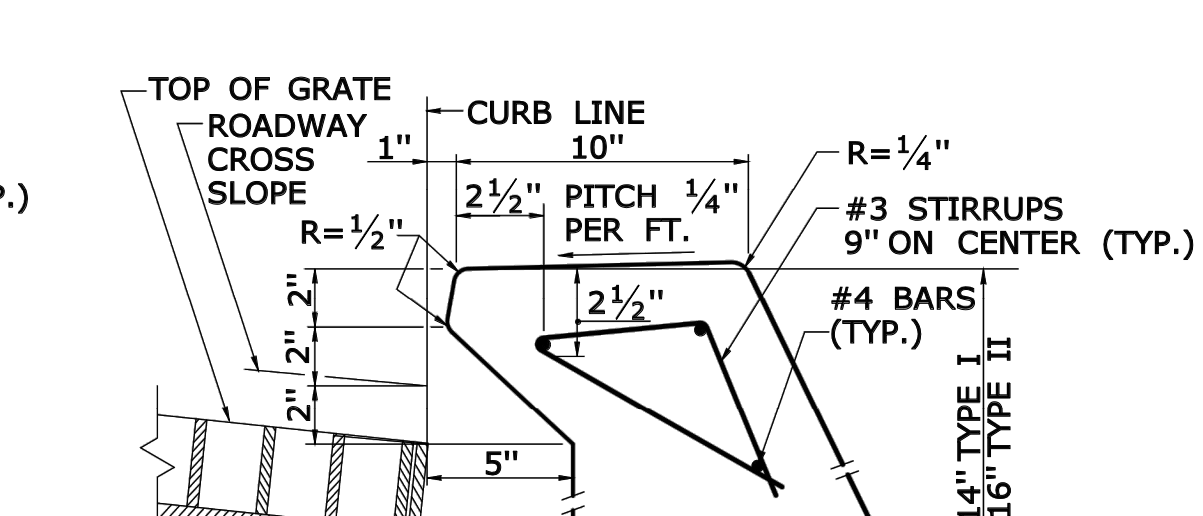
**INLET WITH 4" CONCRETE PARK CURBING FOR TYPE "C" CB**



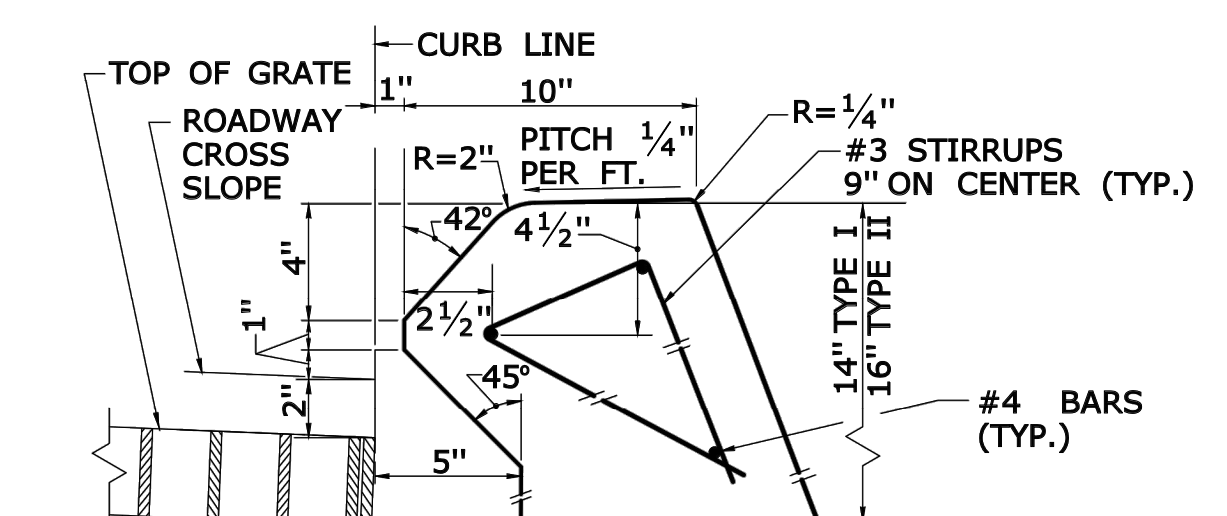
**INLET WITH GRANITE SLOPE CURB FOR TYPE "C" CB**



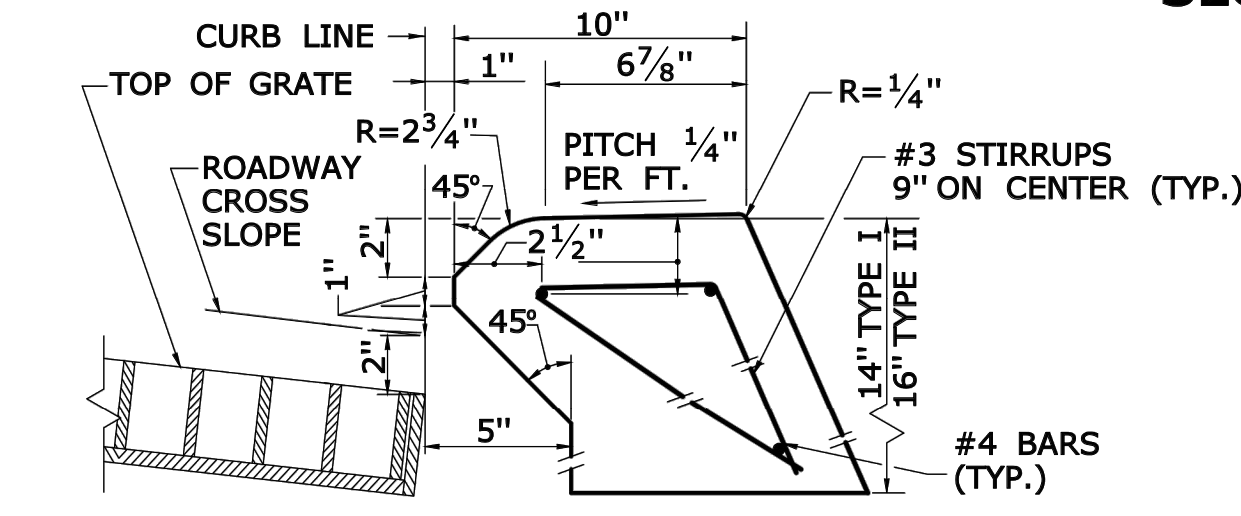
**INLET WITH 6" CONCRETE OR STONE CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II**



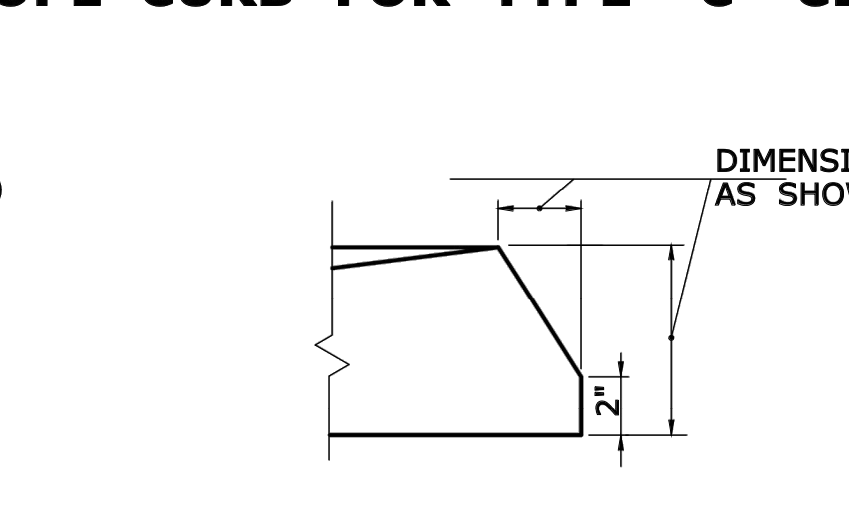
**INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB DOUBLE GRATE TYPE I & II**



**INLET WITH 6" BITUMINOUS CONCRETE LIP CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II**



**INLET WITH 4" CONCRETE PARK CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II**



**ALTERNATE CONSTRUCTION OF TYPE II TOP**

FREEMAN COMPANIES, LLC - R:\2019\2019-0106-Brookfield Streetscape Phase 3\DWG\W\MST\_2019\_0106\_MDS\_3-11.dwg Jan 26, 2020 - 4:23pm Plotted By: ceurpment

NO.	DATE	DESCRIPTION

**FREEMAN COMPANIES**  
 36 JOHN STREET  
 HARTFORD, CT 06106  
 WWW.FREEMANCO.COM  
 TEL: (860) 251-9550  
 TOLL FREE: (800) 664-5141  
 FAX: (860) 266-7161

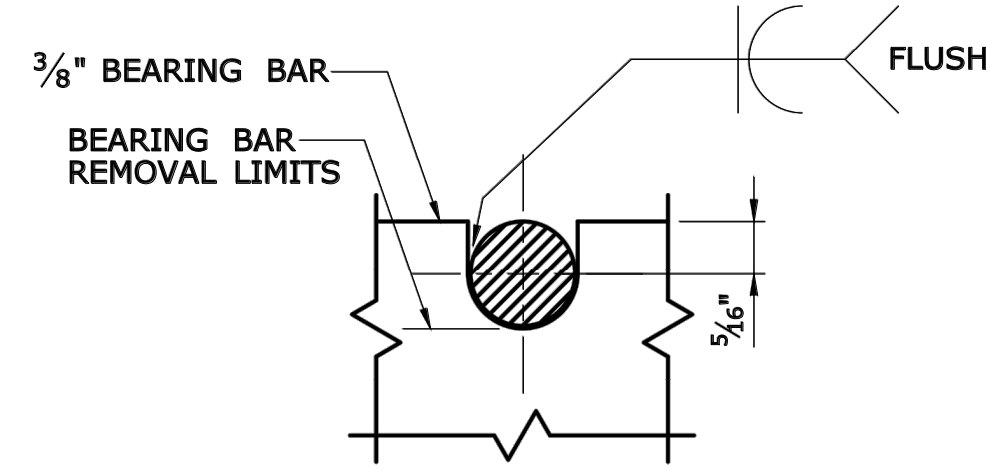
**FREEMAN COMPANIES, LLC**  
 DBE | DAS | MBE | CMASDC CERTIFIED  
 CIVIL | GEOTECHNICAL  
 SURVEY | ENVIRONMENTAL

ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETScape PHASE III**  
**OLD ROUTE 7 & LAUREL HILL ROAD**  
 BROOKFIELD, CONNECTICUT

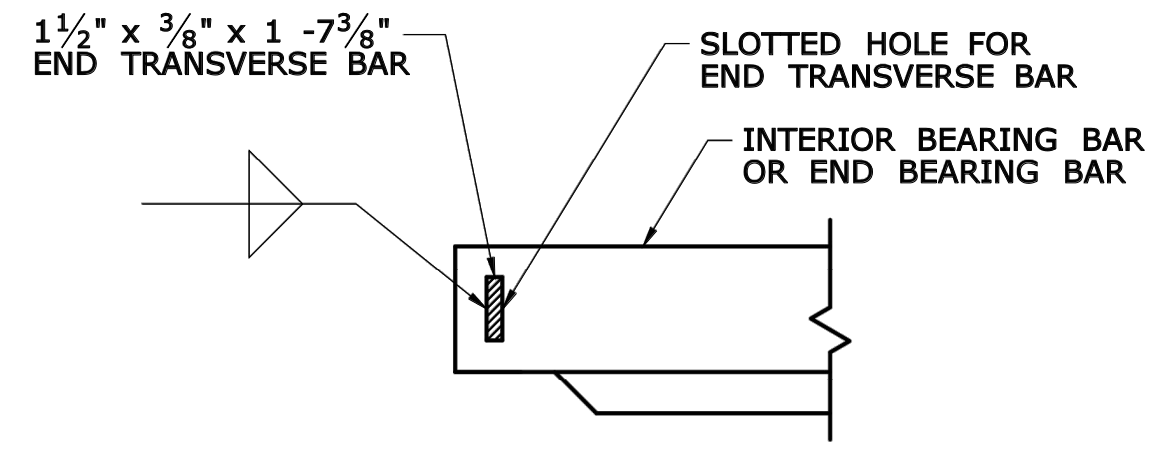
DESIGNED:	Y.L.
DRAFTED:	C.S.
CHECKED:	Y.L.
APPROVED:	P.A.R.
SCALE:	AS NOTED
FC PROJECT NO.:	2019-0106
DATE:	3/26/2020
CAD/HW_MST_2019_0106_MDS	3-11
TITLE:	CATCH BASIN TOPS TYPE "C" & "C-L"
DWG NO.:	MDS-6
SHEET NO.:	

THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF FREEMAN COMPANIES, LLC

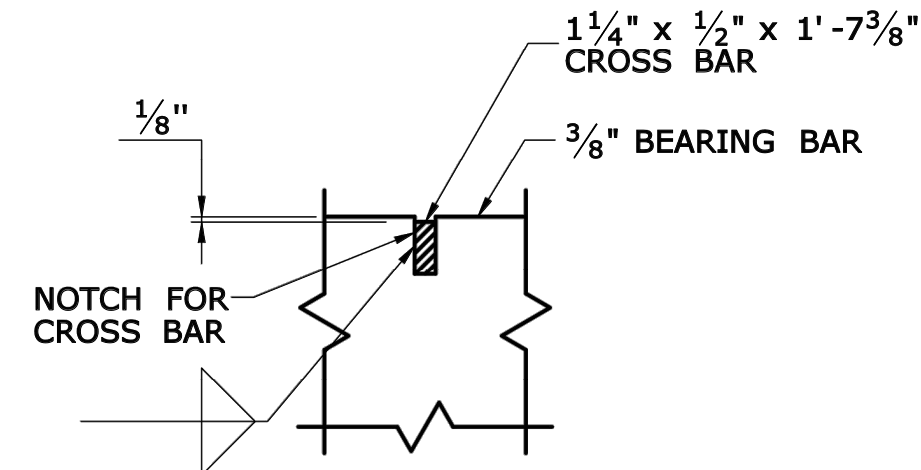


NOTE:  
 $\frac{5}{8}$ " DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

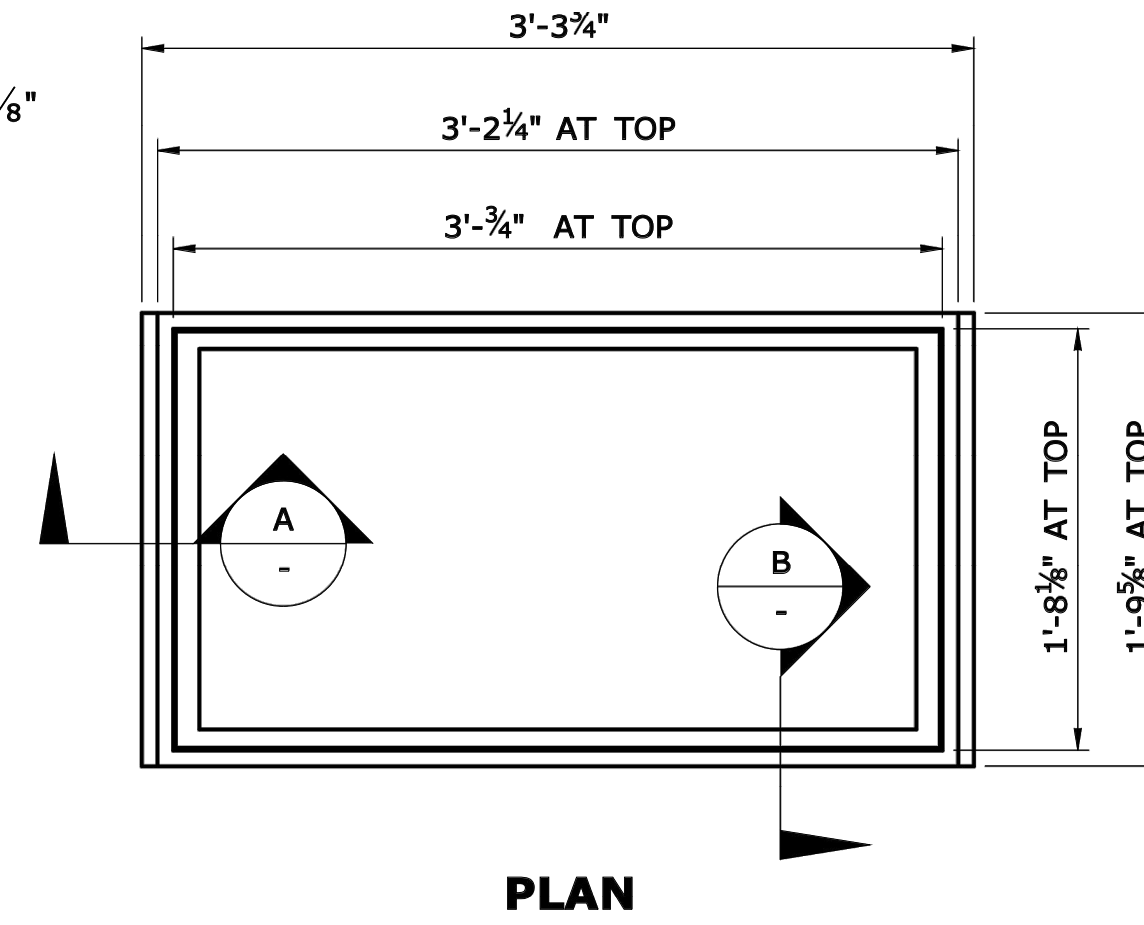
**ROUND BAR ATTACHMENT  
 CATCH BASIN GRATE TYPE A**



**END TRANSVERSE BAR ATTACHMENT  
 CATCH BASIN GRATE TYPE A AND B**



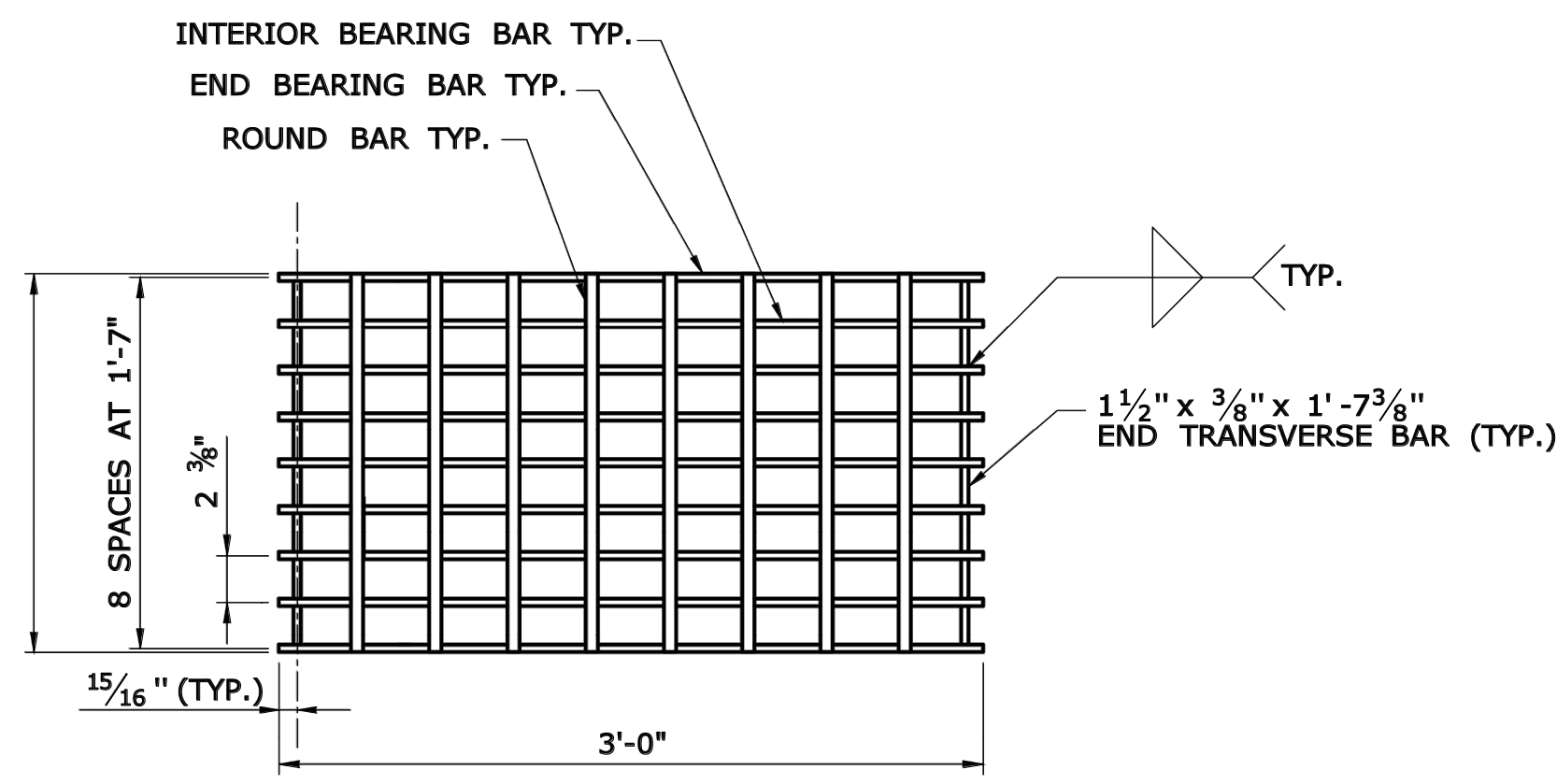
**CROSS BAR ATTACHMENT  
 CATCH BASIN GRATE TYPE B**



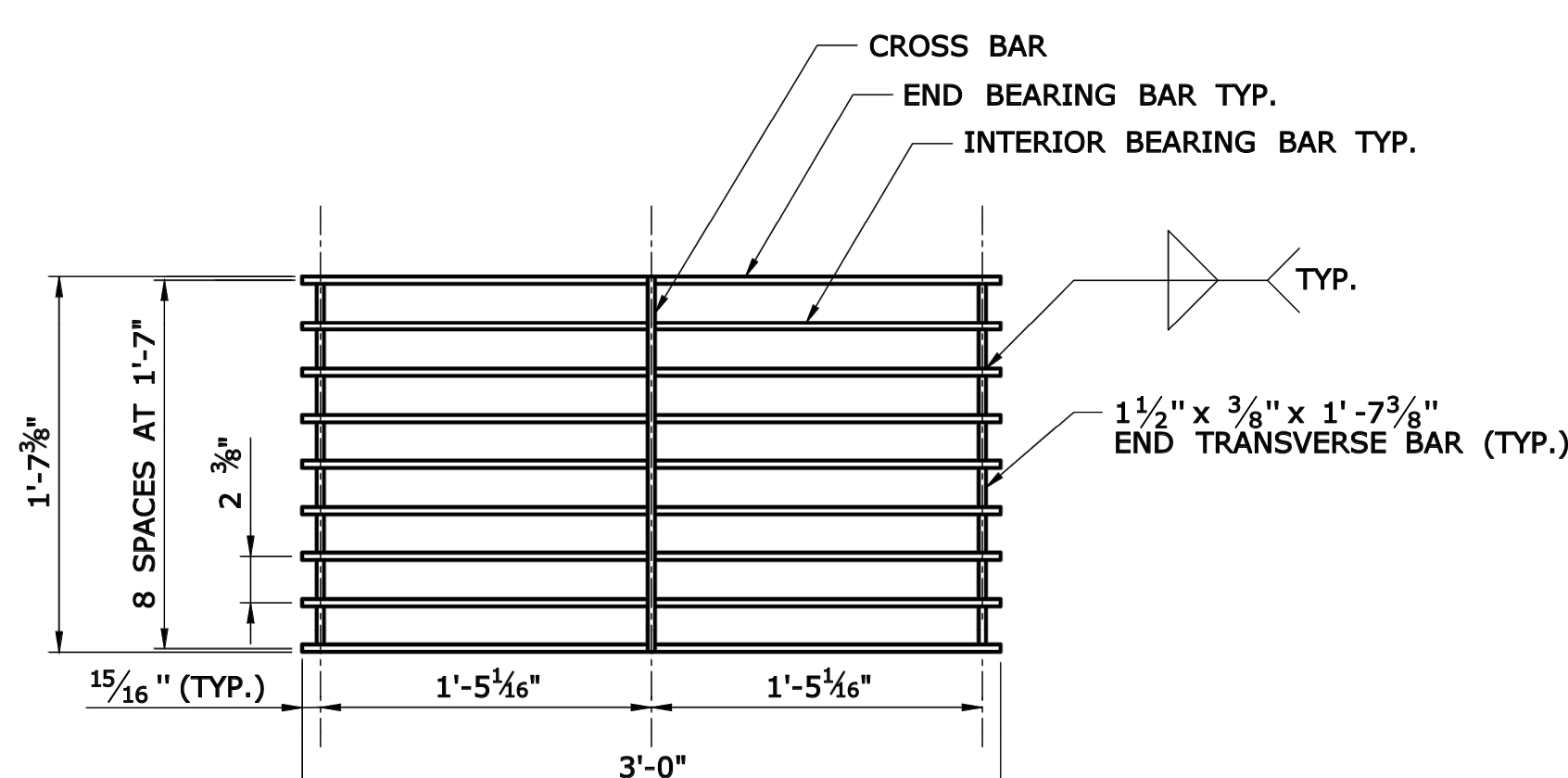
**PLAN**

**GENERAL NOTES:**

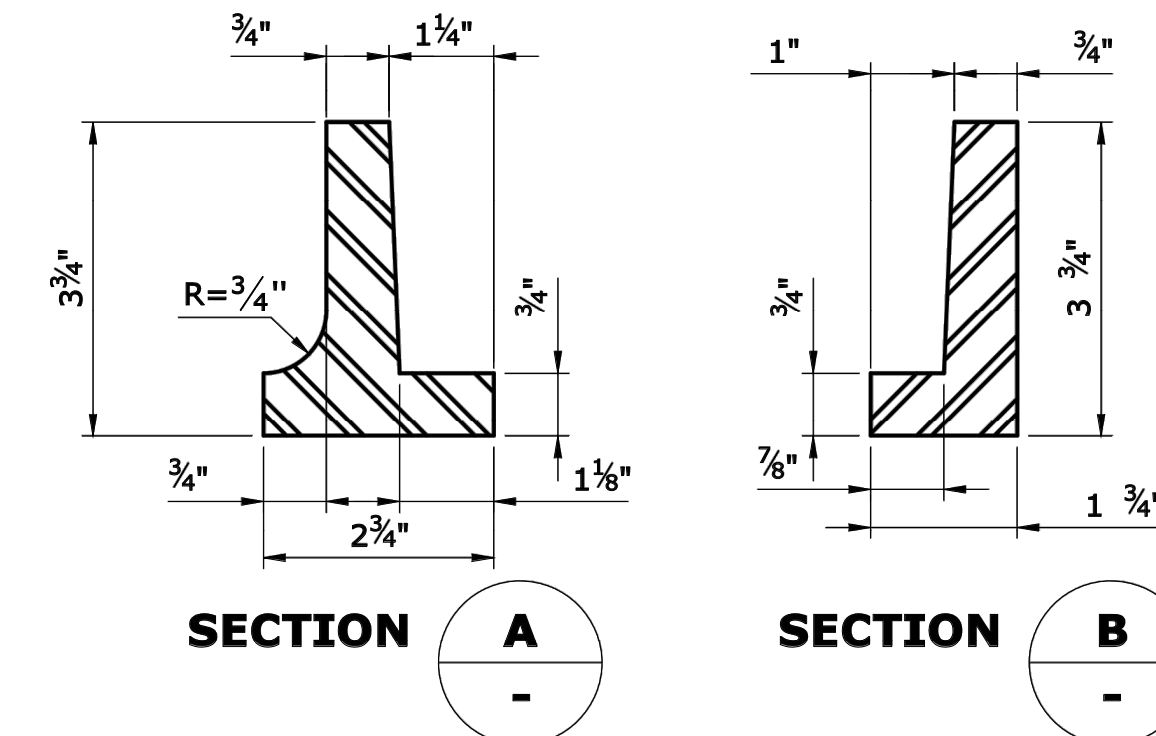
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" AND "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR ON HEAVY DUTY LOCK DOWN TOPS AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC IS NOT ALLOWED OR AS DIRECTED BY THE ENGINEER.
4. DO NOT GALVANIZE CAST IRON FRAMES.
5. DIMENSIONAL TOLERANCES SHALL BE  $\pm \frac{1}{16}$  INCH.
6. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.



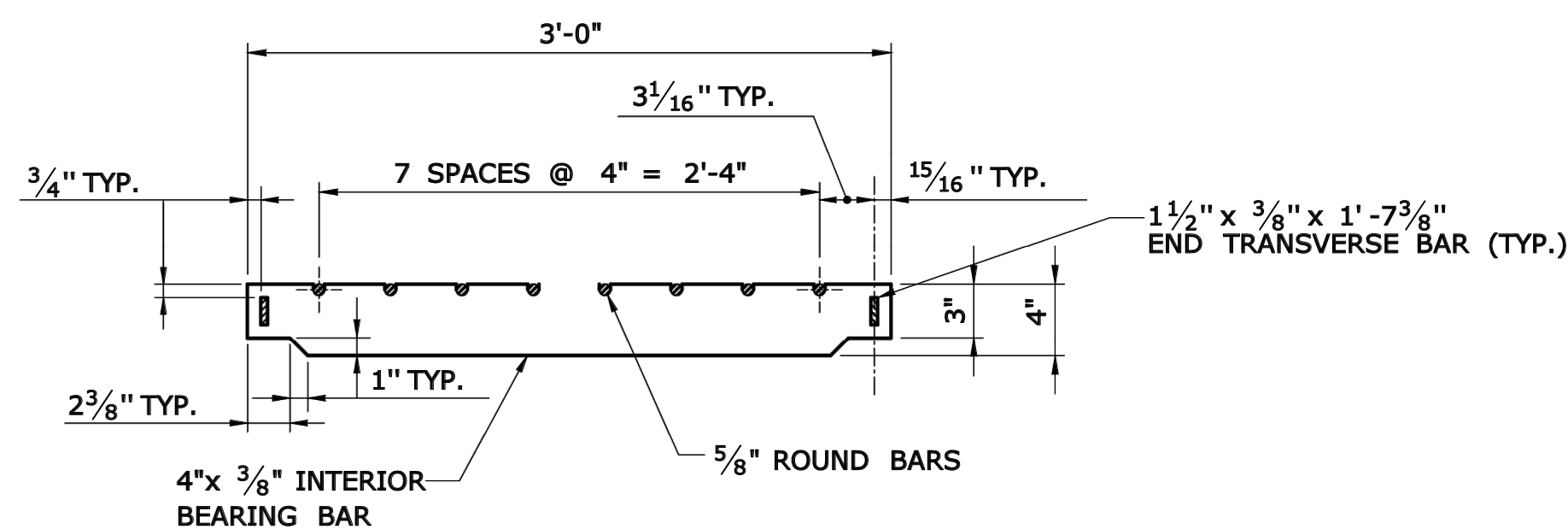
**PLAN**



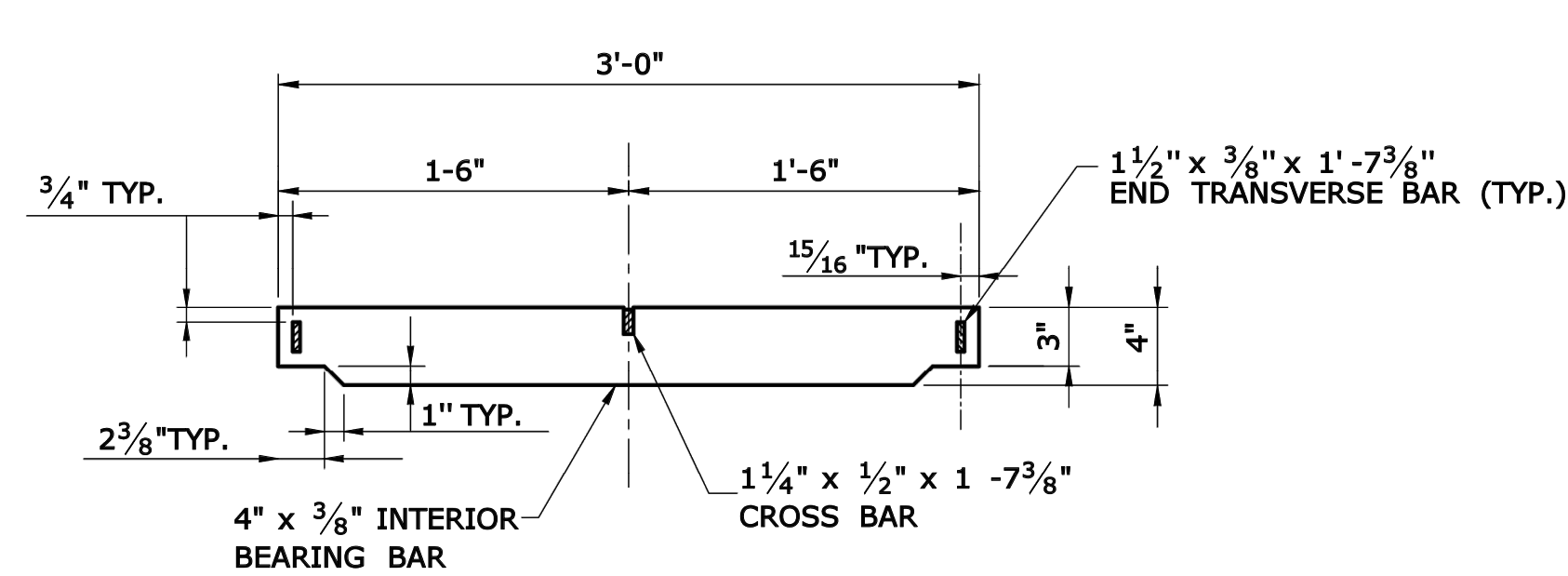
**PLAN**



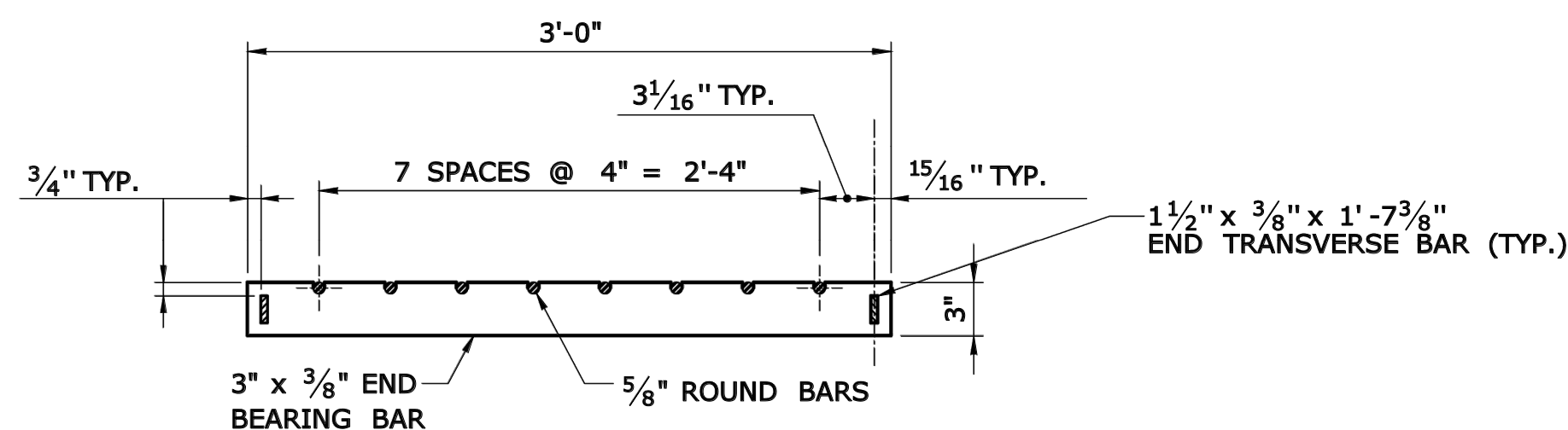
**CAST IRON FRAME ALTERNATE**



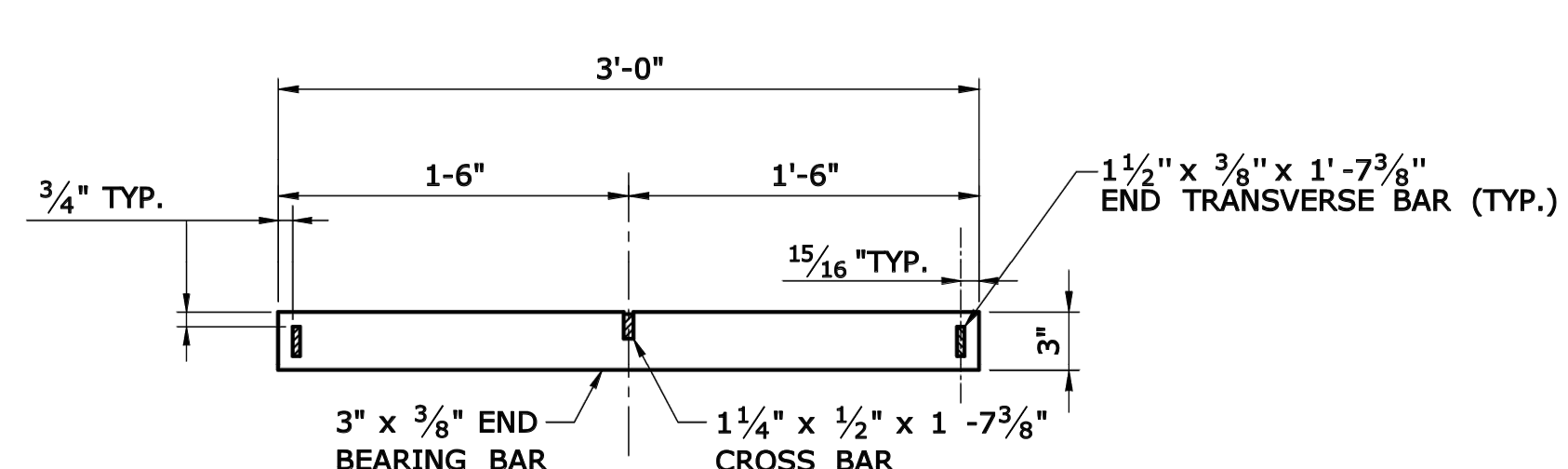
**ELEVATION- INTERIOR BEARING BAR**



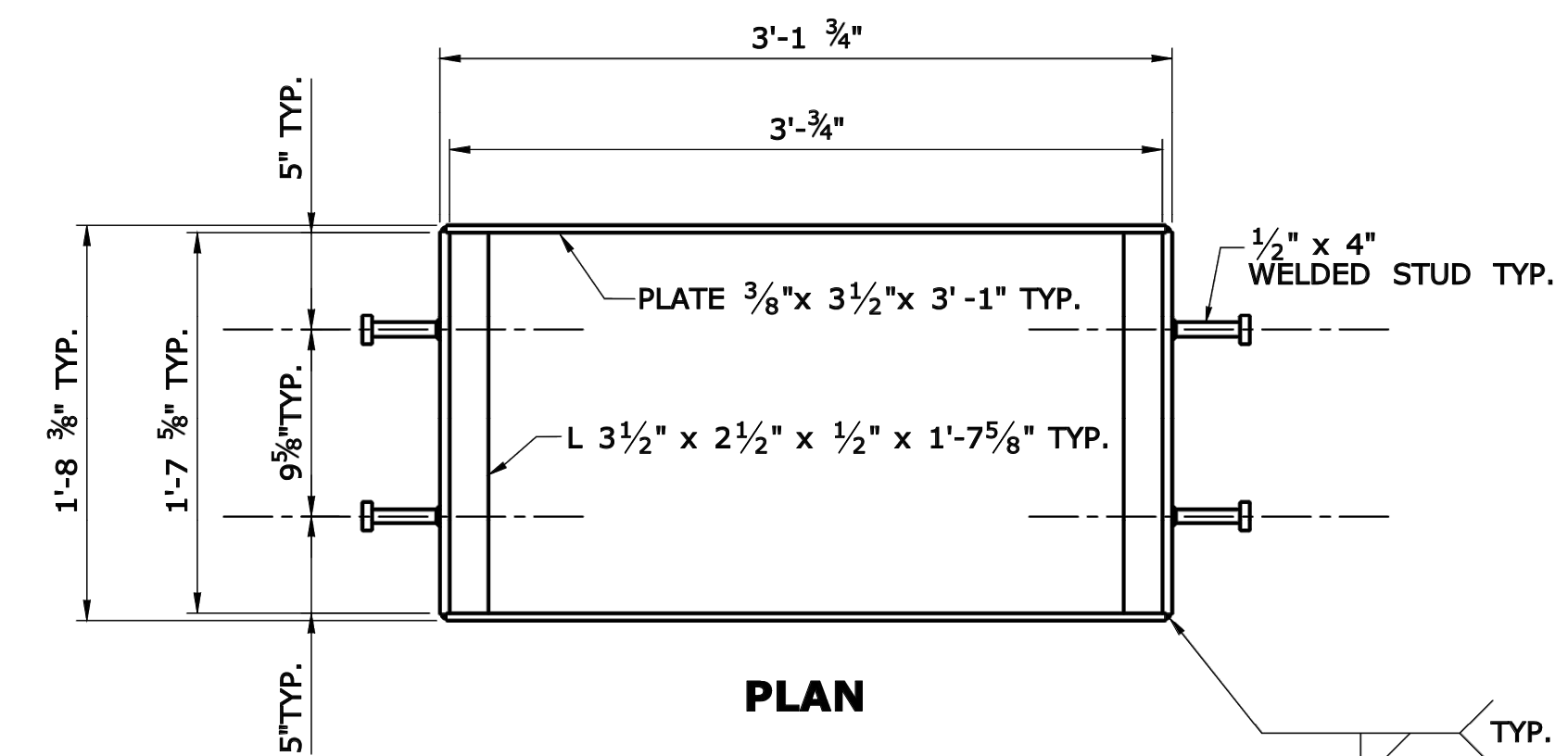
**ELEVATION- INTERIOR BEARING BAR**



**ELEVATION- END BEARING BAR  
 CATCH BASIN GRATE TYPE A**



**ELEVATION- END BEARING BAR  
 CATCH BASIN GRATE TYPE B**



**WELDED STUD ANCHOR DETAILS  
 STEEL FRAME**

NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
 LAND DEVELOPMENT | ENGINEERING DESIGN | CONSTRUCTION SERVICES  
 DBE | DAS | MBE | CMASDC CERTIFIED  
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 FAX: (860) 886-7161

ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETSCAPE PHASE III  
 OLD ROUTE 7 & LAUREL HILL ROAD**

BROOKFIELD, CONNECTICUT

DESIGNED: Y.L.  
 DRAFTED: C.S.  
 CHECKED: Y.L.  
 APPROVED: P.A.R.  
 SCALE: AS NOTED  
 FC PROJECT NO.: 2019-0106  
 DATE: 3/26/2020  
 CAD: HW\_MST\_2019\_0106\_MDS

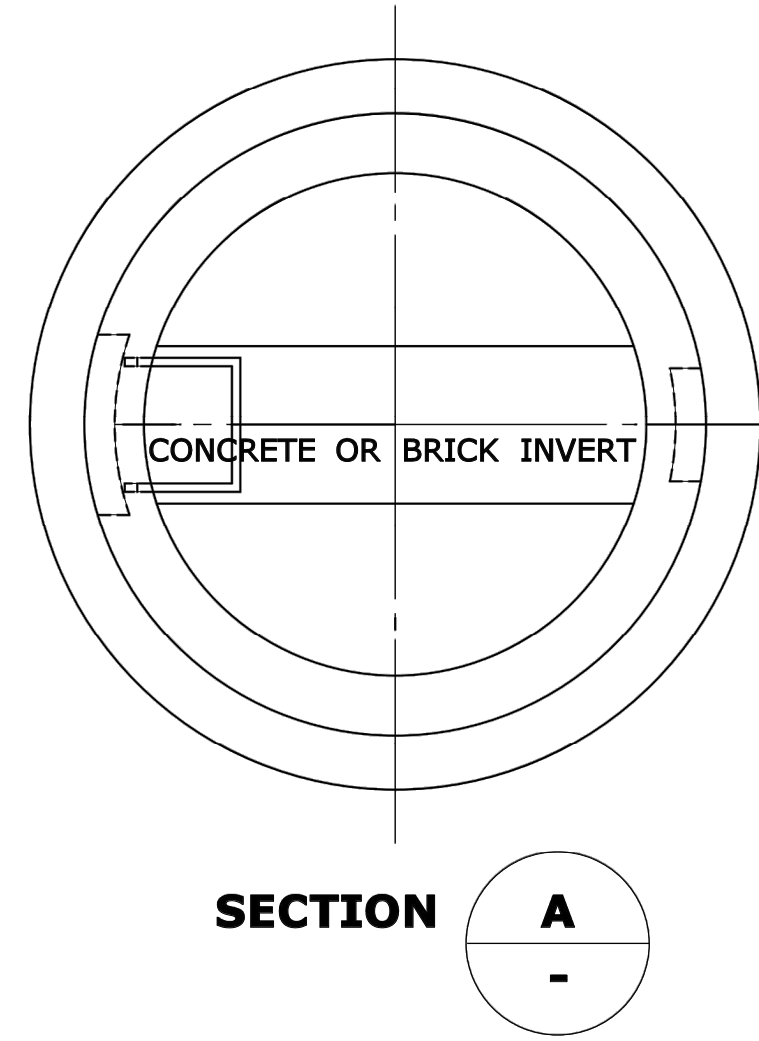
TITLE:  
 CATCH BASIN FRAMES  
 AND GRATES

DWG NO.:  
 MDS-7

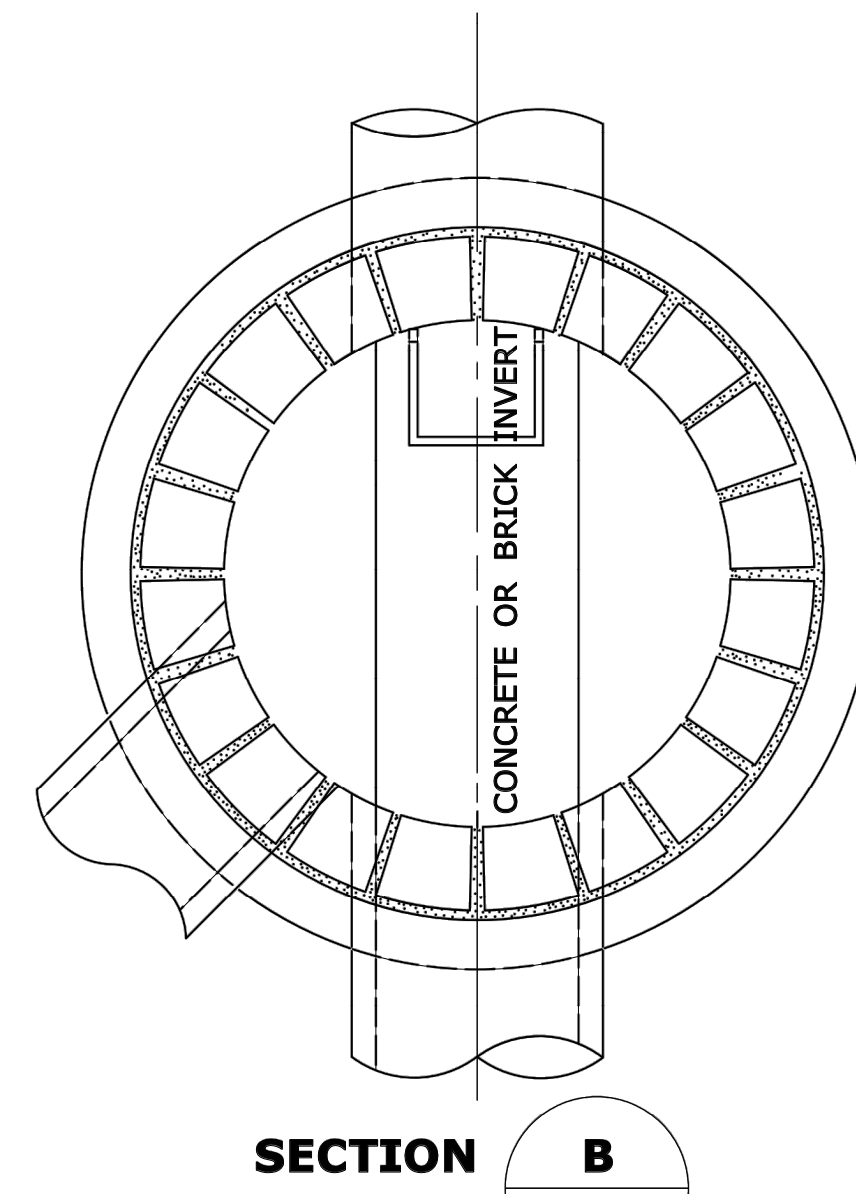
SHEET NO.:

FREEMAN COMPANIES, LLC . R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MST\_2019\_0106\_MDS 3-11.dwg Jun 26, 2021-4:24pm Plotted By: cauprment

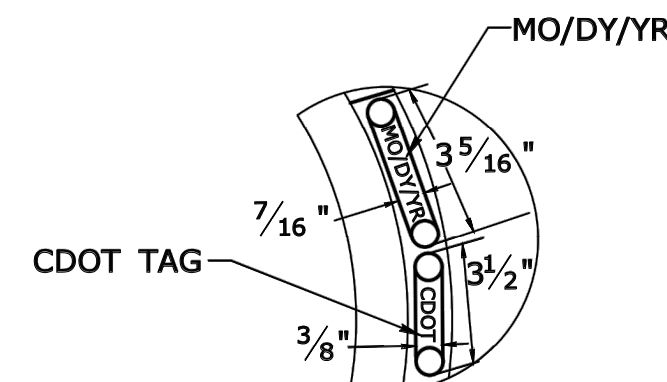
FREEMAN COMPANIES, LLC . R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MST\_2019\_0106\_MDS\_3-11.dwg Jan 26, 2021-4:24pm Plotted By: cauprment



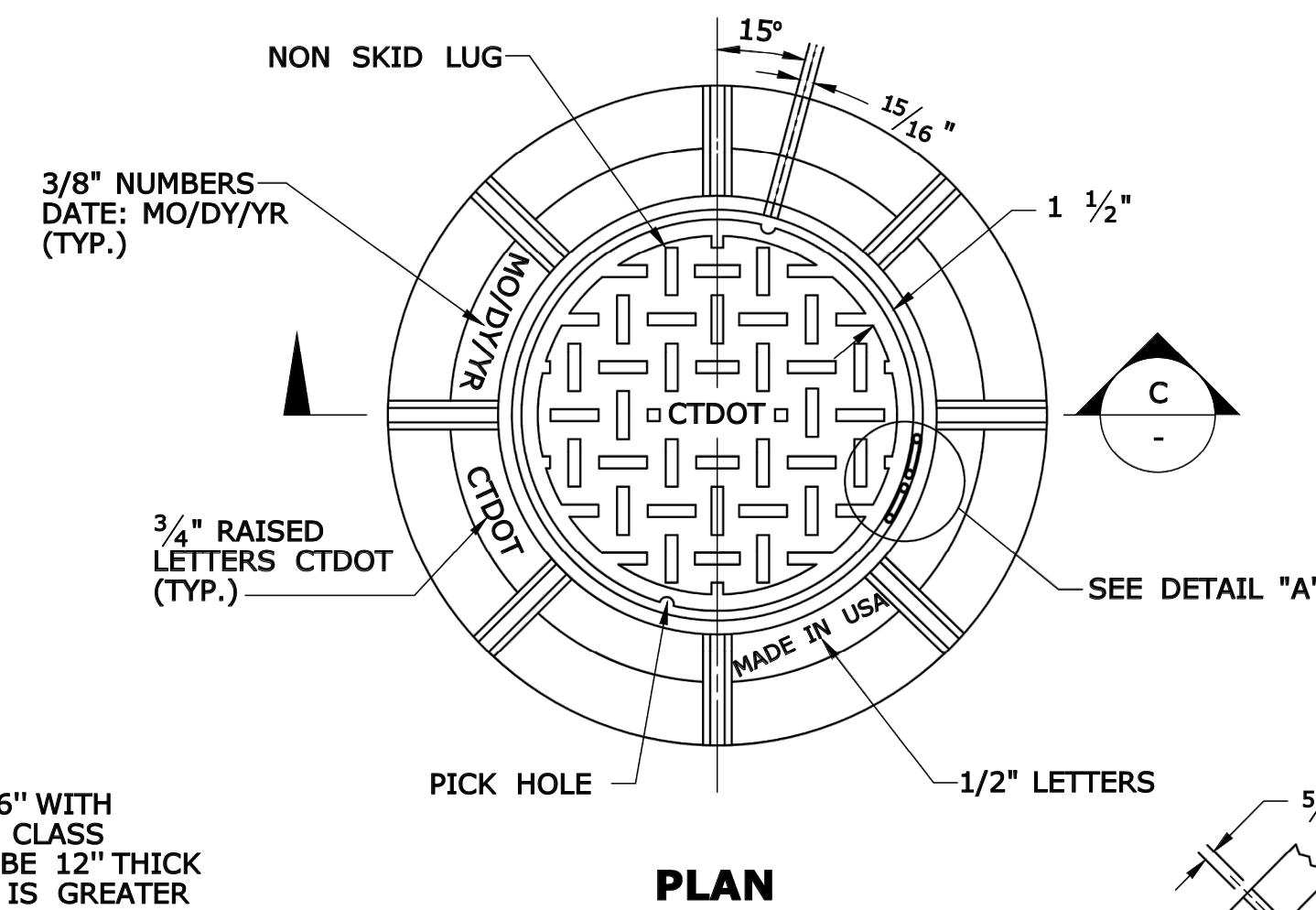
**SECTION A**



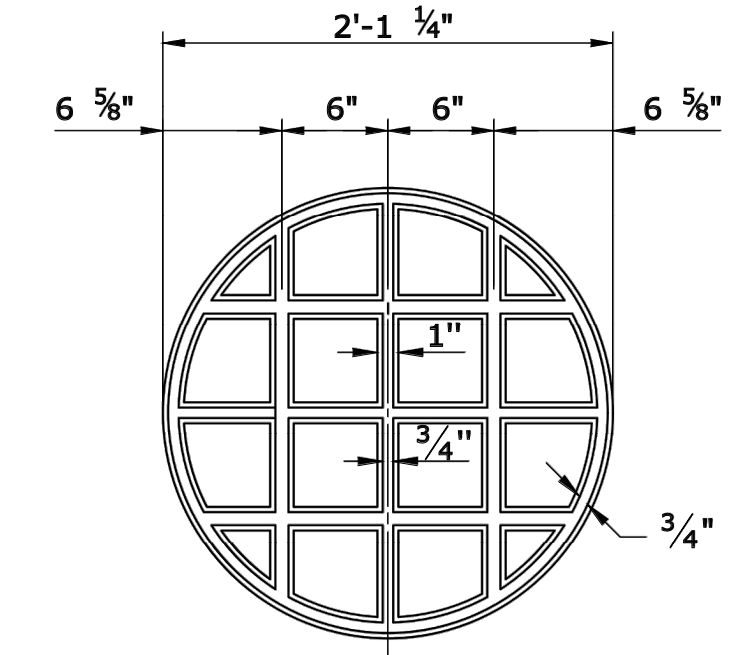
**SECTION B**



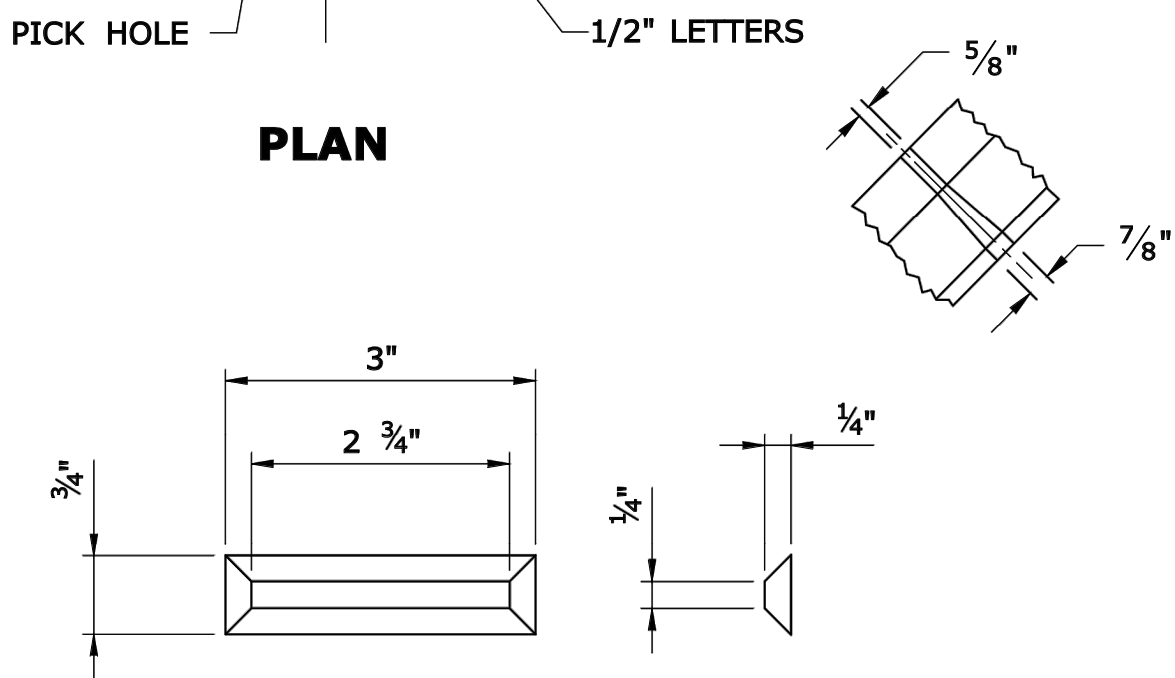
**DETAIL "A"**



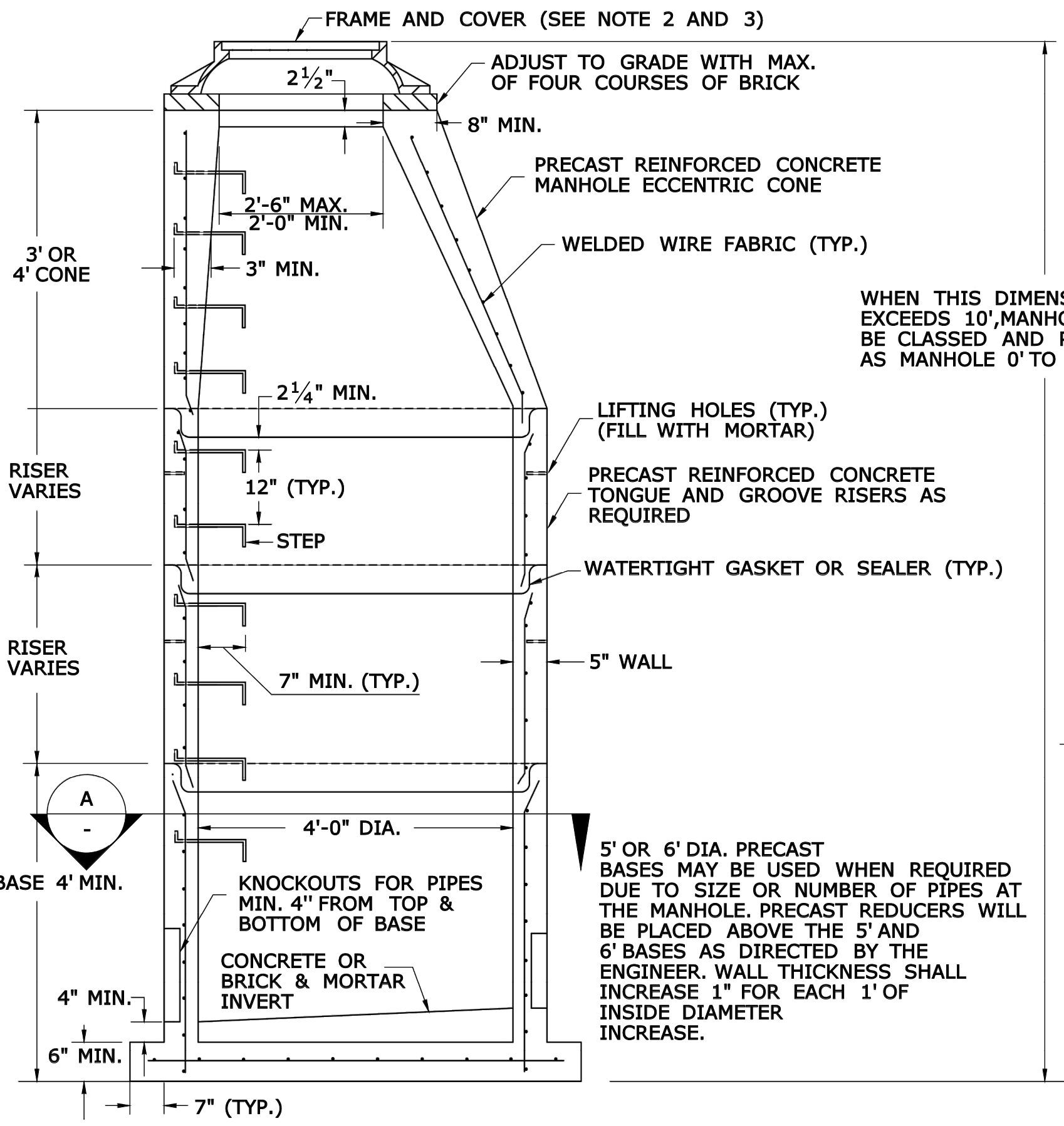
**PLAN**



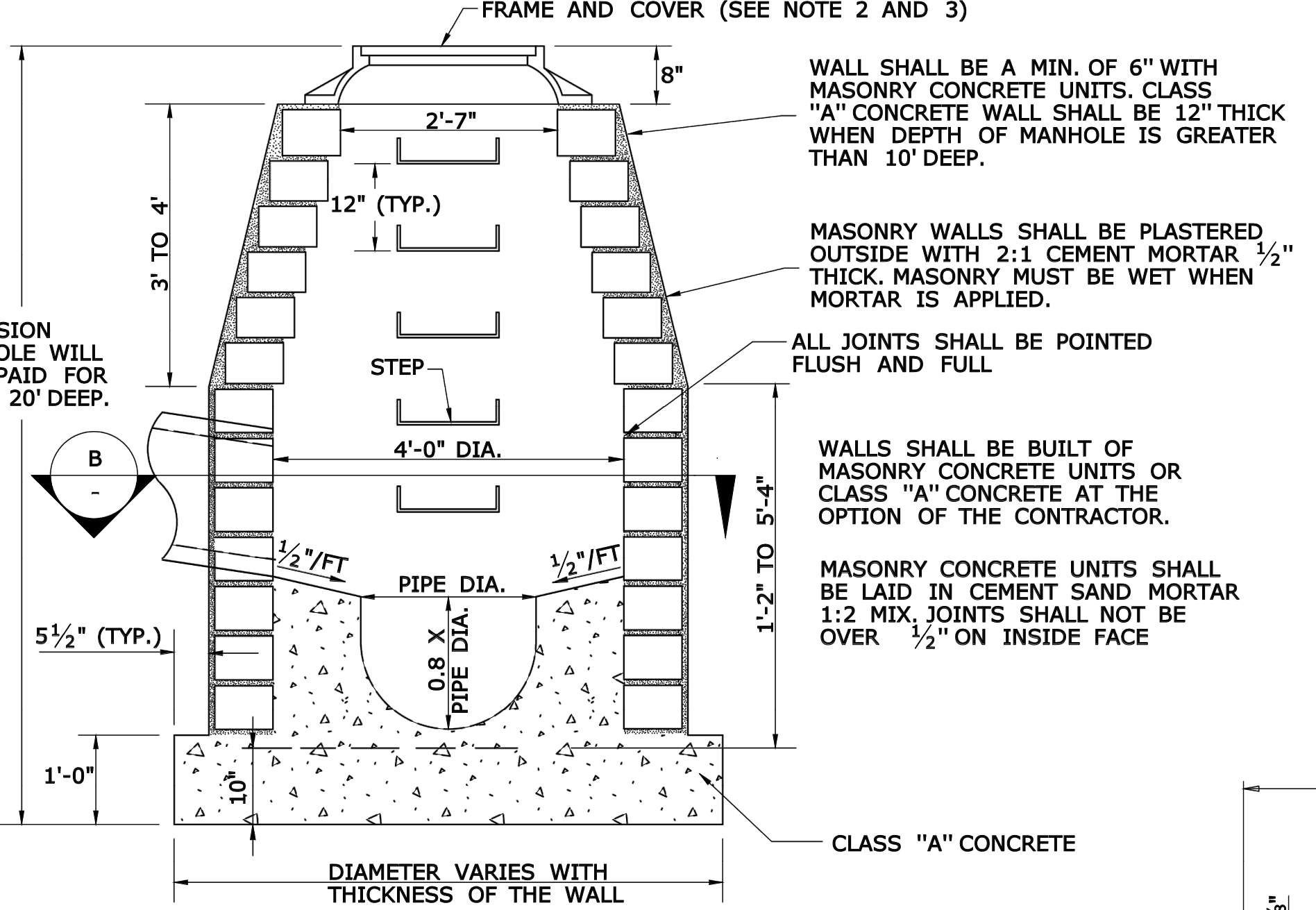
**UNDERSIDE OF COVER**



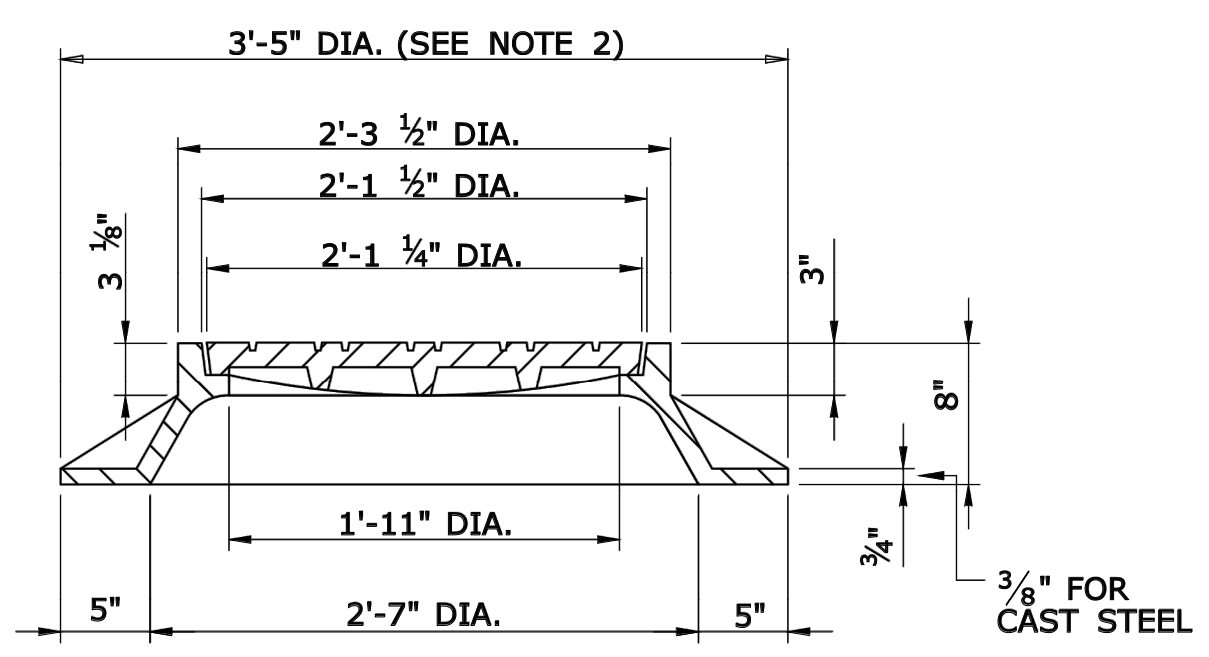
**NON SKID LUG**



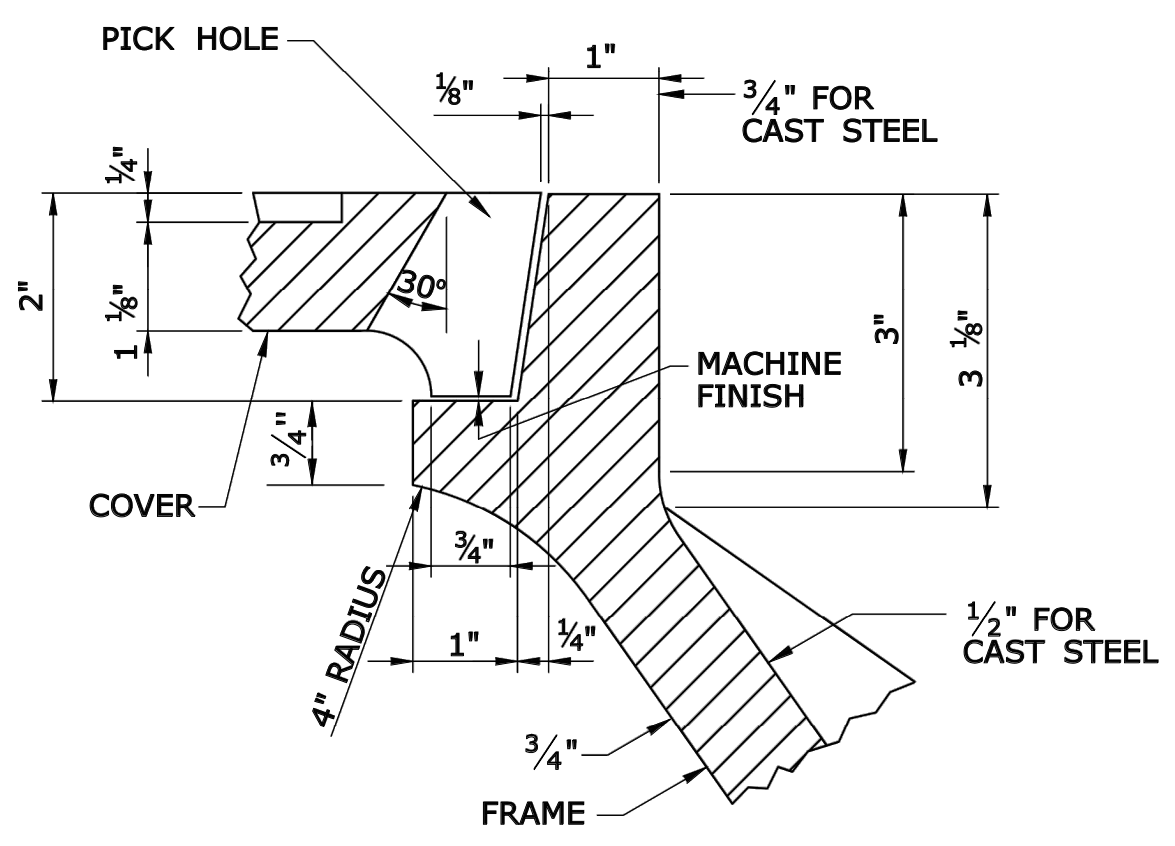
**ELEVATION MANHOLE (REINFORCED PRECAST CONCRETE UNIT)**



**ELEVATION MANHOLE (MASONRY CONCRETE UNIT OR CLASS "A" CONCRETE)**



**SECTION C**



**FRAME SEAT**

**FRAME AND COVER**

- GENERAL NOTES:**
1. CHANNELS MAY BE SHAPED IN CONCRETE BASE OF MANHOLE OR FORMED USING BRICK OR MASONRY.
  2. A FRAME DIAMETER OF 3'-3" WITH 4" FLANGE MUST BE USED WHEN THE TOP DIAMETER OF THE PRECAST CONE IS LESS THAN 3'-6". ALL OTHER FRAME DIMENSIONS SHALL REMAIN THE SAME.
  3. CAST IRON COVER OR STEEL COVER SHALL WEIGH NO LESS THAN 134 LBS.
  4. ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.

NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
 LAND DEVELOPMENT | ENGINEERING DESIGN | CONSTRUCTION SERVICES  
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ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETScape PHASE III**  
**OLD ROUTE 7 & LAUREL HILL ROAD**

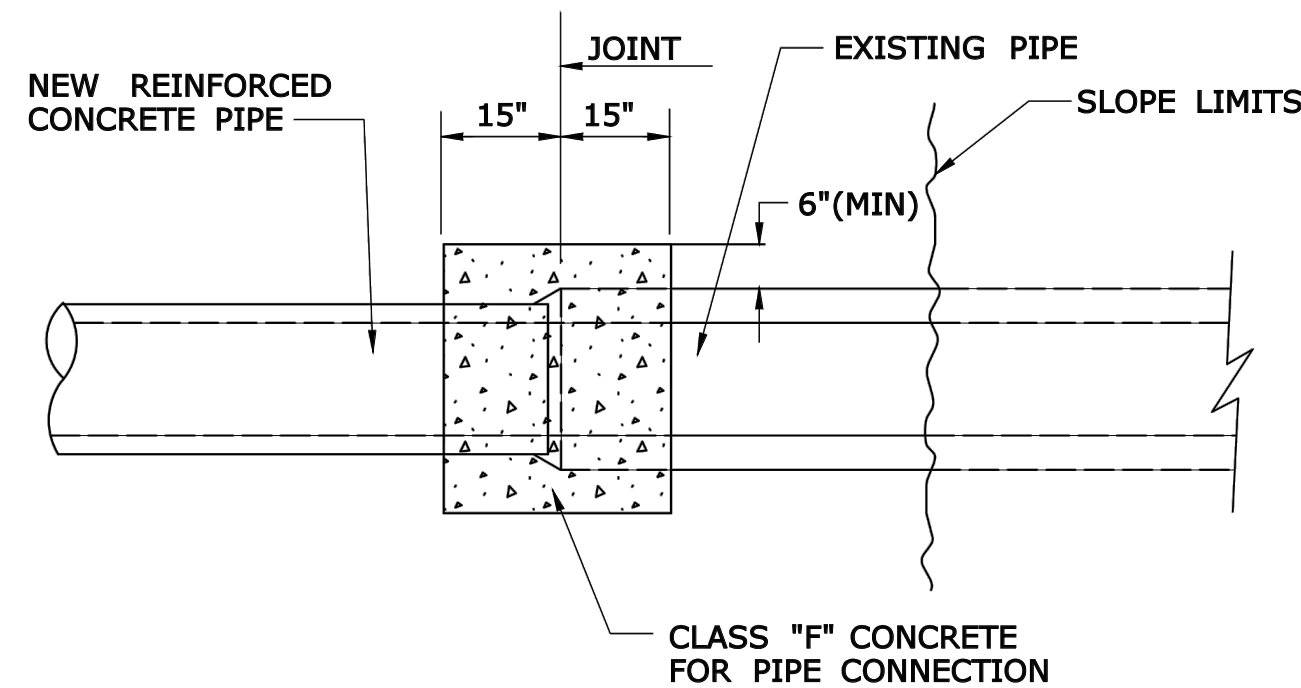
BROOKFIELD, CONNECTICUT

DESIGNED: Y.L.  
 DRAFTED: C.S.  
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 APPROVED: P.A.R.  
 SCALE: AS NOTED  
 FC PROJECT NO.: 2019-0106  
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 CAD: HW\_MST\_2019\_0106\_MDS 9-11

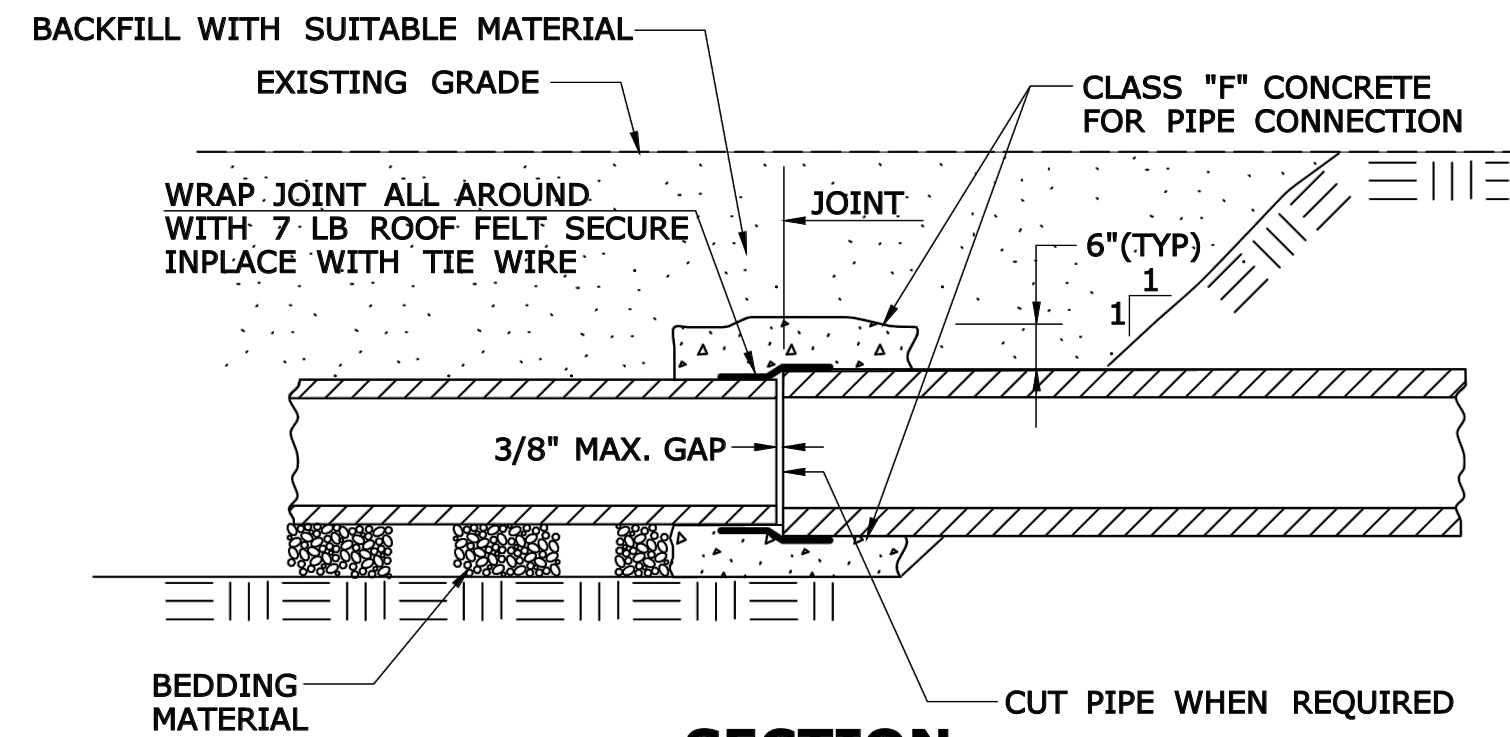
TITLE: MANHOLE AND COVER

DWG NO.: MDS-8

SHEET NO.:



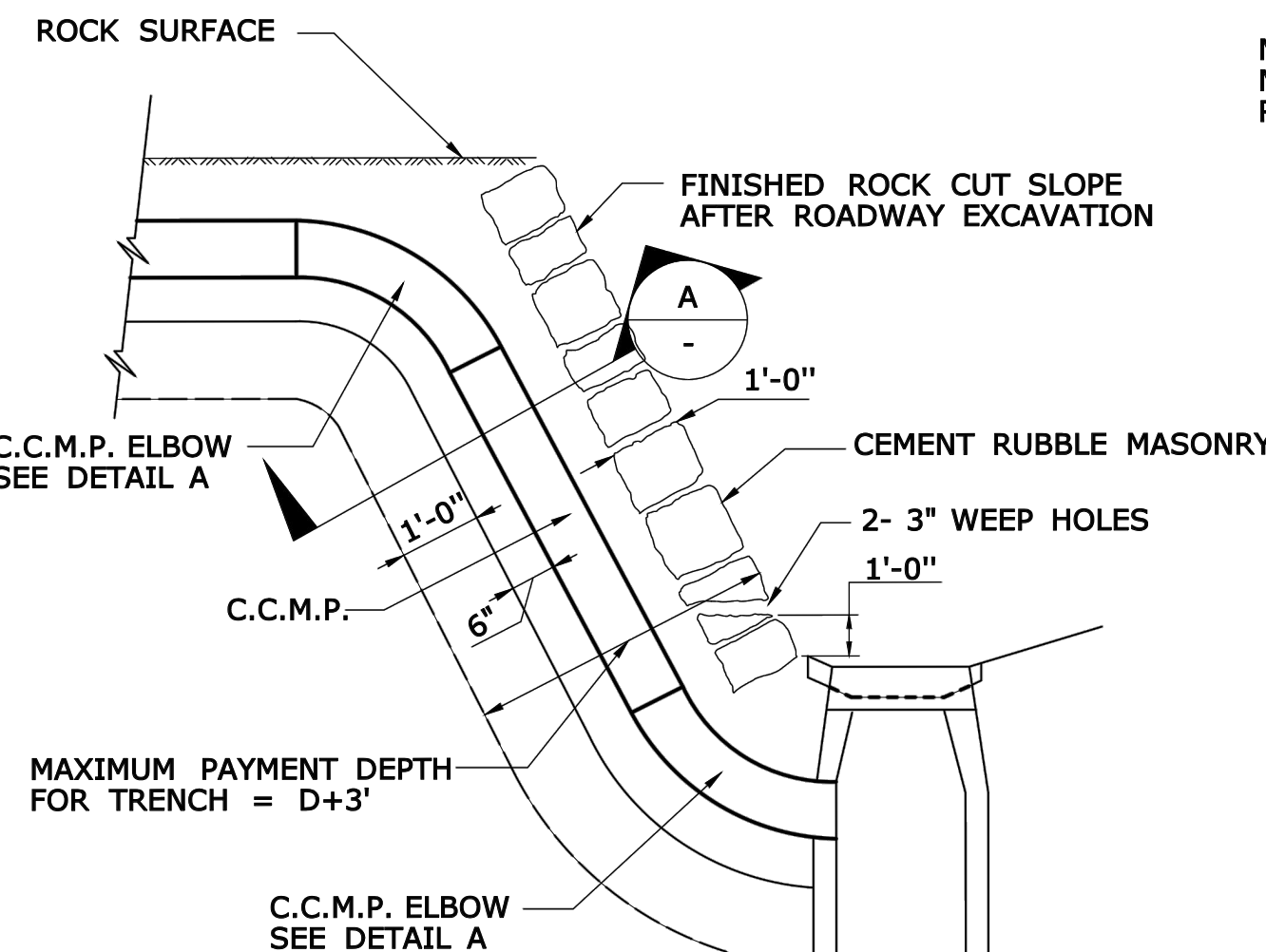
**PLAN**



**SECTION  
CONCRETE PIPE CONNECTION**

**NOTES:**

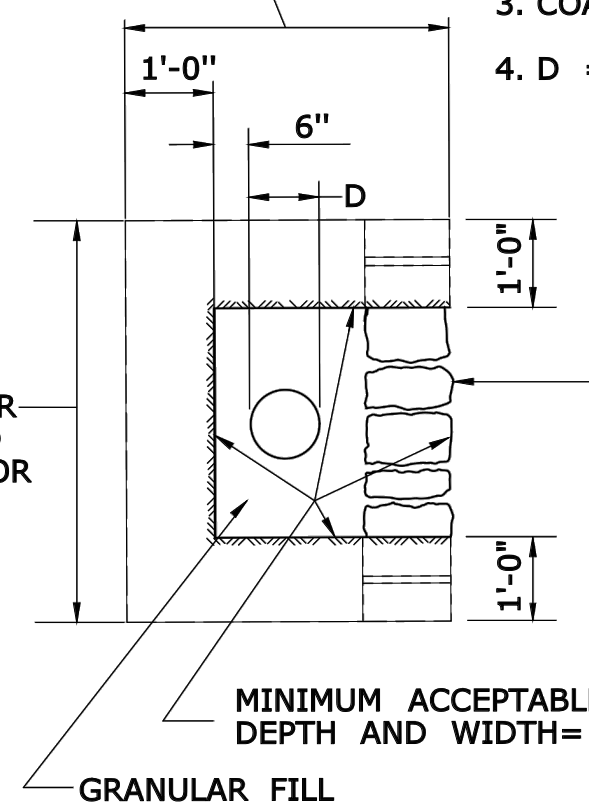
- "CONCRETE PIPE CONNECTION" IS INTENDED FOR USE WHERE A REINFORCED CONCRETE PIPE REPAIR OR MODIFICATION IS NEEDED SOMEWHERE WITHIN A PIPE RUN WHERE A BELL/SPIGOT JOINT CANNOT BE ACHIEVED.
- MAINTAIN INTERIOR ALIGNMENT OF PIPE AT JOINTS UNTIL CONCRETE IS PROPERLY CURED.
- BACKFILL OF PIPE REPAIR WITH SUITABLE MATERIAL MAY NOT TAKE PLACE UNTIL CONCRETE IS PROPERLY CURED.
- CONTRACTOR SHALL MAINTAIN LINE AND GRADE OF PIPE REPAIR OR MODIFICATION BY METHODS APPROVED BY THE ENGINEER.
- HOLES OR GAPS AT JOINT LARGER THAN 3/8" SHALL BE FILLED OR WRAPPED TO PREVENT CONCRETE FROM ENTERING PIPE.



**TYPICAL INSTALLATION OF C.C.M.P. IN ROCK SLOPE**

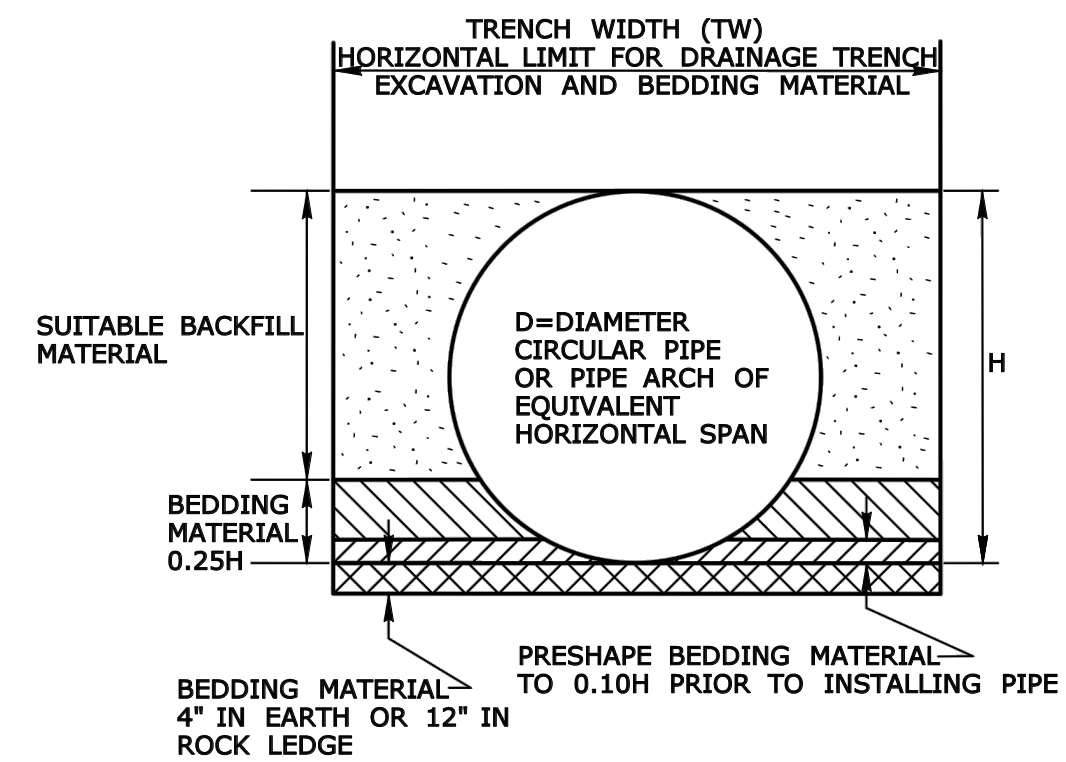
MAXIMUM DEPTH FOR TRENCH = D+3'.  
MAXIMUM GRANULAR FILL = D+2' FOR ROCK ACTUALLY REMOVED.

MAXIMUM WIDTH = D+4' FOR TRENCH, GRANULAR FILL, AND CEMENT RUBBLE MASONRY FOR ROCK ACTUALLY REMOVED.

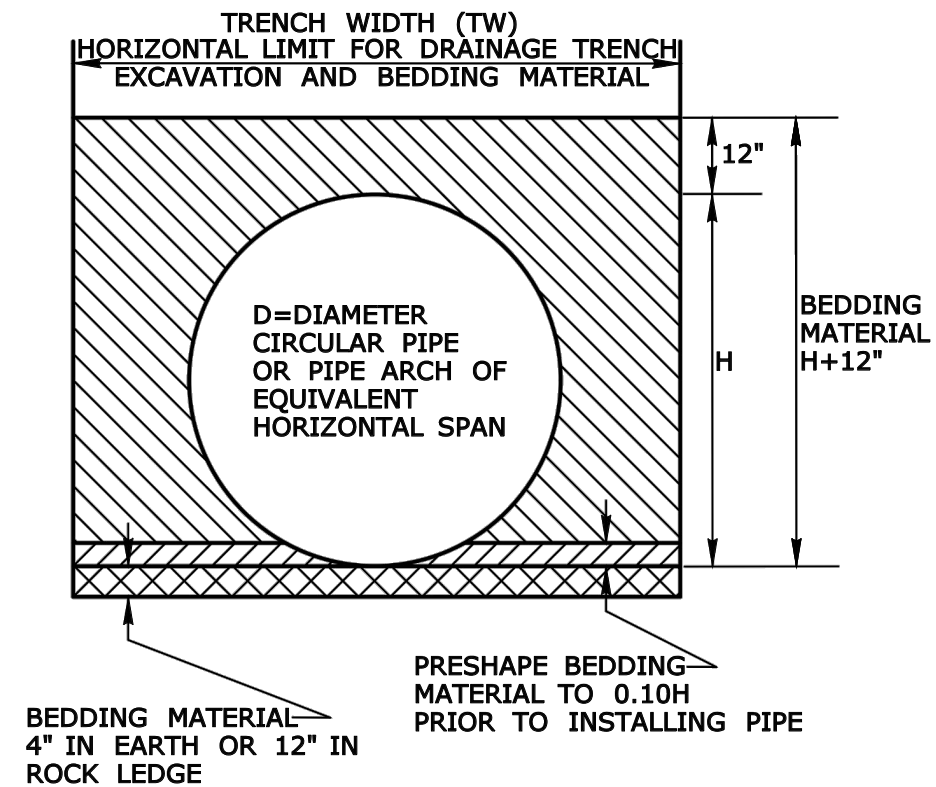


**SECTION A**

MINIMUM ACCEPTABLE DIMENSIONS FOR DEPTH AND WIDTH = D+2' (EACH)



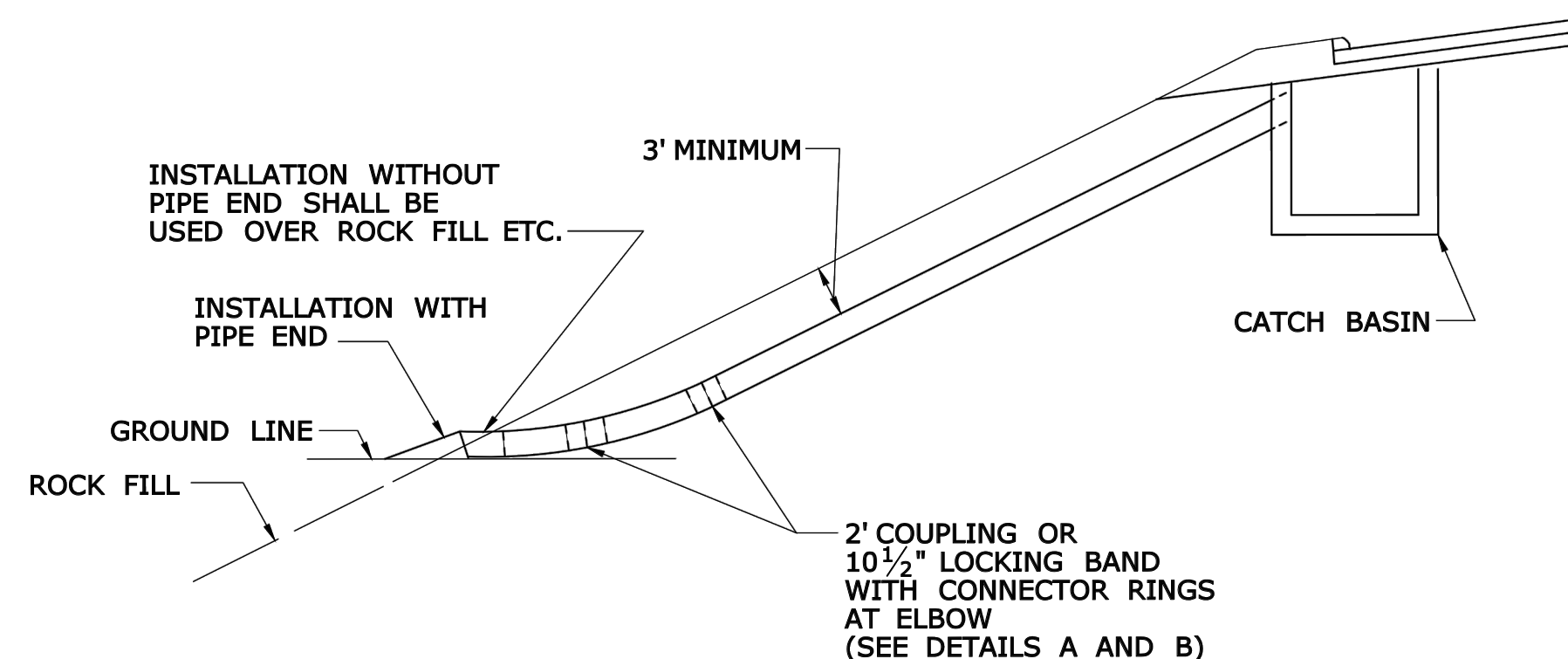
**PIPE TRENCH FOR PIPES LESS THAN 48"**



**PIPE TRENCH FOR PIPES GREATER THAN OR EQUAL TO 48"**

**TRENCH WIDTH (TW) CHART**

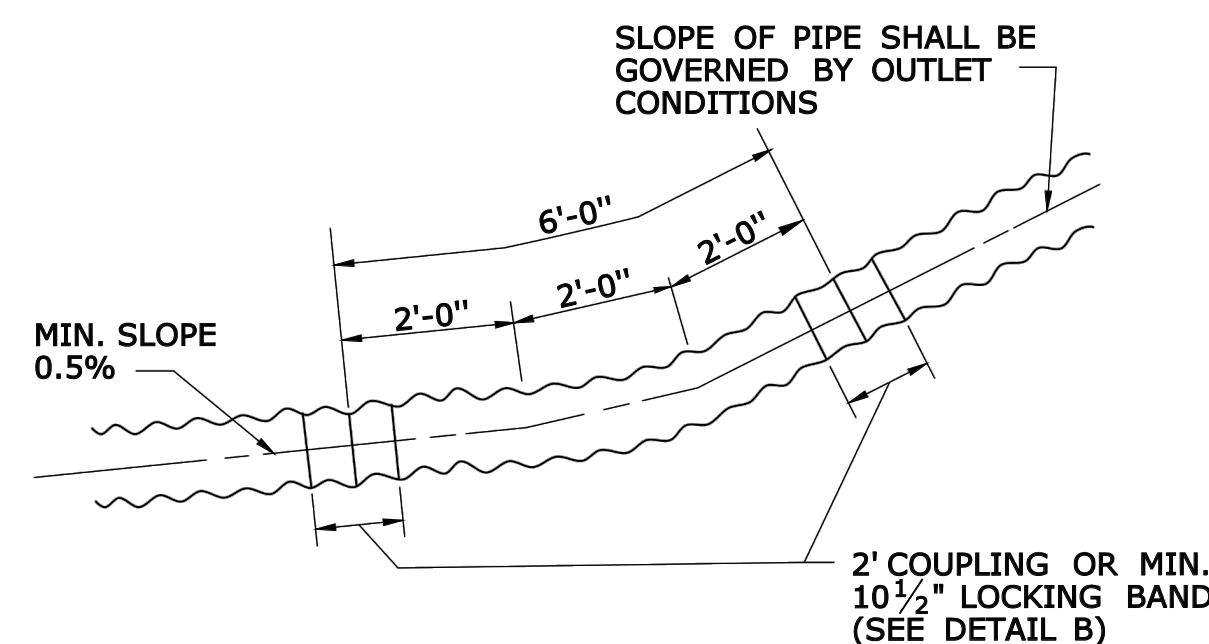
PIPE, PIPE-ARCH, OR DRAINAGE STRUCTURE	TRENCH WIDTH
PIPE OR PIPE-ARCH WITH NOMINAL INSIDE HORIZONTAL SPAN LESS THAN 30"	2' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
PIPE OR PIPE-ARCH WITH NOMINAL INSIDE HORIZONTAL SPAN GREATER THAN OR EQUAL TO 30"	3' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
PIPE OR PIPE-ARCH FABRICATED FROM STRUCTURAL PLATES	4' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
DRAINAGE STRUCTURES	2' BEYOND ALL EXTERIOR OR FOUNDATION WALLS



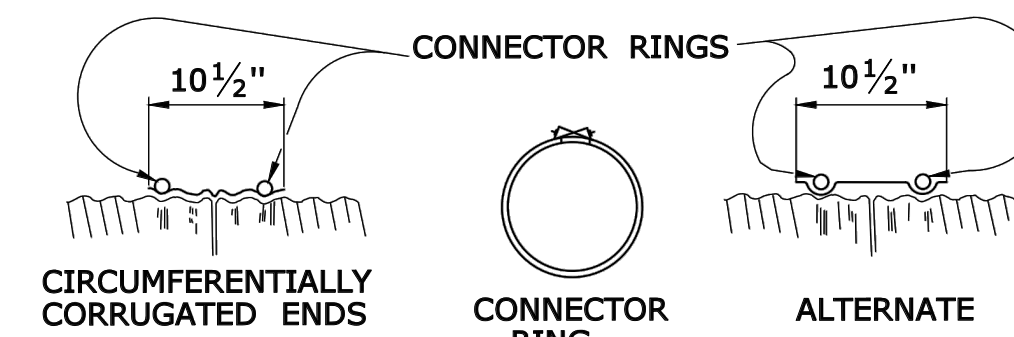
**TYPICAL INSTALLATION OF C.C.M.P. ELBOW IN FILL SLOPE**

**TABLE C  
CONNECTOR RINGS**

PIPE DIAMETER	LENGTH OF RING
12"	52"
15"	61"
18"	71"
21"	80"
24"	90"
30"	108"
36"	128"
42"	147"
48"	166"



**DETAIL A  
C.C.M.P. ELBOW AND COUPLING**



**DETAIL B  
ELBOW DIMENSIONS**

RODS: 7/16" DIAMETER ELECTRO-GALVANIZED WITH 6" LENGTH OF 1/2" ROLLED THREADS EACH END, FURNISHED CURVED, TO FIT PIPE. SEE TABLE C

LUGS: DOUBLE TAKE UP, CAST IRON, ELECTRO-GALVANIZED.

NOTE: THE COUPLER FASTENING DEVICE SHALL NOT INTERFERE WITH INSTALLATION OF CONNECTOR RINGS.

FREEMAN COMPANIES, LLC . R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MST\_2019\_0106\_MDS\_3-11.dwg Jun 26, 2021-4:24pm Plotted By: caurprment



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**BROOKFIELD STREETScape PHASE III  
OLD ROUTE 7 & LAUREL HILL ROAD**


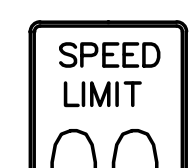


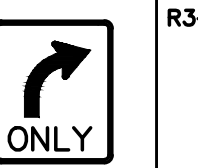

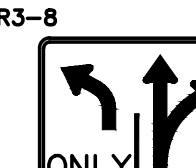



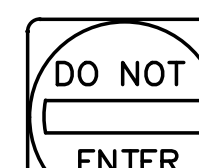
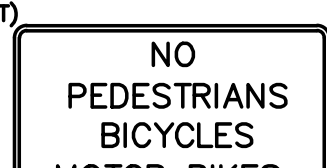
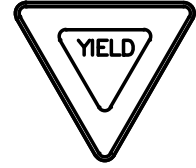
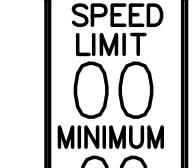



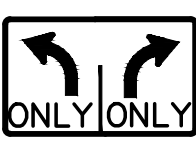


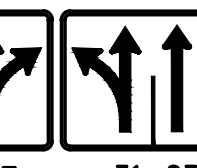















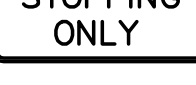



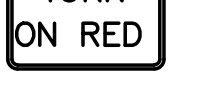



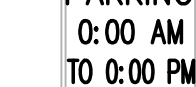





BROOKFIELD, CONNECTICUT

DESIGNED: Y.L.  
DRAFTED: C.S.  
CHECKED: Y.L.  
APPROVED: P.A.R.  
SCALE: AS NOTED  
FC PROJECT NO.: 2019-0106  
DATE: 3/26/2020  
CAD: HW\_MST\_2019\_0106\_MDS

TITLE: C.C.M. PIPE INSTALLATION & PIPE TRENCH

DWG NO.: MDS-9

SHEET NO.:

R1 - SERIES			R2 - SERIES			R3 - SERIES						R4 - SERIES			R5 - SERIES												
<b>R1-1</b>  LEGEND - WHITE BACKGROUND - RED AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .185 18 31-0532 1 .080 .519 30 31-0552 1 .080 .798 36 31-0553 1 .080 .13.3 48 31-0557 2 .100			<b>R2-1</b>  AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .500 24X30 31-5505 1 .080 .750 30X36 31-5504 1 .080 12.00 36X48 31-5506 2 .100 20.00 48X60 31-5507 2 .100			<b>R3-1</b>  LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .400 24X24 31-1604 1 .080 .900 36X36 31-1627 2 .080		<b>R3-5</b>   31-0183 31-0184 AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .750 30X36 1 .080		<b>R3-6</b>  ONLY AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .750 30X36 31-0175 1 .080		<b>R3-8</b>  ONLY ONLY 31-0282 31-0283 AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .750 36X30 2 .080		<b>R3-8b</b>  ONLY ONLY AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. 10.00 48X30 31-0302 2 .100		<b>R4-1</b>  DO NOT PASS AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .500 24X30 31-1502 1 .080			<b>R4-1a</b>  KEEP RIGHT EXCEPT TO PASS AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. 20.00 48X60 31-1574 2 .100			<b>R5-1</b>  LEGEND - WHITE BACKGROUND - WHITE CIRCLE - RED AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .625 30X30 31-1119 1 .080 .900 36X36 31-1120 2 .080 16.00 48X48 31-1121 2 .100			<b>R5-10a(CT)</b>  NO PEDESTRIANS BICYCLES MOTOR BIKES MOTOR SCOOTERS AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .900 36X36 31-1775 2 .100		
<b>R1-2</b>  LEGEND - RED BACKGROUND - WHITE AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .097 18 31-0520 1 .080 .390 36 31-0523 1 .080 .677 48 31-0522 2 .100 10.83 60 31-0528 2 .100			<b>R2-4a</b>  AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. 32 48X96 31-5510 2 .125			<b>R3-2</b>  LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .400 24X24 31-1603 1 .080 .900 36X36 31-1629 2 .080		<b>R3-6</b>   31-0157 31-0158 AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .750 30X36 1 .080		<b>R3-8</b>  ONLY ONLY AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. 7.50 36X30 31-0290 1 .080		<b>R3-8</b>  ONLY ONLY 31-0295 31-0219 AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .750 36X30 2 .080		<b>R3-8b</b>   31-0307 31-0372 AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. 10.00 48X30 2 .100		<b>R4-3</b>  SLOWER TRAFFIC KEEP RIGHT AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .500 24X30 31-1562 1 .080 20.00 48X60 31-1564 2 .100			<b>R5-1a</b>  LEGEND - WHITE BACKGROUND - RED AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .600 36X24 31-1122 2 .080 .875 42X30 31-1123 2 .100			<b>R5-11</b>  AUTHORIZED VEHICLES ONLY AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .500 30X24 31-1790 1 .080 20.00 48X36 31-1792 2 .100					
<b>R1-3P</b>  LEGEND - WHITE BACKGROUND - RED AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .075 18X6 31-0508 1 .080			<b>R3-3</b>  AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .400 24X24 31-1648 1 .080 .900 36X36 31-1647 2 .080			<b>R3-7</b>  LEFT LANE MUST TURN LEFT AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .625 30X30 31-0117 1 .080 .900 36X36 31-0120 2 .080		<b>R3-8</b>   31-0222 31-0223 AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .625 30X30 1 .080		<b>R3-8</b>  ONLY AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .875 42X30 31-0279 2 .100		<b>R3-8b</b>  ONLY AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .875 42X30 31-0334 2 .100		<b>R4-7</b>  AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .500 24X30 31-1526 1 .080 12.00 36X48 31-1536 2 .100 20.00 48X60 31-1546 2 .100			<b>R5-10a(CT)</b>  LEGEND - BLACK TOP SECTION BACKGROUND - YELLOW BOTTOM SECTION BACKGROUND - WHITE AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. 32.50 60X78 31-1719 2 .125			<b>R5-6</b>  AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .400 24X24 1 .080							
<b>R6-1</b>  AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .300 36X12 31-1188 1 .080 .675 54X18 31-1189 2 .100			<b>R7-1</b>  (R) (L) LEGEND - RED BACKGROUND - WHITE AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. 1.50 12X18 31-0630 1 .080			<b>R8-7</b>  EMERGENCY STOPPING ONLY AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. 12.00 48X36 31-0670 2 .100			<b>R9-3</b>  LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .225 18X18 31-1705 1 .080 .400 24X24 31-1769 1 .080 .625 30X30 31-1770 1 .080			<b>R10-6</b>   31-0801 31-0802 AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .600 24X36 1 .080			<b>R10-11b</b>  NO TURN ON RED AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .900 36X36 31-0816 2 .080			<b>R10-11a(CT)</b>  RIGHT TURN ON RED FROM RIGHT LANE ONLY AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .750 30X36 31-0847 1 .080			<b>R11-1</b>  KEEP OFF MEDIAN AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .500 24X30 31-1915 1 .080 20.00 48X60 31-1918 2 .100			<b>RETROREFLECTIVE STRIP</b> LEGEND - N/A BACKGROUND - RED AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .100 4X48 31-5003 1 .080 .200 4X72 31-5004 1 .080			
<b>R6-1</b>  AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .300 36X12 31-1177 1 .080 .675 54X18 31-1178 2 .100			<b>R7-2a</b>  VARIABLE TIMES (R) (L) LEGEND - RED BACKGROUND - WHITE AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. 1.50 12X18 31-0603 1 .080			<b>R9-3a</b>  NO PEDESTRIAN CROSSING AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .150 12X18 31-1702 1 .080			<b>R10-7</b>  DO NOT BLOCK INTERSECTION AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .500 24X30 31-0806 1 .080			<b>R10-10L</b>  LEFT TURN SIGNAL AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .750 30X36 31-0852 1 .080			<b>R10-11a</b>  NO TURN ON RED AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .750 30X36 31-0830 1 .080 12.00 36X48 31-0819 2 .100			<b>R10-25</b>  PUSH BUTTON TO TURN ON WARNING LIGHTS AREA SIZE CONN. POSTS ALUM. (SQ. FT)(INCHES) D.O.T. # THK. .075 9X12 31-0846 1 .080			<b>NOTES:</b> 1. THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R- SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z". 2. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERRECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS. 3. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS." 4. POSTS SHALL BE 4 LBS./FT. 5. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED. 6. FOR OVERHEAD MOUNTED SIGNS, SEE STANDARD SHEET TR-1114_01 - "BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL." <b>COLORS:</b> BACKGROUND - WHITE - EXCEPT AS NOTED. LEGEND - BLACK - EXCEPT AS NOTED. ALL SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.						

NO. DATE DESCRIPTION REVISIONS

**FREEMAN COMPANIES**  

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BROOKFIELD, CONNECTICUT




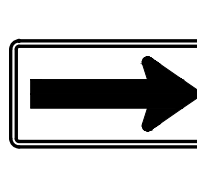
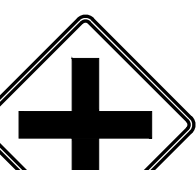
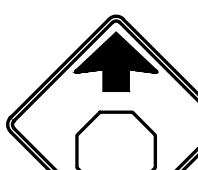









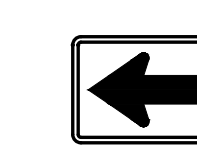

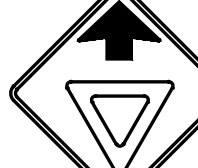
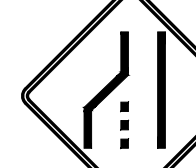
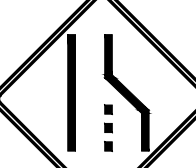


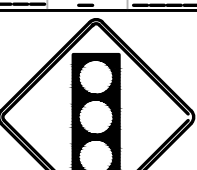






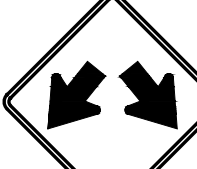
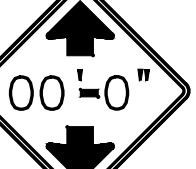

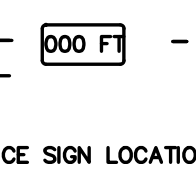
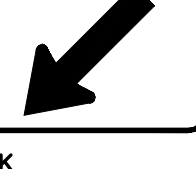

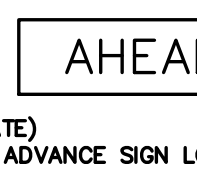





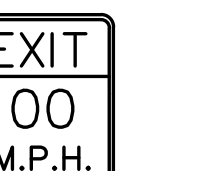
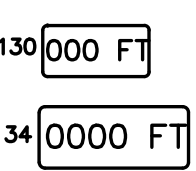
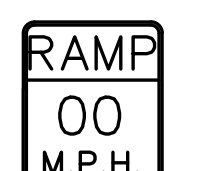
DESIGNED: Y.L.  
 DRAFTED: C.S.  
 CHECKED: Y.L.  
 APPROVED: P.A.R.  
 SCALE: AS NOTED  
 FC PROJECT NO.: 2019-0106  
 DATE: 3/26/2020  
 CAD/HW\_MST\_2019\_0106\_MDS

TITLE: SIGN FACE SHEET  
 ALUMINUM X  
 R-SERIES TYPICAL SIGN  
 DETAILS

DWG NO.: MDS-10  
 SHEET NO.:

9-11

FREEMAN COMPANIES, LLC - R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\WV\_MST\_2019\_0106\_MDS\_3-1.dwg Jan 26, 2021 - 4:24pm Plotted By: caurprant

S - SERIES	W1 - SERIES				W2 - SERIES				W3 - SERIES				W4 - SERIES				W5 - SERIES				W6 - SERIES				W7 - SERIES				W8 - SERIES																			
 S1-1 LEGEND - BLACK BACKGROUND - FLUORESCENT YELLOW GREEN AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.75   36   41-2112   1   .080 12.00   48   41-2113   2   .100	 W1-1L AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-4008   1   .080 9.00   36   41-4031   1   .080				 W1-1R AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-4005   1   .080 9.00   36   41-4160   1   .080				 W1-6 LEGEND - BLACK BACKGROUND - FLUORESCENT YELLOW (LEFT OR RIGHT) AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 8.00   48X24   41-4223   2   .100 12.50   60X30   41-4262   2   .100				 W2-1 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-4226   1   .080 9.00   36   41-4236   1   .080				 W3-1 OCTAGON - RED AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-0501   1   .080 16.00   48   41-0503   2   .100				 W4-1 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4448   1   .080 16.00   48   41-4452   2   .100				 W4-1 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4449   1   .080 16.00   48   41-4459   2   .100				 W5-1 ROAD NARROWS AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4402   1   .080 16.00   48   41-4404   2   .100				 W6-1 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4335   1   .080 16.00   48   41-4330   2   .100				 W6-2 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4335   1   .080 16.00   48   41-4330   2   .100				 W7-1 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-4506   1   .080 9.00   36   41-4530   1   .080 16.00   48   41-4508   2   .100				 W8-5 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-4519   1   .080 9.00   36   41-4520   1   .080 16.00   48   41-4521   2   .100			
 W1-2 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-4029   1   .080 9.00   36   41-4169   1   .080				 W1-2 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-4168   1   .080 9.00   36   41-4032   1   .080				 W1-7 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 8.00   48X24   41-4207   2   .100 12.50   60X30   41-4208   2   .100				 W2-2 (LEFT OR RIGHT) AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-4225   1   .080 9.00   36   41-4235   1   .080				 W3-2 TRIANGLE - RED & WHITE AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-0504   1   .080 16.00   48   41-0506   2   .100				 W4-2 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4442   1   .080 16.00   48   41-4446   2   .100				 W4-2 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4441   1   .080 16.00   48   41-4447   2   .100				 W6-3 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4329   1   .080 16.00   48   41-4331   2   .100																				
 W1-8 LEGEND - BLACK BACKGROUND - FLUORESCENT YELLOW (LEFT OR RIGHT) AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 3.00   18X24   41-3951   1   .080 7.50   30X36   41-4211   1   .080 12.00   36X48   41-4260   2   .080				 W3-3 SYMBOL & LEGEND - BLACK BACKGROUND - YELLOW TOP CIRCLE - RED BOTTOM CIRCLE - GREEN AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-0835   1   .080 16.00   48   41-0848   2   .100				 W4-3 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4468   1   .080 16.00   48   41-4435   2   .100				 W4-3 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4470   1   .080 16.00   48   41-4434   2   .100																																				
 WHEN FLASHING STOP AHEAD W/ FLASHERS AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 25.00   60   41-0534   2   .125																																																
 W9-1 LEFT LANE ENDS AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4443   1   .080 16.00   48   41-4444   2   .100				 W9-1 RIGHT LANE ENDS AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4440   1   .080 16.00   48   41-4445   2   .100				 W11-2 LEGEND - BLACK BACKGROUND - FLUORESCENT YELLOW GREEN AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-4829   1   .080 9.00   36   41-4830   1   .080				 W12-1 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-4213   1   .080 9.00   36   41-4215   1   .080				 W12-2 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4706   1   .080 16.00   48   41-4708   2   .100				 W13-1P (SUBPLATE) AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 2.25   18X18   41-5566   .080 4.00   24X24   41-5567   .080 6.25   30X30   41-5574   .080				 W16-9aP (SUBPLATE) USE AT ADVANCE SIGN LOCATION LEGEND - BLACK BACKGROUND - FLUORESCENT YELLOW GREEN AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 2.00   24X12   41-6140   .080				 W16-7P (SUBPLATE) USE AT CROSSWALK LEGEND - BLACK BACKGROUND - FLUORESCENT YELLOW GREEN AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 2.00   24X12   41-2617   .080				 W16-7PR (SUBPLATE) USE AT CROSSWALK LEGEND - BLACK BACKGROUND - FLUORESCENT YELLOW GREEN AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 2.00   24X12   41-2619   .080				 W16-9P (SUBPLATE) USE AT ADVANCE SIGN LOCATION LEGEND - BLACK BACKGROUND - FLUORESCENT YELLOW GREEN AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 2.00   24X12   41-6126   .080 3.75   30X18   41-6137   .080												
 W9-2 LANE ENDS MERGE LEFT AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4454   1   .080 16.00   48   41-4456   2   .100				 W9-2 LANE ENDS MERGE RIGHT AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 9.00   36   41-4453   1   .080 16.00   48   41-4455   2   .100				 W11-8 AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 6.25   30   41-4680   1   .080 9.00   36   41-4681   1   .080				 W12-1 LEFT LANE (SUBPLATE) AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 5.00   30X24   41-4721   .080				 W12-2 RIGHT LANE (SUBPLATE) AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 5.00   30X24   41-4722   .080				 W13-2 EXIT 00 M.P.H. AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 12.00   36X48   41-5596   2   .100				 W16-2aP (SUBPLATE) USE AT ADVANCE SIGN LOCATION AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 41-6130   000 FT   .080 41-6134   0000 FT   .080																								
 W13-3 RAMP 00 M.P.H. AREA (SQ. FT.)   SIZE (INCHES)   CONN. D.O.T.   POSTS   ALUM. THK. 12.00   36X48   41-5581   2   .100																																																

**NOTES:**

- FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS".
- SIGNS OF DIFFERENT DIMENSIONS TO BE ERRECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
- POSTS - SEE STANDARD SHEET TR-1208\_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
- POSTS SHALL BE 4 LBS./FT.
- SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
- FLUORESCENT YELLOW RETROREFLECTIVE STRIPS SHALL BE INSTALLED ON ALL SIGN POSTS FOR W1-6 AND W1-8 SIGNS.
- FLUORESCENT YELLOW GREEN RETROREFLECTIVE STRIPS SHALL BE INSTALLED ON ALL SIGN POSTS FOR S1-1 AND W11-2 SIGNS LOCATED AT CROSSINGS. RETROREFLECTIVE STRIPS SHOULD NOT BE INSTALLED ON ADVANCE CROSSING WARNING SIGNS.
- SEE STANDARD SHEET TR-1208\_01 "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS" FOR RETROREFLECTIVE STRIP DETAILS AND INSTALLATION.

**COLORS:**

BACKGROUND - YELLOW EXCEPT AS NOTED.  
 LEGEND - BLACK  
 ALL SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

NO.	DATE	DESCRIPTION	REVISIONS
<b>FREEMAN COMPANIES</b>			
<small>LAND DEVELOPMENT ENGINEERING DESIGN CONSTRUCTION SERVICES          DBE   DAS   MBE   CM/DMSC CERTIFIED          CIVIL   GEOTECHNICAL          SURVEY   ENVIRONMENTAL</small>			
FREEMAN COMPANIES, LLC <small>36 JOHN STREET          HARTFORD, CT 06106          WWW.FREEMANCO.COM          TEL: (860) 251-9550          TOLL FREE: (800) 664-5141          FAX: (860) 986-7161</small>			
ELEVATE YOUR EXPECTATIONS			
<b>BROOKFIELD STREETSCAPE PHASE III          OLD ROUTE 7 &amp; LAUREL HILL ROAD</b>			
<b>BROOKFIELD, CONNECTICUT</b>			
DESIGNED:	Y.L.		
DRAFTED:	C.S.		
CHECKED:	Y.L.		
APPROVED:	P.A.R.		
SCALE:	AS NOTED		
FC PROJECT NO.:	2019-0106		
DATE:	3/26/2020		
CAD/HW_MST_2019_0106_MDS	9-11		
TITLE: SIGN FACE SHEET ALUMINUM Y S&W-SERIES TYPICAL SIGN DETAILS			
DWG NO.: <b>MDS-11</b>			
SHEET NO.:			

FREEMAN COMPANIES, LLC - R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MST\_2019\_0106\_MDS\_3-11.dwg Jun 28, 2021 - 4:24pm Plotted By: cauprment

<b>D1 - SERIES</b> D1-1 51-5202 Variable → D1-2 51-5203 Variable → <b>VARIABLE LEGEND &amp; ARROW DIRECTION</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _5.00 60X12 51-5202 2 .100 10.00 60X24 51-5203 2 .100	<b>D3 - SERIES</b> D3-1 Variable Road Name	<b>D4 - SERIES</b> D4-2  <b>VARIABLE ARROW DIRECTION</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _5.00 24X30 51-6006 1 .080 _7.50 30X36 51-6007 1 .080	<b>D5 - SERIES</b> D5-2b  <b>LEGEND - WHITE BACKGROUND - BLUE</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # 42.25 78X78 51-6901 2 .125	<b>D7 - SERIES</b> D7-1 51-6802 Variable → 51-6803 Variable → <b>W OR W/O ARROW</b> <b>VARIABLE ARROW DIRECTION</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _4.17 60X12 51-6802 2 .100 _8.33 60X24 51-6803 2 .100	<b>D9 - SERIES</b> D9-2  <b>** FOR ARROW SUBPLATES USE M5 &amp; M6 SERIES</b> <b>VARIABLE ARROW DIRECTION</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _4.00 24X24 51-6788 1 .080	<b>D10 - SERIES</b> D10-4  <b>CARDINAL DIRECTION SHIELD AND NUMERALS ARE VARIABLE</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _6.75 18X54 51-5307 1 .080	<b>RECREATIONAL RS - SERIES</b> RS-054  AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _4.00 24X24 51-6873 1 .080	<b>E5 - SERIES</b> E5-1a  <b>FOR USE AT "NO NUMBERED" EXITS</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # 30.00 72X60 51-6150 2 .125	<b>I - SERIES</b> I-3 (Variable) River <b>VARIABLE: RIVER, BROOK, CREEK</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _1.50 18X12 51-2009 1 .080 _4.50 36X18 51-2007 2 .080 12.00 48X36 51-2051 2 .100	<b>INCIDENT MANAGEMENT</b>  <b>CARDINAL DIRECTION VARIABLE - N, S, E</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _3.00 12X36 51-5103 1 .080 _4.00 12X48 51-5104 1 .080 _5.00 12X60 51-5105 1 .080
		<b>D4-2</b>  <b>VARIABLE ARROW DIRECTION</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _5.00 24X30 51-6033 1 .080 _7.50 30X36 51-6034 1 .080	<b>D4-2</b>  <b>VARIABLE EXIT NUMBER</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # 38.50 84X66 51-2095 3 .125	<b>D4-2</b>  <b>LEGEND - WHITE BACKGROUND - BLUE</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # 39.00 72X78 51-6158 2 .125	<b>D9-2</b> 51-6705 DIESEL → 51-6706 FOOD → 51-6708 GAS → 51-6709 LODGING → <b>VARIABLE ARROW DIRECTION</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.25 36X9 2 .080	<b>D11-1</b>  AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _3.00 24X18 51-1354 1 .080	<b>RS-117</b>  AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _4.00 24X24 51-7872 1 .080	<b>E5-1a</b>  51-6124  51-6125 <b>FOR USE AT "NO NUMBERED" EXITS</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # 32.50 78X60 2 .125	<b>I-7</b> (Town Name) (INCORPORATED) (DATE) TOWN LINE <b>VARIABLE: TOWN / CITY</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _7.50 40X27 51-2020 2 .080	<b>INCIDENT MANAGEMENT</b>  <b>SYMBOL - WHITE BACKGROUND - BLUE</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _3.00 18X24 51-5943 1 .080
		<b>D4-2</b>  <b>VARIABLE ARROW DIRECTION</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _5.00 24X30 51-6044 1 .080 _7.50 30X36 51-6045 1 .080	<b>D4-2</b>  <b>VARIABLE EXIT NUMBER</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # 38.50 84X66 51-2097 3 .125		<b>D9-2</b> 51-5405 STATE POLICE → 51-6714 CAMPING → 51-6960 INFO → <b>VARIABLE ARROW DIRECTION</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.25 36X9 2 .080		<b>RS-117</b>  51-2705  51-2706 L or R AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.19 21X15 51-2705 1 .080 _2.19 21X15 51-2706 1 .080	<b>E5-1a</b>  51-6126  51-6127 <b>FOR USE AT "NO NUMBERED" EXITS</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # 45.00 108X60 2 .125	<b>I-7</b>  51-6504 Variable 51-6505 Variable <b>TO BE SUBMOUNTED W/ 51-5943</b> <b>LEGEND - WHITE BACKGROUND - BLUE</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _0.75 18X6 51-6504 1 .080 _1.50 18X12 51-6505 1 .080	
		<b>D4-2</b>  <b>VARIABLE EXIT NUMBER</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # 38.50 84X66 51-2099 3 .125						<b>E5-1a</b>  51-6128  51-6129 <b>FOR USE AT "NO NUMBERED" EXITS</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # 57.50 138X60 2 .125	<b>I-7</b>  <b>LEGEND - BLACK BACKGROUND - WHITE</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # 7.50 36X30 51-5937 2 .080	

<b>M1 - SERIES</b> M1-1  51-6662 51-6666 VARIABLE: 1 or 2 DIGITS <b>LEGEND - WHITE BACKGROUND - RED &amp; BLUE</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _3.20 24X24 51-6662 1 .080 _3.99 30X24 51-6663 1 .080 _7.20 36X36 51-6666 2 .080 _8.99 45X36 51-6667 2 .100	<b>M2 - SERIES</b> M2-1 JCT AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.19 21X15 51-6640 (1) .080 _2.19 21X15 51-6610 (2) .080	<b>M3 - SERIES</b> M3-1 NORTH AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.00 24X12 51-6651 (1) .080 _2.00 24X12 51-6611 (2) .080 _4.50 36X18 51-6655 (1) .080 _4.50 36X18 51-6625 (2) .080	<b>M4 - SERIES</b> M4-5 TO AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.00 24X12 51-6650 (1) .080 _2.00 24X12 51-6620 (2) .080	<b>M5 - SERIES</b> M5-1  51-2690 51-2630  51-2691 51-2631 AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.19 21X15 51-2690 (1) .080 _2.19 21X15 51-2691 (1) .080 _2.19 21X15 51-2630 (2) .080 _2.19 21X15 51-2631 (2) .080	<b>M6 - SERIES</b> M6-1  L or R AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.19 21X15 51-2688 (1) .080 _2.19 21X15 51-2628 (2) .080 _2.19 21X15 51-2629 (2) .080	<b>M6-4</b>  AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.19 21X15 51-2697 (1) .080 _2.19 21X15 51-2627 (2) .080
<b>M1-4</b>  51-6615 51-6635 VARIABLE: 1 or 2 DIGITS <b>LEGEND - WHITE BACKGROUND - WHITE</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _4.00 24X24 51-6615 1 .080 _5.00 30X24 51-6644 1 .080 _9.00 36X36 51-6635 2 .080 11.25 45X36 51-6645 2 .100		<b>M3-2</b> EAST AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.00 24X12 51-6652 (1) .080 _2.00 24X12 51-6612 (2) .080 _4.50 36X18 51-6656 (1) .080 _4.50 36X18 51-6626 (2) .080		<b>M5-2</b>  51-2692 51-2632  51-2693 51-2633 AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.19 21X15 51-2692 (1) .080 _2.19 21X15 51-2693 (1) .080 _2.19 21X15 51-2632 (2) .080 _2.19 21X15 51-2633 (2) .080	<b>M6-2</b>  51-2688 51-2629  51-2689 51-2609 AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.19 21X15 51-2688 (1) .080 _2.19 21X15 51-2689 (1) .080 _2.19 21X15 51-2628 (2) .080 _2.19 21X15 51-2629 (2) .080 _4.38 30X21 51-2609 (2) .080	
<b>M1-5</b>  51-6616 51-6636 VARIABLE: 1 or 2 DIGITS <b>LEGEND - BLACK BACKGROUND - WHITE</b> AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _4.00 24X24 51-6616 1 .080 _5.00 30X24 51-6647 1 .080 _9.00 36X36 51-6636 2 .080 11.25 45X36 51-6646 2 .100		<b>M3-3</b> SOUTH AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.00 24X12 51-6653 (1) .080 _2.00 24X12 51-6613 (2) .080 _4.50 36X18 51-6657 (1) .080 _4.50 36X18 51-6627 (2) .080			<b>M6-3</b>  AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT)(INCHES)D.O.T. # # # # # _2.19 21X15 51-2685 (1) .080 _2.19 21X15 51-2625 (2) .080	

**NOTES:**

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- POSTS - SEE STANDARD SHEET TR-1208\_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
- POSTS SHALL BE 4 LBS./FT.
- SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

**COLORS:**

- D - SERIES  
D1, 2, 3, 4, 10 BACKGROUND-GREEN, LEGEND-WHITE
- D7, RS BACKGROUND-BROWN, LEGEND-WHITE
- D9 BACKGROUND-BLUE, LEGEND-WHITE
- ALL OTHER D-SERIES AS NOTED
- E - SERIES  
BACKGROUND-GREEN, LEGEND-WHITE
- I - SERIES  
BACKGROUND-GREEN, LEGEND-WHITE (EXCEPT AS NOTED)
- M2 - M6 SERIES  
(1) BACKGROUND-BLUE, LEGEND-WHITE  
(2) BACKGROUND-WHITE, LEGEND-BLACK

ALL COLORS SHALL BE TYPE IX RETROREFLECTIVE WITH THE EXCEPTION OF BROWN WHICH SHALL BE TYPE IV RETROREFLECTIVE AND BLACK WHICH SHALL BE OPAQUE.

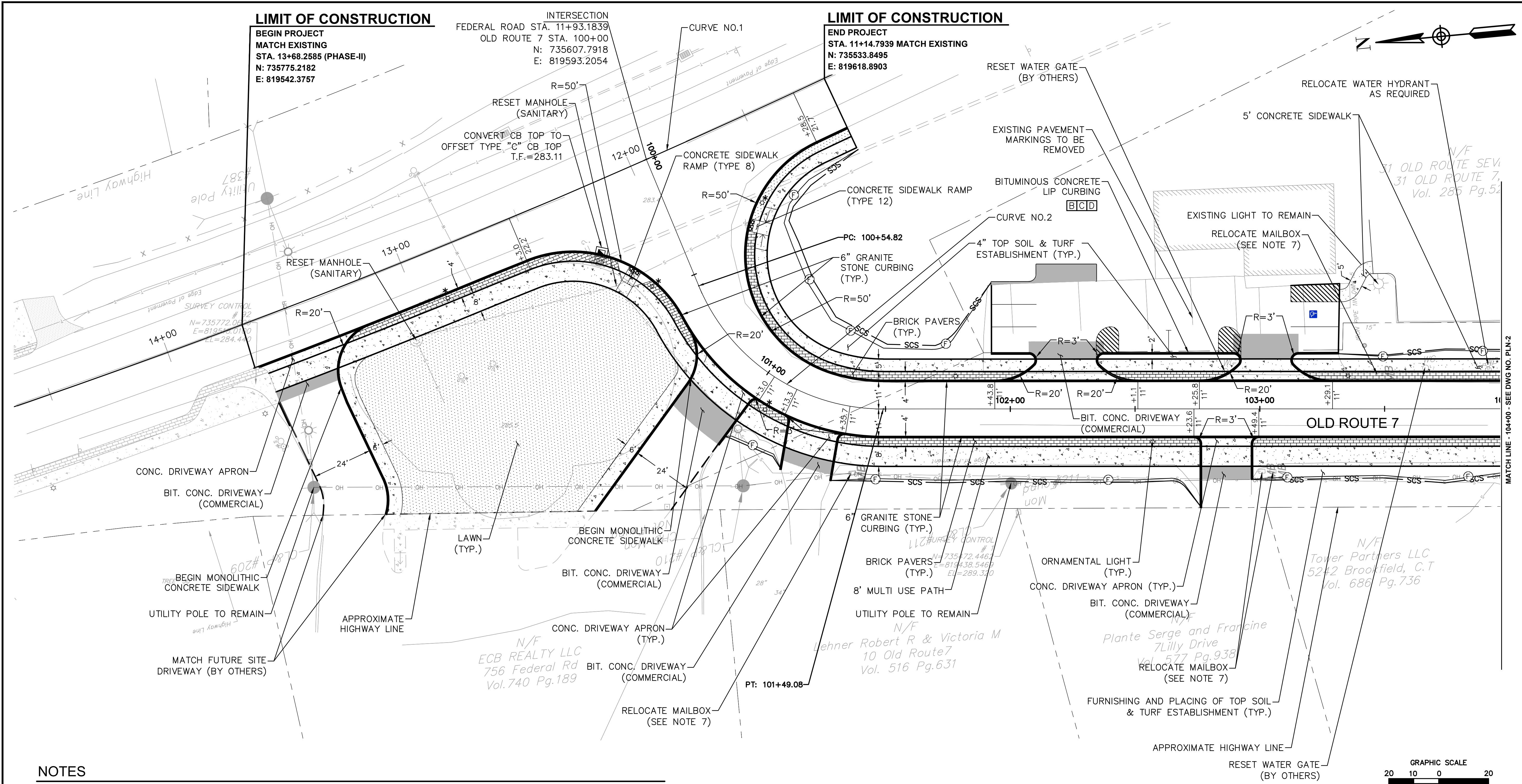
NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
DESIGNED: Y.L.  
DRAFTED: C.S.  
CHECKED: Y.L.  
APPROVED: P.A.R.  
SCALE: AS NOTED  
FC PROJECT NO.: 2019-0106  
DATE: 3/26/2020  
CAD: HW\_MST\_2019\_0106\_MDS\_3-11

**BROOKFIELD STREETScape PHASE III  
OLD ROUTE 7 & LAUREL HILL ROAD  
BROOKFIELD, CONNECTICUT**

TITLE: SIGN FACE SHEET  
ALUMINUM Z  
D,RS,E,I&M SERIES  
TYPICAL SIGN DETAILS  
DWG NO.: MDS-12  
SHEET NO.:

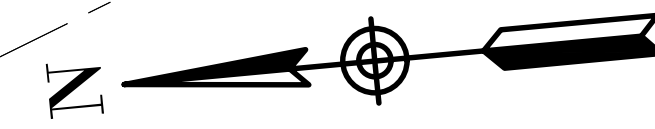
FREEMAN COMPANIES, LLC - R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MSH\_2019\_0106\_HW.dwg Apr 14, 2021-3:27pm Plotted By: caupment



**LIMIT OF CONSTRUCTION**  
 BEGIN PROJECT  
 MATCH EXISTING  
 STA. 13+68.2585 (PHASE-II)  
 N: 735775.2182  
 E: 819542.3757

INTERSECTION  
 FEDERAL ROAD STA. 11+93.1839  
 OLD ROUTE 7 STA. 100+00  
 N: 735607.7918  
 E: 819593.2054

**LIMIT OF CONSTRUCTION**  
 END PROJECT  
 STA. 11+14.7939 MATCH EXISTING  
 N: 735533.8495  
 E: 819618.8903


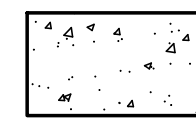
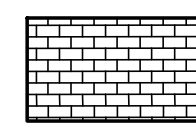
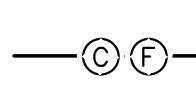
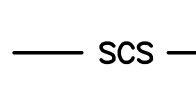
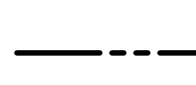
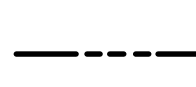


MATCH LINE - 104+00 - SEE DWG NO. PLN-2


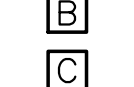
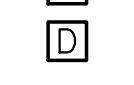

**NOTES**

1. ALL SOIL DISTURBANCES SHALL BE TREATED WITH 4" TOPSOIL & TURF ESTABLISHMENT.
  2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
  3. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER REGARDING THE LIMITS OF RESTORATION TO ENSURE A SMOOTH TRANSITION FROM NEW CONSTRUCTION TO EXISTING CONDITIONS.
  4. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" (CBYD) 1-800-922-4455 PRIOR TO COMMENCING CONSTRUCTION.
  5. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS OR AS DIRECTED BY THE ENGINEER.
  6. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY FOR MANHOLES, GATES, BOXES AND FRAMES ETC., AFFECTED BY THE CONSTRUCTION ACTIVITIES WHICH ARE NOT IDENTIFIED AS BEING REMOVED SHALL BE RESET OR RECONSTRUCTED (AS REQUIRED) TO THE PROPER GRADE.
  7. CLUSTER BOX UNITS TO BE FURNISHED BY THE TOWN AND INSTALL BY THE CONTRACTOR. LOCATION TO BE DETERMINED BY THE TOWN. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
  8. ALL ELECTRICAL SUPPLY TO COME FROM EXISTING ELECTRICAL CONTROL BOX INSTALLED IN BROOKFIELD STREETScape PHASE 2.
- \* ORNAMENTAL LIGHTS WITHIN STATE RIGHT OF WAY TO HAVE BREAK AWAY SUPPORTS (SEE MDS-01)

**LEGEND**

-  BIT. CONCRETE DRIVEWAY (COMMERCIAL)
-  CONCRETE SIDEWALK / CONCRETE DRIVEWAY APRON
-  BRICK PAVERS
-  CUT/FILL APPROXIMATE SLOPE LIMITS
-  SEDIMENTATION CONTROL SYSTEM
-  HIGHWAY LINE
-  EASEMENT LINE

**SCHEDULE OF RIGHTS & EASEMENTS**

-  EASEMENT FOR HIGHWAY PURPOSES
-  RIGHT TO CONSTRUCT DRIVEWAY ACQUIRED
-  RIGHT TO GRADE AND INSTALL SEDIMENTATION CONTROL ACQUIRED
-  RIGHT TO CONSTRUCT PARKING LOT ACQUIRED

**CURVE NO. 1 DATA**

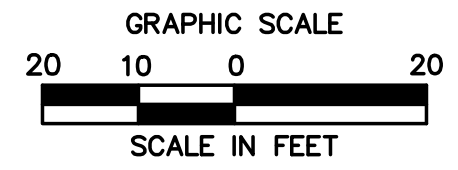
$\Delta$	= 10° 39' 42"
R	= 3200'
T	= 298.59'
L	= 595.45'

**CURVE NO. 2 DATA**

$\Delta$	= 67° 30' 29"
R	= 80'
T	= 53.46'
L	= 94.26'

**GRANITE STONE CURB**

STA. 11+93 - 13+75 & STA. 100+00 - 104+00	
STRAIGHT	L=609'
R=50'	L=326'
R=20'	L=133'
DRIVEWAY RETURN (R=3')	5 (EA)



NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
 DBE | DAS | MBE | CMASCC CERTIFIED  
 CIVIL | GEOTECHNICAL  
 SURVEY | ENVIRONMENTAL

FREEMAN COMPANIES, LLC  
 30 JOHN STREET  
 HARTFORD, CT 06106  
 WWW.FREEMANCS.COM  
 TEL: (860) 251-9550  
 TOLL FREE: (800) 664-5141  
 FAX: (860) 886-7161

ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETScape PHASE III**  
**OLD ROUTE 7 & LAUREL HILL ROAD**  
 BROOKFIELD, CONNECTICUT

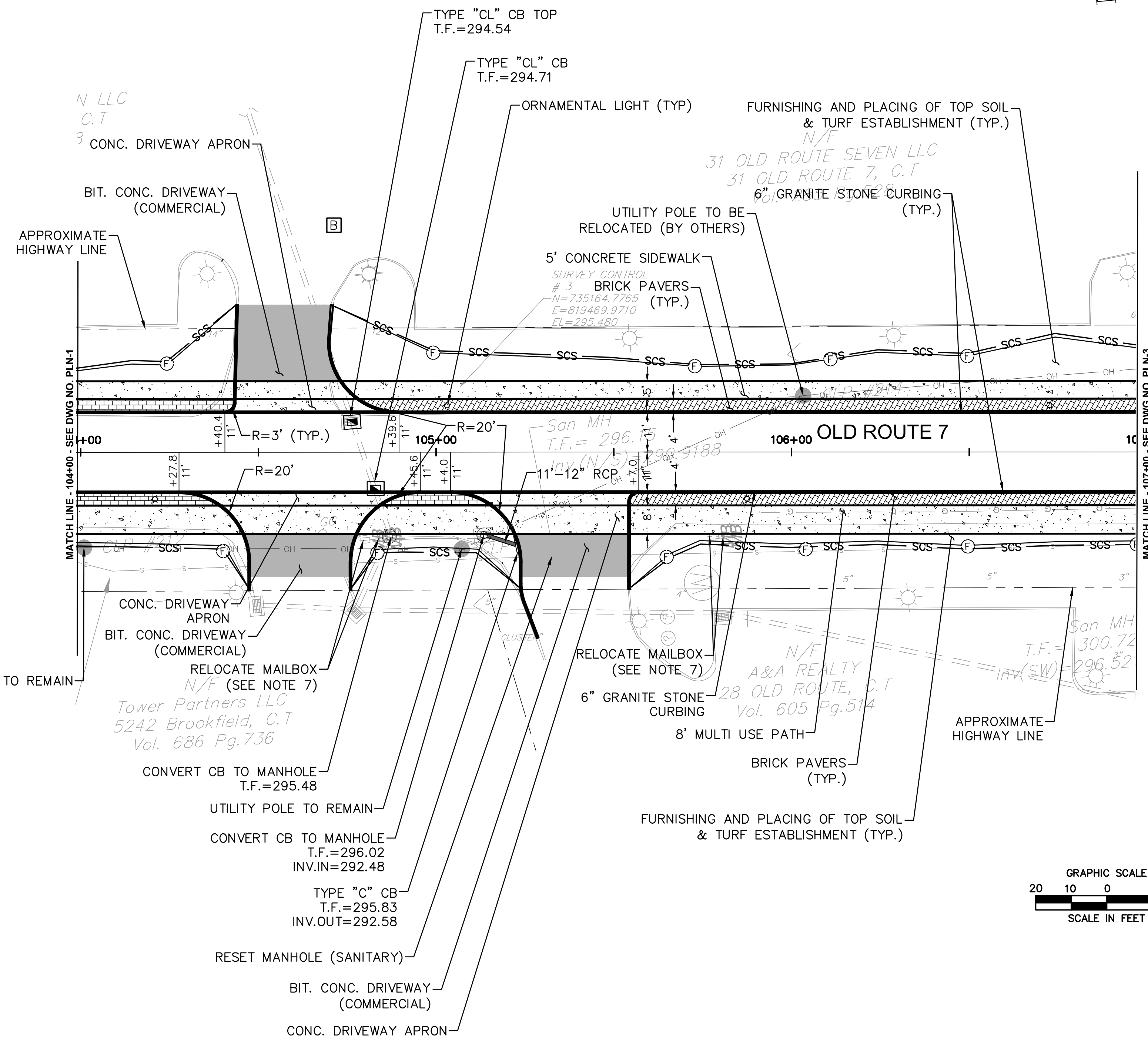
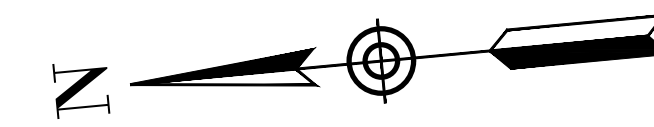
DESIGNED: Y.L.  
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 CHECKED: Y.L.  
 APPROVED: P.A.R.  
 SCALE: AS NOTED  
 FC PROJECT NO.: 2019-0106  
 DATE: 3/26/2020  
 CAD/HW\_MSH\_2019\_0106\_HWY

TITLE:  
 ROADWAY PLAN  
 DWG NO.:  
 PLN-1

SHEET NO.:



Freeman Companies, LLC - C:\Users\CSURR\OneDrive\AppData\Local\Temp\AcPublish\_1884\HW\_MSH\_2019\_0106\_Hwy.dwg Jan 26, 2021 - 4:30pm. Plotted By: ceaprenant



**LEGEND**

- BIT. CONCRETE DRIVEWAY (COMMERCIAL)
- CONCRETE SIDEWALK / CONCRETE DRIVEWAY APRON
- BRICK PAVERS
- CUT/FILL APPROXIMATE SLOPE LIMITS
- SEDIMENTATION CONTROL SYSTEM
- HIGHWAY LINE
- EASEMENT LINE

**NOTES**

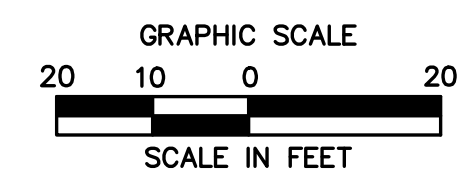
1. ALL SOIL DISTURBANCES SHALL BE TREATED WITH 4" TOPSOIL & TURF ESTABLISHMENT.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER REGARDING THE LIMITS OF RESTORATION TO ENSURE A SMOOTH TRANSITION FROM NEW CONSTRUCTION TO EXISTING CONDITIONS.
4. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" (CBYD) 1-800-922-4455 PRIOR TO COMMENCING CONSTRUCTION.
5. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY FOR MANHOLES, GATES, BOXES AND FRAMES ETC., AFFECTED BY THE CONSTRUCTION ACTIVITIES WHICH ARE NOT IDENTIFIED AS BEING REMOVED SHALL BE RESET OR RECONSTRUCTED (AS REQUIRED) TO THE PROPER GRADE.
7. CLUSTER BOX UNITS TO BE FURNISHED BY THE TOWN AND INSTALL BY THE CONTRACTOR. LOCATION TO BE DETERMINED BY THE TOWN. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

**SCHEDULE OF RIGHTS & EASEMENTS**

- [A] EASEMENT FOR HIGHWAY PURPOSES
- [B] RIGHT TO CONSTRUCT DRIVEWAY ACQUIRED
- [C] RIGHT TO GRADE AND INSTALL SEDIMENTATION CONTROL ACQUIRED

**SANITARY SEWER**

TEST PIT #	STATION	BASELINE OFFSET	NORTHING	EASTING	GROUND ELEVATION (FT)	INV. ELEVATION OF PIPE (FT)	TOP OF UTILITY ELEVATION (FT)	DESCRIPTION	RELOCATION ANTICIPATED
S-1	105+27	30.00 RT	735149.826	819419.493	295.40±	292.58±	291.11±	8" PIPE	YES



**GRANITE STONE CURB**

STA. 104+00 - 107+00	
STRAIGHT	L=657'
R=20'	L=126'
DRIVEWAY RETURN (R=3')	2 (EA)

NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
 DBE | DAS | MBE | CMASCC CERTIFIED  
 CIVIL | GEOTECHNICAL  
 SURVEY | ENVIRONMENTAL

Freeman Companies, LLC  
 36 JOHN STREET  
 HARTFORD, CT 06106  
 WWW.FREEMANCO.COM  
 TEL: (860) 251-9550  
 TOLL FREE: (800) 964-5141  
 FAX: (860) 966-7161

**BROOKFIELD STREETSCAPE PHASE III  
 OLD ROUTE 7 & LAUREL HILL ROAD**

BROOKFIELD, CONNECTICUT

DESIGNED: Y.L.  
 DRAFTED: C.S.  
 CHECKED: Y.L.  
 APPROVED: P.A.R.  
 SCALE: AS NOTED  
 FC PROJECT NO.: 2019-0106  
 DATE: 3/26/2020  
 CAD: HW\_MSH\_2019\_0106\_Hwy

TITLE:  
 ROADWAY PLAN

DWG NO.:  
 PLN-2

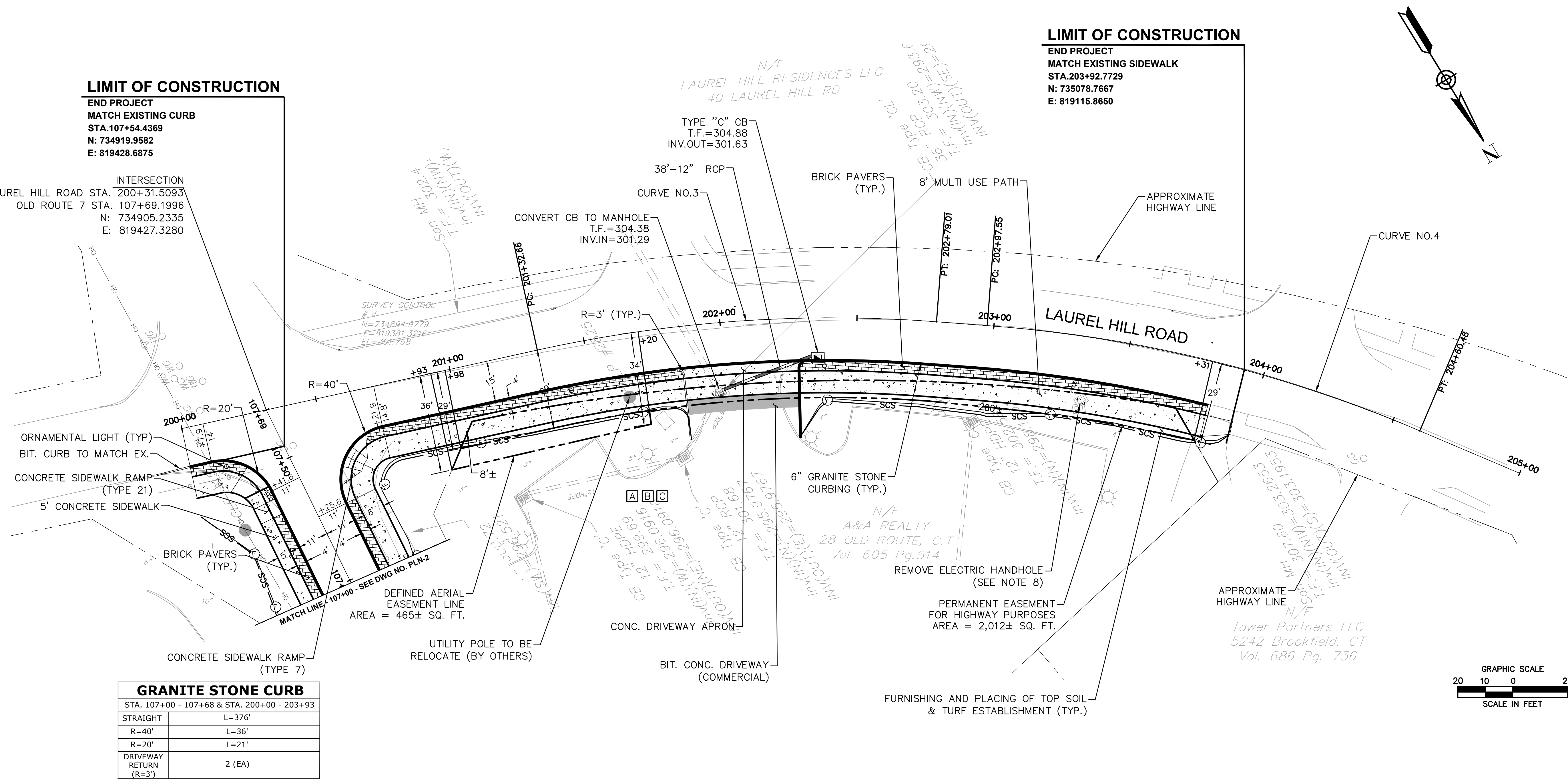
SHEET NO.:

FREEMAN COMPANIES, LLC - R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MSH\_2019\_0106\_HWY.dwg Feb 11, 2021 - 9:51am Plotted By: caupreant

### LIMIT OF CONSTRUCTION

END PROJECT  
MATCH EXISTING CURB  
STA. 107+54.4369  
N: 734919.9582  
E: 819428.6875

INTERSECTION  
LAUREL HILL ROAD STA. 200+31.5093  
OLD ROUTE 7 STA. 107+69.1996  
N: 734905.2335  
E: 819427.3280



### LIMIT OF CONSTRUCTION

END PROJECT  
MATCH EXISTING SIDEWALK  
STA. 203+92.7729  
N: 735078.7667  
E: 819115.8650

GRANITE STONE CURB	
STA. 107+00 - 107+68 & STA. 200+00 - 203+93	
STRAIGHT	L=376'
R=40'	L=36'
R=20'	L=21'
DRIVEWAY RETURN (R=3')	2 (EA)

### NOTES

- ALL SOIL DISTURBANCES SHALL BE TREATED WITH 4" TOPSOIL & TURF ESTABLISHMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH THE ENGINEER REGARDING THE LIMITS OF RESTORATION TO ENSURE A SMOOTH TRANSITION FROM NEW CONSTRUCTION TO EXISTING CONDITIONS.
- CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" (CBYD) 1-800-922-4455 PRIOR TO COMMENCING CONSTRUCTION.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS OR AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY FOR MANHOLES, GATES, BOXES AND FRAMES ETC., AFFECTED BY THE CONSTRUCTION ACTIVITIES WHICH ARE NOT IDENTIFIED AS BEING REMOVED SHALL BE RESET OR RECONSTRUCTED (AS REQUIRED) TO THE PROPER GRADE.
- CLUSTER BOX UNITS TO BE FURNISHED BY THE TOWN AND INSTALL BY THE CONTRACTOR. LOCATION TO BE DETERMINED BY THE TOWN. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- COST OF WORK TO BE INCLUDED IN CLEARING AND GRUBBING.

### LEGEND

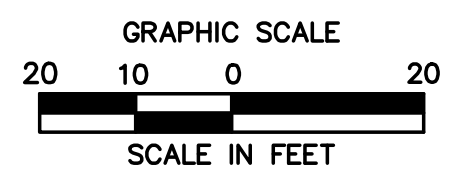
- BIT. CONCRETE DRIVEWAY (COMMERCIAL)
- CONCRETE SIDEWALK / CONCRETE DRIVEWAY APRON
- BRICK PAVERS
- CUT/FILL APPROXIMATE SLOPE LIMITS
- SEDIMENTATION CONTROL SYSTEM
- HIGHWAY LINE
- EASEMENT LINE

### SCHEDULE OF RIGHTS & EASEMENTS

- EASEMENT FOR HIGHWAY PURPOSES
- RIGHT TO CONSTRUCT DRIVEWAY ACQUIRED
- RIGHT TO GRADE AND INSTALL SEDIMENTATION CONTROL ACQUIRED

CURVE NO. 3 DATA
$\Delta = 16^\circ 46' 13"$
R = 500'
T = 73.70'
L = 146.35'

CURVE NO. 4 DATA
$\Delta = 18^\circ 40' 17"$
R = 500'
T = 82.20'
L = 162.94'



NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
LAND DEVELOPMENT ENGINEERING DESIGN CONSTRUCTION SERVICES  
 DBE | DAS | MBE | CMASDC CERTIFIED  
 CIVIL | GEOTECHNICAL  
 SURVEY | ENVIRONMENTAL

FREEMAN COMPANIES, LLC  
36 JOHN STREET  
 HARTFORD, CT 06106  
 WWW.FREEMANCO.COM  
 TEL: (860) 251-9550  
 TOLL FREE: (800) 664-5141  
 FAX: (860) 986-7161

ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETScape PHASE III**  
**OLD ROUTE 7 & LAUREL HILL ROAD**

BROOKFIELD, CONNECTICUT

DESIGNED: Y.L.  
 DRAFTED: C.S.  
 CHECKED: Y.L.  
 APPROVED: P.A.R.  
 SCALE: AS NOTED  
 FC PROJECT NO.: 2019-0106  
 DATE: 3/26/2020  
 CAD/HW\_MSH\_2019\_0106\_HWY

TITLE:  
ROADWAY PLAN

DWG NO.:  
PLN-3

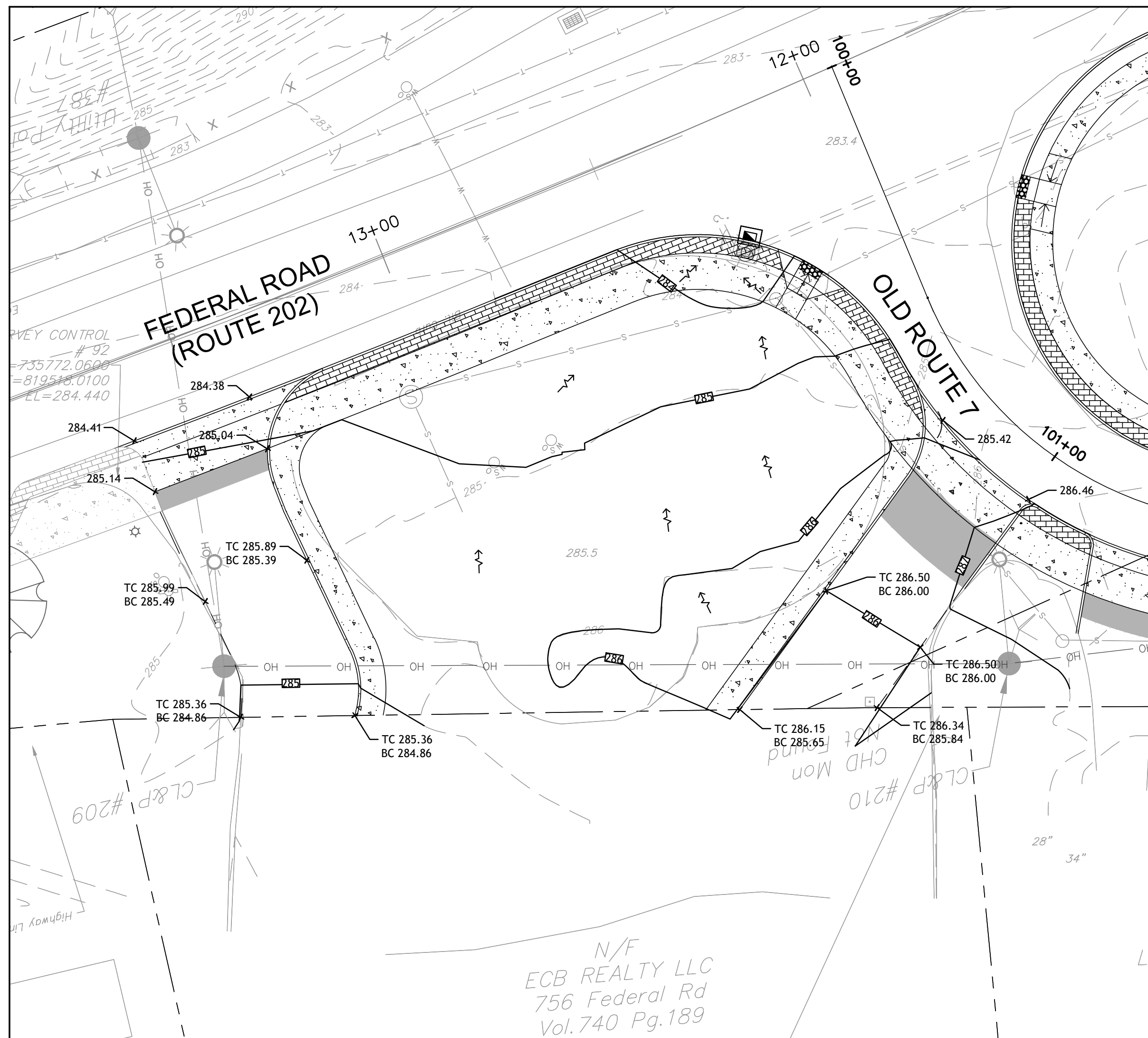
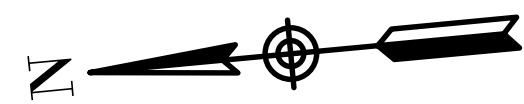
SHEET NO.:

THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF FREEMAN COMPANIES, LLC





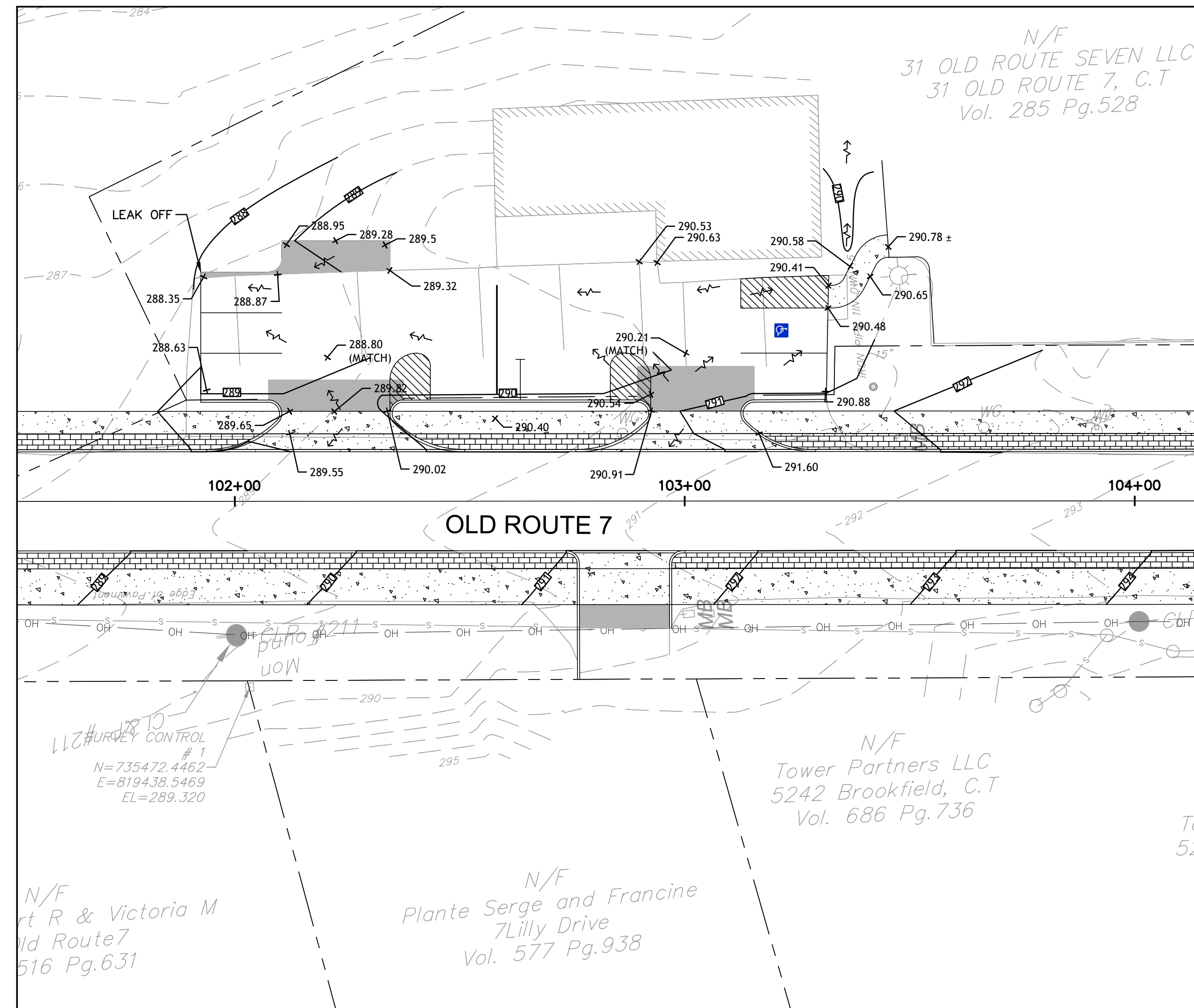
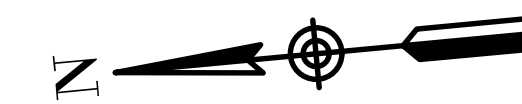
FREEMAN COMPANIES, LLC - R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MSH\_2019\_0106\_GRD.dwg Apr 14, 2021 - 3:31pm Plotted By: ceurremont



**PLAN**  
1"=20'

**LEGEND**

- BIT. CONCRETE
- CONCRETE SIDEWALK / CONCRETE DRIVEWAY APRON
- BRICK PAVERS
- CUT/FILL APPROXIMATE SLOPE LIMITS
- SEDIMENTATION CONTROL SYSTEM
- HIGHWAY LINE
- EASEMENT LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT GRADE
- FLOW ARROW



**PLAN**  
1"=20'

NO.	DATE	DESCRIPTION / REVISIONS

**FREEMAN COMPANIES**  
LAND DEVELOPMENT | INFRASTRUCTURE DESIGN | CONSTRUCTION SERVICES  
 DBE | DAS | MBE | CMASCC CERTIFIED  
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ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETScape PHASE III  
 OLD ROUTE 7 & LAUREL HILL ROAD**

BROOKFIELD, CONNECTICUT

DESIGNED: Y.L.  
 DRAFTED: C.S.  
 CHECKED: Y.L.  
 APPROVED: P.A.R.  
 SCALE: AS NOTED  
 FC PROJECT NO.: 2019-0106  
 DATE: 3/26/2020  
 CAD: HW\_MSH\_2019\_0106\_GRD

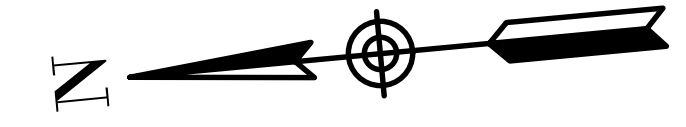
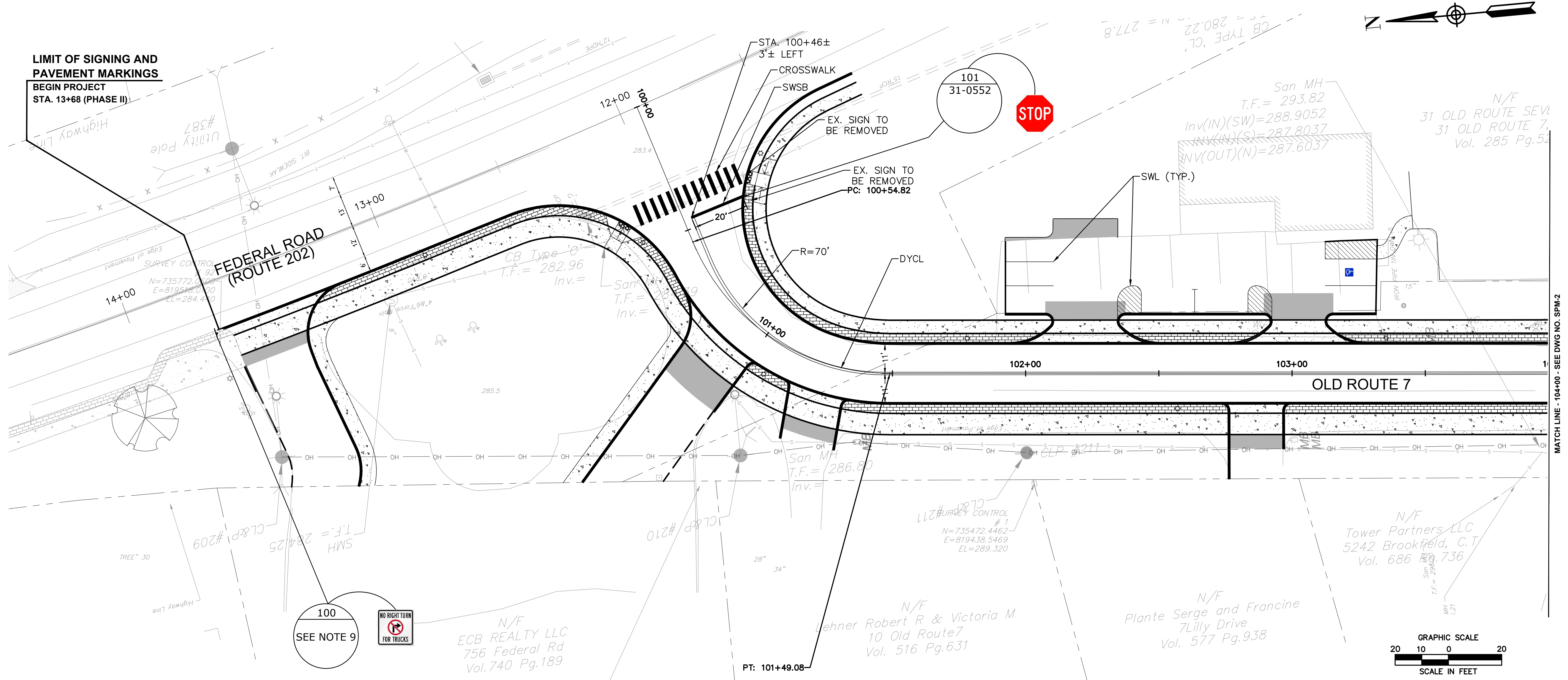
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 GRADING PLAN

DWG NO.:  
 GRD-1

SHEET NO.:

FREEMAN COMPANIES, LLC - R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MSH\_2019\_0106\_SPM.dwg Apr 14, 2021 - 3:32pm Plotted By: caupreant

**LIMIT OF SIGNING AND PAVEMENT MARKINGS BEGIN PROJECT STA. 13+68 (PHASE II)**



MATCH LINE - 104+00 - SEE DWG NO. SPM-2

**SIGNING NOTES:**

1. INSTALL ALL SIGNS AS INDICATED.
2. ALL EXISTING SIGNS WITHIN LIMIT OF CONSTRUCTION TO BE REMOVED UNLESS OTHERWISE NOTED ON PLANS OR DIRECTED BY THE ENGINEER.
3. ALL EXISTING SIGNS OUTSIDE THE LIMIT OF CONSTRUCTION TO REMAIN UNLESS OTHERWISE NOTED ON PLANS OR DIRECTED BY THE ENGINEER.
4. EXACT SIGN LOCATIONS TO BE DETERMINED IN THE FIELD. AS-BUILT PLAN WILL BE REQUIRED TO BE SUBMITTED TO DISTRICT 4 TRAFFIC ENGINEER.
5. WHEN A SIGN IS TO BE REPLACED, THE EXISTING SIGN SHOULD NOT BE REMOVED UNTIL THE NEW REPLACEMENT SIGN IS INSTALLED.
6. SIGNS SHALL NOT BE PLACED LESS THAN 10 FEET FROM UTILITY POLES AND AT LEAST 2 FEET FROM THE ROUTE 202 CURBLINE.
7. INSTALL SIGNS IN ACCORDANCE WITH CTDOT STANDARD SHEETS "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS" AND "METAL SIGN POSTS AND SIGN MOUNTING DETAILS".
8. LOTCIP PROJECT SIGN LOCATION TO BE DETERMINED ON SITE BY THE CONTRACTOR.
9. INSTALL CUSTOM "NO RIGHT TURN FOR TRUCKS" SIGN 24"x24"

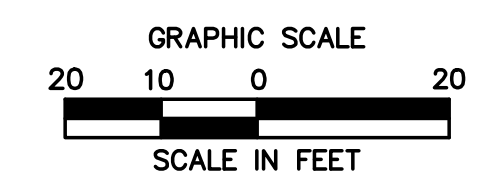
**PAVEMENT MARKING NOTES:**

1. ALL FINAL PAVEMENT MARKINGS TO BE EPOXY UNLESS OTHERWISE NOTED ON THE PLANS.
2. INSTALL ALL PAVEMENT MARKINGS WITHIN THE LIMITS OF CONSTRUCTION UNLESS OTHERWISE SHOWN OR AS DIRECTED BY THE ENGINEER. MATCH TO EXISTING PAVEMENT MARKINGS AT THE LIMIT OF CONSTRUCTION.
3. PAVEMENT MARKINGS TO BE INSTALLED IN ACCORDANCE WITH TRAFFIC STANDARD SHEETS TR-1210\_04, TR-1210\_08 AND TR-1210\_09 EXCEPT AS OTHERWISE DIMENSIONED OR SHOWN ON PLANS.
4. EXISTING PAVEMENT MARKINGS SHALL BE REMOVED BY CONTRACTOR WHERE IN CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS BY A METHOD WHICH IS ACCEPTABLE BY CTDOT DISTRICT OFFICE AND THE CITY. GRINDING IS NOT ALLOWED.

**PAVEMENT MARKING LEGEND**

SWL	4" SOLID WHITE LINE
DYCL	4" DOUBLE YELLOW CENTERLINE
SWSB	12" SOLID WHITE STOP BAR
CROSSWALK	16" WIDE LINE, 8' LONG, 24" SPACE

SIGNING STANDARD CONVENTIONS	
	OVERHEAD INSTALLATION
	CANTILEVER INSTALLATION
	SIDE MOUNTED INSTALLATION
	SINGLE POST MOUNTING
	DOUBLE POST MOUNTING
REGULATORY, WARNING OR GUIDE SIGN INSTALLATION	
	LOCATION NO.
	SIGN NO.



NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
 DBE | DAS | MBE | CMASDC CERTIFIED  
 CIVIL | GEOTECHNICAL  
 SURVEY | ENVIRONMENTAL

FREEMAN COMPANIES, LLC  
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ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETScape PHASE III  
 OLD ROUTE 7 & LAUREL HILL ROAD**

BROOKFIELD, CONNECTICUT

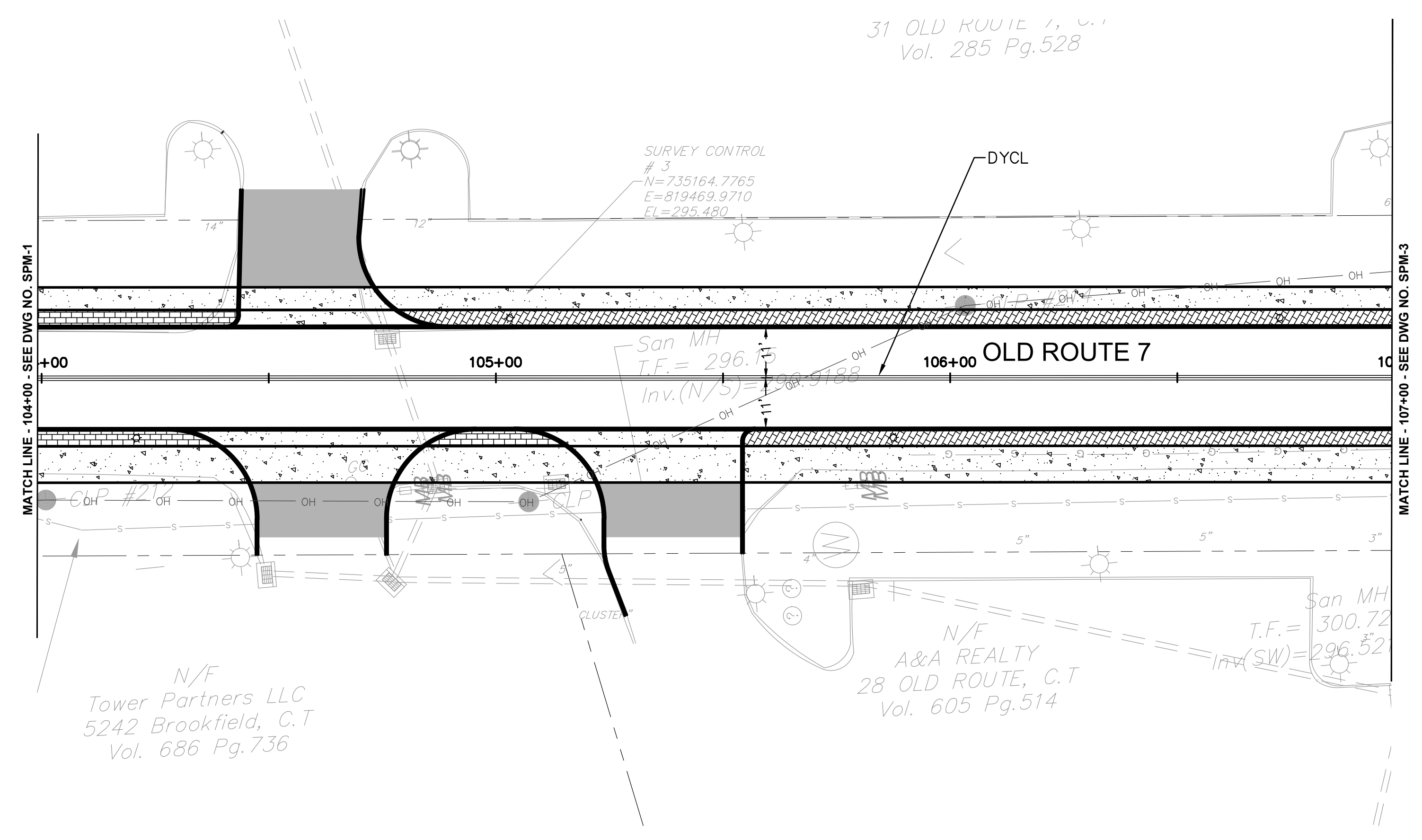
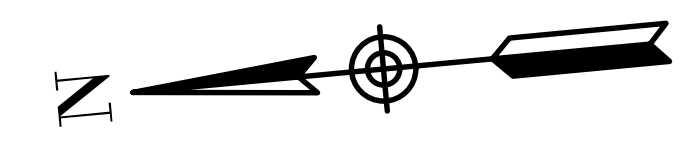
DESIGNED: Y.L.  
 DRAFTED: C.S.  
 CHECKED: Y.L.  
 APPROVED: P.A.R.  
 SCALE: AS NOTED  
 FC PROJECT NO.: 2019-0106  
 DATE: 3/26/2020  
 CAD: HW\_MSH\_2019\_0106\_SPM

TITLE: SIGNAGE & PAVEMENT MARKING PLAN

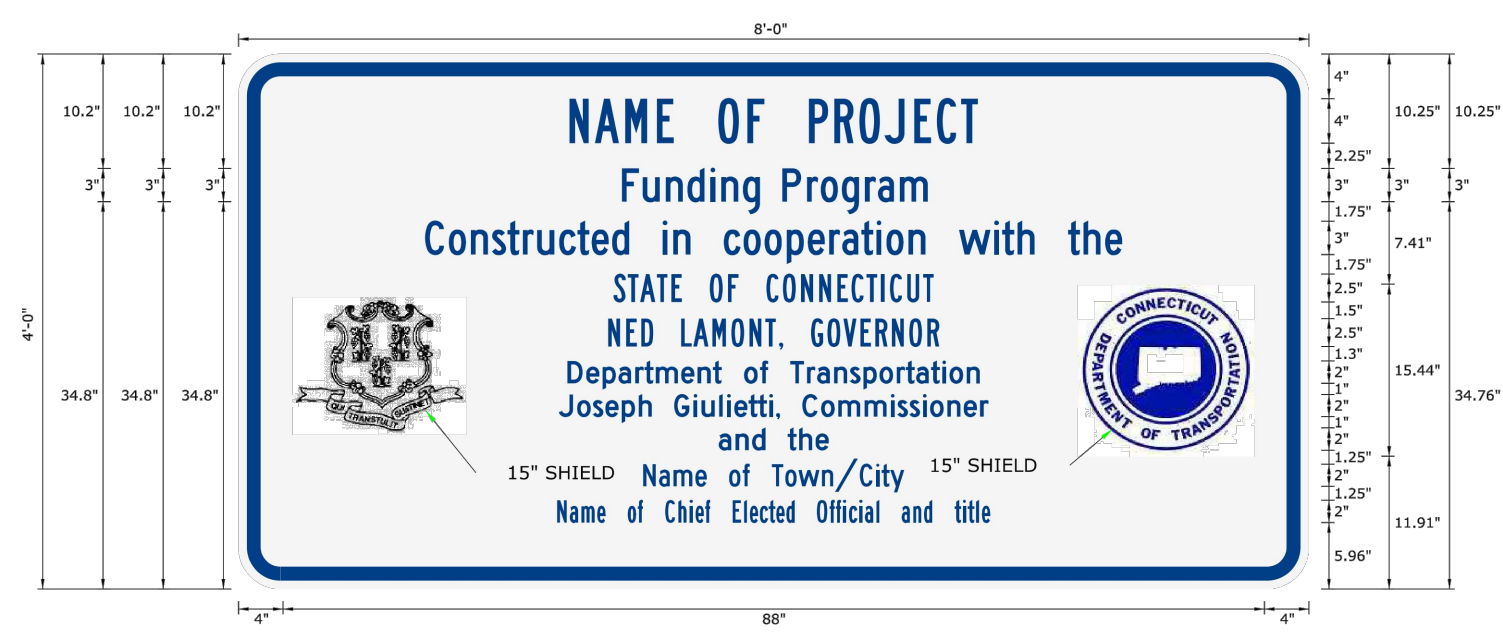
DWG NO.: SPM-1

SHEET NO.:

FREEMAN COMPANIES, LLC . R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MSH\_2019\_0106\_SPM.dwg Mar 19, 2021 - 8:50am Plotted By: caurprement



**LOTICIP PROJECT SIGN**



**SIGNING NOTES:**

1. INSTALL ALL SIGNS AS INDICATED.
2. ALL EXISTING SIGNS WITHIN LIMIT OF CONSTRUCTION TO BE REMOVED UNLESS OTHERWISE NOTED ON PLANS OR DIRECTED BY THE ENGINEER.
3. ALL EXISTING SIGNS OUTSIDE THE LIMIT OF CONSTRUCTION TO REMAIN UNLESS OTHERWISE NOTED ON PLANS OR DIRECTED BY THE ENGINEER.
4. EXACT SIGN LOCATIONS TO BE DETERMINED IN THE FIELD. AS-BUILT PLAN WILL BE REQUIRED TO BE SUBMITTED TO DISTRICT 4 TRAFFIC ENGINEER.
5. WHEN A SIGN IS TO BE REPLACED, THE EXISTING SIGN SHOULD NOT BE REMOVED UNTIL THE NEW REPLACEMENT SIGN IS INSTALLED.
6. SIGNS SHALL NOT BE PLACED LESS THAN 10 FEET FROM UTILITY POLES AND AT LEAST 2 FEET FROM THE ROUTE 202 CURBLINE.
7. INSTALL SIGNS IN ACCORDANCE WITH CTDOT STANDARD SHEETS "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS" AND "METAL SIGN POSTS AND SIGN MOUNTING DETAILS".
8. LOTICIP PROJECT SIGN LOCATION TO BE DETERMINED ON SITE BY THE ENGINEER.

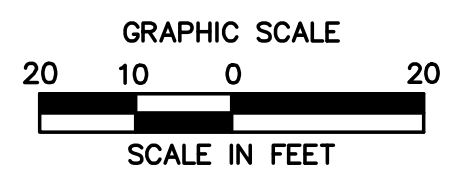
**PAVEMENT MARKING NOTES:**

1. ALL FINAL PAVEMENT MARKINGS TO BE EPOXY UNLESS OTHERWISE NOTED ON THE PLANS.
2. INSTALL ALL PAVEMENT MARKINGS WITHIN THE LIMITS OF CONSTRUCTION UNLESS OTHERWISE SHOWN OR AS DIRECTED BY THE ENGINEER. MATCH TO EXISTING PAVEMENT MARKINGS AT THE LIMIT OF CONSTRUCTION.
3. PAVEMENT MARKINGS TO BE INSTALLED IN ACCORDANCE WITH TRAFFIC STANDARD SHEETS TR-1210\_04, TR-1210\_08 AND TR-1210\_09 EXCEPT AS OTHERWISE DIMENSIONED OR SHOWN ON PLANS.
4. EXISTING PAVEMENT MARKINGS SHALL BE REMOVED BY CONTRACTOR WHERE IN CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS BY A METHOD WHICH IS ACCEPTABLE BY CTDOT DISTRICT OFFICE AND THE CITY. GRINDING IS NOT ALLOWED.

SIGNING STANDARD CONVENTIONS	
	OVERHEAD INSTALLATION
	CANTILEVER INSTALLATION
	SIDE MOUNTED INSTALLATION
	SINGLE POST MOUNTING
	DOUBLE POST MOUNTING
	REGULATORY, WARNING OR GUIDE SIGN INSTALLATION
	LOCATION NO. SIGN NO.

**PAVEMENT MARKING LEGEND**

- SWL 4" SOLID WHITE LINE
- DYCL 4" DOUBLE YELLOW CENTERLINE
- SWSB 12" SOLID WHITE STOP BAR
- CROSSWALK 16" WIDE LINE, 8' LONG, 24" SPACE



NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
LAND DEVELOPMENT | ENGINEERING DESIGN | CONSTRUCTION SERVICES  
 DBE | DAS | MBE | CMASCC CERTIFIED  
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ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETScape PHASE III  
 OLD ROUTE 7 & LAUREL HILL ROAD  
 BROOKFIELD, CONNECTICUT**

DESIGNED: Y.L.  
 DRAFTED: C.S.  
 CHECKED: Y.L.  
 APPROVED: P.A.R.  
 SCALE: AS NOTED  
 FC PROJECT NO.: 2019-0106  
 DATE: 3/26/2020  
 CAD: HW\_MSH\_2019\_0106\_SPM

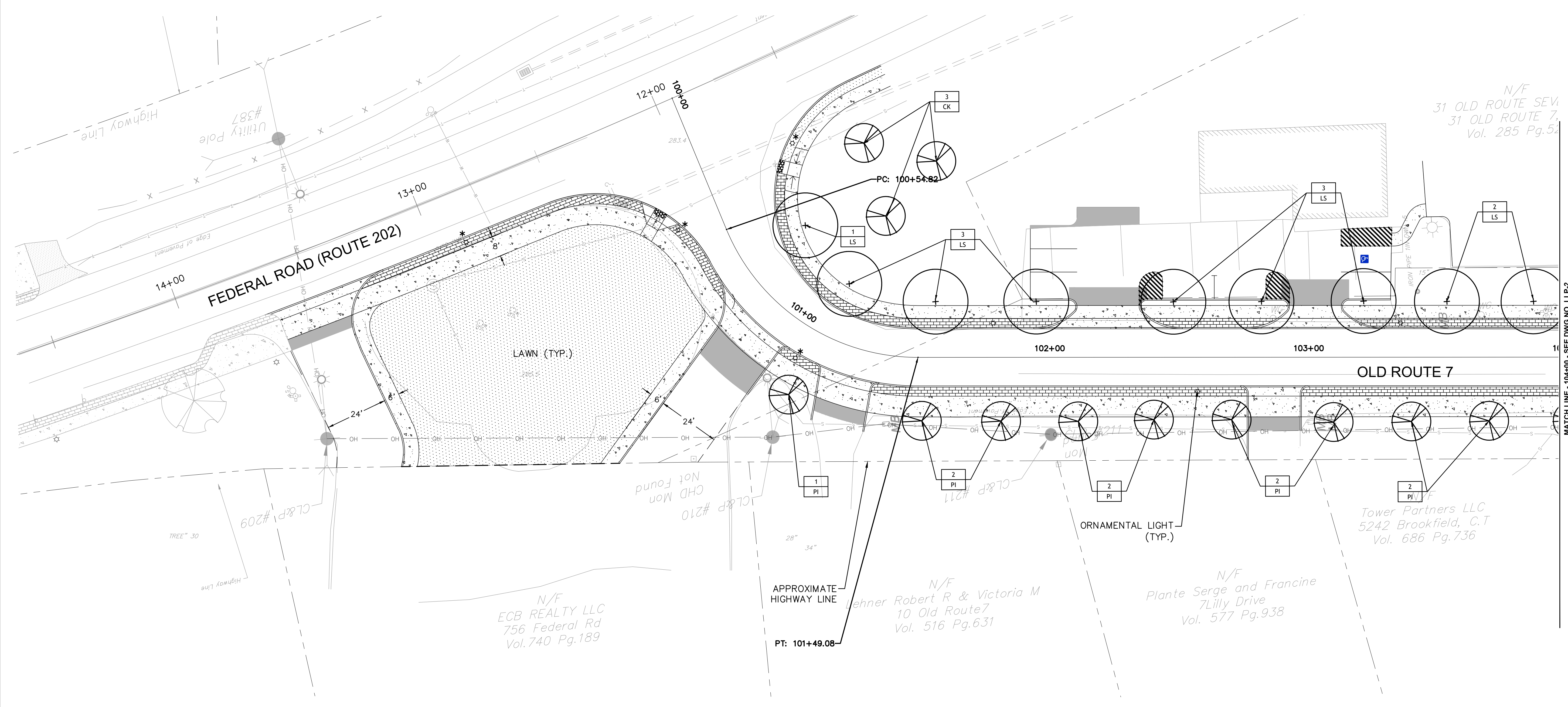
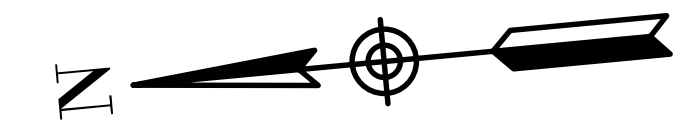
TITLE: SIGNAGE & PAVEMENT MARKING PLAN

DWG NO.: SPM-2

SHEET NO.:


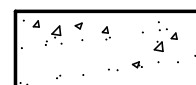
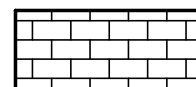







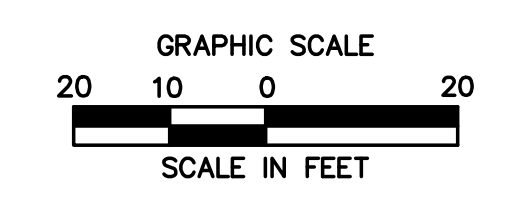


MATCH LINE - 104+00 - SEE DWG NO. LLP-2

**LEGEND**

-  BIT. CONCRETE
-  CONCRETE SIDEWALK / CONCRETE DRIVEWAY APRON
-  BRICK PAVERS
-  PROPOSED TREES
-  ORNAMENTAL LIGHT
-  ORNAMENTAL LIGHT WITHIN STATE R.O.W. TO HAVE BREAK AWAY SUPPORTS (SEE MDS-01)

PLANT LIST							
Qty.	Key	Name-Botanical/Common	Size at Maturity	Planted Size	Light Preference	Comments	Landscape Characteristics
<b>DECIDUOUS TREES</b>							
10	LS	Liquidambar styraciflua 'Moriane' Moriane Sweetgum	60' ht. 40' spd.	3 - 3-1/2"	Full Sun	B&B	Native, pyramidal to rounded neat outline, deep glossy green star shaped leaves, rich yellow-purple-red tones in fall, 1" brown winged distinctive fruit, excellent park and street tree.
<b>ORNAMENTAL TREES</b>							
3	CK	Cornus kousa Kousa Dogwood	25ht./spd	2 - 2-1/2" cal. Tree form	Full Sun Part Shade	B&B	White flowers June, red fruit summer. Resistant to anthracnose.
2	MS	Malus x 'Sutyzam (Sugar Tyme) Sugar Tyme Crabapple	18' ht. 15' spd.	2 - 2-1/2" cal.	Full Sun	B&B	Upright, oval white flowers, buds pale pink. Red 1/2" fruit. Pale pink buds open to fragrant, shiny white blossoms that may cover tree in Spring. Plentiful, small, persistent, bright red fruit produced
24	PI	Prunus incisa 'Okame' Okame Cherry	15-20' ht. 10-15' spd.	2 - 2-1/2" cal.	Full Sun Part Shade	B&B	Deep maroon buds open to clear pink flowers with red stamens in late April to early May. Upright growing. Small green leaves become red and yellow in Fall. Polished wine red bark.



N/F  
31 OLD ROUTE SEV.  
31 OLD ROUTE 7,  
Vol. 285 Pg.52

NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
DBE | DAS | MBE | CMASDC CERTIFIED  
CIVIL | GEOTECHNICAL  
SURVEY | ENVIRONMENTAL

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ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETSCAPE PHASE III  
OLD ROUTE 7 & LAUREL HILL ROAD  
BROOKFIELD, CONNECTICUT**

DESIGNED: Y.L.  
DRAFTED: C.S.  
CHECKED: Y.L.  
APPROVED: P.A.R.  
SCALE: AS NOTED  
FC PROJECT NO.: 2019-0106  
DATE: 3/26/2020  
CAD/HW\_MSH\_2019\_0106\_LS

TITLE:  
LANDSCAPING &  
LIGHTING PLAN

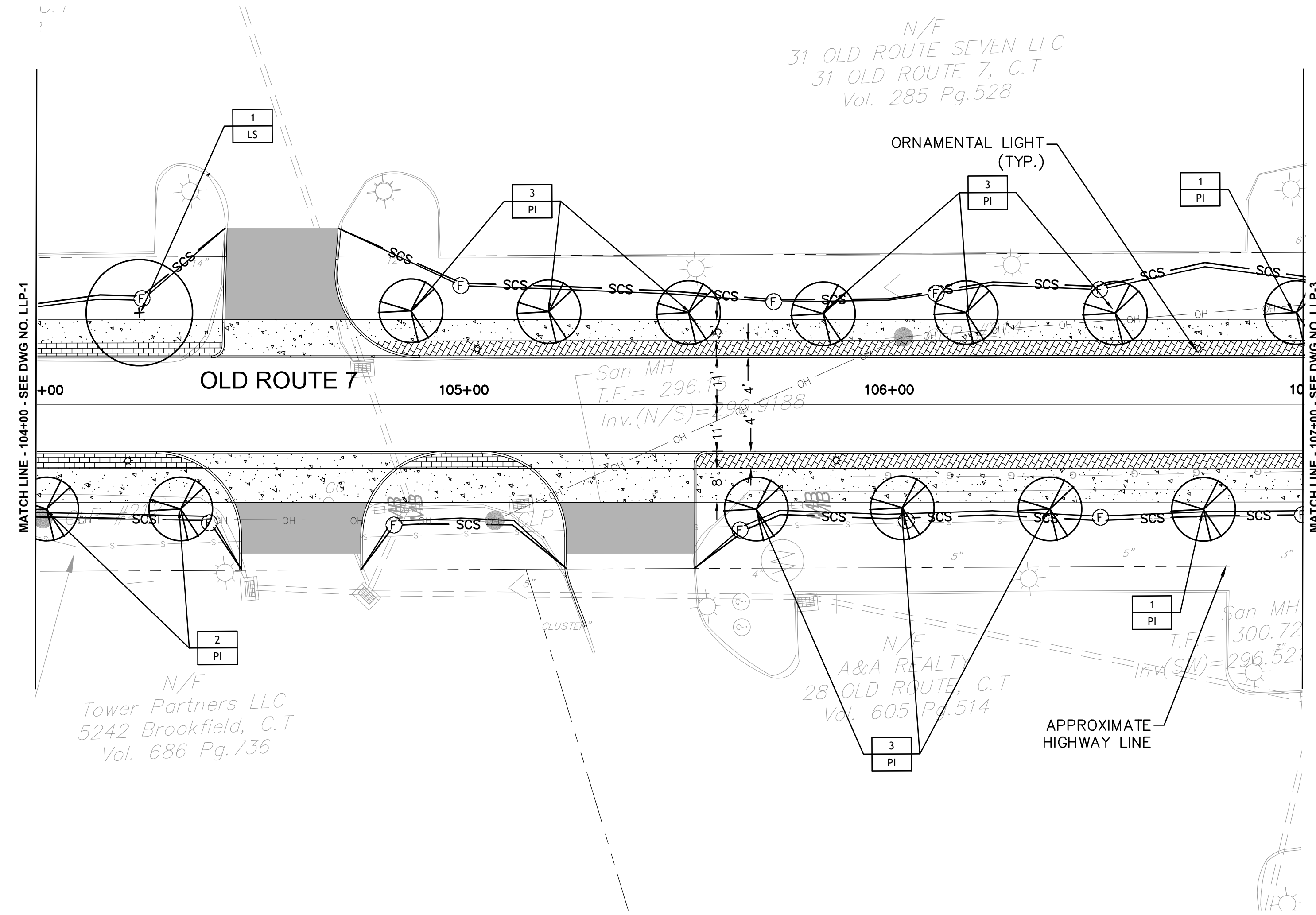
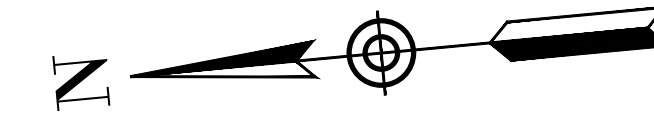
DWG NO.:  
LLP-1

SHEET NO.:


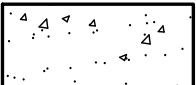
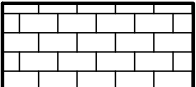
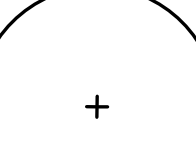
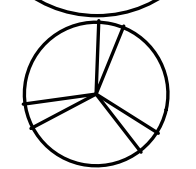
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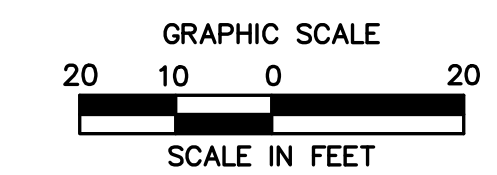
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Freeman Companies, LLC - C:\Users\CSURR\OneDrive\Temp\publish\_1884\HW\_MSH\_2019\_0106\_LS.dwg Jan 26, 2021 - 4:37pm Plotted By: ceurremont



**LEGEND**

-  BIT. CONCRETE
-  CONCRETE SIDEWALK / CONCRETE DRIVEWAY APRON
-  BRICK PAVERS
-  PROPOSED TREES
-  ORNAMENTAL LIGHT



NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
 LAND DEVELOPMENT | ENGINEERING DESIGN | CONSTRUCTION SERVICES  
 DBE | DAS | MBE | CMASDC CERTIFIED  
 CIVIL | GEOTECHNICAL  
 SURVEY | ENVIRONMENTAL

FREEMAN COMPANIES, LLC  
 36 JOHN STREET  
 HARTFORD, CT 06106  
 WWW.FREEMANCO.COM  
 TEL: (860) 251-9550  
 TOLL FREE: (800) 966-5141  
 FAX: (860) 966-7161

ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETSCAPE PHASE III**  
**OLD ROUTE 7 & LAUREL HILL ROAD**  
 BROOKFIELD, CONNECTICUT

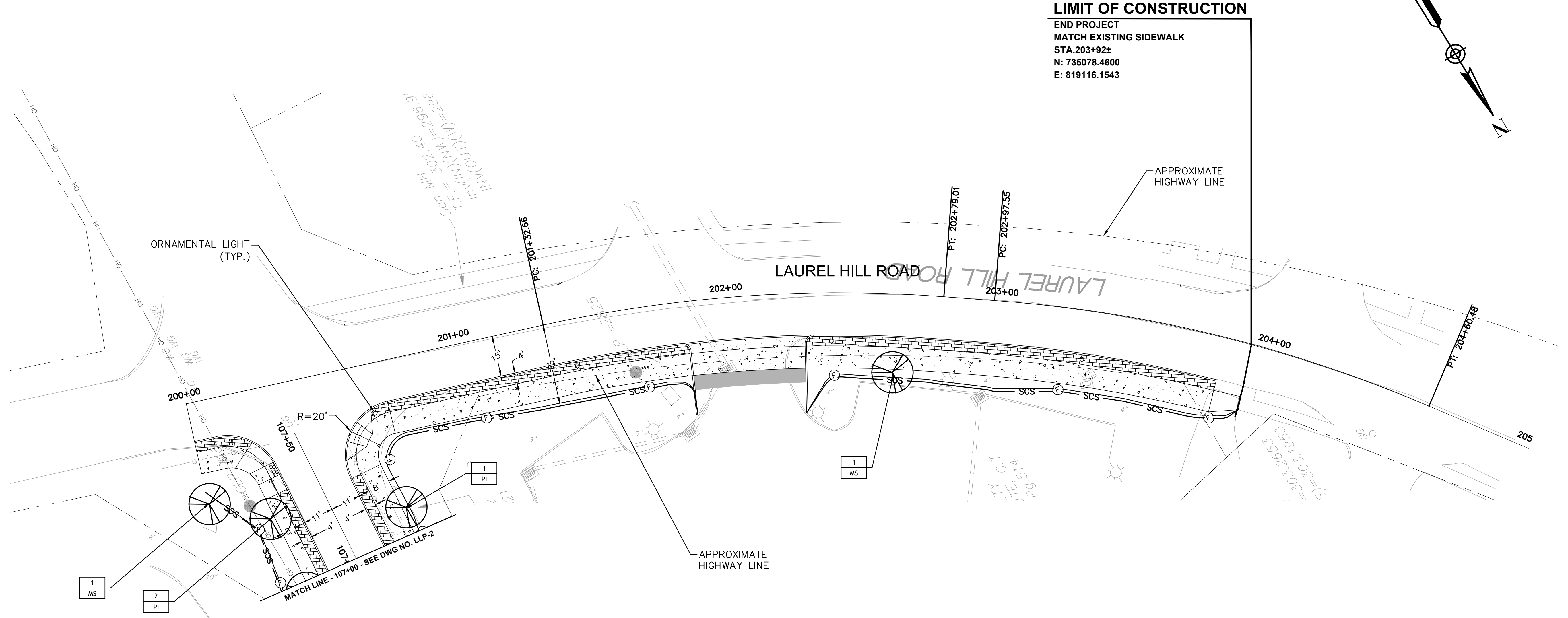
DESIGNED: Y.L.  
 DRAFTED: C.S.  
 CHECKED: Y.L.  
 APPROVED: P.A.R.  
 SCALE: AS NOTED  
 FC PROJECT NO.: 2019-0106  
 DATE: 3/26/2020  
 CAD: HW\_MSH\_2019\_0106\_LS

TITLE: LANDSCAPING & LIGHTING PLAN

DWG NO.: LLP-2

SHEET NO.:



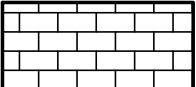
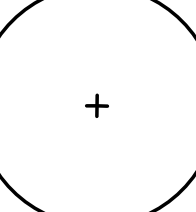

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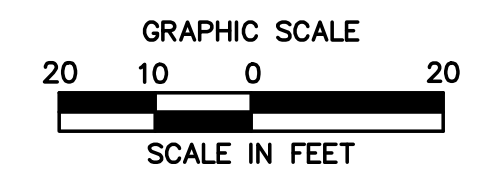


**LIMIT OF CONSTRUCTION**

END PROJECT  
 MATCH EXISTING SIDEWALK  
 STA. 203+92±  
 N: 735078.4600  
 E: 819116.1543

**LEGEND**

-  BIT. CONCRETE
-  CONCRETE SIDEWALK / CONCRETE DRIVEWAY APRON
-  BRICK PAVERS
-  PROPOSED TREES
-  ORNAMENTAL LIGHT



NO.	DATE	DESCRIPTION	REVISIONS

**FREEMAN COMPANIES**  
 DBE | DAS | MBE | CMASCC CERTIFIED  
 CIVIL | GEOTECHNICAL  
 SURVEY | ENVIRONMENTAL

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 HARTFORD, CT 06106  
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ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETSCAPE PHASE III  
 OLD ROUTE 7 & LAUREL HILL ROAD**

BROOKFIELD, CONNECTICUT

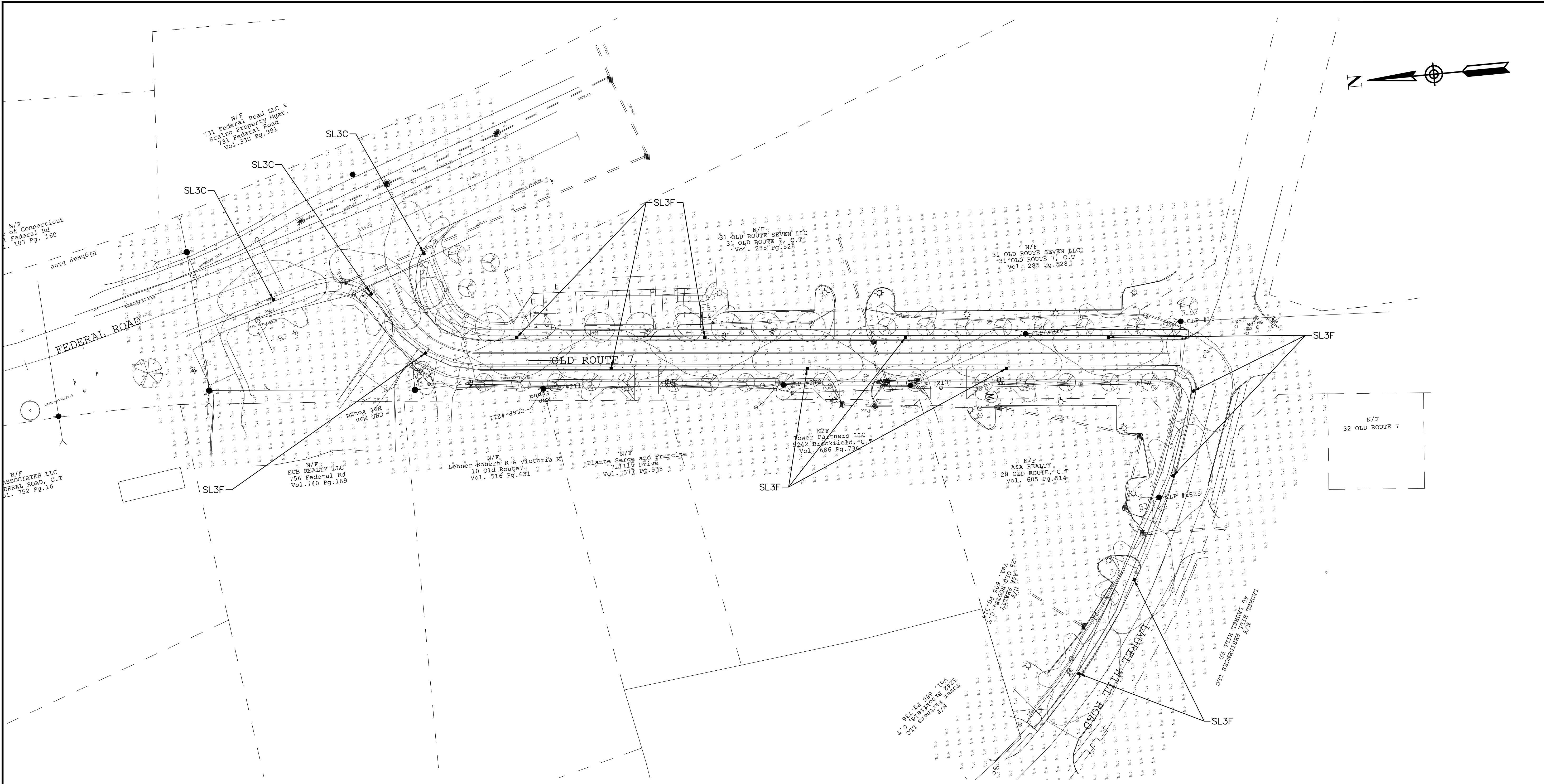
DESIGNED: Y.L.  
 DRAFTED: C.S.  
 CHECKED: Y.L.  
 APPROVED: P.A.R.  
 SCALE: AS NOTED  
 FC PROJECT NO.: 2019-0106  
 DATE: 3/26/2020  
 CAD: HW\_MSH\_2019\_0106\_LS

TITLE:  
 LANDSCAPING &  
 LIGHTING PLAN

DWG NO.:  
 LLP-3

SHEET NO.:

FREEMAN COMPANIES, LLC - R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MSH\_2019\_0106\_LP.dwg Mar 17, 2021 - 3:14pm Plotted By: cauprenant



JOB NAME: TOWN OF BROOKFIELD STREETScape - PHASE III  
 APEX LIGHTING SOLUTIONS  
 WORKPLANE/CALC PLANE: AT FINISH GRADE  
 MOUNTING HEIGHT: SEE LUMINAIRE SCHEDULE  
 APPS: LED  
 SALES: SP

Luminaire Schedule							
Qty	Label	Arrangement	Lumens	Input Watts	LLF	BUG Rating	Description
3	SL3C	SINGLE	8578	94.6	0.757	B3-U3-G3	STERNBERG 6130CLEd/PT/6212T5-4.188/FDRB/6ARC35T3/MDL03/GFI-LPIUC/DBA/SSPA/PEC/FHC/CSA/BKT
12	SL3F	SINGLE	8578	94.6	0.757	B3-U3-G3	STERNBERG 6130CLEd/PT/6212T5-4.188/FDRB/6ARC35T3/MDL03/GFI-LPIUC/DBA-MOD/SSPA-MOD/PEC/FHC/CSA/BKT

Calculation Summary						
Label	Grid Z	Avg	Max	Min	Avg/Min	Max/Min
SITE CALC	0	0.37	3.4	0.0	N.A.	N.A.
LAUREL HILL ROAD		1.34	3.1	0.2	6.70	15.50
LAUREL HILL ROAD SIDEWALK		0.71	1.5	0.2	3.55	7.50
OLD ROUTE 7		1.74	3.3	0.7	2.49	4.71
PLAZA WALKWAY		1.23	2.8	0.2	6.15	14.00
SIDEWALK		0.78	1.9	0.3	2.60	6.33

NOTE: SL3F CONFIGURATIONS WILL HAVE THE POLE DRILLED TO ACCEPT BANNER AND PLANTER ARMS AND BE SUPPLIED WITH PLUGS.



**GENERAL DISCLAIMER:**  
 Calculations have been performed according to IES standards and good practice. Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting calculations. If the real environment conditions do not match the input data, differences will occur between measured values and calculated values.  
 \* LLF Determined Using Current Published Lamp Data  
**NOTE TO REVIEWER:**  
 Total Light Loss Factor (LLF) applied at time of design is determined by applying the Lamp Lumen Depreciation (LLD) from current lamp manufacturer's catalog, a Luminaire Dirt Depreciation Factor (LDD) based on IES recommended values and a Ballast Factor (BF) from current ballast specification sheets. Application of an incorrect Light Loss Factor (LLF) will result in forecasts of performance that will not accurately depict actual results.  
 For proper comparison of photometric layouts, it is essential that you insist all designers use correct Light Loss Factors.

**FREEMAN COMPANIES, LLC**  
AN ASSOCIATE OF FREEMAN GROUP CORPORATION SERVICES  
 DBE | DAS | MBE | CMAS/C CERTIFIED  
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**FREEMAN COMPANIES, LLC**  
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ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETScape PHASE III**  
**OLD ROUTE 7 & LAUREL HILL ROAD**

**BROOKFIELD, CONNECTICUT**

NO.	DATE	DESCRIPTION / REVISIONS

DESIGNED: Y.L.  
 DRAFTED: C.S.  
 CHECKED: Y.L.  
 APPROVED: P.A.R.  
 SCALE: NOT NOTED

FC PROJECT NO.: 2019-0106  
 DATE: 3/26/2020  
 CAD/HW\_MSH\_2019\_0106\_LP

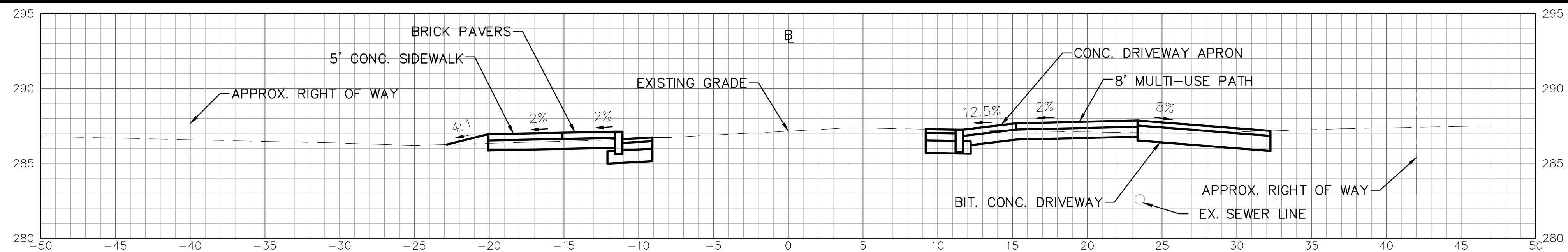
TITLE: LIGHTING  
 PHOTOMETRIC  
 PLAN

DWG NO.: LP-1

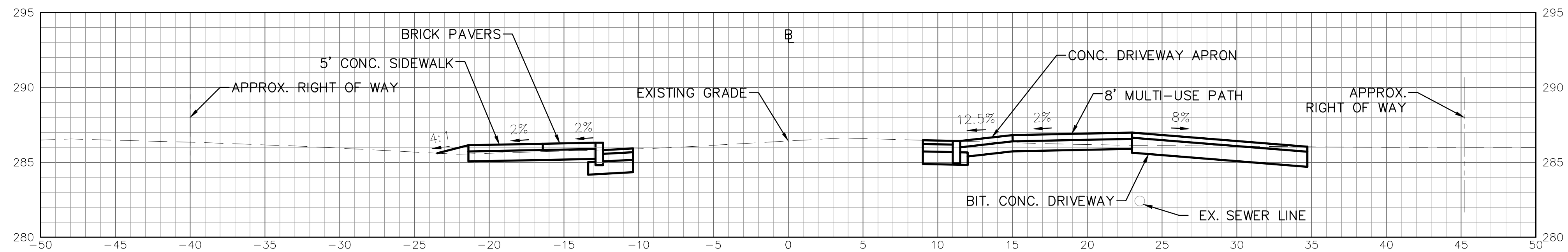
SHEET NO.:

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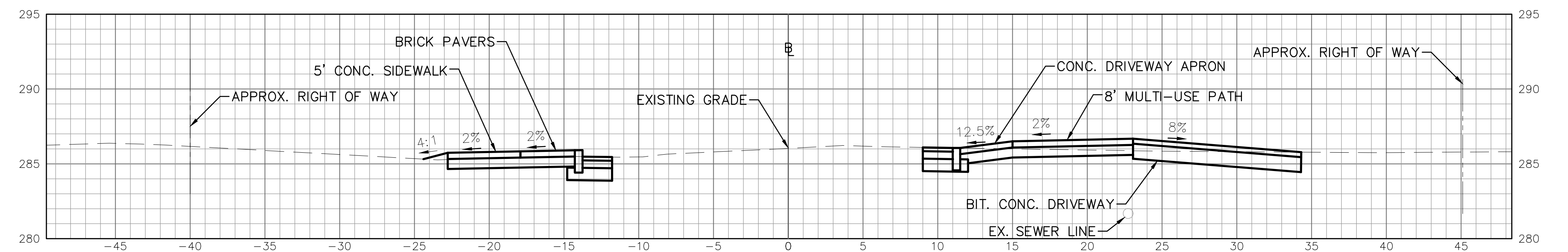
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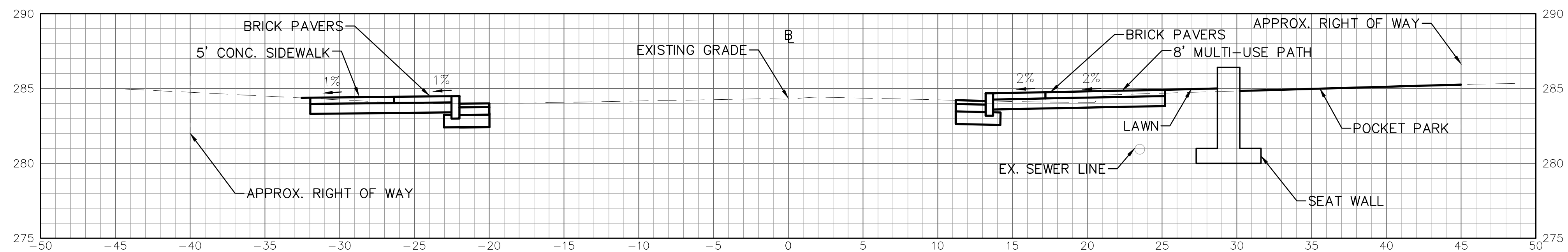
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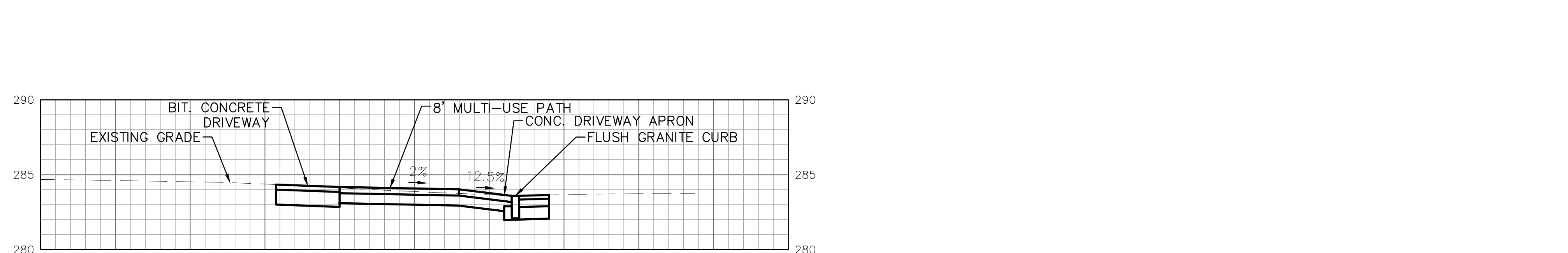
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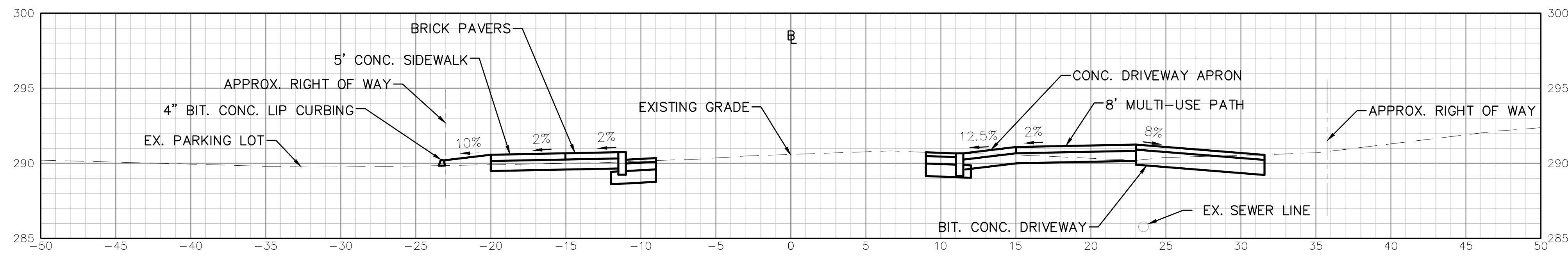
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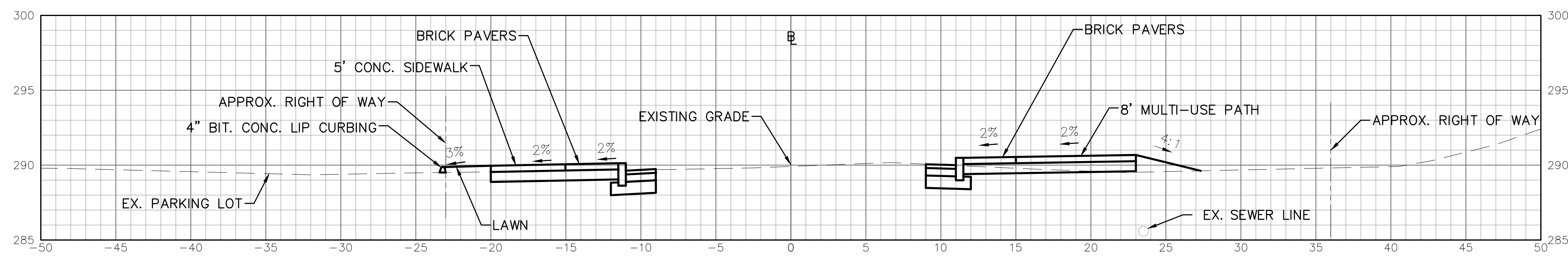
13+50

NO.	DATE	DESCRIPTION	REVISIONS
<b>FREEMAN COMPANIES</b> <small>LAND DEVELOPMENT   ENGINEERING DESIGN   CONSTRUCTION SERVICES</small> <small>DBE   DAS   MBE   CM/DM/CM@R   GMA/CS/CERTIFIED</small> <small>CIVIL   GEOTECHNICAL</small> <small>SURVEY   ENVIRONMENTAL</small>			
FREEMAN COMPANIES, LLC 36 JOHN STREET HARTFORD, CT 06106 WWW.FREEMANCO.COM TEL: (860) 251-9550 TOLL FREE: (800) 664-5141 FAX: (860) 886-7161			
ELEVATE YOUR EXPECTATIONS			
<b>BROOKFIELD STREETScape PHASE III</b> <b>OLD ROUTE 7 &amp; LAUREL HILL ROAD</b> BROOKFIELD, CONNECTICUT			
DESIGNED:	Y.L.		
DRAFTED:	C.S.		
CHECKED:	Y.L.		
APPROVED:	P.A.R.		
SCALE:	AS NOTED		
FC PROJECT NO.:	2019-0106		
DATE:	3/26/2020		
CAD/HW_MSH_2019_0106_CS			
TITLE:			
CROSS SECTIONS			
DWG NO.:			
XSC-1			
SHEET NO.:			

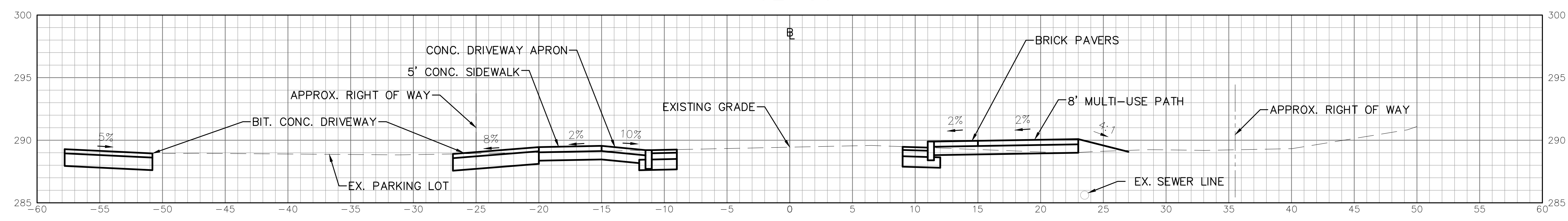
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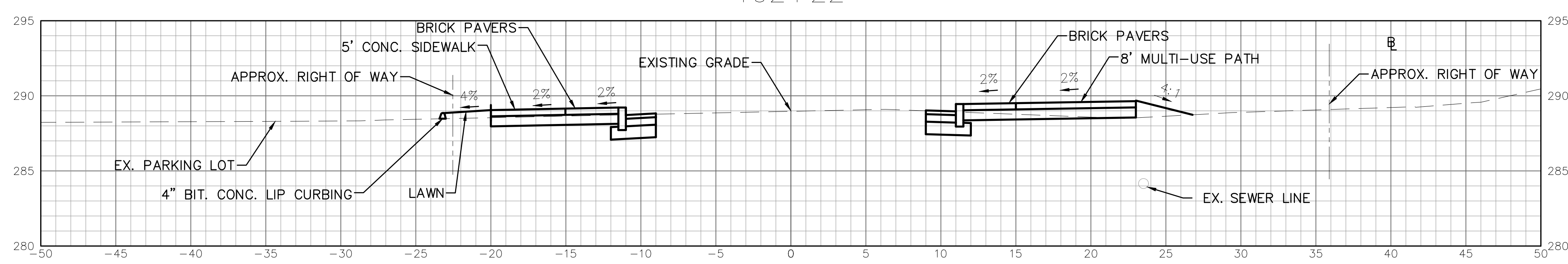
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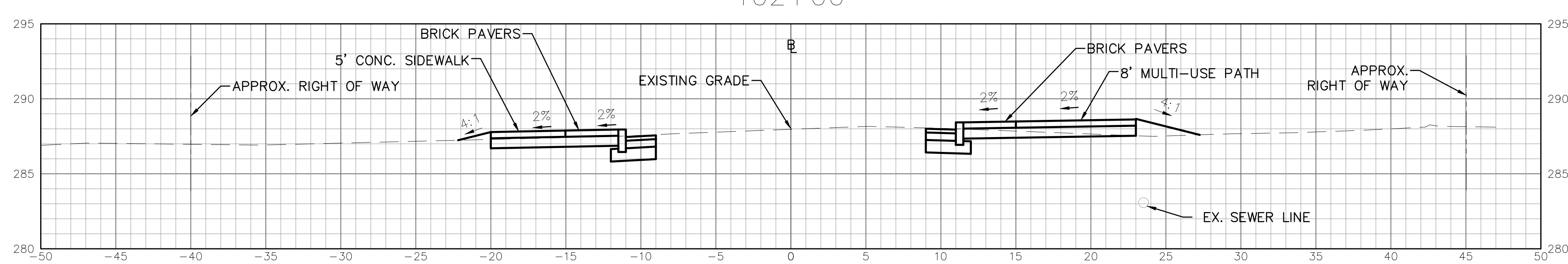
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102+22



102+00



101+50

NO.	DATE	DESCRIPTION	REVISIONS

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 CIVIL | GEOTECHNICAL  
 SURVEY | ENVIRONMENTAL

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 HARTFORD, CT 06106  
 WWW.FREEMANCS.COM  
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 TOLL FREE: (800) 968-5141  
 FAX: (860) 968-7161

ELEVATE YOUR EXPECTATIONS

**BROOKFIELD STREETScape PHASE III  
 OLD ROUTE 7 & LAUREL HILL ROAD  
 BROOKFIELD, CONNECTICUT**

DESIGNED:	Y.L.
DRAFTED:	C.S.
CHECKED:	Y.L.
APPROVED:	P.A.R.
SCALE:	AS NOTED
FC PROJECT NO.:	2019-0106
DATE:	3/26/2020
CAD/HW_MSH_2019_0106_CS	

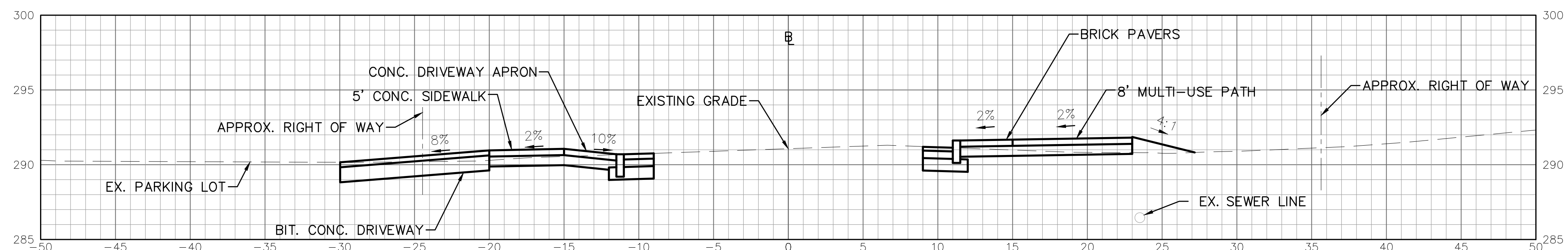
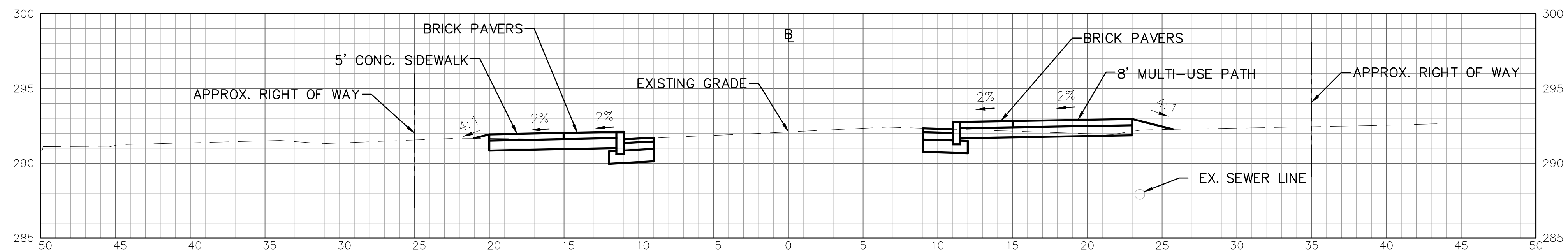
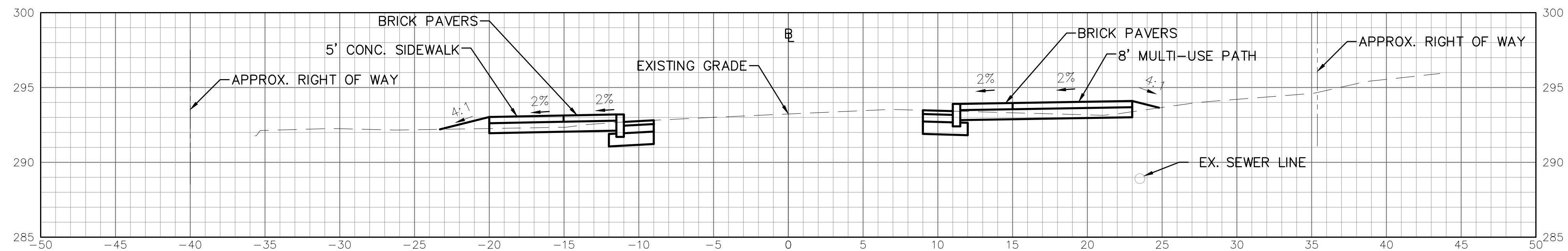
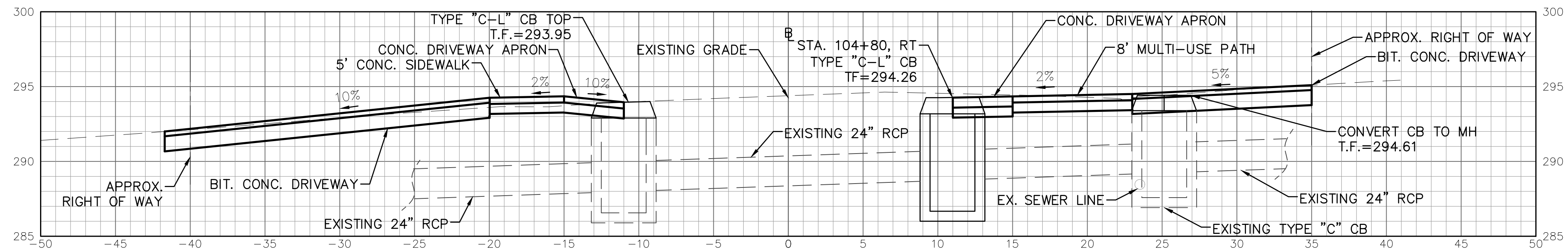
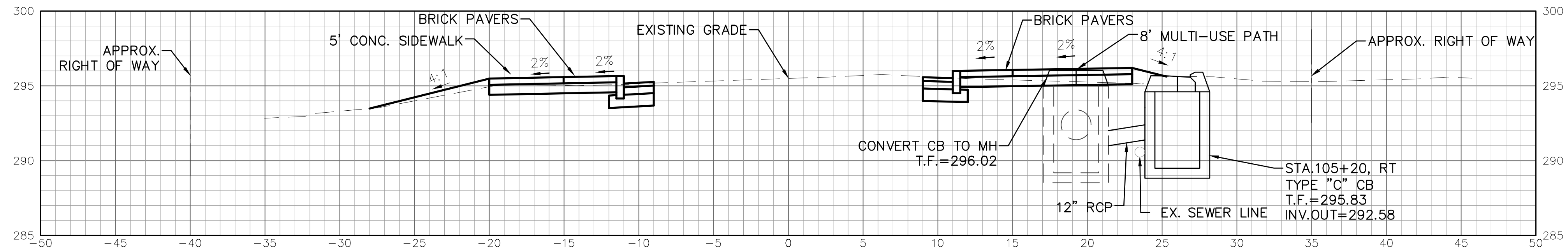
TITLE:  
CROSS SECTIONS

DWG NO.:  
XSC-2

SHEET NO.:

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NO.	DATE	DESCRIPTION	REVISIONS

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LAND DEVELOPMENT | ENGINEERING DESIGN | CONSTRUCTION SERVICES  
 DBE | DAS | MBE | CMASDC CERTIFIED  
 CIVIL | GEOTECHNICAL  
 SURVEY | ENVIRONMENTAL

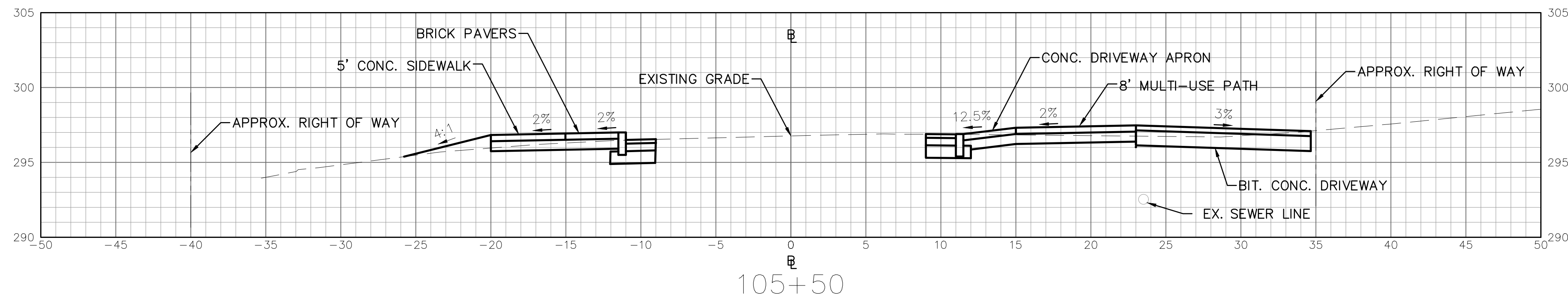
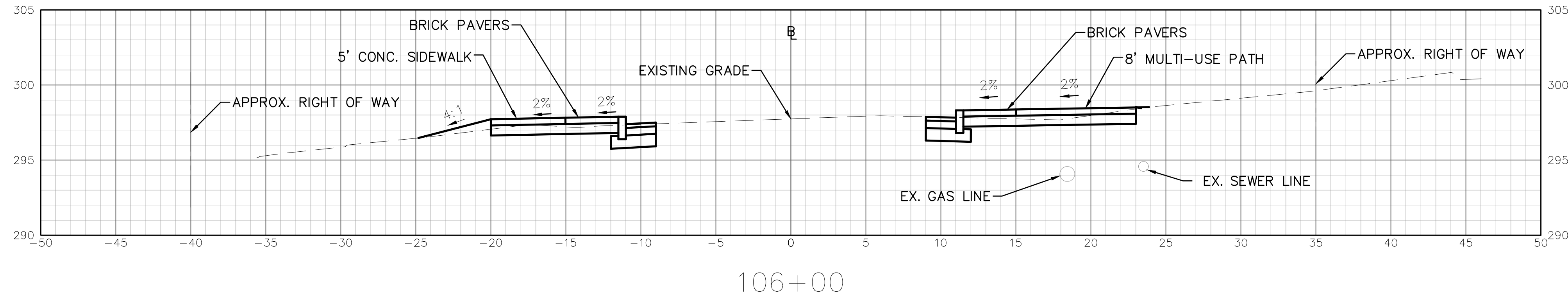
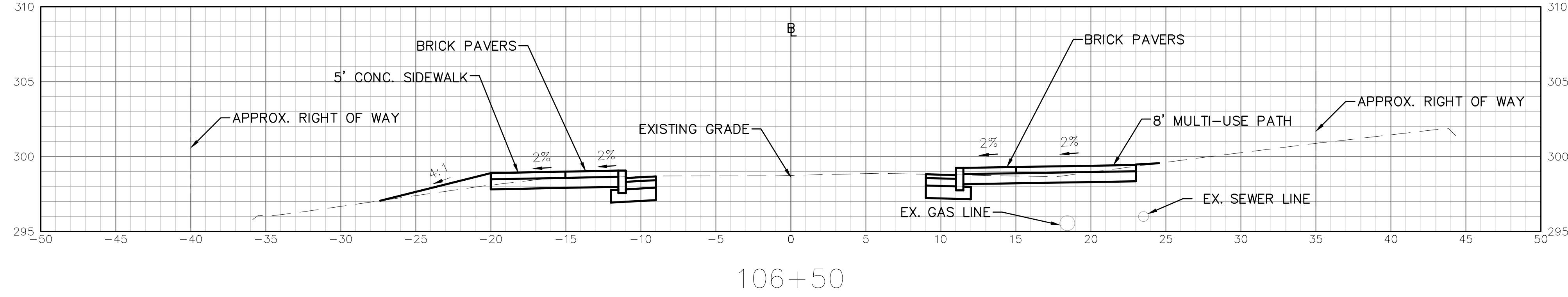
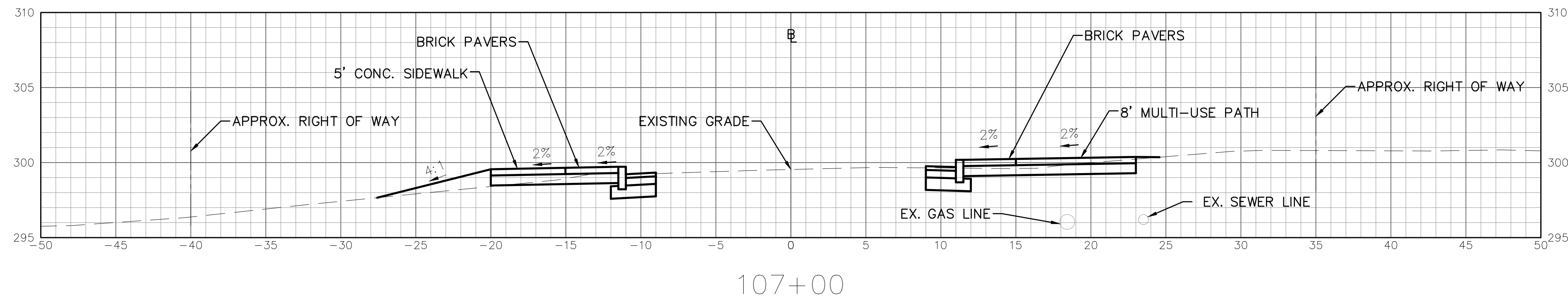
FREEMAN COMPANIES, LLC  
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 HARTFORD, CT 06106  
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**BROOKFIELD STREETScape PHASE III  
 OLD ROUTE 7 & LAUREL HILL ROAD  
 BROOKFIELD, CONNECTICUT**

DESIGNED:	Y.L.
DRAFTED:	C.S.
CHECKED:	Y.L.
APPROVED:	P.A.R.
SCALE:	AS NOTED
FC PROJECT NO.:	2019-0106
DATE:	3/26/2020
CAD:HW_MSH_2019_0106_CS	
TITLE: CROSS SECTIONS	
DWG NO.: XSC-3	
SHEET NO.:	

FREEMAN COMPANIES, LLC - R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MSH\_2019\_0106\_CS.dwg Jan 26, 2021 - 4:38pm Plotted By: ceaprent



NO.	DATE	DESCRIPTION	REVISIONS

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**BROOKFIELD STREETScape PHASE III  
 OLD ROUTE 7 & LAUREL HILL ROAD  
 BROOKFIELD, CONNECTICUT**

DESIGNED: Y.L.  
 DRAFTED: C.S.  
 CHECKED: Y.L.  
 APPROVED: P.A.R.  
 SCALE: AS NOTED  
 FC PROJECT NO.: 2019-0106  
 DATE: 3/26/2020  
 CAD: HW\_MSH\_2019\_0106\_CS

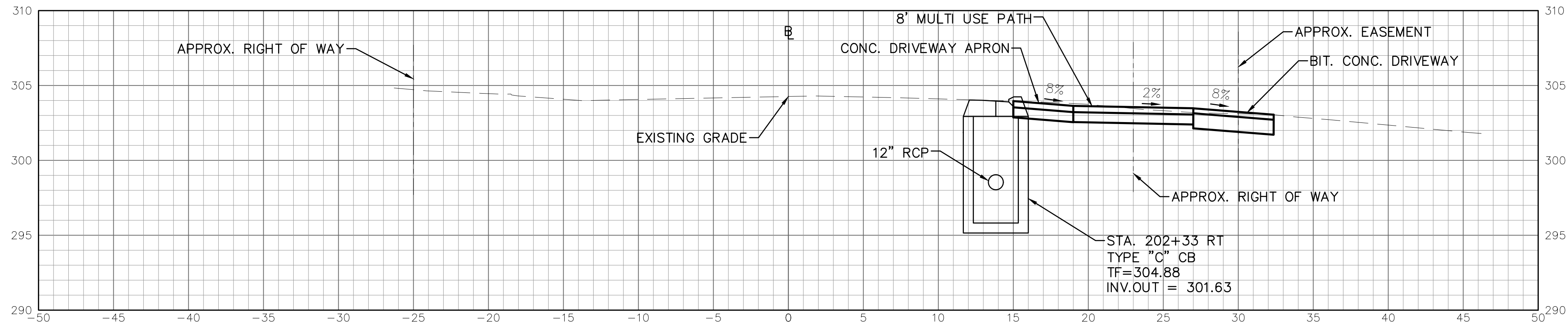
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DWG NO.:  
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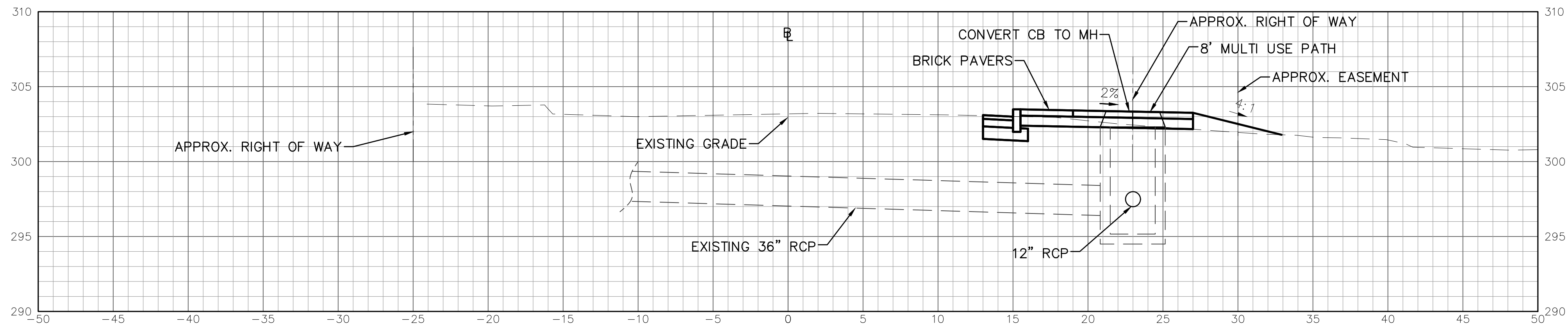
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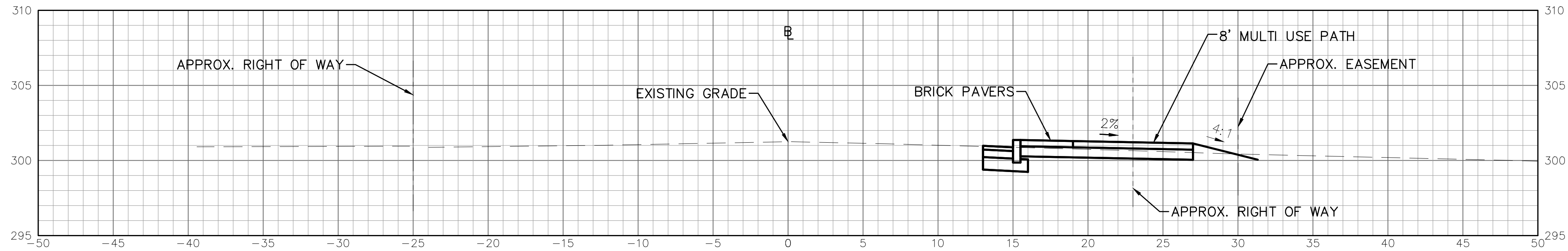
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201+50



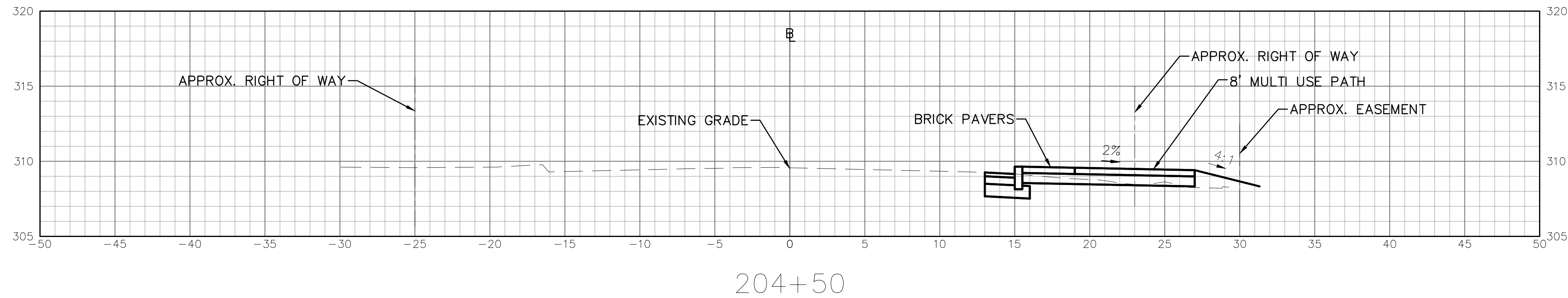
201+00



200+50

	DESCRIPTION REVISIONS
	NO. DATE
<b>FREEMAN COMPANIES</b> <small>LAND DEVELOPMENT   ENGINEERING DESIGN   CONSTRUCTION SERVICES          DBE   DAS   MBE   GANISSC CERTIFIED          CIVIL   GEOTECHNICAL          SURVEY   ENVIRONMENTAL</small>	
<b>FREEMAN COMPANIES, LLC</b> <small>36 JOHN STREET          HARTFORD, CT 06106          WWW.FREEMANCS.COM          TEL: (860) 251-9550          TOLL FREE: (800) 664-5141          FAX: (860) 666-7161</small>	
ELEVATE YOUR EXPECTATIONS	
<b>BROOKFIELD STREETScape PHASE III</b> <b>OLD ROUTE 7 &amp; LAUREL HILL ROAD</b>  BROOKFIELD, CONNECTICUT	
DESIGNED: Y.L.	C.S.
DRAFTED: C.S.	Y.L.
CHECKED: Y.L.	P.A.R.
APPROVED: P.A.R.	AS NOTED
SCALE: AS NOTED	FC PROJECT NO.: 2019-0106
DATE: 3/26/2020	CAD: HW_MSH_2019_0106_CS
TITLE: CROSS SECTIONS	
DWG NO.: XSC-5	
SHEET NO.:	

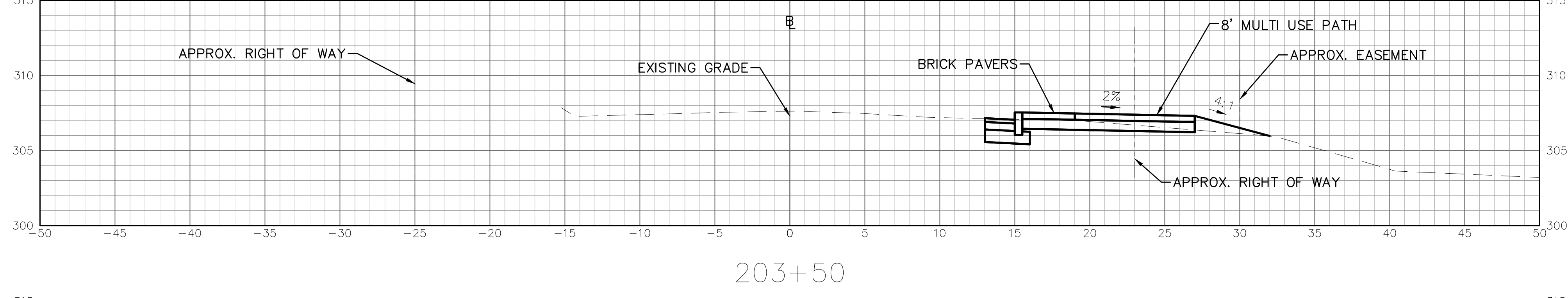
FREEMAN COMPANIES, LLC . R:\2019\2019-0106 Brookfield Streetscape Phase 3\DWG\HW\_MSH\_2019\_0106\_CS.dwg Jan 26, 2021 - 4:38pm Plotted By: ceapremont



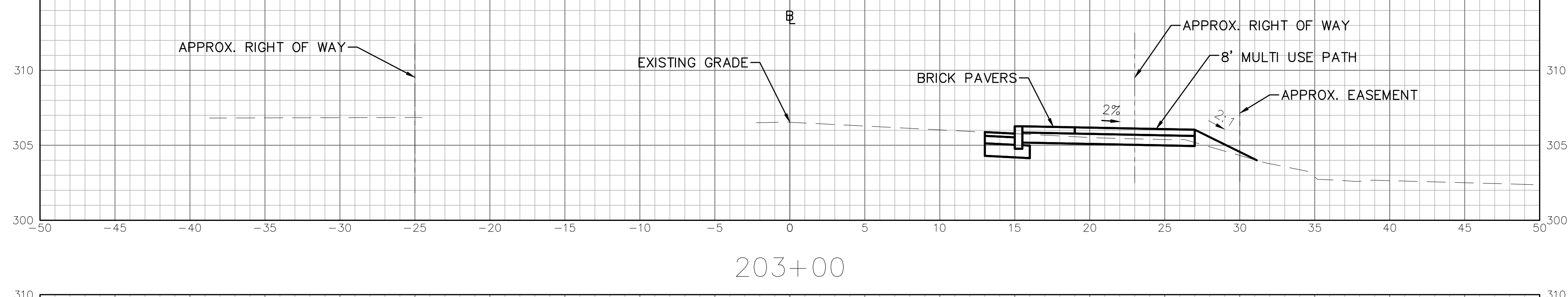
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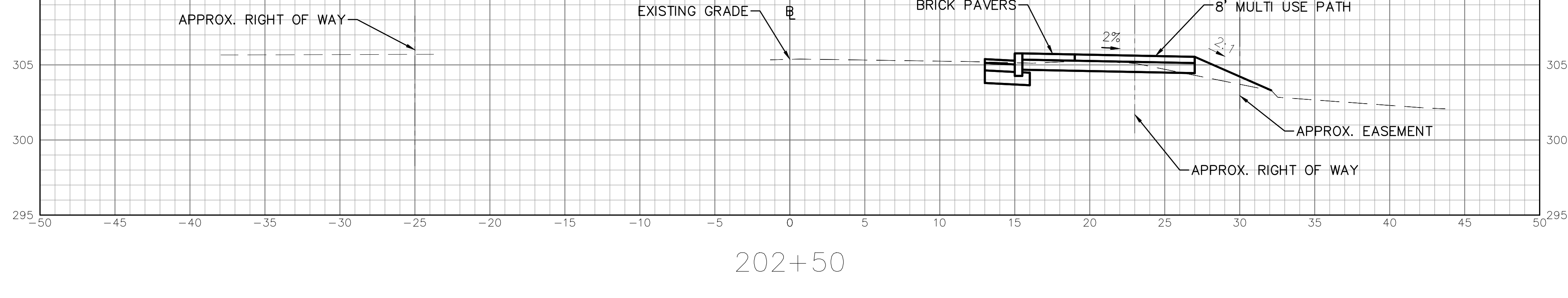
204+00



203+50



203+00



202+50

NO.	DATE	DESCRIPTION	REVISIONS

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LAND DEVELOPMENT | ENGINEERING DESIGN | CONSTRUCTION SERVICES  
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 OLD ROUTE 7 & LAUREL HILL ROAD  
 BROOKFIELD, CONNECTICUT**

DESIGNED:	Y.L.
DRAFTED:	C.S.
CHECKED:	Y.L.
APPROVED:	P.A.R.
SCALE:	AS NOTED
FC PROJECT NO.:	2019-0106
DATE:	3/26/2020
CAD/HW_MSH_2019_0106_CS	

TITLE:  
CROSS SECTIONS

DWG NO.:  
XSC-6

SHEET NO.:

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

\*\*REVISED OR ADDED

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-506_01	ENDWALLS, SLOPE PAVED INLETS AND OUTLETS	1-26-12
	HW-506_02	TYPE "D-G" & "L" ENDWALLS	7-13-12
	HW-506_03	ENDWALLS FOR PIPE ARCH	9-18-09
	HW-507_01	TYPE "C", "C-L" & DROP INLET CATCH BASIN	7-24-13
	HW-507_02	TYPE "C", "C-L" & DOUBLE GRATE TYPE - I	7-24-13
	HW-507_03	TYPE "C", "C-L" & DOUBLE GRATE TYPE - II	7-24-13
	HW-507_04	TYPE "C", "C-L" & ROUND PRECAST CONCRETE CB	11-10-11
	HW-507_05	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - I	11-10-11
	HW-507_06	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - II	11-10-11
	HW-507_07	TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS	11-10-11
	HW-507_08	CATCH BASIN FRAMES AND GRATES	9-18-09
	HW-507_09	HEAVY DUTY LOCK DOWN TOPS	7-12-12
	HW-507_10	MANHOLE - FRAME & COVER	7-24-13
	HW-651_01	C.C.M. PIPE INSTALLATIONS IN FILL & ROCK SLOPES & PIPE TRENCH DETAIL	7-24-13
	HW-651_02	SLOTTED DRAIN PIPE 12"- 15"-18"-24"-30" (305-381-457-610-762)	7-12-12
	HW-652_01	PIPE ENDS	7-24-13
	HW-751_01	UNDERDRAINS AND UNDERDRAIN OUTLETS	7-12-12
	HW-803_01a	PAVED APRONS	6-07-17
	HW-803_01b	PAVED DITCHES AND PAVED CHANNELS	6-07-17
	HW-811_01	CONCRETE CURBING	6-07-17
	HW-813_01	GRANITE STONE TRANSITION CURBING	7-24-13
	HW-813_02	STONE CURBING	6-07-17
	HW-815_01	BITUMINOUS CONCRETE CURBING	6-07-17
	HW-821_01a	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_01b	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
	HW-821_01c	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	1-26-12
	HW-821_02a	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1	7-24-13
	HW-821_02b	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2	7-24-13
	HW-821_03a	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_03b	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
	HW-821_03c	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	10-18-10
	HW-821_03d	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	10-18-10
	HW-821_03e	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) F-SHAPE	7-24-13

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-821_04a	MERRITT PARKWAY NARROW MEDIAN BARRIER	6-09-11
	HW-821_04b	MERRITT PARKWAY - 2' (610) WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	7-24-13
	HW-821_05a	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_05b	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 2	1-26-12
	HW-821_06	54" (1372) VERTICAL SHAPE BARRIER	2-06-12
	HW-821_07	MISCELLANEOUS DETAILS FOR BARRIER TRANSITIONS	7-12-12
	HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	7-24-13
	HW-905_01	STONE WALL, FARM WALL AND WIRE FENCES	6-07-17
	HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE	6-09-11
	HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	6-09-11
	HW-910_03	METAL BEAM RAIL (TYPE MD-B 350)	6-09-11
	HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	6-09-11
	HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	7-24-13
	HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	6-09-11
	HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	6-09-11
	HW-910_08	R-B 350 BRIDGE ATTACHMENT TRAILING END	6-09-11
	HW-910_09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	1-26-12
	HW-910_09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	7-25-12
	HW-910_10	METAL BEAM RAIL 8" (203) X 6" (152) BOX BEAM	7-24-13
	HW-910_11	CURVED GUIDERAIL TREATMENT DETAIL	7-25-12
	HW-910_12a	MERRITT PARKWAY GUIDERAIL ATTACHMENT - SYSTEM 2 & 3	7-24-13
	HW-910_12b	MERRITT PARKWAY GUIDERAIL	7-24-13
	HW-910_12c	MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENTS	7-24-13
	HW-910_12d	MERRITT PARKWAY MEDIAN GUIDERAIL AND END ANCHOR	6-09-11
	HW-910_13a	THRIE-BEAM METAL BEAM RAIL HARDWARE	7-24-13
	HW-910_13b	THRIE-BEAM TRANSITIONS	7-24-13
	HW-910_14a	THRIE-BEAM 350 BRIDGE ATTACHMENT	6-09-11
	HW-910_14b	THRIE-BEAM 350 GUIDERAIL TRANSITION TO R-B 350 GUIDERAIL	6-09-11
	HW-910_15	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	6-09-11
	HW-910_16	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	6-09-11
	HW-910_17	R-B TERMINAL SECTION	7-24-13
	HW-910_18	METAL BEAM RAIL (TYPE MD-I)	10-18-10
	HW-910_19a	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE I	7-24-13

Filename: CTDOT-HIGHWAY-STD (9-13-17 to be poMod)(1)IdgrHW-INX.1

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

\*\*REVISED OR ADDED

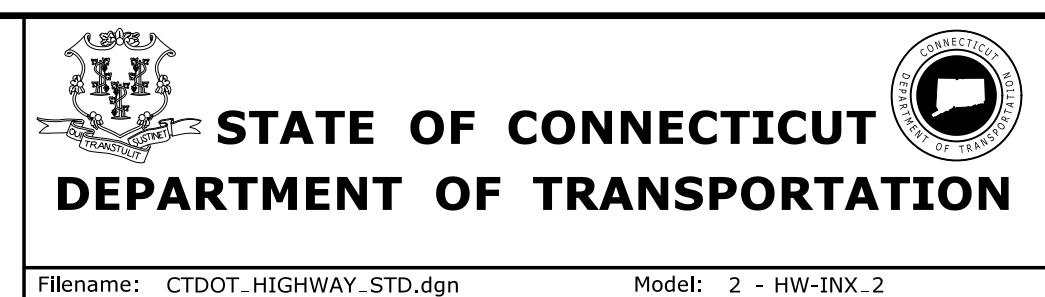
√*	SHEET NO.	TITLE	APPROVAL DATE**	√*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-910.19b	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE II	7-24-13				
	HW-910.19c	METAL BEAM RAIL (MODIFIED TYPE R-I) SYSTEMS 2 AND 3	7-24-13				
	HW-910.20	MASH W-BEAM HARDWARE	1-05-18				
	HW-910.21	METAL BEAM RAIL ( R-B MASH ) GUIDERAIL	1-05-18				
	HW-910.22	METAL BEAM RAIL ( MD-B MASH) GUIDERAIL	1-05-18				
	HW-910.23	METAL BEAM RAIL ( R-B MASH ) HALF AND QUARTER POST SPACING	1-05-18				
	HW-910.24	METAL BEAM RAIL SPAN SECTION TYPES II AND III	1-05-18				
	HW-910.25	METAL BEAM RAIL TRANSITION 350 TO MASH	1-05-18				
	HW-911.01	R-B END ANCHORAGE TYPE I AND II	1-05-18				
	HW-911.02	MD-B END ANCHORAGE TYPE I	1-05-18				
	HW-911.03	ANCHOR IN EARTH CUT SLOPE & ANCHOR IN ROCK CUT SLOPE	10-18-10				
	HW-911.05	MERRITT PARKWAY GUIDERAIL END ANCHORS	7-24-13				
	HW-913.01	CHAIN LINK FENCE	7-12-12				
	HW-918.01a	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 1	7-24-13				
	HW-918.01b	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 2	1-26-12				
	HW-918.01c	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 3	7-24-13				
	HW-921.01	DRIVEWAY RAMPS AND SIDEWALKS	6-07-17				
	HW-949.01	PLANTING DETAILS FOR TREES	7-12-12				
	HW-949.02	PLANTING DETAILS FOR SHRUBS	7-12-12				
	HW-1800.01	GRADING PLAN FOR TYPE B IMPACT ATTENUATION SYSTEM (FLARED)	6-20-11				
	HW-1800.02	GRADING PLAN FOR TYPE B IMPACT ATTENUATION SYSTEM (MEDIAN/GORE)	6-09-11				
	HW-1800.03	TYPE B IMPACT ATTENUATION SYSTEM (TANGENTIAL)	1-05-18				

REV.	DATE	REVISION DESCRIPTION
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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: 1/5/2018

NOT TO SCALE



CTDOT  
STANDARD SHEET

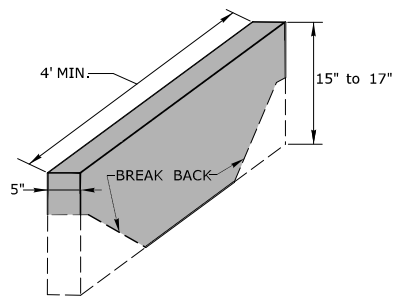
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

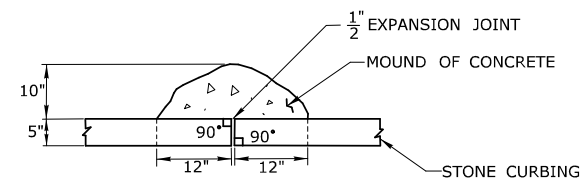
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STANDARD SHEET INDEX

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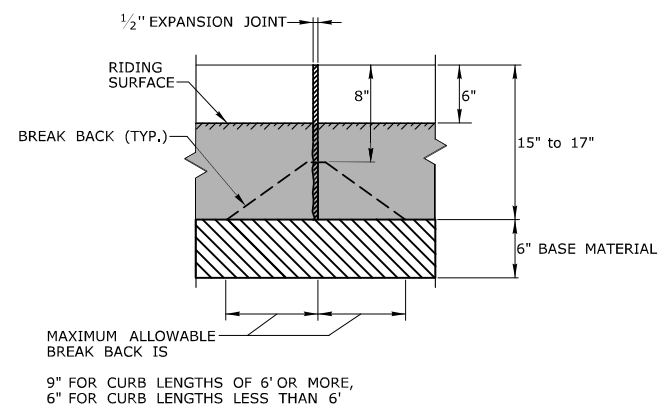
HW\_INX  
2 of 2



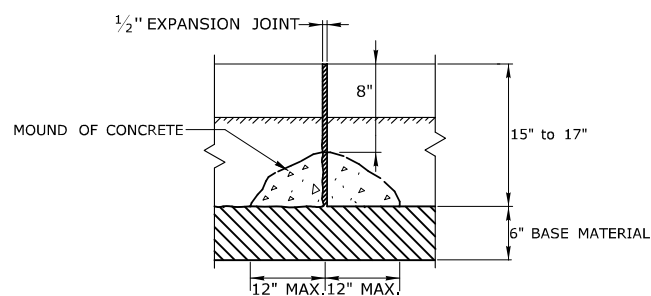
**STONE CURBING**



**PLAN**

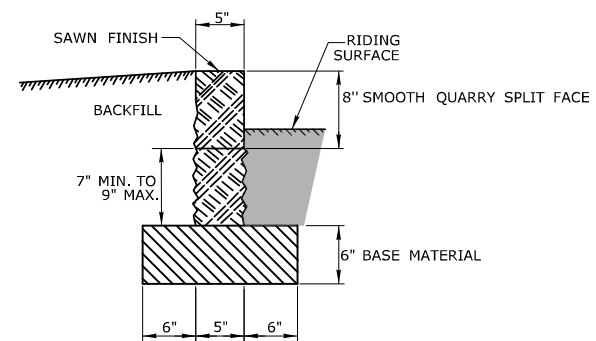


**FRONT ELEVATION**



**BACK ELEVATION**

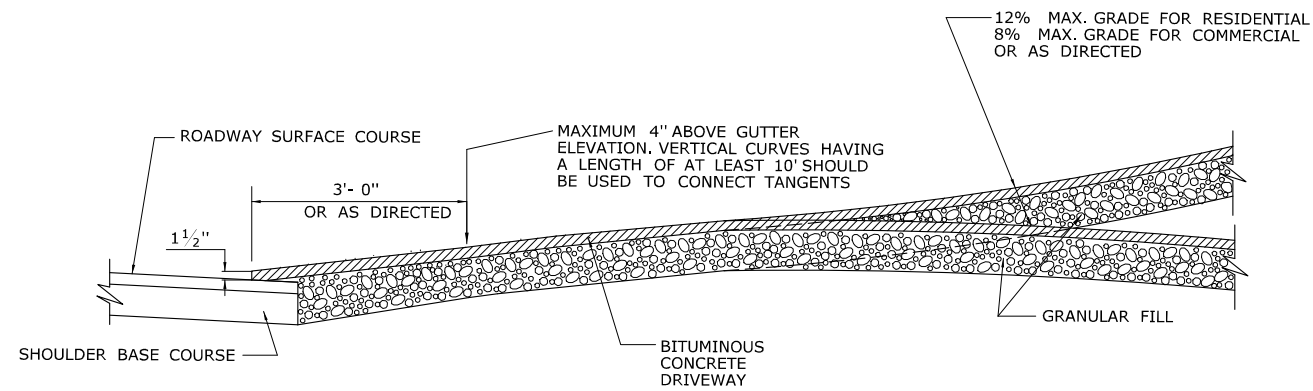
**MOUND OF CONCRETE AT ALL JOINTS FOR STONE CURBING**



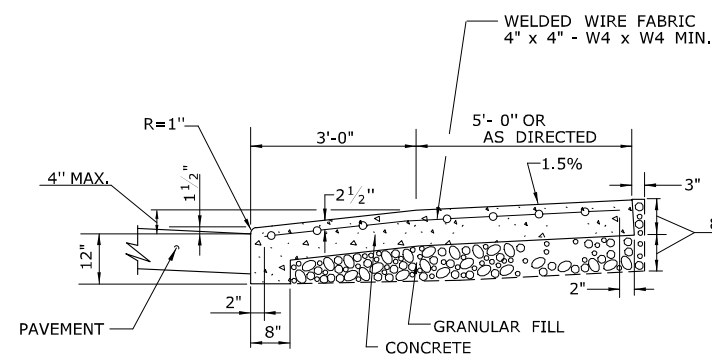
**SECTION**

1	6/17	NEW SHEET	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: 6/6/2017	<b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b>	SUBMITTED BY: _____ NAME/DATE/TIME: _____	<b>CTDOT</b> <b>STANDARD SHEET</b>	STANDARD SHEET TITLE: <b>STONE CURBING</b>	STANDARD SHEET NO.: <b>HW-813_02</b>
REV.	DATE	REVISION DESCRIPTION			APPROVED BY: _____ NAME/DATE/TIME: _____			
			NOT TO SCALE	Filename: HW-813_02.dgn Model: CT-Civil.2D-Sheet				





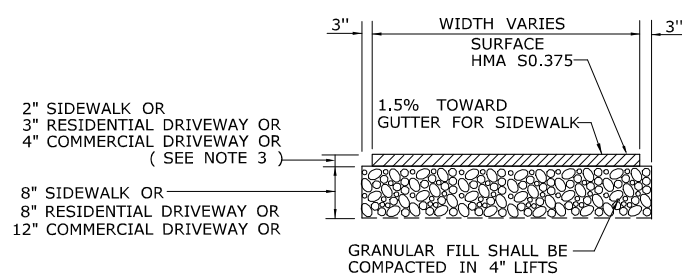
SECTION A



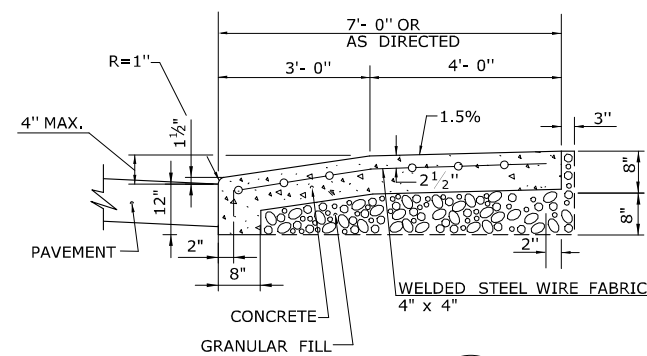
SECTION C

**GENERAL NOTES:**

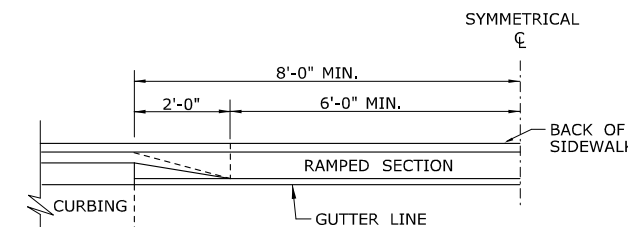
1. DRIVEWAY ENTRANCE SHALL BE A MINIMUM OF 12' WIDE, EXCLUDING CURBING WHEN PRESENT.
2. WELDED WIRE FABRIC MATS WITH REINFORCING AT CLOSER SPACING MAY BE USED.
3. SURFACE HMA S0.375 TO BE PLACED IN TWO EQUAL LIFTS FOR BOTH RESIDENTIAL AND COMMERCIAL DRIVEWAYS.



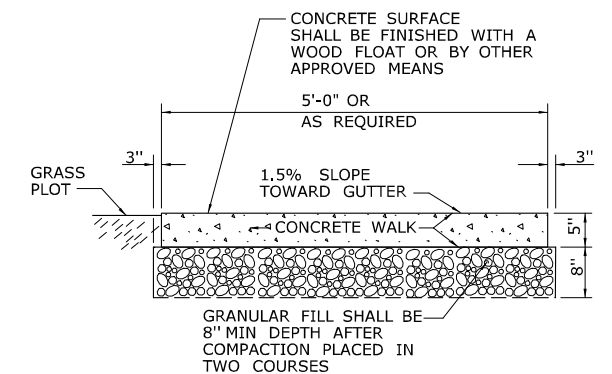
TYPICAL SECTION  
BITUMINOUS CONCRETE  
SIDEWALK AND DRIVEWAY



SECTION B

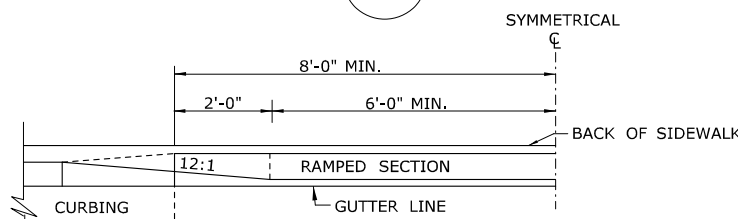


HALF ELEVATION

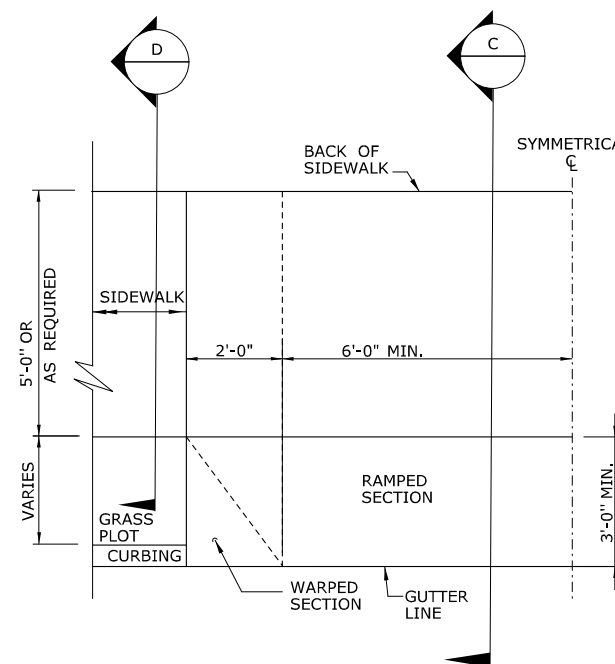


SECTION D

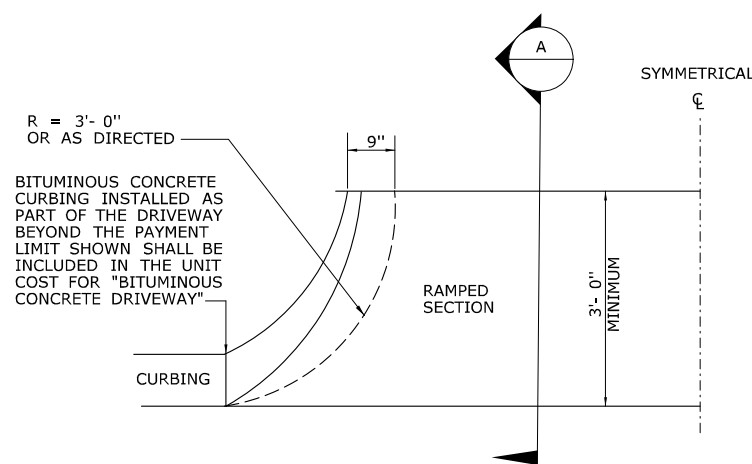
5' WIDE CONCRETE  
SIDEWALK WITH GRASS PLOT



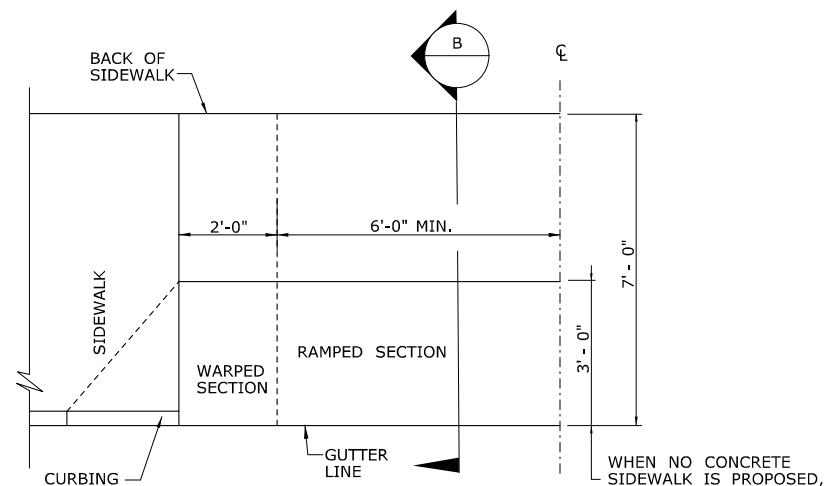
HALF ELEVATION



HALF PLAN OF  
CONCRETE DRIVEWAY RAMP WHERE  
CURB IS SEPARATED FROM  
SIDEWALK BY GRASS PLOT



HALF BITUMINOUS CONCRETE  
DRIVEWAY PLAN



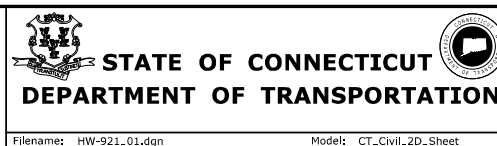
HALF PLAN OF  
CONCRETE DRIVEWAY RAMP WHERE  
SIDEWALK ADJOINS CURBING

REV.	DATE	REVISION DESCRIPTION
1	6/01/10	REVISED BORDER TITLE
2	6/01/10	REVISED HALF ELEVATION DETAILS
3	1/12	REVISE 2% MAX. SLOPE NOTE
4	6/17	REVISED SLOPES & MATERIAL COMPOSITIONS
-	-	INCREASED WALKING WIDTH OF CONCRETE DRIVEWAY RAMP

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Plotted Date: 6/6/2017

NOT TO SCALE

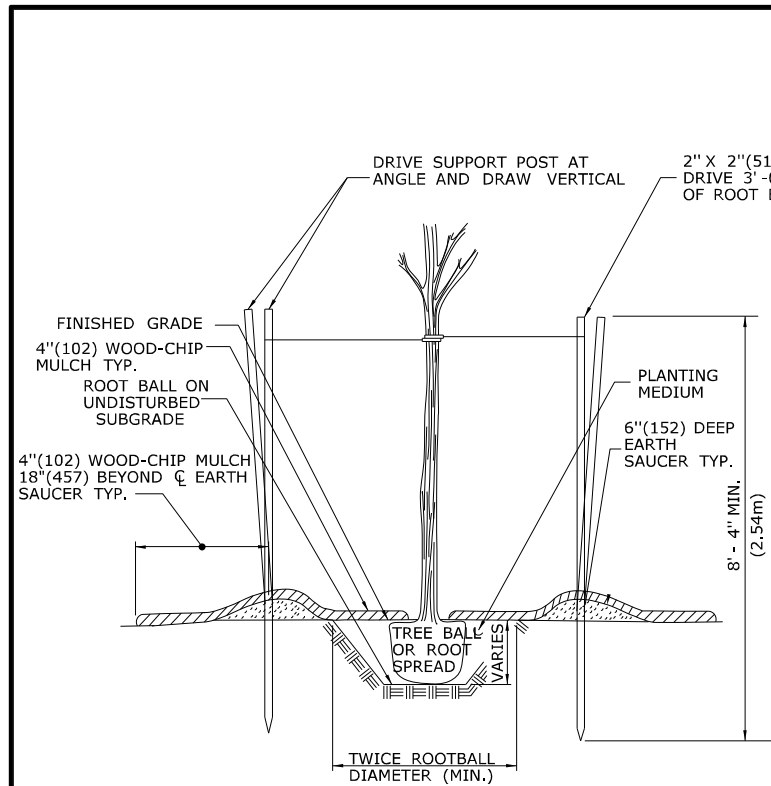


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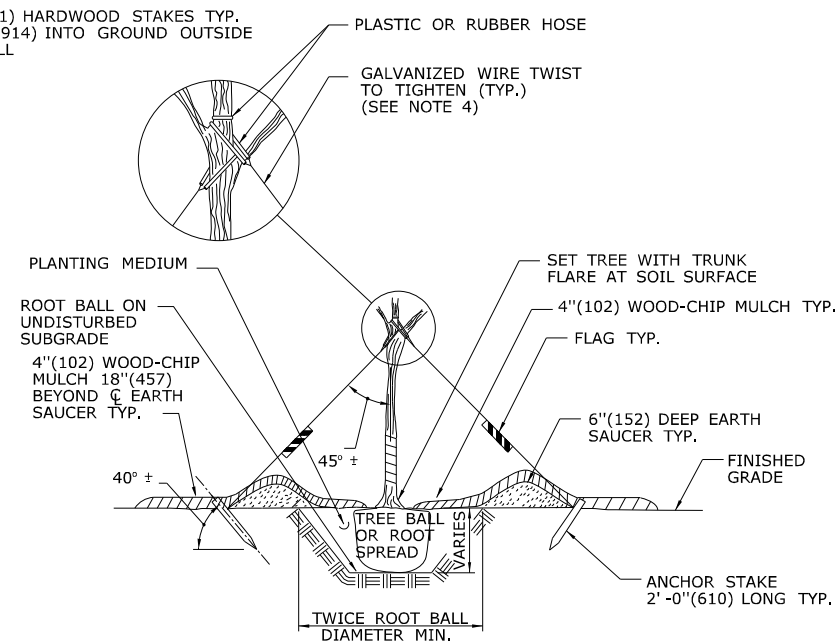
SUBMITTED BY:	NAME/DATE/TIME:
APPROVED BY:	NAME/DATE/TIME:

CTDOT  
STANDARD SHEET  
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:	STANDARD SHEET NO.:
DRIVEWAY RAMPS AND SIDEWALKS	HW-921_01



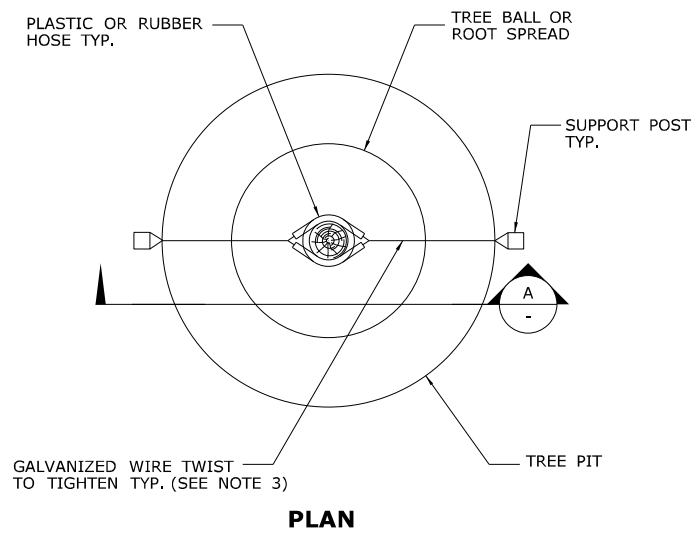
**SECTION A**



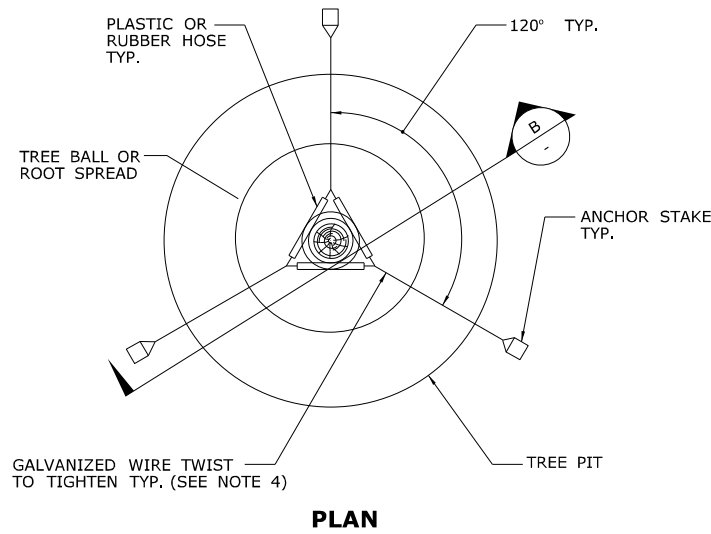
**SECTION B**

NOTE:  
USE 3 POSTS FOR STAKING DECIDUOUS TREES 3"(76) CALIPER OR GREATER AND EVERGREEN TREES 8'(2.4m) HIGH OR GREATER. USE 2 POSTS FOR STAKING DECIDUOUS TREES LESS THAN 3"(76) CALIPER AND EVERGREEN TREES LESS THAN 8'(2.4m) HIGH.

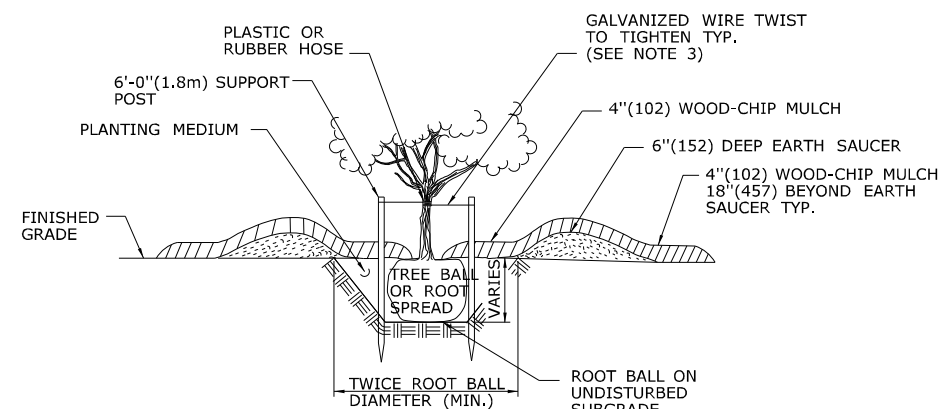
**GUYING PLAN**



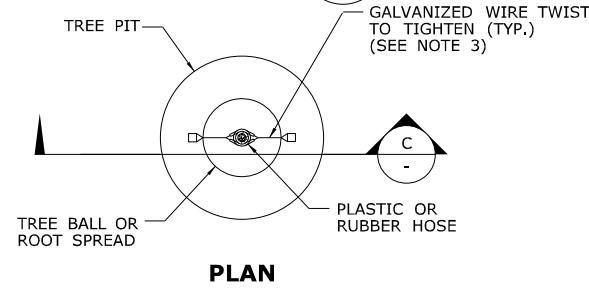
**STAKING PLAN**



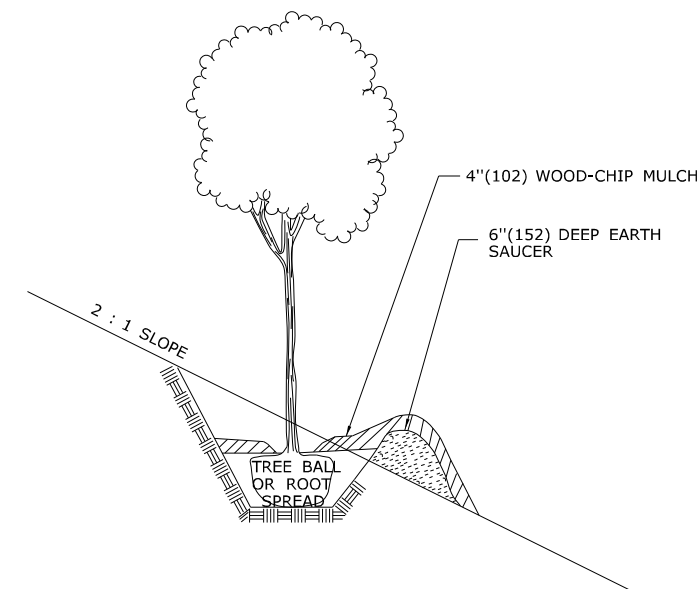
**PLAN**



**SECTION C**



**STAKING PLAN FOR LOW BRANCHING DECIDUOUS AND EVERGREEN TREES FROM 5'(1.5m) TO 8'(2.4m) HIGH.**



**GRADING PLAN FOR TREES ON SLOPES**

EXAMPLES OF MINIMUM SIZE OF ROOT BALL FOR NURSERY GROWN PLANTS.

CALIPER* INCHES(mm)	BALL DIAMETER INCHES(mm)	PLANTING PIT SIZE INCHES(mm)
-	8(203)	16(406)
-	10(254)	20(508)
1/2(12.5)	12(304)	24(610)
3/4(19)	14(356)	28(711)
1(25)	16(406)	32(813)
1 1/2(38)	20(508)	40(1016)
2(50)	24(610)	48(1219)
2 1/2(65)	28(711)	56(1422)
3(75)	32(813)	64(1626)
3 1/2(90)	38(965)	76(1930)
4(100)	42(1166)	84(2134)
5(125)	54(1372)	108(2743)
6(150)**	-	-

\* THE CALIPER OF THE TRUNK IS MEASURED 6"(152) ABOVE THE GROUND UP TO AND INCLUDING 4"(102) SIZES AND 12"(305) ABOVE THE GROUND FOR LARGER SIZES OR AS SPECIFIED IN THE MOST RECENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

\*\* TREES GREATER THAN OR EQUAL TO 6"(152) CALIPER SHALL HAVE A ROOT BALL DIAMETER EQUAL TO 10"(254) PER INCH(25mm) OF TRUNK CALIPER (A 7"(178) CALIPER TREE SHOULD HAVE A ROOT BALL DIAMETER EQUAL TO 70"(1778)).

**GENERAL NOTES:**

1. THE PLANTING PIT SIZE SHALL BE TWICE THE DIAMETER OF THE ROOT BALL IN WIDTH AND 2"(51) LESS THAN THE HEIGHT OF THE ROOT BALL.
2. ALL EXTERIOR PACKAGING MATERIAL APPLIED TO PLANTS SHALL BE REMOVED AFTER THE PLANT IS LOCATED IN THE PLANTING PIT, CUT AND REMOVE TWINE, BURLAP OR WIRE BASKETS FROM THE TOP 2/3RDS OF THE ROOT BALL.
3. USE DOUBLE STRAND NO. 12 WIRE FOR DECIDUOUS TREES GREATER THAN OR EQUAL TO 3"(76) CALIPER AND USE DOUBLE STRAND NO. 10 WIRE FOR EVERGREEN TREES GREATER THAN OR EQUAL TO 8"(203) CALIPER.
4. TREE TRUNK WRAPPING MATERIAL SHALL BE USED AS DIRECTED BY THE ENGINEER.
5. PLANTING PITS FOR INDIVIDUAL SHRUBS ON SLOPES SHALL BE THREE TIMES THE DIAMETER OF THE ROOT BALL IN WIDTH.

REV.	DATE	REVISION DESCRIPTION
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Plotted Date: 6/23/2011

NOT TO SCALE

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

FILENAME: CTDOT\_HIGHWAY\_STD\_JUNE2011.dgn Model: 71 - HW-949\_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT  
STANDARD SHEET  
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:  
**PLANTING DETAILS FOR TREES**

STANDARD SHEET NO.:  
**HW-949\_01**

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED



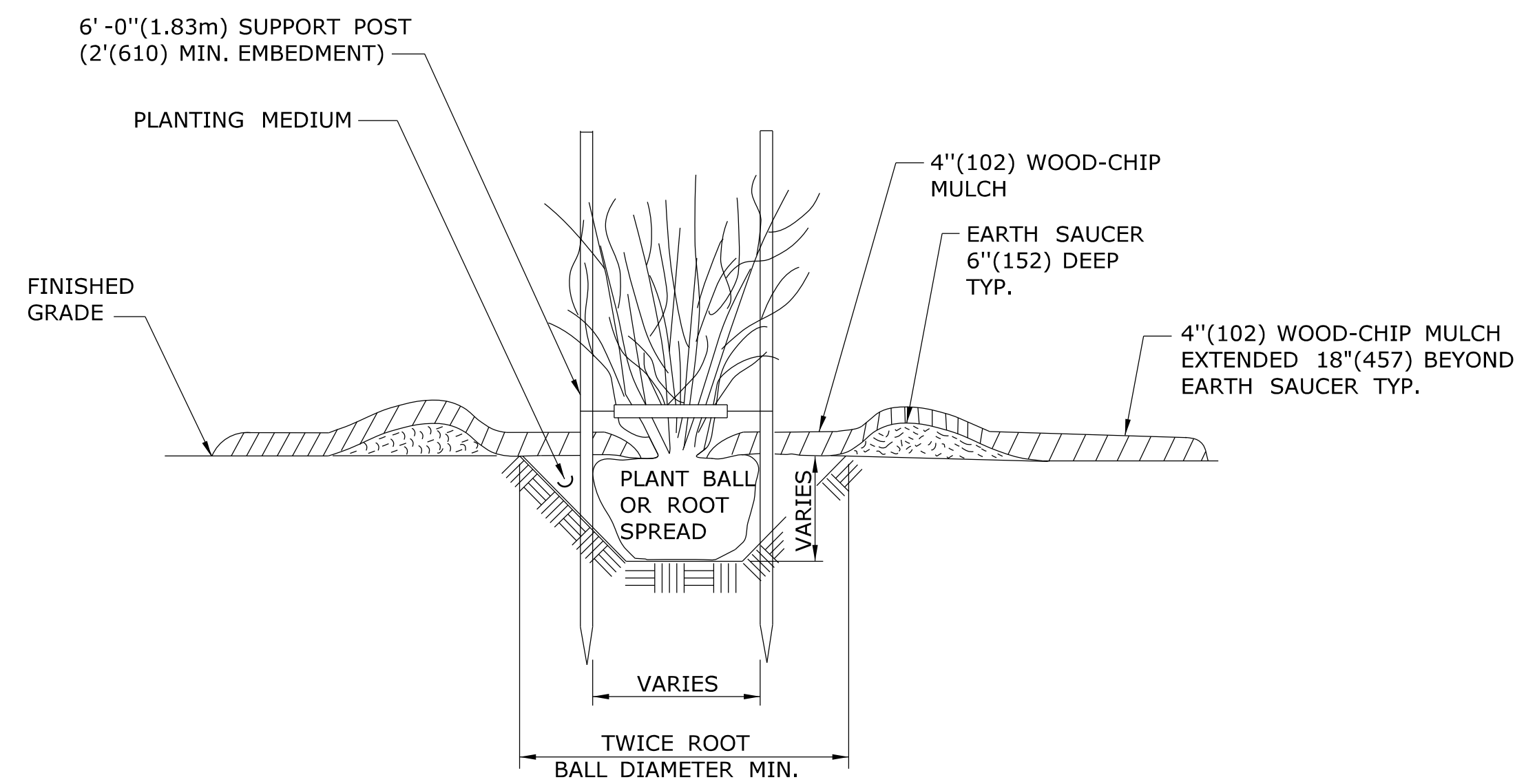
EXAMPLES OF MINIMUM CONTAINER SIZES FOR NURSERY GROWN PLANTS

CALIPER* INCHES(mm)	HEIGHT** FEET(mm)	CONTAINER SIZE GALLONS(LITERS)
-	1(305)	0.7-1.1(2.6-4.2)
-	2(610)	0.7-1.1(2.6-4.2)
-	3(914)	0.7-1.1(2.6-4.2)
-	4(1219)	1.4-2.0(5.3-7.6)
-	5(1524)	3.4-4.2(12.9-15.9)
-	6(1829)	4.7-5.4(17.8-20.4)
1(25)	7(2134)	5.8-7.8(21.9-29.5)
-	8(2438)	9.0-11.5*34.1-43.5)
1½(38)	-	12.0-16.0(45.4-60.6)
2(51)	-	25.0-29.7(94.6-112.4)
2½(64)	-	25.0-29.7(94.6-112.4)

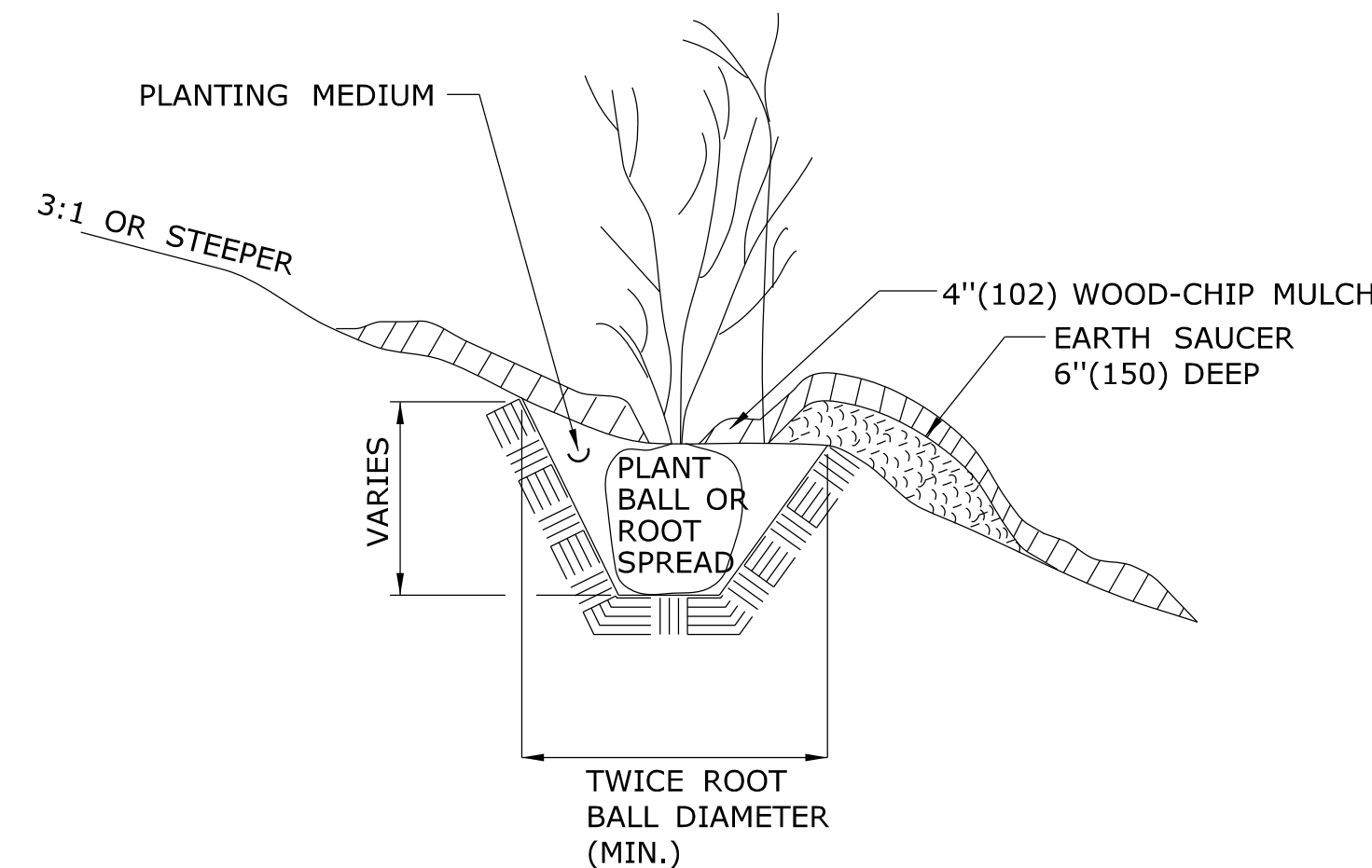
\* THE CALIPER IS MEASURED 4"(102) ABOVE GROUND LEVEL.

\*\* ONLY DECIDUOUS SHRUBS ARE INCLUDED IN THIS TABLE. EVERGREEN SHRUBS ARE MEASURED BY HEIGHT BUT, CONTAINER SIZE DEPENDS ON BOTH SIZE AND SHAPE AND ARE GENERALLY 1 TO 2 SIZES LARGER THAN DECIDUOUS PLANTS.

**TABLE FOR SHRUBS**

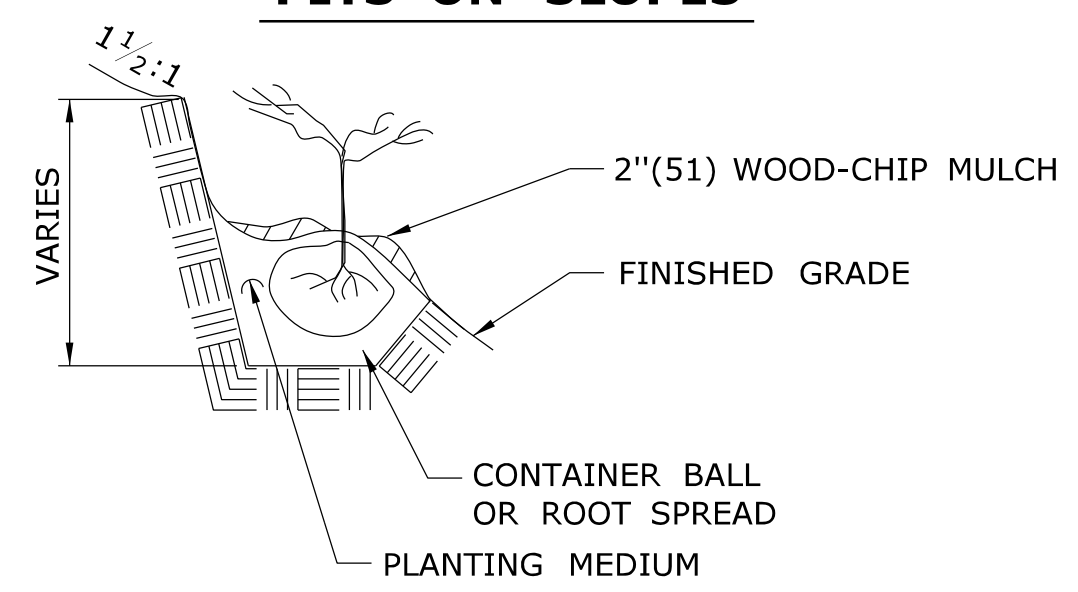


**SECTION A**



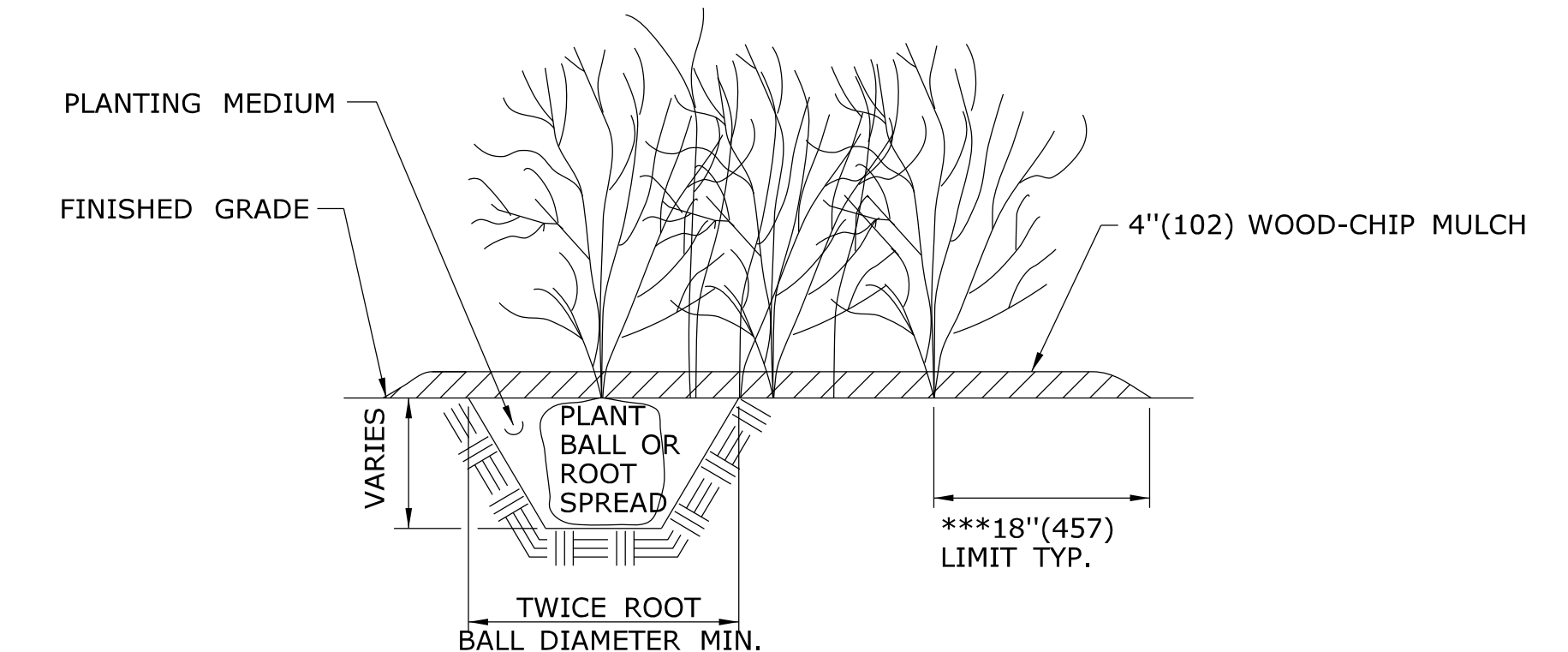
**SECTION**

**PLANTING FOR SHRUBS IN INDIVIDUAL PITS ON SLOPES**



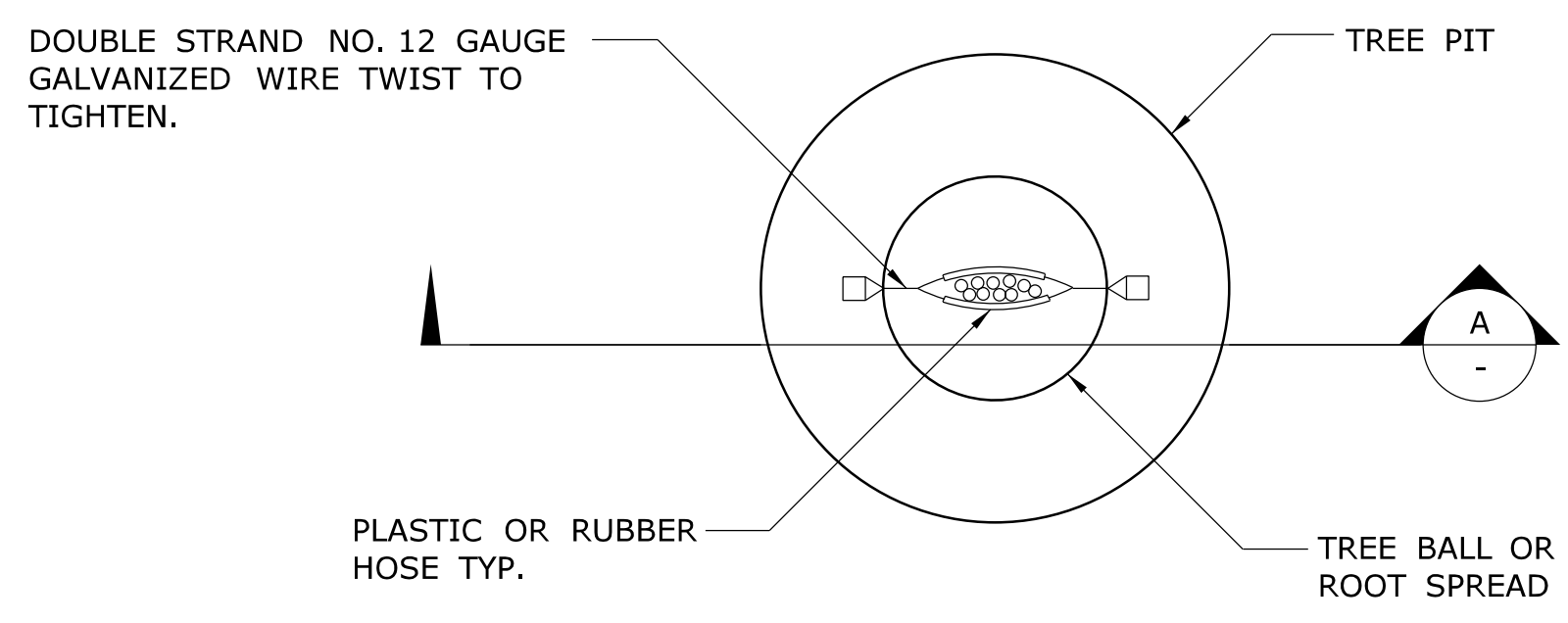
NOTE: PLACE PLANTS AT THE SAME DEPTH THAT THE SEEDLING WAS GROWN IN THE NURSERY.

**PLANTING FOR SEEDLINGS, VINES AND GROUND COVER PLANTS IN PITS ON SLOPES**



\*\*\* UNLESS OTHERWISE DIRECTED, WOOD-CHIP MULCH SHALL BE PLACED TO A LIMIT OF 18"(457) BEYOND THE CENTER OF THE OUTERMOST SHRUBS IN SHRUB BED.

**PLANTING FOR SHRUBS IN BEDS**



**PLAN**

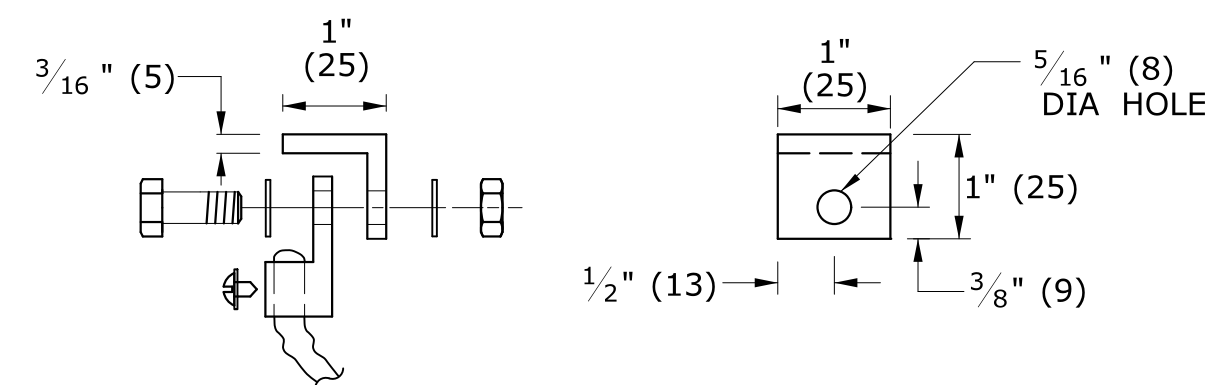
**STAKING FOR MULTI-STEMMED DECIDUOUS TREES FROM 5'(1.5m) TO 10'(3.0m) HIGH**

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

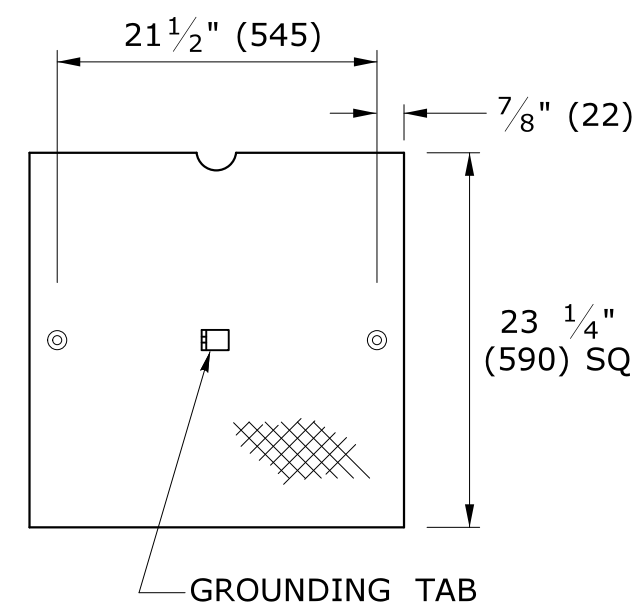


**COVER NOTES:**

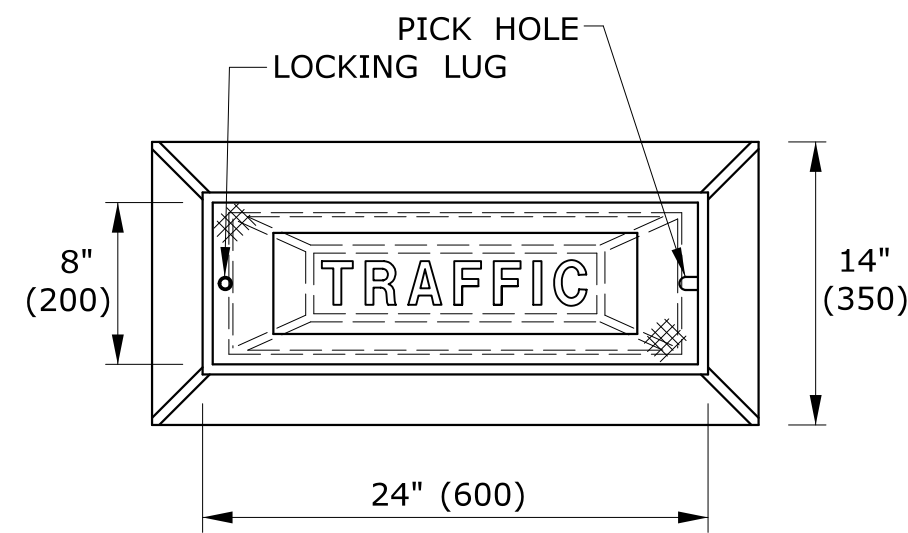
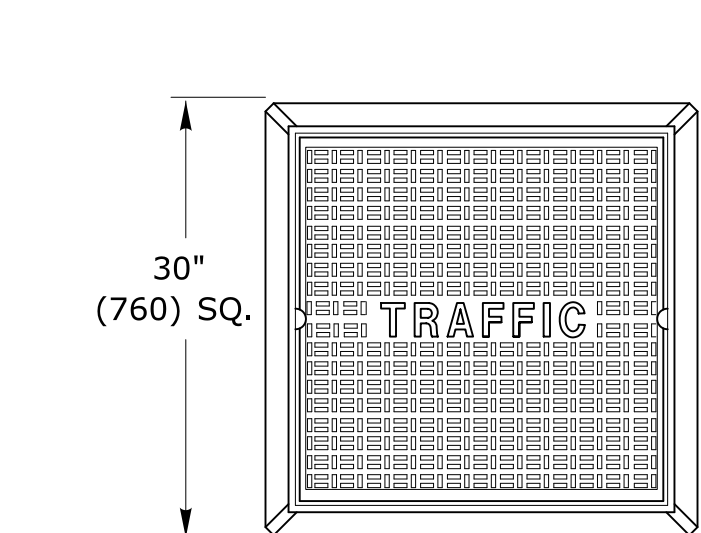
1. GROUNDING TAB WELDED TO BOTTOM CENTER OF COVER WITH  $\frac{3}{16}$ " (5) WELD (3 SIDES).
2. ATTACH 6' (2 m) LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH CONDUCTOR CONNECTOR,  $\frac{1}{4}$ " - 20 X  $\frac{3}{4}$ " (M6 X 20) LG SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO CONDUIT BONDING BUSHING IN HANDHOLE.
3. CONDUCTOR CONNECTOR: COPPER ALLOY BODY, BRASS SCREW, BRASS OR COPPER ALLOY PRESSURE PLATE.
4. COVER SCREW INSERT:  $\frac{3}{8}$ "-16 (9-16),  $1\frac{1}{2}$ " L (37L), STAINLESS STEEL.
5. COVER SCREW:  $\frac{3}{8}$ "-16 (9-16), 1" L (25L), FLAT HEAD, SLOTTED, STAINLESS STEEL.



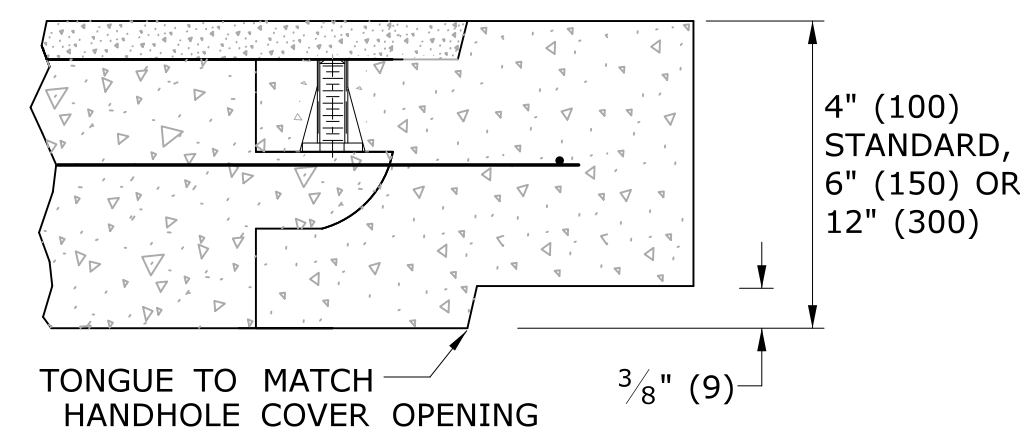
**STEEL GROUNDING TAB  
w/ CONDUCTOR CONNECTOR**



**NON SKID FLOOR PLATE  
GALVANIZED STEEL, 3/8" (10)**



**CAST IRON  
HANDHOLE COVERS**

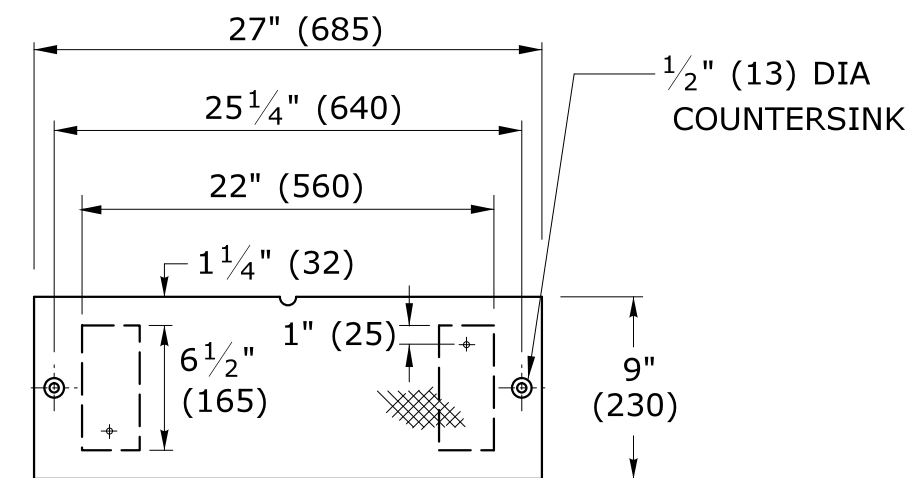


**SECTION A-A  
HANDHOLE EXTENSIONS**

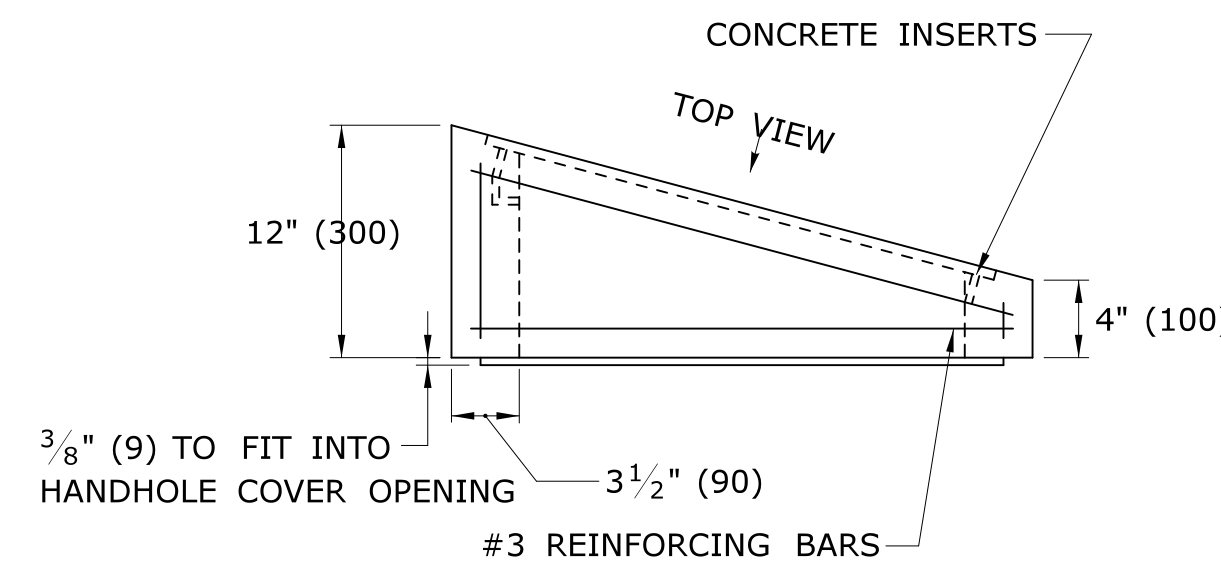
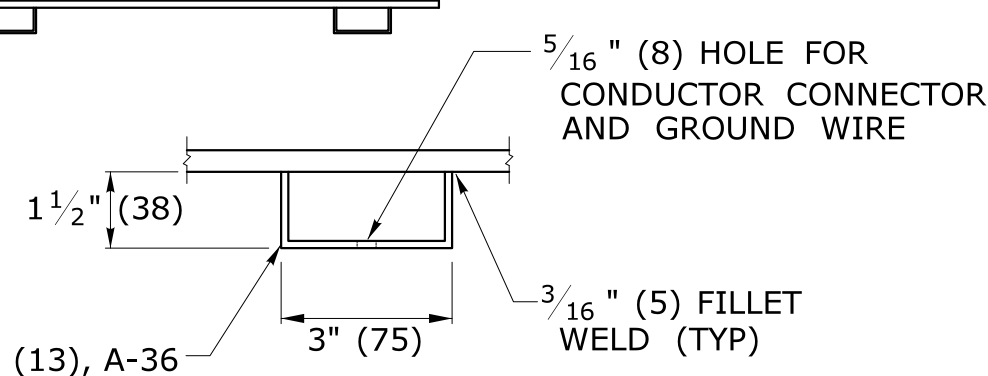
4 - #8 REINFORCING BARS REQ'D

**HANDHOLE NOTES:**

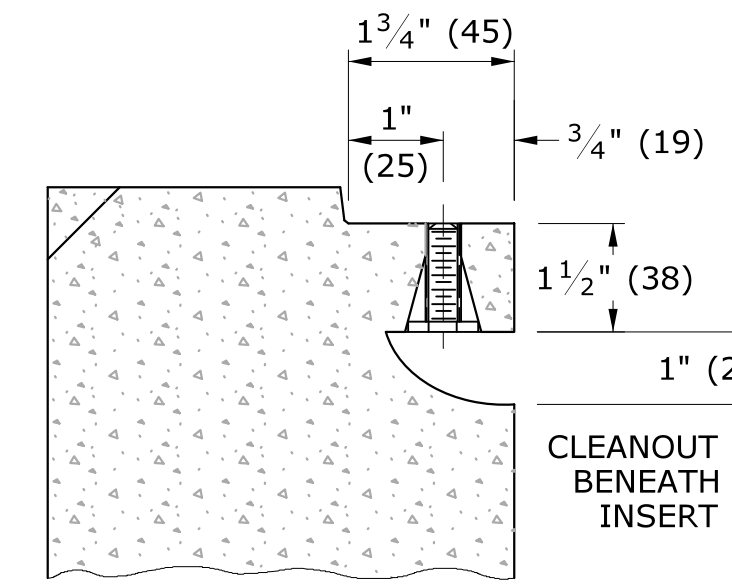
1. MINIMUM CLASS "C" CONCRETE.
2. COMPLETE TYPE II HANDHOLE:  
IN EARTH AREAS, CONSISTS OF A BASE SECTION WITH 4" (100) HANDHOLE EXTENSION,  
IN SIDEWALK AREAS, CONSISTS OF A BASE SECTION WITH 4" (100) CAST IRON COVER.
3. PLAN VIEW DIMENSIONS, SECTION VIEW, & DETAILS, SAME FOR BASE SECTION, EXTENSIONS & BANK ADAPTER.
4. GROUT AROUND ALL CONDUITS.



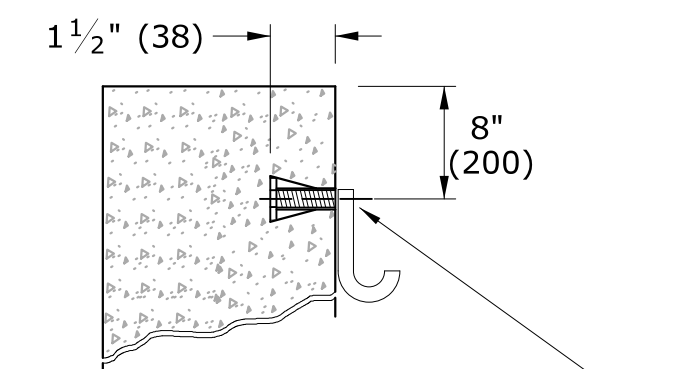
C-CHANNEL 0.250" (13), A-36



**BANK ADAPTER**

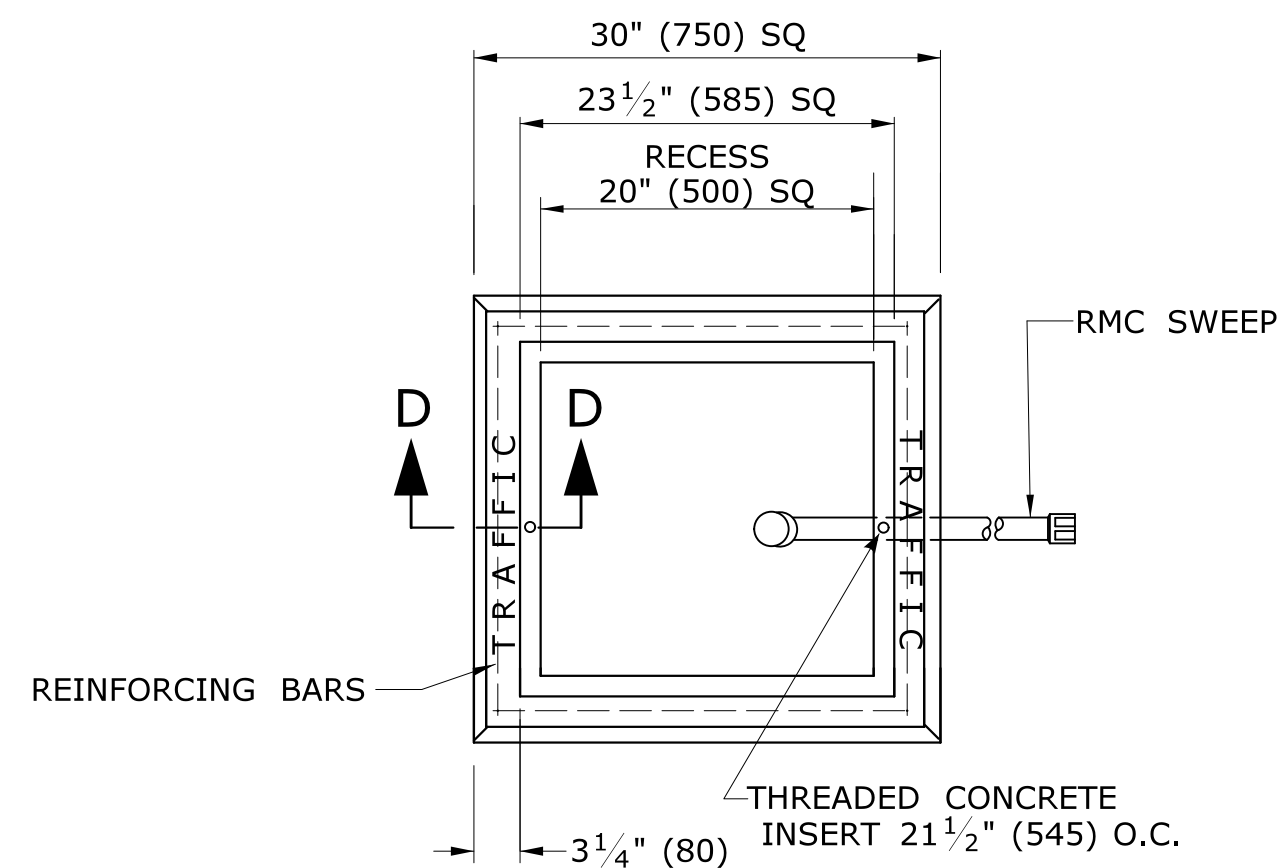


**SECTION D-D**

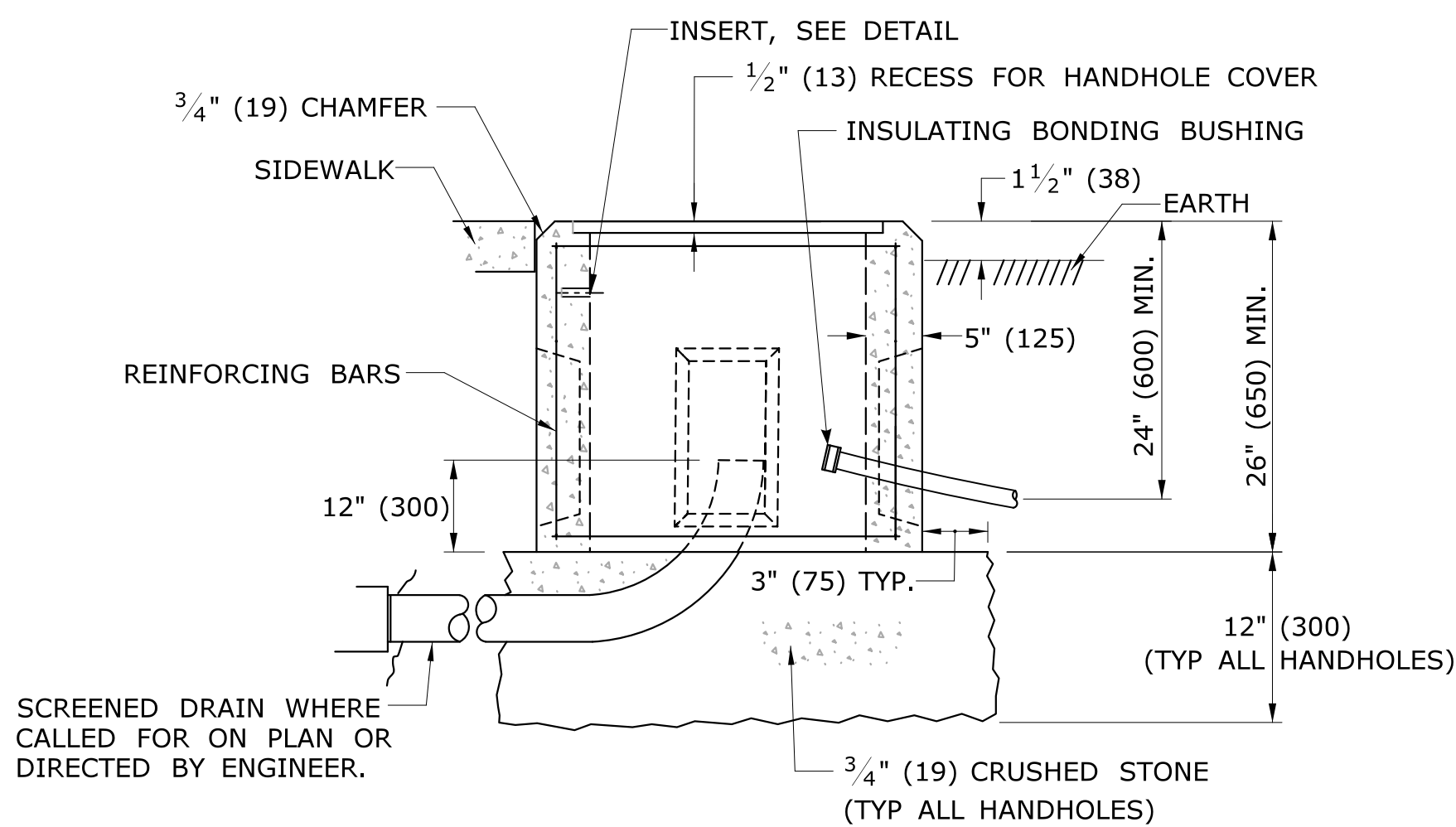
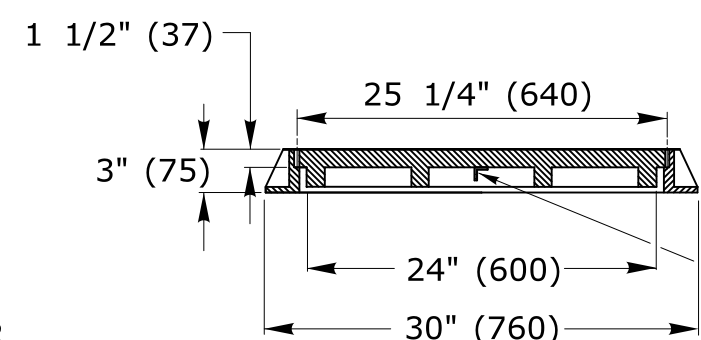


**INSERT DETAIL**

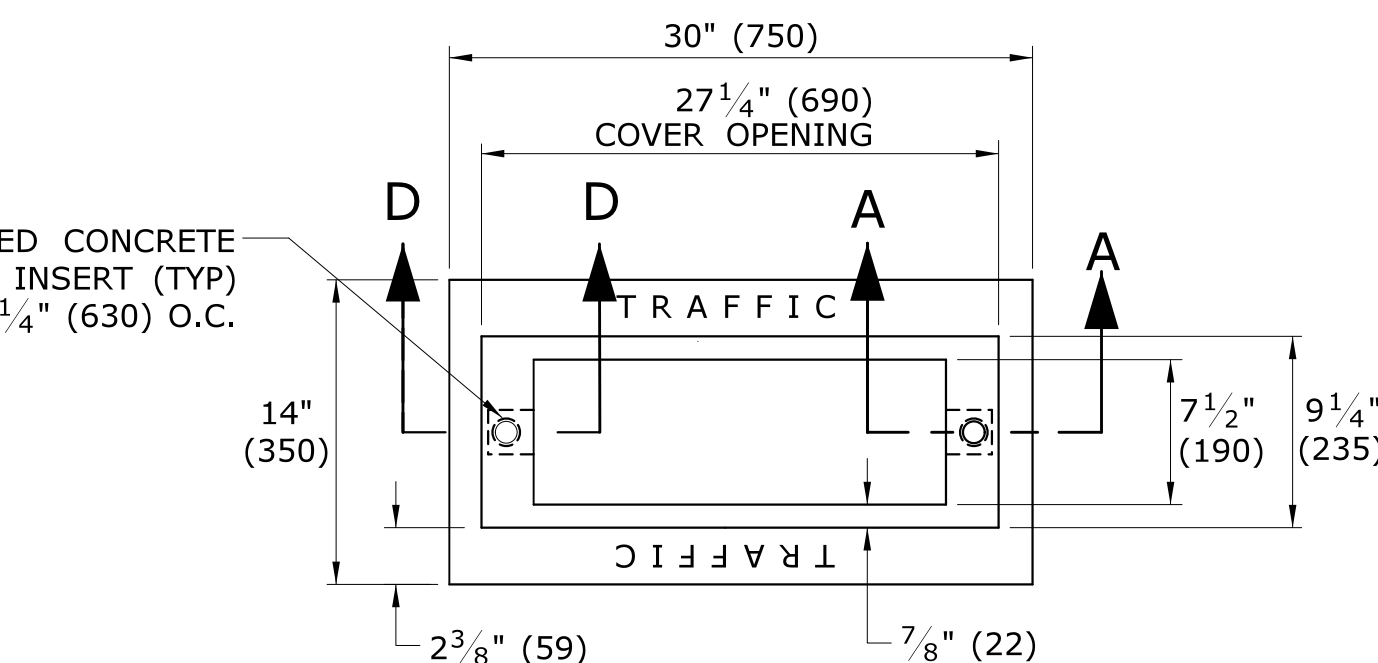
TYP IN TWO PLACES FOR ALL HANDHOLES



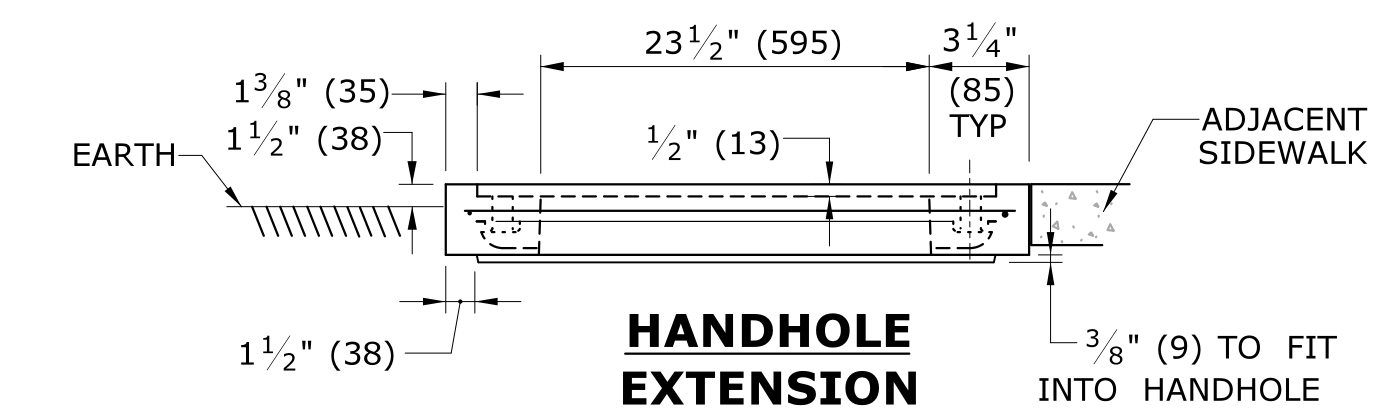
**PLAN VIEW**



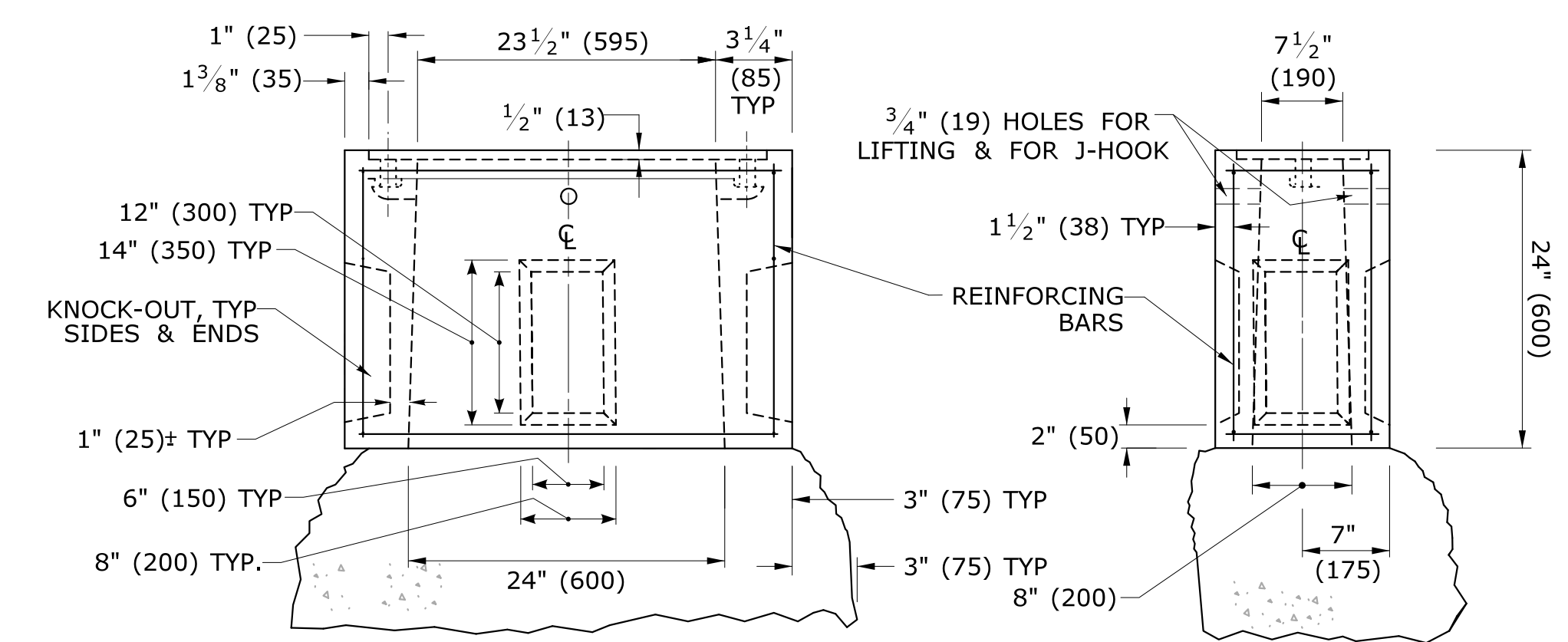
**CONCRETE HANDHOLE TYPE I**



**PLAN VIEW**



**HANDHOLE  
EXTENSION**



**BASE SECTION  
CONCRETE HANDHOLE TYPE II**

5. INSTALL 30" (750) SIDE PARALLEL TO ROAD UNLESS OTHERWISE NOTED.
6. INSTALL HANDHOLES APPROX. 12" (300) BEHIND CURB OR IF NO CURB, 24" (600) BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.
7. CAST THE WORD "TRAFFIC" INTO TOP EDGE OF HANDHOLE, 1 1/2" (38) LETTERS.
8. WHERE AN EXISTING CONCRETE SIDEWALK SLAB ABUTTING A HANDHOLE IS DAMAGED OR CUT DURING INSTALLATION, REPLACE THE ENTIRE SIDEWALK SECTION.
9. 12-#3 REINFORCING BARS REQUIRED FOR ALL HANDHOLES. (8 HORIZONTAL, 4 VERTICAL)

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

- PROPOSED HANDHOLE
- EXISTING HANDHOLE

REV.	DATE	REVISION DESCRIPTION
2	4-2014	REVISED HANDHOLES NOTES, ADDED NOTE #6. ADDED "J" HOOK TO INSERT DETAIL.
1	4-2012	CAST IRON COVER: CHANGED BOLT TO PICK HOLE. ADDED EXTENSIONS, C-CHANNEL, CONDUCTOR CONNECTOR & MINOR REVISIONS.

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Plotted Date: 4/11/2014

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm. - UNDER 1" TO NEAREST 1 mm.

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STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

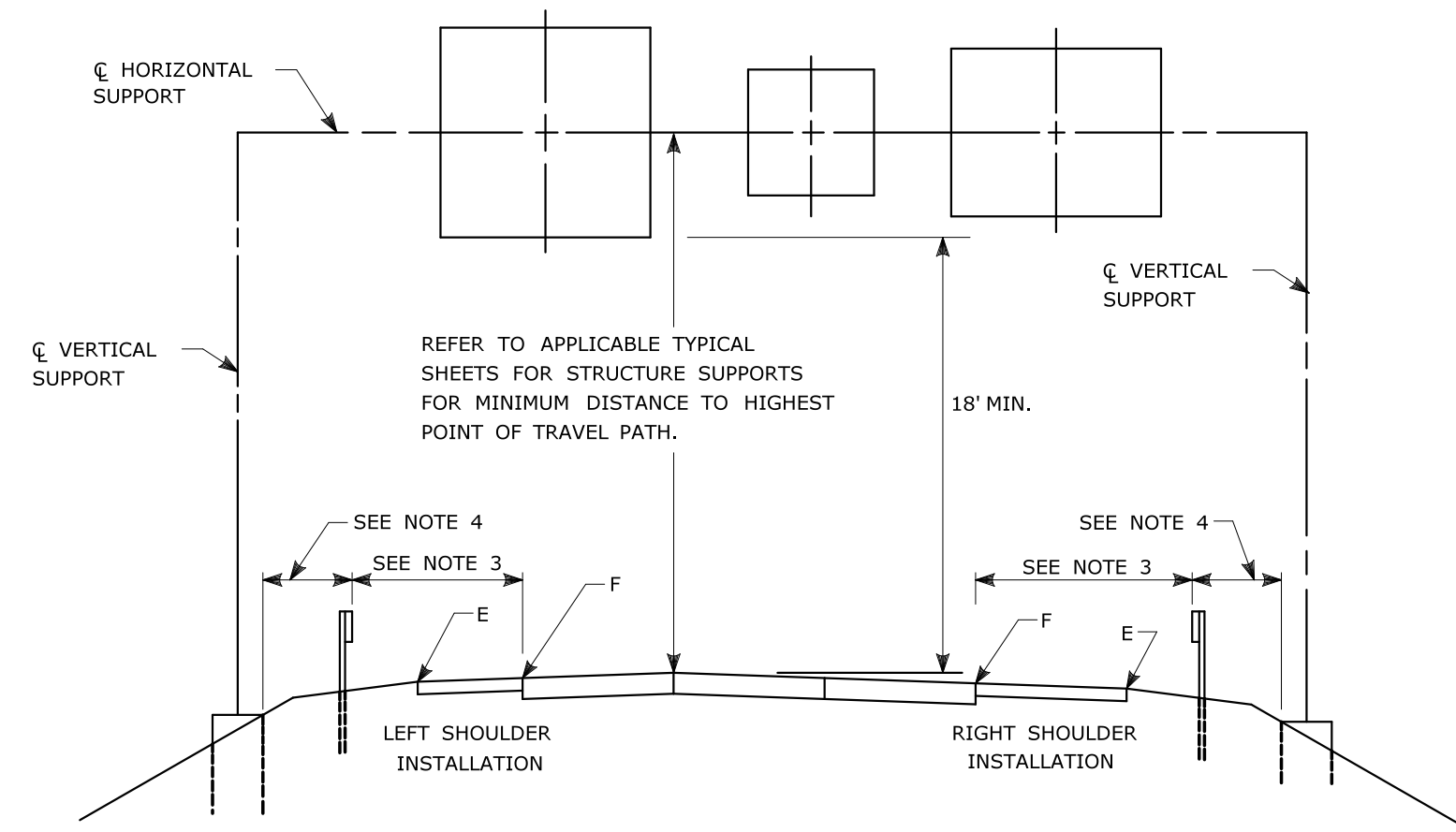
FILENAME: CTDOT\_TRAFFIC\_STD.DGN Model: TR-1010\_01

SUBMITTED BY: NAME/DATE/TIME:  
APPROVED BY: NAME/DATE/TIME:

CTDOT  
STANDARD SHEET  
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:  
**CONCRETE HANDHOLE**

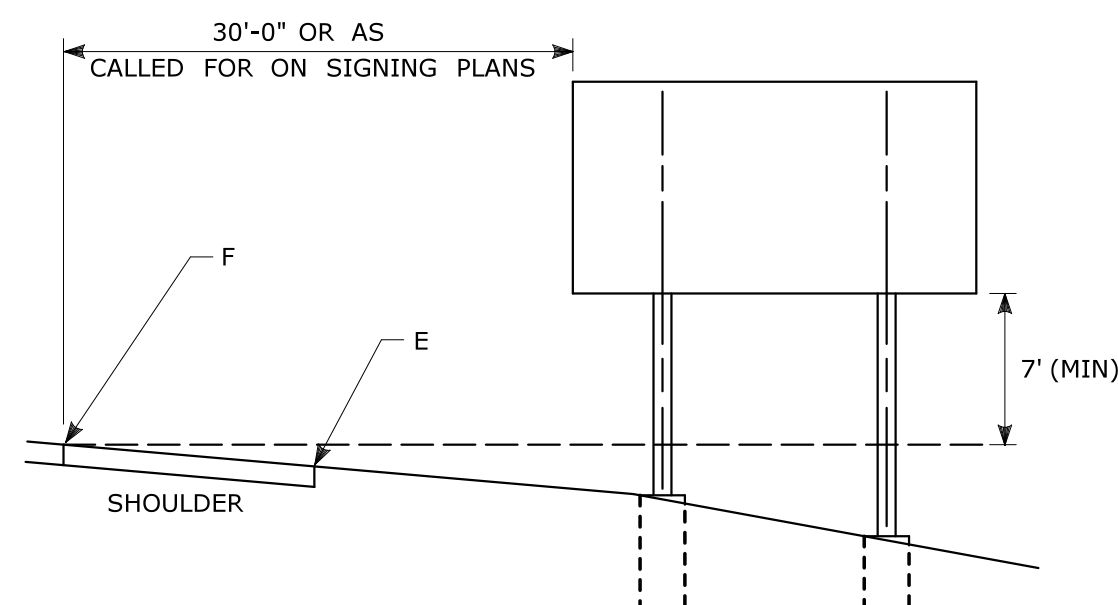
STANDARD SHEET NO.:  
**TR-1010\_01**



**TYPICAL PLACEMENT OF OVERHEAD SIGNS ON SIGN SUPPORTS**

**NOTES:**

- 1) FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE PORTION OF ABOVE DETAIL.
- 2) BARRIER SYSTEMS MAY BE REQUIRED FOR BOTH SIDES OF SUPPORTS IN MEDIANS.
- 3) IMPACT PROTECTION SHALL BE PROVIDED FOR THE SIGN SUPPORTS LOCATED WITHIN CLEAR ZONE.
- 4) SIGN SUPPORT FOUNDATIONS SHALL BE LOCATED OUTSIDE OF BARRIER SYSTEMS DEFLECTION AREA.
- 5) ALL SIGNS ARE TO BE LEVEL, REGARDLESS OF CAMBER IN SUPPORT.



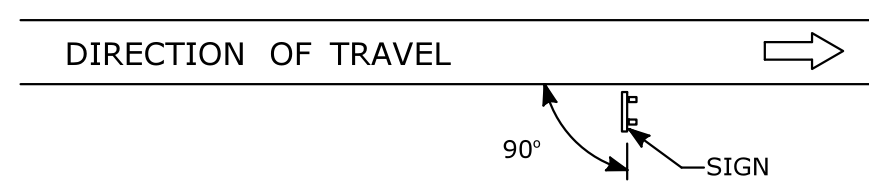
**TYPICAL PLACEMENT OF SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS**

**NOTES:**

- 1) MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 7'.
- 2) WHERE GUIDE RAIL IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLANS.
- 3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET TO THE NEAR EDGE OF OF SIGN FACE SHALL BE 6' MIN. FROM POINT "E".
- 4) IF 30'-0" MIN. CANNOT BE MET, PLEASE CONTACT THE ENGINEER.

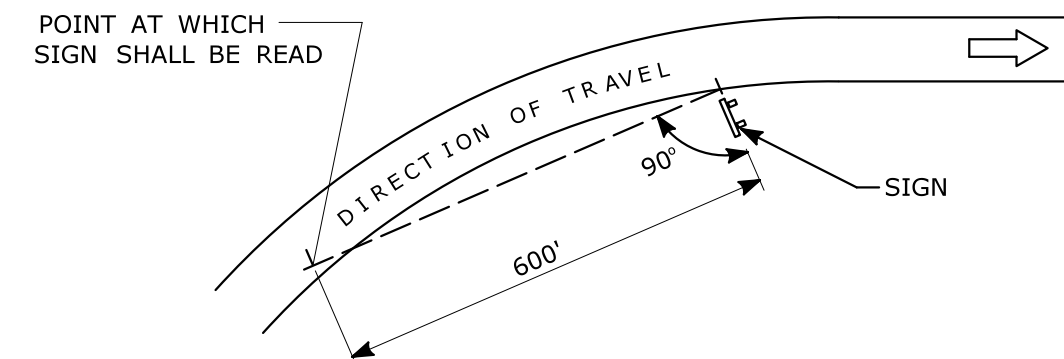
FOR MAXIMUM EFFECTIVENESS, POSITION SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS AS FOLLOWS:

ON A TANGENT SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH THE TRAFFIC LANE WHICH THE SIGN SERVES. SIGNS LOCATED 30 FT OR MORE FROM THE EDGE OF THE ROAD SHALL BE TURNED APPROXIMATELY 3° TOWARD THE ROAD.



**DIAGRAM "A"**

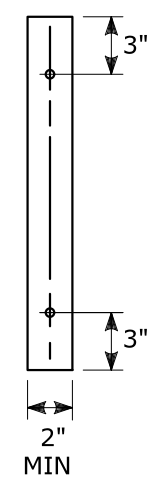
ON A HORIZONTAL CURVE SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH A STRAIGHT LINE BETWEEN THE SIGN AND THE POINT AT WHICH THE SIGN SHALL BE READ.



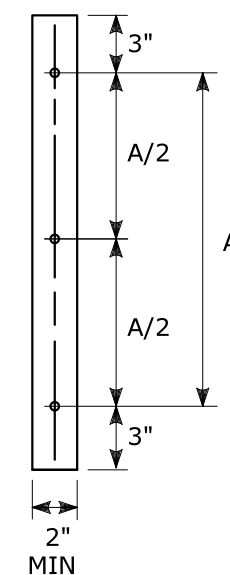
**DIAGRAM "B"**

**SIGN ORIENTATION DETAILS FOR SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS**

RETROREFLECTIVE STRIPS 48" LONG OR LESS:



RETROREFLECTIVE STRIPS OVER 48" LONG:

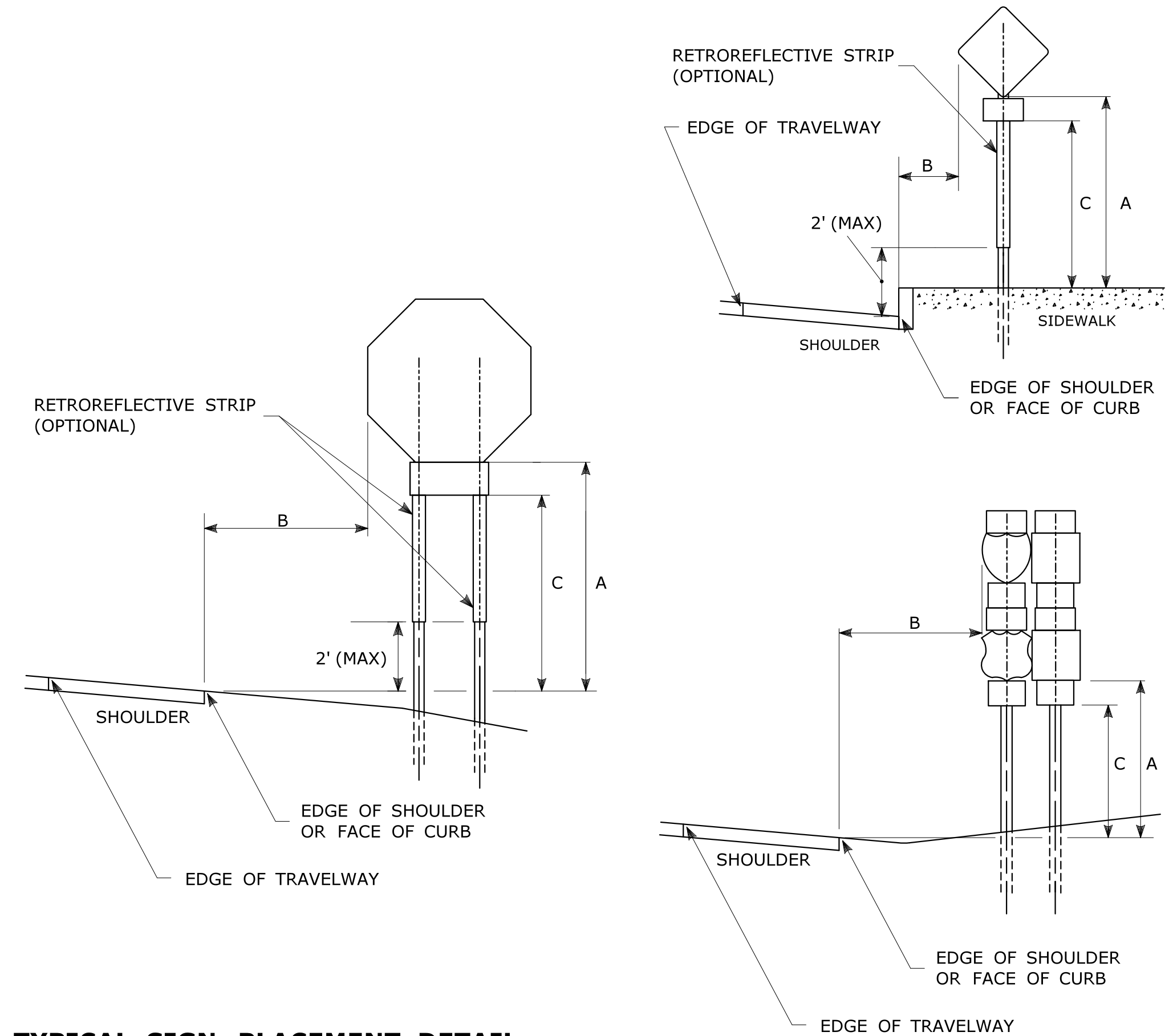


**RETROREFLECTIVE STRIP DETAIL**

**NOTES:**

RETROREFLECTIVE STRIPS WHICH ARE 48 IN LONG OR LESS SHALL BE ATTACHED USING 2 BOLTS AND RETROREFLECTIVE STRIPS OVER 48 IN LONG SHALL BE ATTACHED USING 3 BOLTS AS SHOWN ON THE DETAILS ABOVE. REFER TO STANDARD SHEET No. TR-1208.02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR MOUNTING DETAILS.

RETROREFLECTIVE STRIP COLOR SHALL MATCH THE BACKGROUND COLOR OF THE SIGN, EXCEPT THAT THE COLOR OF THE STRIP FOR "YIELD" AND "DO NOT ENTER" SIGNS SHALL BE RED.



**TYPICAL SIGN PLACEMENT DETAIL**

**NOTES:**

ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUT VERTICALLY. REFER TO STANDARD SHEET No. TR-1208.02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR SIGN POSTS AND SIGN MOUNTING. IF A RETROREFLECTIVE STRIP IS USED ON SIGN SUPPORT, IT SHALL BE PLACED FOR THE FULL LENGTH OF THE SUPPORT FROM THE BOTTOM OF THE SIGN TO WITHIN 2 FT ABOVE THE EDGE OF THE ROADWAY. PARKING SIGNS TYPICALLY USE 45° MOUNTING BRACKET.

DIM."A" MIN SIGN HEIGHT	DIM."B" MIN LATERAL OFFSET (1)	DIM."C" MIN PLAQUE HEIGHT (1)	ASSEMBLY LOCATION
7' (2)	6' 12' (3)	5'	SIGNS ON FREEWAYS AND EXPRESSWAYS EXCEPT CHEVRON ALIGNMENT SIGNS, ONE-DIRECTION LARGE ARROW SIGNS, DO NOT ENTER SIGNS, AND WRONG WAY SIGNS
5'	2'	4'	• SIGNS IN RURAL AREAS • DO NOT ENTER AND WRONG WAY SIGNS ALONG EXIT RAMP • DO NOT ENTER AND WRONG WAY SIGNS ON LIMITED ACCESS HIGHWAYS
5'	2'	N/A	• CHEVRON ALIGNMENT SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMP, AND IN RURAL AREAS • ONE-DIRECTION LARGE ARROW SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMP, AND IN RURAL AREAS
4'	6' 12' (3)	N/A	INCIDENT MANAGEMENT SIGNS AND MILE POST MARKER ASSEMBLIES LOCATED ON FREEWAYS AND EXPRESSWAYS
4'	2'	4'	CENTRAL ISLANDS OF ROUNDABOUTS
7'	2' (4)	6'	BUSINESS & RESIDENTIAL AREAS WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY
7'	2' (4)	7'	SIDEWALKS (5)

(1) OR AS DIRECTED BY THE ENGINEER

(2) 8 FT MINIMUM HEIGHT REQUIRED IF A SUPPLEMENTAL PLAQUE IS SUBMOUNTED BELOW THE MAJOR SIGN.

(3) 6 FT FROM EDGE OF SHOULDER, WHEN SHOULDER IS OVER 6 FT WIDE  
12 FT FROM EDGE OF TRAVELWAY, WHEN SHOULDER IS LESS THAN 6 FT WIDE.

(4) A LATERAL OFFSET OF AT LEAST 1 FT FROM THE FACE OF THE CURB MAY BE USED WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING UTILITY POLES ARE CLOSE TO THE CURB.

(5) A CLEAR PATH OF NOT LESS THAN 4 FT SHALL BE PROVIDED IN SIDEWALK AREAS.

REV.	DATE	REVISION DESCRIPTION
3	8-2018	INCLUDED INCIDENT MANAGEMENT AND MILE MARKER SIGNS.
2	4-2017	MINOR REVISIONS.
1	2-2011	MINOR REVISIONS.

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.

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DEPARTMENT OF TRANSPORTATION

Plotted Date: 8/10/2018

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APPROVED BY: NAME/DATE/TIME:

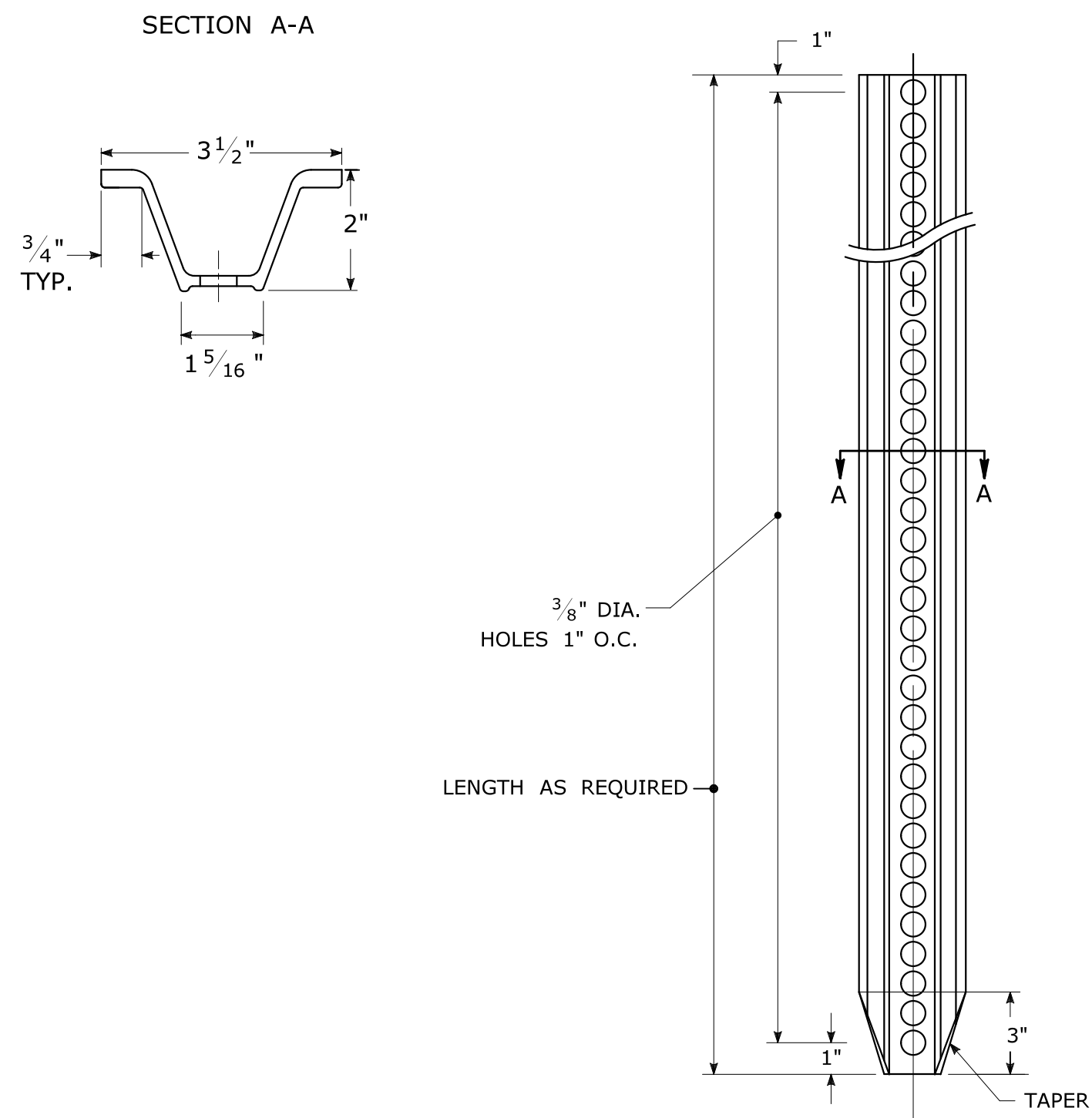
CTDOT  
STANDARD SHEET

OFFICE OF ENGINEERING

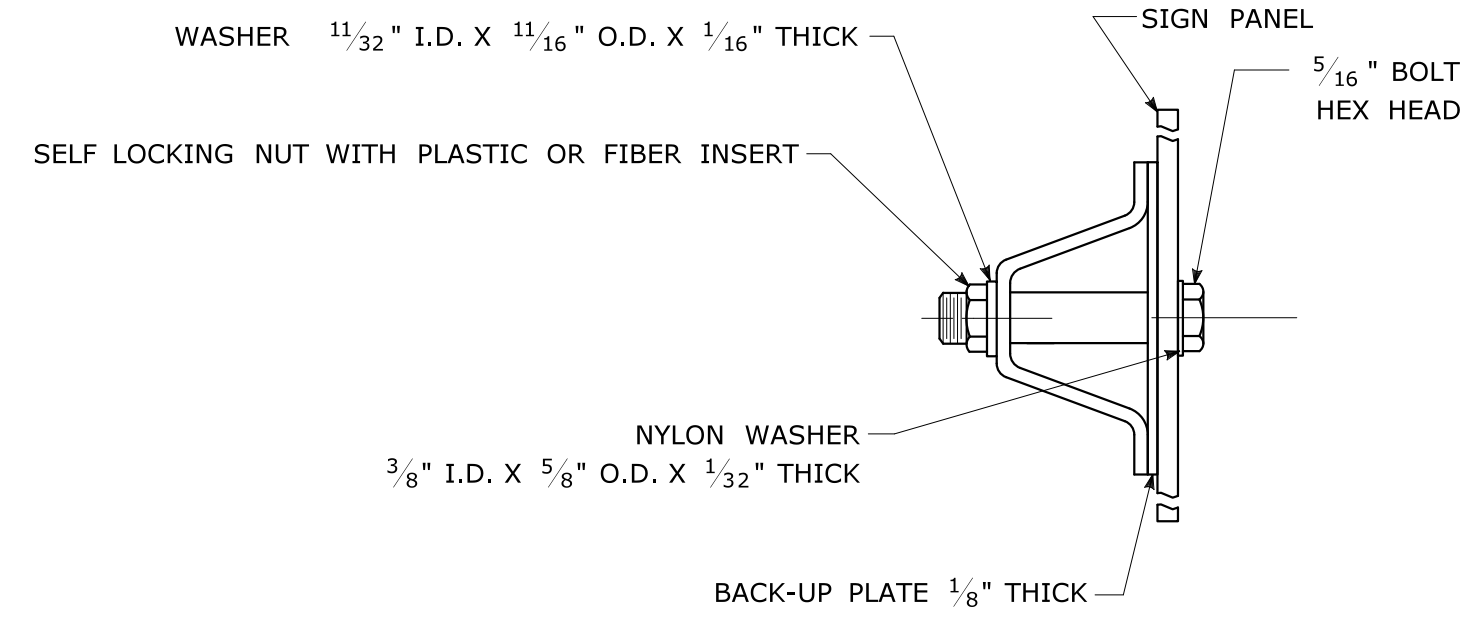
STANDARD SHEET TITLE:  
**SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS**

STANDARD SHEET NO.:  
**TR-1208\_01**

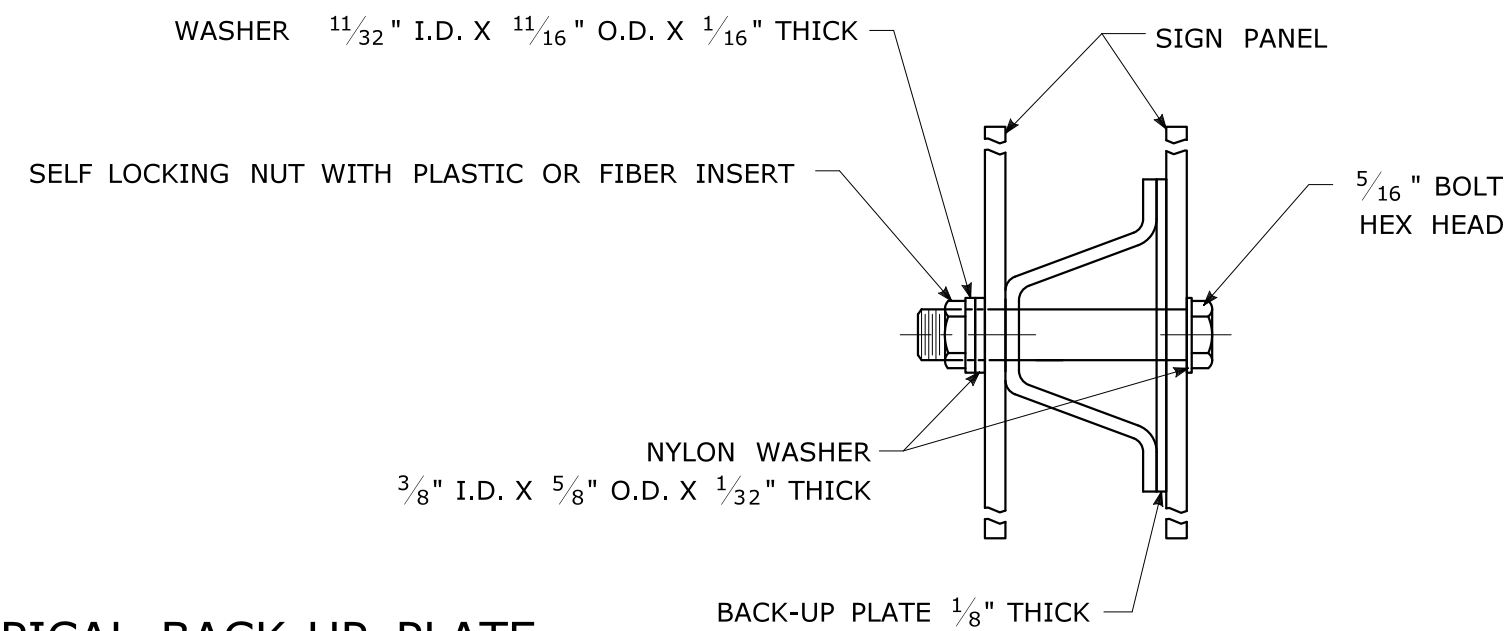
TYPICAL METAL SIGN POSTS



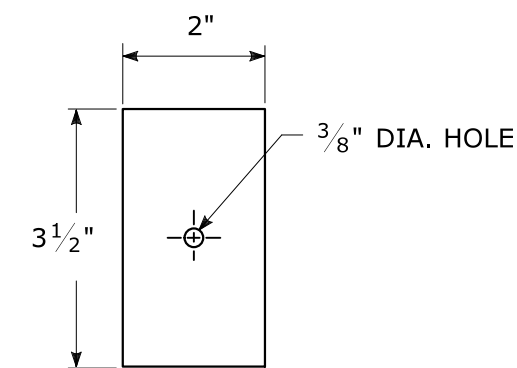
TYPICAL SIGN PANEL ATTACHMENT



TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT



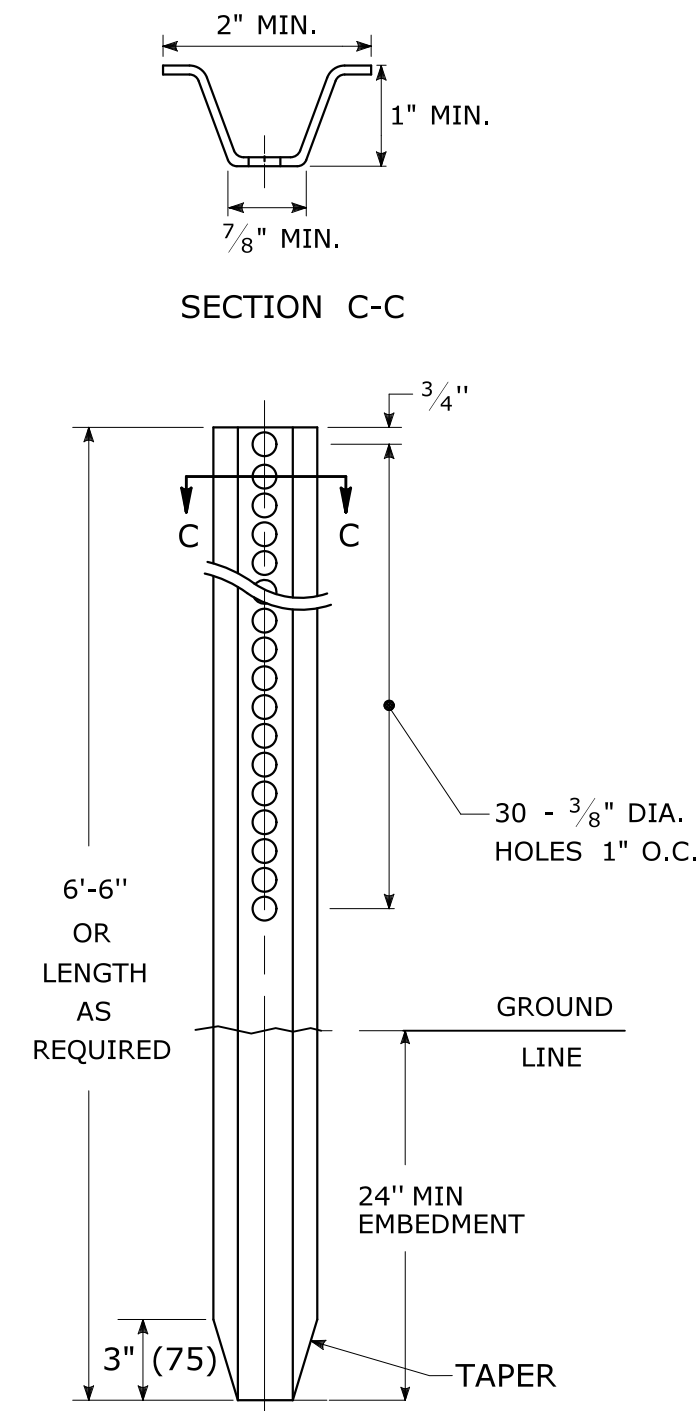
TYPICAL BACK-UP PLATE



BOLTS - STAINLESS STEEL CONFORMING TO ASTM F593, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).  
 SELF LOCKING NUTS - STAINLESS STEEL CONFORMING TO ASTM F594, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).  
 WASHERS - STAINLESS STEEL CONFORMING TO ASTM A240, (ALLOY TYPES 304 OR 316).

METAL DELINEATOR POST

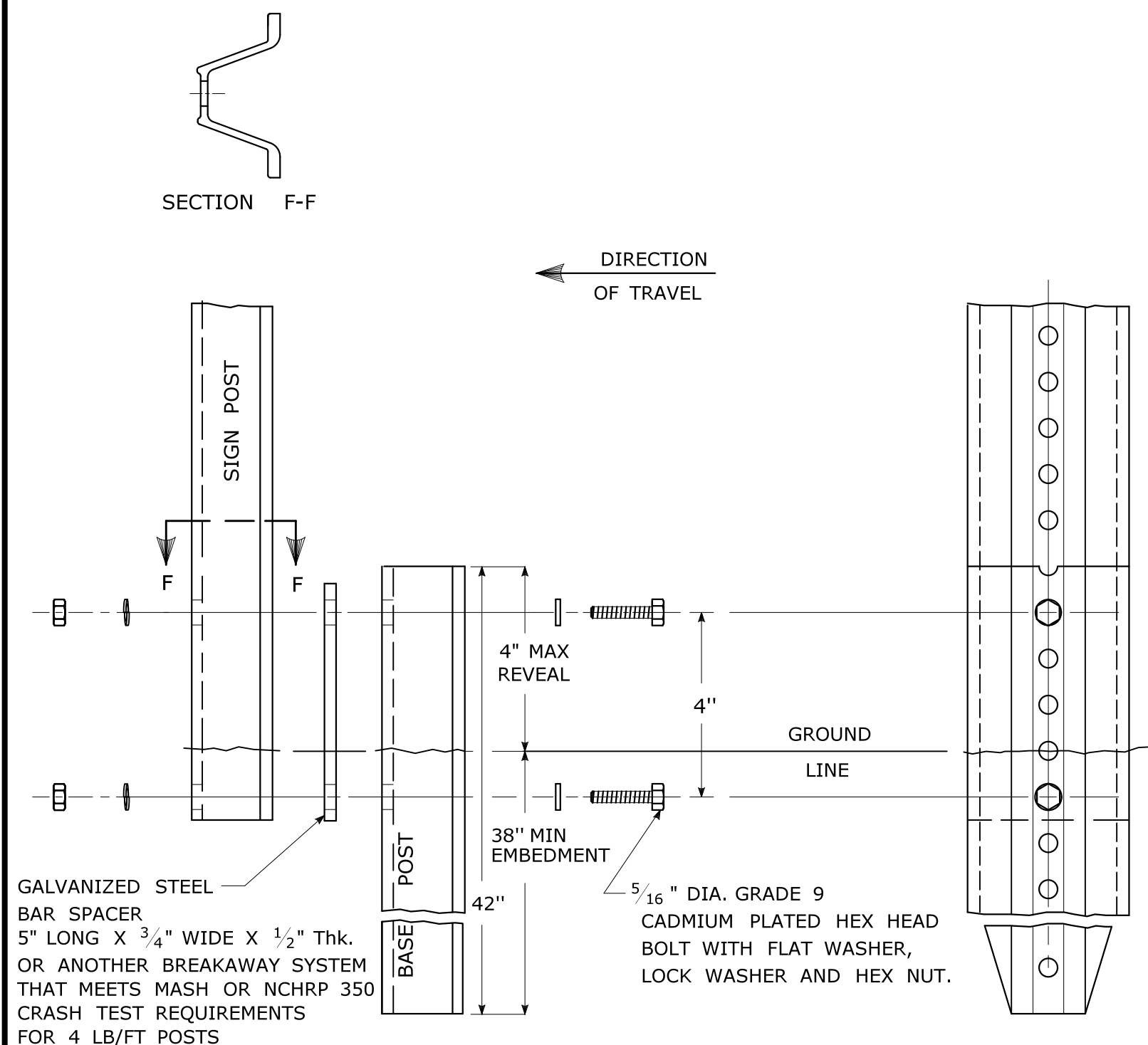
WT./FT. = 1.12 LBS./FT. MIN.



GENERAL NOTES:

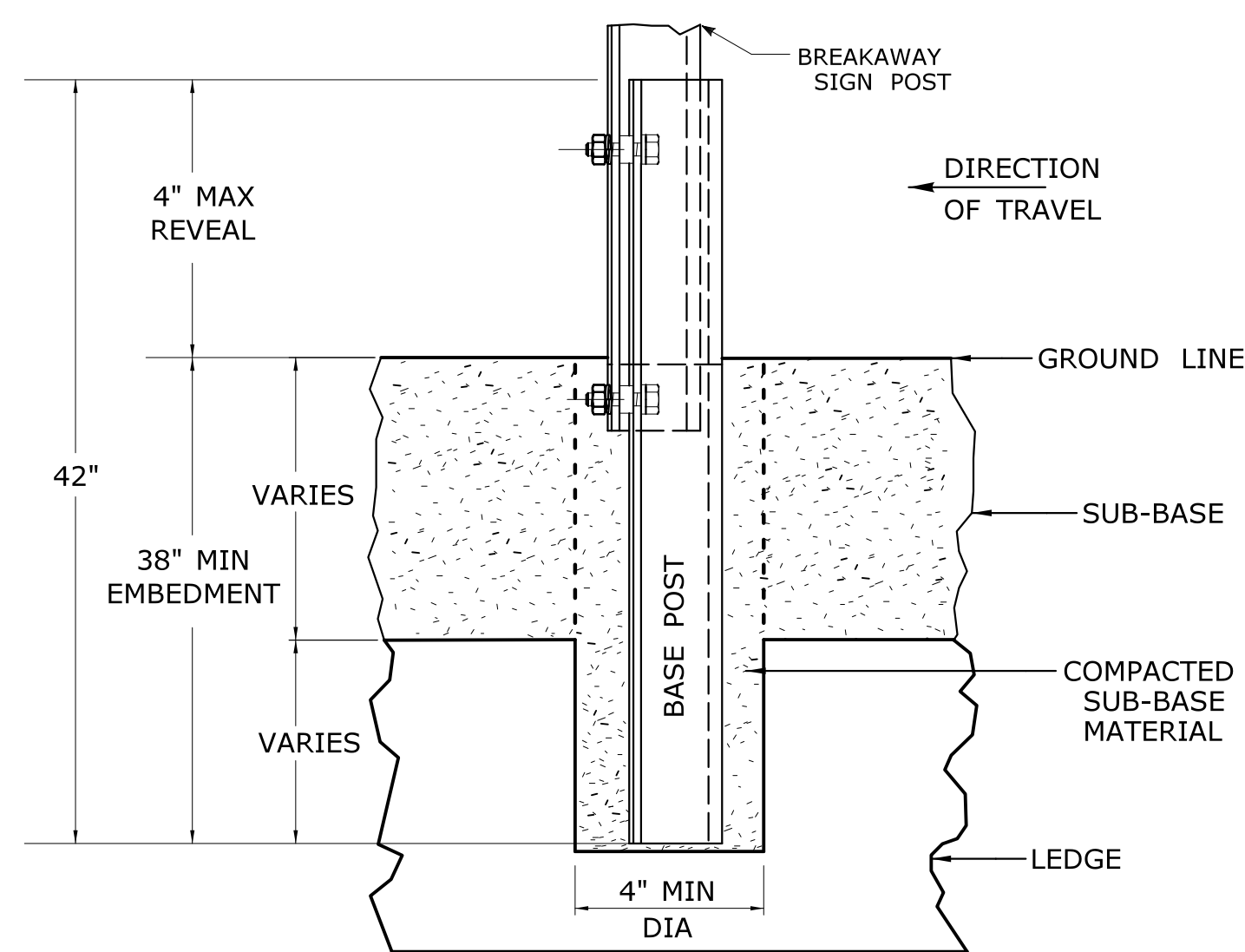
- STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36 STEEL. STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 80 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91 LBS. OR GREATER PER LINEAR YARD.
- AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123.
- WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
- SPACER BAR FOR BREAKAWAY INSTALLATION SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A36.
- ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153.
- ALL SIGN POSTS SHALL HAVE BREAKAWAY FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS." THE BREAKAWAY FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 MPH WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- SIGN POSTS SHALL BE 4 LBS./FT.

BREAKAWAY INSTALLATION FOR 4 LBS./FT. POSTS

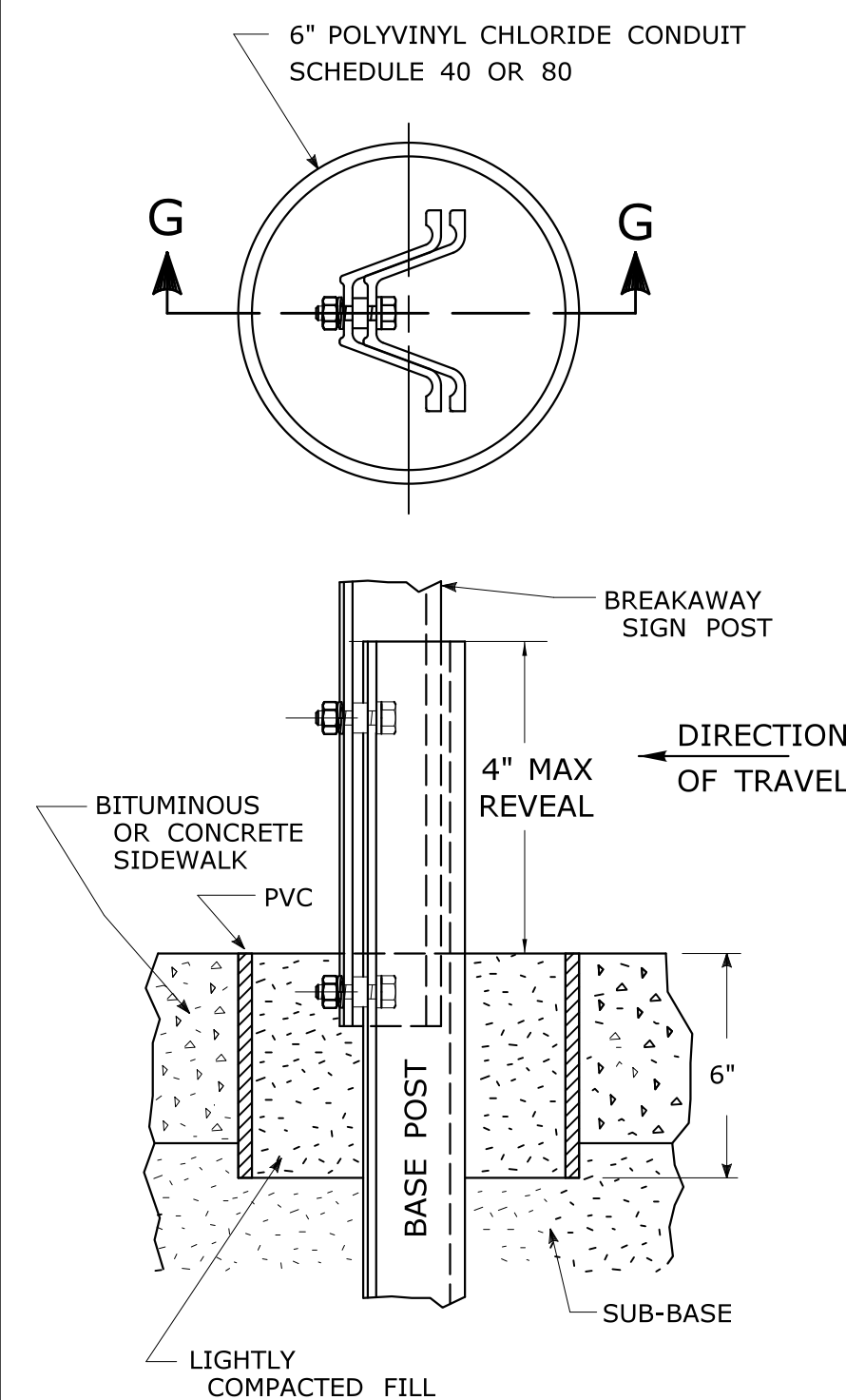


TYPICAL SIGN POST INSTALLATION IN LEDGE

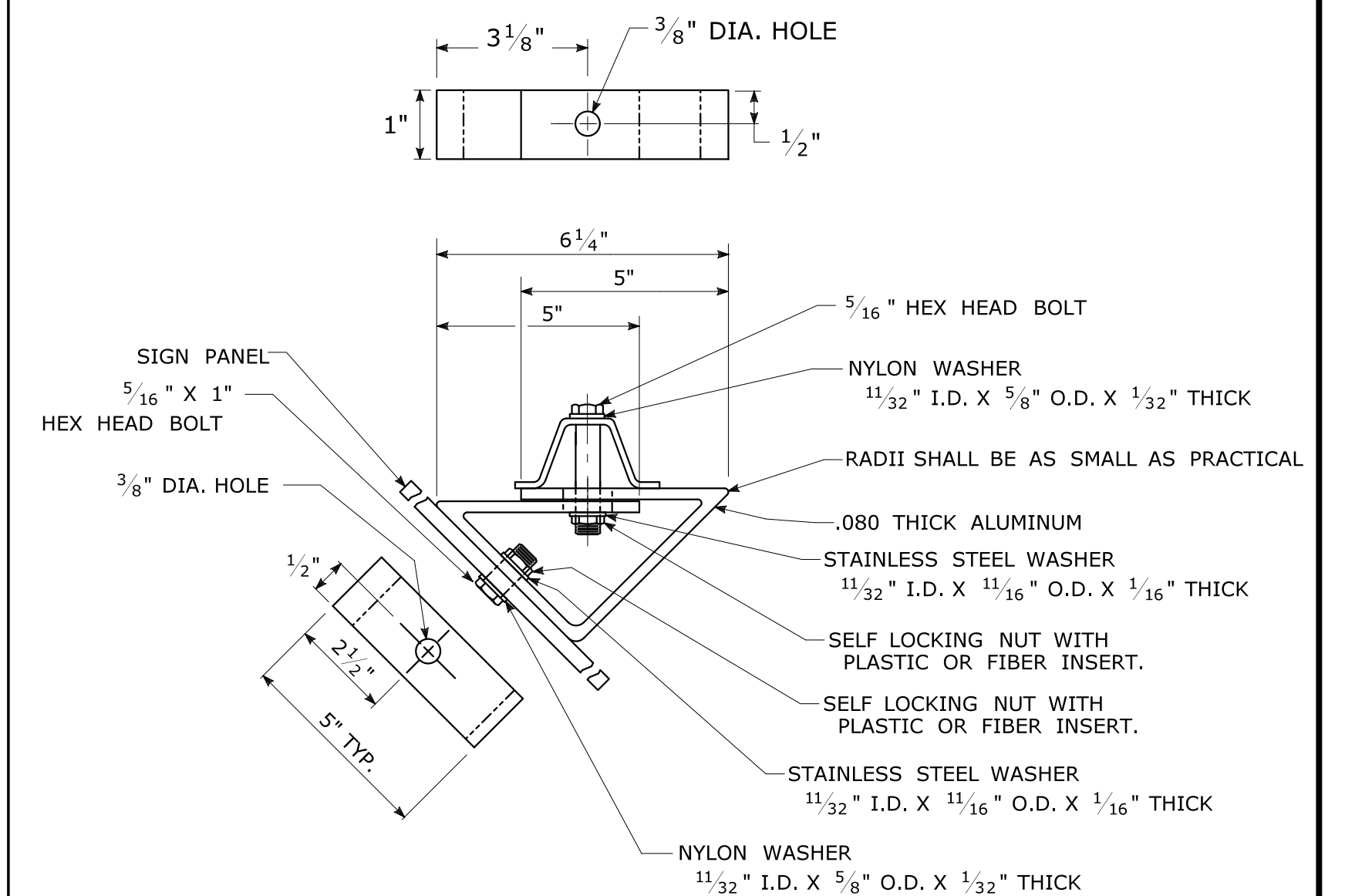
LEDGE SHALL BE REMOVED TO DRIVE THE BASE POST TO A DEPTH OF 38".  
 HOLE SHALL BE FILLED WITH SUB-BASE MATERIAL AND COMPACTED WITH A TAMPING BAR, OR TECHNIQUE APPROVED BY THE ENGINEER, PRIOR TO BASE POST INSTALLATION.



TYPICAL SLEEVE FOR PAVED AREAS



45° MOUNTING BRACKET FOR INSTALLATION OF PARKING SIGNS



REV.	DATE	REVISION DESCRIPTION
2	6-2017	SIGN POST REVISIONS.
1	2-2011	MINOR REVISIONS.

Plotted Date: 6/6/2017

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Filename: TR-1208\_02\_May\_2017\_Revision.dgn Model: TR-1208\_02

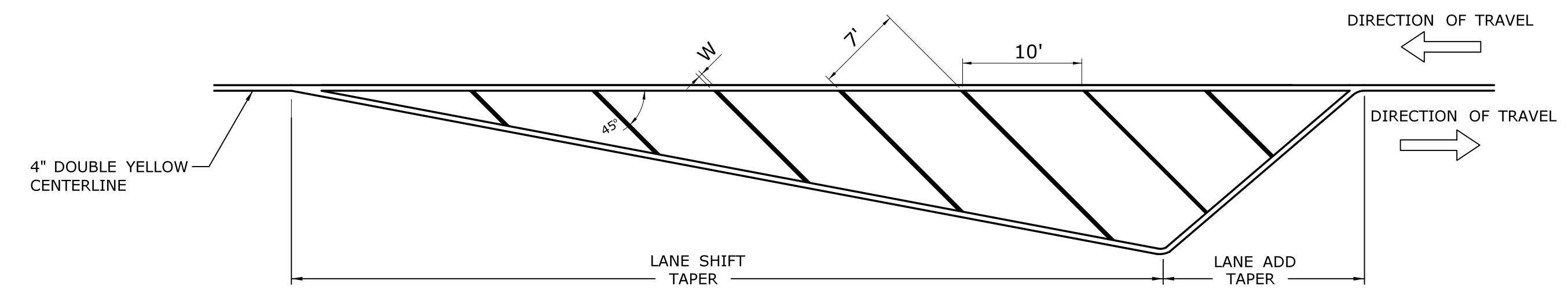
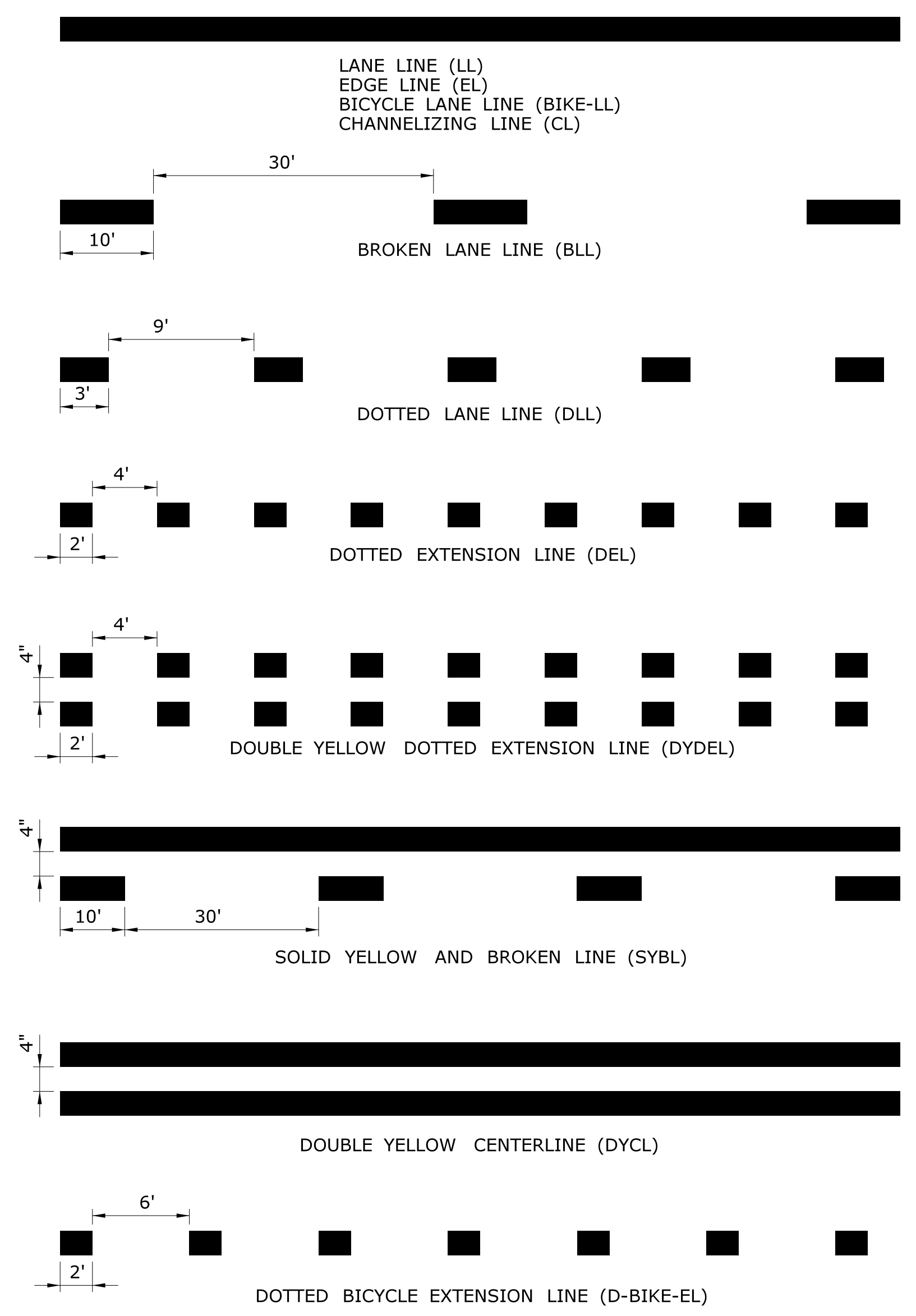
SUBMITTED BY: \_\_\_\_\_ NAME/DATE/TIME: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ NAME/DATE/TIME: \_\_\_\_\_

CTDOT  
 STANDARD SHEET  
 OFFICE OF ENGINEERING

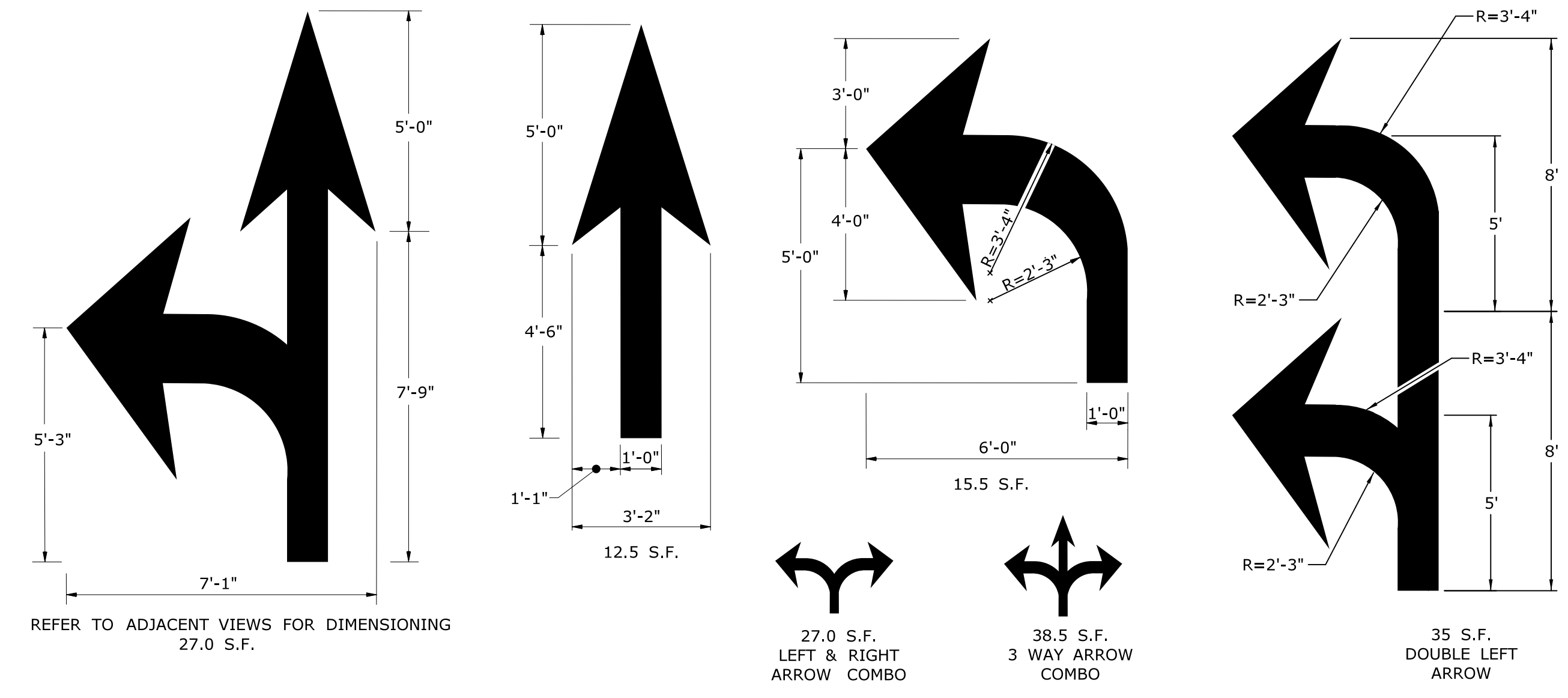
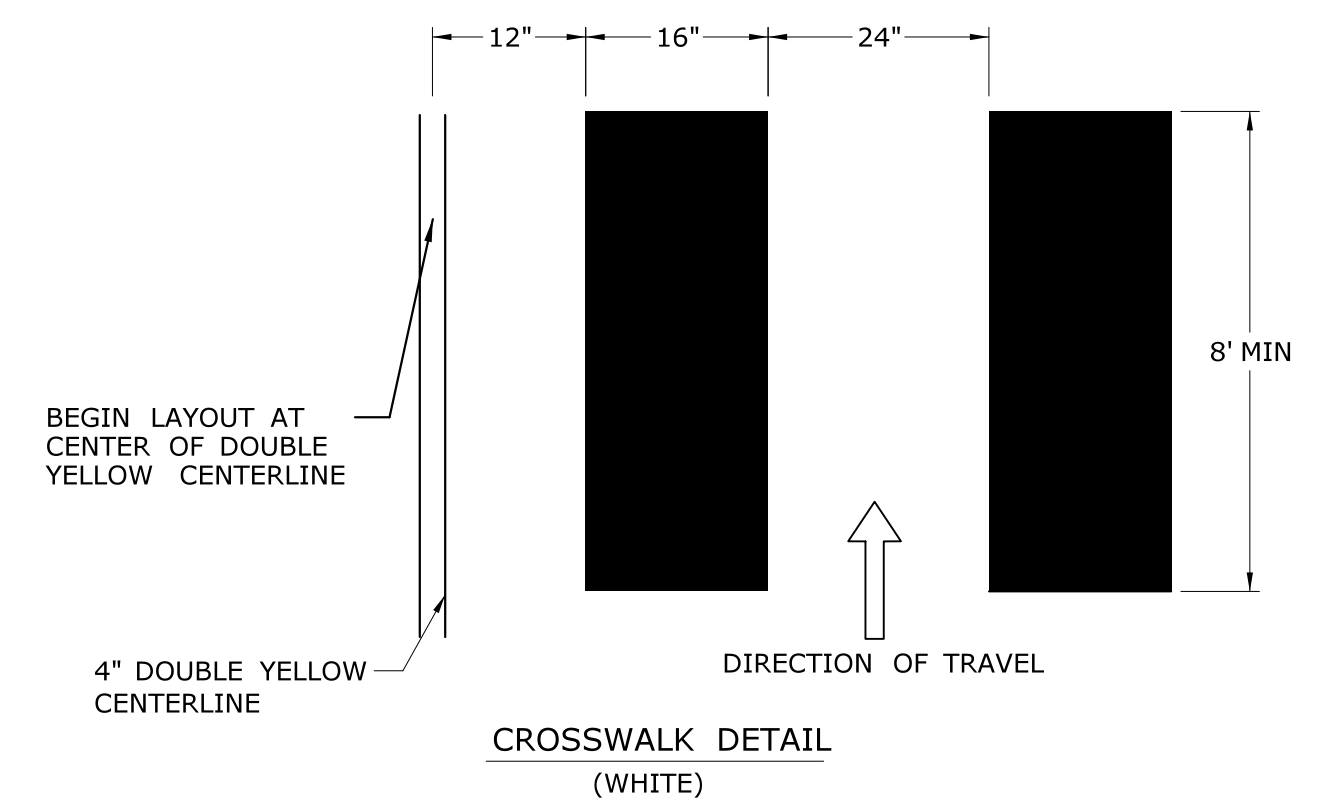
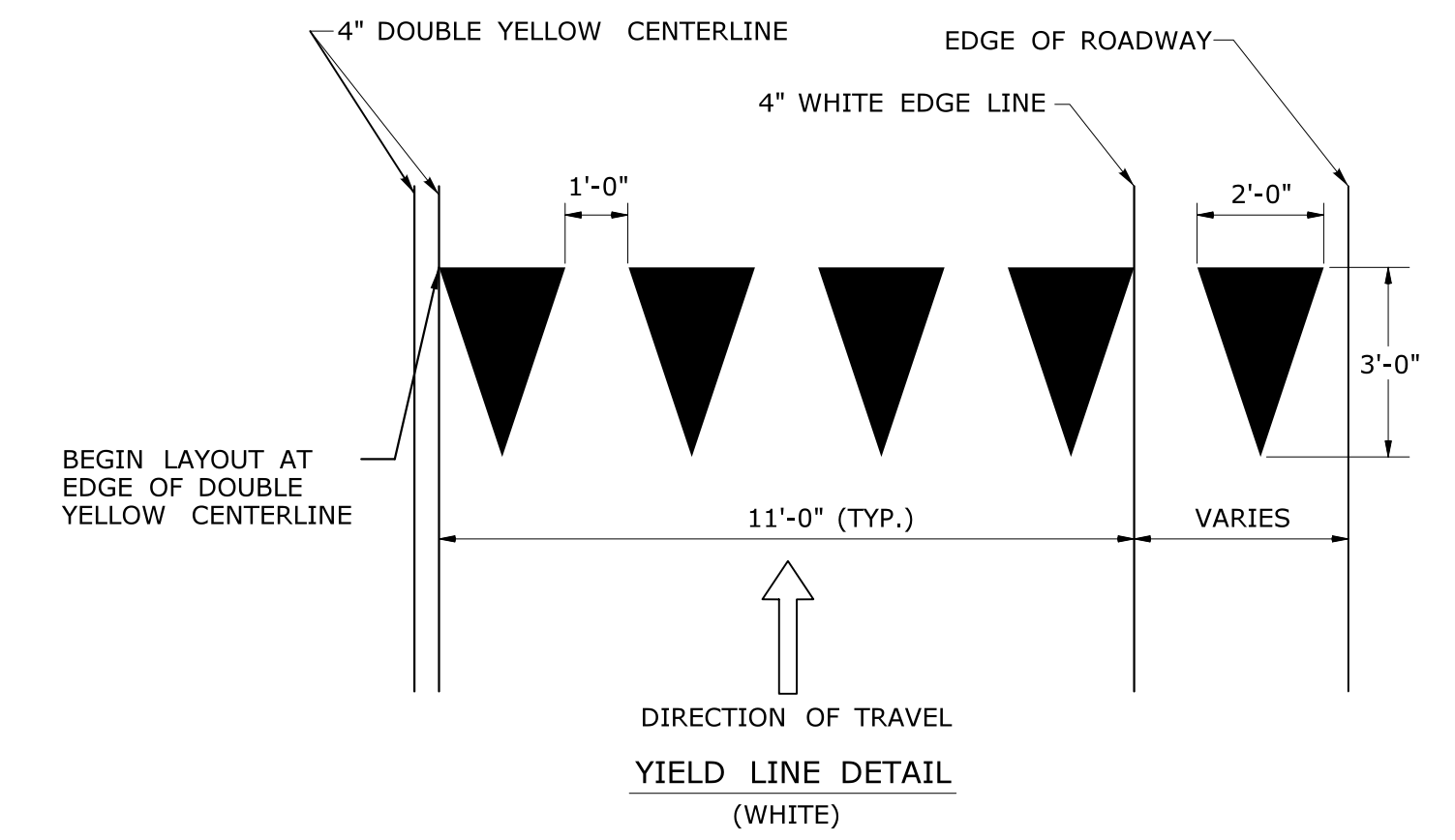
STANDARD SHEET TITLE: METAL SIGN POSTS AND SIGN MOUNTING DETAILS

GUIDE SHEET NO.: TR-1208\_02



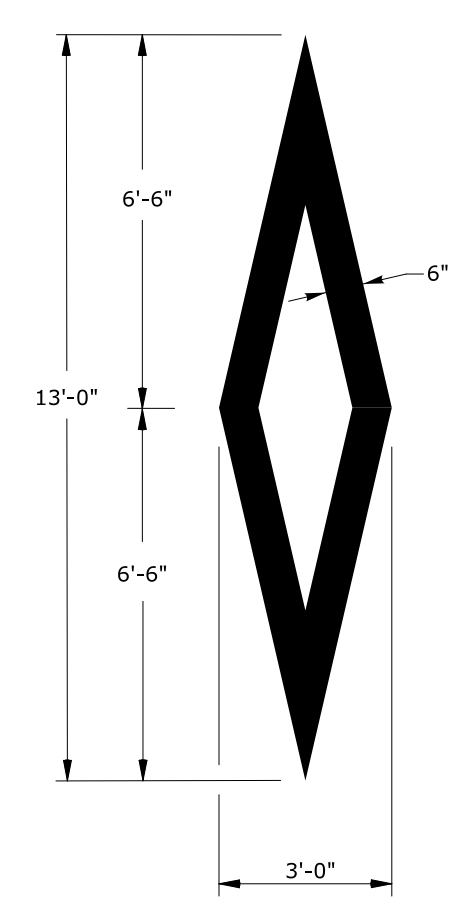
CROSS HATCHED ISLAND DETAIL  
(YELLOW)

W IS TO BE 6" WHEN POSTED SPEED ≤ 45 MPH  
W IS TO BE 12" WHEN POSTED SPEED > 45 MPH  
CROSS HATCHED ISLANDS ARE TO BE INSTALLED WHERE CALLED FOR ON THE PLANS

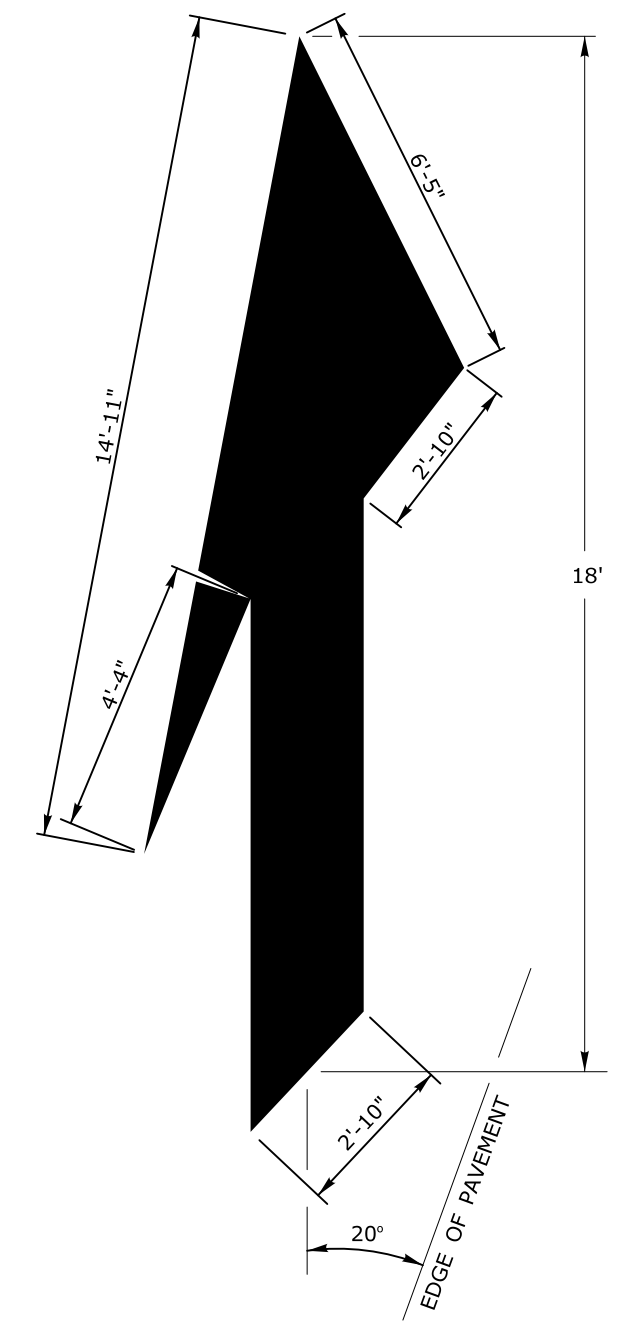


PAVEMENT ARROW DETAILS  
(WHITE)

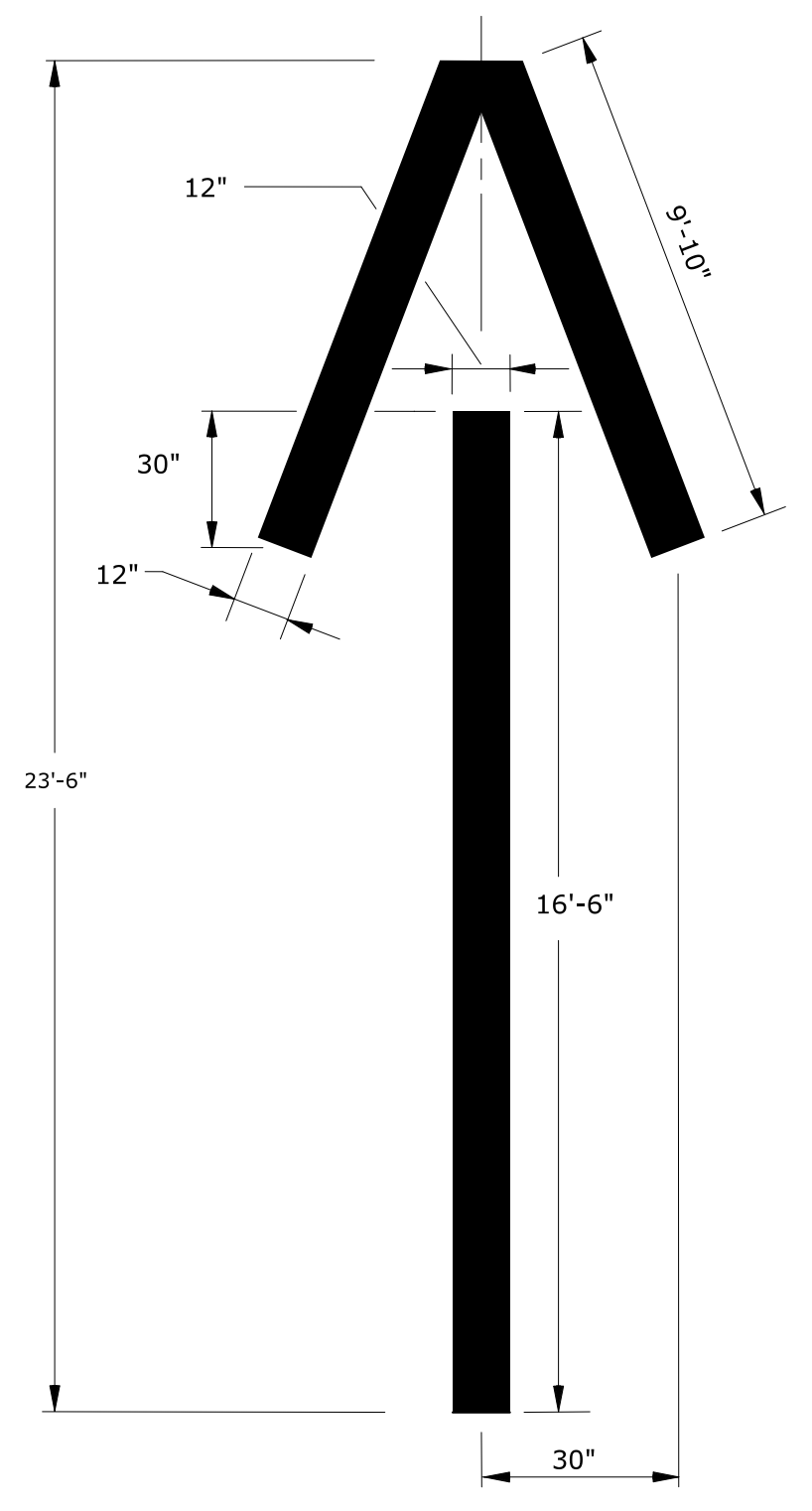
ARROWS SHALL BE CENTERED IN TRAVEL LANE



WHITE PREFERENTIAL LANE SYMBOL  
13.0 S.F.



WHITE LANE REDUCTION ARROW  
41.8 S.F.



WHITE WRONG WAY PAVEMENT ARROW  
36.2 S.F.

- NOTES :
1. AREA OF PAVEMENT MARKINGS AS INDICATED IS APPROXIMATE.
  2. RIGHT TURN PAVEMENT MARKING ARROWS ARE MIRROR IMAGE OF LEFT TURN PAVEMENT MARKING ARROWS.

REV.	DATE	REVISION DESCRIPTION
1	8-2018	REMOVED ROUNDABOUT MARKINGS.

Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

File name: TR-1210\_04.dgn Model: CT\_Civil\_2D\_Sheet

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT  
STANDARD SHEET  
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:  
**PAVEMENT MARKING LINES AND SYMBOLS**

STANDARD SHEET NO.:  
**TR-1210\_04**

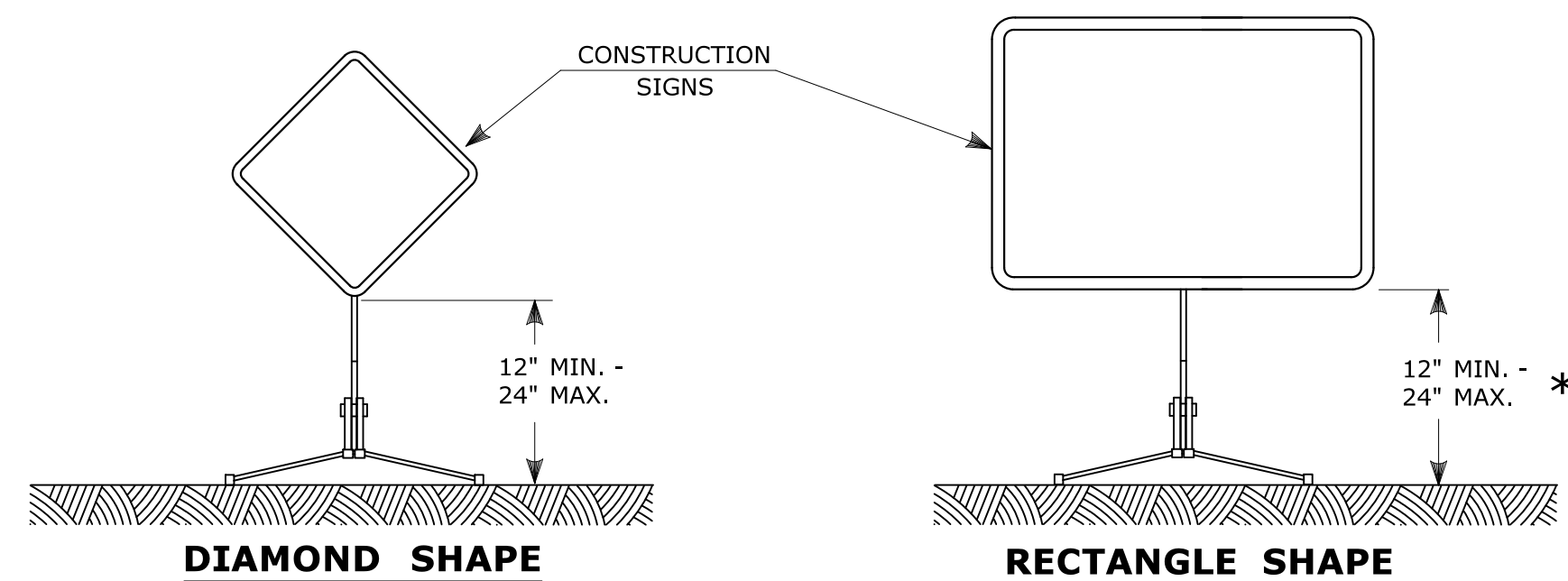


<b>E5 - SERIES</b>				<b>G20 - SERIES</b>				<b>M4 - SERIES</b>				<b>R1 - SERIES</b>				<b>R9 &amp; R11 - SERIES</b>				<b>W1 - SERIES</b>				<b>W3 - SERIES</b>																																																																																																																																																			
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9.0	36	80-9620	1																																																																																																																																																												
16.0	48	80-9625	2																																																																																																																																																												
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2.25	18	80-9950	PADDLE																																																																																																																																																												
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<p>NEW</p> <p>W16-15P</p> <p>COPY &amp; BORDER - BLACK BACKGROUND - ORANGE</p> <table border="1"> <thead> <tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> </thead> <tbody> <tr><td>2.0</td><td>24X12</td><td>80-9049</td><td></td></tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.0	24X12	80-9049		<p>ONE LANE ROAD AHEAD</p> <table border="1"> <thead> <tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> </thead> <tbody> <tr><td>9.0</td><td>36</td><td>80-9834</td><td>1</td></tr> <tr><td>16.0</td><td>48</td><td>80-9835</td><td>2</td></tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9834	1	16.0	48	80-9835	2	<p>LEFT LANE CLOSED (L) (R)</p> <table border="1"> <thead> <tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> </thead> <tbody> <tr><td>16.0</td><td>48</td><td>80-9846</td><td>2</td></tr> <tr><td>16.0</td><td>48</td><td>80-9849</td><td>2</td></tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9846	2	16.0	48	80-9849	2	<p>1 MILE</p> <p>VARIABLE MILEAGE</p> <table border="1"> <thead> <tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> </thead> <tbody> <tr><td>2.5</td><td>30X12</td><td>80-9872</td><td></td></tr> <tr><td>4.5</td><td>36X18</td><td>80-9873</td><td></td></tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.5	30X12	80-9872		4.5	36X18	80-9873		<p>W22-3</p> <table border="1"> <thead> <tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> </thead> <tbody> <tr><td>10.5</td><td>42X36</td><td>80-9623</td><td>2</td></tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9623	2	<p>END BLASTING ZONE</p> <p>W22-3</p> <table border="1"> <thead> <tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> </thead> <tbody> <tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2	<p>END BLASTING ZONE</p> <p>W22-3</p> <table border="1"> <thead> <tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> </thead> <tbody> <tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2	<p>END BLASTING ZONE</p> <p>W22-3</p> <table border="1"> <thead> <tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> </thead> <tbody> <tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2																																																				
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6	8-2018	REVISED POST REQUIREMENTS AND SHEETING TYPE.	<p>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.</p> <p>NOT TO SCALE</p> <p>Plotted Date: 8/10/2018</p>	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SUBMITTED BY: _____ NAME/DATE/TIME: _____ APPROVED BY: _____
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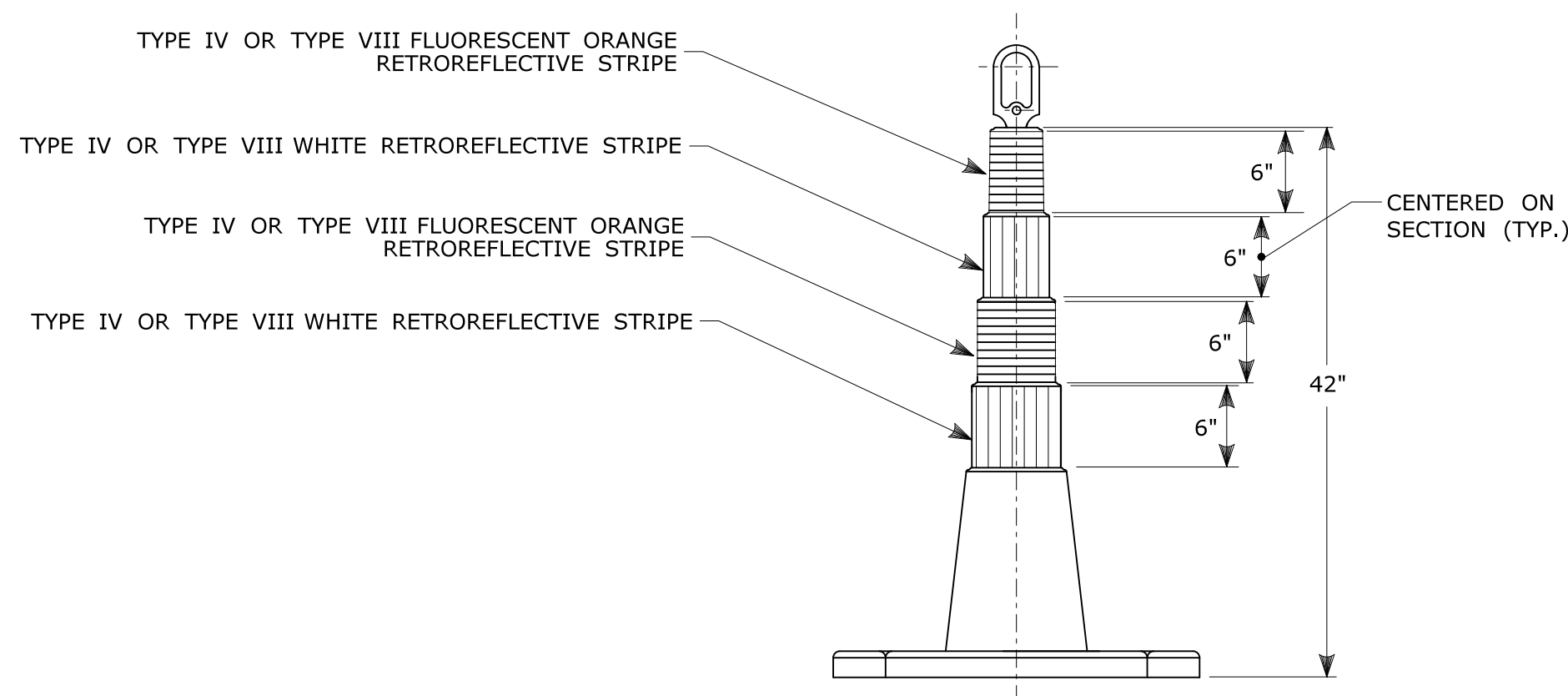


**PORTABLE CONSTRUCTION SIGNS**

NOTES FOR PORTABLE SIGN SUPPORTS:

- SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
- PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220.01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

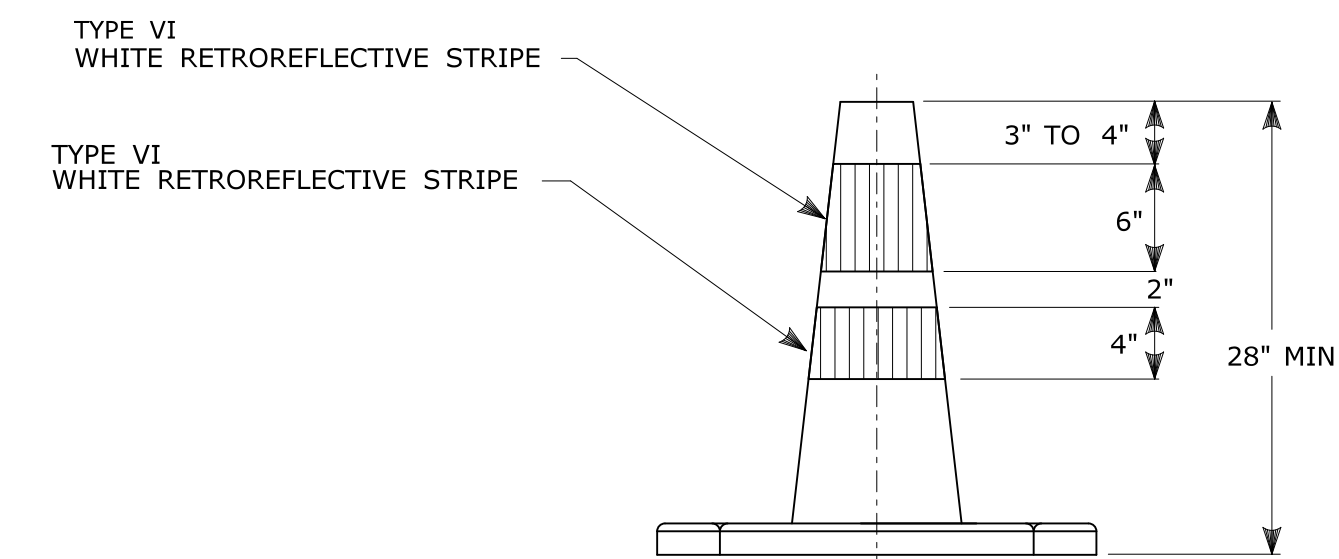
\* FOR E5-1 (EXIT SIGNS) USE MIN 48".



**42" TRAFFIC CONE**

NOTES:

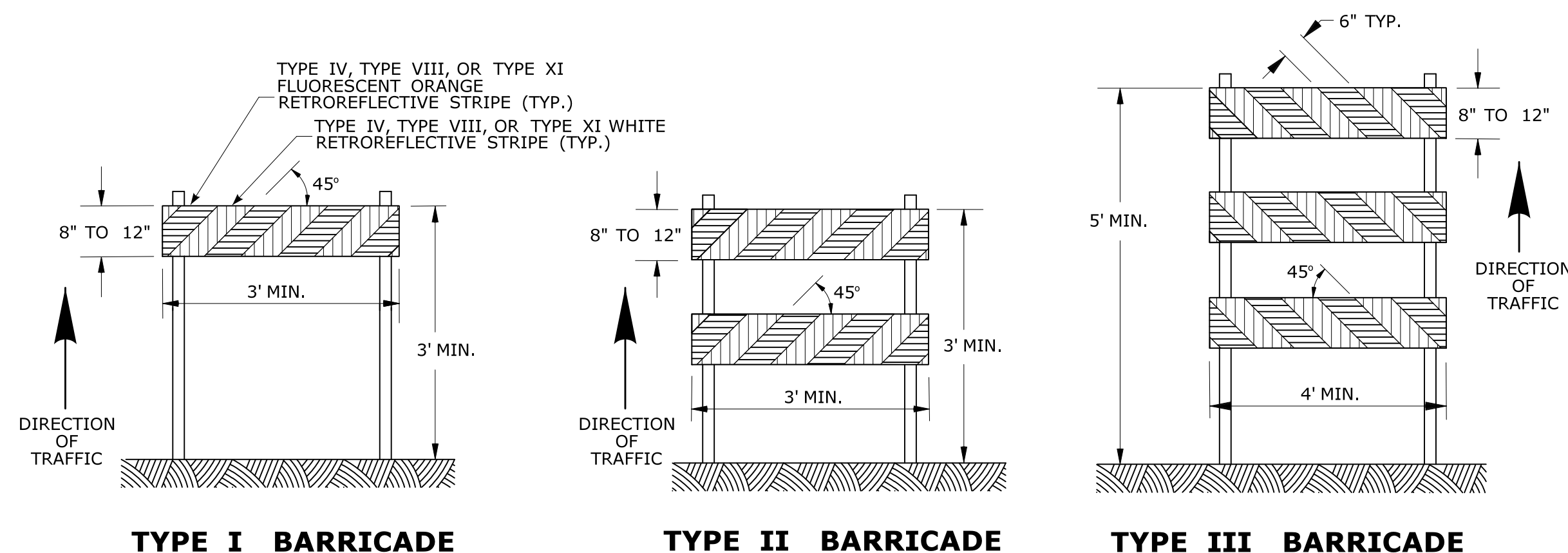
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



**TRAFFIC CONE**

NOTES:

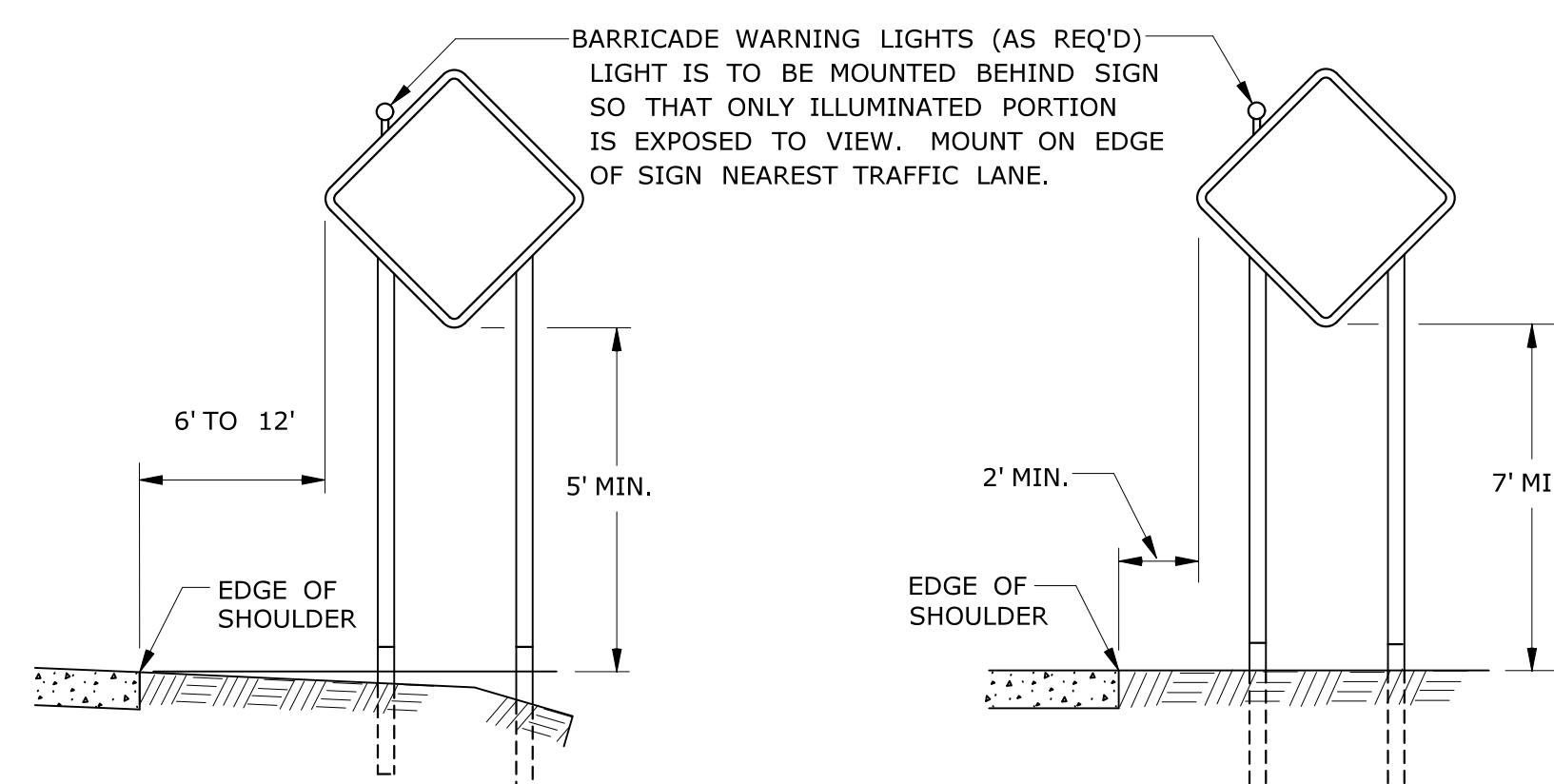
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- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



**CONSTRUCTION BARRICADES**

NOTES:

- CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE FLUORESCENT ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



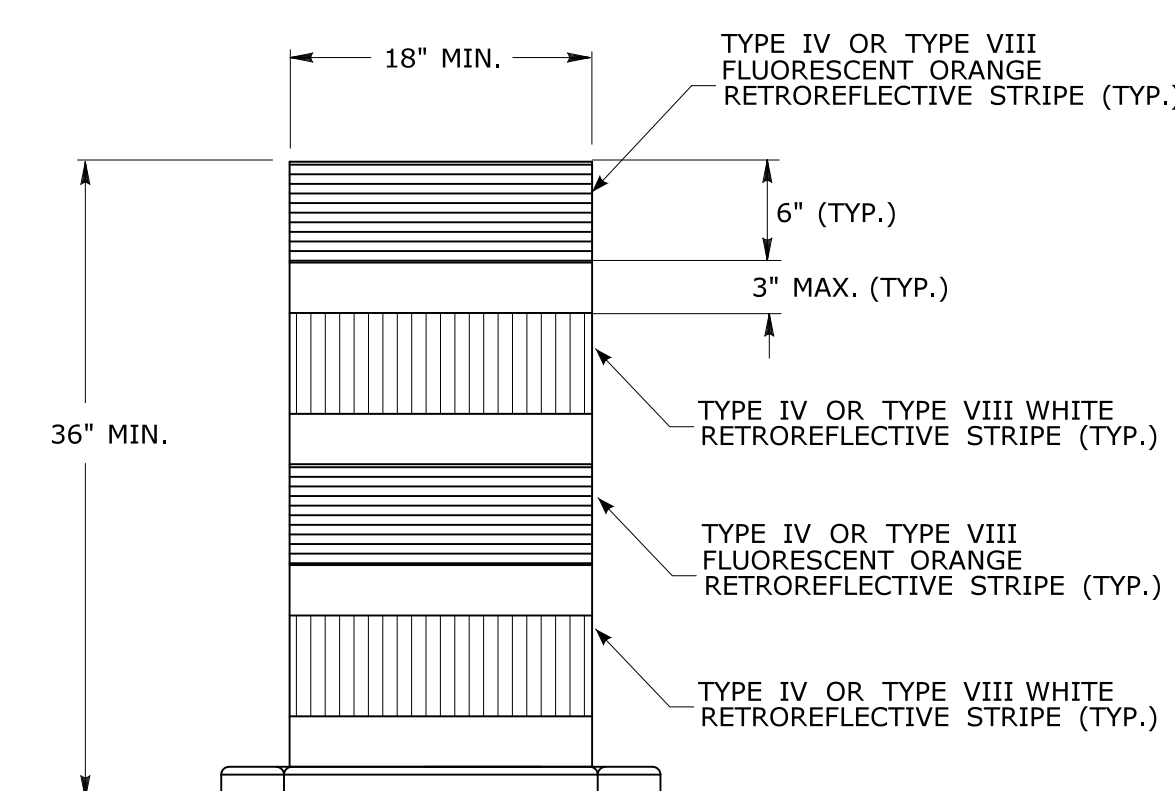
**RURAL AREA**

**URBAN AREA**

**PLACEMENT OF CONSTRUCTION SIGNS  
TYPICAL LONG TERM INSTALLATION**

NOTES:

- SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.
- REFER TO STANDARD SHEETS:  
 TR-1208.01 - "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS."  
 TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."



**TRAFFIC DRUM  
FRONT VIEW**

NOTES:

- TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

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.		<p><b>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</b></p>	SUBMITTED BY: _____ NAME/DATE/TIME: _____	<p><b>CTDOT STANDARD SHEET</b></p> <p><b>OFFICE OF ENGINEERING</b></p>	STANDARD SHEET TITLE:	STANDARD SHEET NO.:
3 8-2018 UPDATED SHEETING TYPE AND COLOR.	2 8-2015 UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.		APPROVED BY: _____ NAME/DATE/TIME: _____		<p><b>CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES</b></p>	<p><b>TR-1220_02</b></p>
1 2-2011 MINOR REVISIONS.	REV. DATE REVISION DESCRIPTION	NOT TO SCALE	Plotted Date: 8/10/2018	Filename: TR-1220.02.3.2018.dgn Model: TR-1220.02		