TOWN OF VERNON, CT

ROCKVILLE CENTER PEDESTRIAN IMPROVEMENTS

PRELIMINARY DESIGN
COMMUNITY CONNECTIVITY GRANT PROGRAM
OCTOBER 2023

LIST OF DRAWINGS		
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2	C-001	GENERAL NOTES, STANDARD ABBREVIATIONS, INDEX PLAN, AND LEGEND
3	C-101	VERNON AVE CONSTRUCTION PLAN
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12 - 21		CTDOT HIGHWAY STANDARD DETAIL SHEETS
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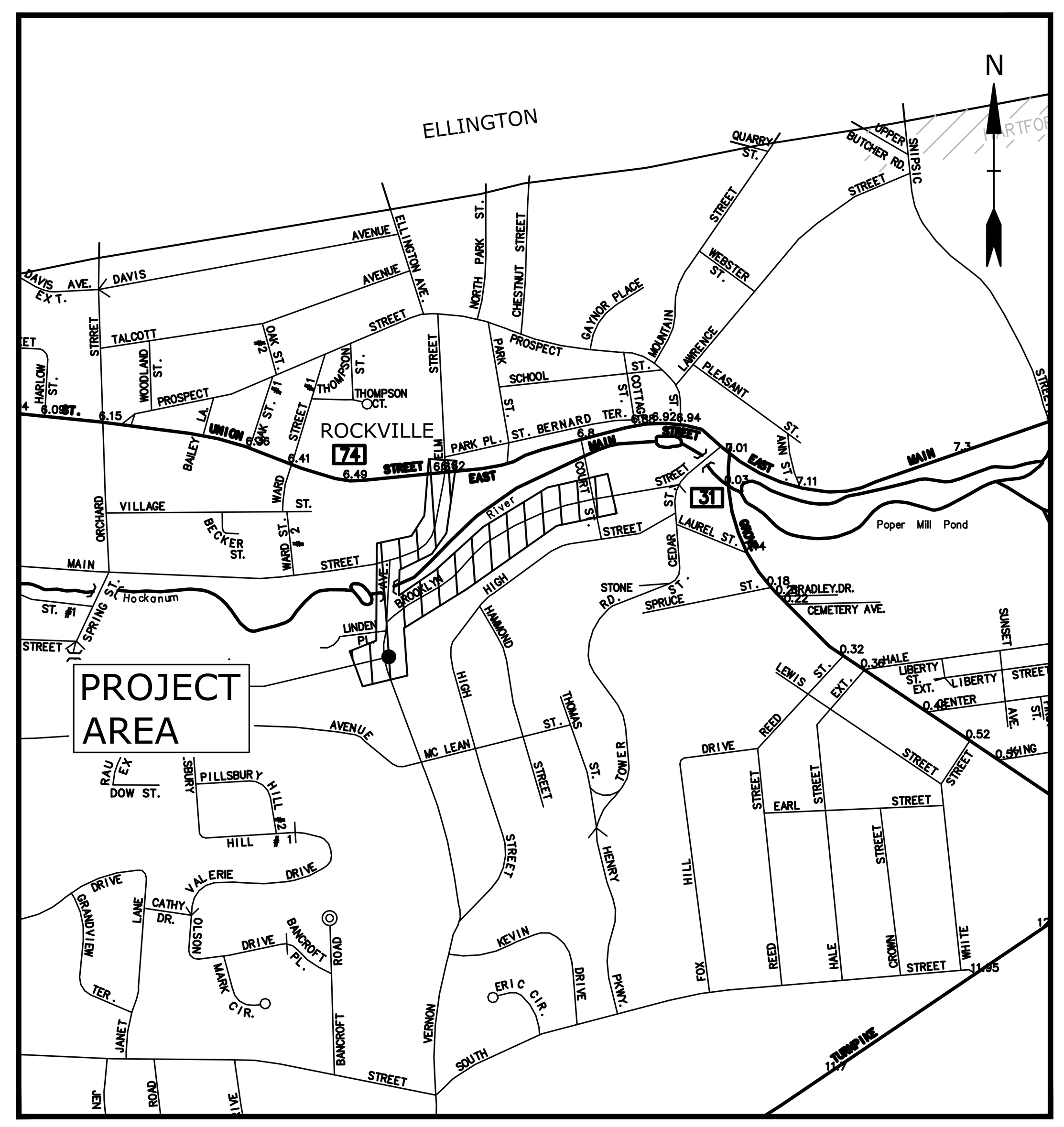

LOCATION MAP
SCALE: 1" = 1000'

PREPARED BY:
Tighe&Bond

PREPARED FOR:
TOWN OF VERNON
DANIEL A. CHAMPAGNE, MAYOR
NICHOLE GRECO, PROJECT COORDINATOR
DAVID SMITH, TOWN ENGINEER

COMPLETE SET 27 SHEETS

LEGEND

DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE		
RIGHT-OF-WAY LINE		
EASEMENT LINE		
INTERMEDIATE CONTOURS		
INDEX CONTOURS	25	25
SPOT GRADE	X 141.2	+ 32.0
STORM DRAIN	SD	SD
GRAVITY SANITARY SEWER	SS	
SANITARY SEWER FORCE MAIN	SFM	
SANITARY SEWER LOW PRESSURE	SSLP	
SANITARY SEWER COMBINED	COMB	
WATER SERVICE	W	
POTABLE WATER	PW	
UNDERGROUND ELECTRIC	E	
OVERHEAD ELECTRIC	OE	
TELEPHONE SERVICE	T	
TEL-DATA SERVICE	T-D	
COMMUNICATIONS SERVICE	T-C	
CABLE TV SERVICE	CTV	
GAS SERVICE	G	
CURB		
EDGE OF PAVEMENT		
DIRT ROAD		
SIDEWALK		
RETAINING WALL		
STONE WALL		
FENCE - UNSPECIFIED	X	
FENCE - CHAIN LINK		
FENCE - WOOD POST		
GUARDRAIL		
METAL BEAM RAIL		
TRAIN TRACKS		
STORM DRAIN STRUCTURES	MANHOLE D, CATCH BASIN CB	MANHOLE, AREA DRAIN, CATCH BASIN
SANITARY SEWER MANHOLE	S	
WATER SERVICE STRUCTURES	HYDRANT, MANHOLE W, VALVE	
GAS SERVICE STRUCTURES	MANHOLE G, VALVE, GG	
ELECTRIC SERVICE STRUCTURES	UTILITY CO. POLE #, MANHOLE E, LIGHT	
TELECOMMUNICATIONS MANHOLE	T	
TREELINE		
TREE	EVERGREEN, DECIDUOUS	EVERGREEN, DECIDUOUS

ABBREVIATIONS

ABDN('D)	ABANDON(ED)
AC	ASBESTOS CEMENT PIPE
BC	BITUMINOUS CURB
BFP	BACK FLOW PREVENTOR
BIT	BITUMINOUS
BL	BASELINE
BLDG	BUILDING
BND	BOUND
BOC	BOTTOM OF CURB
BOT	BOTTOM
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
CATV	CABLE TELEVISION
CB	CATCH BASIN
CEM	CEMENT
CI	CAST IRON PIPE
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
CPP	CORRUGATED POLYETHYLENE PIPE
CY	CUBIC YARD
DH	DRILL HOLE
DI	DUCTILE IRON PIPE
DIA	DIAMETER
DMH	DRAIN MANHOLE
E	EAST
EF	EACH FACE
EG	EXISTING GRADE
EL/ELEV	ELEVATION
ELEC	ELECTRIC
EMH	ELECTRIC MANHOLE
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EXIST	EXISTING
FES	FLARED END SECTION
FF	FINISH FLOOR
FM	FORCE MAIN
G	GAS
GG	GAS GATE
GRAN	GRANITE
HC	HANDICAP
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HYD	HYDRANT
IN	INCHES
INV	INVERT
IP	IRON PIN
L	LENGTH OF CURB
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
MJ	MECHANICAL JOINT

ABBREVIATIONS CONT'D

N	NORTH
NITC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
N/F	NOW OR FORMERLY
OC	ON CENTER
OCS	OUTLET CONTROL STRUCTURE
OH	OVERHEAD
PB	PLANT BED
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCPP	PERFORATED CORRUGATED POLYETHYLENE PIPE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYLCHLORIDE
PVMT	PAVEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REV	REVISION
ROW	RIGHT OF WAY
RT	RIGHT
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
S	SOUTH
SAN	SANITARY
SCH	SCHEDULE
SF	SQUARE FOOT
SMH	SEWER MANHOLE
SS	STAINLESS STEEL
STA	STATION
STL	STEEL
STRM	STORM
T	TANGENT LENGTH
TC	TOP OF CURB
TEL	TEL-DATA
TP	TEST PIT
TS	TOP OF STEP
TW	TOP OF WALL
TYP	TYPICAL
UP	UTILITY POLE
W	WATER
WG	WATER GATE
WV	WATER VALVE
XFMR	TRANSFORMER

GENERAL NOTES:

1. EXISTING CONDITIONS MAPPING FOR REPAIRS AND IMPROVEMENTS ON VERNON AVE, BROOKLYN ST, AND WEST MAIN ST WERE COMPILED USING AVAILABLE AERIAL IMAGERY AND GIS MAPPING.
2. SURVEY INFORMATION, WHERE SHOWN, IS BASED OFF MAP ENTITLED "TOPOGRAPHIC SURVEY EXISTING CONDITIONS PLAN RAIL TO TRAIL EXTENSION PROJECT," PREPARED BY MARTINEZ COUCH & ASSOCIATES LLC, DATED SEPTEMBER 18, 2023
3. THE STANDARD SPECIFICATIONS SHALL FOLLOW THE STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 818, 2020, INCLUDING ALL SUPPLEMENTS THERETO.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE POLICE ON A DAILY BASIS, TO INFORM THEM OF CONSTRUCTION ACTIVITY ON THE PROJECT, INCLUDING CHANGES IN TRAFFIC PATTERNS.
5. ALL TRAFFIC CONTROL, INFORMATIONAL, DIRECTION, OR STREET NAME SIGNS REMOVED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION, WILL BE REPLACED BY THE CONTRACTOR AS SOON AS PRACTICABLE AFTER PARTICULAR WORK HAS BEEN COMPLETED.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR IN EVALUATING THESE PLANS TO MAKE EXAMINATIONS IN THE FIELD BY VARIOUS METHODS AND OBTAIN NECESSARY INFORMATION FROM AVAILABLE RECORDS, UTILITY COMPANIES, AND INDIVIDUALS AS TO THE LOCATION OF SUBSURFACE STRUCTURES.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE DRAWINGS, SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE TOWN IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE TOWN SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH ALL REGULATIONS AND CODES.
8. AS CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS, ETC. AND RESTORE OR REPLACE ANY DAMAGE TO STREETSCAPE AND LANDSCAPING OUTSIDE OF THE PROJECT AREA.
9. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES REGARDING ALL UTILITY BOXES, FRAMES, AND GRATES, ETC. AFFECTED BY THE CONSTRUCTION ACTIVITIES. ALL UTILITIY FACILITIES THAT ARE NOT IDENTIFIED AS BEING REMOVED SHALL BE RESET OR RECONSTRUCTED (AS REQUIRED) TO THE PROPER GRADE. ALL UTILITY GRATES, COVERS, ETC THAT FALL WITHIN THE SIDEWALK SHALL BE ADA COMPLIANT.
10. EXCAVATION OF ANY TYPE SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT UNDERGROUND UTILITIES OR STRUCTURES NOT IDENTIFIED FOR REMOVAL ARE NOT DAMAGED. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY FOR ANY DAMAGE INCURRED TO THESE FACILITIES DURING EXCAVATION OPERATIONS. ALL EXCAVATION SHALL BE IN CONFORMANCE WITH THE LATEST OSHA REQUIREMENTS.
11. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PROTECT ALL DRIVEWAYS, ROADS, CURBING, LANDSCAPING, WALLS, STAIRS, SIDEWALKS, ETC. PROTECTION MEASURES WILL NOT BE MEASURED FOR PAYMENT AND SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. ANY DISTURBANCE AND/OR DAMAGE TO SUCH FEATURES SHALL BE RESTORED, REPAIRED, OR REPLACED TO THEIR ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE TOWN.
12. THE CONTRACTOR SHALL SUFFICIENTLY COVER ALL DISTURBED AREAS AT THE END OF EACH WORK DAY TO AVOID ANY RISK OF INJURY TO PEDESTRIAN OR VEHICULAR TRAFFIC. THE CONTRACTOR SHALL INSTALL TEMPORARY SUPPORT SYSTEMS OVER TRENCH EXCAVATIONS THAT ARE TAMPER RESISTANT AND SAFE FOR VEHICULAR AND PEDESTRIAN TRAFFIC. THE CONTRACTOR SHALL INSTALL BARRICADES AND FENCES TO PROTECT AGAINST PEDESTRIAN ACCESS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE TEMPORARY SAFETY MEASURES BY THE ENGINEER.
13. THE CONTRACTOR SHALL RECORD THE LOCATIONS OF ALL UNDERGROUND UTILITIES INSTALLED OR FOUND DURING CONSTRUCTION. THE UTILITIES SHALL BE MEASURED FROM PERMANENT SURFACE FEATURES AND COMPILED BY THE CONTRACTOR ON RECORD DRAWINGS.
14. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE TOWN.
15. THE CONTRACTOR SHALL NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY PROPERTY OWNERS OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE TOWN. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ANY TOWN OF WESTPORT AND CTDOT PERMITS FOR WORK WITHIN ROAD RIGHT OF WAY. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE, AND PROVIDE TRAFFIC PROTECTION NECESSARY FOR THIS WORK.
17. THE CONTRACTOR SHALL CONFIRM PROJECT LIMITS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS.
18. ALL DISTURBED LAWN AREAS NOT OTHERWISE INDICATED IN THE CONTRACT DRAWINGS SHALL BE TOPSOILED AND SEEDED.
19. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TREES, STUMPS, BRUSH, RUBBISH, EXISTING PAVEMENTS, SIDEWALKS, CURBING, BASES, SUBBASE, EARTH, ETC., AND ALL OTHER MATERIAL WITHIN THE LIMITS OF WORK, WHERE SPECIFIED AND SUITABLY GRADE AND COMPACT THE AREA TO THE LINES AND GRADES SHOWN ON THE CONTRACT DRAWINGS.
20. THE CONTRACTOR SHALL SWEEP AND USE OTHER METHODS AS NECESSARY TO KEEP ADJACENT STREETS AND PRIVATE PROPERTIES CLEAN OF MUD, DIRT, AND DEBRIS CAUSED BY PROJECT ACTIVITIES. SUCH SWEEPING OR OTHER METHODS SHALL BE COMPLETED ON A DAILY BASIS WHEN MUD, DIRT, OR DEBRIS HAS BEEN DEPOSITED ON A STREET.
21. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL HOUSES, DRIVEWAYS, ETC. DURING CONSTRUCTION ACTIVITIES AND PROVIDE AS NECESSARY PROCESSED GRAVEL, TEMPORARY PAVEMENT, RAMPS, WALKS, ETC. TO MAINTAIN ACCESSIBILITY. PROCESSED GRAVEL WILL ONLY BE USED WHERE APPROVED BY THE ENGINEER FOR A WEARING SURFACE. ALL TEMPORARY ACCESSIBLE ROUTES SHALL BE BITUMINOUS CONCRETE SURFACE OR BETTER. THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH INDIVIDUAL OWNERS AND THE TOWN SO AS TO PROVIDE THE LEAST DISTURBANCE POSSIBLE.
22. PRIOR TO CONSTRUCTION ACTIVITIES, ALL SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH AND IN THE LOCATIONS SHOWN IN THE CONTRACT DOCUMENTS OR AT THE DIRECTION OF THE TOWN.
23. ALL EXISTING PLANTS AND TREES NOT REQUIRING REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND RESTORATIONS OF ALL PROPERTY LINE MONUMENTATION. THE RESETTING OF PROPERTY LINE MONUMENTATION SHALL BE DONE BY A LAND SURVEYOR LICENSED IN THE STATE OF CONNECTICUT.
25. ALL MAIL BOXES REQUIRED TO BE REMOVED AND RESET OR REBUILT AS NOTED TO PERFORM THE WORK SHALL BE PAID FOR UNDER CLEARING AND GRUBBING. LOCATIONS OF RELOCATED MAILBOXES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

INDEX PLAN
SCALE: 1" = 200'

Tighe&Bond

PRELIMINARY DESIGN

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ROCKVILLE CENTER PEDESTRIAN IMPROVEMENTS

TOWN OF VERNON, CT

MARK	DATE	DESCRIPTION

PROJECT NO:	V0037-018
DATE:	10/23/2023
FILE:	V0037-018-C-001-GN.dwg
DRAWN BY:	JCB
DESIGNED/CHECKED BY:	JCB/DH
APPROVED BY:	COG

GENERAL NOTES, STANDARD ABBREVIATIONS, INDEX PLAN, AND LEGEND

SCALE: NO SCALE

C-001

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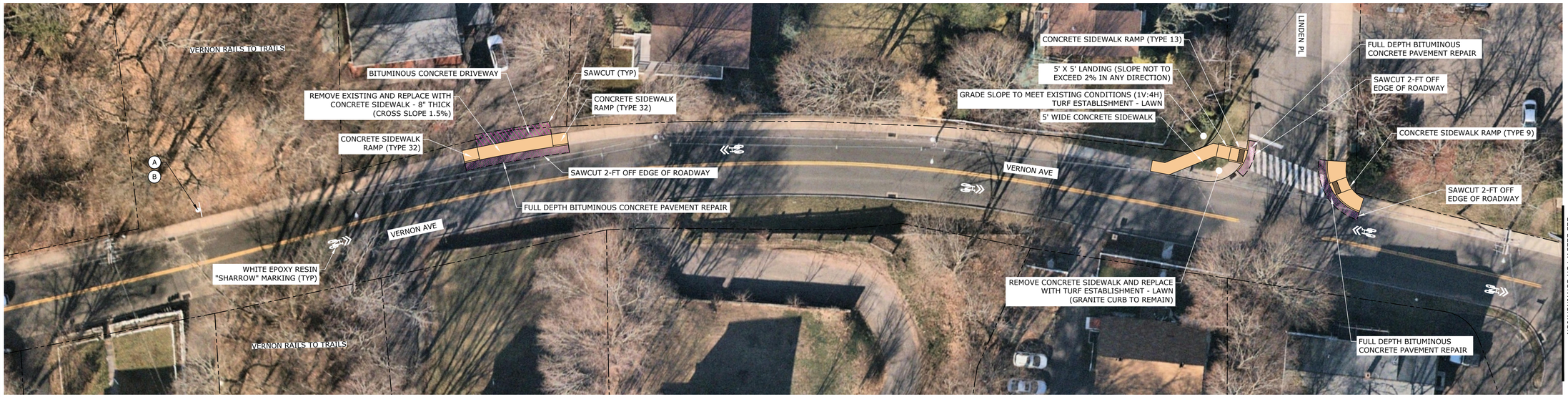

GENERAL NOTES

1. CONCRETE SIDEWALK AND DRIVEWAY WIDTHS TO MATCH EXISTING CONDITIONS UNLESS OTHERWISE INDICATED ON THE PLANS.
2. CONTRACTOR TO SAWCUT AND REPAIR BITUMINOUS CONCRETE PAVEMENT 3 FEET OFF THE FACE OF CONCRETE DRIVEWAYS, SIDEWALK RAMPS, AND CURBS. THIS SHALL BE THE MAXIMUM PAY LIMITS OF SUCH RESTORATIONS UNLESS OTHERWISE APPROVED BY THE TOWN.
3. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY AT ALL TIMES. DEMOLITION, CONCRETE AND BITUMINOUS CONCRETE PLACEMENT SHALL BE SCHEDULED IN SUCH A MANNER THAT MAINTAINS ACCESS AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT CURING TIME PRIOR TO ALLOWING VEHICULAR TRAFFIC OVER CONCRETE DRIVEWAYS.
4. TYPICAL CROSS SLOPES OF CONCRETE DRIVEWAYS AND SIDEWALKS SHALL BE 1.5%. IN NO CASE SHALL THE CROSS SLOPE OF CONCRETE DRIVEWAYS AND SIDEWALKS EXCEED 2% PER ADA GUIDELINES. IF FIELD CONDITIONS MAKE CROSS SLOPE REQUIREMENTS INFEASIBLE, NOTIFY THE ENGINEER PRIOR TO PERFORMING WORK IN THE AREA.
5. TYPICAL LONGITUDINAL SLOPES OF CONCRETE SIDEWALK RAMPS SHALL BE 7.5%. IN NO CASE SHALL THE CROSS SLOPE OF CONCRETE SIDEWALK RAMPS EXCEED 8.33% PER THE CTDOT HIGHWAY GUIDESHEET DETAILS AND ADA GUIDELINES. IF FIELD CONDITIONS MAKE LONGITUDINAL SLOPES AT SIDEWALK RAMPS INFEASIBLE, NOTIFY THE ENGINEER PRIOR TO PERFORMING WORK IN THE AREA.
6. ALL NEW CONCRETE SIDEWALKS, RAMPS, CURBS, AND DRIVEWAYS SHALL MEET EXISTING CONDITIONS AT THE NEAREST EXPANSION JOINT. IN LOCATIONS WHERE THE DRAWINGS DO NOT ACCURATELY PORTRAY CONCRETE JOINTS, THE CONTRACTOR SHALL EXPAND THE LIMIT OF WORK SO THAT ALL WORK MEETS AN EXISTING EXPANSION JOINT. NEW SIDEWALK SHALL BE DOWELED INTO EXISTING SIDEWALK AT EXPANSION JOINTS.
7. RAISE ALL SIGNS TO 7' ABOVE THE SIDEWALK AND INSTALL ON BREAK-AWAY POST. SIGN PLACEMENT TO BE VERIFIED IN THE FIELD WITH THE ENGINEER, AND LOCATED ACCORDING TO TR-1208_01.
8. NO PONDING SHALL BE CREATED BY THE INSTILLATION OF NEW CURBING AND SIDEWALK. NOTIFY THE ENGINEER OF ANY EXISTING PONDING ISSUES PRIOR TO COMPLETING WORK IN THE AREA.
9. CONTRACTOR SHALL CLEAR TREES AND BRUSH AS REQUIRED FOR INSTALLATION OF SIDEWALKS (PAID UNDER CLEARING AND GRUBBING).
10. ALL STRUCTURES (MANHOLES, CURB BOXES, METER COVERS, ETC) LOCATED WITHIN THE SIDEWALK SHALL BE RESET TO FINISHED GRADE. THERE WILL BE NO SEPARATE PAYMENT FOR SUPPLYING THE MATERIALS AND PERFORMING SUCH ADJUSTMENTS. ALL LIDS ON STRUCTURES SHALL BE ADA COMPLIANT.

CONSTRUCTION PLAN LEGEND

- SAWCUT
- GRANITE CURB
- CONCRETE SIDEWALK
- DETECTABLE WARNING STRIP
- BITUMINOUS CONCRETE DRIVEWAY
- FULL DEPTH BITUMINOUS CONCRETE ROADWAY REPAIR

SIGN LEGEND

A	B	C	D	E	F	G	H	I
SPEED LIMIT 25	NO PARKING ANY TIME	NO PARKING FIRE LANE	1 HOUR PARKING		AHEAD			YIELD HERE TO
31-5504	31-0630	31-0650	31-0645	41-4829	31-6127	41-2607	41-5006	31-0510

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

Tighe&Bond

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DESIGNED/CHECKED BY:	JCB/DH
APPROVED BY:	COG

VERNON AVE CONSTRUCTION PLAN

SCALE: AS SHOWN

C-101

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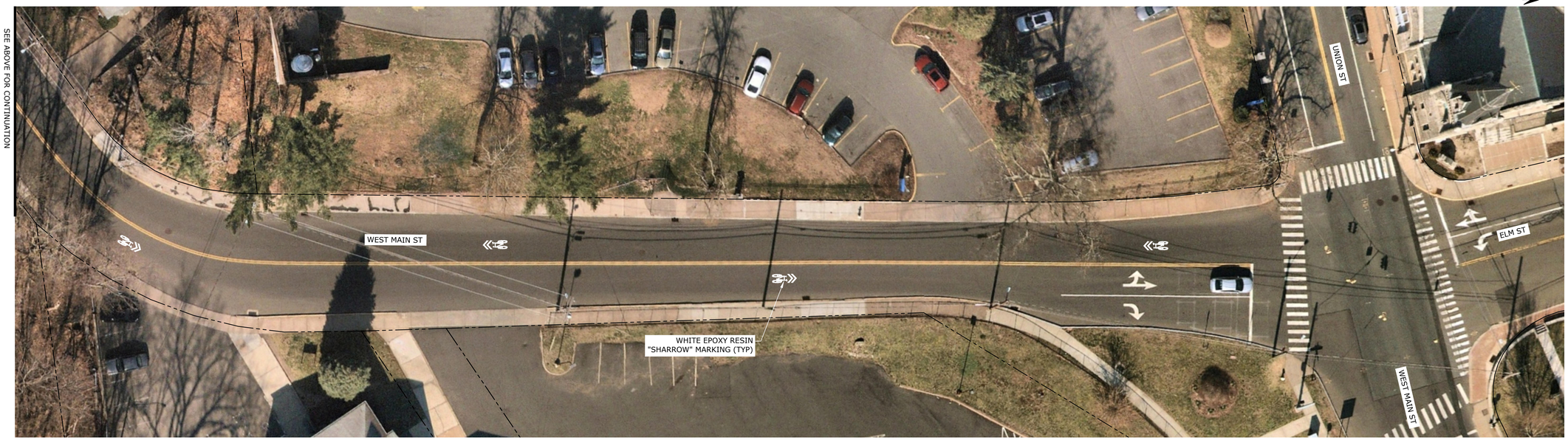

CONSTRUCTION PLAN LEGEND

- SAWCUT
- GRANITE CURB
- CONCRETE SIDEWALK
- DETECTABLE WARNING STRIP
- BITUMINOUS CONCRETE DRIVEWAY
- FULL DEPTH BITUMINOUS CONCRETE ROADWAY REPAIR

SIGN LEGEND

A	B	C	D	E	F	G	H	I
SPEED LIMIT 25	NO PARKING ANY TIME	NO PARKING FIRE LANE	1 HOUR PARKING		AHEAD			YIELD HERE TO
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WEST MAIN STREET CONSTRUCTION PLAN

SCALE: AS SHOWN

C-102

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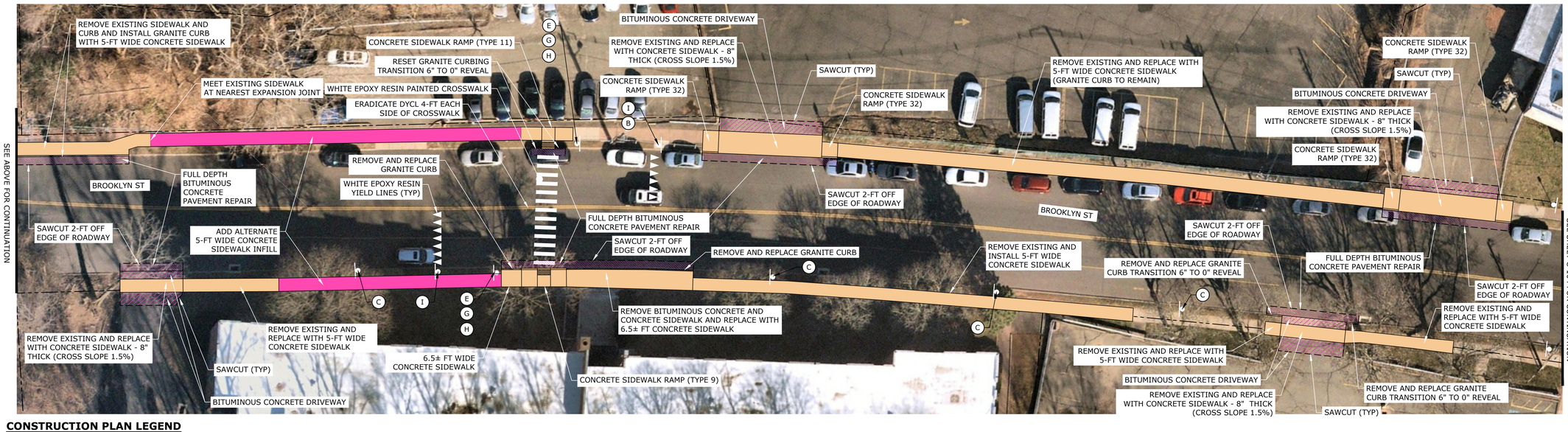

CONSTRUCTION PLAN LEGEND

- SAWCUT
- GRANITE CURB
- CONCRETE SIDEWALK
- CONCRETE SIDEWALK (ADD ALTERNATE)
- DETECTABLE WARNING STRIP
- BITUMINOUS CONCRETE DRIVEWAY
- FULL DEPTH BITUMINOUS CONCRETE ROADWAY REPAIR

SIGN LEGEND

A	B	C	D	E	F	G	H	I
SPEED LIMIT 25	NO PARKING ANY TIME	NO PARKING FIRE LANE	1 HOUR PARKING		AHEAD			YIELD HERE TO
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BROOKLYN ST CONSTRUCTION PLAN - 1

SCALE: AS SHOWN

C-103

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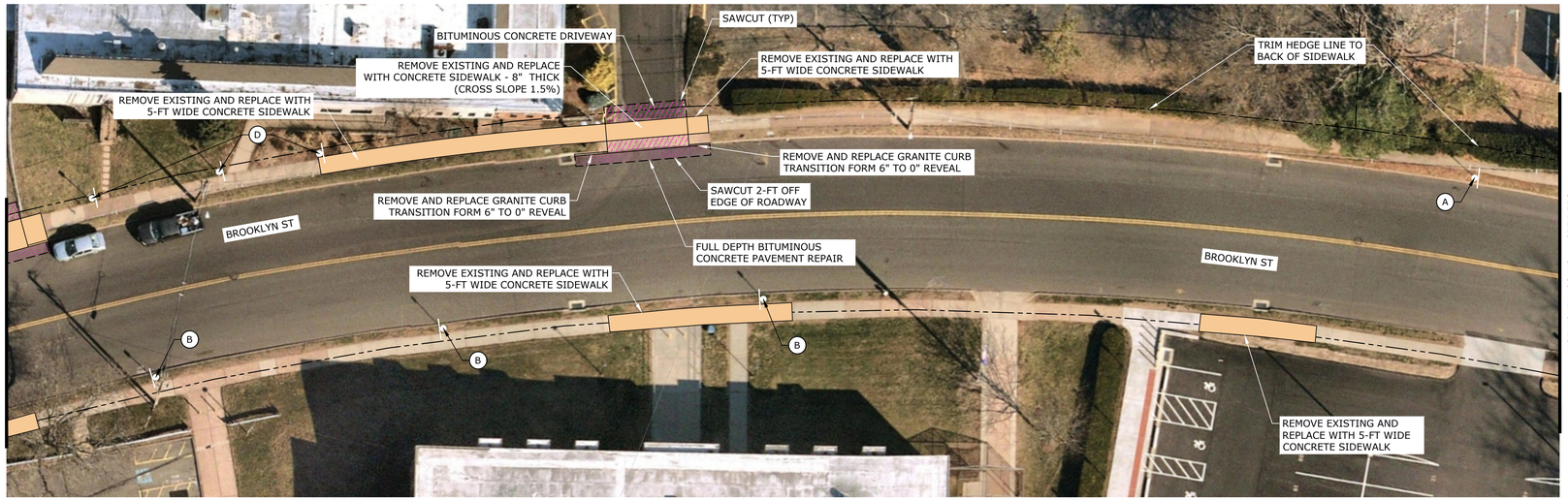

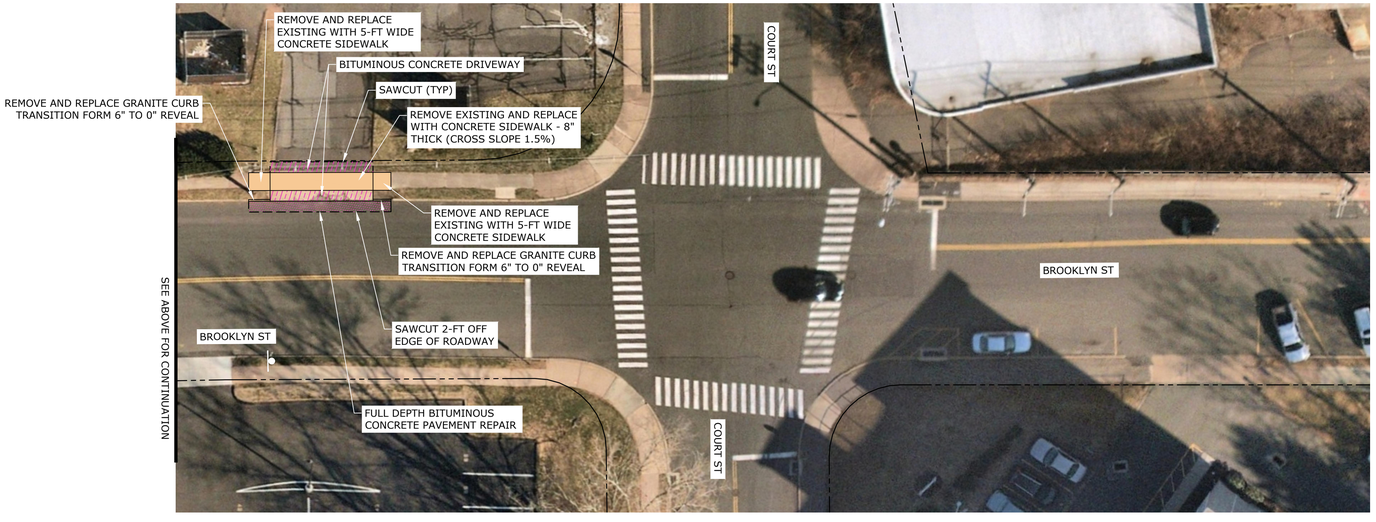

CONSTRUCTION PLAN LEGEND

- SAWCUT
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SIGN LEGEND

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BROOKLYN ST CONSTRUCTION PLAN - 2

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C-104

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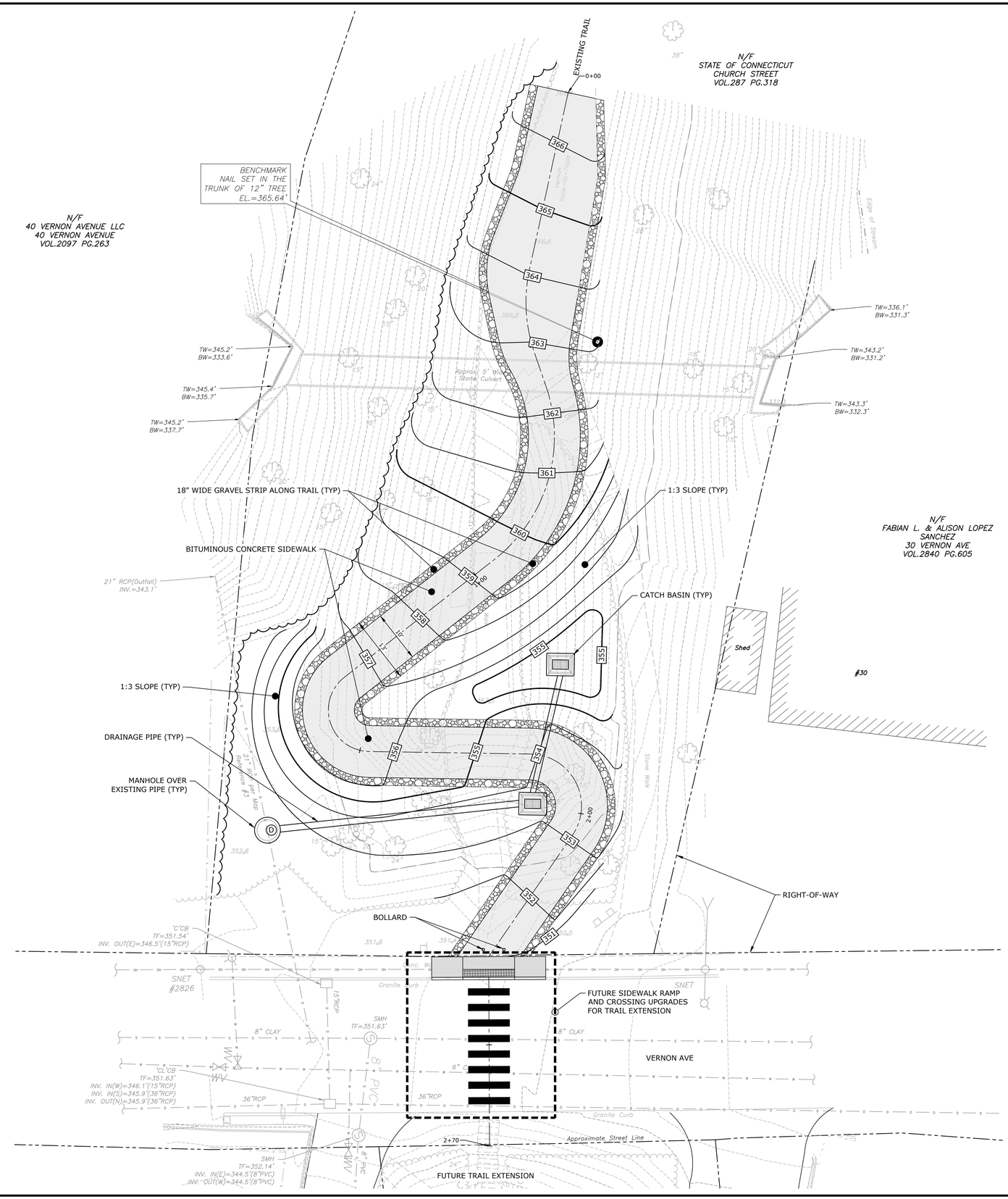

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Plotted On:Oct 23, 2023-1:47pm By: JCB1
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Tighe&Bond

PRELIMINARY DESIGN

THIS DOCUMENT IS INCOMPLETE AND IS RELEASED TEMPORARILY FOR PROGRESS REVIEW ONLY. IT IS NOT INTENDED FOR BIDDING OR CONSTRUCTION PURPOSES.

ROCKVILLE CENTER PEDESTRIAN IMPROVEMENTS

TOWN OF VERNON, CT

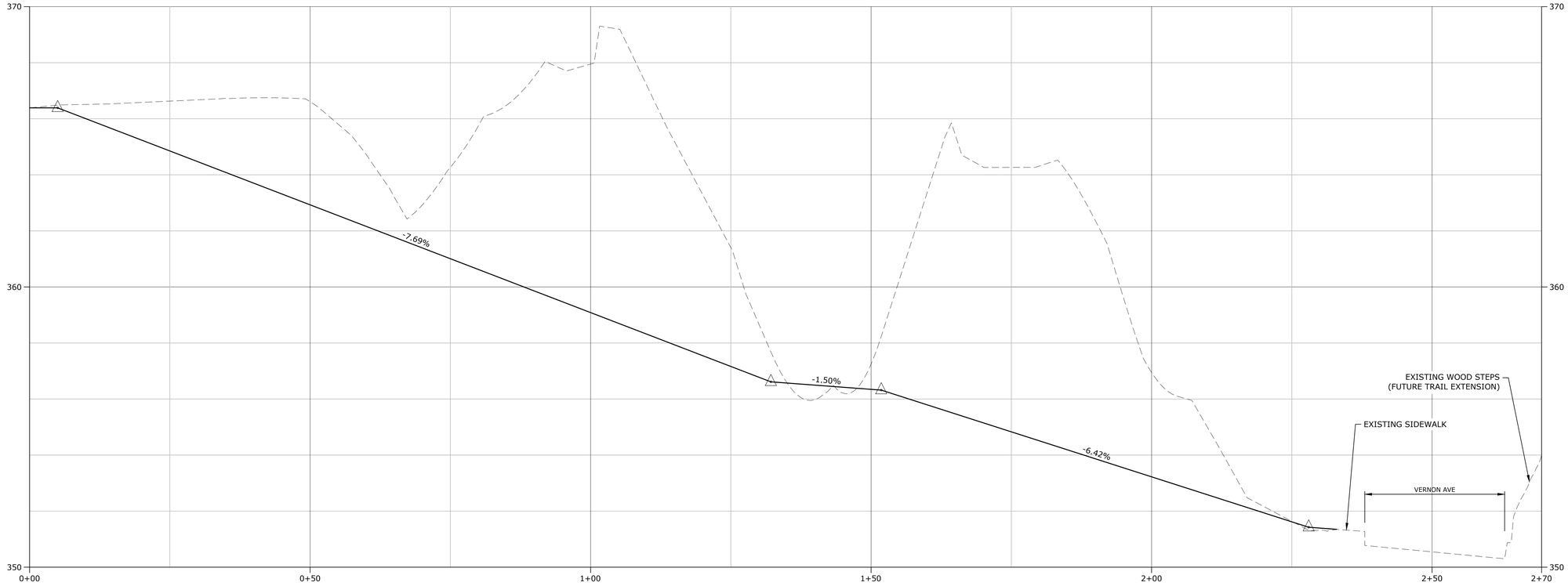
MARK	DATE	DESCRIPTION

PROJECT NO:	V0037-018
DATE:	10/23/2023
FILE:	V0037-018-C-300-CP-TRAIL-2.dwg
DRAWN BY:	JCB
DESIGNED/CHECKED BY:	JCB/DH
APPROVED BY:	COG

TRAILHEAD ACCESS PLAN

SCALE: AS SHOWN

C-201



Proposed Trail - STA: 0+00 TO 2+70

HORIZONTAL SCALE 1" = 10'
0 10' 20'
VERTICAL SCALE 1" = 2'
0 2' 4'

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ROCKVILLE CENTER PEDESTRIAN IMPROVEMENTS

TOWN OF VERNON, CT

MARK	DATE	DESCRIPTION

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DRAWN BY:	JCB
DESIGNED/CHECKED BY:	JCB/DH
APPROVED BY:	COG

TRAILHEAD ACCESS PROFILE

SCALE: AS SHOWN

C-202

Last Saved: 10/23/2023
Plotted On:Oct 23, 2023-1:47pm By: JCB1
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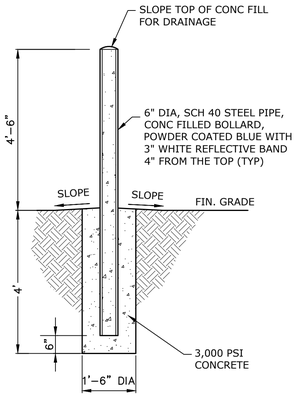
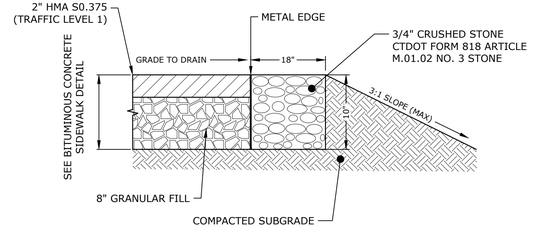


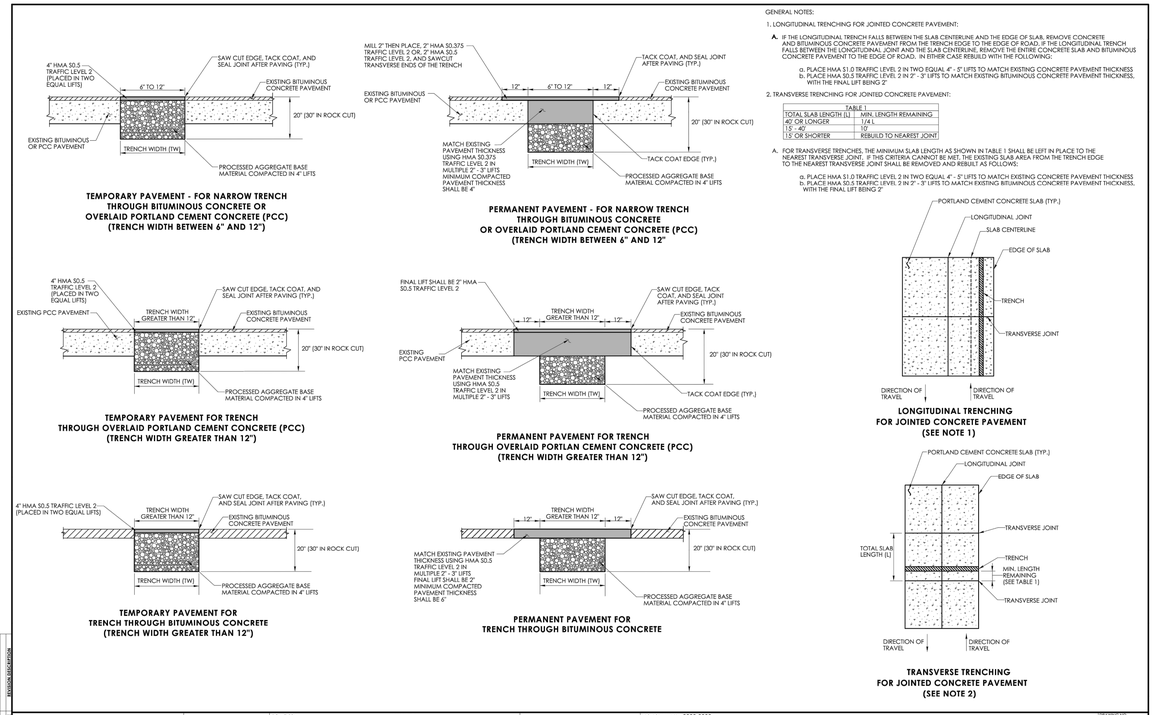
6" DIAMETER STEEL BOLLARD

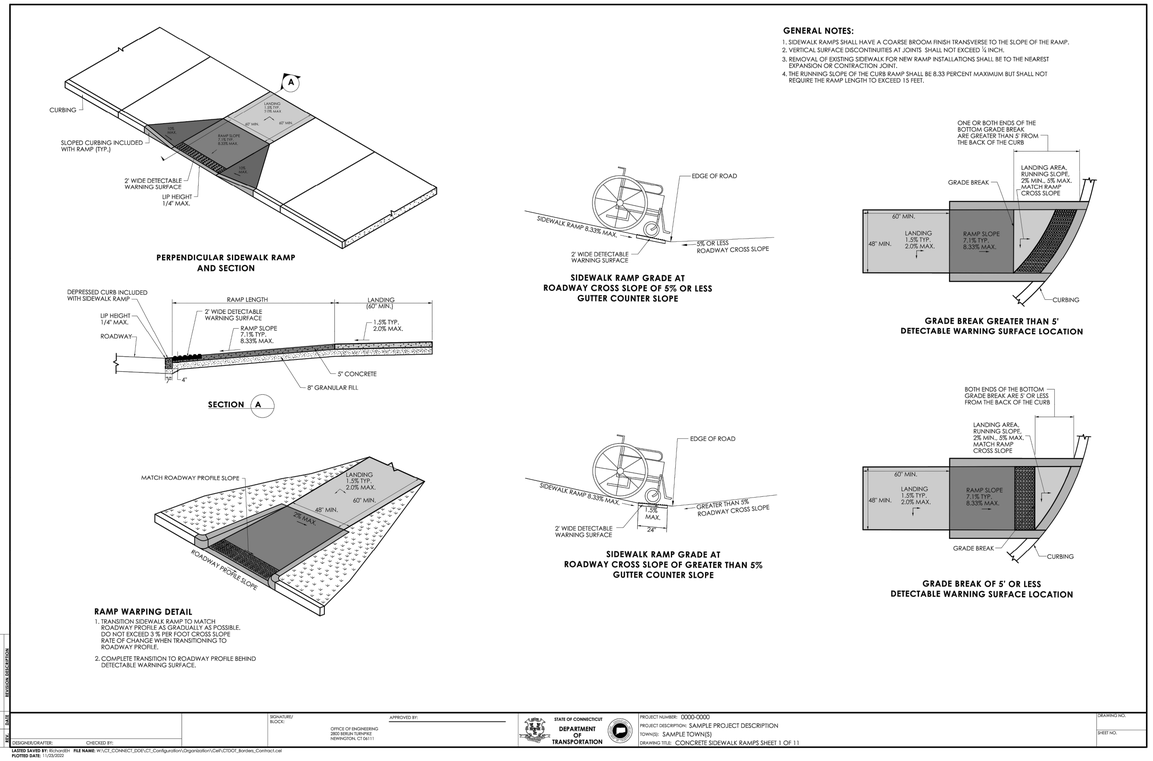
NOT TO SCALE



STONE STRIP ALONG PAVED TRAIL

NO SCALE





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ROCKVILLE CENTER PEDESTRIAN IMPROVEMENTS

TOWN OF VERNON, CT

MARK	DATE	DESCRIPTION

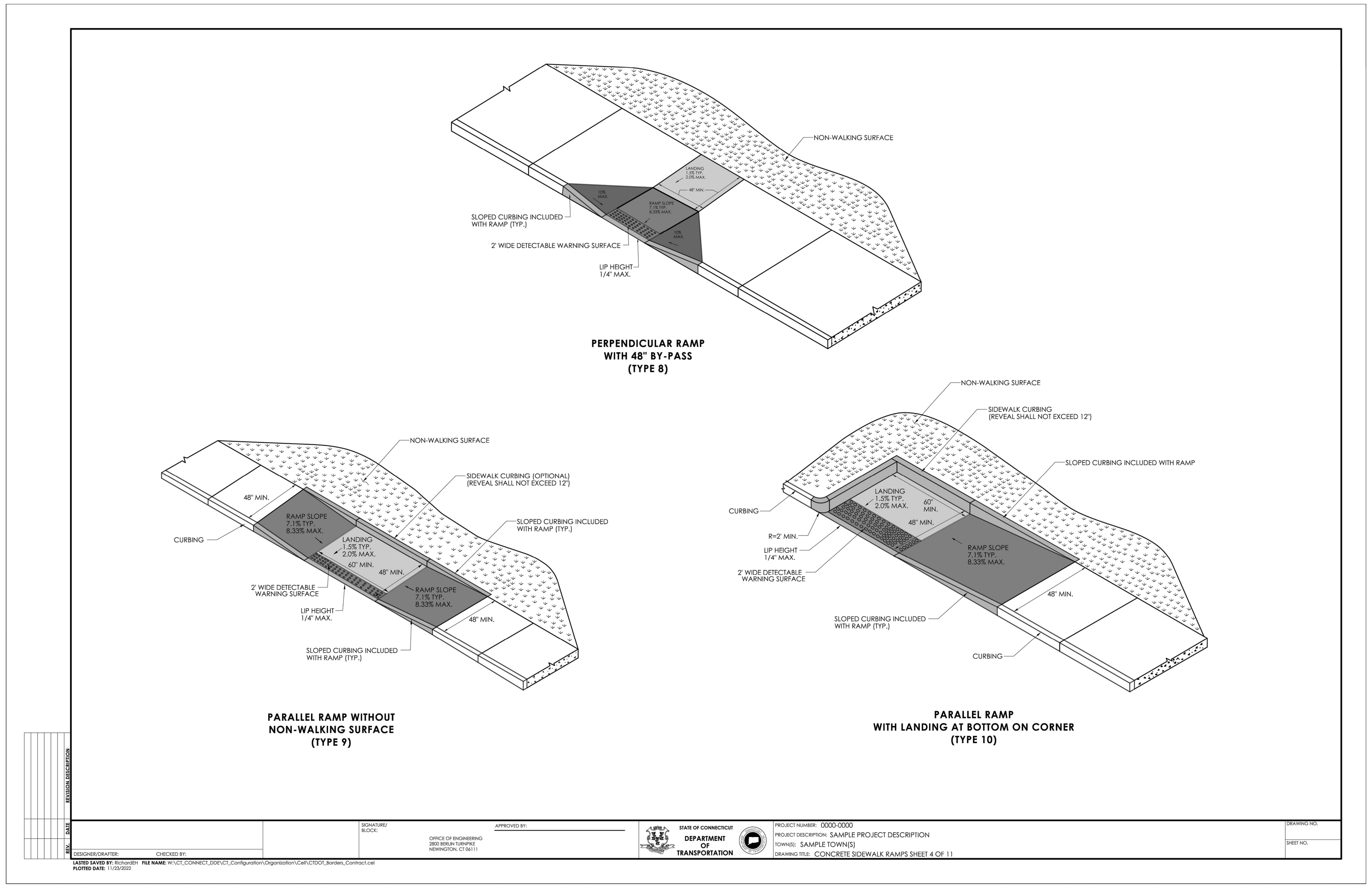
PROJECT NO:	V0037-018
DATE:	10/23/2023
FILE:	V0037-018-C-300-DETL.dwg
DRAWN BY:	JCB
DESIGNED/CHECKED BY:	JCB/DH
APPROVED BY:	COG

DETAILS - 1

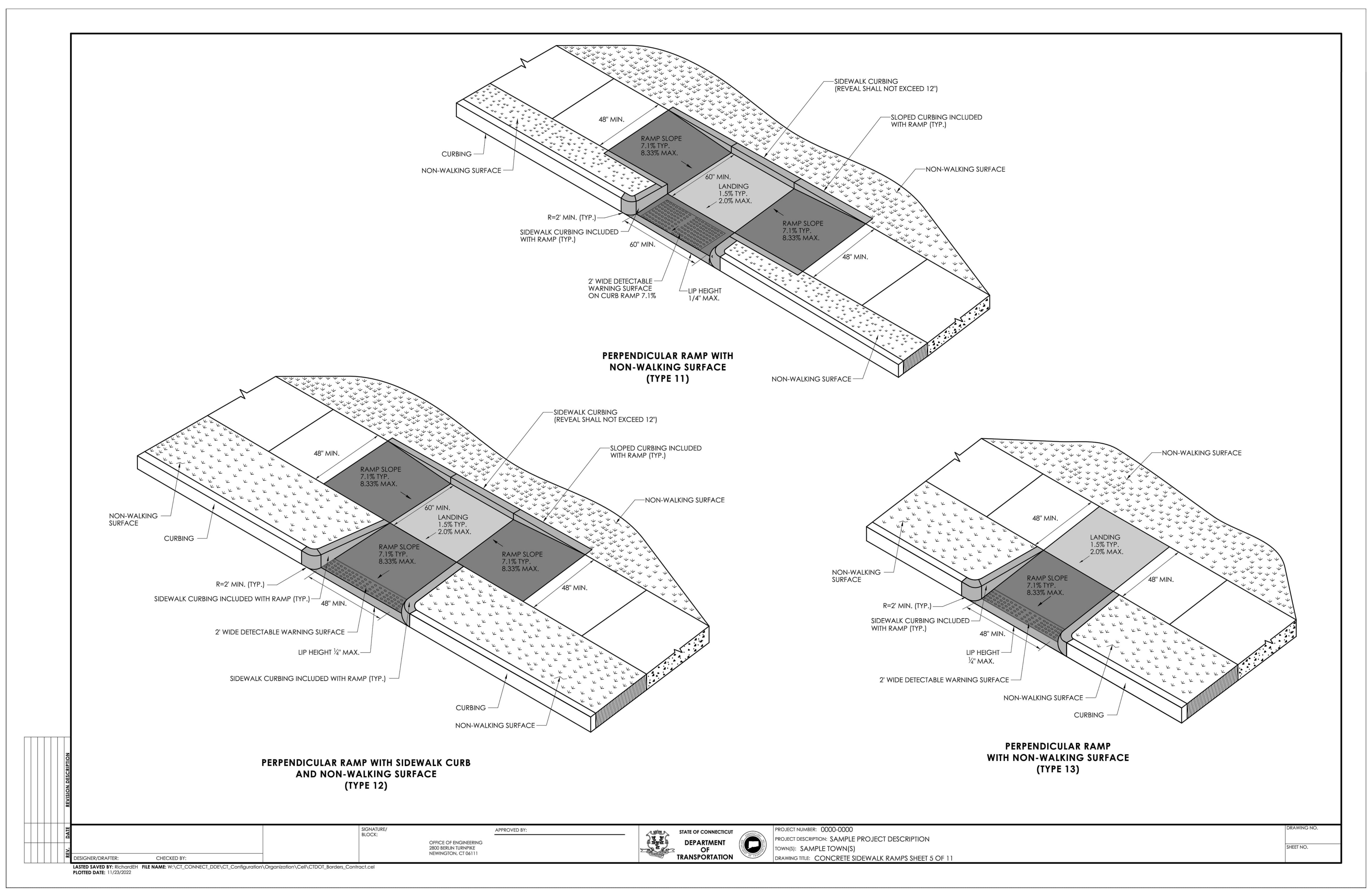
SCALE: NO SCALE

C-301

Last Saved: 10/23/2023
Plotted On:Oct 23, 2023-1:47pm By: JCB1
Tighe & Bond J:\VV0037 Vernon WWTP\018 - Rockville Center Complete Streets\Drawings\AutoCAD\Sheet\V0037-018-C-300-DETL.dwg



NON-WALKING SURFACE
SLOPED CURBING INCLUDED WITH RAMP (TYP.)
2' WIDE DETECTABLE WARNING SURFACE
LIP HEIGHT 1/4" MAX.
PERPENDICULAR RAMP WITH 48" BY-PASS (TYPE 8)
NON-WALKING SURFACE
SIDEWALK CURBING (OPTIONAL) (REVEAL SHALL NOT EXCEED 12")
SLOPED CURBING INCLUDED WITH RAMP (TYP.)
48" MIN.
RAMP SLOPE 7.1% TYP. 8.33% MAX.
LANDING 1.5% TYP. 2.0% MAX.
60" MIN.
CURBING
2' WIDE DETECTABLE WARNING SURFACE
LIP HEIGHT 1/4" MAX.
SLOPED CURBING INCLUDED WITH RAMP (TYP.)
PARALLEL RAMP WITHOUT NON-WALKING SURFACE (TYPE 9)
NON-WALKING SURFACE
SIDEWALK CURBING (REVEAL SHALL NOT EXCEED 12")
SLOPED CURBING INCLUDED WITH RAMP
R=2' MIN.
PARALLEL RAMP WITH LANDING AT BOTTOM ON CORNER (TYPE 10)
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER: 0000-0000
PROJECT DESCRIPTION: SAMPLE PROJECT DESCRIPTION
TOWN(S): SAMPLE TOWN(S)
DRAWING TITLE: CONCRETE SIDEWALK RAMPS SHEET 4 OF 11



SIDEWALK CURBING (REVEAL SHALL NOT EXCEED 12")
SLOPED CURBING INCLUDED WITH RAMP (TYP.)
NON-WALKING SURFACE
CURBING
48" MIN.
RAMP SLOPE 7.1% TYP. 8.33% MAX.
LANDING 1.5% TYP. 2.0% MAX.
60" MIN.
R=2' MIN. (TYP.)
SIDEWALK CURBING INCLUDED WITH RAMP (TYP.)
2' WIDE DETECTABLE WARNING SURFACE ON CURB RAMP 7.1%
LIP HEIGHT 1/4" MAX.
PERPENDICULAR RAMP WITH NON-WALKING SURFACE (TYPE 11)
2' WIDE DETECTABLE WARNING SURFACE
PERPENDICULAR RAMP WITH SIDEWALK CURB AND NON-WALKING SURFACE (TYPE 12)
PERPENDICULAR RAMP WITH NON-WALKING SURFACE (TYPE 13)
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER: 0000-0000
PROJECT DESCRIPTION: SAMPLE PROJECT DESCRIPTION
TOWN(S): SAMPLE TOWN(S)
DRAWING TITLE: CONCRETE SIDEWALK RAMPS SHEET 5 OF 11

Tighe&Bond

PRELIMINARY DESIGN

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ROCKVILLE CENTER PEDESTRIAN IMPROVEMENTS

TOWN OF VERNON, CT

MARK	DATE	DESCRIPTION

PROJECT NO:	V0037-018
DATE:	10/23/2023
FILE:	V0037-018-C-300-DETL.dwg
DRAWN BY:	JCB
DESIGNED/CHECKED BY:	JCB/DH
APPROVED BY:	COG

DETAILS - 2

SCALE: NO SCALE

C-302

Last Saved: 10/23/2023
Plotted On:Oct 23, 2023-1:47pm By: JCB1
Tighe & Bond:J:\V\V0037 Vernon WWTP\018 - Rockville Center Complete Streets\Drawings\AutoCAD\Sheet\V0037-018-C-300-DETL.dwg

S & W SERIES TYPICAL SIGN DETAILS

Table columns: AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS | ALUM. THK.

S - SERIES

S1-1 — LEGEND - BLACK; BACKGROUND - FLUORESCENT YELLOW GREEN

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
S1-1	6.75	36	41-2112	1	.080
S1-1	12.00	48	41-2113	2	.100

W1 - SERIES

W1-6 and W1-8 — LEGEND - BLACK; BACKGROUND - FLUORESCENT YELLOW (LEFT OR RIGHT)

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
W1-1L	6.25	30	41-4006	1	.080
W1-1L	9.00	36	41-4031	1	.080
W1-1R	6.25	30	41-4005	1	.080
W1-1R	9.00	36	41-4160	1	.080
W1-6	8.00	48X24	41-4223	2	.100
W1-6	12.50	60X30	41-4262	2	.100
W1-2	6.25	30	41-4029	1	.080
W1-2	9.00	36	41-4169	1	.080
W1-2	6.25	30	41-4168	1	.080
W1-2	9.00	36	41-4032	1	.080
W1-7	8.00	48X24	41-4207	2	.100
W1-7	12.50	60X30	41-4208	2	.100
W1-8	3.00	18X24	41-3951	1	.080
W1-8	7.50	30X36	41-4211	1	.080
W1-8	12.00	36X48	41-4260	2	.080

W2 - SERIES

W2-2 (LEFT OR RIGHT)

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
W2-1	6.25	30	41-4226	1	.080
W2-1	9.00	36	41-4236	1	.080
W2-2	6.25	30	41-4225	1	.080
W2-2	9.00	36	41-4235	1	.080

W3 - SERIES

W3-1 — OCTAGON - RED
W3-2 — TRIANGLE - RED & WHITE
W3-3 — SYMBOL & LEGEND - BLACK; BACKGROUND - YELLOW; TOP CIRCLE - RED; BOTTOM CIRCLE - GREEN
WHEN FLASHING STOP AHEAD — W/ FLASHERS

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
W3-1	6.25	30	41-0501	1	.080
W3-1	16.00	48	41-0503	2	.100
W3-2	6.25	30	41-0504	1	.080
W3-2	16.00	48	41-0506	2	.100
W3-3	6.25	30	41-0835	1	.080
W3-3	16.00	48	41-0848	2	.100
WHEN FLASHING STOP AHEAD	25.00	60	41-0534	2	.125

W4 - SERIES

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
W4-1	9.00	36	41-4448	1	.080
W4-1	16.00	48	41-4452	2	.100
W4-1	9.00	36	41-4449	1	.080
W4-1	16.00	48	41-4459	2	.100
W4-2	9.00	36	41-4442	1	.080
W4-2	16.00	48	41-4446	2	.100
W4-2	9.00	36	41-4441	1	.080
W4-2	16.00	48	41-4447	2	.100
W4-3	9.00	36	41-4468	1	.080
W4-3	16.00	48	41-4435	2	.100
W4-3	9.00	36	41-4470	1	.080
W4-3	16.00	48	41-4434	2	.100

W5 - SERIES

W5-1 — ROAD NARROWS

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
W5-1	9.00	36	41-4402	1	.080
W5-1	16.00	48	41-4404	2	.100

W6 - SERIES

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
W6-1 / W6-2	9.00	36	41-4335	1	.080
W6-1 / W6-2	16.00	48	41-4330	2	.100
W6-3	9.00	36	41-4329	1	.080
W6-3	16.00	48	41-4331	2	.100

W7 - SERIES

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
W7-1	6.25	30	41-4506	1	.080
W7-1	9.00	36	41-4530	1	.080
W7-1	16.00	48	41-4508	2	.100

W8 - SERIES

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
W8-5	6.25	30	41-4519	1	.080
W8-5	9.00	36	41-4520	1	.080
W8-5	16.00	48	41-4521	2	.100

W9 - SERIES

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
W9-1 LEFT LANE ENDS	9.00	36	41-4443	1	.080
W9-1 LEFT LANE ENDS	16.00	48	41-4444	2	.100
W9-1 RIGHT LANE ENDS	9.00	36	41-4440	1	.080
W9-1 RIGHT LANE ENDS	16.00	48	41-4445	2	.100
W9-2 LANE ENDS MERGE LEFT	9.00	36	41-4454	1	.080
W9-2 LANE ENDS MERGE LEFT	16.00	48	41-4456	2	.100
W9-2 LANE ENDS MERGE RIGHT	9.00	36	41-4453	1	.080
W9-2 LANE ENDS MERGE RIGHT	16.00	48	41-4455	2	.100

W11 - SERIES

W11-2 — LEGEND - BLACK; BACKGROUND - FLUORESCENT YELLOW GREEN

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
W11-2	6.25	30	41-4829	1	.080
W11-2	9.00	36	41-4830	1	.080
W11-8	6.25	30	41-4680	1	.080
W11-8	9.00	36	41-4681	1	.080

W12 - SERIES

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
W12-1	6.25	30	41-4213	1	.080
W12-1	9.00	36	41-4215	1	.080
W12-2 (00'-0")	9.00	36	41-4706	1	.080
W12-2 (00'-0")	16.00	48	41-4708	2	.100
LEFT LANE (SUBPLATE)	5.00	30X24	41-4721		.080
RIGHT LANE (SUBPLATE)	5.00	30X24	41-4722		.080

W13 - SERIES

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
W13-1P 00 M.P.H. (SUBPLATE)	2.25	18X18	41-5566		.080
W13-1P 00 M.P.H. (SUBPLATE)	4.00	24X24	41-5567		.080
W13-1P 00 M.P.H. (SUBPLATE)	6.25	30X30	41-5574		.080
W13-2 EXIT 00 M.P.H.	12.00	36X48	41-5596	2	.100
W13-3 RAMP 00 M.P.H.	12.00	36X48	41-5581	2	.100

W16 - SERIES

W16-2aP (000 FT) — (SUBPLATE) USE AT ADVANCE SIGN LOCATION; LEGEND - BLACK; BACKGROUND - FLUORESCENT YELLOW GREEN
W16-7PL — (SUBPLATE) USE AT CROSSWALK; LEGEND - BLACK; BACKGROUND - FLUORESCENT YELLOW GREEN
W16-7PR — (SUBPLATE) USE AT CROSSWALK; LEGEND - BLACK; BACKGROUND - FLUORESCENT YELLOW GREEN
W16-9P (AHEAD) — (SUBPLATE) USE AT ADVANCE SIGN LOCATION; LEGEND - BLACK; BACKGROUND - FLUORESCENT YELLOW GREEN
W16-2aP — 41-6130 000 FT; 41-6134 0000 FT — (SUBPLATE) USE AT ADVANCE SIGN LOCATION

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
W16-2aP	2.00	24X12	41-6140		.080
W16-7PL	2.00	24X12	41-2617		.080
W16-7PR	2.00	24X12	41-2619		.080
W16-9P	2.00	24X12	41-6126		.080
W16-9P	3.75	30X18	41-6137		.080
W16-2aP	2.00	24X12	41-6130		.080
W16-2aP	3.75	30X18	41-6134		.080

RETROREFLECTIVE STRIP

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
LEGEND - N/A; BACKGROUND - FLUORESCENT YELLOW GREEN	2.00	4X72	41-5010	1	.080
LEGEND - N/A; BACKGROUND - FLUORESCENT YELLOW	1.50	4X48	41-5001	1	.080
LEGEND - N/A; BACKGROUND - FLUORESCENT YELLOW	2.00	4X72	41-5006	1	.080

NOTES:

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

COLORS:

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

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
2	10-2021	REVISED SHEETING TYPE	TR-GS_02
1	6-2018	NEW SHEET ISSUED	TR-GS_02

Plotted Date: 10/14/2021

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.

DESIGNER/DRAFTER: A. MERMELSTEIN
CHECKED BY: B. SCHILLING
NOT TO SCALE

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
Filename: ...\CTDOT_TRAFFIC_GS.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE: -
TOWN: -
DRAWING TITLE: SIGN FACE SHEET ALUMINUM (Y) S&W SERIES TYPICAL SIGN DETAILS
PROJECT NO. -
DRAWING NO. TR-GS_02
SHEET NO.

R-SERIES TYPICAL SIGN DETAILS

R1 - SERIES

R1-1 * STOP — LEGEND - WHITE; BACKGROUND - RED
R1-2 * YIELD — LEGEND - RED; BACKGROUND - WHITE
R1-3P * ALL-WAY — LEGEND - WHITE; BACKGROUND - RED

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
R1-1	1.85	18	31-0532	1	.080
R1-1	5.19	30	31-0552	1	.080
R1-1	7.98	36	31-0553	1	.080
R1-1	13.3	48	31-0557	2	.100
R1-2	0.97	18	31-0520	1	.080
R1-2	3.90	36	31-0523	1	.080
R1-2	6.77	48	31-0522	2	.100
R1-2	10.83	60	31-0528	2	.100
R1-3P	0.75	18X6	31-0508		.080

R2 - SERIES

R2-1 SPEED LIMIT 00
R2-4a SPEED LIMIT 00 MINIMUM 00

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
R2-1	5.00	24X30	31-5505	1	.080
R2-1	7.50	30X36	31-5504	1	.080
R2-1	12.00	36X48	31-5506	2	.100
R2-1	20.00	48X60	31-5507	2	.100
R2-4a	32	48X96	31-5510	2	.125

R3 - SERIES

R3-1, R3-2, R3-4 — LEGEND - BLACK; BACKGROUND - WHITE; CIRCLE & DIAGONAL - RED

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
R3-1	4.00	24X24	31-1604	1	.080
R3-1	9.00	36X36	31-1627	2	.080
R3-5 ONLY / ONLY (31-0183, 31-0184)	7.50	30X36		1	.080
R3-6	7.50	30X24	31-0175	1	.080
R3-8 ONLY (31-0282, 31-0283)	7.50	36X30		2	.080
R3-8b ONLY ONLY	10.00	48X30	31-0302	2	.100
R3-2	4.00	24X24	31-1603	1	.080
R3-2	9.00	36X36	31-1629	2	.080
R3-6 (31-0157, 31-0158)	7.50	30X36		1	.080
R3-8 ONLY ONLY	7.50	36X30	31-0290	1	.080
R3-8 ONLY (31-0295, 31-0219)	7.50	36X30		2	.080
R3-8b ONLY (31-0307, 31-0372)	10.00	48X30		2	.100
R3-3 NO TURNS	4.00	24X24	31-1648	1	.080
R3-3 NO TURNS	9.00	36X36	31-1647	2	.080
R3-7 LEFT LANE MUST TURN LEFT	6.25	30X30	31-0117	1	.080
R3-7 LEFT LANE MUST TURN LEFT	9.00	36X36	31-0120	2	.080
R3-8 ONLY (31-0222, 31-0223)	6.25	30X30		1	.080
R3-8 ONLY	8.75	42X30	31-0279	2	.100
R3-8b ONLY	8.75	42X30	31-0334	2	.100
R3-4	4.00	24X24	31-1622	1	.080
R3-4	9.00	36X36	31-1632	2	.080
R3-7 RIGHT LANE MUST TURN RIGHT	6.25	30X30	31-0118	1	.080
R3-7 RIGHT LANE MUST TURN RIGHT	9.00	36X36	31-0123	2	.080
R3-8 ONLY (31-0262, 31-0261)	6.25	30X30		1	.080
R3-8b ONLY (31-0370, 31-0371)	8.75	42X30		2	.100

R4 - SERIES

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
R4-1 DO NOT PASS	5.00	24X30	31-1502	1	.080
R4-16 KEEP RIGHT EXCEPT TO PASS	20.00	48X60	31-1574	2	.100
R4-3 SLOWER TRAFFIC KEEP RIGHT	5.00	24X30	31-1562	1	.080
R4-3 SLOWER TRAFFIC KEEP RIGHT	20.00	48X60	31-1564	2	.100
R4-7	5.00	24X30	31-1526	1	.080
R4-7	12.00	36X48	31-1536	2	.100
R4-7	20.00	48X60	31-1546	2	.100

R5 - SERIES

R5-1 * DO NOT ENTER — LEGEND - WHITE; BACKGROUND - WHITE; CIRCLE - RED
R5-10a(CT) NO PEDESTRIANS BICYCLES MOTOR BIKES MOTOR SCOOTERS
R5-1a * WRONG WAY — LEGEND - WHITE; BACKGROUND - RED
R5-11 * AUTHORIZED VEHICLES ONLY
R5-10a(CT) PROHIBITED VEH OVER 8FT HIGH TRAILERS COMMERCIAL VEH — LEGEND - BLACK; TOP SECTION BACKGROUND - YELLOW; BOTTON SECTION BACKGROUND - WHITE
R5-10c NO PEDESTRIANS

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
R5-1	6.25	30X30	31-1119	1	.080
R5-1	9.00	36X36	31-1120	2	.080
R5-1	16.00	48X48	31-1121	2	.100
R5-10a(CT)	9.00	36X36	31-1775	2	.100
R5-1a	6.00	36X24	31-1122	2	.080
R5-1a	8.75	42X30	31-1123	2	.100
R5-11	5.00	30X24	31-1790	1	.080
R5-11	20.00	48X36	31-1792	2	.100
R5-10a(CT) PROHIBITED	32.50	60X78	31-1719	2	.125
R5-10c	2.00	24X12	31-1774	1	.080

R6 - SERIES

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
R6-1 * ONE WAY (left)	3.00	36X12	31-1188	1	.080
R6-1 * ONE WAY (left)	6.75	54X18	31-1189	2	.100
R6-1 * ONE WAY (right)	3.00	36X12	31-1177	1	.080
R6-1 * ONE WAY (right)	6.75	54X18	31-1178	2	.100

R7 - SERIES

R7-1 NO PARKING ANY TIME — (R), (D), (L) arrows; LEGEND - RED; BACKGROUND - WHITE
R7-2a NO PARKING 0:00 AM TO 0:00 PM — VARIABLE TIMES; (R), (D), (L) arrows; LEGEND - RED; BACKGROUND - WHITE

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
R7-1	1.50	12X18	31-0630	1	.080
R7-2a	1.50	12X18	31-0603	1	.080

R8 - SERIES

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
R8-7 EMERGENCY STOPPING ONLY	12.00	48X36	31-0670	2	.100

R9 - SERIES

R9-3 — LEGEND - BLACK; BACKGROUND - WHITE; CIRCLE & DIAGONAL - RED

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
R9-3	2.25	18X18	31-1705	1	.080
R9-3	4.00	24x24	31-1769	1	.080
R9-3	6.25	30x30	31-1770	1	.080
R9-3a NO PEDESTRIAN CROSSING	1.50	12X18	31-1702	1	.080

R10 - SERIES

R10-15 * (31-1626, 31-1625) — LEGEND AND SYMBOLS - BLACK; YIELD SYMBOL - RED; BACKGROUND: TOP - FLUORESCENT YELLOW-GREEN; BOTTOM - WHITE

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
R10-6 STOP HERE ON RED (31-0801, 31-0802)	6.00	24X36		1	.080
R10-11b NO TURN ON RED	9.00	36X36	31-0816	2	.080
R10-11c(CT) RIGHT TURN ON RED FROM RIGHT LANE ONLY	7.50	30X36	31-0847	1	.080
R10-7 DO NOT BLOCK INTERSECTION	5.00	24X30	31-0806	1	.080
R10-10L LEFT TURN SIGNAL	7.50	30X36	31-0852	1	.080
R10-15	6.25	30X30		1	.080
R10-11a NO TURN ON RED	7.50	30X36	31-0830	1	.080
R10-11a NO TURN ON RED	12.00	36X48	31-0819	2	.100

R11 - SERIES

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
R11-1 KEEP OFF MEDIAN	5.00	24X30	31-1915	1	.080
R11-1 KEEP OFF MEDIAN	20.00	48X60	31-1918	2	.100

RETROREFLECTIVE STRIP

LEGEND - N/A; BACKGROUND - RED

SIGN	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
STRIP	1.00	4X48	31-5003	1	.080
STRIP	2.00	4X72	31-5004	1	.080

NOTES:

1. THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R- SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z".
2. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
3. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
4. POSTS SHALL BE 4 LBS./FT.
5. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
6. FOR OVERHEAD MOUNTED SIGNS, SEE STANDARD SHEET TR-1114_01 - "BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL."

COLORS:

BACKGROUND - WHITE - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING WITH THE EXCEPTION OF OVERHEAD MOUNTED SIGNS AND SIGNS DESIGNATED WITH AN * WHICH SHALL BE TYPE XI RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
4	10-2021	REVISED SHEETING TYPE	TR-GS_01
3	12-2018	REVISED RETROREFLECTIVE STRIPS	TR-GS_01
2	10-2018	REVISED R5-11 SIGNS PER MUTCD	TR-GS_01
1	6-2018	NEW SHEET ISSUED	TR-GS_01

Plotted Date: 10/14/2021

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.

DESIGNER/DRAFTER: A. MERMELSTEIN
CHECKED BY: B. SCHILLING
NOT TO SCALE

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
Filename: ...\CTDOT_TRAFFIC_GS.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE: -
TOWN: -
DRAWING TITLE: SIGN FACE SHEET ALUMINUM (X) R-SERIES TYPICAL SIGN DETAILS
PROJECT NO. -
DRAWING NO. TR-GS_01
SHEET NO.

Tighe&Bond

PRELIMINARY DESIGN

THIS DOCUMENT IS INCOMPLETE AND IS RELEASED TEMPORARILY FOR PROGRESS REVIEW ONLY. IT IS NOT INTENDED FOR BIDDING OR CONSTRUCTION PURPOSES.

ROCKVILLE CENTER PEDESTRIAN IMPROVEMENTS

TOWN OF VERNON, CT

MARK	DATE	DESCRIPTION

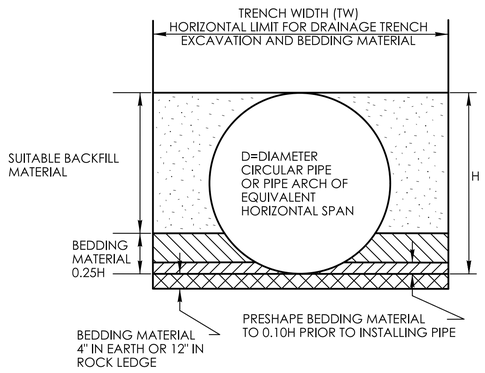
PROJECT NO: V0037-018
DATE: 10/23/2023
FILE: V0037-018-C-300-DETL.dwg
DRAWN BY: JCB
DESIGNED/CHECKED BY: JCB/DH
APPROVED BY: COG

DETAILS - 3

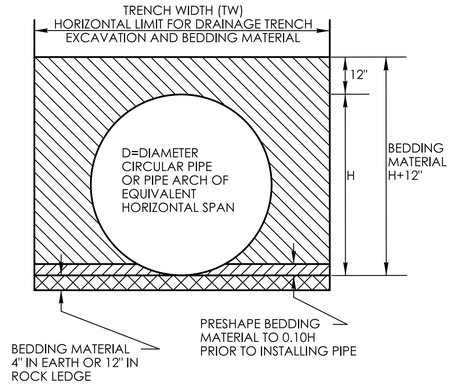
SCALE: NO SCALE

C-303

Last Saved: 10/23/2023
Plotted On:Oct 23, 2023-1:47pm By: JCB1
Tighe & Bond:J:\V\V0037 Vernon WWTP\018 - Rockville Center Complete Streets\Drawings\AutoCAD\Sheet\V0037-018-C-300-DETL.dwg



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

NOT TO SCALE

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

SUBMITTED BY:
Digitally signed by Leo Fontaine, P.E.
Date: 2022.09.27 14:24:13-04'00'

APPROVED BY:
Digitally signed by Calabrese, Michael
Date: 2022.11.09 13:47:30-05'00'

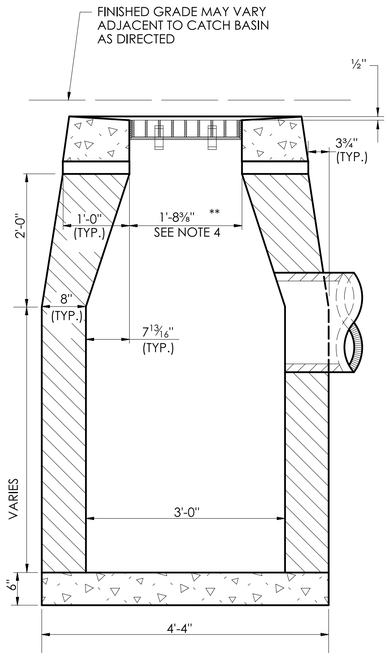
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CTDOT STANDARD SHEET

STANDARD SHEET TITLE:
DRAINAGE TRENCH EXCAVATION

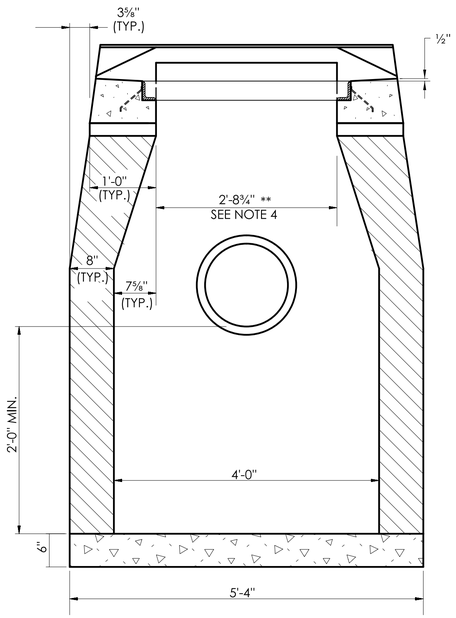
STANDARD SHEET NO.:
HW-286_01

PLOTTED DATE: 9/21/2022



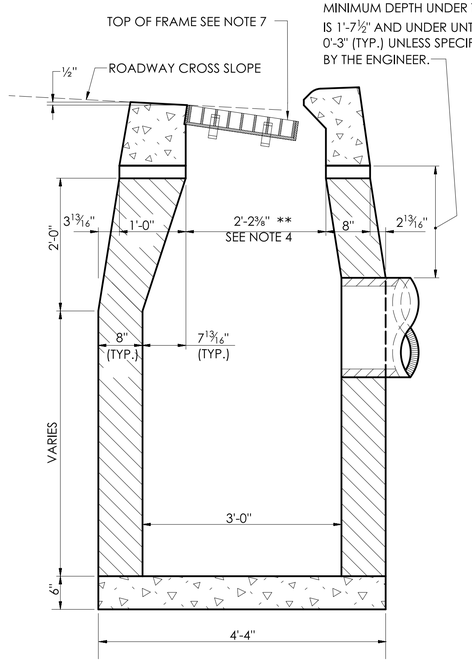
SECTION B

TYPE "C-L" CATCH BASIN



SECTION A

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

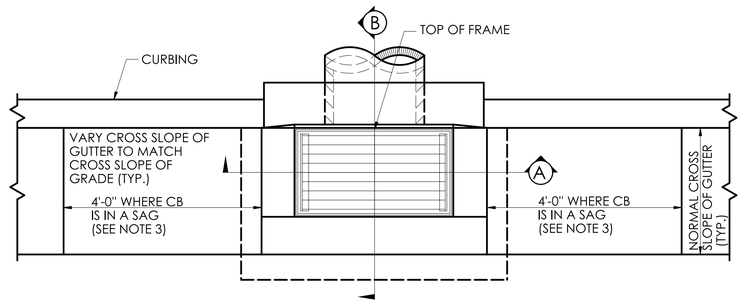


SECTION B

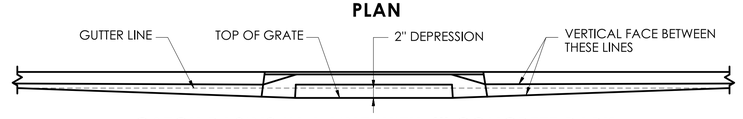
TYPE "C" CATCH BASIN

GENERAL NOTES:

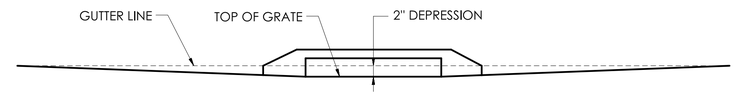
1. FOR CATCH BASIN TOPS, SEE SHEET NO. HW-586_07.
2. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.
3. USE 6'-0" ON UPGRADE SIDE (SEE PLAN VIEW) OF CONTINUOUS GRADE AND 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED BY THE ENGINEER.
4. 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 **.
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 PLANS.
7. TOP OF FRAME ELEVATION SHALL BE MEASURED IN THE CENTER OF GRATE AT GUTTER LINE.



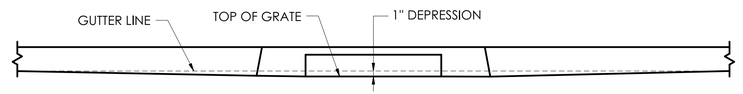
PLAN



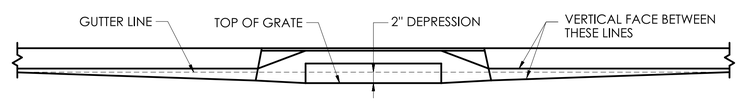
CATCH BASINS IN A LINE WITH 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING



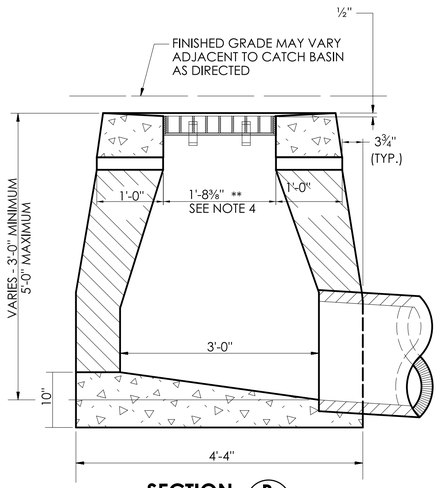
CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED



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

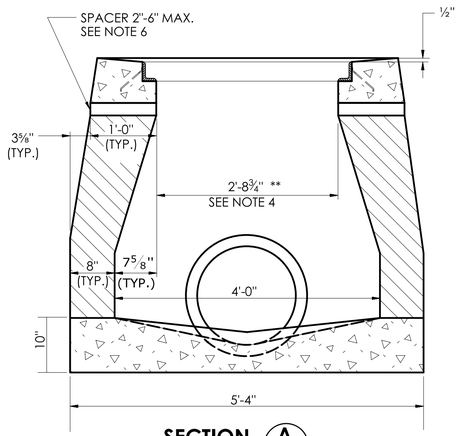


CATCH BASINS IN A LINE WITH 6" BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)



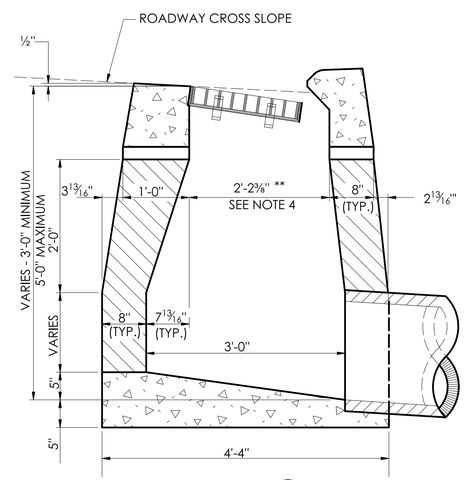
SECTION B

TYPE "C-L" DROP INLET



SECTION A

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



SECTION B

TYPE "C" DROP INLET

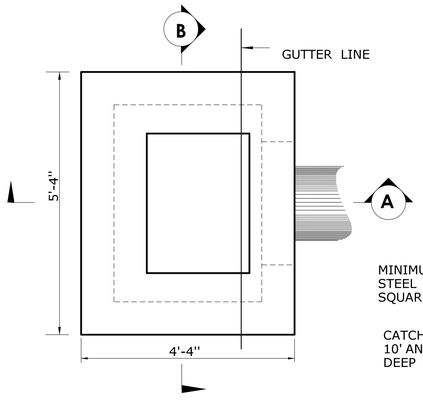
	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 14:31:04-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.09 13:51:15-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CATCH BASIN AND DROP INLET TYPES "C" AND "C-L" STRUCTURES

STANDARD SHEET NO.: HW- 586_01

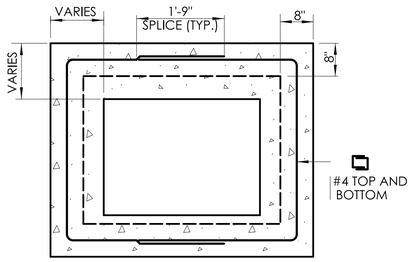
PLOTTED DATE: 9/21/2022

GENERAL NOTES:

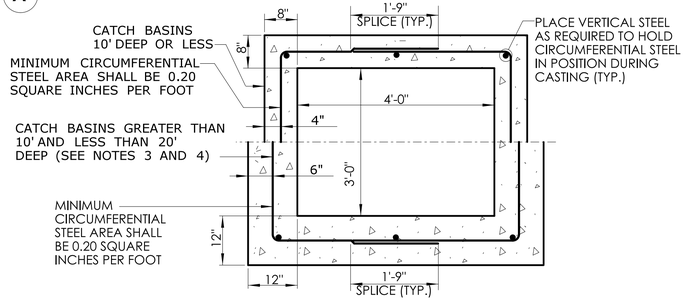
1. WELDED WIRE FABRIC WITH AN AREA EQUAL TO OR GREATER THAN THE REINFORCING SHOWN MAY BE SUBSTITUTED AS APPROVED BY THE ENGINEER.
2. ALL REINFORCEMENT SHALL HAVE A MINIMUM CLEAR COVER OF 2 INCHES, EXCEPT FOR BENEATH BOTTOM REINFORCEMENT IN TOP SLABS, WHERE THE MINIMUM MAY BE 1½ INCHES.
3. WALL THICKNESS OF ALL CATCH BASINS OVER 10 FEET DEEP SHALL BE INCREASED TO 12 INCHES. INSIDE DIMENSIONS SHALL REMAIN THE SAME. THE 12 INCH THICKNESS SHALL START AFTER THE FIRST 10 FEET.
4. BASES AND RISERS AT A DEPTH OF 20 FEET AND GREATER SHALL BE DESIGNED BY THE CONTRACTOR AND WORKING DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
5. RISERS MAY BE PREFABRICATED WITH PIPE OPENINGS IN ALL FOUR WALLS. ADEQUATE REINFORCING AROUND PIPE OPENINGS SHALL BE PROVIDED. RISERS USED WHERE A PIPE OPENING IS TO REMAIN IN PLACE MUST BE FORMED UP WITH BRICK AS DIRECTED BY THE ENGINEER.
6. RISERS SHALL NEVER HAVE CORNER PIPE ENTRIES. ROUND STRUCTURES SHALL BE USED WHEN PIPES CANNOT ALIGN WITH A RECTANGULAR STRUCTURE KNOCKOUT.
7. SHRINKAGE AND TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN THE TOPS OF SLABS. THE TOTAL AREA OF REINFORCEMENT PROVIDED SHALL BE AT LEAST 0.125 SQUARE INCHES PER FOOT IN EACH DIRECTION. THE MAXIMUM SPACING OF THIS REINFORCEMENT SHALL NOT EXCEED 18 INCHES.
8. THE DETAILS SHOWN IN THE PLAN VIEW FOR PRECAST CONCRETE ROUND STRUCTURES SHALL ALSO BE USED FOR CONVERTING MANHOLES TO CATCH BASINS.
9. FOR CATCH BASIN TOPS, SEE SHEET NO. HW-586_07 FOR RECTANGULAR OPENING OR SHEET NOS. HW-586_10a, HW-586_ 10b OR HW-586_ 10c FOR CIRCULAR OPENING.



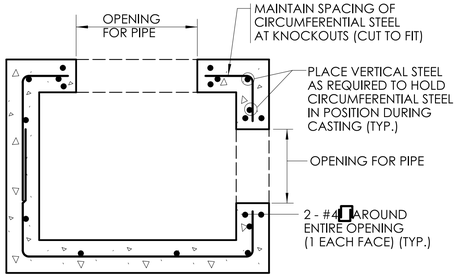
PLAN



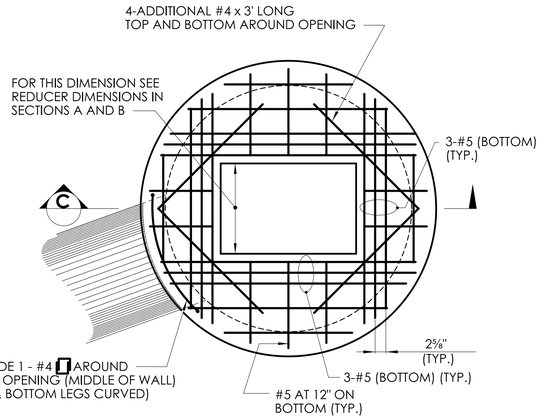
REDUCER SECTION (TYP.)



RISER SECTION (TYP.)



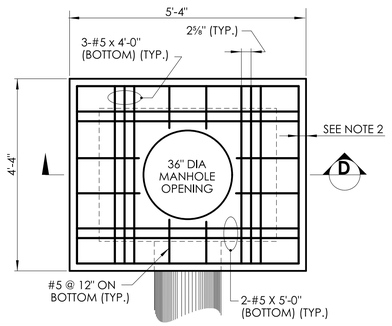
TYPICAL SECTION THROUGH RISER WITH OPENING



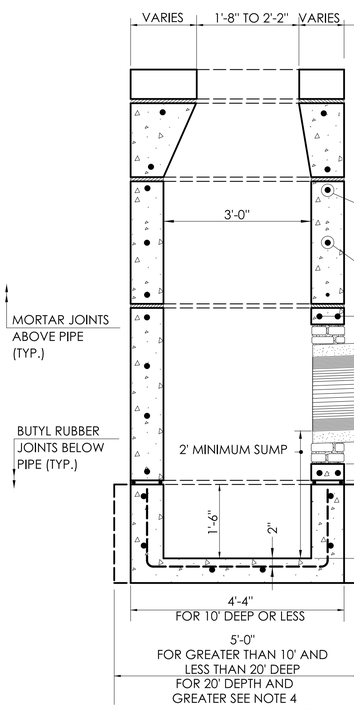
PLAN
(SEE NOTE 9)

MORTAR JOINT DETAIL

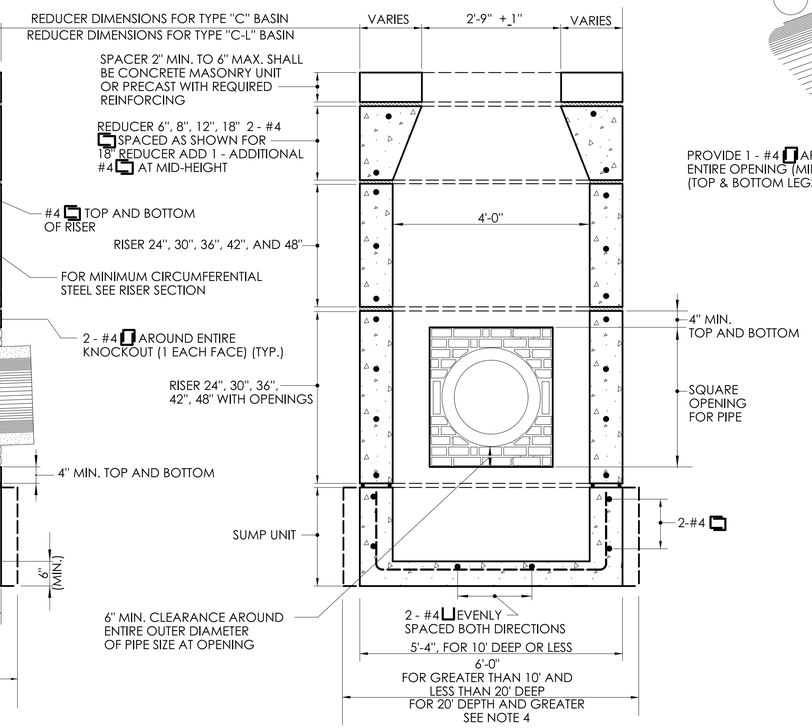
BUTYL RUBBER JOINT DETAIL



PLAN

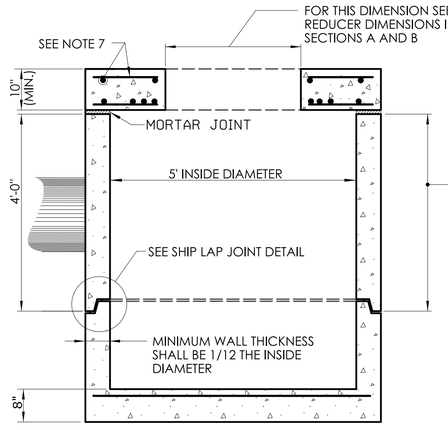


SECTION A



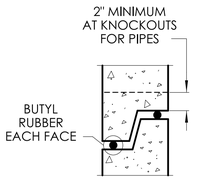
SECTION B

PRECAST CONCRETE TYPE "C" AND "C-L" CATCH BASIN
(UNDER 10' DEEP SHOWN)

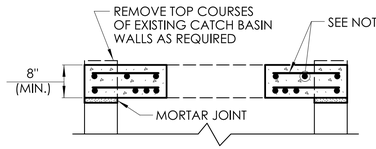


SECTION C

PRECAST CONCRETE
TYPE "C" AND "C-L" ROUND STRUCTURE
(SEE NOTE 6)



SHIP LAP JOINT DETAIL
(FOR USE WITH ROUND STRUCTURES ONLY)



SECTION D

TOP SLAB TO CONVERT
CATCH BASIN TO MANHOLE

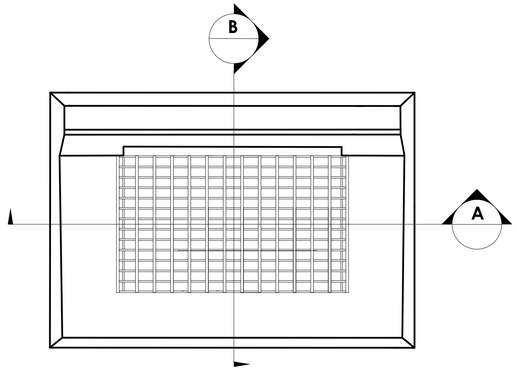
	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 14:32:06-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 11:46:58-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: PRECAST CATCH BASIN AND ROUND STRUCTURE / STANDARD SHEET NO.: HW- 586_04

PLOTTED DATE: 9/21/2022

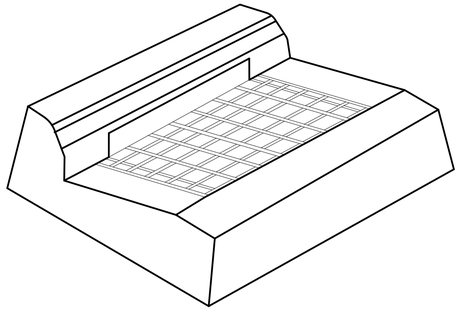
GENERAL NOTES:

1. SEE SHEET HW-586_08, FOR CATCH BASIN FRAMES AND GRATES AND HW-586_09 FOR CATCH BASIN LOCK DOWN TOPS.
2. SEE SHEET HW-586_01, CATCH BASIN AND DROP INLET TYPES "C" AND "C-L" TO DETERMINE THE TOP OF FRAME DEPRESSION AT THE GUTTER.
3. ALL BARS SHALL HAVE A MINIMUM 2" COVER.
4. Manufacturing Dimensional Tolerance Table

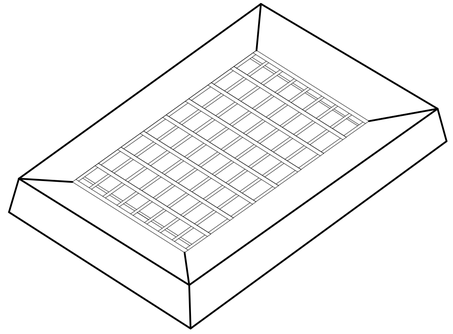
Any Dimension (D)	Allowable Tolerance
D < 5"	± ¼"
5" ≤ D ≤ 10"	± ½"
D > 10"	± 1"



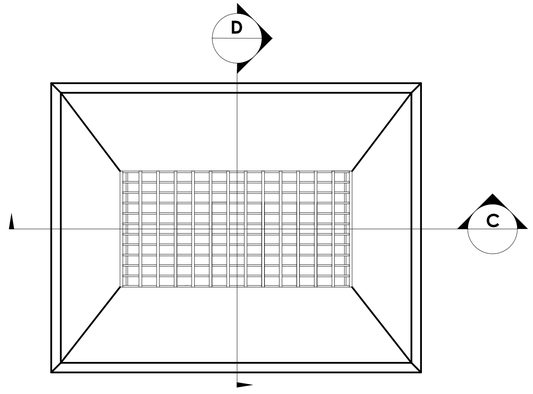
TYPE "C" CATCH BASIN TOP PLAN



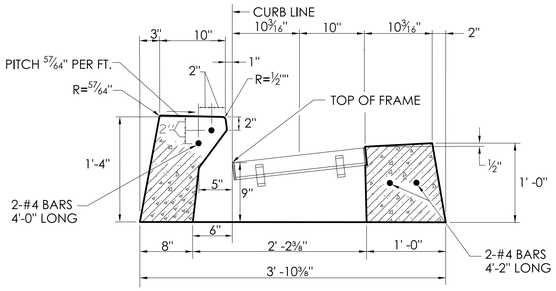
TYPE "C" CATCH BASIN TOP



TYPE "C-L" CATCH BASIN TOP

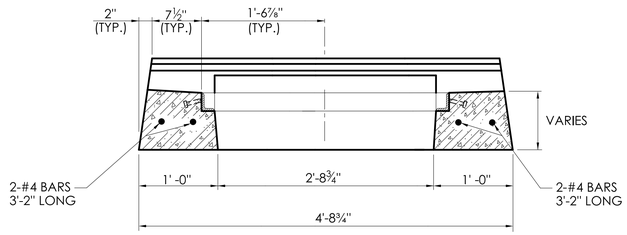


TYPE "C-L" CATCH BASIN TOP PLAN



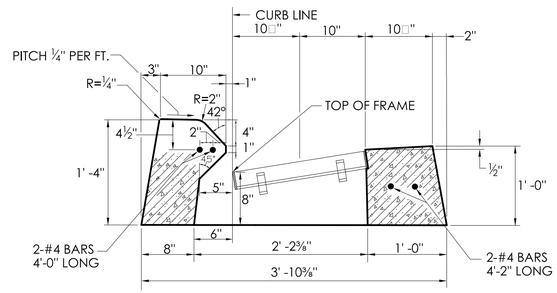
TYPE "C" CATCH BASIN TOP FOR 6" CONCRETE CURBING OR 6" STONE CURBING

SECTION B



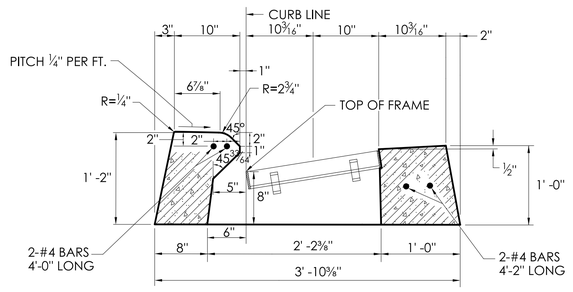
TYPE "C" CATCH BASIN TOP

SECTION A



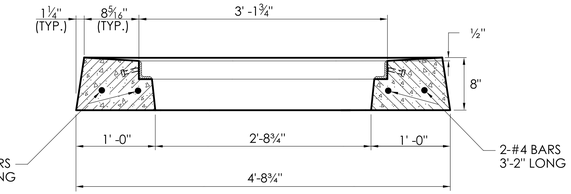
TYPE "C" CATCH BASIN TOP FOR 6" BITUMINOUS CONCRETE LIP CURBING

SECTION B



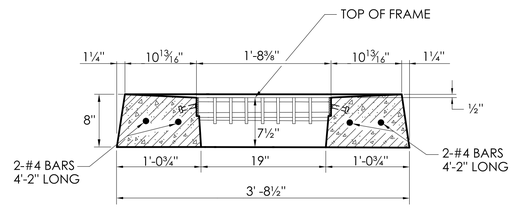
TYPE "C" CATCH BASIN TOP FOR 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING

SECTION B



TYPE "C-L" CATCH BASIN TOP

SECTION C

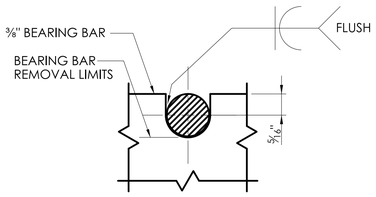


TYPE "C-L" CATCH BASIN TOP

SECTION D

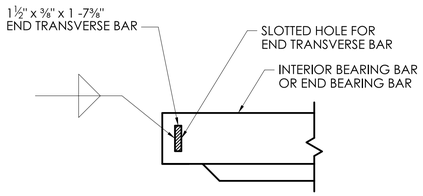
	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.10.05 14:17:48-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.09 13:53:03-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CATCH BASIN TYPE "C" AND "C-L" TOPS	STANDARD SHEET NO.: HW- 586_07a

PLOTTED DATE: 9/21/2022

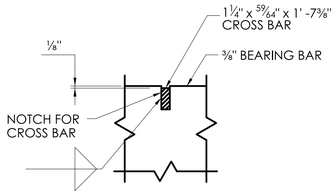


NOTE:
⅝" DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

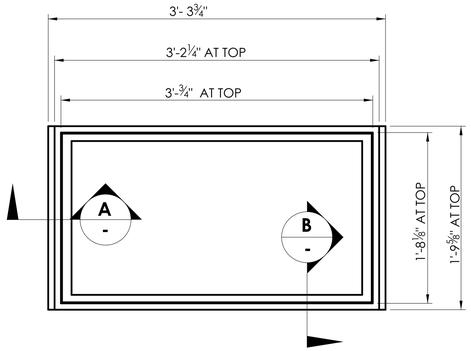
ROUND BAR ATTACHMENT
CATCH BASIN GRATE TYPE A



END TRANSVERSE BAR ATTACHMENT
CATCH BASIN GRATE TYPE A AND B



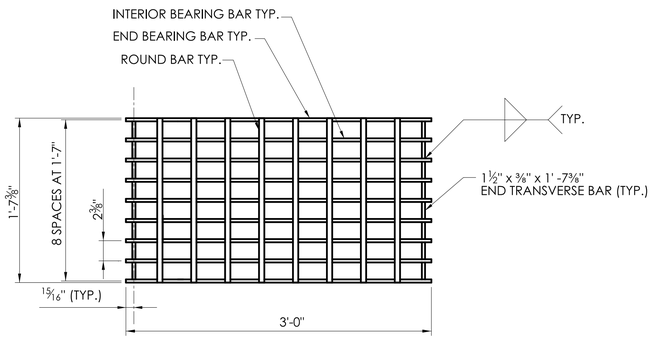
CROSS BAR ATTACHMENT
CATCH BASIN GRATE TYPE B



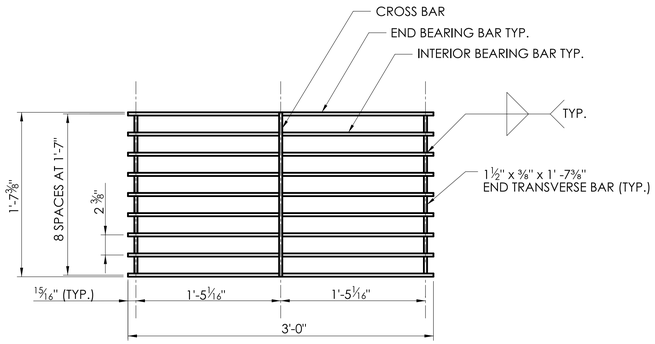
PLAN

GENERAL NOTES:

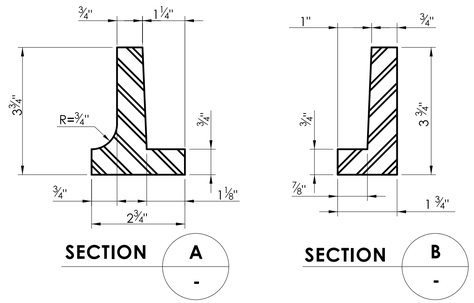
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" AND "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR ON HEAVY DUTY LOCK DOWN TOPS AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, 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 ± 3/16".
6. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.



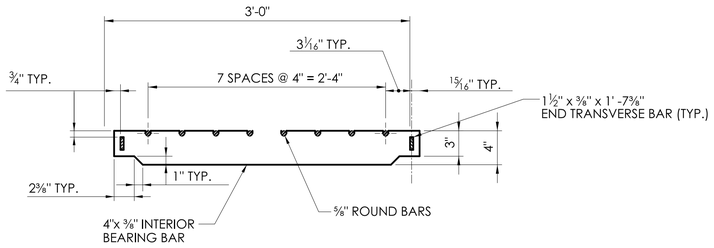
PLAN



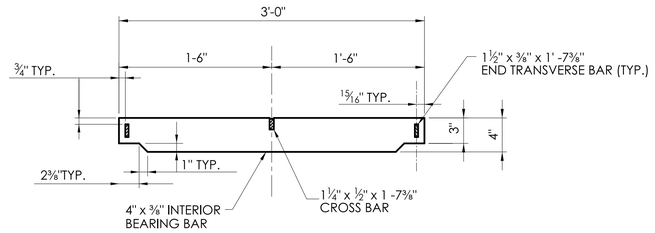
PLAN



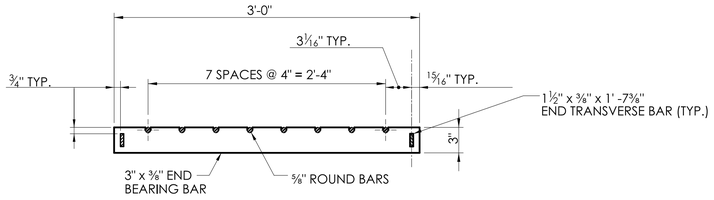
CAST IRON FRAME ALTERNATE



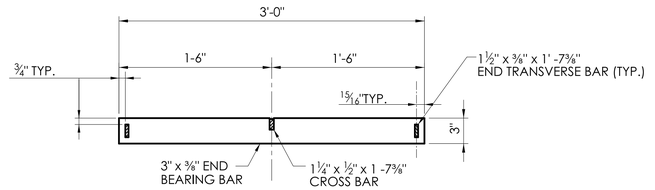
ELEVATION- INTERIOR BEARING BAR



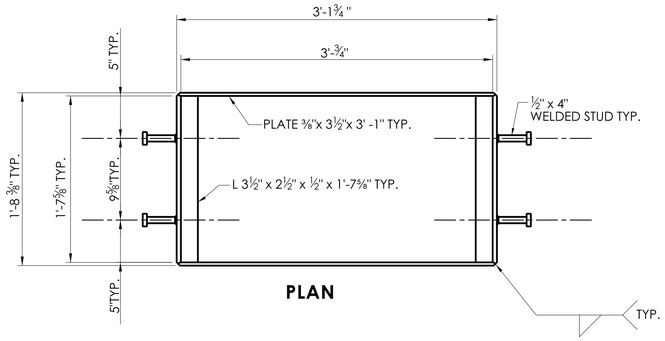
ELEVATION- INTERIOR BEARING BAR



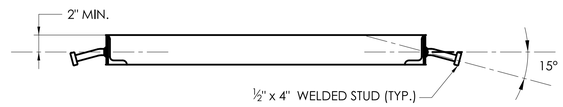
ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE A



ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE B



PLAN



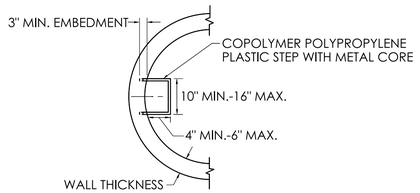
WELDED STUD ANCHOR DETAILS
STEEL FRAME

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.10.05 14:19:16-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.09 14:00:56-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CATCH BASIN FRAMES AND GRATES	STANDARD SHEET NO.: HW- 586_08

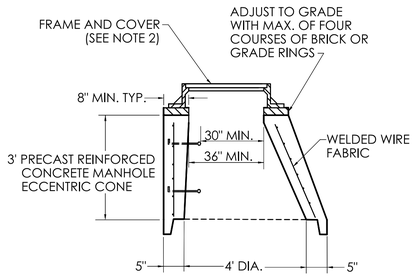
PLOTTED DATE: 9/21/2022

GENERAL NOTES:

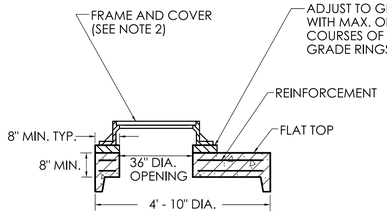
1. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE.
2. SEE SHEETS HW-586_10a, AND HW-586_10b FOR MANHOLE FRAME, GRATE AND COVER DETAIL.



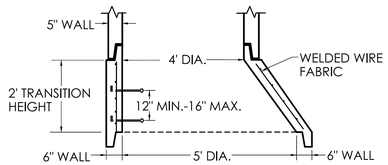
STEP DETAIL



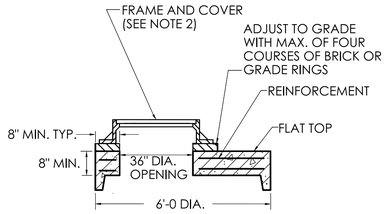
ECCENTRIC CONE SECTION



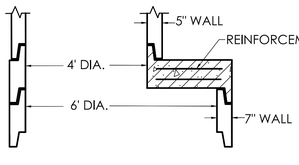
FLAT SLAB TOP FOR RISER SECTION



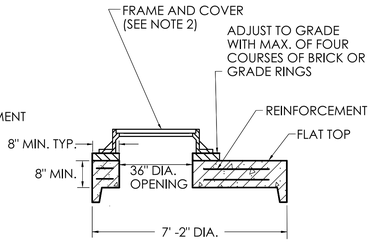
TRANSITION SECTION



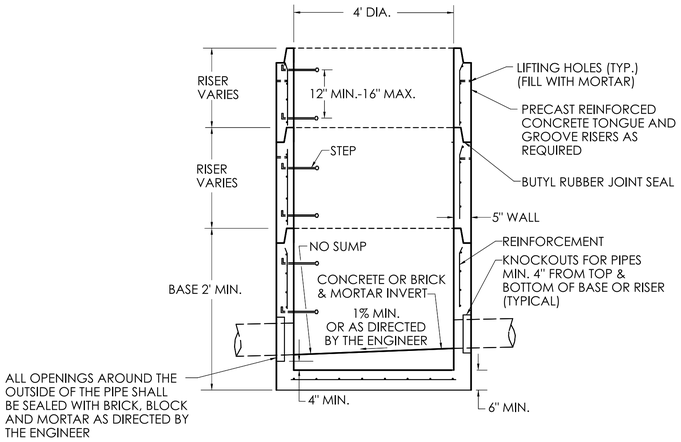
FLAT SLAB TOP FOR RISER SECTION



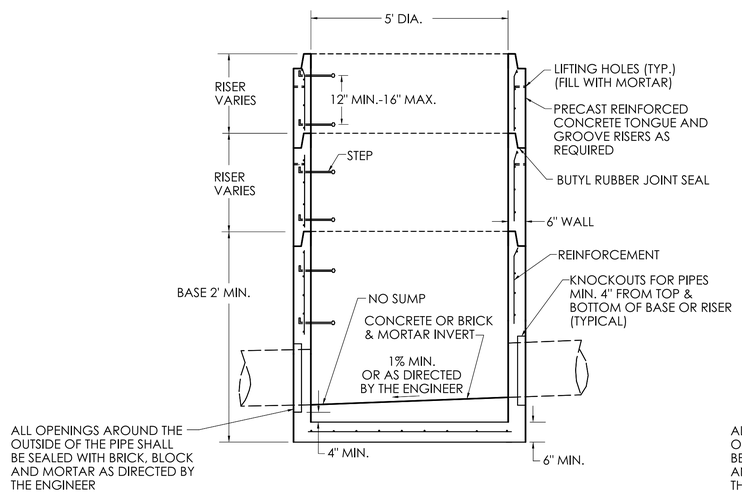
REDUCER SECTION



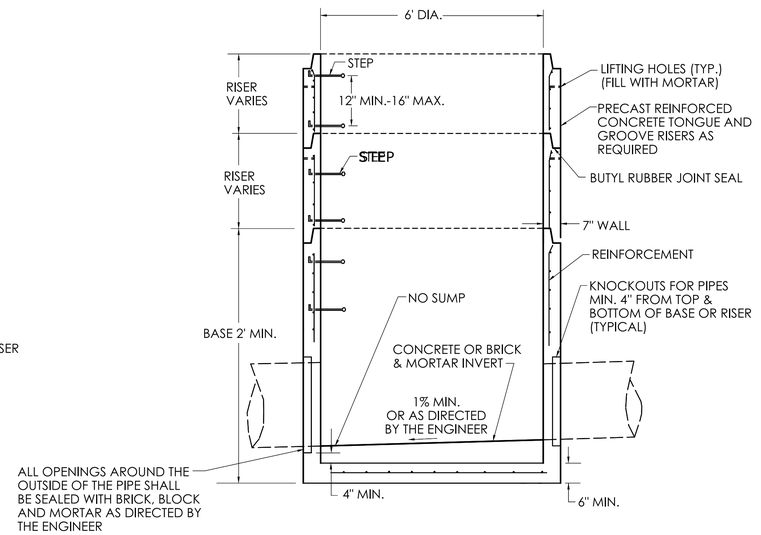
FLAT SLAB TOP FOR RISER SECTION



4' DIAMETER REINFORCED PRECAST CONCRETE MANHOLE SECTION



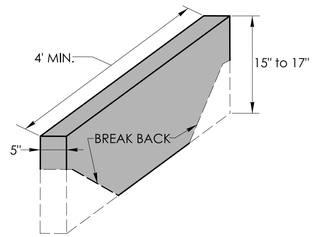
5' DIAMETER REINFORCED PRECAST CONCRETE MANHOLE SECTION



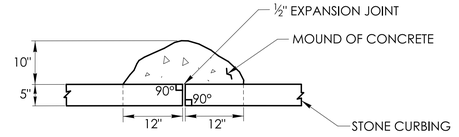
6' DIAMETER REINFORCED PRECAST CONCRETE MANHOLE SECTION

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 14:36:19-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 11:44:21-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: REINFORCED PRECAST CONCRETE MANHOLE	STANDARD SHEET NO.: HW- 586_10c

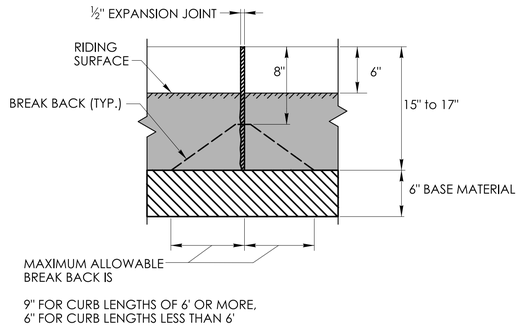
PLOTTED DATE: 9/21/2022



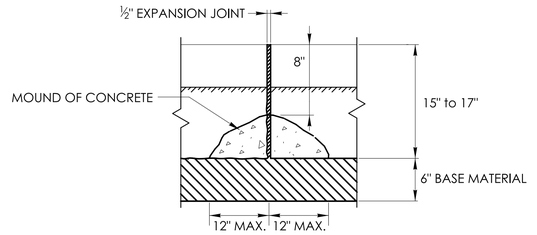
STONE CURBING



PLAN

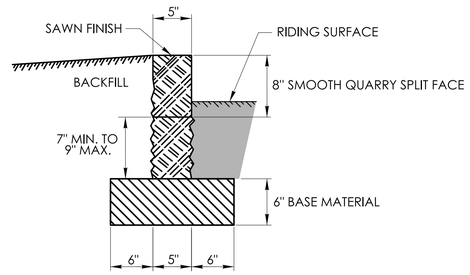


FRONT ELEVATION



BACK ELEVATION

MOUND OF CONCRETE AT ALL JOINTS FOR STONE CURBING



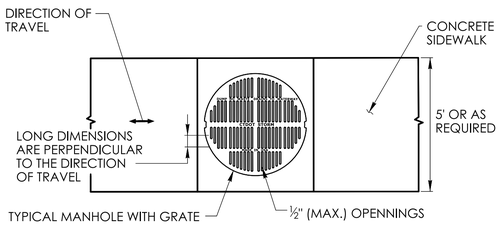
SECTION

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 14:42:55-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 11:40:25-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	**CTDOT STANDARD SHEET**	STANDARD SHEET TITLE: **STONE CURBNG**	STANDARD SHEET NO.: **HW-813_02**

PLOTTED DATE: 9/23/2022

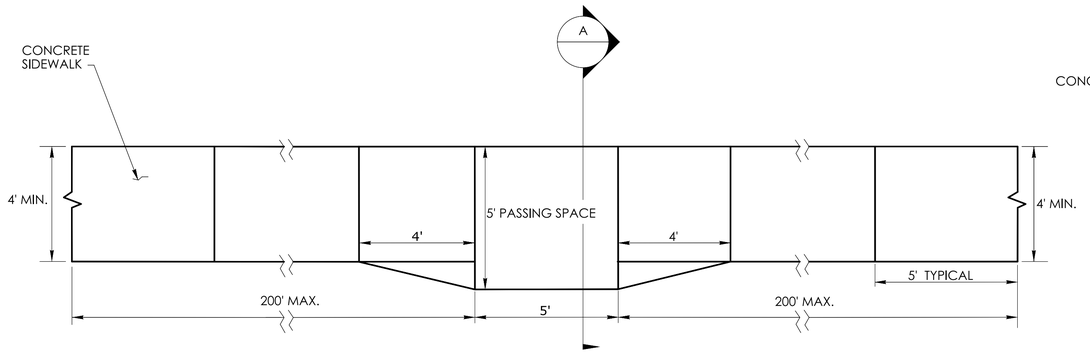
GENERAL NOTES:

1. SEE CONCRETE SIDEWALK RAMPS GUIDE SHEETS FOR PEDESTRIAN RAMP TYPES.
2. ALL CURBING SHALL BE INSTALLED AS EITHER PRECAST OR CAST IN PLACE AS DIRECTED.



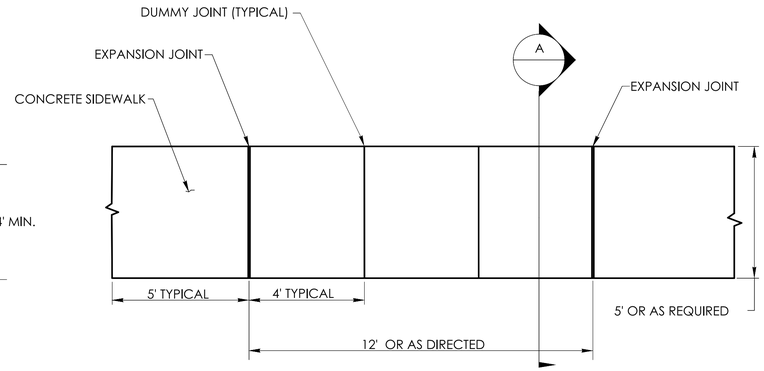
PEDESTRIAN ACCESS ROUTE OVER A MANHOLE WITH GRATE

1. HORIZONTAL OPENINGS IN GRATES AND JOINTS MUST NOT BE MORE THAN ½ INCH
2. ELONGATED OPENINGS IN GRATES MUST BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DIRECTION OF TRAVEL

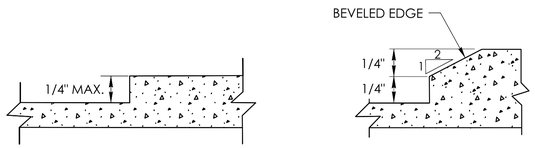


5' PASSING SPACE FOR 4' WIDE SIDEWALK PLAN

PASSING SPACES SHALL BE PROVIDED AT INTERVALS OF 200' MAXIMUM FOR SIDEWALKS LESS THAN 5' IN WIDTH

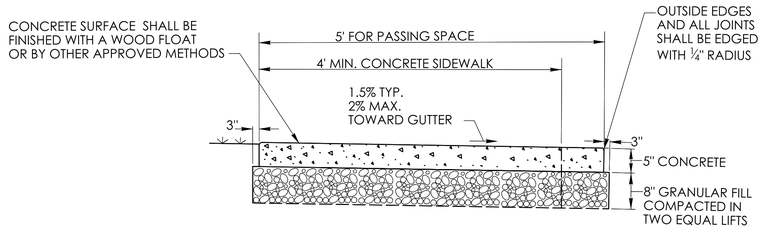


5' WIDE SIDEWALK PLAN



VERTICAL SURFACE DISCONTINUITIES

VERTICAL SURFACE DISCONTINUITIES MUST BE BEVELED TO A HEIGHT NOT GREATER THAN ¼ INCH. THE BEVEL MUST BE THE ENTIRE WIDTH OF THE DISCONTINUITY

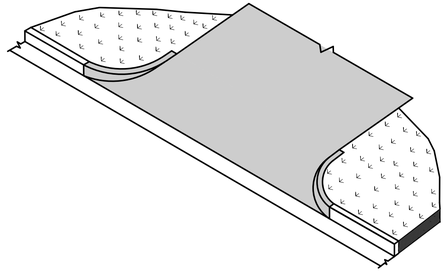


5' PASSING SPACE FOR 4' WIDE SIDEWALK

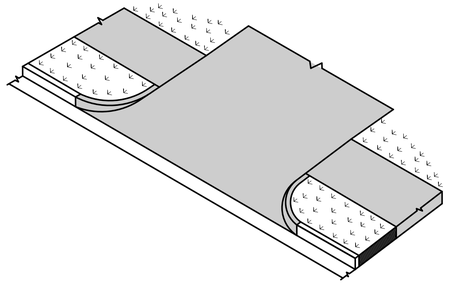
SECTION A

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 15:15:58-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 09:42:54-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CONCRETE SIDEWALKS / STANDARD SHEET NO.: HW-921_01

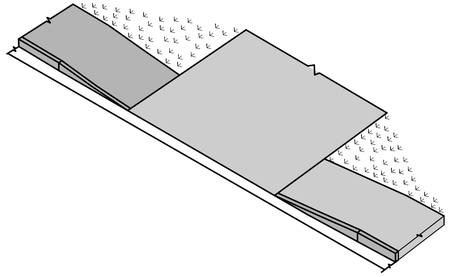
PLOTTED DATE: 9/23/2022



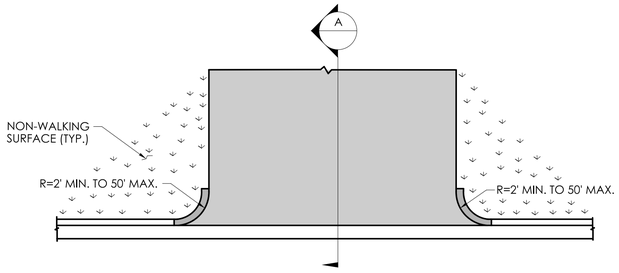
BITUMINOUS CONCRETE DRIVEWAY



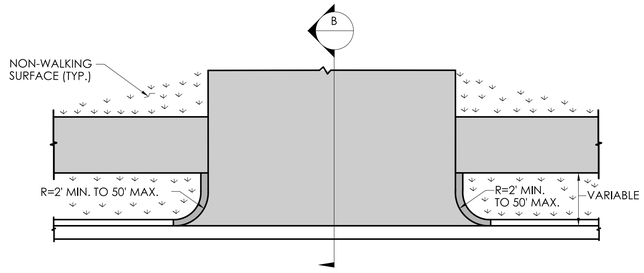
BITUMINOUS CONCRETE DRIVEWAY
WITH A PEDESTRIAN SIDEWALK SETBACK



BITUMINOUS CONCRETE DRIVEWAY
WITH PEDESTRIAN SIDEWALK AT THE CURB



PLAN



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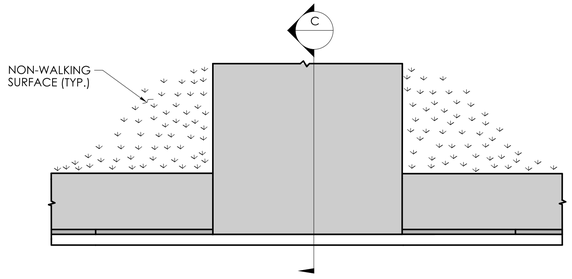

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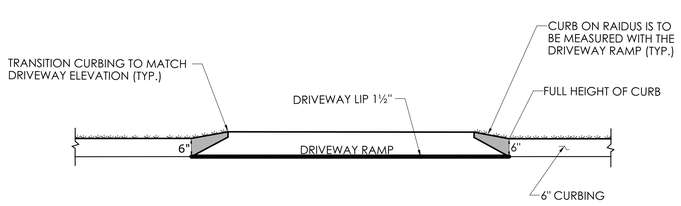

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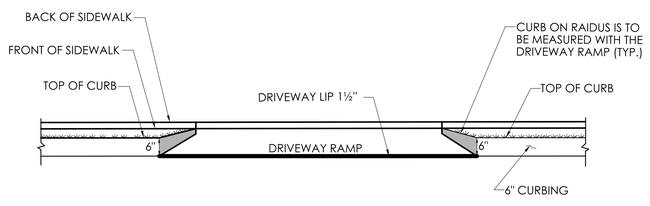

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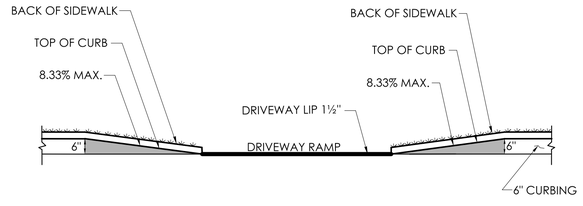

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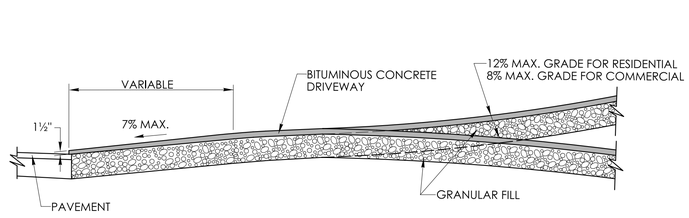
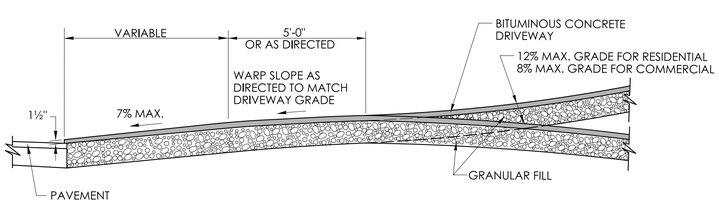


SECTION A



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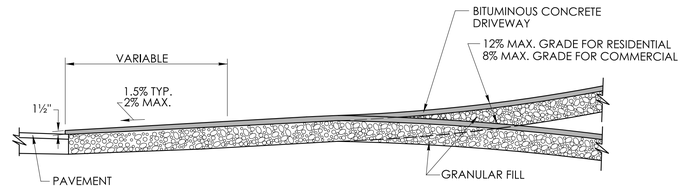

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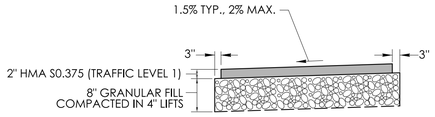
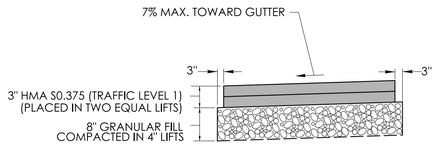
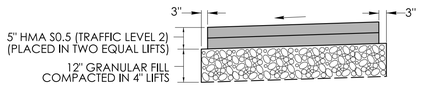


BITUMINOUS CONCRETE SIDEWALK



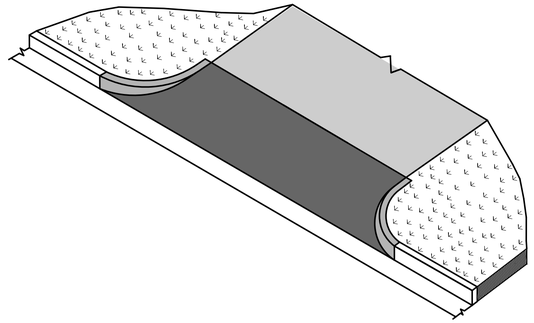
BITUMINOUS CONCRETE DRIVEWAY



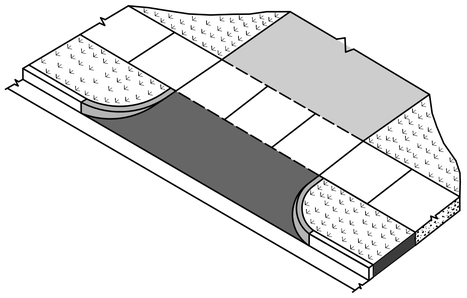
COMMERCIAL
BITUMINOUS CONCRETE DRIVEWAY

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 15:14:43-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 09:41:50-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	**CTDOT STANDARD SHEET**	STANDARD SHEET TITLE: **BITUMINOUS CONCRETE SIDEWALK AND BITUMINOUS CONCRETE DRIVEWAY**	STANDARD SHEET NO.: **HW-922_01**

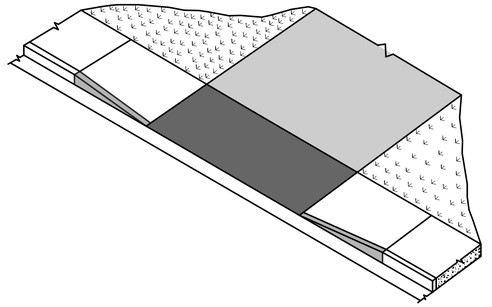
PLOTTED DATE: 9/23/2022



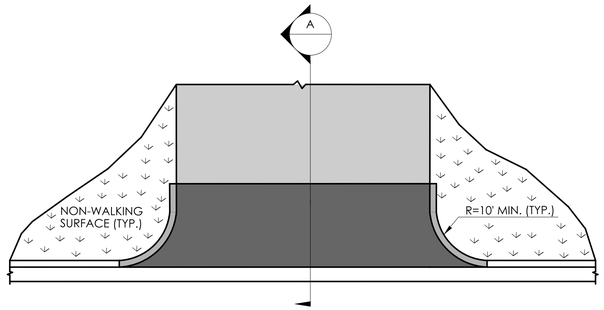
CONCRETE DRIVEWAY RAMP



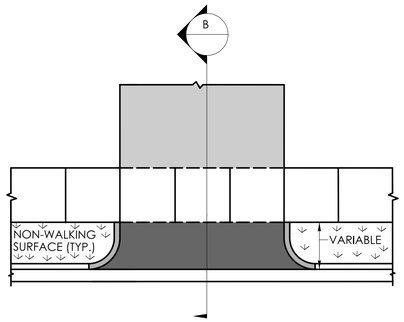
CONCRETE DRIVEWAY RAMP
WITH A PEDESTRIAN SIDEWALK SETBACK



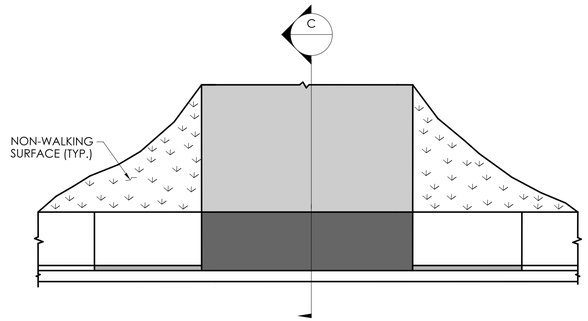
CONCRETE DRIVEWAY RAMP
WITH PEDESTRIAN SIDEWALK AT THE CURB



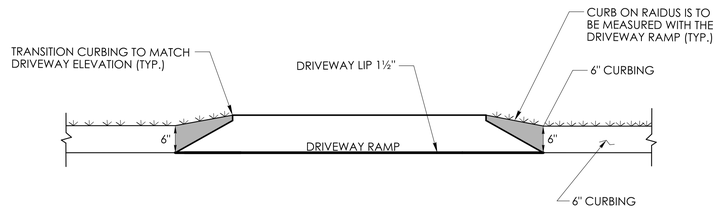
PLAN



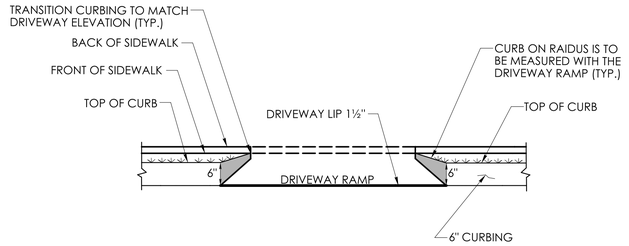
PLAN



PLAN



ELEVATION



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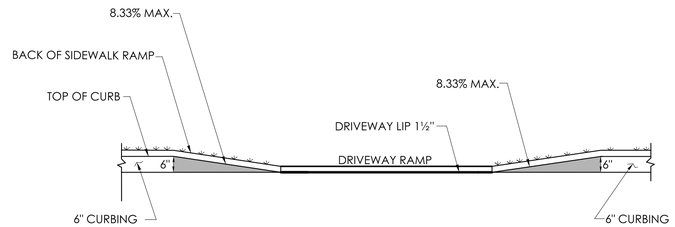
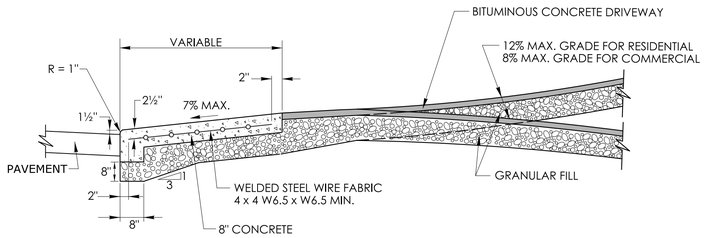
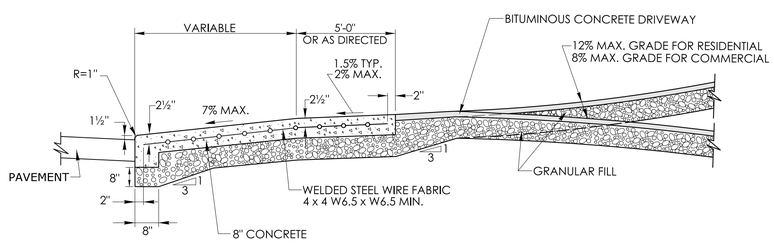


ELEVATION



SECTION A



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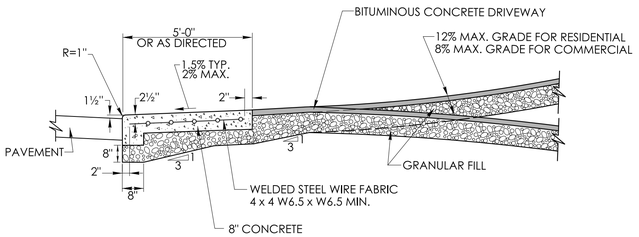
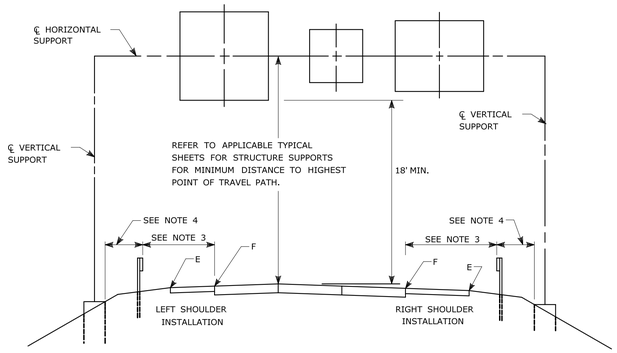


SECTION C

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.10.05 14:20:04-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.09 14:04:44-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	**CTDOT STANDARD SHEET**	STANDARD SHEET TITLE: **CONCRETE DRIVEWAY RAMPS**	STANDARD SHEET NO.: **HW-924_01**

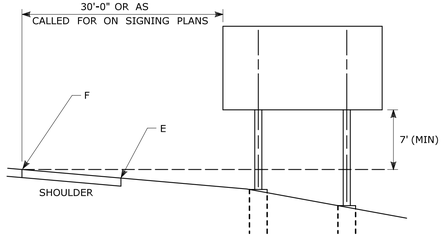
PLOTTED DATE: 10/5/2022



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.

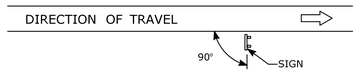


DIAGRAM "A"

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.

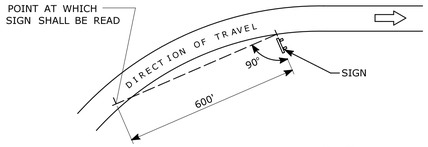
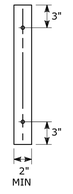


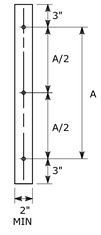
DIAGRAM "B"

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

RETROREFLECTIVE STRIPS 48" LONG OR LESS:



RETROREFLECTIVE STRIPS OVER 48" LONG:

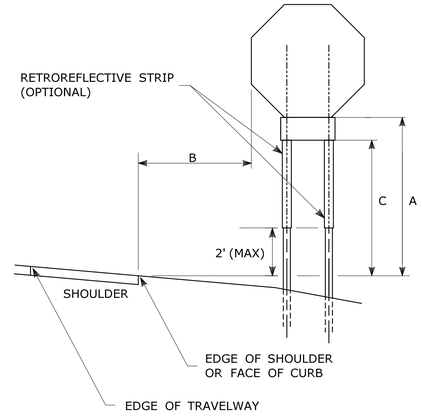


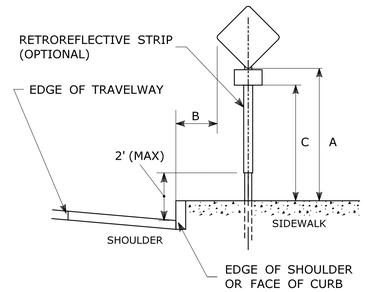
RETROREFLECTIVE STRIP DETAIL

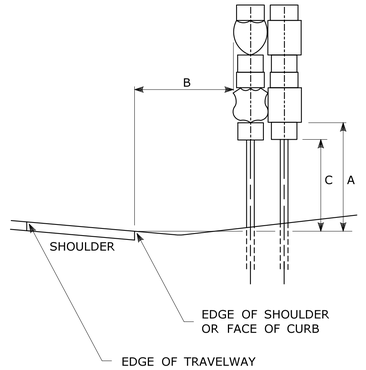
NOTES:

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 RETFOREFLECTIVE 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 RAMPS • DO NOT ENTER AND WRONG WAY SIGNS ON LIMITED ACCESS HIGHWAYS
5'	2'	N/A	• CHEVRON ALIGNMENT SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, AND IN RURAL AREAS • ONE-DIRECTION LARGE ARROW SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, 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.

Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR_1208_01_1_2018.dgn Model: TR-1208_01

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:06:06-04'00'

APPROVED BY: NAME/DATE/TIME:
Mark F. Carlino, P.E.
2018.08.21 07:48:06-04'00'

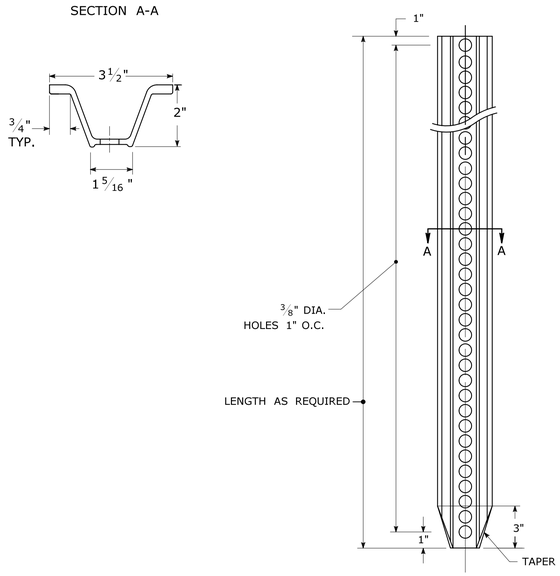
CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

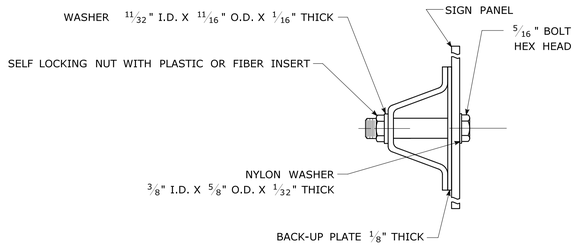
STANDARD SHEET TITLE:
SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS

STANDARD SHEET NO.:
TR-1208_01

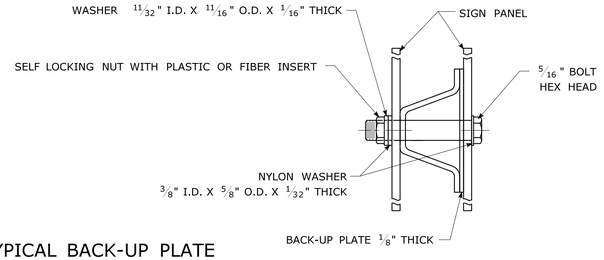
TYPICAL METAL SIGN POSTS



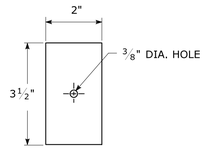
TYPICAL SIGN PANEL ATTACHMENT



TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT



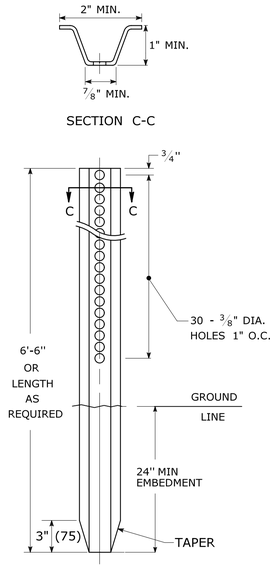
TYPICAL BACK-UP PLATE



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.

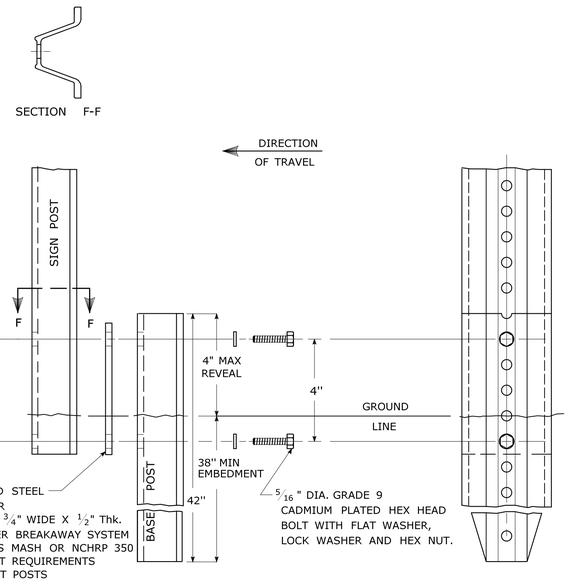


GENERAL NOTES:

1. 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.
2. AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123.
3. WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
4. SPACER BAR FOR BREAKAWAY INSTALLATION SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A36.
5. ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153.
6. 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.
7. SIGN POSTS SHALL BE 4 LBS./FT.

BREAKAWAY INSTALLATION

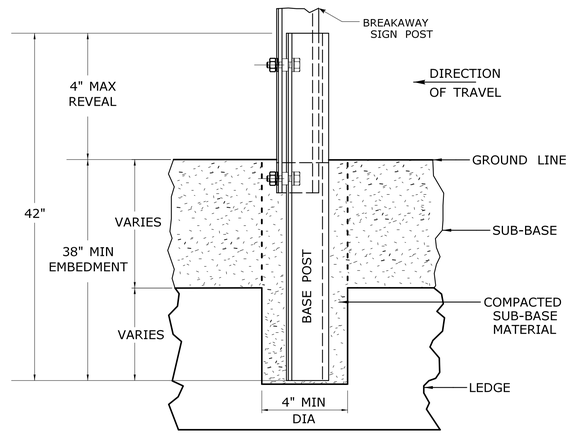
FOR 4 LBS./FT. POSTS



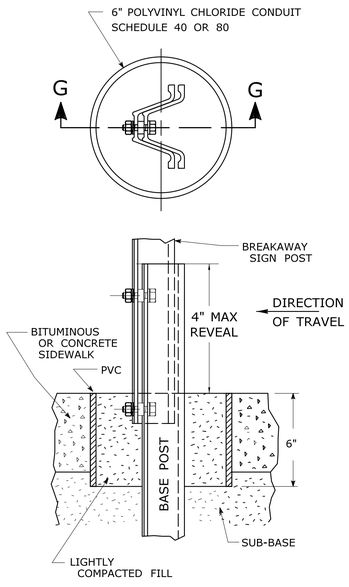
TYPICAL SIGN POST INSTALLATION IN LEDGE

LEDGE SHALL BE REMOVED TO DRIVE THE BASE POST TO A DEPTH OF 38".

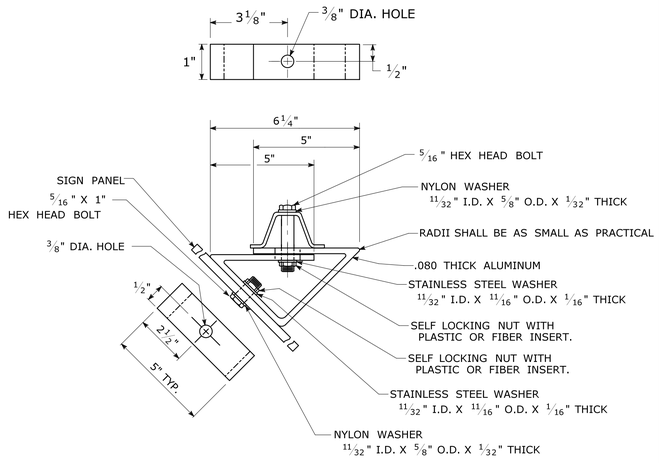
HOLE SHALL BE FILLED WITH SUB-BASE MATERIAL AND COMPACTED WITH A TAMPING BAR, OR TECHNIQUE APPROVED BY THE ENGINEER, PRIOR TO BASE POST INSTALLATION.



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.

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

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1208_02_May_2017_Revision.dgn Model: TR-1208_02

SUBMITTED BY:	NAME/DATE/TIME:
Mark Makuch	Mark F. Makuch, P.E. 2017.06.07 07:30:30-04'00'
Mary E. Baker	Mary E. Baker, P.E. 2017.06.13 15:28:14-04'00'
APPROVED BY:	NAME/DATE/TIME:
Gregory M. Dorosh	Gregory M. Dorosh, P.E. 2017.06.15 09:27:29-04'00'

CTDOT STANDARD SHEET

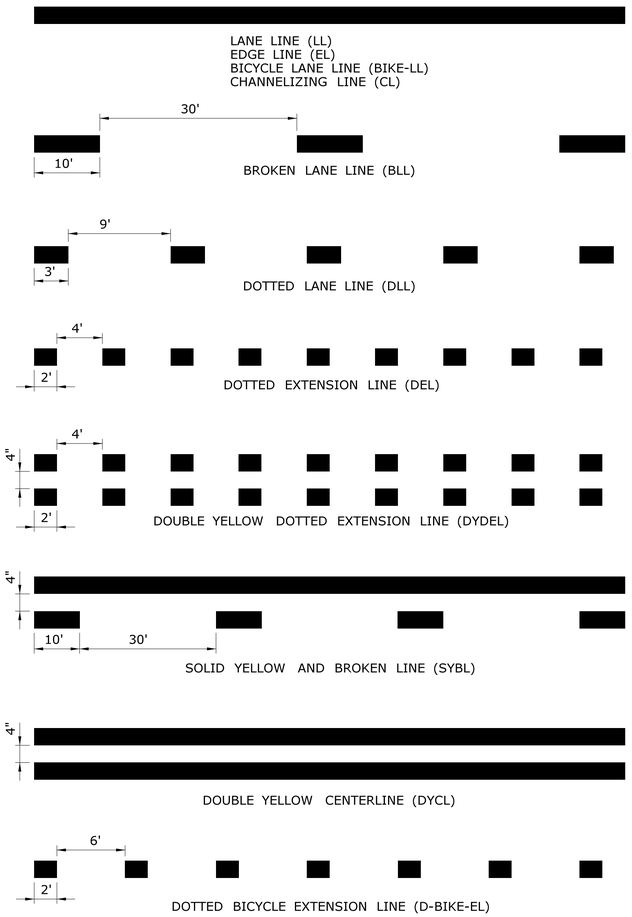
OFFICE OF ENGINEERING

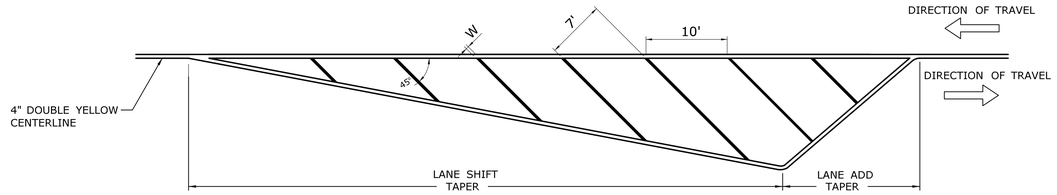
STANDARD SHEET TITLE:

METAL SIGN POSTS AND SIGN MOUNTING DETAILS

GUIDE SHEET NO.:

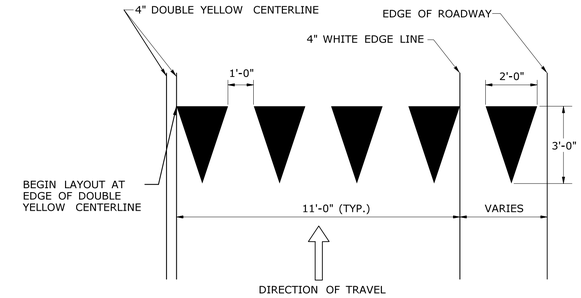
TR-1208_02



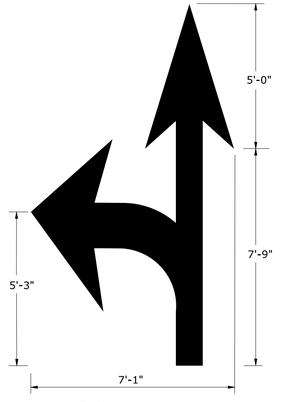


CROSS HATCHED ISLAND DETAIL
(YELLOW)

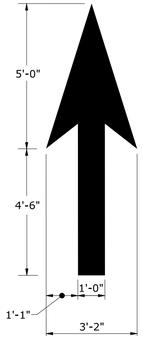
W IS TO BE 6" WHEN POSTED SPEED ≤ 45 MPH
W IS TO BE 12" WHEN POSTED SPEED > 45 MPH
CROSS HATCHED ISLANDS ARE TO BE INSTALLED WHERE CALLED FOR ON THE PLANS



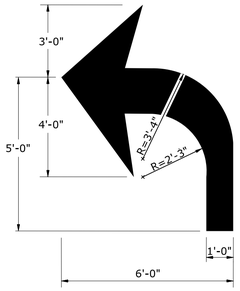
YIELD LINE DETAIL
(WHITE)



REFER TO ADJACENT VIEWS FOR DIMENSIONING
27.0 S.F.



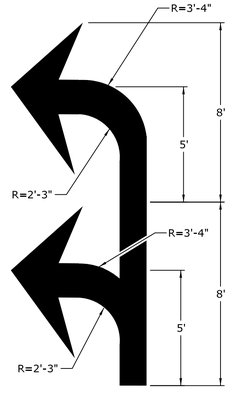
12.5 S.F.



15.5 S.F.

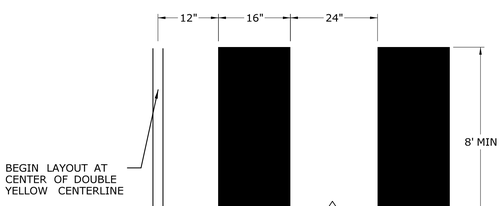
27.0 S.F.
LEFT & RIGHT
ARROW COMBO

38.5 S.F.
3 WAY ARROW
COMBO



35 S.F.
DOUBLE LEFT
ARROW

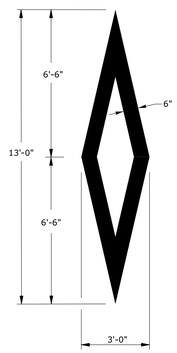
PAVEMENT ARROW DETAILS
(WHITE)
ARROWS SHALL BE CENTERED IN TRAVEL LANE



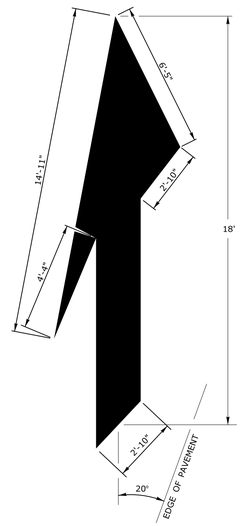
CROSSWALK DETAIL
(WHITE)

NOTES :

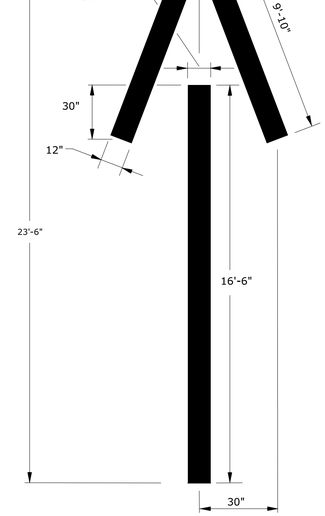
1. AREA OF PAVEMENT MARKINGS AS INDICATED IS APPROXIMATE.
2. RIGHT TURN PAVEMENT MARKING ARROWS ARE MIRROR IMAGE OF LEFT TURN PAVEMENT MARKING ARROWS.



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.

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

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Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1210_04.dgn Model: CT_Civil_2D_Sheet

SUBMITTED BY:	NAME/DATE/TIME:
Mark Makuch	Mark F. Makuch, P.E. 2018.08.17 09:07:44-04'00'
APPROVED BY:	NAME/DATE/TIME:
	Mark F. Carlino, P.E. 2018.08.21 07:48:45-04'00'

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

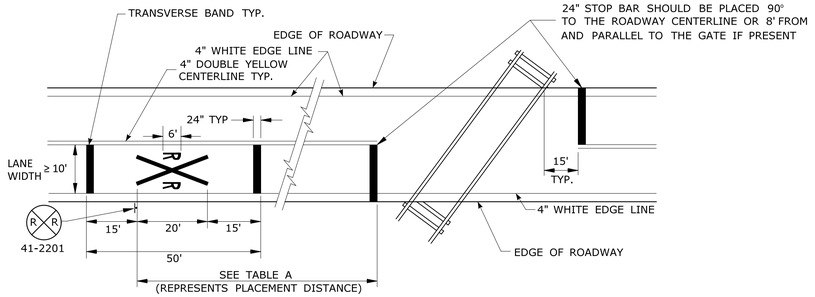
STANDARD SHEET TITLE:

PAVEMENT MARKING LINES AND SYMBOLS

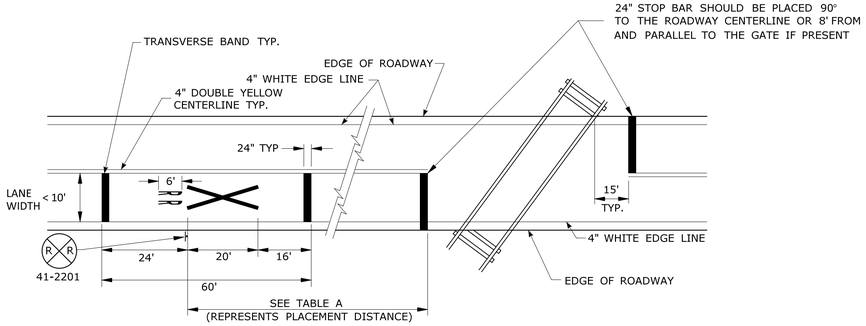
STANDARD SHEET NO.:

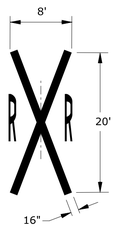
TR-1210_04

TYPICAL RAILROAD GRADE CROSSING DETAIL (LANE WIDTH ≥ 10')

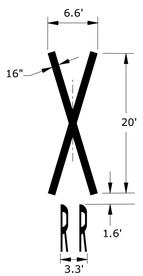


TYPICAL RAILROAD GRADE CROSSING DETAIL (LANE WIDTH < 10')

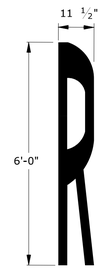




67.5 S.F.



67.5 S.F.



5.75 S.F.

TABLE A	
POSTED OR 85 PERCENTILE SPEED M.P.H.	MINIMUM DISTANCE FT.
20	100
25	100
30	100
35	100
40	125
45	175
50	250
55	325
60	400
65	475

NOTES:

GENERAL:

1. AREA OF PAVEMENT MARKING SYMBOLS AS INDICATED IS APPROXIMATE.
2. REFER TO STANDARD SHEET TR-1210_04 FOR PAVEMENT MARKING LINE DETAILS.

RAILROAD GRADE CROSSINGS:

3. RAILROAD MARKINGS SHALL BE WHITE.
4. ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS THE APPROACH LANES AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

PARKING STALLS:

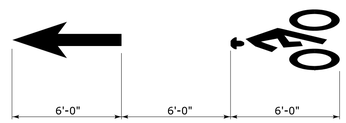
(5) AUTOMOBILE ACCESSIBLE PARKING SPACES SHALL BE 15' WIDE INCLUDING 5' OF CROSSHATCH.

(6) VAN ACCESSIBLE PARKING SPACES SHALL BE 16' WIDE INCLUDING 8' OF CROSSHATCH.

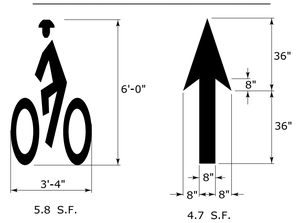
(7) ACCESS AISLES FOR ANGLED VAN PARKING SPACES SHALL BE LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACE.

8. CROSS HATCHED ACCESS AISLES SHALL NOT BE SHARED BETWEEN PARKING SPACES.

TYPICAL LONGITUDINAL SPACING



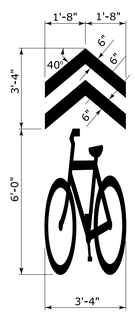
BICYCLE LANE SYMBOL MARKINGS



5.8 S.F.

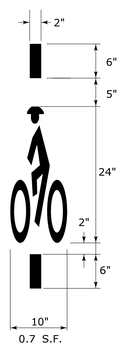
4.7 S.F.

SHARED LANE SYMBOL MARKING



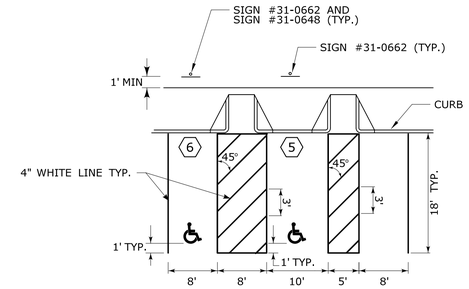
9.7 S.F.

BICYCLE DETECTOR SYMBOL MARKING

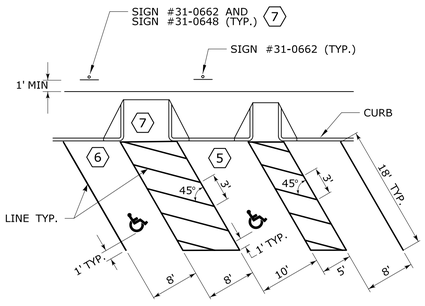


0.7 S.F.

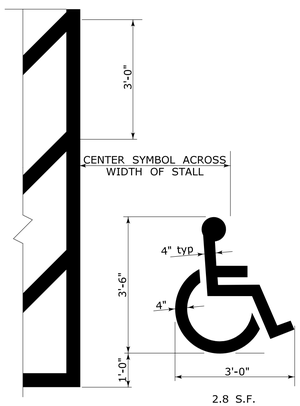
TYPICAL PERPENDICULAR PARKING STALLS DETAIL



TYPICAL ANGLE PARKING STALLS DETAIL



ACCESSIBLE PARKING SPACE SYMBOL



2.8 S.F.

REV.	DATE	REVISION DESCRIPTION

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: 4/3/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1210_09.dgn Model: CT_Civil_2D_Sheet

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E. 2017.04.19 11:17:36-04'00'

APPROVED BY: NAME/DATE/TIME:
Gregory M. Dorosh, P.E. 2017.04.20 13:26:20-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RAILROAD GRADE CROSSINGS

STANDARD SHEET NO.:

TR-1210_09

E5 - SERIES

E5-1

COPY & BORDER - WHITE
BACKGROUND - GREEN

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	51-6147	2

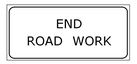
16 - SERIES

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16-M	5.0	30X24	80-1613	1
16-H	17.5	60X42	80-1608	2
16-E	35.0	84X60	80-1605	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16-S	10.0	48X30	80-1619	2

G20 - SERIES

G20-2a



	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	8.0	48X24	80-9612	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9711	1
	16.0	48	80-9712	2

VARIABLE MILEAGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	7.0	72X14	80-9720	

VARIABLE ARROW
COPY & BORDER - WHITE
BACKGROUND - BLUE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	50-5934	2

G20-2a

VARIABLE MILEAGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	90.0	120X108	80-9728	

M4 - SERIES

M4-8

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.0	24X12	80-9707	1

M4-8a

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	3.0	24X18	80-9708	1

M4-10

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	6.0	48X18	80-9701R	2
	6.0	48X18	80-9702L	2

VARIABLE ARROW

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.0	30X24	80-9710	1

M4-9b

VARIABLE ARROW

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.0	30X24	80-9703	1

M4-9b

VARIABLE ARROW

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	6.25	30X30	80-9706	1

R4 - SERIES

R4-7

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.0	24X30	31-1526	1

R4-9

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.0	24X30	31-1517	1
	12.0	36X48	31-1518	1
	20.0	48X60	31-1519	2

R1 - SERIES

R1-1

COPY & BORDER - WHITE
BACKGROUND - RED

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.19	30	31-0552	1
	13.30	48	31-0557	2

R1-2

COPY & BORDER - RED
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	3.90	36	31-0523	1
	10.83	60	31-0528	2

R9 & R11 - SERIES

R9-9

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	3.75	30X18	80-9076	1

R9-11

VARIABLE ARROW
COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	3.0	24X18	80-9074	1

R9-11a

VARIABLE ARROW
COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.0	24X12	80-9075	1

R11-2

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	10.0	48X30	80-9080	2

R11-3a

VARIABLE MILEAGE
COPY & BORDER - BLACK
BACKGROUND - WHITE

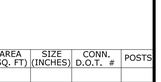
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	12.5	60X30	80-9077	2

R11-3b

VARIABLE MILEAGE
COPY & BORDER - BLACK
BACKGROUND - WHITE

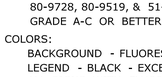
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	12.5	60X30	80-9078	2

R11-3b



COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	12.5	60X30	80-9081	2



COPY & BORDER - BLACK
BACKGROUND - WHITE

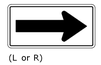
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	14.0	48X42	31-1906	2
	22.5	60X54	31-1907	2

W1 - SERIES

W1-4

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9432L	1
	9.0	36	80-9431R	1
	16.0	48	80-9452L	2
	16.0	48	80-9451R	2

W1-6

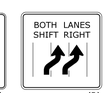


	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	8.0	48X24	80-9424	2
	12.5	60X30	80-9423	2

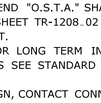
W1-8

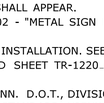
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	3.0	18X24	80-9401	1
	5.0	24X30	80-9403	1
	7.5	30X36	80-9404	1

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9433L	2
	16.0	48	80-9435R	2



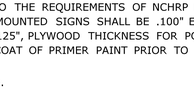
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9434L	2
	16.0	48	80-9436R	2



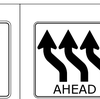


	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	25.0	60	80-9443L	2
	25.0	60	80-9445R	2

W1-4b

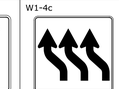


	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	25.0	60	80-9444L	2
	25.0	60	80-9446R	2



	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	25.0	60	80-9483L	2
	25.0	60	80-9485R	2

W1-4c



	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	25.0	60	80-9484L	2
	25.0	60	80-9486R	2

W3 - SERIES

W3-1

OCTAGON - RED W/ WHITE BORDER
ARROW & BORDER - BLACK
BACKGROUND - FLUORESCENT ORANGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9050	1
	16.0	48	80-9051	2

W3-2

TRIANGLE - RED W/ WHITE BORDER
ARROW & BORDER - BLACK
BACKGROUND - FLUORESCENT ORANGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9054	1
	16.0	48	80-9055	2

W3-3

TOP CIRCLE - RED
MIDDLE CIRCLE - YELLOW
BOTTOM CIRCLE - GREEN
COPY & BORDER - BLACK
BACKGROUND - FLUORESCENT ORANGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9052	1
	16.0	48	80-9053	2

W4-W6 - SERIES

W4-2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9918L	2
	16.0	48	80-9917R	2

W6-3

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9945	2

W8-W9 - SERIES

W8-1

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9901	1
	16.0	48	80-9902	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9801	1
	16.0	48	80-9802	2

W9-2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9910L	2
	16.0	48	80-9911R	2

W13 - SERIES

W13-1

SUBPLATE
VARIABLE SPEED

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	4.0	24	80-9569	1
	6.25	30	80-9567	1

VARIABLE SPEED

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9506	1
	16.0	48	80-9508	2

W3-5

VARIABLE SPEED

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9520	1
	16.0	48	80-9521	2

W16 - SERIES

W16-15P

COPY & BORDER - BLACK
BACKGROUND - ORANGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.0	24X12	80-9049	

W20 - SERIES

W20-1

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	6.25	30	80-9602	1
	9.0	36	80-9603	1
	16.0	48	80-9604	2

VARIABLE DISTANCE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9614	1
	16.0	48	80-9615	2

W20-2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9805	1
	16.0	48	80-9806	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9834	1
	16.0	48	80-9835	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	16.0	48	80-9836	2
(R)	16.0	48	80-9839	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	16.0	48	80-9837	2
(R)	16.0	48	80-9838	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	16.0	48	80-9847	2
(R)	16.0	48	80-9848	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	16.0	48	80-9846	2
(R)	16.0	48	80-9849	2

W20-7a

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9803	1
	16.0	48	80-9804	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	32.0	96X48	80-9815	2

W16-9P

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.0	24X12	80-9870	
	3.75	30X18	80-9871	

W16-3aP

VARIABLE MILEAGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.5	30X12	80-9872	
	4.5	36X18	80-9873	

W21 - SERIES

W21-6

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9607	1

W22 - SERIES

W22-1

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9620	1
	16.0	48	80-9625	2

W22-2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	10.5	42X36	80-9623	2

W22-3

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	10.5	42X36	80-9621	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	4.17	60X10	80-9913	2
	12.0	96X18	80-9914	2
	3.33	48X10	80-9916	2

BLANK OR
VARIABLE LEGEND

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9933	1
	16.0	48	80-9934	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9956	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	12.5	60X30	80-9928	2
	24.0	72X48	80-9929	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(1)	16.0	48	80-9957	2
(2)	9.0	36	80-9958	1
(2)	16.0	48	80-9959	2

STOP-SLOW PADDLE

SIDE A
BACKGROUND - RED
COPY & BORDER - WHITE
SIDE B
BACKGROUND - ORANGE
COPY & BORDER - BLACK PLAIN

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.25	18	80-9950	PADDLE

NOTES:
1. R1-SERIES SIGN THE LEGEND "O.S.T.A." SHALL APPEAR.
2. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS".
3. POSTS SHALL BE 4 LBS./FT.
4. ALL POSTS NOTED ARE FOR LONG TERM INSTALLATION. SEE STANDARD SHEET TR-1208_02.
5. FOR TEMPORARY SUPPORTS SEE STANDARD SHEET TR-1220_02 - "CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES".
6. FOR SPECIFIC SIGN DESIGN, CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
7. ALL CONSTRUCTION SIGNS TO BE PAID FOR UNDER THE CONSTRUCTION SIGNS ITEM IN THE CONTRACT.
8. MATERIALS & COLORS SHALL CONFORM TO STATE SPECIFICATIONS.

MATERIALS:
SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES. ALUMINUM THICKNESS FOR POST MOUNTED SIGNS SHALL BE .100" EXCEPT SIGN #s. 80-1605, 80-9914, 80-9815, 80-9728, 80-9519, & 51-6147 (L OR R) WHICH SHALL BE .125", PLYWOOD THICKNESS FOR POST MOUNTED SIGNS SHALL BE 1/2" EXTERIOR GRADE A-C OR BETTER. SIGN BLANKS SHALL HAVE ONE COAT OF PRIMER PAINT PRIOR TO APPLICATION OF RETROREFLECTIVE SHEETING & COPY.

COLORS:
BACKGROUND - FLUORESCENT ORANGE - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL SIGNS WITH FLUORESCENT ORANGE BACKGROUND TO USE TYPE VIII RETROREFLECTIVE SHEETING.
ALL OTHER SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION
6	8-2018	REVISED POST REQUIREMENTS AND SHEETING TYPE.
5	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
4	6-2012	REVISED NOTE #1 TO REFERENCE "O.S.T.A."
3	4-2012	REVISED NEW SIGNAL SIGN(S) TO CONFORM TO 2009 MUTCD.
2	2-2011	MINOR REVISIONS.
1	3-2010	REMOVED OBSOLETE SIGNS (50-5925, 50-5935).

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1220_01_1_2018.dgn Model: TR-1220_01

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:11:08-04'00'

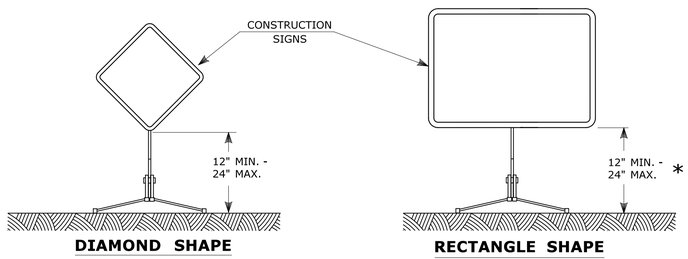
APPROVED BY: NAME/DATE/TIME:
Mark F. Carlino, P.E.
2018.08.21 07:49:34-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS

STANDARD SHEET NO.:
TR-1220_01

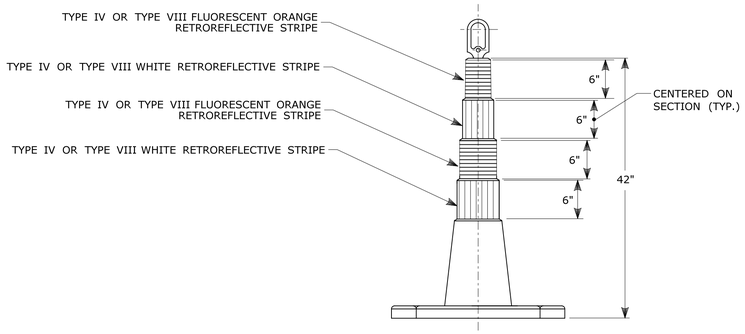


PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

1. 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.
2. 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.
3. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
4. 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.
5. 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.

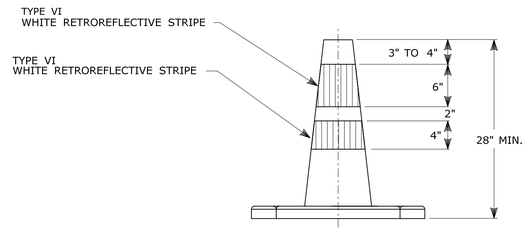
* FOR E5-1 (EXIT SIGNS) USE MIN 48".



42" TRAFFIC CONE

NOTES:

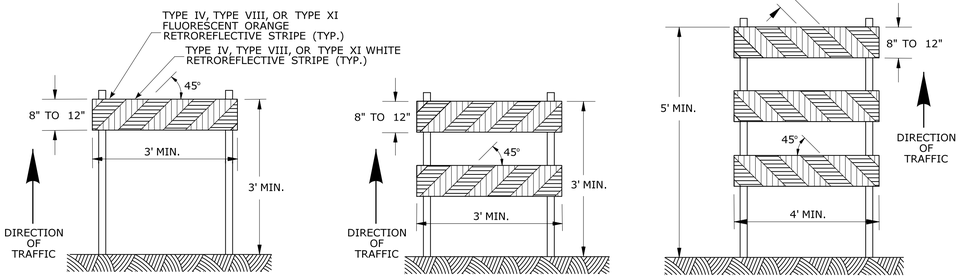
1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER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



TRAFFIC CONE

NOTES:

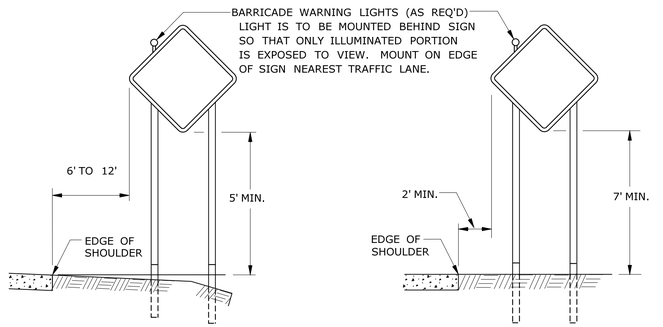
1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER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



CONSTRUCTION BARRICADES

NOTES:

1. CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
2. 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.
3. 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.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
6. SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.

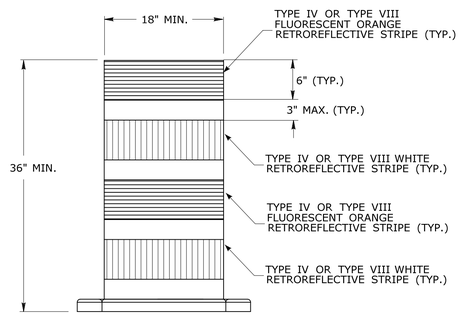


PLACEMENT OF CONSTRUCTION SIGNS
TYPICAL LONG TERM INSTALLATION

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:

1. 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.
2. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
3. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
4. THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

REV.	DATE	REVISION DESCRIPTION
3	8-2018	UPDATED SHEETING TYPE AND COLOR.
2	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
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.

Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1220_02_3_2018.dgn Model: TR-1220_02

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:12:43-04'00'

APPROVED BY: NAME/DATE/TIME:
Mark F. Carlino, P.E.
2018.08.21 07:49:51-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

STANDARD SHEET NO.:
TR-1220_02