

Site Plans

Issued for Local Approvals
 Date Issued May 26, 2023
 Latest Issue August 23, 2023

Proposed Commercial Development

1263 Hopmeadow Street
 Simsbury, Connecticut

Owner/Applicant

Prospect Enterprises, LLC
 231 Farmington Avenue
 Farmington, CT 06032

Zone: General Business (B2)

Assessor's Map: 105

Block: 403

Lots: 017, 017R, 018, 020-1



Sheet Index			Reference Drawings		
No.	Drawing Title	Latest Issue	No.	Drawing Title	Latest Issue
C-1	Legend & General Notes	August 23, 2023	TT-1	Truck Movement Plan	August 23, 2023
C-2	Layout and Materials Plan	August 23, 2023	TT-2	Truck Movement Plan Fire Truck	August 23, 2023
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C-4	Utility Plan	August 23, 2023	Sv-1	Property Survey and Topographic Survey	April 20, 2022
C-5	Erosion and Sediment Control Plan	August 23, 2023	SL-IA	Site Lighting Photometric Calculation	April 19, 2023
C-6	Site Details	August 23, 2023	A-9	Retail Building-Exterior Elevations	August 17, 2023
C-7	Site Details	August 23, 2023	A-13	Starbucks Exterior Elevations	August 17, 2023
C-8	Site Details	August 23, 2023	A-15	Chipotle Elevations	August 17, 2023
C-9	Site Details	August 23, 2023	HW-586_01	Catch Basin and Drop Inlet Types "C" and "C-L" Structures	November 9, 2022
C-10	Site Details	August 23, 2023	HW-586_07a	Catch Basin Type "C" and "C-L" Tops	November 9, 2022
C-11	Site Details	August 23, 2023	HW-586_10a	Manhole Frame and Cover	November 2, 2022
C-12	Site Details	August 23, 2023	HWY-0815_01	Bituminous Concrete Curbing	September 27, 2022
L-1	Planting Plan	August 23, 2023	HWY-0921_01	Concrete Sidewalk	September 27, 2022
L-2	Planting Details	August 23, 2023	TR_1210_04	Pavement Markings, Lines & Symbols	August 17, 2018
			TR_1210_08	Pavement Markings for Non Freeways	August 17, 2018



100 Great Meadow Road
 Suite 200
 Wethersfield, CT 06109
 860.807.4300

Land Surveyor

VHB, Inc.
 100 Great Meadow Rd
 Suite 200
 Wethersfield, CT 06109
 860-807-4300

Lighting Consultant

Apex Lighting Solutions
 20 Beaver Rd
 Wethersfield, CT 06109
 860-632-8766

Architect

BKA Architects
 142 Crescent St
 Brockton, MA 02302
 508-583-5603





100 Great Meadow Road
Suite 200
Wethersfield, CT 06109
860.807.4300

Legend

Legend table with columns for Exist. and Prop. symbols and descriptions for various site features like property lines, pavements, utilities, and structures.

Abbreviations

Abbreviations table listing symbols and names for general site elements such as ABAN (ABANDON), ACR (ACCESSIBLE CURB RAMP), and various utility symbols.

Notes

- Notes section containing 14 numbered items detailing construction requirements, safety protocols, and utility handling procedures.

Layout and Materials

- Layout and Materials section with 6 numbered items specifying dimensions, curbing, and construction standards.

Demolition

- Demolition section with 5 numbered items outlining removal and disposal procedures for existing structures and materials.

Erosion Control

- Erosion Control section with 4 numbered items detailing measures to prevent soil erosion during construction.

Existing Conditions Information

- Existing Conditions Information section with 1 item regarding the survey sheet used for the project.

Document Use

- Document Use section with 3 numbered items explaining the use of CADD documents and electronic versions.

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1263 Hopmeadow Street
Simsbury, Connecticut

Table with 4 columns: No., Revision, Date, and Approval, showing a single revision dated 8/23/2023.

Designed by: [Signature] Checked by: [Signature]
Issued for: Local Approvals Date: May 26, 2023

Legend & General Notes

Professional Engineer seal for Paul D. DeLorenzo, State of Connecticut, License No. 22827, dated 8/23/23. Includes Project Number 42810.00 and a large 'C-1' label.



100 Great Meadow Road
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Zoning Summary Chart

Zoning District(S):	B2 - General Business	
Overlay District(S):	Level A - Aquifer Projection Zone	
Zoning Regulation Requirements	Required*	Provided
MINIMUM LOT AREA	NONE	±4.45 AC
FRONTAGE	NONE	371.7 Feet
FRONT YARD BUILDING SETBACK	25 Feet	64.2 Feet
FRONT YARD PARKING SETBACK	25 Feet	25 Feet
SIDE YARD BUILDING SETBACK	20 Feet	52.3 Feet
SIDE YARD PARKING SETBACK	15 Feet	15 Feet
REAR YARD BUILDING SETBACK	25 Feet	69.1 Feet
REAR YARD PARKING SETBACK	25 Feet	34.2 Feet
REAR YARD RESIDENTIAL LOADING SETBACK	50 Feet	59.1 Feet
MAXIMUM BUILDING HEIGHT	40 Feet	<40 Feet
MAXIMUM IMPERVIOUS	40.0%/60.0% **	59.7 %
DIRECTLY CONNECTED IMPERVIOUS AREA (DCIA)	-	2.6 Ac

* Zoning regulation requirements as specified in Simsbury Zoning Regulations dated 03/01/2022
 ** Per Section 4.4.B. The Zoning Commission may, after notice and public hearing, grant a special exception to allow up to 50 percent increase to the maximum coverage allowed in any zone.

Parking Summary Chart

Description	Size (FT)		Spaces	
	Required	Provided	Required	Provided
STANDARD SPACES	9 x 18	9 x 18	92	108
COMPACT SPACES (50% ALLOWED W/ SE)	8 x 16	8 x 16	N/A	N/A
STANDARD ACCESSIBLE SPACES *	15 x 18	15 x 18	3	4
VAN ACCESSIBLE SPACES	16 x 18	16 x 18	1	3
TOTAL SPACES			96	115

* ADA/STATE/LOCAL REGULATIONS REQUIRE 5 ACCESSIBLE PARKING SPACES FOR LOTS BETWEEN 101 TO 150 PARKING SPACES - 1 OF WHICH BEING VAN ACCESSIBLE

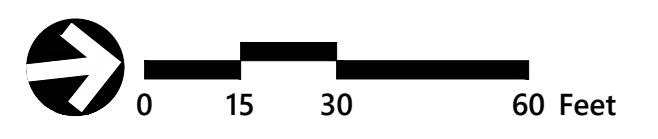
Parking Requirements:

RETAIL (OVER 10,000 GSF)	11,600 SF	x	2.75	/	500	=	64 SPACES
RESTAURANT 1	2,400 SF	x	3.3	/	500	=	16 SPACES
RESTAURANT 2	2,325 SF	x	3.3	/	500	=	16 SPACES
TOTAL PARKING REQUIRED =							96 SPACES

Sign Summary

CONNDOT Number	Specification		Desc.
	Width	Height	
31-0552	30"	30"	
31-1119	30"	30"	
31-0662	12"	24"	
31-0648	12"	6"	

* NOTE: ALL LINE STRIPING SHALL BE EPOXY RESIN OR A SLIP-RESISTANT MATERIAL TO AVOID POTENTIAL SLIP HAZARDS AT CROSSWALKS AND/OR CROSSINGS.



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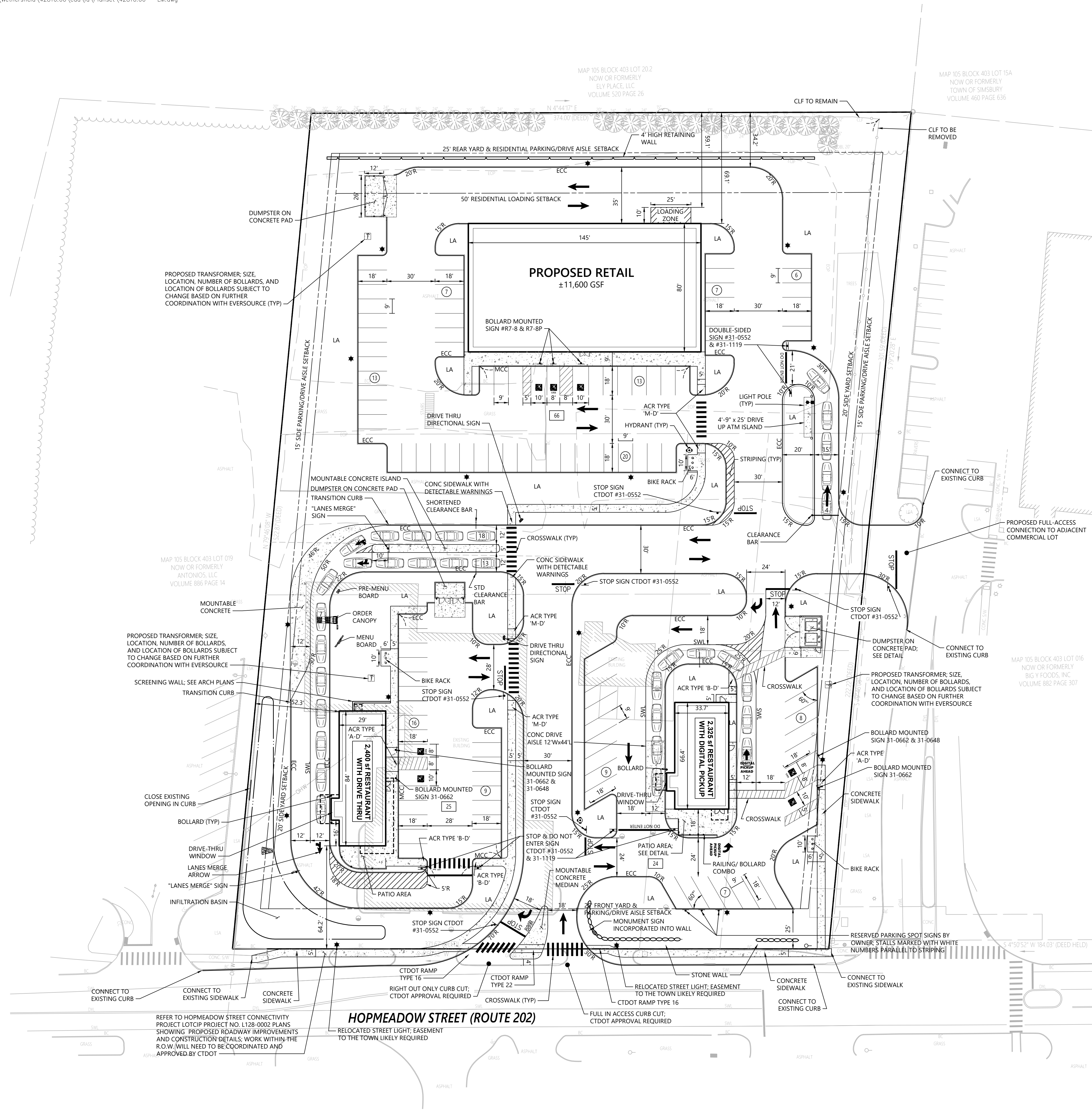
Designed by: _____ Checked by: _____
 Issued for: _____ Date: _____
Local Approvals May 26, 2023

Layout and Materials Plan

Drawing Title: _____
 Drawing Number: _____



C-2



PROPOSED TRANSFORMER: SIZE, LOCATION, NUMBER OF BOLLARDS, AND LOCATION OF BOLLARDS SUBJECT TO CHANGE BASED ON FURTHER COORDINATION WITH EVERSOURCE (TYP)

MAP 105 BLOCK 403 LOT 019 NOW OR FORMERLY ANTONIOS, LLC VOLUME 886 PAGE 14

PROPOSED TRANSFORMER: SIZE, LOCATION, NUMBER OF BOLLARDS, AND LOCATION OF BOLLARDS SUBJECT TO CHANGE BASED ON FURTHER COORDINATION WITH EVERSOURCE

MAP 105 BLOCK 403 LOT 016 NOW OR FORMERLY BIG Y FOODS, INC VOLUME 882 PAGE 307

REFER TO HOPMEADOW STREET CONNECTIVITY PROJECT LOT/CP PROJECT NO. 1128-0002 PLANS SHOWING PROPOSED ROADWAY IMPROVEMENTS AND CONSTRUCTION DETAILS; WORK WITHIN THE R.O.W. WILL NEED TO BE COORDINATED AND APPROVED BY CTDOT

HOPMEADOW STREET (ROUTE 202)

RELOCATED STREET LIGHT; EASEMENT TO THE TOWN LIKELY REQUIRED

RIGHT OUT ONLY CURB CUT; CTDOT APPROVAL REQUIRED

CTDOT RAMP TYPE 22

CROSSWALK (TYP)

RELOCATED STREET LIGHT; EASEMENT TO THE TOWN LIKELY REQUIRED

CTDOT RAMP TYPE 16

FULL IN ACCESS CURB CUT; CTDOT APPROVAL REQUIRED

RESERVED PARKING SPOT SIGNS BY OWNER; STALLS MARKED WITH WHITE NUMBERS PARALLEL TO STRIPING

STONE WALL

CONCRETE SIDEWALK

CONNECT TO EXISTING SIDEWALK

BIKE RACK

CONNECT TO EXISTING CURB

CONCRETE SIDEWALK

BIKE RACK

CONNECT TO EXISTING CURB

CONCRETE SIDEWALK

BIKE RACK

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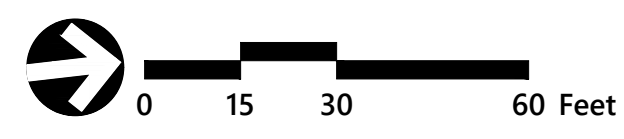
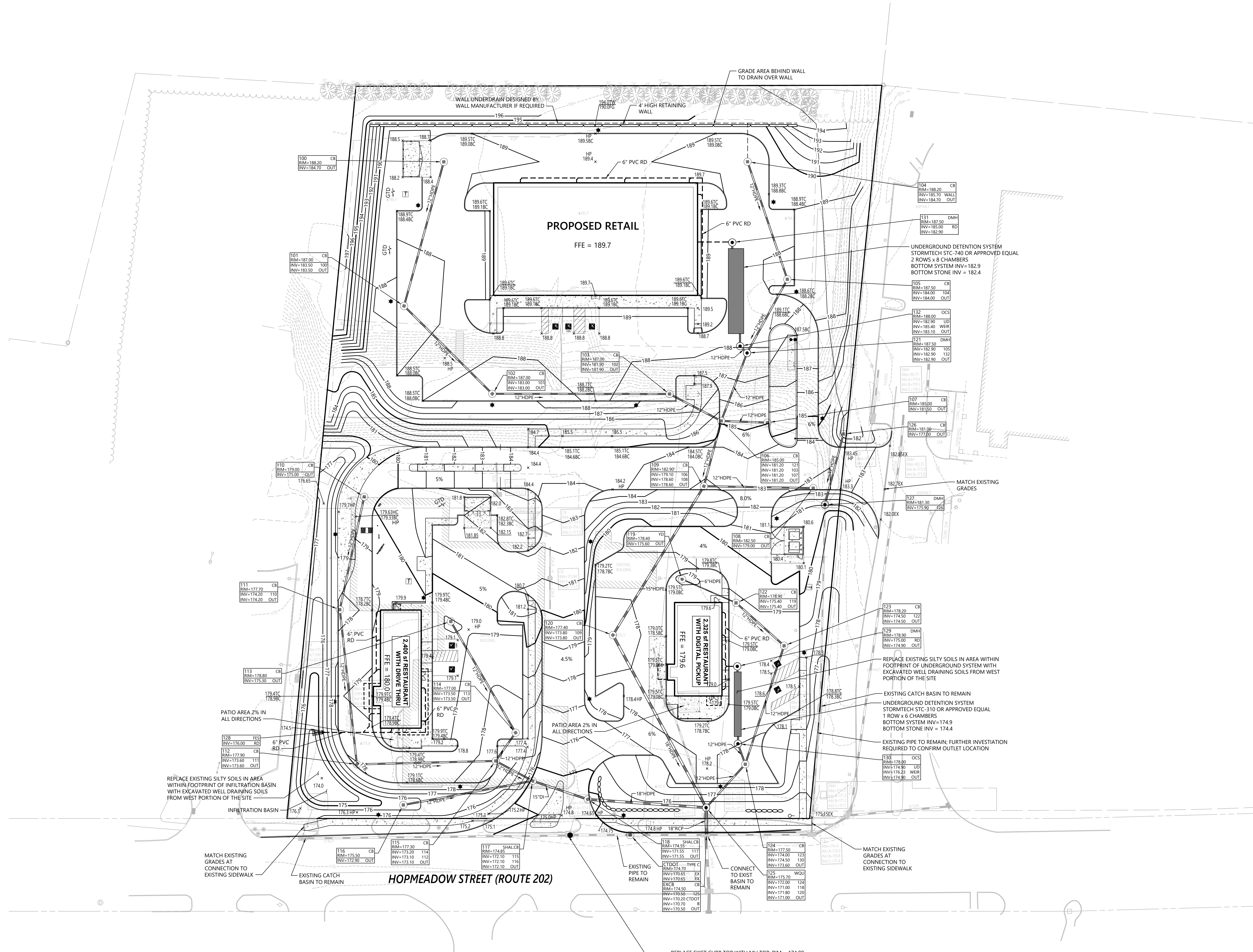
CONCRETE SIDEWALK

BIKE RACK

CONNECT TO EXISTING CURB

CONCRETE SIDEWALK

BIKE RACK



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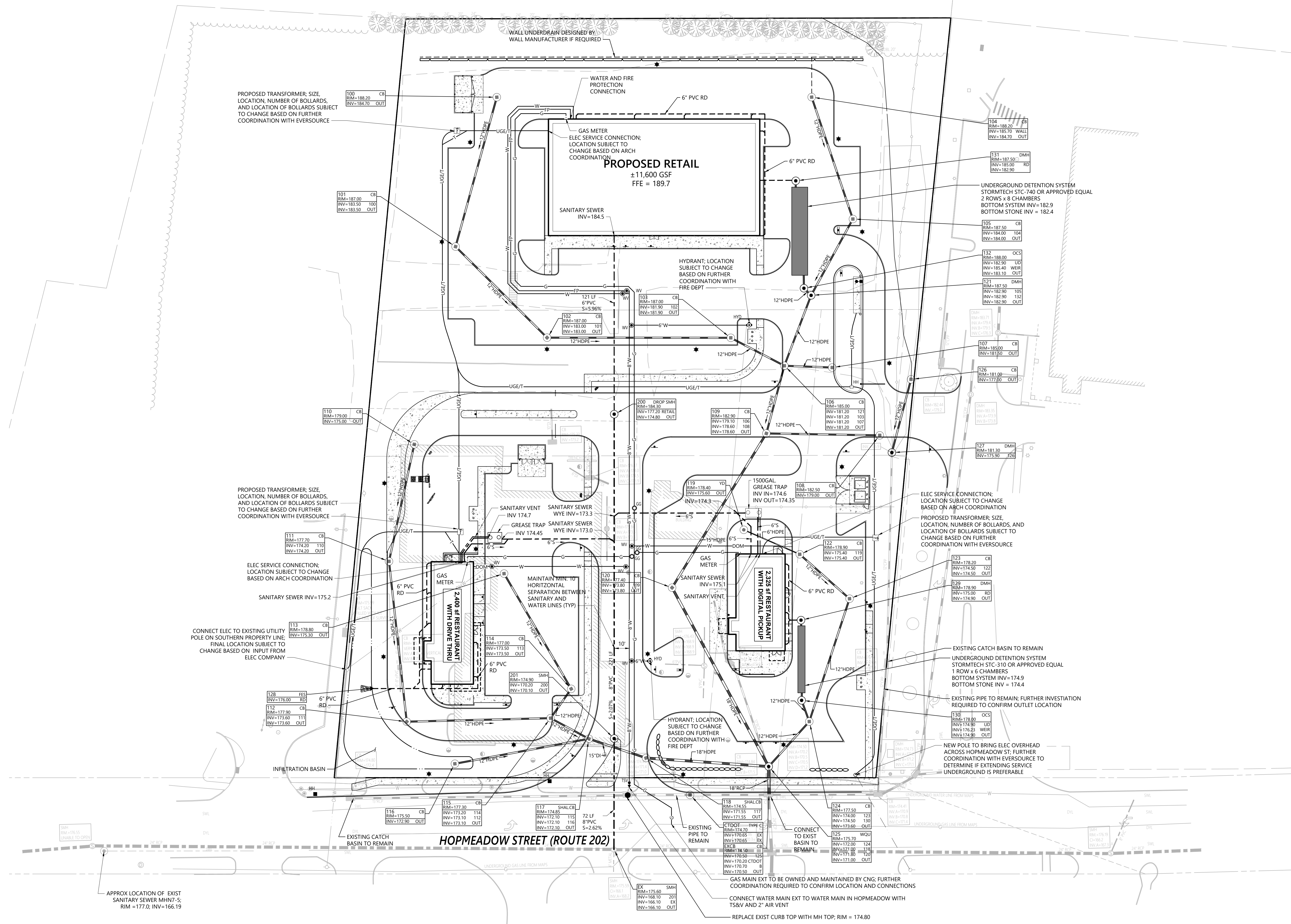
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Grading and Drainage Plan

Project Number
42810.00



C-3



PROPOSED TRANSFORMER; SIZE, LOCATION, NUMBER OF BOLLARDS, AND LOCATION OF BOLLARDS SUBJECT TO CHANGE BASED ON FURTHER COORDINATION WITH EVERSOURCE

PROPOSED TRANSFORMER; SIZE, LOCATION, NUMBER OF BOLLARDS, AND LOCATION OF BOLLARDS SUBJECT TO CHANGE BASED ON FURTHER COORDINATION WITH EVERSOURCE

ELEC SERVICE CONNECTION; LOCATION SUBJECT TO CHANGE BASED ON ARCH COORDINATION

CONNECT ELEC TO EXISTING UTILITY POLE ON SOUTHERN PROPERTY LINE; FINAL LOCATION SUBJECT TO CHANGE BASED ON INPUT FROM ELEC COMPANY

APPROX LOCATION OF EXIST SANITARY SEWER MHN7-5; RIM = 177.0; INV = 166.19

WALL UNDERDRAIN DESIGNED BY WALL MANUFACTURER IF REQUIRED

WATER AND FIRE PROTECTION CONNECTION

GAS METER ELEC SERVICE CONNECTION; LOCATION SUBJECT TO CHANGE BASED ON ARCH COORDINATION

PROPOSED RETAIL
±11,600 GSF
FFE = 189.7

SANITARY SEWER INV=184.5

HYDRANT; LOCATION SUBJECT TO CHANGE BASED ON FURTHER COORDINATION WITH FIRE DEPT

121 LF 6" PVC S=5.96%

102 RIM=187.00 INV=183.00 101 INV=183.00 OUT

103 RIM=187.00 INV=181.90 102 INV=181.90 OUT

104 RIM=188.20 INV=185.70 WALL INV=184.70 OUT

105 RIM=187.50 INV=184.00 104 INV=184.00 OUT

106 RIM=185.00 INV=181.20 105 INV=181.20 OUT

107 RIM=185.00 INV=182.90 106 INV=182.90 OUT

108 RIM=182.90 INV=179.10 107 INV=179.10 OUT

109 RIM=182.90 INV=178.60 108 INV=178.60 OUT

110 RIM=179.00 INV=175.00 OUT

111 RIM=177.20 INV=174.20 110 INV=174.20 OUT

112 RIM=177.90 INV=173.60 111 INV=173.60 OUT

113 RIM=178.80 INV=173.30 OUT

114 RIM=177.00 INV=173.50 113 INV=173.50 OUT

115 RIM=173.20 INV=173.10 114 INV=173.10 OUT

116 RIM=173.10 INV=172.10 115 INV=172.10 OUT

117 SHAL CB RIM=174.85 INV=172.10 116 INV=172.10 OUT

118 SHAL CB RIM=174.55 INV=171.55 117 INV=171.55 OUT

119 SHAL CB RIM=174.55 INV=171.55 118 INV=171.55 OUT

120 SHAL CB RIM=174.55 INV=171.55 119 INV=171.55 OUT

121 SHAL CB RIM=174.55 INV=171.55 120 INV=171.55 OUT

122 SHAL CB RIM=174.55 INV=171.55 121 INV=171.55 OUT

123 SHAL CB RIM=174.55 INV=171.55 122 INV=171.55 OUT

124 SHAL CB RIM=174.55 INV=171.55 123 INV=171.55 OUT

125 SHAL CB RIM=174.55 INV=171.55 124 INV=171.55 OUT

126 SHAL CB RIM=174.55 INV=171.55 125 INV=171.55 OUT

UNDERGROUND DETENTION SYSTEM STORMTECH STC-740 OR APPROVED EQUAL 2 ROWS x 8 CHAMBERS BOTTOM SYSTEM INV=182.9 BOTTOM STONE INV = 182.4

ELEC SERVICE CONNECTION; LOCATION SUBJECT TO CHANGE BASED ON ARCH COORDINATION

PROPOSED TRANSFORMER; SIZE, LOCATION, NUMBER OF BOLLARDS, AND LOCATION OF BOLLARDS SUBJECT TO CHANGE BASED ON FURTHER COORDINATION WITH EVERSOURCE

EXISTING CATCH BASIN TO REMAIN UNDERGROUND DETENTION SYSTEM STORMTECH STC-310 OR APPROVED EQUAL 1 ROW x 6 CHAMBERS BOTTOM SYSTEM INV = 174.9 BOTTOM STONE INV = 174.4

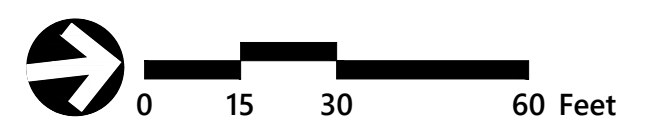
EXISTING PIPE TO REMAIN; FURTHER INVESTIGATION REQUIRED TO CONFIRM OUTLET LOCATION

NEW POLE TO BRING ELEC OVERHEAD ACROSS HOPMEADOW ST; FURTHER COORDINATION WITH EVERSOURCE TO DETERMINE IF EXTENDING SERVICE UNDERGROUND IS PREFERABLE

GAS MAIN EXT TO BE OWNED AND MAINTAINED BY CNG; FURTHER COORDINATION REQUIRED TO CONFIRM LOCATION AND CONNECTIONS

CONNECT WATER MAIN EXT TO WATER MAIN IN HOPMEADOW WITH TS&V AND 2" AIR VENT

REPLACE EXIST CURB TOP WITH MH TOP; RIM = 174.80



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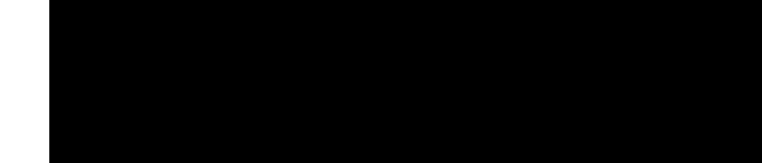
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Drawing Title

Utility Plan

Drawing Number



C-4

Site S&E Narrative:

THE PROPOSED PROJECT CONSISTS OF CONSTRUCTING AN APPROXIMATELY 2,400SF COFFEE SHOP WITH DRIVE THROUGH, 2,325SF FAST FOOD RESTAURANT WITH DRIVE THROUGH AND A 11,500SF RETAIL BUILDING WITH ASSOCIATED PARKING, DRIVEWAYS AND UNDERGROUND UTILITIES. THE APPROXIMATELY 4.5 ACRE SITE WILL BE DEVELOPED IN A SINGLE PHASE PROJECT. TO CONTROL SEDIMENT EROSION DURING EARTH FILLING OPERATIONS, THE CONTRACTOR SHALL EMPLOY TECHNIQUES OUTLINED IN THE CONSTRUCTION SEQUENCE AND EROSION CONTROL NOTES TO ENSURE THAT EROSION DOES NOT OCCUR AND THAT SEDIMENT IS NOT TRANSPORTED OFF. THE EARTHWORK IS PLANNED TO START SUMMER 2024 AND BE COMPLETED SPRING 2025. THE EROSION AND SEDIMENTATION CONTROLS SHALL BE EMPLOYED BY THE CONTRACTOR DURING THE EARTHWORK AND CONSTRUCTION PHASES OF THE PROJECT IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. REFER TO THE DRAINAGE/STORMWATER MANAGEMENT REPORT FOR MORE INFORMATION.

Temporary Erosion and Sedimentation Control Maintenance (throughout construction):

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING EACH CONTROL SHOWN ON THE SEDIMENTATION AND EROSION CONTROL PLAN. THE SITE CONTRACTOR WILL INSPECT ALL SEDIMENT AND EROSION CONTROL STRUCTURES PERIODICALLY AND AFTER EACH RAINFALL EVENT. RECORDS OF THE INSPECTIONS WILL BE PREPARED AND MAINTAINED ON-SITE BY THE CONTRACTOR. SILT SHALL BE REMOVED FROM BEHIND BARRIERS IF GREATER THAN 6-INCHES DEEP OR AS NEEDED. DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION. THE UNDERSIDE OF STRAW BALES SHOULD BE KEPT IN CLOSE CONTACT WITH THE EARTH AND RESET AS NECESSARY. SEDIMENT THAT IS COLLECTED IN STRUCTURES SHALL BE DISPOSED OF PROPERLY AND COVERED IF STORED ON-SITE. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF A RAINFALL EVENT TO DETERMINE THE CONDITIONS OF THE BASIN DURING CONSTRUCTION. CLEAN OUT SEDIMENT BASINS WHEN ACCUMULATION REACHES 12" SEDIMENT LEVELS SHALL BE MARKED WITHIN THE SEDIMENT STORAGE AREA BY STAKES. DO NOT ALLOW ACCUMULATED SEDIMENTS TO FLUSH INTO WETLAND AREAS. EROSION CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN SECURELY STABILIZED. AFTER REMOVAL OF STRUCTURES, DISTURBED AREAS SHALL BE REGRADED AND STABILIZED AS SOON AS PRACTICAL.

MAINTAIN THE CONSTRUCTION ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENTS ONTO PAVED SURFACES.

Construction Sequence:

1. THE SITE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT ROADS/HIGHWAYS AND THEIR DRAINAGE SYSTEM, NEIGHBORING PROPERTIES, AND REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT. PRIOR TO CONSTRUCTION, THE APPLICANT SHALL PROVIDE THE TOWN OF SIMSBURY WITH THE NAME OF CONTACT AND 24 HOUR CONTACT INFORMATION.
2. CONTRACTOR SHALL ADHERE TO CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
3. FLAG THE LIMITS OF CONSTRUCTION NECESSARY TO FACILITATE THE PRECONSTRUCTION MEETING.
4. HOLD PRECONSTRUCTION MEETING. (REMEMBER TO CALL BEFORE YOU DIG 1-800-922-4455).
5. NOTIFY THE TOWN OF SIMSBURY AGENT, ZONING ENFORCEMENT OFFICER AND ENGINEERING DEPARTMENT, 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
6. INSTALL STABILIZED VEHICLE CONSTRUCTION ENTRANCE/EXIT.
7. PRIOR TO INSTALLING SURFACE WATER CONTROLS SUCH AS TEMPORARY DIVERSION SWALES, INSPECT EXISTING CONDITIONS TO ENSURE DISCHARGE LOCATIONS ARE STABLE. IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING SURFACE WATER CONTROLS.
8. INSTALL EROSION AND SEDIMENT CONTROLS IN ACCORDANCE WITH THE E&S PLAN FOR THE SITE INCLUDING SILT FENCE BARRIERS AND SILT SACKS. COMPLETE CLEARING AND GRUBBING.
9. COMPLETE CLEARING AND GRUBBING.
10. ESTABLISH ROUGH GRADE ON THE SITE.
11. CONSTRUCT BUILDING AND UNDERGROUND UTILITIES. INSTALL SILT SACK SEDIMENT TRAPS IN ALL NEW AND EXISTING CATCH BASINS WITHIN THE SITE AREA AND VICINITY.
12. INSTALL PAVEMENT BASE & FIRST COURSE OF BITUMINOUS CONCRETE.
13. INSTALL LANDSCAPING & LOAM AND SEED ALL DISTURBED AREAS.
14. AFTER SITE IS STABILIZED REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS.
15. LOAM AND SEED ALL DISTURBED AREAS.
16. WHEN ALL OTHER WORK HAS BEEN COMPLETED, REPAIR AND SWEEP ALL PAVED AREAS FOR THE FINAL COURSE OF PAVING. INSPECT THE DRAINAGE SYSTEM AND CLEAN AS NEEDED.
17. INSTALL FINAL COURSE OF PAVEMENT.

Erosion and Sedimentation Control Techniques:

THE FOLLOWING EROSION AND SEDIMENTATION CONTROLS SHALL BE EMPLOYED BY THE CONTRACTOR DURING THE EARTHWORK AND CONSTRUCTION PHASES OF THE PROJECT IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

SILT FENCING
IN AREAS WHERE HIGH RUNOFF VELOCITIES OR HIGH SEDIMENT LOADS ARE EXPECTED, STRAW BALE BARRIERS WILL BE BACKED UP WITH SILT FENCING. THIS SEMI-PERMEABLE BARRIER MADE OF A SYNTHETIC POROUS FABRIC WILL PROVIDE ADDITIONAL PROTECTION. THE SILT FENCES AND STRAW BALE BARRIER WILL BE REPLACED AS DETERMINED BY PERIODIC FIELD INSPECTIONS.

CATCH BASIN PROTECTION
NEWLY CONSTRUCTED AND EXISTING CATCH BASINS WILL BE PROTECTED WITH SILT SACKS THROUGHOUT CONSTRUCTION.

GRAVEL AND CONSTRUCTION ENTRANCE/EXIT
A TEMPORARY CRUSHED-STONE CONSTRUCTION ENTRANCE/EXIT WILL BE CONSTRUCTED. A CROSS SLOPE WILL BE PLACED IN THE ENTRANCE TO DIRECT RUNOFF TO THE SEDIMENT TRAP.

VEGETATIVE SLOPE STABILIZATION
STABILIZATION OF OPEN SOIL SURFACES WILL BE IMPLEMENTED WITHIN 14 DAYS AFTER GRADING OR CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, UNLESS THERE IS SUFFICIENT SNOW COVER TO PROHIBIT IMPLEMENTATION. VEGETATIVE SLOPE STABILIZATION WILL BE USED TO MINIMIZE EROSION ON SLOPES OF 3:1 OR FLATTER. ANNUAL GRASSES, SUCH AS ANNUAL RYE, WILL BE USED TO ENSURE RAPID GERMINATION AND PRODUCTION OF ROOTMASS. PERMANENT STABILIZATION WILL BE COMPLETED WITH THE PLANTING OF PERENNIAL GRASSES OR LEGUMES. ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER MAY BE ESTABLISHED BY HYDRO-SEEDING OR SOODING. A SUITABLE TOPSOIL, GOOD SEEDBED PREPARATION, AND ADEQUATE LIME, FERTILIZER AND WATER WILL BE PROVIDED FOR EFFECTIVE ESTABLISHMENT OF THESE VEGETATIVE STABILIZATION METHODS. MULCH WILL ALSO BE USED AFTER PERMANENT SEEDING TO PROTECT SOIL FROM THE IMPACT OF FALLING RAIN AND TO INCREASE THE CAPACITY OF THE SOIL TO ABSORB WATER.

STOCKPILE MANAGEMENT
SIDESLOPES OF STOCKPILED MATERIAL SHALL BE NO STEEPER THAN 2:1. STOCKPILES NOT USED WITHIN 30 DAYS NEED TO BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE. HAYBALES AND SILT FENCE ARE TO BE PLACED AROUND THE STOCKPILE AREA APPROXIMATELY 10 FEET FROM THE TOW OF SLOPE.

SEED MIX TO BE INTEGRALLY MIXED INTO COMPOST-MULCH SLURRY SHALL BE THE "NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES" BY NEW ENGLAND WETLAND PLANTS, AMHERST, MA OR EQUAL. SEED SHALL BE APPLIED WITHIN THE SLURRY AT THE SUPPLIER'S RECOMMENDED SEEDING RATE OF 35 LBS. PER ACRE. IN ADDITION, A NURSE SEED CONSISTING OF ANNUAL RYEGRASS SHALL ALSO BE APPLIED WITHIN THE SLURRY AT A SEEDING RATE OF 15 LBS. PER ACRE. SPECIES TO BE INCLUDED IN THE SPECIFIED NATIVE WETLAND MIX WILL INCLUDE:

SWITCHGRASS (PANICUM VIRGATUM), VIRGINIA WILD RYE (ELYMUS VIRGINICUS), CREEPING RED FESCUE (FESTUCA RUBRA), FOX SEED (CAREX VULPINOIDEA), CREEPING BENTGRASS (AGROSTIS STOLONIFERA), SOFT RUSH (JUNCUS EFFUSUS), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), GRASS-LEAVED GOLDENROD (ULTRAHIA GRAMMIFOLIA), NODDING BURN WING (BIDENS CERNUA), GREEN BURNING SCRIP (ATROVIRENS), JOE-PYE WEEED (EUPATORIUM MACULATUM), BONESET (EUPATORIUM PERFOLIATUM), BLUE VERVAIN (VERBENA HASTATA). PRIOR TO SEED/COMPOST-MULCH APPLICATION, ENTIRE SURFACE OF DISTURBED AREA TO BE SEEDED SHALL BE SCARIFIED (ROUGHENED OR "RAKED") TO A DEPTH OF 1/2 INCH TO FOSTER STRONG SEED-SOIL BOND. SOIL SCARIFICATION WILL ONLY AUGMENT THE HIGH LEVEL OF SEED/GROWTH MEDIA BOND ACHIEVED BY INTEGRAL APPLICATION OF SEED WITHIN COMPOST-MULCH MATERIAL.

COMPOST-MULCH IS HIGHLY FERTILE GROWTH MEDIUM WITH A PH IN THE 6.0-7.0 RANGE THAT WILL REQUIRE NO ADDITIONAL SOIL AMENDMENTS SUCH AS LIME OR FERTILIZER. SPECIFICATIONS FOR TEMPORARY AND PERMANENT SEEDING MIXTURES, RATES, DATES, AND SOIL PREPARATION MEASURES HAVE BEEN ADDED TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN.

DUST CONTROL
PERIODICALLY MOISTEN EXPOSED SURFACES ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAY DAMP AND REDUCE DUST.

Post Construction Stormwater Management:

THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ENSURING THAT STORMWATER MANAGEMENT SYSTEMS BE INSPECTED AND MAINTAINED. THE FOLLOWING PLAN COMPONENTS SHALL BE ADHERED TO:

SOURCE CONTROL
A COMPREHENSIVE SOURCE CONTROL PROGRAM WILL BE IMPLEMENTED AT THE SITE, WHICH INCLUDES REGULAR PAVEMENT SWEEPING AT A MINIMUM 2 TIMES PER YEAR, CATCH BASIN CLEANING, AND MAINTENANCE AND CLEARING OF LITTER FROM PARKING AREAS AND PERIMETER LANDSCAPED AREAS. CLEAN ALL CATCH BASINS AND STRUCTURES TWICE ANNUALLY TO REMOVE ACCUMULATED SAND, SEDIMENT, AND FLOATABLE PRODUCTS OR AS NEEDED BASED ON USE.

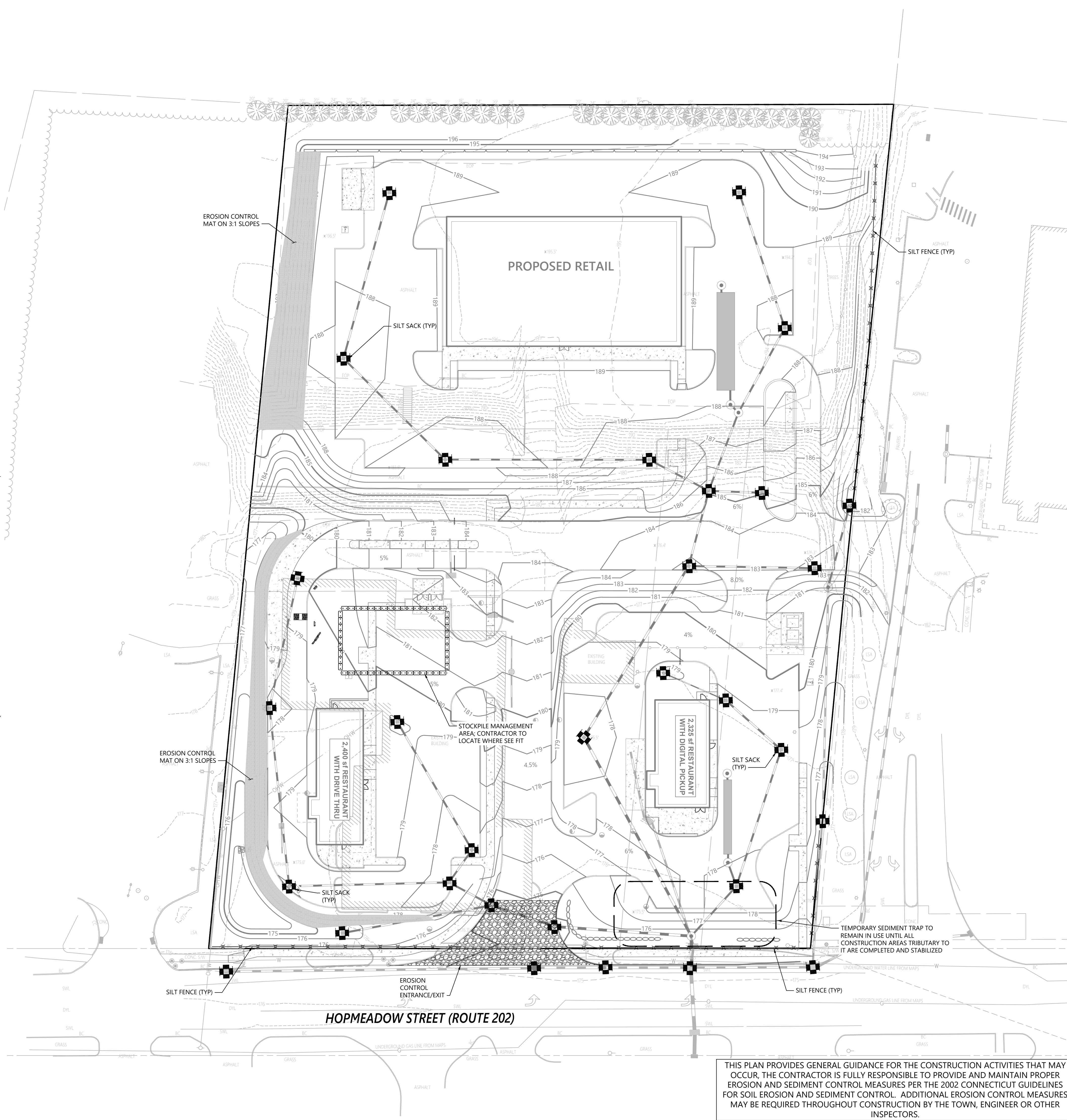
SNOW SHELF
INSPECT SNOW SHELVES ONCE ANNUALLY, IN THE SPRING, FOR ACCUMULATED SEDIMENT. NECESSARY SEDIMENT REMOVAL, EARTH REPAIR, AND/OR RESEEDING WILL BE PERFORMED IMMEDIATELY UPON IDENTIFICATION.

DEEP SLUMP CATCH BASINS
CATCH BASINS AT THE SITE ARE TO BE CONSTRUCTED WITH SLUMPS (MINIMUM 4-FEET) TO TRAP DEBRIS AND SEDIMENTS. CATCH BASINS WILL BE CLEANED TWICE PER YEAR.

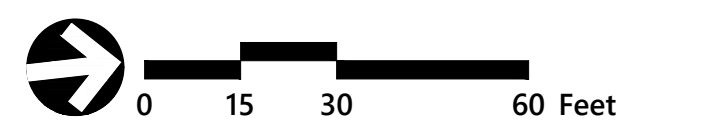
RAIN GARDEN
AN ABOVE GROUND RAIN GARDEN (INFILTRATION BASIN) WILL BE CONSTRUCTED TO COLLECT AND INFILTRATE STORMWATER RUNOFF. THE BASIN WILL BE INSPECTED TWICE ANNUALLY AND ACCUMULATED SEDIMENT WILL BE REMOVED. VEGETATION WITHIN THE BASIN WILL BE MAINTAINED ON A REGULAR BASIS.

HYDRODYNAMIC SEPARATOR WATER QUALITY UNIT
A HYDRODYNAMIC SEPARATOR WATER QUALITY UNIT WILL BE USED TO TREAT STORMWATER BEFORE IT REACHES THE DISCHARGE POINT. THIS ALLOWS SUSPENDED SEDIMENTS TO BE REMOVED AND REDUCES SEDIMENTATION ACCUMULATION. INSPECT THE WATER QUALITY UNIT FOR ACCUMULATED SEDIMENT AND DEBRIS. NECESSARY SEDIMENT AND/OR DEBRIS REMOVAL WILL BE PERFORMED IMMEDIATELY UPON IDENTIFICATION.

ALL E&S CONTROL MEASURES WILL BE INSPECTED WEEKLY AND AFTER RAINFALL OF 0.5 INCHES IN 24 HOURS.



100 Great Meadow Road
Suite 200
Wethersfield, CT 06109
860.807.4300



Proposed Commercial Development
1263 Hopmeadow Street
Simsbury, Connecticut

No.	Revision	Date	Apprv.
1	TOWN/STATE/TENANT COMMENTS	8/23/2023	

Designed by: _____ Checked by: _____
Issued for: _____ Date: _____

Local Approvals May 26, 2023

Drawing Title
Erosion and Sediment Control Plan
Drawing Number

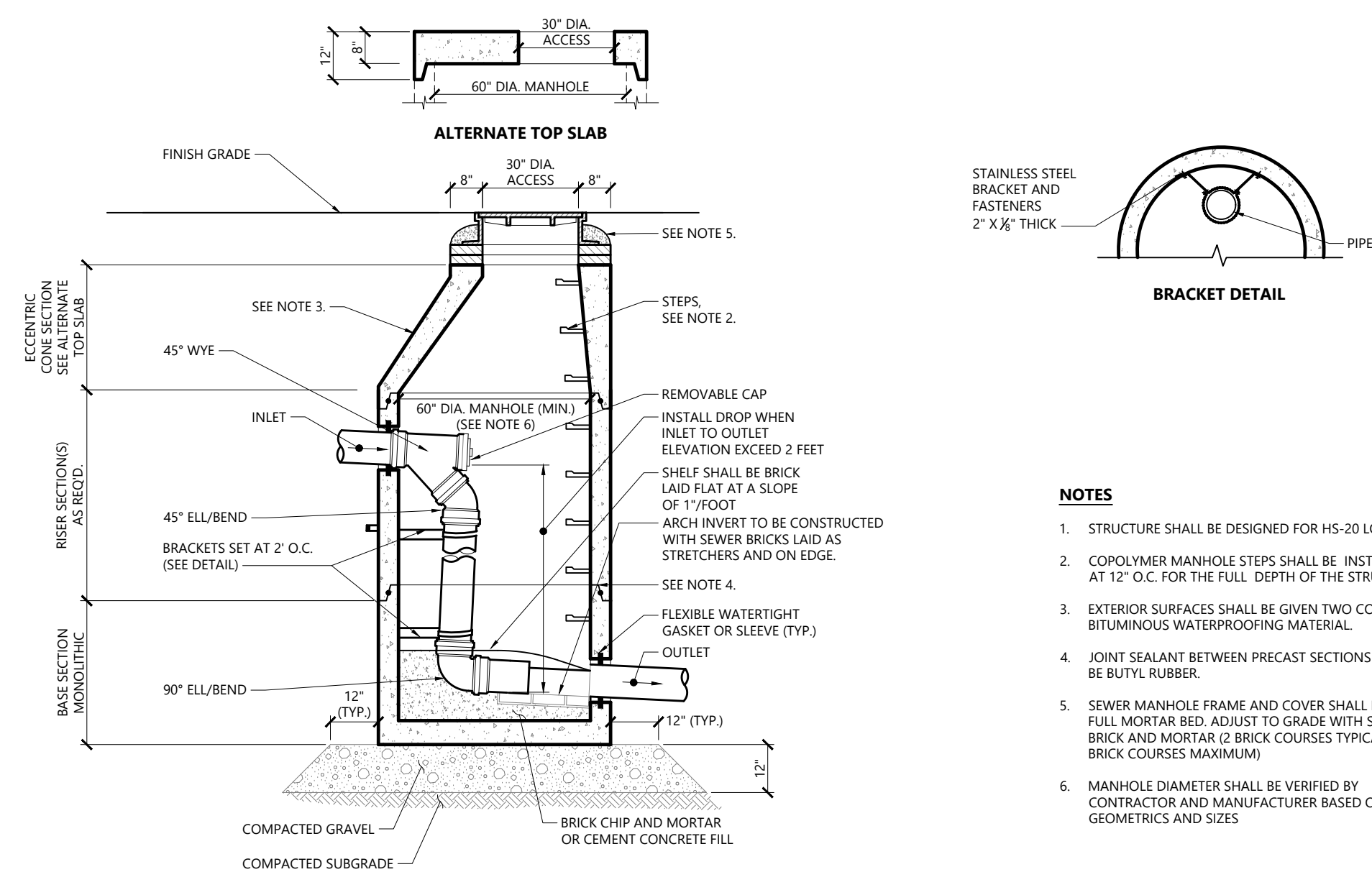
C-5

Project Number
42810.00

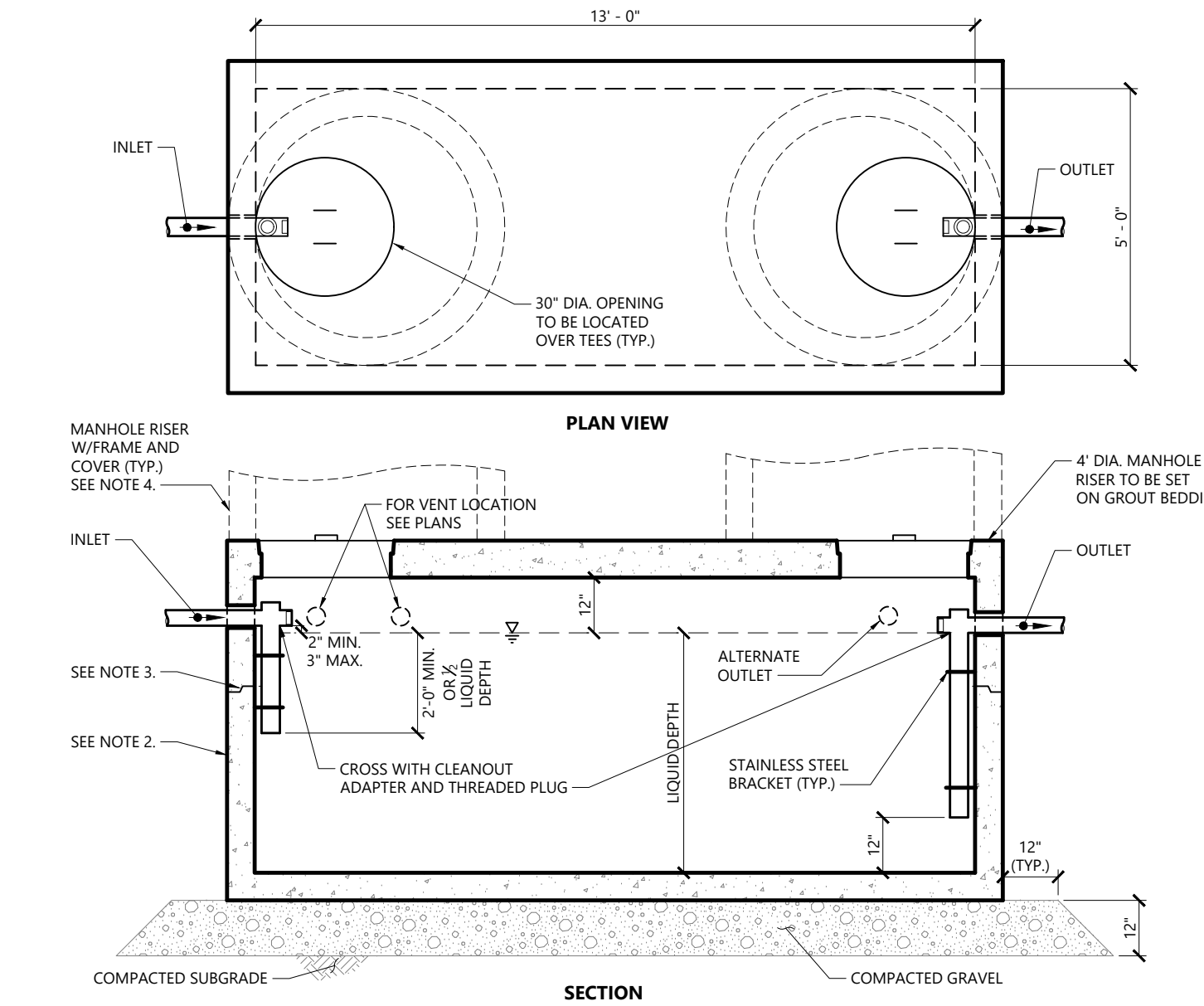
THIS PLAN PROVIDES GENERAL GUIDANCE FOR THE CONSTRUCTION ACTIVITIES THAT MAY OCCUR, THE CONTRACTOR IS FULLY RESPONSIBLE TO PROVIDE AND MAINTAIN PROPER EROSION AND SEDIMENT CONTROL MEASURES PER THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED THROUGHOUT CONSTRUCTION BY THE TOWN, ENGINEER OR OTHER INSPECTORS.



100 Great Meadow Road
Suite 200
Wethersfield, CT 06109
860.807.4300



Interior Drop Sewer Manhole (SMH) 1/16
N.T.S. Source: VHB LD_205

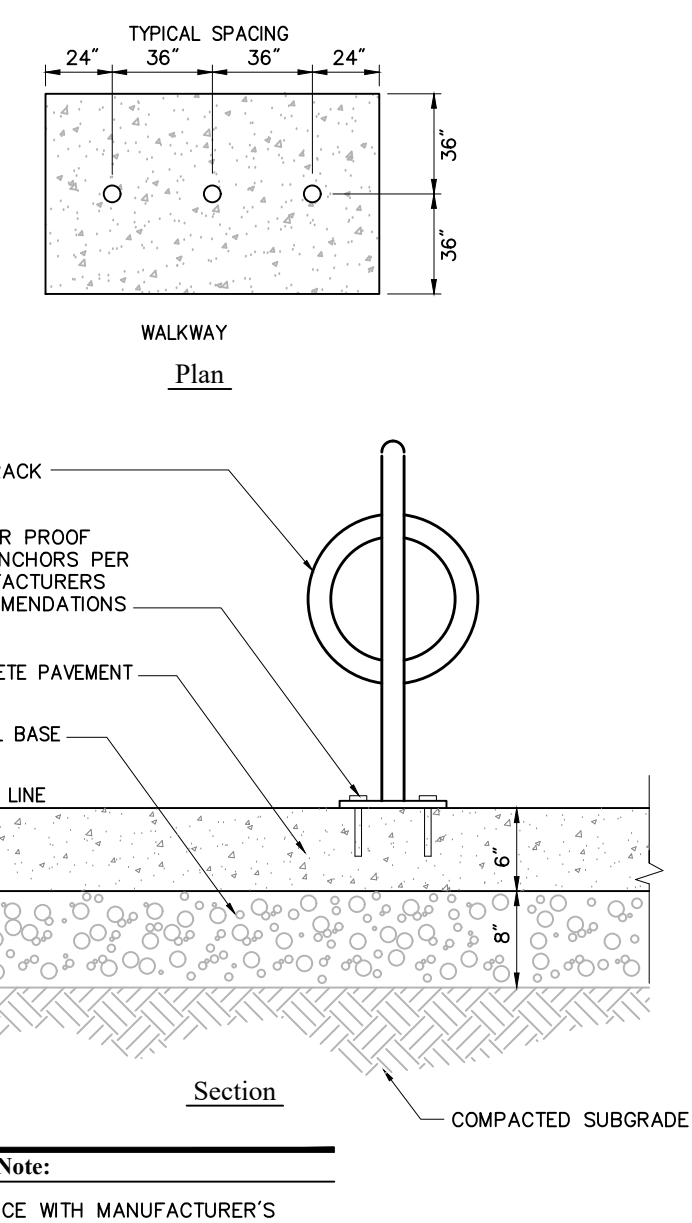


GREASE TRAP	
SIZE (GAL)	LIQUID DEPTH
2,000	4'-4"
2,500	5'-4"
3,000	6'-5"
3,500	7'-6"

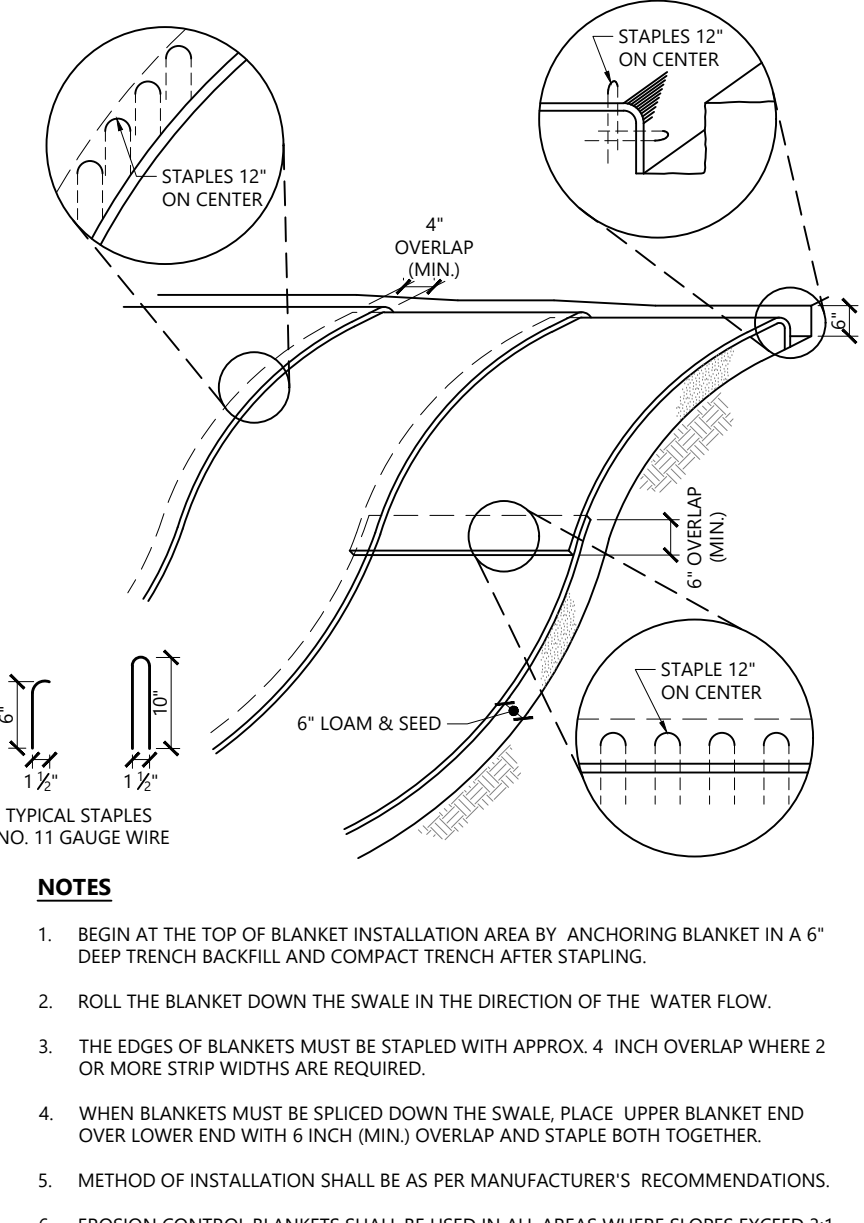
For Reference Only
GREASE TRAPS TO BE SIZED BY OR IN COORDINATION WITH MEP ENGINEER

- NOTES**
- STRUCTURE SHALL BE DESIGNED FOR HS-20 LOADING.
 - EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATER-PROOFING MATERIAL.
 - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PERFORMED BUTYL RUBBER.
 - STANDARD 30-INCH SEWER MANHOLE FRAME AND COVER SHALL BE LOCATED OVER CROSSES AND SET IN FULL MORTAR BED. ADJUST TO GRADE WITH SEWER BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).
 - PIPING SHALL BE SCH 40 PVC WITH SOLVENT WELDED JOINTS. INTERNAL PIPE DIAMETER SHALL BE SAME SIZE AS OUTLET PIPE.
 - FINAL DESIGN OF GREASE TRAP TO BE BY PLUMBING ENGINEER.
 - THE INSTALLATION OF GREASE TRAP, THE PIPING TO AND 10 FEET BEYOND IS BY PLUMBER.

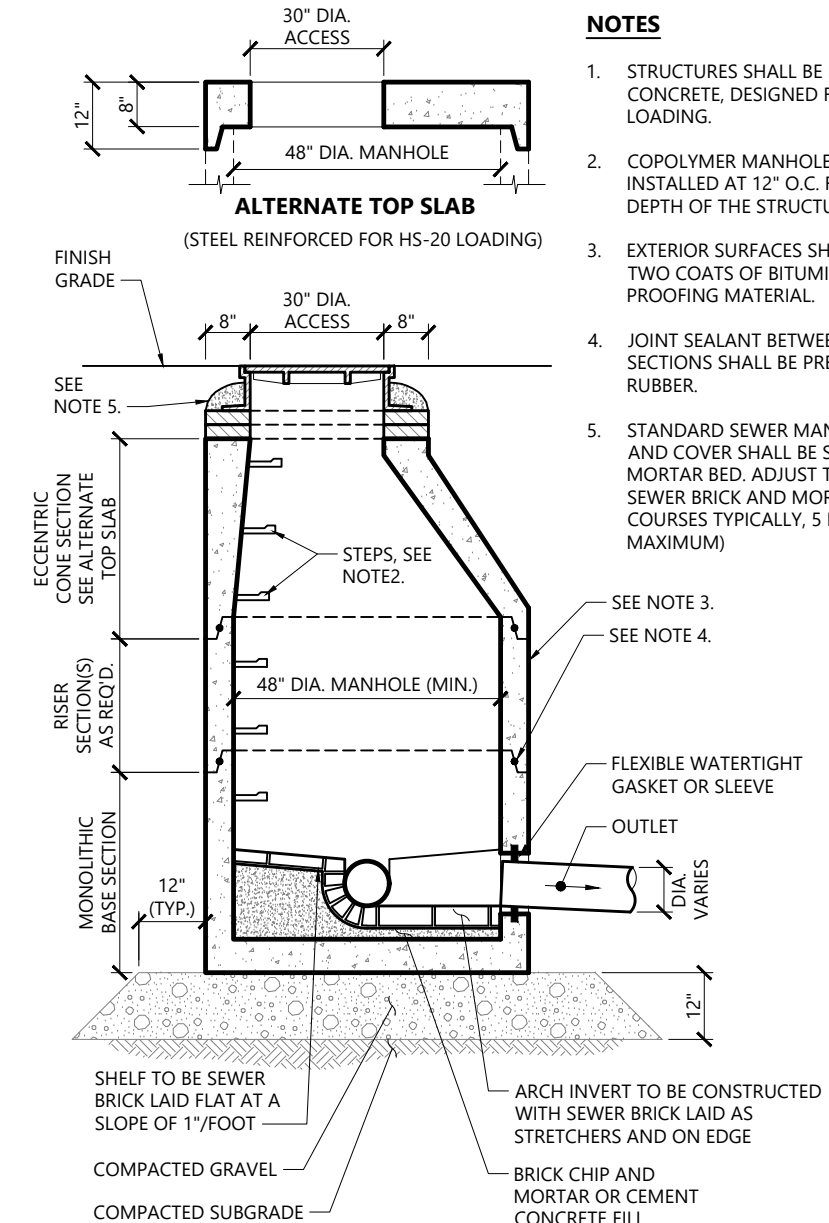
Precast Concrete Grease Trap (GT) 12/19
N.T.S. Source: VHB REV LD_210



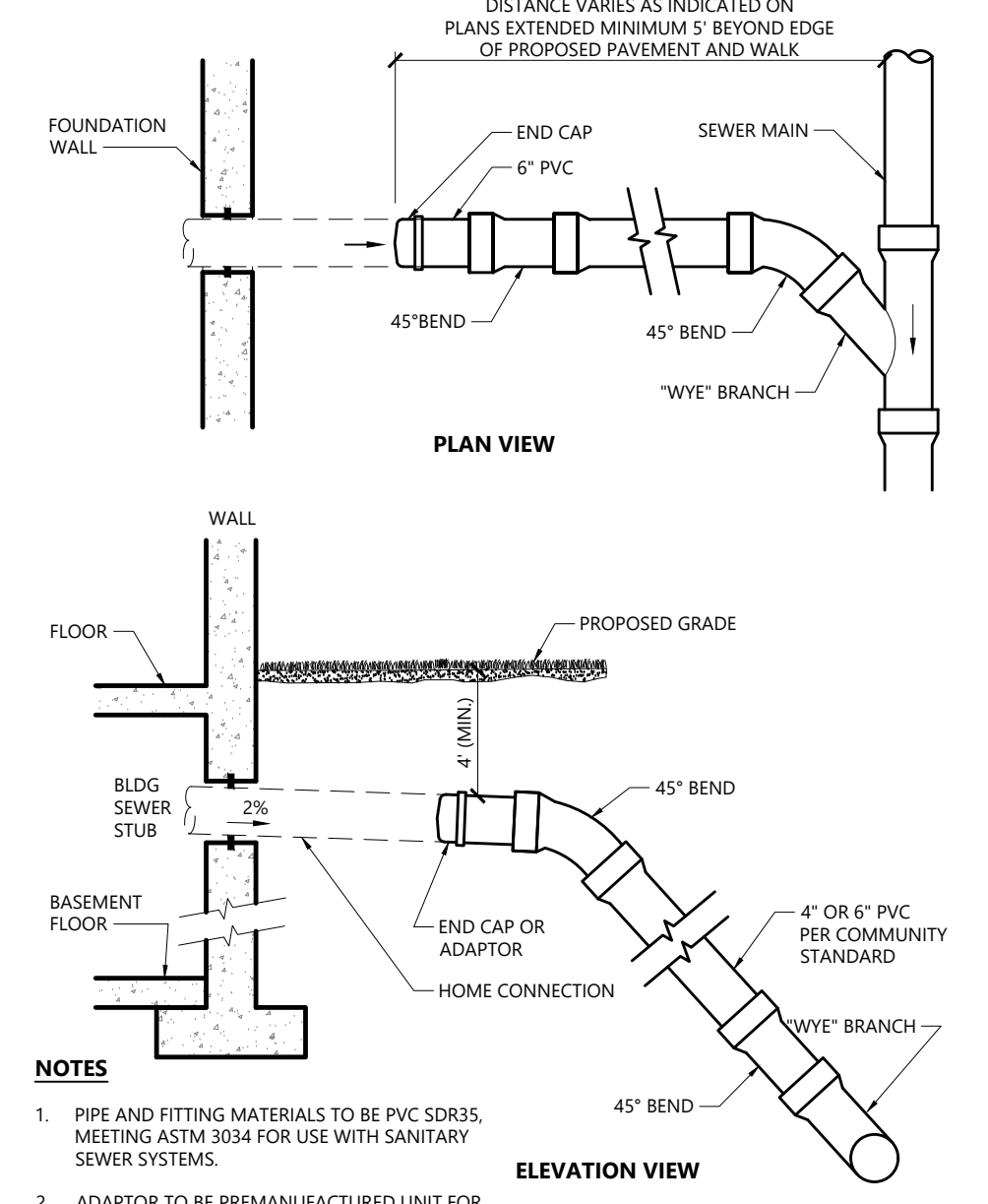
Bicycle Rack - Surface Mount 1/16
N.T.S. Source: VHB LD_205



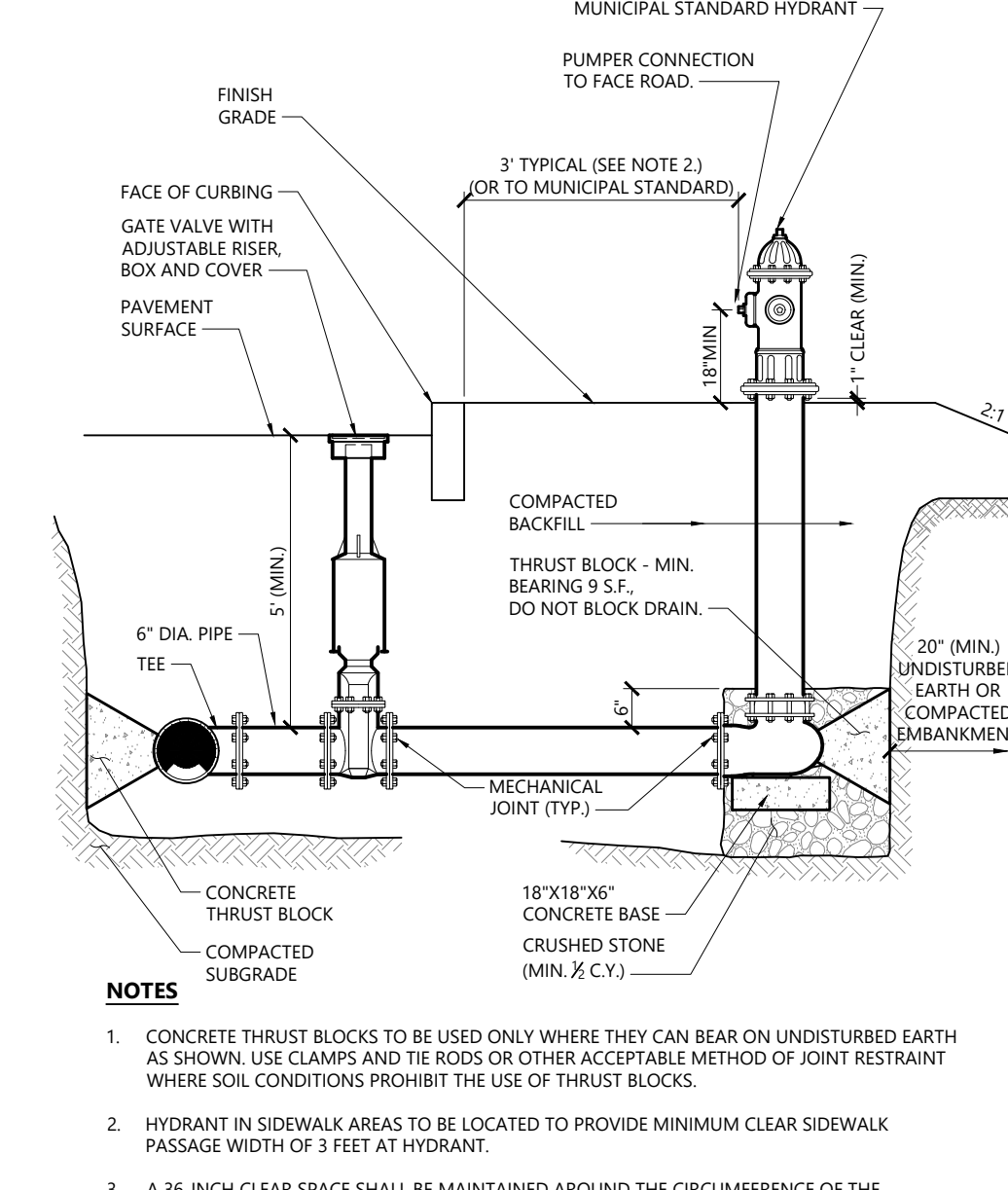
Erosion Control Blanket Slope Installation 10/20
N.T.S. Source: VHB LD_680



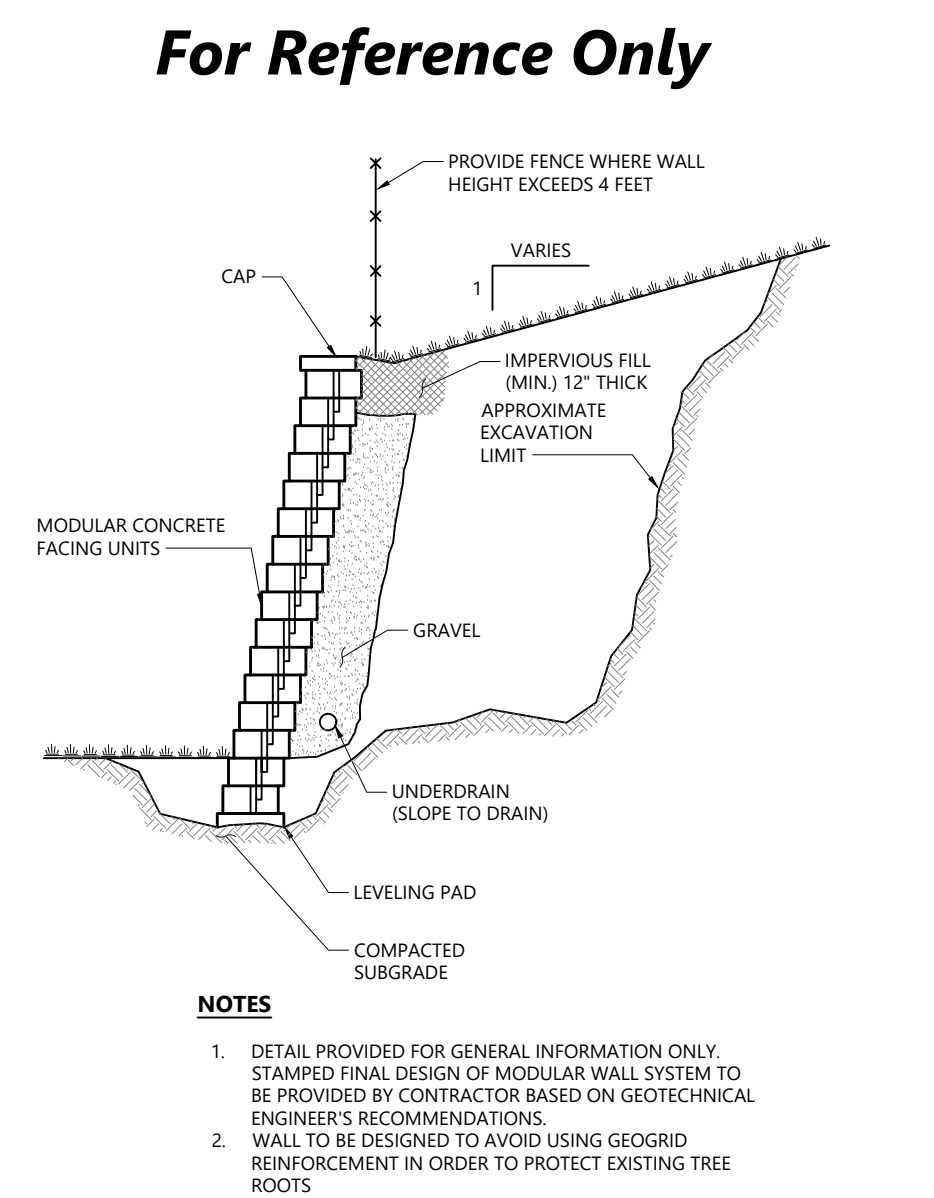
Sanitary Sewer Manhole (SMH) 1/16
N.T.S. Source: VHB LD_200



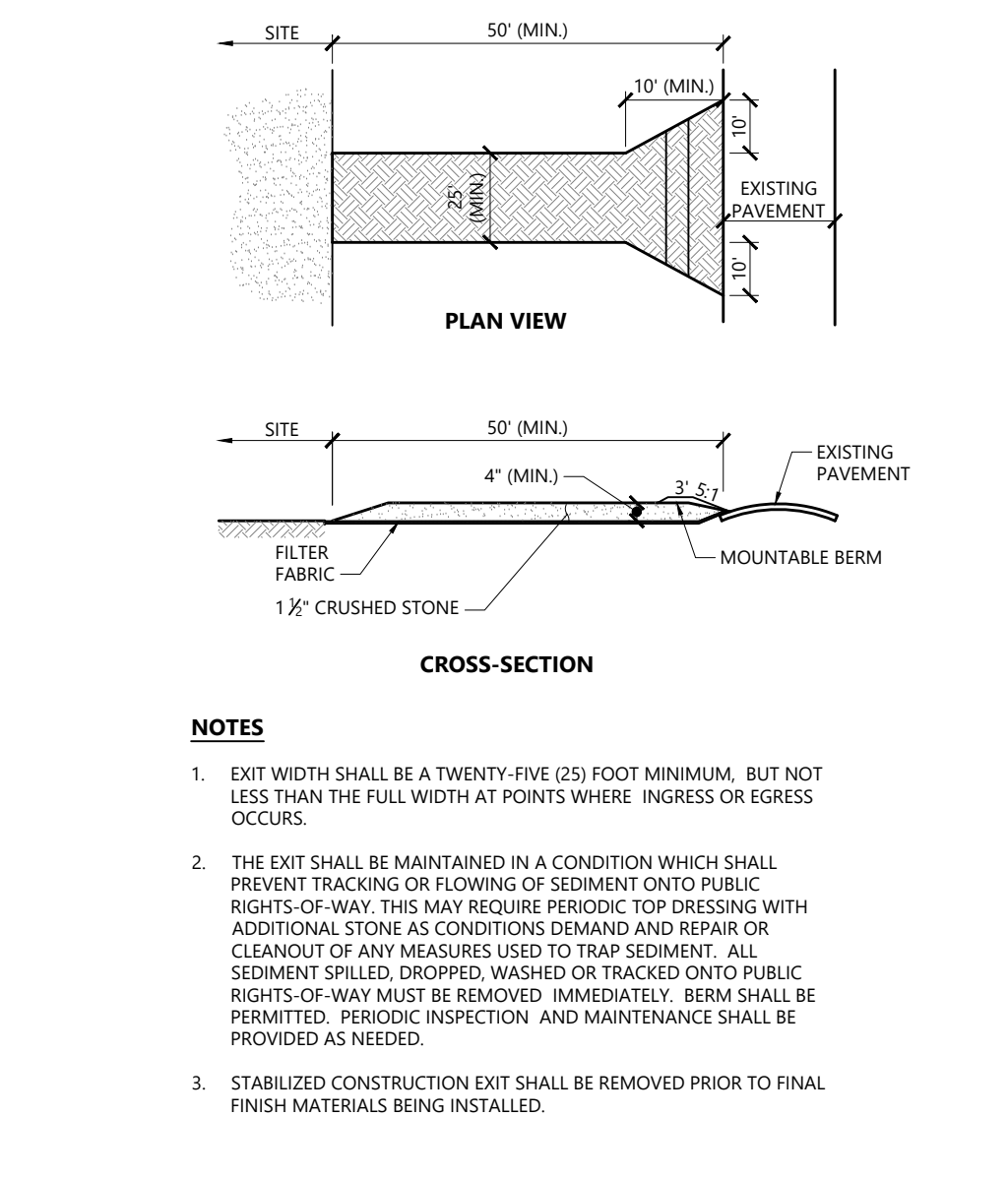
Typical Wye and Chimney Detail 1/16
N.T.S. Source: VHB REV LD_222



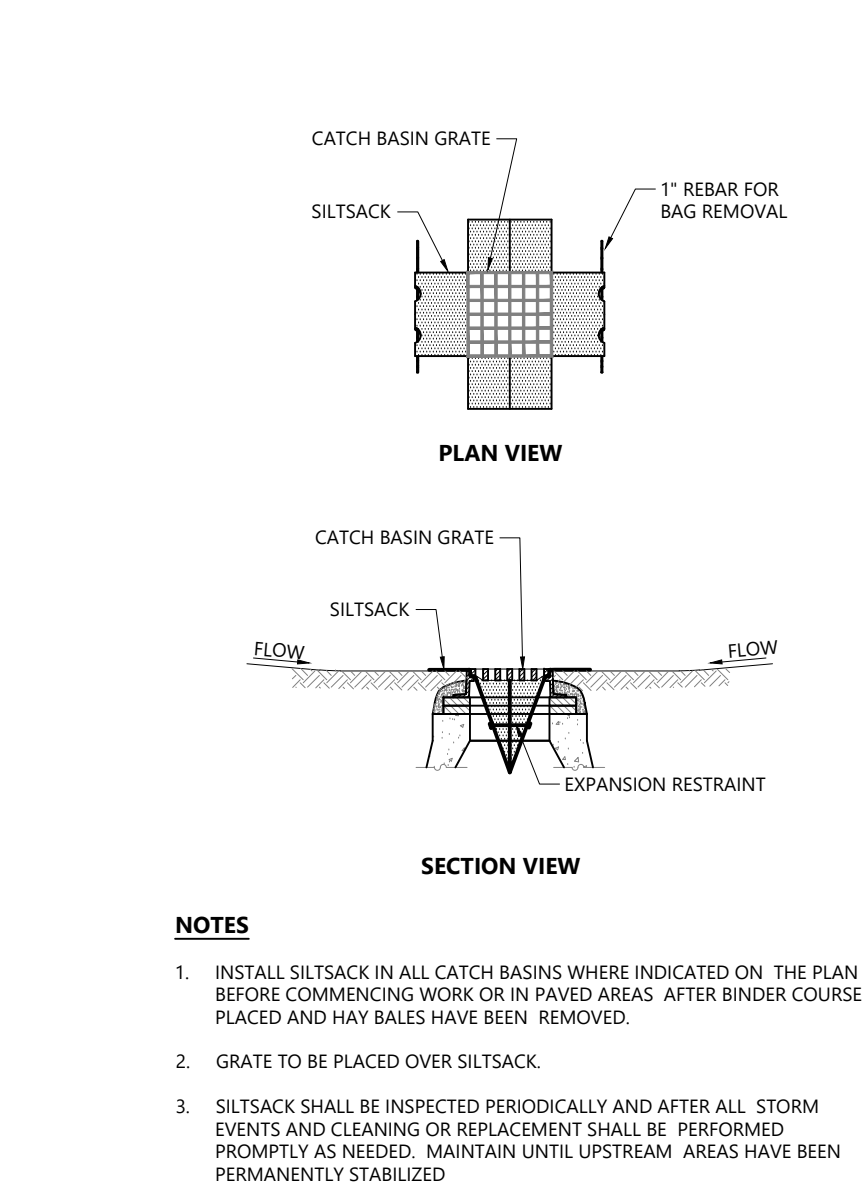
Hydrant Construction 12/19
N.T.S. Source: VHB LD_250



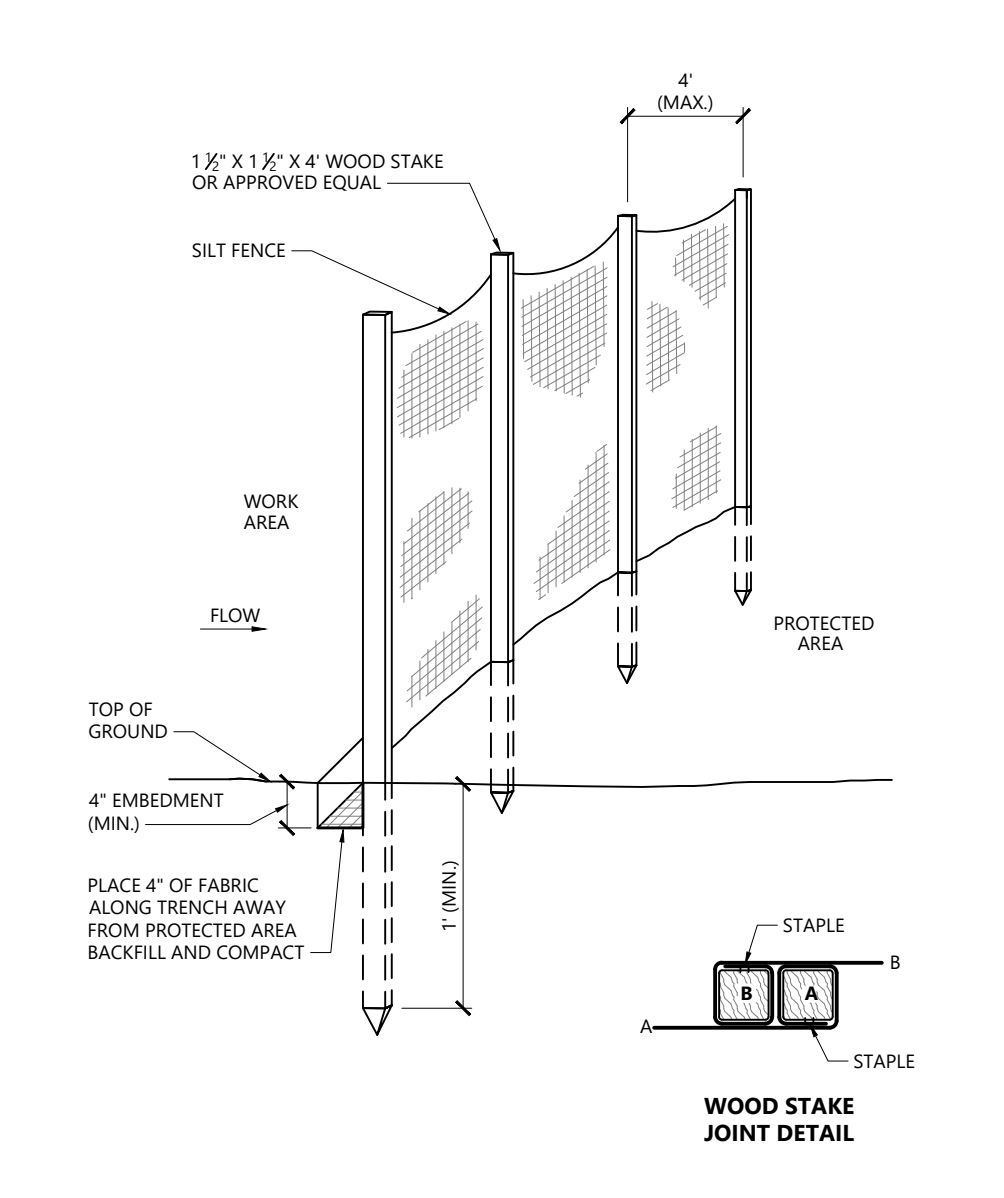
Modular Retaining Wall 10/20
N.T.S. Source: VHB REV LD_750



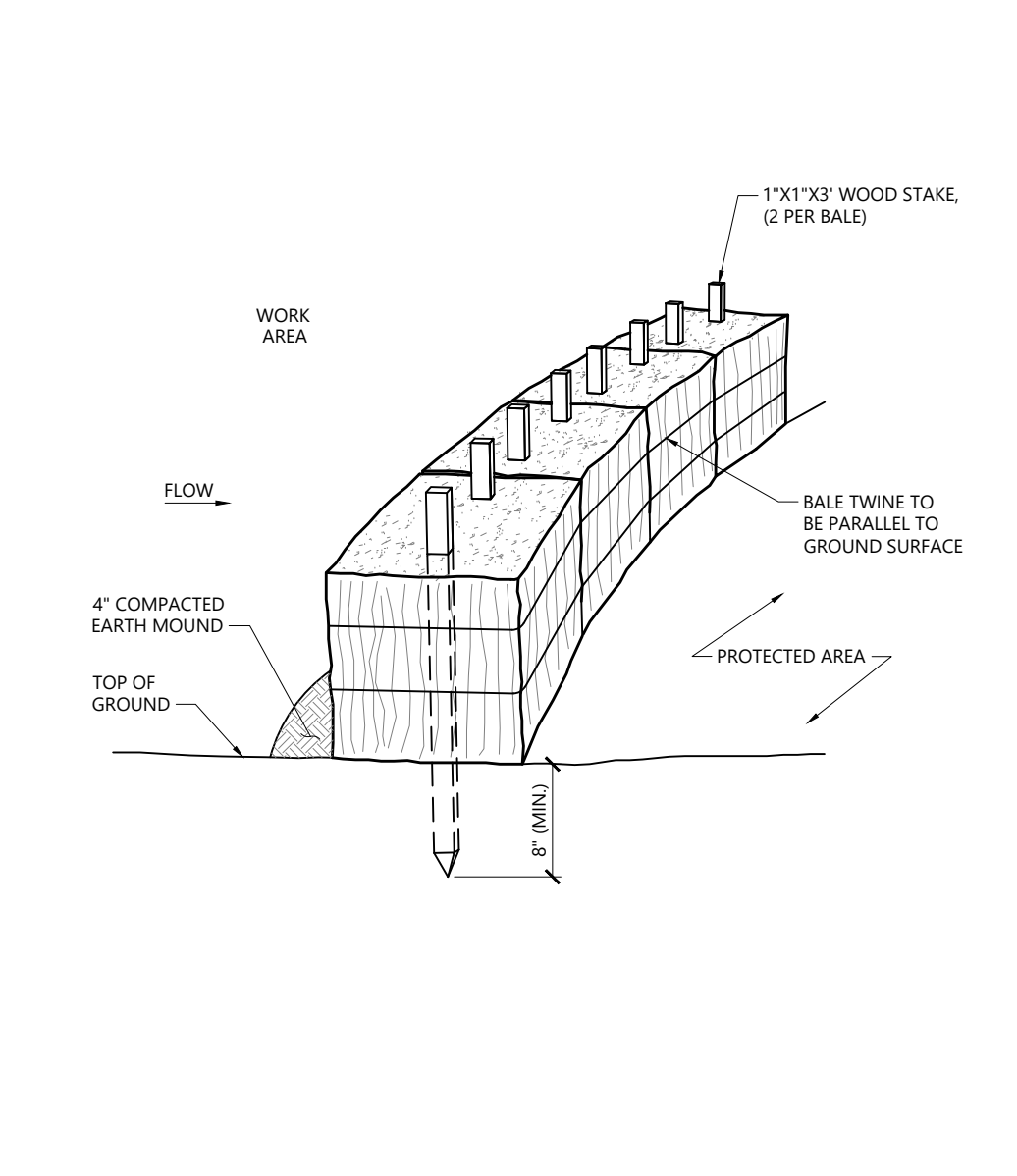
Stabilized Construction Exit 1/16
N.T.S. Source: VHB LD_682



Silt Sack Sediment Trap 1/16
N.T.S. Source: VHB LD_674



Silt Fence Barrier 1/16
N.T.S. Source: VHB LD_650



Straw Bale Barrier 1/16
N.T.S. Source: VHB LD_653

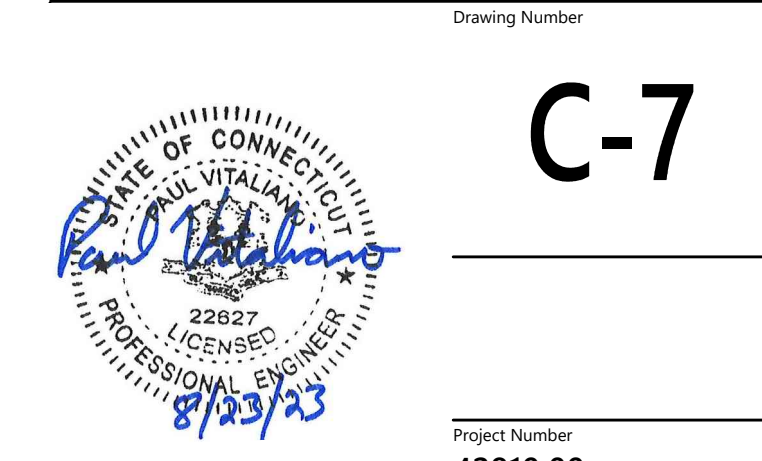
Proposed Commercial Development
1263 Hopmeadow Street
Simsbury, Connecticut

No.	Revision	Date	Apprv.
1	TOWN/STATE/TENANT COMMENTS	8/23/2023	

Designed by _____ Checked by _____
Issued for _____ Date _____

Local Approvals May 26, 2023

Site Details

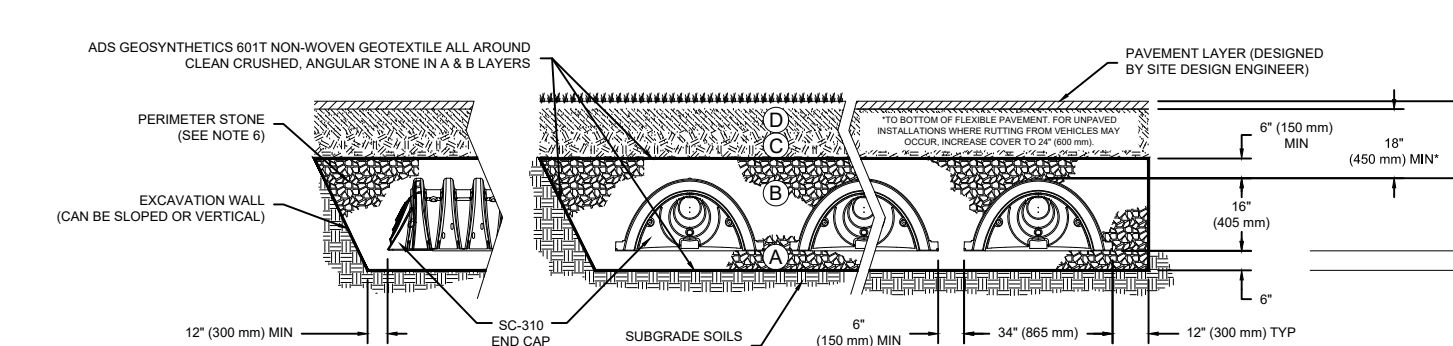


C-7

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FINAL FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF THE FINISHED GRADE OR UNPAVED FINISHED GRADE ABOVE THE PAVEMENT SUBGRADE. MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	NA	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRENGTH MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE TO LAYER 'D' OR 18" ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBGRADE MAY BE PART OF THE 'C' LAYER.	GRANULAR FILL-GRADED SOIL/AGGREGATE MIXTURES - 10% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBGRADE MATERIALS CAN BE USED IN LAYER 'C' OF THIS LAYER.	AASHTO M45 A-1, A-2, A-3 OR AASHTO M47 3, 307, 4, 407, 5, 56, 57, 47, 48, 7, 7B, 8, 9B, 9, 10	BEGIN COMPACTIONS AFTER 12" DEPTH OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 1" (100 mm) MAX LIFTS TO A MIN. 90% PROCTOR DENSITY FOR WELL-GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (9.5) W. DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (9.8) W.
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE TO LAYER 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE.	AASHTO M47 3, 307, 4, 407, 5, 56, 57	NO COMPACTION REQUIRED.
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE.	AASHTO M47 3, 307, 4, 407, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR #4 (AASHTO M47) STONE".
2. STORMTECH CHAMBER SYSTEMS ARE MEET FOR FOUNDATION MATERIALS WHEN PLACED AND COMPACTED IN 1" (100 mm) MAX LIFTS USING TWO FILL CONES/STONES WITH A VIBRATORY COMPACTOR. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTOR EQUIPMENT FOR SPECIAL LOAD DESIGN. CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

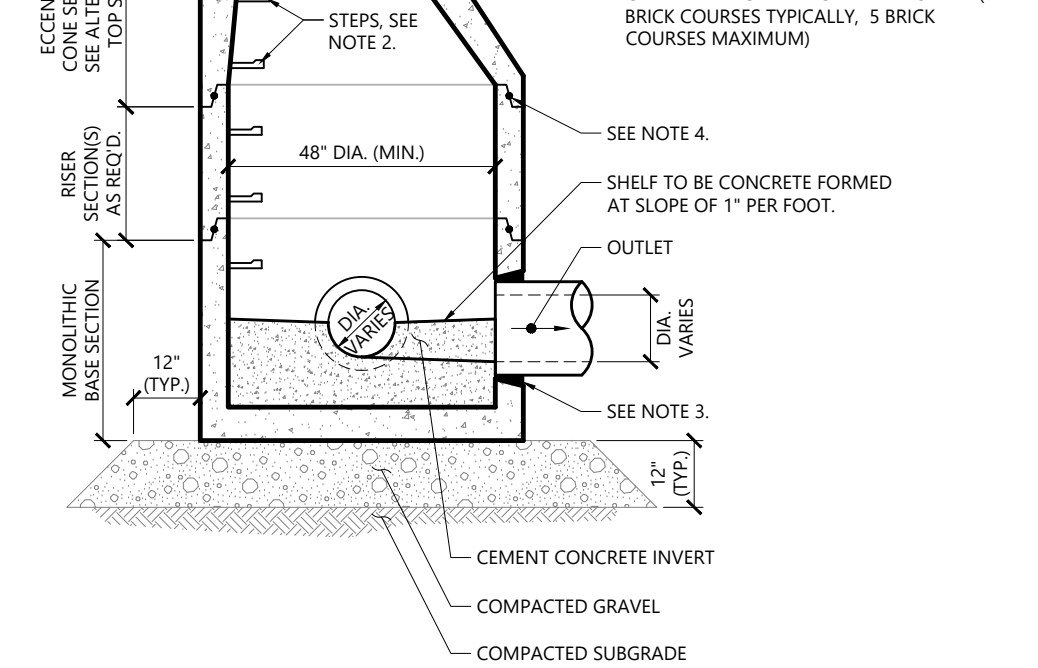
- SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 (STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS), OR ASTM F1922 (STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS).
- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 (STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS).
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBGRADE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'D' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

SC-310 PEAK ELEVATION

STORM EVENT	ELEVATION
2 YR	176.10
10 YR	176.30
25 YR	176.30
50 YR	176.30
100 YR	176.30

NOTES

- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING. DIAMETER OF STRUCTURES SHALL BE COORDINATED WITH PIPE CONFIGURATIONS.
- COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
- FOR HDPE, PVC AND DI PIPE, PROVIDE FLEXIBLE BOOT CONNECTION INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. FOR RCP, PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE AND MORTAR CONNECTIONS.
- JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PERFORMED BUTYL RUBBER.
- DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).



Drain Manhole (DMH) 11/19
N.T.S. Source: VHB LD_315

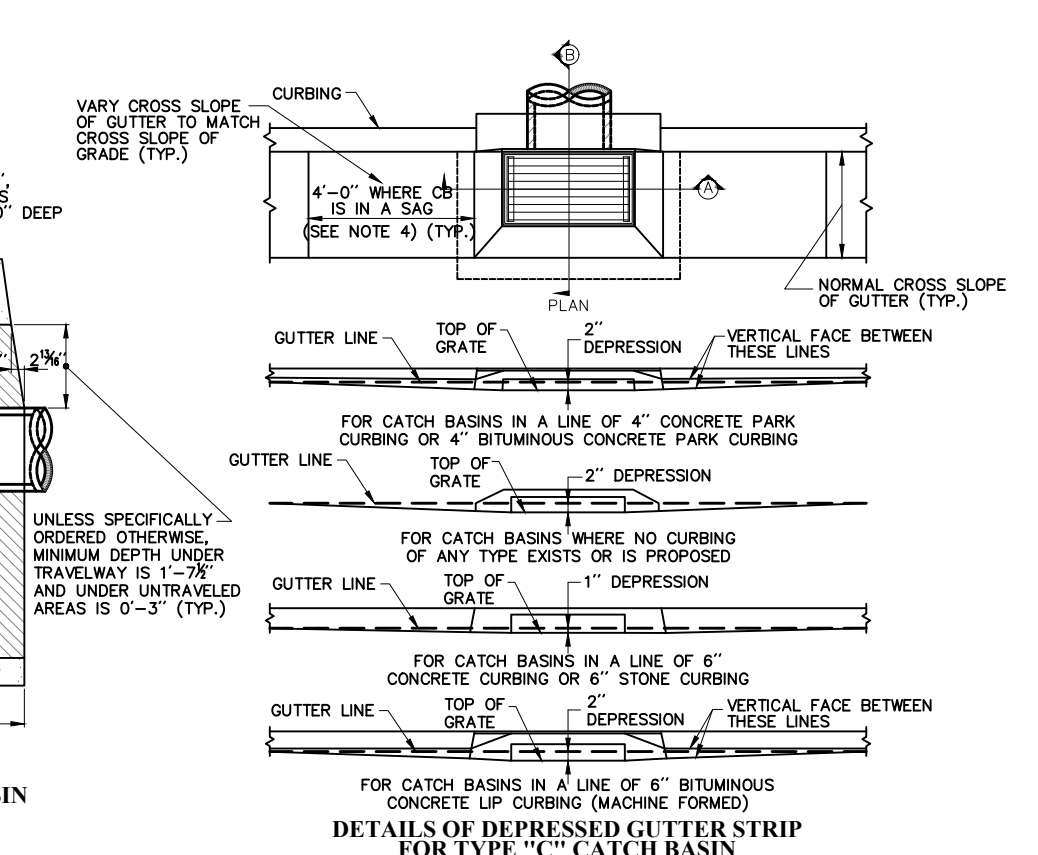
Catch Basin (CB) Shallow Cover with Oil/Debris Trap 1/16
N.T.S. Source: VHB LD_105

NOTES

- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
- PROVIDE DOGHOUSE OPENING FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. TOP SLAB SHALL NOT REST DIRECTLY ON PIPE. GROUT ALL PIPE CONNECTIONS (NON-SHRINK GROUT).
- JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PERFORMED BUTYL RUBBER.
- CATCH BASIN FRAME AND GRATE (DEPTH) SHALL BE SET IN FULL MORTAR BED.
- ADJUST TO FINISH GRADE WITH CLAY BRICK AND MORTAR AS REQUIRED.

Notes:

- USE APPROPRIATE CONCRETE TOP FOR CURBING SHOWN ON PLANS. IF CURBING IS NOT SPECIFIED ON THE PLANS, IT SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.
- USE 1" OR 1 1/2" ON UPGRADING SIDE OF CONTINUOUS GRADE AND 1" OR 1 1/2" ON DOWNGRADING SIDE OF CONTINUOUS GRADE OR AS DIRECTED.
- UNLESS OTHERWISE APPROVED, PRECAST UNITS SHALL BE USED.
- IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE OVER ALL DIMENSIONS SHOWN HERE AND SECTION 5.07 OF THE STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS. CORRELLING SHALL BE PROVIDED TO A MAXIMUM OF 3". NO PROJECTION SHALL EXTEND INSIDE THE LIMITS NOTED BY **.
- WALL THICKNESS OF ALL ODS OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. (12" THICKNESS WILL START AFTER THE FIRST 10')
- TO CONVEY SUBSURFACE DRAINAGE, OPENINGS SHALL BE FORMED IN THE FOUNDATION WALLS AT OR IMMEDIATELY ABOVE THE BOTTOM OF THE PERVIOUS BACKFILL. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF F'c = 4000 PSI SHALL BE OBTAINED PRIOR TO STARTING CONSTRUCTION. CONCRETE TECH FOR CONSTRUCTION AND SUPPLEMENTALS SHALL GOVERN.

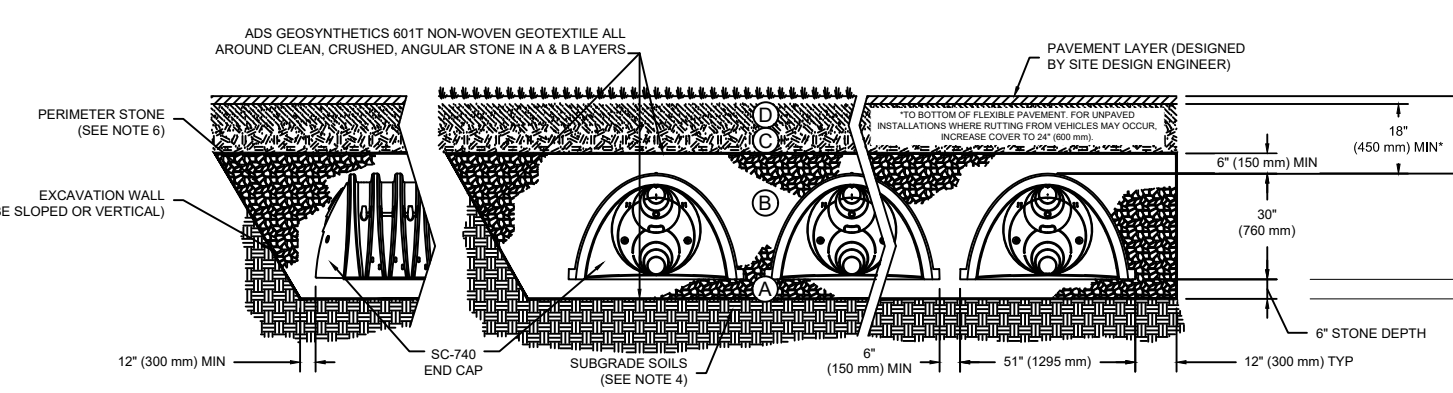


Miscellaneous Connecticut Detail Type "C" & "C-L" Catch Basins
N.T.S. Source: BY OTHER

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FINAL FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF THE FINISHED GRADE OR UNPAVED FINISHED GRADE ABOVE THE PAVEMENT SUBGRADE. MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	NA	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRENGTH MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE TO LAYER 'D' OR 18" ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBGRADE MAY BE PART OF THE 'C' LAYER.	GRANULAR FILL-GRADED SOIL/AGGREGATE MIXTURES - 10% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBGRADE MATERIALS CAN BE USED IN LAYER 'C' OF THIS LAYER.	AASHTO M45 A-1, A-2, A-3 OR AASHTO M47 3, 307, 4, 407, 5, 56, 57, 47, 48, 7, 7B, 8, 9B, 9, 10	BEGIN COMPACTIONS AFTER 12" (100 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 1" (100 mm) MAX LIFTS TO A MIN. 90% PROCTOR DENSITY FOR WELL-GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (9.5) W. DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (9.8) W.
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A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE.	AASHTO M47 3, 307, 4, 407, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR #4 (AASHTO M47) STONE".
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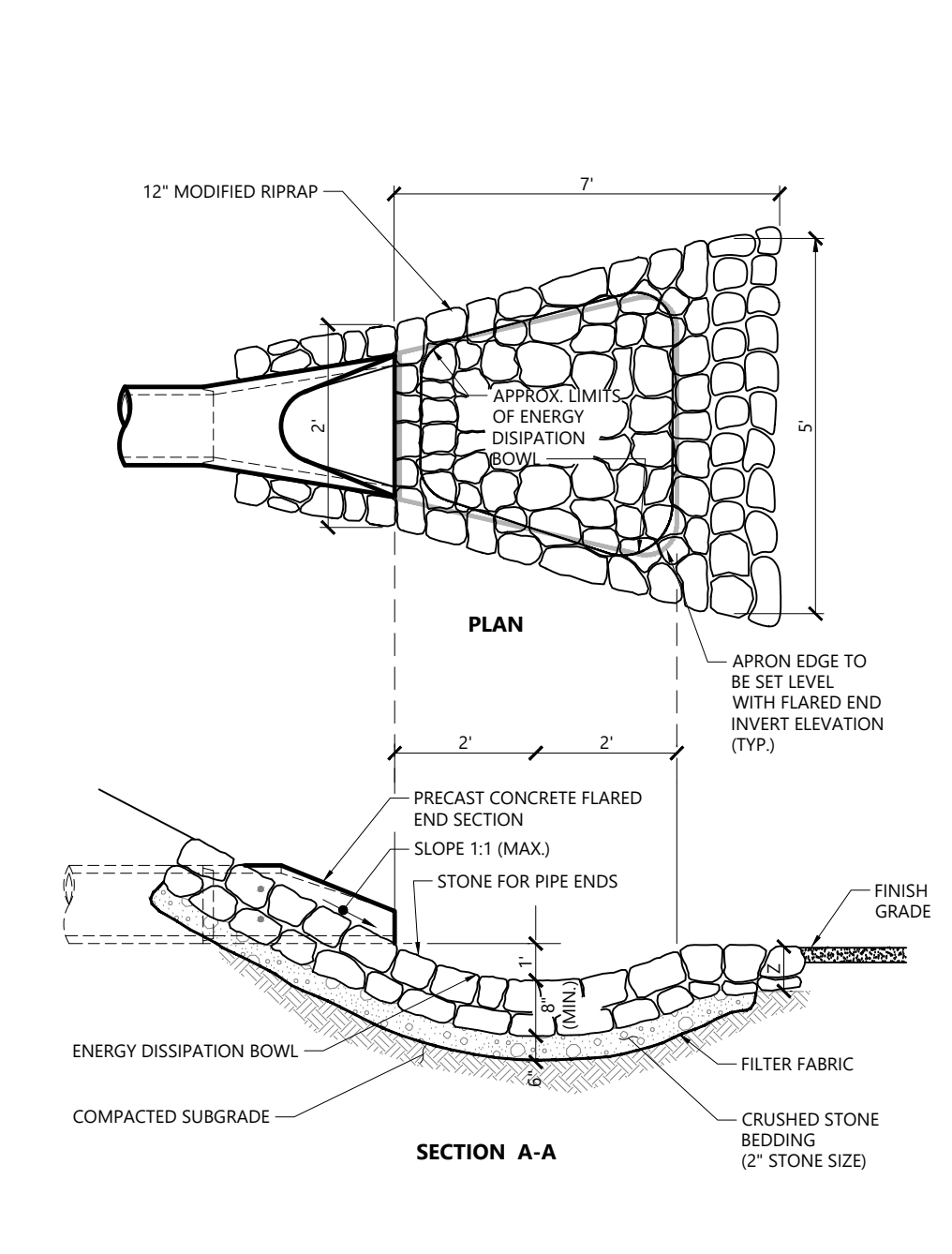
NOTES:

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 (STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS), OR ASTM F1922 (STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS).
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 (STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS).
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBGRADE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'D' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

SC-740 PEAK ELEVATION

STORM EVENT	ELEVATION
2 YR	185.40
10 YR	185.60
25 YR	185.70
50 YR	185.70
100 YR	185.70

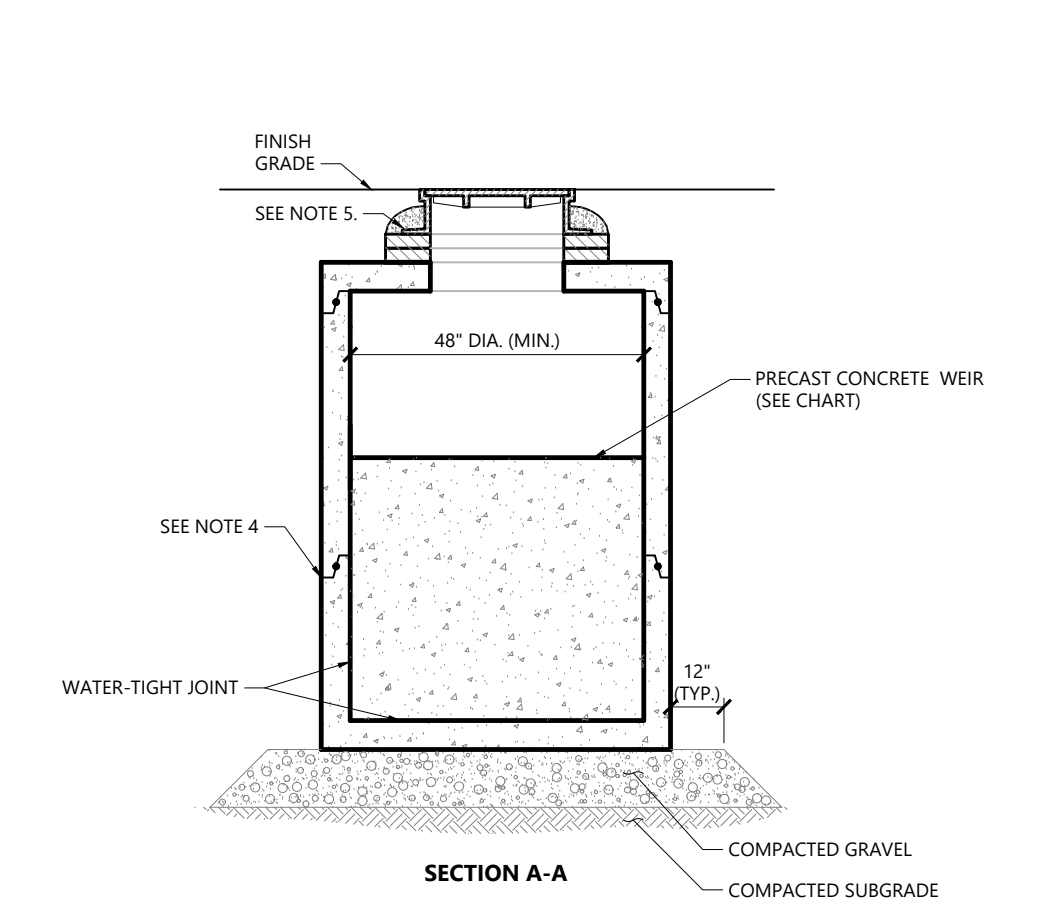
Utility Trench 11/19
N.T.S. Source: VHB LD_300



Flared End Section (FES) with Stone Protection 3/19
N.T.S. Source: VHB REV LD_134

OUTLET STRUCTURE CHART

BASIN NUMBER	TOP OF WEIR ELEVATION
OCS-132	185.40
OCS-130	176.23

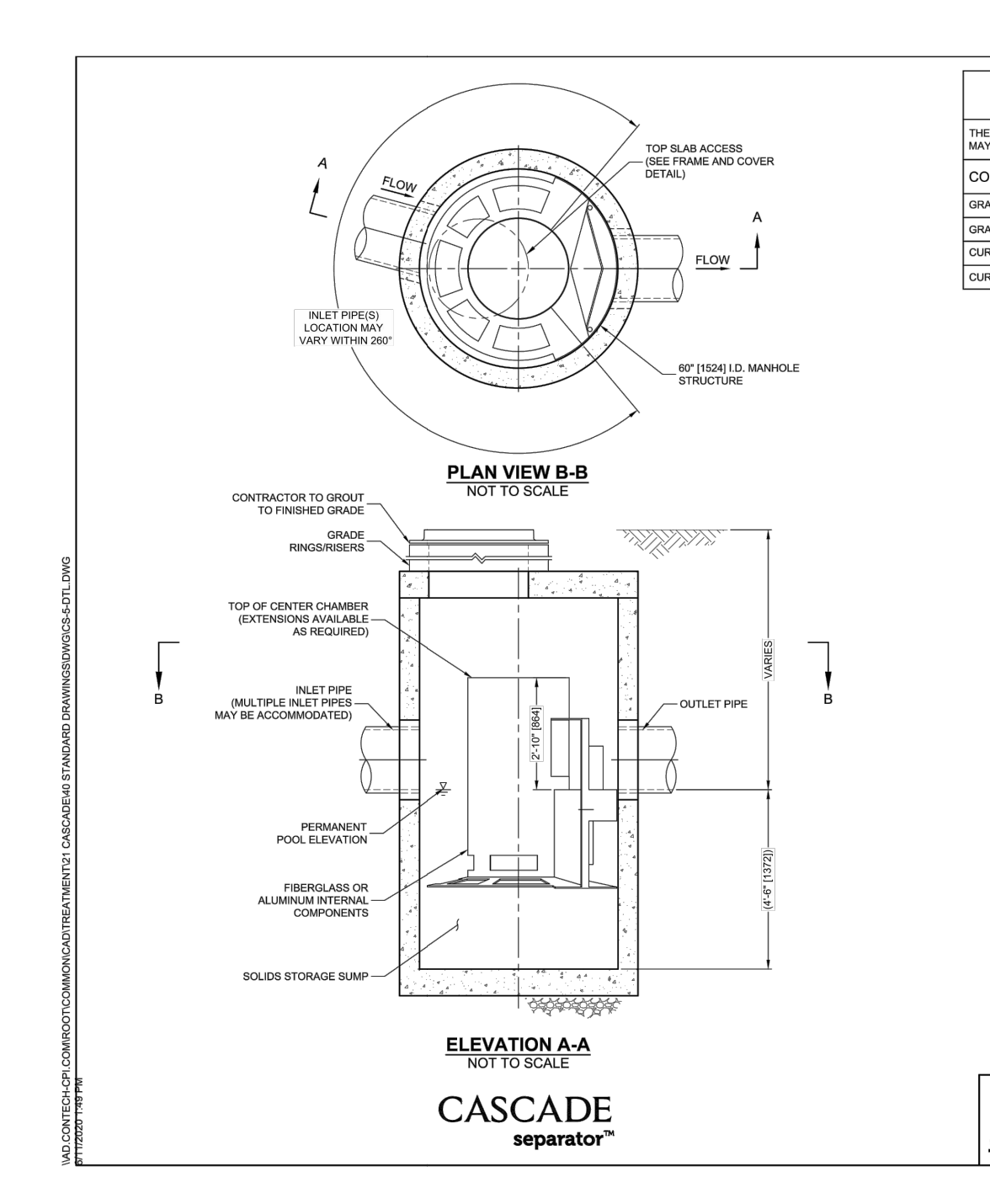


Outlet Control Structure with Weir (OCS) 3/20
N.T.S. Source: VHB REV LD_162A

NOTES

- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING. DIAMETER OF STRUCTURES SHALL BE COORDINATED WITH PIPE CONFIGURATIONS.
- COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
- FOR HDPE, PVC AND DI PIPE, PROVIDE FLEXIBLE BOOT CONNECTION INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. FOR RCP, PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE AND MORTAR CONNECTIONS.
- JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PERFORMED BUTYL RUBBER.
- DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).

Subsurface Detention/Infiltration System (StormTech SC-740) 10/20
N.T.S. Source: StormTech LD_182-740



CASCADE SEPARATOR DESIGN NOTES

THE STANDARD CS-5 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

GRADED INLET ONLY (NO INLET PIPE)
GRADED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	INLET QUALITY FLOW RATE (GAL/S)	PEAK FLOW RATE (GAL/S)	RETURN PERIOD OF PEAK FLOW (YR)	RIM ELEVATION

PIPE DATA	INVERT	MATERIAL	CHAMBER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			

NOTES: SPECIAL REQUIREMENTS

FRAME AND COVER
(FRAME TEXT VARIES)
NOT TO SCALE.

GENERAL NOTES

- CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DIMENSIONS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEER.
- CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS MANUAL.
- CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HEAVY LOAD RAINFALL ASSUMED EARTH COVER OF 7', 2" INLET AND DRINKING WATER ELEVATION OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M88 AND BE CAST WITH THE CONTRACTOR.
- CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C94 AND AASHTO LOAD FACTOR DESIGN METHOD.
- ALTERNATE UNITS ARE SHOWN IN MILLIMETERS (mm).

INSTALLATION NOTES

- 2" MIN. BASE/BACKFILL DEPTH AND/OR ANCHORATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE DETERMINED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STEPS.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND/OR OUTLET PIPES AND/OR INVERT INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CONNECTIONS TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOURE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CASCADE separator™

CONTECH ENGINEERED SOLUTIONS LLC
www.contech-engineers.com
400 Cheshire Park Dr., Suite 400, West Chester, OH 45380
(513) 933-2122

CS-5 CASCADE SEPARATOR STANDARD DETAIL

Proposed Commercial Development
1263 Hopmeadow Street
Simsbury, Connecticut

No.	Revision	Date	Apprv.
1	TOWN/STATE/TENANT COMMENTS	8/23/2023	

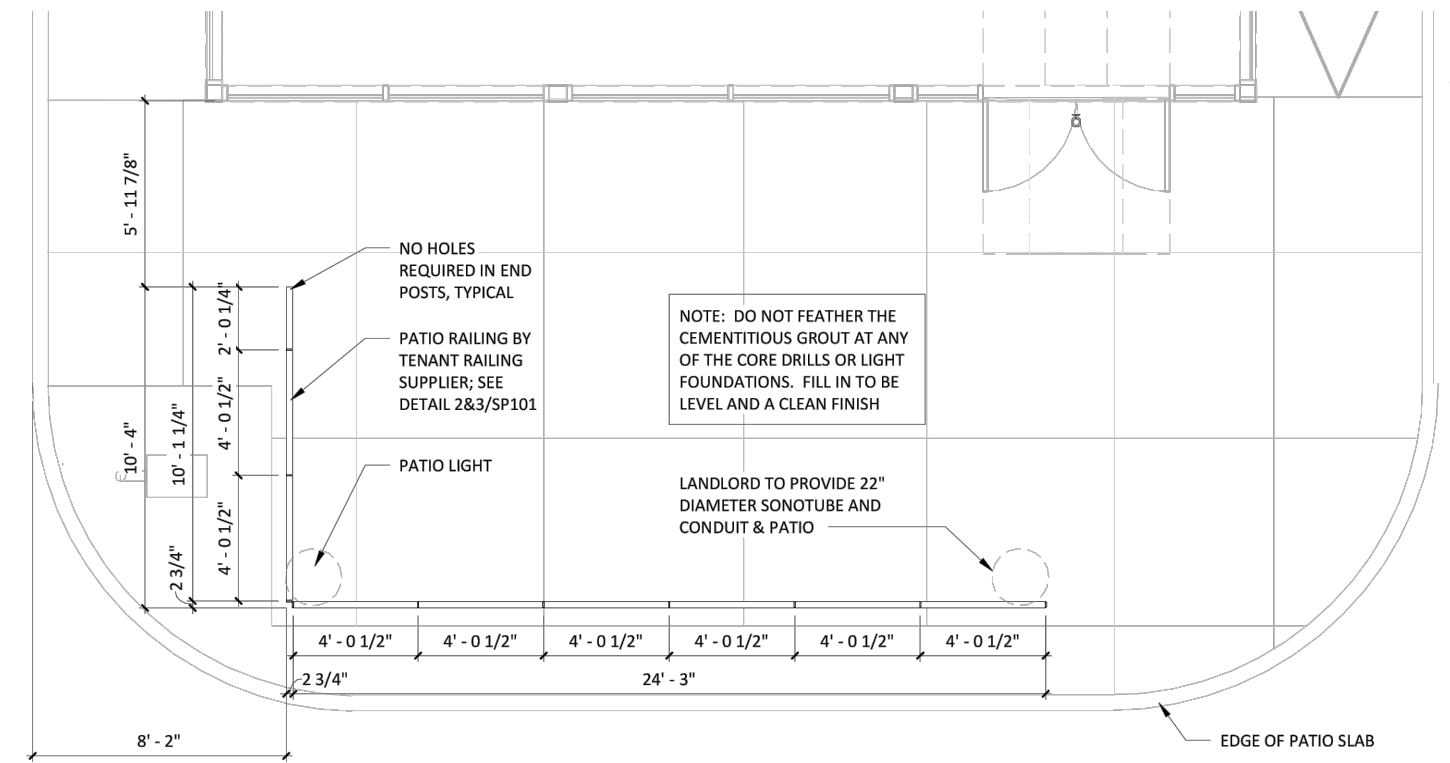
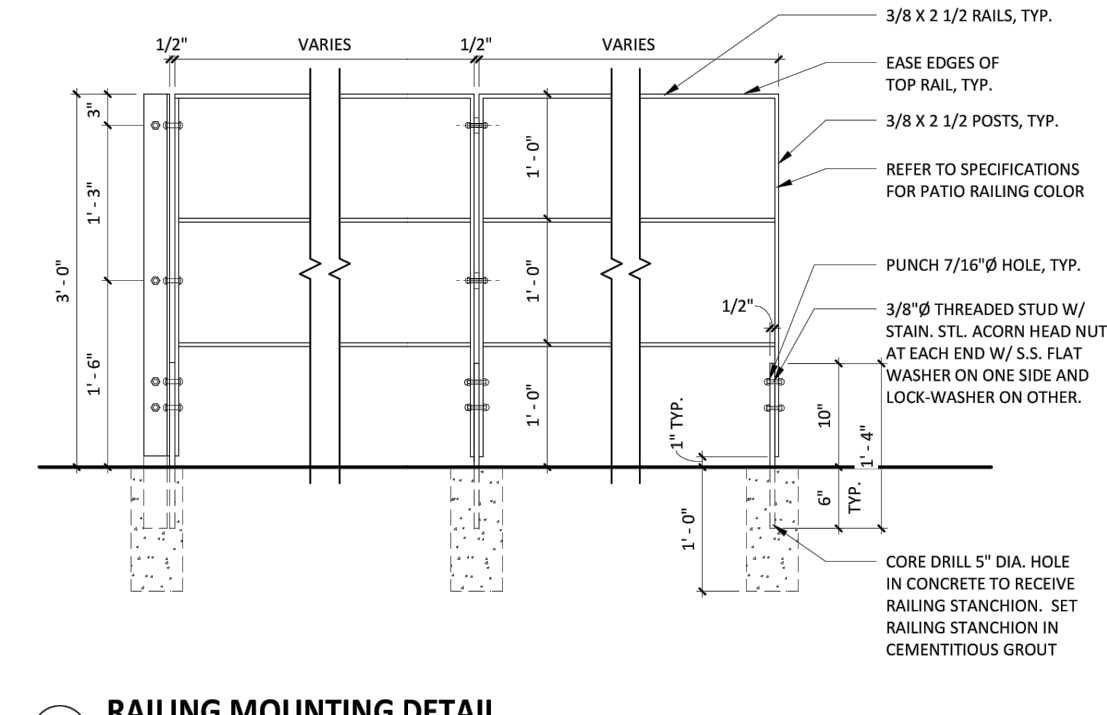
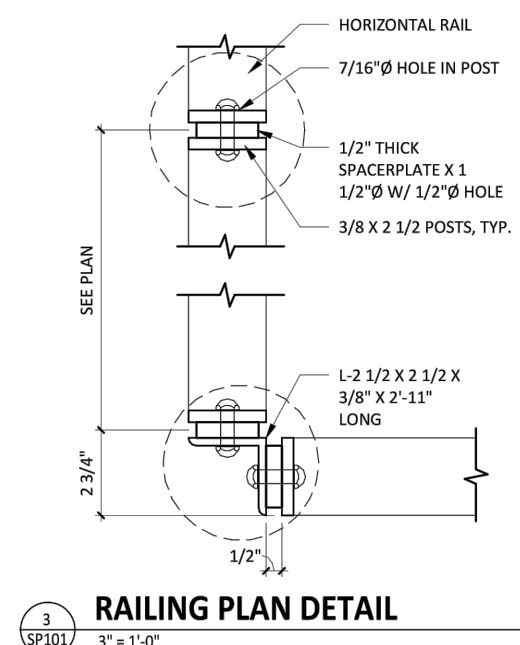
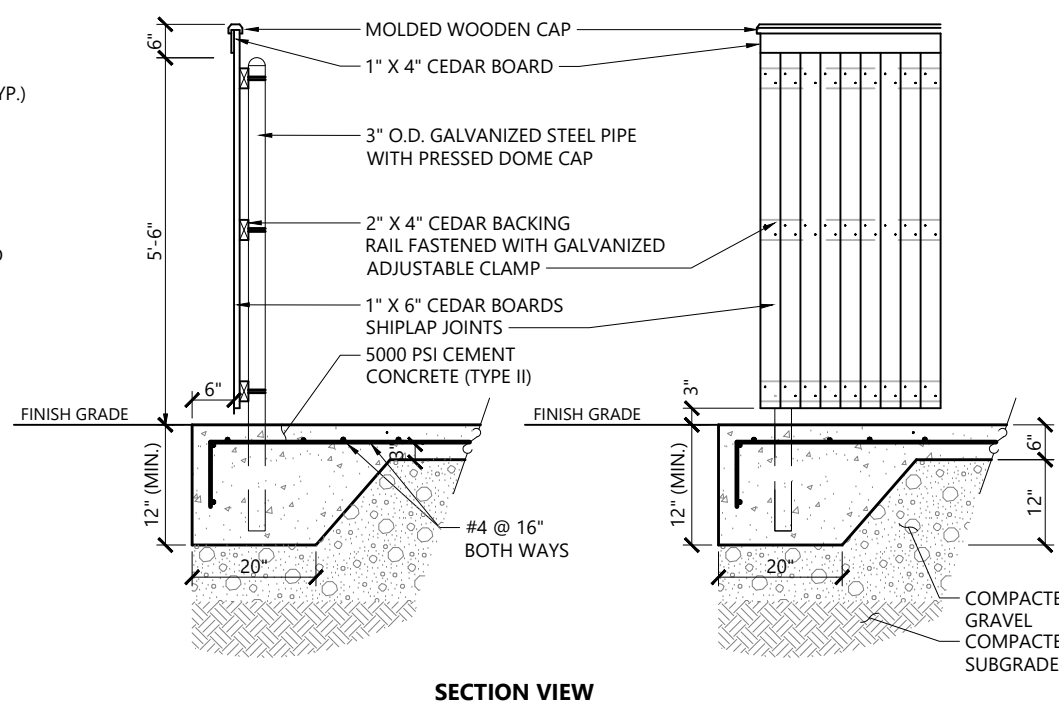
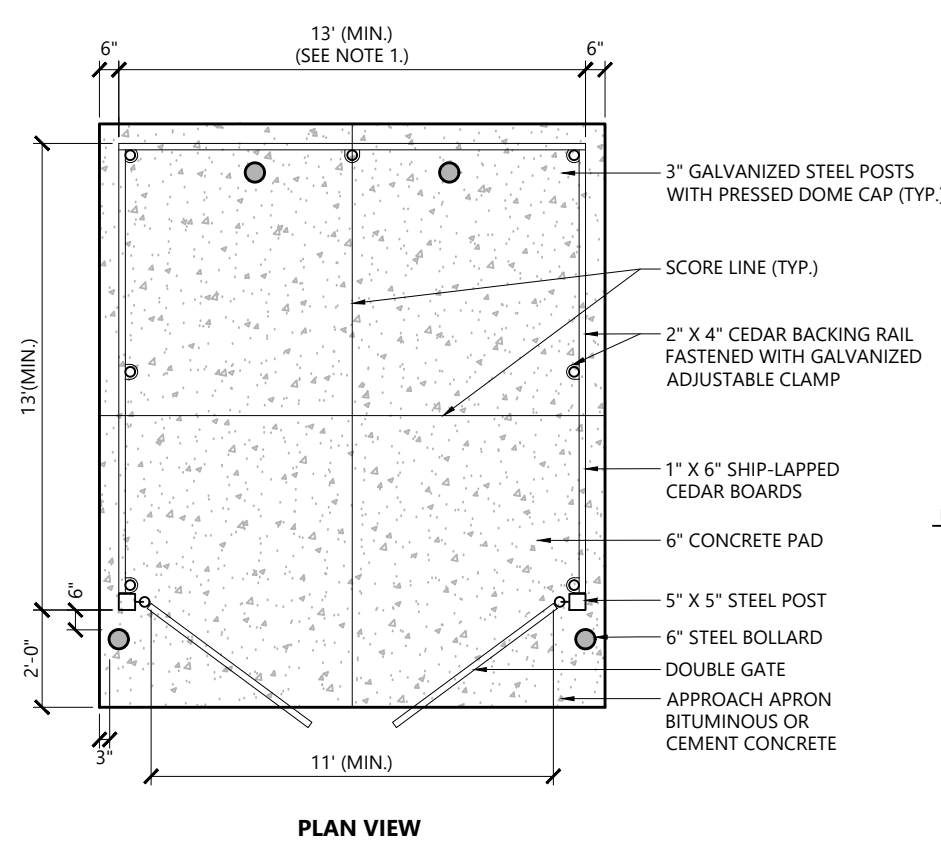
Designed by _____ Checked by _____
Local Approvals _____ May 26, 2023

Site Details

Drawing Title _____
Drawing Number _____

C-8

22827 LICENSED PROFESSIONAL ENGINEER
8/23/23



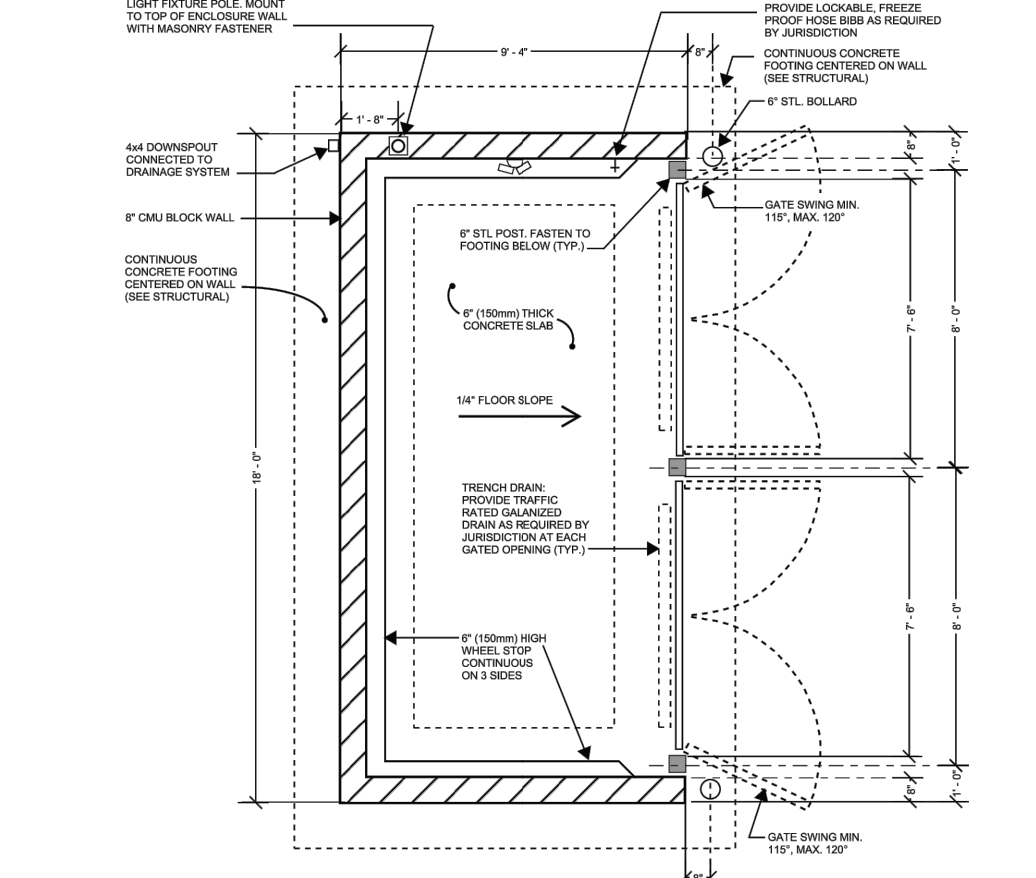
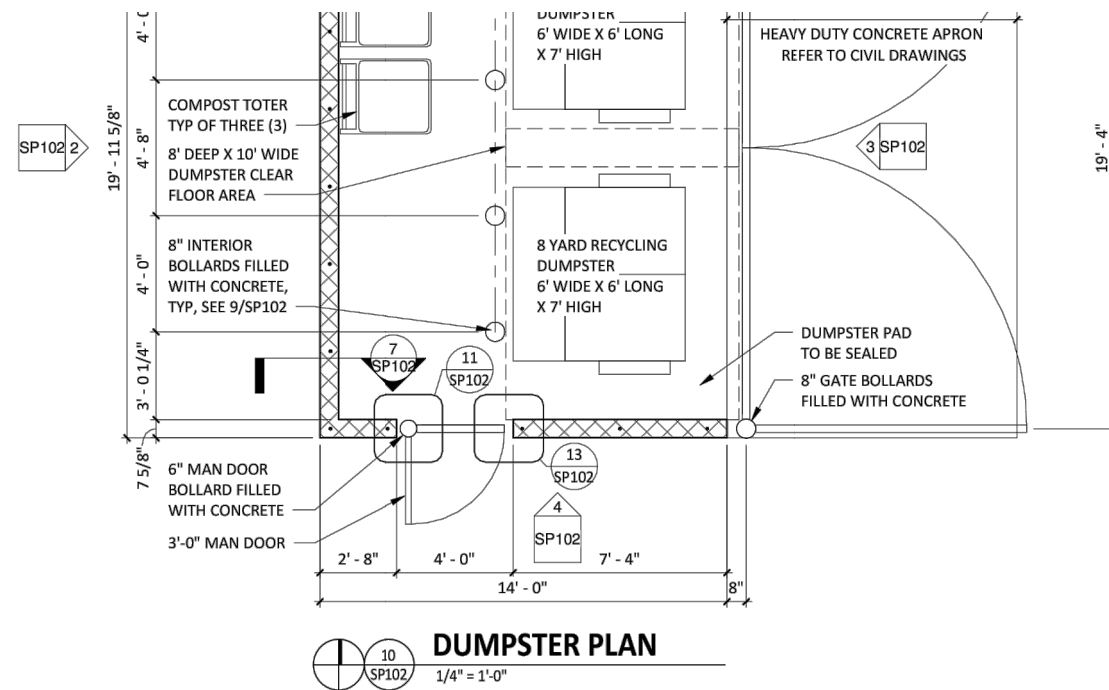
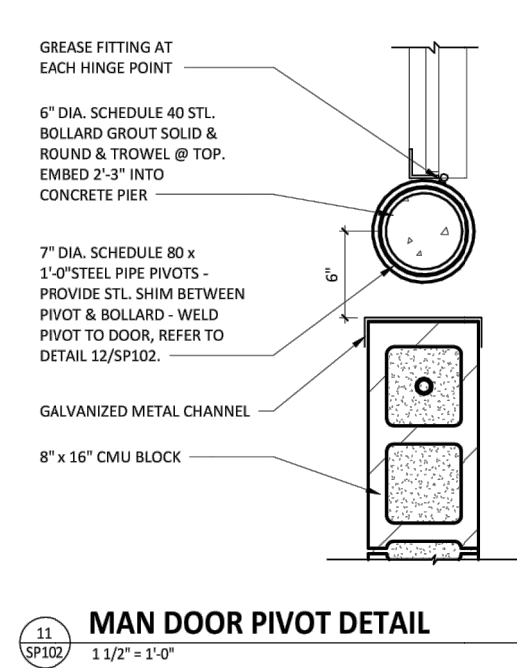
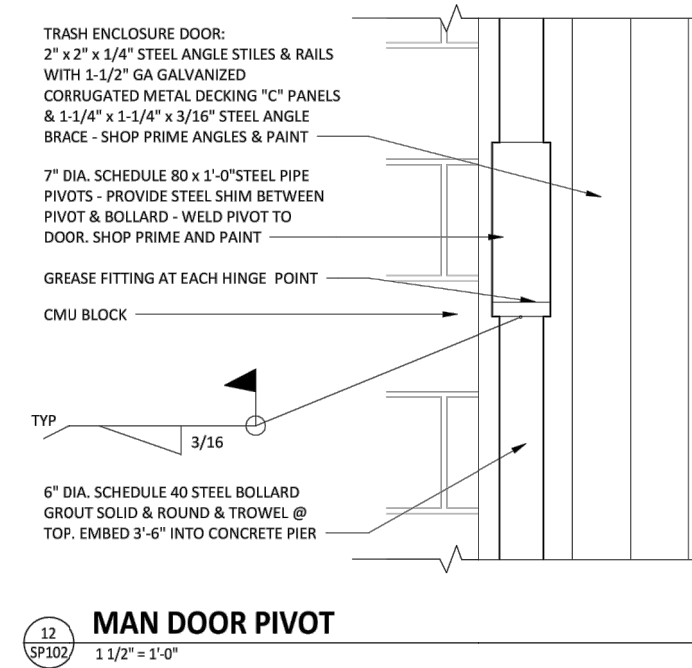
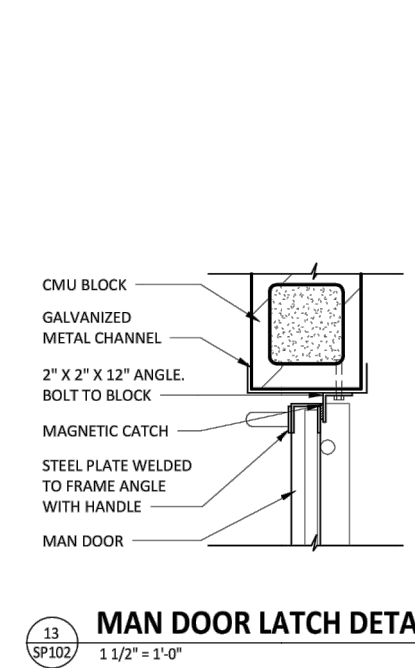
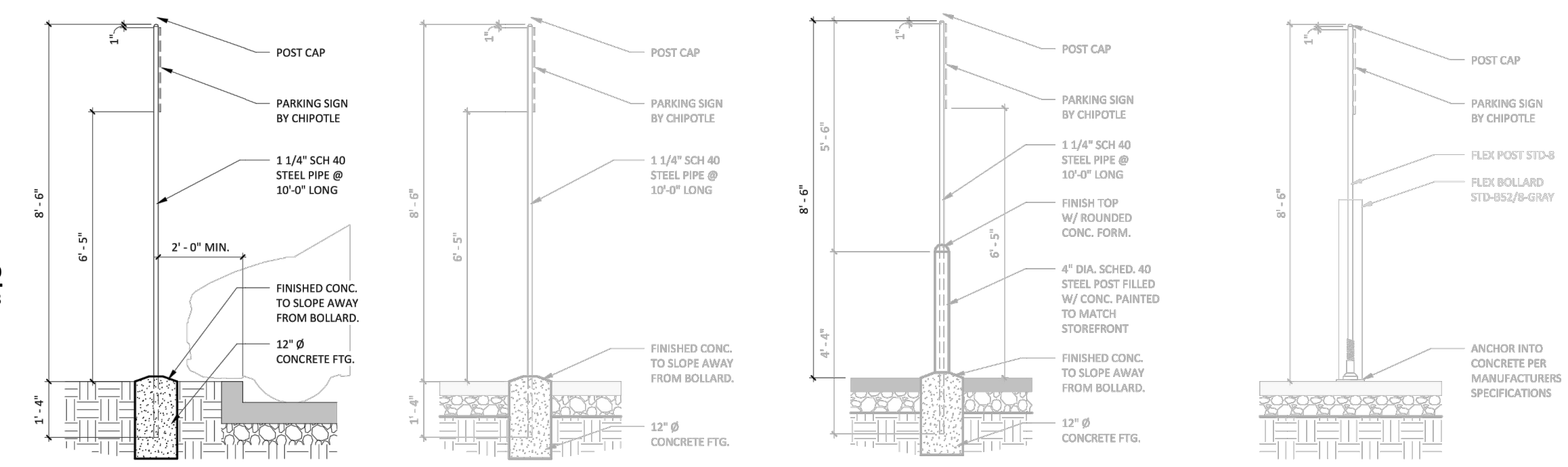
- NOTES**
- DUMPSTER PAD DIMENSIONS SHOWN AS MINIMUM. REFER TO PLAN FOR ACTUAL DIMENSION.
 - PAD DESIGNED FOR 6 YARD DUMPSTER.

Dumpster Pad w/ Enclosure - Proposed Retail

N.T.S. Source: VHB REV LD. 713

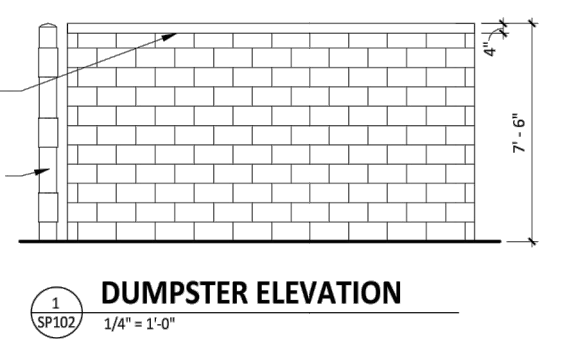
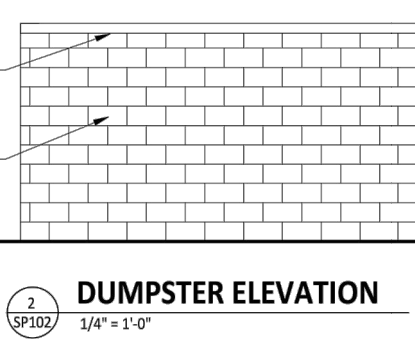
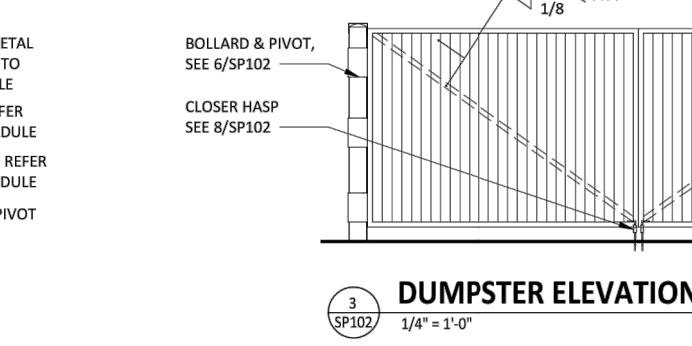
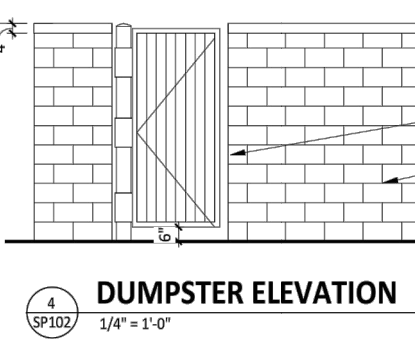
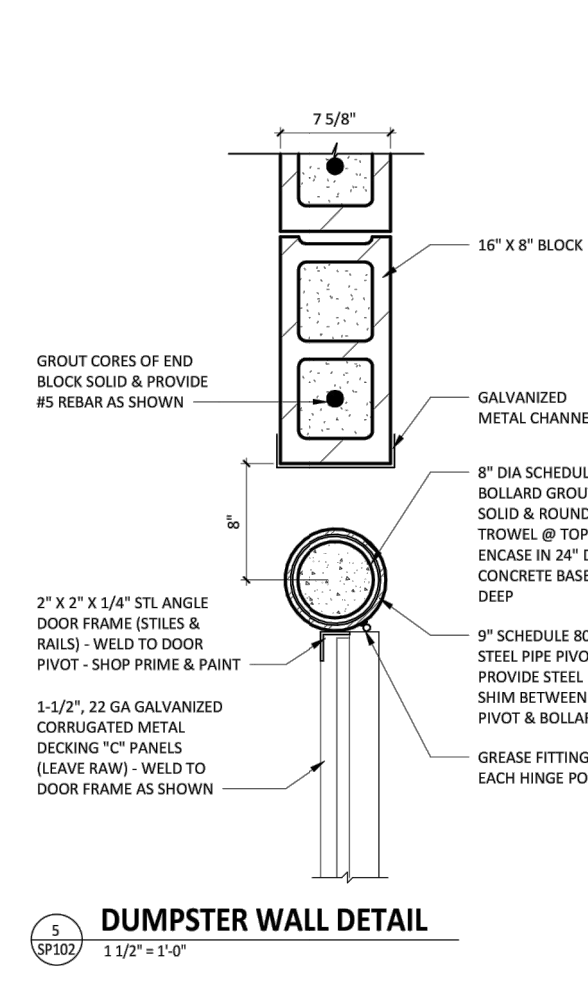
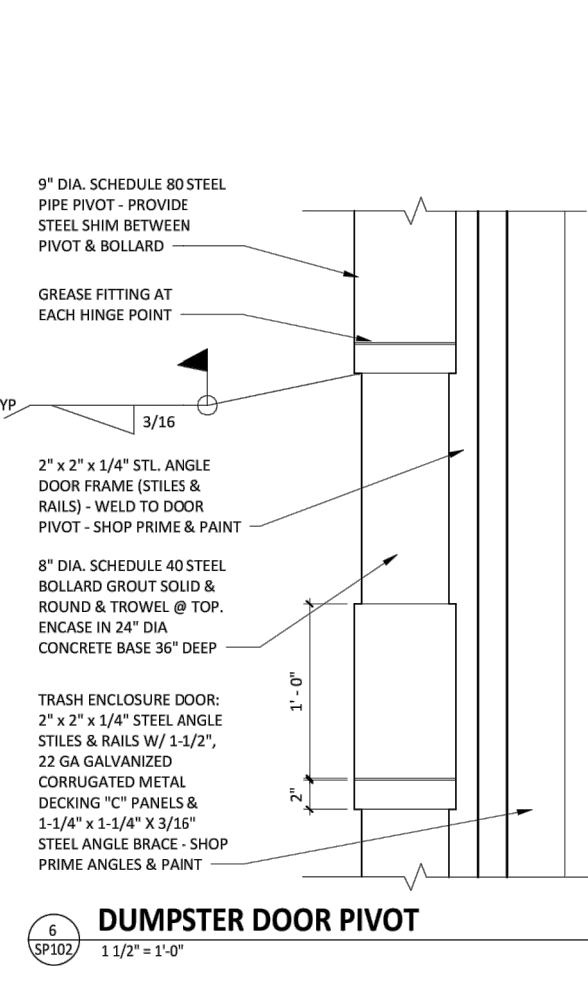
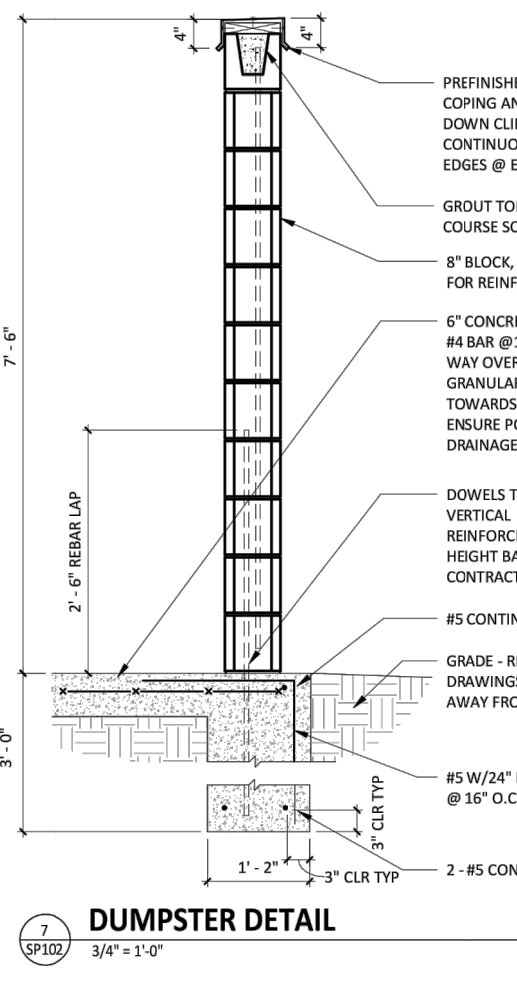
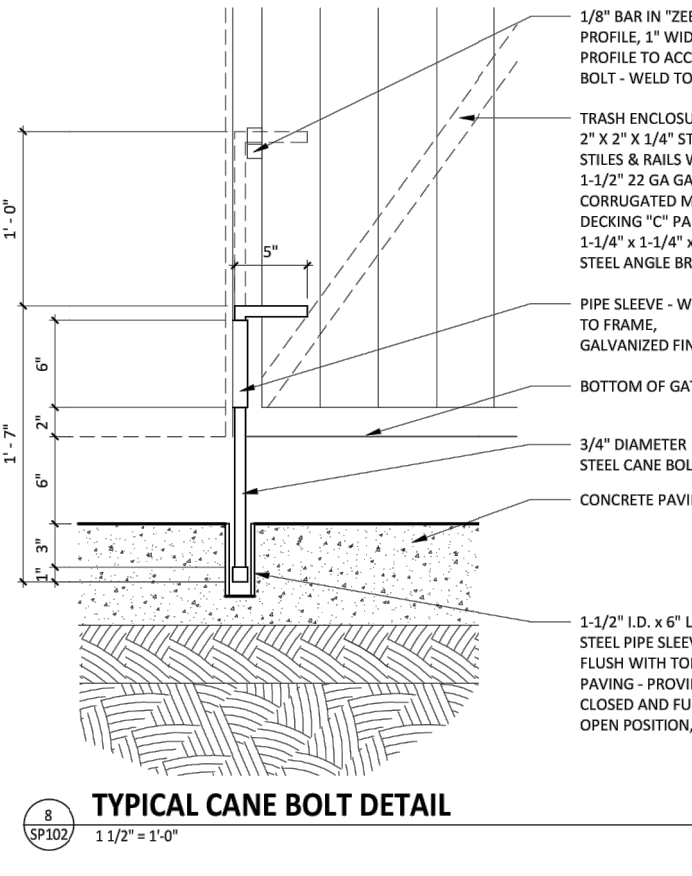
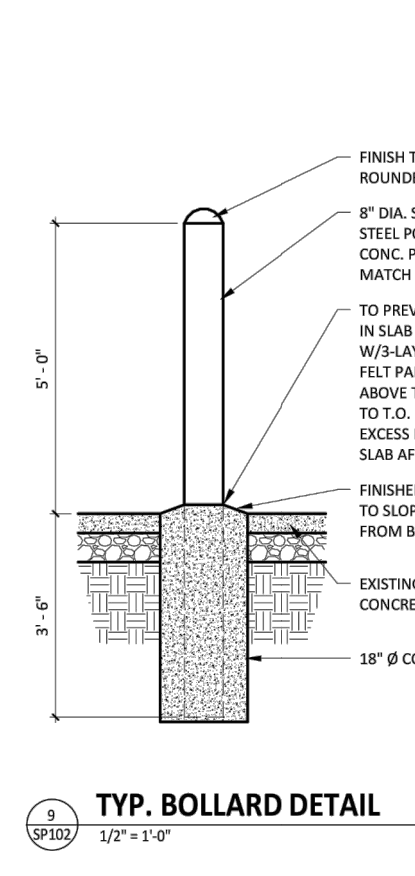
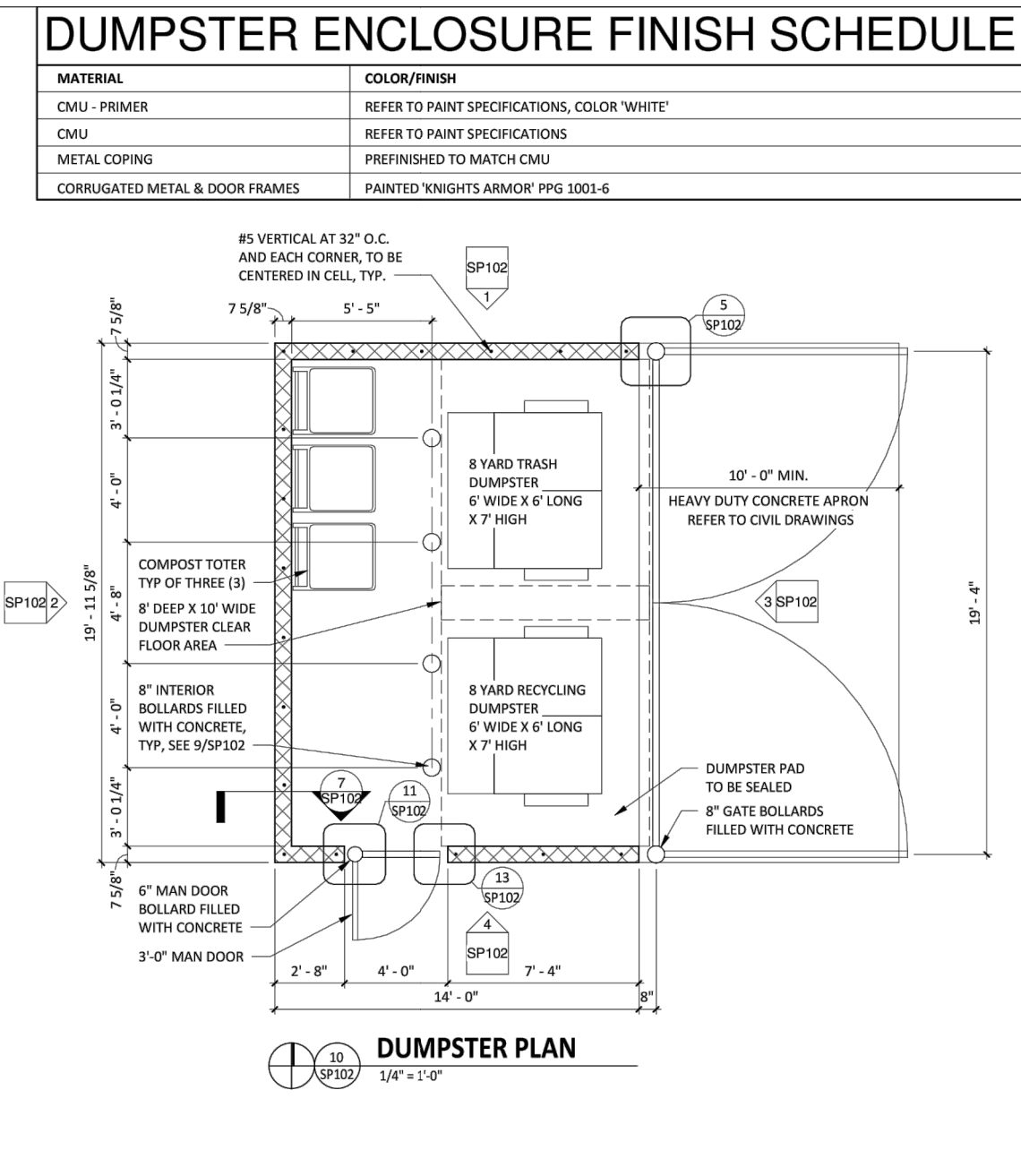
Patio Railing Details for 3,325 Restaurant with Digital Pickup

N.T.S. Source: BY OTHERS



Trash Enclosure - 2,400sf Restaurant with Drive Thru

N.T.S. Source: VHB REV LD. 750



Dumpster Detail for 2,325 Restaurant with Digital Pickup

N.T.S. Source: BY OTHERS

Proposed Commercial Development

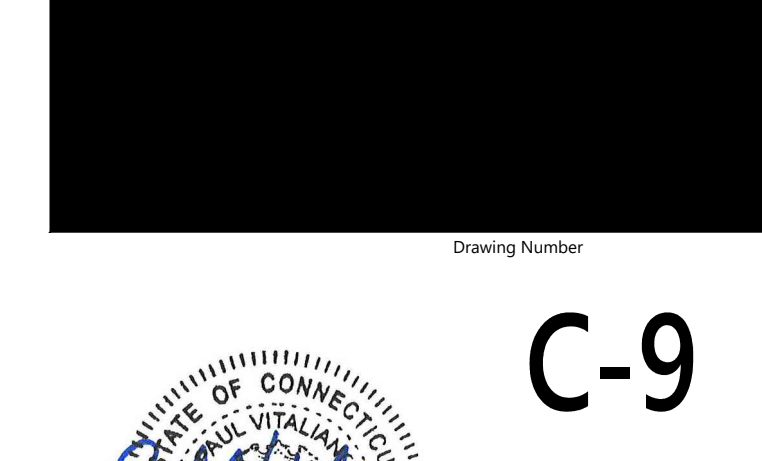
1263 Hopmeadow Street
Simsbury, Connecticut

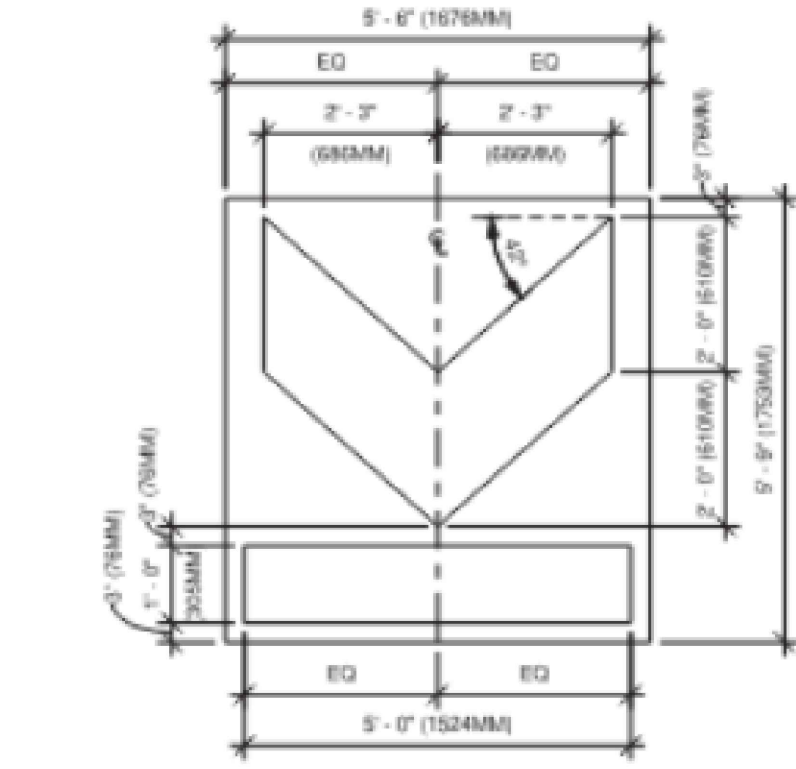
No.	Revision	Date	Apprv.
1	TOWN/STATE/TENANT COMMENTS	8/23/2023	

Designed by: _____ Checked by: _____
Issued for: _____ Date: _____

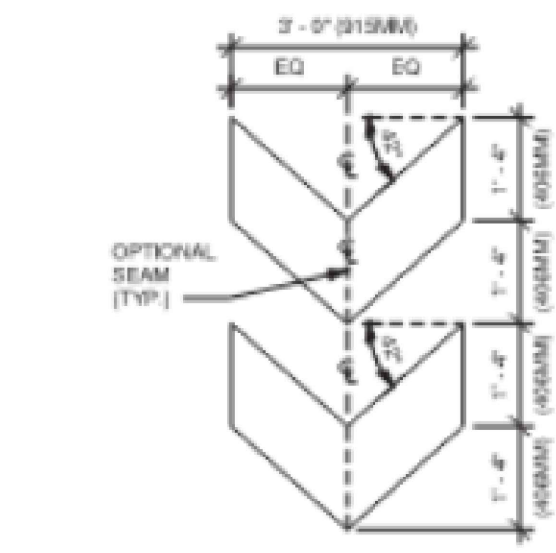
Local Approvals May 26, 2023

Site Details

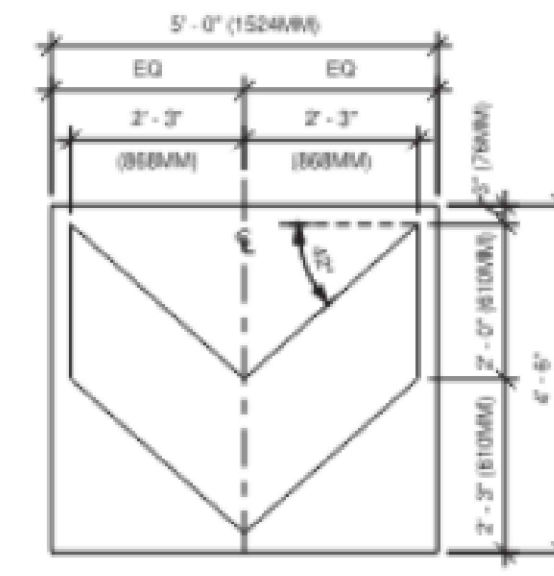




⑥ DTE - WAYFINDING GRAPHIC ARROW - EXIT
Scale: 1/2" = 1'-0"



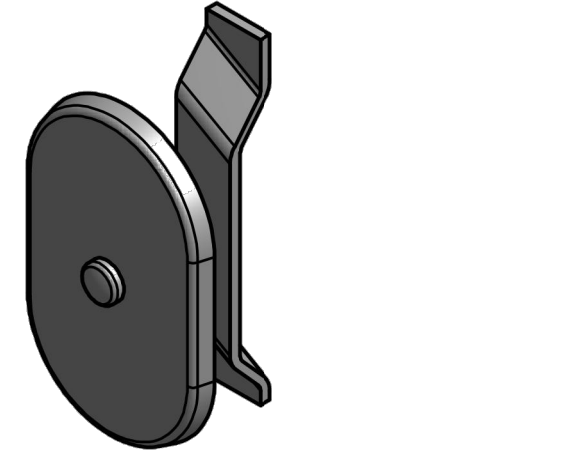
⑦ DTE - WAYFINDING GRAPHIC ARROW - DOUBLE
Scale: 1/2" = 1'-0"



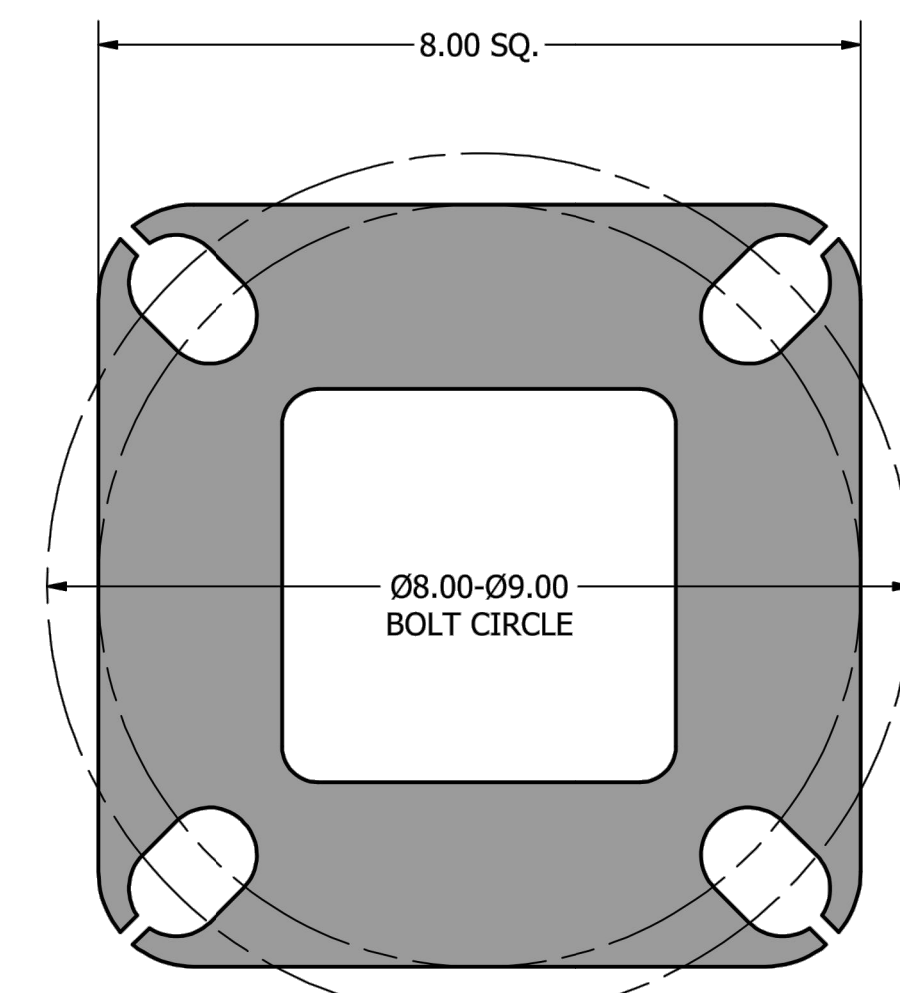
④ DTE - WAYFINDING GRAPHIC ARROW - SINGLE
Scale: 1/2" = 1'-0"

NO.		POLE SHAFT SPECIFICATIONS			
1.		SHAFTS ARE ONE SECTION DESIGN FABRICATED FROM A WELDABLE GRADE CARBON STEEL STRUCTURAL TUBING WITH A UNIFORM WALL THICKNESS. MATERIAL SHALL CONFORM TO ASTM A-500 GRADE B WITH A MINIMUM YIELD STRENGTH OF 46,000 P.S.I. BASE PLATES ARE CONSTRUCTED OF A STRUCTURAL QUALITY HOT ROLLED CARBON STEEL PLATE (ASTM A-36 HRS) WITH A GUARANTEED MINIMUM YIELD STRENGTH OF 36,000 P.S.I.			
2.		ANCHOR BOLTS (F1554 GRADE 55) ARE "L" BENT BARS HAVING A MINIMUM YIELD STRENGTH OF 55,000 P.S.I. THE BOLTS ARE FULLY GALVANIZED PER ASTM A153 SPECIFICATIONS AND FURNISHED COMPLETE WITH 2 HEX NUTS AND 2 FLAT WASHERS.			
3.		POLES SHALL HAVE A POLYESTER POWDER COAT FINISH IN A STANDARD COLOR.			
		POLE DIMENSIONS			
	POLE HGT. (FT.)	TOP SQ. SIZE (IN.)	BOT. SQ. SIZE (IN.)	GAGE	MTG. HGT. (FT.)
	18'	4.00	4.00	11 GAGE	18'
		BASE PLATE DIMENSIONS			
	BOLT CIRCLE (IN.)	BASE PLATE DIM. (IN.)	BOLT HOLE (IN.)	PLATE THK. (IN.)	
	8.00-9.00	8.00 SQ.	1.00	.75	
		ANCHOR BOLT DIMENSIONS			
	ANCHOR BOLT DIA. (IN.)	ANCHOR BOLT LENGTH (IN.)			
	.75	20.00			
		ALLOWABLE WIND LOADING (SQ. FT.)			
	WIND*	80 MPH	90 MPH	100 MPH	120 MPH
	EPA	11.1	9.0	7.2	5.1

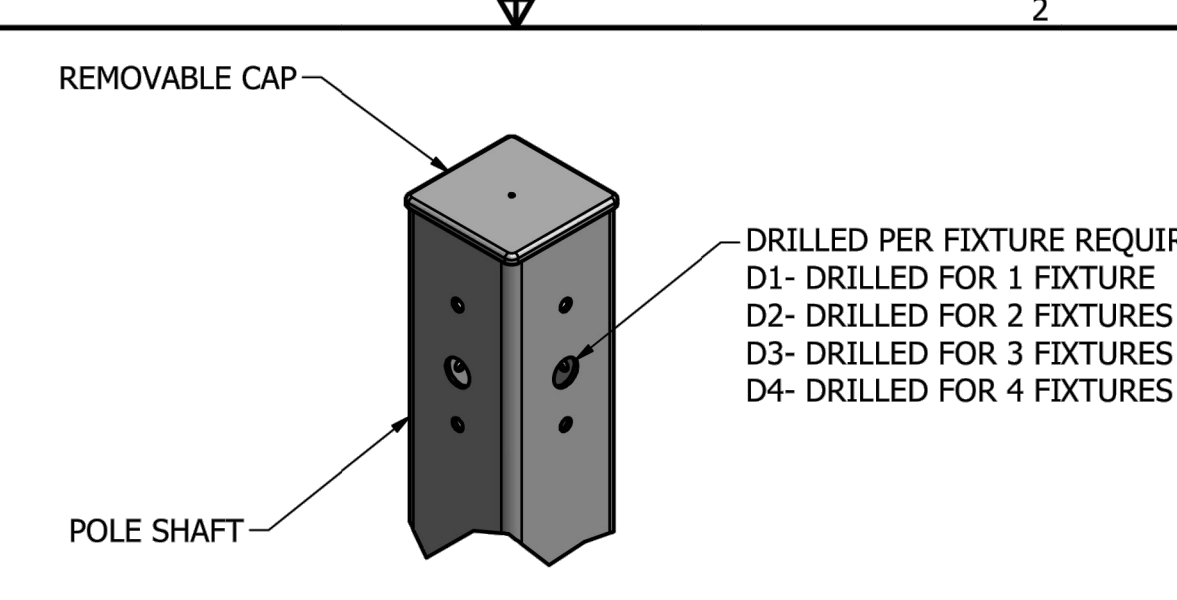
*WITH 1.3 GUST FACTOR



3.00 X 5.00 HAND HOLE COVER

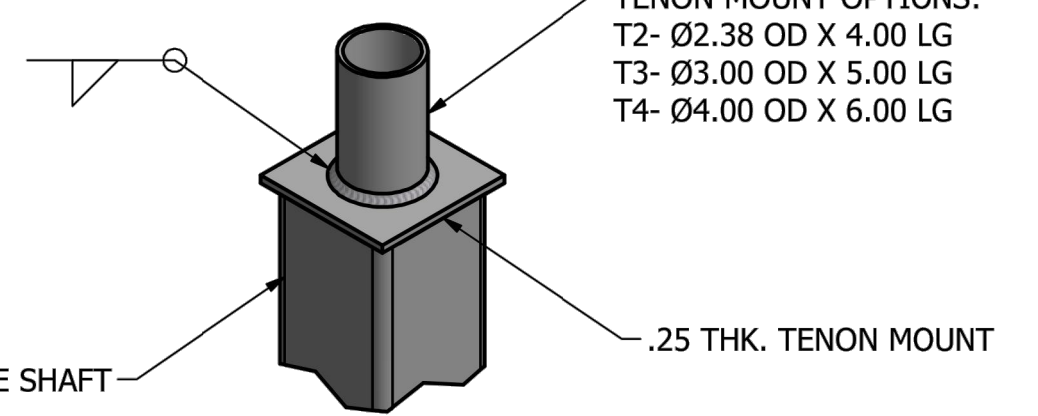


8.00 X 8.00 X .75 THK. BASE PLATE

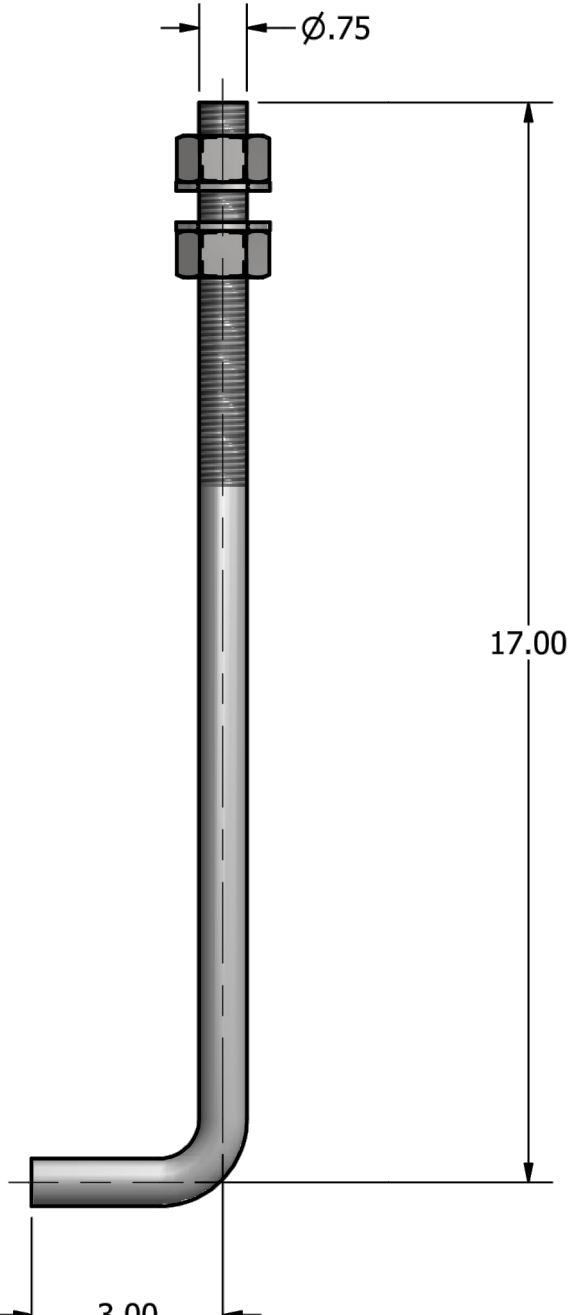


DRILLED PER FIXTURE REQUIREMENTS:
D1- DRILLED FOR 1 FIXTURE
D2- DRILLED FOR 2 FIXTURES AT 90° OR 180°
D3- DRILLED FOR 3 FIXTURES
D4- DRILLED FOR 4 FIXTURES

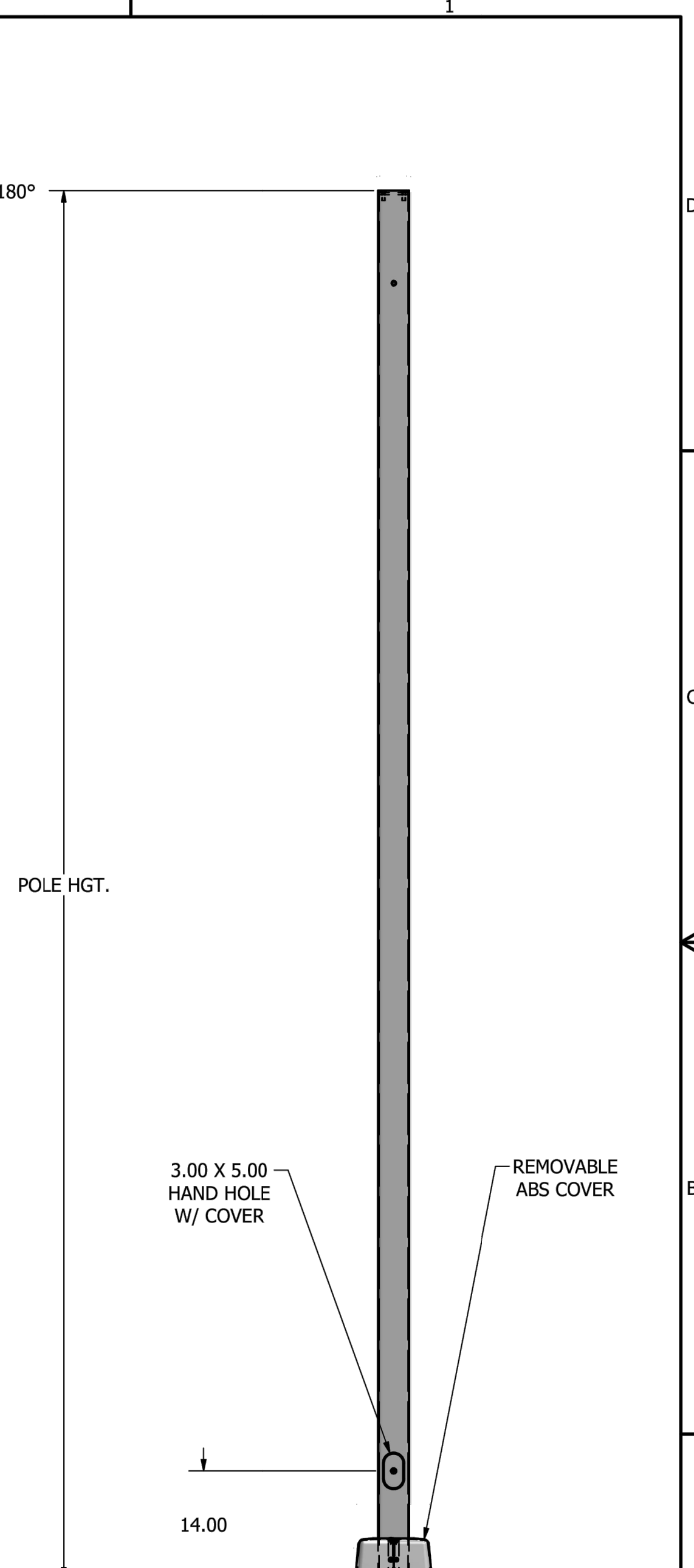
DRILL MOUNT OPTIONS



TENON MOUNT OPTIONS



Ø.75 X 20.00 ANCHOR BOLT



POLE DETAIL

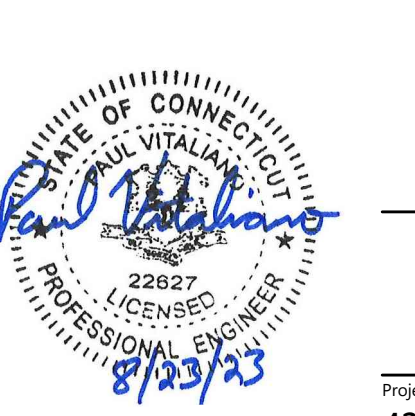
Proposed Commercial Development
1263 Hopmeadow Street
Simsbury, Connecticut

No.	Revision	Date	Apprv.
1	TOWN/STATE/TENANT COMMENTS	8/23/2023	

Designed by	Checked by
Issued for	Date
Local Approvals	May 26, 2023

Local Approvals

Site Details



Paul Vitaliano
22827
LICENSED PROFESSIONAL ENGINEER
8/23/23

Project Number
42810.00

C-10

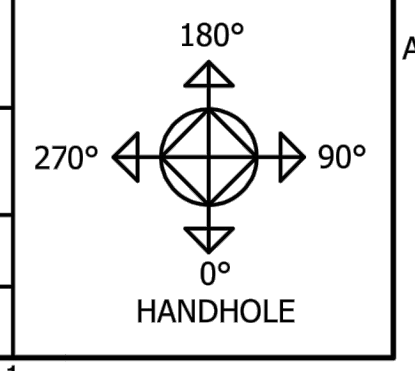
Sheet 1 of 1

lyte poles a DWM company
P.O. Box 340
Eastpointe, MI 48021
P: (586) 771-4610 | F: (586) 771-5527
www.lytepoles.com

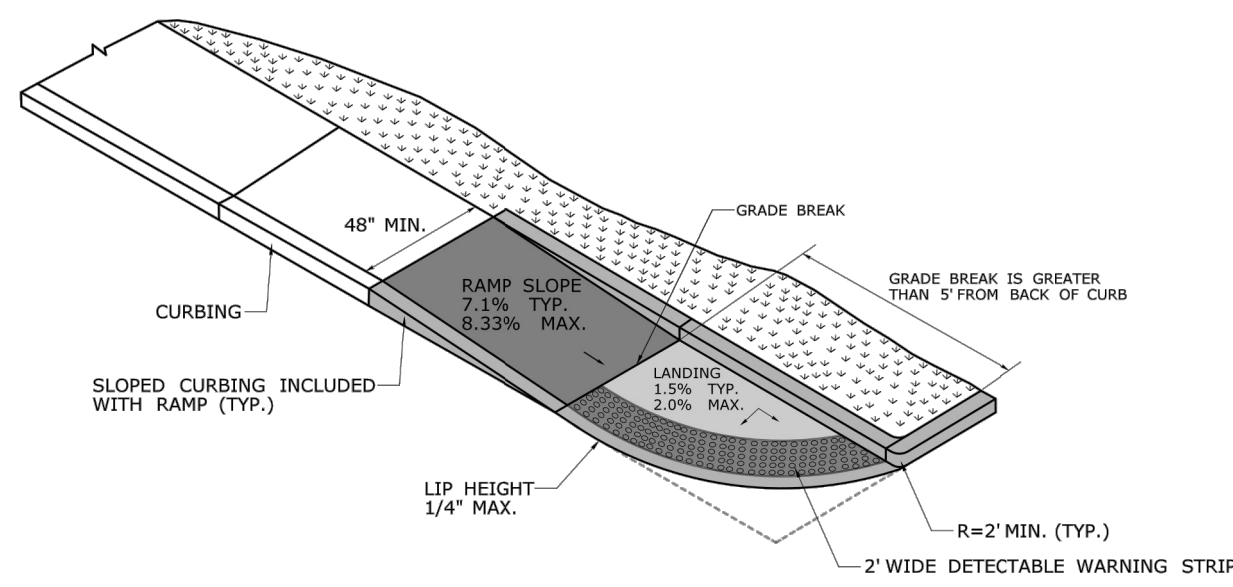
DRAWN: M. HARVALA	2/13/2015
CHECKED:	
REVISION:	DATE:
APPROVED:	
QUOTE:	
S.O.#	
REF:	SCALE: NONE

SOME GEOGRAPHICAL AREAS HAVE SPECIAL WIND CONDITIONS THAT CAN CREATE WIND INDUCED VIBRATIONS CAUSING A FATIGUE PROBLEM. NO METHOD HAS YET BEEN FOUND FOR PREDICTING DESTRUCTIVE LIGHTING POLE VIBRATION. THESE CONDITIONS ARE UNIQUE AND CANNOT BE GUARANTEED AGAINST, AND ARE THE RESPONSIBILITY OF A LOCAL SITE ENGINEER.

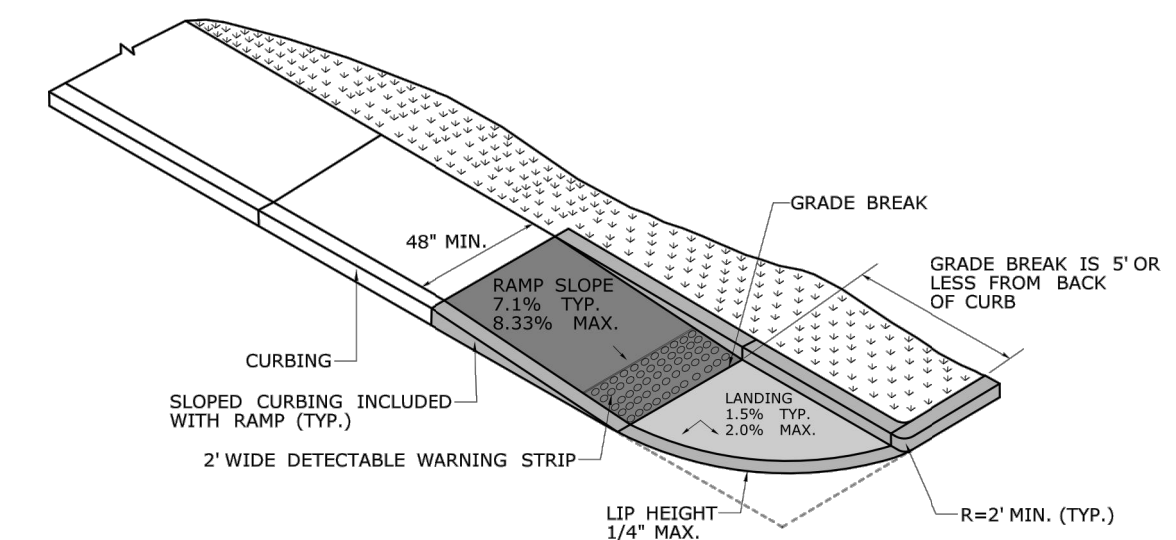
TITLE:
CATALOG:
DWG NO: **101-4011-18** SIZE: C SHEET 1 OF 1



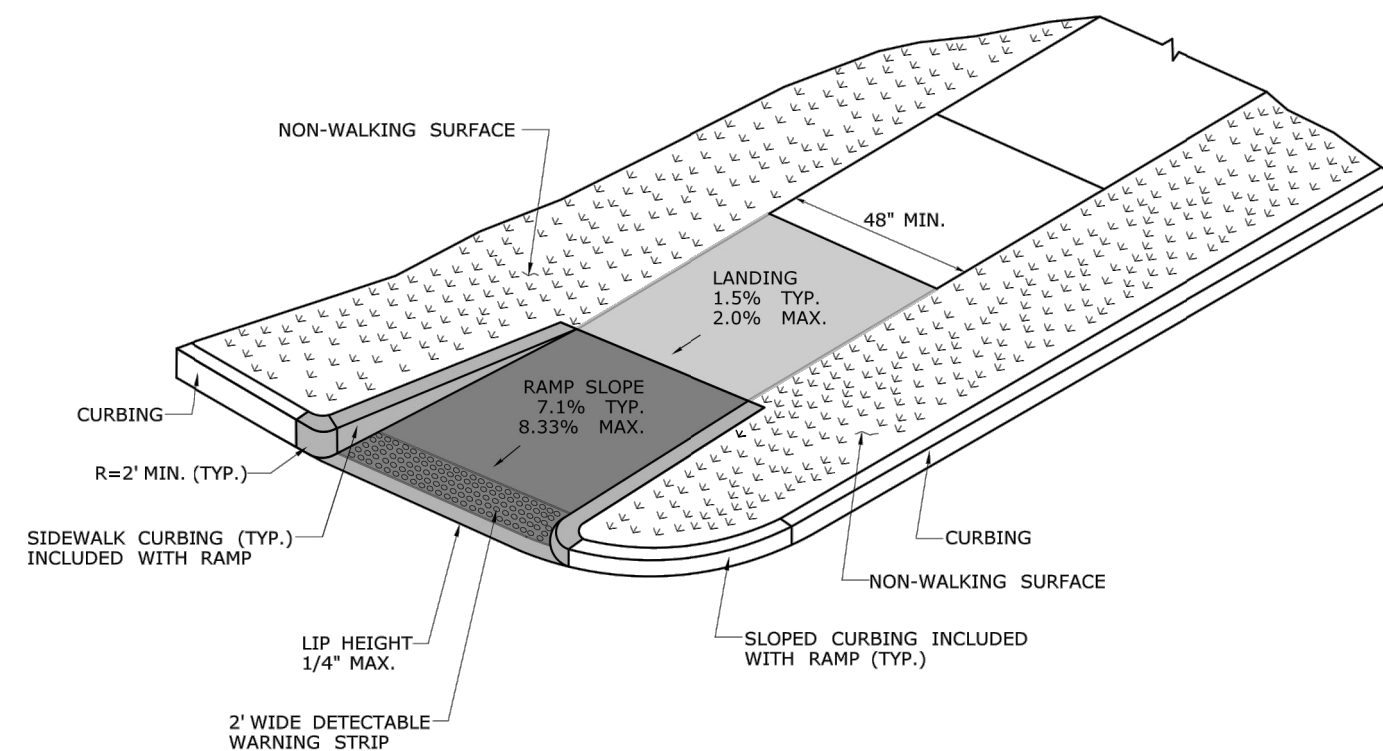
HANDHOLE



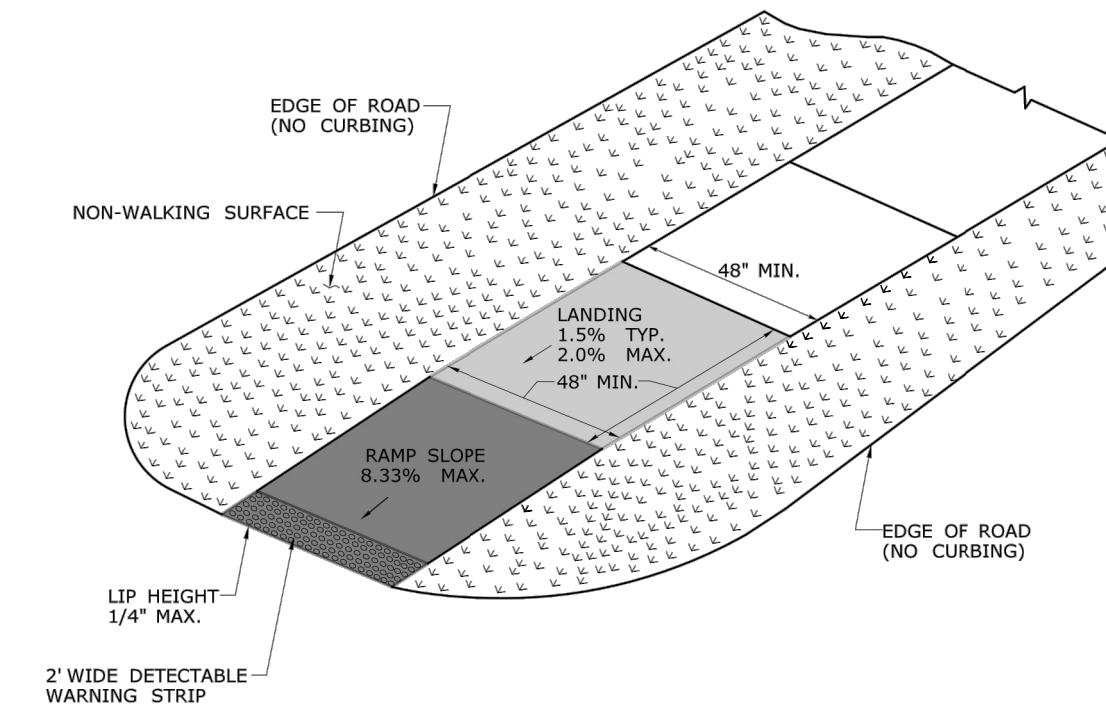
**SINGLE DIRECTION RAMP
WITHOUT NON-WALKING SURFACE
GRADE BREAK GREATER THAN 5'
(TYPE 14)**



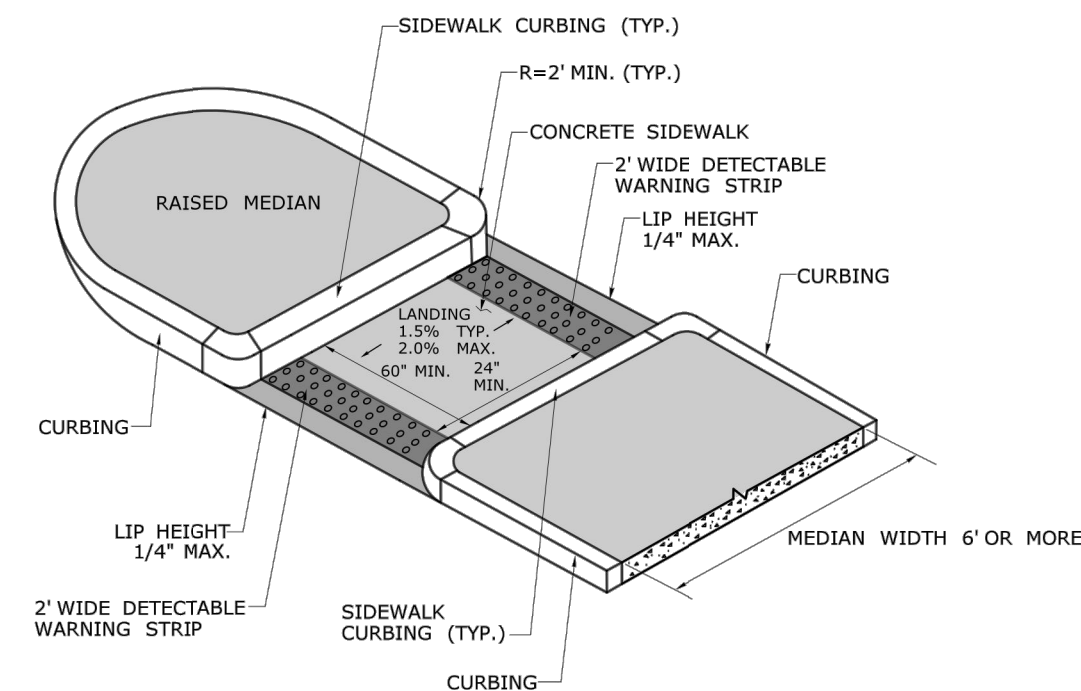
**SINGLE DIRECTION RAMP
WITHOUT NON-WALKING SURFACE
GRADE BREAK 5' OR LESS
(TYPE 15)**



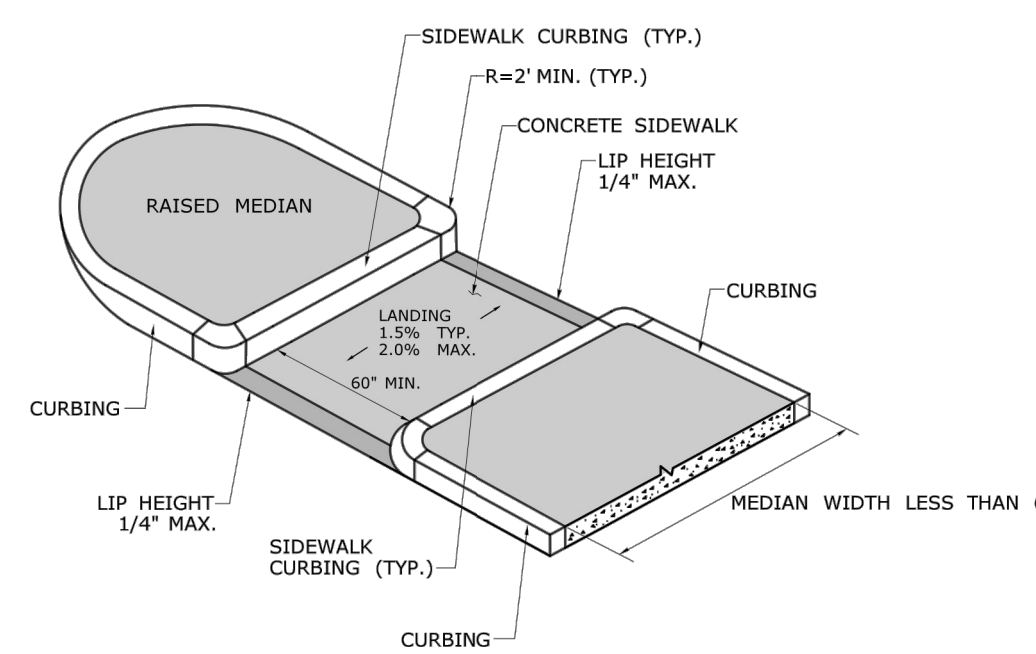
**SINGLE DIRECTION - RETURN CURB
WITH NON-WALKING SURFACE
(TYPE 16)**



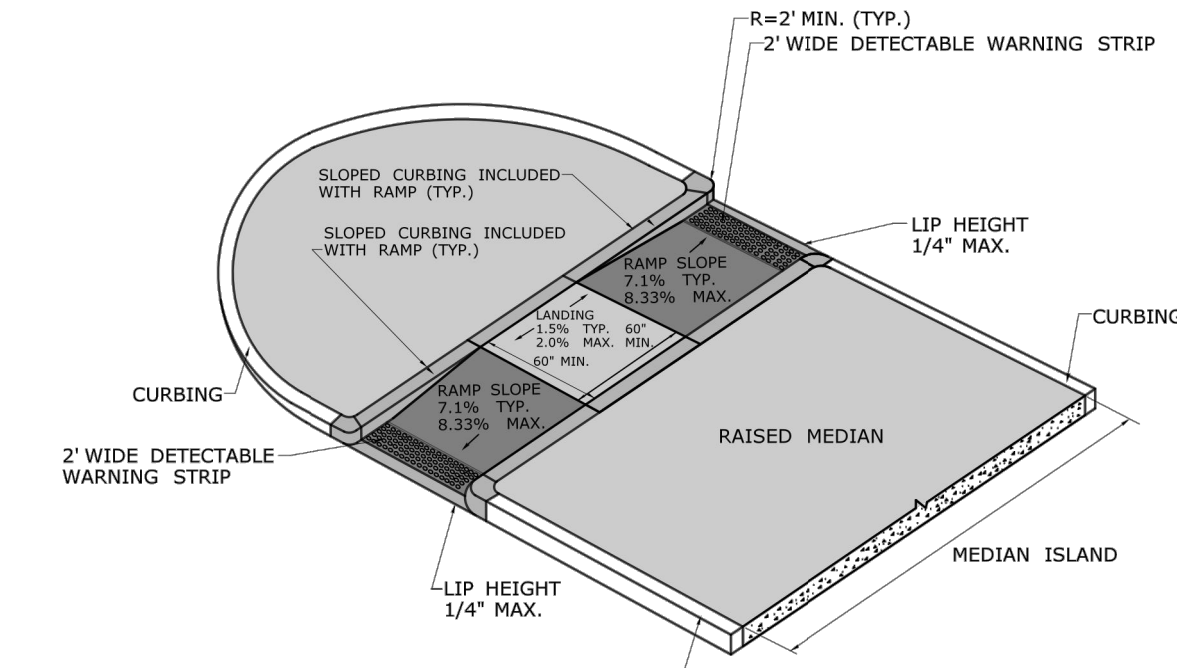
**SINGLE DIRECTION - NO CURB
WITH NON-WALKING SURFACE
(TYPE 17)**



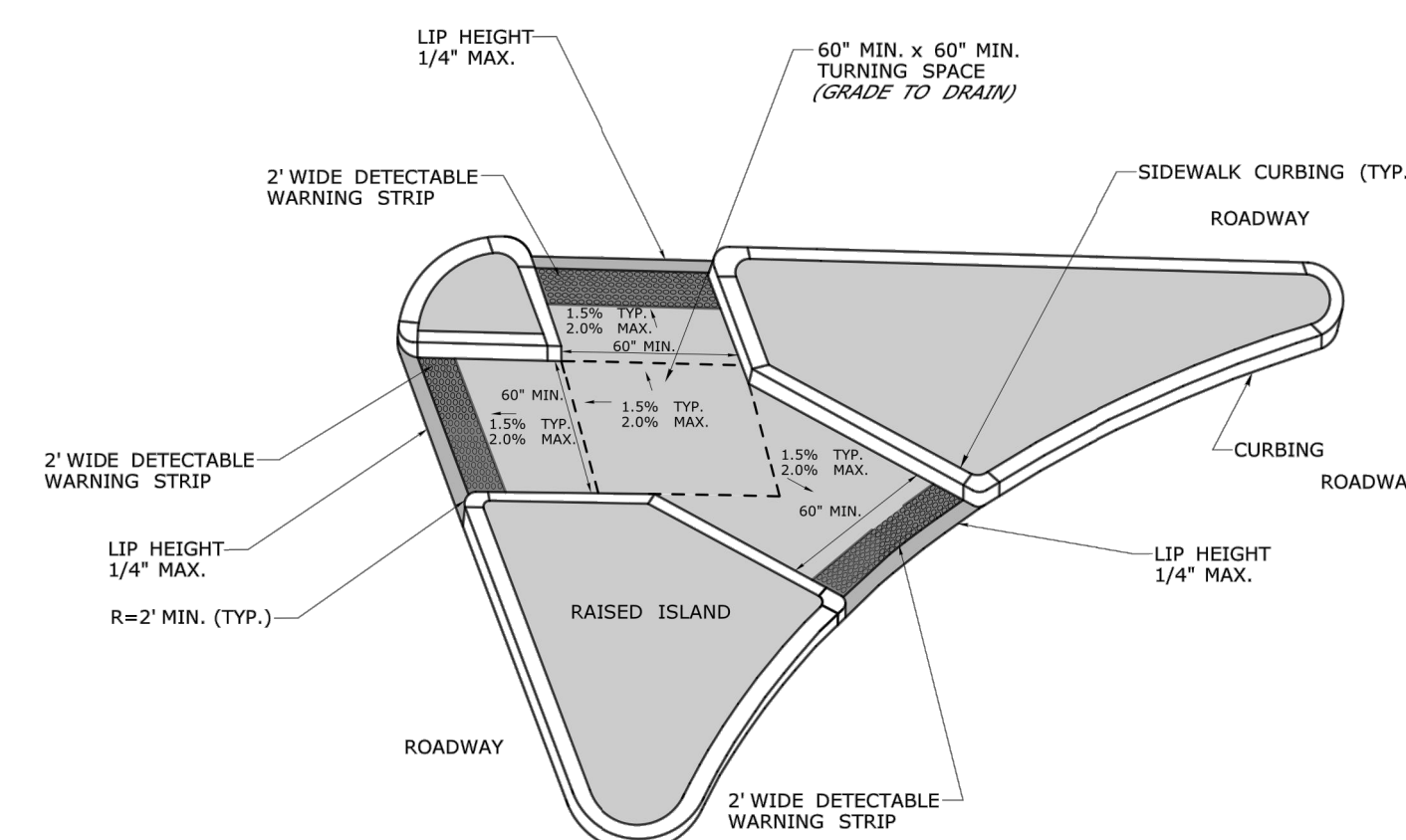
**CUT-THROUGH PEDESTRIAN REFUGE ISLAND
MEDIAN WIDTH 6' OR MORE
(TYPE 22)**



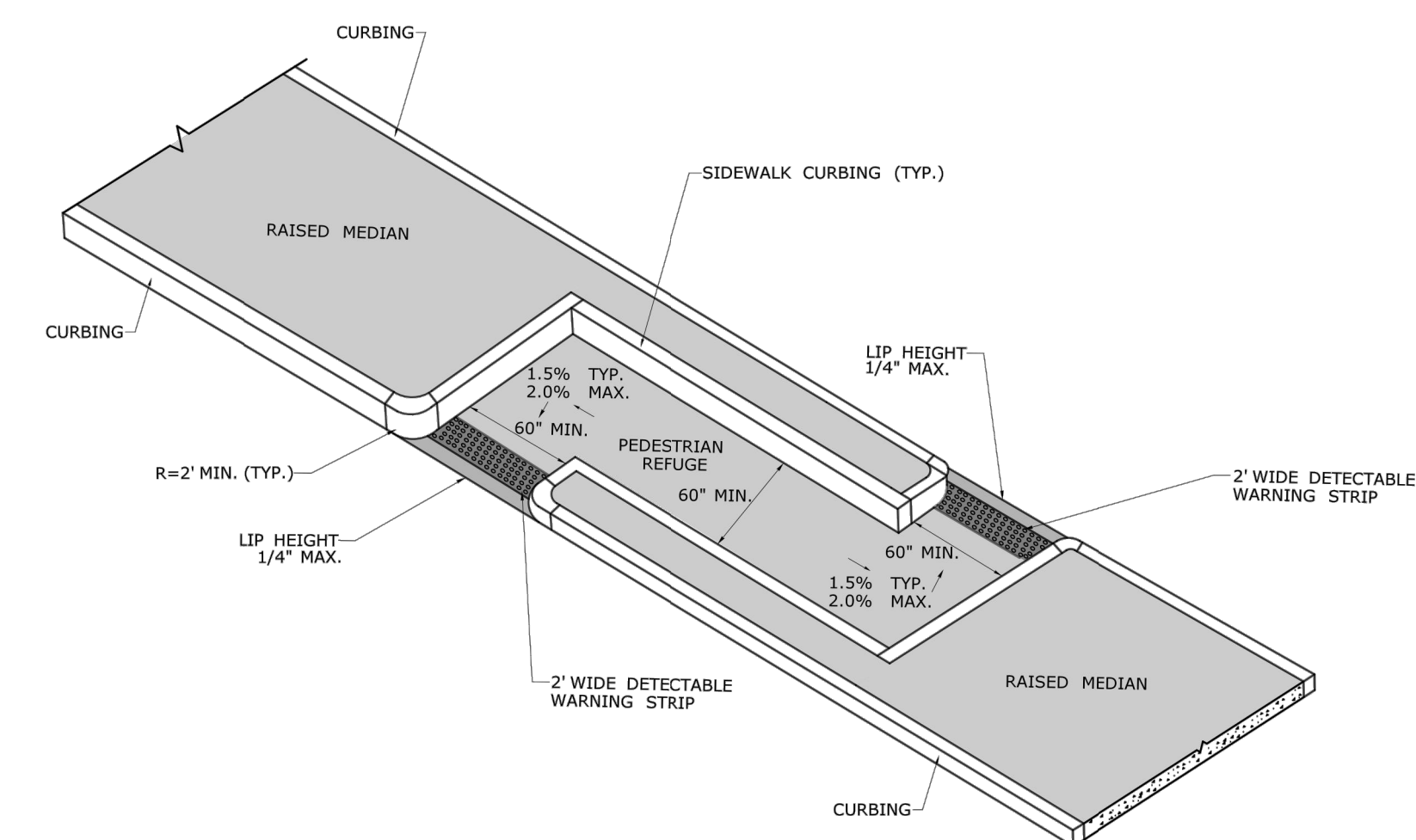
**CUT-THROUGH PEDESTRIAN REFUGE ISLAND
MEDIAN WIDTH LESS THAN 6'
(TYPE 23)**



**PEDESTRIAN REFUGE ISLAND WITH LANDING AND RAMPS
(TYPE 24)**



**CUT-THROUGH PEDESTRIAN REFUGE ISLAND
OFFSET CONFIGURATION
(TYPE 25)**



**CUT-THROUGH PEDESTRIAN REFUGE ISLAND
OFFSET CONFIGURATION
(TYPE 26)**


**Proposed Commercial
Development**
1263 Hopmeadow Street
Simsbury, Connecticut

No.	Revision	Date	Apprv.
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Designed by _____ Checked by _____
Issued for _____ Date _____
Local Approvals May 26, 2023

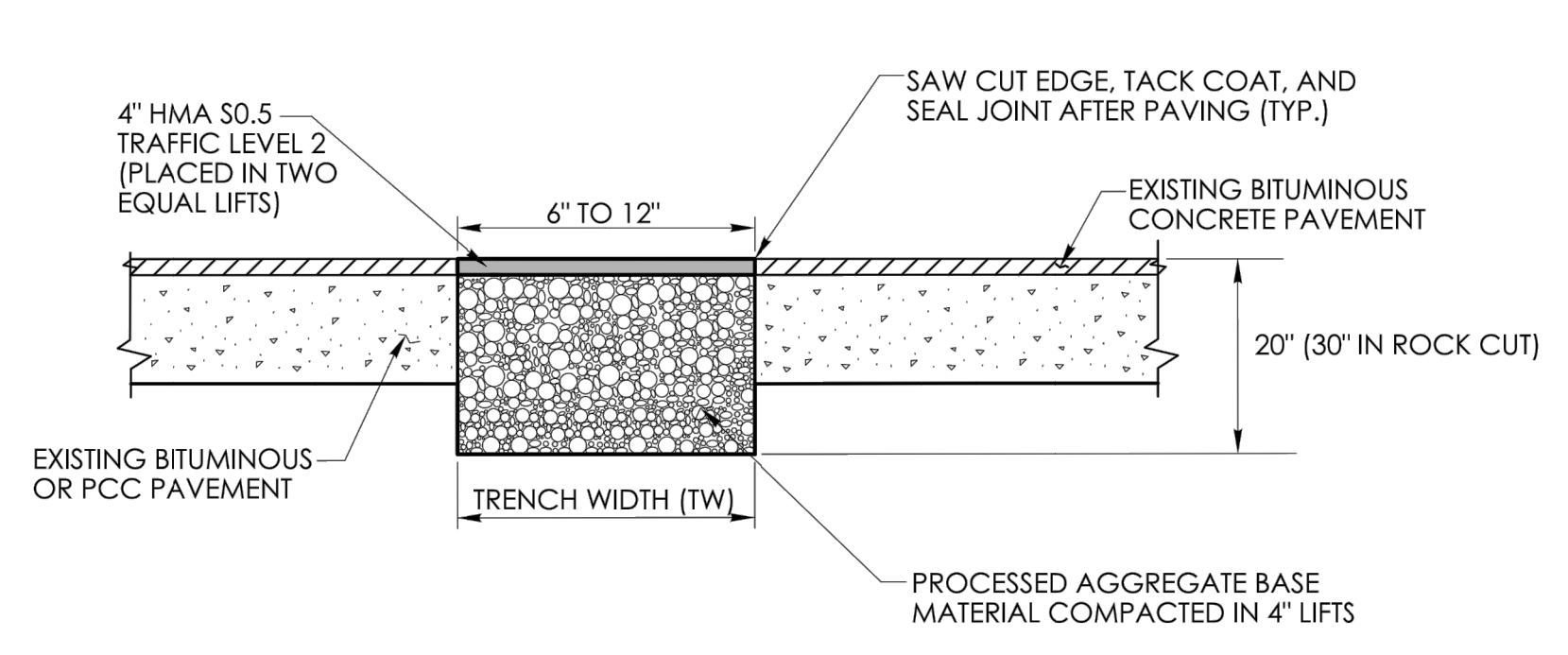
Site Details

Drawing Number _____

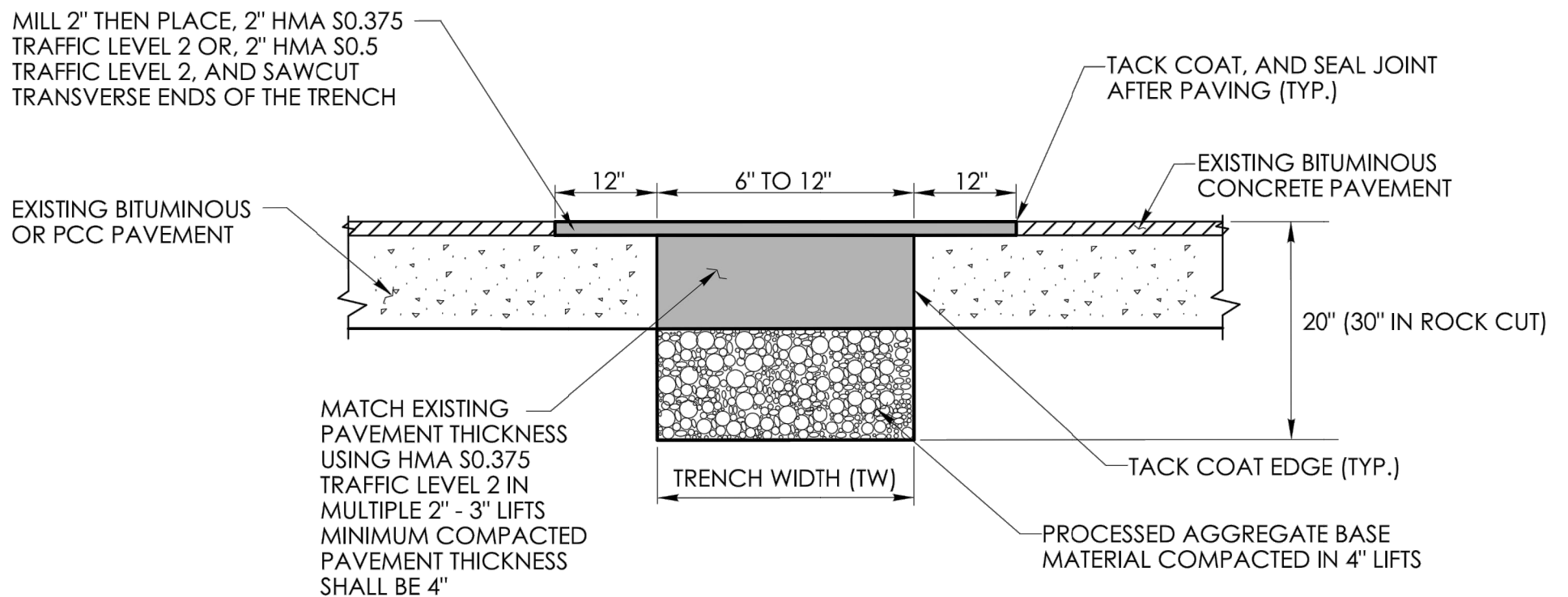


C-11

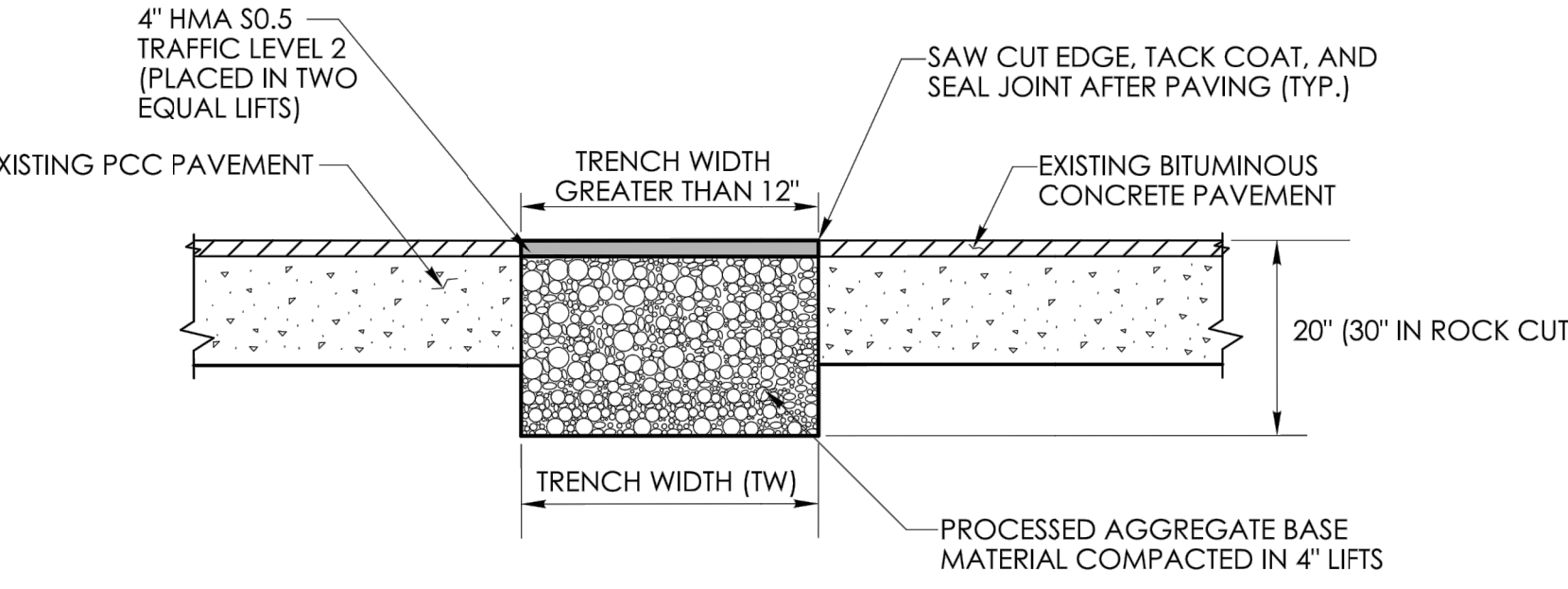
Project Number
42810.00



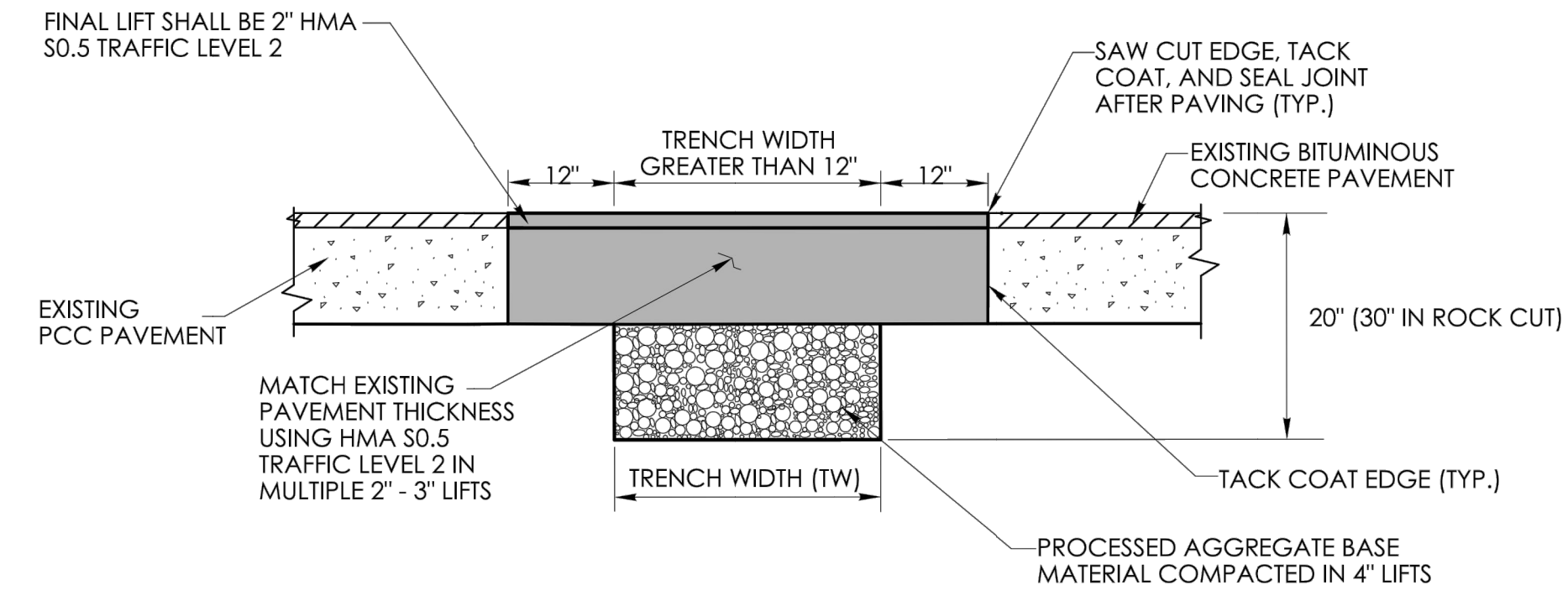
TEMPORARY PAVEMENT - FOR NARROW TRENCH THROUGH BITUMINOUS CONCRETE OR OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH BETWEEN 6" AND 12")



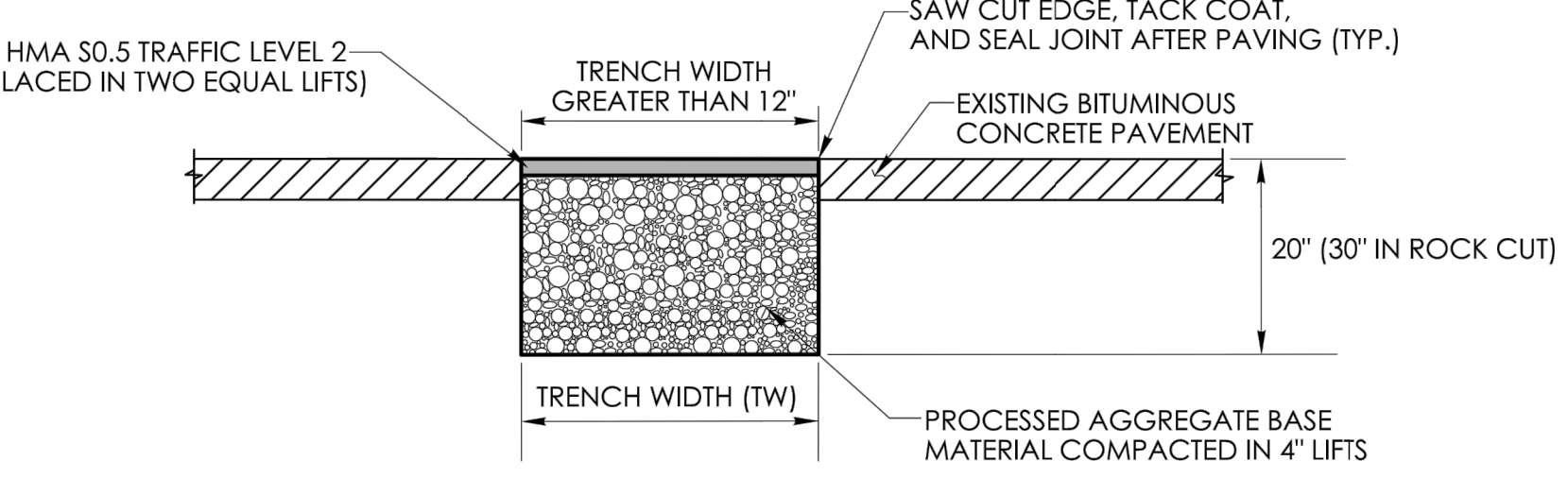
PERMANENT PAVEMENT - FOR NARROW TRENCH THROUGH BITUMINOUS CONCRETE OR OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH BETWEEN 6" AND 12")



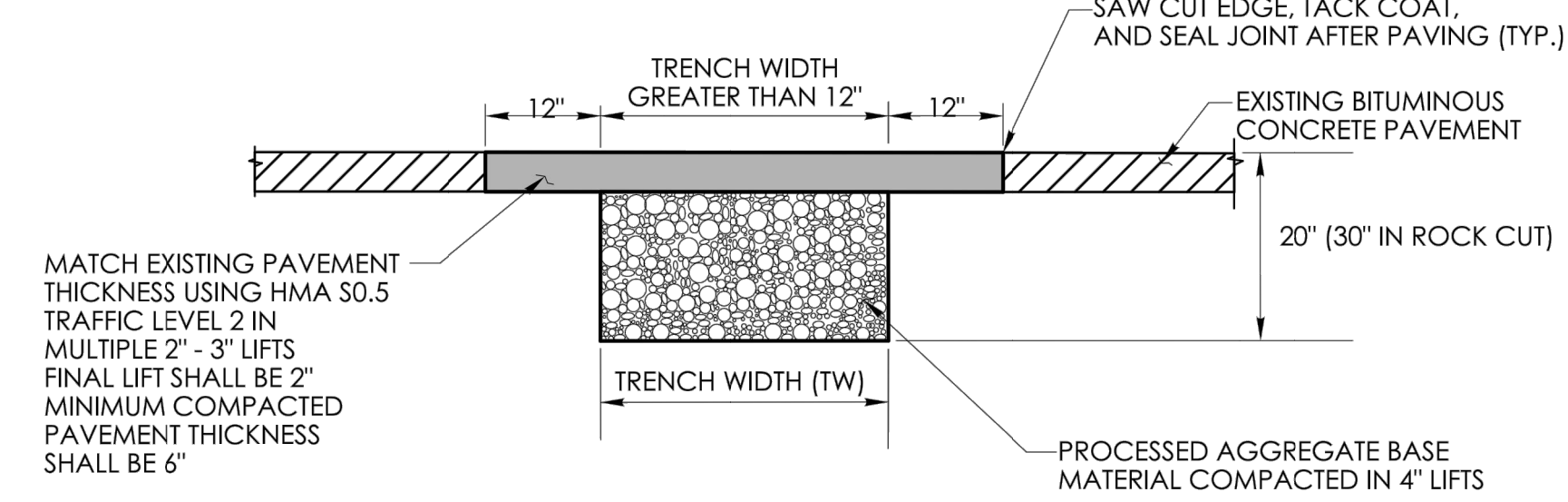
TEMPORARY PAVEMENT FOR TRENCH THROUGH OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH GREATER THAN 12")



PERMANENT PAVEMENT FOR TRENCH THROUGH OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH GREATER THAN 12")



TEMPORARY PAVEMENT FOR TRENCH THROUGH BITUMINOUS CONCRETE (TRENCH WIDTH GREATER THAN 12")



PERMANENT PAVEMENT FOR TRENCH THROUGH BITUMINOUS CONCRETE

GENERAL NOTES:

1. LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT:

A. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE SLAB CENTERLINE AND THE EDGE OF SLAB, REMOVE CONCRETE AND BITUMINOUS CONCRETE PAVEMENT FROM THE TRENCH EDGE TO THE EDGE OF ROAD. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE LONGITUDINAL JOINT AND THE SLAB CENTERLINE, REMOVE THE ENTIRE CONCRETE SLAB AND BITUMINOUS CONCRETE PAVEMENT TO THE EDGE OF ROAD. IN EITHER CASE REBUILD WITH THE FOLLOWING:

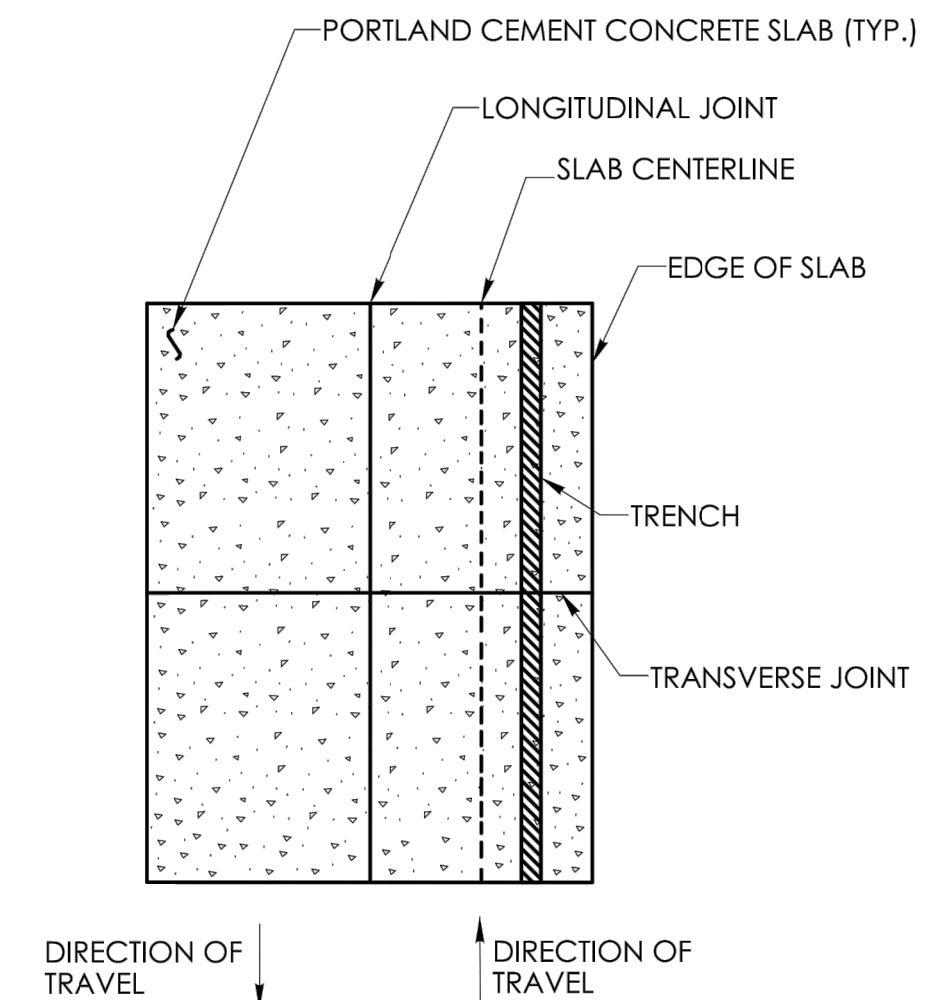
- a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
- b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"

2. TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT:

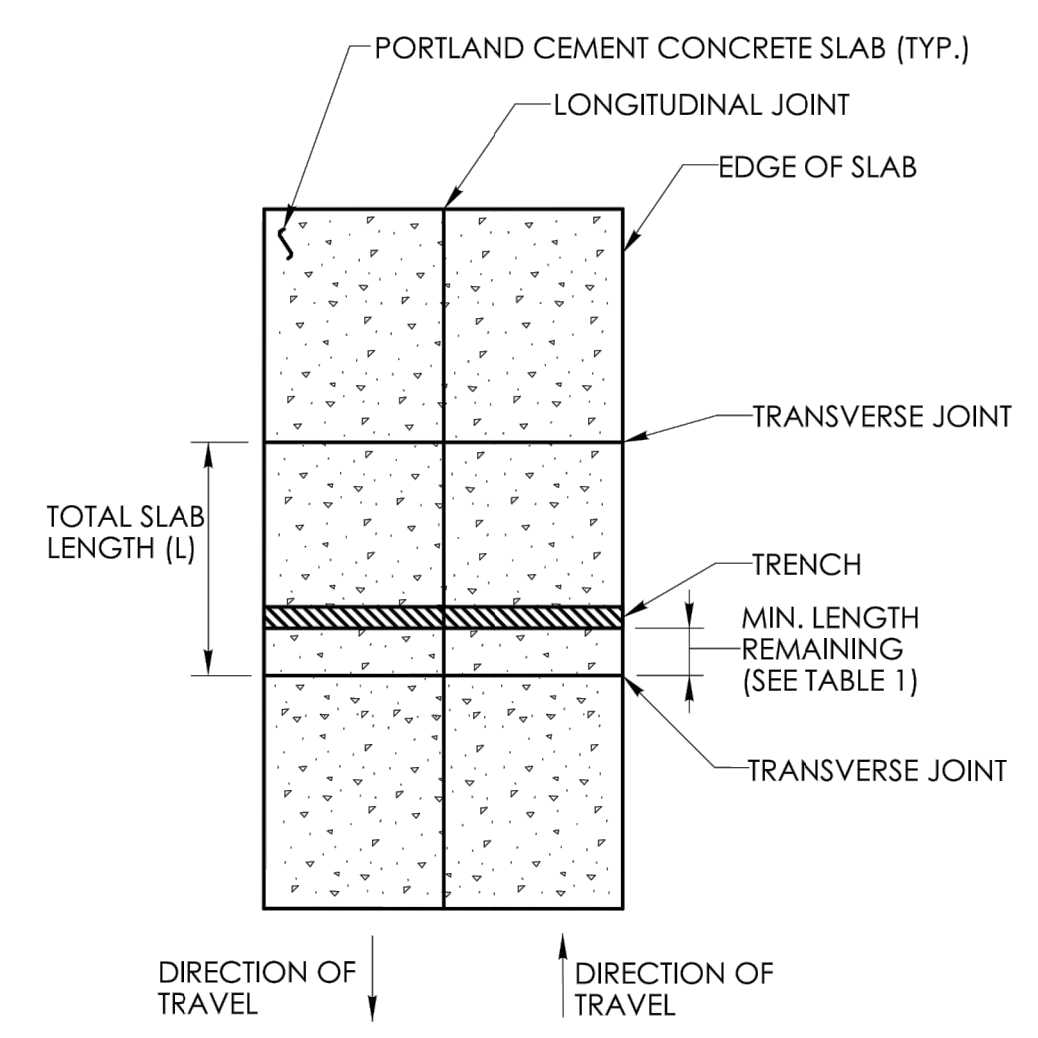
TABLE 1	
TOTAL SLAB LENGTH (L)	MIN. LENGTH REMAINING
40' OR LONGER	1/4 L
15' - 40'	10'
15' OR SHORTER	REBUILD TO NEAREST JOINT

A. FOR TRANSVERSE TRENCHES, THE MINIMUM SLAB LENGTH AS SHOWN IN TABLE 1 SHALL BE LEFT IN PLACE TO THE NEAREST TRANSVERSE JOINT. IF THIS CRITERIA CANNOT BE MET, THE EXISTING SLAB AREA FROM THE TRENCH EDGE TO THE NEAREST TRANSVERSE JOINT SHALL BE REMOVED AND REBUILT AS FOLLOWS:

- a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
- b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"



LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT (SEE NOTE 1)



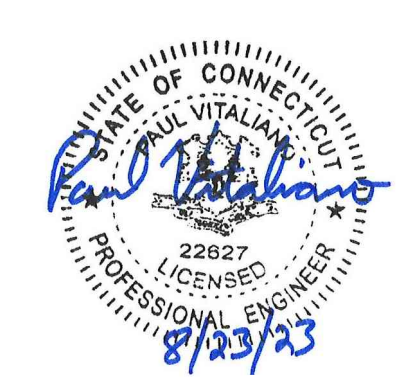
TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT (SEE NOTE 2)

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Simsbury, Connecticut

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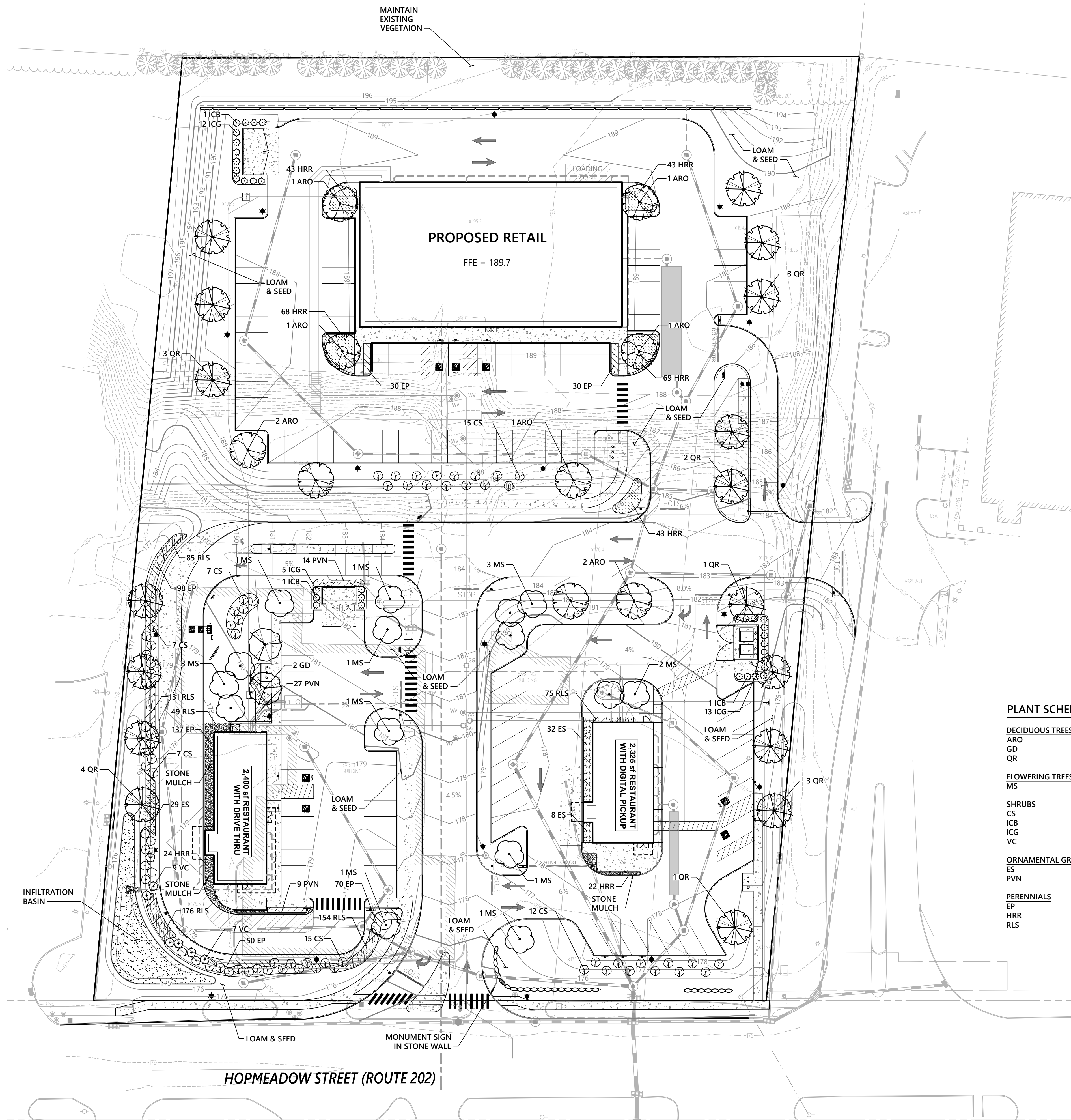
Site Details



C-12



100 Great Meadow Road
Suite 200
Wethersfield, CT 06109
860.807.4300

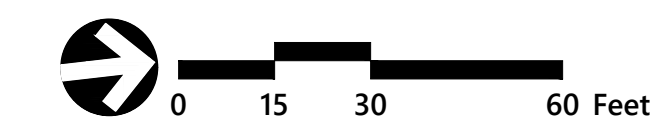


Planting Notes

1. ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL BELOW GRADE AND ABOVE GROUND UTILITIES AND NOTIFY OWNERS REPRESENTATIVE OF CONFLICTS.
3. NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY CONFLICT.
4. A 3-INCH DEEP MULCH PER SPECIFICATION SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
5. ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR SPECIFICATION, OR APPROVED BY THE OWNER'S REPRESENTATIVE.
6. FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS GRAPHICALLY SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN LIST AND PLANT LABELS PRIOR TO BIDDING.
7. ANY PROPOSED PLANT SUBSTITUTIONS MUST BE REVIEWED BY LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
8. ALL PLANT MATERIALS INSTALLED SHALL MEET THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND CONTRACT DOCUMENTS.
9. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
10. AREAS DESIGNATED "LOAM & SEED" SHALL RECEIVE MINIMUM 6" OF LOAM AND SPECIFIED SEED MIX. LAWNS OVER 2:1 SLOPE SHALL BE PROTECTED WITH EROSION CONTROL FABRIC.
11. ALL DISTURBED AREAS NOT OTHERWISE NOTED ON CONTRACT DOCUMENTS SHALL BE LOAM AND SEEDED OR MULCHED AS DIRECTED BY OWNER'S REPRESENTATIVE.
12. THIS PLAN IS INTENDED FOR PLANTING PURPOSES. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.

Plant Maintenance Notes

1. CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE LAWNS AND PLANTINGS. NO IRRIGATION IS PROPOSED FOR THIS SITE. THE CONTRACTOR SHALL SUPPLY SUPPLEMENTAL WATERING FOR NEW LAWNS AND PLANTINGS DURING THE ONE YEAR PLANT GUARANTEE PERIOD.
2. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. WATER SHALL BE PROVIDED BY THE CONTRACTOR.
3. WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
4. WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
5. CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS AT THE END OF THE ONE YEAR GUARANTEE PERIOD. CONTRACTOR SHALL TURN OVER MAINTENANCE TO THE FACILITY MAINTENANCE STAFF AT THAT TIME.



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PLANT SCHEDULE

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
ARO	9	Acer rubrum 'October Glory'	October Glory Maple	2 1/2 - 3" CAL	
GD	2	Gymnocladus dioica 'Prairie Titan'	Prairie Titan® Kentucky Coffeetree	2 1/2 - 3" CAL	
QR	17	Quercus rubra	Red Oak	2 1/2 - 3" CAL	
FLOWERING TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
MS	15	Malus hybrid 'Spring Snow'	Spring Snow Crab Apple	2 - 3" CAL.	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
CS	63	Cornus sericea 'Arctic Fire'	Arctic Fire Red Twig Dogwood	24 - 30" HT.	
ICB	3	Ilex x meserveae 'China Boy'	China Boy® Holly	18 - 24" HT.	
ICG	30	Ilex x meserveae 'China Girl'	China Girl® Holly	18 - 24" HT.	
VC	16	Vaccinium corymbosum	Highbush Blueberry	2 - 3" HT.	
ORNAMENTAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
ES	69	Eragrostis spectabilis	Purple Lovegrass	2 GAL.	
PVN	50	Panicum virgatum 'Northwind'	Northwind Switch Grass	2 GAL.	
PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
EP	415	Echinacea purpurea	Coneflower	2 GAL.	18" o.c.
HRR	290	Hemerocallis x 'Rosy Returns'	Rosy Returns Daylily	1 GAL.	24" o.c.
RLS	670	Rudbeckia fx 'Little Suzy'	Little Suzy Coneflower	1 GAL.	12" o.c.

Seed Mixtures:

1. AREAS INDICATED AS "DETENTION BASIN" ARE TO BE SEEDED WITH NEW ENGLAND EROSION CONTROL / RESTORATION MIX FOR DETENTION PONDS AND MOIST AREAS, AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. AMHERST, MA (413) 548-8000, WWW.NEWP.COM, OR AN APPROVED EQUAL. APPLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

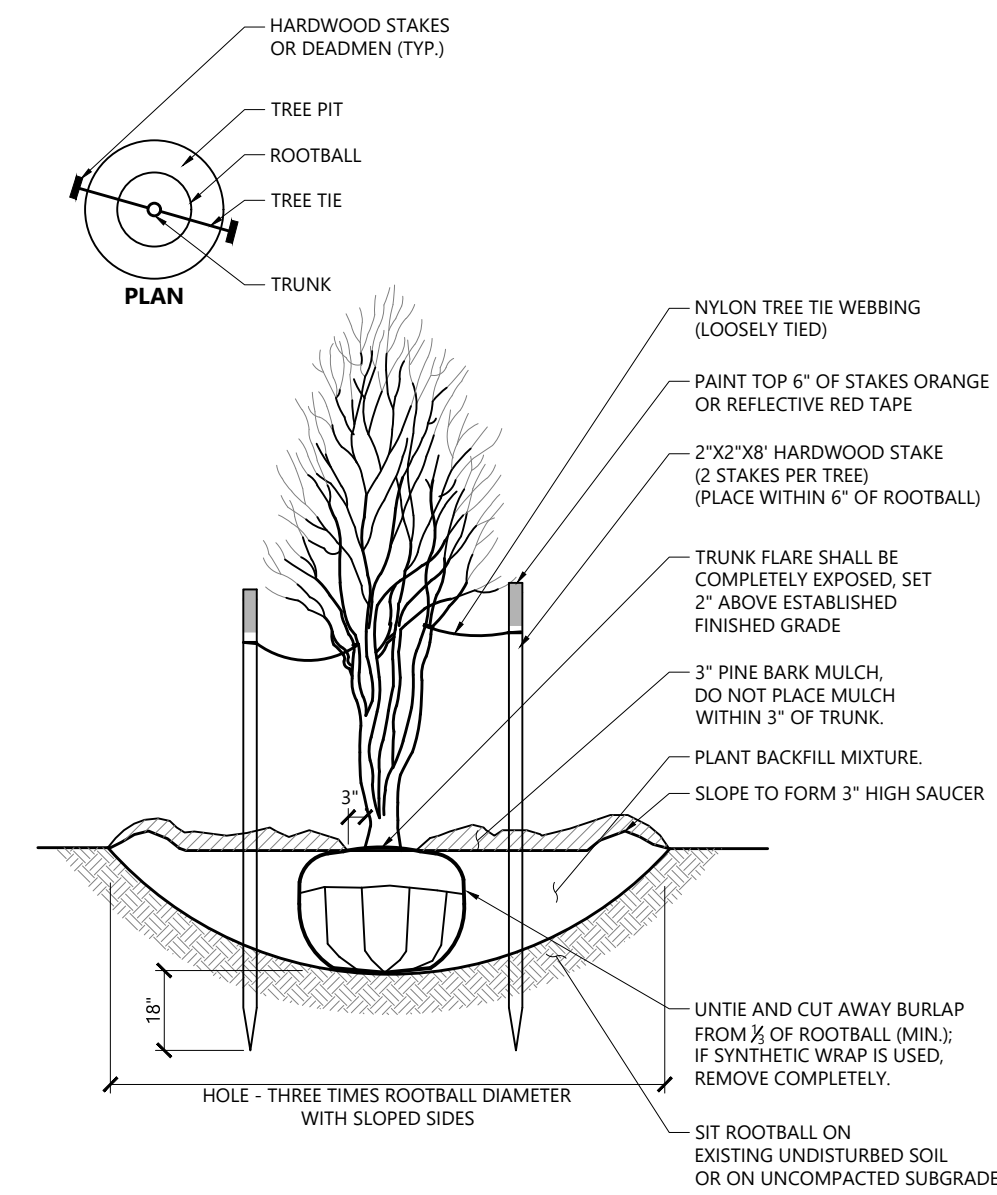
Planting Plan



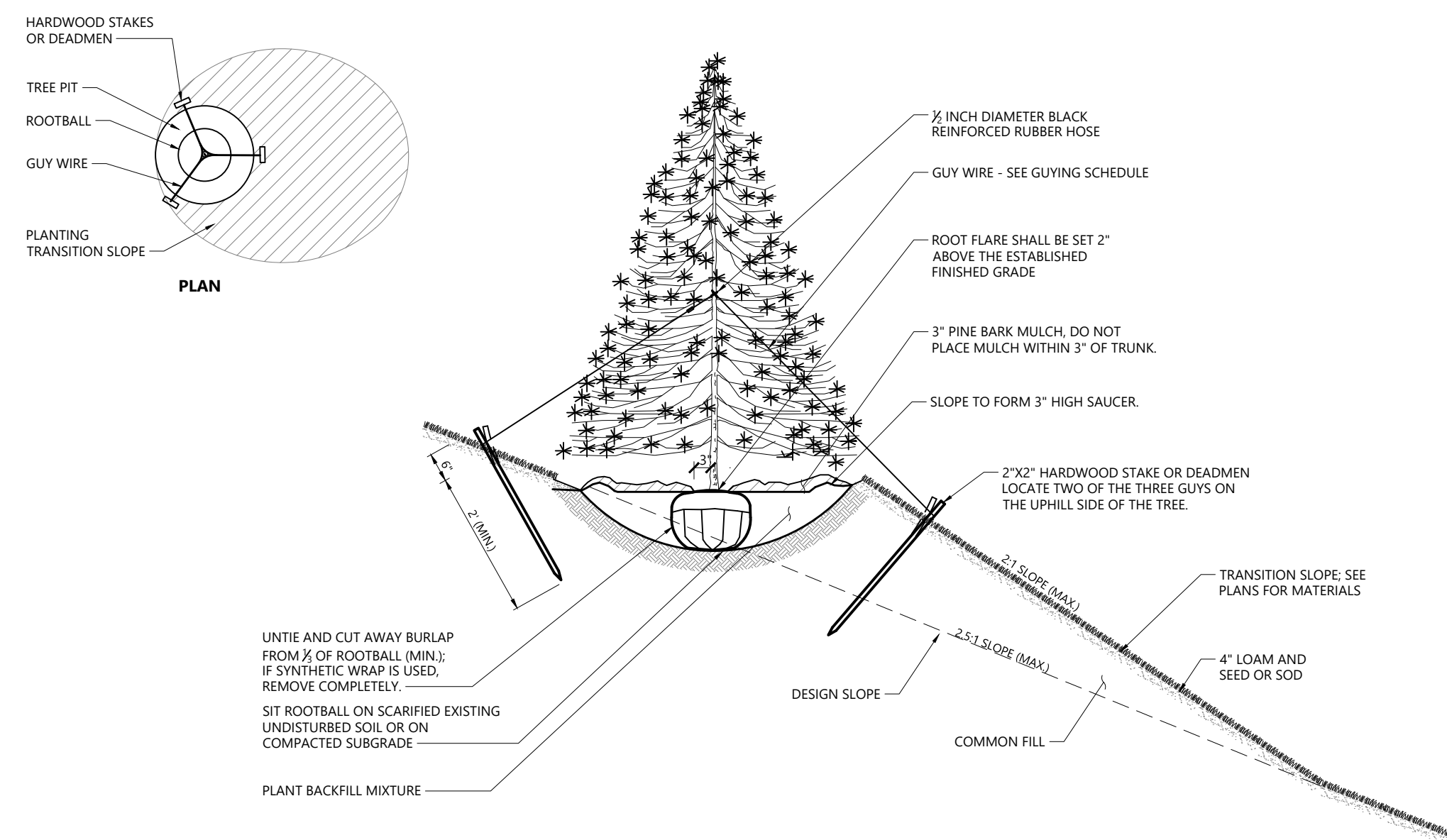
L-1



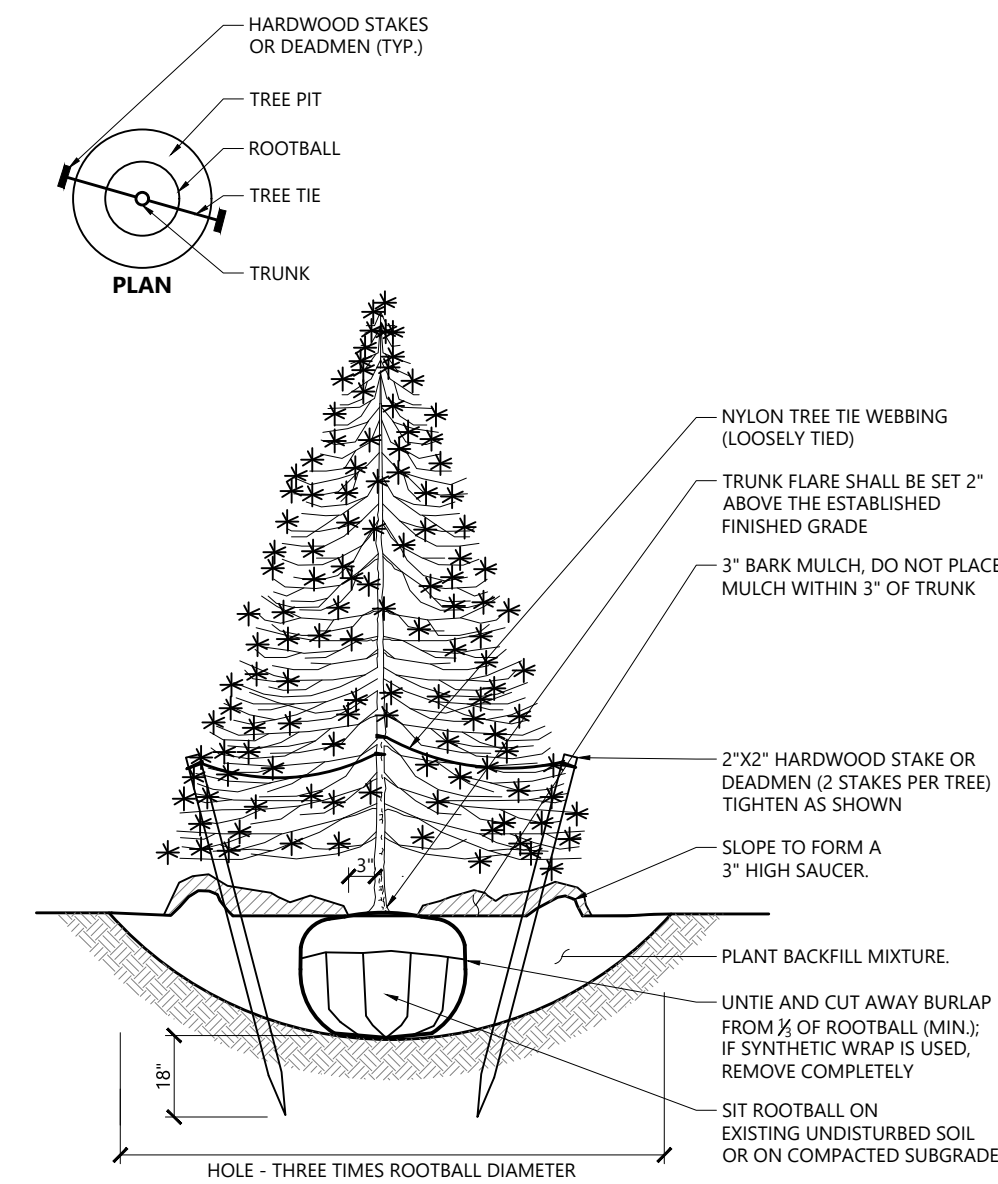
100 Great Meadow Road
Suite 200
Wethersfield, CT 06109
860.807.4300



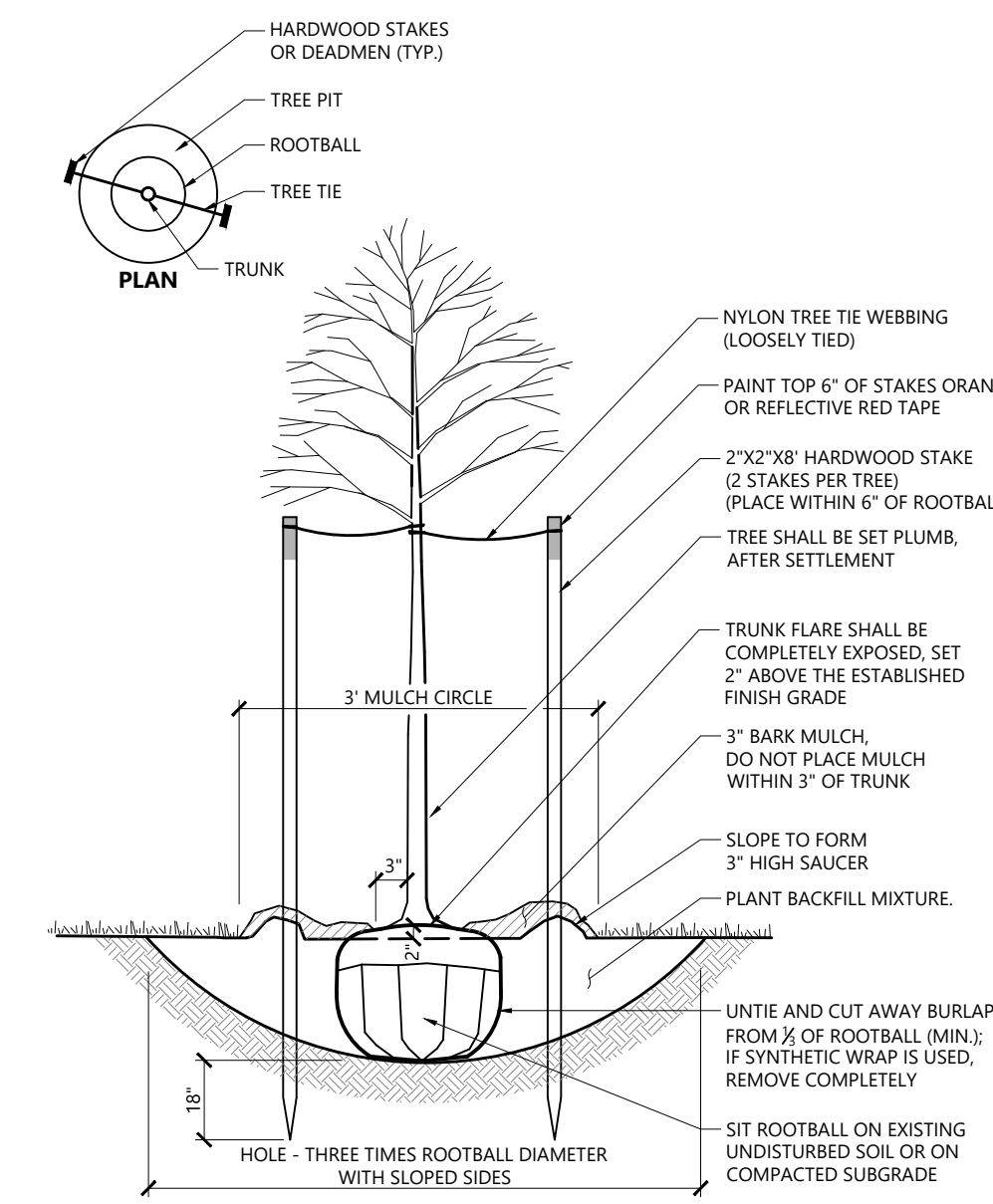
Multistem Tree Planting 9/21
N.T.S. Source: VHB LD_606



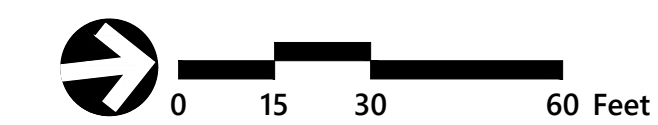
Tree Planting on Slope 1/16
N.T.S. Source: VHB LD_605



Evergreen Tree Planting 9/21
N.T.S. Source: VHB LD_604



Tree Planting (For Trees Under 4\"/>



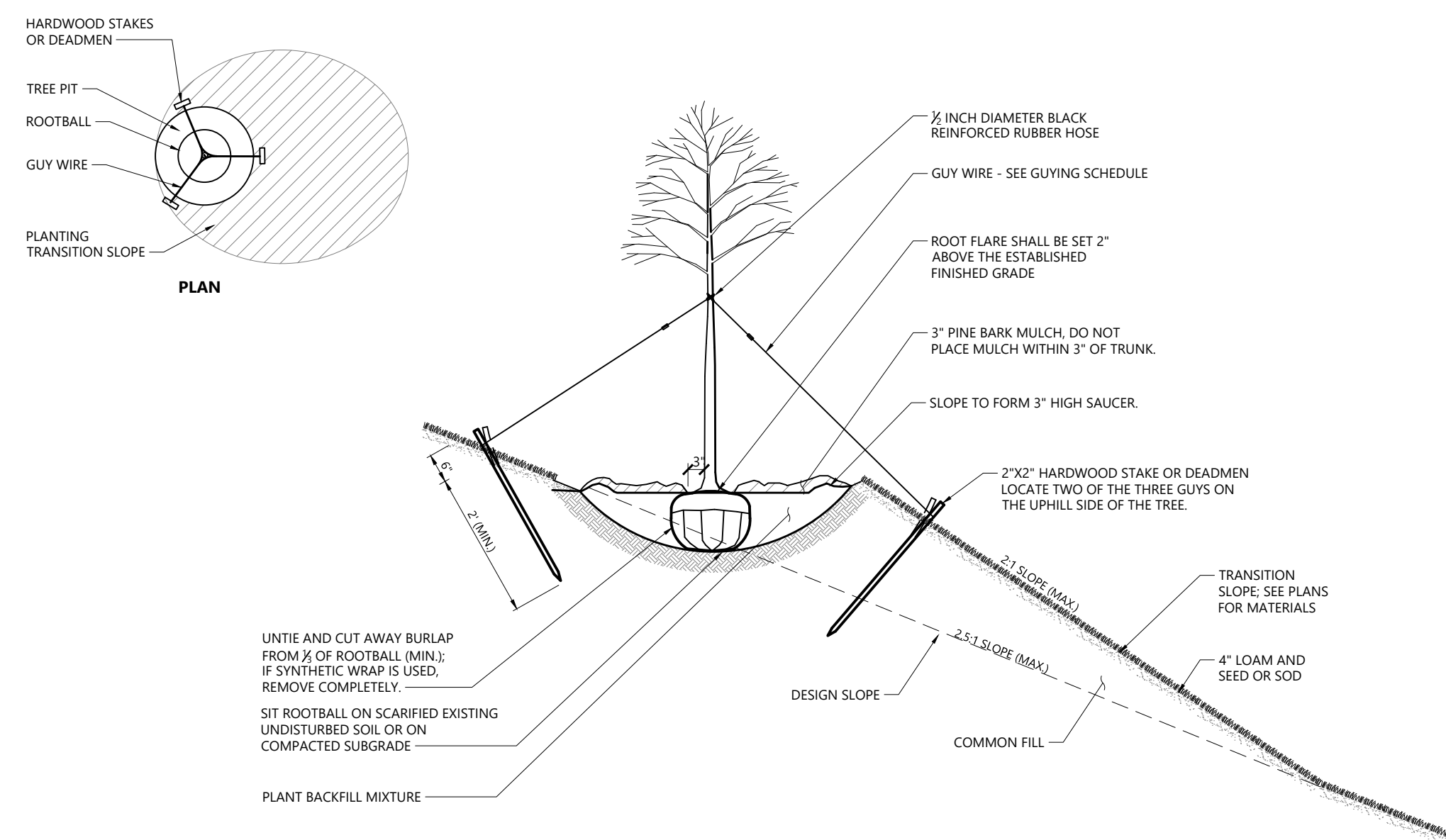
Proposed Commercial Development
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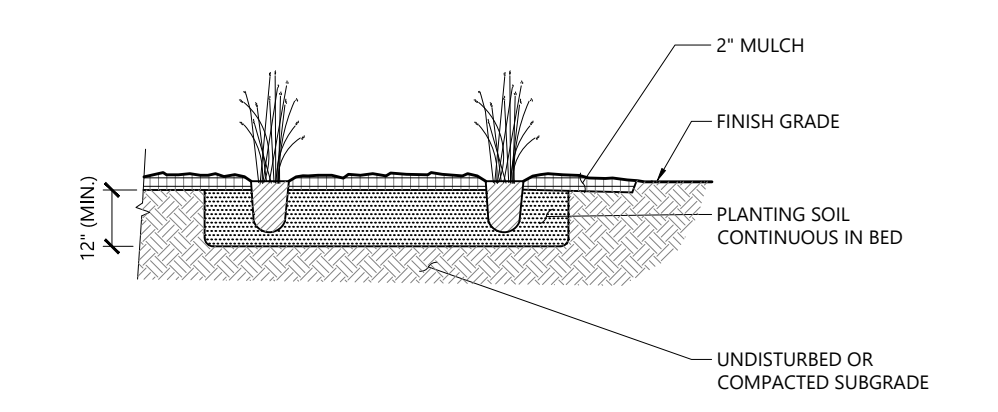
Drawing Title
Planting Details
Drawing Number _____



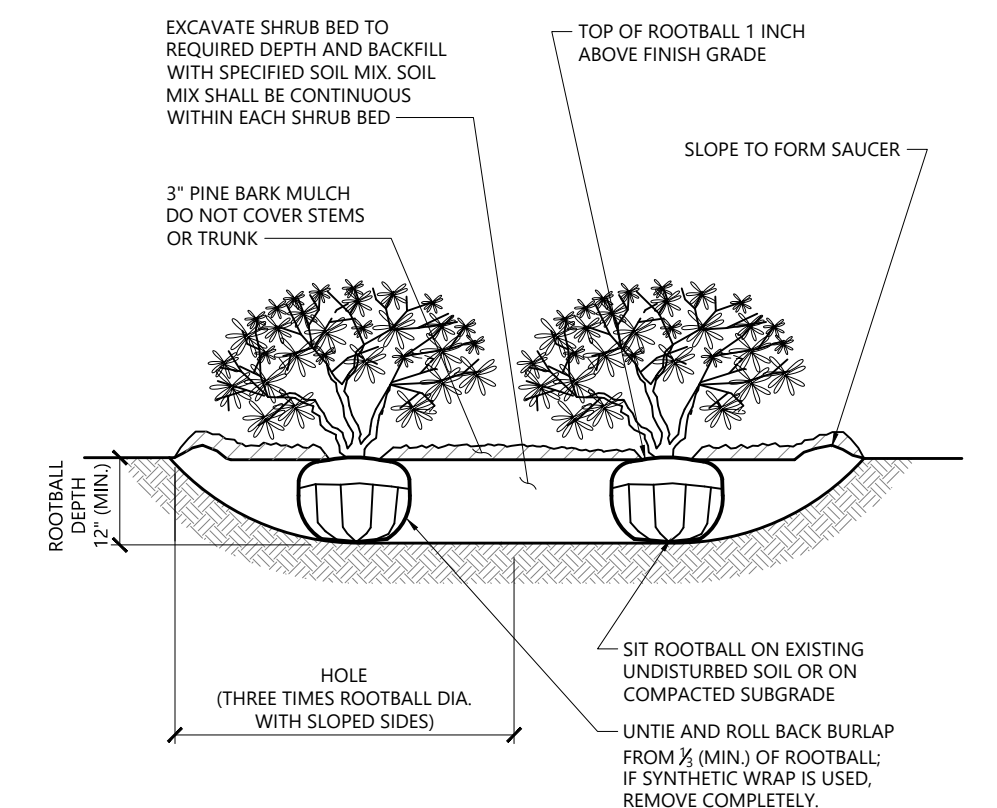
Tree Planting on Slope 5/17
N.T.S. Source: VHB LD_605d

PLANT SPACING

PLANT SPACING ("A")	ROW SPACING ("B")
6 IN. O.C.	5 IN. O.C.
8 IN. O.C.	7 IN. O.C.
10 IN. O.C.	8 1/2 IN. O.C.
12 IN. O.C.	10 1/2 IN. O.C.
15 IN. O.C.	13 IN. O.C.
18 IN. O.C.	16 IN. O.C.
24 IN. O.C.	21 IN. O.C.
30 IN. O.C.	26 IN. O.C.
36 IN. O.C.	30 IN. O.C.
48 IN. O.C.	42 IN. O.C.
54 IN. O.C.	48 IN. O.C.
60 IN. O.C.	54 IN. O.C.



Perennial and Ornamental Grass Planting 1/16
N.T.S. Source: VHB LD_618

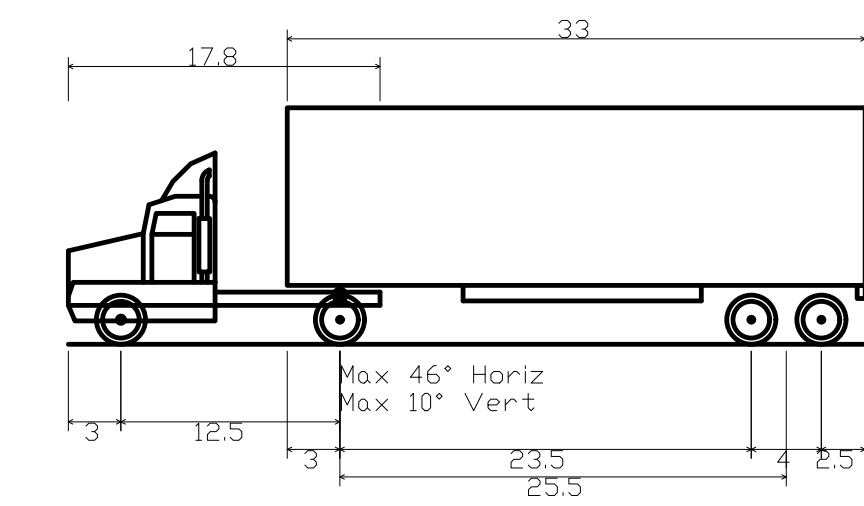
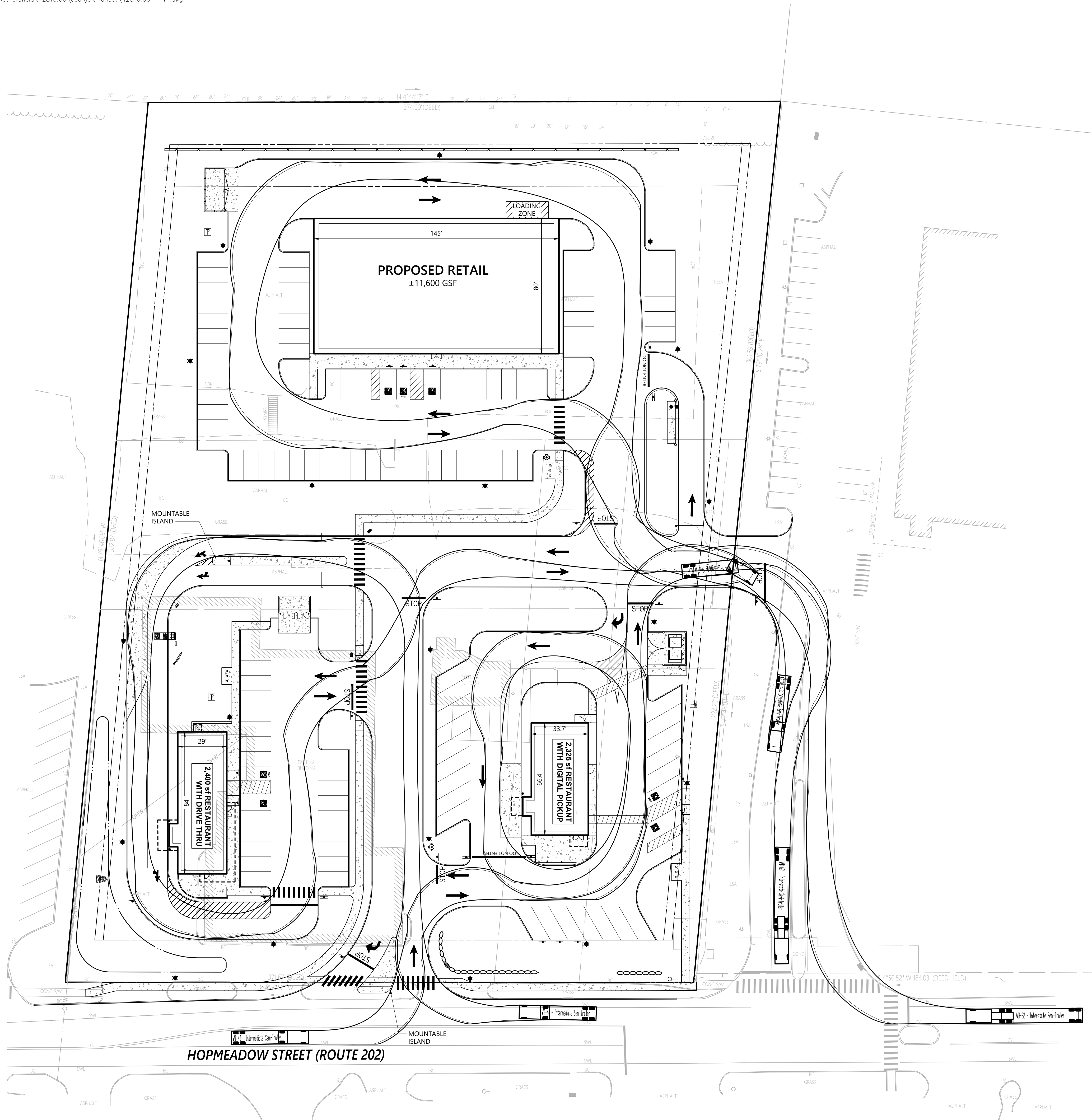


NOTES
1. LOOSEN ROOTS AT THE OUTER EDGE OF ROOTBALL OF CONTAINER GROWN SHRUBS.

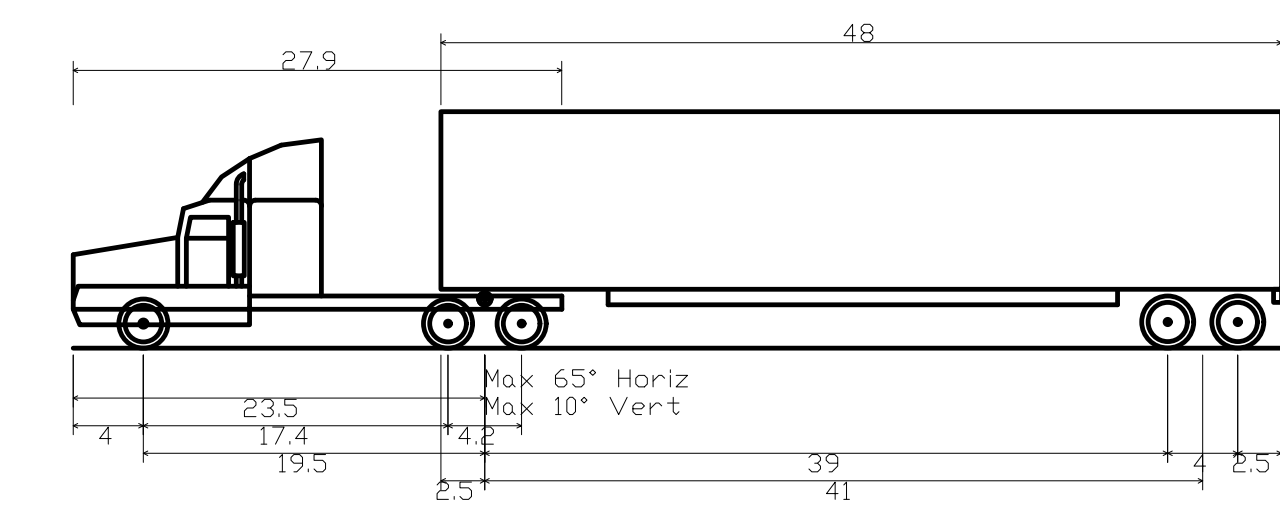
Shrub Bed Planting 1/16
N.T.S. Source: VHB LD_601



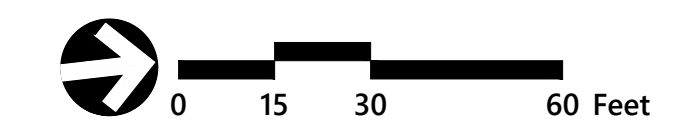
L-2



WB-40 - Intermediate Semi-Trailer
 Overall Length 45.499ft
 Overall Width 8.000ft
 Overall Body Height 13.500ft
 Min Body Ground Clearance 1.334ft
 Track Width 8.000ft
 Lock-to-lock time 4.00s
 Max Steering Angle (Virtual) 20.30°



WB-62 - Interstate Semi-Trailer
 Overall Length 69.000ft
 Overall Width 8.500ft
 Overall Body Height 13.500ft
 Min Body Ground Clearance 1.334ft
 Max Track Width 8.500ft
 Lock-to-lock time 6.00s
 Max Steering Angle (Virtual) 28.40°



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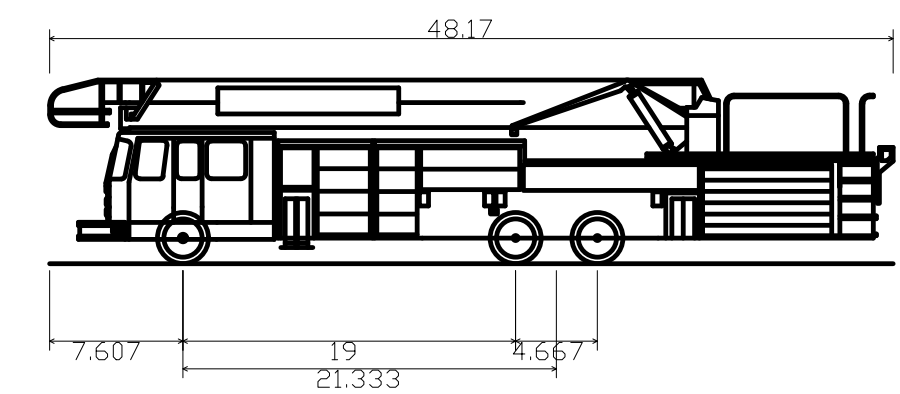
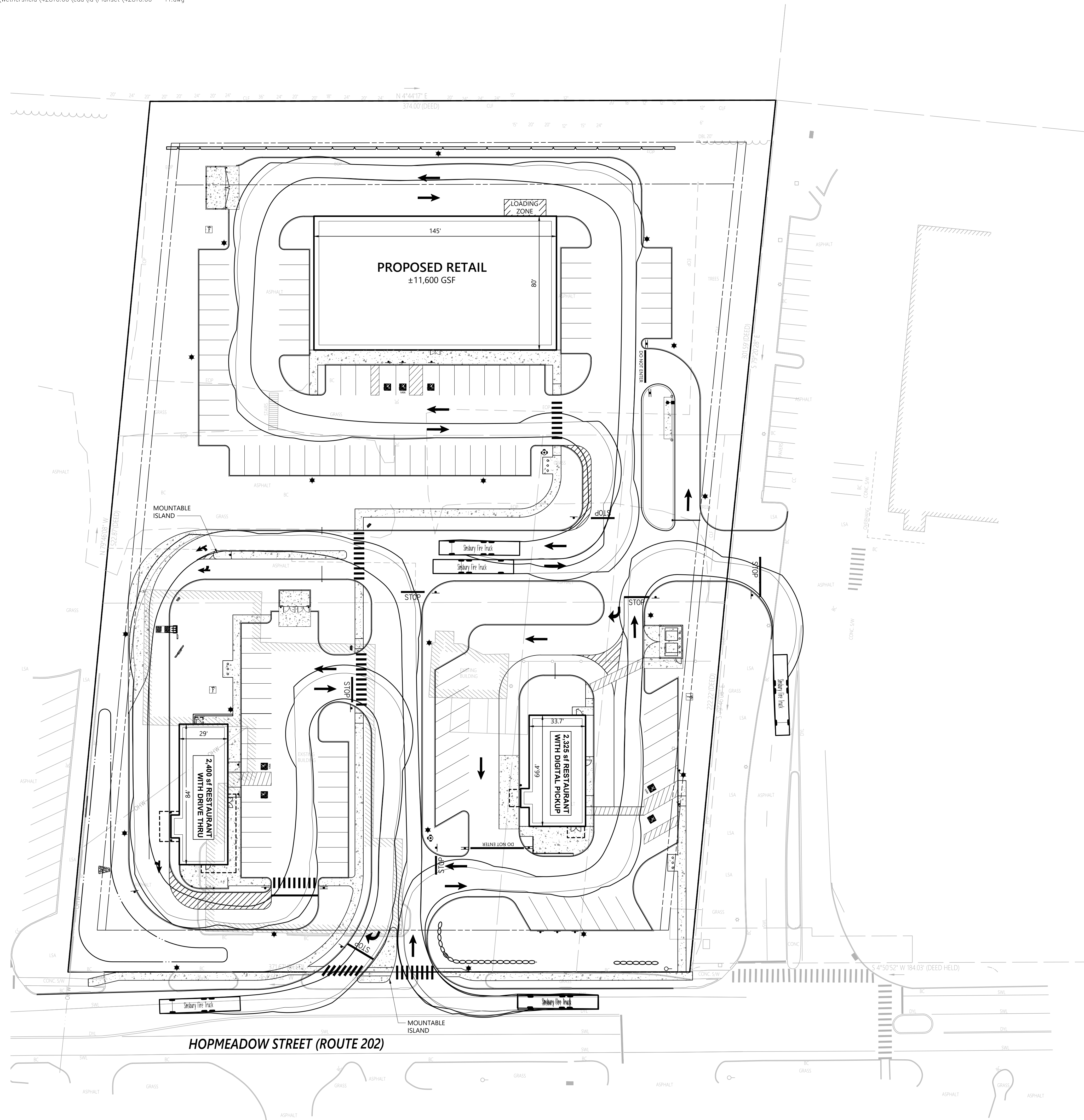
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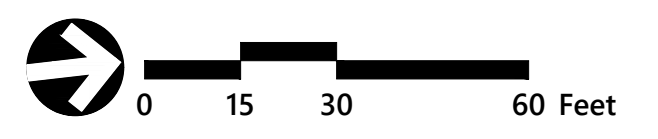
**Truck Movement Plan
 Delivery Trucks**



TT-1



Simsbury Fire Truck	
Overall Length	48.170ft
Overall Width	8.333ft
Overall Body Height	10.490ft
Min Body Ground Clearance	0.920ft
Track Width	8.333ft
Lock-to-lock time	6.00s
Max Wheel Angle	45.00°



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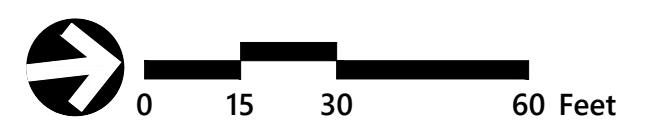
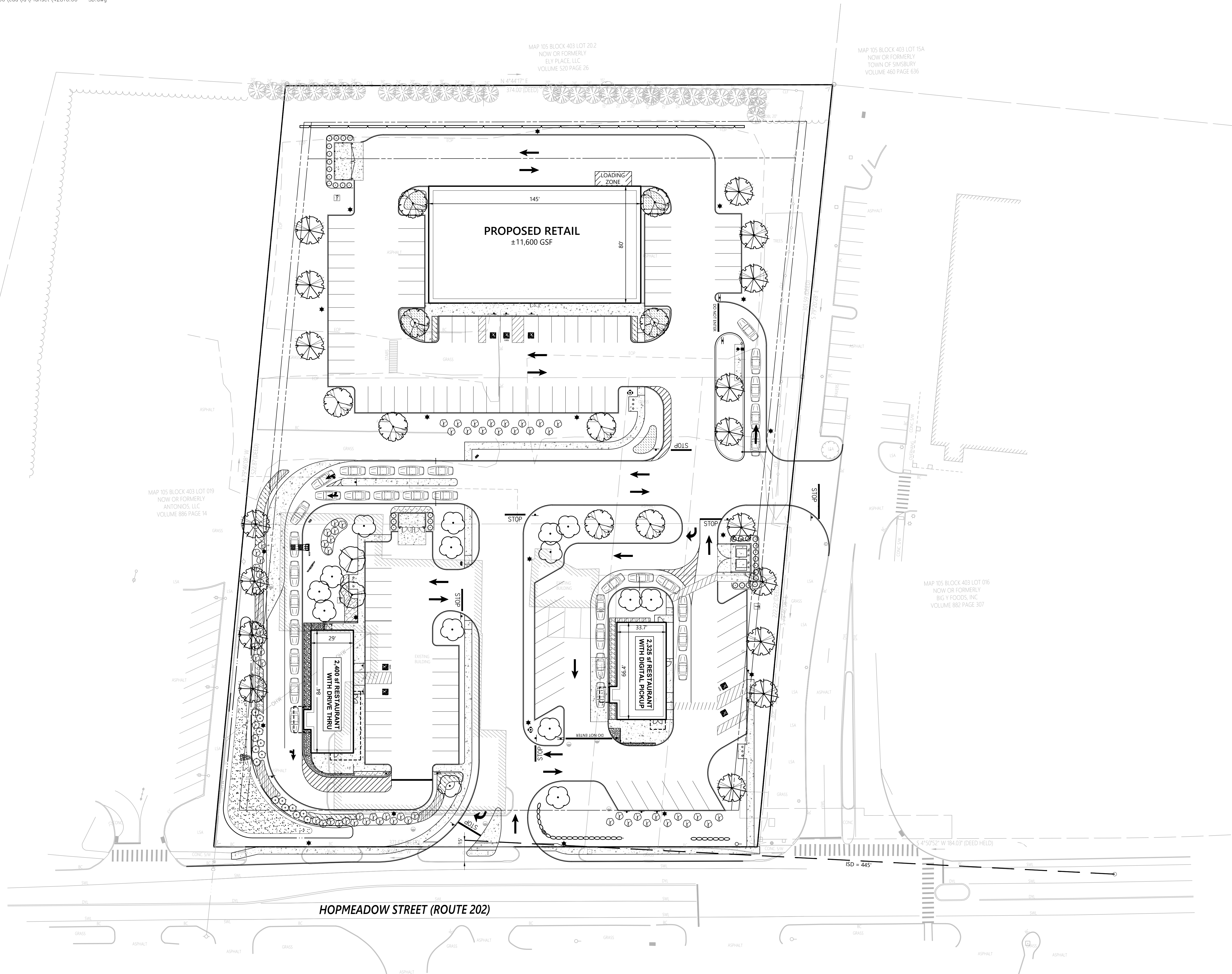
No.	Revision	Date	Apprv.
1	TOWN/STATE/TENANT COMMENTS	8/23/2023	

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**Truck Movement Plan
Fire Truck**



TT-2




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Intersection Sight Distance Plan

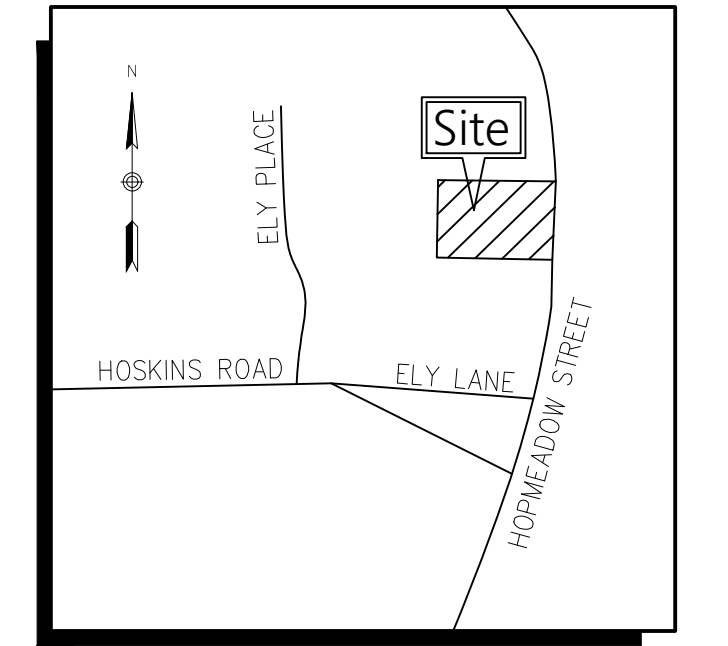
Drawing Title: Intersection Sight Distance Plan
Drawing Number: SD-1



Project Number: 42810.00



100 Great Meadow Road
Suite 200
Wethersfield, CT 06109
860.807.4300



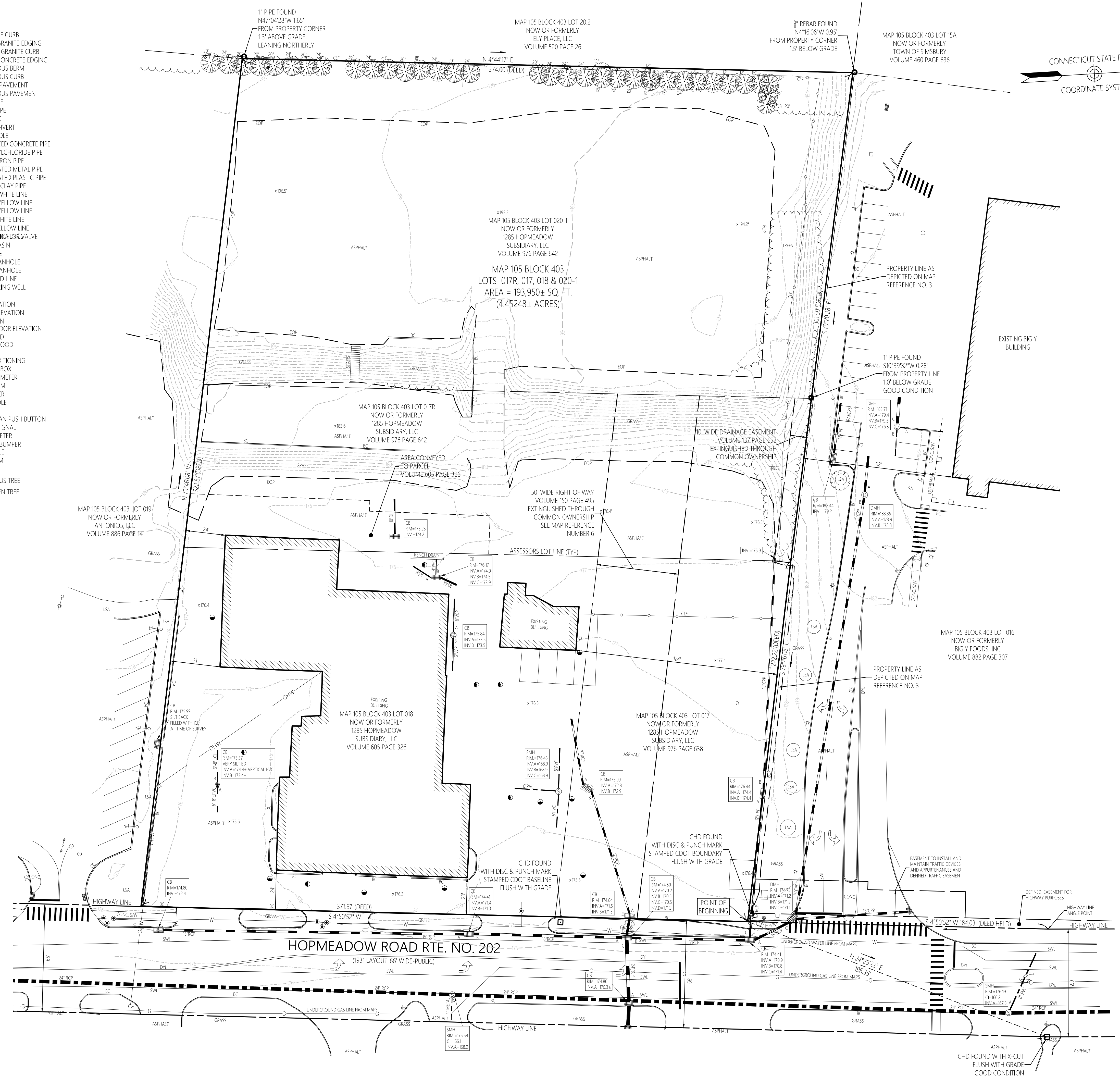
Locus Map
(NOT TO SCALE)

Legend

- CATCH BASIN
CATCH BASIN
ROUND CATCH BASIN
FLARED END SECTION
DOWNSPOUT
DRAIN MANHOLE
SEWER MANHOLE
ELECTRIC MANHOLE
TELEPHONE MANHOLE
MANHOLE
SIGNAL MANHOLE
WATER MANHOLE
WATER GATE
SIAMESE CONNECTION
FIRE HYDRANT
GAS GATE
STREET SIGN
LIGHT POLE
FLOOD LIGHT
UTILITY POLE
UTILITY POLE W/LIGHT
GUY POLE
GUY WIRE
BOLLARD/POST
BORING
MONITORING WELL
TEST PIT
WETLAND FLAG
SPOT ELEVATION
HANDICAP SYMBOL
EDGE OF PAVEMENT
EDGE OF GRAVEL/LANDSCAPE
EDGE OF TRAVELED WAY
EDGE OF PATH
BUILDING OVERHANG
CURB
STEEL GUARD RAIL
WOOD GUARD RAIL
BARBED WIRE FENCE
CHAIN LINK FENCE
WOOD FENCE
UNDERGROUND DRAINAGE LINE
UNDERGROUND SEWER LINE
OVERHEAD WIRE
UNDERGROUND ELECTRIC LINE
UNDERGROUND GAS LINE
UNDERGROUND WATER LINE
UNDERGROUND TELEPHONE LINE
UNDERGROUND CABLE LINE
UNDERGROUND FIBER OPTIC LINE
STONE WALL
TREE LINE
STREAM
WETLAND EDGE
PROPERTY LINE
EASEMENT LINE
STATE FREEWAY LINE
STATE HIGHWAY LINE
CITY/TOWN LAYOUT LINE
CONCRETE CURB
SLOPED GRANITE EDGING
VERTICAL GRANITE CURB
SLOPED CONCRETE EDGING
SBB
BITUMINOUS BERM
BITUMINOUS CURB
EDGE OF PAVEMENT
BITUMINOUS PAVEMENT
CONC.
LS
SIDEWALK
CENTER INVERT
UTILITY POLE
REINFORCED CONCRETE PIPE
POLYVINYLCHLORIDE PIPE
DUCTILE IRON PIPE
CORRUGATED METAL PIPE
CORRUGATED PLASTIC PIPE
VITRIFIED CLAY PIPE
BROKEN WHITE LINE
BROKEN YELLOW LINE
DOUBLE YELLOW LINE
SINGLE WHITE LINE
SINGLE YELLOW LINE
EBS IN/UNDER/BEFORE/ALIVE
CATCH BASIN
MANHOLE
DRAIN MANHOLE
SEWER MANHOLE
OVERHEAD LINE
MONITORING WELL
TEST PIT
RIM ELEVATION
INVERT ELEVATION
ELEVATION
FINISH FLOOR ELEVATION
OVERHEAD
TOP OF HOOD
TYPICAL
AIR CONDITIONING
ELECTRIC BOX
ELECTRIC METER
FIRE ALARM
GAS METER
HAND HOLE
MAILBOX
PEDESTRIAN PUSH BUTTON
TRAFFIC SIGNAL
WATER METER
PARKING BUMPER
SPRINKLER
MAST ARM
SHRUB
DECIDUOUS TREE
EVERGREEN TREE

Map References

- 1. MAP TITLED "CONNECT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF SIMSBURY COLLEGE HIGHWAY FROM THE GRANBY TOWN LINE SOUTHERLY TO HOSKINS CROSSING ROUTE NO. 116" SCALE 1"=40' DATED DEC. 30, 1931 REVISED AUGUST 15, 1986, NUMBER 338 SHEET NO. 3 OF 3.
2. MAP TITLED "RIGHT OF WAY SURVEY TOWN OF SIMSBURY MAP SHOWING EASEMENTS ACQUIRED FROM BIG Y FOODS, INC. BY THE STATE OF CONNECTICUT HOPMEADOW STREET (CT ROUTE 10 & U.S. ROUTE 202)" SCALE 1"=40' DATE: 03-25-2020, REVISED TO 04-17-2020.
3. MAP TITLED "FOUNDATION LOCATION IMPROVEMENT LOCATION PLAN-RECORD PROPERTY OF BIG Y FOODS, INC. HOPMEADOW STREET SIMSBURY, CONNECTICUT" SCALE 1"=40' DATED 03-06-2020 REVISED 09-30-2020.
4. MAP TITLED "SURVEY--WAGNER FORD COLLEGE HIGHWAY SIMSBURY, CONN." SCALE 1"=40' DATED 5-21-56.
5. MAP TITLED "PROPERTY OF PENTAGON BUILDING CORPORATION COLLEGE HIGHWAY--CONN. RT. 10 & ELY LANE SIMSBURY, CONNECTICUT" SCALE 1"=100' DATED FEBRUARY 8, 1965.
6. MAP TITLED "PROPERTY OF WAGNER FORD & SALES INC. MADELINE F. AND RICHARD D. WAGNER HOPMEADOW STREET SIMSBURY, CONNECTICUT" SCALE 1"=40' DATED AUGUST 1964 REVISED TO SEPT. 9, 1969.
7. MAP TITLED "ESTATE OF HILDA WESTERBERG OSBORNE 1313 HOPMEADOW STREET SIMSBURY, CONNECTICUT" SCALE 1"=40' DATED OCTOBER 1968.
8. MAP TITLED "EXHIBIT A-3 TO DECLARATION OF ELY PLACE CONDOMINIUM PROPERTY OF STEPHEN D. FISH ELY LANE & HOSKINS ROAD SIMSBURY, CONNECTICUT" SCALE 1"=40' DATED OCTOBER 1984.
9. MAP TITLED "BOUNDARY LINE ADJUSTMENT PREPARED FOR WAGNER FORD SALES, INC. & CHARLES GERSTEN TRUSTEE HOPMEADOW STREET--SIMSBURY, CONNECTICUT" SCALE 1"=20' DATED JANUARY 27, 2003.
10. MAP TITLED "EXISTING CONDITIONS PLAN PREPARED FOR WAGNER HOPMEADOW STREET & ELY LANE SIMSBURY, CONNECTICUT" SCALE 1"=40' DATED JANUARY 28, 2003.



THIS SURVEY AND MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

THIS IS A PROPERTY SURVEY CONFORMING TO A HORIZONTAL CLASS A-2 ACCURACY. THE BOUNDARY DETERMINATION IS A RESURVEY. THIS IS ALSO A TOPOGRAPHIC SURVEY CONFORMING TO A TOPOGRAPHICAL ACCURACY STANDARD CLASS 1-2.

TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS PLAN IS NOT VALID WITHOUT A LIVE SIGNATURE AND EMBOSSED SEAL.

CHRISTOPHER C. DANFORTH, L.S. #70118 DATE 4/20/2022



General Notes

- 1. THE PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VHB BETWEEN FEBRUARY 28, 2022 AND MARCH 1, 2022.
2. THE EXISTING CONDITIONS DEPICTED ON THIS PLAN ARE BASED UPON AN ACTUAL ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY VHB BETWEEN FEBRUARY 28, 2022 AND MARCH 1, 2022.
3. THIS EXISTING CONDITIONS DEPICTED ON THIS PLAN WERE DEVELOPED FROM A COMBINED EFFORT OF AERIAL PHOTOGRAMMETRIC MAPPING BY ?????????, BASED OF AERIAL PHOTOGRAPHS TAKEN ON ?????????, ?????? AND AUGMENTED BY AN ON-THE-GROUND SURVEY PERFORMED BY VHB BETWEEN FEBRUARY 28, 2022 AND MARCH 1, 2022.
4. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE COMMITMENT. ACCORDINGLY, ALL ENCUMBRANCES MAY NOT BE DEPICTED.
5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES DEPICTED ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS AND INFORMATION OF RECORD. THEY ARE NOT WARRANTED TO BE EXACTLY LOCATED NOR IS IT WARRANTED THAT ALL UNDERGROUND UTILITIES OR OTHER STRUCTURES ARE DEPICTED ON THIS PLAN.
6. COORDINATES, HORIZONTAL DATUM AND BEARINGS DEPICTED ON THIS SURVEY ARE REFERENCED TO THE CONNECTICUT STATE PLANE COORDINATE GRID SYSTEM - NAD 83. THE VERTICAL DATUM DEPICTED ON THIS SURVEY IS REFERENCED TO THE NAVD83. BOTH DATUMS WERE COMPUTED AND MEASURED USING AVERAGED REAL TIME NETWORK (RTN) GPS SOLUTION.

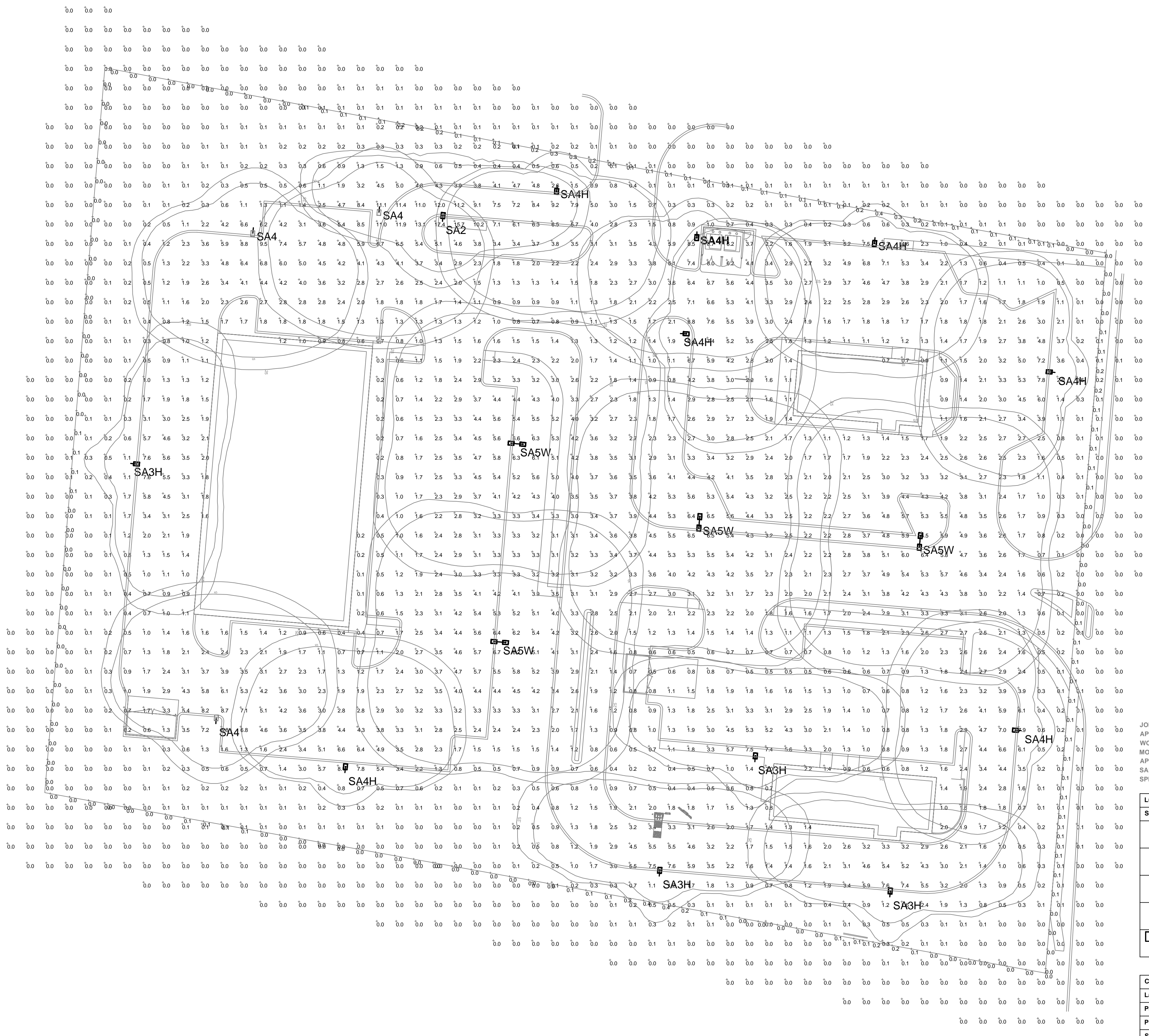
Map 10 Block 403
Lots 017, 017R, 018,
& 020-1
Hopmeadow Street
Simsbury, Connecticut

Table with columns: No., Revision, Date, Appr.

Designed by: _____ Checked by: _____
Issued for: _____ Date: _____
Review April 20, 2022

Property Survey
& Topographic Survey

Drawing Number _____
Project Number 42810.00
Sv-1
Sheet 1 of 1



JOB NAME: 1263 HOPEMEADOW ST - SIMSBURY, CT
 APEX LIGHTING SOLUTIONS
 WORKPLANE/CALC PLANE: AT FINISH GRADE
 MOUNTING HEIGHT: SEE LUMINAIRE SCHEDULE
 APPS: LEDPD
 SALES: SP
 SPECIFIER: VHB

Symbol	Qty	Label	Arrangement	Lum. Lumens	Lum. Watts	LLF	Description	[MANUFAC]	Filename
[Symbol]	1	SA2	Single	22652	177.8	0.850	ECF-S-64L-900-WW-G2-AR-2-VOLT, 18ft SSS Lytepole	SIGNIFY GARDCO	ecf-s-64l-900-ww-g2-2.ies
[Symbol]	4	SA3H	Single	17653	177.8	0.850	ECF-S-64L-900-WW-G2-AR-3-VOLT-HS, 18ft SSS Lytepole	Gardco	ECF-S-64L-900-ww-g2-3-HIS.ies
[Symbol]	3	SA4	Single	23185	177.8	0.850	ECF-S-64L-900-WW-G2-AR-4-VOLT, 18ft SSS Lytepole	SIGNIFY GARDCO	ecf-s-64l-900-ww-g2-4.ies
[Symbol]	7	SA4H	Single	18179	177.8	0.850	ECF-S-64L-900-WW-G2-AR-4-VOLT-HS, 18ft SSS Lytepole	Gardco	ECF-S-64L-900-ww-g2-4-HIS.ies
[Symbol]	4	SA5W	Back-Back	23045	177.8	0.850	ECF-S-64L-900-WW-G2-AR-5W-VOLT, 18ft SSS Lytepole	SIGNIFY GARDCO	ecf-s-64l-900-ww-g2-5w.ies

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Description
Parking & Drives	Illuminance	Fc	2.99	17.3	0.5	5.98	34.60	10ft Grid
Property Line	Illuminance	Fc	0.06	0.4	0.0	N.A.	N.A.	10ft Spacing
Site	Illuminance	Fc	1.67	17.4	0.0	N.A.	N.A.	10ft Grid

GENERAL DISCLAIMER:
 Calculations have been performed according to IES standards and good practice. Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting calculations. If the real environment conditions do not match the input data, differences will occur between measured values and calculated values.
 * LLF Determined Using Current Published Lamp Data

NOTE TO REVIEWER:
 Total Light Loss Factor (LLF) applied at time of design is determined by applying the Lamp Lumen Depreciation (LLD) from current lamp manufacturer's catalog, a Luminaire Dirt Depreciation Factor (LDD) based on IES recommended values and a Ballast Factor (BF) from current ballast specification sheets. Application of an incorrect Light Loss Factor (LLF) will result in forecasts of performance that will not accurately depict actual results.
 For proper comparison of photometric layouts, it is essential that you insist all designers use correct Light Loss Factors.

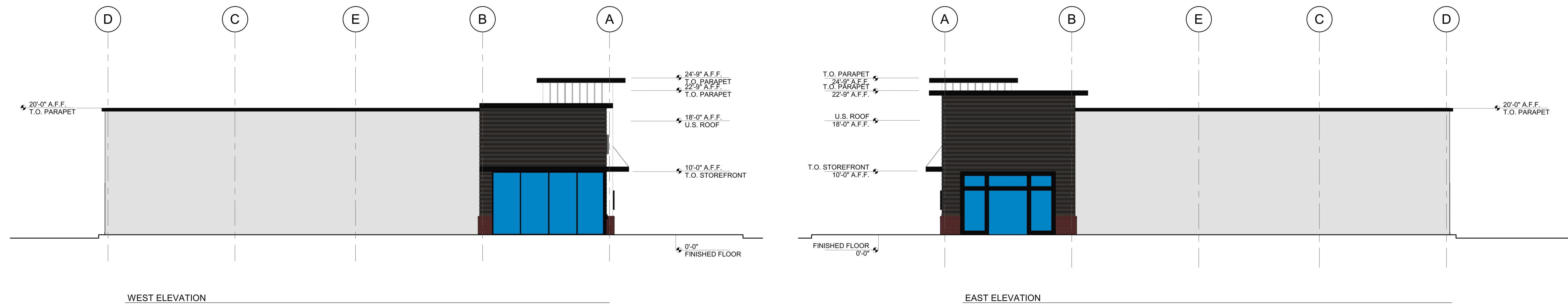


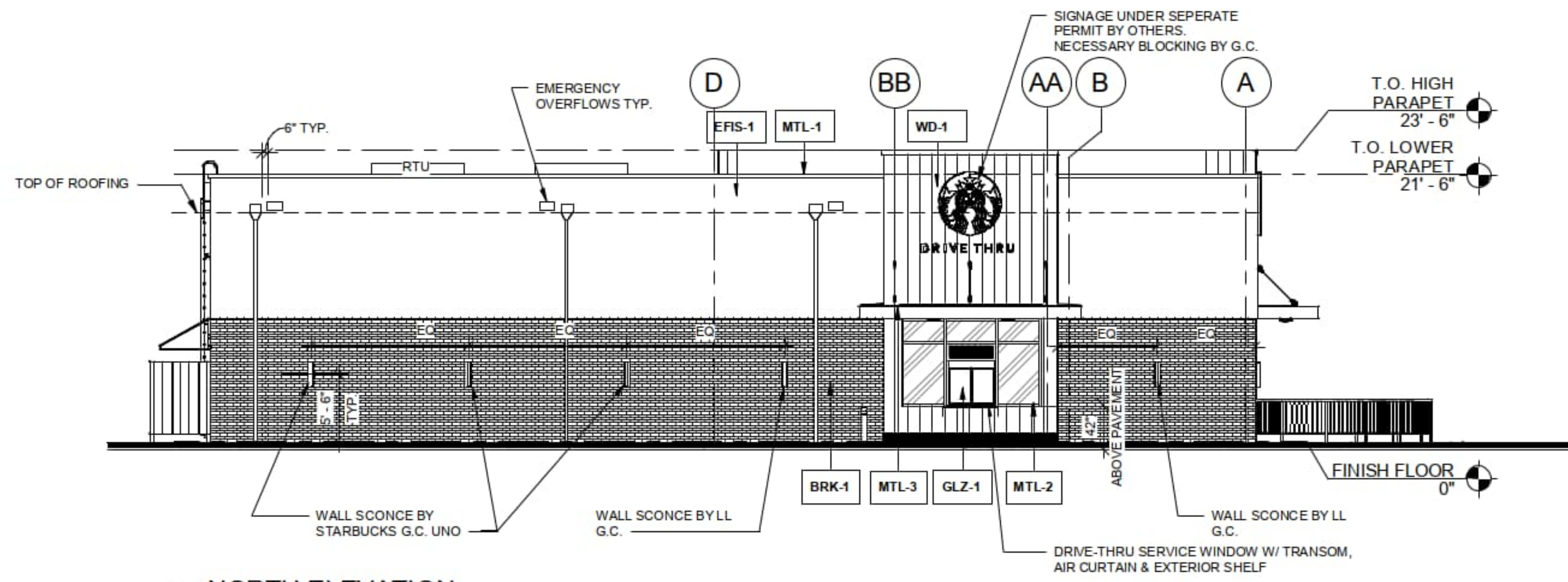
PROJECT TITLE:
 1263 HOPEMEADOW ST
 SIMSBURY, CT

DRAWING TITLE:
 SITE LIGHTING
 PHOTOMETRIC CALCULATION

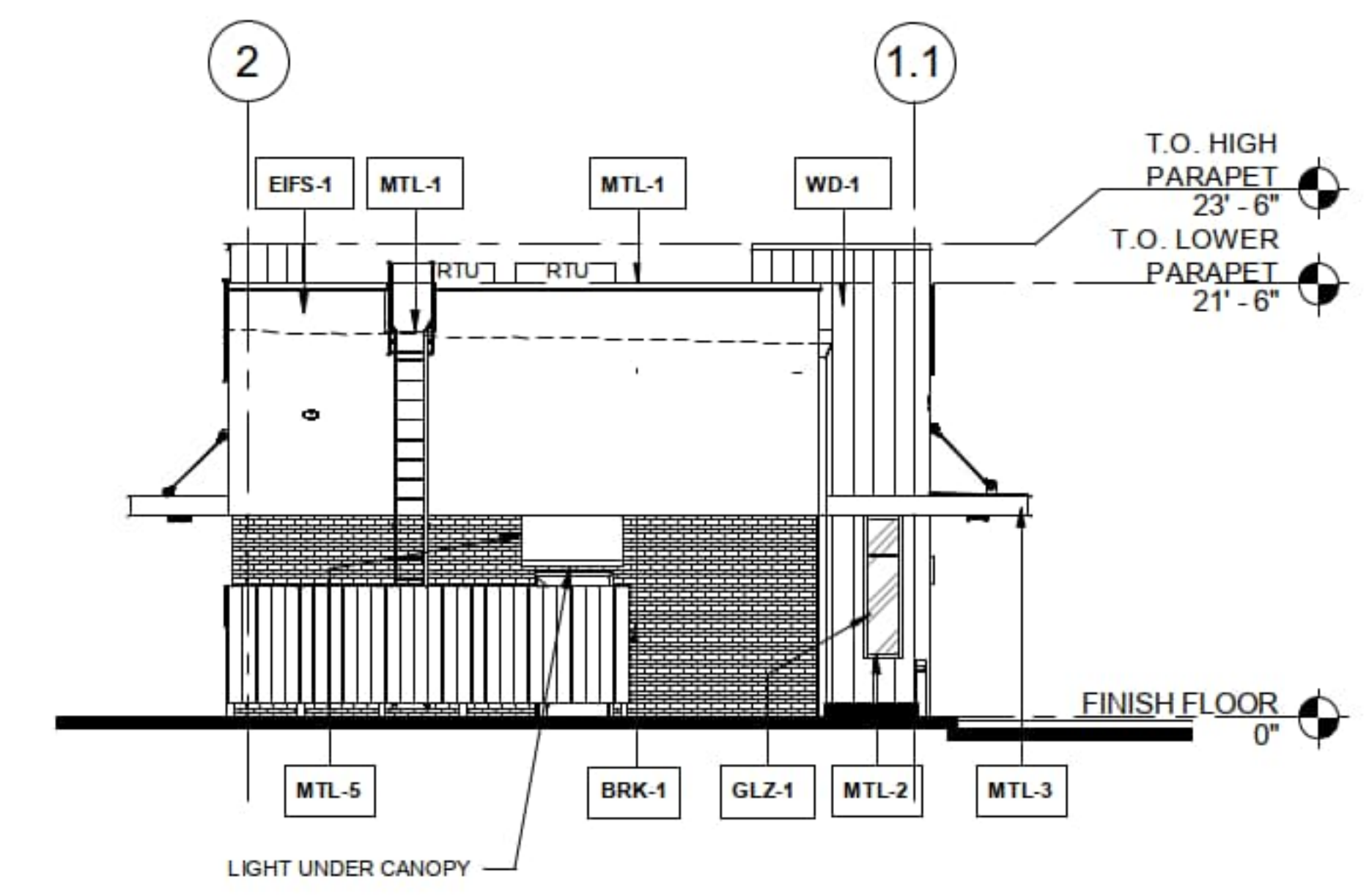
SCALE: 1"=30'-0"
 DATE: 4/19/23
 DRAWN BY: LED/PD
 SHEET:
 SL-1B

FILE NAME: 2023-04-19_SL-1B_1263 HOPEMEADOW ST - SIMSBURY, CT-LED.dwg

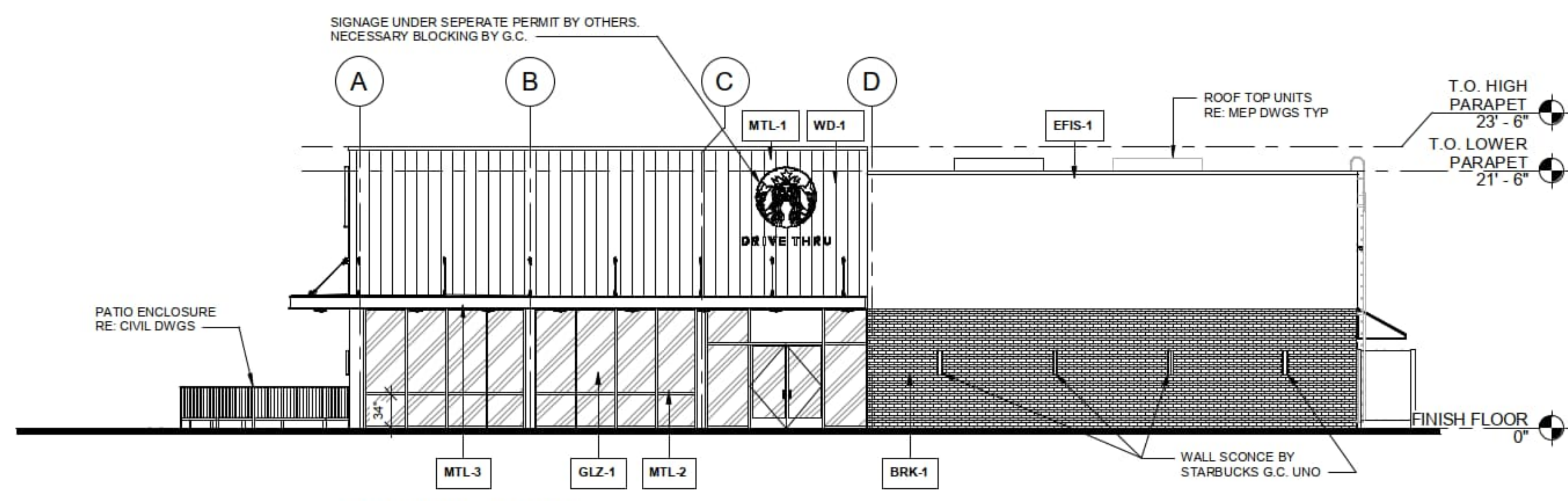




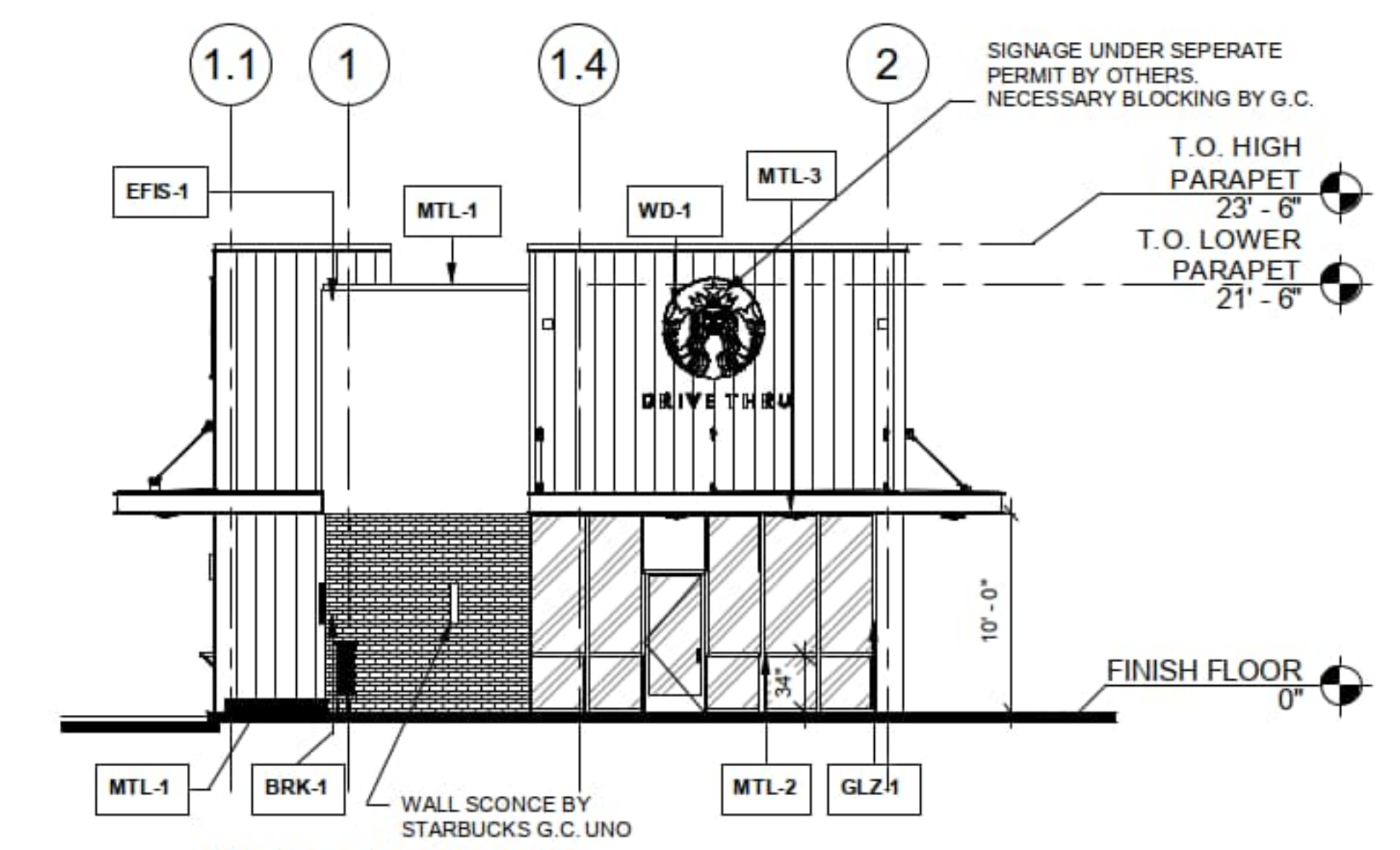
4 NORTH ELEVATION
Scale 1/8" = 1'-0"



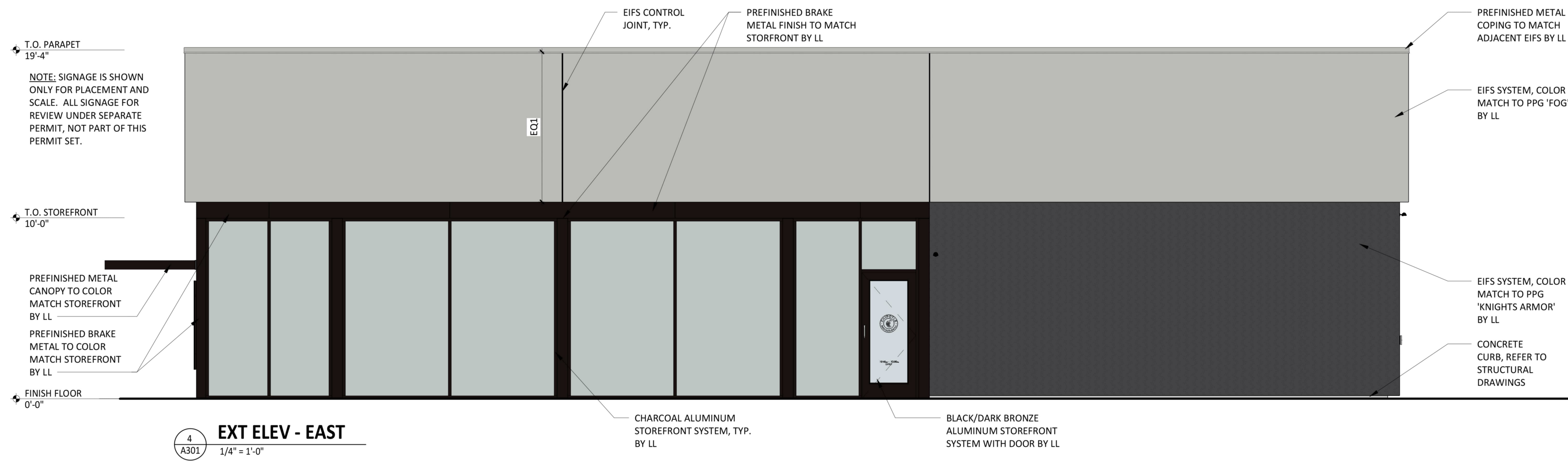
3 EAST ELEVATION
Scale 1/8" = 1'-0"



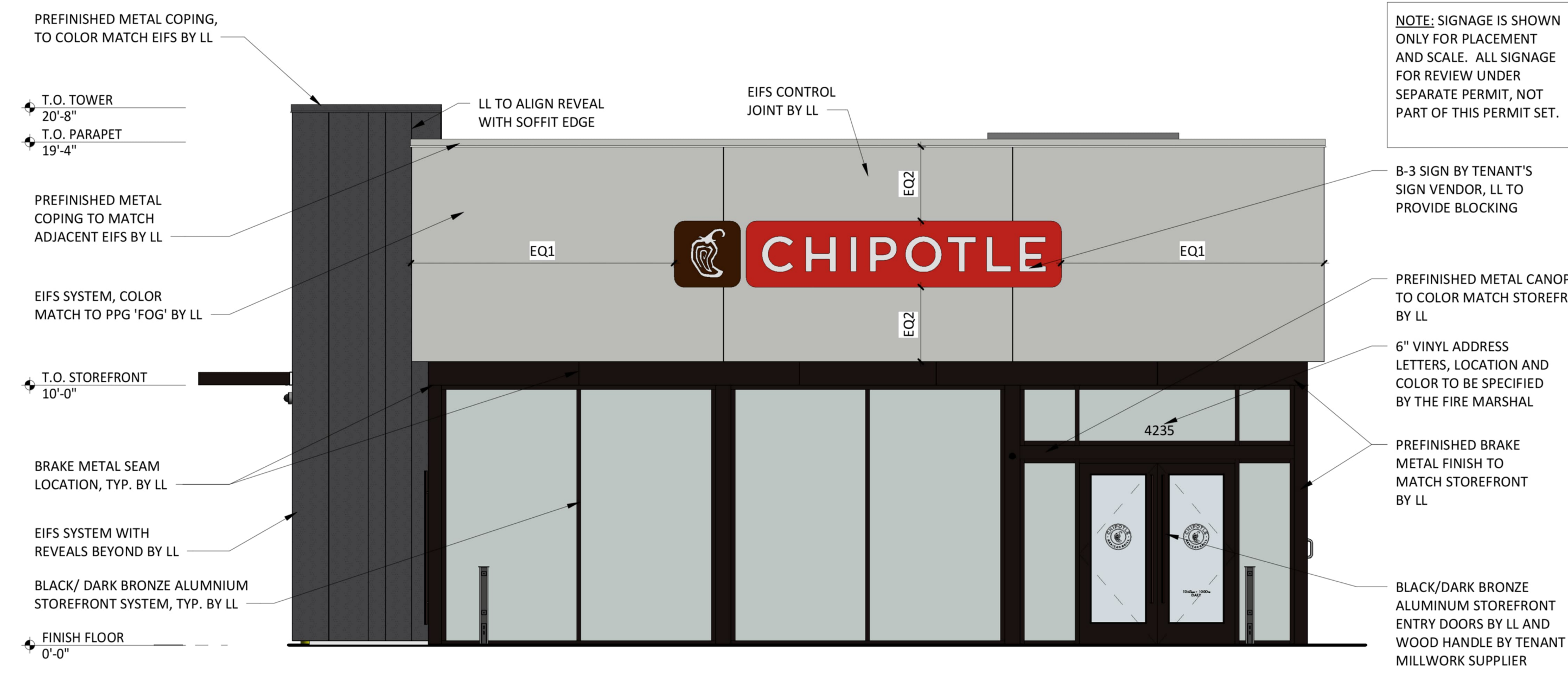
2 SOUTH ELEVATION
Scale 1/8" = 1'-0"



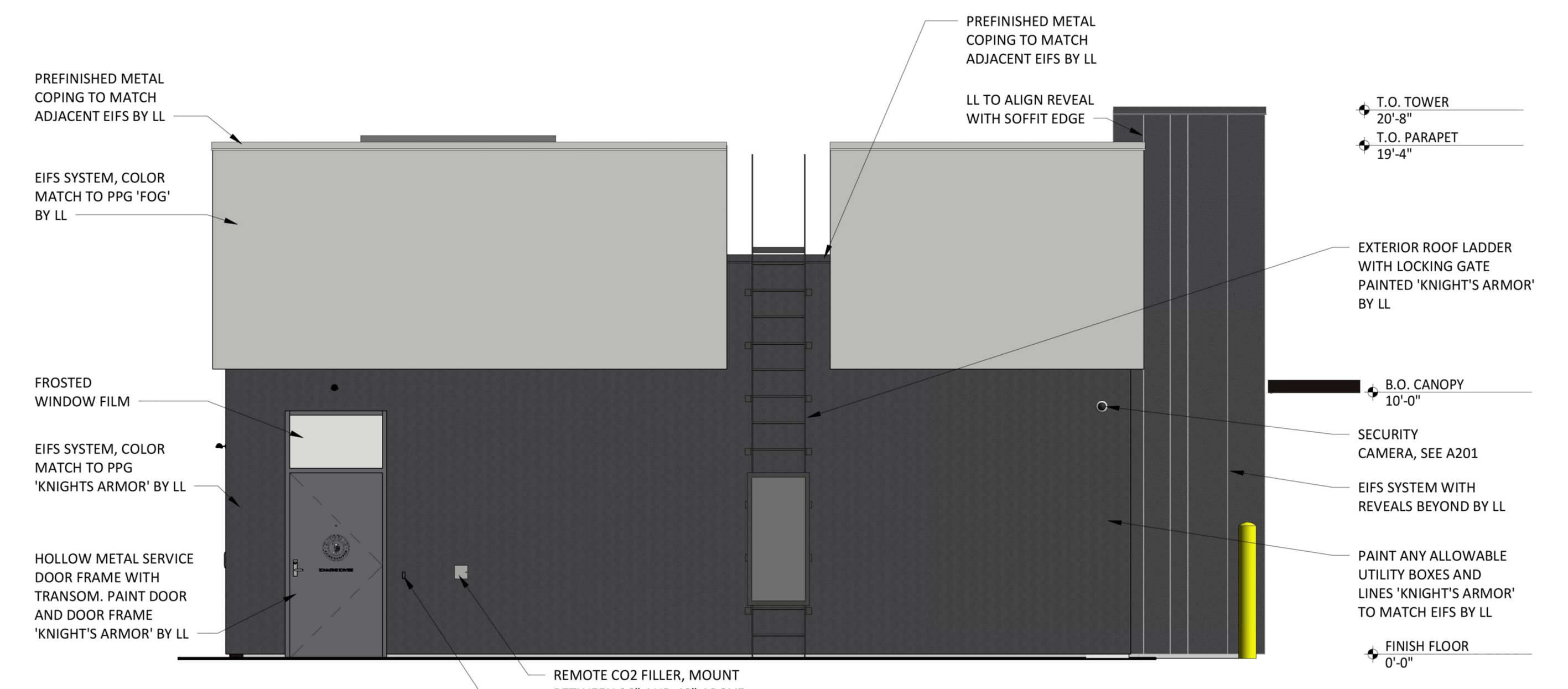
1 WEST ELEVATION
Scale 1/8" = 1'-0"



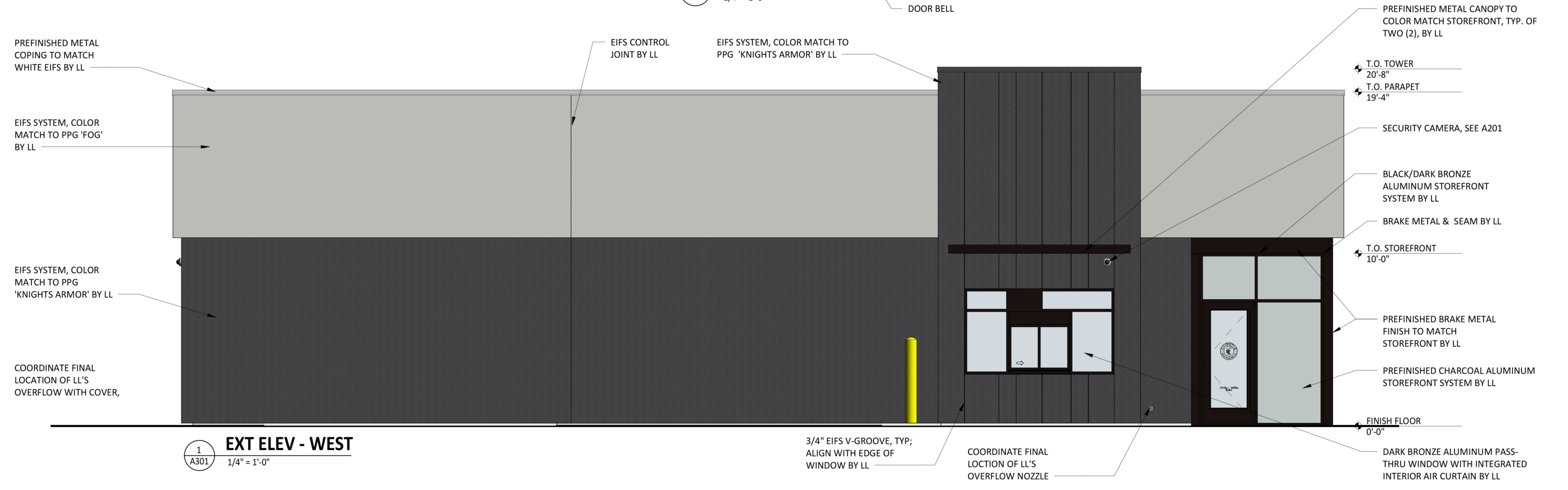
4
A301
EXT ELEV - EAST
1/4" = 1'-0"



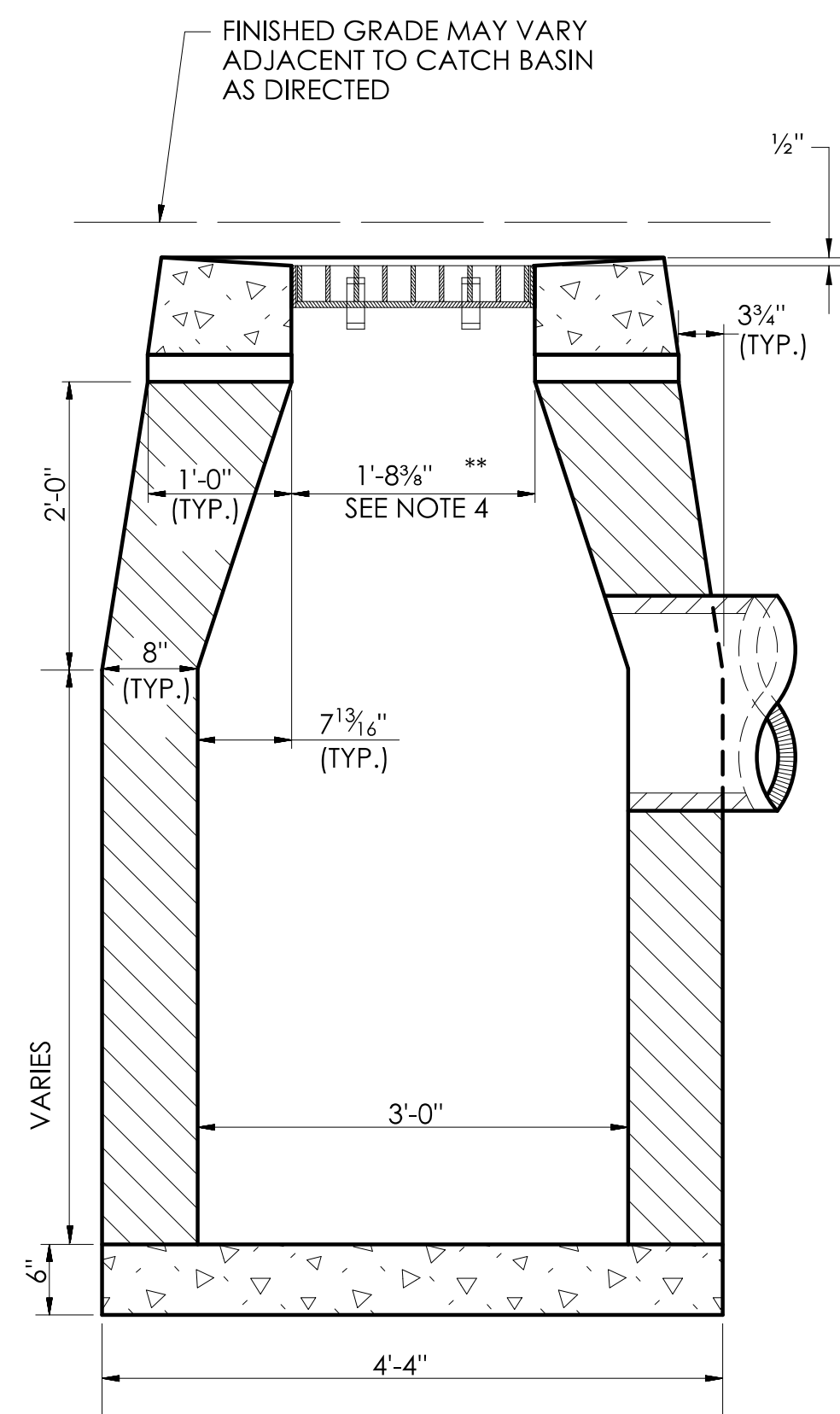
3
A301
EXT ELEV - SOUTH
1/4" = 1'-0"



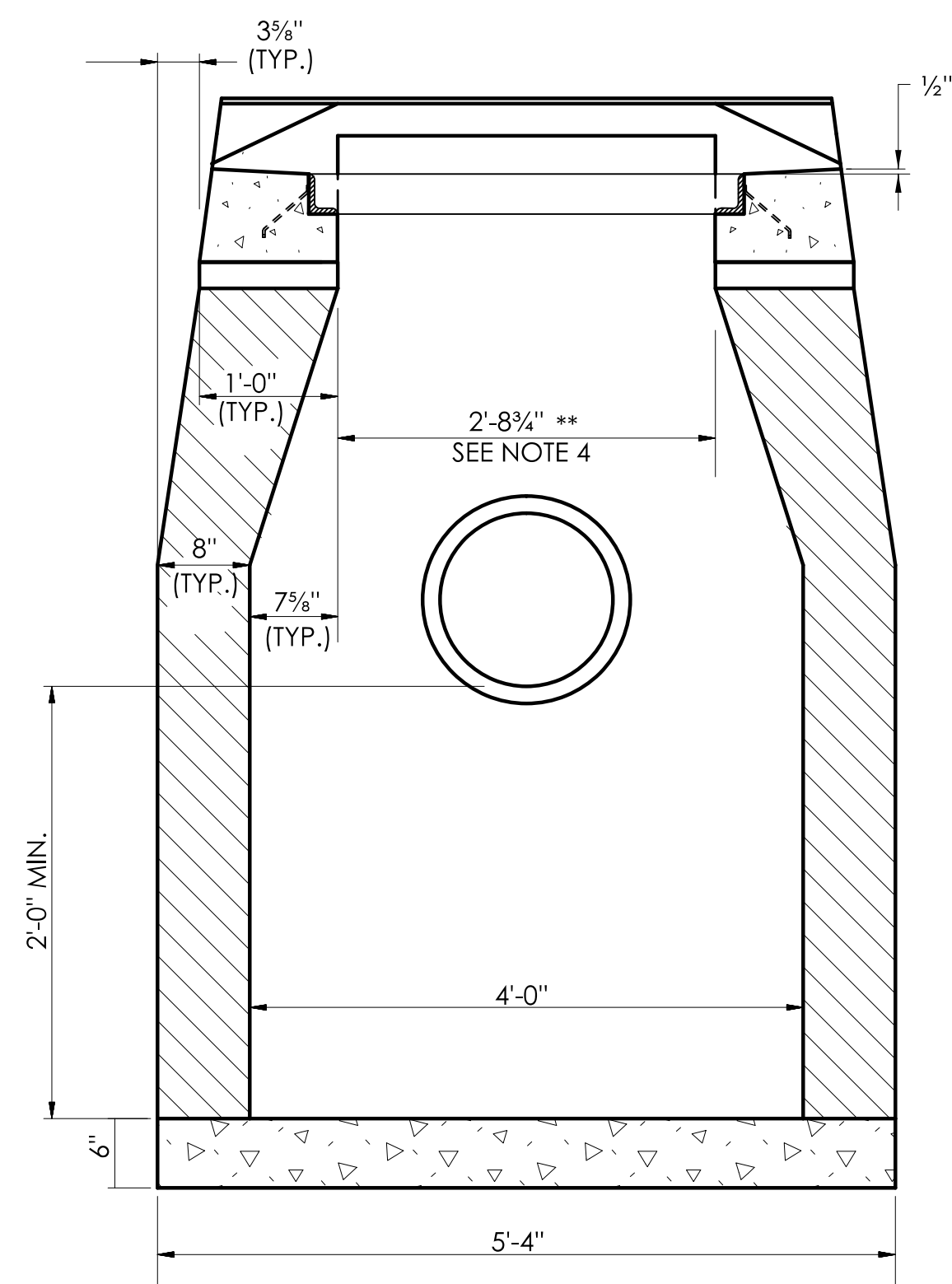
2
A301
EXT ELEV - NORTH
1/4" = 1'-0"



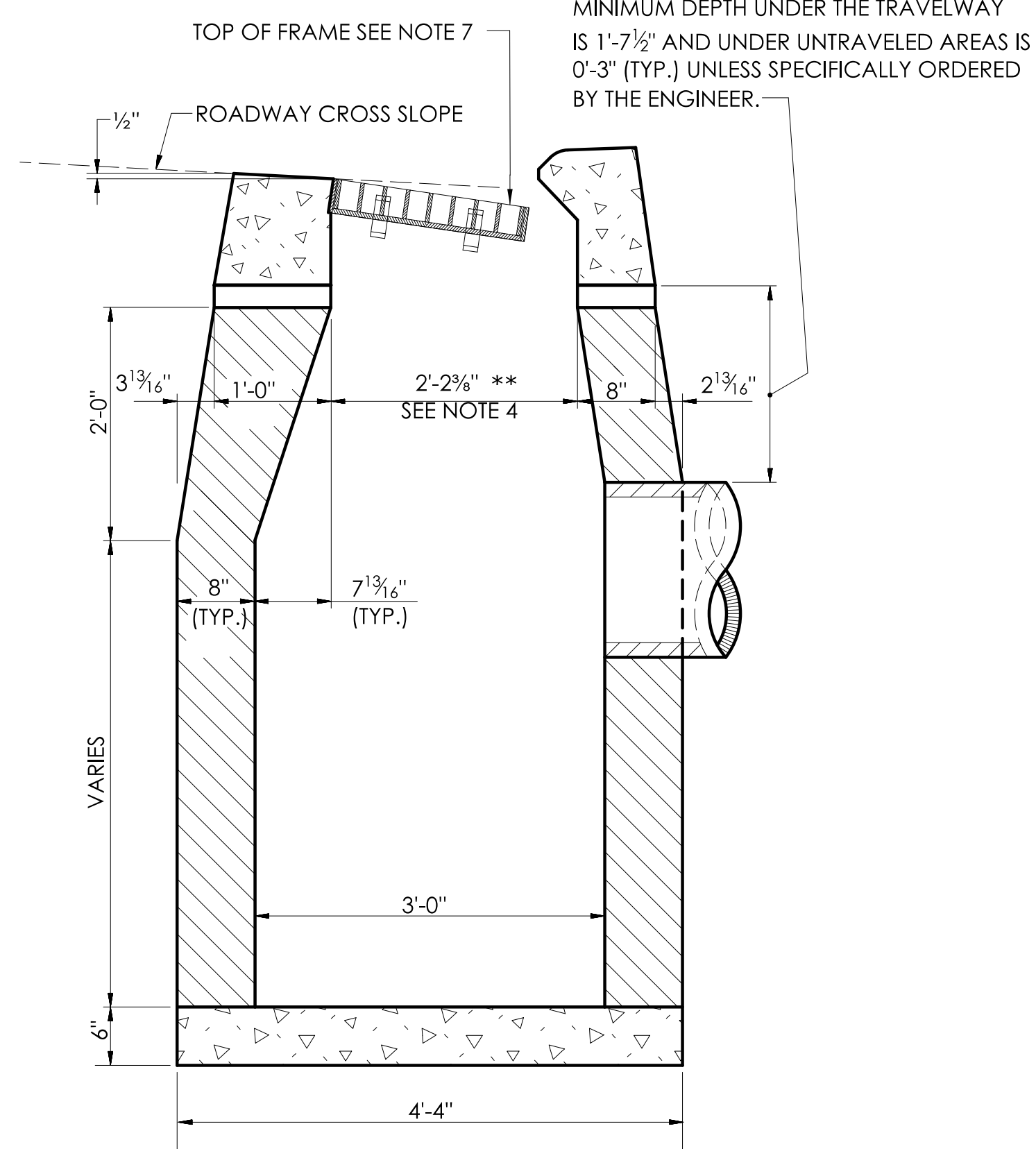
1
A301
EXT ELEV - WEST
1/4" = 1'-0"



SECTION B
TYPE "C-L" CATCH BASIN



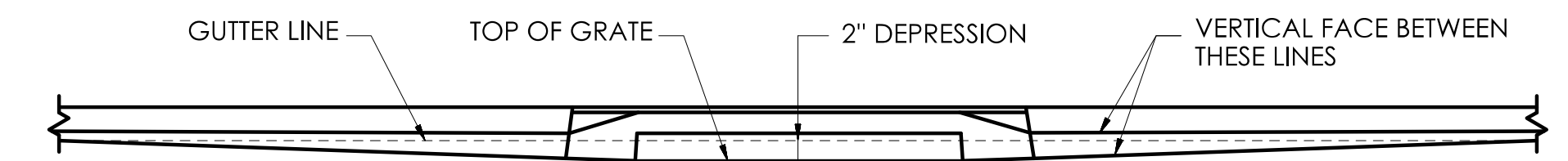
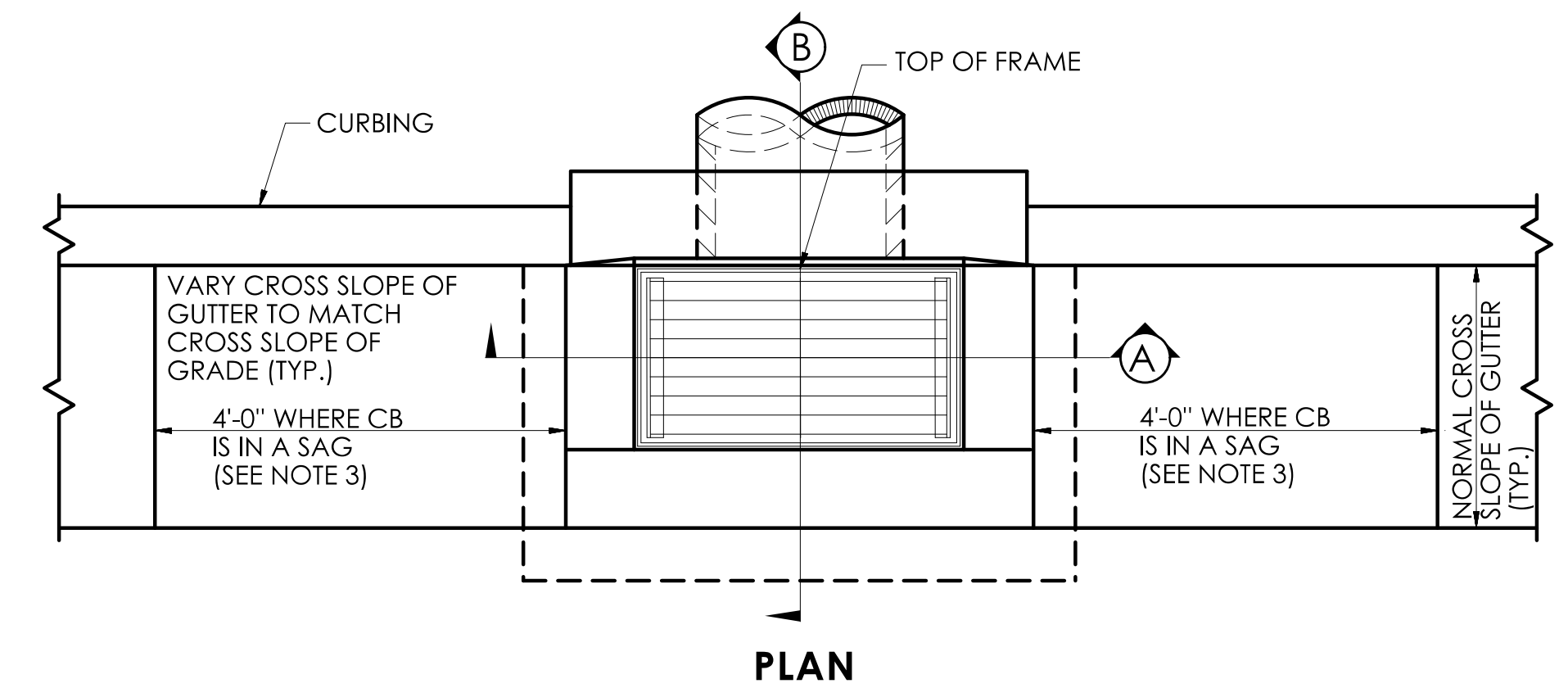
SECTION A
TYPE "C" & "C-L" CATCH BASIN
(TYPE "C" TOP SHOWN)



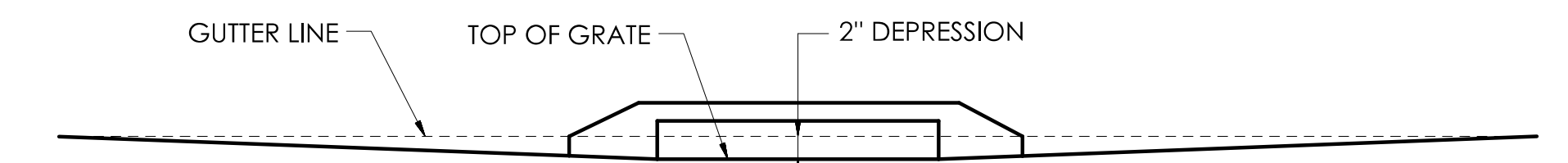
SECTION B
TYPE "C" CATCH BASIN

GENERAL NOTES:

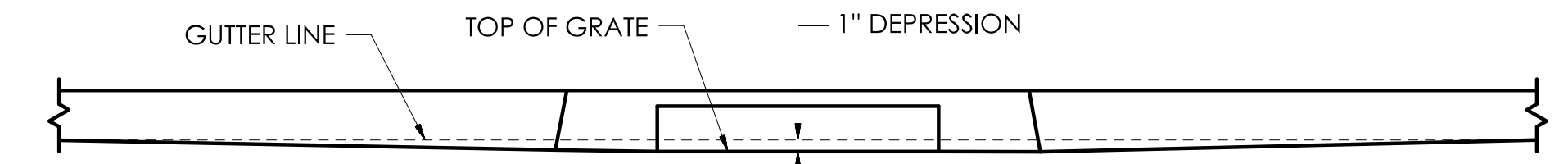
- FOR CATCH BASIN TOPS, SEE SHEET NO. HW-586_07.
- ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.
- USE 6'-0" ON UPGRADE SIDE (SEE PLAN VIEW) OF CONTINUOUS GRADE AND 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED BY THE ENGINEER.
- IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE DIMENSIONS SHOWN. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3". NO PROJECTION SHALL EXTEND INSIDE THE LIMITS FOR THE CATCH BASIN OPENINGS SHOWN IN THE SECTION VIEWS **.
- WALL THICKNESS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. 12" THICKNESS SHALL START AFTER THE FIRST 10'.
- SPACERS CAN BE EITHER CONCRETE MASONRY UNIT OR PRECAST WITH THE REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) AS NEEDED TO PROVIDE THE PROPER GRADE SHOWN ON THE PLANS.
- TOP OF FRAME ELEVATION SHALL BE MEASURED IN THE CENTER OF GRATE AT GUTTER LINE.



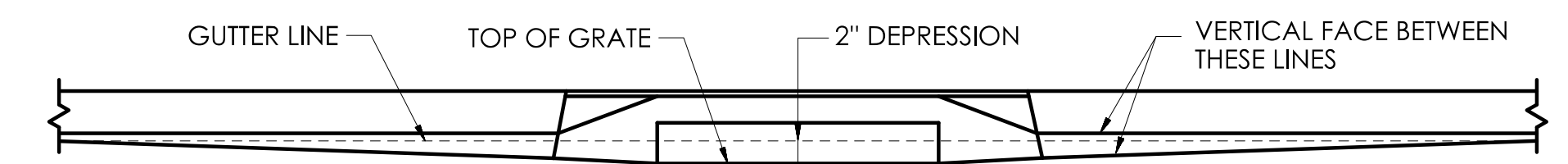
CATCH BASINS IN A LINE WITH 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING



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

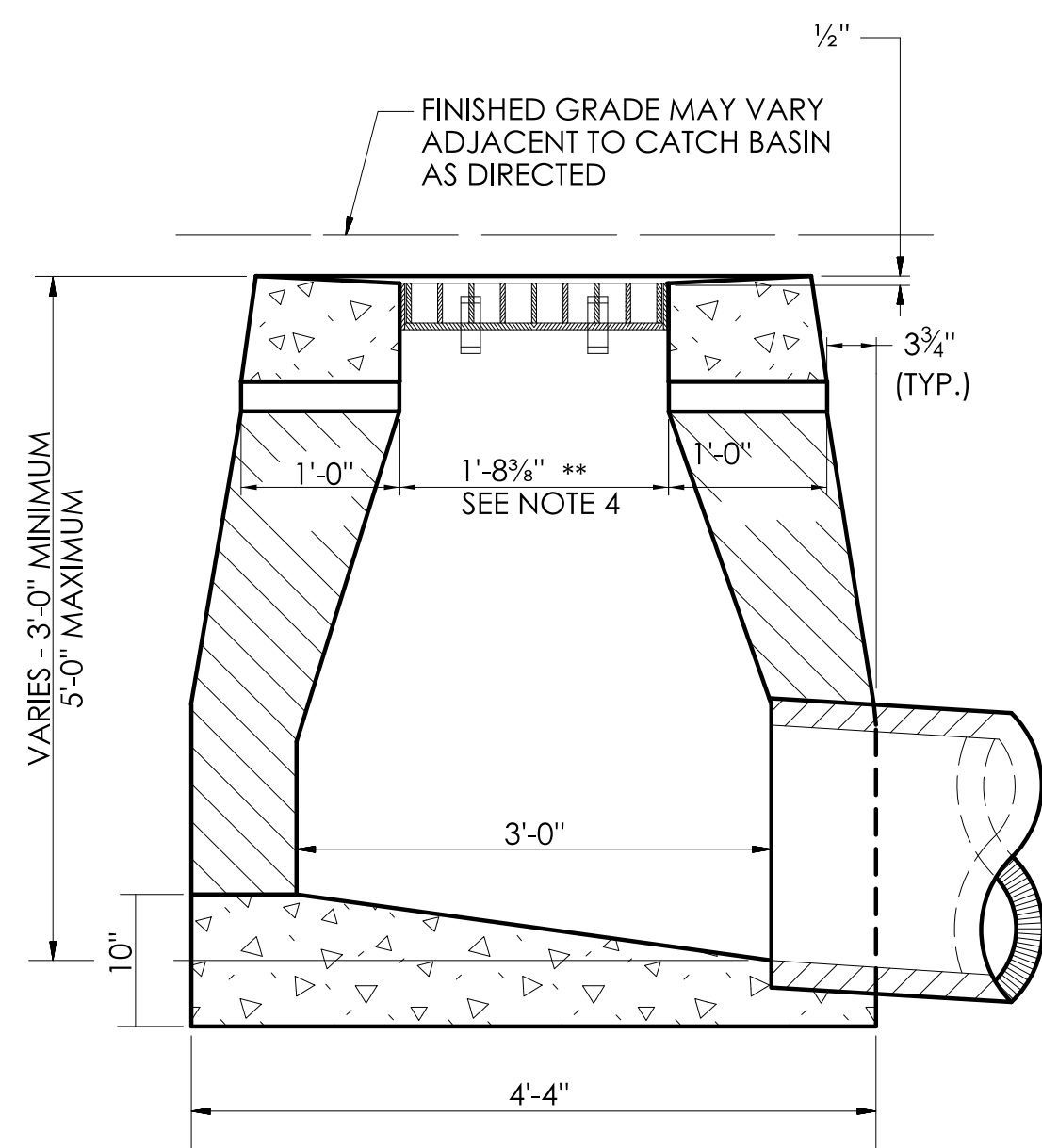


CATCH BASINS IN A LINE WITH 6" CONCRETE CURBING OR 6" STONE CURBING

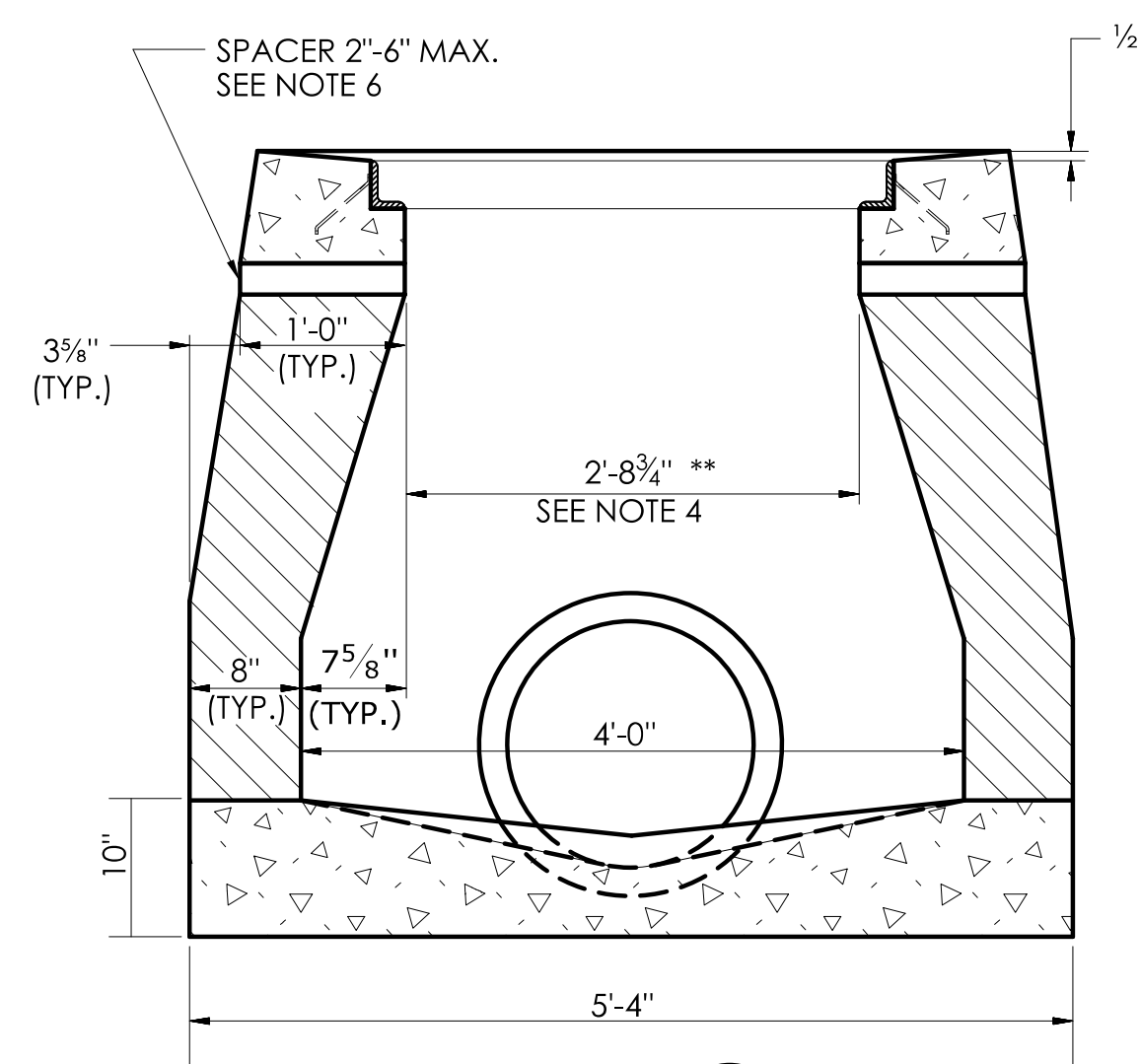


CATCH BASINS IN A LINE WITH 6" BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)

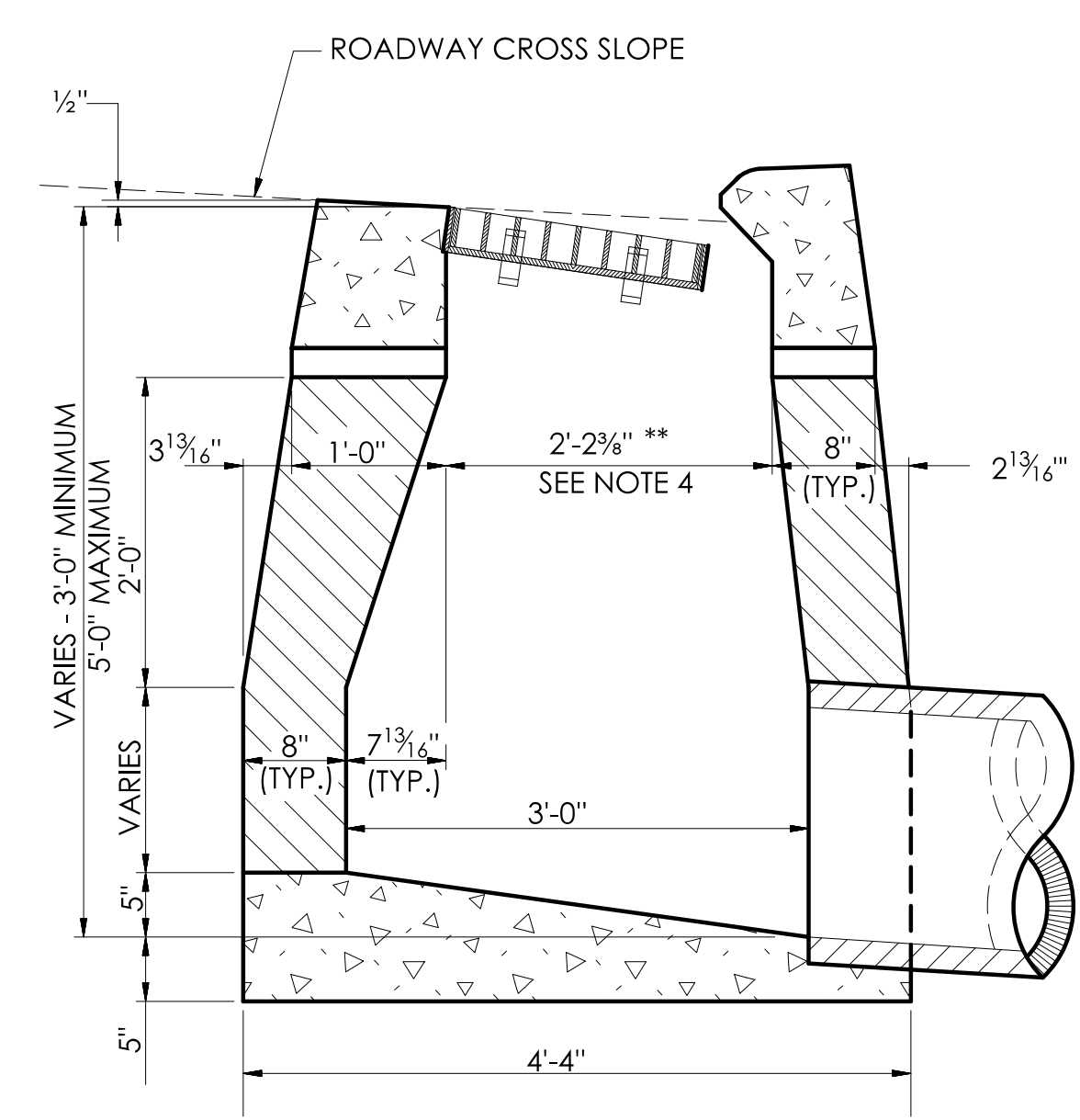
DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN



SECTION B
TYPE "C-L" DROP INLET



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



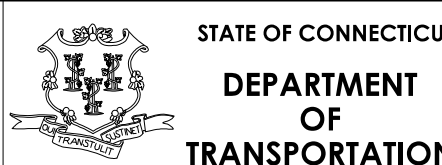
SECTION B
TYPE "C" DROP INLET

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
14:31:04-0400'

APPROVED BY:
Digitally signed by
Michael J. Calabrese
Date: 2022.11.09
13:51:15-0500'



CTDOT
STANDARD SHEET

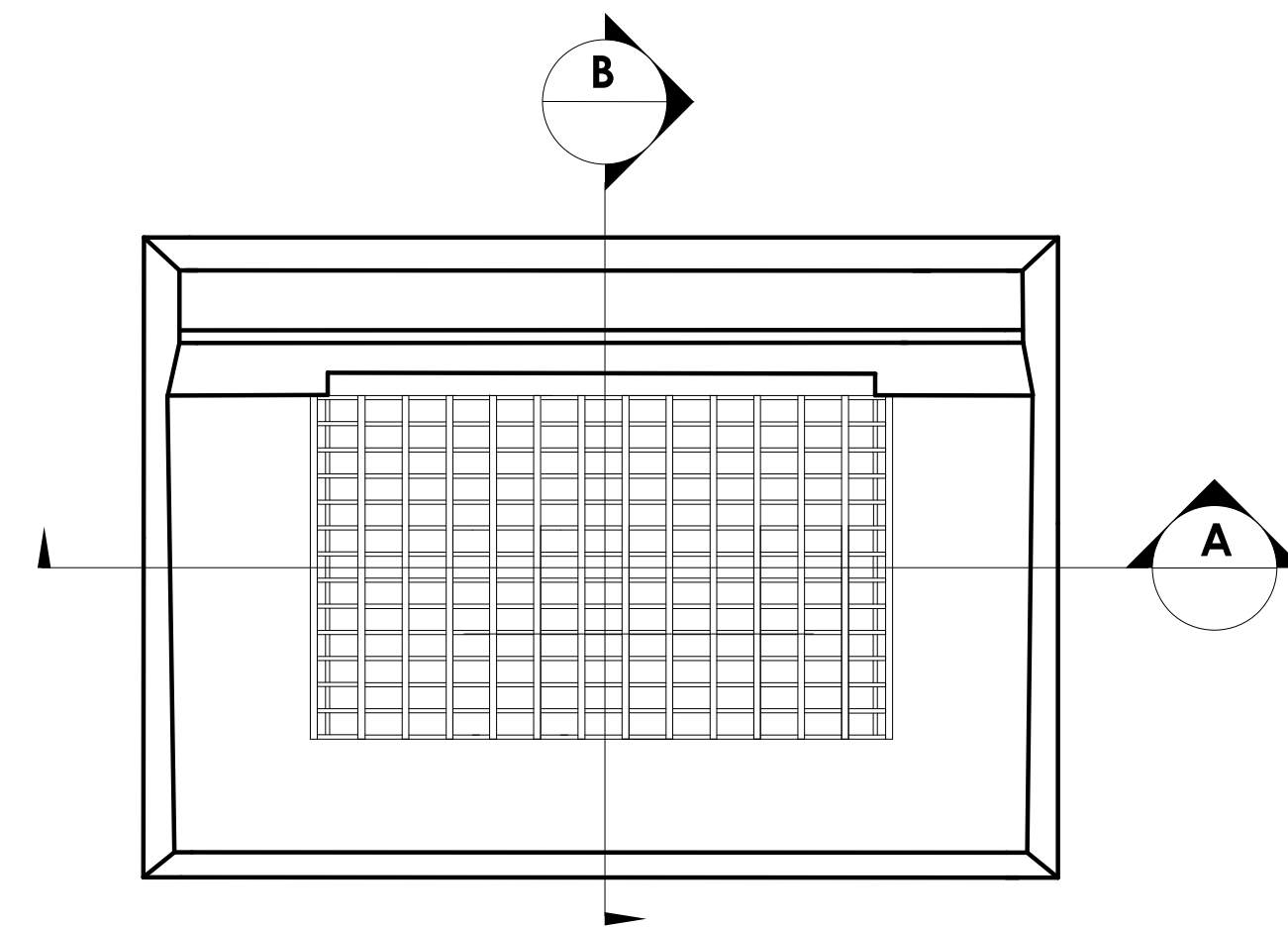
STANDARD SHEET TITLE:
CATCH BASIN AND DROP INLET TYPES "C" AND "C-L" STRUCTURES

STANDARD SHEET NO.:
HW- 586_01

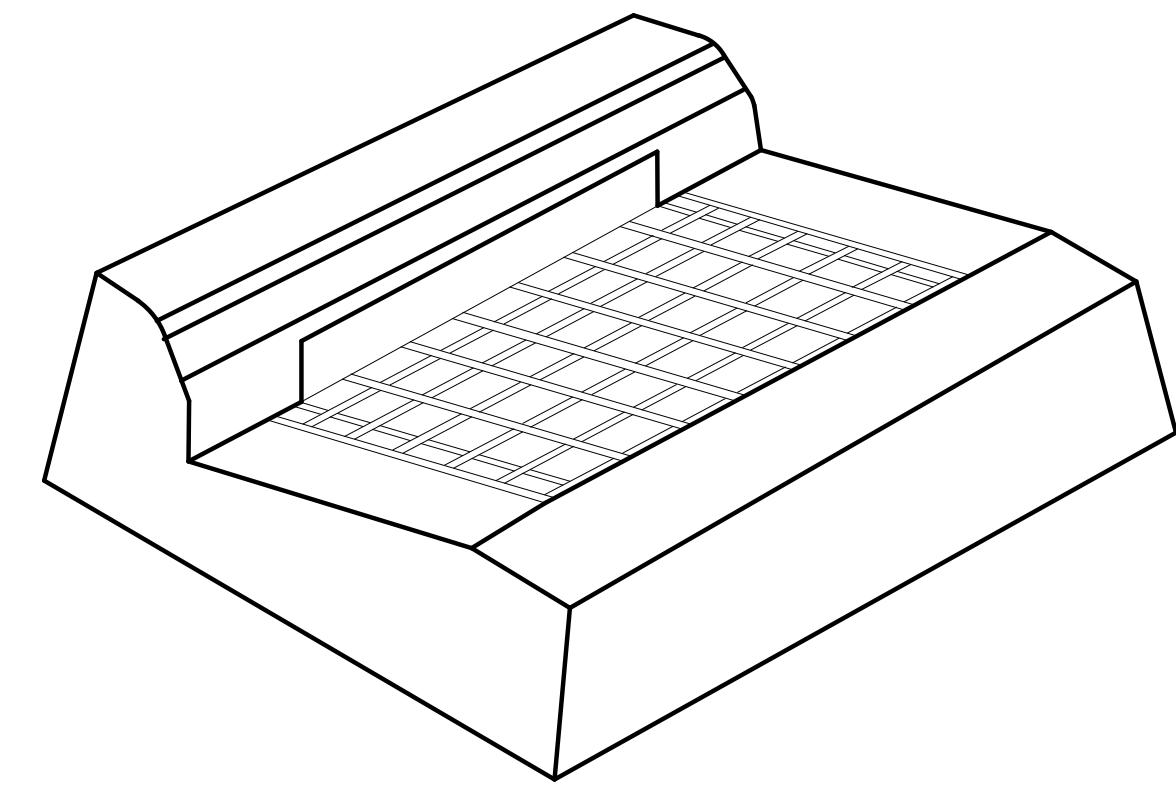
GENERAL NOTES:

- SEE SHEET HW-586_08 FOR CATCH BASIN FRAMES AND GRATES AND HW-586_09 FOR CATCH BASIN LOCK DOWN TOPS.
- 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.
- ALL BARS SHALL HAVE A MINIMUM 2" COVER.
- Manufacturing Dimensional Tolerance Table

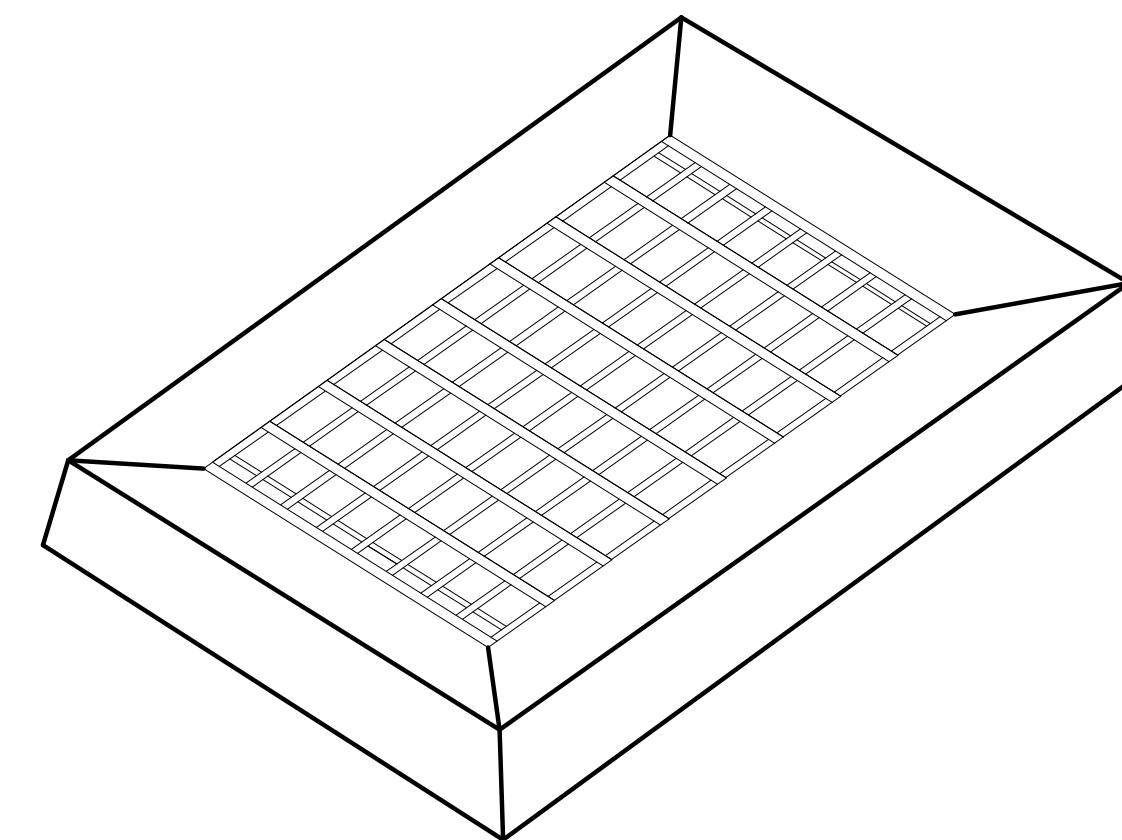
Any Dimension (D)	Allowable Tolerance
D < 5"	± 1/4"
5" ≤ D ≤ 10"	± 1/2"
D > 10"	± 1"



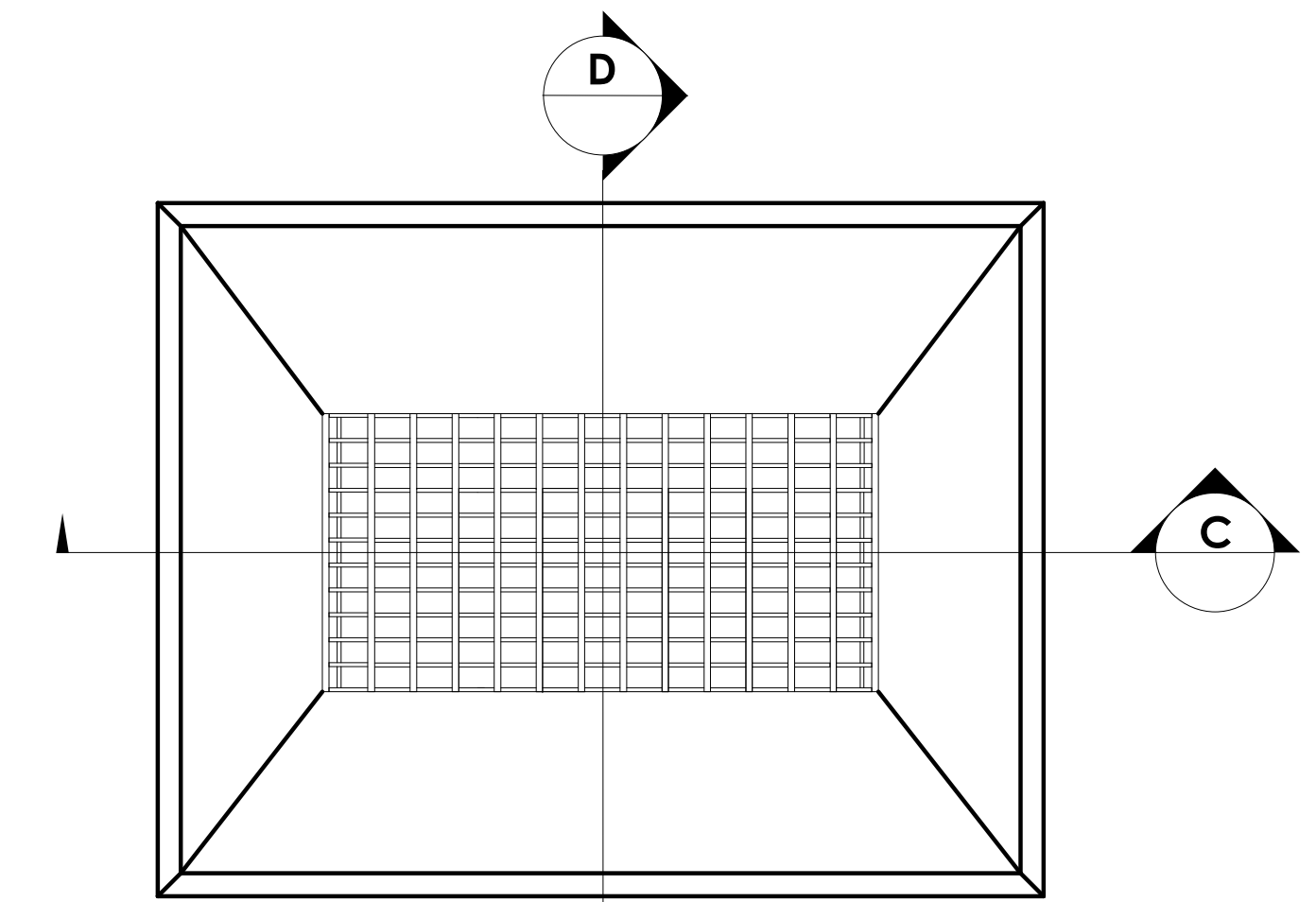
TYPE "C" CATCH BASIN TOP PLAN



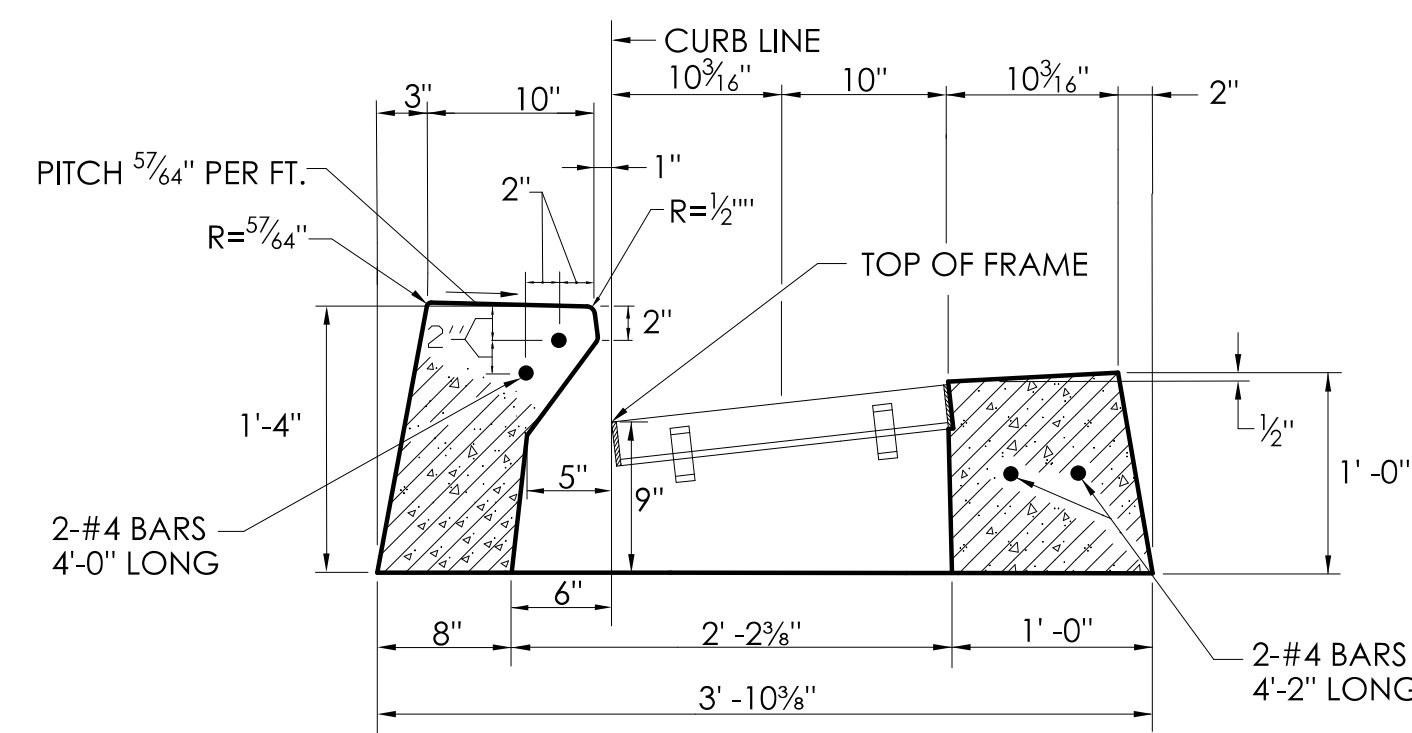
TYPE "C" CATCH BASIN TOP



TYPE "C-L" CATCH BASIN TOP

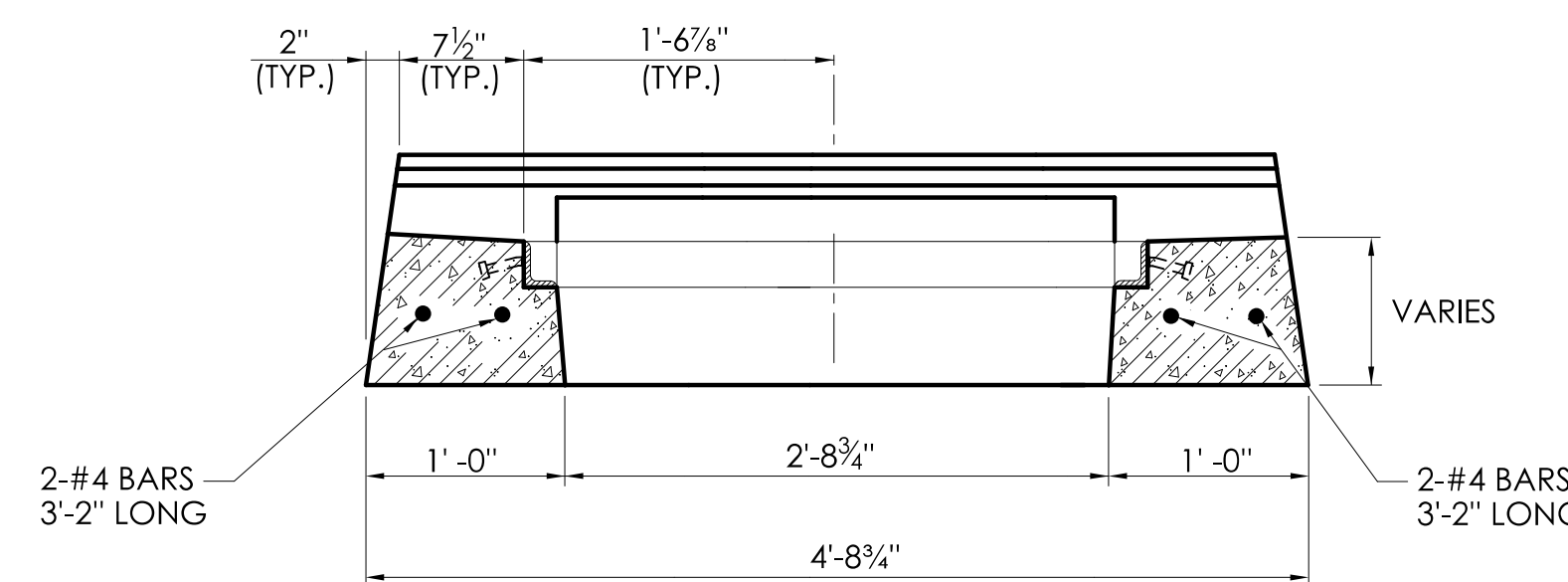


TYPE "C-L" CATCH BASIN TOP PLAN



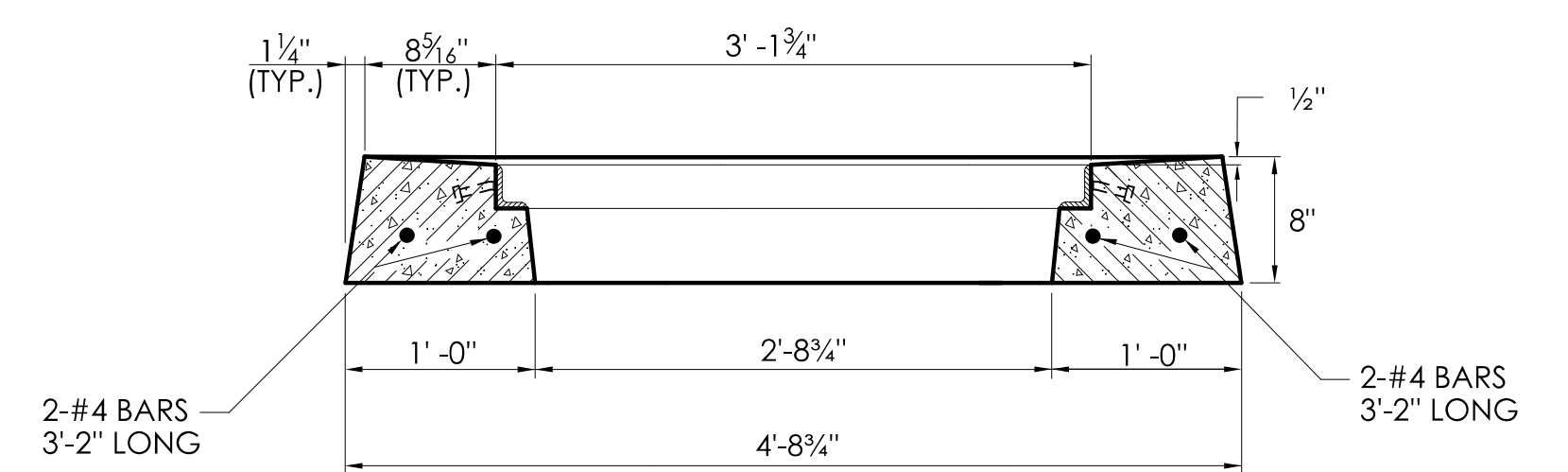
TYPE "C" CATCH BASIN TOP FOR 6" CONCRETE CURBING OR 6" STONE CURBING

SECTION B



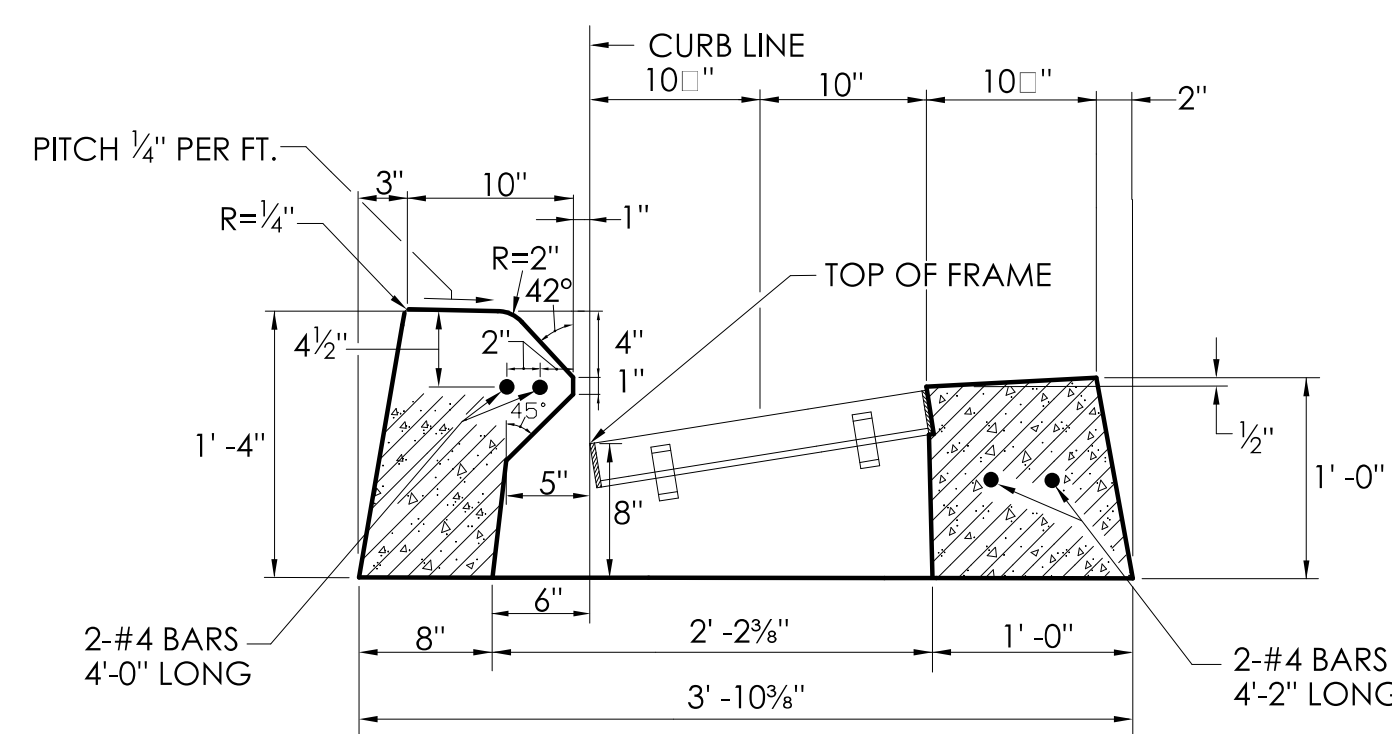
TYPE "C" CATCH BASIN TOP SECTION A

SECTION A



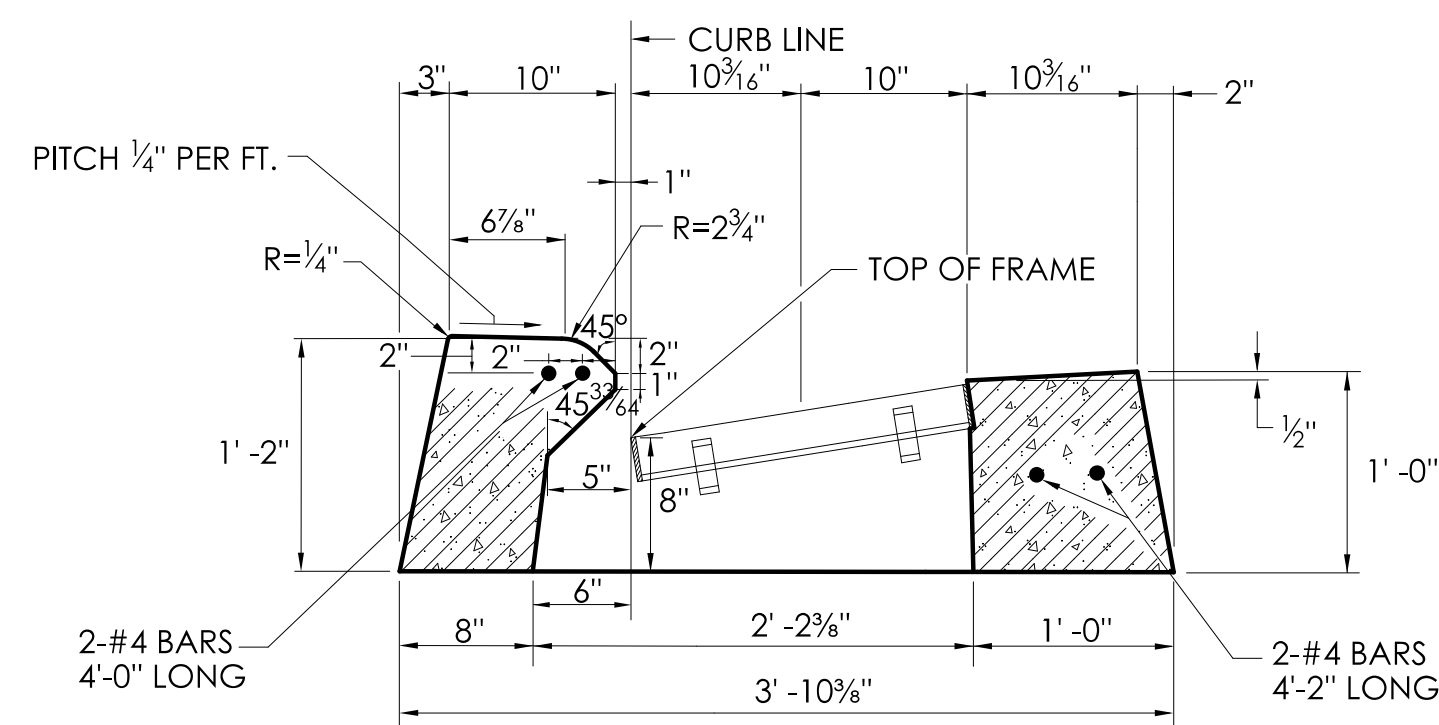
TYPE "C-L" CATCH BASIN TOP SECTION C

SECTION C



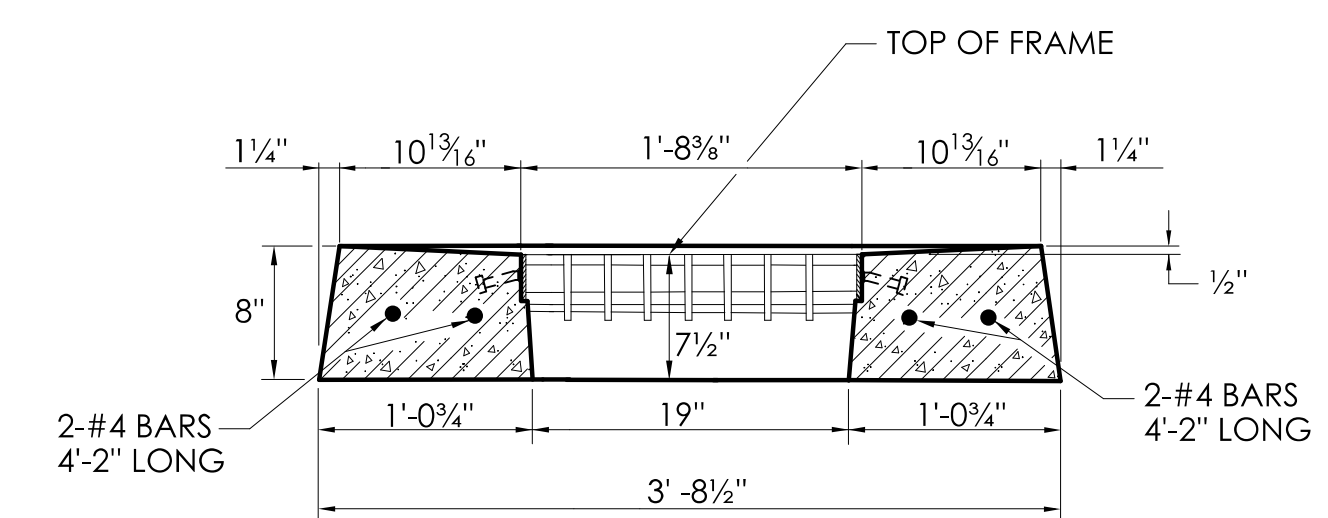
TYPE "C" CATCH BASIN TOP FOR 6" BITUMINOUS CONCRETE LIP CURBING

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 D

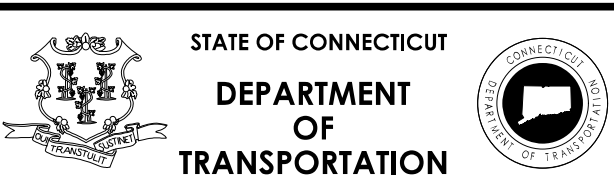
SECTION D

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
14:17:48-0400

APPROVED BY:
Digitally signed by
Michael J. Calabrese
Date: 2022.11.09
13:53:03-0500

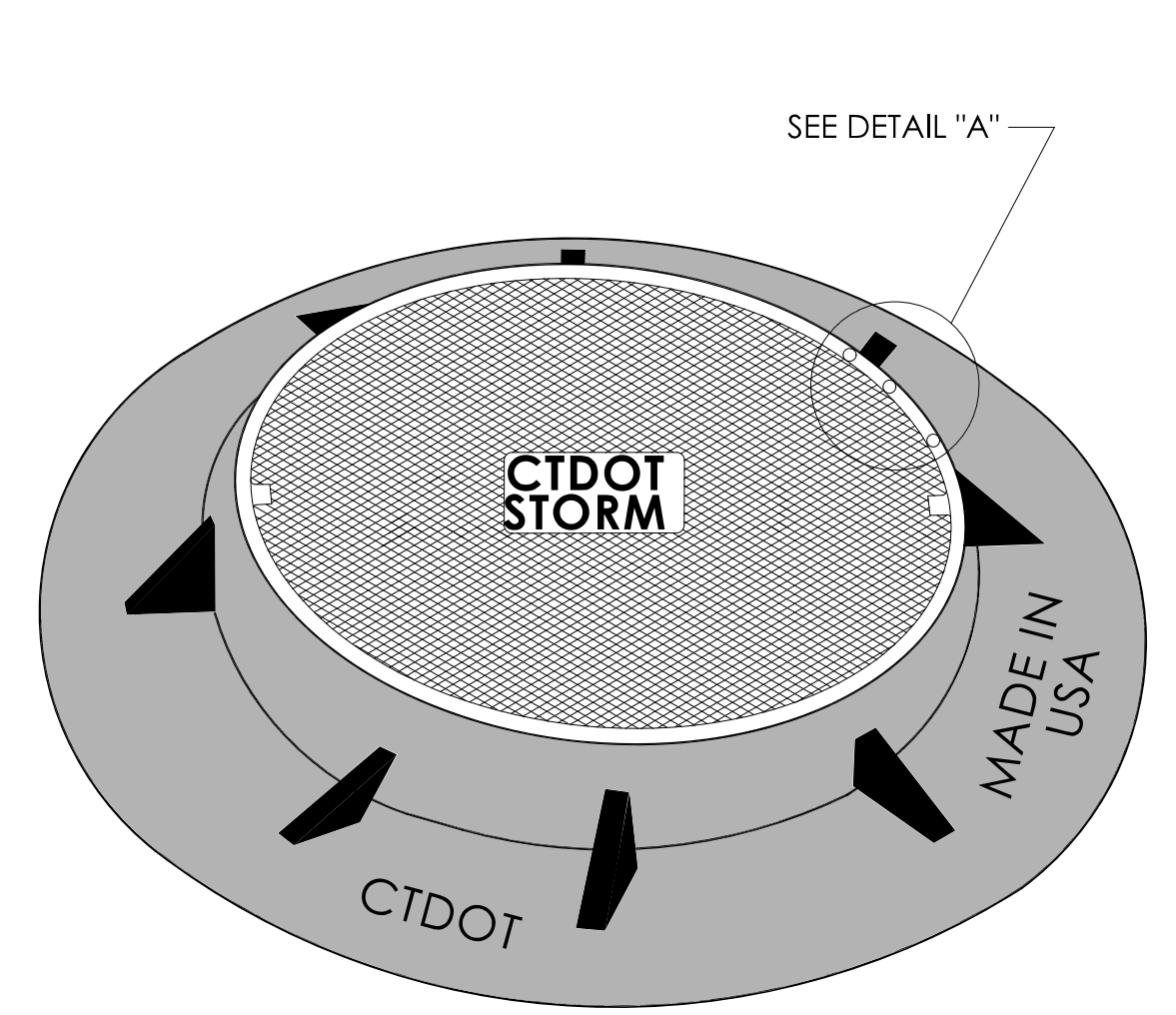


CTDOT
STANDARD SHEET

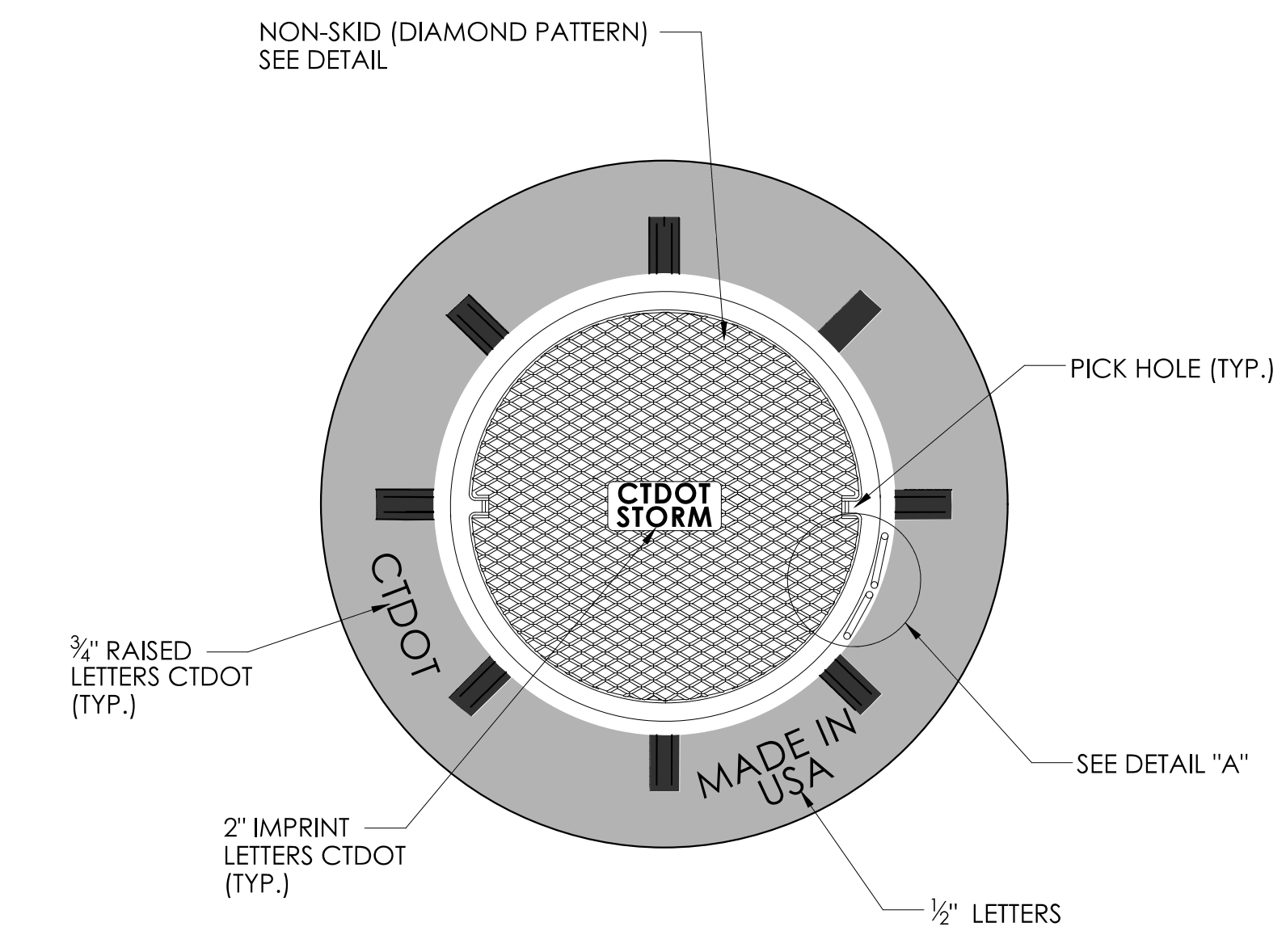
STANDARD SHEET TITLE:
CATCH BASIN TYPE "C" AND "C-L" TOPS

STANDARD SHEET NO.:
HW- 586_07a

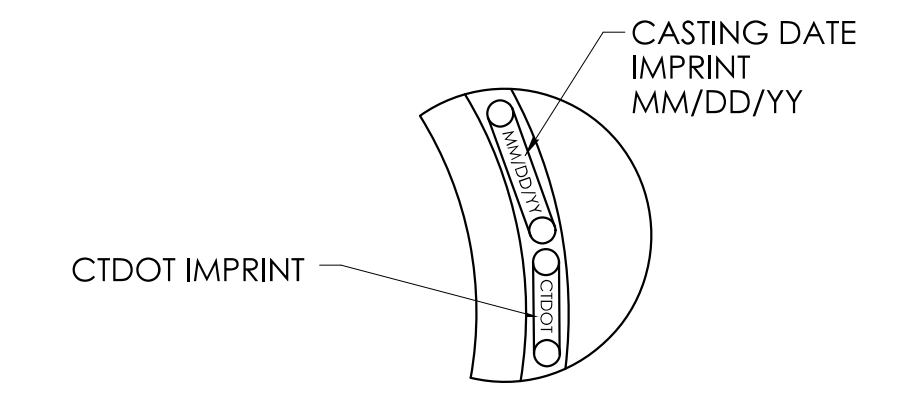
- GENERAL NOTES:**
1. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
 2. CASTING DATE SHALL BE INDICATED ON EACH: FRAME (SEE DETAIL A) AND COVER (PLACED ON UNDERSIDE).



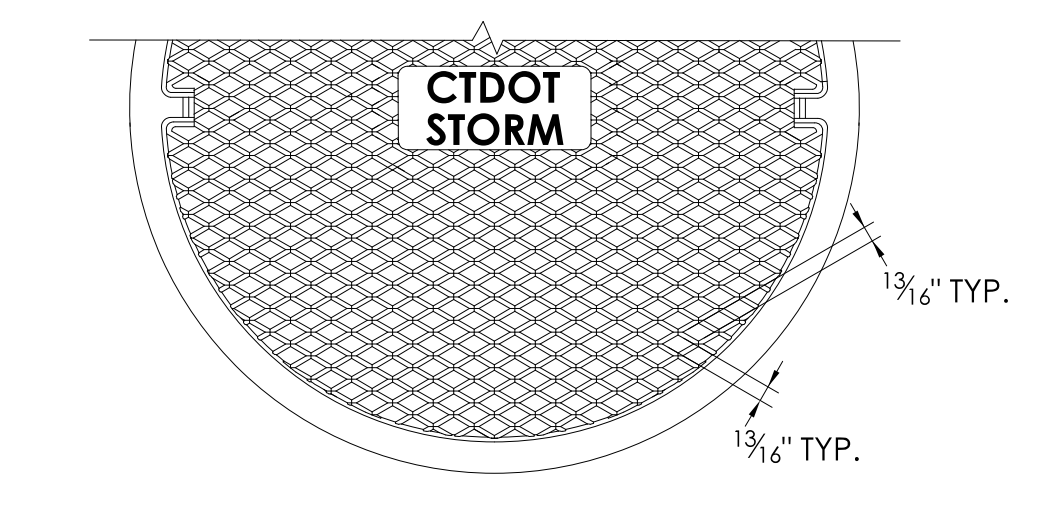
MANHOLE FRAME AND COVER



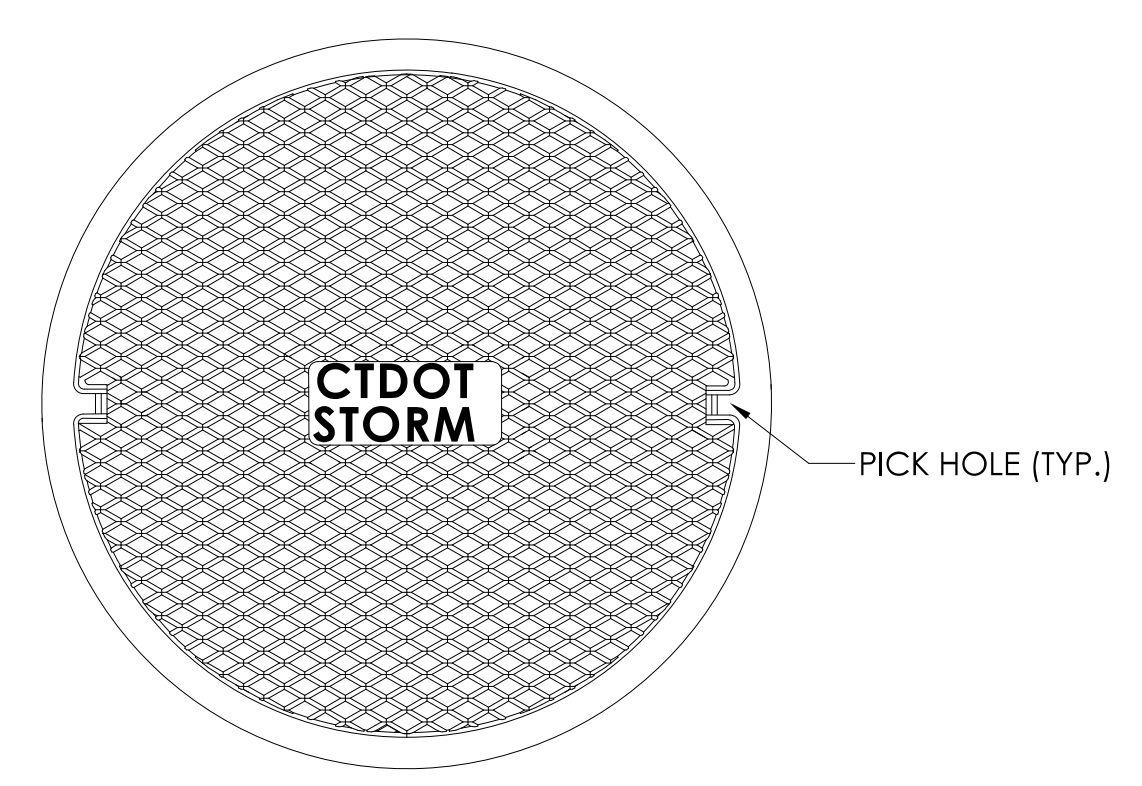
PLAN



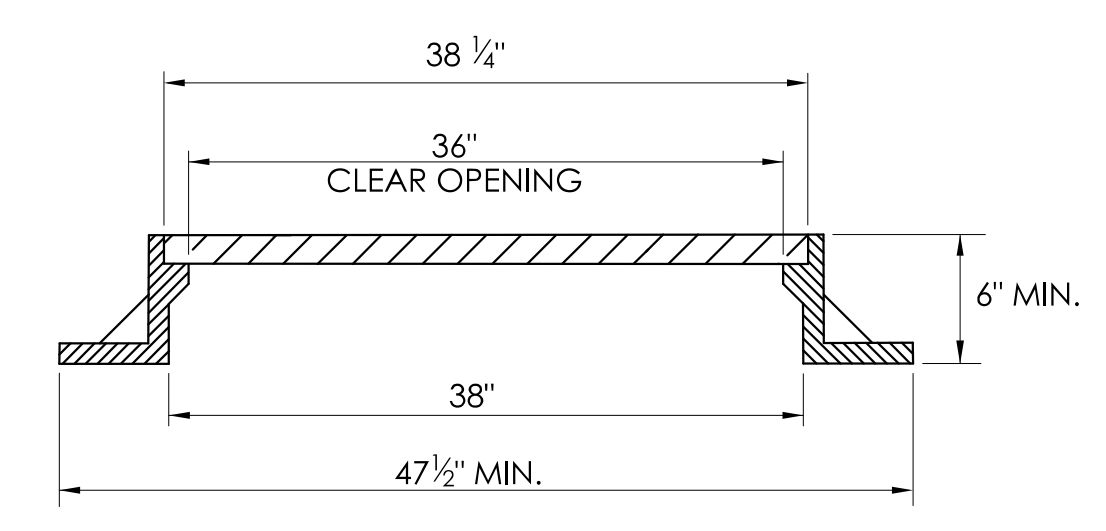
DETAIL "A"



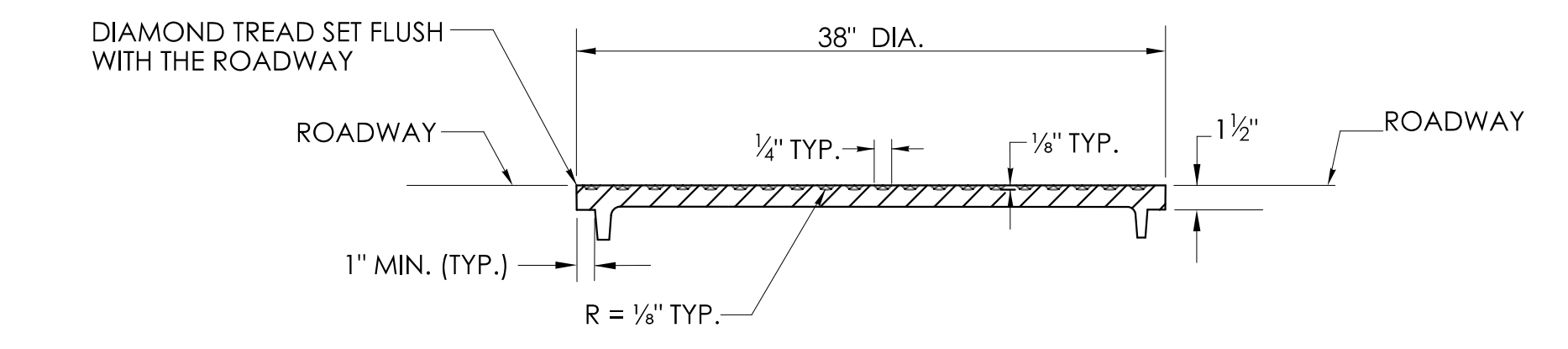
DIAMOND PATTERN PLAN



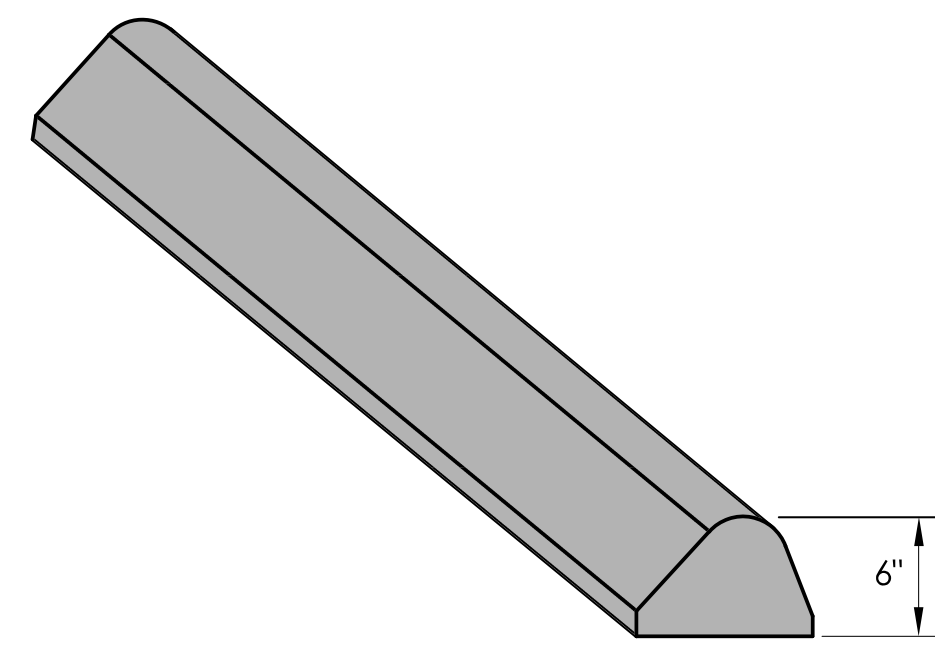
MANHOLE COVER PLAN



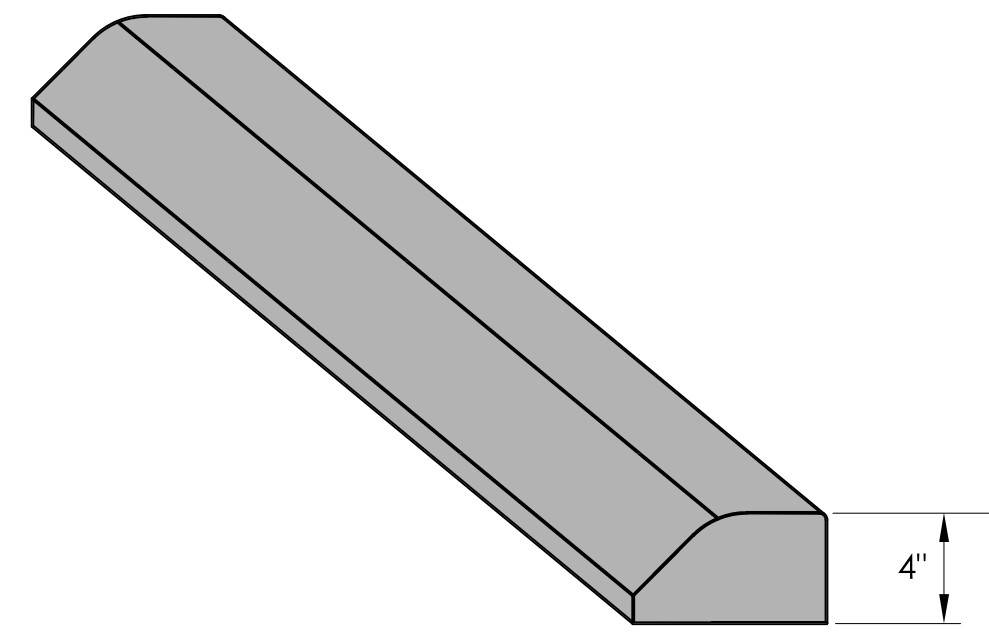
MANHOLE FRAME AND COVER



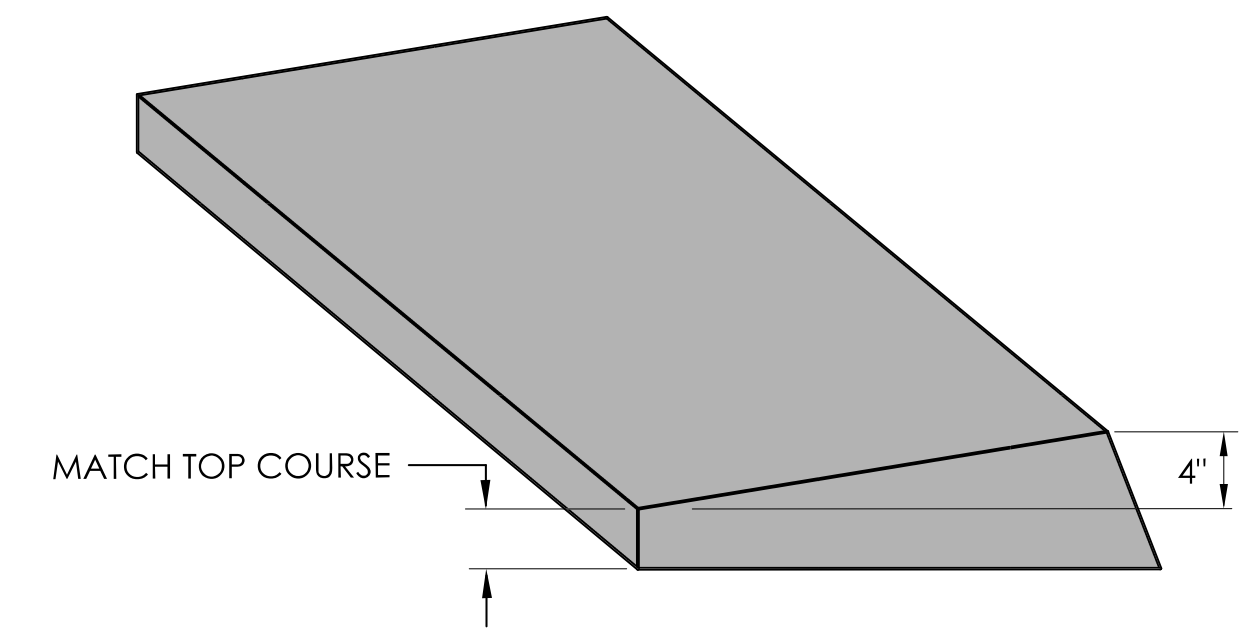
MANHOLE COVER WITH DIAMOND PATTERN



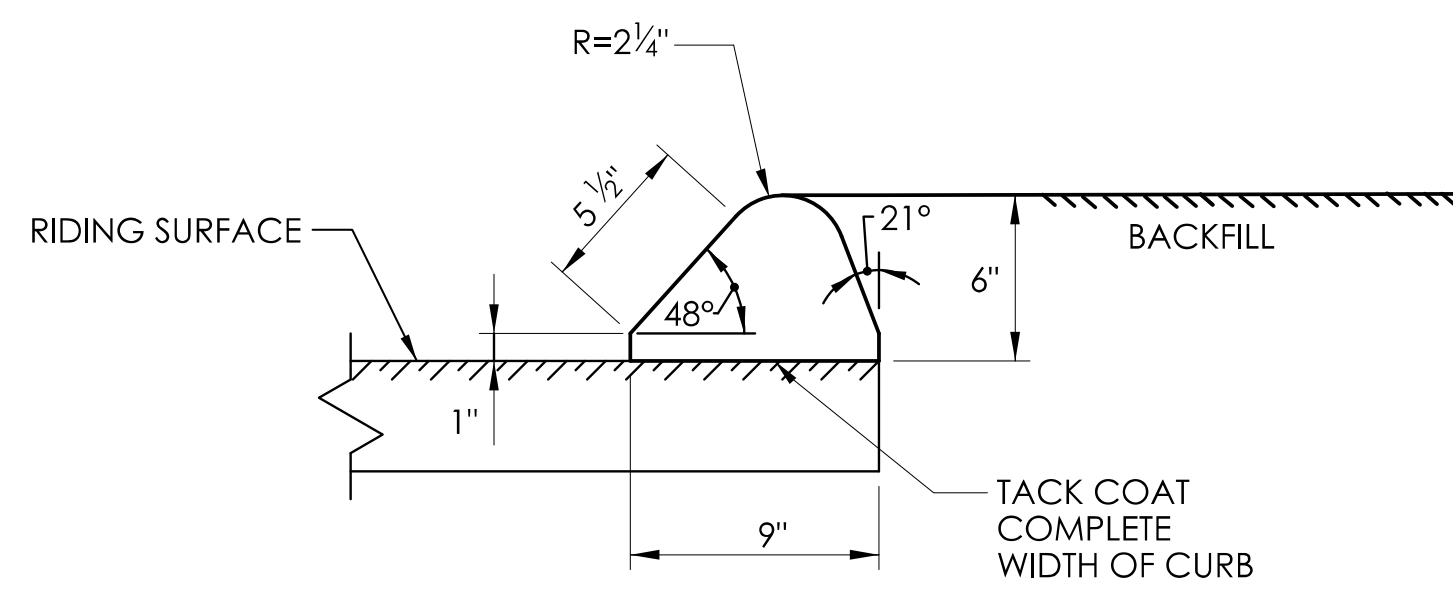
**BITUMINOUS CONCRETE LIP CURBING
(6" HIGH)**



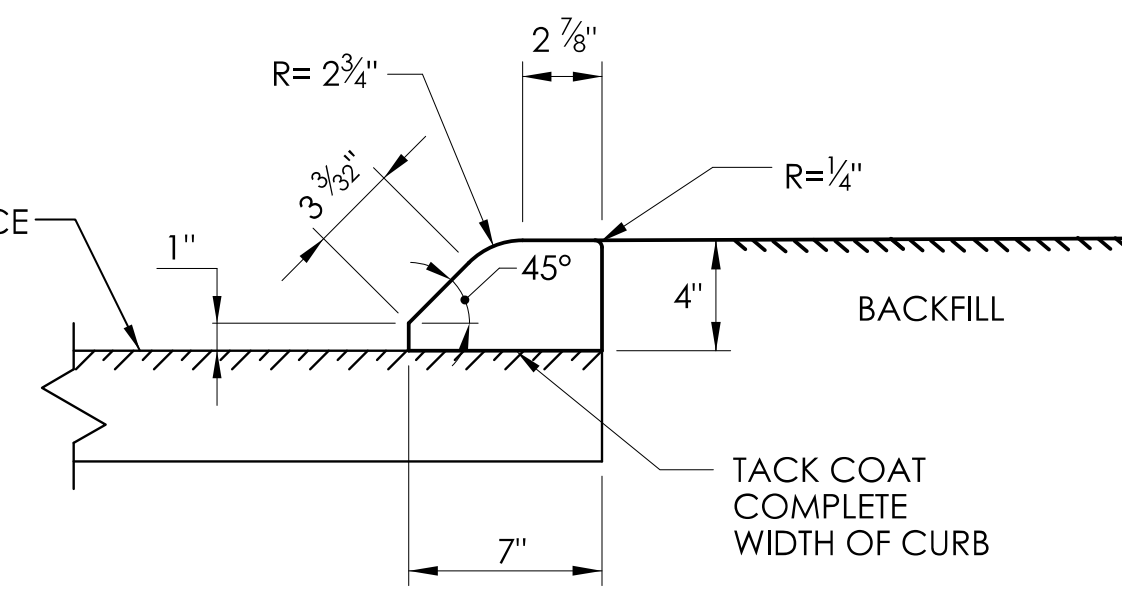
**BITUMINOUS CONCRETE PARK CURBING
(4" HIGH)**



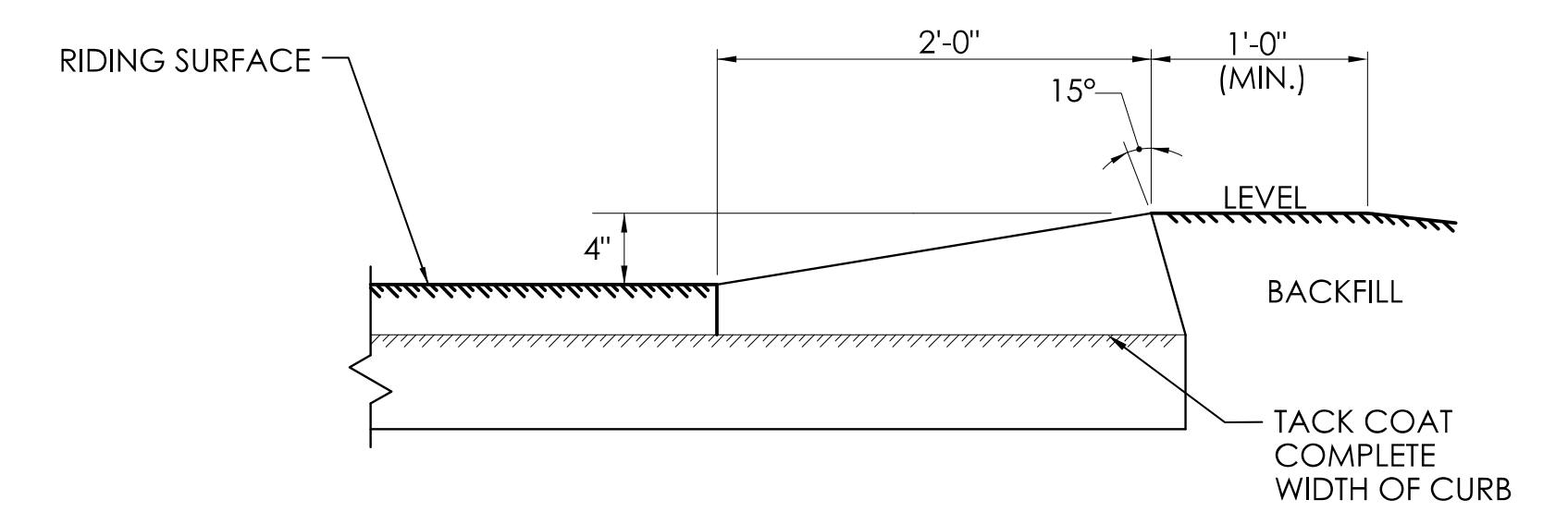
**BITUMINOUS CONCRETE BERM CURBING
(4" HIGH)**



SECTION



SECTION



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
14:43:18-04'00'

APPROVED BY:
Digitally signed
by Calabrese,
Michael
Date: 2022.11.08
11:39:39-05'00'

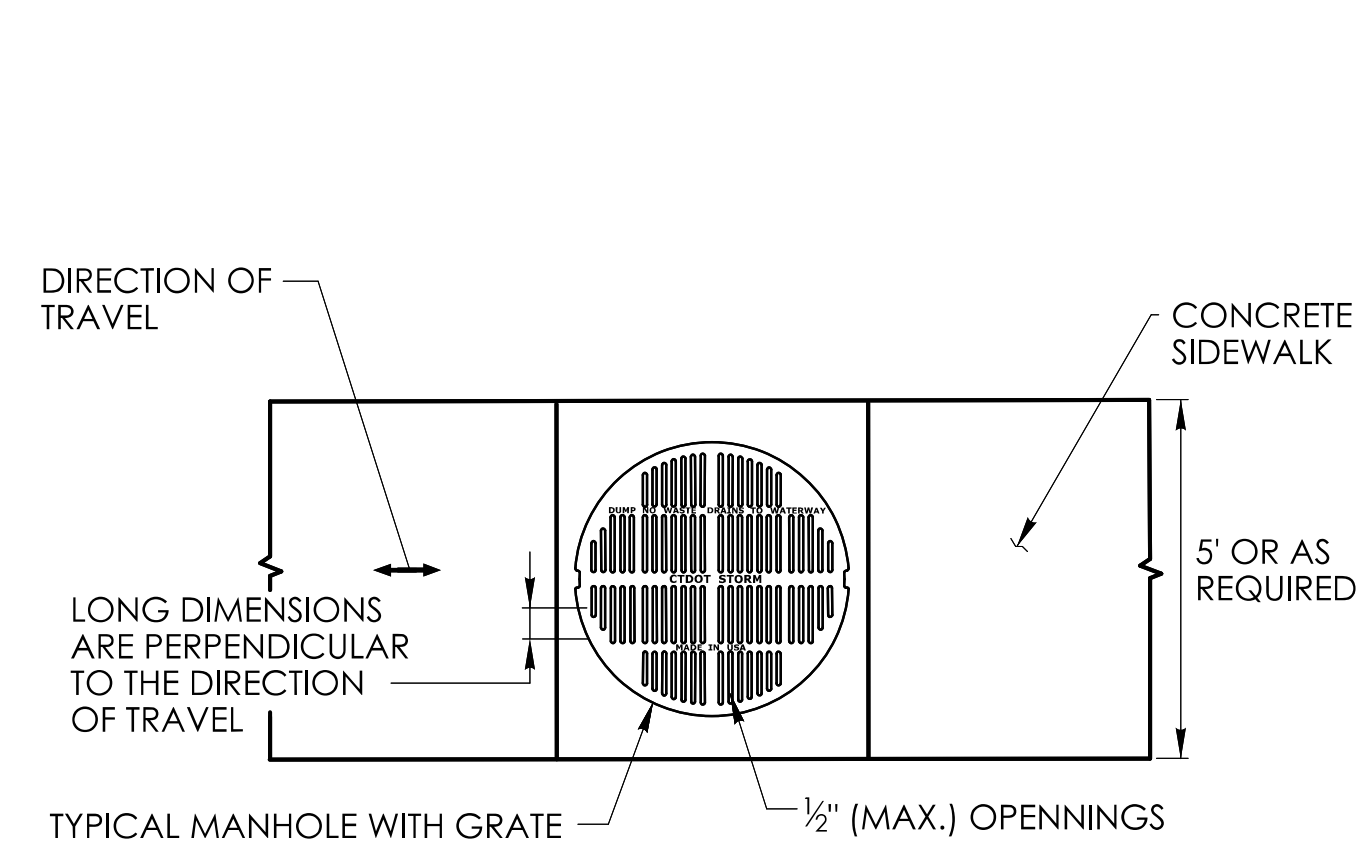


**CTDOT
STANDARD SHEET**

STANDARD SHEET TITLE:
BITUMINOUS CONCRETE CURBING

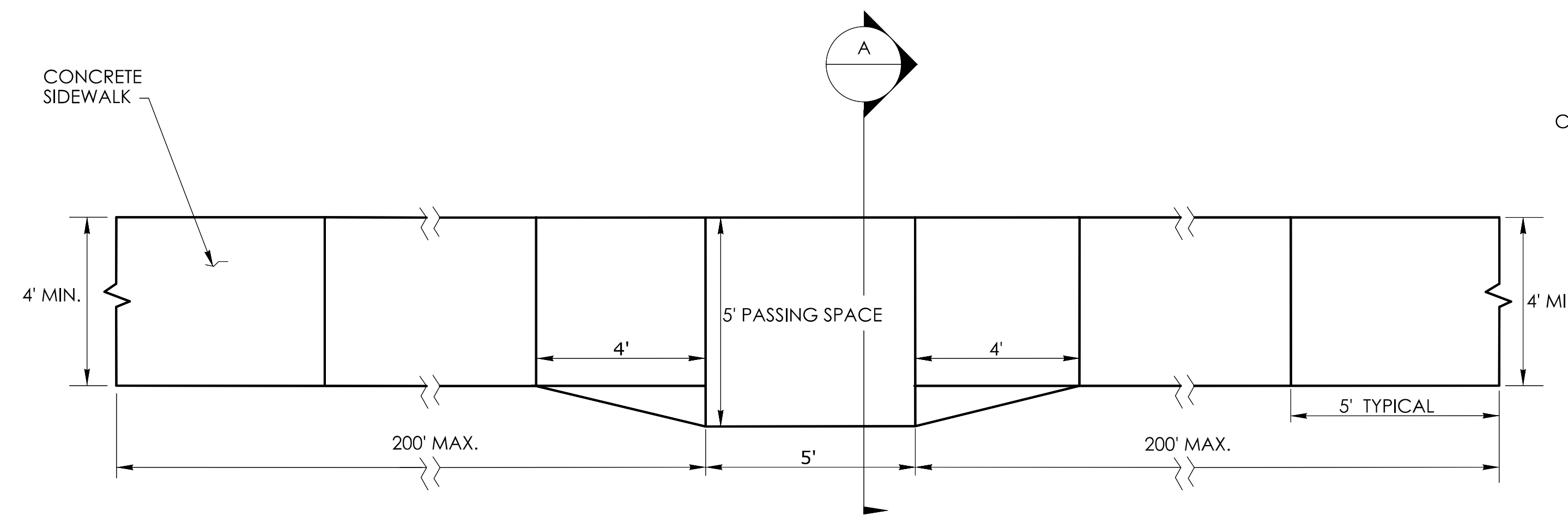
STANDARD SHEET NO.:
HW-815_01

- 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.



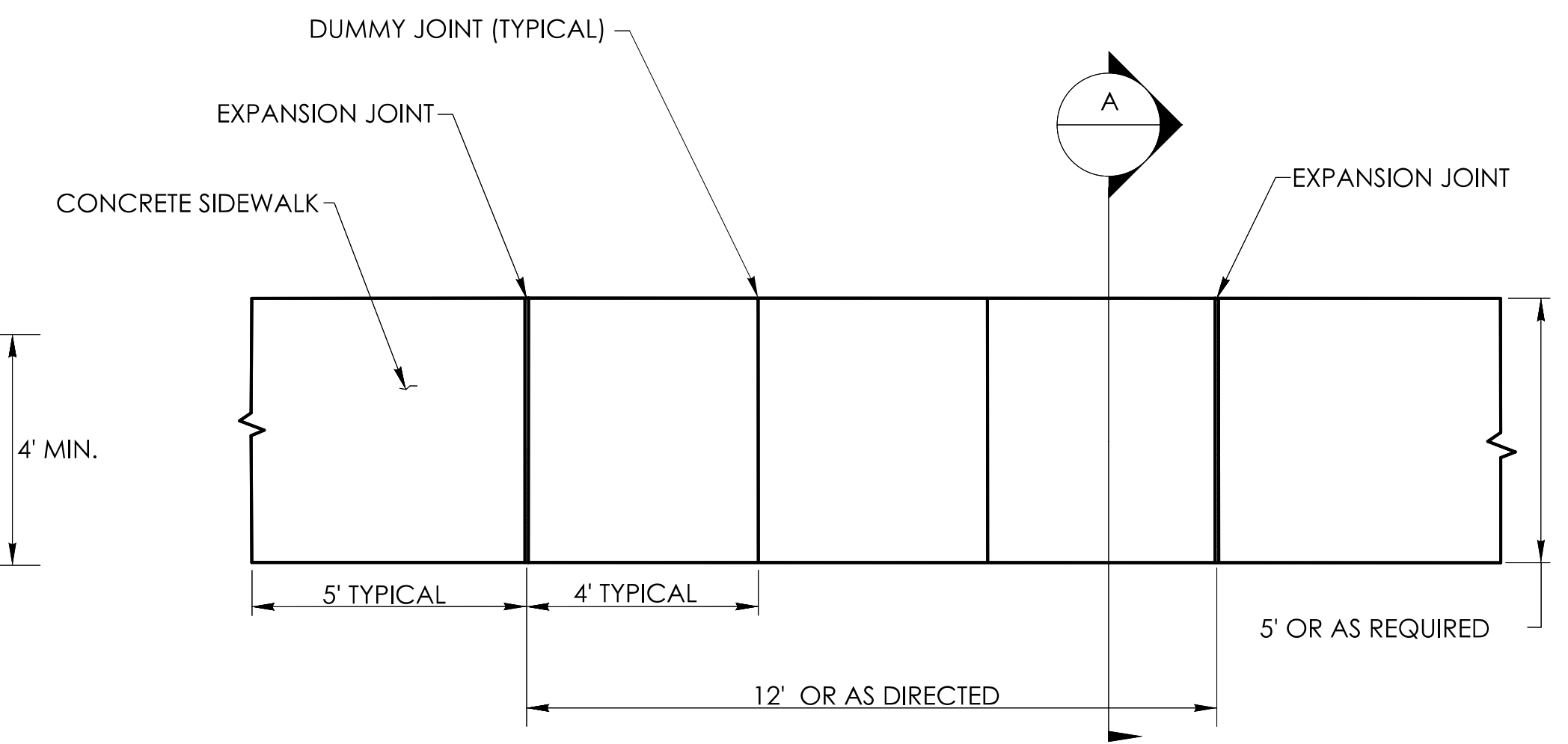
PEDESTRIAN ACCESS ROUTE OVER A MANHOLE WITH GRATE

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

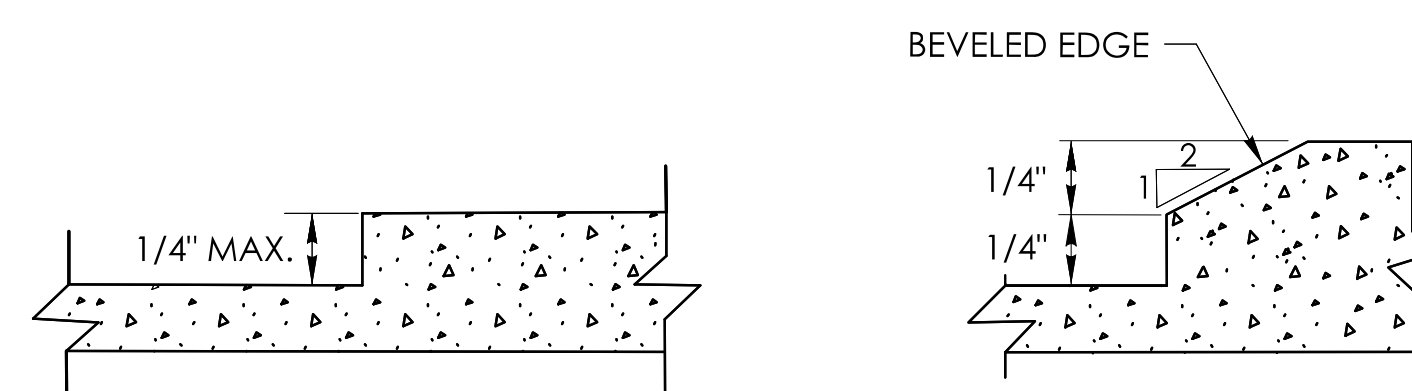


5' PASSING SPACE FOR 4' WIDE SIDEWALK PLAN

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

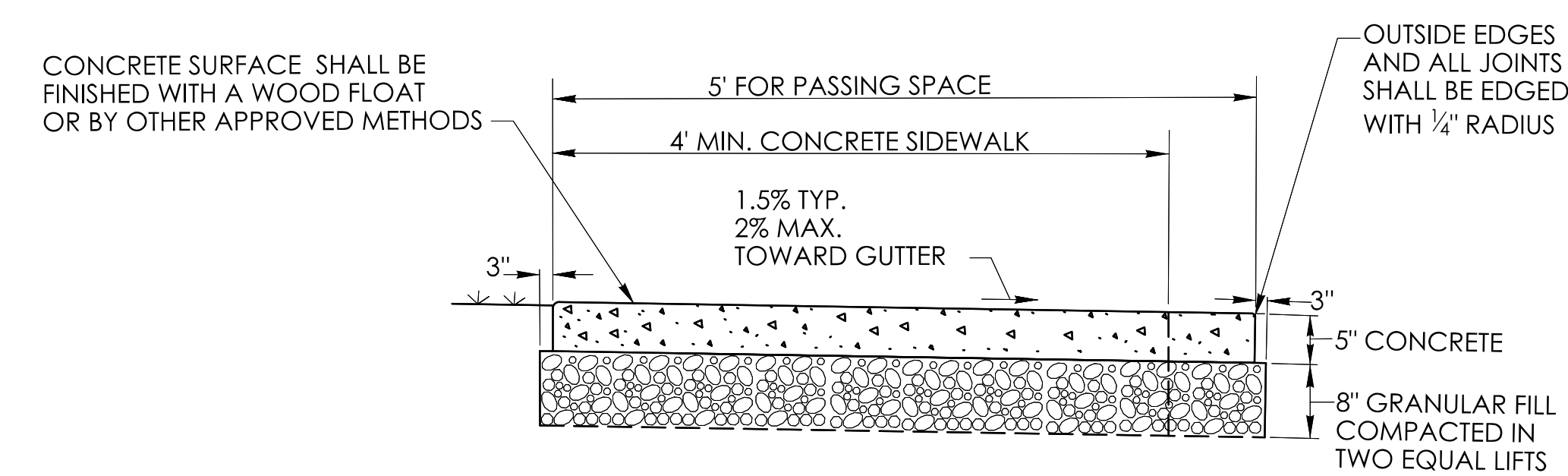


5' WIDE SIDEWALK PLAN



VERTICAL SURFACE DISCONTINUITIES

VERTICAL SURFACE DISCONTINUITIES MUST BE BEVELED TO A HEIGHT NOT GREATER THAN 1/4 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'

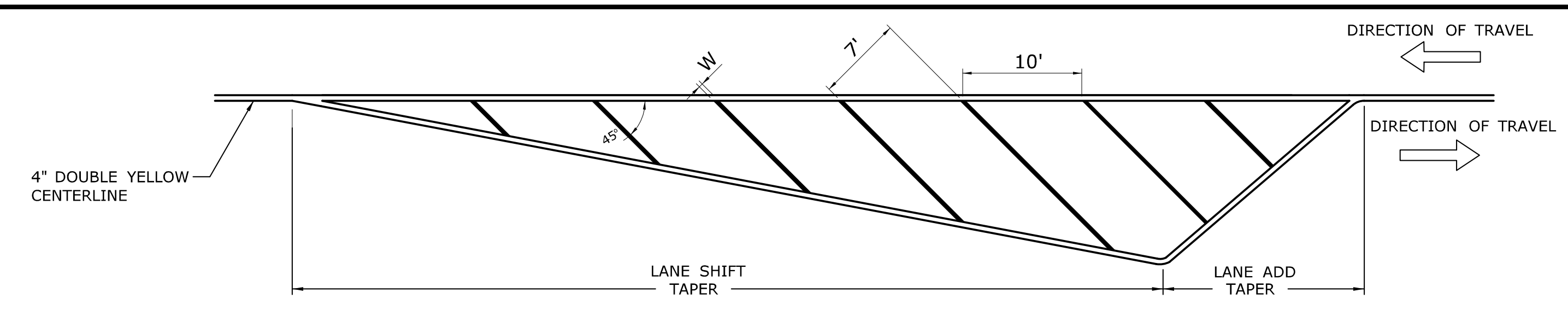
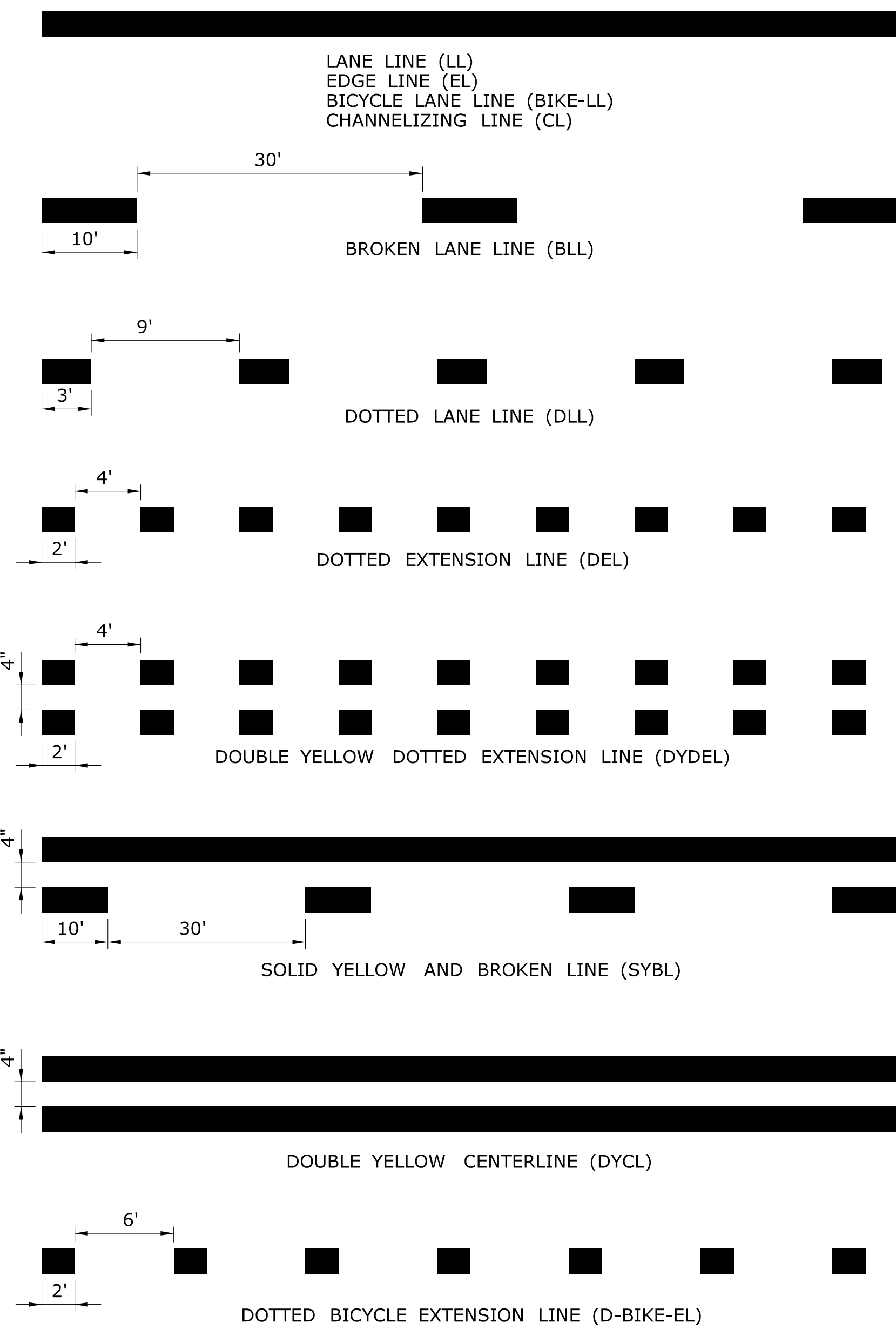
APPROVED BY:
Digitally signed by
Calistresse, Michael
Date: 2022.11.08
09:42:54-05'00'



CTDOT
STANDARD SHEET

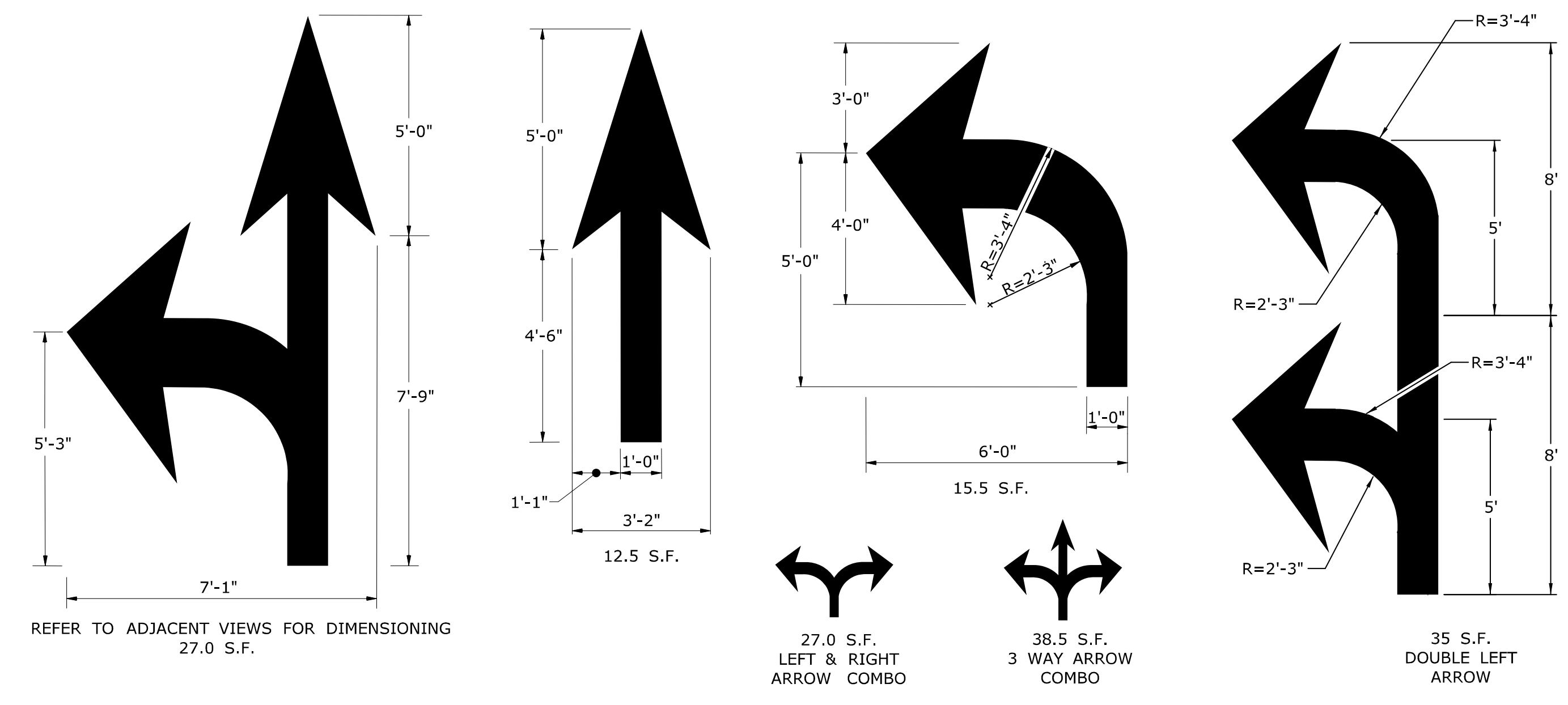
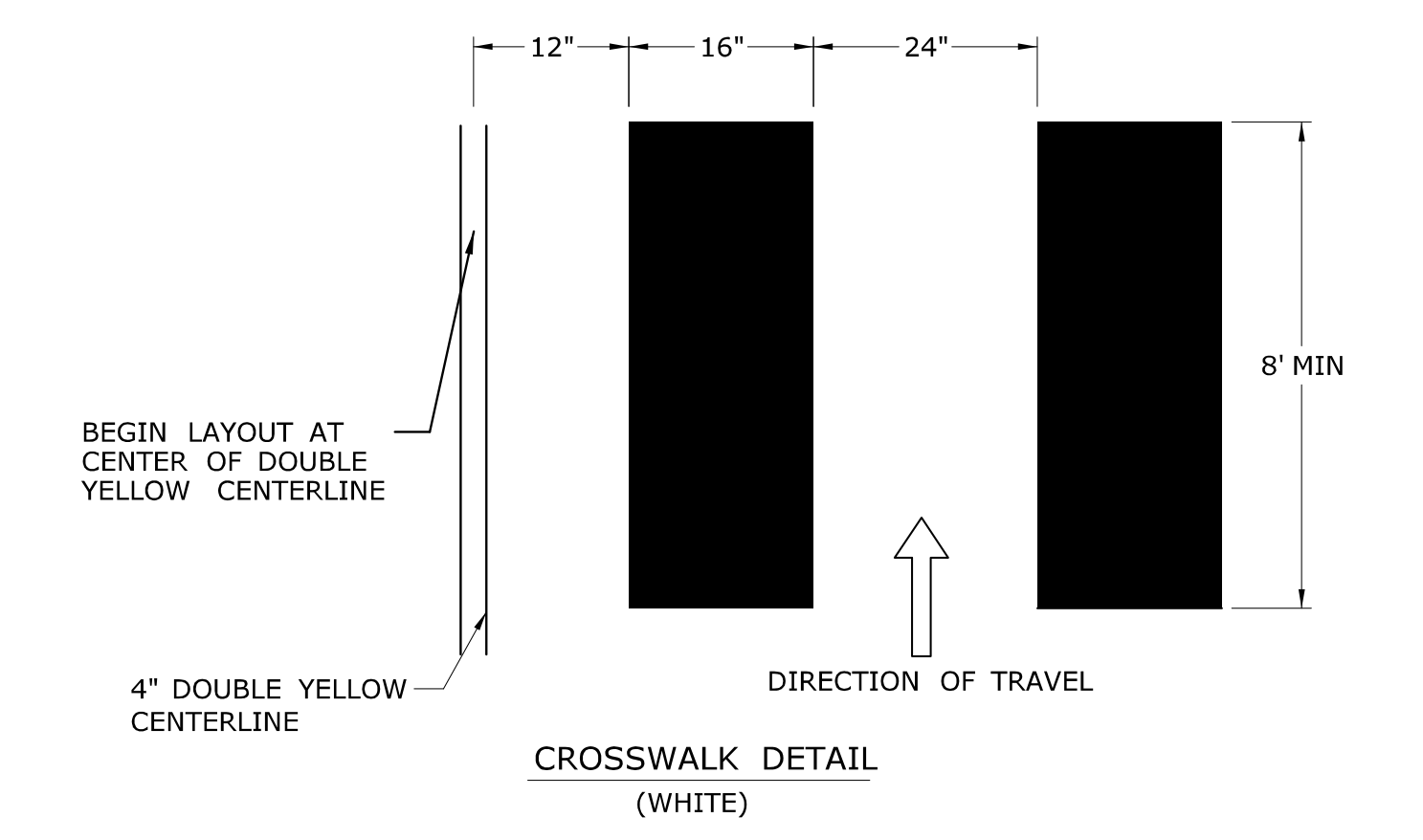
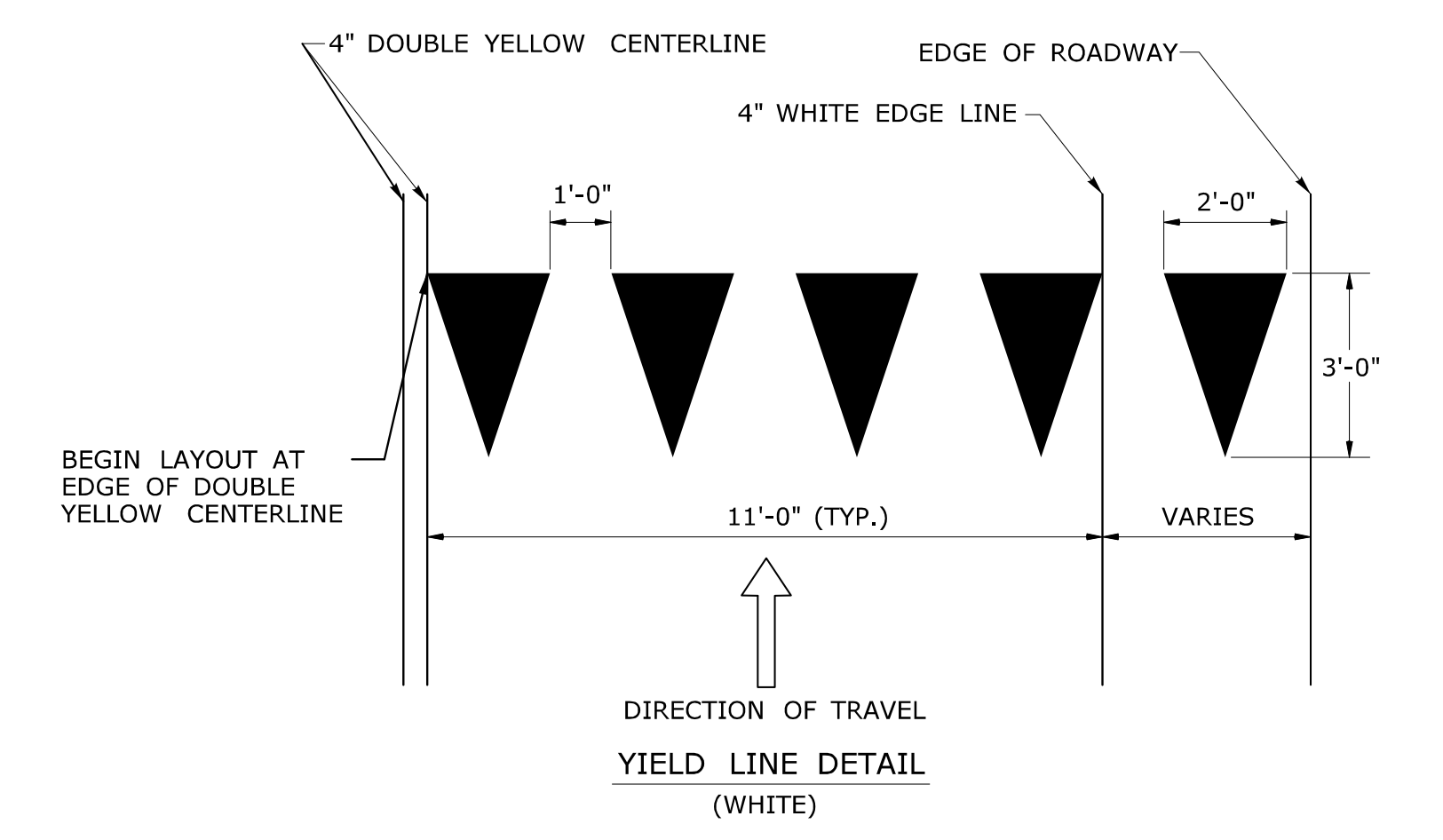
STANDARD SHEET TITLE:
CONCRETE SIDEWALKS

STANDARD SHEET NO.:
HW-921_01



CROSS HATCHED ISLAND DETAIL
(YELLOW)

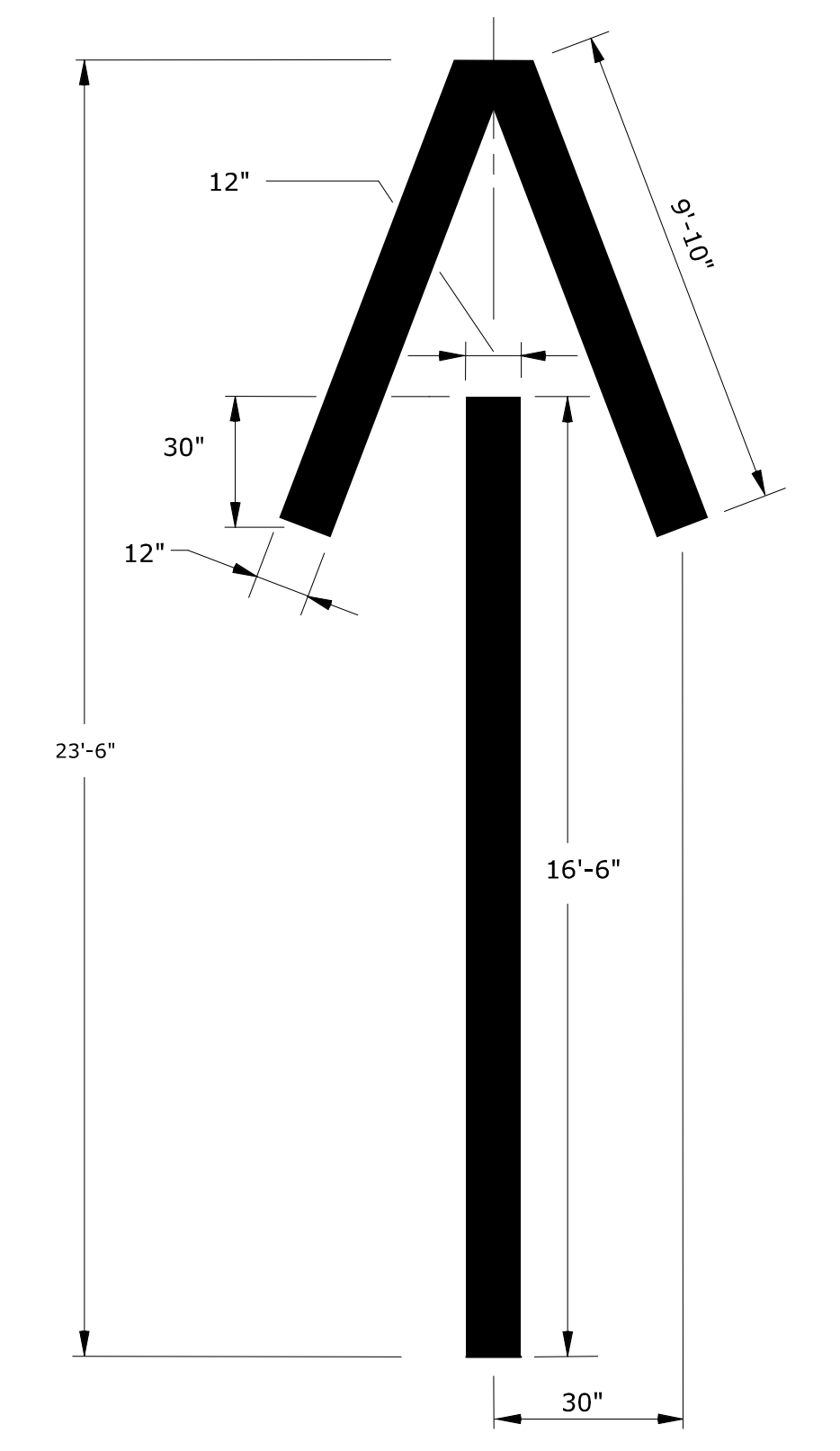
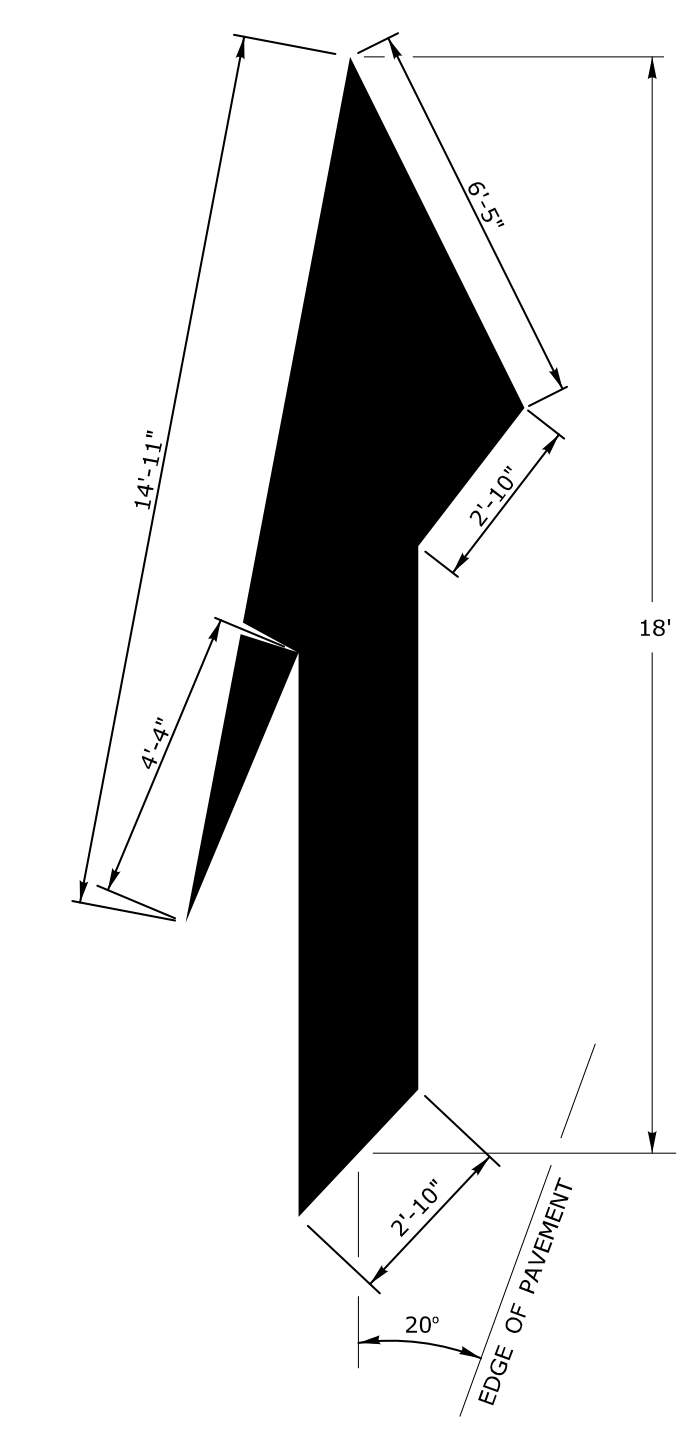
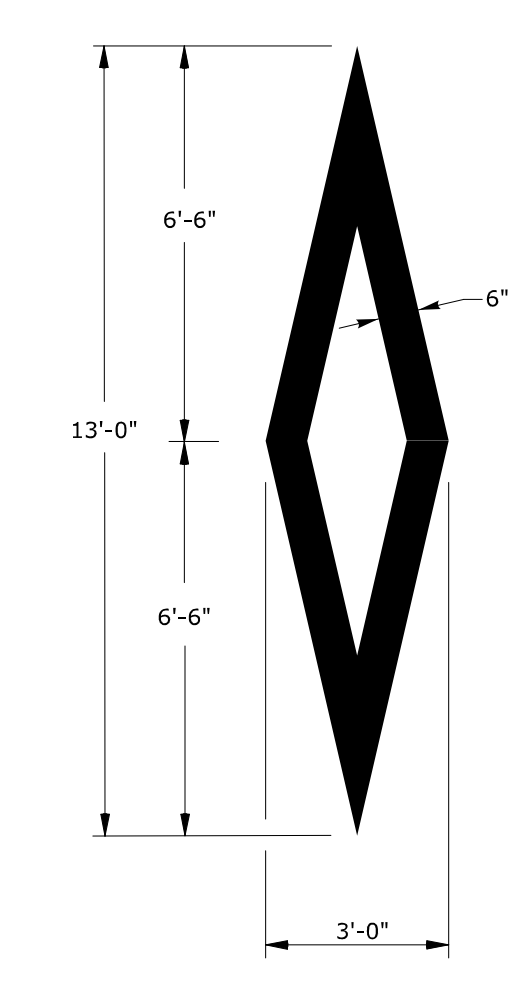
W IS TO BE 6" WHEN POSTED SPEED ≤ 45 MPH
W IS TO BE 12" WHEN POSTED SPEED > 45 MPH
CROSS HATCHED ISLANDS ARE TO BE INSTALLED WHERE CALLED FOR ON THE PLANS



PAVEMENT ARROW DETAILS
(WHITE)

ARROWS SHALL BE CENTERED IN TRAVEL LANE

- 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.



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

Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1210_04.dgn Model: CT-Civil2D-Sheet

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

**CTDOT
STANDARD SHEET**

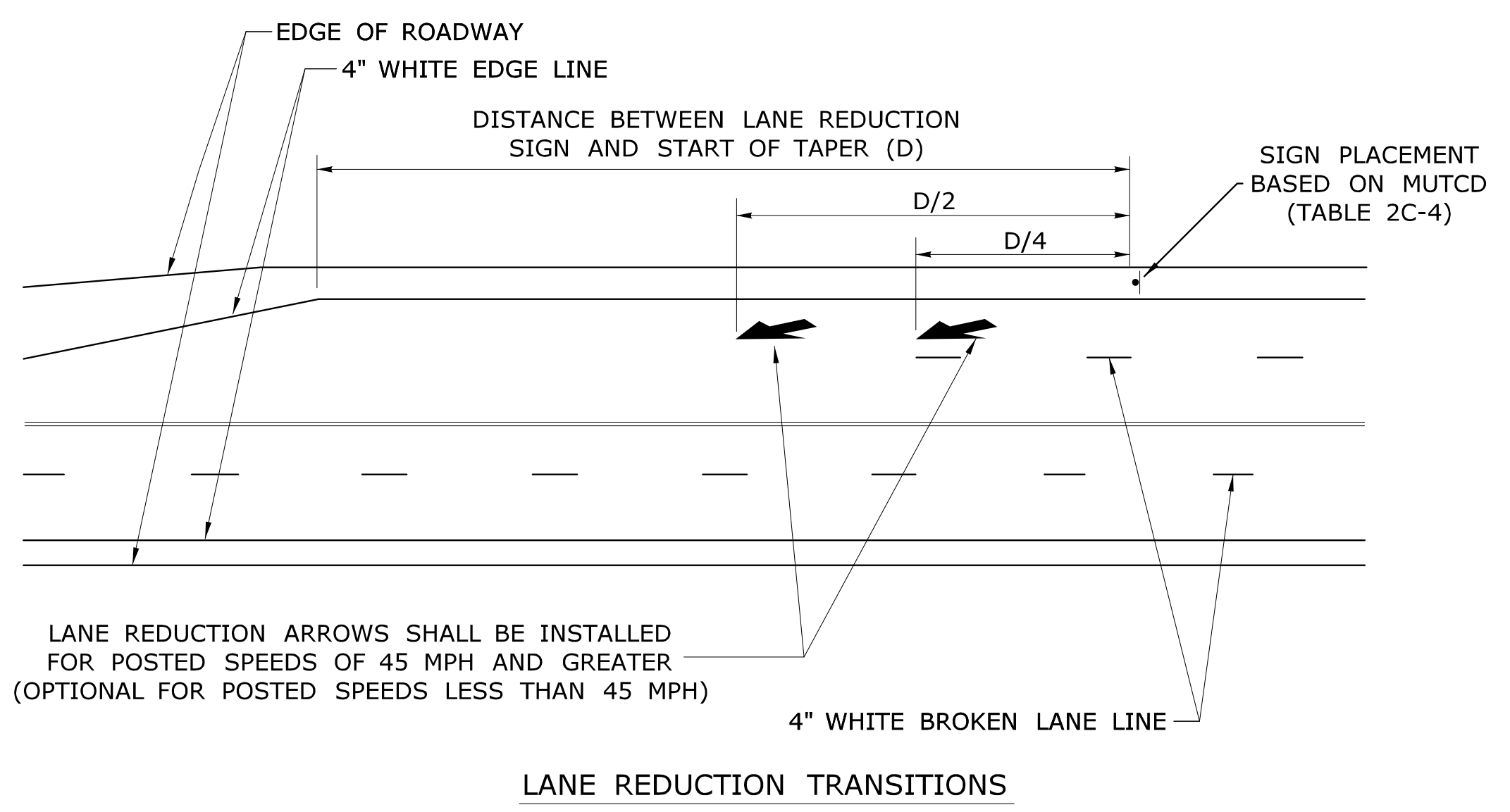
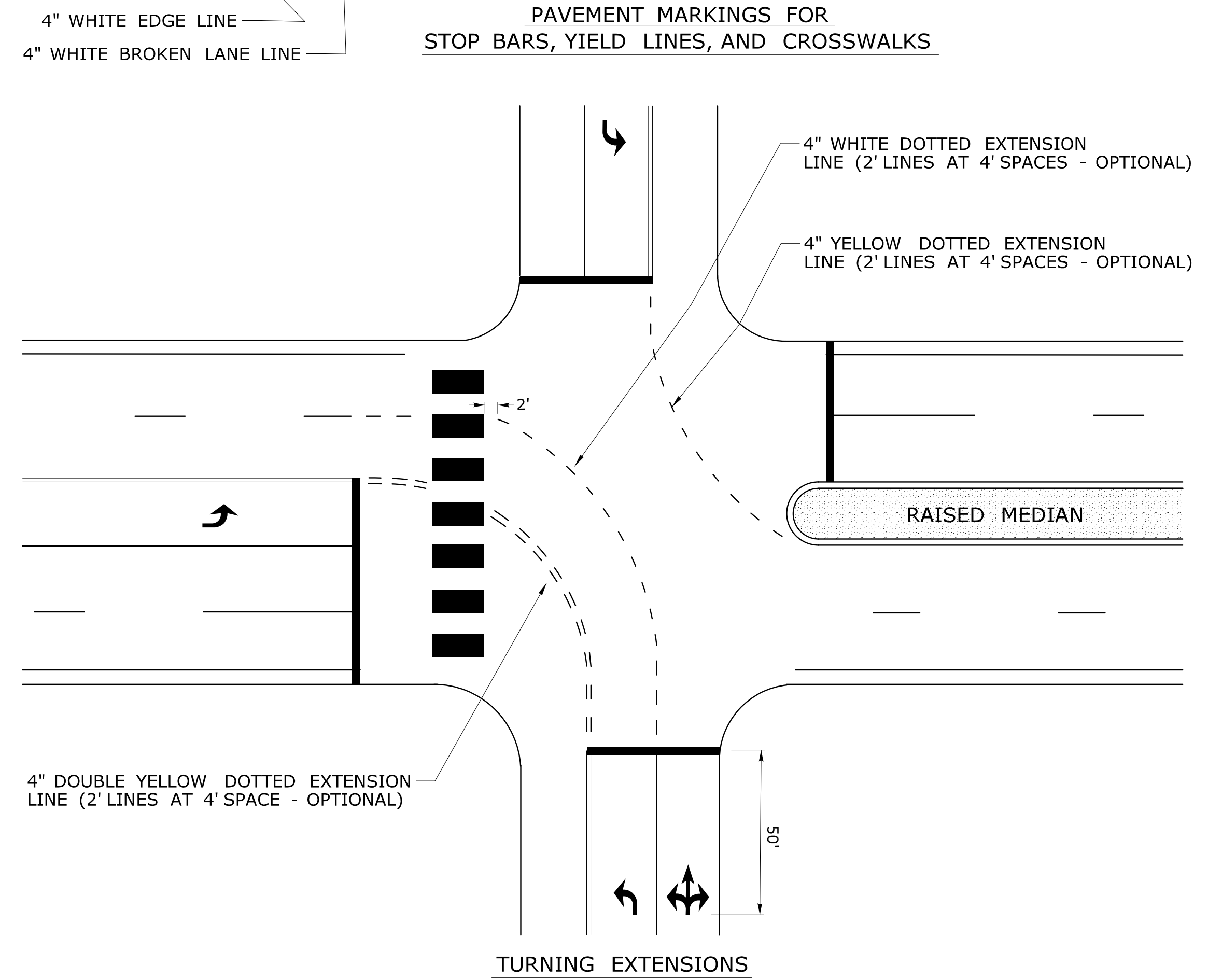
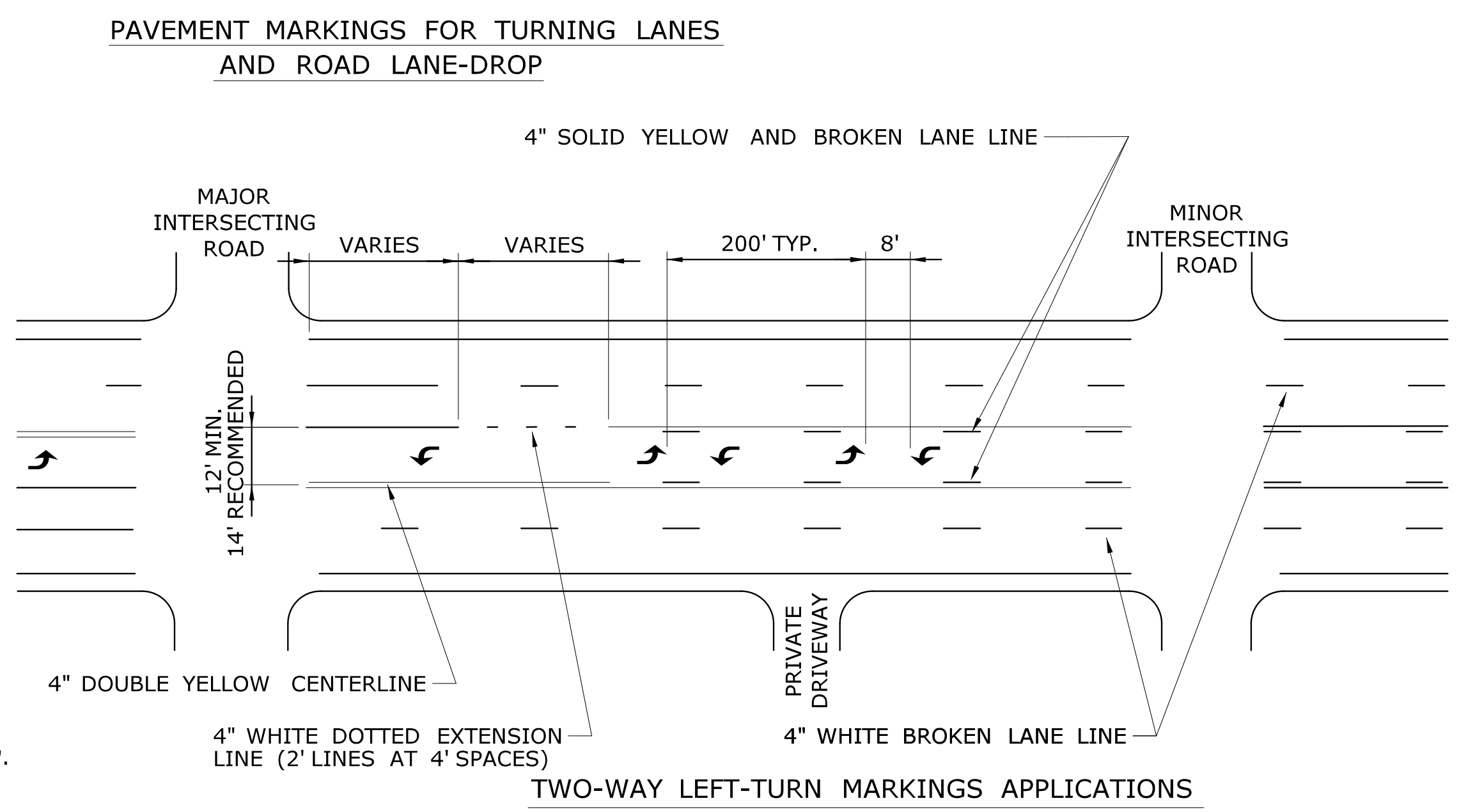
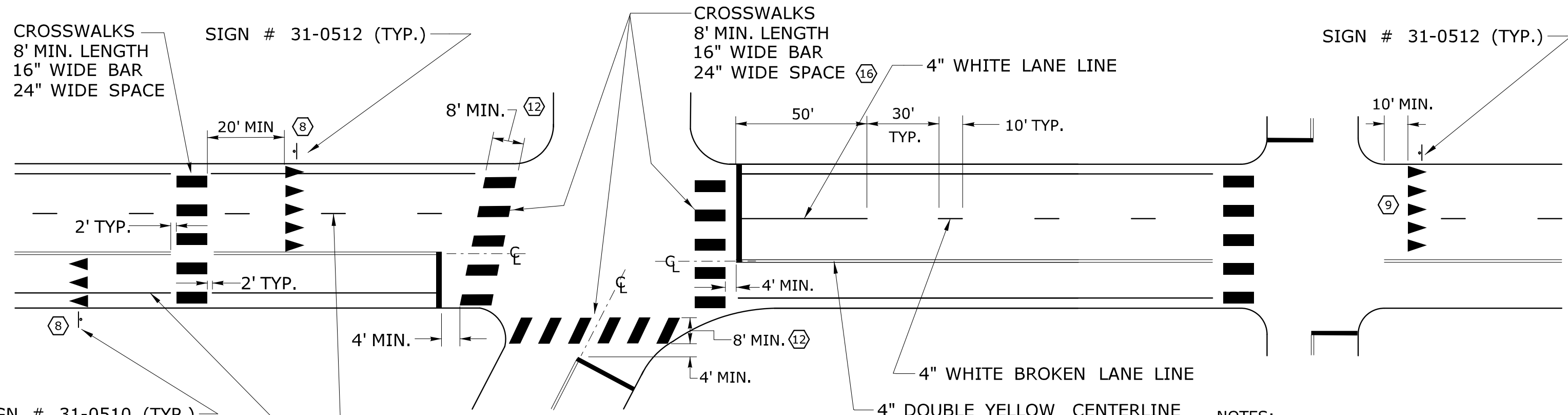
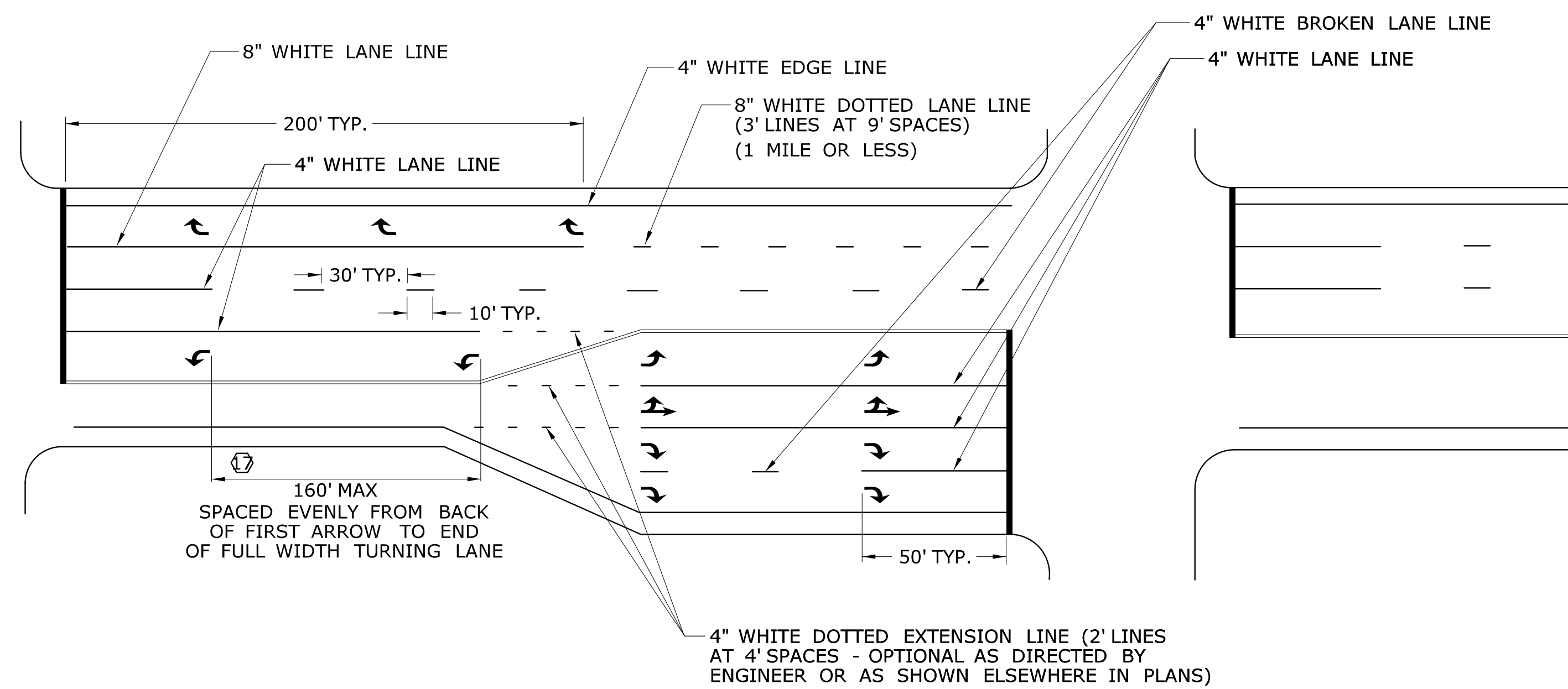
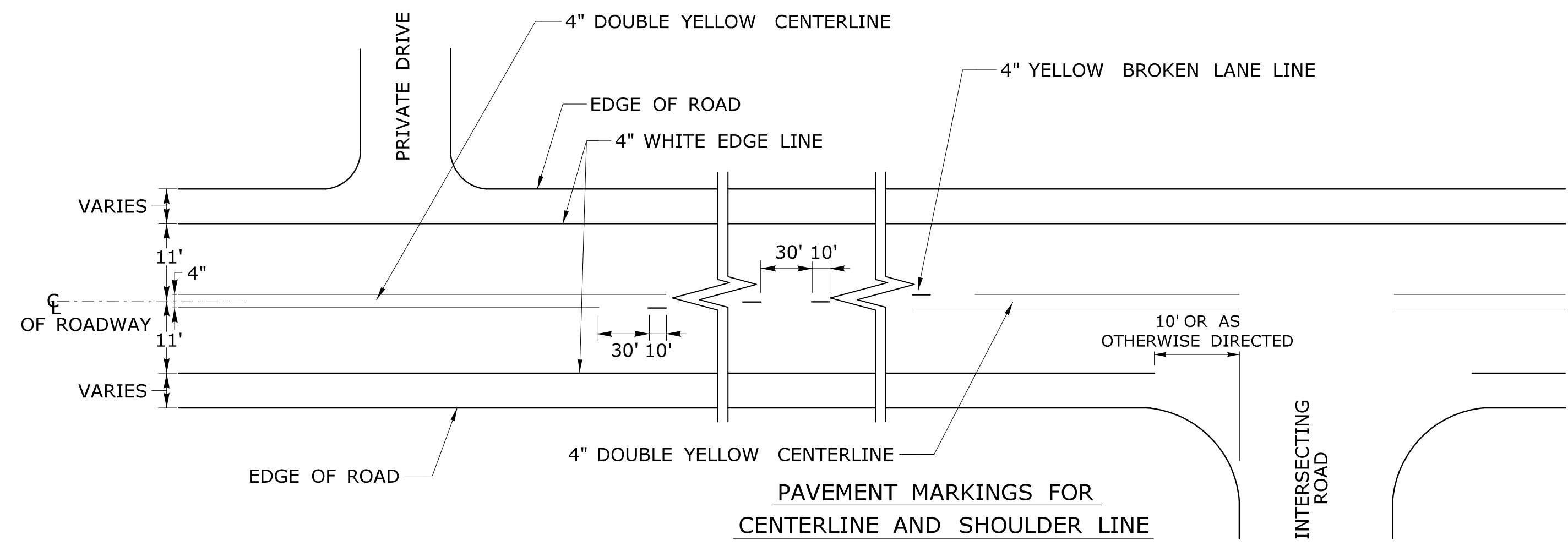
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

**PAVEMENT MARKING
LINES AND SYMBOLS**

STANDARD SHEET NO.:

TR-1210_04



- NOTES:**
STOP BARS AND YIELD LINES
- STOP BARS AND YIELD LINES SHALL BE WHITE.
 - STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
 - STOP BARS TO BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF CROSSWALK AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY. TO
 - IN THE ABSENCE OF A MARKED CROSSWALK THE STOP BAR SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY, AT THE DESIRED STOPPING POINT AT LEAST 5' AND NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
 - THE STOP SIGN SHOULD BE PLACED IN LINE WITH THE STOP BAR. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP BAR SHOULD BE PLACED AT THE STOPPING POINT.
 - FOR STOP BARS AT RAMPS SEE DETAILS "R", "S", "T", & "U" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210 07 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS EXIT RAMPS".
 - FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.
 - MID-BLOCK CROSSWALKS ARE CROSSWALKS LOCATED MORE THAN 50 FEET FROM A SIGNALIZED OR UNSIGNALIZED INTERSECTION. YIELD LINES ASSOCIATED WITH MIDBLOCK CROSSWALKS SHALL BE INSTALLED AND SHOULD BE LOCATED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE OR AS DIRECTED BY THE ENGINEER.
 - WHERE A YIELD LINE EXISTS ON AN APPROACH TO A CROSSWALK, THE APPROPRIATE "YIELD TO PEDESTRIANS" SIGN IS REQUIRED.
 - FOR CROSSWALKS AT UNSIGNALIZED INTERSECTIONS WITH MINOR STREET STOP CONTROL, YIELD LINES SHALL BE INSTALLED ON MULTI-LANE APPROACHES, BUT NOT SINGLE LANE APPROACHES.
 - THE YIELD SIGN SHOULD BE PLACED IN LINE WITH A YIELD LINE. HOWEVER, IF THE YIELD SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO YIELD, THE YIELD LINE SHOULD BE PLACED AT THE YIELDING POINT.
- CROSSWALKS**
- CROSSWALK MARKINGS SHALL BE WHITE.
 - AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO C, AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.
 - BARS SHOULD BE NO CLOSER THAN 1' FROM EDGE OF ROAD.
 - ONLY FULL LENGTH BARS ARE TO BE INSTALLED.
 - DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG EACH EDGE.
 - 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.
- PAVEMENT MARKINGS FOR TURNING LANES**
- INSTALL AT LEAST TWO ARROWS PER LANE WHERE STORAGE LENGTH IS GREATER THAN 150 FEET.