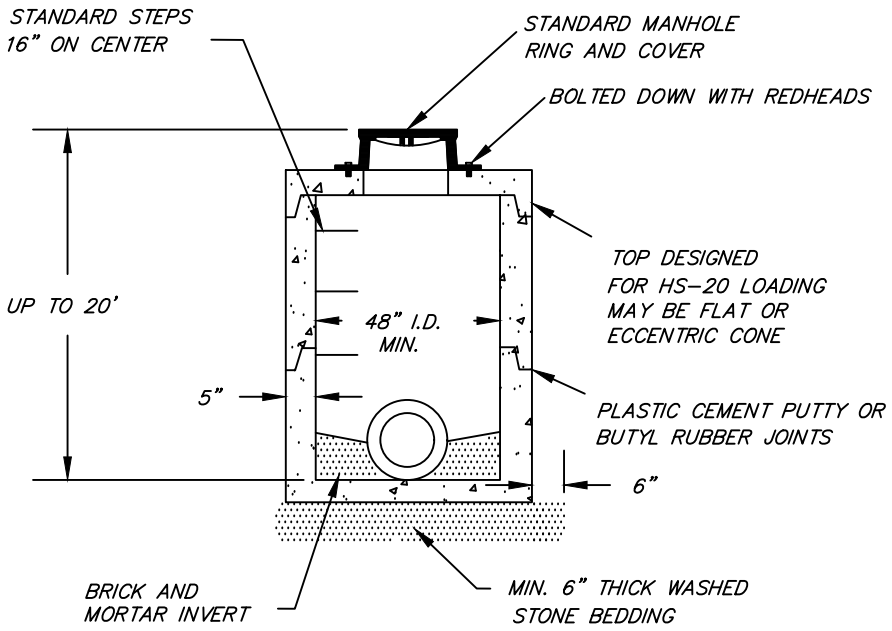
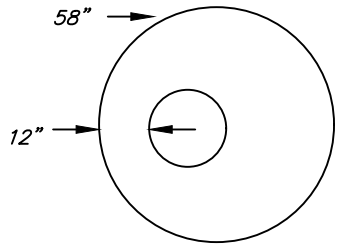
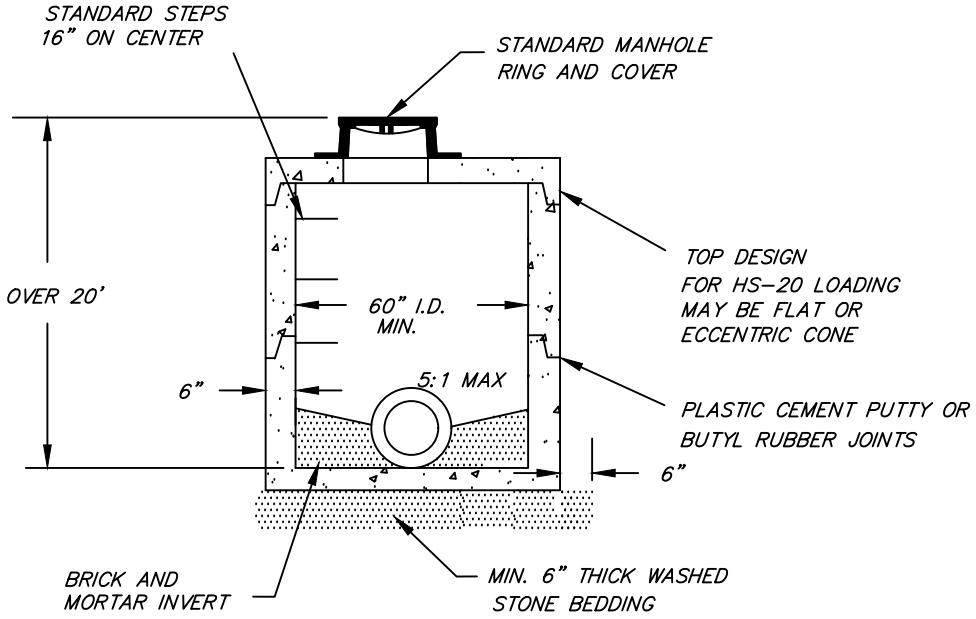
STANDARD TYPE
(UP TO 20 FEET IN DEPTH)



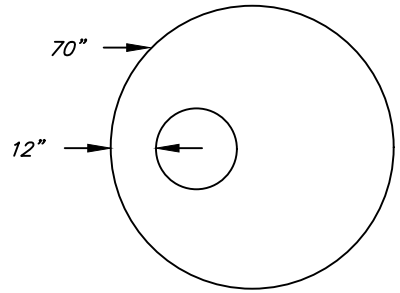
FLAT TOP DETAIL



DEEP TYPE
(OVER 20 FEET IN DEPTH)



FLAT TOP DETAIL



DRAWING NOT TO SCALE

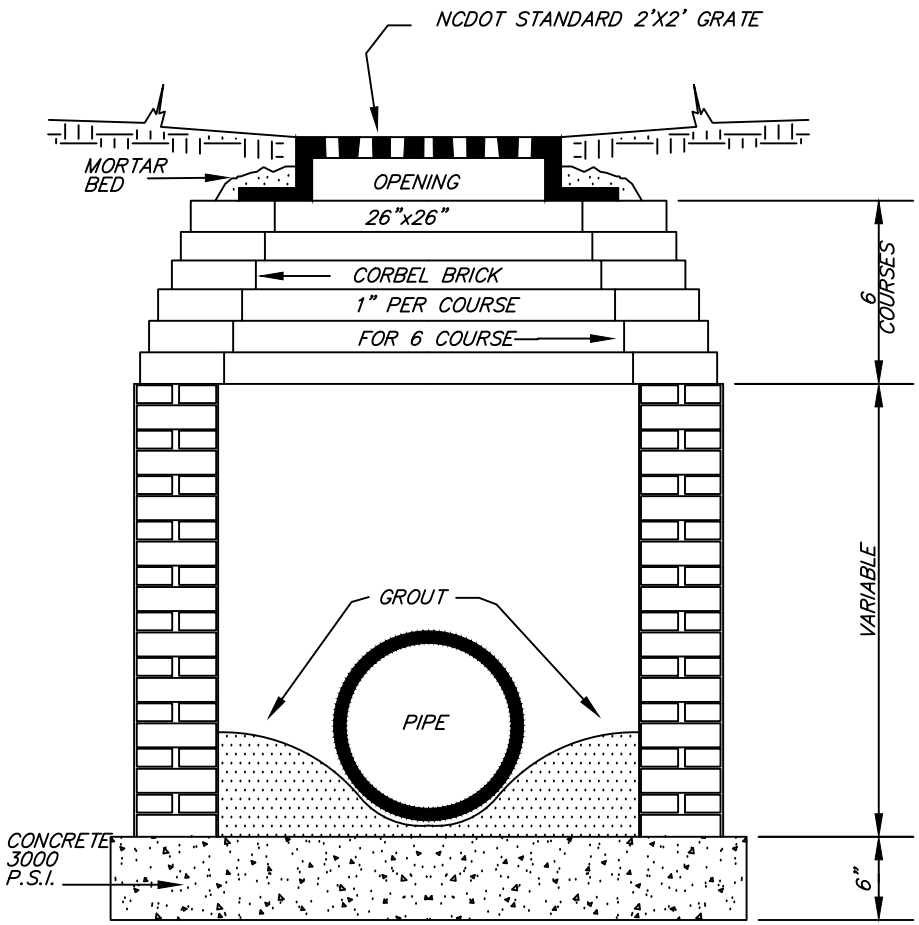
PRECAST CONCRETE MANHOLE STORM DRAINAGE JUNCTION BOX

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

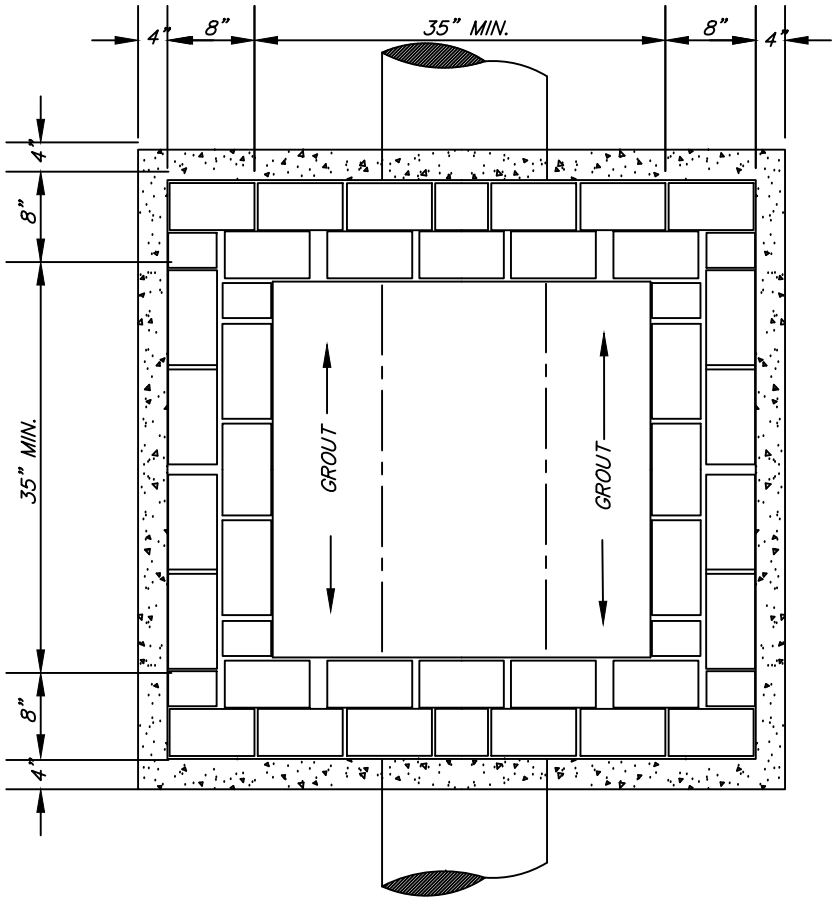
STANDARD DETAIL NUMBER: **HS801**

DATE	REVISIONS
7/24/09	

Holly Springs
Discover The Source.



SECTION



PLAN

NOTES:

1. EITHER SOLID BRICK, SOLID BLOCK OR PRECAST CONCRETE MAY BE USED.
2. FOR 24" R.C.P. AND LARGER USE PIPE DIA. PLUS 12" FOR MINIMUM INSIDE DIMENSION.
3. GRATED INLETS SHALL NOT BE USED WITHIN TRAVEL AREAS WITHOUT APPROVAL OF DIRECTOR OF ENGINEERING.
4. STANDARD STEPS REQUIRED @ 16" O.C. WHERE DEPTH EXCEEDS 3'.

DRAWING NOT TO SCALE

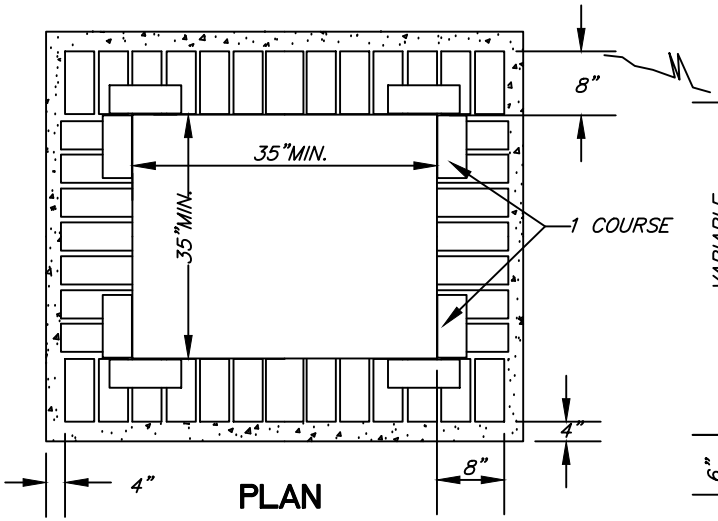
STANDARD YARD INLET WITH GRATE AND FRAME

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

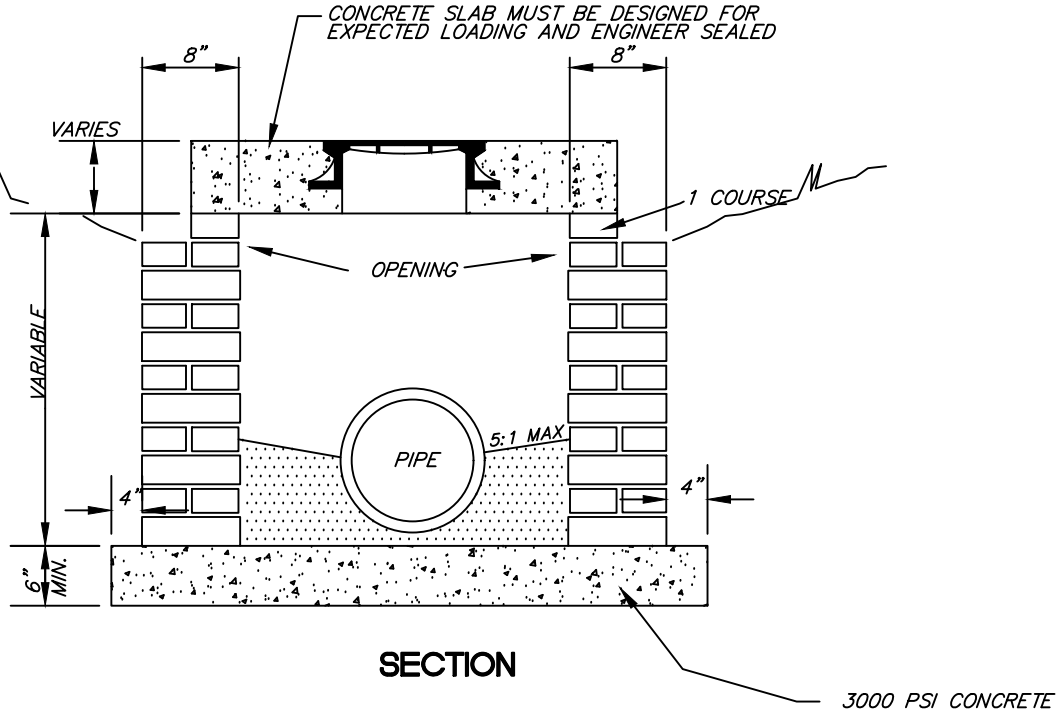
STANDARD DETAIL NUMBER: **HS802**

DATE	REVISIONS
7/24/09	

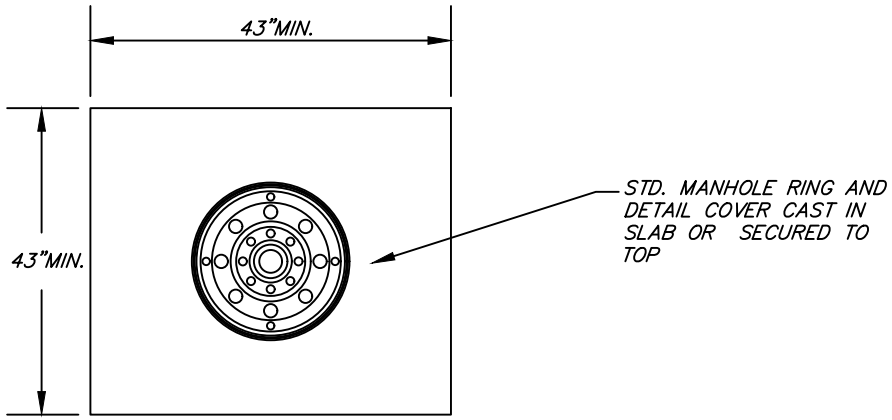
Holly Springs
Discover The Source.



PLAN



SECTION



CONCRETE SLAB

NOTES:

1. EITHER SOLID BRICK , SOLID BLOCK, OR PRECAST CONCRETE MAY BE USED.

2. STANDARD STEPS REQUIRED @ 16" O.C. WHERE DEPTH EXCEEDS 3'.

3. USE MIN. 3000 P.S.I. CONC. MIX.

4. INSIDE DIMENSION FOR 24" PIPE AND GREATER USE PIPE DIA. PLUS 12".

DRAWING NOT TO SCALE

STANDARD YARD INLET WITH CONCRETE SLAB

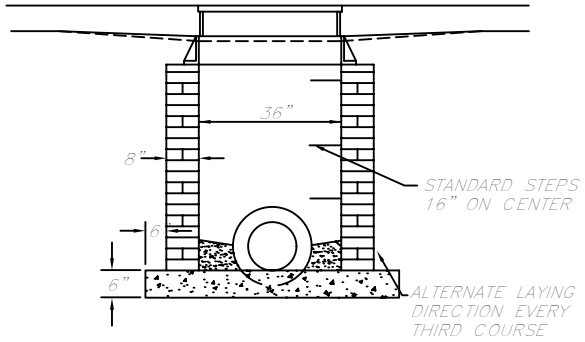
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

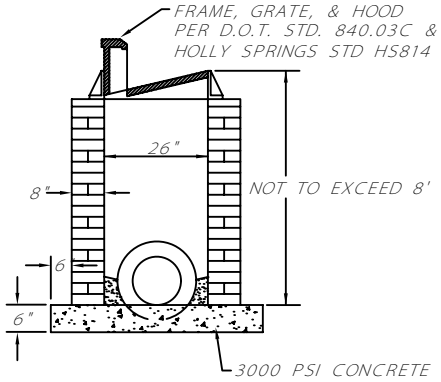
STANDARD DETAIL NUMBER: **HS803**

DATE	REVISIONS
7/24/09	

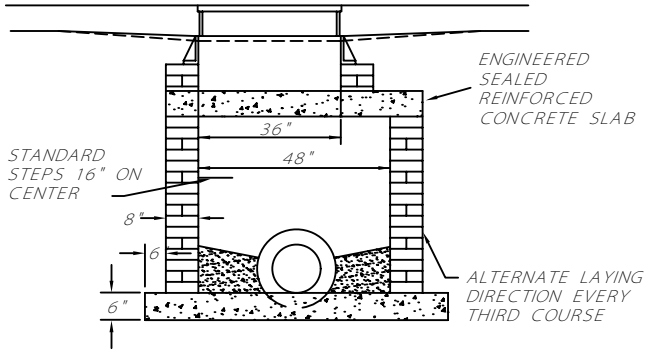
Holly Springs
Discover The Source.

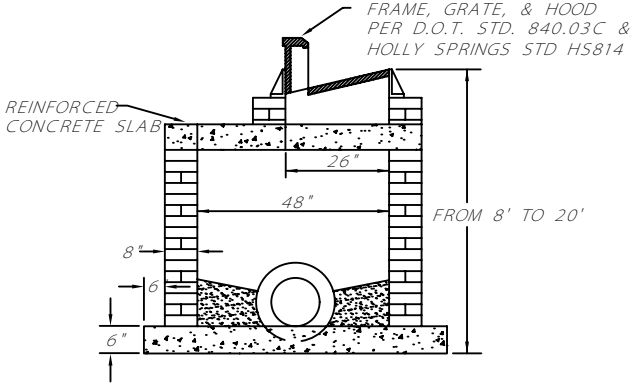
SHALLOW TYPE
(5 FEET OR LESS IN DEPTH)



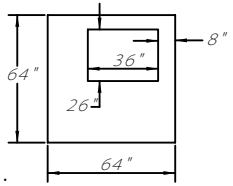


INTERMEDIATE TYPE (4'X4')
(5 FEET TO 20 FEET IN DEPTH)





SLAB DETAIL

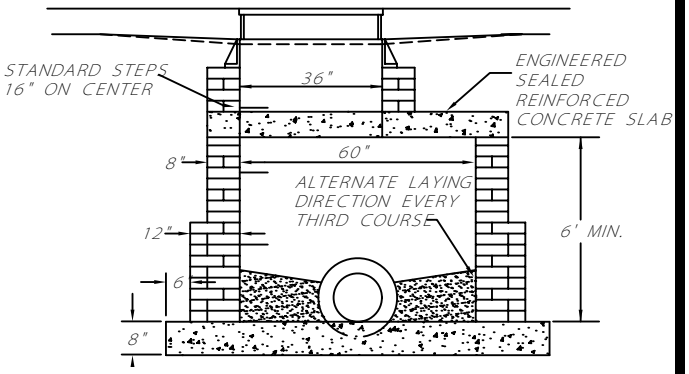


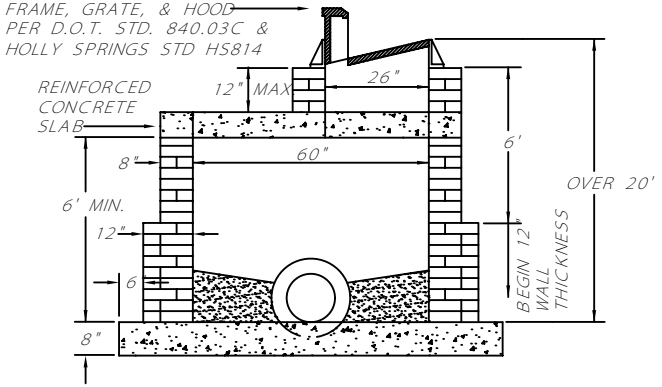
SLAB THICKNESS AND REINFORCEMENT FOR SOIL AND TRAFFIC LOADING BY AN ENGINEER

NOTES:

OVER 8' IN DEPTH, 12" WALL THICKNESS TO 6' FROM TOP OF WALL AND 8" BOTTOM SLAB SHALL BE USED.

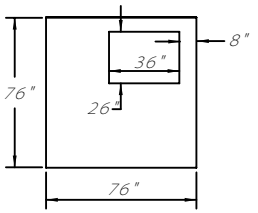
DEEP TYPE (5'X5')
(OVER 20 FEET IN DEPTH)





SLAB DETAIL

SLAB THICKNESS AND REINFORCEMENT FOR SOIL AND TRAFFIC LOADING BY AN ENGINEER



DRAWING NOT TO SCALE

CONCRETE BLOCK OR BRICK CATCH BASIN

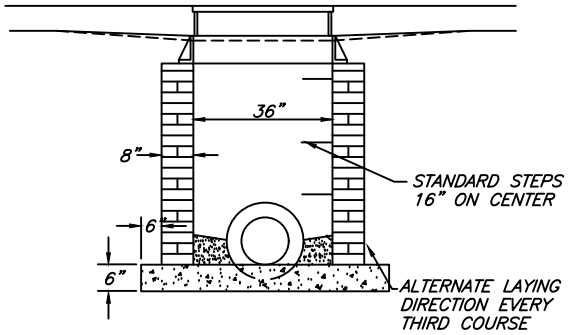
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

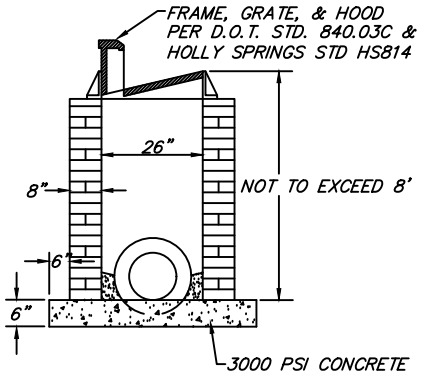
STANDARD DETAIL NUMBER HS804

DATE	REVISIONS
7/24/09	

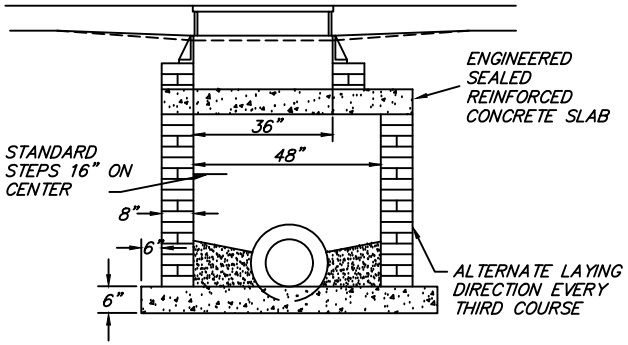
Holly Springs
Discover The Source.

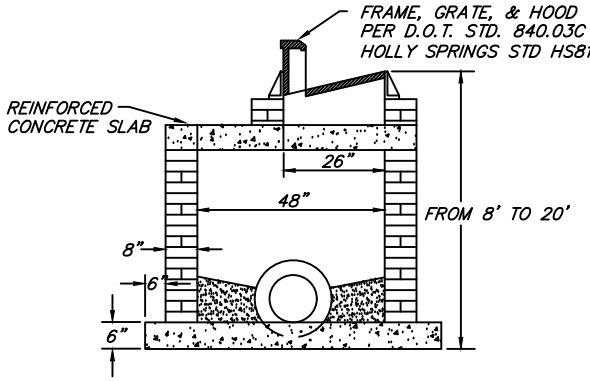
SHALLOW TYPE
(5 FEET OR LESS IN DEPTH)



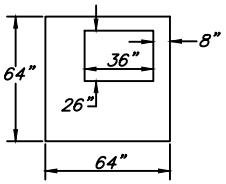


INTERMEDIATE TYPE (4'X4')
(5 FEET TO 20 FEET IN DEPTH)





SLAB DETAIL

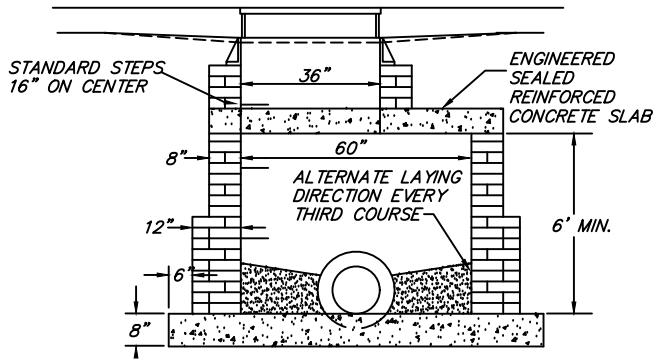


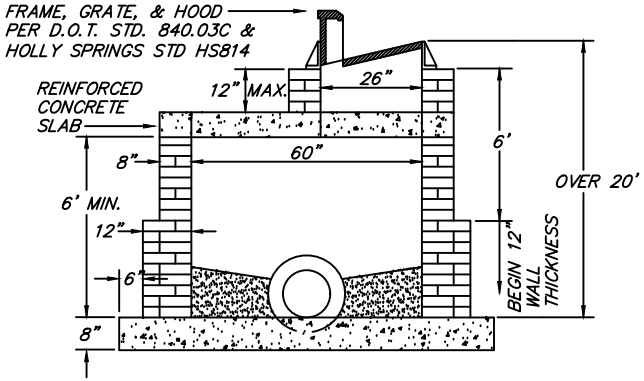
SLAB THICKNESS AND REINFORCEMENT FOR SOIL AND TRAFFIC LOADING BY AN ENGINEER

NOTES:

OVER 8' IN DEPTH, 12" WALL THICKNESS TO 6' FROM TOP OF WALL AND 8" BOTTOM SLAB SHALL BE USED.

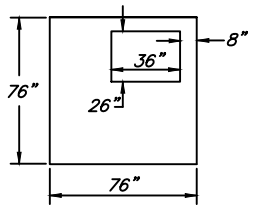
DEEP TYPE (5'X5')
(OVER 20 FEET IN DEPTH)





SLAB DETAIL

SLAB THICKNESS AND REINFORCEMENT FOR SOIL AND TRAFFIC LOADING BY AN ENGINEER



DRAWING NOT TO SCALE

CONCRETE BLOCK OR BRICK CATCH BASIN

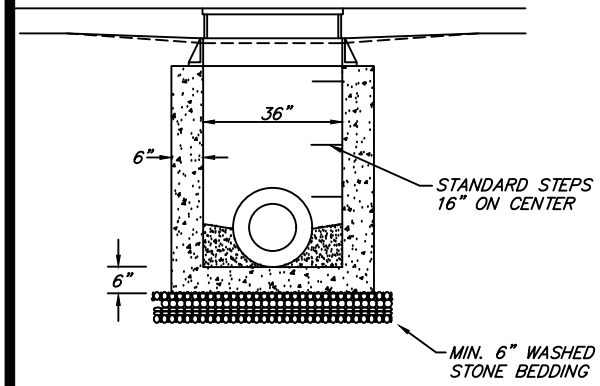
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

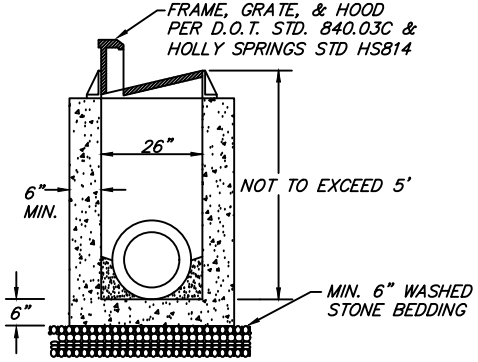
STANDARD DETAIL NUMBER: **HS804**

DATE	REVISIONS
7/24/09	

Holly Springs
Discover The Source.

SHALLOW TYPE
(5 FEET OR LESS IN DEPTH)

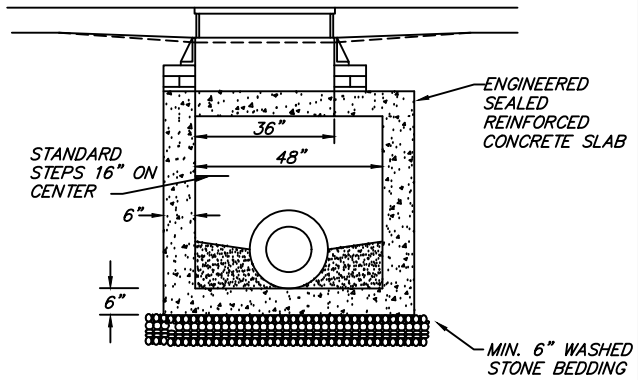


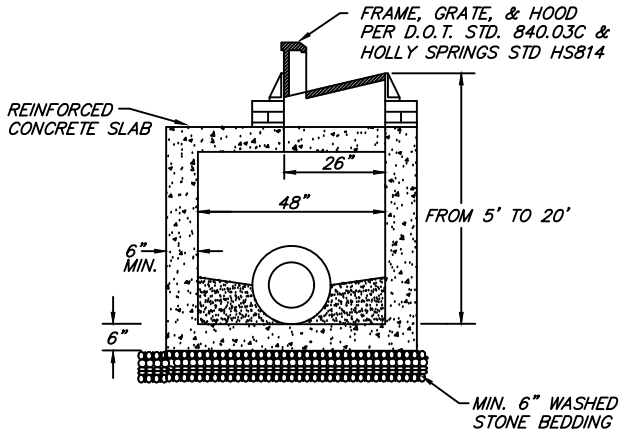


NOTES:

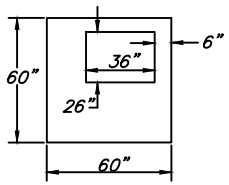
1. CONCRETE SHALL BE 4000 PSI MIN. FOR ALL PRECAST CONCRETE CATCH BASINS.
2. PRECAST CONCRETE STRUCTURES MAY ONLY BE INSTALLED TO DEPTHS CERTIFIED AS ACCEPTABLE BY THE MANUFACTURER.
3. NO WAFFLE BOXES ALLOWED.

INTERMEDIATE TYPE (4'X4')
(5 FEET TO 20 FEET IN DEPTH)



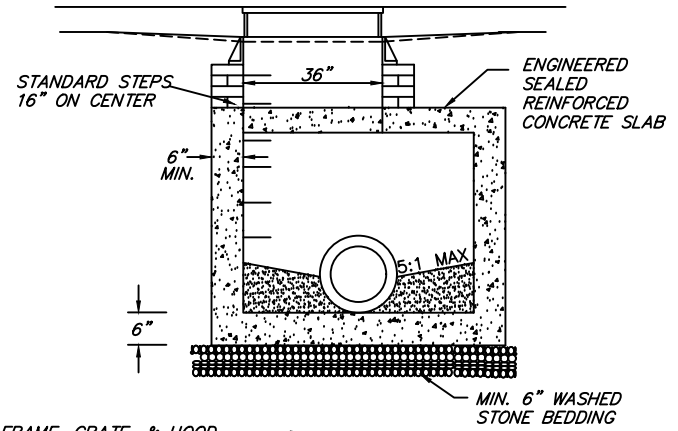


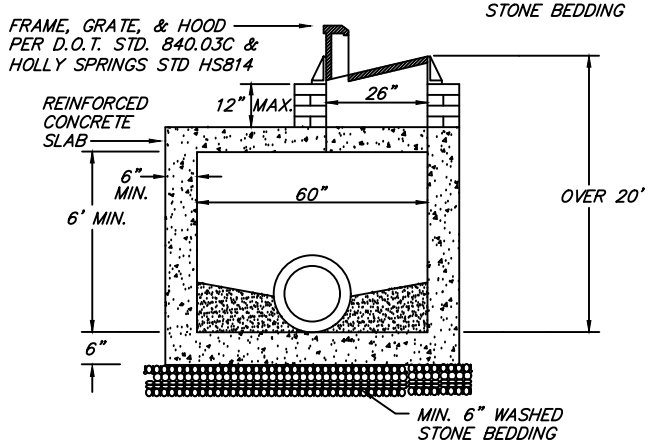
SLAB DETAIL



SLAB THICKNESS AND REINFORCEMENT FOR SOIL AND TRAFFIC LOADING BY AN ENGINEER

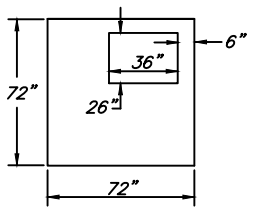
DEEP TYPE (5'X5')
(OVER 20 FEET IN DEPTH)





SLAB DETAIL

SLAB THICKNESS AND REINFORCEMENT FOR SOIL AND TRAFFIC LOADING BY AN ENGINEER



DRAWING NOT TO SCALE

PRECAST CONCRETE CATCH BASINS

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS805**

DATE	REVISIONS
7/24/09	

Holly Springs
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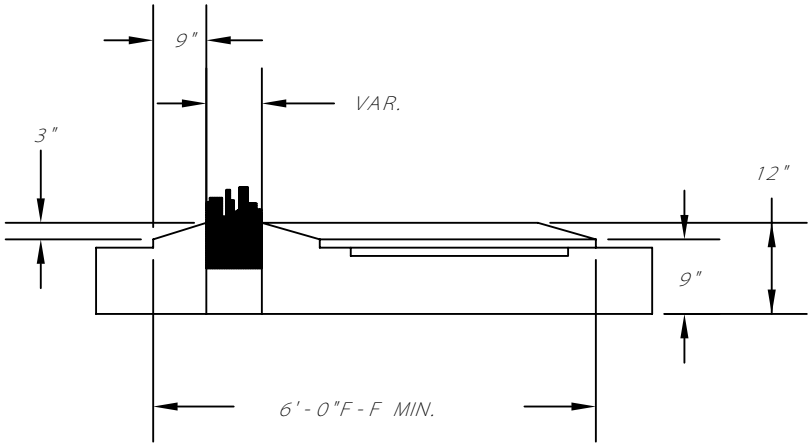
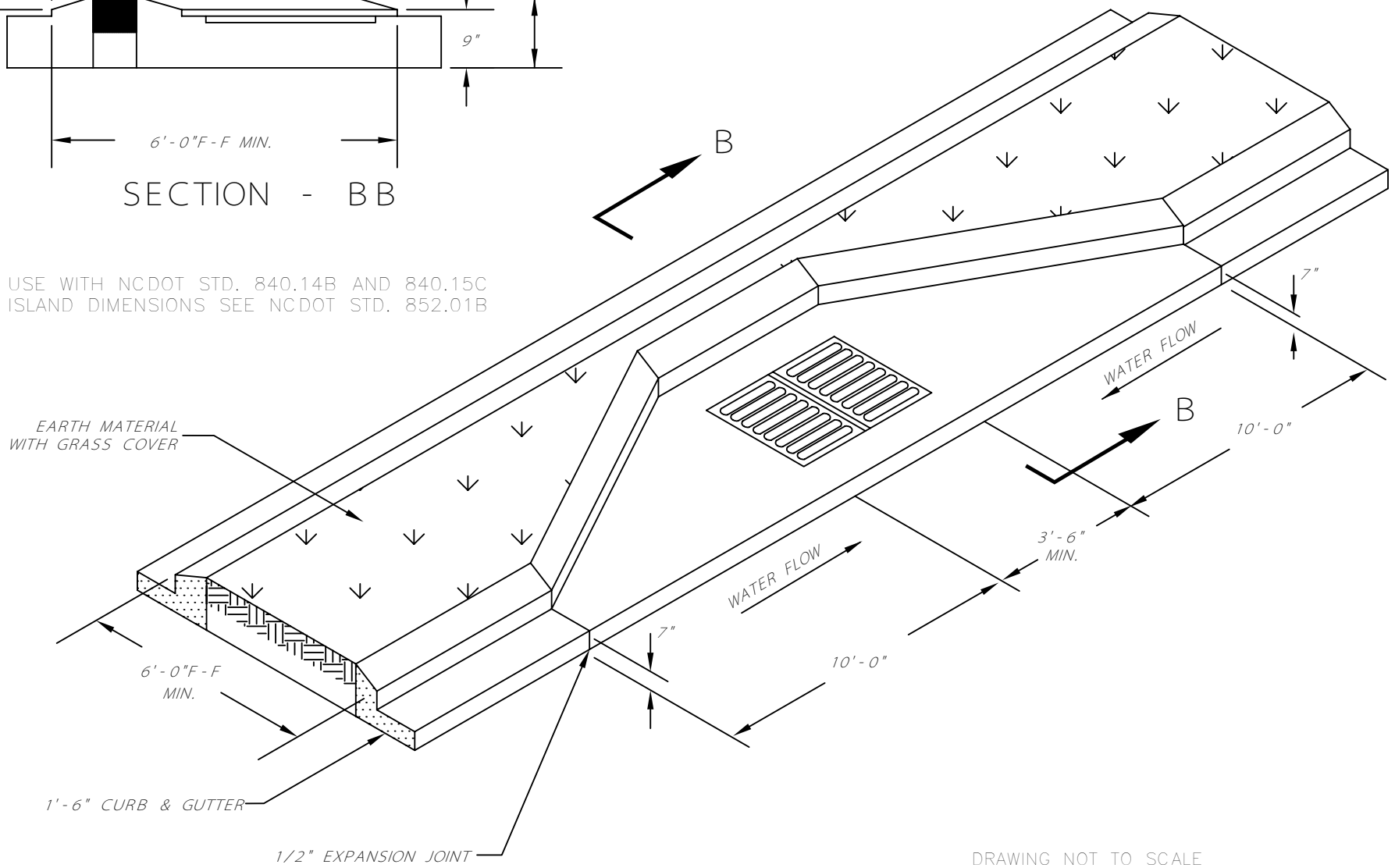


SECTION - BB

FOR USE WITH NCDOT STD. 840.14B AND 840.15C
FOR ISLAND DIMENSIONS SEE NCDOT STD. 852.01B



DRAWING NOT TO SCALE

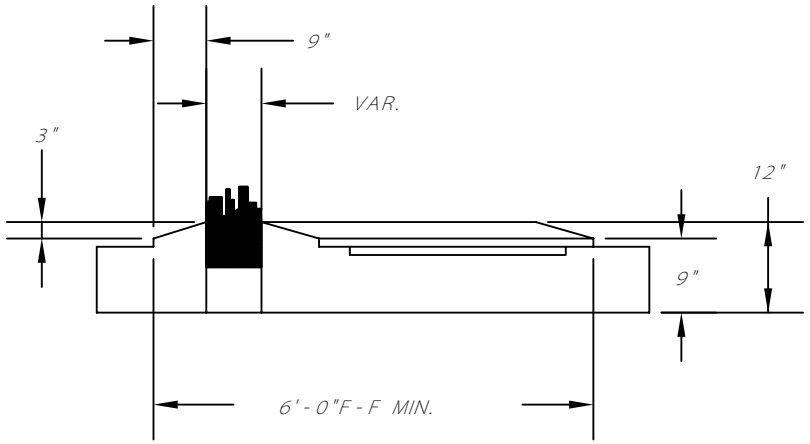
STANDARD MEDIAN CURB INLET
(FLOW FROM BOTH DIRECTIONS)

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER HS806

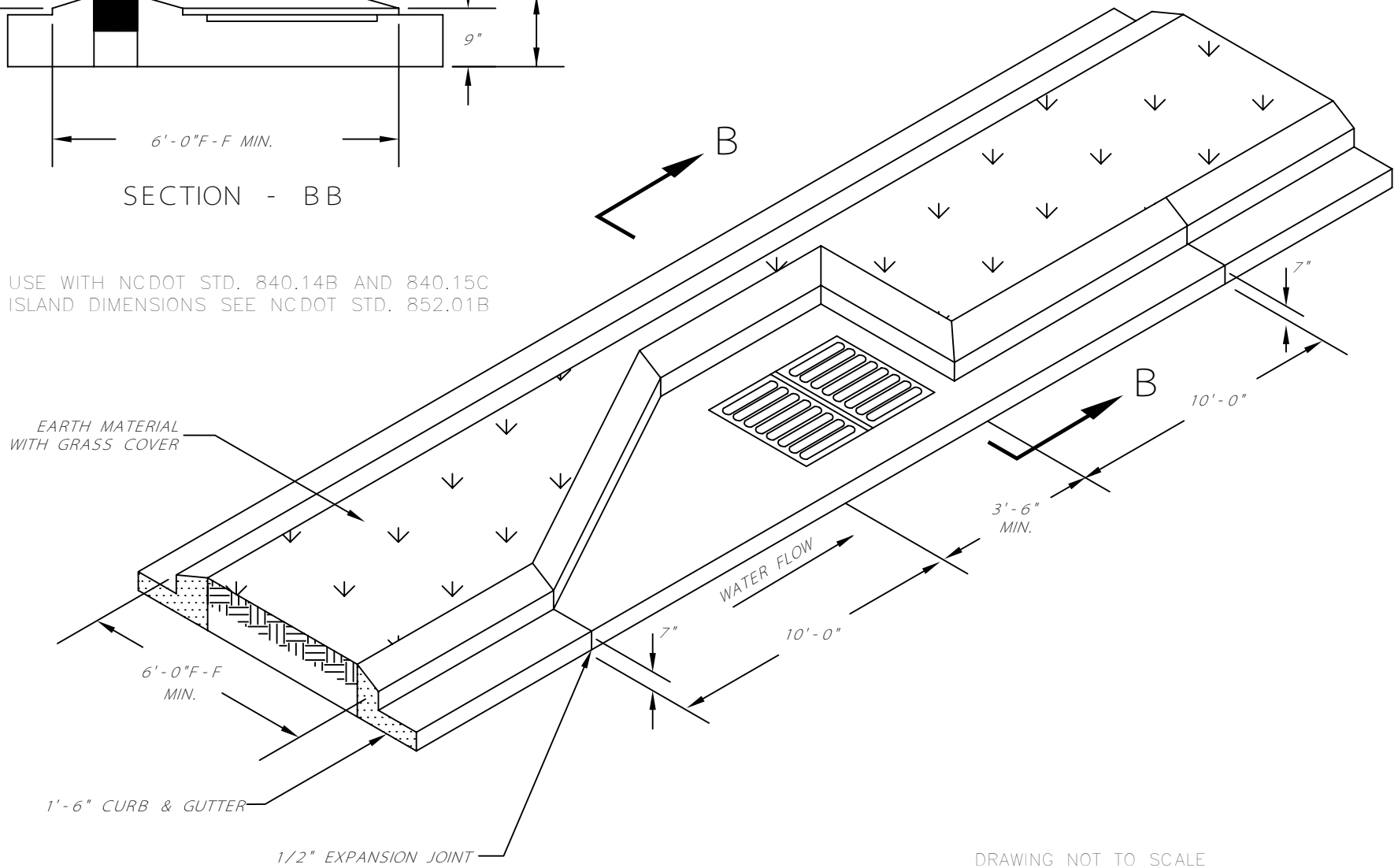
DATE	REVISIONS
7/24/09	

Holly Springs
Discover The Source.



SECTION - BB

FOR USE WITH NCDOT STD. 840.14B AND 840.15C
FOR ISLAND DIMENSIONS SEE NCDOT STD. 852.01B



DRAWING NOT TO SCALE

STANDARD MEDIAN CURB INLET

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS807	
DATE	REVISIONS
7/24/09	

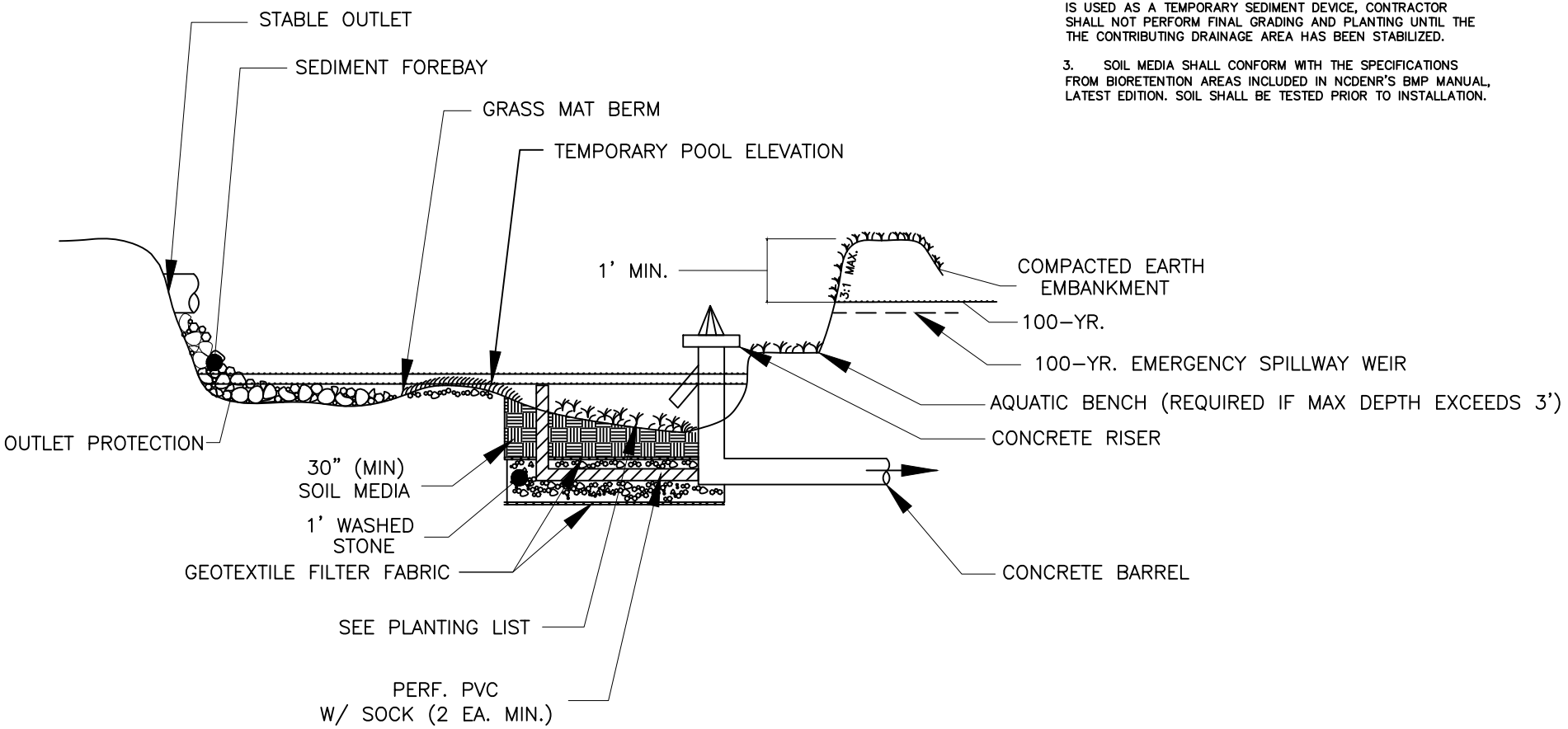
Holly Springs
Discover The Source.

GENERAL NOTES:

1. ALL ASPECTS OF DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 8.0 OF THE TOHS DESIGN AND CONSTRUCTION STANDARDS.

2. WHERE DRY EXTENDED DETENTION BASIN AREA EXCAVATION IS USED AS A TEMPORARY SEDIMENT DEVICE, CONTRACTOR SHALL NOT PERFORM FINAL GRADING AND PLANTING UNTIL THE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

3. SOIL MEDIA SHALL CONFORM WITH THE SPECIFICATIONS FROM BIORETENTION AREAS INCLUDED IN NCDENR'S BMP MANUAL, LATEST EDITION. SOIL SHALL BE TESTED PRIOR TO INSTALLATION.

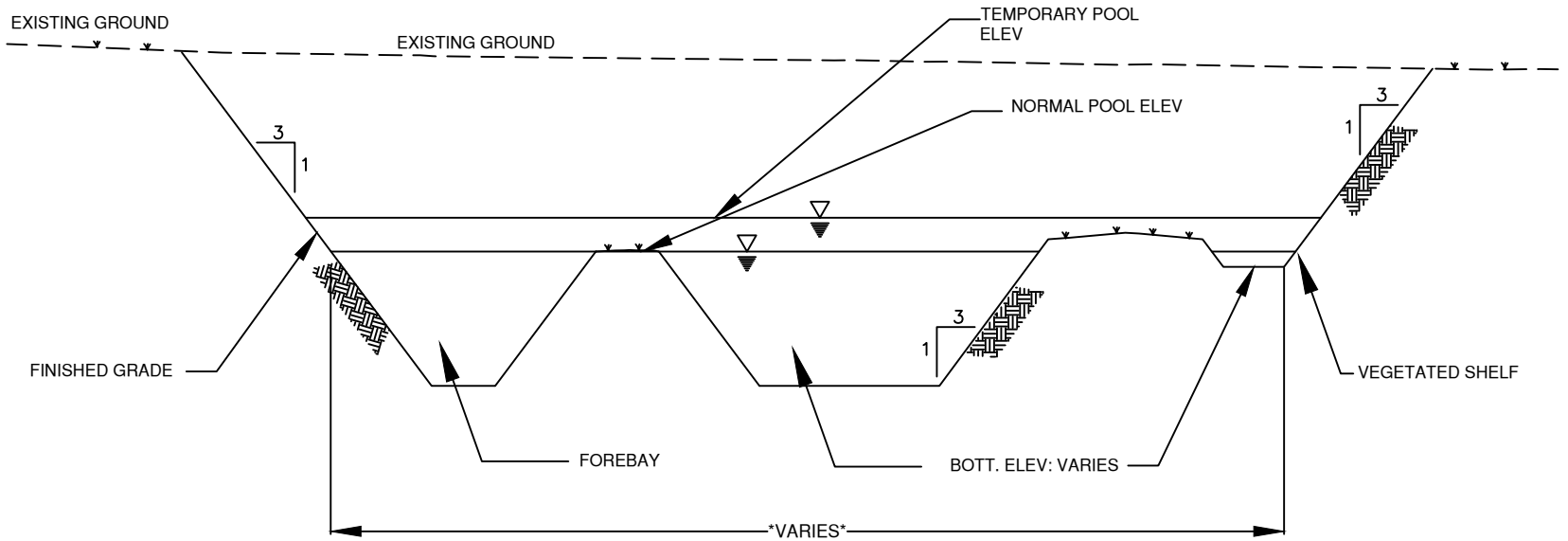


DRAWING NOT TO SCALE

FOR REFERENCE ONLY – DESIGN ENGINEER SHALL PROVIDE PROJECT SPECIFIC TYPICAL SECTIONS AND DETAILS ON PLANS

TYPICAL SECTION OF DRY EXTENDED DETENTION WITH INFILTRATION	*STANDARD DETAIL NUMBER: HS808*	
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT	*DATE*	*REVISIONS*
	3/15/10	

Holly Springs
Discover The Source.



GENERAL NOTES:

1. ALL ASPECTS OF DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 8.0 OF THE TOHS DESIGN AND CONSTRUCTION STANDARDS.
2. DESIGN ENGINEER SHALL PROVIDE DETAILED SECTION THROUGH THE OUTLET STRUCTURE(S).
3. WHERE WETLAND AREA EXCAVATION IS USED AS A TEMPORARY SEDIMENT DEVICE, CONTRACTOR SHALL NOT PERFORM FINAL GRADING AND INSTALL WETLAND PLANTING UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
4. PRETREATMENT AND RISER STRUCTURE SYSTEMS NOT SHOWN. DESIGN ENGINEER SHALL DETAIL THE SELECTED PRETREATMENT SYSTEM AND PROVIDE A DETAILED SECTION THROUGH THE OUTLET STRUCTURE AS APPROPRIATE.
5. A DETAILED WETLAND PLANTING PLAN IS REQUIRED AND IS NOT SHOWN.
6. APPROPRIATE DISTRIBUTION OF THE DEEP POOL, SHALLOW WATER, SHALLOW LAND, AND UPLAND DEPTH REGIONS IS CRITICAL TO PROPER DESIGN & PERFORMANCE. REFER TO NCDENR BMP MANUAL, LATEST EDITION FOR MORE DETAIL.
7. VEGETATIVE SHELF IS REQUIRED TO BE 50% SUBMERGED AT NORMAL POOL ELEVATION.
8. CLAY LINER IS REQUIRED IN DEEP POOLS.
9. MINIMUM OF 4" OF TOPSOIL IS REQUIRED IN ALL VEGETATED AREAS.

DRAWING NOT TO SCALE

FOR REFERENCE ONLY – DESIGN ENGINEER SHALL PROVIDE PROJECT SPECIFIC TYPICAL SECTIONS AND DETAILS ON PLANS

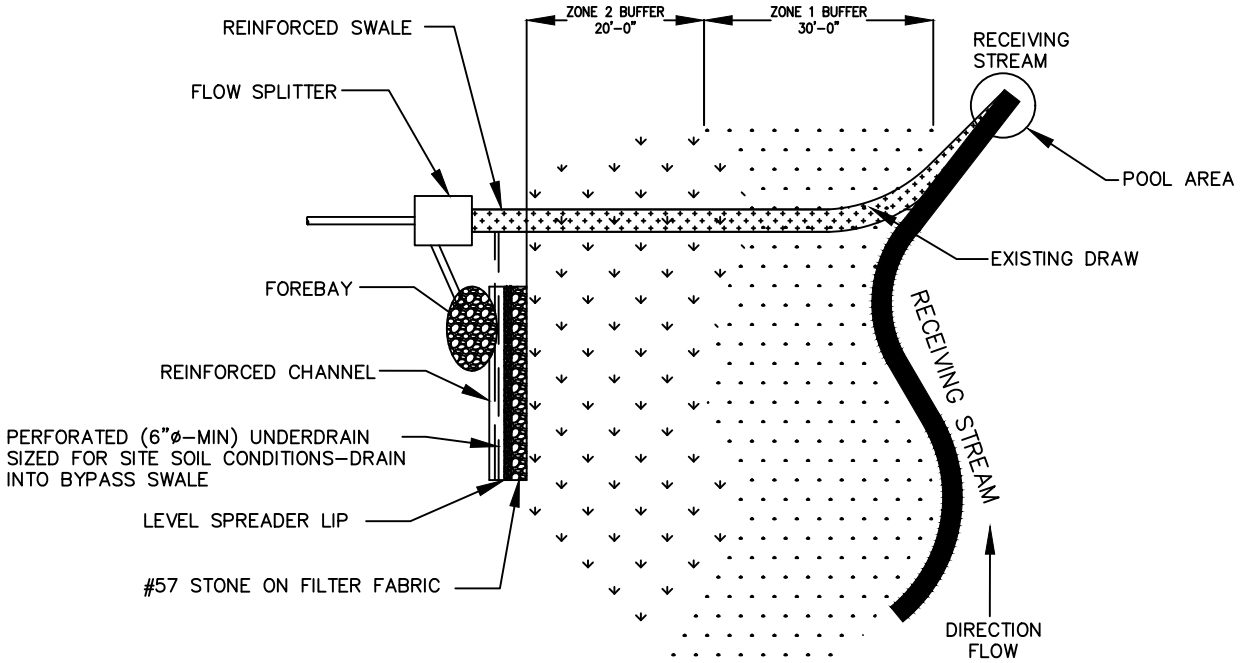
TYPICAL WETLAND SECTION

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

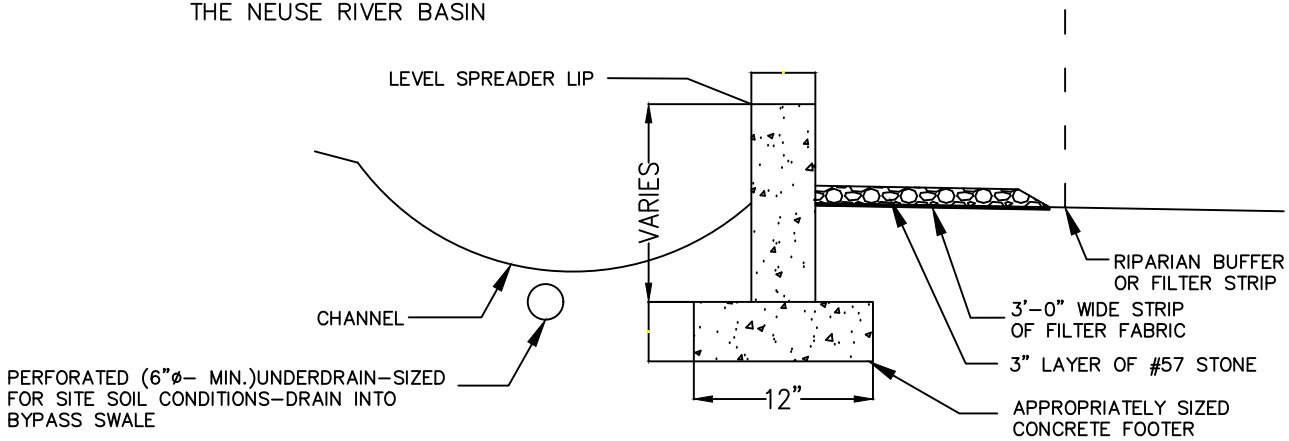
STANDARD DETAIL NUMBER: HS809

DATE	REVISIONS
3/13/19	

Holly Springs
Discover The Source.



* NOTE : BUFFER DISTURBANCES SHOWN REQUIRE A PERMIT FROM NCDENR WHEN IN THE NEUSE RIVER BASIN



SITING AND CONSTRUCTION SPECIFICATIONS

1. ALL ASPECTS OF DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 8.0 OF THE TOHS DESIGN AND CONSTRUCTION MANUAL.

2. DESIGN ENGINEER SHALL PROVIDE DETAILED SECTION THROUGH THE OUTLET STRUCTURE(S).

3. DIMENSIONS PROVIDED ARE RECOMMENDATIONS BASED ON FIELD RESEARCH. BEST PROFESSIONAL JUDGEMENT SHOULD BE USED WITH REGARD TO SWALE WIDTH DIMENSIONS, LEVEL SPREADER LIP DIMENSIONS, ETC.

4. LEVEL SPREADERS SHOULD BE LOCATED ONLY WHERE SAFE AND LEGAL INGRESS CAN BE OBTAINED FOR POST CONSTRUCTION INSPECTION AND MAINTENANCE.

5. GROUND CONTOURS SHOULD BE PARALLEL TO THE LEVEL SPREADER TIP.

6. THE RECEIVING AREA BELOW THE LEVEL SPREADER SHALL BE PROTECTED FROM HARM (E.G. SEDIMENT) DURING CONSTRUCTION.

7. MINOR DISTURBED AREAS SHALL BE STABILIZED WITH VEGETATIVE MEASURES. A TEMPORARY STORMWATER DIVERSION MAY BE NECESSARY UNTIL THE LEVEL SPREADER HAS FULLY STABILIZED.

8. LEVEL SPREADER SHOULD BLEND SMOOTHLY INTO THE DOWNSTREAM RECEIVING AREA WITHOUT ANY ABRUPT DROPS OR IRREGULARITIES TO AVOID CHANNELIZATION AND/OR TURBULANCE.

9. LEVEL SPREADERS SHOULD BE CONSTRUCTED ON UNDISTURBED SOIL WHERE POSSIBLE. NOTE: IF THE USE OF FILL IS UNAVOIDABLE, IT SHALL BE CONSTRUCTED ON MATERIAL COMPACTED TO 95% OF STANDARD PROCTOR TEST LEVELS PRIOR TO SEEDING FOR THAT AREA NOT CONSIDERED THE SEEDBED.

10. THE RECEIVING AREA (E.G. VEGETATED FILTER STRIP OR RIPARIAN BUFFER) SHOULD BE STABLE PRIOR TO THE CONSTRUCTION OF THE LEVEL SPREADER. THE RECEIVING AREA SHOULD HAVE SUITABLE TOPOGRAPHY TO PREVENT UNDUE FLOW CONCENTRATION BEFORE ENTERING A STABLE WATERCOURSE. IF THE RECEIVING AREA IS NOT PRESENTLY STABLE, THEN THE RECEIVING AREA/BUFFER MAY NEED TO BE STABILIZED PRIOR TO THE LEVEL SPREADER BEING BUILT; DWQ APPROVAL MAY BE REQUIRED FOR THIS ACTIVITY.

DRAWING NOT TO SCALE

FOR REFERENCE ONLY – DESIGN ENGINEER SHALL PROVIDE PROJECT SPECIFIC TYPICAL SECTIONS AND DETAILS ON PLANS

TYPICAL LEVEL SPREADER

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS810

DATE	REVISIONS
8/13/10	

Holly Springs
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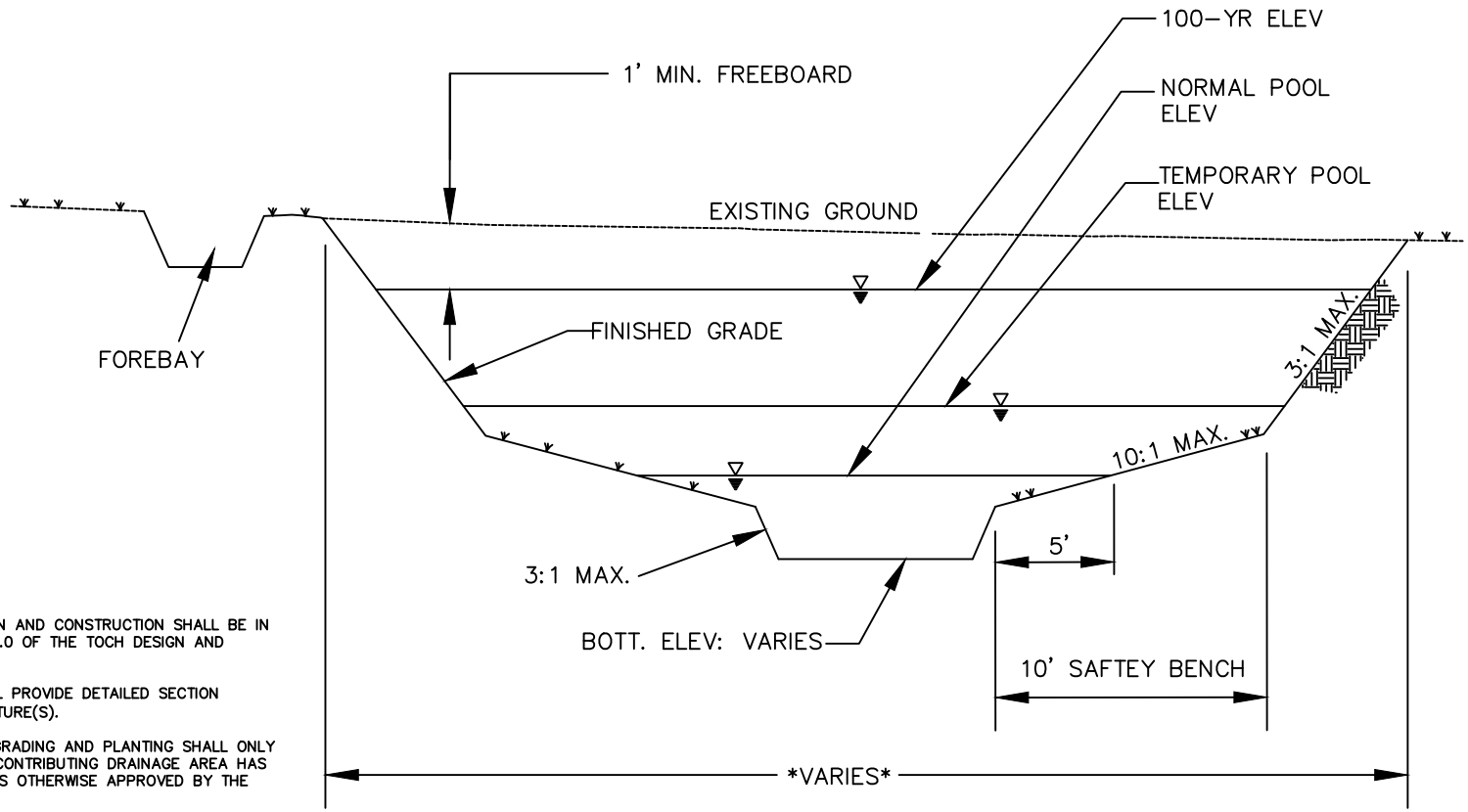

GENERAL NOTES:

1. ALL ASPECTS OF DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 8.0 OF THE TOCH DESIGN AND CONSTRUCTION STANDARDS.
2. DESIGN ENGINEER SHALL PROVIDE DETAILED SECTION THROUGH THE OUTLET STRUCTURE(S).
3. FINAL WET DETENTION GRADING AND PLANTING SHALL ONLY BE ESTABLISHED AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN FULLY STABILIZED OR AS OTHERWISE APPROVED BY THE TOWN ENGINEER.
4. 10' SAFTEY BENCH SHALL BE AT A 10:1 SLOPE BEGINING 0.5' ABOVE NORMAL POOL.
5. FOREBAY AND OUTLET STRUCTURE NOT SHOWN.
6. PLANTINGS, INCLUDING AQUATIC VEGITATION, SHALL BE IN ACCORDANCE WITH TOCH AND NCDENR REQUIREMENTS.

DRAWING NOT TO SCALE

FOR REFERENCE ONLY – DESIGN ENGINEER SHALL PROVIDE PROJECT SPECIFIC TYPICAL SECTIONS AND DETAILS ON PLANS

TYPICAL WET DETENTION BASIN SECTION

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS811

DATE	REVISIONS
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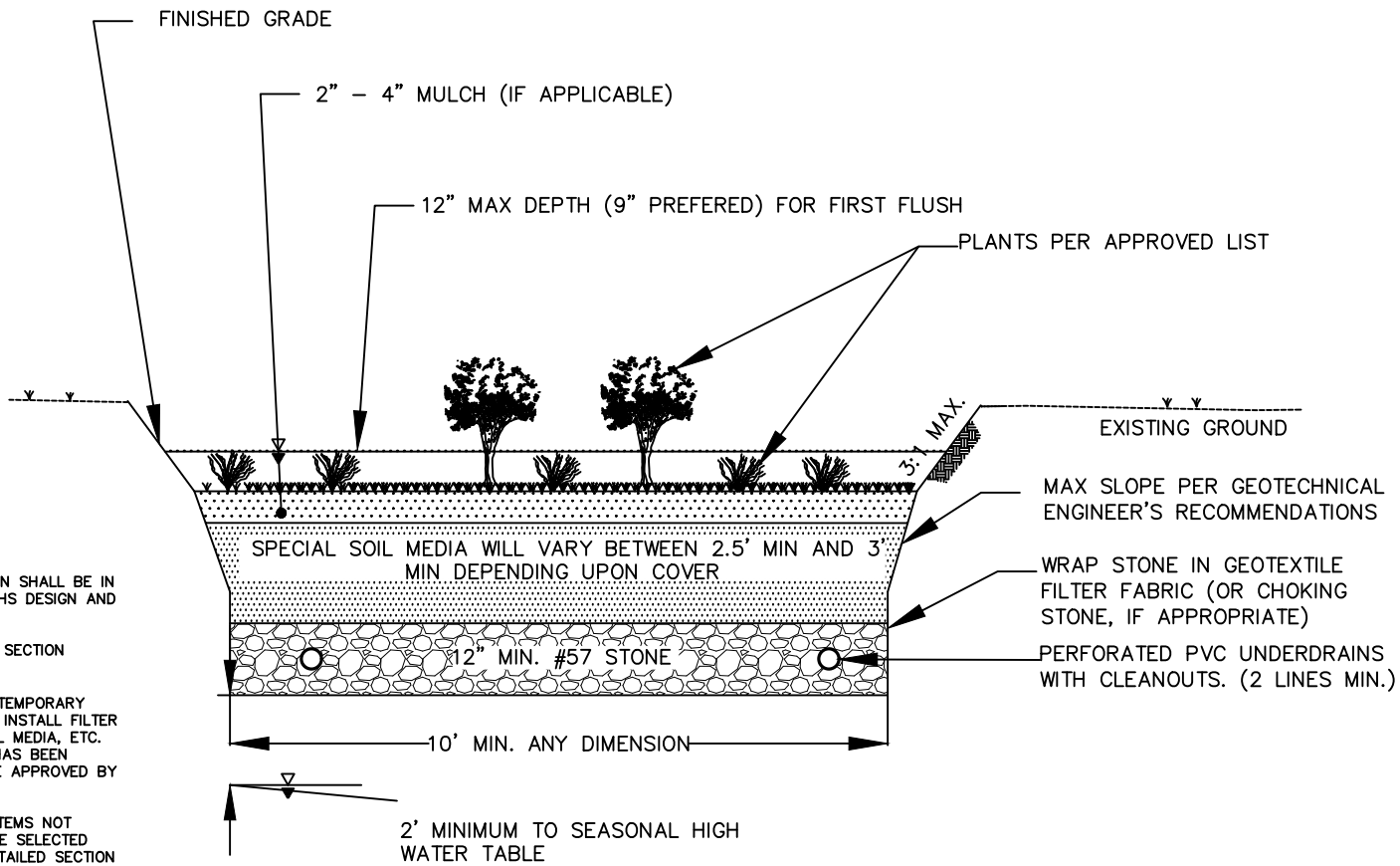

GENERAL NOTES:

1. ALL ASPECTS OF DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 8.0 OF THE TOHS DESIGN AND CONSTRUCTION STANDARDS.
2. DESIGN ENGINEER SHALL PROVIDE DETAILED SECTION THROUGH THE OUTLET STRUCTURE(S).
3. WHERE BIORETENTION AREA IS USED AS A TEMPORARY SEDIMENT DEVICE, CONTRACTOR SHALL NOT INSTALL FILTER FABRIC, UNDERDRAINS, STONE, SPECIAL SOIL MEDIA, ETC. UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. FINAL INSTALLATION SHOULD BE APPROVED BY THE TOWN.
4. PRETREATMENT AND RISER STRUCTURE SYSTEMS NOT SHOWN. DESIGN ENGINEER SHALL DETAIL THE SELECTED PRETREATMENT SYSTEM AND PROVIDE A DETAILED SECTION THROUGH THE OUTLET STRUCTURE AS APPROPRIATE.
5. ALTERNATE DESIGN CONCEPTS MAY BE APPROVED FOR SITES WITH STEEP SLOPE CONDITIONS. SEE SECTION 8.00 OF THE TOHS ENGINEERING AND CONSTRUCTION STANDARDS.
6. SPECIAL SOIL MEDIA SHALL CONFORM WITH THE SPECIFICATIONS INCLUDED IN NCDENR'S BMP MANUAL, LATEST EDITION. SOIL SHALL BE TESTED PRIOR TO INSTALLATION.

DRAWING NOT TO SCALE

FOR REFERENCE ONLY – DESIGN ENGINEER SHALL PROVIDE PROJECT SPECIFIC TYPICAL SECTIONS AND DETAILS ON PLANS

TYPICAL BIORETENTION SECTION

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS812

DATE	REVISIONS
7/24/09	

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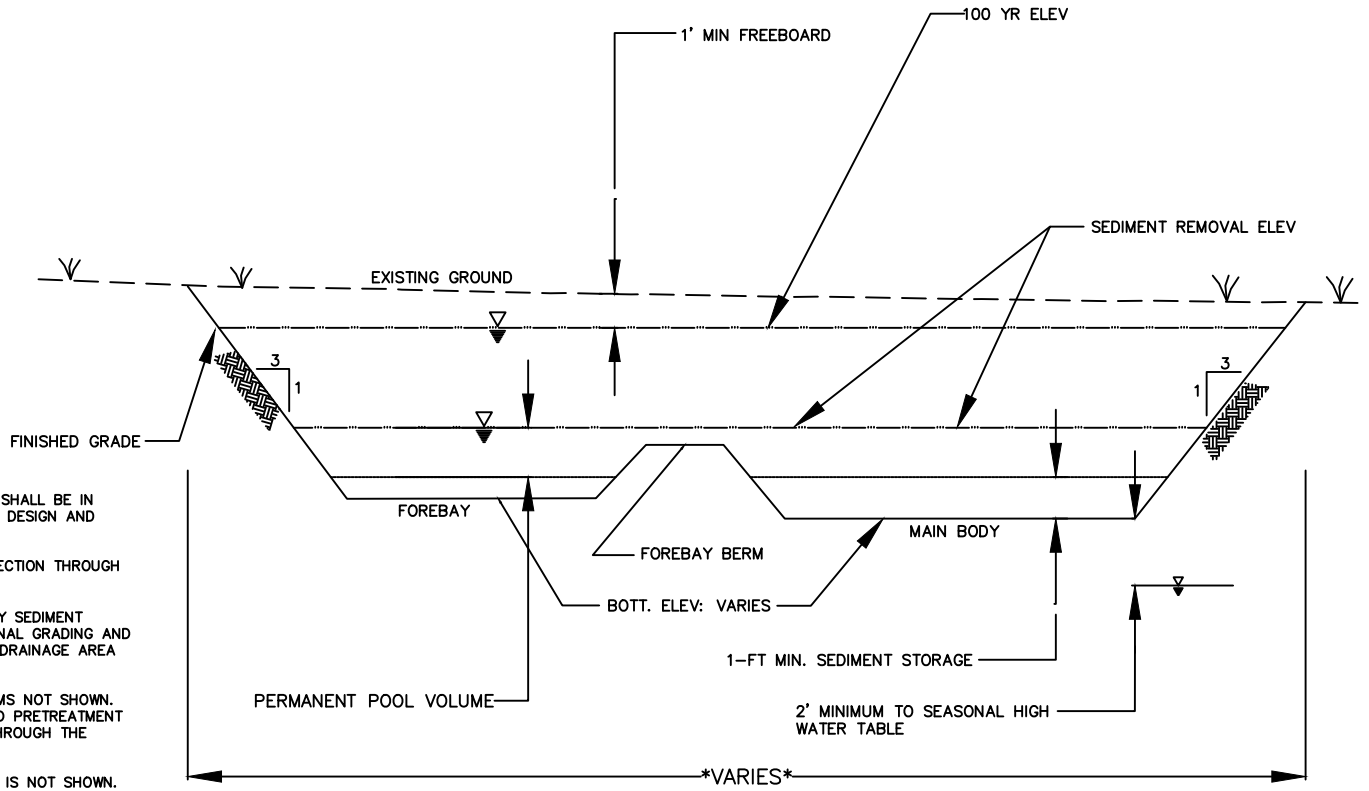

GENERAL NOTES:

1. ALL ASPECTS OF DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 8.0 OF THE TOHS DESIGN AND CONSTRUCTION STANDARDS.
2. DESIGN ENGINEER SHALL PROVIDE DETAILED SECTION THROUGH THE OUTLET STRUCTURE(S).
3. WHERE EXCAVATION IS USED AS A TEMPORARY SEDIMENT DEVICE, CONTRACTOR SHALL NOT PERFORM FINAL GRADING AND INSTALL PLANTINGS UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
4. PRETREATMENT AND RISER STRUCTURE SYSTEMS NOT SHOWN. DESIGN ENGINEER SHALL DETAIL THE SELECTED PRETREATMENT SYSTEM AND PROVIDE A DETAILED SECTION THROUGH THE OUTLET STRUCTURE AS APPROPRIATE.
5. A DETAILED PLANTING PLAN IS REQUIRED BUT IS NOT SHOWN.
6. MAXIMUM DEPTH SHALL BE 10'.
7. MIN. LENGTH TO WIDTH RATIO SHALL BE 1.5:1
8. SEDIMENT DEPTH INDICATOR MUST BE PROVIDED IN BOTH THE FOREBAY AND MAINBODY.
9. FOREBAY REQUIRED WHEN FIRST FLUSH VOLUME EXCEEDS 10 ACRE INCHES.
10. THIS BMP TYPICALLY INCLUDES A SMALL MICROPOOL NEAR THE OUTLET STRUCTURE.

DRAWING NOT TO SCALE

FOR REFERENCE ONLY – DESIGN ENGINEER SHALL PROVIDE PROJECT SPECIFIC TYPICAL SECTIONS AND DETAILS ON PLANS

TYPICAL DRY DETENTION BASIN SECTION

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS813

DATE	REVISIONS
7/24/09	

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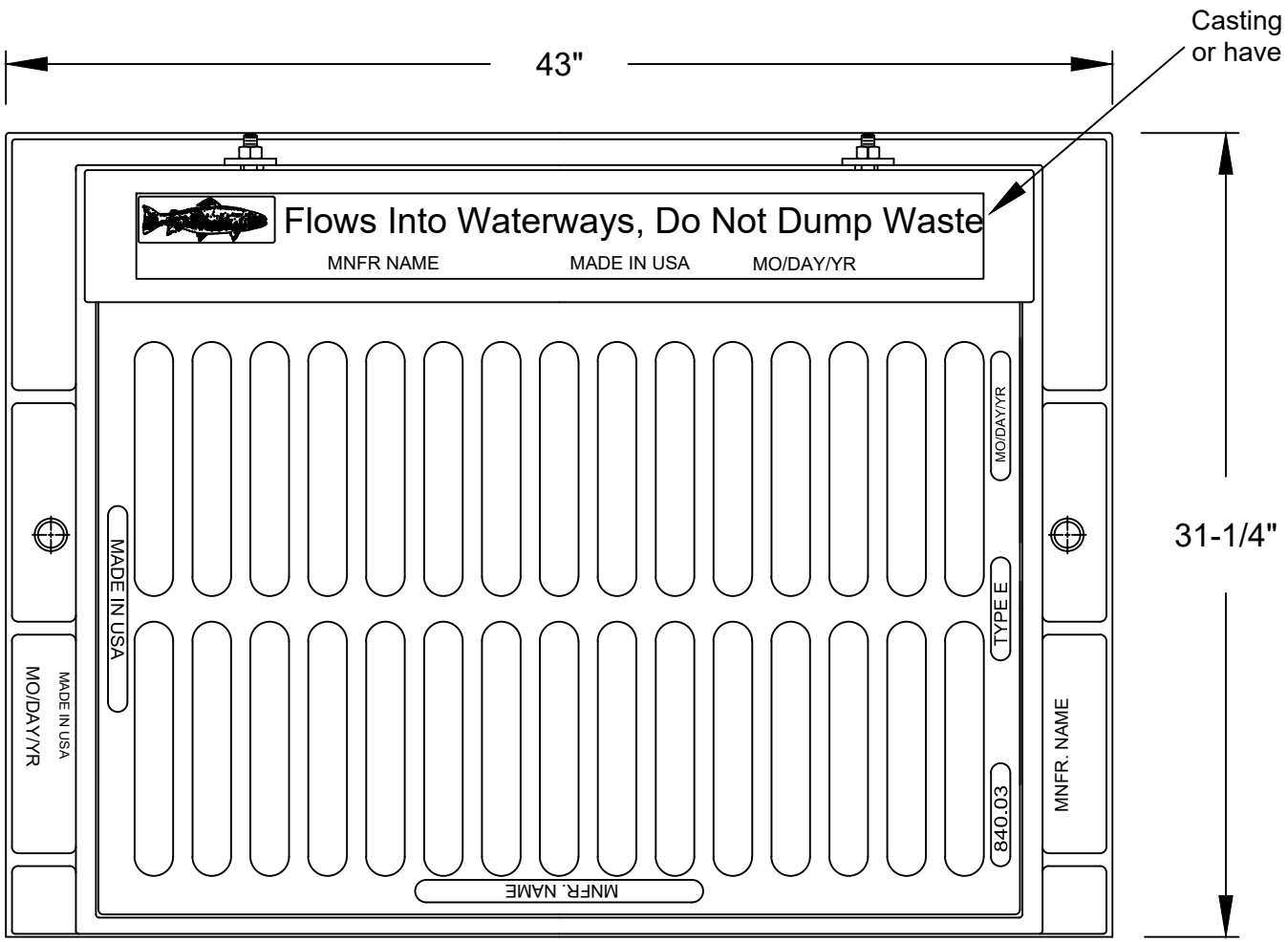

MUST MEET NCDOT STANDARDS
ROADWAY STANDARD DRAWING 840.03

DRAWING NOT TO SCALE

STANDARD FRAME LABEL FOR CATCH BASIN

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS814

DATE	REVISIONS
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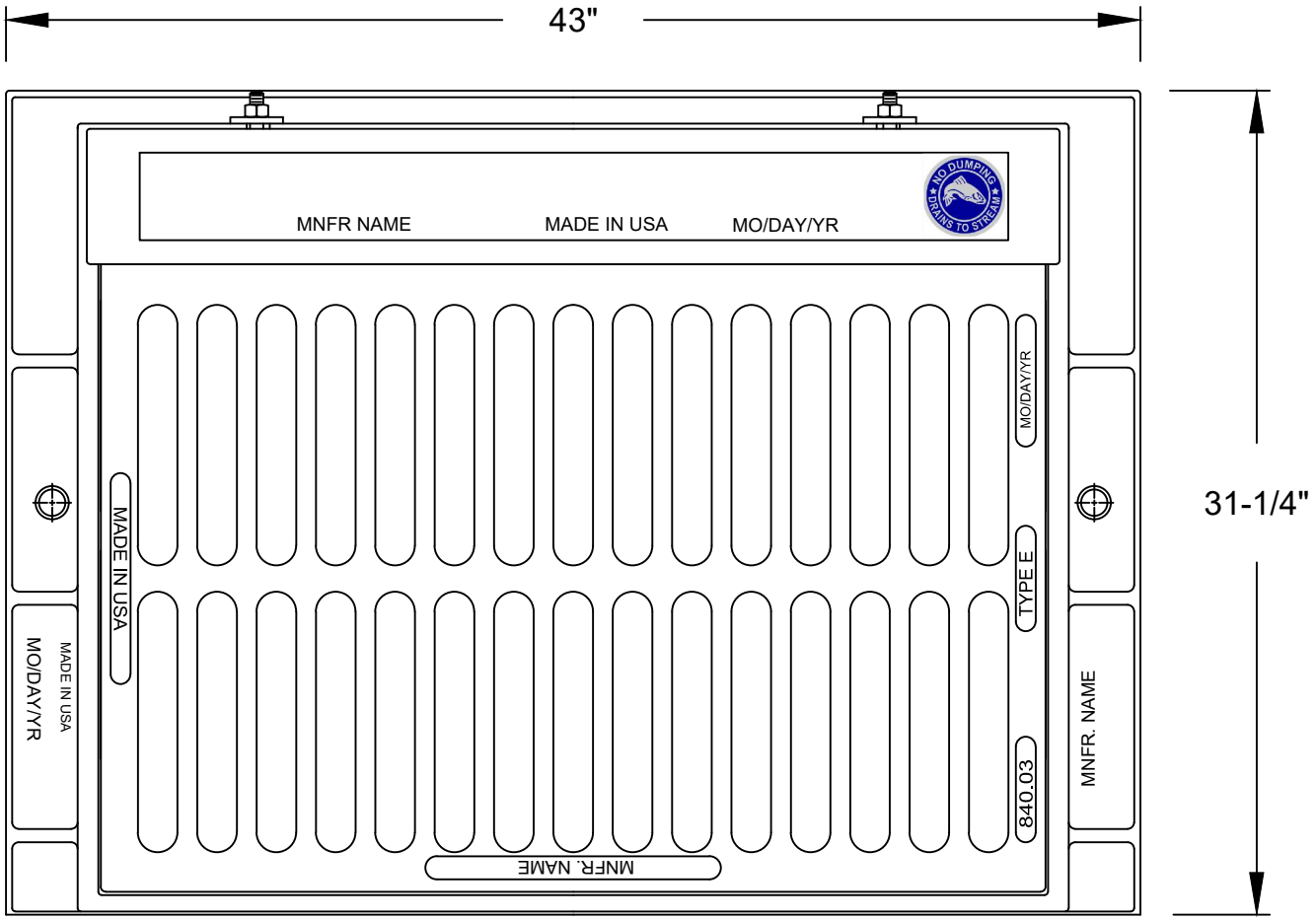

MUST MEET NCDOT STANDARDS
ROADWAY STANDARD DRAWING 840.03

DRAWING NOT TO SCALE

STANDARD PLACEMENT OF STORM DRAIN MARKER	STANDARD DETAIL NUMBER: HS815	
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT	DATE	REVISIONS
	7/24/09	

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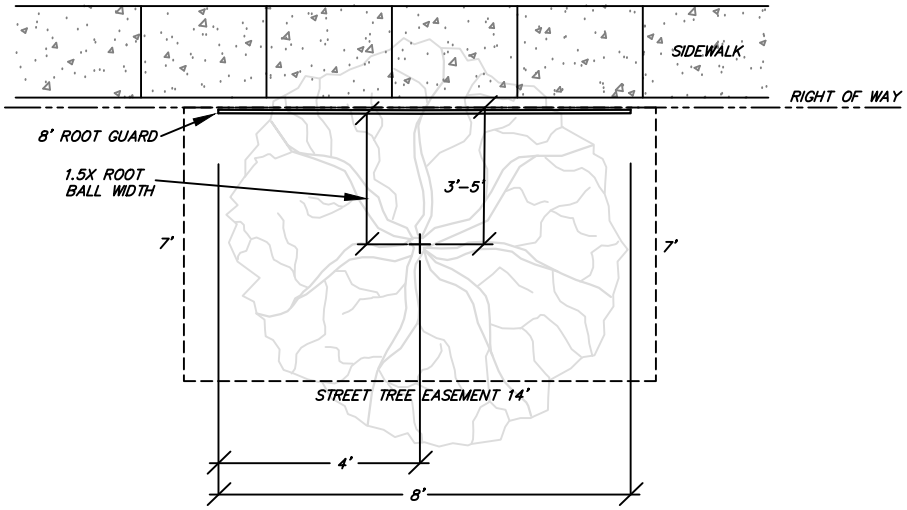
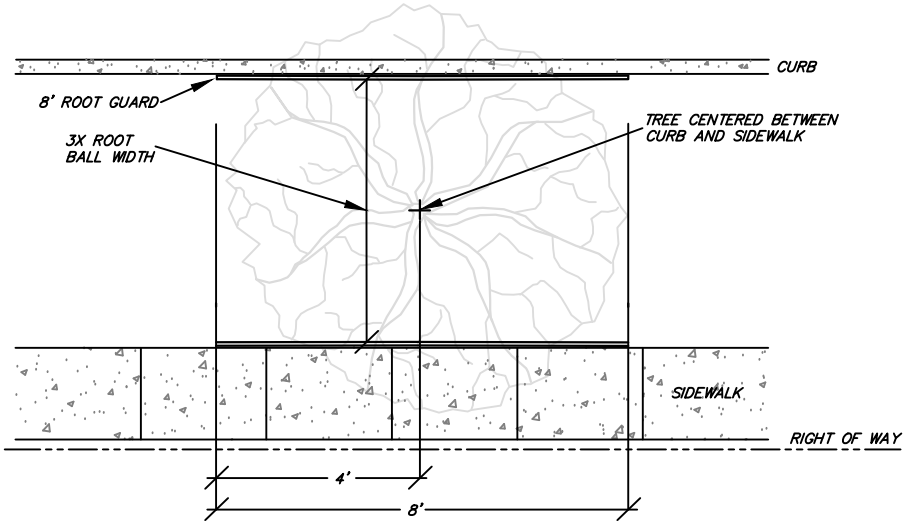
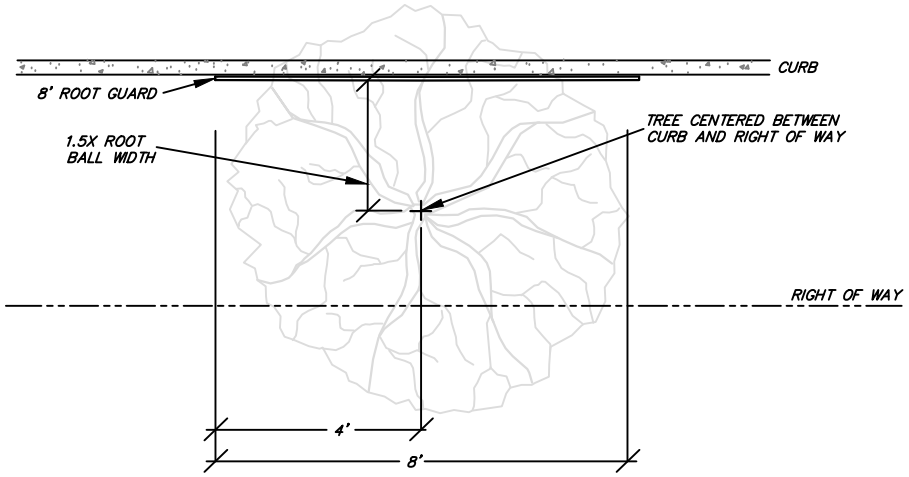
DETAIL A: STREET TREE ON PRIVATE PROPERTY



DETAIL B: STREET TREE IN PUBLIC RIGHT OF WAY WITH SIDEWALK



DETAIL C: STREET TREE IN PUBLIC RIGHT OF WAY WITHOUT SIDEWALK



NOTE: PLACE ROOT GUARD AT EDGE OF CURB OR SIDEWALK.

DRAWING NOT TO SCALE

STANDARD ROOT GUARD INSTALLATION

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS816**

DATE	REVISIONS
7/27/18	

HOLLY SPRINGS
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UB 24–2 Specifications
24" DeepRoot Tree Root Barriers

Specified tree root barriers are a mechanical barrier and root deflector to prevent tree roots from damaging hard–scapes and landscapes. Assembled in 2' long modules to create varying sizes of cylinders for surrounding root balls (Surround planting style) or for linear applications directly beside a hardscape adjacent to one side of the trees (Linear planting style).

A. Materials

1. The contractor shall furnish and install tree root barriers as specified. The tree root barriers shall be product # UB 24–2 as manufactured by Deep Root Partners, L.P. 81 Langton St. #4 San Francisco, LA (800–458–7668), or approved equal. The barrier shall be Black, Injection Molded Panels, of 0.085" (2.16mm) wall thickness in modules 24" (61cm) long by 24" (61 cm) deep; manufactured with a minimum 50% post consumer recycled polypropylene plastic with added ultraviolet inhibitors; recyclable. Each panel shall have:

Not less than 4 Molded Integral Vertical Root Deflecting Ribs of at least 0.085" (2.16mm) thickness protruding 1/2" (12.7mm) at 90° from interior of the barrier panel, spaced 6" (15.24cm) apart. (See panel drawing below)

A Double Top Edge consisting of two parallel, integral, horizontal ribs at the top of the panel of a minimum 0.085" (2.16mm) thickness, 3/8" (9.53mm) wide and 1/4" (6.35mm) apart with the lower rib attached to the vertical root deflecting ribs.(See detail "A")

A minimum of 9 Anti–Lift Ground Lock Tabs consisting of integral horizontal ridges of a minimum 0.085" (2.16mm) thickness in the shape of a segment of a circle, the 2" (50.8mm) chord of the segment joining the panel wall and the segment, protruding 3/8" (9.53mm) from the panel. The nine ground locks on each panel shall be about equally spaced between each of the vertical root deflecting ribs (3 between each set of ribs, see Detail "B").

An integrated Zipper Joining System providing for instant assembly by sliding one panel into another. (See Detail "C")

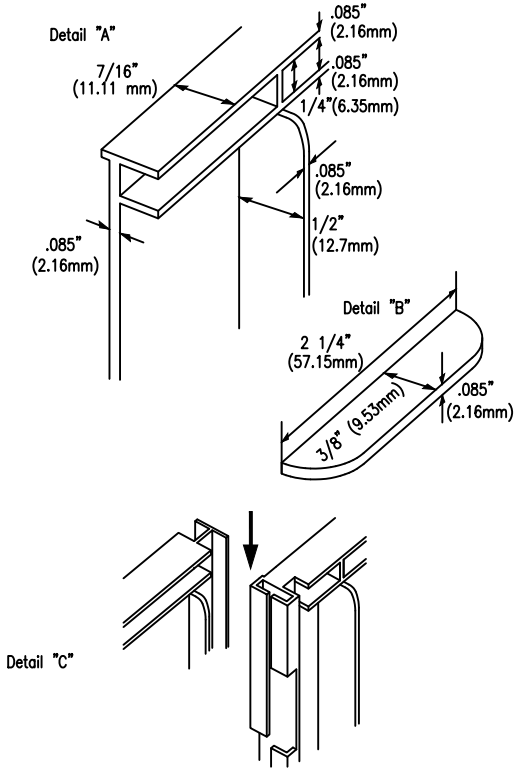
2.The basic properties of the material shall be:

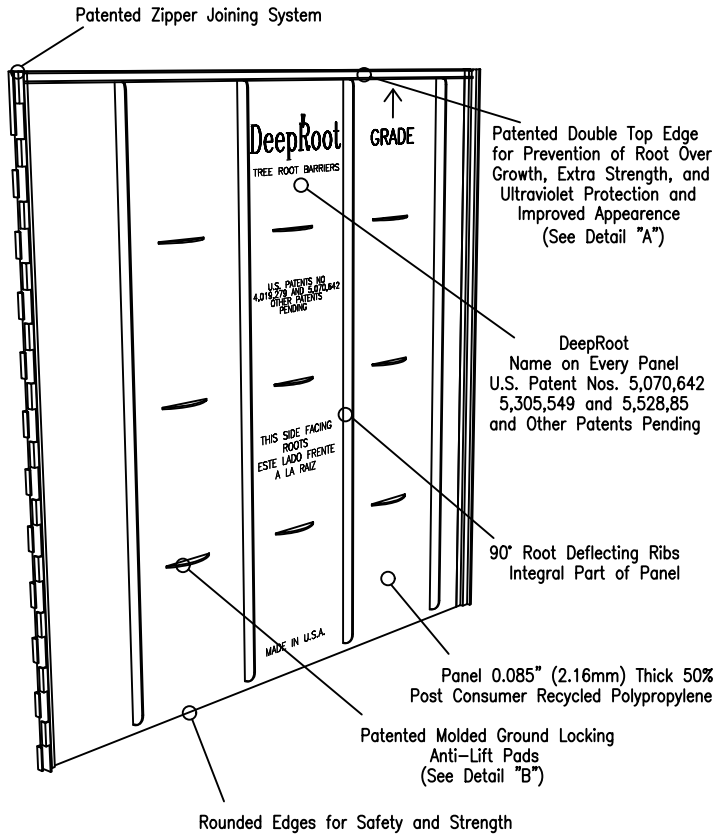
Test	ASTM Test Method	Typical Value Copolymer Polypropylene
Tensile strength @ yield – Wall	D638	2.354 PSI
Tensile strength @ yield – Hinge	D638	2.846 PSI
Yield Elongation – Wall	D638	7.44%
Yield Elongation – Hinge	D638	7.01%
Flexural Modulus	D790B	119.625 PSI
Notched Izod Impact – Wall	D256A	3.84 (ft–lbs)
Rockwell Hardness r. scale – Wall	D785A	84.4

B. Construction and Installation

1. The contractor shall install the tree root barriers with the number of panels and in the manner shown on the Draw–ings. The vertical root deflecting ribs shall be facing inwards to the root ball and the double top edge shall be 1/2" (12.7mm) above grade. Each of the required number of panels shall be connected to form a circle around the root ball or joined in a linear fashion and placed along the adjacent hardscape.

2. Excavation and soil preparation shall conform to the Drawings





DRAWING NOT TO SCALE

STANDARD ROOT GUARD

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS817**

DATE	REVISIONS

HOLLY SPRINGS
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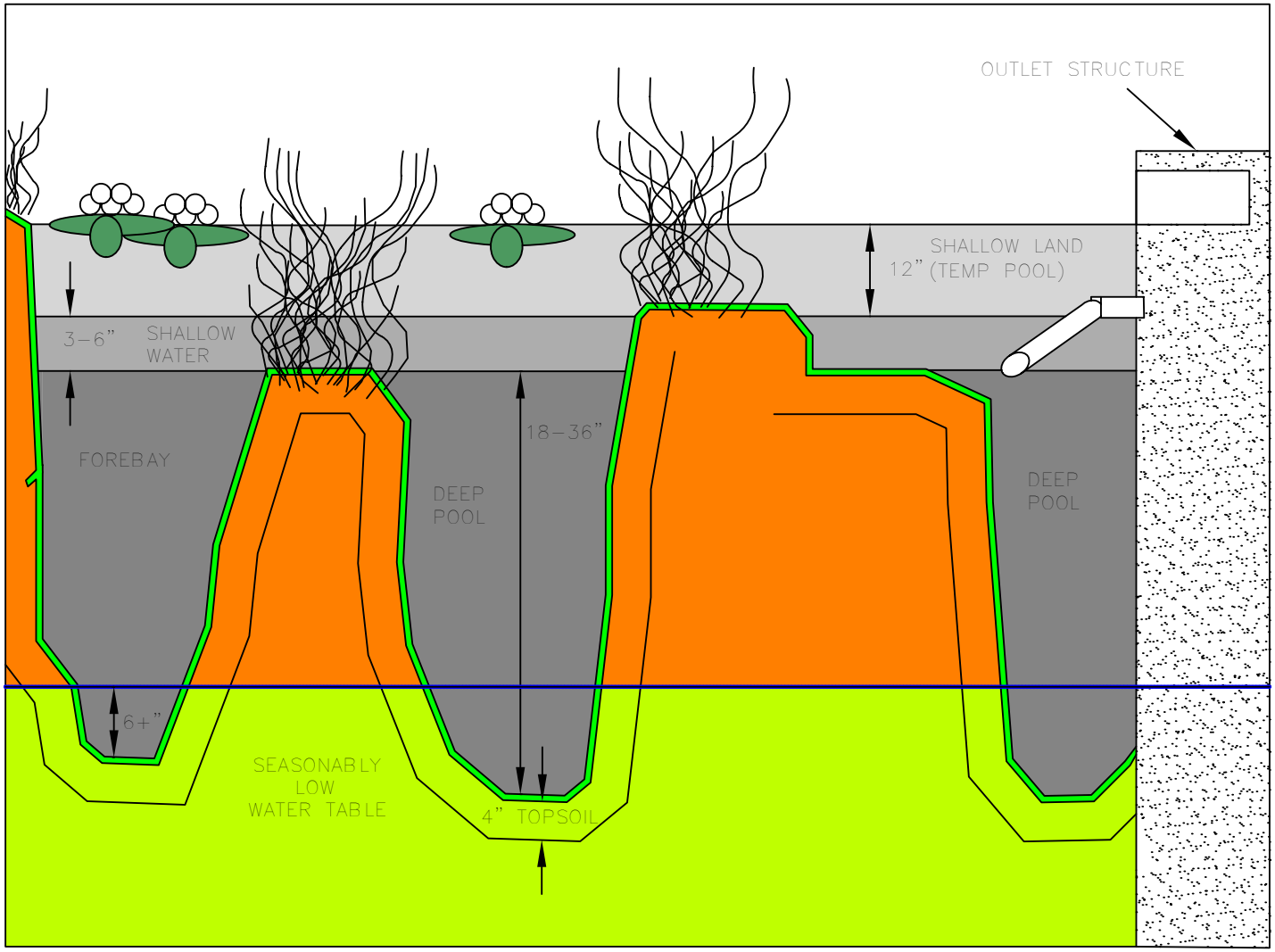

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BMP - OPTION 1

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS818

DATE	REVISIONS
9/2/09	

Holly Springs
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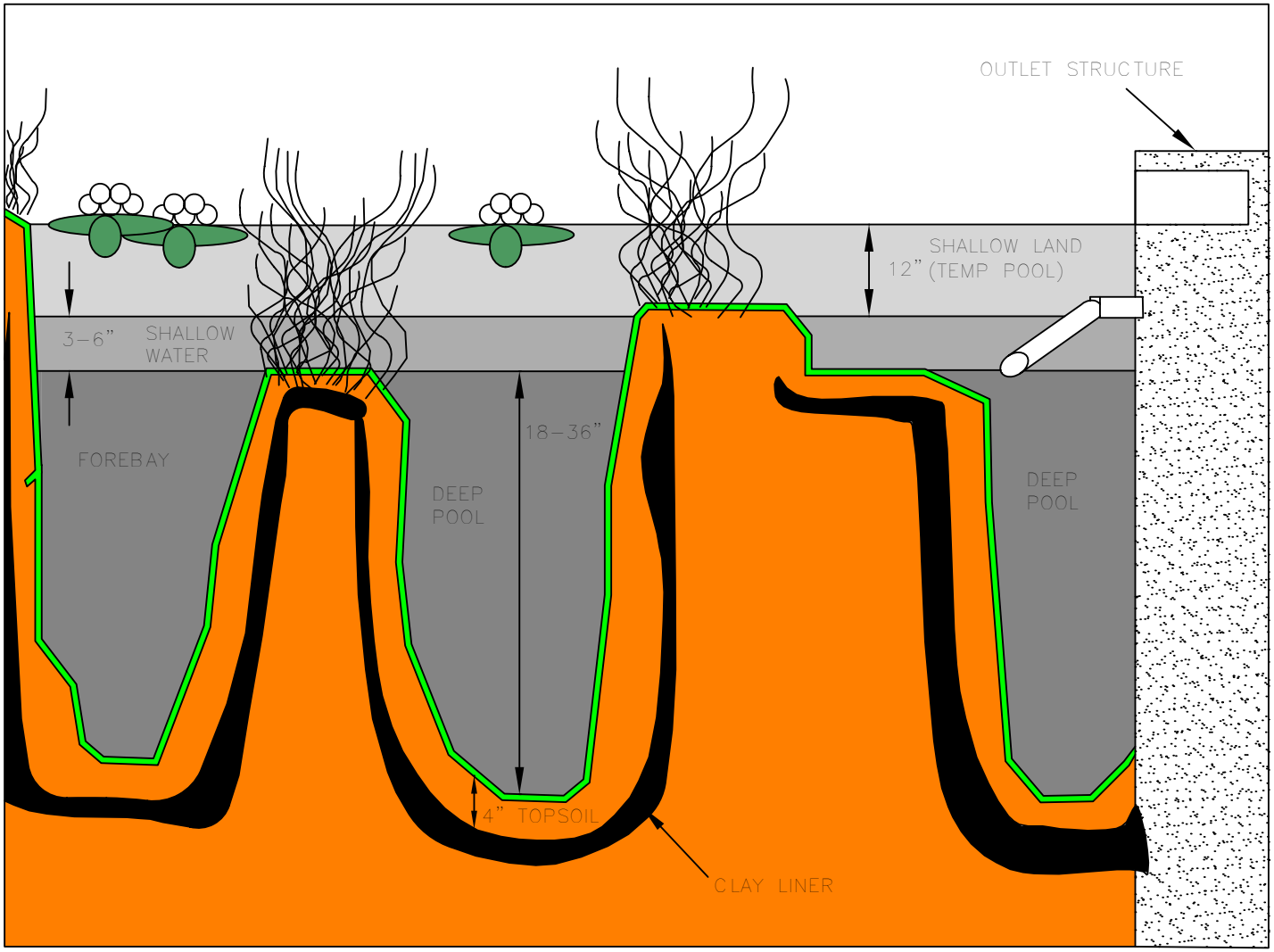

DRAWING NOT TO SCALE

BMP - OPTION 2

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS819

DATE	REVISIONS
9/2/09	

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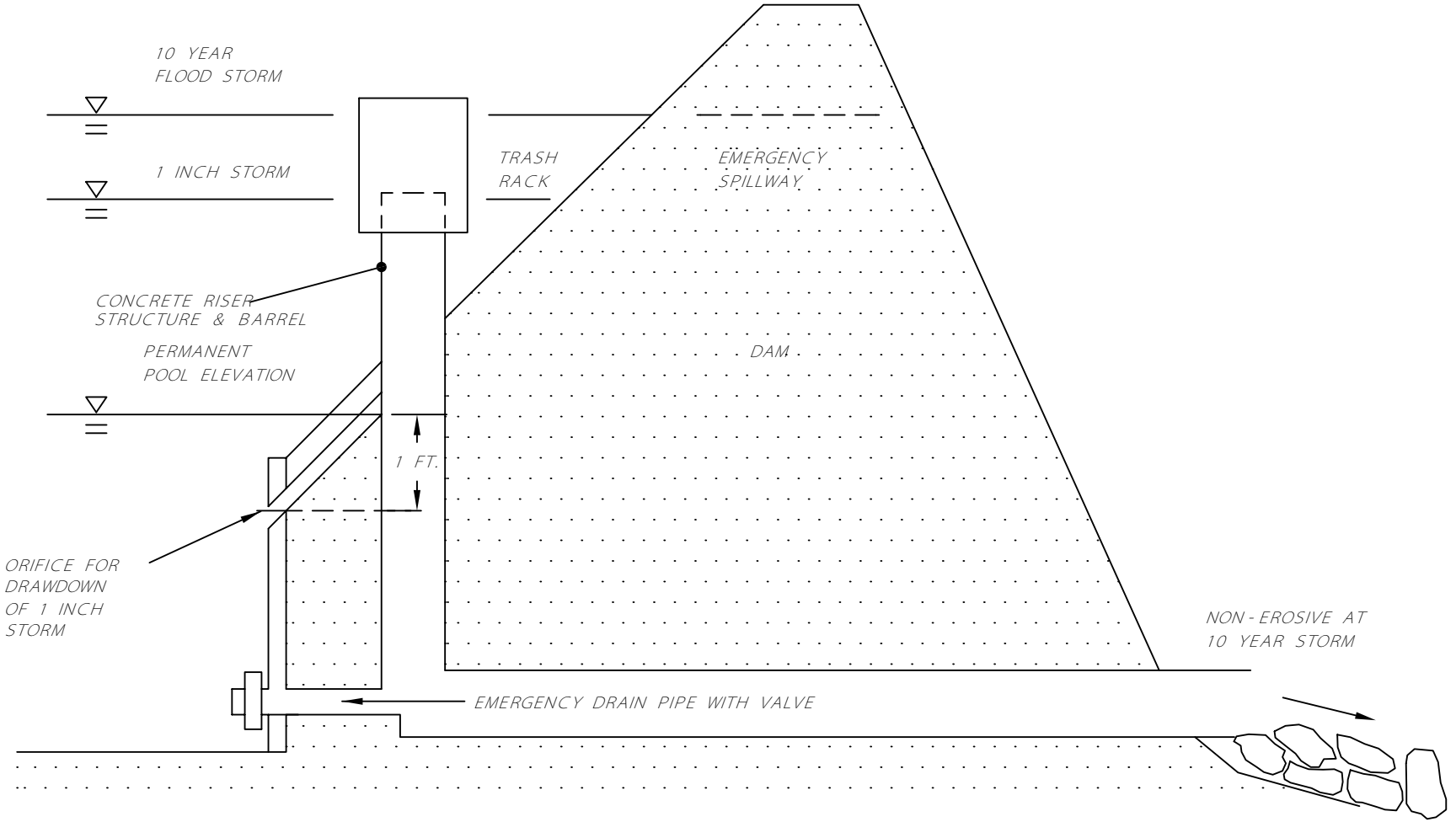
FIGURE 1



DRAWING NOT TO SCALE

WET DETENTION BASIN

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER HS820

DATE	REVISIONS
3/15/10	

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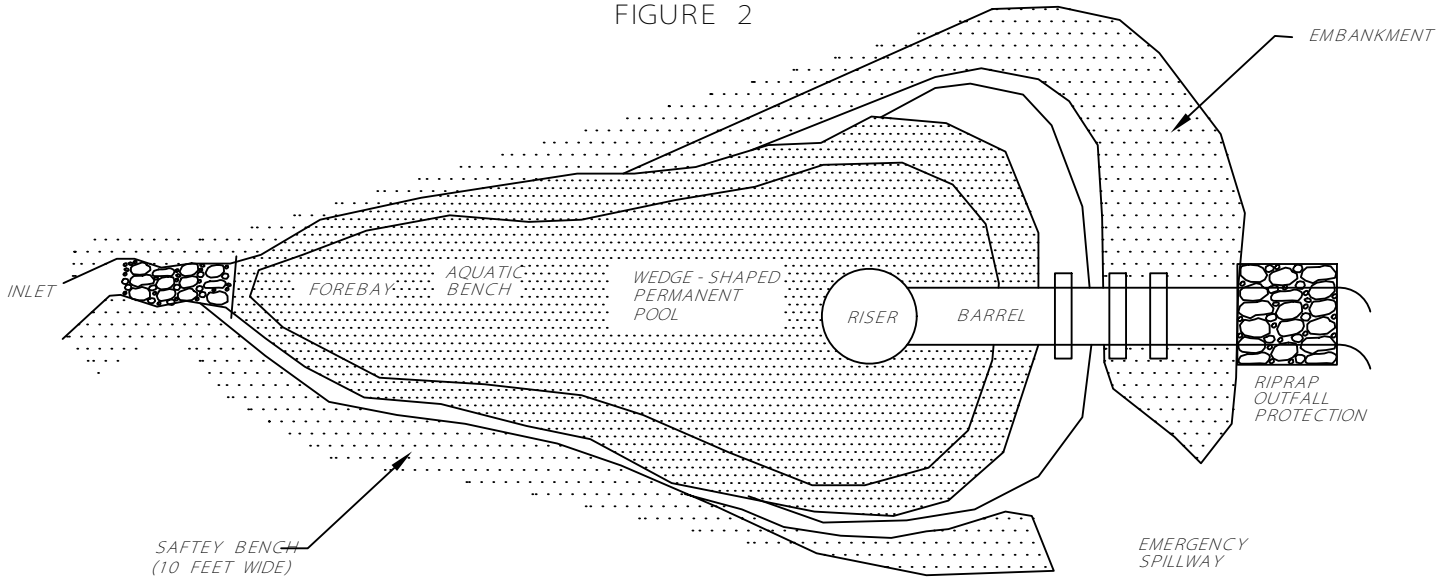
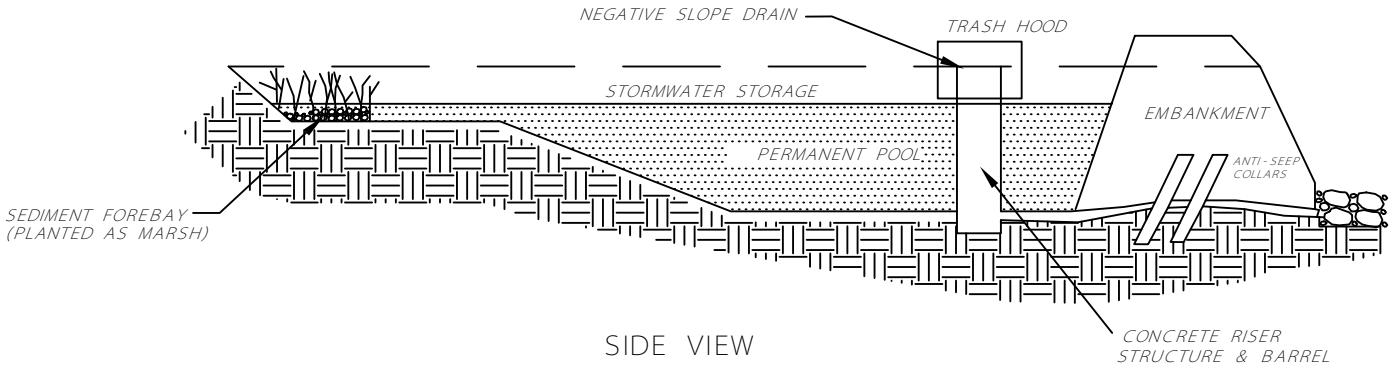
FIGURE 2



TOP VIEW



SIDE VIEW

DRAWING NOT TO SCALE

WET DETENTION BASIN DESIGN

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER HS821

DATE	REVISIONS
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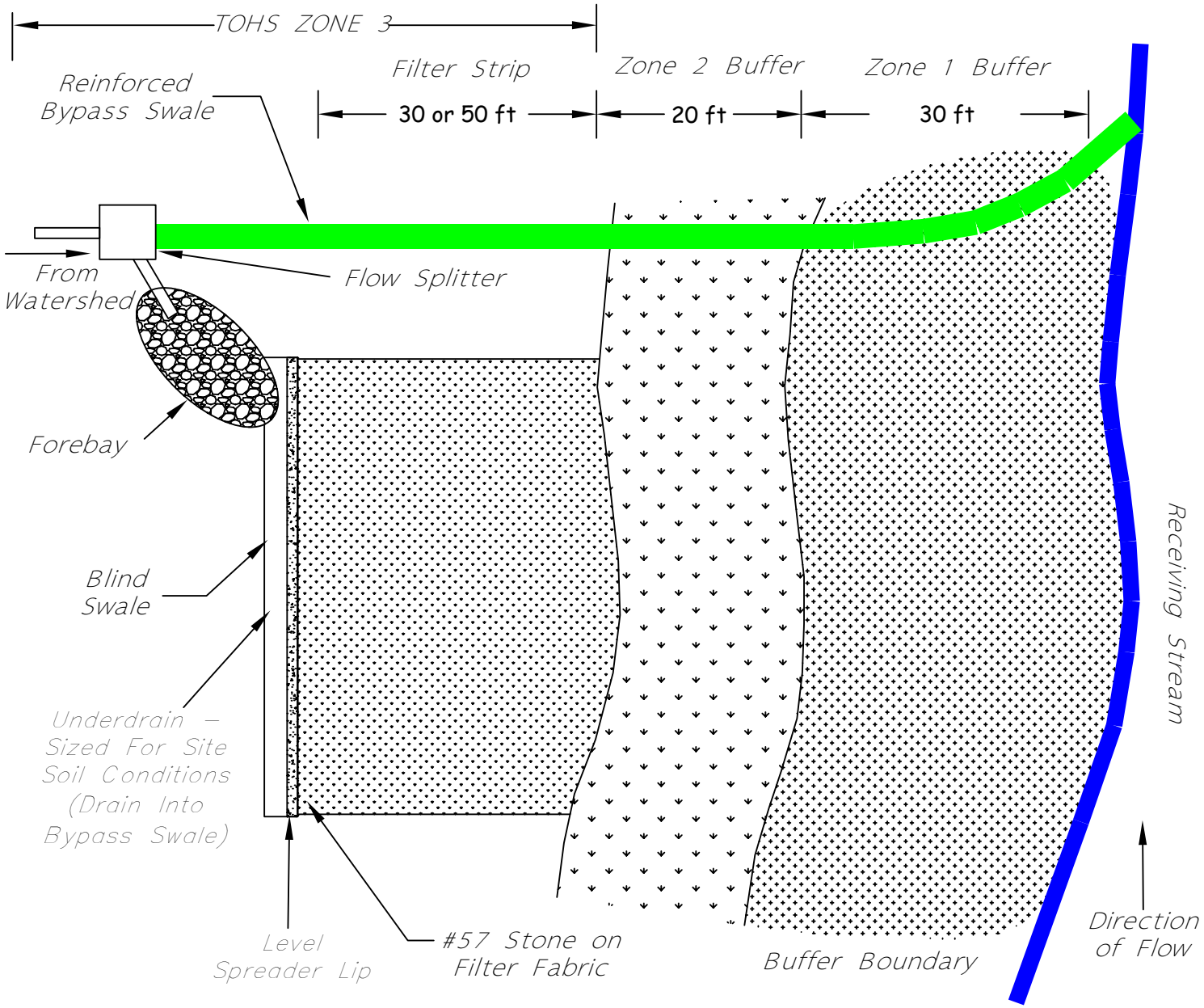


NOTE:
THIS DEVICE CAN ONLY BE USED IN THE BASS LAKE BUFFER WITH TOWN COUNCIL APPROVAL

DRAWING NOT TO SCALE

LEVEL SPREADER WITH FILTER STRIP

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

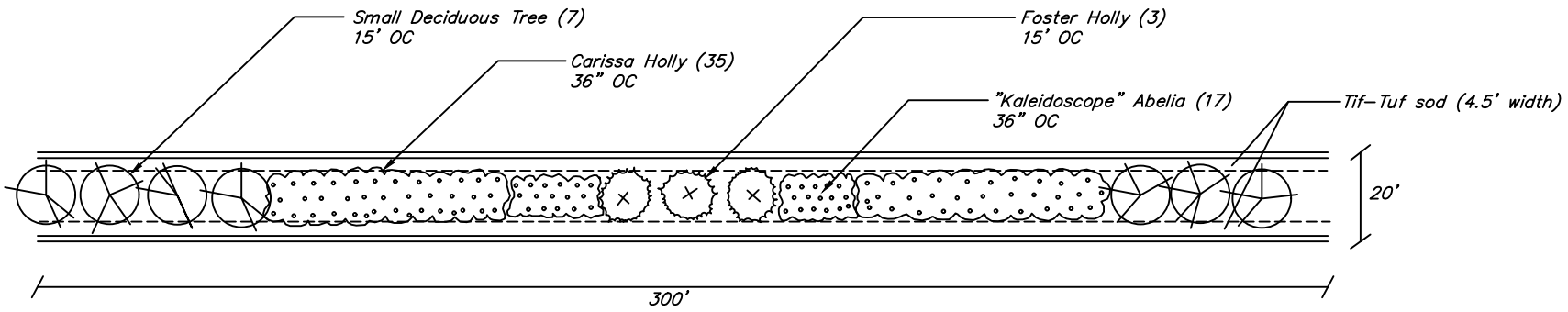
STANDARD DETAIL NUMBER: HS822

DATE	REVISIONS
8/13/10	

Holly Springs
Discover The Sourc

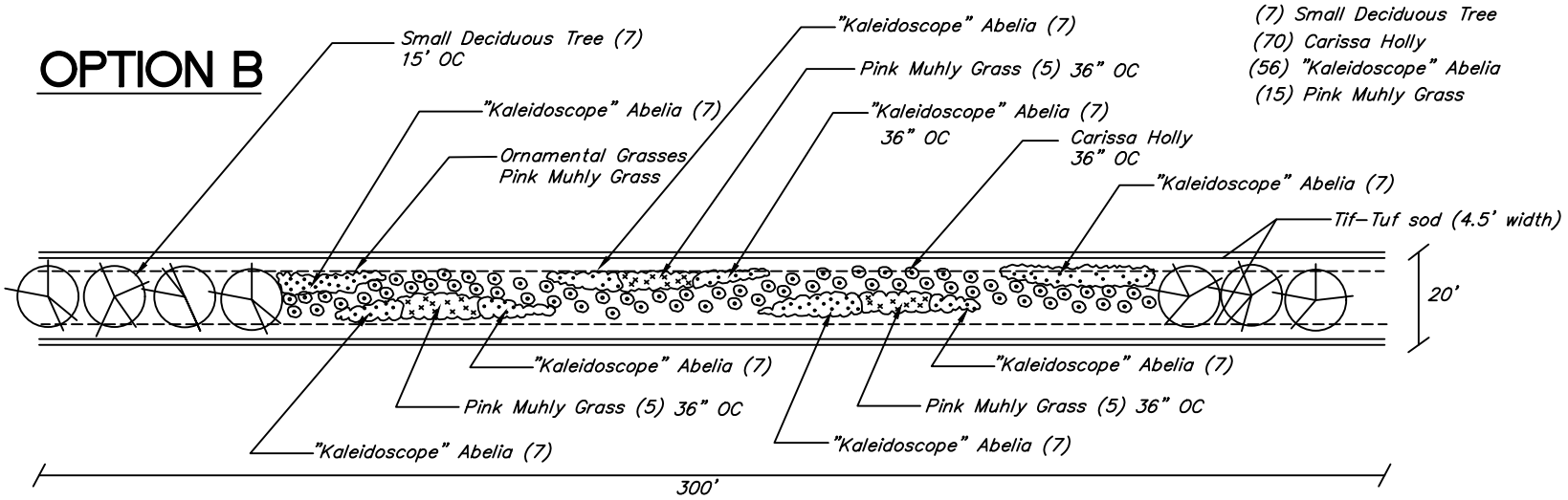
OPTION A

(7) Small Deciduous Tree
(3) Foster Holly
(70) Carissa Holly
(34) "Kaleidoscope" Abelia



OPTION B

(7) Small Deciduous Tree
(70) Carissa Holly
(56) "Kaleidoscope" Abelia
(15) Pink Muhly Grass



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MEDIAN LANDSCAPING

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS823**

DATE	REVISIONS
4/5/19	

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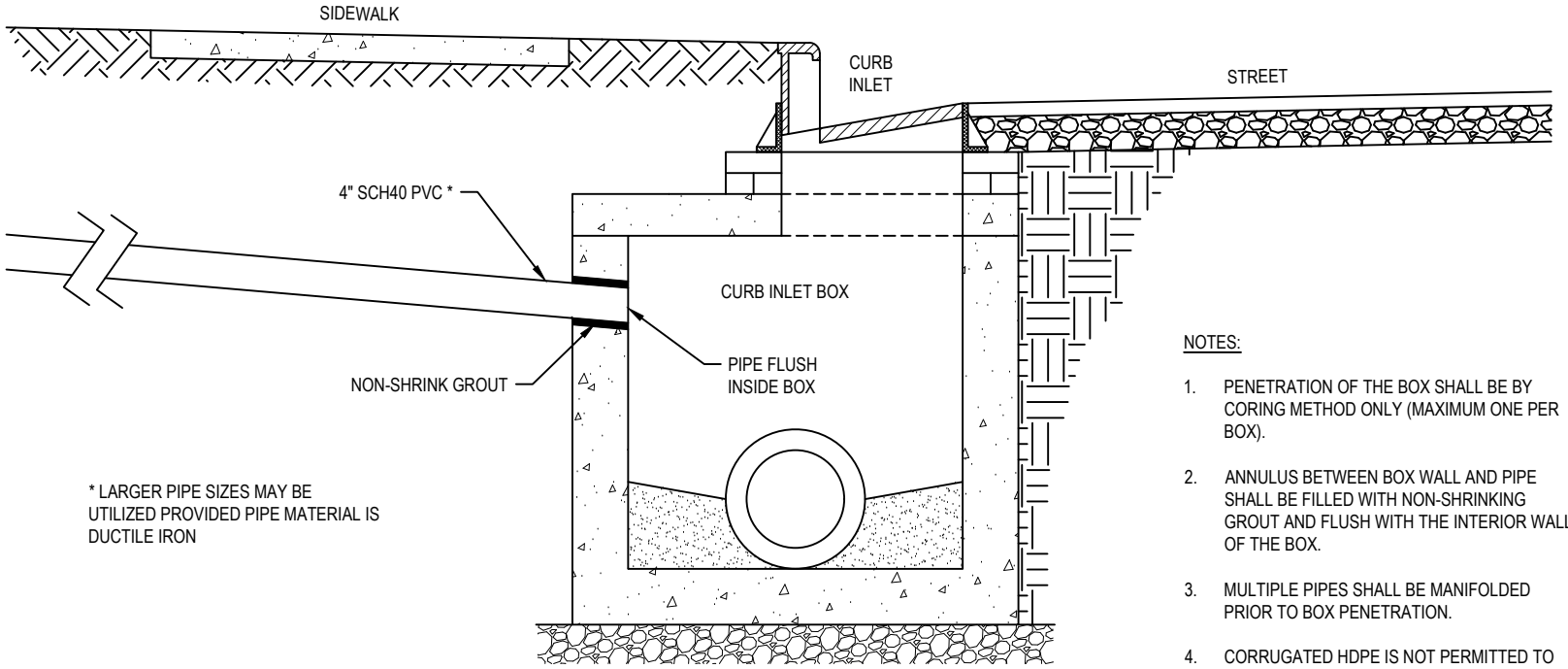

* LARGER PIPE SIZES MAY BE UTILIZED PROVIDED PIPE MATERIAL IS DUCTILE IRON

NOTES:

1. PENETRATION OF THE BOX SHALL BE BY CORING METHOD ONLY (MAXIMUM ONE PER BOX).
2. ANNULUS BETWEEN BOX WALL AND PIPE SHALL BE FILLED WITH NON-SHRINKING GROUT AND FLUSH WITH THE INTERIOR WALL OF THE BOX.
3. MULTIPLE PIPES SHALL BE MANIFOLDED PRIOR TO BOX PENETRATION.
4. CORRUGATED HDPE IS NOT PERMITTED TO PENETRATE THE BOX WALL.

DRAIN CONNECTION TO STORM DRAIN BOX

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS824

DATE	REVISIONS
12/19/23	

HOLLY SPRINGS
North Carolina