

## Holly Springs Engineering Details - as of Supplement 13 (Dec. 2025)

Detail No.	Detail Description
HS001	Standard exterior handrail detail
HS002	Precast concrete pedestrian/bicycle underpass
HS003	Fence gate
HS004	Stone column detail
HS005	Standard Project Sign
HS007	Standard In-Ground Bike Rack
HS008	Surface Mount Bike Rack
HS009	Metal Bench - 52"
HS010	Metal Trash and Recycling Can
HS011	Metal Bench - 6FT
HS012	Decorative Fence Detail
HS013	Greenway Bench
HS014	Greenway Trash and Recycling Cans

### Chapter 3 - Streets, Driveways, & Parking Lots

HS302	Standard residential street cross section
HS308	Standard median design
HS310	Standard street cross sections-showing utility locations
HS311	Standard alleys cross section (Inverted crown)
HS312	Cul-de-sac dimensions
HS313	Typical Round-A-Bout Detail
HS314	Round-A-Bout Hardscape Detail
HS315	Concrete Scoring (Splitter Island) Detail
HS316	Round-A-Bout Vehicular Conc. Pavement Detail
HS317	Standard shoulder section without sidewalk
HS318	Standard section without curb & gutter
HS319	Standard turning radii for su and wb-50 design vehicles
HS320	Standard driveway apron
HS321	Standard concrete curb and gutter
HS322	A.B.C. under curb and gutter
HS323	Standard method of ending curb and gutter
HS324	Standard Flume
HS325	Standard Curb and Drain
HS326	Standard trench and pavement repair section
HS327	Standard concrete sidewalk
HS328	Interlocked concrete paver street section
HS329	Brick paver sidewalk 12', 8' or 5'
HS330	Single Ramp Residential For Minor Subdivision Roads
HS333	Intersection Sight Distance Stop Sign Control Multi-Lane Roadway
HS334	Measurement of Horizontal Intersection Sight Distance
HS335	Sight Distance Left Turn From Through Street
HS336	Sight Distance Yield Controlled Intersections
HS337	Measurement of Vertical Intersection Sight Distance
HS338	5ft Boardwalk Detail (Also HS_33EC)

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Detail No.	Detail Description
HS339	10ft Raised Boardwalk/ Greenway Trail
HS340	10' Asphalt Greenway Trail
HS341	Collapsible and Fixed Bollard Post Detail
HS342	22' Pavement Speed Hump -Repair and Replacement only.
HS343	French Drain Under Asphalt Trail
HS344	End island for parking lots
HS345	Standard Parallel Parking One Side
HS346	Standard Parallel Parking Both Sides
HS347	Standard 45deg Parking Detail
HS348	Standard 60deg Parking Detail
HS349	Standard 75deg Parking Detail
HS350	Parking Lot Stall Dimensions
HS352	Trex boardwalk detail
HS353	End of road markers (dead end)
HS354	End of road markers
HS355	Standard pavement widening taper and marking
HS356	Triassic basin dividing line
HS357	Post-Mounted Standard Town Street Name Sign Blade
HS358	Mast Arm / Overhead Mounted Standard Town Street Name Blade Sign
HS359	Standard Traffic Control and Street Name Sign and Posts for Local, Collector and Minor Thoroughfares
HS360	Standard Traffic Control and Street Name Sign and Posts for Thoroughfares
HS361	Upgraded Traffic Control and Street Name Sign and Posts
HS363	Storm Drain Weep Hole
HS364	Flat Concrete Curb and Gravel Verge
HS365	French Drain Curb Detail
HS366	Minimum of Separation of Utilities and Other Features
HS367	Dead End Road
HS368	Typical Small Cell Installations
HS369	Sign Post Foundation
HS370	Village District Pedestrian Light Fixture
HS372	8' Brick Paver Band Sidewalk
HS373	Secondary Gateway Sign Post Foundation
HS374	Holly Springs Welcome Sign
HS375	Public Parking Sign
HS376	Public Parking Arrow Sign
HS377	Church Parking Sign
HS378	Reserved Parking Sign
HS379	Asphalt Sidepath
HS380	Concrete Sidepath
HS382	Standard Trail Stop Sign
HS383	Greenway Culvert Detail
HS384	Curb Ramp Proposed Curb and Gutter
HS385	Curb Ramp and Existing Sidewalk with Grass Strip

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HS386	Curb Ramp and Existing Sidewalk Adjacent to Curb
HS387	Retrofitting Detectable Warning Surface onto Existing Curb Ramp
HS388	Curb Ramp Location
HS389	Directional Ramp 1A
HS390	Directional Ramp 1B-1D
HS391	Parallel Ramp 2-2B
HS392	Parallel Ramp 3
HS393	Shared Landing 4-4C
HS394	Shared Landing 5-5A
HS395	Island Ramp 6-7
HS396	Curb Ramp Notes
HS397	Greenway Sign
HS398	Primary Gateway Sign

## Chapter 4 - Soil Erosion & Sedimentation Control

HS401	Temp silt fence
HS402	Temp silt/ tree protection fence
HS403	Tree protection detail
HS404	Silt fence Outlet
HS405	Gravel & rip rap basin/ outlet
HS407	Gravel & rip rap horseshoe inlet basin
HS408	Catch basin riser/ filter
HS409	Standard Skimmer Filter Basin (Plan)
HS410	Standard Skimmer Filter Basin (Profile)
HS411	Standard skimmer detail
HS412	Standard Riser-Barrel Sediment Basin (with Skimmer)
HS413	Check Dam
HS415	Residential construction entrance
HS416	Construction exit wash rack
HS417	Diversion ditch
HS418	Temp stream crossing
HS420	Inlet sediment control device
HS422	Standard catch basin/ yard inlet protection
HS423	Pipe inlet protection (plywood & stone)
HS424	Temporary Diversion
HS425	Temporary slope drain
HS426	Rip rap lined channels
HS427	Pipe outlet to flat area (no well-defined channel)
HS428	Pipe outlet to well-defined channel
HS429	Erosion control schedule Shoulders, side ditches, slopes (Table 4.1)
HS430	Erosion control schedule (Table 4.2)
HS432	Construction Entrance
HS434	Excavated Drop Inlet Protection

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Detail No.	Detail Description
HS435	Below Grade Concrete Washout Structure
HS436	Above Grade Concrete Washout Structure
HS437	SCM Educational Signage
HS438	Coir Fiber Baffle
<b><u>Chapter 5- Pipe Trenches</u></b>	
HS501	Tracer Wire-PVC Pressure Pipe (Reclaimed Water Main)
HS502	Tracer Wire-Gravity Sewer Details
HS503	Tracer Wire-Force Main
HS504	Standard Utility Maker Ball Locations
<b><u>Chapter 6 - Water Distribution</u></b>	
HS601	Standard valve box installation
HS602	Yard hydrant (nonfreeze)
HS603	Standard valve rodding
HS604	Standard capping detail
HS605	Standard blow-off assembly
HS606	Standard 2" blow-off assembly
HS607	Standard Steel Encasement for Stream Crossing
HS608	Water Bore & Jack
HS609	Carrier pipe
HS610	Combination Air Valve Manhole for Reclaimed and Water Mains
HS611	Standard Combination Air Valve Manhole Offset From Main for Reclaimed and Water Mains
HS612	Butterfly valve with manhole around actuator
HS613	Standard hydrant location
HS614	Standard hydrant location (for parking lot)
HS615	Standard 3/4" Water Service
HS616	Standard 1-1/2" meter installation and vault
HS617	Standard multiple branch services
HS618	RPZ Installation for all commercial or irrigation meters
HS619	Outdoor services cover
HS620	RPZ Installation for Residential Irrigation Meters
HS621	4" Meter Assembly Vault
HS622	Standard Hydrant Installation
HS623	Standard Thrust Collar Installation
HS624	Standard Reaction Blocking
HS625	Standard Detached FDC Connection
HS626	Standard Sprinkler Riser
HS627	Post Indicator Valve
HS628	4"-24" Standard Tapping Sleeve and Valve Assembly
HS630	2" Meter Setter with High Bypass
HS631	Standard 2" Meter Installation and Vault

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Detail No.	Detail Description
HS633	Standard Utility Marker Ball Locations for Water Mains
HS634	Standard Water Meter Lid
HS635	Standard Vertical Bend
<b><u>Chapter 7 - Sanitary Sewer</u></b>	
HS703	Bedding for flexible and semi-rigid sanitary sewer pipe
HS704	Standard aerial crossing
HS705	Combination sewage air valve manhole (for sanitary sewer force mains)
HS706	Standard precast concrete manhole
HS707	Standard inside drop manhole
HS708	Standard outside drop manhole
HS709	Manhole steps
HS710	Standard manhole ring and cover encasement for manholes located in paved areas
HS711	Standard manhole ring and cover for outside of pavement
HS712	Standard manhole ring and cover for watertight manholes
HS713	Standard high velocity manhole invert
HS714	Standard typical manhole vent detail
HS715	Standard sanitary sewer tap and service
HS716	Standard sanitary lateral connections for new lines
HS717	Standard sanitary lateral connections for existing lines
HS718	Standard inside drop for sanitary sewer service
HS719	Standard air test table
HS722	Manhole Cover & Frame For Outfalls
HS723	Sewer Mini-Manhole Cleanout Cover Assembly For Traffic Area
HS724	Standard Steel Encasement for Stream Crossing
HS725	Precast Grease Interceptor
HS727	Standard Combination Air Valve Manhole for Sewer FM, Type 2
HS728	Standard Precast Concrete Doghouse Manhole
HS729	Standard Utility Marker Ball Locations for Sewer Force Mains
<b><u>Chapter 8 - Stormwater</u></b>	
HS801	Precast concrete manhole storm drainage junction box
HS802	Standard yard inlet with grate and frame
HS803	Standard yard inlet with concrete slab
HS804	Concrete block or brick catch basin
HS805	Precast concrete catch basins
HS806	Standard median curb inlet (full water flow)
HS807	Standard median curb inlet
HS808	Typical Section of Dry Extended Detention with Infiltration
HS809	Typical Wetland Section
HS810	Typical Level Spreader
HS811	Typical Wet Detention Basin Section
HS812	Typical Bioretention Section

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Detail No.	Detail Description
HS813	Typical Dry Detention Basin Section
HS814	Standard Frame Label For Catch Basin
HS815	Standard Placement Of Storm Drain Marker
HS816	Standard Root Guard Installation
HS817	Standard Root Guard
HS818	BMP - Option 1
HS819	BMP - Option 2
HS820	Wet Detention Basin
HS821	Wet Detention Basin Design
HS822	Level Spreader
HS823	Median Landscaping
HS824	Drain Connection to Storm Drain Box

### Chapter 10 - Environmental

HS1001	Lot Grading Type
HS1002	Lot Erosion and Sedimentation Control

### Chapter 11 - Reclaimed Water Distribution

HS1101	Combination Air Valve Manhole for Reclaimed and Water Mains
HS1102	Standard Combination Air Valve Manhole Offset From Main for Reclaimed and Water Mains
HS1104	Standard 3/4" Water Service & Meter Box Installation (recl water)
HS1105	Standard 1" Water Service & Meter Box Installation (recl water)
HS1106	Holly Springs Reclaimed Water Box and Lid
HS1107	Standard Reclaimed Water 4" Blow-off Assembly
HS1108	Air Release Reclaimed Water Manhole
HS1109	Standard Valve Box (recl water)
HS1110	Reclaimed Water Usage Sign

### Chapter 13- Pump Station and Force Main

HS1301	Pump Station Site Layout and Minimum Dimensions
HS1302	Typical Pump Station Layout
HS1303	Typical Chain Link Fence
HS1304	Typical Security Double Gate
HS1305	Standard Pump Station Location Sign
HS1306	Pump Station Acess Road
HS1307	Wet Well Hatch
HS1308	Sewage Grinder Vault
HS1309	Sewage Grinder Unit (Wet Well Installation)
HS1310	Force Main Air Release Manhole
HS1311	Combination Sewage Air Valve Manhole With Odor Scrubber
HS1312	Standard Valve Box Installation
HS1313	Force Main Discharge Manhole