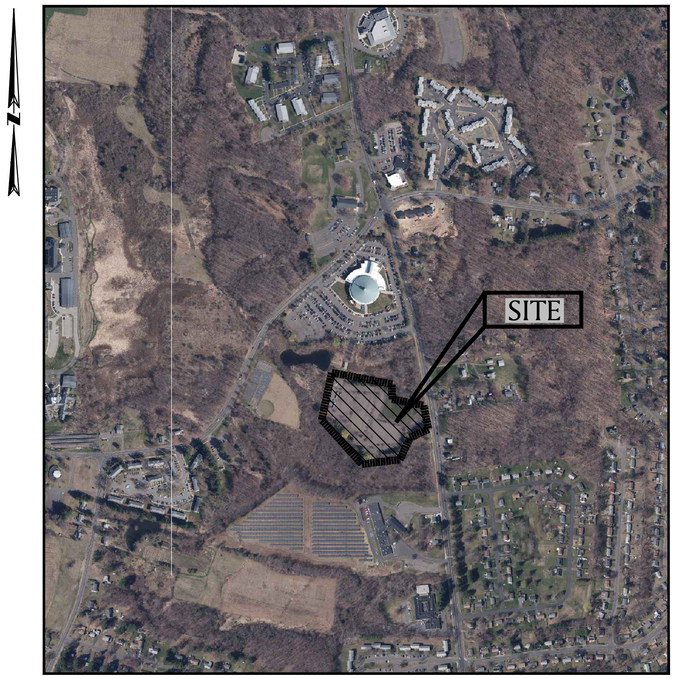
FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE
BLOOMFIELD, CONNECTICUT

NOVEMBER 14, 2025

LATEST REVISION: NONE



SITE MAP

250 0 500 1000 1500 feet

SCALE: 1" = 500'

INDEX OF DRAWINGS

PREPARED FOR:

THE FIRST CATHEDRAL
1151 BLUE HILLS AVENUE
BLOOMFIELD, CT

ISSUED FOR
INLAND WETLANDS

CIVIL ENGINEER:

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard, Suite 305
Glastonbury, Connecticut
06033
860 652 8227

STATE OF CONNECTICUT · FRANCIS J. VACCA · 29098 · LICENSED PROFESSIONAL ENGINEER

ARCHITECT:

PAUL B. BAILEY • ARCHITECT •

JOB NO: 0101403.00 DWG NO:

LOCUS MAP
1" = 2,000'

THE WETLAND DELINEATION REPRESENTED ON THIS PLAN WAS COMPLETED IN ACCORDANCE WITH CGS CHAPTER 440, SECTION 22a-36 - 22a-45 AND THE BLOOMFIELD INLAND WETLAND AND WATERCOURSES REGULATIONS.

ETHAN SNEESBY, R.S.S. (S.S.S.S.N.E)
BSC GROUP
180 GLASTONBURY BLVD.
GLASTONBURY, CT 06033
860-652-8227

DATE OF DELINEATION: 12/3/2024-12/4/2024

SURVEY NOTES

1. THIS SURVEY AND MAP HAVE BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20, AS REVISED AND THE "STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON AUGUST 29, 2019.

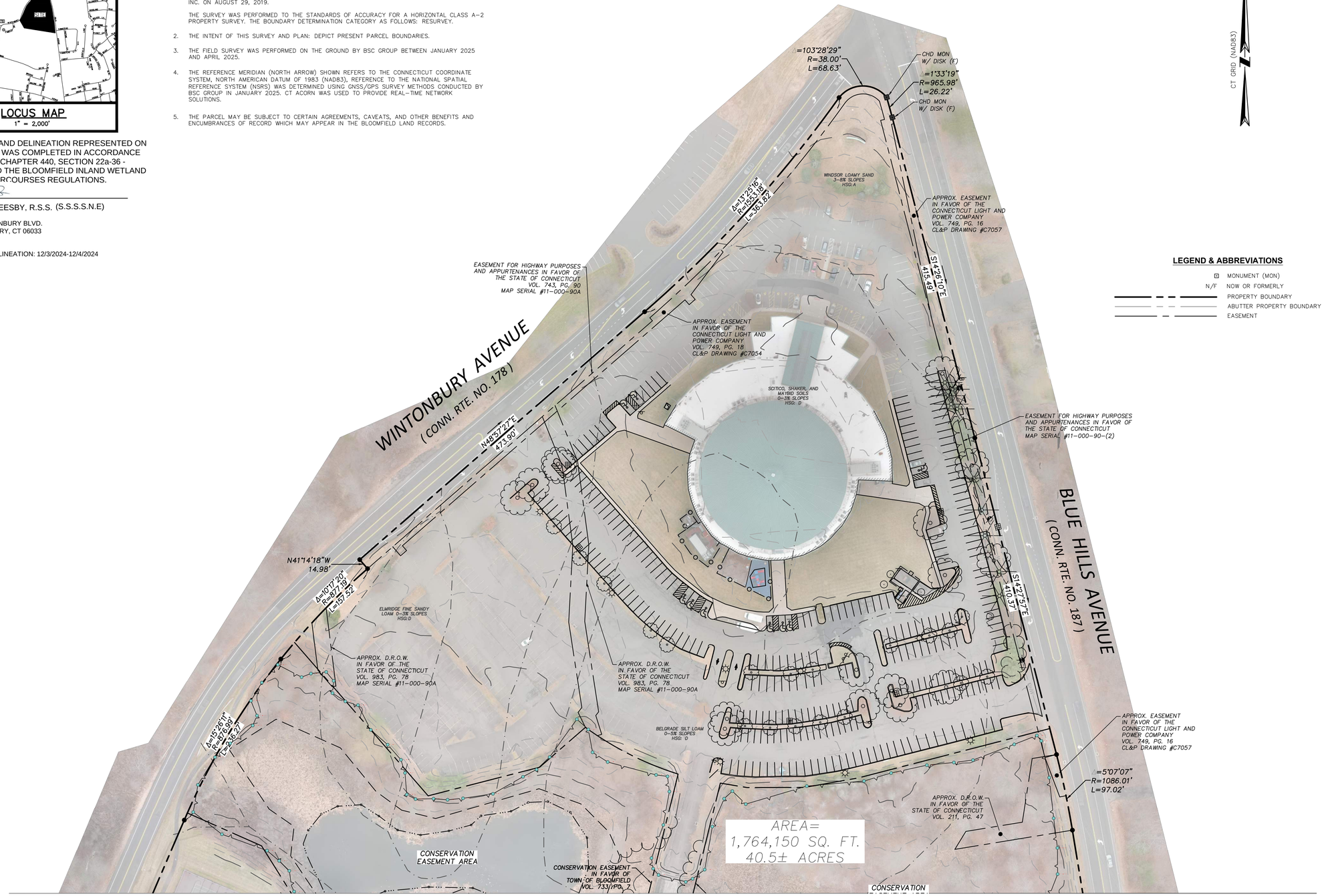
   THE SURVEY WAS PERFORMED TO THE STANDARDS OF ACCURACY FOR A HORIZONTAL CLASS A-2 PROPERTY SURVEY. THE BOUNDARY DETERMINATION CATEGORY AS FOLLOWS: RESURVEY.

2. THE INTENT OF THIS SURVEY AND PLAN: DEPICT PRESENT PARCEL BOUNDARIES.

3. THE FIELD SURVEY WAS PERFORMED ON THE GROUND BY BSC GROUP BETWEEN JANUARY 2025 AND APRIL 2025.

4. THE REFERENCE MERIDIAN (NORTH ARROW) SHOWN REFERS TO THE CONNECTICUT COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83), REFERENCE TO THE NATIONAL SPATIAL REFERENCE SYSTEM (NSRS) WAS DETERMINED USING GNSS/GPS SURVEY METHODS CONDUCTED BY BSC GROUP IN JANUARY 2025. CT ACORN WAS USED TO PROVIDE REAL-TIME NETWORK SOLUTIONS.

5. THE PARCEL MAY BE SUBJECT TO CERTAIN AGREEMENTS, CAVEATS, AND OTHER BENEFITS AND ENCUMBRANCES OF RECORD WHICH MAY APPEAR IN THE BLOOMFIELD LAND RECORDS.



MATCH LINE – SEE SHEET 2

LEGEND & ABBREVIATIONS

- ⊡ MONUMENT (MON)
- N/F NOW OR FORMERLY
- PROPERTY BOUNDARY
- ABUTTER PROPERTY BOUNDARY
- EASEMENT

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS SURVEY IS NOT VALID UNLESS IT CONTAINS THE LIVE SIGNATURE AND EMBOSSED SEAL CONTAINED HEREON. SUBSEQUENT REVISIONS TO THIS PLAN OTHER THAN BY THE ORIGINAL SURVEYOR EFFECTUALLY VOID THIS CERTIFICATION.

STATE OF CONNECTICUT · TODD B. DAWIDOWICZ · 70418 · LICENSED LAND SURVEYOR

TODD B. DAWIDOWICZ
CT P.L.S. #70418

PROPERTY SURVEY

BLOOMFIELD FIRST CATHEDRAL MASTERPLAN AND HOUSING

1151 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

JULY 3, 2025

REVISIONS:

NO.	DATE	DESC.
1	11/13/25	WETLAND DELINEATION INFO.

PREPARED FOR:
PAUL B. BAILEY ARCHITECT, LLC.
110 AUDUBON STREET
NEW HAVEN, CT 30339

BSC GROUP
BUILD | SUPPORT | CONNECT
665 Winding Brook Drive
Glastonbury, Connecticut 06033
(860)652-8227

SCALE: 1" = 60'
0 30 60 120 FEET

FILE: P:\010140300\SURVEY\DRAWINGS
DWG.: 0101403.00BDY – FJV
JOB. NO: 0101403.00
SHEET 1 OF 2

SEE SHEET 1 OF 2 FOR SURVEY NOTES.

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STATE OF CONNECTICUT
TODD B. DAWIDOWICZ
70418
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LAND SURVEYOR

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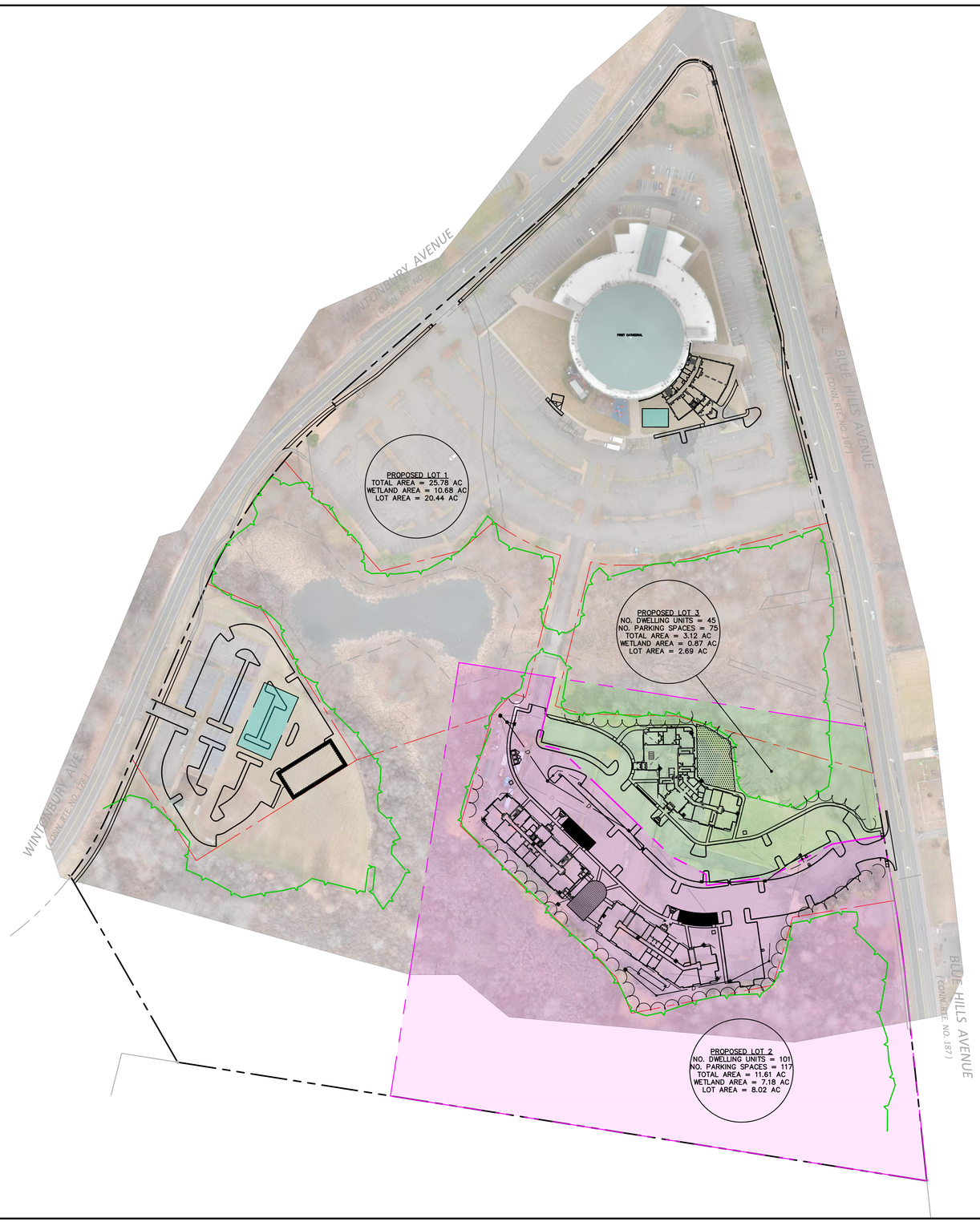

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PAUL B. BAILEY
• ARCHITECT •

PROPOSED SUBDIVISION PLAN

1151 BLUE HILLS AVENUE HOUSING DEVELOPMENT

SCALE: 1" = 100'

0 50 100 200 FEET

SUB-1.0

EROSION & SEDIMENTATION CONTROL NOTES:

1. DO NOT PROCEED WITH THE WORK UNTIL ALL E&S CONTROL MEASURES ARE IN-PLACE AND HAVE BEEN INSPECTED AND APPROVED BY THE ENGINEER.
2. THE MEASURES SPECIFIED HEREON ARE THE MINIMUM REQUIREMENTS FOR E&S CONTROL AND ARE SHOWN IN GENERAL SIZE AND LOCATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL E&S CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO ANY RESOURCE AREAS. PROVIDE ADDITIONAL E&S MEASURES AS REQUIRED TO CONTROL EROSION AND SILTATION THROUGHOUT THE DURATION OF THE CONSTRUCTION AS CONDITIONS DICTATE AND/OR AS DIRECTED BY THE OWNER OR THE ENGINEER.
3. MONITOR AND INSPECT ALL E&S MEASURES IN AN ONGOING MANNER THROUGHOUT THE WORK AND TAKE CORRECTIVE MEASURES, AS REQUIRED, TO MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO ANY RESOURCE AREAS.
4. ANY EROSION AND SEDIMENTATION MEASURE IMPLEMENTED BEYOND THAT SHOWN HEREON SHALL CONFORM TO APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT'S "2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL."
5. ANY STOCKPILED MATERIAL SHALL BE SUBJECT TO EROSION CONTROL MEASURES THAT INCLUDE A MINIMUM OF SILT FENCE OR HAY BALE BARRIER COVER STOCKPILES IF SIGNIFICANT RAINFALL IS PREDICTED.
6. PROVIDE TEMPORARY SEEDING WITH MULCH ON ALL EXPOSED SOIL AREAS WHERE WORK WILL BE SUSPENDED FOR LONGER THAN 30 DAYS. APPLY SEED AND MULCH WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK. WHEN SEEDING IS NOT POSSIBLE DUE TO SEASONAL WEATHER CONDITIONS OR OTHER FACTORS, PROVIDE TEMPORARY STRUCTURAL SOIL PROTECTION SUCH AS MULCH, WOODCHIPS, EROSION CONTROL MATTING, OR COMPOST.
7. ALL TEMPORARY SLOPES IN EXCESS OF 3 (HORIZONTAL) TO 1 (VERTICAL) SHALL BE STABILIZED WITH EROSION CONTROL MATTING OR APPROVED EQUIVALENT.
8. NO RUNOFF SHALL BE ALLOWED TO ENTER ANY STORMWATER SYSTEM OR EXIT THE SITE PRIOR TO TREATMENT FOR SEDIMENT REMOVAL.
9. THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS. ALL TRASH SHALL BE CLEANED ON A DAILY BASIS AND THE SITE SHALL BE LEFT IN A NEAT CONDITION AT THE END OF EACH WORK DAY.
10. TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS AND ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION, CONTROL, AND RESPONSE.
11. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER AND MAINTAIN ADEQUATE MOISTURE LEVELS.
12. SWEEP ADJACENT ROADWAYS IF MUD OR SOIL IS TRACKED ON TO THEM, OR AS DIRECTED BY THE ENGINEER. SHOULD THE CONSTRUCTION ENTRANCE FAIL TO PREVENT THE TRACKING OF SOILS OR SEDIMENT OFF OF THE PROJECT SITE, A WASHING RACK SHALL BE INSTALLED ALONG WITH APPROPRIATE MEASURES TO COLLECT RESULTING WASTEWATER.
13. DRAINAGE STRUCTURE FILTER INSERTS SHALL BE INSTALLED AND CLEANED/CHANGED PER THE MANUFACTURER'S RECOMMENDATIONS. UNITS SHALL BE INSTALLED COMPLETELY AROUND INLETS OF EXISTING AND PROPOSED DRAINAGE STRUCTURES SUCH THAT NO RUNOFF IS ALLOWED TO ENTER DRAINAGE SYSTEMS WITHOUT FILTERING THROUGH THE DEVICE.

SUGGESTED CONSTRUCTION SEQUENCE:

1. CONDUCT A PRE-CONSTRUCTION MEETING WITH THE OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY.
2. INSTALL CONSTRUCTION ENTRANCE(S) AND PLACE FILTER INSERTS IN EXISTING CATCH BASINS.
3. INSTALL PERIMETER E&S CONTROLS AND REQUEST PRE-CONSTRUCTION INSPECTION FROM THE ENGINEER.
4. FOLLOWING THE ENGINEER'S APPROVAL OF INSTALLED E&S CONTROLS, COMMENCE CONSTRUCTION OPERATIONS.
5. AT THE CONCLUSION OF CONSTRUCTION, COMPLETE THE INSTALLATION OF POST-CONSTRUCTION SITE STABILIZATION MEASURES AS SHOWN ON THE DRAWINGS.

NOTE: THE CONTRACTOR MAY MODIFY THE SUGGESTED CONSTRUCTION SEQUENCE INDICATED ABOVE, PROVIDED A REVISED SEQUENCE IS SUBMITTED FOR REVIEW AND APPROVED BY THE OWNER AND ENGINEER.

SITE PREPARATION NOTES:

1. CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" (1-800-922-4455) AND VERIFY UTILITY MARK-OUT WITH THE OWNER PRIOR TO THE INITIATION OF ANY SITE DISTURBANCE.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE LOCATION AND NATURE OF ALL SUBSURFACE UTILITIES AT THE PROJECT WHICH MAY BE AFFECTED BY THE WORK. COORDINATE WITH RESPECTIVE UTILITY OWNERS AND PERFORM VERIFICATION OF TYPE, LOCATION AND INVERTS AS REQUIRED.
3. NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
4. THE LOCATIONS OF EXISTING SITE FEATURES AS SHOWN HAVE BEEN OBTAINED FROM MAPS, SURVEYS, FIELD INSPECTIONS, AND OTHER AVAILABLE INFORMATION. THEY MUST BE CONSIDERED APPROXIMATE BOTH TO LOCATION, SIZE, AND AS-BUILT CONDITION AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD CONDITIONS.
5. IMPLEMENTING WORKER SAFETY AND/OR HEALTH PROTOCOLS THAT ADDRESS COMPLIANCE WITH RULES, LAWS, AND REGULATIONS PERTAINING TO CONSTRUCTION SAFETY AND/OR THE POTENTIAL AND/OR ACTUAL RISK OF EXPOSURE TO SITE-SPECIFIC PHYSICAL OR CHEMICAL HAZARDS IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL CONSTRUCTION FENCING AND WARNING SIGNS SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION. INSTALL CONSTRUCTION FENCING AT THE LIMIT OF WORK.
7. PRIOR TO THE TERMINATION, ABANDONMENT, OR REMOVAL OF ANY UTILITY, VERIFY THAT APPLICABLE NOTIFICATIONS HAVE BEEN MADE TO THE UTILITY OWNER/OPERATOR AND THAT THE UTILITY HAS BEEN PROPERLY TERMINATED, CAPPED, OR PLUGGED AS REQUIRED.
8. PROTECT ALL IMPROVEMENTS NOT INCLUDED IN THE SCOPE OF SITE DEMOLITION. ANY IMPROVEMENT WHICH IS DAMAGED SHALL BE REPAIRED OR REPLACED IN-KIND TO THE OWNER'S SATISFACTION.
9. UNLESS OTHERWISE INDICATED, ALL DISTURBED AREAS SHALL BE RESTORED WITH SIX (6) INCHES OF LOAM, SEEDED, FERTILIZED, AND MULCHED. PROVIDE ADDITIONAL EROSION CONTROLS AS REQUIRED.

TEMPORARY E&S MEASURES MAINTENANCE SCHEDULE

E&S MEASURE	MAINTENANCE MEASURES	SCHEDULE
FILTER INSERTS IN DRAINAGE SYSTEM	CLEAN CATCH BASIN GRATE, REMOVE SEDIMENT/DEBRIS FROM FILTER INSERTS	WEEKLY & WITHIN 24 HOURS AFTER STORM GENERATING A DISCHARGE
HAY BALES/ SILT FENCE BARRIER	REPAIR/REPLACE WHEN FAILURE OBSERVED, REMOVE SILT WHEN ACCUMULATION REACHES APPROX. HALF HEIGHT OF BARRIER	WEEKLY & WITHIN 24 HOURS AFTER STORM GENERATING A DISCHARGE
TARP TEMPORARY STOCKPILES	ENSURE TARP IS SECURED OVER STOCKPILE AT THE END OF EACH DAY	DAILY
CONSTRUCTION ENTRANCE	SWEEP PAVED ROADWAY ADJACENT TO SITE ENTRANCE AS NECESSARY, REFRESH STONE AS NECESSARY, REMOVE SILTED GRAVEL	WEEKLY
MOISTEN EXPOSED SOILS	PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER ON UNPAVED TRAVELWAYS AND KEEP TRAVELWAYS DAMP	DAILY

LAYOUT & MATERIALS NOTES:

1. NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
2. THE DIMENSIONS SHOWN ON THE PLANS, INCLUDING THE INTENDED DIMENSIONS OF THE WORK, MAY VARY FROM ACTUAL EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASUREMENTS TO VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AS WELL AS OTHER DIMENSIONS HE MAY DEEM APPROPRIATE TO FACILITATE THE COMPLETION OF THE WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
3. THE LAYOUT & MATERIALS PLAN IS INTENDED TO DEPICT THE LOCATION, LAYOUT, AND MATERIALS OF CONSTRUCTION AND IS INTENDED TO BE USED IN CONJUNCTION WITH THE DETAILS AND APPLICABLE SPECIFICATION SECTIONS.
4. ENGAGE A CONNECTICUT-LICENSED LAND SURVEYOR TO PERFORM LAND-SURVEYING SERVICES REQUIRED, INCLUDING, BUT NOT LIMITED TO VERIFICATION AND LAYOUT OF PROPOSED IMPROVEMENTS, DIMENSIONS, AND ELEVATIONS. REPORT DISCREPANCIES TO THE ENGINEER.
5. UNLESS OTHERWISE INDICATED, ALL DISTURBED AREAS SHALL BE RESTORED WITH SIX (6) INCHES OF LOAM, SEEDED, FERTILIZED, AND MULCHED. PROVIDE ADDITIONAL EROSION CONTROLS AS REQUIRED. BLEND RESTORED AREAS INTO ADJACENT UNDISTURBED AREAS.
6. ALL CURBING IS CONCRETE UNLESS OTHERWISE INDICATED. WHERE CURBING IS CALLED-FOR ADJACENT TO SIDEWALKS, IT SHALL BE MONOLITHIC CONCRETE CURB AND SIDEWALK PER APPLICABLE DETAILS.
7. THE CROSS-SLOPE OF ANY SIDEWALK, WALKWAY, OR OTHER PEDESTRIAN SURFACE SHALL NOT BE STEEPER THAN 1:48 (2%).
8. ACCESSIBLE ROUTES SHALL COMPLY WITH CONNECTICUT BUILDING CODE. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF A WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48 (2%).
9. RAMPS SHALL COMPLY WITH CT BUILDING CODE, REF. IBC SECTION 1010 AND ICC/ANSI A117.1 CHAPTER 4, SECTION 405.
10. CONSTRUCTION JOINTS: REINFORCEMENT SHALL NOT CONTINUE THROUGH CONSTRUCTION JOINTS.
11. PRIOR TO INITIATION OF CONCRETE FLATWORK, SUBMIT PROPOSED CONSTRUCTION JOINT PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. COORDINATE SUCH PLAN WITH THE JOINT PATTERNS DEPICTED ON THE DRAWINGS.
12. UNLESS OTHERWISE SPECIFIED, MISCELLANEOUS CONCRETE PADS SHALL BE CONSTRUCTED PER SIDEWALK DETAIL.
13. ALL NON-ACCESSIBLE PARKING SPACES ARE 9' X 18'. VERIFY OVERALL LAYOUT DIMENSIONS BASED ON THESE DIMENSIONS AND THE NUMBER OF SPACES INDICATED. FIELD-ADJUST OVERALL LAYOUT DIMENSION IN CONCERT WITH THE ENGINEER IF REQUIRED.
14. DIMENSIONS INDICATED ARE TO FACE OF CURB, PAVEMENT EDGE, EDGE OR CENTERLINE OF IMPROVEMENT, OR AS OTHERWISE NOTED.
15. PROVIDE FOR THE LAYOUT AND STAKING/MARKING OF THE PROPOSED LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING FURNISHINGS. OBTAIN ENGINEER'S APPROVAL OF THE LAYOUT PRIOR TO PROCEEDING WITH THE WORK.
16. UNLESS OTHERWISE INDICATED, LINES ARE PARALLEL OR PERPENDICULAR TO LINE FROM WHICH THEY ARE MEASURED.

GRADING & DRAINAGE NOTES:

1. UNLESS OTHERWISE INDICATED, ALL DISTURBED AREAS SHALL BE RESTORED WITH SIX (6) INCHES OF LOAM, SEEDED, FERTILIZED, AND MULCHED. PROVIDE ADDITIONAL EROSION CONTROLS AS REQUIRED. BLEND RESTORED AREAS INTO ADJACENT UNDISTURBED AREAS.
2. PROPOSED GRADES INDICATE DESIGN INTENT. VERIFY ELEVATIONS AND MAKE ADJUSTMENTS TO MEET FIELD CONDITIONS. DO NOT PROCEED WITH ANY ADJUSTMENT OR FIELD MODIFICATION UNTIL APPROVED BY THE ENGINEER.
3. VERIFY ALL GRADES AND SLOPES PRIOR TO CONCRETE PLACEMENT. REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
4. COMPLY WITH CONNECTICUT BUILDING CODE FOR ALL SITE CONSTRUCTION, INCLUDING HANDICAPPED ACCESSIBILITY.
5. THE CROSS-SLOPE OF ANY SIDEWALK, WALKWAY, OR OTHER PEDESTRIAN SURFACE SHALL NOT BE STEEPER THAN 1:48 (2%).
6. ACCESSIBLE ROUTES SHALL COMPLY WITH CONNECTICUT BUILDING CODE. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF A WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48 (2%). GRADING CONTOURS AND SPOT GRADES INDICATE DESIGN INTENT. CONFIRM THE GRADE AND SLOPE OF NEW WORK BASED ON ACTUAL FIELD CONDITIONS BEFORE PROCEEDING WITH INSTALLATION. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
7. RAMPS SHALL COMPLY WITH CT BUILDING CODE, REF. IBC SECTION 1010 AND ICC/ANSI A117.1 CHAPTER 4, SECTION 405 AND 406. GRADING CONTOURS AND SPOT GRADES INDICATE DESIGN INTENT. CONFIRM THE GRADE AND SLOPE OF NEW WORK BASED ON ACTUAL FIELD CONDITIONS BEFORE PROCEEDING WITH INSTALLATION. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
8. DETECTABLE WARNINGS SHALL BE A MINIMUM OF 24-INCHES IN DEPTH. AT CURB RAMPS, DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH OF THE RAMP AND BE INSTALLED 6-INCHES FROM THE CURB LINE AT THE RAMP BASE.
9. GRADE TRANSITION BETWEEN TOPOGRAPHIC LINES AND SPOT GRADES SHALL BE UNIFORM UNLESS OTHERWISE INDICATED.
10. UNLESS OTHERWISE INDICATED, BLEND TRANSITIONS IN ELEVATION BETWEEN NEW WORK AND AREAS TO REMAIN AT A MAXIMUM SLOPE OF 1V:2H AND RESTORE WITH SIX (6) INCHES OF LOAM AND SEED. PROVIDE ADDITIONAL EROSION CONTROLS AS REQUIRED. COORDINATE WITH ENGINEER IF DIMENSIONAL CONSTRAINTS REQUIRE STEEPER SLOPES..
11. UPON REACHING PROPOSED SUBGRADE ELEVATIONS WITHIN THE FIELD, ENGINEER WILL REVIEW SUBGRADE PRIOR TO INSTALLATION OF DRAINAGE SYSTEM. SEE SPECIFICATION SECTION 31 2310 – EARTHWORK.
12. ALL CATCH BASINS AND SHALLOW DROP INLETS SET AGAINST CURBS SHALL BE CONNDOT TYPE "C". ALL OTHERS SHALL BE CONNDOT TYPE "C-L".
13. THE TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) OF ALL UTILITY STRUCTURES THAT ARE TO REMAIN SHALL BE ADJUSTED TO MATCH FINAL GRADE IN A FLUSH CONDITION. ALL NEW UTILITY STRUCTURES SHALL BE INSTALLED WITH TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) TO FINAL GRADE IN A FLUSH CONDITION.
14. AT THE CONCLUSION OF THE WORK, CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT MATERIAL FROM ALL PORTIONS OF THE STORM DRAINAGE SYSTEM, INCLUDING NEW WORK AND EXISTING WORK THAT REMAINS OR IS INCORPORATED INTO THE NEW SYSTEM.

SITE UTILITY NOTES:

1. PERFORM EXPLORATORY EXCAVATIONS AS REQUIRED TO VERIFY THE AS-BUILT LOCATION OF EXISTING SUBSURFACE UTILITIES WHERE CROSSINGS OR OTHER POTENTIAL CONFLICTS ARE PRESENT.
2. THE TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) OF ALL UTILITY STRUCTURES THAT ARE TO REMAIN SHALL BE ADJUSTED TO MATCH FINAL GRADE IN A FLUSH CONDITION. ALL NEW UTILITY STRUCTURES SHALL BE INSTALLED WITH TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) TO FINAL GRADE IN A FLUSH CONDITION.
3. ALL LIGHTING ELECTRICAL SUPPLIES SHALL BE INSTALLED IN MINIMUM 1-INCH PVC CONDUIT PER APPLICABLE SPECIFICATIONS. PLASTIC MARKING TAPE SHALL BE USED ON ALL CONDUIT RUNS.
4. THE ROUTING OF LIGHTING ELECTRICAL SUPPLIES SHOWN IS CONCEPTUAL. CONTRACTOR SHALL DETERMINE THE SPECIFIC ROUTING OF ALL LIGHTING SYSTEMS BASED ON THE ACTUAL LOCATION OF TIE-IN(S) TO EXISTING LIGHTING FEEDS AND AS REQUIRED TO AVOID CONFLICTS WITH OTHER CONSTRUCTION OR SUBSURFACE FACILITIES. PRIOR TO INSTALLATION, PROVIDE SHOP DRAWING SHOWING THE ROUTING OF ALL CONDUIT, LOCATIONS OF HANDHOLES, AND DETAILS OF TIE-INS TO EXISTING SYSTEM.
5. CONDUIT: RIGID PVC ELECTRICAL CONDUIT, NEMA TC 2 AND UL -651; FITTINGS AND CONDUIT BODIES: PVC TO MATCH CONDUIT, NEMA TC-3. PRIMER/SOLVENT CEMENT: ASTM F656/ASTM D2564; PULL ROPE: 3/8-INCH DOUBLE BRAIDED, LOW STRETCH POLYESTER COMPOSITE ROPE.
6. TRACER WIRE REQUIRED FOR TELECOMMUNICATIONS AND ELECTRIC ONLY. PROVIDE APPROPRIATE WIRE ACCESS POINTS.
7. ALL UNDERGROUND TELECOMMUNICATIONS AND ELECTRIC CONDUITS SHALL BE ENCASED IN CONCRETE EXCEPT BRANCH DISTRIBUTION FOR LIGHTING. WORK CONCRETE TO REMOVE ALL TRAPPED AIR AND INSURE EACH CONDUIT IS COMPLETELY SURROUNDED BY A MINIMUM 2" OF CONCRETE. ALLOW CONCRETE TO CURE FOR AT LEAST ONE HOUR BEFORE BACKFILLING.
8. FOR TELECOMMUNICATIONS AND ELECTRIC, WARNING TAPE SHALL BE INSTALLED 12-INCHES BELOW GRADE.
9. SEAL ALL CONDUIT ENDS WITH BLANK DUCT PLUGS. SECURE PULL ROPE TO DUCT PLUG.
10. ALL WORK ASSOCIATED WITH FIRE PROTECTION AND DOMESTIC WATER SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE LOCAL WATER UTILITY.
11. ALL WORK ASSOCIATED WITH ELECTRICAL SERVICE SHALL CONFORM TO THE STANDARDS OF EVERSOURCE. IF THERE ARE ANY CONFLICTS BETWEEN THE REQUIREMENTS INDICATED HEREON AND EVERSOURCE STANDARDS, EVERSOURCE STANDARDS SHALL PREVAIL.
12. ALL WORK ASSOCIATED WITH TELECOMMUNICATIONS SHALL CONFORM TO THE STANDARDS OF THE LOCAL PROVIDER.
13. INSTALL CONDUIT, PULL ROPE, CAPS, WARNING TAPE, AND TRACER WIRE PER APPLICABLE SPECIFICATIONS, STANDARDS, AND CODES.
14. ALTHOUGH NOT SHOWN ON THE DRAWINGS, PROVIDE FOR THE INSTALLATION OF ALL JOINTS, COUPLINGS, RESTRAINTS, BENDS, ANGLES, AND OTHER APPURTENANCES TO ACHIEVE A COMPLETE, FUNCTIONAL WATER SUPPLY SYSTEM.

PLANTING NOTES:

1. THE CONTRACTOR SHALL CLEARLY MARK LIMITS OF CLEARING AND LIMITS OF TREE REMOVAL, SELECTIVE PRUNING AND THINNING FOR REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO ANY CLEARING OPERATIONS. ALL TREE WORK SHALL BE EXECUTED BY A LICENSED ARBORIST.
2. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT EXISTING VEGETATION THAT IS DESIGNATED, "TO REMAIN".
3. ALL TREES TO BE SAVED SHALL BE PROTECTED. SEE SPECIFICATION FOR TREE PROTECTION REQUIREMENTS.
4. EXISTING ON SITE TOPSOIL MAY BE REUSED UPON APPROVAL BY THE LANDSCAPE ARCHITECT. EXISTING TOPSOIL SHALL BE TESTED AND AMENDED FOR NUTRIENTS, ORGANIC MATTER, PH, AND SOIL TEXTURE. – SEE SPECIFICATIONS.
5. REMOVE ALL ROCKS AND DEBRIS FROM SOIL SURFACE AND GRADE TO AN EVEN SURFACE. – SEE SPECIFICATIONS.
6. COMPLETE QUANTITIES OF PLANTS FOR EACH AREA TO BE AVAILABLE ON SITE AT THE TIME OF PLANTING FOR FIELD LAYOUT BY OWNER'S REPRESENTATIVE. NO PARTIAL LAYOUT AND PLANTING OF AREAS WILL BE ACCEPTABLE.
7. ALL PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. – SEE SPECIFICATION FOR DETAILED REQUIREMENTS.
8. ANY PROPOSED SUBSTITUTIONS OF PLANT MATERIAL SHALL BE MADE WITH MATERIAL EQUIVALENT TO THE DESIRED MATERIAL IN OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE. NO SUBSTITUTION OF PLANT SPECIES OR VARIETIES WILL BE ACCEPTABLE WITHOUT LANDSCAPE ARCHITECT'S WRITTEN APPROVAL.
9. OWNER'S REPRESENTATIVE TO APPROVE PLANT MATERIAL PRIOR TO DELIVERY TO SITE AND AGAIN AT THE PROJECT SITE PRIOR TO PLANTING.
10. VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND REPORT ANY CONFLICTS TO THE OWNER OR HIS REPRESENTATIVE.
11. NO PLANTING SHALL OCCUR PRIOR TO ACCEPTANCE OF FINAL GRADING.
12. INSTALL PLANTS WITH ROOT FLARES FLUSH WITH GRADE. IMMEDIATELY REPLANT PLANTS WHICH SETTLE OUT OF PLUMB OR BELOW FINISH GRADE.
13. SEE SPECIFICATIONS FOR PLANTING MAINTENANCE AND GUARANTEE REQUIREMENTS.
14. THE LANDSCAPE ARCHITECT OR ENGINEER RESERVES THE RIGHT TO ADJUST FINAL GRADES IN THE FIELD TO SAVE EXISTING VEGETATION.
15. PLANT QUANTITIES NOTED IN THE PLANT SCHEDULE ARE APPROXIMATE AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING AND INSTALLATION OF ALL PLANT MATERIALS NOTED ON THE PLANTING PLAN.
16. CAUTION SHALL BE USED NOT TO EXTEND MULCH LAYER ABOVE SOIL LEVEL AT TRUNKS/STEMS OF INSTALLED PLANT MATERIAL.
17. PROVIDE FOUR (4) FOOT DIAMETER MULCH CIRCLE AROUND ALL INDIVIDUAL TREE PLANTINGS AND CONTINUOUS MULCH BED AROUND SHRUB, PERENNIAL AND GROUNDCOVER PLANTINGS, UNLESS OTHERWISE NOTED. DO NOT MOUND SOIL OR MULCH AT TRUNKS.
18. ALL PLANTING SHALL BE DONE UNDER FULL SUPERVISION OF CERTIFIED ARBORIST, NURSERYMAN, OR LICENSED LANDSCAPE ARCHITECT.
19. LOOSE OR CRACKED ROOTBALLS SHALL BE REJECTED.

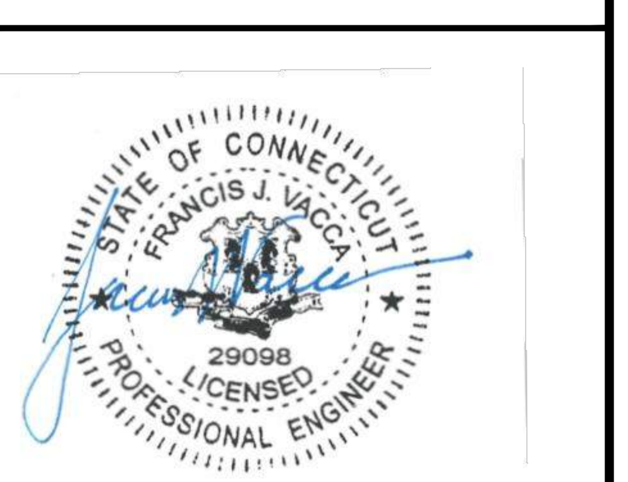
TOWN OF BLOOMFIELD STANDARD NOTES AND GENERAL NOTES:

1. ALL PROPERTY AND EASEMENT CORNERS SHALL BE PINNED OR STAKED WHEN THE BUILDING PERMIT IS SUBMITTED AND PRIOR TO THE CLEARING OF ANY EXISTING VEGETATION.
2. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED BEFORE ANY DISTURBANCE OF THE GROUND, INCLUDING STUMP REMOVAL. DISTURBED AREAS AND STOCKPILES SHALL TO BE STABILIZED WITH TEMPORARY SEEDING AND/OR MULCH WITHIN 30 DAYS.
3. ANY ADDITIONAL SOIL EROSION OR SEDIMENT CONTROL FAILURES OR SHORTCOMINGS IDENTIFIED BY THE ENGINEERING DIVISION, ZONING ENFORCEMENT OFFICER, WETLANDS AGENT, OR OTHER TOWN OFFICIALS, DURING ANY CONSTRUCTION PROCESS, SHALL BE PROMPTLY REPAIRED AND CORRECTIVE MEASURES SHALL BE PROMPTLY IMPLEMENTED BY THE DEVELOPER AND/OR CONTRACTOR.
4. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER RAINSTORMS OF 0.5" OR MORE, IN 24 HOURS, AND REPAIRED OR REPLACED AS NEEDED. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN FUNCTIONAL CONDITION FOR THE DURATION OF THE PROJECT BY THE DEVELOPER/CONTRACTOR UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
5. NO DISTURBANCE OF INLAND WETLANDS, WATERCOURSES, OR THE UPLAND REVIEW AREAS, 100 FEET FROM A WETLAND OR 200 FEET FROM A WATERCOURSE, INCLUDING THE REMOVAL OF VEGETATION IN OR NEAR WETLANDS OR WATERCOURSES, SHALL BE DONE WITHOUT A PERMIT FROM THE INLAND WETLANDS AND WATERCOURSES COMMISSION.
6. THE BUILDER/DEVELOPER SHALL FOLLOW THE APPROVED PLOT PLAN FOR THE DEVELOPMENT OF THE PROPERTY UNLESS FIELD CONDITIONS DICTATE THAT A DEVIATION IS REQUIRED. ANY SUCH FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF, AND ARE SUBJECT TO THE APPROVAL OF, THE ENGINEERING DIVISION BEFORE THEY ARE MADE.
7. PRIOR TO STARTING THE FRAMING, OR OTHER CONSTRUCTION ON THE FOUNDATION, THE BUILDER/DEVELOPER SHALL SUBMIT A FOUNDATION AS-BUILT SHOWING THE LOCATION OF THE FOUNDATION WITH RESPECT TO THE PROPERTY LINES. THE CONSTRUCTION OF ALL STRUCTURES SHALL BE COORDINATED WITH THE BUILDING DIVISION.
8. ALL AREAS, EXCEPT DRIVEWAYS AND SIDEWALKS, DISTURBED DURING CONSTRUCTION OF THE HOUSE SHALL BE RESTORED WITH A MINIMUM OF 4 INCHES OF TOPSOIL AND PERMANENT LAWN SEEDING AS SOON AS POSSIBLE AFTER THE FOUNDATION IS COMPLETED.
9. A MINIMUM OF TWO NATIVE DECIDUOUS STREET TREES, 2-2 ½ INCHES IN CALIPER, SHALL BE PLANTED BETWEEN THE STREET LINE AND THE BUILDING LINE. EXISTING HEALTHY TREES MAY BE SUBSTITUTED FOR NEW STREET TREES.
10. ALL UNSUITABLE MATERIALS SHALL TO BE REMOVED FROM THE SITE. NO ON-SITE BURIAL OF TREE TRUNKS, STUMPS, BRUSH OR OTHER DEBRIS IS PERMITTED.
11. FOOTING DRAINS, ROOF DRAINS OR OTHER PRIVATE STORM DRAINAGE CONNECTIONS TO A TOWN OF BLOOMFIELD STORM DRAINAGE SYSTEM REQUIRE A TOWN OF BLOOMFIELD STORM DRAINAGE CONNECTION AND DISCHARGE PERMIT AND AGREEMENT FILLED OUT BY THE PROPERTY OWNER. THIS FORM IS AVAILABLE AT THE ENGINEERING DIVISION, AND WEB PAGE, AND SHALL BE NOTARIZED AND FILED ON THE BLOOMFIELD LAND RECORDS.
12. THE DEVELOPER, PROPERTY OWNER AND/OR BUILDER SHALL CONTACT THE ENGINEERING DIVISION AT 860-769-3524, TWO WEEKDAYS PRIOR TO STARTING WORK ON THE SITE IN ORDER TO DISCUSS ANY SPECIAL CONDITIONS AND/OR REQUIRED INSPECTIONS.
13. TOWN OF BLOOMFIELD R.O.W. PERMITS ARE REQUIRED FOR ALL WORK WITHIN THE TOWN RIGHTS-OF-WAY. A CONNECTICUT DEPARTMENT OF TRANSPORTATION PERMIT IS REQUIRED FOR DRIVEWAY CURB CUTS AND OTHER WORK WITHIN THE RIGHTS-OF-WAY OF STATE HIGHWAYS.
14. ALL NEW SIDEWALKS SHALL BE 5" OF CONCRETE OVER 8" OF COMPACTED BASE MATERIAL. DRIVEWAY CROSSINGS, SIDEWALK RAMPS OR CONCRETE DRIVEWAY APRONS SHALL BE 8" REINFORCED CONCRETE OVER 8" OF COMPACTED BASE MATERIAL IN ACCORDANCE WITH THE TOWN STANDARD DETAIL. ANY SIDEWALKS BROKEN OR DAMAGED DURING CONSTRUCTION, AND ACROSS ALL NEW DRIVEWAYS, SHALL BE REPLACED.
15. THE BUILDER/DEVELOPER SHALL BE RESPONSIBLE FOR THE CLEANING OF NEARBY STREETS AS ORDERED BY THE TOWN OR STATE, OF ANY DEBRIS FROM HIS CONSTRUCTION ACTIVITIES.
16. THE BUILDER/DEVELOPER SHALL BE RESPONSIBLE FOR STABILIZING ALL EXPOSED SOIL WITHIN 30 DAYS WITH TEMPORARY SEEDING, DURING THE FALL AND SPRING SEEDING DATES, AND WITH HAY, STRAW OR BARK FIBER MULCH OUTSIDE OF THESE SEEDING DATES.
17. FOOTING DRAINS SHALL BE CONNECTED TO AN APPROPRIATE STORM DRAINAGE STRUCTURE OR DISCHARGED TO GRADE, AWAY FROM THE ROAD, AND SHALL NOT BE DIRECTED TOWARD THE NEIGHBORING PROPERTY.
18. THE PROPOSED REGULATED ACTIVITIES ON THIS PLAN ARE IN ACCORDANCE WITH THE WETLANDS PERMIT ISSUED BY THE BLOOMFIELD INLAND WETLANDS AND WATERCOURSES COMMISSION ON ____________. ANY OTHER REGULATED ACTIVITIES IN WETLANDS, WATERCOURSES OR THE UPLAND REVIEW AREAS, 100 FEET FROM WETLANDS AND 200 FEET FROM WATERCOURSES, ARE NOT PERMITTED WITHOUT A SEPARATE WETLANDS PERMIT.
19. AN AS-BUILT SITE IMPROVEMENT AND GRADING PLAN, PREPARED BY A LICENSED LAND SURVEYOR, SHALL BE SUBMITTED AFTER ALL SITE WORK HAS BEEN COMPLETED AND ANY DEVIATIONS OR OMISSIONS NOTED AT LEAST TWO WEEKS PRIOR TO THE CERTIFICATE OF OCCUPANCY/COMPLETION (C.O.) ANY REVISIONS MUST BE MADE AND RESUBMITTED PRIOR TO THE C.O.
20. ALL PROPERTY AND EASEMENT CORNERS SHALL BE PINNED BY A LICENSED LAND SURVEYOR AND FLAGGED FOR IDENTIFICATION; AND ANY R.O.W. MONUMENTS MISSING OR DAMAGED SHALL BE REPLACED AND CERTIFIED BY A LICENSED LAND SURVEYOR PRIOR TO THE C.O.
21. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED AND ALL LANDSCAPING, SIDEWALKS, DRIVEWAYS, ETC. SHALL BE COMPLETED PRIOR TO THE C.O.
22. THE BUILDER/DEVELOPER SHALL BE RESPONSIBLE FOR REMOVING ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES, DEBRIS AND EXCESS MATERIAL FROM THE PROPERTY PRIOR TO THE C.O.

LEGEND

Symbol	Description
	– PROPERTY LINE
	– LIMIT OF WORK
	– PERIMETER CONTROL STRAW WATTLE
	– HAY BALES
	– CONSTRUCTION ENTRANCE
	– CATCH BASIN FILTER INSERT
	– AREA DRAIN FILTER INSERT
	– CONCRETE WASHOUT AREA
	– TEMPORARY EROSION CONTROL BLANKET
	– SEDIMENT TRAP OVERFLOW
	– TEMPORARY DIVERSION SWALE
	– DEMOLITION SAWCUT
	– CHAIN LINK CONSTRUCTION FENCE
	– LIMIT OF CLEARING
R&D	– REMOVE AND DISPOSE
	– PROTECT SITE FEATURE TO REMAIN
	– R&D SITE FEATURE
	– R&D PAVEMENT
	– R&D LINEAR SITE FEATURE
	– PROPERTY SETBACK
	– PROPOSED CURBING
BIT	– BITUMINOUS CONCRETE
CONC	– CONCRETE
BCLC	– BITUMINOUS CONCRETE LIP CURB
MCC	– MONOLITHIC CONCRETE CURB
CC	– CONCRETE CURB
VGC	– VERTICAL GRANITE CURB
EOP	– EDGE OF PAVEMENT
R	– CURVE RADIUS
L	– CURB LENGTH
PRC	– POINT OF REVERSE CURVATURE
PC	– POINT OF CURVATURE
PT	– POINT OF TANGENCY
TC	– TOP OF CURB ELEVATION
BC	– BOTTOM OF CURB ELEVATION
TF	– TOP OF FRAME ELEVATION
YD	– YARD DRAIN
CB	– CATCH BASIN
100	– TOPOGRAPHY: MAJOR INTERVAL
99	– TOPOGRAPHY: MINOR INTERVAL
x100.00	– TOPOGRAPHY: SPOT ELEVATION
D D	– STORM DRAINAGE PIPE

Symbol	Description
D	– DRAINAGE MANHOLE (DMH)
	– TYPE "C" CATCH BASIN (CB)
	– TYPE "C-L" CATCH BASIN (CBL)
	– TYPE "C" DOUBLE GRATE – TYPE I (DB1)
	– TYPE "C" DOUBLE GRATE – TYPE II (DB2)
	– TYPE "C-L" DOUBLE GRATE – TYPE I (DBL1)
	– TYPE "C-L" DOUBLE GRATE – TYPE II (DBL2)
D	– CONVERT CB TO DMH
	– YARD DRAIN (YD)
	– CULVERT END (CE)
	– UNDERDRAIN
	– COLLECTOR DRAIN AND STONE
	– ROOF LEADER
	– OUTLET PROTECTION
	– DRAINAGE SLOPE DIRECTION
	– PROPOSED SIGN
	– PAVEMENT MARKING
1	– SIGN DESIGNATION (SEE TABLE)
10	– PROPOSED PARKING SPACES
	– PAINTED CHEVRON
	– ACCESSIBLE PARKING SPACE
FP FP	– FIRE PROTECTION PIPE
W W	– DOMESTIC WATER PIPE
G G	– NATURAL GAS PIPE
T T	– TELECOM CONDUIT
UGE UGE	– UNDERGROUND ELECTRIC CONDUIT
S S	– SANITARY SEWER PIPE
	– FIRE HYDRANT
E	– ELECTRIC HANDHOLE
	– LIGHT POLE
	– NATURAL GAS GATE
S	– SANITARY MANHOLE (SMH)
T	– TELECOM MANHOLE
	– WATER GATE
TP-X	– TEST PIT LOCATION
W	– WATER SUPPLY WELL



FRANCIS J. VACCA, PE NO. 29098

FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE

IN

BLOOMFIELD
CONNECTICUT

GENERAL NOTES & LEGEND

NOVEMBER 14, 2025

REVISIONS:

PREPARED FOR:

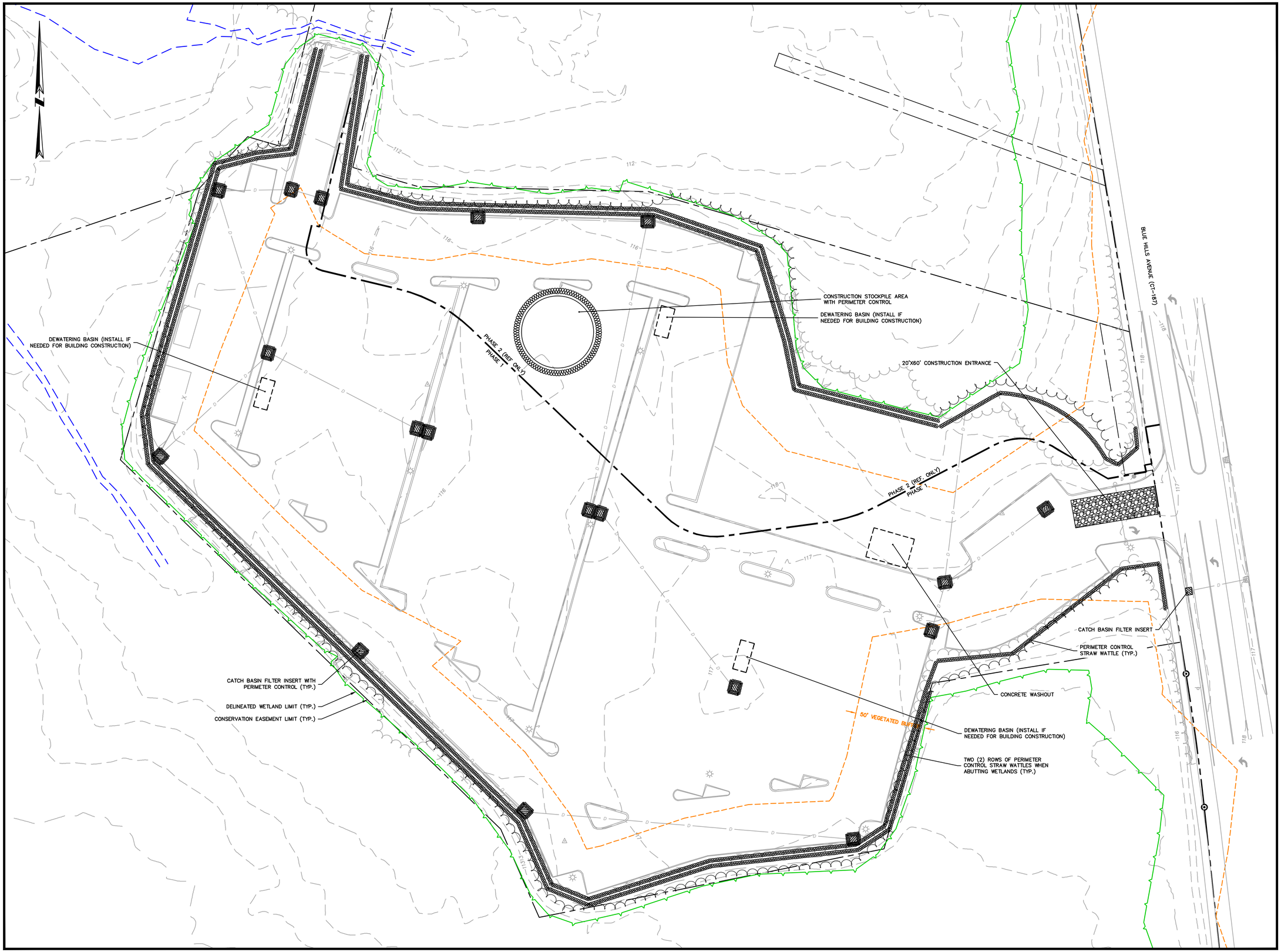
THE FIRST CATHEDRAL
1151 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

SCALE: NONE

FILE: P:\010140300\CIVIL\DRAWINGS
DWG. NO:
JOB. NO: 0101403.00

G-2.0



STATE OF CONNECTICUT
FRANCIS J. VACCA
29098
LICENSED
PROFESSIONAL ENGINEER

FRANCIS J. VACCA, PE NO. 29098

FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE

IN

BLOOMFIELD
CONNECTICUT

EROSION & SEDIMENTATION CONTROL PLAN

NOVEMBER 14, 2025

REVISIONS:

PREPARED FOR:

THE FIRST CATHEDRAL
1151 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

SCALE: 1" = 30'

0 15 30 60 FEET

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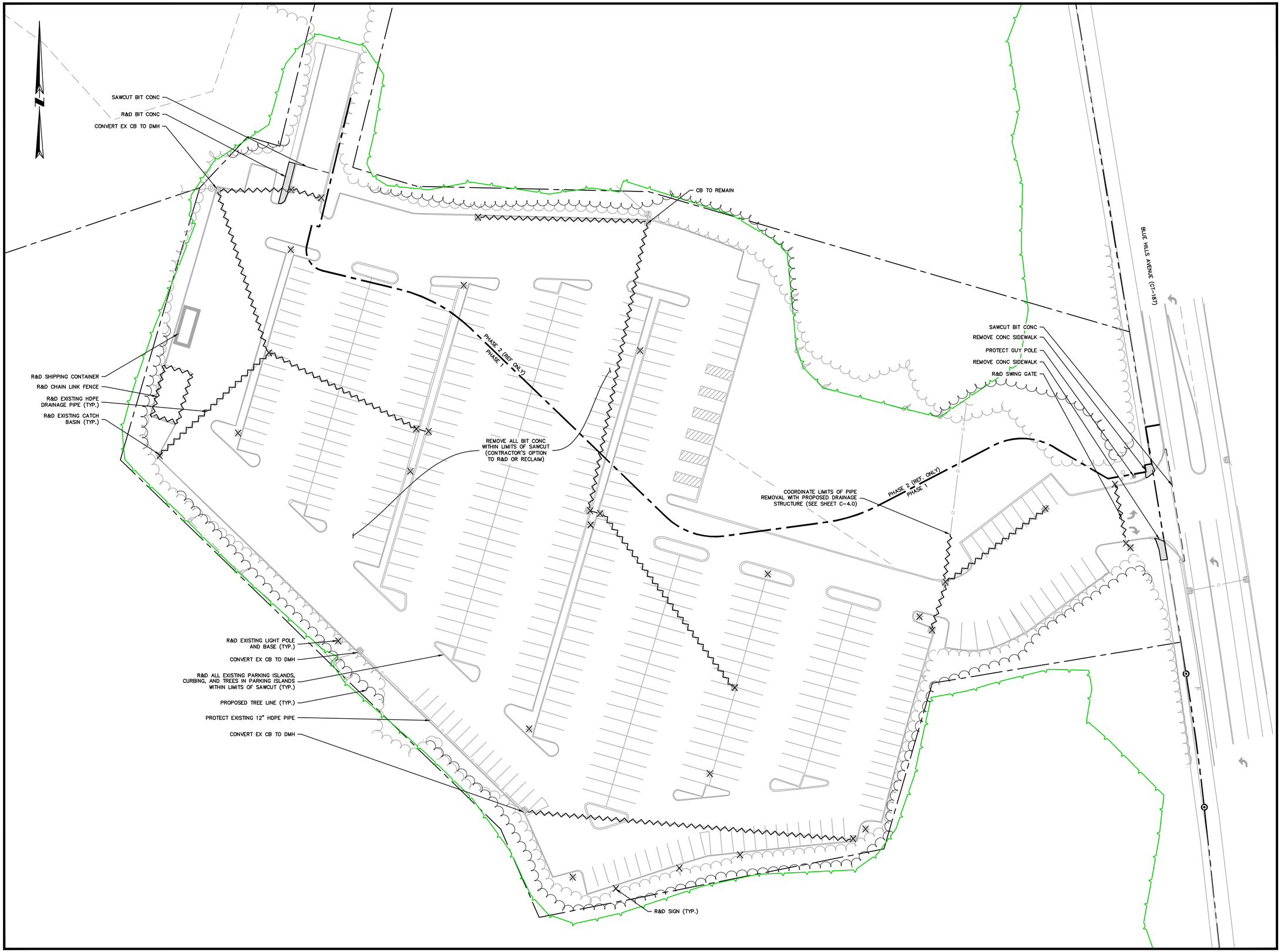
DWG. NO: C-1.0

JOB. NO: 0101403.00



STATE OF CONNECTICUT
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FRANCIS J. VACCA, PE NO. 29098

FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE

IN

BLOOMFIELD
CONNECTICUT

SITE PREPARATION PLAN

NOVEMBER 14, 2025

REVISIONS:

PREPARED FOR:

THE FIRST CATHEDRAL
1151 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

SCALE: 1" = 30'

0 15 30 60 FEET

FILE: P:\010140300\CIVIL\DRAWINGS

DWG. NO: C-2.0

JOB. NO: 0101403.00

MEET EXISTING PAVEMENT IN FLUSH CONDITION

BIT CONC PAVEMENT (TYP.)

DUMPSTER ENCLOSURE

TRANSFORMER PAD

PHASE 2 (REF. ONLY)
PHASE 1

BUILDING B
5-STORY
APARTMENT
BUILDING
50 UNITS
(78 BEDROOMS)

8' (TYP.)
8' (TYP.)
5' (TYP.)
10' (TYP.)
9' (TYP.)
20'(TYP.)
24'(TYP.)

BLUE HILLS AVENUE (CT-187)

MEET EXISTING PAVEMENT IN FLUSH CONDITION

8" WHITE CROSSWALK

4" DOUBLE YELLOW CENTERLINE (TYP.)

PHASE 2 (REF. ONLY)
PHASE 1

12" WIDE WHITE STOPBAR (TYP.)

STOP SIGN

5' STONE DUST PATH (TYP.)

CONC PAVER TERRACE

5' CONCRETE SIDEWALK (TYP.)

DETECTABLE WARNING STRIP (TYP.)

WHITE PAINTED ADA PARKING SYMBOL (TYP.)

BUILDING A
5-STORY
APARTMENT
BUILDING
51 UNITS
(88 BEDROOMS)

24'

50' VEGETATED BUFFER

4" WHITE PARKING STRIPING (TYP.)

TREE LINE (TYP.)

CONCRETE CURB (TYP.)

TRANSFORMER PAD

50' FRONT YARD

PARKING COUNT (PHASE 1 & 2):

UNITS	= 51 + 50 + 45 = 146
REQUIRED PARKING SPACES	= 228 (INCLUDES 4 STAFF)
HANDICAPPED PARKING	= 10% X 146 = 15 SPACES (INCLUDED IN TOTAL)
DAYCARE PARKING SPACES	= 22 (INCLUDES 3 VISITORS)
TOTAL PROVIDED PARKING SPACES	= 251
TOTAL PARKING SPACES PHASE 1	= 199

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FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE

IN

BLOOMFIELD
CONNECTICUT

LAYOUT & MATERIALS PLAN

NOVEMBER 14, 2025

REVISIONS:

PREPARED FOR:

THE FIRST CATHEDRAL
1151 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

SCALE: 1" = 30'

0 15 30 60 FEET

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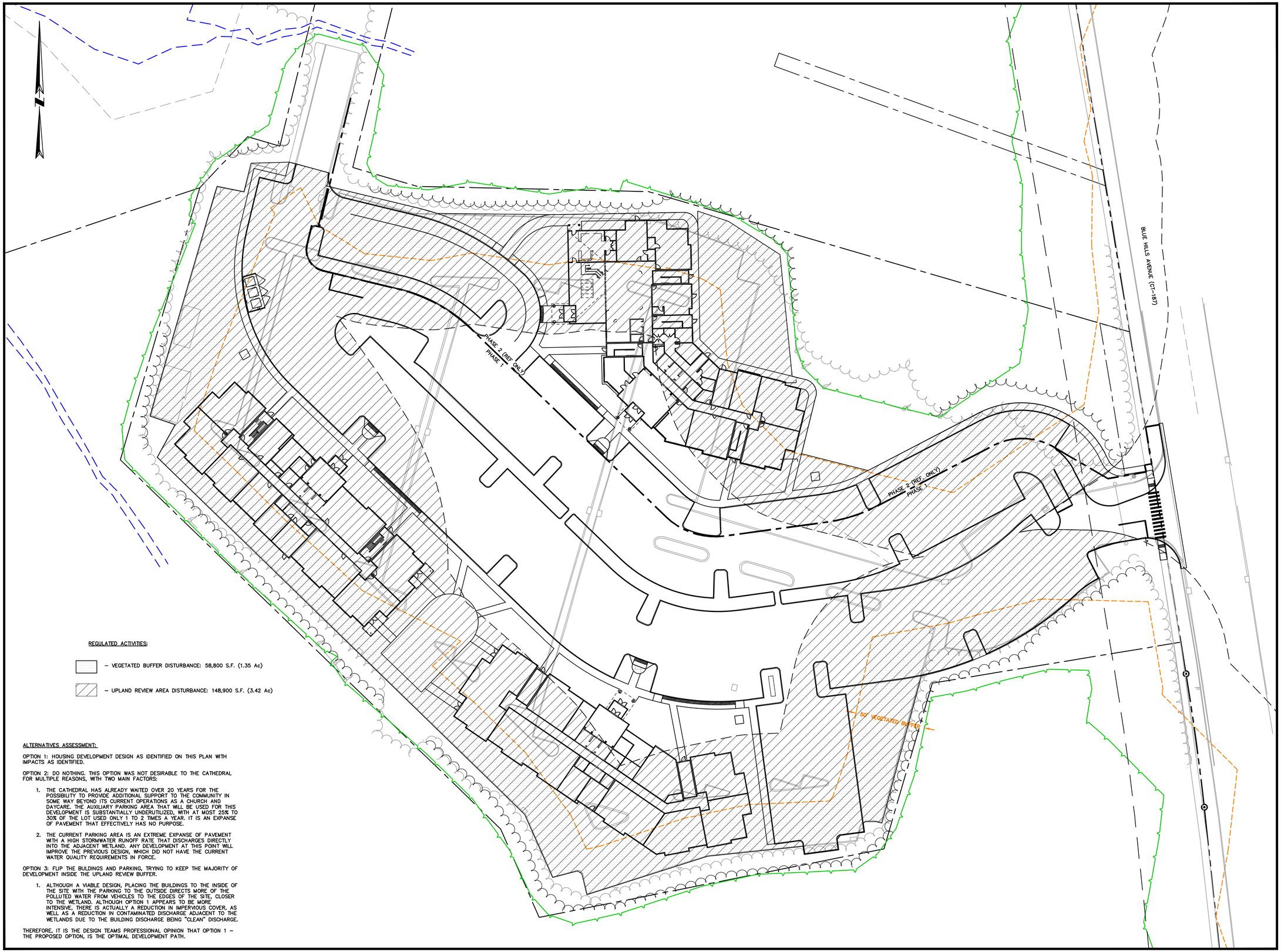
JOB. NO: 0101403.00



REGULATED ACTIVITIES:

– VEGETATED BUFFER DISTURBANCE: 58,800 S.F. (1.35 Ac)

– UPLAND REVIEW AREA DISTURBANCE: 148,900 S.F. (3.42 Ac)

ALTERNATIVES ASSESSMENT:

OPTION 1: HOUSING DEVELOPMENT DESIGN AS IDENTIFIED ON THIS PLAN WITH IMPACTS AS IDENTIFIED.

OPTION 2: DO NOTHING. THIS OPTION WAS NOT DESIRABLE TO THE CATHEDRAL FOR MULTIPLE REASONS, WITH TWO MAIN FACTORS:

1. THE CATHEDRAL HAS ALREADY WAITED OVER 20 YEARS FOR THE POSSIBILITY TO PROVIDE ADDITIONAL SUPPORT TO THE COMMUNITY IN SOME WAY BEYOND ITS CURRENT OPERATIONS AS A CHURCH AND DAYCARE. THE AUXILIARY PARKING AREA THAT WILL BE USED FOR THIS DEVELOPMENT IS SUBSTANTIALLY UNDERUTILIZED, WITH AT MOST 25% TO 30% OF THE LOT USED ONLY 1 TO 2 TIMES A YEAR. IT IS AN EXPANSE OF PAVEMENT THAT EFFECTIVELY HAS NO PURPOSE.
2. THE CURRENT PARKING AREA IS AN EXTREME EXPANSE OF PAVEMENT WITH A HIGH STORMWATER RUNOFF RATE THAT DISCHARGES DIRECTLY INTO THE ADJACENT WETLAND. ANY DEVELOPMENT AT THIS POINT WILL IMPROVE THE PREVIOUS DESIGN, WHICH DID NOT HAVE THE CURRENT WATER QUALITY REQUIREMENTS IN FORCE.

OPTION 3: FLIP THE BUILDINGS AND PARKING, TRYING TO KEEP THE MAJORITY OF DEVELOPMENT INSIDE THE UPLAND REVIEW BUFFER.

1. ALTHOUGH A VIABLE DESIGN, PLACING THE BUILDINGS TO THE INSIDE OF THE SITE WITH THE PARKING TO THE OUTSIDE DIRECTS MORE OF THE POLLUTED WATER FROM VEHICLES TO THE EDGES OF THE SITE, CLOSER TO THE WETLAND. ALTHOUGH OPTION 1 APPEARS TO BE MORE INTENSIVE, THERE IS ACTUALLY A REDUCTION IN IMPERVIOUS COVER, AS WELL AS A REDUCTION IN CONTAMINATED DISCHARGE ADJACENT TO THE WETLANDS DUE TO THE BUILDING DISCHARGE BEING "CLEAN" DISCHARGE.

THEREFORE, IT IS THE DESIGN TEAMS PROFESSIONAL OPINION THAT OPTION 1 – THE PROPOSED OPTION, IS THE OPTIMAL DEVELOPMENT PATH.

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FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE

IN

BLOOMFIELD
CONNECTICUT

REGULATED ACTIVITIES AND ALTERNATIVE PLAN

NOVEMBER 14, 2025

REVISIONS:

PREPARED FOR:

THE FIRST CATHEDRAL
1151 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

SCALE: 1" = 30'

0 15 30 60 FEET

FILE: P:\0101403\00\CIVIL\DRAWINGS

DWG. NO: C-3.1

JOB. NO: 0101403.00

CONVERT EX CB TO DMH
TF=114.0±
INV(EX-SE)=110.11±

13'-12" HDPE @ 0.69%

DMH
TF=114.05
INV(E)=110.20
INV(SE)=110.20
INV(NW)=110.20

120'-12" HDPE @ 0.50%

BIORETENTION BASIN 1
TOP=115.50
BOT=114.50

RAIN GUARDIAN TURRET
INLET=115.50
OUTLET=114.50

BIORETENTION BASIN
OUTLET STRUCTURE
TF=115.50
INV(SE)=111.42
INV(NW)=111.42

9'-12" HDPE @ 1.00%

DMH
TF=115.64
INV(NE)=111.33
INV(SE)=110.80
INV(NW)=110.80

BORING
LOCATION (TYP.)

9'-12" HDPE @ 1.00%

HDS-1
CS4 CASCADE SEPARATOR
WITH CURB INLET
TF=113.35
INV(W)=110.29

RAIN GUARDIAN TURRET
INLET=116.00
OUTLET=115.00

161'-12" HDPE @ 0.50%

HDS-2
CS4 CASCADE SEPARATOR
WITH CURB INLET
TF=116.07
INV(SE)=111.71
INV(NW)=111.61

36'-12" HDPE @ 0.50%

TYPE "C-L" CB
TF=115.40
INV(NE)=111.89

BIORETENTION BASIN 2
TOP=116.00
BOT=114.50

HDS-3
CS4 CASCADE SEPARATOR
WITH SOLID COVER
TF=116.23
INV(SE)=112.81
INV(SW)=112.75
INV(NE-EX)=112.70±

4'-12" HDPE @ 1.00%

BIORETENTION BASIN
OUTLET STRUCTURE
TF=115.50
INV(SE)=112.85 (UD RISER)
INV(NW)=112.85

RAIN GUARDIAN TURRET
INLET=116.13
OUTLET=115.13

BLUE HILLS AVENUE (CT-187)

PHASE 2 (REF. ONLY)
PHASE 1

ACCESSIBLE PARKING
AREA, 2.0% MAX SLOPE
ALL DIRECTIONS (TYP.)

8" PVC ROOF LEADER
COLLECTOR PIPE

(14) STORMTECH SC-800
CHAMBERS (POND 4P)
MIN. VOL.=1,317 CF
BOT STONE=112.50

CONVERT EX CB TO DMH
TF=116.67
INV(NE)=112.77
INV(SE-EX)=111.83±
INV(SW-EX)=111.92±

23'-8" PVC @ 1.00%

8" PVC ROOF LEADER
COLLECTOR PIPE

25'-8" PVC @ 1.00%

CONVERT EX CB TO DMH
TF=115.75
INV(NE)=112.75
INV(SE)=112.75
INV(NW-EX)=112.65±

BURIED INSPECTION
PORT (TYP.)

(14) STORMTECH SC-800
CHAMBERS (POND 5P)
MIN. VOL.=1,317 CF
INV(OUT)=113.00
BOT STONE=112.50

66'-12" HDPE @ 0.40%

YD
TF=116.25
INV(E)=113.01
INV(NW)=113.01

72'-10" HDPE @ 0.40%

DMH
TF=116.89
INV(E)=113.52
INV(W)=113.52

128'-10" HDPE @ 0.40%

RAIN GUARDIAN TURRET
INLET=116.14
OUTLET=115.14

72'-12" HDPE @ 0.40%

TYPE "C" CB
TF=116.13
INV(W)=113.14
INV(NE)=113.04

56'-12" HDPE @ 0.40%

TYPE "C-L" CB
TF=115.40
INV(W)=113.37
INV(E)=113.37

44'-12" HDPE @ 0.40%

TYPE "C" CB
TF=115.89
INV(E)=113.55

BIORETENTION BASIN 3
TOP=116.00
BOT=115.00

RAIN GUARDIAN TURRET
INLET=116.00
OUTLET=115.00

BIORETENTION BASIN
OUTLET STRUCTURE
TF=115.75
INV(N)=113.81 (UD RISER)
INV(SW)=113.81

BUILDING "B"
FFE=118.00

BUILDING "A"
FFE=118.00

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-12 B-13 B-14 B-15

TC114.63 BC114.13
TC116.52 BC116.02
TC117.29 BC116.79
TC117.75 BC117.25
TC117.86 BC117.36
TC116.84 BC116.34
TC116.61 BC116.11
TC116.96 BC116.46
TC116.81 BC116.31
TC116.75 BC116.25
TC116.25 BC115.75
TC117.56 BC117.08
TC117.63 BC117.13
TC117.42 BC116.92
TC117.37 BC116.87
TC117.51 BC117.01
TC117.19 BC116.69
TC117.60 BC117.10
TC117.21 BC116.71
TC117.33 BC116.83
TC117.67 BC117.17
TC117.90 BC117.40
TC117.32 BC116.82
TC117.02 BC116.52
TC117.13 BC116.63
TC117.04 BC116.54
TC117.61 BC117.11
TC117.51 BC117.01
TC117.81 BC117.31
TC116.52 BC116.02
TC116.75 BC116.25
TC116.80
TC117.14 BC116.64
TC117.18 BC116.68

116.86
117.35
116.87
TC117.63 BC117.13
116.55
117.26
116.77
116.98
118.00
117.75
117.10
117.00
117.94
117.60
117.58
117.39
117.74

FRANCIS J. VACCA, PE NO. 29098

FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE

IN

BLOOMFIELD
CONNECTICUT

GRADING & DRAINAGE PLAN

NOVEMBER 14, 2025

REVISIONS:

PREPARED FOR:

THE FIRST CATHEDRAL
1151 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

SCALE: 1" = 30'

0 15 30 60 FEET

FILE: P:\010140300\CIVIL\DRAWINGS

DWG. NO: C-4.0

JOB. NO: 0101403.00

BUILDING "B" PAD-MOUNTED TRANSFORMER

SECONDARY ELECTRIC SERVICE

INV=114.50

66'-6" PVC @ 1.00%

SMH
TF=116.78
INV=113.84

97'-6" PVC @ 1.00%

FIRE HYDRANT ASSEMBLY

SMH
TF=116.34
INV=112.87

97'-6" PVC @ 1.00%

PHASE 2 (REF. ONLY)
PHASE 1

BLUE HILLS AVENUE (CT-187)

PROPOSED ELECTRIC PRIMARY SERVICE LOOP

SMH
TF=117.30
INV=110.43

PROPOSED ELECTRIC VAULT

70'-8" PVC @ 0.50% MIN.

PROPOSED OVERHEAD SERVICE

CONNECT TO EX SMH INV=109.14±

PROPOSED 4" DIP DOMESTIC WATER SERVICE CONNECTION (PROVIDE TSV AT MAIN)

PROPOSED 6" DIP FIRE SERVICE CONNECTION (PROVIDE TSV AT MAIN)

MDC WATER METER PIT (SEE DETAIL)

MDC FIRE WATER METER PIT WITH EXTERNAL BYPASS (SEE DETAIL)

PROPOSED NATURAL GAS SERVICE (TYP.)

4" DIP WATER SERVICE (TYP.)

6" DIP FIRE PROTECTION SERVICE (TYP.)

140'-8" PVC @ 0.50%

SMH
TF=116.79
INV=111.13

154'-8" PVC @ 0.50%

SMH
TF=116.46
INV=111.90

ELECTRIC SERVICE HANDHOLE (TYP.)

BUILDING "A" PAD-MOUNTED TRANSFORMER

SECONDARY ELECTRIC SERVICE

75'-6" PVC @ 3.47%

INV=114.50

STATE OF CONNECTICUT
FRANCIS J. VACCA
29098
LICENSED
PROFESSIONAL ENGINEER

FRANCIS J. VACCA, PE NO. 29098

FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE

IN

BLOOMFIELD
CONNECTICUT

UTILITY PLAN

NOVEMBER 14, 2025

REVISIONS:

PREPARED FOR:

THE FIRST CATHEDRAL
1151 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

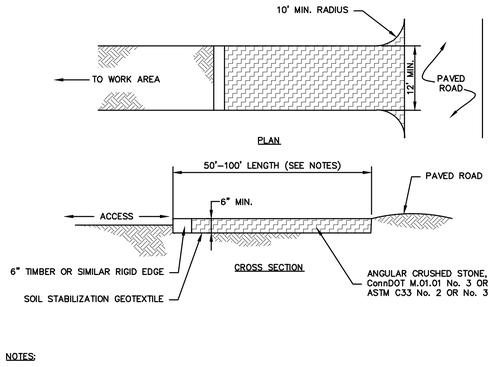
SCALE: 1" = 30'

0 15 30 60 FEET

FILE: P:\0101403\00\CIVIL\DRAWINGS

DWG. NO: C-5.0

JOB. NO: 0101403.00

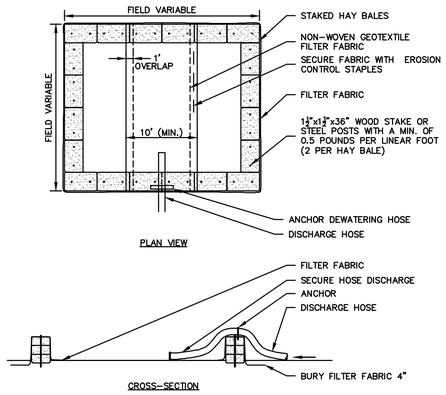


NOTES:

1. REMOVE TOPSOIL AND ORGANICS PRIOR TO CRUSHED STONE PLACEMENT.
2. INSTALL SUB-BASE OF FREE DRAINING BACKFILL OR ROAD STABILIZATION GEOTEXTILE AS NECESSARY ON UNSTABLE SOILS.
3. LENGTH SHALL BE 50 FOOT MINIMUM. WHERE TRACKED SEDIMENTS CONTAIN LESS THAN 80% SAND, LENGTH SHALL BE 100 FOOT MINIMUM.
4. IF THE GRADE OF THE CONSTRUCTION ENTRANCE DRAINS TO THE PAVED SURFACE AND IT EXCEEDS 2% SLOPE, CONSTRUCT ENTRANCE AT LEASE 15 FEET FROM ITS ENTRANCE ONTO THE PAVED SURFACE WHILE DIVERTING RUN-OFF WATER TO A SETTLING OR FILTERING AREA.
5. CONSTRUCT ANY DRAINAGE AND SETTLING FACILITIES REQUIRED TO ACCOMMODATE VEHICLE WASHING OPERATIONS. DIVERT ALL WASH WATER AWAY FROM ENTRANCE TO THE SETTLING AREA.
6. MAINTAIN ENTRANCE IS A CONDITION THAT WILL PREVENT WASHING OF SEDIMENT ONTO PAVED SURFACES.

CONSTRUCTION ENTRANCE

SCALE: NONE
EC-101-CT

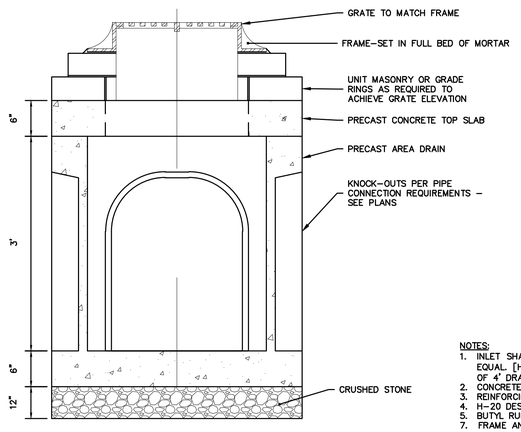


GENERAL NOTES

1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
2. THE BASIN TO BE SIZED ACCORDING TO: CUBIC FEET OF STORAGE = PUMP DISCHARGE RATE(gpm) x 16.
3. SIZE SHOWN ON PLANS SHALL BE ADJUSTED AS REQUIRED FOR THE ACTUAL PUMPING RATE.

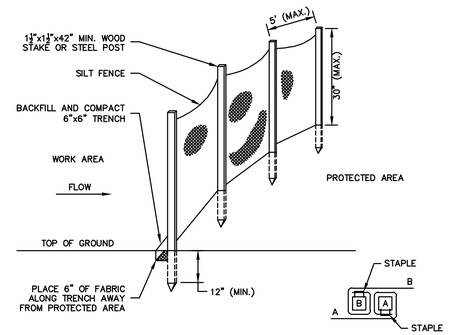
DEWATERING HAY BALE BASIN (TYPE 1)

SCALE: NONE
EC-114-CT



CONCRETE AREA DRAIN

SCALE: NONE

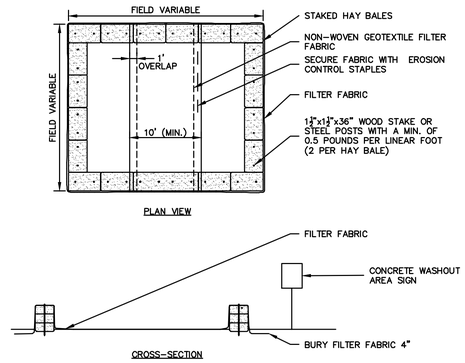


GENERAL NOTES

1. FOR SLOPE & SWALE INSTALLATIONS, EXTEND FENCE OP SLOPE SUCH THAT BOTTOM ENDS OF FENCE WILL BE HIGHER THAN THE TOP OF THE LOWEST PORTION OF FENCE.
2. FOR FENCE INSTALLED ON LEVEL TERRAIN INSTALL WING SECTIONS PERPENDICULAR TO MAIN BARRIER AT 50'-100' INTERVALS.

SILT FENCE BARRIER

SCALE: NONE
EC-107

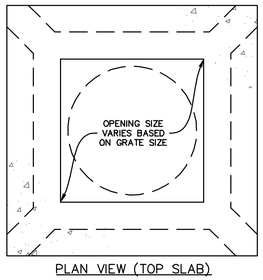


NOTES:

1. CONSTRUCT WASHOUT AREA LARGE ENOUGH TO ENSURE MATERIALS WILL BE CONTAINED WHERE WASTE CONCRETE CAN SOLIDIFY IN PLACE AND EXCESS WATER CAN SAFELY EVAPORATE.
2. WASHOUT AREA SHALL BE LARGE ENOUGH TO RETAIN ALL LIQUID AND WASTE CONCRETE MATERIALS FROM WASHOUT OPERATION.
3. WEEKLY INSPECTIONS OF WASHOUT AREAS SHALL BE CONDUCTED TO ASSESS THE HOLDING CAPACITY AND FUNCTIONALITY OF THE WASHOUT AREA.

TEMPORARY CONCRETE WASHOUT AREA

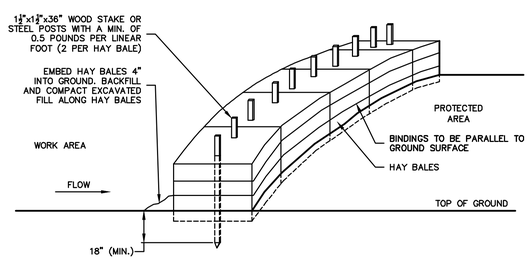
SCALE: NONE



NOTES:

1. INLET SHALL BE 30"x30" CONCRETE AREA DRAIN, AS MANUFACTURED BY ARROW CONCRETE, OR ENGINEER APPROVED EQUAL. [HEIGHT OF DRAIN BOX SHALL BE 3' (MODEL #ADBK03) UNLESS DEPTH OF INVERT PIPE OUT REQUIRES THE USE OF 4' DRAIN BOX (MODEL #ADBK04)]
2. CONCRETE STRENGTH SHALL BE 4,000 PSI AT 28 DAYS.
3. REINFORCING STEEL - ASTM 615 AND A82 OR A185 SPECIFICATIONS.
4. H-20 DESIGN LOADING PER AASHTO HS-20-44.
5. BUTYL RUBBER JOINT SEALANT - ASTM C990-91.
6. FRAME AND GRATE PAIR SHALL BE ONE OF THE FOLLOWING:
   A. STANDARD GRATE SHALL BE NEENAH INLET FRAME/GRATE R-2570 OR ENGINEER APPROVED EQUAL.
   B. ADA STANDARD GRATE SHALL BE NEENAH INLET FRAME/GRATE R-2569 OR ENGINEER APPROVED EQUAL.
   C. STANDARD BEEHIVE GRATE SHALL BE NEENAH INLET FRAME/BEEHIVE GRATE R-2564 OR ENGINEER APPROVED EQUAL.

   - SEE DRAWINGS FOR SPECIFIC LOCATIONS OF TYPE SELECTED.

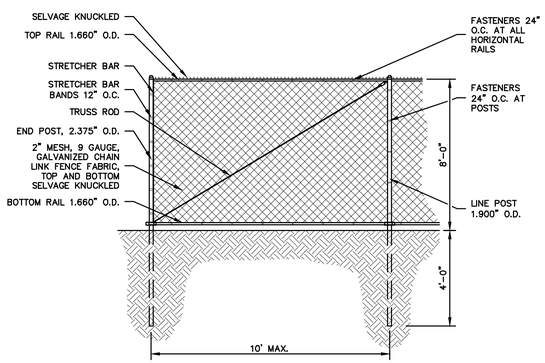


GENERAL NOTES

1. HAY BALES SHALL BE MADE OF HAY OR STRAW WITH 40 POUND MIN. WEIGHT AND 120 POUND MAX. WEIGHT HELD TOGETHER BY TWINE OR WIRE.
2. PLACE HAY BALES ON CONTOUR AND WING THE LAST HAY BALES UP SLOPE SO THAT THE TOP OF THE LAST SEVERAL HAY BALES ARE HIGHER THAN THE LINE OF HAY BALES.
3. DRIVE FIRST STAKE IN EACH BALE TOWARD THE PREVIOUSLY LAID BALE TO FORCE THEM TOGETHER.
4. PUT ONE HAY BALE PERPENDICULAR ALONG HAY BALE BARRIER EACH 100 FEET.

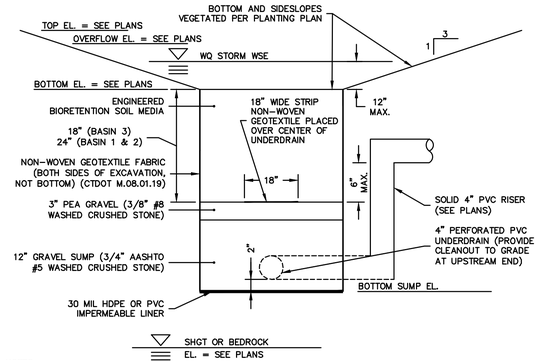
HAY BALE BARRIER

SCALE: NONE
EC-106-CT



CONSTRUCTION FENCE

SCALE: NONE
FSN-104-CT

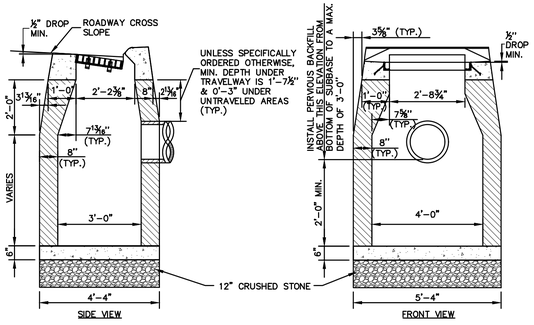


NOTES:

1. DESIGN, CONSTRUCTION, AND MAINTENANCE OF BIORETENTION SYSTEMS SHALL BE IN ACCORDANCE WITH THE 2024 CT STORMWATER QUALITY MANUAL (WQM), CHAPTER 13, BIORETENTION.
2. ENGINEERED BIORETENTION SOIL MEDIA SHALL BE A HOMOGENEOUS SOIL MIX OF (BY VOLUME):
   - 60-85% SAND (ASTM C33, AASHTO M-6, OR CTDOT M.01.04-1 FOR FINE AGGREGATE GRADATIONS)
   - 15-25% TOPSOIL (5-20% ORGANICS, pH 5.5 - 7.0, 5% MAX. CLAY CONTENT, USDA "SANDY LOAM", "LOAMY SAND", OR "LOAM" DESIGNATION)
   - 3-8% ORGANIC MATTER (CONSISTING OF EITHER: SPHAGNUM PEAT WITH 100% PASSING A 1/2" SIEVE AND pH 3.4-4.8 OR WOOD DERIVATIVES CONSISTING OF SHREDDED WOOD, WOOD CHIPS, GROUND BARK, OR WOOD WASE)
3. ENGINEERED BIORETENTION MEDIA SHALL MEET THE GRADATION REQUIREMENTS OF THE WQM, TABLE 13-3.

BIORETENTION BASIN WITH UNDERDRAIN AND LINER

SCALE: NONE

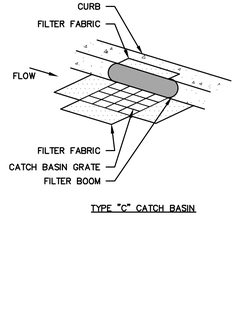


GENERAL NOTES

1. PROVIDE INLET PROTECTION TO ALL EXISTING CATCH BASINS IN THE VICINITY OF CONSTRUCTION. PROTECT NEW CATCH BASINS AS THEY ARE CONSTRUCTED.
2. GRATE TO BE PLACED OVER FILTER FABRIC.

CATCH BASIN FILTER INSERT

SCALE: NONE

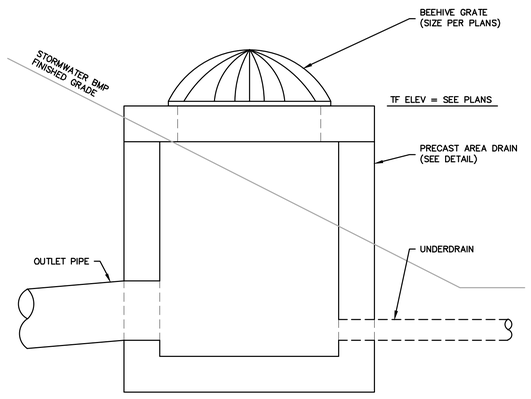


GENERAL NOTES

1. FRAME AND GRATE SHALL BE CONSTRUCTED PER SPECIFICATIONS.
2. ALL FACES OF STRUCTURES IN CONTACT WITH PAVEMENT SHALL BE COVERED WITH TAR PAPER OR APPROVED EQUAL.
3. TO CONVEY SUBSURFACE DRAINAGE, OPENINGS SHALL BE FORMED IN THE FOUR WALLS AT OR IMMEDIATELY ABOVE THE BOTTOM OF PERVIOUS BACKFILL.
4. WALL THICKNESS OF ALL CB'S OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. (12" THICKNESS WILL START AFTER THE FIRST 10').
5. USE APPROPRIATE CONCRETE TOP FOR CURBING SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.
6. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF F'c = 4000 PSI SHALL BE OBTAINED PRIOR TO SHIPPING.

TYPE "C" CATCH BASIN

SCALE: NONE
STM-101-CT



STORMWATER BMP OUTLET STRUCTURE

SCALE: NONE

FRANCIS J. VACCA, PE NO. 29098

FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE

IN

BLOOMFIELD
CONNECTICUT

CIVIL DETAILS

NOVEMBER 14, 2025

REVISIONS:

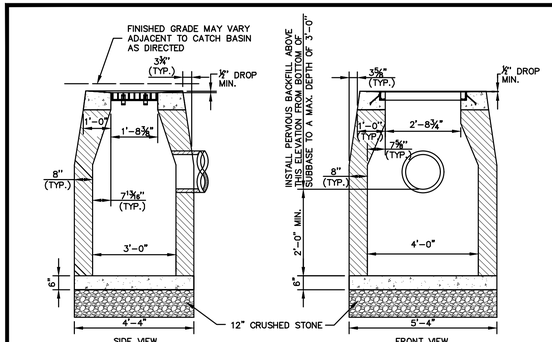
PREPARED FOR:
THE FIRST CATHEDRAL
1151 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

SCALE: AS SHOWN

FILE: P:\010140300\CIVIL\DRAWINGS
DWG. NO:
JOB. NO: 0101403.00

C-6.0

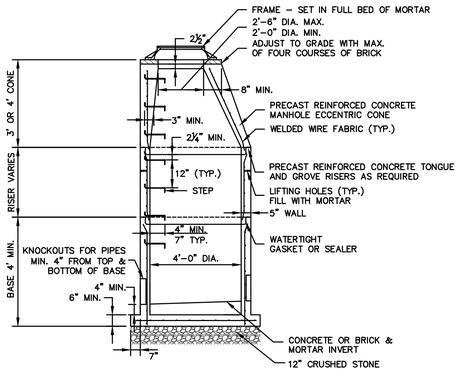


GENERAL NOTES

1. FRAME AND GRATE SHALL BE CONSTRUCTED PER SPECIFICATIONS.
2. ALL FACES OF STRUCTURES IN CONTACT WITH PAVEMENT SHALL BE COVERED WITH TAR PAPER OR APPROVED EQUAL.
3. TO CONVEY SUBSURFACE DRAINAGE, OPENINGS SHALL BE FORMED IN THE FOUR WALLS AT OR IMMEDIATELY ABOVE THE BOTTOM OF PERVIOUS BACKFILL.
4. WALL THICKNESS OF ALL CB'S OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. (12" THICKNESS WILL START AFTER THE FIRST 10').
5. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF F'c = 4000 PSI SHALL BE OBTAINED PRIOR TO SHIPPING.

TYPE "C-L" CATCH BASIN

SCALE: NONE
STM-102-CT

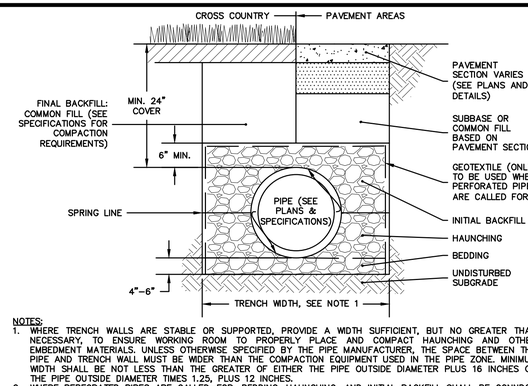


GENERAL NOTES

1. 5' OR 6' DIA. PRECAST BASES MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' OR 6' BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS TO INCREASE 1" FOR EACH 1' OF INSIDE DIAMETER INCREASE.
2. FRAME DIAMETER OF 3'-3" WITH 4" FLANGE MUST BE USED WHEN THE TOP DIA. OF THE PRECAST CONE IS LESS THAN 3'-6". ALL OTHER FRAME DIMENSIONS ARE TO REMAIN THE SAME.
3. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF F'c = 4000 PSI SHALL BE OBTAINED PRIOR TO SHIPPING.

STORM DRAINAGE MANHOLE

SCALE: NONE
STM-109-CT

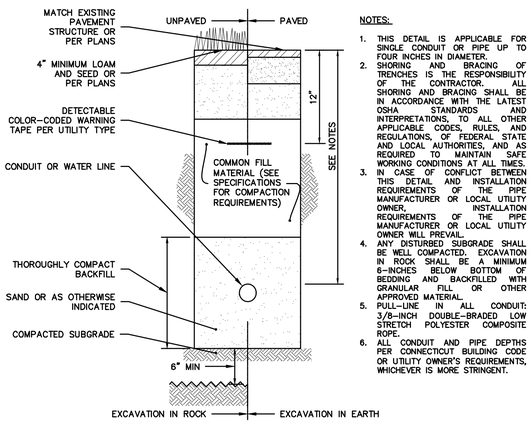


NOTES:

1. WHERE TRENCH WALLS ARE STABLE OR SUPPORTED, PROVIDE A WIDTH SUFFICIENT, BUT NO GREATER THAN NECESSARY, TO ENSURE WORKING ROOM TO PROPERLY PLACE AND COMPACT HAUNCHING AND OTHER EMBEDMENT MATERIALS. UNLESS OTHERWISE SPECIFIED BY THE PIPE MANUFACTURER, THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED IN THE PIPE ZONE. MINIMUM WIDTH SHALL BE NOT LESS THAN THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25, PLUS 12 INCHES.
2. WHERE PERFORATED PIPES ARE CALLED-FOR, BEDDING, HAUNCHING, AND INITIAL BACKFILL SHALL BE CONNDOT NO. 6 CRUSHED STONE SHALL MEET THE REQUIREMENTS OF FORM 816 M.08.
3. WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL PER THE SPECIFICATIONS. AS AN ALTERNATIVE, AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL UNDER SOME CIRCUMSTANCES.
4. BEDDING, HAUNCHING, AND INITIAL BACKFILL SHALL BE CONNDOT NO. 6, NO. 67, OR NO. 8 AGGREGATE OR OTHER MATERIALS MEETING THE REQUIREMENTS OF ASTM D2321 FOR CLASS IA, IB, II, OR III UNLESS OTHERWISE INDICATED BY THE PIPE MANUFACTURER.

TYPICAL TRENCH SECTION - THERMOPLASTIC DRAINAGE PIPE

SCALE: NONE

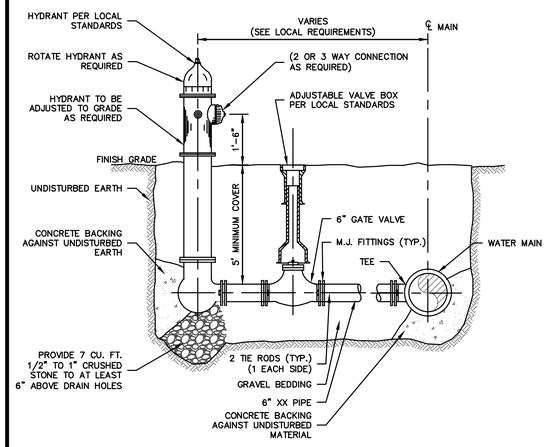


NOTES:

1. THIS DETAIL IS APPLICABLE FOR SINGLE CONDUIT OR PIPE UP TO FOUR INCHES IN DIAMETER.
2. SHORING AND BRACING OF TRENCHES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL SHORING AND BRACING SHALL BE IN ACCORDANCE WITH THE LATEST OSHA STANDARDS AND INTERPRETATIONS, TO ALL OTHER APPLICABLE CODES, RULES, AND REGULATIONS, OF FEDERAL STATE AND LOCAL AUTHORITIES, AND AS REQUIRED TO MAINTAIN SAFE WORKING CONDITIONS AT ALL TIMES.
3. IN CASE OF CONFLICT BETWEEN THIS DETAIL AND INSTALLATION REQUIREMENTS OF THE PIPE MANUFACTURER OR LOCAL UTILITY OWNER, INSTALLATION REQUIREMENTS OF THE PIPE MANUFACTURER OR LOCAL UTILITY OWNER WILL PREVAIL.
4. ANY DISTURBED SUBGRADE SHALL BE WELL COMPACTED. EXCAVATION IN ROCK SHALL BE A MINIMUM 6-INCHES BELOW BOTTOM OF BEDDING AND BACKFILLED WITH GRANULAR FILL OR OTHER APPROVED MATERIAL.
5. PULL-LINE IN ALL CONDUIT: 3/8-INCH DOUBLE-BRAIDED LOW STRETCH POLYESTER COMPOSITE ROPE.
6. ALL CONDUIT AND PIPE DEPTHS PER CONNECTICUT BUILDING CODE OR UTILITY OWNER'S REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

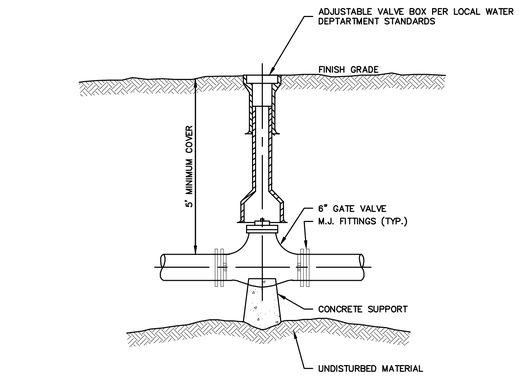
CONDUIT OR WATER SERVICE TRENCH

SCALE: NONE



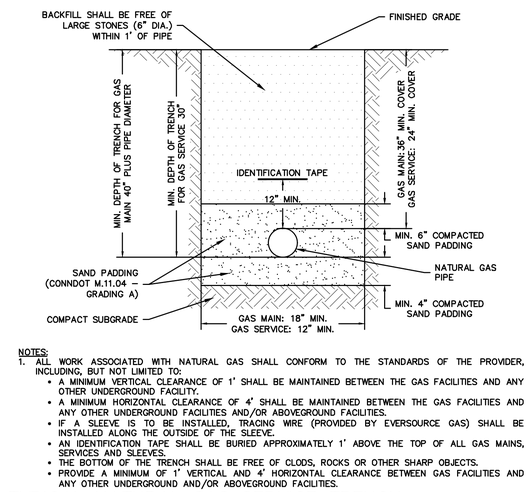
FIRE HYDRANT & VALVE

SCALE: NONE
WTR-103-CT



GATE VALVE

SCALE: NONE
WTR-102-CT

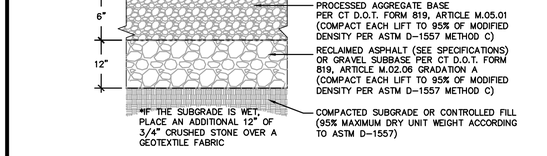


NOTES:

1. ALL WORK ASSOCIATED WITH NATURAL GAS SHALL CONFORM TO THE STANDARDS OF THE PROVIDER, INCLUDING, BUT NOT LIMITED TO:
   - A MINIMUM VERTICAL CLEARANCE OF 1' SHALL BE MAINTAINED BETWEEN THE GAS FACILITIES AND ANY OTHER UNDERGROUND FACILITY.
   - A MINIMUM HORIZONTAL CLEARANCE OF 4' SHALL BE MAINTAINED BETWEEN THE GAS FACILITIES AND ANY OTHER UNDERGROUND FACILITIES AND/OR ABOVEGROUND FACILITIES.
   - IF A SLEEVE IS TO BE INSTALLED, TRACING WIRE (PROVIDED BY EVERSOURCE GAS) SHALL BE INSTALLED ALONG THE OUTSIDE OF THE SLEEVE.
   - AN IDENTIFICATION TAPE SHALL BE BURIED APPROXIMATELY 1' ABOVE THE TOP OF ALL GAS MAINS, SERVICES AND SLEEVES.
   - THE BOTTOM OF THE TRENCH SHALL BE FREE OF CLODS, ROCKS OR OTHER SHARP OBJECTS.
   - PROVIDE A MINIMUM OF 1' VERTICAL AND 4' HORIZONTAL CLEARANCE BETWEEN GAS FACILITIES AND ANY OTHER UNDERGROUND AND/OR ABOVEGROUND FACILITIES.

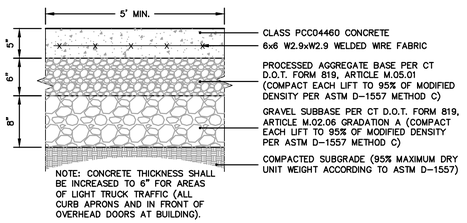
TYPICAL NATURAL GAS SERVICE TRENCH

SCALE: NONE



TYPICAL ASPHALT PAVING

SCALE: NONE



NOTES:

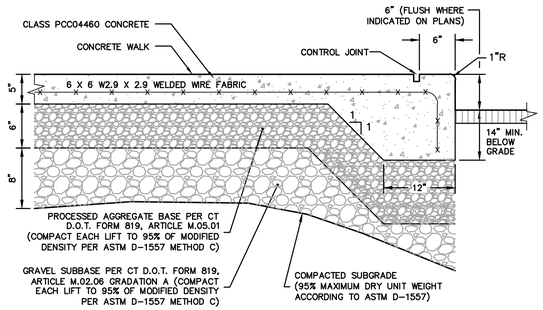
1. ALL SIDEWALK WITHIN THE CITY ROW SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS.
2. PLASTIC SHALL NOT BE USED WHEN WET CURING CONCRETE.
3. PRIOR TO CONCRETE PLACEMENT, THE CONTRACTOR SHALL HOLD A PRECONSTRUCTION MEETING WITH THE ENGINEER AND PREPARE MOCKUPS FOR REVIEW.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT CONCRETE BASED ON AESTHETICS AND/OR INCONSISTENCY OF THE FINISHED PRODUCT.
5. WHERE CONCRETE SIDEWALK ABUTS THE BUILDING, PROVIDE EXPANSION JOINT MATERIAL AS MANUFACTURED BY W.R. MEADOWS FIBRE EXPANSION JOINT, SAKRETE FIBER EXPANSION JOINT, OR EQUAL, AND SHALL INCLUDE A PREFORMED, DISPOSABLE RESERVOIR TO ACCEPT MANUFACTURER RECOMMENDED SEALANT.
6. FOR CONCRETE APRONS CONTIGUOUS TO THE BUILDING THE GRAVEL SUBBASE SHALL EXTEND TO 18" BELOW GRADE.

WATER SERVICE CONNECTION

SCALE: NONE
WTR-104-CT

CONCRETE SIDEWALK

SCALE: NONE

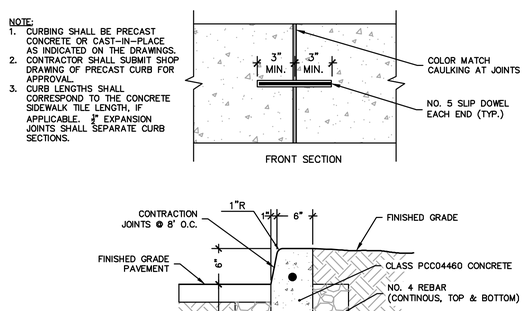


NOTES:

1. CURB LENGTHS SHALL CORRESPOND TO THE CONCRETE SIDEWALK TILE LENGTH, IF APPLICABLE. ½" EXPANSION JOINTS SHALL SEPARATE CURB SECTIONS.
2. ALL SIDEWALK WITHIN THE CITY ROW SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS.
3. PLASTIC SHALL NOT BE USED WHEN WET CURING CONCRETE.
4. PRIOR TO CONCRETE PLACEMENT, THE CONTRACTOR SHALL HOLD A PRECONSTRUCTION MEETING WITH THE ENGINEER AND PREPARE MOCKUPS FOR REVIEW.
5. THE ENGINEER RESERVES THE RIGHT TO REJECT CONCRETE BASED ON AESTHETICS AND/OR INCONSISTENCY OF THE FINISHED PRODUCT.
6. WHERE CONCRETE SIDEWALK ABUTS THE BUILDING, PROVIDE EXPANSION JOINT MATERIAL AS MANUFACTURED BY W.R. MEADOWS FIBRE EXPANSION JOINT, SAKRETE FIBER EXPANSION JOINT, OR EQUAL AND SHALL INCLUDE A PREFORMED, DISPOSABLE RESERVOIR TO ACCEPT MANUFACTURER RECOMMENDED SEALANT.

INTEGRAL CONCRETE CURB AND SIDEWALK

SCALE: NONE



CONCRETE CURB

SCALE: NONE

FRANCIS J. VACCA, PE NO. 29098

FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE

IN

BLOOMFIELD CONNECTICUT

CIVIL DETAILS

NOVEMBER 14, 2025

REVISIONS:

PREPARED FOR:

THE FIRST CATHEDRAL
1151 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

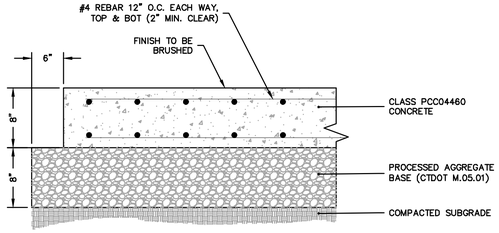
SCALE: AS SHOWN

FILE: P:\0101403\00\CIVIL\DRAWINGS

DWG. NO:

JOB. NO: 0101403.00

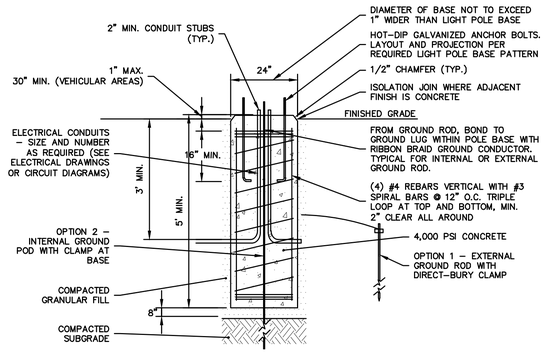
C-6.1



NOTES:
1. PLASTIC SHALL NOT BE USED WHEN WET CURING CONCRETE.
2. PRIOR TO CONCRETE PLACEMENT, THE CONTRACTOR SHALL HOLD A PRECONSTRUCTION MEETING WITH THE ENGINEER AND PREPARE MOCKUPS FOR REVIEW.
3. THE ENGINEER RESERVES THE RIGHT TO REJECT CONCRETE BASED ON AESTHETICS AND/OR INCONSISTENCY OF THE FINISHED PRODUCT.
4. TOOLED CONTROL JOINTS SHALL BE 1/4 SLAB THICKNESS. TOOL JOINTS EARLY IN THE FINISHING PROCESS AND RE-RUN TO ENSURE GROOVE BOND HAS NOT OCCURRED.
5. FULL-DEPTH JOINTS SHALL INCORPORATE FULL-DEPTH JOINT FILLER PER SPECIFICATIONS AND DETAILS.
6. PAD SHALL HAVE LIGHT BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL.
7. TOOL CONTROL JOINTS AT A SPACING TWICE THE SLAB THICKNESS IN FEET. EVERY OTHER JOINT SHOULD BE A CONSTRUCTION JOINT.

REINFORCED CONCRETE PAD

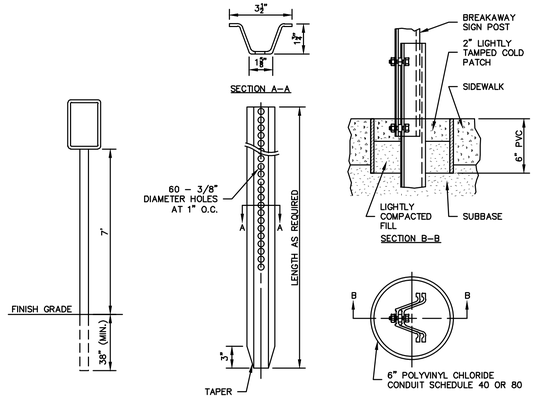
SCALE: NONE

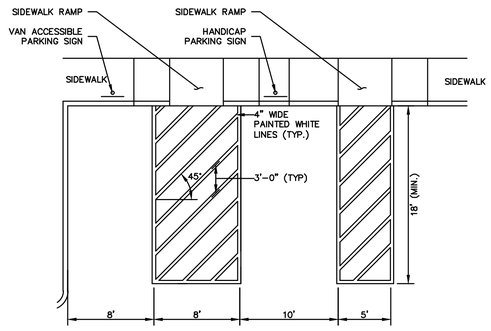


NOTES:
1. REINFORCING BARS SHALL BE DEFORMED BAR, ASTM A615 GRADE 60.
2. CONDUIT LOCATIONS SHOWN ARE CONCEPTUAL. REFER TO ELECTRICAL DRAWINGS OR CIRCUIT DIAGRAMS FOR THE NUMBER, SIZES, AND ORIENTATION REQUIRED.
3. ALL GROUND RODS SHALL BE COPPER-COATED. DIAMETER AND LENGTH PER APPLICABLE CODES. GROUNDING WIRE SHALL BE No. 4 AWG STRANDED COPPER WIRE UNLESS OTHERWISE SPECIFIED.
4. ANCHOR BOLTS SHOWN ARE CONCEPTUAL. ANCHOR BOLT SPECIFICATIONS SHALL MEET THE POLE MANUFACTURER'S REQUIREMENTS FOR SIZE, LENGTH, AND GRADE, BASED ON POLE TYPE, HEIGHT, AND FIXTURE(S).

LIGHT POLE BASE

SCALE: NONE





GENERAL NOTE

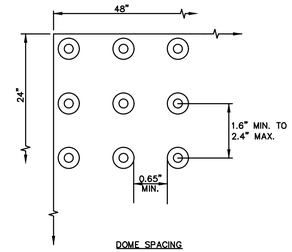
GRADING WITHIN HANDICAP SPACES SHALL BE 2% MAX. IN ALL DIRECTIONS

TYPICAL SIGN SUPPORT – BREAKAWAY TYPE I

SCALE: NONE
FSN-116-CT

ACCESSIBLE PARKING SPACES

SCALE: NONE
HC-110-CT



DOME SPACING

GENERAL NOTES

1. MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP OR ACCESSIBLE ROUTE SHOULD NOT EXCEED 20:1.
2. CARE SHALL BE TAKEN TO ASSURE UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND ABRUPT GRADE CHANGES.
3. ALL RAMPS SHALL BE CONSTRUCTED OF CONCRETE SPECIFICED IN THE PROJECT SPECIFICATIONS.
4. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE ALONG ACCESSIBLE ROUTES SHALL BE STABLE, FIRM AND SLIP RESISTANT IN COMPLIANCE WITH ADA ACCESSIBILITY GUIDELINES SECTION 4.5.
5. DIAGONAL SIDEWALK RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
6. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION/CONTRACTION JOINT OR DUMMY JOINT. 12:1 MAY NOT BE ACHIEVABLE DUE TO SIDEWALK GRADE. IN RECOGNITION OF THIS, A MINIMUM LIMIT OF 15' FOR A PARALLEL RAMP SHALL BE USED. REMOVAL SHALL NOT BE FURTHER THAN 2' FROM THE PROPOSED RAMP UNLESS DIRECTED BY THE ENGINEER.
7. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' UNLESS OTHERWISE NOTED.
8. RAISED ISLANDS IN MARKED CROSSINGS SHALL HAVE SIDEWALK RAMPS AT BOTH SIDES AND A LEVEL AREA AT LEAST 4' LONG BETWEEN THE RAMPS. IF THIS CAN NOT BE ACHIEVED, THE RAISED ISLAND SHALL BE CUT THROUGH LEVEL WITH THE ROADWAY AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
9. CURBING WITHIN THE LIMITS OF THE NEW SIDEWALK RAMP SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS PLANS AND SPECIFICATIONS.
10. HANDICAP RAMPS CONFORMING WITH CONNECTICUT GENERAL STATUTES, SEC. 7-118a, SHALL BE INCORPORATED IN ALL PROPOSED SIDEWALKS AT ALL STREET INTERSECTIONS, AND AT ALL OTHER LOCATIONS WHERE THE GRADE OF A DRIVEWAY OR OTHER FACILITY TAKES PRECEDENCE OVER THE GRADE OF THE PROPOSED SIDEWALK.
11. TRANSITION TO FULL HEIGHT CURB. INSTALL STONE CURBING IF ADJACENT CURBING IS STONE. INSTALL CONCRETE CURBING IF ADJACENT CURBING IS CONCRETE OR BITUMINOUS.
12. INSTALL THE EDGE OF THE DETECTABLE WARNING STRIP 6 INCHES FROM THE EDGE OF ROAD.
13. TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES OF THE DETECTABLE WARNING STRIPS, ALIGN DOMES ON A SQUARE GRID. IN THE DIRECTION OF PEDESTRIAN TRAVEL.

* SEE SIDEWALK RAMP NOTES

DOME SECTION

SIDEWALK RAMP NOTES

SCALE: NONE
HC-109-CT

PARALLEL SIDEWALK RAMP (TYPE 1)

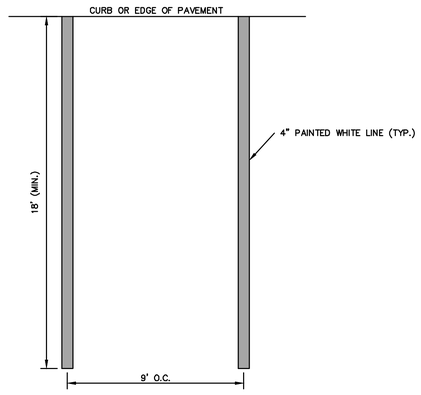
SCALE: NONE
HC-101-CT

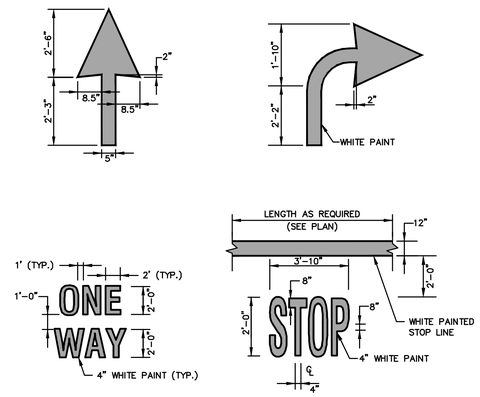
DIAGONAL SIDEWALK RAMP (TYPE 4d)

SCALE: NONE
HC-107-CT

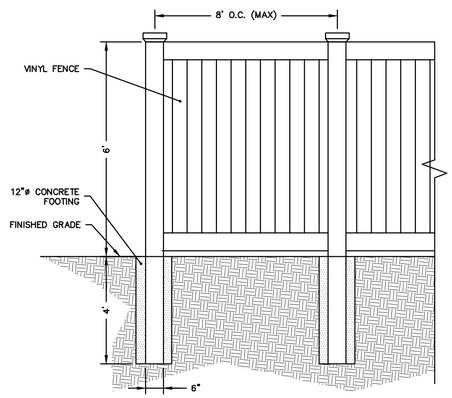
DETECTABLE WARNING STRIP

SCALE: NONE
HC-108-CT





NOTES:
1. PAVEMENT MARKINGS SHOWN SHALL NOT BE INSTALLED ON PUBLIC ROADWAYS.



STANDARD PAINTED PARKING MARKINGS

SCALE: NONE

PAINTED PAVEMENT MARKINGS

SCALE: NONE
PVT-104-CT

VINYL FENCE

SCALE: NONE

FRANCIS J. VACCA, PE NO. 29098

FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE

IN

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CIVIL DETAILS

NOVEMBER 14, 2025

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PREPARED FOR:

THE FIRST CATHEDRAL
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BLOOMFIELD, CT 06002

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

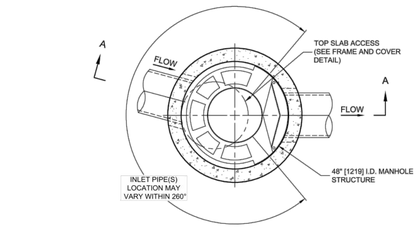
SCALE: AS SHOWN

FILE: P:\010140300\CIVIL\DRAWINGS

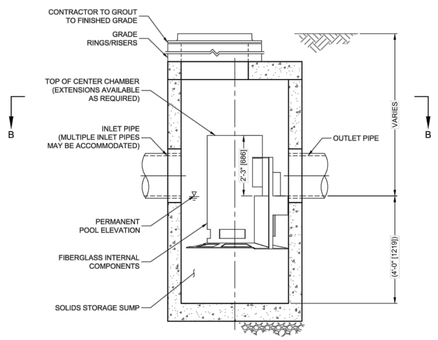
DWG. NO:

JOB. NO: 0101403.00

C-6.2



PLAN VIEW B-B
NOT TO SCALE



ELEVATION A-A
NOT TO SCALE

CASCADE
separator™

CASCADE SEPARATOR DESIGN NOTES

THE STANDARD CS-4 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES

FRAME AND COVER
(DIAMETER VARIES)
NOT TO SCALE

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (cfs [L/s])			
PEAK FLOW RATE (cfs [L/s])			
RETURN PERIOD OF PEAK FLOW (yrs)			
RIM ELEVATION			
PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			

NOTES / SPECIAL REQUIREMENTS:

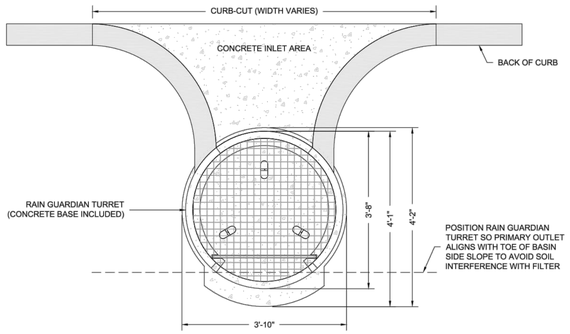
GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

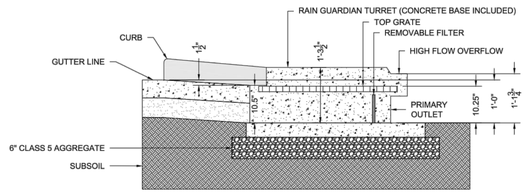
CS-4
CASCADE SEPARATOR
STANDARD DETAIL

I:\COMMON\CAD\TREATMENT\21 CASCADE\40 STANDARD DRAWINGS\DWG\CS-4.DTL.DWG 12/2/2019 9:34 AM



NOTES
1. INLET WIDTH AND DISTANCE BETWEEN BACK OF CURB AND RAIN GUARDIAN TURRET MAY VARY WITH SITE CONDITIONS.
2. CONCRETE BASE EXTENDS BEYOND THE FILTER WALL OF THE RAIN GUARDIAN TURRET TO SERVE AS A SPLASH DISSIPATOR.

RAIN GUARDIAN TURRET - PLAN VIEW



NOTES:
1. THE TOP OF THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR) IS PRECISELY 1' 4" BELOW THE GUTTERLINE ELEVATION.

RAIN GUARDIAN TURRET - SECTION VIEW

SPECIFICATIONS
1. STEEL REINFORCED, COLD JOINT SECURED MONOLITHIC CONCRETE STRUCTURE (1,030 LBS). CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS. CONCRETE AIR ENTRAINED (4% TO 8% BY VOLUME). MANUFACTURED AND DESIGNED TO ASTM C858.
2. THREE-POINT PICK USING RECESSED LIFTING POCKETS WITH A STANDARD HOOK.
3. TOP GRATE.

INSTALLATION NOTES
1. INSTALL THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR). THE DISTANCE FROM THE BACK OF THE CURB MAY VARY BASED ON SITE CONDITIONS, BUT CONSIDERATIONS SHOULD INCLUDE SLOPE OF THE INLET AND BASIN SIDE SLOPES ADJACENT TO THE RAIN GUARDIAN TURRET. POSITION RAIN GUARDIAN TURRET SO PRIMARY OUTLET ALIGNS WITH TOE OF BASIN SIDE SLOPE TO AVOID SOIL INTERFERENCE WITH REMOVABLE FILTER WALL. EXCAVATE 1' 10" BELOW THE GUTTERLINE ELEVATION (I.E. THE BIORETENTION OVERFLOW ELEVATION) TO ACCOMMODATE THE 1' PONDING DEPTH, 6" CLASS 5 AGGREGATE, AND 4" RAIN GUARDIAN TURRET BASE (INCLUDED). THEREFORE, THE TOP OF THE CLASS 5 COMPACTED BASE IS PRECISELY 1' 4" BELOW THE GUTTERLINE ELEVATION. THE INLET TO THE RAIN GUARDIAN TURRET WILL BE 10-1/2" ABOVE THE TOP OF THE CONCRETE BASE AND 1-1/2" BELOW THE GUTTERLINE ELEVATION TO ACCOMMODATE A SLOPED INLET FROM THE GUTTER TO THE RAIN GUARDIAN TURRET.
2. SET RAIN GUARDIAN TURRET ON THE PREPARED CLASS 5 BASE.
3. INSTALL FRAMING FOR INLET BETWEEN RAIN GUARDIAN TURRET AND BACK OF CURB. TOP ELEVATIONS OF THE FRAMING SHOULD MATCH THE TOP OF THE CURB ON THE STREET SIDE AND THE TOP OF THE RAIN GUARDIAN TURRET ON THE BIORETENTION SIDE.
4. INSTALL EXPANSION/CONTRACTION JOINT MATERIAL OR A SHEET OF POLY TO SERVE AS A BOND BREAK BETWEEN RAIN GUARDIAN TURRET AND CONCRETE INLET BEFORE POURING INLET.
5. SIDE CURBS OF THE POURED INLET MUST HAVE AN INSURMOUNTABLE PROFILE TO PREVENT WATER FLOW FROM OVERTOPPING THE DOWNSTREAM SIDE OF THE INLET.
6. REMOVABLE FILTER WALL SHOULD BE INSTALLED WITH FILTER FABRIC ON THE INTERIOR SIDE OF THE RAIN GUARDIAN TURRET.

RAIN GUARDIAN PRETREATMENT FOR BIORETENTION
PRETREATMENT FOR BIORETENTION
ENGINEER OF RECORD TO REVIEW, APPROVE AND ENDORSE FINAL SITE SPECIFIC DESIGN.

FERGUSON WATERWORKS
FOR ADDITIONAL INFORMATION PLEASE CONTACT:
FERGUSON WATERWORKS
1-800-449-3936, www.ferguson.com

RAIN GUARDIAN
TURRET PRETREATMENT CHAMBER
TYPICAL DETAIL

DEVELOPED BY:
ANOKA CONSERVATION DISTRICT

U.S. PATENT NO(S).: 8,501,016 AND 8,858,804

DRAWN BY
JKB
DATE
9/26/2022
SHEET NO.
1 of 1

STATE OF CONNECTICUT
FRANCIS J. VACCA
29098
LICENSED
PROFESSIONAL ENGINEER

FRANCIS J. VACCA, PE NO. 29098

FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE
IN
BLOOMFIELD
CONNECTICUT

CIVIL DETAILS

NOVEMBER 14, 2025

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BLOOMFIELD, CT 06002

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

SCALE: AS SHOWN

FILE: P:\010140300\CIVIL\DRAWINGS
DWG. NO:
JOB. NO: 0101403.00
C-6.3

Advanced Drainage Systems, Inc.

ADS SiteAssist™
FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR WEBSITE

SC-800 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-800.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 700 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2419 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-800 SYSTEM

1. STORMTECH SC-800 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE SC-310/DC-780/SC-800".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 3" (75 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

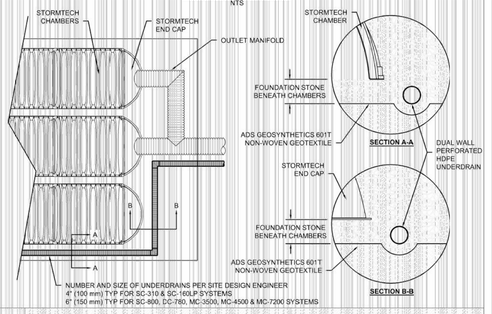
NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE SC-310/DC-780/SC-800".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-800 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE SC-310/DC-780/SC-800".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH INSTALLATION GUIDE SC-310/DC-780/SC-800".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

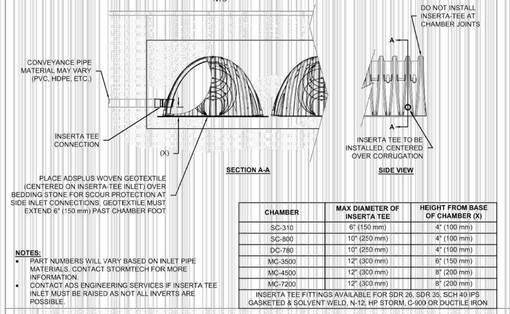
CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

UNDERDRAIN DETAIL
NTS



5 UNDERDRAIN DETAIL

INSERTA TEE DETAIL
NTS



PLACE ADSPLUS WOVEN GEOTEXTILE (CENTERED ON INSERTA TEE) FOR OVER BEDDING STONE FOR SCOUR PROTECTION AT SIDE INLET CONNECTIONS. GEOTEXTILE MUST EXTEND 6" (150 mm) PAST CHAMBER FOOT

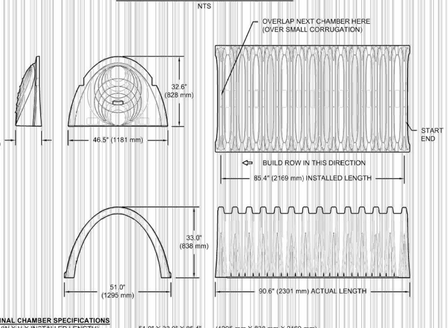
CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-800	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
MC-7200	12" (300 mm)	8" (200 mm)

INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON

NOTES:
- PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.
- CONTACT ADS ENGINEERING SERVICES IF INSERTA TEE INLET MUST BE RAISED AS NOT ALL INVERTS ARE POSSIBLE.

6 INSERTA-TEE SIDE INLET DETAIL

SC-800 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 33.0" X 85.4"	(1295 mm X 838 mm X 2169 mm)
CHAMBER STORAGE	50.6 CUBIC FEET	(1.43 m³)
MINIMUM INSTALLED STORAGE*	78.4 CUBIC FEET	(2.22 m³)
WEIGHT	81.8 lbs.	(37.1 kg)

NOMINAL END CAP SPECIFICATIONS

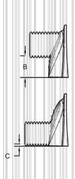
SIZE (W X H X INSTALLED LENGTH)	46.5" X 32.6" X 10.5"	(1181 mm X 828 mm X 267 mm)
END CAP STORAGE	3.4 CUBIC FEET	(0.09 m³)
MINIMUM INSTALLED STORAGE**	14.7 CUBIC FEET	(0.42 m³)
WEIGHT	15.7 lbs.	(7.1 kg)

* ASSUMES 6" (150 mm) STONE ABOVE AND BELOW CHAMBER, 3" (75 mm) BETWEEN CHAMBERS
**ASSUMES 6" (150 mm) STONE ABOVE AND BELOW END CAPS, 3" (75 mm) BETWEEN ROWS, 12" (300 mm) BEYOND END CAPS

PRE-CORED HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "BPC"
PRE-CORED HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "TPC"

PART #	STUB	B	C
SC800EPE06TPC	6" (150 mm)	21.4" (544 mm)	---
SC800EPE06BPC		---	0.9" (23 mm)
SC800EPE08TPC	8" (200 mm)	19.2" (488 mm)	---
SC800EPE08BPC		---	1.0" (25 mm)
SC800EPE10TPC	10" (250 mm)	17.0" (432 mm)	---
SC800EPE10BPC		---	1.2" (30 mm)
SC800EPE12TPC	12" (300 mm)	14.4" (366 mm)	---
SC800EPE12BPC		---	1.6" (41 mm)
SC800EPE15TPC	15" (375 mm)	11.3" (287 mm)	---
SC800EPE15BPC		---	1.7" (43 mm)
SC800EPE18TPC	18" (450 mm)	8.0" (203 mm)	---
SC800EPE18BPC		---	2.0" (51 mm)
SC800EGE2	24" (600 mm)	---	2.3" (58 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

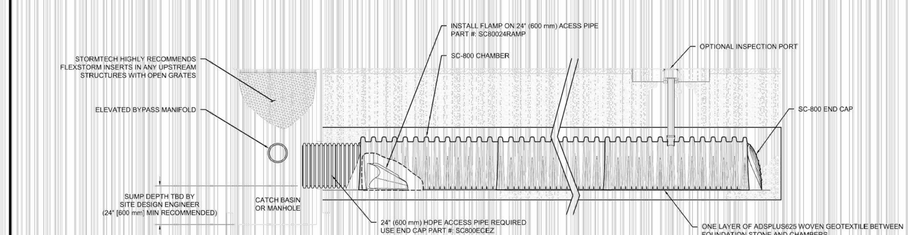


2 SC-800 TECHNICAL SPECIFICATIONS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-800 CHAMBER SYSTEMS

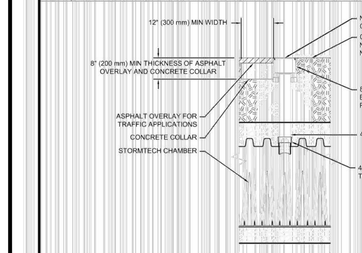
	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (375 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[1]	AASHTO M43[1] 3, 357, 4, 467, 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 OR RECYCLED CONCRETE[1]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

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 NO. 4 (AASHTO M43) STONE"
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



SC-800 ISOLATOR ROW PLUS DETAIL
NTS

3 SC-800 ISOLATOR ROW PLUS DETAIL



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1 REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2 REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3 USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4 LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5 IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1 REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2 USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3 IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

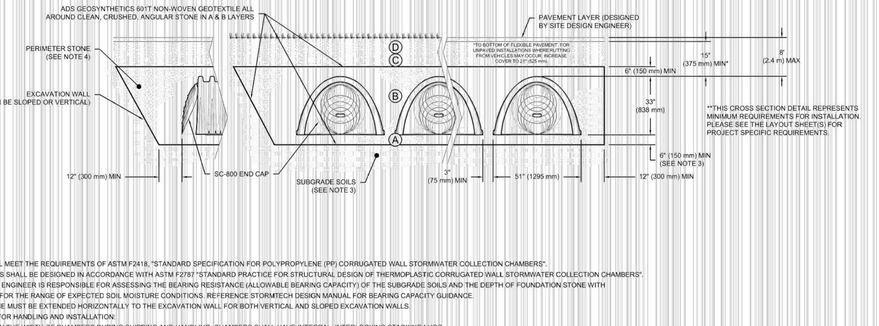
STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

4 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)



NOTES:
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-800 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. 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. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2" (50 mm).
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 700 LBS/FT/%, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 SC-800 CROSS SECTION DETAIL

DRAWN: SMW | DATE: 08/05/2025
REVIEWED: JLM | PROJECT NO: 721-890
REV: | NOT TO SCALE

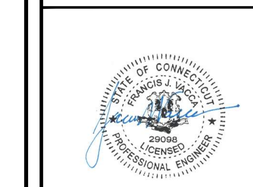
SC-800 STANDARD DETAILS

StormTech® Chamber System

4640 TRUEMAN BLVD
HILLIARD, OH 43026

ADS Advanced Drainage Systems, Inc.

SHEET 1



FRANCIS J. VACCA, PE NO. 29098

FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE

IN

BLOOMFIELD CONNECTICUT

CIVIL DETAILS

NOVEMBER 14, 2025

REVISIONS:

PREPARED FOR:
THE FIRST CATHEDRAL
1151 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

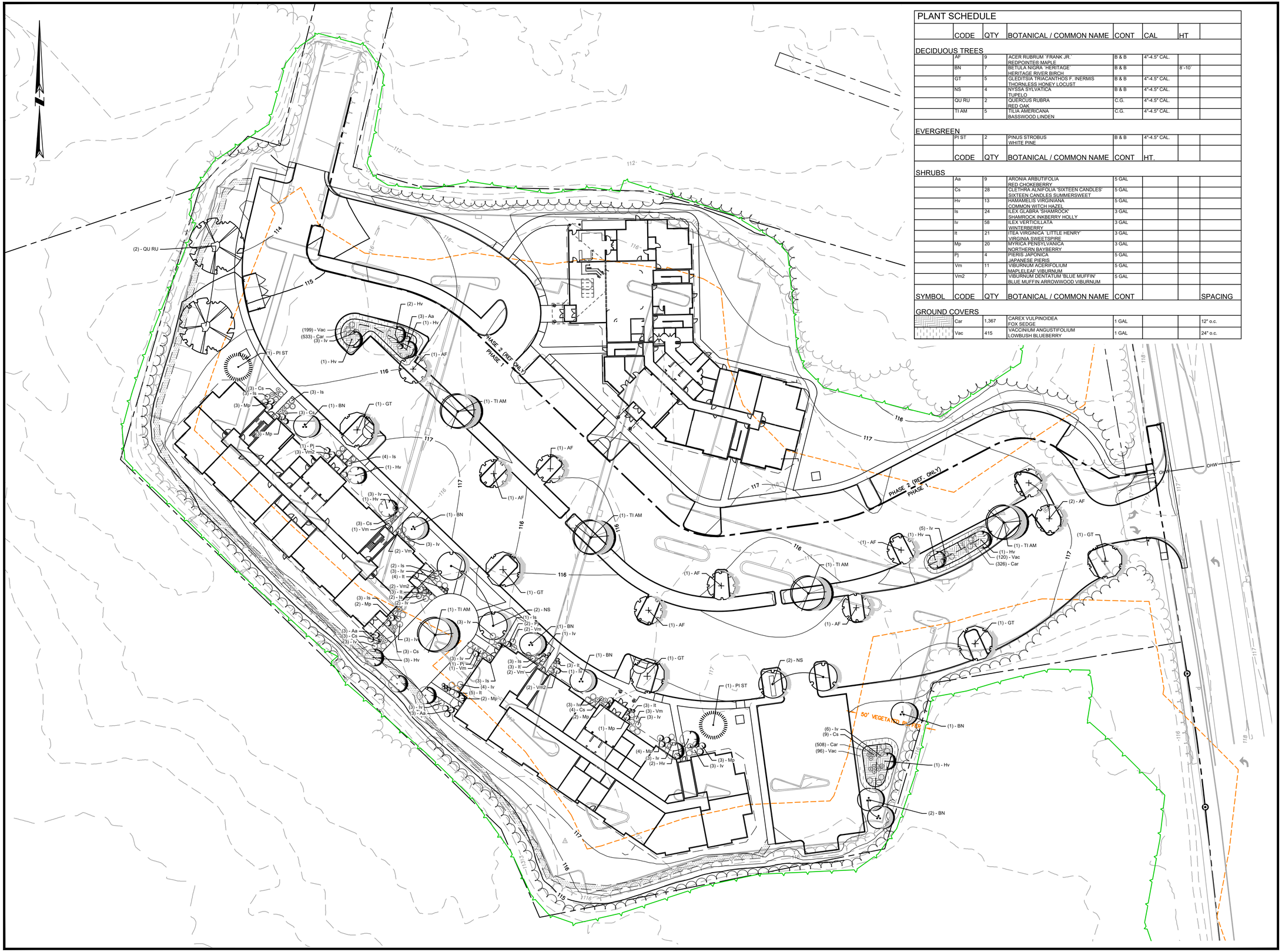
BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

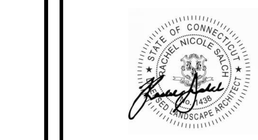
SCALE: AS SHOWN

FILE: P:\010140300\CIVIL\DRAWINGS
DWG. NO:
JOB. NO: 0101403.00

C-6.4

PLANT SCHEDULE							
	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HT	
DECIDUOUS TREES							
	AF	9	ACER RUBRUM 'FRANK JR.' REDPOINTE® MAPLE	B & B	4"-4.5" CAL.		
	BN	7	BETULA NIGRA 'HERITAGE' HERITAGE RIVER BIRCH	B & B		8'-10'	
	GT	5	GLEDITSIA TRIACANTHOS F. INERMIS THORNLESS HONEY LOCUST	B & B	4"-4.5" CAL.		
	NS	4	NYSSA SYLVATICA TUPELO	B & B	4"-4.5" CAL.		
	QU RU	2	QUERCUS RUBRA RED OAK	C.G.	4"-4.5" CAL.		
	TI AM	5	TILIA AMERICANA BASSWOOD LINDEN	C.G.	4"-4.5" CAL.		
EVERGREEN							
	PI ST	2	PINUS STROBUS WHITE PINE	B & B	4"-4.5" CAL.		
	CODE	QTY	BOTANICAL / COMMON NAME	CONT	HT.		
SHRUBS							
	Aa	9	ARONIA ARBUTIFOLIA RED CHOKEBERRY	5 GAL			
	Cs	28	CLETHRA ALNIFOLIA 'SIXTEEN CANDLES' SIXTEEN CANDLES SUMMERSWEET	5 GAL			
	Hv	13	HAMAMELIS VIRGINIANA COMMON WITCH HAZEL	5 GAL			
	Is	24	ILEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY	3 GAL			
	Iv	58	ILEX VERTICILLATA WINTERBERRY	3 GAL			
	It	21	ITEA VIRGINICA 'LITTLE HENRY' VIRGINIA SWEETSPIRE	3 GAL			
	Mp	20	MYRICA PENSYLVANICA NORTHERN BAYBERRY	3 GAL			
	Pj	4	PIERIS JAPONICA JAPANESE PIERIS	5 GAL			
	Vm	11	VIBURNUM ACERIFOLIUM MAPLELEAF VIBURNUM	5 GAL			
	Vm2	7	VIBURNUM DENTATUM 'BLUE MUFFIN' BLUE MUFFIN ARROWWOOD VIBURNUM	5 GAL			
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT			SPACING
GROUND COVERS							
	Car	1,367	CAREX VULPINOIDEA FOX SEDGE	1 GAL			12" o.c.
	Vac	415	VACCINIUM ANGUSTIFOLIUM LOWBUSH BLUEBERRY	1 GAL			24" o.c.





RACHEL N. SALCH, PLA NO. 1438

FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE

IN

BLOOMFIELD
CONNECTICUT

PLANTING PLAN

NOVEMBER 14, 2025

REVISIONS:

PREPARED FOR:

THE FIRST CATHEDRAL
1151 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

SCALE: 1" = 30'

0 15 30 60 FEET

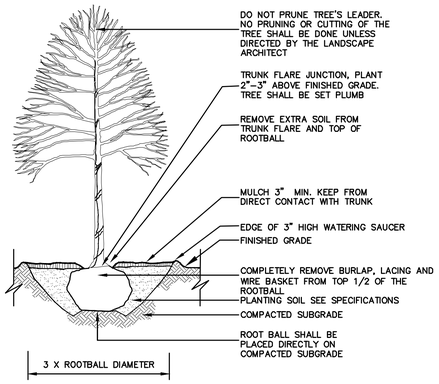
FILE: P:\010140300\CIVIL\DRAWINGS

DWG. NO: L-1.0

JOB. NO: 0101403.00

NOTES:

1. WATERING SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING.
2. PROVIDE 20 GALLON SLOW RELEASE WATERING BAG OR 36" TREE DIAPER (IF NOT INSTALLING IRRIGATION).
3. CONTRACTOR RESPONSIBLE FOR MAINTAINING TREES IN A PLUMB CONDITION.
4. PROVIDE BELOW GRADE TREE STABILIZATION AT ROOTBALL USING DEADMAN SYSTEM, ARBOR GUY, TREE STAPLE, OR APPROVED EQUAL. APPROVABLE TREE STABILIZATION SHALL NOT RESTRICT TREE OR ROOTBALL GROWTH.

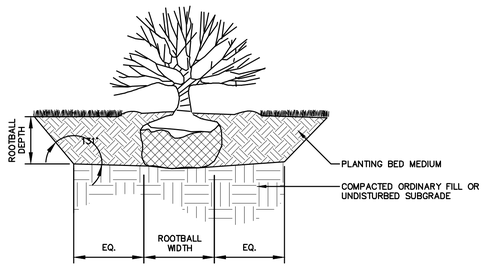


DECIDUOUS TREE PLANTING

SCALE: NONE

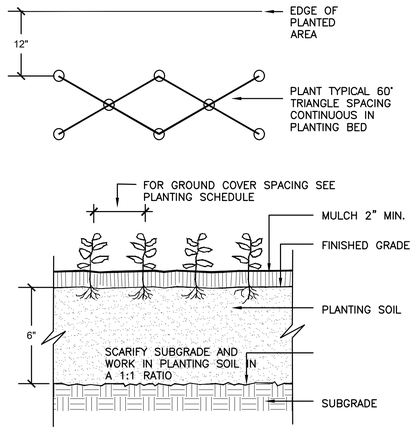
NOTES:

1. LOOSE OR CRACKED ROOT BALLS ARE UNACCEPTABLE.
2. EXCAVATE TO REQUIRED DEPTH AND DO NOT EXCAVATE BELOW ROOT BALL DEPTH.
3. SET SHRUBS PLUMB WITH ROOT FLARE 1" ABOVE FINISHED GRADE, BACKFILL WITH PLANTING MIX.
4. FLOOD WATERING SAUCER TWICE IN FIRST 24 HOURS AFTER PLANTING.
5. RAISE AND REPLANT ANY SHRUBS THAT SETTLE AFTER PLANTING & WATERING.
6. REMOVE 1/3 BURLAP PRIOR TO BACKFILL SYNTHETIC BURLAP UNACCEPTABLE
7. 2" DEPTH MULCH (KEEP MULCH 1" AWAY FROM SHRUB BASE) 3" HIGH EARTH WATERING SAUCER 1'-0" BEYOND ROOT BALL PLANTING MIXTURE.
8. FOR CONTAINERIZED PLANTS: REMOVE CONTAINER PRIOR TO PLANTING, SCARIFY ROOT BALL BELOW EDGE 1/2" DEEP IN FOUR LOCATIONS.



SHRUB PLANTING

SCALE: NONE

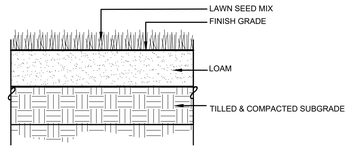


GROUNDCOVER PLANTING

SCALE: NONE

NOTES:

1. SEE SPECIFICATION FOR SEED MIX APPLICATION AND PLANTING MEDIUM PREPARATION.
2. WHERE HYDRO-SEEDING IS NOT EMPLOYED, LOAMED AREAS SHALL BE RAKED TO LOOSEN SOILS, SEED AND STARTER FERTILIZER SHALL BE SPREAD, AND THE ENTIRE SURFACE SHALL BE ROLLED TO BOND SEED TO SOIL SURFACE.

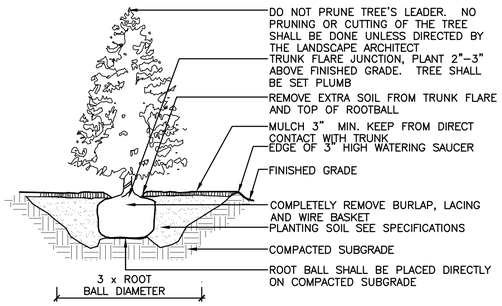


LAWN (LOAM AND SEED)

SCALE: NONE

NOTES:

1. WATERING SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING.
2. PROVIDE AND INSTALL 36" TREE DIAPER (IF NOT INSTALLING IRRIGATION).
3. CONTRACTOR RESPONSIBLE FOR MAINTAINING TREES IN A PLUMB CONDITION.
4. PROVIDE BELOW GRADE TREE STABILIZATION AT ROOTBALL USING DEADMAN SYSTEM, ARBOR GUY, TREE STAPLE, OR APPROVED EQUAL. APPROVABLE TREE STABILIZATION SHALL NOT RESTRICT TREE OR ROOTBALL GROWTH.



EVERGREEN TREE PLANTING

SCALE: NONE

RACHEL N. SALCH, PLA NO. 1438

FIRST CATHEDRAL AFFORDABLE HOUSING DEVELOPMENT

1151 BLUE HILLS AVENUE

IN

BLOOMFIELD
CONNECTICUT

LANDSCAPE DETAILS

NOVEMBER 14, 2025

REVISIONS:

PREPARED FOR:

THE FIRST CATHEDRAL
1151 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

BSC GROUP
BUILD | SUPPORT | CONNECT
180 Glastonbury Boulevard
Glastonbury, Connecticut
06033
860 652 8227

SCALE: AS SHOWN

FILE: P:\010140300\CIVIL\DRAWINGS

DWG. NO: L-2.0

JOB. NO: 0101403.00