



MEETING MINUTES

Meeting Date: January 20, 2011

Time: 7:00 – 8:45 pm

Location: Christ Episcopal Church
1412 Providence Rd
Charlotte, NC

Meeting Topic: **Third Public Meeting – Design Phase**
Cherokee/Scotland Storm Water Capital Improvement Project

Background and Overview

The aforementioned meeting was the third scheduled public meeting to outline the Cherokee/Scotland project, present the design of the proposed storm drainage improvements, discuss the real estate and construction phase, and answer citizen questions and concerns. Citizens representing nine (9) households attended the public meeting. Citizens signed-in and were provided meeting agendas. Several citizens discussed specific issues/concerns and questions with project team attendees prior to meeting commencement and were noted by the project team attendees.

Meeting Summary

Troy presented the meeting per the agenda outline, as provided below.

I. Welcome

- Troy welcomed the group and gave a brief overview of the meeting.
- Troy noted that this is the third public meeting for the Cherokee/Scotland Storm Water Capital Improvement Project. The first public meeting was held in October, 2005 and the second public meeting was held in May, 2008.

II. Introduction of Project Team

- Troy Eisenberger introduced himself (Project Manager), Harold Smith (Project Coordinator), and Doug Lozner (Watershed Area Manager) from the City Storm Water Services.
- Troy introduced Steve Frey from the City Real Estate Department.

- Troy introduced Andrew Ponder from Telics, and explained that Andrew would be involved with Steve Frey in the real estate process concerning easements requested from homeowners for this project.
- Troy introduced Chris Fleck, Emily Powell, and Jonathon Drazenovich from Dewberry and explained that Dewberry is the consultant engineering firm for the project.

III. Cherokee/Scotland Storm Drainage Improvement Project – Project Discussion

Troy explained that citizen feedback was one of the initial reasons for the Cherokee/Scotland Storm Drainage Improvement Project. Initial feedback was received from two primary sources; 336-Rain / 311 Service Requests and citizen questionnaires mailed out to the community at the beginning of the project.

Troy explained that the engineering consultants have modeled the study area and determined modeled flooding. Troy indicated that both the citizen input and the consultant’s modeled flooding have been utilized to determine flooding and drainage problems for this project.

IV. Project Phases

A. Planning Phase (Completed)

- Troy discussed the original project area, generally bounded by Scotland Avenue to the south and Cherokee Road to the north.
- Troy indicated that during the planning phase, the system was evaluated and analyzed. Based on a benefit to cost analysis of the proposed improvements, the northern section of the project area was removed from the proposed improvements (Fenton Place, Altondale Avenue, etc).

B. Design Phase (Current)

- Troy discussed that additional area was added to the Cherokee/Scotland project during the design phase along Biltmore Avenue and Scotland Avenue to help alleviate some flooding and drainage problems in this area.
- Troy indicated that the proposed improvements have been designed for this project and turned the meeting over to Dewberry, the engineering consultants, to explain the design.
- Chris Fleck indicated that analysis and evaluation has been performed to develop the proposed design improvements. The design includes the following:
 - Additional inlet locations
 - Extending pipe systems (example Huntley Place and Cherokee Road) and upsizing existing pipe systems
 - Modifying the location of existing pipe systems and proposed systems to avoid conflicts during construction and maintain trees
 - Proposed concrete pipe to be installed (existing pipe is typically concrete or steel)
 - Proposed box pipe, structures, and vaults to accommodate and minimize conflicts and meet drainage needs

- Piping sections of open drainage system
 - Utility adjustments of sanitary sewer, water, and gas lines, and electric power poles
- Chris noted that the majority of the proposed drainage system will be located within the roadway, excluding areas that run between roads (i.e. Bolling Road north towards Perrin Place).
- Chris summarized the proposed design improvements; approximately 10,000 linear feet of storm system (i.e. pipe and culverts), 400 – 500 linear feet of channel improvements, and relocation and adjustment of other utilities.

C. Construction (Future)

- Chris discussed expectations during the construction period. The Contractor will be required to maintain access for the residents to their homes, at all times. Traffic Control plans will be in place and roadways will have proper signage throughout construction.
- Chris indicated that the estimated construction phase for this project is 24 months.

Citizen Questions

- A citizen asked about whether they would have access across their driveway to the garage. Chris discussed that the Contractor will utilize steel plates to allow the residents access. Chris further indicated that while the residents will always have access in and out of their property, they may have to wait a few minutes while the Contractor moves material and/or equipment out of the way and places steel plates over the work area.
- A citizen asked for a time estimate for the construction along Scotland Avenue. Troy indicated the following estimated schedule.
 - Completion of design, real estate, and permitting – March, 2012 (Current timeline based on potential need for longer permitting process if Individual Permit is required.)
 - Construction Begin – Summer, 2012
 - Scotland Area (rough estimate) – Summer, 2013

Doug Lozner indicated that the Contractor will be given a maximum length of time for construction. Also, the Contractor may be given orders on where construction can take place and in what order, but that it is ultimately up to the Contractor to phase the project. Lastly, once construction has been bid and awarded the time frame will be more firm, as the Contractor will be providing this information to the City.

- A citizen asked what the order of the construction will be. Troy indicated that typically construction is performed downstream to upstream.
- A citizen wanted to clarify that the proposed storm pipe was concrete, and asked the size of the proposed pipe. Chris confirmed that the proposed storm pipe will be concrete and indicated that the size of the pipe varies from small circular pipe to large box pipe (i.e. 7' x 6'). Chris indicated that the pipe sizes are labeled on the exhibits.
- A citizen asked the lifespan of concrete pipe. Troy and Doug stated that the accepted industry standard is 50 years. Doug also indicated that a City Inspector will be on-site during construction to confirm the storm drainage system is installed correctly. If the storm pipe is not properly installed, the lifespan of the concrete pipe could be reduced.
- A citizen asked if the sanitary sewer and storm water improvements will be constructed at

the same time. Troy indicated that this depends on the Contractor.

C. Construction (Future) - Continued

- Steve Frey, from the City Real Estate Department introduced himself. Steve indicated that Andrew from Telics will be mailing packets to residents that will have construction on their property in the next 1 to 1 ½ weeks. These packets will include the plats, easements, etc. Andrew will be meeting with each affected property owner to discuss any questions that the resident may have, review the construction plans, and review brochures with photographs of typical storm structures that will be installed during construction. Andrew will be the direct resident contact, however Steve indicated his is always available as well.

Citizen Questions

- A citizen asked if they will need approval from their mortgage company if they are asked for an easement. Steve indicated that typically the City will ask residents to seriously consider donating the easement, as the project is being constructed to solve local flooding and drainage problems. If the resident decides to donate the easement to the City, the homeowner would not need to discuss this with their mortgage lender. However if the easement is not donated, the resident will need to discuss the easement with their mortgage lender. Doug also indicated that Andrew will be assisting the residents with these type of questions as well.
- A citizen asked if this project is ready to proceed, other than the permits. Troy indicated that yes, the project will be moving forward and once permits are in-place, bidding and construction will follow.
- A citizen asked the cost of the construction project. Troy indicated \$4.3 million, and noted this is an average cost for a City Storm Water project.
- Troy stated that the estimated 24 month construction period is the maximum length of time for the construction phase. Steve stated that in addition to the construction period will be a 12 month warranty period.

Citizen Questions

- A citizen stated that their property will be directly affected and asked if they need to contact Andrew. Steve indicated that affected residents will receive packets in the next 1 to 1 ½ weeks with information and Andrew will be getting in touch with the residents.
- A citizen asked what is the width of the proposed easements. Steve discussed that easement widths will vary per property and based on pipe size.

V. General Questions & “Break-Out” Groups

- Troy thanked the citizens for attending.
- Troy indicated that citizens could discuss questions with the project team attendees further, based on the “break-out” areas. The group reformed and the project was discussed per “break-out” area with project team attendees.

Citizen Discussions

- Resident at 1701 Scotland Avenue discussed flooding problems. Briar Creek Sanitary Sewer Rehabilitation Project was constructed 3 years ago and since the construction of the rehabilitation project the resident has flooded 13 times. The four years prior to the rehabilitation project, the resident did not experience flooding. Troy, Doug, and Emily discussed the proposed improvements along Biltmore Drive and Scotland Avenue to reduce stormwater flooding from localized storm events, however Briar Creek will still continue to flow as it does currently. The resident further noted that flooding occurs at his property as the channel backs up at the Providence Road crossing.
- Resident at 1418 Biltmore Drive indicated concern for a large tree in his front yard. The resident noted that he had two large trees in his front yard and one was recently removed to repair a water line. Emily reviewed the plans with the resident and confirmed that the most northern structure on Biltmore Drive is located in front of his property; the storm structure location was set on the opposite side of his road frontage in order to protect and save the large tree in question.
- Resident at 1417 Scotland Avenue was concerned about whether his driveway would be removed and replaced again (previous construction of culvert under driveway in the 1990s). Jonathon confirmed that the driveway would be maintained and indicated that there are no proposed construction activities planned on resident's property.
- Resident at 1311 Scotland Avenue discussed bypass system, utility relocations, depth of system, estimated construction methods, driveway removal and yard disturbance with Chris and Harold.
- Resident at 1311 Scotland Avenue discussed concerns for his existing wall. The resident expressed concerns of blasting, vibrations, etc. Project team reviewed the area with the resident. The box culvert bypass located in near proximity to the resident's wall shall be located as far into the road as possible, and will be a complex installation due to a number of factors, including surrounding utilities. Doug indicated that the Contractor will likely hire specialty companies, as necessary, to work in and around foundations. Also, the City inspector will be in the field during the entire construction process. Doug suggested resident may take photographs of the wall with date stamp, prior to construction begins. Chris confirmed that blasting will not be permitted on this project and suggested resident may survey the end of his wall before, during, and after construction if he so chooses.
- Residents at 1300 Scotland Avenue requested construction scheduling and timing information for project and specifically along lower section of Scotland. Chris, Troy, and Doug discussed contractor schedules TBD and 24 month is a maximum, construction is estimated to begin in 2012 (pending real estate, permits, etc). Doug advised resident to stay in contact with Troy, review website and flyers for further construction scheduling info in +/-1 year.
- Residents at 1300 Scotland Avenue had questions concerning the project. Emily discussed the bypass located along Scotland Avenue and noted they would not be receiving a packet, as there are no proposed easements on their property. Emily briefly reviewed the improvements at 1240 Scotland Avenue with residents (box culvert with new headwall as it relates to driveway and existing flowerbed, and sanitary sewer and water line replacements in this location). Emily briefly reviewed the improvements along Bolling Road (proposed storm system and proposed sanitary sewer lines) with the residents.

- Resident at 1126 Scotland Avenue owns/rents or has interest in several parcels in project area. Resident had questions about 1230 Scotland and would like to review 20yr flood elevation as previously reported and comparing to newly developed 50yr and 100yr flood elevation. Resident would like to meet with CMSWS ASAP to discuss potential construction at 1230 Scotland.
- Resident at 1126 Scotland Avenue asked several questions about flows of system upstream of headwall at Scotland Bypass (questions re: capacity, flows, rates, erosion, grading, and easements). Chris, Troy, and Doug provided responses as applicable.
- Resident at 1126 Scotland Avenue asked questions about Scotland Avenue near Providence Road regarding property he owns. Chris and Troy discussed proposed improvements in that area.
- Residents at 201 Huntley Place discussed their questions and concerns about existing flooding within their driveway. Jonathon and Andrew reviewed the construction plans and proposed improvements with residents, and discussed that the proposed improvements will alleviate the existing flooding within their driveway. Also, discussed proposed improvements in the area and the residents voiced approval of the proposed improvements on their property.

Cherokee / Scotland Capital Improvement Project: Storm Drainage Design - Bolling Road

Planning and Design by:
 **Dewberry**



Cherokee / Scotland Storm Water Capital Improvement Project

N Public Meeting
 Map Date: January, 2011

Scale: 1" = 20' Feet
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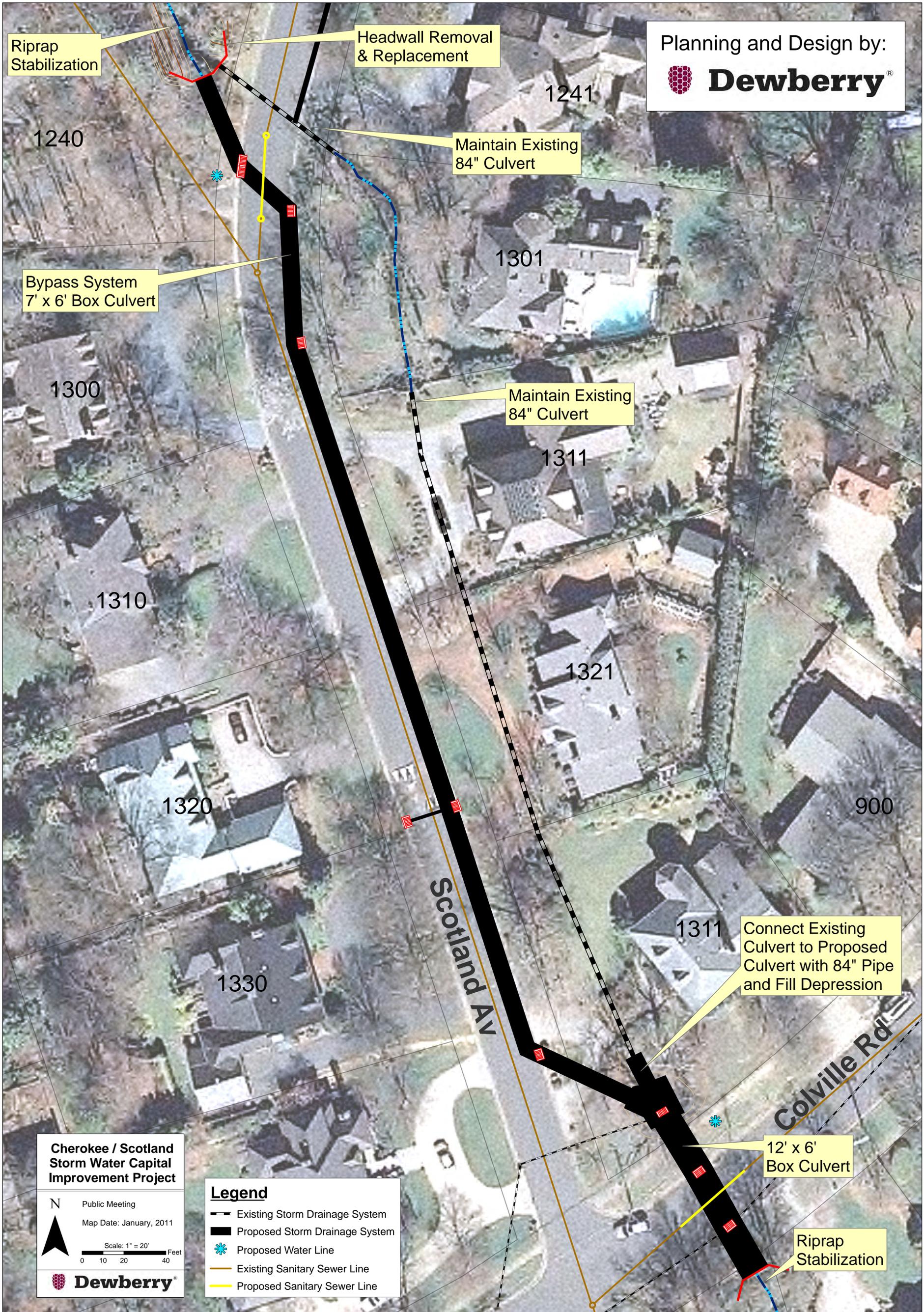
 **Dewberry**

Legend

-  Existing Storm Drainage System
-  Proposed Storm Drainage System
-  Proposed Water Line
-  Existing Sanitary Sewer Line
-  Proposed Sanitary Sewer Line

Cherokee / Scotland Capital Improvement Project: Storm Drainage Design - Scotland Avenue Bypass

Planning and Design by:
 **Dewberry**[®]



Cherokee / Scotland Storm Water Capital Improvement Project

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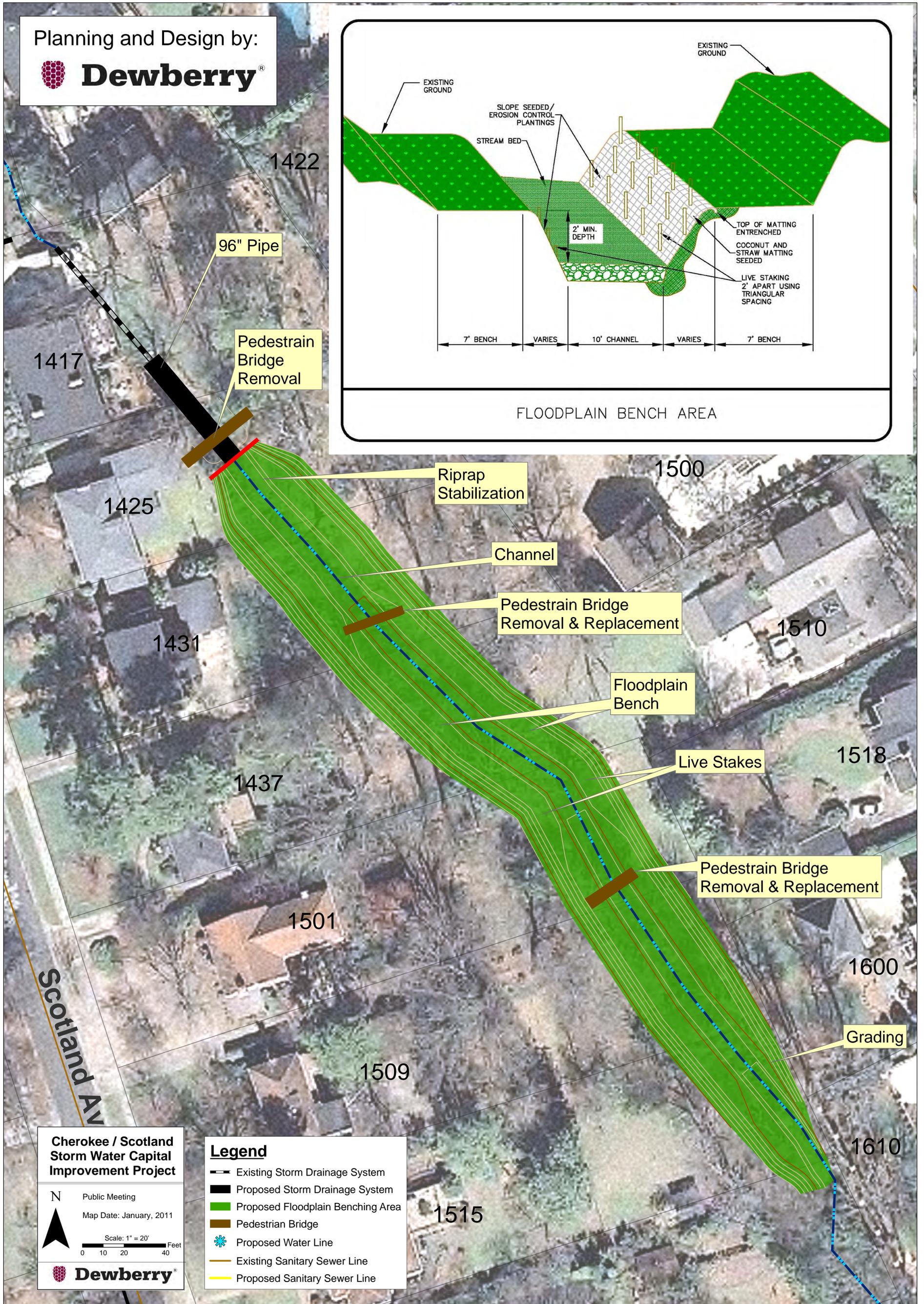
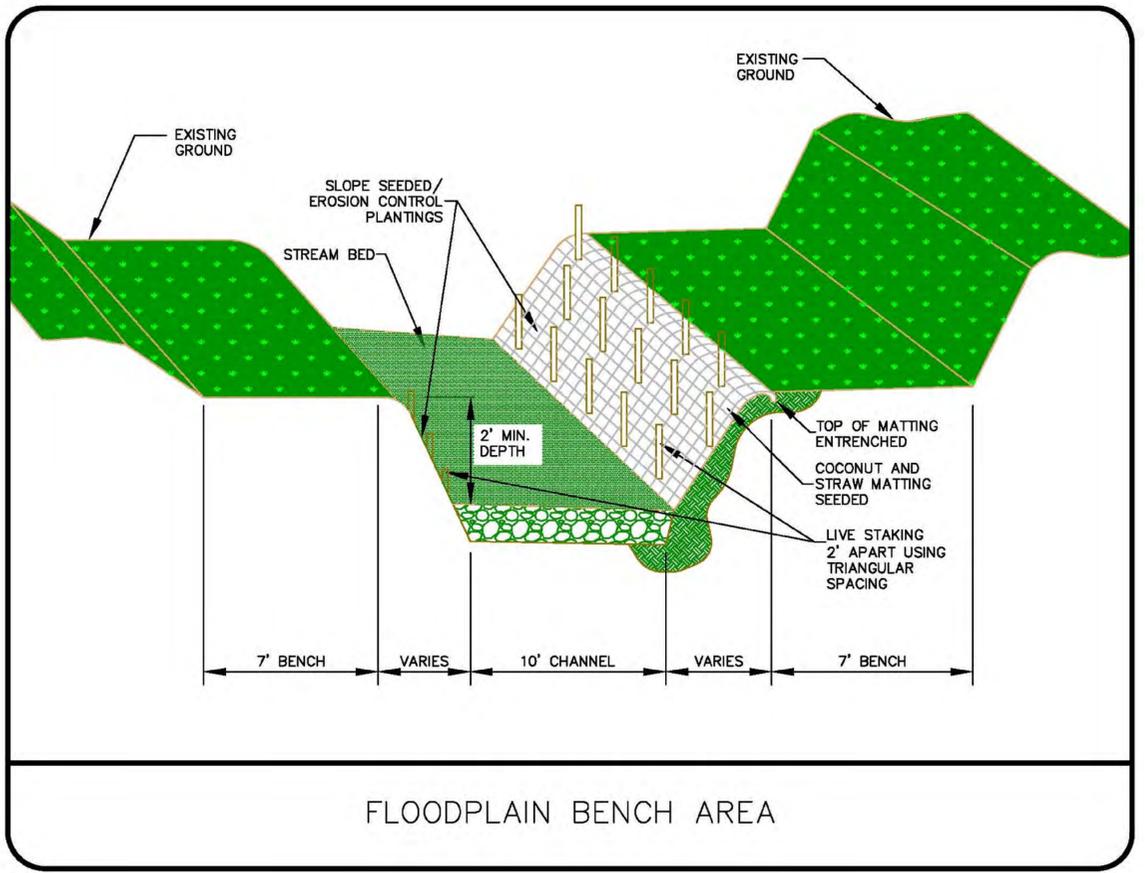
 **Dewberry**[®]

Legend

-  Existing Storm Drainage System
-  Proposed Storm Drainage System
-  Proposed Water Line
-  Existing Sanitary Sewer Line
-  Proposed Sanitary Sewer Line

Cherokee / Scotland Capital Improvement Project: Storm Drainage Design - Floodplain Bench Area

Planning and Design by:



Cherokee / Scotland
Storm Water Capital
Improvement Project

N
Public Meeting
Map Date: January, 2011
Scale: 1" = 20'
0 10 20 40 Feet



Legend

- Existing Storm Drainage System
- Proposed Storm Drainage System
- Proposed Floodplain Benching Area
- Pedestrian Bridge
- Proposed Water Line
- Existing Sanitary Sewer Line
- Proposed Sanitary Sewer Line

Cherokee / Scotland Capital Improvement Project: Storm Drainage Design

Planning and Design by:
Dewberry



- Legend**
- Existing Storm Drainage System
 - Proposed Storm Drainage System
 - Proposed Floodplain Benching Area
 - Proposed Water Line
 - Existing Sanitary Sewer Line
 - Proposed Sanitary Sewer Line

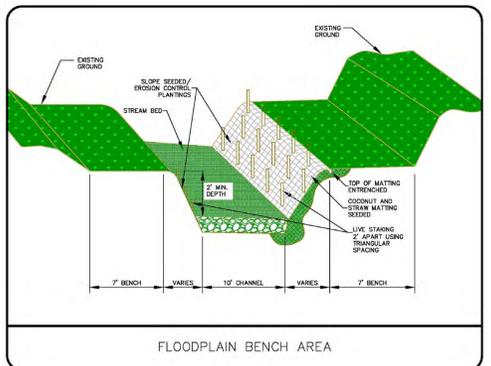
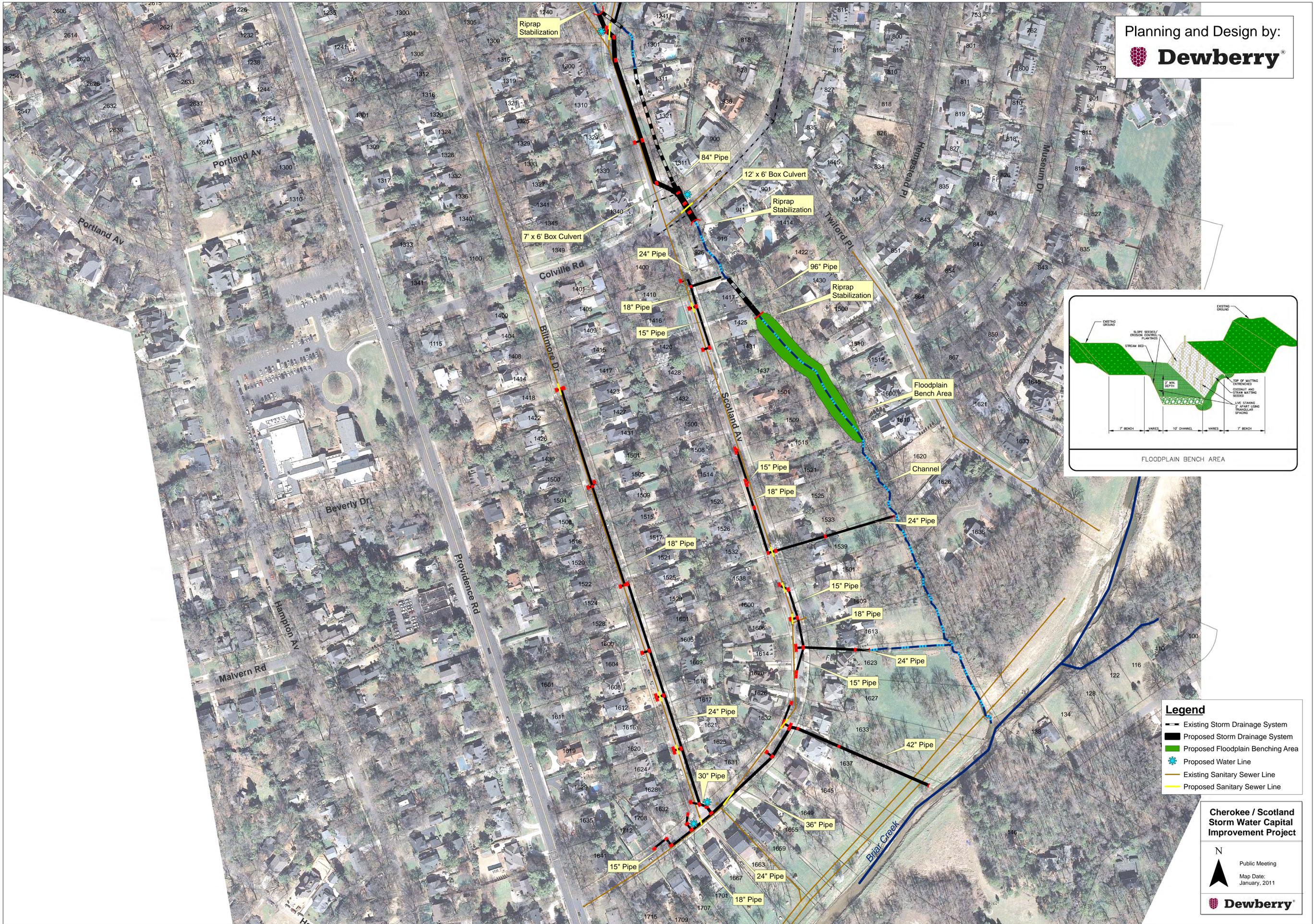
Cherokee / Scotland Storm Water Capital Improvement Project

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Cherokee / Scotland Capital Improvement Project: Storm Drainage Design

Planning and Design by:

- Legend**
-  Existing Storm Drainage System
 -  Proposed Storm Drainage System
 -  Proposed Floodplain Benching Area
 -  Proposed Water Line
 -  Existing Sanitary Sewer Line
 -  Proposed Sanitary Sewer Line

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