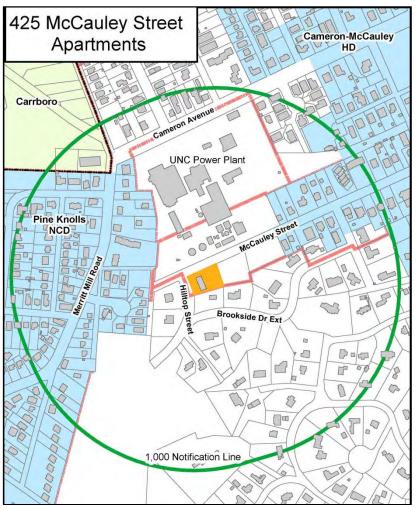
MEMORANDUM

- TO: Chapel Hill Planning Commission
- FROM: Gene Poveromo, Development Manager Judy Johnson, Principal Planner
- SUBJECT: Application for Site Plan Review –McCauley Street Apartments, 425 McCauley Street (Project # 15-024)
- DATE: August 13, 2015

STAFF RECOMMENDATION

Town staff recommends that the Planning Commission adopt Resolution A, approving the Site Plan Review application for construction of two new dwelling units and an addition to an existing building on a 0.52-acre site with conditions.



DESCRIPTION OF THE APPLICATION

This memorandum describes the Site Plan Review application for the proposed change of use from a duplex to a multi-family apartment. The Site Plan Review application requests approval to renovate and expand an existing duplex structure on the site and to construct two new dwelling units, for a total of four dwelling units, adding approximately 3,198 square feet of floor area, and eight parking spaces. The property is within the Residential-4 (R-4) zoning district. Multi-family dwelling units are a permitted use within this zoning district.

ATTACHMENTS

- Staff Analysis
 Resolution A Site Plan Review Approval
- 3. Resolution B Site Plan Review Denial
- 4. Applicant's materials

STAFF REPORT

SUBJECT: Application for Site Plan Review – McCauley Street Apartments, 425 McCauley Street (Project # 15-024)

DATE: August 13, 2015

INTRODUCTION

The Site Plan Review application, submitted by Coulter, Jewell, Thames, seeks approval for a change of use from a duplex to a multi-family apartment. The property is identified as Orange County Parcel Identifier Number 9788-14-5268 and is located at 425 McCauley Street.

PROCESS

Where a change of use to a different use group is proposed, a Site Plan Review is required. In this case, the existing duplex use is proposed to be developed as a multi-family apartment. We note that multi-family apartments are a permitted use in the Residential-4 (R-4) zoning district. The Land Use Management Ordinance necessitates the Planning Commission approval of a site plan.

Address	425 McCauley Street, Chapel Hill	
Owner	Ken Gorfkle	
Location Description	Southeast corner of the intersection of McCauley Street and Hilltop Street	
County Parcel Identifier Number	Orange County Parcel Identifier Number 9788-14-5268	
Property Description	Existing 2,038 square foot structure with two dwelling units	
Existing Zoning	Residential-4 (R-4)	
Proposed Land Use	Multi-family, four dwelling units, permitted in R-4 zoning district	
Surroundings		
General Development Pattern	Single-family and single-family with accessory dwellings development to the west, south, and east, and the University Co-Generation Plant to the north	
Current Site Conditions		
Lot Size	22,814 sq. ft	
Structures	Existing 2,038 square foot duplex unit	
Vegetation	Existing hardwoods and pines	
Access	Existing driveway on McCauley Street	
Utility Easements	None	
Existing Impervious Surface	4,519 s.f.	
Proposed Impervious Surface	8,234 s.f. total	
Resource Conservation District	N/A	

STAFF ANALYSIS OF THE APPLICATION

Watershed Protection District	Within the Watershed Protection District	
Jordan Riparian Buffer	N/A	
Wetlands	N/A	
Steep Slopes	N/A	

Site Plan Review: The Planning Commission has the authority to approve new developments if the proposal involves less than 20,000 square feet of floor area and less than 40,000 square feet of land disturbance, and if the proposed use is permitted in the zoning district. The application proposes a total of 5,236 square feet of floor area and a total of 25,011 square feet of land disturbance.

Proposed Development

The applicant is proposing to construct two new dwelling units and an expansion to the existing structure on the site for a total of four dwelling units, as well as create a parking area for eight vehicles.

Town staff has reviewed this application for compliance with the <u>Land Use Management</u> <u>Ordinance</u> and the <u>Design Manual</u> and offers the following evaluation:

Development Use and Intensity: The following table provides details regarding proposed development intensities.

Standard	Residential-4 (R-4) Zoning Requirements	Site Plan Review Application
Floor Area Maximum	5,247 s.f.	5,236 s.f.
Maximum Primary Height	34 ft.	32 ft.
Maximum Secondary Height	60 ft.	32 ft.
Minimum Solar Setback (northern property line)	9 ft.	9 ft.
Minimum Interior Setback	8 ft.	8 ft.
Minimum Street Setback	22 ft.	22 ft.
Maximum Impervious Surface	14,518 s.f. (70%)	8,234 s.f. (40%)
Minimum Vehicular Parking Spaces	8	8 (incl. 1 HC)
Maximum Vehicular Parking Spaces	10	
Bicycle Parking Spaces	1	1

Transportation

Access and Circulation: A single point of access to the site is proposed to McCauley Street. McCauley Street is currently a gravel road from approximately 300 feet east of the property to the western end of the street. The applicant is proposing to improve the cross-section of McCauley Street with a strip of pavement from the existing edge of pavement to the east to just west of the proposed driveway access point, approximately 350 linear feet. We have included this as a stipulation in Resolution A. The applicant has offered the street improvements in lieu of frontage improvements including sidewalk and curb and gutter. Town staff is in support of this improvement. *Vehicle Parking:* The Land Use Management Ordinance requires a minimum of 8 parking spaces and a maximum of 10 parking spaces for this development. The applicant is proposing 8 parking spaces. We have included this as a stipulation in Resolution A.

Bicycle Parking: The Land Use Management Ordinance specifies 1 bicycle parking space per four dwelling units. For this four unit development project, one bicycle space is required. The applicant is proposing one bicycle parking space and we have included this as a stipulation in Resolution A.

Recreation

Residential Recreation Requirements: With multi-family, there is a recreation space requirement. The Land Use Management Ordinance requires that the project provide 890 square feet of recreation space. The applicant is proposing to include a basketball area to fulfil this requirement.

Schools Adequate Facilities Ordinance

Because this project includes residential units, it will be necessary for the applicant to provide Certificates of Adequacy from the Chapel Hill-Carrboro City School district prior to the issuance of a Zoning Compliance Permit.

Landscape and Architecture

Landscape Buffers: The required and proposed buffers are as follows:

Location	Required Buffers	Proposed Buffer	
Eastern property line	10-foot wide Type 'B'	10-foot wide Type 'B'	
	Internal Buffer	Internal Buffer	
Northern property line	No requirement	Not provided	
(McCauley Street frontage)	No requirement	Not provided	
Western property line (Hilltop	No requirement	Not provided	
Street frontage)	No requirement	Not provided	
Southarn property line	10-foot wide Type 'B'	10-foot wide Type 'B'	
Southern property line	Internal Buffer	Internal Buffer	

Alternate Buffer: That unless the applicant obtains alternate bufferyard approval from the Community Design Commission, that a standard 10-foot wide Type B buffer be provided along the southern property line. It will be necessary for the Community Design Commission to make the determination that any proposed alternate buffer shall provide the same degree of visual and noise obstruction as the required buffer.

Parking Landscape: The application must meet the standards of Section 5.9 of the Land Use Management Ordinance including a five-foot landscape buffer strip between the parking facility and the building. We have included this as a stipulation in Resolution A.

Building Elevations and Lighting Plan: We recommend that a condition of approval require that the applicant obtain approval from the Community Design Commission for detailed building elevations and site lighting plans. We have included this as a stipulation in Resolution A.

Environment / Stormwater Management

Canopy Tree Requirements: The minimum tree canopy coverage requirement for a multi-family residential project is 30% of the lot. We have included this as a stipulation in Resolution A.

	Square Feet	Percentage of NLA
Net Land Area (NLA)	20,740	100%
Proposed Land Disturbance	20,587	99%
Proposed Impervious Surface	8,234	39.7%

Land Disturbance and Impervious Surface:

Stormwater Management Plan: The stormwater runoff from this site is proposed to be routed to bioretention area.

Prior to the issuance of a Zoning Compliance Permit, the applicant must submit a Stormwater Management Plan for review and approval by the Town Manager. This project must comply with the stormwater management requirements of the Land Use Management Ordinance to provide for 85% total suspended solids removal from the increased impervious area, retention for 2-5 days of the increased volume of stormwater runoff from the 2-year, 24-hour storm, and control of the stormwater runoff rate for the 1-year, 2-year, and 25-year storms. We have included a stipulation with detailed requirements in Resolution A.

Stormwater Facilities, Reservations, and Operations and Maintenance Plans: All stormwater facilities shall be within a reserved area or easement where no development would impede the facilities' proper functioning. We have included a stipulation with detailed requirements in Resolution A.

Prior to building occupancy, a Stormwater Operations and Maintenance Plan, signed by the owner, shall be provided for the proposed stormwater management facilities and submitted to the Stormwater Management Engineer for approval. A schedule of inspection and maintenance tasks shall be included. We have included a stipulation with detailed requirements in Resolution A.

Steep Slopes: The site is relatively flat, with a majority of the slopes less than ten percent.

Utilities and Services

Utilities: All permits and plan approvals will need to be approved by Orange Water and Sewer Authority, Duke Energy Company, PSNC Energy and other utility providers as appropriate. We have included stipulations with detailed requirements in Resolution A.

Fire/Emergency Access and Protection: A fire hydrant must be located within 500 feet of the proposed building, as required by the Land Use Management Ordinance. Approval of a fire flow report is required by the Town and OWASA, showing the Town's 1,500 gallons per minute standard can be met, prior to issuance of a Zoning Compliance Permit. We have included stipulations with detailed requirements in Resolution A.

The new building will need to have a sprinkler system installed as part of the construction unless the applicant can demonstrate sufficient water supply at the nearest fire hydrant for fire suppression. This is subject to approval of the Fire Marshal and included as a stipulation in Resolution A.

Refuse / Recycling Collection: The refuse and recycling service area is proposed to be located on the eastern side of the proposed parking lot on the site. The application is also showing a staging area on McCauley Street for the carts for pick-up. Refuse collection would be provided by the Town of Chapel Hill. We believe it will be necessary to provide storage for at least 4 roll carts and to screen the refuse area. The residents would be required to bring the carts to the street for collection. We have included stipulations with detailed requirements in Resolution A.

Accessibility Requirements	Prior to issuance of the Certificate of Occupancy the applicant shall provide the minimum required handicapped facilities and infrastructure required Americans with Disabilities codes and	
	standards.	
Engineering Construction	Prior to initiation of work in the public right-of-way, the applicant	
Permit	shall obtain an Engineering Construction Permit.	
Final Site Design	Prior to the issuance of a Zoning Compliance Permit, the final	
	design is subject to approval by the Town Manager.	
Landscape Protection,	We have included our standard stipulation regarding approval of a	
Screening and Shading	Landscape Plan, including screening of parking areas and	
Plan	buildings, a maintenance schedule and shading plan.	
Canopy Trees	The applicant has provided a landscape plan that proposes 60%	
	total post construction tree canopy to comply with the Town's	
	Tree Ordinance,	
Significant Tree Stands	N/A	
Building Elevation,	Prior to the issuance of a Zoning Compliance Permit, we	
Lighting Plans, and	recommend that detailed building elevations, lighting plans, and	
Alternative Buffer Plan	alternative buffer plans be approved by the Community Design Commission.	
Erosion Control	An Orange County Erosion Control permit is required when 20,000 s.f. or more is uncovered. This project proposes greater than 20,000 s.f., so an Erosion Control Permit is required.	
Lighting Plan	Prior to issuance of a Zoning Compliance Permit, the applicant	
	shall submit site plans and other required documents to satisfy the	
	lighting requirements of Section 5.11 of the Land Use	
	Management Ordinance, subject Town Manager approval.	
Utilities	Prior to issuance of a Zoning Compliance Permit, the applicant	
	shall provide documentation that all utility providers have	
	approved the final plans.	
Fire	Prior to the issuance of a Certificate of Occupancy, the applicant	
	shall be required to obtain Fire Marshal approval for required fire	

Additional Stipulations in Resolution A (see resolution for detailed requirements)

	safety features and infrastructure, such as fire hydrants and fire department connections, detailed fire access elements, fire protection devices, heavy-duty pavement and drive aisle design features. Prior to issuance of a Zoning Compliance Permit, design is subject to Fire Marshal approval.
Refuse Management	Refuse collection will be provided by the Town of Chapel Hill.
Solid Waste Management Plan	A Solid Waste Management Plan (SWMP) is required to be reviewed and approved by the Town of Chapel Hill and Orange County Solid Waste.
Schools Adequate Public Facilities Ordinance	That the developer provide the necessary Certificates of Adequacy of Public Schools prior to issuance of a Zoning Compliance Permit.
Construction Management Plan	Prior to issuance of a Zoning Compliance Permit, a Construction Management Plan shall be approved by the Town Manager.

CONCLUSION

We believe the proposal, with the conditions in Resolution A, meets the requirements of the applicable sections of the Land Use Management Ordinance and the Design Manual.

Resolution A would approve the application with conditions.

Resolution B would deny the application.

RECOMMENDATION

<u>Staff Recommendation</u>: We recommend that the Planning Commission adopt Resolution A, approving the McCauley Street Apartments Site Plan Review application with conditions.

Project Fact Sheet Requirements Checklist of Regulations and Standards

McCauley Street Apartments Site Plan Review Application

425 McCauley Street	STAFF EVALUATION ON R-4 ZONING		
	COMPLIANCE	NON-COMPLIANCE	
Use Permitted in R-4 Zone	✓		
Gross Land Area	1		
Minimum Lot Width	1		
Maximum Floor Area	1		
Impervious Surface Limits	1		
Maximum # Dwelling Units	1		
Minimum Recreation Space	1		
Minimum # Vehicular Parking Spaces	1		
Minimum # Bicycle Parking Spaces	1		
Minimum Setbacks (Street, Interior, Solar)	1		
Maximum Height Limits (Primary, Secondary)	1		
Minimum Landscape Bufferyards	✓ with approval of alternate buffers by CDC		
Land Disturbance Minimized	<i>√</i>		
Minimum Land Disturbance in the Resource Conservation District	N/A		
Steep Slopes Compliance	✓		
Stormwater Management (Including Jordan nutrient loading regulations)	1		
Parking lot screening	✓ (with conditions of approval)		
Public water and sewer	✓		
Adequate public schools facilities	1		

N/A = Not ApplicableThe chart shows that the application is compliant with the regulations.

A RESOLUTION APPROVING AN APPLICATION FOR A SITE PLAN REVIEW FOR MCCAULEY STREET APARTMENTS (PIN 9788-14-5268; PROJECT #15-024)

BE IT RESOLVED by the Planning Commission of the Town of Chapel Hill that it finds that the Site Plan Review application for McCauley Street Apartments, proposed by Coulter Jewell Thames, on property identified as Orange County Property Identifier Number 9788-14-5268, if developed according to the Site Plan dated March 25, 2015 and July 15, 2015 and the conditions listed below would comply with all required regulations and standards of the Land Use Management Ordinance and Design Manual.

This finding is conditioned on the following:

Stipulations Specific to the Development

1. <u>Construction Deadline</u>: That construction begins by August 13, 2016, to be completed by August 13, 2017.

Use: Multi-Family Apartments	
Floor Area Permitted	5,247 s.f.
Maximum Dwelling Units	4
Maximum Vehicular Parking Spaces	10
Minimum Bicycle Parking Spaces	1
Maximum Impervious Surface	8,234 s.f.
Maximum Land Disturbance	25,011 s.f.

2. <u>Land Use Intensity</u>: This Site Plan Review authorizes the following:

<u>Access</u>

3. <u>Accessibility Requirements</u>: That prior to issuance of a Certificate of Occupancy, the applicant shall provide the minimum required handicapped parking spaces and design all handicapped parking spaces, ramps, and crosswalks, and associated infrastructure according to Americans with Disabilities Act standards, North Carolina Building Code, American National Standards Institute (ANSI) Code, and Town standard.

Transportation

4. <u>McCauley Street Improvements</u>: Prior to issuance of a Certificate of Occupancy, the applicant shall improve the cross-section of McCauley Street from the existing edge of pavement to the east to a point west of the proposed driveway access with a pavement strip with the design to be reviewed and approved by the Town Manager prior to issuance of a Zoning Compliance Permit.

- 5. <u>Parking Lot/Drive Aisles Town Standards</u>: Prior to a Certificate of Occupancy, the applicant shall construct the parking lot and drive aisles to Town standard, design subject to Town Manager approval prior to issuance of a Zoning Compliance Permit.
- 6. <u>Bicycle Access and Parking</u>: That prior to the issuance of a Zoning Compliance Permit, the applicant shall provide dimensioned details for a minimum of one bicycle parking space that comply with Town parking standards. The bicycle parking design must comply with the spring 2010 Association of Pedestrian and Bicycle Professionals Guidelines, and the bicycle parking standards required by the Town Design Manual.

Landscaping and Elevations

7. <u>Landscape Buffers</u>: That the Landscape Planting Plan demonstrate compliance with the required buffers as described in the chart below:

Location	Required Buffers
Eastern property line	10-foot wide Type 'B' Internal
	Buffer
Southern property line	10-foot wide Type 'B' Internal
	Buffer

- 8. <u>Alternate Buffers</u>: That unless the applicant obtains alternate bufferyard approval from the Community Design Commission, that the standard buffers be provided continuously along all property lines. It will be necessary for the Community Design Commission to make the determination that any proposed alternative buffer shall provide the same degree of visual and noise obstruction as the required buffer.
- 9. <u>Landscape Protection</u>: That a detailed Landscape Protection Plan shall be approved prior to issuance of a Zoning Compliance Permit. The plan shall include critical root zones of all rare and specimen trees, and clearly indicate names and species. The Plan shall also include details showing tree protection fencing around construction limits, areas designated for construction parking, materials staging/storage areas, and shall include Town standard landscaping protection notes. The plan shall also indicate new trees to be planted, a minimum of 15 feet, outside the maintenance corridor for the overhead utilities.
- 10. <u>Tree Protection Fencing Prior to Construction</u>: Prior to issuance of a Zoning Compliance Permit the applicant shall provide a note on the Final Plans indicating that tree protection fencing will be installed prior to land-disturbing activity on the site.
- 11. <u>Canopy Tree Coverage</u>: That the applicant meets the minimum 30% tree canopy coverage requirement of the entire site prior to issuance of a Zoning Compliance Permit.
- 12. <u>Landscape Planting Plan</u>: Prior to issuance of a Zoning Compliance Permit the applicant shall provide a detailed Landscape Planting Plan with a detailed planting list, subject to

Town Manager approval. The Plan shall include canopy trees to shade at least 40% of the parking lot as well as the required parking landscape requirements.

Recreation

13. <u>Recreation Space</u>: That the developer shall provide either active recreation space or a payment-in-lieu of recreation space or a combination of the two. The amount of active recreation area required is 890 square feet. The final design, size, type, and changes to proposed active recreation space facilities are subject to Town Manager approval.

Stormwater Management

- 14. <u>Stormwater Management Plan:</u> That this project must comply with the *Section 5.4 Stormwater Management* of the Land Use Management Ordinance.
- 15. Jordan Stormwater Management for New Development: That if the total disturbed area exceeds 0.5 acres, this project must comply with *Section 5.19 Jordan Watershed Stormwater Management for New Development* of the Land Use Management Ordinance to provide the required reductions in nitrogen and phosphorus loads for new development and redevelopment projects.
- 16. <u>Erosion Control Inspections</u>: That, in addition to the requirement during construction for inspection after every rainfall, the applicant shall inspect the erosion and sediment control devices and offsite roadways daily, make any necessary repairs or adjustments to the devices, remove deposition of wet or dry silt on adjacent roadways and maintain inspection logs documenting the daily inspections and any necessary repairs.
- 17. <u>Phasing Plan</u>: Prior to issuance of a Zoning Compliance Permit, the applicant shall obtain approval of a Phasing Plan that provides details of which improvements are to be constructed during each phase. The phasing plan shall detail public improvements and stormwater management structures will be completed in each phase prior to requesting a Certificate of Occupancy. Construction for any phase may not begin until all public improvements in previous phases are complete, with a note to this effect on the final plans and plats.
- 18. Jordan Surety: That if the total disturbed area exceeds 0.5 acres, prior to issuance of a Certificate of Occupancy, the owner shall post a maintenance bond or other surety instrument satisfactory to the Town Manager, in an amount equal to one hundred twenty-five (125) percent of the construction cost of each stormwater management facility to assure maintenance, repair, or reconstruction necessary for adequate performance of the stormwater management facility, or establish a stormwater maintenance (sinking fund) budget and escrow account in accordance with the requirements of Section 5.19 of the Land Use Management Ordinance.
- 19. <u>Erosion Control Bond</u>: If one acre or more is uncovered by land-disturbing activities for this project, then a performance guarantee in accordance with Section 5-97.1 Bonds of the Town

Code of Ordinances shall be required prior to final authorization to begin land-disturbing activities.

- 20. <u>As-Built Plans</u>: That prior to the issuance of a Certificate of Occupancy, the applicant shall provide certified as-built plans for land disturbance, building footprints, parking lots, street improvements, storm drainage systems and stormwater management structures, and all other impervious surfaces, and a tally of the constructed impervious area. The as-built plans should be in DXF binary format using State plane coordinates and NAVD 88.
- 21. <u>P.E. Certification</u>: That prior to the issuance of a Certificate of Occupancy for any phase, the applicant shall provide a certification, signed and sealed by a North Carolina-licensed Professional Engineer, that the stormwater management facilities are constructed in accordance with the approved plans and specifications.

Water, Sewer, and Other Utilities

- 22. <u>Detailed Construction Drawings</u>: Detailed construction drawings shall be submitted to OWASA for review and approval prior to issuance of a Zoning Compliance Permit.
- 23. <u>Utility/Lighting Plan Approval</u>: The final utility/lighting plan shall be approved by the Orange Water and Sewer Authority, Duke Energy Company, Time Warner, AT&T or other applicable utility providers and the Town Manager before issuance of a Zoning Compliance Permit.
- 24. <u>Lighting Plan</u>: That prior to the issuance of a Zoning Compliance Permit, the applicant shall submit site plans and other required documents to satisfy the lighting requirements in Section 5.11 of the Land Use Management Ordinance, including submission of a lighting plan sealed by a Professional Engineer, to be reviewed and approved by the Town Manager. The lighting plan shall also address the requirements of Section 5.11.5 of the Land Use Management Ordinance.

Fire Safety

- 25. <u>Hydrants Active</u>: It will be necessary to have active fire hydrant coverage, acceptable to the Fire Department, for any areas where combustible construction materials will be stored or installed, prior to having such materials delivered to the site. All required fire hydrants must be installed, active, and accessible for the Fire Department use prior to the arrival of combustible materials on site. Fire protection systems shall be installed according to Town Ordinance, the NC Fire Code, and NFPA 13.
- 26. <u>Sprinkler System</u>: Prior to issuance of a Building Permit the applicant must submit plans for approval by the Town to provide a sprinkler system in accordance with NFPA 13D and/or the North Carolina Building Code for the project. The sprinkler system must be installed prior to a Certificate of Occupancy; or subject to approval of the Fire Marshall and prior to a Building Permit, the applicant must demonstrate there is sufficient water supply at the nearest fire hydrant for fire suppression.

- 27. <u>Fire Hydrant and FDC Locations</u>: That the Final Plans indicate the locations of existing and proposed fire hydrants and Fire Department Connections (FDC). Fire Department. Hydrant spacing shall comply with the Town Design Manual. Design shall be reviewed and approved by the Town Manager prior to issuance of a Zoning Compliance Permit.
- 28. <u>Firefighting Access During Construction</u>: During demolition and/or construction, all aspects of Chapter 14 of the NC Fire Prevention shall be followed. The owner/developer shall designate one person to be the Fire Prevention Program Superintendent who shall be responsible for enforcing Chapter 14 of the NCFPC and the on-site fire prevention program and ensure that it is carried out through completion of the project.
- 29. <u>Fire Flow Report</u>: Prior to issuance of a Zoning Compliance Permit, the applicant shall submit a fire flow report sealed by an engineer licensed in North Carolina certifying that the water supply available at the nearest fire hydrant(s) will meet the Town's fire flow requirements, 20 psi residual pressure. An Orange Water and Sewer flow test must be included with the report.
- 30. <u>Fire Access</u>: Any and all roads, driveways or dedicated fire lanes used for fire department access shall be all-weather and designed to support to carry the imposed load of fire apparatus weighing at least 75,000 lbs. Fire access roads shall have a minimum width of 20 feet with overhead clearance of 13ft. 6 in for structures not exceeding 30 feet in height and shall provide access to within 150 feet of all exterior portions of the building. Proximity to the building for aerial apparatus shall have at least one of the required access routes be located within 15 feet and a maximum of 30 feet from the building and shall be positioned parallel to one entire side of the building.

Fencing around projects shall include access gates with a 20 foot swing or slide motion. Any areas which will be inaccessible for firefighting or rescue operations shall be noted. Emergency access designation for apparatus shall be provided. FDC 's shall not be obstructed by landscaping or hindered by parking spaces.

Solid Waste Management and Recycling

- 31. <u>Solid Waste Management Plan</u>: That prior to issuance of a Zoning Compliance Permit a Solid Waste Management Plan for managing solid waste shall be approved by Orange County Solid Waste Management and the Town Manager. The plan shall include dimensioned, scaled details of any proposed refuse collection areas, associated screening, gate opening areas, and protective bollards, if applicable.
- 32. <u>Refuse Area</u>: That the refuse area shall provide storage for at least four roll carts for garbage and four roll carts for recycling. That the refuse storage area shall be screened from adjacent properties and the public right-of-way.

State and Federal Approvals

33. <u>State or Federal Approvals</u>: That prior to issuance of a Zoning Compliance Permit, the applicant shall obtain approval of any required State or federal permits or encroachment agreements from the Town Manager and NCDOT and/or OWASA, where necessary.

Miscellaneous

- 34. <u>Addressing</u>: Prior to a Certificate of Occupancy, the applicant shall obtain assignment of a street address, where necessary, from the Engineering and Design Services Division.
- 35. <u>Construction Management Plan</u>: That a Construction Management Plan, be approved by the Town Manager prior to issuance of a Zoning Compliance Permit. The construction management plan shall: 1) indicate how construction vehicle traffic will be managed, 2) identify parking areas for on-site construction workers including plans to prohibit parking in residential neighborhoods, 3) indicate construction staging and material storage areas, 4) identify construction trailers and other associated temporary construction management structures, and 5) indicate how the project construction will comply with the Town's Noise Ordinance.
- 36. <u>Traffic and Pedestrian Control Plan</u>: That the applicant shall provide a Work Zone Traffic Control Plan for movement of motorized and non-motorized vehicles on any public street that will be disrupted during construction. The plan must include a pedestrian management plan indicating how pedestrian movements will be safely maintained. The plan must be reviewed and approved by the Town Manager prior to the issuance of a Zoning Compliance Permit. At least 5 working days prior to any proposed lane or street closure the applicant must apply to the Town Manager for a lane or street closure permit.
- 37. <u>Community Design Commission Approval</u>: That the developer obtain Community Design Commission approval of the alternative landscape buffers, building elevations and lighting, including the location and screening of all HVAC/Air Handling Units and refuse/recycling facility for this project, prior to issuance of a Zoning Compliance Permit. The Commission shall approve a lighting plan, sealed by a Professional Engineer, which meets lighting requirements of Section 5.11 of the Land Use Management Ordinance, taking additional care during review to ensure that the proposed lighting plan will minimize 1) upward light pollution and 2) offsite spillage of light.
- 38. <u>Construction Sign Required</u>: That the applicant shall post a construction sign at the development site that lists the property owner's representative and telephone number, the contractor's representative and telephone number, and a telephone number for regulatory information at the time of issuance of a Building Permit, prior to the commencement of any land disturbing activities. The construction sign may have a maximum of 32 square feet of display area and maximum height of 8 feet. (§5.14.3(h) of LUMO). The sign shall be non-illuminated, and shall consist of light letters on a dark background. That prior to the issuance of a Zoning Compliance Permit a detail of the sign shall be reviewed and approved by the Town Manager.

- 39. <u>Open Burning</u>: That the open burning of trees, limbs, stumps, and construction debris associated with this development is prohibited.
- 40. <u>Detailed Plans</u>: That prior to the issuance of a Zoning Compliance Permit final detailed site plans, grading plans, utility/lighting plans, stormwater management plans (with hydrologic calculations), landscape plans, and landscape maintenance plans shall be approved by the Town Manager. Such plans shall conform to plans approved by this application and demonstrate compliance with all applicable regulations and the design standards of the Land Use Management Ordinance and the Design Manual.
- 41. <u>Continued Validity</u>: That continued validity and effectiveness of this approval shall be expressly conditioned on the continued compliance with the plans and conditions listed above.
- 42. <u>Non-Severability</u>: That if any of the above conditions is held to be invalid, approval in its entirety shall be void.

BE IT FURTHER RESOLVED that the Planning Commission hereby approves the application for a Site Plan Review for McCauley Street Apartments in accordance with the plans and conditions listed above.

This the 13th day of August, 2015.

A RESOLUTION DENYING AN APPLICATION FOR A SITE PLAN REVIEW FOR MCCAULEY STREET APARTMENTS (PIN 9788-14-5268; PROJECT #15-024)

BE IT RESOLVED by the Planning Commission of the Town of Chapel Hill that it finds that the Site Plan Review application for McCauley Street Apartments, proposed by Coulter Jewell Thames, on property identified as Orange County Property Identifier Number 9788-14-5268, if developed according to the Site Plan dated March 25, 2015 and July 15, 2015 and the conditions listed below would not comply with the provisions of the Chapel Hill Land Use Management Ordinance and Design Manual:

(INSERT REASON FOR DENIAL)

BE IT FURTHER RESOLVED that the Planning Commission hereby denies the Site Plan Review application for McCauley Street Apartments, located at 425 McCauley Street.

This the 13th day of August, 2015.



MAIN OFFICE 111 WEST MAIN STREET DURHAM, NC 27701 p919.682.0368 f919.688.5646

Planning for the Future

March 25, 2015

Town of Chapel Hill Planning Department 405 Martin Luther King Jr. Blvd. Chapel Hill, NC 27514

Reference: Site Plan Application (ZCP) McCauley Street Apartments 425 McCauley Street Chapel Hill, NC 27517 Pin: 9788145268

Judy,

Enclosed please find the Site Plan Application for the McCauley Street Apartment project. The project is located at the intersection of McCauley Street and Hilltop Street with an address of 425 McCauley Street, Chapel Hill, NC 27517 (PIN: 9788145268). The 0.5 acre site is currently zoned R-4, medium density residential.

Site Plan (ZCP) - Project Narrative:

Developer is seeking approval of a small multi-family development as represented on the attached Site Plans.

Project scope includes renovation and additions to the existing 1 story, 2,038 square foot duplex located on the above noted property. Two separate additions (1-two bedroom addition and 1-one bedroom addition) are proposed on the eastern side of the existing duplex. Both additions will increase the total square footage of this duplex to a new total of 2,662 square feet.

Directly east of the existing duplex the developer is proposing to add a new two story duplex as shown on the attached plans. The new duplex will be 2 stories and 2,584 total square feet.

Associated with the renovation/additions and new duplex building the developer is proposing necessary site related improvements as required by the Town of Chapel Hill, OWASA and Orange County.

SITE PLAN REVIEW APPLICATION



TOWN OF CHAPEL HILL Planning Department

405 Martin Luther King Jr. Blvd phone (919) 968-2728 fax (919) 969-2014 www.townofchapelhill.org

Parcel Identifier Number (PIN):		Date:
Section A: Project Information	ion	
Project Name:		
Property Address:		Zip Code:
Use Groups (A, B, and/or C):	Existing Zonin	g District:
Project Description:		
Section B: Applicant, Owner	r and/or Contract Purchaser In	formation
Applicant Information (to wh Name:	om correspondence will be mailed	d)
Address:		
City:	State:	Zip Code:
Phone:	Email:	
The undersigned applicant he this application is true and acc	-	nis knowledge and belief, all information supplied with
Signature:		Date:
Owner/Contract Purchaser In	formation:	
Owner	Cont	tract Purchaser
Name:		
Address:		
City:	State:	Zip Code:
Phone:	Email:	
The undersigned applicant he this application is true and action	-	nis knowledge and belief, all information supplied with
Signature:		Date:
Revised 02.04.14		Parcel Identifier Number (PIN):



TOWN OF CHAPEL HILL

Planning Department

Section A: Project Information

Application type:	Date:
Project Name:	
Use Type: (check/list all that apply)	
Office/Institutional Residential Mixed-Use	Other:
Overlay District : (check all those that apply) Historic District Neighborhood Conservation District 	Airport Hazard Zone
Section B: Land Area	

Net Land Area (NLA): Area within zoning lot boundaries				sq. ft.
Choose one, or both, of the following (a or b,) not	a) Credited Street Area (total adjacent frontage) x ½ width of public right- of-way	CSA=		sq. ft.
to exceed 10% of NLA b) Credited Permanent Open Space (total adjacent frontage) x ½ public or dedicated open space		COS=		sq. ft.
TOTAL: NLA + CSA and/or (TOTAL: NLA + CSA and/or COS = Gross Land Area (not to exceed NLA + 10%)			sq. ft.

Section C: Special Protection Areas, Land Disturbance, and Impervious Area

Special Protection Areas:	(check all those that apply)
----------------------------------	------------------------------

Jordan Buffer

er Resource Conservation District

100 Year Floodplain

Watershed Protection District

Land Disturbance	Total (sq ft)
Area of Land Disturbance	
(Includes: Footprint of proposed activity plus work area envelope, staging area for materials, access/equipment paths, all grading, including off-site clearing)	
Area of Land Disturbance within RCD	
Area of Land Disturbance within Jordan Buffer	

Impervious Areas	Existing (sq ft)	Demolition (sq ft)	Proposed (sq ft)	Total (sq ft)
Impervious Surface Area (ISA)				
Impervious Surface Ratio: Percent Impervious				
Surface Area of Gross Land Area (ISA/GLA) %				
If located in Watershed Protection District,				
% of impervious surface on 7/1/1993				

Page 2 of 10 Parcel Identifier Number (PIN):____



PROJECT FACT SHEET TOWN OF CHAPEL HILL Planning Department

Section D: Dimensions

Dimensional Unit (sq ft)	Existing (sq ft)	Demolition (sq ft)	Proposed (sq ft)	Total (sq ft)
Number of Buildings				
Number of Floors				
Recreational Space				

Residential Space					
Dimensional Unit (sq ft)	Existing (sq ft)	Demolition (sq ft)	Proposed (sq ft)	Total (sq ft)	
Floor Area (all floors – heated and unheated)					
Total Square Footage of All Units					
Total Square Footage of Affordable Units					
Total Residential Density					
Number of Dwelling Units					
Number of Affordable Dwelling Units					
Number of Single Bedroom Units					
Number of Two Bedroom Units					
Number of Three Bedroom Units					

	Non-Residential Space (Gross Floor Area in Square Feet)					
Use Type	Existing	Proposed	Uses	Existing	Proposed	
Commercial	1					
Restaurant			# of Seats			
Government						
Institutional						
Medical						
Office						
Hotel			# of Rooms			
Industrial						
Place of Worship	1		# of Seats			
Other						

	Dimensional Requirements		Existing	Proposed
	Street			
Setbacks (minimum)	Interior (neighboring property lines)			
(minimum)	Solar (northern property line)			
Height	Primary			
(maximum)	Secondary			
Streets	Frontages			
Streets	Widths			

Page **3** of **10** Parcel Identifier Number (PIN):_____



PROJECT FACT SHEET

TOWN OF CHAPEL HILL

Planning Department

Section F: Adjoining or Connecting Streets and Sidewalks

(Note: For approval of proposed street names, contact the Engineering Department)							
Street Name	et Name Right-of-way Pavement Number of Existing Existing Width Width Lanes Sidewalk* curb/gutte						
				Yes	Yes		
				Yes	Yes		

List Proposed Points of Access (Ex: Number, Street Name): 1, McCauley Street

*If existing sidewalks do not exist and the applicant is adding sidewalks, please provide the following information:

Sidewalk Information Street Names Dimensions Surface Handicapped Ramps					
			Yes No N/A		
			Yes No N/A		

Section G: Parking Information

Parking Spaces	Minimum	Maximum	Proposed
Regular Spaces			
Handicap Spaces			
Total Spaces			
Loading Spaces			
Bicycle Spaces			
Surface Type			

Section H: Landscape Buffers

Location (North, South, Street, Etc.)	Minimum Width	Proposed Width	Alternate Buffer	Modify Buffer
			Yes	Yes

Page **4** of **10** Parcel Identifier Number (PIN):_____



Section I: Land Use Intensity

Existing Zoning District: R-4, Medium Density Residential **Proposed Zoning Change** (*if any*): N/A

Nota, Defar to Table 2.9.1 (Dimensional	Matrix) in the Land Lle	- Managamant Ordinana	a far halp completing this table
Note: Refer to Table 3.8-1 (Dimensional	width x in the Lund Ose	e iviuliuyellient Orumunci	e joi neip completing this tuble.

Zo	oning – Area – Ra	tio	Impervious Surface ThresholdsLow Density Residential (0.24)High Density Residential (0.50)Non- Residential (0.70)		Minimum and Maximum Limitations		
Zoning District(s)	Floor Area Ratio (FAR)	Recreation Space Ratio (RSR)			Maximum Floor Area (MFA) = FAR x GLA	Minimum Recreation Space (MSR) = RSR x GLA	
TOTAL							
RCD Streamside		0.01					
RCD Managed		0.019					
RCD Upland							

Section J: Utility Service

Check all that apply				
Water	🗌 OWASA	Individual Well	Community Well	Other
Sewer	🗌 OWASA	Individual Septic Tank	Community Package Plant	Other
Electrical	Underground	Above Ground		
Telephone	Underground	Above Ground		
Solid Waste	🗌 Town	Private		

Page **5** of **10** Parcel Identifier Number (PIN):_____



The following must accompany your application. Failure to do so will result in your application being considered incomplete. For assistance with this application, please contact the Chapel Hill Planning Department (Planning) at (919)968-2728 or at planning@townofchapelhill.org. For detailed information, please refer to the Description of Detailed Information handout.

Amount Paid \$ Application fee (including Engineering Review fee) (refer to fee schedule) Х Pre-application meeting – with appropriate staff Х Digital Files - provide digital files of all plans and documents Х **Recorded Plat or Deed of Property** Х **Project Fact Sheet** Х Traffic Impact Statement – completed by Town's consultant (or exemption) N/A Mailing list of owners of property within 1,000 feet perimeter of subject property (see GIS notification tool) Х Mailing fee for above mailing list (mailing fee is double due to 2 mailing) Amount Paid \$ Х Written Narrative describing the proposal Х Resource Conservation District, Floodplain, & Jordan Buffers Determination - necessary for all submittals Х N/A Jurisdictional Wetland Determination - if applicable Resource Conservation District Encroachment Exemption or Variance (determined by Planning) N/A Jordan Buffer Authorization Certificate or Mitigation Plan Approval (determined by Planning) N/A Reduced Site Plan Set (reduced to 8.5"x11") Х

Stormwater Impact Statement (1 copy to be submitted)

- a) Written narrative describing existing & proposed conditions, anticipated stormwater impacts and management structures and strategies to mitigate impacts
- b) Description of land uses and area (in square footage)
- c) Existing and proposed Impervious surface area in square feet for all subareas and project area
- d) Ground cover and uses information
- e) Soil information (classification, infiltration rates, depth to groundwater and bedrock)
- f) Time of concentration calculations and assumptions
- g) Topography (2-foot contours)
- h) Pertinent on-site and off-site drainage conditions
- i) Upstream and/or downstream volumes
- j) Discharges and velocities
- k) Backwater elevations and effects on existing drainage conveyance facilities
- I) Location of jurisdictional wetlands and regulatory FEMA Special Flood Hazard Areas
- m) Water quality volume calculations
- n) Drainage areas and sub-areas delineated
- o) Peak discharge calculations and rates (1, 2, and 25-year storms)
- p) Hydrographs for pre- & post-development without mitigation, post-development with mitigation
- q) Volume calculations and documentation of retention for 2-year storm
- r) 85% TSS removal for post-development stormwater run-off

Page **6** of **10**

Revised 02.04.14

Parcel Identifier Number (PIN):_____



- s) Nutrient loading calculations
- t) BMP sizing calculations
- u) Pipe sizing calculations and schedule (include HGL & EGL calculations and profiles)

Plan Sets (10 copies to be submitted no larger than 24"x36")

Plans should be legible and clearly drawn. All plan sets sheets should include the following:

- Project Name
- Legend
- Labels
- North Arrow (North oriented toward top of page)
- Property Boundaries with bearing and distances
- Scale (Engineering), denoted graphically and numerically
- Setbacks
- Streams, RCD Boundary, Jordan Riparian Buffer Boundary, Floodplain, and Wetlands Boundary, where applicable
- Revision dates and professional seals and signatures, as applicable

Area Map

- a) Project name, applicant, contact information, location, PIN, & legend
- b) Dedicated open space, parks, greenways
- c) Overlay Districts, if applicable
- d) Property lines, zoning district boundaries, land uses, project names of site and surrounding properties, significant buildings, corporate limit lines
- e) Existing roads (public & private), rights-of-way, sidewalks, driveways, vehicular parking areas, bicycle parking, handicapped parking, street names.
- f) 1,000' notification boundary

Existing Conditions Plan

- a) Slopes, soils, environmental constraints, existing vegetation, and any existing land features
- b) Location of all existing structures and uses
- c) Existing property line and right-of-way lines
- d) Existing utilities & easements including location & sizes of water, sewer, electrical, & drainage lines
- e) Nearest fire hydrants
- f) Nearest bus shelters and transit facilities
- g) Existing topography at minimum 2-foot intervals and finished grade
- h) Natural drainage features & water bodies, floodways, floodplain, RCD, Jordan Buffers, & Watershed boundaries

Page **7** of **10** Parcel Identifier Number (PIN):



Detailed Site Plan

- a) Existing and proposed building locations
- b) Description & analysis of adjacent land uses, roads, topography, soils, drainage patterns, environmental constraints, features, existing vegetation, vistas (on & off-site)
- c) Location, arrangement, & dimension of vehicular parking, width of aisles and bays, angle of parking, number of spaces, handicapped parking, bicycle parking. Typical pavement sections & surface type
- d) Location of existing and proposed fire hydrants
- e) Location and dimension of all vehicle entrances, exits, and drives
- f) Dimensioned street cross-sections and rights-of-way widths
- g) Pavement and curb & gutter construction details
- h) Dimensioned sidewalk and tree lawn cross-sections
- i) Proposed transit improvements including bus pull-off and/or bus shelter
- j) Required landscape buffers (or proposed alternate/modified buffers)
- k) Required recreation area/space (including written statement of recreation plans)
- I) Refuse collection facilities (existing and proposed) or shared dumpster agreement
- m) Construction parking, staging, storage area, and construction trailer location
- n) Sight distance triangles at intersections
- o) Proposed location of street lights and underground utility lines and/or conduit lines to be installed
- p) Easements
- q) Clearing and construction limits
- r) Traffic Calming Plan detailed construction designs of devices proposed & associated sign & marking plan

Stormwater Management Plan

- a) Topography (2-foot contours)
- b) Existing drainage conditions
- c) RCD and Jordan Riparian Buffer delineation and boundary (perennial & intermittent streams, note ephemeral streams on site)
- d) Proposed drainage and stormwater conditions
- e) Drainage conveyance system (piping)
- f) Roof drains
- g) Easements
- h) BMP plans, dimensions, details, and cross-sections
- i) Planting and stabilization plans and specifications

Landscape Protection Plan

- a) Rare, specimen, and significant tree survey within 50 feet of construction area
- b) Rare and specimen tree critical root zones
- c) Rare and specimen trees proposed to be removed
- d) Certified arborist tree evaluation, if applicable

Revised 02.04.14

Page **8** of **10**

Parcel Identifier Number (PIN):_____





- e) Significant tree stand survey
- f) Clearing limit line
- g) Proposed tree protection /silt fence location
- h) Pre-construction/demolition conference note
- j) Landscape protection supervisor note
- k) Existing and proposed tree canopy calculations, if applicable

Planting Plan

- a) Dimensioned and labeled perimeter landscape bufferyard
- b) Off-site buffer
- c) Landscape buffer and parking lot planting plan (including planting strip between parking and building, entryway planting, and 35% shading requirement

Steep Slope Plan

- a) Classify and quantify slopes 0-10%, 10-15%, 15-25% and 25% and greater
- b) Show and quantify areas of disturbance in each slope category
- c) Provide/show specialized site design and construction techniques

Grading and Erosion Control Plan

- a) Topography (2-foot contours)
- b) Limits of Disturbance
- c) Pertinent off-site drainage features
- d) Existing and proposed impervious surface tallies

Streetscape Plan, if applicable

- a) Public right-of-way existing conditions plan
- b) Streetscape demolition plan
- c) Streetscape proposed improvement plan
- d) Streetscape proposed utility plan and details
- e) Streetscape proposed pavement/sidewalk details
- f) Streetscape proposed furnishing details
- g) Streetscape proposed lighting details

Page **9** of **10** Parcel Identifier Number (PIN):____



Solid Waste Plan

- a) Preliminary Solid Waste Management Plan
- b) Existing and proposed dumpster pads
- c) Proposed dumpster pad layout design
- d) Proposed heavy duty pavement locations and pavement construction detail
- e) Preliminary Shared dumpster agreement, if applicable

Construction Management Plan

- a) Construction trailer location
- b) Location of construction personnel parking and construction equipment parking
- c) Location and size of staging and materials storage area
- d) Description of emergency vehicle access to and around project site during construction
- e) Delivery truck routes shown or noted on plan sheets

Energy Management Plan

- a) Description of how project will be 20% more energy efficient than ASHRAE Standards
- b) Description of utilization of sustainable forms of energy (Solar, Wind, Hydroelectric, and Biofuels)
- c) Participation in NC GreenPower program
- d) Description of how project will ensure indoor air quality, adequate access to natural lighting, and allow for proposed utilization of sustainable energy
- e) Description of how project will maintain commitment to energy efficiency and reduced carbon footprint over time
- f) Description of how the project's Transportation Management Plan will support efforts to reduce energy consumption as it affects the community

Exterior Elevations

a) An outline of each elevation of the building, including the finished grade line along the foundation (height of building measured from mean natural grade).

Page **10** of **10** Parcel Identifier Number (PIN):_____

MCCAULEY STREET APARTMENTS

425 McCAULEY STREET, CHAPEL HILL, NC 27516

INITIAL (ZCP) SITE PLAN SUBMITTAL: MARCH 25, 2015 1ST RESUBMITTAL (ZCP) SITE PLAN: JULY 15, 2015

	PROJECT DAT	A	
	PARCEL A: SITE ADDRESS:	425 McCAULEY STREET CHAPEL HILL, NC 27516	
	OWNER: OWNER ADDRESS:	KEN GORFKLE 1436 POINSETT DRIVE CHAPEL HILL, NC 27717	
	PIN: PARCEL ID: ACREAGE: PLAT BOOK:	9788145268 9095494 20,740 SF / 0.48 AC PB5/PG27 ORANGE CO. REG.	
	EXISTING LAND USE: PROPOSED LAND USE: EXISTING ZONING: COMP. PLAN LAND USE: OVERLAYS: ADOPTED PLANS: TOTAL PROJECT AREA: AREA OF DISTURBANCE: RIVER BASIN: WATERSHED OVERLAY: DESIGN STANDARDS MIN LOT SIZE: MAXIMUM DENSITY:	MULTI-FAMILY RESIDENTIAL MULTI-FAMILY RESIDENTIAL R-4, MEDIUM DENSITY RESIDENTIAL, 10 UNITS / ACRE LOW RESIDENTIAL, 1-4 UNITS PER/AC N/A N/A NET LAND AREA - 20,740 SF / 0.48 AC GROSS LAND AREA - 22,814 SF / 0.52 AC TOTAL DISTURBED AREA = 25,011 SF / 0.57 AC ON-SITE DISTURBED AREA = 20,587 SF / 0.47 AC CAPE FEAR RIVER BASIN JORDAN LAKE WATERSHED PROTECTION DISTRICT 5.500 SF 10 DWELLING UNITS 40'	
	MIN. LOT FRONTAGE: MIN. LOT WIDTH: MAX. BUILDING HEIGHT PRIMARY: SECONDARY: BUILDING SETBACKS	50' 34' 60'	
	<i>STREET: INTERIOR: SOLAR:</i>	22' MIN. 8' MIN. 9' MIN.	
	EXISTING BLDG. AREA: PROPOSED BLDG. AREA:	2.038 SF TOTAL 5,236 SF TOTAL	
	<u>PARKING</u> MIN. NUMBER OF SPACES: MAX. NUMBER OF SPACES REQUIRED: PROVIDED:	2 PER DWELLING UNIT : 2.50 PER DWELLING UNIT 2 X 4 DU = 8 SPACES MIN. / 2.5 X 4 DU = 10 SPACES MAX. 8 PARKING SPACES INCLUDING 1 HANDICAP ACCESSIBLE SPACE	
	MIN. BICYCLE PARKING REQUIRED: PROVIDED:	1 PER 4 DWELLING UNITS 1 BICYCLE PARKING SPACE (CLASS II RACK)	
	<u>LANDSCAPE_BUFFERS</u> NORTH WEST SOUTH EAST	McCAULEY STREET – NO BUFFER REQUIRED HILLTOP STREET – NO BUFFER REQUIRED R4–R2 ZONING – 10' TYPE "B" LANDSCAPE BUFFER R4–R4 ZONING – 10' TYPE "B" LANDSCAPE BUFFER	
	<u>TREE_PROTECTION</u> RE:SD—7.0 LANDSCAPE_PL	AN	
	IMPERVIOUS SURFACE EXISTING: PROPOSED:	4,519 SF / 0.10 AC (22% OF SITE) 8,234 SF / 0.19 AC (40% OF SITE)	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u>RECREATION AREA AND RE</u> MIN. RECREATION AREA: MIN. RECREATION SPACE:	CREATION SPACE NONE REQUIRED PER PRE SUBMITTAL MEETING (R-4  ZONING) 0.039  X 22,814 SF (GROSS) = 890  SF 70% OF REC. SPACE SHALL BE ACTIVE REC. SPACE 890 SF X 0.7 = 623 SF MIN. ACTIVE REC. SPACE 30% OF REC. SPACE CAN BE PASSIVE REC. SPACE (APPROVED BY COUNCIL) 890 SF X 0.3 = 267 SF PASSIVE REC SPACE MAX.	
Ś	267 SF I	ACTIVE REC. SPACE (BASKETBALL) PASSIVE REC SPACE (ADJACENT LAWN/SEATING AREA) C. SPACE PROVIDED = 890 SF	
****	PROJECT NOT		
	BOUNDARY AND TOPOGI	RAPHIC SURVEY PROVIDED BY HOLLAND LAND SURVEYILL, JANUARY 2015.	
		DINANCE COMPLIANCE	
		NO FLOOD PLAIN AS PER FEMA MAP NUMBER 3710978800J (EFFECTIVE	
	F STEEP SLOPE PROTECTION: WETLANDS PROTECTION: TH	EBRUARY 2, 2007) THERE ARE NO STEEP SLOPES ON THIS SITE. ERE ARE NO WETLANDS ON THIS SITE. ARE NO STREAM BUFFERS ON THIS SITE.	



# APPLICANT / OWNER

KEN GORFKLE 1436 POINSETT DRIVE CHAPEL HILL, NC 27717 PHONE: 919-942-1467

VICINITY MAP

LIST OF SHEETS

COVER SHEET

SITE LAYOUT PLAN

STORMWATER DETAILS

SITE LIGHTING PLAN

LANDSCAPE PLAN

SHEET NOT USED

UTILITY DETAILS

010915 425A MCCAULEY

010915 HILLTOP ST SIDE

APPROVAL STAMPS

EROSION CONTROL PLAN

EROSION CONTROL DETAILS

021215.2 425 C-D MCCAULEY NEW APARTMENTS

AREA MAP

UTILITY PLAN

SITE DETAILS

NO SCALE

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SD-0.0

SD-.01

SD-1.0

SD-2.0

SD-2.1

SD-3.0

SD-3.1

SD-4.0

SD-5.0

SD-6.0

SD-7.0

SD-8.0

SD-8.1

SD-8.2

SD-8.3

# CONSULTANTS:

LANDSCAPE ARCHITECT: CIVIL ENGINEER: COULTER JEWELL THAMES PA COULTER JEWELL THAMES PA 111 WEST MAIN STREET DURHAM, NC 27701 PHONE: 919-682-0368 CONTACT: ANDREW PORTER

HOME DESIGNER: H SQUARED HOME DESIGN, INC. 165 HEATHERSTONE CT. BENSON, NC 27504 PHONE: 919-207-1403 CONTACT: HEATHER HALL

SITE

BROOKSIDE DR.

 $\sqrt{1}$ 

EXISTING CONDITIONS/DEMOLITION PLAN

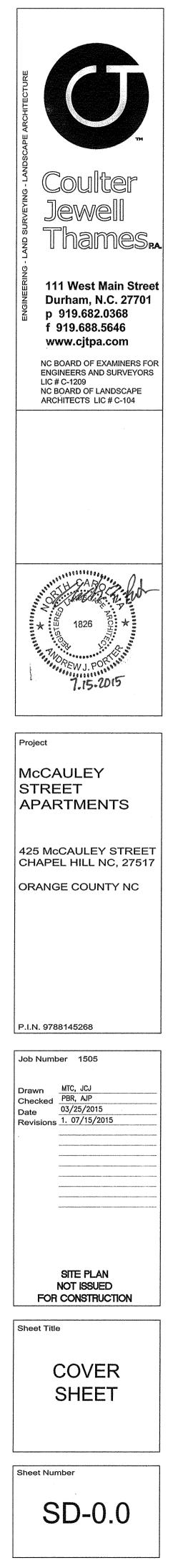
MCCAULEY STREET IMPROVEMENT PLAN

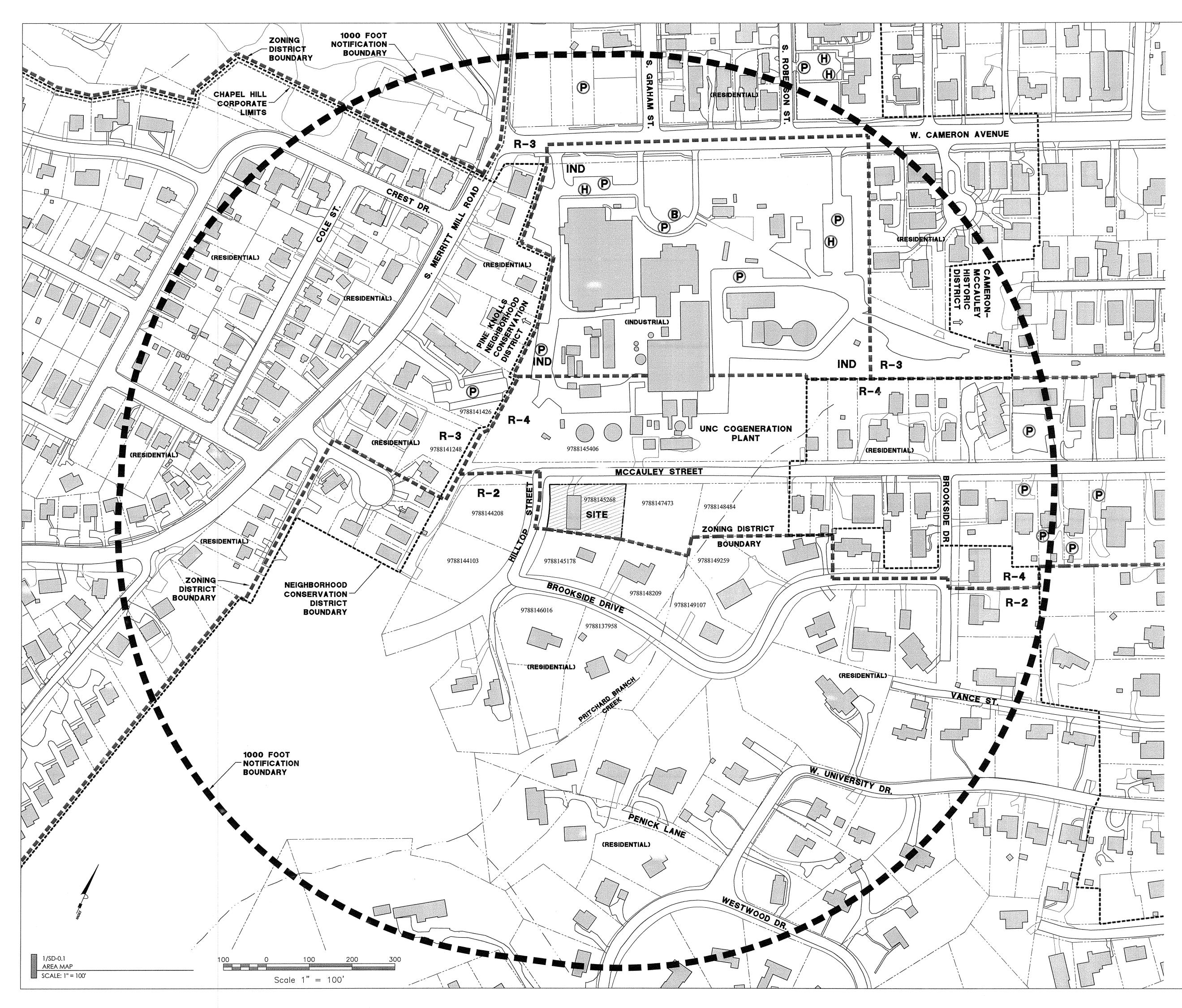
GRADING AND STORMWATER PLAN

CAULEY

P.I.N. 9788145268

111 WEST MAIN STREET DURHAM, NC 27701 PHONE: 919–682–0368 CONTACT: PRESTON ROYSTER

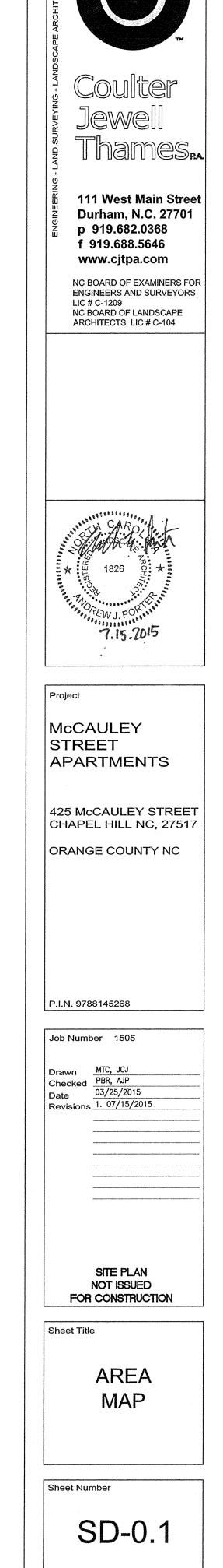


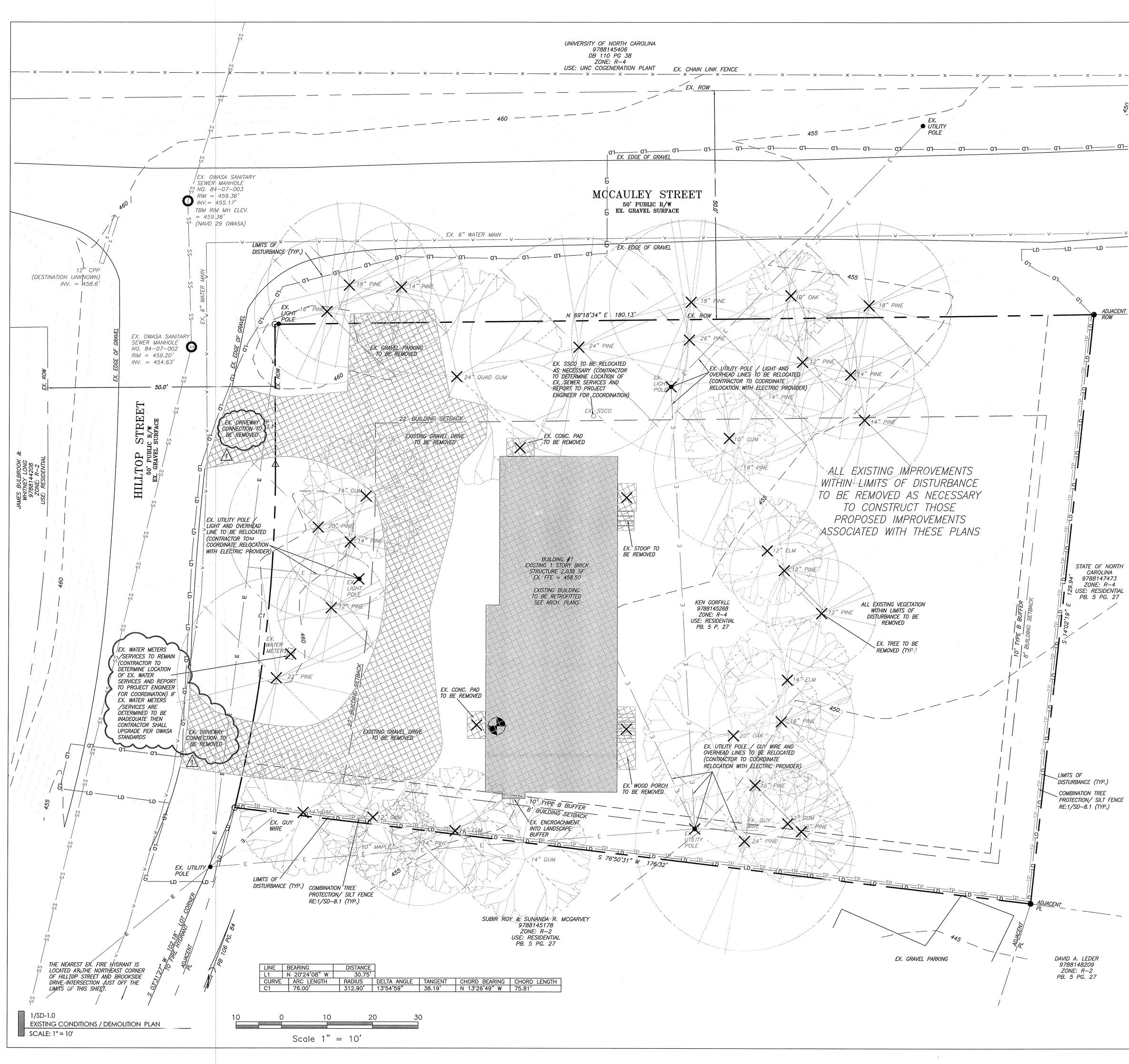


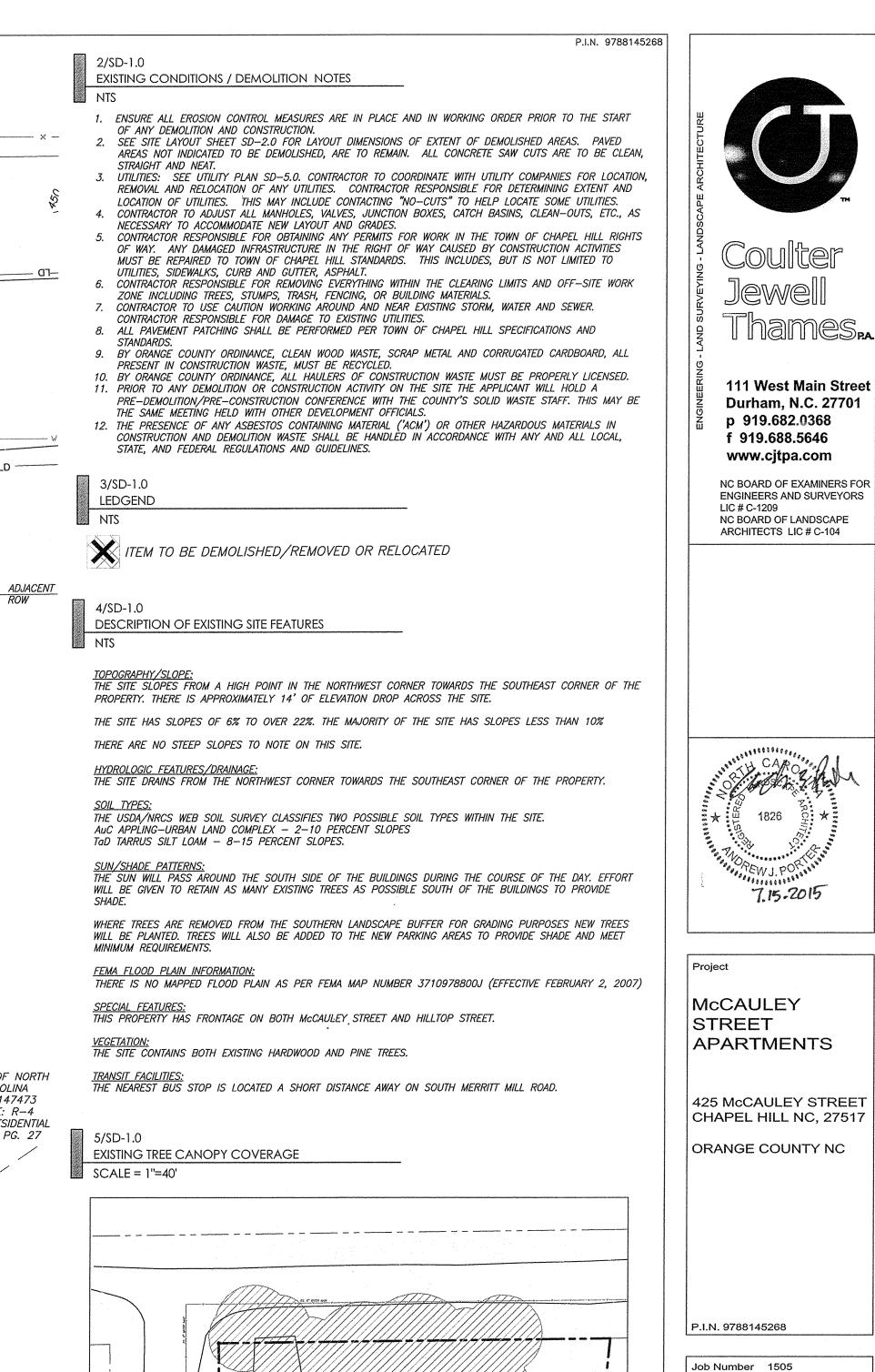
LEGEND ----- PROPERTY LINE H P B BICYCLE PARKING

NOTIFICATION BOUNDARY ZONING DISTRICT BOUNDARY HISTORIC DISTRICT BOUNDARY CHAPEL HILL CORPORATE LIMITS STREAM ADA PARKING VEHICULAR PARKING

P.I.N. 9788145268







DISTURBANCE (TYP.) COMBINATION TREE PROTECTION/ SILT FENCE RE:1/SD-8.1 (TYP.)

CAROLINA

ZONE: R-4

- מז------ מז-

-----LD ------

EX. TREE CANOPY COVERAGE AREA (TYP.) (14,085 SF) EX SITE AREA = 20,740 SF EX TREE CANOPY COVERAGE AREA = 14,085 SF 14,085 / 20,740 = 68% EXISTING CANOPY COVERAGE

SITE PLAN NOT ISSUED FOR CONSTRUCTION Sheet Title

MTC, JCJ

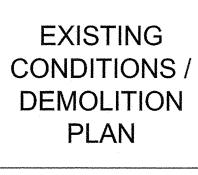
03/25/2015

Checked PBR, AJP

Revisions 1. 07/15/2015

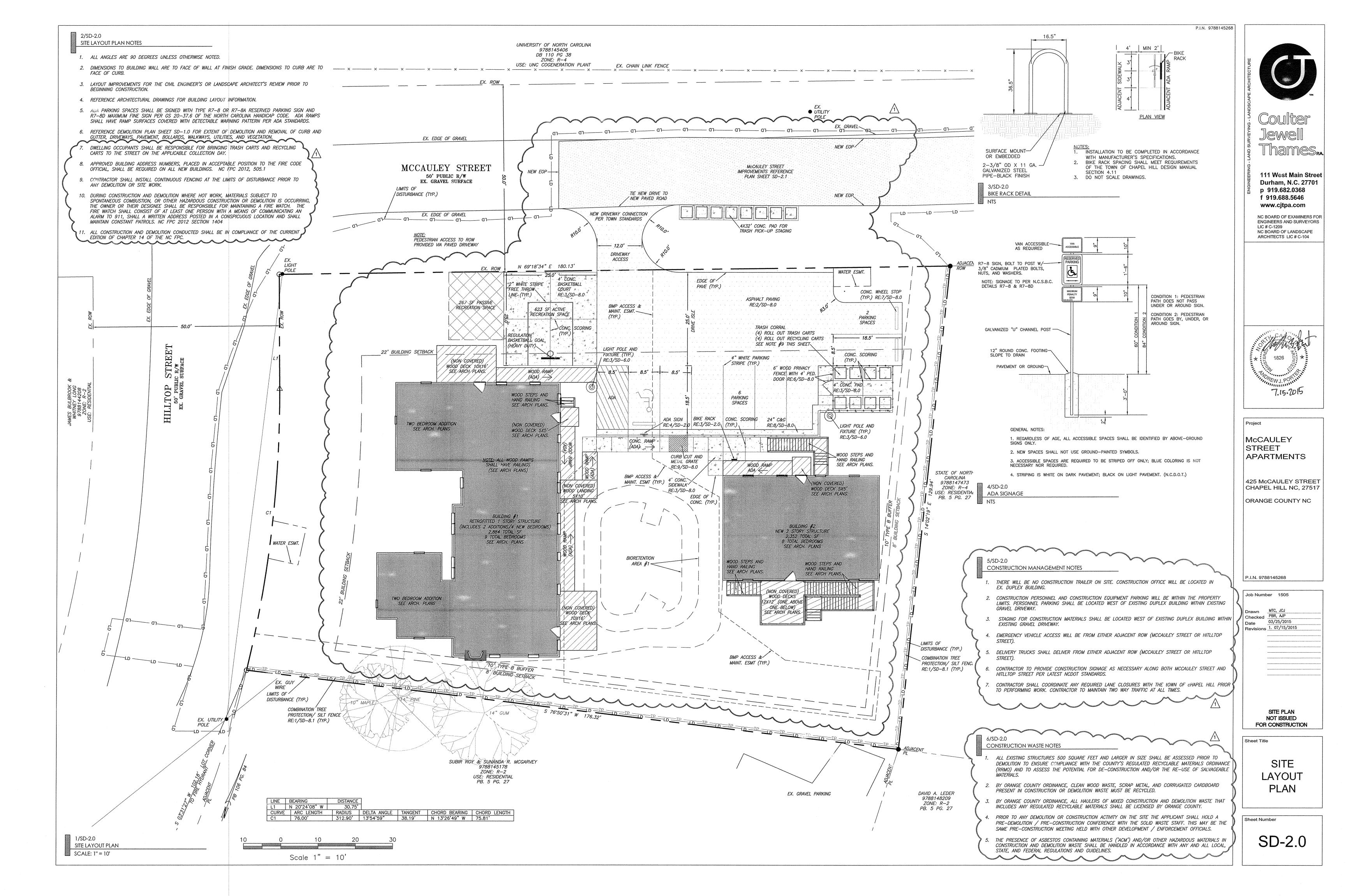
Drawn

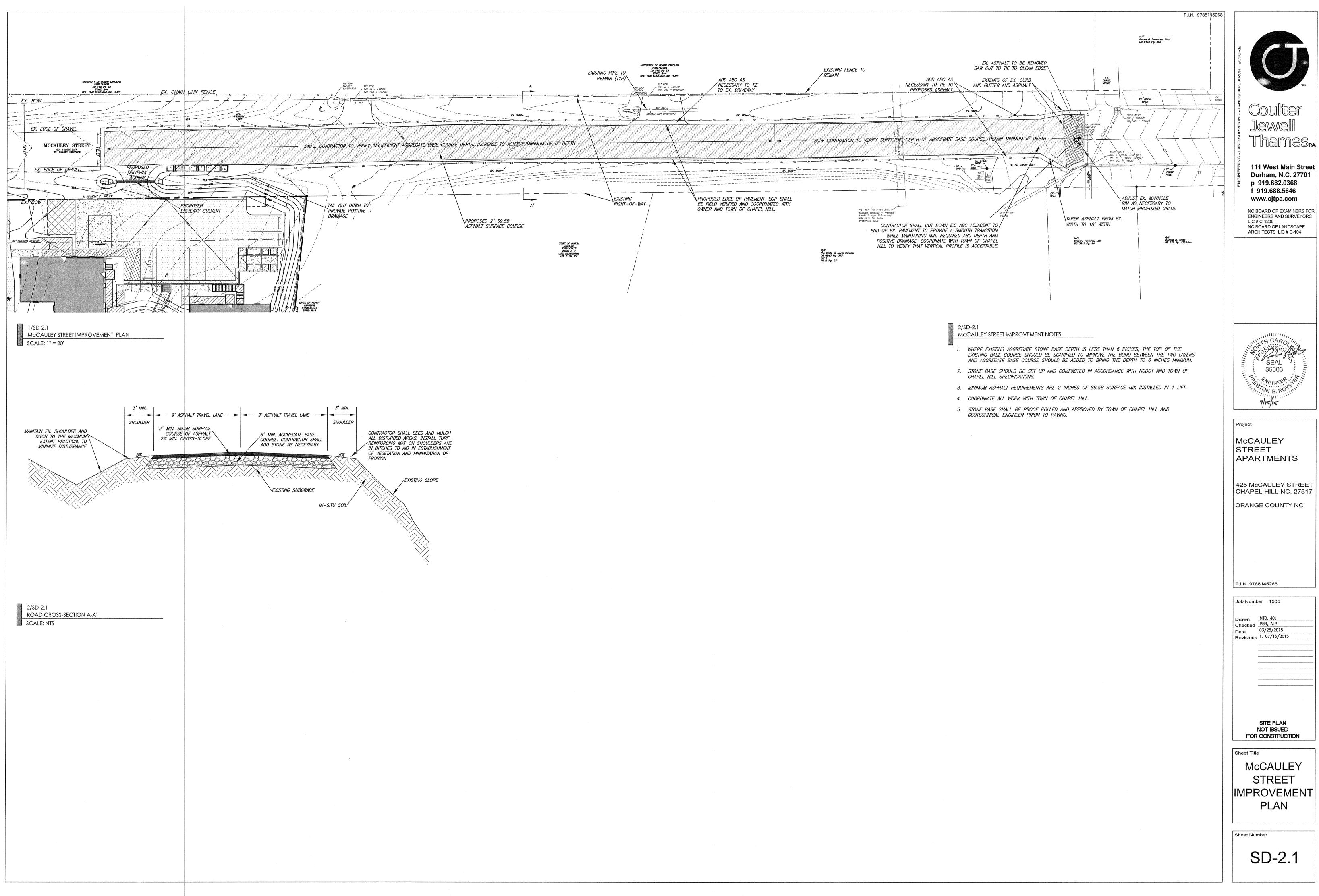
Date

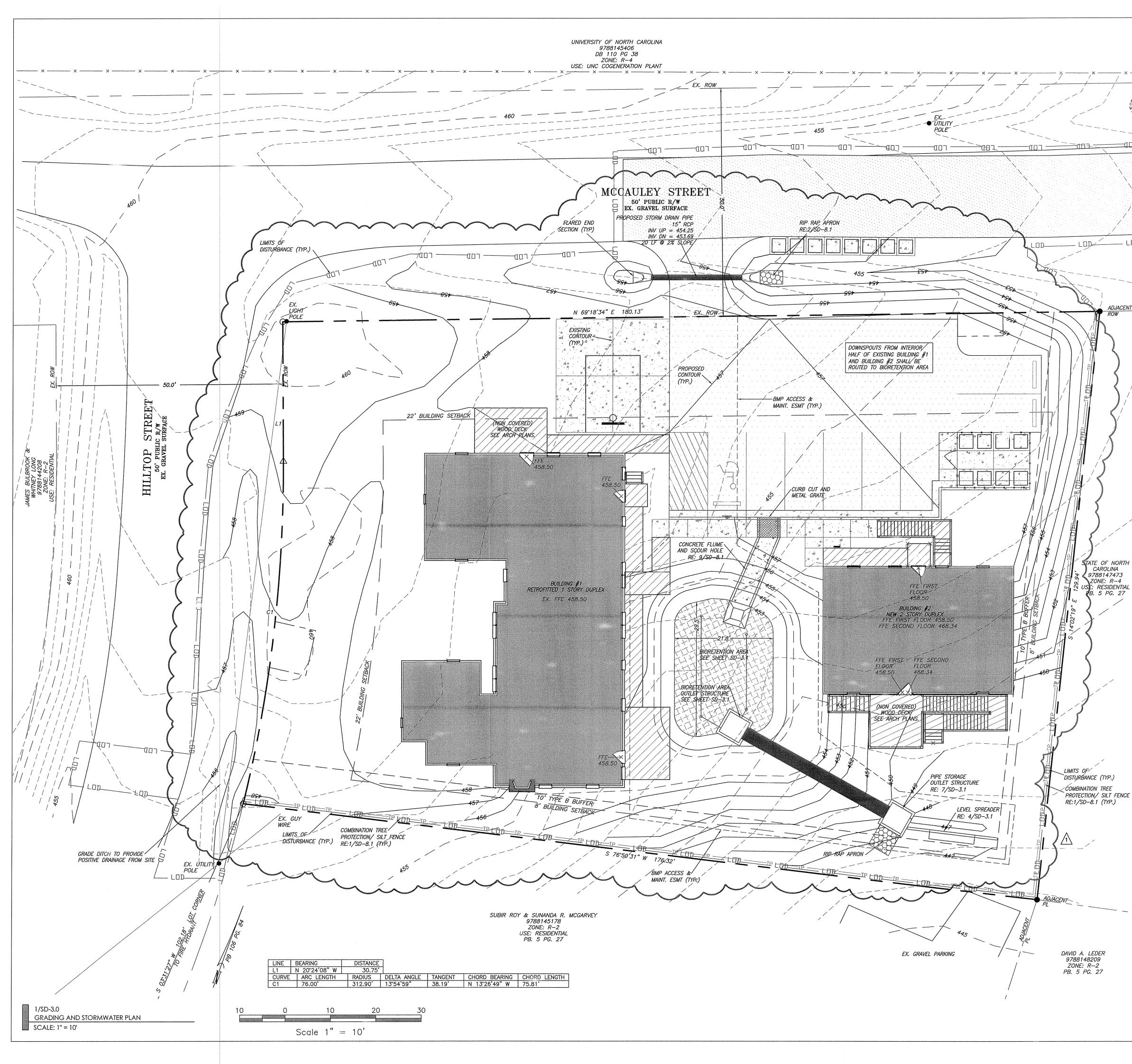


SD-1.0

Sheet Number







#### 2/SD-3.0 GRADING AND STORMWATER PLAN NOTES

#### GRADING NOTES:

1. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR 1 CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.

P.I.N. 9788145268

Jewell

hames.

**111 West Main Street** 

Durham, N.C. 27701

NC BOARD OF EXAMINERS FOR

ENGINEERS AND SURVEYORS

NC BOARD OF LANDSCAPE

ARCHITECTS LIC # C-104

HCAR

SEAL

35003

GINE

Project

McCAULEY STREET

APARTMENTS

425 McCAULEY STREET CHAPEL HILL NC, 27517

ORANGE COUNTY NC

P.I.N. 9788145268

Job Number 1505

Checked PBR, AJP

Revisions 1. 07/15/2015

Drawn

Date

MTC, JCJ

03/25/2015

p 919.682.0368

f 919.688.5646

www.cjtpa.com

LIC # C-1209

- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF CHAPEL HILL STANDARDS AND SPECIFICATIONS. 3. CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE
- CALL . CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- 5. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
- . SOIL UNDER BUILDING PAD, PAVED AREAS AND WITHIN SLOPES GREATER THAN 3:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. THESE SOILS SHALL BE COMPACTED AS SPECIFIED UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER. ANY UNDERCUT OF SOILS IN THESE AREAS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER & OWNER. THE UNDERCUT SOILS SHALL ALSO QUANTIFIED BY THE GEOTECHNICAL ENGINEER.
- 7. ALL GRADING MUST PRODUCE SURFACE DRAINAGE ADEQUATE TO PREVENT STANDING WATER OR WET LAWN AREAS, AND TO ENSURE THAT ALL STORM WATER FLOWS TO INLETS OR OTHER POINTS OF DISCHARGE.

8. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH A MAXIMUM 1.8% CROSS SLOPE IN THE DIRECTION SHOWN ON THE PLAN.

#### STORM DRAINAGE NOTES:

ADJACENT

- 1. ALL STORM DRAINAGE PIPES SHOWN ARE TO BE CLASS III REINFORCED CONCRETE (RCP) UNLESS NOTED OTHERWISE.
- 2. ALL STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF CHAPEL HILL STANDARDS.
- 3. ALL CONCRETE SHALL MEET A MINIMUM 3000 PSI COMPRESSIVE STRENGTH.
- 4. ALL PIPE IN STORM DRAIN STRUCTURES SHALL BE STRUCK EVEN WITH INSIDE WALL
- 5. ALL PIPE JOINTS SHALL BE MADE WITH PREFORMED JOINT SEALER, WHICH CONFORMS TO AASHTO SPECIFICATION M-198 FOR TYPE B FLEXIBLE PLASTIC GASKETS UNLESS OTHERWISE NOTED.
- 6. THE INTERIOR SURFACES OF ALL STORM DRAINAGE STRUCTURES SHALL BE POINTED AND SMOOTHED TO AN ACCEPTABLE STANDARD USING MORTAR MIXED TO MANUFACTURER'S SPECIFICATIONS.
- 7. ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL OR OTHER OBJECTIONABLE MATERIAL. SAID MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMPING BLOWS OR PROOF ROLLING.
- 8. MATERIALS DEEMED BY THE OWNER'S REPRESENTATIVE AS UNSUITABLE FOR BACKFILL PURPOSES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
- 9. BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PIPE IS LAID. THE FILL AROUND THE PIPE SHALL BE THOROUGHLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY OBTAINABLE WITH THE
- STANDARD PROCTOR TEST. THE TOP EIGHT (8) INCHES SHALL BE COMPACTED TO 100% STANDARD PROCTOR. 10. UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED.

#### 3/SD-3.0

#### ADA ROUTE NOTES APPLIES TO ALL SHEETS

- FOR ALL SIDEWALKS THE FOLLOWING APPLIES:
- SIDEWALK SLOPES TO BE A MAXIMUM 4.8%. 2. SIDEWALK CROSS SLOPES TO BE A MAXIMUM 1.8%.
- 3. MINIMUM 1' SHOULDER AT MAXIMUM 2% SLOPE ADJACENT TO ADA PAVED ROUTES UNLESS A HANDRAIL IS
- CALLED OUT. 4. ADA PARKING TO BE A MAXIMUM 1.8% SLOPE IN ANY DIRECTION FOR ENTIRE AREA - PARKING SPACES AND
- AISLES. 5. ALL ADA ACCESSIBLE DOORS EXITING THE BUILDING REQUIRE AN ACCESSIBLE COMPLINT ROUTE TO A PUBLIC

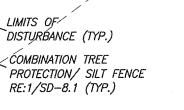
#### 4/SD-3.0 **BIORETENSION AREA NOTES**

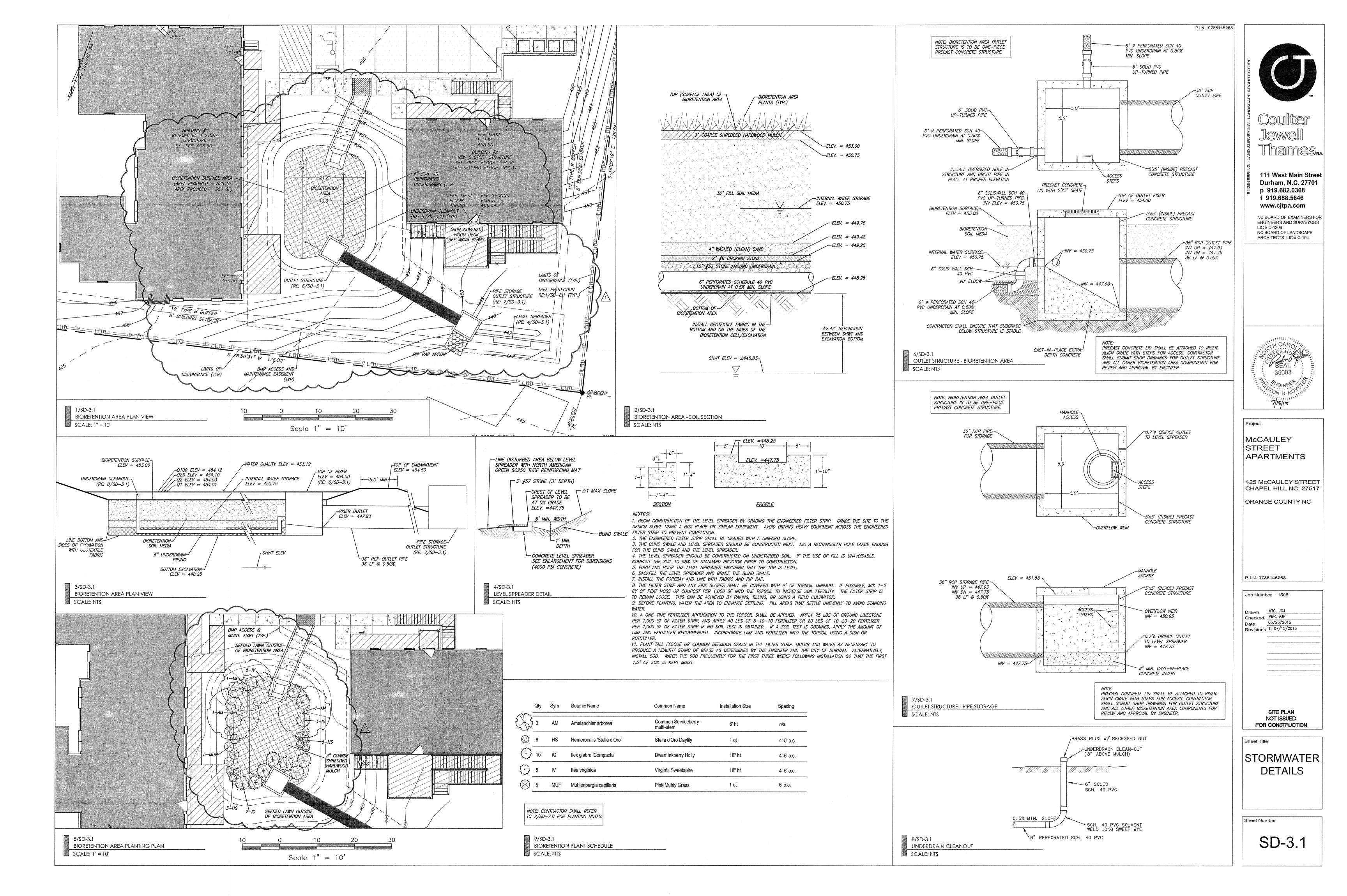
#### NOTES:

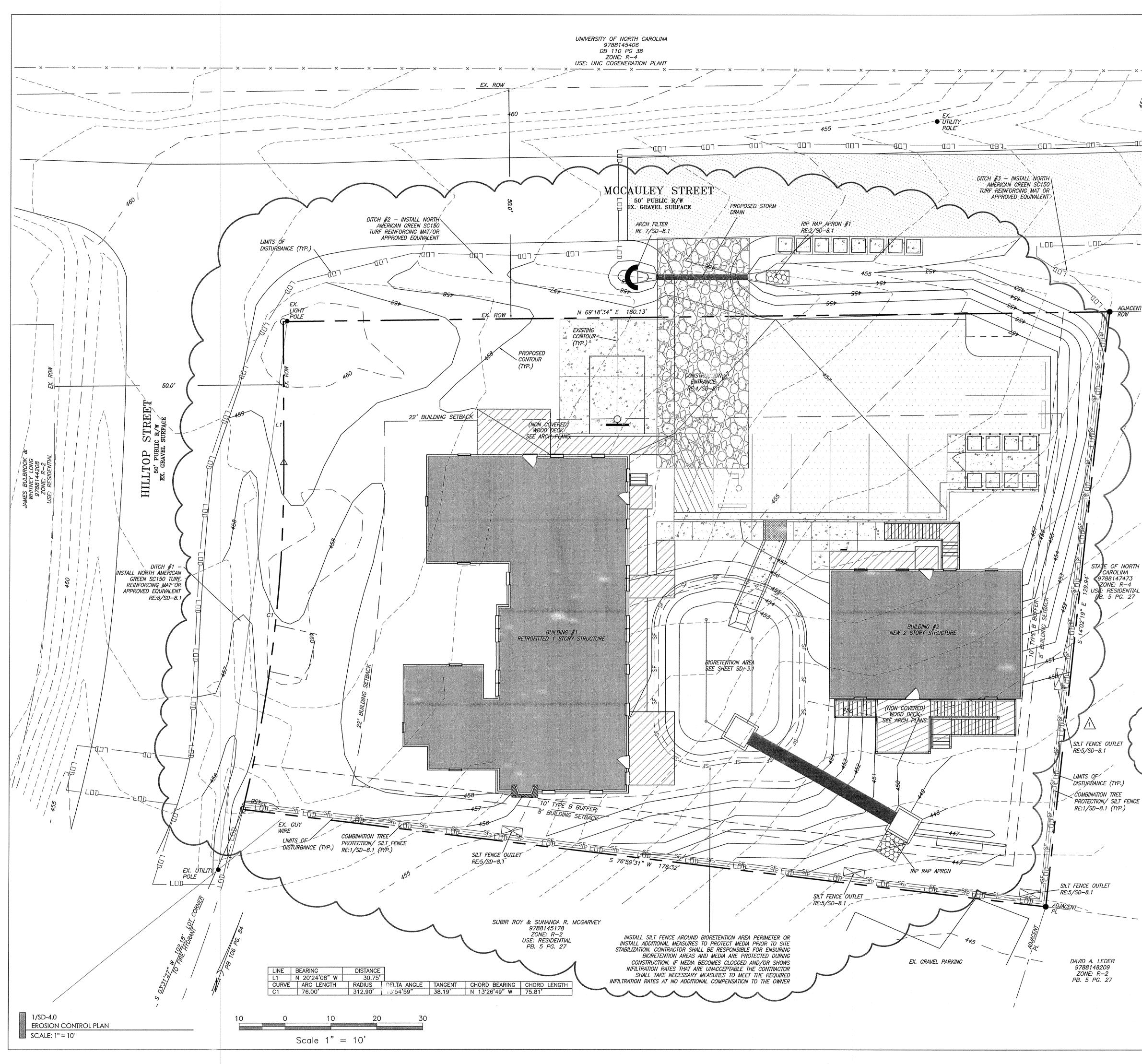
- 1. ALL SEDIMENT AND EROSION CONTROL PRACTICES SHALL BE IN PLACE AND THE SLOPES DRAINING TO THE BIORETENTION AREA SHALL BE STABILIZED BEFORE CONSTRUCTION OF THE BIORETENTION AREA BEGINS. ALL UPHILL AREAS DRAINING TO THE BIORETENTION AREA INCLUDING PARKING AND BUILDINGS MUST BE STABILIZED AND PAVED PRIOR TO BEGINNING CONSTRUCTION OF THE BIORETENTION AREA.
- 2. THE BIORETENTION SOIL MIX SHALL BE AT LEAST 36" DEEP AND SHALL BE A MIX THAT MEETS THE FOLLOWING SPECIFICATIONS: – 85% – 88% (BY VOLUME) ASTM C–33 SAND
- 8% 12% (BY VOLUME) FINES (INCLUDES BOTH SILTS AND CLAYS)
- 3% 5% (BY VOLUME) ORGANIC/PEAT MOSS (NOTE: THE ORGANIC MATERIAL SHALL BE WELL MIXED OR LAYERED IN THE UPPER 18" OF THE SOIL MIX.) - THE IN-PLACE HYDRAULIC CONDUCTIVITY RANGE OF THE SOIL MIX SHALL BE BETWEEN 1.0-2.0 INCHES/HOUR. THE
- MEDIA SHOULD BE TESTED TO DETERMINE THE ACTUAL DRAINAGE RATE AFTER PLACEMENT
- THE SOIL MIX SHALL HAVE A P-INDEX RANGE BETWEEN 10 AND 25 - SOIL MEDIA SHOULD BE SENT TO NC DEPARTMENT OF AGRICULTURE LABS TO BE ANALYZED
- 3. SOD THAT IS INSTALLED MUST NOT BE GROWN IN SOIL THAT HAS AN IMPERMEABLE LAYER, SUCH AS CLAY.
- 4. THE FILL SOIL MEDIA SHALL BE FREE OF STONES, STUMPS, ROOTS, OR SIMILAR OBJECTS LARGER THAN 1". SOIL SHALL BE PLACED IN LAYERS LESS THAN 18". 5. ALL SLOPES DRAINING TO THE BIORETENTION AREA SHALL BE STABILIZED PRIOR TO INSTALLATION OF THE UNDERDRAIN
- SYSTEM.
- 6. THE BIORETENTION AREA MUST BE COMPLETE PRIOR TO OBTAINING C.O. 7. CONTRACTOR TO PROVIDE ELEVATIONS AT THE TOP OF THE MULCH, TOP OF PLANTING SOIL MEDIA, TOP OF THE SAND LAYER, TOP OF GRAVEL, AND BOTTOM OF BIORETENTION AREA TO THE ENGINEER. CONTRACTOR SHALL PROVIDE SPACING OF UNDERDRAIN PIPING TO THE ENGINEER. IF THIS INFORMATION IS NOT PROVIDED, CONTRACTOR SHALL VERIFY ELEVATIONS BY EXCAVATING DOWN TO EACH LAYER AND REPAIR BIORETENTION AREA AT NO ADDITIONAL COST TO THE
- OWNER. 8. CONTRACTOR TO CONDUCT IN-PLACE INFILTRATION TESTING ON THE SOIL MEDIA. THE INFILTRATION RATE MUST BE BETWEEN 1-2 IN/HR. DOUBLE RING INFILTRATION TESTS (MINIMUM OF 2 TESTS OR 1 TEST/1000 SF OF FILTER MEDIA SURFACE AREA, WHICHEVER IS GREATER) SHALL BE PERFORMED AT THE COMPLETION OF THE BIORETENTION AREA CONSTRUCTION. IF THE IN-PLACE INFILTRATION RATE IS OUTSIDE OF THE ALLOWABLE RANGE, THE CONTRACTOR SHALL CORRECT THE RATE BY WHATEVER MEANS ARE NECESSARY AT NO ADDITIONAL COST TO THE OWNER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE ENGINEER.
- 9. CONTRACTOR SHALL PROVIDE A COPY OF THE PURCHASE RECEIPTS FOR ALL PIPE INSTALLED AS PART OF THE BIORETENTION AREA. THE RECEIPTS SHOULD IDENTIFY THE ASTM SPECIFICATION GOVERNING THE MANUFACTURE OF THE PIPE.
- 10. AVOID OVER-COMPACTION BY ALLOWING TIME FOR NATURAL COMPACTION AND SETTLEMENT. NO ADDITIONAL MANUAL COMPACTION OF SOIL IS NECESSARY. RAKE SOIL MATERIAL AS NEEDED TO LEVEL OUT. OVERFILL ABOVE THE PROPOSED SURFACE INVERT TO ACCOMMODATE NATURAL SETTLEMENT TO PROPER GRADE. DEPENDING UPON THE SOIL MATERIAL, UP TO 20% NATURAL COMPACTION MAY OCCUR. CONSULT WITH SOIL PROVIDER FOR NATURAL COMPACTION. 11. A COPY OF THE USDA SOIL ANALYSIS MUST BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING AND INSTALLING THE FILTER MEDIA.
- SITE PLAN NOT ISSUED FOR CONSTRUCTION Sheet Title GRADING AND STORMWATER PLAN

Sheet Number

SD-3.0







#### 2/SD-4.0 EROSION CONTROL PLAN NOTES

#### EROSION CONTROL NOTES:

- 1. EROSION CONTROL BOND: IF ONE (1) ACRE OR MORE IS UNCOVERED BY LAND-DISTURBING ACTIVITIES FOR THIS PROJECT, THEN A PERFORMANCE GUARANTEE IN ACCORDANCE WITH SECTION 5-97.1 BONDS OF THE TOWN CODE OF ORDINANCES SHALL BE REQUIRED PRIOR TO FINAL AUTHORIZATION TO BEGIN LAND-DISTURBING ACTIVITIES. THIS FINANCIAL GUARANTEE IS INTENDED TO COVER THE COSTS OF RESTORATION OF FAILED OR FAILING SOIL EROSION AND SEDIMENTATION CONTROLS, AND/OR TO REMEDY
- DAMAGES RESULTING FROM LAND-DISTURBING ACTIVITIES, SHOULD THE RESPONSIBLE PARTY OR PARTIES FAIL TO PROVIDE PROMPT AND EFFECTIVE REMEDIES ACCEPTABLE TO THE TOWN. 2. THE APPLICANT SHALL PROVIDE A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PERMIT FROM
- ORANGE COUNTY EROSION CONTROL DIVISION PRIOR TO RECEIVING A ZONING COMPLIANCE PERMIT. DURING THE CONSTRUCTION PHASE. ADDITIONAL EROSION AND SEDIMENT CONTROLS MAY BE REQUIRED IF THE PROPOSED MEASURES DO NOT CONTAIN THE SEDIMENT. SEDIMENT LEAVING THE PROPERTY IS A VIOLATION OF THE TOWN'S EROSION AND SEDIMENT CONTROL ORDINANCE.
- THE CONTRACTOR SHALL TAKE THE APPROPRIATE MEASURES TO PREVENT AND REMOVE THE DEPOSIT OF WET OR DRY SILT ON ADJACENT PAVED ROADWAYS.
- EROSION CONTROL INSPECTIONS: IN ADDITION TO THE REQUIREMENT DURING CONSTRUCTION FOR INSPECTION AFTER EVERY RAINFALL, THE APPLICANT SHALL INSPECT THE EROSION AND SEDIMENT CONTROL DEVICES WEEKLY. MAKE ANY NECESSARY REPAIRS OR ADJUSTMENTS TO THE DEVICES, AND MAINTAIN INSPECTION LOGS DOCUMENTING THE DAILY INSPECTIONS AND ANY NECESSARY REPAIRS.

#### 3/SD-4.0 CONSTRUCTION SEQUENCE

ENFORCEMENT NOTE 1. FAILURE TO FOLLOW THIS CONSTRUCTION SEQUENCE MAY RESULT IN LOCAL ENFORCEMENT ACTIONS, INCLUDING BUT NOT LIMITED TO CIVIL PENALTIES, INJUCTIVE RELIEF, CRIMINAL PENALTIES, AND PERMIT REVOCATION. ADDITIONALLY, OFF-SITE SEDIMENTATION MAY RESULT IN RESTORATION REQUIREMENTS. ENFORCEMENT NOTE 2. IF THE ORANGE COUNTY S&E STAFF DETERMINES THAT EXCESSIVE SEDIMENT IS LEAVING

REQUIREMENTS FOR ADDITIONAL S&E MEASURES. NOTE: IF AN OFFSITE SOIL SPOIL OR BORROW SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE SPOIL/BORROW SITE MUST BE INCLUDED IN THE LAND-DISTURBANCE PLAN AND PERMIT UNLESS THE SPOIL/BORROW SITE ALREADY HAS A LAND-DISTURBANCE PERMIT

THE SITE, A REVISED SEDIMENTATION AND EROSION CONTROL PLAN MAY BE REQUIRED, WITH ASSOCIATED

#### CONSTRUCTION SEQUENCE

ADJACEN1

- 1. INSTALL COMBINATION TREE PROTECTION/SILT FENCING IN ACCORDANCE WITH THE APPROVED SITE PLAN.
- 2. CALL ORANGE COUNTY S&E OFFICE FOR INSPECTION OF TREE FENCE INSTALLATION (919)245-2586.
- 3. OBTAIN ALL PERMITS AND APPROVALS NECESSARY TO BEGIN AND COMPLETE THE PROJECT. OBTAIN ALL PERMITS PRIOR TO BEGINNING ANY DISTURBANCE OF THE SITE SO WORK WILL NOT BE INTERRUPTED.
- 4. SCHEDULE AND HOLD A PRE-CONSTRUCTION CONFERENCE PRIOR TO BEGINNING ANY LAND-DISTURBING ACTIVITIES. THIS CONFERENCE SHOULD BE ATTENDED BY A REPRESENTATIVE OF THE FINANCIALLY RESPONSIBLE PARTY AND/OR THE GENERAL CONTRACTOR, GRADING SUB-CONTRACTOR, EROSION CONTROL SUB-CONTRACTOR AND THE ORANGE COUNTY S&E OFFICE.
- 5. OBTAIN LAND DISTURBING PERMIT AND PLACARD, AND POST THE PLACARD ON SITE.
- 6. OBTAIN AN APPROVED (STAMPED) S&E CONTROL PLAN AND KEEP IT ON SITE, EITHER IN THE INSPECTION BOX, CONSTRUCTION OFFICE OR WITH THE CONTRACTOR.
- 7. ONLY CLEAR THE AREA NECESSARY TO INSTALL GRAVEL CONSTRUCTION ENTRANCE, SILT FENCES, AND OTHER INITIAL EROSION CONTROL MEASURES.
- 8. NOTIFY THE ORANGE COUNTY S&E SITE INSPECTOR AFTER MEASURES HAVE BEEN INSTALLED AND PROJECT HAS STARTED.
- 9. BEGIN CLEARING, GRUBBING, AND GRADING OF SITE IN ACCORDANCE WITH APPROVED S&E CONTROL PLAN.
- 10. PROVIDE ALL DISTURBED AREAS WITH GROUND COVER AFTER COMPLETION OF ANY PHASE OF CLEARING, GRUBBING OR GRADING. THE SEEDING, SEEDBED PREPARATION, MULCH AND/OR ROLLED EROSION CONTROL PRODUCT INSTALLATION MUST BE IN ACCORDANCE WITH THE SEEDING SCHEDULE PROVIDED IN THIS S&E PLAN.
- 11. INSPECT AND MAINTAIN THE SEDIMENT CONTROL DEVICES SO THEY CONTINUE TO FUNCTION PROPERLY. THE PERSON RESPONSIBLE FOR EROSION CONTROL WILL OVERSEE THE INSPECTING AND MAINTENANCE OF THESE DEVICES. MEASURES SHOULD BE INSPECTED WEEKLY AND AFTER A RAINFALL OF MORE THAN 0.5 INCHES. EROSION CONTROL DEVICES SHALL BE REPLACED WHEN DAMAGED OR DO NOT APPEAR TO WORKING PROPERLY.
- 12. IF IT IS DETERMINED DURING THE COURSE OF CONSTRUCTION THAT SIGNIFICANT SEDIMENT IS LEAVING THE PROJECT SITE DESPITE PROPER IMPLEMENTATION AND MAINTENANCE OF THE EROSION CONTROL PLAN, THE PERSON RESPONSIBLE FOR THE LAND DISTURBING ACTIVITY IS OBLIGATED TO TAKE ADDITIONAL PROTECTIVE ACTION
- 13. KEEP MUD AND DEBRIS OFF THE PUBLIC STREET AT ALL TIMES. IF MUD OR DEBRIS IS TRACKED FROM THE SITE. USE A SHOVEL AND BROOM TO REMOVE IT IMMEDIATELY. IF MUD AND DEBRIS ARE NOT KEPT OFF THE STREET, ENFORCEMENT ACTION (REVOKING THE GRADING PERMIT AND/OR A STOP WORK ORDER) MAY BE TAKEN
- 14. SEEDING AND RESTABILIZATION OF DISTURBED AREAS MUST BE ACCOMPLISHED PER THE PLANS AND SPECIFICATIONS WITHIN THE TIMEFRAMES GIVEN IN THE STABILIZATION TIME TABLE PROVIDED IN THE SEEDING SCHEDULE (6/SD-8.1). CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEEDING THAT IS REQUIRED DURING THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
- 15. AT THE CONCLUSION OF BUILDING OR IF LAND-DISTURBIING ACTIVITY IS STOPPED, TEMPORARY OR PERMANENT VEGETATION COVER SHALL BE INSTALLED.
- 16. WHEN CONSTRUCTION IS COMPLETE AND STABILIZED, CONTACT EROSION CONTROL PERSONNEL FOR AN INSPECTION.
- 17. WHEN CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN PERMANENTLY RESTABILIZED AND APPROVAL HAS BEEN GRANTED BY EROSION CONTROL PERSONNEL, REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES. REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SEDIMENT AND DEBRIS FROM THE DEVICES AND RESTABILIZE AREAS DISTURBED BY THEIR REMOVAL.

#### 4/SD-4.0 AREA OF DISTURBANCE NOTES

TOTAL DISTURBED AREA = 25,011 SF / 0.57 AC ON-SITE DISTURBED AREA = 20,587 SF / 0.47 AC

DISTURBANCE (TYP.) COMBINATION TREE PROTECTION/ SILT FENCE

CAROLINA

Jewel hames. **111 West Main Street** Durham, N.C. 27701 p 919.682.0368 f 919.688.5646 www.cjtpa.com NC BOARD OF EXAMINERS FOR ENGINEERS AND SURVEYORS LIC # C-1209 NC BOARD OF LANDSCAPE ARCHITECTS LIC # C-104 HCAR SEAL 35003 WGINEE ONBR 7/15/15

P.I.N. 9788145268

#### Project

#### McCAULEY STREET APARTMENTS

425 McCAULEY STREET CHAPEL HILL NC. 27517 ORANGE COUNTY NC

# P.I.N. 9788145268

Job Number 1505

MTC, JCJ Drawn Checked PBR, AJP Date 03/25/2015 Revisions 1. 07/15/2015

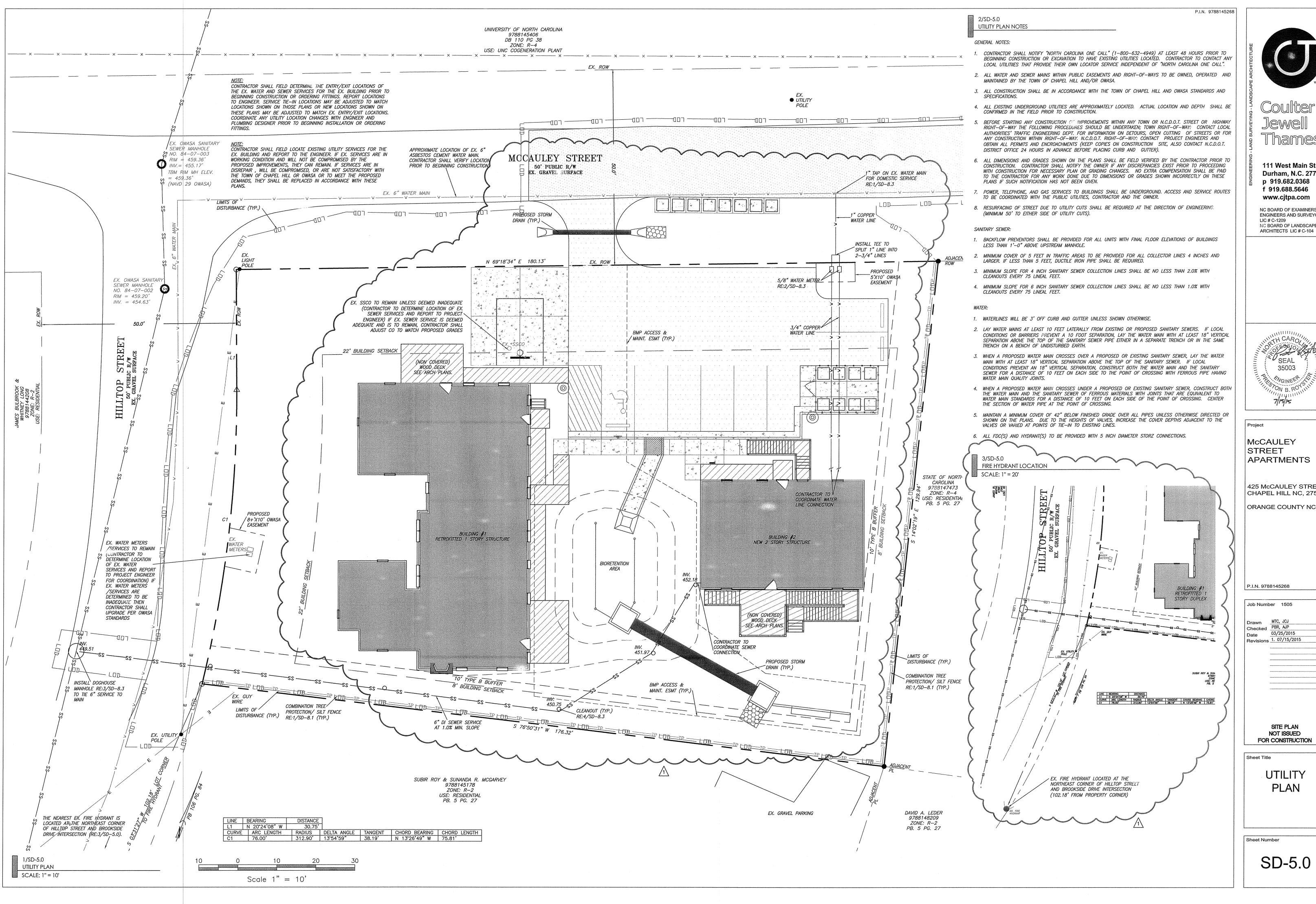
SITE PLAN NOT ISSUED FOR CONSTRUCTION

Sheet Title

EROSION CONTROL PLAN

SD-4.0

Sheet Number

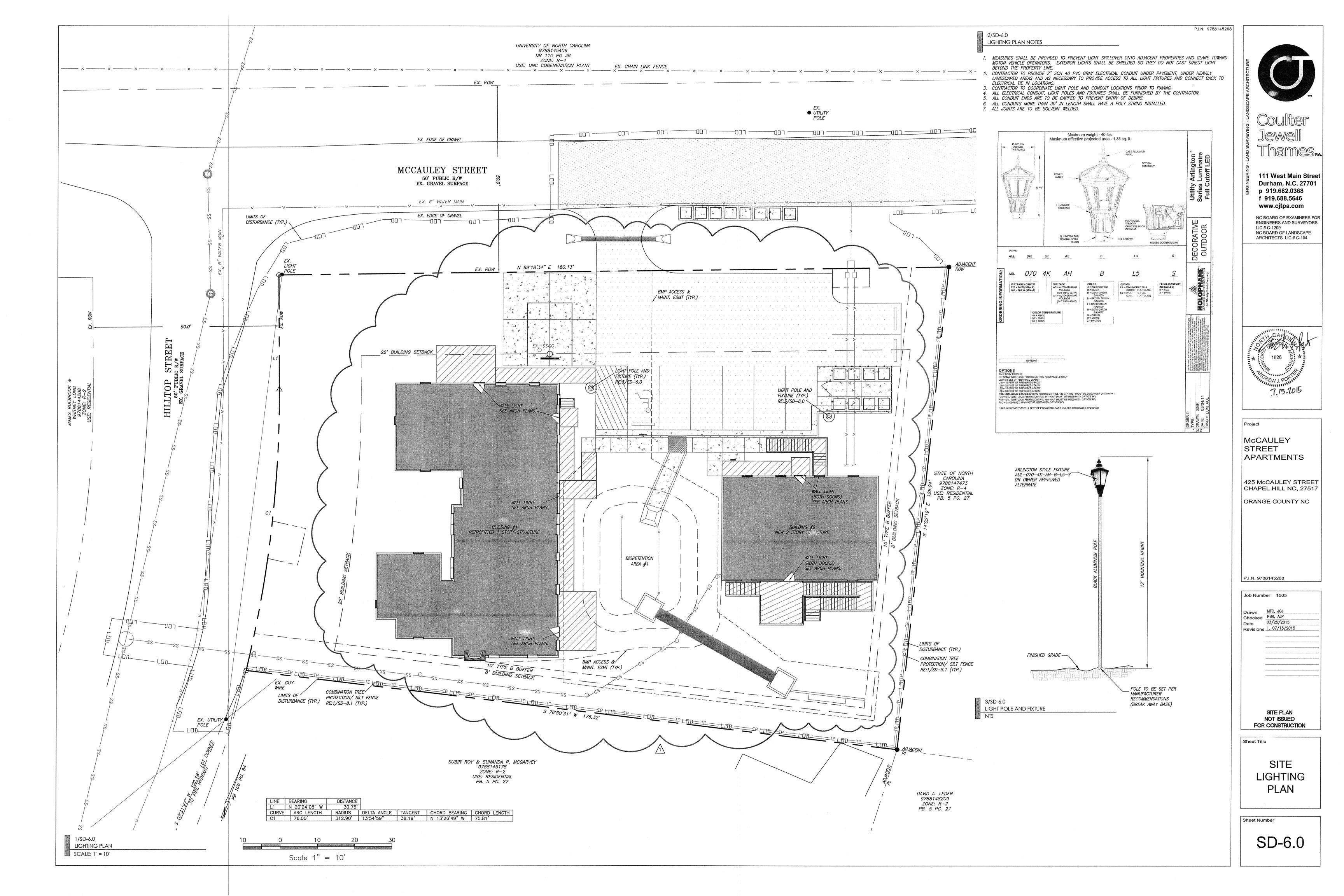


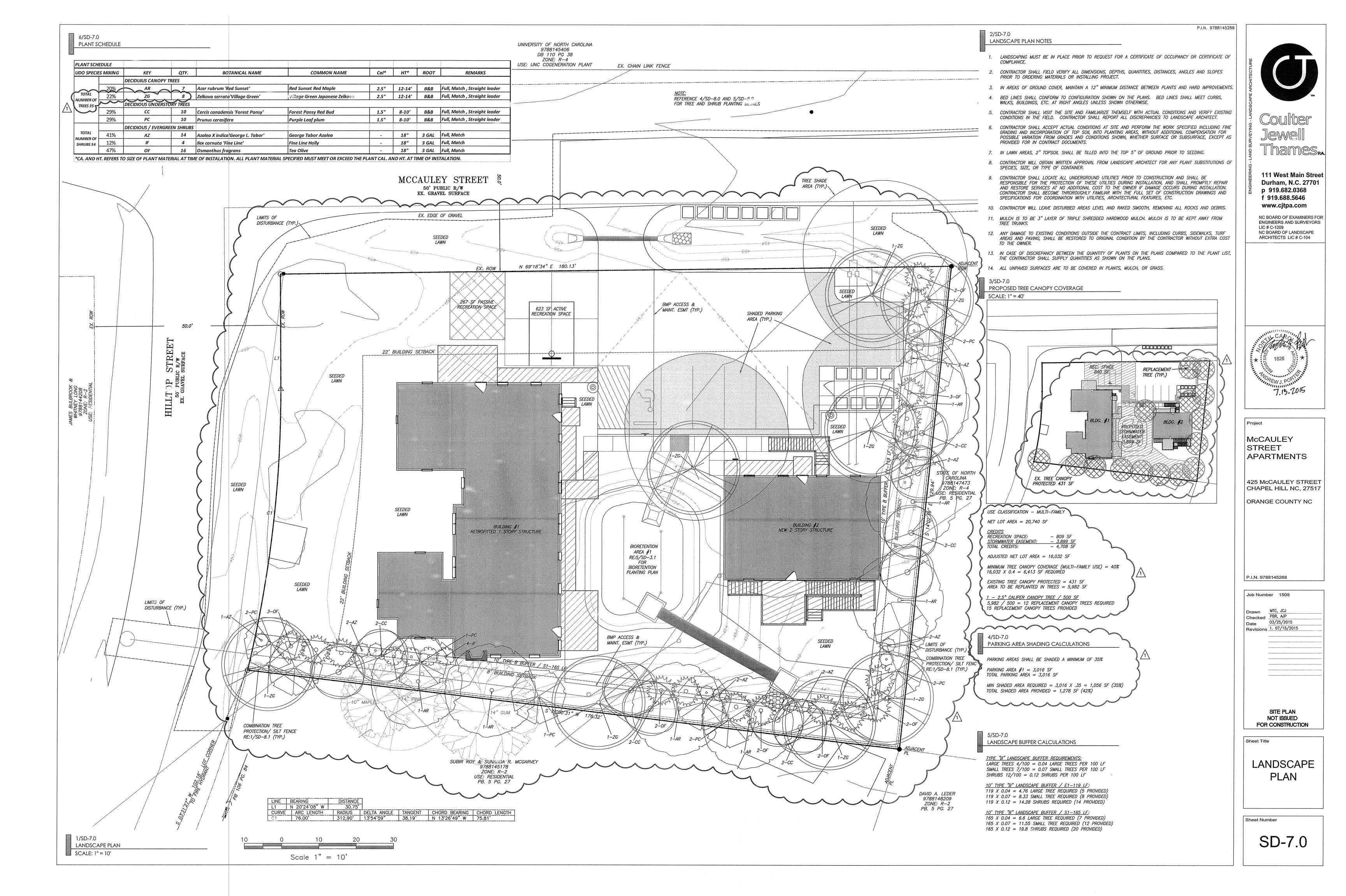
Jewell Thames, **111 West Main Street** Durham, N.C. 27701 p 919.682.0368 f 919.688.5646 www.cjtpa.com NC BOARD OF EXAMINERS FOR ENGINEERS AND SURVEYORS NC BOARD OF LANDSCAPE ARCHITECTS LIC # C-104 E PART

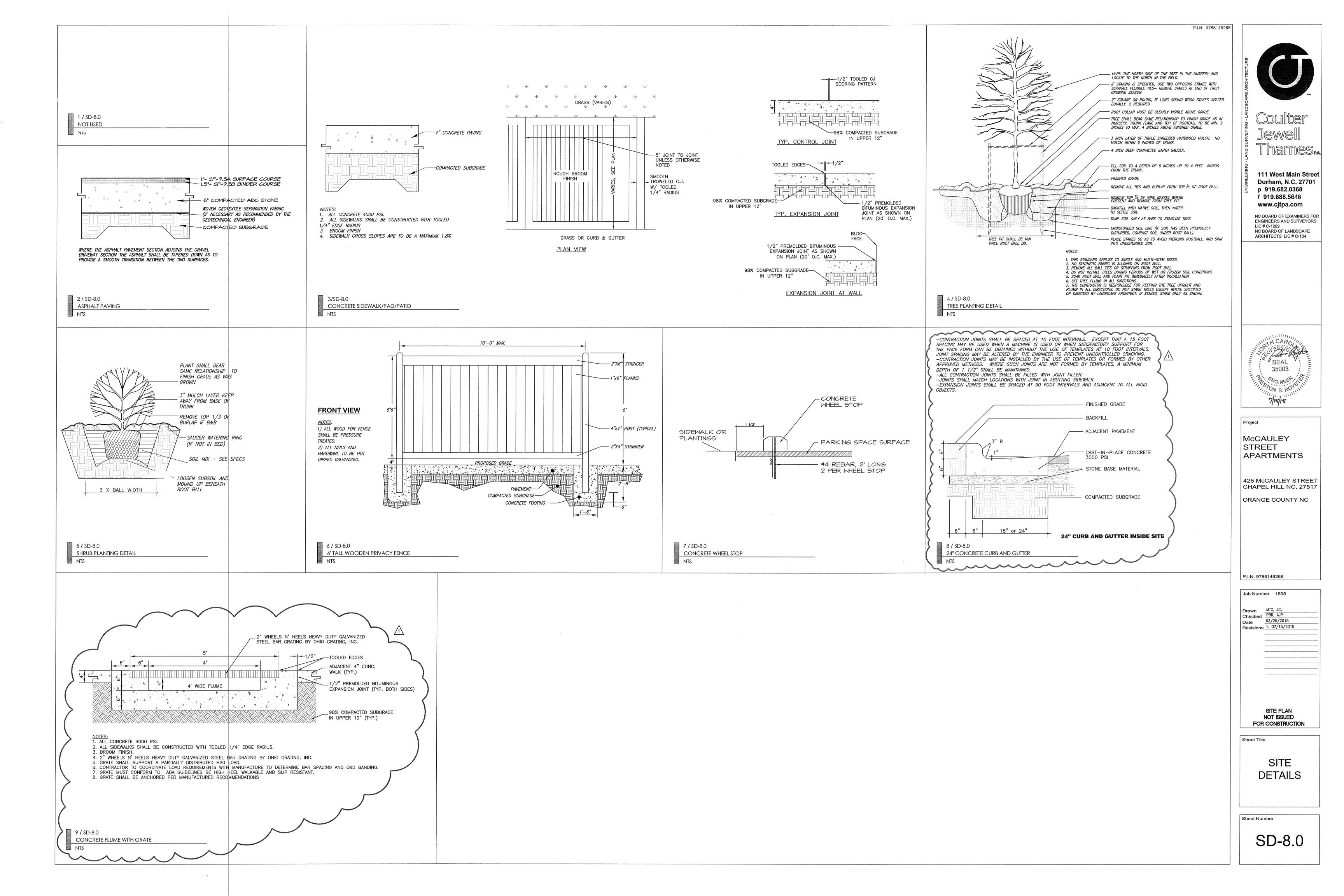
# APARTMENTS 425 McCAULEY STREET CHAPEL HILL NC, 27517

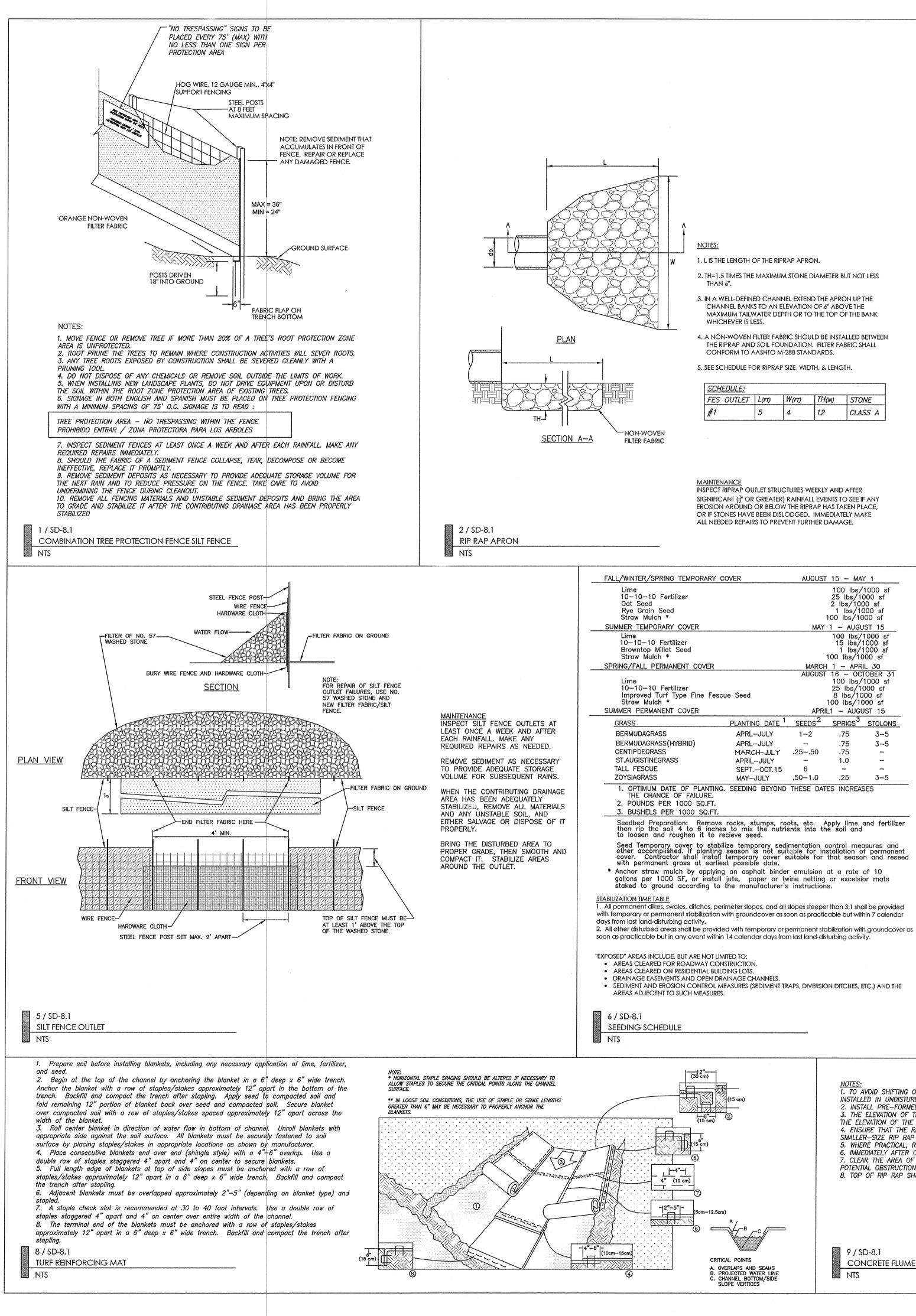
ORANGE COUNTY NC

FOR CONSTRUCTION









#### 1. L IS THE LENGTH OF THE RIPRAP APRON.

- 2. TH=1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS
- 3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK
- 4. A NON-WOVEN FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION. FILTER FABRIC SHALL
- 5. SEE SCHEDULE FOR RIPRAP SIZE, WIDTH, & LENGTH.

SCHEDULE:				
FES OUTLET	L(FT)	W(FT)	TH(IN)	STONE
#1	5	4	12	CLASS A

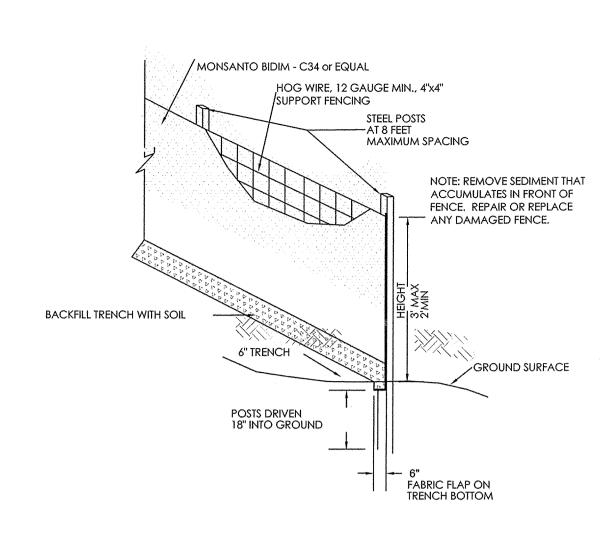
#### INSPECT RIPRAP OUTLET STRUCTURES WEEKLY AND AFTER SIGNIFICANT (1)" OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE

NTER/SPRING TEMPORARY CO	VER	AUGUST	15 - MA	Y 1	
ne -10-10 Fertilizer t Seed e Grain Seed aw Mulch *			100 lbs/ 25 lbs/10 2 lbs/100 1 lbs/10 100 lbs/10	000 sf 00 sf 000 sf 000 sf	
R TEMPORARY COVER		MAY	<u>1 – AUGU</u>		
ne -10—10 Fertilizer owntop Millet Seed aw Mulch *			100 lbs/ 15 lbs/1 1 lbs/1 100 lbs/10	1000 sf 1000 sf	
FALL PERMANENT COVER		MARCH	1 – APRI	L 30	
ne 1010 Fertilizer proved Turf Type Fine Fescu aw Mulch * R PERMANENT COVER	e Seed	APRI	16 - OC 100 lbs/ 25 lbs/10 8 lbs/10 100 lbs/10 _1 - AUGU	1000 sf 000 sf 000 sf 000 sf JST 15	
S	PLANTING DATE 1	SEEDS ²	SPRIGS	STOLONS	
MUDAGRASS	APRL-JULY	1-2	.75	3-5	
MUDAGRASS(HYBRID)	APRL-JULY	_	.75	3-5	
TIPDEGRASS	MARCH-JULY	.2550	.75		
UGISTINEGRASS	APRIL-JULY		1.0		
FESCUE	SEPTOCT.15	6		-	
SIAGRASS	MAY-JULY	.50-1.0	.25	35	
OPTIMUM DATE OF PLANTING. THE CHANCE OF FAILURE.	SEEDING BEYOND	THESE DAT	ES INCREAS	SES	

Seedbed Preparation: Remove rocks, stumps, roots, etc. Apply lime and fertilizer then rip the soil 4 to 6 inches to mix the nutrients into the soil and

Seed Temporary cover to stabilize temporary sedimentation control measures and other accomplished. If planting season is not suitable for installation of permanent cover. Contractor shall install temporary cover suitable for that season and reseed with permanent grass at earliest possible date. * Anchor straw mulch by applying an asphalt binder emulsion at a rate of 10

with temporary or permanent stabilization with groundcover as soon as practicable but within 7 calendar



#### <u>Maintenance</u>

I. Inspect sediment fences at least once a week and after each rainfall. Make any required repairs immediately. 2. Should the fabric of a sediment fence collapse, tear, decompose or become ineffective, replace it promptly. 3. Remove sediment deposits as necessary to provide adequate storage volume for the next rain and to reduce pressure on the fence. Take care to avoid undermining the fence during cleanout. 4. Remove all fencing materials and unstable sediment deposits and bring the area to grade and stabilize it after the contributing drainage area has been properly stabilized.

#### 3 / SD-8.1 SILT FENCE

NTS

Ground Stabilization*				
Site Area Description	Stabilization Time Frame	Stabilization Time Frame Exceptions		
Perimeter dikes, swales, ditches, and slopes	7 days	None		
High Quality Water (HQW) Zones	7 days	None		
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed		
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50 feet in length		
All other areas with slopes flatter than 4:1	14 days	None (except for perimeters and HWQ Zones)		

* "Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impracticable" (Section 11.B(2)(b))

NOTE: BASE BID TO INCLUDE ANY TEMPORARY SEEDING REQUIRED

AREAS TO BE DISTURBED (CUT, FILL, ETC.)-

NOTE: GRAVEL & RIP RAP FILTER BERM BASIN DETAIL IS DESIGNED TO PROTECT EXISTING PIPE INVERTS THAT DRAIN 10 ACRES OR LESS.

<u>Maintenance</u>

7 / SD-8.1

NTS

SHOWN FOR CLARITY)

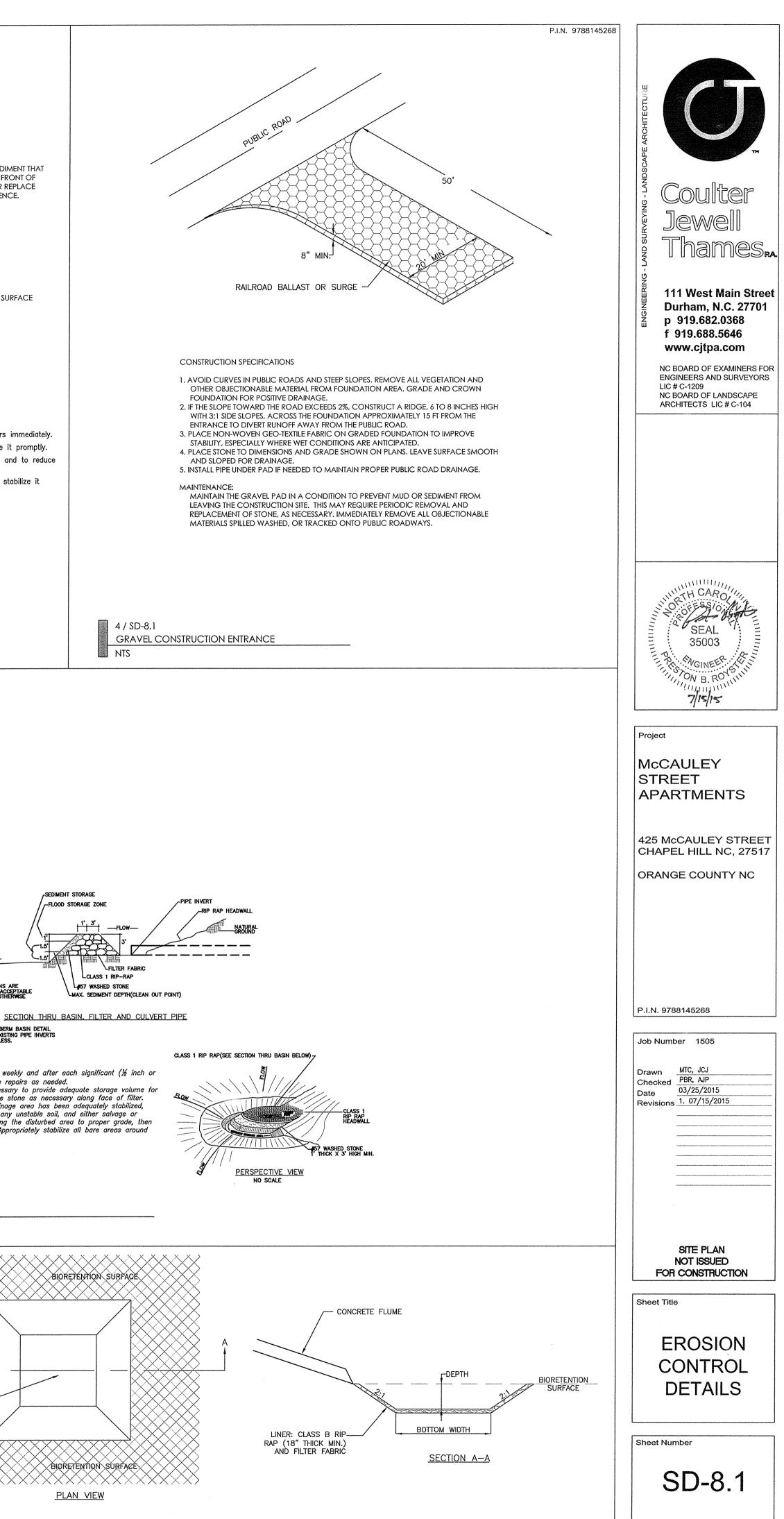
ARCH FILTER

Inspect the filter at least weekly and after each significant (1/2 inch or greater) rainfall and make repairs as needed. Remove sediment as necessary to provide adequate storage volume for subsequent rains. Replace stone as necessary along face of filter. When the contributing drainage area has been adequately stabilized, remove all materials and any unstable soil, and either salvage or dispose of it properly. Bring the disturbed area to proper grade, then smooth and compact it. Appropriately stabilize all bare areas around the inlet.

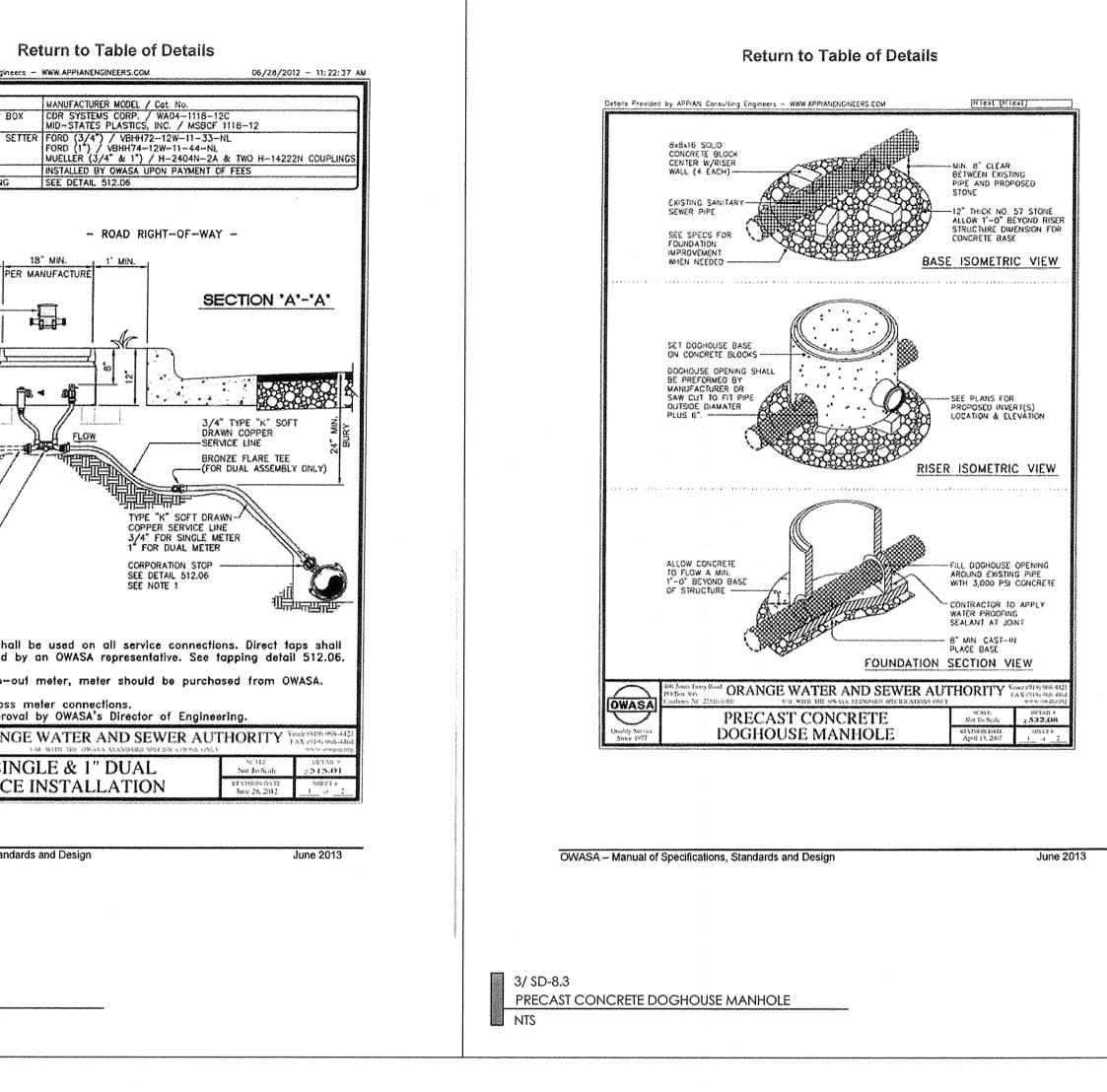
1. TO AVOID SHIFTING OF THE SCOUR HOLE AFTER INSTALLATION, THE SCOUR HOLE SHOULD BE INSTALLED IN UNDISTURBED SOIL INSTEAD OF IN FILL MATERIAL. 2. INSTALL PRE-FORMED SCOUR HOLE AFTER SITE STABILIZATION. 3. THE ELEVATION OF THE TOP OF THE PREFORMED SCOUR HOLE SHOULD BE THE SAME AS THE ELEVATION OF THE BIORETENTION AREA. 4. ENSURE THAT THE RIP RAP CONSISTS OF A WELL-GRADED MIXTURE OF STONE. SMALLER-SIZE RIP RAP STONES SHOULD BE USED TO FILL VOID BETWEEN LARGER STONES. 5. WHERE PRACTICAL, ROUTE OFF-SITE RUNOFF AWAY FROM SCOUR HOLE. 6. IMMEDIATELY AFTER CONSTRUCTION, STABILIZE THE EXIT AREAS WITH VEGETATION. 7. CLEAR THE AREA OF ALL CONSTRUCTION DEBRIS AND CHECK THE EXIT AREAS FOR ANY POTENTIAL OBSTRUCTIONS THAT COULD PROMOTE CHANNELIZED FLOW. 8. TOP OF RIP RAP SHALL BE INSTALLED AT THE SAME ELEVATION AS THE FLUME INVERT.

9 / SD-8.1 CONCRETE FLUME AND PREFORMED SCOUR HOLE NTS

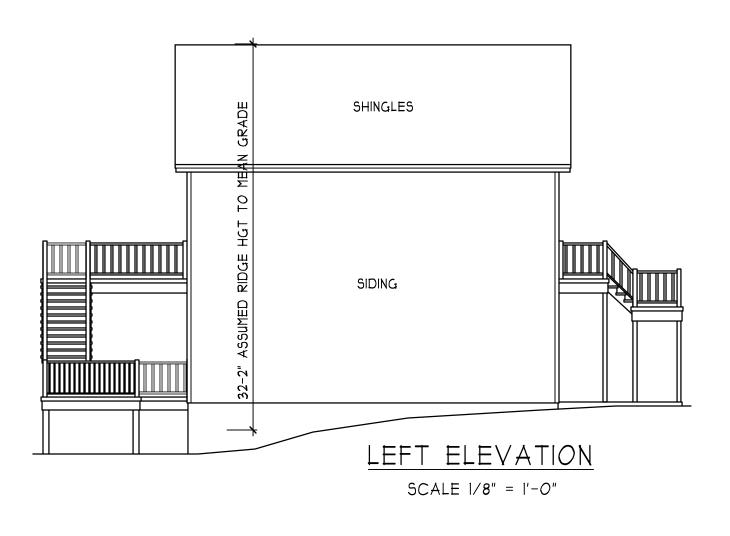
CONCRETE FLUME -SQUARE PREFORMED-SCOUR HOLE (PSH) (RIP RAP IN BASIN NOT

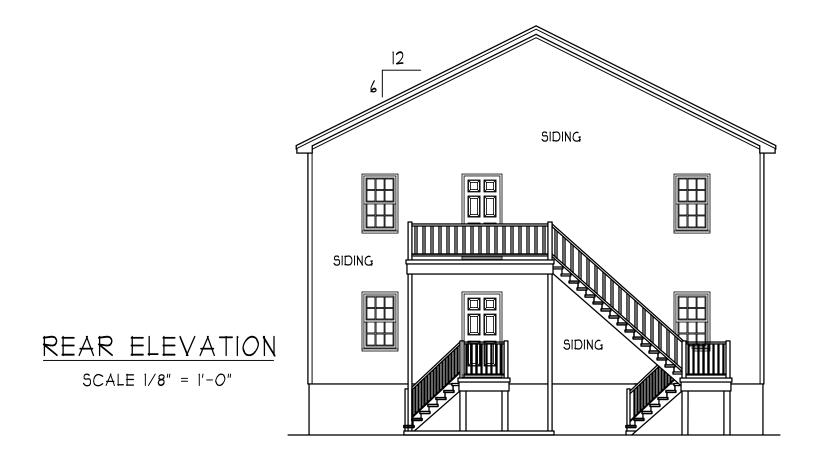


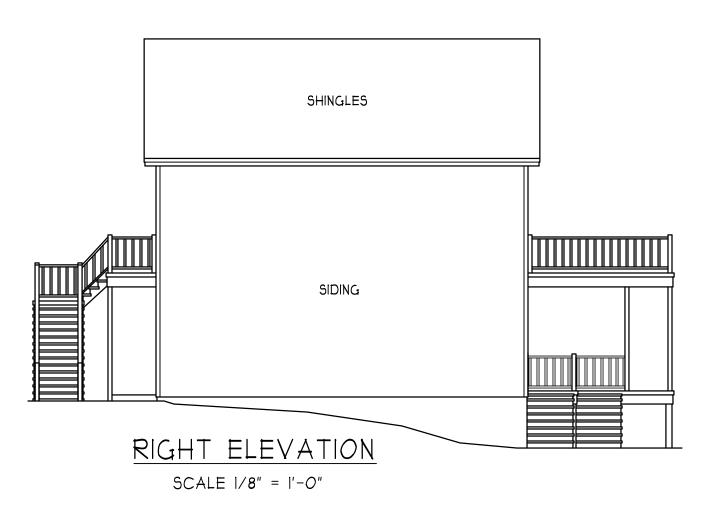
Return to Table of Details	Details Provided by APPIAN Consults
Details Provided by APPIAN Consulting Explosure - WWW.APPIANENCINEERS.COM  10/13/2011 - 1:48: 43 PM  A/C or D.I.P.  A/C or D.I.P.  PART AAMUFACTURER WOORL / Cot, No. SADOLE TAP SEE NOTE 1  SADOLE MURLLER / BRIS OR BR28  CORP. STOP FORD / FSOD SERIES  PVC or C900 SEE NOTE 2  A/4" and 1" A/C, DIP, PVC, or C900	5/8" x 3/4" METER BY OWASA (SEE NOTE 3) METER BOX
NOTES: 1. All bronze saddle (Single or double strap for 3/4" and 1") 2. If 2 tops are made on each side of the main there shall be a minimum of 18" horizontal separation. Multiple tops on the same side shall have a minimum 18" horizontal separation and staggered a minimum of 1" vertically to prevent damage to the main.	4"x8" CONCRETE BLOCK (TYPICAL 4) TO BE INSTALLED BY CUSTOMERS PLUMBER. PLUMBER TO REMOVE EXISTING PLUG AND EXTEND SERVICE METER YOKE 12" RISE WITH LOCK WING STOP & ANGLE CHECK NOTES: 1. Bronze service saddl be made only as dir 2. Omitted
Wasaa         Wasaa         Control for the field of the state of th	3. If installation is for (At applicants expendent) 4. Meter must be level 5. Substitution requires (At applicants expendent) 5. Substitution requires (At applicants expendent) (At applicants expenden
1 / SD-8.3 3/4" WATER TAPPING DETAIL NTS	2 / SD-8.3 3/4" DUAL SERVICE INSTALATION NTS
NEW ABC STONE PATCH TIE TO EX. GRAVEL (TYP.) EXIST. ABC SUB-BASE (TYP.) BACKFILL WITH DIGABLE, FLOWABLE FILL PIPE DIAMETER + 18 INCHES	
<ul> <li>NOTES:</li> <li>1. PATCHES MUST BE REGULAR, SQUARE, OR RECTANGULAR (4 STRAIGHT EDGES).</li> <li>2. FINAL SURFACE MUST BE FLUSH WITH THE EDGE OF EXISTING GRAVEL, VERTICALLY AND HORIZONTALLY, WITH NO SPILLOVER.</li> <li>3. CARE MUST BE TAKEN NOT TO DAMAGE INTEGRITY OR APPEARANCE OF SURROUNDING GRAVEL. IF DAMAGED, THE ENTIRE SURFACE PATCH MUST BE EXPANDED TO COVER DAMAGES.</li> <li>4. ALL STRIPING IMPACTED BY REPAIRS MUST BE REPLACED.</li> <li>5. PROPER TRAFFIC CONTROL AND PLATING OF THE ROAD DURING CURE TIME FOR FLOWABLE FILL MUST BE CONDUCTED APPROPRIATELY.</li> <li>6. THE MAXIMUM TIME TO COMPLETE FULL REPAIR SHALL NOT EXCEED 10 WORKING DAYS.</li> </ul>	
5 / SD-8.3 OPEN CUT AND REPAIR NTS	

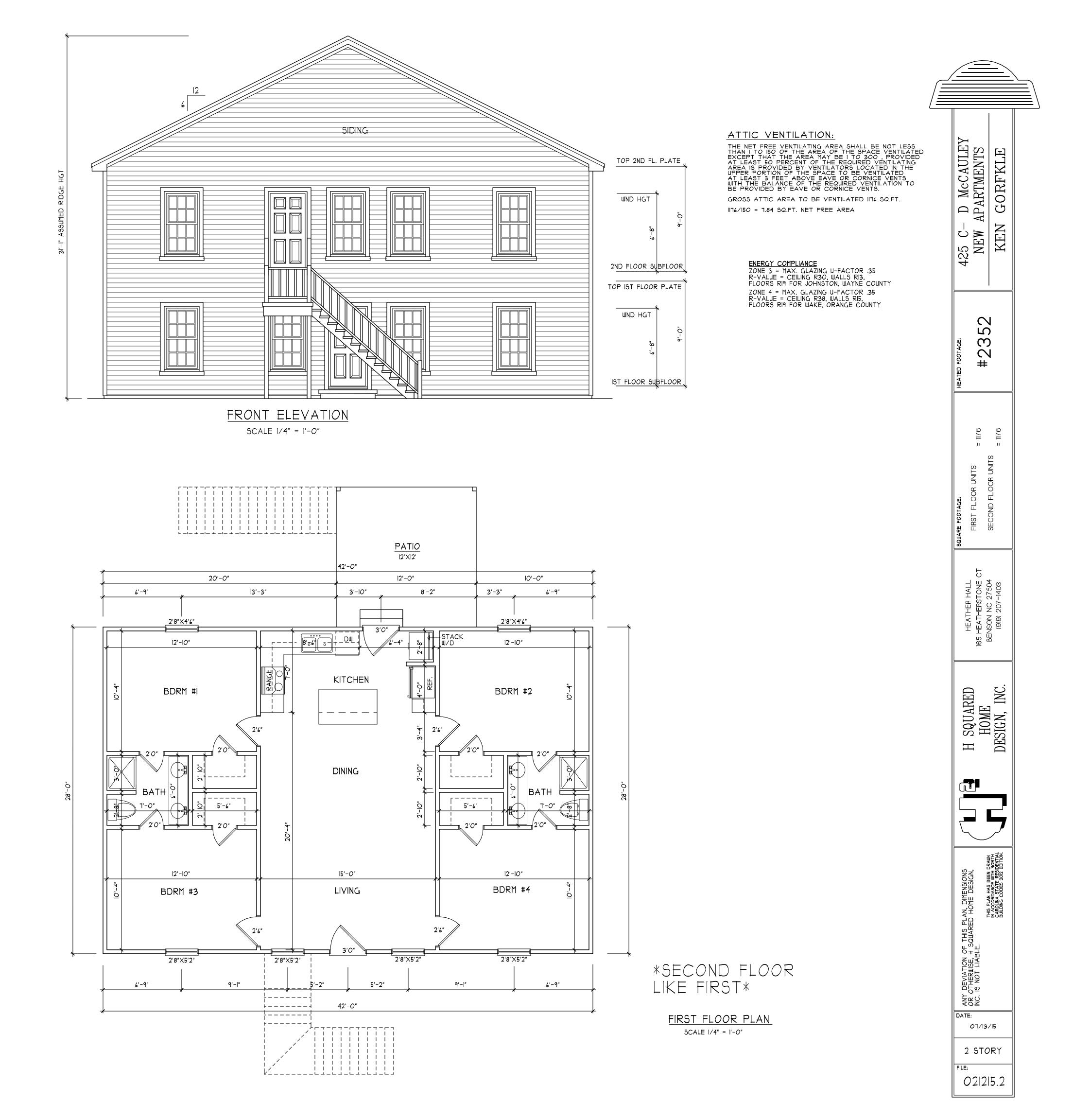


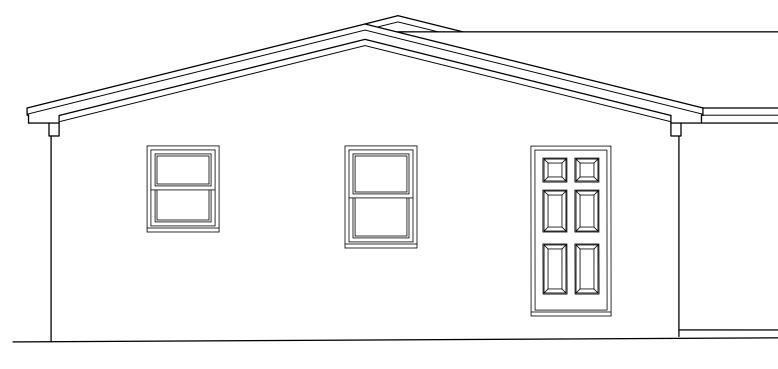
Description       Description	The second secon
2. Service soddles may be used only on existing sewer mains. Tees / Wyes shall be used for new construction, where the set of back terry Rad ORANGE WATER AND SEWER AUTHORITY Vice (0) 00 Mis-800 (0) WIGH Did and Construction (0) Wight Did and (0	SEAL 35003 VGINEER VGINEER
4 / SD-8.3 <u>4" SEWER TAP AND STUB OUT</u> NTS	Project McCAULEY STREET APARTMENTS 425 McCAULEY STREET CHAPEL HILL NC, 27517 ORANGE COUNTY NC
	P.I.N. 9788145268         Job Number       1505         Drawn       MTC, JCJ         Checked       PBR, AJP         Date       03/25/2015         Revisions       1. 07/15/2015
	SITE PLAN NOT ISSUED FOR CONSTRUCTION
	Sheet Number SD-8.3

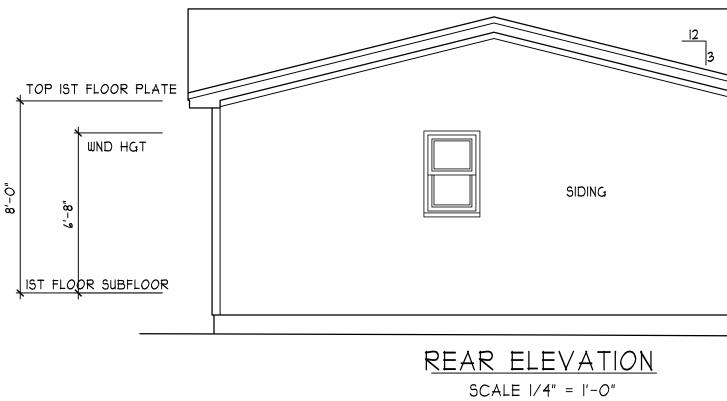


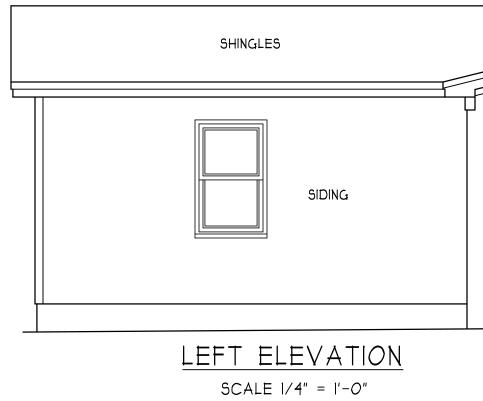






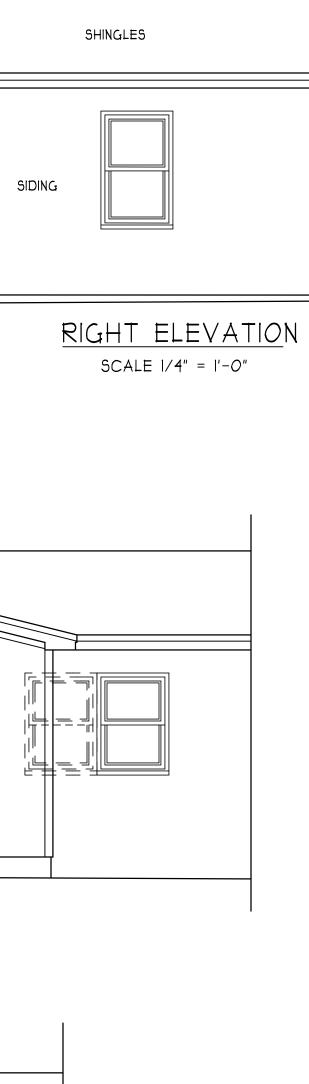


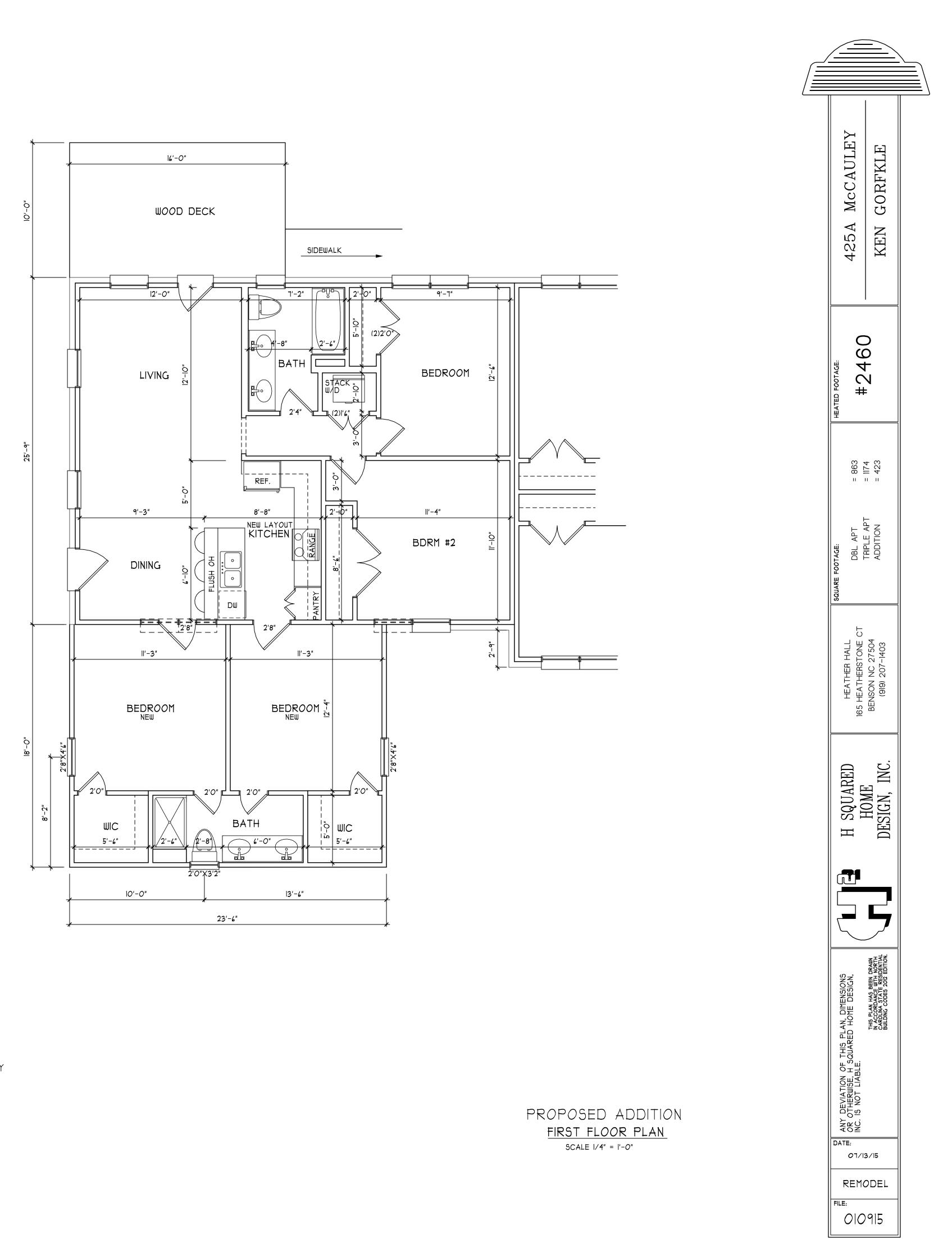




ATTIC VENTILATION:

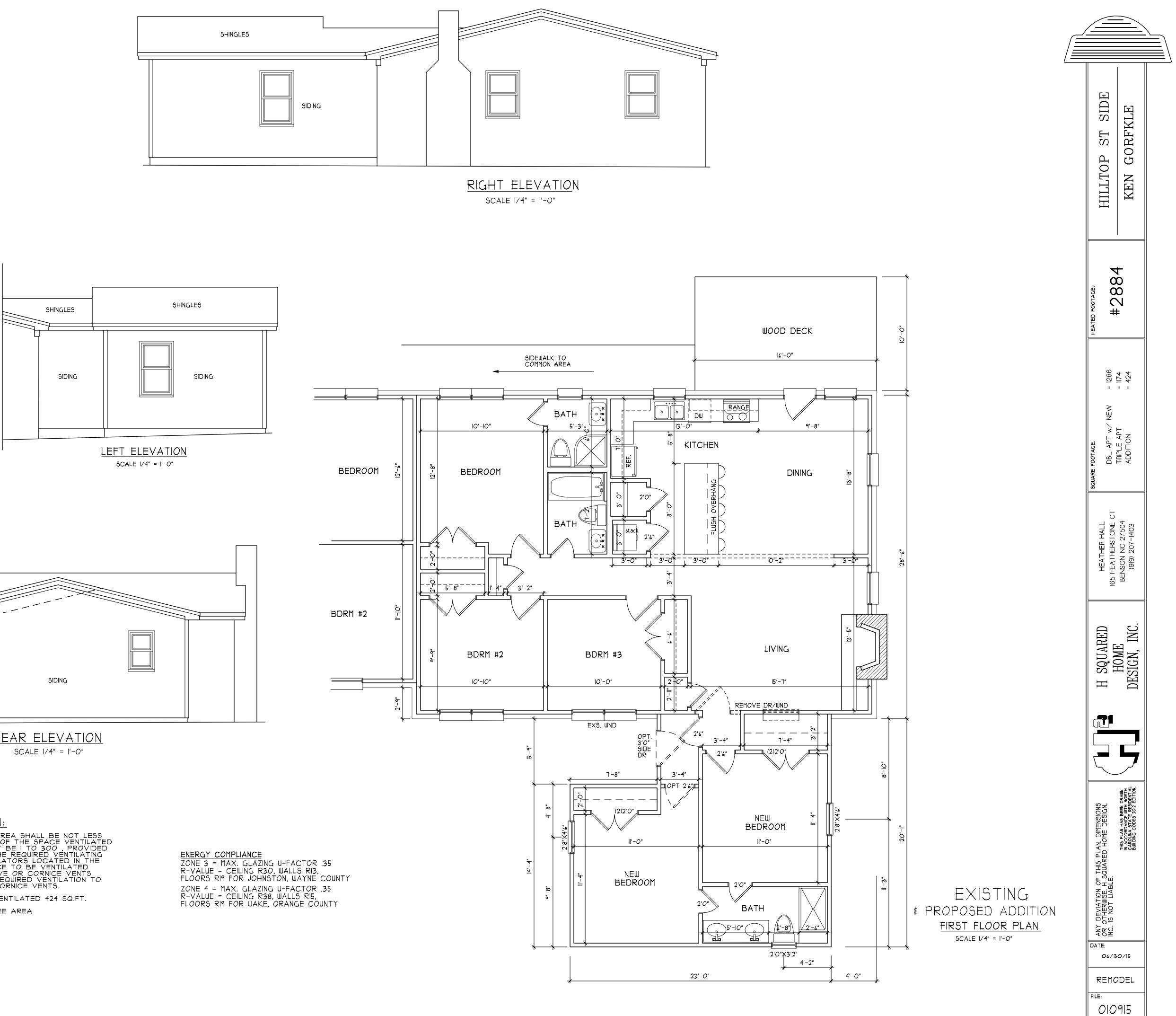
THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN I TO ISO OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE I TO 300 . PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS. GROSS ATTIC AREA TO BE VENTILATED 423 SQ.FT. 423/150 = 2.82 SQ.FT. NET FREE AREA

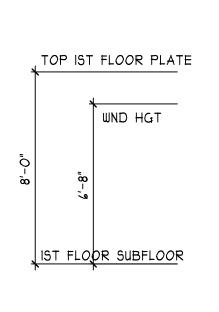


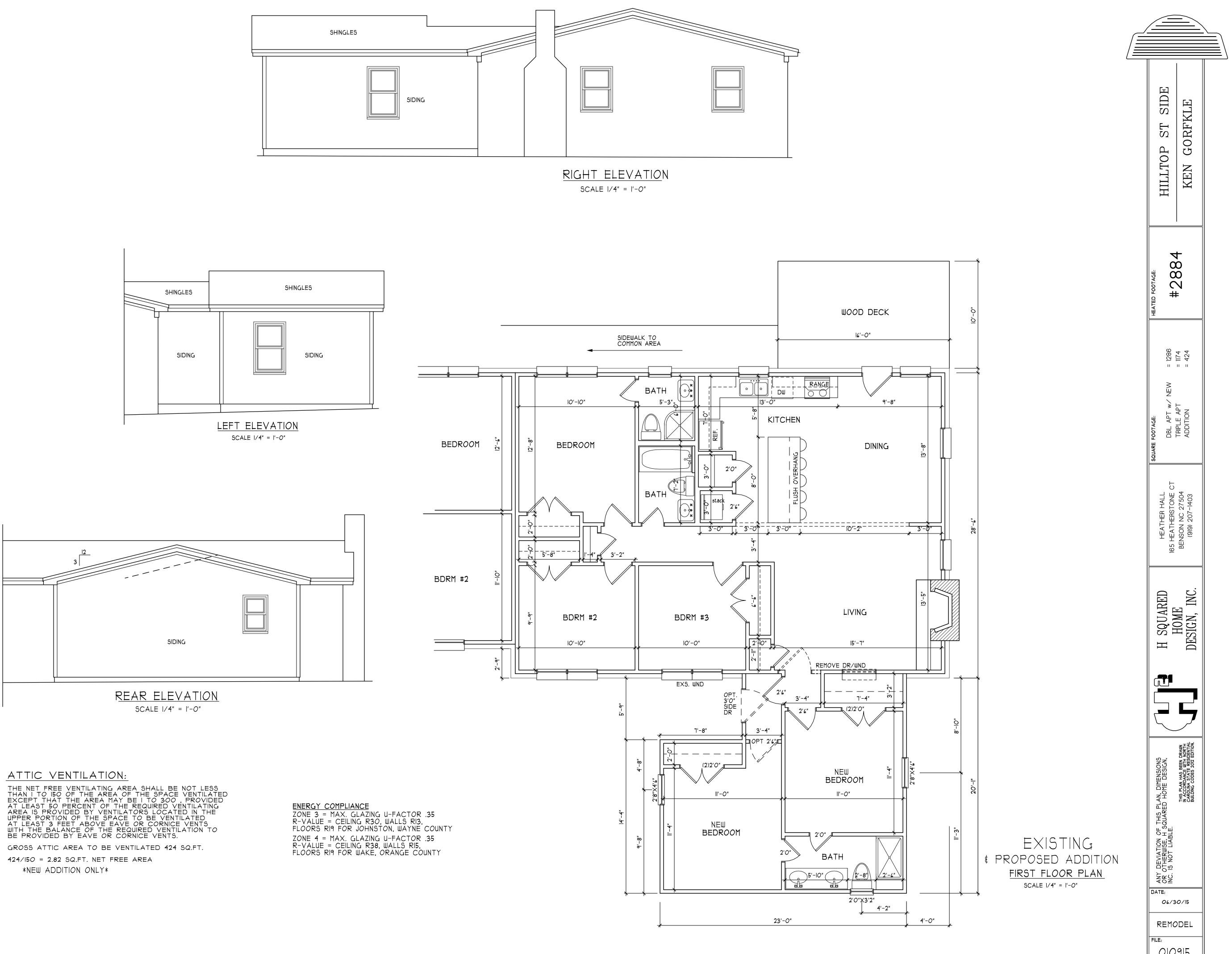




<u>ENERGY COMPLIANCE</u> ZONE 3 = MAX. GLAZING U-FACTOR .35 R-VALUE = CEILING R30, WALLS RI3, FLOORS RI9 FOR JOHNSTON, WAYNE COUNTY ZONE 4 = MAX. GLAZING U-FACTOR .35 R-VALUE = CEILING R38, WALLS RI5, FLOORS RI9 FOR WAKE, ORANGE COUNTY







## ATTIC VENTILATION:

GROSS ATTIC AREA TO BE VENTILATED 424 SQ.FT. 424/150 = 2.82 SQ.FT. NET FREE AREA *NEW ADDITION ONLY*