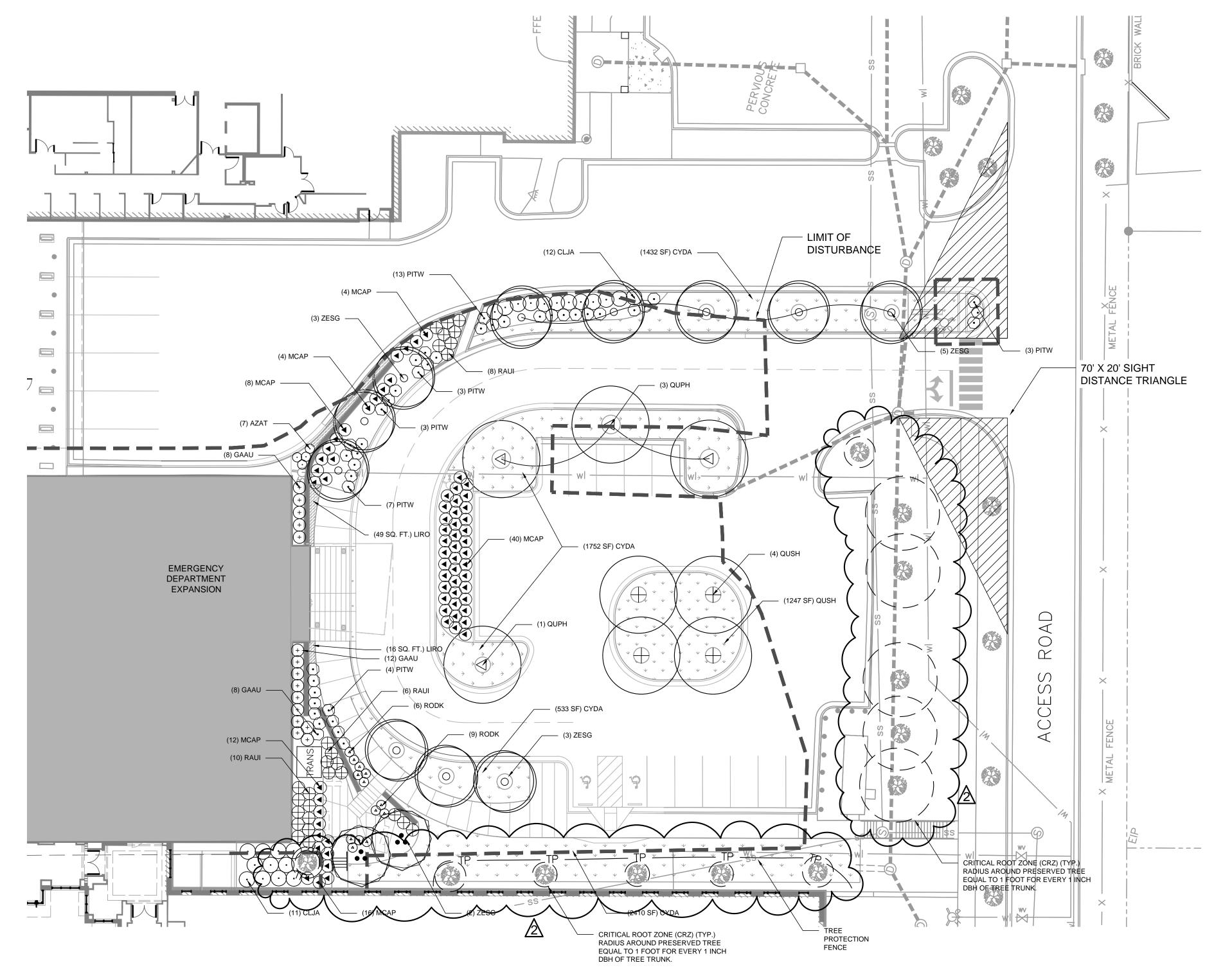
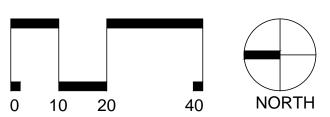
PLANT_S	CHED	III E				
TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	REMARKS
LAGM	2	LAGERSTOEMIA INDICA 'MUSKOGEE'	MUSKOGEE	В&В	2.5" CAL	3 CANE MIN.
QUPH	5	QUERCUS PHELLOS	WILLOW OAK	В&В	3.5"CAL	
QUSH	4	QUERCUS SHUMARDII	SHUMARD RED OAK	В&В	3.5"CAL	
ZESG	13	ZELKOVA SERRATA `GREEN VASE`	SAWLEAF ZELKOVA	B & B	3.5"CAL	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT.	HGT.	REMARKS
AZAT	4	AZALEA ENCORE `AUTUMN TWIST` TM	AUTUMN TWIST AZALEA	3 GAL		
CLJA	23	CLEYERA JAPONICA		3 GAL		
GAAU	15	GARDENIA AUGUSTA `AUGUST BEAUTY`	COMMON GARDENIA	3 GAL		
MCAP	68	MUHLENBERGIA CAPILLARIS	PINK MUHLY	1 GAL		
PITW	42	PITTOSPORUM TOBIRA 'WHEELERS DWARF'	WHEELER'S DWARF MOCK ORANGE	3 GAL		
RAUI	27	RAPHIOLEPIS UMBELLATA 'INDIAN PRINCESS'	INDIAN HAWTHORN	3 GAL		
RODK	13	ROSA X `DOUBLE KNOCKOUT`	ROSE	3 GAL		
				-		
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SF	REMARKS
CYDA	5,968 SF	CYNODON DACTYLON 'TIF 419'	BERMUDA GRASS	SOD		
LIRO	74 SF	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILYTURF	1 GAL		
	•		1			



LANDSCAPE PLANTING PLAN



KEYNOTES

LANDSCAPING NOTES:

1. TREE PROTECTION NOTE: TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS

PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.

ROOT ZONE PROTECTION AREA: VARIES BASED ON LOCAL JURISDICTION HAVING AUTHORITY. CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICTIONAL REQUIREMENTS. NO DISTURBANCE ALLOWED WITHIN THIS AREA. AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARNING SIGNS.

SEED BED PREPARATION: ALL AREAS TO BE SEEDED ARE TO BE RECEIVE A MINIMUM OF 2" OF APPROVED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" ARE TO BE REMOVED. ALL LARGE CONCENTRATIONS OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO BE REMOVED PRIOR TO SEEDING OR PLANTING.

5. ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM OF 6" OF APPROVED TOPSOIL. SOIL SHOULD BE TESTED AND AMENDED WITH LIME AND FERTILIZER FOR HARDWOOD TREES ACCORDING TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. CONSULT LANDSCAPE

ARCHITECT FOR ALTERNATE COMPLIANCE. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT CROWN OF PLANT UNLESS OTHERWISE NOTED. FLARE AT CROWN SHOULD BE REVEALED. BACKFILL CONSISTS OF THOROUGHLY BROKEN UP NATIVE SOIL. TOTAL VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP TO ONE THIRD PINE BARK MULCH. PIECES SHOULD BE NO LARGER THAN WHAT PASSES THROUGH A ONE INCH SCREEN. IF ADDITIONAL SOIL IS REQUIRED FOR BACKFILL DUE TO

DETRIMENTAL SUBSOIL DRAINAGE CONDITIONS, USE SOIL SIMILAR TO EXISTING NATIVE SOIL.

ADDITIONAL SOIL TO BE APPROVED BY LANDSCAPE ARCHITECT. MAXIMUM SAUCER HEIGHT IS

8. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE EXISTING GRADE.

TOTAL HEIGHT OF ROOT BALL.

FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD BE TURNED DOWN BY 1/3 TOTAL HEIGHT OF ROOT BALL. PLASTIC FIBER BURLAP AND WIRE BASKETS SHOULD BE REMOVED TO 2/3'S OF

10. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TREE UPRIGHT AND PLUMB THROUGHOUT THE WARRANTY PERIOD. IF STABILIZATION IS NECESSARY SEE STAKING DETAIL BELOW. ORANGE FLAGGING TAPE SHOULD BE ATTACHED TO SUPPORT WIRE, STAKING SHOULD BE REMOVED BY CONTRACTOR AT END OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED BY GROUNDS MANAGEMENT.

11. USE STANDARD "GATOR" BAGS FOR WATERING TREES IN AREAS NOT UNDER IRRIGATION. INCORPORATE TERRA-SORB (OR EQUAL) AS PER MANUFACTURERS RECOMMENDATIONS, FOR AREAS NOT UNDER IRRIGATION.

12. USE "BIO-BARRIER" OR EQUIVALENT ACCORDING TO MANUFACTURER'S RECOMMENDATION FOR TREES THAT WILL BE PLANTED WITHIN 10' OF PAVEMENT

13. LANDSCAPING/C.O. STANDARDS NOTE: ALL LANDSCAPING MUST BE IN PLACE PRIOR TO PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE

SITE IRRIGATION NOTES:

1. UTILITIES - The contractor shall be mindful to and respectful of other active utilities and services in and around this site. The contractor is responsible for locating these to avoid damage to them. EXISTING INFRASTRUCTURE - The contractor shall make any necessary adjustments in the proposed irrigation system to avoid damage to existing structures, paving and utilities

The irrigation contractor is responsible to confirm work area release from the landscape contractor &

EXISTING INFRASTRUCTURE - The contractor shall be responsible for any damage to existing utilities, structures, paving, or other construction resulting from irrigation construction. LINE LOCATIONS - the contractor shall locate all lines in such a way as to cause the least conflict with the location of proposed plant materials and other site improvements. AVOID DAMAGES - All scheduling of work must be coordinated to avoid damages to completed work.

General Contractor prior to start of work. CODES, ORDINANCES, & REQUIREMENTS - (A)The contractor shall comply with all codes, ordinances, and requirements of authorities having jurisdiction (AHJ). The irrigation plan must be approved by all authorities having jurisdiction prior to installation. (B) The irrigation system shall be designed to be efficient and uniformly distribute water by

selecting the proper equipment and installation techniques to meet all state and local Codes and the sites's requirements. (C) All irrigation system products shall meet Owner's requirements. Confirm Owner's product requirements prior to submitting bid.

IRRIGATION PLAN - (A)The contractor is responsible to submit an AHJ compliant irrigation plan to the Owner for review & approval FOUR WEEKS prior to start of installation. The plan must show valve locations, isolation valve/s, separate drip, turf, and annual flower bed zones, meter/back-flow preventer location/s, clock location/s, 1.5" fill-up location/s, & all quick-coupler locations. (B) All irrigation plans shall be prepared and installed by a Licensed Irrigation Contractor per the NC

Irrigation Contractors Licensing Board (NC General Statute 89G). WATER METER - (A) At the time of bidding, the landscape contractor is responsible to inform the General Contractor of the size of water meter required. (B) The landscape contractor is responsible to verify which subcontractor is accountable for the water meter budget and installation. (C) The irrigation bid (unless otherwise instructed) shall include the cost for a water meter & back-flow preventer per AHJ standards.

PLAN REVISIONS - All work adjustments and inspections shall be subject to the approval of the landscape architect &/or Owner. CONTRACTOR RESPONSIBILITY - The contractor shall be responsible for all materials and labor to fully execute and guarantee the work as required. ACCEPTANCE - (A)The contractor shall verify all quantities to assure adequate installation of the

system. At completion of irrigation installation, the irrigation contractor is responsible to schedule an irrigation acceptance review with the landscape contractor &/or Owner. The contractor is to demonstrate the complete operating ability of the system. The contractor is responsible for any corrections to the system per the irrigation plan prior to complete acceptance. (B) The contractor is responsible to provide an Operations Manual and instruction session with the Owner's representative upon completion of the work.

CONTROL CLOCKS - The location of the control clocks will be specifically located on site by the landscape contractor or the Owner. 13. SLEEVES - (A)The landscape contractor is responsible to visit the site and verify with the General

Contractor locations for all irrigation sleeves during grading. (B) Sleeving is to be placed 12"-18" min. below walks and 30" under vehicular surface areas. 14. MAIN LINES & LATERAL LINES - All main lines shall be installed a maximum of 2 feet from the back of

curb where possible. Lateral lines shall be installed likewise where possible. WATER MANAGEMENT - (A)The contractor shall adjust the radius and arc of each head to minimize 'overthrow' and to eliminate 'dry spots.' Irrigation plan must comply with AHJ water management (B) All landscape irrigation shall employ Best Management Practices designed to save water and

protect water quality. (C) The irrigation shall be designed & installed to provide 100% coverage within scheduled areas. No throw of water is permitted over walks, drives, onto paved or building surfaces. 16. COVERAGE - The contractor shall be responsible for the supply and installation of additional heads needed to cover 'dry spots. VALVE BOXES - All valve boxes are to be located in plant beds or natural areas (not in sod) whenever

possible. Exceptions will be allowed if there is no such area within a 40' radius of the designated control valve location, no more than two valve boxes are to be located in one specific area. Do NOT cover valve boxes with mulch. They must be visible & accessible. ELECTRICAL SERVICE - The electrical service will be stubbed out at the control clock location by the Owner. The irrigation contractor shall be responsible for all electrical connections from the provided

120 volt service to the control clock and the 24 volt field wiring to the control valve. 19. HOT BOX - Install Hot Box w/GFI (power) at back-flow to protect back-flow in winter. Coordinate with General Contractor for power to the receptacle. CONTROL CLOCKS - Each control clock has stations that are not being utilized. For every vacant

station, a field wire is to be installed to the furthest control valve location in any one direction from the control clock. One spare wire shall be installed in case of a faulty wire. WARRANTY - The newly installed components of the system shall be unconditionally guaranteed by the irrigation contractor against all effective work and materials for a period of one year following the

AS-BUILT - The contractor shall be responsible at the time of completion for providing "as built" drawings, to include location of valves (automatic, manual and wire splices) with translated measurements to each, as well as any deviation in location of piping. "As-Built" must show meter/back-flow location, clock/s locations, 1.5" fill-up location, & quick-coupler locations.

23. PLANTING AREAS - The irrigation contractor is responsible to have all planting areas laid out by the landscape contractor prior to installation. 24. QUICK COUPLER CONNECTIONS - The contractor to install 5/8" quick coupler connections every

(B) Separate spray zones are required for annual flower beds. Use 12" pop-up spray heads. (C) In plant beds, install a drip system using solid pipe and pressure compensating emitters. Emitters to be placed on the rootballs. Secure emitters with sod staple or approved equal. Space at 2'OC min. to reach each rootball. The number of emitters per plant is based on plant size. 26. FLOWER POTS - Flower pots are required to have drip irrigation unless approved by the Owner

SPRAY HEADS - Space all irrigation heads a min. of 2" from hard surfaces. 28. FILL-UP LOCATION - At least (1) 1.5" fill-up location is required per site. The location should be easily accessible to a curb but in an inconspicuous location, such as near a dumpster pad. The location/s must be shown in plan & approved by the Owner and Landscape Architect.

$\underline{ \ \ \, } \ \ \, \text{The irrigation bid pricing shall include, but not be limited to, the following:}$

25. ZONES - (A) Irrigate turf zones and plant beds separately.

A. Irrigation Layout Plan size & location of all irrigation lines type & location of irrigation heads

date of substantial completion.

spray patterns locations of drip irrigation

sleeving (locations, size, & field marking specifications to be used during installation and coordination with the General Contractor) review & incorporate any sleeving information from the Civil Plans; for any sleeving conflicts between

the Civil plan & the Irrigation plan, the irrigation contractor is responsible to notify the Owner in

B. Itemized Materials List manufacturer

size (diameter of lines, number of zones, etc.) 3. all quantities

C. Components List back-flow preventer with size

external time clock (water tight & locking) 3. rain gauge & bypass switch

meter size 5. irrigation controller with sufficient independent programs with multiple start times to meet the needs 6. hot box with power



MAIN **ED RENOVATION &**

2131 S 17th St. Wilmington, NC 28401

DESIGNER

8208 BROWNLEIGH DRIVE RALEIGH, NORTH CAROLINA 27617 T 919 460 6700 F. 919.460.6733 www.bbh-design.com

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Description 01/21/2015 RESPONSE TO CITY COMMENTS 03/10/2015 RESPONSE TO CITY COMMENTS

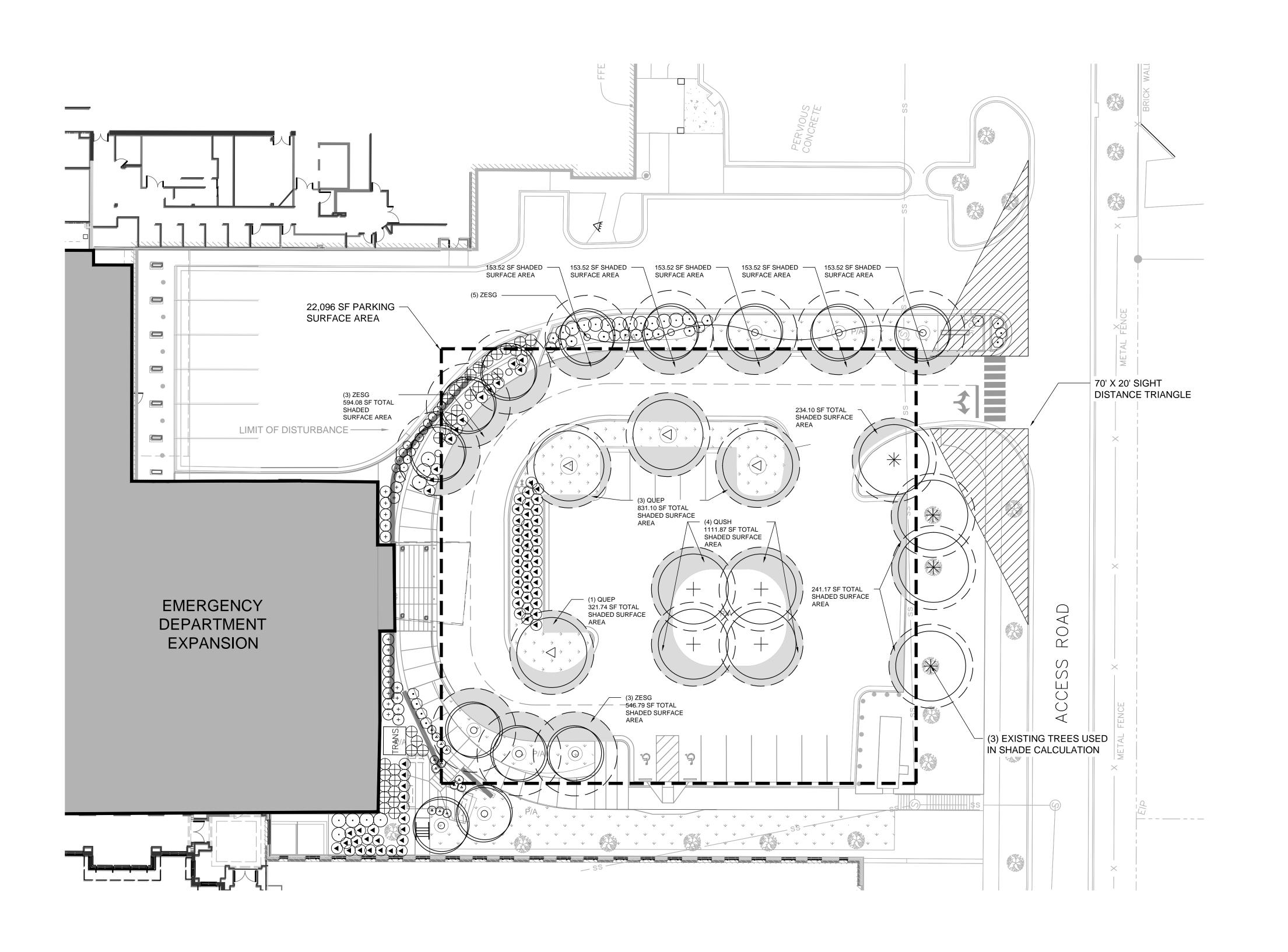
PROJECT NO: P1427.00

CHECKED BY: Checker QC BY:MB 1.30.2015 DESIGN DEVELOPMENT

KEY PLAN

SHEET TITLE

LANDSCAPE PLANTING PLAN



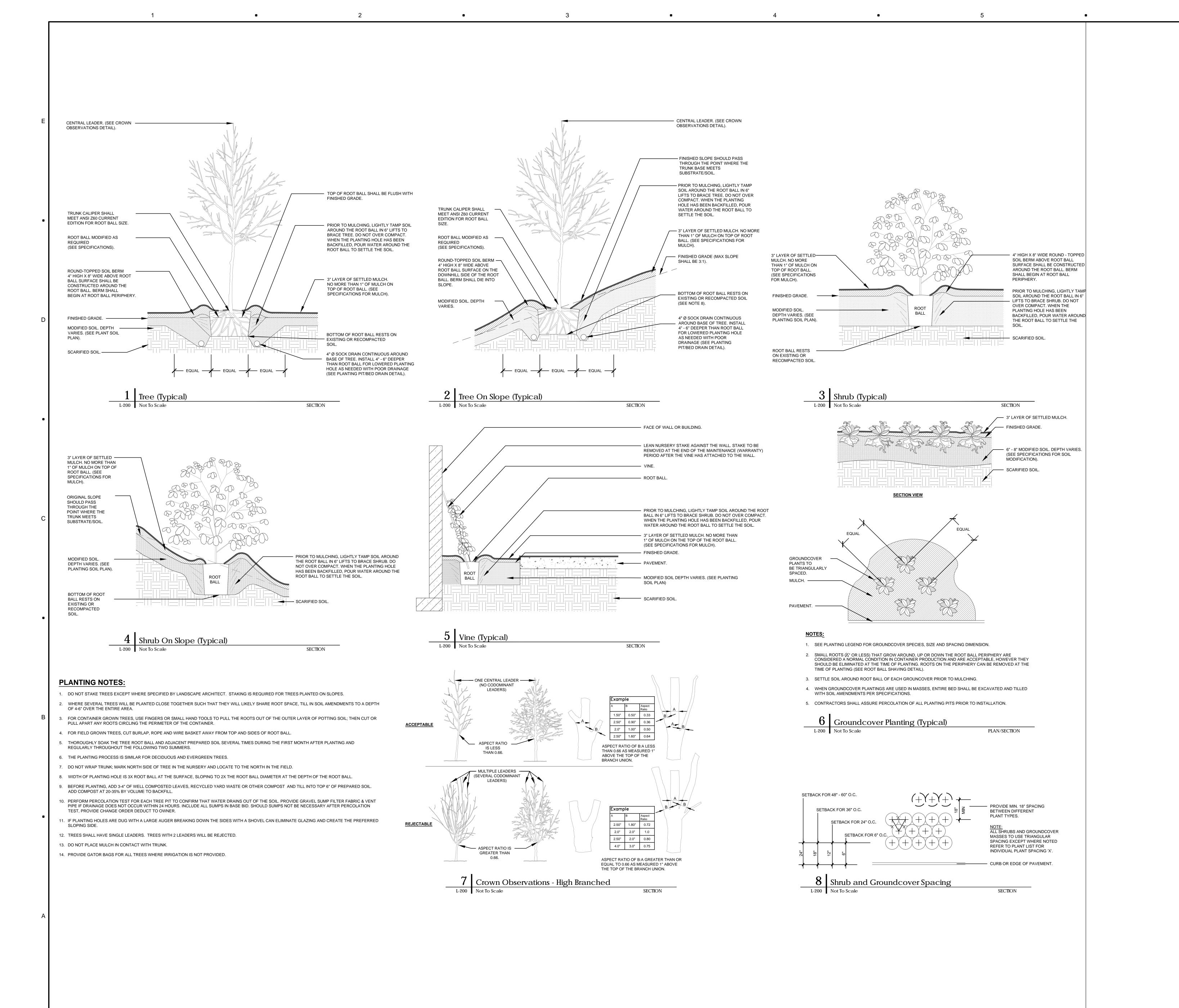
PARKING AREA SHADE PLAN

1" = 20'

New Hanover Regional Medical Center MAIN **ED RENOVATION & ADDITION** 2131 S 17th St. Wilmington, NC 28401 8208 BROWNLEIGH DRIVE RALEIGH, NORTH CAROLINA 27617 T. 919.460.6700 F. 919.460.6733 www.bbh-design.com c BBH Design, PA
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are Reserved. For exceptions, refer to the Owner-Architect Agreement. REGISTRATION **KEYNOTES** TOTAL SURFACE PARKING AREA: 22,096 SF 20% MINIMUM SHADE REQUIREMENT: 4,420 SF PARKING SHADE AREA PROVIDED: 4,548.45 SF PRELIMINARY - DO NOT USE FOR CONSTRUCTION **PLANTING LEGEND** Description Date 01/21/2015 RESPONSE TO CITY COMMENTS QUERCUS SHUMARDII -SHUMARD RED OAK QUERCUS PHELLOS - WILLOW OAK ZELKOVA SERRATA 'GREEN VASE' - GREEN VASE ZELKOVA EXISTING TREE QC BY:MB CHECKED BY: Checker 12/23/2014 CLEYERA JAPONICA SHADE COVERAGE CALCULATION GARDENIA JASMINOIDES 'AUGUST BEAUTY' KEY PLAN RAPHIOLEPIS INDICA 'MONTO' MUHLENBERGIA CAPILLARIS PITTOSPORUM TOBIRA 'WHEELER'S DWARF' ENCORE AZALEA 'TWIST' ROSA X 'RADTKOPINK' P.P. - PINK DOUBLE KNOCK OUT ROSE TIFWAY 419 BERMUDA TURF SHEET TITLE

PARKING AREA SHADE PLAN

L301



CLIENT



MAIN ED RENOVATION & ADDITION

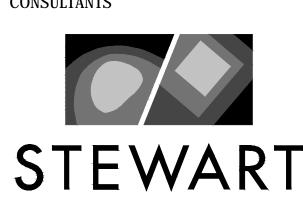
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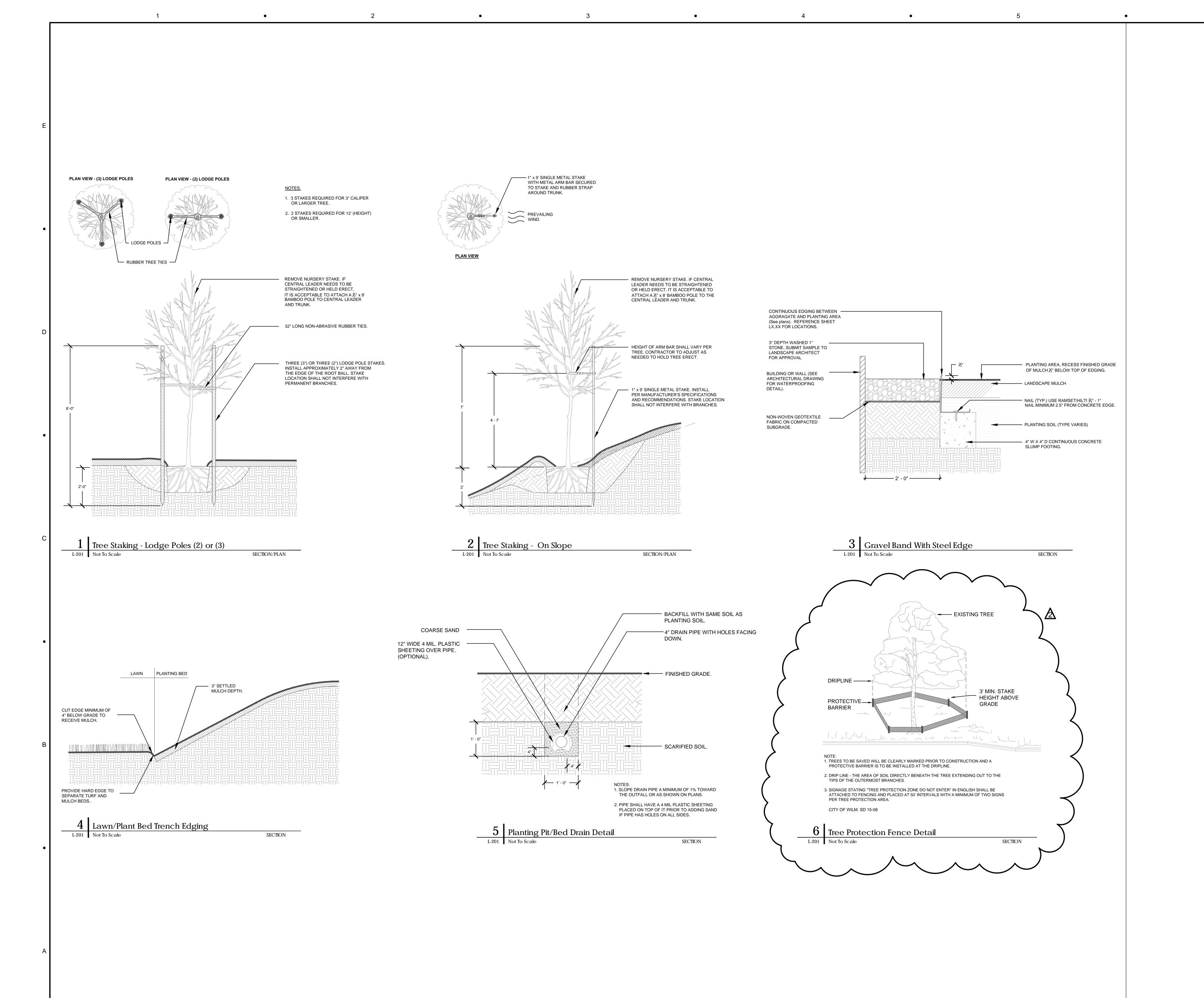
DESIGN DEVELOPMENT

SHEET TITLE

KEY PLAN

PLANTING DETAILS MODIFIED SOILS

L301



CLIENT



MAIN ED RENOVATION & ADDITION

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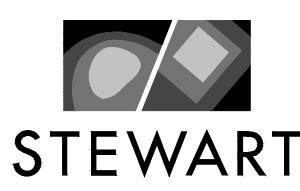
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CHECKED BY: Checker QC BY:
DATE: 1.30.2015

DESIGN DEVELOPMENT

P1427.00

KEY PLAN

SHEET TITLE

PLANTING DETAILS MISCELLANEOUS

L302