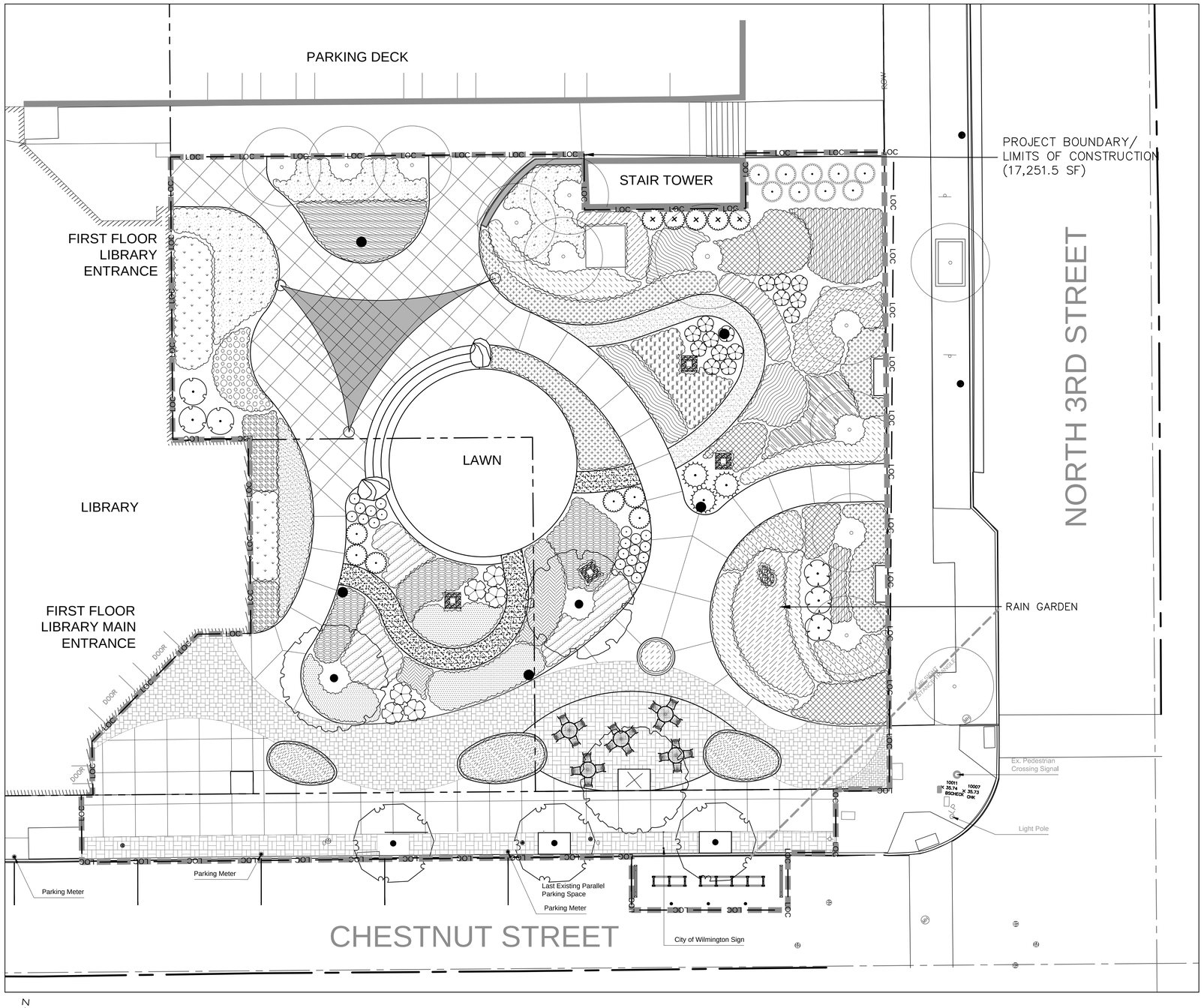
# Public Library Story Park

## Construction Plans / Bid Documents

NEW HANOVER COUNTY
209 CHESTNUT STREET, WILMINGTON, NC

January 22, 2016

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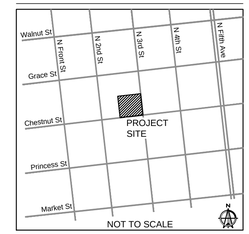
SCALE: 1"=10'

10 5 0 10 20 30

VICINITY MAP




CITY OF WILMINGTON NORTH CAROLINA

Construction Approval Block

Date:_____ Name:_____

Planning: _____

Traffic: _____

Fire: _____

Engineering: _____

Permit #: _____

DRAWING INDEX: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**SITE DATA:**

| | |
|---|---|
| Site Address: | 209 Chestnut Street Wilmington, NC |
| New Hanover County Pin #: | R04817-016-009-000<br>R04817-016-008-000 |
| Owner: | New Hanover County |
| Developer: | New Hanover County |
| References: | DB: 1160 PG: 19, DB: 1520 PG: 90 |
| Total Parcel Acreage: | 0.3398 + 0.065 = 0.4048 acres |
| Zoning on both parcels: | CBD - Central Business District |
| Total Parking Deck Size: | Existing<br>*2,346.94 SF on project site |
| Total Library Size: | 96,960 SF |
| Basement: | 24,240 SF |
| 1st Floor: | 24,240 SF |
| 2nd Floor: | 24,240 SF |
| 3rd Floor: | 24,240 SF |
| Building Setbacks: | n/a |
| Required: | n/a Proposed: n/a |
| Building Heights: | Existing Parking Deck: 70' / 7 stories<br>Existing Library: 90' / 3 stories |
| Pre-development Impervious Surface: | On Site: 6,939 SF / 0.16 acres<br>Off Site (In R/W): 1,667 SF / .04 acres |
| Post-development Impervious Surface: | On Site: 6,322 SF / 0.14 acres<br>Off Site (In R/W): 1,557 SF / 0.04 acres |
| On Site Impervious Surface Reduction: | 607 SF / 0.014 acres |
| Demolished Impervious Surface: | On Site: 6,445 SF / 0.15 acres<br>Off Site (In R/W): 1,536.4 SF / 0.03 acres |
| Newly Constructed Impervious Surface: | On Site: 6,322 SF / 0.14 acres<br>Off Site (In R/W): 1,557 SF / 0.04 acres |
| Building Lot Coverage: | n/a |
| Off Street Parking - | 250 dedicated spaces in the County parking deck. 5 are accessible.<br>Total of 820 spaces in parking deck. 16 total accessible spaces. |
| Bicycle Parking - | 15 bicycle parking spaces required / 16 provided. |
| CAMA Land Use: | Urban |

LANDSCAPE ARCHITECT:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT C-110 OBS LANDSCAPE ARCHITECTS

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 549 BRYAN H. STARNES


obs landscape architects
po box 28504
raleigh nc 27611
919-755-0046
obsla.net

## GENERAL NOTES:

1. Contractor shall inspect site prior to bidding and start of work; verify existing conditions match plans and accept site, or report any discrepancies immediately to the owner.
2. Limits of construction activities will adhere to those clearly indicated on the plans unless designated otherwise.
3. Contractor is responsible for scheduling all pre-construction meetings with all applicable governing jurisdictions. Contractor is responsible for obtaining and paying for all permits, inspections, and certifications that may be required.
4. All work shall be in accordance with New Hanover County, Wilmington, & NCDOT standard specifications and details.
5. Contractor shall keep job site free of trash and garbage, and shall immediately collect any construction-related debris or trash that is on right of way or adjoining properties.
6. Construction fencing to be installed prior to any demolition or construction activities. Fence to be 6' high chain link with lockable gates. Fence shall be maintained throughout construction and relocated as needed during construction to maintain building egress and coordinated with the Fire Marshall.
7. Tree protection fence is to be installed prior to any construction and be maintained throughout construction and removed accordingly after construction. Location to be approved by landscape architect prior to disturbance.
8. All soil erosion control measures required shall be installed prior to grading, clearing, or grubbing. All erosion control devices such as silt fences, etc., shall be maintained in workable conditions for the life of the project and shall be removed at the completion of the project only on the landscape architect's approval. If during the life of the project, a storm causes soil erosion which changes finish grades or creates "gullies" and "washed areas", these shall be repaired, and all silt washed off the project site onto adjacent property shall be removed at no extra cost to the owner. The contractor shall adhere to any approved erosion control plans whether indicated in the construction plans or under separate cover.
9. Contractor shall restore any facilities or utilities damaged during construction.
10. Any discrepancies in plans, or departure from plans shall be reported to the landscape architect immediately, and no work shall continue on affected issue until directed by landscape architect.
11. Prepare and maintain on job site 'as-built' plans. Contractor to prepare and maintain 'as built' plans. Contractor responsible for the preparation and delivery of as built drawings to the owner.
12. Finish grade tolerances shall be as noted in the specifications. The landscape architect may make minor grade changes as required in the field without effecting the unit bid price for unclassified excavation.
13. Entire area to be graded shall be cleared and grubbed. No fill shall be placed on any area not cleared and grubbed.
14. The contractor is responsible for the coordination and adjustment of all utility surface accesses whether he performs the work or a utility company performs the work.
15. The contractor shall control all "dust" by periodic watering and shall provide access at all times for property owners within the project area and for emergency vehicles. All open ditches and hazardous areas shall be clearly marked in accordance with the specifications.
16. The contractor shall enter and exit the site via the temporary construction entrance as detailed in the drawings.
17. All work must comply with North Carolina State Building and Handicapped Accessibility Code.
18. Prevent spilling of fuels, lubricants, coolants, hydraulic fluids, and any other petroleum products onto the ground or into surface waters. Dispose of spent fuels appropriately. As per law, contractor is responsible for all costs associated with hazardous material spills including remediation.
19. DISPOSABLE MATERIAL
    - 19.1. Clearing and grubbing wastes shall be removed from the site and properly disposed of by the contractor at his expense, unless specified otherwise. Solid wastes to be removed, such as sidewalks, curbs, pavement, etc., shall be removed from the site as required by the specifications.
    - 19.2. Abandoned utilities such as culverts, water pipe, hydrants, castings, pipe appurtenances, utility poles, etc., shall be the property of the specific utility agency, or company having jurisdiction. Before contractor can remove, destroy, salvage, reuse, sell or store for his own use any abandoned utility, he must present to the owner written permission from the utility company involved.
    - 19.3. The open burning of trees, limbs, stumps and construction debris associated with this development is prohibited.

## CITY OF WILMINGTON GENERAL NOTES:

1. Prior to any clearing, grading, or construction activity, tree protection fencing shall be installed around protected trees or groves of trees. No construction workers, tools, materials, or vehicles are permitted within the tree protection fencing.
2. Any trees and/or areas designated to be protected must be properly barricaded with fencing and protected throughout construction to insure that no clearing, grading, or staging of materials will occur in those areas.
3. No equipment is allowed on site until all tree protection fencing and silt fencing is installed and approved. Protective fencing is to be maintained throughout the duration of the project, and contractors shall receive adequate instruction on tree protection methods.
4. Traffic control devices (including signs and pavement markings) in areas open to public traffic are to meet MUTCD (Manual on Uniform Traffic Control Devices) standards.
5. Contact Traffic Engineering at 910-341-7888to ensure that all traffic signal facilities and equipment are shown on the plan.
6. Contact Traffic Engineering at 910-341-7888 forty-eight hours prior to any excavation in the right-of-way.
7. Stop signs and street signs are to remain in place during construction.
8. Tactile warning mats will be installed on all wheelchair ramps.
9. Any broken or missing sidewalk panels, driveway panels, and curbing will be replaced.
10. Project shall comply with CDPUA Cross Connection Control requirements. Water meter(s) cannot be released until all requirements are met and the State has given their final approval. Call 910-343-3910 for information.
11. If the contractor desires CFPUA water for construction, he shall apply in advance for this service and must provide a reduced pressure zone (RPZ) backflow prevention device on the developer's side of the water meter box.
12. Any irrigation system supplied by CFPUA water shall comply with the CFPUA Cross Connection Control regulations. Call 919-343-3910 for information.
13. Any irrigation system shall be equipped with a rain and freezer sensor.
14. Any backflow prevention devices requirement by the CFPUA will need to be on the list of approved devices by USCFCCCHR or ASSE.
15. Contractor to field verify existing water and sewer service locations, sizes and materials prior to construction. Engineer to be notified of any conflicts.
16. Contractgor shall maintain all-weather access for emergency vehicles at all times during construction.
17. No obstructions are permitted in the space between thirty (30) inches and ten (10) feet above the ground within the triangular sight distance.
18. Contact the North Carolina One Call Center at 1-800-632-4949 prior to any digging, clearing, or grading.
19. All traffic control signs and markings off the right-of-way are to be maintained by the property owner in accordance with MUTCD standards.
20. A utility cut permit is required for each open cut of a city street. In certain cases an entire resurfacing of the area being open cut may be required.

## GENERAL DEMOLITION NOTES:

1. Construction and Tree protection fencing must be in place prior to any clearing, demolition, and disturbance or issuance of grading permit and maintained throughout construction. Landscape Architect to verify fence location prior to construction.
2. All materials noted for removal to be disposed of off-site and in a legal manner, unless otherwise noted. Contractor to recycle materials as appropriate including asphalt, concrete, brick, and vegetation.
3. Items or elements noted for removal and return to owner or relocation shall be stored on-site at owner's direction.
4. Items not noted for removal, including trees, lights, plant material, paving, and all utilities shall be protected and secured throughout construction. Any damage incurred shall be corrected in kind at no additional cost to the owner.
5. Erosion control measures to be installed prior to site disturbance.
6. If root systems of existing trees noted to remain on site are encountered during construction, roots are to be pruned under the direction a Certified Arborist.
7. Contractor to verify location of existing utilities prior to construction.
8. Contractor to keep construction entrance and adjacent streets clean throughout construction.
9. Contractor shall keep job site free of trash and garbage.
10. Any discrepancies in plans or departure from plans shall be reported to the Landscape Architect immediately.
11. All pavement / curb to be saw cut at limits of removal.

## GENERAL LAYOUT NOTES:

1. Drawings based on survey provided by Bateman Civil Survey Company. Landscape Architect assumes no responsibility for the accuracy of the survey.
2. Any discrepancies in layout should be brought to the attention of the Landscape Architect immediately.
3. Written dimensions supercede scaled dimensions. Do not scale drawings.
4. Layout to be staked by a surveyor licensed in North Carolina and approved by Landscape Architect prior to installation.

## GENERAL GRADING NOTES:

1. Construction fencing and tree protection fencing must be in place prior to any clearing, demolition, and disturbance or issuance of grading permit and maintained throughout construction. Landscape Architect to verify fence location prior to construction.
2. Contractor to insure positive drainage away from buildings.
3. All slopes to be consistent and uniform.
4. Bottom of wall elevations (BW) refer to finish grade not top or bottom of wall footing.
5. Spot elevations reference final surface elevations.
6. Subgrade elevations shall reflect slope and grade of final surface elevations.
7. All proposed pavement shall meet existing pavement, flush.
8. All walks to exhibit a 2% cross slope and not exceed 5% slope in the direction of pedestrian movement unless otherwise noted. Any existing walks that don't comply should be brought to Landscape Architect's attention prior to demolition and replacement.
9. The contractor shall install and maintain sufficient erosion and sediment control measures as needed to keep sediment within the project work area. Any sediment deposited outside the project work area, including tracking out, shall be immediately cleaned up by sweeping and removing the material by hand. Accumulated sediment on hard surfaces shall not be washed into storm drains, gutters or receiving waters. All installed erosion and sediment control measures shall be removed once the project area is fully stabilized.

## GENERAL PLANTING NOTES:

1. Contractor is responsible for identifying all utilities prior to beginning construction.
2. Trees shall be located a minimum of 5 feet from sewer/water connections or as otherwise dictated by local regulations. Contractor shall be liable for damage to any and all public or private utilities.
3. All plant materials to comply with the current version of the American Standard for Nursery Stock ANSI.Z60
4. Substitutions of plant materials specified can only occur with prior approval by Landscape Architect.
4. Establish plant bed configuration. Landscape Architect to approve bed layout in field.
5. Perform soil test in all new plant beds and amend soils as recommended.
6. Install plants and mulch plant beds with 3" shredded hardwood mulch.
7. All trees to be installed between October 1 and April 30. Cost of any delayed tree installation to be included in the base bid.
8. Contractor to guarantee plant materials according to the specifications.
9. Areas damaged by activities of contractor shall be re-established to pre-disturbance condition at no additional cost to the owner.
10. Use herbicides, pesticides, and fertilizer in a manner consistent with the federal insecticide, fungicide, and rodenticide act and in accordance with label restrictions.
11. Contractor shall protect any existing planting not involved in new construction.
12. Contractor shall insure that all plant material is free of fire ants prior to installation.
13. Landscape Architect / Owner shall approve placement of trees prior to planting.
14. All proposed vegetation within sight distance triangles shall not interfere with clear, visual sight lines from 30"-10' in height.
15. All areas, within limits of construction, unpaved and not noted for lawn to be mulched per specifications.

## PROJECT COORDINATION NOTES:

1. Contractor to maintain public access to the Library through one of the two first floor entrances throughout construction.
2. New Hanover County will be managing a foundation waterproofing project along the west elevation and around the corners at each entrance prior to construction of this project. Precise schedule of waterproofing project is unknown. Waterproofing contractor will be off site prior to project commencement. Contractor will only be responsible for accepting site conditions. Cost associated with items and quantity of materials noted for demolition in these plans will be adjusted based on unit prices.

CITY OF WILMINGTON
NORTH CAROLINA
Construction Approval Block

Date:__________ Name:__________

Planning: __________

Traffic: __________

Fire: __________

Engineering: __________

Permit #: __________

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919-755-0046
obsla.net

CONSULTANTS:

SEALS:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECTURAL CORP. C-110 OBS LANDSCAPE ARCHITECTS

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 549 BRIAN H. STARKEY

# Public Library Story Park

New Hanover County
209 Chestnut Street Wilmington, NC

| | |
|---|---|
| DATE: | 01/22/16 |
| DESIGNER: | LED |
| CHECKED BY: | BHS |

REVISIONS

| NO. | DATE |
|---|---|
| | |
| | |
| | |
| | |

SCALES
HORIZ: NTS

BID DOCUMENTS

GENERAL NOTES

G100

SURVEYOR CERTIFICATION

I CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION FROM DEED AND MAP REFERENCES SHOWN HEREON AND THAT THE BOUNDARIES NOT SURVEYED ARE INDICATED AS DRAWN FROM INFORMATION SHOWN HEREON; THAT THE RATIO OF PRECISION OR POSITIONAL ACCURACY IS 1:10,000+; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56. 1600)." THIS 9TH DAY OF DECEMBER, 2014.

PETER J. BRENNAN, JR.
CITY SURVEYOR, NCPLS # 3743

*THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY PETER J. BRENNAN, JR., NCPLS # 3743, AND MAY 5, 2015. THIS MEDIUM SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT.*

I, PETER J BRENNAN, JR, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL (GROUND) SURVEY MADE UNDER MY SUPERVISION; THAT THIS SURVEY WAS PERFORMED TO MEET FEDERAL GEOGRAPHIC STANDARDS AS APPLICABLE; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED ON AUGUST 9, 2014; THAT THE SURVEY WAS COMPLETED ON SEPTEMBER 22, 2014; THAT CONTOURS SHOWN AS BROKEN LINES MAY NOT MEET THAT STATED STANDARD; AND ALL COORDINATES ARE BASED ON NAD '83 (2012).

I, PETER J BRENNAN, JR, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL GPS SURVEY MADE UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE SURVEY.

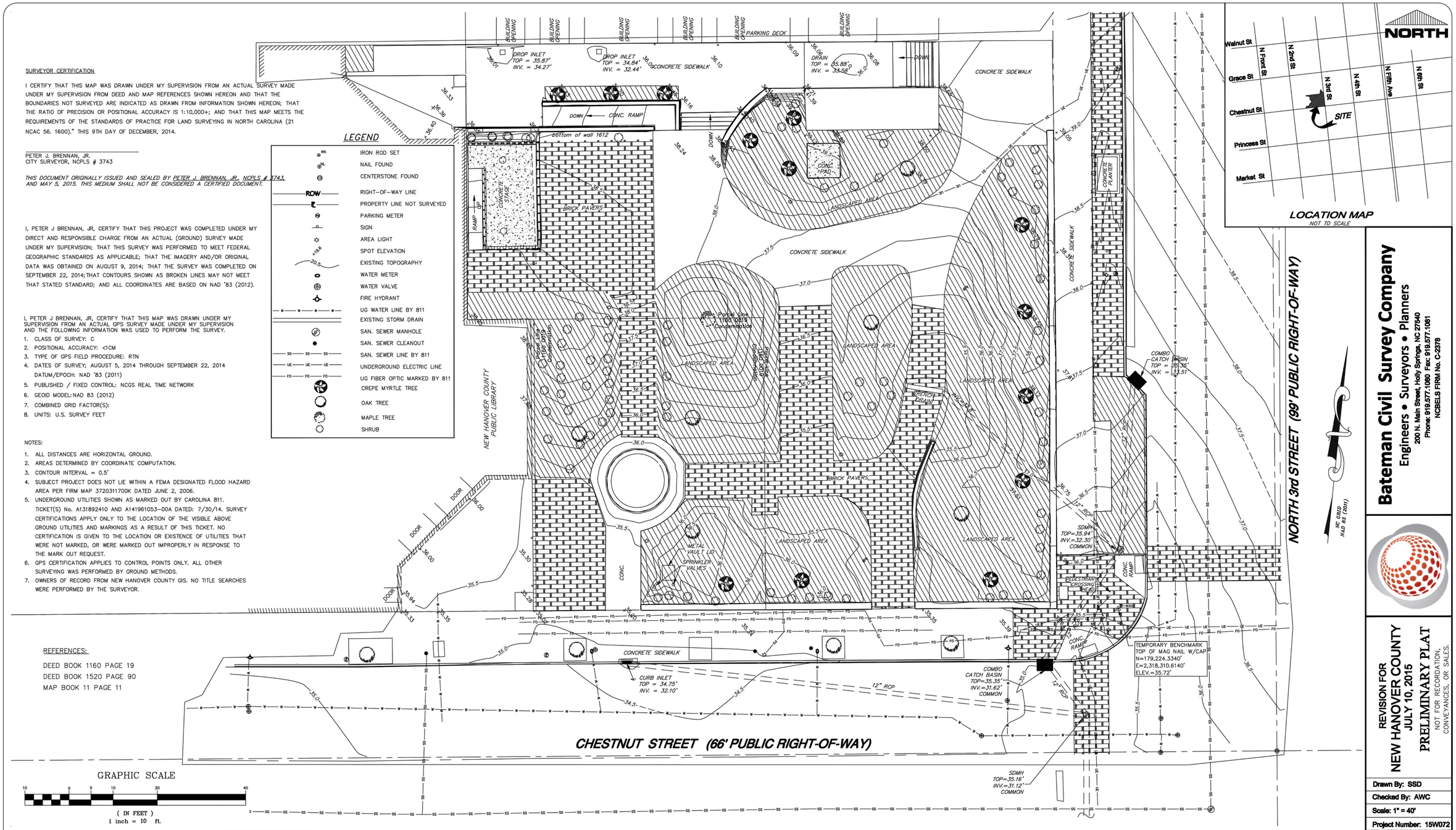
1. CLASS OF SURVEY: C
2. POSITIONAL ACCURACY: <1CM
3. TYPE OF GPS FIELD PROCEDURE: RTN
4. DATES OF SURVEY; AUGUST 5, 2014 THROUGH SEPTEMBER 22, 2014
   DATUM/EPOCH: NAD '83 (2011)
5. PUBLISHED / FIXED CONTROL: NCGS REAL TIME NETWORK
6. GEOID MODEL: NAD 83 (2012)
7. COMBINED GRID FACTOR(S):
8. UNITS: U.S. SURVEY FEET

NOTES:

1. ALL DISTANCES ARE HORIZONTAL GROUND.
2. AREAS DETERMINED BY COORDINATE COMPUTATION.
3. CONTOUR INTERVAL = 0.5'
4. SUBJECT PROJECT DOES NOT LIE WITHIN A FEMA DESIGNATED FLOOD HAZARD AREA PER FIRM MAP 3720311700K DATED JUNE 2, 2006.
5. UNDERGROUND UTILITIES SHOWN AS MARKED OUT BY CAROLINA 811. TICKET(S) No. A131892410 AND A141961053-00A DATED: 7/30/14. SURVEY CERTIFICATIONS APPLY ONLY TO THE LOCATION OF THE VISIBLE ABOVE GROUND UTILITIES AND MARKINGS AS A RESULT OF THIS TICKET. NO CERTIFICATION IS GIVEN TO THE LOCATION OR EXISTENCE OF UTILITIES THAT WERE NOT MARKED, OR WERE MARKED OUT IMPROPERLY IN RESPONSE TO THE MARK OUT REQUEST.
6. GPS CERTIFICATION APPLIES TO CONTROL POINTS ONLY. ALL OTHER SURVEYING WAS PERFORMED BY GROUND METHODS.
7. OWNERS OF RECORD FROM NEW HANOVER COUNTY GIS. NO TITLE SEARCHES WERE PERFORMED BY THE SURVEYOR.

REFERENCES:

DEED BOOK 1160 PAGE 19
DEED BOOK 1520 PAGE 90
MAP BOOK 11 PAGE 11




**Batemeyer Civil Survey Company**
Engineers • Surveyors • Planners
200 N. Main Street, Holly Springs, NC 27540
Phone: 919.577.1080 Fax: 919.577.1081
NCBELS FIRM No. C-2378

REVISION FOR
NEW HANOVER COUNTY
JULY 10, 2015
PRELIMINARY PLAT
NOT FOR RECORDATION, CONVEYANCES, OR SALES.

Drawn By: SSD
Checked By: AWC
Scale: 1" = 40'
Project Number: 15W072

| REV# | REVISIONS | DATE |
|---|---|---|
| #1 | ADDED SPOT SHOTS, UTILITY VERIFICATION | 7/10/15 |

DATE: DECEMBER, 2014
PROJECT NUMBER: ( )
PROJECT ENGINEER

DATE OF SURVEY: 8/5/2014-9/22/2014
DRAWN: CTR
CHECKED: PJB/BB
SURVEYOR: BB

CITY OF WILMINGTON NORTH CAROLINA
City Surveying • Engineering Division • Public Services
P.O. Box 1810 • 212 Operations Center Drive • Wilmington, NC 28402 • (910) 341-7807

PRELIMINARY PLAT
NOT FOR RECORDATION, CONVEYANCES, OR SALES.

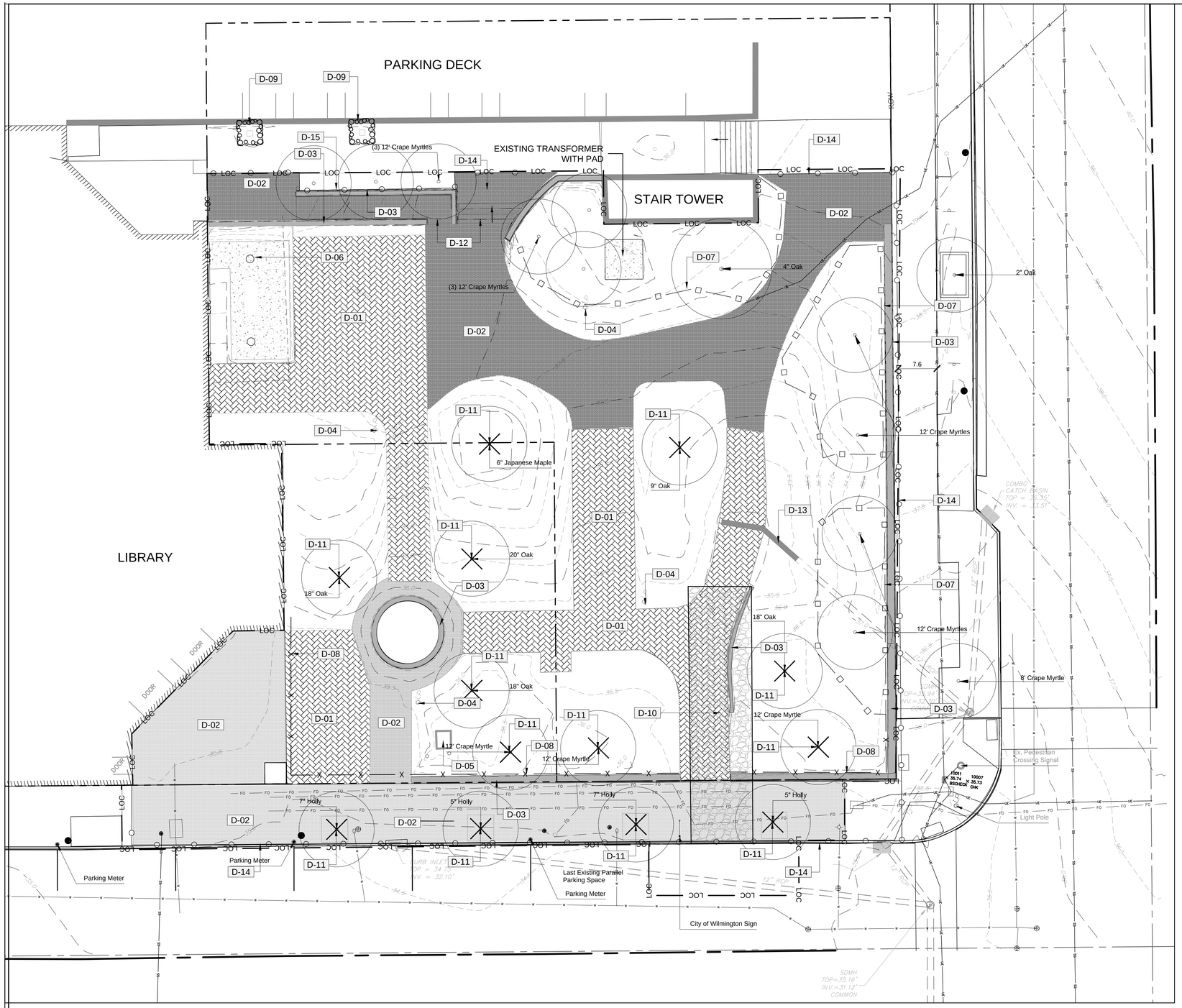
DWG PATH: *Public Fac-NHCO Public Library Main Branch Improvements-2014\Drawings & Specs\Bid Drawings*
FILE NAME: *NHCO Library existing conditions.dwg*

# EXISTING CONDITIONS SURVEY OF THE NEW HANOVER COUNTY PUBLIC LIBRARY

CITY OF WILMINGTON WILMINGTON TOWNSHIP NEW HANOVER COUNTY, NORTH CAROLINA

SCALE 1" = 10'
SHEET 1 of 1

PROJECT NUMBER: BCSC# 15W072
PROJECT NAME:NHCO Main Library 2007-150713.dwg




## DEMOLITION SCHEDULE

| CODE | DESCRIPTION | DETAIL |
|---|---|---|
| D-01 | Remove brick paving in it`s entirety | |
| D-02 | Remove Concrete Paving it its entirety. | |
| D-03 | Remove Wall in its entirety | |
| D-04 | Remove light pole in its entirety | |
| D-05 | Remove Fountain Pump in its entirety | |
| D-06 | Remove stage, walls, ramp, and pavingin its entirety. (Canopy not in contract) | |
| D-07 | Tree Protection Fence | 2/D100 |
| D-08 | Silt Fence | 1/D100 |
| D-09 | Inlet Protection | 1/D100 |
| D-10 | Construction Entrance | 1/D100 |
| D-11 | Remove tree in its entirety | |
| D-12 | Remove existing ramp and stairs | |
| D-13 | Remove trench drain and pipe to limits shown | |
| D-14 | 6` tall, temporary chainlink fence to be kept in place throughout construction at limis of construction (LOC) unless otherwise shown. | |
| D-15 | Following removal of wall and ramp, tree protection fence to be installed around 3 Crape Myrtles. | |

Contact the North Carolina One Call Center at 1-800-632-4949 prior to any digging, clearing, or grading.

CITY OF WILMINGTON NORTH CAROLINA
Construction Approval Block
Date:_____ Name:_____
Planning: _____
Traffic: _____
Fire: _____
Engineering: _____
Permit #: _____

10 5 0 10 20 30

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CONSULTANTS:

SEALS:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT C-110 OBS LANDSCAPE ARCHITECTS

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 549 BRYAN H. STARKEY

# Public Library Story Park

New Hanover County
209 Chestnut Street Wilmington, NC

DATE: 01/22/16
DESIGNER: LED
CHECKED BY: BHS

REVISIONS

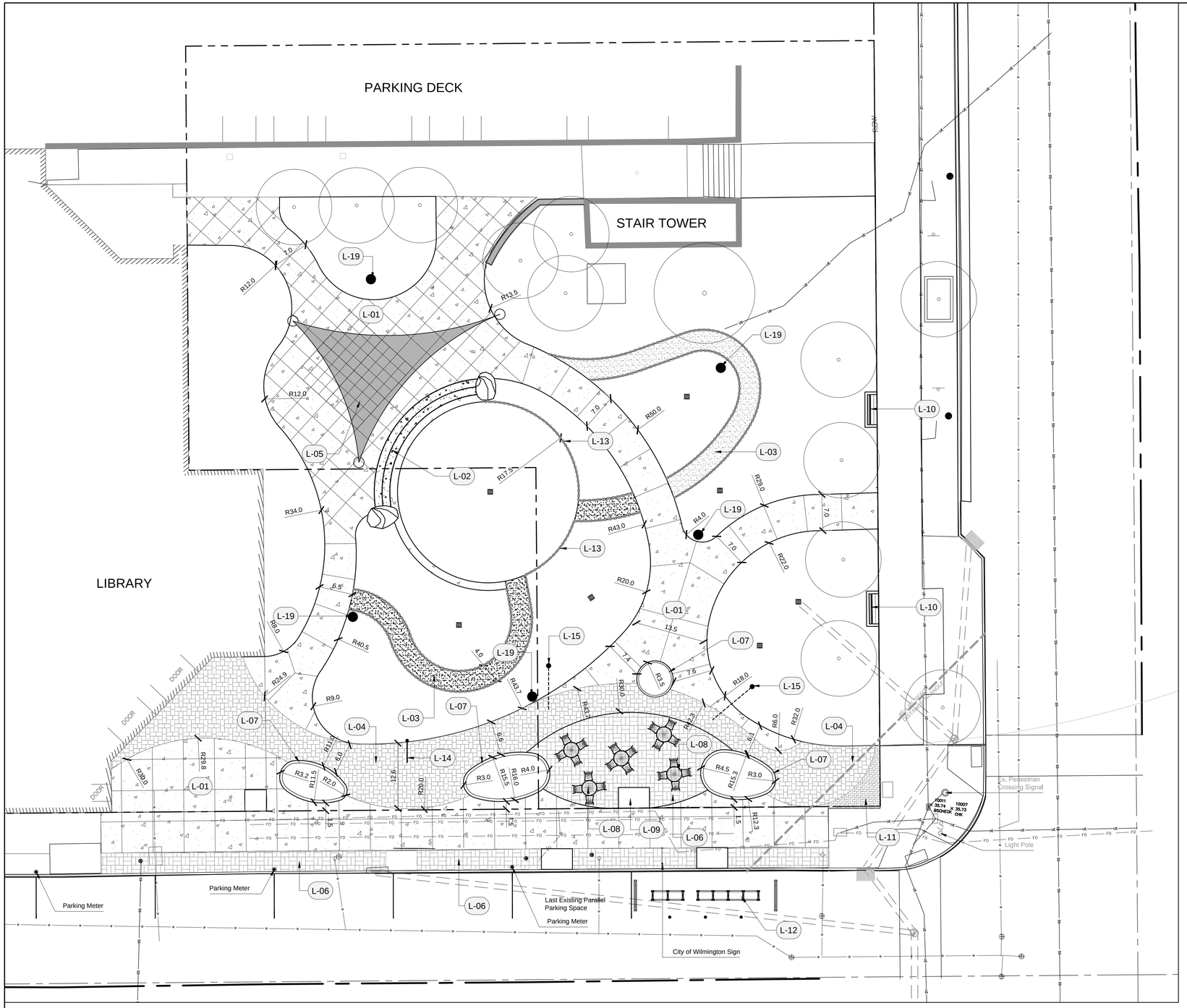
| NO. | DATE |
|---|---|
| | |
| | |
| | |
| | |

SCALES
HORIZ: 1"=10'

BID DOCUMENTS

DEMOLITION PLAN

L100




## LAYOUT SCHEDULE

| CODE | DESCRIPTION | DETAIL |
|---|---|---|
| L-01 | Concrete Paving. Concrete paving within right of way to comply with City of Wilmington standards. | 4/D100 |
| L-02 | Concrete Stairs & Boulders | 3/D101 |
| L-03 | Grit path with steel edging | 5/D100 |
| L-04 | Permeable Concrete Pavers | 7/D101 |
| L-05 | Fabric Shade Canopy Structure. Refer to specifications, this sheet. | |
| L-06 | Brick Paving | 6/D100 |
| L-07 | Planter Curb | 4/D101 |
| L-08 | Tables & Chairs (Not in Contract, Purchased by Owner) | |
| L-09 | Tree Pit with Structural Soil & Grate | 1/D102 |
| L-10 | Bench on concrete pad. 6` C-10 Classic Series bench with center arm rest in Cherry as manufacturered by Victor Stanley. Contractor to install per manufacturer`s specifications. | 5/D101 |
| L-11 | Brick Paving to match existing. Herringbone pattern with border. | 6/D100 |
| L-12 | Streetside bicycle corral. 8 industrial hoop bicycle racks as manufactured by Dero or approved equal. | 3/D100 |
| L-13 | Steel edging | 7/D102 |
| L-14 | Observation well for Permeable pavers | 6/D101 |
| L-15 | Pop-up drain for permeable pavers | 6/D101 |
| L-19 | Duke Power LED Pedestrian shoebox light fixture. | |

## SHADE SAIL SPECIFICATION

SAIL:
Shade sails shall be a three-point design measuring 40' x 40 'x 30' mounted to steel support columns. The sail fabric is to have a minimum shade factor of 85% and a minimum UV factor of 90%. Fabric shall carry a 10 year warranty against significant fading, deterioration, breakdown, mildew and outdoor heat/cold. Entry height to be a minimum of 12' at 2 posts and a minimum height of 16' at the narrow end. The sails shall have a minimum 100mph wind speed rating. The colors for the fabric to be selected from manufacturer's color charts by the Landscape Architect / Owner prior to ordering and installation.

COLUMNS:
Steel columns shall be powder-coated steel and imbedded in concrete footings per manufacturer's recommendations. The colors for the powder coating to be selected from manufacturer's color charts by Landscape Architect / Owner prior to ordering and installation.

HARDWARE:
All hardware shall be stainless steel.

CITY OF WILMINGTON NORTH CAROLINA
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Date:_____ Name:_____

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Fire: _____

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10 5 0 10 20 30

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CONSULTANTS:

SEALS:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT C-110 OBS LANDSCAPE ARCHITECTS

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 549 BRYAN H. STARKEY

# Public Library Story Park

New Hanover County
209 Chestnut Street Wilmington, NC

DATE: 01/22/16

DESIGNER: LED

CHECKED BY: BHS

REVISIONS

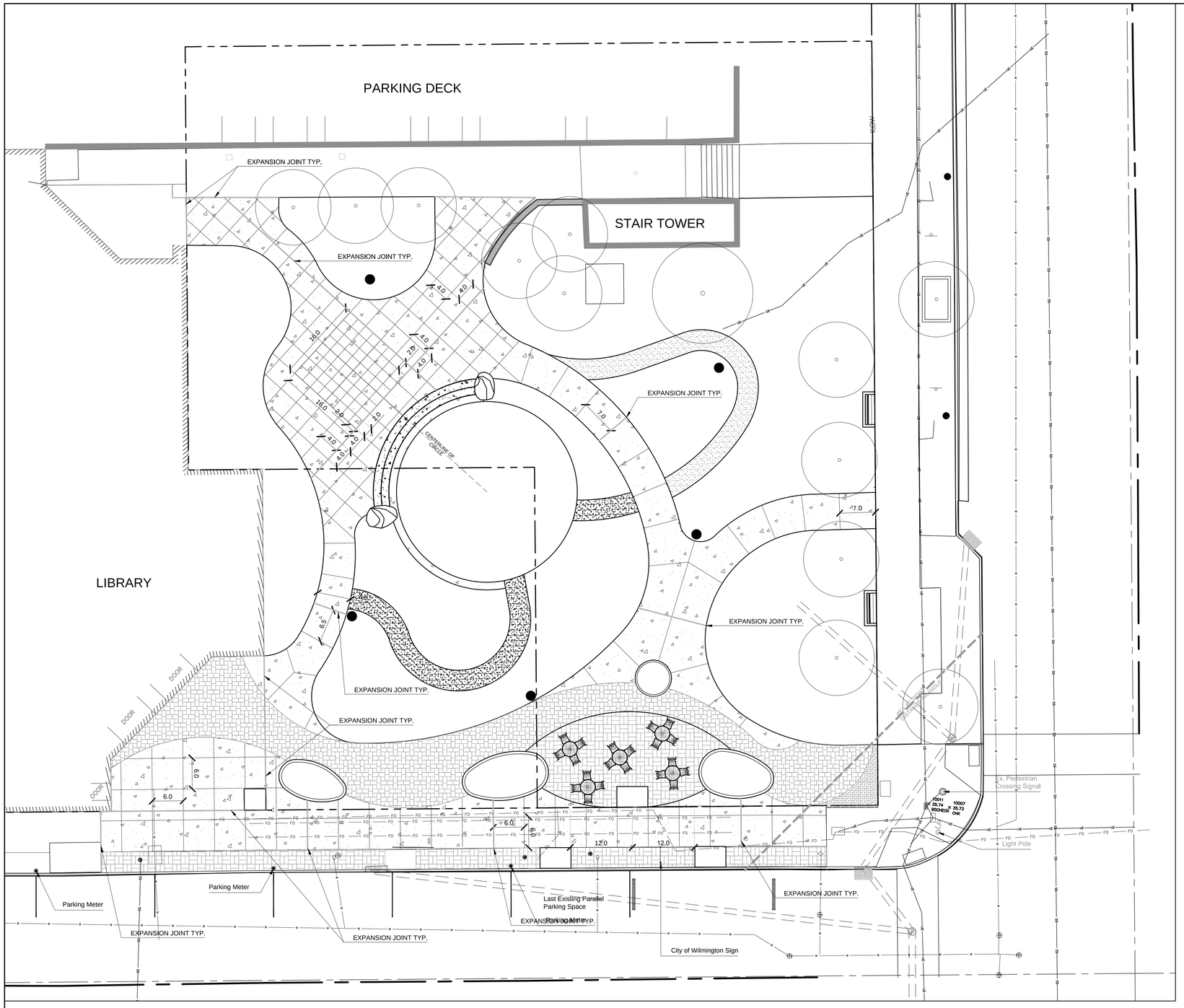
| NO. | DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

SCALES
HORIZ: 1"=10'

BID DOCUMENTS

LAYOUT PLAN

L200

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10 5 0 10 20 30


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p.o. box 28504
raleigh nc 27611
919-755-0046
obdla.net


CONSULTANTS:

SEALS:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT C-110 OBD LANDSCAPE ARCHITECTS

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 549 BRYAN H. STARKEY

# Public Library Story Park

New Hanover County
209 Chestnut Street Wilmington, NC

DATE: 1/22/2016

DESIGNER: LED

CHECKED BY: BHS

REVISIONS

| NO. | DATE |
|---|---|
| | |
| | |
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| | |

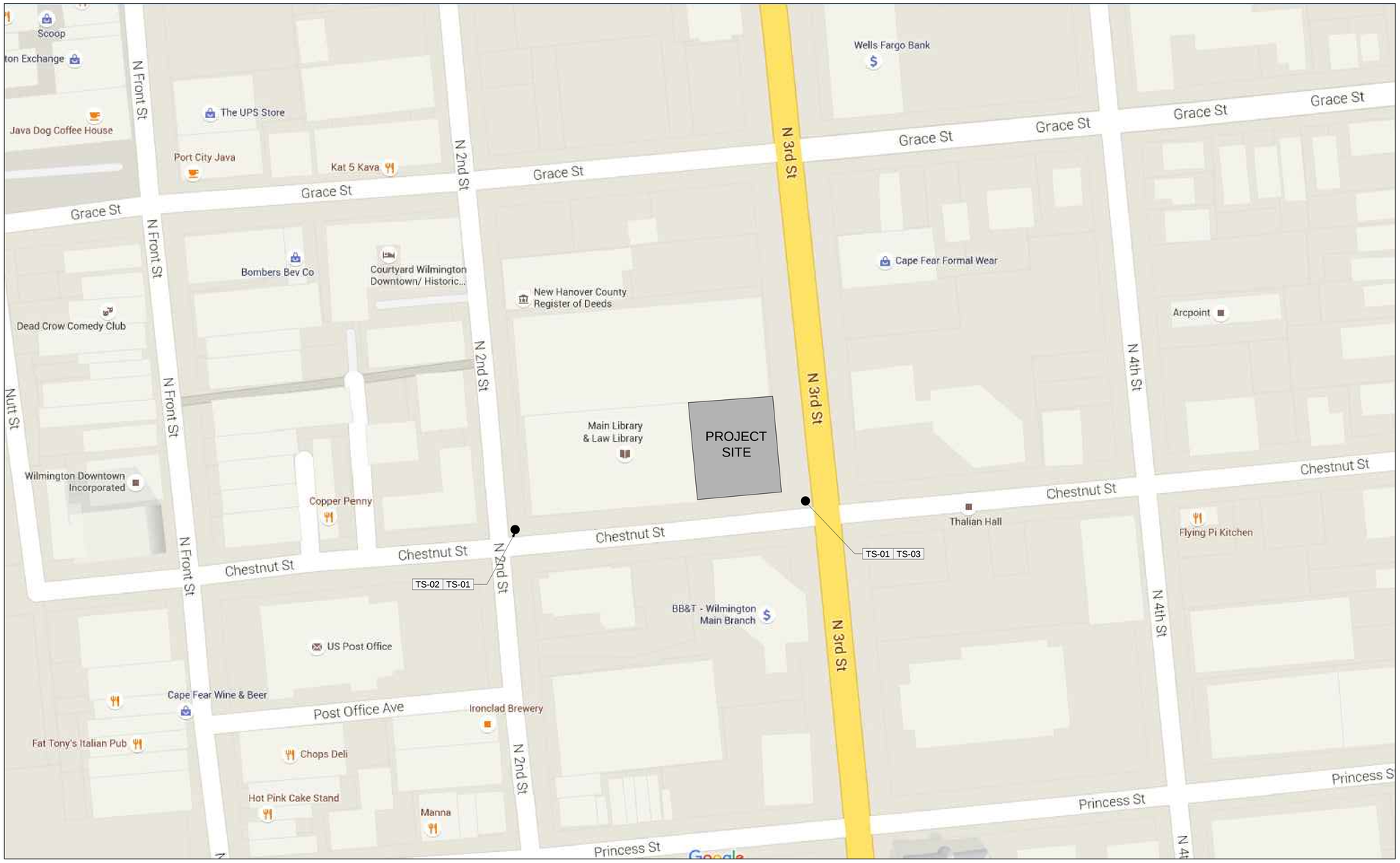
SCALES

HORIZ: 1"=10'

SITE PLAN APPROVAL

PAVEMENT SCORING PLAN

L201




## TS TEMPORARY SIGNAGE SCHEDULE

| CODE | DESCRIPTION |
|---|---|
| TS-01 | Temporary Sign for pedestrian control during construction. Contractor to install R9-9 (Sidewalk Closed) per MUTCD standards until the work within the Right of Way of Chestnut Street is complete. |
| TS-02 | Temporary Sign for pedestrian control during construction. Contractor to install sign M4-9aR (Detour Right) per MUTCD standards until the work within the Right of Way of Chestnut Street is complete. |
| TS-03 | Temporary Sign for pedestrian control during construction. Contractor to install sign M4-9aL (Detour Left) per MUTCD standards until the work within the Right of Way of Chestnut Street is complete. |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po box 28504
raleigh, nc 27611
919.755.0046
obsla.net


CONSULTANTS:

SEALS:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECTS C-110

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 549 BRIAN H. STARKEY

# Public Library Story Park

New Hanover County
209 Chestnut Street Wilmington, NC

DATE: 01/22/16

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REVISIONS

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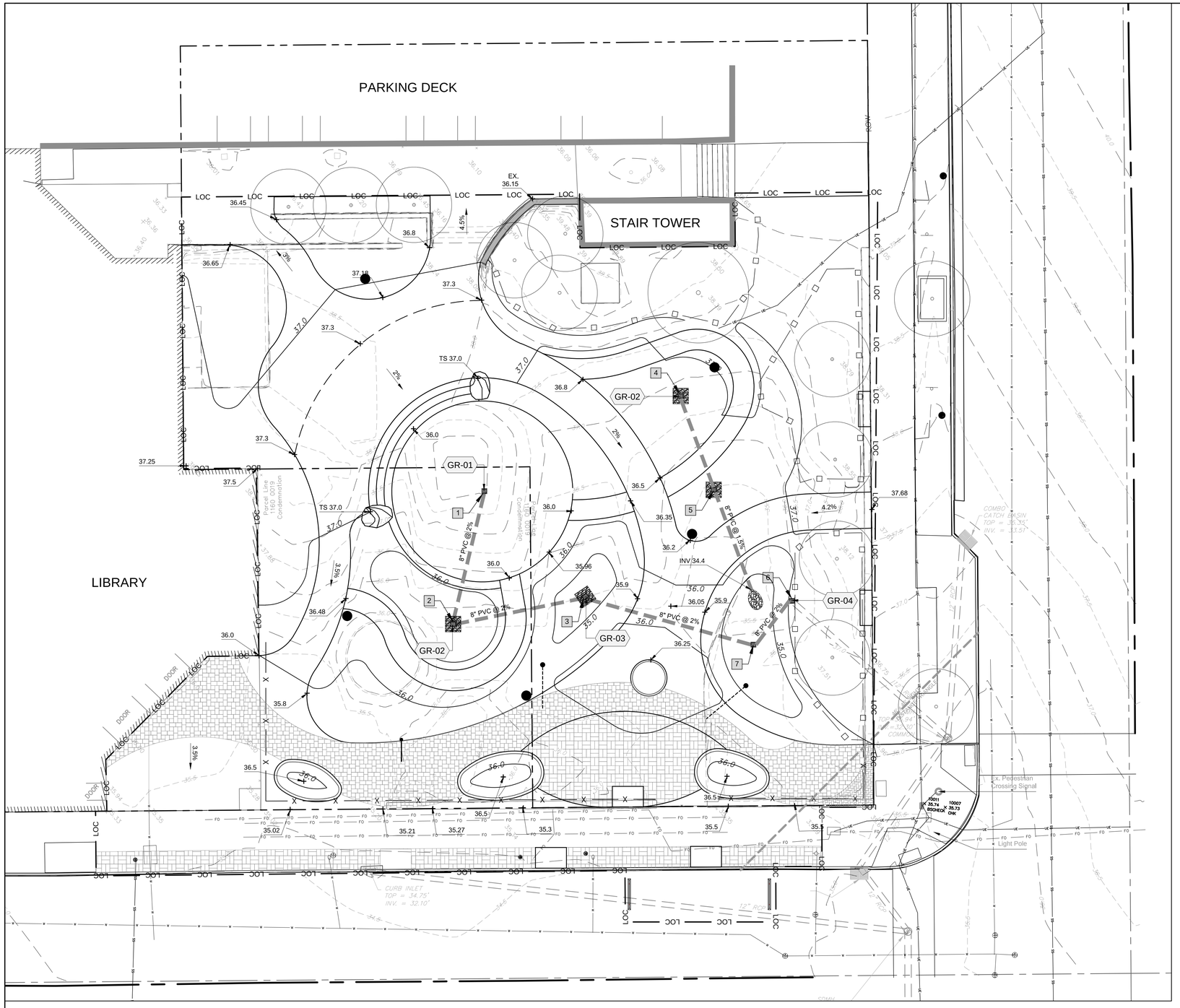
SCALES
HORIZ: NTS

BID DOCUMENTS

PEDESTRIAN PLAN

L202




## GR Grading SCHEDULE

| CODE | DESCRIPTION | DETAIL |
|---|---|---|
| GR-01 | 12" Catch Basin (in lawn) | 1/D101 |
| GR-02 | 12" Storm Inlet with Stone Surround | 9/D101 |
| GR-03 | Catch Basin / Riser | |
| GR-04 | Junction Box | |

## STORM SEWER SCHEDULE

| STRUCTURE | RIM | INVERT IN | INVERT OUT |
|---|---|---|---|
| 1 | 35.65 | - | 34.6 |
| 2 | 35.75 | 34.1 | 34.1 |
| 3 | 34.75 | 33.6 | 33.6 |
| 4 | 36.0 | - | 35.0 |
| 5 | 36.0 | 35.73 | 35.73 |
| 6 | 36.5 | 32.7 | 32.7 |
| 7 | 35.5 | - | 32.9 |

CITY OF WILMINGTON NORTH CAROLINA

Construction Approval Block

Date:_____ Name:_____

Planning: _____

Traffic: _____

Fire: _____

Engineering: _____

Permit #: _____

10 5 0 10 20 30

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CONSULTANTS:

SEALS:

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 549 BRYAN H. STARKEY

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New Hanover County
209 Chestnut Street Wilmington, NC

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REVISIONS

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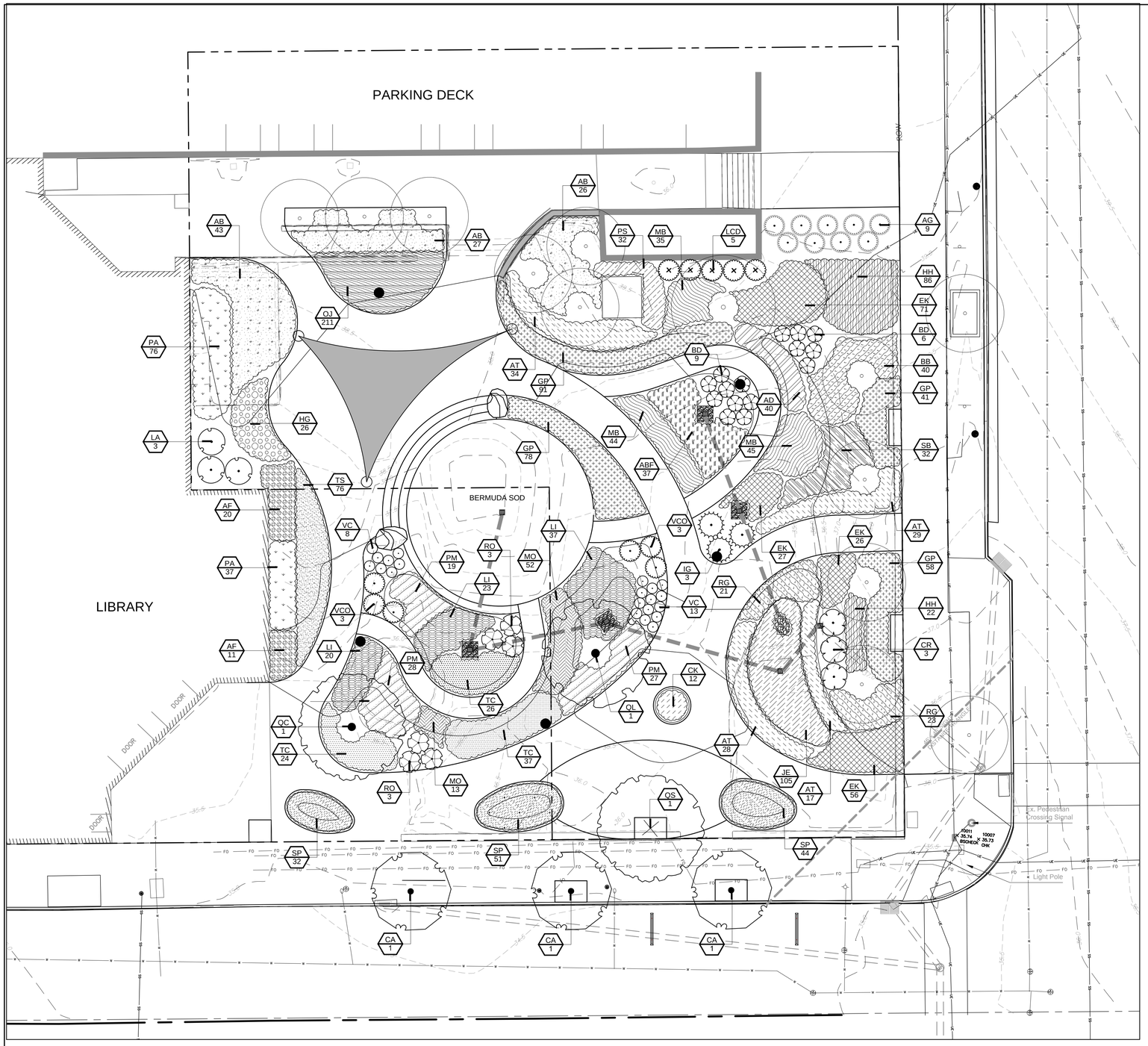
| | |

SCALES
HORIZ: 1"=10'

BID DOCUMENTS

GRADING & DRAINAGE PLAN

L300




## PLANT SCHEDULE

| TREES | QTY | BOTANICAL NAME / COMMON NAME | CONT | CAL | REMARKS |
|---|---|---|---|---|---|
| CA | 3 | Carpinus caroliniana / American Hornbeam | B & B | 4"Cal | Single Straight Leader, Uniform Canopy |
| QC | 1 | Quercus coccinea / Scarlet Oak | B & B | 4"Cal | Single Straight Leader, Uniform Canopy |
| QL | 1 | Quercus lyrata / Overcup Oak | B & B | 4"Cal | Single Straight Leader, Uniform Canopy |
| QS | 1 | Quercus shumardii / Shumard Red Oak | B & B | 4"Cal | Single Straight Leader, Uniform Canopy |

| SHRUBS | QTY | BOTANICAL NAME / COMMON NAME | SIZE | HT. | REMARKS |
|---|---|---|---|---|---|
| AG | 9 | Abelia x grandiflora `Canyon Creek` / Glossy Abelia | 3 gal | 18" Min | Fully Rooted, 4` OC |
| BD | 15 | Buddleia davidii `Blue Chip` / Dwarf Butterfly Bush | 3 gal. | | Fully Rooted, 3` OC |
| CR | 3 | Clethra alnifolia `Ruby Spice` / Ruby Spice Clethra | 3 gal | 18" Min | Fully Rooted, 5` OC |
| IG | 3 | Ilex glabra `Shamrock` / Inkberry | 3 gal | 18" Min | Fully Rooted, 5` OC |
| LA | 3 | Leucothoe axillaris / Coastal Leucothoe | 3 gal | 18" Min | Fully Rooted, 5` OC |
| LCD | 5 | Loropetalum chinense `Daruma` / Daruma Dwarf Loropetalum | 3 gal. | 18" Min | Fully Rooted, 4` OC |
| RO | 6 | Rosmarinus officinalis `Roman Beauty` / Roman Beauty Rosemary | 1 gal | | Fully Rooted, 4` OC |
| VCO | 6 | Vaccinium corymbosum / Highbush Blueberry | 3 gal | 18" Min | Fully Rooted, 4` OC |
| VC | 21 | Vaccinium crassifolium `Wells Delight` / Creeping Blueberry | 3 gal. | | Fully Rooted, 2` OC |

| GROUND COVERS | QTY | BOTANICAL NAME / COMMON NAME | CONT | | REMARKS |
|---|---|---|---|---|---|
| ABF | 37 | Agastache x `Blue Fortune` / Anise Hyssop | 1 gal | | Fully Rooted, 24" OC |
| AB | 96 | Ajuga reptans `Bronze Beauty` / Bronze Beauty Bugleweed | 1 gal | | Fully Rooted, 30" OC |
| AT | 108 | Asclepias tuberosa / Butterfly Milkweed | Qt | | Fully Rooted, 24" OC |
| AD | 40 | Aster dumosus `Wood`s Pink` / Wood`s Aster | 1 gal | | Fully Rooted, 18" OC |
| AF | 31 | Astilbe x arendsii `Fanal` / Fanal Astilbe | 1 gal | | Fully Rooted, 24" OC |
| BB | 40 | Baptisia bracteata / Cream Wild Indigo | 1 gal. | | Fully Rooted, 24" OC |
| CK | 12 | Calamagrostis x acutiflora `Karl Foerster` / Feather Reed Grass | 3" pot | | Fully Rooted, 18" OC |
| EK | 180 | Echinacea purpurea `Kim`s Knee High` TM / Purple Coneflower | 1 gal | | Fully Rooted, 18" OC |
| GP | 268 | Gaillardia pulchella / Firewheel | Qt | | Fully Rooted, 18" OC |
| HH | 108 | Helenium autumnale Helena Red / Sneezeweed | Qt | | Fully Rooted, 18" OC |
| HG | 26 | Heuchera villosa `Georgia Peach` / Georgia Peach Coral Bells | 1 gal | | Fully Rooted, 24" OC |
| JE | 105 | Juncus effusus / Soft Rush | 3" pot | | Fully Rooted, 18" OC |
| LI | 80 | Lavandula x intermedia `Phenomenal` / Lavender | Qt | | Fully Rooted, 24" OC |
| MO | 65 | Melissa officinalis / Lemon Balm | Qt | | Fully Rooted, 18" OC |
| MB | 124 | Monarda bradburiana / Eastern Bee Balm | Qt | | Fully Rooted, 18" OC |
| OJ | 211 | Ophiopogon japonicus / Mondo Grass | 1 gal | | Fully Rooted, 12" OC |
| PS | 32 | Panicum virgatum `Shenendoah` / Burgundy Switch Grass | 3" pot | | Fully Rooted, 18" OC |
| PA | 113 | Polystichum acrostichoides / Christmas Fern | Qt | | Fully Rooted, 18" OC |
| PM | 74 | Pycnanthemum muticum / Clustered Mountainmint | Qt | | Fully Rooted, 24" OC |
| RG | 44 | Rudbeckia fulgida `Goldstrum` / Coneflower | Qt | | Fully Rooted, 24" OC |
| SP | 127 | Schizachyrium scoparium `Prairie Blues` / Little Bluestem Grass | 3" pot | | Fully Rooted, 18" OC |
| SB | 32 | Symphyotrichum laeve `Bluebird` / Smooth Aster | Qt | | Fully Rooted, 24" OC |
| TC | 87 | Thymus serpyllum `Coccineum` / Creeping Red Thyme | Qt | | Fully Rooted, 24" OC |
| TS | 76 | Tradescantia virginiana / Virginia Spiderwort | Qt | | Fully Rooted, 18" OC |

10 5 0 10 20 30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CONSULTANTS:

SEALS:

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 549 BRIAN H. STARKEY

# Public Library Story Park

New Hanover County
209 Chestnut Street Wilmington, NC

DATE: 01/22/16

DESIGNER: LED

CHECKED BY: BHS

REVISIONS

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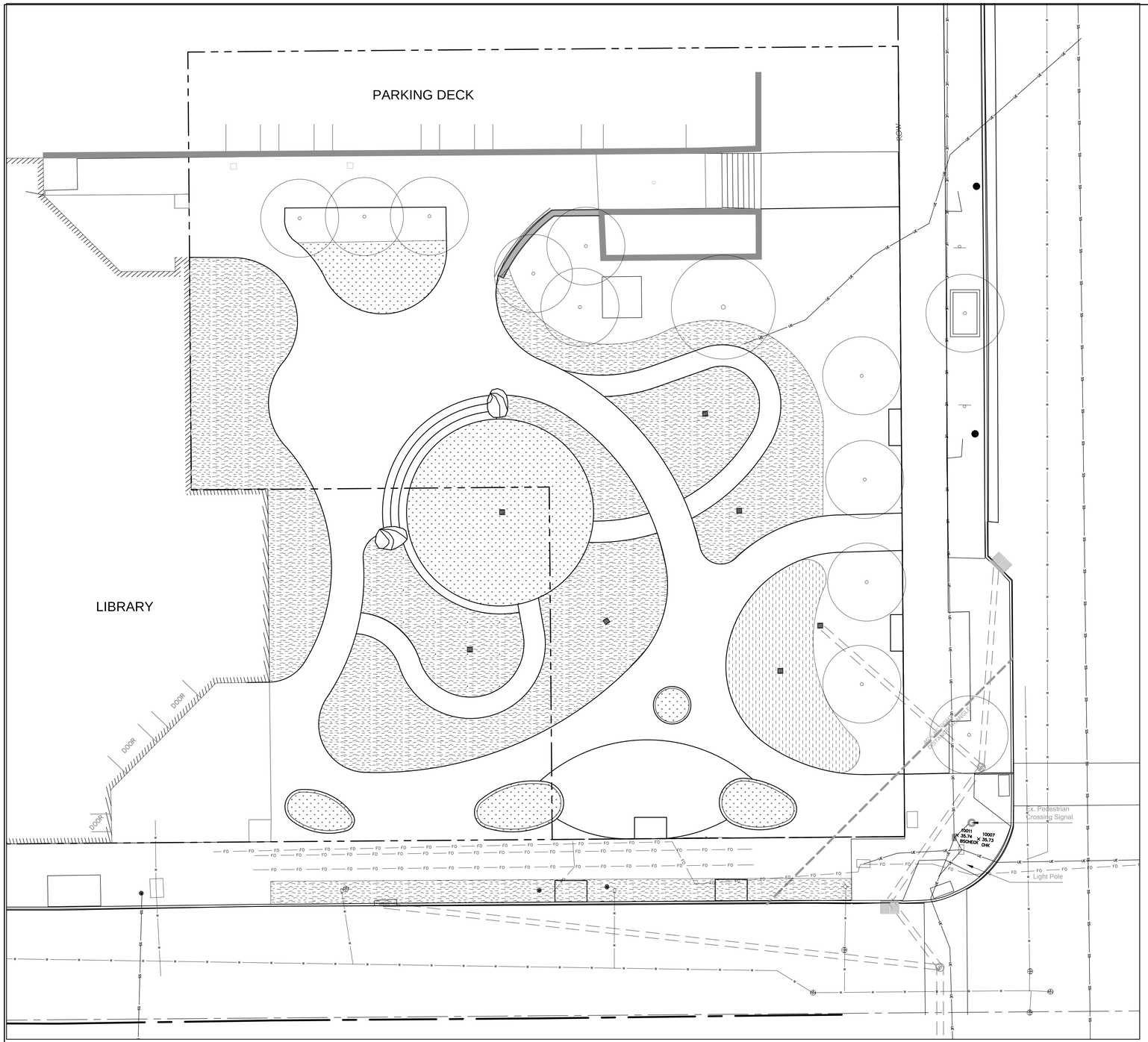
SCALES
HORIZ: 1"=10'

BID DOCUMENTS

PLANTING PLAN

L400




LAWN & GRASSED AREAS
Contractor is responsible for tilling in 2" of compost to a depth of 6". Compost to meet the requirements in the specifications.

GARDEN AREAS
Contractor is responsible for tilling 4" of compost to a depth of 12". Compost to meet the requirements in the specifications.

RAIN GARDEN MEDIA
Contractor is to place rain garden media per detail 7/D-100.

10 5 0 10 20 30

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CONSULTANTS:

SEALS:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECTURAL COMPANY C-110 OBS LANDSCAPE ARCHITECTS

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 549 BRIAN H. STARKEY

# Public Library Story Park

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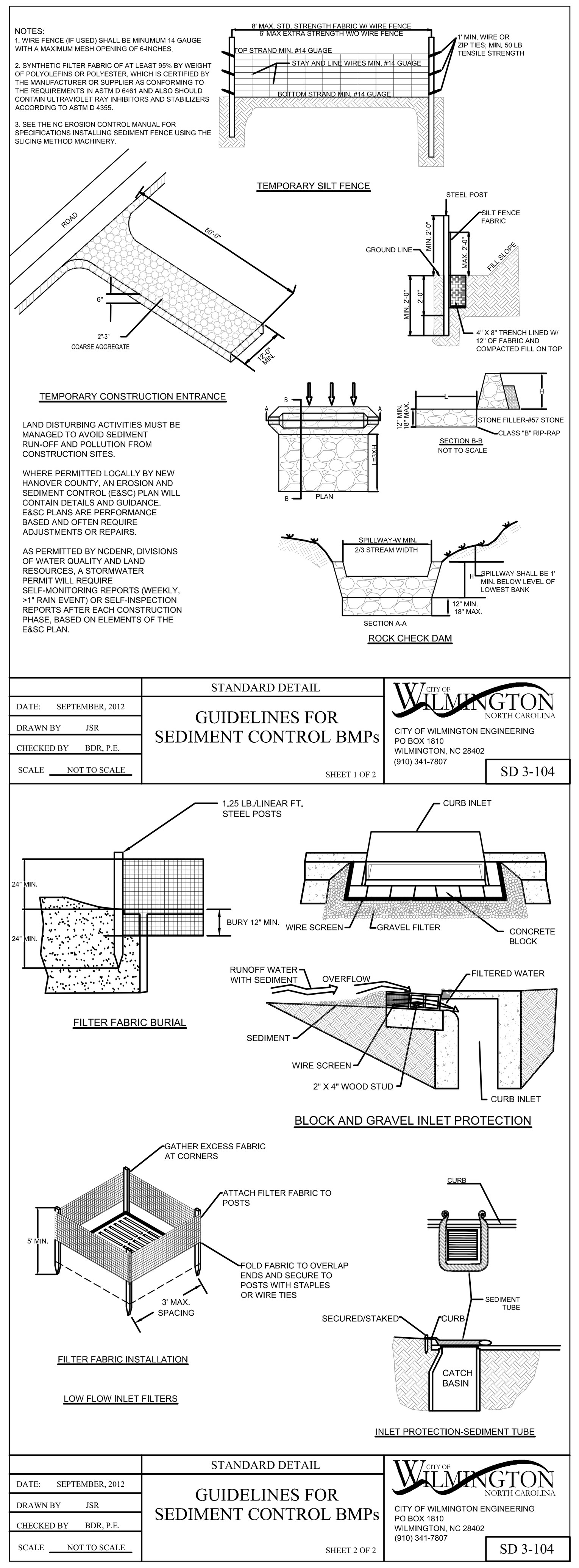
SCALES
HORIZ: 1"=10'

BID DOCUMENTS

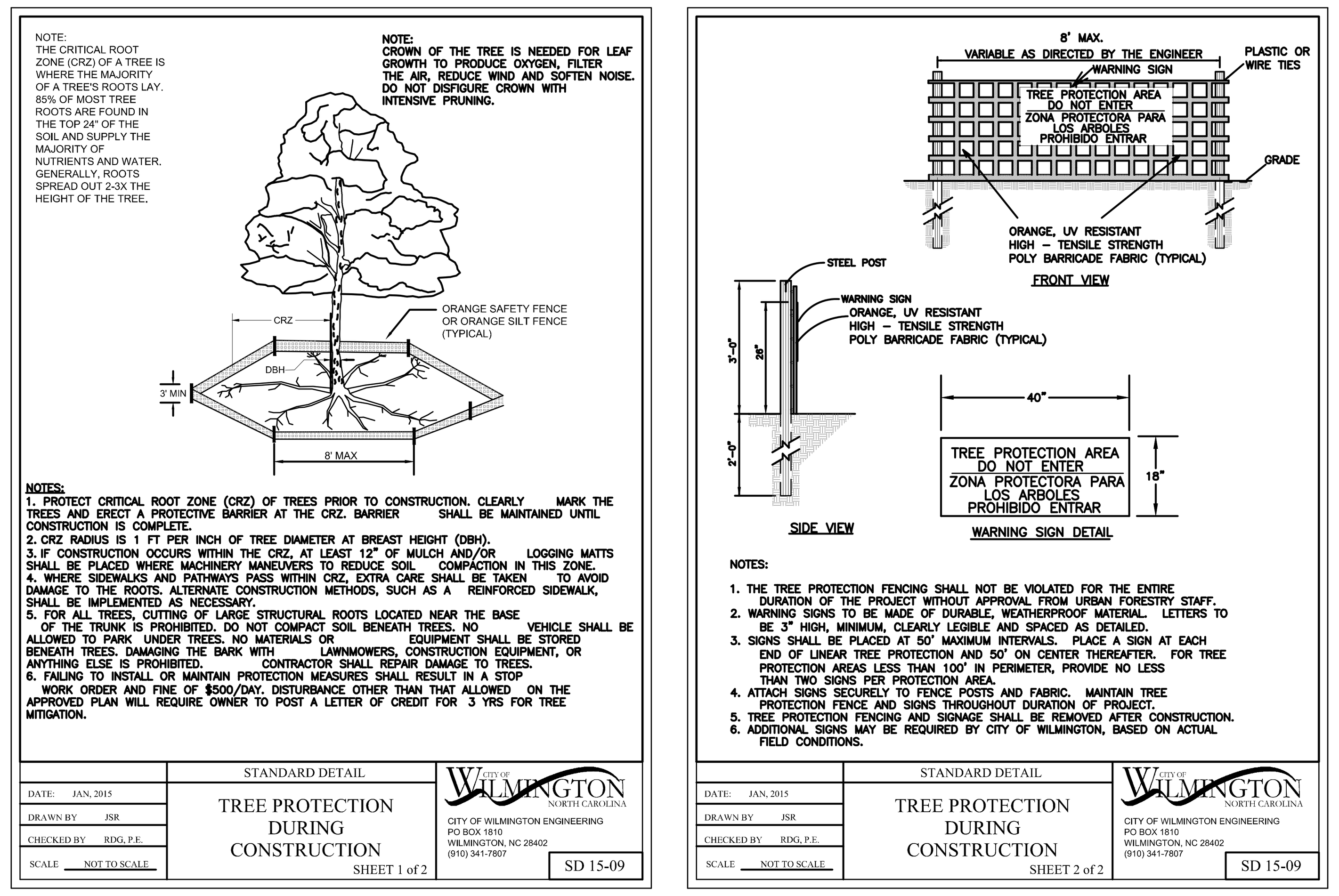
SOIL PREPARATION PLAN

L401



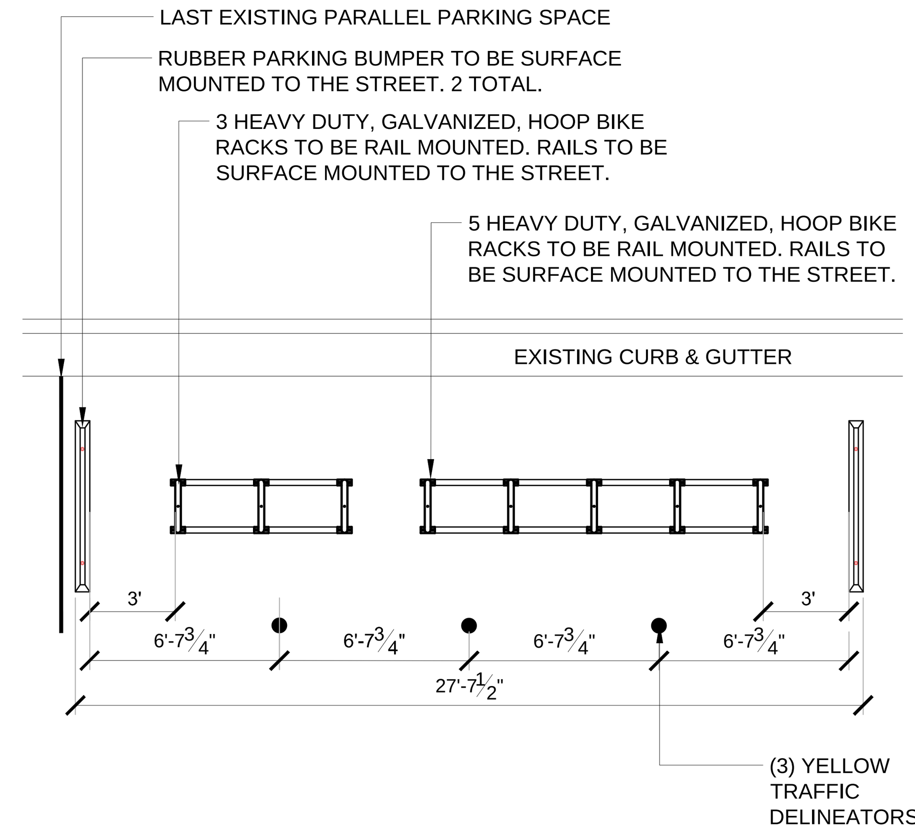

## 1 SEDIMENT CONTROL (CITY OF WILMINGTON)

NOT TO SCALE




## 2 TREE PROTECTION (CITY OF WILMINGTON STANDARD)

NOT TO SCALE

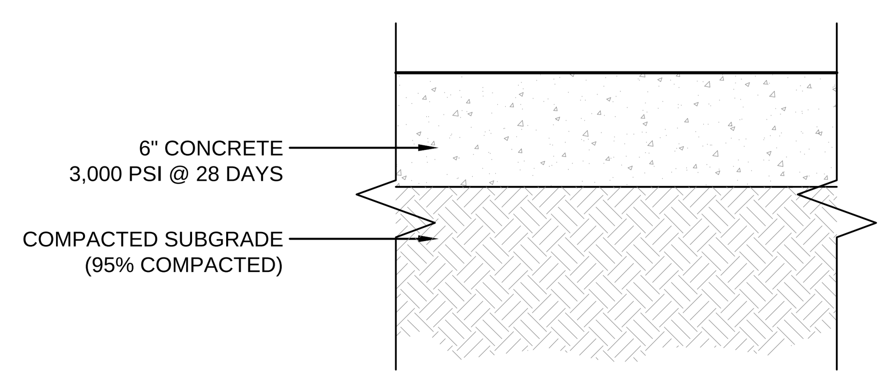



NOTES:

1. Detail is based on the cycle stall kit as manufactured by DERO. Kit is to be surface mounted to the existing street as shown.
2. Bike racks to be manufactured by DERO or approved equal. Style: Rail-mounted Heavy Duty Hoop bike racks, Material: galvanized. (1) 3 unit rack and (1) 5 unit rack.
3. (2) yellow rubber parking bumpers to be surface mounted to street as shown.
4. (3) yellow traffic delineators to be used and surface mounted to the street as shown.
5. Installation of all parts to be per the manufacturer's specifications.

## 3 STREETSIDE BICYCLE CORRAL

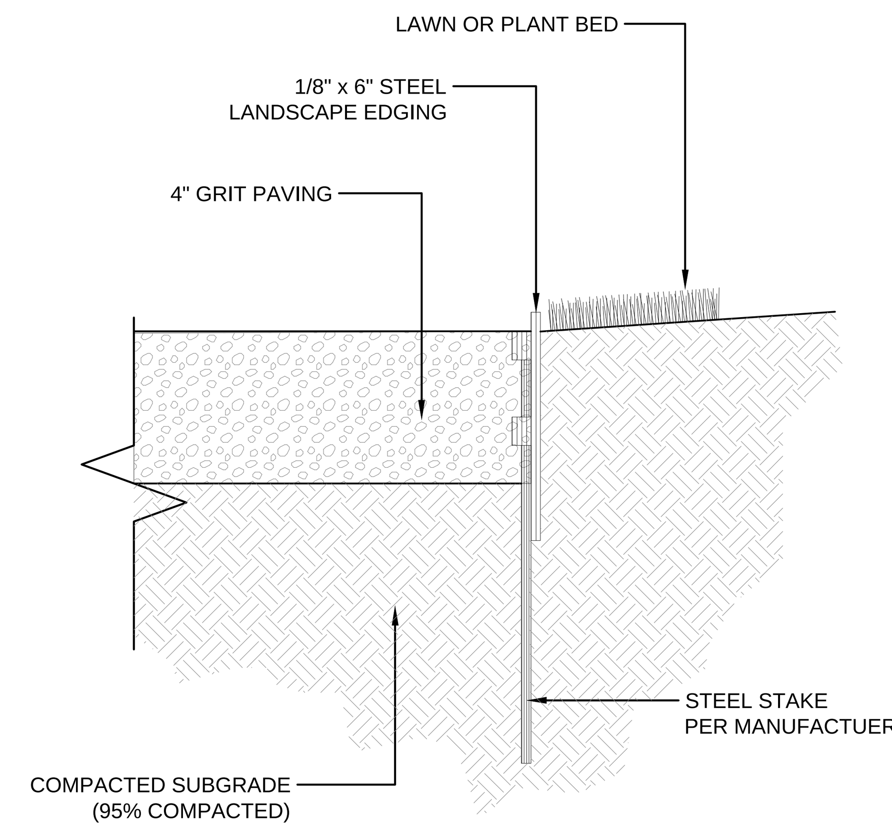
3/16" = 1'-0"




NOTES:
1) Cross slope as shown on grading plan.
2) Expansion joints every 30' or as shown on the plans.
3) Control joints every 5' or as shown on the layout plans
4) Broom Finish

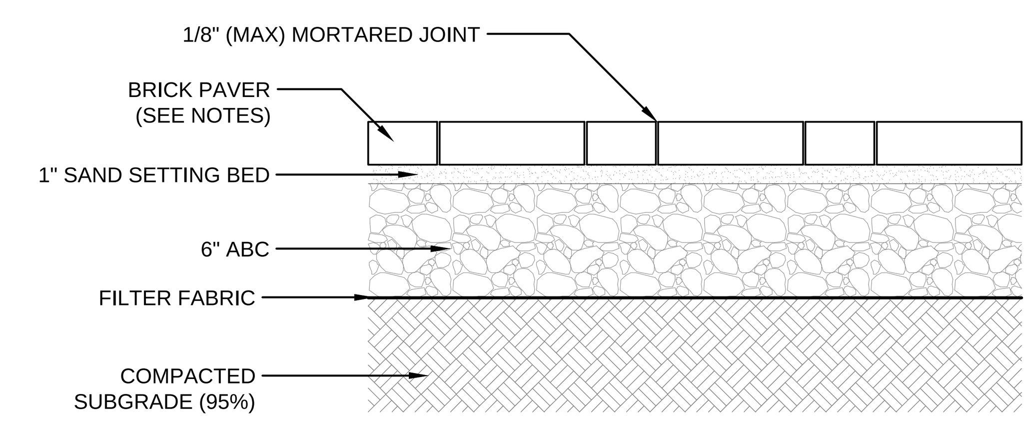
## 4 CONCRETE PAVING (STANDARD DUTY)

1 1/2" = 1'-0"




## 5 GRIT PATH W/ STEEL EDGING

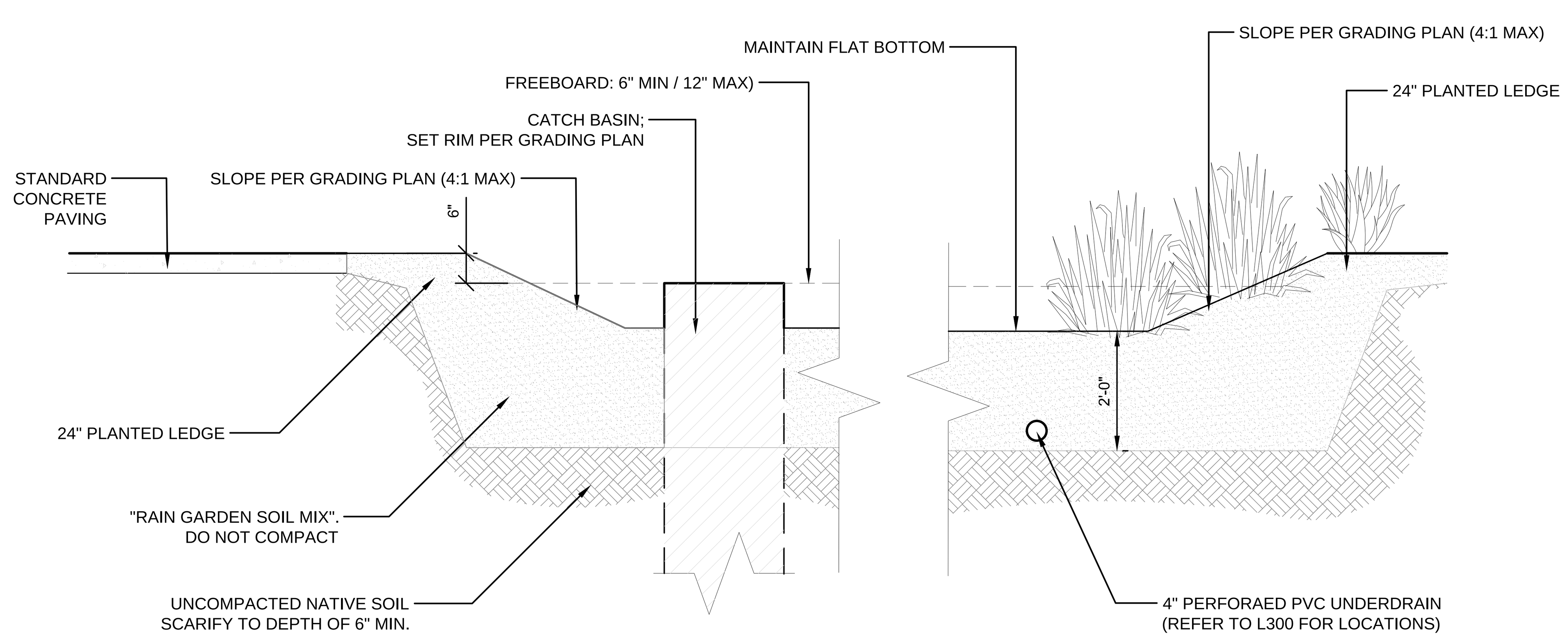
3" = 1'-0"




NOTES:
1) Pavers: Use Pine Hall 2 $\frac{1}{4}$" x 4" x 8" Rumbled courtyard full range pavers. Contractor to submit a sample for approval prior to installation.
2) Pavers shall be installed in compliance with ADA guidelines.

## 6 BRICK PAVING

1 1/2" = 1'-0"

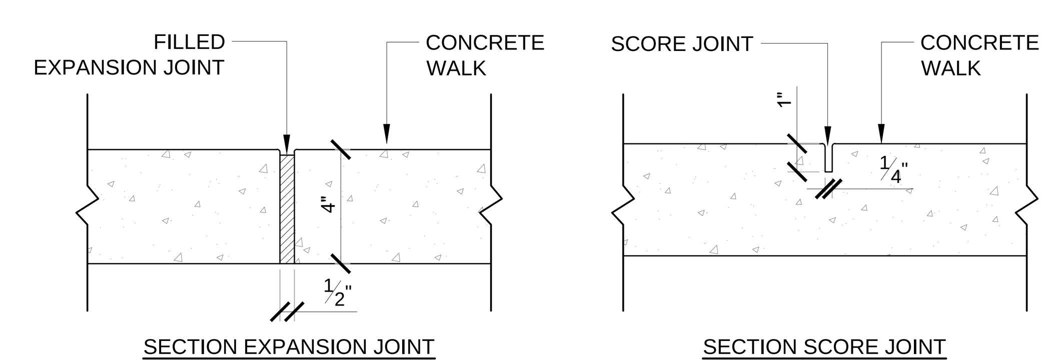



"Rain Garden Soil Mix"
1) 60% Sand and 40% organics. Locally sourced organics to consist of pine bark fines.

2) Contractor to provide soil analysis and sample for approval prior to installation.

## 7 RAIN GARDEN

1/2" = 1'-0"




NOTES:

1. Joint material to comply with current NCDOT standards.
2. Sanitary sewer clean-outs, water meters, manholes, and valve lids to be located outside sidewalk where feasible.
3. Minimum sidewalk width to be 6' minimum if placed at back of curb.
4. Concrete for all sidewalks (except any portion contain within a driveway apron) shall be class "a" - 3,000 psi.
5. Minimum replacement for repairs is a 5' x 5' panel.
6. 4" stone base may be required for poor soil conditions.
7. Minimum depth for tunneling below sidewalk is 12".
8. Max adjacent ground slope without railing is 2:1.
9. Min. grade for proper drainage is 1% in at least 1 direction. max cross slope is 2%. max longitudinal slope is 8.3%, 10% if limited by existing conditions, or no greater than the slope of the existing adjacent road.
10. Sidewalk to conform to City of Wilmington Standards.

## 8 SIDEWALK JOINTS - CITY OF WILMINGTON

3/16" = 1'-0"

CITY OF WILMINGTON NORTH CAROLINA

Construction Approval Block

Date:____________ Name:________________

Planning: ______________________________

Traffic: ______________________________

Fire: ______________________________

Engineering: ______________________________

Permit #: ______________________________

# DETAILS

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CONSULTANTS:

SEALS:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECTURAL CORP. C-110 OBS LANDSCAPE ARCHITECTS

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 549 BRIAN H. STARKEY

# Public Library Story Park

New Hanover County
209 Chestnust Street Wilmington, NC

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REVISIONS

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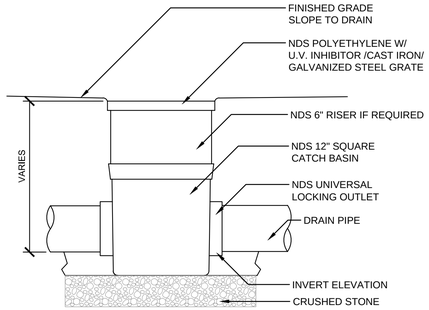
SCALES
HORIZ: NTS

BID DOCUMENTS

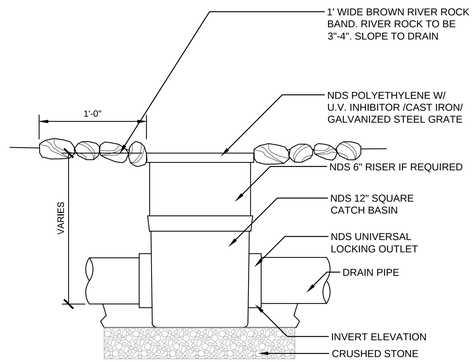
DETAILS

D100



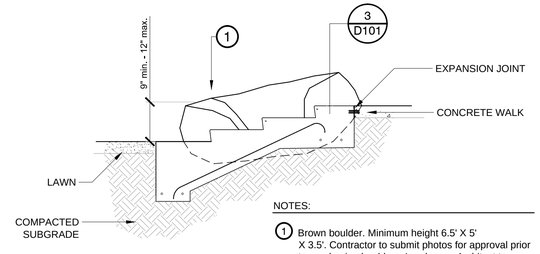

## 1 12" HDP INLET (IN LAWN)

1 1/2" = 1'-0"




## 2 12" HDP INLET (STONE SURROUND)

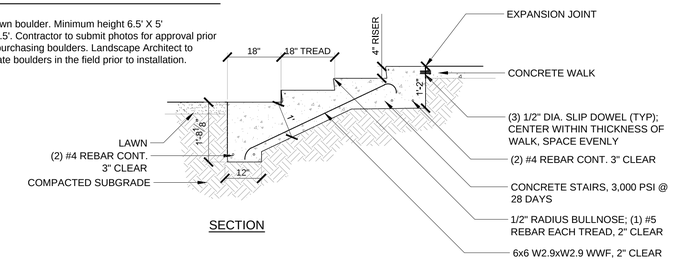
1 1/2" = 1'-0"




BOULDER INSTALLATION

NOTES:

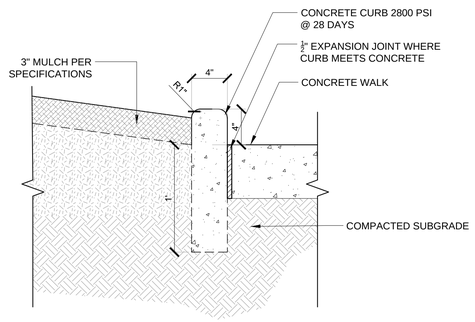
1. Brown boulder. Minimum height 6.5' X 5' X 3.5'. Contractor to submit photos for approval prior to purchasing boulders. Landscape Architect to locate boulders in the field prior to installation.




SECTION

## 3 CONCRETE STAIRS

1/2" = 1'-0"




## 4 PLANTER CURB

1 1/2" = 1'-0"

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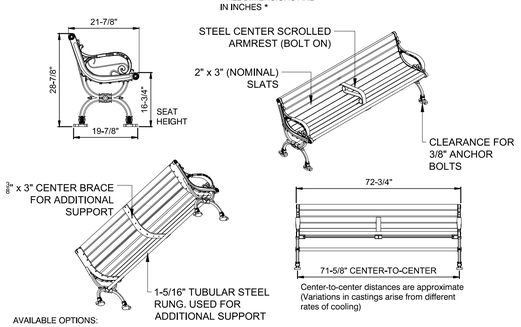


Center-to-center distances are approximate (Variations in castings arise from different rates of cooling)

AVAILABLE OPTIONS:
POWDER COATING
10 Standard colors, 2 optional metallic colors, Custom colors (including the ral range)
SLAT TYPES
Woods: philippine mahogany and ipe
2nd site systems® reinforced recycled PLASTIC SLATS
Colors: gray, maple, cherry, and walnut
(not available in 8-foot lengths)

Intermediate armrests (bolt-on) & center scrolled armrests (bolt-on) 4', 6', & 8' available with optional armrests
LENGTHS
Standard 4'
Standard 6' (as shown)
Standard 8'

NOTES:
1. Drawings not to scale, do not scale drawings.
2. All fabricated metal components are steel shotblasted, etched, phosphatized, preheated, and electrostatically powder-coated with t.g.i.c. polyester powder coatings. Products are fully cleaned and pretreated, preheated and coated while hot to fill crevices and build coating film. Coated parts are then fully cured to coating manufacturer's specifications. The thickness of the resulting finish averages 8-10 mils (200-250 microns).
3. It is not recommended to locate anchor bolts until bench is in place. this victor stanley, inc. product must be permanently affixed to the ground. Consult your local codes for regulations.
4. Anchor bolts not provided by Victor Stanley, Inc.
5. For high salt abusive climates, hot-dip galvanizing before powder coating is available. hot-dip galvanizing is performed for Victor Stanley, Inc. by an experienced qualified firm to which products are shipped for galvanizing. Hot-dip galvanizing includes an aggressive pre-treatment and immersion in a tank of charged liquid zinc at or around 860°F (460°C). The resulting surface is resistant to rust but has some unevenness resulting from the bonding of the zinc to the steel surface. as a result, the powder-coating surface finish over that galvanized surface may exhibit bumps, unevenness, and may not be as smooth as the standard finish; this uneven and inconsistent finish is normal for galvanizing. Contact manufacturer for details.
6. All specifications are subject to change. Contact manufacturer for details.
7. This product is shipped partially unassembled.

C-10
CLASSIC SERIES

Bench with ductile iron end frames shown: standard 6-foot length optional center scrolled armrest (bolt-on)

NOTE:
Color to be Cherry. Contractor to supply 6' bench with armrest to match existing streetscape.

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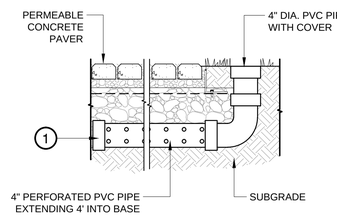
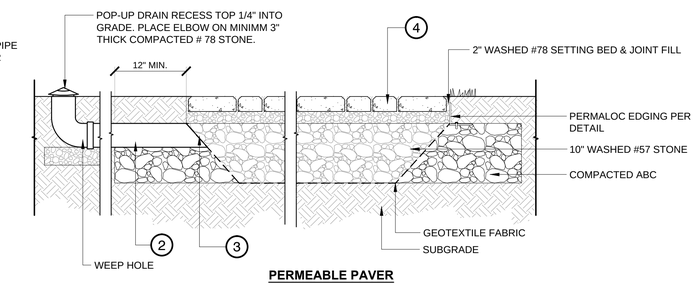
REV. 11/18/14 DRAWN L.D.L. 2014-884

## 5 BENCH

NOT TO SCALE




OBSERVATION WELL




PERMEABLE PAVER

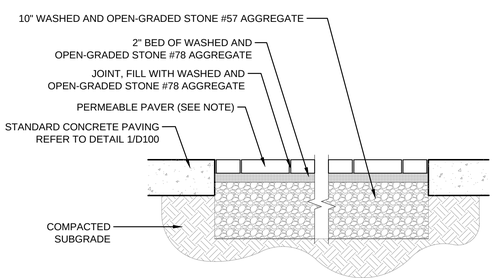
CALLOUTS

1. Perforated PVC pipe to be smooth-walled. Minimum perforation size to be 1/2".
2. 4" PVC pipe. Minimum 2% slope. Top of PVC level with top of #57 stone.
3. Cover pipe opening with 16 mesh fiberglass screen and fasten to pipe.
4. Eco Dublin permeable concrete paver as manufacturerd by Belgard or approved equal.

NOTES:
1. Design, material and construction guidelines to follow ICPI guide specifications
2. Daylight drain pipe as shown on plans.

## 6 PERMEABLE PAVERS

1" = 1'-0"




PERMABLE PAVERS:
1) Eco Dublin permeable paver as manufacturerd by Belgard or approved equal. Color: Ardennese.
3) All permeable pavers to be installed per ICPI standards and specifications.

## 7 PERMEABLE CONCRETE PAVERS

1" = 1'-0"

CITY OF WILMINGTON NORTH CAROLINA
Construction Approval Block
Date:_____ Name:_____
Planning: _____
Traffic: _____
Fire: _____
Engineering: _____
Permit #: _____

# DETAILS

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919.828.0564 tel
dbsla.net

CONSULTANTS:

SEALS:

NORTH CAROLINA LICENSED LANDSCAPE ARCHITECT C-110 DAVID B. SHUMATE ARCHITECTS

NORTH CAROLINA LICENSED LANDSCAPE ARCHITECT 549 BRIAN H. STARKEY

# Public Library Story Park

New Hanover County
209 Chestnut Street Wilmington, NC

DATE: 01/22/16
DESIGNER: LED
CHECKED BY: BHS

REVISIONS

| NO. | DATE |
|---|---|
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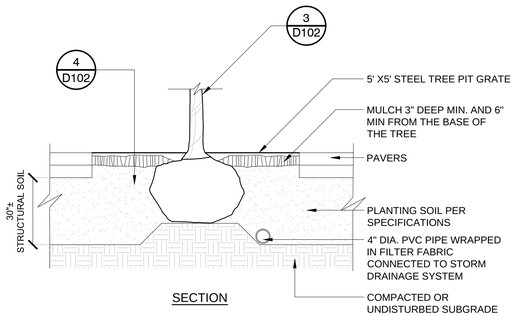
SCALES
HORIZ: NTS

BID DOCUMENTS

DETAILS

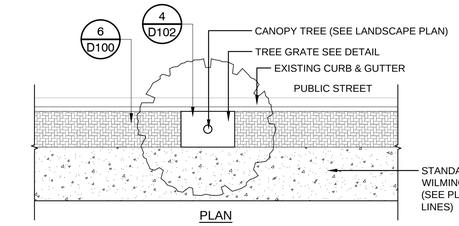
D101



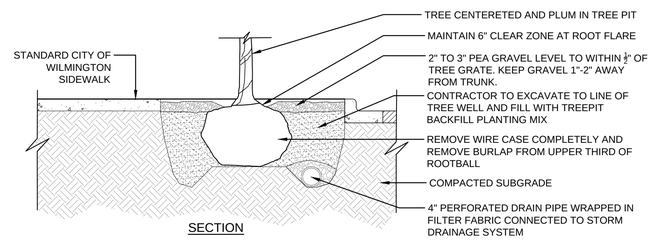

SECTION

## 1 TREE PIT WITH STRUCTURAL SOIL & GRATE

3/8" = 1'-0"




PLAN

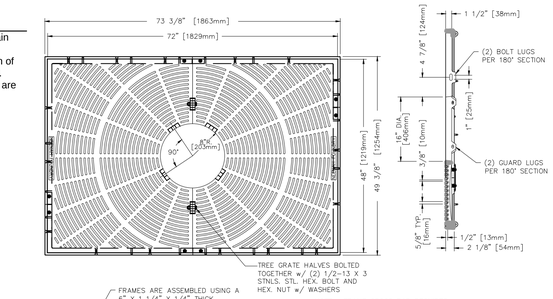



SECTION

NOTES:
1. Contractor to coordinate depth of drain pipe with existing utilities.
2. Trench and drain pipe to be the width of the tree well unless otherwise stated.
3. Trees planted in tree pits with grates are not to be staked.
4. Tree root crown to be level with the sidewalk.

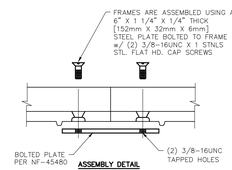
## 2 STREET TREE PLANTING - CITY OF WILMINGTON

NOT TO SCALE







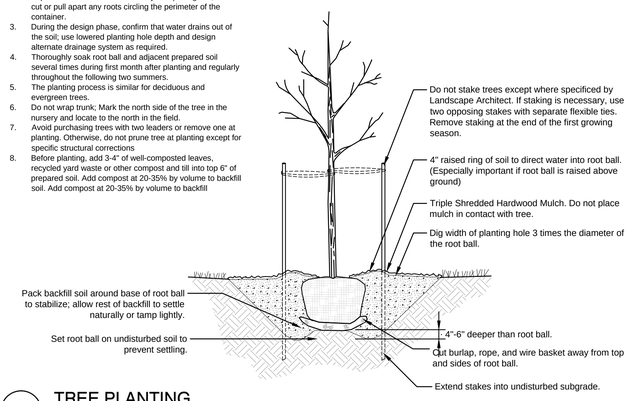



ASSEMBLY DETAIL
SCALE 1:3

NOTE: FRAME CROSS BAR REQUIRES REMOVAL AFTER INSTALLATION.
ALL DIMENSIONS ARE SHOWN IN ENGLISH AND [METRIC].
COMPONENT NO'S: (2) FRAME 8500-4872; (2) FRAME 8500-7272; (2) TREE GRATE 8811-0002
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NOT PAINTED
R-8811 48"X72" Boulevard collection cast iron tree grate by Neenah Foundry. 16" diameter expandable tree opening & type U tree grate frame.

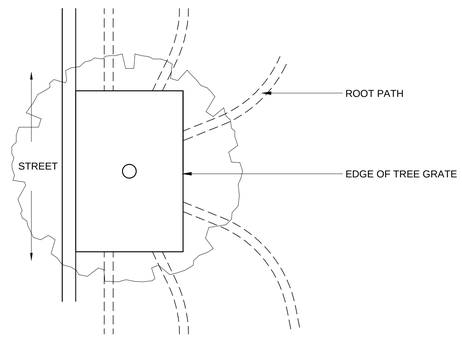
| TITLE: R-8811 4'-0" X 6'-0" TREE GRATE & FRAME | | |
|---|---|---|
| NEENAH FOUNDRY COMPANY NEENAH WISCONSIN 54956 | NF | NF- 8811 104 B |

NOTES:
1. Where several trees will be planted close together such that they will likely share root space, till in soil amendments to a depth of 4-6" (10-15cm) over the entire area
2. For container-grown trees, use fingers or small hand tools to pull the roots out of the outer layer of potting soil; then cut or pull apart any roots circling the perimeter of the container.
3. During the design phase, confirm that water drains out of the soil; use lowered planting hole depth and design alternate drainage system as required.
4. Thoroughly soak root ball and adjacent prepared soil several times during first month after planting and regularly throughout the following two summers.
5. The planting process is similar for deciduous and evergreen trees.
6. Do not wrap trunk; Mark the north side of the tree in the nursery and locate to the north in the field.
7. Avoid purchasing trees with two leaders or remove one at planting. Otherwise, do not prune tree at planting except for specific structural corrections
8. Before planting, add 3-4" of well-composted leaves, recycled yard waste or other compost and till into top 6" of prepared soil. Add compost at 20-35% by volume to backfill soil. Add compost at 20-35% by volume to backfill




## 3 TREE PLANTING

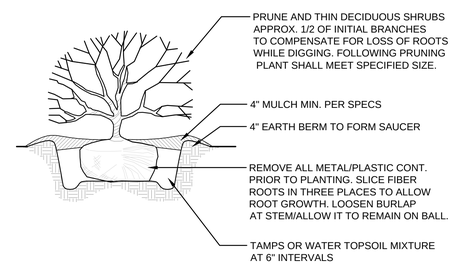
NOT TO SCALE




NOTES:
1. Contractor to install a minimum of 6 root paths per tree.
2. Where several trees will be planted close together such that they will likely share root space, till soil amendments per specifications.
3. Thoroughly soak root ball and adjacent prepared soil following planting and regularly throughout first growing season.
4. Do not handle trees by trunk, only handle by root ball.
5. Root paths to extend a minimum of 40'.

## 4 ROOT PATHS

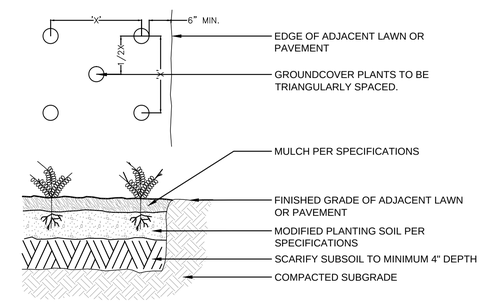
3/8" = 1'-0"




NOTES:
1. Soil mix: 1/3 organic matter, 2/3 exist soil.
2. Width of plant pit: sandy soil, 24" wider than plant ball; clay soil, 12" wider than plant ball
3. For planting areas where soil has been com-pacted by equip. contact LA prior to planting.
4. For camellias, rhodos, azaleas, and laurels: soil mix, 2/3 organic and 1/3 existing soil
5. Shrub shall bear same relationship to grade as it did prior to digging.

## 5 SHRUB PLANTING

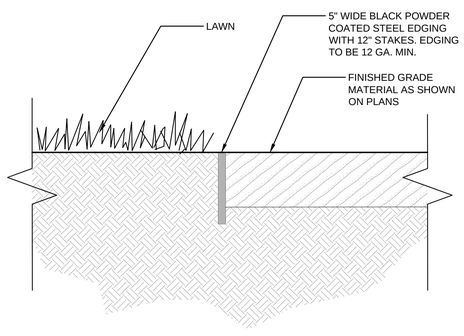
NOT TO SCALE




NOTES:
1. Typical spacing "X" noted in detail above is noted on plan as on center (OC) dimension.

## 6 GROUNDCOVER PLANTING

NOT TO SCALE




NOTES:
1. CONTRACTOR TO PROVIDE LANDSCAPE ARCHITECT WITH STEEL EDGING SAMPLE AND MANUFACTURER'S INSTALLATION DETAIL FOR APPROVAL PRIOR TO INSTALLATION.
2. EDGING COLOR TO BE BLACK.

## 7 STEEL PLANT BED EDGING

NOT TO SCALE

CITY OF WILMINGTON NORTH CAROLINA
Construction Approval Block
Date:_____ Name:_____
Planning: _____
Traffic: _____
Fire: _____
Engineering: _____
Permit #: _____

# DETAILS


dbsa landscape architects
po box 28504
raleigh nc 27611
919.832.0444
dbsla.net


CONSULTANTS:

SEALS:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 549 BRIAN H. STARKEY

# Public Library Story Park

New Hanover County
209 Chestnut Street Wilmington, NC

DATE: 01/22/16
DESIGNER: LED
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D102