#### ADDRESS: 3743 INDEPENDENCE BLVD. WILMINGTON, NC 28412 TAX PARCEL IDENTIFICATION NUMBERS: R06500-003-031-000 DB 5884 PG 2941 ZONING: RB, O&I-1, MF-M CAMA LAND CLASSIFICATION: URBAN HISTORICAL AND ARCHAEOLOGICAL SITES: NONE EXIST WETLANDS: NONE EXIST LAND COVER WOODED (SMALL PINES) O &I-1 DIMENSIONAL STANDARDS MINIMUM LOT AREA: 15,000 SF MAXIMUM LOT COVERAGE: 40% MINIMUM LOT WIDTH: 80' MINIMUM FRONT SETBACK: 20' MINIMUM REAR SETBACK: 20' MINIMUM INTERIOR SIDE SETBACK: 10' MINIMUM CORNER LOT SETBACK: 20' • HEIGHT: 45' RB DIMENSIONAL STANDARDS MINIMUM LOT AREA 1 ACRE MINIMUM LOT WIDTH 100 FT. MINIMUM LOT COVERAGE 40% MINIMUM FRONT SETBACK 25 FT. MINIMUM REAR SETBACK 15 FT. MINIMUM INTERIOR SIDE SETBACK 0 FT. MINIMUM CORNER SIDE SETBACK 25 FT. MAXIMUM HEIGHT 35 FT. MF-M DIMENSIONAL STANDARDS MINIMUM LOT AREA 20,000 S.F. MINIMUM DETACHED 5,000 S.F. MAXIMUM DENSITY 17 UNITS PER ACRE MINIMUMLOT WIDTH 100 FT. MAXIMUM LOT COVERAGE 50% MAXIMUM HEIGHT 35 FT. TOTAL ACREAGE (INCLUDES STREETS R/W)= 81.57 ACRES • LOT 1- 3.62 AC • LOT 2- 4.02 AC • LOT 3- 4.00 AC LOT 4 - 10.13 AC • LOT 5 - 1.93 AC • LOT 6 - 1.87 AC LOT 7 - 2.14 AC LOT 8 - 51.66 AC • STREET R/W - 2.21 AC • TOTAL 81.57 AC EXISTING STORMWATER PERMIT: SW8 951208 PROPOSED IMPERVIOUS • STREETS - 62,150 SF DRIVE - 21,480 SF • SIDEWALKS- 15,535 SF • TOTAL IMPERVIOUS- 99,165 SF

SITE INVENTORY TABLE:

# SOILS DATA: PRIMARILY MURVILLE FINE SAND (Mu) • EROSION FACTOR - 0.05 • HIGHLY PERMEABLE, HYDRAULIC GROUP A/D AASHTO A-2-4 AVERAGE DAILY DEMAND 60,000 GPD PEAK HOURLY DEMAND 105 GPM STABILIZATION TIME FRAMES STABILIZATION Perimeter dikes, swales, ditches and slopes 7 DAYS High Quality Water (HQW) Zones 7 DAYS 14 DAYS 14 DAYS All other areas with slopes flatter than 4:1 |

• % IMPERVIOUS - 2%

EXISTING GROUND COVER: WOODED

**GENERAL NOTES:** 1. This map is not for conveyance, recordation, or sales. 2. This property is not located within a flood hazard area according to Flood Insurance Rate Map Community ID# 370171 panel 3126 suffix J effective date April 3, 2006 3. This property is zoned O&I-1, City of Wilmington. 4. Water service to be CFPUA (public). 5. Sewer service to be CFPUA (public). 6. Topographic data furnished by County Topo and other sources not field verified. Additional topo of Construction limits from HDS, January 2018.

LEGEND

INV. = INVERT

G\W = GUY WIRE

GT. = GREASE TRAP

= CURB INLET

© = CURB RAMP

W = WATER SERVICE

= SEWER CLEANOUT

■ = WATER VALVE

PROPERTY LINE

CENTERLINE

EASEMENT

BUILDING SETBACK

EXISTING CONTOUR

STORM DRAIN

SITE AREA DESCRIPTION

Slopes steeper than 3:1

Slopes 3:1 or flatter

COMPUTED PROPERTY LINE

PROPOSED SANITARY SEWER

PROPOSED SIDEWALK

I.S. = IRON SET

TREE =

W\V = WATER VALVE

W\M = WATER METER

B/O = BLOW OFF ASSEMBLY

SWMH = STORM MANHOLE

F\H = FIRE HYDRANT ASSEMBLY

S = SANITARY SEWER MH

BFP = BACK FLOW PREVENTOR

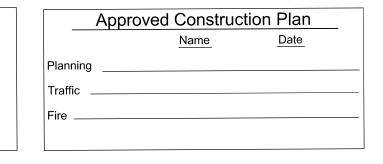
C\O = SANITARY SEWER CLEAN OUT

	INDEX TO DRAWINGS	
SHEET No.	DESCRIPTION	
SRB-1 OF SRB-7	COVER SHEET	1
SRB-2-4 OF SRB-7	GENERAL SITE PLAN SHEETS	
SRB-5-6 OF SRB-7	GENERAL DETAILS	
SRB-7 OF SRB-7	EXISTING CONDITIONS	
PP1 OF PP5	PLAN AND PROFILE STONE CROP DRIVE	
PP2 OF PP5	PLAN AND PROFILE CHIPPENHAM DRIVE	
PP3 OF PP5	PLAN AND PROFILE CICERO WAY (ACCESS DRIVE)	
PP4 OF PP5	INDEPENDENCE SIDEWALK DETAILS	
PP5 OF PP5	ADDITIONAL STORM PROFILES	
D1 OF D3	ADDITIONAL DETAILS	
D2 OF D3	CFPUA WATER DETAILS	
D3 OF D3	CFPUA SEWER DETAILS	
EC1 OF EC4	EROSION CONTROL	
EC2-EC4 OF EC4	EROSION CONTROL	
TS1-TS1	TREE SURVEY / TREE REMOVAL PLAN	
L1 - L1	STREET TREE PLAN	BY OTHERS

ANY AREAS ON-SITE WITHOUT ACTIVITY SHALL BE STABILIZED WITHIN 15 WORKING DAYS OR 21 CALENDAR DAYS AND AS ABOVE. ALL SLOPES MUST BE STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY DETAILS SHOWN ARE TYPICAL OF INSTALLATIONS REQUIRED BY THE TOWN AND COUNTY. THIS SHEET DOES NOT PURPORT TO SHOWALL REQUIRED CONSTRUCTION DETAILS. BUT RATHER SERVES AS A GUIDE. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL No geotechnical testing has been performed on site. No warranty is made for suitability of subgrade, and undercut and any required replacement with suitable material shall be the responsibility of the contractor.

> WATER AND SEWER TOTALS 8" WATER MAIN: 1655 LF 8" SEWER LINE: 1089 LF

STORMWATER MANAGEMENT For each open utility cut of **APPROVED** City streets, a \$325 permit CITY OF WILMINGTON shall be required from the City prior to occupancy ENGINEERING DEPARTMENT and/or project acceptance. PERMIT# SIGNED



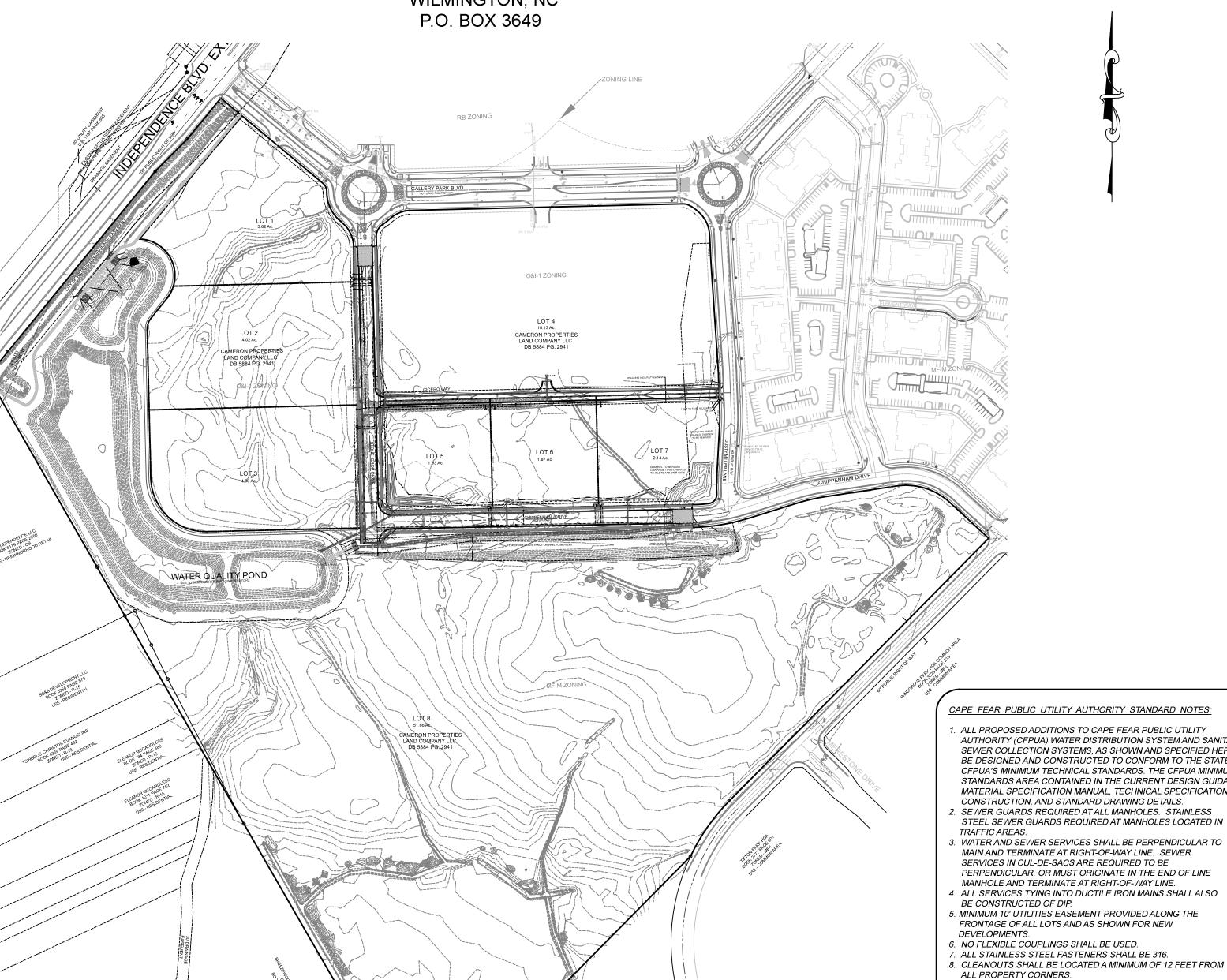
TRC COMMENTS 7/17/19 4/1/2019 REV. NO. REVISIONS DATE Copyright (), Hanover Design Services, P.A., All rights reserved. Reproduction or use of the contents of this document, or additions or deletions to this locument, in whole or part, without written consent of the Land Surveyor or Engineer, is prohibited. Only copies from the original of this document. ocument, in whole or part, without written consent of the Land Surveyor or Engineer, is prohibited. Only copies from the original of this detailed with the original signature and original seal of the Surveyor or Engineer, shall be considered to be valid and true copies.

SITE ' **LOCATION MAP** 

LOCATED IN THE CITY OF WILMINGTON, NEW HANOVER COUNTY, NORTH CAROLINA DESCRIPTION OF WORK: GRADING, PAVING, DRAINAGE, AND UTILITIES

OWNER: CAMERON PROPERTIES LAND COMPANY, LLC WILMINGTON, NC

The Pointe at Barclay Street and Utility Extensions



AUTHORITY (CFPUA) WATER DISTRIBUTION SYSTEM AND SANITARY SEWER COLLECTION SYSTEMS, AS SHOWN AND SPECIFIED HEREIN, SHALL BE DESIGNED AND CONSTRUCTED TO CONFORM TO THE STATE RULES AND THE CFPUA'S MINIMUM TECHNICAL STANDARDS. THE CFPUA MINIMUM TECHNICAL STANDARDS AREA CONTAINED IN THE CURRENT DESIGN GUIDANCE MANUAL, MATERIAL SPECIFICATION MANUAL, TECHNICAL SPECIFICATIONS FOR

COUNTY and CFPUA TECHNICAL STANDARDS.

8. ALL PROPERTY CORNERS. WATER METER BOXES ARE TO BE A

MINIMUM OF 5 FEET FROM THE PROPERTY CORNER. 10. UNUSED SERVICES SHALL BE ABANDONED. ABANDONED WATER SERVICES

SHALL BE DISCONNECTED FROM MAIN. 11.A MINIMUM OF 10' OF MAIN LINE SHALL BE REPLACED FOR NEW CONNECTIONS TO EXISTING CLAY GRAVITY SEWER MAINS.

CFPUA PERMIT REQUIRED FOR ANY UTILITY SERVICES WORK. CONTRACTOR RESPONSIBLE FOR PERMIT AND COORDINATION WITH CFPUA. ALL SERVICES TO BE INSTALLED IN ACCORDANCE WITH

#### GENERAL NOTES:

1. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES AT ALL CROSSINGS PRIOR TO COMMENCING TRENCH EXCAVATION. IF ACTUAL CLEARANCES ARE LESS THAN INDICATED ON PLAN, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ANY CONDITION DISCOVERED OR EXISTING THAT WOULD NECESSITATE A MODIFICATION OF THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

2. NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED. CALL "NC ONE-CALL" AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION. 3. ALL TREES WHICH ARE NOT REQUIRED TO BE CLEARED FOR

CONSTRUCTION SHALL BE PRESERVED WHEREVER POSSIBLE UNLESS OTHERWISE DIRECTED. 4. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE AND CURB BOXES TO THE FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION. ANY BOXES

DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. 5. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST AND EROSION DURING CONSTRUCTION AT HIS EXPENSE. PARKING AREAS SHALL BE

WATERED TO CONTROL DUST WHEN ORDERED BY THE ENGINEER. 6. NO GEOTECHNICAL TESTING HAS BEEN PERFORMED ON SITE. NO WARRANTY IS MADE FOR SUITABILITY OF SUBGRADE, AND UNDERCUT AND ANY REQUIRED REPLACEMENT WITH SUITABLE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

CONTRACTOR RESPONSIBLE FOR GEOTECHNICAL TESTING AS NECESSARY. 7. EXTREME CARE SHALL BE TAKEN TO ENSURE MINIMUM SEPARATIONS AT ALL UTILITY CROSSINGS.

8. CONTRACTOR TO ENSURE THAT STREET PAVEMENT IS PLACED SO AS TO DRAIN POSITIVELY TO THE ROADWAY INLETS AND CATCH BASINS.

9. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.

10. THIS PLAN IS FOR SITE UTILITIES, GRADING, ROADWORK, AND DRAINAGE ONLY. 11. AFFECTED NON-MUNICIPAL UTILITIES SHALL BE CONTACTED AND PROVIDED WITH PLANS AND OTHER PERTINENT INFORMATION, WHEN FEASIBLE, TO

COORDINATE APPROPRIATE SCHEDULING AND PLACEMENT. AT THE MINIMUM THIS SHOULD INCLUDE AT&T AND DUKE (PROGRESS) ENERGY. 12. ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND ALL APPLICABLE STATE & LOCAL CODES.

13. CONTRACTOR TO COORDINATE ANY REQUIRED TRAFFIC CONTROL WITH THE STATE AND THE CITY. CONTRACTOR RESPONSIBLE FOR ANY ADDITIONAL REQUIRED PERMITS.

14. CARE SHALL BE TAKEN DURING FINAL GRADING TO ENSURE POSITIVE DRAINAGE TO RECEIVING STRUCTURES. ALL STORM WATER RUNOFF FROM BUILT UPON AREAS (i.e. IMPERVIOUS SURFACES and ROOF DRAINAGE) TO BE DIRECTED TO STORM SEWER COLLECTION SYSTEM (i.e. STORM INLETS OR PONDS) BY SWALES, OVERLAND FLOW, ADDITIONAL GRADING, OR

16. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ANY RELOCATIONS, REALIGNMENTS, DISCONNECTIONS OR CONNECTIONS OF EXISTING UTILITIES WITH APPLICABLE AUTHORITIES.

17. CLEARING AND GRUBBING OF SITE TO INCLUDE REMOVAL OF EXISTING CURB, ASPHALT, INLETS, AND ANY OTHER STRUCTURES INCLUDING TREES. STUMPS AND DEBRIS EXISTING ON SITE. TREES NOT REQUIRED TO BE CLEARED FOR CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE DIRECTED.

18. ALL SIGNS AND PAVEMENT MARKINGS SHALL MEET CITY, NCDOT AND MUTCD STANDARDS

19. SANITARY SERVICES SMALLER THAN 8" SHALL HAVE CLEANOUTS AT INTERVALS OF NOT MORE THAN 100'. CLEANOUTS SHALL BE PROVIDE FOR SERVICE LINES AND BUILDING DRAINS THAT HAVE HORIZONTAL DIRECTION CHANGES GREATER

20. SEE 2018 IPC FOR FURTHER GUIDANCE ON UTILITY SERVICE REQUIRMENTS.

## ADDITIONAL STORM WATER NOTES:

1. ALL STORM WATER RUNOFF FROM BUILT UPON AREAS (I.E. IMPERVIOUS SURFACES AND ROOF DRAINAGE) TO BE DIRECTED TO THE STORM SEWER COLLECTION SYSTEM (I.E. STORM INLETS OR PONDS) BY SWALES, OVERLAND FLOW, ADDITIONAL GRADING

2. CONTRACTOR TO ENSURE THAT STREET PAVEMENT AND CURBING IS PLACED TO DRAIN POSITIVELY TO CURB INLETS AND DRAINAGE STRUCTURES.

3. FOR STORM PIPE MATERIAL AND INSTALLATION SEE DETAILS AND NCDOT STANDARD DRAWINGS 300.1 4. ROOF DRAINS SHALL BE SIZED ACCORDING TO THE 2018 INTERNATIONAAL PLUMBING CODE AND ALL AND SHALL CONFORM TO ANY LOCAL REQUIREMENTS

5. ANY ROOF DRAIN LOCATIONS SHOWN HERE ARE APPROXIMATE AND MAY BE FIELD ADJUSTED AS LONG AS THE MINIMUM REQUIRED SLOPE IS MAINTAINED.

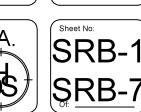
The Pointe at Barclay
Street and Utility Extensions

NEW HANOVER COUNTY, NORTH CAROLINA

CAMERON PROPERTIES LAND COMPANY, LLC 1201 GLEN MEADE ROAD PO BOX 3649 WILMINGTON, NC 28406 910-762-2676

HANOVER DESIGN SERVICES, P.A. LAND SURVEYORS, ENGINEERS & LAND PLANNERS 1123 FLORAL PARKWAY

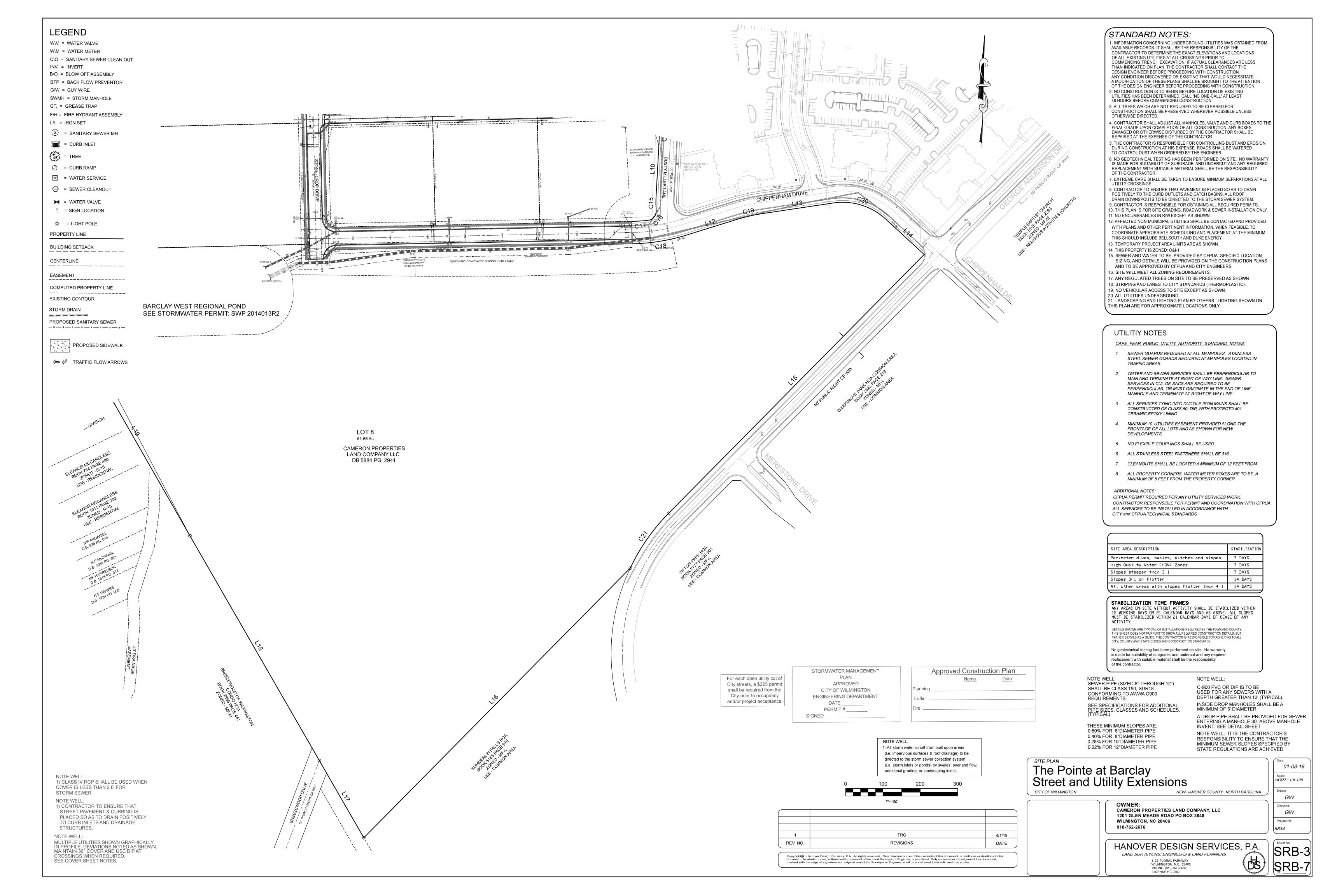
ILMINGTON, N.C. 28403 PHONE: (910) 343-8002

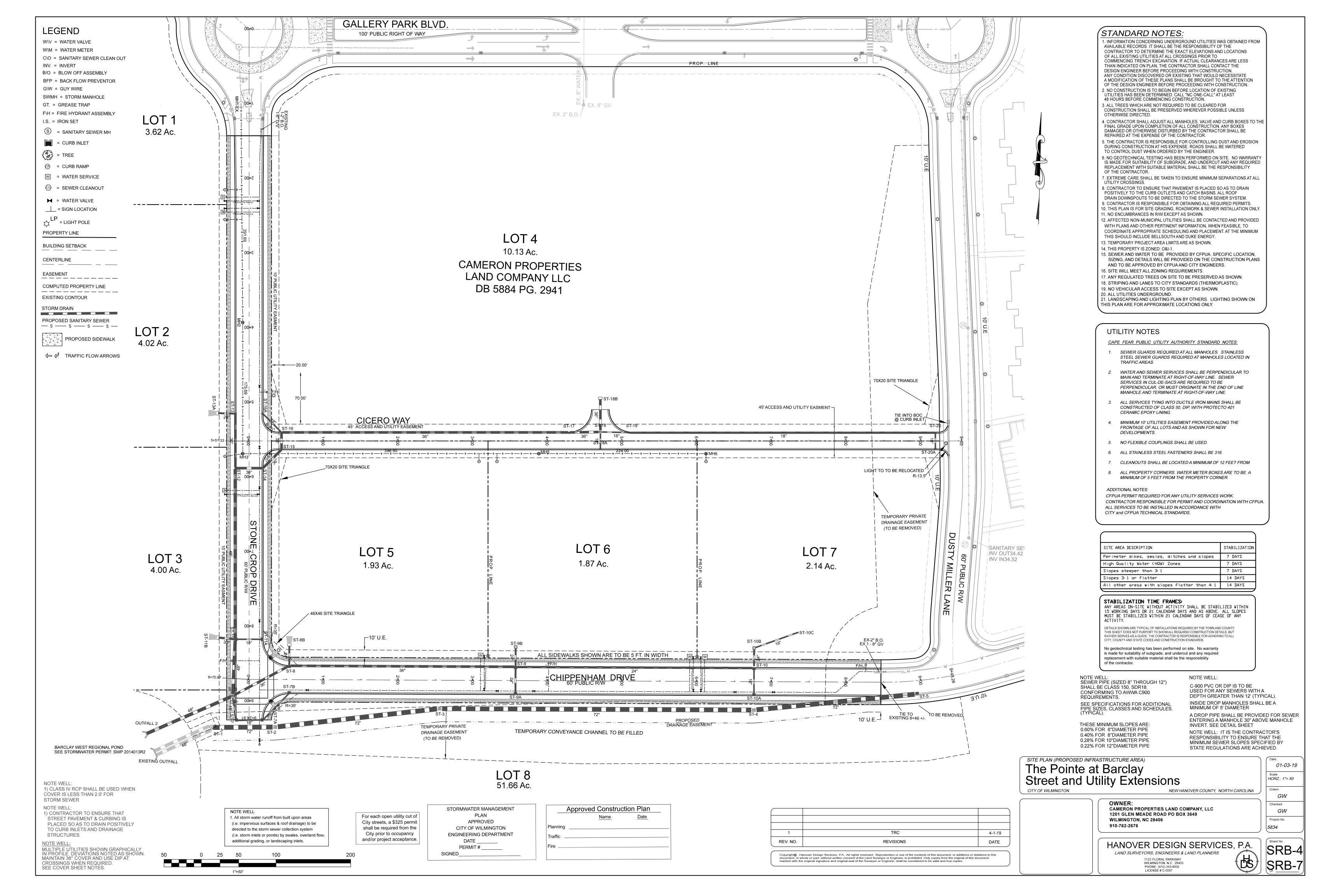


01-03-19

HORZ.: 1"= 200'

GW





#### CITY STANDARD NOTES:

- 1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND 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.

#### TRAFFIC ENGINEERING

- 4. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY, MUTCD, AND/OR NCDOT STANDARDS.
- 5. ONCE STREETS ARE OPEN TO TRAFFIC. CONTACT TRAFFIC ENGINEERING TO REQUEST INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- 6 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.
- 7. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN
- 8. CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- 9. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- 10. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE
- MAINTAINED BY THE OWNER IN ACCORDANCE WITH MUTCD STANDARDS. 11. STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.

MUST RECEIVE A STREET DISCLOSURE STATEMENT

- 12. TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS. 13. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. IN CERTAIN
- CASES ENTIRE RESURFACING OF THE OPEN CUT AREA MAY BE REQUIRED.
- 14. ANY BROKEN OR MISSING SIDEWALK, DRIVEWAY PANELS OR CURBING SHALL BE REPLACED WHETHER DAMAGED DAMAGED DURING CONSTRUCTION OR DAMAGE WAS EXISTING 15. PRIOR TO ENTERING ANY AGREEMENT REGARDING THE SALE OF A HOUSE OR LOT IN A SUBDIVISION, THE BUYER
- 16. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SITE LINES
- 17. CONTACT THE CITY AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS. PROPOSED APPROXIMATE LOCATIONS SHOWN ON PLANS.
- STREET LIGHTS SHALL BE DEP ENCLOSED CUTOFF (COBRA TYPE), HIGH PRESSURE SODIUM VAPOR (HPSV) OR DESIGNATED LED EQUIVALENT FIXTURE INSTALLED WITHIN THE RECOMMENDED RANGE OF MOUNTING HEIGHTS FOR THE SPECIFIC FIXTURE. THE STANDARD STREET LIGHT SHALL BE INSTALLED ON A FIBERGLASS POLE. SEE CITY TECHNICAL STANDARDS FOR FURTHER DETAIL.

#### **GENERAL UTILITY NOTES**

- 19. WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
- 20. PROJECT SHALL COMPLY WITH CAPE FEAR PUBLIC UTILITY AUTHORITY CROSS CONNECTION CONTROL REQUIREMENTS. WATER METERS CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 343-3910 FOR INFORMATION.
- 21. 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
- 22. ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH CFPUA CROSS CONNECTION CONTROL REGULATIONS. CALL 343-3910 FOR INFORMATION.
- 23. ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- 24. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCCCHR OR ASSE.
- 25. CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS. SIZES AND MATERIALS PRIOR TO CONSTRUCTION ENGINEER TO BE NOTIFIED OF ANY CONFLICTS
- 26. CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL
- 27. UNDERGROUND FIRE LINES MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON
- 28. CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO ANY DIGGING, CLEARING OR GRADING.

FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0696.

29. ANY PVC MAINS ARE TO BE MARKED WITH NO.10 INSULATED COPPER WIRE INSTALLED THE ENTIRE LENGTH AND ATTACHED TO THE PIPE AND STRIPPED TO BARE WIRE AND SECURED TO ALL VALVES AND FITTINGS, ACCESSIBLE IN ALL VALVE AND METER BOXES. ALL WATER MAINS SHALL MAINTAIN A MINIMUM OF 3' OF COVER.

## ADDITIONAL NOTES:

- 1. THIS MAP IS PRELIMINARY, NOT INTENDED FOR RECORDATION, SALES, OR CONVEYANCE.
- 2. ALL DISTANCES AS SHOWN ARE HORIZONTAL
- 3. SEWER PROVIDED BY CFPUA
- 4. WATER PROVIDED BY CFPUA
- 5. SITE WILL MEET ALL ZONING REQUIREMENTS.
- 6. REGULATED TREES ON SITE TO BE PRESERVED AS SHOWN.
- 7. STRIPING AND LANES TO CITY STANDARDS (THERMOPLASTIC).
- 8. NO VEHICULAR ACCESS TO SITE EXCEPT AS SHOWN.
- 9. ALL UTILITIES UNDERGROUND.
- 10. LANDSCAPING AND LIGHTING PLAN BY OTHERS.
- 11. CONTRACTOR TO COORDINATE STAGING OF CONSTRUCTION ACTIVITIES WITH THE OWNER AND ARCHITECT TO FACILITATE ONGOING ADJOINING BUSINESS ACTIVITIES.

12. CONTRACTOR TO COORDINATE REMOVAL AND RELOCATION OF LIGHTING AND OTHER NON-MUNICIPAL UTILITIES SUCH AS ELECTRICAL AND TELEPHONE CONNECTIONS WITH THE AFFECTED AGENCIES AND THE OWNER AND ARCHITECT.

13. ALL SERVICES TO BE INSTALLED IN ACCORDANCE WITH CITY and CFPUA TECHNICAL STANDARDS.

#### ADDITIONAL NOTES CONT.:

- 14. This property is not located within a special flood hazard area according to Flood Insurance Rate Map Community Panel #37203126J, effective date April 3, 2006.
- 15. Handicap Ramps shall be provided at all intersections
- 18. Reflectors sHall Be Installed As Per City And NCDOT Standards.
- 19. Per the requirements of the stormwater permit, the following shall occur prior to issuance of a certificate of occupancy or operation of the permitted facility \* As-built drawings for all stormwater management facilities shall be submitted to the city of Wilmington engineering division. \*An engineer's certification shall also be submitted, along with all supporting documentation that specifies, under seal that the as-built stormwater measures, controls and devices are in compliance with the approved stormwater management plans.
- \* A final inspection by city of Wilmington engineering personnel. 20. All required easement maps shall be reviewed by city staff and recorded prior to issuance of a certificate of occupancy.

#### UTILITY NOTES

SEWER AND WATER TO BE PUBLIC AND PROVIDED BY CFPUA. SPECIFIC LOCATION, SIZING, AND DETAILS WILL BE PROVIDED ON THE CONSTRUCTION PLANS AND ARE TO BE APPROVED BY CFPUA AND CITY ENGINEERS.

- 1. CFPUA STANDARD DETAIL SHEETS FOR SEWER AND WATER TAPS TO BE INCLUDED AS A PART OF THIS PLAN. ATTACHED.
- 2. 48-HOUR NOTICE AND 3 COMPLETE SETS OF PLANS REQUIRED FOR PRE-CONSTRUCTION MEETING BY CONTRACTOR.
- 3. NCDOT ENCROACHMENT REQUIRED FOR ANY WORK IN PUBLIC R/W.
- 4. ALL FEES TO BE PAID PRIOR TO PRE-CONSTRUCTION MEETING.
- CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:
- TRAFFIC AREAS WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT RIGHT-OF-WAY LINE SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE

SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS

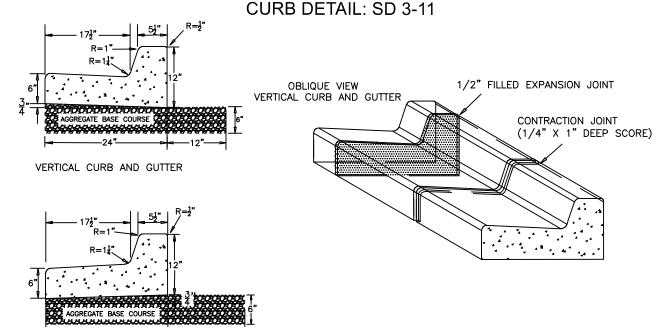
PERPENDICULAR, OR MUST ORIGINATE IN THE END OF LINE

STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN

- MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE. ALL SERVICES TYING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF CLASS 50, DIP, WITH PROTECTO 401
- CERAMIC EPOXY LINING. MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE
- FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
- NO FLEXIBLE COUPLINGS SHALL BE USED.
- 6. ALL STAINLESS STEEL FASTENERS SHALL BE 316.
- CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM
- ALL PROPERTY CORNERS. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.

CFPUA PERMIT REQUIRED FOR ANY UTILITY SERVICES WORK. CONTRACTOR RESPONSIBLE FOR PERMIT AND COORDINATION WITH CFPUA. ALL SERVICES TO BE INSTALLED IN ACCORDANCE WITH CITY and CFPUA TECHNICAL STANDARDS.

# CITY OF WILMINGTON



NOTES: 1. EXPANSION JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS 2. 50' MAX EXPANSION JOINT SPACING, 10' MAX CONTRACTION JOINT SPACING 3. MINIMUM INSTALLATION LENGTH IS 5 FT. . CONCRETE TO BE 3000 PSI MIN 5. VERTICAL CURB AND GUTTER BASE CAN BE SLOPED 3/4" OR USE A FLAT BASE

MEDIAN VERTICAL CURB AND GUTTER

CITY OF WILMINGTON

1.0-8.3% (30"MAX RISE)

WARNING DOMES

WARNING DOME NOTES: 1. USE CONTRASTING COLORS, RED OR BLACK ON WHITE PAVEMENT.

. USE CAST IN PLACE PAVERS FOR NEW CONSTRUCTION.

4. LANDING AND RAMP WIDTH MAY BE REDUCED TO 3' WHERE SPACE

IS LIMITED AND DESIGN IS APPROVED BY THE CITY ENGINEER.

3. RUBBER MATS ARE PERMITTED FOR RETROFITS.

RAMP WIDTH—

MIN LANDING WIDTH = RAMP WIDTH

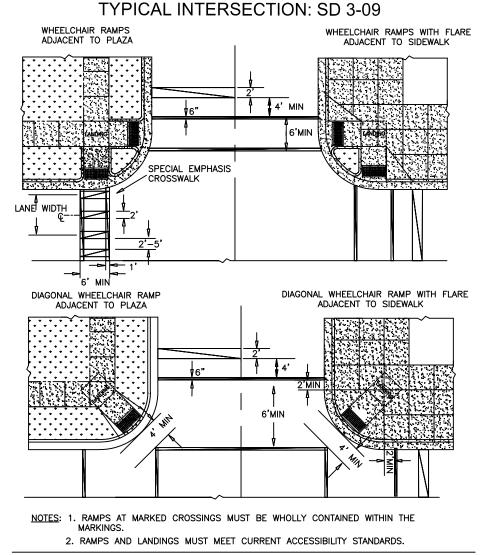
MAX SLOPE 2% IN ANY DIRECTION

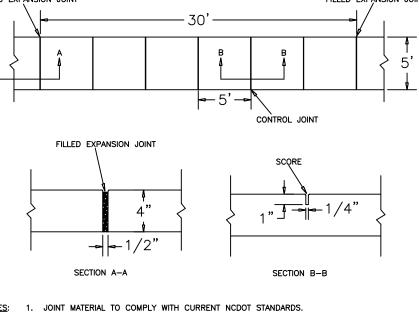
TYPICAL CURB RAMP: SD 3-07

8.3% MAX (X<36") (FOR ALTERATIONS

TRUNCATED DOMES

# CITY OF WILMINGTON





- - SANITARY SEWER CLEAN—OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
  - 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
  - 8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1 CONDITIONS, OR NO GREATER THAN
    THE SLOPE OF THE EXISTING ADJACENT ROAD.

### ADA NOTES

- I. LOCATION OF WHEELCHAIR RAMPS.
- 1. IN ACCORDANCE WITH THE RATIFIED HOUSE BILL 1296, ALL STREET CURBS IN NORTH CAROLINA BEING CONSTRUCTED OR RECONSTRUCTED FOR MAINTENANCE PROCEDURES, TRAFFIC OPERATIONS, REPAIRS, CORRECTION OF UTILITIES OR ALTERED FOR ANY REASON AFTER SEPTEMBER 1973 SHALL PROVIDE WHEELCHAIR RAMPS FOR THE PHYSICALLY HANDICAPPED AT ALL INTERSECTIONS WHERE BOTH CURB AND GUTTER AND SIDEWALKS ARE PROVIDED AND AT OTHER MAJOR POINTS OF PEDESTRIAN FLOW. 2. WHEELCHAIR RAMPS SHOULD BE LOCATED AS INDICATED IN DETAIL DRAWINGS, HOWEVER EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. MAY AFFECT PLACEMENT.
- II. CONSTRUCTION NOTES:
- 1. NO SLOPE SHALL EXCEED 1"=1" (12:1) ON THE RAMP OR SIDEWALK. 2. IN NO CASE SHALL THE WIDTH OF WHEELCHAIR RAMPS BE LESS THAN 40" (3'-4"). WIDTHS MAY EXCEED 40" IF NECESSARY. 3. USE CLASS "A" CONCRETE WITH THE SURFACE HAVING A ROUGH, NON-SKID
- TYPE FINISH 4. 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE CONCRETE WHEELCHAIR RAMP JOINS ANY RIGID PAVEMENT OR STRUCTURE 5. CONSTRUCTION METHODS SHALL CONFORM WITH THOSE OF THE GOVERNING BODY WHICH HAS JURISDICTION OF THE PARTICULAR STREET.
- 1. THE INSIDE PEDESTRIAN CROSSWALK LINES SHALL BE ESTABLISHED BY BISECTING THE INTERSECTION RADI WHERE MARKED (SEE NOTE 6). 2. THE WHEELCHAIR RAMP SHALL BE LOCATED SO THAT THE BEGINNING OF THE WHEEL CHAIR RAMP WILL BE TWO FEET FROM THE INSIDE
- PEDESTRIAN CROSSWALK LINE. 3. THE WIDTH OF THE PEDESTRIAN CROSSWALK SHALL BE 10 FEET UNLESS A
- GREATER WIDTH IS REQUIRED TO ACCOMMODATE THE PEDESTRIAN 4. STOP BARS SHALL BE USED WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE REQUIRED TO STOP IN COMPLIANCE WITH A TRAFFIC SIGNAL, STOP SIGN, OR OTHER LEGAL
- REQUIREMENTS 5. PARKING SHALL BE ELIMINATED A MINIMUM OF 20 FEET BACK OF PEDESTRIAN
- 6. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION. THIS IS AVAILABLE FROM THE SUPERINTENDENT OF DOCUMENTS, U.S GOVERNMENT

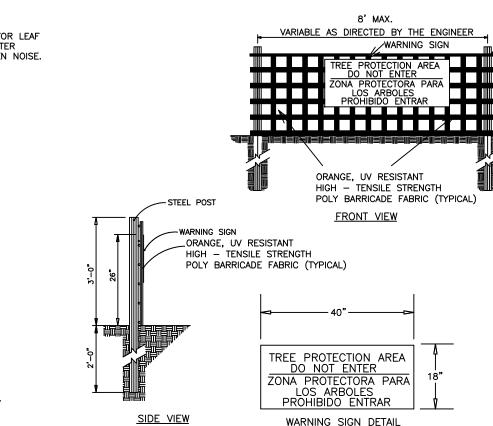
when the property to the north and east develops. Please note this on the site plan.

#### **ADDITIONAL NOTES:**

1. A landscaping plan indicating the location of required street trees shall be submitted to the City of Wilmington Traffic Engineering Division and Parks and Recreation Department for review and approval prior to the recording of the final plat 2. A sign shall be placed at the northern and Eastern boundary of the property indicating that a future connection will be opened

3. Permitting of business identification signage is a separate process. NCDOT/ City of Wilmington will not allow obstructions within the right of way.

#### CITY OF WILMINGTON TREE PROTECTION STD DETAIL: SD 15-09



# TREE PROTECTION AREA LOS ARBOLES PROHIBIDO ENTRAR WARNING SIGN DETAIL BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED

ORANGE, UV RESISTANT HIGH - TENSILE STRENGTH

FRONT VIEW

1. THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.

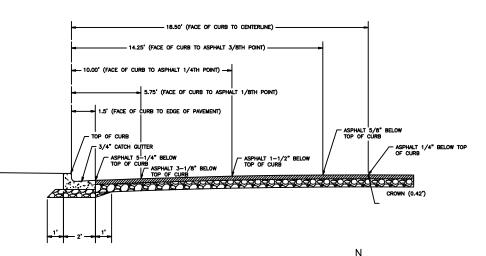
2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO 3. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS

THAN TWO SIGNS PER PROTECTION AREA.

4. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT 5. TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
6. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL

PLASTIC OF

CHIPPENHAM DRIVE & STONE CROP DRIVE TYPICAL SECTION



LOT 5

STORMWATER MANAGEMENT

PLAN

APPROVED

CITY OF WILMINGTON

ENGINEERING DEPARTMENT

SIGNING SCHEDULE

STOP SIGN

PAVEMENT MARKINGS AND SIGNING NOTES

OBJECT MARKER

ALL MARKINGS TO BE THERMOPLASTIC

AND REPLACEMENT OF PAVEMENT MARKINGS

18"X18"

BACKGROUND FOR ALL E SIGNS SHALL BE ON TYPE C REFLECTIVE SHEETING

TANDARDS INCLUDING BUT NOT LIMITED TO CITY OF WILMINGTON,

SIGNING AND PAVEMENT MARKINGS TYPE AND INSTALLATION SHALL FOLLOW ALL APPLICABLE

SEE NCDOT 2018 STANDARD SPECIFICATIONS 1205-1 THROUGH 1205-9 FOR REMOVAL AND

SEE NCDOT STANDARD 2018 STANDARD DRAWINGS 1264.01 - .02 FOR OBJECT MARKER PLACEMENT

SEE NCDOT 2018 STANDARD DRAWING 1205.04 AND MUTCD FOR STOP SIGN AND STOP BAR PLACEMENT (STOP BARS SHALL BE 4' MIN OFFSET FROM CURB RAMPS)

LOT 4

10.13 Ac.

LAND COMPANY LLC

DB 5884 PG. 2941

LOT 6

CHIPPENHAM DRIVE

TEMPORARY CONVEYANCE CHANNEL TO BE FILLED

HIGHER STANDARD SHALL APPLY.

PROJECT FOR CONSTRUCTION.

AS SUBMITTED AND APPROVED

PROPOSED

DRAINTAGE EASEMENT

SRB CONDITIONS

1. THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHALL COMPLY WITH ALL REGULATIONS AND

REQUIREMENTS IMPOSED BY THE LAND DEVELOPMENT CODE, THE CITY OF WILMINGTON TECHNICAL STANDARDS AND

SPECIFICATIONS MANUAL AND ANY OTHER APPLICABLE FEDERAL, STATE OR LOCAL LAW, ORDINANCE OR REGULATION,

AS WELL AS ANY CONDITION STATED BELOW. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT OR

2. APPROVAL OF THIS PRELIMINARY PLAN DOES NOT CONSTITUTE TECHNICAL APPROVAL OF A SITE PLAN. FINAL

APPROVAL BY THE TRC AND THE ISSUANCE OF ALL REQUIRED PERMITS MUST OCCUR PRIOR TO RELEASE OF THE

3. IF, FOR ANY REASON, ANY CONDITION FOR APPROVAL IS FOUND TO BE ILLEGAL OR INVALID OR IF THE APPLICANT

SHOULD FAIL TO ACCEPT ANY CONDITION FOLLOWING APPROVAL, THE APPROVAL OF THE PRELIMINARY PLAN SHALL

4. THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHALL BE IN ACCORDANCE WITH THE PRELIMINARY PLAN

**CAMERON PROPERTIES** 

DATE

PERMIT#\_

Approved Construction Plan

For each open utility cut of

City streets, a \$325 permit

shall be required from the

City prior to occupancy

SIGNING AND MARKING DETAIL

NTS

and/or project acceptance.

WILMINGTON

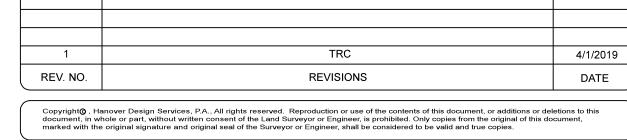
SITE

LIGHT TO TO BE RELOC

2.14 Ac.

6. THE LOCATION OF UTILITIES SHALL COMPLY WITH CITY'S TECHNICAL STANDARDS & SPECIFICATIONS AS DETERMINED TO BE FEASIBLE BY THE TRC.

5. ALL CITY, STATE AND FEDERAL REGULATIONS SHALL BE MET.



GENERAL NOTES AND DETAILS-SRB

STREET AND UTILITY EXTENSIONS NEW HANOVER COUNTY, NORTH CAROLINA CITY OF WILMINGTON

GW CAMERON PROPERTIES LAND COMPANY, LLC GW 1201 GLEN MEADE ROAD PO BOX 3649 Project No: **WILMINGTON, NC 28406** 910-762-2676 5834

HANOVER DESIGN SERVICES, P.A. LAND SURVEYORS, ENGINEERS & LAND PLANNERS WILMINGTON, N.C. 28403



01-03-19

AS SHOWN

# 16. 15 suitable trees per acre are to be preserved or planted in accordance with City of Wilmington standards. 17. Refuse collection by dumpster and private hauler

3. CLEARING AND GRUBBING OF SITE TO INCLUDE REMOVAL OF EXISTING CURB, ASPHALT, INLETS, AND ANY OTHER STRUCTURES INCLUDING TREES,

WATER MAINS

LANDSCAPING INLETS.

UTILITIES WITH APPLICABLE AUTHORITIES.

STUMPS AND DEBRIS EXISTING ON SITE. TREES NOT REQUIRED TO BE CLEARED FOR CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE DIRECTED. 4. MINIMUM SEPARATION SHALL BE MAINTAINED AS FOLLOWS:

ADDITIONAL UTILITY/GRADING NOTES

1. CARE SHALL BE TAKEN DURING FINAL GRADING TO ENSURE POSITIVE

BUILT UPON AREAS (i.e. IMPERVIOUS SURFACES and ROOF DRAINAGE)

OR PONDS) BY SWALES, OVERLAND FLOW, ADDITIONAL GRADING, OR

REALIGNMENTS, DISCONNECTIONS OR CONNECTIONS OF EXISTING

2. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ANY RELOCATIONS,

DRAINAGE TO RECEIVING STRUCTURES. ALL STORM WATER RUNOFF FROM

TO BE DIRECTED TO STORM SEWER COLLECTION SYSTEM (i.e. STORM INLETS

a. HORIZONTAL CLEARANCE OF 10 FEET BETWEEN SANITARY SEWER AND WATER MAINS b. HORIZONTAL CLEARANCE OF 10 FEET BETWEEN STORM SEWER AND

SEWER AND WATER OR WHERE SEWER LINE CROSSES ABOVE WATER MAIN, BOTH PIPES SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING d. WHERE VERTICAL CLEARANCE IS LESS THAN 24" BETWEEN SANITARY SEWER AND STORM DRAIN, SANITARY SEWER SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING.

e. WHERE VERTICAL CLEARANCE IS LESS THAN 18" BETWEEN WATER

MAIN AND STORM DRAIN, WATER MAIN SHALL BE DUCTILE IRON

c. WHERE VERTICAL CLEARANCE IS LESS THAN 18" BETWEEN SANITARY

#### PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING. 4. SEE DETAIL SHEETS FOR TYPICAL UTILITIES HOOKUPS.

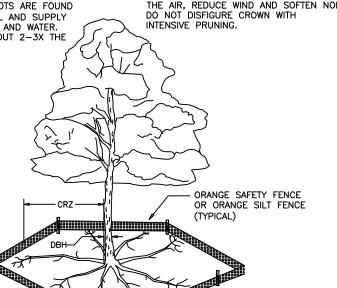
- 5. ALL STREETS ARE PROPOSED TO BE PUBLIC (BUILT TO CITY OF WILMINGTON STANDARDS/ N.C.D.O.T. PAVEMENT AND SUBGRADE STANDARDS).
- 6. ALL SANITARY SEWER MAINS TO BE 8" UNLESS OTHERWISE INDICATED.
- 7. ALL WATER MAINS TO BE 8" UNLESS OTHERWISE INDICATED.
- 8. TWO VALVES ARE REQUIRED AT "T" INTERSECTIONS AND ONE VALVE ON
- THE WATER LINE TO FIRE HYDRANTS. 9. A BLOW-OFF VALVE IS REQUIRED AT THE TERMINUS OF ALL "DEAD END"
- WATER LINES. 10. SANITARY SEWER, STORM, WATER, AND OTHER PERTINENT DETAILS/SPECIFICATIONS TO BE PROVIDED WITH CONSTRUCTION PLANS AND SHALL MEET OR EXCEED CITY

# ADDITIONAL FIRE DEPARTMENT NOTES:

AND CFPUA DESIGN STANDARDS

- HYDRANTS MUST BE WITHIN 150' OF THE FDC THE FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT LANDSCAPING MAY NOT BLOCK ANY FDC OR HYDRANT WITH A 3' CLEAR SPACE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC CONTRACTOR TO MAINTAIN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES DURING CONSTRUCTION HYDRANTS MUST BE LOCATED WITHIN 8' OF THE CURB
- NEW HYDRANTS MUST BE AVAILABLE FOR USE PRIOR TO BUILDING -ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBLITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT

THE CRITICAL ROOT ZONE (CRZ) OF A TREE CROWN OF THE TREE IS NEEDED FOR LEAF IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY. 85% OF MOST TREE ROOTS ARE FOUND GROWTH TO PRODUCE OXYGEN, FILTER
THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING. N THE TOP 24" OF THE SOIL AND SUPPLY THE MAJORITY OF NUTRIENTS AND WATER. GENERALLY, ROOTS SPREAD OUT 2—3X THE



VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. ONTRACTOR SHALL REPAIR DAMAGE TO TREES . FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED HE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR

. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE. . CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH). 3. IF CONSTRUCTION OCCURS WITHIN THE CRZ. AT LEAST 12" OF MULCH AND/O LOGGING MATTS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.

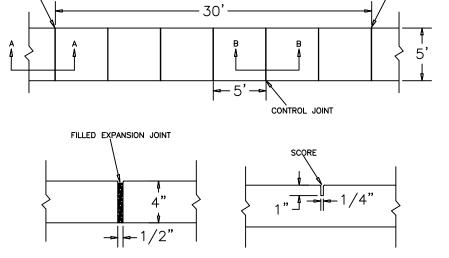
4. WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN

TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.

5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO

3 YRS FOR TREE MITIGATION.

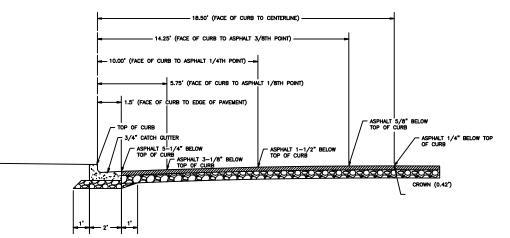
CITY OF WILMINGTON TYPICAL SIDEWALK SD 3-10

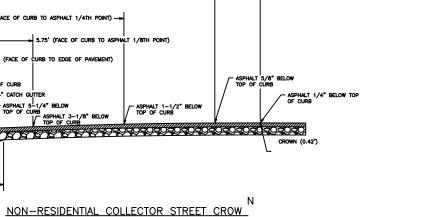


JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.

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

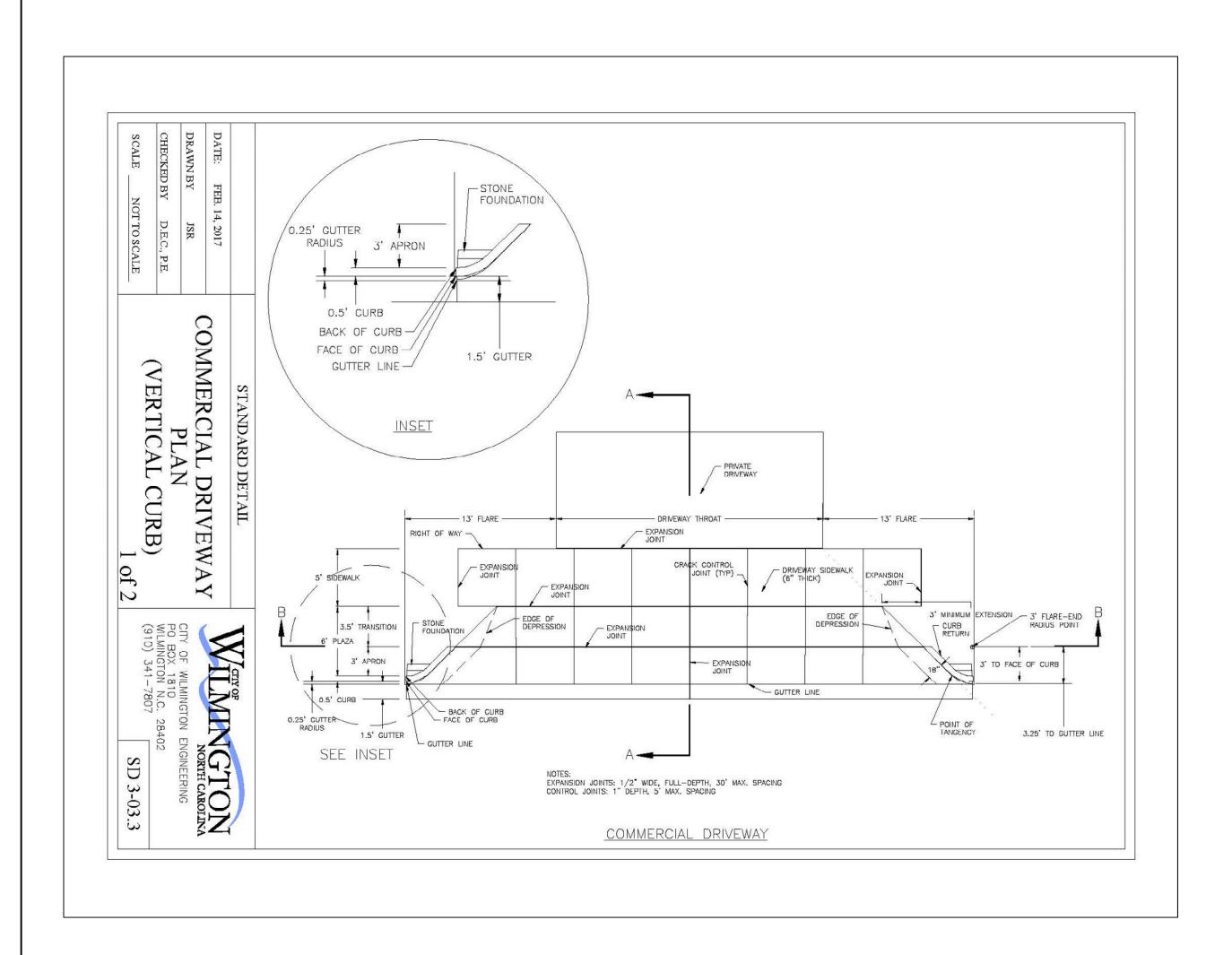
7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12" MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 8.3%, 10% IF LIMITED BY EXISTING CONDITIONS, OR NO GREATER THAN

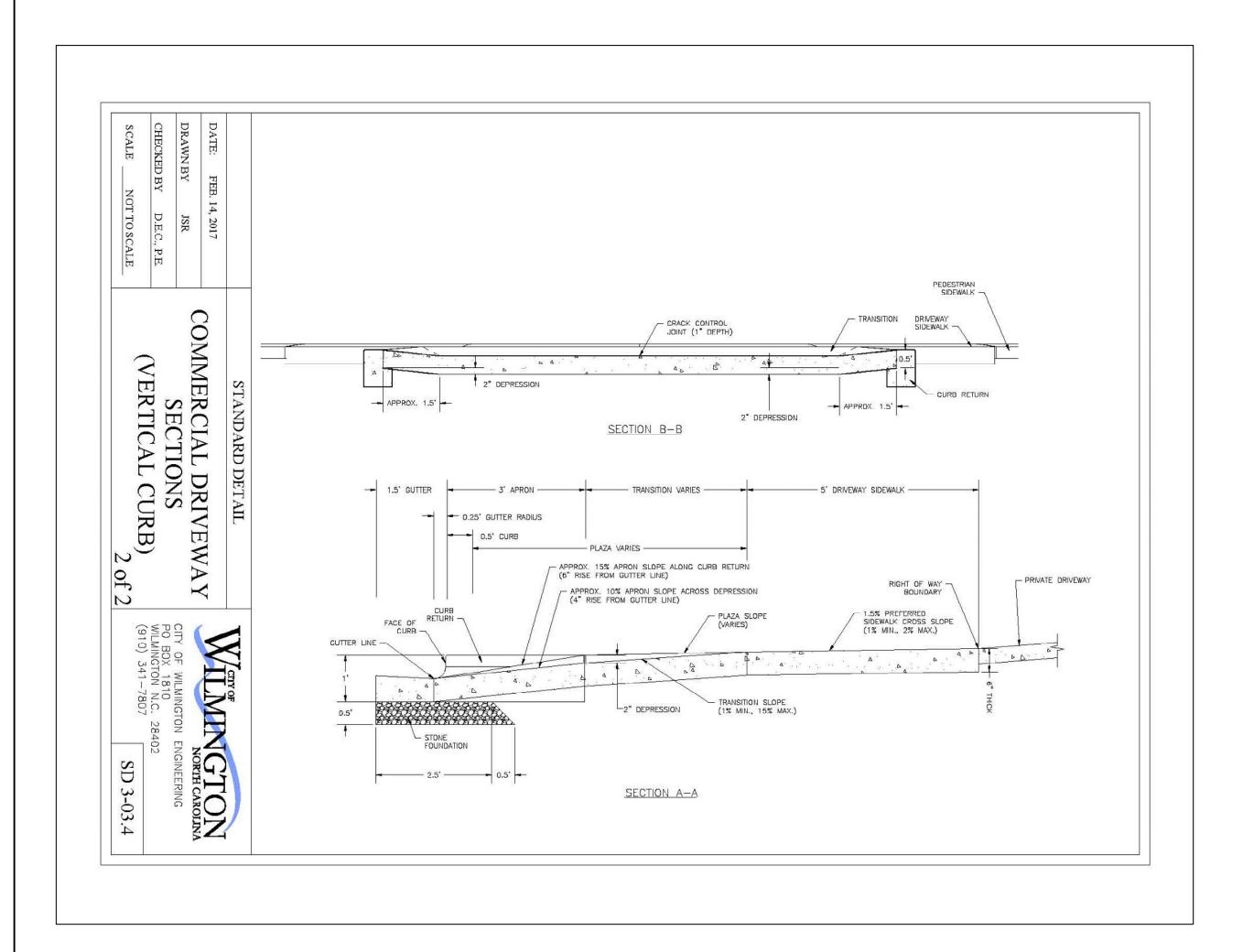


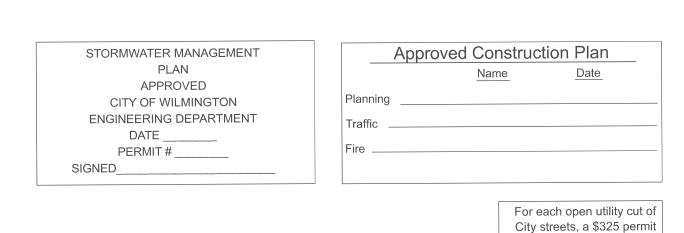


THE POINTE AT BARCLAY

LICENSE # C-0597







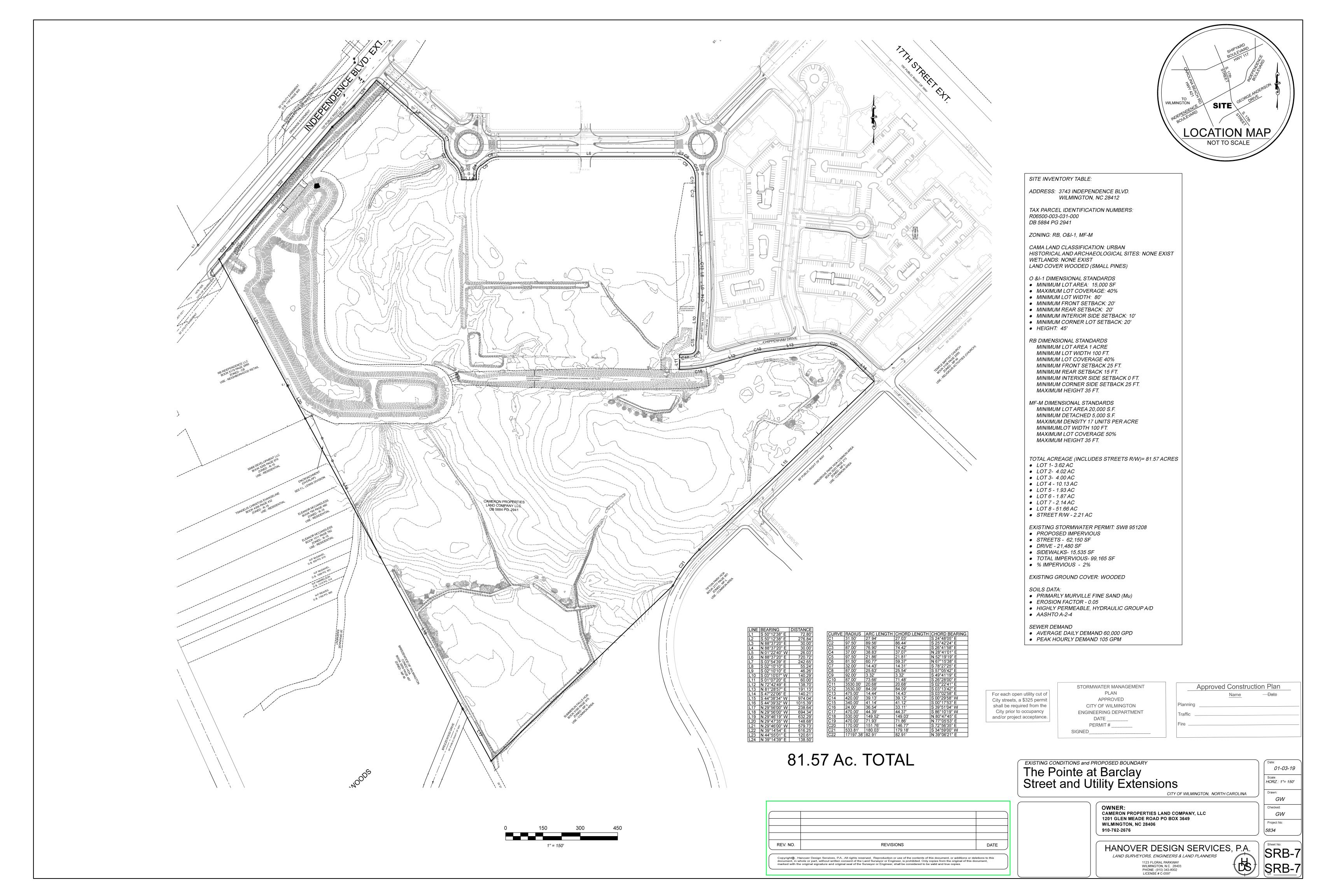
shall be required from the City prior to occupancy and/or project acceptance.

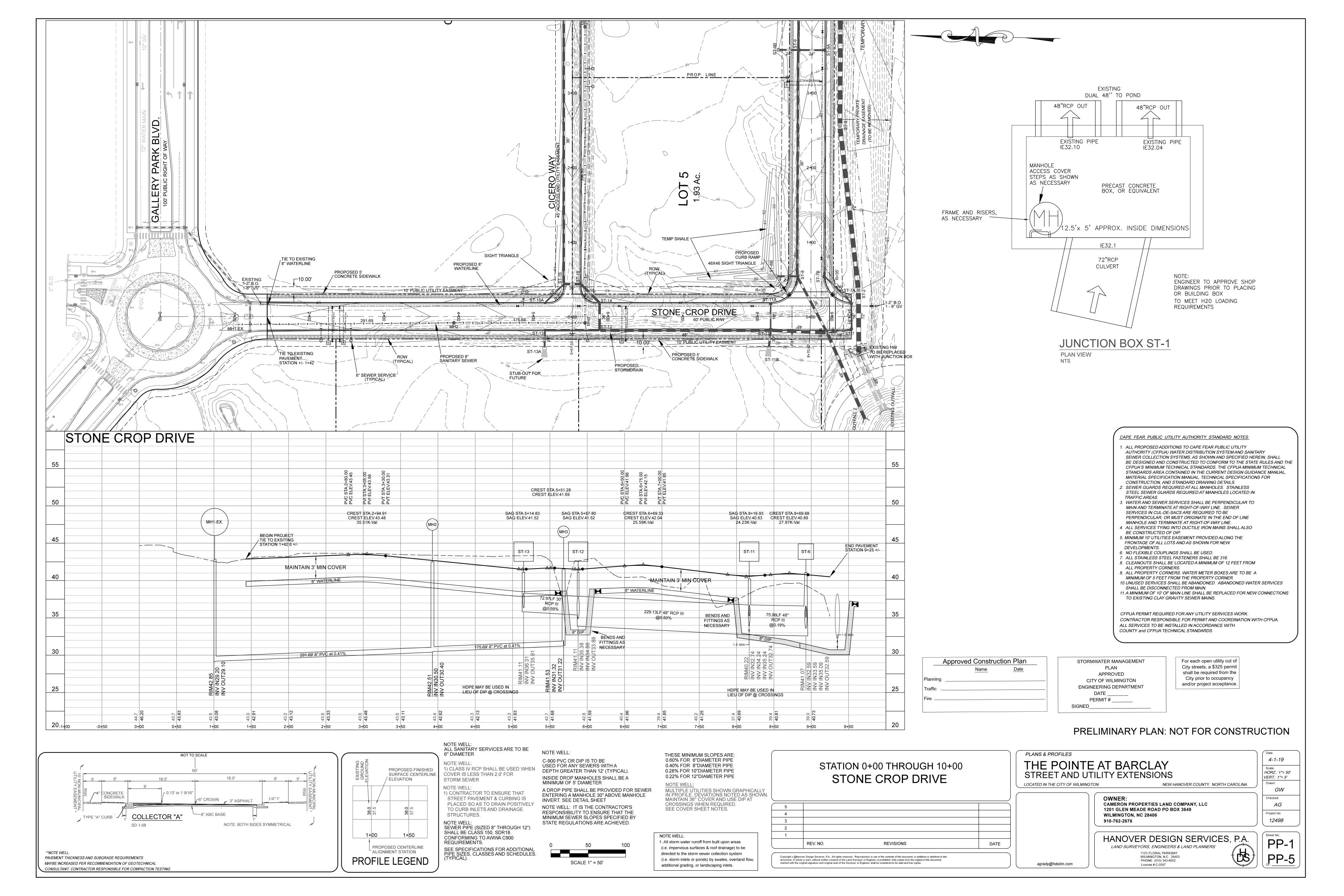
REV. NO. REVISIONS GENERAL NOTES AND DETAILS-SRB THE POINTE AT BARCLAY STREET AND UTILITY EXTENSIONS CITY OF WILMINGTON CAMERON PROPERTIES LAND COMPANY, LLC 1201 GLEN MEADE ROAD PO BOX 3649 WILMINGTON, NC 28406 910-762-2676 HANOVER DESIGN SERVICES, P.A.

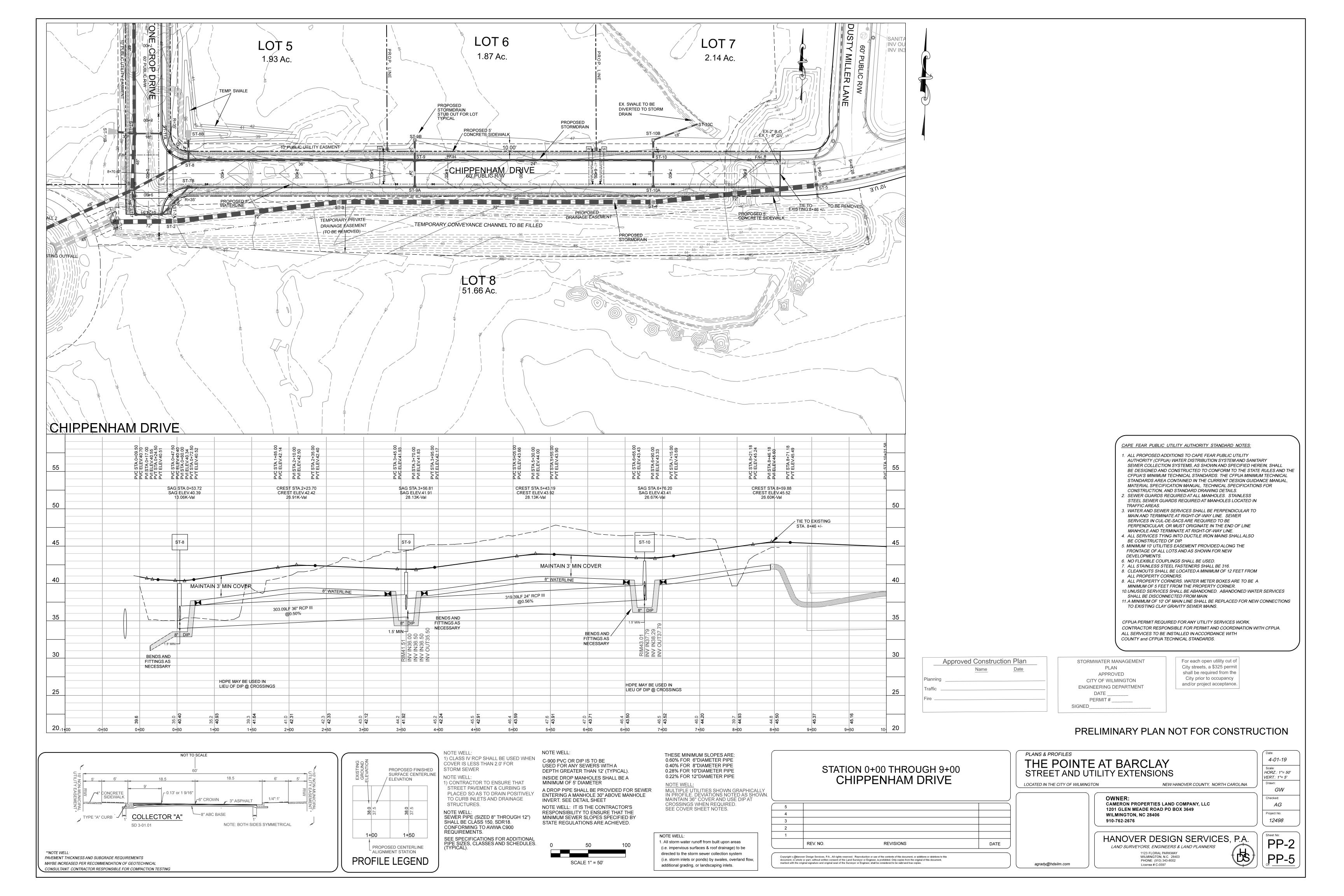
LAND SURVEYORS, ENGINEERS & LAND PLANNERS

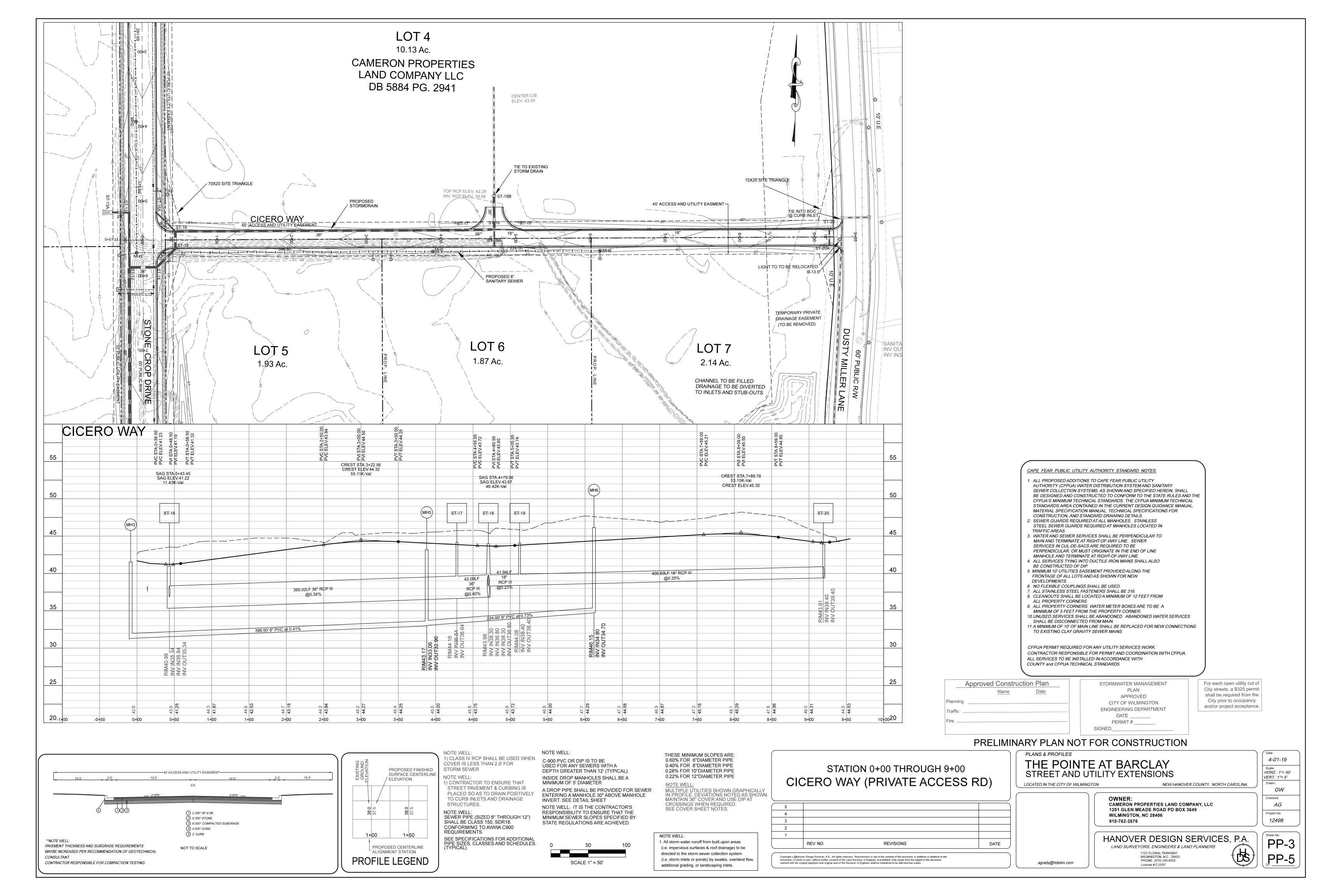
1123 FLORAL PARKWAY
WILMINGTON, N.C. 28403
PHONE: (910) 343-8002
LICENSE # C-0597 1123 FLORAL PARKWAY WILMINGTON, N.C. 28403 PHONE: (910) 343-8002 LICENSE # C-0597

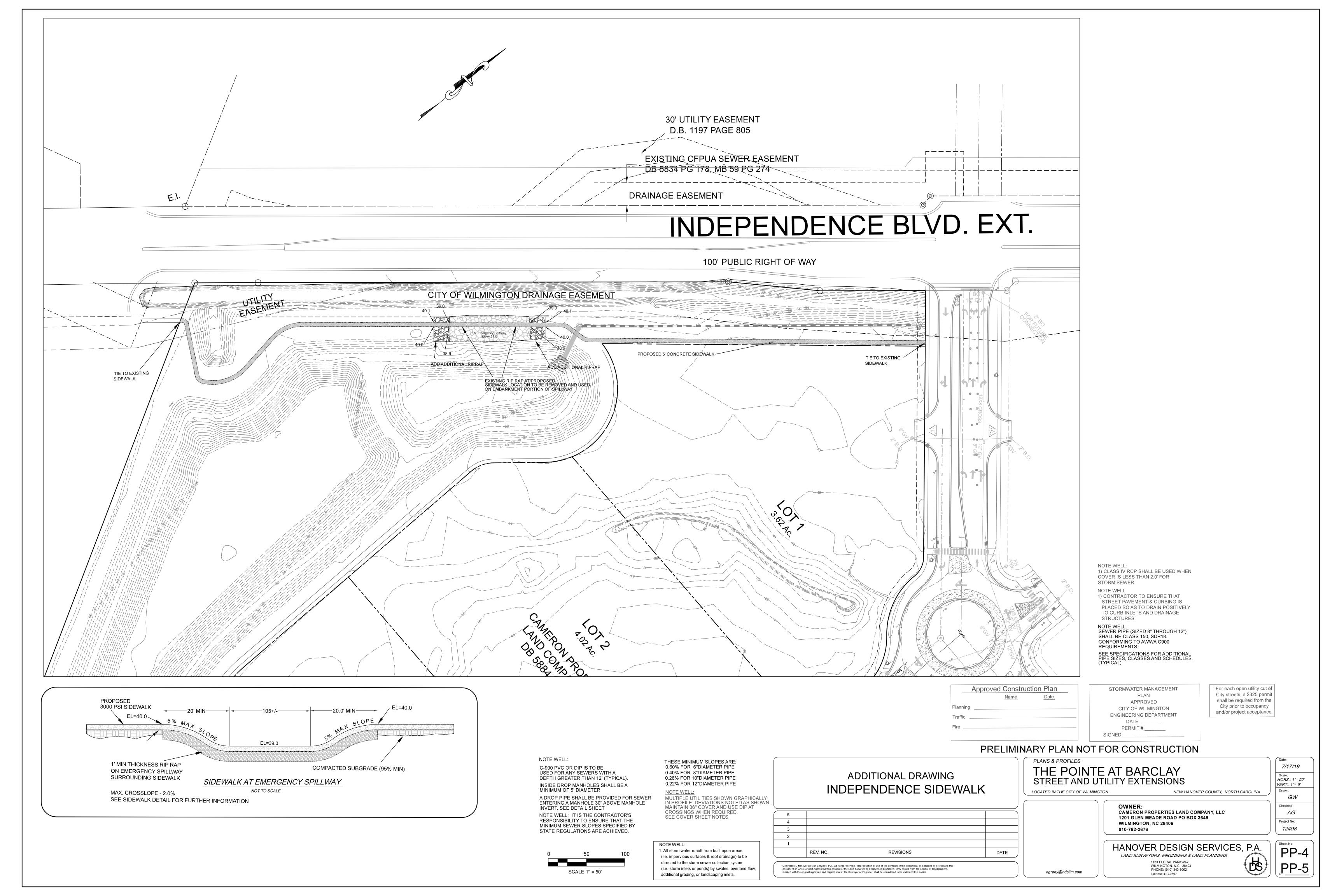




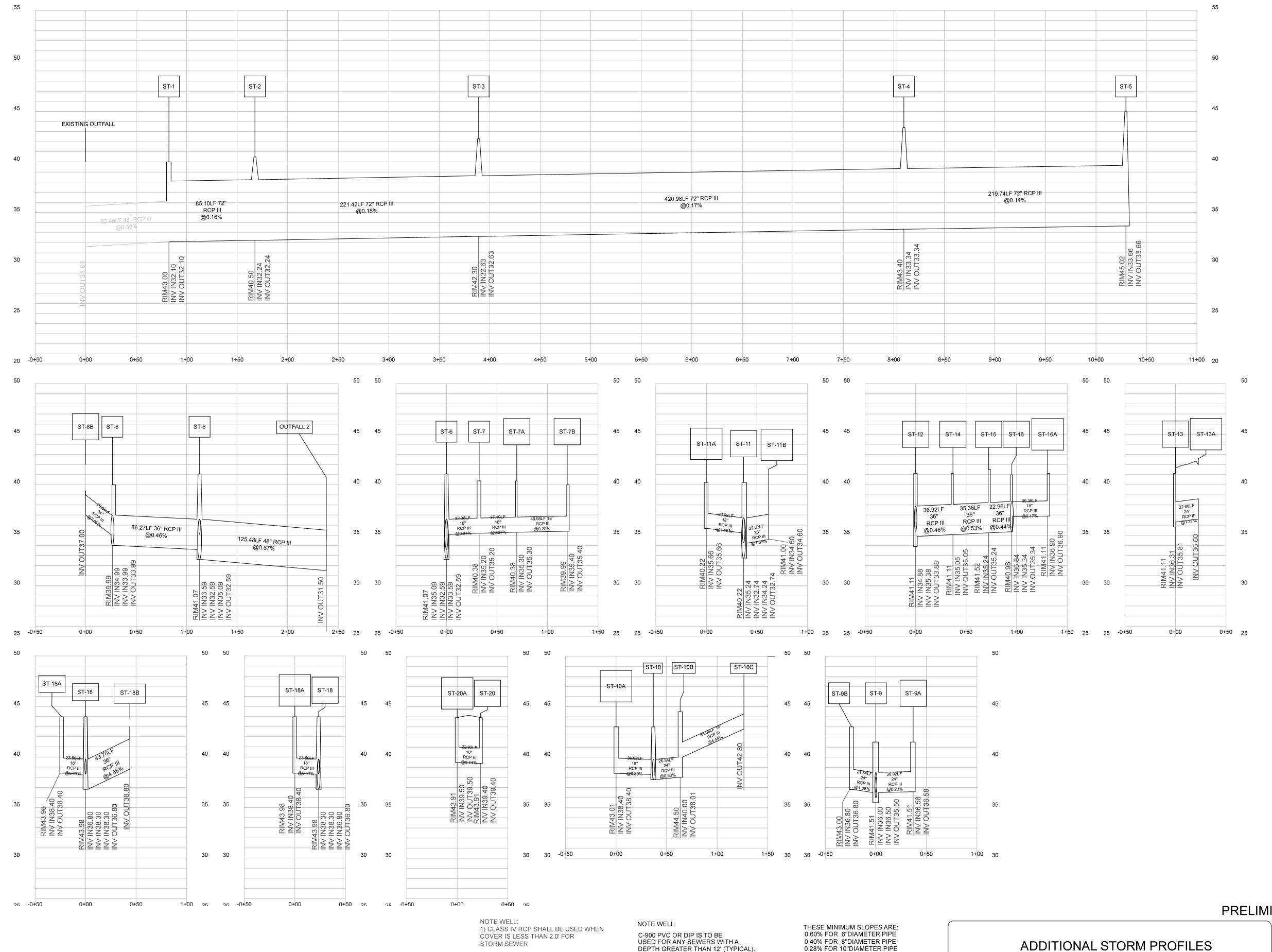








# ADDITIONAL STORM PROFILES



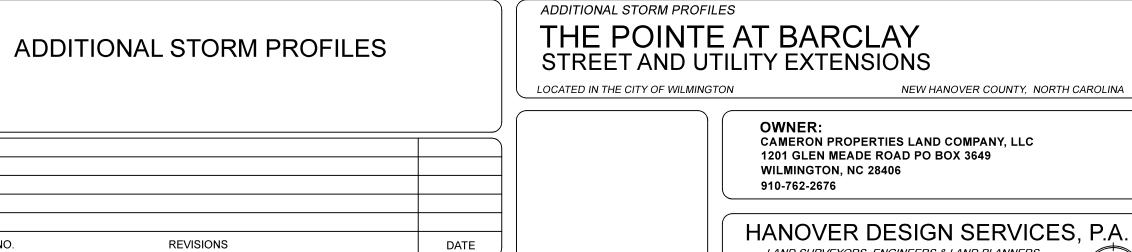
# STORM NETWORK SUMMARY

STORM NETWORK SUMMARY									
DN STRUCTURE	UP STRUCTURE	DOWN INVERT (FT)	UP INVERT (FT)	LENGTH (FT)	SLOPE (%)	SIZE (IN)			
EXISTING OUTFALL	ST-1	31.61	32.10	82.45	0.59	48.0			
ST-1	ST-2	32.10	32.24	85.10	0.16	72.0			
ST-2	ST-3	32.24	32.63	221.42	0.18	72.0			
ST-3	ST-4	32.63	33.34	420.98	0.17	72.0			
ST-4	ST-5	33.34	33.66	219.74	0.14	72.0			
OUTFALL 2	ST-6	31.50	32.59	125.48	0.87	48.0			
ST-6	ST-11	32.59	32.74	75.96	0.19	48.0			
ST-6	ST-8	33.59	33.99	85.88	0.46	36.0			
ST-6	ST-7	35.09	35.20	32.29	0.34	18.0			
ST-11	ST-12	32.74	33.88	229.13	0.50	48.0			
ST-11	ST-11B	34.24	34.60	22.03	1.65	30.0			
ST-11	ST-11A	35.24	35.66	36.92	1.16	18.0			
ST-12	ST-14	34.88	35.05	36.92	0.46	36.0			
ST-12	ST-13	35.38	35.81	72.97	0.59	30.0			
ST-14	ST-15	35.05	35.24	35.36	0.53	36.0			
ST-15	ST-16	35.24	35.34	22.96	0.44	36.0			
ST-16	ST-17	35.34	36.64	385.02	0.34	36.0			
ST-16	ST-16A	36.84	36.90	35.39	0.17	18.0			
ST-17	ST-18	36.64	36.80	42.09	0.40	36.0			
ST-18	ST-19	38.30	38.40	41.91	0.23	18.0			
ST-18	ST-18B	36.80	38.80	43.78	4.56	36.0			
ST-18	ST-18A	38.30	38.40	23.50	0.41	18.0			
ST-19	ST-20	38.40	39.40	406.69	0.25	18.0			
ST-20	ST-20A	39.40	39.50	22.92	0.44	18.0			
ST-13	ST-13A	36.31	36.60	22.65	1.27	24.0			
ST-8	ST-9	33.99	35.50	303.09	0.50	36.0			
ST-8	ST-8B	34.99	37.00	26.54	7.56	24.0			
ST-9	ST-10	36.00	37.79	319.39	0.56	24.0			
ST-9	ST-9B	36.50	36.80	26.54	1.12	24.0			
ST-9	ST-9A	36.50	36.58	36.92	0.20	24.0			
ST-10	ST-10B	37.79	38.01	26.54	0.83	24.0			
ST-10	ST-10A	38.29	38.40	36.92	0.30	18.0			
ST-10B	ST-10C	40.00	42.80	63.08	4.44	18.0			
ST-7	ST-7A	35.20	35.30	37.00	0.27	18.0			
ST-7A	ST-7B	35.30	35.40	49.98	0.20	18.0			

# SANITARY NETWORK SUMMARY

SANITARY NETWORK SUMMARY										
DN STRUCTURE	UP STRUCTURE	DOWN INVERT (FT)	UP INVERT (FT)	LENGTH (FT)	SLOPE (%)	SIZE (IN)				
MH1-EX.	MH2	29.20	30.40	291.69	0.41	8.0				
MH2	MH3	30.50	31.22	175.69	0.41	8.0				
MH3	MH5	31.32	32.96	396.50	0.41	8.0				
MH5	MH6	33.06	34.70	224.00	0.73	8.0				

## PRELIMINARY PLAN NOT FOR CONSTRUCTION



agrady@hdsilm.com

HANOVER DESIGN SERVICES, P.A. LAND SURVEYORS, ENGINEERS & LAND PLANNERS 1123 FLORAL PARKWAY WILMINGTON, N.C. 28403 PHONE: (910) 343-8002 License # C-0597

7/17/19

Scale: HORZ.: 1"= 50' VERT.: 1"= 5'

GW

AG

12498

SCALE 1" = 50'

A DROP PIPE SHALL BE PROVIDED FOR SEWER

ENTERING A MANHOLE 30" ABOVE MANHOLE

INSIDE DROP MANHOLES SHALL BE A

NOTE WELL: IT IS THE CONTRACTOR'S

RESPONSIBILITY TO ENSURE THAT THE MINIMUM SEWER SLOPES SPECIFIED BY

STATE REGULATIONS ARE ACHIEVED.

MINIMUM OF 5' DIAMETER

INVERT. SEE DETAIL SHEET

NOTE WELL:

STRUCTURES.

For each open utility cut of

City streets, a \$325 permit

shall be required from the

City prior to occupancy

and/or project acceptance.

Approved Construction Plan

STORMWATER MANAGEMENT

PLAN

APPROVED

CITY OF WILMINGTON

ENGINEERING DEPARTMENT

DATE \_\_\_\_\_ PERMIT#\_\_\_\_\_ 1) CONTRACTOR TO ENSURE THAT

STREET PAVEMENT & CURBING IS

TO CURB INLETS AND DRAINAGE

PLACED SO AS TO DRAIN POSITIVELY

SEWER PIPE (SIZED 8" THROUGH 12")

SEE SPECIFICATIONS FOR ADDITIONAL PIPE SIZES, CLASSES AND SCHEDULES. (TYPICAL).

SHALL BE CLASS 150, SDR18.

CONFORMING TO AWWA C900

0.28% FOR 10"DIAMETER PIPE 0.22% FOR 12"DIAMETER PIPE MULTIPLE UTILITIES SHOWN GRAPHICALLY IN PROFILE. DEVIATIONS NOTED AS SHOWN. MAINTAIN 36" COVER AND USE DIP AT CROSSINGS WHEN REQUIRED. SEE COVER SHEET NOTES.

NOTE WELL:

1. All storm water runoff from built upon areas (i.e. impervious surfaces & roof drainage) to be directed to the storm sewer collection system (i.e. storm inlets or ponds) by swales, overland flow, additional grading, or landscaping inlets.

Copyright c Ontain Design Services, P.A., All rights reserved. Reproduction or use of the contents of this document, or additions or deletions to this document, in whole or part, without written consent of the Land Surveyor or Engineer, is prohibited. Only copies from the original of this document, document, in whole or part, without written consent of the Land Surveyor or Engineer, is prohibited. Only copies from the original of this document, marked with the original signature and original seal of the Surveyor or Engineer, shall be considered to be valid and true copies.

