# PROPOSED NORTH TRYON CIRCLE K DEVELOPMENT

CIRCLE K STORES, INC.

CHARLOTTE, NORTH CAROLINA

REVISION APPROVED FOR

CONSTRUCTION

BY: Joshua Weaver 1-27-2016

#### PROJECT INFORMATION

PROJECT NORTH TRYON CIRCLE K
PROJECT LOCATION CHARLOTTE

PARCEL TAX NUMBERS 049-141-70 (FORMALLY PORTION OF 049-141-20)

LOT ACREAGE

PARCEL ZONING

PETITION NUMBER

PROPOSED PARCEL USE

WATERSHED OVERLAY DISTRICT

COMMERCIAL

NONE

14 400 SE

BUILDING 4,400 SF

EXISTING IMPERVIOUS AREA 0 ACRES

PROPOSED IMPERVIOUS AREA 1.47 ACRES

CD NOTES

BUFFER 25 FT
BUILDING SETBACK FRONT 40'
SIDE 20'
REAR 40'

MUNICIPALITY CITY OF CHARLOTTE

PLANNING CITY OF CHARLOTTE (SOLOMON FORTUNE)

PHONE (704) 336-3782

EMAIL SFORTUNE@CI.CHARLOTTE.NC.US

ENGINEERING CITY OF CHARLOTTE (MARK CHAPMAN)

PHONE (704) 432-0409

EMAIL MCHAPMAN@CHARLOTTENC.GOV

CHARLOTTE DEPARTMENT OF TRANSPORTATION (CDOT)

CONTACT RICK H. GROCHOSKE, PE

PHONE 704-432-1556

EMAIL RGROCHOSKE@CI.CHARLOTTE.NC.US

#### NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT)

CONTACT BRITNEE L. ADAMS

PHONE (980) 523-0000

EMAIL BLADAMS1@NCDOT.GOV

W/S PERMITTING PHONE

\_ . . . . \_ \_ \_ . . . . .

**EMAIL** 

DUKE POWER

CONTACT CHAD HAGER
PHONE 704-582-8064

EMAIL CHAD.HAGER@DUKE-ENERGY.COM

#### UTILITY SYSTEMS

WATER SYSTEM PROVIDER CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT (CMUD)

CITY OF CHARLOTTE

SEWER SYSTEM PROVIDER CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT (CMUD)

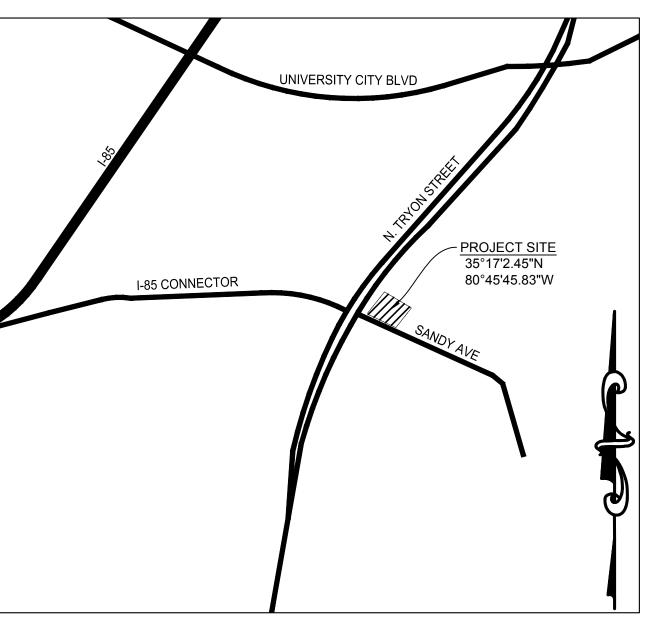
ELECTRICAL PROVIDER DUKE POWER

GAS PROVIDER PIEDMONT NATURAL GAS









VICINITY MAP

# OWNER/DEVELOPER

#### CIRCLE K STORES INC

2440 WHITEHALL PARK DRIVE, SUITE 800 CHARLOTTE, NC 28273 (262) 442-8702 CONTACT: EVAN WALTON

## **ENGINEER**

#### **BOWMAN CONSULTING GROUP**

210 SEVEN FARMS DRIVE, SUITE SUITE 101 CHARLESTON, SC 29492 (843) 501-0336 CONTACT: CAMERON BAKER, PE





#### FINAL APPROVAL

http://development.charmeck.org

# ENGINEERING PCO / DETENTION / DRAINAGE PLAN

EROSION CONTROL

NOTE: SCHEDULE PRE-CONSTRUCTION MEETIN
AT LEAST 48 HRS. PRIOR TO ANY LAND
DISTURBING ACTIVITY USING THE ONLINE

FORM AT http://development.charmeck.org

URBAN FORESTRY

APPROVED with comments

By Laurie Reid Dukes at 2:32 pm, Jan 15, 2016

By mchapman at 1:16 pm, Dec 28, 2015

CDOT

APPROVED

By Rick Grochoske at 1:32 pm, Jan 15, 2016

**APPROVED** 

NOTE: THIS PLAN APPROVAL DOES NOT INCLUDE COMMERCIAL ZONING. ALL BUILDING PERMITS AND ZONING APPROVALS CAN BE OBTAINED AT MECKLENBURG COUNTY CODE ENFORCEMENT. PLEASE CALL CTAC AT 704-336-3829 FOR MORE INFORMATION

### SHEET INDEX

SHEET INDEX				
SHEET NO.	SHEET TITLE			
C100	COVER			
C101	GENERAL NOTES			
C200	EXISTING CONDITIONS PLAN			
C201	DEMOLITION PLAN			
C300	SUBDIVISION PLAN			
C400	EROSION AND SEDIMENT CONTROL PLAN - PHASE 1			
C401	EROSION AND SEDIMENT CONTROL PLAN - PHASE 2			
C500	SITE DEVELOPMENT PLAN			
C501	NORTH TRYON STREET TRAFFIC CONTROL PLAN			
C502	SANDY AVENUE TRAFFIC CONTROL PLAN			
C503	ACCESS ROAD PROFILE			
C504	INTERSECTION SIGHT DISTANCE PLAN			
C505	VEHICLE ACCESS PLAN			
C600	UTILITY PLAN			
C601	SANITARY SEWER PROFILE			
C700	GRADING AND DRAINAGE PLAN			
C701	STORM DRAINAGE PROFILES			
C800	SITE DETAILS (1 OF 3)			
C801	SITE DETAILS (2 OF 3)			
C802	SITE DETAILS (3 OF 3)			
C803	WATER DETAILS			
C804	SANITARY SEWER DETAILS			
C805	STORM DRAINAGE DETAILS (1 OF 3)			
C806	STORM DRAINAGE DETAILS (2 OF 3)			
C807	STORM DRAINAGE DETAILS (3 OF 3)			
C809	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS			
C810	EROSION AND SEDIMENT CONTROL DETAILS			
C900	LANDSCAPING PLAN			
C901	LANDSCAPING DETAILS			

#### **REVISION HISTORY**

1	CHARLOTTE, NC LAND DEVELOPMENT SUBMITTAL	1/23/2015
2	REVISED PER COMMENTS RECEIVED 3/11/2015	4/29/2015
3	REVISED PER MCKINNEY/CHARLOTTE, NCDOT COMMENTS	6/17/2015
4	REVISED PER MCKINNEY/MERRICK COMMENTS	8/19/2015
5	REVISED PER CHARLOTTE, NC LAND DEVELOPMENT	8/21/2015
	COMMENTS RECEIVED	
6	REVISED PER CHARLOTTE, NC LAND DEVELOPMENT	9/17/2015
	COMMENTS RECEIVED	
7	REVISED PER MECKLENBURG COUNTY COMMENTS RECEIVED	10/12/2015
8	REVISED WATER METER LOCATION PER CHARLOTTE WATER	11/02/2015
9	REVISIONS AFTER APPROVAL SET	12/10/2015
NO.	DESCRIPTION	DATE

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Charleston, SC 29492
Phone: (843) 501-0333
bowmanconsulting.com
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RES, INC.

H TRYON STR

CIRCLE K STORES

LOCATED IN CHARLOTTE, NO
19-141-70 (FORMALLY PORTIO

SEAL 19030

PLAN STATUS

XX/XX/XX XXXXX

DATE DESCRIPTION

CB YY JAB

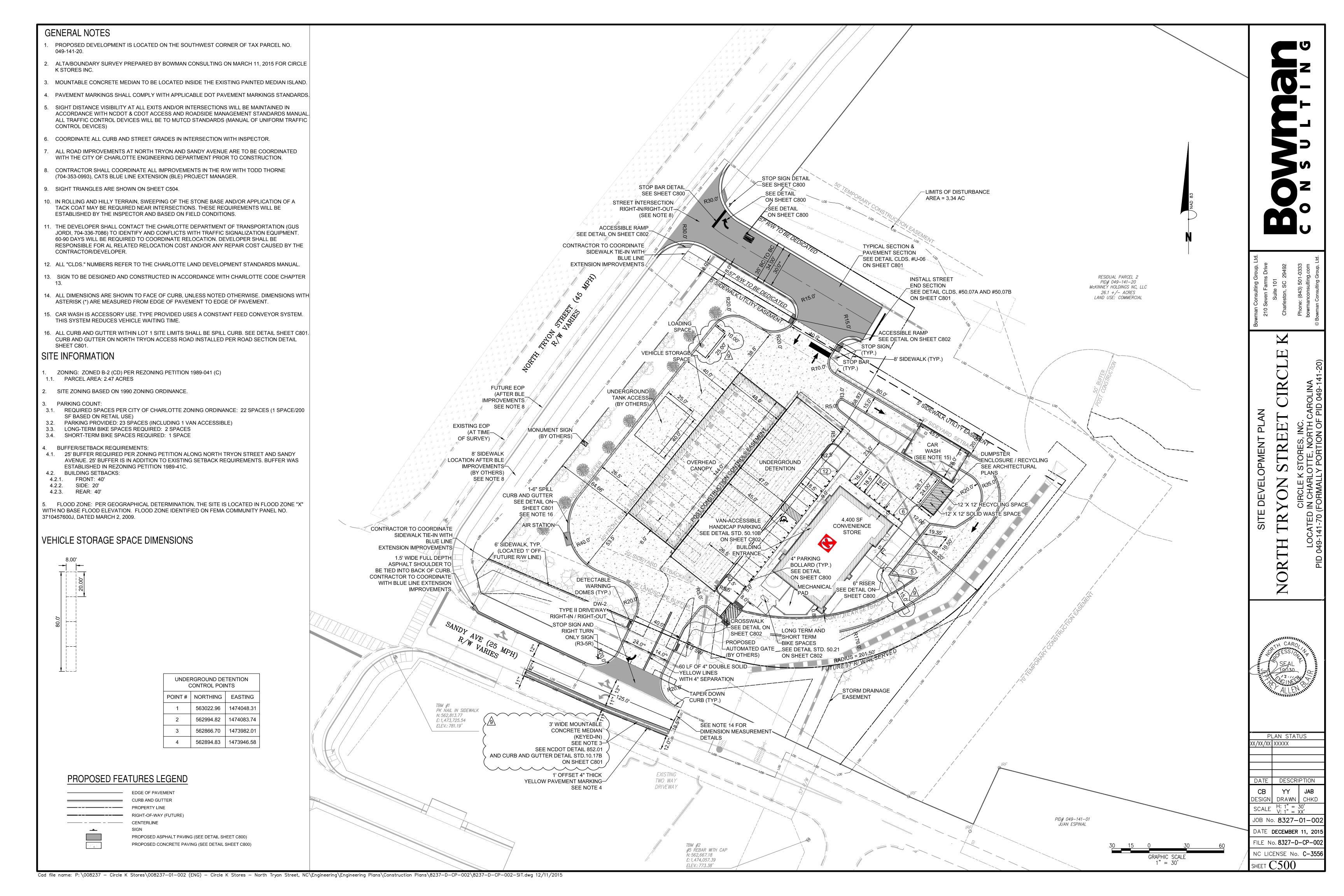
DESIGN DRAWN CHKD

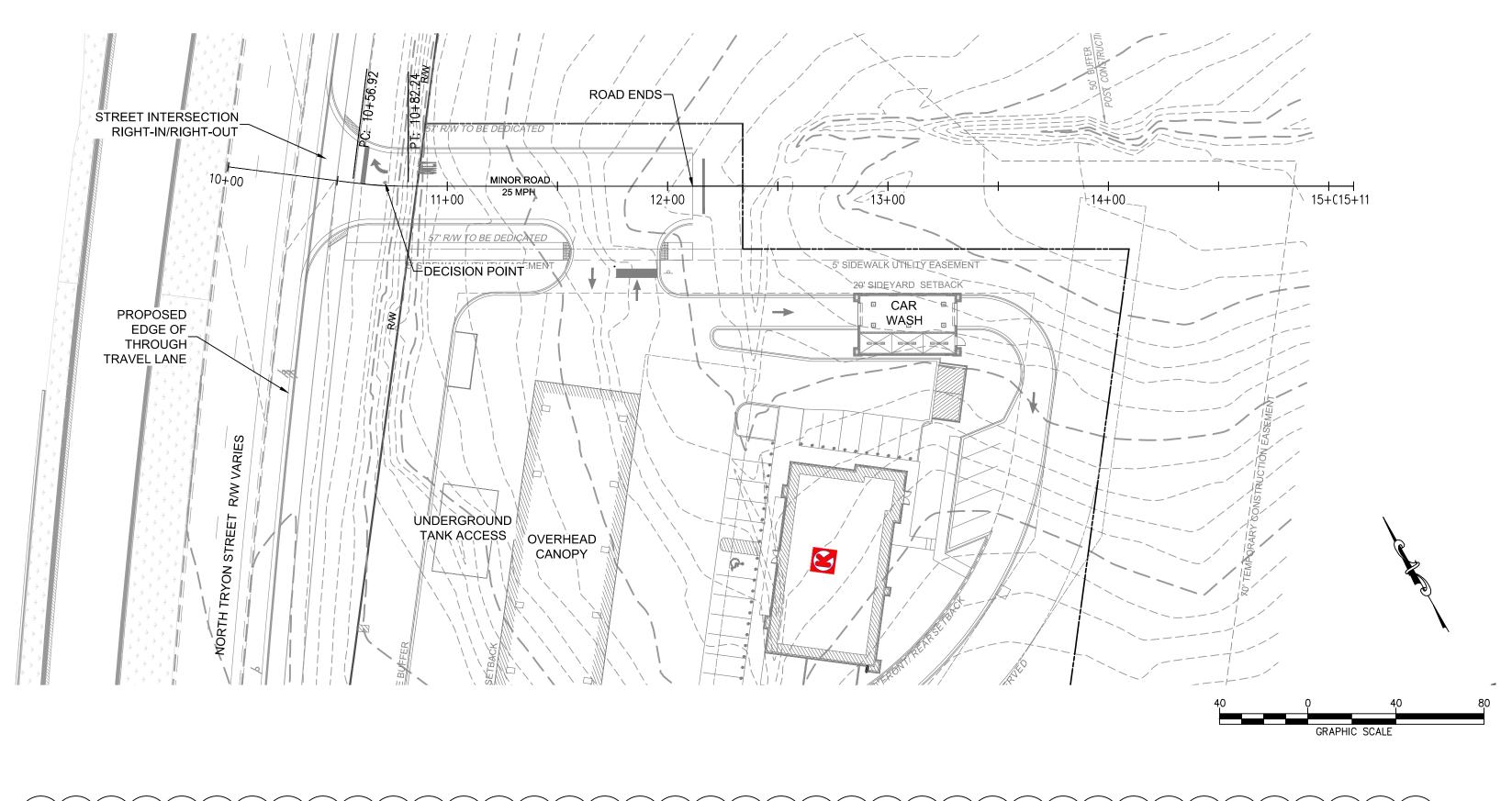
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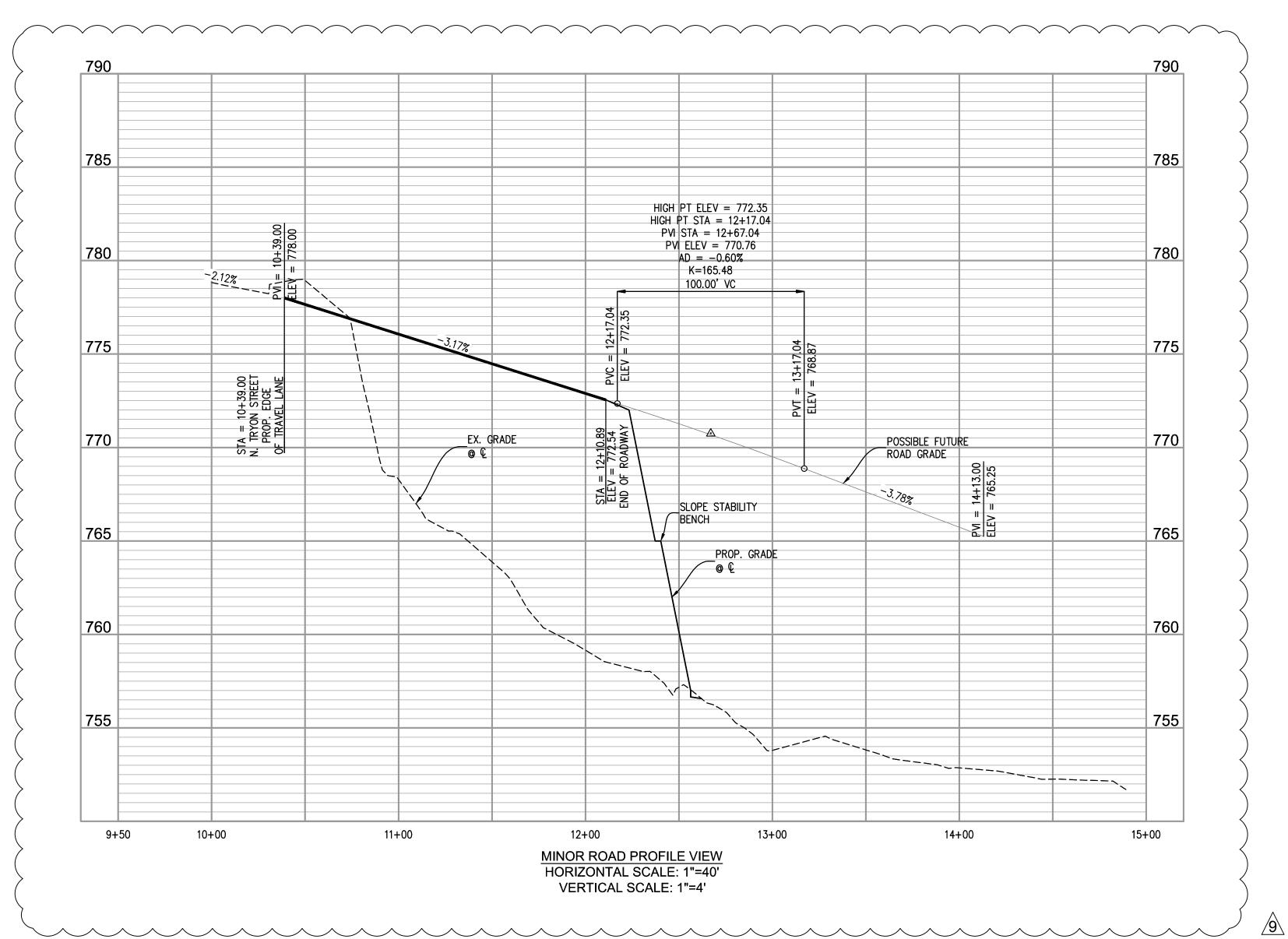
DATE DECEMBER 11, 2015

FILE No. 8327-D-CP-002

NC LICENSE No. C-3556





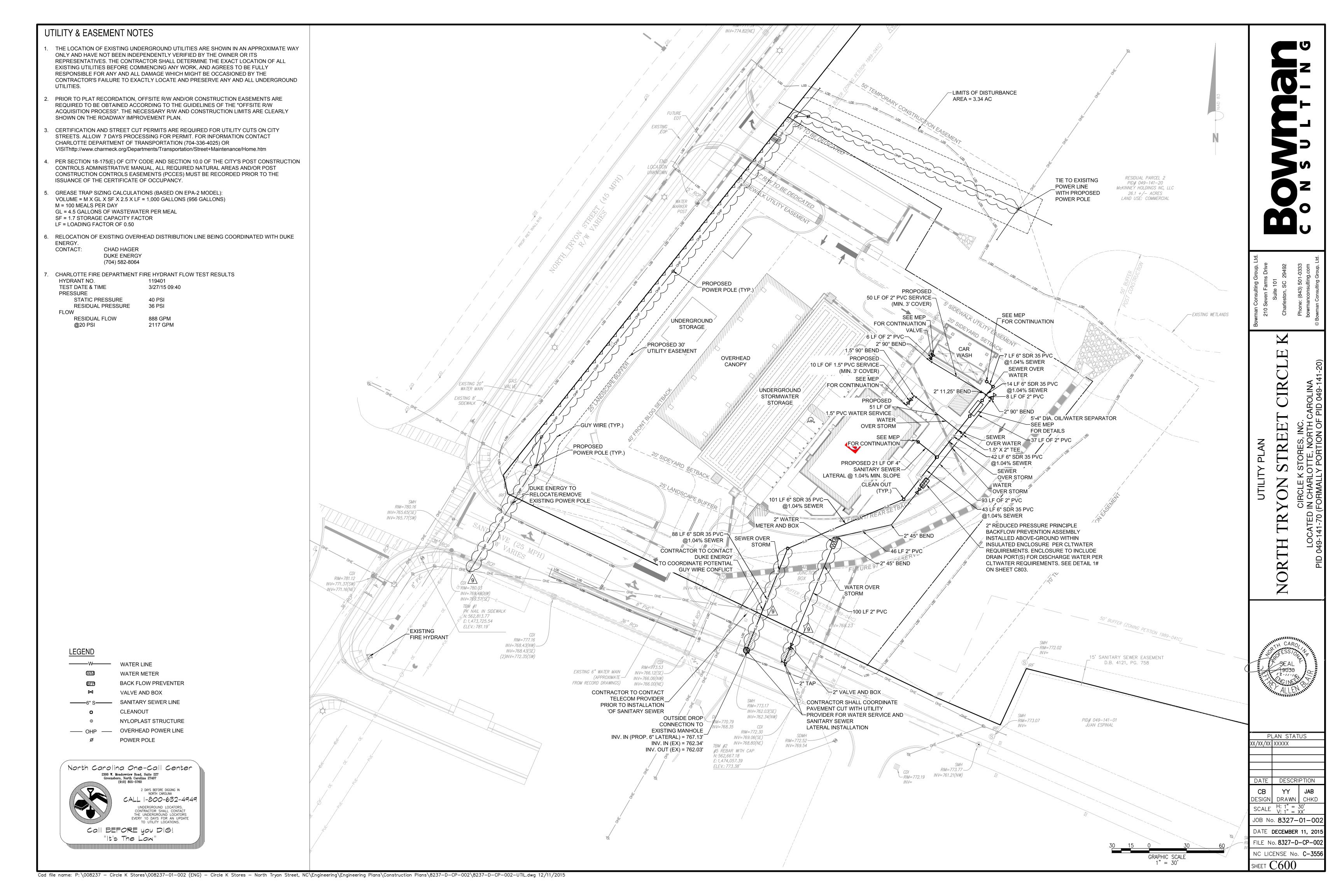


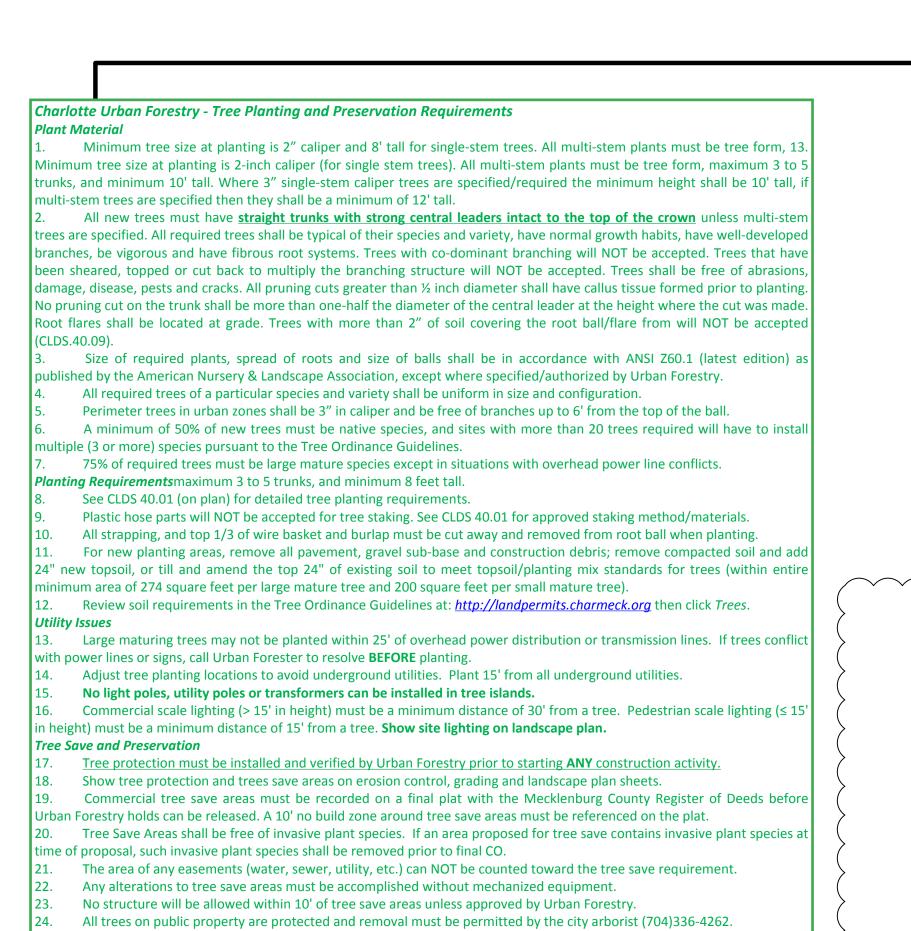
ACCESS ROAD PROFILE

PLAN STATUS XX/XX/XX XXXXX DATE DESCRIPTION YY JAB DESIGN DRAWN CHKD JOB No. 8327-01-002 DATE DECEMBER 11, 201 FILE No. 8327-D-CP-002

NC LICENSE No. C-3556 SHEET C503

Cad file name: P:\008237 - Circle K Stores\008237-01-002 (ENG) - Circle K Stores - North Tryon Street, NC\Engineering\Engineering\Engineering Plans\Construction Plans\8237-D-CP-002\8237-D-CP-002-ISD.dwg 12/11/2015





#### Planting Area Requirements and Recommendations (Continued)

Call (704) 336-4258 for an inspection of tree protection/planting areas, a minimum of 5 days before a CO is needed.

Visit City of Charlotte's Land Development website for additional information and urban forestry requirements: http://

#### **Topsoil/Planting Mix—Minimum Requirements:**

Where pavement cutouts on renovated sites are required and/or where new planting strips or islands are required, all pavement, construction debris and gravel sub-base must be removed before preparing soil and planting trees. Existing compacted soil must be removed and replaced with 24" of topsoil/planting mix -OR-existing soil may be uncompacted to a depth of 24" and amended to meet topsoil standards for the entire planting area.

Soil in all planting strips or islands, whether existing or new (on new or renovated sites), must meet the minimum topsoil/planting mix specifications. Soil amendments or fresh topsoil/planting mix are often needed for planting areas at sites where original topsoil is of poor quality, heavily compacted or where topsoil has been completely removed during grading.

<u>Topsoil/planting mix</u> should be natural, fertile, agricultural soil capable of sustaining vigorous plant growth. It should be uniform composition throughout, with admixture of subsoil. It should be free of stones, lumps, live plants and their roots, sticks and other extraneous matter. Topsoil should not be used while in a frozen or muddy condition.

Topsoil/planting mix shall have an acidity range of pH 5.5-7.0 and the following composition:

Clay (red clay, well pulverized)

Compost\*/organic

Silt

Minimum 10%; maximum 35%

Minimum 5%; maximum 10%

Minimum 30%; maximum 50%

\* Organic material such as sawdust or leaf mold that has completed the decomposition process

Coarse sand (free of rocks, 0.5 to 1.0 mm f)

#### **Recommendations:**

andpermits.charmeck.org then click Trees.

All planting areas should be tested for proper drainage. Drainage should be corrected as necessary to insure proper tree growth and survival. The following level of nutrient elements is recommended for proper growth:

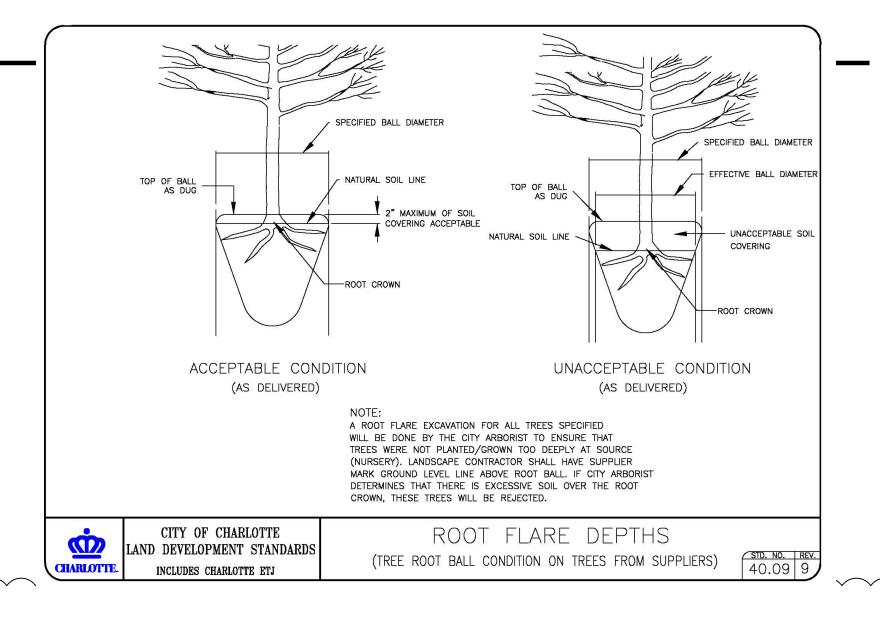
Minimum 30%; maximum 45%

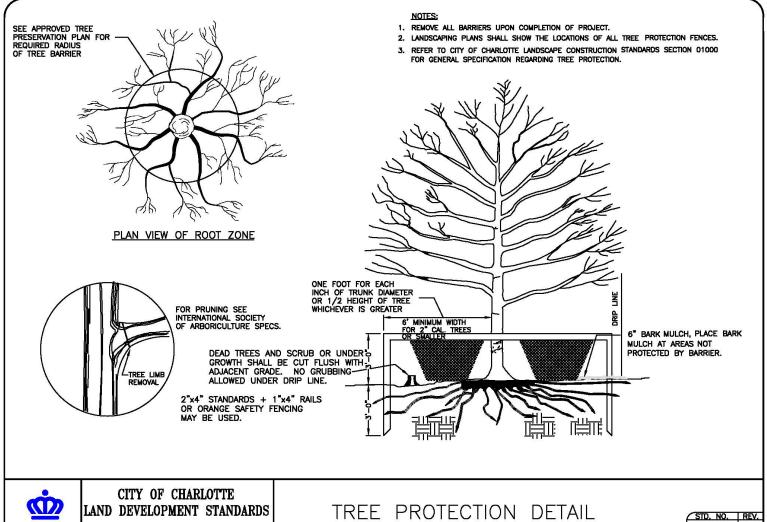
 Calcium
 55 - 80%

 Magnesium
 10 - 30%

 Potassium
 5 - 8%







INCLUDES CHARLOTTE ETJ

PROP. GRADE 42 LF - 6" SDR-35 SAN SEWER @ 1.04% –14 LF - 6" SDR-35 SAN SEWER @ 1.04% EX. GRADE 43 LF - 6" SDR-35 SAN SEWER @ 1.04% ~7 LF - 6" SDR-35 SAN SEWER @ 1.04% 765 765 760 5'-4" DIA. OIL/WATER -SEPARATOR SEE MEP FOR DETAILS 9+50 10+00 11+00 13+00 14+00 12+00 SANITARY SEWER LATERAL PROFILE VIEW HORIZONTAL SCALE: 1"=30'

VERTICAL SCALE: 1"=3"

29492 01-0333 ing.com g Group, Ltd.

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REET CIRCLE
ES, INC.
NORTH CAROLINA

KYOIN SIKEEL

CIRCLE K STORES, INC.
TED IN CHARLOTTE, NORTH CA

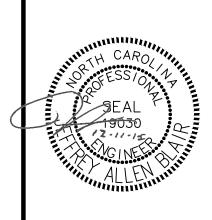
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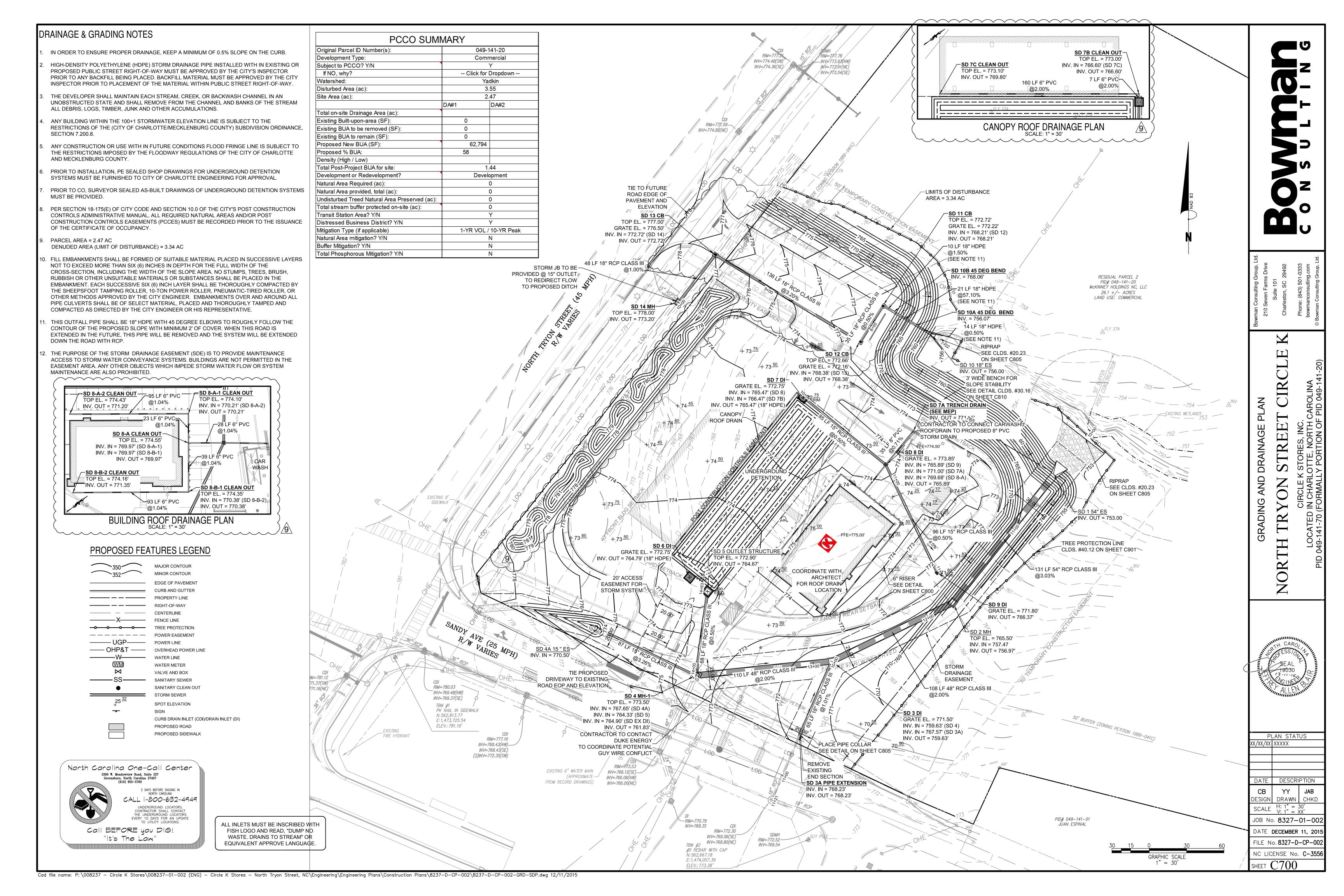
NORTH TRYON

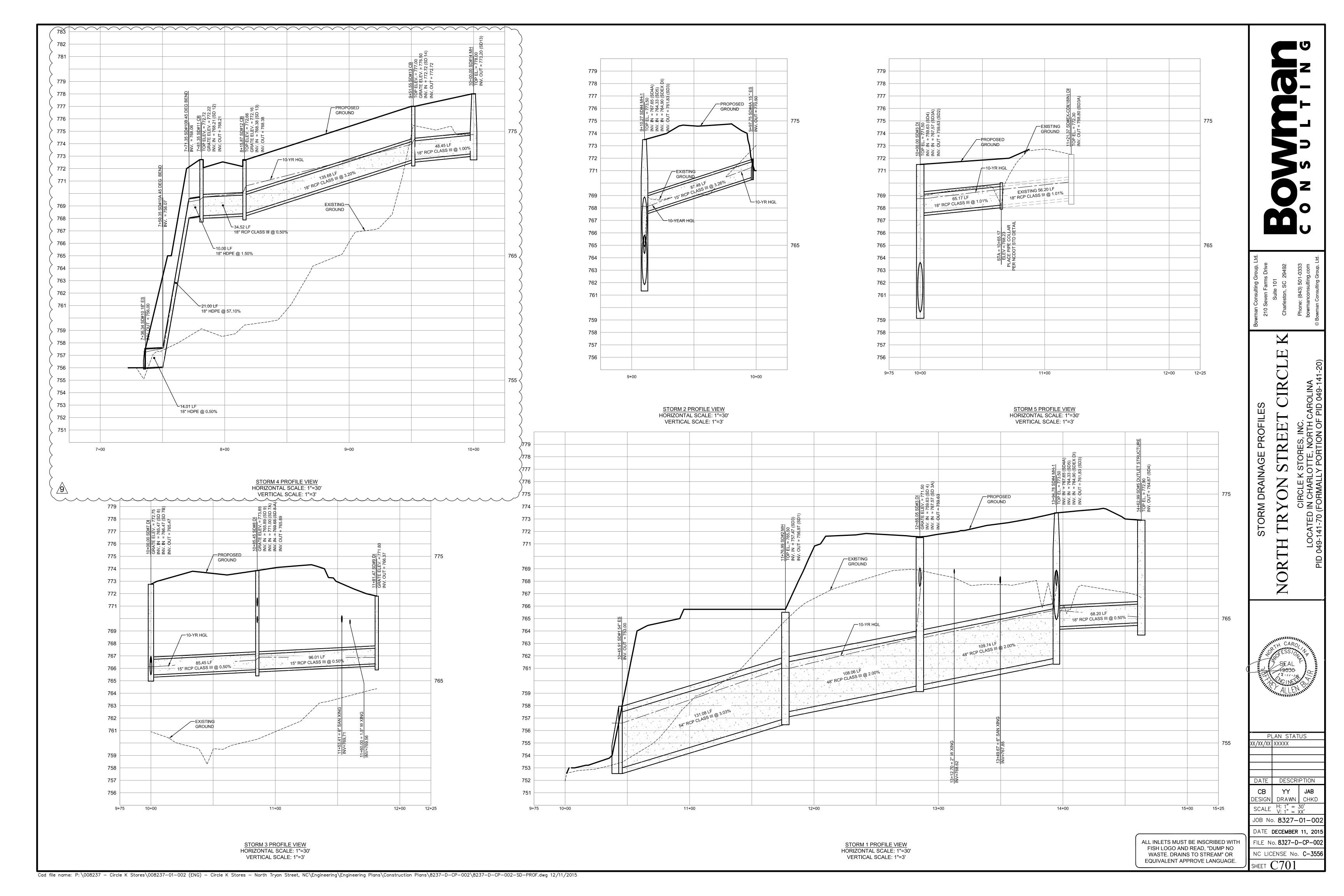
CIRCLE

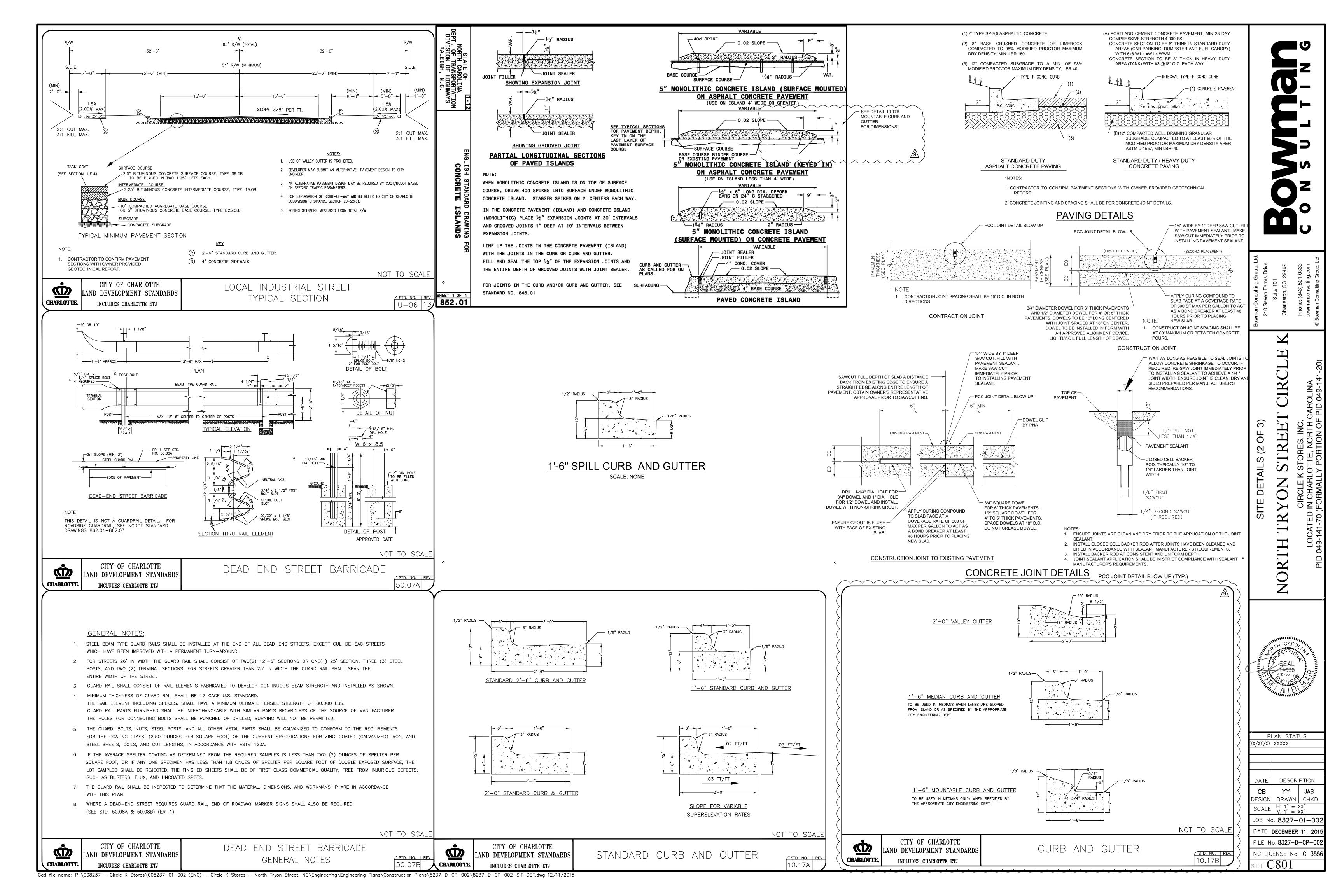
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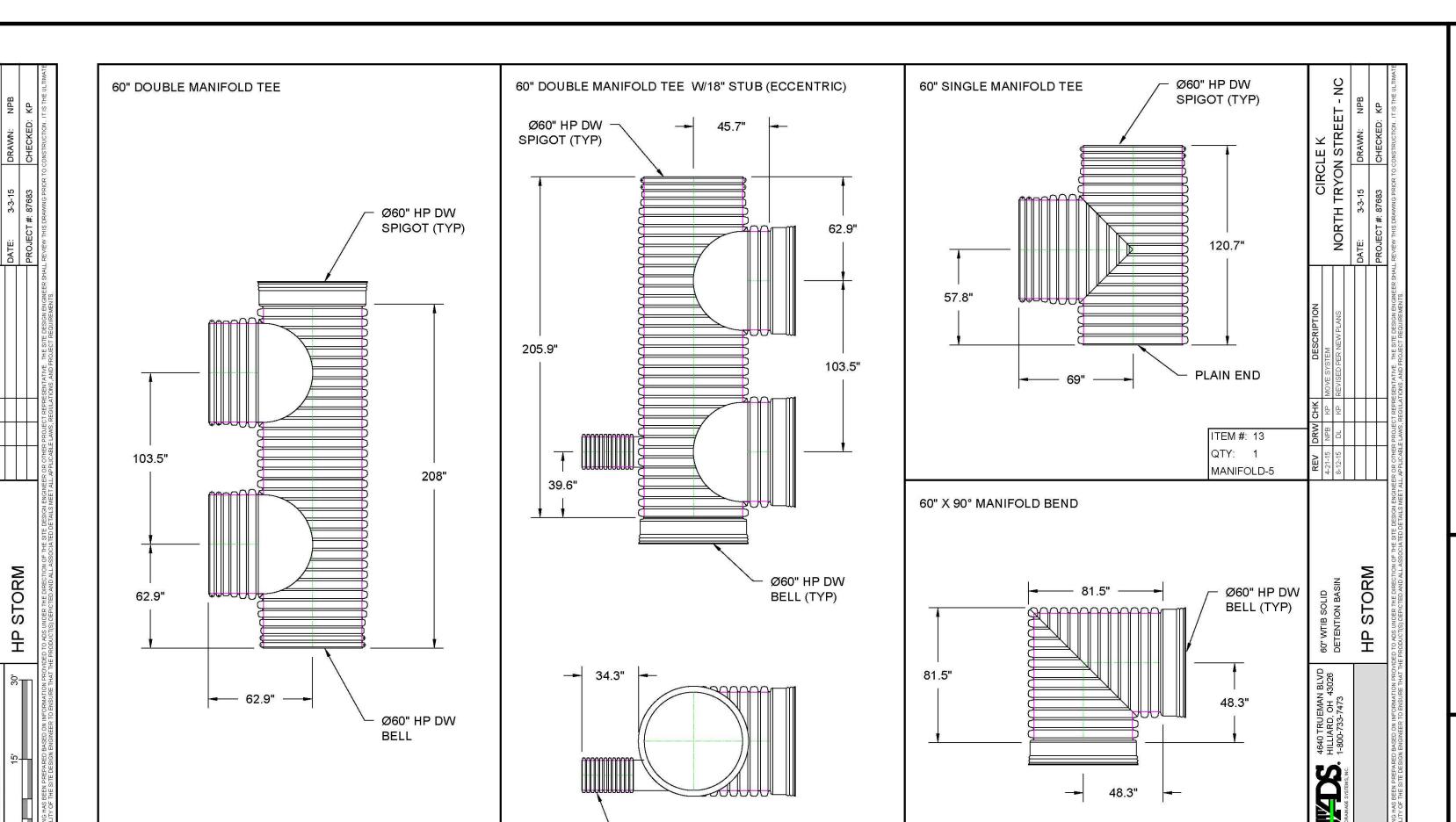


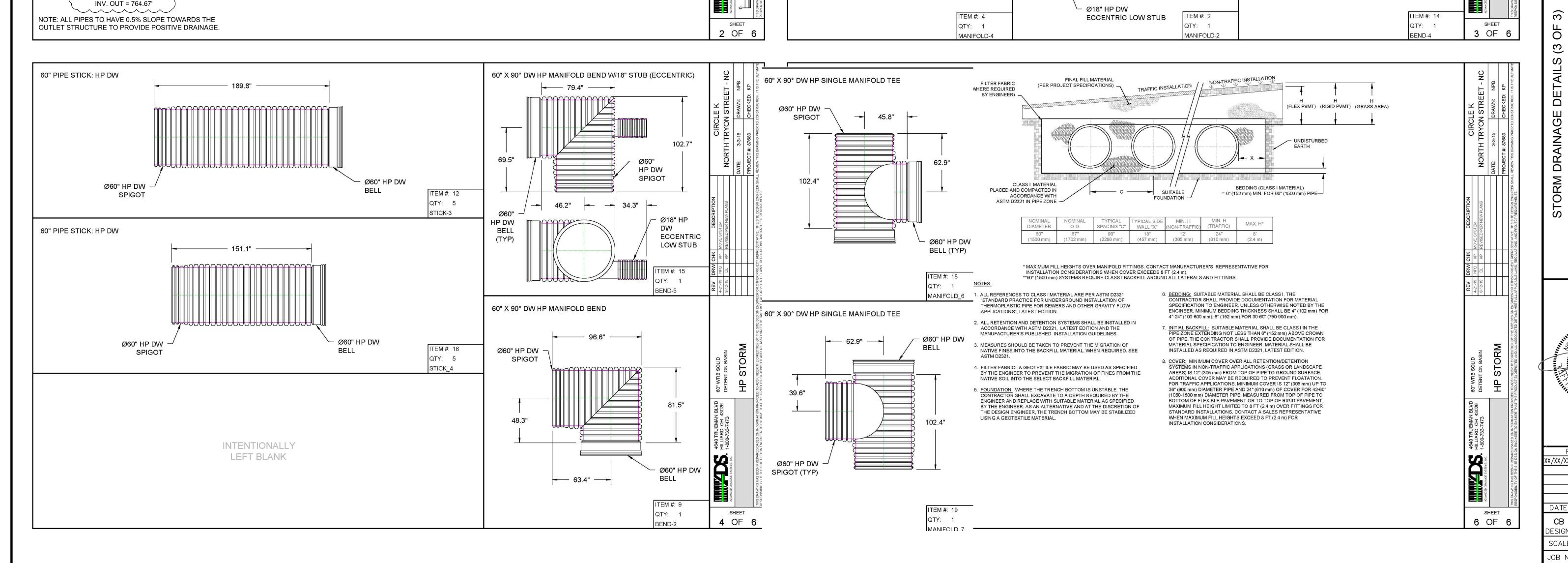
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СВ	YY	JAB			
DESIGN	DRAWN				
SCALE H: 1" = 30' V: 1" = XX'					
JOB No. <b>8327-01-002</b>					
DATE <b>DECEMBER 11, 2015</b>					
FILE No. 8327-D-CP-002					
NC LICENSE No. C-3556					
SHEET $C601$					











ALL INLETS MUST BE INSCRIBED WITH FISH LOGO AND READ, "DUMP NO WASTE. DRAINS TO STREAM" OR EQUIVALENT APPROVE LANGUAGE.

PLAN STATUS xx/xx/xx|xxxxx DATE | DESCRIPTION CB YY DESIGN DRAWN CHKD JOB No. **8327-01-002** DATE DECEMBER 11, 201

FILE No. 8327-D-CP-00 NC LICENSE No. **C-3556** 

**BILL OF MATERIALS** \*THE COMPONENTS AND QUANTITIES LISTED HEREIN ARE NOT INTENDED TO BE A COMPREHENSIVE MATERIAL LIST. EXTRA COMPONENTS, NOT LISTED HEREIN, MAY BE NECESSARY TO COMPLETE THE CONSTRUCTION OF THE SYSTEM

> 60" HP DW SINGLE MANIFOLD 60" X 90° HP DW MANIFOLD BEND

60" HP DW PIPE STICK: SOLID

- STR 6 DROP INLET GRATE ELEV = 772.75'

ON SHEET C806)

INV. OUT = 764.79' (18" HDPE) (SEE NCDOT DETAIL 840.17

- TOP ELEV = 772.90'

60" HP DW SINGLE MANIFOLD TEE 60" DW HP SINGLE MANIFOLD TEE

- STRUCTURE (\$\frac{1}{2}D 6 DI) PER ENGINEER'S PLAN (DESIGN BY ENGINEER/PROVIDED BYOTHERS)

OUTLET STRUCTURE (SD 5) PER ENGINEER'S PLAN

(DESIGN BY ENGINEER/PROVIDED BY OTHERS)

MATERIAL VENDOR

ADS GEOTEXTILE FABRIC

THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE

THE SITE DESIGN ENGINEER MUST REVIEW THE PROXIMITY OF THE PIPE TO THE BUILDING/STRUCTURE. NO

FOUNDATION LOADS SHALL BE TRANSMITTED TO THE PIPE. THE SITE DESIGN ENGINEER MUST CONSIDER EFFECTS OF POSSIBLE SATURATED SOILS ON BEARING CAPACITY OF SOILS AND SEEPAGE INTO BASEMENTS.

STRUCTURE (SD 7 DI) PER ENGINEER'S PLAN

(DESIGN BY ENGINEER/PROVIDED BY OTHERS)

- STR 7 DROP INLET

ON SHEET C806)

GRATE ELEV = 772.75'

INV. OUT = 765.47' (18" HDPE)

(SEE NCDOT DETAIL 840.17

