

901 PROCTOR STREET, ZEBULON NC

SELF STORAGE FACILITY

0.29 ac (12,756 sf)

0.06 ac (2,569 sf)

HC (HEAVY COMMERCIAL

SUBURBAN COMMERCIAL

 $80\% \times 6.40 = (5.12 \text{ ac})$

3.64 ac / 6.40 ac = 57 %

105,106/5000 = 21 SPACES

6.75 ac (294,161 sf)

6.40 ac (278,836 sf)

105,106 sf

0', 5' (SIDE)

25' (REAR)

21 SPACES'

35.840297

-78.315683

1 per Bldg

NEUSE

03020203

MOCCASIN CREEK

258,310.80 SF (5.93 AC)

27,878.40 SF (.64 AC)

286,076 SF (6.57 AC)

Construction Plan StorageMax

Town of Zebulon
Wake County, North Carolina
Project 1098359
SUP - 2023 -02

DESCRIPTION

Site Plan - Overall

Existing Conditions Survey

Existing Conditions & Tree Survey

Cover Sheet

SHEET

ES101

ES001

LS1

LS2

LS3

C0

SITE	DATA

SITE ADDRESS:
PIN:
CURRENT USE:
PROPOSED USE:
SITE AREA (GROSS):
ROW DED. SHEPARD SCHOOL:
ROW DED. PROCTOR:
SITE AREA (NET):
ZONING DISTRICT:
FUTURE LAND USE:
PROPOSED BUILDING SIZE:
BUILDING HEIGHT (MAX):
MAX LOT COVERAGE (ALLOWED) - HC:
MAX LOT COVERAGE (PROVIDED) - HC:
BUILDING SETBACKS:

PARKING (REQUIRED: 1 SPACE / 5000 sf): PARKING (PROVIDED) : LATITUDE: LONGITUDE:

BIKE PARKING (REQUIRED)
BIKE PARKING (PROVIDED)
WATERSHED:
RIVER BASIN:
HUC:
DENUDED AREA ON SITE:

DENUDED AREA ROW:

DENUDED AREA TOTAL

OPEN SPACE (PASSIVE) SUMMARY

REQUIRED: 3% X 6.5 AC = .19AC
PROVIDED: BIORETENTION AREA WITH PEDESTRAIN
ACCESS .72 AC / 6.6 AC = 11%
OPEN AREA AT THE BMP TO COMPLY WITH
UDO 5.7.5

PUBLIC IMPROVEMENT QUANTITIES

I QUANTITIES
PHASE 1
1
1
1
0
YES
0
0
0
1
1
0
0

	1505	ND
	NEW LEGE	ND EXISTING
DRAINAGE STRUCTURE		
SANITARY SEWER MANHOLE	S	<u>(Ŝ</u>)
SANITARY SEWER CLEANOUT	C.O.	c.o.
WATER VALVE	\otimes	\otimes
FIRE HYDRANT	₩	\$70
OVERHEAD UTILITY LINE	——————————————————————————————————————	— — — XOH— — — —
UNDERGROUND ELECTRIC LINE	——— Е ———	XE
UNDERGROUND TELECOM/DATA LINE	TD	
FIBER OPTIC CABLE	F0	— — XFO — — — —
GAS LINE	G	— — — XG — — — —
STORM DRAINAGE PIPE	SD	
SANITARY SEWER LINE		
WATER LINE	——— W ———	XW
SURFACE ELEVATION CONTOUR	400	400
SURFACE SPOT ELEVATION	356.44	_x 356.44
CLEARING LIMIT/TREE LINE		$ \land \land$
LIMIT OF DISTURBANCE		
ELECTRICAL TRANSFORMER PAD	T	T
TOWNHOME PARKING (NUMBER)	71	



Site Plan - Enlarged North Site Plan - Enlarged South Grading Plan - Overall Grading Plan - Enlarged North Grading Plan - Enlarged South Utility Plan - Overall Utility Plan - Enlarged North Utilitiy Plan - Enlarged South Shepard School - Widening and Striping Shepard School - Plan and Profile C13 Shepard School - Cross-Sections Easement Plan Standard Site Details Stormwater Details **BMP Bioretention Detail** Water and Sanitary Sewer Details NCDOT Roadway Details Phase 1 - Erosion Control Plan EC1 EC2 Phase 2 - Erosion Control Plan EC3 Phase 3 - Erosion Control Plan EC4 Phase 4 - Erosion Control Plan EC5 **Erosion Control Details** EC6 **Erosion Control Details** EC7 NCGO1 Requirements

Site Photometric Plan

Planting Plan - North

Planting Plan - South

Planting Details

Architectural

Exterior Lighting Cut Sheets

PROJECT INFORMATION:

PROJECT: STORAGE MAX COMMERCIAL

OWNER / DEVELOPER: SHEPARD SCHOOL, LLC 2700 GRESHAM LAKE RD

2700 GRESHAM LAKE RD. RALEIGH, NC 27615

CONTACT: ALLEN MASSEY (919) 604-0505

IAIL: STORIT@AOL.COM

ENGINEER: KEITH P. GETTLE. PE

GETTLE ENGINEERING AND DESIGN, PLLC LICENSE: P-2538

3616 WAXWING CT.
WAKE FOREST, NC 27587
PHONE: (919) 210-3934
EMAIL: KPGETTLE@GMAIL.COM

SURVEYOR: CAWTHORNE MOSS AND PANCIERA P.C.

333 SOUTH WHITE STREET
WAKE FOREST NORTH CAROLINA 27588

(919) 556- 3148

PHONE: (919) 556- 314

OVERLAY: NONI

FLOOD ZONE: NO FLOOD HAZARDS AREAS PER FEMA FIRM 3720270600K

sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 996-2409, and the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction. Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result.

ATTENTION CONTRACTORS

einstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT APPROVED

EROSION CONTROL □ SEC-____
STORMWATER MGMT.□SWF-__
FLOOD STUDY □ SWF-___

ENVIRONMENTAL CONSULTANT SIGNA

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval

GENERAL NOTES

DECEMBER 22, 2022.

AUTHORITY.

ARE REQUIRED.

CONSIDERED FEE-IN-LEU

SCHEDULED DATES OF WASTE PICKUP.

1. BOUNDARY AND TOPO INFORMATION TAKEN FROM

UTILITIES & SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS ACTIVITIES. CALL UTILITY LOCATOR

SERVICE AT LEAST 48 HOURS PRIOR TO DIGGING.

NCDOT STANDARDS AND SPECIFICATIONS.

TOWN OF ZEBULON UDO SECTION 5.11.

CAWTHORNE, MOSS & PANCIERA, P.C., SURVEYING, TITLED TOPOGRAPHIC SURVEY FOR STORAGE MAX LLC, DATED

2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING

3. ALL CONSTRUCTION WILL BE IN STRICT CONFORMANCE TO THE TOWN OF ZEBULON. CITY OF RALEIGH, WAKE COUNTY AND

4. NO CHANGES MAY BE MADE TO THE APPROVED DRAWINGS

5. THE PARCEL IS NOT LOCATED WITHIN A FLOOD ZONE AS NOTED PER FEMA MAP 372020600J, DATED MAY 2, 2006.

6. BUILDING AND ENTRANCE SIGNAGE TO COMPLY WITH THE

SITE, SHALL BE EVALUATED DURING DETAILED SITE PLAN

7. EMERGENCY COMMUNICTION WITHIN THE BUILDINGS, AND ON

DEVELOPMENT: DETERMINATION IF BIDIRECTIONAL REPEATERS

8. ROAD WORK ON SHEPARD AND PROCTOR STREETS TO BE

IMPROVEMENTS. SHEPARD IS PROPOSED TO HAVE A 4 LANE

DIVIDED ROADWAY. THE PROJECT IS RESPONSIBILE FOR $\frac{1}{2}$ OF

ROADWAY IMPROVEMENTS AND THE CENTER MEDIAN WILL BE

SOLID WASTE DISPOSAL TO BE PROVIDED BY A ROLL TYPE

REFUSE BIN AND STORED AT THE OFFICE BUILDING. THE

CONTAINER TO BE ROLLED OUT TO PROCTOR STREET ON

DIVIDED ROADWAY, AND PROCTOR ST. TO HAVE A 2 LANE

CONSISTENT WITH THE TRANSPORTATION PLAN

WITHOUT WRITTEN PERMISSION FROM THE ISSUING

City of Raleigh Review Officer

Gettle Engineering and Design,

RPG
Wake County Commnet KPG
BY
BY
Wake Forest, North Carolina 27587
BY
(919) 210-3934 Firm License P-2538

PLLC

Cover Sheet StorageMax (1098359) 901 Proctor Street

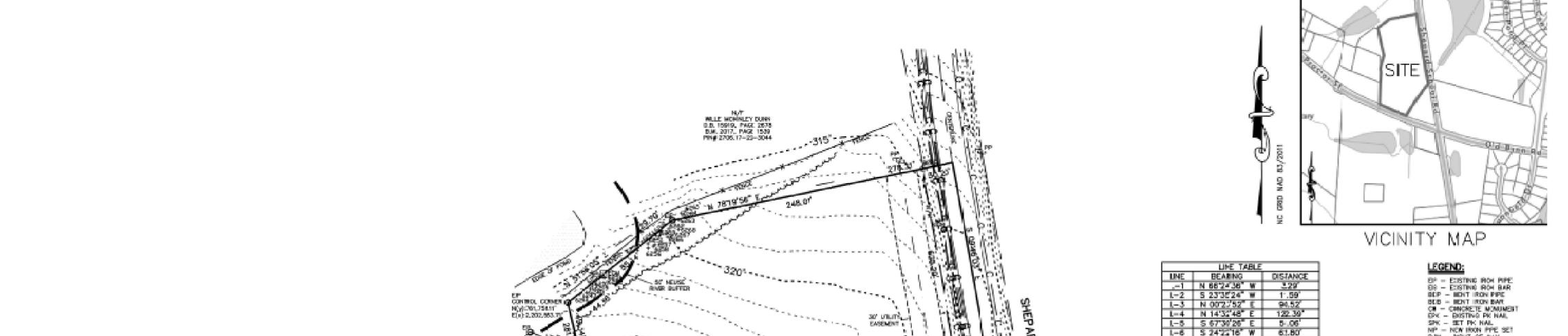


I, L. JORDAN PARKER, JR. CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERMEON FROM AN ACTUAL GLOBAL POSITIONING BYSTEM (GPS) SURVEY MADE UNDER MY SUFERVISION AND THE FOLLOWING INFORMSTION WAS USED TO PERFORM THE SPS/GNSS SURVEY THAT THE BOUNDARIES FOR SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION SHOWN IN THE REFERENCES, THAT THE RATIO OF PRECISION OR POSITIONAL ACCURACY AS CALCULATED IS GREATER THAN 1:10004; THIS SURVEY IS NOT TO BE RECORDED WITHOUT THE WRITTEN CONSENT OF

CLASS OF SURVEY AA.
POSTIONAL ACCURACY: HORZONTAL 0.05 US SURVEY FEET.

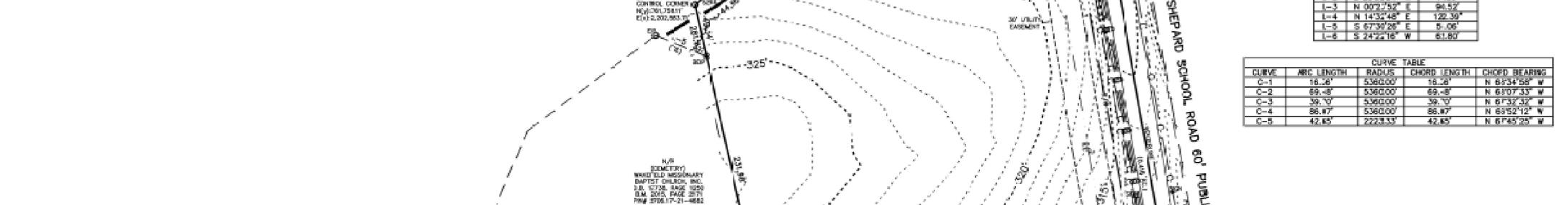
OA JANOTEO	CUFACY: HOFIZON	TAL 0.05 US SURVE	Y FITT
THE OF GREET		REAL TIME KINIEMAT	125
ATES OF SUR	Ñer:		
ATUM/EPOCH;	NAB 83(2011) 201	0.00	
UBLISHED/FIK		RALEICH EDT CORS	ARP
		AT: 35745749.50795 ONG: 78'34'44.3944	o"
EROD MODEL:	_	MHL2 / 0 2-1 44, 3244	
ONBINED CRED	FACTORS: 1,50008	4156820年	
NIFS; <u>US. SUFY</u>	<u>/EY F00</u> T		
HIS 11.3TIH	_DAY_OFDEX	SEMBER A.D. 20	0.2.3.
75000	legmed by:		
	The second secon	h.	
(San e.)	g Jordan Parker,	30	
	C18GOABHN	L 468	
PROFESSION/	AL LAND SURMEYOR	R LICENSE NI	IMBE S
	TREE SPECIES	& SIZEWIN.) TABI	
Point	Northing	Ecuting	Description
617-4	761085.086	2202522.518	SWEET GUM-2W SWEET GUM-2D
6175 6178	7610.31.9E9 761224.588	2202555.727 2202568.487	OAK-8
6179	761215.556	2202573.439	BRADFORD PEAF-5
6180	7612/04/683	2202566,320	OAK-13
6181	761214.357	2202566.790	CHERRY-9
618.2	761216.192	2202564.746	CEDAR-8
618-3	781191,057	2202568,571	CEDAR-8
6184	761193.251	2202574.966	CEDAR-10
6185 6186	7611/61.3¥2 761176.6¥9	2202575.734 2202573.424	PRIVET-4X3
6187	761163.044	2202581,026	PRIVET-4 SWEET GUM-7
6188	761164.004	2202575.940	SWEET GLM-W
6189	761128.653	2202563.736	OHIN/ABERRY-E
6190	761136.190	2202564.997	SWEET GUM-8=2
6191	761145.027	2202581.485	BRADFORD PEAF -7
619:2	7611+3.632	2202585.C04	OHNABERRY-E
619.3	761143.153 761252.153	2202580.059 2202572,561	CHINABERRY-= CHERRY-4
6194 6195	7612-43.993	2202=78.508	CHNABERRY-4=2
6196	-61272.803	2202570.394	F M-4
6197	761267.256	2202567.289	OAK-7
6198	761265,382	2202579.248	CHINABERRY-E
6199	761306.987	2202569.211	0,AK-21
6200	761317.252	2202569.247	SWEET GUM-8=2
6201 6202	761320,654 761327,774	2202569.341 2202569.191	OAK-7 CHERRY-6
6203	761324.010	2202570.176	CHERRY-5
6204	761327.806	3202575.451	BR#DFORD PEAR-10
6205	761323,600	2202574,394	PINE-4
6206	7613.32.153	1202587.391	OAK-4
6207	761340.4=9	2202572.910	0.AK-11
6208	761345.4=4	2202569.132	0.AK-11
6209	761343.307 761353.158	2202568.635 2202570.671	CEDAR-4 CEDAR-4
6210 6211	761355.9=5	2202568.262	SWEET GUM-9
6212	761355,450	2202573,304	OAK-8
6213	761361.833	2202569.043	CEDAR-5
6214	761367.997	2202572.061	0.AK-11
6215	761373,585	2202575.169	OAK-S
6216	761373.510	2202573.973	BRADFORD PEAF:-8
6217	761383.379	2202=74.540	CEDAR-8
6218 6219	761388.3=8 761390.686	2202577.079 2202575.970	CHERRY-7 CEDAR-8
6220	761393.6=4	2202576.358	CEDAR-9
6221	761405.925	2202584.009	SWEET GUM-13E3
6222	761410.452	2202581.325	CHERRY-10
6223	761409.754	2202584.910	CEDAR-7
6224	T614:23,8=6	2202584,696	CHERRY-4





TOTAL AREA - 7.169 AC.

LESS R/W - 0.416 AC., NET AREA - 6.753 AC.



GRAVES(S)-

- THIS PLAT SUBJECT TO ALL EASEMENTS, AGREEMENTS AND RIGHTS OF WAY OF RESORD PRIOR TO THE DATE OF THIS PLAT.
- UNDERGROUND UTLITIES HAVE BEEN MARKED OR LOCATED FOR THIS PLAT BY OC MAPPING SERVICE, NC.
- 3. AL_ BEARINGS AND DISTANCES ARE

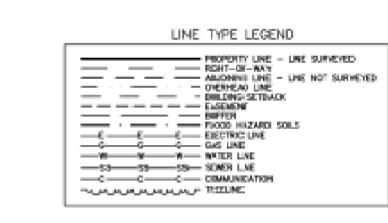
R/W - BIGHT OF MAY CATV - CABLE TV BOX EB - ELECTRIC BOX TBL - TILEPHIONE PEDESTAL

TEL - TILEPHIONE PEDESIM
PF - PRIMER POLE
OM. - CVERHEAD LINE
LP - LIDHT POLE
MA - WATER METER
MY - WATER METER
MY - WATER MALVE
CE - SEMER OLEAN-OUT
CC - CONCRETE
CE - CATCH SASIS
MH - MANHOLE
FR - FIRE HYDRAMT
RTW - RETAINING MALL

D.B.T. DISC (FELD LICATED)

- HORIZONTAL GROUND MEASUREMENTS: 4. AL, ELEVATIONS ARE EASED ON NAVO 88-
- AL_ CONTOURS ARE A" 1" INTERVALS HIGHLIGHTED EVERY 5".
- THERE IS NO NOSS MONUMENT WITHIN 2000' OF THIS PROPERTY.

NORTH BOTATION WAS OBTAINED VIA NC-VRS

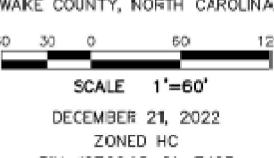


	REWSION BOX						
NO.	DATE	DESCRIPTION					
1	2/6/23	ADDED WM LOCATION AND REVISED UTILITY LINE ALONG SHEPARD SCHOOL RD					
2	12/14/23	ADDED POND BUFFER/BUFFER ZONES AND ITEMS FRON B.M. 2023. PG. 1507/OWNER UPDATE					

TOPOGRAPHIC SURVEY FOR

STORAGE MAX

901 PROCTOR STREET OWNER: SHEPARD SCHOOL, LLC REF: D.B. 19275, PAGE 2208 TOWN OF ZEBULON LITTLE RIVER TOWNSHIP WAKE COUNTY, NORTH CAROLINA



PIN #2706.18-21-7463

PROFESSIONAL LAND SURVEYORS, C-1525, 333 S. WHITE STREET, P.O. BOX 1253, WAKE FOREST N.C., 27588, (919) 556-3148

ions Survey (1098359) Existing Co. . StorageMax (10) 901 Proctor St

PLL

Design,

ettle

Ö

Engineering and Safe Waxwing Court, ake Forest, North Carolina 210-3934 Firm Licens

01-05-03-08-05-31-DATE DATE DATE

- 2 K K 4 7 9 8 8 0.00

Project No. 23001

Dwg No.

LINE TABLE LINE BEARING DISTANCE L-1 N 14*32*48" E 122.39' L-2 S 67*30'26" E 51.06' EIP - EXISTING IRON PIPE EIB - EXISTING IRON BAR BEIP - BENT IRON BAR CM - CONCRETE MONUMENT EPK - EXISTING PK NAIL NIP - NEW IRON PIPE SET R/W - RIGHT OF WAY CATV - CABLE TV BOX EB - ELECTRIC BOX TEL - TELEPHONE PEDESTAL PP - POWER POLE OHL - OVERHEAD LINE LP - LIGHT POLE WM - WATER METER WV - WATER VALVE	PP CENTER IN THE PROPERTY OF T	LINE TYPE LEGEND
CO — SEWER CLEAN—OUT CC — CONCRETE CB — CATCH BASIN MH — MANHOLE FH — FIRE HYDRANT RTW — RETAINING WALL — D.O.T. DISC (FIELD LOC	18 Bar 19	
EP CNTROLC CONTROL CON	RNER 624 33 71 533 71	
	N/F (CEMETERY) WAKEFIELD MISSIONARY BAPTIST CHURCH, INC. D.B. 17738, PAGE 1250 B.M. 2015, PAGE 2171 PIN# 2706.17-21-4682 HC Zoning FENCE CORNER S.1.5 FENCE S.1.5 FENCE CORNER S.1.5 FENCE S.1.5 FENCE S.1.5 FENCE CORNER S.1.5 FENCE S.1.5	The second statement of the se
	REALES OF LOS OF PROPERTY LINE PROPERTY LINE PROPERTY LINE PROPERTY LINE PROPERTY LINE LOS OF	Storm be mullion 30: 30: 30: 30: 30: 30: 30: 30: 30: 30
CENTERLINE TO TO RCD	N/F WAKEFIELD BAPTIST CHURCH D.B. 1041, PAGE 224 B.M. 2004, PAGE 1244 PIN# 2706.17-21-3256 R2 Zoning FENCE CROSSES R2 Zoning FENCE CROSSES FENCE CROSSES	APPARENT D.O.T. EASEMENT (FIELD LOCATED) NO RECORDS FOUND
\$\$	CENTERLINE SOM COM COM COM COM COM COM COM COM COM C	COM

TREE SPECIES & SIZE(IN.) TABLE

2202655.727

2202573.439

2202566.320

2202566.790

2202564.746

2202568.571

2202574.966

2202575.734

2202573.424

2202575.940

2202563.736

2202564.997

2202585.004

2202580.059

2202572.561

2202570.394

2202578.908

2202579.248

2202569.247

2202569.341

2202569.191

2202570.176

2202575.451

2202574.394

2202567.391

2202568.635

2202570.671

2202568.262

2202573.304

2202569.043

2202572.061

2202575.169

2202573.973

2202574.540

2202575.970

2202576.358

2202581.325

2202584.910

2202584.696

2202589.024

2202586.395

2202593.164

2202594.369

2202595.652

2202594.529

2202596.549

2202593.089

2202592.909

2202590.908

2202590.338

2202590.286

2202586.513

2202584.408

2202583.434

2202583.939

2202544.218

2202600.836 2202611.799 2202611.937 2202618.437 2202616.515

2202623.170

2202622.737 2202619.452

 761816.162
 2202619.452
 OAK-4

 761822.666
 2202632.380
 OAK-12

 761831.660
 2202641.175
 CHINABERRY-12X3

 761837.183
 2202643.970
 CHINABERRY-11X2

 761839.450
 2202647.234
 CHINABERRY-11X3

 761814.819
 2202631.253
 CHINABERRY-10

 761816.300
 2202635.425
 CHINABERRY-5

 761822.055
 2202641.536
 CHINABERRY-5

2202586.475

2202590.244

2202584.009 SWEET GUM-13X3

2202589.790 CHERRY-8

2202581.485

2202568.487

761031.969

761224.598

761215.566

761204.663

761214.357

761191.087

761193.251

761181.372

761176.699

761163.074

761164.004

761128.633

761136.190

761145.027

761143.632

761143.133

761243.993

761272.803

761267.266

761265.382

761306.967

761320.654

761327.774

761324.010

761327.806

761323.600

761340.449

761345.444

761343.307

761353.158

761355.945

761355.480

761361.833

761367.997

761373.555

761373.510

761383.379

761388.348

761390.696 761393.644

761405.925

761410.462

761409.734

761423.846

761435.986

761429.364

761428.331

761435.469 761453.836

761454.539

761462.670

761467.122

761485.052

761492.602

761494.097

761503.809

761507.456

761512.563

761525.066

761527.229

761540.840

761534.401

761758.972

761816.433

761529.155

761542.150

761760.783 2202552.404 761764.823 2202555.858

6249 761764.804 2202558.175

761438.719

761252.133

6184

6185

6186

6188

6189

6190

6191

6193

6194

6195

6196

6198 6199

6200

6208

6209

6214

6216

6218 6219

6225

6234

6238

6239

6242

6244

6263 6264

6265 6266 6267 6268

SWEET GUM-22

BRADFORD PEAR-5

CHERRY-9

CEDAR-8

CEDAR-8

CEDAR-10

PRIVET-4X3

PRIVET-4

SWEET GUM-7

SWEET GUM-9

CHINABERRY-6

SWEET GUM-8X2

BRADFORD PEAR-7

CHINABERRY-8

CHINABERRY-4

CHINABERRY-4X2

ELM-4

CHINABERRY-6

SWEET GUM-8X2

CHERRY-6

CHERRY-5

BRADFORD PEAR-10

PINE-4 OAK-4

CEDAR-4

CEDAR-4

OAK-8 CEDAR-5

OAK-11

BRADFORD PEAR-8

CEDAR-8

CHERRY-7

CEDAR-8

CEDAR-9

CHERRY-10

CHERRY-4

SWEET GUM-8

SWEET GUM-11

SWEET GUM-8 BRADFORD PEAR-4 OAK-8

OAK-27 OAK-18 OAK-7

SWEET GUM-8

SWEET GUM-6

CEDAR-5

CEDAR-7 CHERRY-5

SWEET GUM-7

SWEET GUM-4

BRADFORD PEAR-7

OAK-4
SWEET GUM-5
OAK-5
OAK-4
CHINABERRY-7X2
OAK-4
OAK-5
CHINABERRY-11
CHINABERRY-19
CHINABERRY-7
CHINABERRY-4
OAK-11
OAK-8
OAK-4

OAK-6 SWEET GUM-8

SWEET GUM-9

CHERRY-4

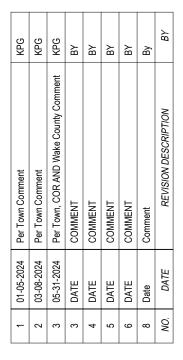
DEMOLITION NOTES

- 1. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS EXCEPT WHEN PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE ACCEPTABLE TEMPORARY UTILITY SERVICES. (1) NOTIFY OWNER NOT LESS THAN ONE WEEK IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS. (2) DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT RECEIVING OWNER WRITTEN PERMISSION. (3) COORDINATE ALL UTILITY RELOCATION
- 2. SUBSURFACE FEATURES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR IS RESPONSIBLE FOR SUBSURFACE UTILITY EXPLORATION TO DETERMINE UTILITY
- OF CONSTRUCTION.
- 4. LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION, AND REPAIR OR REPLACE ANY
- 5. THIS PLAT SUBJECT TO ALL EASEMENTS, AGREEMENTS AND RIGHTS OF WAY OF
- 6. UNDERGROUND UTILITIES HAVE BEEN MARKED OR LOCATED FOR THIS PLAT BY GC
- 7. ALL BEARINGS AND DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS
- 9. ALL CONTOURS ARE AT 1' INTERVALS HIGHLIGHTED EVERY 5'.

- WITH APPROPRIATE UTILITY PROVIDER.
- LOCATIONS AND DEPTHS.
- 3. VERIFY LOCATIONS AND SIZES OF ALL EXISTING FEATURES PRIOR TO COMMENCEMENT
- DAMAGES TO EXISTING UTILITIES RESULTING FROM CONSTRUCTION.
- RECORD PRIOR TO THE DATE OF THIS PLAT.
- MAPPING SERVICE, INC.
- 8. ALL ELEVATIONS ARE BASED ON NAVD 88
- 10. THERE IS NO NCGS MONUMENT WITHIN 2000' OF THIS PROPERTY.
- 11. NORTH ROTATION WAS OBTAINED VIA NC-VRS.

Design, and Court, Engineering and 3616 Waxwing (ake Forest, North Carlo-3934 Firm ake 210-Gettle

굽





Existing Conditions / Tree Survey StorageMax (1098359) 901 Proctor Street Zebulon, Wake County, North Carolina

- WHERE NEW CURB AND GUTTER IS INSTALLED IN A PUBLIC STREET RIGHT-OF-WAY, USE 30" CURB AND GUTTER. IN OTHER LOCATIONS, USE 24" CURB AND GUTTER.
- ALL CURB DIMENSIONS ARE MEASURED TO BACK OF CURB, AND ALL CURB RADII ARE 3 FEET, UNLESS INDICATED OTHERWISE.
- USE REVERSE-PITCH CURB AND GUTTER WHERE ADJACENT PAVEMENT SLOPES AWAY FROM CURB, AND STANDARD-PITCH CURB AND GUTTER ELSEWHERE, UNLESS OTHERWISE NOTED. PROVIDE POSITIVE DRAINAGE ALONG AND FROM ALL GUTTERS.
- ALL SITE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE INDICATED.
- ALL BASE AND PAVING WORK SHALL COMPLY WITH LOCAL STANDARDS. INDICATED PAVEMENT THICKNESSES REFER TO COMPACTED THICKNESS.
- INSTALL ALL PAVEMENT WITH POSITIVE SURFACE DRAINAGE.
- 7. ALL HANDICAPPED PARKING SPACES, AISLES, RAMPS, SIGNAGE, PAVEMENT MARKINGS, CROSSWALKS, AND ACCESSIBLE ROUTES SHALL MEET APPLICABLE REQUIREMENTS OF THE NORTH CAROLINA ACCESSIBILITY
- ALL HANDICAP ACCESSIBLE PARKING SPACES SHALL HAVE AN R7-8 AND R7-8D SIGN. ALL SIGNS FOR VAN ACCESSIBLE SPACES SHALL ALSO INCLUDE A "VAN ACCESSIBLE" SIGN.
- CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES DURING THE COURSE OF PROJECT WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, THE N.C. SUPPLEMENT TO THE MUTCD, ANY REGULATORY AGENCY REQUIREMENTS, AND PROJECT-SPECIFIC SAFETY CONSIDERATIONS.
- TIE-INS TO EXISTING PAVEMENT, CURBS, WALKS, ETC. SHALL BE MADE WITH NEAT EDGES AND SMOOTH, GRADUAL TRANSITIONS THAT ARE SAFE, FUNCTIONAL, DURABLE, AND VISUALLY ACCEPTABLE TO THE OWNER AND REVIEW AUTHORITIES.
- 11. BUILDING SIZE, CONFIGURATION, ARCHITECTURAL ELEMENTS, UTILITY STUBS, AND OTHER BUILDING FEATURES SHOWN ON THESE DRAWINGS ARE TAKEN FROM INFORMATION PROVIDED BY OTHERS. BUILDING LINES SHOWN GENERALLY REPRESENT THE EXTERIOR FACE OF THE BUILDING, BUT SHOULD NOT BE USED FOR BUILDING STAKING OR CONSTRUCTION. REFER TO BUILDING PLANS FOR ACTUAL BUILDING DIMENSIONS, DOOR LOCATIONS, COLUMN AND FOOTING LOCATIONS, WALL THICKNESSES, OVERHANGS, ROOF LINES, AND OTHER FEATURES. CONTRACTOR SHALL COORDINATE UTILITY AND DRAINAGE LOCATIONS, ELEVATIONS, MATERIALS, AND SIZES WITH INFORMATION SHOWN ON THE BUILDING DRAWINGS; AND SHALL VERIFY THAT BUILDING ELEMENTS WILL NOT ENCROACH INTO REQUIRED SETBACKS.

OPEN SPACE (PASSIVE) SUMMARY

REQUIRED: 3% X 6.5 AC = .19AC PROVIDED: BIORETENTION AREA WITH PEDESTRAIN ACCESS .72 AC / 6.6 AC = 11% OPEN AREA AT THE BMP TO COMPLY WITH PLLC Design, Engineering and Gettle

3616 KPG KPG KPG BY BY BY BY BY



Site

SITE NOTES

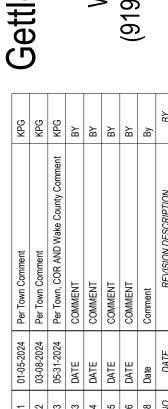
- WHERE NEW CURB AND GUTTER IS INSTALLED IN A PUBLIC STREET RIGHT-OF-WAY, USE 30" CURB AND GUTTER. IN OTHER LOCATIONS, USE 24" CURB AND GUTTER.
- ALL CURB DIMENSIONS ARE MEASURED TO BACK OF CURB, AND ALL CURB RADII ARE 3 FEET, UNLESS INDICATED OTHERWISE.
- USE REVERSE-PITCH CURB AND GUTTER WHERE ADJACENT PAVEMENT SLOPES AWAY FROM CURB. AND STANDARD-PITCH CURB AND GUTTER ELSEWHERE. UNLESS OTHERWISE NOTED. PROVIDE POSITIVE DRAINAGE ALONG AND FROM ALL GUTTERS.
- ALL SITE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE INDICATED.
- ALL BASE AND PAVING WORK SHALL COMPLY WITH LOCAL STANDARDS. INDICATED PAVEMENT THICKNESSES REFER TO COMPACTED THICKNESS.
- INSTALL ALL PAVEMENT WITH POSITIVE SURFACE DRAINAGE.
- ALL HANDICAPPED PARKING SPACES, AISLES, RAMPS, SIGNAGE, PAVEMENT MARKINGS, CROSSWALKS, AND ACCESSIBLE ROUTES SHALL MEET APPLICABLE REQUIREMENTS OF THE NORTH CAROLINA ACCESSIBILITY CODE.
- ALL HANDICAP ACCESSIBLE PARKING SPACES SHALL HAVE AN R7-8 AND R7-8D SIGN. ALL SIGNS FOR VAN ACCESSIBLE SPACES SHALL ALSO INCLUDE A "VAN ACCESSIBLE" SIGN.
- CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES DURING THE COURSE OF PROJECT WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, THE N.C. SUPPLEMENT TO THE MUTCD, ANY REGULATORY AGENCY REQUIREMENTS, AND PROJECT-SPECIFIC SAFETY CONSIDERATIONS.
- TIE-INS TO EXISTING PAVEMENT, CURBS, WALKS, ETC. SHALL BE MADE WITH NEAT EDGES AND SMOOTH, GRADUAL TRANSITIONS THAT ARE SAFE, FUNCTIONAL, DURABLE, AND VISUALLY ACCEPTABLE TO THE OWNER AND REVIEW AUTHORITIES.
- 11. BUILDING SIZE, CONFIGURATION, ARCHITECTURAL ELEMENTS, UTILITY STUBS, AND OTHER BUILDING FEATURES SHOWN ON THESE DRAWINGS ARE TAKEN FROM INFORMATION PROVIDED BY OTHERS. BUILDING LINES SHOWN GENERALLY REPRESENT THE EXTERIOR FACE OF THE BUILDING, BUT SHOULD NOT BE USED FOR BUILDING STAKING OR CONSTRUCTION. REFER TO BUILDING PLANS FOR ACTUAL BUILDING DIMENSIONS, DOOR LOCATIONS, COLUMN AND FOOTING LOCATIONS, WALL THICKNESSES, OVERHANGS, ROOF LINES, AND OTHER FEATURES. CONTRACTOR SHALL COORDINATE UTILITY AND DRAINAGE LOCATIONS, ELEVATIONS, MATERIALS, AND SIZES WITH INFORMATION SHOWN ON THE BUILDING DRAWINGS; AND SHALL VERIFY THAT BUILDING ELEMENTS WILL NOT ENCROACH INTO REQUIRED SETBACKS.
- 12. PAVEMENT TO BE STNADARD DUTY IN PARKING AREAS AND HEAVY DUTY IN DRIVE AISLES (SEE DETAIL).
- 13. CURB AND GUTTER TO BE 24" STANDARD ON SITE AND 30" STANDARD IN RIGHT OF WAY UNLESS OTHERWISE NOTED (SEE DETAIL).

GRAPHIC SCALE 1"=30'

Design, Engineering and 3616 Gettle

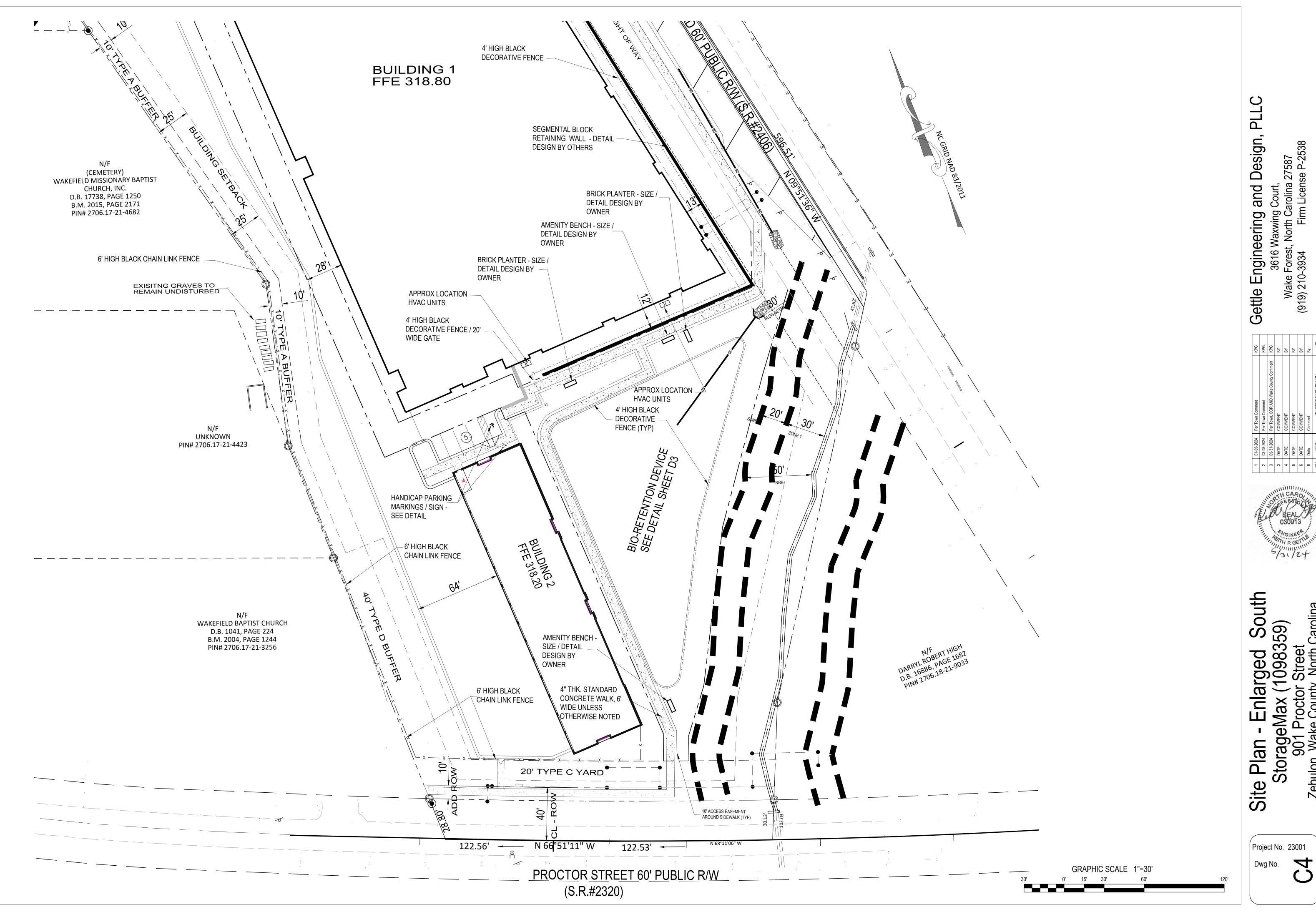
27 se |

 \circ





Enlarged North Max (1098359) 59) torageM 901 Pr llon, Wake (Plan Zebulon, Site



Gettle Engineering and Design, 3616 Waxwing Court, Wake Forest, North Carolina 27587

Enlarged Sol Max (1098359) StorageMax (10 901 Proctor Sebulon, Wake County, 1

Project No. 23001

Dwg No.

GENERAL GRADING AND STORM DRAINAGE SPECIFICATIONS

EXISTING CONDITIONS

INFORMATION ABOUT EXISTING UNDERGROUND FACILITIES AND SUBSURFACE CONDITIONS INDICATED ON THESE DRAWINGS IS NOT BASED ON AN EXHAUSTIVE INVESTIGATION OF SUCH FACILITIES OR CONDITIONS, AND THE ENGINEER MAKES NO WARRANTY TO ANY PARTY REGARDING THEM. EXISTING UTILITY LINE LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE, AND ACTUAL UTILITIES AND CONDITIONS MAY DIFFER FROM THOSE INDICATED. IF DIFFERING UTILITIES OR CONDITIONS EXIST, THEY MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT WORK, AND MAY IMPACT THE PROJECT SCOPE AND TIME REQUIREMENTS.

PROTECTION AND SAFETY

- * PRIOR TO BEGINNING WORK, AND AS NEEDED DURING THE COURSE OF PROJECT WORK, CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY LOCATION SERVICES AND UTILITY PROVIDERS TO REASONABLY VERIFY THE LOCATION OF ALL KNOWN OR SUSPECTED UTILITIES, IN ACCORDANCE WITH STATE REGULATIONS. CONTRACTOR IS ADVISED THAT SOME UTILITY PROVIDERS DO NOT SUBSCRIBE TO ONE-CALL SERVICES, AND MUST BE CONTACTED SEPARATELY.
- * CONTRACTOR SHALL PROVIDE ADEQUATE MEANS AND METHODS FOR PROTECTION OF ALL EXISTING UTILITIES AND SITE FEATURES WHICH ARE INTENDED TO REMAIN IN SERVICE OR IN PLACE.
- * CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES DURING THE COURSE OF PROJECT WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, THE N.C. SUPPLEMENT TO THE MUTCD, ANY REGULATORY AGENCY REQUIREMENTS, AND PROJECT-SPECIFIC SAFETY CONSIDERATIONS.
- * CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY PROGRAMS AND MEASURES ON THE PROJECT SITE OR OTHERWISE RELATING TO THE PROJECT WORK, AND SHALL COMPLY WITH ALL SAFETY CODES AND REGULATIONS APPLICABLE THERETO, FOR THE PROTECTION OF WORKERS, VISITORS, AND THE GENERAL PUBLIC.

COMPLIANCE

* ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS AND REQUIREMENTS OF THE CITY OF RALEIGH, TOWN OF ZEBULON, WAKE COUNTY SEDIMENTATION AND EROSION CONTROL OFFICE, AND THE N.C. STATE BUILDING CODES.

NOTIFICATIONS

- * NOTIFY THE ENGINEER AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR
- RESUMING ANY STORM DRAINAGE OR STORMWATER IMPOUNDMENT BASIN WORK.

 * NOTIFY THE APPLICABLE LOCAL GOVERNMENT AUTHORITIES IN ACCORDANCE WITH THEIR REQUIREMENTS PRIOR TO BEGINNING ANY WORK.
- * NOTIFY THE GEOTECHNICAL ENGINEER AND TESTING SERVICE AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING ANY GRADING OR STORMWATER IMPOUNDMENT BASIN WORK.

QUALITY CONTROL

- * ALL EARTHWORK OPERATIONS, INCLUDING TOPSOIL STRIPPING, STOCKPILING, EXCAVATION, FILLING, COMPACTING, TRENCHING, BACKFILLING, RETAINING WALLS, AND FINE-GRADING, SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER, WHO SHALL VERIFY THE SUITABILITY OF SOIL MATERIALS, MONITOR EARTHWORK ACTIVITIES, DIRECT AND OBSERVE PROOFROLLING, AND PROVIDE COMPACTION AND STABILITY TESTING DURING THE PROGRESS OF THE WORK
- * NO SOIL SHALL BE PLACED IN A PERMANENT LOCATION UNLESS IT HAS BEEN APPROVED BY THE GEOTECHNICAL ENGINEER FOR THE INTENDED USE AND LOCATION.
- * PRIOR TO PLACEMENT OF ANY FILL, THE SUBGRADE OR PREVIOUS LIFT OF FILL SHALL BE SUCCESSFULLY TESTED OR OTHERWISE APPROVED, AND DETERMINED TO BE READY FOR SUBSEQUENT WORK.
- * PRIOR TO PLACEMENT OF ANY AGGREGATE, PAVING, SLABS, STRUCTURES, FOOTINGS, PIPING, OR OTHER WORK, SUBGRADES AND OTHER BEARING SURFACES SHALL BE SUCCESSFULLY TESTED OR OTHERWISE APPROVED, AND DETERMINED TO BE READY FOR SUBSEQUENT WORK.
- CONTRACTOR SHALL ALLOW AND PARTICIPATE IN SOIL TESTING ACTIVITIES, INCLUDING ACTIVE COORDINATION WITH THE GEOTECHNICAL ENGINEER AND FURNISHING PROOFROLLING EQUIPMENT, MATERIALS, AND MANPOWER AS NEEDED.

CLEARING & GRUBBING

- * ALL VEGETATIVE MATERIAL DISLOCATED BY CLEARING AND GRUBBING ACTIVITIES SHALL BE COMPLETELY REMOVED FROM THE PROJECT SITE AND LEGALLY DISPOSED. NO ONSITE BURNING OF CLEARING WASTE SHALL OCCUR.
- ALL PAVEMENT, CURB, PIPE, STRUCTURES AND OTHER PHYSICAL SITE FEATURES THAT ARE INDICATED OR REQUIRED TO BE REMOVED SHALL BE LEGALLY DISPOSED IN AN OFFSITE LOCATION.

GRADING

- STRUCTURAL FILL IS DEFINED AS SOIL CLASSIFIED AS SM, SC, ML, AND CL, FREE OF VEGETATIVE MATTER, DEBRIS OR OTHER UNSUITABLE MATTER, FREE OF ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION, CAPABLE OF BEING COMPACTED TO THE REQUIRED DENSITY, AND WHICH HAS BEEN APPROVED FOR USE BY THE GEOTECHNICAL ENGINEER.
 OTHER SOIL NOT MEETING THE DEFINITION FOR STRUCTURAL FILL MAY BE APPROVED BY
- OTHER SOIL NOT MEETING THE DEFINITION FOR STRUCTURAL FILL MAY BE APPROVED THE GEOTECHNICAL ENGINEER FOR USE UNDER LIMITED CONDITIONS OR IN LIMITED AREAS.
- STRUCTURAL FILL SHALL GENERALLY BE PLACED AND COMPACTED WHEN THE SOIL'S
 MOISTURE CONTENT IS WITHIN 4 PERCENTAGE POINTS OF THE SOIL'S OPTIMUM MOISTURE
 CONTENT, IN LIFTS NOT TO EXCEED 8 INCHES LOOSE THICKNESS. THE IN-PLACE
 COMPACTED DENSITY SHALL BE AT LEAST 90 PCF. TIGHTER SPECIFICATIONS MAY BE
 REQUIRED FOR CERTAIN AREAS, SOIL TYPES, OR COMPACTION METHODS.
- STRUCTURAL ZONES SHALL INCLUDE ALL AREAS SUBJECT TO DIRECT BEARING PRESSURE PLUS 10 FEET HORIZONTAL PLUS A 1:1 DOWNWARD SLOPE IN ANY AREAS OF FILL.
- ALL SOIL UNDER PAVEMENTS, BUILDINGS, AND WALKWAYS, OR IN STRUCTURAL ZONES
 ASSOCIATED WITH THESE AREAS SHALL BE APPROVED IN-SITU SOIL OR STRUCTURAL FILL,
 COMPACTED TO AT LEAST 95% OF THE SOIL'S MAXIMUM DRY DENSITY (MDD) PER ASTM
 D-698. TIGHTER REQUIREMENTS MAY APPLY FOR CERTAIN AREAS.
- IN THE BUILDING AREA, THE REQUIRED DENSITY OF FILL SHALL BE 100% MDD, EXCEPT THE TOP 12 INCHES OF FILL SHALL BE AT LEAST 98% MDD. WHERE THE BUILDING WILL BE PLACED ON IN-SITU SOIL, THE SOIL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND COMPACTED TO AT LEAST 98% MDD.
- ALL EXCESS OR UNSUITABLE SOIL SHALL BE LEGALLY DISPOSED IN AN OFFSITE OR APPROVED ONSITE LOCATION.
- WHERE LANDSCAPED OR YARD AREAS ABUT EXTERIOR BUILDING WALLS, FINISHED
 GROUND ELEVATIONS ADJACENT TO THE WALL SHALL BE AT LEAST 3 INCHES BELOW THE
 FINISHED FLOOR ELEVATION, AND SHALL SLOPE AWAY FROM THE BUILDING WITH POSITIVE
 DRAINAGE.

TRENCHING AND BACKFILLING

- WHERE ROCK OR OTHER HARD MATERIAL OCCURS AT THE DESIGNED TRENCH BOTTOM, OVEREXCAVATE TRENCH DEPTH 6 INCHES AND REPLACE OVEREXCAVATION MATERIAL WITH #67 STONE BEDDING.
- WHERE THE DESIGNED TRENCH BOTTOM CONSISTS OF UNSTABLE BEARING SOIL, UNDERCUT TRENCH BOTTOM AND REPLACE UNDERCUT MATERIAL IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- BACKFILL SOIL SHALL BE STRUCTURAL FILL, PLACED AND COMPACTED IN ACCORDANCE WITH REQUIREMENTS FOR THE SPECIFIC AREA OF WORK, WITHOUT DAMAGING OR DISPLACING PIPE OR STRUCTURES

STORM DRAINAGE SYSTEM

- * STORM DRAINAGE STRUCTURES SHALL CONFORM TO ZEBULON AND NCDOT STANDARDS, AND MAY BE CONSTRUCTED OF EITHER SOLID MASONRY OR PRE-CAST CONCRETE.

 "KNOCK-OUT" TYPE PRE-CAST STRUCTURES SHALL NOT BE USED WHERE THE DESIGNED PIPE CONFIGURATION WOULD REQUIRE REMOVAL OF STRUCTURAL CORNERS OR ALTERATION OF DESIGNED PIPE ENTRY ANGLES.
- * STORM DRAINAGE PIPE LENGTHS SHOWN ARE APPROXIMATE, AS MEASURED FROM THE CENTER OF DRAINAGE STRUCTURES, AND TO THE END OF ANY FLARED END SECTION (FES), AS APPLICABLE.
- * CONTRACTOR SHALL VERIFY AND COORDINATE EXACT POSITIONING OF STORM DRAINAGE PIPING AND STRUCTURES, AND SHALL MAKE ADJUSTMENTS AS NEEDED TO PROVIDE PROPER CONNECTIONS, STRUCTURE LOCATIONS, ORIENTATIONS, DIMENSIONS, ELEVATIONS, FRAME PLACEMENT, AND SURFACE DRAINAGE. REFER TO STORM DRAINAGE STRUCTURE DETAILS FOR DIMENSIONS, OFFSETS, CLEARANCES, SETBACKS FROM CURB, AND OTHER REQUIREMENTS. MODIFY STRUCTURES AS NEEDED TO ACCOMMODATE LARGE-DIAMETER PIPING, MULTIPLE PIPE PENETRATIONS, AND PIPE CONNECTION ANGLES.
- * STORM DRAINAGE PIPING SHALL BE REINFORCED CONCRETE PIPE (RCP), CLASS III,
 CONFORMING TO ASTM C76, UNLESS OTHERWISE SPECIFIED. ALL JOINTS SHALL BE FULLY
 SEALED USING PREFORMED FLEXIBLE BUTYL RUBBER SEALING COMPOUND.

SURFACE DRAINAGE

- * ALL SPOT ELEVATIONS SHOWN ARE FINISHED SURFACE ELEVATIONS. SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER ELEVATION CONTOURS. ALL ELEVATIONS SHOWN ON CURB AND GUTTER REFER TO TOP OF CURB, UNLESS OTHERWISE INDICATED.
- * ALL FINISHED PAVEMENT AND YARD SURFACES SHALL BE FINE-GRADED AND FINISHED TO HAVE POSITIVE SURFACE DRAINAGE TO A FREE-FLOWING DRAINAGE OUTLET, WITH NO IRREGULARITIES OR DEPRESSIONS THAT WOULD CAUSE UNINTENDED WATER PONDING.
- * USE REVERSE-PITCH CURB AND GUTTER WHERE ADJACENT PAVEMENT SLOPES AWAY FROM CURB, AND STANDARD-PITCH CURB AND GUTTER ELSEWHERE, UNLESS OTHERWISE NOTED. PROVIDE POSITIVE DRAINAGE ALONG AND FROM ALL GUTTERS.
- * TIE-INS TO EXISTING PAVEMENT, CURBS, WALKS, ETC. SHALL BE MADE WITH NEAT EDGES AND SMOOTH, GRADUAL TRANSITIONS THAT ARE SAFE, FUNCTIONAL, DURABLE, AND VISUALLY ACCEPTABLE TO THE OWNER AND REVIEW AUTHORITIES.

ACCESSIBILITY

- FINISHED WALKWAY ELEVATIONS ABUTTING EXTERIOR DOORWAY THRESHOLDS SHALL BE ONE-FOURTH INCH BELOW THE ADJOINING FINISHED FLOOR ELEVATION. EXTERIOR PADS AND WALKWAYS SHALL SLOPE AWAY FROM THE BUILDING AT A SLOPE NO LESS THAN 1.0% AND NO GREATER THAN 2.0%. SIDEWALKS, CROSSWALKS, AND OTHER WALKWAYS SHALL NOT EXCEED 2.0% CROSS-SLOPE.
- NO PORTION OF ANY HANDICAP ACCESSIBLE ROUTE SHALL EXCEED 2.0% CROSS-SLOPE OR 5.0% LONGITUDINAL SLOPE.
- NO PORTION OF ANY HANDICAP PARKING SPACE OR ADJOINING ACCESS AISLE SHALL EXCEED 2.0% SLOPE IN ANY DIRECTION.

BMP NOTES

• SEE THE DETAIL SHEET FOR SPECIFICS REGARDING THE BIORETENTION DEVICE.

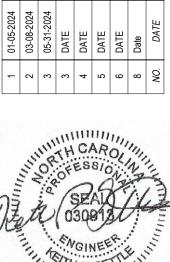
NOTES

1. SEE SHEETS C6 AND C7 FOR STORM DRAIN SCHEDULE.

GRAPHIC SCALE 1"=50'
0' 25' 50' 100' 200

Gettle Engineering and Design RPG 3616 Waxwing Court, Wake Forest, North Carolina 27587 (919) 210-3934 Firm License P-253

 Δ

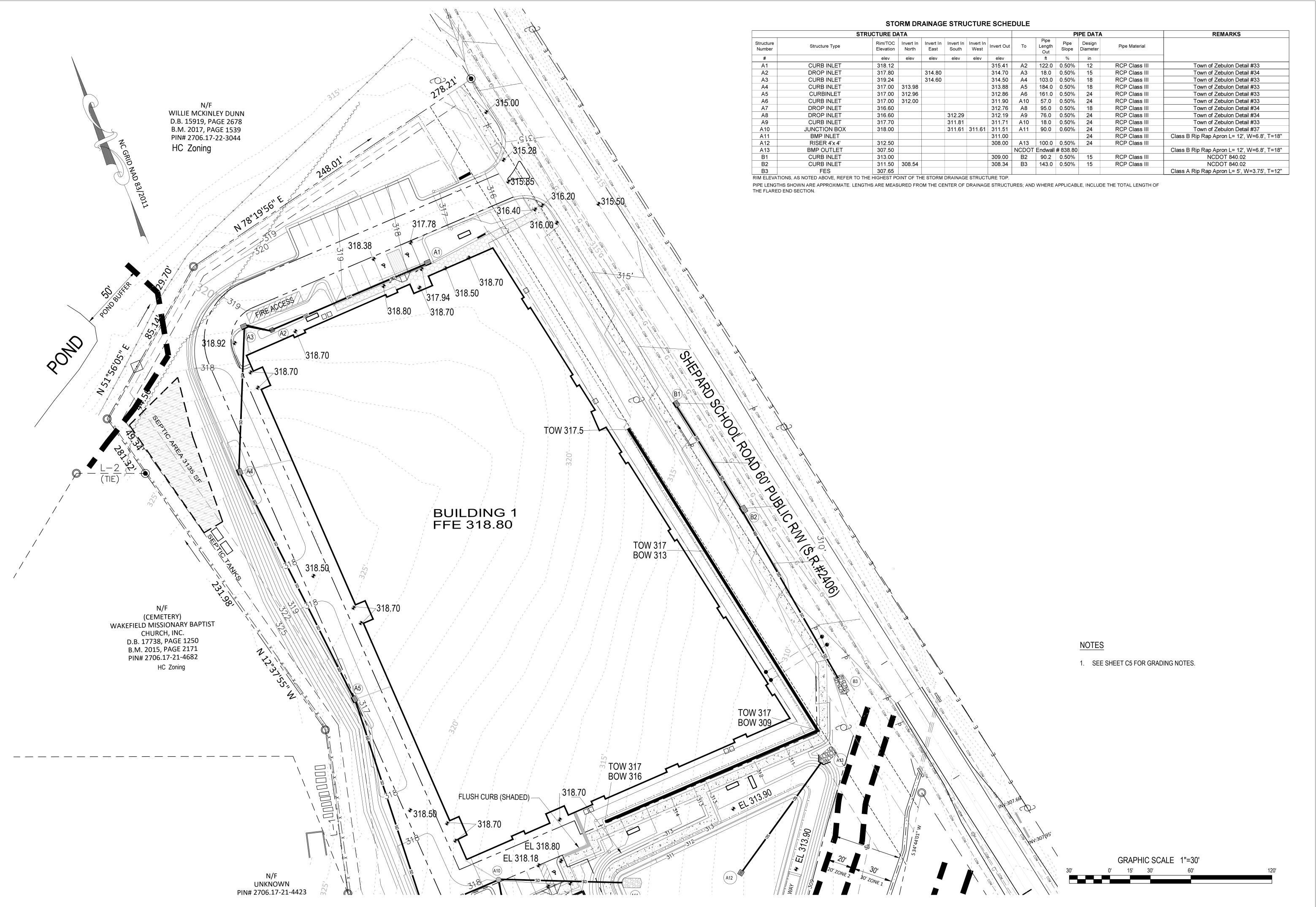


Grading Overall torageMax (1098359) 901 Proctor Street

Project No. 23001

Dwg No.

C5

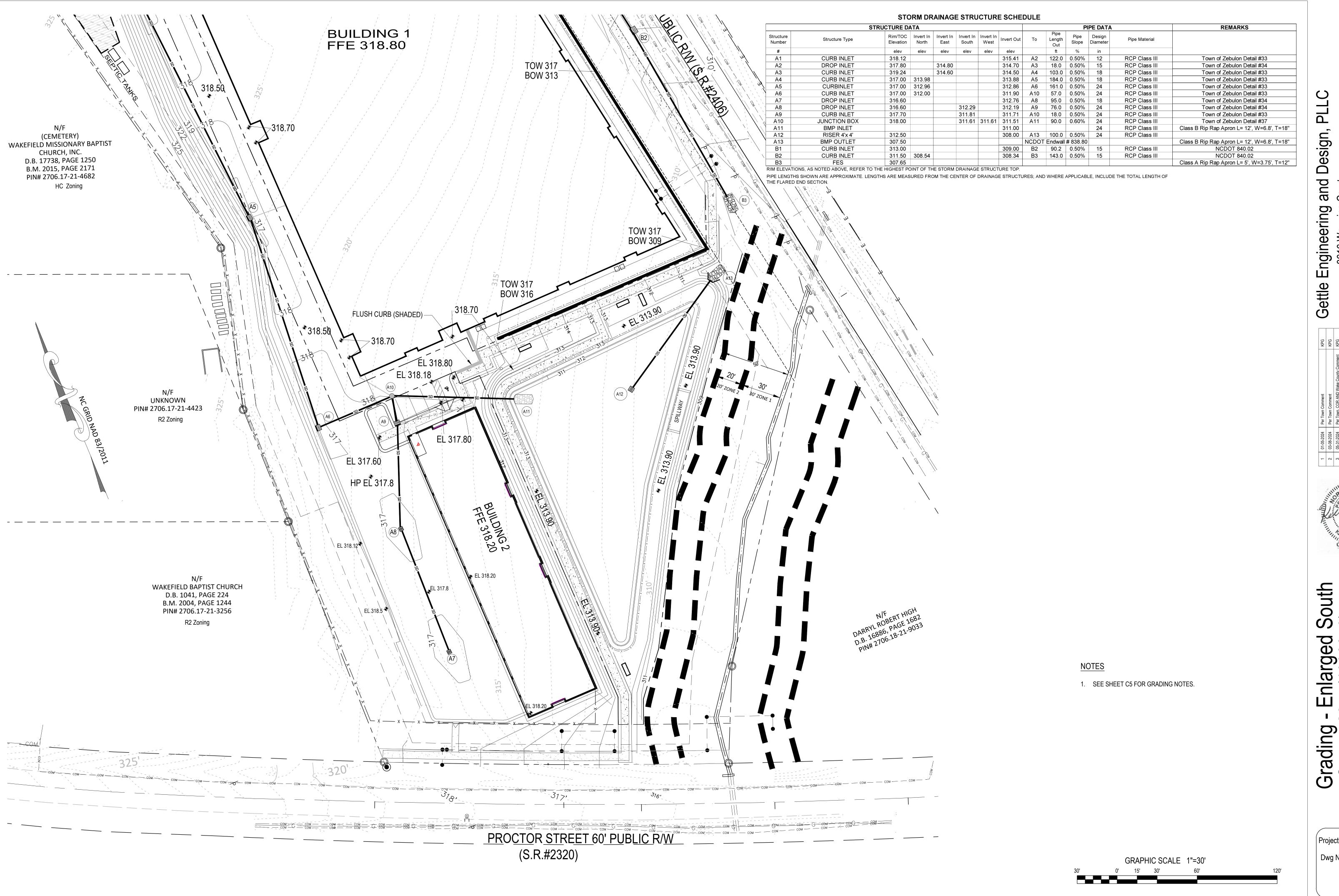


PLLC Gettle Engineering and Design, P 3616 Waxwing Court, Wake Forest, North Carolina 27587 (919) 210-3934 Firm License P-2538

Grading - Enlarged North StorageMax (1098359) 901 Proctor Street Zebulon, Wake County, North Carolina

Project No. 23001

9 Dwg No.



Gettle Engineering and E 3616 Waxwing Court, Wake Forest, North Carolina 2 (919) 210-3934 Firm License

- 2 k k 4 r 8 8 8

Enlarged South Nax (1098359)

StorageMax 901 Procto Zebulon, Wake Coun

Project No. 23001

Dwg No.

7

UTILITY SPECIFICATIONS ONE-CALL SERVICES, AND MUST BE CONTACTED SEPARATELY. PROJECT WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS. THE N.C. SUPPLEMENT TO THE MUTCD. ANY REGULATORY AGENCY VISITORS, AND THE GENERAL PUBLIC. DIRECTIVES BY THE UTILITY INSPECTOR. CLOSE-OUT DOCUMENTS. WHERE ROCK OR OTHER HARD MATERIAL OCCURS AT THE DESIGNED TRENCH BOTTOM, RECOMMENDATIONS. REQUIREMENTS. DO NOT OPERATE WATER SYSTEM VALVES WITHOUT PERMISSION OF THE WATER AUTHORITY REQUIRED FOR ACCEPTANCE. UTILITY SPECIFICATIONS (cont.) RUBBER GASKETS PER AWWA C111. REQUIREMENTS OF THAT AUTHORITY. 1 CONTRACTOR SHALL SUCCESSFULLY TEST ALL WATER MAINS FOR WATER LEAKAGE AND WATER QUALITY

WILLIE MCKINLEY DUNN

B.M. 2017, PAGE 1539

PIN# 2706.17-22-3044

BUILDING 1

FFE 318.80

(S.R.#2320)

HC Zoning

(CEMETERY)

WAKEFIELD MISSIONARY BAPTIST

CHURCH, INC. B.M. 2015, PAGE 2171

PIN# 2706.17-21-4682

HC Zoning

UNKNOWN

PIN# 2706.17-21-4423

WAKEFIELD BAPTIST CHURCH D.B. 1041, PAGE 224 B.M. 2004, PAGE 1244 PIN# 2706.17-21-3256

R2 Zoning

INFORMATION ABOUT EXISTING UNDERGROUND FACILITIES AND SUBSURFACE CONDITIONS INDICATED ON THESE DRAWINGS IS NOT BASED ON AN EXHAUSTIVE INVESTIGATION OF SUCH FACILITIES OR CONDITIONS, AND THE ENGINEER MAKES NO WARRANTY TO ANY PARTY REGARDING THEM. EXISTING UTILITY LINE LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE, AND ACTUAL UTILITIES AND CONDITIONS MAY DIFFER FROM THOSE INDICATED. IF DIFFERING UTILITIES OR CONDITIONS EXIST, THEY MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT WORK, AND MAY IMPACT THE PROJECT SCOPE AND TIME REQUIREMENTS.

- PROTECTION AND SAFETY

 * PRIOR TO BEGINNING WORK, AND AS NEEDED DURING THE COURSE OF PROJECT WORK, CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY LOCATION SERVICES AND UTILITY PROVIDERS TO REASONABLY VERIFY THE LOCATION OF ALL KNOWN OR SUSPECTED UTILITIES, IN ACCORDANCE WITH STATE REGULATIONS. CONTRACTOR IS ADVISED THAT SOME UTILITY PROVIDERS DO NOT SUBSCRIBE TO
- CONTRACTOR SHALL PROVIDE ADEQUATE MEANS AND METHODS FOR PROTECTION OF ALL EXISTING UTILITIES AND SITE FEATURES WHICH ARE INTENDED TO REMAIN IN SERVICE OR IN PLACE. CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES DURING THE COURSE OF
- REQUIREMENTS, AND PROJECT-SPECIFIC SAFETY CONSIDERATIONS. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY PROGRAMS AND MEASURES ON THE PROJECT SITE OR OTHERWISE RELATING TO THE PROJECT WORK, AND SHALL COMPLY WITH ALL SAFETY CODES AND REGULATIONS APPLICABLE THERETO, FOR THE PROTECTION OF WORKERS.
- ALL WATER SYSTEM AND SANITARY SEWER WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING: 1 REQUIREMENTS OF THE CITY OF RALEIGH, INCLUDING THE LATEST EDITION OF CONSTRUCTION STANDARDS AND SPECIFICATIONS, CONSTRUCTION DETAILS, POLICIES AND PROCEDURES, AND FIELD
- 2 REGULATIONS OF NCDENR-DIVISION OF WATER QUALITY, INCLUDING NCAC 2T REGULATIONS AND MINIMUM DESIGN CRITERIA FOR THE PERMITTING OF GRAVITY SEWERS. REGULATIONS OF NCDENR-PUBLIC WATER SUPPLY, RULES GOVERNING PUBLIC WATER SYSTEMS.
- 4 STREET RIGHT-OF-WAY ENCROACHMENT PERMIT REQUIREMENTS, AS APPLICABLE.
- 5 OSHA REQUIREMENTS RELATED TO SAFETY. 6 REQUIREMENTS OF THE N.C PLUMBING CODE.
- NOTIFY THE ENGINEER AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING WATERLINE OR SANITARY SEWER WORK. THE ENGINEER MUST OBSERVE CONNECTIONS, INSTALLATION, BACKFILLING, AND TESTING WORK, IN ORDER TO PROVIDE NECESSARY PROJECT CERTIFICATIONS AND
- NOTIFY THE APPLICABLE UTILITY AND ROADWAY AUTHORITIES IN ACCORDANCE WITH THEIR REQUIREMENTS PRIOR TO BEGINNING UTILITY WORK.
- NOTIFY THE GEOTECHNICAL ENGINEER AND TESTING SERVICE AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING TRENCHING OR BACKFILLING WORK.
- OVEREXCAVATE TRENCH DEPTH 6 INCHES AND REPLACE OVEREXCAVATION MATERIAL WITH #67 STONE
- WHERE THE DESIGNED TRENCH BOTTOM CONSISTS OF UNSUITABLE BEARING SOIL, UNDERCUT TRENCH BOTTOM AND REPLACE UNDERCUT MATERIAL IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S
- BACKFILL SOIL SHALL BE SUITABLE MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. BACKFILL SOIL SHALL BE PLACED IN LOOSE LIFTS OF 8 INCH MAXIMUM THICKNESS AND COMPACTED TO
- 98% OF THE SOIL'S MAXIMUM DRY DENSITY, WITHOUT DAMAGING OR DISPLACING PIPE. INSTALL MARKING TAPE OR TRACER WIRE OVER UTILITY LINES AS REQUIRED BY THE LOCAL UTILITY

PIPING. FITTINGS. GASKETS. AND OTHER MATERIALS SHALL BE KEPT CLEAN WHILE BEING STORED AND DURING CONSTRUCTION ACTIVITIES. PIPE BUNDLES SHALL BE STORED ON FLAT SURFACES WITH UNIFORM SUPPORT, AND PROTECTED FROM PROLONGED EXPOSURE TO SUNLIGHT WITH A COVERING ALLOWING AIR FLOW UNDERNEATH. GASKETS SHALL NOT BE EXPOSED TO OIL, GREASE, OZONE, EXCESSIVE HEAT OR DIRECT SUNLIGHT. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR STORAGE AND HANDLING OF ALL MATERIALS.

- PROVIDE ALL WATER SYSTEM MATERIALS IN ACCORDANCE WITH LOCAL WATER AUTHORITY
- INSTALL WATERLINES TO PROVIDE 36" COVER TO FINISHED GRADE, UNLESS OTHERWISE SHOWN OR APPROVED BY THE ENGINEER AND INSPECTOR.
- ALL WATERLINE BENDS, CROSSES, TEES, AND ENDS SHALL BE RESTRAINED USING CONCRETE BLOCKING OR A MECHANICAL JOINT WEDGE-ACTION RESTRAINT SYSTEM RATED FOR 350 PSI.
- CONTRACTOR SHALL COORDINATE EXACT FIRE HYDRANT, WATER METER, AND BACKFLOW PREVENTER LOCATIONS WITH WATER AUTHORITY INSPECTOR PRIOR TO INSTALLATION.

BACKFLOW PREVENTER ASSEMBLIES AND ENCLOSURES SHALL CONFORM TO ALL LOCAL WATER AUTHORITY REQUIREMENTS, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE INITIAL TESTING AND CERTIFICATIONS AS

- WATER MAINS SHALL BE INSTALLED AND MADE OPERATIONAL AS SOON AS PRACTICAL TO PROVIDE
- ACTIVE FIRE HYDRANT SERVICE DURING BUILDING CONSTRUCTION. COORDINATE TYPE AND LOCATION OF HYDRANTS, FIRE DEPARTMENT CONNECTIONS, AND OTHER FIRE PROTECTION SYSTEM COMPONENTS WITH LOCAL FIRE CODE OFFICIAL PRIOR TO INSTALLATION.
- SANITARY SEWER MAIN PIPING SHALL BE DUCTILE IRON PIPE PER AWWA C151, PRESSURE CLASS 350, WITH INTERIOR EPOXY LINING AND EXTERIOR BITUMINOUS SEAL. JOINTS SHALL BE PUSH-ON TYPE WITH
- SANITARY SEWER MAIN PIPING SHALL BE PVC PIPE PER ASTM D3034, SDR 35. JOINTS SHALL BE PUSH-ON TYPE WITH RUBBER GASKETS PER ASTM F477. SANITARY SEWER MAINS SHALL BE INSTALLED WITH 36 INCHES MINIMUM COVER TO FINISHED GRADE,
- SANITARY SEWER SERVICE LINES AND CLEANOUTS SHALL BE INSTALLED IN ACCORDANCE WITH THE N.C. PLUMBING CODE, AND HAVE 24 INCHES MINIMUM COVER TO FINISHED GRADE. SERVICE LINES SHALL MAINTAIN MAXIMUM SERVICE DEPTH USING A 2.1% SLOPE UNLESS OTHERWISE SPECIFIED. SERVICE PIPE AND FITTINGS WITHIN PUBLIC STREET RIGHTS-OF-WAY SHALL BE CAST IRON WITH
- GASKETED JOINTS, AND IN OTHER AREAS SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS, EXCEPT ALL CLEANOUTS SHALL BE FITTED WITH THREADED BRONZE PLUGS. * SERVICE LINE CLEANOUTS IN VEHICULAR AREAS SHALL BE TRAFFIC BEARING CLEANOUTS.

FOR CONNECTIONS TO EXISTING UTILITY AND DRAINAGE LINES, CONTRACTOR SHALL VERIFY EXISTING PIPE SIZE AND MATERIAL, AND PROVIDE APPROPRIATE CONNECTION FITTINGS. ANY CONNECTION TO EXISTING UTILITES, OR ANY UTILITY SERVICE INTERRUPTION, SHALL BE FIRST COORDINATED WITH THE GOVERNING UTILITY AUTHORITY, AND PERFORMED IN ACCORDANCE WITH THE

- THE GEOTECHNICAL ENGINEER SHALL PROVIDE MATERIAL AND DENSITY TESTING DURING THE COURSE OF THE WORK. PRIOR TO PLACEMENT OF ANY BASE OR PAVEMENT, CONTRACTOR SHALL PROVIDE PROOF-ROLLING OF ALL TRENCH AREAS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER. PRIOR TO ANY SANITARY SEWER OR WATER SYSTEM IMPROVEMENTS BEING PLACED INTO SERVICE:
- IN ACCORDANCE WITH CITY OF RALIEGH AND NCDENR REQUIREMENTS. CONTRACTOR SHALL SUCCESSFULLY TEST ALL SANITARY SEWER MAINS FOR DEFLECTION AND LEAKAGE, AND TEST ALL SANITARY MANHOLES FOR LEAKAGE, IN ACCORDANCE WITH CITY OF RALEIGH AND NCDENR
- 3 CONTRACTOR SHALL PERFORM VIDEO INSPECTION OF INSTALLED SANITARY SEWER MAINS AND PROVIDE DOCUMENTATION PER LOCAL REQUIREMENTS. 4 CONTRACTOR SHALL PROVIDE TO ENGINEER A SET OF MARKED UP DRAWINGS SHOWING UTILITY
- CHANGES, DIMENSIONAL ADJUSTMENTS, DISCOVERED SUBSURFACE UTILITIES, AND OTHER AS-BUILT 5 CONTRACTOR SHALL PROVIDE DOCUMENTATION OF ALL TESTING RESULTS TO ENGINEER. ALL IMPROVEMENTS SHALL PASS FINAL INSPECTION BY ENGINEER AND THE UTILITY AUTHORITY. ENGINEER SHALL SUBMIT ALL CERTIFICATIONS AND OTHER CLOSE-OUT DOCUMENTS TO APPLICABLE LOCAL AND STATE AUTHORITIES.
- CONTRACTOR SHALL PROVIDE PRIMARY COORDINATION WITH UTILITY SERVICE PROVIDERS FOR BUILDING UTILITY SERVICES. THIS WORK SHALL INCLUDE MAKING APPLICATIONS FOR SERVICE, COORDINATING AND SCHEDULING WORK BY OTHERS, VERIFYING ROUTINGS AND EQUIPMENT LOCATIONS. FURNISHING AND INSTALLING CONDUIT AND PADS, AND RELATED WORK AS NEEDED. CONTRACTOR SHALL PROVIDE PROPER RESTORATION AND CLEAN-UP OF ALL AREAS DISTURBED BY UTILITY CONSTRUCTION.

STANDARD UTILITY NOTES.

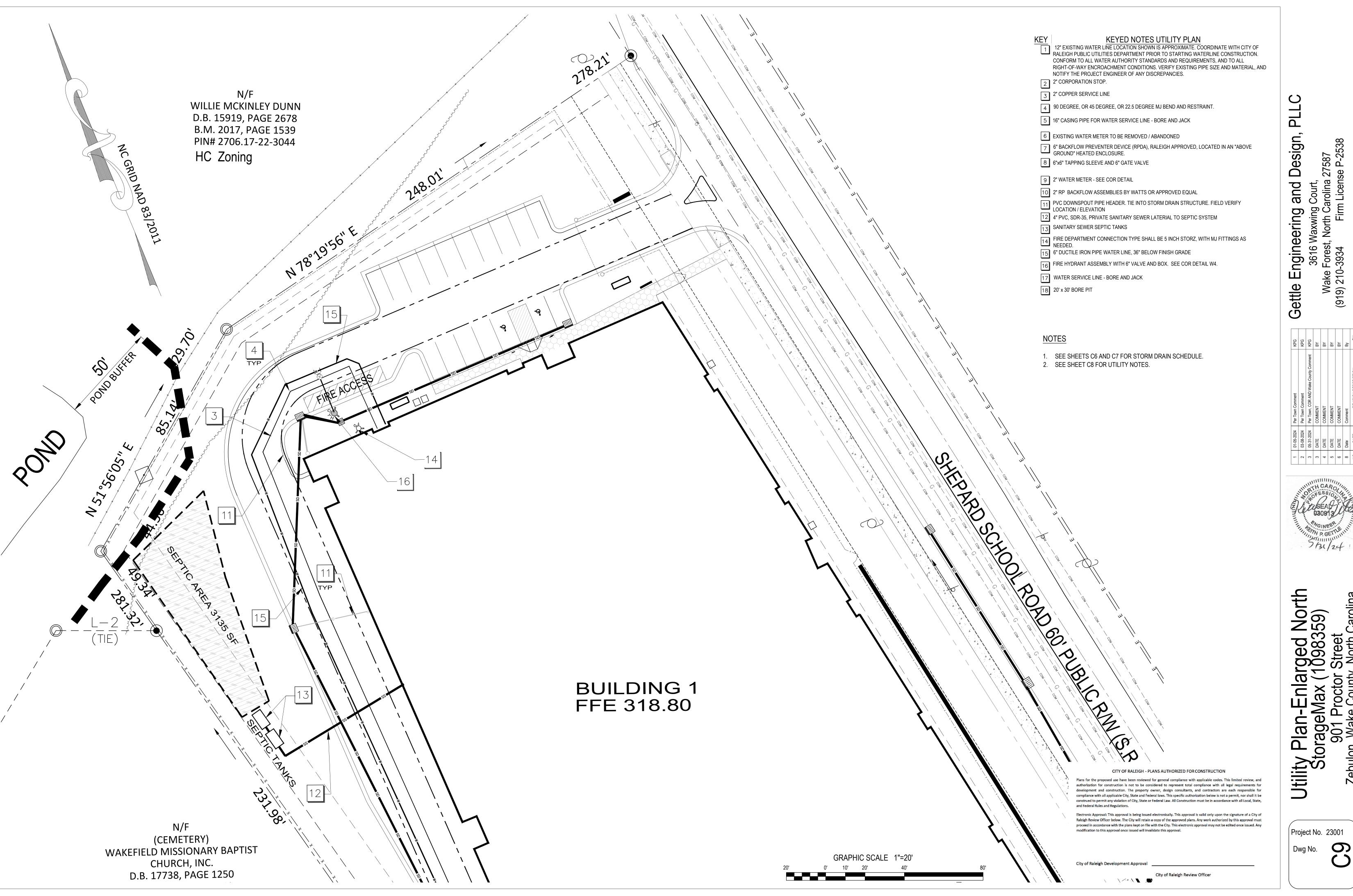
- 1. All materials & construction methods shall be in accordance with City of Raleigh design standards, details & specifications (reference: CORPUD Handbook, current edition)
- 2. Utility separation requirements:
 - a) A distance of 100' shall be maintained between sanitary sewer & any private or public water supply source such as an impounded reservoir used as a source of drinking water. If adequate lateral separation cannot be achieved, ferrous sanitary sewer pipe shall be specified & installed to waterline specifications. However, the minimum separation shall not be less than 25' from a private well or 50' from a public well
 - b) When installing water &/or sewer mains, the horizontal separation between utilities shall be 10'. If this separation cannot be maintained due to existing conditions, the variation allowed is the water main in a separate trench with the elevation of the water main at least 18" above the top of the sewer & must be approved by the Public Utilities Director. All distances are measured from outside diameter to outside
 - c) Where it is impossible to obtain proper separation, or anytime a sanitary sewer passes over a watermain, DIP materials or steel encasement extended 10' on each side of crossing must be specified & installed to waterline
 - d) 5.0° minimum horizontal separation is required between all sanitary sewer & storm sewer facilities, unless DIP material is specified for sanitary sewer
 - e) Maintain 18" min. vertical separation at all watermain & RCP storm drain crossings; maintain 18" min. vertical separation at all sanitary sewer & RCP storm drain crossings. Where adequate separations cannot be achieved, specify DIP materials & a concrete cradle having 6" min. clearance (per CORPUD details W-41 & S-49)
- f) All other underground utilities shall cross water & sewer facilities with 18" min. vertical separation required 3. Any necessary field revisions are subject to review & approval of an amended plan &/or profile by the City of
- Raleigh Public Utilities Department prior to construction 4. Developer shall provide 30 days advance written notice to owner for any work required within an existing City of
- Raleigh Utility Easement traversing private property 5. Contractor shall maintain continuous water & sewer service to existing residences & businesses throughout
- construction of project. Any necessary service interruptions shall be preceded by a 24 hour advance notice to the City of Raleigh Public Utilities Department 6. 3.0' minimum cover is required on all water mains & sewer forcemains. 4.0' minimum cover is required on all reuse
- 7. It is the developer's responsibility to abandon or remove existing water & sewer services not being used in redevelopment of a site unless otherwise directed by the City of Raleigh Public Utilities Department. This includes
- abandoning tap at main & removal of service from ROW or easement per CORPUD Handbook procedure 8. Install 3/4" copper* water services with meters located at ROW or within a 2'x2' Waterline Easement immediately adjacent. NOTE: it is the applicant's responsibility to properly size the water service for each connection to provide
- adequate flow & pressure 9. Install 4" PVC* sewer services @ 1.0% minimum grade with cleanouts located at ROW or easement line & spaced every 75 linear feet maximum
- 10. Pressure reducing valves are required on all water services exceeding 80 psi; backwater valves are required on all sanitary sewer services having building drains lower than 1.0' above the next upstream manhole
- 11. All environmental permits applicable to the project must be obtained from NCDWQ, USACE &/or FEMA for any riparian buffer, wetland &/or floodplain impacts (respectively) prior to construction
- 12. NCDOT / Railroad Encroachment Agreements are required for any utility work (including main extensions & service
- taps) within state or railroad ROW prior to construction
- 13. Grease Interceptor / Oil Water Separator sizing calculations & installation specifications shall be approved by the RW FOG Program Coordinator prior to issuance of a UC / Bldg Permit. Contact (919) 996-4516 or <u>fog@raleighnc.gov</u> for more information
- 14. Cross-connection control protection devices are required based on degree of health hazard involved as listed in Appendix-B of the Rules Governing Public Water Systems in North Carolina. These guidelines are the minimum requirements. The devices shall meet American Society of Sanitary Engineering (ASSE) standards or be on the University of Southern California approval list. The devices shall be installed and tested (both initial and periodic testing thereafter) in accordance with the manufacturer's recommendations or the local cross-connection control program, whichever is more stringent. A Certificate of Compliance shall also be obtained from the RW Cross-Connection Coordinator for each device prior to issuance of a UC / Bldg Permit. Contact (919) 996-5923 or

1. SEE SHEETS C6 AND C7 FOR STORM DRAIN SCHEDULE.

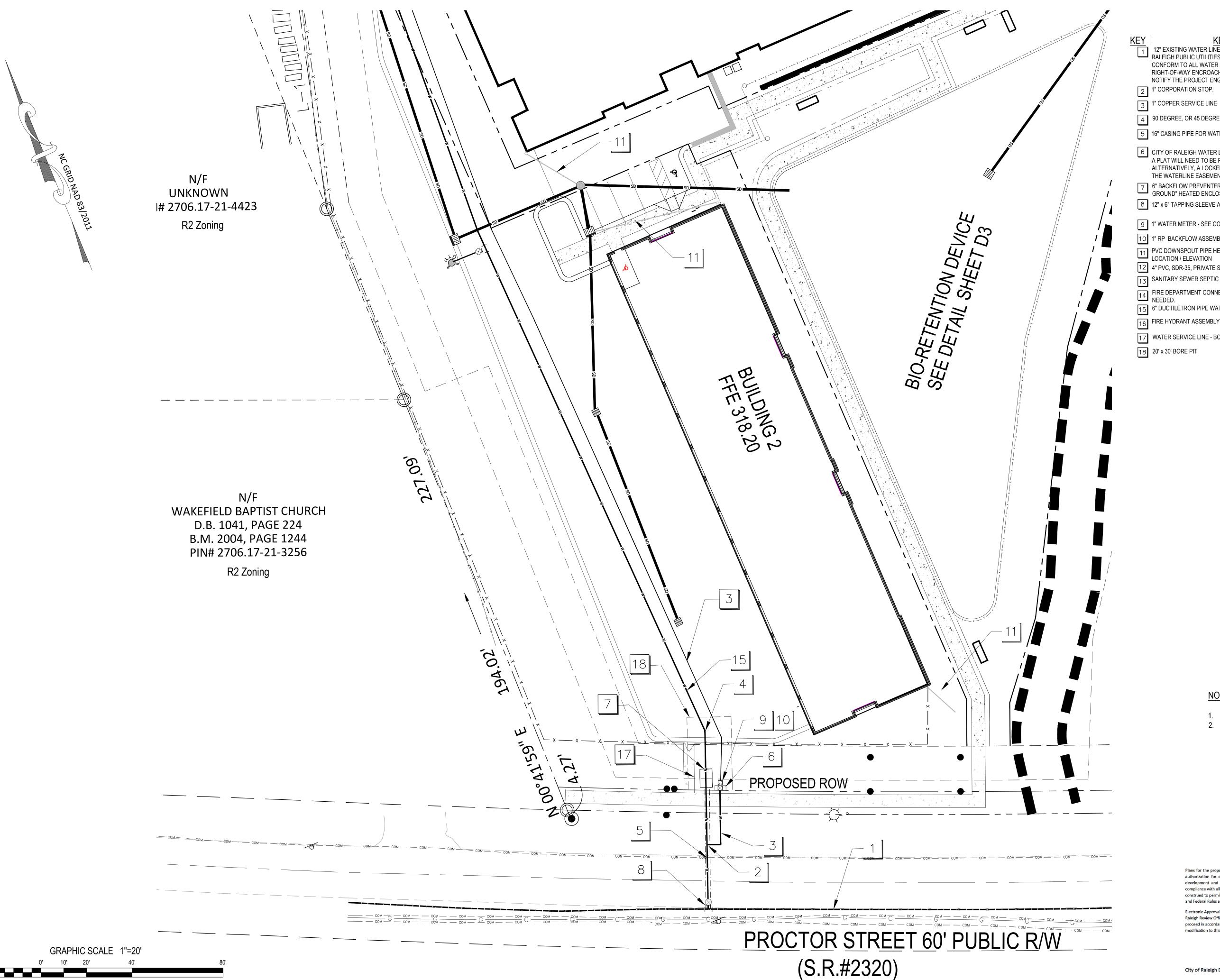
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State,

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.



PLLC Design, Gettle Engineering and



KEYED NOTES UTILITY PLAN

12" EXISTING WATER LINE LOCATION SHOWN IS APPROXIMATE. COORDINATE WITH CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO STARTING WATERLINE CONSTRUCTION. CONFORM TO ALL WATER AUTHORITY STANDARDS AND REQUIREMENTS, AND TO ALL RIGHT-OF-WAY ENCROACHMENT CONDITIONS. VERIFY EXISTING PIPE SIZE AND MATERIAL, AND NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES.

2 1" CORPORATION STOP.

90 DEGREE, OR 45 DEGREE, OR 22.5 DEGREE MJ BEND AND RESTRAINT.

5 16" CASING PIPE FOR WATER SERVICE LINE - BORE AND JACK

6 CITY OF RALEIGH WATER LINE EASEMENT
A PLAT WILL NEED TO BE RECORDED TO DEDICATE THE WATERLINE EASEMENT.
ALTERNATIVELY, A LOCKED DEED TEMPLATE CAN BE USED TO DEDICATE THE WATERLINE EASEMENT BY DEED.

6" BACKFLOW PREVENTER DEVICE (RPDA), RALEIGH APPROVED, LOCATED IN AN "ABOVE GROUND" HEATED ENCLOSURE.

8 12" x 6" TAPPING SLEEVE AND 6" GATE VALVE

9 1" WATER METER - SEE COR DETAIL

10 1" RP BACKFLOW ASSEMBLIES BY WATTS OR APPROVED EQUAL

PVC DOWNSPOUT PIPE HEADER. TIE INTO STORM DRAIN STRUCTURE. FIELD VERIFY LOCATION / ELEVATION

12 4" PVC, SDR-35, PRIVATE SANITARY SEWER LATERIAL TO SEPTIC SYSTEM

13 SANITARY SEWER SEPTIC TANKS

FIRE DEPARTMENT CONNECTION TYPE SHALL BE 5 INCH STORZ, WITH MJ FITTINGS AS NEEDED.

15 6" DUCTILE IRON PIPE WATER LINE, 36" BELOW FINISH GRADE

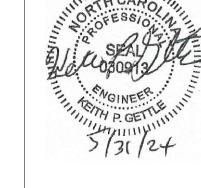
16 FIRE HYDRANT ASSEMBLY WITH 6" VALVE AND BOX. SEE COR DETAIL W4.

17 WATER SERVICE LINE - BORE AND JACK

18 20' x 30' BORE PIT

PLLC

Gettle Engineering and Design,



<u>NOTES</u>

1. SEE SHEETS C6 AND C7 FOR STORM DRAIN SCHEDULE.

2. SEE SHEET C8 FOR UTILITY NOTES.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

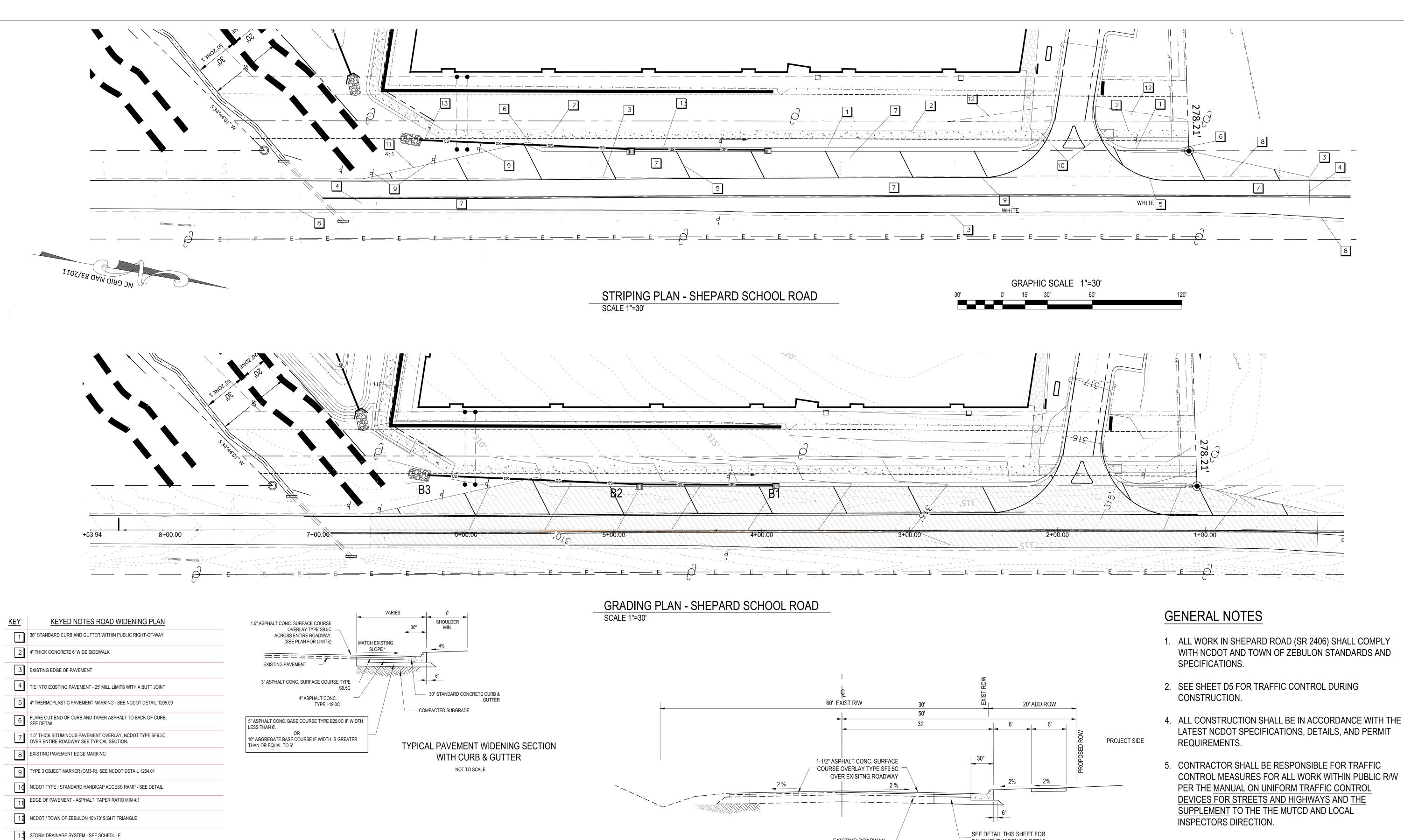
authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State,

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval

City of Raleigh Review Officer

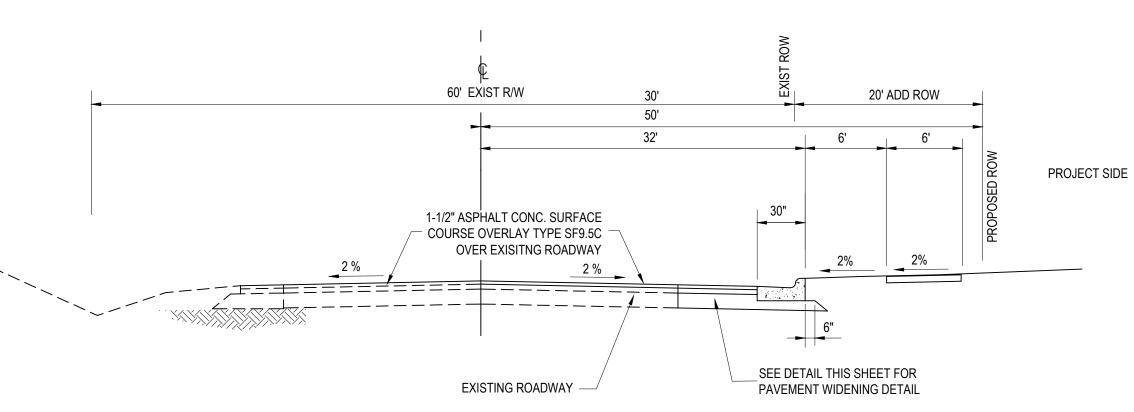
South Enlarged ax (1098359) Utility Pi



`BULLNOSE' END OF CURB NEW 30" CONCRETE **CURB & GUTTER** NEW ASPHALT TAPER MIN 4:1 EXPANSION NEW ASPHALT PAVING

PAVEMENT

END OF CURB FLARE DETAIL NOT TO SCALE



TYPICAL SECTION - SHEPARD SCHOOL ROAD NOT TO SCALE

		51	ORWI D	RAINAC	3E 21K	KUC I UI	RE SCH	EDULE	•				
	S	TRUCTURE DA	ATA								PIPE DAT	Ά	REMARKS
Structure Number	Structure Type	Rim/TOC Elevation	Invert In North	Invert In East	Invert In South	Invert In West	Invert Out	То	Pipe Length Out	Pipe Slope	Design Diameter	Pipe Material	
#		elev	elev	elev	elev	elev	elev		ft	%	in		
B1	CURB INLET	313.00					309.00	B2	90.2	0.50%	15	RCP Class III	NCDOT 840.02
B2	CURB INLET	311.50	308.54				308.34	B3	143.0	0.50%	15	RCP Class III	NCDOT 840.02
B3	FES	307.65											Class A Rip Rap Apron L= 5', W=3.75', T=12"

PIPE LENGTHS SHOWN ARE APPROXIMATE. LENGTHS ARE MEASURED FROM THE CENTER OF DRAINAGE STRUCTURES; AND WHERE APPLICABLE, INCLUDE THE TOTAL LENGTH OF THE FLARED END SECTION.

- 6. ALL PERMANENT PAVEMENT MARKINGS AND STRIPING WITHIN SHEPARD ROAD RIGHT-OF-WAY SHALL BE THERMOPLASTIC IN ACCORDANCE WITH THE LATEST EDITION OF NCDOT SPECIFICATIONS SECTION 1205. ALL ONSITE MARKINGS AND STRIPING SHALL BE RETROREFLECTIVE PAINT.
- 7. ALL DIMENSIONS TO PAVEMENT MARKING LINES ARE TO THE CENTER OF SINGLE LINES OR TO THE CENTER BETWEEN DOUBLE LINES.
- 8. THE CONTRACTOR SHALL VERIFY ALL LANE MARKINGS WITH NCDOT PRIOR TO INSTALLATION.

Gettle Engineering and Design,

 KPG

 KPG

 BY

 BY

 BY

 BY

 BY

 BY



School

59)

pard 0983

Widen tor Road

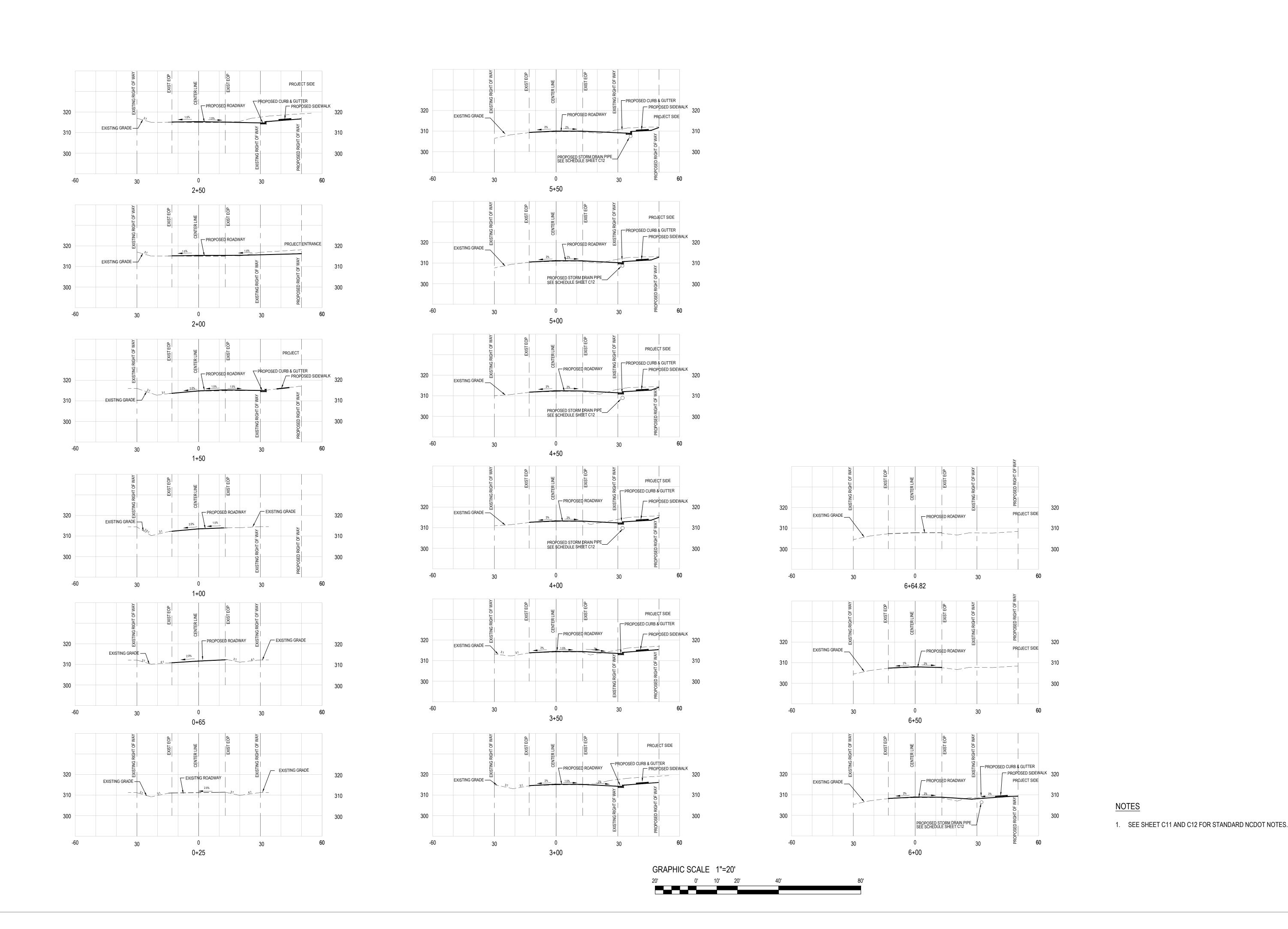
- WITH NCDOT AND TOWN OF ZEBULON STANDARDS AND
- 4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST NCDOT SPECIFICATIONS, DETAILS, AND PERMIT
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL MEASURES FOR ALL WORK WITHIN PUBLIC R/W PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE
- 6. ALL PERMANENT PAVEMENT MARKINGS AND STRIPING WITHIN SHEPARD ROAD RIGHT-OF-WAY SHALL BE THERMOPLASTIC IN ACCORDANCE WITH THE LATEST EDITION OF NCDOT SPECIFICATIONS SECTION 1205. ALL
- THE CENTER OF SINGLE LINES OR TO THE CENTER

Gettle Engineering and Design, F 3616 Waxwing Court, Wake Forest, North Carolina 27587 (919) 210-3934 Firm License P-2538 Gettle

PLLC



& Profile 1098359) Street , North Carolina Schoo Shepard



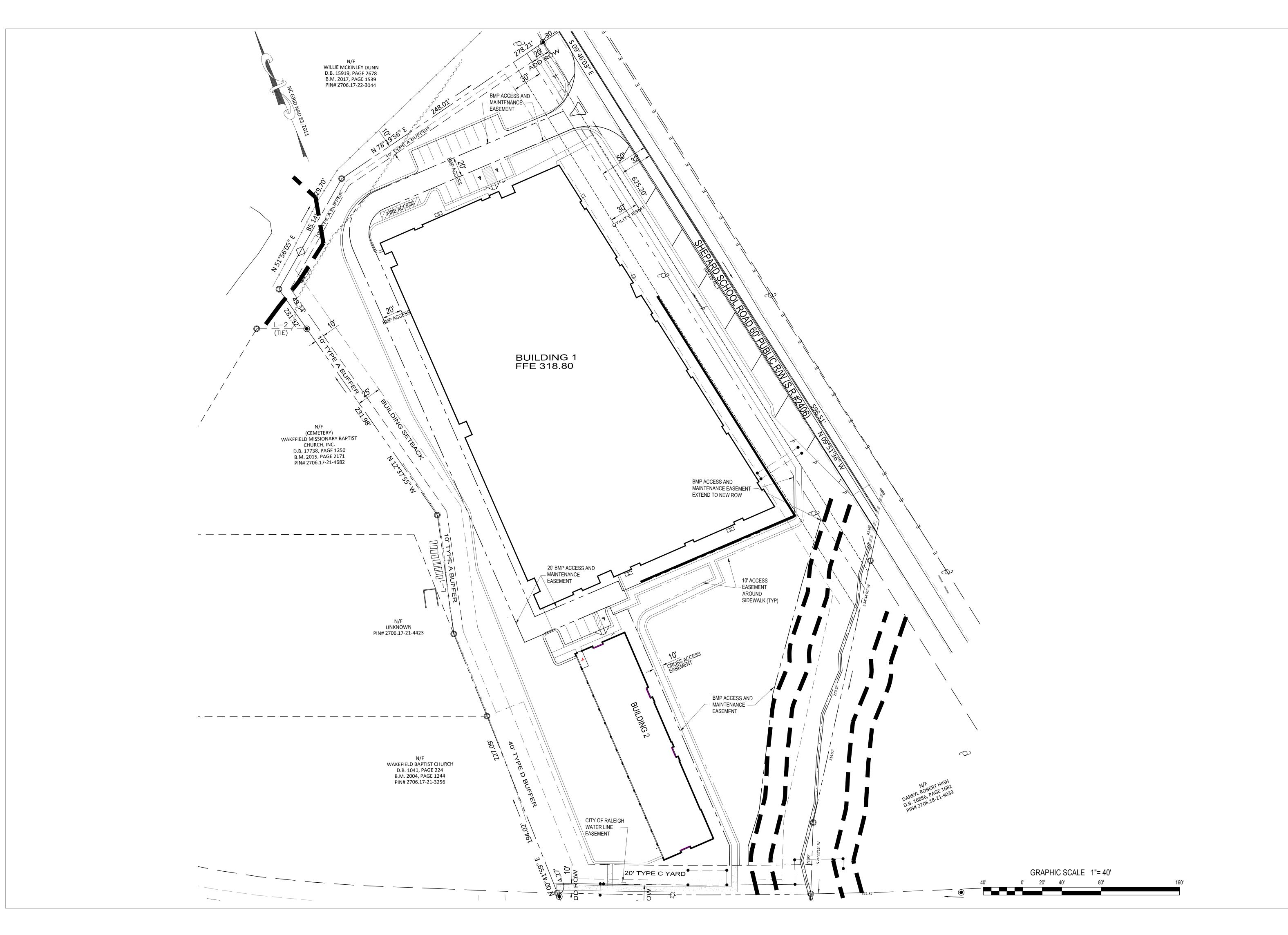
Gettle Engineering and Design, P 3616 Waxwing Court, Wake Forest, North Carolina 27587 (919) 210-3934 Firm License P-2538

PLLC



hool - Cross-Sections	ageMax (1098359)	901 Proctor Street	Wake County, North Carolina
School	ageN	301 P	Wake

Shepard S Stora



PLLC Gettle Engineering and Design, P 3616 Waxwing Court, Wake Forest, North Carolina 27587 (919) 210-3934 Firm License P-2538

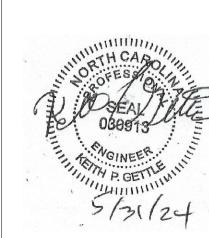
Easement Plan StorageMax (1098359) 901 Proctor Street alon, Wake County, North Carolina

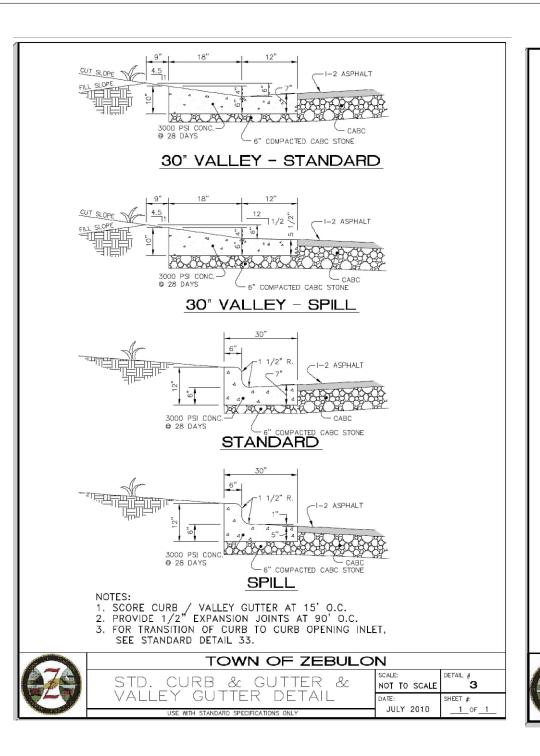
StorageMax (10 901 Proctor Sebulon, Wake County, N

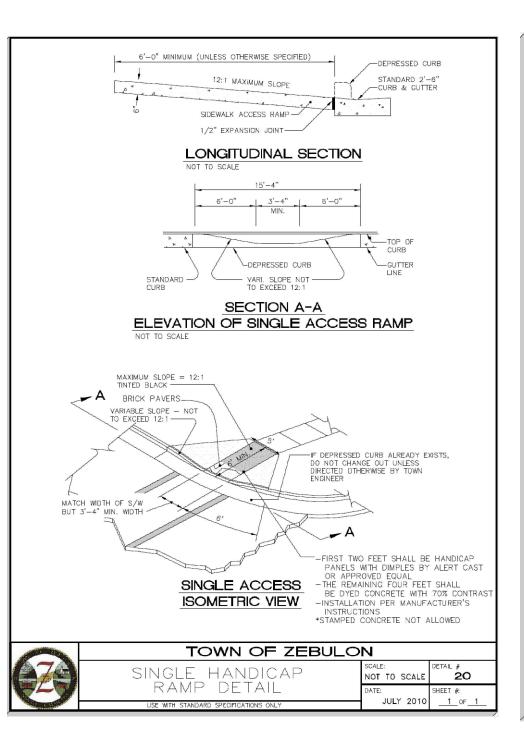
Project No. 23001

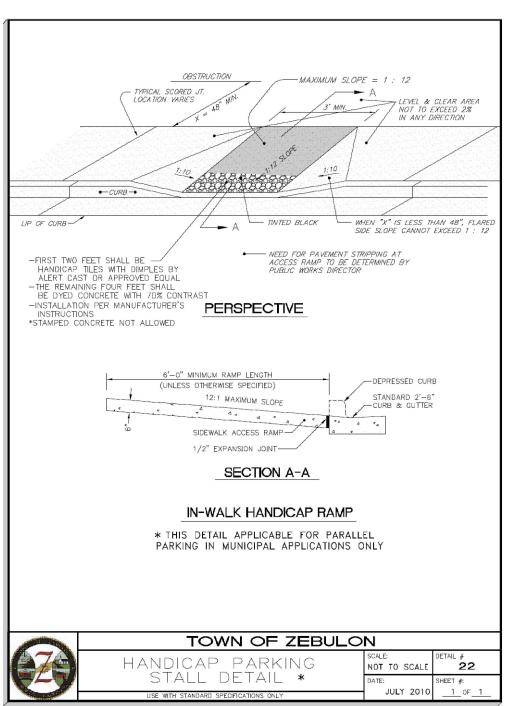
Dwg No.

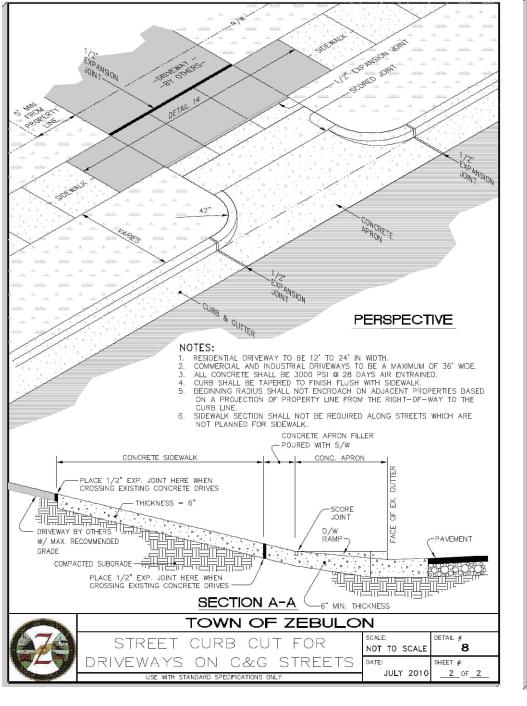


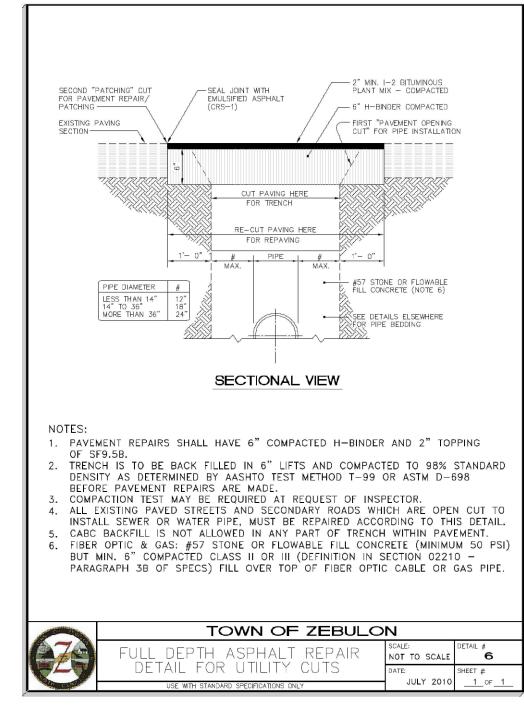


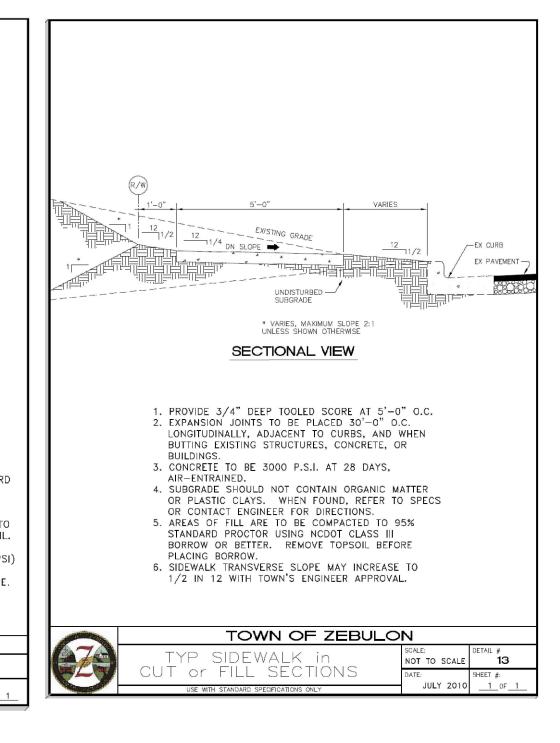












PLL

Design,

and

ettle

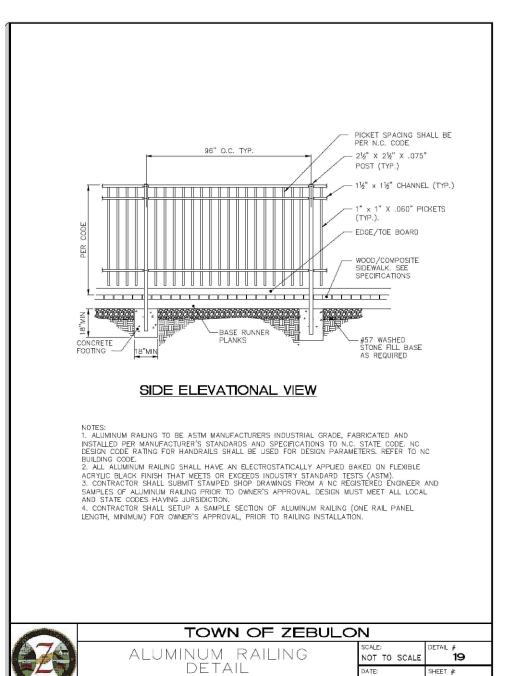
Ú

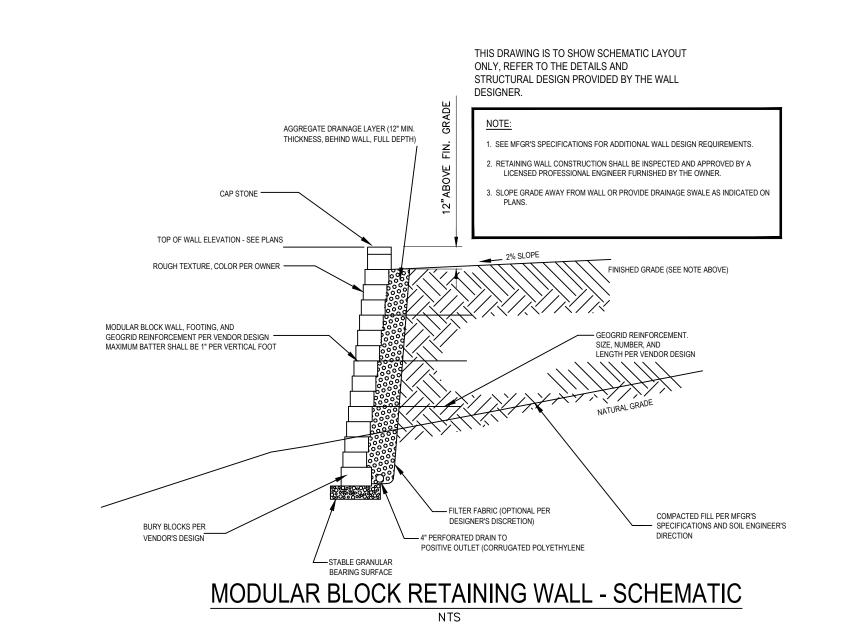
27

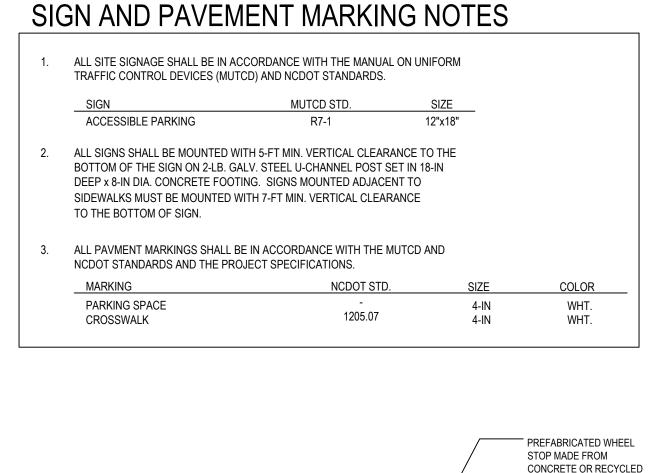
 $\boldsymbol{\sigma}$

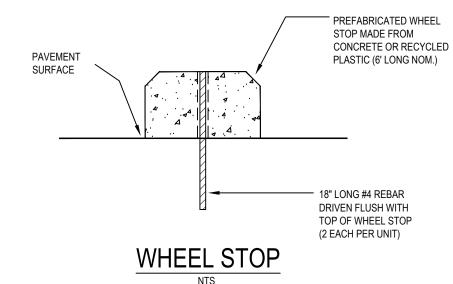
Engineering and 3616 Waxwing (ake Forest, North Carlor-3934 Firm

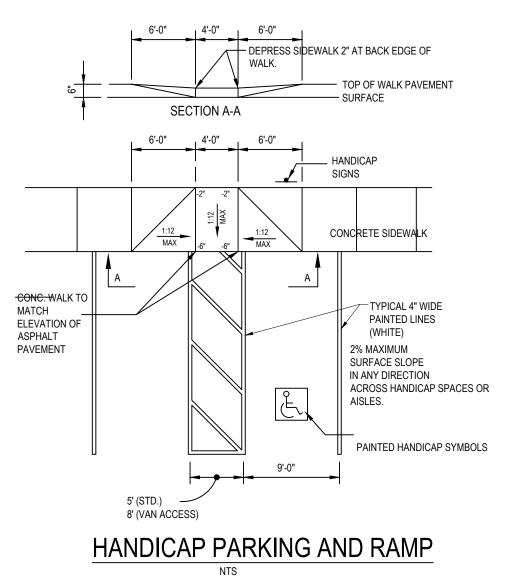
'ake | 210-

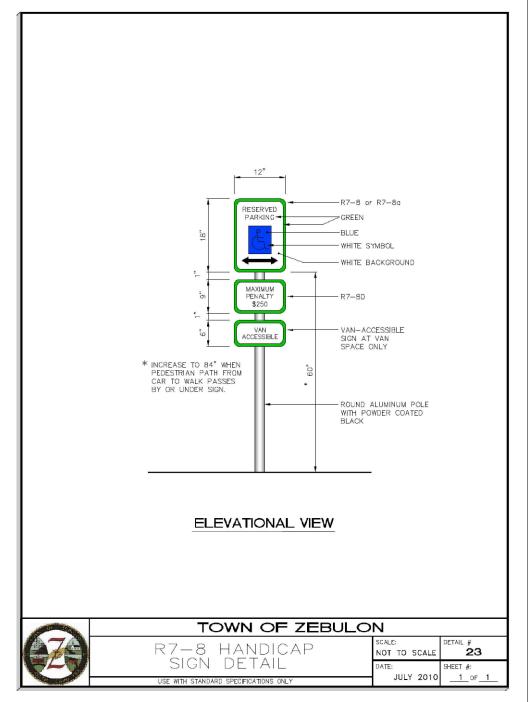


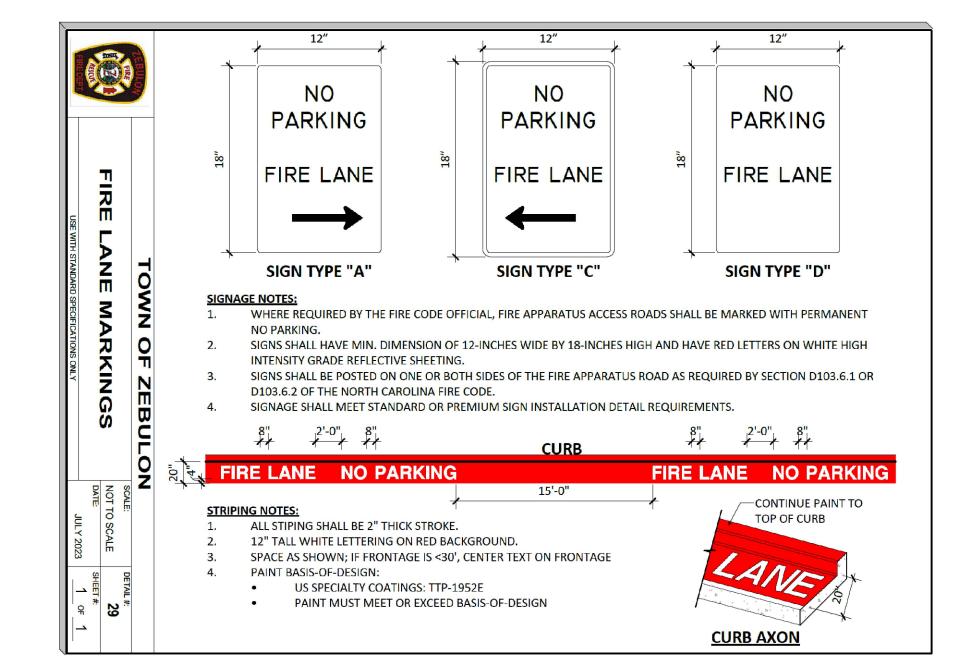


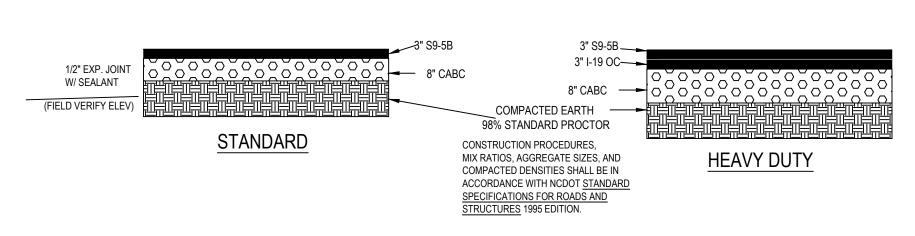




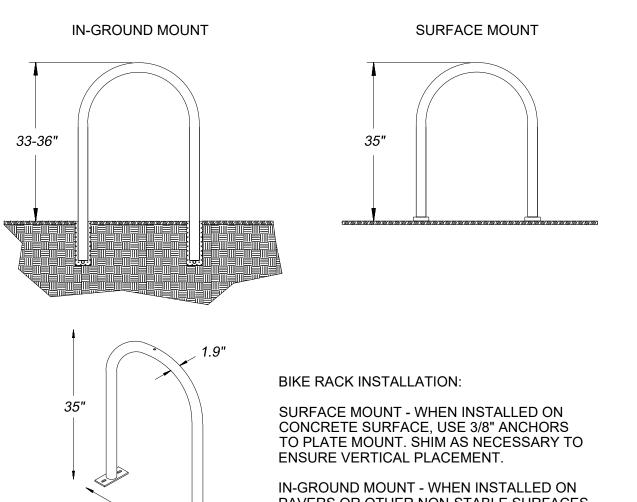








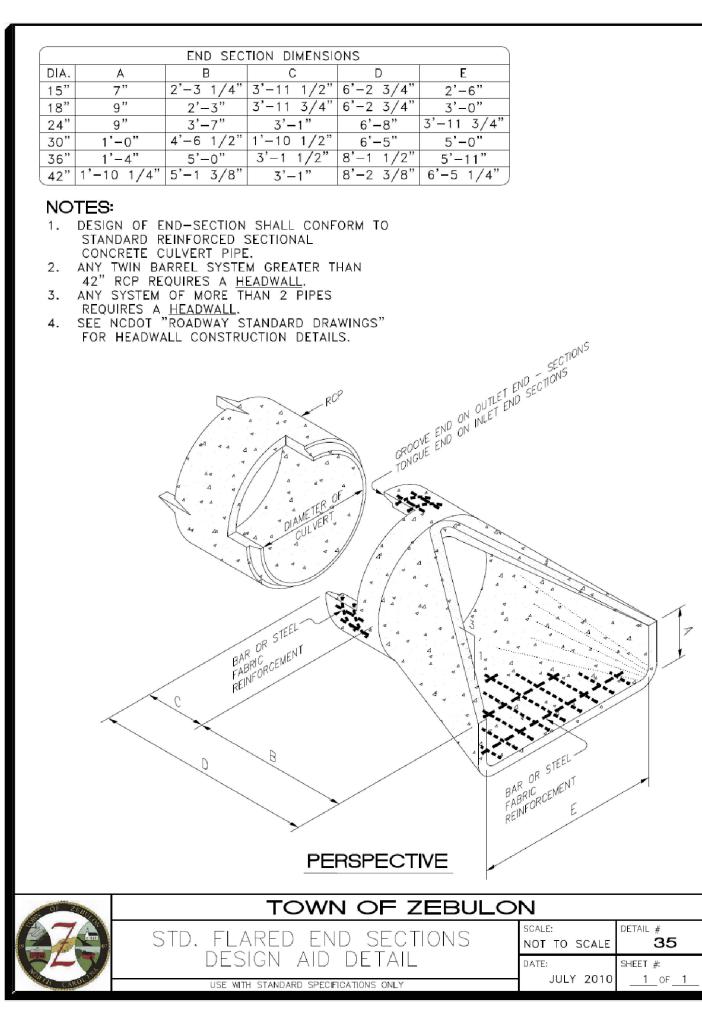
ONSITE PAVEMENT DETAIL

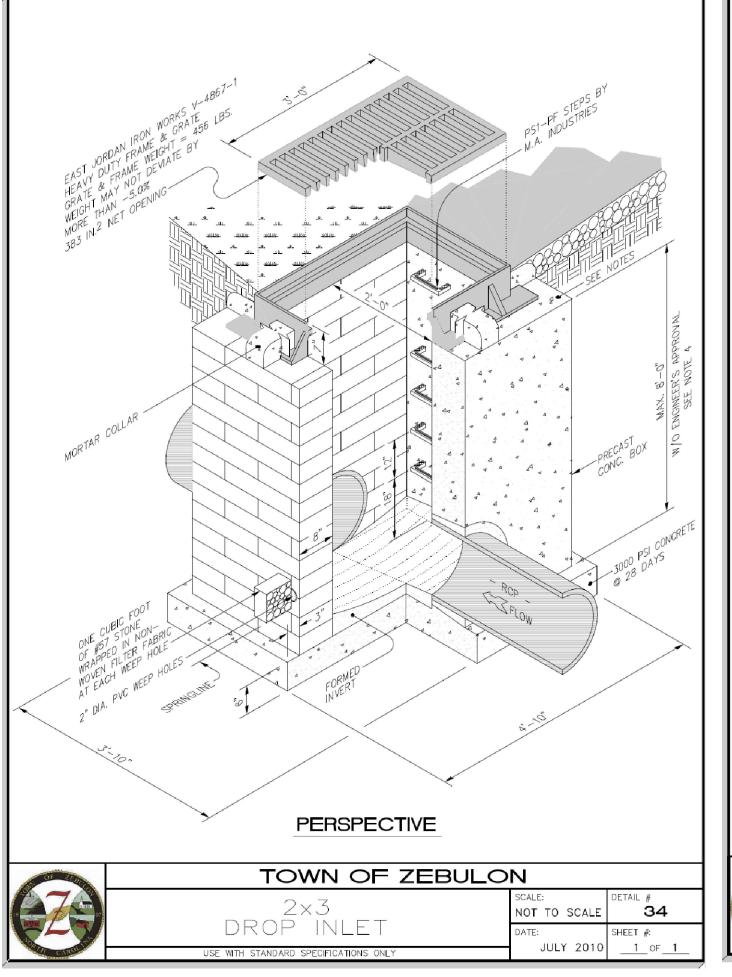


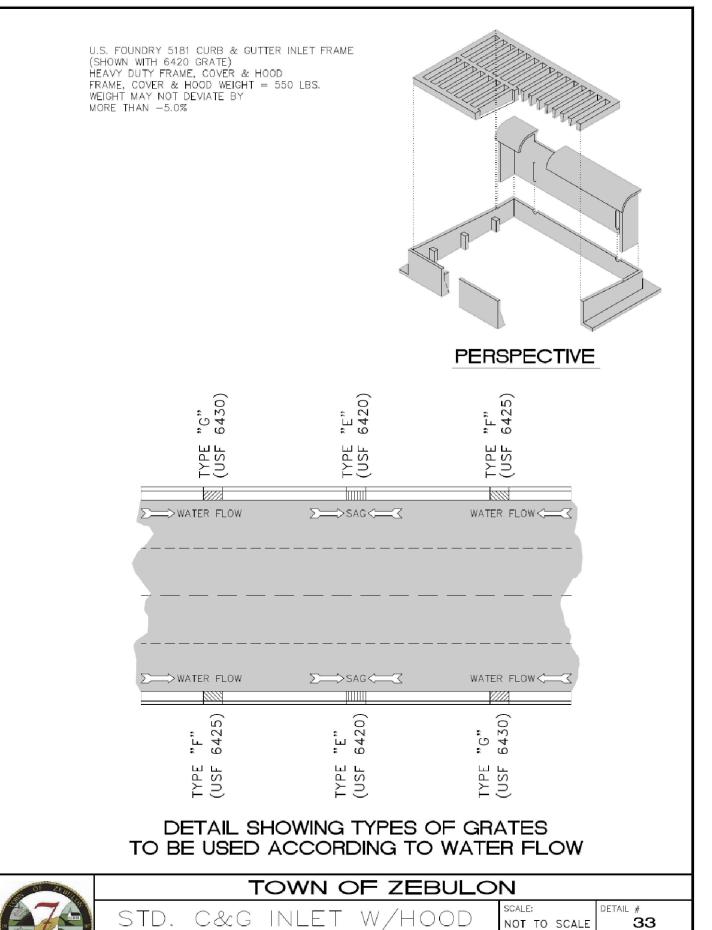
PAVERS OR OTHER NON-STABLE SURFACES. EMBED INTO BASE. CORE HOLES NO LESS THAN 3" IN DIAMETER AND 10" DEEP.

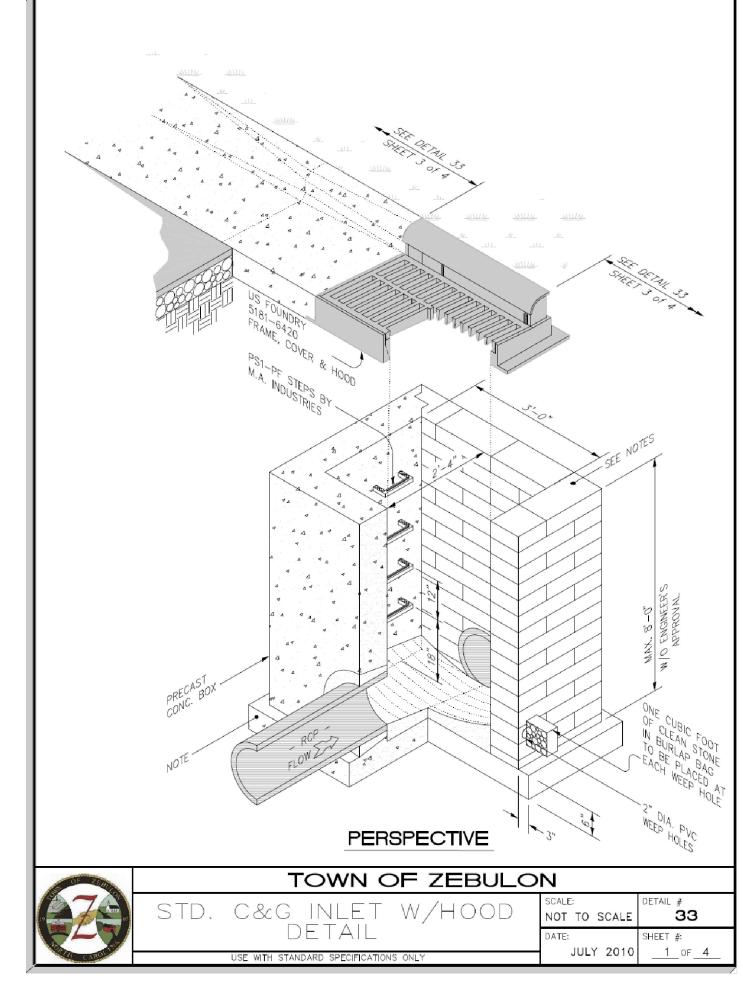
STANDARD BIKE RACK

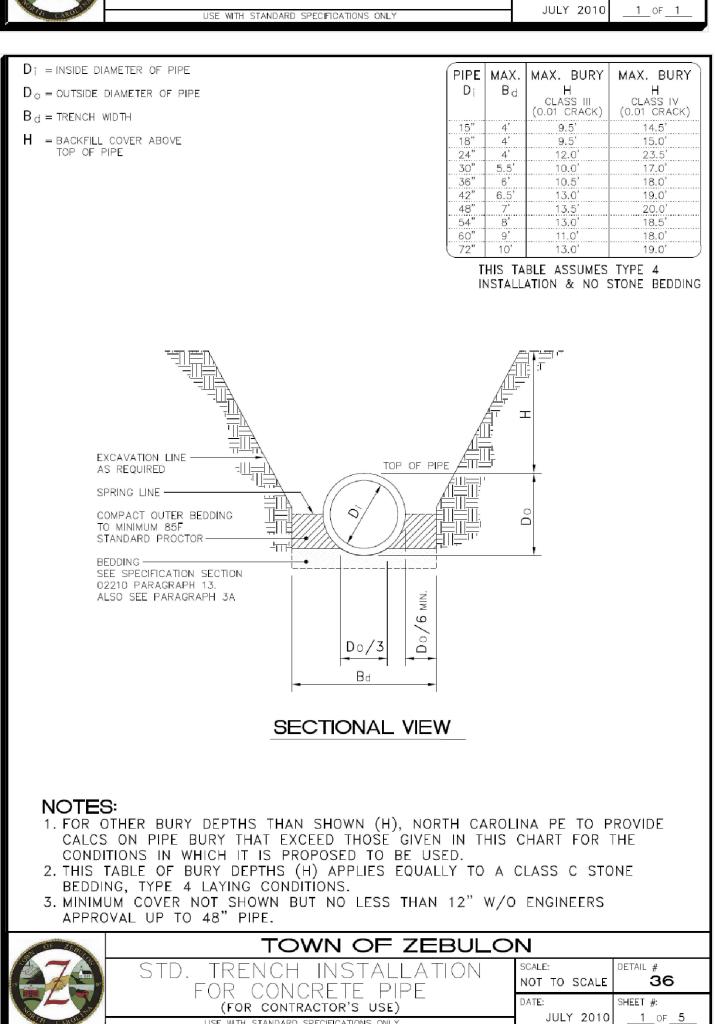
Standard Site Details
StorageMax (1098359)
901 Proctor Street
ebulon, Wake County, North Carolir

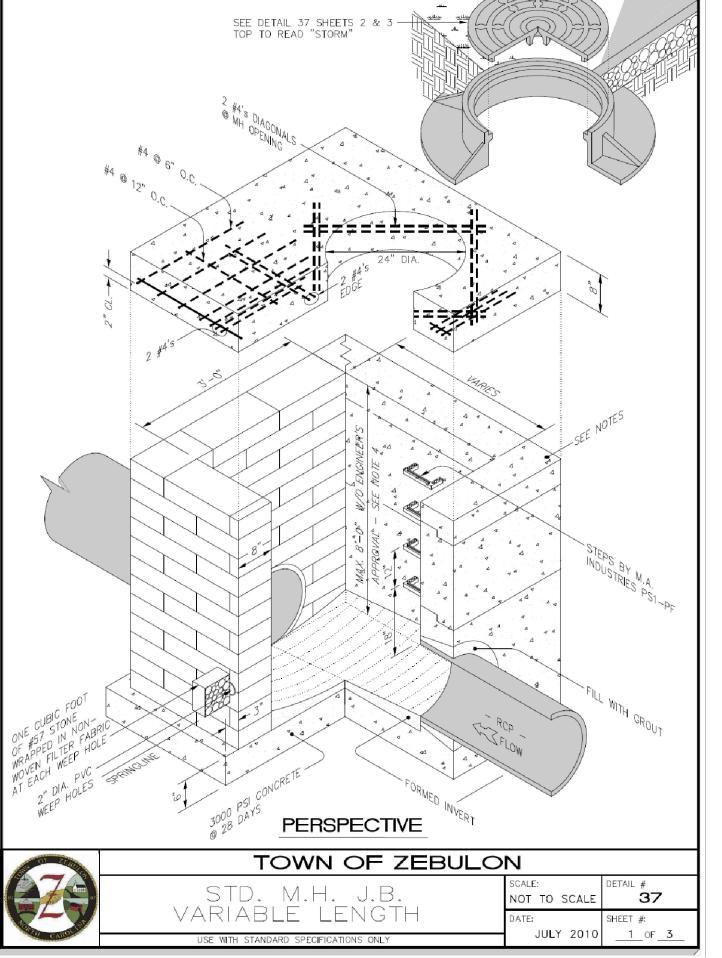


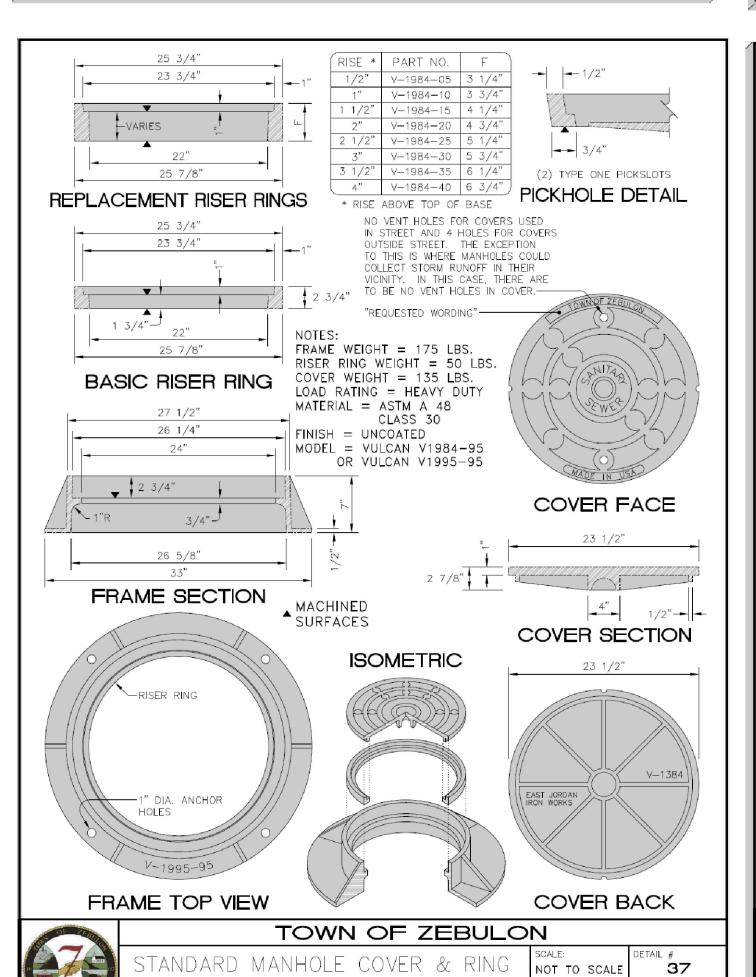


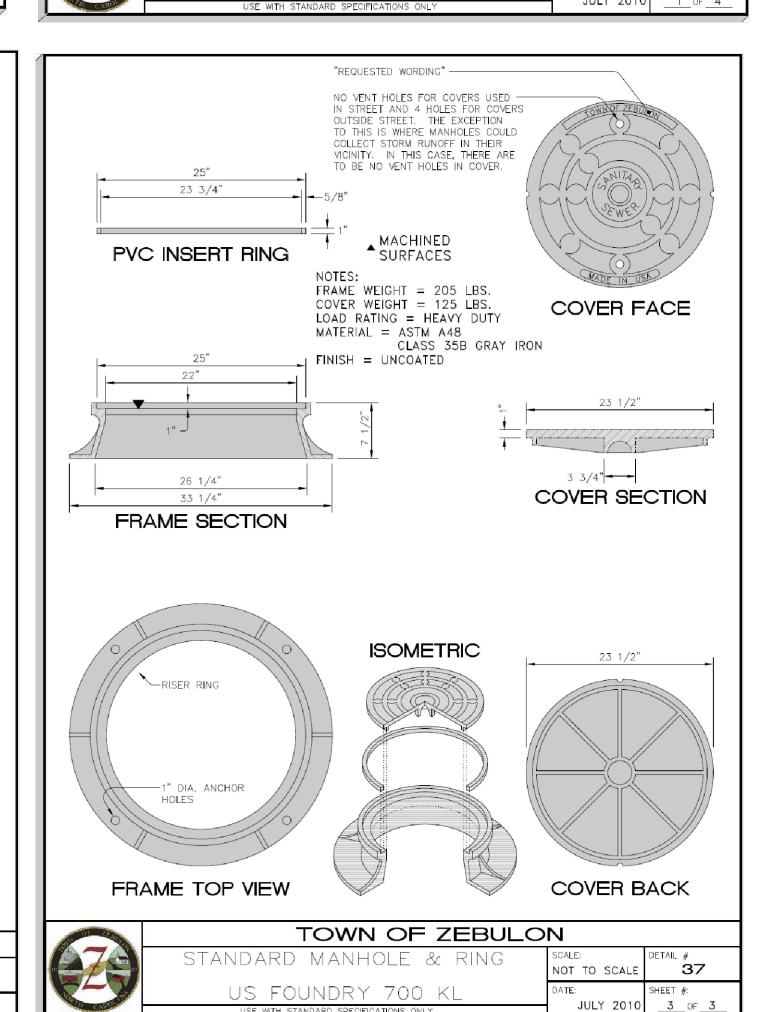


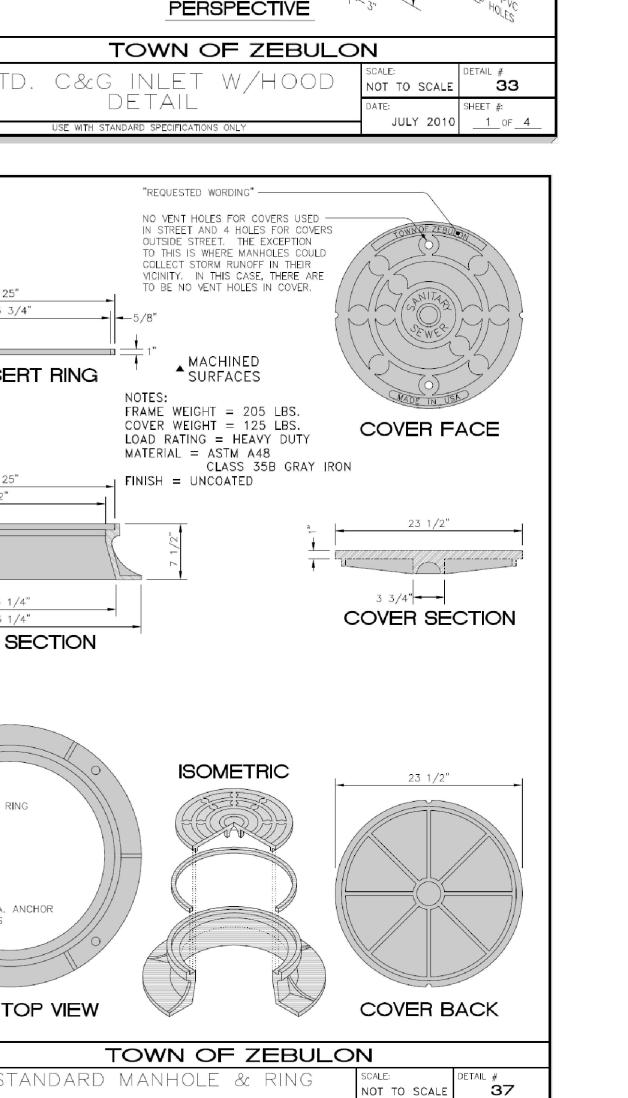






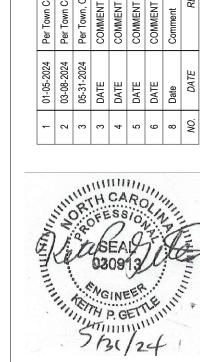




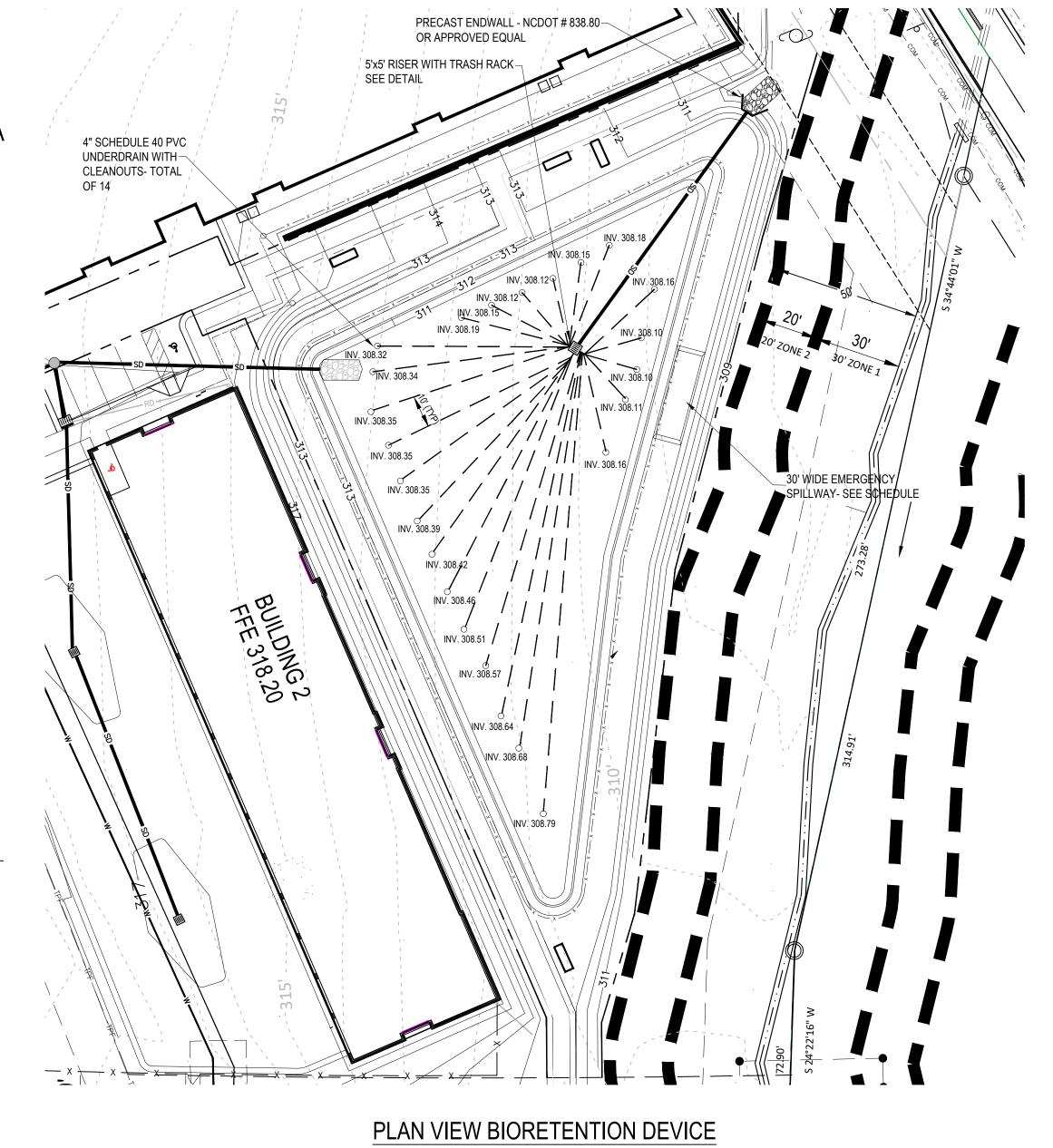




PLL



Details (1098359) r Street ty, North Carolina Stormwater D
StorageMax (10
901 Proctor S
bulon, Wake County, Zebulon,



BIORETENTION FACILITY OPERATION AND MAINTENANCE:

- * WATERING: WATERING SHOULD NOT BE REQUIRED AFTER GRASS / LANDSCAPING IS ESTABLISHED. HOWEVER, WATERING MAY BE REQUIRED DURING PROLONGED DRY PERIODS.
- * EROSION CONTROL: INSPECT FLOW ENTRANCES, PONDING AREA, AND SURFACE OVERFLOW AREAS PERIODICALLY. REPLACE MATERIAL WHERE EROSION HAS OCCURRED. IF SEDIMENT IS DEPOSITED, DETERMINE THE SOURCE, REMOVE EXCESS DEPOSITS, AND CORRECT THE PROBLEM.
- * VEGETATION: ROUTINE MAINTENANCE WILL BE NECESSARY TO ENSURE THAT THE VEGETATION IS HEALTHY AND TO REMOVE ANY WEEDS.
- * NUTRIENTS AND PESTICIDES: NUTRIENTS AND PESTICIDES SHOULD NOT BE REQUIRED. IF NECESSARY, USE SPARINGLY.
- * SOIL MEDIA: THE SOIL MEDIA SHOULD NOT NEED REPLACING. IF PROBLEMS OCCUR IN THE SOIL MEDIA, CONSULT A SOIL SPECIALIST.

BIORETENTION FACILITY NOTES:

- * THE BIORETENTION FACILITY SHALL BE PLANTED AS SHOWN ON THE LANDSCAPE PLAN.
- * ALL CONSTRUCTION, MONITORING, AND MAINTENANCE GUIDELINES IN THE NCDEQ STORM WATER BMP MANUAL SHALL BE FOLLOWED.

BIORETENTION GENERAL NOTES:

COMPACTED EARTH PER

OUTLET STRUCTURE AND PIPING

THE RISER STRUCTURE SHALL CONSIST OF PRECAST CONCRETE BASE AND RISER SECTIONS OF THE TYPE AND DIMENSIONS SHOWN. SQUARE OR RECTANGULAR SECTIONS SHALL BE SOLID-WALL CATCH BASIN TYPE STRUCTURES, AND APPROVED FOR USE BY NCDOT. ALL RISER JOINTS SHALL BE SEALED WATERTIGHT USING FLEXIBLE BUTYL RUBBER JOINT MATERIAL, RUBBER GASKETS, OR OTHER SUITABLE MATERIAL. ALL PIPE CONNECTIONS TO THE RISER SHALL BE MADE WITH A WATER TIGHT FLEXIBLE CONNECTOR BOOT PER ASTM C923.

CONCRETE

SPILLWAY EL 313.60 -

EMERGENCY SPILLWAY CROSS SECTION

NTS

ANCHOR REINF. MAT 8" MINIMUM INTO SOIL. (TYP BOTH

SIDES AND AT LEADING EDGE)

 CONCRETE WORK SHALL CONFORM TO PROJECT CONCRETE SPECIFICATIONS.

FLOWABLE FILL

FLOWABLE FILL SHALL CONSIST OF A MIXTURE OF PORTLAND CEMENT, AGGREGATE NOT GREATER THAN 3/8 INCH DIAMETER, WATER, AND OTHER APPROVED COMPONENTS, WITH A MINIMUM PH OF 4.0, AND A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 150 PSI. THE MIXTURE SHALL BE SUFFICIENTLY FLOWABLE TO BE SELF-LEVELING, FILLING ALL VOIDS UNDER THE PIPE AND PIPE HAUNCHES WITHOUT REQUIRING VIBRATION.

FINAL SURFACE STABILIZATION

 STABILIZE ALL SURFACES OF THE EMBANKMENT, SPILLWAY, SLOPES, SPOIL AND BORROW AREAS THAT ARE NOT COVERED BY OTHER SPECIFIED MATERIALS WITH GRASS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

BIORETENTION NOTES (CONT):

ALL DRAINAGE AREAS TO A BIORETENTION FACILITY ARE TO BE STABILIZED PRIOR TO INSTALLATION OF AMENDED SOILS, MULCH OR PLANTINGS.

CONCRETE ANTI- SEEP COLLAR DETAIL

(NOT TO SCALE)

BIORETENTION PLANTING SOIL MEDIA SPECIFICATIONS:

PROVIDE — WATERTIGHT

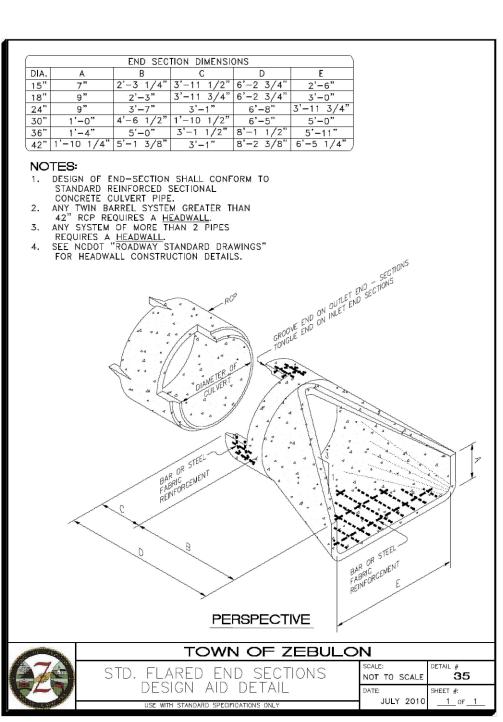
CONNECTION

12 IN. THICK (MIN.) CAST-IN-PLACE OR PRECAST— CONCRETE COLLAR (MIN. 2000 PSI)

- THE PLANTING SOIL SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN ONE-HALF INCH IN DIAMETER. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE BIORETENTION AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHALL BE FREE OF BERMUDA GRASS, JOHNSON GRASS, QUACK GRASS, MUGWORT, NUTSEDGE, POISON IVY, CANADA THISTLE, OR OTHER NOXIOUS WEEDS.
- PLANTING MIX FOR BIORETENTION CELL UNIFORM SOIL MIXTURE FREE OF STUMPS, STONES, OR LARGE ROOTS, CONTAINING THE FOLLOWING TYPES AND RATIOS (BY WEIGHT) OF COMPONENTS:

75-85%% MEDIUM TO COARSE SAND (ASTM C-33) 8%-15% FINE SOIL MATERIAL (INCLUDES BOTH SILT OR CLAY) 5%-15% ORGANICS / PINE BARK FINES

- PHOSPHOROUS INDEX SHALL NOT EXCEED 30
- GRADING CLEARING, STRIPPING, EXCAVATION, FILLING, TRENCHING, BACKFILLING, COMPACTION, AND FINE-GRADING WORK SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF PROJECT SPECIFICATIONS.
- UNDERDRAIN GRAVEL CLEAN, HARD, ANGULAR GRAVEL CONFORMING TO NCDOT DESIGNATION # 57 OR # 8 AS APPROPRIATE.
- GEOFILTER FABRIC NON-WOVEN, NEEDLE-PUNCHED
 GEOTEXTILE WITH 135 LBS. PUNCTURE STRENGTH (ASTM
 D-4833); 220 LBS. TENSILE STRENGTH (ASTM D-4632); AND
 APPARENT OPENING SIZE OF U.S. STD. #80 SIEVE (ASTM D-4751).
- UNDERDRAIN PIPING NOMINAL 4" DIAMETER SCHEDULE 40 PVC, WITH 3/8" DIAMETER PERFORATIONS SPACED EQUALLY AROUND THE FULL PIPE PERIMETER. CLEANOUT PIPE AND FITTINGS SHALL BE SOLVENT-WELDED SCHEDULE 40 PVC PER THE DETAIL SHOWN AND EXTEND AT LEAST 8" ABOVE THE MULCH LAYER. MINIMUM 1 CLEANOUT PER 1000 SQUARE FEET OF SURFACE AREA OF THE DEVICE.



STORM PIPE

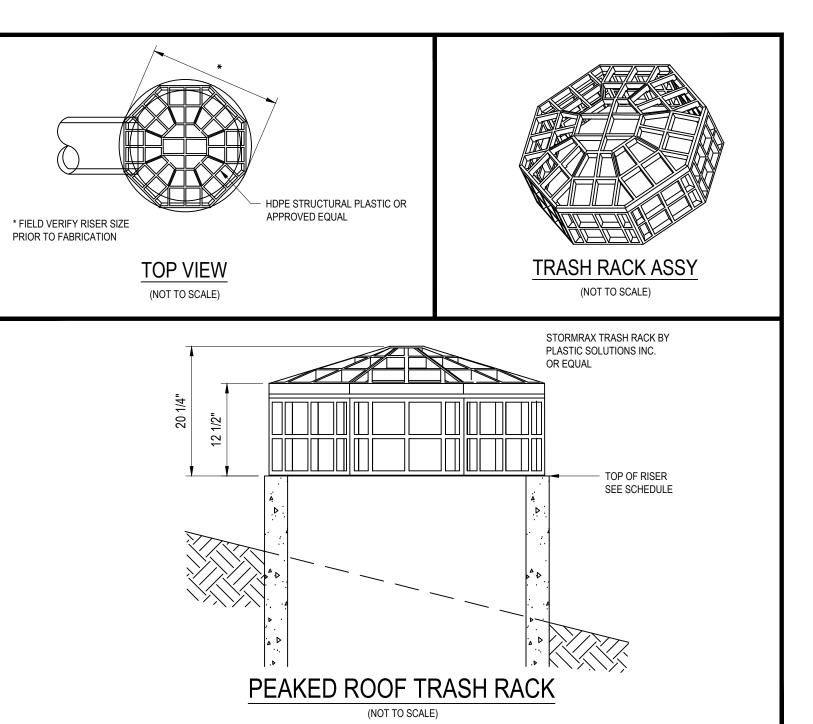
RIP RAP APRON SEE SCHEDULE SHEET C7

INLET PIPE DETAIL

(NOT TO SCALE)

TOP OF MEDIA





Top of Dam	313.90
Emergency Spillway (30' Wide)	313.60
Top of Riser	313.00
Bottom of Riser (Inv)	308.00
Orifice (8"x30")	311.80
Media Surface	311.00
Discharge Pipe Dia.	24"
Discharge Length	100'
Discharge Inv Out	307.50
WQV Elevation	311.80
Q1 Elevation	312.60
Q2 Elevation	312.79
Q10 Elevation	313.27
Q100 Elevation	313.73
Seasonal High Water Table	306.00

| 1 | 01-05-2024 | Per Town Comment | KPG | | 2 | 03-08-2024 | Per Town Comment | KPG | | 3 | 05-31-2024 | Per Town Comment | KPG | | 3 | 05-31-2024 | Per Town Comment | KPG | | 4 | DATE | COMMENT | BY | | 5 | DATE | COMMENT | BY | | 6 | DATE | COMMENT | BY | | 8 | Date | Comment | By | | 919) 2

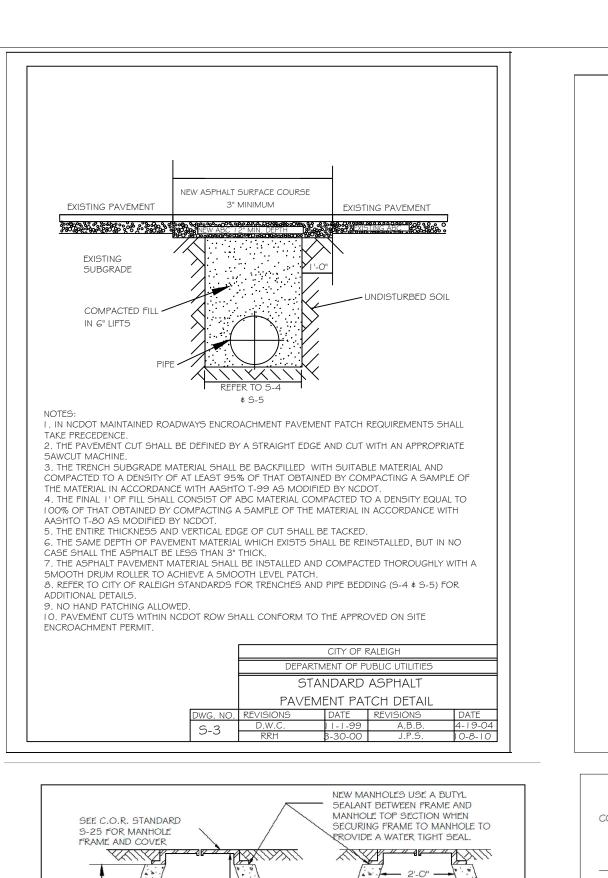
Design,

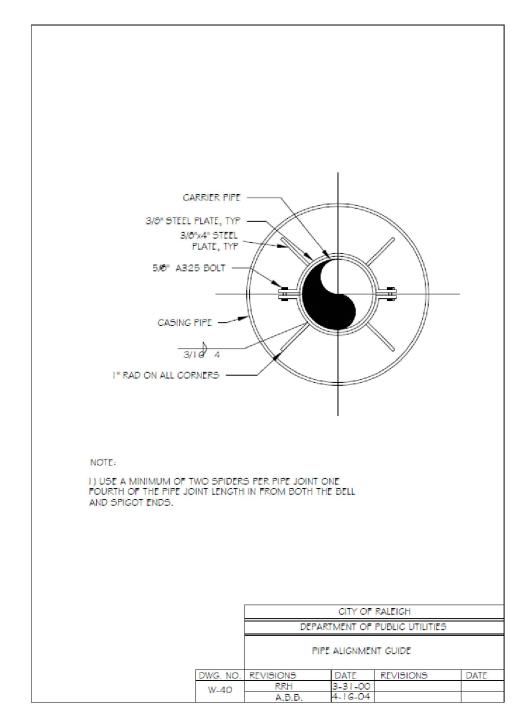
and

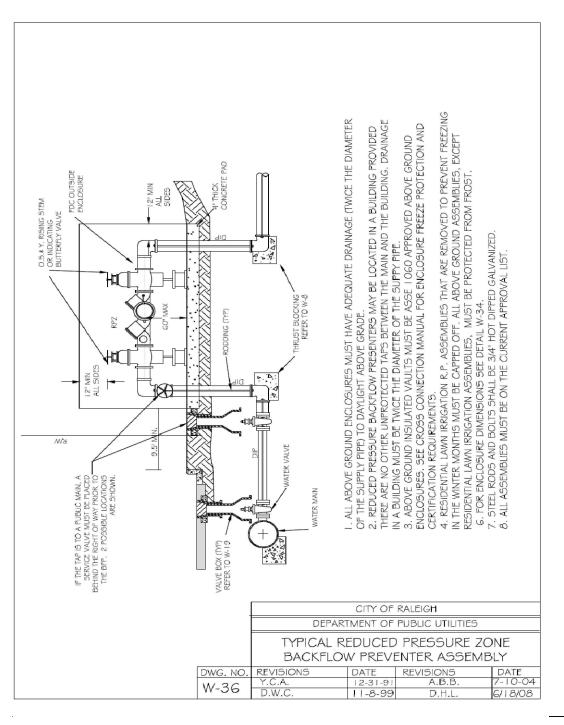
Engineering

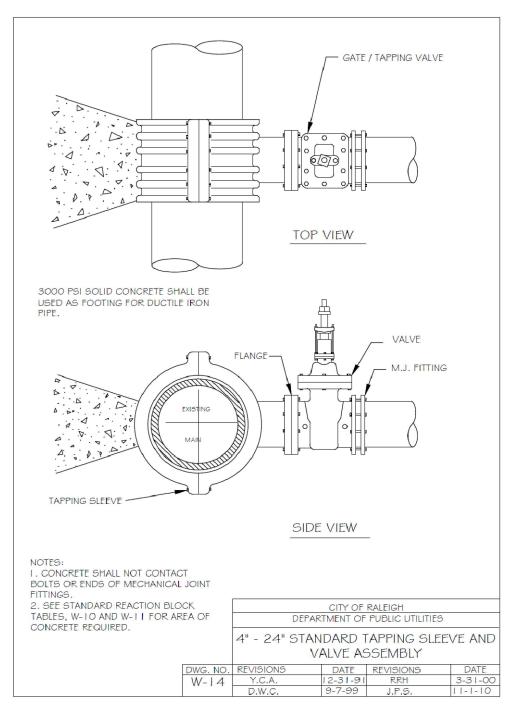


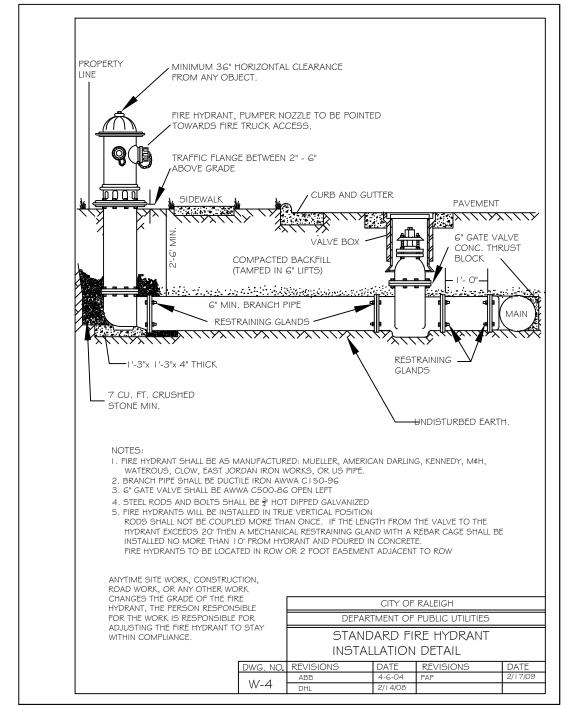
BMP Bioretention De StorageMax (109835 901 Proctor Street Zebulon, Wake County, North Ca

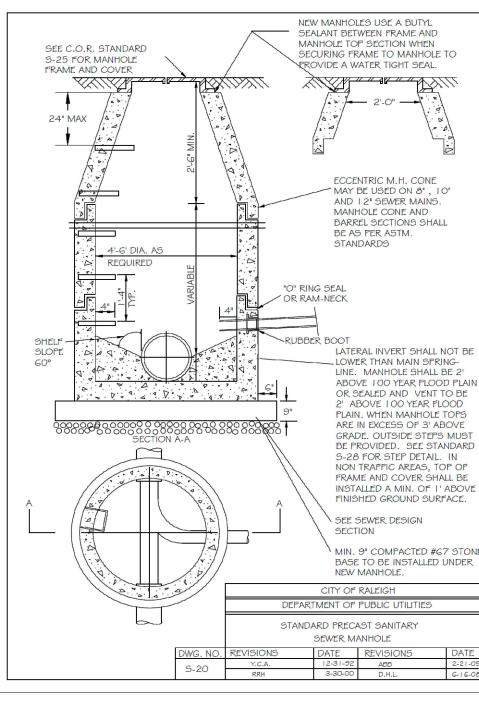


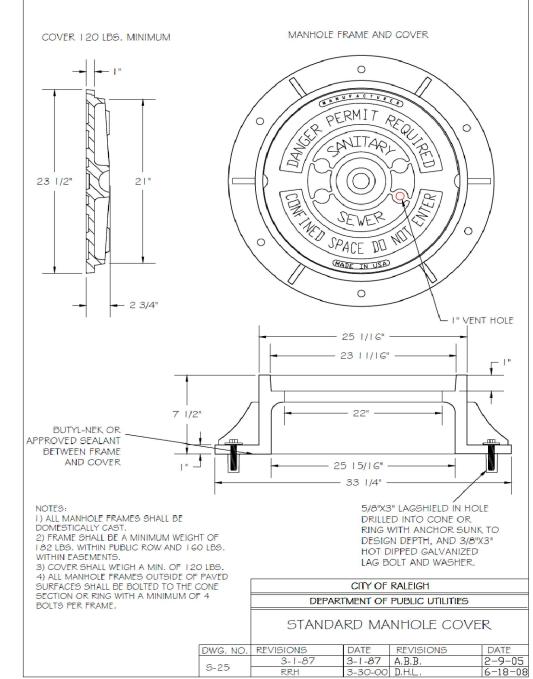


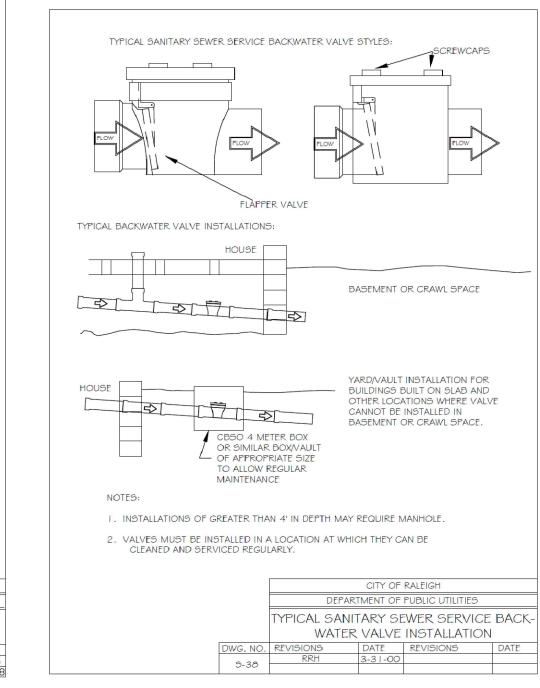


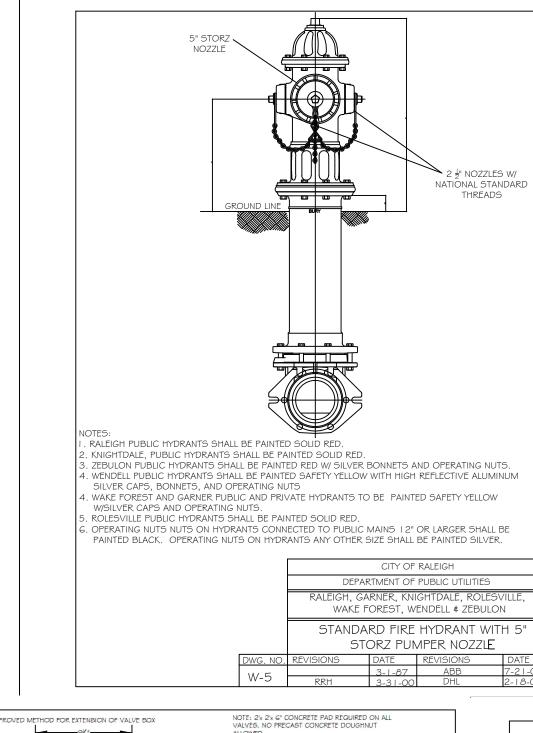


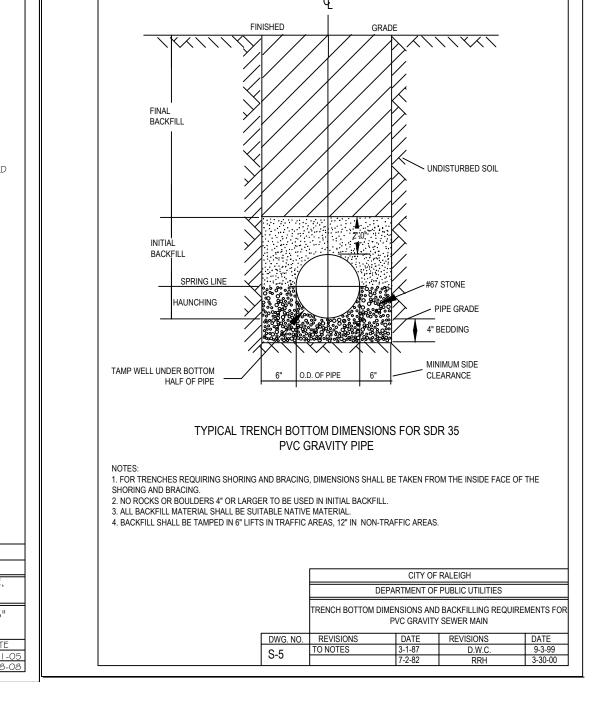


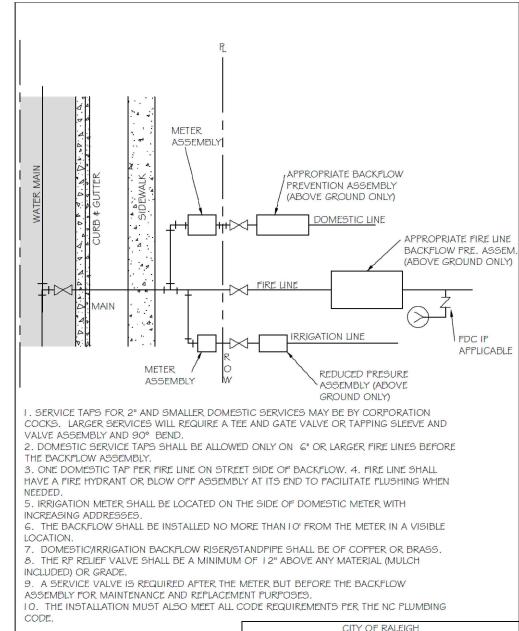








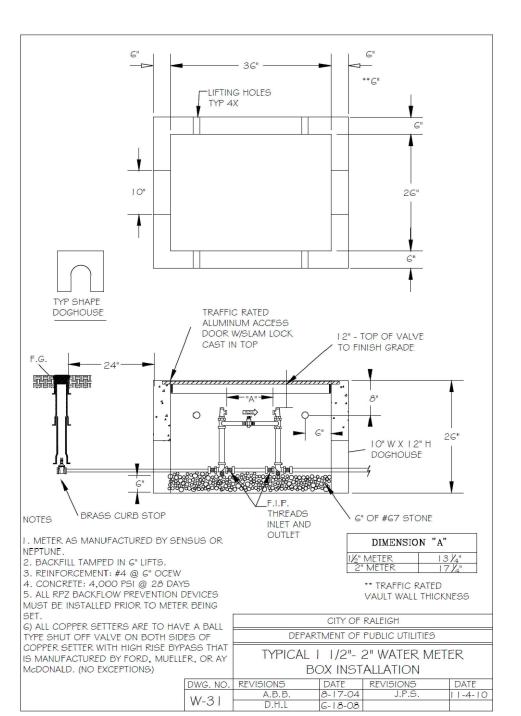


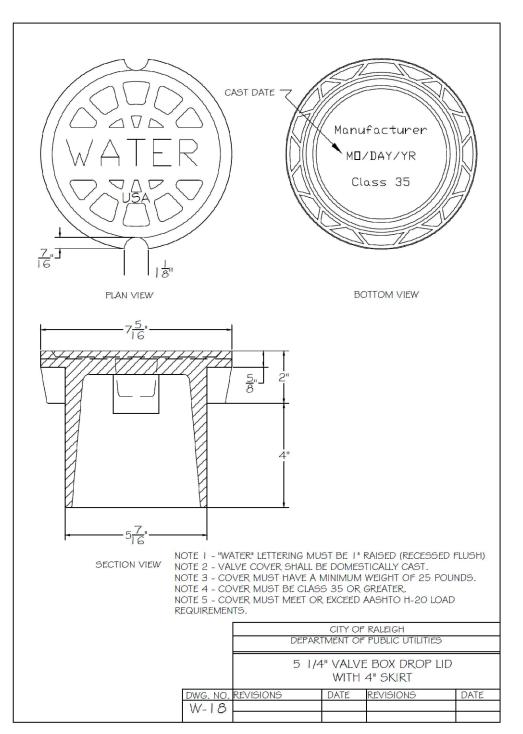


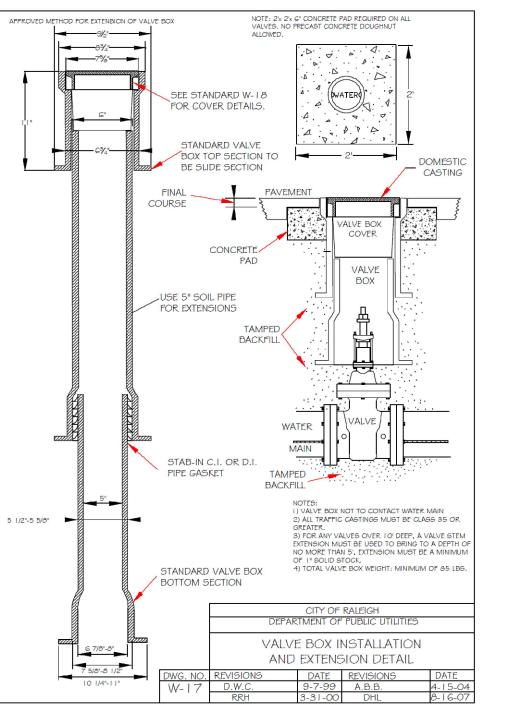
DEPARTMENT OF PUBLIC UTILITIES

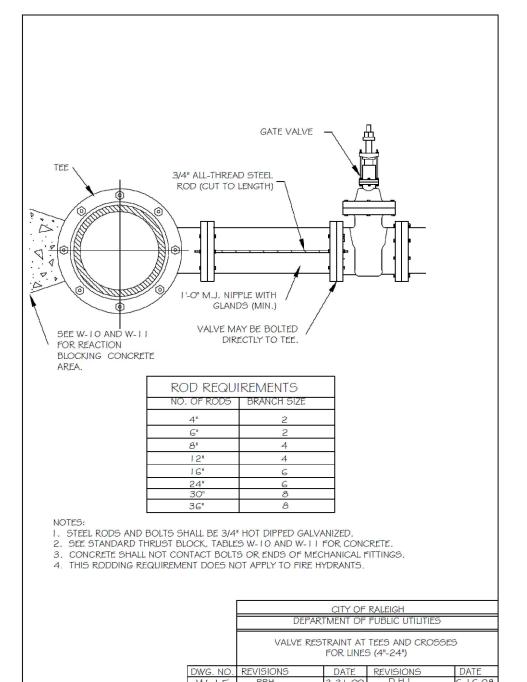
FIRE, DOMESTIC & IRRIGATION

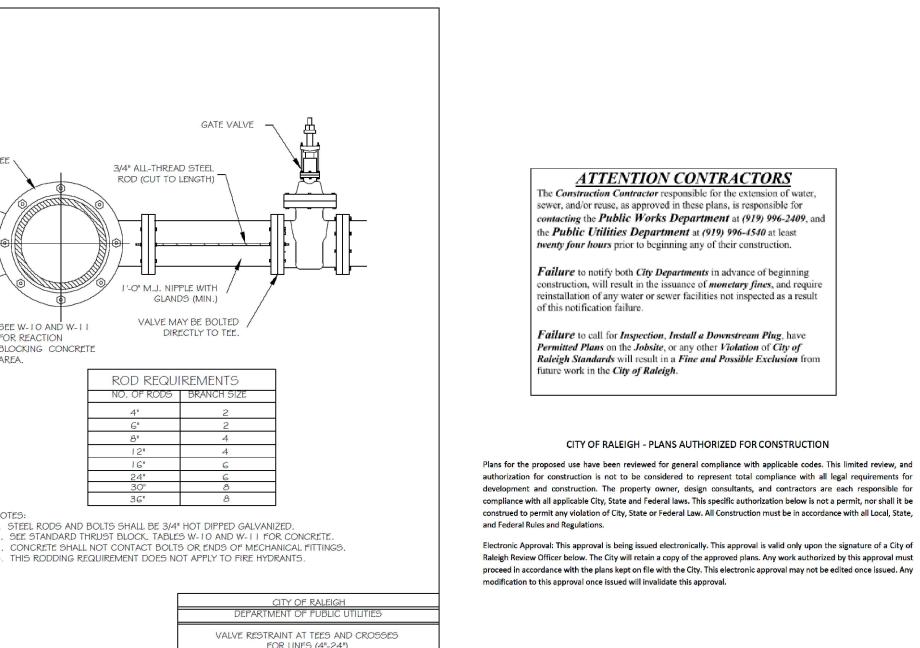
OPTIONS SCHEMATIC













Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval City of Raleigh Review Officer Project No. 23001

Engineering ettle

Design,

and

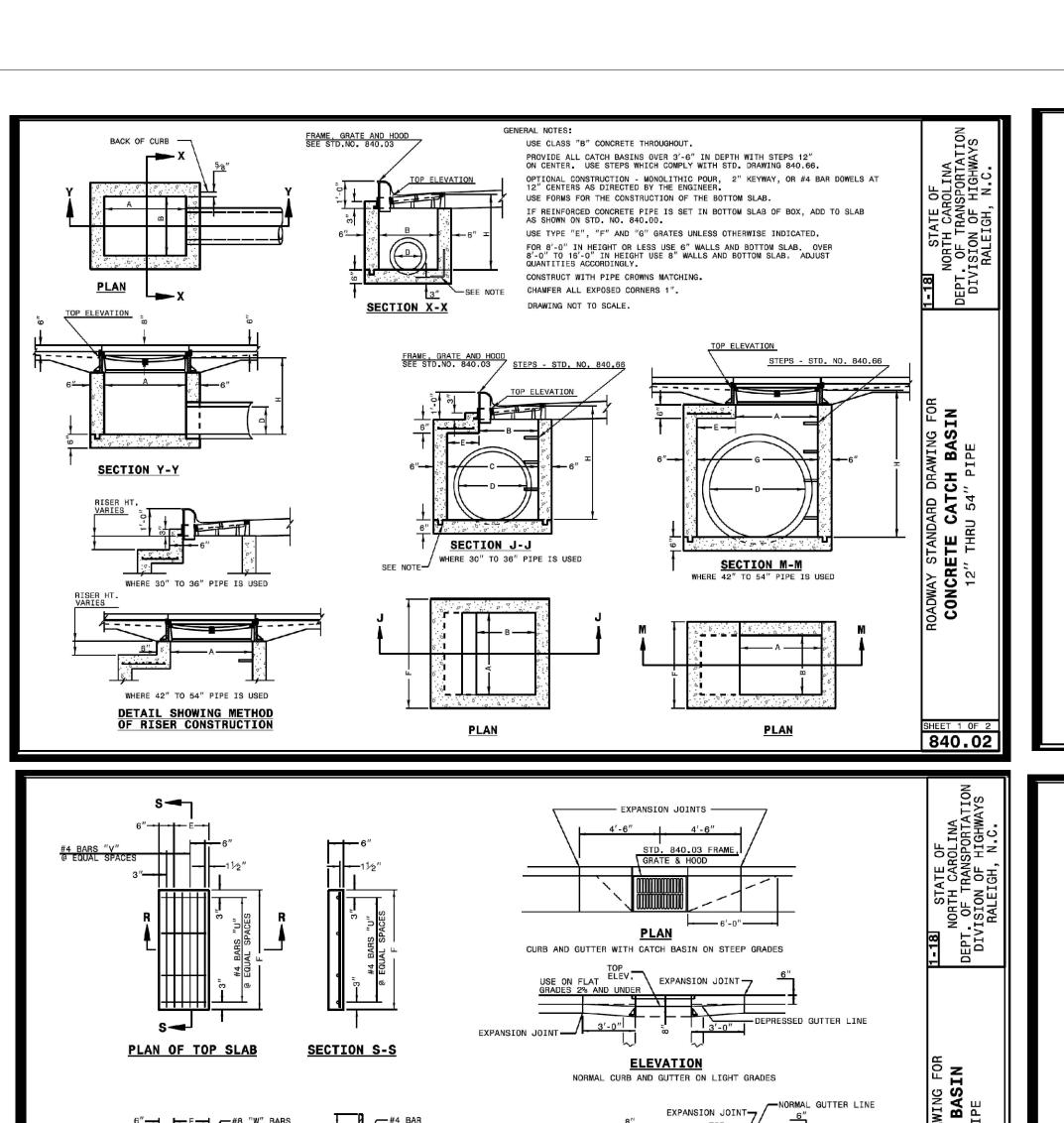
(D

er Details 1098359) age 301 F Wake Stor Zebulon,

Sewer

and

Water



SECTION R-R

GENERAL NOTES FOR FLAGGING OPERATIONS
1- REFER TO RSD. 1101.11, SHEETS 1 & 4, FOR "L" DISTANCE AND SIGN SPACING.

2- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC.

REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.

4- PLACE CONES THRU THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.

5- EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER (REFER TO RSD. 1101.11, SHEET 2).

 $\ensuremath{\text{6-}}\xspace$ DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.

7- DRUMS OR SKINNY DRUMS MAY BE USED IN LIEU OF CONES. REFER TO RSD. 1180.01 FOR SKINNY DRUM REQUIREMENTS.

9- REFER TO THE CURRENT MUTCD FOR FLAGGER CONTROL, REQUIREMENTS, AND PROCEDURES.

10- DO NOT EXCEED A 1 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TMP OR AS DIRECTED BY THE ENGINEER.

12" 3'-0" 2'-2" -- -- 2'-9" -- -- -- 0.235 0.772 0
15" 3'-0" 2'-2" 3'-0"

BUFFER TAPER
SPACE 100'

BUFFER TAPER
SPACE 100'

11- IF VEHICLE QUEUES WILL REACH WITHIN 15' OF EITHER SIDE OF ACTIVE RAILROAD TRACKS, PROVIDE A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER TO PREVENT VEHICLES FROM STOPPING WITHIN THE GRADE CROSSING. PROVIDE OFFICER OR FLAGGER EVEN IF AUTOMATIC WARNING MEASURES ALREADY EXIST.

2- IF ROADWAY WIDTH IS LESS THAN 22 FEET (EOP TO EOP), CONES MAY NOT BE REQUIRED ALONG WORK AREA, AND AT THE DISCRETION OF THE ENGINEER, CONES MAY BE OMITTED ALONG THE WORK AREA IF USING A PILOT CAR.

PORTABLE SIGN

◆ DIRECTION OF TRAFFIC FLOW

4- MOUNT SIGN G20-4 "PILOT CAR FOLLOW ME" AT A CONSPICUOUS POSITION ON THE REAR OF THE PILOT VEHICLE.

GENERAL NOTES FOR PILOT CAR OPERATIONS
1- USE PILOT CARS WHEN DIRECTED BY THE ENGINEER.

3- CONES ARE ALWAYS REQUIRED IN THE UPSTREAM AND DOWNSTREAM TAPERS.

5- DO NOT INSTALL MORE THAN ONE (1) MILE OF LANE CLOSURE, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

INSET FOR 2-LANE ROADWAYS

WITH 2-WAY TURN LANE

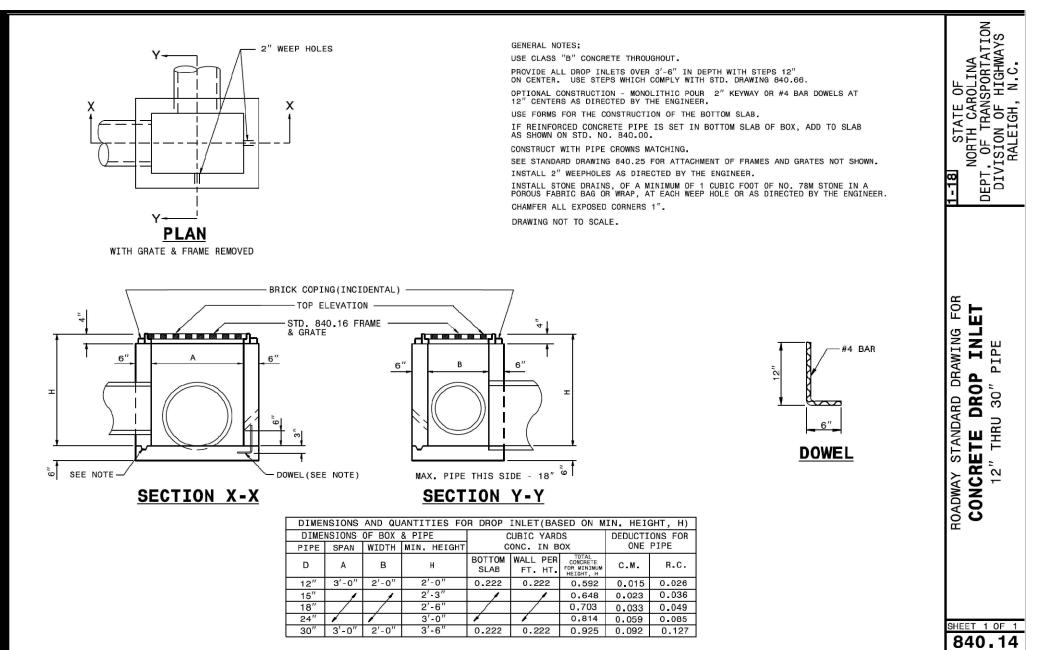
ALL OTHER DEVICES ARE THE SAME AS ABOVE

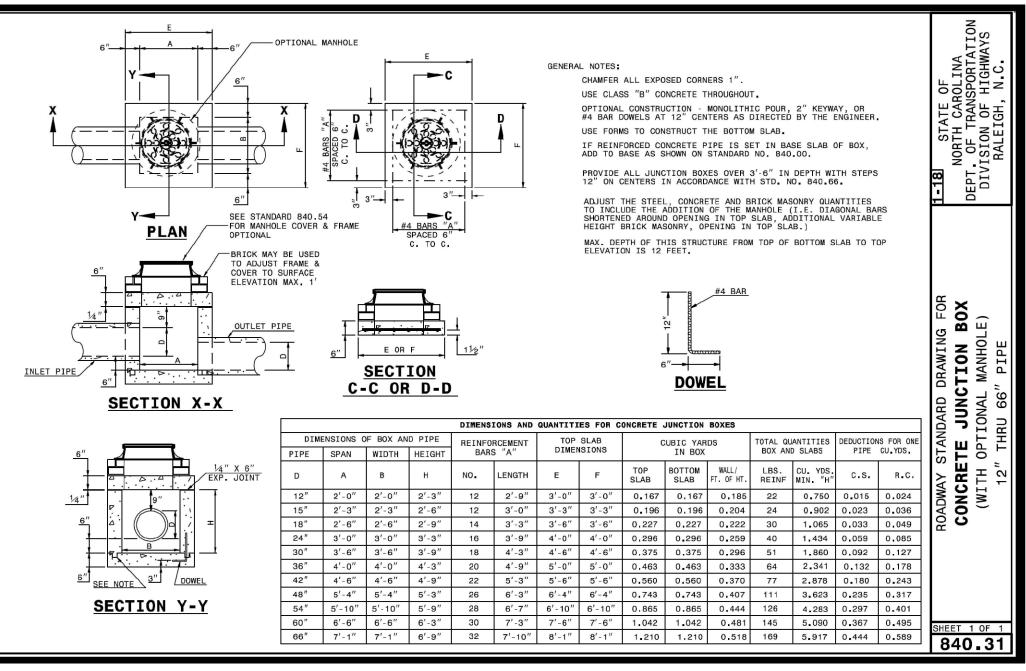
<u>ELEVATION</u>

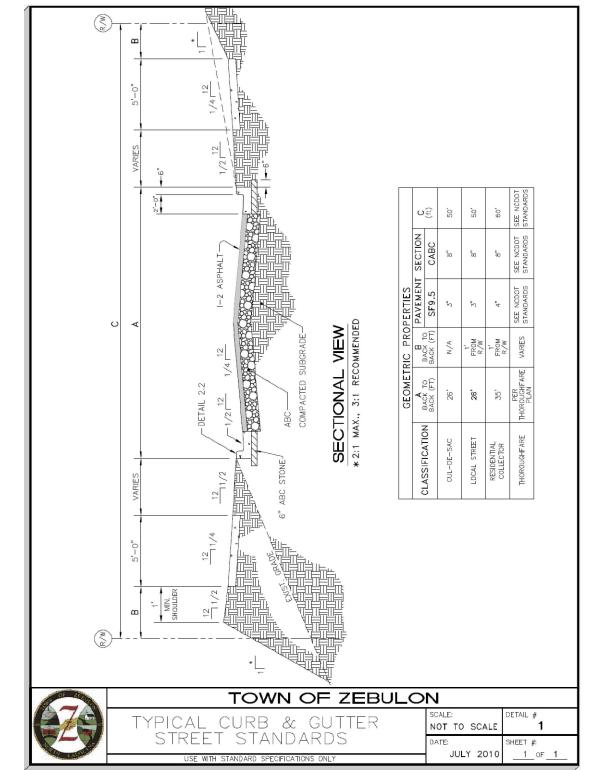
NORMAL CURB AND GUTTER ON STEEP GRADES

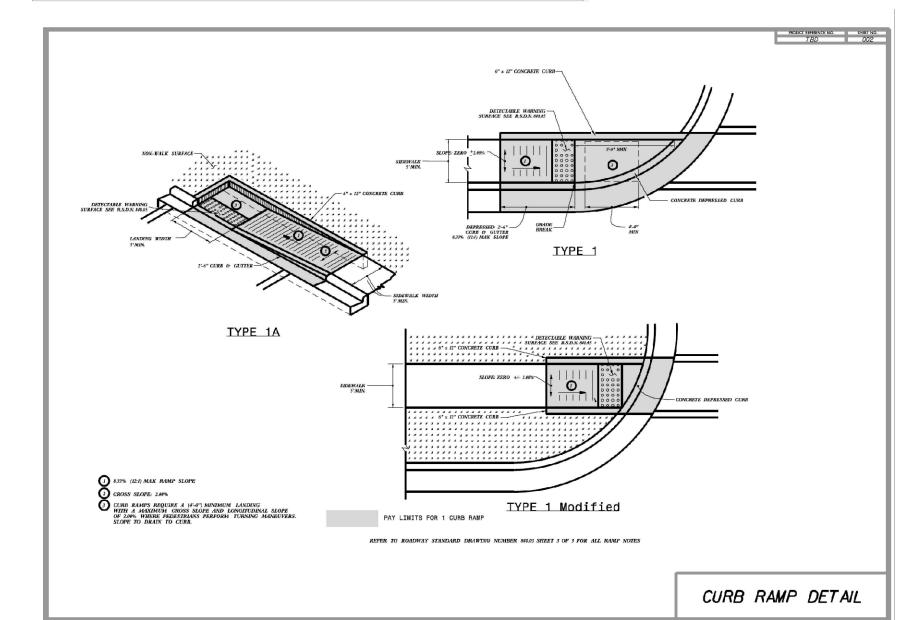
* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

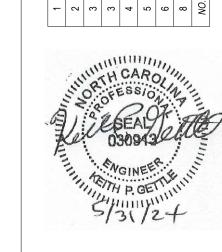
840.02











PL

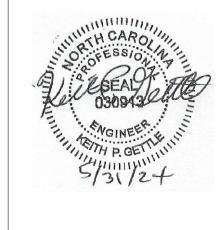
Design,

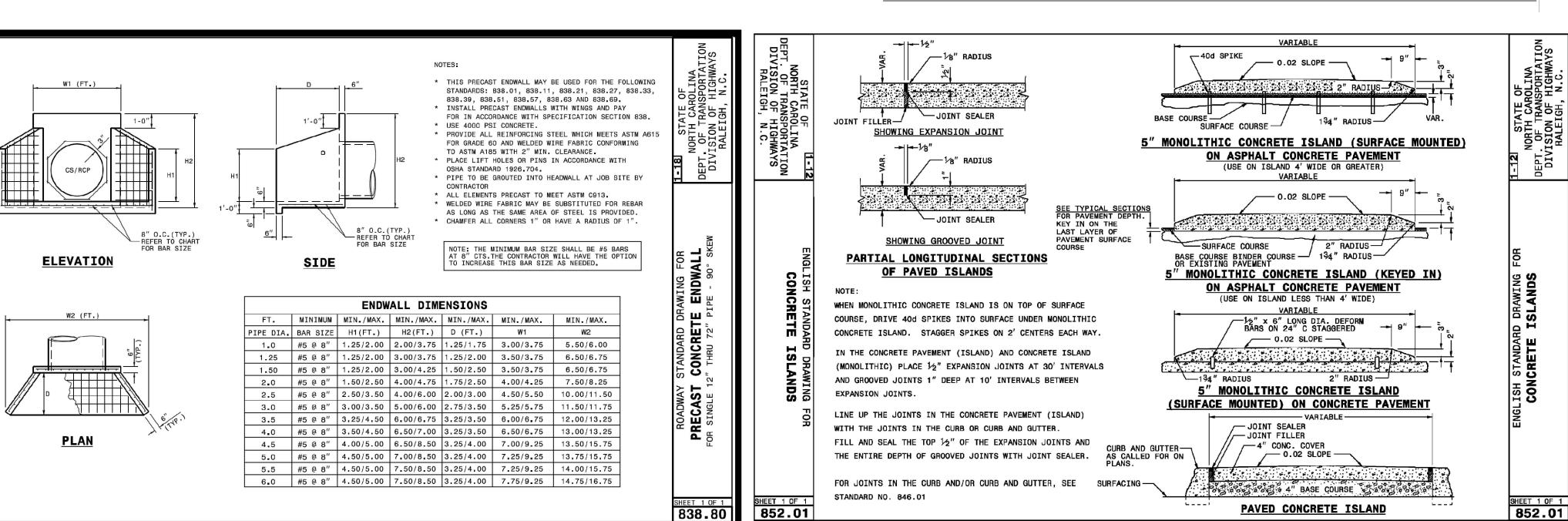
Engineering and

ettle

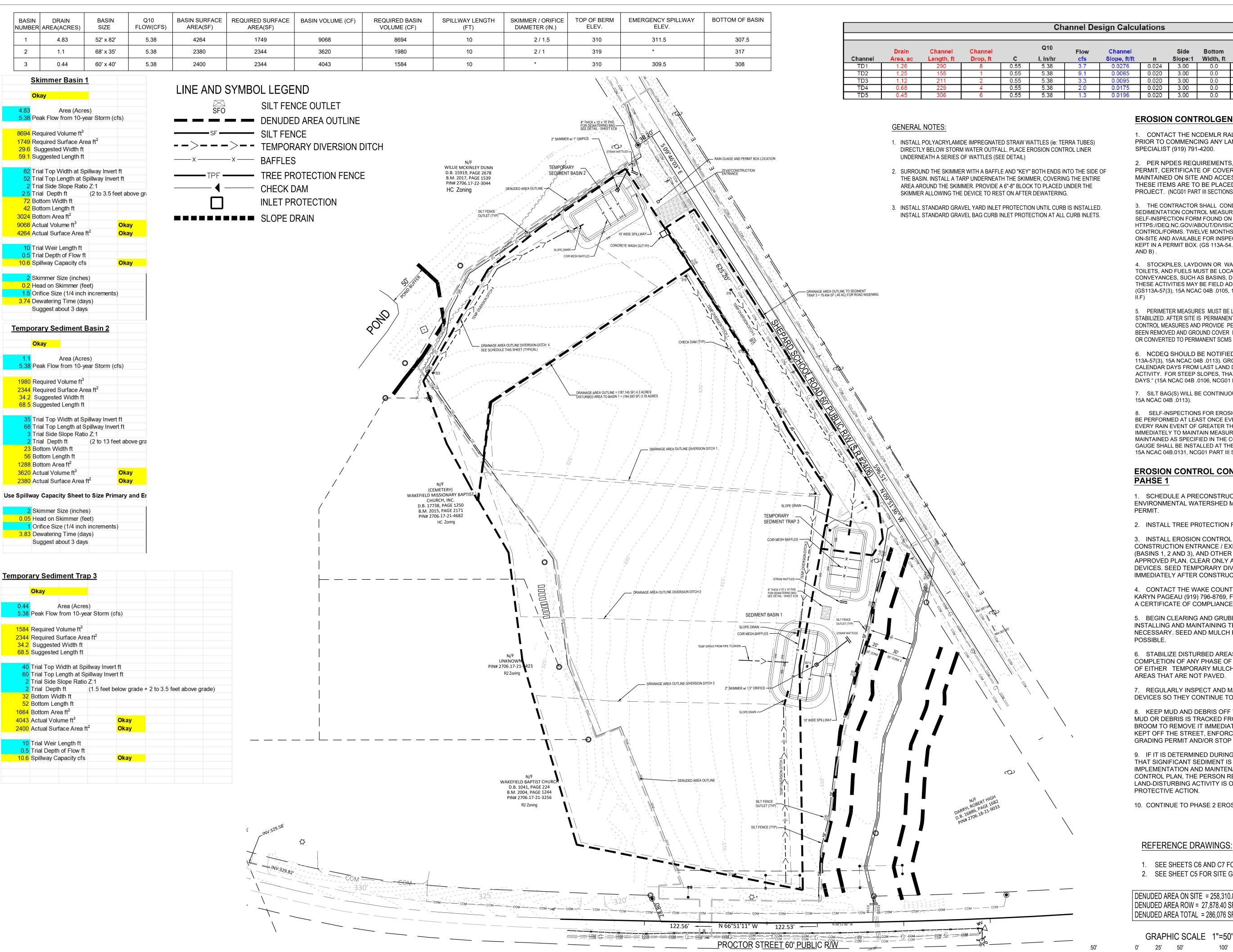
Ü

3616





/ay D(ageMax (1 901 Proctor 9 Wake County, Ø × ש ש NCDOT Stor



EROSION CONTROLGENERAL NOTES

Bottom

0.024 3.00 0.0

3.00

Slope:1 Width, ft Flow, ft

- 1. CONTACT THE NCDEMLR RALEIGH REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY ENVIRONMENTAL SPECIALIST (919) 791-4200.
- 2. PER NPDES REQUIREMENTS, A RAIN GUAGE, SELF INSPECTION RECORDS, PERMIT, CERTIFICATE OF COVERAGE, AND S&E PLANS ARE REQUIRED TO BE MAINTAINED ON SITE AND ACCESSIBLE DURING INSPECTION. IT IS RECOMMENDED THESE ITEMS ARE TO BE PLACED IN A PERMIT BOX AT THE ENTRANCE OF THE PROJECT. (NCG01 PART III SECTIONS A AND B, 15A NCAC 04B .0131)

Jute Mesh

Jute Mesh

Jute Mesh

Jute Mesh

Jute Mesh

- 3. THE CONTRACTOR SHALL CONDUCT SELF-INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES AND COMPETE THE FOLLOWING COMBINED SELF-INSPECTION FORM FOUND ON THE DEMLR WEBSITE
- HTTPS://DEQ.NC.GOV/ABOUT/DIVISIONS/ENERGY-MINERAL-LAND-RESOURCES/EROSION-SEDIMENT CONTROL/FORMS. TWELVE MONTHS OF COMPLETED INSPECTION FORMS SHALL BE KEPT ON-SITE AND AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS RECOMMENDED A COPY BE KEPT IN A PERMIT BOX. (GS 113A-54.1 (E), 15A NCAC 04B.0131, NCG01 PART III SECTIONS A
- 4. STOCKPILES, LAYDOWN OR WASTE AREAS, CONCRETE WASHOUTS, PORTABLE TOILETS, AND FUELS MUST BE LOCATED AT LEAST 50 FEET AWAY FROM ANY OPEN WATER CONVEYANCES, SUCH AS BASINS, DITCHES, STORM DRAIN INLETS, ETC. THE LOCATION OF THESE ACTIVITIES MAY BE FIELD ADJUSTED IF THE DISTANCE REQUIREMENTS ARE MET." (GS113A-57(3), 15A NCAC 04B .0105, 15A NCAC 04B .0106(5), GS113A-57(4), NCG01 SECTION
- 5. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE. SEDIMENT BASINS MAY NOT BE REMOVED OR CONVERTED TO PERMANENT SCMS UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED.
- 6. NCDEQ SHOULD BE NOTIFIED 10-DAYS PRIOR TO REMOVAL OF A BASIN." (GS 113A-57(3), 15A NCAC 04B .0113). GROUND STABILIZATION WILL BE APPLIED WITHIN 14 CALENDAR DAYS FROM LAST LAND DISTURBING ACTIVITY. FOR STEEP SLOPES, THAT AREA MUST BE STABILIZED WITHIN 7 CALENDAR DAYS." (15A NCAC 04B .0106, NCG01 PART II SECTION E (1).
- 7. SILT BAG(S) WILL BE CONTINUOUSLY MONITORED DURING OPERATION. (GS 113A-57(3), 15A NCAC 04B .0113).
- 8. SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL ESC MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. A RAIN GAUGE SHALL BE INSTALLED AT THE PROJECT SITE FOR MONITORING." (GS 113A-54.1 (E), 15A NCAC 04B.0131, NCG01 PART III SECTIONS A AND B)

EROSION CONTROL CONSTRUCTION SEQUENCE -PAHSE 1

1. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL WATERSHED MANAGER. OBTAIN A LAND DISTURBING

2. INSTALL TREE PROTECTION FENCE (TPF).

- 3. INSTALL EROSION CONTROL MEASURES INCLUDING GRAVEL CONSTRUCTION ENTRANCE / EXIT, SEDIMENT TRAPPING MEASURES (BASINS 1, 2 AND 3), AND OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- 4. CONTACT THE WAKE COUNTY ENVIRONMENTAL CONSULTANT KARYN PAGEAU (919) 796-8769, FOR AN ONSITE INSPECTION TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- 5. BEGIN CLEARING AND GRUBBING. PERFORM ROUGH GRADING, INSTALLING AND MAINTAINING TEMPORARY DIVERSIONS AS NECESSARY. SEED AND MULCH PERIMETER SLOPES AS SOON AS POSSIBLE.
- 6. STABILIZE DISTURBED AREAS WITHIN 14 WORKING DAYS AFTER COMPLETION OF ANY PHASE OF GRADING. STABILIZATION CONSISTS OF EITHER TEMPORARY MULCHING OR PERMANENT VEGETATION ON AREAS THAT ARE NOT PAVED.
- 7. REGULARLY INSPECT AND MAINTAIN THE EROSION CONTROL DEVICES SO THEY CONTINUE TO FUNCTION PROPERLY.
- 8. KEEP MUD AND DEBRIS OFF THE PUBLIC STREETS AT ALL TIMES. IF MUD OR DEBRIS IS TRACKED FROM THE SITE, USE A SHOVEL AND BROOM TO REMOVE IT IMMEDIATELY. IF MUD AND DEBRIS ARE NOT KEPT OFF THE STREET, ENFORCEMENT ACTION (REVOKING THE GRADING PERMIT AND/OR STOP WORK ORDER) MAY BE TAKEN.
- 9. IF IT IS DETERMINED DURING THE COURSE OF CONSTRUCTION THAT SIGNIFICANT SEDIMENT IS LEAVING THE SITE DESPITE PROPER IMPLEMENTATION AND MAINTENANCE OF THE APPROVED EROSION CONTROL PLAN, THE PERSON RESPONSIBLE FOR THE LAND-DISTURBING ACTIVITY IS OBLIGATED TO TAKE ADDITIONAL PROTECTIVE ACTION.
- 10. CONTINUE TO PHASE 2 EROSION CONTROL ACTIVITIES.

REFERENCE DRAWINGS:

- SEE SHEETS C6 AND C7 FOR STORM DRAIN SCHEDULE.
- 2. SEE SHEET C5 FOR SITE GRADING NOTES.

| DENUDED AREA ON SITE = 258,310.80 SF (5.93 AC) DENUDED AREA ROW = 27,878.40 SF (.64 AC) DENUDED AREA TOTAL = 286,076 SF (6.57 AC)

GRAPHIC SCALE 1"=50'

D esig and ering ngine

616

Ш

Φ

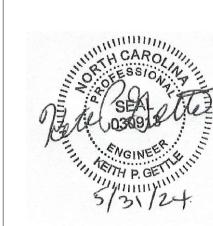
ettle

C

| BY | BY | BY | KP(| K



Control Plan <u>ි</u> 98 Erosion Φ 0 **Q** Phase



Control Plan (1098359)

- 3. SEE SHHETS C8, C9 AND C10 FOR THE UTILITY PLAN.

STOCKPILE DESIGN CRITERIA

THE OUTER LIMIT OF THIS EASEMENT).

. STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE

AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE.

2. A 25-FOOT TEMPORARY MAINTENANCE AND ACCESS EASEMENT SHALL BE SHOWN AROUND ALL PROPOSED STOCKPILES (EROSION CONTROL MEASURES SURROUNDING THE STOCKPILE SHALL BE SHOWN AT

- 3. STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES.
- STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.
- 5. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.
- 6. STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE
- ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP.
- 8. OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL, PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND ON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY SUBSECTION 14-19-2 OF THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE (CERTIFICATIONS AND PERMITS REQUIRED).
- 9. SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
- 10. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW
- 11. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
- 12. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE

0

EROSION CONTROL CONSTRUCTION SEQUENCE - PHASE 2

- 1. INSTALL THE STORM DRAINAGE SYSTEM AND INLET PROTECTION, PROTECTING PIPE OPENINGS AND UNCOVERED STRUCTURES AS SHOWN.
- 2. INSTALL SANITARY SEWER SYSTEM SEPTIC FIELD / TANKS AND WATER LINE PIPING PER UTILITY PLAN. **ENSURE EXISTING UTILITES ARE PROTECTED DURING** CONSTRUCTION ACTIVITIES.
- 3. BEGIN ROADWORK IN SHEPARD SCHOOL ROAD. CONTACT NCDOT FOR INSPECTIONS AS REQUIRED.
- 4. STABILIZE DISTURBED AREAS WITHIN 14 WORKING DAYS AFTER COMPLETION OF ANY PHASE OF GRADING. STABILIZATION CONSISTS OF EITHER TEMPORARY MULCHING OR PERMANENT VEGETATION ON AREAS THAT ARE NOT PAVED.
- 5. REGULARLY INSPECT AND MAINTAIN THE EROSION CONTROL DEVICES SO THEY CONTINUE TO FUNCTION PROPERLY.

6. KEEP MUD AND DEBRIS OFF THE PUBLIC STREETS

- AT ALL TIMES. IF MUD OR DEBRIS IS TRACKED FROM THE SITE, USE A SHOVEL AND BROOM TO REMOVE IT IMMEDIATELY. IF MUD AND DEBRIS ARE NOT KEPT OFF THE STREET, ENFORCEMENT ACTION (REVOKING THE GRADING PERMIT AND/OR STOP WORK ORDER) MAY BE
- 7. IF IT IS DETERMINED DURING THE COURSE OF CONSTRUCTION THAT SIGNIFICANT SEDIMENT IS LEAVING THE SITE DESPITE PROPER IMPLEMENTATION AND MAINTENANCE OF THE APPROVED EROSION CONTROL PLAN, THE PERSON RESPONSIBLE FOR THE LAND DISTURBING ACTIVITY IS OBLIGATED TO TAKE ADDITIONAL PROTECTIVE ACTION.
- 8. CONTINUE TO PHASE 3 ACITIVITES.

TAKEN.

REFERENCE DRAWINGS:

- 1. SEE SHEETS C6 AND C7 FOR STORM DRAIN SCHEDULE.
- 2. SEE SHEET C5 FOR DETAILED SITE GRADING NOTES.

GRAPHIC SCALE 1"=50'

Project No. 23001

Phase 2 - Erosion Cc StorageMax (10 901 Proctor St Zebulon, Wake County, N

AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE. STOCK PILE AREA SEE NOTE (CEMETERY) CHURCH, INC. D.B. 17738, PAGE 1250 SLOPE DRAIN -RESPONSIBLE PARTY FOR THAT STOCKPILE. B.M. 2015, PAGE 2171 PIN# 2706.17-21-4682 TEMPORARY HC Zoning SEDIMENT TRAP 3 STAGED SEEDING AND COIR MESH BAFFLES OF THE SLOPE (WHERE PRACTICAL). 8" THICK x 10' x 15' PAD FOR DEWATERING BAG SEE DETAIL - SHEET EC6 SEDIMENT BASIN 1 UNKNOWN PIN# 2706.17-21-4423 R2 Zoning 10' WIDE SPILLWAY-

46.83.85 46.86 46.86 61.88

PROCTOR STREET 60' PUBLIC RIW

(S.R.#2320)

WAKEFIELD BAPTIST CHURCH

D.B. 1041, PAGE 224

B.M. 2004, PAGE 1244

PIN# 2706.17-21-3256

10' WIDE SPILLWAY —

WILLIE MCKINLEY DUNN

D.B. 15919, PAGE 2678 B.M. 2017, PAGE 1539 PIN# 2706.17-22-3044

HC Zoning

LINE AND SYMBOL LEGEND

SLOPE DRAIN

SILT FENCE OUTLET

DENUDED AREA OUTLINE

TREE PROTECTION FENCE

INLET PROTECTION

-->-- TEMPORARY DIVERSION DITCH

CHECK DAM

(S.R.#2320)

CONSTRUCTION SEQUENCE - PHASE 3

- AND COMPACT STONE IN THE ROADWAYS AND PARKING LOT. REMOVE THE
- 3. COMPLETE FINE GRADING AND STABILIZE DISTURBED AREAS AS SOON AS
- 4. ONCE THE SITE IS STABILIZED AND APPROVAL FROM STORMWATER INSPECTIONS TO SCHEDULE THE REMOVAL OF THE SEDIMENT BASINS (SEE NOTES BELOW). DEWATER SEDIMENT BASIN USING A SILT BAG AND MUCK OUT REMAINING SEDIMENT.
- RIPRAP APRON. CONTACT PROJECT ENGINEER TO INSPECT DURING INSTALLATION PROCESS. SURVEY INVERT ELEVATIONS FOR AS-BUILT INFORMATION REQUIRED BY THE TOWN OF ZEBULON AND WAKE COUNTY.
- GROUND COVER SHALL BE PROVIDED AS FOLLOWS: A. STABILIZE BASINS WITH GROUND COVER IMMEDIATELY AFTER
- OR MORE WITH TEMPORARY SEEDING AND EROSION CONTROL NETTING. C. FOR ALL AREAS OF MODERATE AND/OR STEEP SLOPES, PROVIDE TEMPORARY GROUND COVER IF THE SLOPE HAS NOT BEEN DISTURBED FOR A
- D. PROVIDE GROUND COVER SUFFICIENT TO RESTRAIN EROSION ON ANY PORTION OF THE SITE UPON WHICH FURTHER LAND-DISTURBING ACTIVITY IS NOT BEING UNDERTAKEN WITHIN FOURTEEN (14) CALENDAR DAYS OF TEMPORARILY OR PERMANENTLY SUSPENDING LAND DISTURBING ACTIVITY E. ESTABLISH PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN CONSTRUCTION OR DEVELOPMENT AND/OR PRIOR TO FINAL INSPECTION.
- REMOVED, THE SITE IS STABILIZED, CONTACT THE WAKE COUNTY ENVIRONMENTAL CONSULTANT, KARYN PAGEAU AT (919) 796-8769, TO SCHEDULE A STORMWATER INSPECTION.

REQUIRED WAKE COUNTY BASIN REMOVAL SEQUENCE

- KARYN PAGEAU AT (919) 796-8769, TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
- 2. CONTACT NCDEQ RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO RECEIVE DEWATERING NOTIFICATIONS. AT LEAST 10 DAYS PRIOR TO BEGINNING DEWATERING ACTIVITY, SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENTAL CONSULTANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE: E&SC JURISDICTION: WAKE COUNTY, WAKE COUNTY PROJECT: NAME, NUMBER, AND LOCATION (CITY/TOWN), ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A)REASON FOR CONVERSION, B)BASIN #, C)DEWATERING METHOD, AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION G, ITEM 4 OF THE NCG01.(KEEP EMAIL FOR YOUR NPDES MONITORING DOCUMENTATION)
- 3. AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMLR THAT YOU MAY REMOVE THE BASIN OR ON > DAY 11, WHICHEVER IS SOONER. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
- RESULTING BARE AREAS IMMEDIATELY.
- 6. WHEN SITE IS FULLY STABILIZED, CALL WAKE COUNTY ENVIRONMENTAL CONSULTANT, JEEVAN NEUPANE AT (919) 819-8907, FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION. NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE

REFERENCE DRAWINGS:

- 1. SEE SHEET C6 AND C7 FOR STORM DRAIN SCHEDULE.
- 2. SEE SHEET C5 FOR DETAILED SITE GRADING NOTES.
- 3. SEE SHHETS C8, C9 AND C10 FOR THE UTILITY PLAN.
- 4. SEE SHEET D3 FOR BMP DETAILS.

Control (098359) Phase 3

Plan

PLL

Design,

Engineering and

Gettle

| KPG | KPG

Project No. 23001

Dwg No.

1. CONSTRUCT CONCRETE CURB IN ROADWAYS AND PARKING LOT. PLACE GRAVEL ENTRACE.

2. INSTALL SILT BAGS AT CURB AND DROP INLETS.

5. BEGIN INSTALLATION OF THE BMP, RISER AND DISCHARGE PIPE TO INCLUDE

6. GRADE ANY REMAINING AREAS TO FINAL GRADE. UPON COMPLETION THE

B. STABILIZE DIVERSION DITCHES INTENDED TO BE IN SERVICE FOR 30 DAYS PERIOD OF FOURTEEN (14) DAYS.

EROSION WITHIN FOURTEEN (14) CALENDAR DAYS FOLLOWING COMPLETION OF

7. ONCE THE BMP INSTALLATION IS COMPLETE, TEMPORARY MEASURES ARE

1. SCHEDULE A SITE MEETING WITH THE WAKE COUNTY ENVIRONMENTAL,

- 4. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY
- 5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
- CONVERTED FOR STORMWATER USE.

PROCTOR STREET 60' PÜBLIC RW (S.R.#2320)

CONSTRUCTION SEQUENCE - PHASE 4

1. ENSURE THE SITE IS COMPLIANT WITH THE NCG01 SELF INSPECTION AND GROUND STABILIZATION AND MATERIAL HANDLING.

2. FOR ALL AREAS OF MODERATE AND / OR STEEP SLOPES, PROVIDE TEMPORARY GROUND COVER IF THE SLOPE HAS NOT BEEN DISTURBED FOR A PERIOD OF FOURTEEN (14) DAYS.

3. PROVIDE GROUND COVER SUFFICIENT TO RESTRAIN EROSION ON ANY PORTION OF THE SITE UPON WHICH FURTHER LAND-DISTURBING ACTIVITY IS NOT BEING UNDERTAKEN WITHIN FOURTEEN (14) CALENDAR DAYS OF TEMPORARILY OR PERMANENTLY SUSPENDING LAND DISTURBING ACTIVITY.

4. REMOVE SILT FENCE AND TREE PROTECTION FENCING WHEN GRADING ACTIVITIES ARE COMPLETE AND THE PROJECT SITE IS STABLIIZED.

5. ONCE THE BMP INSTALLATION IS COMPLETE, TEMPORARY MEASURES ARE REMOVED, THE SITE IS STABILIZED, CONTACT THE WAKE COUNTY ENVIRONMENTAL CONSULTANT KARYN PAGEAU AT (919) 796-8769 TO SCHEDULE A STORMWATER FINAL INSPECTION. BMP CERTIFICATIONS AND AS-BUILT PLANS MUST BE PROVIDED TO WAKE COUNTY / TOWN OF ZEBULON PRIOR TO FINAL PLATTING.

6. ONCE THE STORMWATER FINAL INSPECTION IS APPROVED, CLOSE THE GRADING PERMIT AND OBTAIN A CERTIFICATE OF COMPLETION.

NPDES NOTES

- 1. THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG010000.
- 2. THIS PAGE CAN BE APPROVED BY THE CITY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY.
- 3. THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.
- 4. THE CITY / COUNTY IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT IS NOT A PART OF THE APPROVED PLANS FOR PURPOSES OF ENFORCEMENT ACTION UNDER THE CITY / COUNTY CODE.
- 5. DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY SHALL BE SUBMITTED TO WAKE COUNTY.

NPDES GROUND STABILIZATION SCHEDULE

NPDE2	GROUND	STABILIZATION	N SCHEDULE
SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS	APPLICABLE AREA ON THIS SITE
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED	NONE
SLOPES 3:1 OR FLATTER	14 DAYS	7-DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH	AS SHOWN
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)	REMAINDER OF SITE

REFERENCE DRAWINGS:

- SEE SHEET C6 AND C7 FOR STORM DRAIN SCHEDULE.
- SEE SHEET C5 FOR DETAILED SITE GRADING NOTES.
- SEE SHHETS C8, C9 AND C10 FOR THE UTILITY PLAN.
- 4. SEE SHEET D3 FOR BMP DETAILS.

Gettle Engineering and Design, PLLC

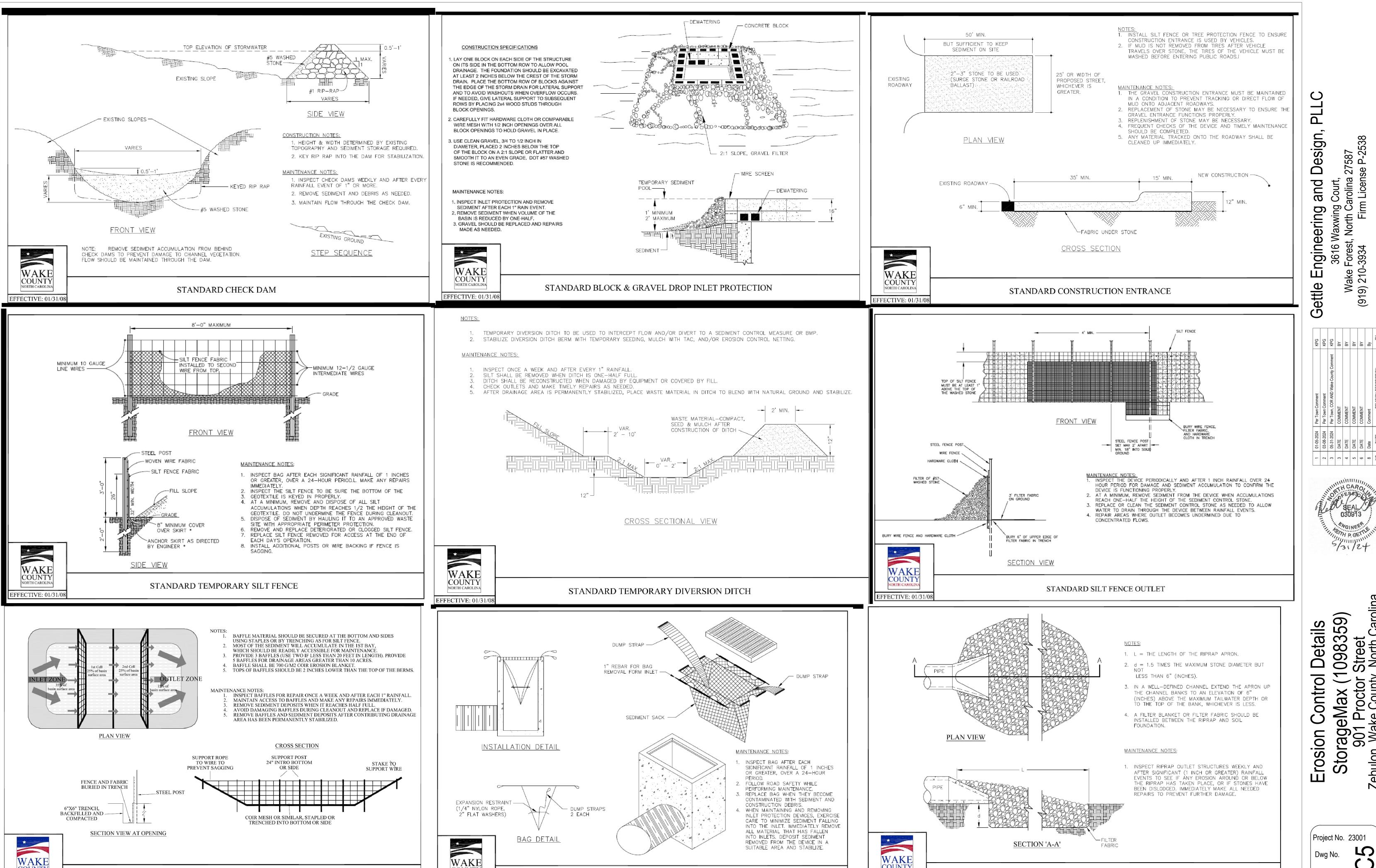
1	01-05-2024	Per Town Comment	KPG	
2	03-08-2024	Per Town Comment	KPG	
3	05-31-2024	Per Town Comment	KPG	
3	DATE	COMMENT	BY	
4	DATE	COMMENT	BY	
5	DATE	COMMENT	BY	
6	DATE	COMMENT	BY	
8	Date	Comment	By	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
1	OATE	COMMENT	BY	
1	OATE	COMMENT	BY	
2	OATE	COMMENT	BY	
3	OATE	COMMENT	BY	
4	DATE	COMMENT	BY	
5	DATE	COMMENT	BY	
6	DATE	COMMENT	BY	
7	OATE	COMMENT	BY	
8	DATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	BY	
9	OATE	COMMENT	COMMENT	
9	OATE	COMMENT	COMMENT	
9	OATE	COMMENT	COMMENT	
9	OATE	COMMENT	COMMENT	
9	OATE	COMMENT	COMMENT	
9	OATE	COMMENT	COMMENT	
9	OATE	COMMENT	COMMENT	
9	OATE	COMMENT	COMMENT	COMMENT
9	OATE	COMMENT	COMMENT	COMMENT
9	OATE	COMMENT	COMMENT	
9	OATE	COMMENT		



Phase 4 - Erosion Control Plan StorageMax (1098359) 901 Proctor Street

Project No. 23001

GRAPHIC SCALE 1"=50'



STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE

COUNTY

EFFECTIVE: 01/31/0

COUNTY

NORTH CAROLIN

EFFECTIVE: 01/31/08

STANDARD BAFFLES DETAIL

COUNTY

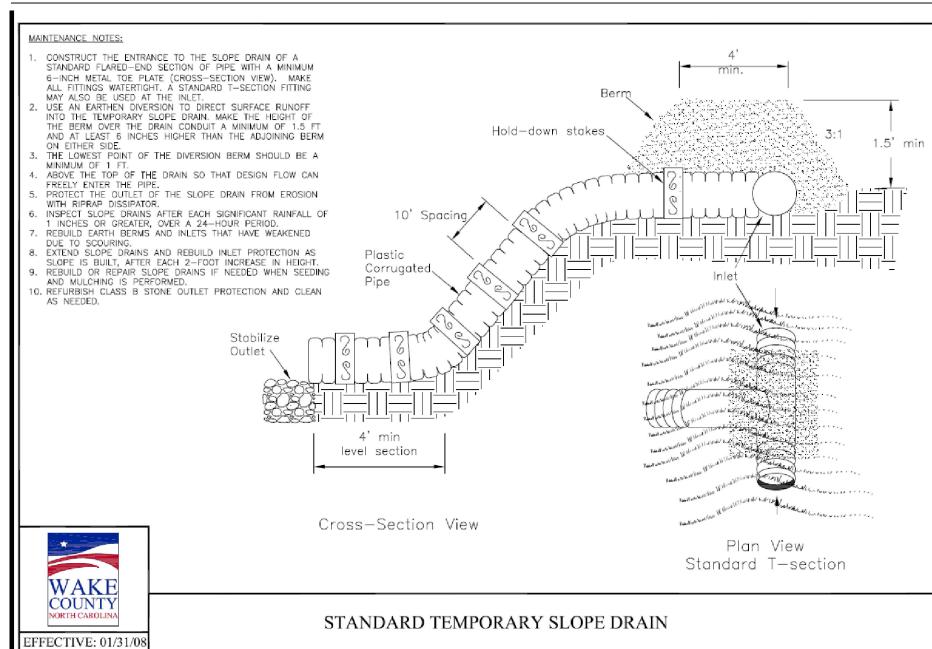
NORTH CAROLINA

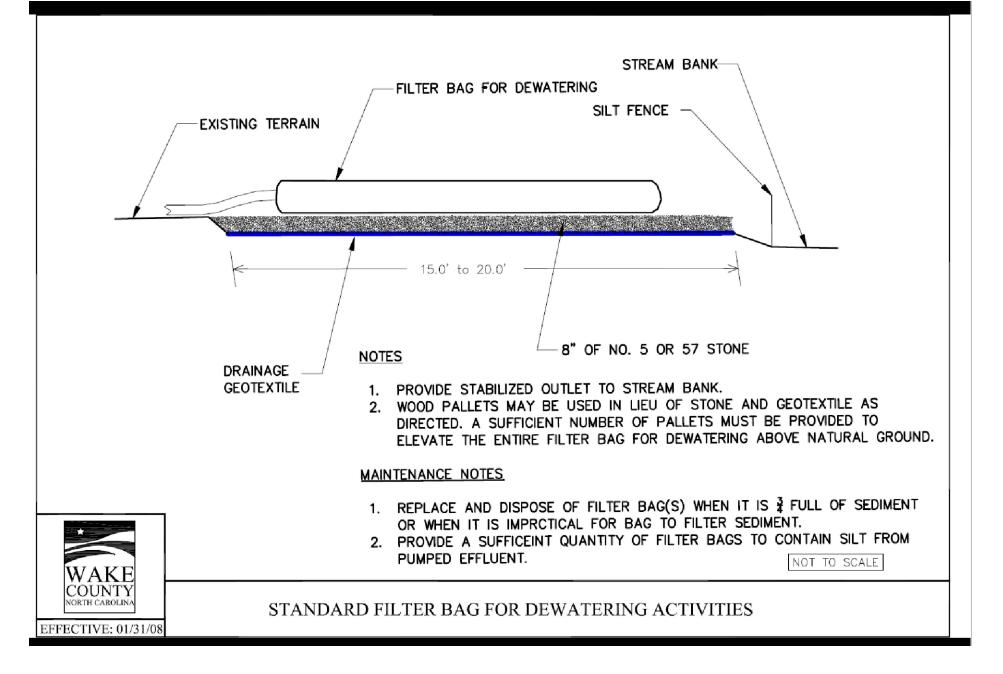
EFFECTIVE: 01/31/08

STANDARD PIPE OUTLET TO WELL-DEFINED CHANNEL

27 Engineering a 3616 Waxwing (ake Forest, North Ca 210-3934 Firm

098359) Details Max (10)
Proctor S
e County, I Control StorageMa 901 Pro bulon, Wake C





BASIN CONSTRUCTION SPECIFICATIONS

1. SITE PREPARATIONS- CLEAR, GRUB, AND STRIP TOPSOIL FROM AREAS UNDER THE EMBANKMENT TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. DELAY CLEARING THE POOL AREA UNTIL THE DAM IS COMPLETE AND THEN REMOVE BRUSH, TREES, AND OTHER OBJECTIONABLE MATERIALS TO FACILITATE SEDIMENT CLEANOUT STOCKPILE ALL TOPSOIL OR SOIL CONTAINING ORGANIC MATTER FOR USE ON THE OUTER SHEI OF THE EMBANKMENT TO FACILITATE VEGETATIVE ESTABLISHMENT. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW THE BASIN AS NEEDED.

2. CUT-OFF TRENCH- EXCAVATE A CUT-OFF TRENCH ALONG THE CENTER LINE OF THE EARTH FI EMBANKMENT. CUT THE TRENCH TO STABLE SOIL MATERIAL, BUT IN NO CASE MAKE IT LESS THAN 2 FEET DEEP. THE CUT-OFF TRENCH MUST EXTEND INTO BOTH ABUTMENTS TO AT LEAST THE ELEVATION OF THE RISER CREST. MAKE THE MINIMUM BOTTOM WIDTH WIDE ENOUGH TO PERMIT OPERATION OF EXCAVATION AND COMPACTION EQUIPMENT, BUT IN NO CASE LESS THAN 2 FEET. MAKE SIDE SLOPES OF THE TRENCH NO STEEPER THAN 1:1. COMPACTION REQUIREMENTS ARE THE SAME AS THOSE FOR THE EMBANKMENT. KEEP THE TRENCH DRY DURING BACKFILLING AND COMPACTION OPERATIONS.

3. EMBANKMENT- TAKE FILL MATERIAL FROM THE APPROVED AREAS SHOWN ON THE PLANS. IT SHOULD BE CLEAN MINERAL SOIL, FREE OF ROOTS, WOODY VEGETATION, ROCKS, AND OTHE OBJECTIONABLE MATERIAL. SCARIFY AREAS ON WHICH FILL IS TO BE PLACED BEFORE PLACING FILL. THE FILL MATERIAL MUST CONTAIN SUFFICIENT MOISTURE SO IT CAN BE FORMED BY HAN INTO A BALL WITHOUT CRUMBLING. IF WATER CAN BE SQUEEZED OUT OF THE BALL, IT IS TOO WET FOR PROPER COMPACTION. PLACE FILL MATERIAL IN 6 TO 8 INCH CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF THE FILL AREA AND COMPACT IT. COMPACTION MAY BE OBTAINED BY ROUTING THE CONSTRUCTION HAULING EQUIPMENT OVER THE FILL SO THAT THE ENTIRE SURFACE OF EACH LAYER IS TRAVERSED BY AT LEAST ONE WHEEL OR TREAD TRACK OF HEAVY EQUIPMENT, OR A COMPACTOR MAY BE USED. CONSTRUCT THE EMBANKMENT TO AN ELEVATION 10 PERCENT HIGHER THAN THE DESIGN HEIGHT TO ALLOW FOR SETTLING.

4. CONDUIT SPILLWAYS- SECURELY ATTACH THE RISER TO THE BARREL OR BARREL STUB TO MAKE A WATERTIGHT STRUCTURAL CONNECTION. SECURE ALL CONNECTIONS BETWEEN BARF SECTIONS BY APPROVED WATERTIGHT ASSEMBLIES. PLACE THE BARREL AND RISER ON A FIRM SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE OR ANTI-SEEP COLLARS. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS, AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES. PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. ANCHOR THE RISER IN PLACE BY CONCRETE OR OTHER SATISFACTORY MEANS TO PREVENT FLOTATION. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.

5. EMERGENCY SPILLWAY- INSTALL THE EMERGENCY SPILLWAY IN UNDISTURBED SOIL. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE EMERGENCY SPILLWAY.

6. INLETS- DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT-LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY (REFERENCES: RUNOFF CONTROL MEASURES AND OUTLET PROTECTION).

7. EROSION CONTROL- CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION (REFERENCES: SURFACE STABILIZATION).

8. INSTALL POROUS BAFFLES .

9. SAFETY- SEDIMENT BASINS MAY ATTRACT CHILDREN AND CAN BE DANGEROUS. AVOID STEEP SIDE SLOPES, AND FENCE AND MARK BASINS WITH WARNING SIGNS IF TRESPASSING IS LIKELY. FOLLOW ALL STATE AND LOCAL REQUIREMENTS.

BASIN DEWATERING SPECIFICATIONS

- * SEDIMENT FILTER BAGS ARE SPECIFICALLY DESIGNED TO CONTROL PUMPED WATER AND CONNECT DIRECTLY TO THE PUMP DISCHARGE LINE. * BAGS SHOULD BE PLACED ON A LEVEL, STABLE SURFACE THAT IS PREPARED WITH MULCH, STRAW, SMALL AGGREGATE, OR OTHER MATERIAL AS RECOMMENDED BY THE MANUFACTURER. THE BAG SHOULD BE MADE OF A NON-WOVEN, NEEDLE-PUNCHED, GEOTEXTILE THAT MEETS THE FOLLOWING MINIMUM CRITERIA: 205 LBS MINIMUM TENSILE STRENGTH USING ASTM
- GEOTEXTILES. * 130 LBS MINIMUM PUNCTURE STRENGTH USING ASTM D4833 TEST METHOD FOR INDEX PUNCTURE RESISTANCE OF GEOTEXTILES, GEOMEMBRANES, AND RELATED PRODUCTS.

D4632 TEST METHOD FOR GRAB BREAKING LOAD AND ELONGATION OF

400 PSI MINIMUM MULLEN BURST STRENGTH USING ASTM D3786 STANDARD TEST METHOD FOR HYDRAULIC BURSTING STRENGTH OF TEXTILE FABRICS-DIAPHRAGM BURSTING STRENGTH TESTER METHOD. * MINIMUM 70 PERCENT AT 500 HOURS ULTRAVIOLET RESISTANCE USING ASTM

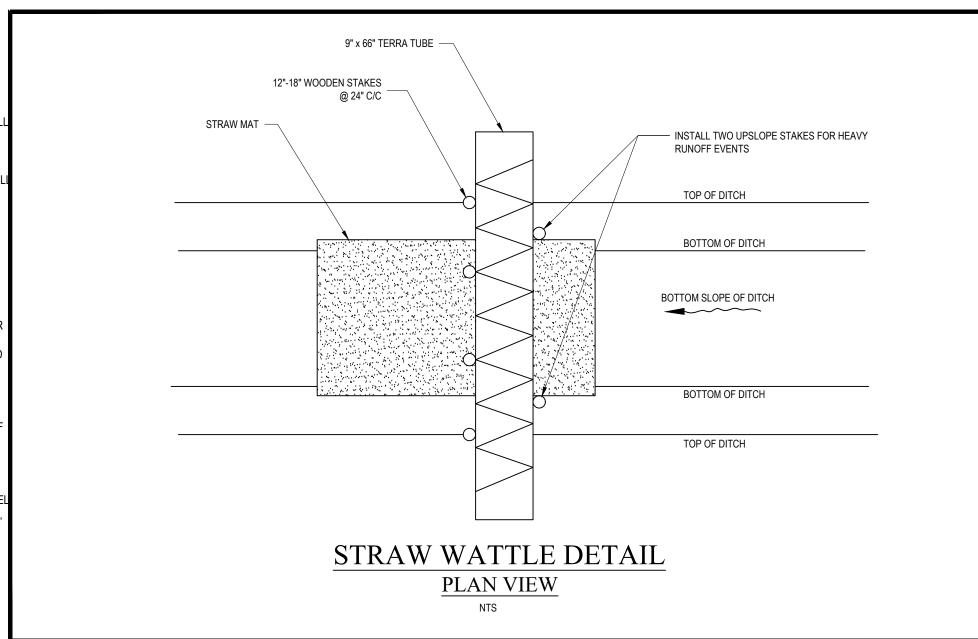
D4355 STANDARD TEST METHOD FOR DETERIORATION OF GEOTEXTILES BY

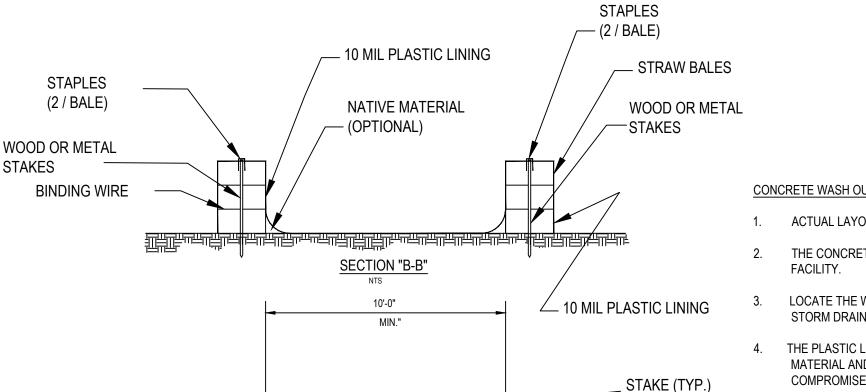
APPARATUS * 85 TO 110 GPM/FT2 WATER FLOW RATE USING ASTM D4491 STANDARD TEST METHODS FOR WATER PERMEABILITY OF GEOTEXTILES BY PERMITTIVITY.

EXPOSURE TO LIGHT, MOISTURE, AND HEAT IN A XENON ARC TYPE

DEWATERING PUMP

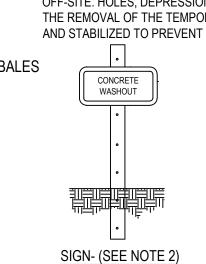
* THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR ½ THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

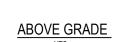




MATERIAL AND FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT MAY COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

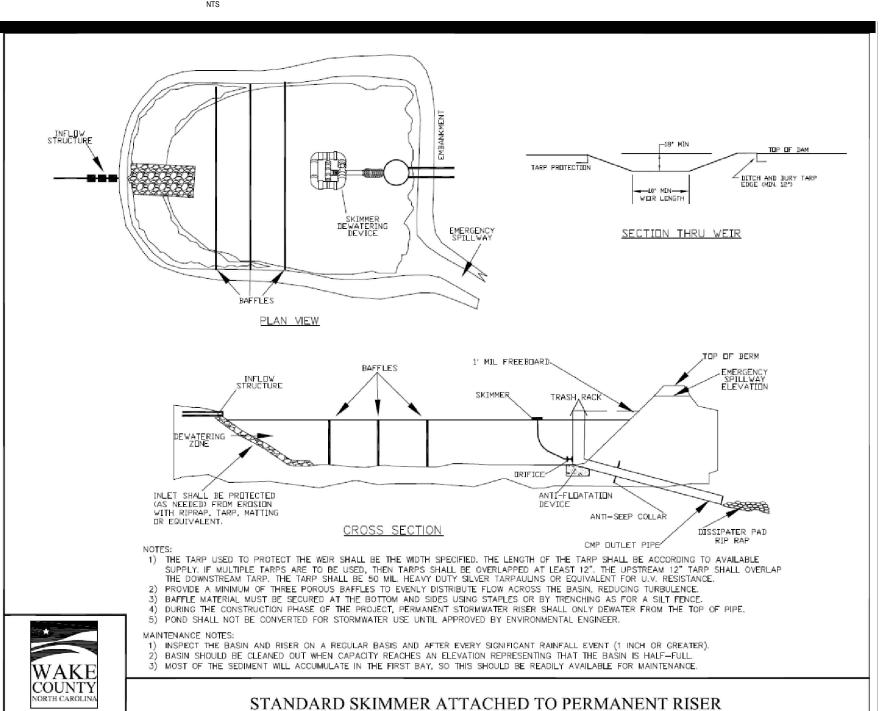
WHEN THE FACILITY IS NO LONGER REQUIRED THE HARDENED CONCRETE. SLURRIES AND LIQUIDS SHALL BE PROPERLY DISPOSED OF OFF-SITE. MATERIAL USED TO CONSTRUCT THE FACILITY SHALL BE PROPERLY DISPOSED OF OFF-SITE. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY FACILITY SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.





0 0

TEMPORARY CONCRETE WASHOUT AREA



SEEDBED PREPARATION:

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.

2. RIP THE ENTIRE AREA TO SIX INCHES DEEP. 3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM. 4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE MIXTURE BELOW). 5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP. 6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING. 7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.

8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING 9. CONSULT ENGINEER OR LANDSCAPE ARCHITECT ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS

ESTABLISHED. MIXTURE:

AGRICULTURAL LIMESTONE: 2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS) 1.000 LBS/ACRE - 10-10-10 FFRTII IZFR: 500 LBS/ACRE - 20% ANALYSIS SUPERPHOSPHATE 2 TONS/ACRE - SMALL GRAIN STRAW MUI CH: ANCHOR: ASPHALT EMULSION AT 300 GALS/ACRE

SEEDING SCHEDULE FOR SHOULDERS, SIDE DITCHES, SLOPES (MAX 3:1):

MAR 1 - JUN 30 OR ADD WEEPING LOVE GRASS

AND ABRUZZI RYE

AUG 15 - NOV 1 TALL FESCUE NOV 1 - MAR 1 TALL FESCUE & ABRUZZI RYE 300 LBS/ACRE MAR 1 - APR 15 300 LBS/ACRE APR 15-JUN 30 HULLED COMMON BERMUDAGRASS 25 LBS/ACRE TALL FESCUE AND BROWNTOP MILLET 125 LBS/ACRE (TALL FESCUE); OR SORGHUM-SUDAN HYBRIDS*** 35 LBS/ACRE (BROWNTOP MILLET);

30 LBS/ACRE (SORGHUM-SUDAN HYBRIDS) FOR SHOULDERS, SIDE DITCHES, SLOPES (3:1 TO 2:1):

<u>PLANTING RATE</u> 50 LBS/ACRE (SERICEA LESPEDEZA) SERICEA LESPEDEZA (SCARIFIED) AND USE THE FOLLOWING COMBINATIONS: MAR 1 - APR 15 ADD TALL FESCUE 120 LBS/ACRE

> OR ADD HULLED COMMON 25 LBS/ACRE BERMUDAGRASS TALL FESCUE AND BROWNTOP MULLET 120 LBS/ACRE (TALL FESCUE); 35 LBS/ACRE (BROWNTOP MULLET); OR SORGHUM-SUDAN HYBRIDS***

10 LBS/ACRE

25 LBS/ACRE

30 LBS/ACRE (SORGHUM-SUDAN HYBRIDS) 70 LBS/ACRE (SERICEA LESPEDEZA); SEPT 1 - MAR 1 SERICEA LESPEDEZA (UNHULLED UNSCARIFIED) AND TALL FESCUE 120 LBS/ACRE (TALL FESCUE)

CONSULT ENGINEER OR LANDSCAPE ARCHITECT FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE THAT DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE

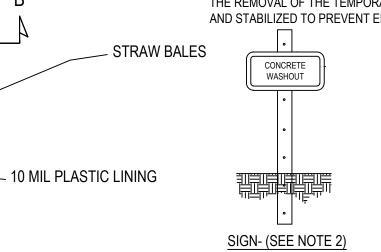
*** TEMPORARY: RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW MORE THAN 12" IN HEIGHT BEFORE MOWING; OTHERWISE, FESCUE MAY BE SHADED OUT.

CONCRETE WASH OUT AREA NOTES:

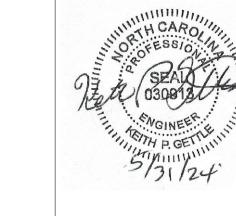
- ACTUAL LAYOUT DETERMINED IN THE FIELD SEE EC1 PLAN FOR LOCATION.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE

NOV 1 - MAR 1

- LOCATE THE WASHOUT AREA AT LEAST 50-FEET FROM SENSITIVE AREAS SUCH AS STORM DRAINS, OPEN DITCHES OR WATER BODIES, INCLUDING WETLANDS.
- THE PLASTIC LINING MATERIAL SHOULD BE A MIN OF 10 MIL. POLYETHLENE



EFFECTIVE: 01/31/1



7

Design,

and

Engineering

ettle

9

3616 V Forest, 3934

| B | B | B | KP(| KP(

Details 098359) 0

Project No. 23001

Control Erosion Stor

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the elegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

Temporary and Permanent Groundcover*

	ZATION TIMEFRA fective Aug. 3, 2011)	MES
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zone

*-For Falls Lake watershed, in disturbed areas where grading activities are incomplete, provide temporary groundcover no later than seven (7) days for slopes steeper than 3:1; ten (10) days for slopes equal to or flatter than 3:1; fourteen (14) days for areas with no slope.

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the

techniqu	es in the	table bei	ow:		
	Temp	orary Stal	oilizat	tion	
_					

- Permanent Stabilization
- Temporary grass seed covered with straw or Permanent grass seed covered with straw or other mulches and tackifiers
- other mulches and tackifiers Hydroseeding Geotextile fabrics such as permanent soil
- Hydroseeding temporary grass seed Shrubs or other permanent plantings covered Appropriately applied straw or other mulch Plastic sheeting with mulch
- Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls

POLYACRYLAMIDES (PAMS) AND FLOCCULANT

Select flocculants that are appropriate for the soils being exposed during

- construction, selecting from the NC DWR List of Approved PAMS/Flocculants. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures. Apply flocculants at the concentrations specified in the NC DWR List of Approved
- PAMS/Flocculants and in accordance with the manufacturer's instructions. Provide ponding area for containment of treated Stormwater before discharging
- 5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.



EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids. Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the
- Collect all spent fluids, store in separate containers and properly dispose as
- hazardous waste (recycle when possible). Remove leaking vehicles and construction equipment from service until the problem
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers. 2. Provide a sufficient number of waste containers on site to manage the quantity of waste produced.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available. Locate waste containers on areas that do not receive substantial amounts of runoff
- from upland areas and does not drain directly to a storm drain, stream or wetland. 5. Cover waste containers at the end of each workday and before storm events. Repair
- or replace damaged waste containers.
- 6. Anchor all lightweight items in waste containers during times of high winds. 7. Empty waste containers as needed to prevent overflow.

Dispose waste off-site at an approved disposal facility.

PAINT AND OTHER LIQUID WASTE

- Do not dump paint and other liquid waste into storm drains, streams or wetlands. Locate paint washouts at least 50 feet away from storm drain inlets and surface
- waters unless no other alternatives are reasonably available. Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place
- on a gravel pad and surround with sand bags. Provide staking or anchoring of portable toilets during periods of high winds or in high
- Monitor portable toilets for leaking and properly dispose of any leaked material.

Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

CCHORETE CLEARLY MARKED SIGNAGE NOTING DEVICE (18'X24" MIN.) 3,CONCRETE WASHOUT STRUCTURE NEEDS TO B CLEARY MARKED WITH SIGNAGE NOTING DEVICE

CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
 - Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility. Manage washout from mortar mixers in accordance with the above item and in
- addition place the mixer and associated materials on impervious barrier and within
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two
- types of temporary concrete washouts provided on this detail. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or
- discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum,
- install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow. Locate washouts in an easily accessible area, on level ground and install a stone
- entrance pad in front of the washout. Additional controls may be required by the Install at least one sign directing concrete trucks to the washout within the project
- limits. Post signage on the washout itself to identify this location. Remove leavings from the washout when at approximately 75% capacity to limit
- overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- 10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

Store and apply herbicides, pesticides and rodenticides in accordance with label

- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water

or surface water. If a spill occurs, clean area immediately. 4. Do not stockpile these materials onsite.

IAZARDOUS AND TOXIC WASTE Create designated hazardous waste collection areas on-site.

- Place hazardous waste containers under cover or in secondary containment.
- 3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

(1) Rain	Frequency (during normal business hours)	Inspection records must include [40 CFR 122.41]: Daily rainfall amounts.
(1) Kall gauge maintained in good working order	Daily	If no daily rain gauge observations are made du weekend or holiday periods, and no individual-day rai information is available, record the cumulative measurement for those un-attended days (and this determine if a site inspection is needed). Days on whic rainfall occurred shall be recorded as "zero." permittee may use another rain-monitoring deapproved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	 Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Corrective actions taken, and Date of actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	 Identification of the discharge outfalls inspected, Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such oil sheen, floating or suspended solids or discolorat Indication of visible sediment leaving the site, Actions taken to correct/prevent sedimentation, an Date of actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	 If visible sedimentation is found outside site limits, the record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Date of actions taken, and 3. An explanation as to the actions taken to control fut releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbic from the construction activity, then a record of the following shall be made: 1. Evidence and actions taken to reduce sediment contributions, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING 1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This general permit as well as the certificate of coverage, after it is received.
- (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request [40 CFR 122.41]

SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 03/01/19

SECTION C: REPORTING 1. Occurrences that must be reported

Permittees shall report the following occurrences: (a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:

- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours, They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
- (a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref. 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (b) Anticipated bypasses and unanticipated bypasses.
- (c) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements After a permittee becomes aware of an occurrence that must be reported, he shall contact the

appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Reporting Timeframes (After Discovery) and Other Requirements

(a) Visible sediment deposition in a stream or wetland	 Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sedimen related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	 Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	 Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41[](7)]	 Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(1)(6). Division staff may waive the requirement for a written report on a
	(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above (c) Anticipated bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated bypasses [40 CFR 122.41(m)(3)] (e) Noncompliance with the conditions of this permit that may endanger health or the environment[40

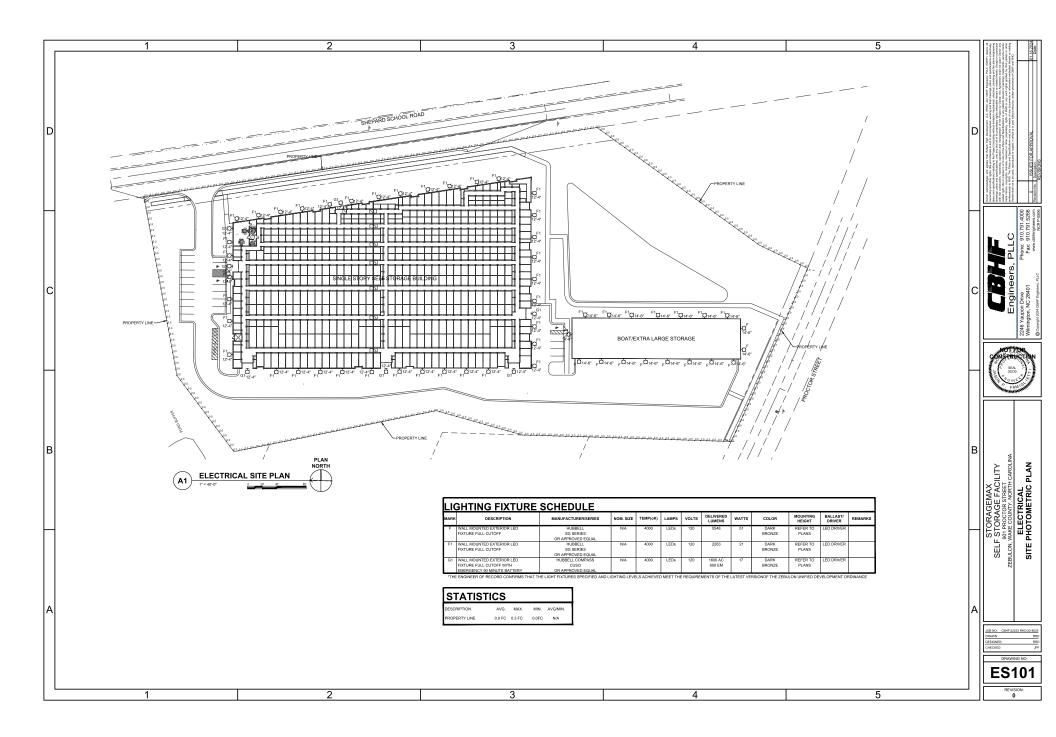
case-by-case basis.

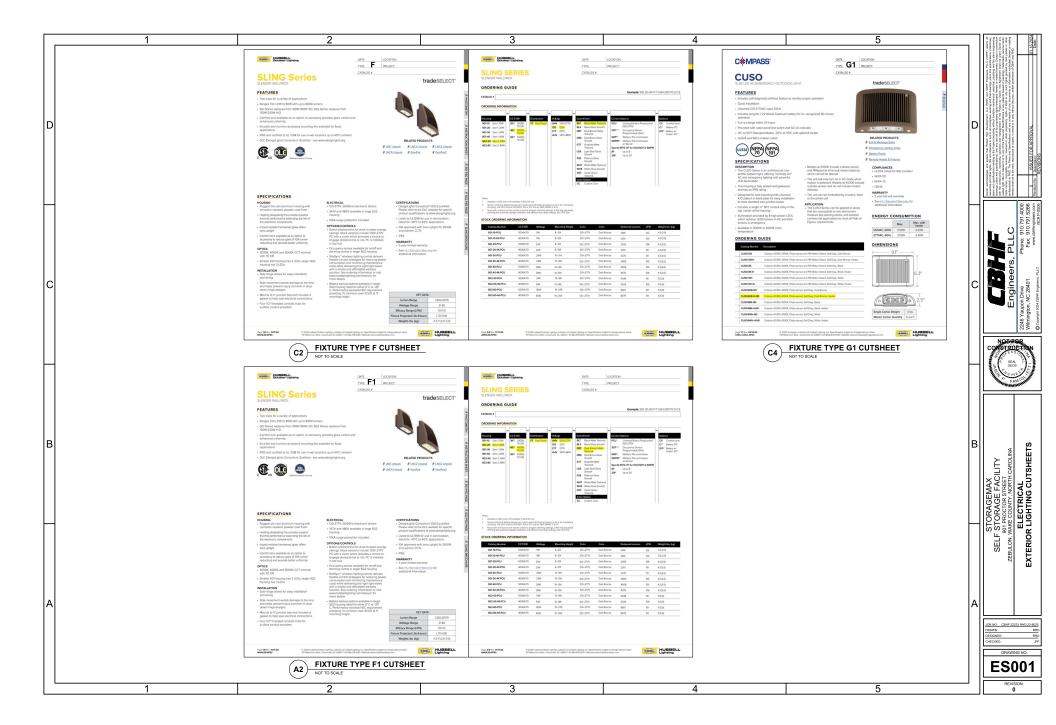


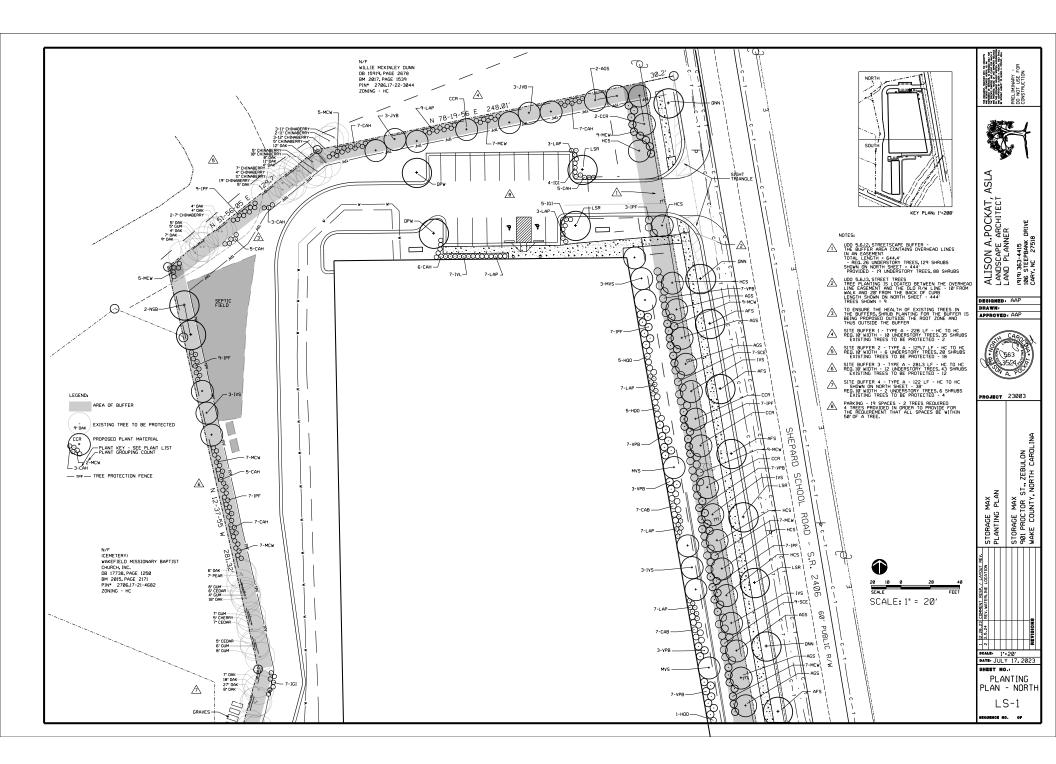
PL Engineering and Design, 3616 Waxwing Court, lke Forest, North Carolina 27587 3616 V orest, 3934 Gettle

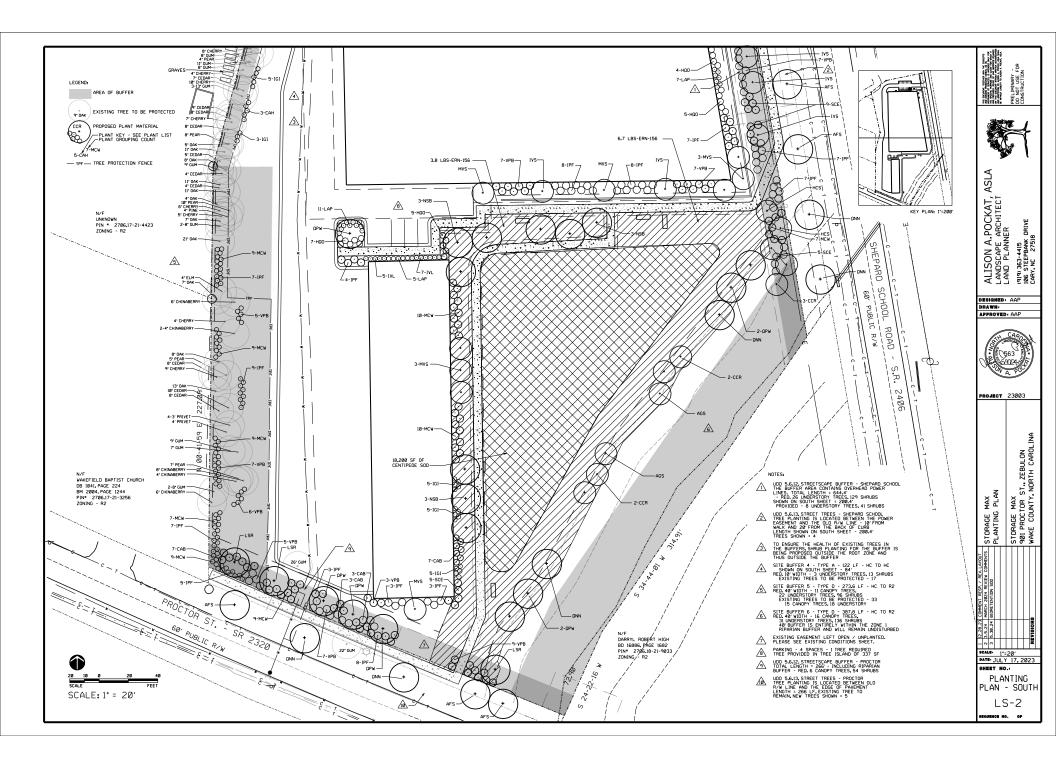
| KPG | KPG | R | KPG | R

REQUIREMENTS geMax (1098359) NCG01









				0/C	
KEY	COUNT	PLANT NAME	SIZE & SPR.	SPACING	FOLIAGE
AFS	9	ACER FLORIDANUM, SOUTHERN SUGAR MAPLE	2.5"B&B, 8"HT	20'	DEC
LSR	7	LIQUIDAMBAR STYRACIFLUA 'ROTUNDILOBA', FRUITLESS SWEETGUM	2.5"B&B, 8"HT	20'	DEC
NSB	11	NYSSA SYLVATICA, BLACK GUM	2.5"B&B, 8"HT	20'	DEC
ONN	9	QUERCUS NUTTALLI, NUTTAL OAK	2.5"B&B, 8"HT	20'	DEC
DPW	10	QUERCUS PHELLOS, WILLOW OAK	2.5"B&B, 8"HT	20'	DEC
4GS	10	AMELANCHIER GRANDIFLORA, SERVICEBERRY	1.5"CAL, 6"HT	15'	DEC
CCR	13	CERCIS CANADENSIS, REDBUD	1.5"CAL, 6"HT	15'	DEC
HCS	8	HALESIA CAROLINA, SILVERBELL	1.5"CAL, 6"HT	15'	DEC
١٧S	14	ILEX VOMITORIA 'SHADOW'S FEMALE', YAUPON HOLLY	6'HT, CONT.	15'	EVER
JBV	6	JUNIPERUS VIRGINIANA 'BURKII', BURKII CEDAR	6'HT, CONT.	15'	EVER
	14	MAGNOLIA VIRGINIANA 'AUSTRALIS', SWEET BAY	6'HT, CONT.	15'	EVER
MVS PLAN		SHRUB PLANTING			
PLAN	T LIST -			0/C	
PLAN		SHRUB PLANTING PLANT NAME	SIZE & SPR.	O/C SPACING•	FOLIAGE
PLAN KEY	T LIST -		SIZE & SPR.		FOLIAGE EVER
PLAN' KEY IPF	T LIST -	PLANT NAME		SPACING*	
PLAN KEY IPF MCW	T LIST - COUNT 135	PLANT NAME ILLICIUM PARVIFLORUM 'FOREST GREEN', ANISE	3GAL,24"HT	SPACING*	EVER
PLAN' KEY IPF MCW SCE	T LIST - COUNT 135 151	PLANT NAME ILLICIUM PARVIFLORUM 'FOREST GREEN', ANISE MYRICA CERIFERA, WAX MYRTLE	3GAL,24*HT 3GAL,24*HT	3/5′ 3/5′	EVER EVER
PLAN' KEY IPF MCW SCE VPB	T LIST - COUNT 135 151 35	PLANT NAME ILLICIUM PARVIFLORUM 'FOREST GREEN', ANISE MYRICA CERIFERA, WAX MYRTLE SAMBUCUS CANADENSIS, ELDERBERRY	3GAL,24°HT 3GAL,24°HT 3GAL,24°HT	3/5′ 3/5′ 3/5′ 5′	EVER EVER DEC
PLAN KEY IPF MCW BCE VPB CAB	T LIST - COUNT 135 151 35 97	PLANT NAME ILLICIUM PARVIFLORUM 'FOREST GREEN', ANISE MYRICA CERIFERA, WAX MYRTLE SAMBUCUS CANADENSIS, ELDERBERRY VIBURNUM PRUNIFOLIUM, BLACKHAW	3GAL,24'HT 3GAL,24'HT 3GAL,24'HT 3GAL,24'HT	3/5′ 3/5′ 3/5′ 5′ 3/5′	EVER EVER DEC EVER
PLAN' KEY IPF MCW SCE VPB CAB HDO	T LIST - COUNT 135 151 35 97 27	PLANT NAME ILLICIUM PARVIFLORUM 'FOREST GREEN', ANISE MYRICA CERIFERA, WAX MYRTLE SAMBUCUS CANADENSIS, ELDERBERRY VIBURNUM PRUNIFOLIUM, BLACKHAW CALLICARPA AMERICANA 'ATROPURPUREA', BEAUTYBERRY	3GAL,24'HT 3GAL,24'HT 3GAL,24'HT 3GAL,24'HT 3GAL,24'HT	3/5′ 3/5′ 5′ 5′ 3/5′ 4/5′	EVER EVER DEC EVER DEC
PLANT KEY IPF MCW SCE WPB CAB HDO CAH	T LIST - COUNT 135 151 35 97 27 32	PLANT NAME ILLICIUM PARVIFLORUM 'FOREST GREEN', ANISE MYRICA CERIFERA, WAX MYRTLE SAMBUCUS CANADENSIS, ELDERBERRY VIBURNUM PRUNIFOLIUM, BLACKHAW CALLICARPA AMERICANA 'ATROPURPUREA', BEAUTYBERRY HYDRANGEA DUERCIFOLIA 'ALICE', OAKLEAF HYDRANGEA	3GAL,24'HT 3GAL,24'HT 3GAL,24'HT 3GAL,24'HT 3GAL,24'HT 3GAL,18'HT	3/5' 3/5' 5' 3/5' 4/5' 4'	EVER EVER DEC EVER DEC DEC
	COUNT 135 151 35 97 27 32 48	PLANT NAME ILLICIUM PARVIFLORUM 'FOREST GREEN', ANISE MYRICA CERIFERA, WAX MYRTLE SAMBUCUS CANADENSIS, ELDERBERRY VIBURNUM PRUNIFOLIUM, BLACKHAW CALLICARPA AMERICANA 'ATROPURPUREA', BEAUTYBERRY HYDRANGEA QUERCIFOLIA 'ALICE', OAKLEAF HYDRANGEA CLETHRA ALNIFOLIA 'HUMMINGBIRD', CLETHRA	3GAL,24°HT 3GAL,24°HT 3GAL,24°HT 3GAL,24°HT 3GAL,24°HT 3GAL,18°HT	3/5′ 3/5′ 5′ 3/5′ 4/5′ 4′ 3′	EVER EVER DEC EVER DEC DEC DEC

NOTE: ALL PLANT MATERIAL SPECIFIED IS CONSIDERED TO BE A LOCAL NC NATIVE WITH THE FOLLOWING EXCEPTIONS:

LSR, AGS, IVS, MVS - ARE HYBRIDS OF NATIVE PLANT MATERIAL

ERN-156 10.5 ERNST CONSERVATION SEED MIX - ERNMX-156

CCR, JBV, HQO, CAH, IPF - ARE CULTIVARS OF NATIVE PLANT MATERIAL

18,200 SF EREMOCHLOA OPHIUROIDES, CENTIPEDE

. O/C SPACING LISTED X/Y REFERS TO BUFFER USE / STREETSCAPE USE

CONTRACTOR IS TO ENSURE THAT ALL PLANT COUNTS ARE CORRECT BEFORE INSTALLATION.

TRIM BRANCHES BY MAKING TO CUTS! CUT IS TO BE OUT FROM THE MAIN TRUMK AND ONLY/GOT THE BRANCH ONLY/GOT THE BRANCH DIAMETER DEET IS TO BE PARELLEL WITH THE TRUMK BUT JUST PAST THE BRANCH COLLAR, DO NOT DAMAGE SAID COLLAR IN ORDER TO ALLOW FOR THE WOMEN TO MEAL

TREE PRUNING

SOD

MAINTENANCE NOTES:

FERTILIZE TREES TWICE PER YEAR - EARLY SPRING WITH HIGH NITROGEN FERTILIZER (A RATIO OF 4-1-1 OR MULTIPLES THEREOF, AND EARLY FALL WITH HIGH POTASSIUM AND PHOPHORDUS FERTILIZER (A RATIO OF 1-4-4 OR MULTIPLES THEREOF), ENSURE THAT FERTILIZER (S WATEREO IN. REMOVE STRAKES SIX MONTHS AFTER TREES ARE FLANTED.

BY POUND

BY SF

25 LBS/ACRE

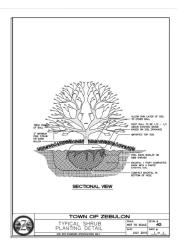
- 2. PRIMING / TRIMING OF SARIES SHOLD BE DONE IN EARLY
 SPRING JUST PRIMIT OF LEFT THO DUT! HEAD LINES WITH EXCESSIVE
 HEIGHT REPORT ELLIPS HOUTH LEAD LINES WITH EXCESSIVE
 HEIGHT REPORT LINE BACK TO THE COTTCH IN THE MAIN STEM.
 DO NOT HEIGHT ERROR ELLIPS LEAD WOOD OF BRANCHES. THAT SECSIVE
 BROOKER WEEDS WITH AN APPLICATION OF SECOND CONTENTS OF SECSIVE
 PROCAGE. THAT EXCESSIVE WEED DRASS PROBLEMS WITH ROUNDED.
- PACKAGE, TREAT EXCESSIVE WEED GRASS PROBLEMS WITH MOUNDUR.

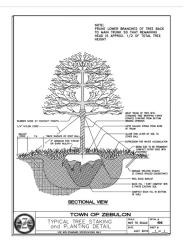
 A MINDR PEST INVESTATIONS CAN DO UNITREATED. EXCESSIVE MISSECT IN AN APPROPRIATE PRESTICIBLE. EXCESSIVE MISSECT IN A PHOPOPHATE PRESTICIBLE. EXCESSIVE FUNDAL INVESTATIONS NEED TO BE TREATED IN TWO TO THESE SUCCESSIVE TREATMENTS COMPOSED FOR A PRITOD OF TWO THESE SUCCESSIVE TREATMENTS COMPOSED FOR A PROPERTY OF THE WEEK'S WITH AN APPROPRIATE FUNCTION.

 PROVIDE A HALF INCH ANNUAL APPLICATION OF VARID NASTE COMPOSED FOR THE MISSEC MISSEC

- MOWING OF GRASS SHOULD BE DONE AS NEEDED, GENERALLY HYBRID BERMUDA GRASS SHOULD BE MOWN EVERY 5-7 DAYS AT A HEIGHT OF 1°.
- EVALUATE SOIL PH AND IRON LEVELS ANNUALLY. APPLY AMMENDMENTS AS NEEDED ACCORDING TO SOIL ANALYSIS.
- 9. PROTECT EXISTING PLANTINGS AVOID EXCESSIVE TRAFFIC INTO THE ZONE OF THE EXISTING PLANT MATERIAL.
- 10. MOW BIORETENTION SEEDED AREAS AND WILDFLOWER SEEDED AREAS ONCE A YEAR IN EARLY SPRING TO A HEIGHT OF 6 8". DO NOT MOW WITH A LAWN MOWER.

NOTE: FAILURE TO MAINTAIN ALL PLANTINGS IN ACCORDANCE WITH THIS PLAN MAY CONSTITUTE A VIOLATION OF THE LAND DEVELOPMENT ORDANCE AND MAY RESULT IN FINES.







SHRUB PRUNING NTS

PLANT NOTES

I. THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE DETERMINED AND VERIFIED IN THE FIELD BY THE LANDSCAPE CONTRACTOR. PLANTINGS SHALL BE ADJUSTED TO AVOID CONFLICT WITH SAID UTILITIES AND WITH SITE FEATURES LIKE WALLS AND PAVING.

2. SUBSOIL CONDITIONS AND SUBSURFACE DRAINAGE REQUIREMENTS OF ALL PLANT MATERIALS SHALL BE DETERMINED IN THE FIELD BY THE LANDSCAPE CONTRACTOR.

3. ALL PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO THE NEW GRADE THAT THEY BORE TO THE PREVIOUS GRADE.

4. THE LANDSCAPE CONTRACTOR SHALL STAKE THE LOCATION OF ALL TREES AND SHRUBS AND CHECK FOR CORRECT SPACING PRIOR TO PLANTING.

5. ALL PLANT MATERIALS ARE AS STATED, NO SUBSTITUTIONS WITHOUT THE CONSENT OF THE LANDSCAPE ARCHITECT.

6. ALL NYLON OR POLYESTER TREATED BURLAP AND SYNTHETIC ROPING SHALL BE REMOYED ENTIRELY PRIOR TO PLANTING. ALL WIRES, ROPES AND HOSES USED TO STAKE THE TREES SHALL BE REMOVED NO LATER THAN 18 MONTHS AFTER PLANTING.

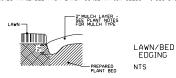
IS MONTHS AFTER PLANTING.
7. IN AREAS TO BE GRASSED, FINISH GRADE AND RAKE SOIL SURFACE, APPLY A 2'LAYER OF LEAF OF COMPARABLE COMPOST AND THILL TO APPLY A 2'LAYER OF LEAF OF COMPARABLE COMPOST AND THILL TO MINISTER APPLY A 2'LAYER OF LEAF OF THE APPLY A 1 RATE OF 2'LAYER OF THE MONDAY A 1 RATE OF 2'LAYER OF THE APPLY A 1 RATE OF THE APPLY A 1 RATE OF THE APPLY A 1 RATE OF THE APPLY AS REQUIRED BY THE U.S.D.A. FERTILIZER SHALL BE APPLIED TO ALL AREAS TO BE GRASSING AND A 1 RATE OF APPLIED TO ALL AREAS TO BE GRASSED AT A RATE OF ALL BEAUTIONS OF THE APPLIED TO ALL AREAS TO BE GRASSED AT A RATE OF ALL BEAUTIONS OF THE APPLIED TO ALL AREAS TO BE GRASSED AT A RATE OF ALL BEAUTIONS OF THE APPLIED TO ALL AREAS TO BE GRASSED AT A RATE OF ALL BEAUTIONS OF THE APPLIED AND A 1 RATE OF ALL BEAUTIONS OF THE APPLIED TO ALL AREAS THE APPLIED THE APPLIED TO ALL AREAS THE AP

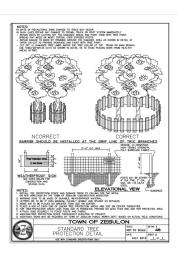
COVER ALL SEED WITH CLEAN GRAIN STRAW MULCH.

8. THE OPTIMEN PLANTING SEASON IS SOCIOBER 1 - MARCH 31 UNLESS AN ALTERNATIVE WATER SOURCE CAN BE PROVIDED, ALL PLANTS ARE TO MEET OR EXCEED THE AMERICAN ASSOCIATION OF MARSEMENTH STANDARDS FOR TO BE STATED AND THE AMERICAN SOCIATION OF MARSEMENT SERVICE AREA OF THE TOTAL STANDARDS AREA TO BE STATED AND THE ATTEMPT OF THE TOTAL STANDARDS AREA TO BE STATED AND THE ATTEMPT OF THE

9. ALL BARE AREAS OF SOIL NOT SPECIFIED FOR PLANT MATERIAL IN BEOS OR SEED MIXES ARE TO BE GRASSED. ALL SOIL SUPFACES ARE TO BE COVERED WITH PLANTS, MULCH, BUILDING OR PAVING. LEAVE NO SOIL BARE, ALL PLANTINGS SHALL BE BEODED AND MULCHED. 10. THE CONTRACTOR SHALL PROVIDE AN 18 MONTH GUARANTEE ON ALL PLANT MATERIAL AND WORK.

11. SEED MIXES AVAILABLE FROM ERNST CONSERVATION SEEDS - 1-800-873-3321.









ASLA

ALISON A.POCKAT, A LANDSCAPE ARCHITECT LAND PLANNER (919) 363-4415 106 STEEPBANK CARY, NC 27518

DESIGNED: AAP APPROVED: AAP



PROJECT 23003

DETAILS ST., ZEBULON , NORTH CAROLI AND MAX NOTES STORAGE MAX 901 PROCTOR S WAKE COUNTY, I STORAGE P

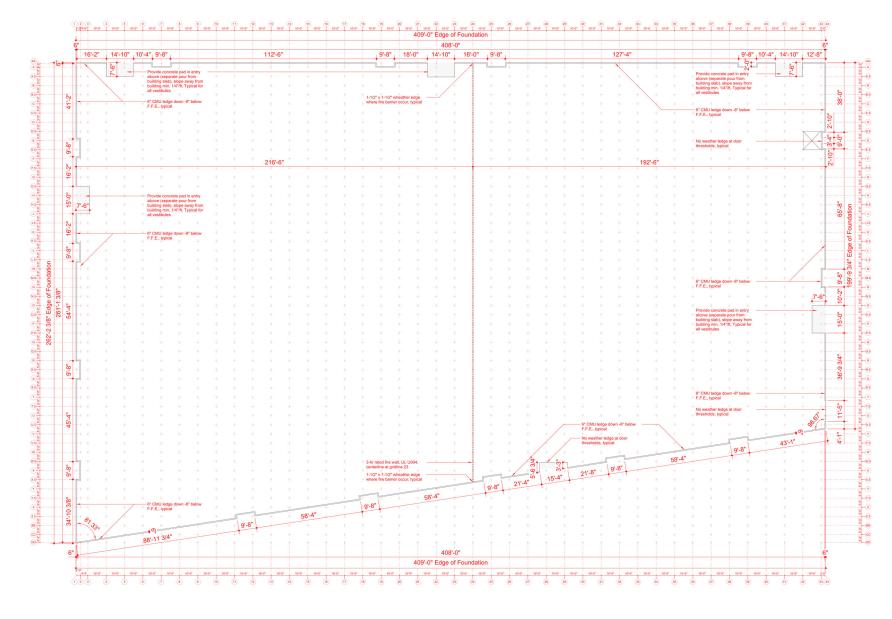
SCALE: 1"=20"

DATE: JULY 17, 2023 SHEET NO. PLANTING DETAILS

LS-3

INCE NO. OF

PROJECT



A1.19 A1.29 COTHRAN
HARRIS
ARCHITECTURE
5728 OCHUMNICO BOUNICES 408-0" (outside face of stud)

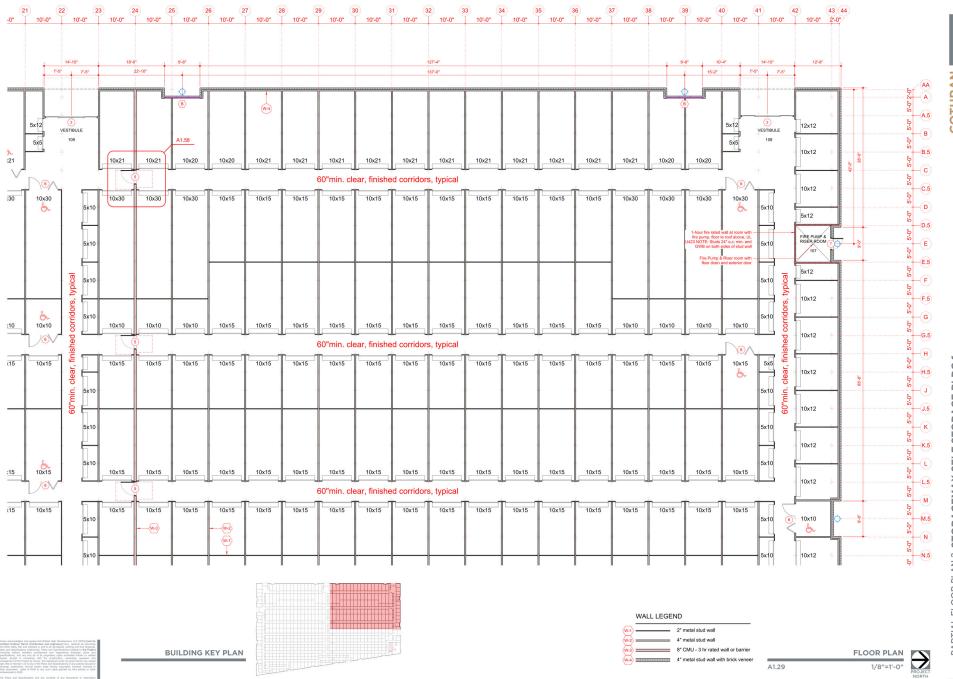
9'-8" 18'-0" 14'-10" 18'-0" 9'-8" 9'-8" 10'-4" 14'-10" 12'-8" + **6.**10x16 OVERALL FLOOR PLAN STORAGEMAX SELF STORAGE BLDG 1
PHASEI SELFSTORAGE
ROBERT HIGH DEVELOPMENT 8 W 8 -xs 25 25 BB A1.39 OVERALL FLOOR PLAN

1/16"=1'-0"

PROJECT
NORTH A1.09



PARTIAL FLOOR PLAN 1 STORAGEMAX SELF STORAGE BLDG 1
PHASEL SELF-STORAGE
ROBERT HIGH DEVELOPMENT



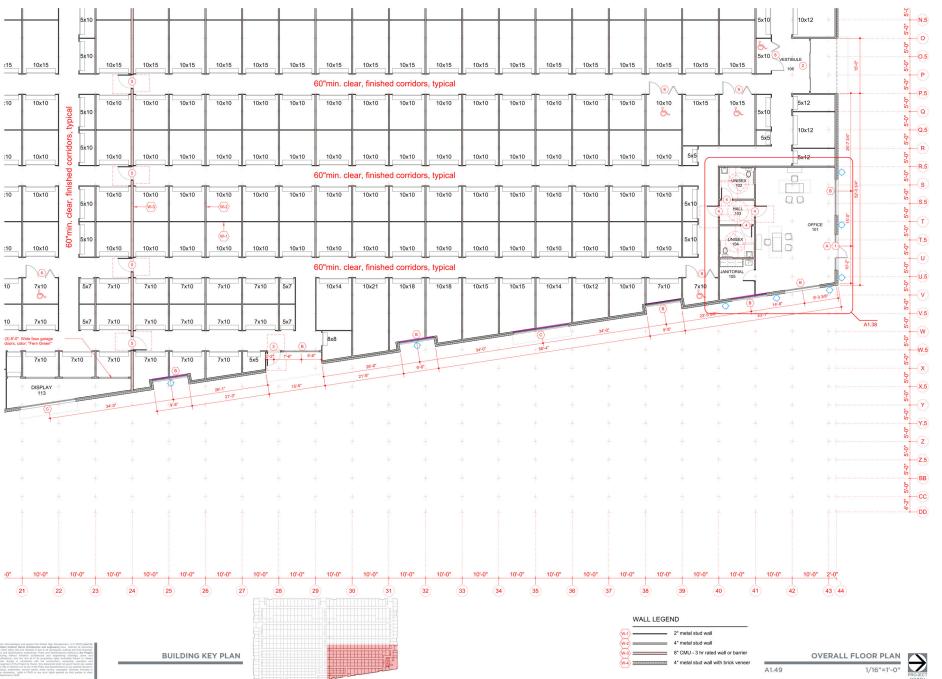
COTHRAN HARRIS ARCHIECTURE

PARTIAL FLOOR PLAN 2 STORAGEMAX SELF STORAGE BLDG 1
PHASE I SELF-STORAGE
ROBERT HIGH DEVELOPMENT



PARTIAL FLOOR PLAN 3 STORAGEMAX SELF STORAGE BLDG 1
PHASE ISELFSTORAGE
ROBERT HIGH DEVELOPMENT

901 PROCTOR STREET ZEBULON, NC





PARTIAL FLOOR PLAN 4 **STORAGEMAX SELF STORAGE BLDG 1**PHASEI SELF-STORAGE
ROBERT HIGH DEVELOPMENT

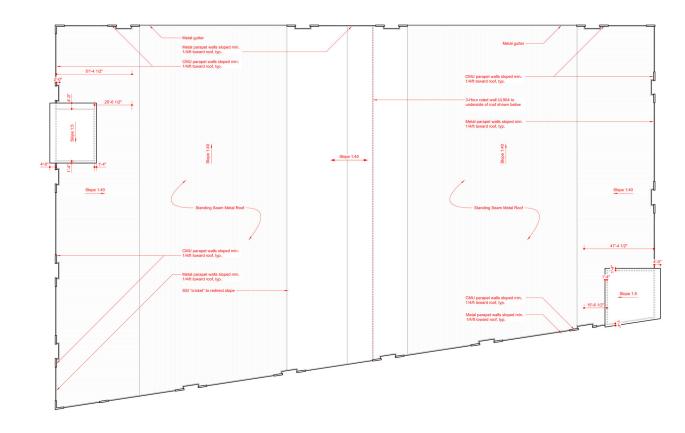
BACKGROUNDS JANUARY 18, 2024

UNIT MIX CALCULATIONS

A1.51

UNIT MIX CALCULATIONS

N/A



1"=20'-0" A1.56

ROOF PLAN & UNIT MIX STORAGEMAX SELF STORAGE BLDG 1
PHASEI SELF-STORAGE
ROBERT HIGH DEVELOPMENT

TYPICAL ELEVATION MATERIALS Brick veneer, Triangle Brick "Northampton WB"

Smooth metal panel comice MBC
Fay Block Split CMU veneer
"Thunder Grey" @ 2' building
recess typical.

Typical EIFS wall finish to match
MBCI "Light stone".

1

-- MBCI Shadow Rib, installed horizontally, Signatu 200 "Burnished Slate" -- Storefront glass. All glass to be clear. -- Smooth metal panel cornice MBCI "Polar White"

Metal awning @ windows and faux windows or secondary elevations. MBCI "Charcoal Gray".

Accent color EIFS panel @ faux windows

413'-8 3/4'

EAST ELEVATION

(SHEPARD SCHOOL ROAD)

A2.08

Material Legend

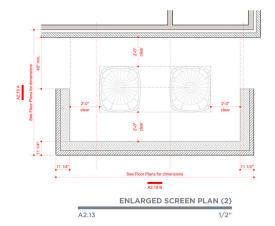
EIFS #1 - Color to match MBCI "Light Stone"

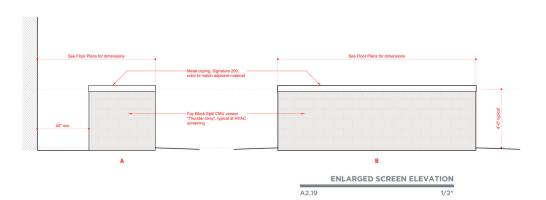
EIFS #2 - Color to match MBCI "Ash Gray"

⊕ 0'-0" T.O. Slate

\$33'-8" T.O. Tower Med. parapet 3

901 PROCTOR STREET ZEBULON, NC





never allowables are species that float tay frequency (LT (1975) part to detail colored colored state and extractions and experience (LT (1985) part to deter colored state of their co