# Comming of Emercial Cove Ct.

# FRIENDS SCHOOL OF WILMINGTON

CONSTRUCTION DRAWINGS for

LOCATED IN THE CITY OF WILMINGTON NEW HANOVER COUNTY, NORTH CAROLINA

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

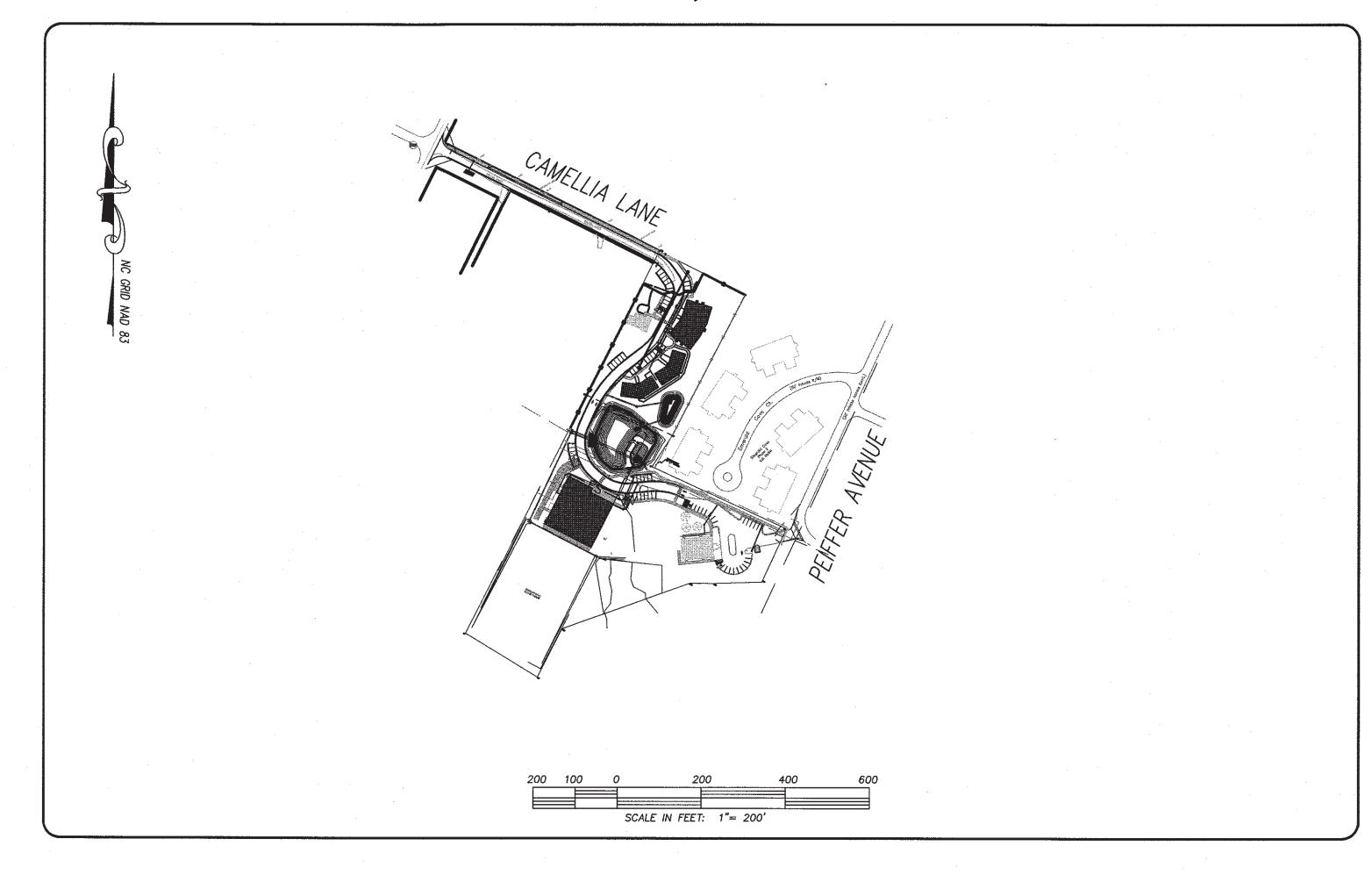
Approved	Construction Pla	an
Name	Date	
Planning	P. Province Anna II	
Traffic		
Fire		

	W	CITY OF LLM	GT NORTH CA	ON AROLINA	
	Public	Services • En	gineerir	ng Divis	ion.
APP	ROVED	STORMWATER	MANAC	EMENT	PLAN
Dat	e:		Permit	#	
Sign	ned: _				

## **GENERAL NOTES:**

- 1. NEW HANOVER COUNTY PARCEL NUMBERS.:
- PID = R06200-003-064-000 2. TOTAL PROJECT AREA: 339,591 SF (7.80 AC.)
- 4. LAND CLASSIFICATION: RESOURCE PROTECTION
- 5. THIS SITE IS LOCATED WITHIN ZONE "X" ACCORDING TO FEMA FIRM COMMUNITY PANEL NUMBER 3720314600J, EFFECTIVE DAY 4/18/05
- 6. SITE ADDRESS 350 PEIFFER AVE.7. EXISTING IMPERVIOUS ONSITE = 44,6
- 7. EXISTING IMPERVIOUS ONSITE = 44,649 SF 8. BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED AND PROVIDED TO CSD ENGINEERING BY GARY W. KEYES LAND SURVEYING, P.C. C-4086
- VERTICAL DATUM = 88

  9. STORMWATER DRAINS TO UT TO HEWLETTS CREEK, SA; HQW
- 18-87-26
  10. LAND OWNER FRIENDS SCHOOL OF WILMINGTON INC
  350 PEIFFER AVENUE
  WILMINGTON, NC 28409



·	<u>LEGE</u>	<u>IND</u>	
	- EXISTING BOUNDARY - PROPOSED LOTLINE	W	EXISTING WATERLINE  PROPOSED WATERLINE
21	CENTERLINE OF RIGHT OF WAY  CONTOUR LINE & ELEVATION	<b>"</b>	
	DRAINAGE FLOW		EXISTING / PROPOSED STORM SEWER & CATCH BASIN
	DRAINAGE EASEMENT	E.I.P.	EXIST. IRON PIPE WATER METER SERVICE CONNECTION
	PROPOSED DRAINAGE PIPE	E.C.M.	EXIST. CONCRETE MONUMENT  GATE VALVE
ss	PROPOSED SANITARY SEWER & MANHOLE	<b>A</b>	REDUCER
<del>\</del> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	EXISTING SANITARY SEWER & MANHOLE		HANDICAP RAMP

OWNER: FRIENDS SCHOOL OF WILMINGTON INC. 350 PEIFFER AVENUE WILMINGTON, NC 28409 PH. 910-792-1811

	SEWE	:R
SIZE	8"	
TYPE	C-900	
LF	256	

И	VATER (PRIVATE)			WATER (P	UBLIC)	
SIZE	4"	2"	SIZE	6"		2"
TYPE	C-900	SDR-21	TYPE	C-900		SDR-2
LF	268	315	LF	13		51

/		
	INDEX TO DRAWINGS	
SHEET No.	DESCRIPTION	DRAWING No.
1 OF 14	COVER SHEET	cov
2 OF 14	EXISTING BOUNDARY AND TOPOGRAPHY	EX-COND
3 OF 14	TREE INVENTORY	TREE
4 OF 14	SITE PLAN	SP1
5 OF 14	CAMELIA DRIVE	PP1
6 OF 14	GRADING PLAN	GP
7 OF 14	GRADING PLAN	GP
8 OF 14	SITE PLAN DETAILS	SP1_DET1
9 OF 14	SITE PLAN DETAILS	SP1_DET2
10 OF 14	CFPUA INSTALLATION DETAILS	CFPUA_WAT_SEW
11 OF 14	CFPUA INSTALLATION DETAILS	CFPUA_WAT_SEW
12 OF 14	CFPUA WATER DETAILS	CFPUA_WATER
13 OF 14	CFPUA SEWER DETAILS	CFPUA_SEWER_1
14 OF 14	CFPUA SEWER DETAILS	CFPUA_SEWER_2
LP1 OF LP1	LANDSCAPE PLAN	LP
EC1 OF EC4	STORMWATER & EROSION CONTROL PLAN	EC1
EC2 OF EC4 POND DETAILS		EC2
EC3 OF EC4	STABILIZATION PLAN	EC3
EC4 OF EC4	EC4	
PLP1 OF PLP1	POND LANDSCAPING PLAN	POND_LP

#### NOTES:

- 1. BOUNDARY AND TOPOGRAPHY SURVEY PERFORMED BY GARY W. KEYES LAND SURVEYING, P.C.
- 2. THIS MAP IS NOT FOR CONVEYANCE, RECORDATION, OR SALES.
- 3. THIS PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA ACCORDING TO FEMA MAPS.
- 4. THIS PROPERTY IS ZONED R-15
- 5. CFPUA WATER
- 6. CFPUA SEWER
- 7. ALL CONSTRUCTION TO CONFORM TO CITY OF WILMINGTON STANDARDS AND APPLICABLE STATE & LOCAL CODES.
- 8. CONTRACTOR TO COORDINATE ANY REQUIRED TRAFFIC CONTROL WITH CITY OF WILMINGTON AND OR NCDOT.
- 9. CARE SHALL BE TAKEN DURING FINAL GRADING TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND TO RECEIVING STRUCTURES. ROOF DRAIN DOWNSPOUTS TO BE CONNECTED TO STORM DRAINAGE
- 10. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ANY RELOCATIONS, RE-ALIGNMENTS, DISCONNECTIONS OR CONNECTIONS OF EXISTING UTILITIES WITH APPLICABLE AUTHORITIES.

STUBOUTS OR DIRECTED TO STREET/PARKING AREAS.

- 11. CLEARING AND GRUBBING OF SITE TO INCLUDE REMOVAL OF EXISTING CURB, ASPHALT, INLETS, AND ANY OTHER STRUCTURES INCLUDING TREES, STUMPS AND DEBRIS EXISTING ON SITE. TREES NOT REQUIRED TO BE CLEARED FOR CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE DIRECTED.
- 12. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES AT ALL CROSSINGS PRIOR TO COMMENCING TRENCH EXCAVATION. IF ACTUAL CLEARANCES ARE LESS THAN INDICATED ON PLAN, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ANY CONDITION DISCOVERED OR EXISTING THAT WOULD NECESSITATE A MODIFICATION OF THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- 13. NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING
  UTILITIES HAS BEEN DETERMINED. CALL "NC ONE—CALL" AT LEAST
  48 HOURS BEFORE COMMENCING CONSTRUCTION.
- 14. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE & CURB BOXES TO FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION. ANY BOXES DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST AND EROSION DURING CONSTRUCTION AT HIS EXPENSE. PARKING AREAS SHALL BE WATERED TO CONTROL DUST WHEN ORDERED BY THE ENGINEER.
- 16. NO GEOTECHNICAL TESTING HAS BEEN PERFORMED ON SITE. NO WARRANTY IS MADE FOR SUITABILITY OF SUBGRADE, AND UNDERCUT AND ANY REQUIRED REPLACEMENT WITH SUITABLE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 17. CONTRACTOR TO ENSURE THAT PAVEMENT IS PLACED SO AS TO DRAIN POSITIVELY TO THE STREET INLETS AND CATCH BASINS. ALL FUTURE ROOF DRAIN DOWNSPOUTS TO BE DIRECTED TO THE STORM DRAINAGE STUBOUTS.
- 18. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.19. THIS PLAN IS FOR SITE GRADING, UTILITIES, SITING, AND DRAINAGE ONLY. SEE BUILDING PLANS FOR DETAILED HOOKUPS TO BUILDINGS, ETC.
- 20. CONTRACTOR AND BUILDER ARE RESPONSIBLE FOR COORDINATING
  FINISHED FLOOR ELEVATION OF ALL BUILDINGS WITH THE OWNER. ELEVATIONS
  GIVEN ARE MINIMUM GROUND ELEVATIONS AT THE BUILDING SITE AND DO NOT
  PURPORT TO BE FINISHED FLOOR. MINIMUM RECOMMENDED FF ELEVATIONS
  SHOWN ON PLANS.
- 21. AFFECTED NON-MUNICIPAL UTILITIES SHALL BE CONTACTED AND PROVIDED WITH PLANS AND OTHER PERTINENT INFORMATION, WHEN FEASIBLE, TO COORDINATE APPROPRIATE SCHEDULING AND PLACEMENT.
- 22. EXTREME CARE SHALL BE TAKEN TO ENSURE MINIMUM SEPARATIONS

AT ALL UTILITY CROSSINGS.

- 23. MINIMUM SEPARATION SHALL BE MAINTAINED AS FOLLOWS:

  a. HORIZONTAL SEPARATION OF 10 FEET BETWEEN SANITARY SEWER AND
  - WATER MAINS AND STORM SEWER.

    b. WHERE VERTICAL CLEARANCE IS LESS THAN 24" BETWEEN SANITARY SEWER AND WATER OR WHERE SEWER LINE CROSSES ABOVE WATER MAIN, BOTH PIPES SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING.
  - c. WHERE VERTICAL CLEARANCE IS LESS THAN 24" BETWEEN SANITARY SEWER AND STORM DRAIN, SANITARY SEWER SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10 FEET EITHER SIDE OF CROSSING.
  - d. WHERE VERTICAL CLEARANCE IS LESS THAN 12" BETWEEN SANITARY
    SEWER AND STORM DRAIN, SANITARY SEWER SHALL BE DUCTILE IRON
    PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING, AND BRIDGING
    SHALL BE INSTALLED PER APPLICABLE UTILITY AUTHORITY'S DETAILS.
- e. IN NO CASE SHALL THERE BE LESS THAN 18" OF SEPARATION BETWEEN OUTSIDE OF WATER MAIN AND OUTSIDE OF SEWER OR STORM DRAINAGE.

  f. MINIMUM COVER OF 36" SHALL BE PROVIDED FOR ALL BURIED WATER MAINS AND SANITARY SEWER MAINS.
- 24. SEE DETAIL SHEETS FOR TYPICAL UTILITIES HOOKUPS.
- 25. ALL SANITARY SEWER MAINS TO BE 8" UNLESS OTHERWISE INDICATED.
- 26. ALL WATER MAINS TO BE 8" UNLESS OTHERWISE INDICATED.
- 27. TWO VALVES ARE REQUIRED AT "T" INTERSECTIONS AND ONE VALVE ON THE WATER LINE TO FIRE HYDRANTS.
- 28. A BLOW-OFF VALVE IS REQUIRED AT THE TERMINUS OF ALL "DEAD END" WATER LINES.

(S) CSD ENGINEERING

LICENSE # C-2710
ENGINEERING
LAND PLANNING
COMMERCIAL / RESIDENTIAL

P.O. BOX 4041 WILMINGTON, NC 28406 (910) 791–4441

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ENDS SCHOOL OF WILMINGTON

ATED IN WILMINGTON TOWNSHIP

HANOVER COUNTY, NORTH CAROLINA

HANOVER COUNTY, NORTH CAROLINA

MER: FRIENDS SCHOOL OF WILMINGTON INC

350 PEIFFER AVENUE

WILMINGTON NC 28409



					دا	-	'	
					8WM	MRB	MRB	ВУ
					REVISED PER CFPUA & COW ENGINEERING COMMENTS	REVISED WATER MAIN TABLE & SHEET NUMBERS	REVISED SHEET NUMBERS	REMARKS
					ы	2	-	REV. NO.
D	A 7	E:	$\epsilon$	5-4	1—	18		

DATE: 6-4-18

HORZ. SCALE: 1" = 200'
VERT. SCALE: N/A

DRAWN BY: RLW
CHECKED BY: HSR

PROJECT NO.: 05-0040

Р	oint Table
Point #	Raw Description
1	CREPE MYRTLE
5	12" CEDAR
8	6" MAG
11	18" PINE
12	22" PINE
13	8" OAK
14	7" MAG
15	23" PINE
16	10" HOLLY
19	SMALL PALM
20	8" MAG
21	16" OAK
22	10" OAK
23	14" OAK
24	8" OAK
25	19" PINE
27	20" PINE
28	14" PINE
29	16" PINE
30	8" DOGWOOD

	Point Table		Point Table
Point #	Raw Description	Point #	Raw Descri
31	24" LOBLOLLY	51	14" PIN
32	10" OAK	52	14" PIN
33	20" PINE	53	14" PIN
34	18" PINE	54	10" CED.
35	6" CHINESE PISTACHE	55	8" CEDA
36	11" CHINESE PISTACHE	56	9" CEDA
37	21" PINE	57	13" GU
38	19" PINE	58	11" GUI
39	18" PINE	59	13" PIN
40	14" PINE	60	24" LOBLO
41	8" GUM	61	15" PIN
42	12" CAMPHOR	62	10" HARDV
43	CREPE MYRTLE	63	11" HARDV
44	10" MAG	64	DAMAGED CI
45	20" HARDWOOD	65	DAMAGED C
46	5" DOGWOOD	66	14" OA.
47	11" MAG	67	8" CHER
48	12" OAK	68	DAMAGED C
49	18" PINE	69	DAMAGED CI
50	15" PINE	70	11" GUI

Raw Description

14" PINE

14" PINE

14" PINE

10" CEDAR

8" CEDAR

9" CEDAR

13" GUM

11" GUM

13" PINE

24" LOBLOLLY

15" PINE

10" HARDWOOD

11" HARDWOOD

DAMAGED CHERRY

DAMAGED CHERRY

14" OAK

8" CHERRY

DAMAGED CHERRY

DAMAGED CHERRY

11" GUM

	Point Table	Р	oint Table
Point #	Raw Description	Point #	Raw Description
71	8" MAG	91	12" PINE
72	7" MAG	92	12" PINE
73	19" PINE	93	12" PINE
74	15" PINE	94	8" OAK
75	DAMAGED CHERRY	95	18" PINE
76	DAMAGED CHERRY	96	12" PIN"
77	DAMAGED CHERRY	97	12" PINE
78	13" HARDWOOD	98	12" PINE
79	8" CEDAR	99	16" PINE
80	18" GUM	100	8" GUM
81	5" MAG	101	9" GUM
82	19" PINE	102	17" OAK
83	14" PINE	103	13" PINE
84	17" PINE	104	13" PINE
85	10" HARDWOOD	105	13" PINE
86	12" PINE	106	13" PINE
87	18" PINE	107	13" PINE
88	18" PINE	108	13" PINE
89	11" GUM	109	16" PINE
90	12" PINE	110	12" PINE

	Point Table
Point #	Raw Description
111	19" PINE
112	17" PINE
113	18" MAG
114	14" PINE
115	5" MAG
116	14" PINE
117	14" MAGNOLIA
118	10" CEDAR
119	16" PINE
120	16" PINE
121	16" MAG
122	19" HARDWOOD
123	20" OAK
124	8" OAK
125	DAMAGED CHERRY
126	12" CEDAR
127	11" CEDAR
128	13" CEDAR
129	9" HARDWOOD
130	14" HARDWOOD

P	oint Table
Point #	Raw Description
244	28" LOBLOLLY
245	17" PINE
246	18" PINE
247	6" GUM



EXISTING BOUNDARY

EXISTING CONCRETE

— W — EXISTING WATER

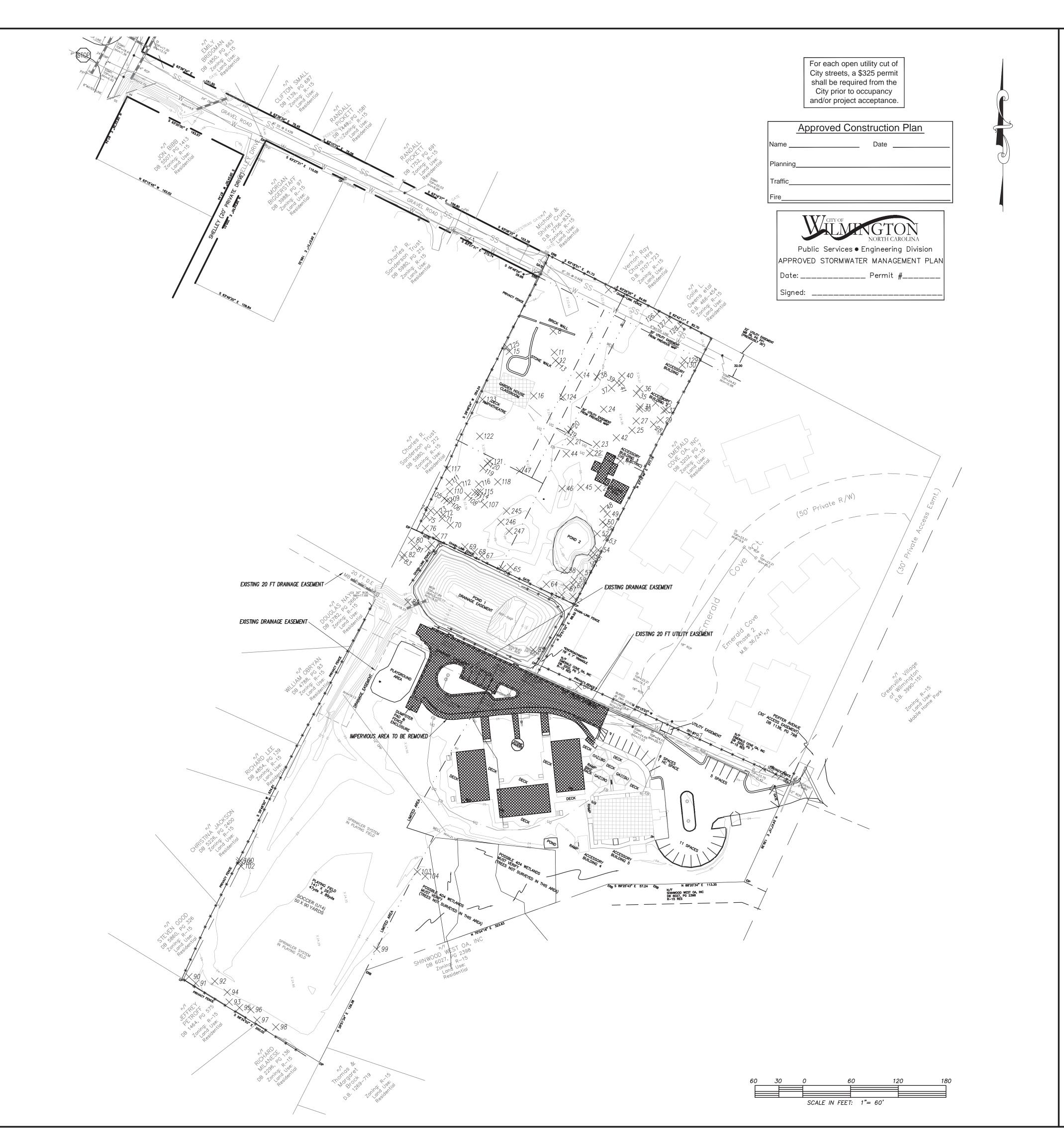
——SS—— EXISTING SEWER

----- EXISTING CONTOUR

A EXISTING FIRE HYDRANT

EXISTING STORM DRAIN

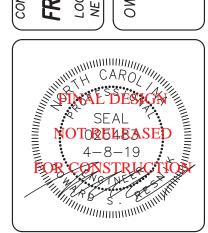
EXISTING TREE IMPERVIOUS TO BE REMOVED





LICENSE # C-2710 ENGINEERING LAND PLANNING COMMERCIAL / RESIDENTIAL

P.O. BOX 4041 WILMINGTON, NC 28406 (910) 791–4441



		4/8/19	3/20/19	1/7/19	11/12/18	7/18/18	DATE	
		RLW	RLW	MRB	NSN	MRB	ВУ	
		REVISED PER COW ENGINEERING COMMENTS	REVISED PER TRC & COW ENGINEERING COMMENTS	REVISED SHEET NUMBERS	REVISED TREES / REMOVED TREES DESTROYED DURING THE HURRICANE SEASON.	REVISED SHEET NUMBERS	REMARKS	
		5	4	3	2	1	REV. NO.	
) A 7	E:	6	5—	4—	18			Ì

HORZ. SCALE: 1" = 60' VERT. SCALE: N/A DRAWN BY: RLW CHECKED BY: HSR

PROJECT NO.: 05-0040

# TREES SCHEDULED FOR REMOVAL

		Point Table
	· Point #	Raw Description
	11	18" PINE
	12	22" PINE
	13	8" OAK
	- 14	7" MAG
	22	10" OAK
	24	8" OAK
ST)	30	8" DOGWOOD
	31	24" LOBLOLLY
	35	6" CHINESE PISTACHE
	36	11" CHINESE PISTACHE
	37	21" PINE
	38	19" PINE
	39	18" PINE
	40	14" PINE
	41	8" GUM
	45	20" HARDWOOD
	46	5" DOGWOOD
	55	8" CEDAR
	56	9" CEDAR
	57	13" GUM
	58	11" GUM

		Point Table		Р	oint Table
	Point #	Raw Description		Point #	Raw Description
	59	13" PINE		92	12" PINE
	60	24" LOBLOLLY		94	8" OAK
	61	15" PINE		105	13" PINE
	63	11" HARDWOOD		106	13" PINE
	64	DAMAGED CHERRY	agram series and a	107	13" PINE
	65	DAMAGED CHERRY	400000000000000000000000000000000000000	108	13" PINE
	66	14" OAK		109	16" PINE
ST)	67	8" CHERRY		110	12" PINE
	68	DAMAGED CHERRY		112	17" PINE
	69	DAMAGED CHERRY	(ST)	113	18" MAG
	70	11" GUM		114	14" PINE
ST)	. 71	8" MAG		115	5" MAG
	72	7" MAG		116	14" PINE
	73	19" PINE		118	10" CEDAR
	76	DAMAGED CHERRY		119	16" PINE
	77	DAMAGED CHERRY		120	16" PINE
	78	13" HARDWOOD	(ST)	121	16" MAG
	79	8" CEDAR	(- )	246	18" PINE
	81	5" MAG		247	6" GUM
	84	17" PINE		· /	O OOM

TO BE REMOVED

(ST) SIGNIFICANT TREES = HARDWOOD, LONG LEAF PINE, POCOSIN PINE, BLACK PINE, AND NON-PINE CONIFER AT LEAST 24 INCHES DBH, ALL OTHER PINES AT LEAST 32 INCHES DBH AND DOGWOOD, MAGNOLIAS, AMERICAN HOLLIES AND OTHER ORNAMENTAL FLOWERING TREES AT LEAST 8 INCHES DBH.

#### SIGNIFICANT TREES SCHEDULED TO BE REMOVED

DESCRIPTION	MITIGATION %	
8" DOGWOOD	100	$(8 \times 2 \times 1.0) / 3 = 5.3$
8" CHERRY	<i>75</i>	$(8 \times 2 \times .75) / 3 = 4.0$
8" MAGNOLIA	100	$(8 \times 2 \times 1.0) / 3 = 5.3$
18" MAGNOLIA	100	$(18 \times 2 \times 1.0) / 3 = 12.0$
16" MAGNOLIA	100	$(16 \times 2 \times 1.0) / 3 = 10.7$

85 10" HARDWOOD

TOTAL = 37.3 TREES

# TREES SCHEDULED TO BE RETAINED

Point # Raw Description

12" PINE

18" PINE

Р	oint Table
Point #	Raw Description
<u> </u>	***************************************
4.	<del>*************************************</del>
1	CREPE MYRTLE
8	6" MAG
15	23" PINE
16	10" HOLLY
19	SMALL PALM
20	8" MAG
21	16" OAK
23	14" OAK
25	19" PINE
27	20" PINE
28	14" PINE
29	16" PINE
32	10" OAK
33	20" PINE
34	18" PINE
42	12" CAMPHOR
43	CREPE MYRTLE

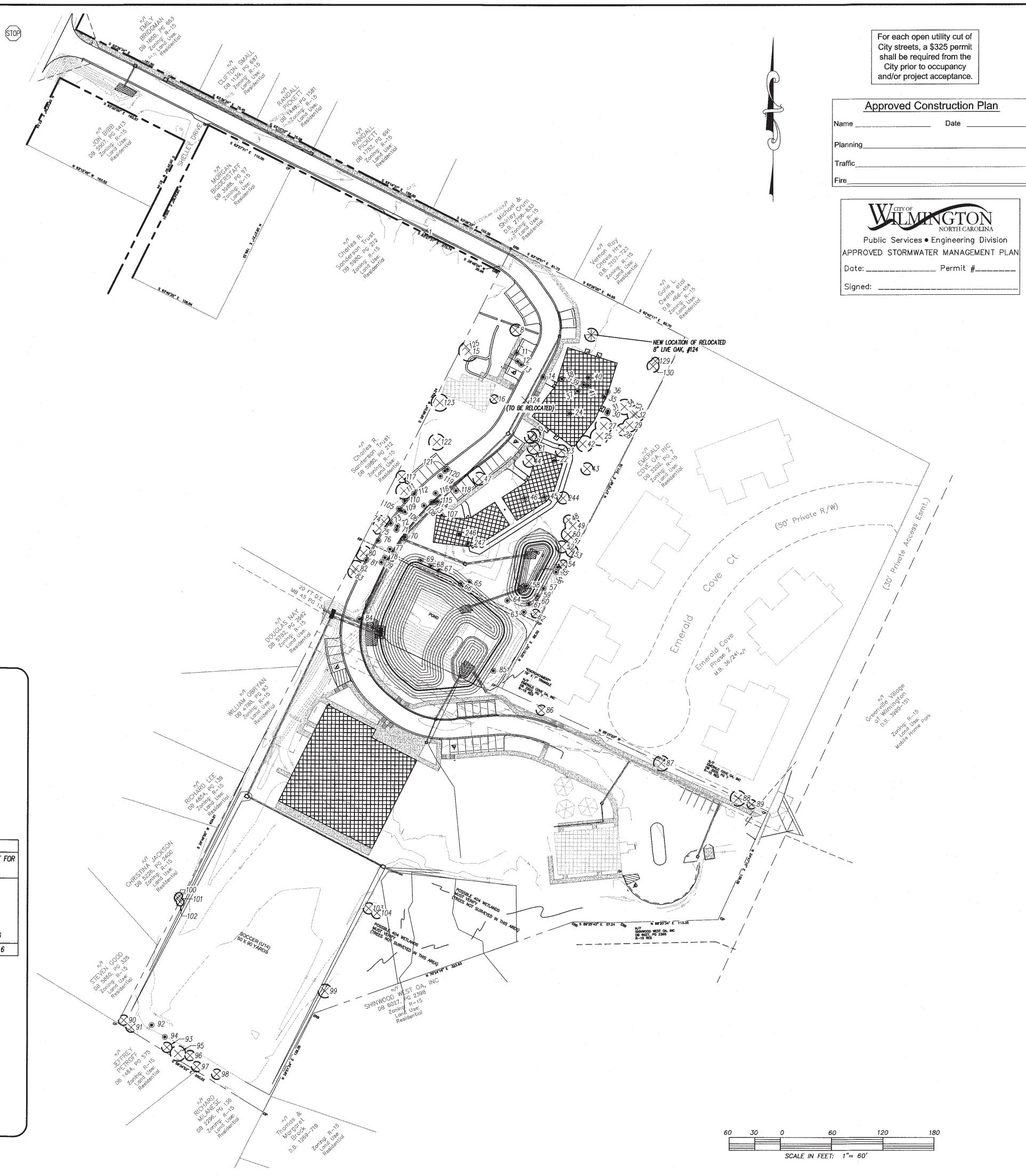
int Table		Point Table
Raw Description	Point #	Raw Description
	44	10" MAG
	47	11" MAG
	48	12" OAK
	49	18" PINÉ
CREPE MYRTLE	50	15" PINE
6" MAG	51	14" PINE
23" PINE	52	14" PINE
10" HOLLY	53	14" PINE
SMALL PALM	54	10" CEDAR
8" MAG	62	10" HARDWOOD
16" OAK	74	15" PINE
14" OAK	75	DAMAGED CHERRY
19" PINE	80	18" GUM
20" PINE	82	19" PINE
14" PINE	83	14" PINE
16" PINE	86	12" PINE
10" OAK	87	18" PINE
20" PINE	88	18" PINE
18" PINE	89	11" GUM
12" CAMPHOR	90	12" PINE
CREPE MYRTLE	91	12" PINE

96	12" PIN"	] .
97	12" PINE	
98	12" PINE	
99	16" PINE	
100	8" GUM	CREDIT FOR PRESE
100	O GUW	PRESERVED TREES
101	9" GUM	(INCHES CALIPER O
102	17" OAK	2-5
103	13" PINE	6–11
104	13" PINE	12–17
111	19" PINE	_   18-23  >24
117	14" MAGNOLIA	
122	19" HARDWOOD	
123	20" OAK	4
124	8" OAK	* TO BE RELOCATED

122	19" HARDWOOD	
123	20" OAK	
124	8" OAK	-
125	DAMAGED CHERRY	
129	9" HARDWOOD	
130	14" HARDWOOD	
244	28" LOBLOLLY	

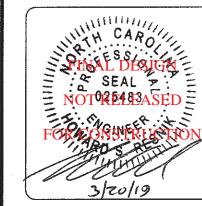
PRESERVED TREES	CREDIT	NUMBER OF TREES	CREDIT FOR TREES
(INCHES CALIPER OR DBH)		MELO	INLLO
2–5	1	-	-
6-11	2	12	24
12–17	3	25	<i>7</i> 5
18–23	4	12	48
>24	DBH/6	1	4.6
		TOTAL	151.6

X TO BE RETAINED



LICENSE # C-2710 ENGINEERING LAND PLANNING COMMERCIAL / RESIDENTIAL

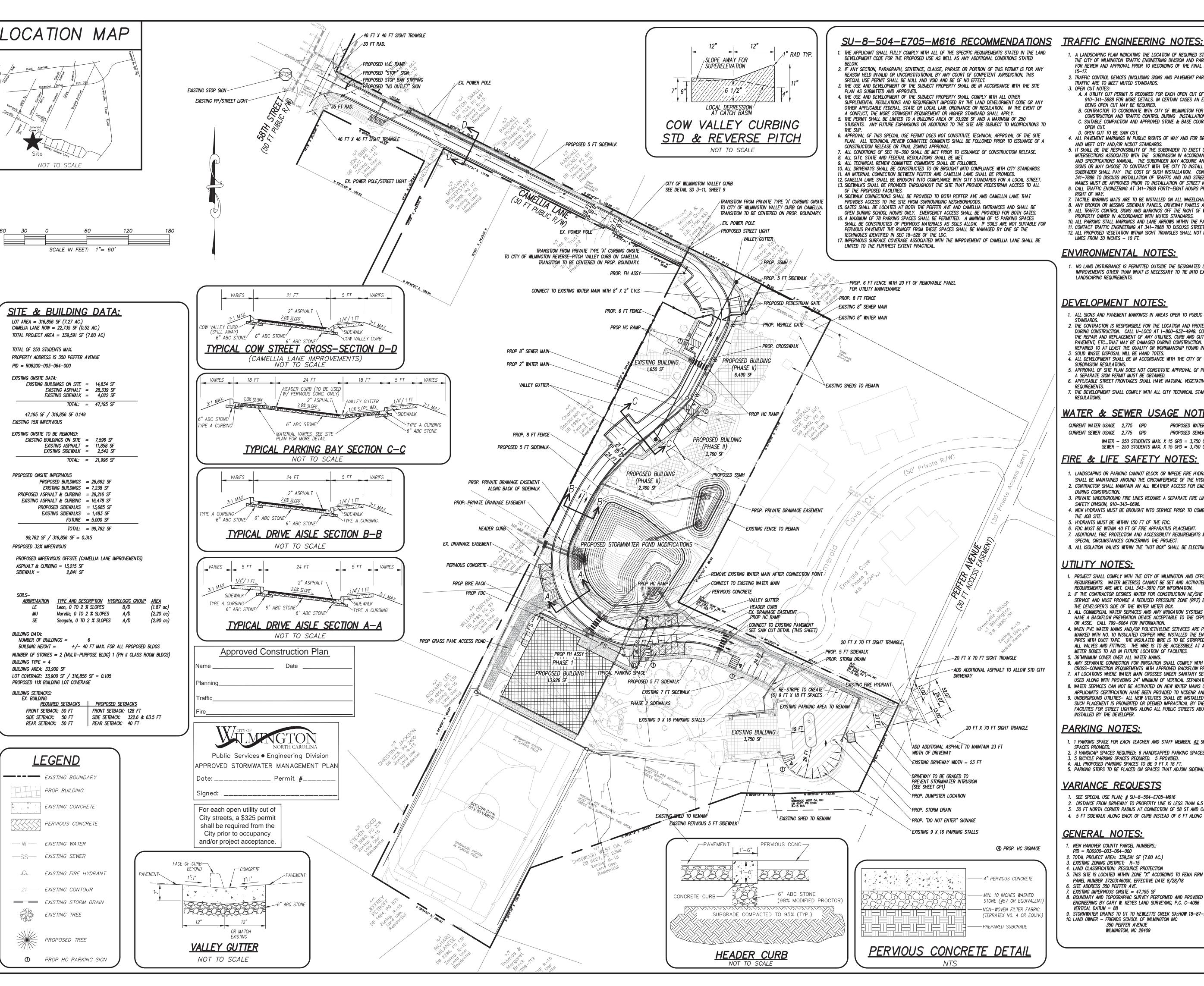
P.O. BOX 4041 WILMINGTON, NC 28406 (910) 791-4441



	ВҮ	REMARKS
7	MRB	REVISED SHEET NUMBERS
-	MSS	REVISED TREES TO STAY / BE REMOVED
_	<b>BWN</b>	REVISED SHEET NUMBERS, SHOW RELOCATION OF TREE \$124
'	MRB	REVISED TREES TO STAY / BE REMOVED

DATE: 6-4-18 HORZ. SCALE: 1" = 60' VERT. SCALE: N/A DRAWN BY: RLW

CHECKED BY: HSR PROJECT NO.: 05-0040



- 1. A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO RECORDING OF THE FINAL PLAT. PLAN SHALL ADHERE TO SD
- 2. TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT PARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD STANDARDS.
- 3. OPEN CUT NOTES: A. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT
- 910-341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED. B. CONTRACTOR TO COORDINATE WITH CITY OF WILMINGTON FOR ACCEPTABLE HOURS OF
- CONSTRUCTION AND TRAFFIC CONTROL DURING INSTALLATION OF UTILITIES IN CITY ROADS.

  C. SUITABLE COMPACTION AND APPROVED STONE & BASE COURSES TO BE INSTALLED IN PLACE OF
- D. OPEN CUT TO BE SAW CUT. 4. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS OF WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC
- AND MEET CITY AND/OR NCDOT STANDARDS. 5. IT SHALL BE THE RÉSPONSIBILITY OF THE SUBDIMDER TO ERECT OFFICIAL STREET NAME SIGNS AT ALL INTERSECTIONS ASSOCIATED WITH THE SUBDIVISION IN ACCORDANCE WITH THE TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL. THE SUBDIVIDER MAY ACQUIRE AND ERECT OFFICAL STREET NAME SIGNS OR MAY CHOOSE TO CONTRACT WITH THE CITY TO INSTALL THE STREET SIGNS AND THE
- 341–7888 TO DISCUSS INSTALLATION OF TRAFFIC AND AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS. 6. CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE

SUBDIVIDER SHALL PAY THE COST OF SUCH INSTALLATION. CONTACT TRAFFIC ENGINEERING AT

- RIGHT OF WAY 7. TACTILE WARNING MATS ARE TO BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- 8. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED. 9. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT OF WAY ARE TO BE MAINTAINED BY THE
- PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS. 10. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREA SHALL BE WHITE. 11. CONTACT TRAFFIC ENGINEERING AT 341–7888 TO DISCUSS STREET LIGHTING OPTIONS.
- 12. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30 INCHES - 10 FT.

#### **ENVIRONMENTAL NOTES:**

NO LAND DISTURBANCE IS PERMITTED OUTSIDE THE DESIGNATED LIMITS OF DISTURBANCE FOR SITE IMPROVEMENTS OTHER THAN WHAT IS NECESSARY TO TIE INTO EXISTING CONTOURS OR MEET

#### **DEVELOPMENT NOTES:**

- 1. ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD
- 2. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. CALL U-LOCO AT 1-800-632-4949. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ANY UTILITIES. CURB AND GUTTER. SIDEWALK PANELS. PAVEMENT, ETC...THAT MAY BE DAMAGED DURING CONSTRUCTION. DAMAGED ITEMS SHALL BE REPAIRED TO AT LEAST THE QUALITY OR WORKMANSHIP FOUND IN THE ORIGINAL ITEM.
- 3. SOLID WASTE DISPOSAL WILL BE HAND TOTES. 4. ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON ZONING ORDINANCE & SUBDIVISION REGULATIONS.
- 5. APPROVAL OF SITE PLAN DOES NOT CONSTITUTE APPROVAL OF PROPOSED SIGNAGE FOR THIS SITE. A SEPARATE SIGN PERMIT MUST BE OBTAINED.
- 6. APPLICABLE STREET FRONTAGES SHALL HAVE NATURAL VEGETATIVE SCREENING MEETING CITY
- 7. THE DEVELOPMENT SHALL COMPLY WITH ALL CITY TECHNICAL STANDARDS AND DEVELOPMENT

#### **WATER & SEWER USAGE NOTES:**

CURRENT WATER USAGE 2,775 GPD PROPOSED WATER USAGE 3,750 GPD CURRENT SEWER USAGE 2,775 GPD PROPOSED SEWER USAGE 3,750 GPD WATER -250 STUDENTS MAX. X 15 GPD =3,750 GPD

SEWER - 250 STUDENTS MAX. X 15 GPD = 3,750 GPD

#### FIRE & LIFE SAFETY NOTES:

- 1. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE FIRE HYDRANTS OR FDC'S. A 3FT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT.
- 2. CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION. 3. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE FIRE LINE PERMIT FROM COW FIRE AND LIFE
- SAFFTY DIVISION 910-343-0696 4. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO
- THE JOB SITE. 5. HYDRANTS MUST BE WITHIN 150 FT OF THE FDC.
- 6. FDC MUST BE WITHIN 40 FT OF FIRE APPARATUS PLACEMENT. 7. ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY
- SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT. 8. ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED.

#### **UTILITY NOTES:**

- . PROJECT SHALL COMPLY WITH THE CITY OF WILMINGTON AND CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE SET AND ACTIVATED ON NEW MAINS UNTIL ALL
- REQUIREMENTS ARE MET. CALL 343-3910 FOR INFORMATION.
- 2. IF THE CONTRACTOR DESIRES WATER FOR CONSTRUCTION HE/SHE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
- 3. ALL COMMERCIAL WATER SERVICES AND ANY IRRIGATION SYSTEMS SUPPLIED BY CFPUA WATER SHALL HAVE A BACKFLOW PREVENTION DEVICE ACCEPTABLE TO THE CFPUA AND APPROVED BY USCFCCCHR
- OR ASSE. CALL 799-6064 FOR INFORMATION.
- 4. WHEN PVC WATER MAINS AND/OR POLYETHYLENE SERVICES ARE PROPOSED, THE PIPES ARE TO BE MARKED WITH NO. 10 INSULATED COPPER WIRE INSTALLED THE ENTIRE LENGTH AND STRAPPED TO THE PIPES WITH DUCT TAPE. THE INSULATED WIRE IS TO BE STRIPPED TO BARE WIRE AND SECURED TO
- ALL VALVES AND FITTINGS. THE WIRE IS TO BE ACCESSIBLE AT ALL FIRE HYDRANTS AND WATER METER BOXES TO AID IN FUTURE LOCATION OF FACILITIES. 5. 36"MINIMUM COVER OVER ALL WATER MAINS.
- 6. ANY SEPARATE CONNECTION FOR IRRIGATION SHALL COMPLY WITH CITY AND CFPUA CROSS-CONNECTION REQUIREMENTS WITH APPROVED BACKFLOW PREVENTION DEVICES.
- 7. AT LOCATIONS WHERE WATER MAIN CROSSES UNDER SANITARY SEWER, DUCTILE IRON PIPE SHALL BE USED ALONG WITH PROVIDING 24" MINIMUM OF VERTICAL SEPARATION.
- 8. WATER SERVICES CAN NOT BE ACTIVATED ON NEW WATER MAINS UNTIL ENGINEER'S CERTIFICATION AND APPLICANT'S CERTIFICATION HAVE BEEN PROVIDED TO NCDENR AND "FINAL APPROVAL" ISSUED.
- 9. UNDERGROUND UTILITIES— ALL NEW UTILITIES SHALL BE INSTALLED UNDERGROUND, EXCEPT WHERE SUCH PLACEMENT IS PROHIBITED OR DEEMED IMPRACTICAL BY THE UTILITY PROVIDER. UNDERGROUND FACILITIES FOR STREET LIGHTING ALONG ALL PUBLIC STREETS ABUTTING THE SUBJECT SITE SHALL BE

## **PARKING NOTES:**

- 1. 1 PARKING SPACE FOR EACH TEACHER AND STAFF MEMBER. 42 SPACES REQ'D; 66 TOTAL PARKING SPACES PROVIDED.
- 2. 3 HANDICAP SPACES REQUIRED; 6 HANDICAPPED PARKING SPACES PROVIDED. 3. 5 BICYCLE PARKING SPACES REQUIRED. 5 PROVIDED.
- 4. ALL PROPOSED PARKING SPACES TO BE 9 FT X 18 FT. 5. PARKING STOPS TO BE PLACED ON SPACES THAT ADJOIN SIDEWALK.

# VARIANCE REQUESTS

- 1. SEE SPECIAL USE PLAN; # SU-8-504-E705-M616
- 2. DISTANCE FROM DRIVEWAY TO PROPERTY LINE IS LESS THAN 6.5 FT
- 3. 30 FT NORTH CORNER RADIUS AT CONNECTION OF 58 ST AND CAMELLIA LN. 4. 5 FT SIDEWALK ALONG BACK OF CURB INSTEAD OF 6 FT ALONG CAMELLIA LANE.

# **GENERAL NOTES:**

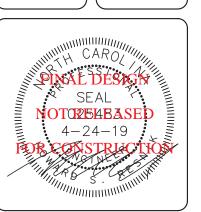
- 1. NEW HANOVER COUNTY PARCEL NUMBERS.
- PID = R06200 003 064 000
- 2. TOTAL PROJECT AREA: 339,591 SF (7.80 AC.) 3. EXISTING ZONING DISTRICT: R-15
- 4. LAND CLASSIFICATION: RESOURCE PROTECTION
- 5. THIS SITE IS LOCATED WITHIN ZONE "X" ACCORDING TO FEMA FIRM COMMUNITY PANEL NUMBER 3720314600K, EFFECTIVE DATE 8/28/18
- 6. SITE ADDRESS 350 PEIFFER AVE. 7. EXISTING IMPERVIOUS ONSITE = 47,195 SF
- 8. BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED AND PROVIDED TO CSD ENGINEERING BY GARY W. KEYES LAND SURVEYING, P.C. C-4086 VERTICAL DATUM = 88
- 9. STORMWATER DRAINS TO UT TO HEWLETTS CREEK SA; HQW 18-87-26 10. LAND OWNER - FRIENDS SCHOOL OF WILMINGTON INC 350 PEIFFER AVENUE WILMINGTON, NC 28409



*LICENSE # C-2710* **ENGINEERING** LAND PLANNING COMMERCIAL / RESIDENTIAL

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WILMINGTON, NC 28406 (910) 791–4441



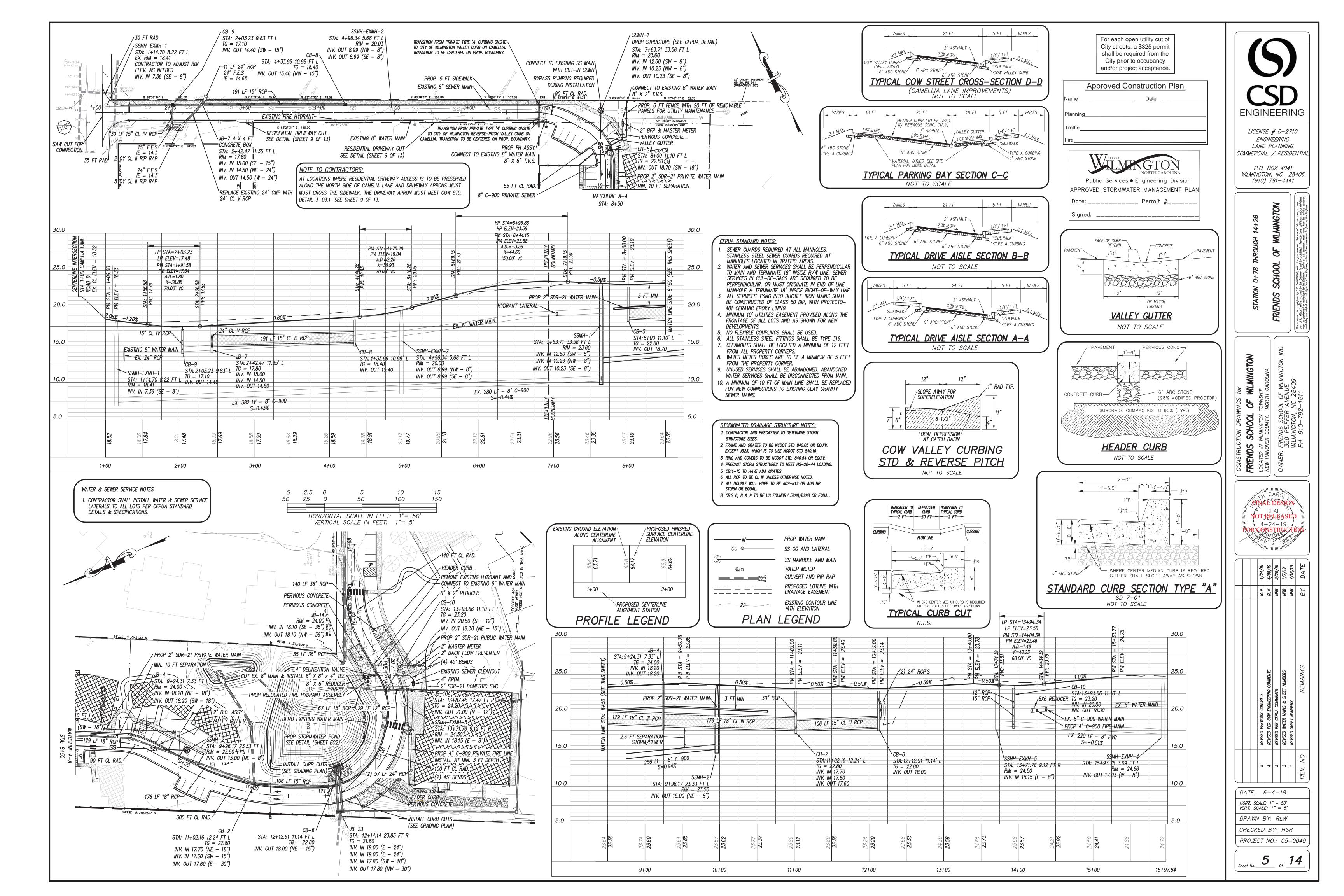
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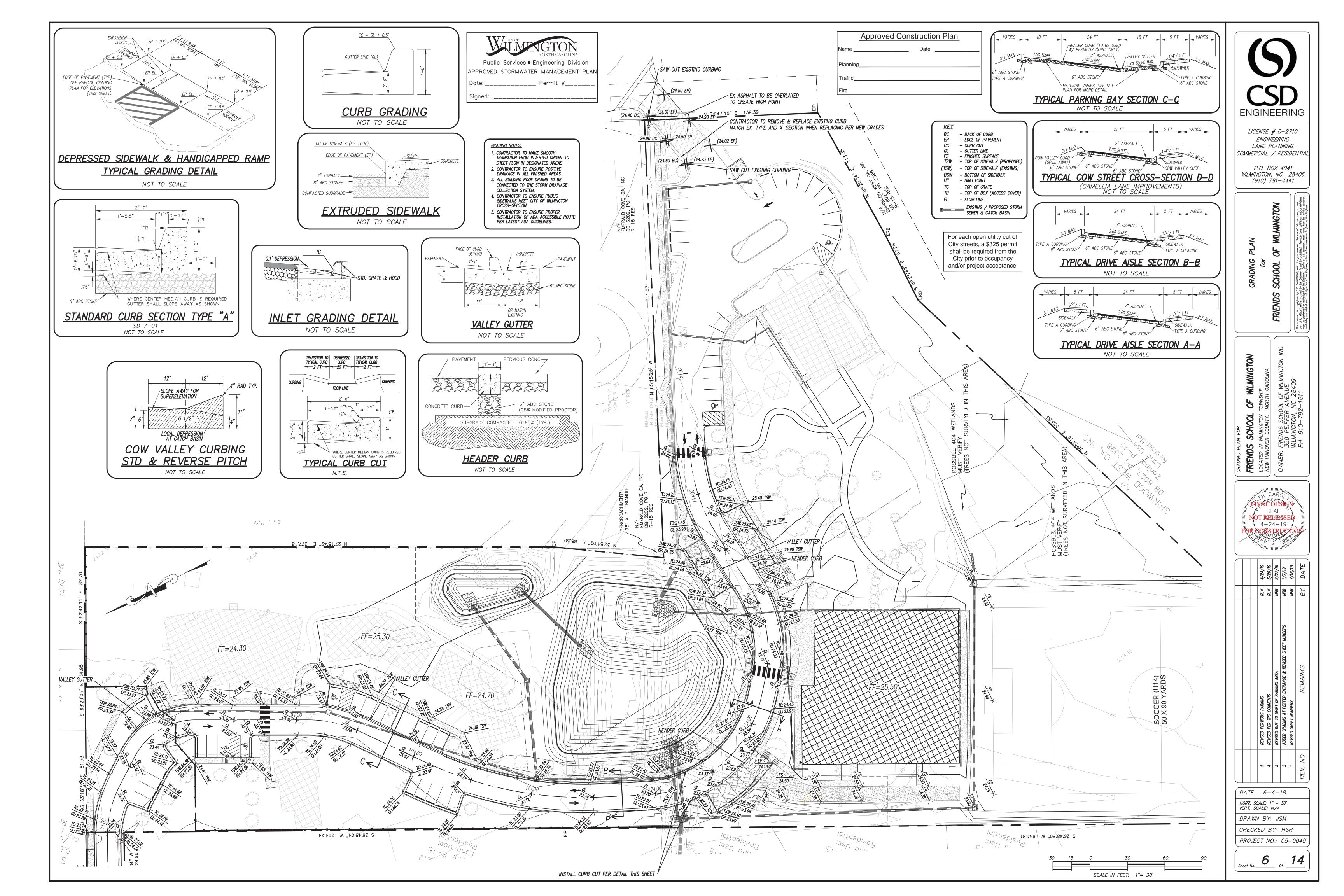
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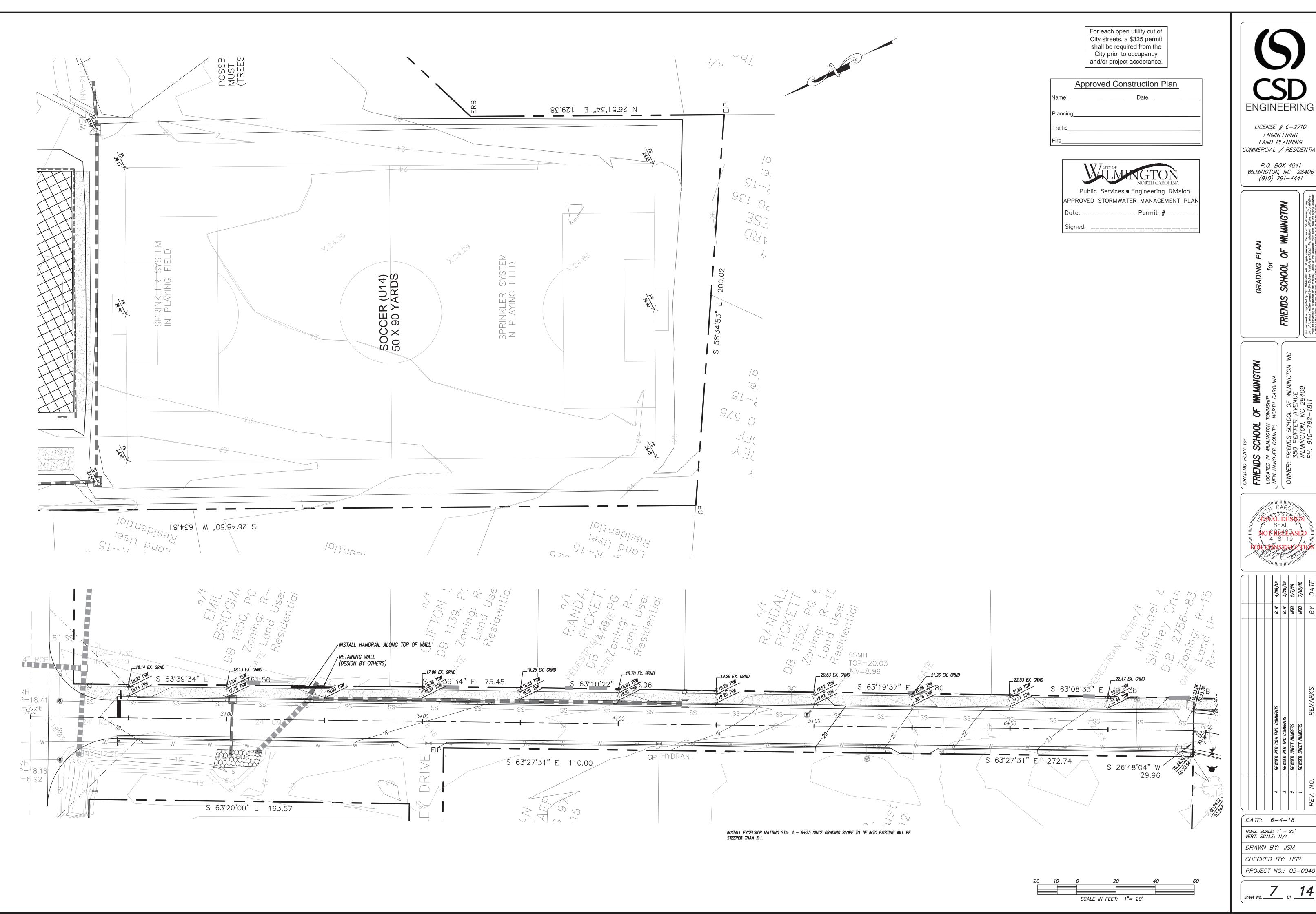
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PROJECT NO.: 05-0040

Sheet No. \_\_\_\_\_ Of \_\_\_\_\_



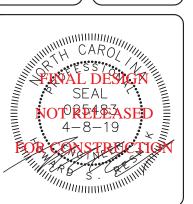


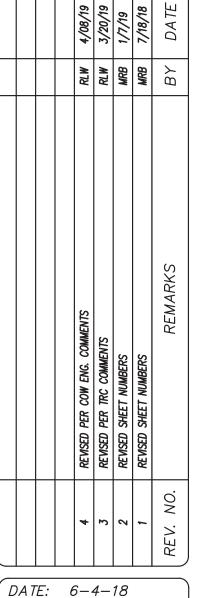


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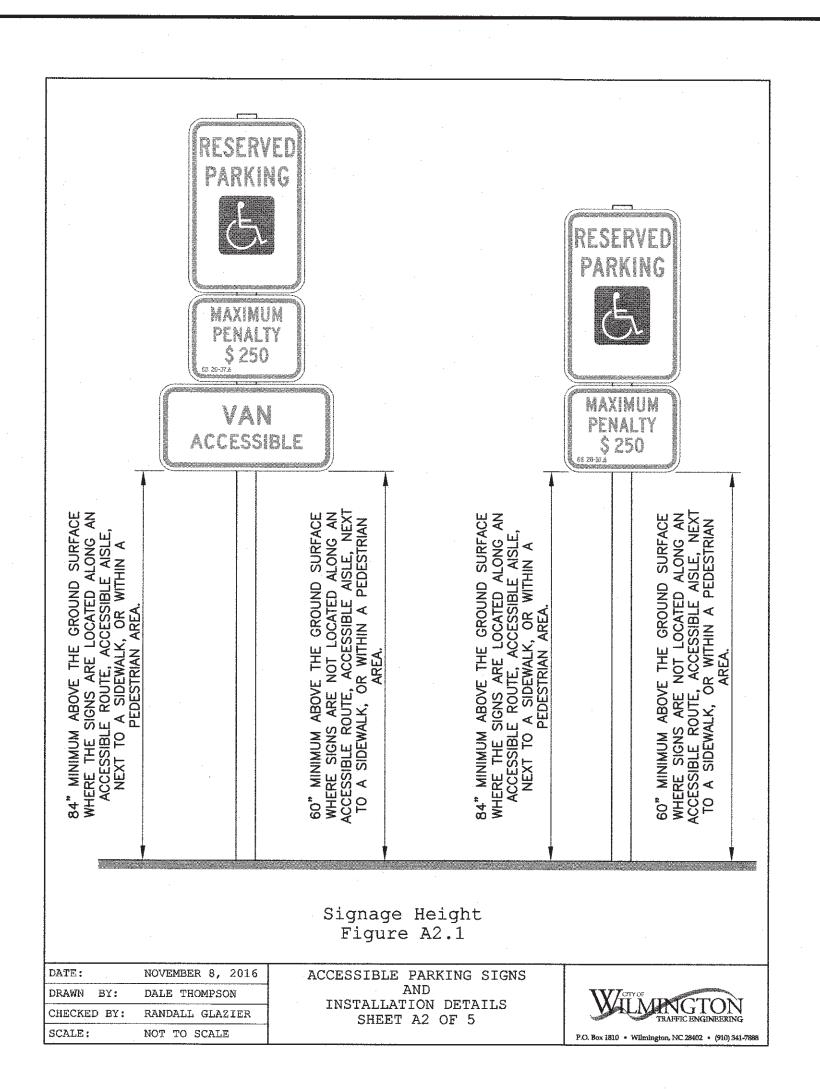
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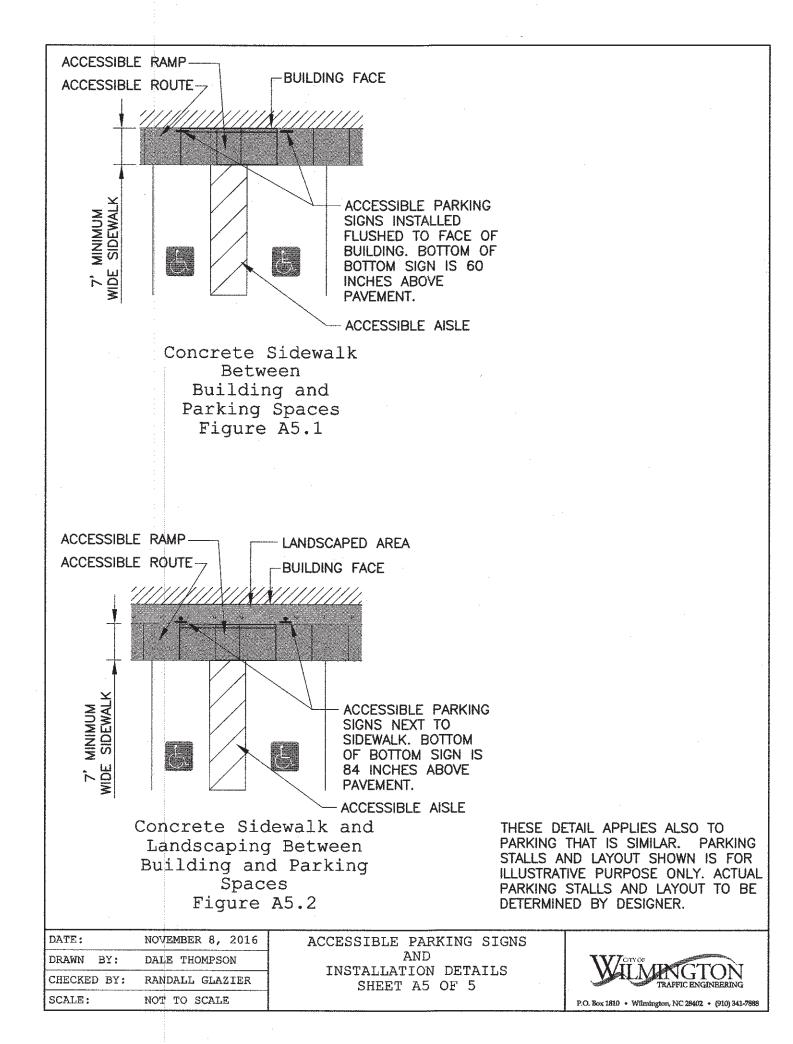
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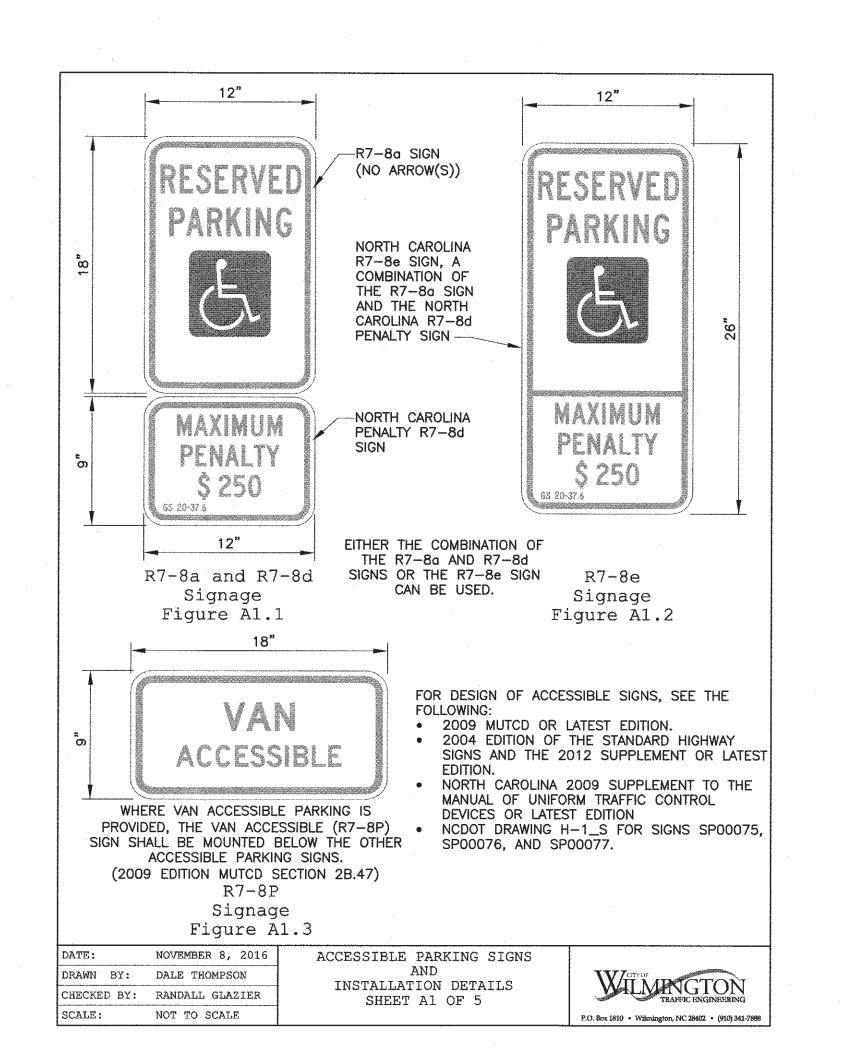


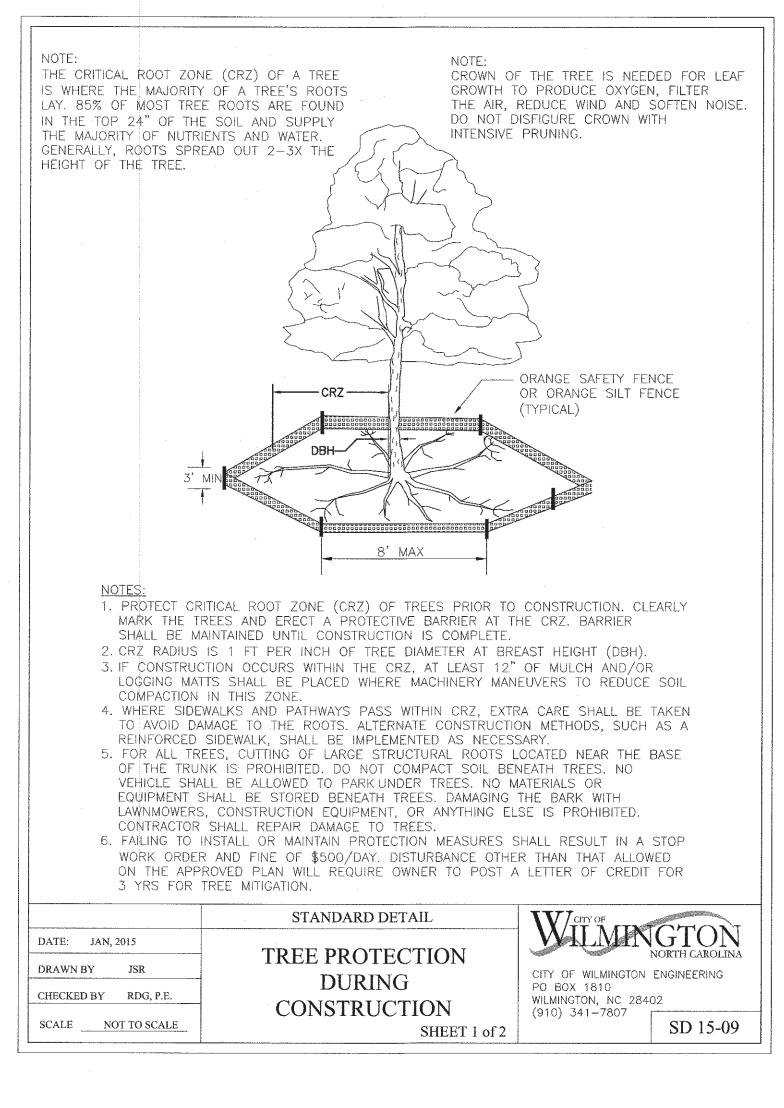


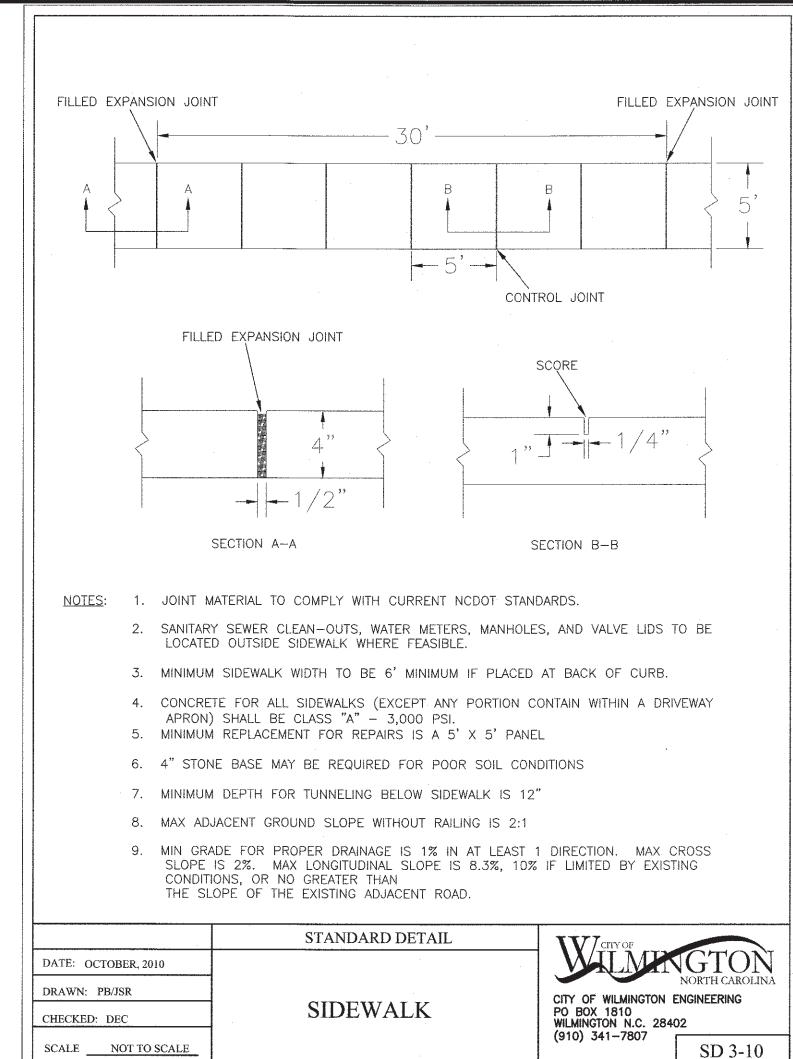
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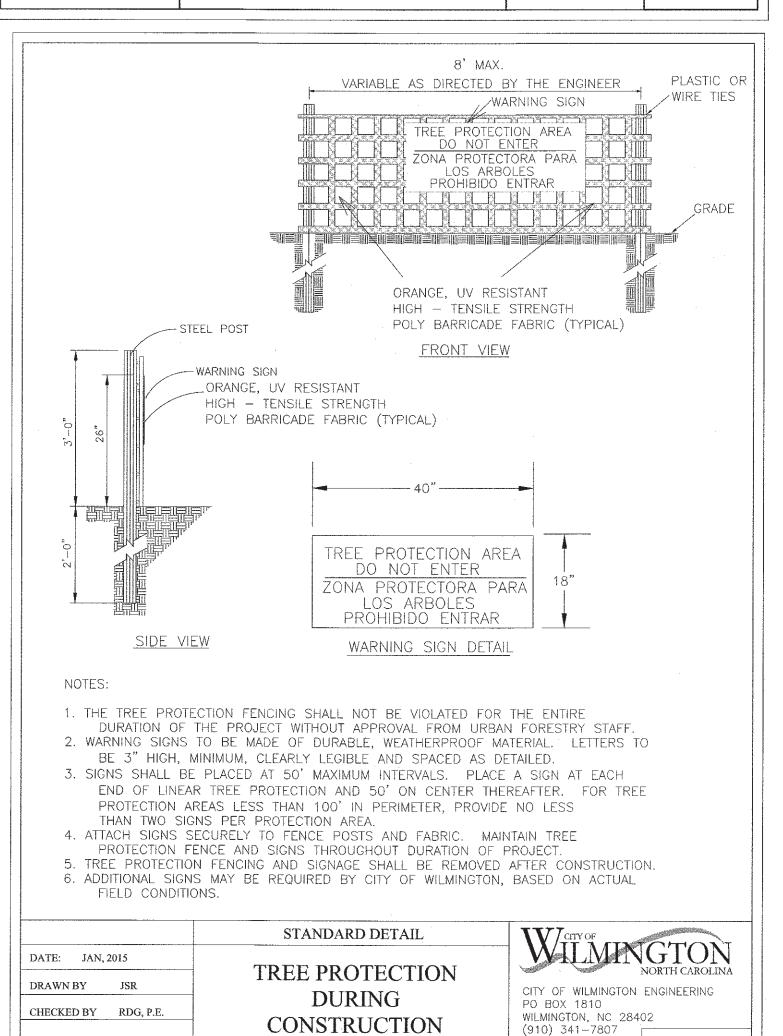








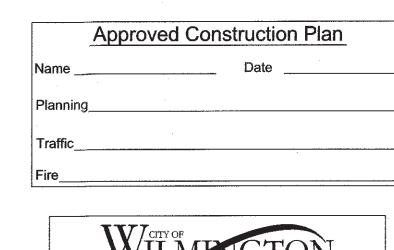




SHEET 2 of 2

SD 15-09

SCALE NOT TO SCALE



Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_\_ Permit #\_\_\_\_\_\_

Signed: \_\_\_\_\_\_

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

(S) CSD ENGINEERING

LICENSE # C-2710
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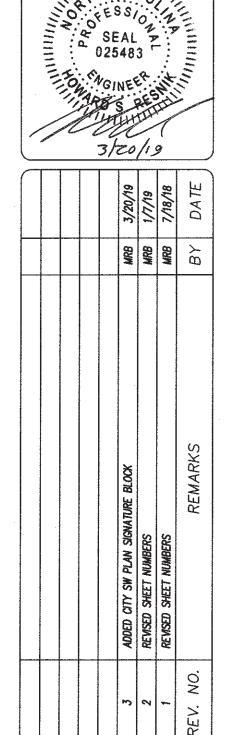
ED IN WILMINGTON TOWNSHIP

IANOVER COUNTY, NORTH CAROLINA

IR: FRIENDS SCHOOL OF WILMINGTON INC

350 PEIFFER AVENUE

WILMINGTON NC 28409



DATE: 6-4-18

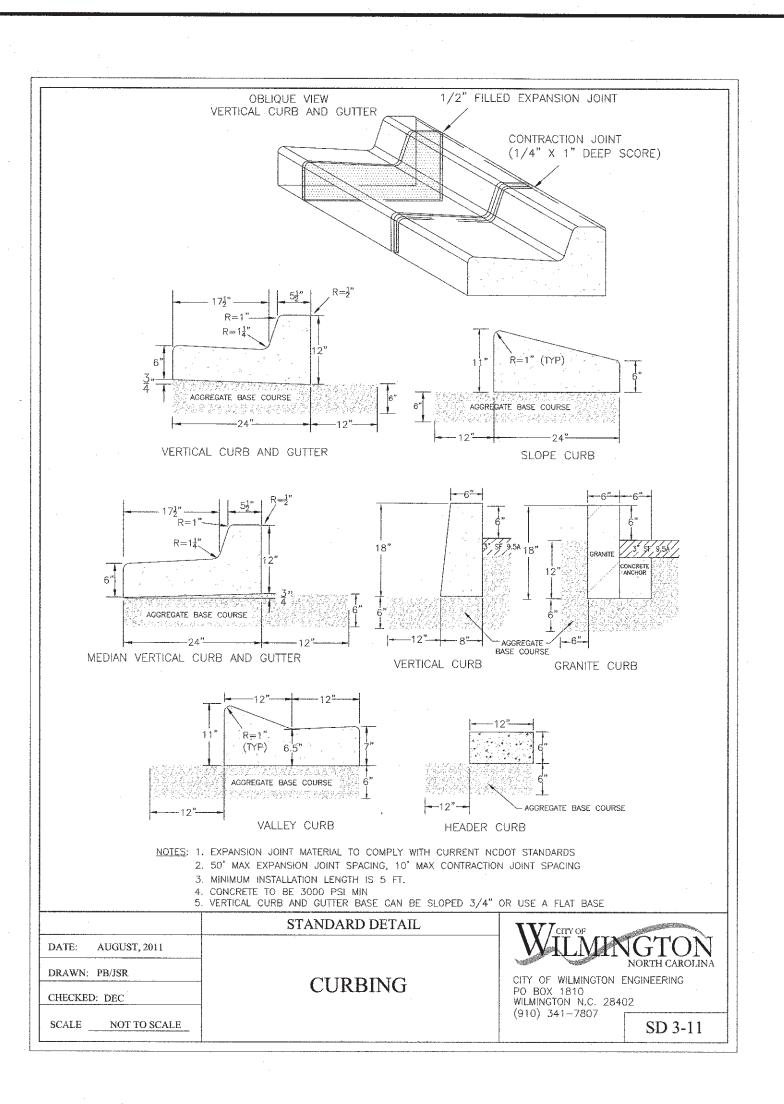
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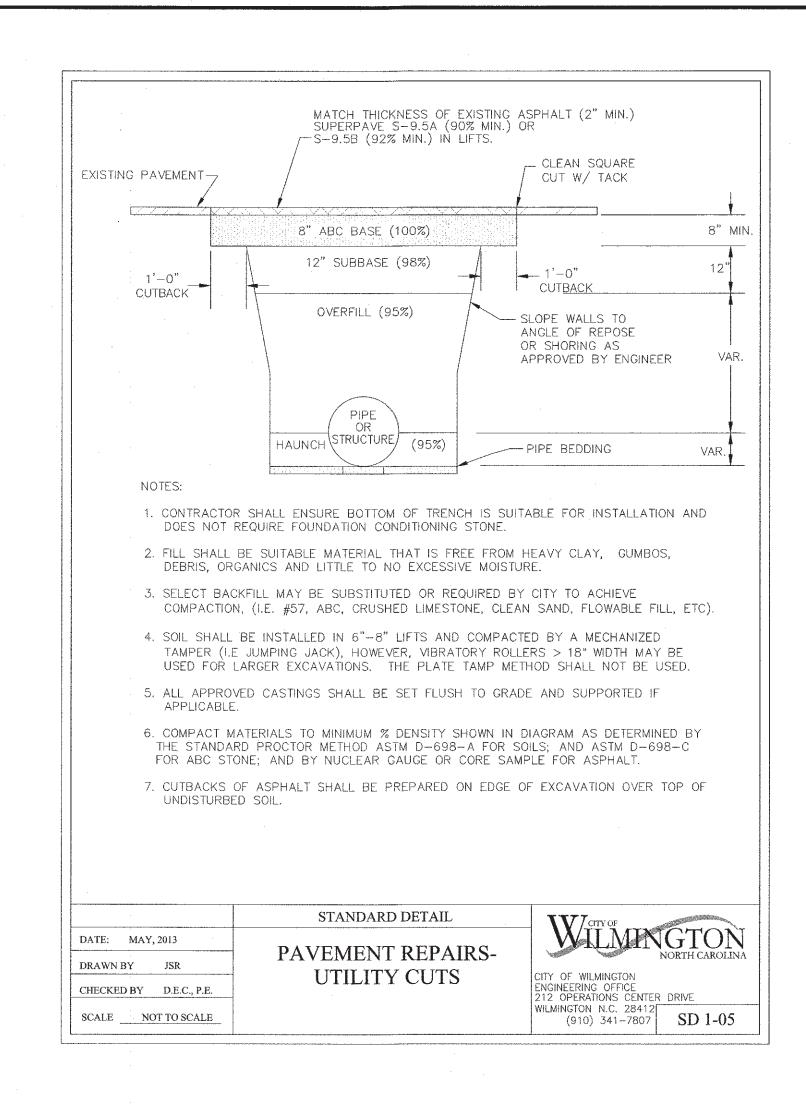
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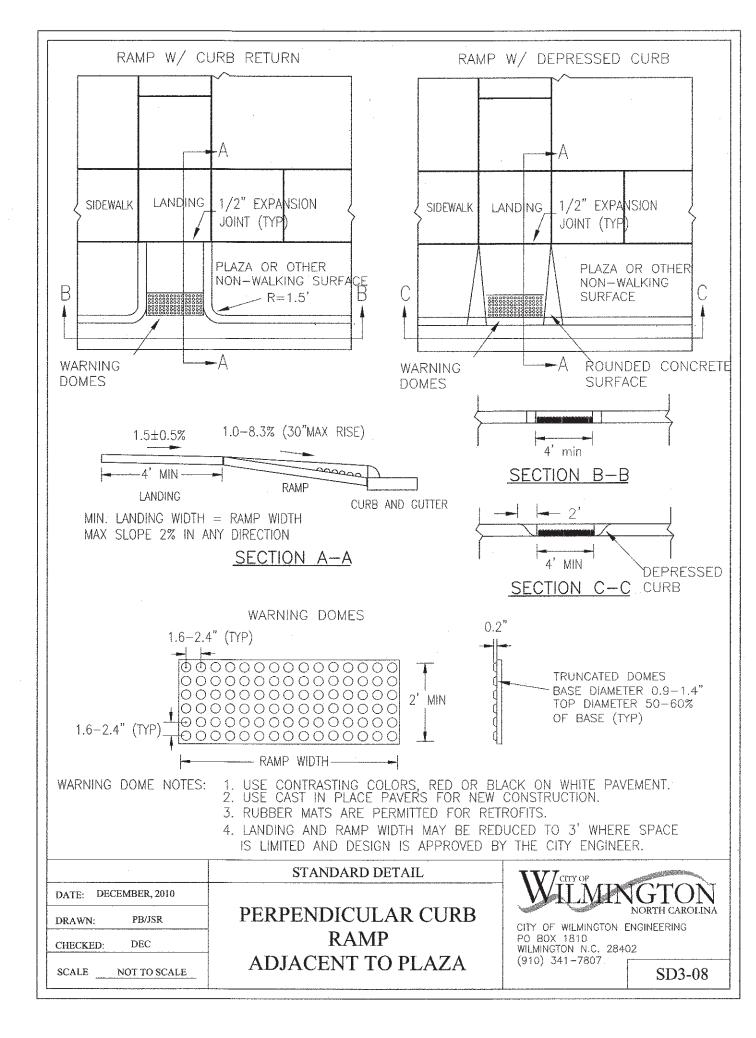
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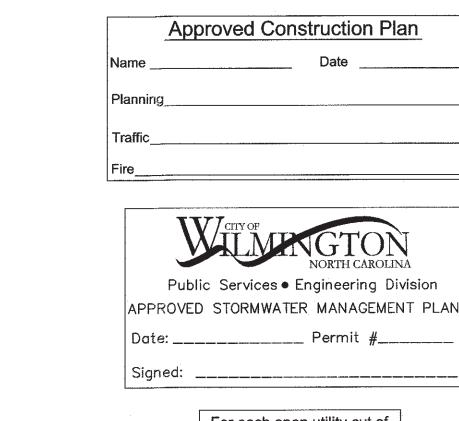
PROJECT NO.: 05-0040

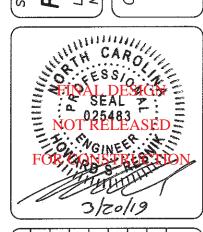
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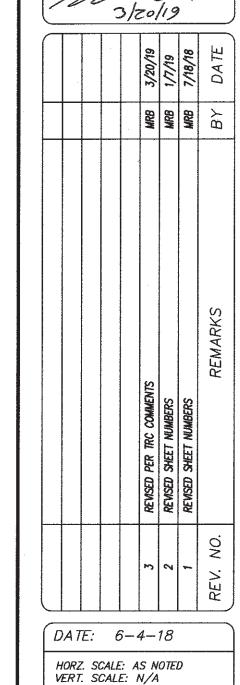








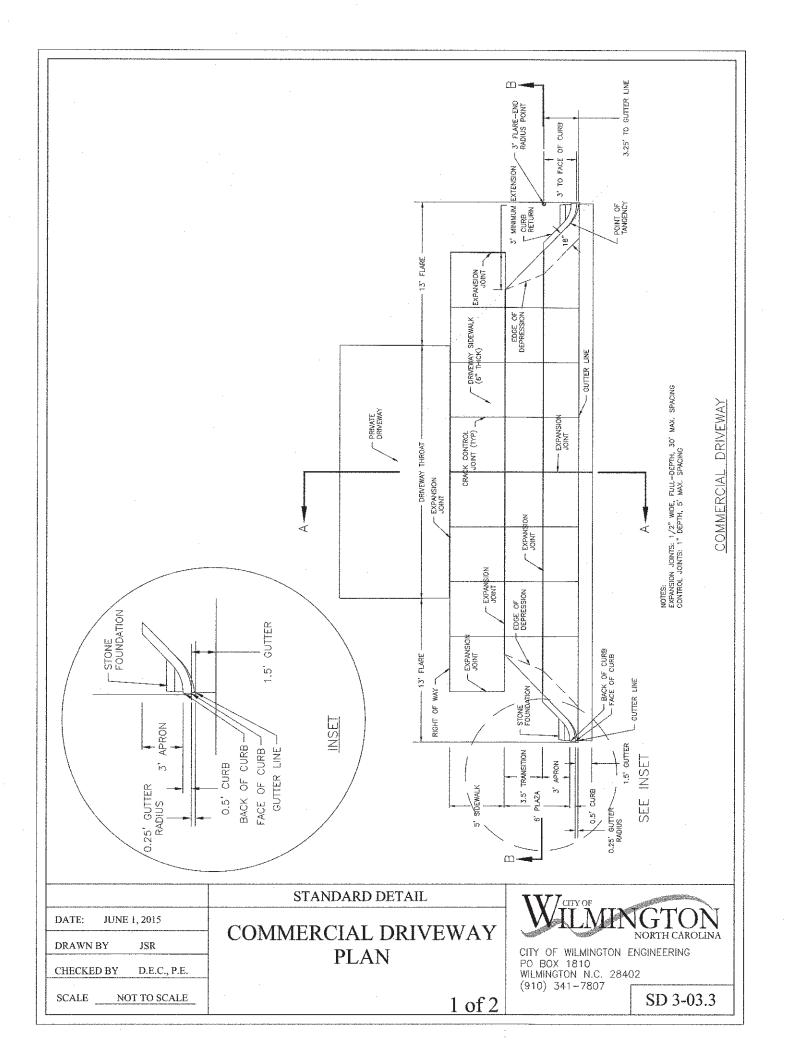


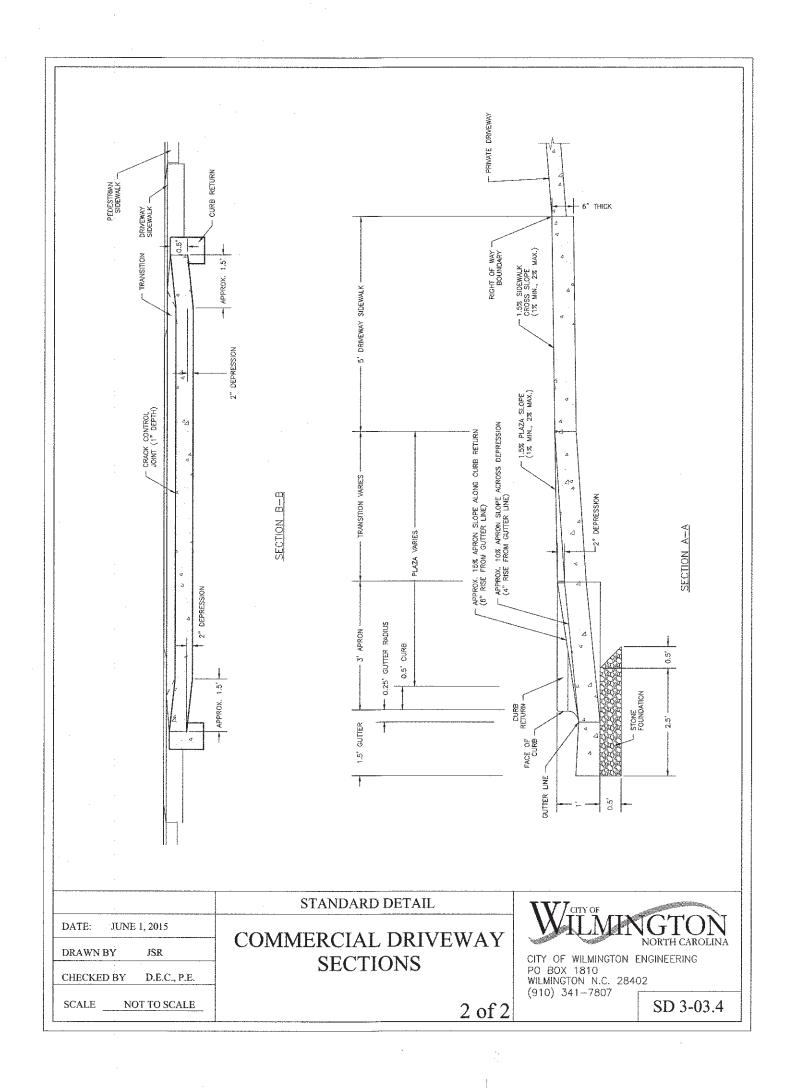


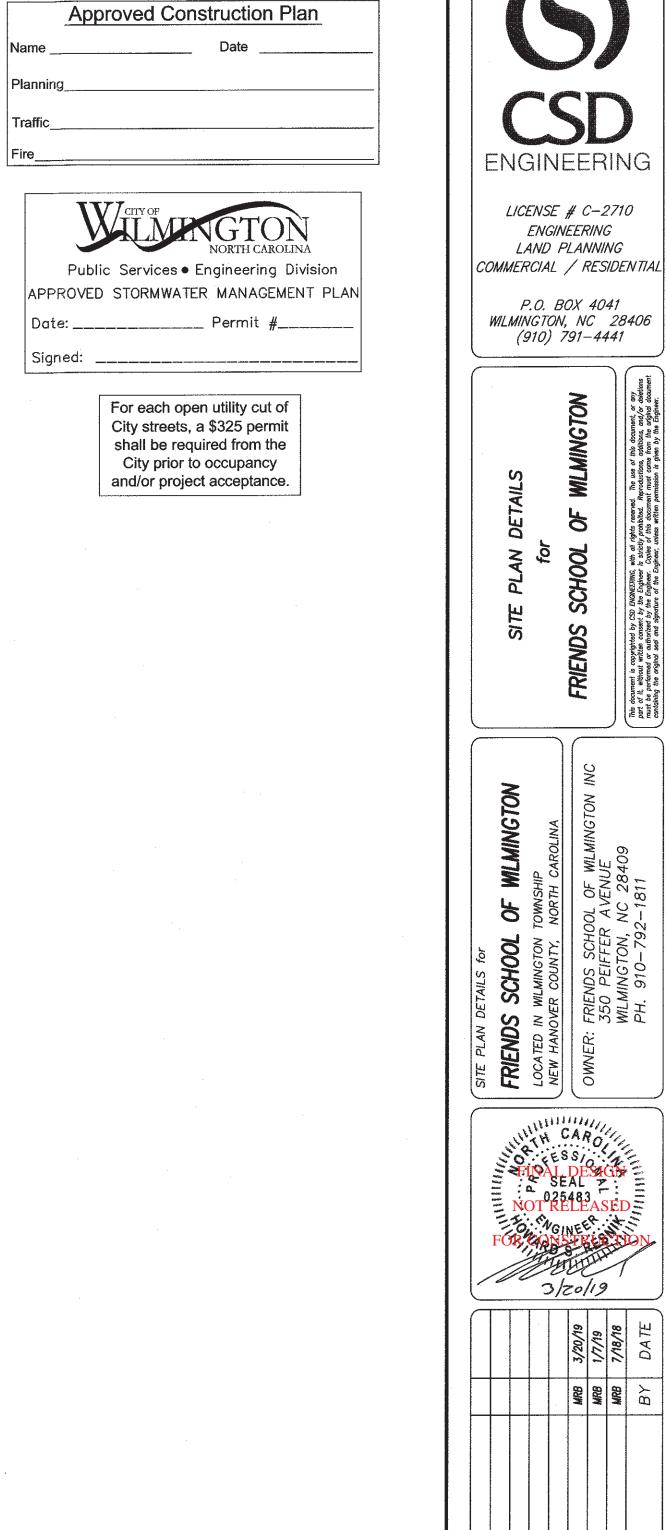
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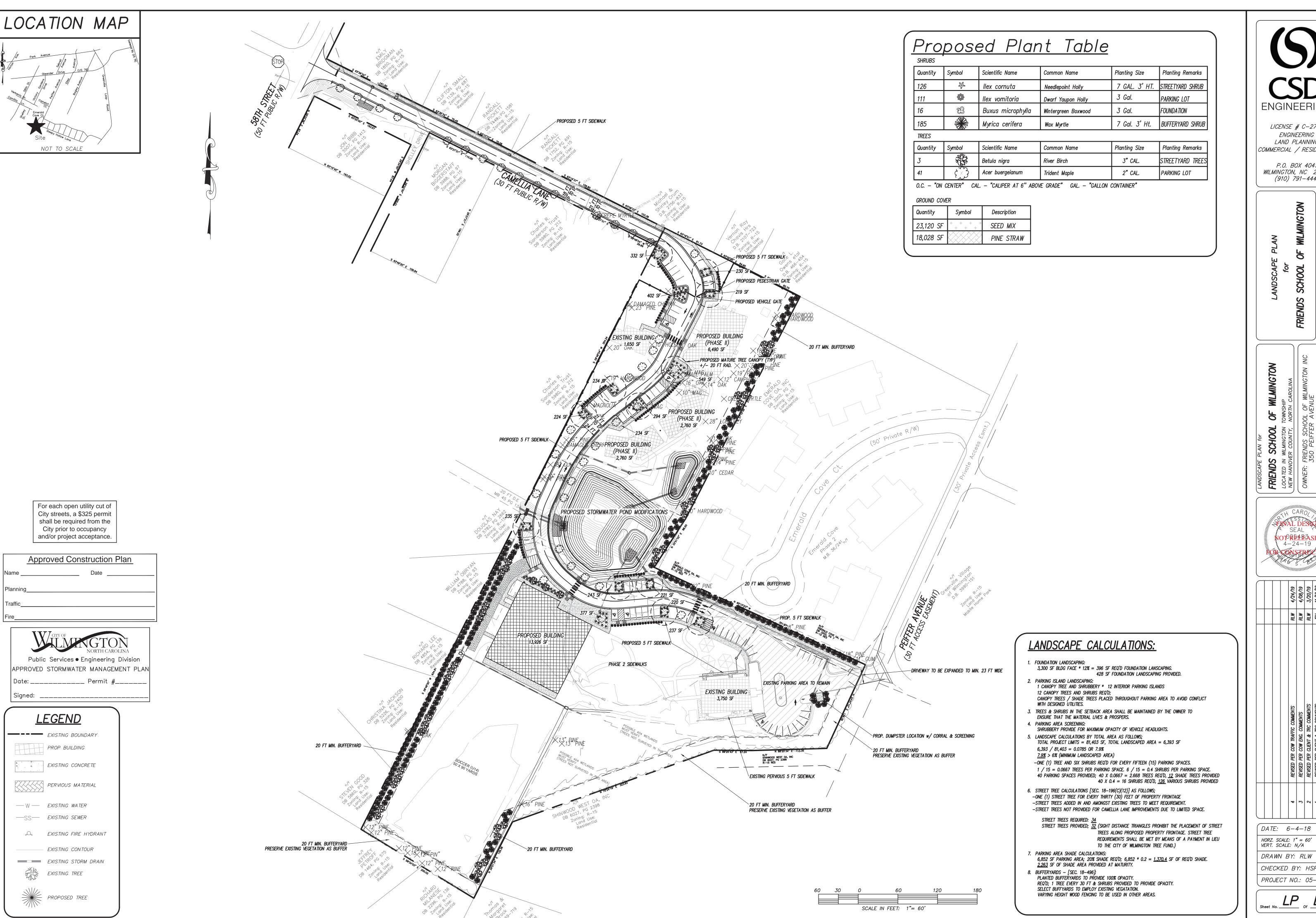
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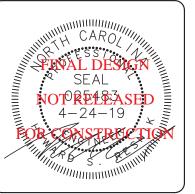




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| DATE: 6-4-18

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CHECKED BY: HSR PROJECT NO.: 05-0040

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