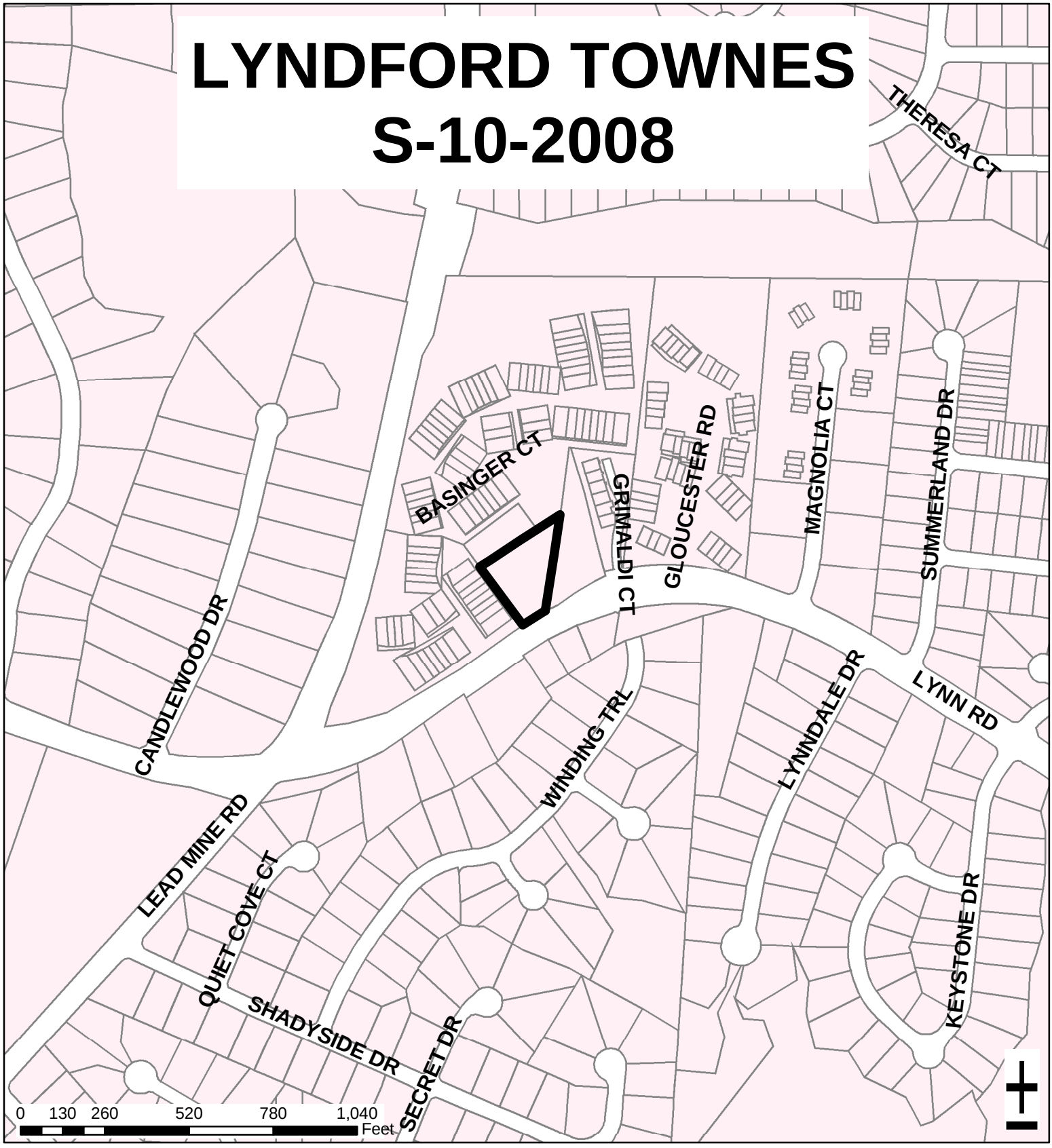
LYNDFORD TOWNES
S-10-2008

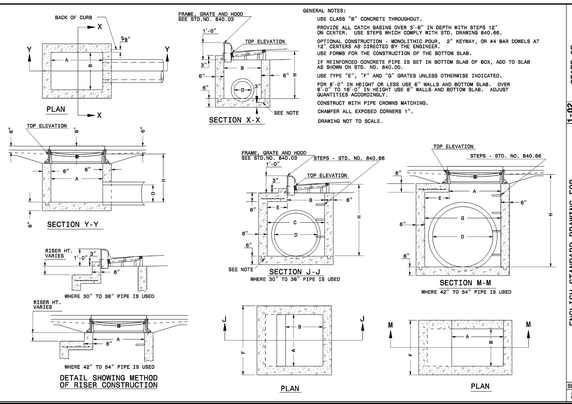


Zoning:	**R-6 CUD**	Acres:	**1.002**
Planning		Number of Lots:	**6**
District:	**North**	Planner:	**Meade Bradshaw**
CAC:	**North**	Phone:	**(919) 516-2664**
Drainage		Applicant Contact:	**Dalton Engineering & Assoc.**
Basin:	**Mine Creek**	Phone:	**(919) 550-4740**

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-02

ENGLISH STANDARD DRAWING FOR
CONCRETE CATCH BASIN
12" THRU 54" PIPE



GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

PROVIDE ALL CATCH BASINS OVER 5'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, ON #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.

FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 12'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.

CONSTRUCT WITH PIPE CROWNS MATCHING.

CHAMFER ALL EXPOSED CORNERS 1".

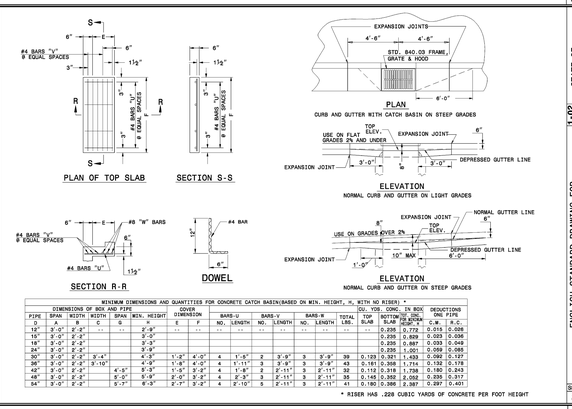
DRAWING NOT TO SCALE.

SHEET 1 OF 2
840.02

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-02

ENGLISH STANDARD DRAWING FOR
CONCRETE CATCH BASIN
12" THRU 54" PIPE



MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN(BASED ON MIN. HEIGHT, H, WITH NO RISER) *

DIMENSIONS OF BOX AND PIPE						COVER DIMENSION		BARS-U		BARS-V		BARS-W			TOTAL WT.	CONC. IN BOX BOTTOM SLAB	DEDUCTIONS FOR ONE PIPE	
PIPE	SPAN	WIDTH	WIDTH	SPAN	MIN. HEIGHT	E	F	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	LBS.	SLAB	CU.YDS.	C.Y.	S.F.
12"	3'-0"	2'-0"			2'-9"										0.235	0.778	0.015	0.026
15"	3'-0"	2'-6"			3'-0"										0.235	0.852	0.023	0.036
18"	3'-0"	2'-9"			3'-3"										0.235	0.887	0.033	0.049
24"	3'-0"	3'-3"			3'-9"										0.235	1.021	0.059	0.085
30"	3'-0"	3'-9"	3'-4"		4'-3"	1'-8"	4'-0"	4	1'-8"	2	3'-9"	3	8'-9"	39	0.123	0.921	0.092	0.127
36"	3'-0"	4'-3"	3'-10"		4'-9"	1'-8"	4'-0"	4	1'-11"	3	3'-9"	3	9'-3"	43	0.161	0.998	0.132	0.178
42"	3'-0"	4'-9"		4'-5"	5'-3"	1'-8"	4'-0"	4	1'-8"	2	2'-11"	3	2'-11"	32	0.113	0.918	1.728	0.180	0.243
48"	3'-0"	5'-3"		5'-0"	5'-9"	1'-8"	4'-0"	4	2'-3"	3	2'-11"	3	2'-11"	36	0.145	0.952	2.052	0.235	0.317
54"	3'-0"	5'-9"		5'-7"	6'-3"	2'-7"	3'-2"	4	2'-10"	5	2'-11"	3	2'-11"	41	0.180	0.986	2.387	0.297	0.401

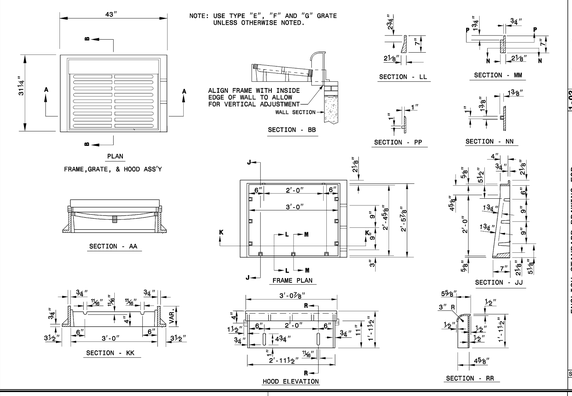
* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

SHEET 2 OF 2
840.02

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-02

ENGLISH STANDARD DRAWING FOR
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN

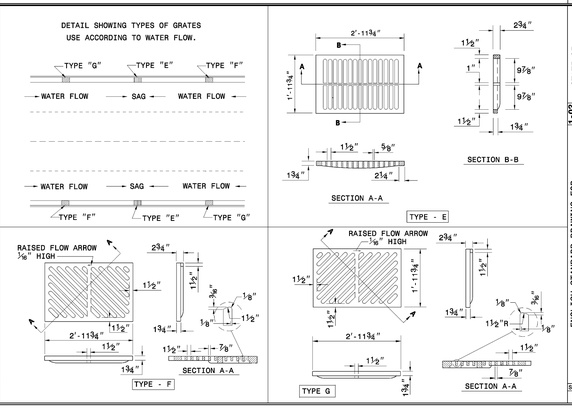


SHEET 1 OF 2
840.03

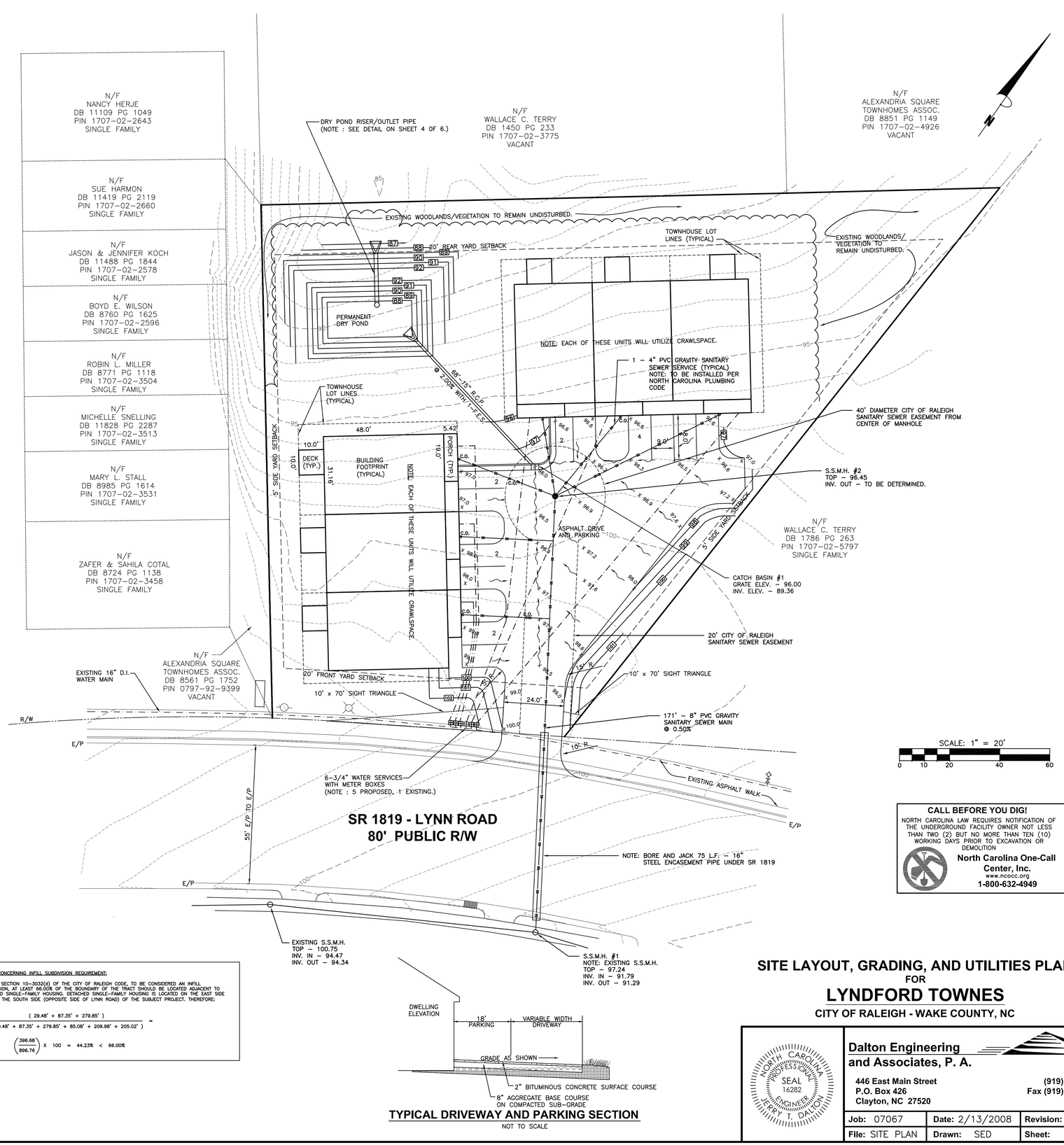
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-02

ENGLISH STANDARD DRAWING FOR
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN



SHEET 2 OF 2
840.03



NOTES CONCERNING INFILL SUBDIVISION REQUIREMENT:

AS PER SECTION 10-3032(d) OF THE CITY OF RALEIGH CODE, TO BE CONSIDERED AN INFILL SUBDIVISION, AT LEAST 66.00% OF THE BOUNDARY OF THE TRACT SHOULD BE LOCATED ADJACENT TO DETACHED SINGLE-FAMILY HOUSING. DETACHED SINGLE-FAMILY HOUSING IS LOCATED ON THE EAST SIDE AND ON THE SOUTH SIDE (OPPOSITE SIDE OF LYNN ROAD) OF THE SUBJECT PROJECT. THEREFORE:

$$\frac{(\ 29.48' + 87.35' + 279.85'\ )}{(\ 29.48' + 87.35' + 279.85' + 85.08' + 209.98' + 205.02'\ )} =$$

$$\left(\frac{396.68}{896.76}\right) \times 100 = 44.23\% < 66.00\%$$

TYPICAL DRIVEWAY AND PARKING SECTION
NOT TO SCALE

CALL BEFORE YOU DIG!
NORTH CAROLINA LAW REQUIRES NOTIFICATION OF THE UNDERGROUND FACILITY OWNER NOT LESS THAN TWO (2) BUT NO MORE THAN TEN (10) WORKING DAYS PRIOR TO EXCAVATION OR DEMOLITION
North Carolina One-Call Center, Inc.
www.ncocc.org
1-800-632-4949

SITE LAYOUT, GRADING, AND UTILITIES PLAN
FOR
LYNDFORD TOWNES
CITY OF RALEIGH - WAKE COUNTY, NC

NORTH CAROLINA PROFESSIONAL SEAL 16282 ENGINEER TERRY T. DALTON

Dalton Engineering and Associates, P. A.
446 East Main Street
P.O. Box 426
Clayton, NC 27520
(919) 550-4740
Fax (919) 550-4741

Job: 07067	Date: 2/13/2008	Revision:
File: SITE PLAN	Drawn: SED	Sheet: 3 OF 7