CIVIL ENGINEER
THOMAS FIORELLO
SENIOR TRANSPORTATION ENGINEER
JED NIFFENEGGER, PE

THE CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

J. RUSSELL ALLEN
CITY MANAGER

NANCY L. McFARLANE
MAYOR

2011 TRAFFIC CALMING MINOR PROJECTS
PUBLIC HEARING APRIL 3, 2012

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PUBLIC WORKS DEPARTMENT

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DRAWN BY: T FIORELLO

CHECKED BY:

REVISIONS

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SCALES

HSCALE:

VSCALE: N/A

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TRAFFIC CALMING PROJECT

NORTH HILLS DR to SIX FORKS RD

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SCALES

HSCALE:

VSCALE: N/A

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SHELLEY ROAD

TRAFFIC CALMING PROJECT

NORTH HILLS DR to SIX FORKS RD

DATE:

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SCALES

HSCALE:

VSCALE: N/A

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2011 MINOR PROJECTS

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CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

SHELLEY ROAD

TRAFFIC CALMING PROJECT

NORTH HILLS DR to SIX FORKS RD

DATE:	
DRAWN BY:	T FIORELLO
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REVISIONS

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1	2-7-2012

SCALES

HSCALE:

VSCALE: N/A

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SHELLEY CALMING 3

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SHELLEY ROAD

TRAFFIC CALMING PROJECT

NORTH HILLS DR to SIX FORKS RD

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1	2-7-2012

SCALES

HSCALE:

VSCALE: N/A

PROJECT

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SHELLEY CALMING 4

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SHELLEY ROAD

TRAFFIC CALMING PROJECT

NORTH HILLS DR to SIX FORKS RD

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SCALES

HSCALE:

VSCALE: N/A

PROJECT
2011 MINOR PROJECTS

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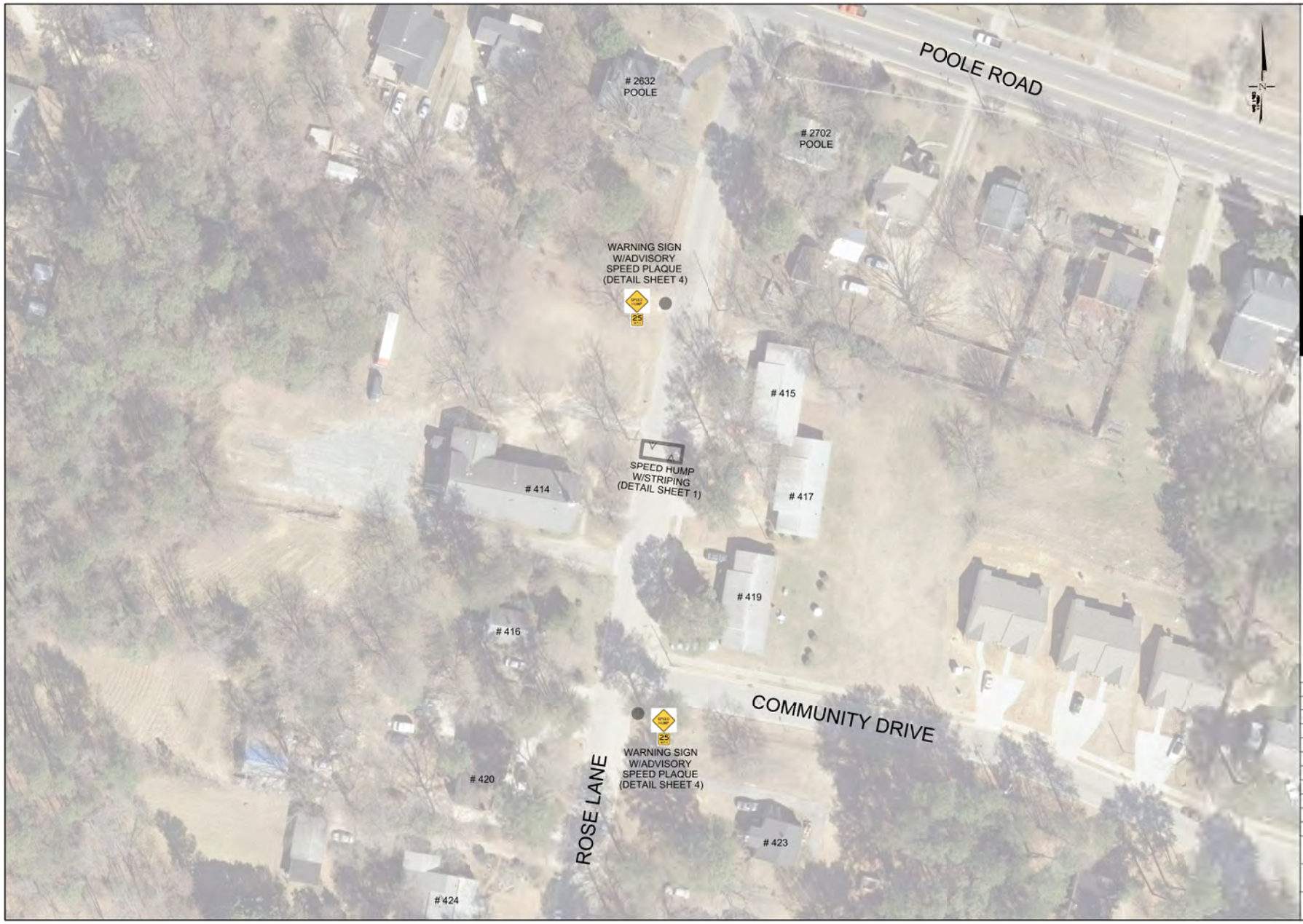
SHELLEY CALMING 5



CITY OF RALEIGH

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ROSE LANE

TRAFFIC CALMING PROJECT

MAPLEWOOD LN to POOLE RD

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SCALES

HSCALE:

VSCALE: N/A

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ROSE LANE

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HSCALE:	
VSCALE:	N/A
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ROSE LANE

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SCALES

HSCALE:

VSCALE: N/A

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ROSE LANE

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SCALES

HSCALE:

VSCALE: N/A

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ROSE LANE

TRAFFIC CALMING PROJECT

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SCALES

HSCALE:

VSCALE: N/A

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ROSE LANE

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SCALES

HSCALE:

VSCALE: N/A

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ROSE CALMING 6

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ROSE LANE

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SCALES	
HSCALE:	
VSCALE: N/A	
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ROSE LANE

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DRAWN BY: T.FIORELLO

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SCALES

HSCALE:

VSCALE: N/A

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ROSE CALMING 8

CITY OF RALEIGH

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ROSE LANE

TRAFFIC CALMING PROJECT

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SCALES

HSCALE:

VSCALE: N/A

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ROSE CALMING 9

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BAUGH STREET

TRAFFIC CALMING PROJECT

STARMONT DR to BUFFALOE RD

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SCALES

HSCALE:

VSCALE: N/A

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BAUGH CALMING 1

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BAUGH STREET

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SCALES	
HSCALE:	
VSCALE: N/A	
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SCALES	
HSCALE:	
VSCALE:	N/A
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STARMONT DR to BUFFALOE RD

DATE:	
DRAWN BY:	T FINSWELD
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REVISIONS

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SCALES

HSCALE:

VSCALE: N/A

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BAUGH CALMING 4

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BAUGH STREET

TRAFFIC CALMING PROJECT

STARMONT DR to BUFFALOE RD

DATE:	
DRAWN BY:	T FIORELLO
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REVISIONS

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SCALES

HSCALE:

VSCALE: N/A

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BAUGH CALMING 5

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WIMBLETON DRIVE

TRAFFIC CALMING PROJECT

SHELLEY DR to SHELLEY DR

DATE:	
DRAWN BY:	T FIORELLO
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REVISIONS

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SCALES

HSCALE:

VSCALE: N/A

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WIMBLETON CALMING 1

CITY OF RALEIGH

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WIMBLETON DRIVE

TRAFFIC CALMING PROJECT

SHELLEY DR to SHELLEY DR

DATE:	
DRAWN BY:	Y FIORELLO
CHECKED BY:	

REVISIONS

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1	2-7-2012

SCALES

HSCALE:

VSCALE: N/A

PROJECT
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WIMBLETON CALMING 2

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WIMBLETON DRIVE

TRAFFIC CALMING PROJECT

SHELLEY DR to SHELLEY DR

DATE:

DRAWN BY: [illegible]

CHECKED BY:

REVISIONS

NO.	DATE

SCALES

HSCALE:

VSCALE: N/A

PROJECT

2011 MINOR PROJECTS

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WIMBLETON CALMING 3

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NORTHBROOK DRIVE

TRAFFIC CALMING PROJECT

NORTH HILLS DR to PAMLICO DR

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SCALES

HSCALE:

VSCALE: N/A

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NORTHBROOK CALMING 1

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TRAFFIC CALMING PROJECT

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SCALES

HSCALE:

VSCALE: N/A

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NORTHBROOK DRIVE

TRAFFIC CALMING PROJECT

NORTH HILLS DR to PAMLICO DR

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SCALES

HSCALE:

VSCALE: N/A

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GLASCOCK STREET

TRAFFIC CALMING PROJECT

WAKE FOREST RD to NORRIS ST

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SCALES

HSCALE:

VSCALE: N/A

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GLASCOCK CALMING 1

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WAKE FOREST RD to NORRIS ST

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SCALES

HSCALE:

VSCALE: N/A

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GLASCOCK CALMING 2

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GLASCOCK STREET

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HSCALE:

VSCALE: N/A

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TRAFFIC CALMING PROJECT

AVENT FERRY RD to MERWIN RD

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SCALES

HSCALE:

VSCALE: N/A

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SCALES

HSCALE:

VSCALE: N/A

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SCALES

HSCALE:

VSCALE: N/A

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HSCALE:

VSCALE: N/A

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EAST ROWAN STREET

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SIX FORKS RD to LAKEMONT DR

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SCALES

HSCALE:

VSCALE: N/A

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EAST ROWAN CALMING 1

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HSCALE:

VSCALE: N/A

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EAST ROWAN CALMING 2

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EAST ROWAN STREET

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SIX FORKS RD to LAKEMONT DR

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HSCALE:

VSCALE: N/A

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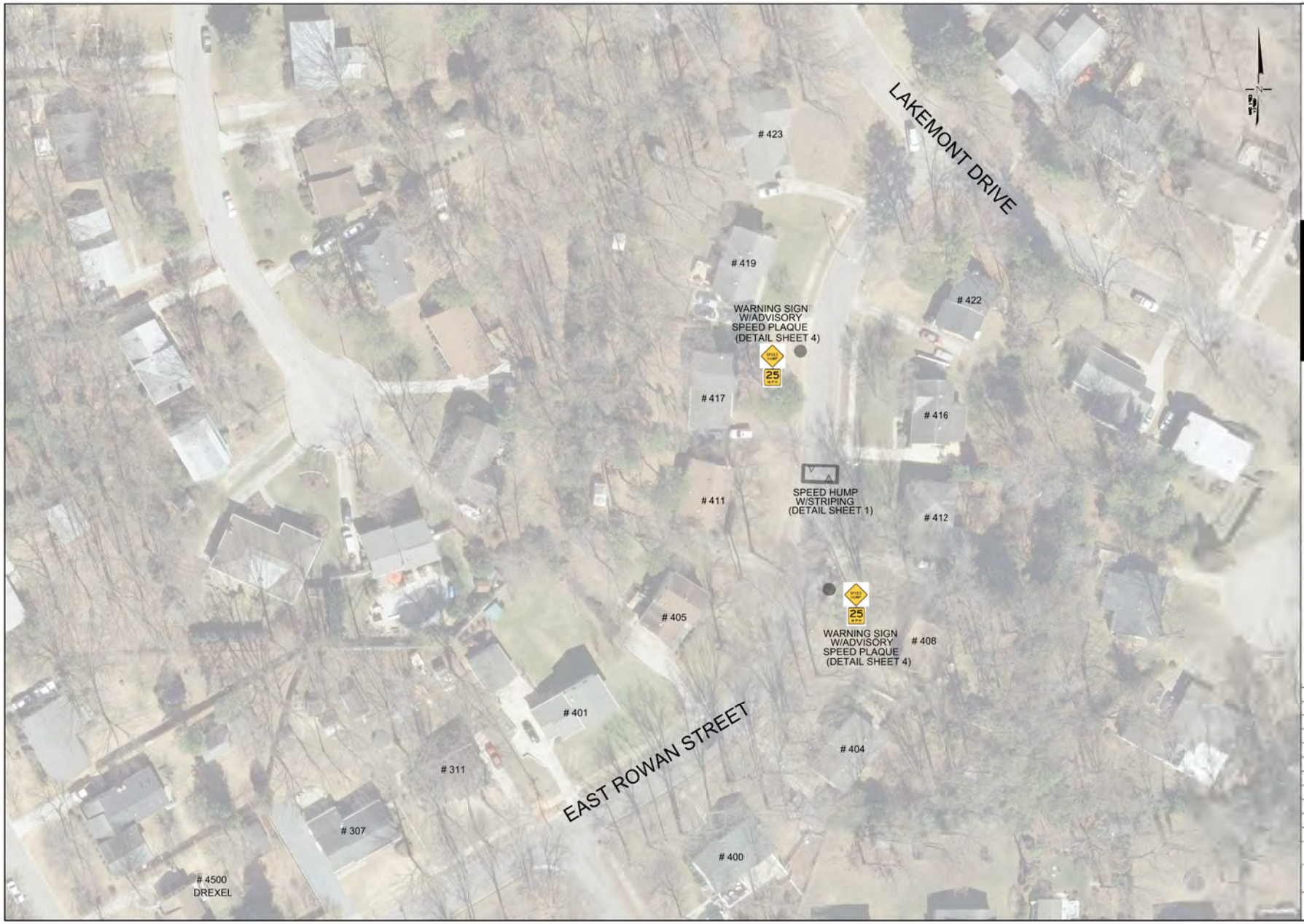
EAST ROWAN CALMING 3



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EAST ROWAN STREET

TRAFFIC CALMING PROJECT

SIX FORKS RD to LAKEMONT DR

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HSCALE:

VSCALE: N/A

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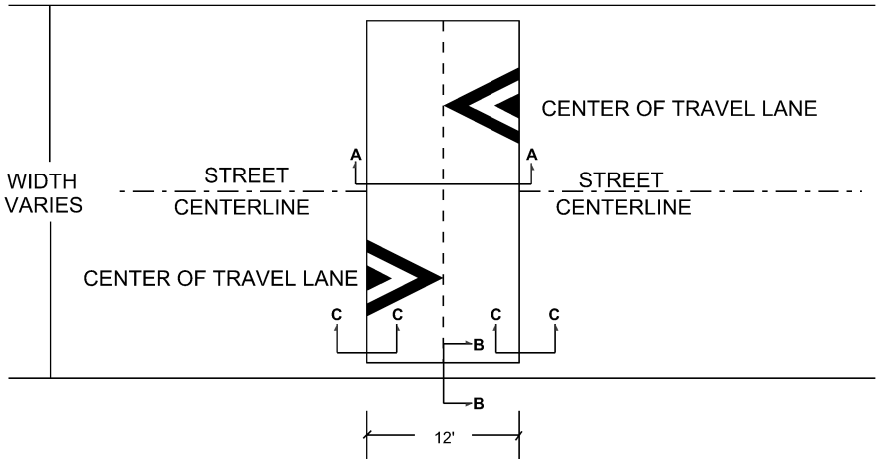
EAST ROWAN CALMING 4

SPEED HUMP DETAIL



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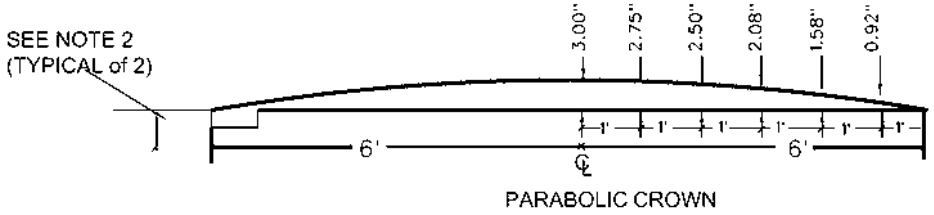

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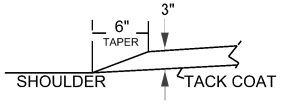
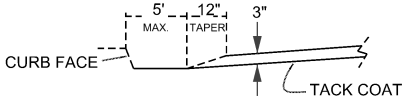
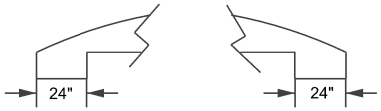


SHOULDER DETAIL FOR STREETS WITHOUT GUTTERS



GUTTER DETAIL FOR CURBED STREETS

SECTION C - C



FOOTING DETAIL

CITY OF RALEIGH
PUBLIC WORKS DEPARTMENT

DETAIL SHEET 1

TRAFFIC CALMING PROJECT

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HSCALE:
VSCALE: N/A
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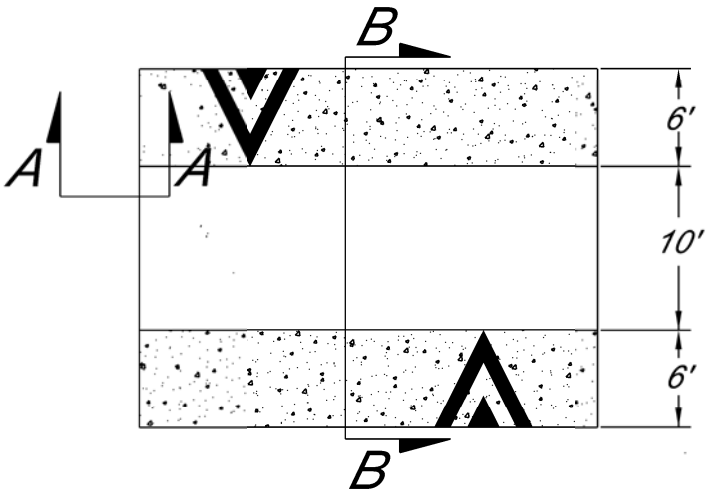
DETAIL SHEET 1

SPEED TABLE DETAIL



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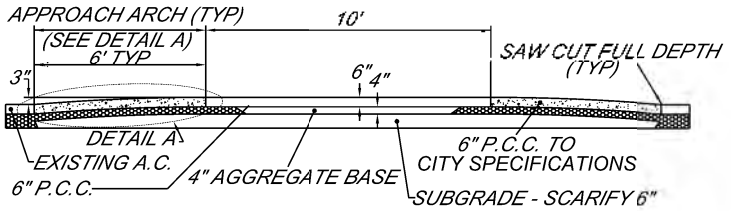

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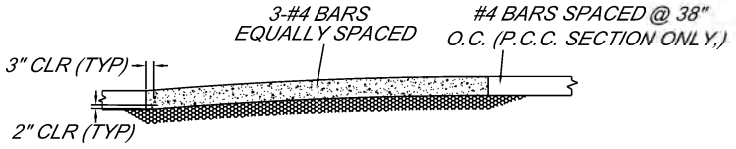

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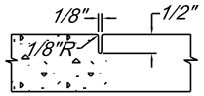

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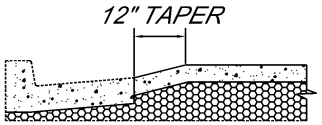
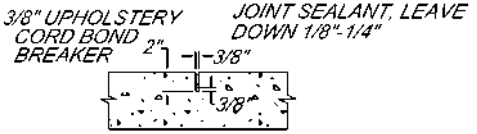


TAPER TO CONTINUE THROUGH APPROACH
ARC AND CONSTANT GRADE SECTIONS

DETAIL C



CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

DETAIL SHEET 2

TRAFFIC CALMING PROJECT

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HSCALE:

VSCALE: N/A

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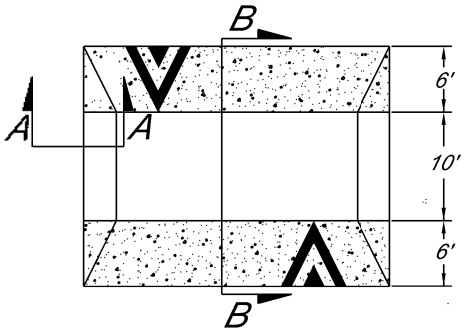
DETAIL SHEET 2

RAISED CROSSWALK DETAIL



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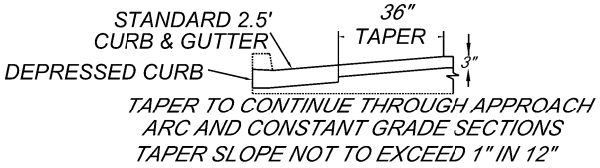

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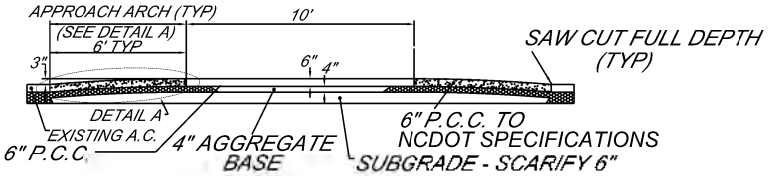
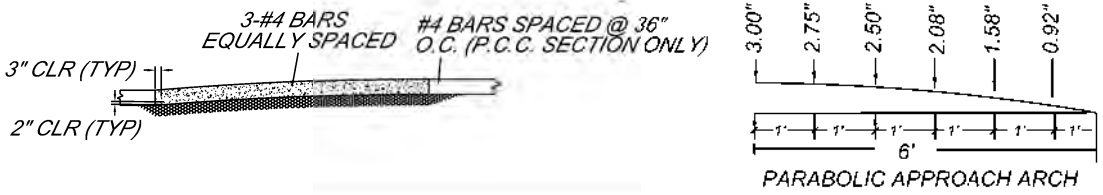


DETAIL A



CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

DETAIL SHEET 3

TRAFFIC CALMING PROJECT

2011 MINOR PROJECTS

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
PROJECT	2011 MINOR PROJECTS
SHEET NO.	SHEET 41 of 44
DRAWING NO.	DETAIL SHEET 3

SIGN AND STRIPING DETAILS

30" X 30"
WARNING
SIGN (W17-1)

18" x 18"
W13-1-25p

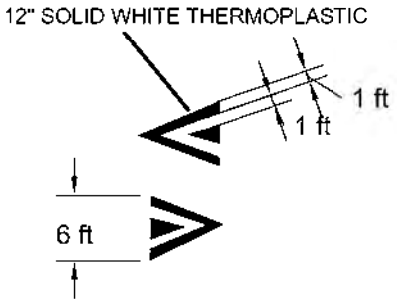
6'0" MIN.

36" X 36"
SCHOOL AREA
SIGN (S1-1)

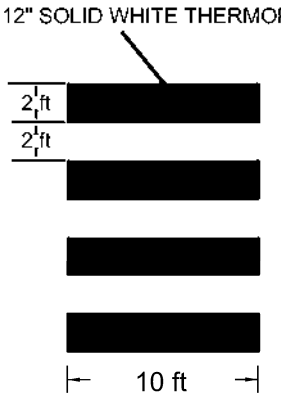
24" x 12"
W16-7p

6'0" MIN.

APPROACH ARCH STRIPING



CROSSWALK STRIPING



CITY OF RALEIGH
PUBLIC WORKS DEPARTMENT

DETAIL SHEET 4

TRAFFIC CALMING PROJECT

2011 MINOR PROJECTS

DATE:	
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REVISIONS	
NO.	DATE
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HSCALE:	
VSCALE: N/A	
PROJECT	
2011 MINOR PROJECTS	
SHEET NO.	
SHEET 42 of 44	
DRAWING NO.	
DETAIL SHEET 4	

General Notes:

1. All Work To Be Done In Accordance With NCDOT and City of Raleigh Standard Specifications.
2. Property and Right-of-Way is from GIS information and not Actual Survey
3. All Traffic-Calming Treatments to be Marked in Field by City of Raleigh Staff Prior to Installation.
4. Treatments May Require Advance Striping Based on Roadway Geometry.

Speed Hump Notes:

1. All Speed Humps to be Installed Per Speed Hump Detail Shown on Detail Sheet 1.
2. Asphaltic Concrete Shall Be NCDOT 1/2" Dense Mix.
3. Grind Minimum 24" Wide By 1" Deep Keyway In Existing AC Aligned with Leading Edges of Speed Hump.

Speed Table Notes:

1. All Speed Tables to be Installed Per Speed Table Detail Shown on Detail Sheet 2.
2. Portland Cement Concrete (P.C.C.) Shall Have the Following Characteristics: at Least 526 lb of Cement Per Cubic Yard, a Maximum Water/Cement Ratio of 0.559, Air Content In the Range of 4.5% to 5.5%, a Maximum Slump of 1.5", a Minimum Flexural Strength of 650 psi at 28 Days and a Minimum Compressive Strength of 4,500 psi at 28 Days.
3. Base Shall Be Engineered Type 2, Class B Aggregate, Compacted to 95%, with 6" Subgrade, Compacted to 90%.
4. Maximum Tolerance on Height of Speed Table To Be Plus or Minus 1/4". Speed Tables Out of Tolerence Must Be Removed and Replaced as Required By the Senior Transportation Engineer.
5. Tooled Longitudinal Weakened Plane Joints To Be Placed 10' On Center in P.C.C. Sections Beginning At Centerline. (See Detail B Under Speed Table Details, Detail Sheet 2)
6. Sawed or Premolded Strip Joints (Type C) To Be Placed In Transverse Direction Between Approach Arc Sections and the Constant Grade Sections When P.C.C. Is Used In Center Section. (See Detail C Under Speed Table Details, Detail Sheet 2)

CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

NOTES SHEET 1

TRAFFIC CALMING PROJECT

2011 MINOR PROJECTS

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NO.	DATE

SCALES

HSCALE:

VSCALE: N/A

PROJECT
2011 MINOR PROJECTS

SHEET NO.
SHEET 43 of 44

DRAWING NO.
NOTES SHEET 1

Raised Crosswalk Notes:

1. Raised Crosswalk to be Installed Per Speed Table Detail Shown on Detail Sheet 3.
2. All Speed Table Notes (Notes Sheet 1) Also Pertain To Raised Crosswalk.
3. Crosswalk Striping Installed Per Striping Detail 2, (Detail Sheet 4) and Striping Note 3. (Notes Sheet 2)

Sign Notes:

1. All Signs To Be Installed Per MUTCD Standards.
2. All Warning Signs To Be "Speed Hump" (W17-1) 30"x 30" Black on Yellow. (See Sign Detail, Detail Sheet 4)
3. All Advisory Speed Plaques To Be "25 MPH" (W13-1p), 18" x 18", Black on Yellow. (See Sign Detail, Detail Sheet 4)
4. All School Crossing Assemblies To Consist of a "School Area" Sign (S1-1), 36" x 36", Above a Diagonal Downward Pointing Arrow Plaque (W16-7p), 24" x 12", Black on Fluorescent Yellow-Green. (See Sign Detail, Detail Sheet 4)

Striping Notes:

1. All Speed Hump, Speed Table and Raised Crosswalk Chevrons To Be Installed Per Approach Arch Striping Detail 1 on Detail Sheet 4.
2. Crosswalk Striping To Be Installed Per Crosswalk Striping Detail 2 on Detail Sheet 4.
3. Edgeline Striping To Be 6" Solid White Thermoplastic.

CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

NOTES SHEET 2

TRAFFIC CALMING PROJECT

2011 MINOR PROJECTS

DATE:

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NO.	DATE

SCALES

HSCALE:

VSCALE: N/A

PROJECT
2011 MINOR PROJECTS

SHEET NO.
SHEET 44 of 44

DRAWING NO.
NOTES SHEET 2