



FRAME AND COVER -  
SOLID OR WATERTIGHT AS DIRECTED  
SEE NOTE 8

CONE SECTION  
SEE NOTE 7

STEPS AS  
SPECIFIED

SEE NOTE 5

FINISHED GRADE

NEW RISER SECTIONS - HEIGHT VARIES  
SEE NOTE 5

MIN 8" WIDE BUTYL  
RUBBER SEAL ON ALL  
BELOW-GRADE JOINTS

CONCRETE COLLAR ALL AROUND  
JOINT - SEE NOTE 6

REMOVE EXIST MH  
SEE NOTES 3 AND 4

EXISTING MANHOLE STEPS  
WHERE APPLICABLE

FILL INSIDE JOINT WITH  
NON-SHRINK GROUT  
SEE NOTE 6

INSTALL 2 PIECES BUTYL  
RUBBER UNDER RISER  
SECTION WHERE POSSIBLE -  
SEE NOTE 6

EXISTING MANHOLE WALL  
SEE NOTE 2

EXISTING BENCHING

MANHOLE DIAMETER VARIES -  
CONTRACTOR TO DETERMINE IN FIELD  
SEE NOTE 3

CHARLOTTE-MECKLENBURG UTILITIES  
CHARLOTTE, NORTH CAROLINA

REHABILITATION OF MANHOLE WALLS  
AND TOP SECTION (WITH CONE SECTION)  
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No.	Date	By	Revision

NTS			DETAIL NO.
Scale	Approved By		D

