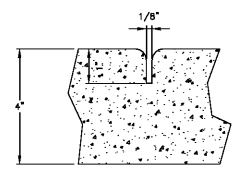


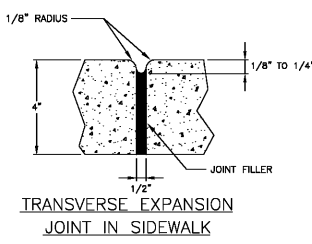
G:\NCA\Projects\Rock Properties\6191-01 - Firestone Garner, NC\03 - DWG\PlanSheets\C3-1 - SITE DETAILS.dwg Layout: Site Details Plotted: 10/31/2019 8:46:29 AM



GROOVE JOINT IN SIDEWALK

GENERAL NOTES:

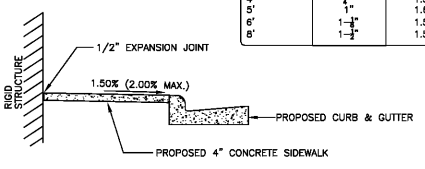
1. A GROOVE JOINT 1" DEEP WITH 1/8" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT INTERVALS OF NOT MORE THAN 45' AND MATCHING EXPANSION/CONSTRUCTION JOINT IN ADJACENT CURB. A SEALED 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
2. SIDEWALK AT DRIVEWAY ENTRANCES TO BE 6" THICK.
3. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3600 PSI IN 28 DAYS.
4. ZONING CONDITIONS MAY REQUIRE ADDITIONAL WIDTH SIDEWALKS WHICH SHALL SUPERSEDE THESE STANDARD DIMENSIONS SHOWN.
5. JOISTS FOR JUNCTION BOXES AND UTILITY VAULTS SHALL BE NON-SKID AS SPECIFIED BY ENGINEER.
6. JOINT MATERIALS SHALL LIMIT SHRINK/SWELL SO POST CONSTRUCTION INSTALLATION RESULTS IN A MAXIMUM OF 1/4" FROM FLUSH.



TRANSVERSE EXPANSION JOINT IN SIDEWALK

EXAMPLE SIDEWALK CONSTRUCTION DIMENSIONS:

WIDTH	RISE	CROSS-SLOPE
4'	1"	1.56%
5'	1"	1.67%
6'	1-1/4"	1.56%
8'	1-3/4"	1.56%



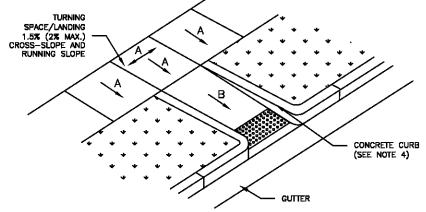
DETAILS SHOWING EXPANSION JOINTS IN CONCRETE SIDEWALK

NOT TO SCALE

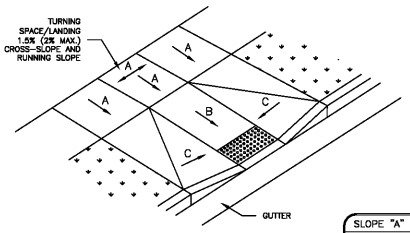
CONCRETE SIDEWALKS

NOTES:

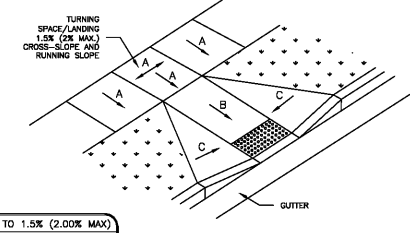
1. THIS DETAIL PRESENTS ALTERNATIVE TREATMENTS FOR THE SIDES OF THE RAMP - RETURNED CURBS, RECTANGULAR WINGS, AND ANGLED WINGS.
2. ENSURE FLUSH CONDITIONS AT CURB RAMP TO GUTTER TRANSITION.
3. TYPICALLY, THE SIDEWALK RUNNING SLOPE SHALL NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET.
4. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT TYPICALLY WALK ACROSS THE RAMP. THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE, OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.



RETURNED CURBS (SEE NOTE 4)



RECTANGULAR WINGS



ANGLED WINGS

SLOPE "A" = UP TO 1.5% (2.00% MAX)
SLOPE "B" = UP TO 7.5% (8.33% MAX)
SLOPE "C" = UP TO 10% MAX

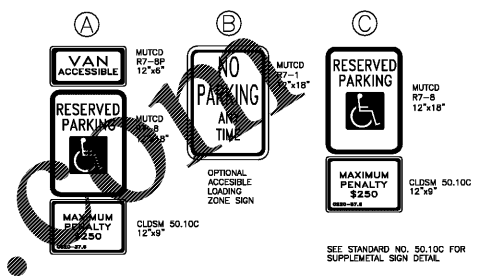
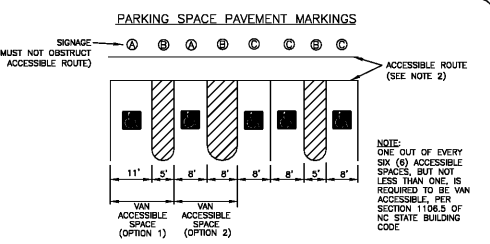
PERPENDICULAR CURB RAMP WITH 1'-6" CURB AND GUTTER

NOT TO SCALE

ACCESSIBLE PARKING REQUIREMENTS

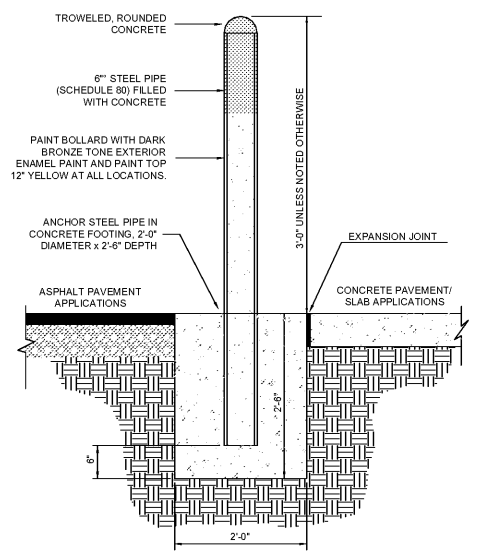
TOTAL PARKING SPACES PROVIDED	MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED	MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED TO BE VAN ACCESSIBLE
1 TO 25	1	1
26 TO 50	2	1
51 TO 75	3	1
76 TO 100	4	1
101 TO 150	5	1
151 TO 200	6	1
201 TO 300	7	2
301 TO 400	8	2
401 TO 500	9	2
501 TO 1000	2% OF TOTAL	1 IN EVERY 6 ACCESSIBLE SPACES
1001 AND OVER	2% PLUS 1 FOR EACH 100 OVER 1000	1 IN EVERY 6 ACCESSIBLE SPACES

- REFERENCE: SECTION 1106.5 OF NC BUILDING CODE
- NOTES:
1. ALL ACCESSIBLE SIGNS (R7-8P, R7-8, R7-1) SHALL BE MOUNTED AT 7 FEET FROM GRADE TO BOTTOM EDGE OF SIGN FACE (IF MOUNTED). MOUNTING HEIGHT CAN BE REDUCED TO 5 FEET IF PLACED IN AN AREA BETWEEN SIDEWALK AND FACE IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
 2. IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THEN RAMPS ARE REQUIRED AT LOADING ZONE AREA. MINIMUM MAX. 4" WIDE CONTINUOUS PASSAGE.
 3. VERTICAL CLEARANCE FOR VANS MUST BE GREATER THAN 88-INCHES.
 4. THIS DETAIL IS TO PROVIDE GENERAL GUIDANCE FOR PARKING LAYOUT DESIGN. REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT AND NC BUILDING CODE FOR ADDITIONAL INFORMATION.



ACCESSIBLE PARKING AND SIGNAGE STANDARDS

NOT TO SCALE

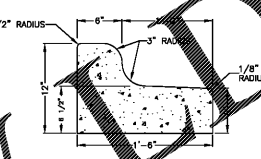


CONCRETE BOLLARD

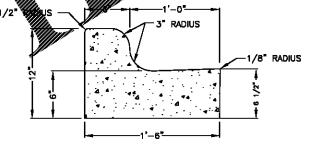
NOT TO SCALE

1'-6" MEDIAN CURB AND GUTTER

TO BE USED IN MEDIANS WHEN LANES ARE SLOPED FROM ISLAND OR AS SPECIFIED BY THE APPROPRIATE CITY ENGINEERING DEPT.



NOT TO SCALE

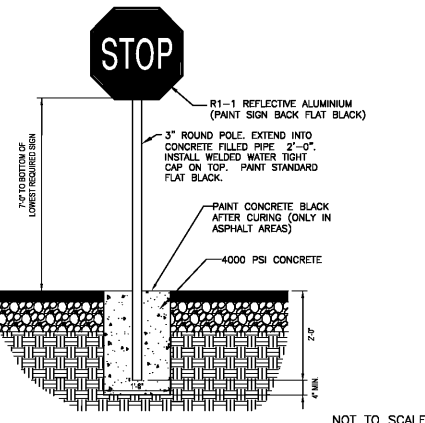


1'-6" STD. CURB AND GUTTER

NOT TO SCALE

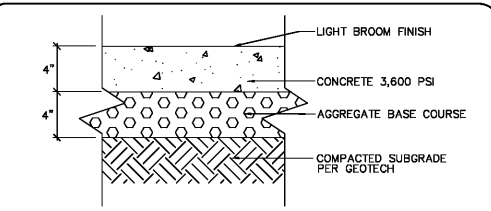
SPILL CURB AND GUTTER

NOT TO SCALE



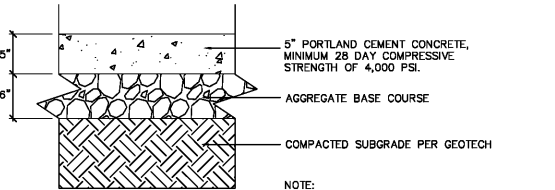
STOP SIGN DETAIL

NOT TO SCALE



LIGHT DUTY CONCRETE SIDEWALKS

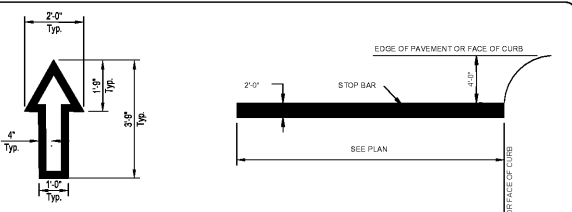
NOT TO SCALE



HEAVY DUTY CONCRETE PAVEMENT

NOT TO SCALE

- NOTES:
1. CONCRETE SHALL CONFORM TO THE REQUIREMENTS FOR REINFORCED CONCRETE PAVEMENT IN ACI MANUAL OF CONCRETE PRACTICE.
 2. CONCRETE SHALL HAVE A MINIMUM 28 DAY FLEXURAL STRENGTH OF 550 PSI FOR ALL CONCRETE PAVING.
 3. CONCRETE SHOULD BE AIR ENTRAINED A MINIMUM OF 6 ± 2 PERCENT FOR A ONE INCH MAXIMUM AGGREGATE SIZE.
 4. THE SUBGRADE SOILS SHALL BE PROOF-ROLLED TO DETERMINE SOFT AREAS THAT NEED TO BE UNDERCUT. THEN IT SHALL BE COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
 5. A MAXIMUM CONTROL JOINT SPACING OF 15 FEET IS REQUIRED FOR CONCRETE PAVEMENT. SAW CUT CONTROL JOINTS SHOULD BE CUT WITHIN 6 TO 12 HOURS OF CONCRETE PLACEMENT.



PAVEMENT MARKINGS

NOT TO SCALE

1. WORDS AND ARROWS FOR DRIVEWAYS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 98 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYWAY.
2. THESE WORDS AND BAR ARE TO BE PAINTED REFLECTIVE WHITE.

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DESIGNED BY: DMH	REVIEWED BY: ECH	DATE: 10/22/19	REVISED PER STAFF COMMENTS	DESCRIPTION
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GARNER, JOHNSTON COUNTY, NC 27539 A.C. HIGHWAY 42				
SITE DETAILS				
FILE NUMBER: 6191-01				
DATE: 07/24/19				
C2-1				