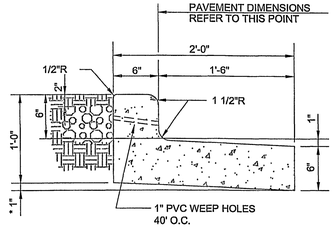
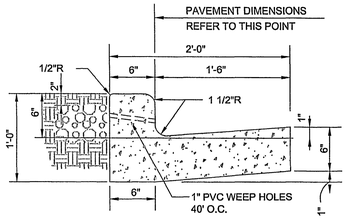


A SPILLING CURB AND GUTTER



B CATCHING CURB AND GUTTER

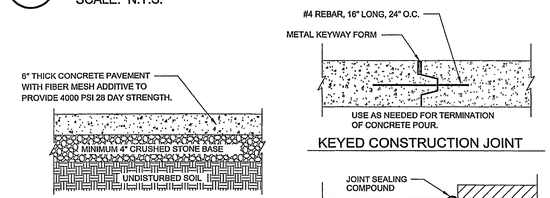
CONCRETE FOR CURBING SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

CONSTRUCTION STAKING FOR CURBING INSTALLATION SHALL BE REFERENCED (CUT OR FILL) TO THE TOP OF BACK OF CURB.

* AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE.

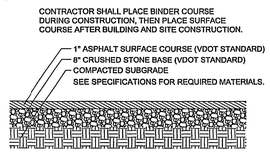
1 CONCRETE CURB&GUTTER DETAIL

SCALE: N.T.S.

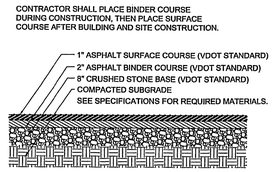


2 ASPHALT PAVING DETAIL

SCALE: N.T.S.

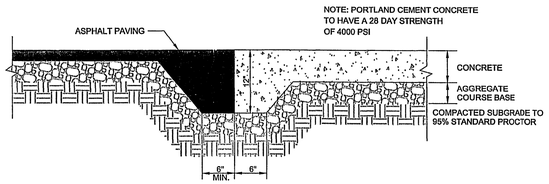


ASPHALT PARKING STALL PAVEMENT DETAIL



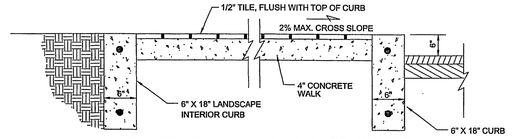
ASPHALT HEAVY DUTY DRIVE AISLE PAVEMENT DETAIL

*COORDINATE w/ McDONALDS PROJECT MANAGER FOR AREAS TO RECIEVE HEAVY DUTY ASPHALT PAVING-TYPICAL.



4 ASPHALT TO CONCRETE TRANSITION DETAIL

SCALE: N.T.S.



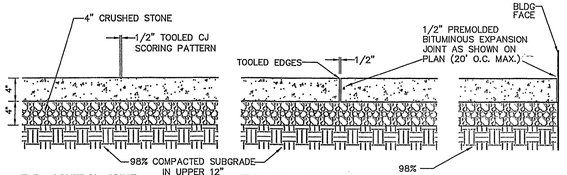
COORDINATE WITH McDONALDS PROJECT MANAGER FOR QUARRY TILE PATTERN AND COLOR-TYPICAL.

5 ABRASIVE QUARRY TILE WALK DETAIL

SCALE: N.T.S.

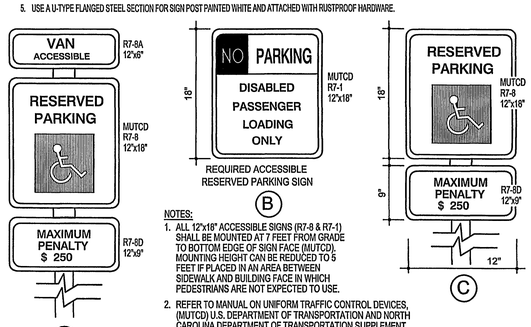
3 CONCRETE PAVEMENT DETAIL

SCALE: N.T.S.



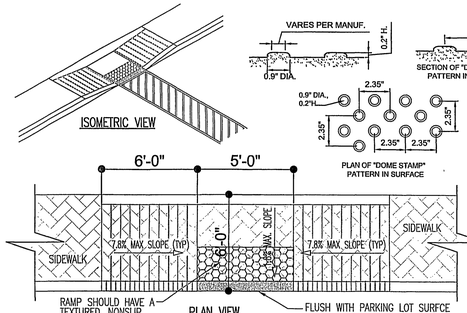
SIGNAGE NOTES:

1. SIGN : R7-8 (WITH ARROW) METAL LEGEND / BORDER-GREEN; WHITE SYMBOL ON BLUE BACKGROUND; BACKGROUND-WHITE. SIGN TO MEET LOCAL STANDARDS.
2. VAN ACCESSIBLE SIGN BELOW (METAL) 3/8" WHITE BORDER WITH 3/8" GREEN BORDER; LEGEND IN GREEN; BACKGROUND WHITE. SIGN TO MEET LOCAL STANDARDS.
3. PENALTY SIGN BELOW (METAL) 3/8" WHITE BORDER; BACKGROUND-BLUE; LEGEND IN WHITE. SIGN TO MEET LOCAL STANDARDS.
4. PLACE SIGN ON POST WITH 7.0' MIN. CLEARANCE FROM BOTTOM OF SIGN TO FINISHED GRADE. POST MUST BE SET IN CONCRETE DIRECTLY BEHIND BACK OF CURB.
5. USE A U-TYPE FLANGED STEEL SECTION FOR SIGN POST PAINTED WHITE AND ATTACHED WITH RUSTPROOF HARDWARE.



NOTES:

1. ALL 12"x18" ACCESSIBLE SIGNS (R7-8 & R7-1) SHALL BE MOUNTED AT 7 FEET FROM GRADE TO BOTTOM EDGE OF SIGN FACE (MUTCD). MOUNTING HEIGHT CAN BE REDUCED TO 5 FEET IF PLACED IN AN AREA BETWEEN SIDEWALK AND BUILDING FACE IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
2. REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD) U.S. DEPARTMENT OF TRANSPORTATION AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT.
3. IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THEN RAMPS ARE REQUIRED AT LOADING ZONE AREA.

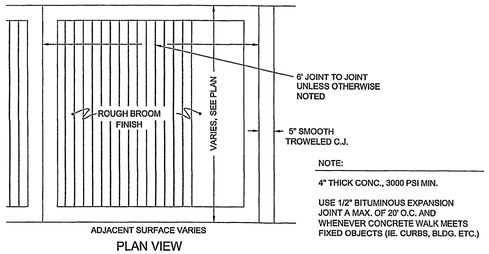


NOTE:
CURB RAMPS MUST HAVE A DETECTABLE WARNING FEATURE EXTENDING THE FULL WIDTH AND DEPTH OF THE RAMP. THE DETECTABLE SURFACE MUST CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER-TO CENTER SPACING OF NOMINAL 2.35 INCHES. THE TEXTURE OF THE DETECTABLE WARNING FEATURE MUST CONTRAST WITH THE SURROUNDING SURFACES (EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT). SEE ABOVE.

LOCAL JURISDICTION
THERE ARE LOCAL JURISDICTIONS THAT SPECIFICALLY REQUIRE DETECTIBLE WARNINGS ON THE SIDE FLARES. THERE ARE LOCAL JURISDICTIONS THAT HAVE REDEFINED DETECTIBLE WARNINGS (e.g. EXPOSED CONTRASTING COLOR AGGREGATE, GROOVES IN A PARALLEL OR DIAMOND PATTERN ETC.). ACCESSIBILITY GUIDLINES DEFINED BY LOCAL ORDINANCE SHOULD SUPERSEDE. IN THE ABSENCE OF A DEFINITION, THE ACCESSIBILITY GUIDELINES DEFINED BY LOCAL JURISDICTION SHALL BE FOLLOWED.

8 WASHDOWN CURB FOR HANDICAP RAMP TYPE 1

SCALE: N.T.S.

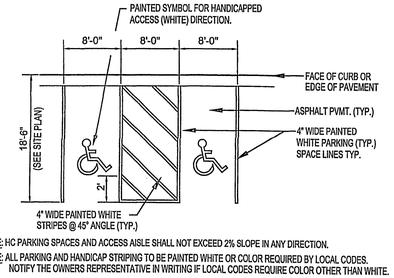


NOTE:
4" THICK CONC., 3000 PSI MIN.

USE 1/2" BITUMINOUS EXPANSION JOINT A MAX. OF 20' O.C. AND WHENEVER CONCRETE WALK MEETS FIXED OBJECTS (IE. CURBS, BLDG. ETC.)

6 CONCRETE SIDEWALK DETAIL

SCALE: N.T.S.

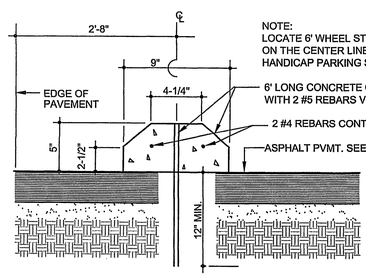


NOTE: HC PARKING SPACES AND ACCESS AISLE SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.

NOTE: ALL PARKING AND HANDICAP STRIPING TO BE PAINTED WHITE OR COLOR REQUIRED BY LOCAL CODES. NOTIFY THE OWNERS REPRESENTATIVE IN WRITING IF LOCAL CODES REQUIRE COLOR OTHER THAN WHITE.

9 MULTIPLE HANDICAP SPACES

SCALE: N.T.S.

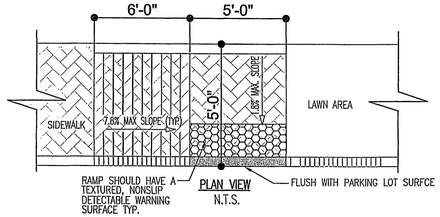


10 CONCRETE WHEEL STOP

SCALE: N.T.S.

NOTE:
CURB RAMPS MUST HAVE A DETECTABLE WARNING FEATURE EXTENDING THE FULL WIDTH AND DEPTH OF THE RAMP. THE DETECTABLE SURFACE MUST CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER-TO CENTER SPACING OF NOMINAL 2.35 INCHES. THE TEXTURE OF THE DETECTABLE WARNING FEATURE MUST CONTRAST WITH THE SURROUNDING SURFACES (EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT). SEE ABOVE.

LOCAL JURISDICTION
THERE ARE LOCAL JURISDICTIONS THAT SPECIFICALLY REQUIRE DETECTIBLE WARNINGS ON THE SIDE FLARES. THERE ARE LOCAL JURISDICTIONS THAT HAVE REDEFINED DETECTIBLE WARNINGS (e.g. EXPOSED CONTRASTING COLOR AGGREGATE, GROOVES IN A PARALLEL OR DIAMOND PATTERN ETC.). ACCESSIBILITY GUIDLINES DEFINED BY LOCAL ORDINANCE SHOULD SUPERSEDE. IN THE ABSENCE OF A DEFINITION, FOLLOW ADAAG.

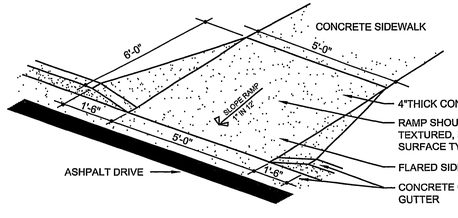


11 WASHDOWN CURB FOR HANDICAP RAMP TYPE 2

SCALE: N.T.S.

NOTE:
CURB RAMPS MUST HAVE A DETECTABLE WARNING FEATURE EXTENDING THE FULL WIDTH AND DEPTH OF THE RAMP. THE DETECTABLE SURFACE MUST CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER-TO CENTER SPACING OF NOMINAL 2.35 INCHES. THE TEXTURE OF THE DETECTABLE WARNING FEATURE MUST CONTRAST WITH THE SURROUNDING SURFACES (EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT). SEE ABOVE.

LOCAL JURISDICTION
THERE ARE LOCAL JURISDICTIONS THAT SPECIFICALLY REQUIRE DETECTIBLE WARNINGS ON THE SIDE FLARES. THERE ARE LOCAL JURISDICTIONS THAT HAVE REDEFINED DETECTIBLE WARNINGS (e.g. EXPOSED CONTRASTING COLOR AGGREGATE, GROOVES IN A PARALLEL OR DIAMOND PATTERN ETC.). ACCESSIBILITY GUIDLINES DEFINED BY LOCAL ORDINANCE SHOULD SUPERSEDE. IN THE ABSENCE OF A DEFINITION, FOLLOW ADAAG.



12 WASHDOWN CURB FOR HANDICAP RAMP TYPE 3

SCALE: N.T.S.

SAPA PROJECT # 05–092

SITE WORK

1. THE COST TO EXTEND UTILITIES TO THE CONNECTION POINT IS TO BE REFLECTED IN THE CONTRACT SUM. ANY REQUIREMENTS OTHER THAN IMPACT, TAP FEES PAID DIRECTLY TO THE PURVEYOR ARE THE GENERAL CONTRACTORS RESPONSIBILITY.
2. GENERAL CONTRACTOR TO PROVIDE 4" PVC SLEEVES TO FACILITATE IRRIGATION TO ALL LANDSCAPE AREAS. POWER AND CONDUIT TO EXTERIOR VICINITY OF IRRIGATION CONTROL VALVE BOX SHALL BE PROVIDED BY GENERAL CONTRACTOR. VERIFY LOCATION WITH PROJECT MANAGER.
3. GENERAL CONTRACTOR WILL BACKFILL AND GRADE ALL LANDSCAPE BEDS TO A COMPACTED MINUS 6" TOP OF FINISHED CURB. INJURE BEDS ARE FREE OF FOREIGN MATERIALS AND DEBRIS. CONTINUE TO FILL BEDS WITH TOP QUALITY SOIL TO 1" BELOW TOP OF CURB, FOR PROPOSED LANDSCAPE SOIL, SOD AND MULCH TO FINISH WITH CURB.
4. GENERAL CONTRACTOR TO ADHERE TO SOILS REPORT AS BASIS OF SITE WORK FOR ANY POOR SOILS REMOVAL AND REMEDIATION, UNDERCUTTING, OR ROCK REMOVAL. THE GRADING PRICE SHALL INCLUDE THE SITE TO THE PROPOSED ELEVATIONS AS INDICATED ON THE SITE PLAN. SHOULD ANY UNUSUAL PROBLEM AREAS BECOME EVIDENT, NOTIFY THE PROJECT MANAGER TO CONFIRM THESE AREAS. CHANGE ORDERS FOR ANY POOR SOIL REMOVAL AND REPLACEMENT (SOIL REMOVAL SHALL NOT EXCEED 7 % OF THE TOTAL COST IN PLACE OF LABOR AND MATERIAL. CONTRACTOR SHALL PROVIDE UNIT COST FOR UNFORESEEN POOR SOILS REMOVAL AND REPLACEMENT AS ALTERNATE.
5. PROVIDE ALL CONDUITS AND WIRING, SEPARATE CIRCUIT FOR MENU ORDER STATION AND DETECTOR UNIT. THE DETECTOR LOOP SHALL BE INSTALLED IN THE DRIVE THRU PRIOR TO POURING THE CONCRETE DRIVE-THRU LANE. COORDINATE LOCATION OF MENU ORDER STATION.
6. VERIFY THE TYPE, SIZE AND LOCATION OF TELEPHONE CONDUIT REQUIRED TO SERVICE FACILITY. MINIMUM SHALL BE 2".
7. GENERAL CONTRACTOR AND ASSOCIATED SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITY COMPANIES (GAS, ELECTRIC, WATER, SEWER, STORM DRAINAGE) TO INSURE TIMELY INSTALLATION.
8. ALL REQUIRED DEMOLITION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
9. REVIEW GREASE TRAP LOCATION WITH McDONALDS PROJECT MANAGER.
10. WATER SERVICE SHALL BE 2" MIN. FOR DOMESTIC USE AND 1" MIN. FOR IRRIGATION AND BE OF COPPER MATERIAL.
11. VERIFY GAS METER LOCATION PRIOR TO INSTALLATION.
12. GENERAL CONTRACTOR WILL VERIFY BUILDING LOCATION CERTIFIED BY REGISTERED SURVEYOR, (A SEALED AND SIGNED C-2 WILL SUFFICE) PRIOR TO INSTALLATION OF BUILDING FOUNDATION. A SEALED CERTIFIED C2 PLAN AND BUILDING PLAT IS REQUIRED PRIOR TO SUBMITTING FIRST PAYMENT REQUEST. AS-BUILT LOCATION OF BUILDING TO NOTE BUILDING SETBACKS AND VERIFICATION OF VERTICAL CONTROLS PROVIDED BY GENERAL CONTRACTOR.
13. GENERAL CONTRACTOR TO FURNISH A 4'x8' "HERE WE GROW AGAIN" SIGN. SIGN MAY BE USED ON FUTURE PROJECTS PROVIDING IT IS MAINTAINED IN GOOD REPAIR. THIS SIGN MUST BE POSTED WITHIN 10 CALENDAR DAYS OF PROJECT START. IF NOT, A $500.00 DEDUCT WILL BE TAKEN FROM THE CONTRACT AMOUNT. SIGNS CAN BE OBTAINED FROM THE McDONALDS PROJECT MANAGER.
14. MINIMUM ASPHALT PAVING CONSIST OF A 4" LAYER OF AGGREGATE ROCK BASE, 2" LAYER OF AGGREGATE ASPHALT (BINDER) CEMENT BASE PAVEMENT AND A FINAL 1" LAYER OF AGGREGATE ASPHALT CEMENT BASE (SMOOTH) FINISHED SURFACE. SOILS REPORT SHALL CONTROL IN MORE STRINGENT CASES. FINISH ROLLING SHALL CONTINUE UNTIL ALL ROLLER MARKS AND IMPERFECTIONS ARE ELIMINATED.
15. IN CASES WHERE CONCRETE PARKING LOTS ARE APPLIED, CONCRETE IS TO BE IN COMPLETE CONFORMANCE WITH McDONALD'S PLANS AND SPECIFICATIONS INCLUDING SOILS REPORT.
16. ALL SIDEWALKS AND CONCRETE PARKING LOTS INCLUDING DRIVE-THRU LANE SHALL CONSIST OF SCORE LINES / EXPANSION JOINTS AT NO GREATER THAN 6' FOR SIDEWALKS AND NO GREATER THAN 20' ON CENTER FOR CONCRETE PAVING LOTS AND DRIVE-THRU LANE. PROVIDE PRE-MOLDED EXPANSION JOINT FILLER, FINISH WITH RESIDUE FILLER FOR ALL SITE FLAT WORK.
17. ALL SIDEWALKS SHALL BE TILED WITH 6x6 CANYON RED ABRASIVE. CONTRACTOR TO BID MINIMUM 50 S.F AT EACH DOOR WITH REMAINING TYPOLOGIES BID ALTERNATES. INCLUDE TILE PRE-FRAMED / MOLDED EXPANSION FILLER DIRECTLY CENTERED OVER SIDEWALK EXPANSION JOINT.
18. COMPACTION OF BUILDING SUBSTRATUM AND ASPHALT AREAS TO BE VERIFIED IN WRITING AND PERFORMED BY A GEOTECHNICAL ENGINEER CONSULTANT. THE GENERAL CONTRACTOR SHALL COVER THE COST OF TESTING.
19. PARKING LOT SUBGRADE TO BE AT A MINIMUM OF 95% COMPACTION, GENERAL CONTRACTOR TO PROVIDE PROCTOR FOR PROPOSED FILL MATERIAL PRIOR TO COMMENCING CONSTRUCTION. EACH 2,500 S.F. OF FILL AT EVERY 1'-0" VERTICAL LIFTS SHALL BE VERIFIED FOR 95% COMPACTION.
20. GENERAL CONTRACTOR TO COORDINATE CONCRETE CYLINDER TEST FOR FOOTINGS, SLAB, AND ALL CONCRETE PARKING LOT PAVEMENT INCLUDING DRIVE-THRU LANE AND DUMPSTER PAD.
21. GENERAL CONTRACTOR TO PROVIDE (2) 1" CONDUITS FROM CASH WINDOW DRIVE-THRU (ABOVE CEILING) TO REAR PARKING LOT LIGHT POLE (RUN UP INSIDE POLE 14 A.F.F.) TO INCLUDE 110 EXTERIOR WEATHER PROOF GROUND FAULT BREAKER (OUTLET). PROVIDE REMAINING CONDUIT WITH 200# PULL STRING FOR FUTURE SECURITY CAMERA COAX CABLE.
22. ALL CONCRETE CURBING SHALL BE AS PER PLANS AND SPECIFICATIONS. PROVIDE 1" PVC WEEP HOLES AT EVERY 10'-0" O.C. (GRAVEL BEDDING BEHIND CURB) TO PREVENT TRAPPED WATER IN LANDSCAPE BEDS.
23. G.C. TO REVIEW EXISTING STREET IMPROVEMENTS, REPAIR / REPLACE AS REQUIRED BY LOCAL JURISDICTION.
24. INSULATION UNDER THE CONCRETE FLOOR AT COOLER / FREEZER AREA SHALL BE BID AS OPERATOR EXTRA ON THE BID DOCUMENT PROPOSAL KITCHEN EQUIPMENT LINE.

ALL LOT LIGHT WIRES TO BE CONTINUOUS RUN FROM PANELS TO THE LOT LIGHTS WITH NO SPLICES. (CHECK SPECS)

GENERAL NOTES

1. McDONALD'S ROAD SIGN AND BASE ARE BY THE SIGN CONTRACTOR. CONDUIT AND WIRING ARE BY THE G.C.
2. BASES, GALVANIZED ANCHOR BOLTS, CONDUIT, AND WIRING FOR ALL OTHER SIGNS ARE BY THE G.C.
3. 3/4" EMPTY CONDUIT TO LOCATIONS SHOWN AT THE LOT PERIMETER FOR LOT LIGHTING IS BY THE G.C. LIGHTING FIXTURES, BASES, POLES, CONDUIT, AND WIRING ARE BY THE GENERAL CONTRACTOR.
4. BASES FOR FLAGPOLES ARE BY THE GENERAL CONTRACTOR. ANCHOR BOLTS ARE BY THE FLAGPOLE SUPPLIER.
5. PROPOSED UTILITIES ARE SHOWN IN SCHEMATIC ONLY. EXACT LOCATIONS SHALL BE DETERMINED TO ALLOW FOR THE MOST ECONOMICAL INSTALLATION.
6. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXACT POINT OF SERVICE CONNECTION AT EXISTING UTILITY. REFER TO THE BUILDING ELECTRICAL AND PLUMBING DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES, AND CIRCUITING.
7. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE G.C. AT GROUNDBREAK.
8. FINISH WALK AND CURB ELEVATIONS SHALL BE 6" ABOVE FINISH PAVEMENT.
9. ALL LANDSCAPE AREAS SHALL BE ROUGH GRADED TO 6" BELOW TOP OF ALL WALKS AND CURBS. FINISH GRADING, LANDSCAPING, AND SPRINKLER SYSTEMS ARE BY THE OWNER/OPERATOR.
10. LOT LIGHTING CONCRETE FOOTINGS TO CONFORM WITH THE SOILS REPORT RECOMMENDATIONS FOR THIS PARTICULAR SITE.
11. REFER TO SHEETS C1 THRU C4 FOR ALL APPLICABLE SITE DETAILS.
12. PROVIDE WEEPHOLES ON CURBS AT ALL LANDSCAPE AREAS LOCATIONS. COORDINATE WITH McD'S PROJECT MANAGER.

PAVING SPECIFICATION

REFER TO PAVING DETAILS FOR PAVING SPECIFICATIONS

NOTE: GEN. CON. TO OVERLAY EX. ASPHALT AS NECESSARY

NOTE: McDONALD'S ENGINEER RESERVES THE RIGHT TO REQUEST A COMPACTION TEST AND/OR A CORE SAMPLE, IF TESTS PROVE CORRECT, PER ABOVE SPECIFICATION, TESTS WILL BE AT THE EXPENSE OF McDONALD'S, OTHERWISE, G.C. WILL BE CHARGED. NECESSARY

LOT LIGHTING RECOMMENDATION

SECURITY LIGHTING AS51000 WATT METAL HALIDE FIXTURE W/ 30 DEGREE TILT ON 22 FOOT POLE 2 FOOT CONCRETE BASE
AS8-4-MH-DB-MT WILMAR
GEN. CON. TO NOTE CORRECT LOCATION OF FIXTURES
NOTE: ALL LIGHTING SHALL BE GLARE SHIELDED AND NON-DIRECTIONAL TO PREVENT DIRECT ILLUMINATION BEYOND THE PROPERTY LINE.
NOTE: ELECTRICAL CONTRACTOR TO CIRCUIT LOT LIGHTING AS NOTED.

PARKING INFORMATION

TOTAL SPACES						
34	2–HC SPACES	8.0'	X	18.0'	@	60 °
	30 SPACES	9.0'	X	18.0'	@	60 °
	2 SPACES	9.0'	X	18.0'	@	90 °
	– SPACES	–'	X	–'	@	– °
	– SPACES	–'	X	–'	@	– °

UTILITY INFORMATION

	SIZE TYPE LOCATION
SANITARY SEWER	EXISTING SANITARY SEWER MANHOLE ON SITE IN WESTERN DRIVEWAY
WATER	EXISTING WATERLINE RUNNING FROM FRANKLIN ROAD INTO SITE NEAR EAST PROPERTY LINE
STORM SEWER	N/A
ELECTRIC	EX. OVERHEAD ALONG EAST PROPERTY LINE AND UNDERGROUND SERVICE ALONG EAST PROPERTY LINE
GAS	EXISTING GASLINE ALONG EAST PROPERTY LINE

SURVEY INFORMATION

PREPARED BY: *BOUNDARY AND TOPOGRAPHIC SURVEY BY:*
REGIONAL LAND SURVEYORS, INC.
8642 West Market Street Suite 100
Greensboro, North Carolina 27409
TEL.#: (336) 665-8155

PLAN SCALE: AS NOTED

STREET ADDRESS
2801 FRANKLIN ROAD S.W.

CITY	STATE
ROANOKE	VIRGINIA

COUNTY
ROANOKE

REGIONAL DWG. NO	LOCATION CODE NUMBER
WVWA ID# 6H9XB	045-0076

REV	DATE	DESCRIPTION	BY
1	09/21/05	PERMIT REVIEW COMMENTS	JAL
			ISSUED

Stimmel

Stimmel Associates, PA
Landscape Architecture
Civil Engineering
Land Planning

601 N. Trade Street Suite 200
Winston Salem, NC 27101-2916
P: 336.723.1067 F: 336.723.1069

COMMONWEALTH OF VIRGINIA
9.21.05
DOUGLAS W. STIMMEL
No.548
REGISTERED LANDSCAPE ARCHITECT

McDonald's

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF McDONALD'S CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

RALEIGH REGION
3000 BEECHLEAF COURT – SUITE 300 – RALEIGH, N.C. 27604

OFFICE ADDRESS

PLAN APPROVAL

SIGNATURE (2 REQUIRED)	DATE
REGIONAL MGR.	
CONST. MGR.	
OPERATIONS DEPT.	
REAL ESTATE DEPT.	
CO-SIGN SIGNATURES	
CONTRACTOR	
OWNER	

STATUS	DATE	BY
FINAL	08/11/05	DGS
PLAN CHECKED	-	JAL
AS-BUILT	-	-

C5.1
SITE DETAILS