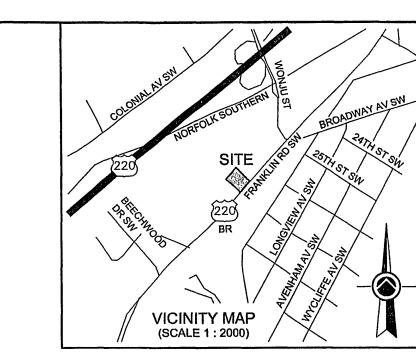
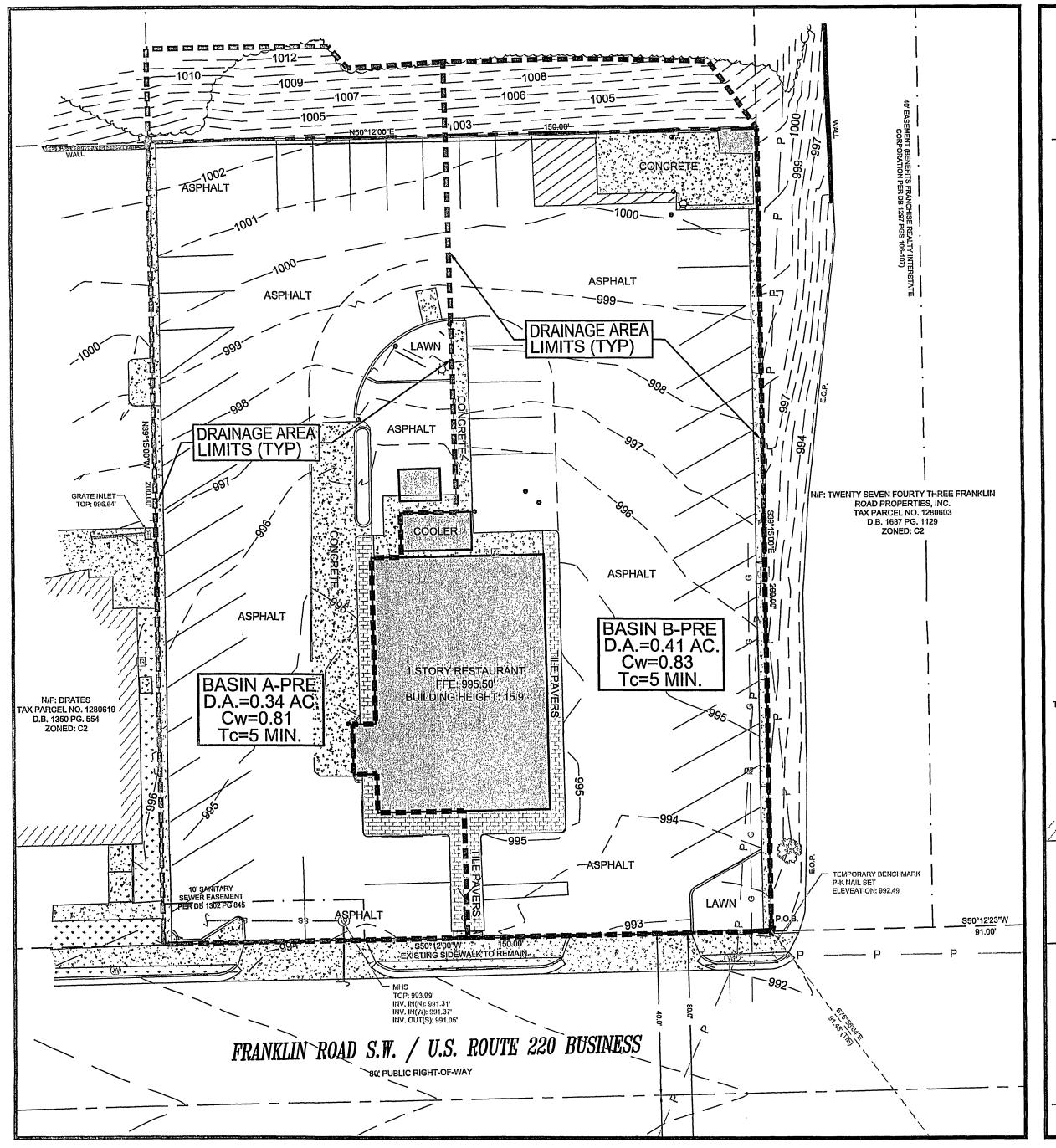
*EXISTING IMPERVIOUS CALCULATIONS: **BUILDING:** 0.069 ac. PAVEMENT: 0.609 ac. 88.4 % **OPEN SPACE:** 0.011 ac. 1.6 % 0.689 ac. TOTAL IMPERVIOUS: 0.678 ac. - 98.4%

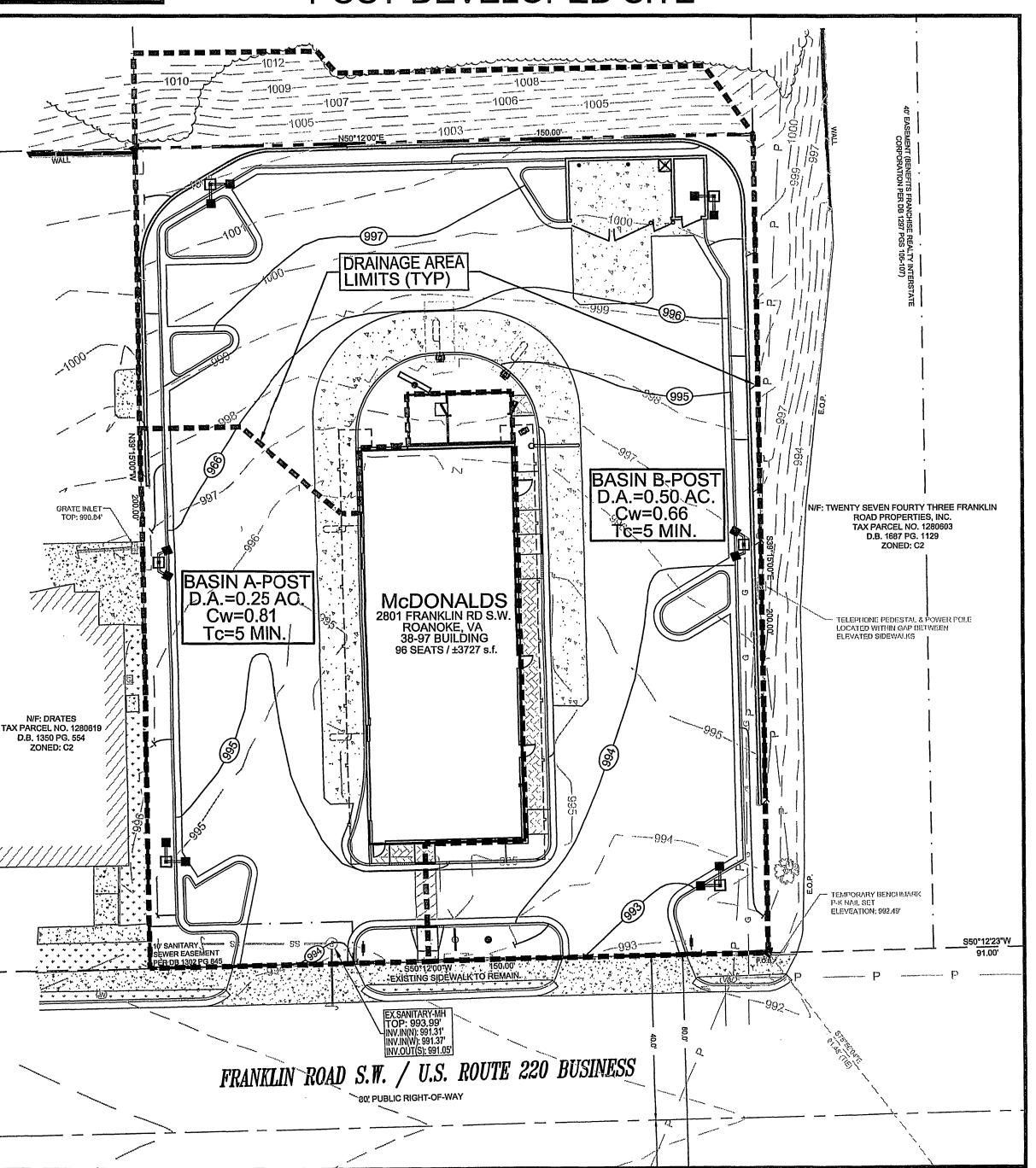
*PROPOSED IMPERVIOUS CALCULATIONS: 0.094 ac. **BUILDING:**

PAVEMENT: 0.473 ac. 68.7 % **OPEN SPACE:** 0.122 ac. 17.7 % 0.689 ac. TOTAL: 100% TOTAL IMPERVIOUS: 0.567 ac. - 82.3%

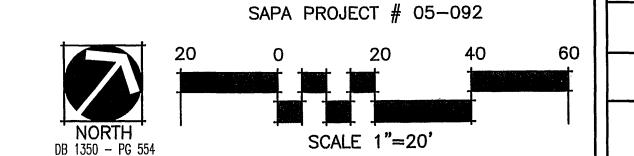


POST-DEVELOPED SITE PRE-DEVELOPED SITE





STORMWATER QUANTITY CONTROL CALCULATIONS: PRE-DEVELOPMENT POST DEVELOPMENT OVERALL SITE VIRGINIA STORMWATER MANAGEMENT BASIN A: BASIN A: HANDBOOK CHAPTER 4 PRE-DEVELOPMENT Cw=((0.67X0.90)+(0.08X0.16))/0.75=0.82 DRAINAGE AREA: 0.34 AC. DRAINAGE AREA: 0.25 AC. PAVED AREA: 0.30 AC. PAVED AREA: 0.22 AC. METHOD USED RATIONAL METHOD Q2=0.82X5.50X0.75 = 3.38 CFS OPEN SPACE: 0.04 AC. OPEN SPACE: 0.03 AC. Q10=0.82X8.10X0.75 = 4.98 CFS Cw=((0.30X0.90)+(0.04X0.16))/0.34=0.81 Cw=((0.22X0.90)+(0.03X0.16))/0.25=0.81 Q2=0.81X5.50X0.34 = 1.52 CFS Q2=0.81X5.50X0.25 = 1.11 CFS POST-DEVELOPMENT Cw=((0.56X0.90)+(0.19X0.16))/0.75=0.71 <u>DATA USED IN CALCULATIONS</u> RATIONAL C VALUE FOR PAVED AREAS: 0.90 Q10=0.81X8.10X0.34 = 2.23 CFS Q10=0.81X8.10X0.25 = 1.64 CFS Q2=0.71X5.50X0.75 = 2.93 CFS Q10=0.71X8.10X0.75 = 4.31 CFS BASIN B: BASIN B: RATIONAL C VALUE FOR OPEN SPACE: 0.16 DRAINAGE AREA: 0.41 AC. DRAINAGE AREA: 0.50 AC. RESULTS OVERALL SITE POST-DEVELOPMENT RUNOFF RATES ARE PAVED AREA: 0.37 AC. PAVED AREA: 0.34 AC. TIME OF CONCENTRATION (Tc): 5 MIN. OPEN SPACE: 0.04 AC. OPEN SPACE: 0.16 AC. LESS THAN PRE-DEVELOPMENT RUNOFF RATES. THEREFORE, Cw=((0.34X0.90)+(0.16X0.16))/0.50=0.66 Cw=((0.37X0.90)+(0.04X0.16))/0.41=0.83 2 YEAR STORM INTENSITY: 5.5 IN/HR STORMWATER DETENTION SHOULD NOT BE REQUIRED AND Q2=0.83X5.50X0.41 = 1.87 CFS Q2=0.66X5.50X0.50 = 1.82 CFS ADEQUATE DOWNSTREAM CHANNEL ACHIEVED BY IMPROVING Q10=0.66X8.1X0.50 = 2.67 CFS Q10=0.83X8.1X0.41 = 2.76 CFS 10 YEAR STORM INTENSITY: 8.1 IN/HR THE EXISTING RUN-OFF SITUATION.



	SITE WORK	ISSUE/REF							}	
ANY REQUIREMENTS (GENERAL CONTRACT)			الِد	_	-		$\left \cdot \right $		-	_
POWER AND CONDUIT GENERAL CONTRACTO	R TO PROVIDE 4" PVC SLEEVES TO FACILITATE IRRIGATION TO ALL LANDSCAPE AREAS. I TO EXTERIOR VICINITY OF IRRIGATION CONTROL VALVE BOX SHALL BE PROVIDED BY DR. VERIFY LOCATION WITH PROJECT MANAGER. R WILL BACKFILL AND GRADE ALL LANDSCAPE BEDS TO A COMPACTED MINUS 4"	BY	JAL		-	_				_
TOP OF FINISHED CUF FILL BEDS WITH TOP O AND MULCH TO FINISH	RB, INSURE BEDS ARE FREE OF FOREIGN MATERIALS AND DEBRIS. CONTINUE TO QUALITY SOIL TO 1" BELOW TOP OF CURB, FOR PROPOSED LANDSCAPE SOIL, SOD I FLUSH WITH CURB.									
4. GENERAL CONTRACTO REMOVAL AND REMED THE SITE TO THE PRO	R TO ADHERE TO SOILS REPORT AS BASIS OF SITE WORK FOR ANY POOR SOILS DIATION, UNDERCUTTING, OR ROCK REMOVAL. THE GRADING PRICE SHALL INCLUDE, POSED ELEVATIONS AS INDICATED ON THE SITE PLAN. SHOULD ANY UNUSUAL		COMMENTS							
ORDERS FOR ANY PO THE TOTAL COST IN P	OME EVIDENT, NOTIFY THE PROJECT MANAGER TO CONFIRM THESE AREAS. CHANGE OR SOIL REMOVAL AND REPLACEMENT (SOIL REMEDIAL), SHALL NOT EXCEED 7 % OF LACE OF LABOR AND MATERIAL. CONTRACTOR SHALL PROVIDE UNIT COST FOR SOILS REMOVAL AND REPLACEMENT AS ALTERNATE.	NO NO	COMIN							
5. PROVIDE ALL CONDUIT THE DETECTOR LOOP	SOILS REMOVAL AND REPLACEMENT AS A LITERVALE. S AND WIRING, SEPARATE CIRCUIT FOR MENU ORDER STATION AND DETECTOR UNIT. SHALL BE INSTALLED IN THE DRIVE THRU PRIOR TO POURING THE CONCRETE OORDINATE LOCATION OF MENU-ORDER STATION.	DESCRIPTION	REVIEW (
6. VERIFY THE TYPE, SIZE AI 7. GENERAL CONTRACTO	ND LOCATION OF TELEPHONE CONDUIT REQUIRED TO SERVICE FACILITY. MINIMUM SHALL BE 2'. R AND ASSOCIATED SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING WITH	DES								
ALL UTILITY COMPANI 8. ALL REQUIRED DEMOLI	ES (GAS, ELECTRIC, WATER, SEWER, STORM DRAINAGE) TO INSURE TIMELY INSTALLATION. TION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.		PERMIT							
10. WATER SERVICE SHALL E	LOCATION WITH McDONALDS PROJECT MANAGER. BE 2° MIN. FOR DOMESTIC USE AND 1° MIN. FOR IRRIGATION AND BE OF COPPER MATERIAL. DCATION PRIOR TO INSTALLATION.		<u>.</u>							
AND SIGNED C-2 WIL C-2 PLAN AND BUILD	OR WILL VERIFY BUILDING LOCATION CERTIFIED BY REGISTERED SURVEYOR. (A SEALED LI SUFFICE) PRIOR TO INSTALLATION OF BUILDING FOUNDATION, A SEALED CERTIFIED ING PLAT IS REQUIRED PRIOR TO SUBMITTING FIRST PAYMENT REQUEST. AS-BUILT	l i	/05							
LOCATION OF BUILD BY GENERAL CONTR 13. GENERAL CONTRACTO	ING TO NOTE BUILDING SETBACKS AND VERIFICATION OF VERTICAL CONTROLS PROVIDED NACTOR. OR TO FURNISH A 4'x8' "HERE WE GROW AGAIN" SIGN. SIGN MAY BE USED ON FUTURE	DATE	09/21/05							
PROJECTS PROVIDIN DAYS OF PROJECT S SIGNS CAN BE OBTA	IG IT IS MAINTAINED IN GOOD REPAIR. THIS SIGN MUST BE POSTED WITHIN 10 CALENDAR TART. IF NOT, A \$500.00 DEDUCT WILL BE TAKEN FROM THE CONTRACT AMOUNT. INED FROM THE McDONALDS PROJECT MANAGER.	REV	-							
AGGREGATE ASPHA CEMENT BASE (SMO	VING CONSIST OF A 6" LAYER OF AGGREGATE ROCK BASE, 2" LAYER OF LT (BINDER) CEMENT BASE PAVEMENT AND A FINAL 1" LAYER OF AGGREGATE ASPHALT OTH) FINISHED SURFACE. SOILS REPORT SHALL CONTROL IN MORE STRINGENT CASES. LL CONTINUE UNTIL ALL ROLLER MARKS AND IMPERFECTIONS ARE ELIMINATED.			ðti) [] ⁷	M			
15. IN CASES WHERE CON CONFORMANCE WITH	ICRETE PARKING LOTS ARE APPLIED, CONCRETE IS TO BE IN COMPLETE H MCDONALD'S PLANS AND SPECIFICATIONS INCLUDING SOILS REPORT. CONCRETE PARKING LOTS INCLUDING DRIVE-THRU LANE SHALL CONSIST OF								l A	And the second second second
SCORE LINES / EXPA	CONCRETE PARKING LOTS INCLUDING DRIVE-THRO LANE SHALL CONSIST OF NSION JOINTS AT NO GREATER THAN 8' FOR SIDEWALKS AND NO GREATER THAN CONCRETE PARKING LOTS AND DRIVE-THRU LANE. PROVIDE PRE-MOLDED LLER, FINISH WITH RESIDUE FILLER FOR ALL SITE FLAT WORK.				P	gal A				
17. ALL SIDEWALKS SHAL 50 S.F.AT EACH DOO	L BE TILED WITH 6x6 CANYON RED ABRASIVE. CONTRACTOR TO BID MINIMUM R WITH REMAINING THROUGHOUT AS BID ALTERNATE. INCLUDE TILE DED EXPANSION FILLER DIRECTLY CENTERED OVER SIDEWALK EXPANSION JOINT.		V						7	
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				mme dscape				s, P	A	
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				l Engin d Plan	eering					
CONCRETE PARKING 21. GENERAL CONTRACT CEILING) TO REAR F		Wins	N. Trad ston Sa 36.723.	lem, No	27	7101-2	2916	ı		
EXTERIOR WEATHE 200# PULL STRING F	PARKING LOT LIGHT POLE (RUN UP INSIDE POLE 14" A.F.F.) TO INCLUDE 110 R PROOF GROUND FAULT BREAKER (OUTLET), PROVIDE REMAINING CONDUIT WITH FOR FUTURE SECURITY CAMERA COAX CABLE, RING SHALL BE AS PER PLANS AND SPECIFICATIONS. PROVIDE 1" PVC WEEP HOLES AT				-		. 44			
EVERY 10'-0" O.C. (G 23. G.C. TO REVIEW EXIS	RAVEL BEDDING BEHIND CURB) TO PREVENT TRAPPED WATER IN LANDSCAPE BEDS. TING STREET IMPROVEMENTS, REPAIR / REPLACE AS REQUIRED BY LOCAL JURISDICTION.									
OPERATOR EXTRA	THE CONCRETE FLOOR AT COOLER / FREEZER AREA SHALL BE BID AS ON THE BID DOCUMENT PROPOSAL KITCHEN EQUIPMENT LINE. FIRES TO BE CONTINUOUS RUN FROM PANELS TO THE LOT LIGHTS				,0000	0 00	مون	_		
	S. (CHECK SPECS)			Party.	ALT	H O	FV		, 37	
	GENERAL NOTES I AND BASE ARE BY THE SIGN CONTRACTOR. CONDUIT AND WIRING ARE BY THE G.C.	-	Part of C	DOU	1.2	. 0	5	THE STATE OF	3	
. 3/4" EMPTY CONDUIT TO LIGHTING FIXTURES, E	CHOR BOLTS, CONDUIT, AND WIRING FOR ALL OTHER SIGNS ARE BY THE G.C. LOCATIONS SHOWN AT THE LOT PERIMETER FOR LOT LIGHTING IS BY THE G.C. IASES, POLES, CONDUIT, AND WIRING ARE BY THE GENERAL CONTRACTOR.		\$000 P	DOU	GLAS No	W. S .548		ich E		
. PROPOSED UTILITIES AF	ARE BY THE GENERAL CONTRACTOR. ANCHOR BOLTS ARE BY THE FLAGPOLE SUPPLIER. RE SHOWN IN SCHEMATIC ONLY. EXACT LOCATIONS SHALL BE DETERMINED TO ALLOW OMICAL INSTALLATION.		100	TAN OF THE PROPERTY OF THE PRO	A. (N			EF.	
. THE CONTRACTOR SHALL CONNECTION AT EXIS	OMICAL INSTALLATION. LL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXACT POINT OF SERVICE STING UTILITY, REFER TO THE BUILDING ELECTRICAL AND PLUMBING DRAWINGS FOR RANCE LOCATIONS, SIZES, AND CIRCUITING.		d-		Poss	1000 1000	A LO	A Liles		EXTEN)
. ALL ELEVATIONS SHOWN . . FINISH WALK AND CURB	ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE G.C. AT GROUNDBREAK. ELEVATIONS SHALL BE 6' ABOVE FINISH PAVEMENT. SHALL BE ROUGH GRADED TO 6' BELOW TOP OF ALL WALKS AND CURBS. FINISH			₹						
GRADING, LANDSCAP	SHALL BE ROUGH GRADED TO 6" BELOW TOP OF ALL WALKS AND CURBS. FINISH ING, AND SPRINKLER SYSTEMS ARE BY THE OWNER/OPERATOR. TE FOOTINGS TO CONFORM WITH THE SOILS REPORT RECOMMENDATIONS FOR THIS		ng procession		_	SCHOLUE, FI	POLICE SA		ART A WATER	Can accept
1. REFER TO SHEETS <u>C1</u> 1	THRU <u>C4</u> FOR ALL APPLICABLE SITE DETAILS. IN CURBS AT ALL LANDSCAPE AREAS LOCATIONS. COORDINATE WITH McD'S PROJECT MANAGER.			A			₹			27604
REFED TO DAY	PAVING SPECIFICATION ING DETAILS FOR PAVING SPECIFICATIONS				ルフ		PORATI			N.C.
	N. TO OVERLAY EX. ASPHALT AS NECESSARY			70	\sum_{i}		D'S COF			RALEICH,
	GINEER RESERVES THE RIGHT TO REQUEST A COMPACTION						GOONAL TTEN PE		_	- RE
SPECIFICATION,	CORE SAMPLE. IF TESTS PROVE CORRECT, PER ABOVE TESTS WILL BE AT THE EXPENSE OF McDONALD'S, ∴ WILL BE CHARGED. NECESSARY			M	$\stackrel{\vee}{\rightarrow}$		TY OF IV		REGION	380
	LOT LIGHTING RECOMMENDATION B1000 WATT METAL HALIDE FIXTURE WI	-		70			PROPER HOUT TE		RALEIGH	SUITE
ASB-4-MH-DB-MT W/LAM GEN. CON. TO NOTE CO	RRECT LOCATION OF FIXTURES			(\supset		RE THE SED WITH		RAL	ı
ILLUMINATION BEYO	S SHALL BE GLARE SHIELDED AND NON-DIRECTIONAL TO PREVENT DIRECT ND THE PROPERTY LINE. CONTRACTOR TO CIRCUIT LOT LIGHTING AS NOTED.				5		TIONS A			AF COURT
	PARKING INFORMATION 2-HC SPACES 8.0' X 18.0' © 60 °	-			7 [THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF MCDONALD'S CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.			BEECHLEAF
TOTAL SPACES	30 SPACES 9.0' X 18.0' @ 60 °			(5)		AND SP IALL NO			3200 BE
34	2 SPACES 9.0' X 18.0' @ 90.0 - SPACES -' X -' @			5			PLANS.			
У I	- SPACES -' X -' ⊕ - ∘						THESE		빙	ADDRESS
	UTILITY INFORMATION			· · · · · · · · · · · · · · · · · · ·	con promovani	zarna am			OFFICE	ADD
CAMITADY OF "	SIZE TYPE LOCATION EXISTING SANITARY SEWER MANHOLE ON SITE			DATE						
SANITARY SEWE	IN WESTERN DRIVEWAY									
WATER	EXISTING WATERLINE RUNNING FROM FRANKLIN ROAD INTO SITE NEAR EAST PROPERTY LINE			QUIRED)	Description of the control of the co	The state of the s		TURES		
			-		4	ď	a E	بطلتك ي	В	16
STORM SEWER	N/A							\ATU		The state of the s
	N/A EX. OVERHEAD ALONG EAST PROPERTY LINE AND UNDERGROUND SERVICE ALONG EAST PROPERTY LINE			(2 RE(SIGNA		
STORM SEWER ELECTRIC GAS	EX. OVERHEAD ALONG EAST PROPERTY LINE AND UNDERGROUND			<u> </u>				CO-SIGN SIGNATU		

SURVEY INFORMATION 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 DATE STATUS 2801 FRANKLIN ROAD S.W. 08/11/05 STATE

VIRGINIA

ROANOKE

REGIONAL DWG. NO

WVWA ID# 6H6N2B

COUNTY

ROANOKE

PLAN CHECKED AS-BUILT

LOCATION CODE NUMBER 045-0076 PRE / POST DEVELOPMENT PLAN