

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 8, 2004

Mark R. Johnson, PE Bury + Partners 10000 San Pedro Ave, Ste 100 San Antonio, TX 78216

RE: Cottonwood Corners, Chick-Fil-A Grading and Drainage Plan Engineer's Stamp dated 6-21-04 (A14/D7H)

Dear Mr. Johnson:

Based on the information provided in your submittal received 6-23-04, the above referenced plan is approved for Building Permit. Please attach a copy of the approved plan to the construction sets prior to sign-off by Hydrology.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required and the area of the orifice must be reduced to 0.083 ft². This area is the result of the orifice equation, $Q=CA(2gh)^{0.5}$, given in the DPM Chapter 22, Section 3.A.2, where $Q_{all} = 0.78cfs$ (as stated by your plan), C = 0.6, $g = 32.2ft/s^2$, h = 3.77ft (45.13ft - 41.36ft).

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Charles Caruso) or 768-3645 (Bryan Wolfe).

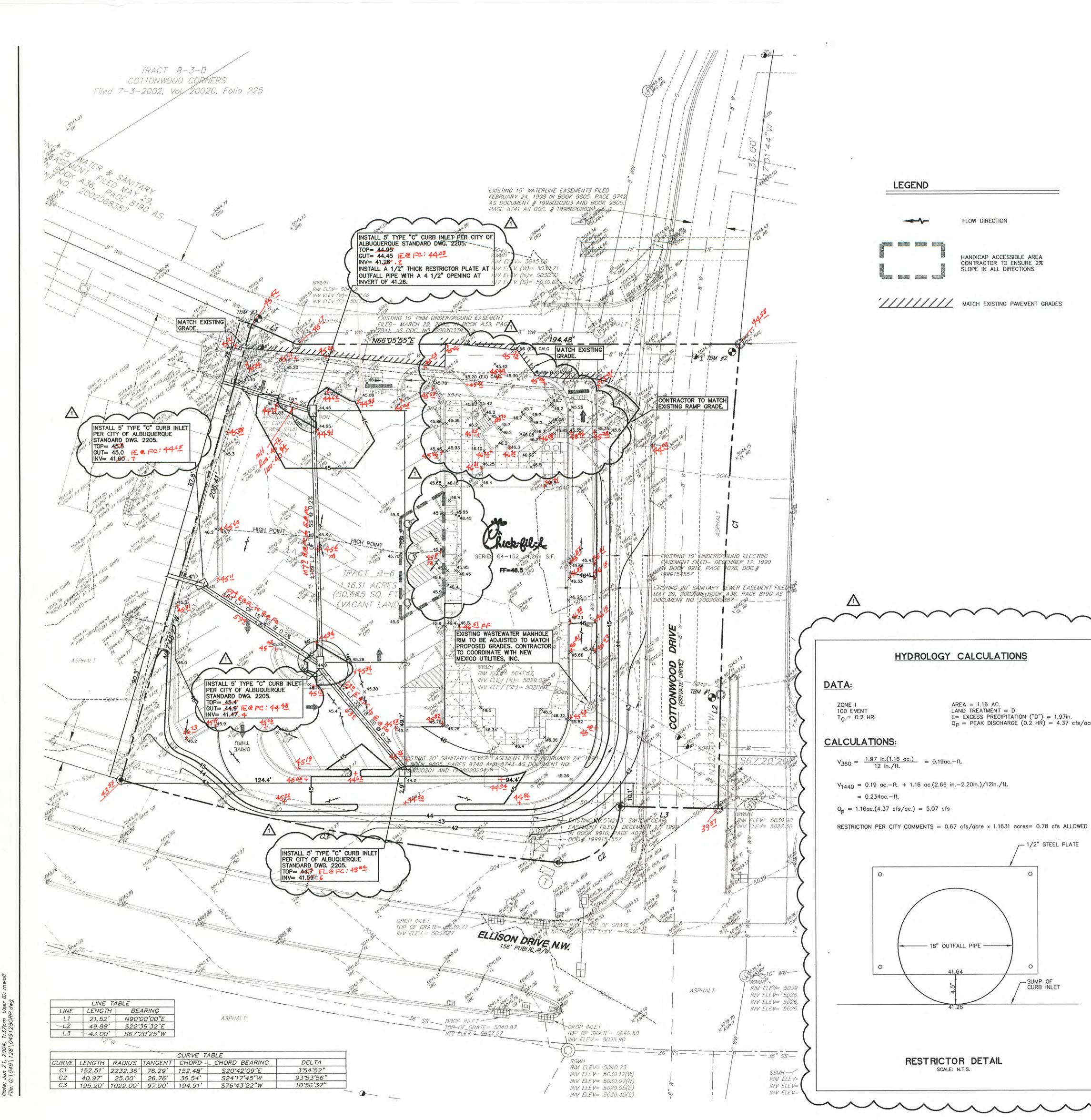
If you have any questions, please contact me at 505-924-3986.

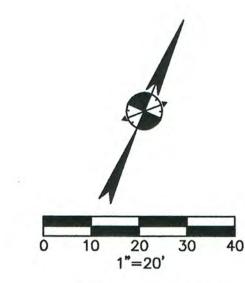
Sincerely, Bradf J. Bylin

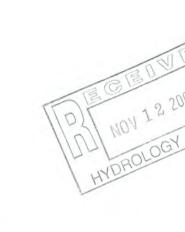
Bradley L. Bingham, PE

Principal Engineer, Planning Dept. Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design File







GRADING NOTES

- 1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 2. BARRICADING, TRAFFIC CONTROL, AND PROJECT SIGNS SHALL CONFORM TO "STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION BARRICADING AND CONSTRUCTION STANDARDS" AND THE CITY OF ALBUQUERQUE SPECIFICATIONS.
- 3. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. MINOR ADJUSTMENT TO FINISH GRADE TO ACCOMPLISH SPOT DRAINAGE IS ACCEPTABLE, IF NECESSARY, UPON PRIOR APPROVAL OF THE ENGINEER. PAVING INSTALLED SHALL "FLUSH OUT" AT ANY JUNCTURE WITH EXISTING PAVING.
- 4. ALL PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.
- 5. REFER TO SITE PLAN FOR HORIZONTAL DIMENSIONS.

FLOW DIRECTION

AREA = 1.16 AC.

 $Q_P = PEAK DISCHARGE (0.2 HR) = 4.37 cfs/acre$

_ 1/2" STEEL PLATE

CURB INLET

HANDICAP ACCESSIBLE AREA

CONTRACTOR TO ENSURE 2%

SLOPE IN ALL DIRECTIONS.

- 6. UNLESS NOTED OTHERWISE, ALL PARKING LOT GRADES ARE TO GUTTER OF INVERT. ADD 0.5' TO GUTTER GRADE FOR TOP OF CURB GRADE.
- 7. SITE PREPARATION AND GRADING, FOUNDATION EXCAVATION AND FILL COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
- 8. EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.
- 10. SIDEWALKS ADJACENT TO THE PROPOSED BUILDING SHALL HAVE A CROSS SLOPE OF 2% AWAY FROM THE BUILDING.

STORM SEWER NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARDS.
- 2. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 3. BARRICADING, TRAFFIC CONTROL, AND PROJECT'S SIGNS SHALL CONFORM TO "STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION BARRICADING AND CONSTRUCTION STANDARDS" AND THE CITY OF ALBUQUERQUE SPECIFICATIONS.
- 4. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- 5. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. (SEE PS1 FOR UTILITY CONTACTS)
- 6. THE CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AND RIM ELEVATIONS PRIOR TO CONSTRUCTION.
- 7. DURING THE CONSTRUCTION OF THESE IMPROVEMENTS, ANY INTERPRETATION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND ANY MATTER WHICH REQUIRES THE APPROVAL OF THE OWNER MUST BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR HIS DESIGNEE BEFORE ANY CONSTRUCTION INVOLVING THAT DECISION COMMENCES. ASSUMPTIONS ABOUT WHAT THESE DECISIONS MIGHT BE WHICH ARE MADE DURING THE BIDDING PHASE WILL HAVE NO BEARING ON THE DECISION.
- 8. FOR ADJUSTMENT OF NEW MEXICO UTILITIES, INC. APPURTENANCES OR TO VERIFY LOCATIONS OF EXISTING WATER AND WASTEWATER MAINS IN AREA, CONTACT BOB GAY AT (505) 989-2661 AT LEAST (3) THREE WORKING DAYS PRIOR TO CONSTRUCTION.
- CONSTRUCTION OF STREETS, ALLEYS, SIDEWALKS, DRIVEWAYS, AND STORM WATER FACILITIES IN THE PUBLIC EASEMENT OR RIGHT-OF-WAY MUST BE CONSTRUCTED IN CONFORMANCE WITH THE CITY OF ALBUQUERQUE STANDARD CONSTRUCTION DETAILS.
-). ANY EXISTING PAVEMENT, CURBS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
- 11. CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT BY THE CITY OF ALBUQUERQUE AND NMDOT FOR WORKING WITHIN THE PUBLIC RIGHT-OF-WAY.
- 12. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES TO LOCATE EXISTING FACILITIES. THESE INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING: (SEE SHEET PS1 FOR CONTACT INFORMATION) A. PUBLIC SERVICE COMPANY OF NEW MEXICO ALBUQUERQUE WEST SIDE (ELECTRIC)
- B. PUBLIC SERVICE COMPANY OF NEW MEXICO ALBUQUERQUE WEST SIDE (GAS) C. QWEST COMMUNICATIONS (TELEPHONE) D. NEW MEXICO UTILITIES, INC. (WATER/WASTEWATER) 13. PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONDUCT
- CONTRACTOR(S), UTILITY COMPANIES AND ANY OTHER AFFECTED PARTIES. CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE AT LEAST 48 HOURS PRIOR TO CONFERENCE. 14. DURING CONSTRUCTION, THE OWNER SHALL PROVIDE A QUALIFIED GEOTECHNICAL LAB TO PERFORM

A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY OF ALBUQUERQUE, CONSULTING ENGINEER,

- MATERIALS TESTING DURING THE CONSTRUCTION.
- 15. ALL PRIVATE STORM SEWER PIPE SHALL BE AS FOLLOWS, UNLESS INDICATED ON THE PLANS: (ALL PIPES SHALL HAVE A MANNING'S "N" VALUE OF 0.013)

A) 12" THRU 48" RCP, D-LOAD DESIGN 7) 6" THBU 12" PVC, SDR 35 OR SCH. 40

LEASE/LEGAL DESCRIPTION:

TRACT "B-6" OF TRACTS A THRU I, COTTONWOOD CORNERS, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE REPLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON MARCH 3, 2000, IN PLAT BOOK 2000C, FOLIO 68.

REFERENCE BENCHMARK:

TBM #1 CONCRETE NAIL AND BRASS DISK ON EAST BOUNDARY OF TRACT.

TBM #2 CONCRETE NAIL AND BRASS DISK AT NORTHEAST CORNER OF TRACT.

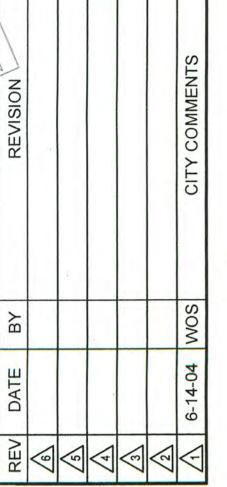
ELEVATION = 5044.53

ELEVATION = 5041.90

TBM #3 CONCRETE NAIL AND BRASS DISK AT NORTHEAST CORNER OF TRACT.

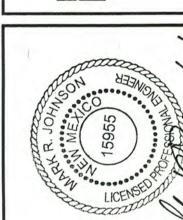
ELEVATION = 5045.42

Note: Information shown in red on " data taken from an actual the





er **M** 5 % 8



ainag

SHEET 2/12/04 SCALE: 1"=20"