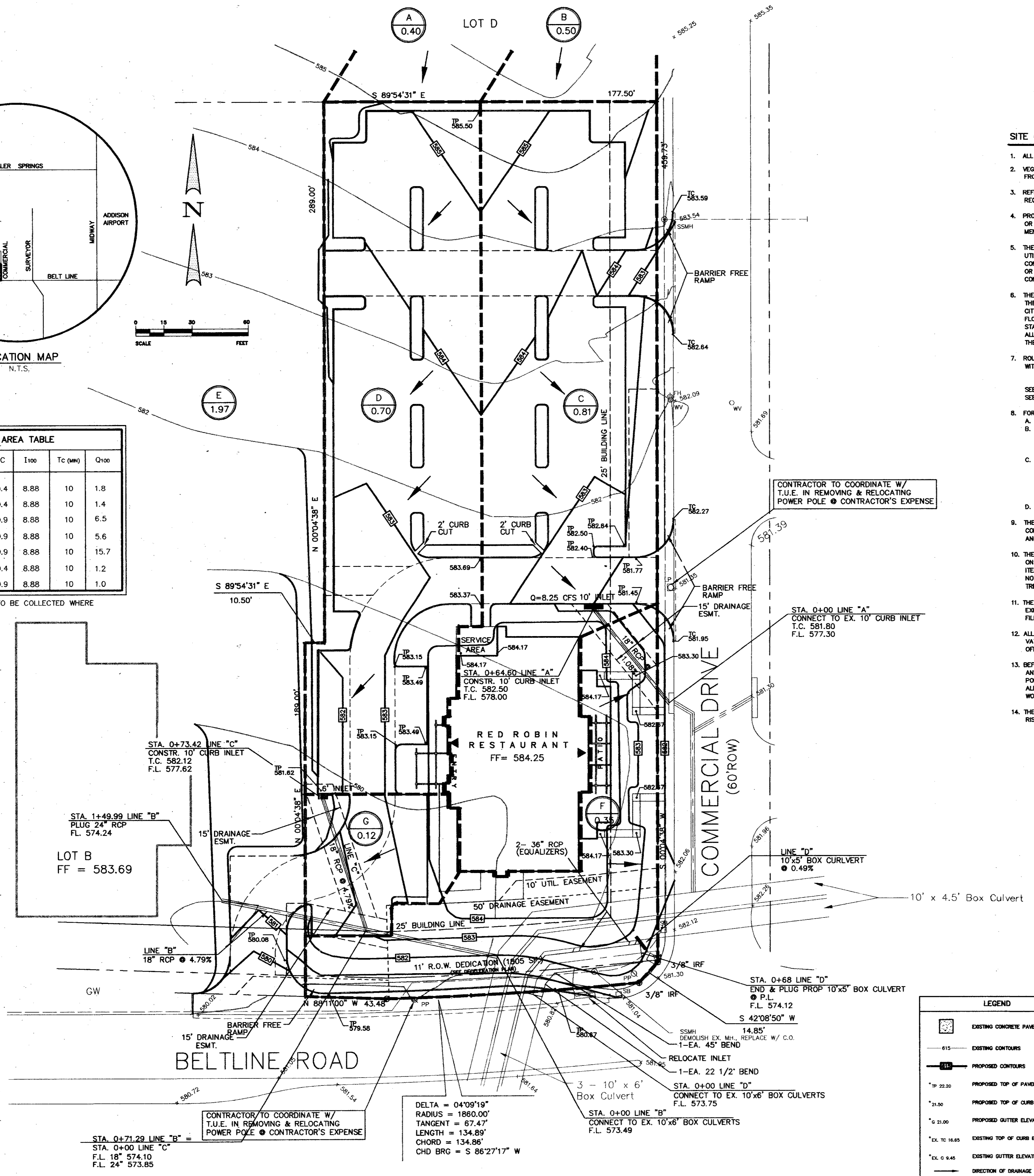


AREA ID.	AREA (AC.)	C	I100	Tc (MIN)	Q100
*A	0.50	0.4	8.88	10	1.8
*B	0.40	0.4	8.88	10	1.4
C	0.81	0.9	8.88	10	6.5
D	0.70	0.9	8.88	10	5.6
E	1.97	0.9	8.88	10	15.7
F	0.35	0.4	8.88	10	1.2
G	0.12	0.9	8.88	10	1.0

\* OFFSITE DRAINAGE AREA TO BE COLLECTED WHERE LOT D DEVELOPES.



**SITE GRADING GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON STANDARDS.
- VEGETATION, DEBRIS, AND TOPSOIL CONTAINING ORGANIC MATERIALS SHOULD BE CLEARED AND GRUBBED FROM THE ENTIRE SITE (APPROX. DEPTH OF 8 INCHES) AT THE BEGINNING OF EARTHWORK.
- REFERENCE CIVIL SPECIFICATIONS AND SHEETS C-4 FOR PAVEMENT SUBGRADE PREPARATION REQUIREMENTS. REFERENCE ARCHITECTURAL SPECIFICATIONS FOR BUILDING PAD PREPARATION.
- PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREAS REFLECT TOP OF PAVEMENT SURFACE OR TOP OF CURB AT CURB LINE. THE LIMITS OF EARTHWORK IN PAVED AREAS IS THE BOTTOM OF PAVEMENT. PROPOSED CONTOURS SHOWN OUTSIDE PAVED AREAS ARE THE EXACT LIMITS OF GRADING.
- THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF EARTHWORK AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES AND/OR STRAW BALES (OR OTHER METHOD APPROVED BY THE CITY OF DALLAS) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
- ROUGH GRADING UNDER PROPOSED PAVING AND ALL GENERAL SITE ROUGH GRADING SHALL BE BROUGHT TO WITHIN +/- 0.1 FOOT. ROUGH GRADING ELEVATIONS IN PAVED AREAS ARE AS FOLLOWS:  
5 INCHES BELOW FINISHED CONTOURS IN LIGHT DUTY PAVED AREAS  
8 INCHES BELOW FINISHED CONTOURS IN HEAVY DUTY PAVED AREAS  
SEE ARCHITECTURAL PLANS FOR ROUGH GRADING ELEVATIONS IN BUILDING PAD AREA.  
SEE LANDSCAPE PLANS FOR ROUGH GRADING ELEVATIONS IN LANDSCAPED AREAS.
- FOR ALL WORK WITHIN STATE OR CITY RIGHT OF WAY, THE CONTRACTOR SHALL:  
A. NOTIFY THE TxDOT OR CITY MINIMUM 2 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.  
B. NOT STORE MATERIAL, EXCESS DIRT OR EQUIPMENT ON THE SHOULDERS OF PAVEMENT OR IN MEDIAN STRIPS. THE PAVEMENT SHALL BE KEPT CLEAN, FREE OF ANY MUD OR EXCAVATION WASTE FROM TRUCKS OR OTHER EQUIPMENT. ON COMPLETION OF THE WORK, ALL DEBRIS AND EXCESS MATERIAL SHALL BE REMOVED FROM THE RIGHT OF WAY.  
C. PROVIDE ALL NECESSARY AND ADEQUATE SAFETY PRECAUTIONS SUCH AS SIGNS, FLAGMEN, LIGHTS, AND BARRICADES AS REQUIRED BY THE TOWN OF ADDISON AND IN ACCORDANCE WITH THE TEXAS MUTCD. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HOLD HARMLESS THE STATE OF TEXAS, THE CITY OF NORTH RICHLAND HILLS, AND THE OWNER FROM ANY CLAIMS FOR DAMAGE DONE TO EXISTING PRIVATE PROPERTY, PUBLIC UTILITIES, OR TO THE TRAVELING PUBLIC.  
D. POST NECESSARY BONDS AS REQUIRED BY THE CITY AND/OR THE STATE.
- THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE ARCHITECT, ENGINEER, AND THE OWNER, AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY EXISTING STRUCTURES, FENCES, DEBRIS, OR TREES ON SITE, AND SHALL COORDINATE ALL REMOVAL WITH THE GENERAL CONTRACTOR. NO TREES OR OTHER ITEMS SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ARCHITECT, ENGINEER, AND OWNER. ALL TREES NOT REMOVED SHALL BE GUARDED AND PRESERVED DURING CONSTRUCTION. IF DAMAGED, THE EXISTING TREE WILL BE REPLACED (EQUAL CALIPER) AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL EMPLOY, AT HIS EXPENSE, A QUALIFIED SOILS LAB TO DETERMINE IF THE EXISTING SUBGRADE AND ON-SITE NATIVE MATERIAL IS WITHIN SPECIFICATIONS PRIOR TO STARTING FILL OPERATIONS.
- ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE GRADING CONTRACTOR AT HIS EXPENSE.
- BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROTECT AND PRESERVE CONTROL POINTS AT ALL TIMES DURING THE COURSE OF THE PROJECT. THE GRADING CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
- THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES.

CONTRACTOR TO COORDINATE W/ T.U.E. IN REMOVING & RELOCATING POWER POLE @ CONTRACTOR'S EXPENSE

STA. 0+00 LINE "A" CONNECT TO EX. 10' CURB INLET T.C. 581.80 F.L. 577.30

LOT B FF = 583.69

STA. 0+71.29 LINE "B" F.L. 18" 574.10 F.L. 24" 573.85

CONTRACTOR TO COORDINATE W/ T.U.E. IN REMOVING & RELOCATING POWER POLE @ CONTRACTOR'S EXPENSE

DELTA = 04'09"19"  
RADIUS = 1860.00'  
TANGENT = 67.47'  
LENGTH = 134.89'  
CHORD = 134.86'  
CHD BRG = S 86°27'17" W

STA. 0+00 LINE "B" CONNECT TO EX. 10'x6' BOX CULVERTS F.L. 573.49

STA. 0+68 LINE "D" END & PLUG PROP 10'x5' BOX CULVERT @ P.L. F.L. 574.12

	EXISTING CONCRETE PAVEMENT
	EXISTING CONTOURS
	PROPOSED CONTOURS
	PROPOSED TOP OF PAVEMENT ELEVATION
	PROPOSED TOP OF CURB ELEVATION
	PROPOSED GUTTER ELEVATION
	EXISTING TOP OF CURB ELEVATION
	EXISTING GUTTER ELEVATION
	DIRECTION OF DRAINAGE

**AS BUILT**  
Winkelmann & Associates, Inc. hereby certifies that this plan, to the best of our knowledge is "As Built." All modifications from the originally approved construction documents have been made as per information provided by the contractor. Winkelmann & Associates, Inc. does not certify as to the correctness or quality of information as no field inspection was performed.  
*[Signature]* 7-10-95  
DATE

BENCH MARK:  
"I" out top of curb at the curb return east side of Commercial Drive and Beltline Road.  
Elev = 582.16

\* MIN. FINISH FLOOR ELEVATION ARE FROM REPORT PREPARED BY O'BRIEN ENGINEERS DATED: 7/7/94

APPROVED	REVISION	DATE	NO.
<p>Winkelmann &amp; Associates, Inc. CONSULTING CIVIL ENGINEERS &amp; SURVEYORS 3300 ALBUQUERQUE ROAD, SUITE 200 IRVING, TEXAS 75238 (214) 495-7000 (214) 495-7009 FAX</p>			
<p>T.L. CHENOWETH SURVEY ABSTRACT NO. 273 D. MUESS SURVEY ABSTRACT NO. 923 CITY OF ADDISON, DALLAS COUNTY, TEXAS</p>			
<p>OWNER: RED ROBIN RESTAURANT INTERNATIONAL 28 EXECUTIVE PARK, SUITE 200 IRVINE, CA 92714</p>			
<p><b>DRAINAGE / GRADING PLAN</b> <b>BLOCK 3, BELTLINE MARSH BUSINESS PARK</b> <b>ADDISON, TEXAS</b></p>			
Scale: 1" = 30'	Date: 7/03/95	Designed By: TL	
		Drawn By: TL	
		Checked By: MC	
		File: 093016RD	
		Project No.: 09301.01	
<p><b>SHEET</b> C-6 OF</p>			