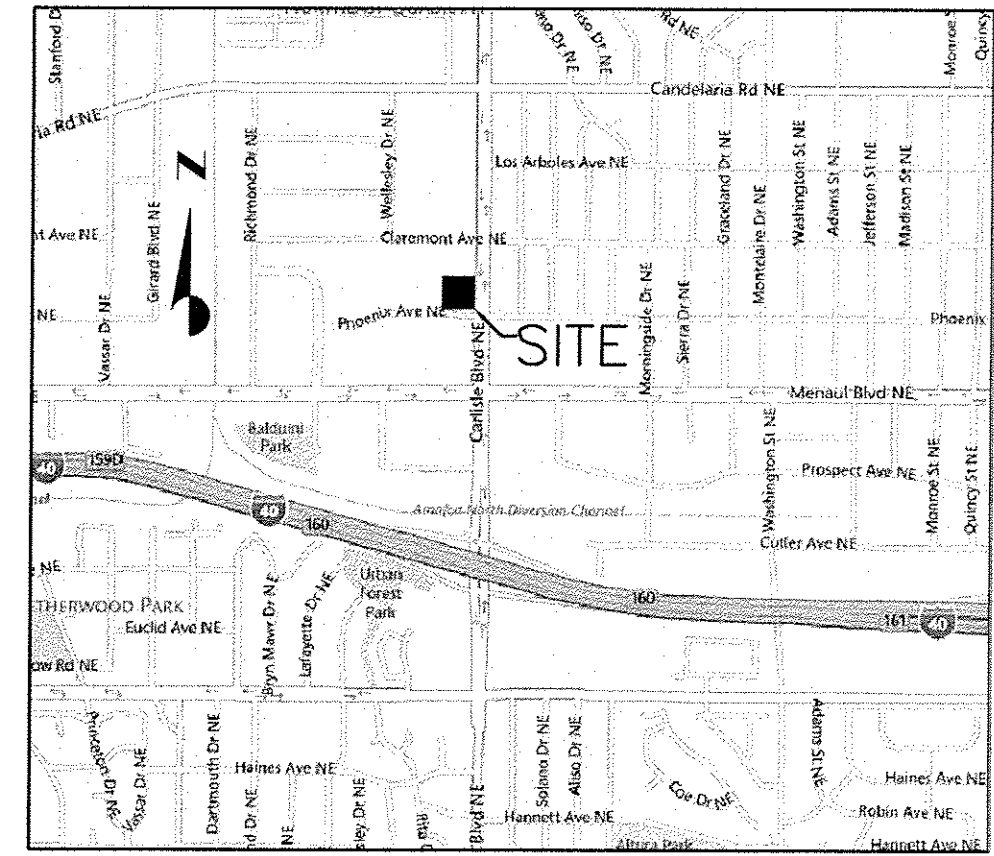


CONSTRUCTION DRAWINGS
MURPHY EXPRESS
LOT 1, BLOCK A-1-A1, AMERICAN SQUARE SUBDIVISION
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO



VICINITY MAP
NOT TO SCALE

GRADING LEGEND

24	EXISTING CONTOUR
24.00	PROPOSED CONTOUR
24.0	PROPOSED SPOT ELEVATION BY OTHERS
24.0	PROPOSED SPOT ELEVATION
INV	INVERT ELEVATION
FF	FINISHED FLOOR
TC	TOP OF CURB
TOI	TOP OF ISLAND
TDF	TOP OF FOUNDATION
TOS	TOP OF SIDEWALK
FL	FLOWLINE
HP	HIGH POINT
LP	LOW POINT
ME	MATCH EXISTING
GB	GRADE BREAK
→	FLOW ARROW
3.0%	PROPOSED SLOPE AND DIRECTION

SITE GRADING NOTES

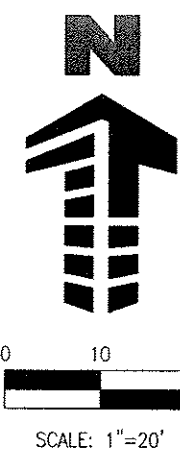
- CONTRACTOR SHALL NOTE THAT EXISTING CONTOURS SHOWN ON THIS PLAN ARE BASED UPON A TOPOGRAPHICAL SURVEY PERFORMED BY PRECISION SURVEYS, INC. IN JUNE, 2013. EXISTING GRADES MAY HAVE CHANGED SIGNIFICANTLY SINCE THEN. IF THE CONTRACTOR DESIRES CURRENT AND UP TO DATE SURVEY DATA, A NEW SURVEY SHALL BE PERFORMED AT THE CONTRACTOR'S SOLE EXPENSE.
- ALL CUT AND FILL SLOPES IN LANDSCAPE AREAS SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE NOTED.
- PRE-CAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION.
- STORM SEWER PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE, UNLESS OTHERWISE NOTED ON THE PLANS. ANY ALTERNATE PIPE MATERIAL MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- EXISTING GRADING CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS. PROPOSED GRADING CONTOURS SHOWN AT 1 FOOT INTERVALS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 10:1 OR STEEPER AFTER SEEDING. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
- ALL PROPOSED SPOT GRADES POINTING TO CURB REPRESENT FLOWLINE ELEVATIONS, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY THAT SLOPES WITHIN DESIGNATED ADA AREAS COMPLY WITH ALL ADA REQUIREMENTS (NO MORE THAN 2% CROSS-SLOPE AND 5% IN THE DIRECTION OF TRAVEL).

DRAINAGE NARRATIVE

THE SITE CONSISTS OF APPROXIMATELY 1.1 ACRES AND IS LOCATED BETWEEN PHOENIX AVE NE AND CLARIMONT AVE NE, BOUNDED BY THE NORTH BY A PRIVATE ACCESS ROAD, TO THE SOUTH BY PHOENIX AVE NE, TO THE EAST BY CARLISLE BLVD NE AND TO THE WEST BY A PRIVATE PARKING LOT. THE SITE CONSISTS OF A PARKING LOT WITH EXISTING ASPHALT, LANDSCAPE ISLANDS, TREES AND LIGHT POLES. THERE IS APPROXIMATELY 6 FOOT GRADE DIFFERENCE FROM THE SOUTHEAST CORNER TO THE NORTHWEST CORNER. THE SITE CURRENTLY SLOPES AT APPROXIMATELY 3% SLOPE AND SHEET FLOWS TO THE WEST TOWARDS THE EXISTING PARKING LOT AND FLOWS TO WEST PHOENIX AVE NE. THE PROPOSED IMPROVEMENTS WILL NOT SIGNIFICANTLY IMPACT THE DRAINAGE PATTERNS THAT CURRENTLY EXIST. A TRENCH DRAIN WILL CAPTURE THE STORMWATER AREA UNDER THE FUEL CANNOPY AND IS PASSED THROUGH A OIL/WATER SEPARATOR BEFORE DAYLIGHTING AT THE NORTHWEST CORNER OF THE SITE. THE TOTAL PROPOSED PERVIOUS AREA FOR THE SITE IS GREATER THAN THE EXISTING PERVIOUS AREA AND THEREFORE THE PROPOSED RUN-OFF FROM THE SITE WILL BE LESS THAN THE EXISTING RUN-OFF.

PERVIOUS AREA CALCULATION

	EXISTING	PROPOSED
PERVIOUS LANDSCAPE AREA	7,855 S.F.	8,712 S.F.
% PERVIOUS OF ENTIRE PARCEL	16.3%	18.1%



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CENTER OF NEW MEXICO
(800) 321-ALERT
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE
YOU DIG, GRADE, OR EXCAVATE FOR THE
MARKING OF UNDERGROUND MEMBER UTILITIES

DRAINAGE CALCULATION

BASIN	AREA (ACRES)	AREA (SF)	TREATMENT TYPE	RUNOFF - CFS	
				2 YEAR	100 YEAR
A	0.066	2,884	D	0.14	0.33
B	0.066	2,884	D	0.14	0.33

* RUNOFF WAS CALCULATED PER THE ALBUQUERQUE DEVELOPMENT PROCESS MANUAL - VOL. II, CHAPTER 22 ASSUMING ZONE 3 AND LAND TREATMENT D.

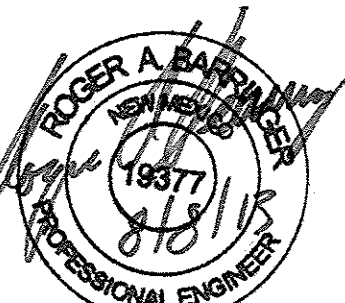
CARLISLE BOULEVARD, N.E.

PHOENIX AVENUE, N.E.

BLOCK A-1-A AMERICAN SQUARE SUBDIVISION

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MURPHY OIL
CONSTRUCTION DRAWINGS
MURPHY EXPRESS SITE

Project No: MOC000027
Sheet Scale: 1" = 20'
Designed By: BAR
Drawn By: JAR
Date: JULY 2013
Disk File: MOC027_C06-Grad

**GRADING &
DRAINAGE PLAN**

C06