

EROSION CONTROL & MAINTENANCE PLAN NOTES:

- A. RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
- B. PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAINED WHEN THE DISTURBED SURFACE IS COVERED WITH STRUCTURES, PAVING AND OR PERENNIAL VEGETATION HAVING A UNIFORM COVERAGE DENSITY OF AT LEAST 70%. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
- C. CONTRACTORS SHALL INSPECT POLLUTION CONTROL MEASURES AT LEAST ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
- D. INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY OR STATE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT.
- E. CARE SHALL BE TAKEN TO MINIMIZE THE ENCROACHMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES, PUBLIC STREETS, AND ONTO PRIVATE PROPERTY UNTIL IMPERVIOUS MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED OR UNTIL PROPOSED LANDSCAPE HAS BEEN ESTABLISHED.
- F. REFER TO 7/C3 FOR SILT FENCE CONSTRUCTION.

GENERAL NOTES:

- A. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION. NOTIFY ARCHITECT IF EXISTING CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED HEREIN.
- B. REFER TO STRUCTURAL PLANS FOR DEVELOPMENT OF SIDEWALKS ADJACENT TO FOUNDATIONS.
- C. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- D. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING UTILITIES AND ANY MODIFICATIONS THEREOF. NOT ALL UTILITIES ARE SHOWN HEREIN AND SUBJECT TO INACCURACIES.
- E. ALL WORK AND MATERIALS SHALL CONFORM TO THE CITY OF TULSA'S STANDARDS & GUIDELINES.

STAGES OF CONSTRUCTION:

- A. CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT OWNER WITH ANY CONFLICTS. MONTH 1
- B. INSTALLATION OF EROSION CONTROL FENCE. MONTH 1
- C. DEMOLITION OF EXISTING SITE IMPROVEMENTS. MONTH 1
- D. ROUGH GRADING. MONTH 1 & MONTH 2
- E. CONSTRUCTION OF NEW SITE IMPROVEMENTS. MONTH 2
- F. FINAL GRADING. MONTH 3
- G. PLACEMENT OF FINAL LANDSCAPING ITEMS AND SOD. MONTH 3
- H. REMOVAL OF EROSION CONTROL FENCE. MONTH 3

PROJECT SUMMARY:

PROJECT CONSISTS OF A 2,100 SF BUILDING ADDITION, THE PROPOSED ADDITION WILL BE BUILT ONTO AN EXISTING BUILDING, WITHIN THE EXISTING PARKING LOT.

THE EXISTING PARKING LOT SHALL BE SAW CUT WHERE SHOWN ON SHEET C2 TO ALLOW FOR NEW CURB AND GUTTER TO MATCH FLUSH TO EXISTING PAVEMENT. THE PROPOSED ADDITION AND REMOVAL OF PAVEMENT WILL DECREASE THE AMOUNT OF IMPERVIOUS AREA COMPARED TO THE EXISTING SITE.

ALL STORMWATER RUNOFF FROM DEVELOPED SITE WILL BE DIRECTED TO CANDELARIA ROAD AND 4TH STREET. THE SAME FINAL DISCHARGE LOCATION AS THE PRE-DEVELOPED SITE.

TRAFFIC FLOW WILL NOT BE IMPEDED BY THE PROPOSED BUILDING ADDITION. TRAFFIC CIRCULATION WILL BE IMPROVED BY REMOVING THE EXISTING DEAD END FROM BEHIND THE BUILDING.

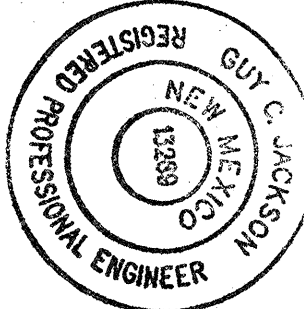
AS INDICATED BY THE AS-BUILT INFORMATION SHOWN HEREON, THIS PROJECT APPEARS TO HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE INTENT OF THE APPROVED GRADING AND DRAINAGE PLAN - ENGINEER'S SEAL 18230, DATED 9-20-10 & 7-11-11.

IT IS BASED UPON THIS EVALUATION OF AS-CONSTRUCTED CONDITIONS THAT ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY (CO) IS HEREBY RECOMMENDED. COLLECTION OF THE AS-BUILT INFORMATION WAS PERFORMED BY ADAM'S LAND & CONSTRUCTION SURVEYS (LENORE ARMISTO-PS #15511). THIS INFORMATION IS INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE WITH THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT.

THIS CERTIFICATION DOES NOT ADDRESS OR EVALUATE ADA ACCESSIBILITY ISSUES OR COMPLIANCE. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

THIS CERTIFICATION DOES NOT ADDRESS OR EVALUATE THE DESIGN ELEMENTS OF THE APPROVED PLAN AS PREPARED BY THE ENGINEER OF RECORD (NEIL BRADY -PE#18230, DATED 9-20-10 WITH REVISIONS ON 7-11-11).

GUY C. JACKSON, NMPE 13289 DATE 1-5-2012

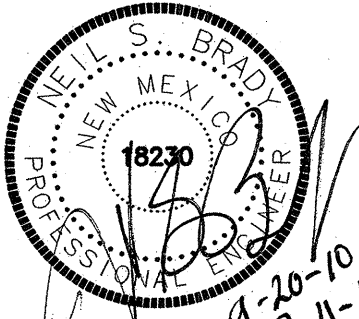


ENTIRE SHEET HAS BEEN REVISED PER THE REVISED SITE PLAN



REVISIONS:

- 8-5-10: ADDED NOTES
- 9-20-10: DOWNSPOUT SWALE
- 5-26-11: SITE REV
- 7-11-11: SITE REV



SHEETS BEARING THIS SEAL ARE AUTHENTICATED. RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS OR INSTRUMENTS ARE DISCLAIMED.

PROJ# 10126-10
DWG# WB-108-755

ANDERSON/A/E
ENGINEERING, INC.
ENGINEERS - SURVEYORS - LABORATORIES - DRILLING
2045 W. WOODLAND - SPRINGFIELD, MISSOURI 65807 - PHONE (417) 886-2741

SITE GRADING & STORMWATER PLAN

CAUTION:

INFORMATION ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

TRAFFIC GENERATION SUMMARY:

ACCORDING TO THE 7TH EDITION ITE TRIP GENERATION REPORT, AN AUTOMOBILE PARTS STORE IS EXPECTED TO GENERATE 186 DAILY TRIPS BASED ON THE TOTAL SQUARE FEET OF THE STORE. THE AM HOURLY PEAK IS PREDICTED TO BE 7 TRIPS WITH 4 ENTERING THE SITE AND 3 LEAVING THE SITE. THE PM HOURLY PEAK IS PREDICTED TO BE 17 TRIPS WITH 8 TRIPS ENTERING THE SITE AND 9 TRIPS LEAVING THE SITE.

STORMWATER RUNOFF SUMMARY:

TOTAL PROPERTY AREA= 0.75 ACRES
TOTAL DISTURBED AREA = 0.5 ACRES < 1.0 ACRES THEREFORE NO NOI.

1. ON-SITE AREAS & CURVE NUMBERS:
DESIGN PROJECT AREA = 0.75 ACRES
PRE-DEVELOPMENT
EXISTING BLDG & PARKING LOT
PERVIOUS AREA = 0.08 ACRES C=0.85
IMPERVIOUS AREA = 0.67 ACRES C=0.98
COMPOSITE COEFFICIENT, C = 0.97
POST-DEVELOPMENT
BUILDING ADDITION, BLDG, PARKING
PERVIOUS AREA = 0.18 ACRES C=0.85
IMPERVIOUS AREA = 0.57 ACRES C=0.98
COMPOSITE COEFFICIENT, C = 0.94

2. TIME OF CONCENTRATION:
PRE-DEVELOPMENT
ASPHALT PARKING LOT
Tc= 5.0 MINUTES
POST-DEVELOPMENT
ASPHALT PARKING LOT
Tc= 5.0 MINUTES

3. PRECIPITATION DATA:
PER NOAA NATIONAL WEATHER SERVICE
PRECIPITATION INTENSITY (in/hr):
5 MIN 15 MIN 30 MIN 60 MIN
2-YR EVENT 2.46 1.87 1.04 0.64
25-YR EVENT 5.27 3.32 2.23 1.38
25-YR EVENT 6.00 3.78 2.54 1.57
100-YR EVENT 6.78 4.26 2.87 1.78

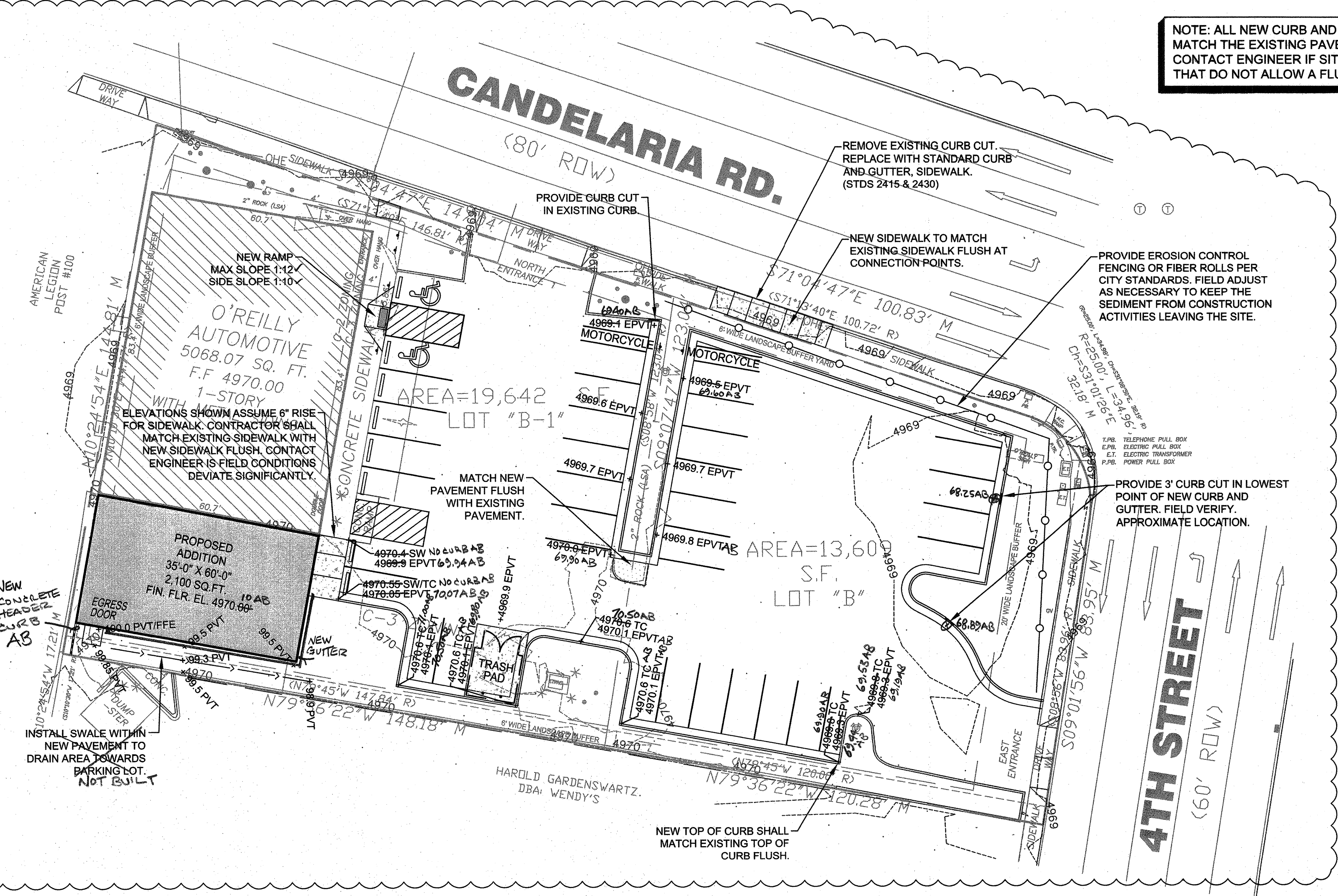
4. EXISTING SITE RUNOFF:
FLOW, cfs 2 YR 25 YR 50 YR 100 YR
Q post= 1.78 3.82 4.36 4.92

5. DEVELOPED SITE RUNOFF:
FLOW, cfs 2 YR 25 YR 50 YR 100 YR
Q post= 1.73 3.71 4.23 4.77

CALCULATIONS WERE MADE USING HYDRAFLOW HYDROGRAPHS 2007 RATIONAL METHOD COMPUTER MODELING SOFTWARE

SYMBOLS LEGEND

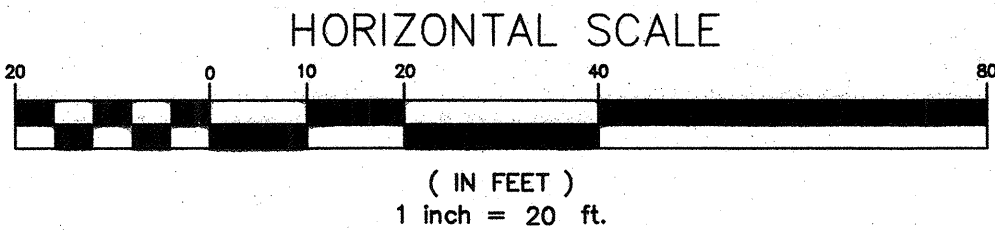
REFER TO SURVEY (SV1) FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL.			
100	EXISTING GRADE LINES	NEW SPOT ELEVATIONS LIST GRADE SIDEWALK TOP OF CURB TOP OF PAVEMENT NEW GRADE EXISTING TOP OF CURB EXISTING GRADE EXISTING PAVEMENT EXISTING SIDEWALK FLOW LINE	ABBREVIATION NONE SW TC PVT GD ETC EGD EPVT ESW FL
100	PROPOSED NEW GRADE LINES		
	NEW BUILDING CONSTRUCTION		
x-x	SILT FENCE		



NOTE: ALL NEW CURB AND GUTTER SHALL MATCH THE EXISTING PAVEMENT FLUSH. CONTACT ENGINEER IF SITUATIONS OCCUR THAT DO NOT ALLOW A FLUSH CONNECTION.

1 SITE GRADING AND STORMWATER

C1 SCALE: 1" = 20'



O'Reilly AUTO PARTS
PROJECT:
ADDITION TO O'REILLY AUTO PARTS STORE
416 CANDELARIA ROAD NW
ALBUQUERQUE, NM

233 South Patterson
Springfield, MO 65802
Phone: (417) 862-2674

DRAWN: WAS
CHECKED: NSB
DATE: 04/23/10
JOB NO.: AB2-2700
SHEET:

C1
SHEET 1 OF 3