

CONSULTANTS

CIVIL ENGINEER:
WALLA ENGINEERING, LTD
6100 INDIAN SCHOOL ROAD, NE, SUITE 105
ALBUQUERQUE, NEW MEXICO 87110
TEL: (505) 881-3008 FAX: (505) 881-4025
CONTACT: MIKE WALLA

STRUCTURAL ENGINEER:
WALLA ENGINEERING, LTD
6100 INDIAN SCHOOL ROAD, NE, SUITE 105
ALBUQUERQUE, NEW MEXICO 87110
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MECHANICAL AND ELECTRICAL ENGINEERS:

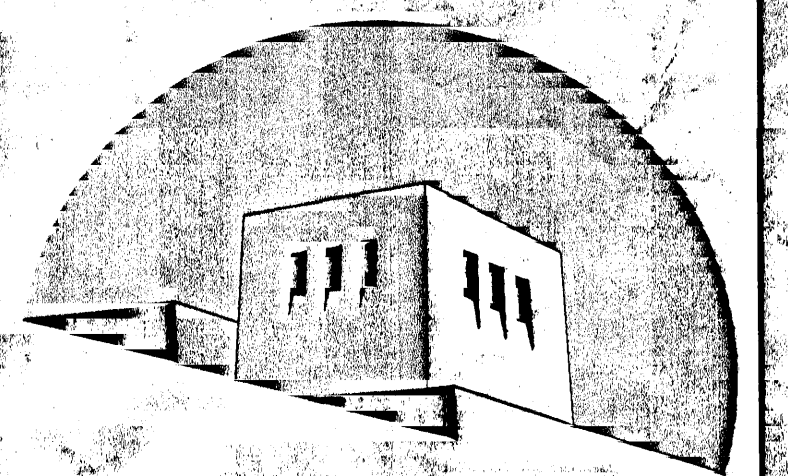
THE HENSLEY ENGINEERING GROUP
2340 MENAUL BLVD. NE
ALBUQUERQUE, NM 87107
TEL: (505) 888-1900 FAX: (505) 888-1906
CONTACT: BILL LEATHERBURY, ELECTRICAL
CONTACT: BRANDON HENSLEY, MECHANICAL

LANDSCAPE ARCHITECT:

MORROW REARDON WILKINSON MILLER, LTD.
210 LA VETA NE
ALBUQUERQUE, NEW MEXICO 87108
TEL: (505) 888-2288 FAX: (505) 865-9637
CONTACT: DENNIS WILKINSON

LEED CONSULTANT:

GREEN IDEAS
1130 N. SECOND STREET
PHOENIX, AZ 85004
TEL: (602) 635-7925
CONTACT: ALEX TSUJI



**UNM HOSPITAL
SW MESA CLINIC**

301 UNSER BOULEVARD NW
ALBUQUERQUE, NEW MEXICO
87121

February 08, 2010

MARK	DATE	DESCRIPTION
△	2/19/10	ADDENDUM #1
△	4/3/10	GRADING REVISIONS

SUBMITTAL: February 08, 2010
PROJECT NO: 315
CAD DWG FILE: c101.dwg
DRAWN BY: LEK,BZ
CHECKED BY: MJW

SHEET TITLE

**GRADING AND DRAINAGE
PLAN**

C-101

Walla Structural Engineering
ENGINEERING LTD
6100 Indian School Road NE, Suite 105
Albuquerque, NM 87110
505-881-3008 Fax: 505-881-4025

GENERAL NOTES

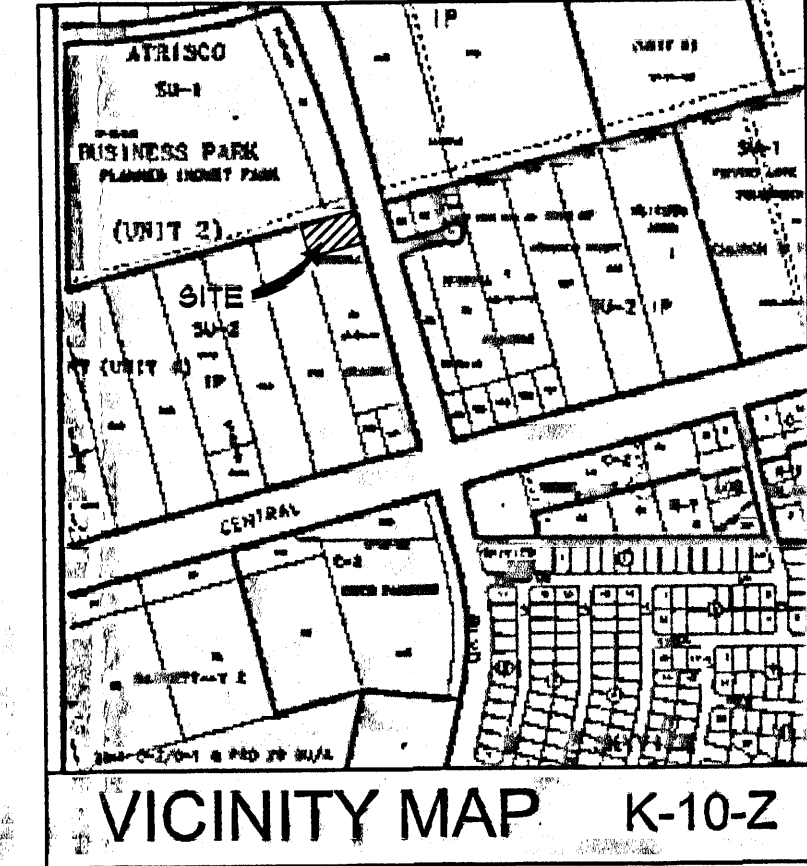
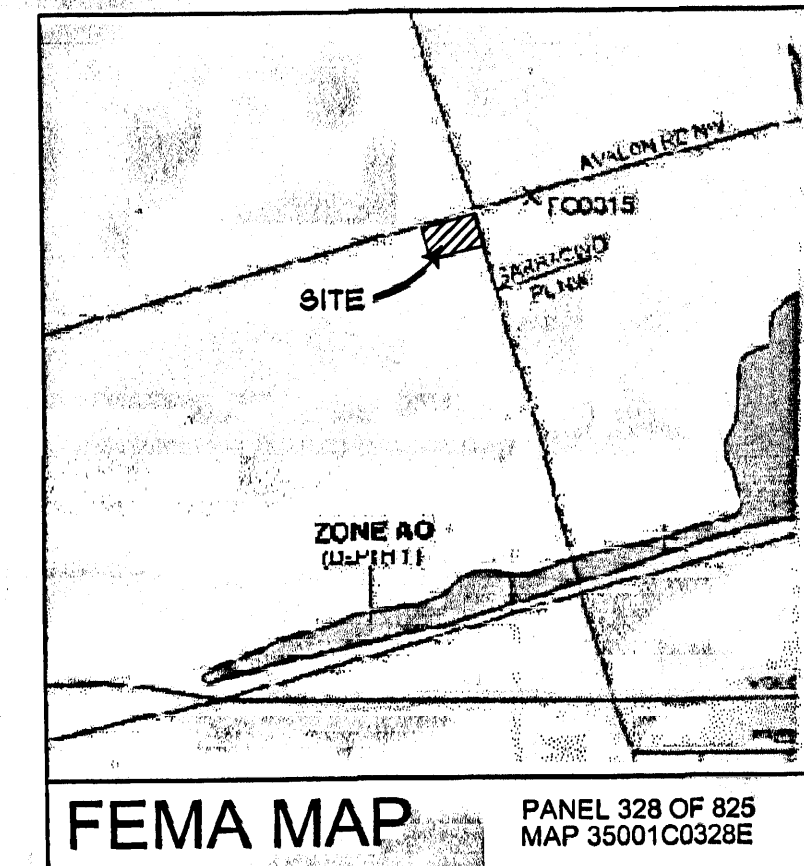
- A THE PAVING CONFIGURATION SHOWN • UNSER AND AT THE ACCESS DRIVE IS UNDER CONSTRUCTION CURRENTLY.

KEYED NOTES

- TOP OF CURB TO MATCH TOP OF ASPHALT ELEVATION • THIS LOCATION
- 1:20 MAXIMUM SLOPE
- NEW CURB CUT REQUIRED • ACCESS DRIVE
- NEW CURB AND GUTTER PER DETAILS A2/C201 AND A3/C201
- EXISTING CURB AND GUTTER
- ASPHALT PAVING PER DETAIL A1/C201
- NEW SIDEWALK PER C.O.A. STANDARD DETAIL 2430
- CONCRETE CHANNEL PER DETAIL B1/C201
- 1'-0" WIDE SIDEWALK CULVERT PER DETAIL A4/C201
- 6" THICK, 4000 PSI, A/E CONCRETE DRIVE PAD W/4"X16" O.C. EACH WAY
- 4" THICK, 4000 PSI, A/E CONCRETE SIDEWALK PER DETAIL B2/C201

LEGEND

- PROPERTY LINE
- NEW BUILDING LINE
- 5380 --- EXISTING CONTOUR
- NEW CONTOUR
- + 05.5 EXISTING SPOT ELEVATION
- NEW FLOW DIRECTION ARROW
- TA TOP OF ASPHALT
- TC TOP OF CONCRETE
- FG FINISHED GRADE
- NEW CONCRETE PAVING
- NEW AC PAVING
- ROOF DRAIN LOCATION
- BOC BACK OF CURB (EXISTING)
- EC EDGE OF CONCRETE (EXISTING)
- G GRADE (EXISTING)
- FL FLOW LINE
- TG TOP OF GRADE
- INV INVERT
- SWALE



LEGAL DESCRIPTION

LOT 1, UNIT HOSPITALS CLINIC, ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT FILED IN THE OFFICE OF COUNTY CLERK OF BERNILLO COUNTY, NEW MEXICO ON JANUARY 22, 2009, BOOK 2009C, PAGE 19, DOCUMENT 20090206244

BENCHMARK (TBM)

ACS CONTRA STATION 1-K10, LOCATED AT THE INTERSECTION OF CENTRAL AVENUE NW AND UNSER BOULEVARD NW, ON TOP OF CURB • TRAFFIC ISLAND, ELEVATION • 5297.854 (NAVD 1983)

HYDROLOGY CALCULATIONS

PRECIPITATION ZONE 1 DESIGN STORM (IN.)									
				1hr	2hr	24hr	4day	10day	
				1.81	2.20	2.66	3.12	3.67	
EXISTING CONDITIONS									
LAND TRIBUT	AREA (ACRE)	AREA %	F6 (CFS/AC)	Q (CFS)	V6 (CF)	V24 (CF)	V4DAY (CF)	V10DAY (CF)	
A	0.000	0%	0.44	129	0.00	0	0	0	0
B	1820	100%	0.61	2.03	3.69	4.426	4.426	4.426	4.426
C	0.000	0%	0.33	2.81	0.00	0	0	0	0
D	0.000	0%	1.31	4.31	0.00	0	0	0	0
TOTALS	1820	100%		3.69	4.426	4.426	4.426	4.426	
PROPOSED CONDITIONS									
LAND TRIBUT	AREA (ACRE)	AREA %	F6 (CFS/AC)	Q (CFS)	V6 (CF)	V24 (CF)	V4DAY (CF)	V10DAY (CF)	
A	0.000	0%	0.44	129	0.00	0	0	0	0
B	0.250	14%	0.61	2.03	0.31	6.09	6.09	6.09	6.09
C	0.000	0%	0.33	2.81	0.00	0	0	0	0
D	1510	86%	1.31	4.31	6.86	12.21	13.849	15.292	17.127
TOTALS	1820	100%		13.1	13.85	14.451	15.120	21.478	

EROSION CONTROL PLAN - SUPPP

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A SUPPP AND FUGITIVE DUST PLAN AND TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM RUN OFF ON SITE.
- REPAIR OF DAMAGED FACILITIES AND CLEANING OF SEDIMENT ACCUMULATION ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING NPDES PERMIT FOR THE SITE, IF NECESSARY.
- THE EROSION AND SEDIMENTATION CONTROL PLAN MUST CONFORM TO THE EROSION AND SEDIMENTATION REQUIREMENTS OF THE 2003 EPA CONSTRUCTION GENERAL PERMIT OR LOCAL STANDARDS AND CODES, WHICHEVER IS MORE STRINGENT.

DRAINAGE NARRATIVE

THE PROJECT IS THE CONSTRUCTION OF AN APPROXIMATELY 13,000 SF BUILDING ON A 122 ACRE SITE ON ALBUQUERQUE'S WEST SIDE. THE SITE IS PART OF A COMMERCIAL DEVELOPMENT LOCATED ON THE NORTHEAST CORNER OF UNSER AND CENTRAL AVE. IT WILL HAVE A LARGE ASPHALT PAVED PARKING AREA LEAVING THE REMAINING 14% OF THE SURFACE AREA TO BE LANDSCAPED. THE IMPROVED SITE WILL BE SLOPED TO DIRECT SURFACE DRAINAGE THROUGH THE EAST DRIVE PARKING LOT ENTRANCE INTO A RECENTLY CONSTRUCTED ACCESS ROAD IN THIS DEVELOPMENT. THESE DEVELOPED RUNOFF SURFACE FLOWS WILL THEN BE DIRECTED TO UNSER BLVD. EAST OF THE SITE IN THE PAVED DRIVE ENTRANCE TO THE DEVELOPMENT. ONCE IN UNSER THE EXISTING DOWNSIDE FACILITIES CONVEY THESE FLOWS VIA CURB AND GUTTER SOUTH TO DROP INLETS AND A LARGE STORM DRAIN LINE IN CENTRAL BLVD. THE STORM DRAIN LINE THEN DIRECTS STORM DRAINAGE EAST TO THE RIVER.

THERE WILL BE A NEW DECELERATION LANE CONSTRUCTED UNDER ANOTHER CONTRACT IN UNSER BLVD, ADJACENT TO THE SITE AND THE GRADES SHOWN ON THIS PLAN ARE BASED ON PRELIMINARY INFORMATION PROVIDED BY BOHANNON HUSTON INC. THE FINAL DESIGN HAS NOT BEEN APPROVED BY THE CITY OF ALBUQUERQUE AS OF APRIL 3, 2010 AND MAY REQUIRE SLIGHT GRADE ADJUSTMENT IN THE LANDSCAPE AREA WHEN DESIGN AND/OR CONSTRUCTION IS COMPLETED.

GRADING and DRAINAGE PLAN

1"=20'



UNM HOSPITAL SW MESA CLINIC

CONSULTANTS

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 6100 INDIAN SCHOOL ROAD, NE, SUITE 105
 ALBUQUERQUE, NEW MEXICO 87110
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 CONTACT: MIKE WALLA

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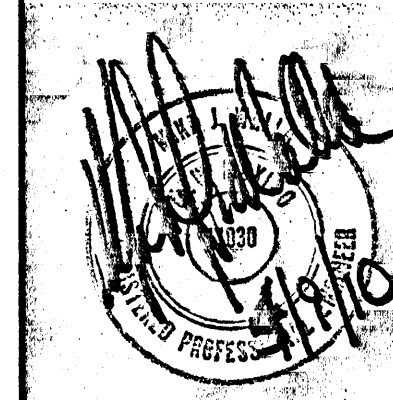
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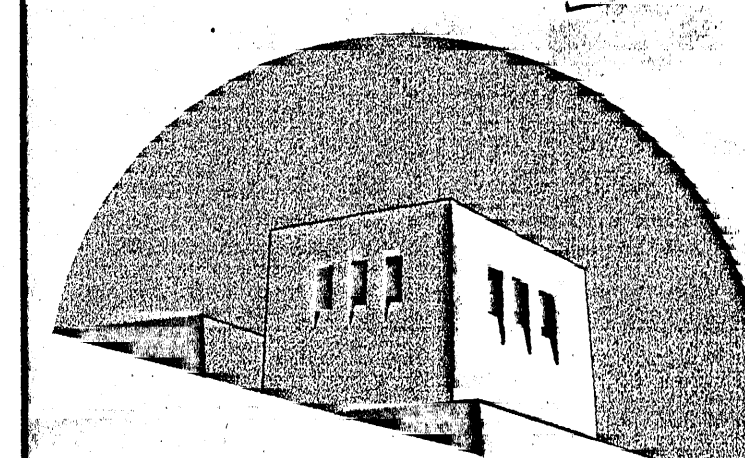
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 PHOENIX, AZ 85004
 TEL: (602) 635-7925
 CONTACT: ALEX TSUJI



RECEIVED
 NOV 02 2010
 HYDROLOGY SECTION



**UNM HOSPITAL
 SW MESA CLINIC**

301 UNM BOULEVARD NW
 ALBUQUERQUE, NEW MEXICO
 87124

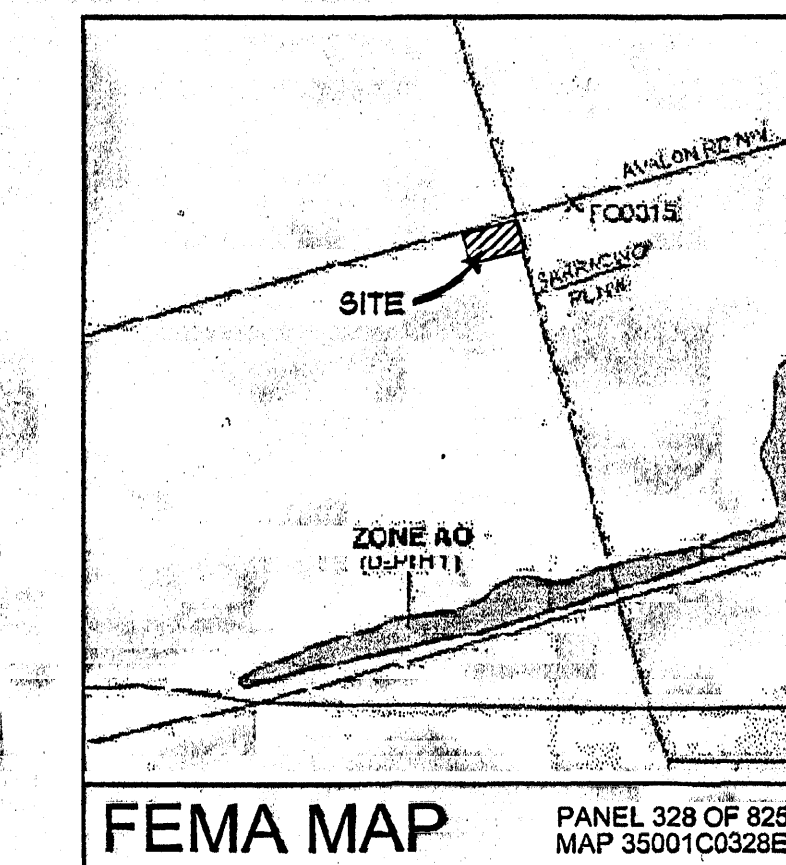
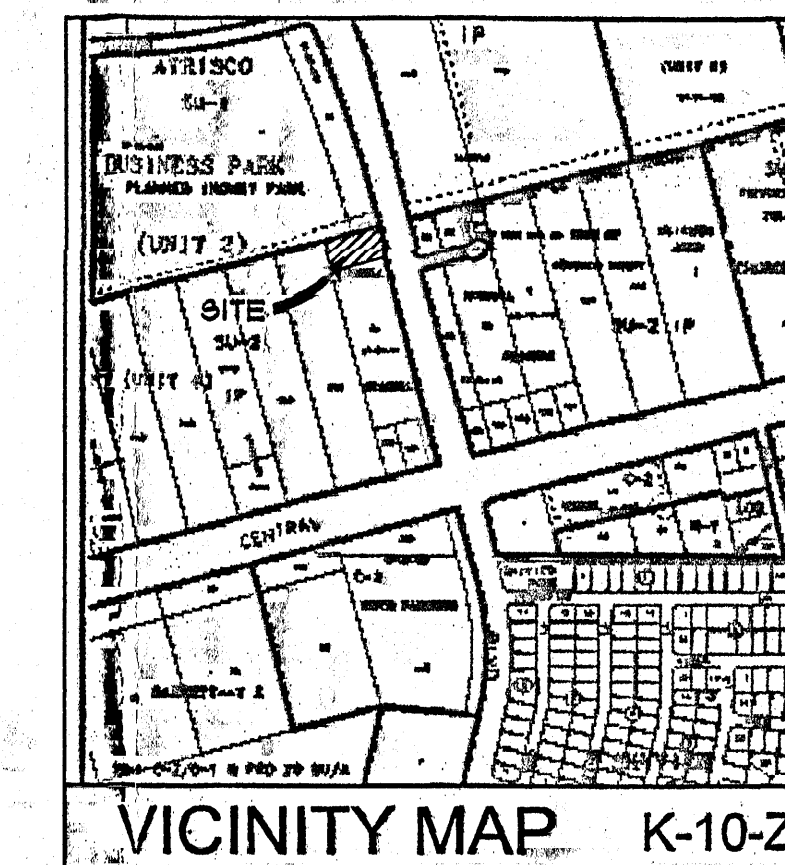
February 08, 2010

MARK	DATE	DESCRIPTION
Δ	2/19/10	APPENDIX 1
Δ	4/9/10	GRADING REVISIONS

SUBMITTAL: February 08, 2010
 PROJECT NO: 315
 CAD DWG FILE: CH1.DWG
 DRAWN BY: LEK.BZ
 CHECKED BY: MJW

SHEET TITLE
**GRADING AND DRAINAGE
 PLAN**

C-101



GENERAL NOTES

- THE PAVING CONFIGURATION SHOWN ON UNSEER AND AT THE ACCESS DRIVE IS UNDER CONSTRUCTION CURRENTLY.

KEYED NOTES

- TOP OF CURB TO MATCH TOP OF ASPHALT ELEVATION @ THIS LOCATION.
- 12% MAXIMUM SLOPE.
- NEW CURB CUT REQUIRED @ ACCESS DRIVE.
- NEW CURB AND GUTTER PER DETAILS A2/C201 AND A3/C201
- EXISTING CURB AND GUTTER.
- ASPHALT PAVING PER DETAIL A1/C201
- NEW SIDEWALK PER COA STANDARD DETAIL 2430
- CONCRETE CHANNEL PER DETAIL B1/C201
- 1'-0" WIDE SIDEWALK CULVERT PER DETAIL A4/C201
- 6" THICK, 4000 PSI, A.C. CONCRETE DRIVE PAD W/4"x6" O.C. EACH WAY
- 4" THICK, 4000 PSI, A.C. CONCRETE SIDEWALK PER DETAIL B2/C201

LEGEND

- PROPERTY LINE
- NEW BUILDING LINE
- EXISTING CONTOUR
- NEW CONTOUR
- NEW SPOT ELEVATION
- EXISTING SPOT ELEVATION
- NEW FLOW DIRECTION ARROW
- TA TOP OF ASPHALT
- TC TOP OF CONCRETE
- FG FINISHED GRADE
- NEW CONCRETE PAVING
- NEW AC PAVING
- ROOF DRAIN LOCATION
- BOG BACK OF CURB (EXISTING)
- EG EDGE OF CONCRETE (EXISTING)
- G GRADE (EXISTING)
- FL FLOW LINE
- TG TOP OF GRATE
- INV INVERT
- SWALE
- AS-BUILT ELEVATION

ENGINEERS CERTIFICATION

I, MIKE WALLA NPE 11030 OF THE FIRM WALLA ENGINEERING LTD, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 04-09-10. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY JASON D. SMITH NPE 81102. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 10-23-10 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATION OF OCCUPANCY. THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THE PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

MIKE WALLA NPE 11030
 DATE: NOVEMBER 2, 2010

DRAINAGE NARRATIVE

THE PROJECT IS THE CONSTRUCTION OF AN APPROXIMATELY 15,000 SF BUILDING ON A 1.82 ACRE SITE ON ALBUQUERQUE'S WEST SIDE. THE SITE IS PART OF A COMMERCIAL DEVELOPMENT LOCATED ON THE NORTHWEST CORNER OF UNSEER AND CENTRAL N.W. IT WILL HAVE A LARGE ASPHALT PAVED PARKING AREA LEAVING THE REMAINING 14% OF THE SURFACE AREA TO BE LANDSCAPED. THE IMPROVED SITE WILL BE DESIGNED TO DIRECT SURFACE DRAINAGE THROUGH THE EAST DRIVE PARKING LOT ENTRANCE INTO A RECENTLY CONSTRUCTED ACCESS ROAD IN THIS DEVELOPMENT. THESE DEVELOPED RUNOFF SURFACE FLOWS WILL THEN BE DIRECTED TO UNSEER BLVD. EAST OF THE SITE IN THE PAVED DRIVE ENTRANCE TO THE DEVELOPMENT. ONCE IN UNSEER THE EXISTING DOWNSLOPE FACILITIES CONVEY THESE FLOWS VIA CURBS AND GUTTER SOUTH TO DRAIN INLETS AND A LARGE STORM DRAIN LINE IN CENTRAL BLVD. THE STORM DRAIN LINE THEN DIRECTS STORM DRAINAGE EAST TO THE RIVER.

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LEGAL DESCRIPTION

LOT 1, UNM HOSPITALS CLINIC, ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT FILED IN THE OFFICE OF COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON JANUARY 22, 2009, BOOK 2029C, PAGE 18, DOCUMENT 2009006044

BENCHMARK (TBM)

ACS CONTROL STATION 1-K10, LOCATED AT THE INTERSECTION OF CENTRAL AVENUE NW AND UNSEER BOULEVARD NW, ON TOP OF CURB @ TRAFFIC ISLAND, ELEVATION = 5291.854 (NAVD 1988)

HYDROLOGY CALCULATIONS

PRECIPITATION ZONE 1		DESIGN STORM (IN)		EXISTING CONDITIONS		PROPOSED CONDITIONS	
LAND	AREA	AREA	F6	Q	Q	Q	Q
TRIBUT	(ACRE)	(ACRE)	(CF/AC)	(CF/AC)	(CF)	(CF)	(CF)
A	0.000	0%	0.44	129	0.000	0	0
B	0.250	14%	0.61	2.03	2.51	6.08	6.08
C	0.000	0%	0.53	2.81	0.000	0	0
D	0.000	0%	1.31	4.31	0.000	0	0
TOTALS	1.820	100%			3.69	4.426	4.426
LAND	AREA	AREA	F6	Q	Q	Q	Q
TRIBUT	(ACRE)	(ACRE)	(CF/AC)	(CF/AC)	(CF)	(CF)	(CF)
A	0.000	0%	0.44	129	0.000	0	0
B	0.250	14%	0.61	2.03	2.51	6.08	6.08
C	0.000	0%	0.53	2.81	0.000	0	0
D	1.570	86%	1.31	4.31	6.58	11.221	13.849
TOTALS	1.820	100%			1.31	18.35	19,700

EROSION CONTROL PLAN - SWPPP

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A SWPPP AND FUGITIVE DUST PLAN AND TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM RUN OFF ON SITE.
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