ENGINEER'S DRAINAGE CERTIFICATION FOR PERMANENT CERTIFICATE OF OCCUPANCY – PHASE 2

INTRODUCTION AND EXECUTIVE SUMMARY

THE EDWARD GONZALES ELEMENTARY SCHOOL WAS CONSTRUCTED IN TWO PHASES. PHASE 1 WAS APPROVED FOR BUILDING PERMIT AND CERTIFIED BY THE ENGINEER OF RECORD FOR CERTIFICATE OF OCCUPANCY. PHASE 2 WAS SUBMITTED FOR BUILDING PERMIT APPROVAL AND INITIALLY REJECTED BECAUSE THE PHASE 2 PLAN DID NOT SHOW THE EXISTING PORTABLE CLASSROOMS INSTALLED TO ADDRESS OVER-CROWDING. ADDRESSING THE PORTABLES WAS BEYOND THE SCOPE OF WORK OF THE ENGINEER OF RECORD SO THE SCHOOL DISTRICT RETAINED HIGH MESA CONSULTING GROUP (HMCG) TO PREPARE A MASTER DRAINAGE PLAN (MDP). THE MDP ADDRESSED THE PORTABLES AS WELL AS DISCLOSED SEVERAL DRAINAGE DEFICIENCIES THROUGHOUT THE SITE. THE MDP WAS FOLLOWED BY A DRAINAGE IMPROVEMENTS PROJECT THAT ADDRESSED THE DEFICIENCIES AND MITIGATED THE DRAINAGE FROM THE PORTABLES. UPON COMPLETION, HMCG PREPARED AND SUBMITTED AN ENGINEER'S DRAINAGE CERTIFICATION THAT INCLUDED UPSIZING AND REROUTING THE PHASE 2 PRIVATE STORM DRAIN. THE CERTIFICATION WAS SUBMITTED IN SUPPORT OF THE PHASE 2 CERTIFICATE OF OCCUPANCY AND THEREFORE ALLOWED FOR THE ISSUANCE OF A TEMPORARY CERTIFICATE OF OCCUPANCY. THE SUBMISSION OF A FINAL ENGINEER'S CERTIFICATION FOR PERMANENT CERTIFICATE OF OCCUPANCY WAS NEVER COMPLETED BY THE ENGINEER OF RECORD. IN RESPONSE, THE SCHOOL DISTRICT RETAINED THE SERVICES OF HMCG TO COMPILE THE CERTIFICATION HISTORY OF THE PROJECT AND TO PREPARE AND SUBMIT THIS ENGINEER'S DRAINAGE CERTIFICATION FOR PERMANENT CERTIFICATE OF OCCUPANCY FOR THE PHASE 2 PORTION OF THE SCHOOL.

BACKGROUND DOCUMENTS

THE FOLLOWING DRAINAGE SUBMITTALS, PLANS, RECORDS AND OTHER RELATED DOCUMENTS WERE REVIEWED IN THE PREPARATION OF THE FINAL ENGINEER'S DRAINAGE CERTIFICATION FOR PERMANENT CERTIFICATE OF OCCUPANCY FOR THE PHASE 2 PORTION OF THE PROJECT:

A. GRADING AND DRAINAGE PLAN FOR EDWARD GONZALES ELEMENTARY SCHOOL (FORMERLY E-SCHOOL) PREPARED BY WALKER ENGINEERS, NMPE 12105, DATED 7/14/2003, FOR THE PHASE 1 BUILDING PERMIT. AN ENGINEER'S DRAINAGE CERTIFICATION DATED 7/30/2004 BY THE ENGINEER OF RECORD WAS SUBSEQUENTLY SUBMITTED AND APPROVED FOR PERMANENT CERTIFICATE OF OCCUPANCY. THE ABOVE SUBMITTALS ADDRESSED THE FOLLOWING IMPROVEMENTS TO THE SITE:

1. PHASE 1 BUILDING CONSTRUCTION
2. PHASE 1 PARKING LOT IMPROVEMENTS

B. GRADING AND DRAINAGE PLAN FOR EDWARD GONZALES ELEMENTARY SCHOOL (FORMERLY E-SCHOOL) PREPARED BY WALKER ENGINEERING, NMPE 12105, DATED 10-19-06, FOR THE PHASE 2 BUILDING PERMIT. THE ABOVE SUBMITTALS ADDRESS THE FOLLOWING IMPROVEMENTS TO THE SITE:

3. PHASE 2 BUILDING CONSTRUCTION
4. PHASE 2 DRAINAGE IMPROVEMENTS

C. MASTER DRAINAGE PLAN (MDP) FOR EDWARD GONZALES ELEMENTARY SCHOOL PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN AND ASSOCIATES, INC), NMPE 8547, DATED 10-26-2006. THE MDP IDENTIFIED THE FOLLOWING AREAS OF THE PHASE 1 CONSTRUCTION REQUIRING CORRECTION AND/OR FURTHER IMPROVEMENTS:

5. EXISTING SIDEWALK CULVERTS REQUIRED REMOVAL AND REPLACEMENT
6. ROOF DRAIN CAUSING SIGNIFICANT EROSION AND UNDERMINING THE SIDEWALK
7. SEDIMENT ERODING OVER THE PUBLIC SIDEWALK FROM BASIN A
8. NO STRUCTURAL SPILLWAY PROVIDED FROM THE POND IN BASIN C
9. EROSION FROM THE DEVELOPED PORTION OF BASIN D CAUSING SEDIMENT DEPOSITION IN 86TH STREET SW
10. ROOF DRAIN CAUSING EROSION AND PONDING ADJACENT TO THE MAIN BUILDING
11. FOUR INCH PIPE INADEQUATE TO CONVEY FLOW INTERCEPTED AND CAUSING WATER TO POOL NEXT TO THE BUILDING

D. DRAINAGE IMPROVEMENTS FOR EDWARD GONZALES ELEMENTARY SCHOOL PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN AND ASSOCIATES, INC), NMPE 8547, DATED 01-07-2007 AND REVISED 04-2008 TO UPSIZE THE PHASE 2 PRIVATE STORM DRAIN. AN ENGINEERS DRAINAGE CERTIFICATION DATED 12-08-2008 WAS SUBSEQUENTLY SUBMITTED AND APPROVED FOR SUBSTANTIAL COMPLIANCE. THE ABOVE SUBMITTALS ADDRESSED THE FOLLOWING PHASE 1 DEFICIENCIES REFERENCED IN THE 2006 MDP AND DOCUMENTED THE PHASE 2 PRIVATE STORM DRAIN REVISIONS:

12. REMOVE AND REPLACE LIBRARY STORM DRAIN AND INLETS PREVIOUSLY IDENTIFIED AS BEING UNDERSIZED
13. SIDEWALK CULVERT REPAIRS PREVIOUSLY CITED
14. CONSTRUCT ROOF DRAIN RUNDOWN TO MITIGATE EROSION
15. REGRADE BASIN C DETENTION POND AND ADD EMERGENCY SPILLWAY
16. CONSTRUCT PORTABLE PARK DRAINAGE IMPROVEMENTS SUBSEQUENTLY REMOVED AND AREA PROVIDED WITH TEMPORARY STABILIZATION.
17. CONSTRUCT PHASE 2 PRIVATE STORM DRAIN REVISIONS BY CHANGE ORDER

E. EROSION CONTROL PLAN FOR EDWARD GONZALES ELEMENTARY SCHOOL PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN AND ASSOCIATES, INC), NMPE 8547, DATED 06-01-2011 WITH A SUBSEQUENT ENGINEERS DRAINAGE CERTIFICATION DATED 07-28-2011. THE ABOVE PLAN WAS AN UPDATE TO THE PREVIOUSLY APPROVED (2007) AND CERTIFIED (2008) PLAN, AND ADDRESSED THE FOLLOWING:

18. COMPLETION OF DEFERRED LANDSCAPING TO STABILIZE BARE SOIL AREAS ON THE WEST AND SOUTH PORTIONS OF THE CAMPUS.

F. DRAINAGE CERTIFICATION FOR PHASE 2 TCL IMPROVEMENTS, HELEN CORDERO ELEMENTARY SCHOOL PREPARED BY HIGH MESA CONSULTING GROUP, NMPE 8547, DATED 12-14-2010. THIS CERTIFICATION

19. DOCUMENTED THE COMPLETION OF THE BUS LOOP, BUS/SERVICE DRIVE AND BASIN D-3 PARKING LOT THAT ABUT THE EDWARD GONZALES SITE

G. EDWARD GONZALES ELEMENTARY SCHOOL TRACK AND FIELD IMPROVEMENTS PREPARED BY HIGH MESA CONSULTING GROUP, NMPE 8547, DATED 11-02-2010. THIS PLAN PROVIDES FOR THE FINAL STABILIZATION OF THE AREA ONCE OCCUPIED BY PORTABLE CLASSROOMS AND IS PRESENTLY THE BARE SOIL AREA BETWEEN THE BUS LOOP, BUS/SERVICE DRIVE AND BASIN D-3 PARKING LOT REFERENCED ABOVE AND THE NORTH SIDE OF THE EDWARD GONZALES ELEMENTARY SCHOOL. THIS PROJECT IS DELAYED DUE TO LACK OF FUNDING, HOWEVER DOES NOT IMPACT THE PHASE 2 OCCUPANCY OF THE BUILDING AND POST-DATES THE PHASE 2 GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT

CERTIFICATION

I, JEFFREY G. MORTENSEN, NMPE 8547, OF THE FIRM HIGH MESA CONSULTING GROUP, HEREBY CERTIFY THAT THE PHASE 2 PORTION OF THIS PROJECT HAS BEEN GRADED AND DRAINED IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 10-19-06. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS EITHER BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION FROM PREVIOUSLY SUBMITTED PLANS AND/OR CERTIFICATIONS, OR AS AS-BUILT SURVEY DATA OBTAINED UNDER THE DIRECT SUPERVISION OF JOSEPH M. SOLOMON, JR, NMPS 15075, OF THE FIRM HIGH MESA CONSULTING GROUP, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THIS CERTIFICATION DOES NOT ADDRESS ADA COMPLIANCE WHICH IS BEYOND THE SCOPE OF GRADING AND DRAINAGE. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

JEFFREY G. MORTENSEN, NMPE 8547

10-04-2012

DATE

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

EXISTING LEGEND

AP	ASPHALT PATH
ASPH	ASPHALT
C	COMMUNICATION
C&G	CURB AND GUTTER
C/PM	COMMUNICATION BY PAINT MARK
CHC	CONCRETE HEADER CURB
CL	CENTERLINE
CLD	CENTERLINE OF DOOR
CLDD	CENTERLINE OF DOUBLE DOOR
CLF	CHAIN LINK FENCE
CLG	CHAIN LINK GATE
CMR	COMMUNICATION RISER
CO	SANITARY SEWER CLEANOUT
CONC	CONCRETE
COP	CURB OPENING
CP	CONCRETE PAD
CPB	COMMUNICATION PULLBOX
CRD	CONCRETE RUNDOWN
CTC	CONCRETE TRASH CAN
CV	COMMUNICATION VAULT
CW	CONCRETE WALL
DBL	DOUBLE
DCLG	DOUBLE CHAIN LINK GATE
DSCO	DOUBLE STORM DRAIN CLEANOUT
E/PM	ELECTRIC LINE BY PAINT MARK
EA	EDGE OF ASPHALT
EC	ELECTRIC CONDUIT
ECB	ELECTRIC CABINET
ENCL	ENCLOSURE
EP	ELECTRIC PANEL
ET	ELECTRIC TRANSFORMER
FH	FIRE HYDRANT
FH/C	FIRE HYDRANT IN CONCRETE
FL	FLOWLINE
G/PM	GAS LINE BY PAINT MARK
GM	GAS METER
GS	GAS SERVICE
HCP	HANDICAP PARKING
HCS	HANDICAP SIGN
HDPE	HIGH DENSITY POLYETHYLENE PIPE
INV	INVERT ELEVATION
MC	METAL COLUMN
MCL	METER CAN WITH WATER LINE
MHR	METAL HANDRAIL
ML	METAL LANDING
MLP	METAL LIGHT POLE
MR	METAL RAMP
MS	METAL STEPS
MSL	METAL STEPS WITH LANDING
OHC(1)	OVERHEAD COMMUNICATION LINE (# OF LINES)
OHE(1)	OVERHEAD ELECTRIC LINE (# OF LINES)
OHM	OVERHEAD ELECTRIC MAST
PLT	PLANTER
PP	PORTABLE PIER
PS	PARKING STRIPE
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
SCO	STORM DRAIN CLEANOUT
SCO/C	STORM DRAIN CLEANOUT IN CONCRETE
SD	STORM DRAIN
SDP	SERVICE DROP POLE
SGP	STEEL GUARD POST
SSVB	SMALL SPRINKLER VALVE BOX
SVB	SPRINKLER VALVE BOX
SVC	SERVICE
SW	SIDEWALK
SWC	SIDEWALK CULVERT
TA	TOP OF ASPHALT
TC	TOP OF CURB
TCO	TOP OF CONCRETE
TG	TOP OF GRATE
TS	TRAFFIC SIGN
TW	TOP OF WALL
TYP	TYPICAL
VC	VALLEY GUTTER
WCR	WHEELCHAIR RAMP
WIF	WROUGHT IRON FENCE
WL	WATER LINE
WLR	WATER LINE TO ROOF
WMB	WATER METER BOX
WVB	WATER VALVE BOX
WVB/C	WATER VALVE BOX IN CONCRETE
*	PAINTED UTILITY MARKER
	DECIDUOUS TREE
	SHRUB

DESIGN LEGEND

	PROPOSED DRAINAGE BASIN BOUNDARY
	EXISTING DRAINAGE BASIN BOUNDARY
19.96	VERIFIED BY ENGINEER
✓	VERIFIED BY ENGINEER
14.1	VERIFIED BY AS BUILT SURVEY
✓	VERIFIED BY AS BUILT SURVEY
	PHSASE 2 BUILDING

LEGAL DESCRIPTION

A PORTION OF TRACT A, EDWARD GONZALES ELEMENTARY SCHOOL, ALBUQUERQUE, NEW MEXICO.

BOUNDARY TABLE

CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
C1	30.00'	47.06'	42.38'	S 38°46'53" W	89°52'14"
C2	30.00'	47.19'	42.47'	N 51°13'07" W	90°07'46"

EASEMENT KEYED NOTES

EASEMENTS

1. PUBLIC UTILITY EASEMENT GRANTED BY 2004C-153.
2. 20' CITY OF ALBUQUERQUE PUBLIC WATER LINE EASEMENT GRANTED BY PLAT 2004C-153.
5. P.N.M. ELECTRIC AND QWEST EASEMENT GRANTED BY DOCUMENT FILED 12-19-2003, BOOK A70, PAGE 4577, DOC. #2003225060
6. P.N.M. GAS SERVICES EASEMENT GRANTED BY DOCUMENT FILED 03-23-2004, BOOK A74, 7763, DOC. #2004037874
7. 20' ABCWUA PUBLIC WATERLINE EASEMENT GRANTED BY PLAT 2008C-145

EASEMENTS – OFFSITE

4. 10' PUBLIC UTILITY EASEMENT GRANTED BY PLAT 2002C-357

EXISTING UTILITY KEYED NOTES

X. EDWARD GONZALES ELEMENTARY SCHOOL
PHASE 2 STORM DRAIN, DRAINAGE IMPROVEMENTS
SHEET 11 OF 11
RECORD DRAWING
JEFF MORTENSEN & ASSOCIATES
DATED: 12/08/2008

Y. EDWARD GONZALES ELEMENTARY SCHOOL
PUBLIC WATER LINE EXTENSIONS
SHEETS 1-9
RECORD DRAWINGS
JEFF MORTENSEN & ASSOCIATES
DATED: 06/30/2004

Z. SOUTHWEST ELEMENTARY SCHOOL
PUBLIC INFRASTRUCTURE
SHEETS 1-19
RECORD DRAWINGS
HIGH MESA CONSULTING GROUP
DATED: 05/22/2009

BENCHMARKS

PROJECT BENCHMARK

ACS 3 1/4" ALUMINUM CAP STAMPED "21-L9", SET FLUSH ON THE TOP OF CONCRETE CURB IN THE WEST MEDIAN NOSE AT THE INTERSECTION OF TOWER ROAD S.W. AND 86TH STREET S.W. STATION IS LOCATED 4.9 FEET NORTH OF CENTERLINE OF TOWER ROAD S.W. AND 40.7 FEET WEST OF 86TH STREET S.W.
ELEVATION = 5103.681 FEET (NGVD 1929)

TEMPORARY BENCHMARK (T.B.M.) #2

A SCRIBED "+" IN CONCRETE PAD, AS SHOWN ON THIS SHEET.
ELEVATION = 5113.08 FEET (NGVD 1929)

TEMPORARY BENCHMARK (T.B.M.) #3

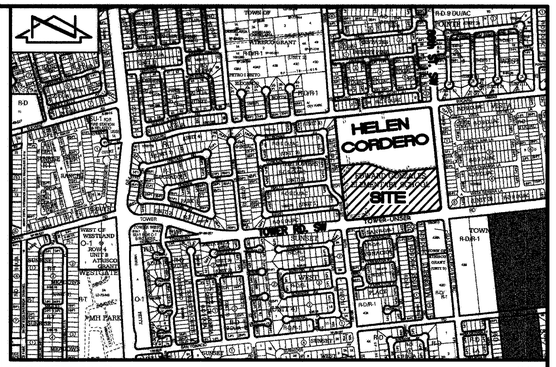
A MAG NAIL SET IN ASPHALT, AS SHOWN ON THIS SHEET.
ELEVATION = 5117.58 FEET (NGVD 1929)

TEMPORARY BENCHMARK (T.B.M.) #4

A CHISELED "□" IN TOP OF CURB AS SHOWN ON THIS SHEET.
ELEVATION = 5126.39 FEET (NGVD 1929)

DESIGN SURVEY NOTE

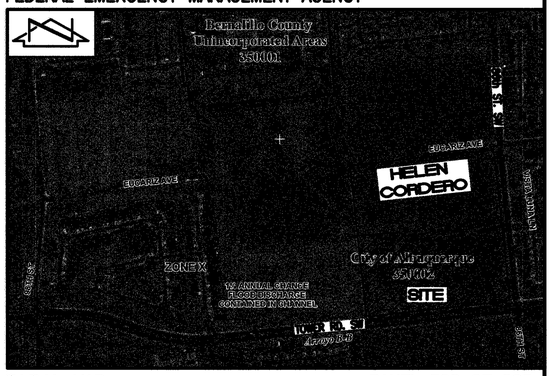
THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED ON THIS PLAN IS BASED ON THE BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 15075, DATED 08/31/2010 (2008.204.8); TOPOGRAPHIC INFORMATION IS BASED ON A PARTIAL TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 15075, DATED 08/31/2010, (2008.204.8) COMBINED WITH INFORMATION FROM RECORD DRAWINGS FOR SOUTHWEST ELEMENTARY SCHOOL PUBLIC INFRASTRUCTURE (CPN 709183), NMPE 8547, 09-01-2008 (2006.180.7).



VICINITY MAP
SCALE: 1" = 750'

L-09

FEDERAL EMERGENCY MANAGEMENT AGENCY



F.I.R.M. MAP
SCALE: 1" = 500'

PANEL 328 OF 825
DATED 9/26/2008

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COMPOSITE DRAINAGE PLAN
PHASE 1 AND 2
EDWARD GONZALES ELEMENTARY SCHOOL

DESIGNED BY J.G.M.
DRAWN BY E.J.S.
APPROVED BY J.G.M.

NO.	DATE	BY	REVISIONS

JOB NO. 2006.181.1
DATE 06-2012
SHEET 1 OF 2

File Path:P:\DATA\2006.181.1\ENG\ | Plot Date: 10-04-2012
File Name:61811_SH1.DWG | Plot Time: 07:31 am