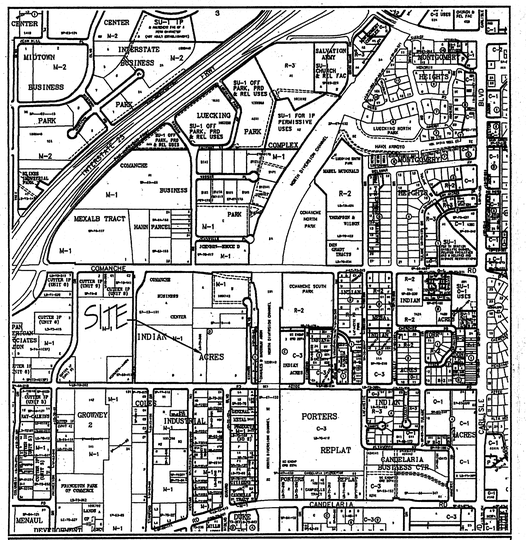
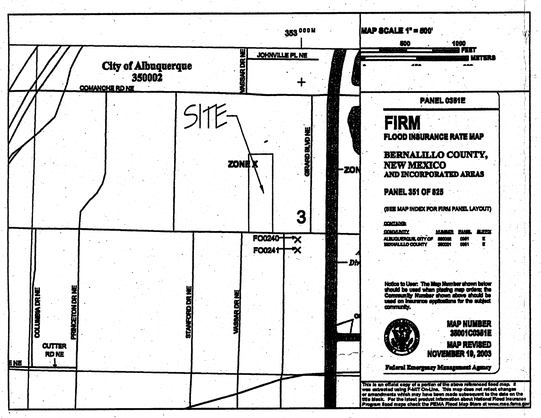




APPROVAL	NAME	DATE	TITLE: 2417 AZTEC RD. N.E.
INSPECTOR			MAP NUMBER: G16

LEGAL DESCRIPTION

TRACT "A"
AND
THE E.155' OF THE W.310' OF THE E.620' OF THE N.630' OF THE S.640' OF BLOCK "D" INDIAN ACRES
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

GRADING/PAVING PLAN

THE FOLLOWING ITEMS CONCERNING TRACT "A" AND THE E155' OF THE W310' OF THE E620' OF THE N630' OF THE S640' OF BLOCK 'D" INDIAN ACRES, BERNALILLO COUNTY, ALBUQUERQUE, NEW MEXICO (2417 AZTEC ROAD N.E.) ARE CONTAINED HEREON:

EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 4.4836 ACRES MORE OR LESS AND IS LOCATED NORTHEAST OF THE INTERSECTION OF AZTEC ROAD N.E AND VASSAR ROAD N.E... THE SITE IN ITS PRESENT CONDITION HAS A 36,701 SQ FT. OFFICE/WAREHOUSE BUILDING ALONG WITH PAVED PARKING AND DOCK AREAS. THE REMAINING PORTION OF THE SITE IS DIRT WITH ELECTRICAL SUPPLIES AND PIPE. ACCORDING TO THE FLOOD INSURANCE RATE MAPS, PANEL 0351E, REVISED NOVEMBER 19, 2003; THIS SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/PAVING PLAN, THE PROJECT WILL CONSIST OF REMOVING AND REPAVING THE FROM AREA OF THE BUILDING AND PAVING THE EXISTING DIRT AREA. THE SITE HAS BEEN DIVIDED INTO THREE BASINS. BASIN "A" WILL DRAIN SOUTHERLY TOWARDS AZTC RD. N.E. THROUGH THE EXISTING CURB CUT. BASIN "B" WILL DRAIN NORTHERLY INTO A PROPOSED PONDING AREA WHICH WILL THEN BE PUMPED THROUGH A 3" PVC PIE OUT TO AZTEC RD N.E. BASIN "c" IS COMPRISED OF A PORTION OF THE EXISTING BUILDING AND THE DOCK AREA WHICH WILL BE DRAINED BY A PUMP SUMP VIA A 2.5" PVC PIPE OUT INTO AZTEC RD. N.E. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40-ACRES AND SMALLER BASINS, AS SET FORTH FOR THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME II, DESIGN CRITERIA DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME GENERATED.

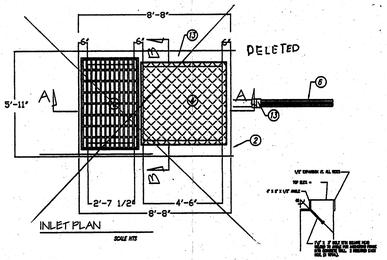
NOTE:

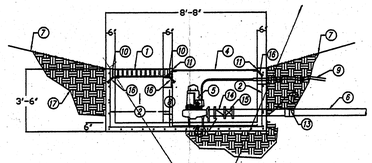
1. NO OFF-SITE FLOWS ENTER THE SITE FROM ANY DIRECTION. PROPERTY TO THE EAST OF THE SITE (HOSANNA FAITH COMES BY HEARING 2421 AZTEC RD N.E.) DRAINS ALL THEIR RUN-OFF TO THE NORTH AND INTO A POND LOCATED AT THE NORTHWEST CORNER OF THEIR PROPERTY.
2. FREE DISCHARGE FROM THIS AREA IS ALLOWED BECAUSE OF THE NEW CITY OF ALBUQUERQUE MENAUL RETENTION POND WHICH WAS BUILT NORTH OF THE INTERSECTION OF EDITH BLVD. AND MENAUL ON THE WEST SIDE OF EDITH BLVD. N.E.

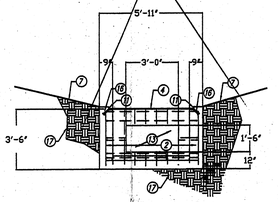
KEYED NOTES:

1. GRATE PER COA STD DWG. 2220 (SEE DRAINAGE PLAN FOR GRATE ELEVATION)
2. #8 RE-BAR(SCH 40) 6" EACH-WAY
3. 6" 4000# CONCRETE PAD & WALLS
4. 1/4" DIAMOND STEEL PLATE
5. SUMP PUMP (FLYGT MODEL DF3068, IMP 474, 3-PHASE,115 VOLTS O.A.E.)
6. 3.0" PVC(SCH 40) FORCE MAIN- SEE DRAINAGE PLAN FOR POINT OF DISCHARGE
7. SLOPE GRADE TO INLET GRATE
8. OPENING TO ALLOW FLOW CENTER ON PARTITION
9. FLOAT CONTROL & POWER SUPPLY CONDUIT SEAL WATER TIGHT
10. 4"x3" x 1/4" ANGLE
11. 1"x2"x1/4" ANGEL
12. 2.5"GALV PIPE
13. TRANSITION COUPLING (FLEXIBLE)DRESSER O.A.E.
14. CHECK VALVE
15. GATE VALVE
16. 1/2"x3" BOLT WITH SQ HEAD WELDED TO ANGLE(1 ON ALL SIDES)
17. COMPACTED EARTH

DELETED







1. CONCRETE FOR NEW INLET STRUCTURE SHALL BE 4000#-28-DAY STRENGTH. REBAR SHALL BE GRADE 40 BARS.
2. ALL SMALL DIAMETER PVC PIPE SHALL BE SDR 26 PIPE.

PUMP DATA:
STATIC LIFT: 0 FT. TO 2.2 FT. (POND LEVEL VARIATION)
TOTAL EQUIVALENT FEET OF DISCHARGE PIPE = 864'
DISCHARGE RATE= 60 gpm (EVACUATION IN 21.0± hrs)
SYSTEM HEAD LOSS = 17.0'
TOTAL DYNAMIC LOSS = 17.0' TO 19.2'
PUMP SELETION TO OPERATE BETWEEN 60 gpm AND 65 gpm (APPROX)

ENGINEER CERTIFICATION FOR (G16-D027)

I EUFRACIO SEBAY NMPE # 6790, HEREBY CERTIFY THAT THE PROJECT HAS BEEN GRADED AND WILL DRAIN IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 03/14/2007. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST ON MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR RELEASE OF GRADING/PAVING APPROVAL.

1. THE EASTERN PORTION OF BASIN A AND ALL OF BASIN B HAVE BEEN CHANGED TO ASPHALT MILLINGS
2. PROPOSED INLET WITH PUMP SYSTEM HAS BEEN CHANGED TO A SINGLE "D" INLET (DWG. 2206) WHICH NOW CONNECTS TO A MANHOLE LIFT STATION (SEE PLAN DRAWING)
3. LIFT STATION IS DRAINED VIA A 3" STEEL PIPE ATTACHED ALONG THE WEST SIDE OF BUILDING. DOCK SUMP IS ALSO ATTACHED TO THE 3" STEEL PIPE (SEE PLAN DRAWING).
4. THE 3" STEEL PIPE NOW DRAINS FROM THE SOUTHWEST CORNER OF THE BUILDING UNDERGROUND TO THE SOUTHWEST CORNER OF THE PROPERTY AND THROUGH A DRAIN LINE THRU THE CURB (SO19 DWG. 2235). SEE PLAN DRAWING

AS-BUILT DESIGNATION TC 97.65 ~~FL 97.50~~ OR 97.50✓

EUFRACIO SEBAY NEW MEXICO 6790 REGISTERED PROFESSIONAL ENGINEER

PROJECT AREA = 1.44748 ac.
AZTEC LLC BASIN A
ZONE 2
PRECIPITATION: 360 = 2.35 in.
1440 = 2.75 in.
10day = 3.95 in.

	EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in.	1.56 cfs/ac.
TREATMENT B	0.78 in.	2.28 cfs/ac.
TREATMENT C	1.13 in.	3.14 cfs/ac.
TREATMENT D	2.12 in.	4.70 cfs/ac.

	EXISTING CONDITIONS: AREA	PROPOSED CONDITIONS: AREA
TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0 ac.
TREATMENT C	0.70576 ac.	0 ac.
TREATMENT D	0.74172 ac.	1.4478 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.71)+(2.12)x(0.74)/ 1.45 ac. = 1.64 in.
V100-360 =(1.64)x(1.45)/ 12 = 0.197496 ac-ft = 8603 cf

EXISTING PEAK DISCHARGE:

Q100 =(1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(0.71)+(4.70)x(0.74)= 5.70 CFS

PROPOSED EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.00)+(2.12)x(1.45)/ 1.45 ac. = 2.12 in.
V100-360 =(2.12)x(1.45)/ 12.0 = 0.255778 ac-ft = 11142 CF

V100-1440 =(0.26)x(1.45)x(2.75 - 2.35)/ 12 = 0.304038 ac-ft = 13244 CF

V100-10day =(0.26)x(1.45)x(3.95 - 2.35)/ 12 = 0.448818 ac-ft = 19551 CF

PROPOSED PEAK DISCHARGE:

Q100 =(1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(0.00)+(4.70)x(1.45)= 6.80 CFS

INCREASE 6.80 CFS - 5.70 CFS = 1.10 CFS

PROJECT AREA = 2.46755 ac.
AZTEC LLC BASIN B
ZONE 2
PRECIPITATION: 360 = 2.35 in.
1440 = 2.75 in.
10day = 3.95 in.

	EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in.	1.56 cfs/ac.
TREATMENT B	0.78 in.	2.28 cfs/ac.
TREATMENT C	1.13 in.	3.14 cfs/ac.
TREATMENT D	2.12 in.	4.70 cfs/ac.

	EXISTING CONDITIONS: AREA	PROPOSED CONDITIONS: AREA
TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0 ac.
TREATMENT C	1.67577 ac.	0.185 ac.
TREATMENT D	0.79178 ac.	2.28255 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(1.68)+(2.12)x(0.79)/ 2.47 ac. = 1.45 in.
V100-360 =(1.45)x(2.47)/ 12 = 0.297683 ac-ft = 12967 CF

EXISTING PEAK DISCHARGE:

Q100 =(1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(1.68)+(4.70)x(0.79)= 8.98 CFS

PROPOSED EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.19)+(2.12)x(2.28)/ 2.47 ac. = 2.05 in.
V100-360 =(2.05)x(2.47)/ 12.0 = 0.420671 ac-ft = 18324 CF

V100-1440 =(0.42)x(2.28)x(2.75 - 2.35)/ 12 = 0.496756 ac-ft = 21639 CF

V100-10day =(0.42)x(2.28)x(3.95 - 2.35)/ 12 = 0.725011 ac-ft = 31581 CF

PROPOSED PEAK DISCHARGE:

Q100 =(1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(0.19)+(4.70)x(2.28)= 11.31 CFS

INCREASE 11.31 CFS - 8.98 CFS = 2.33 CFS

PROJECT AREA = 0.61429 ac.
AZTEC LLC BASIN C
ZONE 2
PRECIPITATION: 360 = 2.35 in.
1440 = 2.75 in.
10day = 3.95 in.

	EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in.	1.56 cfs/ac.
TREATMENT B	0.78 in.	2.28 cfs/ac.
TREATMENT C	1.13 in.	3.14 cfs/ac.
TREATMENT D	2.12 in.	4.70 cfs/ac.

	EXISTING CONDITIONS: AREA	PROPOSED CONDITIONS: AREA
TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0 ac.
TREATMENT C	0.05079 ac.	0.05079 ac.
TREATMENT D	0.5635 ac.	0.5635 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.05)+(2.12)x(0.56)/ 0.61 ac. = 2.04 in.
V100-360 =(2.04)x(0.61)/ 12 = 0.104334 ac-ft = 4545 CF

EXISTING PEAK DISCHARGE:

Q100 =(1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(0.05)+(4.70)x(0.56)= 2.81 CFS

PROPOSED EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.05)+(2.12)x(0.56)/ 0.61 ac. = 2.04 in.
V100-360 =(2.04)x(0.61)/ 12.0 = 0.104334 ac-ft = 4545 CF

V100-1440 =(0.10)x(0.56)x(2.75 - 2.35)/ 12 = 0.123118 ac-ft = 5363 CF

V100-10day =(0.10)x(0.56)x(3.95 - 2.35)/ 12 = 0.179468 ac-ft = 7818 CF

PROPOSED PEAK DISCHARGE:

Q100 =(1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(0.05)+(4.70)x(0.56)= 2.81 CFS

NO CHANGE

RECEIVED
JUL 22 2011
HYDROLOGY SECTION

EUFRACIO SEBAY NEW MEXICO 6790 REGISTERED PROFESSIONAL ENGINEER

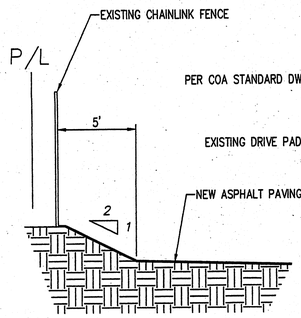
JOB NO:	XXXXXX
DATE:	MARCH 2007
REVISIONS	
3/29/2007	1

Sheet Title: GRADING & PAVING PLAN
Drawn By: HTH & BJM Checked By: ES

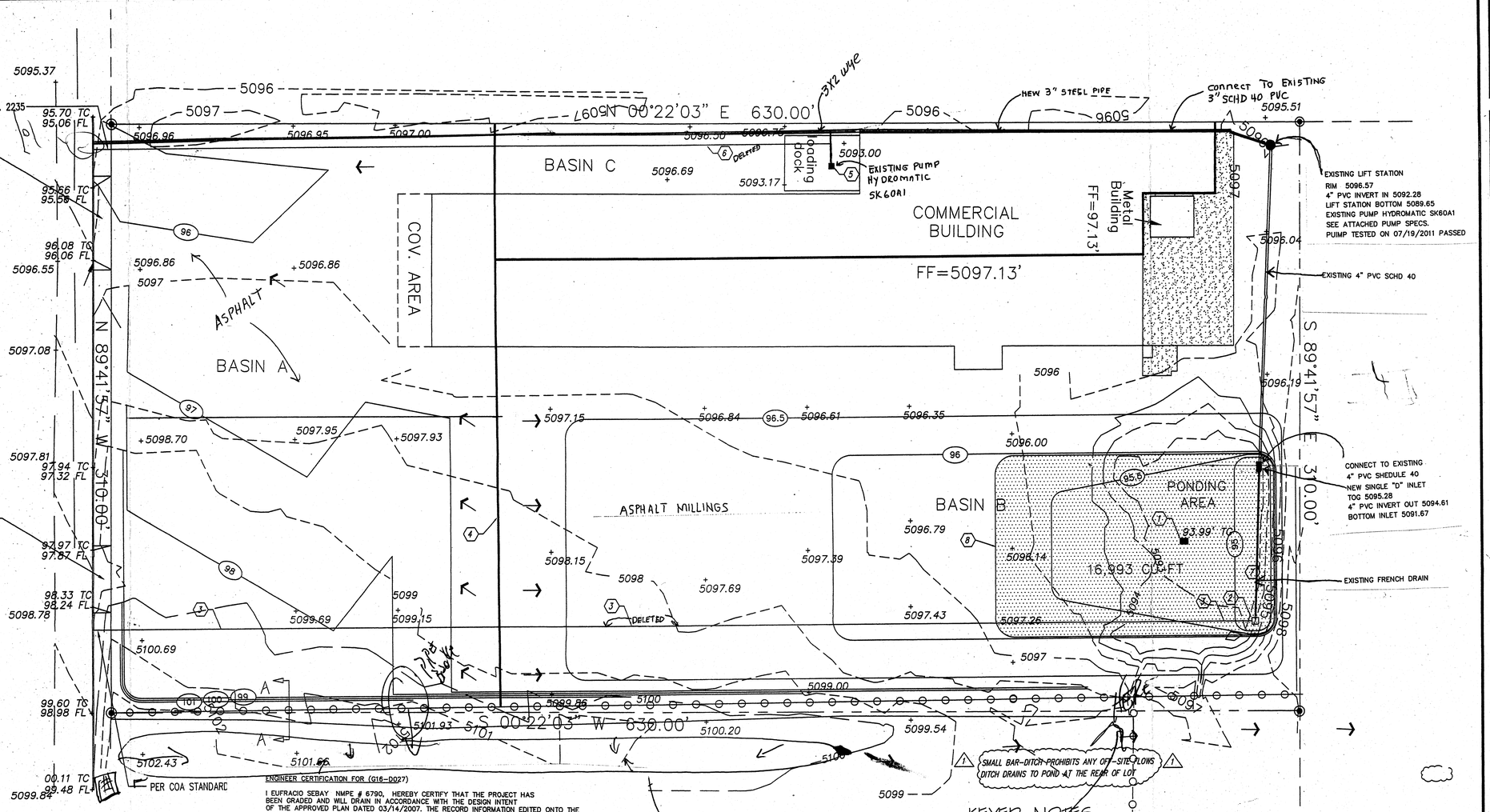
Job Title: AZTEC LLC WAREHOUSE/OFFICE
2417 AZTEC DRIVE N.E.
ALBUQUERQUE, NEW MEXICO

SHEET NO. 1 OF 2

GP



X-SECTION A-A
NTS



POND CALCULATIONS:

CONTOUR	AREA SQ FT	DEPTH FT	VOLUME CU FT
95.6	19580		
95.5	9010	0.1	14310
95	1690	0.5	2683
TOTAL POND VOLUME			18,993
TOTAL REQUIRED			18,324

BENCHMARK:

ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE STATION No. "NDC 17-" HAVING AN ELEVATION OF 5106.80 NAVD29 DATUM

LOCATED 60' NORTH OF AZTEC BETWEEN BIKE TRAIL & CONCRETE CHANNEL (NORTH DIVERSION)

T.B.M. : EXISTING FINISH FLOOR WITH ELEVATION: 5097.13

NOTE TO CONTRACTOR:

1. An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
2. All work detailed in this plan to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Standard Specification for Public Works Construction through Update 7, Amendmet 1.
3. Two working days prior to any excavation, contractor must contact line locating Services New Mexico ONe Call (260-1990) for locating existing sub- surface utilities.
4. Prior to construction, the contractor shall excavate and verify the horizonal and vertical location of all potential constructions; Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay to the subject project.
5. Backfill compaction shall be according to commercial use or soils report(s) recommendations.
6. All work on this project shall be performed in accordance with applicable Federal, State and local laws, rules and regulations concerning construction safety and health.
7. Maintenance of this facilities shall be the responsibility of the owner of the property it serves

EROSION CONTROL MEASURES

1. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUN-OFF DURING CONSTRUCTION, HE SHALL ASSURE THAT THE FOLLOWING MEASURES ARE
   - A) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY TEMPORARY BERMS, DIKES, SWALES, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUN-OFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTY.
   - B) ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUN-OFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.
2. THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY OR ALL SEDIMENT WITHIN THE PUBLIC STREETS THAT HAVE BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

ENGINEER CERTIFICATION FOR (G16-D027)

I EUFRACIO SEBAY NMPE # 6790, HEREBY CERTIFY THAT THE PROJECT HAS BEEN GRADED AND WILL DRAIN IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 03/14/2007. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST ON MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR RELEASE OF GRADING/PAVING APPROVAL.

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4. THE 3" STEEL PIPE NOW DRAINS FROM THE SOUTHWEST CORNER OF THE BUILDING UNDERGROUND TO THE SOUTHWEST CORNER OF THE PROPERTY AND THROUGH A DRAIN LINE THRU THE CURB (SO19 DWG. 2235). SEE PLAN DRAWING

AS-BUILT DESIGNATION TC 97.65 ~~FL 97.50~~ OR 97.50✓

EUFRACIO SEBAY NEW MEXICO 6790 REGISTERED PROFESSIONAL ENGINEER

PROPOSED SPOT ELEVATION 97.0 / 97.50 TC

PROPERTY LINE

EASEMENT LINE

FLOW DIRECTION

EXISTING SPOT ELEVATION 5097

DOWN SPOUT

KEYED NOTES:

1. EXISTING CATCH BASIN TO BE ABANDONED AND REMOVED
2. ~~NEW CATCH BASIN (SEE SHEET 2 THIS PLAN) GRATE ELEVATION 5094.75~~ DELETED
3. ~~3" PVC,SCH 40 FORCE MAIN TO RIGHT-OF-WAY~~ DELETED
4. HIGH POINT
5. EXISTING SUMP PUMP(GRATE ELEV 93.00) REPLACE WITH NEW PUMP
6. ~~2" PVC SCH 40 FORCE MAIN TO RIGHT-OF-WAY~~ DELETED
7. SLOPE GRADE TO INLET GRATE
8. HIGH WATER MARK 5095.6
9. -
10. -
11. -
12. -
13. -
14. -
15. -
16. -
17. -

NORTH

5' 0 10' 20' 30' 40'

GRADING & PAVING PLAN

Scale 1"=30'-0"

RECEIVED
JUL 22 2011
HYDROLOGY SECTION

EUFRACIO SEBAY NEW MEXICO 6790 REGISTERED PROFESSIONAL ENGINEER 3/29/07

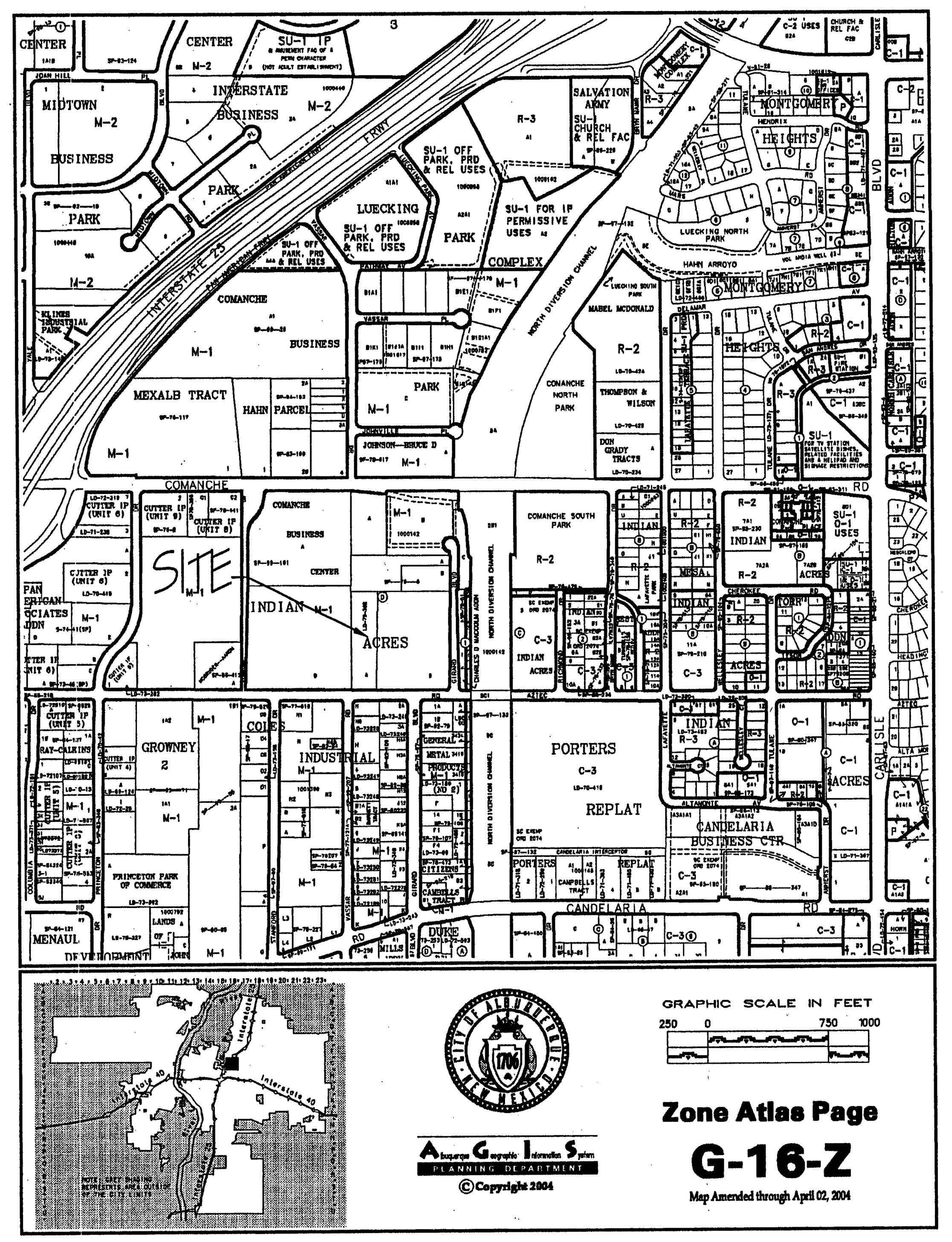
JOB NO: XXXXXX
DATE: MARCH 2007
REVISIONS
3/29/2007 1

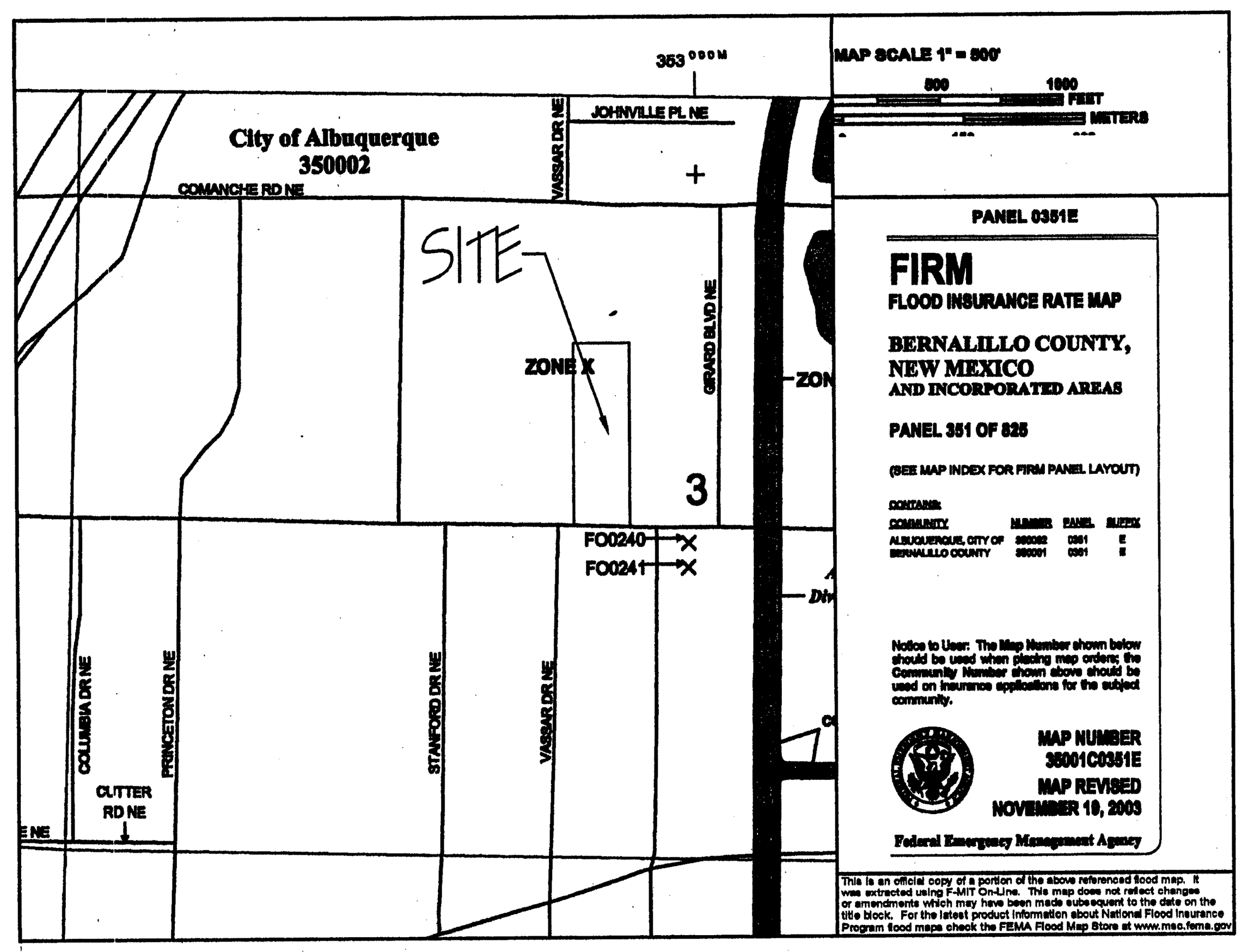
Sheet Title: GRADING & PAVING PLAN
Drawn By: HTH & BJM Checked By: ES

Job Title: AZTEC LLC WAREHOUSE/OFFICE
2417 AZTEC DRIVE N.E.
ALBUQUERQUE, NEW MEXICO

SHEET NO. 2 OF 2

GP





APPROVAL	NAME	DATE	TITLE: 2417 AZTEC RD. N.E.
INSPECTOR			MAP NUMBER: G16

LEGAL DESCRIPTION

TRACT "A"
AND
THE E.155' OF THE W.310' OF THE E.620'
OF THE N.630' OF THE S.640' OF BLOCK "D"
INDIAN ACRES
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

GRADING/PAVING PLAN

THE FOLLOWING ITEMS CONCERNING TRACT "A" AND THE E155' OF THE W310' OF THE E620' OF THE N630' OF THE S640' OF BLOCK 'D" INDIAN ACRES, BERNALILLO COUNTY, ALBUQUERQUE, NEW MEXICO (2417 AZTEC ROAD N.E.) ARE CONTAINED HEREON:

EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 4.4836 ACRES MORE OR LESS AND IS LOCATED NORTHEAST OF THE INTERSECTION OF AZTEC ROAD N.E AND VASSAR ROAD N.E... THE SITE IN ITS PRESENT CONDITION HAS A 36,701 SQ FT. OFFICE/WAREHOUSE BUILDING ALONG WITH PAVED PARKING AND DOCK AREAS. THE REMAINING PORTION OF THE SITE IS DIRT WITH ELECTRICAL SUPPLIES AND PIPE. ACCORDING TO THE FLOOD INSURANCE RATE MAPS, PANEL 0351E, REVISED NOVEMBER 19, 2003; THIS SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/PAVING PLAN, THE PROJECT WILL CONSIST OF REMOVING AND REPAVING THE FROM AREA OF THE BUILDING AND PAVING THE EXISTING DIRT AREA. THE SITE HAS BEEN DIVIDED INTO THREE BASINS. BASIN "A" WILL DRAIN SOUTHERLY TOWARDS AZTC RD. N.E. THROUGH THE EXISTING CURB CUT. BASIN "B" WILL DRAIN NORTHERLY INTO A PROPOSED PONDING AREA WHICH WILL THEN BE PUMPED THROUGH A 3" PVC PIE OUT TO AZTEC RD N.E. BASIN "C" IS COMPRISED OF A PORTION OF THE EXISTING BUILDING AND THE DOCK AREA WHICH WILL BE DRAINED BY A PUMP SUMP VIA A 2.5" PVC PIPE OUT INTO AZTEC RD. N.E. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40-ACRES AND SMALLER BASINS, AS SET FORTH FOR THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME II, DESIGN CRITERIA DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME GENERATED.

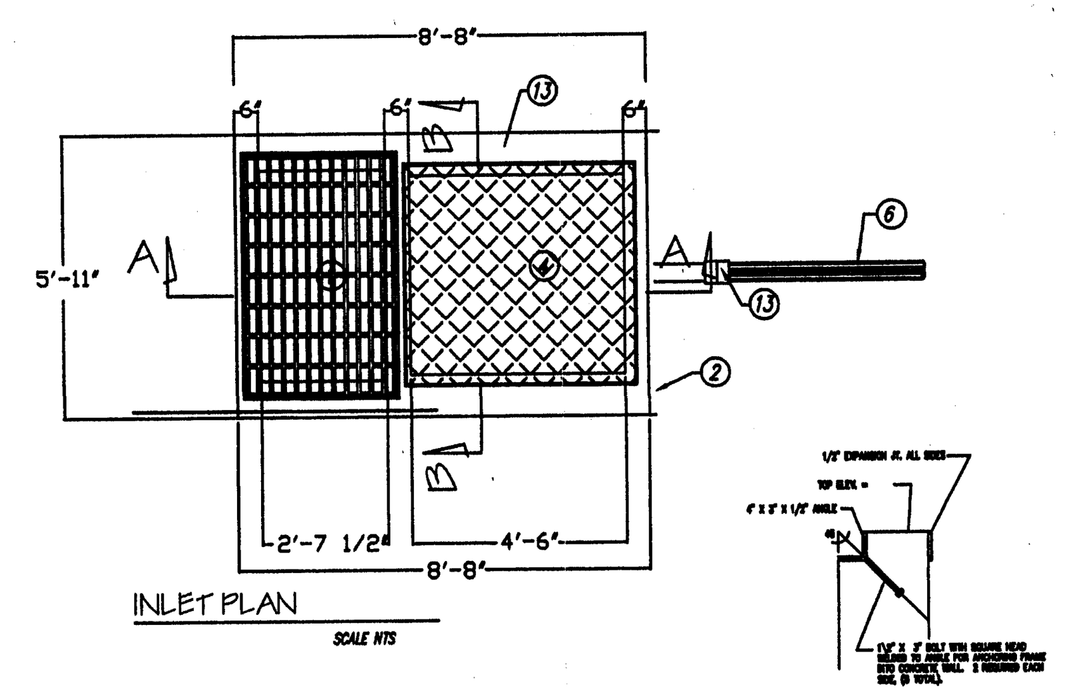
NOTE:

△1 1. NO OFF-SITE FLOWS ENTER THE SITE FROM ANY DIRECTION. PROPERTY TO THE EAST OF THE SITE (HOSANNA FAITH COMES BY HEARING 2421 AZTEC RD N.E.) DRAINS ALL THEIR RUN-OFF TO THE NORTH AND INTO A POND LOCATED AT THE NORTHWEST CORNER OF THEIR PROPERTY.

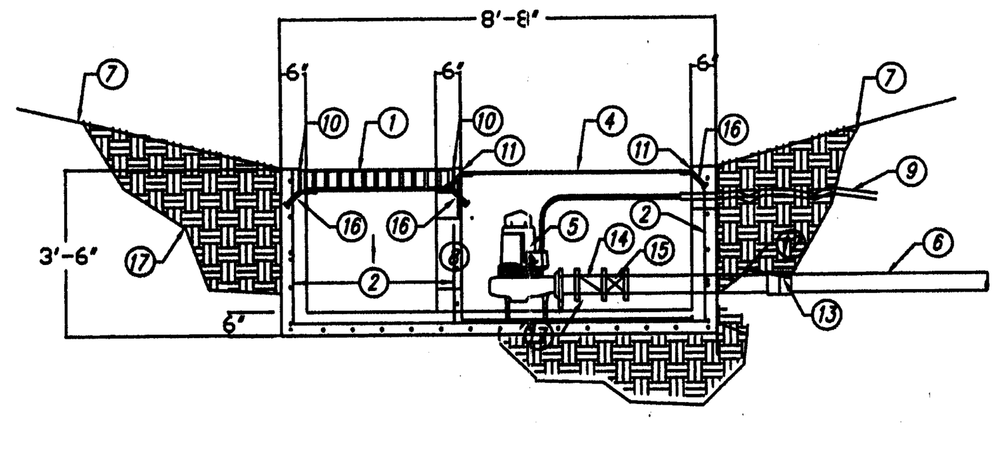
2. FREE DISCHARGE FROM THIS AREA IS ALLOWED BECAUSE OF THE NEW CITY OF ALBUQUERQUE MENAUL RETENTION POND WHICH WAS BUILT NORTH OF THE INTERSECTION OF EDITH BLVD. AND MENAUL ON THE WEST SIDE OF EDITH BLVD. N.E.

KEYED NOTES:

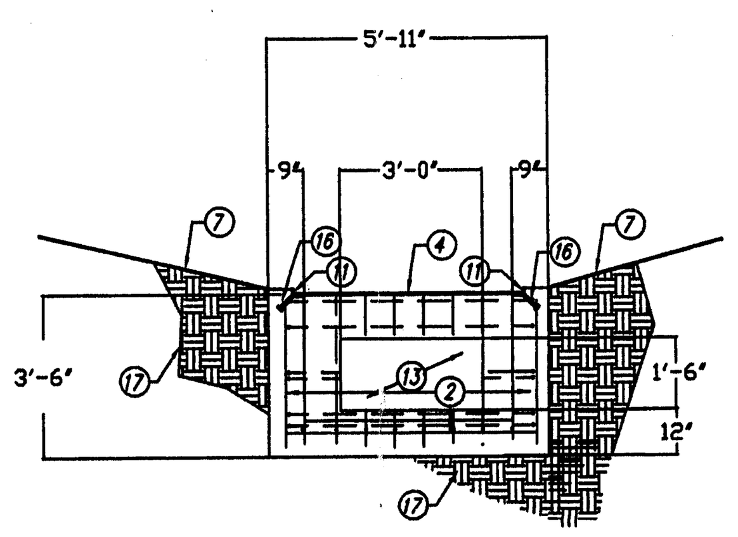
1. GRATE PER COA STD DWG. 2220 (SEE DRAINAGE PLAN FOR GRATE ELEVATION)
2. #4 RE-BAR(SCH 40) 6" EACH-WAY
3. 6" 4000# CONCRETE PAD & WALLS
4. 1/4" DIAMOND STEEL PLATE
5. SUMP PUMP (FLYGT MODEL DF3068, IMP 474, 1-PHASE,115 VOLTS O.A.E.)
6. 3.0" PVC(SCH 40) FORCE MAIN- SEE DRAINAGE PLAN FOR POINT OF DISCHARGE
7. SLOPE GRADE TO INLET GRATE
8. OPENING TO ALLOW FLOW CENTER ON PARTITION
9. FLOAT CONTROL & POWER SUPPLY CONDUIT SEAL WATER TIGHT
10. 4"x3" x 1/4" ANGLE
11. 1"x2"x1/4" ANGEL
12. 2.5"GALV PIPE
13. TRANSITION COUPLING (FLEXIBLE)DRESSER O.A.E.
14. CHECK VALVE
15. GATE VALVE
16. 1/2"x3" BOLT WITH SQ HEAD WELDED TO ANGLE(1 ON ALL SIDES)
17. COMPACTED EARTH



INLET PLAN
SCALE NTS



INLET SECTION A-A
SCALE NTS



INLET SECTION B-B
SCALE NTS

1. CONCRETE FOR NEW INLET STRUCTURE SHALL BE 4000#-28-DAY STRENGTH. REBAR SHALL BE GRADE 40 BARS.
2. ALL SMALL DIAMETER PVC PIPE SHALL BE SDR 26 PIPE.

PUMP DATA:

STATIC LIFT: 0 FT. TO 2.2 FT. (POND LEVEL VARIATION)
TOTAL EQUIVALENT FEET OF DISCHARGE PIPE = 664'
DISCHARGE RATE= 60 gpm (EVACUATION IN 21.0± hrs)
SYSTEM HEAD LOSS = 17.0'
TOTAL DYNAMIC LOSS = 17.0' TO 19.2'
PUMP SELETION TO OPERATE BETWEEN 60 gpm AND 65 gpm (APPROX)

PROJECT AREA = 1.44748 ac.
AZTEC LLC BASIN A
ZONE 2
PRECIPITATION: 360 = 2.35 in.
1440 = 2.75 in.
10day = 3.95 in.

	EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in.	1.56 cfs/ac.
TREATMENT B	0.78 in.	2.28 cfs/ac.
TREATMENT C	1.13 in.	3.14 cfs/ac.
TREATMENT D	2.12 in.	4.70 cfs/ac.

	EXISTING CONDITIONS: AREA	PROPOSED CONDITIONS: AREA
TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0 ac.
TREATMENT C	0.70576 ac.	0 ac.
TREATMENT D	0.74172 ac.	1.4478 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.71)+(2.12)x(0.74)/ 1.45 ac.
= 1.64 in.
V100-360 =(1.64)x(1.45)/ 12 = 0.197496 ac-ft = 8603 cf

EXISTING PEAK DISCHARGE:

Q100 =(1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(0.71)+(4.70)x(0.74)= 5.70 CFS

PROPOSED EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.00)+(2.12)x(1.45)/ 1.45 ac.
= 2.12 in.
V100-360 =(2.12)x(1.45)/ 12.0 = 0.255778 ac-ft = 11142 CF

V100-1440 =(0.26)+(1.45)x(2.75 - 2.35)/ 12 = 0.304038 ac-ft = 13244 CF

V100-10day =(0.26)+(1.45)x(3.95 - 2.35)/ 12 = 0.448818 ac-ft = 19551 CF

PROPOSED PEAK DISCHARGE:

Q100 =(1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(0.00)+(4.70)x(1.45)= 6.80 CFS

INCREASE 6.80 CFS - 5.70 CFS = 1.10 CFS

PROJECT AREA = 2.46755 ac.
AZTEC LLC BASIN B
ZONE 2
PRECIPITATION: 360 = 2.35 in.
1440 = 2.75 in.
10day = 3.95 in.

	EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in.	1.56 cfs/ac.
TREATMENT B	0.78 in.	2.28 cfs/ac.
TREATMENT C	1.13 in.	3.14 cfs/ac.
TREATMENT D	2.12 in.	4.70 cfs/ac.

	EXISTING CONDITIONS: AREA	PROPOSED CONDITIONS: AREA
TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0 ac.
TREATMENT C	1.67577 ac.	0.185 ac.
TREATMENT D	0.79178 ac.	2.28255 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(1.68)+(2.12)x(0.79)/ 2.47 ac.
= 1.45 in.
V100-360 =(1.45)x(2.47)/ 12 = 0.297683 ac-ft = 12967 CF

EXISTING PEAK DISCHARGE:

Q100 =(1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(1.68)+(4.70)x(0.79)= 8.98 CFS

PROPOSED EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.19)+(2.12)x(2.28)/ 2.47 ac.
= 2.05 in.
V100-360 =(2.05)x(2.47)/ 12.0 = 0.420671 ac-ft = 18324 CF

V100-1440 =(0.42)+(2.28)x(2.75 - 2.35)/ 12 = 0.496756 ac-ft = 21639 CF

V100-10day =(0.42)+(2.28)x(3.95 - 2.35)/ 12 = 0.725011 ac-ft = 31581 CF

PROPOSED PEAK DISCHARGE:

Q100 =(1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(0.19)+(4.70)x(2.28)= 11.31 CFS

INCREASE 11.31 CFS - 8.98 CFS = 2.33 CFS

PROJECT AREA = 0.61429 ac.
AZTEC LLC BASIN C
ZONE 2
PRECIPITATION: 360 = 2.35 in.
1440 = 2.75 in.
10day = 3.95 in.

	EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in.	1.56 cfs/ac.
TREATMENT B	0.78 in.	2.28 cfs/ac.
TREATMENT C	1.13 in.	3.14 cfs/ac.
TREATMENT D	2.12 in.	4.70 cfs/ac.

	EXISTING CONDITIONS: AREA	PROPOSED CONDITIONS: AREA
TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0 ac.
TREATMENT C	0.05079 ac.	0.05079 ac.
TREATMENT D	0.5635 ac.	0.5635 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.05)+(2.12)x(0.56)/ 0.61 ac.
= 2.04 in.
V100-360 =(2.04)x(0.61)/ 12 = 0.104334 ac-ft = 4545 CF

EXISTING PEAK DISCHARGE:

Q100 =(1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(0.05)+(4.70)x(0.56)= 2.81 CFS

PROPOSED EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.05)+(2.12)x(0.56)/ 0.61 ac.
= 2.04 in.
V100-360 =(2.04)x(0.61)/ 12.0 = 0.104334 ac-ft = 4545 CF

V100-1440 =(0.10)+(0.56)x(2.75 - 2.35)/ 12 = 0.123118 ac-ft = 5363 CF

V100-10day =(0.10)+(0.56)x(3.95 - 2.35)/ 12 = 0.179468 ac-ft = 7818 CF

PROPOSED PEAK DISCHARGE:

Q100 =(1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(0.05)+(4.70)x(0.56)= 2.81 CFS

NO CHANGE

RECEIVED
APR 1 2007
HYDROLOGY SECTION

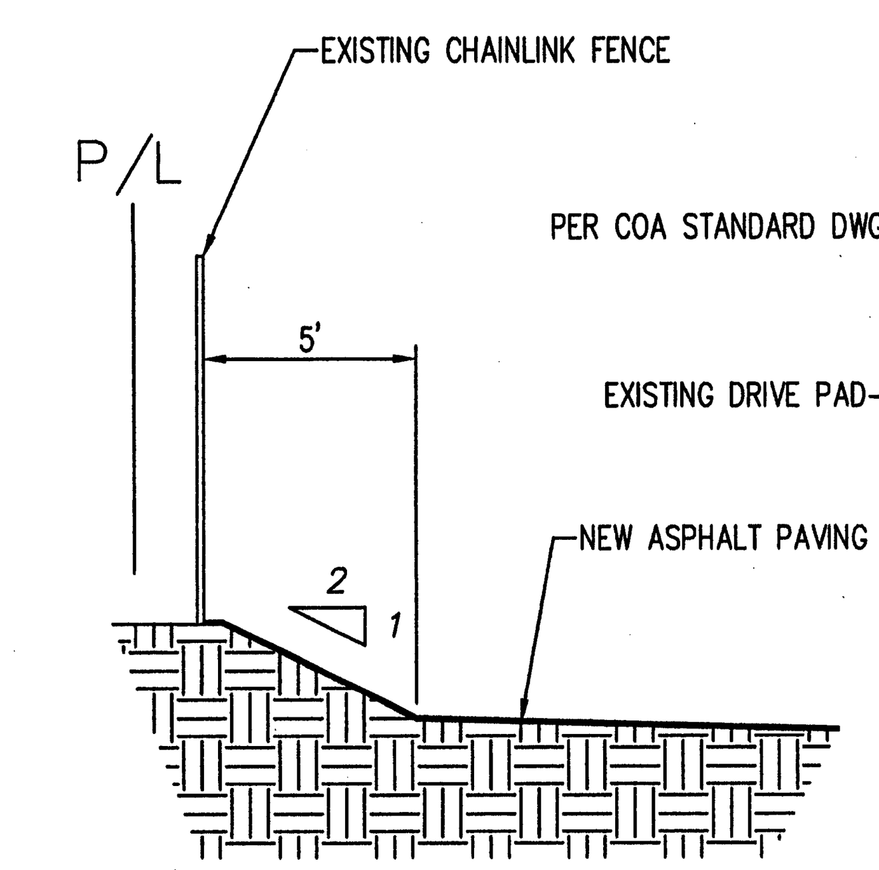
REGISTERED PROFESSIONAL ENGINEER 6799 3/29/07

JOB NO:	XXXXXX
DATE:	MARCH 2007
REVISIONS	
	3/29/2007 △1

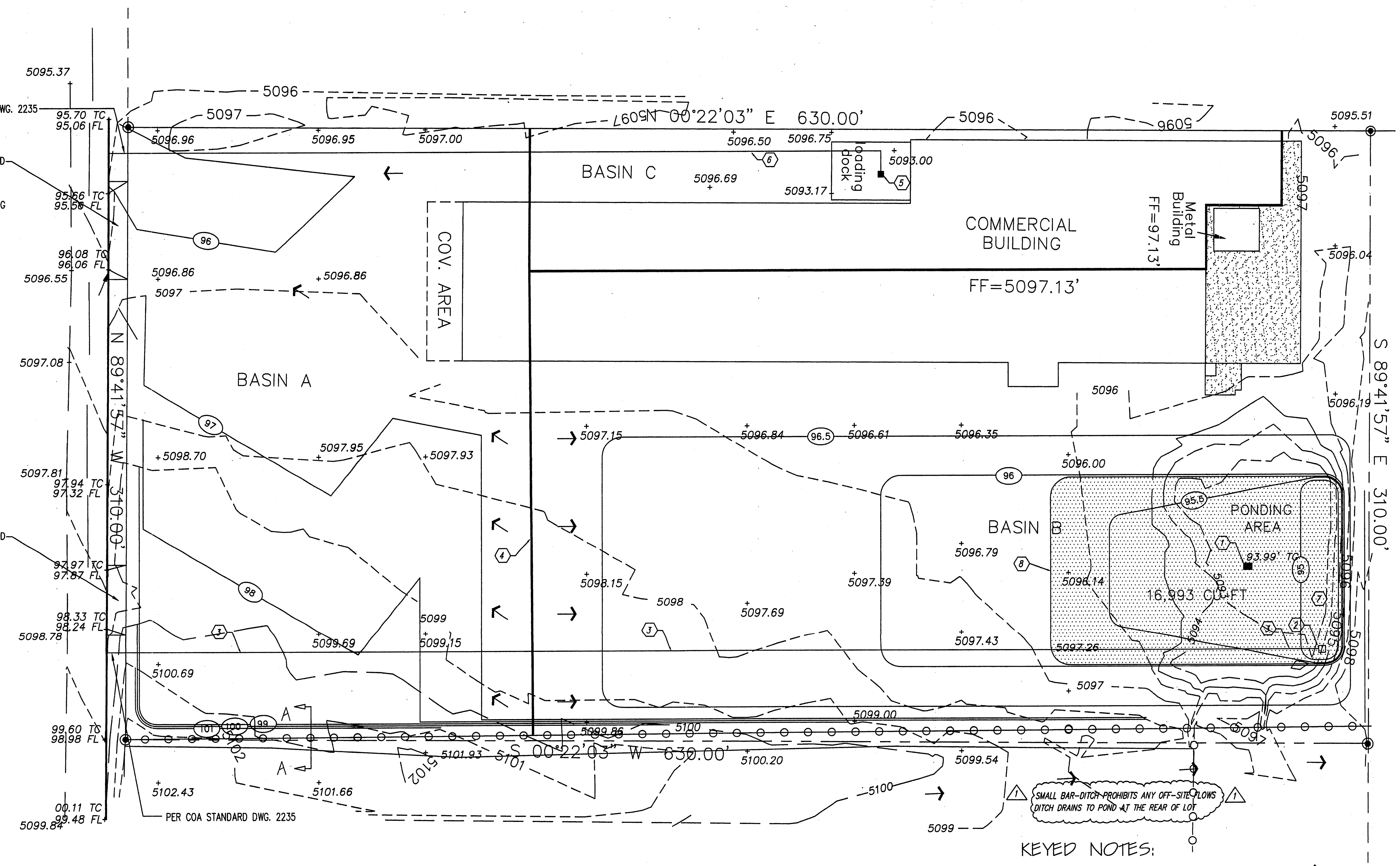
Sheet Title
GRADING & PAVING PLAN
Drawn By: HTH & BJM Checked By: ES

Job Title
AZTEC LLC WAREHOUSE/OFFICE
2417 AZTEC DRIVE N.E.
ALBUQUERQUE, NEW MEXICO

SHEET NO. 1 OF 2
GD



X-SECTION A-A
NTS



POND CALCULATIONS:

CONTOUR	AREA SQ FT	DEPTH FT	VOLUME CU FT
95.6	19580		
95.5	9010	0.1	14310
95	1690	0.5	2683

TOTAL POND VOLUME 18,993
TOTAL REQUIRED 18,324

BENCHMARK:

ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE STATION No. "NDC 17-1A"
HAVING AN ELEVATION OF 5106.80 NAVD29 DATUM
LOCATED 60' NORTH OF AZTEC BETWEEN BIKE TRAIL & CONCRETE CHANNEL
(NORTH DIVERSION)

T.B.M. : EXISTING FINISH FLOOR WITH ELEVATION: 5097.13

NOTE TO CONTRACTOR:

1. An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
2. All work detailed in this plan to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Standard Specification for Public Works Construction through Update 7, Amendmet 1.
3. Two working days prior to any excavation, contractor must contact line locating Services New Mexico ONe Call (260-1990) for locating existing sub- surface utilities.
4. Prior to construction, the contractor shall excavate and verify the horizonal and vertical location of all potential constructions; Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay to the subject project.
5. Backfill compaction shall be according to commercial use or soils report(s) recommendations.
6. All work on this project shall be performed in accordance with applicable Federal, State and local laws, rules and regulations concerning construction safety and health.
7. Maintenance of this facilities shall be the responsibility of the owner of the property it serves

EROSION CONTROL MEASURES

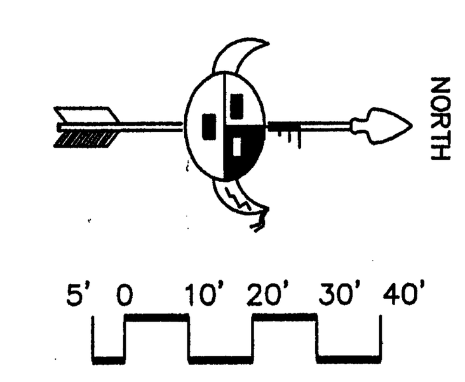
1. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUN-OFF DURING CONSTRUCTION, HE SHALL ASSURE THAT THE FOLLOWING MEASURES ARE
   A) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY TEMPORARY BERMS, DIKES, SWALES, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUN-OFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTY.
   B) ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUN-OFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.
2. THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY OR ALL SEDIMENT WITHIN THE PUBLIC STREETS THAT HAVE BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

SYMBOL LEGEND

EXISTING CONTOUR	---- 5097 ----
EXISTING SPOT ELEVATION	+97.0
DESIGN CONTOUR	(97.0)
PROPOSED SPOT ELEVATION	97.50 TC
PROPERTY LINE	
EASEMENT LINE	
FLOW DIRECTION	↖
EXISTING SPOT ELEVATION	
DOWN SPOUT	■

KEYED NOTES:

1. EXISTING CATCH BASIN TO BE ABANDONED AND REMOVED
2. NEW CATCH BASIN (SEE SHEET 2 THIS PLAN) GRATE ELEVATION 5094.75
3. 3" PVE,SCH 40 FORCE MAIN TO RIGHT-OF- WAY
4. HIGH POINT
5. EXISTING SUMP PUMP(GRATE ELEV 93.00) REPLACE WITH NEW PUMP
6. 2" PVC SCH 40 FORCE MAIN TO RIGHT-OF WAY
7. SLOPE GRADE TO INLET GRATE
8. HIGH WATER MARK 5095.6
9. -
10. -
11. -
12. -
13. -
14. -
15. -
16. -
17. -



RECEIVED APR 1 2007 HYDROLOGY SECTION

GRADING & PAVING PLAN

Scale 1"=30'-0"

BUFRACIO SABAY, NEW MEXICO, 6799, REGISTERED PROFESSIONAL ENGINEER, 3/29/07

JOB NO:	XXXXXX
DATE:	MARCH 2007
REVISIONS	
	3/29/2007 △1

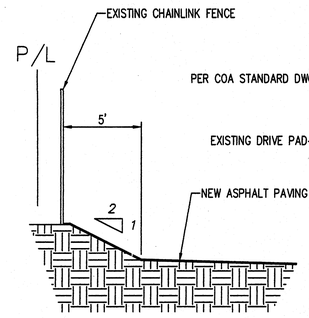
Sheet Title: GRADING & PAVING PLAN

Drawn By: HTH & BJM Checked By: ES

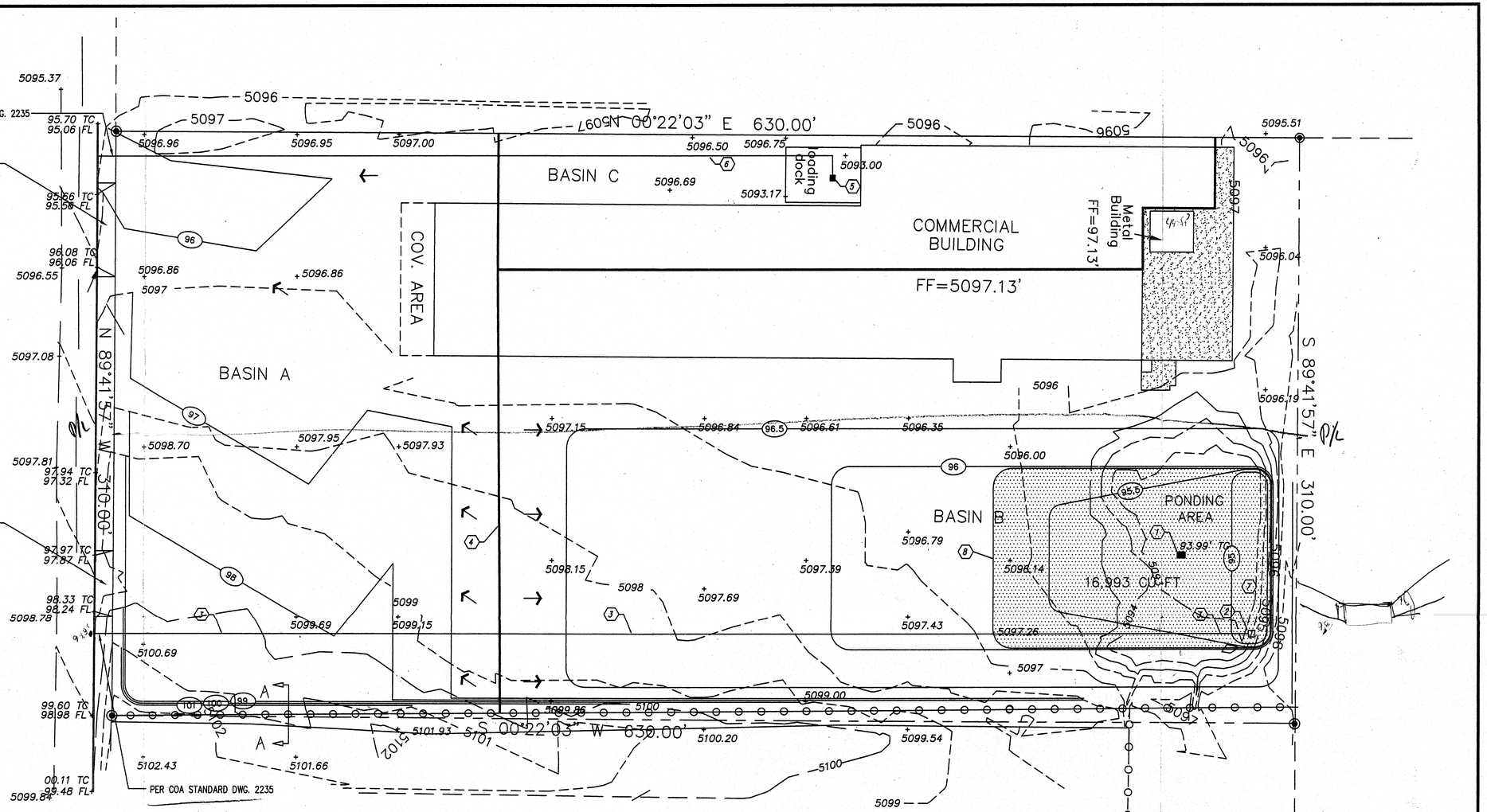
Job Title: AZTEC LLC WAREHOUSE/OFFICE
2417 AZTEC DRIVE N.E.
ALBUQUERQUE, NEW MEXICO

SHEET NO. 2 OF 2

GD



X-SECTION A-A
NTS



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95.5	9010	0.1	14310
95	1690	0.5	2683
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TOTAL REQUIRED			18,324

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T.B.M. : EXISTING FINISH FLOOR WITH ELEVATION: 5097.13

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   B) ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUN-OFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.
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SYMBOL LEGEND

- EXISTING CONTOUR — 5097
- EXISTING SPOT ELEVATION — +97.0
- DESIGN CONTOUR — 97.0
- PROPOSED SPOT ELEVATION — 97.50 TC
- PROPERTY LINE
- EASEMENT LINE
- FLOW DIRECTION
- EXISTING SPOT ELEVATION
- DOWN SPOUT ■

KEYED NOTES:

1. EXISTING CATCH BASIN TO BE ABANDONED AND REMOVED
2. NEW CATCH BASIN (SEE SHEET 2 THIS PLAN) GRATE ELEVATION 5096.00 where
3. 3" PVE,SCH 40 FORCE MAIN TO RIGHT-OF- WAY
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5. EXISTING SUMP PUMP(GRATE ELEV 93.00) REPLACE WITH NEW PUMP
6. 2" PVC SCH 40 FORCE MAIN TO RIGHT-OF WAY
7. SLOPE GRADE TO INLET GRATE
8. HIGH WATER MARK 5095.6
9. -
10. -
11. -
12. -
13. -
14. -
15. -
16. -
17. -

NORTH

5' 0 10' 20' 30' 40'

GRADING & PAVING PLAN

Scale 1"=30'-0"

RECEIVED
MAR 15 2007
HYDROLOGY SECTION

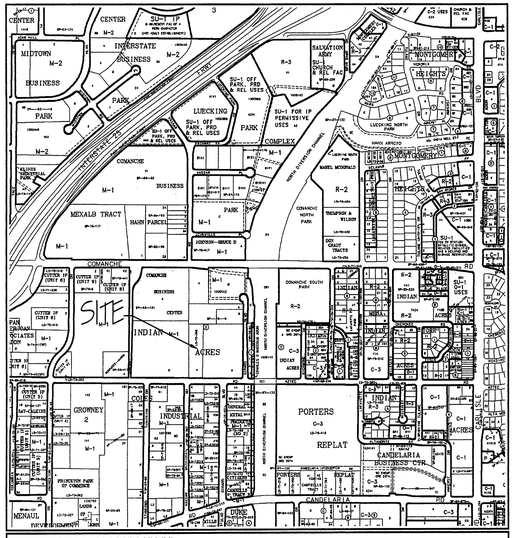
EUFRACIO SABAY
NEW MEXICO
6790
REGISTERED PROFESSIONAL ENGINEER
3/14/07

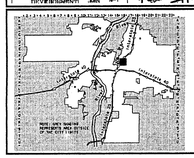
JOB NO: XXXXXX
DATE: MARCH 2007
REVISIONS

Sheet Title: GRADING & PAVING PLAN
Drawn By: HTH & BJM Checked By: ES

Job Title: AZTEC LLC WAREHOUSE/OFFICE
2417 AZTEC DRIVE N.E.
ALBUQUERQUE, NEW MEXICO

SHEET NO. 2 OF 2
GD





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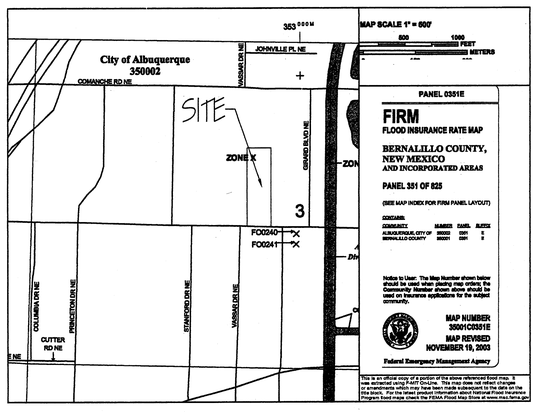
Zone Atlas Page

G-16-Z

Map Amended through April 02, 2004



APPROVAL	NAME	DATE	TITLE: 2417 AZTEC RD. N.E.
INSPECTOR			MAP NUMBER: G16

LEGAL DESCRIPTION

TRACT "A"
AND
THE E.155' OF THE W.310' OF THE E.620'
OF THE N.630' OF THE S.640' OF BLOCK "D"
INDIAN ACRES
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

GRADING/PAVING PLAN

THE FOLLOWING ITEMS CONCERNING TRACT "A" AND THE E155' OF THE W310' OF THE E620' OF THE N63C' OF THE S640' OF BLOCK "D" INDIAN ACRES, BERNALILLO COUNTY, ALBUQUERQUE, NEW MEXICO (2417 AZTEC ROAD N.E.) ARE CONTAINED HEREON:

EXISTING CONDITIONS

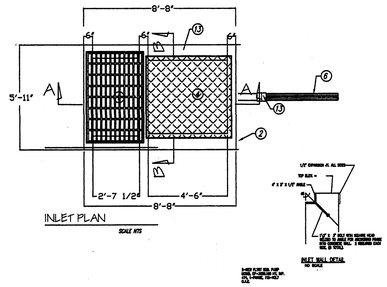
AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 4.4836 ACRES MORE OR LESS AND IS LOCATED NORTHEAST OF THE INTERSECTION OF AZTEC ROAD N.E AND VASSAR ROAD N.E... THE SITE IN ITS PRESENT CONDITION HAS A 36,701 SQ FT. OFFICE/WAREHOUSE BUILDING ALONG WITH PAVED PARKING AND DOCK AREAS. THE REMAINING PORTION OF THE SITE IS DIRT WITH ELECTRICAL SUPPLIES AND PIPE. ACCORDING TO THE FLOOD INSURANCE RATE MAPS, PANEL 0351E, REVISED NOVEMBER 19, 2003; THIS SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

PROPOSED CONDITIONS

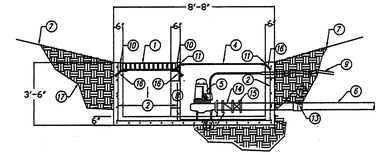
AS SHOWN BY THE GRADING/PAVING PLAN, THE PROJECT WILL CONSIST OF REMOVING AND REPAVING THE FROM AREA OF THE BUILDING AND PAVING THE EXISTING DIRT AREA. THE SITE HAS BEEN DIVIDED INTO THREE BASINS. BASIN "A" WILL DRAIN SOUTHERLY TOWARDS AZTC RD. N.E. THROUGH THE EXISTING CURB CUT. BASIN "B" WILL DRAIN NORTHERLY INTO A PROPOSED PONDING AREA WHICH WILL THEN BE PUMPED THROUGH A 3" PVC PIE OUT TO AZTEC RD N.E. BASIN "C" IS COMPRISED OF A PORTION OF THE EXISTING BUILDING AND THE DOCK AREA WHICH WILL BE DRAINED BY A PUMP SUMP VIA A 2.5" PVC PIPE OUT INTO AZTEC RD. N.E. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40-ACRES AND SMALLER BASINS, AS SET FORTH FOR THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME II, DESIGN CRITERIA DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME GENERATED.

KEYED NOTES:

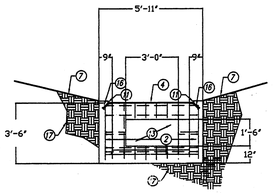
1. GRATE PER COA STD DWG. 2220 (SEE DRAINAGE PLAN FOR GRATE ELEVATION)
2. #4 RE-BAR(SCH 40) 6" EACH-WAY
3. 6" 4000# CONCRETE PAD & WALLS
4. 1/4" DIAMOND STEEL PLATE
5. SUMP PUMP (FLYGT MODEL DF3068, IMP. 474, 1-PHASE,115 VOLTS O.A.E.)
6. 3.0" PVC(SCH 40) FORCE MAIN- SEE DRAINAGE PLAN FOR POINT OF DISCHARGE
7. SLOPE GRADE TO INLET GRATE
8. OPENING TO ALLOW FLOW CENTER ON PARTITION
9. FLOAT CONTROL & POWER SUPPLY CONDUIT SEAL WATER TIGHT
10. 4"x3" x 1/4" ANGLE
11. 1"x2"x1/4" ANGEL
12. 2.5"GALV PIPE
13. TRANSITION COUPLING (FLEXIBLE)DRESSER O.A.E.
14. CHECK VALVE
15. GATE VALVE
16. 1/2"x3" BOLT WITH SQ HEAD WELDED TO ANGLE(1 ON ALL SIDES)
17. COMPACTED EARTH



INLET PLAN
SCALE NTS



INLET SECTION A-A
SCALE NTS



INLET SECTION B-B
SCALE NTS

1. CONCRETE FOR NEW INLET STRUCTURE SHALL BE 4000#- 28-DAY STRENGTH. REBAR SHALL BE GRADE 40 BARS.
2. ALL SMALL DIAMETER PVC PIPE SHALL BE SDR 26 PIPE.

PUMP DATA:
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TOTAL EQUIVALENT FEET OF DISCHARGE PIPE = 664'
DISCHARGE RATE= 60 gpm (EVACUATION IN 21.0± hrs)
SYSTEM HEAD LOSS = 17.0'
TOTAL DYNAMIC LOSS = 17.0' TO 19.2'
PUMP SELETION TO OPERATE BETWEEN 60 gpm AND 65 gpm (APPROX)

PROJECT AREA = 1.44748 ac.
AZTEC LLC BASIN A
ZONE 2
PRECIPITATION: 360 = 2.35 in.
1440 = 2.75 in.
10day = 3.95 in.

	EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in.	1.56 cfs/ac.
TREATMENT B	0.78 in.	2.28 cfs/ac.
TREATMENT C	1.13 in.	3.14 cfs/ac.
TREATMENT D	2.12 in.	4.70 cfs/ac.

	EXISTING CONDITIONS: AREA	PROPOSED CONDITIONS: AREA
TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0 ac.
TREATMENT C	0.70576 ac.	0 ac.
TREATMENT D	0.741172 ac.	1.4478 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E =(0.53)*(0.00)+(0.78)*(0.00)+(1.13)*(0.71)+(2.12)*(0.74)/ 1.45 ac.
= 1.64 in.
V100-360 =(1.64)*(1.45)/ 12 = 0.197496 ac-ft = 8603 cf

EXISTING PEAK DISCHARGE:

Q100 =(1.56)*(0.00)+(2.28)*(0.00)+(3.14)*(0.71)+(4.70)*(0.74)= 5.70 CFS

PROPOSED EXCESS PRECIPITATION:

Weighted E =(0.53)*(0.00)+(0.78)*(0.00)+(1.13)*(0.00)+(2.12)*(1.45)/ 1.45 ac.
= 2.12 in.
V100-360 =(2.12)*(1.45)/ 12.0 = 0.255778 ac-ft = 11142 CF

V100-1440 =(0.26)+(1.45)*(2.75 - 2.35)/ 12 = 0.304038 ac-ft = 13244 CF

V100-10day =(0.26)+(1.45)*(3.95 - 2.35)/ 12 = 0.448818 ac-ft = 19551 CF

PROPOSED PEAK DISCHARGE:

Q100 =(1.56)*(0.00)+(2.28)*(0.00)+(3.14)*(0.00)+(4.70)*(1.45)= 6.80 CFS

INCREASE 6.80 CFS - 5.70 CFS = 1.10 CFS

PROJECT AREA = 2.46755 ac.
AZTEC LLC BASIN B
ZONE 2
PRECIPITATION: 360 = 2.35 in.
1440 = 2.75 in.
10day = 3.95 in.

	EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in.	1.56 cfs/ac.
TREATMENT B	0.78 in.	2.28 cfs/ac.
TREATMENT C	1.13 in.	3.14 cfs/ac.
TREATMENT D	2.12 in.	4.70 cfs/ac.

	EXISTING CONDITIONS: AREA	PROPOSED CONDITIONS: AREA
TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0 ac.
TREATMENT C	1.67577 ac.	0.185 ac.
TREATMENT D	0.79178 ac.	2.28255 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E =(0.53)*(0.00)+(0.78)*(0.00)+(1.13)*(1.68)+(2.12)*(0.79)/ 2.47 ac.
= 1.45 in.
V100-360 =(1.45)*(2.47)/ 12 = 0.297683 ac-ft = 12967 CF

EXISTING PEAK DISCHARGE:

Q100 =(1.56)*(0.00)+(2.28)*(0.00)+(3.14)*(1.68)+(4.70)*(0.79)= 8.98 CFS

PROPOSED EXCESS PRECIPITATION:

Weighted E =(0.53)*(0.00)+(0.78)*(0.00)+(1.13)*(0.19)+(2.12)*(2.28)/ 2.47 ac.
= 2.05 in.
V100-360 =(2.05)*(2.47)/ 12.0 = 0.420671 ac-ft = 18324 CF

V100-1440 =(0.42)+(2.28)*(2.75 - 2.35)/ 12 = 0.496756 ac-ft = 21639 CF

V100-10day =(0.42)+(2.28)*(3.95 - 2.35)/ 12 = 0.725011 ac-ft = 31581 CF

PROPOSED PEAK DISCHARGE:

Q100 =(1.56)*(0.00)+(2.28)*(0.00)+(3.14)*(0.19)+(4.70)*(2.28)= 11.31 CFS

INCREASE 11.31 CFS - 8.98 CFS = 2.33 CFS

PROJECT AREA = 0.61429 ac.
AZTEC LLC BASIN C
ZONE 2
PRECIPITATION: 360 = 2.35 in.
1440 = 2.75 in.
10day = 3.95 in.

	EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in.	1.56 cfs/ac.
TREATMENT B	0.78 in.	2.28 cfs/ac.
TREATMENT C	1.13 in.	3.14 cfs/ac.
TREATMENT D	2.12 in.	4.70 cfs/ac.

	EXISTING CONDITIONS: AREA	PROPOSED CONDITIONS: AREA
TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0 ac.
TREATMENT C	0.05079 ac.	0.05079 ac.
TREATMENT D	0.5635 ac.	0.5635 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E =(0.53)*(0.00)+(0.78)*(0.00)+(1.13)*(0.05)+(2.12)*(0.56)/ 0.61 ac.
= 2.04 in.
V100-360 =(2.04)*(0.61)/ 12 = 0.104334 ac-ft = 4545 CF

EXISTING PEAK DISCHARGE:

Q100 =(1.56)*(0.00)+(2.28)*(0.00)+(3.14)*(0.05)+(4.70)*(0.56)= 2.81 CFS

PROPOSED EXCESS PRECIPITATION:

Weighted E =(0.53)*(0.00)+(0.78)*(0.00)+(1.13)*(0.05)+(2.12)*(0.56)/ 0.61 ac.
= 2.04 in.
V100-360 =(2.04)*(0.61)/ 12.0 = 0.104334 ac-ft = 4545 CF

V100-1440 =(0.10)+(0.56)*(2.75 - 2.35)/ 12 = 0.123118 ac-ft = 5363 CF

V100-10day =(0.10)+(0.56)*(3.95 - 2.35)/ 12 = 0.179468 ac-ft = 7818 CF

PROPOSED PEAK DISCHARGE:

Q100 =(1.56)*(0.00)+(2.28)*(0.00)+(3.14)*(0.05)+(4.70)*(0.56)= 2.81 CFS

NO CHANGE

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HYDROLOGY SECTION

EUFRACIO SABAY
NEW MEXICO
6790
REGISTERED PROFESSIONAL ENGINEER
3/14/07

JOB NO: XX1 OXX
DATE: MARCH 2007
REVISIONS

Sheet Title: GRADING & PAVING PLAN
Drawn By: HTH & BJM Checked By: ES

Job Title: AZTEC LLC WAREHOUSE/OFFICE
2417 AZTEC DRIVE N.E.
ALBUQUERQUE, NEW MEXICO

SHEET NO. 1 OF 2

GD