

GRADING AND DRAINAGE PLAN PROJECT DESCRIPTION

PURSUANT TO THE DRAINAGE ORDINANCE FOR THE CITY OF ALBUQUERQUE AND THE DEVELOPMENT PROCESS MANUAL, THIS DRAINAGE REPORT OUTLINES THE DRAINAGE MANAGEMENT CRITERIA FOR CONTROLLING DEVELOPED RUNOFF FROM THE PROJECT SITE. THE PROJECT CONSISTS OF THE CONSTRUCTION OF A 15,300 SF, SINGLE STORY BUILDING ADDITION TO THE EXISTING MARY ELLEN BINFORD ELEMENTARY SCHOOL. PARKING LOT AREAS WILL BE REPAVED ALONG WITH AN EXPANSION OF THE PARKING AREA IN THE SOUTHEAST CORNER OF THE SITE. PAVING, LANDSCAPING, UTILITY, GRADING, DRAINAGE IMPROVEMENTS WILL BE PROVIDED TO SUPPORT THE PROJECT. THE PURPOSE OF THIS DRAINAGE PLAN IS TO OBTAIN BUILDING PERMIT APPROVAL.

EXISTING CONDITIONS
THE PROJECT SITE IS APPROXIMATELY 14.5 ACRES IN SIZE AND LOCATED ON KIMELA DRIVE SW AND CORRIZ DRIVE SW. THE SITE IS PRESENTLY DESCRIBED AS TRACT C, VISTA NEVADA. THE SITE IS BOUNDED ON THE NORTH BY EXISTING HOUSING, ON THE EAST BY EXISTING HOUSING AND VISTA NEVADA PARK, ON THE SOUTH BY KIMELA DRIVE SW, AND ON THE WEST BY CORRIZ DRIVE SW. THE PROPERTY IS PRESENTLY DEVELOPED FOR USE AS AN ELEMENTARY SCHOOL WITH ASSOCIATED INFRASTRUCTURE TO SUPPORT THE SCHOOL.

THE SITE IS DEVELOPED AND BROKEN INTO 4 DRAINAGE BASINS. BASIN 1 DRAINS TO THE EXISTING POND LOCATED ON THE NORTHWEST CORNER OF THE SITE. BASIN 2 DRAINS TO THE EAST AND RUNS TO VISTA NEVADA PARK. BASIN 3 DRAINS TO THE SOUTHEAST CORNER OF THE EXISTING PARKING LOT TO DUAL 4" PVC PIPES THAT CARRY THE FLOW TO A LANDSCAPE AREA ON THE SOUTH WEST CORNER OF THE SITE. THIS LANDSCAPE AREA DRAINS VIA DUAL 4" PVC PIPES INTO KIMELA DRIVE WHERE THE WATER IS CONVEYED AWAY FROM THE SITE. BASIN 4 DRAINS ALONG THE EXISTING PARKING LOT INTO KIMELA DRIVE SW AND CONVEYED AWAY FROM THE SITE. THE SITE IS NOT AFFECTED BY OFF-SITE DRAINAGE BASINS.

AS SHOWN BY FIRM PANEL 33001003360, THE PROJECT SITE IS NOT WITHIN A DESIGNATED 100-YEAR FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE X WHICH IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN."

PROPOSED CONDITIONS

AS SHOWN BY THE PLAN, THE PROJECT CONSISTS OF AN ADDITION TO THE EXISTING SCHOOL AND TO EXPAND THE SOUTHWEST CORNER OF THE SITE TO INCLUDE ADDITIONAL PARKING. THE NEW BUILDING ADDITION WILL BE CONSTRUCTED IN BASIN 1 BUT AS THE BUILDING LOCATION WAS EXISTING ASPHALT THERE IS NO ADDITIONAL IMPERVIOUS AREA AND CHANGE TO THE RUNOFF. BASIN 2 WILL SEE NO CHANGES PER THE PROPOSED PLAN. BASIN 3 WILL REMOVE AND REPLACE PORTIONS OF AN EXISTING PARKING LOT. NO ADDITIONAL IMPERVIOUS AREA IS ADDED TO THE SITE AND THE DRAINAGE PATH WILL REMAIN DUE TO THE LACK OF CHANGES IN BASINS 1-3 NO CALCULATIONS HAVE BEEN PERFORMED ON THESE BASINS.

BASIN 4 HAS BEEN DIVIDED INTO BASIN 4A AND BASIN 4B TO ACCOUNT FOR THE CHANGE IN OUTFALL PATTERNS. BASIN 4A CONSISTS OF THE SOUTHERN PORTION OF BASIN 4. BASIN 4A WILL OUTFALL TO KIMELA DRIVE FOLLOWING HISTORICAL FLOW PATTERNS. EXISTING BASIN 4 HAD A PEAK DISCHARGE OF 12.42 CFS WHILE THE PROPOSED BASIN 4A WILL REDUCE DISCHARGE TO 6.19 CFS. BASIN 4B CONSISTS OF THE NORTHERN PORTION OF BASIN 4 AND DISCHARGES TO RETENTION POND 4B. POND 4B IS A 0.470 ACRE-DEEP POND WHICH WILL RETAIN THE FLOW FROM BASIN 4B. AS SHOWN ON THE CALCULATIONS, BASIN 4B HAS A DISCHARGE VOLUME OF 0.37 AC-FT. AND POND 4B PROVIDES 0.470 ACRE FEET OF STORAGE WITH 1 FOOT OF FREEBOARD. THERE WILL BE NO OFF-SITE FLOW FROM BASIN 4B. BASED ON THIS THE DRAINAGE FROM BASIN 4 WILL BE REDUCED TO LESS THAN HISTORICAL.

CALCULATIONS

THE CALCULATIONS CONTAINED HEREIN DEFINE THE 100-YEAR/6-HOUR DESIGN STORM FALLING WITHIN THE PROJECT AREA UNDER EXISTING AND DEVELOPED CONDITIONS. THEY HYDROLOGY IS PER "CHAPTER 22, DEVELOPMENT PROCESS MANUAL, VOL. 2", 1997 REVISION. CALCULATIONS ARE PROVIDED TO DEMONSTRATE THE CAPACITY AND FUNCTION OF ALL PROPOSED STORM DRAINAGE INFRASTRUCTURES.

KEYED NOTES

1. NEW CONCRETE CURB AND GUTTER TO MATCH EXISTING. SEE DETAIL 2/C-501
2. NEW CONCRETE CURB TO MATCH EXISTING
3. INFILL NEW CONCRETE TO MATCH EXISTING. SEE DETAIL 4/C-501
4. PROVIDE NEW CONCRETE PLANTER WALL TO MATCH EXISTING SEE DETAIL C4/AS-501
5. NEW 2'-0" WIDE X 6" HIGH CONCRETE MEDIAN WITH NEW 3'-0" HIGH CHAIN LINK FENCE. SEE DETAIL B1/AS-501
6. NEW 6" HIGH CONCRETE SPEED BUMP/ CROSSWALK. TOP OF CONCRETE TO BE FLUSH WITH TOP OF ADJACENT CONCRETE WALKS. 2'-0" WIDE FLARES TO BE SLOPED 3" PER FOOT. PROVIDE TYPICAL PAINTED CROSSWALK STRIPING. SEE DETAIL C5/AS-501
7. NEW CONCRETE SIDEWALK. SEE DETAIL 4/C-501
8. NEW GAV REFUSE ENCLOSURE W/ CONCRETE PAD. SEE DETAIL D3/AS-501
9. PROVIDE 2'-0" CURB OPENING PER DETAIL 3/C-501
10. INTERIOR RETAINING WALL, SEE STRUCTURAL PLANS.

LEGEND

- INDICATES NEW ASPHALT PAVEMENT SECTION PER DETAIL 1 SHEET C-501
- INDICATES AREA OF NEW BUILDING CONSTRUCTION
- INDICATES NEW CONCRETE INFILL TO MATCH EXISTING CONCRETE
- INDICATES AREA OF EXISTING ASPHALT TO BE MILLED AND OVERLAYED
- DIRECTION OF FLOW
- PROPOSED BASIN BOUNDARY
- WATER BLOCK

CONSTRUCTION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING. THIS INCLUDES, BUT IS NOT LIMITED TO, STORMWATER POLLUTION PREVENTION PLAN AND IMPLEMENTATION. USE BEST MANAGEMENT PRACTICES FOR EROSION CONTROL. ALL LOCAL, STATE AND FEDERAL REGULATIONS APPLY.
2. RESEED DISTURBED AREAS PER SPECIFICATION SECTION 01011, OR PER OWNER'S REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR MEETING GRADES SHOWN ON PLAN. DRAINAGE FLOW PATHS MUST NOT BE ALTERED FROM EXISTING.

CALCULATIONS

ZONE 1

BASIN 1 EXISTING CONDITIONS:
TOTAL AREA = 4.16 AC
LAND TREATMENT: 1.04 AC "C", 3.12 AC "D"
Q_{P100} = (1.04 X 2.87)+(3.12 X 4.37) = 16.62 CFS
EXCESS PRECIPITATION (E)=[(1.04AC X 0.999N)+(3.12AC X 1.979N)]/4.16AC = 1.73 IN.
VOLUME (V360)=(1.73 IN X 4.16 AC)/12 = 0.60 AC-FT.

BASIN 2 EXISTING CONDITIONS:
TOTAL AREA = 1.12 AC
LAND TREATMENT: 1.01 AC "B", 0.11 AC "D"
Q_{P100} = (1.01 X 2.03)+(0.11 X 4.37) = 2.53 CFS
EXCESS PRECIPITATION (E)=[(1.01AC X 0.679N)+(0.11AC X 1.979N)]/1.12AC = 0.80 IN.
VOLUME (V360)=(0.80 IN X 1.12 AC)/12 = 0.07 AC-FT.

CALCULATIONS CONT.

BASIN 3 EXISTING CONDITIONS:
TOTAL AREA = 1.75 AC
LAND TREATMENT: 0.35 AC "C", 1.40 AC "D"
Q_{P100} = (0.35 X 2.87)+(1.40 X 4.37) = 7.12 CFS
EXCESS PRECIPITATION (E)=[(0.35AC X 0.999N)+(1.40AC X 1.979N)]/1.75AC = 1.77 IN.
VOLUME (V360)=(1.77 IN X 1.75 AC)/12 = 0.26 AC-FT.

BASIN 4 EXISTING CONDITIONS:
TOTAL AREA = 3.44 AC
LAND TREATMENT: 0.68 AC "B", 0.68 AC "C", 2.08 AC "D"
Q_{P100} = (0.68 X 2.03)+(0.68 X 2.87)+(2.08 X 4.37) = 12.42 CFS
EXCESS PRECIPITATION (E)=[(0.68AC X 0.679N)+(0.68AC X 0.999N)+(2.08 X 1.979N)]/3.44AC = 1.56 IN.
VOLUME (V360)=(1.56 IN X 3.44 AC)/12 = 0.44 AC-FT. = 18,971 CF.

BASIN 4 PROPOSED CONDITIONS:

BASIN 4 HAS BEEN DIVIDED INTO BASINS 4A AND 4B TO ACCOUNT FOR DIFFERING DRAINAGE OUTFALL PATTERNS.

BASIN 4A:
TOTAL AREA=1.46 AC
LAND TREATMENT: 0.05 AC "B", 0.05 AC "C", 1.36 AC "D"
Q_{P100} = (0.05 X 2.03)+(0.05 X 2.87) + (1.36 X 4.37) = 6.19 CFS
EXCESS PRECIPITATION (E)=[(0.05AC X 0.679N)+(0.05AC X 0.999N)+(1.36AC X 1.979N)]/1.46AC = 1.89 IN.
VOLUME (V360)=(1.89 IN X 1.46 AC)/12 = 0.23 AC-FT. = 10,019 CF.

BASIN 4B:
TOTAL AREA=1.98 AC
LAND TREATMENT: 0.35 AC "B", 0.35 AC "C", 1.27 AC "D"
Q_{P100} = (0.35 X 2.03)+(0.35 X 2.87) + (1.27 X 4.37) = 7.26 CFS
EXCESS PRECIPITATION (E)=[(0.35AC X 0.679N)+(0.35AC X 0.999N)+(1.27AC X 1.979N)]/1.98AC = 1.56 IN.
VOLUME (V360)=(1.56 IN X 1.98 AC)/12 = 0.26 AC-FT. = 11,212 CF.
VOLUME (10DAY) = 0.26 AC-FT+1.27 AC X (3.67 IN-2.20 IN)/12 IN/FT=0.37 AC-FT=15,955 CF

BASIN 4A WILL OUTFALL TO KIMELA DRIVE FOLLOWING HISTORICAL FLOW PATTERNS. EXISTING BASIN 4 HAD A PEAK DISCHARGE OF 12.42 CFS WHILE THE PROPOSED BASIN 4A WILL REDUCE DISCHARGE TO 6.19 CFS. BASIN 4B WILL OUTFALL TO POND 4B WHICH WILL RETAIN THE PROPOSED FLOW IN AN ON-SITE RETENTION POND. THE 100 YEAR, 10 DAY VOLUME IS 0.37 AC-FT. THE PROPOSED POND PROVIDES 0.47 AC-FT W/ 1 FT. OF FREEBOARD.

POND 4B: POND VOLUME = 0.47 AC-FT W/ 1 FT. FREEBOARD
MAX. WATER SURFACE ELEVATION POND 4B = 5050.0 FT.

REFERENCES:

- 1) CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, SECTION 22.2, HYDROLOGY.
- 2) GRADING AND DRAINAGE PLAN, SHEET S2, WESTGATE ELEMENTARY SCHOOL, SEPTEMBER 1983.

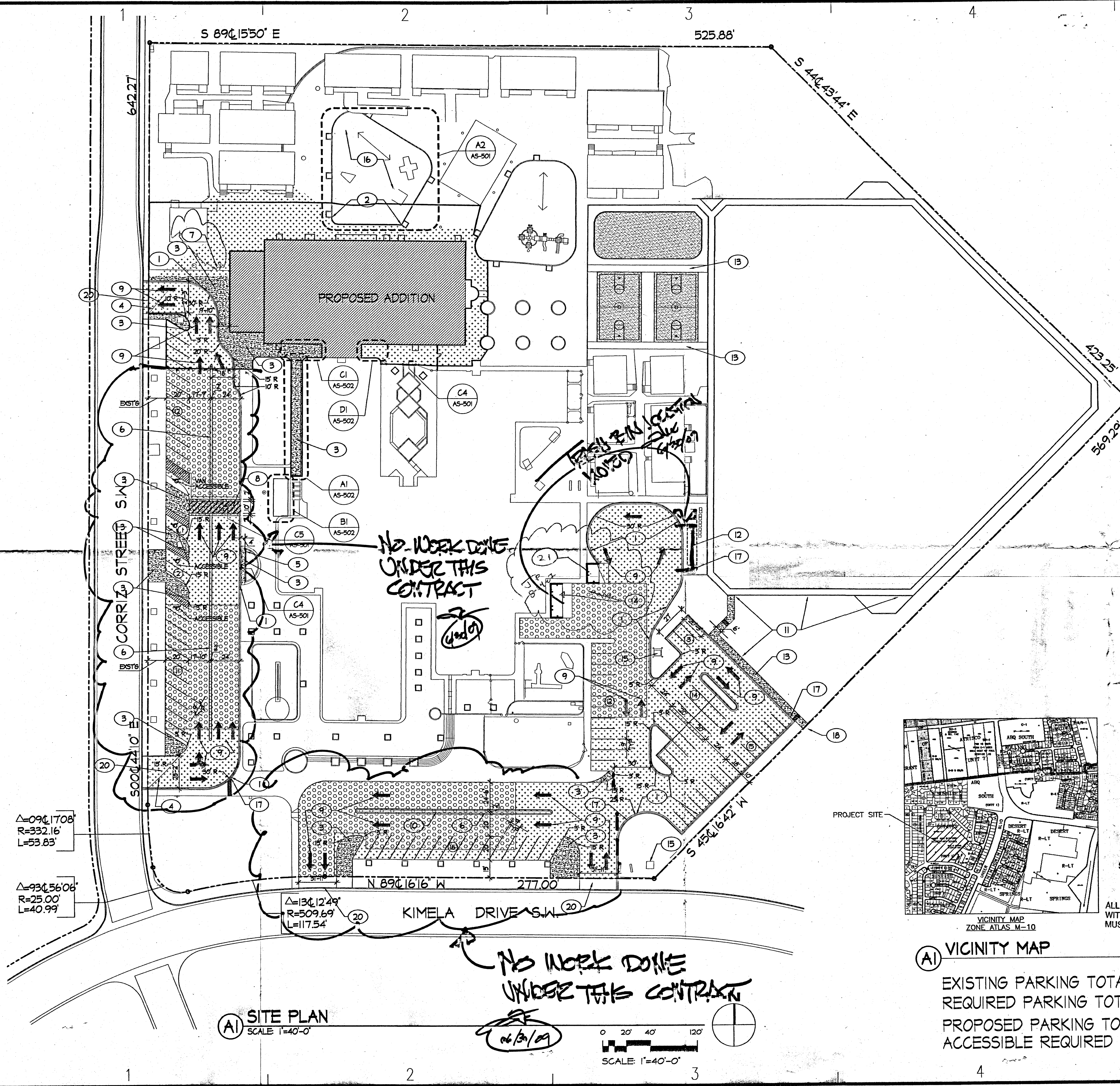
POINT DATA TABLES

NO.	Northing	Eastng	Elevation	Desc	NO.	Northing	Eastng	Elevation	Desc	NO.	Northing	Eastng	Elevation	Desc
1	9356.89	10024.00	5061.86	FL	68	9055.62	10466.28	5052.51	SW	135	9304.33	10421.74	5054.05	FL
2	9329.03	10019.78	5062.08	FL	69	9071.87	10449.09	5052.44	FL	136	9304.42	10410.95	5054.77	FL
3	9318.94	10020.61	5062.12	FL	70	9313.59	10063.51	5060.17	TP	137	9296.42	10410.89	5054.83	FL
4	9314.40	10029.57	5061.48	FL	71	9313.33	10063.85	5060.00	TP	138	9296.33	10421.69	5054.11	FL
5	9311.86	10025.01	5061.66	FL	72	9024.16	10416.86	5053.84	FL	139	9304.75	10373.61	5056.01	FL
6	9321.27	10009.63	5062.61	FL	73	9020.60	10425.39	5054.14	FL	140	9304.82	10365.64	5056.54	FL
7	9281.94	10072.82	5058.70	FL	74	9036.87	10441.67	5053.11	FL	141	9298.83	10365.59	5056.58	FL
8	9326.48	10053.68	5060.00	FL	75	9041.11	10441.67	5053.01	FL	142	9291.62	10411.67	5059.15	TP
9	9193.82	10008.48	5061.65	FL	76	9052.78	10430.00	5053.18	FL	143	9286.78	10425.15	5058.96	TP
10	9186.08	10021.12	5060.86	FL	77	8993.67	10484.84	5052.23	FL	144	9286.85	10417.10	5058.96	TP
11	9176.35	10029.61	5059.54	FL	78	8997.92	10489.09	5052.08	FL	145	9291.91	10412.15	5059.00	TP
12	9175.25	10028.16	5060.34	FL	79	8993.11	10537.83	5051.10	FL	146	9292.14	10088.50	5059.30	TP
13	9173.18	10071.94	5058.41	FL	80	8976.51	10545.37	5051.00	SW	147	9287.19	10082.84	5059.35	TP
14	9159.18	10071.81	5058.38	FL	81	8980.75	10549.61	5051.00	SW	148	9303.68	10092.77	5059.66	TP
15	9153.86	10028.12	5060.14	FL	82	9291.75	10129.02	5059.05	TP	149	9303.28	10411.77	5059.15	TP
16	9160.64	10008.32	5061.45	FL	83	9022.01	10460.00	5052.55	FL	150	9382.68	10093.42	5060.30	TP
17	9150.24	10008.08	5061.37	FL	84	9017.77	10460.76	5052.73	FL	151	9392.35	10093.49	5059.75	TP
18	9142.50	10020.72	5060.42	FL	85	8987.53	10366.80	5055.80	FL	152	9392.24	10406.16	5059.15	TP
19	9129.57	10027.90	5059.58	FL	86	8973.01	10416.56	5054.55	FL	153	9392.03	10411.83	5059.15	TP
20	9125.88	10027.86	5059.95	FL	87	8952.74	10416.44	5054.31	FL	154	9391.81	10415.83	5058.07	TP
21	9123.35	10023.30	5060.20	FL	88	8937.65	10431.89	5053.88	FL	155	9391.59	10415.49	5058.56	TP
22	9132.77	10007.90	5061.29	FL	89	8942.77	10433.92	5053.95	FL	156	9391.40	10420.82	5057.17	TP
23	9111.84	10007.62	5061.24	FL	90	8954.84	10421.85	5054.05	FL	157	9390.97	10426.94	5056.46	TP
24	9104.15	10020.18	5060.03	FL	91	8967.57	10434.58	5054.15	FL	158	9352.75	10267.52	5056.97	TP
25	9091.23	10027.35	5059.70	FL	92	8979.58	10422.58	5054.35	FL	159	9340.42	10267.39	5056.97	TP
26	9087.16	10027.31	5059.67	FL	93	8949.01	10466.32	5054.40	FL	160	9302.31	10261.98	5056.50	TP
27	9084.63	10027.75	5059.91	FL	94	8941.89	10383.28	5054.20	FL	161	9437.83	10118.96	5061.50	TP
28	9094.01	10007.38	5060.85	FL	95	8936.88	10385.48	5054.10	FL	162	9427.73	10114.71	5061.40	TP
29	9137.04	10071.64	5058.37	FL	96	8931.96	10374.26	5053.80	FL	163	9433.47	10111.80	5062.70	TP
30	9094.98	10071.13	5057.87	FL	97	8932.07	10359.89	5053.82	FL	164	9434.08	10061.83	5062.50	TP
31	8978.55	10006.49	5060.03	FL	98	8932.28	10332.62	5054.11	FL	165	9429.71	10061.77	5062.40	TP
32	8967.30	10024.90	5059.35	FL	99	8932.35	10305.39	5054.53	FL	166	9429.84	10044.85	5062.40	TP
33	8962.70	10025.63	5059.29	FL	100	9099.64	10378.21	5055.72	FL	167	9390.69	10004.60	5061.60	TP
34	8965.35	10042.82	5059.84	FL	101	9127.86	10466.48	5056.40	FL	168	9362.80	10003.34	5062.40	TP
35	8927.27	10007.10	5059.25	FL	102	9142.71	10364.37	5056.60	FL	169	9361.61	9994.77	5063.10	SW
36	8927.18	10026.09	5058.41	FL	103	9169.37	10394.46	5054.63	FL	170	9357.87	9994.74	5062.78	SW
37	8927.11	10039.93	5058.20	FL	104	9169.17	10415.26	5054.08	FL	171	9361.61	10063.91	5060.80	TP
38	8935.76	10061.16	5056.94	FL	105	9138.87	10444.98	5051.93	FL	172	9303.01	10175.10	5059.15	TP
39	8953.99	10069.91	5057.57	FL	106	9416.32	10445.50	5058.44	TP	173	9291.34	10175.00	5059.15	TP
40	8965.91	10070.14	5057.68	FL	107	9411.03	10445.48	5057.95	TP	174	9286.09	10191.38	5058.80	TP
41	8921.01	10061.16	5056.66	FL	108	8978.60	10417.68	5054.45	FL	175	9285.91	10210.58	5058.55	TP
42	8852.21	10151.80	5055.86	FL	109	9410.95	10450.41	5057.77	FL	176	9284.69	10238.48	5058.90	TP
43	8872.31	10151.98	5055.72	FL	110	9405.10	10455.87	5057.80	FL	177	9284.45	10261.95	5058.50	TP
44	8887.18	10167.12	5055.60	FL	111	9404.63	10209.24	5057.70	FL	178	9284.41	10266.95	5056.40	TP
45	8887.14	10471.66	5055.70	FL	112	9402.10	10212.83	5057.66	FL	179	9289.15	10274.98	5056.71	TP
46	8882.62	10474.22	5056.06	FL	113	9405.48	10371.67	5055.85	FL	180	9298.18	10280.87	5056.65	TP
47	8867.20	10465.13	5055.18	FL	114	9415.35	10381.73	5055.80	FL	181	9310.29	10280.87	5056.50	TP
48	8865.95	10305.61	5053.91	FL	115	9415.09	10426.58	5055.00	FL	182	9320.20	10281.30	5056.30	TP
49	8865.72	10331.40	5053.64	FL	116	9414.91	10450.91	5051.40	FL	183	9346.52	10281.30	5056.47	TP
50	8884.08	10342.23	5053.28	FL	117	9408.35	10463.01	5051.30	FL	184	9374.42	10281.30	5056.80	TP
51	8885.44	10346.66	5053.18	FL	118	9375.41	10451.80	5051.60	TP	185	9374.42	10281.30	5056.80	TP
52	8884.91	10449.49	5053.08	FL	119	9375.41	10452.30	5052.40	FL	186	9340.41	10281.30	5056.09	TP
53	8850.60	10356.25	5052.82	FL	120	9365.48	10422.34	5052.41	FL	187	9394.68	10273.24	5055.86	TP
54	8850.50	10388.21	5052.44	FL	121	9375.54	10411.54	5054.20	FL	188	9396.79	10269.37	5055.96	TP
55	8881.49	10388.46	5052.64	FL	122	9375.72	10381.36	5054.20	FL	189	9401.33	10271.78	5056.05	TP
56	8894.86	10392.50	5052.74	FL	123	9385.85	10371.42	5055.60	FL	190	9399.39	10106.88	5059.13	FL
57	8898.19	10431.82	5052.84	FL	124	9370.82	10366.21	5055.60	FL	191	9387.01	10054.39	5060.95	FL
58	8887.67	10442.35	5052.94	FL	125	9364.62	10366.15	5056.00	FL	192	9387.01	10054.39	5060.95	FL
59	8844.79	10499.49	5052.94	FL	126	9364.62	10366.15	5056.00	FL	193	9063.82	10482.96	5051.00	FL
60	9281.84	10097.82	5059.40	TP	127	9366.42	10411.48	5054.26	FL	194	9068.00	10478.69	5051.20	FL
61	9382.92	10064.08	5060.60	TP	128	9364.32	10442.28	5053.47	FL	210	9346.68	10258.79	5057.15	TP
62	9348.26	10063.80	5060.92	TP	129	9363.99	10459.61	5052.23	FL	211	9302.76	10220.32	5057.15	TP
63	9089.16	10488.36	5051.14	SW	130	9369.92	10467.66	5051.69	FL	212	9303.99	10105.32	5059.15	TP
64	9089.21	10482.36	5051.10	SW	131	9363.92	10467.61	5051.73	FL	213	9315.21	10053.68	5059.68	FL
65	9071.54	10482.20	5051.90	SW	132	9303.92	10467.02	5052.86	FL	214	9315.21	10053.68	5059.68	FL
66	9069.03	10488.18	5051.80	SW	133	9293.93	10467.02	5052.86	FL	215	9285.43	10066.84	5059.08	FL
67	9069.03	10488.18	5051.80	SW	134	9304.00	10468.08	5052.81	FL	216	9282.00	10066.82	5059.02	FL

CHECKED BY: AG

DRAWN BY: LLM

FILE NAME: \\Albuquerque Public Schools\My Mary Ann Binford Elementary\Drawings\Architectural\CD\WABAS-101.DWG



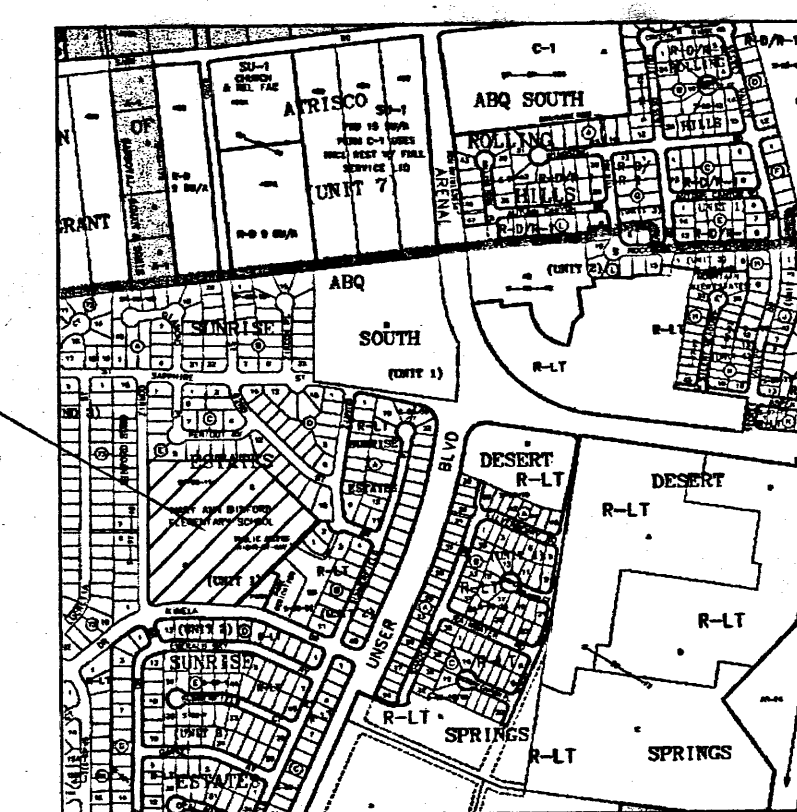
KEYED NOTES

1. NEW CONCRETE CURB AND BUTTER TO MATCH EXISTING. SEE DETAIL 2/C-501
2. NEW CONCRETE CURB TO MATCH EXISTING
3. INFILL NEW CONCRETE TO MATCH EXISTING. SEE DETAIL 4/C-501
4. EXISTING ENTRY/EXIT GATES TO REMAIN AND BE PAINTED
5. PROVIDE NEW CONCRETE PLANTER WALL TO MATCH EXISTING. SEE DETAIL 4/A5-501
6. NEW 2'-0" WIDE X 6' HIGH CONCRETE MEDIAN WITH NEW 3'-0" HIGH CHAIN LINK FENCE. SEE DETAIL B1/A5-501
7. NEW CHAIN LINK GATE IN EXISTING CHAIN LINK FENCE. Provide 20' Fire Dept Access Gate
8. NEW 6' HIGH CONCRETE SPEED BUMP/ CROSSLINK. TOP OF CONCRETE TO BE FLUSH WITH TOP OF ADJACENT CONCRETE WALKS. 2'-0" WIDE FLARES TO BE SLOPED 3' PER FOOT. PROVIDE TYPICAL PAINTED CROSSLINK STRIPING. SEE DETAIL C5/A5-501
9. NEW PAINTED TRAFFIC DIRECTION ARROWS
10. NEW STOP SIGN
11. NEW 6'-0" HIGH CHAIN LINK FENCE ALONG PERIMETER OF NEW POND. PROVIDE 3'-0" WIDE GATE WITH LOCK AS SHOWN
12. NEW LOCATION FOR EXISTING METAL STORAGE SHED (BY APS)
13. NEW CONCRETE SIDEWALK. SEE DETAIL 4/C-501
14. NEW CHU REFUSE ENCLOSURE W/ CONCRETE PAD. SEE DETAIL D3/A5-501 Detail 1 Back of Sheet
15. EXISTING ELECTRIC TRANSFORMER TO REMAIN UNDISTURBED
16. REFURBISHED PLAY AREA WITH NEW FENCE SURROUND. SEE DETAIL A2/A5-501
17. PROVIDE 2'-0" CURB OPENING PER DETAIL 3/C-501
18. PROVIDE NEW 3'-0" WIDE GATE IN EXISTING CHAIN LINK FENCE
19. BOLLARD - 6' DIA. SEE D2/A5-501
20. EXISTING DRIVEWAYS TO REMAIN
21. Construct single trash enclosure per Detail 1 Back of sheet A5-101.

LEGEND

- INDICATES NEW ASPHALT PAVEMENT. SECTION PER DETAIL 1 SHEET C-501
- INDICATES AREA OF NEW BUILDING CONSTRUCTION
- INDICATES NEW CONCRETE INFILL TO MATCH EXISTING CONCRETE
- INDICATES NEW PLAY AREA. COORDINATE WITH APS
- INDICATES AREA OF EXISTING ASPHALT TO BE MILLED AND OVERLAYED

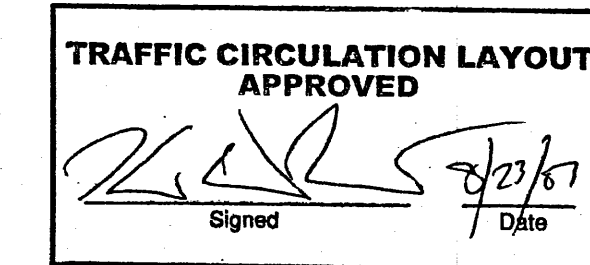
PROJECT SITE



VICINITY MAP
ZONE ATLAS M-10

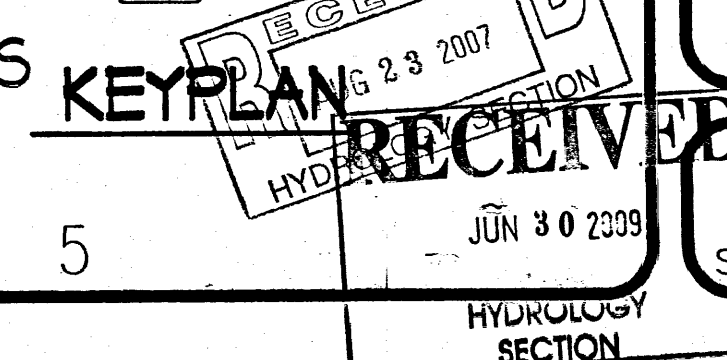
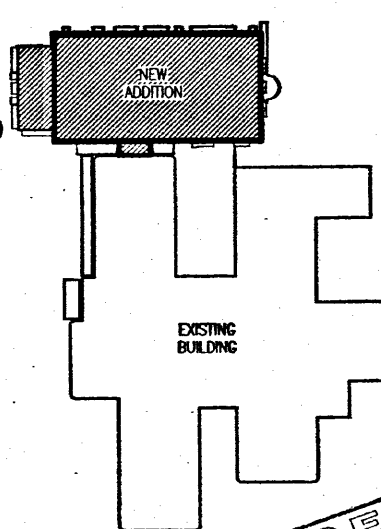
A1 VICINITY MAP

EXISTING PARKING TOTAL = 85 SPACES
REQUIRED PARKING TOTAL = 120
PROPOSED PARKING TOTAL = 86 SPACES
ACCESSIBLE REQUIRED = 4 SPACES



Public Infrastructure shown on these plans for information only and not part of approval. Separate DRC/Permit approval and Work Order required.

ALL WHEELCHAIR RAMPS LOCATED WITHIN THE PUBLIC RIGHT OF WAY MUST HAVE TRUNCATED DOMES.



ASCG
INCORPORATED
ENGINEERS • ARCHITECTS • SURVEYORS • PLANNERS
6400 UPTOWN BLVD. NE
ALBUQUERQUE, NM 87110-3702
PHONE 505.247.0234 • FAX 505.242.4845



CONSULTANTS:

MARY ANN BINFORD ELEMENTARY SCHOOL
KINDERGARTEN AND CLASSROOM ADDITION
OWNER:
ALBUQUERQUE PUBLIC SCHOOLS
6400 UPTOWN BLVD. NE
ALBUQUERQUE NM 87110

MARK	DATE	DESCRIPTION

PROJECT NO.: 020824
DATE: 03-28-07
DRAWN BY: LLM
CHK'D BY: AG

SHEET TITLE
SITE PLAN

AS-101
SHEET OF

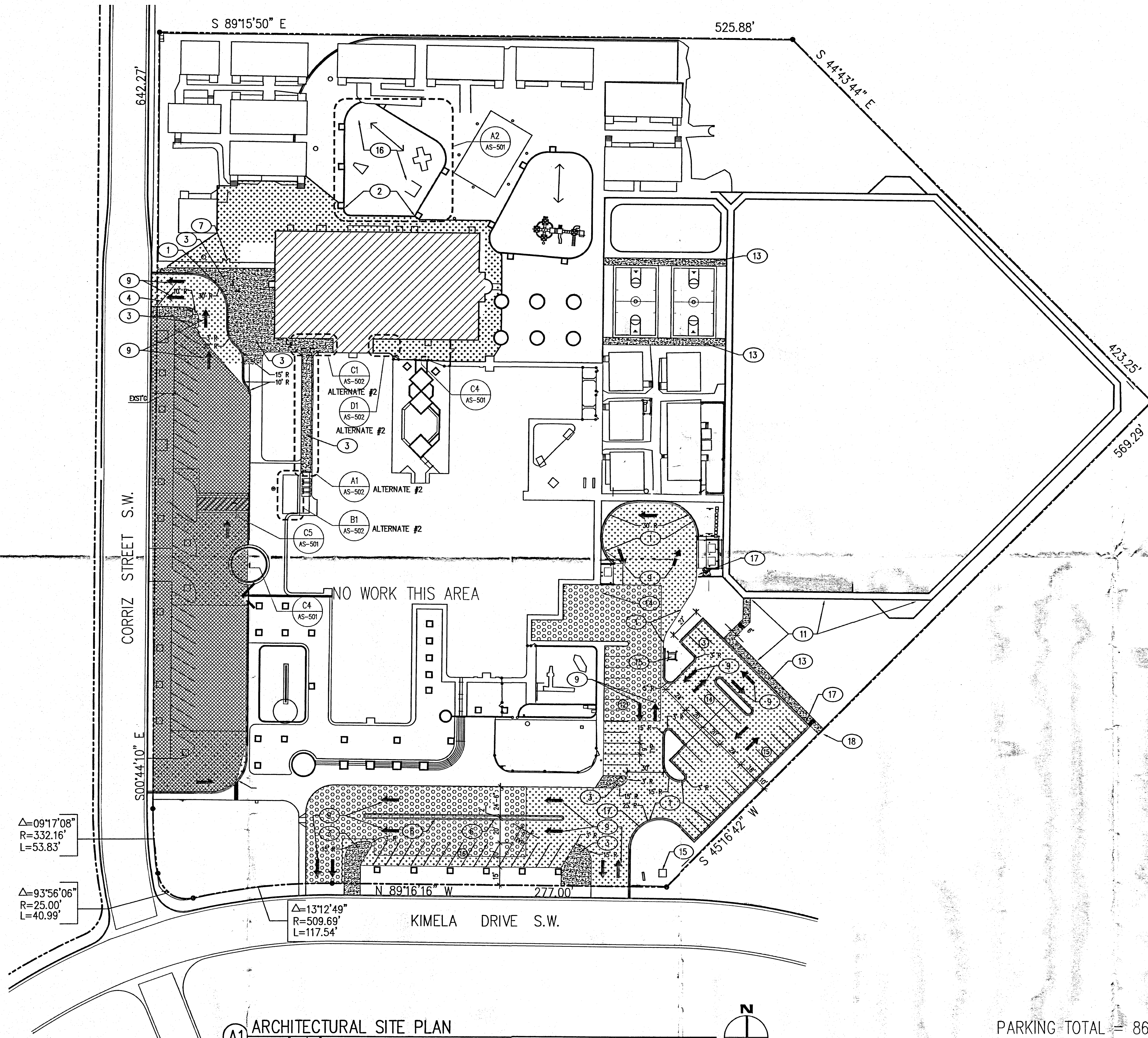
HYDROLOGY
SECTION

AS-BUILT

AG

LLM

at Albuquerque Public Schools Mary Ann Binford Elementary (Design Drawings Architecture) (C) MABEAS-101.DWG

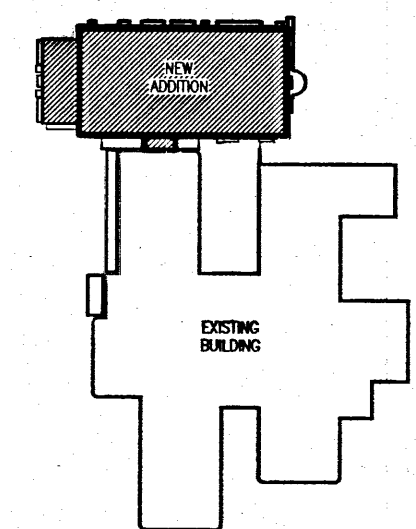


KEYED NOTES

1. NEW CONCRETE CURB AND GUTTER TO MATCH EXISTING. SEE DETAIL 2/C-501
2. NEW CONCRETE CURB TO MATCH EXISTING
3. INFILL NEW CONCRETE TO MATCH EXISTING. SEE DETAIL 4/C-501
4. EXISTING ENTRY/EXIT GATES TO REMAIN AND BE PAINTED
5. PROVIDE NEW CONCRETE PLANTER WALL TO MATCH EXISTING. SEE DETAIL C4/AS-501
6. NEW 2'-0" WIDE X 6" HIGH CONCRETE MEDIAN WITH NEW 3'-0" HIGH CHAIN LINK FENCE. SEE DETAIL B1/AS-501
7. NEW CHAIN LINK GATE IN EXISTING CHAIN LINK FENCE
8. NEW 6" HIGH CONCRETE SPEED BUMP/ CROSSWALK. TOP OF CONCRETE TO BE FLUSH WITH TOP OF ADJACENT CONCRETE WALKS. 2'-0" WIDE FLARES TO BE SLOPED 3" PER FOOT. PROVIDE TYPICAL PAINTED CROSSWALK STRIPING. SEE DETAIL C5/AS-501
9. NEW PAINTED TRAFFIC DIRECTION ARROWS
9. NEW STOP SIGN
10. NEW 6'-0" HIGH CHAIN LINK FENCE ALONG PERIMETER OF NEW POND. PROVIDE 3'-0" WIDE GATE WITH LOCK AS SHOWN
11. NEW LOCATION FOR EXISTING METAL STORAGE SHED (BY APS)
12. NEW CONCRETE SIDEWALK. SEE DETAIL 4/C-501
13. NEW CMU REFUSE ENCLOSURE W/ CONCRETE PAD. SEE DETAIL D3/AS-501
14. EXISTING ELECTRIC TRANSFORMER TO REMAIN UNDISTURBED
15. REFURBISHED PLAY AREA WITH NEW FENCE SURROUND. SEE DETAIL A2/AS-501
16. PROVIDE 2'-0" CURB OPENING PER DETAIL 3/C-501
17. PROVIDE NEW 3'-0" WIDE GATE IN EXISTING CHAIN LINK FENCE
18. BOLLARD - 6" DIA. SEE D2/AS-501
- 19.

LEGEND

- INDICATES NEW ASPHALT PAVEMENT SECTION PER DETAIL 1 SHEET C-501
- INDICATES AREA OF NEW BUILDING CONSTRUCTION
- INDICATES NEW CONCRETE INFILL TO MATCH EXISTING CONCRETE
- INDICATES NEW PLAY AREA. COORDINATE WITH APS
- INDICATES AREA OF EXISTING ASPHALT TO BE MILLED AND OVERLAYED



KEYPLAN

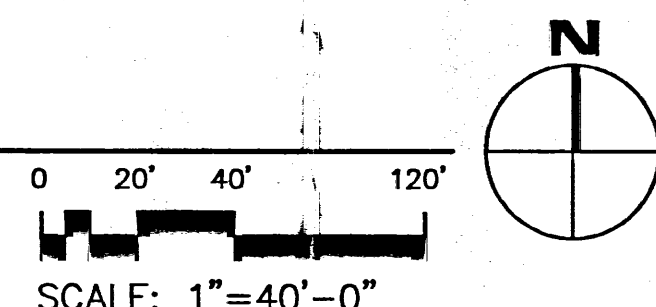
RECEIVED
JUN 18 2009
HYDROLOGY
SECTION

ARCHITECTURAL
SITE PLAN

AS-101

PARKING TOTAL = 86 SPACES

A1 ARCHITECTURAL SITE PLAN
SCALE: 1"=40'-0"



GRADING AND DRAINAGE PLAN PROJECT DESCRIPTION

PURSUANT TO THE DRAINAGE ORDINANCE FOR THE CITY OF ALBUQUERQUE AND THE DEVELOPMENT PROCESS MANUAL, THIS DRAINAGE REPORT OUTLINES THE DRAINAGE MANAGEMENT CRITERIA FOR CONTROLLING DEVELOPED RUNOFF FROM THE PROJECT SITE. THE PROJECT CONSISTS OF THE NEW CONSTRUCTION OF A 15,300 SF, SINGLE STORY BUILDING ADDITION TO THE EXISTING MARY ANN BINFORD ELEMENTARY SCHOOL. PARKING LOT AREAS WILL BE REPAVED ALONG WITH AN EXPANSION OF THE PARKING AREA IN THE SOUTHEAST CORNER OF THE SITE. PAVING, LANDSCAPING, UTILITY, GRADING, DRAINAGE IMPROVEMENTS WILL BE PROVIDED TO SUPPORT THE PROJECT. THE PURPOSE OF THIS DRAINAGE PLAN IS TO OBTAIN BUILDING PERMIT APPROVAL.

EXISTING CONDITIONS

THE PROJECT SITE IS APPROXIMATELY 14.5 ACRES IN SIZE AND LOCATED ON KIEMELA DRIVE SW AND CORRIZ DRIVE SW. THE SITE IS PRESENTLY DESCRIBED AS TRACT G, VISTA NEVADA. THE SITE IS BOUNDED ON THE NORTH BY EXISTING HOUSING, ON THE EAST BY EXISTING HOUSING AND VISTA NEVADA PARK, ON THE SOUTH BY KIEMELA DRIVE SW, AND ON THE WEST BY CORRIZ DRIVE SW. THE PROPERTY IS PRESENTLY DEVELOPED FOR USE AS AN ELEMENTARY SCHOOL WITH ASSOCIATED INFRASTRUCTURE TO SUPPORT THE SCHOOL.

THE SITE IS DEVELOPED AND BROKEN INTO 4 DRAINAGE BASINS. BASIN 1 DRAINS TO THE EXISTING POND LOCATED ON THE NORTHWEST CORNER OF THE SITE. BASIN 2 DRAINS TO THE EAST AND RUNS TO VISTA NEVADA PARK. BASIN 3 DRAINS TO THE SOUTHEAST CORNER OF THE EXISTING PARKING LOT TO DUAL 4" PVC PIPES THAT CARRY THE FLOW TO A LANDSCAPE AREA ON THE SOUTH WEST CORNER OF THE SITE. THIS LANDSCAPE AREA DRAINS VIA DUAL 4" PVC PIPES INTO KIEMELA DRIVE WHERE THE WATER IS CONVEYED AWAY FROM THE SITE. BASIN 4 DRAINS ALONG THE EXISTING PARKING LOT INTO KIEMELA DRIVE SW AND CONVEYED AWAY FROM THE SITE. THE SITE IS NOT AFFECTED BY OFF-SITE DRAINAGE BASINS.

AS SHOWN BY FIRM PANEL 35001003360, THE PROJECT SITE IS NOT WITHIN A DESIGNATED 100-YEAR FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE X WHICH IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN."

PROPOSED CONDITIONS

AS SHOWN BY THE PLAN, THE PROJECT CONSISTS OF AN ADDITION TO THE EXISTING SCHOOL AND TO EXPAND THE SOUTHWEST CORNER OF THE SITE TO INCLUDE ADDITIONAL PARKING. THE NEW BUILDING ADDITION WILL BE CONSTRUCTED IN BASIN 1 BUT AS THE BUILDING LOCATION WAS EXISTING ASPHALT THERE IS NO ADDITIONAL IMPERVIOUS AREA AND CHANGE TO THE RUNOFF. BASIN 2 WILL SEE NO CHANGES PER THE PROPOSED PLAN. BASIN 3 WILL REMOVE AND REPLACE PORTIONS OF AN EXISTING PARKING LOT. NO ADDITIONAL IMPERVIOUS AREA IS ADDED TO THE SITE AND THE DRAINAGE PATH WILL REMAIN DUE TO THE LACK OF CHANGES IN BASINS 1-3 NO CALCULATIONS HAVE BEEN PERFORMED ON THESE BASINS.

BASIN 4 HAS BEEN DIVIDED TO BASIN 4A AND BASIN 4B TO ACCOUNT FOR THE CHANGE IN OUTFALL PATTERNS. BASIN 4A CONSISTS OF THE SOUTHERN PORTION OF BASIN 4. BASIN 4A WILL OUTFALL TO KIEMELA DRIVE FOLLOWING HISTORICAL FLOW PATTERNS. EXISTING BASIN 4A HAD A PEAK DISCHARGE OF 12.42 CFS WHILE THE PROPOSED BASIN 4A WILL REDUCE DISCHARGE TO 6.19 CFS. BASIN 4B CONSISTS OF THE NORTHERN PORTION OF BASIN 4 AND DISCHARGES TO RETENTION POND 4B. POND 4B IS A 0.470 ACRE-DEEP POND WHICH WILL RETAIN THE FLOW FROM BASIN 4B. AS SHOWN ON THE CALCULATIONS, BASIN 4B HAS A DISCHARGE VOLUME OF 0.370 ACRE FEET AND POND 4B PROVIDES 0.470 ACRE FEET OF STORAGE WITH 1 FOOT OF FREEBOARD. THERE WILL BE NO OFF-SITE FLOW FROM BASIN 4B. BASED ON THIS THE DRAINAGE FROM BASIN 4 WILL BE REDUCED TO LESS THAN HISTORICAL.

CALCULATIONS

THE CALCULATIONS CONTAINED HEREIN DEFINE THE 100-YEAR/6-HOUR DESIGN STORM FILLING WITHIN THE PROJECT AREA UNDER EXISTING AND DEVELOPED CONDITIONS. THEY HYDROLOGY IS PER CHAPTER 22, DEVELOPMENT PROCESS MANUAL, VOL. 2, 1997 REVISION. CALCULATIONS ARE PROVIDED TO DEMONSTRATE THE CAPACITY AND FUNCTION OF ALL PROPOSED STORM DRAINAGE INFRASTRUCTURES.

KEYED NOTES

1. NEW CONCRETE CURB AND GUTTER TO MATCH EXISTING. SEE DETAIL 2/C-501
2. NEW CONCRETE CURB TO MATCH EXISTING
3. INFILL NEW CONCRETE TO MATCH EXISTING. SEE DETAIL 4/C-501
4. PROVIDE NEW CONCRETE PLANTER WALL TO MATCH EXISTING. SEE DETAIL C4/AS-501
5. NEW 2'-0" WIDE X 6" HIGH CONCRETE MEDIAN WITH NEW 3'-0" HIGH CHAIN LINK FENCE. SEE DETAIL B1/AS-501
6. NEW 6" HIGH CONCRETE SPEED BUMP/ CROSSWALK. TOP OF CONCRETE TO BE FLUSH WITH TOP OF ADJACENT CONCRETE WALKS. 2'-0" WIDE FLARES TO BE SLOPED 3" PER FOOT. PROVIDE TYPICAL PAINTED CROSSWALK STRIPING. SEE DETAIL C5/AS-501
7. NEW CONCRETE SIDEWALK. SEE DETAIL 4/C-501
8. NEW CMU REFUSE ENCLOSURE W/ CONCRETE PAD. SEE DETAIL D3/AS-501
9. PROVIDE 2'-0" CURB OPENING PER DETAIL 3/C-501
10. INTERIOR RETAINING WALL. SEE STRUCTURAL PLANS.

LEGEND

- INDICATES NEW ASPHALT PAVEMENT SECTION PER DETAIL 1 SHEET C-501
- INDICATES AREA OF NEW BUILDING CONSTRUCTION
- INDICATES NEW CONCRETE INFILL TO MATCH EXISTING CONCRETE
- INDICATES AREA OF EXISTING ASPHALT TO BE MILLED AND OVERLAYED
- DIRECTION OF FLOW
- PROPOSED BASIN BOUNDARY
- WATER BLOCK

CONSTRUCTION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING. THIS INCLUDES, BUT IS NOT LIMITED TO, STORMWATER POLLUTION PREVENTION PLAN AND IMPLEMENTATION. USE BEST MANAGEMENT PRACTICES FOR EROSION CONTROL. ALL LOCAL, STATE AND FEDERAL REGULATIONS APPLY.
2. RESEED DISTURBED AREAS PER SPECIFICATION SECTION 01011, OR PER OWNER'S REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR MEETING GRADES SHOWN ON PLAN. DRAINAGE FLOW PATHS MUST NOT BE ALTERED FROM EXISTING.

CALCULATIONS

ZONE 1

BASIN 1 EXISTING CONDITIONS:
TOTAL AREA = 4.16 AC
LAND TREATMENT: 1.04 AC 'C', 3.12 AC 'D'
OP100 = (1.04 X 2.87) + (3.12 X 4.37) = 16.62 CFS
EXCESS PRECIPITATION (E) = ((1.04AC X 0.99IN) + (3.12AC X 1.97IN)) / 1.12AC = 1.73 IN.
VOLUME (V360) = (1.73 IN. X 4.16 AC) / 12 = 0.60 AC-FT.

BASIN 2 EXISTING CONDITIONS:
TOTAL AREA = 1.12 AC
LAND TREATMENT: 1.01 AC 'B', 0.11 AC 'D'
OP100 = (1.01 X 2.03) + (0.11 X 4.37) = 2.53 CFS
EXCESS PRECIPITATION (E) = ((1.01AC X 0.67IN) + (0.11AC X 1.97IN)) / 1.12AC = 0.80 IN.
VOLUME (V360) = (0.80 IN. X 1.12 AC) / 12 = 0.07 AC-FT.

CALCULATIONS CONT.

BASIN 3 EXISTING CONDITIONS:
TOTAL AREA = 1.75 AC
LAND TREATMENT: 0.35 AC 'C', 1.40 AC 'D'
OP100 = (0.35 X 2.87) + (1.40 X 4.37) = 7.12 CFS
EXCESS PRECIPITATION (E) = ((0.35AC X 0.99IN) + (1.40AC X 1.97IN)) / 1.75AC = 1.77 IN.
VOLUME (V360) = (1.77 IN. X 1.75 AC) / 12 = 0.26 AC-FT.

BASIN 4 EXISTING CONDITIONS:
TOTAL AREA = 3.44 AC
LAND TREATMENT: 0.68 AC 'B', 0.68 AC 'C', 2.08 AC 'D'
OP100 = (0.68 X 2.03) + (0.68 X 2.87) + (2.08 X 4.37) = 12.42 CFS
EXCESS PRECIPITATION (E) = ((0.68AC X 0.67IN) + (0.68AC X 0.99IN) + (2.08 X 1.97IN)) / 3.44AC = 1.56 IN.
VOLUME (V360) = (1.56 IN. X 3.44 AC) / 12 = 0.44 AC-FT. = 18,971 CF.

BASIN 4 PROPOSED CONDITIONS:

BASIN 4 HAS BEEN DIVIDED INTO BASINS 4A AND 4B TO ACCOUNT FOR DIFFERING DRAINAGE OUTFALL PATTERNS.

BASIN 4A:
TOTAL AREA = 1.46 AC
LAND TREATMENT: 0.05 AC 'B', 0.05 AC 'C', 1.36 AC 'D'
OP100 = (0.05 X 2.03) + (0.05 X 2.87) + (1.36 X 4.37) = 6.19 CFS
EXCESS PRECIPITATION (E) = ((0.05AC X 0.67IN) + (0.05AC X 0.99IN) + (1.36AC X 1.97IN)) / 1.46AC = 1.89 IN.
VOLUME (V360) = (1.89 IN. X 1.46 AC) / 12 = 0.23 AC-FT. = 10,019 CF.

BASIN 4B:
TOTAL AREA = 1.98 AC
LAND TREATMENT: 0.35 AC 'B', 0.35 AC 'C', 1.27 AC 'D'
OP100 = (0.35 X 2.03) + (0.35 X 2.87) + (1.27 X 4.37) = 7.26 CFS
EXCESS PRECIPITATION (E) = ((0.35AC X 0.67IN) + (0.35AC X 0.99IN) + (1.27AC X 1.97IN)) / 1.98AC = 1.56 IN.
VOLUME (V360) = (1.56 IN. X 1.98 AC) / 12 = 0.26 AC-FT. = 11,212 CF.
VOLUME (10DAY) = 0.26 AC-FT X 1.27 AC X (3.67 IN-2.20 IN) / 12 IN/FT = 0.37 AC-FT = 15,855 CF

BASIN 4A WILL OUTFALL TO KIEMELA DRIVE FOLLOWING HISTORICAL FLOW PATTERNS. EXISTING BASIN 4A HAD A PEAK DISCHARGE OF 12.42 CFS WHILE THE PROPOSED BASIN 4A WILL REDUCE DISCHARGE TO 6.19 CFS. BASIN 4B WILL OUTFALL TO POND 4B WHICH WILL RETAIN THE PROPOSED FLOW IN AN ON-SITE RETENTION POND. THE 100 YEAR, 10 DAY VOLUME IS 0.37 AC-FT. THE PROPOSED POND PROVIDES 0.47 AC-FT W/ 1 FT. OF FREEBOARD.

POND 4B: POND VOLUME = 0.47 AC-FT W/ 1 FT. FREEBOARD
MAX. WATER SURFACE ELEVATION POND 4B = 5050 FT.

REFERENCES

1. CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, SECTION 22.2, HYDROLOGY.
2. GRADING AND DRAINAGE PLAN, SHEET S2, WESTGATE ELEMENTARY SCHOOL, SEPTEMBER 1983.

POINT DATA TABLES

No.	Northings	Eastings	Elevation	Desc	No.	Northings	Eastings	Elevation	Desc	No.	Northings	Eastings	Elevation	Desc
1	9356.89	10029.00	5062.06	FL	68	9055.62	10466.28	5052.51	SW	135	9304.33	10421.74	5054.05	FL
2	9329.03	10019.78	5062.06	FL	69	9071.67	10449.09	5052.44	FL	136	9304.42	10410.89	5054.77	FL
3	9318.94	10029.61	5061.52	FL	70	9313.59	10063.51	5060.17	TP	137	9298.42	10410.89	5054.83	FL
4	9314.40	10029.57	5061.46	FL	71	9313.35	10092.85	5060.00	TP	138	9298.33	10421.69	5054.11	FL
5	9311.86	10025.01	5061.66	FL	72	9024.16	10416.86	5053.84	FL	139	9304.75	10373.61	5056.01	FL
6	9321.27	10009.63	5062.61	FL	73	9020.69	10425.39	5054.14	FL	140	9304.82	10365.64	5056.54	FL
7	9281.94	10072.82	5058.70	FL	74	9036.87	10441.67	5053.11	FL	141	9298.83	10365.59	5056.58	FL
8	9326.48	10032.58	5060.00	FL	75	9041.11	10441.67	5053.01	FL	142	9291.62	10141.67	5059.15	TP
9	9193.82	10008.48	5061.65	FL	76	9052.78	10430.09	5052.18	FL	143	9286.78	10125.15	5058.96	TP
10	9193.82	10008.48	5061.65	FL	77	8993.67	10484.84	5052.93	FL	144	9298.85	10117.10	5058.96	TP
11	9186.08	10021.12	5060.86	FL	78	8997.92	10489.09	5052.08	FL	145	9291.91	10112.15	5059.00	TP
12	9175.25	10028.16	5060.34	FL	79	8983.11	10537.83	5051.10	FL	146	9292.14	10088.50	5059.30	TP
13	9173.18	10071.94	5058.41	FL	80	8976.51	10545.37	5051.00	SW	147	9287.19	10082.84	5059.35	TP
14	9159.18	10071.81	5058.38	FL	81	8980.75	10549.61	5051.00	SW	148	9303.68	10092.77	5059.66	TP
15	9153.86	10028.12	5060.14	FL	82	9291.75	10129.02	5059.05	TP	149	9303.28	10141.77	5059.15	TP
16	9160.64	10008.38	5061.45	FL	83	9022.01	10465.00	5052.55	FL	150	9382.68	10093.42	5060.30	TP
17	9150.24	10008.08	5061.37	FL	84	9017.77	10465.00	5052.55	FL	151	9392.32	10093.49	5059.73	TP
18	9142.50	10020.72	5060.42	FL	85	8987.53	10366.80	5055.80	FL	152	9392.29	10106.16	5059.15	TP
19	9129.57	10027.90	5059.98	FL	86	8973.01	10416.56	5054.55	FL	153	9392.03	10131.83	5059.15	TP
20	9125.88	10027.86	5059.95	FL	87	8952.74	10416.44	5054.31	FL	154	9391.81	10158.83	5058.07	TP
21	9123.35	10023.30	5060.20	FL	88	8937.65	10431.89	5053.88	FL	155	9391.59	10185.49	5058.56	TP
22	9132.77	10007.90	5061.29	FL	89	8942.77	10433.92	5053.95	FL	156	9391.40	10208.82	5057.17	TP
23	9111.84	10021.62	5061.24	FL	90	8954.84	10421.85	5054.05	FL	157	9390.97	10262.94	5056.46	TP
24	9104.15	10021.62	5061.24	FL	91	8957.57	10434.58	5054.15	FL	158	9392.42	10267.52	5056.97	TP
25	9091.23	10027.35	5059.70	FL	92	8979.58	10422.58	5054.35	FL	159	9340.42	10267.52	5056.97	TP
26	9087.16	10027.31	5059.67	FL	93	8942.02	10366.32	5054.40	FL	160	9302.31	10261.98	5056.50	TP
27	9084.62	10022.75	5059.91	FL	94	8941.89	10383.28	5054.20	FL	161	9437.83	10118.96	5061.50	TP
28	9094.01	10007.38	5060.85	FL	95	8936.88	10385.48	5054.10	FL	162	9427.73	10114.71	5061.40	TP
29	9137.04	10071.64	5058.37	FL	96	8931.96	10374.26	5053.80	FL	163	9433.47	10111.80	5062.70	TP
30	9094.98	10071.13	5057.87	FL	97	8932.07	10359.89	5053.82	FL	164	9434.08	10061.83	5062.50	TP
31	9187.84	10021.62	5061.24	FL	98	8932.28	10422.62	5054.11	FL	165	9429.71	10061.77	5062.40	TP
32	8967.30	10024.90	5059.35	FL	99	8932.35	10305.39	5054.53	FL	166	9439.84	10049.35	5059.40	TP
33	8962.70	10025.63	5059.29	FL	100	9099.64	10378.21	5055.72	FL	167	9390.69	10044.90	5061.60	TP
34	8955.38	10012.67	5059.56	FL	101	9127.85	10366.48	5056.40	FL	168	9362.80	10003.34	5062.40	TP
35	8927.27	10007.10	5059.25	FL	102	9142.71	10364.37	5056.60	FL	169	9361.61	9994.77	5063.10	SW
36	8927.18	10026.09	5058.41	FL	103	9169.37	10394.46	5054.63	FL	170	9357.87	9994.74	5062.78	SW
37	8927.11	10039.93	5058.20	FL	104	9169.17	10415.26	5054.08	FL	171	9361.61	10063.91	5060.80	TP
38	8935.76	10061.16	5056.94	FL	105	9138.67	10444.98	5051.93	FL	172	9303.01	10175.10	5059.15	TP
39	8953.99	10069.91	5057.57	FL	106	9146.32	10145.50	5058.44	TP	173	9291.34	10175.00	5059.15	TP
40	8965.91	10070.14	5057.68	FL	107	9411.03	10145.48	5057.95	TP	174	9286.09	10191.38	5058.80	TP
41	8921.01	10061.16	5056.80	FL	108	8978.60	10417.68	5054.45	FL	175	9285.91	10210.58	5058.55	TP
42	8852.21	10151.80	5055.86	FL	109	9410.95	10150.17	5057.77	FL	176	9284.69	10238.48	5056.90	TP
43	8872.31	10151.98	5055.72	FL	110	9405.10	10155.87	5057.80	FL	177	9284.45	10261.95	5056.50	TP
44	8887.18	10167.12	5055.60	FL	111	9404.63	10209.24	5057.70	FL	178	9284.41	10266.95	5056.40	TP
45	8887.14	10171.66	5055.70	FL	112	9402.10	10212.83	5057.66	FL	179	9289.15	10274.98	5056.71	TP
46	8882.62	10174.22	5056.06	FL	113	9375.48	10421.74	5055.85	FL	180	9298.18	10273.00	5056.65	TP
47	8867.20	10165.13	5055.18	FL	114	9415.35	10381.73	5055.80	FL	181	9310.29	10280.87	5056.50	TP
48	8865.95	10305.61	5053.91	FL	115	9415.09	10426.59	5055.00	FL	182	9328.20	10281.30	5056.38	TP
49	8865.72	10331.40	5053.64	FL	116	9414.91	10456.09	5051.40	FL	183	9346.52	10281.30	5056.47	TP
50	8884.06	10305.61	5053.28	FL	117	9408.35	10433.92	5051.30	FL	184	9374.42	10281.30	5056.80	TP
51	8885.95	10346.68	5053.00	FL	118	9395.11	10444.98	5051.00	FL	185	9392.42	10281.30	5056.80	FL
52	8870.91	10356.43	5052.92	FL	119	9375.31	10452.74	5052.40	FL	186	9340.41	10281.30	5056.09	FL
53	8850.60	10356.25	5052.82	FL	120	9375.48	10422.34	5054.41	FL	187	9394.68	10273.24	5055.86	FL
54	8850.50	10388.21	5052.44	FL	121	9375.54	10411.54	5054.20	FL	188	9396.79	10269.37	5055.95	TP
55	8881.49	10388.46	5052.64	FL	122	9375.72	10381.36	5055.20	FL	189	9401.33	10271.78	5056.06	TP
56	8894.86	10392.50	5052.74	FL	123	9385.85	10371.42	5055.60	FL	190	9399.39	10106.88	5059.13	FL
57	8898.98	10402.93	5052.84	FL	124	9370.82	10366.21	5055.00	FL	191	9387.01	10054.39	5060.95	TP
58	8887.67	10442.35	5052.94	FL	125	9364.87	10364.37	5055.00	FL	192	9387.01	10054.39	5060.95	TP
59	8944.79	10499.49	5053.51	FL	126	9364.75	10374.15	5055.50	FL	193	9303.82	10482.96	5051.00	FL
60	9281.84	10082.79	5058.40	TP	127	9364.42	10411.48	5054.26	FL	194	9068.00	10478.66	5051.20	FL
61	9382.92	10064.08	5060.60	FL	128	9364.32	10422.28	5053.47	FL	210	9346.68	10258.79	5057.15	TP
62	9348.26	10063.80	5060.92	TP	129	9363.99	10459.61	5052.23	FL	211	9302.76	10220.32	5051.15	TP
63	9089.16	10488.36	5051.14	SW	130	9369.92	10467.66	5051.69	FL	212	9303.99	10105.32	5059.15	TP
64	9099.21	10488.36	5051.14	SW	131	9369.92	10467.66	5051.73	FL	213	9312.81	10105.32	5059.15	TP
65	9071.44	10501.80	5051.80	SW	132	9369.92	10467.66	5051.73	FL	214	9312.81	10105.32	5059.15	TP
66	9069.03	10488.18	5051.80	SW	133	9327.93	10466.96	5052.32	FL	215	9285.43	10064.34	5054.03	FL
67	9055.62	10474.76	5052.34	SW	134	9304.00	10459.08	5052.81	FL	216	9282.00	10066.82	5052.02	FL

CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 (ALBUQUERQUE AREA), 1-800-321-ALERT(2537) (STATEWIDE), FOR LOCATION OF EXISTING UTILITIES, AND ABASTO UTILITY LOCATING COMPANY (889-3341) FOR LOCATION OF EXISTING PRIVATE UTILITIES ON APS PROPERTY.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
3. 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.
4. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7, AMENDMENT 1
5. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
3. WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.

ENGINEER'S CERTIFICATION

I, JEFFREY G. MORTENSEN, NMPE 8547, OF THE FIRM HIGH MESA CONSULTING GROUP, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED, DRAINED AND CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE ORIGINAL APPROVED PLAN DATED 07-15-2010. THE RECORD INFORMATION-EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR PERSONNEL UNDER MY DIRECT SUPERVISION AS SUPPLEMENTAL SITE DATA COMBINED WITH RECORD INFORMATION OBTAINED FROM THE AS-BUILT SURVEY DATED 09-03-2010 PERFORMED UNDER THE DIRECT SUPERVISION OF CHARLES G. CALA, JR., (NMPS 11184) OF THE FIRM HIGH MESA CONSULTING GROUP AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED TO DOCUMENT COMPLETION OF THOSE IMPROVEMENTS IDENTIFIED ON THE APPROVED PLAN FOR THE OWNER AND CITY OF ALBUQUERQUE.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE, AND SPECIFIC LIMITED 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 NO. 8547

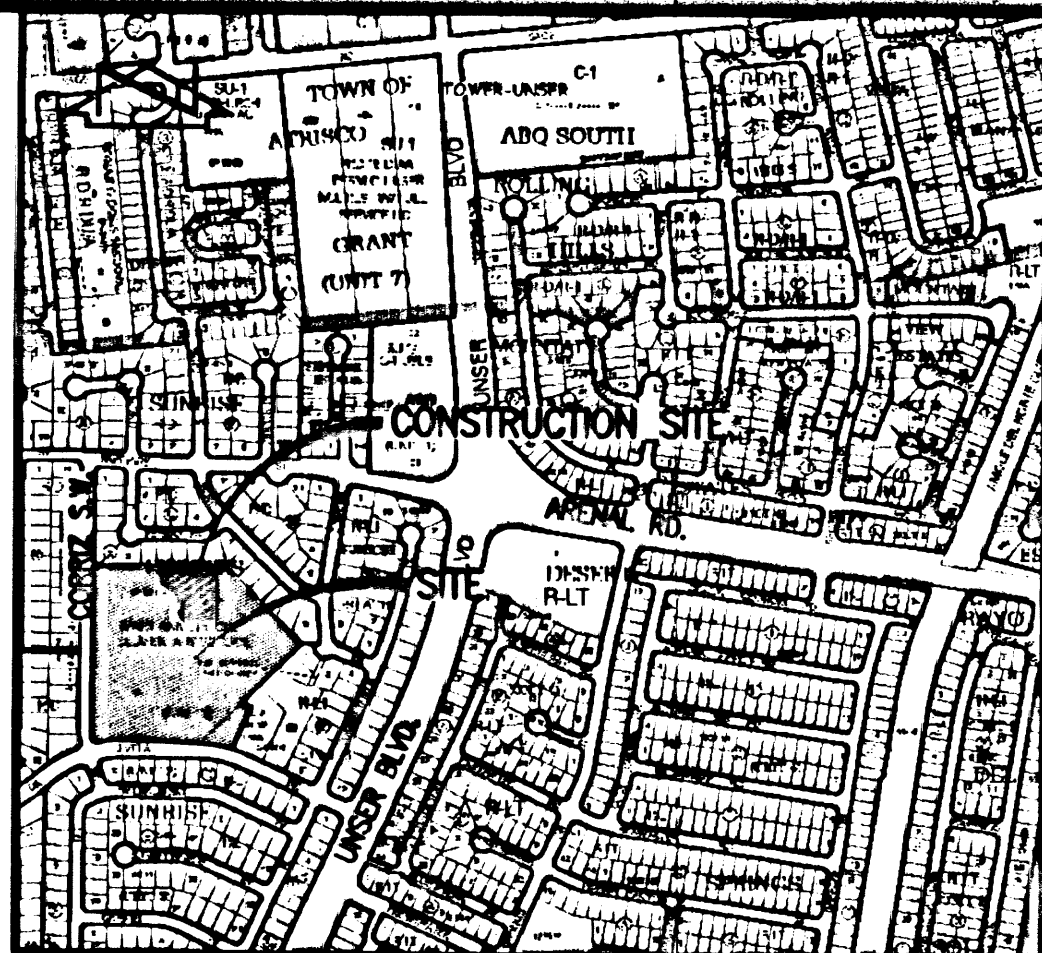


RECORD DRAWING

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1 OF 1	SUPPLEMENTAL SITE AND DRAINAGE INFO.
2 OF 10	OVERALL PLAN
3 OF 10	DEMOLITION PLAN (FOR EXISTING CONDITIONS)
5 OF 10	GRADING PLAN
6 OF 10	DRAINAGE PLAN AND CALCULATIONS

HYDROLOGY FILE NO. M10/D004



VICINITY MAP

SCALE: 1" = 750'

M-10



F.I.R.M.

SCALE: 1" = 500'

PANEL 336 OF 825

DATE: 9-26-2008

LEGAL DESCRIPTION

A PORTION OF TRACT G, VISTA NUEVA, ALBUQUERQUE, NEW MEXICO

PROJECT BENCHMARK

ACS 3 1/4" ALUMINUM CAP STAMPED "ACS, 5-M10", SET FLUSH AND CENTERED ON CONCRETE DROP INLET IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF FRESHWATER ROAD S.W. AND UNSER BOULEVARD S.W. STATION IS LOCATED 81.4 FEET SOUTH OF CENTERLINE OF FRESHWATER ROAD S.W. AND 53.0 FEET EAST OF CENTERLINE OF UNSER BOULEVARD S.W.
ELEVATION = 5042.77 FEET (NAVD 1988)

T.B.M. #1

MAG NAIL IN SIDEWALK JOINT AS SHOWN ON SHEET 2.
ELEVATION = 5055.13 FEET

T.B.M. #2

REBAR AND CAP AS SHOWN ON SHEET 2.
ELEVATION = 5059.40 FEET

T.B.M. #3

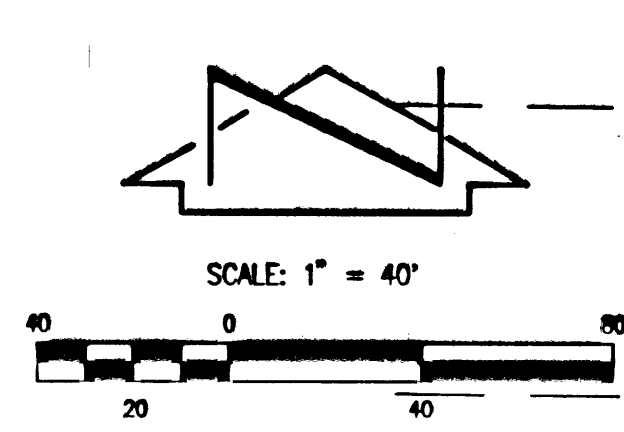
CHISELED SQUARE AS SHOWN ON SHEET 2.
ELEVATION = 5064.54 FEET

HIGH MESA Consulting Group

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

**SUPPLEMENTAL SITE AND DRAINAGE INFORMATION
PORTABLE CLASSROOM INSTALLATION
MARY ANN BINFORD
ELEMENTARY SCHOOL
1400 CORRAZ S.W.**

DESIGNED BY	J.L.B.	NO.	DATE	BY	REVISIONS	JOB NO.
DRAWN BY	J.Y.R.	1	07-10	J.L.B.	RECORD DRAWING & CERT.	2008.201.1
APPROVED BY	J.G.M.					DATE 07-2010
						SHEET 1 OF 1



DESIGN GRADING LEGEND:

PROPOSED ASPHALT PAVING
DRAINAGE BASIN BOUNDARY
PER 1983 MDP

LEGEND

- AMP AMPHITHEATER
- ASPH ASPHALT
- ASV ANTI-SIPHON VALVE
- BGB BASKETBALL GOAL
- BOBH BUILDING OVERHANG
- BR BRICK PLATFORM
- BR BRICK RACK
- BW BRICK WALL
- C COMMUNICATION
- C&G CURB AND GUTTER
- CATV CABLE TELEVISION
- CB CONCRETE BENCH
- CBC CONCRETE BUILDING COLUMN
- CDP CONCRETE DRIVEPAD
- CL CHAIN LINK
- CLD CENTERLINE OF DOOR
- CLDD CENTERLINE OF DOUBLE DOOR
- CLF CHAIN LINK FENCE
- CLF SANITARY SEWER CLEAN-OUT
- CO/C SANITARY SEWER CLEAN-OUT IN CONCRETE
- CONC CONCRETE
- COP CURB OPENING
- CSTP CONCRETE STEPS
- CURB CONCRETE CURB
- CURB(F) FLUSH WITH CONCRETE CURB
- CWALL CONCRETE WALL
- E ELECTRIC
- EE ELECTRIC ENCLOSURES WITH POLES, TRANSFORMERS, CABINETS
- EA ELECTRIC CABINET
- EM ELECTRIC METER
- ET ELECTRIC TRANSFORMER
- FBG FLICKER BALL GOAL
- FF FINISHED FLOOR
- FF FIRE HYDRANT
- FL FLOWLINE
- FLC FIRELINE CONNECTION
- FLV FIRELINE VALVE
- FRD FROM RECORD DRAWINGS
- G GAS
- G/UB GAS UNDER BUILDING
- GATE GATE
- GM GAS METER
- GPRV GAS PRESSURE RELEASE VALVE
- GPR GAS PRESSURE REGULATOR
- GS GAS SERVICE
- GT GREASE TRAP
- GTPB GATE TIE BACK POST
- HCS HANDICAP SIGN
- IBV IRRIGATION VALVE BOX
- LB LADDER BARS
- LS LANDSCAPED
- MCC METER CAN
- MCCV METER CAN WITH VALVE
- MCCWL METER CAN WITH WATERLINE
- MF METAL FENCE
- MGP METAL GUARD POST
- MH MANHOLE
- MHR METAL HANDRAIL
- ML METAL LANDING
- MLP METAL LIGHT POLE
- MR METAL RAMP
- MSI METAL SIGN
- MSL METAL STEPS AND LANDING
- OH OVERHEAD
- PBES PORTABLE BUILDING ELECTRIC SERVICE OR MAST
- PE PLAYGROUND EQUIPMENT
- PG PIPE GATE
- PI PAINTED ISLAND
- PM PAINT MARK
- PP POWER POLE
- PRV PRESSURE RELEASE VALVE
- PT PICNIC TABLE
- PVC POLY VINYL CHLORIDE
- PVMT PAVEMENT
- RD ROOF DRAIN
- RO ROOF OPENING
- RR TIE RAILROAD TIE
- RW RETAINING WALL
- SAS SANITARY SEWER LINE
- SAS/MC SANITARY SEWER LINE IN METER CAN
- SP STEEL POLE
- SS SCHOOL SIGN
- STCE SPRINKLER TIMER IN CHAINLINK ENCLOSURE
- STD C&G STANDARD CURB AND GUTTER
- SV SPRINKLER VALVE
- SVB SPRINKLER VALVE BOX
- SW SIDEWALK
- TA TOP OF ASPHALT
- TBP TETHER BALL POLE
- TC TOP OF CURB
- TOO TOP OF CONCRETE
- TR TELEPHONE RISER
- TS TRAFFIC SIGN
- TSPB TRAFFIC SIGNAL PULLBOX
- UG UNDERGROUND
- VG VALLEY GUTTER
- WB WOOD BENCH
- WCR WHEELCHAIR RAMP
- WF WATER FAUCET
- WF/C WATER FAUCET ON CONCRETE
- WGP WOOD GUARD POST
- WHB WATER HOT BOX
- WL WATERLINE
- WM WATER METER
- WPP WOOD POWER POLE
- WSP WOOD SHED
- WV WATER VAULT
- WVB WATER VALVE BOX
- X-WALK CROSSWALK
- PROPERTY CORNER
- MANHOLE
- CONDUIT
- POWER POLE
- LIGHT POLE
- GUY ANCHOR
- SIGN
- CONTOUR LINE
- EASEMENT LINE
- ADJOINER LINE
- PROPERTY LINE
- ✱ DECIDUOUS TREE
- ✱ CONIFEROUS TREE
- SHRUB

LEGAL DESCRIPTION

A PORTION OF TRACT G, VISTA NUEVA, ALBUQUERQUE, NEW MEXICO

PROJECT BENCHMARK

ACS 3 1/4" ALUMINUM CAP STAMPED "ACS, 5-M10", SET FLUSH AND CENTERED ON CONCRETE DROP INLET IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF FRESHWATER ROAD S.W. AND UNSER BOULEVARD S.W. STATION IS LOCATED 81.4 FEET SOUTH OF CENTERLINE OF FRESHWATER ROAD S.W. AND 53.0 FEET EAST OF CENTERLINE OF UNSER BOULEVARD S.W. ELEVATION = 5042.77 FEET (NAVD 1988)

T.B.M. #1

MAG NAIL IN SIDEWALK JOINT AS SHOWN ON THIS SHEET. ELEVATION = 5055.13 FEET

T.B.M. #2

REBAR AND CAP AS SHOWN ON THIS SHEET. ELEVATION = 5059.40 FEET

T.B.M. #3

CHISELED SQUARE AS SHOWN ON THIS SHEET ELEVATION = 5064.54 FEET

BOUNDARY TABLE

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA
C1	509.69'	117.58'	S 83°55'30" W	117.32'	13°13'04"
C2	25.00'	40.62'	N 55°38'12" W	36.30'	93°05'39"
C3	332.16'	53.70'	N 04°13'56" W	53.64'	09°15'48"

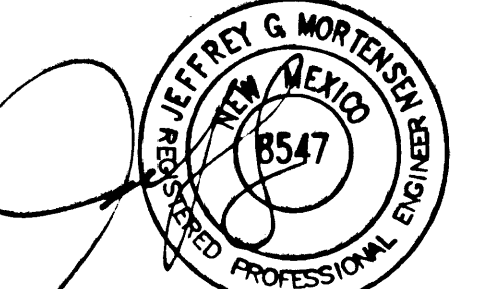
RECORD DRAWING

RECEIVED

OCT 07 2010

HYDROLOGY

SECTION



10-05-2010
07-15-2010

DESIGN SURVEY NOTE:

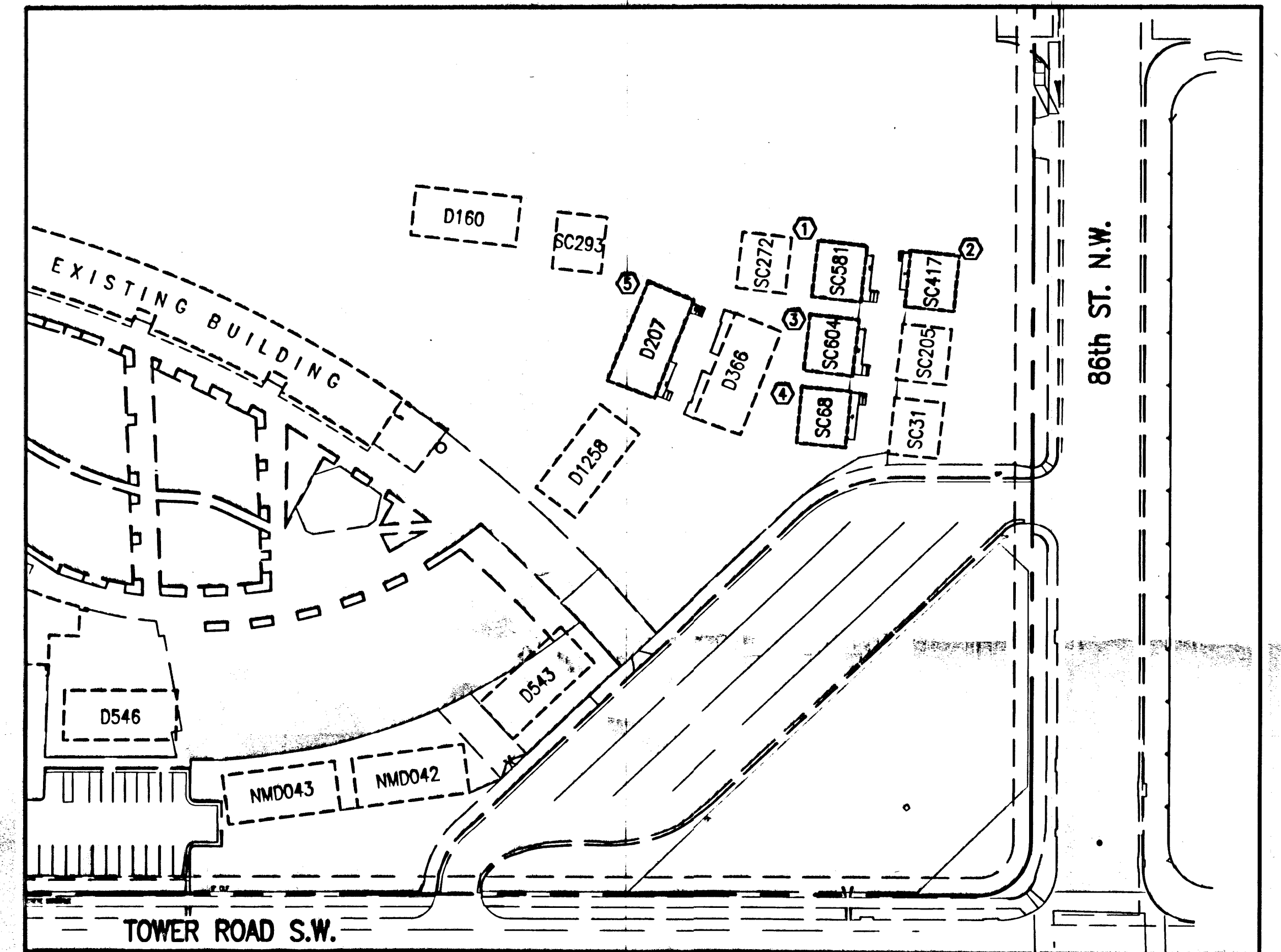
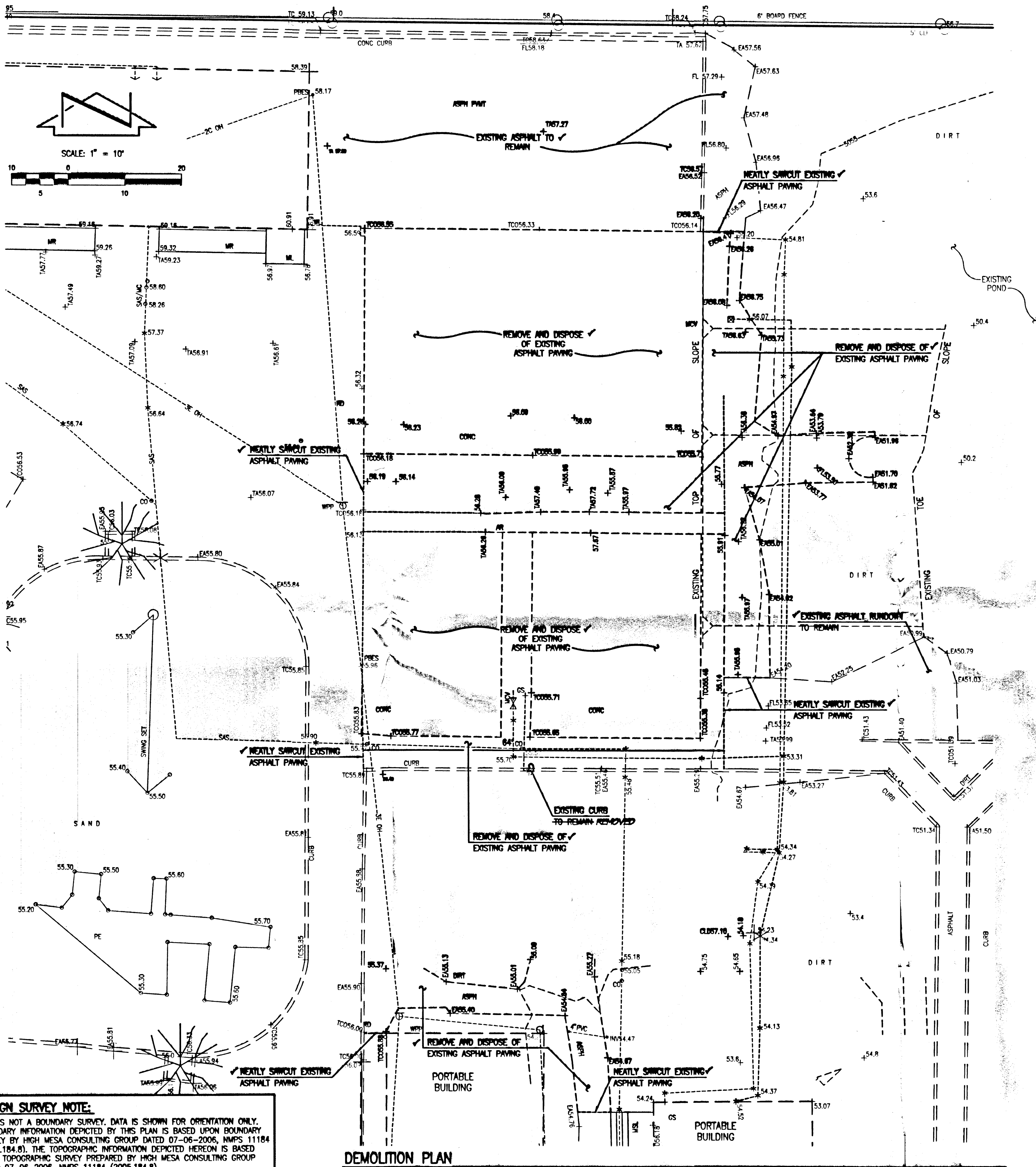
THIS IS NOT A BOUNDARY SURVEY. DATA IS SHOWN FOR ORIENTATION ONLY. BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON BOUNDARY SURVEY BY HIGH MESA CONSULTING GROUP DATED 07-06-2006, NMPS 11184 (2005.184.8). THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP DATED 07-06-2006, NMPS 11184 (2005.184.8).

HIGH MESA Consulting Group

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

OVERALL SITE PLAN
PORTABLE CLASSROOM INSTALLATION
MARY ANN BINFORD ELEMENTARY SCHOOL
1400 CORRIZ S.W.

DESIGNED BY	DATE	BY	REVISIONS	JOB NO.
JGM/JLB	07/01/10	JLB	RECORD DRAWING	2008.201.1
DRAWN BY	DATE	BY	REVISIONS	DATE
J.Y.R.				06-2010
APPROVED BY	DATE	BY	REVISIONS	SHEET
JGM				2 OF 10



SEQUENCE PLAN
(EDWARD GONZALES ELEMENTARY)
SCALE: 1" = 60'

RECORD INFORMATION LEGEND

CONSTRUCT	RECORD INFORMATION (VERIFIED BY ENGINEER)
✓	AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY ENGINEER)
3/4" 42"	RECORD INFORMATION (VERIFIED BY ENGINEER)
+28.2	RECORD INFORMATION (VERIFIED BY ENGINEER)
28.38/42	RECORD INFORMATION (VERIFIED BY ENGINEER)

KEYED NOTES

- 1ST PORTABLE (SC588) TO BE RELOCATED FROM EDWARD GONZALES SITE TO MARY ANN BINFORD ELEMENTARY SCHOOL
- 2ND PORTABLE (SC417) TO BE RELOCATED FROM EDWARD GONZALES SITE TO MARY ANN BINFORD ELEMENTARY SCHOOL
- 3RD PORTABLE (SC804) TO BE RELOCATED FROM EDWARD GONZALES SITE TO MARY ANN BINFORD ELEMENTARY SCHOOL
- 4TH PORTABLE (SC881) TO BE RELOCATED FROM EDWARD GONZALES SITE TO MARY ANN BINFORD ELEMENTARY SCHOOL
- 5TH PORTABLE (D207) TO BE RELOCATED FROM EDWARD GONZALES SITE TO MARY ANN BINFORD ELEMENTARY SCHOOL - ALTERNATE LOCATION

DESIGN SURVEY NOTE:

THIS IS NOT A BOUNDARY SURVEY. DATA IS SHOWN FOR ORIENTATION ONLY. BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON BOUNDARY SURVEY BY HIGH MESA CONSULTING GROUP DATED 07-06-2006, NMPS 111184 (2005.184.8). THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP DATED 07-06-2006, NMPS 111184 (2005.184.8).

HIGH MESA Consulting Group

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

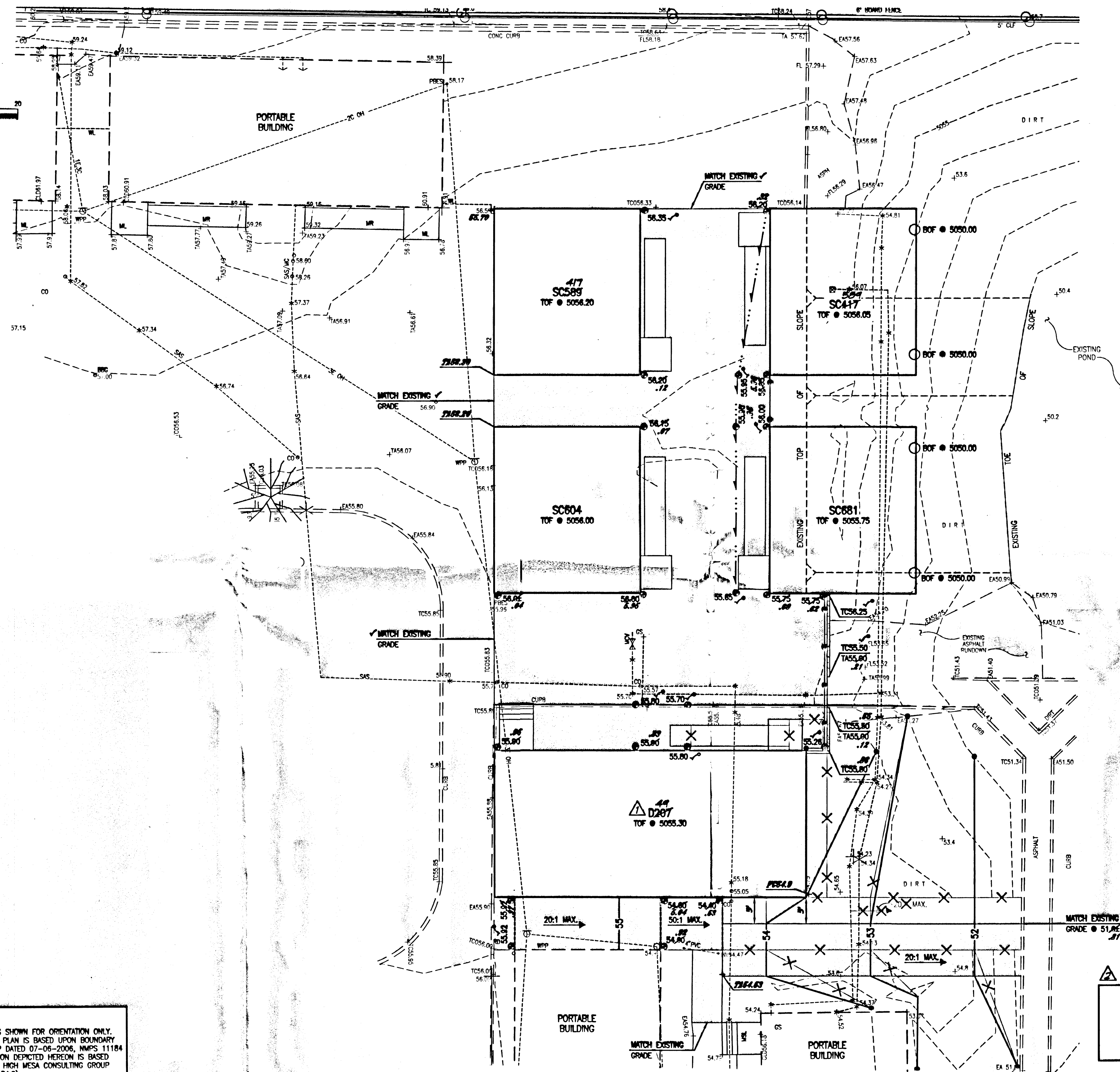
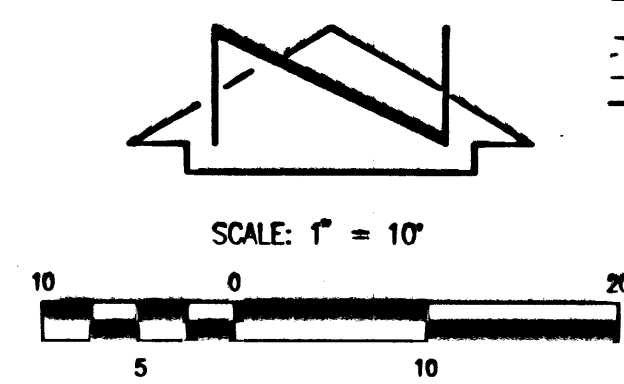
DEMOLITION PLAN

DEMOLITION PLAN / SEQUENCE PLAN
PORTABLE CLASSROOM INSTALLATION
MARY ANN BINFORD ELEMENTARY SCHOOL
1400 CORRIZ S.W.

DESIGNED BY	J.G.M./J.L.B.	DATE	06/06/2010	BY	J.L.B.	REVISIONS	JOB NO.	2008.201.1
DRAWN BY	J.Y.R.					RECORD DRAWING AND CERTIFICATION	DATE	06-2010
APPROVED BY	J.G.M.						SHEET	3 OF 10

RECEIVED
OCT 07 2010
HYDROLOGY SECTION

10-07-2010
07-15-2010



- CONSTRUCTION NOTES:**
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 280-1990 (ALBUQUERQUE AREA), 1-800-321-ALERT(2537) (STATEWIDE), FOR LOCATION OF EXISTING UTILITIES.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
 - 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.
 - ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7, AMENDMENT.
 - IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE. THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

- EROSION CONTROL MEASURES:**
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
 - THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
 - WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.

DESIGN GRADING LEGEND:

● 55.85	PROPOSED SPOT ELEVATION
---	EXISTING FLOWLINE
---	PROPOSED FLOWLINE
---	PROPOSED CONTOUR
---	EXISTING DIRECTION OF FLOW
---	PROPOSED DIRECTION OF FLOW
+	HIGH POINT
[Pattern]	PROPOSED ASPHALT PAVING
[Pattern]	PROPOSED CONCRETE
BOF	BOTTOM OF FOOTING
TA	TOP OF ASPHALT
TC	TOP OF CURB
TOF	TOP OF FOOTING

RECORD INFORMATION LEGEND

CONSTRUCT	RECORD INFORMATION (VERIFIED BY ENGINEER)
✓	AS-CONSTRUCTED = AS-DRAWING (VERIFIED BY ENGINEER)
3/5 42'	RECORD INFORMATION (VERIFIED BY ENGINEER)
+ 28.2	RECORD INFORMATION (VERIFIED BY ENGINEER)
28.95/42	RECORD INFORMATION (VERIFIED BY ENGINEER)
✓	AS-CONSTRUCTED = AS-DRAWING (TRUSTED BY AS-BUILT SURVEY)
3/1 1.1	RECORD INFORMATION FROM AS-BUILT SURVEY
+ 11.9	RECORD INFORMATION FROM AS-BUILT SURVEY
3/1 25.22	RECORD INFORMATION FROM AS-BUILT SURVEY

DESIGN SURVEY NOTE:
THIS IS NOT A BOUNDARY SURVEY. DATA IS SHOWN FOR ORIENTATION ONLY. BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON BOUNDARY SURVEY BY HIGH MESA CONSULTING GROUP DATED 07-06-2006, NMPS 111184 (2005.184.8). THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP DATED 07-06-2006, NMPS 111184 (2005.184.8).

HIGH MESA Consulting Group
4010-S MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

**GRADING PLAN
PORTABLE CLASSROOM INSTALLATION
MARY ANN BINFORD ELEMENTARY SCHOOL
1400 CORRIZ S.W.**

**RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1**

RECEIVED
OCT 07 2010
HYDROLOGY
SECTION

JEFFREY G. MORTENSEN
Professional Engineer
No. 8547
10-05-2010
07-15-2010

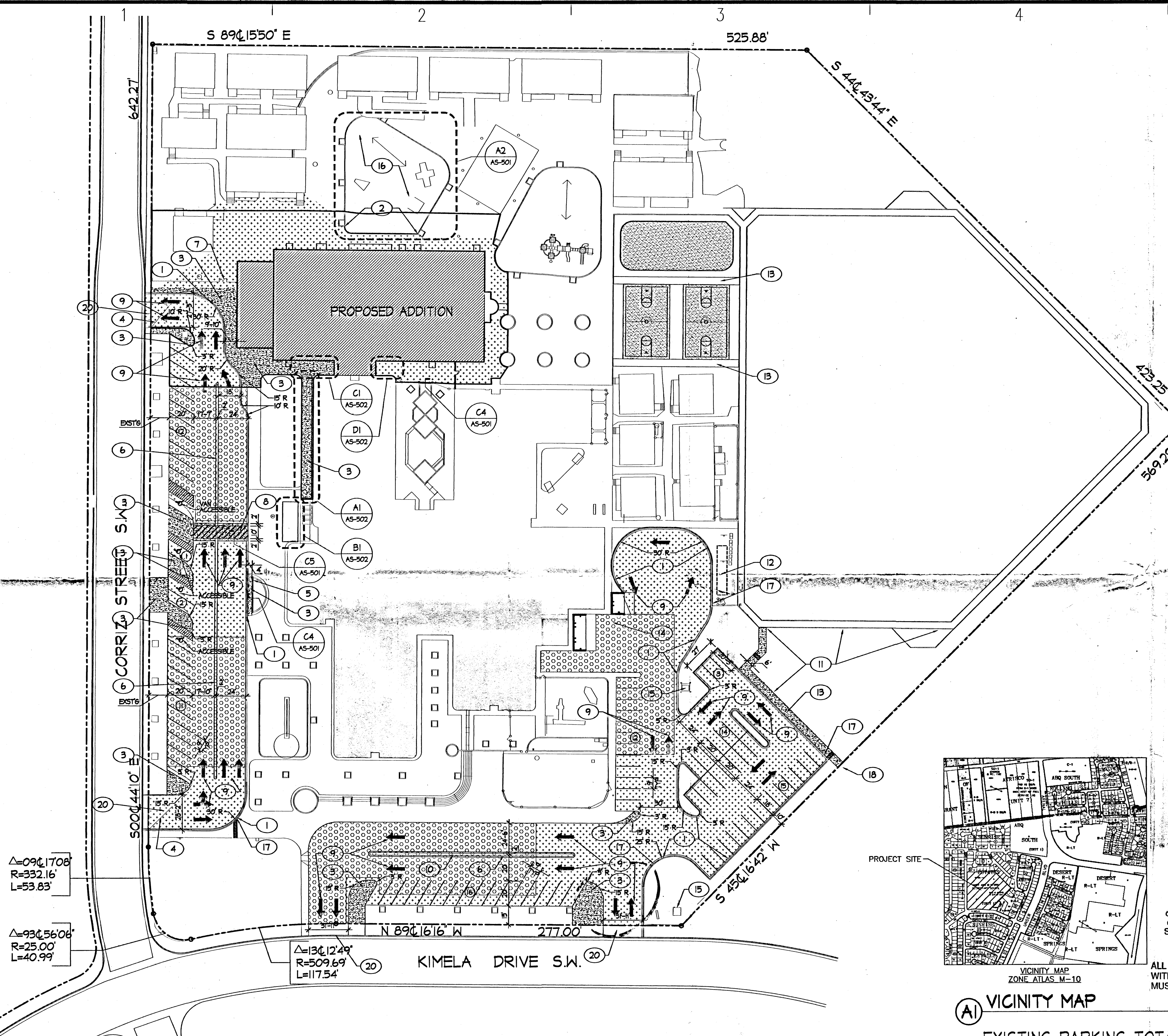
DESIGNED BY	DATE	BY	REVISIONS	JOB NO.
J.G.M./J.L.R.	07/10	J.G.M.	ADJUST FOR 80' PORTABLE	2008.201.1
DRAWN BY	09/10	J.L.R.	RECORD DRAWING & CERT.	DATE 06-2010
APPROVED BY		J.G.M.		SHEET 5 OF 10

File Path: \\DATA\GIS\2008\2011\Bldg Date: 09-28-2010
File Name: 82011_SPS_R2.DWG Plot Time: 10:40 am

FILE NAME: Albuquerque Public Schools Mary Ann Binford Elementary Design/Drumg Architecture/CD/MAEAS-01.DWG

CHECKED BY: AG

DRAWN BY: LLM

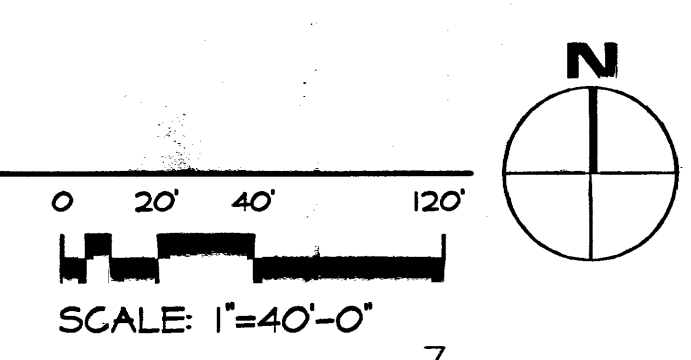


$\Delta=09\angle 1708$
 $R=332.16'$
 $L=53.83'$

$\Delta=93\angle 56'08$
 $R=25.00'$
 $L=40.99'$

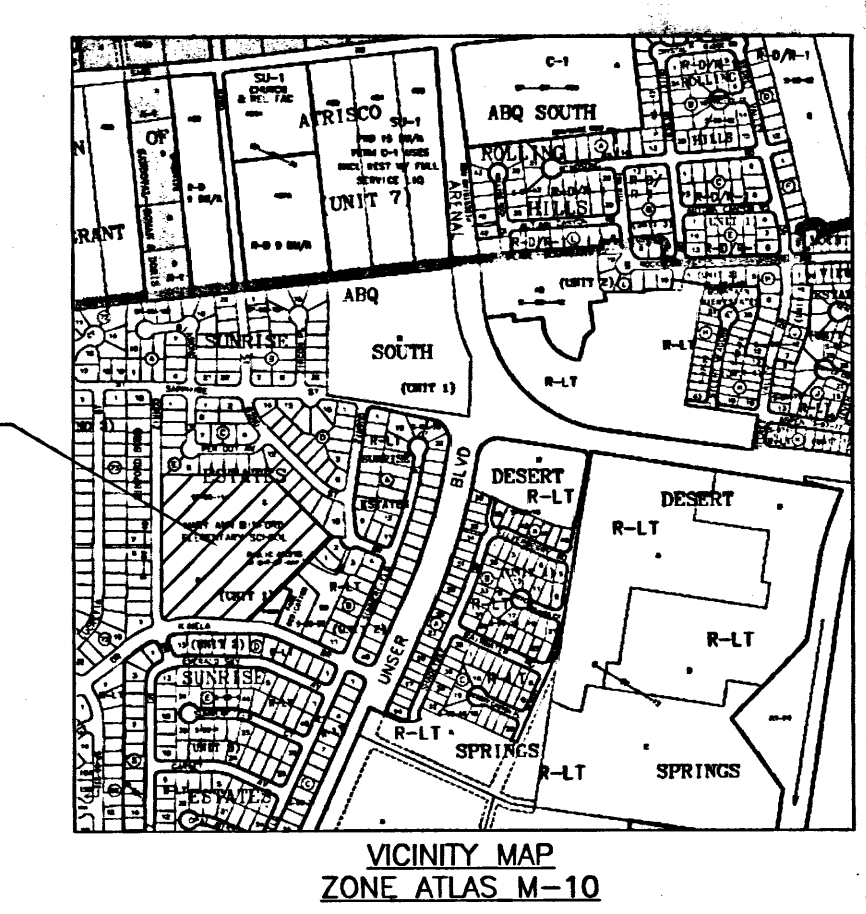
$\Delta=13\angle 12'49$
 $R=509.69'$
 $L=117.54'$

(A) SITE PLAN
SCALE 1"=40'-0"



- KEYED NOTES**
1. NEW CONCRETE CURB AND GUTTER TO MATCH EXISTING. SEE DETAIL 2/C-501
 2. NEW CONCRETE CURB TO MATCH EXISTING
 3. INFILL NEW CONCRETE TO MATCH EXISTING. SEE DETAIL 4/C-501
 4. EXISTING ENTRY/EXIT GATES TO REMAIN AND BE PAINTED
 5. PROVIDE NEW CONCRETE PLANTER WALL TO MATCH EXISTING. SEE DETAIL C4/AS-501
 6. NEW 2'-0" WIDE X 6" HIGH CONCRETE MEDIAN WITH NEW 3'-0" HIGH CHAIN LINK FENCE. SEE DETAIL B1/AS-501
 7. NEW CHAIN LINK GATE IN EXISTING CHAIN LINK FENCE
 8. NEW 6" HIGH CONCRETE SPEED BUMP/ CROSSWALK. TOP OF CONCRETE TO BE FLUSH WITH TOP OF ADJACENT CONCRETE WALKS. 2'-0" WIDE FLARES TO BE SLOPED 3" PER FOOT. PROVIDE TYPICAL PAINTED CROSSWALK STRIPING. SEE DETAIL C3/AS-501
 9. NEW PAINTED TRAFFIC DIRECTION ARROWS
 10. NEW STOP SIGN
 11. NEW 6'-0" HIGH CHAIN LINK FENCE ALONG PERIMETER OF NEW POND. PROVIDE 5'-0" WIDE GATE WITH LOCK AS SHOWN
 12. NEW LOCATION FOR EXISTING METAL STORAGE SHED (BY APS)
 13. NEW CONCRETE SIDEWALK. SEE DETAIL 4/C-501
 14. NEW CMU REFUSE ENCLOSURE W/ CONCRETE PAD. SEE DETAIL D3/AS-501
 15. EXISTING ELECTRIC TRANSFORMER TO REMAIN UNDISTURBED
 16. REFURBISHED PLAY AREA WITH NEW FENCE SURROUND. SEE DETAIL A2/AS-501
 17. PROVIDE 2'-0" CURB OPENING PER DETAIL 3/C-501
 18. PROVIDE NEW 3'-0" WIDE GATE IN EXISTING CHAIN LINK FENCE
 19. BOLLARD - 6" DIA. SEE D2/AS-501
 20. EXISTING DRIVEWAYS TO REMAIN

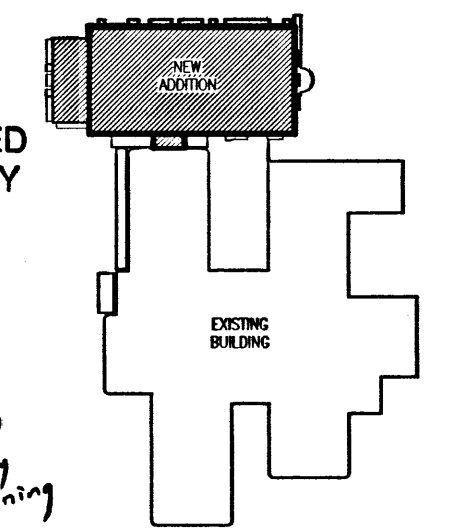
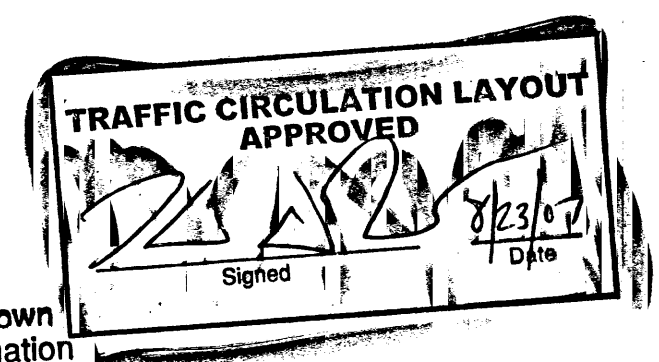
- LEGEND**
- INDICATES NEW ASPHALT PAVEMENT SECTION PER DETAIL 1 SHEET C-501
 - INDICATES AREA OF NEW BUILDING CONSTRUCTION
 - INDICATES NEW CONCRETE INFILL TO MATCH EXISTING CONCRETE
 - INDICATES NEW PLAY AREA. COORDINATE WITH APS
 - INDICATES AREA OF EXISTING ASPHALT TO BE MILLED AND OVERLAYED



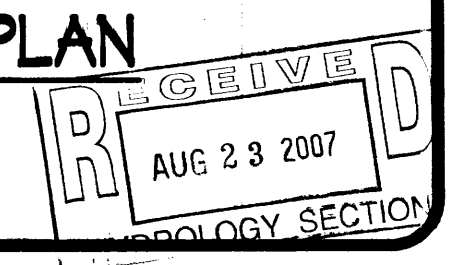
(A) VICINITY MAP

EXISTING PARKING TOTAL = 85 SPACES
REQUIRED PARKING TOTAL = 120
PROPOSED PARKING TOTAL = 86 SPACES
ACCESSIBLE REQUIRED = 4 SPACES

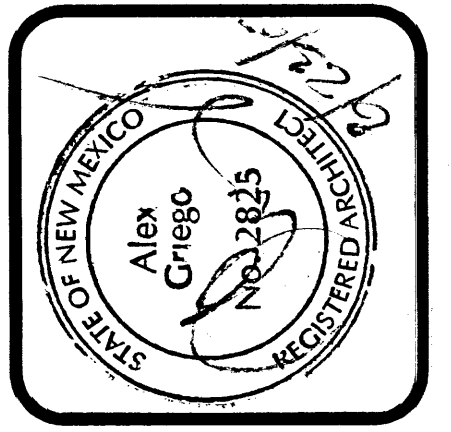
Public Infrastructure shown on these plans for information only and not part of approval. Separate DRC/Permit approval and Work Order required.



KEYPLAN



ASCG
INCORPORATED
ENGINEERS • ARCHITECTS • SURVEYORS • PLANNERS
8501 AMERICA PARKWAY, N.E. SUITE 400
ALBUQUERQUE, NEW MEXICO 87110-4372
PHONE 505.247.0284 • FAX 505.242.4845



CONSULTANTS:

MARY ANN BINFORD ELEMENTARY SCHOOL
KINDERGARTEN AND CLASSROOM ADDITION
OWNER:
ALBUQUERQUE PUBLIC SCHOOLS
6400 UPTOWN BLVD. NE
ALBUQUERQUE NM 87110

WORK	DATE	DESCRIPTION

PROJECT NO.: 020824
DATE: 03-28-07
DRAWN BY: LLM
CHK'D BY: AG

SHEET TITLE
SITE PLAN

AS-101
SHEET OF

TRACT G, VISTA NUEVA, ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON APRIL 12, 1988, BOOK C36, PAGE 69.

PROJECT BENCHMARK

ACS 3 1/4" ALUMINUM CAP STAMPED "ACS, 5-M10", SET
FLUSH AND CENTERED ON CONCRETE DROP INLET IN THE
SOUTHEAST QUADRANT OF THE INTERSECTION OF
FRESHWATER ROAD S.W. AND UNSER BOULEVARD S.W.
STATION IS LOCATED 81.4 FEET SOUTH OF CENTERLINE OF
FRESHWATER ROAD S.W. AND 53.0 FEET EAST OF
CENTERLINE OF UNSER BOULEVARD S.W.
ELEVATION = 5042.77 FEET (NAVD 1988)

T.B.M. #1

MAG NAIL IN SIDEWALK JOINT AS SHOWN ON THIS SHEET.
ELEVATION = 5055.13 FEET

T.B.M. #2

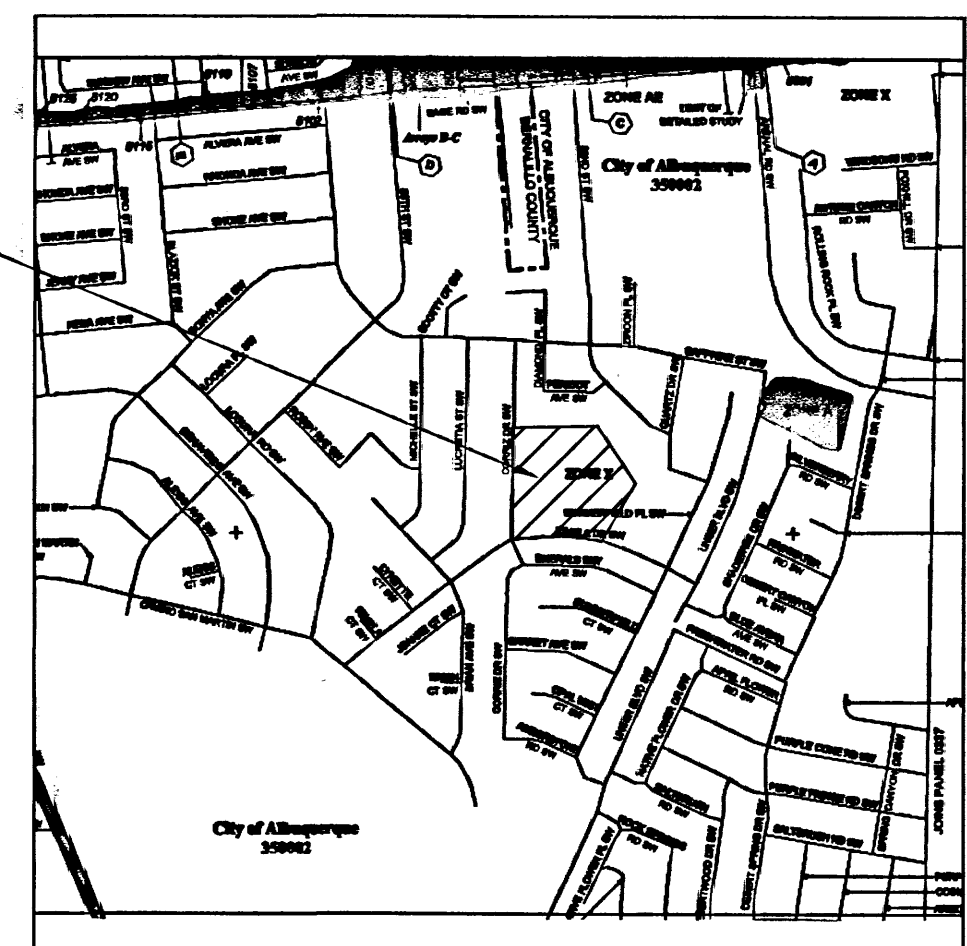
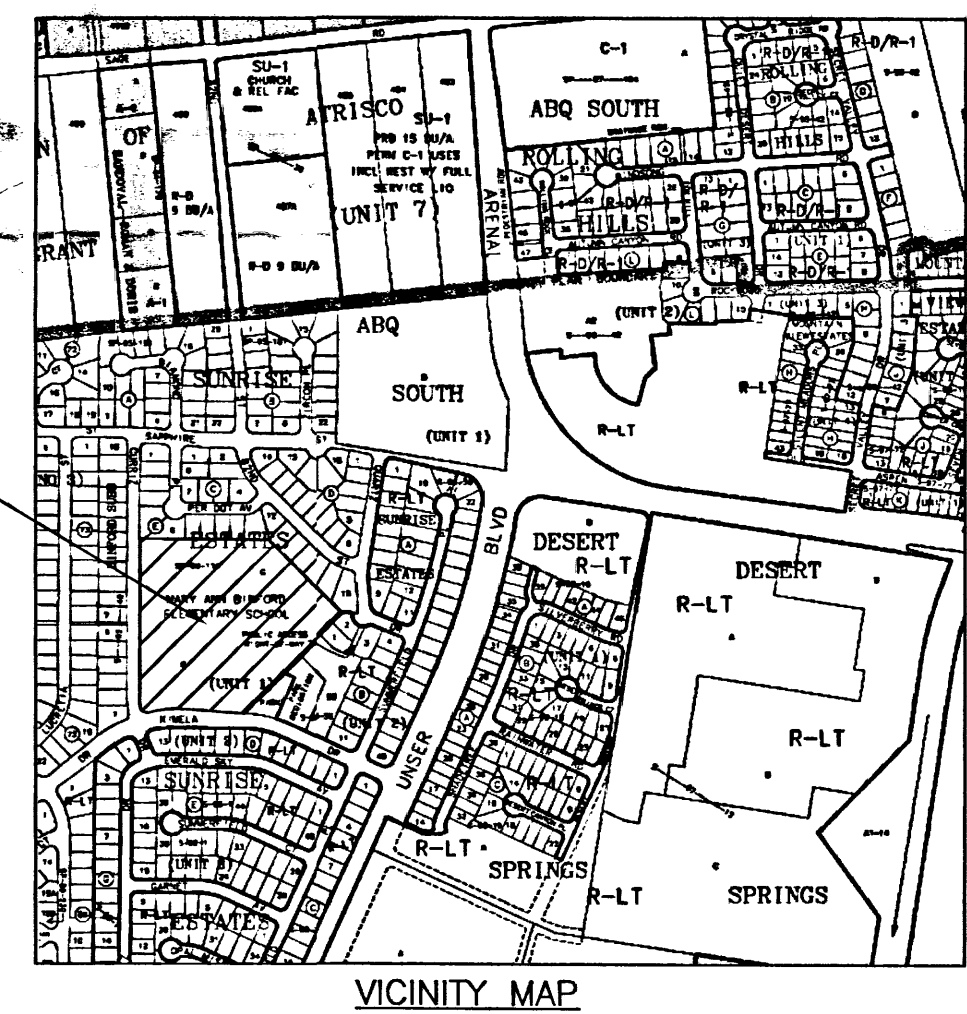
REBAR AND CAP AS SHOWN ON THIS SHEET.
ELEVATION = 5059.40 FEET

T.B.M. #3

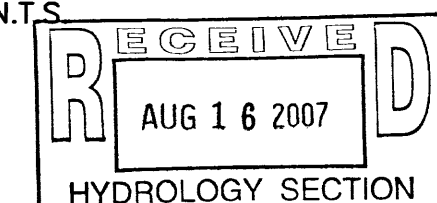
CHISELED SQUARE AS SHOWN ON THIS SHEET
ELEVATION = 5064.54 FEET

CONSTRUCTION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING. THIS INCLUDES, BUT IS NOT LIMITED TO, STORMWATER POLLUTION PREVENTION PLAN AND IMPLEMENTATION. USE BEST MANAGEMENT PRACTICES FOR EROSION CONTROL. ALL LOCAL, STATE AND FEDERAL REGULATIONS APPLY.
2. RESEED DISTURBED AREAS PER SPECIFICATION SECTION 01011, OR PER OWNER'S REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR MEETING GRADES SHOWN ON PLAN. DRAINAGE FLOW PATHS MUST NOT BE ALTERED FROM EXISTING.

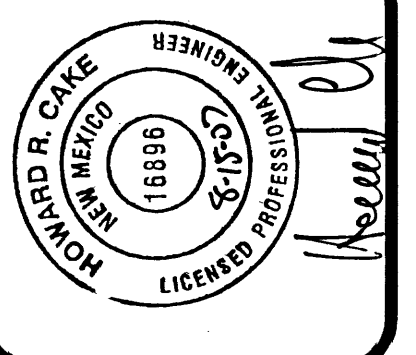


F.I.R.M.
PANEL 336 OF 825
N.T.S.



ASCG
INCORPORATED
ENGINEERS • ARCHITECTS • SURVEYORS • PLANNERS

6501 AMERICAS PARKWAY NE, SUITE 400
ALBUQUERQUE, NEW MEXICO 87110-5372
PHONE 505.247.0284 • FAX 505.242.4843



CONSULTANTS:

**MARY ANN BINFORD ELEMENTARY SCHOOL
KINDERGARTEN AND CLASSROOM ADDITION**

OWNER:
ALBUQUERQUE PUBLIC SCHOOLS
6400 UPTOWN BLVD. NE
ALBUQUERQUE NM 87110

[illegible]

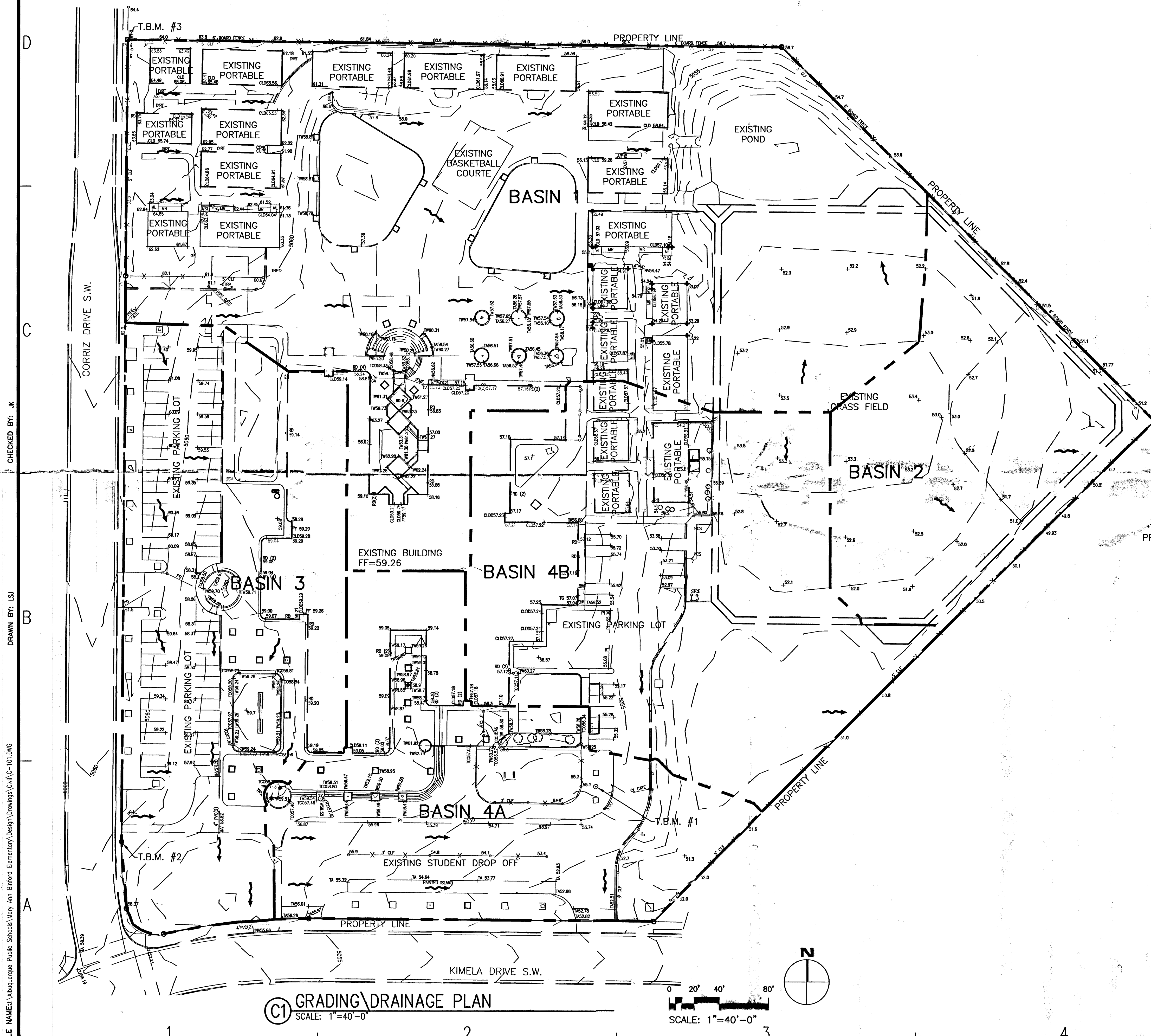
PROJECT NO.:	020824
DATE:	04-29-07
DRAWN BY:	LSJ
CHK'D BY:	KJ

SHEET TITLE

CIVIL

GRADING/DRAINAGE PLAN

C-101
SHEET OF



(C1) GRADING\ DRAINAGE PLAN
SCALE: 1"=40'-0"

0 20' 40' 80'

SCALE: 1"=40'-0"

GRADING AND DRAINAGE PLAN PROJECT DESCRIPTION

PURSUANT TO THE DRAINAGE ORDINANCE FOR THE CITY OF ALBUQUERQUE AND THE DEVELOPMENT PROCESS MANUAL, THIS DRAINAGE REPORT OUTLINES THE DRAINAGE MANAGEMENT CRITERIA FOR CONTROLLING DEVELOPED RUNOFF FROM THE PROJECT SITE. THE PROJECT CONSISTS OF THE OF NEW CONSTRUCTION OF A 15,300 SF, SINGLE STORY BUILDING ADDITION TO THE EXISTING MARY ANN BINFORD ELEMENTARY SCHOOL. PARKING LOT AREAS WILL BE REPAVED ALONG WITH AN EXPANSION OF THE PARKING AREA IN THE SOUTHWEST CORNER OF THE SITE. PAVING, LANDSCAPING, UTILITY, GRADING, DRAINAGE IMPROVEMENTS WILL BE PROVIDED TO SUPPORT THE PROJECT. THE PURPOSE OF THIS DRAINAGE PLAN IS TO OBTAIN BUILDING PERMIT APPROVAL.

EXISTING CONDITIONS

THE PROJECT SITE IS APPROXIMATELY 14.5 ACRES IN SIZE AND LOCATED ON KIEMELA DRIVE SW AND CORRIZ DRIVE SW. THE SITE IS PRESENTLY DESCRIBED AS TRACT G, VISTA NEVA. THE SITE IS BOUNDED ON THE NORTH BY EXISTING HOUSING, ON THE EAST BY EXISTING HOUSING AND VISTA NEVA PARK, ON THE SOUTH BY KIEMELA DRIVE SW, AND ON THE WEST BY CORRIZ DRIVE SW. THE PROPERTY IS PRESENTLY DEVELOPED FOR USE AS AN ELEMENTARY SCHOOL WITH ASSOCIATED INFRASTRUCTURE TO SUPPORT THE SCHOOL.

THE SITE IS DEVELOPED AND BROKEN INTO 4 DRAINAGE BASINS. BASIN 1 DRAINS TO THE EXISTING POND LOCATED ON THE NORTHWEST CORNER OF THE SITE. BASIN 2 DRAINS TO THE EAST AND RUNS TO VISTA NEVA PARK. BASIN 3 DRAINS TO THE SOUTHWEST CORNER OF THE EXISTING PARKING LOT TO DUAL 4" PVC PIPES THAT CARRY THE FLOW TO A LANDSCAPE AREA ON THE SOUTH WEST CORNER OF THE SITE. THIS LANDSCAPE AREA DRAINS VIA DUAL 4" PVC PIPES INTO KIEMELA DRIVE, WHERE THE WATER IS CONVEYED AWAY FROM THE SITE. BASIN 4 DRAINS ALONG THE EXISTING PARKING LOT INTO KIEMELA DRIVE SW AND CONVEYED AWAY FROM THE SITE. THE SITE IS NOT AFFECTED BY OFF-SITE DRAINAGE BASINS.

AS SHOWN BY FIRM PANEL 3500103360, THE PROJECT SITE IS NOT WITHIN A DESIGNATED 100-YEAR FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE X WHICH IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN."

PROPOSED CONDITIONS

AS SHOWN BY THE PLAN, THE PROJECT CONSISTS OF AN ADDITION TO THE EXISTING SCHOOL AND TO EXPAND THE SOUTHWEST CORNER OF THE SITE TO INCLUDE ADDITIONAL PARKING. THE NEW BUILDING ADDITION WILL BE CONSTRUCTED IN BASIN 1, BUT AS THE BUILDING LOCATION WAS EXISTING THERE IS NO ADDITIONAL IMPERVIOUS AREA AND CHANGE TO THE RUNOFF. BASIN 2 WILL SEE NO CHANGES PER THE PROPOSED PLAN. BASIN 3 WILL REMOVE AND REPLACE PORTIONS OF AN EXISTING PARKING LOT. NO ADDITIONAL IMPERVIOUS AREA IS ADDED TO THE SITE AND THE DRAINAGE PATH WILL REMAIN DUE TO THE LACK OF CHANGES IN BASINS 1-3 NO CALCULATIONS HAVE BEEN PERFORMED ON THESE BASINS.

BASIN 4 HAS BEEN DIVIDED TO BASIN 4A AND BASIN 4B TO ACCOUNT FOR THE CHANGE IN OUTFALL PATTERNS. BASIN 4A CONSISTS OF THE SOUTHERN PORTION OF BASIN 4. BASIN 4A WILL OUTFALL TO KIEMELA DRIVE FOLLOWING HISTORICAL FLOW PATTERNS. EXISTING BASIN 4 HAD A PEAK DISCHARGE OF 12.42 CFS WHILE THE PROPOSED BASIN 4A WILL REDUCE DISCHARGE TO 6.19 CFS. BASIN 4B CONSISTS OF THE NORTHERN PORTION OF BASIN 4 AND DISCHARGES TO RETENTION POND 4B. POND 4B IS A 0.470 ACRE-DEEP POND WHICH WILL RETAIN THE FLOW FROM BASIN 4B. AS SHOWN ON THE CALCULATIONS, BASIN 4B HAS A DISCHARGE VOLUME OF 0.370 ACRE FEET AND POND 4B PROVIDES 0.470 ACRE FEET OF STORAGE WITH 1 FOOT OF FREEBOARD. THERE WILL BE NO OFF-SITE FLOW FROM BASIN 4B. BASED ON THIS THE DRAINAGE FROM BASIN 4 WILL BE REDUCED TO LESS THAN HISTORICAL.

CALCULATIONS

THE CALCULATIONS CONTAINED HEREIN DEFINE THE 100-YEAR/6-HOUR DESIGN STORM FALLING WITHIN THE PROJECT AREA UNDER EXISTING AND DEVELOPED CONDITIONS. THEY HYDROLOGY IS PER CHAPTER 22, DEVELOPMENT PROCESS MANUAL, VOL. 2, 1997 REVISION. CALCULATIONS ARE PROVIDED TO DEMONSTRATE THE CAPACITY AND FUNCTION OF ALL PROPOSED STORM DRAINAGE INFRASTRUCTURES.

KEYED NOTES

1. NEW CONCRETE CURB AND GUTTER TO MATCH EXISTING. SEE DETAIL 2/C-501
2. NEW CONCRETE CURB TO MATCH EXISTING
3. INFILL NEW CONCRETE TO MATCH EXISTING. SEE DETAIL 4/C-501
4. PROVIDE NEW CONCRETE PLANTER WALL TO MATCH EXISTING SEE DETAIL C4/AS-501
5. NEW 2'-0" WIDE X 6" HIGH CONCRETE MEDIAN WITH NEW 3'-0" HIGH CHAIN LINK FENCE. SEE DETAIL B1/AS-501
6. NEW 6" HIGH CONCRETE SPEED BUMP/ CROSSWALK. TOP OF CONCRETE TO BE FLUSH WITH TOP OF ADJACENT CONCRETE WALKS. 2'-0" WIDE FLARES TO BE SLOPED 3" PER FOOT. PROVIDE TYPICAL PAINTED CROSSWALK STRIPING. SEE DETAIL C5/AS-501
7. NEW CONCRETE SIDEWALK. SEE DETAIL 4/C-501
8. NEW CMU REFUSE ENCLOSURE W/ CONCRETE PAD. SEE DETAIL D3/AS-501
9. PROVIDE 2'-0" CURB OPENING PER DETAIL 3/C-501
10. INTERIOR RETAINING WALL, SEE STRUCTURAL PLANS.

LEGEND

- INDICATES NEW ASPHALT PAVEMENT SECTION PER DETAIL 1 SHEET C-501
- INDICATES AREA OF NEW BUILDING CONSTRUCTION
- INDICATES NEW CONCRETE INFILL TO MATCH EXISTING CONCRETE
- INDICATES AREA OF EXISTING ASPHALT TO BE MILLED AND OVERLAYED
- DIRECTION OF FLOW
- PROPOSED BASIN BOUNDARY
- WATER BLOCK

CONSTRUCTION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING. THIS INCLUDES, BUT IS NOT LIMITED TO, STORMWATER POLLUTION PREVENTION PLAN AND IMPLEMENTATION. USE BEST MANAGEMENT PRACTICES FOR EROSION CONTROL. ALL LOCAL, STATE AND FEDERAL REGULATIONS APPLY.
2. RESEED DISTURBED AREAS PER SPECIFICATION SECTION 01011, OR PER OWNER'S REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR MEETING GRADES SHOWN ON PLAN. DRAINAGE FLOW PATHS MUST NOT BE ALTERED FROM EXISTING.

CALCULATIONS

ZONE 1

BASIN 1 EXISTING CONDITIONS:
TOTAL AREA = 4.16 AC
LAND TREATMENT: 1.04 AC 'C', 3.12 AC 'D'
Q_{P100} = (1.04 X 2.87)+(3.12 X 4.37) = 16.62 CFS
EXCESS PRECIPITATION (E)=[(1.04AC X 0.99IN)+(3.12AC X 1.97IN)]/1.12AC = 1.73 IN.
VOLUME (V360)=(1.73 IN X 4.16 AC)/12 = 0.60 AC-FT.

BASIN 2 EXISTING CONDITIONS:
TOTAL AREA=1.12 AC
LAND TREATMENT: 1.01 AC 'B', 0.11 AC 'D'
Q_{P100} = (1.01 X 2.03)+(0.11 X 4.37) = 2.53 CFS
EXCESS PRECIPITATION (E)=[(1.01AC X 0.67IN)+(0.11AC X 1.97IN)]/1.12AC = 0.80 IN.
VOLUME (V360)=(0.80 IN X 1.12 AC)/12 = 0.07 AC-FT.

CALCULATIONS CONT.

BASIN 3 EXISTING CONDITIONS:
TOTAL AREA = 1.75 AC
LAND TREATMENT: 0.35 AC 'C', 1.40 AC 'D'
Q_{P100} = (0.35 X 2.87)+(1.40 X 4.37) = 7.12 CFS
EXCESS PRECIPITATION (E)=[(0.35AC X 0.99IN)+(1.40AC X 1.97IN)]/1.75AC = 1.77 IN.
VOLUME (V360)=(1.77 IN X 1.75 AC)/12 = 0.26 AC-FT.

BASIN 4 EXISTING CONDITIONS:
TOTAL AREA = 3.44 AC
LAND TREATMENT: 0.68 AC 'B', 0.68 AC 'C', 2.08 AC 'D'
Q_{P100} = (0.68 X 2.03)+(0.68 X 2.87)+(2.08 X 4.37) = 12.42 CFS
EXCESS PRECIPITATION (E)=[(0.68AC X 0.67IN)+(0.68AC X 0.99IN)+(2.08 X 1.97IN)]/3.44AC = 1.56 IN.
VOLUME (V360)=(1.56 IN X 3.44 AC)/12 = 0.44 AC-FT. = 18,971 CF.

BASIN 4 PROPOSED CONDITIONS:

BASIN 4 HAS BEEN DIVIDED INTO BASINS 4A AND 4B TO ACCOUNT FOR DIFFERING DRAINAGE OUTFALL PATTERNS.

BASIN 4A:
TOTAL AREA=1.46 AC
LAND TREATMENT: 0.05 AC 'B', 0.05 AC 'C', 1.36 AC 'D'
Q_{P100} = (0.05 X 2.03)+(0.05 X 2.87) +(1.36 X 4.37) = 6.19 CFS
EXCESS PRECIPITATION (E)=[(0.05AC X 0.67IN)+(0.05AC X 0.99IN)+(1.36AC X 1.97IN)]/1.46AC = 1.89 IN.
VOLUME (V360)=(1.89 IN X 1.46 AC)/12 = 0.23 AC-FT. = 10,019 CF.

BASIN 4B:
TOTAL AREA=1.98 AC
LAND TREATMENT: 0.35 AC 'B', 0.35 AC 'C', 1.27 AC 'D'
Q_{P100} = (0.35 X 2.03)+(0.35 X 2.87) +(1.27 X 4.37) = 7.26 CFS
EXCESS PRECIPITATION (E)=[(0.35AC X 0.67IN)+(0.35AC X 0.99IN)+(1.27AC X 1.97IN)]/1.98AC = 1.56 IN.
VOLUME (V360)=(1.56 IN X 1.98 AC)/12 = 0.26 AC-FT. = 11,212 CF.
VOLUME (100AY)= 0.26 AC-FT+1.27 AC X (3.67 IN-2.20 IN)/12 IN/FT=0.37 AC-FT=15,955 CF

BASIN 4A WILL OUTFALL TO KIEMELA DRIVE FOLLOWING HISTORICAL FLOW PATTERNS. EXISTING BASIN 4 HAD A PEAK DISCHARGE OF 12.42 CFS WHILE THE PROPOSED BASIN 4A WILL REDUCE DISCHARGE TO 6.19 CFS. BASIN 4B WILL OUTFALL TO POND 4B WHICH WILL RETAIN THE PROPOSED FLOW IN AN ON-SITE RETENTION POND. THE 100 YEAR, 10 DAY VOLUME IS 0.37 AC-FT. THE PROPOSED POND PROVIDES 0.47 AC-FT W/ 1 FT. OF FREEBOARD.

POND 4B: POND VOLUME = 0.47 AC-FT W/ 1 FT. FREEBOARD
MAX. WATER SURFACE ELEVATION POND 4B = 5050 FT.

REFERENCES:

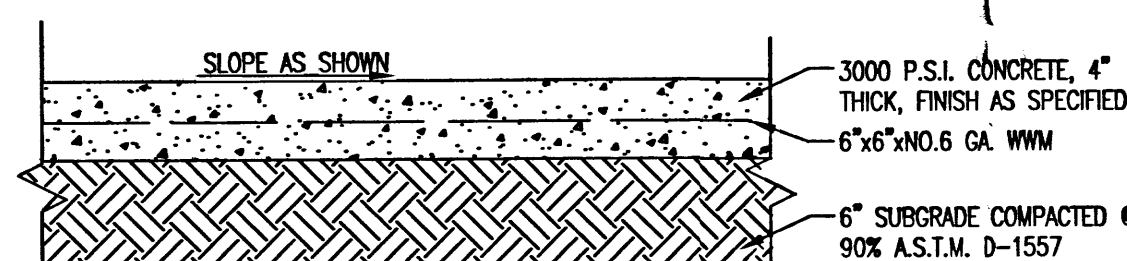
- 1) CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, SECTION 22.2, HYDROLOGY.
- 2) GRADING AND DRAINAGE PLAN, SHEET S2, WESTGATE ELEMENTARY SCHOOL, SEPTEMBER 1983.

POINT DATA TABLES

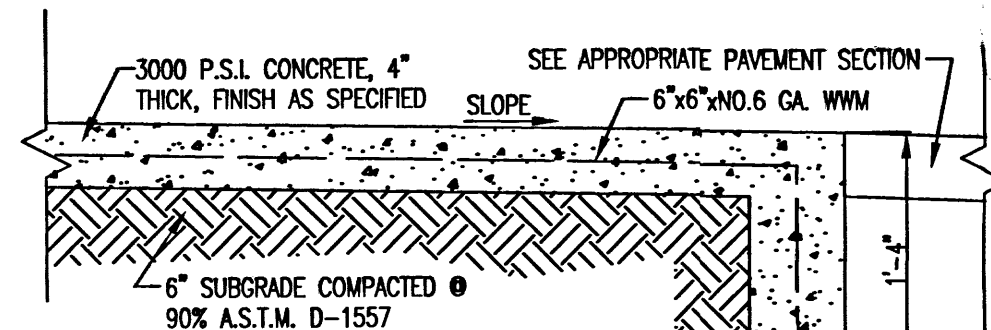
NO.	Northing	Easting	Elevation	Desc	NO.	Northing	Easting	Elevation	Desc	NO.	Northing	Easting	Elevation	Desc
1	9355.67	10455.28	5052.51	FL	68	9071.87	10449.09	5052.44	FL	135	9304.33	10421.74	5054.05	FL
2	9329.03	10019.78	5062.06	FL	69	9071.87	10449.09	5052.44	FL	136	9304.42	10410.95	5054.77	FL
3	9318.94	10029.61	5061.52	FL	70	9313.59	10063.51	5060.17	TP	137	9298.42	10410.89	5054.83	FL
4	9314.40	10029.57	5061.46	FL	71	9313.35	10092.85	5060.00	TP	138	9298.33	10421.69	5054.11	FL
5	9311.86	10025.01	5061.66	FL	72	9024.16	10416.86	5053.84	FL	139	9304.75	10373.61	5056.01	FL
6	9321.27	10009.63	5062.61	FL	73	9020.60	10425.39	5054.14	FL	140	9304.82	10365.64	5056.54	FL
7	9281.94	10072.82	5058.70	FL	74	9036.87	10441.67	5053.11	FL	141	9298.59	10410.89	5056.36	FL
8	9326.48	10053.68	5060.00	FL	75	9041.11	10441.67	5053.01	FL	142	9291.62	10411.67	5059.15	TP
9	9193.82	10008.48	5061.65	FL	76	9052.78	10430.00	5053.18	FL	143	9286.78	10425.15	5058.96	TP
10	9186.08	10021.12	5060.86	FL	77	8993.67	10484.84	5052.23	FL	144	9286.85	10417.10	5058.96	TP
11	9175.25	10028.16	5060.34	FL	78	8993.11	10537.83	5051.10	FL	145	9291.91	10412.15	5059.00	TP
12	9173.18	10071.94	5058.41	FL	79	8983.11	10537.83	5051.10	FL	146	9292.14	10088.50	5059.30	TP
13	9159.18	10071.81	5058.38	FL	80	8976.51	10545.37	5051.00	SW	147	9287.19	10082.84	5059.35	TP
14	9153.86	10028.12	5060.14	FL	81	8980.75	10549.61	5051.00	SW	148	9303.68	10092.77	5059.66	TP
15	9160.64	10008.28	5061.45	FL	82	9291.75	10129.02	5059.05	FL	149	9303.68	10117.77	5059.15	TP
16	9150.24	10008.08	5061.37	FL	83	9022.07	10465.00	5052.55	FL	150	9382.68	10093.42	5060.30	TP
17	9142.50	10020.72	5060.42	FL	84	9017.77	10460.76	5052.73	FL	151	9392.35	10093.49	5059.75	TP
18	9129.57	10027.90	5059.98	FL	85	8987.53	10366.80	5055.80	FL	152	9392.24	10106.16	5059.15	TP
19	9125.88	10027.86	5059.95	FL	86	8973.01	10416.44	5054.31	FL	153	9392.03	10131.83	5059.15	TP
20	9123.35	10023.30	5060.20	FL	87	8952.74	10416.44	5054.31	FL	154	9391.81	10158.83	5058.07	TP
21	9132.77	10007.90	5061.29	FL	88	8937.65	10431.89	5053.88	FL	155	9391.59	10185.49	5058.56	TP
22	9111.84	10012.62	5061.20	FL	89	8942.77	10433.92	5053.31	FL	156	9391.40	10208.82	5057.17	TP
23	9104.15	10018.00	5060.03	FL	90	8954.84	10428.85	5054.03	FL	157	9390.97	10262.94	5056.46	TP
24	9091.23	10027.35	5059.70	FL	91	8967.57	10434.58	5054.15	FL	158	9352.75	10267.52	5056.97	TP
25	9087.16	10027.31	5059.67	FL	92	8979.58	10422.58	5054.35	FL	159	9340.42	10267.39	5056.97	TP
26	9084.62	10022.75	5059.91	FL	93	8942.02	10366.32	5054.40	FL	160	9302.31	10261.98	5056.50	TP
27	9094.01	10007.38	5060.85	FL	94	8941.89	10383.28	5054.20	FL	161	9437.83	10118.96	5061.50	TP
28	9137.04	10071.64	5058.37	FL	95	8936.88	10385.48	5054.10	FL	162	9427.73	10114.71	5061.40	TP
29	9094.98	10071.13	5057.87	FL	96	8931.96	10374.26	5053.80	FL	163	9433.47	10111.80	5062.20	TP
30	8978.55	10006.48	5060.03	FL	97	8932.07	10359.89	5053.80	FL	164	9434.08	10061.83	5062.50	TP
31	8967.30	10024.90	5059.35	FL	98	8932.28	10332.62	5054.11	FL	165	9429.71	10061.77	5062.40	TP
32	8962.70	10025.63	5059.29	FL	99	8932.35	10305.39	5054.53	FL	166	9429.84	10044.85	5062.40	TP
33	8955.38	10012.67	5059.56	FL	100	9099.64	10378.21	5055.72	FL	167	9390.69	10044.60	5061.60	TP
34	8927.27	10007.10	5059.25	FL	101	9127.86	10366.48	5056.40	FL	168	9362.80	10003.34	5062.40	TP
35	8927.18	10026.09	5058.41	FL	102	9142.71	10364.37	5056.60	FL	169	9361.61	9994.77	5063.10	SW
36	8927.11	10039.93	5058.20	FL	103	9169.37	10394.46	5054.63	FL	170	9357.87	9994.74	5062.78	SW
37	8935.76	10061.18	5056.94	FL	104	9169.17	10415.28	5054.08	FL	171	9361.61	10063.91	5060.80	TP
38	8953.99	10069.91	5057.57	FL	105	9138.87	10444.98	5051.93	FL	172	9303.01	10175.10	5059.15	TP
39	8965.91	10070.14	5057.68	FL	106	9416.32	10145.50	5058.44	TP	173	9291.34	10175.00	5059.15	TP
40	8965.21	10151.80	5055.86	FL	107	9411.03	10145.48	5057.95	TP	174	9286.09	10191.38	5058.80	TP
41	8921.01	10061.16	5056.80	FL	108	8978.60	10417.68	5054.45	FL	175	9285.91	10210.58	5058.55	TP
42	8852.21	10151.80	5055.86	FL	109	9410.95	10150.17	5057.77	FL	176	9284.69	10238.48	5056.90	TP
43	8872.31	10151.98	5055.72	FL	110	9405.10	10155.87	5057.80	FL	177	9284.45	10261.95	5056.50	TP
44	8887.18	10167.12	5055.60	FL	111	9404.63	10209.24	5057.70	FL	178	9284.41	10270.92	5056.40	TP
45	8887.14	10171.66	5055.70	FL	112	9407.10	10212.83	5057.66	FL	179	9289.15	10274.98	5056.71	TP
46	8882.62	10174.22	5056.06	FL	113	9405.48	10371.67	5055.85	FL	180	9298.18	10280.87	5056.65	TP
47	8887.20	10165.13	5055.18	FL	114	9415.35	10381.73	5055.80	FL	181	9310.29	10280.87	5056.50	TP
48	8865.95	10305.61	5053.91	FL	115	9415.09	10426.59	5055.00	FL	182	9328.20	10281.30	5056.38	TP

BUS LANES, PARKING AREAS, ACCESS ROAD AND SERVICE AREA

1 ASPHALT PAVEMENT SECTION N.T.S.

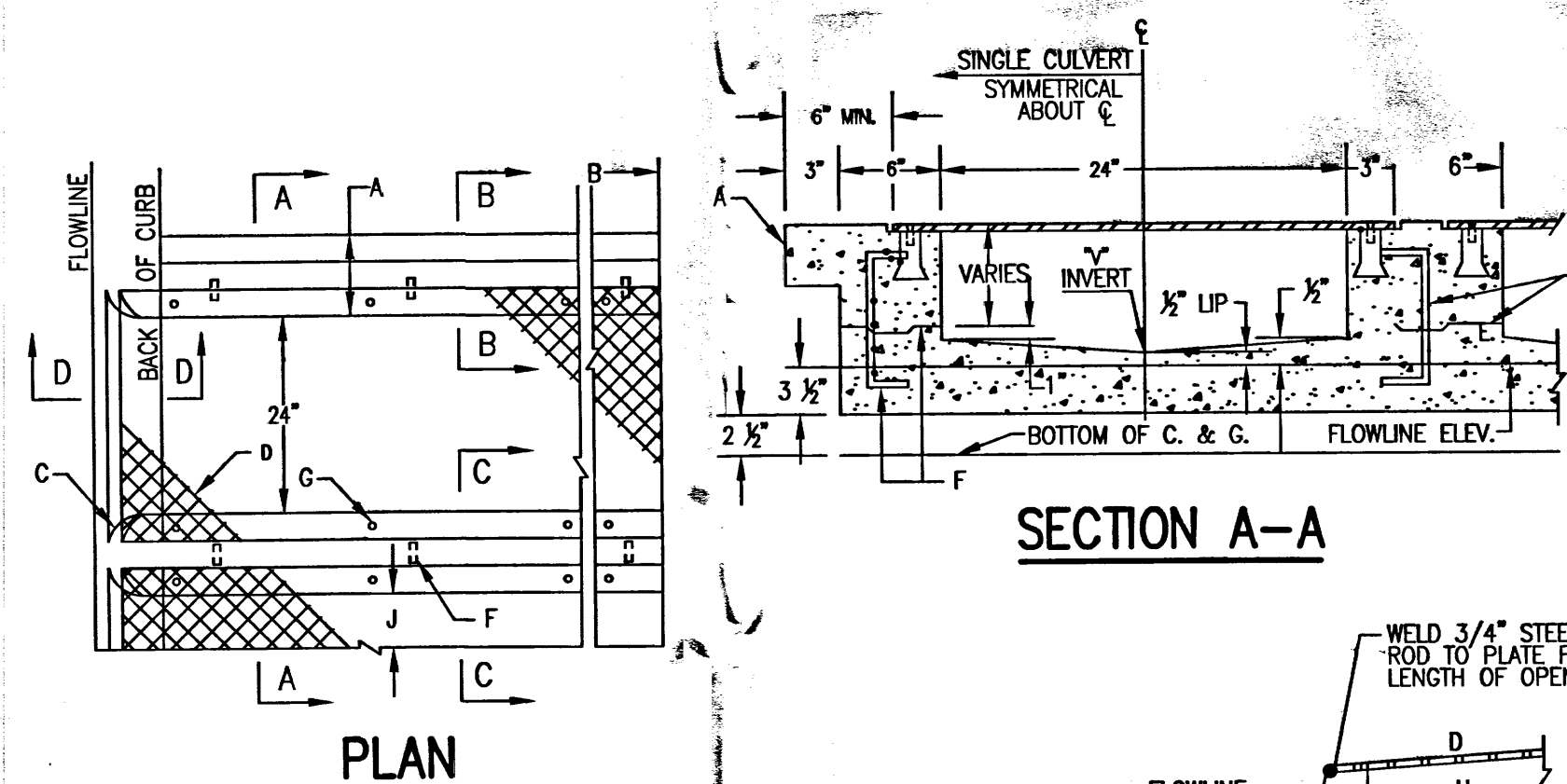


TYPICAL SECTION

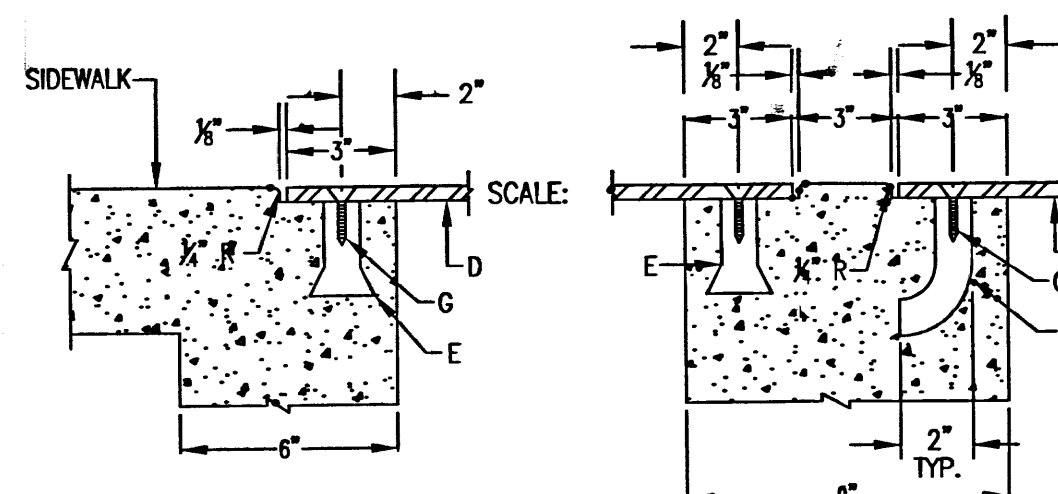


TURNDOWN SIDEWALK

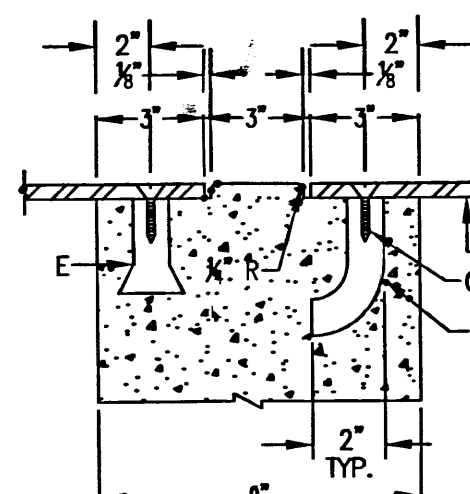
4 SIDEWALK SECTION SCALE: N.T.S.



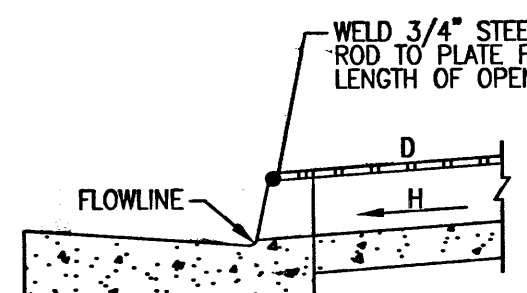
PLAN



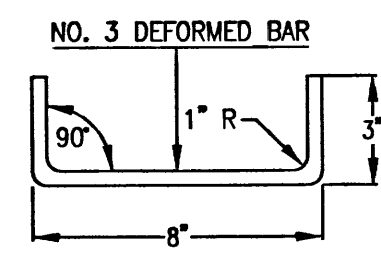
SECTION B-B



SECTION C-C

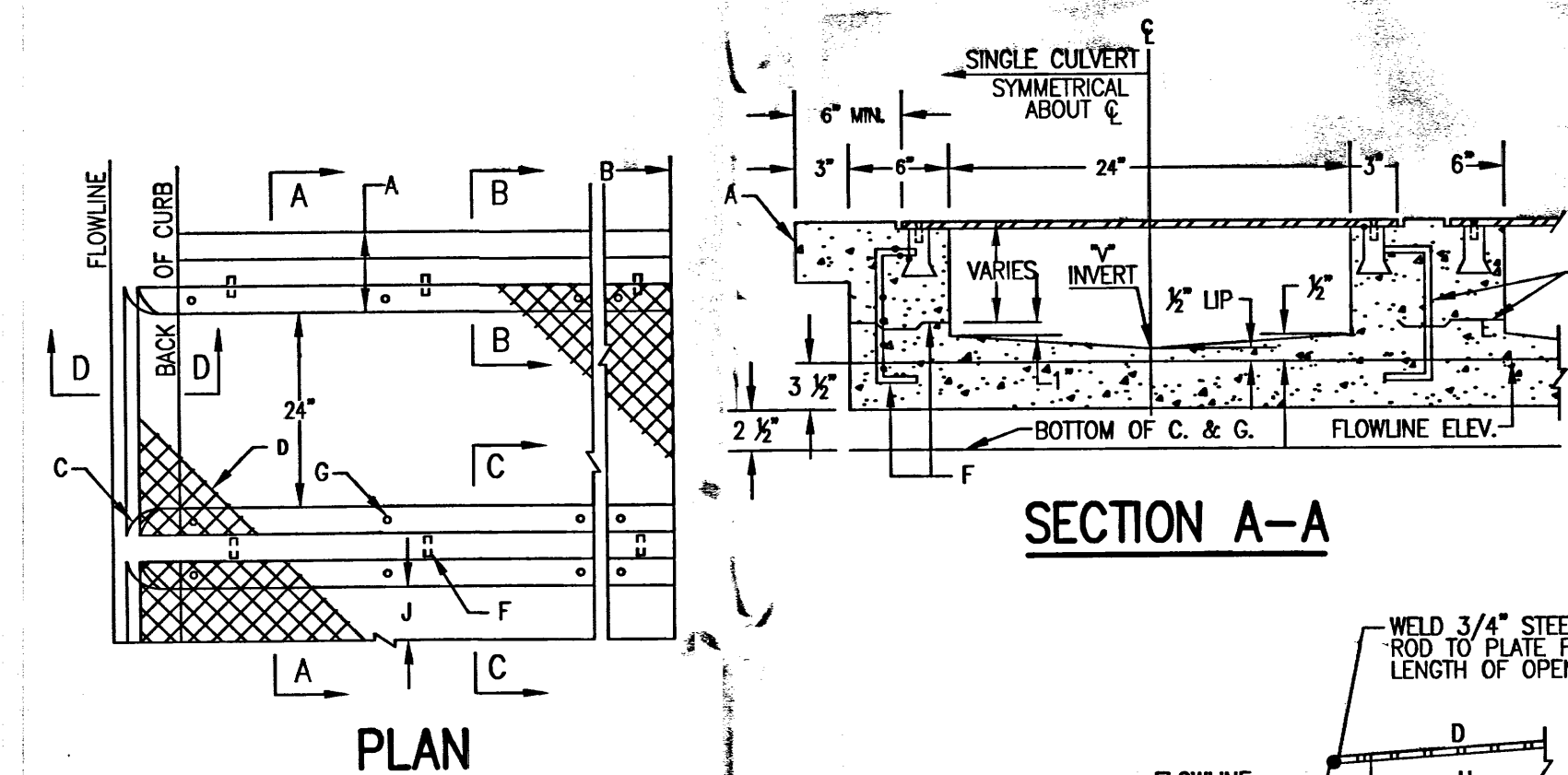


SECTION D-D

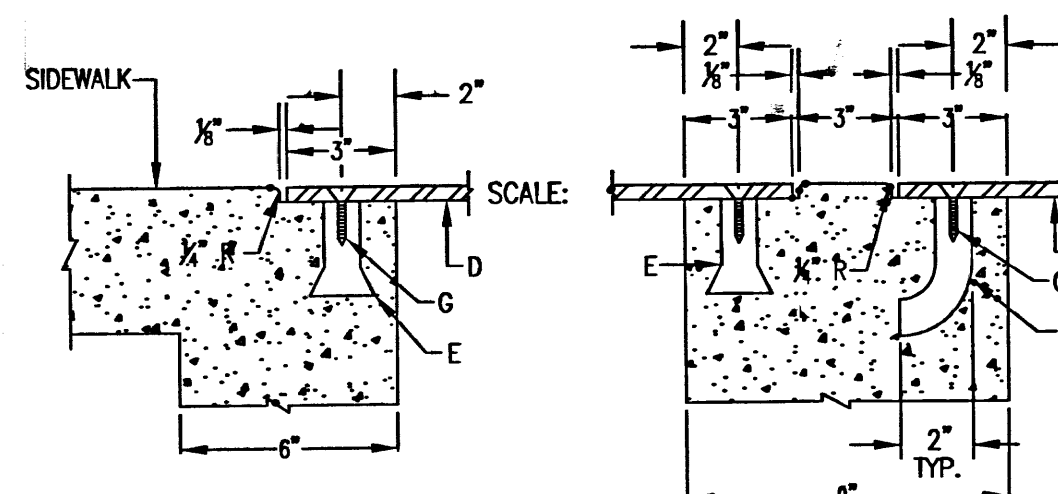


DOWEL DETAIL

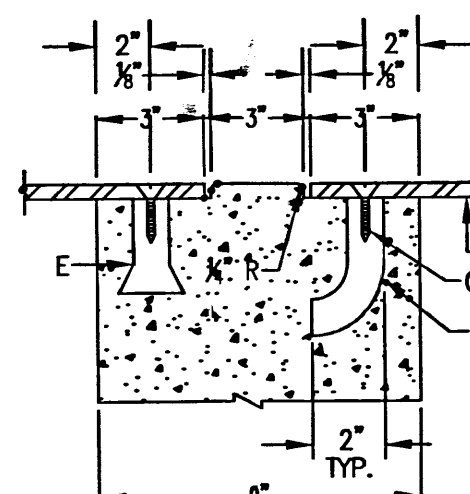
7 DRAINAGE SIDEWALK CULVERT DETAIL SCALE: N.T.S.



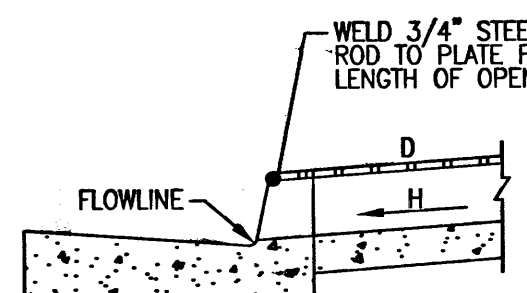
PLAN



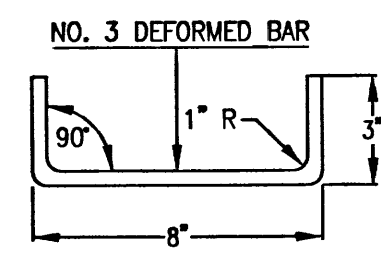
SECTION B-B



SECTION C-C

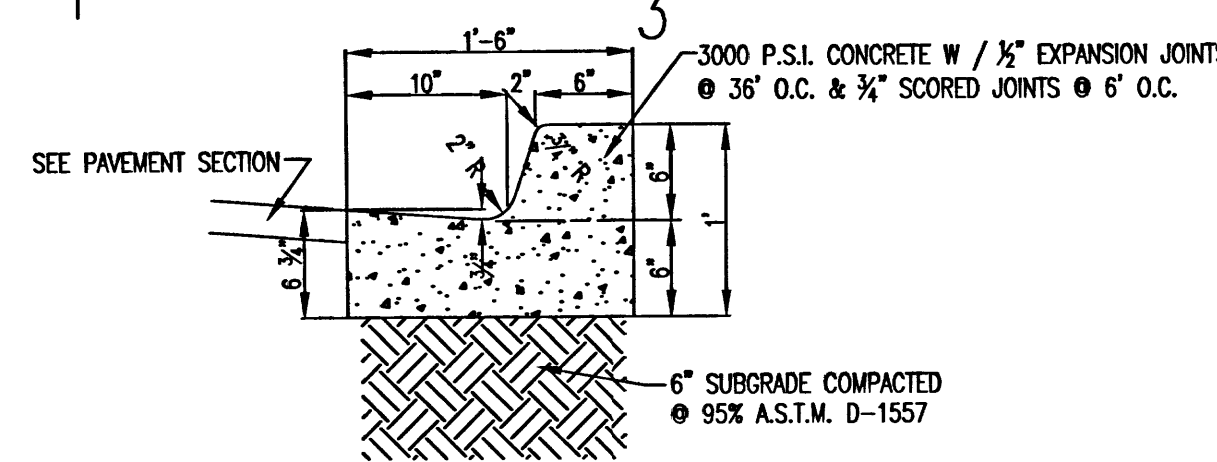


SECTION D-D



DOWEL DETAIL

2 6" CURB AND GUTTER SECTION SCALE: N.T.S.



PLAN

5 RIPRAP DETAIL SCALE: N.T.S. NOT USED

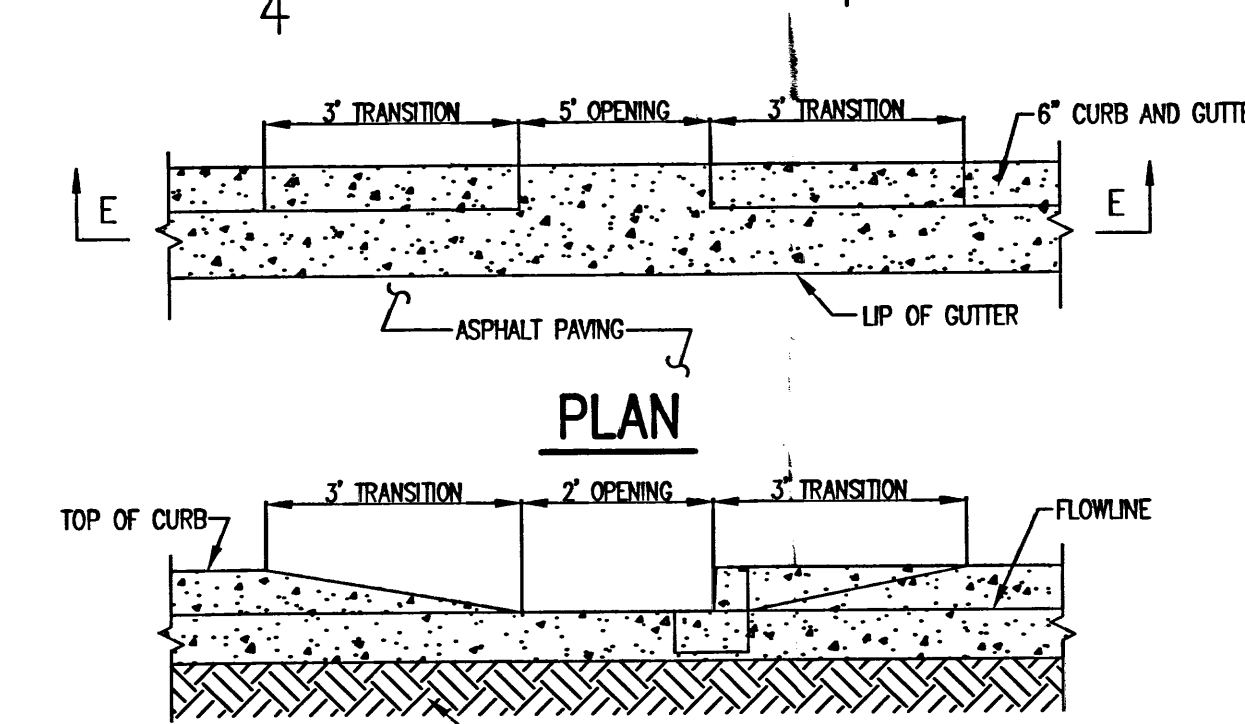
GENERAL NOTES:

1. BOTTOM SLAB OF CULVERT SHALL BE POURED MONOLITHICALLY WITH NEW GUTTER.
2. THE INVERT SHALL BE TROWELED TO PRODUCE A HARD POLISHED SURFACE OF MAX. DENSITY AND SMOOTHNESS. INVERT SHALL BE V-SHAPED TO WITHIN 3' OF OUTLET, THEN WARPED TO PARALLEL FLOWLINE AT OUTLET, UNLESS OTHERWISE SHOWN.
3. ALL EXPOSED CONC. SURFACE SHALL MATCH GRADE, COLOR, FINISH AND SCORING OF ADJACENT CURB AND SIDEWALK.
4. SIDEWALK REPLACED DURING CONSTRUCTION SHALL BE POURED MONOLITHICALLY WITH CULVERT WALLS.
5. IF ROD ANCHORS ARE USED, DRILL & TAP FOR F.H. MACHINE SCREWS. ATTACH ANCHORS TO PLATE AND SECURE PLATE IN PLACE PRIOR TO POURING OF WALLS.
6. SHALL BE SUCH THAT THE WEIGHT WILL NOT EXCEED 300 LBS. AND SHALL BE STRESS RELIEVED AFTER FABRICATION. CLEAN SURFACE OF PLATE AND FRAMING MEMBERS AND PAINT W/ ONE SHOP COAT RED OXIDE AND TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).

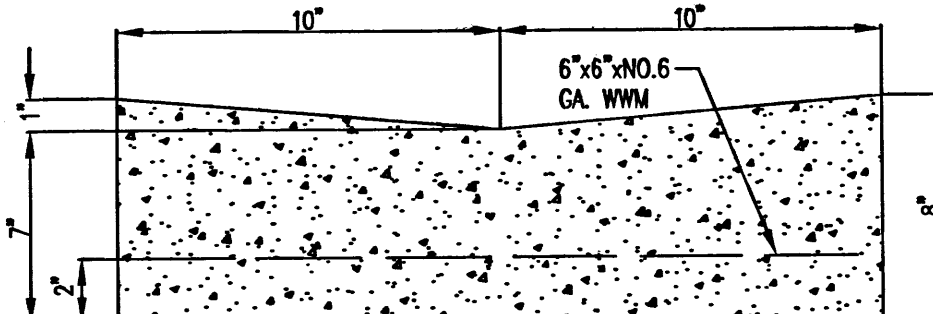
CONSTRUCTION NOTES:

- A. MATCH NEAREST CONTROL JOINT, INSTALL 1/2" EXPANSION JOINT.
- B. EDGE OF SIDEWALK OR SETBACK (VARIABLE).
- C. 3" RADIUS (TYPICAL).
- D. 3/8" CHECKERED STEEL PLATE (PAINT PER FOR SECURING PLATE USE 1/2" X 3/8" S.S. ROD ANCHOR, RED HEAD MULTI-SET II SPN-38 ANCHOR OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS AT MAX. 24" O.C. A MINIMUM OF 2 PER SIDE AND ONE WITHIN 6" OF EACH END.
- E. CONSTRUCTION JOINT IS OPTIONAL. IF USED, SPACE DOWELS AT 18" O.C. MAX., 1 1/2" MINIMUM FROM FACE OF CONCRETE.
- F. 3/8" - 16 X 1 1/4" COUNTERSUNK, F.H., STAINLESS STEEL MACHINE SCREW.
- G. SLOPE VARIES.

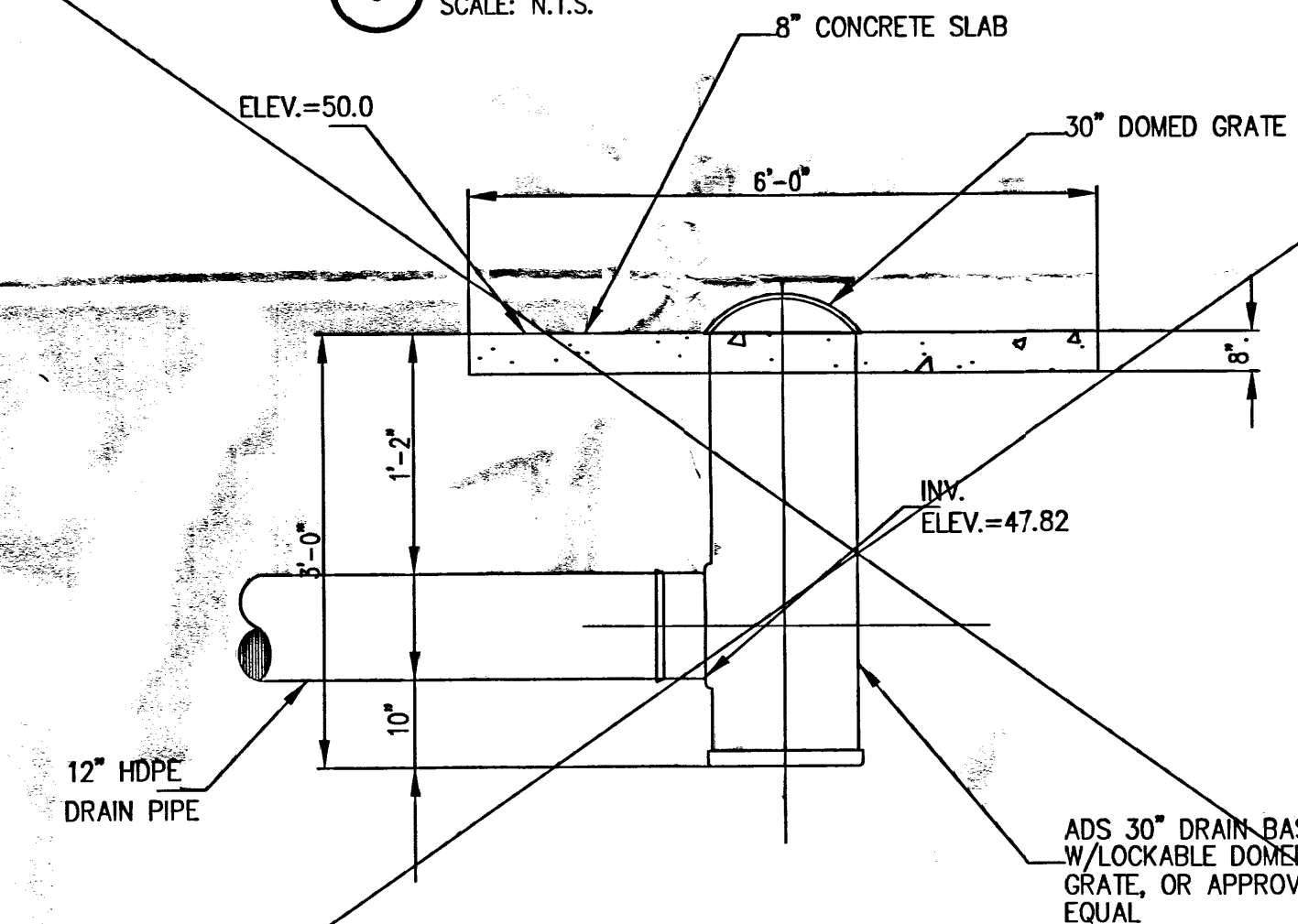
3 2' CURB OPENING DETAIL SCALE: N.T.S.



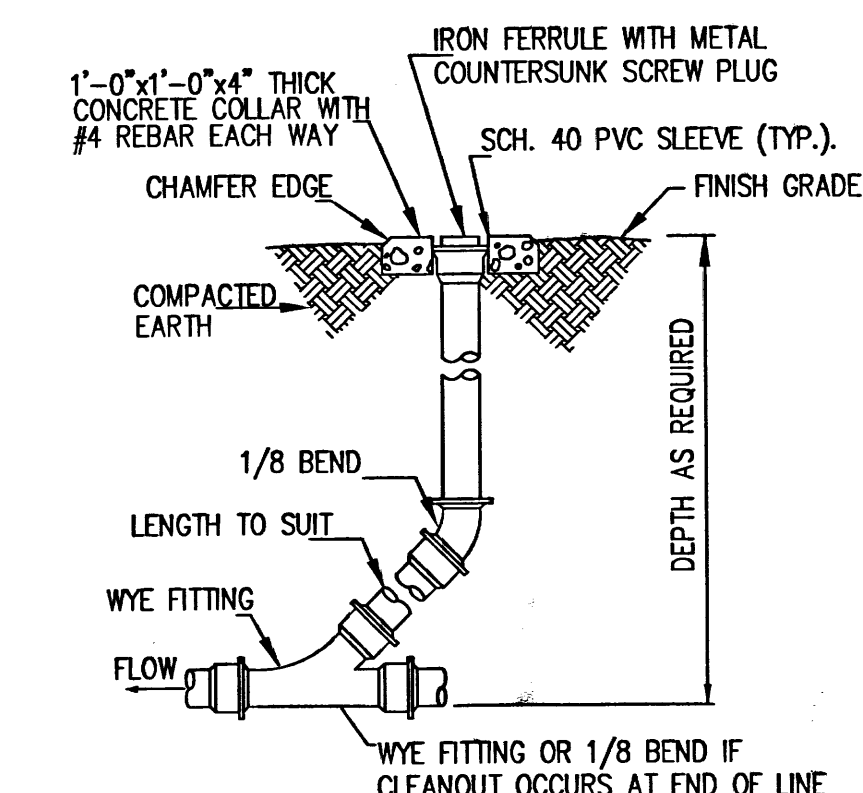
SECTION E-E



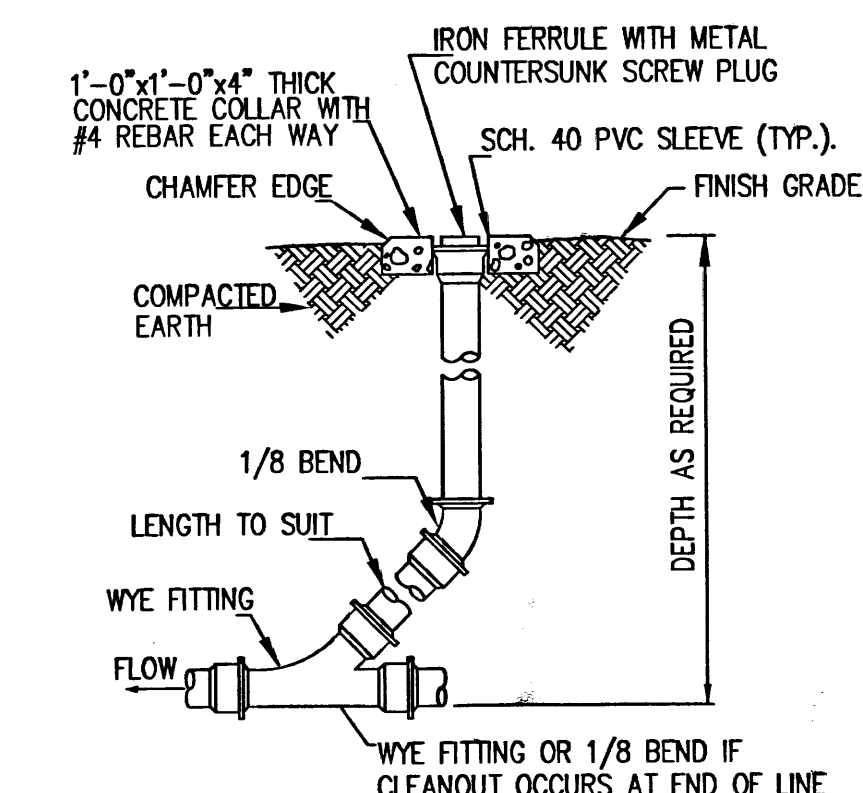
6 CONCRETE VALLEY GUTTER DETAIL SCALE: N.T.S.



8 30" DRAIN BASIN DETAIL SCALE: N.T.S. NOT USED



9 SEWER CLEANOUT DETAIL SCALE: N.T.S.



- GENERAL NOTES:
1. THE VALLEY GUTTER TO BE REINFORCED WITH 6x6x0.6 GA. WIRE MESH.
 2. INVERT OF VALLEY GUTTER TO EXTEND FROM FLOWLINE OF UPSTREAM CURB TO FLOWLINE OF DOWNSTREAM CURB.
 3. FOR NEW CONSTRUCTION, VALLEY GUTTER SHALL BE CONSTRUCTED PRIOR TO ADJACENT PAVEMENT. ASPHALT CONCRETE SHALL BE INSTALLED MONOLITHICALLY TO MEET NEW VALLEY GUTTER.
 4. PRIOR TO CONSTRUCTION OF NEW VALLEY GUTTER ON EXISTING PARKING LOT, PAVEMENT SHALL BE REMOVED AS SHOWN ON PLANS.

ASCG
INCORPORATED
ENGINEERS - ARCHITECTS - SURVEYORS - PLANNERS
1001 ALBUQUERQUE BLVD. N.E. SUITE 400
ALBUQUERQUE, NEW MEXICO 87110-5572
PHONE 505.247.0294 • FAX 505.242.4848

RENEE R. CARR
REGISTERED PROFESSIONAL ENGINEER
1995
LICENSED

CONSULTANTS:

MARY ANN BINFORD ELEMENTARY SCHOOL
KINDERGARTEN AND CLASSROOM ADDITION
OWNER:
ALBUQUERQUE PUBLIC SCHOOLS
6400 UPTOWN BLVD. NE
ALBUQUERQUE NM 87110

MARK	DATE	DESCRIPTION

PROJECT NO.: 020824
DATE: 04-29-07
DRAWN BY: PEG
CHK'D BY: LSJ

SHEET TITLE
CIVIL
DETAILS

C-501
SHEET OF

CHECKED BY:

DRAWN BY:

FILE NAME: \\Albuquerque Public Schools\Mary Ann Binford Elementary\Design\Drawings\Civil\C-501.DWG