

CITY OF ALBUQUERQUE



July 13, 2007

Wyatt E. Popp, P.E.
Olsson Associates
143 Union Blvd, Suite 700
Lakewood, CO 80228

Re: McMahon Marketplace Grading and Drainage Plan
Engineer's Stamp dated 6-18-07 (A11/D11)

Dear Mr. Popp,

Based upon the information provided in your submittal received 7-12-07, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. You are required to send a copy of your SWPPP on a CD to the following address:

P.O. Box 1293

Albuquerque

New Mexico 87103

Department of Municipal Development
Storm Drainage Division
P.O. Box 1293, One Civic Plaza, Rm. 301
Albuquerque, NM 87103

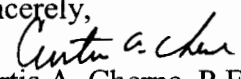
If you have any question concerning the SWPPP, please contact Kathy Verhage 768-3654.

www.cabq.gov

Also, prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3695.

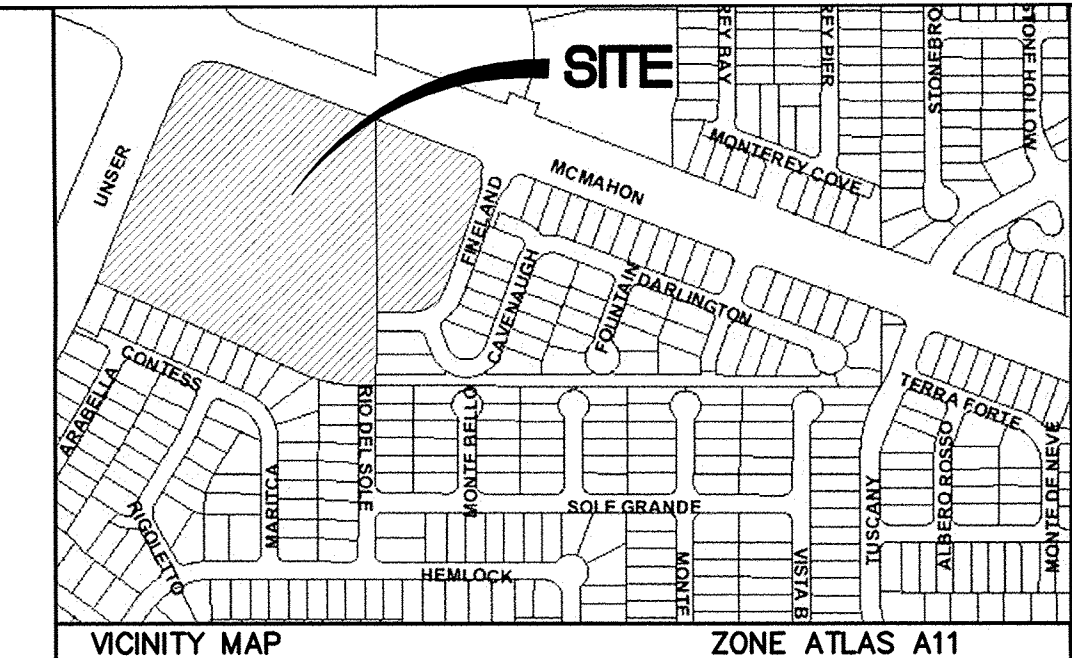
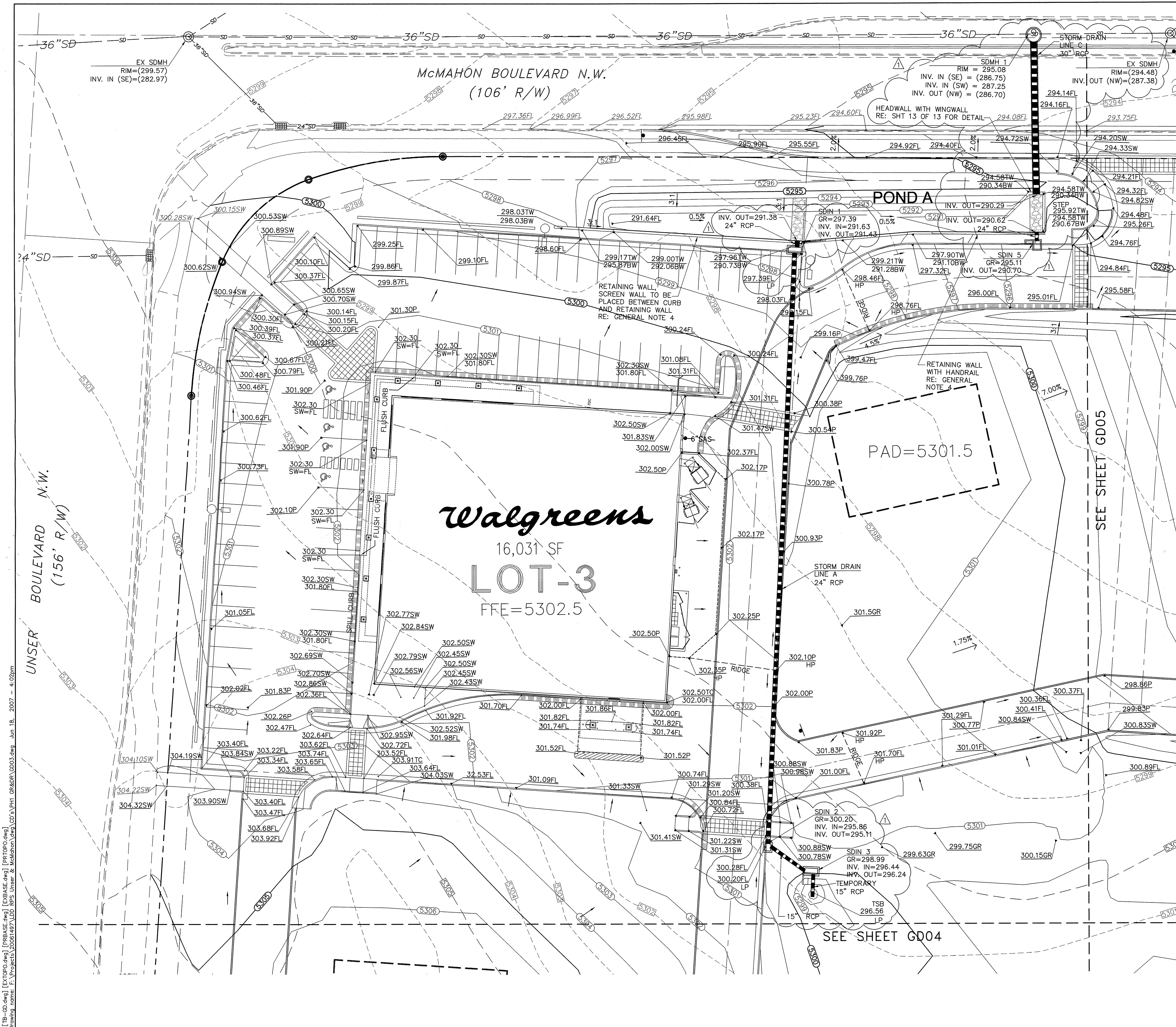
Sincerely,


Curtis A. Cherne, P.E.

Engineering Associate, Planning Dept.
Development and Building Services

C: file
Kathy Verhage, DMD

Albuquerque - McMahon 11/13/07 17:00 2007



- LEGEND**
- 70.00FL PROPOSED CRITICAL SPOT ELEVATIONS
FL=FLOWLINE
P=PAVEMENT
SW=SIDEWALK
RIM=RIM ELEVATION
GR=FINISHED GROUND
(ME)=MATCH EXISTING
TW=FINISHED GRADE AT TOP OF RETAINING WALL
BW=FINISHED GRADE AT BOTTOM OF RETAINING WALL
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(ME)=MATCH EXISTING
- 70.00FL EXISTING SPOT ELEVATIONS
FL=FLOWLINE
P=PAVEMENT
SW=SIDEWALK
RIM=RIM ELEVATION
GR=FINISHED GROUND
- TSB=TEMPORARY SEDIMENTATION BASIN
WITH WATER QUALITY RISER
LP=LOW POINT
HP=HIGH POINT
- EXISTING CONTOUR LABEL
PROPOSED CONTOUR LABEL
PROPOSED STORM PIPE
PROPOSED INLET
CATCH CURB AND GUTTER
SPILL CURB AND GUTTER
TEMPORARY ROLLED ASPHALT CURB
GENERAL PAVING FLOW DIRECTION
GENERAL OVERLOT GRADING FLOW DIRECTION

- GENERAL NOTES**
- ALL SPOT ELEVATIONS HAVE A BASE ELEVATION OF 5000 FEET.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING THE APPROPRIATE AGENCY FOR UTILITY LOCATIONS.
 - CONTRACTOR TO TAKE SPECIAL CARE TO PROTECT UTILITIES WHILE PERFORMING GRADING ACTIVITIES.
 - CONTRACTOR TO INSTALL MODULAR BLOCK RETAINING WALL. RETAINING WALL TO BE DESIGNED BY KEYSTONE OR EQUAL. SHOP DRAWINGS (SIGNED AND SEALED BY A NEW MEXICO PROFESSIONAL ENGINEER) ARE TO BE SUBMITTED TO THE OWNER PRIOR TO CONSTRUCTION OF WALL. CONTRACTOR SHALL COORDINATE WITH OWNER FOR MATERIAL AND COLOR.

MOLSSON ASSOCIATES
143 Union Boulevard, Suite 700
Lakewood, CO 80225-1025
TEL 720.962.6072
FAX 720.962.6195
www.molssonconsulting.com

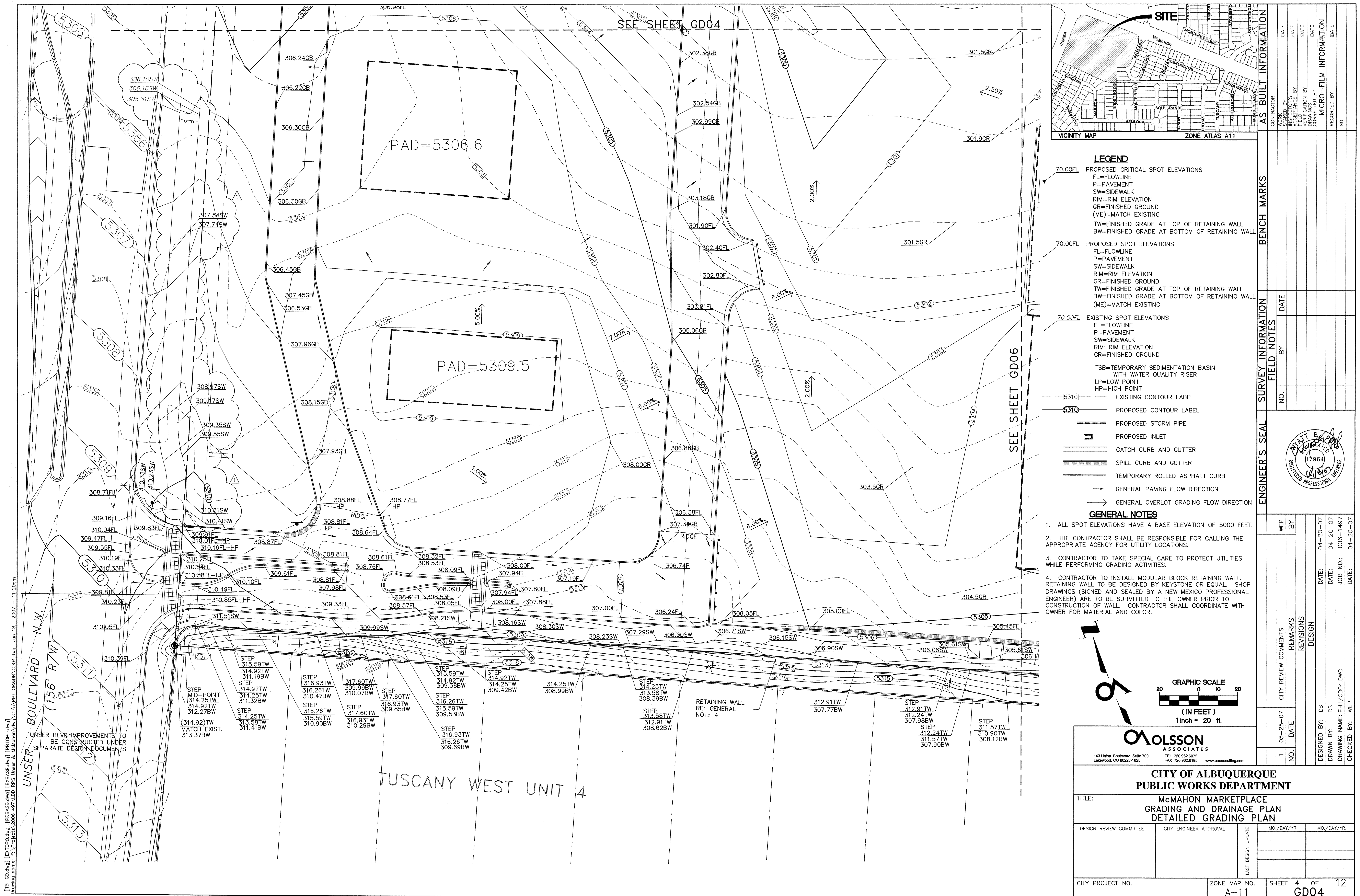
**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

TITLE: McMahon Marketplace
Grading and Drainage Plan
Detailed Drainage Plan

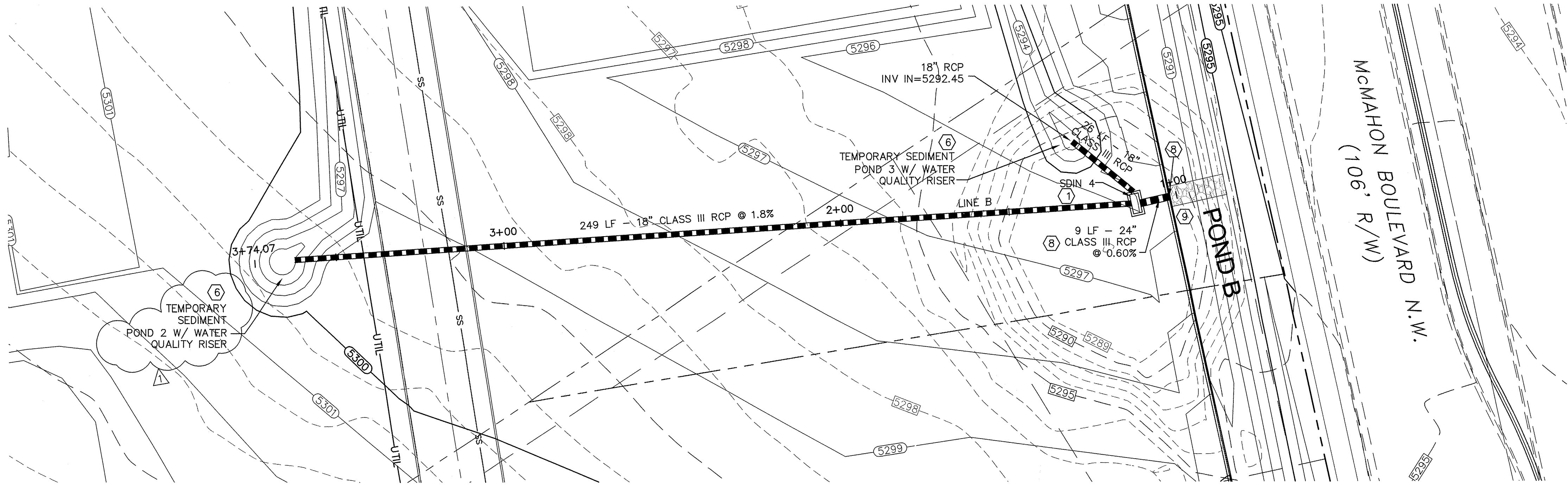
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. ZONE MAP NO. A-11 SHEET 3 OF 12
GD03

[Tb-cd.dwg] [EXTOP.dwg] [PRASE.dwg] [Ebase.dwg] [PRTOPO.dwg] [PROJECTS] [20051497] [UD RPS Unser & McMahon] [V05.03.dwg] [Jun 18, 2007 - 4:02pm]

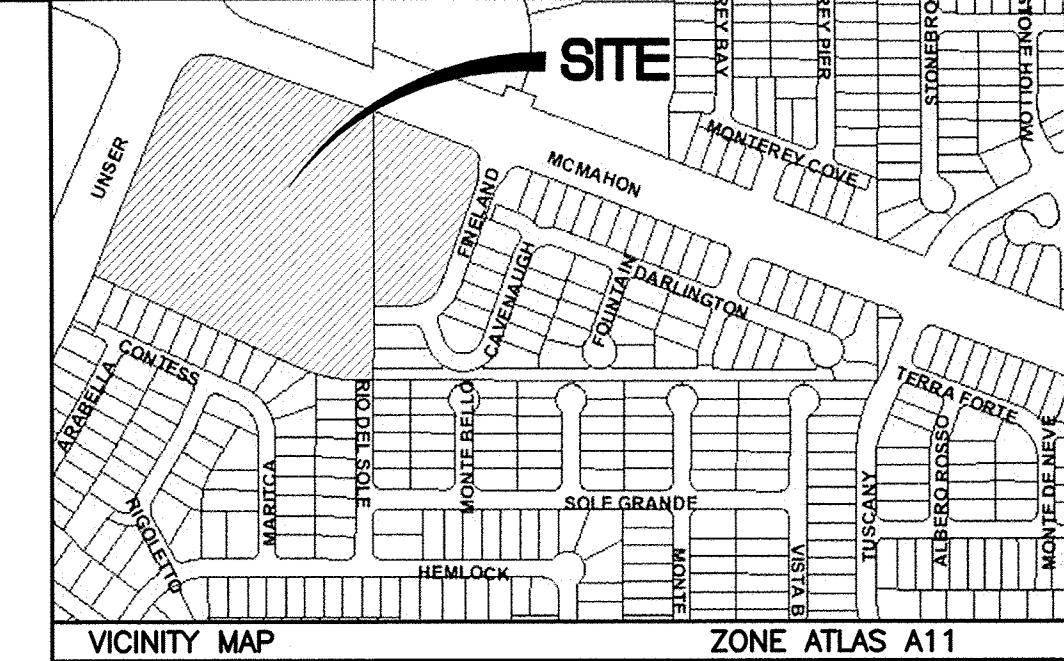
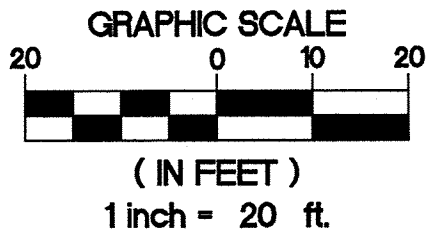
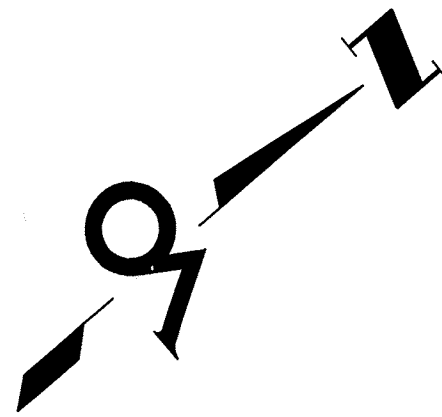


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Drawing name: 2. Projects 02061497 UDD RPS Linear & McMahon Way CD & VPI GR&DR GD7-9.dwg Jan 18, 2007 - 11:24am



LINE B

ID	NORTHING	EASTING
SDIN 1	1533427.32	366629.51
SDIN 2	1533186.63	366525.67
SDIN 3	1533168.53	366540.64
SDIN 4	1533321.06	366917.94
SDIN 5	1533392.91	366731.65
MH 1	1533479.59	366762.57

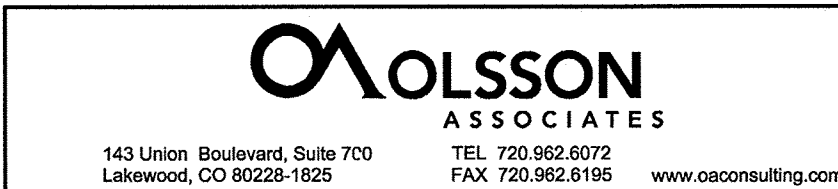
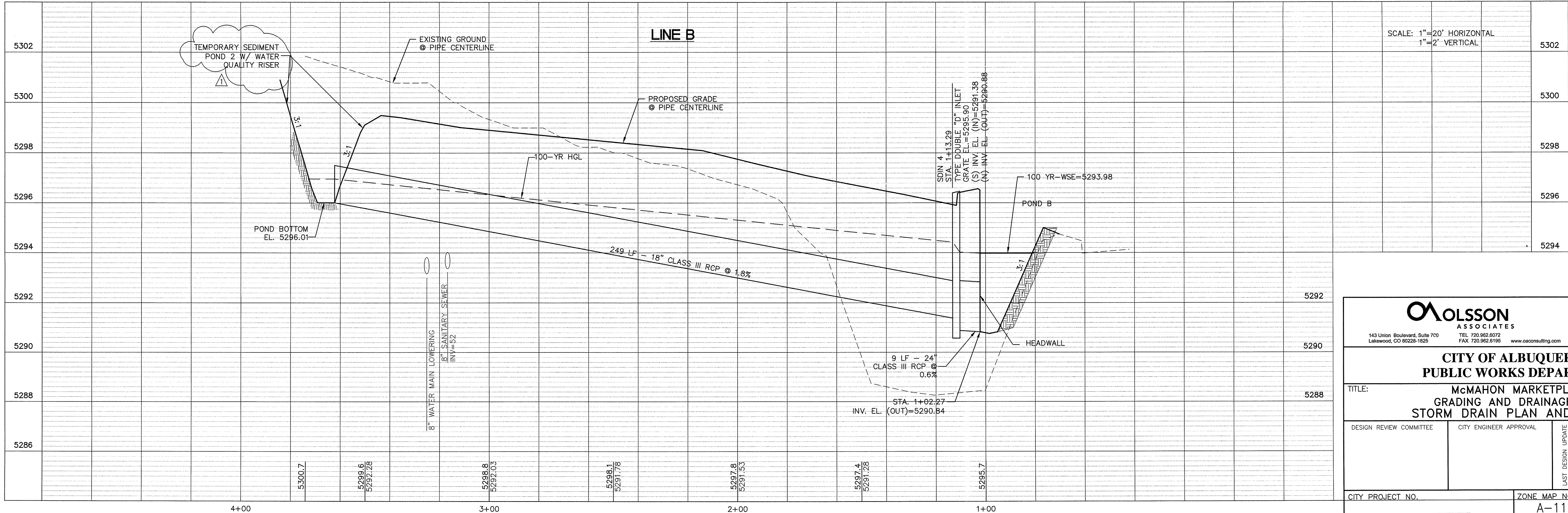


KEY NOTES

- CONTRACTOR TO INSTALL TYPE DOUBLE "D" INLET (COA STANDARD DRAWING #2206)
- CONTRACTOR TO INSTALL TYPE "D" INLET (COA STANDARD DRAWING #2206)
- CONTRACTOR TO INSTALL TYPE "A" INLET (COA STANDARD DRAWING #2201 & #2202)
- CONTRACTOR TO INSTALL TYPE DOUBLE "C" INLET (COA STANDARD DRAWING #2205)
- CONTRACTOR TO INSTALL STANDARD MANHOLE (COA STANDARD DRAWING #2102)
- INSTALL TEMPORARY WATER QUALITY RISER AND SEDIMENT BASIN (SEE SHEET GD12 FOR DETAILS)
- OUTLET STRUCTURE (SEE SHEET GD12)
- CONTRACTOR TO INSTALL PIPE INLET HEADWALL AT RETAINING WALL (SEE SHEET GD12)
- CONTRACTOR TO INSTALL WIRE ENCLOSED RIP RAP D50=12". DEPTH=18" (SEE NEW MEXICO APWA DETAIL 2270)

CONSTRUCTION NOTES

- COORDINATES FOR INLETS, MANHOLES AND OTHER DRAINAGE APPURTENANCES ARE SHOWN AT :
INLET: CENTERLINE INLET AT FLOWLINE
MH: CENTER OF MANHOLE
HEADWALL: ENDS OF HEADWALL.
- LENGTHS ARE MEASURED FROM INSIDE WALL OF INLET AND CENTER OF MANHOLE.



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

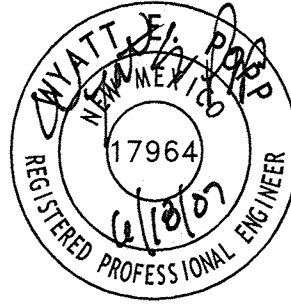
TITLE: McMAHON MARKETPLACE GRADING AND DRAINAGE PLAN STORM DRAIN PLAN AND PROFILE			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.
CITY PROJECT NO.	ZONE MAP NO. A-11	SHEET 8	OF 12 GD08

AS BUILT INFORMATION			
CONTRACTOR	WORKED BY	DATE	
INSPECTOR'S	FIELD BY	DATE	
VERIFICATION BY	DATE		
CORRECTED BY	DATE		
MICRO-FILM INFORMATION			
RECORDED BY	DATE		
NO.			

BENCH MARKS

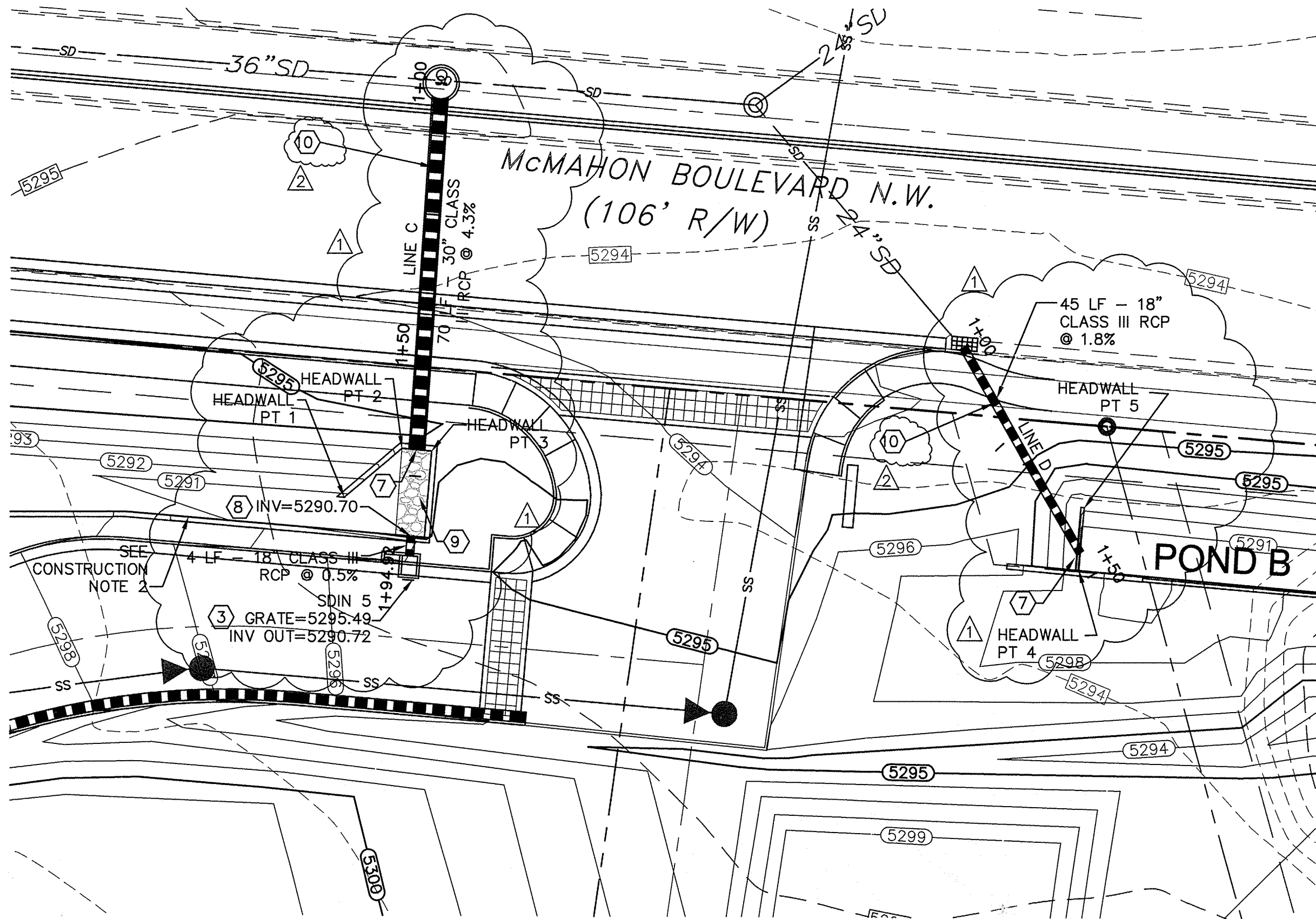
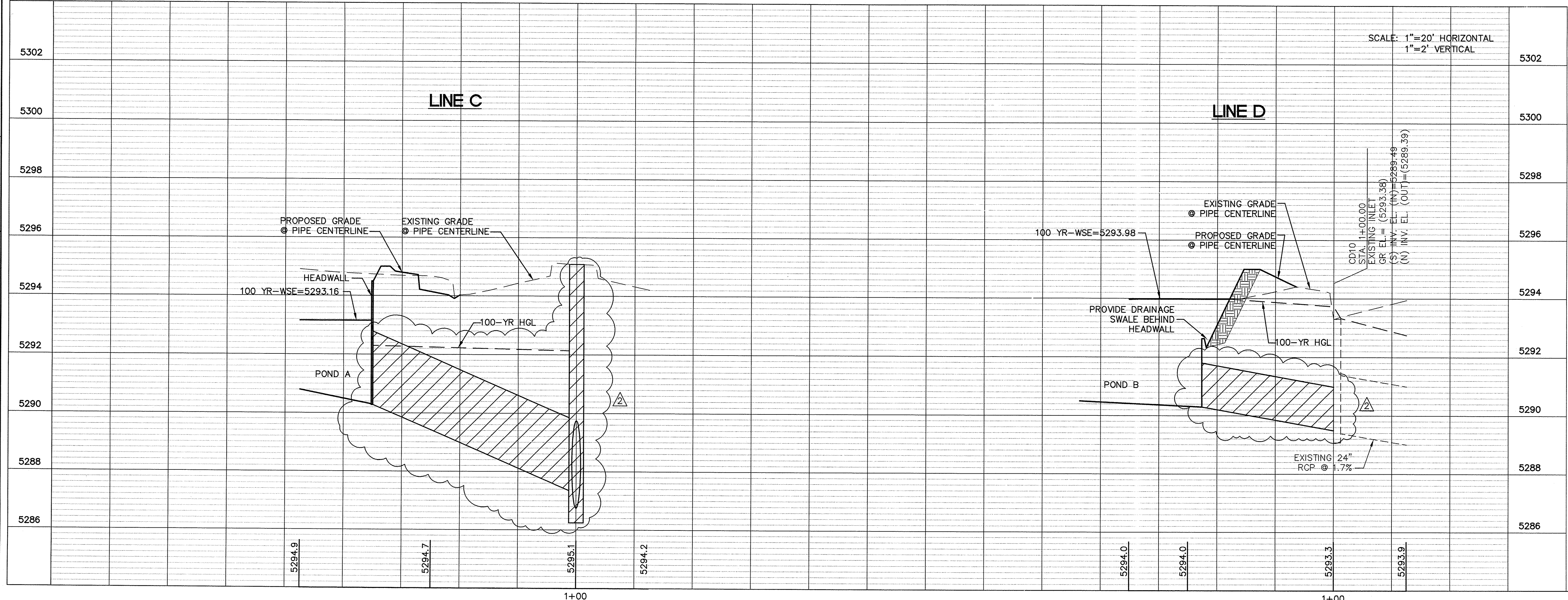
SURVEY INFORMATION

ENGINEER'S SEAL



FIELD NOTES		REVISIONS	
NO.	DATE	NO.	DATE
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		2	06-14-07
		3	06-14-07
		4	06-14-07
		5	06-14-07
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		100	06-14-07

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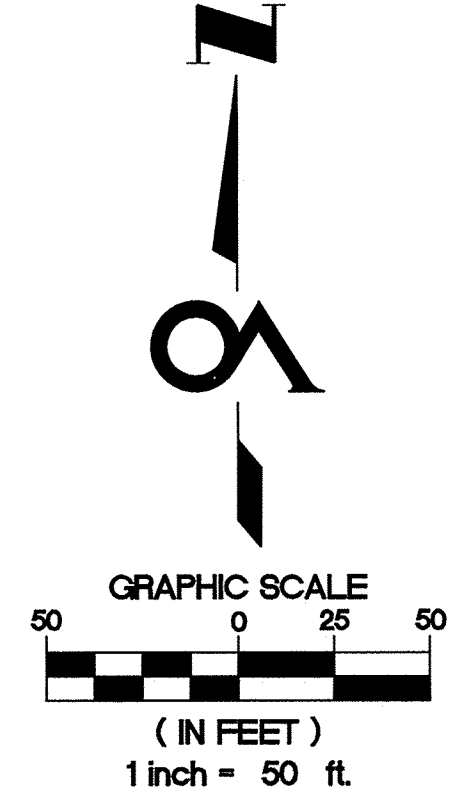
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Drawing name: F:\Projects\2006\1497\1497_RPS_Unser & McMahon.dwg



LEGEND

- 5310 --- EXISTING CONTOUR LABEL
- 5310 --- PROPOSED CONTOUR LABEL
- PROPOSED STORM PIPE
- PROPOSED INLET
- B4 BASIN DESIGNATION
- BASIN DELINEATION
- ➔ DRAINAGE DIRECTION

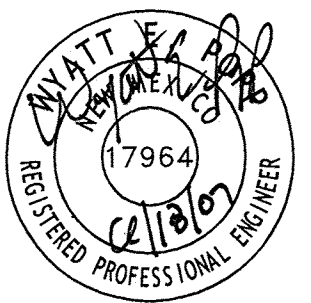
NOTES
1. ALL SPOT ELEVATIONS HAVE A BASE ELEVATION OF 5000 FEET.



MOLSSON ASSOCIATES
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TEL 720.962.6072
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT			
TITLE: McMahon Marketplace Grading and Drainage Plan Overall Drainage Plan			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	
		MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO.		ZONE MAP NO. A-11	SHEET 10 OF 12 GD010

ENGINEER'S SEAL



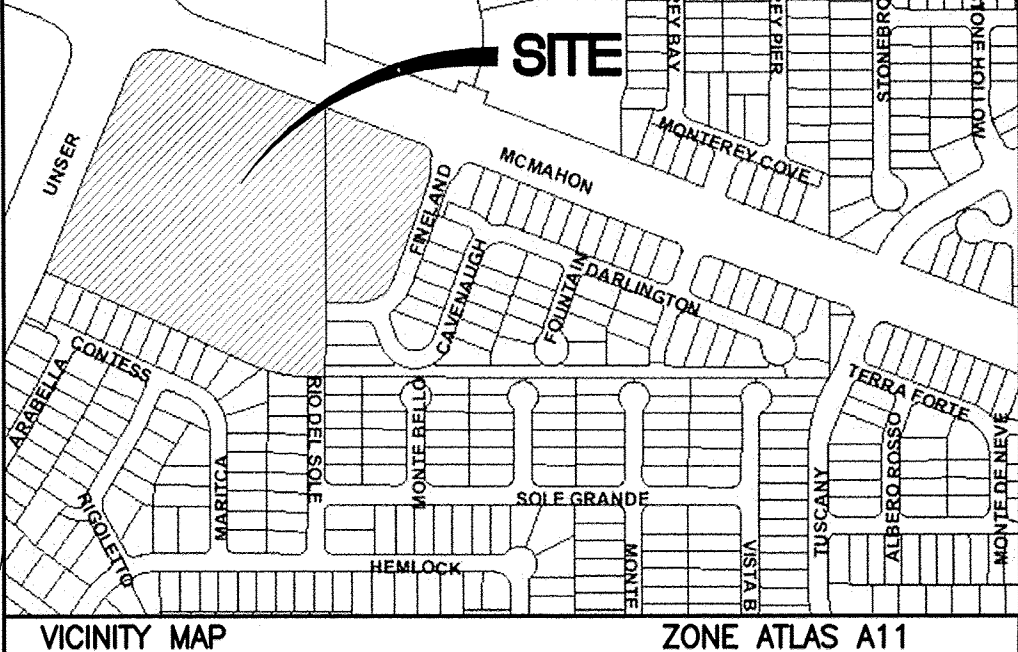
SURVEY INFORMATION

NO.	BY	DATE

BENCH MARKS

AS BUILT INFORMATION

CONTRACTOR		
WORK	DATE	
STAKED BY	DATE	
INSPECTOR'S	DATE	
ACCEPTANCE BY	DATE	
FIELD	DATE	
VERIFICATION BY	DATE	
DRAWINGS	DATE	
CORRECTED BY	DATE	
MICRO-FILM INFORMATION		
RECORDED BY	DATE	
NO.		



[T:\B-GD.dwg] Drawing name: F:\Projects\2006\1497\UD RPS User: & McMahon\dwg\GD11.dwg Jun 18, 2007 - 11:27am

Basin Breakdown by Land Treatment - Basin A1					
square feet	A	B	C	D	Total
acres	0.00	25,095.97	0.00	66,266	91,361
		0.58		1.52	2.097
Excess Precipitation-6 Hour Storm, Zone 1 (Inches)					
Zone 1	A	B	C	D	
2 Year	0.00	0.01	0.12	0.72	
10 Year	0.08	0.22	0.44	1.24	
100 Year	0.44	0.67	0.99	1.97	
Weighted Excess Precipitation-6 Hour Storm, Zone 1					
	E ₂	0.525	inches		
	E ₁₀	0.990	inches		
	E ₁₀₀	1.613	inches		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	0.09	ac-ft		
	V ₁₀	0.17	ac-ft		
	V ₁₀₀	0.28	ac-ft		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	3,996.86	ft ³		
	V ₁₀	7,307.56	ft ³		
	V ₁₀₀	12,279.83	ft ³		
Peak Discharge-6 Hour Storm (cfs/ac)					
Zone 1	A	B	C	D	
2 Year	0.00	0.03	0.47	1.69	
10 Year	0.24	0.76	1.49	2.89	
100 Year	1.29	2.03	2.87	4.37	
Peak Discharge-6 Hour Storm					
	Q _{P2}	2.59	cfs		
	Q _{P10}	4.83	cfs		
	Q _{P100}	7.82	cfs		

Basin Breakdown by Land Treatment - Basin B2					
square feet	A	B	C	D	Total
acres	0.00	602.29	0.00	0.43	19,541
		0.01		0.43	0.449
Excess Precipitation-6 Hour Storm, Zone 1 (Inches)					
Zone 1	A	B	C	D	
2 Year	0.00	0.01	0.12	0.72	
10 Year	0.08	0.22	0.44	1.24	
100 Year	0.44	0.67	0.99	1.97	
Weighted Excess Precipitation-6 Hour Storm, Zone 1					
	E ₂	0.698	inches		
	E ₁₀	1.209	inches		
	E ₁₀₀	1.930	inches		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	0.03	ac-ft		
	V ₁₀	0.05	ac-ft		
	V ₁₀₀	0.07	ac-ft		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	1,136.86	ft ³		
	V ₁₀	1,968.10	ft ³		
	V ₁₀₀	3,142.82	ft ³		
Peak Discharge-6 Hour Storm (cfs/ac)					
Zone 1	A	B	C	D	
2 Year	0.00	0.03	0.47	1.69	
10 Year	0.24	0.76	1.49	2.89	
100 Year	1.29	2.03	2.87	4.37	
Peak Discharge-6 Hour Storm					
	Q _{P2}	0.74	cfs		
	Q _{P10}	1.27	cfs		
	Q _{P100}	1.93	cfs		

Basin Breakdown by Land Treatment - Basin A2					
square feet	A	B	C	D	Total
acres	0.00	4,104.56	0.00	23,079	27,183
		0.09		0.53	0.624
Excess Precipitation-6 Hour Storm, Zone 1 (Inches)					
Zone 1	A	B	C	D	
2 Year	0.00	0.01	0.12	0.72	
10 Year	0.08	0.22	0.44	1.24	
100 Year	0.44	0.67	0.99	1.97	
Weighted Excess Precipitation-6 Hour Storm, Zone 1					
	E ₂	0.613	inches		
	E ₁₀	1.086	inches		
	E ₁₀₀	1.774	inches		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	0.03	ac-ft		
	V ₁₀	0.06	ac-ft		
	V ₁₀₀	0.09	ac-ft		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	1,388.15	ft ³		
	V ₁₀	2,460.06	ft ³		
	V ₁₀₀	4,017.94	ft ³		
Peak Discharge-6 Hour Storm (cfs/ac)					
Zone 1	A	B	C	D	
2 Year	0.00	0.03	0.47	1.69	
10 Year	0.24	0.76	1.49	2.89	
100 Year	1.29	2.03	2.87	4.37	
Peak Discharge-6 Hour Storm					
	Q _{P2}	0.90	cfs		
	Q _{P10}	1.60	cfs		
	Q _{P100}	2.51	cfs		

Basin Breakdown by Land Treatment - Basin B3					
square feet	A	B	C	D	Total
acres	0.00	700.14	9,190	33,592	43,482
		0.02	0.21	0.77	0.998
Excess Precipitation-6 Hour Storm, Zone 1 (Inches)					
Zone 1	A	B	C	D	
2 Year	0.00	0.01	0.12	0.72	
10 Year	0.08	0.22	0.44	1.24	
100 Year	0.44	0.67	0.99	1.97	
Weighted Excess Precipitation-6 Hour Storm, Zone 1					
	E ₂	0.582	inches		
	E ₁₀	1.054	inches		
	E ₁₀₀	1.742	inches		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	0.05	ac-ft		
	V ₁₀	0.09	ac-ft		
	V ₁₀₀	0.14	ac-ft		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	2,108.02	ft ³		
	V ₁₀	3,821.01	ft ³		
	V ₁₀₀	6,312.00	ft ³		
Peak Discharge-6 Hour Storm (cfs/ac)					
Zone 1	A	B	C	D	
2 Year	0.00	0.03	0.47	1.69	
10 Year	0.24	0.76	1.49	2.89	
100 Year	1.29	2.03	2.87	4.37	
Peak Discharge-6 Hour Storm					
	Q _{P2}	1.40	cfs		
	Q _{P10}	2.56	cfs		
	Q _{P100}	4.01	cfs		

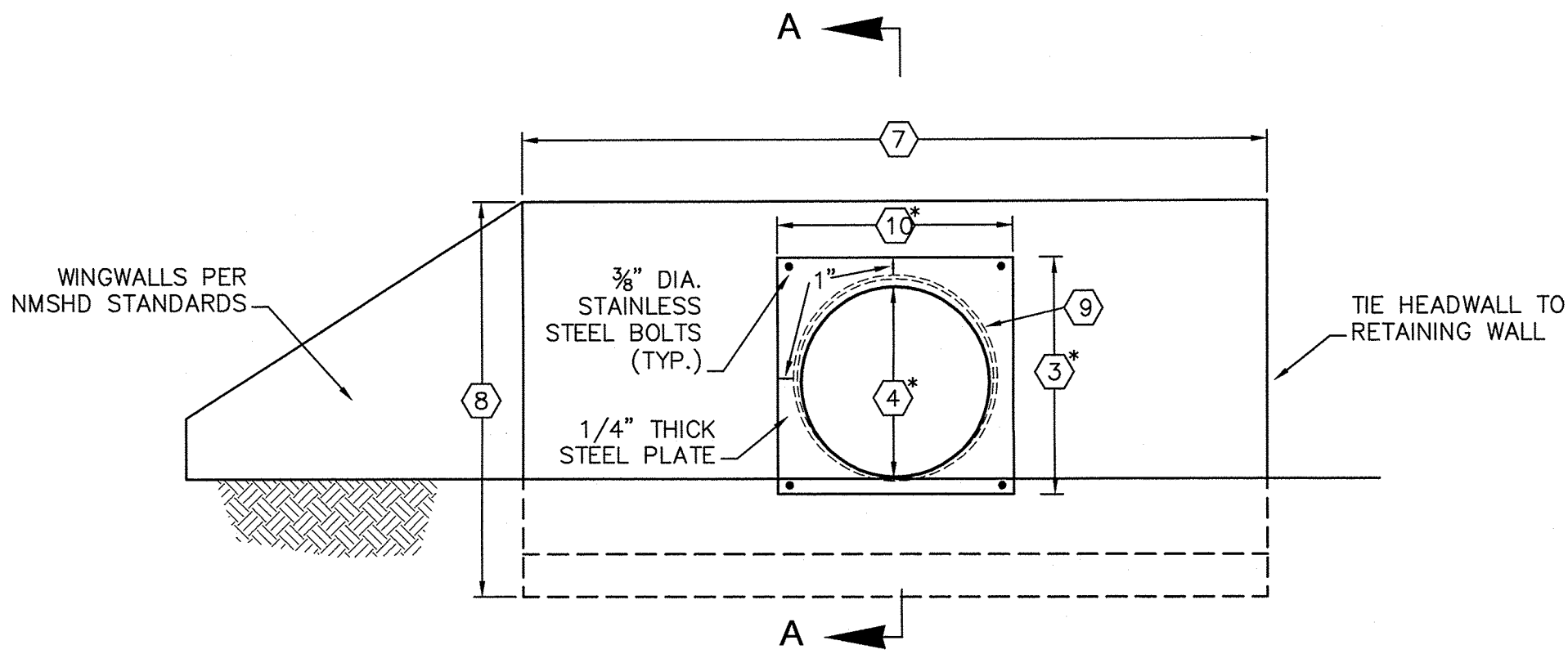
Basin Breakdown by Land Treatment - Basin A3					
square feet	A	B	C	D	Total
acres	0.00	8,025.75	0.00	69,857	77,883
		0.18		1.60	1.788
Excess Precipitation-6 Hour Storm, Zone 1 (Inches)					
Zone 1	A	B	C	D	
2 Year	0.00	0.01	0.12	0.72	
10 Year	0.08	0.22	0.44	1.24	
100 Year	0.44	0.67	0.99	1.97	
Weighted Excess Precipitation-6 Hour Storm, Zone 1					
	E ₂	0.647	inches		
	E ₁₀	1.135	inches		
	E ₁₀₀	1.836	inches		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	0.10	ac-ft		
	V ₁₀	0.17	ac-ft		
	V ₁₀₀	0.27	ac-ft		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	4,198.12	ft ³		
	V ₁₀	7,365.71	ft ³		
	V ₁₀₀	11,916.32	ft ³		
Peak Discharge-6 Hour Storm (cfs/ac)					
Zone 1	A	B	C	D	
2 Year	0.00	0.03	0.47	1.69	
10 Year	0.24	0.76	1.49	2.89	
100 Year	1.29	2.03	2.87	4.37	
Peak Discharge-6 Hour Storm					
	Q _{P2}	2.72	cfs		
	Q _{P10}	4.77	cfs		
	Q _{P100}	7.38	cfs		

Basin Breakdown by Land Treatment - Basin B4					
square feet	A	B	C	D	Total
acres	0.00	-	8,928	8,699	17,626
		0.00	0.20	0.20	0.405
Excess Precipitation-6 Hour Storm, Zone 1 (Inches)					
Zone 1	A	B	C	D	
2 Year	0.00	0.01	0.12	0.72	
10 Year	0.08	0.22	0.44	1.24	
100 Year	0.44	0.67	0.99	1.97	
Weighted Excess Precipitation-6 Hour Storm, Zone 1					
	E ₂	0.416	inches		
	E ₁₀	0.835	inches		
	E ₁₀₀	1.474	inches		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	0.01	ac-ft		
	V ₁₀	0.03	ac-ft		
	V ₁₀₀	0.05	ac-ft		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	611.22	ft ³		
	V ₁₀	1,226.24	ft ³		
	V ₁₀₀	2,164.61	ft ³		
Peak Discharge-6 Hour Storm (cfs/ac)					
Zone 1	A	B	C	D	
2 Year	0.00	0.03	0.47	1.69	
10 Year	0.24	0.76	1.49	2.89	
100 Year	1.29	2.03	2.87	4.37	
Peak Discharge-6 Hour Storm					
	Q _{P2}	0.43	cfs		
	Q _{P10}	0.88	cfs		
	Q _{P100}	1.46	cfs		

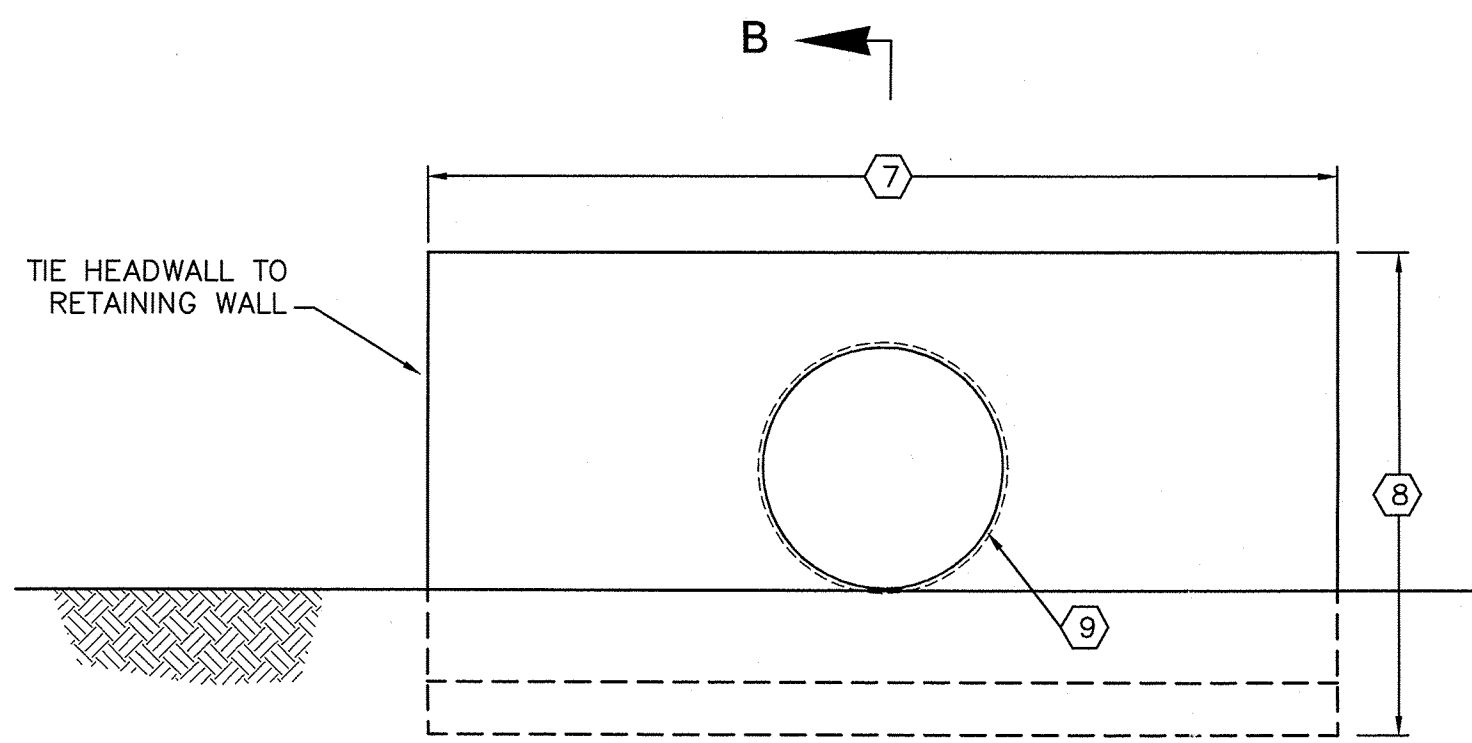
Basin Breakdown by Land Treatment - Basin A4					
square feet	A	B	C	D	Total
acres	0.00	12,147.76	19,793	93,830	125,771
		0.28	0.45	2.15	2.887
Excess Precipitation-6 Hour Storm, Zone 1 (Inches)					
Zone 1	A	B	C	D	
2 Year	0.00	0.01	0.12	0.72	
10 Year	0.08	0.22	0.44	1.24	
100 Year	0.44	0.67	0.99	1.97	
Weighted Excess Precipitation-6 Hour Storm, Zone 1					
	E ₂	0.557	inches		
	E ₁₀	1.016	inches		
	E ₁₀₀	1.690	inches		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	0.13	ac-ft		
	V ₁₀	0.24	ac-ft		
	V ₁₀₀	0.41	ac-ft		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	5,837.89	ft ³		
	V ₁₀	10,644.27	ft ³		
	V ₁₀₀	17,715.01	ft ³		
Peak Discharge-6 Hour Storm (cfs/ac)					
Zone 1	A	B	C	D	
2 Year	0.00	0.03	0.47	1.69	
10 Year	0.24	0.76	1.49	2.89	
100 Year	1.29	2.03	2.87	4.37	
Peak Discharge-6 Hour Storm					
	Q _{P2}	3.86	cfs		
	Q _{P10}	7.11	cfs		
	Q _{P100}	11.28	cfs		

Basin Breakdown by Land Treatment - Basin O1					
square feet	A	B	C	D	Total
acres	0.00	1,557.99	0.00	22,970	24,528
		0.04		0.53	0.563
Excess Precipitation-6 Hour Storm, Zone 1 (Inches)					
Zone 1	A	B	C	D	
2 Year	0.00	0.01	0.12	0.72	
10 Year	0.08	0.22	0.44	1.24	
100 Year	0.44	0.67	0.99	1.97	
Weighted Excess Precipitation-6 Hour Storm, Zone 1					
	E ₂	0.675	inches		
	E ₁₀	1.175	inches		
	E ₁₀₀	1.887	inches		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	0.03	ac-ft		
	V ₁₀	0.06	ac-ft		
	V ₁₀₀	0.09	ac-ft		
Runoff Volume-6 Hour Storm, Zone 1					
	V ₂	1,379.51	ft ³		
	V ₁₀	2,402.15	ft ³		
	V ₁₀₀	3,857.93	ft ³		
Peak Discharge-6 Hour Storm (cfs/ac)					
Zone 1	A	B	C	D	
2 Year	0.00	0.03	0.47	1.69	
10 Year	0.24	0.76	1.49	2.89	
100 Year	1.29	2.03	2.87	4.37	
Peak Discharge-6 Hour Storm					
	Q _{p2}	0.89	cfs		
	Q _{p10}	1.55	cfs		
	Q _{p100}	2.38	cfs		

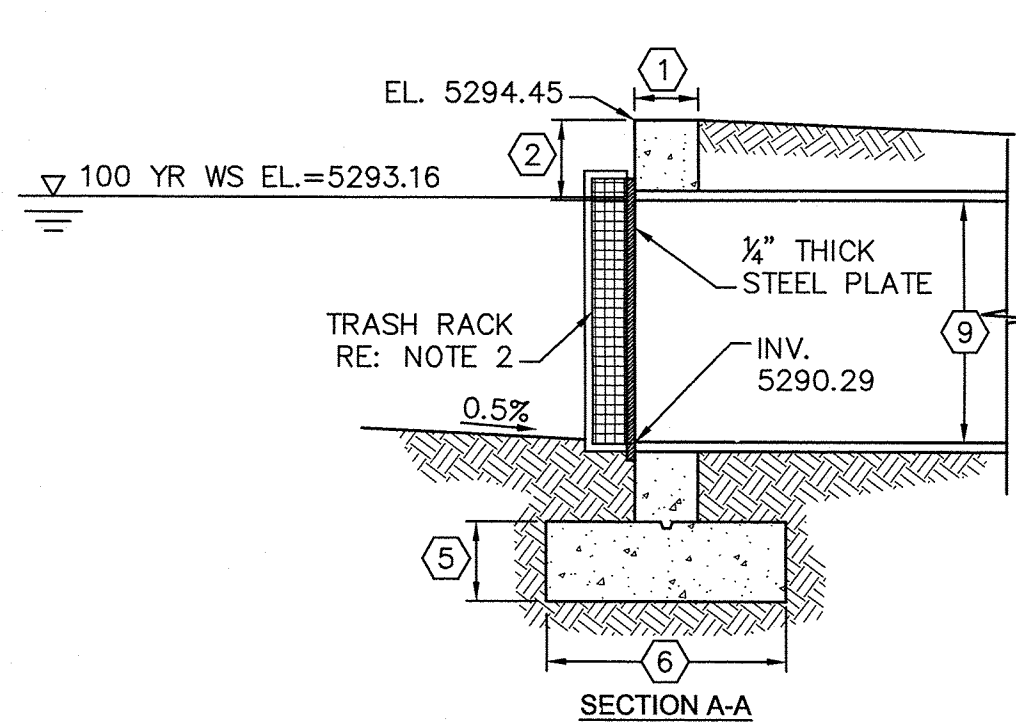
NOTES:
1. REFER TO NMSHD 511-03-1/1 FOR REBAR PLACEMENT AND 511-11B-1/6 THROUGH 3/6 FOR WINGWALL DETAILS.
2. TRASH RACK SHALL BE PLASTIC SOLUTIONS INC. MODEL #FRO60601 FOR POND "A", AND MODEL #FRO40401 FOR POND "B" (OR APPROVED EQUAL).



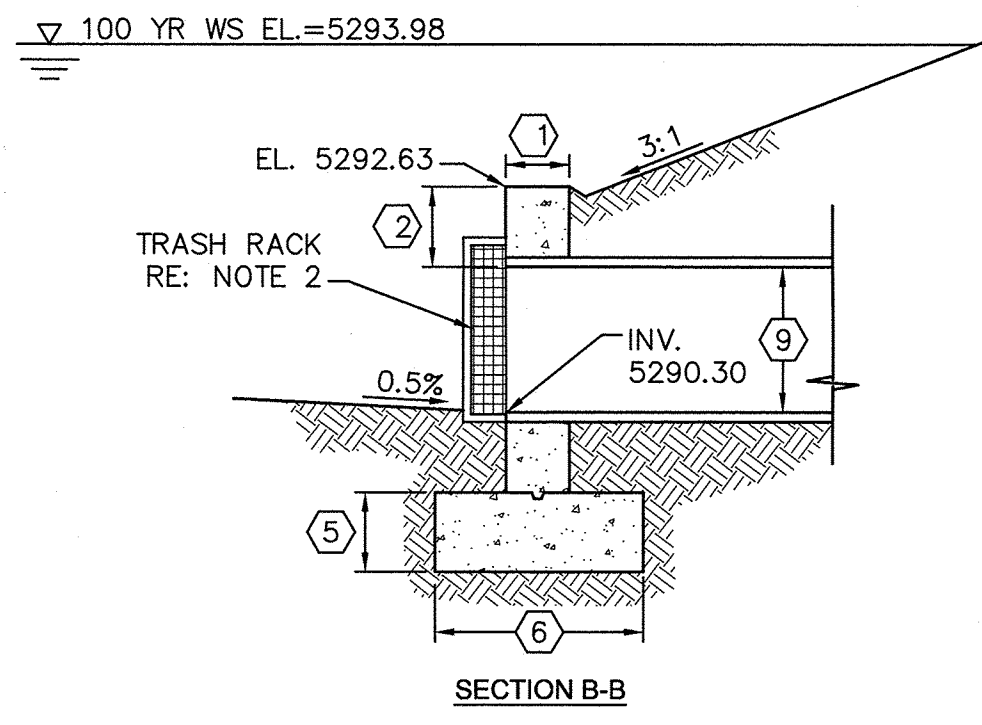
OUTLET STRUCTURE - POND A
NTS



OUTLET STRUCTURE - POND B
NTS



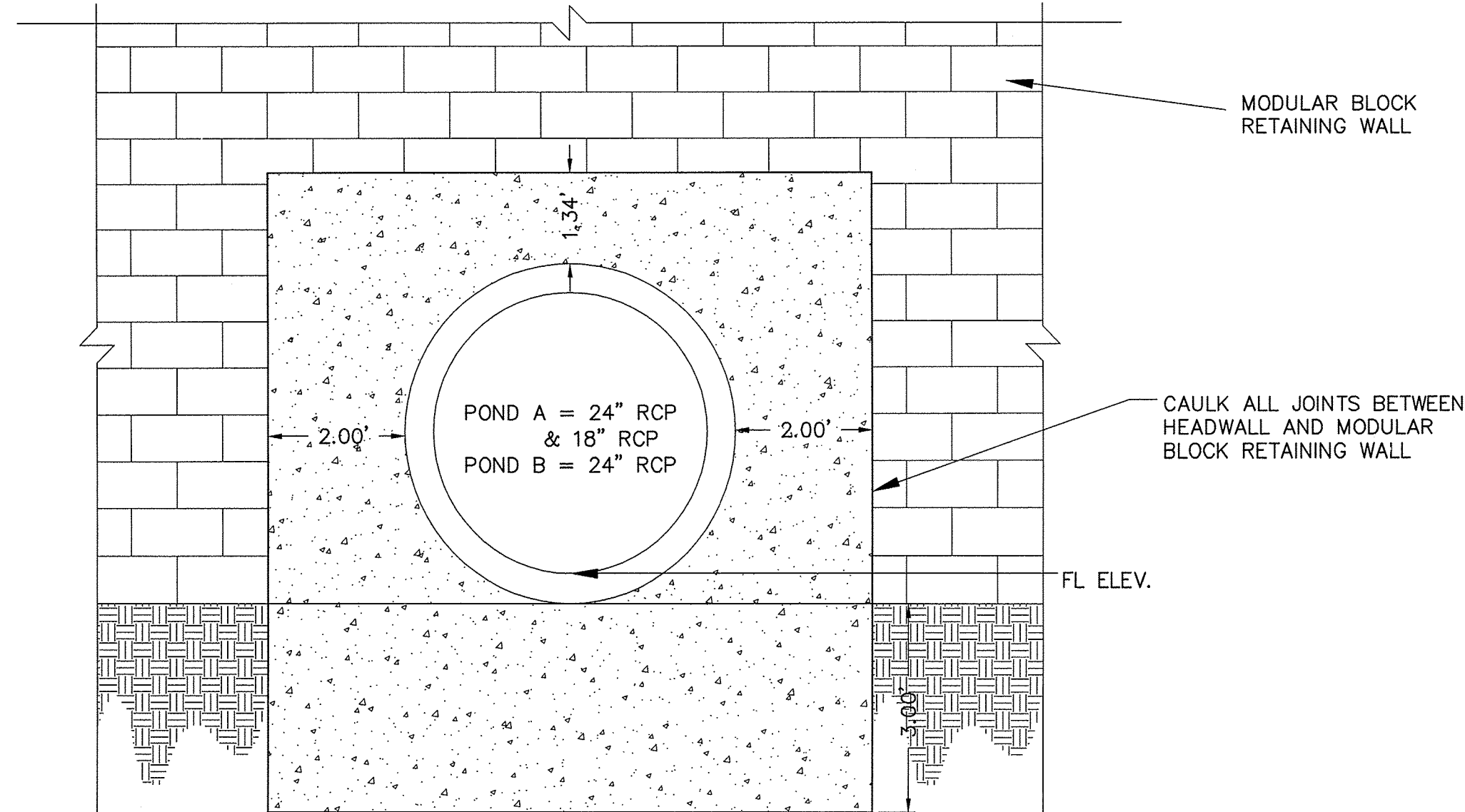
POND A



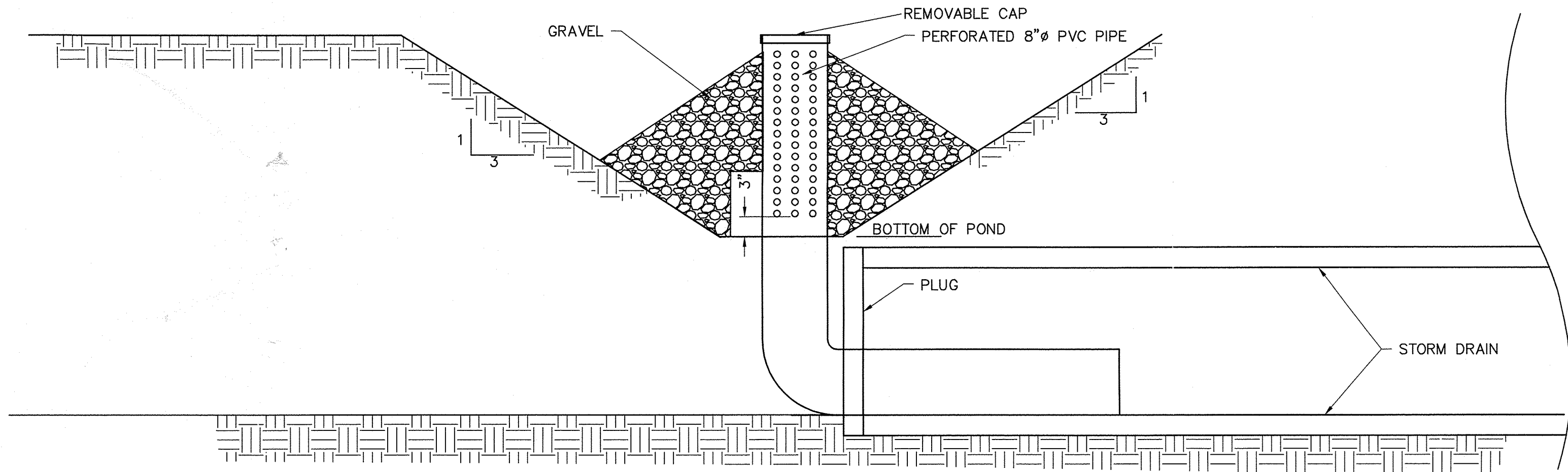
POND B

DIMENSION TABLE		
	POND A	POND B
①	0.67'	0.67'
②	1.66'	0.83'
③	3.25'	NA
④	2.42' (29")	NA
⑤	0.83'	0.83'
⑥	2.50'	2.17'
⑦	5.75'	12.00'
⑧	5.0'	4.0'
⑨	30" RCP	18" RCP
⑩	3.25'	NA

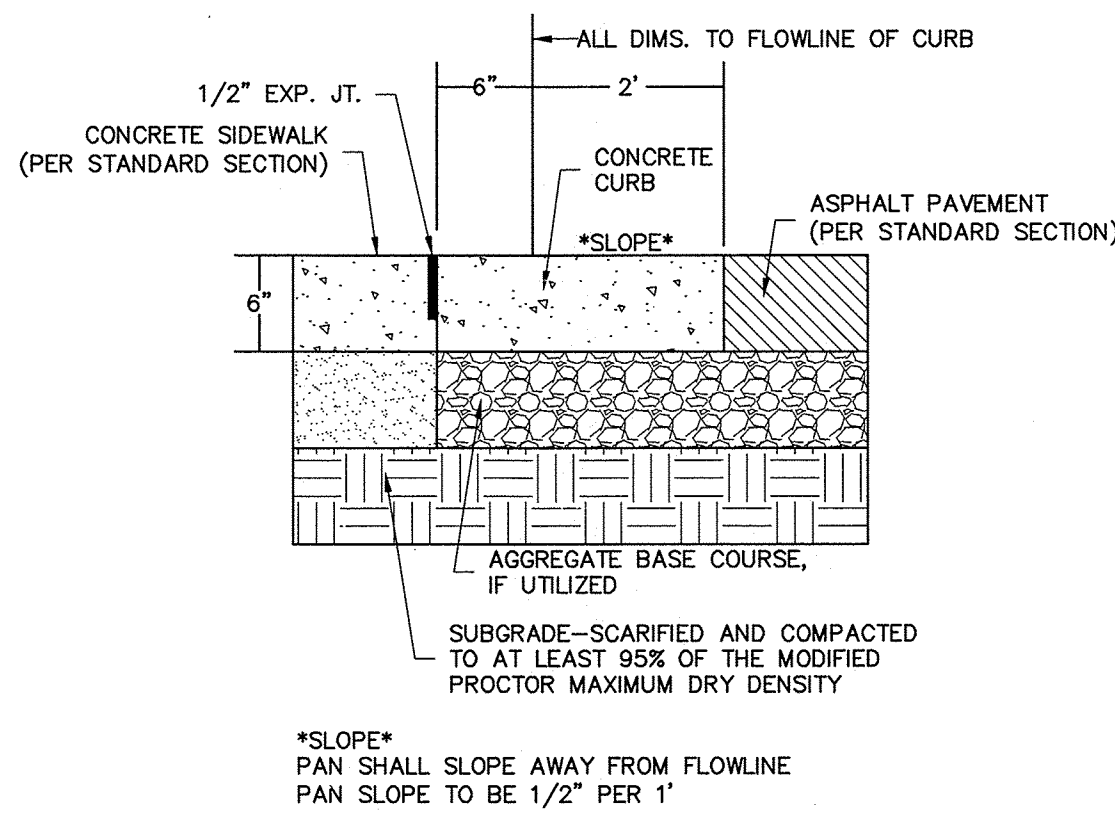
*NOTES ③ ④ ⑩ REFER TO STEEL PLATE



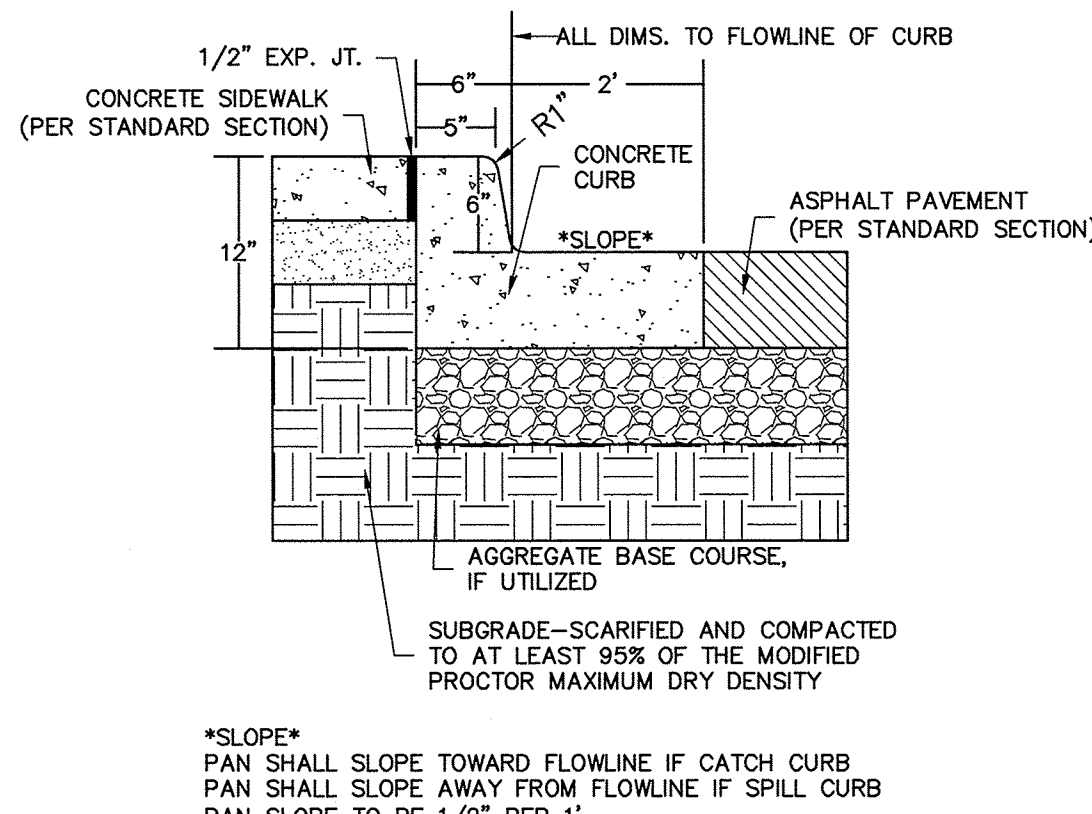
PIPE INLET HEADWALL DETAIL
NOT TO SCALE



WATER QUALITY RISER
NOT TO SCALE



FLUSH CURB AND GUTTER
NOT TO SCALE



CATCH OR SPILL CURB AND GUTTER
NOT TO SCALE

PRIVATE IMPROVEMENT CURB AND GUTTER
NOT TO SCALE

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES					
		NO.	DATE				
		WEP	BY				
		REMARKS	REVISIONS				
		DESIGN	DATE				
		DESIGNED BY: JE	04-20-07				
		DRAWN BY: DS	04-20-07				
		DRAWING NAME: CD/GD012.DWG	JOB NO.: 006-1497				
		CHECKED BY: WEP	DATE: 04-20-07				

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT	
TITLE: McMAHON MARKETPLACE GRADING AND DRAINAGE PLAN DETAIL SHEET	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
LAST DESIGN UPDATE	
MO./DAY/YR.	
CITY PROJECT NO.	
ZONE MAP NO. A-11	
SHEET 12 OF 12 GD012	