

PRIVATE ROOF AND STORM DRAIN SYSTEM NOTES:

- 1) THE ON-SITE PRIVATE ROOF DRAIN SYSTEM WILL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
- 2) THE SYSTEM IS DESIGNED TO CAPTURE AND CONVEY THE TRIBUTARY 100-YEAR FLOWS.
- 3) ALL PRIVATE DRAIN SYSTEMS ARE GASKETED PVC PIPE.
- 4) REFER TO THE CHART IN THE DRAINAGE REPORT AND THE PRIVATE STORM DRAIN PLAN FOR DETAILED INFORMATION ON AREAS TRIBUTARY TO ROOF DRAINS AND THE DRAINAGE SYSTEM AND ASSOCIATED DESIGN FLOWS AND PIPE SIZING.

GENERAL DRAINAGE NOTES

FLOOD PLAIN ZONE X, AREAS OF MINIMAL FLOODING FIRM MAP NO. 0801300555 G, PANEL 555
 DRAINAGE OUTFALL EXISTING PUBLIC STORM DRAIN SYSTEM FOURMILE CANYON CREEK TO BOULDER CREEK

BASIN RUNOFF SUMMARY

BASIN ID	DESIGN PT	AREA (ac)	DIRECT		(y/n)	DESCRIPTION
			Q _s (cfs)	Q ₁₀₀ (cfs)		
H	1	0.99	2.1	5.3	-	HISTORIC BASIN
S	1	0.99	2.4	5.8	y	DEVELOPED SITE
A	1	0.24	0.5	1.2	y	EASTERN SIDE OF SITE (RESERVED R.O.W.)
B	2	0.11	0.2	0.6	n	SOUTHERN EDGE OF SITE AND WALK/PARKWAY
C	3	0.02	0.0	0.1	n	WESTERN EDGE OF SITE
D	4	0.25	1.1	2.1	y	BLDG 1 AND 2 TO PLD WEST
E	5	0.12	0.5	1.0	y	BLDG. 3 TO PLD WEST
F	6	0.19	0.5	1.2	y	CENTER OF SITE TO SUB-GRADE PCPD
G	7	0.05	0.1	0.3	y	PARKING AREA TO PLD WEST
OS1	1	0.19	0.9	1.7	y	ADJACENT TRIBUTARY COMMERCIAL TO PLD EAST
OS2	1	0.99	3.3	7.3	n	BROADWAY DRAINAGE, BYPASSES SITE

RUNOFF FROM BASIN OS1 IS ACCEPTED AND TREATED FOR WATER QUALITY, NOT PEAK RUNOFF

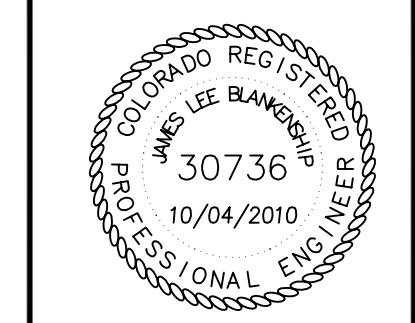
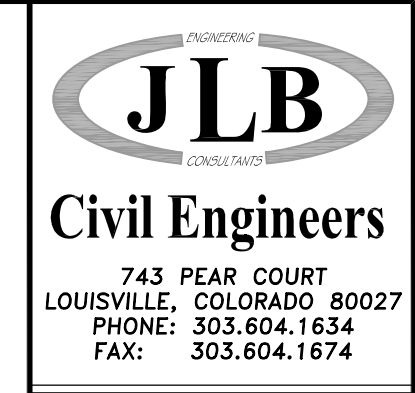
DETENTION SUMMARY

BASIN/POND ID	AREA (ac)	POND INV. (ct)	V ₁ (cf)	WS ₁₀ ELEV. (ct)	V ₂ (cf)	WS ₁₀ ELEV. (ct)	Q ₁₀ (cfs)	V ₃ (cf)	WS ₁₀ ELEV. (ct)	Q ₁₀₀ (cfs)
PCPD	0.19	5540.68	120	5540.88	231	5541.28	0.35	351	5541.48	0.42
EAST	0.43	5538.11	348	5538.89	0	N/A	N/A	0	N/A	N/A
WEST	0.42	5539.07	462	5540.05	0	N/A	N/A	0	N/A	N/A

ELEVATIONS SUBJECT TO FINAL PAVEMENT THICKNESS DESIGN. ESTIMATED IS 6". ENGINEER TO ISSUE SUPPLEMENTAL ELEVATION UPON DETERMINATION OF FINAL PAVEMENT THICKNESS

SITE DESCRIPTION

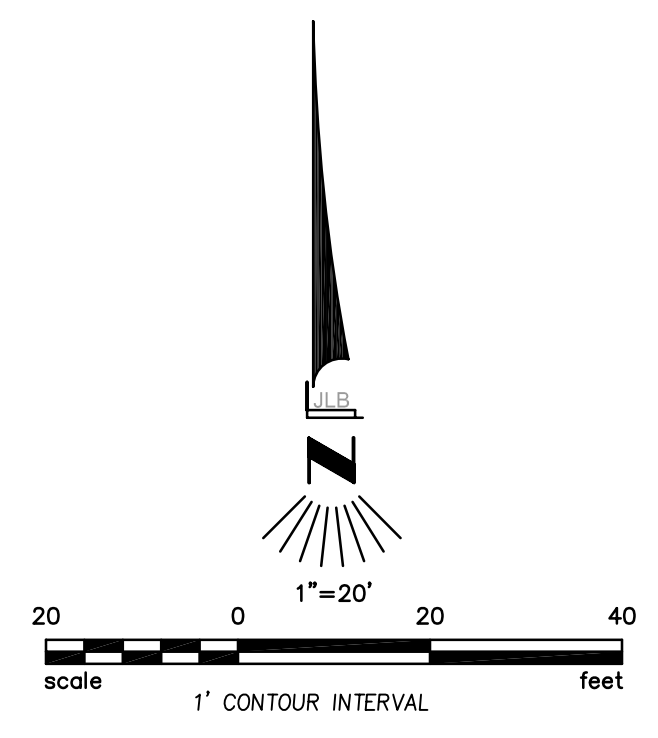
SITE AREA = 0.99 ACRES
 EXISTING BUILDINGS/SITE FEATURES: TO BE REMOVED AND CLEARED
 SITE USE: MULTI-STORY RESIDENTIAL CONDOMINIUM/APARTMENTS

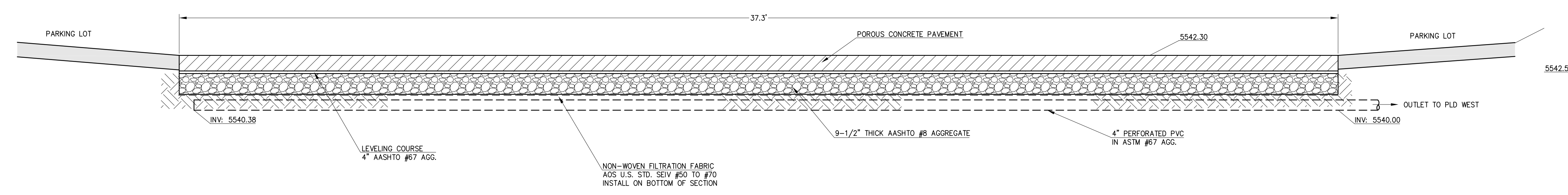


MASTER DRAINAGE STUDY
 4600 BROADWAY
MASTER STORM WATER PLAN
 LOCATED IN THE SOUTHWEST 1/4 OF SECTION 7, TOWNSHIP 1 NORTH, RANGE 70 WEST
 CITY OF BOULDER, COUNTY OF BOULDER, STATE OF COLORADO

DATE	REVISION/ISSUE	APPV	DATE

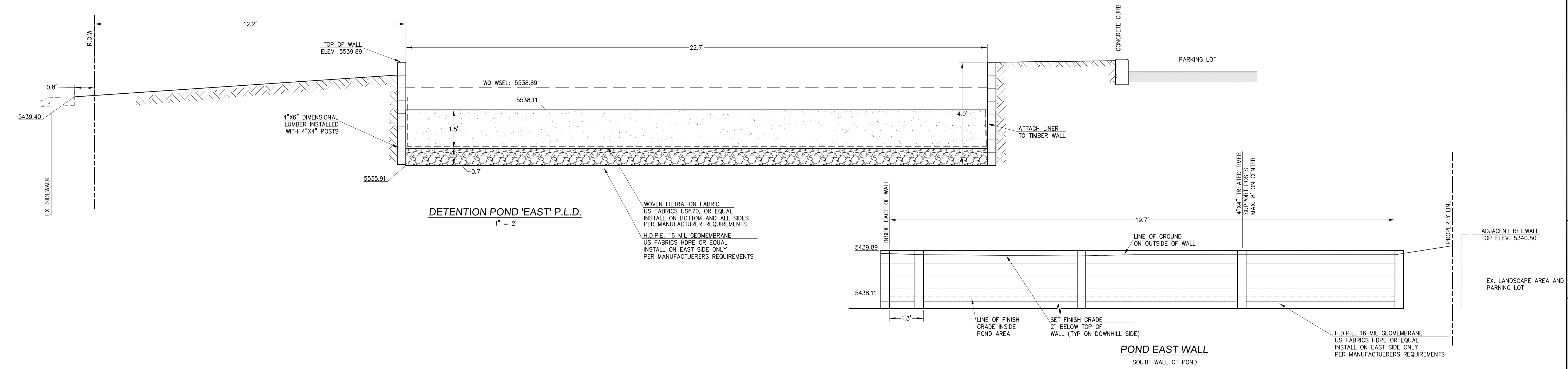
Design	JLB	Drawn	JLB
Checked	JLB	Checked	JLB
Date	OCTOBER 04, 2010		
Job No.	1344		
D-	1344.1		
SHEET			
MDP			
OF 1 SHEETS			





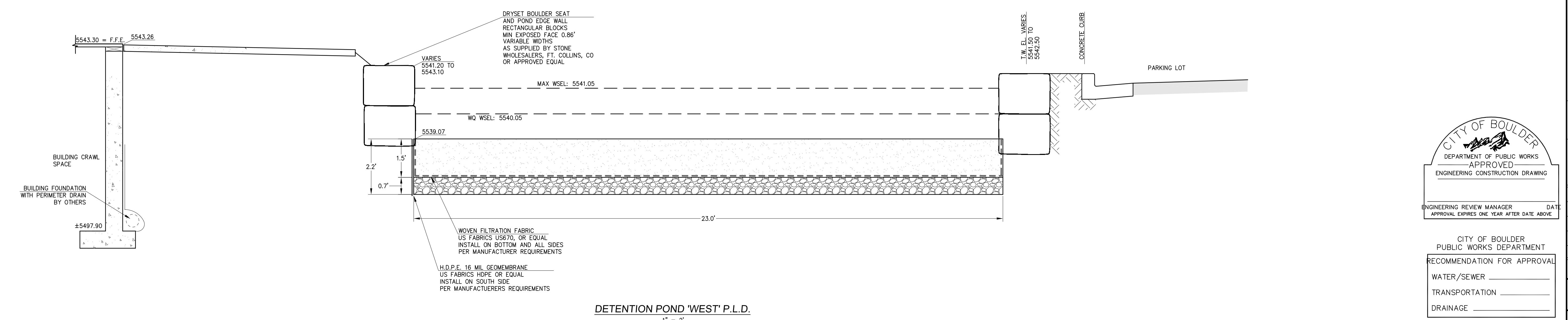
- SUBGRADE NOTE**
- 1.) CONTRACTOR TO NOTIFY GEOTECHNICAL ENGINEER UPON ACHIEVING DESIGN SUBGRADE ELEVATION. IF DESIGN SUBGRADE DOES NOT REACH NATIVE SOILS, CONTRACTOR SHALL EXCAVATE TO DEPTH WHERE NATIVE SOILS ARE ENCOUNTERED. FILL AREA BETWEEN NATIVE SOILS AND BOTTOM OF DESIGN SECTION SHALL BE BASE COURSE MATERIALS MEETING THE REQUIREMENTS OF AASHTO #67, #8 OR #4, FRACTURED FACE AGGREGATES.
 - 2.) IF ABANDONED UTILITIES ARE ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL REMOVE THOSE TO A POINT 5' BEYOND THE EXTENT OF THIS PAVEMENT SECTION AND FILL THEM WITH FLOWABLE FILL.
 - 3.) ALL AGGREGATE SHALL BE CLEANED.
 - 4.) AGGREGATE SECTION AND BOTTOM LOCATION SUBJECT TO FINAL PAVEMENT SECTION THICKNESS.
- UNDERDRAIN NOTE**
- 1.) UNDERDRAIN TO BE LOCATED MIDWAY IN THE NORTH SOUTH DIRECTION OF THE PAVING AREA.
 - 2.) UNDERDRAIN SHALL BE ROUTED TO THE WEST PLD POND AND DAYLIGHT 6" ABOVE THE GRADE OF THE BOTTOM OF THE POND.

POROUS PAVEMENT AND SUB-GRADE DETENTION
1" = 2"



DETENTION POND 'EAST' P.L.D.
1" = 2"

POND EAST WALL
SOUTH WALL OF POND



DETENTION POND 'WEST' P.L.D.
1" = 2"

CITY OF BOULDER
DEPARTMENT OF PUBLIC WORKS
—APPROVED—
ENGINEERING CONSTRUCTION DRAWING

ENGINEERING REVIEW MANAGER DATE
APPROVAL EXPIRES ONE YEAR AFTER DATE ABOVE

CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL
WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____

DATE	APPV	DATE	REVISION/ISSUE