

CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services



November 20, 2014

Scott Steffen, PE
BOHANNAN-HUSTON, INC.
7500 Jefferson Street NE Courtyard I
Albuquerque, NM 87109

Richard J. Berry, Mayor

RE: Valle Prado Units 1 & 2- (File: C09D011)
Justification for Removal of 250' of Storm Drain from Infrastructure List for
Valle Prado Unit 1 (DRB # 1004404, CPN # 740581)
Supplemental Calculations, (InRoads dated 11/11/2014)
Revised Inlet and Storm Drain Network Map, 11-12-2014

Dear Mr. Steffen:

Based upon the information provided in your submittals received 11-13-2014 , the above referenced submittals are approved for an Amendment to the Infrastructure List. The 30" RCP SD in Woodmont Avenue (see SHT 11/19 CPN# 74058, Valle Prado Unit 1) from MH 10 to the plug at the western Tract 9 boundary can be removed from the I.L List, with the condition that

- A new Manhole at the intersection of Nightshine and Woodmont be constructed with this project. A 42" DIA stub will need to be constructed to pick up flows from Basin E1.1, Offsite Basin 2, and Pond B.

PO Box 1293

Albuquerque

New Mexico 87103

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

www.cabq.gov

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Planning Dept.
Development Review Services

Orig: Drainage file
c.pdf Addressee via Email

November 12, 2014

Curtis Cherne, P. E.
Hydrology Section
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 87103

Re: Valle Prado Units 1 and 2, DRB 1004606, CPN#740581 (C09/D011)

Dear Curtis:

This letter is an addendum to the previously approved drainage report for Valle Prado Units 1 and 2. The purpose of this addendum is to provide justification for the removal from the Valle Prado Unit 1 infrastructure list of approximately 250 feet of storm drain in Woodmont Avenue from the west side of Nightshine Street to the Tract 9 west boundary.

Plate 1 of The Trails Units 1, 2 and 3 Drainage Master Plan (DMP) shows a 24" storm drain in Woodmont Avenue at the Tract 9 west boundary with a flow rate of 38.5 cfs. This storm drain serves the outflow from Pond B, Basin E3 (Tract 6) and Basin E4 (Woodmont Avenue).

Per the approved Valle Prado Units 1 and 2 (VP DR) drainage report, runoff from Basin E3 (Tract 6) is conveyed via internal residential streets to the storm drain network in Valle Prado Units 1 and 2, which discharges to Pond E. Basin E3 is contained within portions of VP DR Future Basins 1, 2 and 3. Woodmont Avenue has capacity to convey runoff from Basin E4 (13.1 cfs) without inlets within Basin E4. The VP DR shows inlets just west of the Nightshine Street entrance to Valle Prado Unit 1 that intercepts 10.4 cfs of flow, with a bypass of 3.4 cfs. The inlet location is just downstream of Basin E4. The only flow that would be in the storm drain west of Nightshine Street would be the 3.4 cfs outflow from Pond B.

The developed runoff from DMP Basin E1.1 (Tract 7) south of Woodmont Avenue is 48.5 cfs. Tract 7 will require an internal storm drain network to collect this flow. This network will include running storm drain west in the internal street network parallel to Woodmont Avenue. Rather than running parallel storm drain systems in Woodmont Avenue and Tract 7, it is proposed to extend a storm drain in the Tract 7 internal street network to pick up the 3.4 cfs outflow from Pond B.

Based on the approved VP DR and the proposed extension of storm drain in Tract 7 to serve Pond B it is no longer necessary to extend storm drain in Woodmont Avenue west of the inlets in Woodmont Avenue west of Nightshine Street. Therefore we are requesting to amend the Valle Prado Unit 1 infrastructure list to remove the storm drain as noted above.

Engineering ▲

Spatial Data ▲

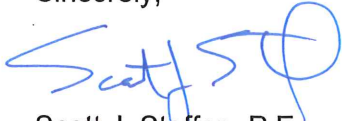
Advanced Technologies ▲

Curtis Cherne, P.E.
Planning Department
November 11, 2014
Page 2

DMP Plate 1, VP DR Exhibit 3 (fully developed basin map) and a revised VP DR Exhibit 4 (inlet and storm drain network map) are included for your information and reference.

If you have any questions or require further information, please feel free to contact me.

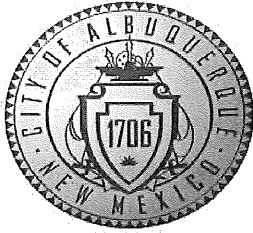
Sincerely,



Scott J. Steffen, P.E.
Vice President
Community Development and Planning Group

Enclosures

cc: Rick Beltramo, Wexford Construction



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: DMP FOR VALLE PRADO UNITS 1 AND 2 Building Permit #: _____ City Drainage #: C09/D011
DRB#: 1004404 EPC#: _____ Work Order#: _____
Legal Description: TRACTS 9 AND 0S-3
City Address: _____

Engineering Firm: BOHANNAN HUSTON INC Contact: SCOTT STEFFEN
Address: 7500 JEFFERSON ST NE COURTYARD 1 ALBUQUERQUE NM 87109
Phone#: 823-1000 Fax#: _____ E-mail: SSTEFFEN@BHINC.COM

Owner: WOODMONT PASEO, LLC Contact: RICK BELTRAMO
Address: 6330 RIVERSIDE PLAZA LANE #160 ALBUQUERQUE NM 87120
Phone#: 505-761-9911 Fax#: _____ E-mail: _____

Architect: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Surveyor: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Contractor: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL G & D PLAN
- ☐ GRADING PLAN
- ☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☐ ENGINEER'S CERT (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEER'S CERT (TCL)
- ☐ ENGINEER'S CERT (DRB SITE PLAN)
- ☐ ENGINEER'S CERT (ESC)
- ☐ SO-19
- ☒ OTHER (SPECIFY)
Drainage Plan Addendum

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ SIA/FINANCIAL GUARANTEE RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY (PERM)
- ☐ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ GRADING CERTIFICATION
- ☐ SO-19 APPROVAL
- ☐ ESC PERMIT APPROVAL
- ☐ ESC CERT. ACCEPTANCE
- ☒ OTHER (SPECIFY)
Infrastructure List

WAS A PRE-DESIGN CONFERENCE ATTENDED: ☐ Yes ☐ No ☐ Copy Provided Amendment

DATE SUBMITTED: 11/12/14 By: SCOTT STEFFEN

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

Design Log

InRoads Storm & Sanitary Design Log

Drainage File: P:\20150013\CDP\Control\Utility\Arch\20140709\20150013_SD.sdb

Design File: P:\20150013\CDP\PLANS\GENERAL\DRAINAGE EXHIBITS\DRAWING1.DWG

Display Log: P:\20150013\CDP\PLANS\GENERAL\DRAINAGE EXHIBITS\design.log

Date: Tuesday, November 11, 2014 5:42:11 PM

HGL/EGL Computations:

Table A:

Struct_ID	D (in)	Q (cfs)	L (ft)	V (ft/s)	d (ft)	dc (ft)	VA2/2g (ft)	Sf (ft/ft)	Dn_Soffit (ft)	EGLdn (ft)	HGLdn (ft)	Tot_Loss (ft)	EGLup (ft)	HGLup (ft)	Rim_Elev. (ft)
Outfall	-	-	-	-	-	-	-	-	-	-	-	-	-	5449.00	-
SDP25	60	177.59	76.79	9.04	-	-	1.27	0.0046	5448.90	5450.27	5449.00	0.36	5450.63	5449.36	-
IN16	-	-	-	-	-	-	-	-	-	5450.63	5449.36	0.31	5450.94	5449.67	5452.43
SDP24	54	166.69	11.31	10.48	-	-	1.71	0.0072	5448.70	5450.94	5449.67	0.08	5451.02	5449.31	-
SDMH11	-	-	-	-	-	-	-	-	-	5451.02	5449.31	0.70	5451.72	5450.01	5452.75
SDP23	54	100.39	96.07	6.31	-	-	0.62	0.0026	5448.86	5451.72	5450.01	0.25	5451.97	5451.35	-
exSDMH1	-	-	-	-	-	-	-	-	-	5451.97	5451.35	0.31	5452.28	5451.66	5452.15
SDP8	48	62.61	211.12	4.98	-	-	0.39	0.0019	5448.76	5452.28	5451.66	0.40	5452.68	5452.29	-
SDMH7	-	-	-	-	-	-	-	-	-	5452.68	5452.29	0.04	5452.72	5452.33	5457.54
SDP6	48	62.61	191.03	20.28	-	-	6.39	0.0019	5451.15	5452.72	5452.33	-	5464.61	5458.22	-
SDMH6	-	-	-	-	-	-	-	-	-	5464.61	5458.22	-	5464.61	5458.22	5466.56
SDP17	48	62.61	218.86	20.31	1.17	2.38	6.41	-	5461.14	5464.72	5458.32	-	5476.13	5469.73	-
SDMH9	-	-	-	-	-	-	-	-	-	5476.13	5469.73	-	5476.13	5469.73	5476.70
SDP14	48	62.61	42.01	16.72	1.35	2.38	4.34	-	5472.65	5474.35	5470.00	-	5475.47	5471.13	-
SDMH12	-	-	-	-	-	-	-	-	-	5475.47	5471.13	-	5475.47	5471.13	5478.77
SDP18	42	51.81	38.18	8.06	2.22	2.25	1.01	-	5473.27	5473.00	5471.99	-	5473.17	5472.16	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	5450.63	5449.36	-
IN16	-	-	-	-	-	-	-	-	-	5450.63	5449.36	0.08	5450.70	5449.43	5452.43
SDP28	18	7.50	20.06	4.24	-	-	0.28	0.0051	5449.43	5450.70	5449.43	0.10	5450.81	5450.53	-
IN14	-	-	-	-	-	-	-	-	-	5450.81	5450.53	-	5450.81	5450.53	5452.93
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	5451.02	5449.31	-
SDMH11	-	-	-	-	-	-	-	-	-	5451.02	5449.31	0.37	5451.39	5449.68	5452.75
SDP29	36	55.40	74.64	7.84	-	-	0.95	0.0069	5447.42	5451.39	5449.68	0.51	5451.90	5450.95	-
SDMH2	-	-	-	-	-	-	-	-	-	5451.90	5450.95	0.16	5452.06	5451.10	5454.09
SDP3	24	30.20	97.93	9.61	-	-	1.44	0.0178	5450.33	5452.06	5451.10	1.75	5453.80	5452.37	-
SDMH3	-	-	-	-	-	-	-	-	-	5453.80	5452.37	0.61	5454.41	5452.97	5455.53
SDP4	24	30.20	113.83	9.61	-	-	1.44	0.0178	5451.74	5454.41	5452.97	2.03	5456.44	5455.00	-
SDMH4	-	-	-	-	-	-	-	-	-	5456.44	5455.00	0.48	5456.92	5455.49	5459.00
SDP5	24	30.20	177.97	15.83	-	-	3.90	0.0178	5455.23	5456.92	5455.49	-	5465.69	5461.80	-
SDMH5	-	-	-	-	-	-	-	-	-	5465.69	5461.80	-	5465.69	5461.80	5466.43
SDP32	24	17.80	59.75	8.55	1.26	1.52	1.14	-	5464.62	5465.02	5463.88	-	5465.65	5464.52	-
IN11	-	-	-	-	-	-	-	-	-	5465.65	5464.52	-	5465.65	5464.52	5467.76
SDP31	24	8.90	28.04	12.18	0.57	1.06	2.30	-	5465.26	5466.82	5464.52	-	5467.37	5465.06	-
IN12	-	-	-	-	-	-	-	-	-	5467.37	5465.06	-	5467.37	5465.06	5469.00
SDP30	18	5.50	20.01	10.87	0.49	0.90	1.84	-	5466.00	5466.90	5465.06	-	5467.51	5465.67	-
IN10	-	-	-	-	-	-	-	-	-	5467.51	5465.67	-	5467.51	5465.67	5470.17

revised sd hgl.txt													
New Branch	-	-	-	-	-	-	-	-	-	-	-	5451.02	5449.31
SDMH11	-	-	-	-	-	-	-	-	-	-	-	5451.34	5449.63
SDP27	24	10.90	41.04	3.47	-	-	0.19	0.0023	5446.07	5451.34	5449.63	5451.25	5452.75
IN15	-	-	-	-	-	-	-	-	-	5451.43	5451.25	5451.43	5453.15
SDP26	18	7.50	20.03	4.24	-	-	0.28	0.0051	5450.15	5451.62	5451.43	5451.44	-
IN13	-	-	-	-	-	-	-	-	-	5451.72	5451.44	5451.44	5453.36
New Branch	-	-	-	-	-	-	-	-	-	-	-	5451.97	5451.35
exSDMH1	-	-	-	-	-	-	-	-	-	5451.97	5451.35	5452.22	5451.60
SDP20	24	37.78	174.64	12.03	-	-	2.25	0.0279	5446.76	5452.22	5451.60	5457.09	5454.84
New Branch	-	-	-	-	-	-	-	-	-	-	-	5475.47	5471.13
SDMH12	-	-	-	-	-	-	-	-	-	5475.47	5471.13	5475.47	5471.13
SDP7	48	10.80	71.96	10.62	0.54	0.95	1.75	-	5473.98	5472.88	5471.13	5474.70	5472.95
SDMH10	-	-	-	-	-	-	-	-	-	5474.70	5472.95	5474.70	5472.95
SDP21	18	5.40	29.80	9.36	0.54	0.89	1.36	-	5477.74	5478.15	5476.79	5478.99	5477.63
IN1	-	-	-	-	-	-	-	-	-	5478.99	5477.63	5478.99	5477.63
New Branch	-	-	-	-	-	-	-	-	-	-	-	5451.90	5450.95
SDMH2	-	-	-	-	-	-	-	-	-	5451.90	5450.95	5452.16	5451.20
SDP11	24	25.20	70.94	8.02	-	-	1.00	0.0124	5450.01	5452.16	5451.20	5453.04	5452.04
IN5	-	-	-	-	-	-	-	-	-	5453.04	5452.04	5453.27	5452.27
SDP15	24	14.60	275.46	12.26	-	-	2.33	0.0042	5452.46	5453.27	5452.27	5463.08	5460.75
IN3	-	-	-	-	-	-	-	-	-	5463.08	5460.75	5463.08	5460.75
SDP16	18	7.30	28.03	11.23	0.59	1.04	1.96	-	5461.44	5462.71	5460.75	5463.57	5461.61
IN4	-	-	-	-	-	-	-	-	-	5463.57	5461.61	5463.57	5461.61
New Branch	-	-	-	-	-	-	-	-	-	-	-	5465.69	5461.80
SDMH5	-	-	-	-	-	-	-	-	-	5465.69	5461.80	5465.69	5461.80
SDP2	24	12.40	85.47	12.27	0.71	1.26	2.34	-	5464.62	5465.68	5463.34	5468.84	5466.50
IN8	-	-	-	-	-	-	-	-	-	5468.84	5466.50	5469.89	5467.55
(Alternate HGL and EGL Used)	-	-	-	-	-	-	-	-	-	-	-	5468.84	5466.50
SDP1	18	6.20	28.01	5.06	0.98	0.96	0.40	0.0060	5467.96	5468.08	5467.69	5468.08	5467.69
IN7	-	-	-	-	-	-	-	-	-	5468.25	5467.85	5468.25	5467.85
New Branch	-	-	-	-	-	-	-	-	-	-	-	5465.65	5464.52
IN11	-	-	-	-	-	-	-	-	-	5465.65	5464.52	5465.65	5464.52
SDP33	18	5.50	23.04	11.86	0.46	0.90	2.19	-	5464.76	5466.70	5464.52	5466.97	5464.78
IN9	-	-	-	-	-	-	-	-	-	5466.97	5464.78	5466.97	5464.78
New Branch	-	-	-	-	-	-	-	-	-	-	-	5474.70	5472.95
SDMH10	-	-	-	-	-	-	-	-	-	5474.70	5472.95	5474.70	5472.95
SDP22	18	5.40	30.97	7.51	0.64	0.89	0.88	-	5477.73	5477.74	5476.87	5478.23	5477.35
IN2	-	-	-	-	-	-	-	-	-	5478.23	5477.35	5478.23	5477.35
New Branch	-	-	-	-	-	-	-	-	-	-	-	5453.04	5452.04
IN5	-	-	-	-	-	-	-	-	-	5453.04	5452.04	5453.15	5452.15
SDP12	18	5.30	28.02	3.00	-	-	0.14	0.0025	5451.96	5453.15	5452.15	5453.23	5453.09
IN6	-	-	-	-	-	-	-	-	-	5453.23	5453.09	5453.23	5453.09

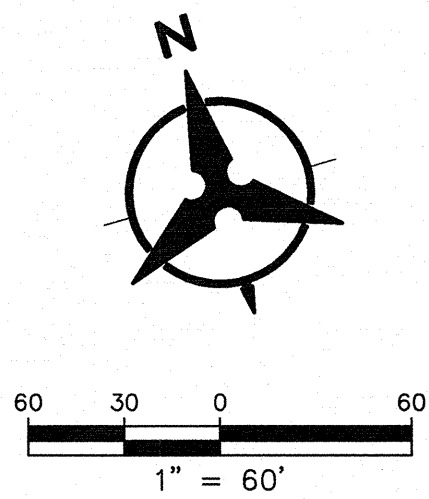
Table B:

LOSSES								- LOSS_COEFFICIENTS							
Str_ID	Hf	Hb	Hstr	Hc	He	Hj	Total	Dstr	Ko	CD	Cd	Cq	Cp	Cb	K
outfall	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP25	0.36	-	-	-	-	-	0.36	-	-	-	-	-	-	-	-
IN16	-	-	0.31	-	-	-	0.31	5.16	0.452	1.000	0.509	1.063	1.000	1.000	0.245
SDP24	0.08	-	-	-	-	-	0.08	-	-	-	-	-	-	-	-
SDMH11	-	-	0.70	-	-	-	0.70	5.07	1.526	1.000	0.537	0.499	1.000	1.000	0.409
SDP23	0.25	-	-	-	-	-	0.25	-	-	-	-	-	-	-	-
exSDMH1	-	-	0.31	-	-	-	0.31	6.59	1.526	1.000	0.629	0.520	1.000	1.000	0.499
SDP8	0.40	-	-	-	-	-	0.40	-	-	-	-	-	-	-	-

revised sd hgl.txt															
SDMH7	-	-	0.04	-	-	-	0.04	5.24	0.174	1.000	0.588	1.000	1.000	1.000	0.103
SDP6	0.36	-	-	-	-	-	0.36	-	-	-	-	-	-	-	-
SDMH6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP17	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-	-
SDMH9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP14	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-	-
SDMH12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP18	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IN16	-	-	0.08	-	-	-	0.08	5.16	1.422	1.000	0.509	0.082	1.000	1.000	0.059
SDP28	0.10	-	-	-	-	-	0.10	-	-	-	-	-	-	-	-
IN14	-	-	-	-	-	-	-	1.60	-	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDMH11	-	-	0.37	-	-	-	0.37	5.07	1.526	1.000	0.537	0.261	1.000	1.000	0.214
SDP29	0.51	-	-	-	-	-	0.51	-	-	-	-	-	-	-	-
SDMH2	-	-	0.16	-	-	-	0.16	2.69	0.228	1.000	0.468	1.531	1.000	1.000	0.163
SDP3	1.75	-	-	-	-	-	1.75	-	-	-	-	-	-	-	-
SDMH3	-	-	0.61	-	-	-	0.61	2.72	0.704	1.000	0.601	1.000	1.000	1.000	0.423
SDP4	2.03	-	-	-	-	-	2.03	-	-	-	-	-	-	-	-
SDMH4	-	-	0.48	-	-	-	0.48	1.85	0.705	1.000	0.477	1.000	1.000	1.000	0.336
SDP5	3.17	-	-	-	-	-	3.17	-	-	-	-	-	-	-	-
SDMH5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP32	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-	-
IN11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP31	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-	-
IN12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP30	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-	-
IN10	-	-	-	-	-	-	-	0.49	-	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDMH11	-	-	0.32	-	-	-	0.32	5.07	0.178	1.000	0.537	1.951	1.000	1.000	0.186
SDP27	0.10	-	-	-	-	-	0.10	-	-	-	-	-	-	-	-
IN15	-	-	0.18	-	-	-	0.18	2.60	1.671	1.000	0.585	1.000	1.000	1.000	0.977
SDP26	0.10	-	-	-	-	-	0.10	-	-	-	-	-	-	-	-
IN13	-	-	-	-	-	-	-	2.08	-	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
exSDMH1	-	-	0.25	-	-	-	0.25	6.59	0.459	1.000	0.629	1.409	1.000	1.000	0.407
SDP20	4.87	-	-	-	-	-	4.87	-	-	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDMH12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP7	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-	-
SDMH10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP21	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-	-
IN1	-	-	-	-	-	-	-	0.54	-	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDMH2	-	-	0.25	-	-	-	0.25	2.69	1.553	1.000	0.468	0.366	1.000	1.000	0.266
SDP11	0.88	-	-	-	-	-	0.88	-	-	-	-	-	-	-	-
IN5	-	-	0.24	-	-	-	0.24	1.58	0.366	1.000	0.433	1.491	1.000	1.000	0.236
SDP15	1.15	-	-	-	-	-	1.15	-	-	-	-	-	-	-	-
IN3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP16	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-	-
IN4	-	-	-	-	-	-	-	0.59	-	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDMH5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP2	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-	-
IN8	-	-	1.05	-	-	-	1.05	0.72	1.667	1.000	0.270	1.000	1.000	1.000	0.450
SDP1	0.17	-	-	-	-	-	0.17	-	-	-	-	-	-	-	-
IN7	-	-	-	-	-	-	-	1.25	-	-	-	-	-	-	-

							revised sd hg1.txt										
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IN11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP33	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-	-	-	-
IN9	-	-	-	-	-	-	-	0.46	-	-	-	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDMH10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP22	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-	-	-	-
IN2	-	-	-	-	-	-	-	0.64	-	-	-	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IN5	-	-	0.12	-	-	-	0.12	-	-	-	-	-	-	-	-	-	-
SDP12	0.07	-	-	-	-	-	0.07	1.58	1.670	1.000	0.433	0.163	1.000	1.000	0.118	-	-
IN6	-	-	-	-	-	-	-	1.73	-	-	-	-	-	-	-	-	-

VALLE PRADO
UNITS 1 & 2
INLET AND STORM DRAIN NETWORK MAP
REVISED 11/12/14



- LEGEND
- PROPOSED STORM DRAIN PIPE
 - PROPOSED STORM DRAIN MANHOLE
 - PROPOSED STORM DRAIN INLET

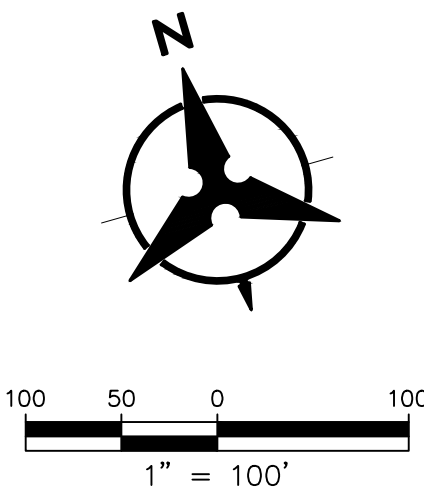
SUMMARY OF PIPE FLOWS				
ID	SIZE	SLOPE (%)	Q (cfs) ALLOWABLE	Q (cfs) ACTUAL
SDP1	18"	0.6%	8.1	6.2
SDP2	24"	4.0%	45.2	12.4
SDP3	24"	1.4%	27.0	30.2
SDP4	24"	3.1%	39.9	30.2
SDP5	24"	4.3%	46.8	30.2
SDP6	48"	5.4%	333.8	62.6
SDP7	48"	3.7%	276.3	10.8
SDP8	48"	1.1%	150.7	62.6
SDP9	18"	2.1%	15.2	3.1
SDP10	24"	2.1%	32.8	6.2
SDP11	24"	3.8%	44.1	25.2
SDP12	18"	3.7%	20.2	5.3
SDP13	18"	1.0%	10.5	3.1
SDP14	48"	3.1%	252.9	62.6
SDP15	24"	3.5%	42.5	14.6
SDP16	18"	4.4%	22.1	7.3
SDP17	48"	4.4%	301.3	62.6
SDP18	42"	0.5%	71.1	51.8
SDP19	24"	0.5%	16.0	6.2
SDP20	24"	1.7%	29.5	37.8
SDP21	18"	3.4%	19.4	5.4
SDP22	18"	1.8%	14.1	5.4
SDP23	54"	0.5%	132.4	100.4
SDP24	54"	0.8%	175.9	166.7
SDP25	60"	0.4%	164.7	177.6
SDP26	18"	5.3%	24.1	7.5
SDP27	24"	13.1%	82.0	10.9
SDP28	18"	7.4%	28.6	7.5
SDP29	36"	5.7%	159.0	55.4
SDP30	18"	5.0%	23.6	5.5
SDP31	24"	5.1%	51.1	8.9
SDP32	24"	1.2%	24.7	17.8
SDP33	18"	6.4%	26.6	5.5

SUMMARY OF INLET FLOWS					
ID	STREET SLOPE	WATER DEPTH (ft)	STREET FLOW UPSTREAM OF INLET (cfs)	FLOW CAPTURED BY INLET (cfs)	STREET FLOW BYPASSING INLET (cfs)
IN1	4.30%	0.33	7.1	5.4	1.7
IN2	4.30%	0.33	7.1	5.4	1.7
IN3	3.50%	0.40	12.8	7.3	5.5
IN4	3.50%	0.40	12.8	7.3	5.5
IN5	2.50%	0.37	8.0	5.3	2.7
IN6	2.50%	0.37	8.0	5.3	2.7
IN7	6.70%	0.33	9.0	6.2	2.8
IN8	6.70%	0.33	9.0	6.2	2.8
IN9	0.80%	0.47	10.7	5.5	5.2
IN10	0.80%	0.47	10.7	5.5	5.2
IN11	0.80%	0.38	5.2	3.4	1.8
IN12	0.80%	0.38	5.2	3.4	1.8
IN13	1.80%	0.45	12.8	7.5	5.3
IN14	1.80%	0.45	12.8	7.5	5.3
IN15	2.80%	0.32	5.3	3.4	1.9
IN16	2.80%	0.32	5.3	3.4	1.9
IN17	5.00%	0.26	3.5	3.1	0.4
IN18	5.00%	0.26	3.5	3.1	0.4

SUMMARY OF MANHOLES FLOWS	
ID	STORM DRAIN FLOWRATE (cfs)
exSDMH1	100.4
MH1	6.2
MH2	55.4
MH3	30.2
MH4	30.2
MH5	30.2
MH6	62.6
MH7	62.6
MH8	6.2
MH9	62.6
MH10	10.8
MH11	166.7
MH12	62.6



VALLE PRADO
FULLY DEVELOPED BASIN MAP



LEGEND

BASIN BOUNDARY	
FLOW ARROW	
PROPOSED STORM DRAIN	
EXISTING STORM DRAIN	
TEMPORARY BERM	
DMP BASIN BOUNDARY	

BASIN	AREA (AC)	Q (100YR-24HR) (CFS)
BASIN 1	3.2	8.9
BASIN 2	2.9	7.9
BASIN 3	4.4	11.2
BASIN 4	2.3	6.3
BASIN 5	1.2	3.1
FUTURE BASIN 1	6.9	19.9
FUTURE BASIN 2	4.8	13.5
FUTURE BASIN 3	3.8	10.8
FUTURE BASIN 4	3.1	8.1
OFFSITE BASIN 2	0.6	0.6
OFFSITE BASIN 3	0.7	0.7
OFFSITE BASIN 4	0.9	0.9
OFFSITE BASIN 5	2.1	2
OFFSITE BASIN WELL	1.0	2.3
OFFSITE BASIN 6	0.9	2.3
TOTAL	38.8	98.5



