

100-Year Ditch Flow Hydraulic Summary				
Cross Section ID	Slope (%)	Q ₁₀₀ (cfs)	Normal Depth (ft)	Description
1I	0.65	35	0.79	Earthen Lined Trap. Channel: 10-ft Bottom, 3:1 SS, Min. 2.0-ft Depth
1I-1	3.70	11	0.24	Earthen Lined Trap. Channel: 10-ft Bottom, 3:1 SS, Min. 2.0-ft Depth
2I	0.90	19	0.51	Earthen Lined Trap. Channel: 10-ft Bottom, 3:1 SS, Min. 2.0-ft Depth
3I	1.90	32	0.55	Earthen Lined Trap. Channel: 10-ft Bottom, 3:1 SS, Min. 2.0-ft Depth
6I	0.80	59	1.00	Earthen Lined Trap. Channel: 10-ft Bottom, 3:1 SS, Min. 2.0-ft Depth
7I	1.50	85	0.60	Earthen Lined Trap. Channel: 26.5-ft Bottom, 3:1 SS, Min. 2.0-ft Depth
8I	0.90	85	0.96	Earthen Lined Trap. Channel: 15-ft Bottom, 4:1&3:1 SS, Min. 2.0-ft Depth
9I	0.50	60	1.15	Earthen Lined Trap. Channel: 10-ft Bottom, 3:1 SS, Min. 2.5-ft Depth
10I	0.50	35	0.85	Earthen Lined Trap. Channel: 10-ft Bottom, 3:1 SS, Min. 2.0-ft Depth
11I	1.90	27.5	0.46	Earthen Lined Trap. Channel: 12-ft Bottom, 3:1 SS, Min. 2.0-ft Depth
12I	0.50	27.5	0.67	Earthen Lined Trap. Channel: 12-ft Bottom, 3:1 SS, Min. 2.0-ft Depth

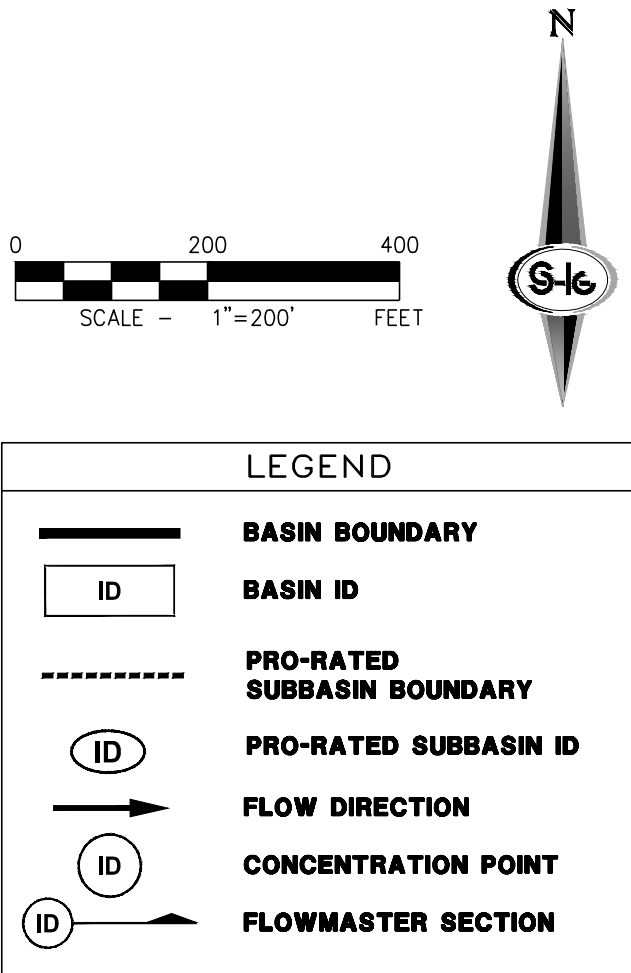
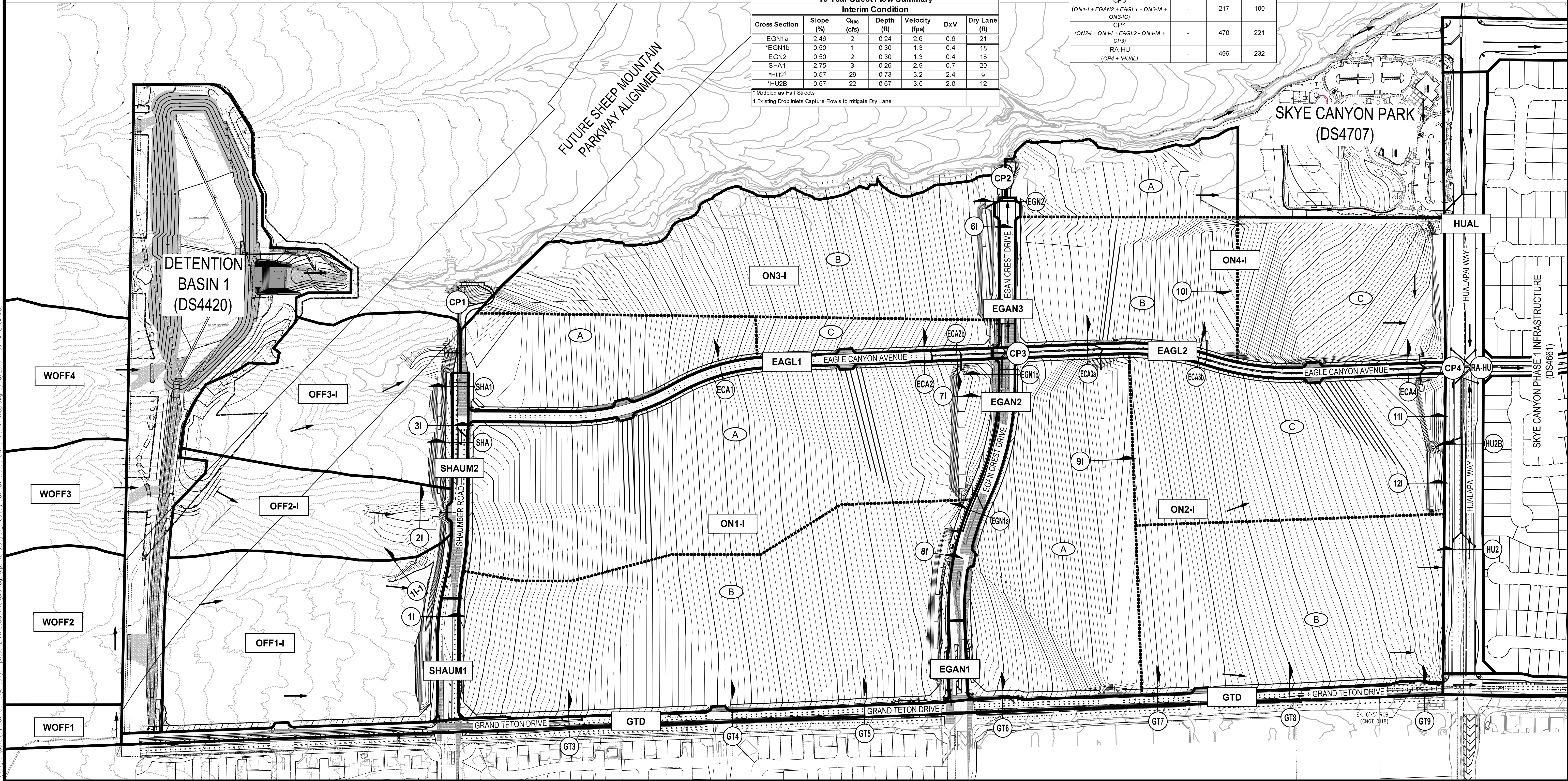
Interim Condition Prorated Flow Summary			
Basin	Q ₁₀₀ (cfs)	Area (acres)	Unit Flow (cfs/acre)
ON1-I	170	62.6	2.7
ON2-I	176	57.4	3.1
ON3-I	94	32.6	2.9
ON4-I	90	29.4	3.1
Subbasin	Q ₁₀₀ (cfs)	Area (acres)	Unit Flow (cfs/acre)
ON1-IA	85	31.4	2.7
ON1-IB	85	31.3	2.7
TOTAL	170	62.6	
ON2-IA	60	19.7	3.1
ON2-IB	61	19.8	3.1
ON2-IC	55	17.9	3.1
TOTAL	176	57.4	
ON3-IA	26	9.1	2.9
ON3-IB	59	20.4	2.9
ON3-IC	9	3.2	2.9
TOTAL	94	32.6	
ON4-IA	19	6.3	3.1
ON4-IB	35	11.3	3.1
ON4-IC	36	11.8	3.1
TOTAL	90	29.4	

100-Year Street Flow Summary					
Interim Condition					
Cross Section	Slope (%)	Q ₁₀₀ (cfs)	Depth (ft)	Velocity (fps)	DxV
ECA1	4.90	30	0.45	6.0	2.7
ECA2	4.90	43	0.50	6.5	3.2
ECA2b	2.00	13	0.40	3.5	1.4
ECA3a	4.94	5	0.28	4.0	1.1
ECA3b	4.94	42	0.49	6.5	3.2
ECA4	0.50	51	0.71	3.3	2.3
EGN1a	2.46	4	0.29	2.9	0.8
*EGN1b	0.50	2.5	0.38	1.6	0.6
EGN2	0.50	3	0.33	1.5	0.5
*SHA	2.75	2.5	0.29	3.0	0.9
*SHA (West Half)	2.75	2.5	0.26	2.3	0.6
SHA1	2.75	5	0.30	3.2	1.0
**GT3	3.80	10	0.40	5.6	2.2
***GT4	3.80	5	0.34	4.3	1.5
***GT5	4.30	3	0.30	4.1	1.2
**GT6	3.40	4	0.33	3.9	1.3
***GT7	3.50	2	0.27	3.5	0.9
***GT8	3.30	2	0.28	3.4	0.9
***GT9	3.60	2	0.27	3.5	0.9
*HU2	0.57	61	0.92	3.9	3.6
*HU2B	0.57	45	0.84	3.6	3.0
* Modeled as Half Streets					
** Basin GTD/3 + Bypass and/or Onsite Street Basin					
*** Basin GTD/9 +Bypass and/or Onsite Street Basin					

Basin Flow Rate Summary			
(Interim Condition)			
Basin/Concentration Point ID	Area (ac)	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)
ON1-I	62.6	170	78
ON2-I	57.4	176	83
ON3-I	32.6	94	44
ON4-I	29.4	90	43
OFF1-I	19.7	35	11
OFF2-I	8.8	19	6
OFF3-I	13.6	32	12
EAGL1	2.3	8	4
EAGL2	1.9	7	4
EGAN1	0.6	2	1
EGAN2	2.2	8	4
EGAN3	0.9	3	2
GTD	5.9	18	10
*HUAL	9.2	26	11
SHAUM1	1.0	4	2
SHAUM2	1.4	5	3
*REFERENCED FROM THE SKYE CANYON PHASE 1 STUDY.			

Concentration Points Summary			
(Interim Condition)			
Basin/Concentration Point ID	Area (ac)	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)
CP1 (OFF1-I + OFF2-I + OFF3-I + SHAUM)	-	92	32
CP2 (ON3-IB + EGAN3)	-	62	30
CP3 (ON1-I + EGAN2 + EAGL1 + ON3-IA + ON3-IC)	-	217	100
CP4 (ON2-I + ON4-I + EAGL2 - ON4-IA + CP3)	-	470	221
RA-HU (CP4 + *HUAL)	-	496	232

10-Year Street Flow Summary						
Interim Condition						
Cross Section	Slope (%)	Q ₁₀₀ (cfs)	Depth (ft)	Velocity (fps)	DxV	Dry Lane (ft)
EGN1a	2.46	2	0.24	2.6	0.6	21
*EGN1b	0.50	1	0.30	1.3	0.4	18
EGN2	0.50	2	0.30	1.3	0.4	18
SHA1	2.75	3	0.28	2.9	0.7	20
*HU2	0.57	29	0.73	3.2	2.4	9
*HU2B	0.57	22	0.67	3.0	2.0	12
* Modeled as Half Streets						
1 Existing Drop Inlets Capture Flow's to mitigate Dry Lane						



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SLATER
HANIFAN
GROUP

CONSULTING ENGINEERS & PLANNERS

5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300
FAX (702) 284-5300

DATE: APRIL 2016

DRAFTER: ETM

DESIGNER: ETM

CHECKED: SOA

PROJECT NO.
OLY1501.001

EXHIBIT E

SHEET 1 OF 1

NINETY-FIVE MANAGEMENT, LLC.

SKYE CANYON - PHASE 2 INFRASTRUCTURE

INTERIM CONDITION DRAINAGE MAP