REGIONAL FLOOD CONTROL DISTRICT

2008
LAS VEGAS VALLEY
FLOOD CONTROL
MASTER PLAN UPDATE

FIGURE F-12
FLOOD CONTROL FACILITIES

LEGEND

- Ultimate Development Boundary
- Existing Facilities
- Category A Proposed Facilities
- Category B Proposed Facilities
- Local Existing Facilities
- Local Proposed Facilities
- Detention Basin
- Culvert or Bridge Crossing
- Stormdrain
- Lined Channel
- Unlined Channel
- Levee/Dike
- Natural Wash/Floodway
- ID-Mile Separator

Remove & Replace/Parallel Facilities

Category A	Category B
Channel	Channel
Stormdrain	Stormdrain
Crossing	Crossing

N

0 500 1,000 2,000 3,000
Feet
Scale: 1 inch = 2,000 feet
Refer to Figure G-2 for Aerial Source(s)

US95 I-15 I-215

	1	2	3				
	4	5	6				
		7	8	9	10		
11	12	13	14	15	16	17	
	18	19	20	21	22	23	
	24	25	26	27	28		
	29	30	31	32	33	34	
	35	36	37	38	39	40	
	41	42	43	44	45	46	
	47	48	49	50	51	52	
	53	54	55	56			
	57	58	59				

PBSJ PB

ID / River Mile	Status	Facility Description	Length (ft.)	Flow (cfs)	HEC-1 Node	HEC-1 Model	Tributary Area (sq.mi.)	Channel Slope (%) **
CNGT		**CENTENNIAL PKWY CHANNEL WEST / GRAND TETON BRANCH**						
0118	E	6' X 5' RCAP	5472	363	KYLEDET*	KYLEDB	57.73	3.72
0222	E	6' X 6' RCAP	305	363	KYLEDET	KYLEDB	57.73	1.16
0234	E	6' X 4' RCAP	885	363	KYLEDET	KYLEDB	57.73	4.50
0247	E	6' X 5' RCAP	1600	363	KYLEDET	KYLEDB	57.73	1.63
CNKC		**CENTENNIAL PKWY CHANNEL WEST / KYLE CANYON BRANCH**						
0115	P0	72" RCP	1513	452	NW45-S	WEST3	0.27	3.00
EKHU		**ELKHORN AND HUALAPAI**						
0003	E	6' X 4' RCAP	980	638	CNW26-C	WEST3	0.51	3.61
0020	E	6' X 5' RCAP	150	638	CNW26-C	WEST3	0.51	3.61
0023	E	8' X 5' RCAP	1200	638	CNW26-C	WEST3	0.51	0.90
GOAN		**GOWAN ANN ROAD DETENTION BASIN FACILITIES**						
0070	E	Soil Cement Chnl 10'W 4'-7'D 4:1 SS	3125	1045	CCAMDK3	ALLGOW3	0.65	3.00
0127	E	Soil Cement Chnl 10'W 2'-6'D 4:1 SS	1292	531	CAMDK3	ALLGOW3	0.32	1.73
GOBW		**GOWAN BELTWAY WEST**						
0291	P2	8' X 6' RCB	1255	795	CMNA2	ALLGOW3	0.49	1.70
0315	P1	6' X 6' RCB	1360	591	CDMNA3	ALLGOW3	0.35	4.00
KCUN		**KYLE CANYON AND UNKNOWN**						
0000	P1	84" RCP	685	751	CNW1-C	LOWER3	0.69	2.20
LVMD		**LAS VEGAS WASH - MIDDLE**						
3313	E	120,000 cfs PMF Spillway		120000	KYLEDB	KYLEDB	57.73	
3314	E	78" RCP Outlet	385	363	KYLEDET	KYLEDB	57.73	
3315	E	3,200 ac-ft Kyle Canyon Detention Basin		13554	KYLEDB	KYLEDB	57.73	
3316	E	Riprap Levee (South) 5'	1250	13554	KYLEDB	KYLEDB	57.73	3.00
MOKC		**MOCCASIN AND KYLE CANYON**						
0222	P1	9' X 8' RCB	3900	2192	CNW-7	LOWER3	2.19	3.46
0325	P1	9' X 8' RCB	5700	2192	CNW-7	LOWER3	2.19	3.65
0380	P1	90" RCP	3000	1146	COFF5-1	LOWER3	1.02	3.73
MOSH		**MOCCASIN AND SHEEP MOUNTAIN**						
0000	P1	Conc Chnl 12'W 7.5'D 0:1 SS	2640	1963	COFF1A-6	LOWER3	3.70	2.71
0053	P1	Conc Chnl 12'W 8.5'D 0:1 SS	2640	1758	COFF2B	LOWER3	3.23	1.39
MOSM		**MOCCASIN AND SHEEP MOUNTAIN PARKWAY**						
0000	P1	12' X 9' RCB	6530	3751	CNW50-W	LOWER3	4.10	3.06
0124	P1	12' X 6' RCB	2890	1587	CNW21-C	LOWER3	1.69	2.40
0179	P1	9' X 6' RCB	1820	1096	COFF8	LOWER3	1.18	2.12
0214	P1	8' X 6' RCB	2088	846	COFF9	LOWER3	0.88	2.21
RCBC		**RANCHO ROAD SYSTEM - BELTWAY CHANNEL**						
0100	E	Conc Chnl 12'W 5.5'D 0:1 SS	2085	598	CDMNA1	WEST3	0.48	2.88
0140	E	Conc Chnl 10'W 5'D 0:1 SS	2155	598	CDMNA1	WEST3	0.48	1.65

** The HEC-1 node shown identifies the controlling concentration point for the associated facility and is located upstream of this facility due to decreasing peak flow with increasing tributary area caused by storm distribution transitions, depth area reduction factors, or attenuation of flow from routing.*

*** As-built or design slopes were used when available. All other slopes are based on existing topography. The user should verify the facility slope listed prior to performing any facility specific analysis.*

^ For parallel facilities, the existing facility flow equals its normal depth capacity, and the proposed parallel facility flow equals the remaining flow (i.e., HEC-1 Node flow = existing facility normal depth capacity + proposed parallel facility flow).

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FACILITY INVENTORY FIGURE F - 12

LEGEND

ID (Facility Identifier) AABB
- Parent Stream Name
- Stream Name

River Mile 0000
- Distance Above Confluence with Parent Stream (Miles)
- Miles in Hundredths

Existing Facility..... E
Proposed or Modified Facility..... P
Contingency Level
- Category B..... P0
- Master Plan..... P1
- Preliminary Design..... P2
- Design..... P3

Bottom Width..... W

Depth..... D

Side Slope, H:V..... SS

Construction Features

Cast in Place Concrete Pipe.....	CIPCP
Corrugated Metal Arch Pipe Culvert.....	CMAP
Corrugated Metal Pipe Culvert.....	CMPC
High Density Polyethylene.....	HDPE
Horizontal Elliptical Reinforced Concrete Pipe.....	HERCP
Reinforced Concrete Arch Pipe.....	RCAP
Reinforced Concrete Arch Culvert.....	RCAC
Reinforced Concrete Box.....	RCB
Reinforced Concrete Box Culvert.....	RCBC
Reinforced Concrete Pipe.....	RCP
Reinforced Concrete Pipe Culvert.....	RCPC
Storm Sewer Pipe.....	SSP

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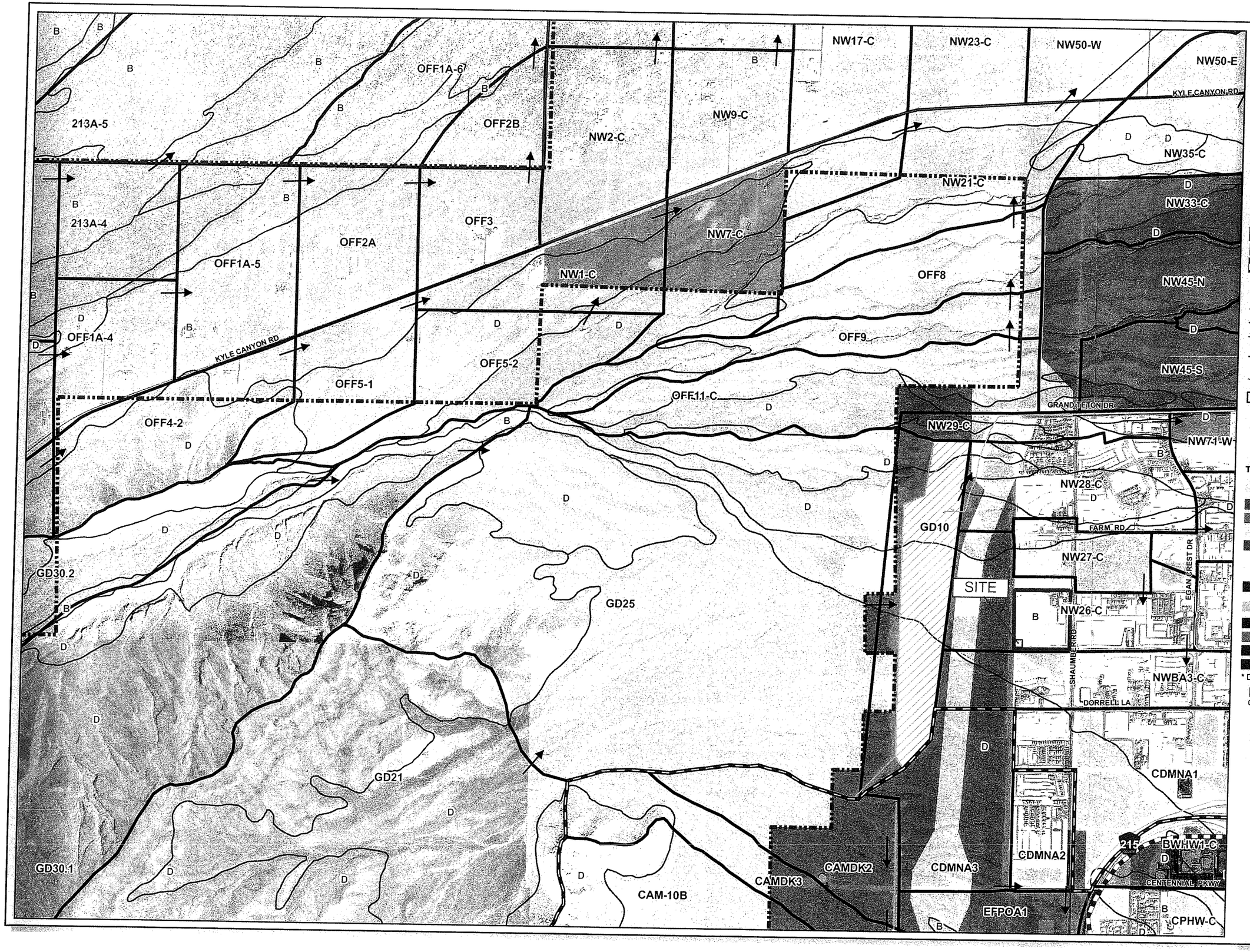

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FIGURE H-12
HYDROLOGIC SUMMARY

LEGEND

- Ultimate Development Boundary
- ID Watershed Boundary
- Subbasin Boundary
- Drought Ordinance Boundary
- Flow Arrows

Flood Control Facilities

- Existing Facilities
- Category A Proposed Facilities
- Category B Proposed Facilities
- Category A Remove & Replace/ Parallel Facilities
- Category B Remove & Replace/ Parallel Facilities

Type Hydrologic Soil Groups

- A Low Runoff Potential
- B Moderately Low Runoff Potential
- C Moderately High Runoff Potential
- D High Runoff Potential/Rock Outcrops

Typical Land Use

1	Undeveloped Land, Open Desert
2	Parks, Golf Courses
3	Rural
4 / 14*	Low Density Residential
5 / 15*	Medium Density Residential
6 / 16*	High Density Residential
7 / 17*	Public Facility, Residential
8 / 18*	Very High Density Residential
9 / 19*	Commerical, Retail, Casino, High Rise Condominiums
10 / 20*	Light Industrial
11 / 21*	Heavy Industrial
12 / 22*	Schools
13	Lakes

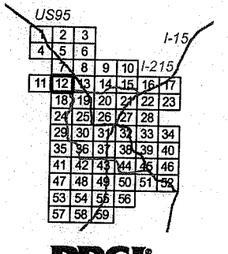
* Drought Ordinance Applied

N

0 500 1,000 2,000 3,000
Feet

Scale: 1 inch = 2,000 feet

Refer to Figure G-2 for Aerial Source(s)



PBS&J
PB