

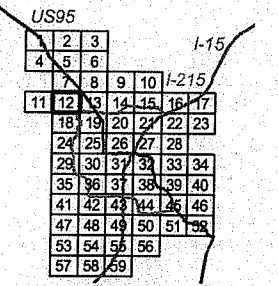
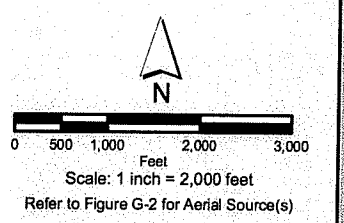
2008
LAS VEGAS VALLEY
FLOOD CONTROL
MASTER PLAN UPDATE
FIGURE F-12

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 |



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).

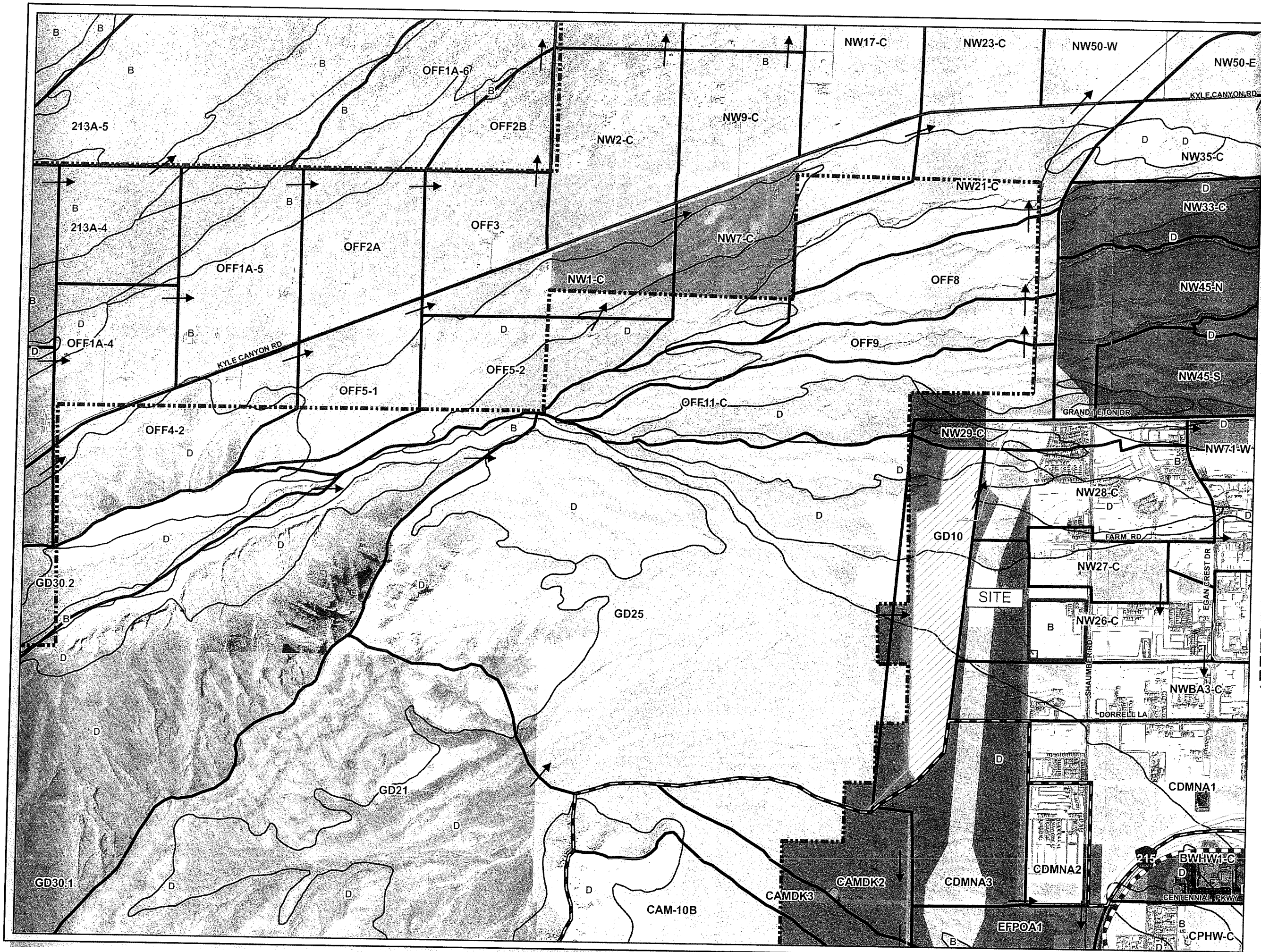


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FACILITY INVENTORY
FIGURE F - 12

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		Bottom Width..... W
Contingency Level		
Category B..... P0		Depth..... D
Master Plan..... P1		
Preliminary Design..... P2		Side Slope, H:V..... SS
Design..... P3		
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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FIGURE H-12
HYDROLOGIC SUMMARY

LEGEND

- Ultimate Development Boundary
- 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* Commercial, Retail, Casino, High Rise Condominiums
- 10 / 20* Light Industrial
- 11 / 21* Heavy Industrial
- 12 / 22* Schools
- 13 Lakes

* Drought Ordinance Applied

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

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
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