DRAWING NO.	DESCRIPTION
I-1	TITLE SHEET, LOCATION MAP
I-2	INDEX SHEET, LEGEND AND ABBREVIATIONS
I-3	CONSTRUCTION CALLOUTS, NOTES AND MATERIAL ZONES
I-4	SPILLWAY RATING CURVE & AREA-CAPACITY CURVE
I-5	REVEGETATION PLAN
G-1	GENERAL PLAN AND GRADING PLAN KEY MAP
G-2	SURVEY MAP-CACTUS BASIN NO. 3A AND HABITAT RESTORATION AREA
G-3	SURVEY MAP-SOUTH HALF OF BASIN NO. 3
G-4	SURVEY MAP-NORTH HALF OF BASIN NO. 3
G-5	SURVEY MAP-SPILLWAY AND 96" RCP BASIN OUTLET DRAIN
C-1	GENERAL GRADING PLAN & GEOTECHNICAL BORRING LOCATIONS
C-2	GRADING PLAN-BASIN NO. 3A AND HABITAT RESTORATION AREA
C-3	GRADING PLAN-SOUTH HALF OF BASIN NO. 3
C-4	GRADING PLAN-NORTH HALF OF BASIN NO. 3
C-5	GRADING PLAN-SPILLWAY AND 96" RCP BASIN OUTLET DRAIN
C-6	OUTLET SPILLWAY UNDERDRAIN PLAN, PROFILE & SECTIONS
C-7	OUTLET SPILLWAY UNDERDRAIN DETAILS & SECTIONS
C-8	PLAN, PROFILE & DETAILS-WEST EARTHEN SWALE
C-9	PLAN, PROFILE & DETAILS-EAST EARTHEN SWALE - STA.100+15.62 TO STA.108+00.00
C-10	PLAN, PROFILE & DETAILS-EAST EARTHEN SWALE - STA.108+00.00 TO STA.114+83.34
C-11	PLAN, PROFILE & DETAILS-CONCRETED SWALE
C-12	TYPICAL DAM & CIVIL SECTIONS
P-1	DAM CREST PROFILE-STA.82+48.99 TO STA. 94+00.00
P-2	DAM CREST PROFILE-STA. 94+00.00 TO STA.106+00.00
P-3	DAM CREST PROFILE-STA.106+00.00 TO STA.117+94.94
P-4	BASIN NO. 3A CREST PROFILE-STA. 93+37.11 TO STA.106+50.00
P-5	BASIN NO. 3A CREST PROFILE-STA.106+50.00 TO STA.119+59.16
X-1	DAM SECTIONS - STA. 82+65.98 AND STA. 83+00.00
X-2	DAM SECTIONS - STA. 83+38.54 AND STA. 83+74.04
X-3	DAM SECTIONS - STA. 84+00.00 AND STA. 85+00.00
X-4	DAM SECTIONS - STA. 86+00.00 AND STA. 87+00.00
X-5	DAM SECTIONS - STA. 88+00.00 AND STA. 89+00.00
X-6	DAM SECTIONS - STA. 90+00.00 AND STA. 90+24.04
X-7	DAM SECTIONS - STA. 91+00.00 AND STA. 92+00.00
X-8	DAM SECTIONS - STA. 93+00.00 AND STA. 93+87.93
X-9	DAM SECTIONS - STA. 94+04.93 AND STA. 95+00.00
X-10	DAM SECTIONS - STA. 96+00.00 AND STA. 97+30.83
X-11	DAM SECTIONS - STA. 99+00.00 AND STA. 100+00.00
X-12	DAM SECTIONS - STA. 100+00.00 AND STA. 101+25.00
X-13	DAM SECTIONS - STA. 102+95.25 AND STA. 105+00.00
X-14	DAM SECTIONS - STA. 106+00.00 AND STA. 107+00.00
X-15	DAM SECTIONS - STA. 108+00.00 AND STA. 109+00.00
X-16	DAM SECTIONS - STA. 110+00.00 AND STA. 111+00.00
X-17	DAM SECTIONS - STA. 112+00.00 AND STA. 113+00.00
X-18	DAM SECTIONS - STA. 114+00.00 AND STA. 114+83.34
X-19	DAM SECTIONS - STA. 115+00.00 AND STA. 116+00.00
X-20	DAM SECTIONS - STA. 117+00.00 AND STA. 117+40.94
X-21	BASIN NO. 3A SECTIONS - STA. 93+37.11 AND STA. 94+00.00
X-22	BASIN NO. 3A SECTIONS - STA. 95+00.00 AND STA. 96+00.00
X-23	BASIN NO. 3A SECTIONS - STA. 97+31.42 AND STA. 99+00.00
X-24	BASIN NO. 3A SECTIONS - STA. 99+00.00 AND STA. 100+00.00
X-25	BASIN NO. 3A SECTIONS - STA. 101+25.00 AND STA. 102+00.00
X-26	BASIN NO. 3A SECTIONS - STA. 103+00.00 AND STA. 104+00.00
X-27	BASIN NO. 3A SECTIONS - STA. 105+00.00 AND STA. 106+00.00
X-28	BASIN NO. 3A SECTIONS - STA. 106+09.04 AND STA. 107+00.00
X-29	BASIN NO. 3A SECTIONS - STA. 108+00.00 AND STA. 109+00.00
X-30	BASIN NO. 3A SECTIONS - STA. 110+00.00 AND STA. 111+00.00
X-31	BASIN NO. 3A SECTIONS - STA. 112+00.00 AND STA. 113+00.00
X-32	BASIN NO. 3A SECTIONS - STA. 114+00.00 AND STA. 115+00.00
X-33	BASIN NO. 3A SECTIONS - STA. 116+00.00 AND STA. 117+00.00
X-34	BASIN NO. 3A SECTIONS - STA. 118+00.00 AND STA. 119+59.16
S-1	TYPICAL STRUCTURAL NOTES & DETAILS
S-2	96" RCP OUTLET BASIN DRAIN PROFILE STA. 9+01.80 TO STA. 10+98.00
S-3	96" RCP OUTLET BASIN DRAIN STRUCTURAL DETAILS
S-4	96" RCP OUTLET BASIN DRAIN ENCASEMENT & DETAILS
S-5	OUTLET SPILLWAY STRUCTURAL SECTIONS & DETAILS
S-6	TYPICAL SPILLWAY INVERT & WALLS, SECTIONS & DETAILS
S-7	SPILLWAY ACCESS LADDER DETAILS
S-8	HEADWALL AND WINGWALL STRUCTURAL DETAILS - CALTRANS STD. D90A
S-9	HEADWALL AND WINGWALL STRUCTURAL DETAILS - CALTRANS STD. D90B
S-10	SLOPED PROTECTION BARRIER - APWA STD. PLAN NO. 360
S-11	PIPE HEADWALL - CALTRANS STD. D89
S-12	DRAINAGE INLETS - CALTRANS STD. D73
S-13	CONCRETE COLLAR - APWA STD. SP 380-3 & HEADWALL WING TYPE - S.B.C. STD. 209
SD-1	36" RCP INLET TO HABITAT RESTORATION AREA
SD-2	24" RCP INLET TO BASIN NO. 3
SD-3	30" RCP INLET TO BASIN NO. 3
SD-4	54" RCP INLET TO BASIN NO. 3
SD-5	54" RCP INLET ENCASEMENT SECTIONS AND DETAILS
SD-6	2-120" RCPs INLETS PLANS, PROFILE AND DETAILS
SD-7	2-120" RCPs ENCASEMENT SECTIONS AND DETAILS
B-1	CACTUS BASIN NO. 3 BORROW PIT
FCD-1	FENCE DRAWING-SPECIAL DRAWING. I
FCD-2	FENCE DRAWING-SPECIAL DRAWING. II

LEGEND OF MAP SYMBOLS FOR GRADING PLANS

- CENTERLINE BERM/ROADWAY/OTHER
- CHAIN LINK FENCE (PER SHT. FCD-2)
- CONSTRUCTION LIMITS
- DAM AXIS
- DIRT ROAD
- EXISTING GROUND
- FLOWLINE
- INTERCEPTOR DITCH PER
- MATCH LINE
- PAVED ROAD
- POWER POLE
- PRINCIPAL SURVEY CONTROL POINT
- R/W OR EASMENT LINE
- REMOVE EXISTING FENCING
- TOE OF SLOPE, TOP OF SLOPE, LIMIT OF GRADING
- TREE OR BUSH
- TYPE "C" AC BERM OR DOWNDRAIN
- UNPAVED ROAD
- PROPOSED MAJOR CONTOUR LINES
- PROPOSED MINOR CONTOUR LINES
- PROPOSED RIPRAP
- PROPOSED CONCRETE
- COMPACTED SOIL
- GROUTED STONE

STANDARD PLANS (SPECIAL PROVISIONS, APPENDIX A)

DRAWING NO.	DESCRIPTION
APWA	
SP 360-0	SLOPE PROTECTION BARRIER
SP 380-3	CONCRETE COLLAR
SP 635-2	STEEL STEP
CALTRANS	
D90A	PIPE CULVERT HEADWALLS, ENDWALLS & WINGWALLS
D90B	PIPE CULVERT HEADWALLS, ENDWALLS & WINGWALLS
A62D	EXCAVATION AND BACKFILL-CONCRETE PIPE CULVERTS
D73	DRAINAGE INLET DETAILS
D89	PIPE 'L' HEADWALL
SAN BERNARDINO COUNTY	
STD. 128	20' CONCRETE DRIVEWAY
STD. 209	HEADWALL WING-TYPE
RIVERSIDE COUNTY	
M816(MODIFIED)	CONCRETE BULKHEAD

SPECIAL PLANS (SPECIAL PROVISIONS, APPENDIX B)

1. SPEC. DWG. I "SPECIAL BASIN GRADING REQUIREMENTS"
2. SPEC. DWG. VI "LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL"
3. "PROJECT SIGN"

ABBREVIATIONS

ABC	AGGREGATE BASE COURSE
AC	ASPHALT CONCRETE
APPROX	APPROXIMATE
AVE	AVENUE
BC	BEGIN CURVE
BHH	BECKER HAMMER TEST HOLE
BVC	BEGIN VERTICAL CURVE
CDF	CONTROL DENSITY FILL
CMP	CORREGATED METAL PIPE
CHAN	CHANNEL
CONC	CONCRETE
C	CENTERLINE
CJ	CONSTRUCTION JOINT
CL	CONTROL LINE
DDG (20')	DOUBLE DRIVE GATE (20' CLEAR OPENING)
DIA	DIAMETER
DS	DOWNSTREAM
E	EAST, EASTING
EC	END CURVE
EL, ELEV	ELEVATION
E'LY	EASTERLY
EVC	END VERTICAL CURVE
EW	EAST WALL
EX, EXIST	EXISTING
FES	FLARED END SECTION
FB	FREEBOARD
FG	FINISH GRADE
FL	FLOW LINE
GA	GAUGE
GR	GRADE
GB	GRADE BREAK
H	HEIGHT
HP	HIGH POINT
HT	HEIGHT
IE	INVERT ELEVATION
INV	INVERT
L	LENGTH
LAT	LATERAL
LOL	LAYOUT LINE
LONG	LONGITUDINAL
LP	LOW POINT
LT	LEFT OF (OFFSET FROM BASE LINE)
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH, NORTHING
NE	NORTHEAST
NW	NORTHWEST
OC	ON CENTER
OG	ORIGINAL GRADE
PPVC	PERFORATED PVC PIPE
PROP	PROPOSED
PIP	PROTECT IN PLACE
R	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT OF (OFFSET FROM BASE LINE)
ROW, R/W	RIGHT OF WAY
RSP	ROCK SLOPE PROTECTION
S	SLOPE
SE	SOUTHEAST
SH	SHEET
SBCFCD	SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT
SPEC	SPECIFICATION
SIM	SIMILAR
SL	STATION LINE
SP	STANDARD PLAN (CALTRANS, 1992)
SRMP	SPIRAL RIB METAL PIPE
STA	STATION
SW	SOUTHWEST
T	TANGENT
TCE	TEMPORARY CONSTRUCTION EASEMENT
TP	TEST PIT
TRANS	TRANSITION
TW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
US	UPSTREAM
VAR	VARIES
VPI	VERTICAL POINT OF INTERSECTION
W	WIDTH, WEST
W/	WITH
W'LY	WESTERLY
WS	WATER SURFACE
WTG	WALK THROUGH GATE
WW	WEST WALL
YR	YEAR

REGISTERED PROFESSIONAL ENGINEER JAMES PATRICK BORCUK No. 41807 Exp. 3/31/08 CIVIL STATE OF CALIFORNIA

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT 1939 CALIFORNIA

REVISIONS			
MARK	DATE	DESCRIPTION	BY:

SUBMITTED BY:
CHIEF, ENGINEERING DIVISION DATE
RECOMMENDED BY:
ASSIST. FLOOD CONTROL ENGINEER DATE
APPROVED BY:
FLOOD CONTROL ENGINEER DATE

PROJ. ENGR.	DES. BY:	REV'D BY:	DRAWN BY:
T.B.	S.F.B./D.J.N.	J.B.	S.F.B./D.J.N.

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT

FONTANA-RIALTO DRAINAGE SYSTEM

CACTUS BASIN NO. 3

INDEX SHEET, LEGEND AND ABBREVIATIONS

DATE JULY. , 2007
SCALE AS SHOWN
FILE NO. 2-104-
SHEET NO. I-2