## LEGEND

- EON2 — SUBBASIN NAME
- ON2D — PRORATED SUBBASIN NAME
- PRORATED SUBBASIN BOUNDARY
- SUBBASIN BOUNDARY
- CP1 — CONCENTRATION POINT
- FLOW DIRECTION
- 12——12 — CROSS SECTION
- EXISTING STORM DRAIN

NORTH

SCALE 60 0 60 120 FEET

| DEVELOPED CONDITIONS SUBBASIN FLOW RATE SUMMARY | | | |
|---|---|---|---|
| Subbasin ID | Area (acres) | $Q_{100}$ (cfs) | $Q_{10}$ (cfs) |
| D1 | 6.8 | 13 | 5 |

* Flow rate referenced from CLV Central Neighborhood Flood Control Master Plan

| ULTIMATE CONDITION 100-YR PRORATED FLOW SUMMARY | | | |
|---|---|---|---|
| Ultimate | | | |
| Subbasin | $Q_{100}$ (cfs) | Area (acres) | cfs/acre |
| D1 | 13 | 6.8 | 1.91 |
| Ultimate Prorated Basins | | | |
| Subbasin | $Q_{100}$ (cfs) | Area (acres) | cfs/acre |
| A | 2 | 1.10 | 1.91 |
| B | 4 | 2.10 | 1.91 |
| C | < 0.5 | 0.06 | 1.91 |
| D | 1 | 0.40 | 1.91 |
| E | 1 | 0.40 | 1.91 |
| F | 3 | 1.60 | 1.91 |
| G | 2 | 0.86 | 1.91 |

| 100-YEAR STREET/ONSITE FLOW CHARACTERISTICS ULTIMATE CONDITIONS | | | | | | |
|---|---|---|---|---|---|---|
| Location | Slope (%) | $Q_{100}$ (cfs) | Depth (ft) | Velocity (ft/s) | D*V | Note |
| Cross Section 1-1 | 1.00 | 1 | 0.41 | 1.51 | N/A | BMP Swale |
| Cross Section 2-2 | 1.00 | 3 | 0.61 | 2.00 | N/A | BMP Swale |
| Cross Section 3-3 | 1.00 | 2 | 0.53 | 1.81 | N/A | BMP Swale |
| Cross Section 4-4 | 0.47 | 2 | 0.32 | 1.29 | 0.4 | |
| Cross Section 5-5 | 0.67 | 3 | 0.36 | 1.79 | 0.6 | |
| Cross Section 6-6 | 1.00 | 0.5 | 0.24 | 1.41 | N/A | |
| Cross Section 7-7 | 0.40 | 54 | 0.71 | 2.54 | 1.8 | |

## 100-YEAR FLOOD PROTECTION FACILITIES

| LOCATION | Ultimate Tributary Subbasins | $Q_{100}$ ULT (cfs) | FACILITY |
|---|---|---|---|
| 1 | A (2 CFS) | 2 | NDOT TYPE 2 SINGLE GRATE W/ 15" SD |
| 2 | B (4 CFS) | 4 | NDOT TYPE 2 SINGLE GRATE W/ 15" SD |
| 3 | C (<0.5 CFS) | < 0.5 | 12" SQUARE CATCH BASIN SINGLE GRATE W/ 15" SD |
| 4 | D (1 CFS) | 1 | NDOT TYPE 2 SINGLE GRATE W/ 18" SD |
| 5 | E (1 CFS) | 1 | 12" SQUARE CATCH BASIN SINGLE GRATE W/ 15" SD |
| 6 | F (3 CFS) | 3 | NDOT TYPE 2 SINGLE GRATE W/ 18" SD |
| 7 | G (2 CFS) | 2 | NDOT TYPE 2 SINGLE GRATE W/ 18" SD |
| 8 | A (2) + B (4) + C (0.5) + D (1) | 7.5 | 18" SD |
| 9 | A (2) + B (4) + C (0.5) + D (1) + E (1) + F (3) | 11.5 | 18" SD |

| REV | DATE | DESCRIPTION | DATE | AGEN APP | DATE | GCW APP | DATE: |
|---|---|---|---|---|---|---|---|

% COMPLETE

PROJECT NO. 123456

DESIGN:
DRAWN:
CHECK:
PLOT DATE: 06-12-17
PLOT TIME: 10:12:05

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Michelle Castell

JW ZUNINO & ASSOCIATES

WASHINGTON LAS VEGAS WASH PARK

FIGURE 6
PROPOSED CONDITIONS DRAINAGE MAP

DRAWING
FIG6
1 OF 1 SHTS