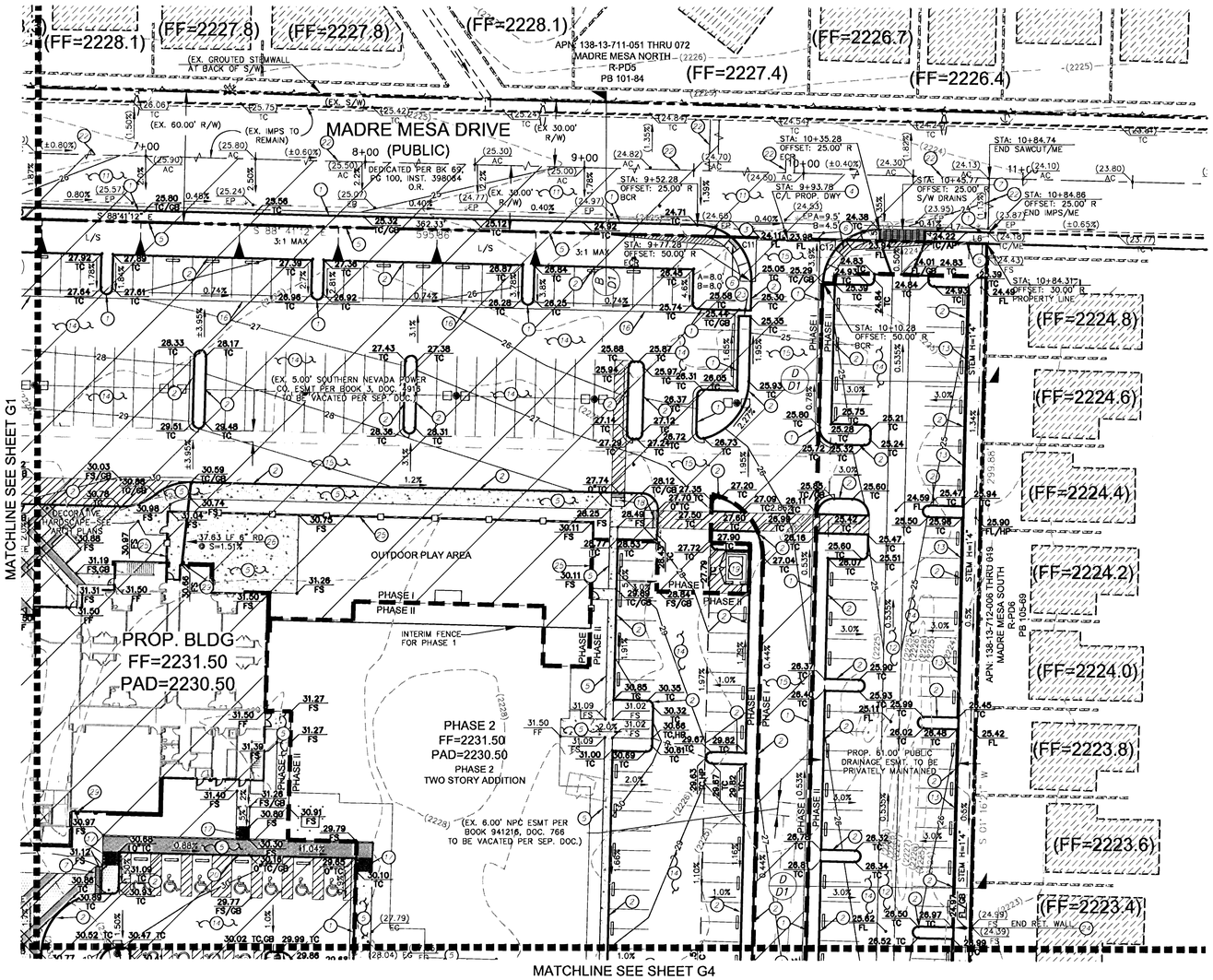
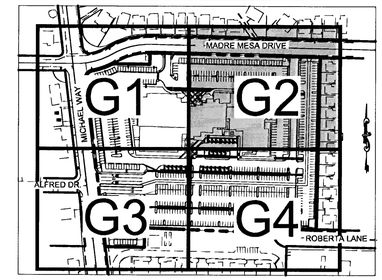
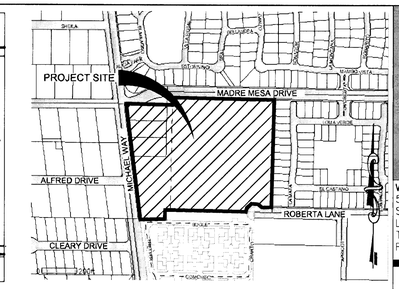



## KEY MAP
N.T.S.




## VICINITY MAP
N.T.S.


WALKER ENGINEERING, LLC
5765 S. RAINBOW BLVD.
SUITE 101
LAS VEGAS, NV 89118
TEL: 702.873.5197
FAX: 702.873.5346


| | CONSTRUCTION NOTES |
|---|---|
| NO | ITEM |
| 1 | CONSTRUCT "L" TYPE CURB AND GUTTER PER STD DWG NO. 216. |
| 2 | CONSTRUCT "A" TYPE CURB PER STD. DWG. NO. 219. |
| 3 | CONSTRUCT 8' CONCRETE CROSS GUTTER PER STD DWG NO 228 |
| 4 | CONSTRUCT COMMERCIAL DRIVEWAY PER STD DWG NO 222A & 225 |
| 5 | CONSTRUCT 4" SIDEWALK PER STD DWG NO. 234. |
| 6 | CONSTRUCT ADA RAMPS WITH ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER STD DWG NO 235, CASE 1 |
| 7 | CONSTRUCT 2' WIDE SIDEWALK UNDERDRAIN PER STD DWG NO. 236 |
| 8 | TRANSITION FROM 0" TO 6" CURB IN 10 FEET |
| 9 | TYPE I GRAVEL |
| 10 | TYPE II GRAVEL |
| 11 | CONSTRUCT 3.5" MIN AC OVER 4" TYPE II AB OVER 6.5" TYPE I AB |
| 12 | CONSTRUCT 8' WIDE CROSS GUTTER PER DETAIL 7 ON SHEET D1 |
| 13 | CONSTRUCT 1'4" SOLID GROUTED STEMWALL WITH TOP CAP & TOP BLOCK SMOOTH FACE WITH REMAINDER BLOCKS SPLIT FACE PER SEP. PERMIT BY OTHERS – SEE ARCHITECTURAL PLANS FOR DETAILS |
| 14 | CONSTRUCT 2" MIN AC OVER 8" TYPE II AGG. BASE PER SOILS REPORT BY JA CESARE. SEE DETAIL 1 ON SHEET D1 |
| 15 | CONSTRUCT 2.5" MIN AC OVER 9" TYPE II AGG. BASE PER SOILS REPORT BY JA CESARE. SEE DETAIL 2 ON SHEET D1 |
| 16 | CONSTRUCT 3' WIDE VALLEY GUTTER PER DETAIL 3 ON SHEET D1 |
| 17 | CONSTRUCT ON-SITE RAMP PER DETAIL 4 ON SHEET D1. |
| 18 | CONSTRUCT ON-SITE RAMP PER DETAIL 5 ON SHEET D1. |
| 19 | CONSTRUCT TRASH ENCLOSURE PER ARCHITECTURAL PLAN (BY OTHERS) |
| 20 | CONSTRUCT 0" CURB |
| 21 | CONSTRUCT HALF OF CUL-DE-SAC PER STD DWG NO. 212 |
| 22 | SAWCUT AND MATCH EXISTING PAVEMENT. |
| 23 | CONSTRUCT 2' WIDE CONCRETE FLUME PER DETAIL 6 ON SHEET D1 |
| 24 | CONSTRUCT RETAINING WALL (H MAX=3'4") PER SEP. PERMIT BY OTHERS |
| 25 | CONSTRUCT SCREEN WALL PER SEP. PERMIT BY OTHERS |
| 26 | INSTALL 6" PVC ROOF DRAIN PIPE. TRANSITION TO 3"x12 1/2" RECTANGULAR PIPE THROUGH CURB. ALHAMBRA A-480 ADAPTOR OR EQUAL |
| 27 | INSTALL 4" PVC ROOF DRAIN PIPE. TRANSITION TO 3"x5" RECTANGULAR PIPE THROUGH CURB. ALHAMBRA A-480 ADAPTOR OR EQUAL. |
| 28 | INSTALL 3" PVC ROOF DRAIN PIPE THROUGH CURB |
| 29 | ROOF DRAIN TO SPILL TO GRADE-SEE ARCH. PLANS FOR SPASH BLOCK DETAILS. |

| | STORM DRAIN CONSTRUCTION NOTES |
|---|---|
| NO | ITEM |
| 1 | INSTALL 24" BEEHIVE INLET WITH CONCRETE APRON PER CC STD. DWG. NO. 416. SEE DETAIL 1 ON SHEET D2. |
| 2 | INSTALL 18" CLASS III RCP STORM DRAIN PIPE |
| 3 | INSTALL 18" RCP END SECTION PER NDOT DETAIL R-2.3.1. SEE DETAIL 2 ON SHEET D2. |
| 4 | INSTALL CLEAN OUT |

### DRAINAGE FACILITIES BONDABLE QUANTITIES LIST

| ITEM | UNIT | PHASE I | PHASE II |
|---|---|---|---|
| 24" BEEHIVE INLET | EA | 1 | – |
| 18" STORM DRAIN | EA | 294 | – |
| 2' S/W DRAINS | EA | 7 | – |
| "L" CURB | LF | 448 | 158 |
| "A" CURB | LF | 453 | 1373 |
| 8' CROSS GUTTER | SF | 4276 | 3791 |
| 1'4" STEM WALL | LF | 403 | 456 |
| 4" SIDEWALK | SF | 858 | – |

### EARTHWORK QUANTITIES

*NOTE: THESE QUANTITIES ARE APPROXIMATE AND ARE RAW VOLUMES ONLY. OVEREXCAVATION SUBSIDENCE, SHRINKAGE, & BULKING FACTORS ARE NOT TAKEN INTO ACCOUNT.

CUT = 15,418 CY
FILL = 15,609 CY

*NOTE: THESE QUANTITIES ARE FOR ULTIMATE BUILD OUT.

### SIGHT VISIBILITY ZONES NOTE

NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF CURB.

### NOTE

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

### NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT. CLV# DS4380.

TREASEA WOLF, P.E. No. 17879 — DATE 2-16-11

### FLOODZONE

THIS PROJECT IS LOCATED IN (NON-SHADED) FLOOD ZONE X PER FEMA FLOOD INSURANCE MAP NUMBER 32003C2155E, REVISED TO REFLECT LOMR DATED DECEMBER 31, 2003. FLOOD ZONE X IS DEFINED AS AN AREA BEING OUTSIDE THE 0.2% ANNUAL CHANCE FLOODING; OR AN AREA OF 1% ANNUAL CHANCE FLOODING WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE.

### BENCHMARK

THE ELEVATION DATA SHOWN HEREON ARE U.S. SURVEY FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, CLARK COUNTY VERTICAL CONTROL v.2003, BASED UPON BENCHMARK No. 75, STATION "5LV00 13S6" BEING A CITY OF LAS VEGAS PIN AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF MICHEAL WAY AND CLEARLY COURT, NEAR THE PT OF MICHAEL WAY.

ELEVATION 679.849 METERS – PUBLISHED

ELEVATION 2,230.47 U.S. SURVEY FEET – COMPUTED

### LEGAL DESCRIPTION

THAT PORTION OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 13, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA.

### BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS RECORD OF SURVEY IS NORTH 06° 42' 12" WEST AS DEFINED BY THE MONUMENTS SHOWN HEREON, BEING THE NORTH-SOUTH CENTER SECTION LINE OF SECTION 13, TOWNSHIP 20 SOUTH, RANGE 60 EAST, MOUNT DIABLO MERIDIAN, CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, ESTABLISHED BY STRAIGHT LINE INTERSECTION BETWEEN OPPOSING ONE-QUARTER CORNERS PER FILE 02, PAGE 23 OF SURVEYS, SAME BEING THE CONTROL LINE OF MICHAEL WAY AS DERIVED BY FILE 02, PAGE 23 OF SURVEYS.

### CURVE & LINE DATA

| PROPERTY LINE LINE TABLE | | |
|---|---|---|
| LINE | LENGTH | BEARING |
| L1 | 39.63 | S01°27'20"W |
| L2 | 52.99 | S87°37'05"E |

| BACK OF CURB LINE TABLE | | |
|---|---|---|
| LINE | LENGTH | BEARING |
| L3 | 26.99 | N88°36'13"W |
| L4 | 5.00 | S01°14'26"W |
| L5 | 5.00 | S01°28'18"W |
| L6 | 9.99 | S88°44'13"E |
| L7 | 18.61 | S88°41'12"E |
| L8 | 5.01 | S70°21'54"E |
| L9 | 5.00 | S70°21'54"E |
| L10 | 5.00 | S01°18'48"W |
| L11 | 5.00 | S01°18'48"W |
| L12 | 10.00 | S86°55'51"E |
| L13 | 18.32 | S87°37'05"E |
| L14 | 24.05 | S87°37'05"E |
| L15 | 10.00 | N06°53'37"W |

| PROPERTY LINE CURVE TABLE | | | | |
|---|---|---|---|---|
| CURVE | LENGTH | RADIUS | DELTA | TANGENT |
| C1 | 76.43 | 280.00 | 15°38'22" | 38.45 |
| C2 | 37.49 | 25.00 | 85°55'09" | 23.28 |
| C3 | 115.12 | 45.50 | 144°37'54" | 144.15 |
| C4 | 13.91 | 14.50 | 54°97'54" | 7.54 |

| BACK OF CURB CURVE TABLE | | | | |
|---|---|---|---|---|
| CURVE | LENGTH | RADIUS | DELTA | TANGENT |
| C5 | 42.77 | 25.00 | 98°01'00" | 28.77 |
| C6 | 35.77 | 25.00 | 81°99'00" | 21.73 |
| C7 | 44.99 | 30.00 | 85°55'09" | 27.94 |
| C8 | 73.29 | 275.00 | 15°16'11" | 36.86 |
| C9 | 39.23 | 25.00 | 89°54'17" | 24.98 |
| C10 | 39.27 | 25.00 | 90°00'00" | 25.00 |
| C11 | 39.27 | 25.00 | 90°00'00" | 25.00 |
| C12 | 39.25 | 25.00 | 89°57'33" | 24.98 |
| C13 | 18.71 | 19.50 | 54°57'54" | 10.14 |
| C14 | 0.05 | 40.50 | 0°04'25" | 0.03 |
| C15 | 25.01 | 40.50 | 35°23'14" | 12.92 |
| C16 | 87.27 | 40.50 | 123°27'51" | 75.32 |

Call before you dig. Avoid cutting underground utility lines. It's scarry. Call 811 or 1-800-227-2600 and CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-7544

Call before you UnderGround 1-702-455-7511 CLARK COUNTY TRAFFIC OPERATIONS and 1-702-229-6611 LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

Avoid overhead power line contact. It's scarry. CALL BEFORE YOU OVERHEAD 1-702-593-6111

### ENGINEER'S NOTES

1. ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY JA CESARE DATED OCTOBER 13, 2009, PROJECT NO. 09.1180, ADDENDUM DATED JUNE 22, 2010 & UPDATE DATED FEBRUARY 16, 2011.

2. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION. (IF APPLICABLE)

3. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).

4. SEE ARCHITECTS PLANS FOR ALL HANDICAP ACCESSIBILITY INFORMATION, RAMP DETAILS, TRANSFORMERS, AND TRASH ENCLOSURE DETAILS. VERIFY BUILDING LAYOUTS AND DIMENSIONS WITH ARCHITECTURAL PLANS.

5. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION.

6. SEE LANDSCAPE PLANS FOR LANDSCAPING AND ONSITE IRRIGATION.

7. THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.

8. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.

9. ALL MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

### LEGEND

PROPERTY LINE
STREET CENTERLINE
PROPOSED RETAINING WALL
PROPOSED BUILDING
(2260) EXISTING CONTOUR
5 PROPOSED CONTOUR
PROPOSED CURB & GUTTER
PROPOSED CURB
EXISTING CURB & GUTTER
EXISTING CURB
CONSTRUCTION NOTE
CUT FILL TRANSITION
SAWCUT LIMITS
PHASE LIMITS
AGENCY JURISDICTIONAL LIMITS
3:1 SCARP
0.40% SLOPE
FLOW LINE
EASEMENT LINE
HANDICAP PARKING
FS FINISHED SURFACE
CF CURB FACE
TC CURB BACK
EP EDGE OF PAVEMENT
TG TOP OF GRATE
30.50 TC PROPOSED GRADE
(32.27) AC EXISTING GRADE
NEW AC PAVEMENT
PHASE I

### GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 feet

CLV DRAWING NO. 107V 5608-2

REVISIONS

| DATE | REV | DESCRIPTION OF REVISION | INITIALS |
|---|---|---|---|

APPROVAL

| DATE | INITIALS |
|---|---|

# CATALYST CONSULTING COMPANY
# AGUILAS CFC CHURCH

PRECISE GRADING PLAN
SHEET 2 OF 4
PHASE II

CC HTE: 10-32602
SUBMITTAL NO. FINAL
DATE: FEBRUARY 16, 2011
WE PROJECT NO. 1167.00
AGENCY NO. CLV:40430
SHEET NO.: G2
11 OF 27 SHEETS

E:\1167_CATALYST\DWG\PRRD\WG\05-1167G1.dwg, 2/16/2011 2:19:18 PM, twolf, Adobe PDF