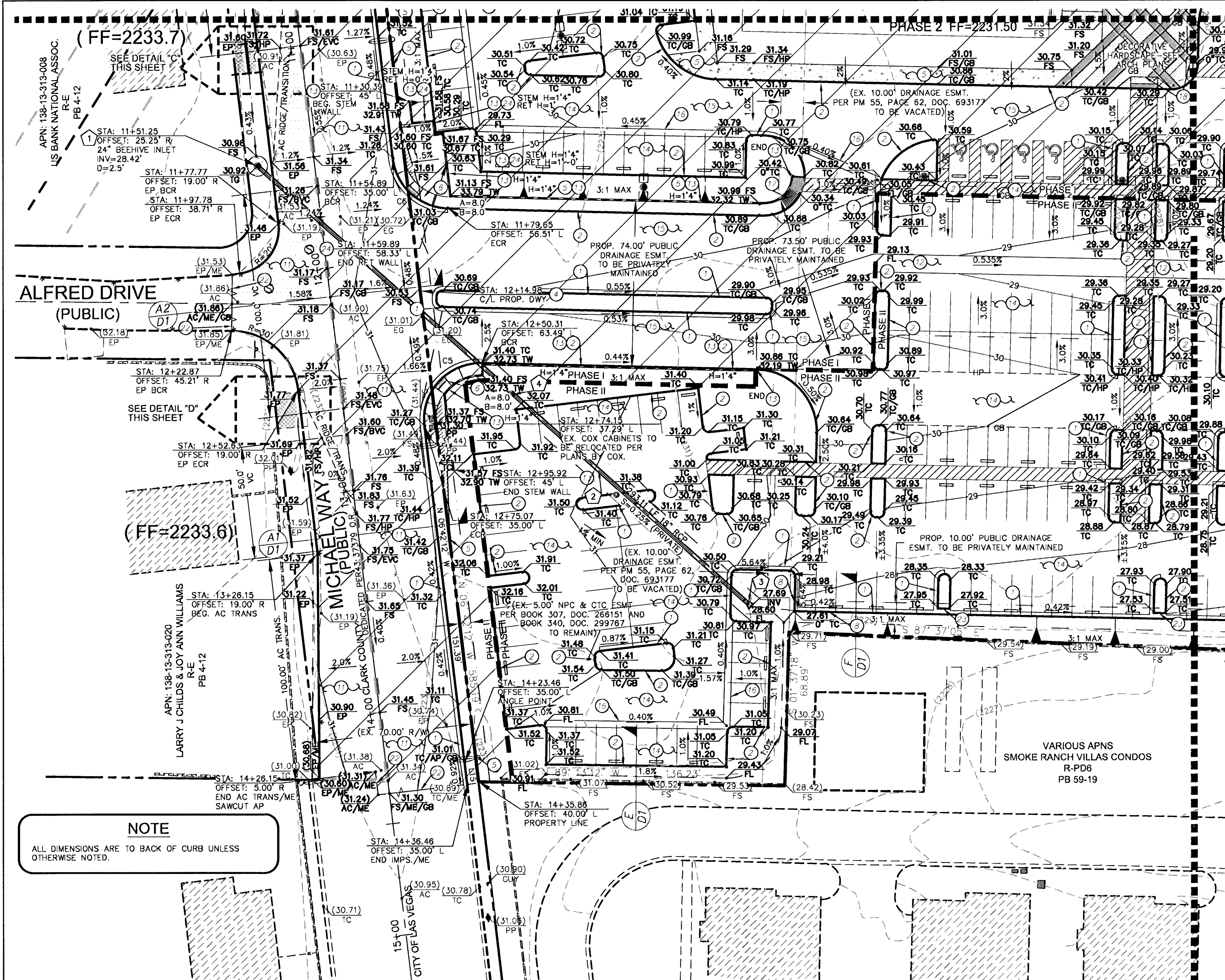




## NOTE

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

## 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.

## FLOODZONE

THIS PROJECT IS LOCATED IN (NON-SHADED) FLOOD ZONE X PER FEMA FLOOD INSURANCE MAP NUMBER 5200022155E, REVISED TO REFLECT LOWR 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 #2003, BASED UPON BENCHMARK NO. 75, STATION "SLUVOO 1358" BEING A CITY OF LAS VEGAS PIN AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF MICHAEL 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 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.

## NOTE

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

## CURVE &amp; LINE DATA

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

| LINE | LENGTH | BEARING     |
|------|--------|-------------|
| L3   | 26.99  | N88°36'13"W |
| L4   | 5.00   | S01°14'28"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  | S89°37'51"E |
| L13  | 18.32  | S87°37'05"E |
| L14  | 24.35  | S87°37'05"E |
| L15  | 10.00  | N06°53'37"W |

## EARTHWORK QUANTITIES

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

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

\*NOTE: THESE QUANTITIES ARE FOR ULTIMATE BUILD OUT.

| CURVE | LENGTH | RADIUS | DELTA      | TANGENT |
|-------|--------|--------|------------|---------|
| C1    | 78.43  | 280.00 | 15°38'22"  | 38.45   |
| C2    | 37.49  | 25.00  | 85°55'09"  | 23.28   |
| C3    | 115.12 | 43.50  | 144°57'54" | 144.15  |
| C4    | 13.91  | 14.50  | 54°57'54"  | 7.54    |

| CURVE | LENGTH | RADIUS | DELTA      | TANGENT |
|-------|--------|--------|------------|---------|
| C5    | 42.77  | 25.00  | 89°01'00"  | 28.77   |
| C6    | 35.77  | 25.00  | 81°59'00"  | 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"  | 24.96   |
| 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   |

## 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 ARCHITECT'S 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.

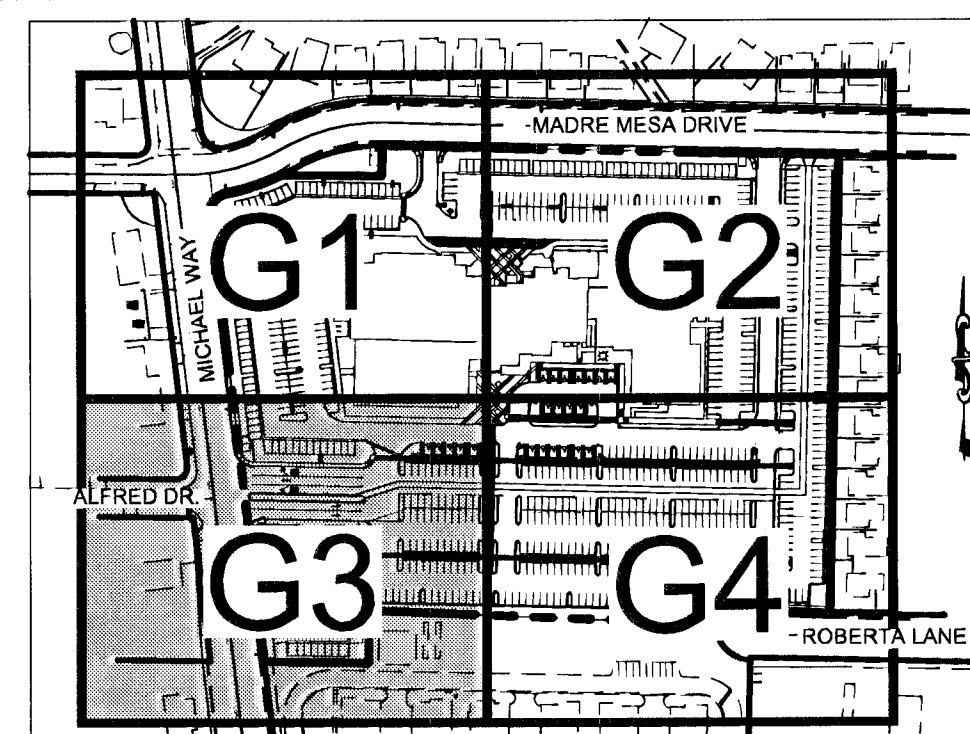
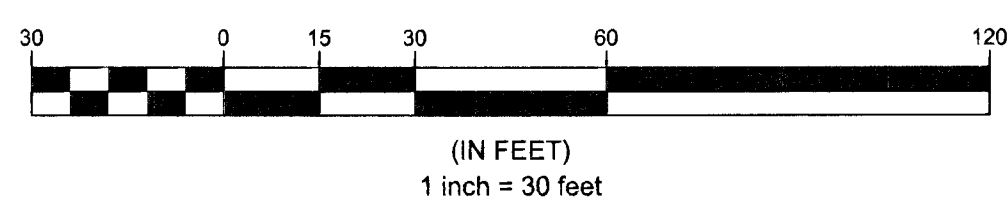
8. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.

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

## DRAINAGE FACILITIES BONDABLE QUANTITIES LIST

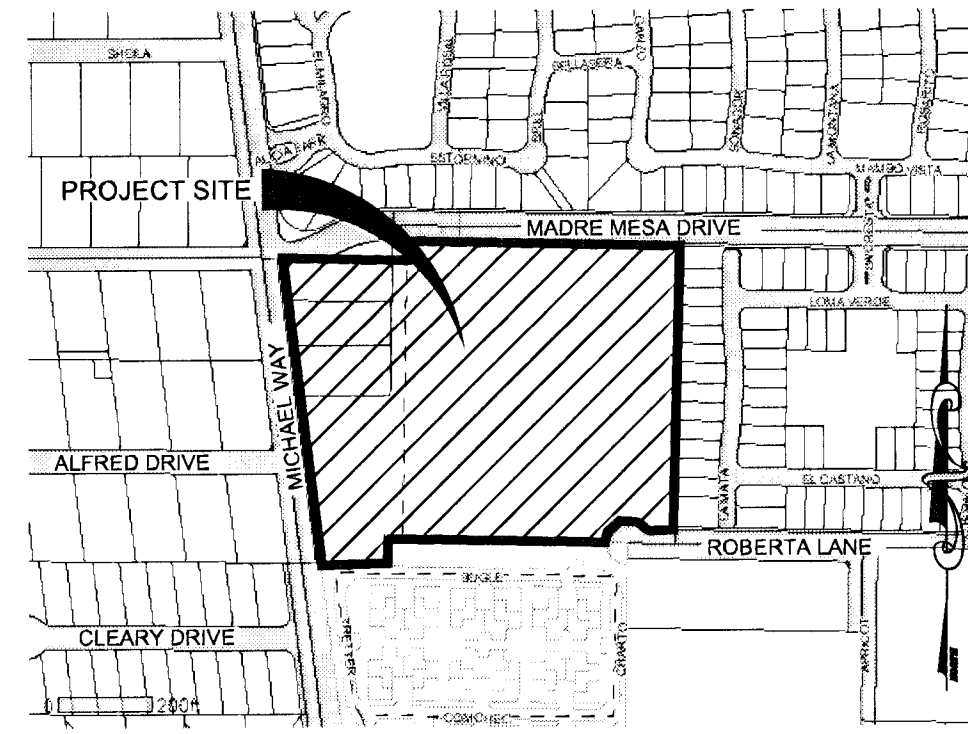
| ITEM              | UNIT | PHASE I | PHASE II |
|-------------------|------|---------|----------|
| 24" BEEHIVE INLET | EA   | 1       | -        |
| 18" STORM DRAIN   | EA   | 294     | -        |
| 2" S/W DRAINS     | EA   | 7       | -        |
| 1" CURB           | LF   | 448     | 158      |
| "A" CURB          | LF   | 453     | 1373     |
| 8" CROSS GUTTER   | SF   | 4276    | 3791     |
| 14" STEM WALL     | LF   | 403     | 456      |
| 4" SIDEWALK       | SF   | 858     | -        |

## GRAPHIC SCALE



## KEY MAP

N.T.S.



## VICINITY MAP

N.T.S.

## CONSTRUCTION NOTES

- CONSTRUCT "L" TYPE CURB AND GUTTER PER STD DWG NO. 216.
- CONSTRUCT "A" TYPE CURB PER STD. DWG. NO. 219.
- CONSTRUCT 8" CONCRETE CROSS GUTTER PER STD DWG NO 228
- CONSTRUCT COMMERCIAL DRIVEWAY PER STD DWG NO 222A & 225
- CONSTRUCT 4" SIDEWALK PER STD DWG NO. 234.
- CONSTRUCT ADA RAMPS WITH ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER STD DWG NO 235, CASE 1
- CONSTRUCT 2" WIDE SIDEWALK UNDERDRAIN PER STD DWG NO. 236
- TRANSITION FROM 0" TO 6" CURB IN 10 FEET
- TYPE I GRAVEL
- TYPE II GRAVEL
- CONSTRUCT 3.5" MIN AC OVER 4" TYPE II AB OVER 6.5" TYPE I AB
- CONSTRUCT 8" WIDE CROSS GUTTER PER DETAIL 7 ON SHEET D1
- CONSTRUCT 1.4" SOLID GROUTED STEELWALL WITH TOP CAP & TOP BLOCK SMOOTH FACE WITH REMANENT BLOCKS. PLANT & AGE ADJ. SEP.
- CONSTRUCT 2" MIN AC OVER 8" TYPE II AGG. BASE PER SOILS REPORT BY JA CESARE. SEE DETAIL 1 ON SHEET D1
- CONSTRUCT 2.5" MIN AC OVER 8" TYPE I AGG. BASE PER SOILS REPORT BY JA CESARE. SEE DETAIL 2 ON SHEET D1
- CONSTRUCT 3" WIDE VALLEY GUTTER PER DETAIL 3 ON SHEET D1
- CONSTRUCT ON-SITE RAMP PER DETAIL 4 ON SHEET D1.
- CONSTRUCT ON-SITE RAMP PER DETAIL 5 ON SHEET D1.
- CONSTRUCT TRASH ENCLOSURE PER ARCHITECTURAL PLAN (BY OTHERS)
- CONSTRUCT 0" CURB
- CONSTRUCT HALF OF CUL-DE-SAC PER STD DWG NO. 212
- SAWCUT AND MATCH EXISTING PAVEMENT.
- CONSTRUCT 2" WIDE CONCRETE FLUME PER DETAIL 6 ON SHEET D1
- CONSTRUCT RETAINING WALL (H MAX=3'4") PER SEP. PERMIT BY OTHERS
- CONSTRUCT SCREEN WALL PER SEP. PERMIT BY OTHERS
- INSTALL 6" PVC ROOF DRAIN PIPE. TRANSITION TO 3"x12 1/2" RECTANGULAR PIPE THROUGH CURB. ALHAMBRA A-480 ADAPTOR OR EQUAL
- INSTALL 4" PVC ROOF DRAIN PIPE. TRANSITION TO 3"x5" RECTANGULAR PIPE THROUGH CURB. ALHAMBRA A-480 ADAPTOR OR EQUAL.
- INSTALL 3" PVC ROOF DRAIN PIPE THROUGH CURB
- ROOF DRAIN TO SPILL TO GRADE-SEE ARCH. PLANS FOR SPASH BLOCK DETAILS.

## STORM DRAIN CONSTRUCTION NOTES

- INSTALL 24" BEEHIVE INLET WITH CONCRETE APRON PER CC STD. DWG. NO. 416. SEE DETAIL 1 ON SHEET D2.
- INSTALL 18" CLASS III RCP STORM DRAIN PIPE
- INSTALL 18" RCP END SECTION PER NDOT DETAIL R-2.31. SEE DETAIL 2 ON SHEET D2.
- INSTALL CLEAN OUT

NOTE: SEE SHEET SD1 FOR STORM DRAIN PLAN & PROFILE

## LEGEND

|                              |                  |
|------------------------------|------------------|
| PROPERTY LINE                | SCARP            |
| STREET CENTERLINE            | SLOPE            |
| PROPOSED RETAINING WALL      | FLOW LINE        |
| PROPOSED BUILDING            | EASEMENT LINE    |
| EXISTING CONTOUR             | HANDICAP PARKING |
| PROPOSED CONTOUR             | FINISHED SURFACE |
| PROPOSED CURB & GUTTER       | CURB FACE        |
| PROPOSED CURB                | CURB BACK        |
| EXISTING CURB & GUTTER       | EDGE OF PAVEMENT |
| EXISTING CURB                | TOP OF GRATE     |
| CONSTRUCTION NOTE            | PROPOSED GRADE   |
| CUT FILL TRANSITION          | EXISTING GRADE   |
| SAWCUT LIMITS                | NEW AC PAVEMENT  |
| PHASE LIMITS                 | PHASE I          |
| AGENCY JURISDICTIONAL LIMITS |                  |

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.  
TREASER WOLF, P.E. No. 17879  
DATE 3-23-11

## CLARK COUNTY DEPARTMENT OF PUBLIC WORKS

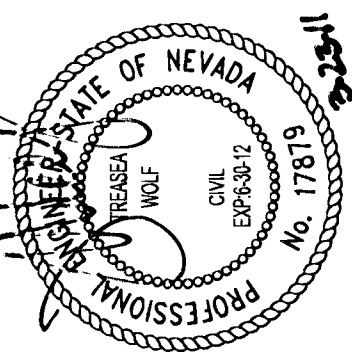
FOR PORTIONS WITHIN CLARK COUNTY ONLY  
ACCEPTANCE OF PLANS FOR FILING BY

1167.00  
CLV:40430  
SHEET NO.:

CLV DRAWING NO. 107V5608-2

W E

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



APPROVAL  
DATE  
INITIALS

REVISIONS  
DATE  
REVISION DESCRIPTION

PRECISE GRADING PLAN  
SHEET 3 OF 4  
PHASE II

CATALYST CONSULTING COMPANY  
AGUILAS CFC CHURCH

CC HTE: 10-32602  
SUBMITTAL NO. FINAL  
DATE: MARCH 22, 2011  
WE PROJECT NO.

1167.00  
CLV:40430  
SHEET NO.:

G3

12 OF 27 SHEETS

1:40430

1167.00

CLV:40430

SHEET NO.:

G3

12 OF 27 SHEETS