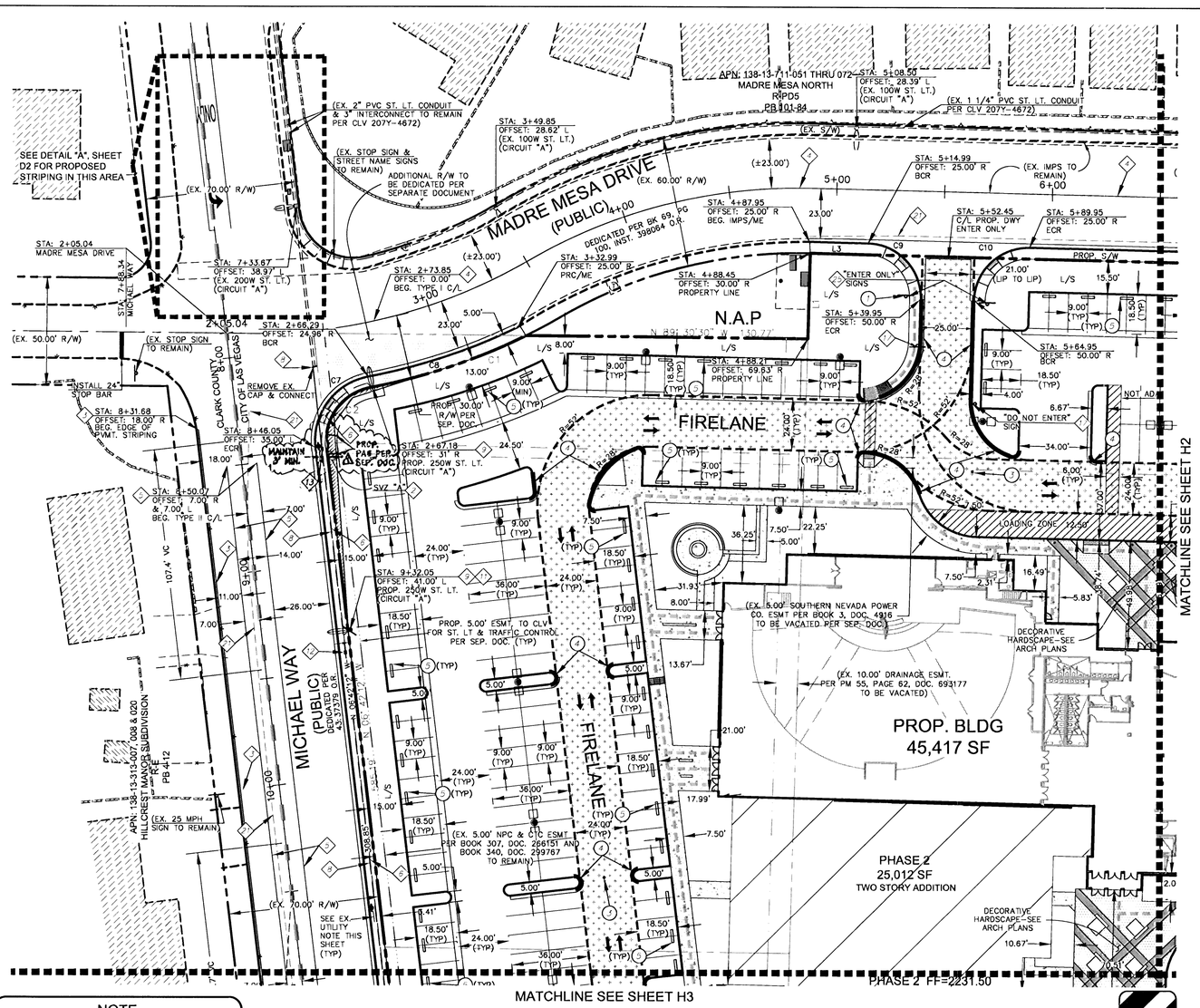
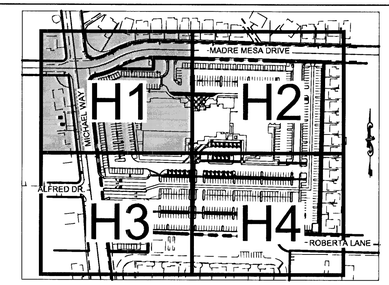
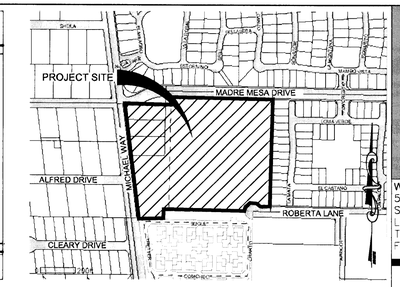




KEY MAP
N.T.S.

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 feet



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

PROFESSIONAL ENGINEER STATE OF NEVADA TREASEA WOLF No. 17869

TRAFFIC NOTES

NO	ITEM
1	INSTALL "STOP SIGN" R-1 (30")
2	SIGHT VISIBILITY ZONES, SEE H SHEETS FOR DETAILS
3	INSTALL 4" SOLID WHITE LINE 1' OFF OF PROPOSED EDGE OF PAVEMENT
4	INSTALL TYPE I CENTERLINE PER STD. DWG. 244
5	INSTALL TYPE II CENTERLINE PER STD. DWG. 244
6	INSTALL 2" PVC STREETLIGHT CONDUIT W/ (2) #4 & (1) #8 THW COPPER CONDUCTORS
7	INSTALL 1 1/4" PVC STREETLIGHT CONDUIT W/ (2) #4 & (1) #8 THW COPPER CONDUCTORS
8	INSTALL 3" PVC CONDUIT WITH A 6 PAIR PE 39#22 AWG LOCATING WIRE
9	INSTALL 250W STREET LIGHT PER USD #301.1, #314, #320 & #321
10	INSTALL 100W STREET LIGHT PER USD #311.1A, #314, #320 & #321
11	INSTALL R7-1APR (18" X 24") NO PARKING SIGNS
12	INSTALL P30 PULL BOX WITH "FIBER OPTIC" INSCRIBED ON LID
13	INSTALL 3-1/2" PULLBOX
14	INSTALL ARROW TURN SYMBOL PER USDCCA STD DWG NO. 246A.
15	INSTALL "ONLY" SYMBOL PER USDCCA STD DWG NO. 246A.
16	INSTALL MEDIAN NOSE MARKINGS PER USDCCA STD DWG NO. #218 AND #248
17	INSTALL R5-1 "DO NOT ENTER" SIGN
18	INSTALL R3-2 "NO LEFT TURN" SIGN
19	INSTALL STORAGE LANE LINE PER STD. DWG. 246
20	INSTALL PCC ISLAND CURB PER STD. DWG. 220
21	REMOVE EXISTING STRIPING
22	REMOVE EXISTING OM-3R SIGNS
23	REMOVE EXISTING END OF ROAD SIGNS
24	INSTALL 125 AMP SERVICE PEDESTAL
25	INSTALL "ENTER ONLY" T02 SIGN (PRIVATE)
26	INSTALL OM-3R SIGNS AT 25' OC
27	INSTALL 8" SOLID WHITE LINE 1' OFF OF PROPOSED EDGE OF PAVEMENT
28	INSTALL TYPE II CENTERLINE PER USDCCA STD DWG NO. #244
29	INSTALL TRANSITION STRIPING PER USDCCA STD DWG NO. 245 (2 OF 3)

STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT "A"

IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECT'S STREETLIGHTS? (CIRCLE)	YES	CONTACT CITY OF LAS VEGAS TRAFFIC OPERATIONS AT 229-6448 TO PERFORM CIRCUIT CAPACITY VERIFICATION
	NO	INSTALL A NEW PEDESTAL
SERVICE PEDESTAL LOCATION: MICHAEL STA: 12+84.56		

CLARK COUNTY (COMPLETE IF EXISTING SERVICE)

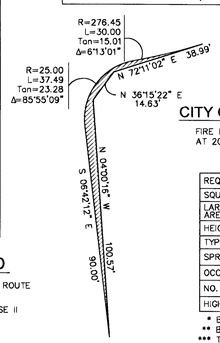
DATE OF CAPACITY VERIFICATION	N/A
PERSON WHO DID THE VERIFICATION	N/A

OFF-SITE PLANS ENGINEER

PERSON WHO DID THE CALCULATIONS	TREASEA WOLF, P.E.
CONSULTING ENGINEERING FIRM	WALKER ENGINEERING, LLC

CAPACITY CALCULATIONS

1	CIRCUIT CAPACITY:	60	AMPS
2	MAXIMUM CONTINUOUS CURRENT DRAW (80%)	48	AMPS
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	0	AMPS
4	AVAILABLE (2 MINUS 3)	48	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT:			
5	0 NUMBER OF 100 WATT STLTS @ 1.0 AMPS/EA	0	AMPS
6	5 NUMBER OF 250 WATT STLTS @ 1.5 AMPS/EA	7.5	AMPS
7	TOTAL PROPOSED ADDITIONAL LOAD (5 + 6)	7.5	AMPS
REMAINING AVAILABLE LOAD (4 MINUS 7)		40.5	AMPS



CITY OF LAS VEGAS FIRE DEPARTMENT

FIRE FLOW REQUIREMENT IS 4,000 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL BASED ON:

	PHASE 1	FULL BUILD OUT
REQ'D FIRE FLOW*	2,250	4,000
SQUARE FOOTAGE **	45,417	106,571
LARGEST AREA BETWEEN AREA SEPARATION WALLS	N/A	N/A
HEIGHT	50'	50'
TYPE OF CONSTRUCTION ***	IIB/V-B	IIB/V-B
SPRINKLER SYSTEM	YES	YES
OCCUPANCY	A-3/B	A-3/B
NO. OF STORIES	2	2
HIGH PILED STORAGE	NO	NO

* BASED ON 50% REDUCTION FOR FIRE SPRINKLERS
** BASED ON MAXIMUM SQUARE FOOTAGE POSSIBLE
*** TYPE OF CONSTRUCTION IS SPLIT

SIGHT VISIBILITY ZONES
SCALE: 1"=30'

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.

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.

EX. UTILITY POLE NOTE

36" CLEARANCE IS REQUIRED BETWEEN THE EXISTING UTILITY POLES AND THE BACK OF SIDEWALK FOR ADA ACCESS. IF 36" IS NOT PROVIDED, SIDEWALK MUST BE WIDENED TO PROVIDE 36" CLEAR.

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°14'28"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	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°57'54"	144.15
C4	13.91	14.50	54°57'54"	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°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

NOTE

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

ACCESSIBILITY NOTES

1. MAXIMUM SLOPE ON THE ACCESSIBLE ROUTE IS 5.0% IN THE DIRECTION OF TRAVEL, 2.0% CROSS SLOPE.
2. MAXIMUM SLOPE IN ACCESSIBLE PARKING STALL LOADING AISLES IS 2.0% IN ANY DIRECTION.
3. PROVIDE ACCESSIBLE PARKING STALL SIGNAGE FOR HANDICAP AND VAN ACCESSIBLE STALLS PER NRS 484.408.
4. HANDICAP STALLS SHALL BE 9'-0" WIDE x 19'-0" LONG (18'-0" WITH PERMITTED OVERHANG). HANDICAP STALL LOADING AISLES ARE 5'-0" WIDE x THE ENTIRE LENGTH OF THE PARKING STALL (8'-0" WIDE FOR VAN ACCESSIBLE SPACES).

PAVEMENT MARKERS

INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS OR FIRE LANES:

- ON ROADWAYS WITH NO PARKING PERMITTED ON THE HYDRANT SIDE: EIGHT (8) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.
- ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE: SIXTEEN (16) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.

OM-3R

R7-1

TRAFFIC CONTROL SIGNS
N.T.S

R1-1

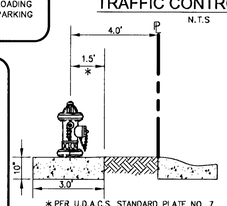
LEGEND

ADA ROUTE

PHASE II

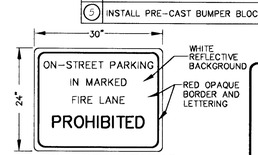
ON-SITE TRAFFIC NOTES:

1	INSTALL FIRE LANE SIGNS PER CLV STANDARDS, DETAIL THIS SHEET
2	INSTALL HANDICAP PARKING SIGNS PER ADA AND CLV STANDARDS
3	INSTALL BLUE REFLECTIVE PAVEMENT MARKER IN THE FIRE LANE ADJACENT TO EACH HYDRANT
4	PAINT CURBS RED "FIRE LANE – NO PARKING"
5	INSTALL PRE-CAST BUMPER BLOCK PER STD. DWG. 238

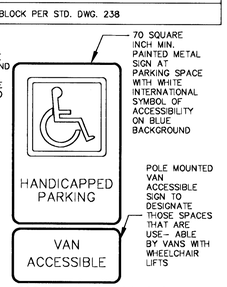


* PER U.D.A.C.S. STANDARD PLATE NO. 7

FIRE HYDRANT DETAIL
ON-SITE FIRE HYDRANTS
N.T.S.



ENTRANCE WARNING SIGN DETAIL
(NOT TO SCALE)



DISABLED STALL SIGN
(NOT TO SCALE)

FIRE LANE LEGEND

- INDICATES RED PAINTED CURB WITH "NO PARKING FIRE LANE" PAINTED EVERY 50 FT. PER CLV GUIDELINES
- INDICATES FIRE LANE FLOW DIRECTION
- INDICATES FIRE LANE LIMITS
- INDICATED PROPOSED LOCATION OF FIRE LANE SIGNS TO BE PLACED AT ENTRANCES. FIRE LANE SIGNS SHALL CONFORM TO CITY OF LAS VEGAS FIRE DEPARTMENT UNIFORM GUIDELINES (SEE DETAIL THIS SHEET)
- INDICATES PROPOSED FIRE HYDRANT
- INDICATES EXISTING FIRE HYDRANT
- R=52' R=28' (TYPICAL) TURNING RADIUS

Call before you Dig. Avoid cutting underground utility lines, it's costly. Call 811 or 1-800-227-2600 or CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-7544

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

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

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

BY: [signature] DATE: 2/17/11

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.

FIRE FLOW 4,000 GPM AT 20 PSI RESIDUAL.

DEVELOPMENT REVIEW DIVISION CLARK COUNTY PUBLIC WORKS DEPT.

ACCEPTED

FOR PORTIONS WITHIN CLARK COUNTY ONLY

ACCEPTANCE OF PLANS FOR FILING:

BY: [signature] DATE: 3-25-11

ACCEPTANCE OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR AN APPROVAL OF ANY VIOLATION OF STATE, COUNTY OR FEDERAL LAW SPECIFICATIONS, OR THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

CLV DRAWING NO. 107V 5608-1

REVISIONS

DATE	REV	DESCRIPTION OF REVISION	APPROVAL	DATE	INITIALS
7/18/11	1	ADD PAR & S/W AROUND EX. IN-GR POLE		2/17/11	

CATALYST CONSULTING COMPANY
AGUILAS CFC CHURCH

HORIZONTAL CONTROL, FIRE & TRAFFIC CONTROL PLAN
SHEET 1 OF 4
PHASE I

H37715

CC HTE: 10-10763
SUBMITTAL NO. FINAL
DATE: FEBRUARY 16, 2011
WE PROJECT NO. 1167.00
AGENCY NO. CLV:37715
SHEET NO.: H1
6 OF 27 SHEETS

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