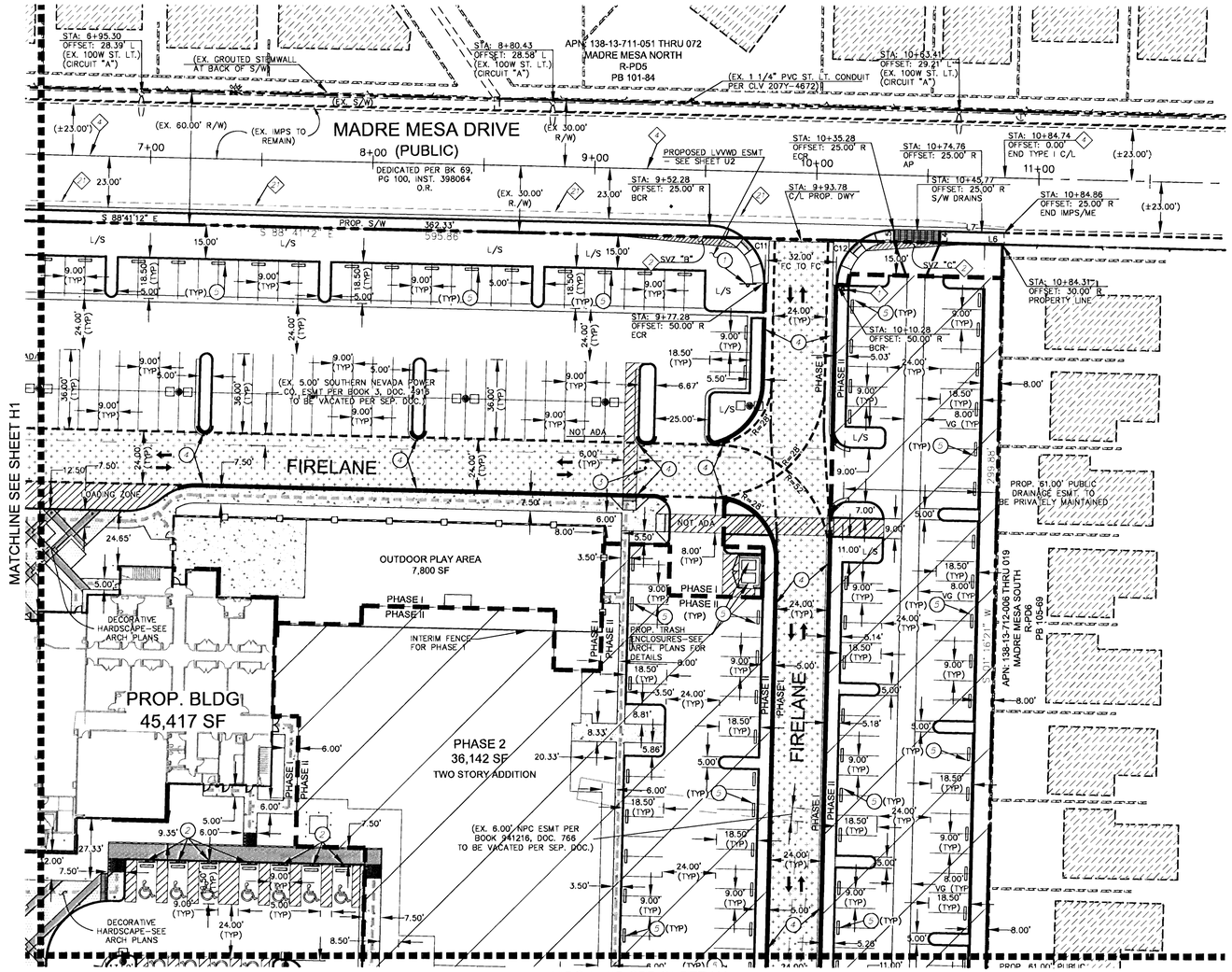
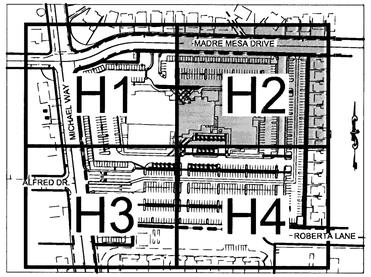


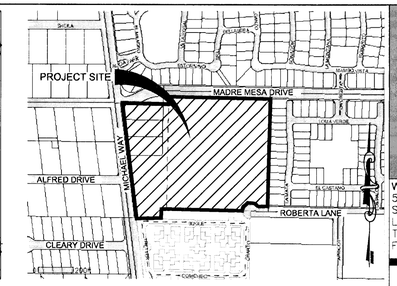


KEY MAP

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

W|E meeting your land development needs

PROFESSIONAL ENGINEER STATE OF NEVADA TREASEA WOLF CIVIL No. 17819

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 PJ0 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)

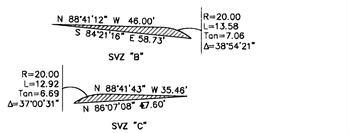
DATE OF CAPACITY VERIFICATION	N/A
PERSON WHO DID THE VERIFICATION	N/A

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



SIGHT VISIBILITY ZONES

SCALE: 1"=30'

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

NOTE

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

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.

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.

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°99'00"	21.73
C7	44.99	30.00	85°55'09"	27.94
C8	73.29	275.00	15°16'11"	36.88
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	00°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.

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 "5L/V00 1.358" 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.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
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 costly.
CALL BEFORE YOU OVERHEAD
1-702-593-6111

ENTRANCE WARNING SIGN DETAIL

(NOT TO SCALE)

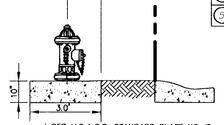
LEGEND

ADA ROUTE

PHASE II

ON-SITE TRAFFIC NOTES:

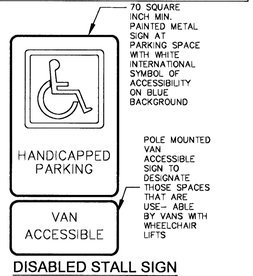
1	INSTALL FIRE LANE SIGNS PER CLV STANDARDS, DETAIL THIS SHEET
2	INSTALL HANDICAP PARKING SIGNS PER ADA AND CLV STANDARDS
3	INSTALL BLUE REFLECTIVE PAVEMENT MARKER IN THE FIRE LANE ADJACENT TO EACH HYDRANT
4	PAINT CURBS RED "FIRE LANE – NO PARKING"
5	INSTALL PRE-CAST BUMPER BLOCK PER STD. DWG. 238



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

FIRE HYDRANT DETAIL

ON-SITE FIRE HYDRANTS
N.T.S.



DISABLED STALL SIGN

(NOT TO SCALE)

TRAFFIC CONTROL SIGNS

N.T.S

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

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

BY: K Mik 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.

CLV DRAWING NO. 107V 5608-1

APPROVAL | DATE | INITIALS

REVISIONS

DATE	REV	DESCRIPTION OF REVISION

CATALYST CONSULTING COMPANY
AGUILAS CFC CHURCH

HORIZONTAL CONTROL, FIRE & TRAFFIC CONTROL PLAN
SHEET 2 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.: H2
7 OF 27 SHEETS

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