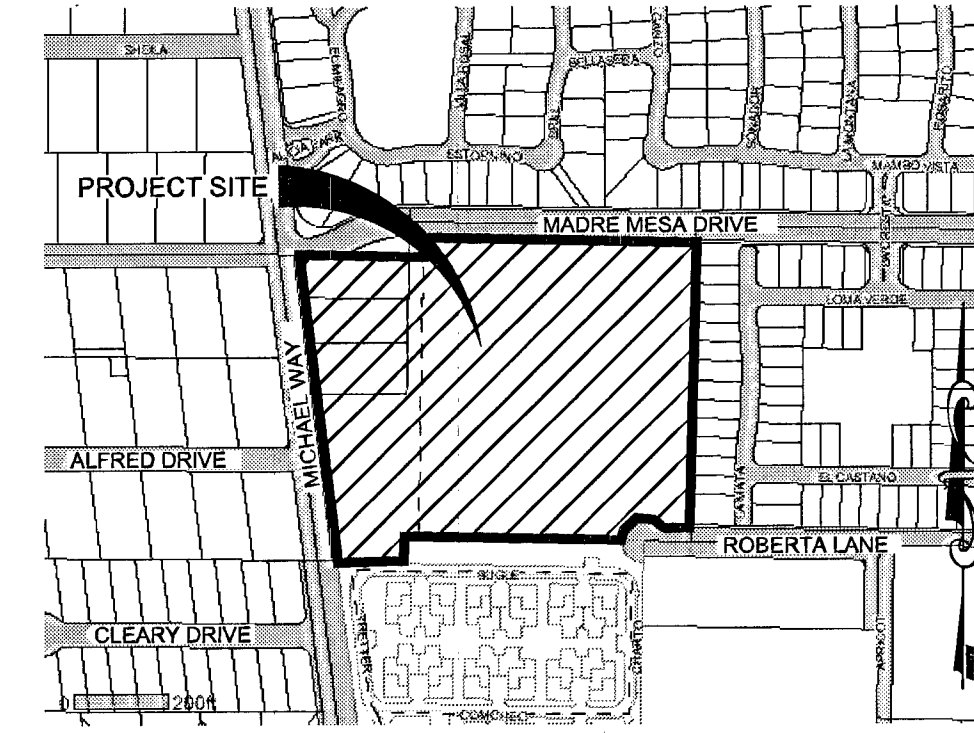
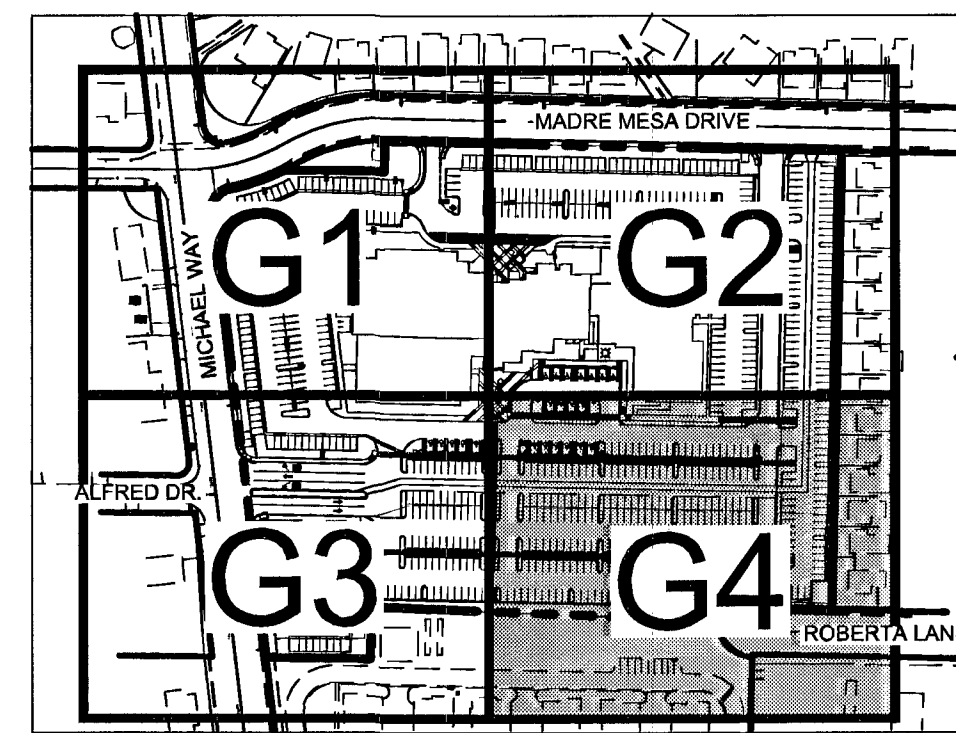
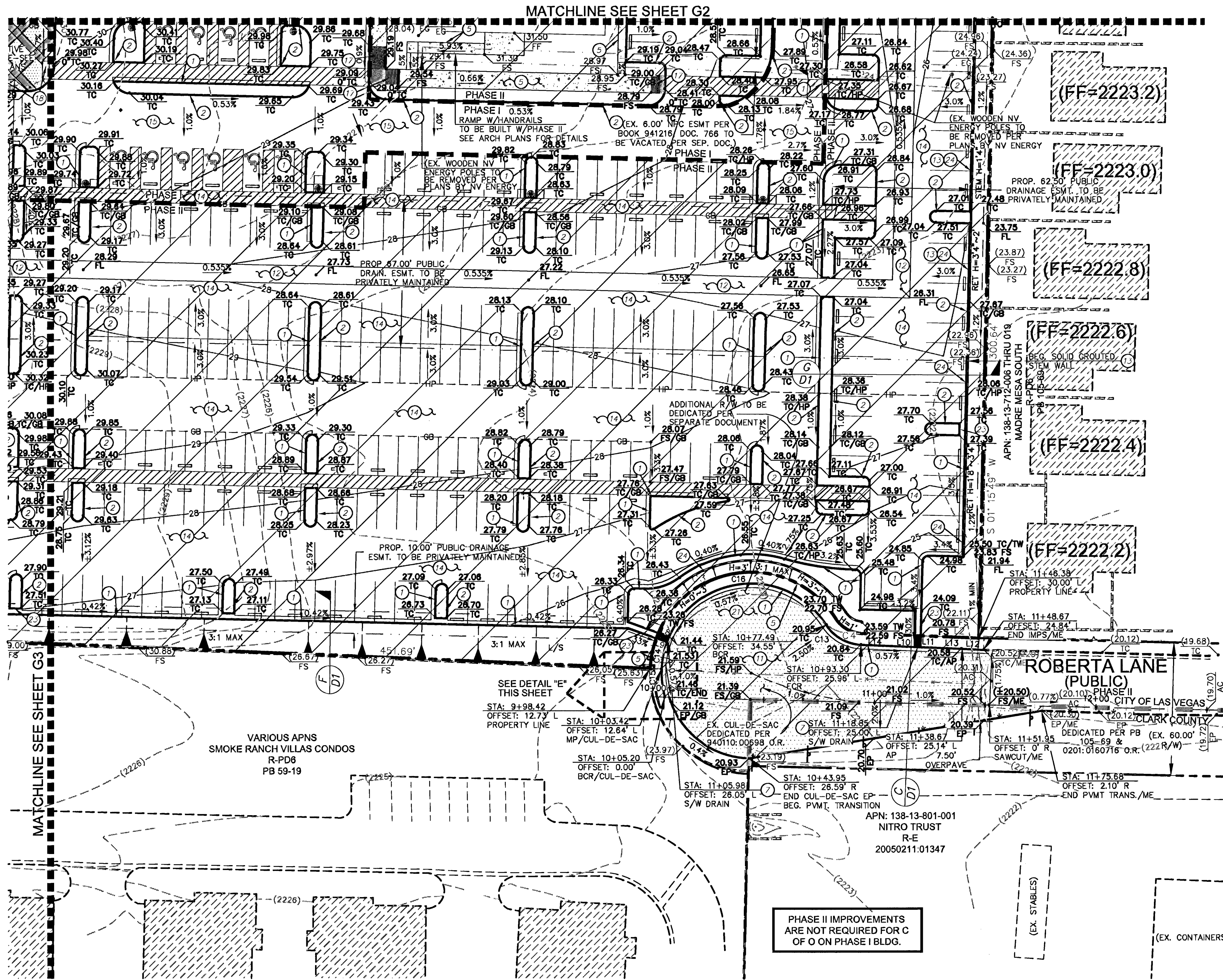
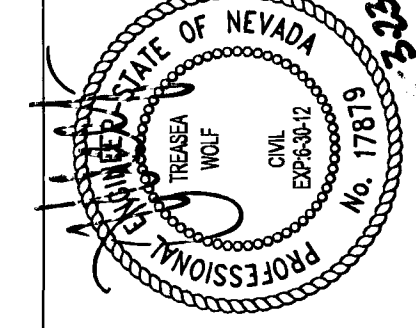




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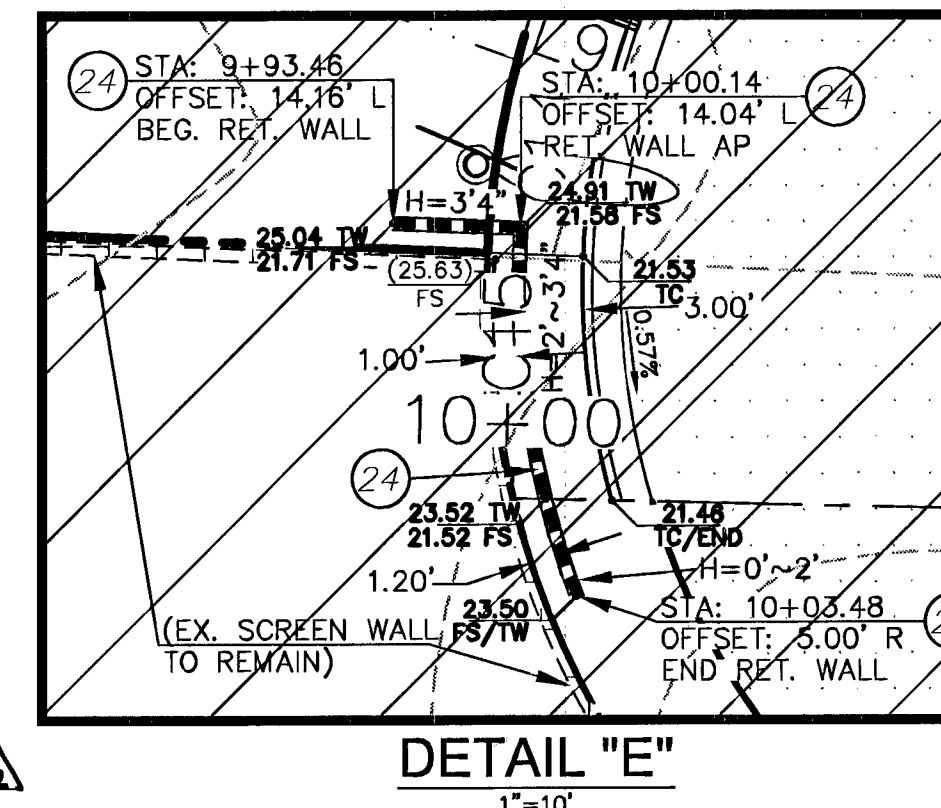
WALKER ENGINEERING, LLC
5765 S. RAINBOW BLVD., SUITE 101
LAS VEGAS, NV 89118
TEL: 702.873.5197
FAX: 702.873.5346



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 AG OVER 8" TYPE II AG. BASE PER SOILS REPORT BY JA CESARE. SEE DETAIL 1 ON SHEET D1
12	CONSTRUCT 8" WIDE CROSS GUTTER PER DETAIL 7 ON SHEET D1
13	CONSTRUCT 14" SOLID GROUTED STEM WALL WITH TOP CAP & TOP PERMIT BY OTHERS - SEE ARCHITECTURAL PLANS FOR DETAILS
14	CONSTRUCT 2" MIN AG OVER 8" TYPE II AG. BASE PER SOILS REPORT BY JA CESARE. SEE DETAIL 1 ON SHEET D1
15	CONSTRUCT 2.5" MIN AG OVER 9" TYPE II AG. 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
30	CONSTRUCT 3.5" MIN AG OVER EXISTING 8" MIN. TYPE II AGG. BASE PER LETTER BY JA CESARE DATED 6/26/11

STORM DRAIN CONSTRUCTION NOTES			
NO	ITEM		
1	INSTALL 24" BEEHIVE INLET WITH CONCRETE APRON PER CC STD. DWG. NO. 418. 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
14" STEM WALL	LF	403	456
4" SIDEWALK	SF	858	-

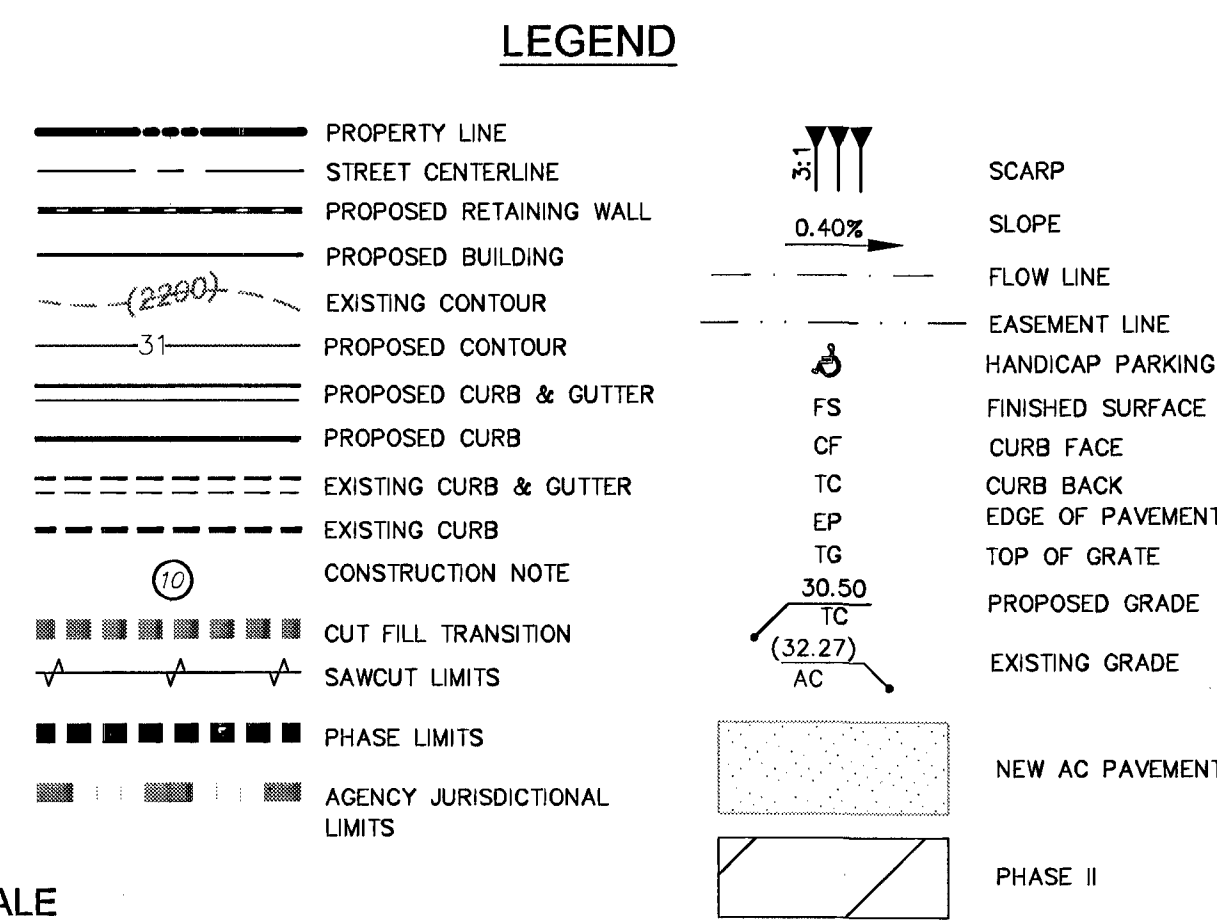


ENGINEER'S NOTES

- 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.
- 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)
- FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
- SEE ARCHITECTS PLANS FOR ALL HANDICAP ACCESSIBILITY INFORMATION, RAMP DETAILS, TRANSFORMERS, AND TRASH ENCLOSURE DETAILS. VERIFY BUILDING LAYOUTS AND DIMENSIONS WITH ARCHITECTURAL PLANS.
- CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION.
- SEE LANDSCAPE PLANS FOR LANDSCAPING AND ONSITE IRRIGATION.
- THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.
- ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
- ALL MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

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.

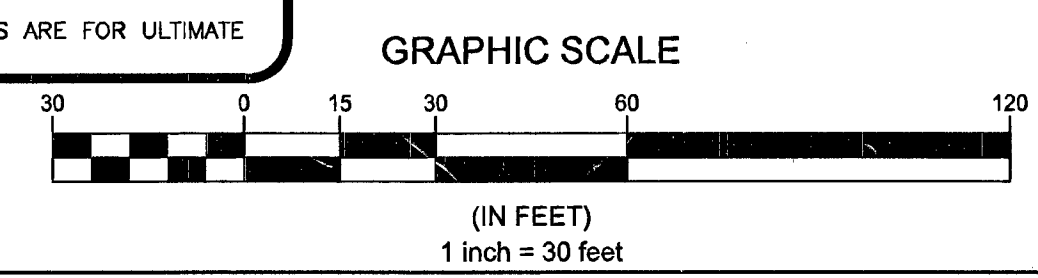


EARTHWORK QUANTITIES

*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.



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: 3/23/11

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS

ACCEPTANCE OF PLANS FOR FILING BY

N/A SEE HTE: 10-32602 FOR PHASE II

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO THE CLARK COUNTY.

CLV DRAWING NO. 107V5608-1

REVISIONS		DATE	REV	DESCRIPTION	OF
1	REVISED PAVEMENT SECTIONS FOR MICHAEL'S MAPS MESA	3/23/11	1		

CATALYST CONSULTING COMPANY

AGUILAS CFC CHURCH

PRECISE GRADING PLAN

SHEET 4 OF 4

PHASE I

CC HTE: 10-10763

SUBMITTAL NO. FINAL

DATE: MARCH 22, 2011

WE PROJECT NO.

1167.00

AGENCY NO.

CLV:37715

SHEET NO.:

G4

13 OF 27 SHEETS

EX:1167_CATALYST.DWG\IMP\DWG\05-1167.G1.dwg, 3/22/2011 5:56:30 PM, twof, Adobe PDF