

DS #:

4889

APN:

162-08-401-012

PROJECT:

World Wellness Parking lot

SUBMITTAL:

CORRECTED

SCANNED BY/DATE:

CHECKED BY/DATE:



CITY OF LAS VEGAS		DATE:
INTER-OFFICE MEMORANDUM		August 29, 2017
TO: Land Development Services Department of Building & Safety		FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT:	Drainage Study for:	
	World Wellness Parking Lot	
Cross Streets:	SEC of Sirius Avenue & Valley View Blvd.	
File Number:	F:\Depot\DSMemos\DS4889C.doc	
Parcel Number:	162-08-401-012	
Zoning Action:	SDR-67530	
FEMA Flood Zone	YES	NO X
Proposed Storm Drain	YES	NO X
COPIES TO:		Thomason Consulting Engineers
		World Wellness Group, LLC
		Bart Anderson, P.E., DevCo
		CCRFC
		CCPW

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	5/22/107	6/7/2017	Not Approved	\$400.00	486004: \$400
2 nd Submittal	7/13/2017 & 7/24/2017	7/24/2017	Conditional Approval	\$400.00	488538: \$400
CCRFC	8/14/2017	8/29/2017	Concurrence Recv'd	N/C	N/C
			TOTAL FEES (LDDRS):	\$800.00	----

REMARKS:

The Drainage Study for the subject project has been reviewed and:

	is approved subject to conformance to all City standards and the following conditions:
	must be resubmitted or supplemented including the following:
	is conditionally approved subject to Clark County Regional Flood Control District concurrence.
X	is conditionally approved subject to Clark County Public Works Department concurrence.

- The site is adjacent to the jurisdiction of *Clark County* to the west. The engineer must coordinate with *Clark County Department of Public Works (CCPW)* and incorporate any concerns for boundary conditions along *Valley View Boulevard*. CCPW concurrence is required prior to the final acceptance of the study.

NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm> or call (775) 687-9429.

END OF REMARKS

ays

T/R/S: T21S/R61E/08
AREA R-08

 *** FAX TX REPORT ***

TRANSMISSION OK

JOB NO. 0069
 DESTINATION ADDRESS 7029326129
 PSWD/SUBADDRESS
 DESTINATION ID
 ST. TIME 08/29 15:36
 USAGE T 01' 07
 PGS. 1
 RESULT OK

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM

DATE:

August 29, 2017

TO:

Land Development Services
 Department of Building & Safety

FROM:

Albert Sung, P.E.
 Flood Control Project Engineer
 Department of Public Works

SUBJECT:

Drainage Study for:

World Wellness Parking Lot

COPIES TO:

Thomason Consulting Engineers

Cross Streets:

SEC of Sirius Avenue & Valley View Blvd.

World Wellness Group, LLC

File Number:

F:\Depot\DSMemos\DS4889C.doc

Bart Anderson, P.E., DevCo

Parcel Number:

162-08-401-012

CCRFCFCD

Zoning Action:

SDR-67530

CCPW

FEMA Flood Zone

YES

NO X

Proposed Storm Drain

YES

NO X

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
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CCRFCFCD	8/14/2017	8/29/2017	Concurrence Recv'd	N/C	N/C
TOTAL FEES (LDDRS):				\$800.00	----

REMARKS:

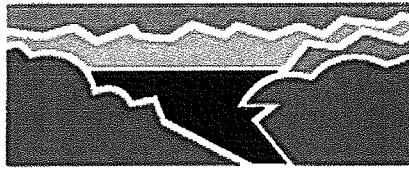
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NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent"

REGIONAL FLOOD
CONTROL DISTRICT



Rev'd: 8/14/17
DS 4889
W/C

Steven C. Parrish, P.E.
General Manager/Chief
Engineer

BOARD OF DIRECTORS

Lawrence L. Brown, III
Chairman
Clark County

Debra March
Vice-Chairman
City of Henderson

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Clark County

Mayor Carolyn Goodman
City of Las Vegas

Mayor John J. Lee
City of North Las Vegas

Dr. Lois Tarkanian
City of Las Vegas

Mayor Rodney Woodbury
City of Boulder City

August 10, 2017

Mr. Oh Sang Kwon, P.E.
City of Las Vegas Department of Public Works
333 North Rancho Drive
Las Vegas, NV 89106

**DISTRICT CONCURRENCE: WORLD WELLNESS PARKING LOT
(DS# 4889B) (RFCD No. 17-9894)**

Dear Mr. Kwon:

Clark County Regional Flood Control District (District) reviewed Technical Drainage Study dated May 22, 2017, Addendum No. 1 dated July 13, 2017, and Supplement No. 1 dated July 20, 2017 for above-mentioned project as submitted by THOMASON CONSULTING ENGINEERS. In addition, District is in receipt of the Conditional Letter of Acceptance from City of Las Vegas Department of Public Works dated July 24, 2017.

District concurs with acceptance of this Technical Drainage Study by City of Las Vegas Department of Public Works.

District's review of this project was limited to issues of Regional Flood Control Significance as defined in *Uniform Regulations for the Control of Drainage*.

Please be aware that as additional information becomes available and/or restudies of Flood Insurance Studies are performed, information submitted by THOMASON CONSULTING ENGINEERS may be superseded. Compliance with regulatory elements and design standards specified in *Uniform Regulations for the Control of Drainage* does not imply a guarantee that properties will be free from flooding or flood damage. The District, its officials, or employees assume no liability for information, data, or conclusions presented by consulting engineers. We, therefore, make no warranties, either expressed or implied, in conducting this review.

STEVEN C. PARRISH, P.E.
General Manager/Chief Engineer

BY:


Ching C. Wang, P.E.
Senior Civil Engineer


Abigail Mayrena, P.E., CFM
Principal Civil Engineer

CCW:ad

c: John B. McAvoy, P.E., Thomason Consulting Engineers

P:\Letters and Memos\Local Drainage\Land Development & Drainage\2017\17-9894.doc

SUPPLEMENT TO ADDENDUM #1 TO THE TECHNICAL HYDROLOGY STUDY FOR WORLD WELLNESS PARKING LOT

City of Las Vegas

TCE# 056-17002

DS# 4889

Prepared for:

World Wellness Group, LLC

3110 S. Valley View Blvd, Suite 202

Las Vegas, NV 89102

Prepared by:

TCE

7080 La Cienega Street, Suite 200

Las Vegas, Nevada 89119

(702) 932-6125

FAX (702) 932-6129

July 2017

☐T ☐ THOMASON
☐C ☐ ☐ CONSULTING
☐E ☐ ☐ ☐ ENGINEERS

July 20, 2017

Albert Sung, P.E.
City of Las Vegas
Department of Public Works
333 N. Rancho Drive
Las Vegas, Nevada 89106

**Re: Supplement to Addendum #1 to the Technical Hydrology Study for World Wellness
Parking Lot
DS# 4889
TCE# 056-17002**

Mr. Sung:

Per the telephone conversation between Albert Sung and John McAvoy of TCE, on 7-20-17. This letter and its following attachments serve as a supplement to the following comment:

- 1. Revise the Stem Wall location along Sirius Avenue to be located at the back of curb of the parking lot to provide more open area for the flow within Sirius to spread. Revise the flowmaster and any other calculations for this Section.**

We have revised the stem wall location along Sirius to be located at the back of curb at the parking lot. We have revised the flowmaster calculation and provided a Rip-rap sizing calculation for the revised wall location. Please see the below summary of the revised section and the following attachments for the calculations.

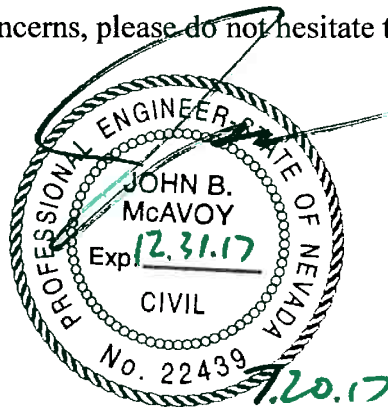
Table 1. Revised Street Capacities

Street Section	Q- cfs	D - ft	V . Ft/s	V x D
Sirius – 100 year – At Stem Wall	1045	1.66	8.56	14.21

Should you have any questions or concerns, please do not hesitate to contact this office at 932-6125.

Sincerely,
Thomason Consulting Engineers

John B. McAvoy, P.E.
Project Engineer



T THOMASON
C CONSULTING
E ENGINEERS

Cross Section for Sirius EX. 100 year - section at stem wall

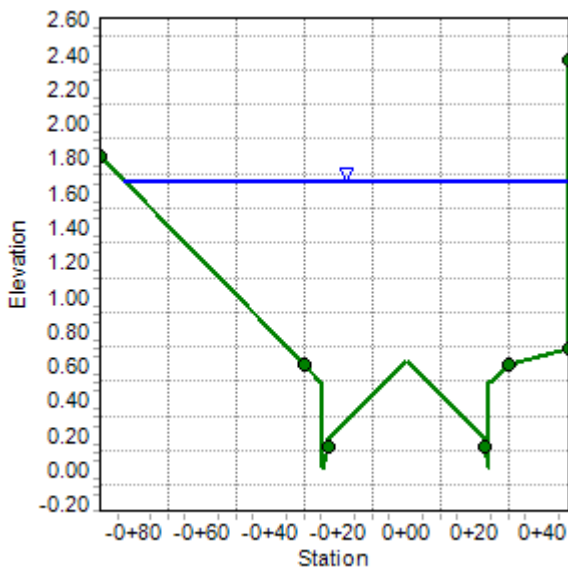
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.01610	ft/ft
Normal Depth	1.66	ft
Discharge	1045.00	ft ³ /s

Cross Section Image



Worksheet for Sirius EX. 100 year - section at stem wall

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.01610	ft/ft
Discharge	1045.00	ft ³ /s
Section Definitions		

Station (ft)	Elevation (ft)
-0+90.00	1.80
-0+30.00	0.60
-0+25.00	0.50
-0+24.50	0.50
-0+24.50	0.00
-0+23.00	0.13
-0+23.00	0.17
0+00.00	0.63
0+23.00	0.17
0+23.00	0.13
0+24.50	0.00
0+24.50	0.50
0+25.00	0.50
0+30.00	0.60
0+48.00	0.69
0+48.00	2.36

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(-0+90.00, 1.80)	(-0+30.00, 0.60)	0.016
(-0+30.00, 0.60)	(-0+23.00, 0.13)	0.013
(-0+23.00, 0.13)	(0+23.00, 0.13)	0.016
(0+23.00, 0.13)	(0+30.00, 0.60)	0.013
(0+30.00, 0.60)	(0+48.00, 0.69)	0.040

Worksheet for Sirius EX. 100 year - section at stem wall

Input Data

Start Station	Ending Station	Roughness Coefficient
(0+48.00, 0.69)	(0+48.00, 2.36)	0.016

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	1.66	ft
Elevation Range	0.00 to 2.36	ft
Flow Area	121.75	ft ²
Wetted Perimeter	133.23	ft
Hydraulic Radius	0.91	ft
Top Width	131.15	ft
Normal Depth	1.66	ft
Critical Depth	2.00	ft
Critical Slope	0.00599	ft/ft
Velocity	8.58	ft/s
Velocity Head	1.14	ft
Specific Energy	2.81	ft
Froude Number	1.57	
Flow Type	Supercritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	1.66	ft
Critical Depth	2.00	ft

Worksheet for Sirius EX. 100 year - section at stem wall

GVF Output Data

Channel Slope	0.01610	ft/ft
Critical Slope	0.00599	ft/ft

ROCK SIZING

Landscaping Along Sirius at Stem Wall

Based on Equation 734 (CCRFCD Manual)

$$V = 3 (d_{50})^{0.5} (S_s - 1)/S^{0.17}$$

V = **8.58** Mean Channel Velocity, in fps

S = **0.016** Longitudinal Channel Slope, in ft/ft

S_s = **2.5** Specific Gravity of Rock (Minimum S_s = 2.50)

d₅₀ = - Rock Size

Solving for d₅₀

d₅₀ = **0.89 ft**

Say **11 in**

Mannings n = 0.039

Based on Equation 732 (CCRFCD Manual)

$$n = 0.0395(d_{50})^{1/6}$$

Setting to Minimum Standard Size

Solving for d₅₀

d₅₀ = **1.00 ft**

Say **12 in**

Mannings n = 0.040

WORLD WELLNESS PARKING LOT

ASSESSOR'S PARCEL NUMBER

PORTION OF 162-08-410-012

CITY OF LAS VEGAS
STATE OF NEVADA

OWNER/DEVELOPER

WORLD WELLNESS GROUP, LLC

3010 LA MESA DRIVE
HENDERSON, NEVADA 89014
(702) 595-4761

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION
IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM
THE L.V.V.W.D.

CITY OF LAS VEGAS FIRE DEPARTMENT DATE

DOUG RANKIN, AICP
CITY OF LAS VEGAS PLANNING MANAGER

THIS PLAN MEETS THE APPLICABLE STANDARDS OF THE
PLANNING AND DEVELOPMENT DEPARTMENT

CHERI EDELMAN, P.E. #11514
CITY OF LAS VEGAS CITY ENGINEER, ACTING

APPROVAL OF THESE PLANS IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHTS-OF-WAY AND/OR DEDICATED EASEMENTS. THE APPROVAL DOES NOT AUTHORIZE THE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEViate FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS EXCEPT THOSE SPECIFICALLY LISTED UNDER "DEVIATIONS FROM STANDARDS". THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN "DEVIATIONS FROM STANDARDS" IN FAVOR OF THE UNIFORM STANDARDS DRAWINGS AND SPECIFICATIONS CLARK COUNTY AREA NEVADA.

PH: (702) 595-4761 3710 S. VALLEY VIEW BOULEVARD, SUITE 202, LAS VEGAS, NV 89102 FAX:

WORLD WELLNESS GROUP, LLC

WORLD WELLNESS PARKING LOT
COVER SHEET

T **THOMASON**
C **CONSULTING**
E **ENGINEERS**

33277 E. WARM SPRINGS ROAD, SUITE 400
LAS VEGAS, NEVADA 89120
702-932-6129 FAX: 702-932-6129

1000000000

REV.	DATE	BY	SHT	#S	REVISION
T:\Projects\056\08001\5608001-COVER.dwg 4/21/2010 3:09:21 PM PDT					

Call before you Dig
Avoid cutting underground
utility lines. It's costly.
Call

OR
1-800-227-2600



FAST

Call
 **before you**
Underground
1-702-432-5300
FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE WEST LINE OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M. WHICH BEARS NORTH 02°04'21" WEST AS DETERMINED BY GLOBAL POSITIONING SYSTEM OBSERVATIONS WITH RESPECT TO THE SOUTHERN NEVADA HIGH ACCURACY NETWORK (HARN).

BENCHMARK

CITY OF LAS VEGAS BENCHMARK # 1LV11 8SWW6
BEING A RIVET & PLATE IN TOP OF CURB @ THE
NORTHEAST CORNER OF VALLEY VIEW AND SIRIUS

ELEVATION: 655.9883 (FEET)
2152.19 (METERS)

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

Professional Engineer Seal for John B. McAvoy, State of Nevada, Civil, No. 22439, R.0.17

1 OF 5
DRAWING NO.

BASIS OF BEARING
THE BASIS OF BEARINGS FOR THIS SURVEY IS THE WEST LINE OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M. WHICH BEARS NORTH 02°04'21" WEST AS DETERMINED BY GLOBAL POSITIONING SYSTEM OBSERVATIONS WITH RESPECT TO THE SOUTHERN NEVADA HIGH ACCURACY NETWORK (HARN).

BENCHMARK
CITY OF LAS VEGAS BENCHMARK # 1LV11 8SWW6 BEING A RIVET & PLATE IN TOP OF CURB @ THE NORTHEAST CORNER OF VALLEY VIEW AND SIRIUS.
ELEVATION: 655.9883 (FEET)
2152.19 (METERS)
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call before you Dig
Avoid hitting overhead power lines. It's costly.

FAST
Call before you Dig
Underground
1-702-432-5300



SHEET INDEX		
1	C1	COVER SHEET
2	C2	VICINITY MAP, QUANTITIES AND SHEET INDEX
3	C3	GENERAL NOTES
4	G1	GRADING PLAN
5	D1	DETAILS

PH: (702) 695-7261

3010 LA MESA DRIVE, HENDERSON, NV 89014

FAX:

WORLD WELLNESS GROUP, LLC

WORLD WELLNESS PARKING LOT

VICINITY MAP, QUANTITIES AND SHEET INDEX

THOMASON CONSULTING ENGINEERS

3277 E. WARM SPRINGS ROAD, SUITE 400

LAS VEGAS, NEVADA 89120

702-932-6125 FAX: 702-932-6129

DESIGNED BY: _____

CHECKED BY: _____

COMMENTS ADDRESSED BY: _____

PROJECT NO. _____

SCALE: _____

REV. DATE BY _____

056.08001

REGISTERED PROFESSIONAL ENGINEER - STATE OF NEVADA

JOHN B. McAVOY

CIVIL

No. 22439

EXP. 12-31-17

JOHN B. McAVOY, P.E.

R.P.E. NO. 22439

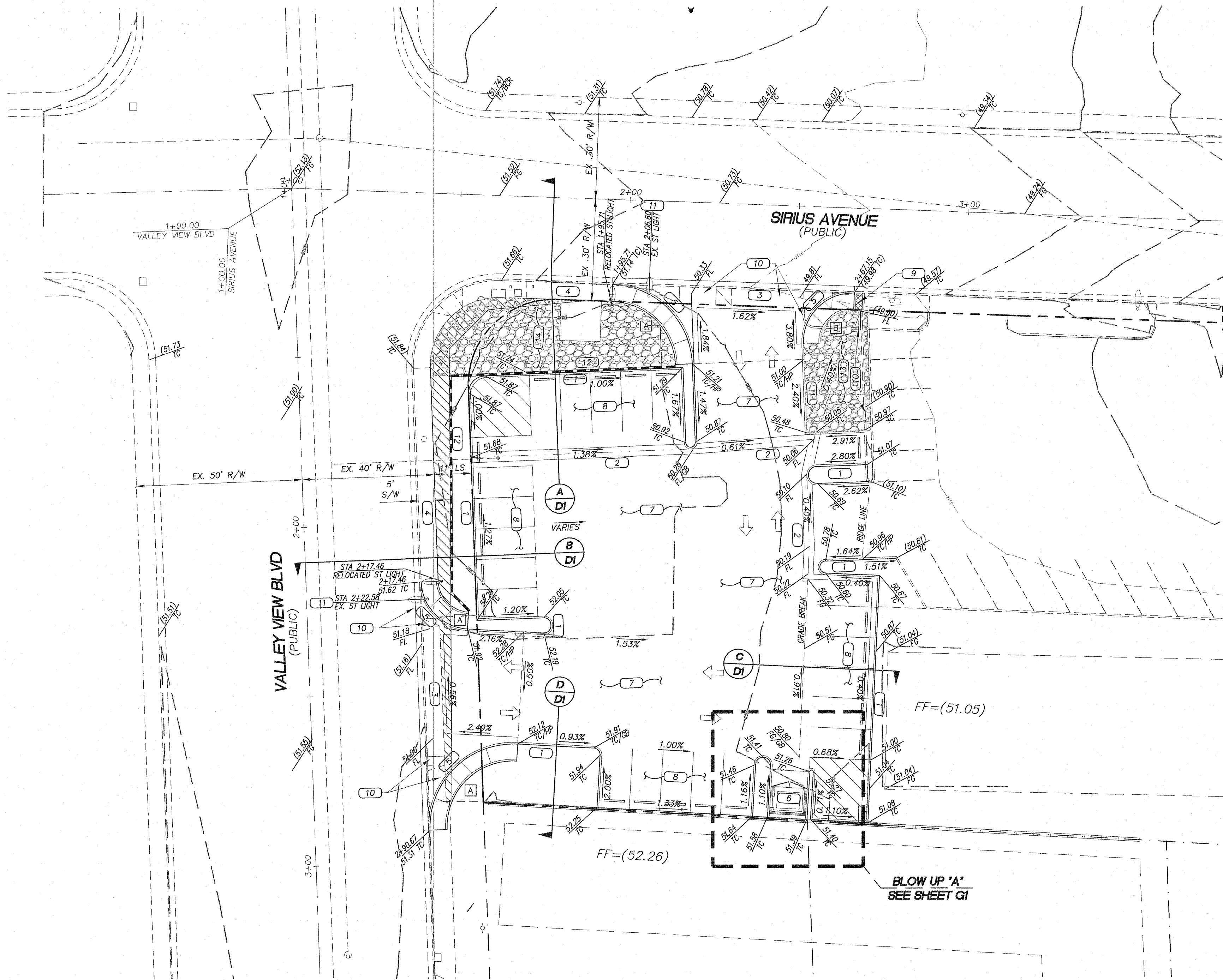
EXP. 12-31-17

SHEET

C2

2 OF 5

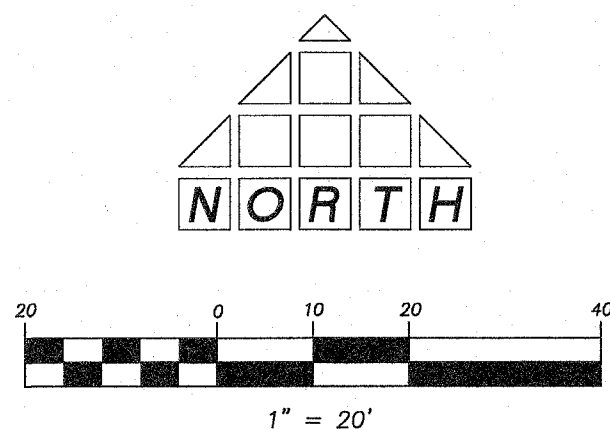
DRAWING NO.



NOTE:
ADD 2100 FEET TO ALL SPOT ELEVATIONS

SIDEWALK RAMP DATA
PER STD. DWG. 235
CASE I

	A	B
A	8'	8'
B	9.5'	4.5'



BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE WEST LINE OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M. WHICH BEARS NORTH 02°04'21" WEST AS DETERMINED BY GLOBAL POSITIONING SYSTEM OBSERVATIONS WITH RESPECT TO THE SOUTHERN NEVADA HIGH ACCURACY NETWORK (HARN).

BENCHMARK

CITY OF LAS VEGAS BENCHMARK # 1LV11 85WVG BEING A RIVET & PLATE IN TOP OF CURB @ THE NORTHEAST CORNER OF VALLEY VIEW AND SIRIUS.
ELEVATION: 655.9883 (FEET)
2152.19 (METERS)
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

GRADING NOTE:
SITE SHALL BE GRADED IN ACCORDANCE WITH THE APPROVED GEOTECHNICAL REPORT.

SOILS REPORT

WRIGHT ENGINEERS
5272 ARVILLE STREET, SUITE 108
LAS VEGAS, NEVADA 89118
PHONE: (702) 933-7000

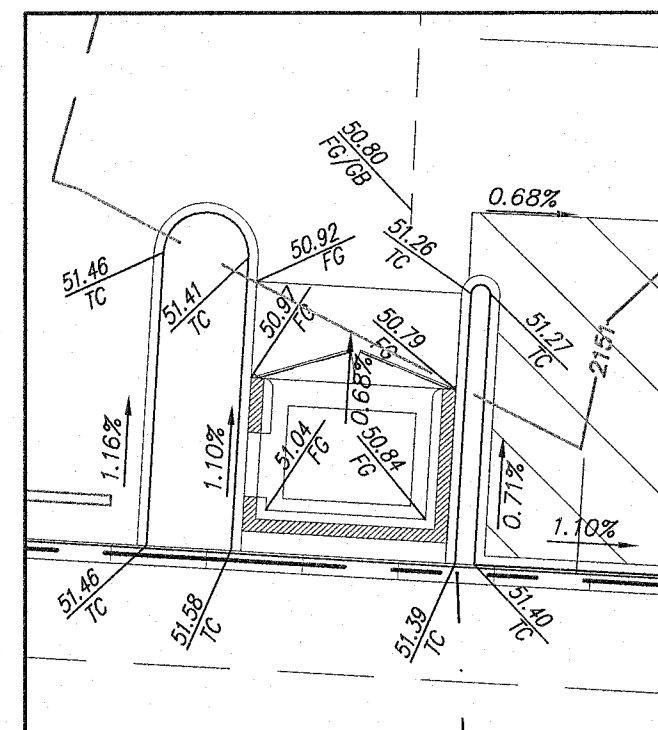
PROJECT NO. 152442
NOVEMBER 30, 2015

CONSTRUCTION NOTES

- CONSTRUCT MODIFIED "A" TYPE CURB DETAIL 17 ON SHEET D1.
- CONSTRUCT 3' VALLEY GUTTER PER DETAIL SHEET D1.
- CONSTRUCT 8' CONC. CROSS GUTTER PER CCAUSD 228
- CONSTRUCT 5' SIDEWALK PER CCAUSD 234
- CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CCAUSD 235 (CASE 1)
- EXISTING TRASH ENCLOSURE. PROTECT IN PLACE
- INSTALL 3" A.C. PAVEMENT OVER 4" TYPE II AGGREGATE BASE PER SOILS REPORT FOR DRIVE LANE AREA/TURNING ONLY. SEE DETAIL 13/D1 ON SHEET D1.
- INSTALL 2" A.C. PAVEMENT OVER 4" TYPE II AGGREGATE BASE PER SOILS REPORT FOR PARKING AREA ONLY. SEE DETAIL 11/D1 ON SHEET D1.
- CONSTRUCT 2' SIDEWALK UNDERDRAIN PER CCAUSD 236
- EXISTING IMPROVEMENTS TO BE REMOVED
- EXISTING STREETLIGHT TO BE RELOCATED
- CONSTRUCT 2' STEM WALL
- CONSTRUCT RIP-RAP SECTION D₉₀=9", THICKNESS=18"
- CONSTRUCT RIP-RAP SECTION D₉₀=12", THICKNESS=24"

LEGEND

- PROPERTY LINE / BOUNDARY LINE
- "L" TYPE CURB AND GUTTER
- "A" TYPE CURB
- EXISTING CURB AND GUTTER
- EXISTING UTILITY (AS SHOWN)
- CROSS GUTTER
- WHEELCHAIR RAMP
- CUT OR FILL SLOPE
- PROPOSED PAVEMENT AREA
- EXISTING PAVEMENT TO BE REMOVED AND REPLACED
- PROPOSED ELEVATION (DESCRIPTION AS SHOWN)
- EXISTING ELEVATION (DESCRIPTION AS SHOWN)
- FUTURE DESIGN ELEVATION (DESCRIPTION AS SHOWN)
- EDGE OF PAVEMENT
- TOP OF FOOTING
- TOP OF WALL
- TOP OF RETAINING WALL
- TOP OF SIDEWALK
- BUILDING NUMBER
- PAD ELEVATION
- FINISHED FLOOR ELEVATION
- WHEELCHAIR ACCESS ROUTE
- SIGHT VISIBILITY RESTRICTION ZONES PER STD. DWG. 201.1 (NO STRUCTURE, VEGETATION, OR OBJECT OF ANY KIND IS PERMITTED OVER TWENTY FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONE.
- SCREEN WALL
- STEM WALL
- RETAINING WALL
- EXISTING WALL
- A.C. SAWCUT LINE
- CUT / FILL LINES
- CONCRETE
- RIGHT-OF-WAY



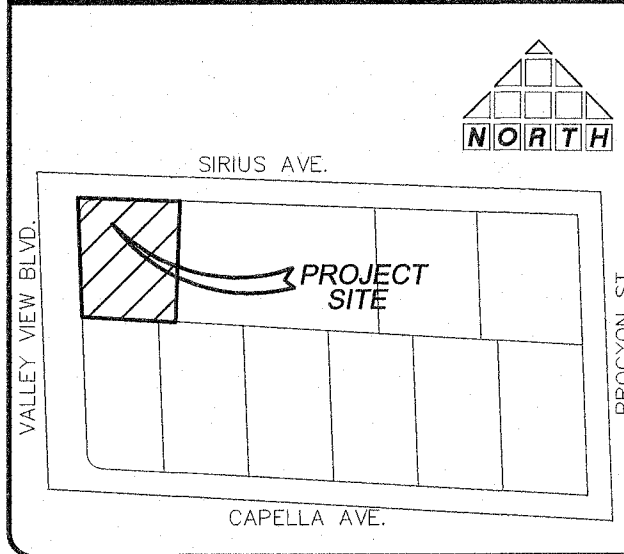
BLOW UP DETAIL 'A'
1"=10'

- EASEMENTS FOR PRIVATE UTILITIES, PRIVATE DRAINAGE, TOGETHER WITH RIGHTS OF PRIVATE VEHICULAR AND PEDESTRIAN INGRESS/EGRESS ON ALL AREAS NOT OCCUPIED BY BUILDINGS TO BE RESERVED AND GRANTED WITH COMMERCIAL SUBDIVISION MAP.
- DRIVE AISLES TO BE USED AS CONVEYANCE FOR OFFSITE FLOWS FROM ADJACENT PROPERTIES.

CERTIFICATION

I HEREBY CERTIFY THAT THE GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS PUBLIC WORKS FOR THIS PROJECT. - DS # 4889

JOHN B. McAVOY, P.E. NO. 22439
DATE



FOR ALL GRADING AND STREET SECTION SEE DETAIL SHEET D1. FOR ALL NOTES SEE THE GENERAL NOTES SHEET C3.

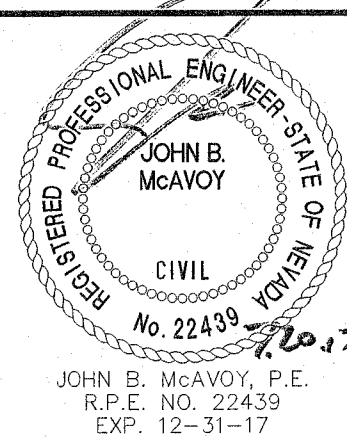
DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATIONS.

NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES ARE ENCOUNTERED.

THOMASON CONSULTING ENGINEERS
3277 E. WARM SPRINGS ROAD, SUITE 400
LAS VEGAS, NEVADA 89120
702-932-6129

WORLD WELLNESS GROUP, LLC
3110 S. VALLEY VIEW BOULEVARD, SUITE 202, LAS VEGAS, NV 89102
PH: (702) 595-7761
WORLD WELLNESS PARKING LOT GRADING SHEET



SHEET **G1**
4 OF 5
DRAWING NO.

Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call before you Overhead
Avoid overhead power line contact.

Call before you UnderGround
Avoid power environment safety services department.

1-800-227-2600
1-702-227-2929
1-702-445-7544



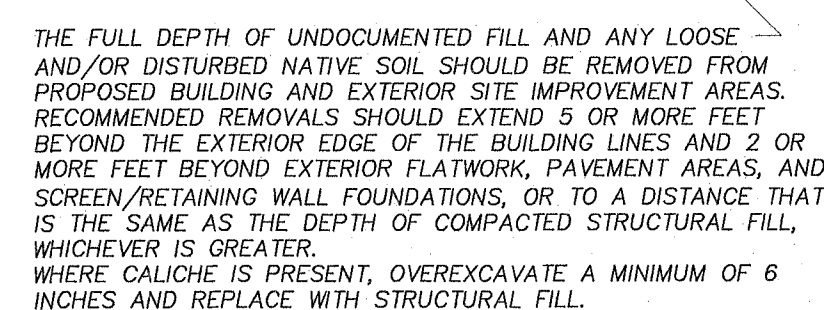
NOTE:

1. 3' UTILITY, STREETLIGHT, TRAFFIC CONTROL DEVICES AND DRAINAGE EASEMENT EASEMENT.
2. LANDSCAPE, TREES AND SHRUBS SHALL CONFORM WITH CLARK COUNTY DEVELOPMENT CODE (TITLE 30) FIG. 30.64-17 FOR SIRIUS AVENUE

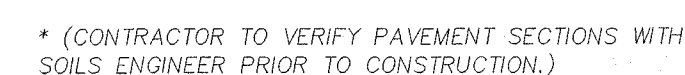
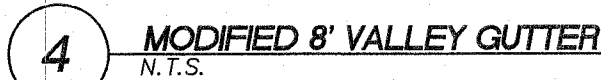


NOTE:

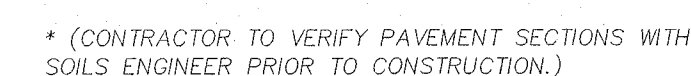
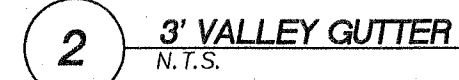
1. 3' UTILITY, STREETLIGHT, TRAFFIC CONTROL DEVICES AND DRAINAGE EASEMENT EASEMENT.
2. LANDSCAPE, TREES AND SHRUBS SHALL CONFORM WITH CLARK COUNTY DEVELOPMENT CODE (TITLE 30) FIG. 30 64-17 FOR VALLEY VIEW RD WD.



5 MODIFIED TYPE 'A' CURB
N.T.S.



3 LIGHT TRAFFIC PVMT-PARKING SECTION
N.T.S.



1 HEAVY TRAFFIC PVMT-DRIVE ISLE SECTION
N.T.S.