

DS #: 4564

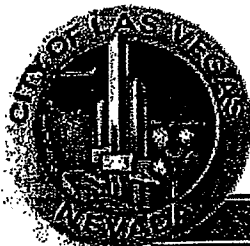
APN: 138-15-201-002

PROJECT: Emergency operations center (phase 1) update

SUBMITTAL: 2nd

SCANNED BY/DATE: _____

CHECKED BY/DATE: _____





CITY OF LAS VEGAS		DATE:
INTER-OFFICE MEMORANDUM		August 30, 2012
TO: Land Development Services Department of Public Works		FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT:	Drainage Study for:	COPIES TO:
	Emergency Operations Center (Phase 1) - Update	Wright Engineers
Cross Streets:	SEC of Buffalo Drive & Sauer Drive	City of Las Vegas Attn: Sam Tolman
File Number:	F:\Depot\DSMemos\DS4564B.doc	Bart Anderson, P.E., DevCo
Parcel Number:	138-15-201-002	CCRFCD
Zoning Action:	SDR-46450	
FEMA Flood Zone	YES	NO X
Proposed Storm Drain	YES	NO X

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	7/26/2012	7/31/2012	Approved	\$400.00	291145: \$400
2 nd Submittal	8/28/2012	8/30/2012	See Comments Below	N/C	N/C
TOTAL FEES (LDDRS):					----

REMARKS:

2nd Submittal: Update to shift the future building pad 6' to the north

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

X	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.

The following condition is repeated until it is complete:

1. Provide a copy of the zoning condition (SDR-46450) upon approval for *Flood Control Section's* filing.

NOTE: Any future changes to the proposed design (or design assumptions) as outlined in the approved drainage study and attached preliminary grading plan which affect drainage must be addressed in a Drainage Study Amendment and accepted by the *City of Las Vegas Flood Control Section*. Additionally, conditional acceptance of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the *City of Las Vegas* reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

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: T20S/R60E/15
AREA L-15

*** FAX TX REPORT ***

TRANSMISSION OK

JOB NO. 4698
 DESTINATION ADDRESS 9337001
 PSWD/SUBADDRESS
 DESTINATION ID
 ST. TIME 08/30 16:05
 USAGE T 01' 05
 PGS. 1
 RESULT OK

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM

DATE:

August 30, 2012

TO:
Land Development Services
Department of Public Works

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

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Emergency Operations Center (Phase 1) - Update

COPIES TO:
Wright Engineers

Cross Streets: SEC of Buffalo Drive & Sauer Drive

City of Las Vegas
Attn: Sam Tolman

File Number: F:\Depot\DSMemos\DS4564B.doc

Bart Anderson, P.E., DevCo

Parcel Number: 138-15-201-002

CCRFC

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Proposed Storm Drain YES NO **X**

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WRIGHT ENGINEERS

Rec'd: 8/28/12

DS 4564

L-15

n/c

TECHNICAL DRAINAGE STUDY UPDATE #2 FOR EMERGENCY OPERATIONS CENTER

CITY OF LAS VEGAS
August 28, 2012



PREPARED FOR:

CITY OF LAS VEGAS
495 S. MAIN STREET
LAS VEGAS, NEVADA 89101



August 28, 2012

CIVIL
STRUCTURAL
MECHANICAL

Albert Sung
Flood Control
City of Las Vegas Public Works
731 S. Fourth Street
Las Vegas, Nevada 89101

ELECTRICAL
PLUMBING
SURVEYING
LEED

**RE: TECHNICAL DRAINAGE STUDY UPDATE #2 FOR EMERGENCY
OPERATIONS CENTER (AKA WEST SERVICE CENTER – BUILDING AND
SAFETY EXPANSION – DS3812)**
Job No. CN112246

Dear Mr. Sung:

Wright Engineers is pleased to submit the Technical Drainage Study (TDS) Update #2 for your review and approval for the above-mentioned project. The site is located in the City of Las Vegas (CLV) and within a portion of APN 138-15-201-002, as recorded on the Clark County Assessor's maps. See *Figure 1, Vicinity Map*.

This update addresses the future building pad shifting 6' to the north to better accommodate the traffic pattern. Overall onsite drainage patterns and flow rates will not be changed by the proposed improvements.

Previous drainage studies to this site include:

1. TDS for West Service Center – Building and Safety Expansion, prepared by JPL Engineering, Inc. and approved on June 6, 2005 (DS3812).
2. TDS for CLV West Service Center prepared by Harding ESE, Inc., and approved on April 29, 2005 (DS3057).
3. Update #1 to the TDS for Emergency Operations Center (DS3812) completed by Wright Engineers, and approved on July 31, 2012.

Any pertinent reference information has been provided in the Appendix.

If you have any questions or comments regarding this project, please do not hesitate to contact this office at (702) 933-7000.

Sincerely,
Wright Engineers

John M. Walker, P.E.
Project Manager

635 Village Center Cr.
Ste 200
Las Vegas, NV 89134
(p) 702.933.7000
(f) 702.933.7001
800.933.7611
wrightengineers.com

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

DRAINAGE STUDY INFORMATION FORM

Name of Development: Emergency Operations Center Date: July 25, 2012

Location of Development: a) Descriptive (Cross Streets) North/South: Buffalo Dr
East/West: Sauer Dr
b) Section: 15 Township: 20 S Range: 60 E
c) APN: 138-15-201-002

Name of Owner: City of Las Vegas

Telephone No.: 702-229-6011 Facsimile No.: 702-229-6276 Email Address: stolman@lasvegasnevada.gov

Address: 495 S. Main Street Las Vegas NV 89101

Contact Person Name: John Walker, PE Telephone No.: (702) 933-7000

E-mail Address: jwalker@wrightengineers.com

Firm: Wright Engineers

Address: 1635 Village Center Circle, Ste 200, Las Vegas, NV 89101

Type of Land Development/Land Disturbance Process:

☐
☐
☐

Rezoning
Parcel Map
Large Parcel Map

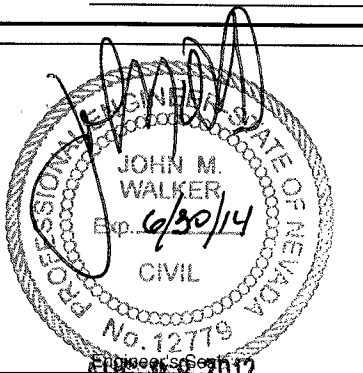
☐
☐
☒

Subdivision Map
Planned Unit Development
Building Permit

☐
☐

Clearing and Grading Only
Other (Please specify below)

- Total Owned Land Area: At Site: 161.14 +/- ac Being Developed/Disturbed: 2.3 +/- ac
- Is a portion or all of the subject property located in a designated FEMA Flood Hazard Area? YES* ☐ NO ☐
- Is the property bordered or crossed by an existing or proposed Clark County Regional Flood Control District Master Planned Facility? YES* ☐ NO ☐
- Proposed type of development (Residential, Commercial, Etc.): Commercial - Parking redesign
- Approximate upstream land area which drains to the subject site? <1 +/- ac
- Has the site drainage been evaluated in the past? ☐ YES ☐ NO If yes, please identify documentation:
DS3812 and DS3057
- If known, please briefly identify the proposed discharge point(s) of runoff from the site:
Proposed improvements match existing drainage patterns and drain to Sauer Dr.
- Briefly describe your proposed schedule for the subject project: As soon as possible



Submit this form as part of the required drainage study to the local entity which has jurisdiction over the subject property. This form may provide sufficient information to serve as the Conceptual Drainage Study.

* Review and concurrence of the Clark County Regional Flood Control District is required.

Local Entity File No. _____

Revision	Date

Reference: Wright Engineers, Inc. Job Number: **CN112246**

STANDARD FORM 1

EMERGENCY OPERATIONS CENTER

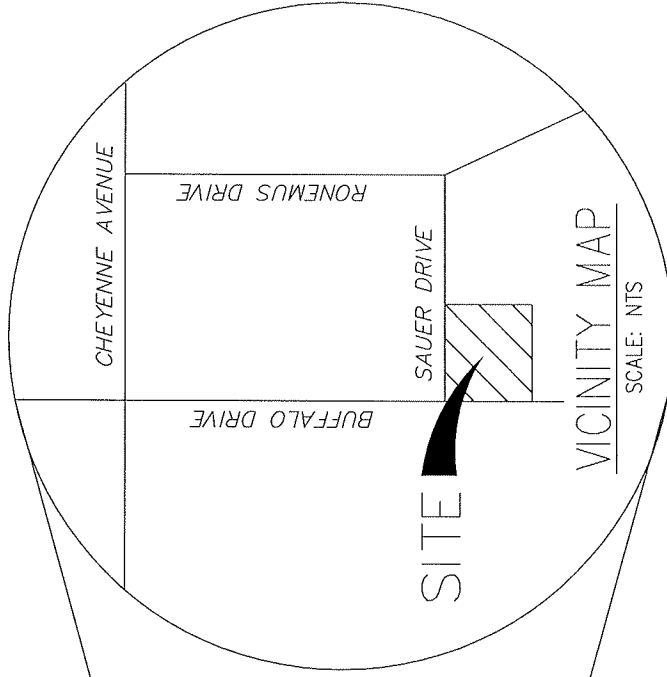


FIGURE 1

VICINITY MAP



VICINITY MAP
SCALE: NTS

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1. Provide a copy of the zoning condition (SDR-xxxxx) upon approval for *Flood Control Section's* filing.
2. Provide a 48"x16" block wall opening at the southeast corner of the site where an existing iron fence being replaced by a CMU perimeter wall.

NOTE: Any future changes to the proposed design (or design assumptions) as outlined in the approved drainage study and attached preliminary grading plan which affect drainage must be addressed in a Drainage Study Amendment and accepted by the *City of Las Vegas Flood Control Section*. Additionally, conditional acceptance of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the *City of Las Vegas* reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

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END OF REMARKS

ays

T/R/S: T20S/R60E/15
AREA L-15



TRANSMITTAL

DATE: Aug 28, 2012

CIVIL

TO: City of Las Vegas – Flood Control
333 N. Rancho Drive
Las Vegas, NV 89106

ATTN: ALBERT SUNG

STRUCTURAL

MECHANICAL

PROJECT: EOC Logistics
PROJECT No: CN112246-004
PROJECT MGR: John Walker

VIA: Hand Deliver
FOR: Approval
COPIES TO:

ELECTRICAL

PLUMBING

FROM: Amber Dolce

ITEM	QTY	DESCRIPTION
CHECK	2	Wet Stamped Update #2 to Drainage Study with Plans
OTHER	1	Fee Memo

ENERGY
MODELING

COMMISSIONING

LEED
ADMINISTRATION

REMARKS:

Please accept the attached update to Drainage Study DS3812. Let us know if you have any questions or need additional information. Thanks!

Las Vegas

1635 Village Center
Circle, Suite 200
Las Vegas, NV 89134
(p) 702.933.7000
(f) 702.933.7001
800.933.7611

Irvine

2 Venture, Suite 200
Irvine, CA 92618
(p) 949.477.4001
(f) 949.477.4009

Phoenix

3115 S. Price Road
Chandler, AZ 85248
(p) 480.483.6111
(f) 480.483.6112

Salt Lake

9176 South 300 West
Suite 12
Sandy, UT 84070
(p) 801.352.2001
(f) 801.352.2006
wrightengineers.com
(p) 800.933.7611

COMPLETED BY: Amber Dolce
CALLED BY: _____
TIME: _____
DATE: _____

SIGNATURE: _____
PRINT NAME: _____
DATE: _____



LAND DEVELOPMENT TRANSFER MEMORANDUM

DATE: July 25, 2012

TO: Robert Welch (Drainage Studies) Albert Sang

FROM: Samuel Tolman AIA NCARB

CC: Dennis Moyer, Barbara Bumgarner, Westar Architects, Carolyn Levering, Patty Bargonza, Billie Jo Berlin, File

RE: Review Fee Funds Transfer

Please pay the Land Development Fees for this project using the following information:

Project Name: EOC Logistical Support Facility

Project Name from the Project Initiator.

Project Address: 1551 Sauer

or **Parcel Number(s):**

Service Org Number: 40211

SERVICER ORG. from the upper portion of Box #10 on the Project Initiator.

This is the org number of your project's funding source, for example, 40521 is the Park S fund org number. Do not use the PW section org number, nor your client such as Fire org number, nor the Requestor org number from the P.I., nor the Servicer org number from the lower half of the P.I.. Do not use a number that ends in 0.

Account Number: 810705 Building Remodel/Addition

From the City's chart of accounts: 810205 for new or rehab Parks, 810605 for new Building construction, 810705 for Building remodels or additions.

Work Authorization Number: WU8171

The W/A NO. from the Funding Source on the Project Initiator. Do not use the Internal labor billing number.

Land Development Fees: \$400

From the Land Development Plan Checker, Flood Control Inter-Office Memo to Land Development, or as otherwise provided.

Service Requested: Flood Control Study Review

Authorizing Individual: Samuel Tolman AIA NCARB

PW Project Manager's name.

Funding Department: CMO

Public Works, Parks, Recreation & Neighborhood Services, Detention & Enforcement, Fire & Rescue, etc. If multiple departments, list the department that controls the fund this transfer is drawn from.

Occupying/Programming/Operating Department: CMO

Detention & Enforcement, Fire & Rescue, etc. If multiple departments, list primary only.

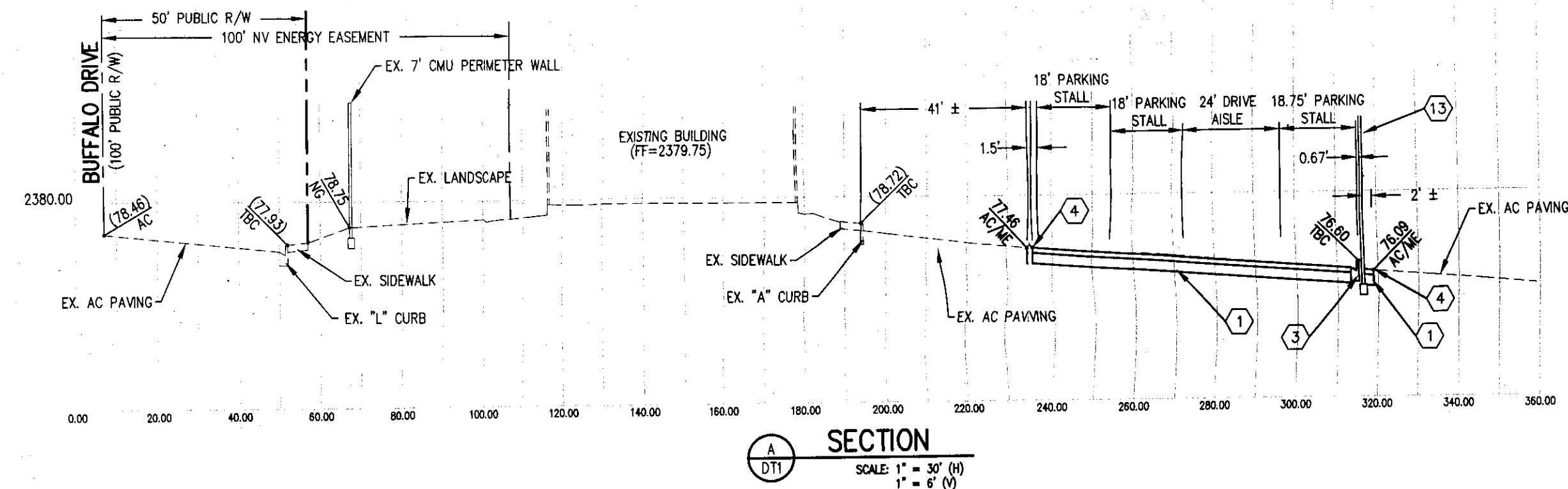
Thank you.

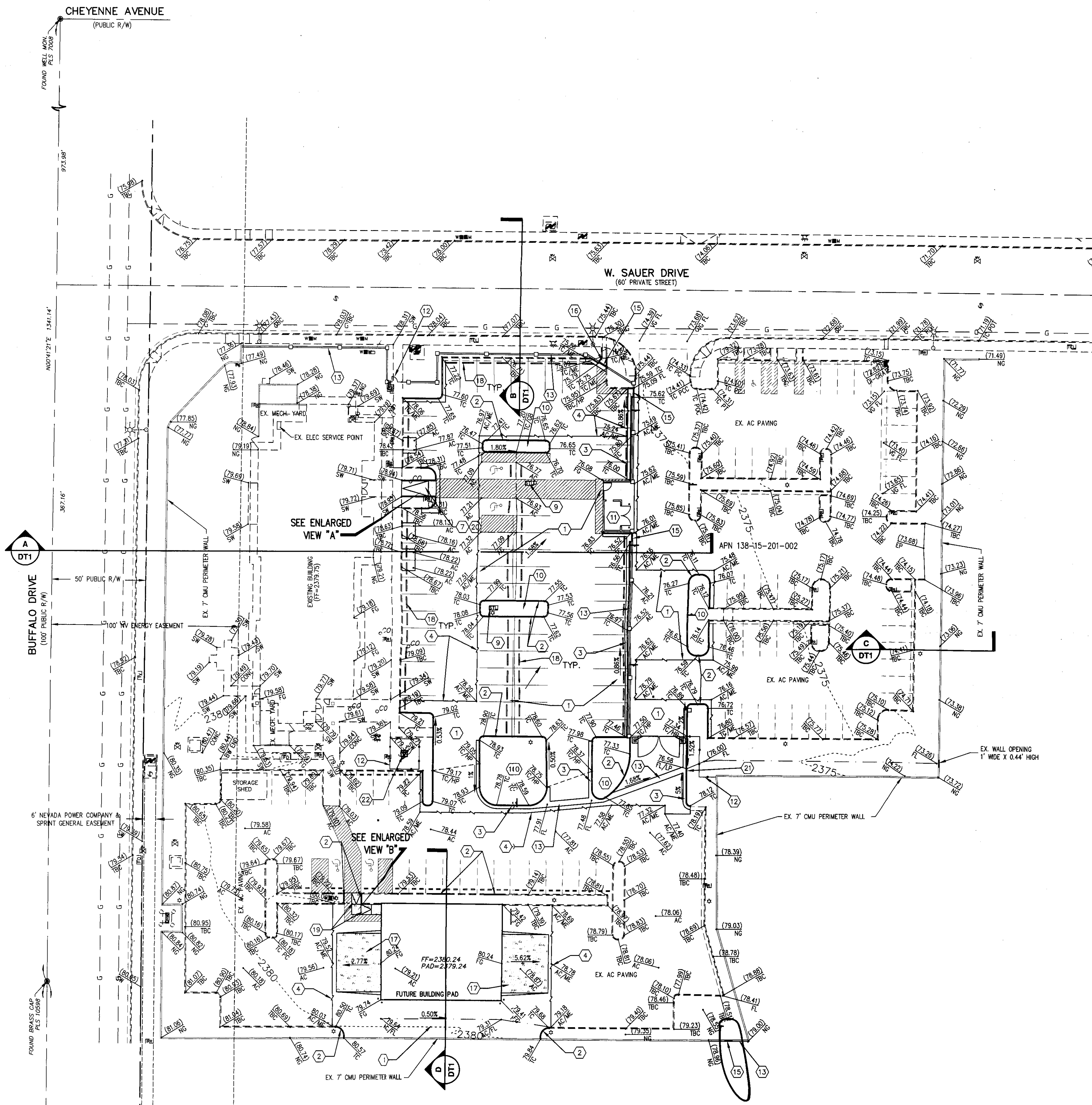
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT
SECTION
CITY OF LAS VEGAS
333 N. RANCHO DR., 9TH FLOOR
LAS VEGAS, NEVADA 89106

OFFICE 702.229.6272

TTY 702.386.9108

www.lasvegasnevada.gov

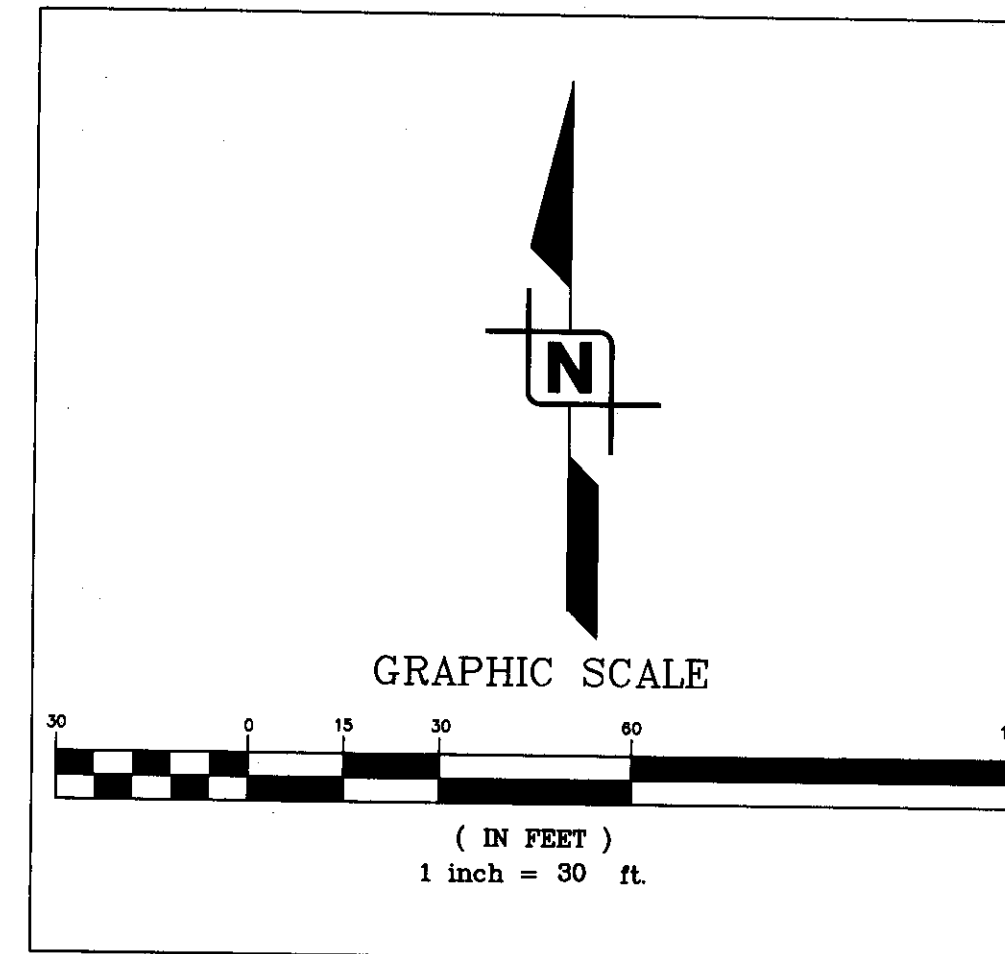
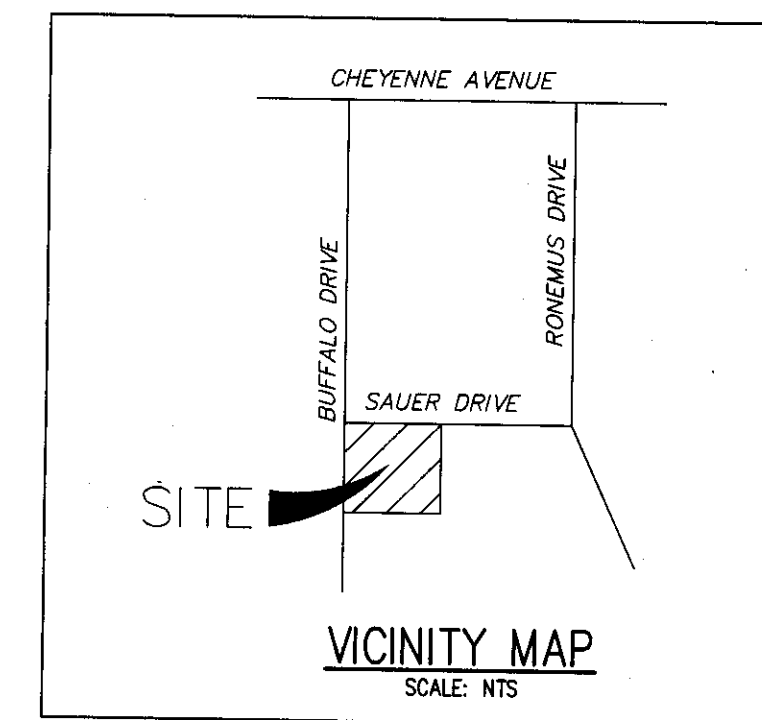
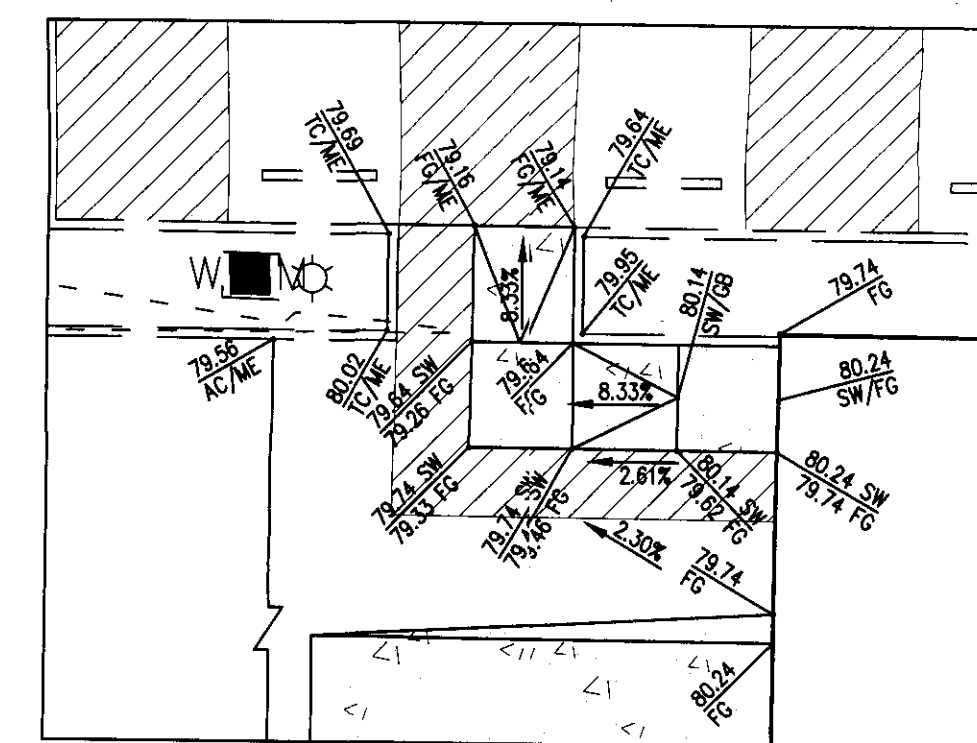
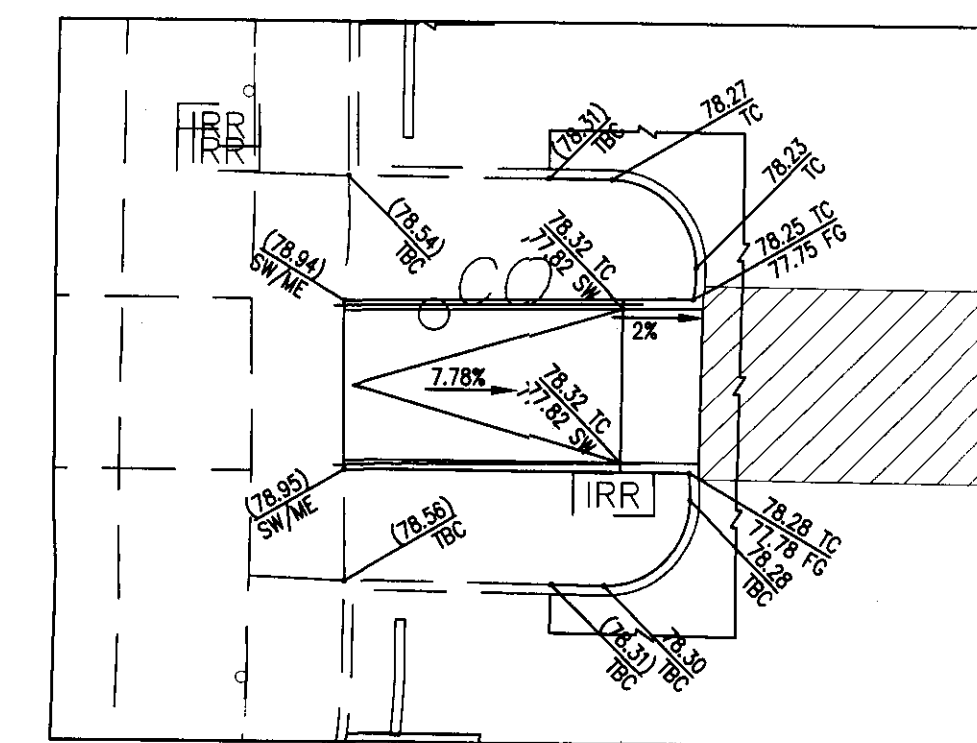




CONSTRUCTION NOTES:

1. INSTALL 3" AC PAVING OVER 11" TYPE II AGG. BASE COMPACTED TO SOILS REPORT RECOMMENDATIONS
2. CONSTRUCT ON-SITE "A" CURB PER SHEET DT1
3. INSTALL 1" TYPE CURB AND GUTTER PER CCAUSD #216
4. SAWCUT & MATCH TO EXISTING CONDITION
5. INSTALL BUMPER BLOCKS PER CCAUSD #238
6. CONSTRUCT CROSS GUTTER PER CCAUSD #228
7. HANDRAILS PER ARCHITECTURAL PLANS
8. INSTALL SIDEWALK PER CCAUSD #234
9. EXISTING UTILITY VAULT/PULLBOX TO BE PROTECTED AND RAISED TO GRADE
10. LANDSCAPE PLANTER AREA - SEE LANDSCAPE PLANS
11. CONSTRUCT TRASH ENCLOSURE PER ARCHITECTURAL PLANS
12. INSTALL WROUGHT IRON FENCE PER ARCHITECTURAL PLANS
13. INSTALL CMU PERIMETER WALL PER ARCHITECTURAL PLANS
14. INSTALL 3" CONCRETE VALLEY GUTTER PER SHEET DT1
15. INSTALL 48" X 16" BLOCK WALL OPENING PER SHEET DT1
16. CONSTRUCT FLOVE PER SHEET DT1
17. INSTALL 6" CONCRETE PAVING OVER 8" TYPE II AGG. BASE
18. INSTALL CONCRETE BUMPER BLOCKS PER CCAUSD #238
19. CONSTRUCT TYPE "A" SIDEWALK RAMP PER SHEET DT1
20. CONSTRUCT TYPE "B" SIDEWALK RAMP PER SHEET DT1
21. CONSTRUCT 3" WIDE DEEPRESSED CURB OPENING PER DETAIL DT1
22. ANTENNAE - BY OTHERS

NOTE:
ALL HANDICAP ACCESS ROUTES ARE AT
A MAXIMUM OF 5% DOWNSLOPE AND
2% CROSS SLOPE & 2% IN DIRECTION CHANGE.



LEGEND

- RIGHT-OF-WAY/PROPERTY LINE
- STREET CENTER LINE
- EXISTING BUILDING
- PROPOSED BUILDING
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- EXISTING EDGE OF A.C. PAVEMENT
- SIGHT VISIBILITY ZONE
NOTE: NOTHING OVER 24" IN HEIGHT ALLOWED IN SVZ EXCEPT TRAFFIC COURSE DEVICES
- EXISTING CMU WALL
- EXISTING 1' CONTOUR
- EXISTING 5' CONTOUR
- SECTION / DETAIL SYMBOL
- HC ACCESS ROUTE
- GRADE BREAK
- SLOPE & DIRECTION OF SLOPE
- PROPOSED ELEVATION
- EXISTING ELEVATION

FLOOD ZONE NOTE:

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBER 325276 C2135 F, CITY OF LAS VEGAS, CLARK COUNTY NEVADA, DATED NOVEMBER 16, 2011, THE SITE LIES WITHIN A FEMA DESIGNATED ZONE "X". A ZONE "X" IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

LEGAL DESCRIPTION

APN 138-15-201-002;
BEING A PORTION OF THE NORTHWEST CORNER OF SECTION 15, TOWNSHIP 26 SOUTH, RANGE 80 EAST, M.D.B. & M.

BASIS OF BEARING

THE BASIS OF BEARINGS IS GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM, LAS VEGAS ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

BENCHMARK

5/5/00/5/00
RIVET AND PLATE IN TOP OF CURB AT SOUTHEAST CORNER OF CHEYENNE AND BUFFALO.
NAVD88 ELEVATION: 2367.99 (US SURVEY FEET)
721.761 (METERS)

DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND 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 LOCATION. ALL DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER.
CALL BEFORE YOU DIG: 1-800-227-2600.

GEOTECHNICAL:

GEOTECHNICAL EVALUATION PREPARED BY:
GRISHAM CONSULTING SERVICES
PROJECT NO. GS-10038
DATED AUGUST 2, 2012

ENGINEER'S CERTIFICATION

I, JOHN M. WALKER, HEREBY CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS.

JOHN M. WALKER, P.E.

DATE

WRIGHT
engineers
1635 VILLAGE CENTER CIRCLE, SUITE 200
LAS VEGAS, NV 89111
P 702.933.7000 / F 702.933.7001
WWW.WRIGHTENGINEERS.COM
LAS VEGAS - IRVINE - PHOENIX - SACRAMENTO

REVISION	DATE	BY

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
485 S. MAIN STREET
LAS VEGAS, NV 89101
TEL (702) 228-6001 FAX (702) 228-6001
CHECK NO. 1
CHECK NO. 2
DATE: 10-21-10
DATE: 10-21-10

CITY OF LAS VEGAS
EMERGENCY OPERATIONS CENTER
GRADING PLAN - PHASE 1

DATE: 10-21-10
DRAWN BY: RDC
PROJECT MGR:
PROJECT NO.: 112246
SCALE: 1"=30'
JOHN M. WALKER
P.E.
06/30/14
CIVIL

This grading plan is a part of drainage study #4564, which was received on 8/28/12 and approved on 8/30/12. Page 1 of 2