

DS #: 4523

APN: 137-25-411-001

PROJECT: DESERT SPRINGS UNITED METHODIST CHURCH — UPDATE #2

SUBMITTAL: 3RD

SCANNED BY/DATE: _____

CHECKED BY/DATE: _____





CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM		DATE: May 17, 2011
TO: Land Development Services Department of Public Works		FROM: Albert Sunfg, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT: Drainage Study for: Desert Springs United Methodist Church – Update #2		COPIES TO: Wright One Source
Cross Streets:	NEC of Pavilion Center Dr. & Greenmoor Ln.	Church Methodist Desert Springs
File Number:	F:\Depot\DSMemos\DS4523B.doc	Bart Anderson, P.E., DevCo
Parcel Number:	137-25-411-001	
Zoning Action:	CRG-40699	
FEMA Flood Zone	YES	NO X
Proposed Storm Drain	YES	NO X

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Transaction #
1 st Submittal	3/1/2011	3/14/2011	Not Approved	\$400.00	163651: \$400
2 nd Submittal & Supplement	4/13/2011 & 5/11/2011	5/17/2011	See Comments Below	\$400.00	166521: \$400
TOTAL FEES (LDDRS):				\$800.00	----

REMARKS:

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.

In an effort to increase administrative efficiency, the City of Las Vegas Public Works will be requiring all soils report, drainage study and traffic impact analysis submittals to be accompanied by an electronic copy of the submittal. Electronic documents must be submitted with one original hard copy of the study. Electronic documents should be on a universal computer-readable digital output replicating your submittal to be used for archival or display purposes. This may be more than one file if necessary. An Indexed Portable Document Format (PDF) or Print Ready CAD file formats with a minimum of 300dpi are the desired formats, but provided it is a high quality digitized replication of the submittal, other formats may be acceptable. If figures are in color, they must be scanned in color and saved as a separate file. The new submittal requirements will become effective on July 1, 2011. If there are any questions regarding these new requirements, please contact Robert Welch in the Flood Section at (702) 229-2177 or Rick Schroder in Traffic Engineering at (702) 229-6327.

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/R59E/25
AREA K-25

WRIGHT ENGINEERS

Rec'd: 5/11/11

DS 4523

K-25

Supp. Info.

N/C

SUPPLEMENT TO
ADDENDUM #1 OF
UPDATE #2 TO THE
TECHNICAL DRAINAGE STUDY
FOR
DESERT SPRINGS UNITED
METHODIST CHURCH

CITY OF LAS VEGAS

May 11, 2011



PREPARED FOR:

JOSEPH N. BRANCA ARCHITECT
2821 CHANNEL BAY DRIVE
LAS VEGAS, NV 89127



May 11, 2011

CIVIL
STRUCTURAL
MECHANICAL
ELECTRICAL
PLUMBING
SURVEYING
PLANNING
LEED

Albert Sung
City of Las Vegas Public Works
731 S. 4th Street
Las Vegas, NV 89101

RE: SUPPLEMENT TO ADDENDUM #1 TO UPDATE #2 TO THE TECHNICAL DRAINAGE STUDY FOR DESERT SPRING UNITED METHODIST CHURCH. AKA DSUMC SANCTUARY EXPANSION
Job No. CN100298
CLV DS4523

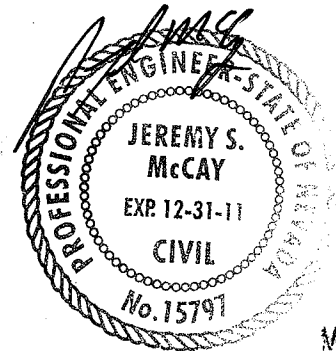
Dear Mr. Sung:

We have received verbal comments from the City of Las Vegas indicating that the proposed valley gutter on the north side of the building is unacceptable since it is directly adjacent to the building. To resolve this concern the valley gutter has been shifted north; this increased the required height of water proofing required for the building. Revised calculations and plans have been provided in the Appendix.

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

Sincerely,
Wright Engineers,

Robert D. Hansen, E.I.
Hydrologic/Hydraulic Services



MAY 11 2011

Jeremy S. McCay, P.E.
Principal

7425 Peak Drive
Las Vegas, NV 89128
(p) 702.933.7000
(f) 702.933.7001
800.933.7611
wrightengineers.com

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

DRAINAGE STUDY INFORMATION FORM

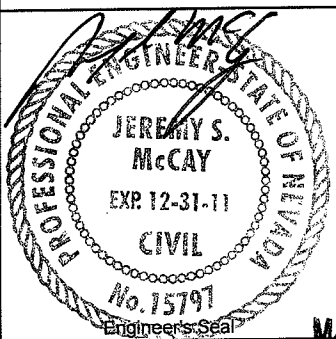
Name of Development: DSUMC Sanctuary Expansion Date: May 11, 2011
 Location of Development: a) Descriptive (Cross Streets) North/South: N Pavilion Center Dr
 East/West: Greenmore Ln
 b) Section: 25 Township: 20 S Range: 59 E
 c) APN: 137-25-411-001

Name of Owner: Church Methodist Desert Spring (Joseph N. Branca Architect)
 Telephone No.: (702) 308-1603 Facsimile No.: (702) 256-3002 Email Address: joeb@cox.net
 Address: 2821 Channel Bay Drive Las Vegas NV 89127
 Contact Person Name: Rob Hansen Telephone No.: (702) 933-7000
 E-mail Address: rhansen@wrightengineers.com
 Firm: Wright Engineers
 Address: 7425 Peak Drive, Las Vegas, NV 89128

Type of Land Development/Land Disturbance Process:

- | | | |
|---|---|---|
| <input type="checkbox"/> Rezoning | <input type="checkbox"/> Subdivision Map | <input type="checkbox"/> Clearing and Grading Only |
| <input type="checkbox"/> Parcel Map | <input type="checkbox"/> Planned Unit Development | <input type="checkbox"/> Other (Please specify below) |
| <input type="checkbox"/> Large Parcel Map | <input checked="" type="checkbox"/> Building Permit | |

- Total Owned Land Area: At Site: 4.08 +/- ac Being Developed/Disturbed: 2.00 +/- 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 (Church Expansion)
- Approximate upstream land area which drains to the subject site? 30 +/- ac
- Has the site drainage been evaluated in the past? YES NO If yes, please identify documentation:
1. TDS for DSUMC (DS2524) - Original study for the project site.
2. Update #1 to TDS for DSUMC a.k.a Classroom Expansion @ DSUMC (DS3988) - Added a classroom building to the site.
- If known, please briefly identify the proposed discharge point(s) of runoff from the site:
Runoff from the site travels southeast to Greenmoor Lane.
- 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: CN100298

STANDARD FORM 1

MAY 11 2011

Worksheet for A rev

Results

Velocity Head	0.10	ft
Specific Energy	0.24	ft
Froude Number	2.09	
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	0.14	ft
Critical Depth	0.17	ft
Channel Slope	0.09160	ft/ft
Critical Slope	0.01922	ft/ft

Cross Section for A_rev

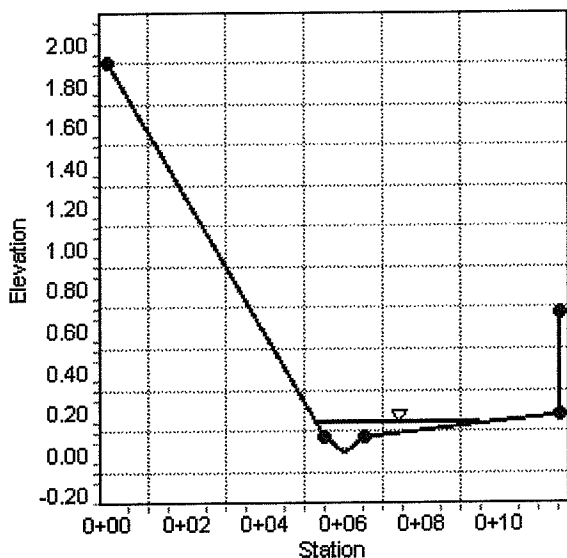
Project Description

Friction Method Manning Formula
Solve For Normal Depth

Input Data

Channel Slope 9.16000 %
Normal Depth 0.14 ft
Discharge 0.50 ft³/s

Cross Section Image





TRANSMITTAL

DATE: May 11, 2011

CIVIL
STRUCTURAL
MECHANICAL
ELECTRICAL
PLUMBING
ENERGY
MODELING
COMMISSIONING
LEED
ADMINISTRATION

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

ATTN: ALBERT SUNG

PROJECT: Desert Spring United Methodist Church
PROJECT No: CN100298-002
PROJECT MGR: Jeremy S. McCay

VIA: Hand Deliver
FOR: Approval
COPIES TO:

FROM: Amber Dolce

ITEM	QTY	DESCRIPTION
OTHER	1	Wet Stamped Supplement to Addendum #1

REMARKS: Albert, please accept the attached Supplement to Addendum #1 for DSUMC, DS4523. Let us know if you need anything additional.

Las Vegas
7425 Peak Drive
Las Vegas, NV 89128
(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: _____



TRANSMITTAL

DATE: May 11, 2011

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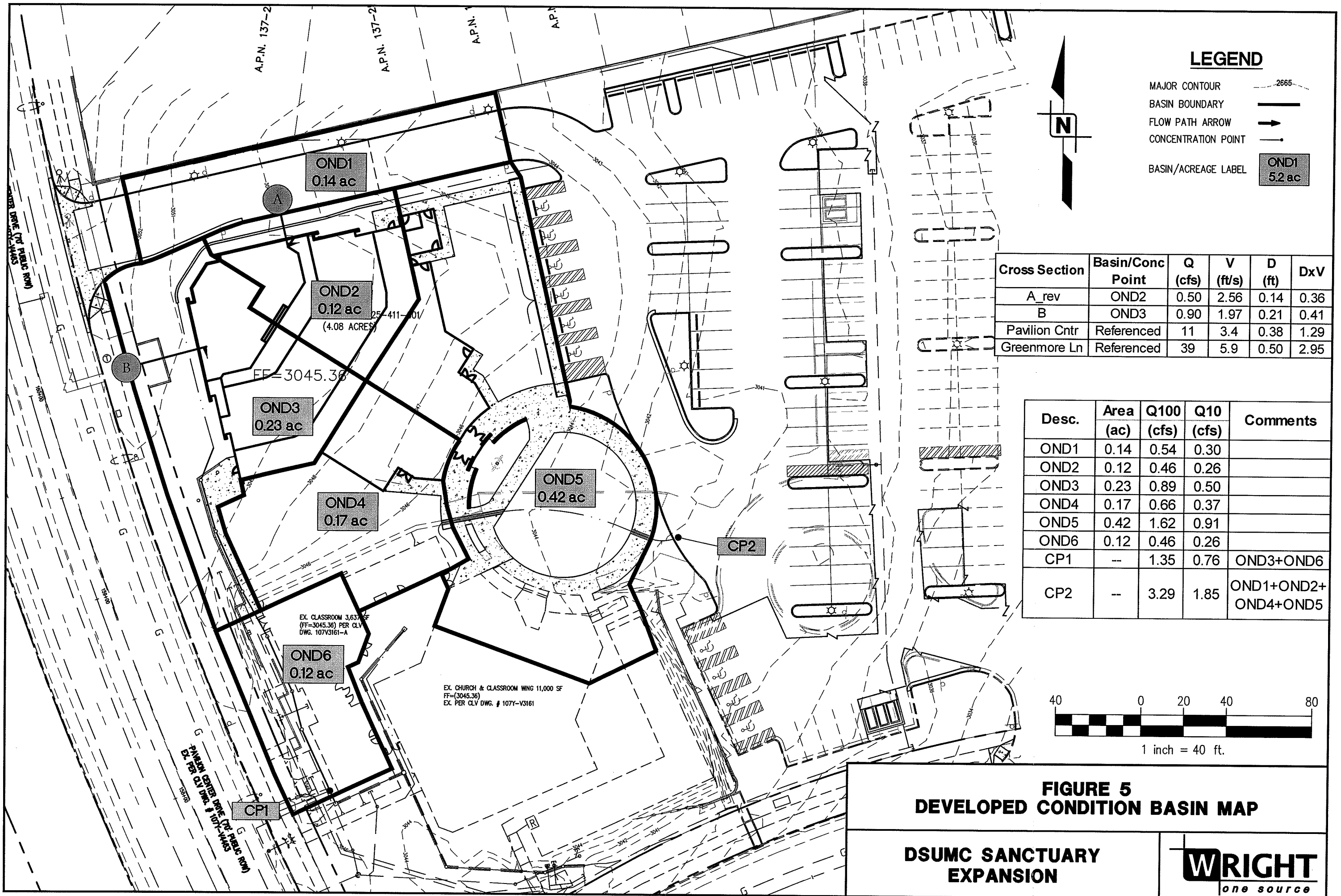
Irvine
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COMPLETED BY: Amber Dolce
CALLED BY: _____
TIME: _____
DATE: _____

SIGNATURE: _____
PRINT NAME: _____
DATE: _____



**FIGURE 5
DEVELOPED CONDITION BASIN MAP**

**DSUMC SANCTUARY
EXPANSION**

