

DS #: 4541

APN: 125-09-401-033

PROJECT: Gilcrease Nature Sanctuary

SUBMITTAL: CCRFCO

SCANNED BY/DATE:

CHECKED BY/DATE:



CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM

DATE:

July 18, 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:

Gilcrease Nature Sanctuary

COPIES TO:

Hauntec

Cross Streets: SEC of Al Carrison Way & Racel Street

Gilcrease Nature Sanctuary

File Number: F:\Depot\DSMemos\DS4541D.doc

Bart Anderson, P.E., DevCo

Parcel Number: 125-09-401-033

CCRFC

Zoning Action: SDR-43981; ZON-43982 & GPA-43983

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 #
1 st Submittal	12/21/2011	1/9/2012	Not Approved	\$400.00	269514: \$400
2 nd Submittal	2/28/2012	3/8/2012	Conditional Approval	\$400.00	276548: \$400
3 rd Submittal	6/6/2012	6/19/2012	CCRFC Comments	N/C	N/C
CCRFC	7/12/2012	7/18/2012	Concurrence Recv'd	N/C	N/C
			TOTAL FEES (LDDRS):	\$800.00	----

REMARKS:

3rd Submittal: Supplement to address CCRFC comments

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.

1. The site is adjacent to the jurisdiction of the County of Clark. The engineer must coordinate with *Clark County Department of Public Works (CCPW)* and incorporate any concerns for boundary conditions along the eastern and western borders. CCPW concurrence is required prior to final acceptance of the study.
2. Provide a 5'-Modified Type CM drop inlet at each of the upstream and downstream end of the improvement in *Racel Street*.

In an effort to increase administrative efficiency, the City of Las Vegas Public Works Department requires all soil reports, drainage studies 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 requirement is effective on **July 1, 2011**. If there are any questions regarding these new requirements, please contact Albert Sung in the Flood Section at (702) 229-2001 or Rick Schroder in Traffic Engineering at (702) 229-6327.

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.

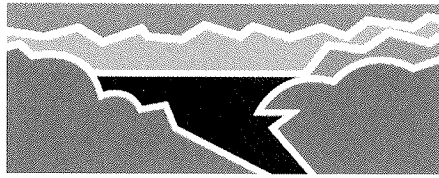
END OF REMARKS

ays

T/R/S: T19S/R60E/09

AREA G-09

REGIONAL FLOOD
CONTROL DISTRICT



Rec'd: 7/12/12
DS 4541
G-09
N/C

Gale Wm. Fraser, II, P.E.
General Manager/Chief
Engineer

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Steven D. Ross
City of Las Vegas

Dr. Lois Tarkanian
City of Las Vegas

Mayor Roger Tobler
City of Boulder City

June 28, 2012

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

**DISTRICT CONCURRENCE: GILCREASE NATURE SANCTUARY
(DS 4541A) (RFCD No. 12-8044)**

Dear Mr. Kwon:

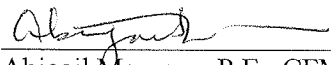
Clark County Regional Flood Control District (District) reviewed Technical Drainage Study dated December 8, 2011, Supplement No. 1 dated March 19, 2012, and Supplement No. 2 dated June 21, 2012 for above-mentioned project as submitted by HAUNTEC CIVIL ENGINEERING. In addition, District is in receipt of the Conditional Letter of Acceptance from City of Las Vegas dated June 19, 2012.

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

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 HAUNTEC CIVIL ENGINEERING 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.

GALE WM. FRASER, II, P.E.
General Manager/Chief Engineer

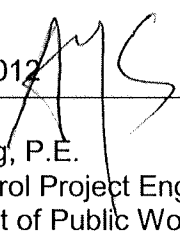
BY: 
Abigail Mayrena, P.E., CFM
Senior Engineer


Andrew R. Trelease, P.E., CFM
Principal Civil Engineer

AM:ART:sa

c: Joe Haun, P.E., Hauntec Civil Engineering

P:\Letters and Memos\Local Drainage\Land Development & Drainage\2012\L-12-8044.concurrence.doc

CITY OF LAS VEGAS		DATE:
INTER-OFFICE MEMORANDUM		June 19, 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:
	Gilcrease Nature Sanctuary	Hauntec
Cross Streets:	SEC of Al Carrison Way & Racel Street	Gilcrease Nature Sanctuary
File Number:	F:\Depot\DSMemos\DS4541C.doc	Bart Anderson, P.E., DevCo
Parcel Number:	125-09-401-033	CCRFCD
Zoning Action:	SDR-43981; ZON-43982 & GPA-43983	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 #
1 st Submittal	12/21/2011	1/9/2012	Not Approved	\$400.00	269514: \$400
2 nd Submittal	2/28/2012	3/8/2012	Conditional Approval	\$400.00	276548: \$400
3 rd Submittal	6/6/2012	6/19/2012	CCRFCD Comments	N/C	N/C
			TOTAL FEES (LDDRS):	\$800.00	----

REMARKS:

3rd Submittal: Supplement to address CCRFCD comments

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:
X	is conditionally approved subject to Clark County Regional Flood Control District concurrence.
X	is conditionally approved subject to Clark County Public Works Department concurrence.

1. **This drainage study is acceptable in concept**; however, *City of Las Vegas* will not formally accept the study until the *Clark County Regional Flood Control District* (CCRFCD) has issued a letter of concurrence. The Engineer should contact the CCRFCD to confirm that they have begun their review.
2. The site is also adjacent to the jurisdiction of the County of Clark. The engineer must coordinate with *Clark County Department of Public Works* (CCPW) and incorporate any concerns for boundary conditions along the eastern and western borders. CCPW concurrence is required prior to final acceptance of the study.
3. Provide a 5'-Modified Type CM drop inlet at each of the upstream and downstream end of the improvement in *Racel Street*.

In an effort to increase administrative efficiency, the City of Las Vegas Public Works Department requires all soil reports, drainage studies 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 requirement is effective on **July 1, 2011**. If there are any questions regarding these new requirements, please contact Albert Sung in the Flood Section at (702) 229-2001 or Rick Schroder in Traffic Engineering at (702) 229-6327.

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: T19S/R60E/09
AREA G-09

HAUNTEC
Civil Engineering Services

2721 Ironside Drive
Las Vegas, Nevada 89108
Phone: (702) 219-5785

Reed: 6/6/12

DS 4541

G-09

N/C

June 6, 2012

City of Las Vegas
Department of Public Works
Land Development Services
333 North Rancho Drive
Las Vegas, Nevada 89106

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

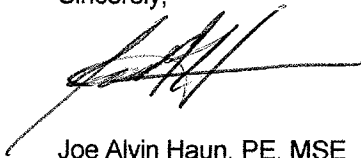
Subject: Supplement to the Technical Drainage Study for Gilcrease Nature Sanctuary
(SDR-43981; ZON-43982 & GPA-43983)
(APN 125-09-401-033) (DS4541)

Dear Mr. Sung:

This supplement to the Technical Drainage Study for Gilcrease Nature Sanctuary is provided in response to the Clark County Regional Flood Control District request for Structural Details of the Storm Drain lateral connection to the existing Storm Drain in Racel Street. A note has been added to Detail O on Sheet C2 calling out Detail P on the same sheet. Detail P has been added to sheet C2 detailing the structural connection between the proposed 18" storm drain lateral and the existing storm drain junction box in Racel Street. Structural calculations are not necessary for this design.

Request a second Conditional Approval of the design as shown on the attached sheets C1 and C2. Once receiving the City of Las Vegas Conditional Approval, copies of the package will be forwarded to Clark County Regional Flood Control District for their approval of the design. If you have any questions or need additional information, please contact me.

Sincerely,

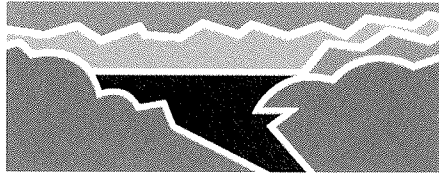


Joe Alvin Haun, PE, MSE
HAUNTEC Civil Engineering Services



6/6/12

REGIONAL FLOOD CONTROL DISTRICT



Rec'd. 3/28/12
DS4541

G-09

Gale Wm. Fraser, II, P.E.
General Manager/Chief
Engineer

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City of Las Vegas

Dr. Lois Tarkanian
City of Las Vegas

Mayor Roger Tobler
City of Boulder City

March 21, 2012

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

DISTRICT COMMENT(S):

**GILCREASE NATURE SANCTUARY
(DS 4541A) (RFCD No. 12-8044)**

Dear Mr. Kwon:

Clark County Regional Flood Control District (District) reviewed Technical Drainage Study dated December 8, 2011, and Supplement No. 1 dated March 19, 2012 for above-mentioned project as submitted by HAUNTEC CIVIL ENGINEERING. In addition, District is in receipt of the Conditional Letter of Acceptance from City of Las Vegas dated March 8, 2012.

District has the following comment(s): Sta: 21+32.41: Provide a structural connection detail for the proposed 18-inch storm drain lateral to the existing manhole.

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*.

The consultant must be advised to submit any revisions to the Technical Drainage Study and Improvement Plans to City of Las Vegas for review/re-approval. District review of any such revisions will commence upon City of Las Vegas's acceptance.

Please be aware that as additional information becomes available and/or restudies of Flood Insurance Studies are performed, information submitted by HAUNTEC CIVIL ENGINEERING 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.

GALE WM. FRASER, II, P.E.
General Manager/Chief Engineer

BY:


Abigail Mayrena, P.E., CFM
Senior Engineer


Andrew R. Trelease, P.E., CFM
Principal Civil Engineer

AM:ART:sa

c: Joe Haun, P.E., Hauntec Civil Engineering

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2721 Ironside Drive
Las Vegas, Nevada 89108
(702) 219-5785



Transmittal

To: Albert Sung, P.E. **From:** Joe Alvin Haun, PE
City of Las Vegas – Department of Public
Company: Works, Land Development Services **Date:** June 6, 2012

Phone: (702) 229-2001

Re: Supplement to the Technical Drainage Study for Gilcrease Nature Sanctuary
(SDR-43981, ZON-43982, & GPA-43983)
(APN 125-09-401-033) (DS4541A)

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☒ **As Requested** ☐ **Please Recycle**

● **Comments:**

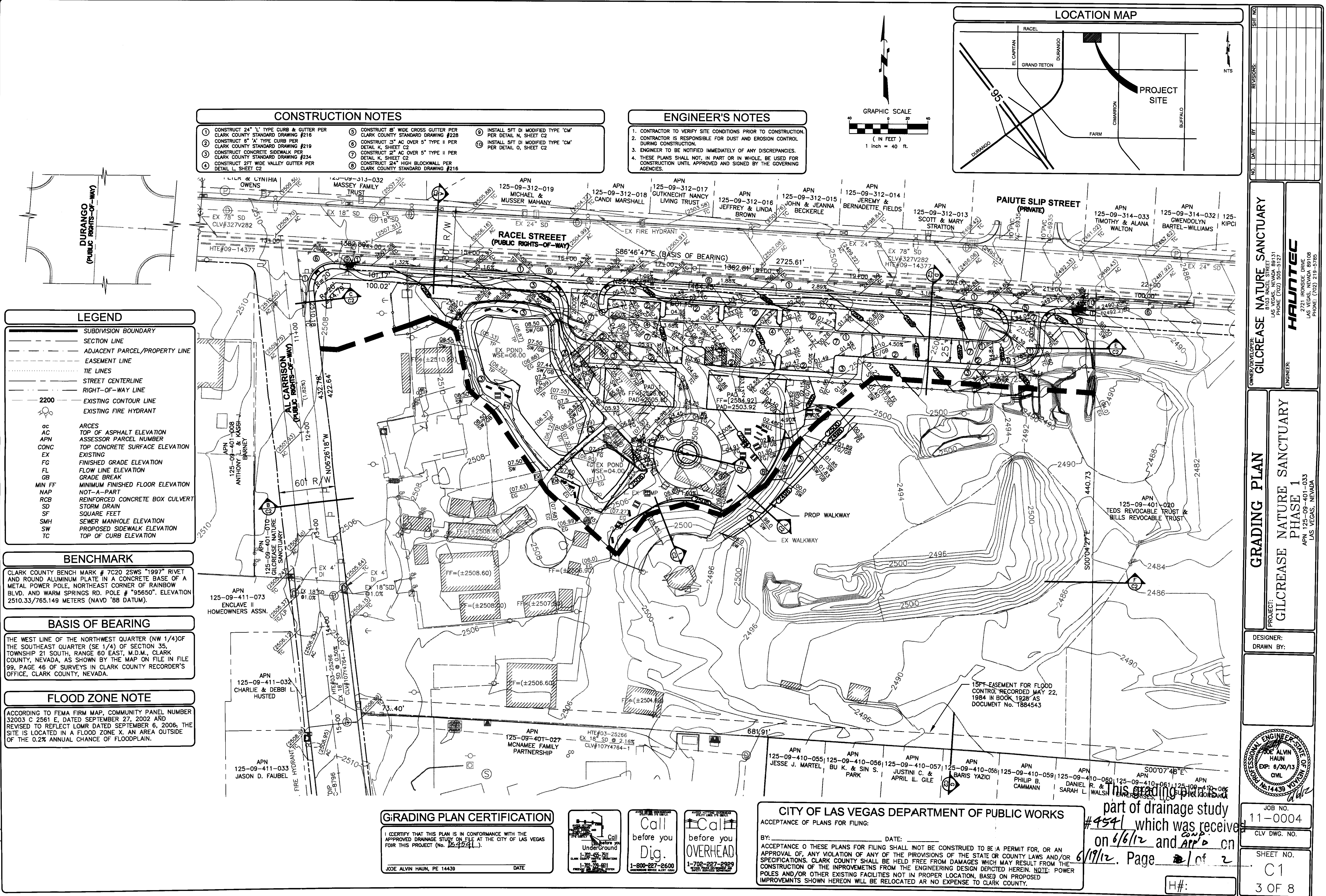
Clark County Regional Flood Control District has requested that Grading Detail Sheet include structural details for the connection of the proposed Storm Drain Lateral into the existing Storm Drain in Racel Street. The following items are attached:

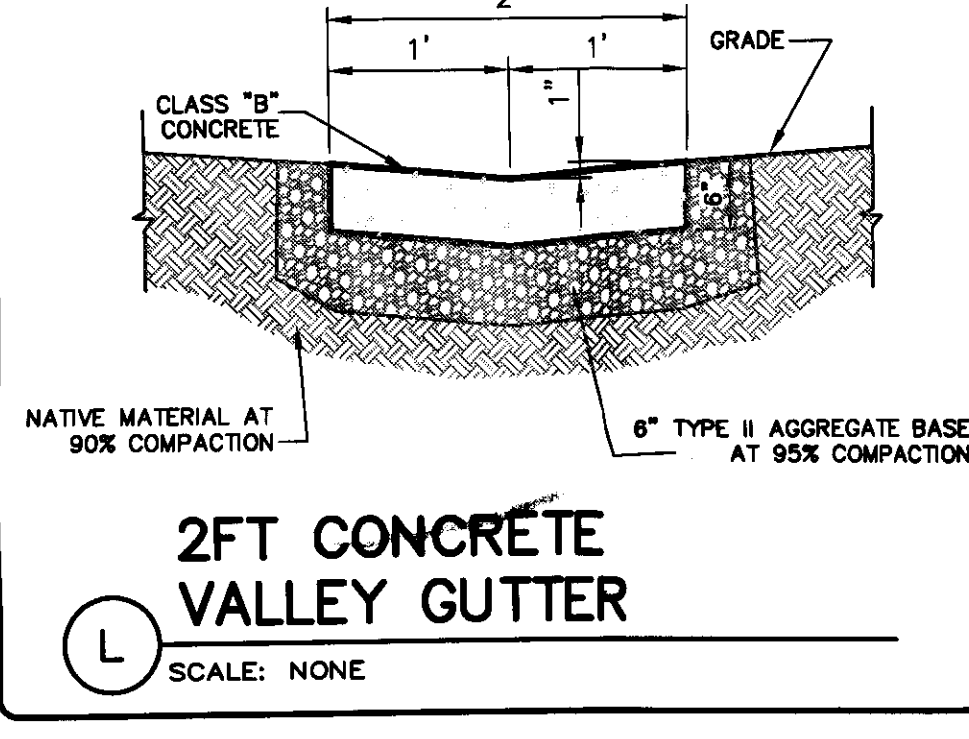
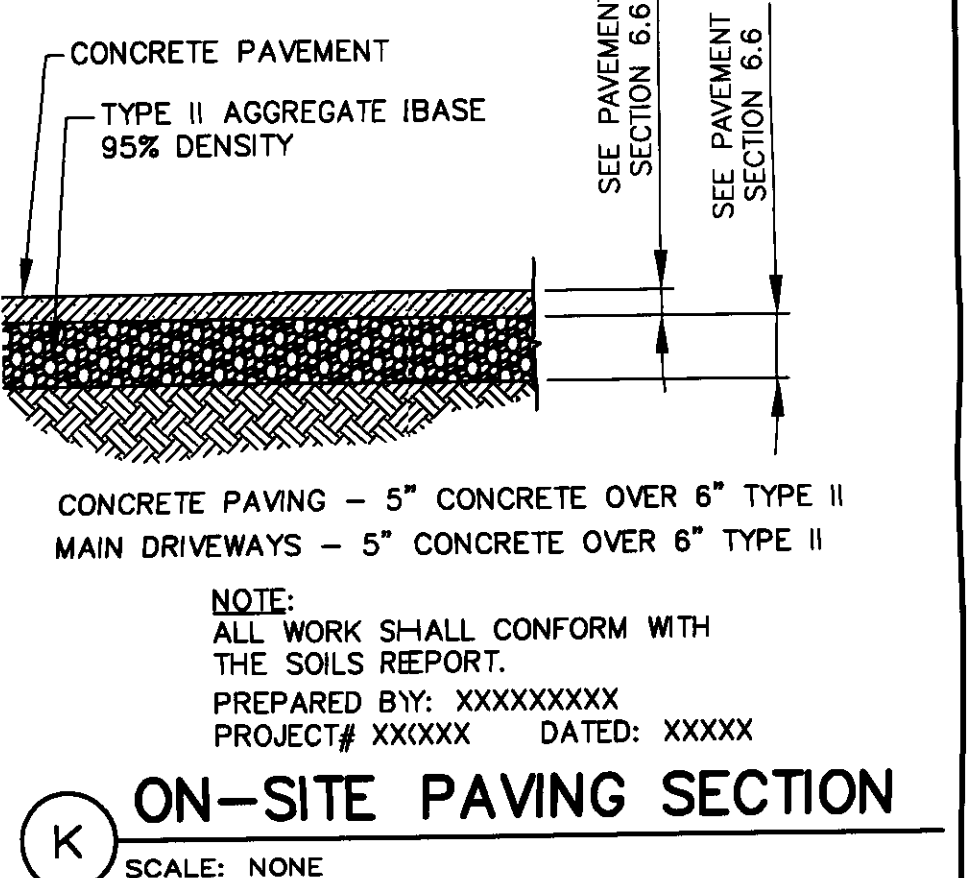
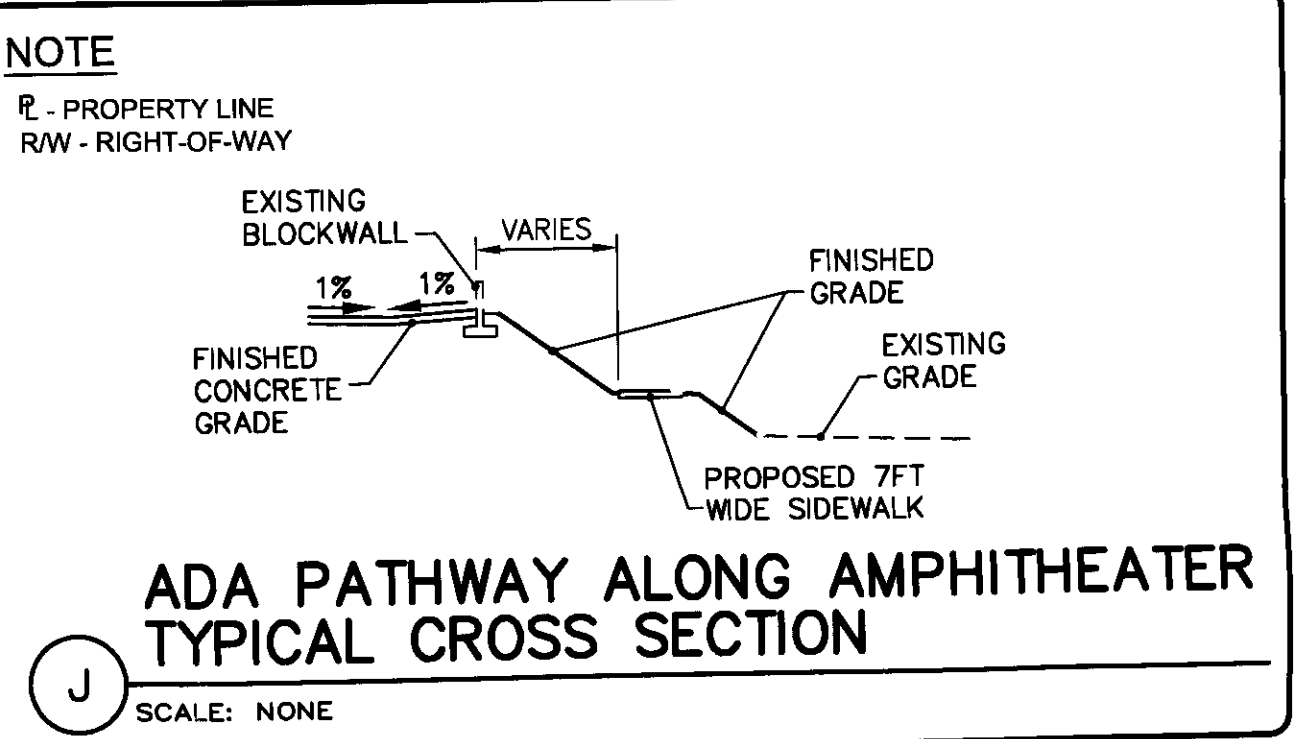
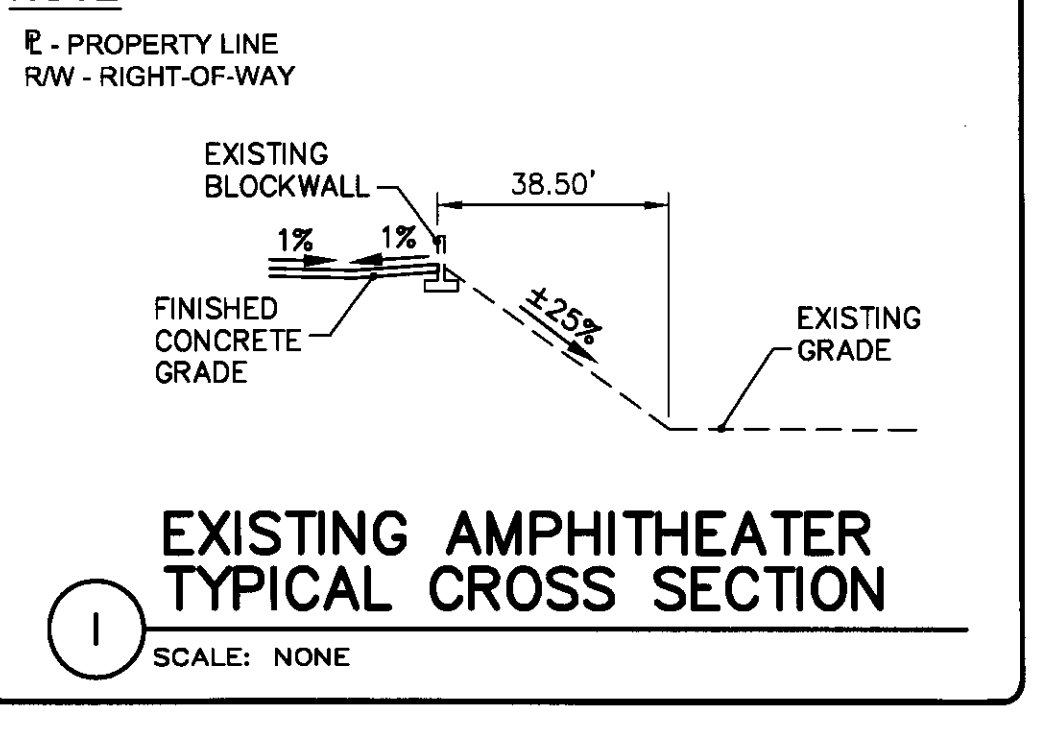
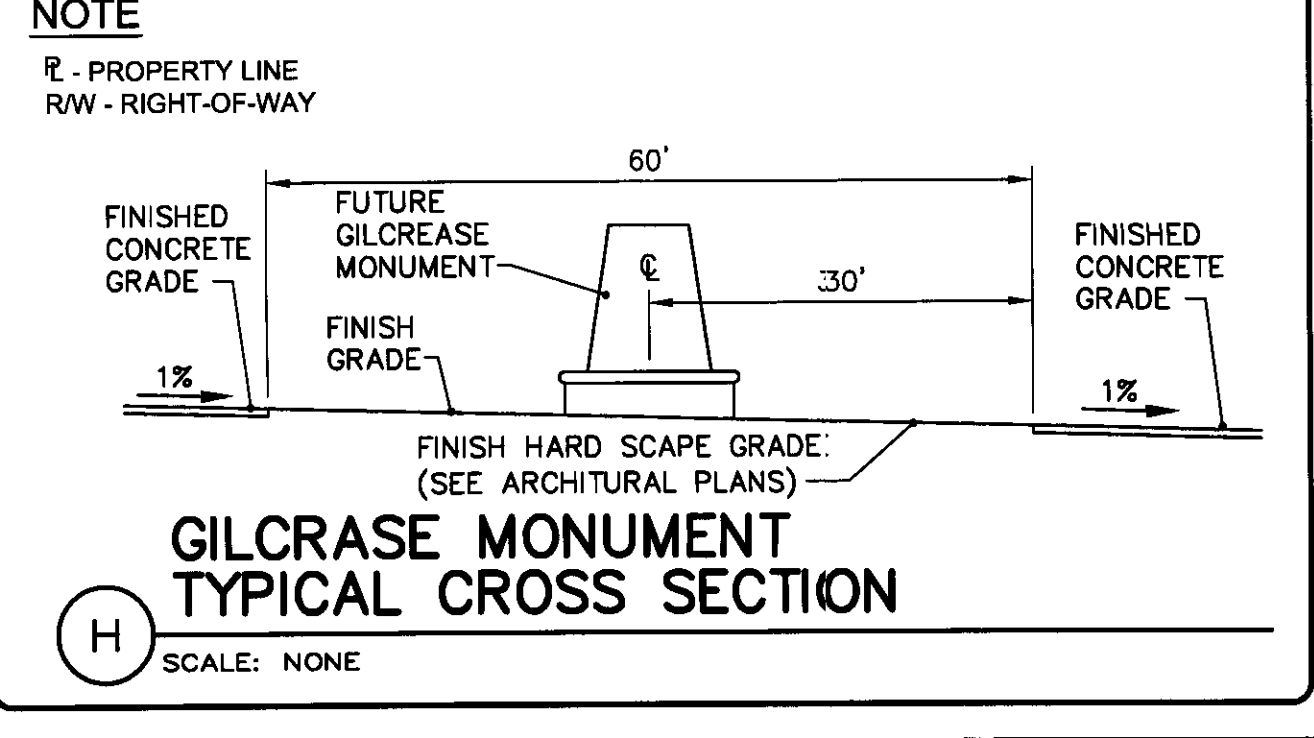
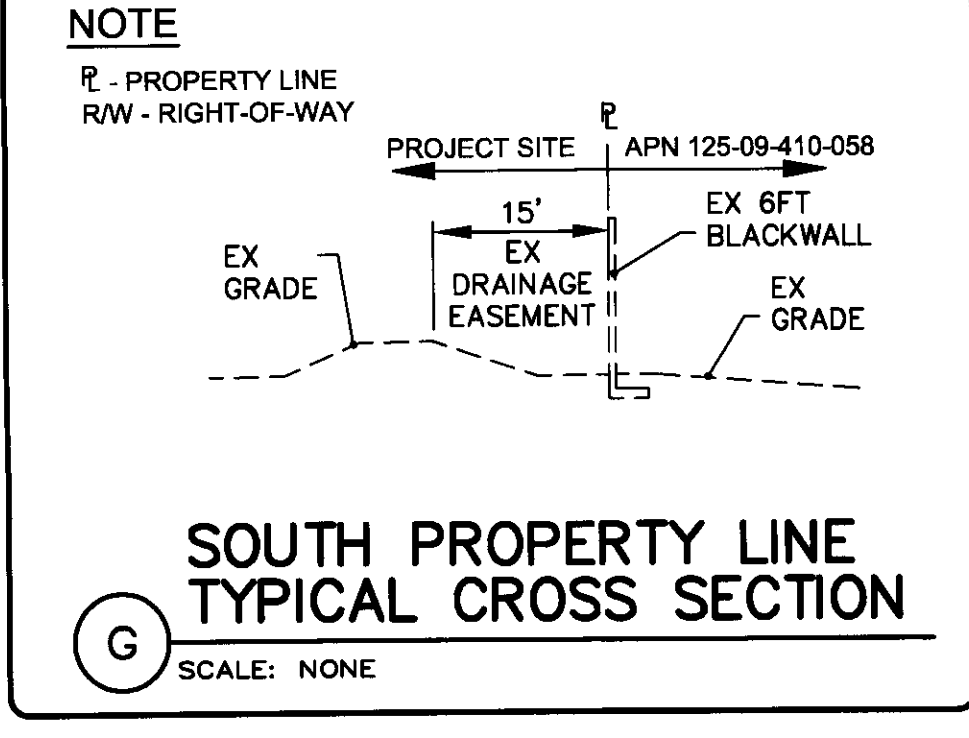
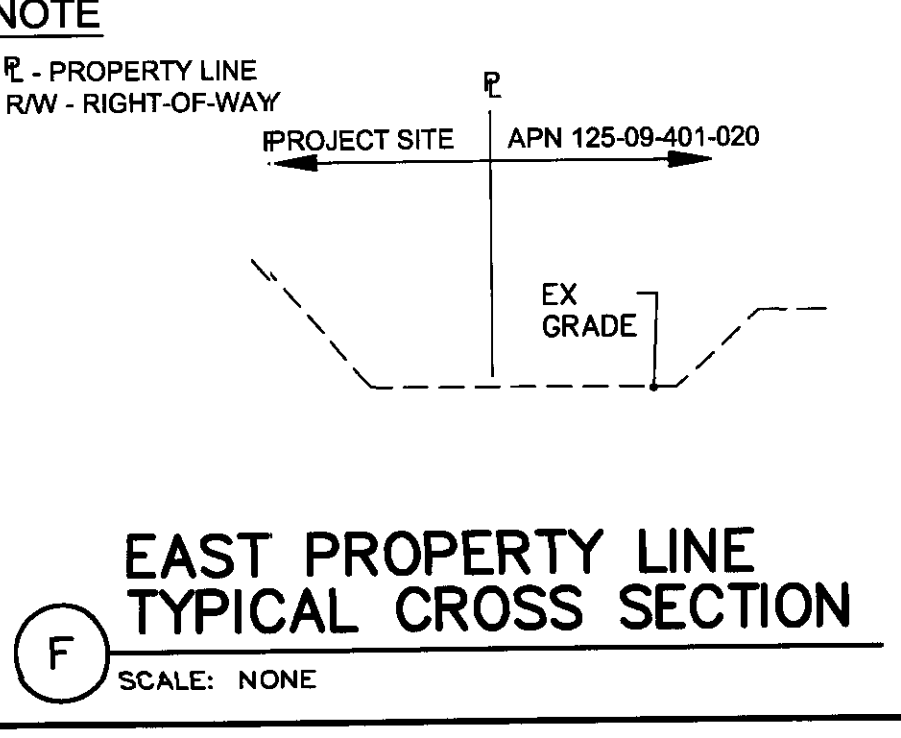
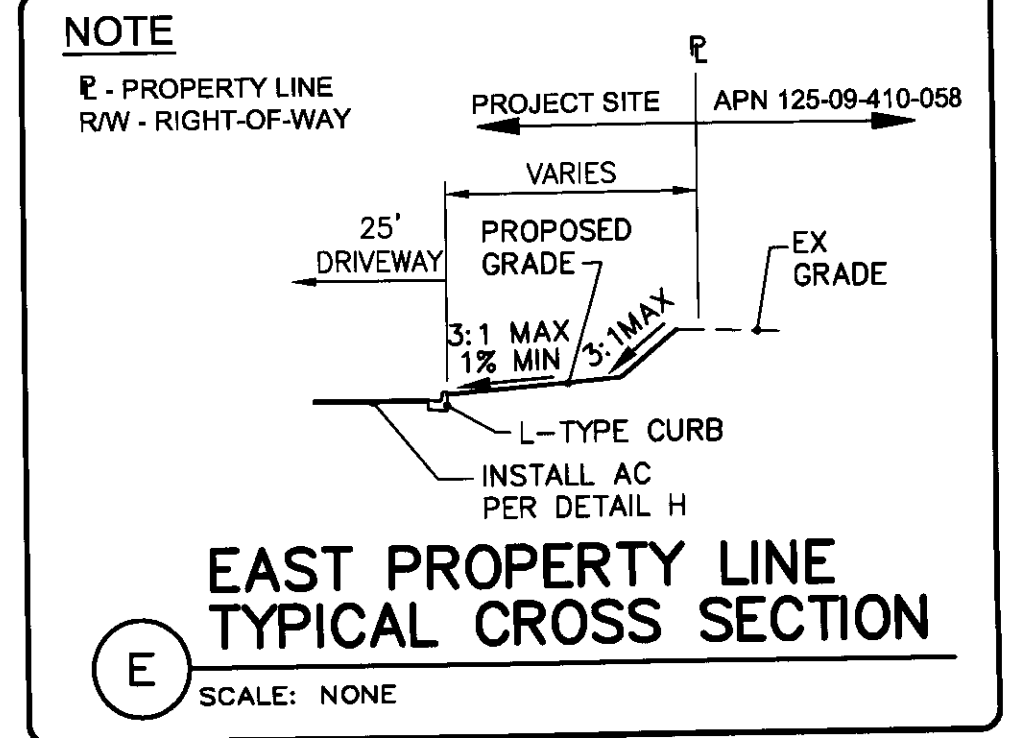
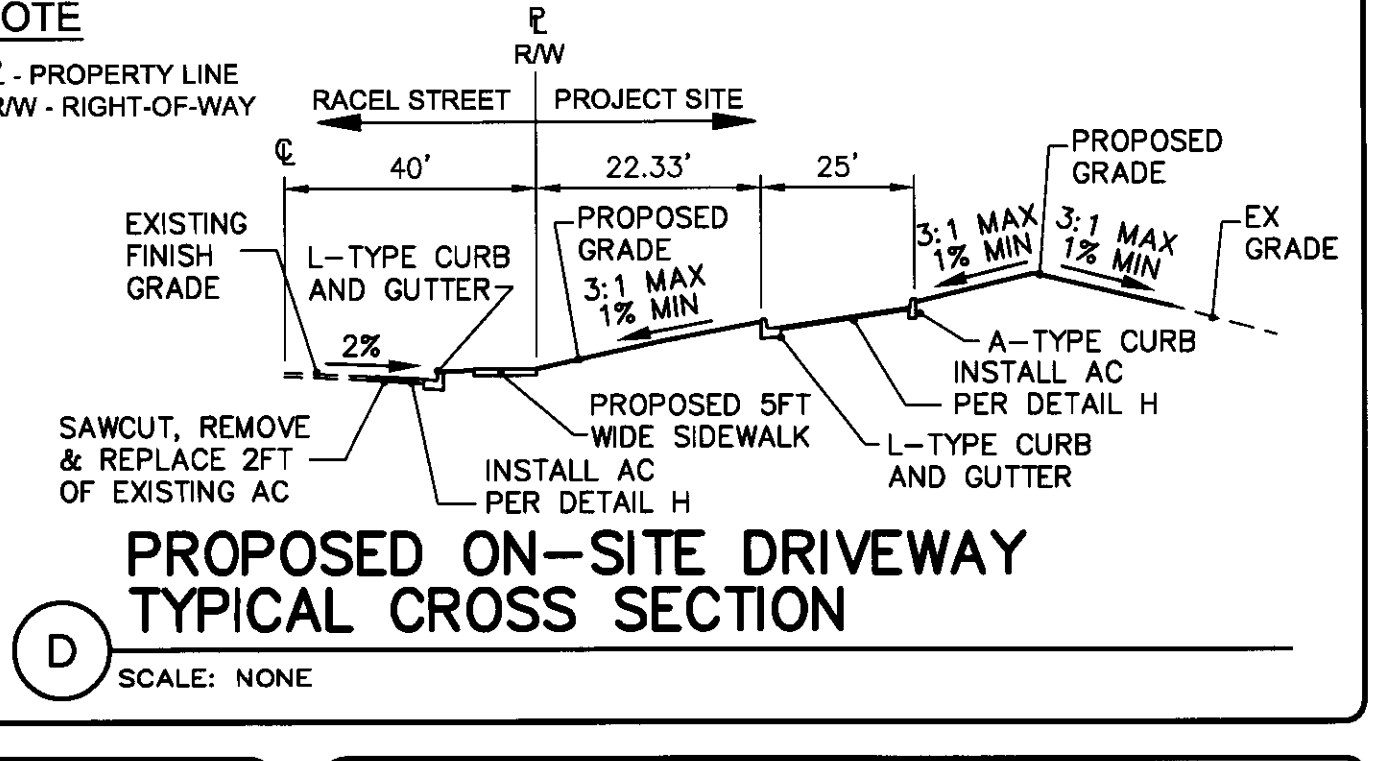
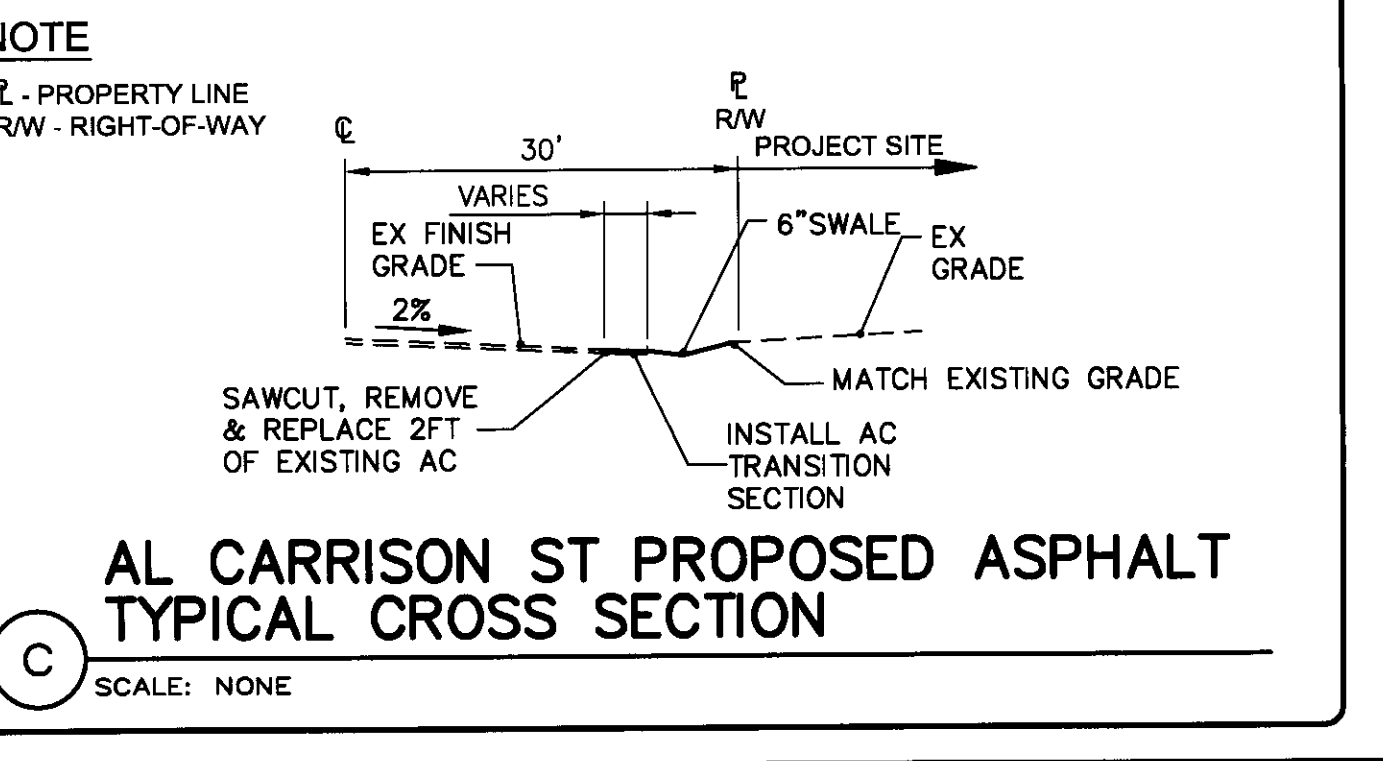
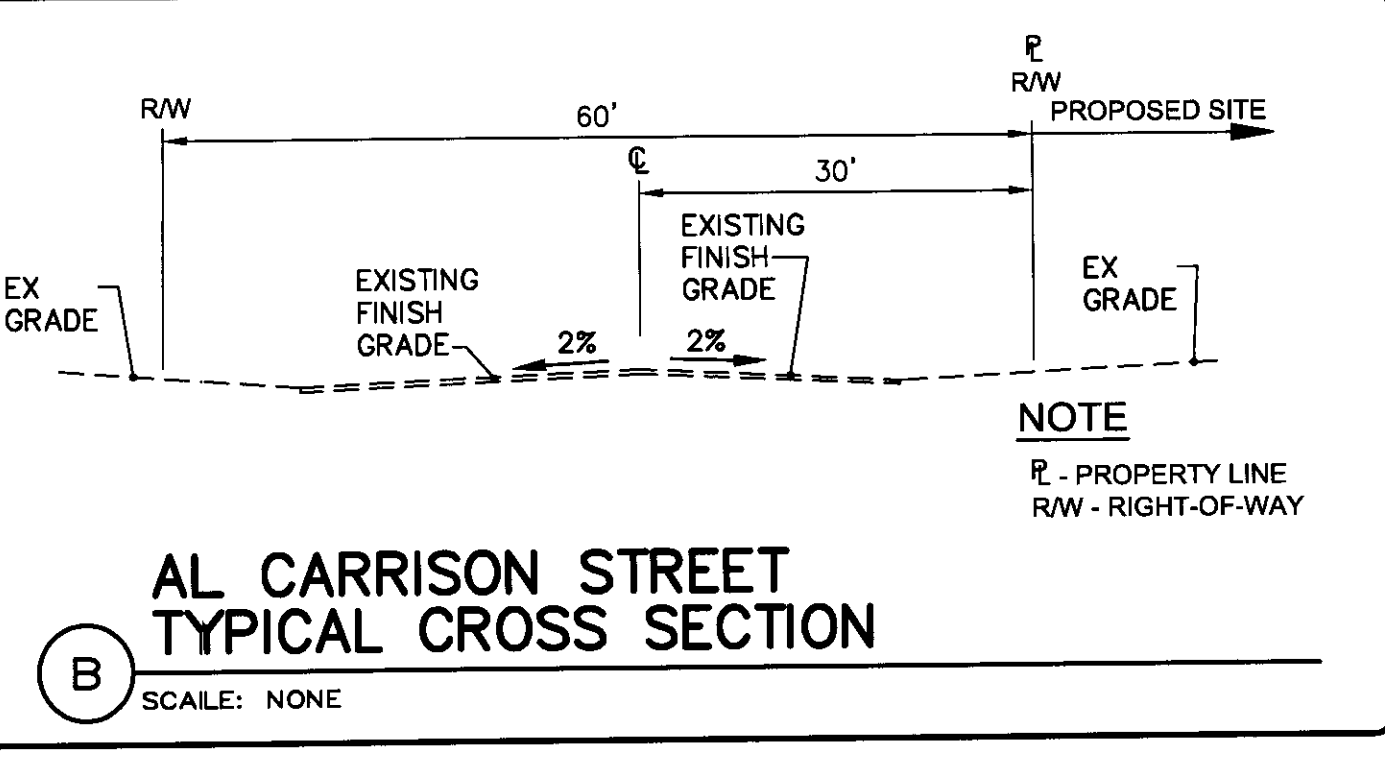
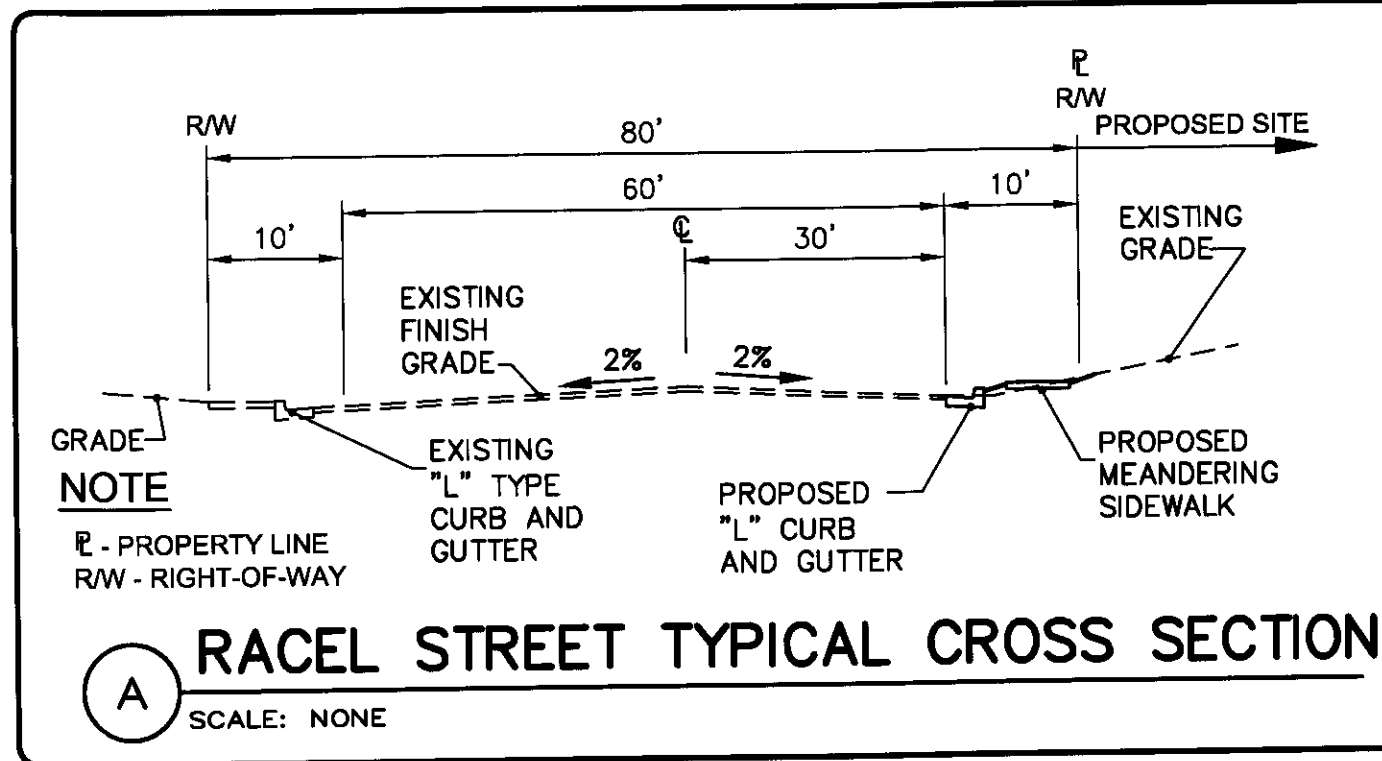
- Supplement Letter
- Revised Grading Plan
- CD with the Grading Plan pdf files and the Addendum Letter

If you have any questions or need additional information, please contact me.

Thanks,

Joe Alvin Haun, PE, MSE





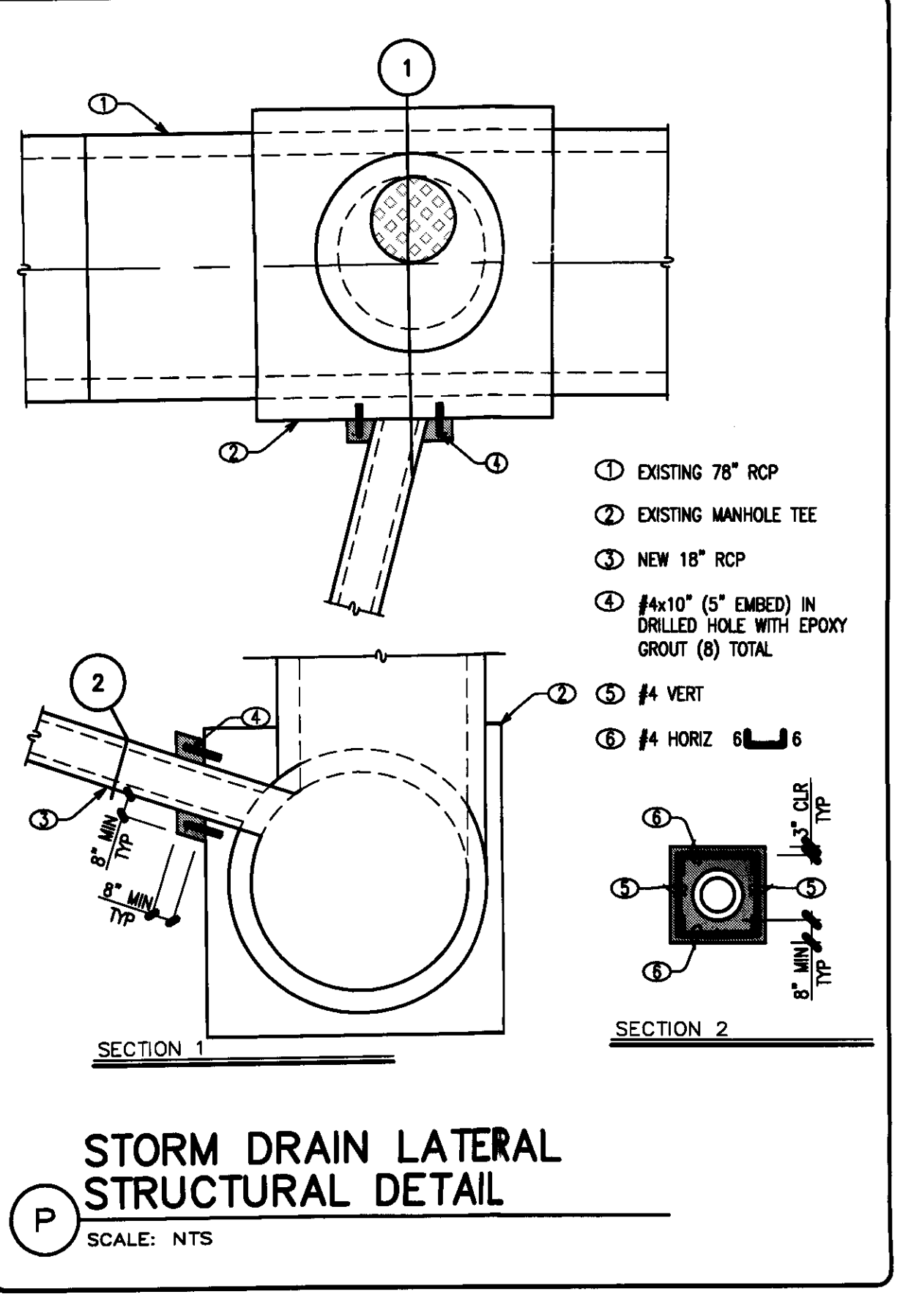
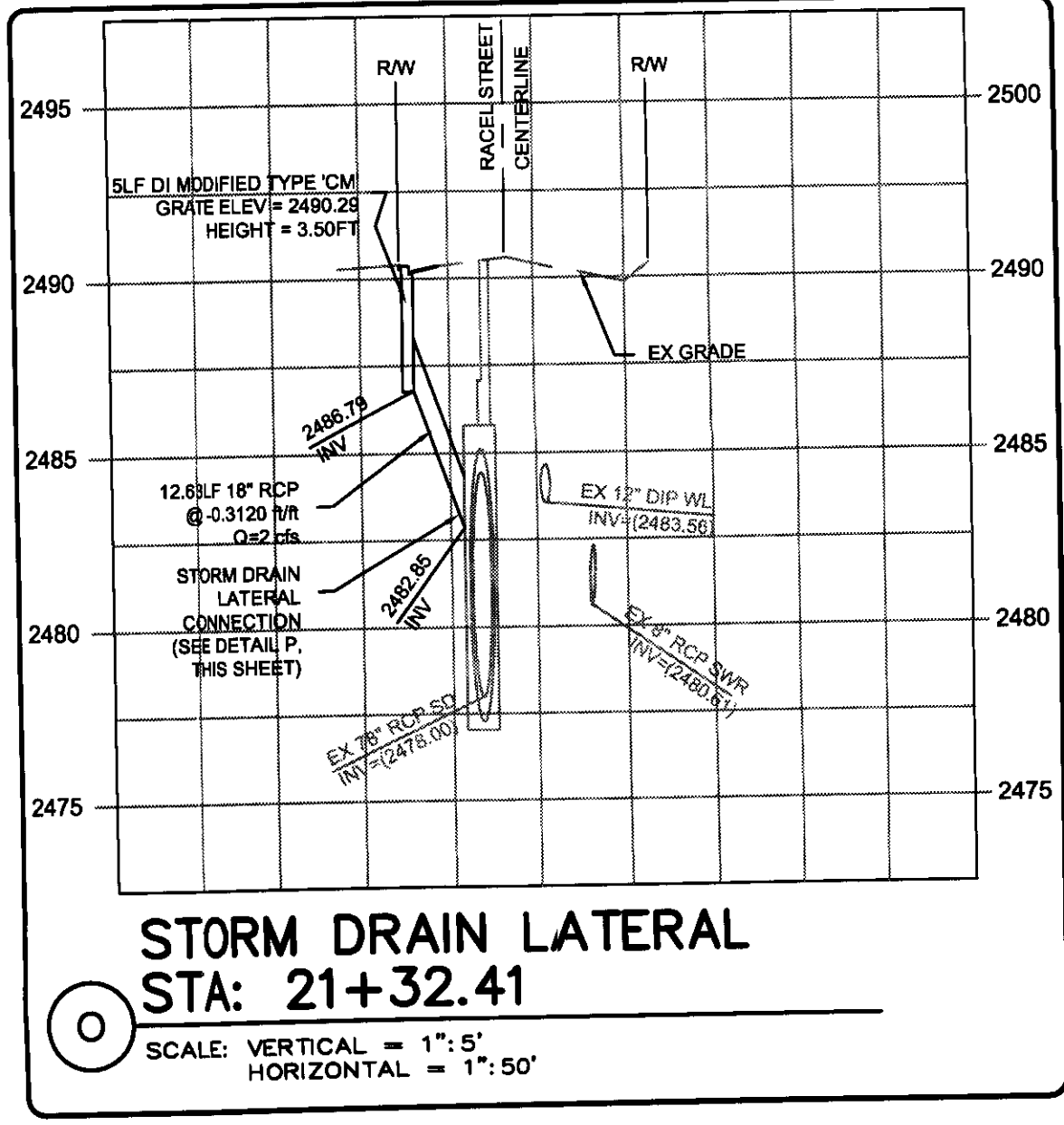
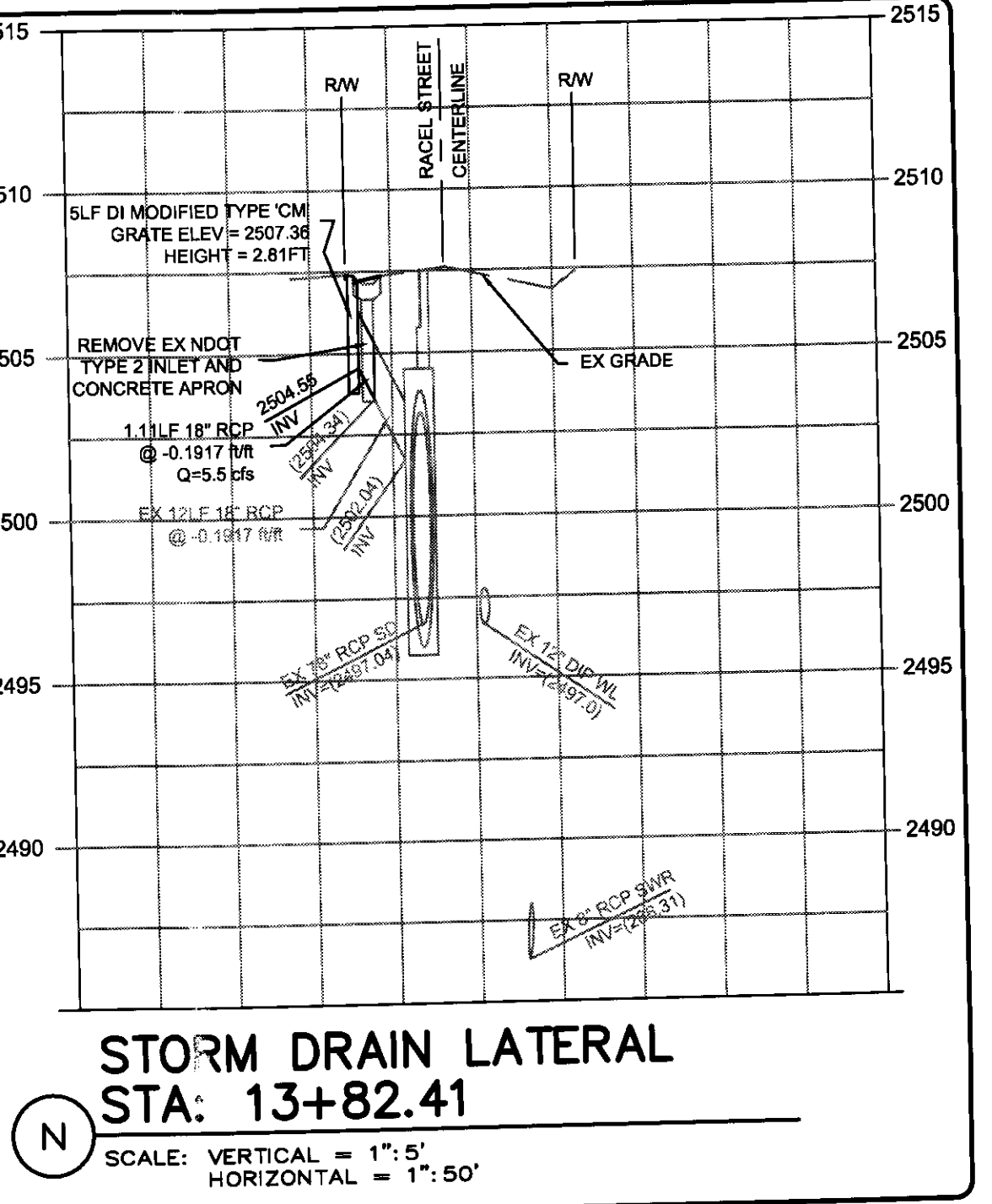
ESTIMATE OF QUANTITIES

ESTIMATE OF PUBLIC QUANTITIES FOR PERMITTING PURPOSES ONLY

STREET IMPROVEMENTS	PRIVATE	PUBLIC	TOTAL
3" A.C. PAVEMENT W/6" TYPE II, 6" TYPE I AGGREGATE BASE	0 SY	1002 SY	1002 SY
2" A.C. PAVEMENT W/6" TYPE II, 6" TYPE I AGGREGATE BASE	2,164 SY	0 SY	2,164 SY
5" CONCRETE SIDEWALK WITH 5" TYPE II AGGREGATE BASE	4,452 SY	451 SY	4,903 SY
24" SIDEWALK UNDERDRAIN	0 EA	1 EA	1 EA
2' L-TYPE CURB/ TYPE II BASE	281 LF	825 LF	1106 LF
6" A-TYPE CURB/ TYPE II BASE	893 LF	0 LF	893 LF
2' CONCRETE VALLEY GUTTER	231 LF	0 LF	231 LF
6" CONCRETE VALLEY GUTTER	0 LF	56 LF	56 LF
5FT DI MODIFIED TYPE "CM"	0 EA	2 EA	2 EA
18" RCP SD	0 LF	15 LF	15 LF

NOTICE TO CONTRACTORS:
QUANTITIES SHOWN ARE FOR PERMITTING PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING HIS OWN QUANTITY TAKE OFF, AND BID ACCORDINGLY.

M QUANTITY ESTIMATES
SCALE: NTS



BASIS OF BEARING

THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 35, TOWNSHIP 21 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY THE MAP ON FILE IN FILE 99, PAGE 46 OF SURVEYS IN CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

CLARK COUNTY BENCH MARK # 7C20 2SWS "1997" RIVET AND ROUND ALUMINUM PLATE IN A CONCRETE BASE OF A METAL POWER POLE, NORTHEAST CORNER OF RAINBOW BLVD. AND WARM SPRINGS RD. POLE # "95650". ELEVATION 2510.33/765.149 METERS (NAVD '88 DATUM).

NOTES

1. THERE ARE EXISTING STRUCTURES OR FACILITIES ON THE PROPERTY.
2. THERE ARE EXISTING IRRIGATION OR DRAINAGE EASEMENTS ON THE PROPERTY.
3. THERE ARE NO EXISTING UTILITIES ON THE SITE.

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1. THERE ARE EXISTING STRUCTURES OR FACILITIES ON THE PROPERTY.
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3. THERE ARE NO EXISTING UTILITIES ON THE SITE.

OWNER/DEVELOPER: GILCRASE NATURE SANCTUARY
8103 RACEL STREET
LAS VEGAS, NV 89121
PHONE: (702) 505-8127

ENGINEER: HAINTEC
2770 RIVINGTON DRIVE
LAS VEGAS, NV 89108
PHONE: (702) 219-5745

PROJECT: GILCRASE NATURE SANCTUARY PHASE 1
APN 125-09-401-033
LAS VEGAS, NEVADA

DESIGNER:
DRAWN BY:

JOB NO. 11-0004
CLV DWG. NO.
SHEET NO. C2
4 OF 8