CITY OF ALBUQUERQUE



August 19, 2016

Ron Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, New Mexico 87109

Re: Freddy's

131 Coors Blvd NW

Requested for 60-Day Permanent C. O. - Accepted

Engineers Stamp Date 7/7/15 (K10D001B)

Dear Mr. Bohannan,

Based on the Certification received 8/16/2016, the site is acceptable for release of Certificate of Occupancy by Hydrology.

PO Box 1293

• The Emergency Spillway appears to flow back into the pond. Per the drawings the flow was towards the NE corner of the spillway. Should the ponds every completely fill up the water may back flow into the site.

Albuquerque

If you have any questions, you can contact me at 924-3999 or Totten Elliott at 924-3982.

New Mexico 87103

www.cabq.gov

Abiel Carrillo, P.E.,

Sincerely,

Principal Engineer, Planning Department

Development and Review Services

TE/AC

C: email Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.; Blocker,

Lois



City of Albuquerque

Planning Department

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

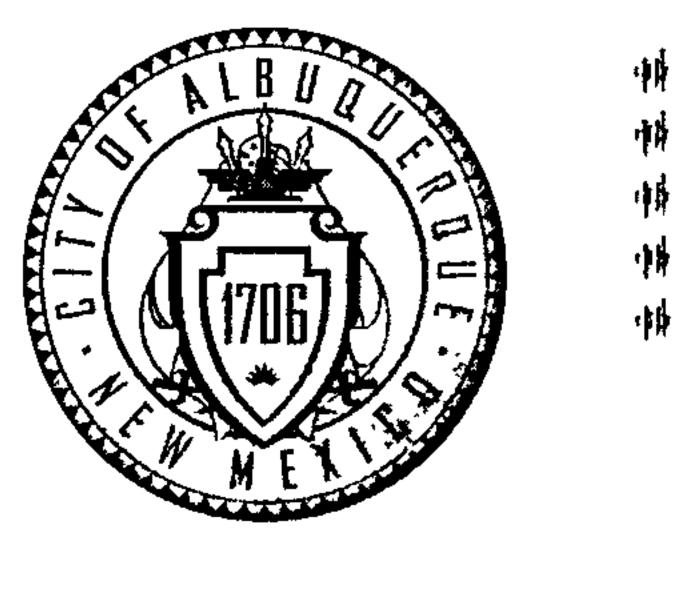
(REV 02/2013)

DRB#: 1004095 EPC#: Work Order#: Legal Description: TR D-1 Plat of Hubbell Plaza City Address: 111 Coors Blvd. NW Albuquerque, NM 87121 Engineering Firm: Tierra West, LLC Contact: Ronald R. Bohannan Address: 5571 Midway Park Place NE Albuquerque, NM 87109 Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: rrb@tierrawestllc.com Owner: Oak Realty Partners, Inc. Contact: Michael Bushell Address: 5975 S Quebec Street, Suite 141 Greenwood Village, CO 80111 Phone#: 303-318-0100 Fax#: E-mail:	Project Title: Freddy's	HAET	City Drainage #: KDD00LB
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	Owner: Oak Realty Partners, Inc.		Contact: Michael Bushell
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OTHER (SPECIFY) GRADING CERTIFICATION OTHER (SPECIFY)			
WAS A PRE-DESIGN CONFERENCE ATTENDED: Yes No Copy Provided	WAS A PRE-DESIGN CONFERENCE ATTE	ENDED: Yes No	Copy Provided
DATE SUBMITTED: 8/15/16 By: BF for RRB			

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
- 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
- 4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

CITY OF ALBUQUERQUE



Planning Department
Suzanne Lubar, Director

Mayor Richard J. Berry

August 4, 2016

Ron Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, New Mexico 87109

RE: Freddy's

131 Coors Blvd NW

Requested for 60 Day Temporary C. O. - Accepted

Engineers Stamp Date 7/7/15 (K10D001B)

Dear Mr. Bohannan,

PO Box 1293

Based on the certification provided in your submittal received 8/3/2016, the above referenced is approved for a 60-day Temporary Release of Occupancy by Hydrology. However, before a permanent CO can be accepted the following comments must be addressed.

Albuquerque

• The concrete spillway must be constructed

New Mexico 87103

An inspection by our office will need to take place after these corrects are made.

If you have any questions, you can contact me at 924-3686 or Totten Elliott at 924-3982.

www.cabq.gov

Abiel Carrillo, P.E.,

Principal Engineer, Planning Department

Development and Review Services

TE/AC

Sincerely.

C: Email

Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.; Blocker, Lois



City of Albuquerque

Planning Department

Development & Building Services Division RAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 02/2013)

Project Title: Freddy's	City Drainage #: KIO DCO []
DRB#: 1004095	EPC#: Work Order#:
Legal Description: TR D-1 Plat of Hubbell Plaza	
City Address: 111-Coors Blvd. NW Albuquerque, NM	87121
Engineering Firm: Tierra West, LLC	Contact: Ronald R. Bohannan
Address: 5571 Midway Park Place NE Albuquerque,	· · · · · · · · · · · · · · · · · · ·
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Owner: Oak Realty Partners, Inc.	Contact: Michael Bushell
Address: 5975 S Quebec Street, Suite 141 Greenwood	
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Contractor:	Contact:
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DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL
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WAS A PRE-DESIGN CONFERENCE ATTENDI	ED: Yes No Copy Provided
DATE SUBMITTED: 8/03/16	By: BF for RR8

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- 3. Drainage Report Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
- 4 Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development



July 29, 2016 2016

Ronald Bohannan Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

Re: Freddy's; 111 Coors Blvd NW

Request for Certificate of Occupancy- Transportation Development

Engineer's dated 7-30-15 (K10D001B)

Certification dated 07-29-16

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 07-29-16, Transportation. Development has no objection to the issuance of a <u>Permanent Certificate of Occupancy</u>. This letter serves as a "green tag" from Transportation Development for a <u>Permanent Certificate of Occupancy</u> to be issued by the Building and Safety Division.

PO Box 1293

If you have any questions, please contact Monica Ortiz at (505) 924-3981 or me at (505)924-3991.

Albuquerque

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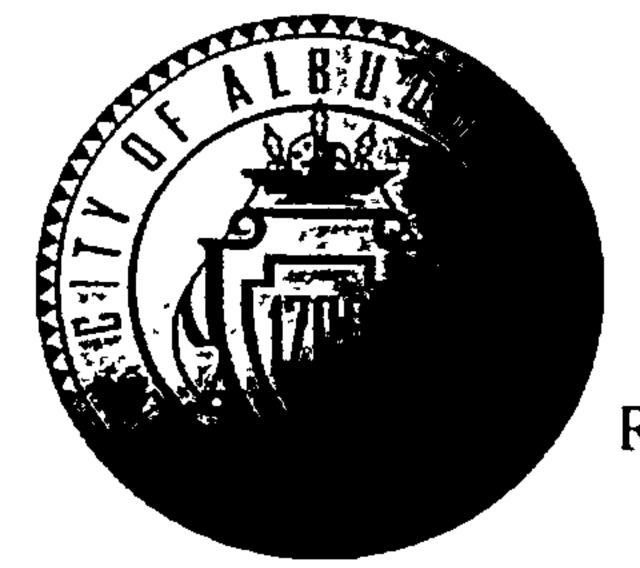
New Mexico 87103

www.cabq.gov

Racquel M. Michel, P.E.

Traffic Engineer, Planning Dept.
Development Review Services

mao via: email C: CO Clerk, File



City of Albuquerque

Planning Department

Development & Building Services Division RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Freddy's	City Drainage #: KIODOOI
DRB#: 1004095 EP	C#: Work Order#:
Legal Description: TR D-1 Plat of Hubbell Plaza	
City Address: 111 Coors Blvd. NW Albuquerque, NM 8	7121
Engineering Firm: Tierra West, LLC	Contact: Ronald R. Bohannan
Address: 5571 Midway Park Place NE Albuquerque, N	M 87109
Phone#: 505-858-3100 Fax	x#: 505-858-1118 E-mail: rrb@tierrawestllc.com
Owner: Oak Realty Partners, Inc.	Contact: Michael Bushell
Address: 5975 S Quebec Street, Suite 141 Greenwood	Village, CO 80111
Phone#: 303-318-0100 Fax	x#: E-mail:
Architect:	Contact:
Address:	
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Surveyor:	Contact:
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TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL/ACCEPTANGE SOLGHIT:
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DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL (C) [[] [] []
CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG. PERMIT APPROVALED LELL UNLEMENTED
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SO-19	WORK ORDER APPROVAL ESC CERT. ACCEPTANCE
OTHER (SPECIFY)	GRADING CERTIFICATION OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED	D: Yes No Copy Provided
DATE SUBMITTED: 7/29/16	By: BF for RRB

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tierrawestllc.com

TIERRA WEST, LLC

July 29, 2016

Ms. Racquel Michel, P.E.
Development and Building Services
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: SITE PLAN FOR BUILDING PERMIT CERTIFICATION

CERTIFICATION FOR PERMENANT CERTIFICATE OF OCCUPANCY

FREDDY'S, 111 COORS BLVD NW 87121

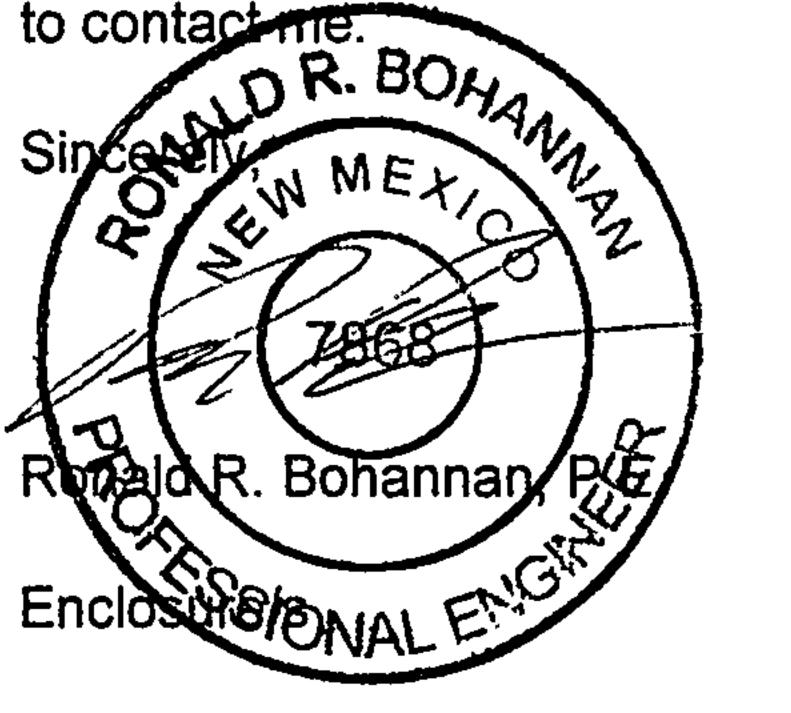
Dear Ms. Michel:

I, Ronald R. Bohannan, NMPE #7868, of the firm Tierra West LLC, hereby request approval of the Approved Site Plan for Building Permit for issuance of the Permanent Certificate of Occupancy for the project referenced above. This project is in substantial compliance as inspected on July 28, 2016 and is in accordance with the design intent of the Approved Site Plan for Building Permit dated 5/21/15. This certification is submitted in support of the request for Permanent Certificate of Occupancy for the completed building.

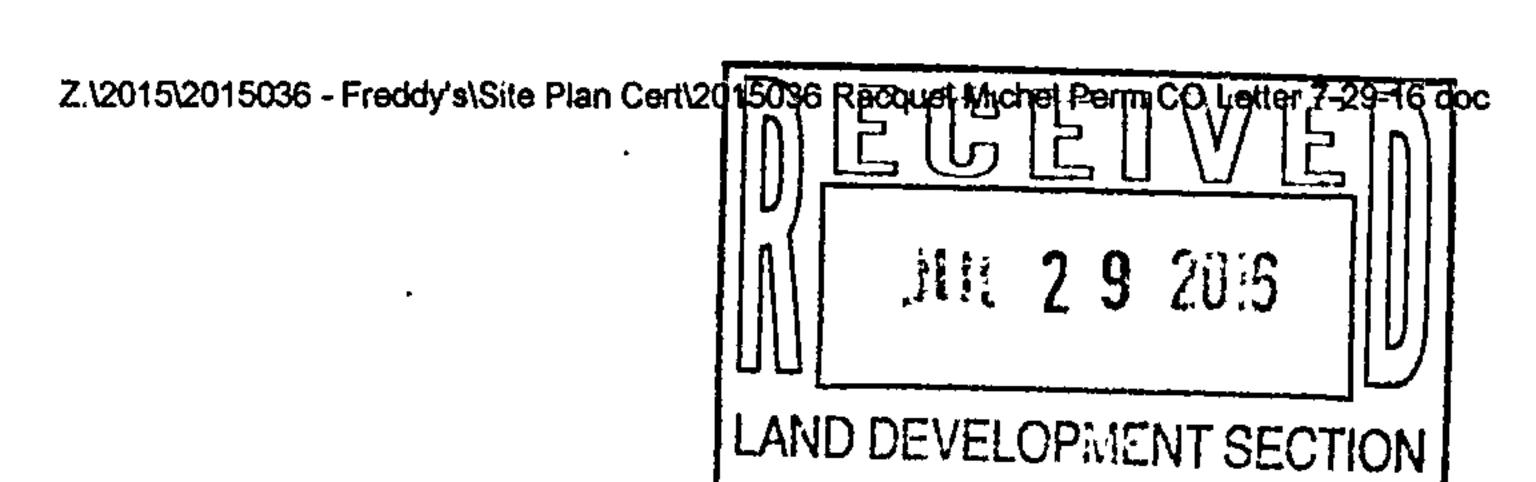
The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the traffic aspects of this project. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Enclosed, please find the information sheet and the as-built Site Plan for Building Permit. Therefore, we request approval of the as-built Site Plan for Building Permit for a Permenant Certificate of Occupancy for the completed buildings.

If you have any questions or need additional information regarding this matter, please do not hesitate



JN: 2015036 RRB/VP/bf





August 6, 2015

Ronald R. Bohannan, P.E. Tierra West, LLC 5571 Midway Park Pl NE Albuquerque, NM 87109

Re: Freddy's, Tract D-1 Plat Of Hubbell Plaza

Grading and Drainage Plan

Engineer's Stamp Date 7-7-2015 (K10-D001B)

Dear Mr. Bohannan,

Based upon the information provided in your submittal July 27, 2015, the above referenced plan is approved for Building Permit.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit for storm water discharge for disturbing one acre or more and a Topsoil Disturbance Permit for disturbing ¾ of an acre or more. Since more than one acre will be disturbed an Erosion and Sediment Control plan will also have to be approved prior

to building permit approval.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM

checklist will be required.

New Mexico 87103 If you have any questions, you can contact me at 924-3999.

Sincerely, www.cabq.gov

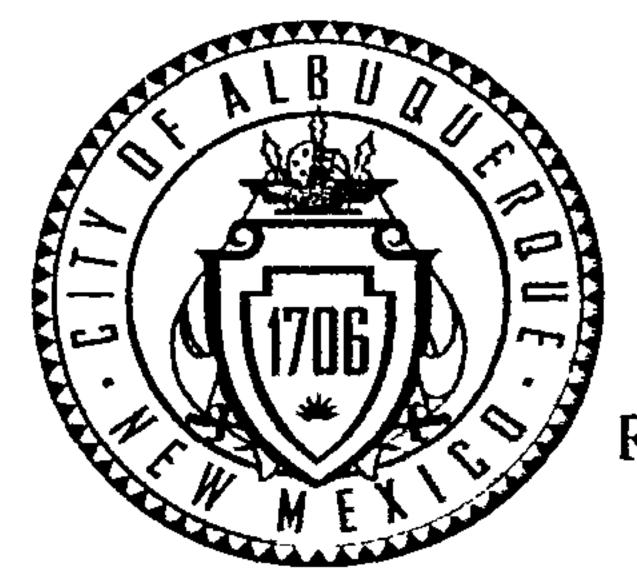
PO Box 1293

Albuquerque

-Shahab Biazar, P.E.

City Engineer, Planning Dept.
Development Review Services

C: e-mail



City of Albuquerque

Planning Department

Development & Building Services Division RAINAGE AND TRANSPORTATION INFORMATION SHEET

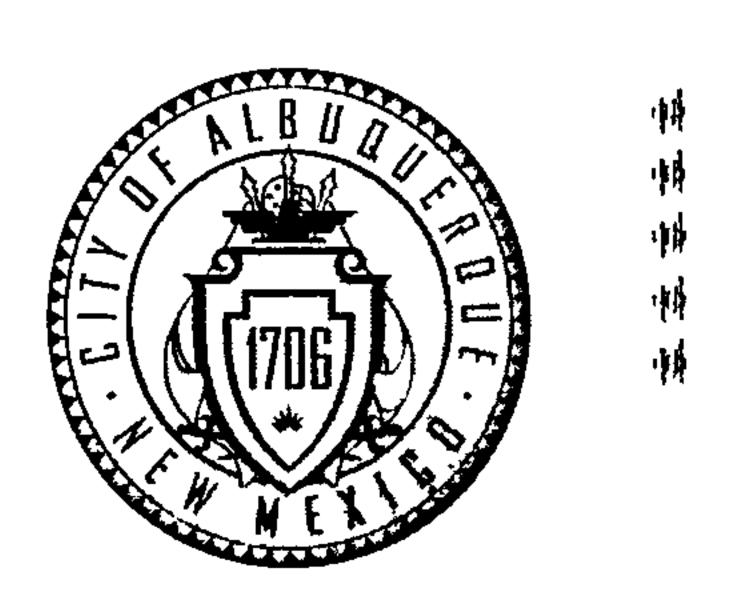
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DRBB: 1004095	Project Title: Freddy's		City Drainage #:
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Engineering Firm: Tierra West, LLC Address: 5571 Midway Park Place NE Albuquerque, NM 57105 Phone#: 505-558-3100 Fax#: 505-558-3110 Contact: Michael Bushell Address: 5975 S Quebec Street, Sulte 141 Greenwood Villege, CO 80111 Phone#: 303-318-0100 Fax#:	Legal Description: TR D-1 Plat of Hubbell Plaza		
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Owner: Oak Realty Partners, inc. Address: 5978 S Quebec Street, Suite 141 Greenwood Village, CO 80111 Phone#: 303-318-0100 Fax#: E-mail: Architect: Contact: Address: Phone#: Fax#: E-mail: Surveyor: Contact: Address: Phone#: Fax#: E-mail: Contractor: Contact: Address: Phone#: Pax#: E-mail: COntractor: Contact: Address: Phone#: Pax#: E-mail: CONTACT: Address: Phone#: Pax#: E-mail: CONTACT: Contact: Address: Phone#: Pax#: E-mail: CONTACT: Address: Phone#: Pax#: E-mail: CONTACT: Contact: Address: Phone#: Pax#: E-mail: Phone#: Pax#: E-mail: CONTACT: Contact: Address: Phone#: Pax#: E-mail: Phone#:	Address: 5571 Midway Park Place NE Albuquero	que, NM 87109	
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Architect: Address: Phone#: Fax#: Contact: Contact: Address: Phone#: Fax#: Contact: Co	Address: 5975 S Quebec Street, Suite 141 Gree	nwood Village, CO 80111	
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	DATE SUBMITTED: 7/24/15		

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
- 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
- 4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

CITY OF ALBUQUERQUE



July 9, 2015

Ronald Bohannan, PE Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

RE: Freddy's (Formerly Whataburger)

Grading and Drainage Plan

Engineer's Stamp Date 7-07-2015 (File: K10-D001B)

Dear Mr. Bohannan:

Based upon the information provided in your submittal received 7-07-15, the above referenced plan is approved for action by DRB on the Site Plan for Building Permit.

PO Box 1293

Prior to Building Permit approval, DRB approval is required. If you have any questions, you can contact me at 924-3924.

Albuquerque

Sincerely,

New Mexico 87103

Jeanne Wolfenbarger, P.E.

Senior Engineer, Planning Dept.

Development Review Services

www.cabq.gov

Orig: Drainage file

c.pdf Addressee via Email

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Freddy's (Previously Whataburger)	City Drainage #: KODO
DRB#: EPC	
Legal Description: TR D-1 Plat of Hubbell Plaza	
City Address: 111 Coors Blvd. NW Albuquerque, NM 87	121
Engineering Firm: Tierra West, LLC	Contact: Ronald R. Bohannan
Address: 5571 Midway Park Place NE Albuquerque, NN	<i>1</i> 87109
Phone#: 505-858-3100 Fax	#: 505-858-1118 E-mail: rrb@tierrawestllc.com
Owner: Oak Realty Partners, Inc.	Contact: Michael Bushell
Address: 5975 S Quebec Street, Suite 141 Greenwood	Village, CO 80111
Phone#: 303-318-0100 Fax	#: E-mail:
Architect:	Contact:
Address:	
Phone#: Fax	#: E-mail:
Surveyor:	Contact:
Address:	
Phone#: Fax	#: E-mail:
Contractor:	Contact:
Address:	
Phone#: Fax	#: E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL 트 년 년 년 년 년 년 년 년 년 년 년 년 년 년 년 년
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ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPANCY (PERM)LAND DEVELOPMENT SECTION
CLOMR/LOMR	CERTIFICATE OF OCCUPANCY (TCL TEMP)
TRAFFIC CIRCULATION LAYOUT (TCL)	FOUNDATION PERMIT APPROVAL
ENGINEER'S CERT (TCL)	BUILDING PERMIT APPROVAL
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPROVAL SO-19 APPROVAL
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROVAL ESC PERMIT APPROVAL
SO-19	WORK ORDER APPROVAL ESC CERT. ACCEPTANCE
OTHER (SPECIFY)	GRADING CERTIFICATION OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED	: Yes No Copy Provided

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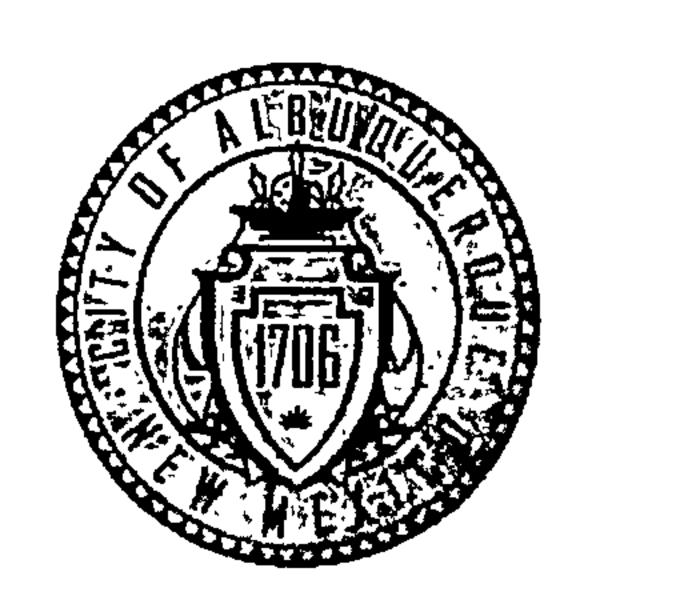
By: Vinny Perea

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres

DATE SUBMITTED: 7/7/2015

- 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
- 4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

CITY OF ALBUQUERQUE



June 16, 2015

Ronald Bohannan, PE Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

RE: Freddy's (Formerly "Whataburger"), 111 Coors Blvd. NW Grading and Drainage Plan Engineer's Stamp Date 6-03-2015 (File: K10-D001B)

Dear Mr. Bohannan:

Based upon the information provided in your submittal received 6-03-15, the above referenced Grading Plan cannot be approved for Building Permit until the following comments are addressed:

1) A new grading and drainage plan must be submitted based on the updated site plan which addresses EPC Comments. Ensure that the new site layout incorporates the same detention pond sizing as the old site layout.

PO Box 1293

Albuquerque

2) The electronic submittal (Engineer's stamp date - 6/03/15) does not match the hard copy submittal (Engineer's stamp date - 5/18/15). The 6/03/15 plan addresses the latest and greatest comments (e-mail dated 6/01/15) that ask for additional existing spot elevations at the accessways from the shopping center parking lot and the grease trap for the trash dumpster.

New Mexico 87103

If you have any questions, you can contact me at 924-3924.

www.cabq.gov

Sincerely,

Jeanne Wolfenbarger, P.E.

Senior Engineer, Planning Dept.

Development Review Services

Orig: Drainage file

c.pdf Addressee via Email

LAND DEVELOPMENT SECTION I



TIERRA WEST, LLC

July 7, 2015

Ms. Jeanne Wolfenbarger, P.E. Senior Engineer, Planning Dept. City of Albuquerque PO Box 1293 Albuquerque, NM 87103

RE:

FREDDY'S, 111 COORS BLVD. NW GRADING AND DRAINAGE PLAN

ENGINEER'S STAMP DATE 5-18-2015 (K10-D001B)

Dear Ms. Wolfenbarger:

Per your correspondence dated June 16, 2015, please find the following responses addressing the comments listed below:

1. A new grading and drainage plan must be submitted based on the updated site plan which addresses EPC Comments. Ensure that the new site layout incorporates the same detention pond sizing as the old site layout.

Response: The north detention pond of the original layout was split into two detentions ponds, one in the NE corner of the site and the other on the landscaping area directly north of the drive-thru lanes. Both detention ponds are interconnected with an equalizing HDPE pipe to act as a singular detention pond. A 4-inch cut in the retaining wall on the NE corner of Detention Pond 1, spanning 32-feet, will act as an emergency overflow to Coors Boulevard. This spillway will assure that the MWSE will not reach the finished floor elevation of the building.

The grading was updated to account for the new layout and ensure positive drainage towards all drainage structures. Speed tables were added for the two pedestrian access routes onsite and the grading was taken into account for this to assure that the tables don't act as a water block in the parking lot.

With the updated grading plan, the hydrology concepts have not changed with the exception of a sixth basin delineated from the original five basins. The required volume to store runoff onsite has remained the same at 0.81 ac-ft. The storage volume of the two new detention ponds will hold 0.37 ac-ft, the volume of the surface ponding will be 0.22 ac-ft, and the volume of the underground storage will be 0.22 ac-ft. This gives a total storage volume of 0.81 ac-ft, which is the required storage capacity.

Capacity calculations, drainage basin map, and first flush volume retention calculations were updated on sheet C2 to account for the new layout. Details for pond outlet and cross sections of each pond were updated to account for the new layout as well.

The electronic submittal (Engineer's stamp date – 6/03/15) does not match the hard copy BigNeubmittal (Engineer's stamp date - 5/18/15). The 6/03/15 plan addresses the latest and greatest comments (e-mail dated 6/01/15) that ask for additional existing spot elevations

18 Fax (505) 858-1

tierrawestllc.com

Midway Park Place NE 858-3100 Fax (5 5571 (505)

C 5

at the access ways from the shopping center parking lot and the grease trap for the trash dumpster.

Response: The electronic submittal for this current stamped grading and drainage plan will be submitted simultaneously with the updated hard copy plans.

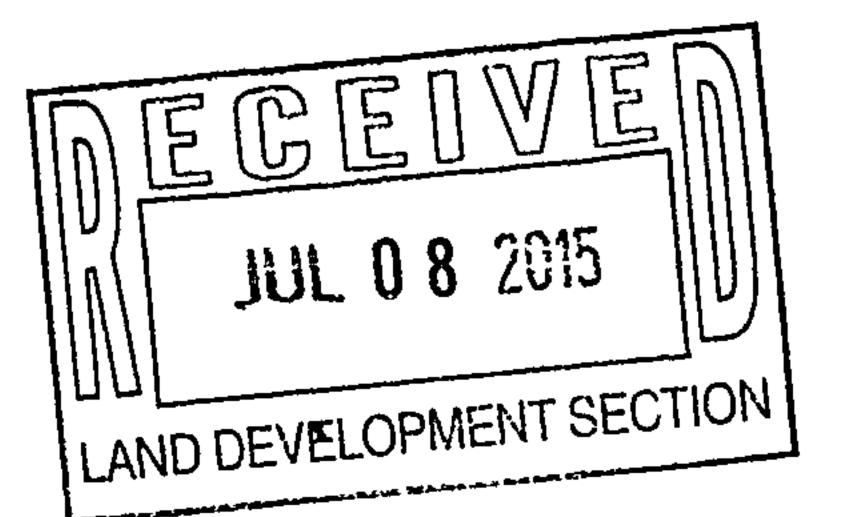
If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

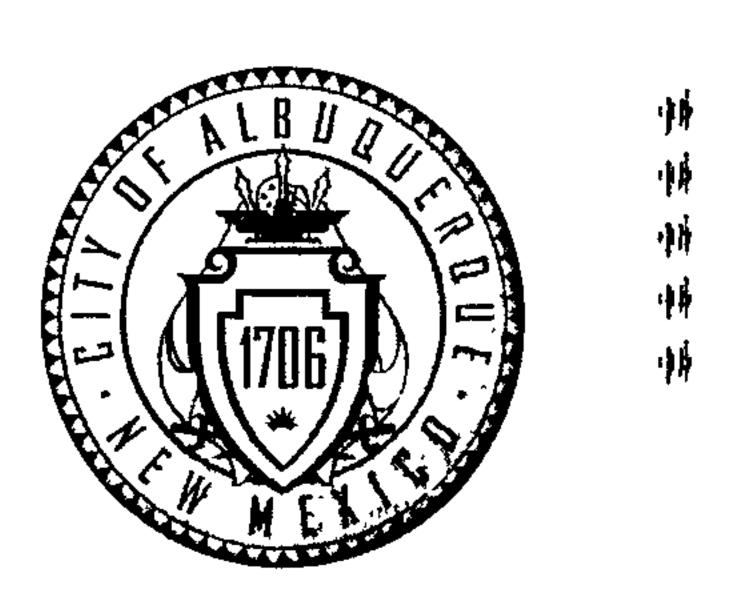
Ronald R. Bohannan, PE

JN: 2015036 RRB/vp

Z:\2015\2015036 Freddy's at Coors and Central\Drainage\2015036 15-06-03 Response to JW Hydology Comments docx



CITY OF ALBUQUERQUE



June 16, 2015

Ronald Bohannan, PE Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

RE: Freddy's (Formerly "Whataburger"), 111 Coors Blvd. NW Grading and Drainage Plan Engineer's Stamp Date 6-03-2015 (File: K10-D001B)

Dear Mr. Bohannan:

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1) A new grading and drainage plan must be submitted based on the updated site plan which addresses EPC Comments. Ensure that the new site layout incorporates the same detention pond sizing as the old site layout.

PO Box 1293

Albuquerque

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New Mexico 87103

If you have any questions, you can contact me at 924-3924.

www.cabq.gov

Sincerely,

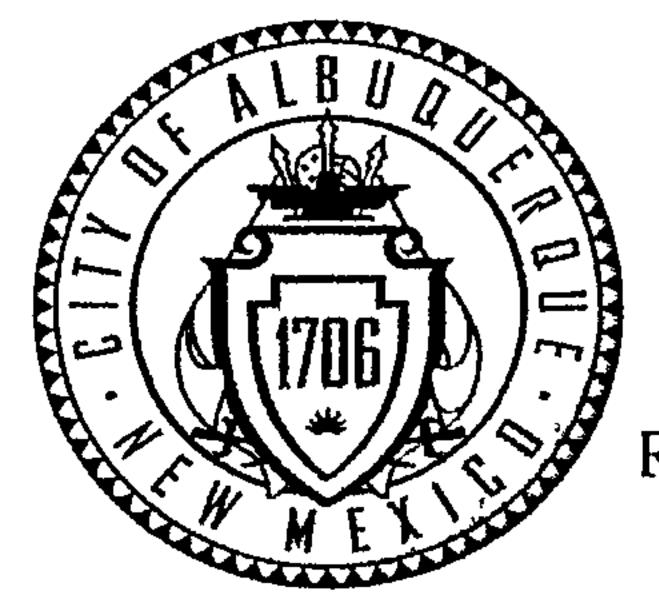
Jeanne Wolfenbarger, P.E.

Senior Engineer, Planning Dept.

Development Review Services

Drainage file

Addressee via Email



City of Albuquerque

Planning Department

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Freddy's (Previously Whataburger)		City Drainage #: () () CO
DRB#:	EPC#:	Work Order#:
Legal Description: TR D-1 Plat of Hubbell Plaza		
City Address: 111 Coors Blvd. NW Albuquerque,	NM 87121	
Engineering Firm: Tierra West, LLC		Contact: Ronald R. Bohannan
Address: 5571 Midway Park Place NE Albuquerq	que, NM 87109	
Phone#: 505-858-3100	Fax#: 505-858-1118	E-mail: rrb@tierrawestllc.com
Owner: Oak Realty Partners, Inc.		Contact: Michael Bushell
Address: 5975 S Quebec Street, Suite 141 Green	nwood Village, CO 80111	
Phone#: 303-318-0100	Fax#:	E-mail:
Architect:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
Surveyor:		Contact:
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ENGINEER'S CERT (TCL)	BUILDING PERMIT A	APPROVAL
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT A	APPROVAL SO-19 APPROVAL
ENGINEER'S CERT (ESC)	PAVING PERMIT AP	PROVAL ESC PERMIT APPROVAL
SO-19	WORK ORDER APPR	OVAL ESC CERT. ACCEPTANCE
OTHER (SPECIFY)	GRADING CERTIFIC	ATION OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTE	NDED: Yes No	Copy Provided
DATE SUBMITTED: 6/3/15	By: Vinny Perea	

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
- 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
- 4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

5571 (505) tierrawestllc.com



TIERRA WEST, LLC

June 3, 2015

Ms. Jeanne Wolfenbarger, P.E. Senior Engineer, Planning Dept. City of Albuquerque PO Box 1293
Albuquerque, NM 87103

RE:

FREDDY'S, 111 COORS BLVD. NW
GRADING AND DRAINAGE PLAN
ENGINEER'S STAMP DATE 5-18-2015 (K10-D001B)

Dear Ms. Wolfenbarger:

Per your correspondence dated June 1, 2015, please find the following responses addressing the comments listed below:

1. An agreement from adjacent property owner to the west is required to acknowledge the increase in 100-year water surface elevation to what is shown on the plan at a distance of "x" above existing ground.

Response: Included with this submittal is a signed agreement letter from the property owner of Tract A1-A-2A to the west stating that they acknowledge the change of the maximum water surface elevation in the parking lot of said tract.

- 2. Put back the spot elevations that were originally on the conceptual plan showing the relationship between top of water surface elevation and top of existing ground. Ensure that the added water surface depth does not adversely affect the property to the north or south and that drainage is still being directed toward the double "D" inlet.
 - Response: Spot elevations along the curb on the western property line have been added along with flow arrows to assure that positive drainage is still directed towards the Double D inlet.
- 3. Add a grease trap connection for the dumpster with a couple of added spot elevations showing drainage to the grease trap.

Response: The grease trap drain for the dumpster has been added to the grading plan and labeled. Spot elevations for the drain and dumpster area have been added to assure drainage is directed towards the drain. The connection to the grease trap has been accounted for in the utility plan.

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

Ronald R. Bohannan, P.E. JN: 2015036

RRB/vp

Z.\2015\2015036 Freddy's at Coors and Central\Drainage\2015036 15-06-03 Response to JW Hydology Comments docx

LAND DEVELOPMENT SECTION,

Vinny Perea

柳柳柳

From: Wolfenbarger, Jeanne <jwolfenbarger@cabq.gov>

Sent: Monday, June 01, 2015 4:37 PM

To: Vinny Perea

Subject: Freddy's (Formerly Whataburger)

Follow Up Flag: Follow up Flag Status: Follow Up

Vinny,

As discussed, prior to approval, we will need:

- A. An agreement from adjacent property owner to the west acknowledging the increase in 100-year water surface elevation to what is shown on the plan at a distance of "X" above existing ground.
- B. Put back the spot elevations that you had on the conceptual plan showing the relationship between top of water surface elevation and top of existing ground. Ensure that the added water surface depth does not adversely affect the property to the north or south and that drainage is still being directed toward the double "D" inlet.
- C. Add a grease trap connection for the dumpster with a couple of added spot elevation showing drainage to the grease trap.

Thanks!

Jeanne

If this email is spam, report it to www.OnlyMyEmail.com

柳柳柳柳柳

5975 S. Quebec Street, Suite 141 Greenwood Village, CO 80111

June 2, 2015

Ms. Jeanne Wolfenbarger, P.E. Senior Engineer, Planning Dept. City of Albuquerque P.O. Box 1293
Albuquerque, NM 87103

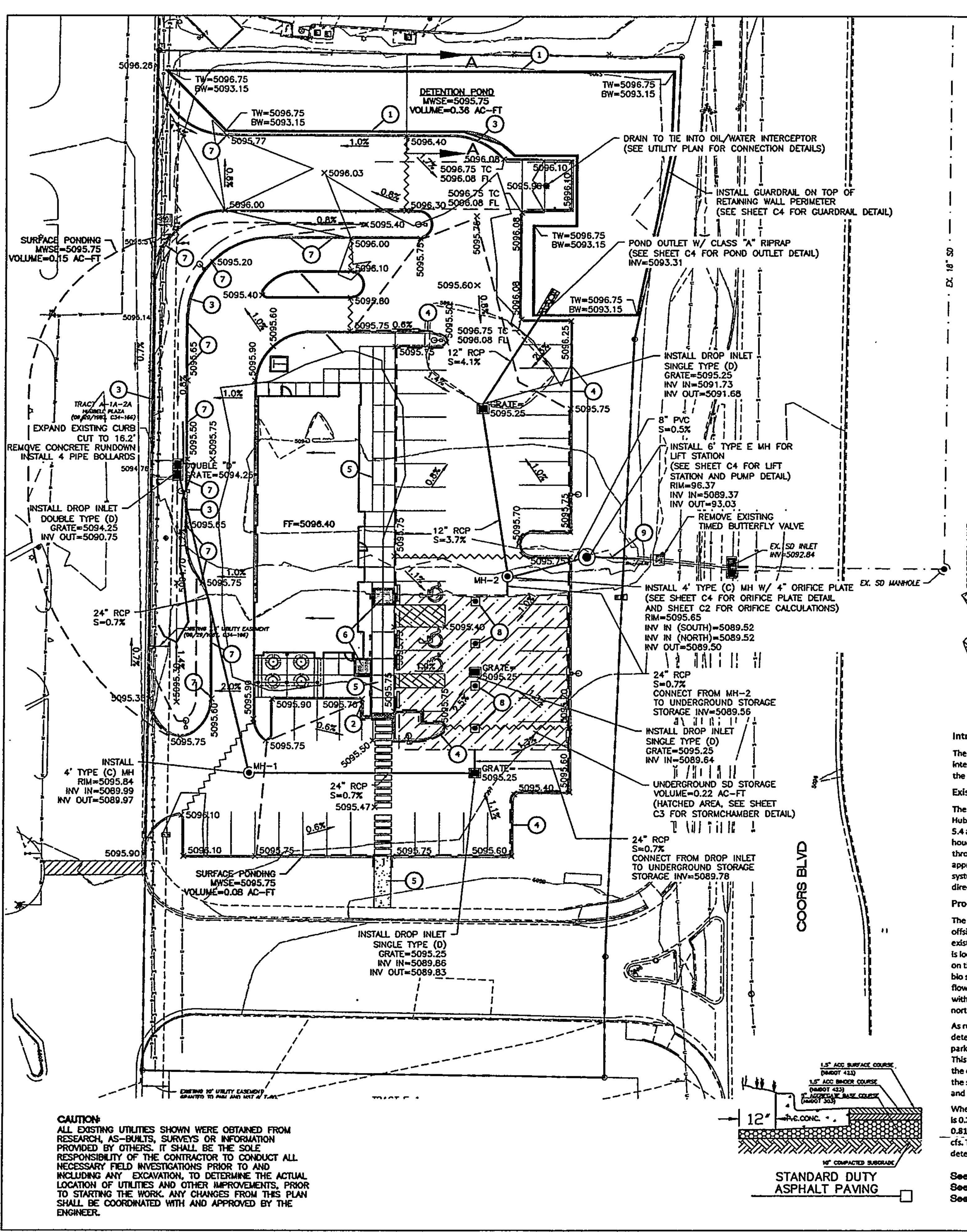
RE: FREDDY'S AT COORS AND CENTRAL AGREEMENT OF CHANGE IN CROSS LOT DRAINAGE

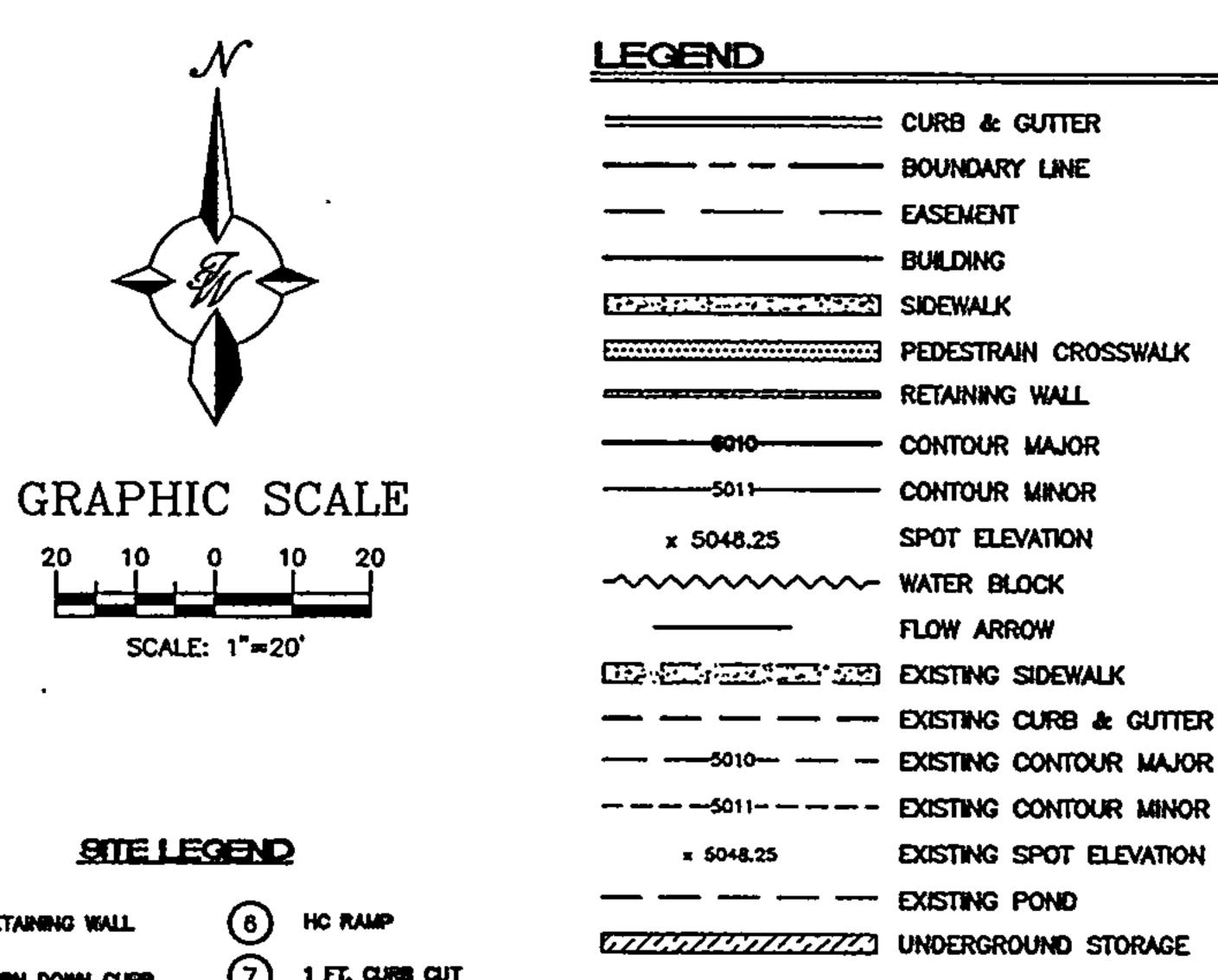
Dear Ms. Wolfenbarger:

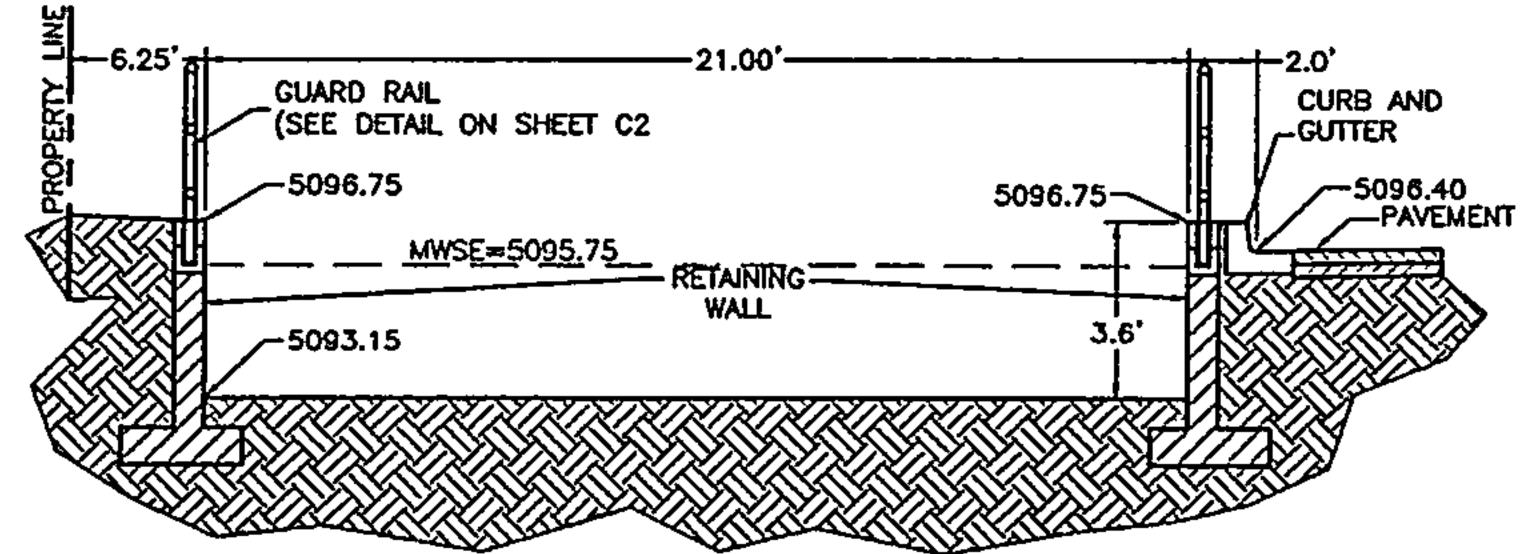
As property owner of Tract A-1A-2A of the Hubbell Plaza, this letter acknowledges the increase in water surface profile on the tract and is accepting of that increase. Shown on the Hubbell Plaza plat recorded on September 29, 1987 is the drainage agreement showing and providing for the existing cross-lot drainage on the development of Tract D-1 of the Hubbell Plaza. I acknowledge that the maximum water surface elevation of the ponding in the parking lot of Tract A-1A-2A will rise to a depth of twelve (12) inches from the existing six (6) inches during the 100-year, 6-hour storm event and will continue to outfall through Tract D-1.

Michael Bushell
Print Name
Signature Author: 201 Agent
Title 6-2-15
Date

Phone/Fax: 303-318-0100







Introduction

(5) CONCRETE SIDEWALK

The purpose of this submittal is to provide a drainage management plan for the proposed Freddy's restaurant located near the intersection of Coors Blvd. and Central Ave. in Albuquerque, New Mexico. The site contains approximately 1.45 acres and located within the Hubbell Plaza Shopping Center. The site lies outside of any flood plains (FIRM Map 35001C0329H).

SECTION A-A

Existing Conditions

The site is part of an approved drainage plan titled "Coors & Central Shopping Center" (K10-D018). The location is tract D-1 within the Hubbell Plaza Shopping Center and is currently a detention pond for 5.4 acres of the shopping center. The site collects all flows from the 5.4 acres via surface flow through a concrete channel located on the west side of the site. The pond holds all flows for a minimum of 2 hours before being discharged through an 8-inch connecting pipe on the east side of the site. A delay timer is used to discharge the pond through the 8-inch pipe towards the back of a catch basin located on Coors Bivd. and into the street storm drain system. Per the approved drainage plan calculations, the pond is designed to hold 30,068 cubic feet of runoff and discharge to the Coors storm drain system at a rate of 1.08 cfs. Flows from the tract directly north are not directed towards the existing pond onsite, these flows are directed north and away from the subject site and have no impact on the drainage.

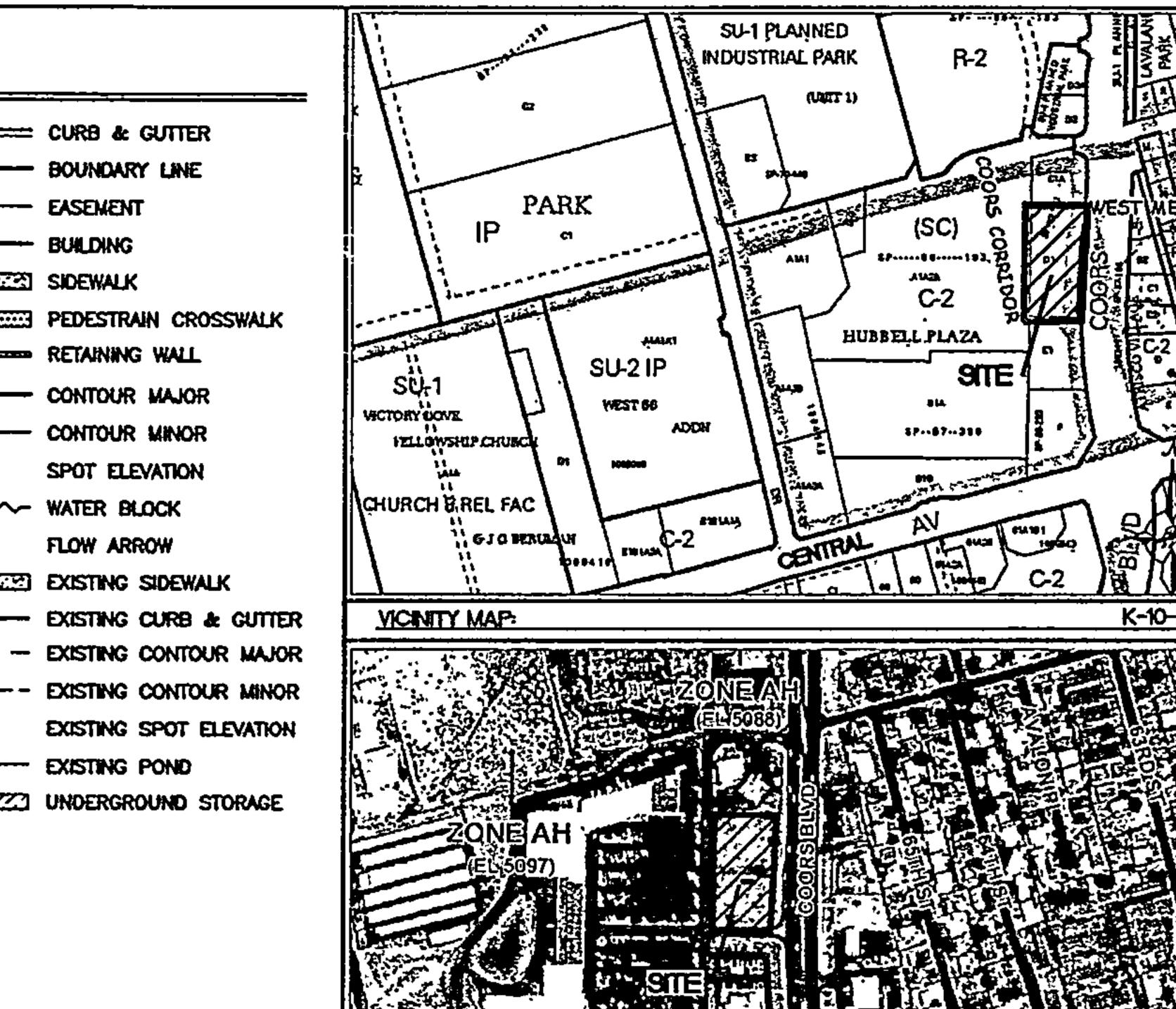
Proposed Conditions

The subject site will continue to collect all flows from the offsite area of the shopping center and detain in a subsurface system. The offsite flows will drain via surface flow through both driveway aisles and through a curb cut on the west side of the site where the existing concrete channel lies. The offsite flows through the south driveway and curb cut will be collected into a Double D Drop Inlet that is located in a bio swale on the western side of site. The offsite flows through the north driveway will be collected in the detention pond on the north side of the site. All flows from the west side of the building and directly north of the building will be directed towards the bio swale and into the Double D Drop Inlet. Flows from the north driveway aisle will be directed towards the detention pond. All other flows from the site will be directed to three Single D drop Inlets in the parking lot. The Double D Inlet will interconnect via storm drain with the southern Single D inlet and an underground storage system. The detention pond will interconnect via storm drain with the northernmost Single D inlet and the underground storage system.

As runoff volume increases and fills up the underground storage system completely, the interconnecting storm drains, drop inlets and detention pond will act as an equalizing system and allow runoff to be stored in both the detention pond and on the surface of the parking lot and bio swale. During the 100 year-6 hour storm, the maximum water surface elevation for the detention system is 5095.75. This water surface elevation allows 6 inches of ponding depth in the parking lot and 18 inches of ponding in the bio swale and is below the elevation of the finished floor of the building (5096.40). Emergency overflow of the water surface elevation would send flows over the southeast part of the parking lot and onto Coors Blvd. The detention system will outflow through a 4" orlfice plate located at MH-2 and will be sent to a Grindex pump system to outfall towards the existing catch basin on Coors.

When the maximum water surface elevation is reached; the volume of the detention pond is 0.36 ac-ft, volume of underground storage is 0.22 ac-ft, and the volume of surface ponding is 0.23 ac-ft. This gives a total storage volume of 0.81 ac-ft equivalent to the required 0.81 ac-ft of storage required for developed runoff. The orifice plate at MH-2 will control the outflow to the required discharge of 1.08 cfs. The detention pond and underground storage system will capture sediment within the bottom of each respective area, the detention pond outlet will be raised 0.16ft above the pond bottom to retain the first flush volume of the site.

See sheet C2 for DPM calulations, Grate capacity, Pipe capacity, Orifice Calcs, and Basin Map See sheet C3 for Underground StormChamber configuration and details See sheet C4 for Pump Details and Site Details



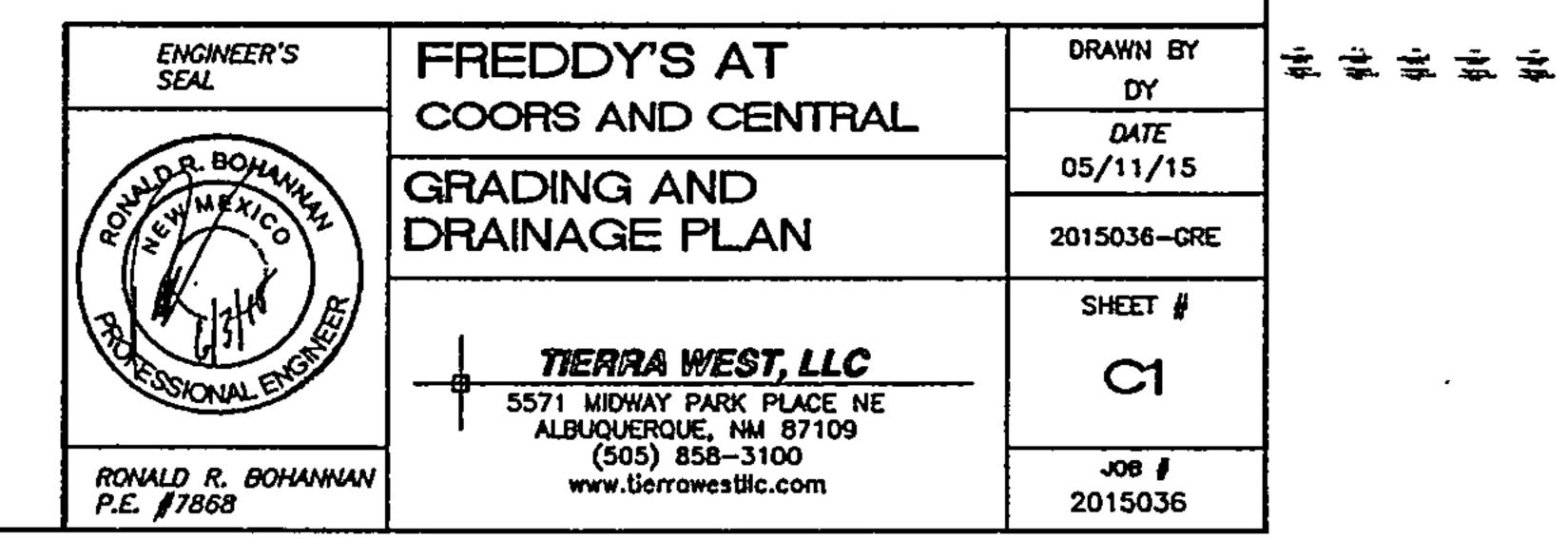
EROBION CONTROL NOTES:

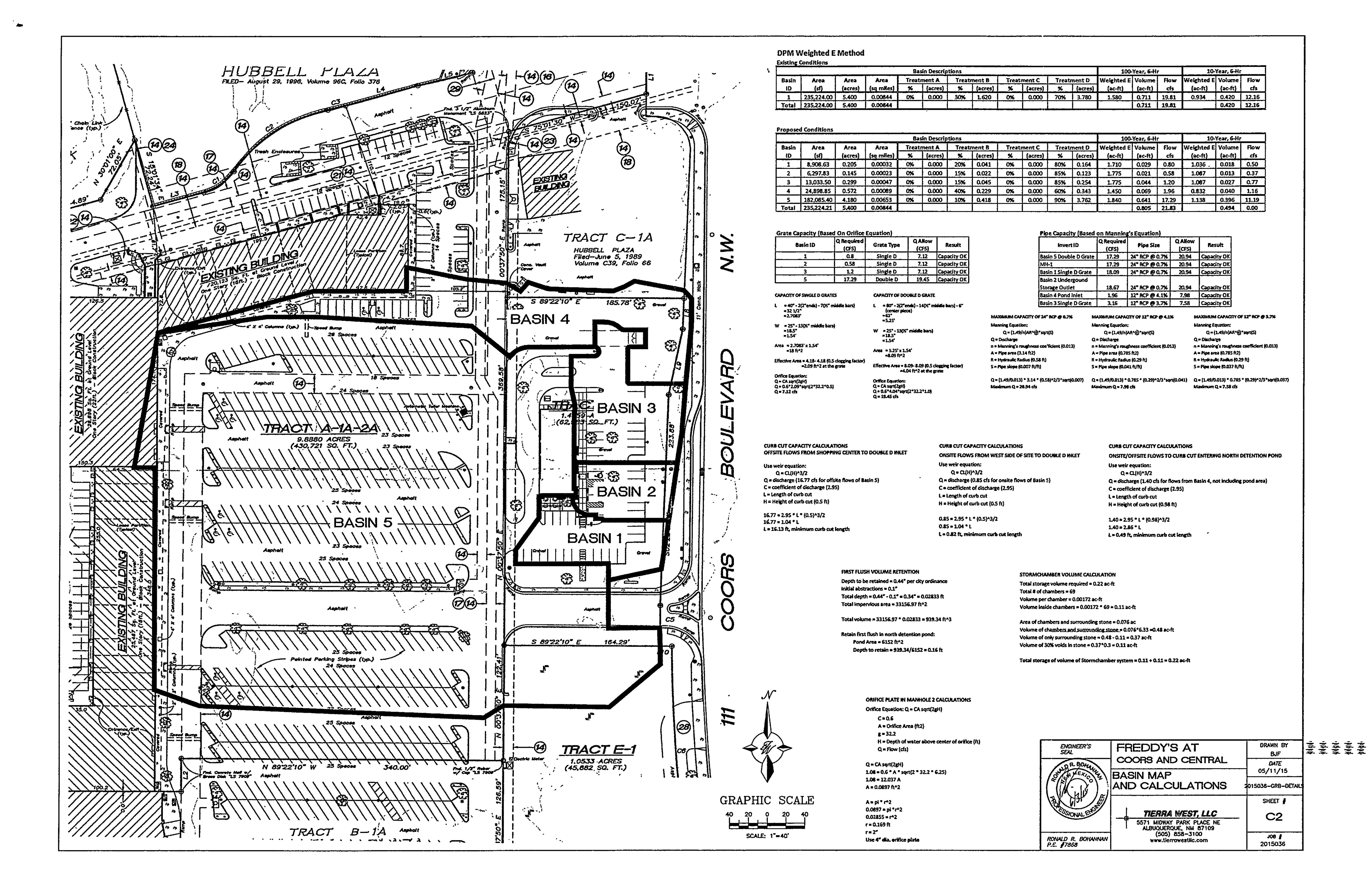
- 1. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- 2. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT—OF—WAY.
- 3. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

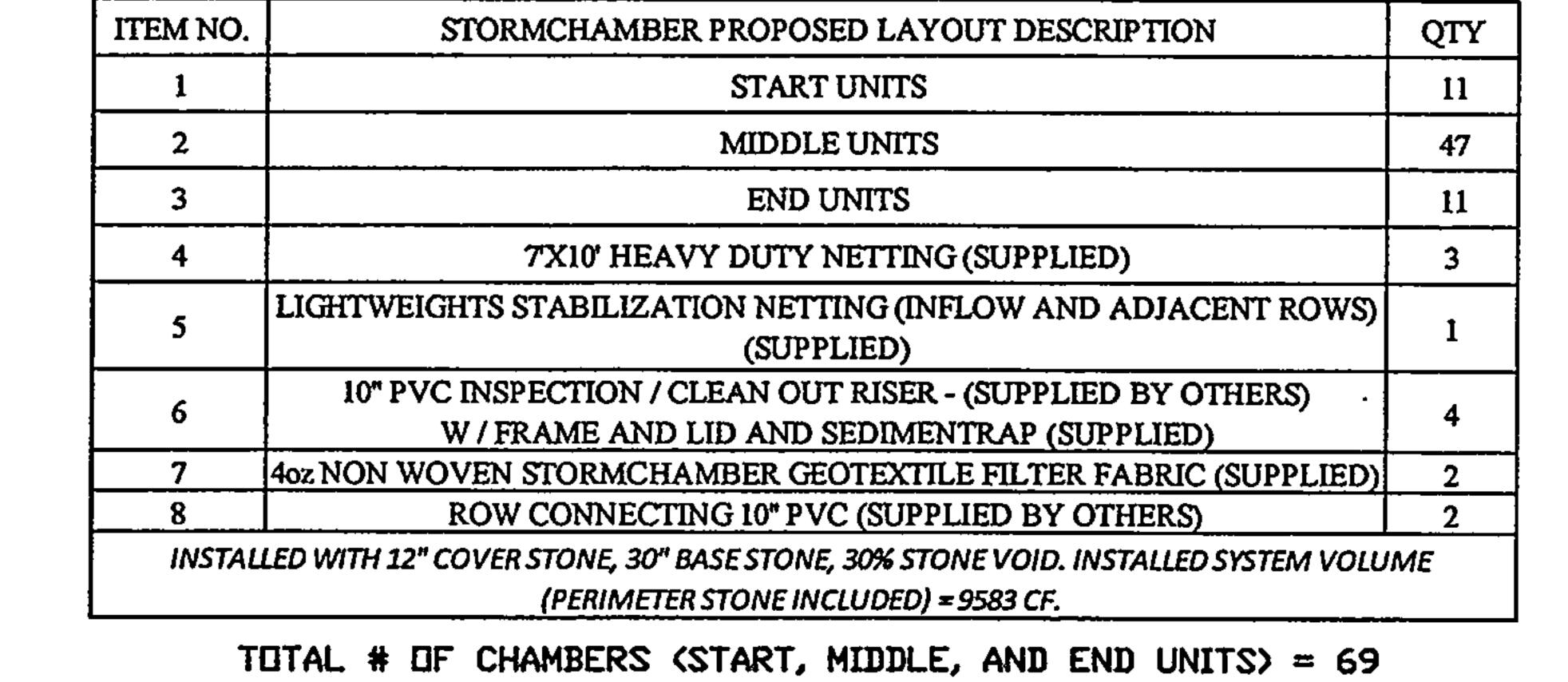
NOTICE TO CONTRACTORS

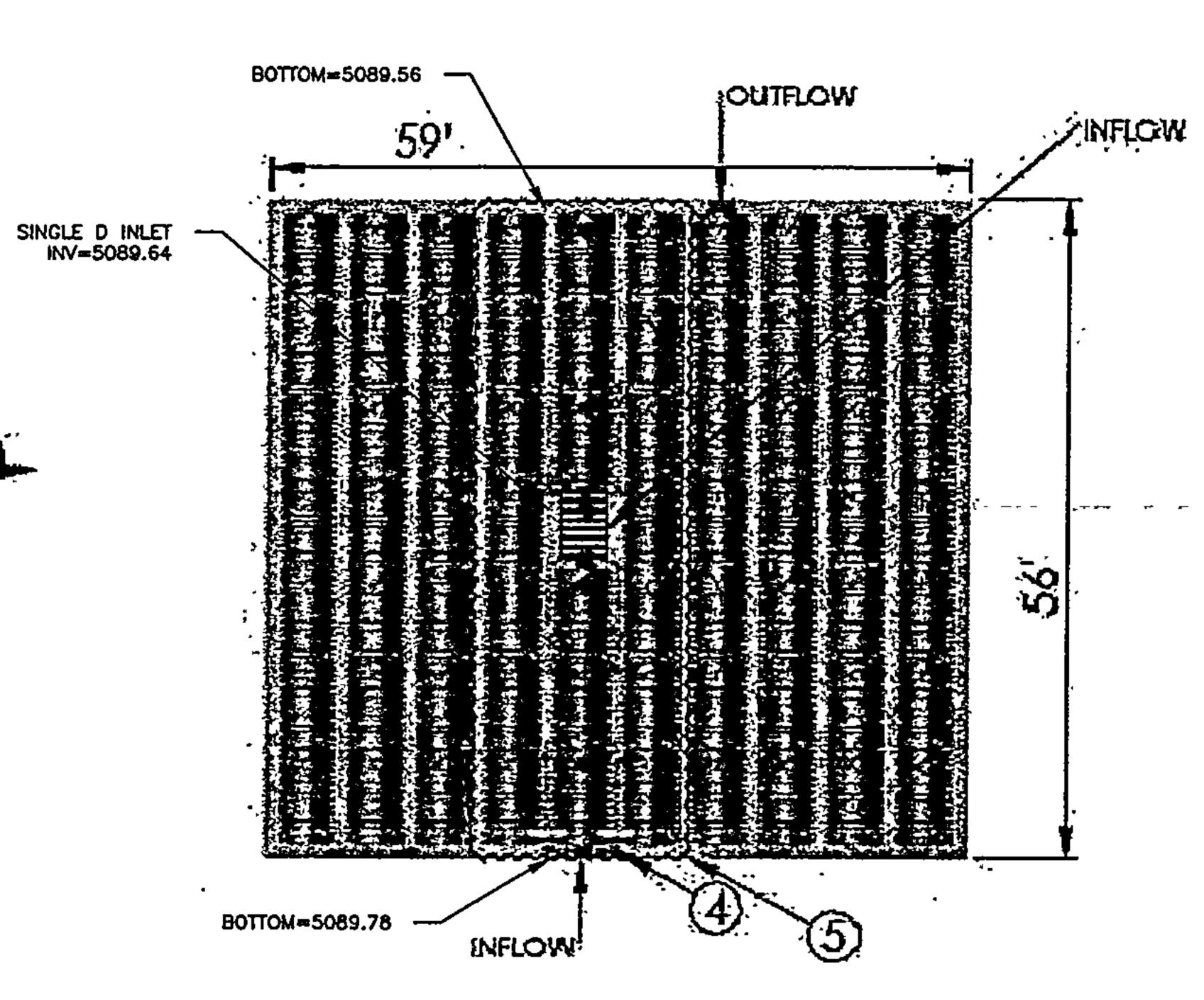
- 1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HERON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765—1234, FOR LOCATION OF EXISTING UTILITIES.
- 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
- 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED. 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24—HOUR BASIS.

APPROVAL	NAME	DATE
INSPECTOR		



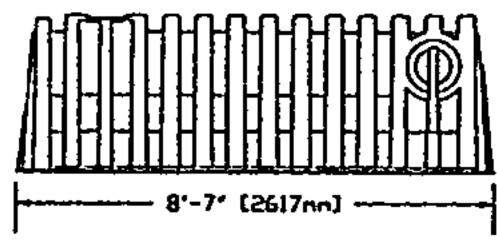


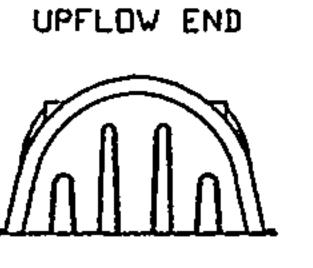




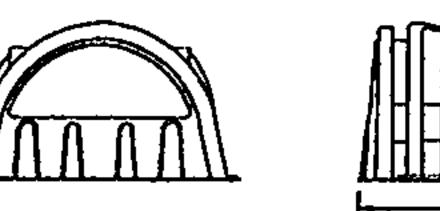
DOWNFLOW END

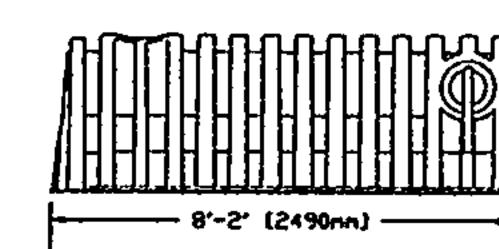


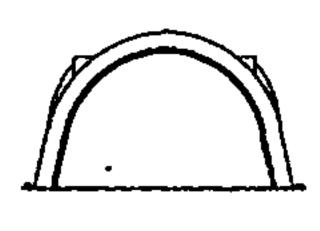




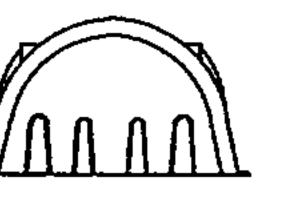
START CHAMBER CONFIGURATION START MODEL IS CLOSED AT THE SIDE PORTAL END AND PARTIALLY OPEN AT THE TOP PORTAL END

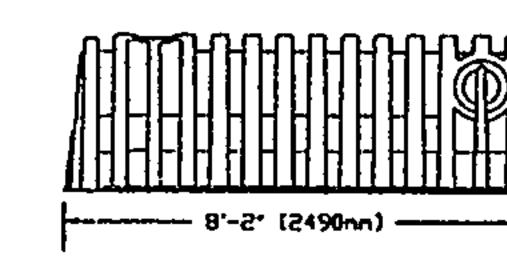


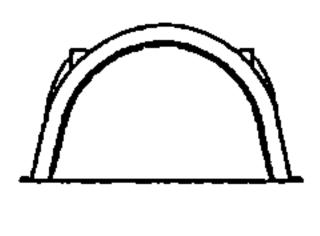




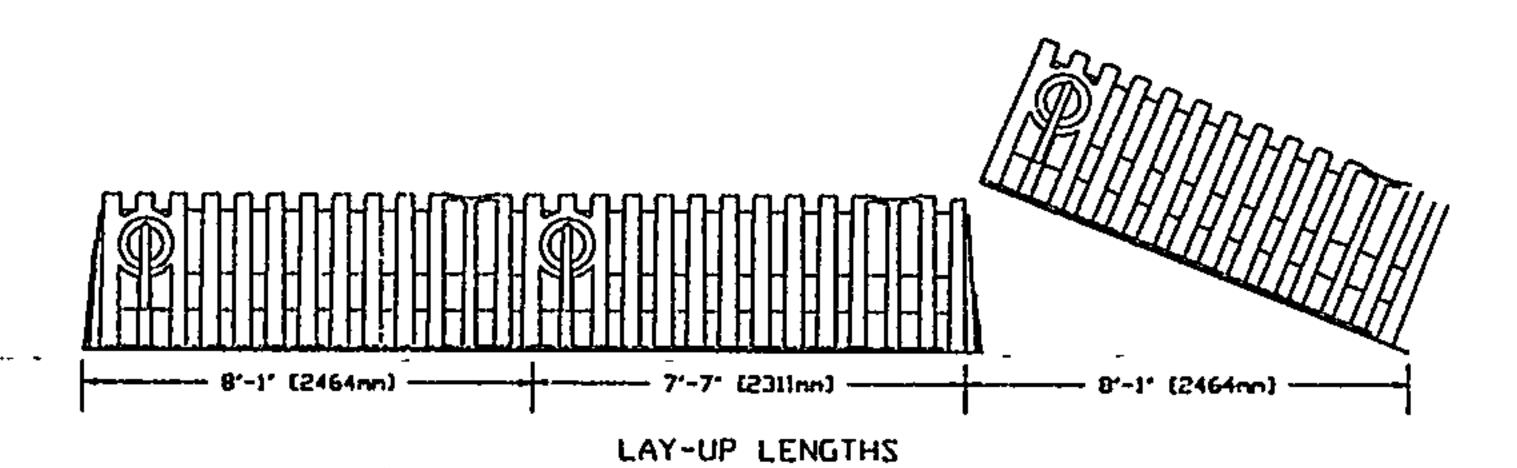
MIDDLE CHAMBER CONFIGURATION MIDDLE MODEL IS COMPLETELY OPEN AT THE SIDE PORTAL END AND PARTIALLY OPEN AT THE TOP PORTAL END



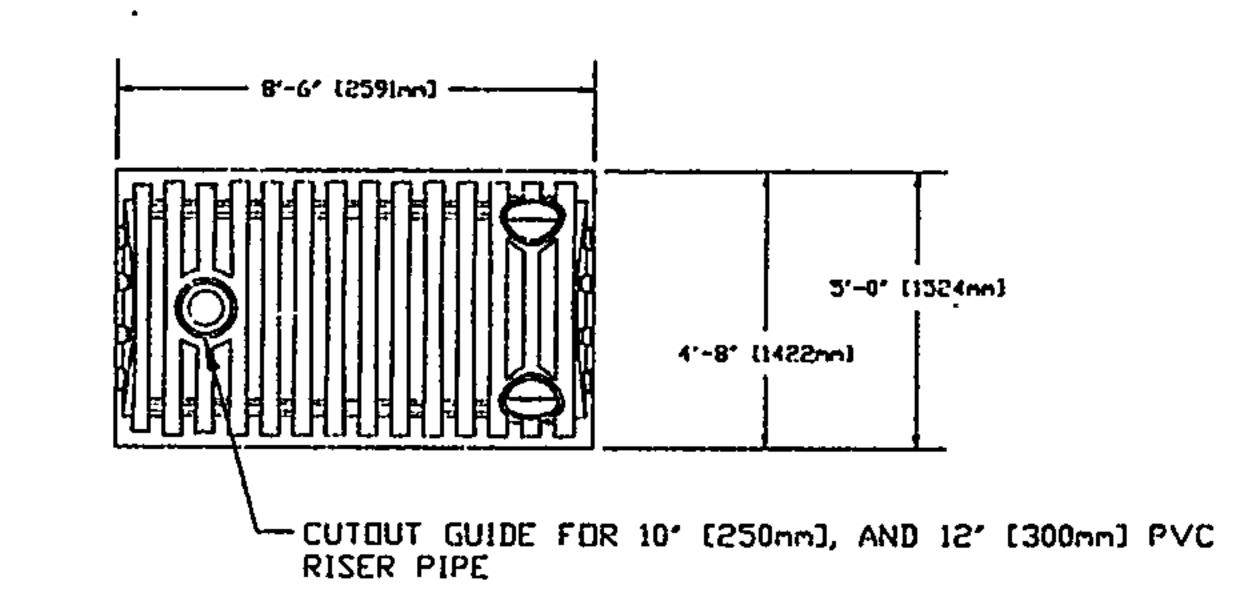


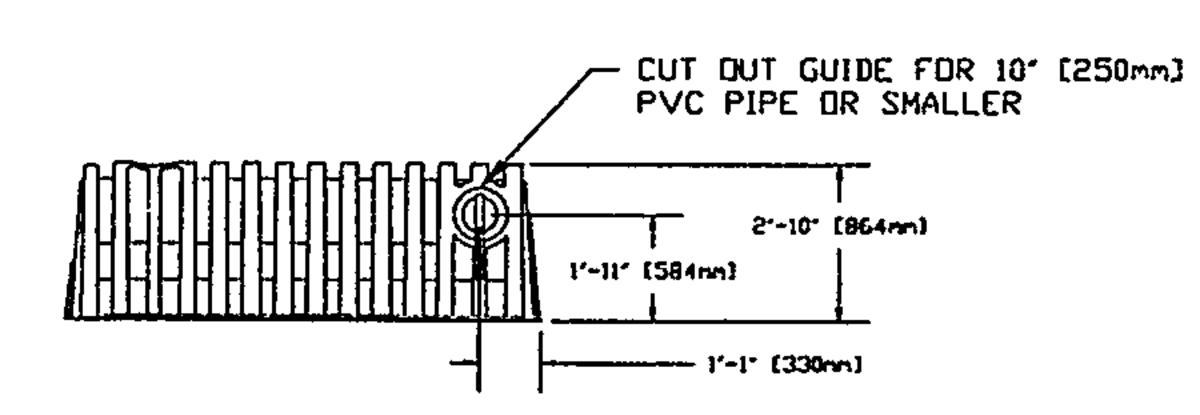


END CHAMBER CONFIGURATION END MODEL IS COMPLETELY OPEN AT THE SIDE PORTAL END AND COMPLETLY CLOSED AT THE TOP PORTAL END



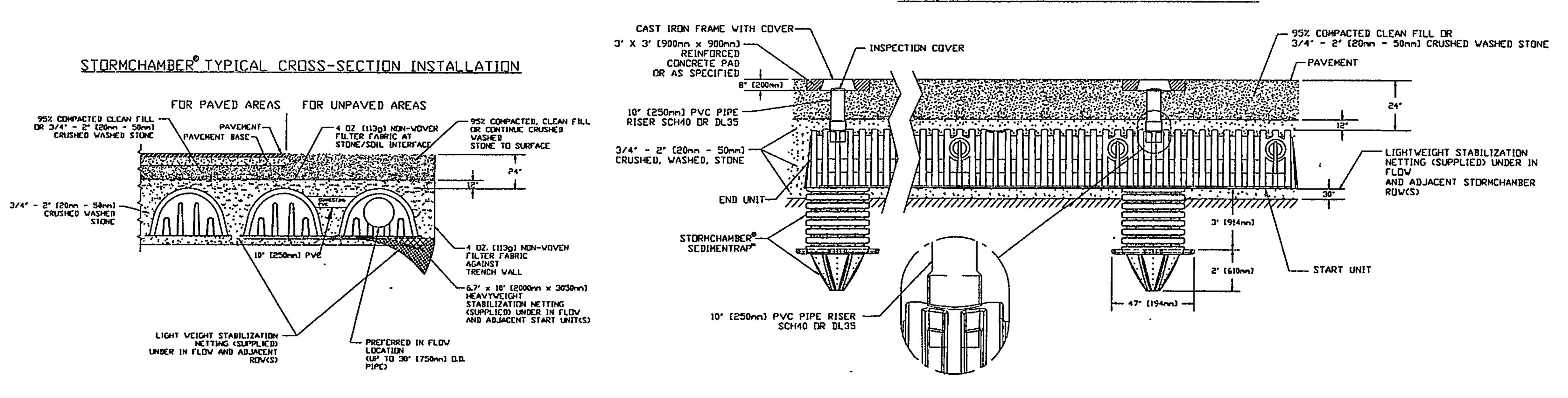
NOTE: 1. Start chanbers (closed at the side portal end) are placed at the inflow end of the rows. 2. Begin placements with Start chambers and end rows with End chambers. 3. Place first rib of next chamber in the row over last rib of previous chamber.



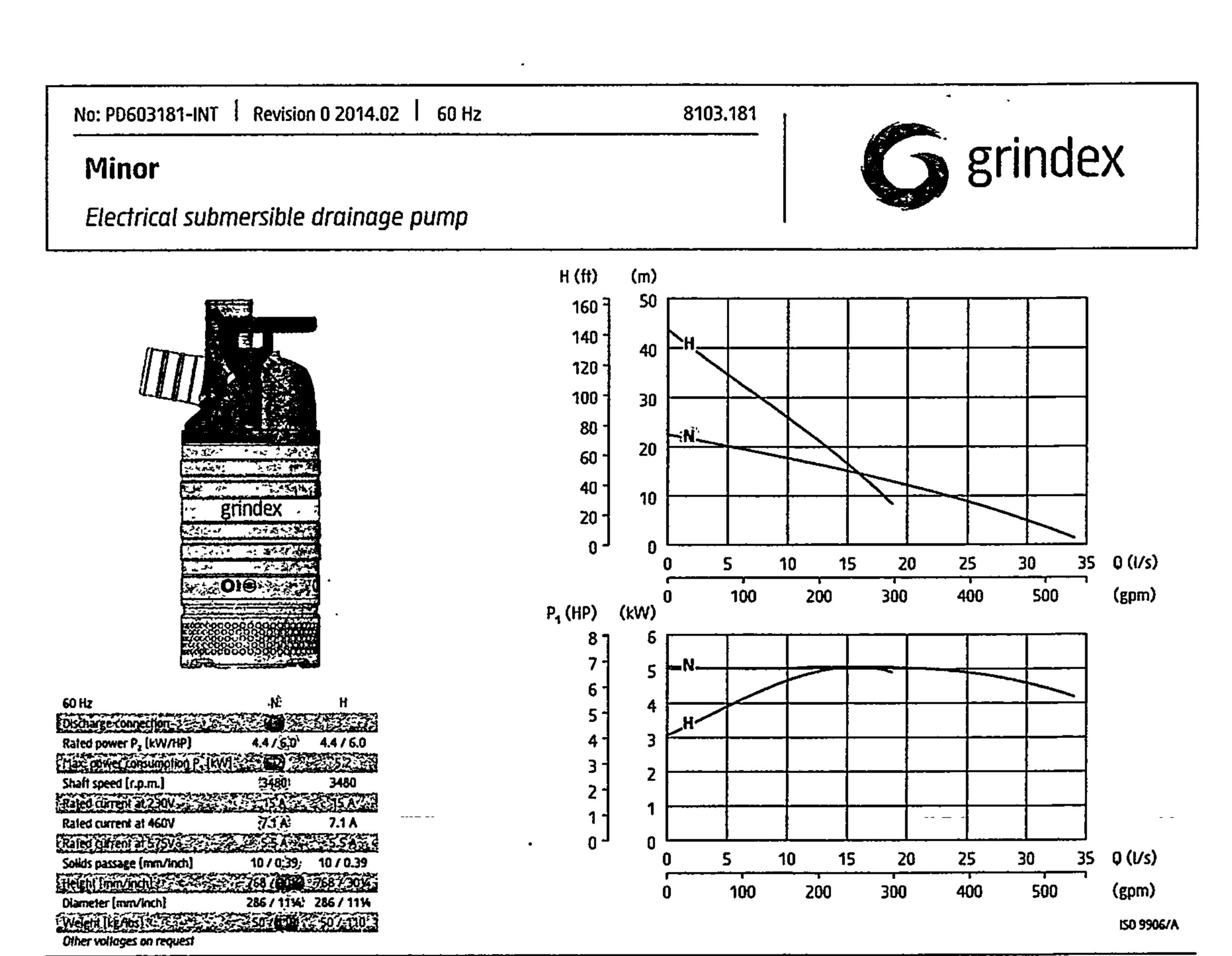


ENGINEER'S SEAL	FREDDY'S AT	DRAWN BY BJF	
STANGE BOTTONE	COORS AND CENTRAL STORMCHAMBER	<i>DATE</i> 05/11/15	
CONTRACTOR SERVICE SER	STORAGE SYSTEM	2015036-CRB-DETAILS	
13 8 34 /E/		SHEET #	
TO DE LE LES PROPERTON DE LA CONTRE LE	TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109	- С3	
RONALD R. BOHANNAN P.E. #7868	(505) 858-3100 www.tierrowestlic.com	JOB # 2015036	

STORMCHAMBER® WITH SEDIMENTRAP"



RISERS W\SEDIMENT



Pump types
N: normal pressure
H: high pressure

Classification

Electrical submersible drainage pump Protection class: IP 68

Electrical motor

Squirrel cage induction motor, insulation class: H (IEC 85)

Motor protection

Phase sequence control, phase failure guard, temperature guard with thermal contacts in the stator opening temperature 140°C (284°F) (= SMART system), air valve

Cable - SubCab

4G2,5mm², length 20 m or 14AWG/4, length 53 ft

Limitations

Max. submersion depth: 20 m (66 ft)
Max. liquid temperature: 40 °C (104 °F)

Allowed pH range: 5 - 8

Maximum liquid density: 1100 kg/m³ (68 lbs/ft³)

Shaft seats

Cartridge seal: pre-assembled double mechnical seal running in an oil compartment

Material lower seal: silicon carbide - silicon carbide Material upper seal: tungsten carbide - aluminium oxide

Bearings

Ball bearings with C3 clearance

Discharge connection

3-4" hose, ISO-G or NPT

Materials

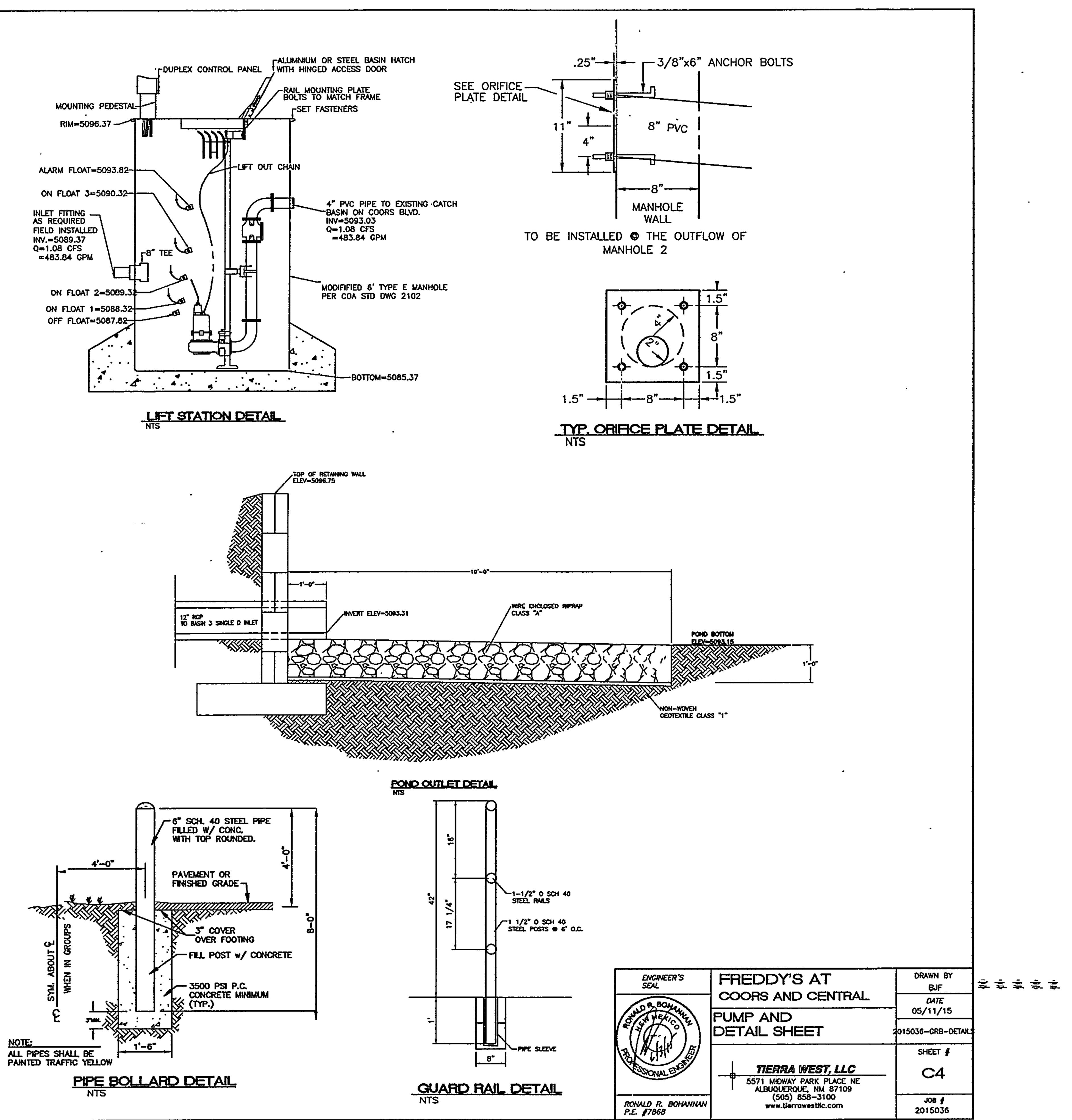
Casted parts: Aluminium
Outer casing: Stainless steel
Motor shaft: Stainless steel
Impeller and suction cover: Hard-Iron™
Diffusers: Nitrile rubber
Screws and nuts: Stainless steel
O-rings: Nitrile rubber

Accessories

Level regulator
Zinc anodes
Tandem connection
Low suction collar
Pump raft

GRINDEX PUMP DETAIL

NTS



Wolfenbarger, Jeanne

From:

Wolfenbarger, Jeanne

Sent:

Monday, June 01, 2015 4:37 PM

To:

'Vinny Perea'

Subject:

Freddy's (Formerly Whataburger)

Vinny,

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- A. An agreement from adjacent property owner to the west acknowledging the increase in 100-year water surface elevation to what is shown on the plan at a distance of "X" above existing ground.
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- C. Add a grease trap connection for the dumpster with a couple of added spot elevation showing drainage to the grease trap.

Thanks!

Jeanne



DATE SUBMITTED: 5/18/2015

City of Albuquerque

Planning Department

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013) City Drainage #: K ODO B Project Title: Freddy's (Previously Whataburger) Work Order#: EPC#: DRB#: Legal Description: TR D-1 Plat of Hubbell Plaza City Address: 111 Coors Blvd. NW Albuquerque, NM 87121 Contact: Ronald R. Bohannan Engineering Firm: Tierra West, LLC Address: 5571 Midway Park Place NE Albuquerque, NM 87109 E-mail: rrb@tierrawestllc.com Phone#: 505-858-3100 Fax#: 505-858-1118 Contact: Michael Bushell Owner: Oak Realty Partners, Inc. Address: 5975 S Quebec Street, Suite 141 Greenwood Village, CO 80111 Phone#: 303-318-0100 E-mail: Fax#: Architect: Contact: Address: E-mail: Fax#: Phone#: Surveyor: Contact: Address: Phone#: Fax#: E-mail: Contact: Contractor: Address: Fax#: E-mail: Phone#: TYPE OF SUBMITTAL: CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT: DRAINAGE REPORT SIA/FINANCIAL GUARANTEE RELEASE DRAINAGE PLAN 1st SUBMITTAL PRELIMINARY PLAT APPROVAL DRAINAGE PLAN RESUBMITTAL S. DEV. PLAN FOR SUB'D APPROVAL S. DEV. FOR BLDG. PERMIT APPROVALIA CONCEPTUAL G & D PLAN MAY 1 9 2015 GRADING PLAN SECTOR PLAN APPROVAL EROSION & SEDIMENT CONTROL PLAN (ESC) FINAL PLAT APPROVAL LAND DEVELOPMENT SECTION ! ENGINEER'S CERT (HYDROLOGY) CERTIFICATE OF OCCUPANCY (PERM) CERTIFICATE OF OCCUPANCY (TCL TEMP) CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) FOUNDATION PERMIT APPROVAL ENGINEER'S CERT (TCL) BUILDING PERMIT APPROVAL ENGINEER'S CERT (DRB SITE PLAN) GRADING PERMIT APPROVAL SO-19 APPROVAL ENGINEER'S CERT (ESC) PAVING PERMIT APPROVAL ESC PERMIT APPROVAL ESC CERT. ACCEPTANCE SO-19 WORK ORDER APPROVAL OTHER (SPECIFY) OTHER (SPECIFY) **GRADING CERTIFICATION** WAS A PRE-DESIGN CONFERENCE ATTENDED: Copy Provided

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following

By: Vinny Perea

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
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- 4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

May 18, 2015

Ms. Jeanne Wolfenbarger, P.E. Senior Engineer, Planning Dept. City of Albuquerque PO Box 1293
Albuquerque, NM 87103

RE: FREDDY'S (PREVIOUSLY WHATABURGER), 111 COORS BLVD. NW GRADING AND DRAINAGE PLAN ENGINEER'S STAMP DATE 2-18-2015 (K10-D001B)

Dear Ms. Wolfenbarger:

Per your correspondence dated March 6, 2015, please find the following responses addressing the comments listed below:

- 1. The volume of on-site storage detention is shown to be based on the 100-year 6-hour storm event. Provide a hydrograph which shows that 90% of the storage volume will be discharged from the site within 6 hours, as per Drainage Ordinance. Response: An AHYMO hydrograph was provided to your office with the COA at an earlier date showing the amount of time to discharge the runoff from the site. A letter from you, dated 3/24/2015, shows approval for action by EPC, this letter is approval for addressing the hydrograph request.
- 2. On the plan view for the "Grading and Drainage Plan", label all of the different detention volumes that correspond to the "Proposed Conditions" discussion which include the 0.43 ac-ft. detention pond, the 0.16 ac-ft surface pond, and underground storage of 0.22 ac-ft. Show the underground storage system area on the plan view for the "Grading and Drainage Plan", and label the connections from the new 24-inch storm drain two this underground storage system.

 Response: The detention volumes for surface ponding and the detention pond

Response: The detention volumes for surface ponding and the detention pond have changed slightly and were accounted for in the narrative discussion and calculations, still equating to the total 0.81 ac-ft of total storage. Detention volumes were added to each label calling out the maximum water surface elevations for the surface and detention ponding areas. The two surface ponding areas show ponding areas show 0.08 ac-ft and 0.15 ac-ft volumes for each, equating to the total 0.23 ac-ft for surface ponding. The north detention pond shows the volume to be 0.36 ac-ft. The underground storage system was hatched and called out on the "Grading and Drainage Plan" Sheet, the detention volume was added to this label as well (0.22 ac-ft). The two 24-inch storm drains that connect to the underground storage were labeled and show the invert elevations of where each connects.

- 3. There is a Section A-A on the "Grading and Drainage Plan" which shows pond elevations within the detention pond in the north area of the site. Provide more spot elevations within this area at the corners of the pond to ensure that there will be enough volume provided for the detention pond.
 - Response: Top of Wall and Bottom of Wall spot elevations are called out at the corners of the north area detention pond on the "Grading and Drainage Plan" sheet.
- 4. Eliminate the existing timed butterfly valve as discussed. If there are issues with the valve not operating properly, it will pose a risk to the site. The pipe discharging from the site to Coors Boulevard is at the upstream end of the existing storm drainage system, and it is discharging to a fairly steep 18-inch pipe in Coors Boulevard to convey the required 1.08 cfs. Therefore, due to the amount of existing pipe capacity to handle such a small amount of flow, there is no concern regarding elimination of the timed valve.
 - Response: The relocation of the existing timed butterfly valve was removed from the plan set on the "Grading and Drainage Plan" sheet, showing the valve to be removed completely from the site.
- 5. How is storm drainage getting to the Double-D inlet on the west side of the site? Provide capacity calculations for the 5.6-foot wide curb cut that is accepting the offsite flow from the west and adjust as necessary.
 - Response: Storm drainage on the west side of the building/site is directed towards the landscaped area, away from the building. This drainage is directed towards the Double D inlet through a series of 1 foot curb cuts along the east curb of this landscaped area, the locations of the cuts are marked on the Grading and Drainage Plan" sheet as keyed note 7. Capacity calculations for the curb cut accepting offsite flows from the west were added to the "Basin Map and Calculations" sheet. For the given offsite flows, the curb cut width needs to be 16.2 feet wide. The grading plan was modified for this change and concrete bollards were added within the curb cut to prevent vehicles from entering.
- 6. Provide capacity calculations for all of the curb cuts shown on the plan.
- Response: All curb cut calculations were added to the "Basin Map and Calculation's" sheet. These calculations are for 3 different curb cut areas: the length of cut accepting the offsite flows, the length of cut accepting flows from west side of site, and the cut accepting flows from Basin 4 into the detention pond.
 - The length of cut needed for the entire flows on the west side of site is 0.49 ft. The slope of the curb where this drainage would cross is relatively flat; therefore the series of 1-ft curb cuts are added to ensure that all drainage from this area can reach the double D inlet.
- 7. A summary table is provided for grate capacities and pipe capacities on the "Basin Map and Calculations" sheet. Please provide the calculations for these capacities. Response: The calculations for the grate capacities and pipe capacities were added to the "Basin Map and Calculations "sheet.

- 8. It is not clear if the subject site is accepting off-site flows from the site or how to the north will be impacted. Include discussion of off-site flows from the site or how the site to the north will be impacted. Include discussion of off-site flows from the site to the north to ensure that grading of the Whataburger site does not adversely impact this site.
 - Response: Flows from the site to the north are not affected by the development of our site. The curb along the southern end of the north site acts as a basin boundary between Basin 4 (onsite) and the northern tract basin (offsite). Flows south of this curb will be directed towards the onsite detention pond and is included in the drainage volume calculations. Flows north of this curb are directed west towards the shopping center access road and then flow north away from our site. Discussion of this was added to the "Existing Conditions" of the narrative on the "Grading and Drainage Plan" sheet.
- 9. The number of chambers shown on the "Basin Map and Calculations" sheet is 75. This needs to be called out on the plan view detail on the "Stormchamber Storage System" sheet to make sure right number of stormchambers will be installed. Also, please provide a legible table showing the dimensions for the stormchambers. Response: The number of chambers was reduced from 75 to 69. This was modified in the Stormchamber volume calculations and is called out on the plan view detail on the "Stormchamber Storage System" sheet. The table showing the material quantities and the cross sections of the chambers was modified to be more legible.

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

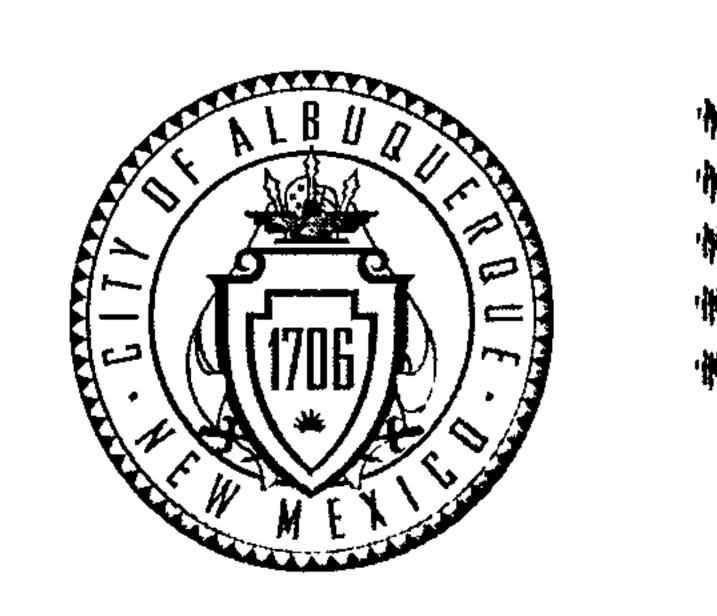
Ronald R. Bohannan, P.E.

JN: 2015036 Letter.docx

RRB/vp/cwg

Z.\2015\2015036 Freddy's at Coors and Central\Working Documents\2015036 15-05-12 Freddy's Coors and Central Draft

CITY OF ALBUQUERQUE



March 24, 2015

Ronald Bohannan, PE Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

RE: Whataburger

Grading and Drainage Plan

Engineer's Stamp Date 2-18-2015 (File: K10-D001B)

Dear Mr. Bohannan:

Based upon the information provided in your submittal received 2-20-15, the above referenced plan is approved for action by EPC and for action by DRB on the Site Plan for Building Permit.

PO Box 1293

Prior to Building Permit approval, the comments from the letter dated March 6, 2015 still need to be addressed. Comment 1 from this letter has already been satisfied based on the AHYMO data provided on March 17, 2015.

Albuquerque

If you have any questions, you can contact me at 924-3924.

New Mexico 87103

Sincerely,

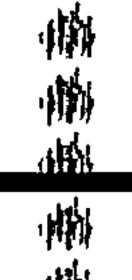
www.cabq.gov

Jeanne Wolfenbarger, P.E. Senior Engineer, Planning Dept. Development Review Services

Orig: Drainage file

c.pdf Addressee via Email

Wolfenbarger, Jeanne



From:

Vinny Perea <vperea@tierrawestllc.com>

Sent:

Tuesday, March 17, 2015 2:28 PM

To:

Wolfenbarger, Jeanne

Subject:

RE: K10D001B - Whataburger

Attachments:

AHYMO.OUT

Jeanne,

Here's an updated AHYMO run for yours and Curtis' review. 100% of the volume leaves at 10.35 hours and 90% of the volume leaves at 9.4 hours. Let me know if you need anything else.

Thank you, Vinny

----Original Message-----

From: Wolfenbarger, Jeanne [mailto:jwolfenbarger@cabq.gov]

Sent: Tuesday, March 17, 2015 2:16 PM

To: Vinny Perea

Subject: RE: K10D001B - Whataburger

Vinny, in looking over this AHYMO Run that you provided, Curtis asked that the time versus outflow table be run until the outflow is shown to be 0 cfs. When does 100% of the volume leave? (Could you provide another AHYMO run to show this?)

Jeanne

----Original Message-----

From: Vinny Perea [mailto:vperea@tierrawestllc.com]

Sent: Tuesday, March 17, 2015 8:58 AM

To: Wolfenbarger, Jeanne

Cc: Cherne, Curtis

Subject: RE: K10D001B - Whataburger

Jeanne,

Attached is the AHYMO output file for the pond. 90% of the volume leaves 0.08 ac-ft that can be left behind, from looking at the output file this means that this amount of volume would leave the site in about 9.4 hours. The 8.17 value was looking from running the model at a slightly higher discharge rate, which was my mistake. Let me know your thoughts or if you have any questions.

Thanks,

Vinny

----Original Message-----

From: Wolfenbarger, Jeanne [mailto:jwolfenbarger@cabq.gov]

Sent: Tuesday, March 17, 2015 8:28 AM

To: Vinny Perea Cc: Cherne, Curtis

Subject: RE: K10D001B - Whataburger

We would not want to consider discharging the extra flow over the allowable discharge.

Since you know it discharges 90% of the volume in 8.17 hours, could you send the drain time table from AHYMO or the stage discharge table?

Thanks!

Jeanne

----Original Message-----

From: Vinny Perea [mailto:vperea@tierrawestllc.com]

Sent: Monday, March 16, 2015 4:20 PM

To: Wolfenbarger, Jeanne

Cc: Cherne, Curtis

Subject: RE: K10D001B - Whataburger

Jeanne,

For the discharge to be 1.08 cfs, 90% of the volume would discharge in 8.17 hours

Vinny

----Original Message-----

From: Wolfenbarger, Jeanne [mailto:jwolfenbarger@cabq.gov]

Sent: Monday, March 16, 2015 4:09 PM

To: Vinny Perea Cc: Cherne, Curtis

Subject: RE: K10D001B - Whataburger

Vinny, do you know exactly how many hours it would take to discharge 90% of the volume?

Jeanne

----Original Message-----

From: Vinny Perea [mailto:vperea@tierrawestllc.com]

Sent: Monday, March 16, 2015 2:11 PM

To: Wolfenbarger, Jeanne

Subject: RE: K10D001B - Whataburger

Hi Jeanne,

After running the model for the ponding on the Whataburger site, the 1.08 cfs outfall would discharge 90% of the volume in over 6 hours. In order to discharge 90% of the volume in 6 hours, the outfall would have to be 1.83 cfs. Would

this discharge value be allowable? I know you mentioned that we are at the upstream end of the Coors storm drain system and that the pipe capacity is far greater than what we are trying to discharge from the site. Please let me know your thoughts.

Thank you,

Vinny Perea Engineer Intern, EIT

Tierra West, LLC 5571 Midway Park Pl. NE Albuquerque, NM 87109 Office: (505) 858-3100 Fax: (505) 858-1118 1-800-245-3102 www.tierrawestllc.com

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----Original Message-----

From: Wolfenbarger, Jeanne [mailto:jwolfenbarger@cabq.gov]

Sent: Friday, March 06, 2015 2:37 PM

To: Vinny Perea

Subject: K10D001B - Whataburger

Vinny,

Please see attached comment letter for Whataburger. As discussed yesterday, this drainage layout is fine for a conceptual layout as long as Comment 1 on the hydrograph is addressed. The other comments can be addressed post-EPC prior to getting a building permit.

Jeanne

If this email is spam, report it to

https://support.onlymyemail.com/view/report_spam/MTkzNTI4OjE3NDY4MDE1MTM6dnBlcmVhQHRpZXJyYXdlc3RsbG MuY29tOmRlbGl2ZXJIZA If this email is spam, report it to https://support.onlymyemail.com/view/report spam/MTkzNTI4OjE3NDk4ODQyNTk6dnBlcmVhQHRpZXJyYXdlc3RsbGM uY29tOmRlbGl2ZXJIZA

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MuY29t0mRlbGl2ZXJlZA

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AHYMO

```
- Version: S4.01a - Rel: 01a
       AHYMO PROGRAM (AHYMO-S4)
            RUN DATE (MON/DAY/YR) = 03/17/2015
            START TIME (HR:MIN:SEC) = 14:22:43
                                                USER NO.=
AHYMO_Temp_User:20122010
            INPUT FILE = Z:\2014\2014075 Whataburger Coors & Central\Working
Documents\2014075 Hymo.txt
    ***********
   100-YEAR 6-HR STORM (UNDER PROPOSED CONDITIONS) W/ ROUTING
                      TIME=0.0
    START
                      TYPE=1 RAIN QUARTER=0.0 IN
    RAINFALL
                      RAIN ONE=1.87 IN RAIN SIX=2.20 IN
                      RAIN DAY=2.66 IN DT=0.05 HR
                 6-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE
AREAS (NM & AZ) -
                                                         6.000000 HOURS
                        0.050000 HOURS
                                            END TIME =
                           0.0022
                                                0.0096
                   0.0000
                                  0.0045
                                         0.0069
                                                         0.0123
                                                                0.0154
                           0.0264
                                  0.0336
                                                 0.0494
                   0.0197
                                          0.0412
                                                         0.0578
                                                                0.0664
                           0.0844
                                  0.0946
                                                        0.1387
                   0.0753
                                          0.1052
                                                 0.1168
                                                                0.1657
                                          0.3614
                   0.2020
                                                 0.4375
                                                        0.5689
                                  0.2937
                                                                0.7733
                           0.2430
                           1.3695 1.5635 1.6610
                   1.1234
                                                1.7465
                                                         1.8079
                                                                1.8568
                   1.8994
                           1.9306
                                  1.9592
                                          1.9828
                                                 1.9979
                                                         2.0087
                                                                2.0183
                   2.0273
                           2.0352
                                          2.0499
                                                 2.0568
                                                         2.0625
                                  2.0426
                                                                2.0659
                   2.0692
                                  2.0754
                                                         2.0842
                           2.0724
                                          2.0784
                                                 2.0813
                                                                2.0870
                   2.0896
                           2.0923
                                  2.0949
                                          2.0974
                                                 2.0999
                                                         2.1023
                                                                2.1046
                   2.1069
                           2.1092
                                  2.1115
                                          2.1136
                                                 2.1158
                                                         2.1179
                                                                2.1199
                                                 2.1299
                   2.1220
                           2.1240
                                  2.1260
                                          2.1280
                                                         2.1318
                                                                2.1337
                                  2.1392
                                          2.1411
                    2.1356
                                                 2.1428
                                                         2.1446
                           2.1374
                                                                2.1463
                                  2.1514
                           2.1498
                                         2.1531
                                                 2.1548
                                                         2.1564
                                  2.1628
                   2.1596
                           2.1612
                                          2.1643
                                                 2.1658
                                                        2.1674
                                                                2.1689
                   2.1704
                           2.1718
                                  2.1733
                                          2.1747
                                                 2.1762 2.1776
                                                                2.1790
                                  2.1832 2.1845 2.1859 2.1872
                   2.1804
                           2.1818
                                                               2.1885
                                          2.1937 2.1950 2.1963 2.1975
                   2.1899
                           2.1912
                                  2.1925
                   2.1988 2.2000
    *OVERALL BASIN FOR SITE
                      ID=1 HYD NO=100.1 AREA=.00873 SQ MI
    COMPUTE NM HYD
                      PER A=0.00 PER B=14.00 PER C=0.00 PER D=86.00
                      TP=-0.1333 HR MASS RAINFALL=-1
        K = 0.072649HR TP = 0.133300HR
                                            K/TP RATIO = 0.545000
                                                                      SHAPE
CONSTANT, N = 7.106428
        UNIT PEAK = 29.641 CFS
                                                                     526.28
                                    UNIT VOLUME = 0.9988
                                                               B =
 P60 = 1.8700
                  0.007508 \text{ SQ MI} IA = 0.10000 \text{ INCHES}
                                                          INF =
                                                                  0.04000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000
        K = 0.130992HR TP = 0.133300HR K/TP RATIO = 0.982685
                                                                      SHAPE
CONSTANT, N = 3.593298
        UNIT PEAK = 2.9989 CFS
                                    UNIT VOLUME = 0.9966
                                                                     327.08
                                                               B =
 P60 = 1.8700
                                    Page 1
```

AHYMO

AREA = 0.001222 SQ MI IA = 0.50000 INCHES INF = 1.25000

INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000

PRINT HYD

ID=1 CODE=1

PARTIAL HYDROGRAPH 100.10

RUNOFF VOLUME = 1.79960 INCHES = 0.8379 ACRE-FEET
PEAK DISCHARGE RATE = 23.40 CFS AT 1.500 HOURS BASIN AREA = 0.0087 SQ. MI.

. .

*ROUTE OVERALL BASIN THROUGH OVERALL DETENTION SYSTEM

ROUTE RESERVOIR

TD_11 UVD NO-	=101.1 INFLOW I	1_1_CODE_1
	STORAGE (AC-FT)	
7	0.0000	5084.47
	0.0003	5084.93
	0.0006	5085.43
1.0803	0.0009	5085.43
1.0804	0.0013	5086.43
1.0805	0.0016	5086.93
1.0806	0.0019	5087.43
1.0807	0.0216	5087.43
1.0808	0.0427	5088.43
1.0809	0.0427	5088.93
1.0810	0.0846	5089.43
1.0811	0.1057	5089.93
1.0812	0.1267	5090.43
1.0813	0.1479	5090.93
1.0814	0.1690	5091.43
1.0815	0.1901	5091.93
1.0816	0.2593	5092.43
1.0817	0.3451	5092.93
1.0818	0.4163	5093.43
1.0819	0.4873	5093.93
1.0820	0.5274	5094.18
1.0821	0.5784	5094.43
1.0822	0.6587	5094.68
1.0823	0.8102	5094.93
		- -

* * * * * * * * * * * * *

TIME	INFLOW	ELEV	VOLUME	OUTFLOW
(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)
0.00 0.05 0.10 0.15 0.20 0.35 0.40 0.45 0.50	0.00 0.00 0.00 0.00 0.00 0.00 0.00	5084.47 5084.47 5084.47 5084.47 5084.47 5084.47 5084.47 5084.47 5084.47	0.000 0.000 0.000 0.000 0.000 0.000 0.000 Page 2	$0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00$

0.65 0.65 0.75 0.85 0.95 0.95 0.15 1.25 0.85 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.9	0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	5084.47 5084.47 5084.47 5084.47 5084.47 5084.47 5084.47 5084.47 5084.47 5084.47 5084.64 5084.62 5087.62 5087.62 5087.62 5087.62 5087.62 5087.62 5087.62 5087.62 5088.48 5089.95 5094.64 5094.67 5094.70 5094.71 5094.71 5094.71 5094.71 5094.71 5094.71 5094.71 5094.71 5094.71 5094.71 5094.71 5094.71 5094.71 5094.71 5094.71	AHYMO 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
2.80 2.85 2.90 2.95 3.00 3.15 3.20 3.25 3.30 3.35 3.40 3.45	0.18 0.15 0.13 0.12 0.09 0.08 0.07 0.05 0.05 0.05 0.05	5094.66 5094.62 5094.61 5094.60 5094.59 5094.56 5094.55 5094.53 5094.52 5094.51 5094.49	0.653 0.649 0.645 0.637 0.633 0.629 0.625 0.620 0.616 0.608 0.603 0.599 Page 3	1.08 1.08 1.08 1.08 1.08 1.08 1.08 1.08

3.50				Λ μ ∇ M Ω	
TIME (HRS) (CFS) (FEET) (AC-FT) (CFS) 5.60 0.10 5093.44 0.418 1.08 5.65 0.10 5093.41 0.414 1.08 5.70 0.10 5093.38 0.410 1.08 5.75 0.11 5093.36 0.406 1.08 5.80 0.11 5093.33 0.402 1.08 5.85 0.11 5093.30 0.398 1.08 5.90 0.11 5093.27 0.394 1.08 5.95 0.11 5093.27 0.394 1.08 6.00 0.12 5093.21 0.386 1.08 6.00 0.12 5093.21 0.386 1.08 6.05 0.11 5093.19 0.382 1.08 6.10 0.08 5093.16 0.378 1.08 6.15 0.05 5093.13 0.373 1.08 6.20 0.03 5093.10 0.369 1.08 6.25 0.02 5093.07 0.365 1.08 6.30 0.01 5093.04 0.360 1.08 6.35 0.01 5093.01 0.356 1.08 6.35 0.01 5093.01 0.356 1.08	3.65 3.65 3.65 3.75 3.89 3.90 4.15 4.25 4.35 4.45 4.55 5.35	0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.05 0.05	5094.47 5094.45 5094.45 5094.43 5094.43 5094.38 5094.36 5094.36 5094.36 5094.36 5094.36 5094.26 5094.26 5094.27 5094.17 5094.07 5094.07 5094.07 5093.94 5093.94 5093.95 5093.76 5093.76 5093.76 5093.76 5093.76 5093.76 5093.76 5093.76 5093.76 5093.76 5093.76 5093.76 5093.76 5093.76 5093.76 5093.76 5093.76	0.586 0.587 0.5882 0.5789 0.5820 0.5560 0.55527 0.5530 0.5522 0.5501 0.4580 0.451 0.451 0.451 0.451 0.451 0.451 0.451	1.08 1.08 1.08 1.08 1.08 1.08 1.08 1.08
5.65 0.10 5093.41 0.414 1.08 5.70 0.10 5093.38 0.410 1.08 5.75 0.11 5093.36 0.406 1.08 5.80 0.11 5093.33 0.402 1.08 5.85 0.11 5093.30 0.398 1.08 5.90 0.11 5093.27 0.394 1.08 5.95 0.11 5093.24 0.390 1.08 6.00 0.12 5093.21 0.386 1.08 6.05 0.11 5093.19 0.382 1.08 6.10 0.08 5093.16 0.378 1.08 6.15 0.05 5093.13 0.373 1.08 6.20 0.03 5093.10 0.369 1.08 6.25 0.02 5093.07 0.365 1.08 6.35 0.01 5093.01 0.356 1.08 6.35 0.01 5093.01 0.356 1.08 6.40 0.01 5092.98 0.351 1.08					
	5.65 5.70 5.75 5.85 5.90 5.95 6.05 6.15 6.20 6.35	0.10 0.11 0.11 0.11 0.11 0.12 0.11 0.08 0.05 0.03 0.02 0.01 0.01	5093.41 5093.36 5093.30 5093.27 5093.24 5093.19 5093.16 5093.16 5093.10 5093.07 5093.04 5093.01	0.414 0.410 0.406 0.398 0.394 0.390 0.386 0.373 0.369 0.365 0.360 0.356 0.351	1.08 1.08 1.08 1.08 1.08 1.08 1.08 1.08

6.55 6.66 6.77 7.77 7.35 6.66 6.77 7.77 7.35 7.35 7.35 7.35 7.35 7.35 7	$0.01 \\ 0.00 \\ $	5092.94 5092.89 5092.86 5092.81 5092.76 5092.73 5092.73 5092.73 5092.68 5092.68 5092.68 5092.68 5092.50 5092.50 5092.47 5092.45 5092.39	AHYMO 0.347 0.343 0.338 0.329 0.325 0.325 0.311 0.307 0.298 0.298 0.298 0.271 0.262 0.258 0.244 0.245 0.249 0.244 0.235 0.222 0.218 0.222 0.218 0.213 0.200 0.195 0.186 0.177	1.08 1.08 1.08 1.08 1.08 1.08 1.08 1.08
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
8.40 8.45 8.50 8.55 8.60 8.75 8.85 8.90 8.95 9.05 9.15 9.25 9.30 9.35	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	5091.52 5091.31 5091.20 5091.10 5090.89 5090.67 5090.67 5090.36 5090.36 5090.25 5090.14 5090.04 5089.93 5089.83 5089.72 5089.51	0.173 0.168 0.164 0.159 0.155 0.150 0.142 0.137 0.133 0.128 0.124 0.119 0.115 0.110 0.106 0.101 0.097 0.092 0.088 Page 5	1.08 1.08 1.08 1.08 1.08 1.08 1.08 1.08

```
AHYMO
               0.00
                      5089.40
                                  0.083
    9.40
                                             1.08
                                             1.08
               0.00
                      5089.30
                                  0.079
    9.45
                                             1.08
    9.50
               0.00
                      5089.19
                                  0.075
    9.55
               0.00
                      5089.08
                                             1.08
                                  0.070
    9.60
               0.00
                                             1.08
                      5088.98
                                  0.066
                                             1.08
    9.65
                      5088.87
               0.00
                                  0.061
                                             1.08
    9.70
               0.00
                      5088.76
                                  0.057
    9.75
               0.00
                      5088.66
                                  0.052
                                             1.08
               0.00
                                             1.08
    9.80
                      5088.55
                                  0.048
                                             1.08
    9.85
               0.00
                      5088.44
                                  0.043
                      5088.34
                                             1.08
    9.90
               0.00
                                  0.039
                                             1.08
    9.95
               0.00
                      5088.23
                                  0.034
                                             1.08
   10.00
               0.00
                      5088.13
                                  0.030
                                             1.08
               0.00
                                  0.025
   10.05
                      5088.02
                                             1.08
               0.00
                      5087.91
                                  0.021
   10.10
                                            1.08
                      5087.80
                                  0.016
   10.15
               0.00
                                            1.08
   10.20
                      5087.69 0.012
               0.00
                      5087.57 0.008
                                            1.08
   10.25
              0.00
   10.30
                      5087.46 0.003
                                            1.08
          0.00
                                            0.35
                      5084.62 0.000
   10.35 0.00
PEAK DISCHARGE = 1.082 CFS - PEAK OCCURS AT HOUR 2.30
MAXIMUM WATER SURFACE ELEVATION = 5094.710
MAXIMUM STORAGE = 0.6770 \text{ AC-FT}
                                                              0.050000HRS
                                         INCREMENTAL TIME=
                   ID=11 CODE=1
PRINT HYD
```

101.10 PARTIAL HYDROGRAPH

RUNOFF VOLUME = 1.80092 INCHES = 0.8385 ACRE-FEET 1.08 CFS AT 2.300 HOURS BASIN AREA = PEAK DISCHARGE RATE = 0.0087 SQ. MI.

¥ ¥

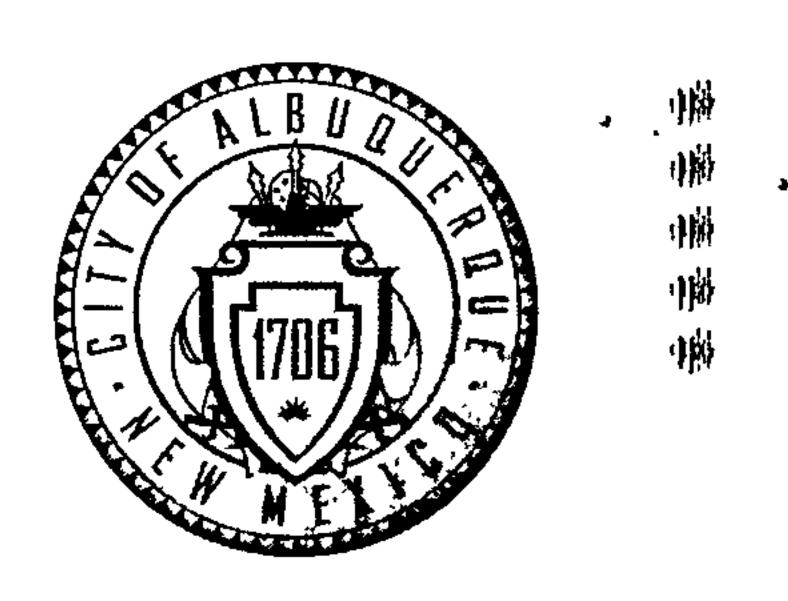
y.

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 14:22:43

CITY OF ALBUQUERQUE



March 6, 2015

Ronald Bohannan, PE Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

RE: Whataburger

Grading Plan

Engineer's Stamp Date 2-18-2015 (File: K10-D001B)

Dear Mr. Bohannan:

Based upon the information provided in your submittal received 2-20-15, the above referenced Grading Plan cannot be approved for Building Permit until the following comments are addressed:

PO Box 1293

Albuquerque

Aibuquerque

New Mexico 87103

www.cabq.gov

- 1) The volume of on-site storage detention is shown to be based on the 100-year 6-hour storm event. Provide a hydrograph which shows that 90% of the storage volume will be discharged from the site within 6 hours, as per the Drainage Ordinance.
- 2) On the plan view for the "Grading and Drainage Plan", label all of the different detention volumes that correspond to the "Proposed Conditions" discussion which include the 0.43 ac-ft detention pond, the 0.16 ac-ft surface pond, and the underground storage of 0.22 ac-ft. Show the underground storage system area on the plan view for the "Grading and Drainage Plan", and label the connections from the new 24-inch storm drain to this underground storage system.
- 3) There is a Section A-A on the "Grading and Drainage Plan" which shows pond elevations within the detention pond in the north area of the site. Provide more spot elevations within this area at the corners of the pond to ensure that there will be enough volume provided for the detention pond.
- 4) Eliminate the existing timed butterfly valve as discussed. If there are issues with the valve not operating properly, it will pose a risk to the site. The pipe discharging from the site to Coors Boulevard is at the upstream end of the existing storm drainage system, and it is discharging to a fairly steep 18-inch pipe in Coors Boulevard to convey the required 1.08 cfs. Therefore, due to the amount of existing

pipe capacity to handle such a small amount of flow, there is no concern regarding elimination of the timed valve.

- 5) How is storm drainage getting to the Double-D inlet on the west side of the site? Provide capacity calculations for the 5.6-foot wide curb cut that is accepting the off-site flow from the west and adjust as necessary.
- 6) Provide capacity calculations for all of the curb cuts shown on the plan.
- 7) A summary table is provided for grate capacities and pipe capacities on the "Basin Map and Calculations" sheet. Please provide the calculations for these capacities.
- 8) It is not clear if the subject site is accepting off-site flows from the site or how the site to the north will be impacted. Include discussion of off-site flows from the site to the north to ensure that grading of the Whataburger site does not adversely impact this site.
- 9) The number of chambers shown on the "Basin Map and Calculations" sheet is 75. This needs to be called out on the plan view detail on the "Stormchamber Storage System" sheet to make sure the right number of stormchambers will be installed. Also, please provide a legible table showing the layout dimensions for the stormchambers.

If you have any questions, you can contact me at 924-3924.

Sincerely,

Jeanne Wolfenbarger, P.E. Senior Engineer, Planning Dept. Development Review Services

Orig: Drainage file

c.pdf Addressee via Email



City of Albuquerque

Planning Department

Development & Building Services Division RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Whataburger	City Drainage #: K(0)00 ()
DRB#: EPC	
Legal Description: TR D-1 Plat of Hubbell Plaza	
City Address: 111 Coors Blvd. NW Albuquerque, NM 87	21
Engineering Firm: Tierra West, LLC	Contact: Ronald R. Bohannan
Address: 5571 Midway Park Place NE Albuquerque, NN	
Phone#: 505-858-3100 Fax	E-mail: rrb@tierrawestllc.com
Owner: Oak Realty Partners, Inc.	Contact:
Address: 5975 S Quebec Street, Suite 141 Greenwood	
Phone#: 303-318-0100 Fax:	
Architect:	
Address:	Contact:
Phone#:	E-mail:
Surveyor:	Contact:
Address:	
Phone#: Fax:	E-mail:
Contractor:	Contact:
Address:	
Phone#: Fax	E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPROVAL
X DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN	DRP-YS. DEV. FOR BLDG. PERMIT AHPROVAL
GRADING PLAN	SECTOR PLAN APPROVAT
X EROSION & SEDIMENT CONTROL PLAN (E	
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPANCY PERMITER 1 8 200
CLOMR/LOMR	CERTIFICATE OF OCCUPANION TEMP)
TRAFFIC CIRCULATION LAYOUT (TCL)	FOUNDATION PERMIT APPROVATE DEVELOR
ENGINEER'S CERT (TCL)	FOUNDATION PERMIT APPROVAL DEVELOPMENT SECTION
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPROVAL SO-19 APPROVAL
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROVAL ESC PERMIT APPROVAL
SO-19	WORK ORDER APPROVAL ESC CERT. ACCEPTANCE
OTHER (SPECIFY)	GRADING CERTIFICATION OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED:	Yes No Copy Provided
DATE SUBMITTED: 02/18/2015	By: Vinny Perea (Vpereq 4 tierra west 1 c.com)

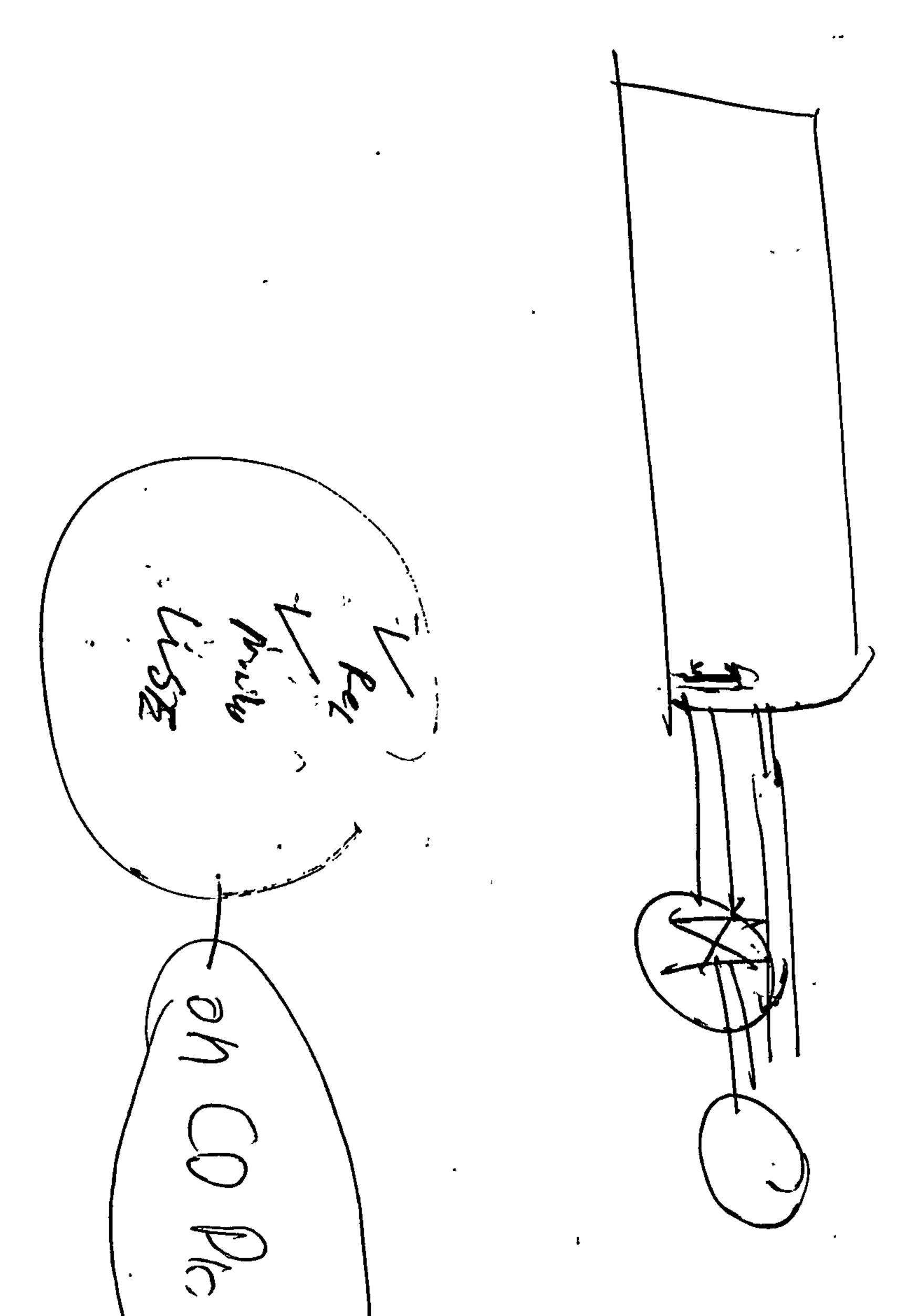
Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following

1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans

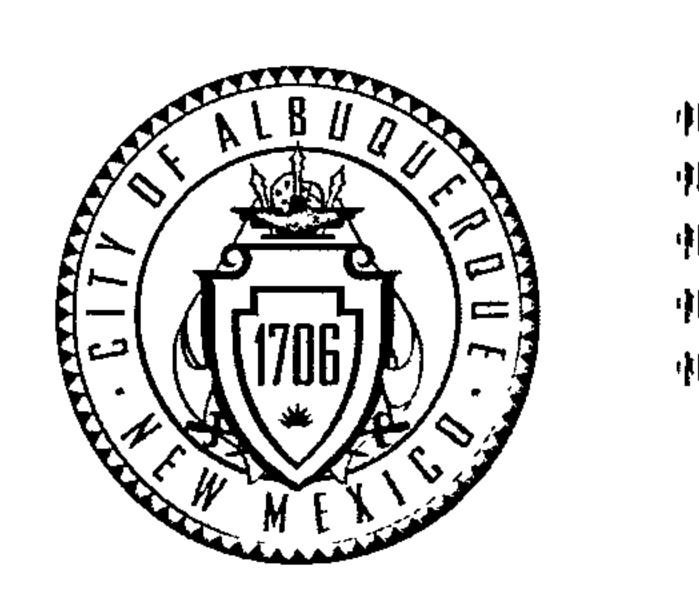
2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres

3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more

4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development



CITY OF ALBUQUERQUE



December 30, 2014

Ron Bohannan, P.E. Tierra West, LLC 5571 Midway Park Pl NE Albuquerque, NM 87109

Re: Whataburger, 111 Coors Boulevard NW Grading Plan and Drainage Plan Engineer's Stamp Date 12-2-14 (K10D001B)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 12-5-14, the above referenced report and plan cannot be approved for Building Permit approval until the following comments are addressed:

1. Identify the full extent of basins 4 and 5. Is the gas station to the north contributing flows? The basins on-site are defined by property lines instead of contour lines or spot elevations. Provide a basin map that includes the off-site basin and that contains sufficient information showing the basins defined by contour lines and spot elevations.

2. Is the two foot curb cut adequate for the off-site flows for Basin 5?

3. The First Flush is to be retained and discussed. Per the City Drainage ordinance, the 90th Percentile Storm Event, which is 44 inches, is to be managed. Reduce 0.44 inch by the 0.1 inch for the initial impervious abstraction in Table A-6 of Section 22 of the DPM. Multiply the remaining 0.34 inch by your impervious area. This is the portion to retain. Provide the amount that is necessary to be retained and how much is actually New Mexico 87103 being retained. The Stormchamber could be utilized for retention if the invert out is raised to retain the First Flush. The north pond can also be used by raising the invert of the 10 inch hole in the water quality manhole. The landscaping on the west side can be utilized for retention by raising the inlet invert above the bottom of the pond.

> 4. How was the Stormchamber sizing determined? How many risers will be with this system? Is the only riser the inlet in the middle of the system? If more than one, where will they be located exactly? On the Stormchamber detail sheet, optional items are called out on the lower left cross-section detail. Will those options be utilized with this system?

- 5. For the water quality manhole are the inverts of the 24 inch RCP, 10 inch hole, and bottom of pond all at 91.93? If so, call out the inverts and show them that way. Show the top of the rack and the top of the retaining wall at the same elevation of 93.43 as they have been indicated. Is a water quality manhole really needed if a Stormchamber system being utilized? They seem redundant. Provide freeboard and a guardrail for the pond.
- 6. What elevations are the alarms at in the lift station? What type of pump is being utilized? What is the Total Dynamic Head? Where is the pump on the pump curve? Provide the design for the lift station. Is a 2 hour delay being maintained as with the original design of detention pond?

PO Box 1293

Albuquerque

www.cabq.gov



- 7. rovide orifice calculations for 4 inch orifice in manhole 2.
- 8. Is the current lift station being removed? The proposed lift station seems very close to where the old one should have been.

Please contact me at 924-3994 if you have any questions.

Sincerely,

Amy L. D. Niese, P.E. Senior Engineer, Hydrology

Planning Department

C: e-mail

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Duratore invoit pond detention? Despond really have detention? walls to make detention? quartion To water quality readed who really necessary & Shouldn't stormcharber lave setention esp for FF? O IF NOT PRANING IN 1846th

Niese, Amy

From:

Niese, Amy

Sent:

Wednesday, January 14, 2015 1:01 PM

To:

Ron Bohannan (rrb@tierrawestllc.com)

Cc:

Vinny Perea

Subject:

Whataburger on Coors K10D001B

Recently we have had many submittals proposing designs with Stormtech/StormChamber units. Since the comment letter for Whataburger was sent out, we have established design standards for these systems which include but are not limited to the following:

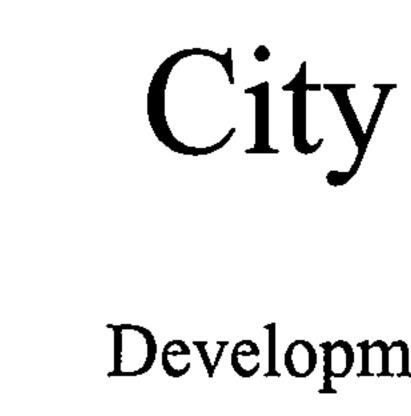


1. Only 30% porosity for storage volume in the surrounding stone will be accepted. (Some systems base volume on 40%.)

2. Historically, the City has not allowed infiltration as a credit for detention ponding. The City will consider infiltration for this type of detention system if the percolation rate for the installation location is provided by a geotechnical engineer. The design should adhere to the percolation rate.

Please make sure these items are taken into account when addressing the comments for Whataburger that were sent to you on December 30, 2014.

Amy L. D. Niese, P.E.
Senior Engineer, Hydrology
Planning Department
Development & Building Services Division
(505) 924-3994



City of Albuquerque

Planning Department

Viberea Otto

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Whataburger on Coo	City Drainage #: KIDDOOLB	
DRB#: EPC#:	Work Order#:	
Legal Description: TR D-1 Plat of Hubbell Plaza		
City Address: 111 Coors Blvd. NW, Albuquerqu	ue NM 87121	
Engineering Firm: Tierra West, LLC	Contact: Ronald R. Bohannan	
Address: 5571 Midway Park Place NE Albuqu		
Phone#: 505-858-3100 Fax#: 505	E-mail: rrb@tierrawestllc.com	
Owner: Oak Realty Partners, Inc.	Contact:	
Address: 5975 S. Quebec Street, Suite 141 Gr	eenwood Village Colorado 80111	
Phone#: 303-318-0100 Fax#:	E-mail:	
Architect:	Contact:	
Address:		
Phone#: Fax#:	E-mail:	
Surveyor:	Contact:	
Address:		
Phone#: Fax#:	E-mail:	
Contractor:	Contact:	
Address:		
Phone#: Fax#:	E-mail:	
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:	
DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE	
X DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPROVAL	
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL	
CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG. PERMIT APPROVAL C [] [] [] []	
GRADING PLAN	SECTOR PLAN APPROVAL	
X EROSION & SEDIMENT CONTROL PLAN (ESC)	FINAL PLAT APPROVAL	
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPANCY (PERMINITY)	
CLOMR/LOMR	CERTIFICATE OF OCCUPANCY (TCL TENAN) FOUNDATION PERMIT APPROVAL LAND DEVELOPMENT SECTION	
TRAFFIC CIRCULATION LAYOUT (TCL)	FOUNDATION PERMIT APPROVAL LAND DEVELOR AND DEVELOR AN	
ENGINEER'S CERT (TCL)	X BUILDING PERMIT APPROVAL SO-19 APPROVAL	
ENGINEER'S CERT (DRB SITE PLAN)		
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROVAL ESC PERMIT APPROVAL	
SO-19	WORK ORDER APPROVAL ESC CERT. ACCEPTANCE	
OTHER (SPECIFY)	GRADING CERTIFICATION OTHER (SPECIFY)	
WAS A PRE-DESIGN CONFERENCE ATTENDED:	Yes No Copy Provided	
DATE SUBMITTED: 12/02/2014	By: Vinny Perea	

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- 4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

Ao = 4.69

Part = 1.80 0 5

R100018 5019 GOONST SHOPPUL CIPS K-10 DO18 1+ = 30,068 cp - 10 = 1108 cfs the 81140 Cox 2HR DOAG Rodice & Channel of 2 aut out From K10 D18 on live nusa 92.32 / Fon A = 5.4 ac 100 yr 16.5 = Q (0=C/A) -5-4AC+0-87=6.31K PMIT MODIS ANGA 2 Aton 2hr/water level activelo from soll contributing I Not in flood your Teartry but not in it X Some storm drawn not showing. The self epprojounder &

NO OUT top - leave anothers 0/ to Coos of before TF race in 1 10 870mchamber Popup island Guardrach cient all sheets Musis Pond really necessory. Brown chamber for retartor Feder, ease wents tletter.

G15 SIEN KIO 4001 11 retentions mercuality mh Stormchatur guality mh Stockamber must have retention 4,690 AC 43560 SF .34W/II = 5788CF RED Freekowa 17 STANDPIKE 93,40 SHOUCE 771A7 BG 94.93 95.63 FF (1.51 D) 1= MSUE 94.93 Monte 50-19 wanted ? Here language Sontofy height & harden auch Cx Emergences overflowed to Coops -no only of learning something At Mous for= 6.43AUF = 18731 CF #porking = 0-16 &F = 69 70

#under = 0-22 ACFF = 9583 35,28405 = 0.81 KG 4' ORIFICE PLATE @ 142 Q = 1.08 CF 8 allong out area of 25AC. Expet det pond for 5.4ac. I get 1.13 acre of for on-Site when he stated. EXENTS of basns 415 Need offste boom map, mae off-oute, mgo SITE 49,300 = 1.13 AC 29(X17())

10 876 = (E) 1/20 JE dwo., 10 the way all the at way. Low way post HW Majorson E3 13 NOD 728° EST Johnson on Sommer of Sommer of the sound of CNOWNER 30 Your 34

A Ram Event for site BOP @ 91.93 Sallfret what to st At GR 94-43 W 88,82 Water quality MH starts to fall at 91.93?
When it fells 9.42cF, discharge to 10"RCD Invant= 88.68 of MH2, has 4" outer in 8" outlet Alamo go off at IW in 88.55 pump to 93.03 IV out Pordfjor over grate at 93,43 Mous reached at 94.93 (1.5' higher) 5.4 acre x 0265/acre = 1.08 cf5/ac المتعلقة والمستري والمرازي والمرازي والمرازي والمنازي والمنازي والمرازي والمرزز والمرزز والمرازي والمرازي المرازي المر

Trow cales for 4" orfue in MH2 De capacité chart Dond met octavelle oullet Plow region to porol 1.68 of (1.52 For their own best contacte as much as 7.37 of Only 10'' appearing for a while C Hot uteleging 86 for retention No weiting occurring - too small for routing C Ded not delineate off-sete brown dey will Needs to do that Provide offsite basin map.

Vinney Peren 12/14 HERMAN M. Distribution of the Restance of the State of the State of the State of Colonic of the State of the