CITY OF ALBUQUERQUE

Planning Department David Campbell, Director



Mayor Timothy M. Keller

November 30, 2018

Mark Goodwin, P.E. Mark Goodwin & Associates PO Box 90606 Albuquerque, NM, 87199

RE: Defined Fitness at Unser Crossing Grading and Drainage Plan Engineer's Stamp Date: 10/23/18 Hydrology File: K10D045

Dear Mr. Goodwin:

- PO Box 1293 Based upon the information provided in your resubmittal received 11/08/2018, the Grading Plan is not approved for Building Permit. The following comments need to be addressed for approval of the above referenced project:
- Albuquerque1. The above referenced project is within the 1959 City Boundary and therefore Payment in
Lieu is not available. I have attached the approved amended Drainage Ordinance. Please
follow General Provisions § 14-5-2-6-H. The important section is in Green and Blue. As
far as the drainage area which discharges behind the building, this can be handled in a
gravel trench at the edge of the pavement. Please revise the Grading and Drainage Plan
which follows the amended Drainage Ordinance and send me revised pdfs of the plans
and hard copy. Once I receive these, I will do my review. If you capture all the required
Stormwater Quality Volume, then I will issue you an approval letter.

If you have any questions, please contact me at 924-3995 or <u>rbrissette@cabq.gov</u>.

Sincerely,

Renée C. Brissette

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology Planning Department

CITY of ALBUQUERQUE TWENTY-THIRD COUNCIL

COUNC	IL BILL NC	D. <u>C/S 0-18-2</u>	ENACTMENT NO. 0-2,Dlf,1)2,[)
SPONS	ORED BY:	Trudy E. Jones	
1			ORDINANCE
2	AMENDI		E 5, PART 2, ROA 1994, THE DRAINAGE
3			ST PRACTICES FOR THE MANAGEMENT OF
4		INOFF ASSOCIATED WIT	
5			IL, THE GOVERNING BODY OF THE CITY OF
6		JERQUE:	
7			e 5, Part 2, Section 3 11Statement of Purpose
8		ent" is amended to add su	
9		2-3 STATEMENT OF PURF	
10	-		et seq. to promote the public health, safety,
11			
12			
13		d to acceptable levels by	
14	0		
15	(F)	As to stormwater qualit	y to:
16		(1) Address constru	ction and post-construction stormwater
17		quality management wi	thin the limits of New Mexico water law and
18			ncy authorities and limitations.
19		(2) Work cooperative	ely with the MRGCD, AMAFCA, and the
20		County of Bernalillo and	d other co-permittees, to best manage the
21		discharge of storm rund	off into co-permittee facilities, maximize
22		efficient use of stormwa	ater quality facilities, and minimize impact on
23		downstream water qua	lity and storm drainage facilities."
24	SEC	TION 2. Chapter 14, Articl	e 5, Part 2, Section 4 "Definitions" is hereby
25	amende	d to delete the definitions	for "CONSTRUCTION SITE WASTE(S)" and
26	"FIRST	FLUSH"; and to add or c	hange the following definitions; new

- 1 definitions are to be inserted alphabetically with existing definitions (all other
- 2 definitions to remain unless specifically repealed or amended herein):

3 u§ 14-5-2-4 DEFINITIONS.

BMPs. Best Management Practices. Those best management practices
described within theMS4 Permit.

6 CONSTRUCTION GENERAL PERMIT. The National Pollutant Discharge
7 Elimination System General Permit for Discharges from Construction
8 Activities, most current version.

9 COOPERATOR I COOPERATIVE AGREEMENT. Any arrangement,
 10 organization, or joint functioning of the co-permittees, or in combination with
 11 other governmental agencies, which works constructively with the City to
 12 address mutual stormwater and/or stormwater quality issues.

BOTH PERCENTILE STORM EVENT. The runoff from a precipitation event
 that is less than or equal to 80 percent of all rainfall events. The 80th
 Percentile storm event applies to projects where developed land is being
 redeveloped. The volume to be managed is stated in the Development Process
 Manual.

18 EROSION AND SEDIMENT CONTROL. Treatment measures for the
 19 prevention of damages due to soil movement and to deposition from the 2 20 year, 24 hour design storm runoff.

EROSION AND SEDIMENT CONTROL PLAN. A plan prepared by a licensed
 New Mexico Professional Engineer or Certified Professional in Erosion and
 Sediment Control (CPESC) submitted to ensure that minimum design
 standards are met to reduce potential pollutants that may result from
 demolition and construction activities.

GI/LID, GREEN INFRASTRUCTURE (GI), LOW IMPACT DEVELOPMENT
 (LID). Any array of products, technologies, and practices that preserve or use
 natural systems, or engineered systems that mimic natural processes and
 systems, to enhance overall environmental quality and more specifically that
 provide treatment resulting in stormwater quality improvement, as specified in
 the DPM.

32 *MANAGEMENT ON SITE.* To control, direct, and treat the stormwater 33 quality volume on the property, or if from an area of common development, then at an alternate location designed for stormwater management or as
otherwise approved by the City Engineer. The control and treatment will be
for water quality and/or flood volume purposes prior to discharge of the
stormwater to the City's MS4. Nothing in this definition shall be construed to
require an action which is contrary to state law, or to written state agency
guidance regarding flood control or surface water capture, or which requires
acquisition or amendment of a water right to legally implement.

8 *NEW DEVELOPMENT.* The process of adding improvements to a parcel of g land, such as grading, subdivisions, drainage, access, roadway/street 10 improvements, impervious driving surfacing and utilities. This applies to 11 parcels of lands with little to no previous human-caused disturbances, or 12 otherwise in a natural condition.

13 go_{TH} PERCENTILE *STORM EVENT*. The runoff from a precipitation event
 14 that is less than or equal to ninety percent of all rainfall events. The goth
 15 percentile storm event applies to new development. The volume to be
 16 managed is stated in the Development Process Manual.

PAYMENT-IN-LIEU FORPUBLIC OFF-SITE MITIGATION ("Payment in
 Lieu". A payment collected and used by the City, or collected by the City and
 distributed to a cooperator for its use pursuant to an agreement with the City,
 for purposes the maintenance, retrofit, or upgrade of public drainage
 infrastructure for stormwater quality improvements, and made in lieu of
 management on-site or private off-site mitigation.

PRIVATE OFFS/TE MITIGATION. Approved management of the stormwater
 quality volume or a portion of the stormwater quality volume at a private
 offsite location. The private offsite location may be an existing facility or the
 facility may be constructed or modified to manage the stormwater quality
 volume.

28 *REDEVELOPMENT.* Improvements made to a parcel of land that was
 29 previously developed (see "new development").

30 STORMWATER QUALITY VOLUME. See 80th Percentile and goth Percentile
 31 storm events."

32 SECTION 3. Chapter 14, Article 5, Part 2, Section 5 "Jurisdiction" is 33 amended as follows:

1 "§ 14-5-2-5 JURISDICTION.

Sections 14-5-2-1 et seq. shall apply to all lands within the city and, with
respect to planning and platting matters, it shall also apply to all lands within
its extraterritorial planning and platting jurisdiction."

5 SECTION 4. Chapter 14, Article 5, Part 2, Section 6 "General Provisions" is
6 amended as follows:

7 ¹¹§ 14-5-2-6 GENERAL PROVISIONS.

(A) The city is and shall remain an active participant in the National
Flood Insurance Program. The city endorses the program goal of flood
damage reduction through the regulation of development within flood hazard
areas and the preservation of floodways. Sections 14-5-2-1 et seq. are
intended to complement and supplement the Flood Hazard Ordinance set forth
in §§ 14-5-1-1 et seq. of this article and shall be administered in concert
therewith.

15 All developed land within the city shall be provided with adequate **(B)** 16 drainage control, flood control, stormwater control, and erosion control 17 facilities. The protection of life, health, and property shall be considered the 18 primary function in the planning, design, construction and maintenance of 19 drainage control, flood control, stormwater control, and erosion control 20 facilities. However, other concerns, not limited to the following, shall be 21 addressed: channel capacity, watershed characteristics, channel stability, 22 maintenance, transitions between treatment types, multiple use goals, and 23 appearance. The needs of the community in transportation, utility services, 24 recreation, and open space shall be considered in planning, design, 25 construction, and maintenance-particularly in the selection of channel 26 treatment measures. These needs shall always be considered subsidiary to 27 the primary functions of the drainage control, flood control, stormwater 28 control, and erosion control facilities.

(C) The design, construction and maintenance of dams, levees and
diversions that fall within the jurisdiction of the state engineer shall meet or
exceed standards established by the StateEngineer.

32 (D) The design, construction and maintenance of flood control facilities
 33 shall be coordinated with AMAFCA or other public agencies as appropriate.

(E) All facilities receiving water from public facilities and rights-of-way
 shall be constructed within dedicated rights-of-way or recorded drainage
 easements granted to and accepted by the proper public authority or a private
 entity with an agreement for operations and maintenance.

5 (F) All facilities which receive only runoff from private property shall be 6 constructed on private property unless otherwise authorized by the City 7 Engineer. The use of individual on-lot ponding shall be governed by the 8 standards established by the City Engineer in the Development Process 9 Manual.

10 (G) Wherever flood control, drainage control, stormwater control, or 11 erosion control improvements are necessary within dedicated publicopen 12 space, such improvements shall be designed and constructed in a manner 13 reasonably consistent with the natural surroundings. All construction and 14 maintenance activities in dedicated open space shall be performed so as to 15 minimize the disruption and destruction of vegetation and adjacent land forms. 16 Where such disturbance or destruction is unavoidable, revegetation shall be 17 performed at the earliest practical time by those responsible for such

18 disturbance and/or destruction.

19 All new development and redevelopment projects shall apply best (H) 20 management practices to manage stormwater quality volume by management 21 on-site, or payment-in-lieu, or private offsite mitigation. The Best Management 22 Practices (BMPs) shall be appropriate for the specific circumstances. On-site 23 mitigation solutions shall be landscaped or otherwise utilize required landscape areas within the site. The basis for requesting payment-in-lieuor 24 25 private offsite mitigation is to be clearly demonstrated on the drainage plan. 26 Management on site shall not be required where stormwater quality can be 27 effectively controlled through private off site mitigation, or through an 28 arrangement to utilize a cooperator's existing regional stormwater 29 management infrastructure or facilities that are available to control stormwater 30 quality, and where: 31 (i) the lot is too small to accommodate management on site while 32 also accommodating the full plan of development; 33 (ii) the soil is not stable;

1	(iii) the site use is inconsistent with the capture and reuse of
2	stormwater;
3	(iv) other physical conditions exist where compliance with on-site
4	stormwater quality control requirement leaves insufficient area;
5	(v) public or private off-site facilities provide an opportunity to
6	effectively accomplish the mitigation requirements of this ordinance;
7	(vi) there is an opportunity to develop a project to replenish regional
8	ground water supplies at an offsite location; or
9	(vii) a waiver to state water law or acquisition of water rights would
10	be required in order to implement management on site.
11	(I) In new development and redevelopment cases where the stormwater
12	quality volume cannot be met in total through either management on site or
13	private off site mitigation, payment-in-lieu is required for the difference
14	between the amount met and the total required. Determination of payment-in-
15	lieu is described in the DPM; except that payment in lieu that would be
16	otherwise owed is waived for both new development and redevelopment in
17	Metropolitan Redevelopment Areas or within the City of Albuquerque
18	Annexation Boundary of 1950-1959 (per Figure 4-1: Growth Through
19	Annexation Over Time in Albuquerque of the Albuquerque/Bernalillo County
20	Comprehensive Plan).
21	(J) Where practicable, Stormwater Control Measures shall be designed to
22	manage the stormwater quality volume and control runoff generated by
23	contributing surfaces.

24 (K) The City Engineer is responsible for establishing criteria, procedures 25 and standards for design and construction of flood control, drainage control, 26 stormwater control, stormwater quality control, and erosion control 27 improvements within the city. The city standards for design and construction 28 are published in the Development Process Manual (DPM) and the Standard 29 Specifications for Public Works Construction (latest versions). The City 30 Engineer shall provide for variance from normal criteria and standards when 31 appropriate. When a variance is required or requested, the City Engineer shall 32 document the justification for his/her decision and retain aspublic records 33 such actions and justifications. Appeal of the City Engineer's variance

1 decisions is as provided in § 14-5-2-15. The City Engineer is also the 2 designated flood control official for the city in accordance with the 3

requirements of the Federal Insurance Administration.

4 (L) The introduction of groundwater cleanup flow to either natural or 5 constructed storm drainage and flood control facilities shall be prohibited 6 except as herein provided."

SECTION 5. Chapter 14, Article 5, Part 2, Section 7 "Surface Use of Streets 7 8 for Drainage and Flood Control Purposes" and Section 8 "Crossings" is 9 amended as follows:

10 118 14-5-2-7 SURFACE USE OF STREETS FOR DRAINAGE AND FLOOD 11 CONTROL PURPOSES.

12 (A) The surface of streets may be used for drainage and flood control 13 purposes, to the extent such use does not interfere with the safe 14 transportation of people and vehicles.

15 (B) The 100-year design storm runoff shall not exceed the top of curb or 16 the right-of-way in a sump condition, in any street nor enter private property 17 from a street, except in recorded drainage or flood control easements, rights-18 of-way, or historic channels and watercourses where easements or rights-of-19 way cannot be obtained.

20 (C) The 10-year design storm runoff shall not exceed a depth of 0.5 feet in 21 any arterial street and shall flow such that one driving lane in each direction is 22 free of flowing or standing water. The 10-year design storm runoff shall not 23 exceed a depth of 0.5 feet in any collector street. Arterial and collector streets 24 that are in the state highway system may require more stringent drainage 25 criteria.

26 (D) The product of depth times velocity shall not exceed 6.5 at any location 27 in any street in the event of a 10-year design storm (with velocity calculated as 28 the average velocity measured in feet per second and depth measured at the 29 autter flow line in feet).

30 (E) The discharge of nuisance waters to public streets is prohibited. 31 Arterial and collector streets shall be protected from damages to the pavement 32 surface and from the safety hazards created by surface flow of nuisance 33 waters across them.

(F) All developed land within the city shall be served by at least one access
 that shall be an all-weather facility during a 100-year design storm, with all
 channel-crossing structures beneath the road-way being able to pass a 100 year design storm runoff event.

5

§ 14-5-2-8 CROSSINGS.

6 (A) Channel crossing structures shall be provided on all arterial and
7 collector streets to safely pass the 100-year design storm runoff from major
8 arroyos assuming a fully developed watershed.

9 (8) Streets other than arterial, collector and sole access may cross major
10 arroyos and other water-courses by means of a "dip section" or "overflow
11 section" provided depth times velocity (with velocity calculated as the average
12 velocity measured in feet per second and depth measured in feet at the
13 upstream edge of the roadway including sidewalk) does not exceed 6.5 for that
14 portion of the 10-year storm runoff crossing on the street.

(C) Where feasible, temporary crossings shall be designed so they may
be incorporated into the future permanent crossing structure and so that they
meet street design standards established by the Traffic Engineer.

(D) Crossings of major arroyos by arterial and collector streets shall be
 at public expense. Crossings of arroyos by streets other than arterials and
 collectors shall be constructed at developer expense and shall meet street
 design standards established by the Traffic Engineer.

22 (E) Temporary crossings required for access, including those on23 arterials and collectors, shall be constructed at developer expense.

24 (F) The maintenance of facilities constructed at private expense on
25 public property is the responsibility of the owner or owner's agent until
26 permanent facilities are in place.

(G) The developer shall be responsible for maintaining or replacing
temporary crossing structures for a period of six years or until apermanent
structure is built, whichever comes first. The city shall maintain temporary
crossings which are designed and built such that they may be directly
incorporated into the ultimate facilities."

32 SECTION 6. Chapter 14, Article 5, Part 2, Section 10 "Multiple Use Rights-33 of-Way and Easements" is amended as follows:

1 u§ 14-5-2-10 MULTIPLE USE RIGHTS-OF-WAY AND EASEMENTS.

2 (A) Multiple use is encouraged for drainage rights-of-way and drainage 3 easements including, but not limited to, utility corridors, recreation trails, and 4 parks. Where multiple use is planned by the city, another public agency, or a 5 public utility, the city may require that dedication statements include language 6 which permits said specified multiple uses in addition to the primary drainage 7 function, flood control, stormwater or stormwater quality control, or erosion 8 control. However, land required to be dedicated for drainage related rights-of-9 way shall be limited to those land areas necessary for drainage control, flood 10 control, stormwater quality control, and erosion control and necessary 11 appurtenances.

(B) Certain drainage rights-of-way may be credited for open space as may
be required by the IDO, except for any area which is exclusively used for the
drainage control, flood control, stormwater quality control, or erosion control
function.

SECTION 7. Chapter 14, Article 5, Part 2, Section 11 "Stormwater Control
 Permitting for Erosion and Sediment Control, Inspection and Maintenance
 Responsibility" is amended asfollows:

19

"§ 14-5-2-11 CONSTRUCTION SITE RESPONSIBILITY BY PROPERTY OWNER.

20 (A) For projects that disturb one acre or more, or less than one acre but 21 are part of a larger common plan of development exceeding one acre, the 22 property owner is to provide the Construction General Permit (CGP) Electronic 23 Notice of Intent (eNOI) documentation that contains the property owner name 24 and contact information a minimum of 14 days prior to earth disturbance and 25 prior to obtaining Work Order or Building Permit approval. To be accepted, 26 the eNOI is to be properly filled out and certified. If the eNOI is a Low 27 Erosivity Waiver by the contractor, then an Erosion and Sediment Control 28 Permit per paragraph § 14-5-2-11(B) is to be approved by the City.

(B) For projects that are less than one acre and are not part of a larger
common plan of development, but meet the criteria as specified in section 145-2-12(8)(6), an approved Erosion and Sediment Control Permit is required
prior to earth disturbance, Work Order approval and Building Permit approval.

1 (1) The Erosion and Sediment Control Permit or eNOI holder must 2 be either the owner of the property or an authorized agent of the owner in 3 order for the permit to legally cover the activities occurring at the site. If the 4 permit holder is other than the owner, evidence of delegation of authority 5 acceptable to the city shall be provided prior to issuance of a permit by the 6 city.

7 (2) A project will be approved for earth disturbance, work order,
8 or building permit only upon approval of plans and conditions by the City
9 Engineer.

10

(C) Construction site inspections and quality controls shall Include:

11 (1) Self-inspections by permittee. At a minimum aroutine 12 compliance self-inspection is required to review the project for compliance 13 with the Construction General Permit once every 14 days and after any 14 precipitation even of 1/, inch or greater until the site construction has been 15 completed and the site determined as stabilized by the City. Reports of these 16 inspections shall be kept by the person or entity authorized to direct the 17 construction activities on the site and shall be conducted during progress of 18 the work, during work suspensions, and until final acceptance of site 19 stabilization by the city. An owner's or his/her agent's failure to properly 20 maintain records shall subject that owner to the penalty provisions of this 21 ordinance.

22 (2) City Compliance Inspections. The city will conduct routine 23 compliance inspections of projects for compliance with the Construction 24 General Permit. The City will conduct routine compliance inspections of all 25 construction projects cumulatively disturbing one acre or more or as specified 26 in section 14-5-2-12(8)(6) for compliance with the Construction General 27 Permit Site inspections will be followed by any necessary compliance or 28 enforcement action to ensure corrective action has occurred. Corrective 29 action is to be completed within seven days or the owner is subject to 30 escalation per this ordinance. All projects will be inspected at completion for 31 confirmation of stabilization.

(a) Construction Site Compliance. If the City finds that the site
 is not in compliance with the Construction General Permit and that stormwater

1 controls will not prevent sediment and waste from entering the City's drainage 2 system and/or leaving the construction site the city may direct the owner or 3 his/her agent by written order to come into compliance. If deficiencies are 4 required to be mitigated, the owner or his/her agent shall be verbally notified with a follow-up written confirmation occurring later. It shall be the duty of the 5 6 owner or his/her agent to immediately take all necessary steps to prevent such 7 migration of sediment and waste off the premises or from entering receiving 8 waters. Delivery of an order by the city to the owner or his/her agent shall be 9 deemed to be notice thereof, and binding upon the owner. An owner's or 10 his/her agent's failure to substantially comply with the order shall subject that 11 owner to the penalty provisions of this ordinance.

12 (b) Maintenance of Control Measures. The property owner or 13 the owner's agent carrying out the Construction General Permit requirements 14 shall maintain all control measures, retaining walls, structures, plantings, and 15 other protective devices. Should the applicant, or any other subsequent 16 property owners fail to maintain the temporary control facilities, retaining 17 walls, structures, plantings, and other protective devices, the city reserves the 18 authority to enter affected property, provide needed maintenance, and to 19 charge the owner for the work performed by the city or its contractors and to 20 place a lien on the property to cover the costs of said actions. Such municipal 21 lien shall be a statutory lien against the real property. This provision is in 22 addition to the city's ability to assess penalties or pursue any other remedies 23 as necessary to effectuate the purpose of this ordinance.

The maintenance of facilities constructed atprivate
 expense on public property is the responsibility of the owner or owner's agent
 until permanent facilities are in place.

27 2. The developer shall be responsible for maintaining or
28 replacing temporary crossing structures for a period of six years or until a
29 permanent structure is built, whichever comes first. The city shall maintain
30 temporary crossings which are designed and built such that they may be
31 directly incorporated into the ultimate facilities.

32 (3) The city will utilize sanctions and penalties to enforce upon
33 violations of permit requirements. Progressive enforcement escalation

procedures will be used and strictly enforced for recalcitrant or repeat
 offenders.

3 (D) Post-Construction Maintenance shall be performed as follows: 4 (1) Except as otherwise noted herein, all Public Stormwater Facilities 5 shall be maintained by the city or other public body. The maintenance of multiple use facilities to which the general public is denied access shall be the 6 7 responsibility of the owners and shall be performed to City Engineer 8 standards. The City Engineer may allow private maintenance within public 9 right-of-way or easement provided that adequate guarantees and 10 indemnifications are supplied.

11

(2) Private Stormwater Facilities:

a) Maintenance of Drainage Facility - The Owner shall
maintain the Drainage Facility at the Owner's cost in accordance with this
Ordinance.

b) City Compliance Inspections - The City's post-construction
inspection program will begin routine compliance inspections of projects at
three (3) years after final acceptance of the BMP's. Notwithstanding, nothing
herein prevents the City from performing an unscheduled inspection when
reasonably necessary to implement the goals and requirements of this
ordinance.

21 c) City's Right of Entry- No owner, occupant or anyother 22 person having charge, care or control of any building or premises shall fail or 23 neglect, after proper request is made, as herein provided, to promptly permit 24 entry by authorized City officials for the purpose of inspection and 25 investigation pursuant to this ordinance, or to provide maintenance or repair 26 of the Drainage Facilities as it deems appropriate without liability to the City. In the event that the City is denied reasonable entry for purposes of inspection 27 28 on a voluntary basis, the authorized City official shall obtain a proper 29 inspection warrant or other remedy provided by law to secure entry. In the 30 event of an emergency, where immediate entry is necessary to protect life or 31 property, the City has the right to enter and perform inspections, maintenance 32 or repair of the Drainage Facilities as it deems appropriate, without liability to 33 the City.

d) Demand for Construction or Repair - The City may send
 written notice ("Notice") to the Owner requiring maintenance, construction, or
 repair to the Drainage Facility within thirty (30) days ("Deadline") of receipt of
 the Notice, and the Owner, at their expense, must comply with the
 requirements of the Notice by the Deadline provided.

e) Failure to Perform by Owner and Emergency Work by City -6 7 If the Owner fails to comply with the terms of the Notice by the Deadline, or if 8 the City determines that an emergency condition exists, the City may perform 9 the work itself. The City may assess the Owner for the cost of the work and 10 for any other expenses or damages, which result from Owner's failure to 11 perform. The Owner shallpay the City the amount assessed. If the Owner 12 fails to pay the City within thirty (30) days after the City gives the Owner 13 written notice of the amount due, the City may impose a lien against Owner's 14 Property for the total resulting amount.

f) Liability of City for Repair after Notice or as a Result of
Emergency - The City shall not be liable to the Owner for any damages
resulting from the City's maintenance or repair following Notice to the Owner
as required in this Ordinance, or in an emergency, unless the damages are the
result of thereckless conduct or gross negligence of the City.

20 g) Indemnification - The City, its officials, agents and 21 employees are indemnified and shall be held harmless from all claims, 22 actions, suits and proceedings, whether known or unknown arising out of, or 23 resulting from the Owner's negligent maintenance, construction, repair or use 24 of the Drainage Facility. Such indemnification shall encompass actions are 25 brought by third parties against any non-City party when such actions related 26 to the aforementioned Drainage Facility. Furthermore, and notwithstanding 27 the provisions of Section 56-7-1 NMSA 1978 (if applicable), such 28 indemnification specifically extends to liability, for all claims, whether known 29 or unknown, damages, losses or expenses, including attorneys' fees, arising 30 out of: (1) the preparation or approval of maps, drawings, opinions, reports, 31 surveys, change orders, designs or specifications (except those created by 32 the City or its agents or employees); or (2) the giving of or the failure to give 33 directions or instructions by the City.

h) This ordinance is not intended to replace, supersede,
undermine or otherwise alter or replace any existing covenant or other written
agreement between the City and any property owner. To the extent that the
provisions herein conflict with the covenant or other agreement's language,
then the covenant language or other agreement's language shall apply."

6 SECTION 8. Chapter 14, Article 5, Part 2, Section 12 "General
7 Administration" is amended as follows:

8 "§ 14-5-2-12 GENERAL ADMINISTRATION.

9 (A) The design, construction and maintenance of all drainage control,
10 flood control, stormwater control, stormwater quality control, and erosion
11 control facilities within the city shall be performed In accordance with
12 procedures, criteria and standards formulated by the City Engineer and in
13 accordance with the policies established in§§14-5-2-1 et seq.

(B) All construction activities within the jurisdiction of the city shall
conform to the requirements of the City Engineer with respect to drainage
control, flood control, stormwater control, stormwater quality control, and
erosion control.

18 (1) Structures constituting less than 1,000 square feet, in planview,19 are excluded.

(2) Construction, grading or paving on any lot within the jurisdiction
of the city shall not increase the damage potential to upstream, downstream or
adjacent properties or public facilities. Damages shall be defined as those
caused by flooding from the 100-year design storm and all smaller storms and
from erosion and sedimentation resulting from the 10-year design storm and
all smaller storms.

26 (3) During the period of May 1 through October 31, any grading
27 within or adjacent to a facility that conveys a minimum of 50 cfs of holds 2.0
28 acre-feet must provide for stormwater control, erosion control, and the safe
29 passage of the 10-year design storm runoff during the construction phase.

30 (4) Grading, cut, fill or importation of material in excess of 500 cubic
31 yards or grading of any area of one acre or more shall conform to drainage
32 control, flood control, stormwater control, and erosion control policies and to
33 standards, criteria and procedures established by the City Engineer with

respect to drainage, flood control, stormwater control, and erosion control. A
grading permit, issued by the City Engineer, shall be required for projects
involving more than 500 cubic yards of material or one acre or more in area.
Applications for development of areas known to have been sanitary landfills
shall be accompanied by a report which discusses potential health and soil
mechanics problems and their solutions. Such reports shall be prepared by a
New Mexico Professional Engineer competent in soilmechanics.

8 (5) Where practicable, active construction sites shall utilize non9 structural controls, such as phased construction, dust control, good
10 housekeeping practices, and spill prevention and response.

(6) Sites with less than one acre of total land disturbance and that
are not part of a larger common plan of development shall be required to
obtain an Erosion and Sediment Control Permit if:

(a) The site is identified as having a significant potential for
erosion, based on observation or site characteristics including very steep
topography;

17 (b) The site is known to contain contaminated soils; or

18 (c) The site is directly adjacent to receiving waters such as
19 directly connected storm drains, directly connected concrete arroyos or the
20 Rio Grande.

(d) The site contains a building to be demolished and the
building is 10,000 square feet or larger and was built or renovated prior to
January 1, 1980.

(7) Paving an area larger than 10,000 square feet other than right-ofway shall require a paving permit. Applications for paving permits shall be
accompanied by a grading plan and Erosion and Sediment Control Plan if
deemed necessary by the City Engineer. Repaving of right-of-way is excluded.

(8) The City Engineer shall not issue a grading permit, paving
permit, Work Order, or Building Permit unless the proposed project is in
compliance with the policies of §§ 14-5-2-1 et seq.

(9) Permit Fees. Permit fees shall be established by the Mayor.
(C) The city may participate with the private sector, and other public
bodies and agencies operating within the jurisdiction of this policy in order to

accomplish the goals and implement the policies adopted in §§ 14-5-2-1 et
seq. This includes, but shall not be limited to, the development and approval
of master plans for flood control, drainage and stormwater control, and
stormwater quality control; participation in the construction of projects and
exercising control through the planning, platting, zoning, and permitting
processes. Projects involving city funding shall be prioritized, funded and
scheduled within the guidelines of the CIP and with CIP Projects.

8 (D) It shall be the responsibility of the City Engineer to produce, approve, 9 make and retain records of all drainage plans, drainage reports, design 10 analyses, design drawings, as-built drawings, and maintenance schedules 11 related to all drainage control, flood control, stormwater control, stormwater 12 quality control, and erosion control facilities constructed within city rights-of-13 way or easements.

(E) The City Engineer shall not approve any plan or report pertaining to
proposed construction, or other development where the proposed activity or
change in the land affected would result in downstream capacity being
exceeded and for which stormwater control has not been addressed in
compliance with this ordinance and standards established by the City
Engineer in the Development Process Manual.

20 (1) Downstream capacity is determined based on the assumption of
21 fully developed watersheds. This assumption prevents "the first come, first
22 served" approach where downstream development unduly constrains
23 upstream development. Parameters used in the determination of downstream
24 capacity include, but are not limited to:

- 25 (a) Channel stability. 26 (b) Crossing structure hydraulic capacity. 27 (c) Reservoir capacity. 28 (d) Hydraulic capacity of street, storm sewer, or channel. 29 (e) Public health and safety. 30 (f) Maintenance constraints. 31 (2) Planned public storm drainage facilities are assumed as in place 32 in determining downstream capacity, provided that construction funds are
 - 16

available and design has progressed to the point where capacity can be
 ascertained.

3 (F) Temporary facilities are only allowed on a case-by-case basis as
4 determined by the City Engineer. The level of protection to be provided by
5 temporary facilities shall be determined by considering:

6

(1) The likelihood and consequences of a failure.

7

(2) Length of time until permanent facilities will be in place.

8 (3) The acceptance of maintenance responsibilities and legal9 liabilities.

(G) Requests for approvals of development and/or platting proposals to
the City Engineer shall be accompanied by drainage control, flood control,
stormwater control, stormwater quality control, and erosion control
information and/or commitments. The particular nature, location and scope of
the proposed development defines the degree of detail. One or more of the
following levels of submittal may be required based on the following:

16 (1) Conceptual Grading and Drainage Plan. A graphic 17 representation of existing and proposed grading, drainage, flood control and 18 erosion control information. The information should be of sufficient detail to 19 determine project feasibility. The purposes of this plan are to check the 20 compatibility of the proposed development within grading, drainage, flood 21 hazard and erosion control constraints as dictated by on-site physical features 22 as well as adjacent properties, streets, alleys and channels. Modifications to 23 the Comprehensive Plan and the development of area plans, sector plans, site 24 development plans and landscaping plans on tracts of five acres or more are 25 appropriate applications of conceptual grading and drainage plans.

(2) Drainage Plan. A short detailed presentation required for
approval of small, simple development approvals. Drainage plans are
prepared with or on the detailed grading plan and address both on-site and
off-site drainage control, flood control, stormwater control, stormwater quality
control, and erosion control issues. Drainage plans are required for building
permits, site development plans and landscaping plans for developments
involving less than five acres.

33

(3) Drainage Report.

(a) A drainage report is a comprehensive analysis of the
 drainage control, flood control, stormwater control, stormwater quality
 control, and erosion control constraints on and impacts resulting from a
 proposed platting, development or construction project.

5 (b) Drainage reports are required for subdivisions containing 6 more than ten lots or constituting five acres or more, platting or construction 7 within a designated flood hazard area and for any platting or development 8 adjacent to a major arroyo.

9 (4) Erosion and Sediment Control Plan. Erosion and Sediment 10 Control plans address all phases of each project from initial grading through 11 and including final occupancy. Phased projects require special attention. All 12 construction projects, both public and private, within the jurisdiction of §§ 14-13 5-2-1 et seq., unless specifically excluded, require an approved Erosion and 14 Sediment Control plan prior to start of construction. An Erosion and Sediment 15 Control Plan is required for sites that meet the criteria specified in § 14-5-2-16 11(A), § 14-5-2-11(B) and § 14-5-2-12(8)(6).

17 (H) The Albuquerque 100-year design storm is the 100-year storm as 18 defined by the National Oceanic Atmospheric Administration (NOAA) and by 19 the storm distributions for time and areas as developed by the City Engineer 20 and documented in the DPM. Design circumstances may require larger or 21 smaller storm volumes. The sources for the rainfall data are current NOAA 22 publications and the City Engineer. When the need for other design storms is 23 apparent, the City Engineer will provide requirements concerning appropriate 24 storms, frequencies and durations.

(I) The City Engineer shall, within 30 calendar days after the submission to
him/her of a request in writing for an approval under the Drainage Ordinance,
approve or deny the request and provide a copy of his/her decision to the
applicant. If the request is denied, the reasons for such denial shall be stated
in writing. Appeal of such decisions is as provided in § 14-5-2-15.

(J) Discharge of any groundwater cleanup flows to the city's storm
drainage and flood control system shall not normally be permitted, however,
when such discharge of groundwater cleanup flow is by special agreement
permitted, the entity responsible for such groundwater cleanup flow discharge

shall also be responsible for all costs of installing, operating and removing the
means of such discharges and shall provide public liability protection as
required. The discharger of such groundwater cleanup flows shall also be
responsible for payment of such permit fees, user fees, and effluent sampling
fees according to an agreement with the city. All discharges to public storm
drainage and flood control facilities shall comply with adopted local and
applicable state and federal water quality requirements."

8 SECTION 9. Subsection 'G' of Chapter 14, Article 5, Part 2, Section 13
9 "Administrative Procedures, Criteria and Standards" is amended as follows:
10 u§ 14-5-2-13 ADMINISTRATIVE PROCEDURES, CRITERIA AND
11 STANDARDS.

12

13 (G) Regulation relating to groundwater cleanup flows discharged to public 14 storm drainage and flood control facilities shall be exempted from the 15 provisions of this section. Requirements relating to groundwater cleanup 16 flows shall be established by the City Engineer on a case by case basis, based 17 on public health and safety needs, operational needs, and state and federal 18 regulatory compliance requirements current at time of promulgation. The 19 requirements and conditions shall include provisions for public liability 20 protection from groundwater cleanup flow discharges to the city's systems." 21 SECTION 10. Subsection ¹8' of Chapter 14, Article 5, Part 2, Section 14 22 uEnforcement" is amended as follows:

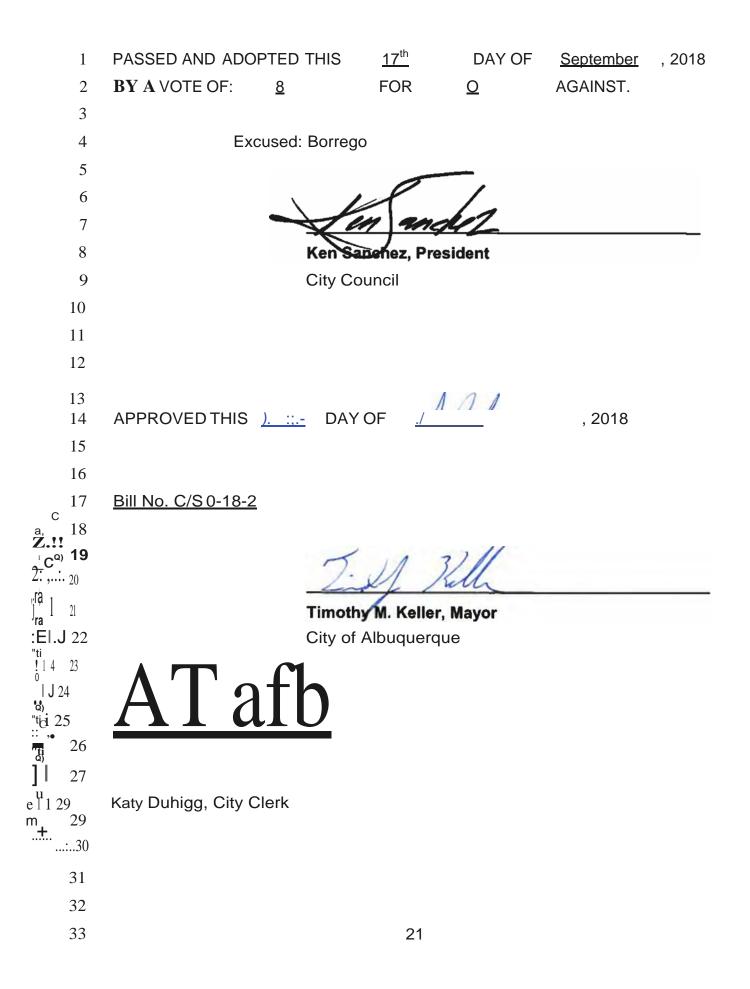
23

"§ 14-5-2-14 ENFORCEMENT.

24

25 (B) Where, after investigation, an order has been issued by the City 26 Engineer to the owner of the property on which a violation has occurred and 27 the order is not complied with within thirty (30) days for post-construction 28 violations and within seven (7) days for construction violations, or such longer 29 reasonable time as may be prescribed by the City Engineer, or if the 30 responsible party or violator cannot be found or determined, the violator shall 31 be subject to the penalty provisions set forth in § 1-1-99 of this code of 32 ordinances up to \$500 per day. Each day of violation is considered a separate offense." 33

SECTION 11. SEVERABILITY CLAUSE. If any section, paragraph, wordor phrase of this ordinance is for any reason held to be invalid, or unenforceable by any court of competent jurisdiction, such decision shall not affect the validity of the remaining provisions of this ordinance. The Council hereby declares that it would have passed this ordinance and each section, paragraph, sentence, clause, word or phrase thereof irrespective of any provision being declared unconstitutional or otherwise invalid. SECTION 12. COMPILATION. Sections 1 through 10 of this ordinance shall amend, be incorporated in and made part of the Revised Ordinances of Albuquerque, New Mexico, 1994. SECTION 13. RE-EVALUATION. The City shall coordinate with cooperators and stakeholders within eighteen-months of adoption of this ordinance to evaluate other alternatives to on-site mitigation that may be advanced through by better utilization of existing or planned public drainage infrastructure. SECTION 14. EFFECTIVE DATE. This ordinance shall take effect five days following publication by title and general summary. X:\CITY COUNCIL\SHARE\CL-Staff_Legislative Staff\Legislation\23 Council\0-2CSfinal.docx





City of Albuquerque

Planning Department Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

		Hydrology File #: KIODO45	
DRB#:	EPC#:	Work Order#:	
Legal Description: Tract 7 P			
City Address: Albuquergie,	87/21 Central	Blud and Unser Blud	
Applicant: Defined Fitness	Corporation	Contact: Reta Jones	
Address: 5850 Eubank R	und, ABQ nm 871	11 Sinte B-62	
Phone#: 075-0000	Fax#:	E-mail: retaedefined.com	
Other Contact: mark bood	un & Associates, PI	A Contact: Cory Pierce	
Address: PO Box 900000	AGO nm 87/99		
hone#: <u>828-2200</u>	Fax#:	E-mail: Coryegudunengineers	
TYPE OF DEVELOPMENT:	PLAT (# of lots)RE	SIDENCE DRB SITE ADMIN SITE	
S THIS A RESUBMITTAL?	Yes No		
DEPARTMENT TRANSPORT	ATION HYDROLO	DGY/DRAINAGE	
Check all that Apply:		YPE OF APPROVAL/ACCEPTANCE SOUGHT:	
		BUILDING PERMIT APPROVAL	
TYPE OF SUBMITTAL: CERTIFICATE OF OCCUPANCY			
ENGINEER/ARCHITECT CERT	FICATION -		
PAD CERTIFICATIONPRELIMINARY PLAT APPROVAL		PRELIMINARY PLAT APPROVAL	
CONCEPTUAL G & D PLAN		SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL	
GRADING PLAN			
DRAINAGE REPORT DRAINAGE MASTER PLAN		FINAL PLAT APPROVAL	
FLOODPLAIN DEVELOPMENT	PERMIT APPLIC		
ELEVATION CERTIFICATE		SIA/ RELEASE OF FINANCIAL GUARANTEE	
CLOMR/LOMR		FOUNDATION PERMIT APPROVAL	
TRAFFIC CIRCULATION LAYO		GRADING PERMIT APPROVAL	
TRAFFIC IMPACT STUDY (TIS	· · · · · ·	SO-19 APPROVAL	
STREET LIGHT LAYOUT		PAVING PERMIT APPROVAL	
OTHER (SPECIFY)		GRADING/ PAD CERTIFICATION	
PRE-DESIGN MEETING?		WORK ORDER APPROVAL	
		CLOMR/LOMR	
	-	FLOODPLAIN DEVELOPMENT PERMIT	
		OTHER (SPECIFY)	
DATE SUBMITTED:O -38	-18 By: Cory	Pierce	
COA STAFF	ELECTRONIC SUBMI	TTAL RECEIVED:	

FEE PAID

OVERALL HYDROLOGY PLAN:

THE PROJECT IS THE GRADING OF DEFINED FITNESS, A HEALTH CLUB THAT WAS PART OF AN OVERALL PLAN FOR UNSER CROSSING FOR LOWE'S HOME CENTERS, INC. PREPARED BY BOHANAN HUSTON IN 2008. THE OVERALL SITE IS BOUNDED BY CENTRAL AVENUE, UNSER BLVD, BRIDGE BLVD, AND 88TH ST. PUBLIC INFRASTRUCTURE WAS CONSTRUCTED FOR UNSER CROSSING INCLUDING A DETENTION POND SYSTEM, ROADWAYS, CURB AND GUTTER WITH PORTIONS OF SIDEWALK AROUND THE DEFINED FITNESS SITE THAT MANAGE OFFISITE FLOWS IN ACCORDANCE WITH THE 2008 UNSER CROSSING DRAINAGE MANAGEMENT PLAN.

A SMALL PORTION OF THE DEFINED FITNESS SITE DRAINS TO THE WEST TO EXISTING STORM DRAIN CONSTRUCTED AS PART OF THE USER CROSSING PUBLIC INFRASTRUCTURE, AND THE LARGER PORTION TO PROPOSED ONSITE STORM DRAIN THAT CONNECTS THE OFFSITE FLOW FROM THE NORTH TO THE EXISTING DETENTION POND IN ACCORDANCE WITH THE 2008 DRAINAGE MANAGEMENT PLAN. THE PROPOSED ON SITE STORM DRAIN REPLACES AN EXISTING EARTHEN CHANNEL THAT CONVEYS OFFSITE FLOW FROM THE NORTH TO THE SOUTH OF THE DEFINED FITNESS SITE, INTO EXISTING STORM DRAIN, ULTIMATELY INTO THE EXISTING DETENTION POND SYSTEM TO THE SOUTH.

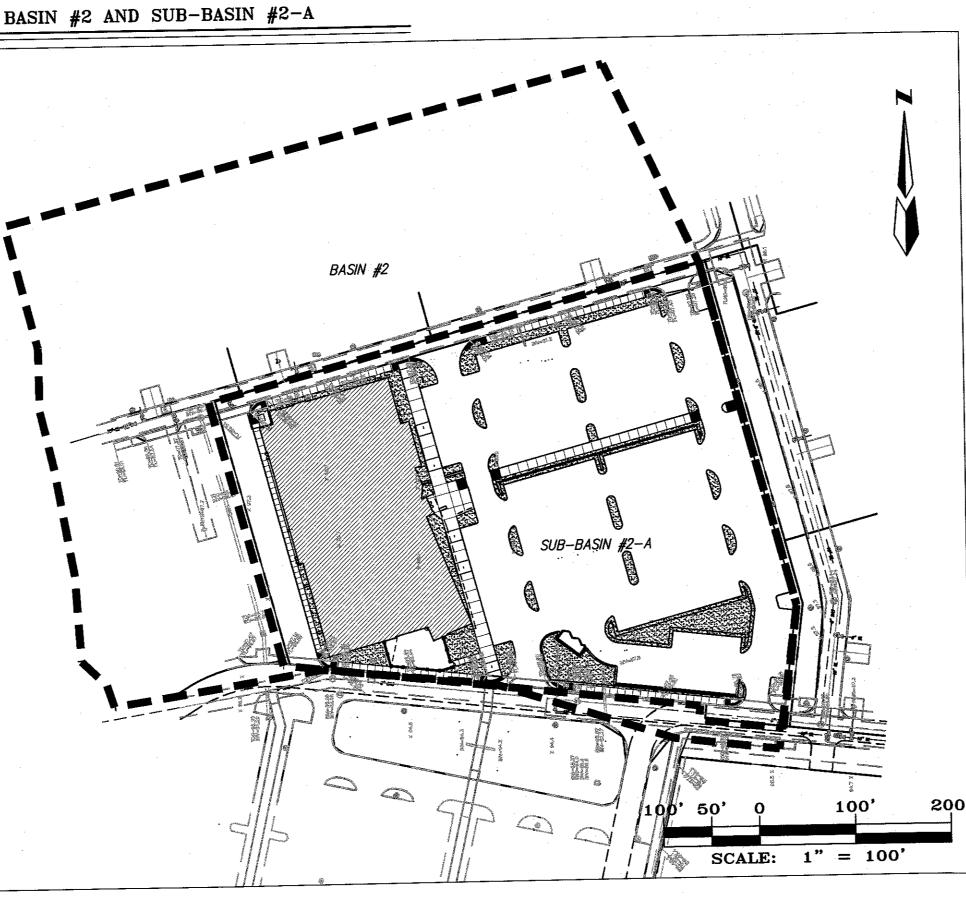
THOUGH THE SITE PLAN IS MOSTLY UNCHANGED FROM THE 2008 UNSER CROSSING PLANS, THE GRADING AND INLETS ARE NOW DESIGNED TO CAPTURE FIRST FLUSH WHICH WAS NOT REQUIRED IN 2008. THE PROPOSED DESIGN RELOCATES THE INLETS INTO THE ISLAND LANDSCAPE AREAS TO BE UTILIZED AS FIRST FLUSH CAPTURE PONDS.

Typical Lot

Sub-Basin 2 Basin 2 (Dev Basin 2 (Def Inlet #3 (Fir

First Flush Basin #3

Hydraftow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc. **BASIN #3 INLET** Calculations Drop Grate Inlet Known Q Compute by: = Sag Location = 4.36 Q (cfs) = -0-Curb Length (ft) = -0-Throat Height (in) Highlighted = 9.66 Grate Area (sqft) = 4.36 Q Total (cfs) = 2.15 Grate Width (ft) = 4.36 Q Capt (cfs) = 6.42 Grate Length (ft) = -0-Q Bypass (cfs) = 2.31 Depth at Inlet (in) Gutter = 100 Efficiency (%) Slope, Sw (ft/ft) = 1.000 = 4.39 Gutter Spread (ft) = 1.000 Slope, Sx (ft/ft) = -0-Gutter Vel (ft/s) = 12.00 Local Depr (in) = -0-Bypass Spread (ft) = 4.00 Gutter Width (ft) = -0-Bypass Depth (in) = -0-Gutter Slope (%) = -0-Gutter n-value



DRAINAGE REPORT

THE 2008 DRAINAGE MANAGEMENT PLAN PREPARED BY BOHANNAN HUSTON (BRUCE STIDWORTHY, PE, STAMP DATE 10/30/08) EVALUATED DISCHARGE FOR THE BASIN ENCOMPASSING THE SITE. THE DEFINED FITNESS SITE IS A PORTION OF BASIN #2 OF THE 2008 DRAINAGE MANAGEMENT PLAN. DISCHARGE FROM BASIN #2 WAS EVALUATED AT 39.55 CFS PER THE 2008 DRAINAGE MANAGEMENT PLAN AND AS CONFIRMED UTILIZING THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS OUTLINED IN CHAPTER 22 OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL WITH DEVELOPED LAND TREATMENTS OF 0% A, 5% B, 5% C, AND 90% D. THE PROPOSED DEFINED FITNESS SITE HAS LAND TREATMENT PROPORTIONS OF 0% A, 5% B, 6% C, AND 89% D; ESSENTIALLY THE SAME AS THE 2008 SITE. WITH DEVELOPMENT OF THE DEFINED FITNESS SITE, ASSUMING NO OTHER PORTION OF BASIN #2 IS DEVELOPED TO THE LAND TREATMENTS PRESCRIBED IN THE 2008 DRAINAGE PLAN, THE DISCHARGE Q FROM BASIN #2 IS ESTIMATED AT 27.87 CFS. WITH ROUTING AND RETENTION EFFECTS OF FIRST FLUSH CAPTURE AS PROPOSED FOR THE DEFINED FITNESS SITE, AND FIRST FLUSH CAPTURE FROM THE FUTURE DEVELOPEMENT OF THE REMAINDER OF BASIN #2, THE DISCHARGE Q TO THE EXISTING POND IS ESTIMATED TO BE A LITTLE LESS THAN THE 39.55 CFS FOR WHICH THE EXISTING POND SYSTEM WAS DESIGNED TO.

Tuesday, Oct 2 2018

4

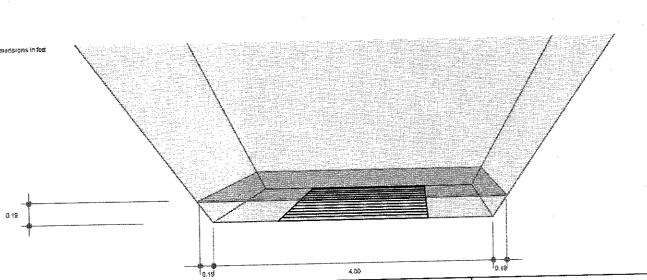
CALCULATIONS FOR BASIN #2, BASIN #2 WITH DEFINED FITNESS ONLY, AND THE SUB-BASIN 2-A FOR THE DEFINED FITNESS:

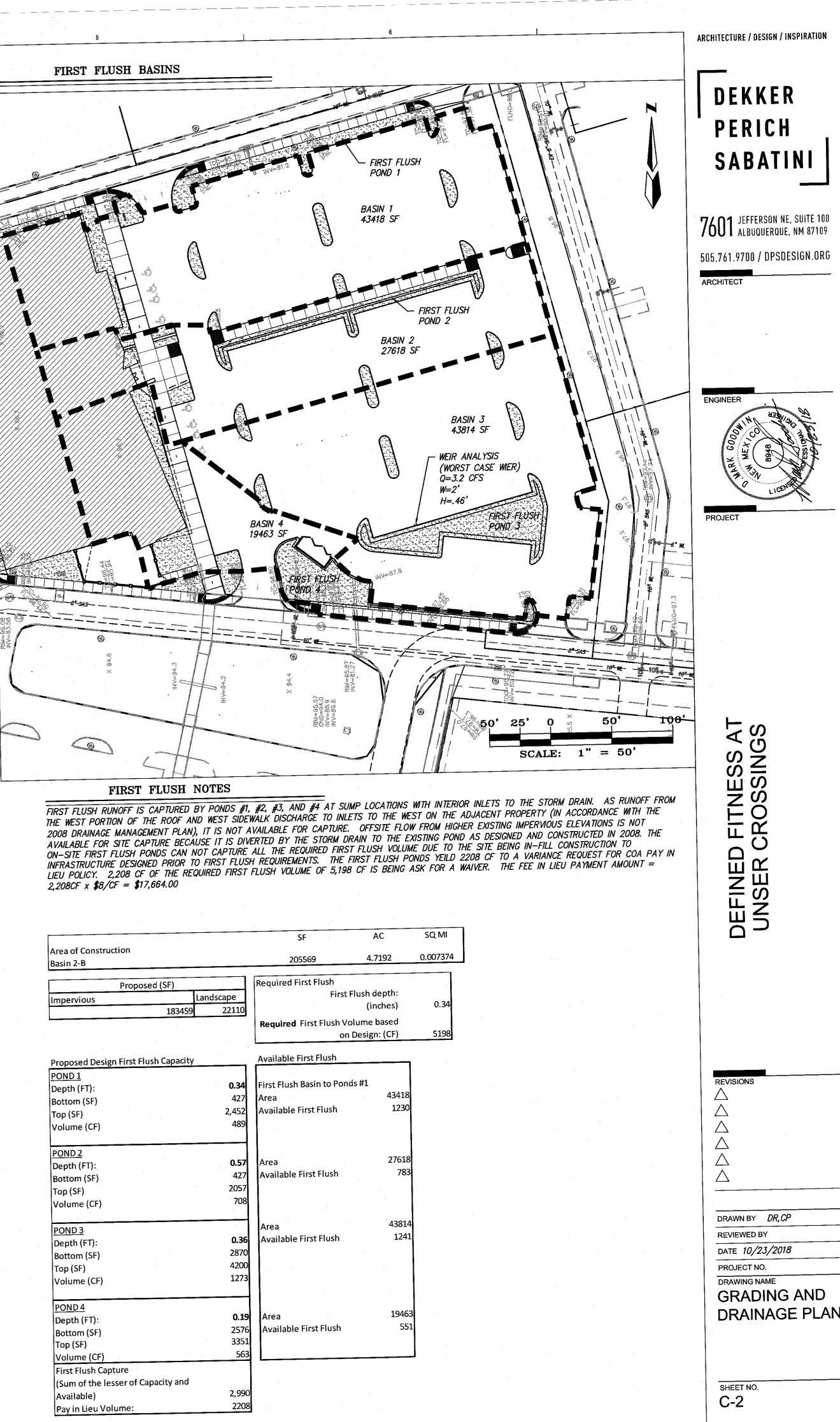
<i>"</i> ··· <i>"</i>								
- official second					Runoff			
t Run Off Volume:	Area (Ac)	A	В	С	D.	Volume	Q(100)	
	4.748	0%	5%	5%	90%	0.7343	19.84	
2-A	9.467	0%	5%	5%	90%	1.4642	39.55	
eveloped per 2008 Report)	9.467	26%	26%	-	48%	0.9676	27.87	
efined Fitness Development)	1.006		1%	1%	98%	0.1632	4.36	
irst Flush Basin #3)	1.000							

43814 (SF)

Flow by proportion to worst case 0.46 3.20 (C Wier Depth (FT) curb opening Width 2.6 Weir Coeff 3.24 (CFS) Wier Discharge

Inlet Report

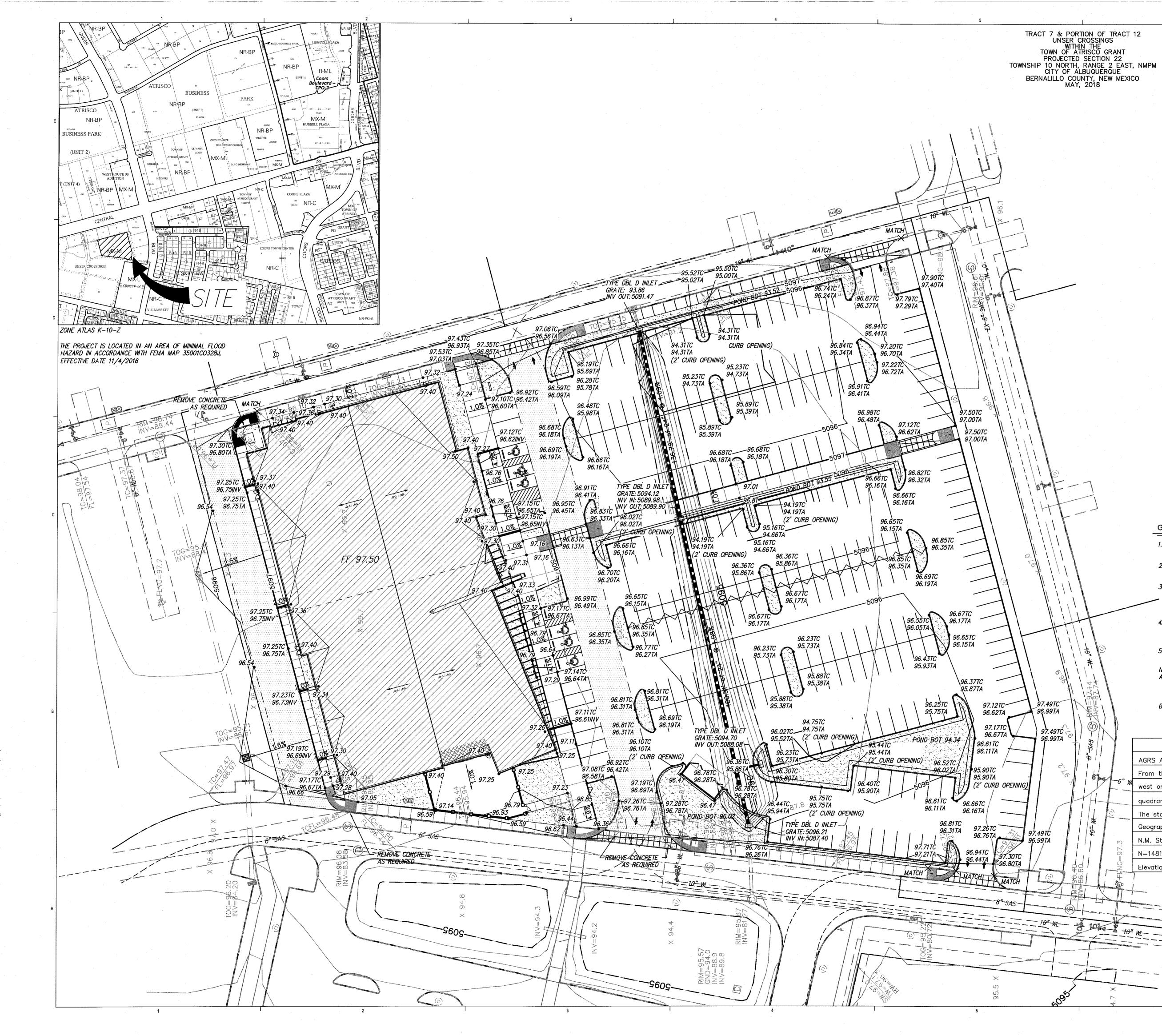




Area of Constr	uction
Basin 2-B	
	Proposed (SF
Impervious	
	1

Proposed Design First Flush Cap
POND 1
Depth (FT):
Bottom (SF)
Top (SF)
Volume (CF)
POND 2
Depth (FT):
Bottom (SF)
Top (SF)
Volume (CF)
POND 3
Depth (FT):
Bottom (SF)
Top (SF)
Volume (CF)
POND 4
Depth (FT):
Bottom (SF)
Top (SF)
Volume (CF)
First Flush Capture
(Sum of the lesser of Capacity
Available)
Pay in Lieu Volume:

5



	6		· · · · · · · · · · · · · · · · · · ·
	LEGEN	ND	ARCHITECTURE / DESIGN / INSPIRATIO
-	- 5565-	- CONTOUR (MAJOR)	DEKKER
		CONTOUR (MINOR)	
	and and an and a second	CURB – 6"	PERICH
		CONCRETE	SABATINI
	· .	WALL	
	TC=	TOP CURB / FLOW LINE	7601 JEFFERSON NE, SUITE 10 ALBUQUERQUE, NM 87109
	X 65.00	SPOT ELEVATION	505.761.9700 / DPSDESIGN.OR
	S	SANITARY SEWER MANHOLE	ARCHITECT
	0	SANITARY SEWER CLEANOUT	
	\bigcirc	STORM DRAIN MANHOLE	
		CATCH BASIN/DROP INLET	
		CMP/PVC DRAIN PIPE	ENGINEER
	E	ELECTRIC TRANSFORMER/PEDESTAL	AN LIGHT STREET
	⊠8"	WATER VALVE/SIZE	MEX. 600
	rĜr	FIRE HYDRANT	
	(HB)	HOTBOX	PROJECT
	P	PULLBOX	
	6	LIGHT POLE BASE	
		SIGN	
	\boxtimes	TELEPHONE/FIBER OPTIC PEDESTAL	
	\otimes	CABLE TV PEDESTAL	
		SIDE WALK CULVERT PER COA STD DETAIL 2236	
		TYPE DOUBLE D INLET PER STD DETAIL 2206	
GE		ES:	IGO IGO
1.		NUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE L HEALTH DIVISION PRIOR TO CONSTRUCTION.	ES: SIN
2.		QUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS , LATEST EDITION SHALL GOVERN ALL WORK.	INT SOS
3.	FEDERAL DUST RESPONSIBLE F	TOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND CONTROL MEASURES AND REQUIREMENTS AND WILL BE FOR PREPARING AND OBTAINING ALL NECESSARY AND APPROVALS.	ED FI R CR
4.	INTO PUBLIC RI	TOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS IGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TRMS AND WETTING THE SOIL TO KEEP IT FROM BLOWING.	NSE NSE
5.	NO WORK ALLO APPROVED WOR	OWED IN THE PUBLIC RIGHT OF WAY WITHOUT AN RK ORDER.	ЫЭ
		TO CONFIRM STORM DRAIN CONNECTION R TO STORM DRAIN CONSTRUCTION AND EER.	
В.	FIRST FLUSH I GRAVEL.	POND SLOPES TO BE SURFACED WITH 1"	

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N N

6"24/

BENCHMARKS REVISIONS AGRS Aluminum Cap stamped "7-L10 2002" From the intersection of Coors Boulevard and Bridge Boulevard SW, trave west on Bridge Boulevard 0.6 miles to the station in the southeast quadrant of the intersection of Bridge Boulevard and Unser Boulevard. \triangle The station is set in the top of curb on the SSE return. \triangle Geographic Position, in feet (NAD83) ----N.M. State Plane Coordinates (Central Zone) _____ N=1481743.359, E=1498883.801, G-G=0.999683498, DA=-00°16'18.49" DRAWN REVIEW Elevation, in feet (NAVD88) = 5088.067-----DATE 1 PROJEC DRAWIN GRA DRA SHEET NO. C-1 SCALE: 1'' = 30'

BY DR,CP
ED BY
0/23/2018
CT NO.
IG NAME
ADING AND
INAGE PLAN
·····