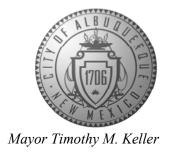
Planning Department
Alan Varela, Interim Director



December 16, 2021

Ryan Morrissey, P.E. Burkhardt Engineering 28 North Cherry St. Germantown, OH, 45327

RE: Champion Xpress Car Wash 1520 Juan Tabo Blvd. NE Grading and Drainage Plan Engineer's Stamp Date: 11/03/21 Hydrology File: J22D031

Dear Mr. Morrissey:

Based upon the information provided in your submittal received 11/03/2021, the Grading & Drainage Plan **is not** approved for Building Permit, SO-19 Permit, and for action by the DRB on Site Plan for Building Permit. The following comments need to be addressed for approval of the above referenced project:

PO Box 1293

SHEET C3.0

Albuquerque

1. Update contact information for Water Authority. I am no longer with Water Authority.

UTILITY CONTACT INFORMATION:

NM 87103

SANITARY SEWER / WATER
Albuquerque Bernalillo County Water Utility Authority

Contact: David Gutierrez

Telephone: 505.289.3307
Email: dggutierrez@abcwua.org

www.cabq.gov

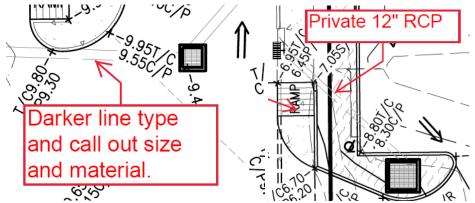
2. Verify grate elevations as they should work with the drainage structure and not flow out of the grate in the event it exceeds the weir elevation.

3. Call out proposed pipe sections and materials and please change line type to make them bold and pop out. Please note/label "private" ownership and maintenance on private infrastructure.

Planning Department
Alan Varela, Interim Director



Mayor Timothy M. Keller



- 4. Provide existing top of pipe elevation at Juan Tabo and provide proposed top of pipe elevations.
- 5. Please include existing flow line elevations at Juan Tabo.

6.

SHEET C3.1

PO Box 1293

1. Please provide the weir calculations, per DPM Article 6-16(A), for the curb cuts and sidewalk culverts. A coefficient of 2.7 is typically used for the weir equation $Q = CLH^{2/3}$.

Albuquerque

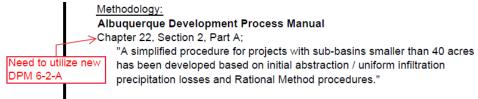
2. The proposed entrances need to follow standard details. Please see CoA Standard Detail 2426. Check with Transportation.

3. Please update the SO-19 Notes. See Attachment.

NM 87103

4. Update reference to updated DPM and go over calculations as details have changed in the new DPM. Ensure numbers are updated in the associated tables and information based on new DPM values.

www.cabq.gov



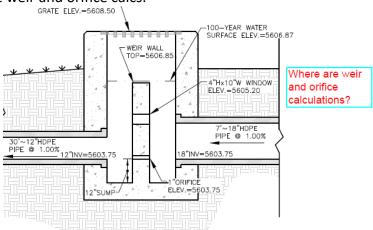
- b. Please use the procedure for 40 acre and smaller basins as outlined in Development Process Manual (DPM) (signed 06/08/20) Article 6-2(a). Please provide both the existing conditions and proposed conditions for the 100 year-6 hour storm event.
- 5. Include details of the outfall structure at the pond.
- 6. Include details of all the inlets at grates. What Type? Standards?
- 7. Please utilize RCP for the section of pipe connecting to Juan Tabo Blvd. HDPE for the remaining sections is fine.
- 8. Refer to previous/existing G&D for the site and call out 20% Free Discharge and follow that information.
- 9. A water block, 0.87' high, per COA Paving Detail No. 2426, is required at the driveway entrances. Please utilize this detail for the entrances.

Planning Department
Alan Varela, Interim Director



Mayor Timothy M. Keller

- 10. Please add a note under Grading Notes. "Side slopes need to be stabilized with Native Grass Seed (per City Spec 1012) with Aggregate Mulch or equal (Must satisfy the "Final Stabilization criteria" CGP 2.2.14.b.)".
- 11. Provide a detail of the pond including property line, inlet and to include volume and max water elevation.
- 12. Include weir and orifice calcs.



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Albuquerque

NM 87103

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13. Consider removing the median at the entrance. If it is to remain, please remove the portion within public right-of-way and keep this within the property.



As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 924-3965 or dggutierrez@cabq.gov

Planning Department Alan Varela, Interim Director



Sincerely,

David G. Gutierrez, P.E. Senior Engineer, Hydrology Planning Departmen

Die Gul

PO Box 1293

Albuquerque

NM 87103

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City of Albuquerque

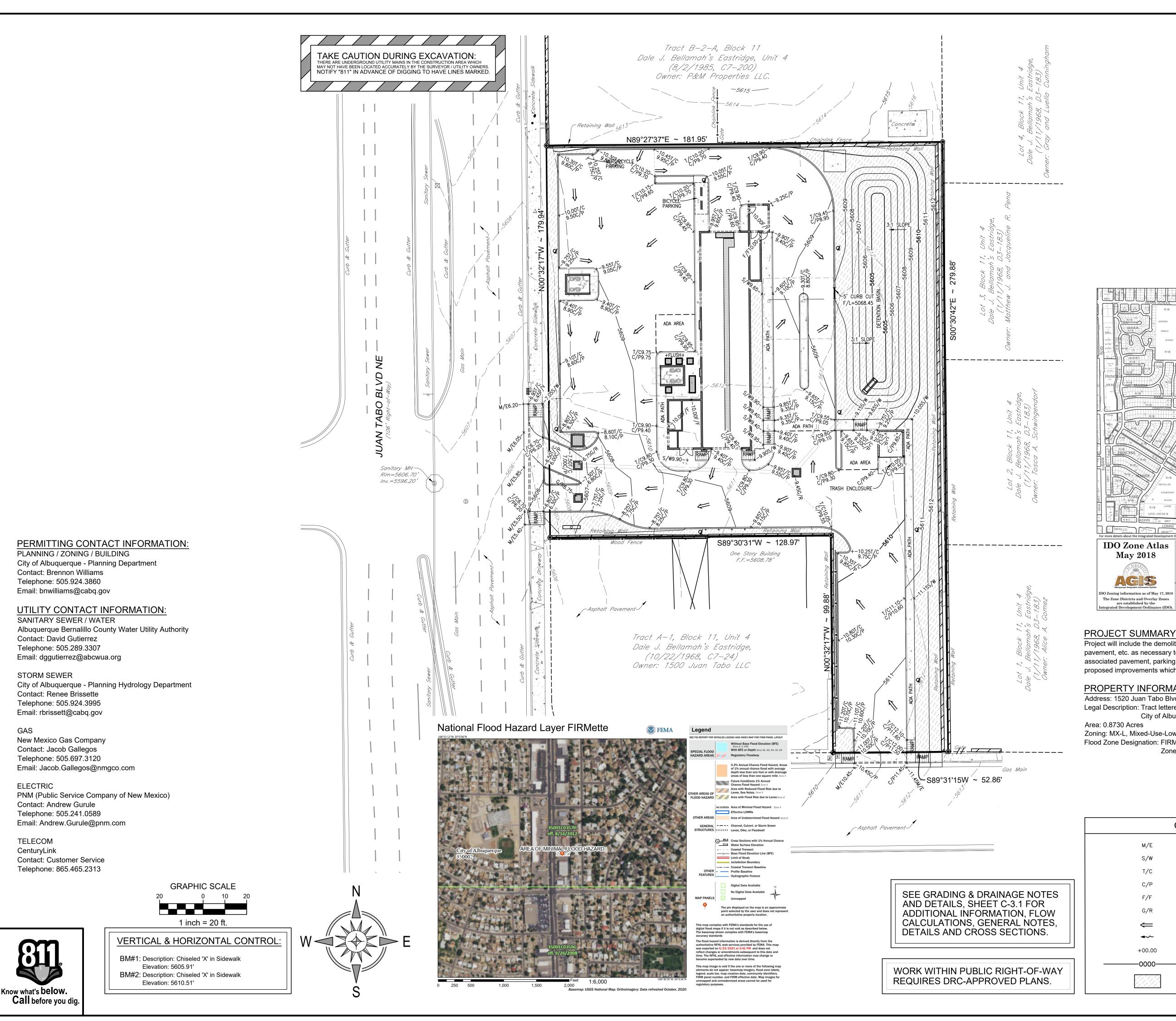
Planning Department

Development & Building Services Division

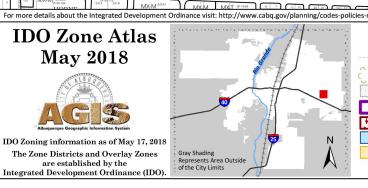
DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Champion Xpress Car Wash	_Buildin	g Permit #:	Hydrology File #:
DRB#:	_ EPC#:		Work Order#:
Legal Description: Tract Lettered B-1, Bloc			
City Address: 1520 Juan Tabo Blvd NE			
Applicant: Andrew Doerfler Address: 28 North Cherry Street Germantow			Contact:
Address: 28 North Cherry Street Germantow	n, OH 45	5327	
Phone#: <u>937-388-0060</u>	_Fax#:		E-mail: adoerfler@burkhardtinc.com
Other Contact: Modulus Architects Address: 100 Sun Ave. NE, suite 600, Albuq	uerque N	JM 87109	Contact: Regina Okoye
			E-mail: rokoye@modulusarchitects.com
TYPE OF DEVELOPMENT: PLAT (
IS THIS A RESUBMITTAL? Yes			
DEPARTMENT TRANSPORTATION			IAGE
	71		
Check all that Apply:			PROVAL/ACCEPTANCE SOUGHT:
TYPE OF SUBMITTAL:		·	NG PERMIT APPROVAL
ENGINEER/ARCHITECT CERTIFICATION	J	CERIIFI	CATE OF OCCUPANCY
PAD CERTIFICATION		DDEI IM	INARY PLAT APPROVAL
CONCEPTUAL G & D PLAN		·	AN FOR SUB'D APPROVAL
X GRADING PLAN			AN FOR SUB D AFFROVAL AN FOR BLDG. PERMIT APPROVAL
DRAINAGE REPORT		·	PLAT APPROVAL
DRAINAGE MASTER PLAN		FINAL F	LAI AFFROVAL
FLOODPLAIN DEVELOPMENT PERMIT A	APPLIC	SIA/ DEI	LEASE OF FINANCIAL GUARANTEE
ELEVATION CERTIFICATE			ATION PERMIT APPROVAL
CLOMR/LOMR		·	IG PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL))	GRADIN SO-19 A	
TRAFFIC IMPACT STUDY (TIS)		' <u></u>	F PERMIT APPROVAL
STREET LIGHT LAYOUT		·	IG/ PAD CERTIFICATION
OTHER (SPECIFY)	_		ORDER APPROVAL
PRE-DESIGN MEETING?		WORK O	
		·	PLAIN DEVELOPMENT PERMIT
		' <u></u>	(SPECIFY)
DATE SUBMITTED:	=	Andrew Doerfler	
COA STAFF:		RONIC SUBMITTAL RECEIVI	ED:

FEE PAID:_____







Project will include the demolition and removal of existing structures, utilities, vegetation, pavement, etc. as necessary to construct a new Champions Xpress Car Wash and its associated pavement, parking facilities, utilities, landscaping, signage and any other proposed improvements which are needed to service the facility.

PROPERTY INFORMATION

Address: 1520 Juan Tabo Blvd. NE, Albuquerque, NM 87112 Legal Description: Tract lettered B-1, Block 11 Dale J. Bellamah's Eastridge Unit 4, City of Albuquerque, Bernalillo County, New Mexico.

Zoning: MX-L, Mixed-Use-Low Intensity Zone District

Flood Zone Designation: FIRM # 35001C0357H, effective date: August 16, 2012 Zone "X": Areas determined to be outside the 0.2% annual chance floodplain

GRADING LEGEND

M/E	MATCH EXISTING PAVEMENT GRADE
S/W	SIDEWALK PAVEMENT
T/C	TOP-OF-CURB
C/P	CONCRETE PAVEMENT GRADE
F/F	FINISHED FLOOR GRADE
G/R	GRATE ELEVATION
\Leftarrow	SHEET FLOW
	CHANNEL / GUTTER FLOW
+00.00	PROP. SPOT ELEVATION

PROP. CONTOUR

LANDSCAPE AREA

DRAINAGE PLAN

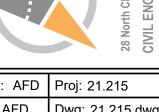
Sheet No.:

C - 3.0

52 52 Zone Atlas Page **J-21-Z** Escarpment Escarpment Petroglyph National Monument Areas Outside of City Limits Airport Protection Overlay (APO) Zone
Character Protection Overlay (CPO) Zone Historic Protection Overlay (HPO) Zone Feet 0 250 500 1,000







Design: AFD Proj: 21.215 Draw: AFD Dwg: 21.215.dwg Check: RJM Tab: C3.0-GP

Scale: 1" = 20'

11.03.2021

GRADING &

Private Drainage Facilities within City Right-of-Way Notice to Contractor

(Special Order 19 ~ "SO-19")

- 1. Build sidewalk culvert per COA STD DWG 2236.
- 2. Contact Storm Drain Maintenance at (505) 857-8033 to schedule a meeting prior to forming.
- 3. An excavation permit will be required before beginning any work within City Right-Of-Way.
- 4. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
- 5. Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the location of existing utilities.
- 6. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- 8. Maintenance of the facility shall be the responsibility of the

7. Backfill compaction shall be according to traffic/street use.

- owner of the property being served.
- 9. Work on arterial streets may be required on a 24-hour basis.
- 10. Contractor must contact Storm Drain Maintenance at (505) 857-8033 to schedule a construction inspection. For excavating and barricading inspections, contact Construction Coordination at (505) 924-3416.

STORM WATER MANAGEMENT NOTES:

Existing Lot Coverage - 100% impervious

Proposed Lot Coverage - 75% impervious / 25% landscaping

Net Decrease in Storm Water Runoff due to Development

Albuquerque Development Process Manual

Chapter 22, Section 2, Part A;

"A simplified procedure for projects with sub-basins smaller than 40 acres has been developed based on initial abstraction / uniform infiltration precipitation losses and Rational Method procedures."

For determining run-off rates, the SCS method was used to determine the existing run-off to Juan Tabo Blvd. This area is approximately 0.38 acres of land that is 95% impervious. The detention basin summary table below shows the run-off rates for the various storm events analyzed.

The proposed detention basin outlets to Juan Tabo Blvd at lower release rates than the existing conditions as shown in the table below.

Storm Water Quality Volume (WQv) = Impervious Area x 0.26 inches

Precipitation Zone:

Precipitation Zone 3: "Between the San Mateo and Eubank"

Drainage Summary:

Area = 0.87 acres

Treatment B (Desert Landscaping Area) - 25% = 0.22 acres Treatment D (Impervious Area) - 75% = 0.65 acres

100-year peak Discharge Rate = 3.73 cfs/acre (Table A-9) $Q_{100} = 3.42 \text{ cfs}$

WQv = 618 cu-ft (required)

 $Q_{100} = 1.95 \text{ cfs (proposed)}$

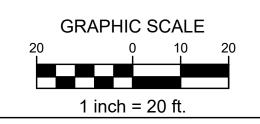
Provided Water Quality Storage Volume:

		9	
Elevation	Contour Area	Incremental Vol.	∑Volume
(ft)	(sq-ft)	(cu-ft)	(cu-ft)
5604	10	0	0
5605	518	264	264
5606	1,100	809	1,073
5607	1,765	1,433	2,506
5608	2,474	2,120	4,625
5609	2,857	2,857	7,482

*Average End Area Method used to calculate storage volumes.

Stage Storage Discharge Summary

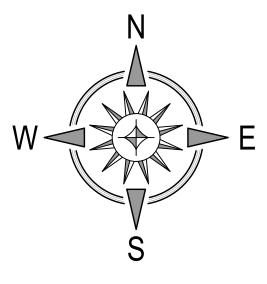
Stage Storage Discharge Summary:			
Elevation	Storage Volume	Discharge	
(ft)	(sq-ft)	(cu-ft)	
5604	10	0	
5605	264	0.04	
5605.55	709	0.29	
5606	1,073	0.77	
5606.85	2,291	1.55	
5607	2,506	2.18	
5608	4,625	7.18	
5609	7,482	8.21	







BM#1: Description: Chiseled 'X' in Sidewalk Elevation: 5605.91' BM#2: Description: Chiseled 'X' in Sidewalk Elevation: 5610.51'



TAKE CAUTION DURING EXCAVATION:

MAY NOT HAVE BEEN LOCATED ACCURATELY BY THE SURVEYOR / UTILITY OWNERS.
NOTIFY "811" IN ADVANCE OF DIGGING TO HAVE LINES MARKED.

Storm	Allowable	Inflow	Outflow	Max Elevation	Storage Volume
(yr)	(cfs)	(cfs)	(cfs)	(ft)	(cu-ft)
1	0.54	0.86	0.09	5605.60	750
2	0.70	1.22	0.49	5605.84	941
5	0.91	1.70	0.87	5606.09	1,197
10	1.08	2.08	1.04	5606.25	1,433
25	1.30	2.60	1.23	5606.49	1,770
50	1.47	3.00	1.37	5606.67	2,034
100	1.65	3.42	1.58	5606.87	2,315

Detention Basin Performance Summary:

Tract B-2-A, Block 11

Dale J. Bellamah's Eastridge, Unit 4

(8/2/1985, C7-200)

Owner: P&M Properties LLC.

N89°27'37"E ~ 181.95'

 \Leftarrow

Tract A-1, Block 11, Unit 4

Dale J. Bellamah's Eastridge,

(10/22/1968, C7–24) Owner: 1500 Juan Tabo LLC

~ _

Curb & Gutter

PRINCESS JEANNE AVENUE (50' Right-of-Way)

Curb & Gutter

Concrete Sidewalk 4 4 4

Retaining Wall 661

Concrete

TRASH ENCLOSURE

Asphalt Pavement

S89°31'15W ~ 52.86'

S89°30'31"W ~ 128.97'

One Story Building F.F.=5608.78'

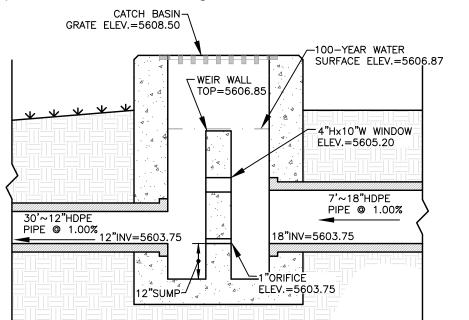
GENERAL GRADING, EARTHWORK & DRAINAGE NOTES

- 1. All spot elevations indicated in pavement areas are at bottom face of curb and/or finished pavement grade unless noted otherwise. All spot elevations indicated in grass or landscape areas are finished grade unless noted
- 2. The Contractor shall be responsible for the removal and disposal of all vegetation and organic materials from the site that results from clearing & grubbing activities.
- 3. The Contractor shall be responsible for stripping and removal of all excess topsoil from the site. All topsoil that cannot be used on site shall be removed from the site at the Contractor's expense. The Contractor may dispose of excess topsoil by burying topsoil in landscape areas only at the direction of the Owner or the Owner's Representative.
- 4. The Contractor will be responsible for all safety requirements and for the protection of all existing and proposed utilities or structures during earthwork
- 5. The Contractor shall be responsible for the import of structural fill materials if suitable material is not available on site. The location and testing of suitable material shall be the Contractor's responsibility. The Contractor shall be responsible for the export and disposal of all excess or unsuitable materials.
- 6. The Contractor shall provide construction dewatering as necessary to complete construction as outlined in plans.
- 7. The Contractor shall exercise extreme care in establishing all grades and slopes in pavement areas, ramps and sidewalks in the vicinity of handicap parking and access areas and shall comply with Federal, State, and Local
- 8. In areas where sheet drainage flows from grass or landscape areas onto paved areas, the finished grade in grass or landscape areas shall be 1/2 inch above the top of curb or above the pavement in areas without curb. In areas where sheet drainage flows from pavement to grass or landscaped areas, the finished grade in grass or landscape areas shall be 1/2 inch below the pavement.
- 9. The Contractor shall provide positive drainage in all areas and away from all
- 10. All pavement shall be laid on a straight, even, and uniform grade with a minimum of 1:100 (1.0%) slope toward the collection points unless otherwise specified on plans. Cut or fill slopes in unpaved areas shall not exceed 3:1 (33.3%) maximum grade unless otherwise noted on plans.
- 11. ADA accessible areas shall not exceed the following slopes:

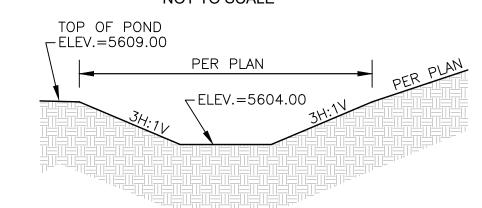
Ramps - 1:12 (8.3%) max. Routes - 1:20 (5.0%) max. Parking - 1:50 (2.0%) max. Cross Slopes - 1:50 (2.0%) max.

-+----

- 12. The Contractor shall adjust tops/lids/grates of all cleanouts, manholes, inlets, valves, etc. to match final grade.
- 13. Following grading of subsoil to subgrade elevations, the Contractor shall provide 4" of topsoil (minimum) in all disturbed areas which are not to be paved. Final grades should be smoothly finished to surrounding areas and ensure positive drainage. Stockpiled topsoil shall be screened prior to respreading and should be free of subsoil, debris, and stones.
- 14. The Contractor shall be responsible for determining exact quantities of cut and/or fill for estimating and construction and should alert the Engineer of any excessive cut and/or fill, especially if additional cut and/or fill will be required due to poor existing soil conditions discovered during earthwork
- 15. Refer to the Architectural and Structural Plans for information regarding any perimeter foundation drains.
- 16. The Contractor shall obtain a copy of the Geotechnical / Soils Report and become thoroughly familiar with site and subgrade information and fully implement recommendations given therein.



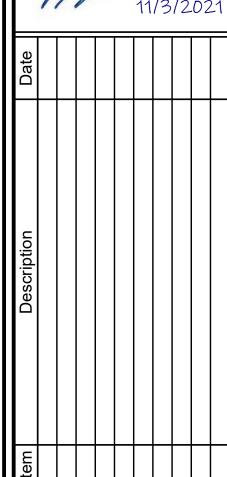
OUTLET STRUCTURE DETAIL NOT TO SCALE



1. GRADE OR EXCAVATE CROSS SECTION TO LINES AND GRADES SHOWN ON THE PLANS ACCORDING TO REQUIREMENTS IN THE GEOTECHNICAL REPORT.

> **WQv AREA SECTION** NOT TO SCALE





FOR RESS MASH **-0**5 DE 52(



Design: AFD | Proj: 21.215 Draw: AFD Dwg: 21.215.dwg Check: RJM Tab: C3.0-GP Scale: 1" = 20'

11.03.2021

GRADING & DRAINAGE NOTES AND DETAILS

C-3.