

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

December 29, 2025

Aaron Barnhart, PE
Wallace Design Collective, PC
9800 Pyramid Court, Suite 350
Englewood, CO 80112

**RE: Taco Bell – Snow Vista Blvd
Grading & Drainage Plan
Engineer’s Stamp Date: 12/12/2025
Hydrology File: M09D012D
Case #: HYDR-2025-00419**

Dear Mr. Barnhart:

PO Box 1293

Based upon the information provided in your submittal received 12/12/2025, the Grading & Drainage plan **is approved** for Grading Permit and Building Permit.

Albuquerque

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.

NM 87103

If you have any questions, please contact me at 924-3695 or tchen@cabq.gov.

www.cabq.gov

Sincerely,

Tiequan Chen, P.E.
Principal Engineer, Hydrology
Planning Department, Development Review Services

SITE PLAN

TACO BELL - SNOW VISTA BOULEVARD

ALBUQUERQUE, NM

LOT 1D. TOWN OF ASTRICO GRANT, PROJECTED SECTION 33, TOWNSHIP 10 NORTH, RANGE 2 EAST, N.M.P.M.
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DECEMBER 2021

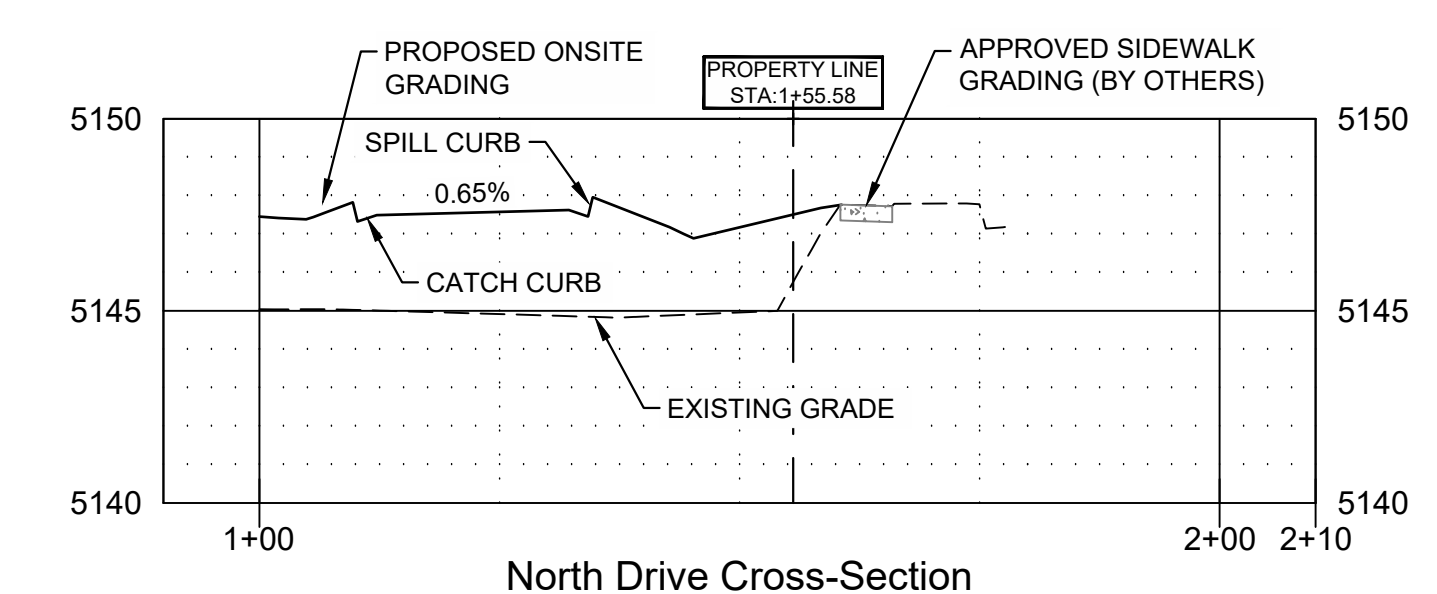
PROPERTY DESCRIPTION
TRACT A PLAT FOR TRACT A SNOW VISTA, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON 2022.

PROPERTY ADDRESS
1115 SNOW VISTA BLVD SW

SWQV POND LANDSCAPING NOTES:

- EACH POND IS TO BE STABILIZED BY SEED MIX.
- SEED MIX TO BE EQUAL TO (LLANO ESTACADO WILDFLOWER SEED MIXTURE) AS SUPPLIED BY CURTIS AND CURTIS SEED. 4500 N PRINCE STREET, CLOVIS, NM 88101. SEED MIXTURE APPLICATION TO MEET THE REQUIREMENTS OF "SECTION 1013 SLOPE STABILIZATION AND SEEDING REQUIREMENTS" PROVIDED BY THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
- REFER TO THE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



NORTHERN DRIVE - GRADING CROSS-SECTION
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

- GRADING NOTES:**
- SPOT ELEVATIONS SHOWN ARE TO GUTTER FLOW LINE. ADD 0.5' FOR TOP OF CURB ELEVATIONS
 - SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED & INSPECTED AND APPROVED BY LOCAL AUTHORITIES.
 - ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
 - EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
 - IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
 - ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
 - CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES FOR ALL GRASSED AND PAVED AREAS.
 - CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO THE SAME.
 - CONTRACTOR IS RESPONSIBLE FOR TEMPORARY ACCESS ROADS AND SHALL MAINTAIN POSITIVE DRAINAGE OF ENTIRE SITE THROUGHOUT CONSTRUCTION AND AVOID PONDING OR RUTTING. TEMPORARY DEWATERING, INCLUDING PUMPING, MAY BE REQUIRED AND SHALL BE INCLUDED IN THE SCOPE OF WORK.
 - SIDEWALKS SHALL HAVE MAX 2% CROSS SLOPE.

GRADING PLAN DESCRIPTION
EXISTING SITE GRADES GENERALLY SLOPE FROM NORTHWEST TO THE SOUTHERN CORNER OF THE OVERALL SUBDIVISION.

PROPOSED SITE GRADING SHALL TIE-IN WITH THE PROPOSED SIDEWALK FRONTAGE ALONG SNOW VISTA BLVD SW AND THE WESTERN SIDE OF THE LOT.

THE GRADING SHALL ALLOW FOR FUTURE LOT DEVELOPMENT TO THE NORTH AND SOUTH OF OUR SITE THAT FACILITATES DRAINAGE TOWARDS THE SOUTH OUTFALL, AN EXISTING 42" RCP.

LEGEND	
	STANDARD DUTY ASPHALT PAVEMENT
	REINFORCED CONCRETE PAD
	CONCRETE SIDEWALK
	RIPRAP
	EXISTING CONCRETE SIDEWALK
	TRANSITIONAL GRADING SHOWN FOR GENERAL REFERENCE BASED ON ANTICIPATED OFF-SITE GRADING BY OTHERS. CONTRACTOR TO MATCH EXISTING GRADES AT PROPERTY LINE - COORDINATE WITH ADJACENT SITE DEVELOPERS. NO OFF-SITE WORK TO BE PERFORMED BY CONTRACTOR UNDER THIS PROJECT/CONTRACT.
	6" DEPRESSED CURB AND GUTTER
	STORM DRAIN
	DRAINAGE FLOW PATH
	STORM BASIN W/ LID
	CITY OF ALBUQUERQUE DRAINAGE STORM INLET TYPE "C" DWG. 2205
	SANITARY SEWER CLEANOUT

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED

DATE: 12/22/2025
BY: *Isopne Cho*
HydroTeam # M09D012D

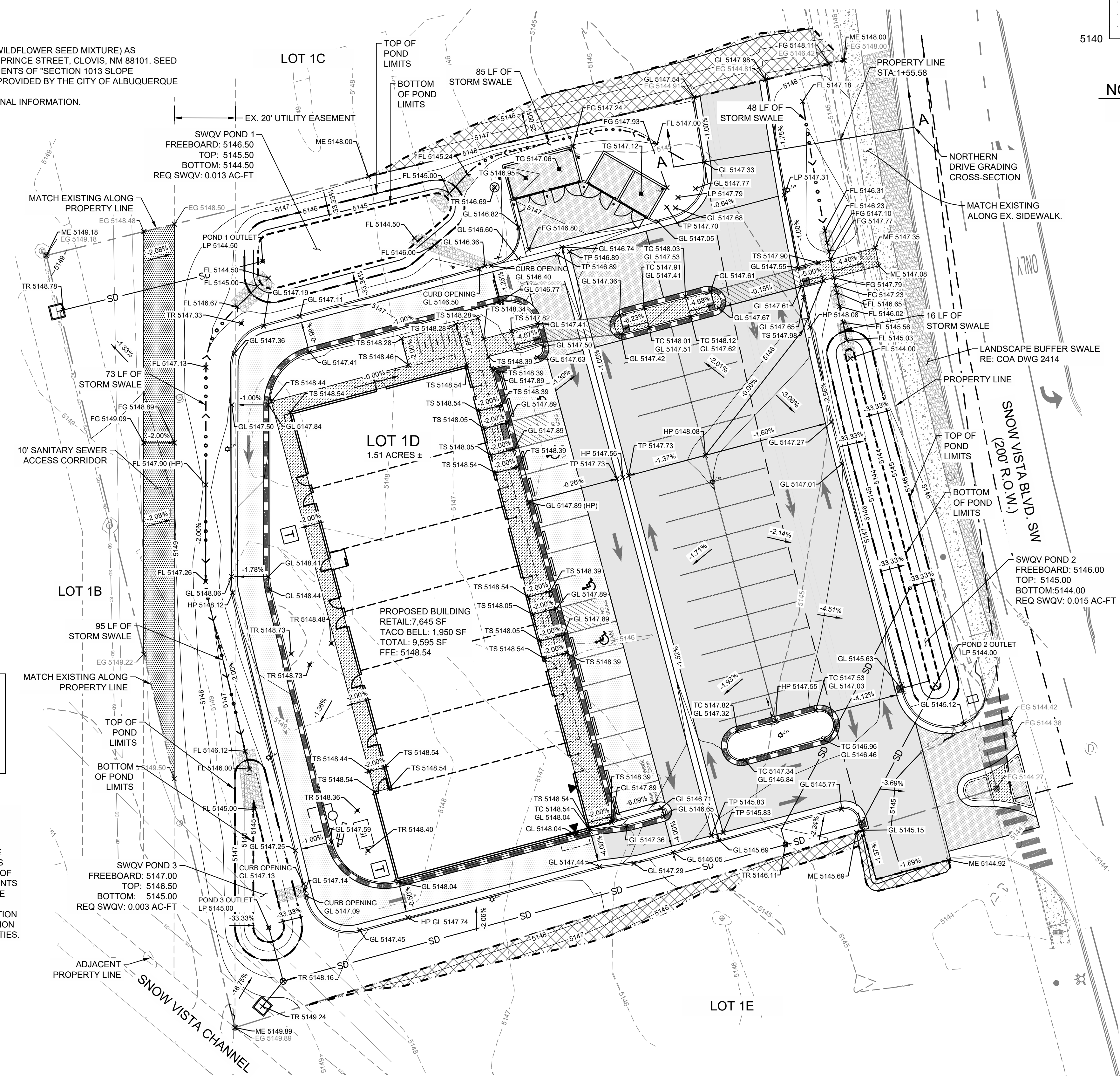
THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSIDERED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTIONS FOR ERRORS OR OMISSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTION DOCUMENTS, SUCH APPROVED PLANS/REPORTS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.
THE APPROVAL OF THESE PLANS/REPORTS SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE IF NO BUILDING PERMIT HAS BEEN FILED ON THE DEVELOPMENT.

GRADING ELEVATION ABBREVIATIONS	
FF	FINISHED FLOOR
FG	FINAL GRADE
FL	FLOW LINE
TS	TOP OF SIDEWALK
GL	GUTTER LINE
TG	TOP OF GRATE
TR	TOP OF RIM
TP	TOP OF PAVEMENT
HP	HIGH POINT
LP	LOW POINT

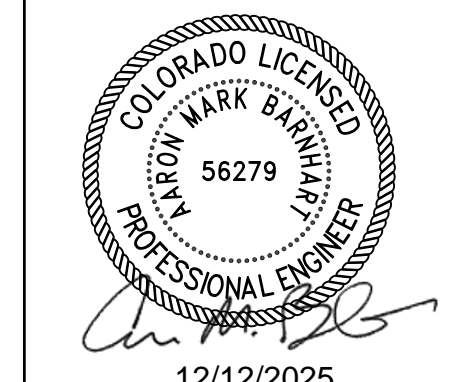
TOTAL DISTURBED AREA	1.57 ACRES
PROJECT SITE AREA	1.51 ACRES
EXISTING IMPERVIOUS AREA	0.01 ACRES
EXISTING PERVIOUS AREA	1.50 ACRES
PROPOSED IMPERVIOUS AREA	0.92 ACRES
PROPOSED PERVIOUS AREA	0.59 ACRES

CAUTION

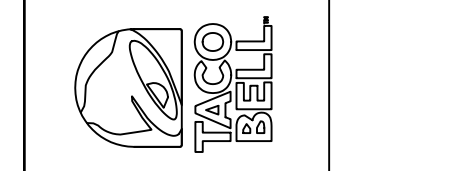
NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES.



wallace design collective
structural-civil-landscape-survey
9800 pyramid court, suite 350
englewood, co 80112
303.350.1690 303.344.5858



TACO BELL
98TH & SAGE
1115 SNOW VISTA BLVD SW
ALBUQUERQUE, NM



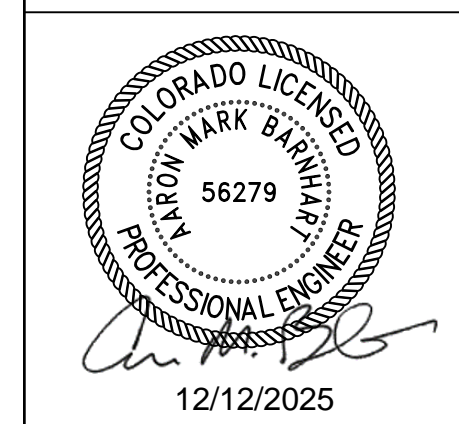
DATE	DESCRIPTION	REV
12/12/2025	GRADING PLAN	
2175023		

GRADING PLAN
SHEET NO. **C500**

PLOT: 12/12/2025 1:55:53 PM ORIG SIZE: 22"x34" \\\server\server\Civil\Projects\2175023 Taco Bell - ABQ - Snow Vista\DWG\PRODUCTION\2175023 GRADING.dwg

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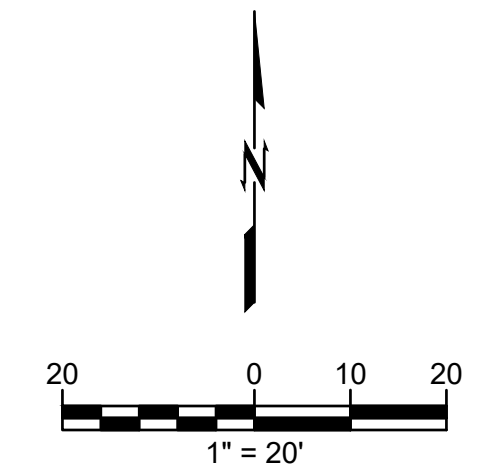


SITE PLAN

TACO BELL - SNOW VISTA BOULEVARD

ALBUQUERQUE, NM

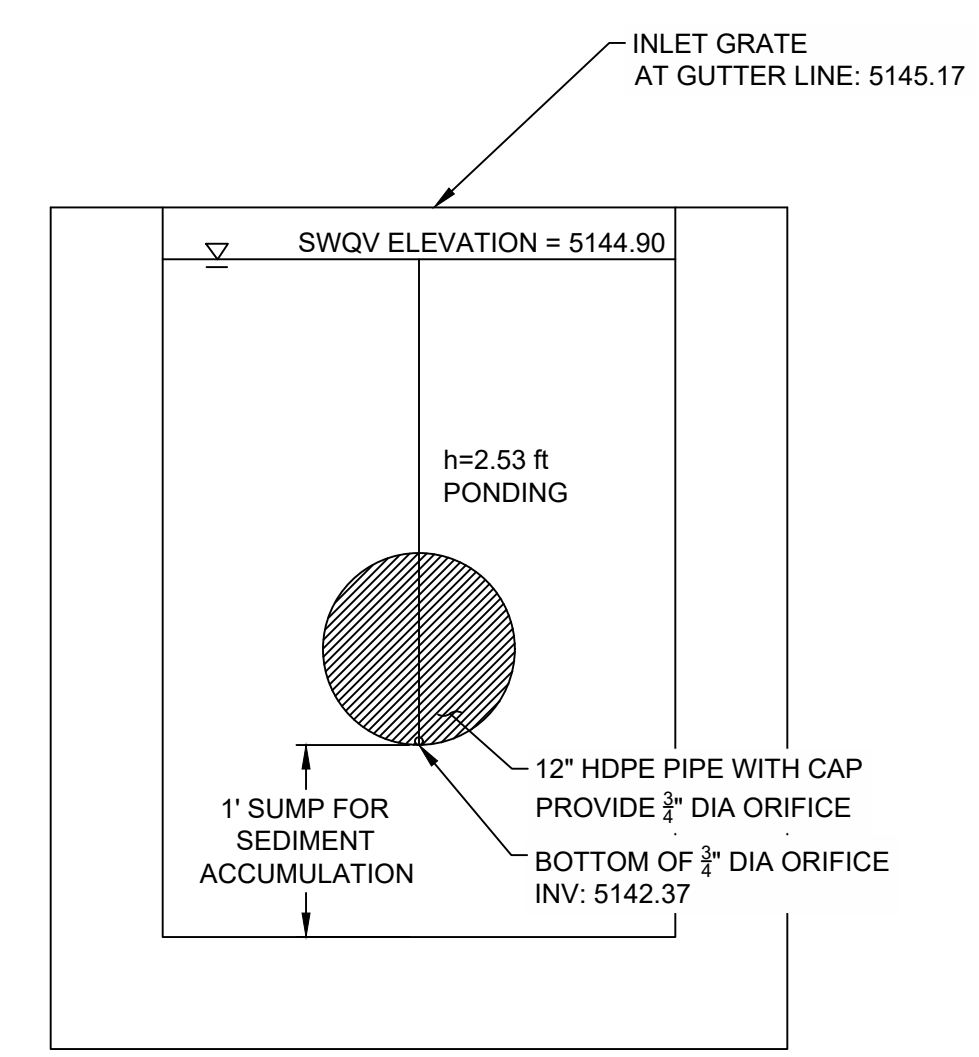
LOT 1D. TOWN OF ASTRICO GRANT, PROJECTED SECTION 33, TOWNSHIP 10 NORTH, RANGE 2 EAST, N.M.P.M.
 ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DECEMBER 2021



VICINITY MAP
 1"=400'

100-YR STORM NOTE:
 POND 1, POND 2, AND POND 3 CONTAIN A STANDPIPE TO DISCHARGE THE 100-YR STORM INTO THE PRIVATE STORM INFRASTRUCTURE WITHOUT DETENTION.

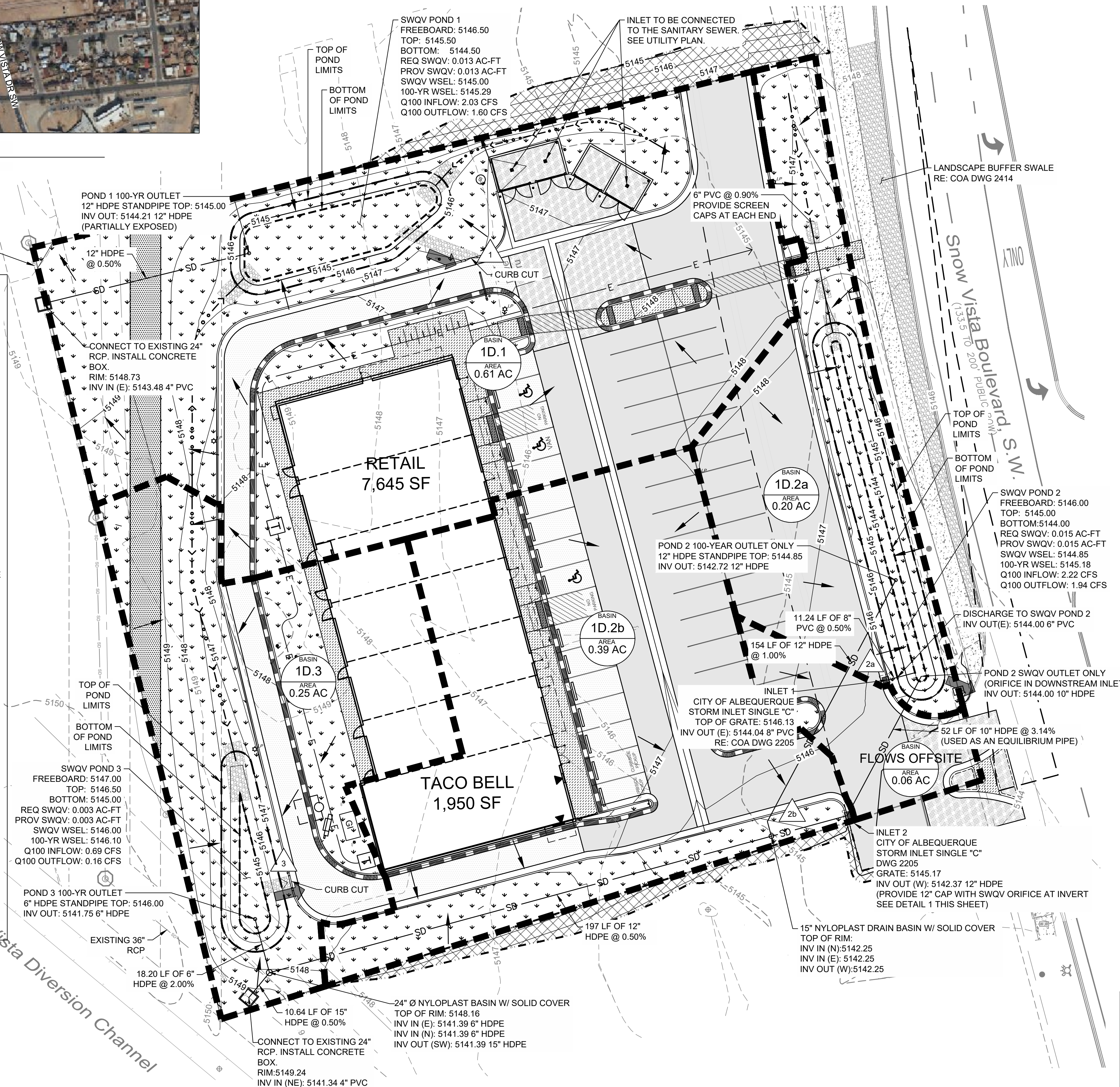
EMERGENCY OVERFLOW NOTE:
 EMERGENCY OVERFLOWS FROM THE PONDS WILL OCCUR IF THE 100-YR OUTLET PIPE IS CLOGGED OR FOR A STORM EXCEEDING THE 100-YR EVENT. SEE EMERGENCY OVERFLOW POINTS ON THIS PLAN.



1 - INLET 2 SWQV ORIFICE DETAIL
 SCALE: N.T.S.

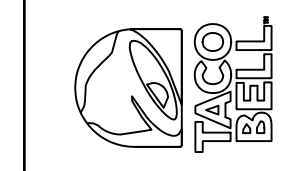
LEGEND

- STANDARD DUTY ASPHALT PAVEMENT
- REINFORCED CONCRETE PAD
- CONCRETE SIDEWALK
- RIPRAP
- EXISTING CONCRETE SIDEWALK
- TRANSITIONAL GRADING SHOWN FOR GENERAL REFERENCE BASED ON ANTICIPATED OFF-SITE GRADING BY OTHERS. CONTRACTOR TO MATCH EXISTING GRADES AT PROPERTY LINE - COORDINATE WITH ADJACENT SITE DEVELOPERS. NO OFF-SITE WORK TO BE PERFORMED BY CONTRACTOR UNDER THIS PROJECT/CONTRACT.
- 6" DEPRESSED CURB AND GUTTER
- STORM DRAIN
- DRAINAGE BASIN DELINEATION
- DRAINAGE FLOW PATH
- STORM BASIN W/ LID
- CITY OF ALBUQUERQUE DRAINAGE STORM INLET TYPE "C" DWG. 2205
- SANITARY SEWER CLEANOUT
- BASIN ID
 AREA # AC
- DRAINAGE DESIGN POINT
- EMERGENCY OVERFLOW POINT



TOTAL DISTURBED AREA	1.58 ACRES
PROJECT SITE AREA	1.51 ACRES
EXISTING IMPERVIOUS AREA	0.01 ACRES
EXISTING PERVIOUS AREA	1.50 ACRES
PROPOSED IMPERVIOUS AREA	0.92 ACRES
PROPOSED PERVIOUS AREA	0.59 ACRES

TACO BELL
98TH & SAGE
 1115 SNOW VISTA BLVD SW
 ALBUQUERQUE, NM



DATE	DESCRIPTION	REV

DATE 12/12/2025
 PROJECT NO. 2175023
 SHEET NAME

DRAINAGE PLAN
 SHEET NO.
C501

ORIG SIZE: 22"x34"
 PLOT: 12/12/2025 1:56:02 PM
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SITE PLAN

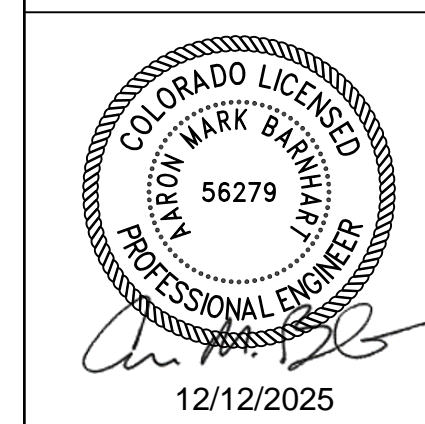
TACO BELL - SNOW VISTA BOULEVARD

ALBUQUERQUE, NM

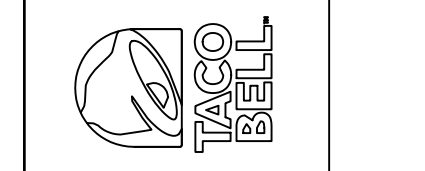
LOT 1D. TOWN OF ASTRICO GRANT, PROJECTED SECTION 33, TOWNSHIP 10 NORTH, RANGE 2 EAST, N.M.P.M.

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DECEMBER 2021

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TACO BELL
98TH & SAGE
1115 SNOW VISTA BLVD SW
ALBUQUERQUE, NM



DATE

DESCRIPTION

REV

DATE 12/12/2025

PROJECT NO. 2175023

SHEET NAME

DRAINAGE
CALCULATIONS

SHEET NO.

C502

Taco Bell - Snow Vista Blvd
2175023
Calculated by: JEC
Checked by:

Taco Bell - Snow Vista Blvd Percent Imperviousness Calculations

Hydrologic Soil Group: A

	Pervious(sf)	% Total Area	Impervious(sf)	Impervious (ac)	% Total Area	Total (sf)	Total (ac)
Existing	65,173	99.3	446	0.01	0.7	65,619	1.51
Proposed	25,547	38.9	40,072	0.92	61.1	65,619	1.51
Change	-39,626	-60	39,626	0.91	60.4	0	0.00

BASIN	Total (sf)	Total (ac)	Area (sf)	Area (ac)	%Imp*	Comp %Imp	% TOTAL AREA
OVERALL SITE	65619	1.51					
Landscape	25,547	0.59			7%	4%	39%
Paved	30,475	0.70			90%	63%	46%
Roof	9,597	0.22			90%	20%	15%
Total	65,619	1.51				Site Imp. 58%	

BASIN	Total (sf)	Total (ac)	Area (sf)	Area (ac)	%Imp*	Comp %Imp	% TOTAL AREA
1D.1	26457	0.61					
Landscape	10,733	0.25			7%	2%	41%
Paved	12,445	0.29			90%	26%	47%
Roof	3,279	0.08			90%	7%	12%
Total	26,457	0.61				Site Imp. 56%	

BASIN	Total (sf)	Total (ac)	Area (sf)	Area (ac)	%Imp*	Comp %Imp	% TOTAL AREA
1D.2a	8531	0.20					
Landscape	4,488	0.10			7%	1%	53%
Paved	4,043	0.09			90%	8%	47%
Roof	0	0.00			90%	0%	0%
Total	8,531	0.20				Site Imp. 46%	

Note: flows generated by an additional 1039 SF of offsite landscape drain to this basin

BASIN	Total (sf)	Total (ac)	Area (sf)	Area (ac)	%Imp*	Comp %Imp	% TOTAL AREA
1D.2b	17133	0.39					
Landscape	2,995	0.07			7%	0%	35%
Paved	10,010	0.23			90%	21%	117%
Roof	4,128	0.09			90%	9%	48%
Total	17,133	0.39				Site Imp. 75%	

BASIN	Total (sf)	Total (ac)	Area (sf)	Area (ac)	%Imp*	Comp %Imp	% TOTAL AREA
1D.3	11076	0.25					
Landscape	7,246	0.17			7%	1%	65%
Paved	1,641	0.04			90%	3%	15%
Roof	2,190	0.05			90%	5%	20%
Total	11,076	0.25				Site Imp. 36%	

* Percent Treatment D (impervious) values are obtained from Table 6.2.10 of the 2020 DPM.

Taco Bell - Snow Vista Blvd
2175023
Calculated by: JEC
Checked by:

Taco Bell - Snow Vista: Runoff Calculations

Formulas and Values

Excess Precipitation (E) (Table 6.2.13)

Zone 1	10-Year (in)	100-Year (in)
E ₁	0.11	0.55
E ₂	0.26	0.73
E ₃	0.43	0.95
E ₄	1.43	2.24

Peak Discharge (cfs/acre) (Table 6.2.14)

Zone 1	10-yr	100-yr
Q ₁	0.30	1.54
Q ₂	0.81	2.16
Q ₃	1.46	2.87
Q ₄	2.57	4.12

Weighted E = E₁*A₁ + E₂*A₂ + E₃*A₃ + E₄*A₄ / (Total Area) Equation 6.1

V₁₀₀ = Weighted E * (Total Area) Equation 6.2

Q₁₀ = Q₁*A₁

Where x = Treatment areas (A - D)

Total Q₁₀ = Sum (Q₁₀*A_x) Equation 6.6

Basin	Area (SF)	Area (Acres)	Treatment				10-Year		100-Year			
			A	B	C	D	Weighted E (in)	Total Q ₁₀ (cfs)	Weighted E (in)	Total Q ₁₀₀ (cfs)		
EX-1	65,619	1.51	0%	0%	99%	1%	0.65	0.08	2.21	1.44	0.18	4.34

Basin	Area (SF)	Area (Acres)	Treatment				10-Year		100-Year			
			A	B	C	D	Weighted E (in)	Total Q ₁₀ (cfs)	Weighted E (in)	Total Q ₁₀₀ (cfs)		
OVERALL SITE	65,619	1.51	0%	0%	39%	0%	0.92	1.03	1.13	1.80	0.23	5.06
1D.1	26,457	0.61	0%	0%	41%	0%	0.91	0.36	0.91	1.13	0.19	2.02
1D.2a	8,531	0.20	0%	0%	53%	0%	0.70	0.09	0.32	1.14	0.14	0.60
1D.2b	17,133	0.39	0%	0%	17%	0%	0.83	0.32	1.20	0.06	0.89	1.90
1D.3	11,076	0.25	0%	0%	65%	0%	0.54	0.07	0.36	0.90	0.11	0.72

Basin	Area (SF)	Area (Acres)	Treatment				10-Year		100-Year			
			A	B	C	D	Weighted E (in)	Total Q ₁₀ (cfs)	Weighted E (in)	Total Q ₁₀₀ (cfs)		
OVERALL SITE	65,619	1.51	0%	0%	39%	0%	0.92	1.03	1.13	1.80	0.23	5.06
1D.1	26,457	0.61	0%	0%	41%	0%	0.91	0.36	0.91	1.13	0.19	2.02
1D.2a	8,531	0.20	0%	0%	53%	0%	0.70	0.09	0.32	1.14	0.14	0.60
1D.2b	17,133	0.39	0%	0%	17%	0%	0.83	0.32	1.20	0.06	0.89	1.90
1D.3	11,076	0.25	0%	0%	65%	0%	0.54	0.07	0.36	0.90	0.11	0.72

Taco Bell - Snow Vista Blvd
2175023
Calculated by: JEC
Checked by:

Taco Bell - Snow Vista Blvd Stormwater Quality Volume Calculations

Basin	Area (SF)	Area (Acres)	% Imp	Pervious(sf)	Impervious(sf)	Impervious (ac)	Total Area (sf)	Total Area (ac)
1D.1	26,457	0.61	56%	10,733	15,725	0.36	26,457	0.61
1D.2a	8,531	0.20	46%	4,488	4,043	0.09	8,531	0.20
1D.2b	17,133	0.39	75%	2,995	14,138	0.32	17,133	0.39
1D.3	11,076	0.25	36%	7,246	3,831	0.09	11,076	0.25
Overall Site	65,619	1.51	58%	25,547	40,072	0.92	65,619	1.51

Basin	WQCV (in)	Imp. Area (acres)	Required SWQV	
			V ₁₀₀ (acre-ft)	V ₁₀ (ft ³)
1D.1	0.42	0.36	0.013	590.36
1D.2a	0.42	0.09	0.003	141.50
1D.2b	0.42	0.32	0.011	494.82
1D.3	0.42	0.09	0.003	134.07
Overall Site	0.42	0.92	0.032	1402.51

Required SWQV = (WQCV / 12) * Imp. Area

Pond	Contributing Basins	Required SWQV		Provided SWQV	
		V ₁₀₀ (acre-ft)	V ₁₀ (ft ³)	V ₁₀₀ (acre-ft)	V ₁₀ (ft ³)
Pond 1	1D.1	0.013	590.36	0.041	1785.96
Pond 2	1D.2a, 1D.2b	0.015	636.32	0.021	914.76
Pond 3	1D.3	0.003	134.07	0.021	914.76
Overall Site	1D.1, 1D.2a, 1D.2b, 1D.3	0.032	1402.51	0.083	3615.48

TB Snow Vista Type II 6-hr Rainfall=2.17"
Prepared by Wallace Engineering
HydroCAD® 10.20-7a s/n 10086 © 2025 HydroCAD Software Solutions LLC Printed 8/11/2025

Summary for Pond 1P: Pond 1

Inflow Area = 0.607 ac, 0.00% Impervious, Inflow Depth = 1.24"
Inflow = 2.03 cfs @ 2.94 hrs, Volume = 0.063 af
Outflow = 1.60 cfs @ 3.00 hrs, Volume = 0.050 af, Atten= 21%, Lag= 3.2 min
Primary = 1.60 cfs @ 3.00 hrs, Volume = 0.050 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 5,145.29' @ 3.00 hrs Surf.Area= 1,429 sf Storage= 963 cf

Plug-Flow detention time= 40.1 min calculated for 0.050 af (79% of inflow)
Center-of-Mass det. time= 17.3 min (218.8 - 201.5)

Volume	Invert	Avail. Storage	Storage Description
#1	5,144.50'	1,276 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf. Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
5,144.50	1,028	0	0
5,145.00	1,264	573	573
5,145.50	1,549	703	1,276

Device	Routing	Invert	Outlet Devices
#1	Primary	5,145.00'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.57 cfs @ 3.00 hrs HW=5,145.29' (Free Discharge)
1=Orifice/Grate (Weir Controls 1.57 cfs @ 1.75 fps)

TB Snow Vista Type II 6-hr Rainfall=2.17"
Prepared by Wallace Engineering
HydroCAD® 10.20-7a s/n 10086 © 2025 HydroCAD Software Solutions LLC Printed 8/11/2025

Summary for Pond 2P: Pond 2

Inflow Area = 0.589 ac, 0.00% Impervious, Inflow Depth = 1.47"
Inflow = 2.22 cfs @ 2.94 hrs, Volume = 0.072 af
Outflow = 1.94 cfs @ 2.98 hrs, Volume = 0.071 af, Atten= 13%, Lag= 2.1 min
Primary = 1.94 cfs @ 2.98 hrs, Volume = 0.071 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 5,145.18' @ 2.98 hrs Surf.Area= 1,245 sf Storage= 945 cf

Plug-Flow detention time= 120.9 min calculated for 0.071 af (98% of inflow)
Center-of-Mass det. time= 120.3 min (316.9 - 196.5)

Volume	Invert	Avail. Storage	Storage Description
#1	5,144.00'	2,238 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf. Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
5,144.00	374	0	0
5,144.50	732	277	277
5,145.00	1,103	459	735
5,146.00	1,902	1,503	2,238

Device	Routing	Invert	Outlet Devices
#1	Primary	5,144.85'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	5,144.00'	0.7" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.87 cfs @ 2.98 hrs HW=5,145.17' (Free Discharge)
1=Orifice/Grate (Weir Controls 1.85 cfs @ 1.85 fps)
2=Orifice/Grate (Orifice Controls 0.01 cfs @ 5.14 fps)

TB Snow Vista Type II 6-hr Rainfall=2.17"
Prepared by Wallace Engineering
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Summary for Pond 3P: Pond 3

Inflow Area = 0.254 ac, 0.00% Impervious, Inflow Depth = 0.98"
Inflow = 0.69 cfs @ 2.95 hrs, Volume = 0.021 af
Outflow = 0.16 cfs @ 3.09 hrs, Volume = 0.011 af, Atten= 78%, Lag= 8.7 min
Primary = 0.16 cfs @ 3.09 hrs, Volume = 0.011 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 5,146.10' @ 3.09 hrs Surf.Area= 659 sf Storage= 481 cf

Plug-Flow detention time= 70.8 min calculated for 0.011 af (53% of inflow)
Center-of-Mass det. time= 38.8 min (244.9 - 206.1)

Volume	Invert	Avail. Storage	Storage Description
#1	5,145.00'	792 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf. Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
5,145.00	249	0	0
5,145.50	413	166	166
5,146.00	605	255	420
5,146.50	881	372	792

Device	Routing	Invert	Outlet Devices
#1	Primary	5,146.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.15 cfs @ 3.09 hrs HW=5,146.10' (Free Discharge)
1=Orifice/Grate (Weir Controls 0.15 cfs @ 1.01 fps)

ORIG SIZE: 22"x34" PLOT: 12/12/2025 1:56:03 PM I:\server\civil\Projects\2175023 Taco Bell - ABQ - Snow Vista\DWG\PRODUCTION\2175023 Drainage Map.dwg