

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: ____

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title:		Building Permit #:	City Drainage #:	
DRB#:	EPC#:		k Order#:	
Legal Description:				
City Address:				
Engineering Firm:		Con	tact:	
Address:				
Phone#:	Fax#:	E-m	ail:	
Owner:		Con	tact:	
Address:				
Phone#:	Fax#:	E-m	nail:	
Architect:		Con	itact:	
Address:				
Phone#:	Fax#:	E-m	ail:	
Other Contact:		Con	itact:	
Address:				
Phone#:	Fax#:	E-m	ail:	
DEPARTMENT: HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CO	NTROL	CHECK TYPE OF APP. BUILDING PERMI CERTIFICATE OF		
	IVIROL			
TYPE OF SUBMITTAL:	CATION	PRELIMINARY P	LAT APPROVAL	
ENGINEER/ ARCHITECT CERTIFI	CATION		SUB'D APPROVAL	
CONCEPTUAL G & D PLAN			BLDG. PERMIT APPROVAL	
GRADING PLAN		FINAL PLAT APP		
GRADING PLAN DRAINAGE MASTER PLAN			SIA/ RELEASE OF FINANCIAL GUARANTEE FOUNDATION PERMIT APPROVAL	
DRAINAGE MASTER FLAN DRAINAGE REPORT			GRADING PERMIT APPROVAL	
CLOMR/LOMR			SO-19 APPROVAL	
		PAVING PERMIT		
TRAFFIC CIRCULATION LAYOU	T (TCL)	GRADING/ PAD (CERTIFICATION	
TRAFFIC IMPACT STUDY (TIS)		WORK ORDER APP	PROVAL	
EROSION & SEDIMENT CONTRO	L PLAN (ESC)	CLOMR/LOMR		
OTHER (SPECIFY)		PRE-DESIGN MEET	ING	
OTHER (SPECIFY)		PRE-DESIGN MEET OTHER (SPECIFY		
OTHER (SPECIFY) IS THIS A RESUBMITTAL?: Yes			TING ()	
	No	OTHER (SPECIFY	<u> </u>	

PORTION OF PARCEL I-A, TRACT BB MONARCH VILLAGE CONT 0.5785 ACRES CITY OF ALBUQUERQUE, COUNTY OF BERNALILLO, STATE OF NEW MEXICO

SITE CONSTRUCTION PLAN





- LANDSCAPE



the project as described on the approved plan(s) and in support of a request for a Certificate of Occupancy. Upon review it has been found that the 2-foot wide concrete pan on the east side of the building conveys runoff entirely to the south rather than portions to the south and portions to the north. Portions of the pan are also constructed with a flat slope. The finished grade elevations of and near the trash enclosure suggest portions of the adjacent drive aisle may contribute minor runoff to

I have reviewed a copy of the Grading As-Built, dated October 5,

as-built information on the red-lined as-built plan.

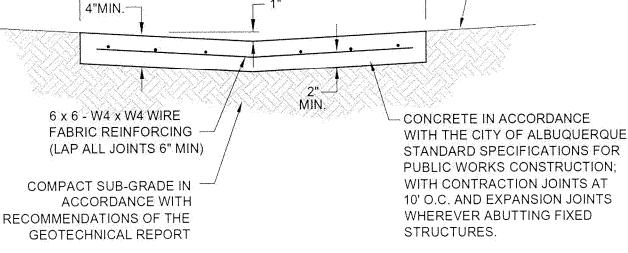
2015, prepared and stamped by Thomas D. Johnston, New Mexico Registered Land Surveyor No. 14269, and provided the same

The review is intended only to determine if the improvements as

described solely by the as-built plan are in substantial compliance with the overall design intent of the grading and drainage aspects of

the enclosure. The pond elevations indicate a lower pond bottom and a lower pond weir than described on the approved plans; however, calculations indicate provision of the design volume. In addition and as approved by the city, the ATM that previously existed at the southeast corner of the site has been removed. These and other deviations from the WITH THE CITY OF ALBUQUERQUE grading and drainage design described on the approved plan(s) STANDARD SPECIFICATIONS FOR represent discrepancies which are minor in nature and/or should impact maintenance of the property rather than the overall drainage

> Based on the review described herein, of the information listed herein, and of this information only; it appears the improvements associated with the grading and drainage aspects of the project have been graded and will drain in substantial compliance with the overall design intent of the approved plan(s).





AT CORNER

AT CONC. PAN

COMPACT SUBGRADE IN ACCORDANCE WITH THE

RECOMMENDATIONS OF THE GEOTECHNICAL REPORT

CURB OPENING

NOT TO SCALE

12.0'

TRANSVERSE SLOPE -

SHALL MATCH THAT OF

ADJACENT PAVEMENT

6 x 6 - W4 x W4 WIRE

FABRIC REINFORCING -

(LAP ALL JOINTS 6" MIN)

REFER TO PLAN

INTEGRAL CURB

NOT TO SCALE

1-1/2" R ----

6" CURB &

6" CURB & GUTTER -

CATCH CURB



_ TAPER CURB

TAPER CURB

6" TO 0" (TYP)

6" TO 0"

6" CURB &

FINISHED GRADE

AT BACK OF CURB

GUTTER

- CONC. PAN

1'-1/2"

SPILL CURB

1"/FOOT



303.794.4727 ph www.SterlingDesignAssociates.com

PREPARED UNDER THE DIRECT SUPERVISION OF JAY M. NEWELL, P.E. NEW MEXICO REGISTRATION NO. 21372 FOR & ON BEHALF OF STERLING DESIGN ASSOCIATES, LLC



STERLING DESIGN ASSOCIATES, LLC

NO.: 1 DATE: 03/12/15	BY: JLO
DESCRIPTION: CITY COMMENTS	
NO.: 2 DATE: 10/13/15	BY:
DESCRIPTION: AS SUILT	
NO.; 3 DATE:	BY:
DESCRIPTION:	
NO.: 4 DATE:	BY:
DESCRIPTION:	
NO.: 5 DATE:	BY:
DESCRIPTION:	
NO.: 6 DATE:	BY:

DATE: 09/23/14	SCALE:
PROJECT MANAGER: JLO	PROJECT NO.:
DRAWN BY:	DRAWING FILE



63433-001

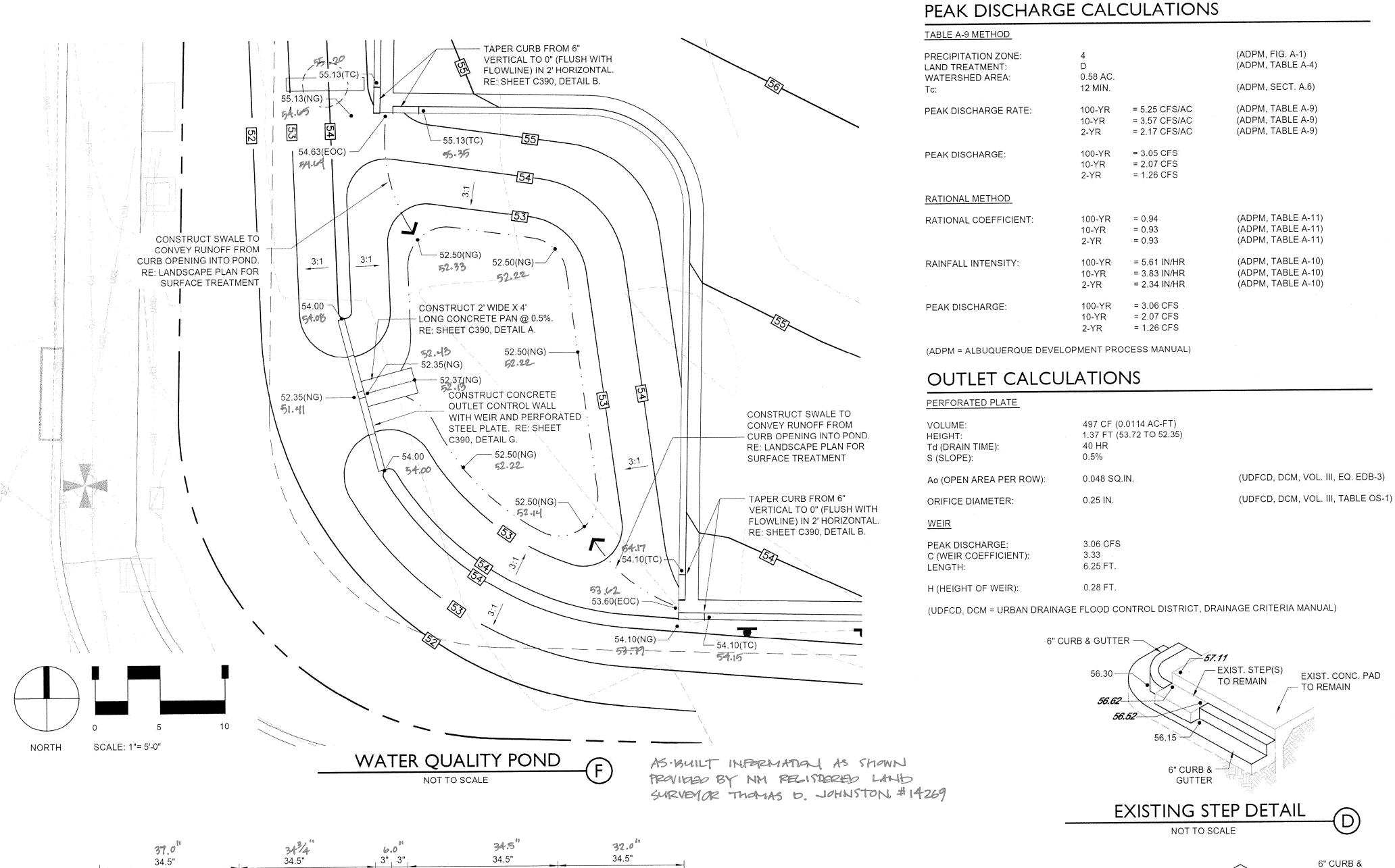
STARBUCKS DRIVE-THRU **700 JUAN TABO NE** ALBUQUERQUE, NM 87123

STARBUCKS COFFEE COMPANY 2401 UTAH AVENUE SOUTH SEATTLE, WA 98134 (206) 318-1575

SHEET TITLE:

GRADING DETAILS AS · BUILT

SHEET NUMBER. C390



3.36" 3 3/2"

- PERFORATED PLATE

- 1/4" THICK PERFORATED

STAINLESS STEEL OR

ALUMINUM PLATE

OUTLET CONTROL WALL

NOT TO SCALE

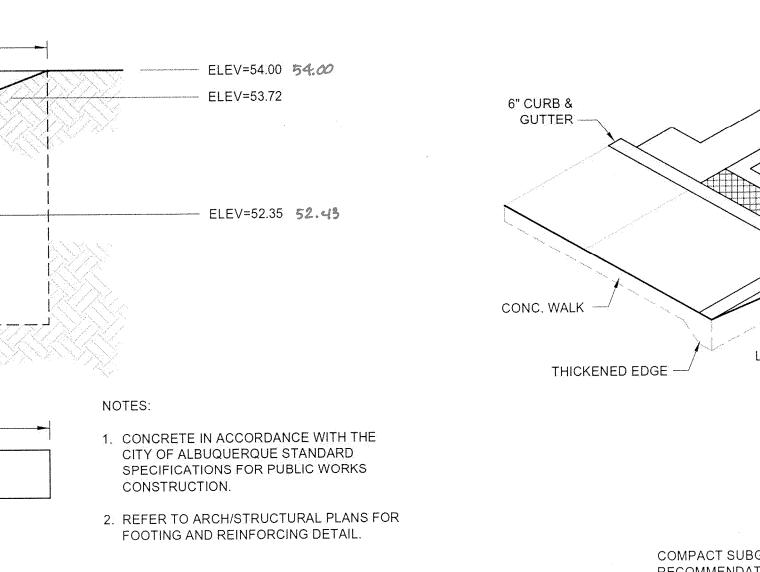
BOLT PLATE TO CONC. W/

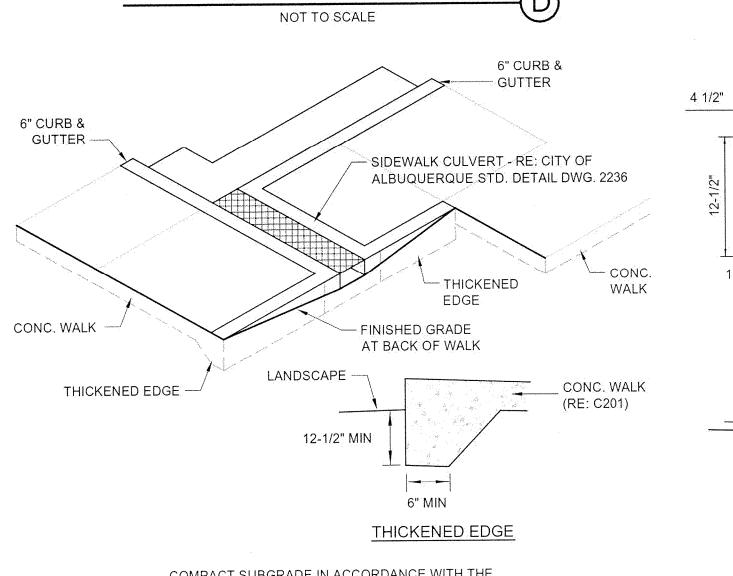
STAINLESS STEEL BOLTS (TYP)

1/4" DIA. (TYP) -

COMPACT SUBGRADE IN ACCORDANCE WITH THE

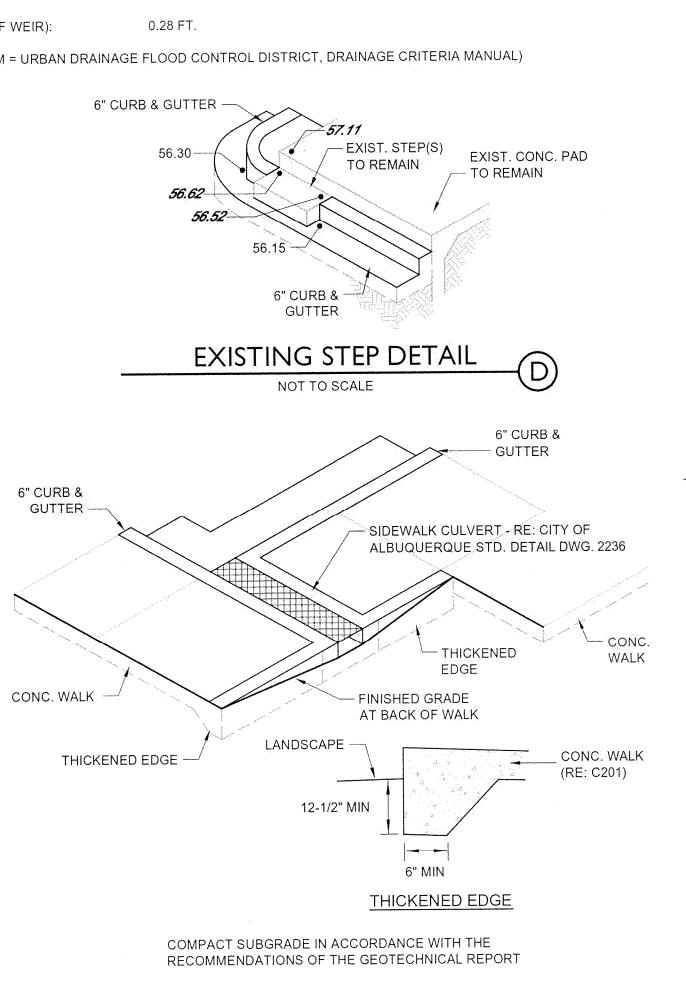
RECOMMENDATIONS OF THE GEOTECHNICAL REPORT





SIDEWALK CULVERT NOT TO SCALE

PRIVATE CURB & GUTTER



PORTION OF PARCEL 1-A, TRACT BB
MONARCH VILLAGE CONT 0.5785 ACRES
CITY OF ALBUQUERQUE, COUNTY OF BERNALILLO, STATE OF NEW MEXICO

GENERAL NOTES

- 1. REFER TO SHEET C100 FOR ADDITIONAL PROJECT GENERAL NOTES.
- 2. IF, DURING THE OVERLOT GRADING PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER IMMEDIATELY FOR RECOMMENDATIONS.
- 3. ALL EARTHWORK, GRADING, OVERLOT GRADING, BACKFILLING, FILLING, EXCAVATION, COMPACTION, PAVEMENT, AND FLATWORK CONSTRUCTION WILL BE IN ACCORDANCE WITH THE RECOMMENDATIONS FROM THE GEOTECHNICAL INVESTIGATION PREPARED SPECIFICALLY FOR THIS SITE.
- 4. ALL CONCRETE PAVEMENT, CONCRETE FLATWORK, CONCRETE STRUCTURES AND CONCRETE UTILITIES SHALL BE IN ACCORDANCE WITH THE MATERIAL RECOMMENDATIONS FROM THE GEOTECHNICAL INVESTIGATION PREPARED SPECIFICALLY FOR THIS SITE AND THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 5. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION PREPARED SPECIFICALLY FOR THIS SITE.
- 6. SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SPOT ELEVATIONS WHICH DO NOT APPEAR TO BE CONSISTENT WITH THE CONTOURS AND SLOPES. SPOT ELEVATIONS AND SPECIFIC PROFILE DESIGN SHALL BE USED FOR SETTING ELEVATIONS OF CURB AND GUTTER AND UTILITIES
- 7. SPOT ELEVATIONS REPRESENT FLOWLINE (BOTTOM FACE OF CURB) WHERE SHOWN AT CURB AND GUTTER UNLESS OTHERWISE NOTED.
- 8. CONTOURS SHOWN ARE FOR FINISHED PAVING, SIDEWALK, SLAB, OR GROUND. ADJUSTMENT TO SUBGRADE IS THE CONTRACTOR'S RESPONSIBILITY.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN ESTIMATE OF EARTHWORK QUANTITIES.
- 10. REFER TO SITE PLAN FOR EXTENT OF PAVEMENT AND PAVEMENT SECTIONS.
- 11. GRADES WITHIN ASPHALT PAVING AREAS SHALL BE CONSTRUCTED TO WITHIN 0.10 FEET OF THE DESIGN GRADE. HOWEVER, THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL PAVEMENT AREAS AND ALONG CURBS. ALL CURBS SHALL BE BUILT IN ACCORDANCE WITH THE PLAN. CURBS OR PAVEMENT AREAS WHICH DO NOT PROVIDE PROPER DRAINAGE MUST BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- 12. THE CONTRACTOR SHALL HAVE FORMS CHECKED BY A SURVEYOR FOR CURB AND GUTTER ADJACENT TO EXISTING ASPHALT OR CONCRETE. THE CROSS SLOPE SHALL NOT BE LESS THAN 2% OR GREATER THAN 4% FROM THE EXISTING SAWCUT LINE TO THE PROPOSED LIP OF GUTTER. DO NOT PLACE CONCRETE IN FORMS THAT HAVE BEEN CHECKED TO BE OR APPEAR IN ANY WAY INCORRECT. CONTACT THE ENGINEER IMMEDIATELY IF A PROBLEM SHOULD ARISE
- 13. THE CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- 14. THE CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL LANDSCAPED AND PAVED
- 15. ALL DISTURBED AREAS THAT ARE NOT DESIGNATED TO BE PAVED SHALL BE LANDSCAPED OR SEEDED, ACCORDING TO THE LANDSCAPE PLAN.
- 16. EXISTING DRAINAGE STRUCTURES SHALL BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- 17. IF ANY EXISTING STRUCTURES, SIDEWALK, AND/OR CURB AND GUTTER MODIFIED OR TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER PRIOR TO PROJECT
- 18. ALL GRATES, MANHOLE RIMS, VALVE BOXES, VALVE COVERS, CLEANOUTS, AND VAULT OR BOX COVERS SHALL BE ADJUSTED TO "AS CONSTRUCTED" FINISHED GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.
- 19. NO PROPOSED SLOPE IN LANDSCAPED AREAS OR OPEN SPACE SHALL EXCEED THREE (3) HORIZONTAL FEET TO ONE (1) VERTICAL FOOT, OR AS OTHERWISE SPECIFIED BY LOCAL CRITERIA.
- 20. THE CONTRACTOR SHALL PROTECT THE PROJECT BENCHMARK THROUGHOUT CONSTRUCTION AND SET ADDITIONAL PROJECT BENCHMARKS AS NECESSARY TO MAINTAIN VERTICAL CONTROL THROUGHOUT THE DURATION OF THE
- 21. THE CONTRACTOR SHALL FILL AND COMPACT BASEMENTS, CESSPOOLS, AND OTHER LARGE EXCAVATED AREAS WITH CLEAN FILL SUITABLE TO THE OWNER, AND IN ACCORDANCE WITH RECOMMENDATIONS OBTAINED FROM THE GEOTECHNICAL REPORT OR GEOTECHNICAL ENGINEER AND GRADE TO MATCH EXISTING OR PROPOSED FINISH GRADE; OR CONFIRM SUCH WORK HAS BEEN PERFORMED PRIOR TO CONSTRUCTION.

GRADING NARRATIVE

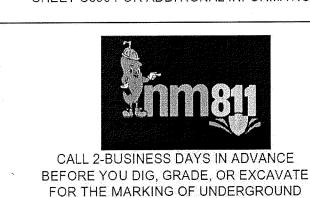
EXISTING SITE TOPOGRAPHY GENERALLY SLOPES AT APPROXIMATELY 6% FROM THE EAST TO THE WEST ACROSS THE EXISTING PAVED PARKING LOT. EXISTING PERIMETER LANDSCAPE AREAS ARE STEEPER.

PROPOSED GRADING IMPROVEMENTS INCLUDE PROVIDING A RELATIVELY FLAT PAD FOR THE PROPOSED BUILDING, PEDESTRIAN, AND ASSOCIATED ADA ACCESS AREAS. PROPOSED PERIMETER DRIVE AND PARKING AREAS INCLUDE SLOPES OF 1% TO 6%. PERIMETER LANDSCAPE AREAS THEREFORE INCLUDE SLOPES OF UP TO 3:1. A PROPOSED RETAINING WALL (MAXIMUM HEIGHT EQUALS APPROXIMATELY 4.5-FEET) IS REQUIRED TO ACCOMMODATE THE PROPOSED GRADES IN THE NORTHEAST CORNER OF THE SITE. CUT AND FILL DEPTHS ARE BOTH PROPOSED TO BE APPROXIMATELY 3-FEET MAXIMUM. THE SITE WILL GENERALLY CONVEY STORMWATER RUNOFF IN CONFORMANCE WITH THE EXISTING DRAINAGE SYSTEM. RUNOFF WILL BE CONVEYED AS SHEET FLOW ACROSS THE PAVED AREAS TO LOW POINTS ALONG THE PERIMETER CURB AND GUTTER. THREE CURB OPENINGS WILL DIRECT RUNOFF TO AND ACROSS THE PERIMETER LANDSCAPE AREAS BEFORE DISCHARGING AS SURFACE FLOW TO THE PUBLIC STREET STORM SEWER SYSTEM.

THE REQUIRED FIRST FLUSH VOLUME WILL BE PROVIDED IN AN ON-SITE POND DOWNSTREAM OF TWO OF THE PROPOSED CURB OPENINGS AND WILL DISCHARGE ACROSS THE PERIMETER LANDSCAPE AREAS AS SURFACE FLOW TO THE PUBLIC STREET STORM SEWER SYSTEM.

A METAL PLATE PERFORATED WITH 0.25" DIA. HOLES AT 4" ON CENTER VERTICALLY WILL CONTROL THE RELEASE OF THE FIRST FLUSH VOLUME TO DISCHARGE OVER 40 HOURS. RUNOFF IN EXCESS OF THE FIRST FLUSH WILL DISCHARGE THROUGH A CONCRETE WEIR OPENING.

REFER TO THE DRAINAGE SUMMARY ON THIS SHEET, AND THE PEAK DISCHARGE AND OUTLET CALCULATIONS ON SHEET C390 FOR ADDITIONAL INFORMATION.

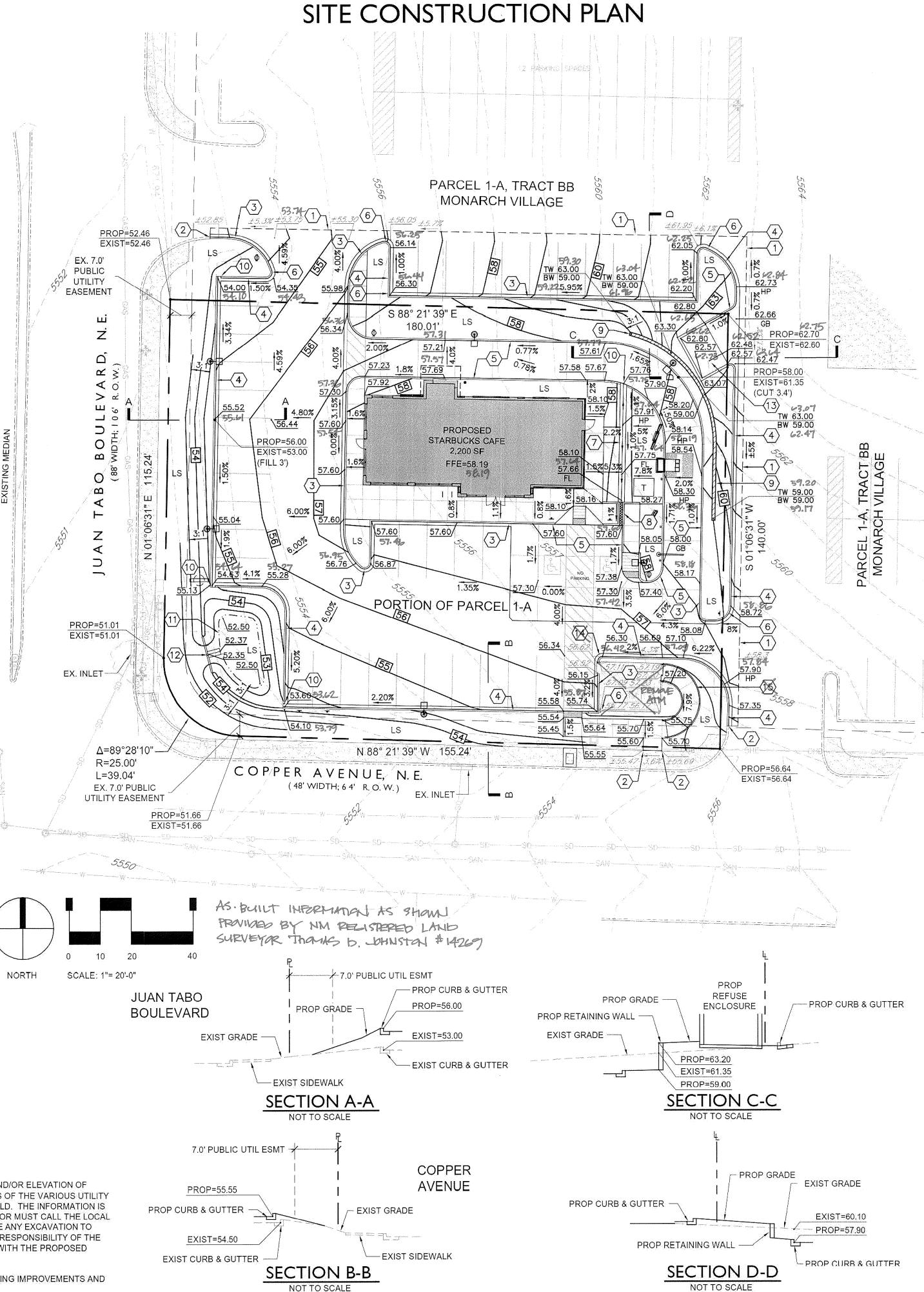


MEMBER UTILITIES.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, 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 (1-800-245-4545) AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES AND SHALL REPAIR ANY DAMAGE AT HIS EXPENSE.





CONSTRUCTION NOTES

- 1) SAWCUT AND/OR REMOVE EXISTING PAVEMENT, CONCRETE, CURB RAMPS, AND/OR CURB & GUTTER TO NEAREST JOINT, OR TO LIMITS AS SHOWN
- 2 CONSTRUCT IMPROVEMENTS TO MATCH LINE AND GRADE OF EXISTING PAVEMENT, WALK, AND/OR CURB & GUTTER.
- (3) CONSTRUCT 6-INCH CONCRETE CURB & GUTTER WITH 1-FOOT SPILL PAN. RE: SHEET C390, DETAIL C.
- 4 CONSTRUCT 6-INCH CONCRETE CURB & GUTTER WITH 1-FOOT CATCH PAN. RE: SHEET C390, DETAIL C.
- 5 CONSTRUCT 6-INCH CONCRETE INTEGRAL CURB. RE: SHEET C390, DETAIL C
- 6 CONSTRUCT TRANSITION FROM CATCH TO SPILL PAN. FIELD VERIFY THAT RUNOFF WILL COMPLETELY EXIT PAN ONTO ADJACENT PAVEMENT.
- 7 CONSTRUCT 2-FOOT WIDE CONCRETE PAN AS SHOWN. RE: SHEET C390, DETAIL A.
- (8) CONSTRUCT 1-FOOT WIDE (SINGLE) SIDEWALK CULVERT WITH STEEL PLATE TOP AND WITHOUT V-SHAPED INVERT. DEPTH OF CULVERT OPENING SHALL BE CONSISTENT 6" FROM TOP OF TOP PLATE TO INVERT. FULL WIDTH OF CULVERT (1') SHALL SLOPE CONSISTENTLY WITH ADJACENT SIDEWALK CROSS SLOPE FROM BACK OF WALK TO FLOWLINE OF CURB & GUTTER. RE: CITY OF ALBUQUERQUE STANDARD DETAIL DWG. 2236 AND SHEET C390, DETAIL E FOR ADDITIONAL DETAIL.
- 9 CONSTRUCT RETAINING WALL. RE: ARCH/STRUCTURAL PLANS.
- (10) CONSTRUCT 1.0' CURB OPENING. RE: SHEET C390, DETAIL B.
- (11) CONSTRUCT WATER QUALITY POND. RE: SHEET C390, DETAIL F.
- (12) CONSTRUCT CONCRETE OUTLET CONTROL WALL WITH WEIR AND PERFORATED STEEL PLATE. RE: SHEET C390, DETAIL G.
- CONSTRUCT REFUSE ENCLOSURE DRAIN AT LOW POINT. RE: SHEET C501.
- EXISTING CONCRETE STEPS TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION. RE: SHEET C390, DETAIL D.
- CONSTRUCT RAMP AND RAILING. RE: SHEET C201

LEGEND

	PROPERTY LINE EASEMENT LINE EXIST. CURB & GUTTER PROP. CURB & GUTTER
and the second s	EXIST. SIDEWALK
	PROP. SIDEWALK
	EXIST. LIGHT POLE
	PROP. LIGHT POLE
 1	EXIST, SIGN
<u></u>	PROP. SIGN
.	PROP. BOLLARD
LS	LANSCAPE AREA
الله الله الله الله الله الله الله الله	PROP. HANDICAP PARKING SYMBOL
AND TAKEN THE PROCESS OF THE POST OF THE P	EXIST. OVERHEAD POWER
N N	EXIST. WATER VALVE
	EXIST. POWER POLE
△ EX.FH	EXIST. FIRE HYDRANT
EM.	EXIST. ELECTRIC METER
TTSB.	EXIST, TRAFFIC SIGNAL BOX
	EXIST. ELECTRIC VAULT
(19/ <i>9</i>)	EXIST. TRAFFIC SIGNAL POLE EXIST. MANHOLE
	EXIST. INLET
20	PROP. CONTOUR
ess towns, som 5520 news, since views	EXIST, CONTOUR
	PROP. SAWCUT LINE
T	PROP. TRANSFORMER

DRAINAGE SUMMARY (RE: SHEET C390 FOR ADDITIONAL)

	MIXI (NE. C	STILL I COSO	TOK ADDITIC
LOT AREA	= 0.58 AC	RE	
LOT IMPERVIOUS AREA	= 17,543 \$	SF (0.40 ACR	RE)
FIRST FLUSH VOLUME REQ'D (0.34" X IMP. AREA)	= 497 CF		
FIRST FLUSH VOLUME PROVIDED	ELEV (FT)	AREA (SF)	VOLUME (CF)
	53.0 54.0	367 649	501
(FIRST FLUSH VOLUME ELEV.	= 53.72		497)

I have reviewed a copy of the *Grading As-Built*, dated October 5, 2015, prepared and stamped by Thomas D. Johnston, New Mexico Registered Land Surveyor No. 14269, and provided the same as-built information on the red-lined as-built plan.

The review is intended only to determine if the improvements as described solely by the as-built plan are in substantial compliance with the overall design intent of the grading and drainage aspects of the project as described on the approved plan(s) and in support of a request for a Certificate of Occupancy.

Upon review it has been found that the 2-foot wide concrete pan on the east side of the building conveys runoff entirely to the south rather than portions to the south and portions to the north. Portions of the pan are also constructed with a flat slope. The finished grade elevations of and near the trash enclosure suggest portions of the adjacent drive aisle may contribute minor runoff to the enclosure. The pond elevations indicate a lower pond bottom and a lower pond weir than

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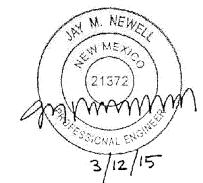
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2009 W. Littleton Blvd. #300 Littleton, CO 80120 303.794.4727 ph www.SterlingDesignAssociates.com

PREPARED UNDER THE DIRECT SUPERVISION OF JAY M. NEWELL, P.E.

NEW MEXICO REGISTRATION NO. 21372
FOR & ON BEHALF OF STERLING DESIGN ASSOCIATES, LLC



STERLING DESIGN ASSOCIATES, LLC

DESCRIPTION: CITY COMMENTS NO.: 2 DATE: 10/13/15 BY: JA DESCRIPTION: AS BUILT NO.: 3 DATE: BY: DESCRIPTION: NO.: 4 DATE: BY: DESCRIPTION: NO.: 5 DATE: BY: DESCRIPTION:	NO.: 1 DATE: 03/12/15	BY: JLO
DESCRIPTION: AS BUILT NO.: 3 DATE: BY: DESCRIPTION: NO.: 4 DATE: BY: DESCRIPTION: NO.: 5 DATE: BY:	DESCRIPTION: CITY COMME	ENTS
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09/23/14 1" = 20'-0"	JLO	-



63433-001

DRAWING FILE:

STARBUCKS DRIVE-THRU 700 JUAN TABO NE ALBUQUERQUE, NM 87123

DEVELOPER:

STARBUCKS COFFEE COMPANY 2401 UTAH AVENUE SOUTH SEATTLE, WA 98134 (206) 318-1575

SHEET TITLE:

GRADING & DRAINAGE PLAN

AS BULT

SHEET NUMBER:

C301

PORTION OF PARCEL 1-A, TRACT BB MONARCH VILLAGE CONT 0.5785 ACRES CITY OF ALBUQUERQUE, COUNTY OF BERNALILLO, STATE OF NEW MEXICO

GENERAL NOTES

- 1. REFER TO SHEET C100 FOR ADDITIONAL PROJECT GENERAL NOTES.
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- 15. ALL DISTURBED AREAS THAT ARE NOT DESIGNATED TO BE PAVED SHALL BE LANDSCAPED OR SEEDED, ACCORDING TO THE LANDSCAPE PLAN.
- 16. EXISTING DRAINAGE STRUCTURES SHALL BE INSPECTED AND REPAIRED AS NEEDED. AND EXISTING PIPES CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- 17. IF ANY EXISTING STRUCTURES, SIDEWALK, AND/OR CURB AND GUTTER MODIFIED OR TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER PRIOR TO PROJECT
- 18. ALL GRATES, MANHOLE RIMS, VALVE BOXES, VALVE COVERS, CLEANOUTS, AND VAULT OR BOX COVERS SHALL BE ADJUSTED TO "AS CONSTRUCTED" FINISHED GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.
- 19. NO PROPOSED SLOPE IN LANDSCAPED AREAS OR OPEN SPACE SHALL EXCEED THREE (3) HORIZONTAL FEET TO ONE (1) VERTICAL FOOT, OR AS OTHERWISE SPECIFIED BY LOCAL CRITERIA.
- 20. THE CONTRACTOR SHALL PROTECT THE PROJECT BENCHMARK THROUGHOUT CONSTRUCTION AND SET ADDITIONAL PROJECT BENCHMARKS AS NECESSARY TO MAINTAIN VERTICAL CONTROL THROUGHOUT THE DURATION OF THE
- 21. THE CONTRACTOR SHALL FILL AND COMPACT BASEMENTS, CESSPOOLS, AND OTHER LARGE EXCAVATED AREAS WITH CLEAN FILL SUITABLE TO THE OWNER, AND IN ACCORDANCE WITH RECOMMENDATIONS OBTAINED FROM THE GEOTECHNICAL REPORT OR GEOTECHNICAL ENGINEER AND GRADE TO MATCH EXISTING OR PROPOSED FINISH GRADE: OR CONFIRM SUCH WORK HAS BEEN PERFORMED PRIOR TO CONSTRUCTION.

GRADING NARRATIVE

EXISTING SITE TOPOGRAPHY GENERALLY SLOPES AT APPROXIMATELY 6% FROM THE EAST TO THE WEST ACROSS THE EXISTING PAVED PARKING LOT. EXISTING PERIMETER LANDSCAPE AREAS ARE STEEPER.

PROPOSED GRADING IMPROVEMENTS INCLUDE PROVIDING A RELATIVELY FLAT PAD FOR THE PROPOSED BUILDING, PEDESTRIAN, AND ASSOCIATED ADA ACCESS AREAS. PROPOSED PERIMETER DRIVE AND PARKING AREAS INCLUDE SLOPES OF 1% TO 6%. PERIMETER LANDSCAPE AREAS THEREFORE INCLUDE SLOPES OF UP TO 3:1. A PROPOSED RETAINING WALL (MAXIMUM HEIGHT EQUALS APPROXIMATELY 4.5-FEET) IS REQUIRED TO ACCOMMODATE THE PROPOSED GRADES IN THE NORTHEAST CORNER OF THE SITE. CUT AND FILL DEPTHS ARE BOTH PROPOSED TO BE APPROXIMATELY 3-FEET MAXIMUM. THE SITE WILL GENERALLY CONVEY STORMWATER RUNOFF IN CONFORMANCE WITH THE EXISTING DRAINAGE SYSTEM. RUNOFF WILL BE CONVEYED AS SHEET FLOW ACROSS THE PAVED AREAS TO LOW POINTS ALONG THE PERIMETER CURB AND GUTTER. THREE CURB OPENINGS WILL DIRECT RUNOFF TO AND ACROSS THE PERIMETER LANDSCAPE AREAS BEFORE DISCHARGING AS SURFACE FLOW TO THE PUBLIC STREET STORM SEWER SYSTEM.

THE REQUIRED FIRST FLUSH VOLUME WILL BE PROVIDED IN AN ON-SITE POND DOWNSTREAM OF TWO OF THE PROPOSED CURB OPENINGS AND WILL DISCHARGE ACROSS THE PERIMETER LANDSCAPE AREAS AS SURFACE FLOW TO THE PUBLIC STREET STORM SEWER SYSTEM.

A METAL PLATE PERFORATED WITH 0.25" DIA. HOLES AT 4" ON CENTER VERTICALLY WILL CONTROL THE RELEASE OF THE FIRST FLUSH VOLUME TO DISCHARGE OVER 40 HOURS. RUNOFF IN EXCESS OF THE FIRST FLUSH WILL DISCHARGE THROUGH A CONCRETE WEIR OPENING.

REFER TO THE DRAINAGE SUMMARY ON THIS SHEET, AND THE PEAK DISCHARGE AND OUTLET CALCULATIONS ON SHEET C390 FOR ADDITIONAL INFORMATION.



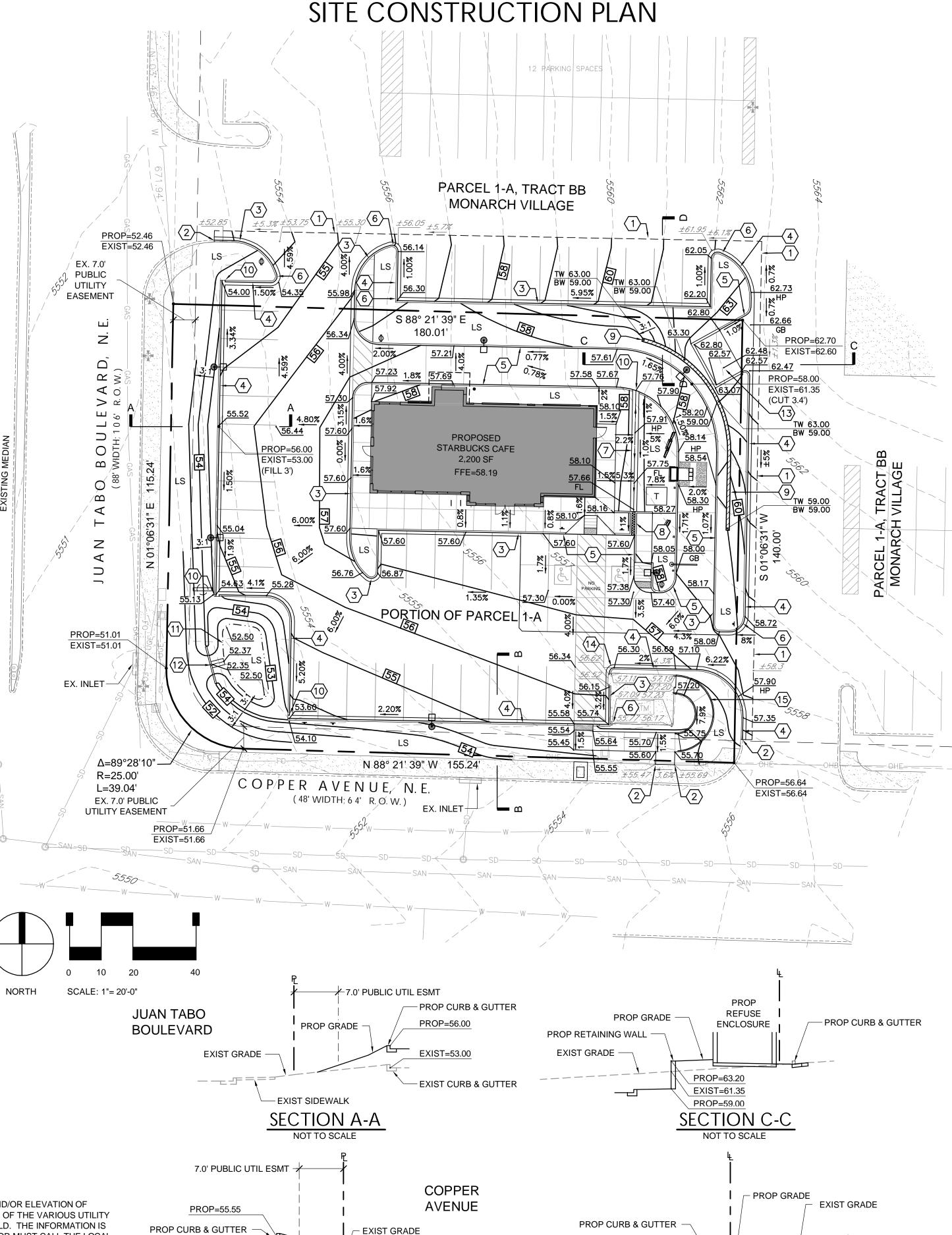
CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, 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 (1-800-245-4545) AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

EXIST=54.50

EXIST CURB & GUTTER

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES AND SHALL REPAIR ANY DAMAGE AT HIS EXPENSE.



— EXIST SIDEWALK

CONSTRUCTION NOTES

- (1) SAWCUT AND/OR REMOVE EXISTING PAVEMENT, CONCRETE, CURB RAMPS, AND/OR CURB & GUTTER TO NEAREST JOINT, OR TO LIMITS
- (2) CONSTRUCT IMPROVEMENTS TO MATCH LINE AND GRADE OF EXISTING PAVEMENT, WALK, AND/OR CURB & GUTTER.
- (3) CONSTRUCT 6-INCH CONCRETE CURB & GUTTER WITH 1-FOOT SPILL PAN. RE: SHEET C390, DETAIL C.
- 4 CONSTRUCT 6-INCH CONCRETE CURB & GUTTER WITH 1-FOOT CATCH PAN. RE: SHEET C390, DETAIL C.
- (5) CONSTRUCT 6-INCH CONCRETE INTEGRAL CURB. RE: SHEET C390, DETAIL C.
- (6) CONSTRUCT TRANSITION FROM CATCH TO SPILL PAN. FIELD VERIFY THAT RUNOFF WILL COMPLETELY EXIT PAN ONTO ADJACENT PAVEMENT.
- $\langle 7 \rangle$ CONSTRUCT 2-FOOT WIDE CONCRETE PAN AS SHOWN. RE: SHEET C390. DETAIL A.
- (8) CONSTRUCT 1-FOOT WIDE (SINGLE) SIDEWALK CULVERT WITH STEEL PLATE TOP AND WITHOUT V-SHAPED INVERT. DEPTH OF CULVERT OPENING SHALL BE CONSISTENT 6" FROM TOP OF TOP PLATE TO INVERT. FULL WIDTH OF CULVERT (1') SHALL SLOPE CONSISTENTLY WITH ADJACENT SIDEWALK CROSS SLOPE FROM BACK OF WALK TO FLOWLINE OF CURB & GUTTER. RE: CITY OF ALBUQUERQUE STANDARD DETAIL DWG. 2236 AND SHEET C390, DETAIL E FOR ADDITIONAL DETAIL.
- (9) CONSTRUCT RETAINING WALL. RE: ARCH/STRUCTURAL PLANS.
- (10) CONSTRUCT 1.0' CURB OPENING. RE: SHEET C390, DETAIL B.
- (11) CONSTRUCT WATER QUALITY POND. RE: SHEET C390, DETAIL F.
- (12) CONSTRUCT CONCRETE OUTLET CONTROL WALL WITH WEIR AND PERFORATED STEEL PLATE. RE: SHEET C390, DETAIL G.
- (13) CONSTRUCT REFUSE ENCLOSURE DRAIN AT LOW POINT. RE: SHEET C501.
- (14) EXISTING CONCRETE STEPS TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION. RE: SHEET C390, DETAIL D.
- (15) CONSTRUCT RAMP AND RAILING. RE: SHEET C201

LEGEND

LOT AREA

EXIST=60.10

- PROP=57.90

PROP CURB & GUTTER

PROP RETAINING WALL

LLOLIND	
	PROPERTY LINE
	EASEMENT LINE
	EXIST. CURB & GUTTER
	PROP. CURB & GUTTER
	EXIST. SIDEWALK
	PROP. SIDEWALK
LP	EXIST. LIGHT POLE
♦	PROP. LIGHT POLE
4	EXIST. SIGN
•	PROP. SIGN
•	PROP. BOLLARD
LS	LANSCAPE AREA
Ě	PROP. HANDICAP PARKING SYMBOL
OHE	EXIST. OVERHEAD POWER
\bowtie	EXIST. WATER VALVE
\sim	EXIST. POWER POLE
∠ EX. FH	EXIST. FIRE HYDRANT
EM	EXIST. ELECTRIC METER
□TSB	EXIST. TRAFFIC SIGNAL BOX
□ EV	EXIST. ELECTRIC VAULT
TS(o)	EXIST. TRAFFIC SIGNAL POLE
	EXIST. MANHOLE EXIST. INLET
20	
	PROP. CONTOUR
- <i> 5520</i>	EXIST. CONTOUR
	PROP. SAWCUT LINE
T	PROP. TRANSFORMER

DRAINAGE SUMMARY (RE: SHEET C390 FOR ADDITIONAL)

= 0.58 ACRE

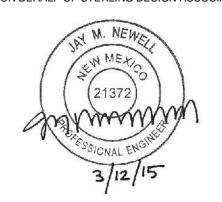
LOT IMPERVIOUS AREA	= 17,543 S	SF (0.40 ACR	E)
FIRST FLUSH VOLUME REQ'D (0.34" X IMP. AREA)	= 497 CF		
FIRST FLUSH VOLUME PROVIDED	ELEV (FT)	AREA (SF)	VOLUME (CF)
	53.0 54.0	367 649	501
(FIRST FLUSH VOLUME ELEV.	= 53.72		497)



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PREPARED UNDER THE DIRECT SUPERVISION OF

JAY M. NEWELL, P.E. NEW MEXICO REGISTRATION NO. 21372 FOR & ON BEHALF OF STERLING DESIGN ASSOCIATES, LLC



STERLING DESIGN ASSOCIATES, LLC

NO.: 1 DATE: 03/12/15	BY: JLO
DESCRIPTION: CITY COMMENTS	
NO.: 2 DATE:	BY:
DESCRIPTION:	
NO.: 3 DATE:	BY:
DESCRIPTION:	
NO.: 4 DATE:	BY:
DESCRIPTION:	
NO.: 5 DATE:	BY:
DESCRIPTION:	
NO.: 6 DATE:	BY:

DATE: 09/23/14	SCALE: 1" = 20'-0"
PROJECT MANAGER:	PROJECT NO.:
JLO	-
DRAWN BY:	DRAWING FILE:
JMN	-



63433-001

STARBUCKS DRIVE-THRU **700 JUAN TABO NE ALBUQUERQUE, NM 87123**

DEVELOPER:

STARBUCKS COFFEE COMPANY 2401 UTAH AVENUE SOUTH SEATTLE, WA 98134 (206) 318-1575

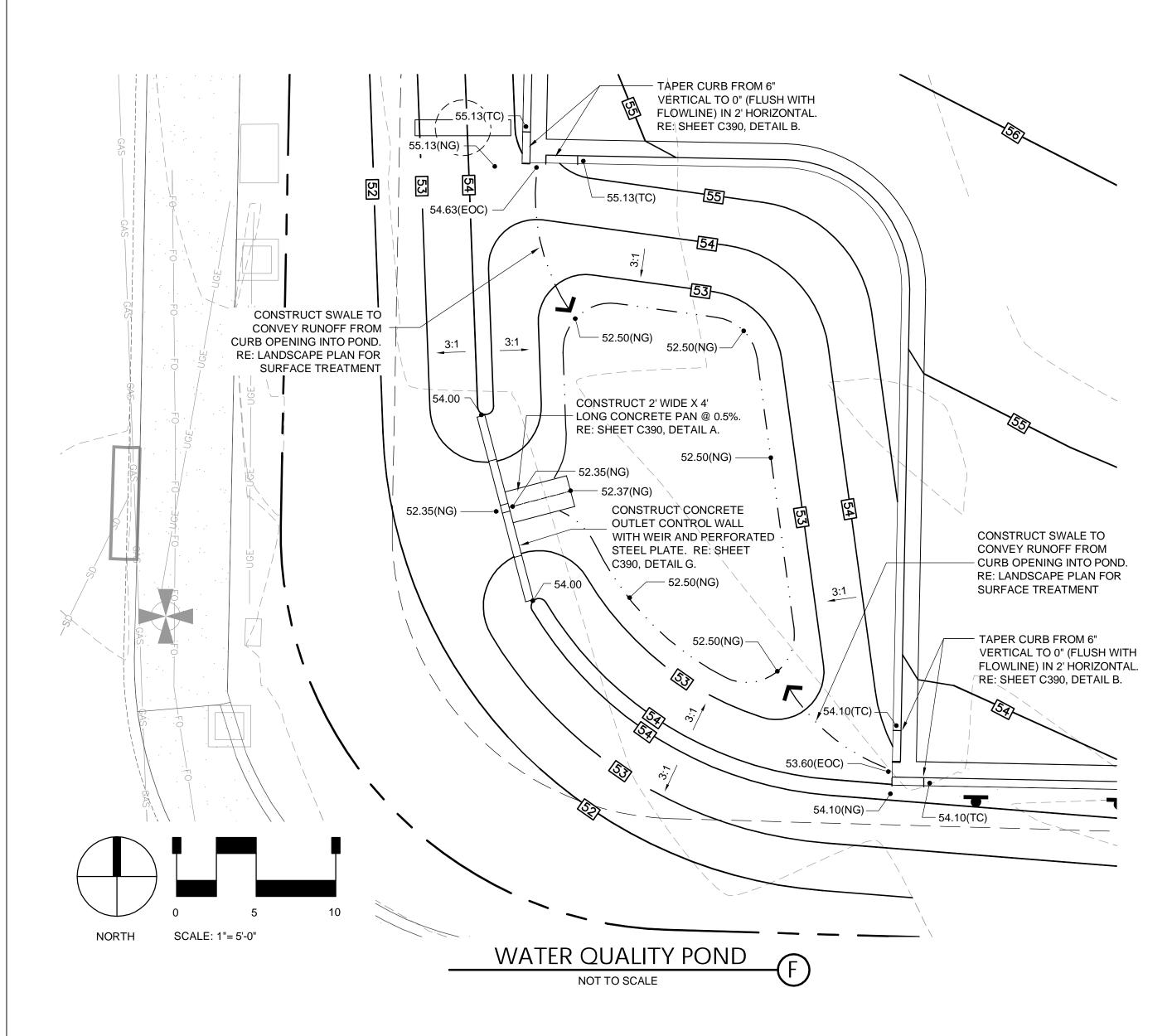
GRADING & DRAINAGE PLAN

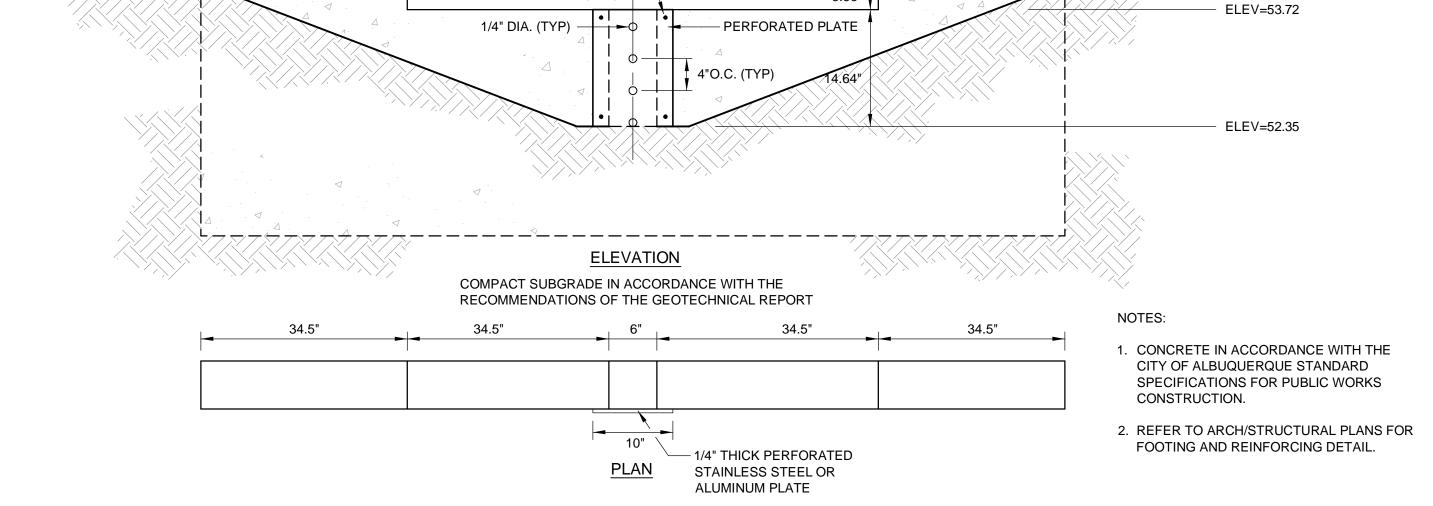
SHEET NUMBER:

C301

PORTION OF PARCEL 1-A, TRACT BB
MONARCH VILLAGE CONT 0.5785 ACRES
CITY OF ALBUQUERQUE, COUNTY OF BERNALILLO, STATE OF NEW MEXICO

SITE CONSTRUCTION PLAN





OUTLET CONTROL WALL

NOT TO SCALE

BOLT PLATE TO CONC. W/

STAINLESS STEEL BOLTS (TYP)

PEAK DISCHARGE CALCULATIONS

PEAR DISCHARGE CALCULATIONS				
TABLE A-9 METHOD				
PRECIPITATION ZONE: LAND TREATMENT: WATERSHED AREA: Tc:	4 D 0.58 AC. 12 MIN.		(ADPM, FIG. A-1) (ADPM, TABLE A-4) (ADPM, SECT. A.6)	
PEAK DISCHARGE RATE:	100-YR 10-YR 2-YR	= 5.25 CFS/AC = 3.57 CFS/AC = 2.17 CFS/AC	(ADPM, TABLE A-9) (ADPM, TABLE A-9) (ADPM, TABLE A-9)	
PEAK DISCHARGE:	100-YR 10-YR 2-YR	= 3.05 CFS = 2.07 CFS = 1.26 CFS		
RATIONAL METHOD				
RATIONAL COEFFICIENT:	100-YR 10-YR 2-YR	= 0.94 = 0.93 = 0.93	(ADPM, TABLE A-11) (ADPM, TABLE A-11) (ADPM, TABLE A-11)	
RAINFALL INTENSITY:	100-YR	= 5.61 IN/HR	(ADPM, TABLE A-10)	

= 3.83 IN/HR

= 2.34 IN/HR

= 3.06 CFS

= 2.07 CFS

(ADPM, TABLE A-10)

(ADPM, TABLE A-10)

2-YR = 1.26 CFS

(ADPM = ALBUQUERQUE DEVELOPMENT PROCESS MANUAL)

10-YR

2-YR

10-YR

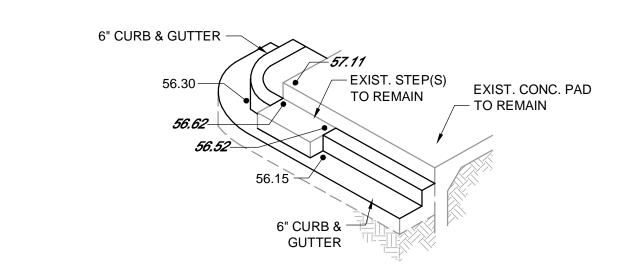
OUTLET CALCULATIONS

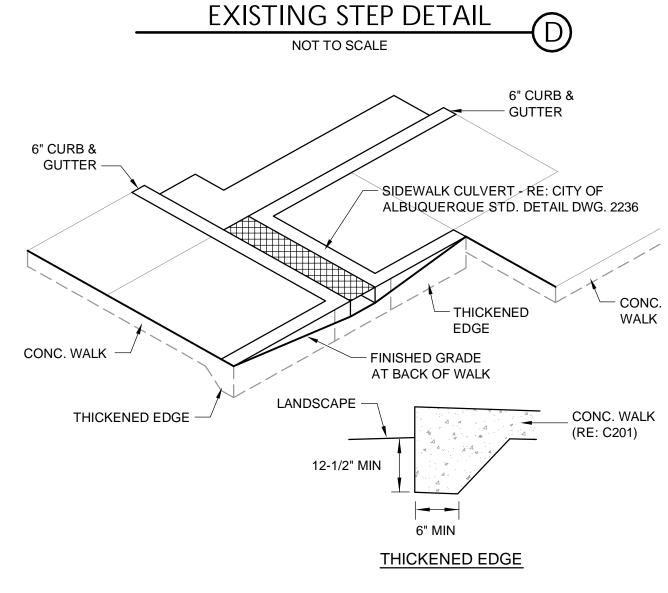
PEAK DISCHARGE:

ELEV=54.00

VOLUME:	497 CF (0.0114 AC-FT)	
HEIGHT:	1.37 FT (53.72 TO 52.35)	
Td (DRAIN TIME):	40 HR	
S (SLOPE):	0.5%	
Ao (OPEN AREA PER ROW):	0.048 SQ.IN.	(UDFCD, DCM, VOL. III, EQ. EDB-3
ORIFICE DIAMETER:	0.25 IN.	(UDFCD, DCM, VOL. III, TABLE OS
WEIR		
PEAK DISCHARGE:	3.06 CFS	
C (WEIR COEFFICIENT):	3.33	
LENGTH:	6.25 FT.	
H (HEIGHT OF WEIR):	0.28 FT.	

(UDFCD, DCM = URBAN DRAINAGE FLOOD CONTROL DISTRICT, DRAINAGE CRITERIA MANUAL)

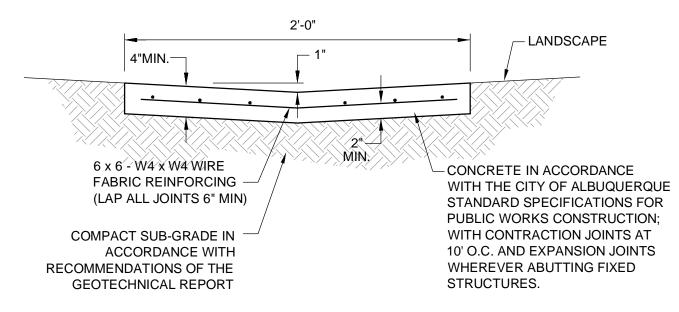




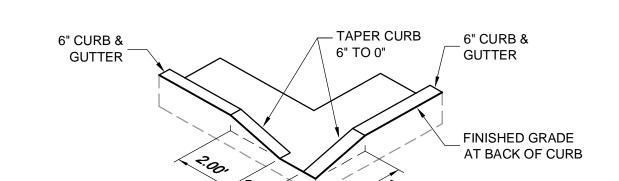
COMPACT SUBGRADE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT

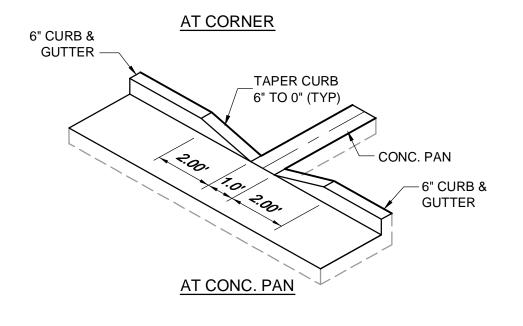
SIDEWALK CULVERT

NOT TO SCALE

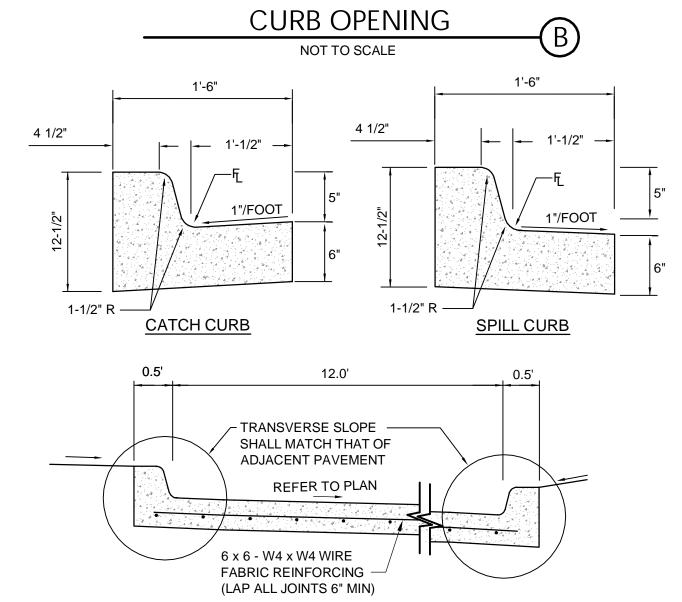


PRIVATE VALLEY PAN NOT TO SCALE





COMPACT SUBGRADE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT



INTEGRAL CURB

PRIVATE CURB & GUTTER

NOT TO SCALE



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PREPARED UNDER THE DIRECT SUPERVISION OF

JAY M. NEWELL, P.E. NEW MEXICO REGISTRATION NO. 21372 FOR & ON BEHALF OF STERLING DESIGN ASSOCIATES, LLC



STERLING DESIGN ASSOCIATES, LLC

NO.: 1	DATE: 03/12/15	BY: JLO
DESCRIP [®]	TION: CITY COMMENTS	
NO.: 2	DATE:	BY:
DESCRIP'	TION:	
NO.: 3	DATE:	BY:
DESCRIP	TION:	
NO.: 4	DATE:	BY:
DESCRIP	TION:	
NO.: 5	DATE:	BY:
DESCRIP	TION:	
NO.: 6	DATE:	BY:

DATE: 09/23/14	SCALE:
PROJECT MANAGER: JLO	PROJECT NO.:
DRAWN BY:	DRAWING FILE:



63433-001

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DEVELOPER:

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SHEET TITLE:

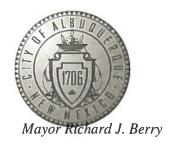
GRADING DETAILS

SHEET NUMBER:

C390

CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



October 19, 2015

Jay Newell, P.E. Sterling Design Associates, LLC 2009 W. Littleton Blvd. Suite 300 Littleton, CO 80120

RE: Starbucks

700 Juan Tabo Blvd. NE Grading and Drainage Plan

Engineers Stamp Date 3/12/15 (K22D006B)

Certification Dated 10/19/15

PO Box 1293

Dear Mr. Newell,

Based upon the information provided in your submittal received 10/19/15, this certification is approved for Permanent Cartificate of Occupancy

Albuquerque

certification is approved for Permanent Certificate of Occupancy.

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

New Mexico 87103

www.cabq.gov

Rita Harmon, P.E.

Sincerely,

Senior Engineer, Hydrology

Planning Department

RR/RH C: File