

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

November 13, 2025

Jana Miller
Miller Engineering Consultants, Inc
3500 Comanche NE Bldg. F
Albuquerque, NM 87107

**RE: Arby's Restaurant
6110 San Mateo NE
Grading and Drainage Plans
Engineer's Stamp Date: 10/16/25
Hydrology File: E18D065
Case # HYDR-2025-00399**

Dear Ms. Miller:

Based upon the information provided in your submittal received 11/04/2025, the Grading & Drainage Plans **are not** approved for Building Permit and Grading Permit. The following comments need to be addressed for approval of the above referenced project:

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

1. An SO-19 Permit will be required and should be included on the request. Please include the [standard SO-19](#) notes on the grading plan.
2. Please provide the Benchmark information (location, description and elevation) for the survey contour information provided.
3. For trash enclosures serving food service developments, trash enclosures must demonstrate control of liquids from dumpster areas per DPM by containing runoff from the dumpster area, preventing outside drainage from entering the dumpster area, and discharging to the sanitary sewer. Please show an inlet in the middle and label. "Inlet to be connected to the sanitary sewer. See Utility Plan."

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, 505-924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3314 or amontoya@cabq.gov.

Sincerely,

Anthony Montoya, Jr., P.E., CFM
Senior Engineer, Hydrology

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

Planning Department, Development Review Services

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NM 87103

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City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title: Arby's Restuarant Hydrology File # _____
Legal Description: TRACT 'A' FRAN'S REDIVISION OF A PORTION OF LAND OF BOY'S ACADEMY IN ELENA
City Address, UPC, OR Parcel: 6110 San Mateo Blvd NE, Albuquerque, NM 87109

Applicant/Agent: Miller Engineering Consultants, Inc. Contact: Verlyn A. Miller
Address: 3500 Comanche NE, Bldg. F, Albuquerque, NM 87107 Phone: 505-888-7500
Email: vmiller@mecnm.com

Applicant/Owner: MJG CORPORATION Contact: Gary Chaves
Address: 204 W. 4TH ST, Roswell, NM 88201 Phone: 575-622-8522
Email: gchaves@mjgcorp.com

(Please note that a DFT SITE is one that needs Site Plan Approval & ADMIN SITE is one that does not need it.)

TYPE OF DEVELOPMENT: PLAT (#of lots) _____ RESIDENCE
 DFT SITE ADMIN SITE

RE-SUBMITTAL: YES NO

DEPARTMENT: TRANSPORTATION HYDROLOGY/DRAINAGE

Check all that apply under Both the Type of Submittal and the Type of Approval Sought:

TYPE OF SUBMITTAL:

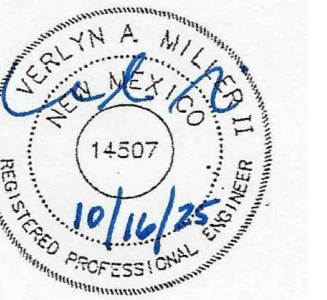
- ENGINEER/ARCHITECT CERTIFICATION
- PAD CERTIFICATION
- CONCEPTUAL G&D PLAN
- GRADING & DRAINAGE PLAN
- DRAINAGE REPORT
- DRAINAGE MASTER PLAN
- CLOMR/LOMR
- TRAFFIC CIRCULATION LAYOUT (TCL) ADMINISTRATIVE
- TRAFFIC CIRCULATION LAYOUT FOR DFT APPROVAL
- TRAFFIC IMPACT STUDY (TIS)
- STREET LIGHT LAYOUT
- OTHER (SPECIFY) _____

TYPE OF APPROVAL SOUGHT:

- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY
- CONCEPTUAL TCL DFT APPROVAL
- PRELIMINARY PLAT APPROVAL
- FINAL PLAT APPROVAL
- SITE PLAN FOR BLDG PERMIT DFT APPROVAL
- SIA/RELEASE OF FINANCIAL GUARANTEE
- FOUNDATION PERMIT APPROVAL
- GRADING PERMIT APPROVAL
- SO-19 APPROVAL
- PAVING PERMIT APPROVAL
- GRADING PAD CERTIFICATION
- WORK ORDER APPROVAL
- CLOMR/LOMR
- OTHER (SPECIFY) _____

DATE SUBMITTED: 11-4-25

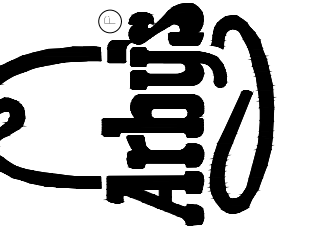
GENERAL NOTES



SPACE FOR COA APPROVAL STAMP AND/OR SIGNATURE



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ARBY'S RESTAURANT
22 SEATNARROW
6110 SAN MATEO BLVD NE
ALBUQUERQUE, NEW MEXICO

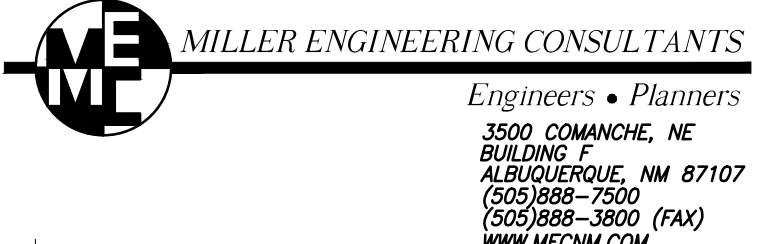
Project No. 25-011
Drawn by: MEC
Checked by: VAM

Issue Date:
October 16, 2025

Issue / Revision:	Date:

Sheet Title:
GENERAL NOTES

Sheet No.
CG-001



1. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185—WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT.

2. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMITS OF THIS PROJECT AND WILL BE RESPONSIBLE FOR ANY PRIVATE AGREEMENTS NECESSARY TO EXECUTE THIS CONTRACT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS EQUIPMENT TO PUBLIC OR PRIVATE PROPERTY.

3. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION ENGINEER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERE TO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

4. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES 48 HOURS BEFORE COMMENCING WORK IN THE AREAS NEAR UNDERGROUND UTILITY LINES. CONTRACTOR SHALL NOT INTERFERE WITH UTILITY LINE OPERATION AND SHALL COORDINATE ALL WORK AFFECTING EXISTING UTILITIES WITH THE APPROPRIATE AUTHORITY FOR EACH UTILITY, AND THE ENGINEER SHALL BE PROMPTLY NOTIFIED OF ANY PROBLEMS OR CONFLICTS ENCOUNTERED. ALL UTILITY WORK PERTAINING TO THIS PROJECT (NEW WORK AND/OR RELOCATIONS AND REPAIRS) SHALL BE COORDINATED AND PERFORMED BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL PAY FOR ALL PUBLIC AND PRIVATE UTILITY LOCATING SERVICES.

5. TOPOGRAPHIC DATA, BENCHMARKS, REFERENCE POINTS, P.I.'S, STRUCTURE TIES, AND ALL OTHER MISCELLANEOUS SURVEY INFORMATION WAS OBTAINED FROM PREVIOUS FIELD SURVEYS. IT IS ENTIRELY POSSIBLE THAT THESE POINTS MAY NO LONGER EXIST IN THE FIELD. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO REESTABLISH ANY MISSING BENCH MARKS, REFERENCE POINTS, OR P.I.'S REQUIRED FOR CONSTRUCTION OF THIS PROJECT AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VERIFY BETWEEN ADJACENT REFERENCE POINTS, BENCH MARKS, AND P.I.'S PRIOR TO THEIR USE IN CONSTRUCTING THIS PROJECT TO ASSURE THE INTEGRITY OF EACH POINT.

6. CONTRACTOR SHALL COORDINATE SITE ACCESS AND STAGING AREA WITH OWNER.

7. THE CONTRACTOR SHALL USE CAUTION AT ALL EXISTING STRUCTURES INCLUDING ALL UNREINFORCED MASONRY WALLS, BUILDINGS, FENCES ETC.. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO ANY STRUCTURES, DRIVEWAYS, LIGHT FIXTURES, AND WATER METERS, ETC.. AND SHALL REPAIR THE DAMAGES AT HIS OWN EXPENSE.

8. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2019 EDITION OF THE NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (GRAY BOOK). ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN PUBLIC WORKS ASSOCIATION, NEW MEXICO CHAPTER, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

9. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE SPECIFICATIONS AND STANDARD DRAWINGS. ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH ABCWUA STANDARD DRAWINGS AND SPECIFICATIONS.

10. WHEN ABUTTING NEW ASPHALT TO EXISTING ASPHALT, SAW CUT EXISTING ASPHALT TO A NEAT STRAIGHT LINE TO MATCH NEW ASPHALT.

11. DURING THE CONSTRUCTION OF THIS PROJECT, SOME OVERHEAD AND/OR UNDERGROUND UTILITY ADJUSTMENTS MAY HAVE TO BE ACCOMPLISHED CONCURRENTLY BY THE UTILITY OWNERS (CITY AND/OR PRIVATELY OWNED). THE CONTRACTOR SHALL COORDINATE AND ADVISE THE UTILITY OWNERS, ALLOWING ENOUGH TIME SO THAT THE REQUIRED UTILITY ADJUSTMENTS DO NOT IMPEDE THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE SUSTAINED DUE TO ANY INTERFERENCE FROM SAID UTILITY APPURTENANCES. ALL UTILITY WORK PERTAINING TO THIS PROJECT (NEW WORK AND/OR RELOCATIONS AND REPAIRS) SHALL BE COORDINATED AND PERFORMED BY THE GENERAL CONTRACTOR.

12. AS OF MARCH 10, 2003, THE USEPA REQUIRES NPDES PERMIT COVERAGE FOR STORM WATER DISCHARGES FROM CONSTRUCTION PROJECTS (COMMON PLANS OF DEVELOPMENT) THAT WILL RESULT IN THE DISTURBANCE (OR RE-DISTURBANCE) OF ONE OR MORE ACRES, INCLUDING EXPANSIONS OF TOTAL LAND AREA. THE DEVELOPER SHOULD BE MADE AWARE THAT THE USEPA REQUIRES THAT ALL "OPERATORS" (SEE FEDERAL REGISTER/VOL. 63, NO. 128 // MONDAY, JULY 6, 1998 PG 36509) OBTAIN NPDES PERMIT COVERAGE FOR CONSTRUCTION PROJECTS. GENERALLY THIS MEANS THAT AT LEAST TWO PARTIES WILL REQUIRE PERMIT COVERAGE. THE OWNER/DEVELOPER OF THIS CONSTRUCTION PROJECT WHO HAS OPERATIONAL CONTROL OVER THE PROJECT SPECIFICATIONS, THE GENERAL CONTRACTOR WHO HAS DAY-TO-DAY OPERATIONAL CONTROL OF THOSE ACTIVITIES AT THE SITE, WHICH ARE NECESSARY TO ENSURE COMPLIANCE WITH THE STORM WATER POLLUTION PLAN AND OTHER CONDITIONS, AND POSSIBLY OTHER "OPERATORS" THAT WILL REQUIRE APPROPRIATE NPDES PERMIT COVERAGE FOR THIS PROJECT. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR DEVELOPING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DOCUMENT FOR THE PROJECT AND PROVIDING, BUILDING, MANAGING AND MAINTAINING ALL BEST MANAGEMENT PRACTICES (BMP'S) AND TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE SWPPP DOCUMENT.

13. ALL ASPHALT PAVED SURFACES SHALL HAVE A MINIMUM SLOPE OF 1.00%. THE CONTRACTOR SHALL FIELD VERIFY AND NOTIFY THE PROJECT ENGINEER IF ANY ASPHALT PAVED SURFACES SLOPES ARE LESS THAN 1.00% PRIOR TO CONSTRUCTION.

14. ACCESS TO DELIVERING AND RECEIVING AREAS SHALL BE KEPT OPEN AT ALL TIMES. ANY ACCESS CLOSURE MUST BE SCHEDULED WITH THE PROPERTY OWNERS AT LEAST 48 HOURS IN ADVANCE AND APPROVED BY THE OWNER, PROJECT ARCHITECT AND THE PROJECT ENGINEER.

15. MAINTENANCE OF DRAINAGE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.

16. THE BASE MAPPING PROVIDED ON THESE DRAWINGS IS FROM A TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY CSI-CARTESIAN SURVEYS INC, RIO RANCHO, NEW MEXICO IN JUNE AND JULY 2025. NO FIELD VERIFICATION OF THIS DATA WAS CONDUCTED BY MILLER ENGINEERING CONSULTANTS INC. A FIELD SURVEY WAS CONDUCTED OF ALL VISIBLE UTILITY FEATURES ON THE SITE AND TO ESTABLISH A SURVEY CONTROL NETWORK. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO UNDERTAKE FIELD VERIFICATION OF ALL EXISTING UTILITIES AND MAP THEM WITH THEIR SUBSURFACE UTILITY ENGINEERING (SUE) COMPANY PRIOR TO CONSTRUCTION.

17. THE CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTALS ON ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.

18. DURING THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY TEMPORARY DRAINAGE MEASURES NECESSARY TO SAFELY CONVEY STORM WATER RUNOFF. ANY DAMAGES TO PUBLIC OR PRIVATE PROPERTY OR IMPROVEMENTS CONSTRUCTED BY THE CONTRACTOR RESULTING FROM STORM WATER FLOWS IN THE PROJECT VICINITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

19. WHEN ABUTTING NEW CONCRETE TO EXISTING CONCRETE, SAW CUT EXISTING CONCRETE TO A NEAT STRAIGHT LINE TO MATCH NEW CONCRETE DEPTH.

20. THE CONTRACTOR SHALL DEVELOP THE TRAFFIC CONTROL PLAN AND SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES AND CONSTRUCTION SIGNING IN ACCORDANCE WITH THE "MUTCD" (LATEST EDITION) DURING THE CONSTRUCTION PERIOD (WORKING AND NON-WORKING HOURS). ANY NECESSARY DEVIATION FROM THE "MUTCD" SHALL HAVE PRIOR APPROVAL OF THE PROJECT ENGINEER OR CONSTRUCTION INSPECTOR. THE CONTRACTOR SHALL SUBMIT A COPY OF THE PROPOSED TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER PRIOR TO CONSTRUCTION. THIS PLAN SHALL SATISFY THE REQUIREMENTS FOR PUBLIC SAFETY AND TRAVELING PUBLIC AS WELL AS THE REQUIREMENTS OF "MUTCD" AND SHALL BE REVISED AS NECESSARY TO MEET THE REQUIREMENTS DURING THE CONSTRUCTION PERIOD. THE SECTIONS OF ROADWAY WHICH ARE OPEN TO TRAFFIC SHALL BE KEPT IN GOOD RIDING CONDITION AND CLEAR OF HAZARDS TO TRAFFIC. THE SAFETY AND COMFORT OF THE TRAVELING PUBLIC AND ACCESS TO RESIDENCES AND OTHER TURNOUTS SHALL BE OF PRIMARY CONSIDERATION.

21. THE CONTRACTOR SHALL HAUL AND DISPOSE OF ALL CONCRETE RUBBLE AND OTHER REMOVALS TO AN ENVIRONMENTALLY SUITABLE LOCATION.

22. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING EXISTING ASPHALT PAVING. ANY DAMAGE TO THE ASPHALT DUE TO CONSTRUCTION ACTIVITY WILL BE REPAIRED BY THE CONTRACTOR AT OWN EXPENSE.

23. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE PLAN.

24. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0% AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 12:1. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL FIELD VERIFY AND NOTIFY THE PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THESE REQUIREMENTS PRIOR TO CONSTRUCTION.

25. THE OWNER WILL HAVE A CERTIFIED TESTING LAB PERFORM ACCEPTANCE TESTING TO INCLUDE ALL NECESSARY COMPACTION TESTING AND MATERIAL TESTING FOR ALL FILL MATERIAL, SUBGRADE PREPARATION, BASE COURSE, HMA, AND CONCRETE WITH THE FREQUENCIES PROVIDED BELOW. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THESE TESTS WITH THE OWNER'S ACCEPTANCE TESTING LAB. THE CONTRACTOR MAY CHOOSE TO PERFORM HIS OWN QUALITY CONTROL TESTING BY A SEPARATE INDEPENDENT LAB DURING CONSTRUCTION FOR HIS OWN PURPOSES.

ACCEPTANCE TESTING BY THE OWNER:

MATERIAL AND DENSITY TESTING BY THE OWNER WILL BE PERFORMED AT THE FOLLOWING FREQUENCIES:

HOT MIX ASPHALT (HMA) PAVING: HMA SAMPLING WILL BE CONDUCTED AT A RATE OF ONE FOR EACH DAY OF PAVING. THREE CORES SAMPLES SHALL BE TAKEN FOR EACH DAY OF PAVING. ACCEPTANCE TESTING FOR DENSITIES SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 416. HOT MIX ASPHALT SAMPLING ACCEPTANCE TESTING SHALL BE CONDUCTED AT A RATE OF ONE SAMPLE PER DAY OF PAVING.

BASE COURSE: BASE COURSE SAMPLING WILL BE AT A RATE OF ONE SAMPLE PER SOURCE. DENSITIES TESTING WILL BE CONDUCTED WITH A NUCLEAR DENSOMETER AT A RATE OF ONE TEST PER 200 SY.

SUBGRADE: DENSITIES TESTING WILL BE CONDUCTED WITH A NUCLEAR DENSOMETER AT A RATE OF ONE TEST PER 200 SY.

SITE CONCRETE: SITE CONCRETE WILL BE TESTED BY COLLECTING THREE CONCRETE SPECIMENS FOR EVERY 10 CY OF CONCRETE. THE SPECIMENS WILL BE USED FOR THE 7 DAY BREAK AND 30 DAY BREAK RESPECTIVELY.

THE CONTRACTOR MAY CONDUCT QUALITY CONTROL TESTING AT THE CONTRACTOR'S SOLE EXPENSE.

26. ALL BASE COURSE SHALL CONSIST OF A TYPE I BASE COURSE MATERIAL.

27. THE HMA MIX DESIGN FOR THIS PROJECT SHALL MATCH THE NMDOT SP IV MIX DESIGN REQUIREMENTS.

28. THE CONTRACTOR WILL BE RESPONSIBLE FOR RECORDING ALL CHANGES OR REVISIONS FROM THESE CONSTRUCTION DRAWINGS THAT TAKE PLACE DURING CONSTRUCTION. THESE CHANGES OR REVISIONS SHALL BE NOTED ON AS BUILT DRAWINGS THAT WILL BE PROVIDED TO THE PROJECT ARCHITECT UPON COMPLETION OF THE PROJECT. AS-BUILTS MUST BE SUBMITTED IN AN ELECTRONIC FORMAT ACCEPTABLE TO THE OWNER AND ARCHITECT.

29. POTHOLING: THE CONTRACTOR SHALL BE REQUIRED TO POTHOLE ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND REPORT THE FINDINGS OF THE POTHOLING RESULTS TO THE ARCHITECT AND ENGINEER PRIOR TO CONSTRUCTION.

30. NOT USED.

31. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND VISIBLE UTILITY FEATURES WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL REPORT TO THE ENGINEER ANY VISIBLE FEATURES THAT MAY NOT APPEAR ON THE TOPOGRAPHIC SURVEY SO THAT ANY ADJUSTMENTS MAY BE MADE TO THE INTENT OF THE DESIGN. THE CONTRACTOR SHALL ALSO FIELD VERIFY EXISTING ELEVATION WHERE NEW CONSTRUCTION IS CONNECTING TO EXISTING CONSTRUCTION SO THAT PROPOSED ELEVATION AND SLOPE CHANGE MAY BE ADDRESSED AS NEEDED.

32. THE CONTRACTOR SHALL REFER TO THE ARCHITECT'S DEMO PLANS FOR REMOVAL AND DISPOSAL OF ALL EXISTING INFRASTRUCTURE WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN WATER AND IRRIGATION SERVICE TO THE CAMPUS AT ALL TIMES DURING CONSTRUCTION.

33. ALL WELDED WIRE FABRIC SHALL CONSIST OF A 6X6 W2.9XW2.9.

34. ALL SIDEWALKS SHALL HAVE CONSTRUCTION CONTROL JOINTS SPACED EVERY 5 FEET AND EXPANSION JOINTS SPACED EVERY 30 FEET.

35. WHEN TAPPING INTO THE EXISTING SEWER MAIN TO INSTALL THE NEW SEWER MANHOLE THE CONTRACTOR SHALL PROVIDE THE NECESSARY BYPASS PUMPING (AS WELL AS OTHER MEAN AND METHODS NECESSARY) SO THAT SERVICE IS MAINTAINED AND NOT INTERRUPTED.

36. CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO PROTECT FROM DAMAGING EXISTING UTILITY LINES, WALKS, LANDSCAPING, ETC. WHICH WILL REMAIN AS PART OF THE FINAL SYSTEM. EXTRA CARE MUST BE GIVEN TO PRESERVING EXISTING IRRIGATION LINES AND LANDSCAPING. CONTRACTOR SHALL REPAIR AND/OR RESTORE THESE ITEMS AS REQUIRED TO PRE-CONSTRUCTION CONDITION AT THERE OWN EXPENSE.

37. BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT:

THE BIDDER HAS CAREFULLY EXAMINED THE PROJECT SITE AND AREA OF WORK, AND THAT FROM HIS OWN INVESTIGATIONS, HE HAS SATISFIED HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK, AND THE CHARACTER QUALITY AND QUANTITIES OF MATERIALS AND DIFFICULTIES TO BE ENCOUNTERED, THE KIND AND EXTENT OF EQUIPMENT AND OTHER FACILITIES NEEDED FOR PERFORMANCE OF THE WORK, THE GENERAL AND LOCAL CONDITIONS AND OTHER ITEMS WHICH MAY IN ANY WAY AFFECT THE WORK OR ITS PERFORMANCE. NO ADDITIONAL COST SHALL ACCRUE TO THE OWNER AS A LACK OF SUCH FIELD VERIFICATIONS.

THE GENERAL CONTRACTOR AND/OR SUBCONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL TRADES AND ALL OTHER SUBCONTRACTORS ON THE JOB. IT SHALL BE THEIR RESPONSIBILITY TO SEE THAT ALL ASPECTS OF THE WORK BE FULLY UNDERSTOOD BY ALL PERSONS PERFORMING ANY PART OF THE WORK. NO ADDITIONAL COST SHALL ACCRUE TO THE OWNER AS RESULT OF ANY LACK OF SUCH COORDINATION OR UNDERSTANDING.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ESTIMATING QUANTITIES AND MATERIALS. COORDINATION BETWEEN LANDSCAPE AND CIVIL DRAWINGS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IF ANY IRREGULARITIES ARE DISCOVERED, BRING THIS TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID SUBMISSION.

38. ALL WATER LINES SHALL HAVE A 36" MINIMUM BURY.

39. THE CONTRACTOR SHALL PLACE EMD DEVICES AT THE END OF ALL UTILITY SERVICE LINE SUB-OUTS SO THAT THE OWNER CAN EASILY LOCATE THEM IN FUTURE PHASES.

CIVIL DRAWING INDEX

SHEET No.	SHEET TITLE
CG-100	GENERAL NOTES AND DRAWING INDEX
C-100	HYDROLOGY PLAN
C-101	GRADING AND DRAINAGE PLAN
C-102	SITE UTILITY PLAN
C-501	MISCELLANEOUS DETAILS
C-502	MISCELLANEOUS DETAILS

40. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL ON THE SITE DURING THE DURATION OF CONSTRUCTION, PARTICULARLY WITH THE GRADING WORK TO BE ACCOMPLISHED ON THIS PROJECT.

41. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.

42. THE CONTRACTOR SHALL NOTIFY THE PROJECT ARCHITECT AND PROJECT ENGINEER OF ANY CONFLICT WITH SITE UTILITIES OR FEATURES AND OBTAIN A RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.

43. CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO PROTECT FROM DAMAGING EXISTING UTILITY LINES, WALKS, LANDSCAPING, ETC. WHICH WILL REMAIN AS PART OF THE FINAL SYSTEM. CONTRACTOR SHALL REPAIR AND/OR RESTORE THESE ITEMS AS REQUIRED TO PRE-CONSTRUCTION CONDITION.

44. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND OBTAINING ALL NECESSARY PERMITS AS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT.

45. INSTALLATION OF ALL PIPE FITTINGS, ANGLES, BENDS, WYES, TEES ETC. REQUIRED TO INSTALL THE WATERLINE AND SANITARY SEWER LINE WILL BE CONSIDERED INCIDENTAL TO THE WATERLINE AND SANITARY SEWER LINE ITEM AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK.

46. IF THE CONTRACTOR INADVERTENTLY DAMAGES AN EXISTING OR PROPOSED UTILITY DURING CONSTRUCTION, THE CONTRACTOR SHALL REPAIR THE DAMAGED UTILITY IN ACCORDANCE WITH THE SPECIFICATIONS AS THE CONTRACTOR'S EXPENSE AND AT NO EXPENSE TO THE OWNER.

47. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.95%. ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 4.95% AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 12:1.

48. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.

49. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY COMPACTION TESTING, QUALITY ASSURANCE TESTING AND ANY OTHER TESTING REQUIRED ON CIVIL RELATED ITEMS AS OUTLINED IN THE SPECIFICATIONS. ARCHITECT AND ENGINEER TO CLARIFY DIFFERENCE.

50. ALL LOCATIONS WHERE NEW CONSTRUCTION CONNECTS TO EXISTING CONCRETE OR PAVEMENT CONTRACTOR SHALL VERIFY EXISTING SPOT ELEVATIONS SHOWN ON PLANS. IF THERE IS A CONFLICT NOTIFY PROJECT

51. ALL STORM DRAIN PIPE SHALL BE DOUBLE WALL HDPE STORM DRAIN PIPE WITH WATER TIGHT JOINTS. ALL PVC STORM DRAIN PIPE SHALL BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS AND SHALL HAVE WATERTIGHT JOINTS.

52. ALL STORM DRAIN PIPE, INLETS AND RELATED APPURTENANCES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

53. CONTRACTOR SHALL VERIFY ALL PIPE LENGTHS, SLOPES AND LOCATIONS PRIOR TO INSTALLATION WITH THE PROJECT ENGINEER.

54. CONNECTIONS TO DISSIMILAR PIPING SHALL BE WITH FITTINGS RECOMMENDED BY MANUFACTURERS.

55. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION EFFORTS (AN ASSOCIATED COSTS) FOR ALL UTILITY WORK ON THIS PROJECT.

56. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY CONFLICTS BETWEEN EXISTING OR PROPOSED UTILITIES ON THIS PROJECT PRIOR TO CONSTRUCTION.

57. THE CONTRACTOR WILL BE RESPONSIBLE FOR RECORDING ALL CHANGES OR REVISIONS FROM THESE CONSTRUCTION DRAWINGS THAT TAKE PLACE DURING CONSTRUCTION. THESE CHANGES OR REVISIONS SHALL BE NOTED ON AS BUILT DRAWINGS THAT WILL BE PROVIDED TO THE PROJECT ARCHITECT UPON COMPLETION OF THE PROJECT.

58. THE CONTRACTOR SHALL SUBMIT A JOINT PATTERN PLAN FOR THE CONCRETE PAVING ON THE PROJECT. THE JOINT PATTERNS SHALL HAVE A PLAN FOR ALL CONTROL JOINTS AND EXPANSION JOINTS REQUIRED FOR THE CONCRETE PAVING. THE PLAN SHALL FOLLOW THE GUIDANCE AND RECOMMENDATIONS BY ACI 330.

59. THE CONTRACTOR SHALL SUBMIT A SEED MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO STARTING THE SEEDING ON THE PROJECT. THE SEED MIX DESIGN SHALL BE A SEED MIX RECOMMENDED BY NRCS FIELD OFFICE REPRESENTATIVE APPROPRIATE FOR PROJECT LOCATION.

ALL DISTURBED AREAS, NOT ADDRESSED BY ARCHITECTURAL LANDSCAPE PLAN WITH SLOPES OF LESS THAN 3:1 SHALL RECEIVE CLASS "A" SEEDING. ANY SLOPES THAT ARE 3:1 OR STEEPER SLOPES SHALL RECEIVE STEEP SLOPE SEEDING. THE STEEP SLOPE SEEDING SHALL CONSIST OF SEEDING IN CONJUNCTION WITH A 100% COCONUT FIBER BLEND EROSION BLANKET (NORTH AMERICAN GREEN C125) OR APPROVED EQUAL. ALL MATERIALS, EQUIPMENT AND LABOR ASSOCIATED WITH THE PROPER CONSTRUCTION OF THE STEEP SLOPE SEEDING WILL BE CONSIDERED INCIDENTAL AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS MATERIAL OR WORK. THE COCONUT FIBER EROSION BLANKET AND ASSOCIATED SEEDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.

WATER AND SANITARY SEWER UTILITY GENERAL NOTES

A. AT AREAS OF CUTTING AND TRENCHING AT EXISTING ASPHALT SURFACES FOR NEW WORK, THE CONTRACTOR SHALL PATCH AND REPAIR DAMAGED ASPHALT TO MATCH EXISTING ADJACENT SURFACES

B. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICT W/ SITE UTILITIES OR FEATURES AND OBTAIN RESOLUTION PRIOR TO PROCEEDING WITH THE WORK

C. CONTRACTOR SHALL COORDINATE SITE ACCESS AND STAGING AREA WITH OWNER/ARCHITECT

D. CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO PROTECT FROM DAMAGING EXISTING UTILITY LINES, WALKS, LANDSCAPING, ETC. WHICH WILL REMAIN AS PART OF THE FINAL SYSTEM. CONTRACTOR SHALL REPAIR AND/OR RESTORE THESE ITEMS AS REQUIRED TO PRE-CONSTRUCTION CONDITION

E. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

F. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ABCWUA PUBLIC WORKS DEPARTMENT ON ANY UTILITY CONSTRUCTION AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

G. CONTRACTOR SHALL ADHERE TO THE N.M.A.P.W.A. (AMERICAN PUBLIC WORKS ASSOCIATION) NEW MEXICO CHAPTER, AND THE SPECIFICATIONS IN THE PROJECT MANUAL UNLESS OTHERWISE STATED FOR WATER AND SANITARY SEWER UTILITY WORK.

H. IF THERE IS A CONFLICT BETWEEN PROPOSED SEWER SERVICE, STORM DRAIN AND WATER SERVICE LINES, THE CONTRACTOR SHALL ADJUST THE WATER SERVICES AS NECESSARY TO COMPLETE THE WORK. 10' MINIMUM SEPARATION BETWEEN THE WATER AND SEWER PIPES.

I. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL IDENTIFY, LOCATE AND REMOVE ALL SUPERFLUOUS UTILITIES AND ASSOCIATED CONDUITS AND APPURTENANCES ACCORDING TO THE INDICATIONS OF THIS DRAWING. REFER TO LEGEND AND DRAWING TO INTERPRET EXTENT OF WORK. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES 48 HOURS BEFORE COMMENCING WORK IN THE AREAS NEAR UNDERGROUND UTILITY LINES. CONTRACTOR SHALL NOT INTERFERE WITH UTILITY LINE OPERATION AND SHALL COORDINATE ALL WORK AFFECTING EXISTING UTILITIES WITH THE APPROPRIATE AUTHORITY FOR EACH UTILITY, AND THE CLIENT SHALL BE PROMPTLY NOTIFIED OF ANY PROBLEMS OR CONFLICTS ANTICIPATED OR ENCOUNTERED.

J. DURING THE CONSTRUCTION OF THIS PROJECT, SOME OVERHEAD AND/OR UNDERGROUND UTILITY ADJUSTMENTS MAY HAVE TO BE ACCOMPLISHED CONCURRENTLY BY THE UTILITY OWNERS (COUNTY AND/OR PRIVATELY OWNED). THE CONTRACTOR SHALL COORDINATE AND ADVISE THE UTILITY OWNERS, ALLOWING ENOUGH TIME SO THAT THE REQUIRED UTILITY ADJUSTMENTS DO NOT IMPEDE THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE SUSTAINED DUE TO ANY INTERFERENCE FROM SAID UTILITY APPURTENANCES.

K. ALL WATER LINE PIPE LESS THAN 4 INCHES SHALL BE SCHEDULE 80 PVC AND ALL PIPES GREATER THAN OR EQUAL TO 4 INCHES SHALL BE C-900 PVC.

L. ALL SANITARY SEWER PIPE SHALL BE SDR-35 PVC.

M. THE CONTRACTOR SHALL COORDINATE WITH ABCWUA PUBLIC WORKS DEPARTMENT FOR ALL NEW UTILITY INSTALLATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL INSTALL ALL UTILITIES IN ACCORDANCE WITH ABCWUA REQUIREMENTS.

N. ALL WATERLINES SHALL BE FLUSHED, DISINFECTED, AND TESTED IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATION. ALL FIRE LINES SHALL BE FLUSHED, DISINFECTED, AND TESTED IN ACCORDANCE WITH THE NFPA CODES AND REGULATIONS.

O. SEE GENERAL NOTES ON SITE UTILITY SHEET.

DRAINAGE REPORT

SITE LOCATION

The existing site is an approximate 0.74-acre parcel located 6110 San Mateo Street NE in Albuquerque. The site is located on the east side of San Mateo Street and can be accessed via San Mateo Boulevard north of Montgomery Boulevard NE (see vicinity map this sheet).

EXISTING CONDITIONS

The existing site is a parcel that is estimated at 0.74-acres and is currently developed with an existing Arby's Restaurant. The parcel is mostly developed with an existing commercial building, driveways and parking lot areas. The site currently slopes from the east to west at a mild slope. The site does not lie within a 100-year FEMA floodplain (see FEMA panel on this sheet).

PROPOSED CONDITIONS

The proposed project will consist of a new commercial building, new driveway entrance locations, and a new asphalt-paved parking lot area. The total area of impervious disturbance for this site is estimated at 0.59 acres. The storm water quality volume for this disturbance area is estimated at 905 cubic feet. An effort has been made to accommodate storm water quality ponds at three locations near the western portion of the site. The total storm water quality pond volume is estimated at 1682 cubic feet. The drainage calculations are indicated on this sheet.

CONCLUSIONS

When fully developed as indicated on the grading and drainage plan, the runoff from the site will increase by an estimated at 0.06 cfs and 0.0005 acre-feet during the 100-year, 24-hour event. Storm water runoff from the site will discharge to its historical location east into San Mateo Street. Three small storm water quality ponds have been provided on site. The storm water quality ponds have an estimated capacity of 1682 cubic feet and will have adequate capacity to retain the storm water quality volume.

GENERAL NOTES:

- EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS WAS PROVIDED BY CSI CARTESIAN SURVEYS, INC. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
- A.C.S. MONUMENT "SMW-12". PUBLISHED ELEVATION OF THE BENCHMARK IS 5242.356 FEET, NAVD 1988 DATUM. CONTOUR INTERVAL IS ONE FOOT.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
- CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- ALL EMBANKMENTS SHALL BE PLACED AND COMPACTED IN LIFTS OF MAXIMUM OF 8". THE EMBANKMENTS SHALL BE WETTED AND COMPACTED TO 95% OPTIMUM DENSITY PER ASTM D1557 AND 95% UNDER ALL STRUCTURES INCLUDING DRIVEWAYS AND PARKING LOTS.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE STORM DRAINAGE REGULATIONS. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE "GRADING AND DRAINAGE DESIGN REQUIREMENTS AND POLICIES FOR LAND DEVELOPMENT."
- THE OWNER, CONTRACTOR AND/OR BUILDER SHALL COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
- THE CONTRACTOR SHALL TAKE ALL APPROPRIATE AND REASONABLE MEASURES TO PREVENT SEDIMENT OR POLLUTANT LADEN STORM WATER FROM EXITING THE SITE DURING CONSTRUCTION. STORMWATER MAY BE DISCHARGED IN A MANNER, WHICH COMPLIES WITH THE APPROVED GRADING AND DRAINAGE PLAN.
- THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO PREVENT THE MOVEMENT OF CONSTRUCTION RELATED SEDIMENT, DUST, MUD, POLLUTANTS, DEBRIS, WASTE, ETC FROM THE SITE BY WIND, STORM FLOW OR ANY OTHER METHOD EXCLUDING THE INTENTIONAL, LEGAL TRANSPORTATION OF SAME IN A MANNER ACCEPTABLE BY THE CITY.
- THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE AREAS SHOWN AS "SLOPE LIMITS" ON THE GRADING AND DRAINAGE PLAN.
- SEE ARCHITECTURAL DRAWINGS FOR SIDEWALK AND HANDICAPPED RAMPS, DETAILS AROUND THE BUILDING.
- THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE PLAN.
- THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%. ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5.0%. AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 15:1.
- ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.
- THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS (UPDATE 8, AMENDMENT 1)
- ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.

HYDROLOGY CALCULATIONS

HYDROLOGY

Precipitation Zone 3 - 100-year Storm		P(360) = 2.6 in				P(1440) = 3.1 in			
Basin	Basin Area (Ac)	A	B	C	D	Ew (in)	V(100-6) (af)	V(100-24) (af)	Q(100) (cfs)
Existing Conditions									
Site	0.74	0.00	0.00	0.19	0.55	2.09	0.129	0.152	3.42
Total	0.74								3.42
Proposed Conditions									
Site	0.74	0.00	0.00	0.15	0.59	2.14	0.132	0.157	3.48
Total	0.74								3.48

WATER HARVEST AREA

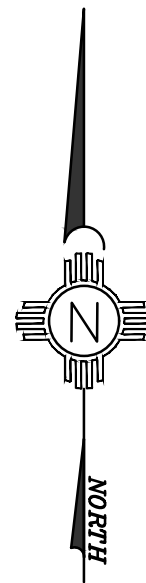
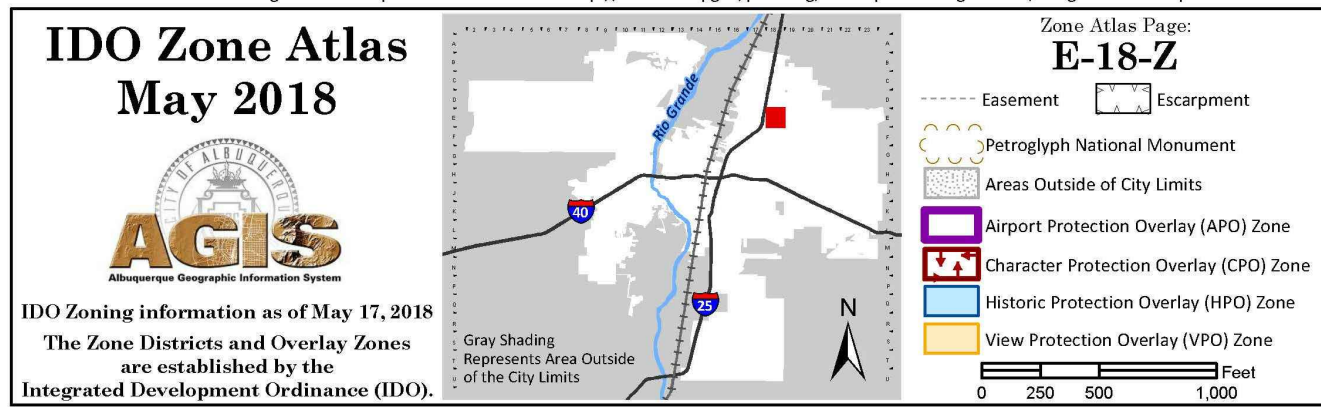
WHA #1 NORTH			
Pond Rating Table			
Side Slope 2:1			
Elev. (ft)	Area (sq ft)	Volume (cf)	Cum Volume (cf)
9	144	0	0
10	260	202	202
11	420	340	542

WHA #2 SOUTH			
Pond Rating Table			
Side Slope 2:1			
Elev. (ft)	Area (sq ft)	Volume (cf)	Cum Volume (cf)
9	224	0	0
10	396	310	310
11	600	498	808

WHA #3 EAST			
Pond Rating Table			
Side Slope 2:1			
Elev. (ft)	Area (sq ft)	Volume (cf)	Cum Volume (cf)
11	300	0	0
12	363	332	332

STORM WATER QUALITY CALCULATIONS

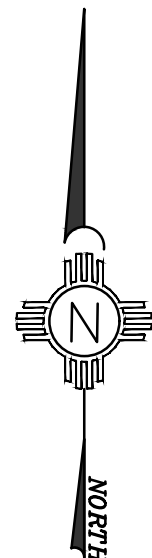
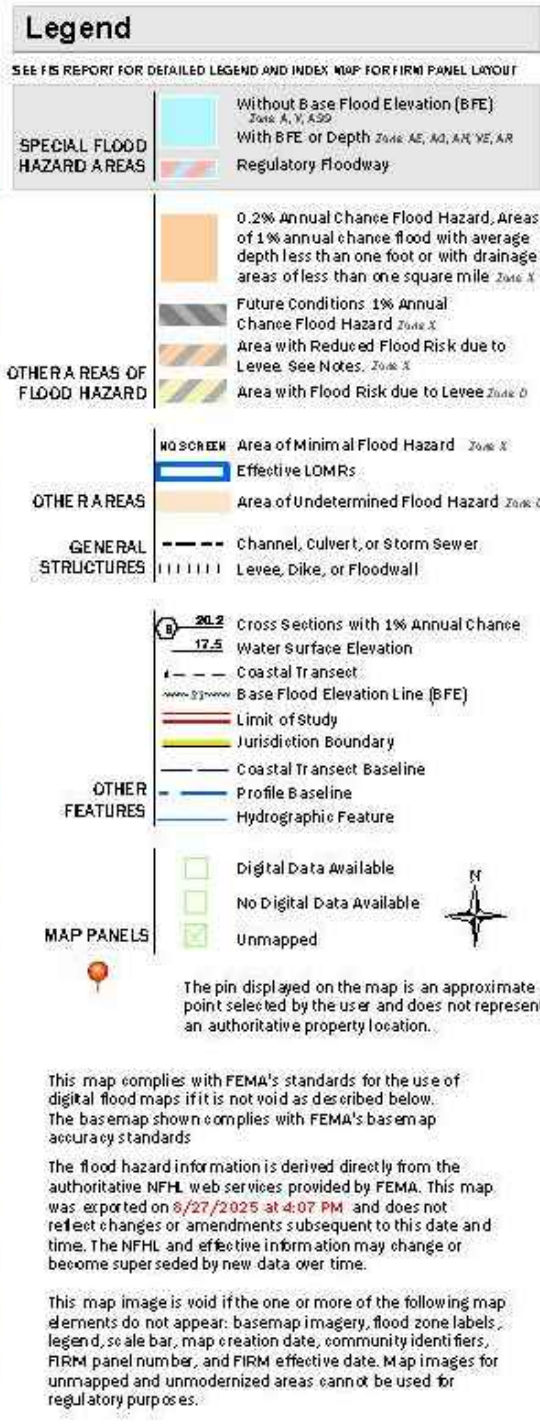
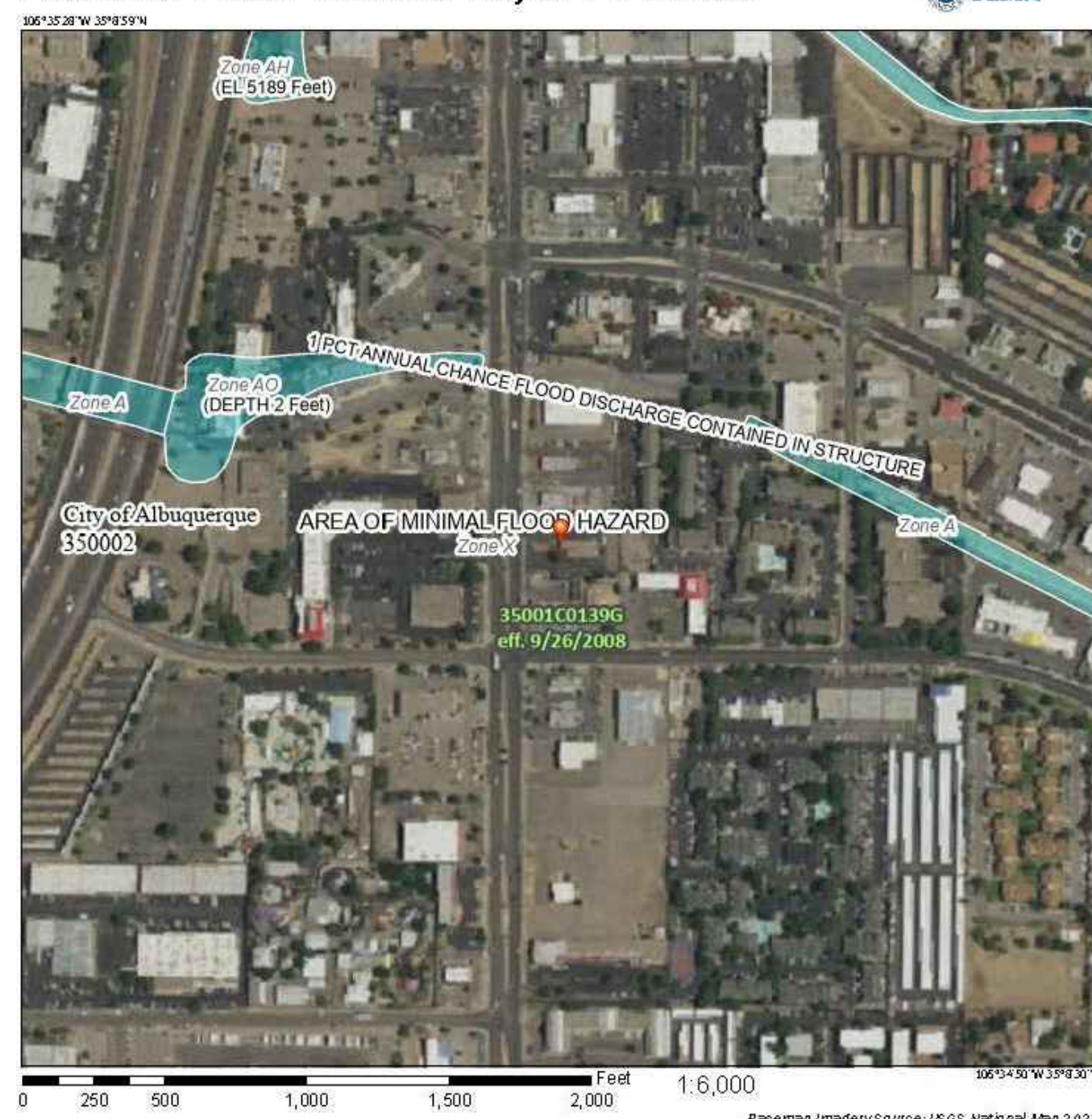
$$SWQV = (25,865 * 0.42" / 12 SF) = 905 \text{ CUBIC FEET}$$



D4 VICINITY MAP

SCALE: NOT TO SCALE

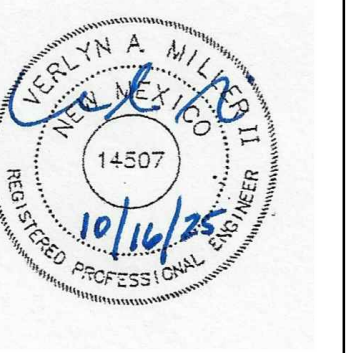
National Flood Hazard Layer FIRMette



D4 FLOOD ZONE MAP

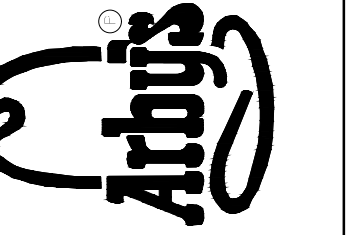
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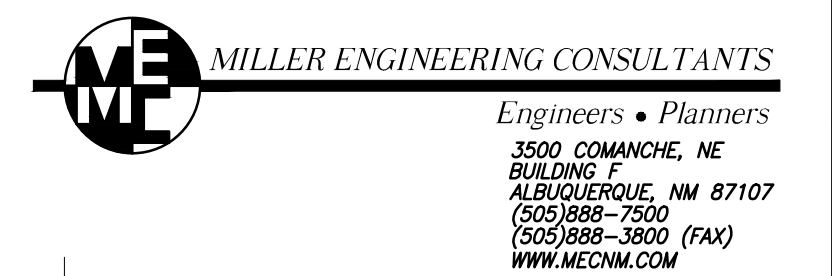
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Checked by: VAM

Issue Date:
October 16, 2025

Issue/Revision:	Date:

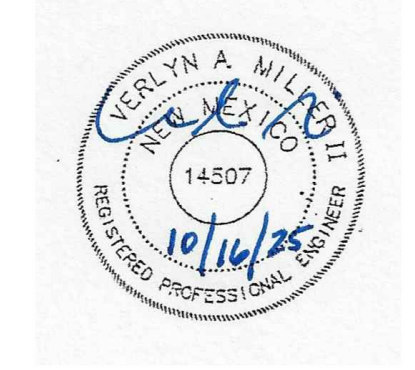
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HYDROLOGY
PLAN

Sheet No.
C-100



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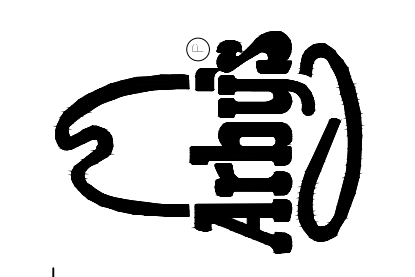
- 38.00
FG PROPOSED SPOT ELEVATIONS (FINISHED GRADE)
- MATCH
(95.19) MATCH EXISTING ELEVATIONS
- TOC TOP OF CONCRETE
- FL FLOW LINE, CURB
- INV INVERT
- FG FINISH GRADE
- TBC TOP OF BASE COURSE
- TC TOP OF CURB
- TG TOP OF GRATE
- TA TOP OF ASPHALT
- ▶ FLOW ARROW
- FV FIELD VERIFY
- ~ GRADE BREAK-HIGH POINT
- SWALE
- SD— STORM DRAIN LINE
- 5895— PROPOSED MAJOR CONTOUR
- 5895--- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- ▶ TOP OF CUT SLOPE



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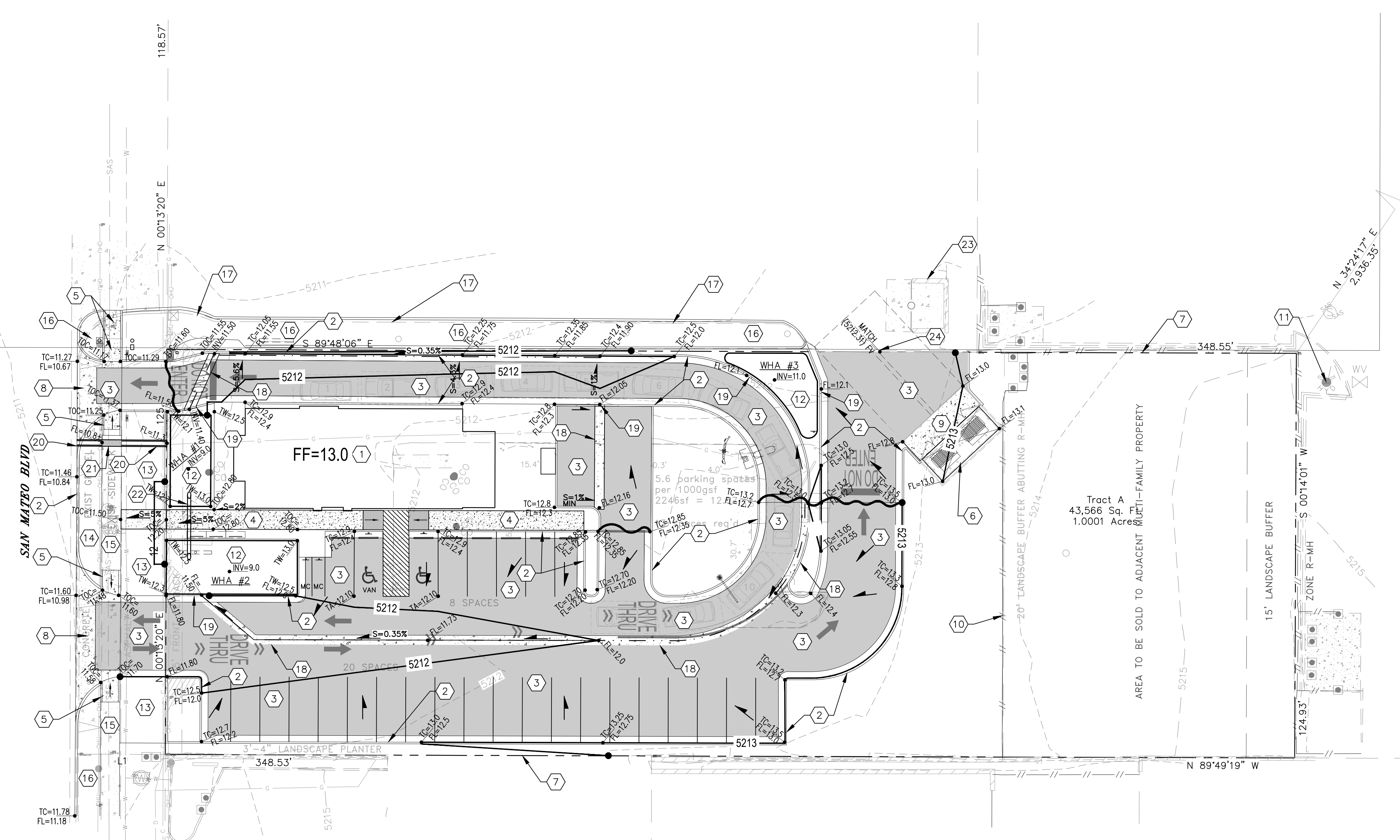
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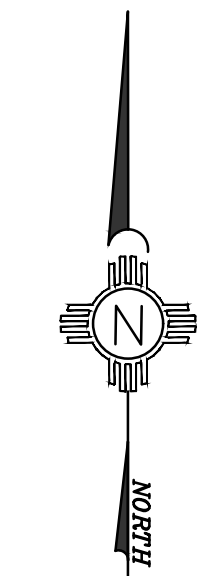
ARBY'S RESTAURANT
22 SEAT NARROW
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ALBUQUERQUE, NEW MEXICO

KEYED NOTES

1. NEW BUILDING SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
2. NEW CURB AND GUTTER. SEE DETAIL SHEET C-501.
3. NEW HOT MIX ASPHALT PAVING (HMA). SEE GEOTECHNICAL REPORT. SEE DETAIL SHEET C-501.
4. NEW SIDEWALK/FLATWORK, SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
5. NEW CONCRETE SIDEWALK. PER CITY OF ALBUQUERQUE DETAIL #2430. SAWCUT AND MATCH ELEVATIONS OF EXISTING SIDEWALK AS REQUIRED.
6. NEW TRASH ENCLOSURE, SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
7. APPROXIMATE LOCATION OF PROPERTY LINE.
8. NEW CONCRETE DRIVEWAYS. PER CITY OF ALBUQUERQUE DETAIL #2420 AND #2426.
9. NEW CONCRETE DRIVE PAD. SEE DETAIL SHEET C-501.
10. EXISTING FENCE TO REMAIN. EAST PROPERTY BOUNDARY FOR THIS ANALYSIS.
11. EXISTING FIRE HYDRANT TO REMAIN.
12. NEW WATER HARVEST AREAS. SEE DETAIL SHEET C-501.
13. NEW GRAVEL LANDSCAPING. SEE DETAIL SHEET C-501.
14. EXISTING GRAVEL AREA TO REMAIN.
15. EXISTING SIDEWALK TO REMAIN.
16. EXISTING GRASS AREAS TO REMAIN.
17. EXISTING CURB AND GUTTER TO REMAIN.
18. NEW 3' WIDE CONCRETE VALLEY GUTTER. SEE DETAIL SHEET C-501.
19. NEW 3' WIDE CURB CUT.
20. 24" CONCRETE CHANNEL SEE DETAIL SHEET C-501.
21. 24" SIDEWALK CULVERT SEE DETAIL SHEET C-502.
22. NEW 12" DIAMETER CMP PIPE, INV.=9.0
23. EXISTING TRASH ENCLOSURE TO REMAIN.
24. MATCH EXISTING ELEVATION AT PROPERTY LINE.



A1 GRADING AND DRAINAGE PLAN
SCALE: 1" = 20'



SCALE: 1" = 20'
CONTOUR INTERVAL = 1'

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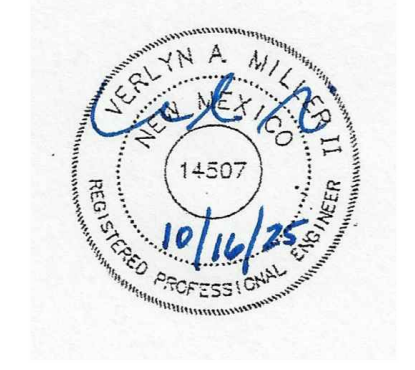
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GRADING AND DRAINAGE PLAN

Sheet No.
C-101

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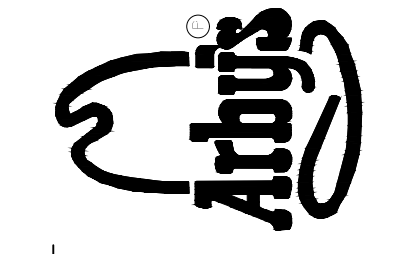
- W — PROPOSED WATER SERVICE LINE
- SAS — PROPOSED SANITARY SEWER LINE
- - - W - - - EXISTING WATER SERVICE LINE
- - - S - - - EXISTING SANITARY SEWER LINE
- PROPOSED CLEANOUT
- M PROPOSED WATER METER
- PROPOSED FIRE HYDRANT
- PROPOSED MANHOLE
- ⊗ EXISTING FIRE HYDRANT
- ⊗ EXISTING SEWER MANHOLE
- ⊕ PROPOSED FDC
- ⊗ PROPOSED PIV

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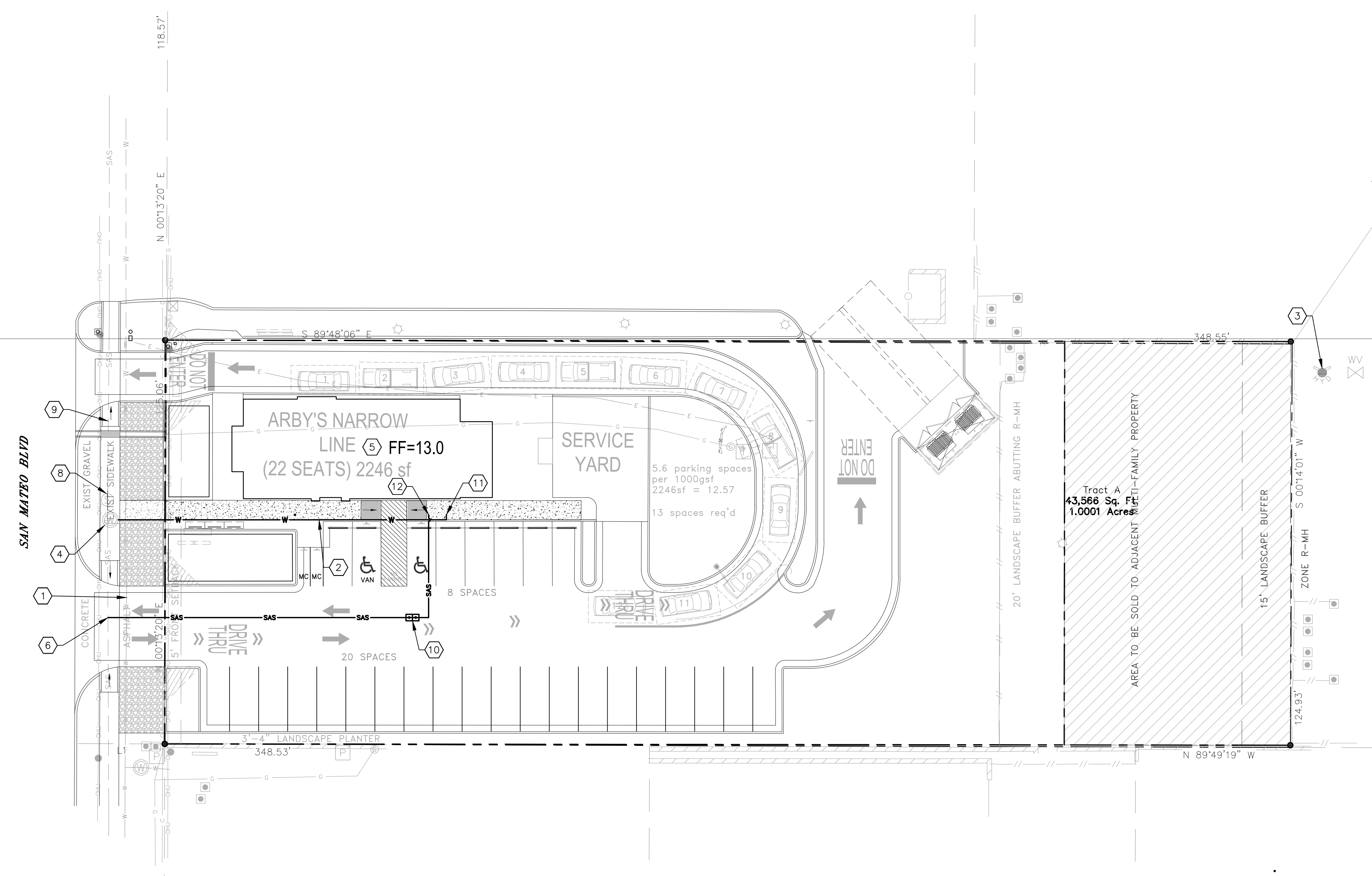
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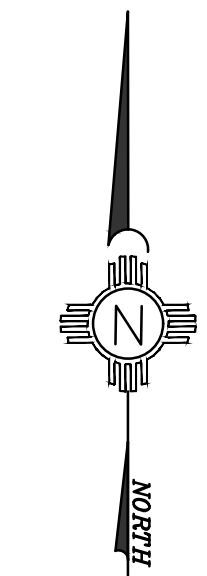
ARBY'S RESTAURANT
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 ALBUQUERQUE, NEW MEXICO

KEYED NOTES:

- 1 EXISTING 16" CI WATER MAIN TO REMAIN.
- 2 NEW 2" DOMESTIC WATER SERVICE LINE. 36" MINIMUM BURY.
- 3 EXISTING FIRE HYDRANTS TO REMAIN.
- 4 EXISTING WATER 3" METER. CONTRACTOR TO FIELD VERIFY METER SIZE PRIOR TO CONSTRUCTION. CONNECT NEW 2" DOMESTIC WATER SERVICE LINE TO METER WITH APPROPRIATE REDUCER.
- 5 NEW BUILDING. SEE ARCHITECTURAL PLANS FOR DETAILS.
- 6 CONTRACTOR TO LOCATE EXISTING SEWER SERVICE LINE AND CONNECT NEW 4" SANITARY SERVICE LINE. MAINTAIN MINIMUM S=2% FROM TIE TO BUILDING.
- 7 NOT USED.
- 8 EXISTING SAS MANHOLE. RIM ELEV.=5211.6, INV. ELEV.=5201.6
- 9 EXISTING 8" VCP SEWER MAIN TO REMAIN.
- 10 NEW DOUBLE SEWER CLEAN-OUT. SEE DETAIL SHEET C-501.
- 11 CONNECT NEW 2" DOMESTIC WATER SERVICE LINE TO BUILDING. SEE PLUMBING SHEET P-201 FOR CONTINUATION.
- 12 CONNECT NEW 4" SANITARY SERVICE LINE TO BUILDING. SEE PLUMBING SHEET P-101 FOR CONTINUATION.



A1 SITE UTILITY PLAN
SCALE: 1" = 20'



SCALE: 1" = 20'
CONTOUR INTERVAL = 1'

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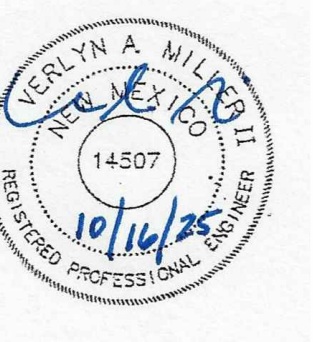
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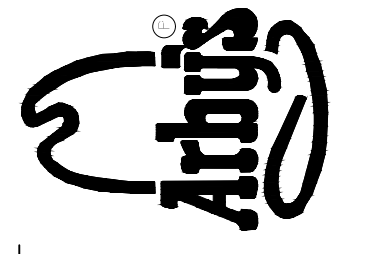
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C-102



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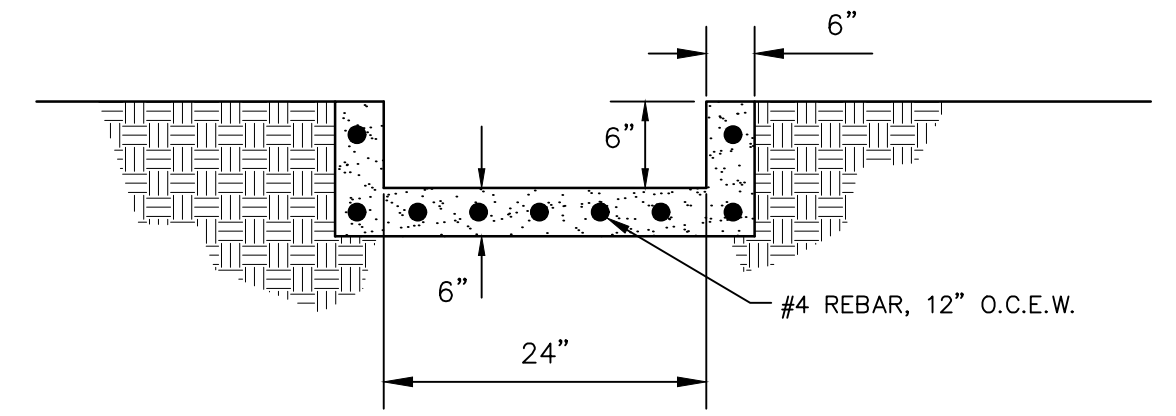
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MISCELLANEOUS
DETAILS

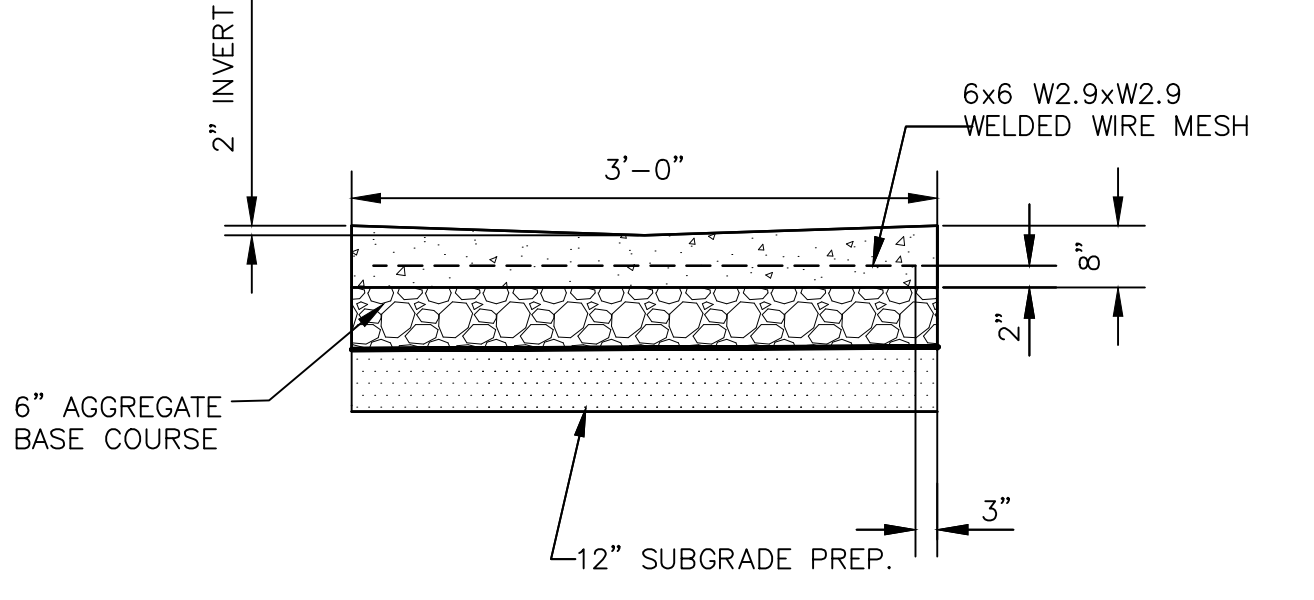
Sheet No.
C-501

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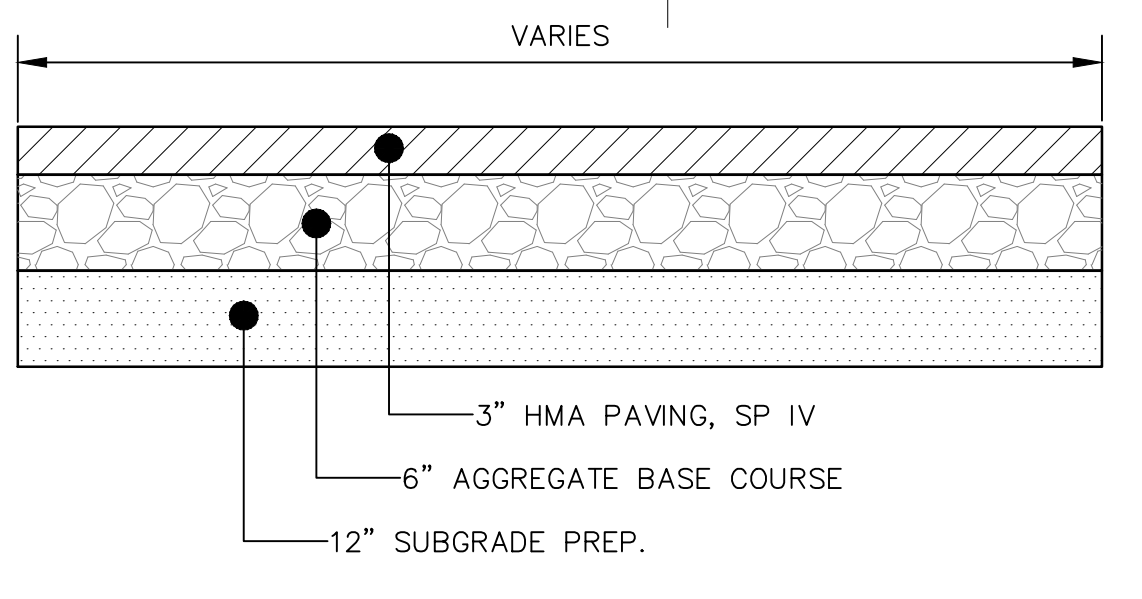
F6 CONCRETE CHANNEL DETAIL
SCALE: NOT TO SCALE



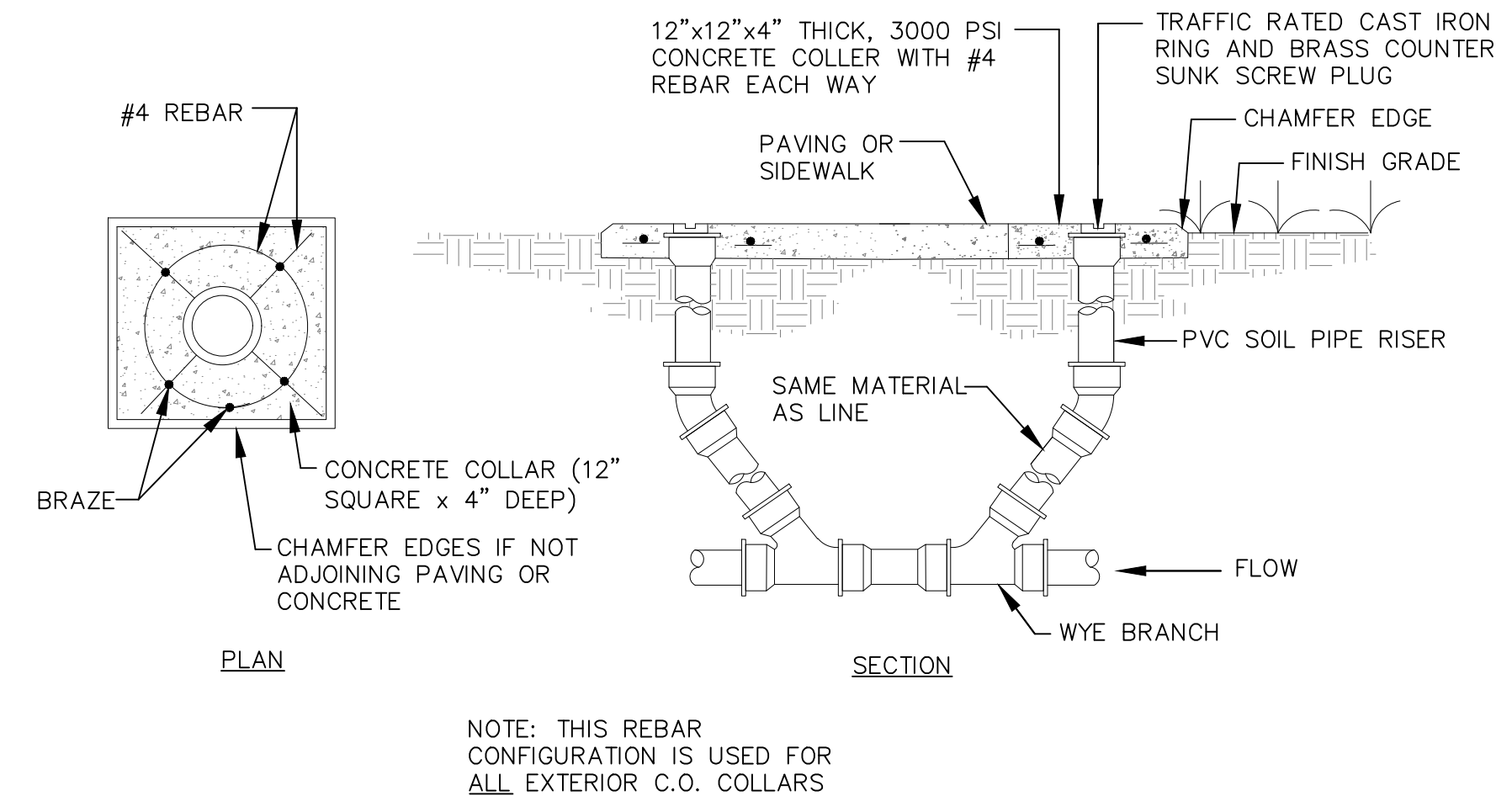
F4 CONCRETE VALLEY GUTTER DETAIL
SCALE: NONE



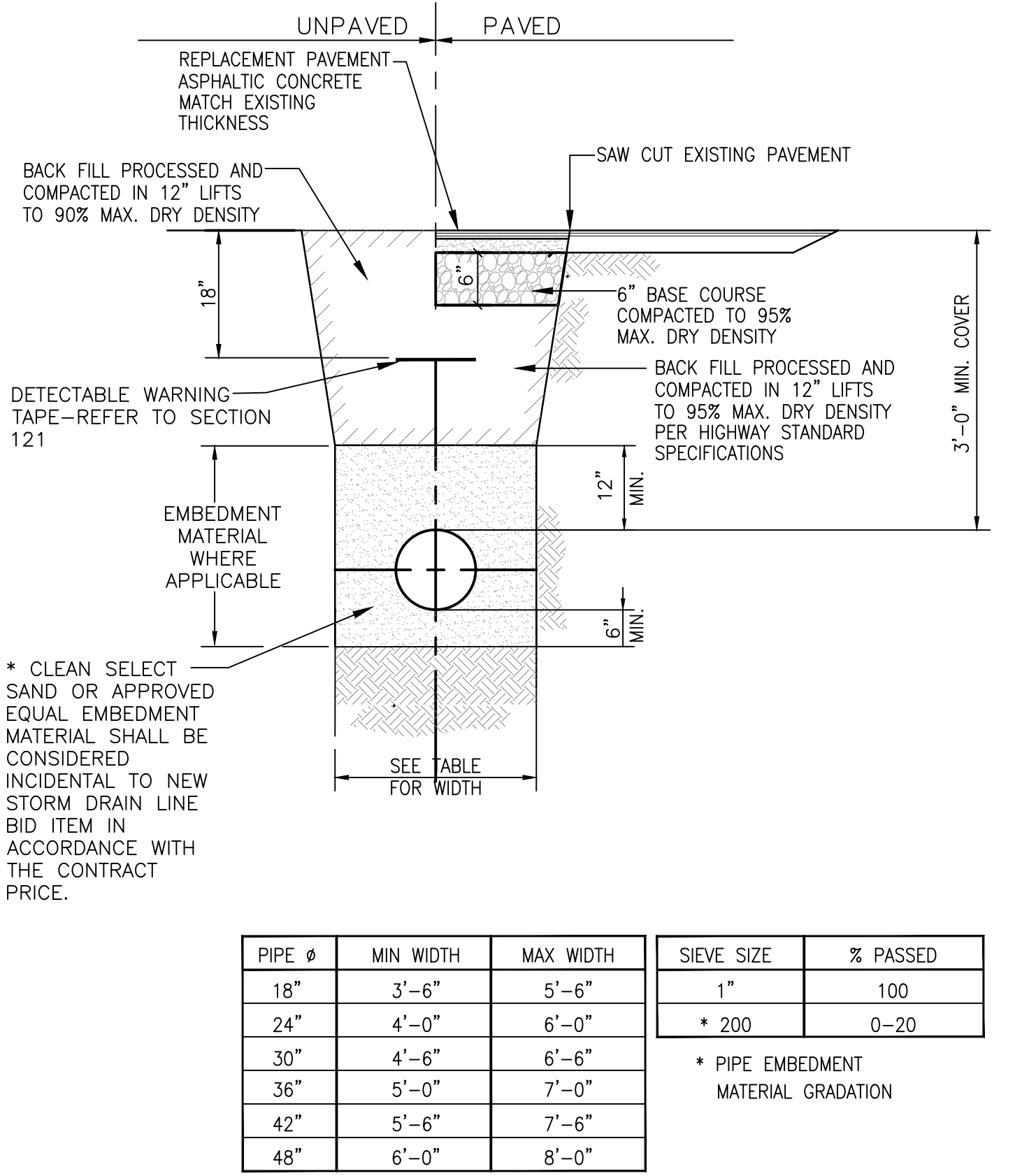
F1 LIGHT DUTY ASPHALT PAVING DETAIL
SCALE: NOT TO SCALE



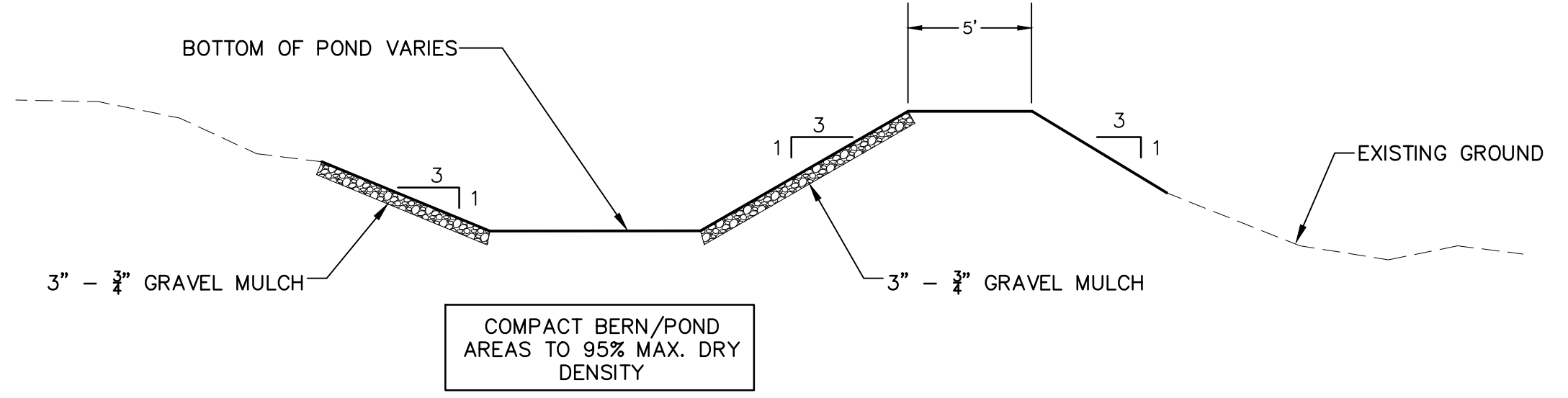
C6 TYPICAL DOUBLE CLEANOUT TO GRADE DETAIL
SCALE: NOT TO SCALE



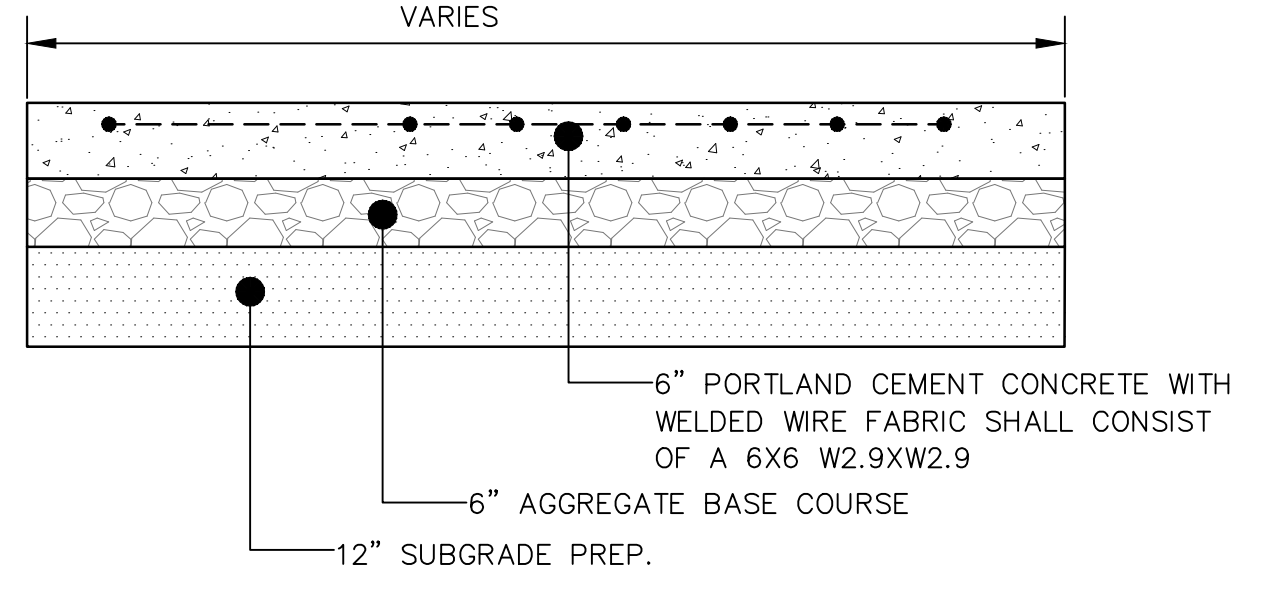
C4 TYPICAL TRENCH SECTION
SCALE: NONE



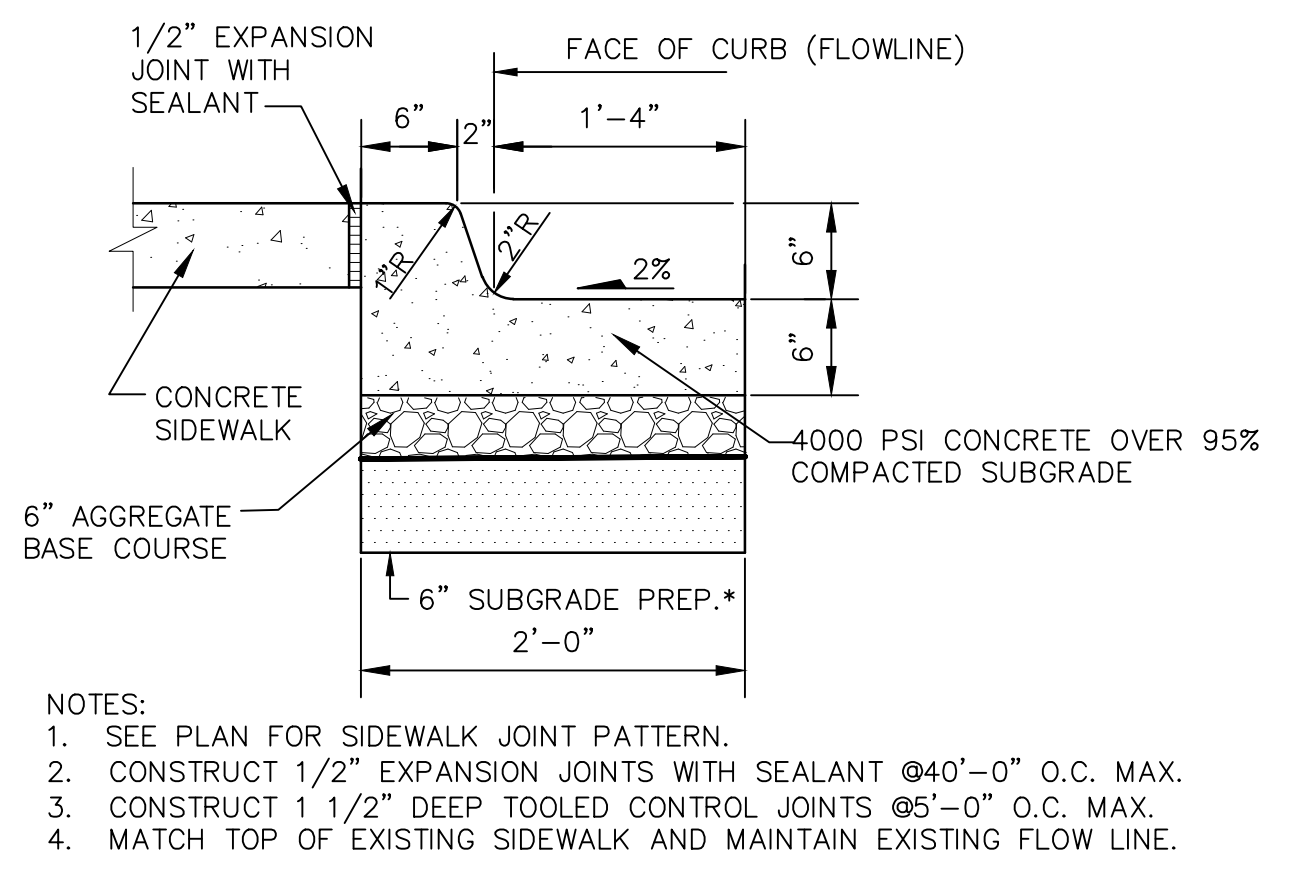
A2 TYPICAL WATER HARVEST AREA SECTION - WHA # 3
SCALE: NOT TO SCALE



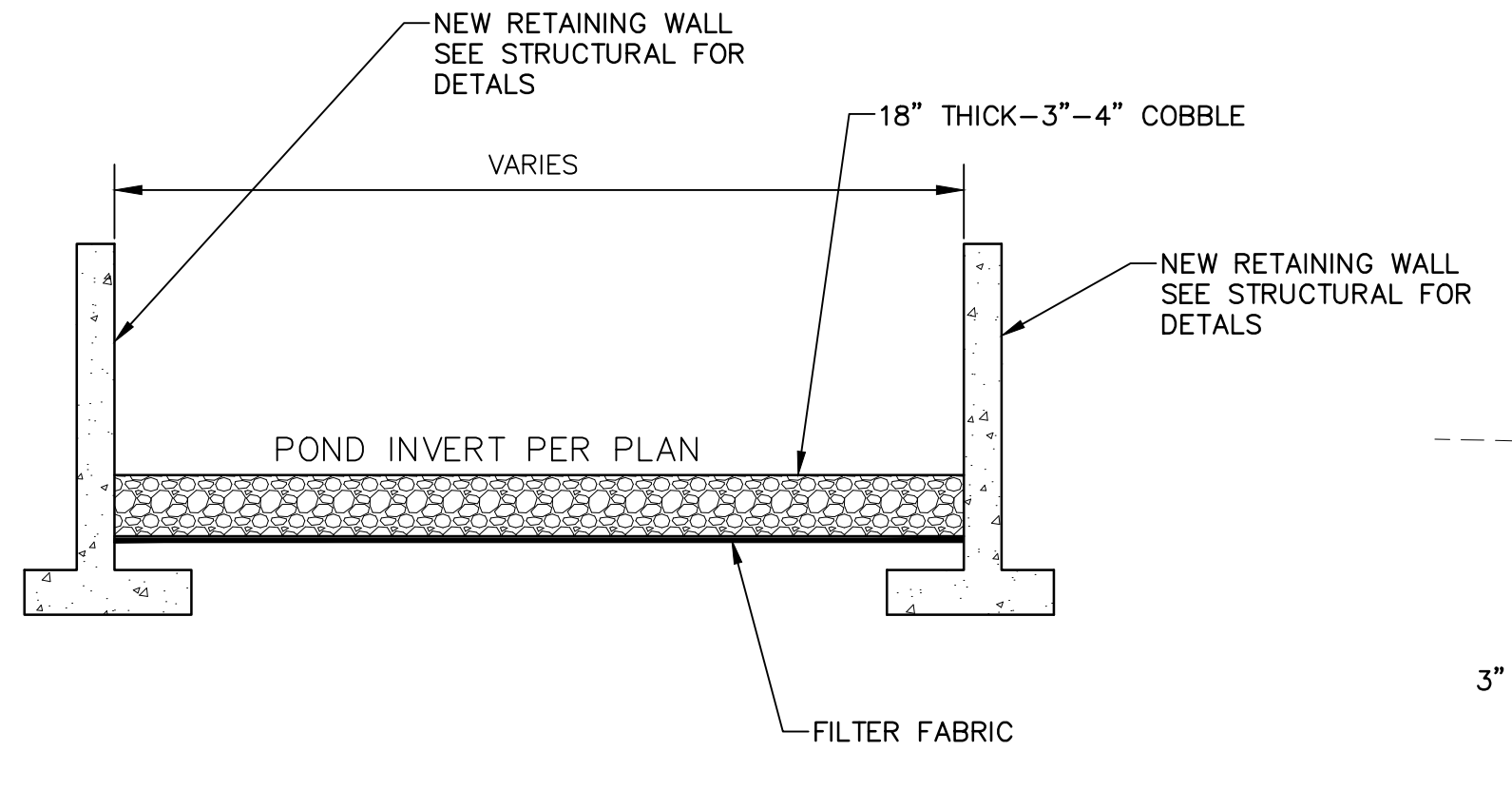
D1 HEAVY DUTY CONCRETE PAVING SECTION
SCALE: NOT TO SCALE

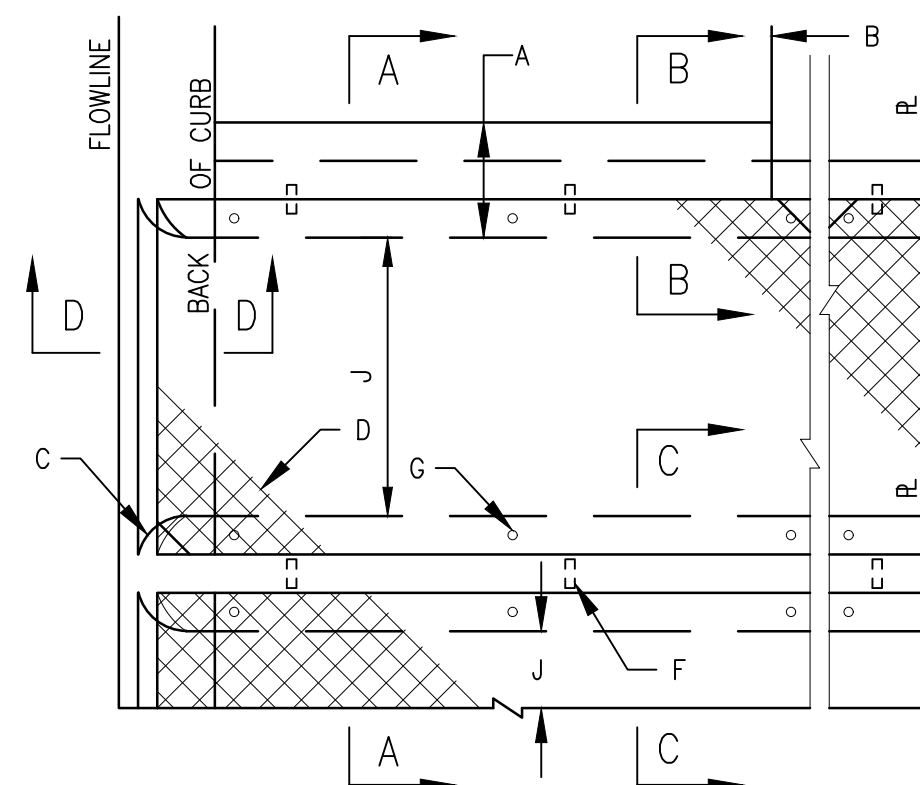


C1 TYPICAL CURB AND GUTTER SECTION
SCALE: NOT TO SCALE

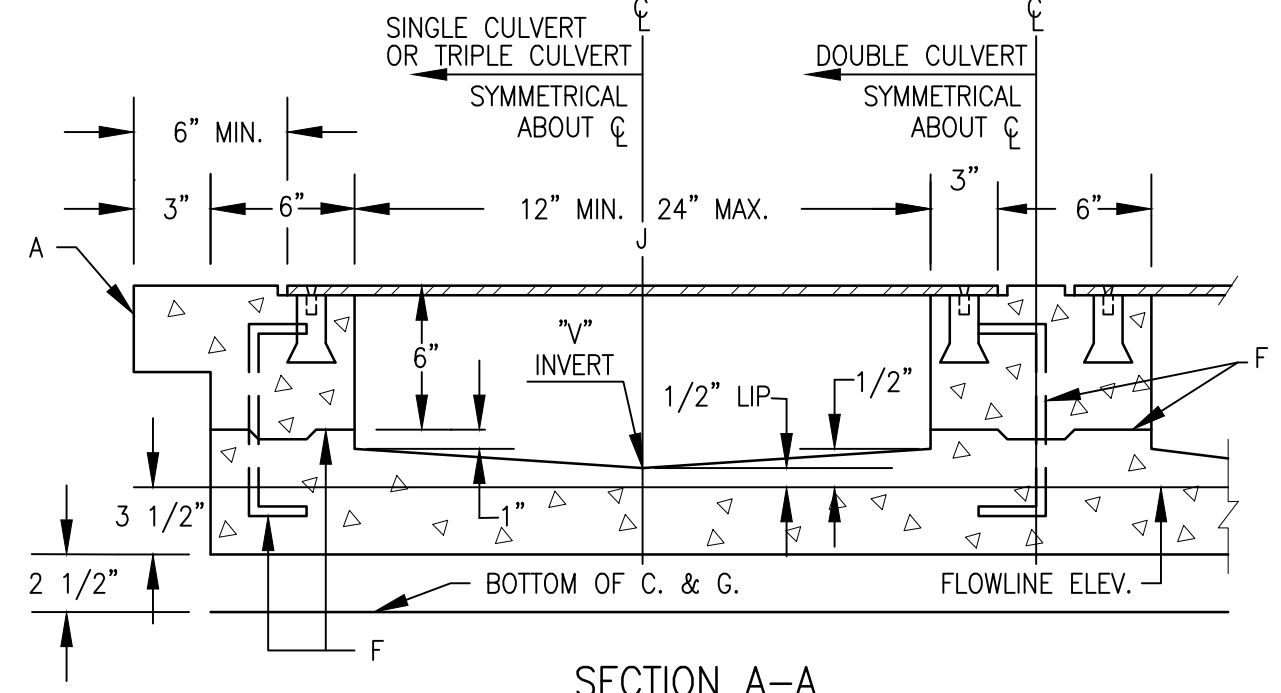


A2 WHA SECTION - SEE WHA #1 AND WHA #2
SCALE: NOT TO SCALE

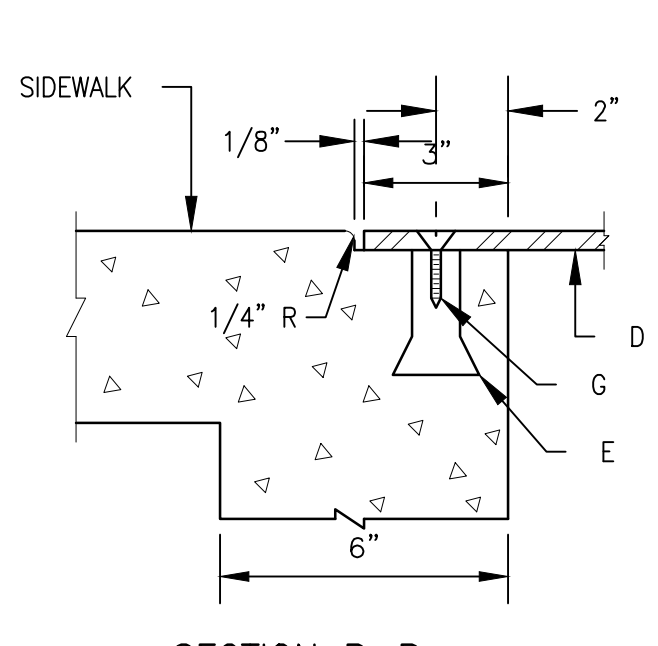




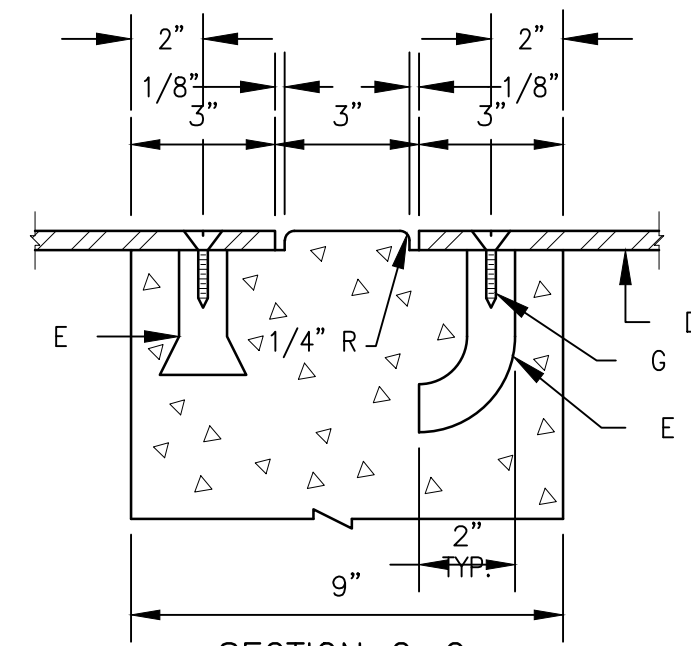
PLAN
SINGLE AND OR MULTIPLE CULVERT



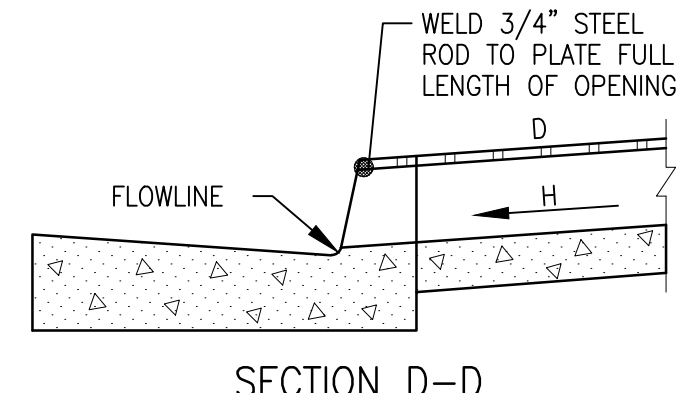
SECTION A-A



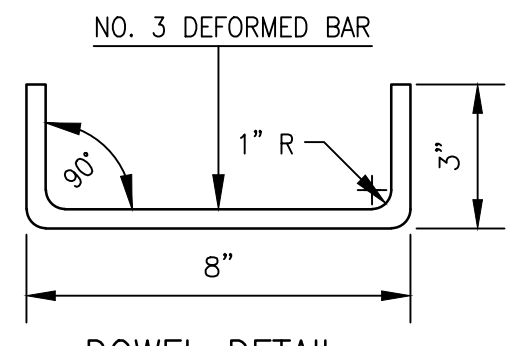
SECTION B-B



SECTION C-C



SECTION D-D



DOWEL DETAIL

GENERAL NOTES:

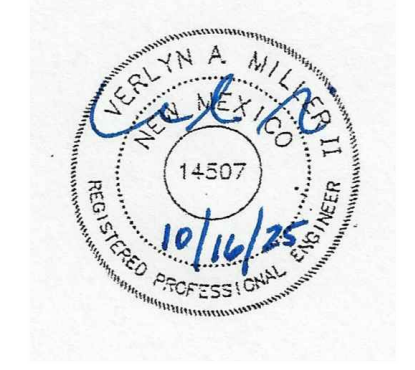
1. PLACING OF DRAIN THRU EXIST. SIDEWALK AND CURB & GUTTER REQUIRES THAT ENTIRE SIDEWALK AND C & G STONES BE REMOVED AND REPLACED AS DETAILED HEREIN.
2. BOTTOM SLAB OF CULVERT SHALL BE POURED MONOLITHICALLY WITH NEW GUTTER.
3. THE INVERT SHALL BE TROWELED TO PRODUCE A HARD POLISHED SURFACE OF MAX. DENSITY AND SMOOTHNESS. INVERT SHALL BE V-SHAPED TO WITHIN 3" OF OUTLET, THEN WARPED TO PARALLEL FLOWLINE AT OUTLET, UNLESS OTHERWISE SHOWN.
4. ALL EXPOSED CONC. SURFACE SHALL MATCH GRADE, COLOR, FINISH AND SCORING OF ADJACENT CURB AND SIDEWALK.
5. SIDEWALK REPLACED DURING CONSTRUCTION SHALL BE POURED MONOLITHICALLY WITH CULVERT WALLS.
6. IF ROD ANCHORS ARE USED, DRILL & TAP FOR F.H. MACHINE SCREW. ATTACH ANCHORS TO PLATE AND SECURE PLATE IN PLACE PRIOR TO POURING OF WALLS.
7. LENGTH OF EACH PLATE SHALL BE SUCH THAT THE WEIGHT WILL NOT EXCEED 300 LBS. AND SHALL BE STRESS RELIEVED AFTER FABRICATION. CLEAN SURFACE OF PLATE AND FRAMING MEMBERS AND PAINT W/ ONE SHOP COAT RED OXIDE AND TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
8. THE CITY WILL NOT ASSUME RESPONSIBILITY FOR MAINTENANCE OF ANY SIDEWALK CULVERT INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.

SIDEWALK CULVERT CONSTRUCTION NOTES:

- A. MATCH NEAREST CONTROL JOINT, INSTALL 1/2" EXPANSION JOINT.
- B. EDGE OF SIDEWALK OR SETBACK (VARIABLE).
- C. 3" RADIUS (TYPICAL).
- D. 3/8" CHECKERED STEEL PLATE (PRINT PER NOTE 7, ABOVE. FOR SECURING PLATE USE 1" x 5" S.S. ROD ANCHOR, "RED HEAD MULTI-SEE II SRM-38 ANCHOR" OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS AT MAX. 24" O.C., A MINIMUM OF 2 PER SIDE AND ONE WITH 6" OF EACH END.
- E. CONSTRUCTION JOINT IS OPTIONAL. IF USED, SPACE DOWELS AT 18" O.C. MAX., 1/2" MINIMUM FROM FACE OF CONCRETE
- F. 3/8" - 16 X 1 1/2" COUNTERSUNK, F.H., STAINLESS STEEL MACHINE SCREW.
- G. SLOPE 1/4" PER FT. MIN
- H. DRAIN WIDTH PER PLAN (12", MIN., 24" MAX.).

D1 SIDEWALK CULVERT DETAIL

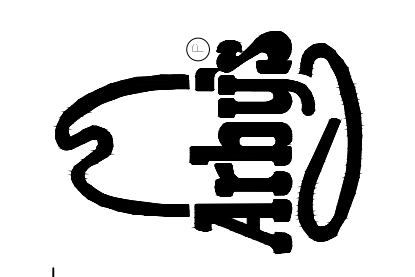
SCALE: NOT TO SCALE



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Project No. 25-011
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DETAILS

Sheet No.
C-502

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