

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

June 20, 2018

John Jacquez, E.I.
Miller Engineering Consultants, Inc
3500 Comanche NE Bldg. F
Albuquerque, NM, 87107

**RE: North Domingo BACA Multigenerational Center – Phase III
Grading and Drainage Plan
Engineer's Stamp Date: 05/17/18
Hydrology File: C19D043A**

Dear Mr. Jacquez:

PO Box 1293

Based upon the information provided in your resubmittal received 05/22/2018, the Grading and Drainage Plan is approved for Building Permit and Grading Permit.

Albuquerque

Please attach a copy of this approved plan in the construction sets for Building Permit processing. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

NM 87103

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

www.cabq.gov

Sincerely,

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



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: NORTH DOMINGO BACA MULTIGENERATIONAL CENTER-PHASE III Building Permit #: _____ City Drainage #: _____
DRB#: _____ EPC#: _____ Work Order#: _____
Legal Description: PORTIONS OF TRACT A, NORTH DOMINGO BACA PARK, BERNALILLO CITY BOOK 3006C
City Address: 7521 CARMEL AVE. NE, ALBUQUERQUE, NM 87113 PAGE 125, Doc # 2006055834
Engineering Firm: MILLER ENGINEERING CONSULTANTS, INC. Contact: VERLYN A. MILLER
Address: 3500 COMANCHE NE, BLDG. F, ALBUQUERQUE, NM 87107
Phone#: 505-888-7500 Fax#: 505-888-3800 E-mail: VMILLER@MEC4NM.COM
Owner: CITY OF ALBUQUERQUE / CITY-COUNTY BLDG, 11TH FLOOR Contact: _____
Address: 1 CIVIC PLAZA NW, ALBUQUERQUE, NM 87102
Phone#: 505-768-3000 Fax#: 505-768-3019 E-mail: _____
Architect: VIGIL & ASSOCIATES Contact: DAVID MADDEN
Address: 44TH IRVING, NW, SUITE A, ALBUQUERQUE, NM 87114
Phone#: 505-890-5030 Fax#: 505-890-5031 E-mail: DAVE@VA-ARCHITECTS.COM
Other Contact: _____ Contact: _____
Address: _____ Contact: _____
Phone#: _____ Fax#: _____ E-mail: _____

Check all that Apply:

DEPARTMENT:

- ☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ ARCHITECT CERTIFICATION
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ OTHER (SPECIFY) _____

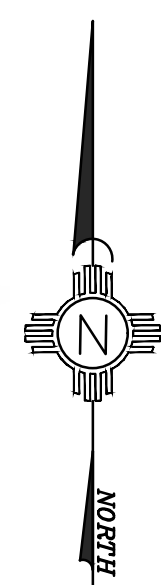
IS THIS A RESUBMITTAL?: Yes ☐ No ☒

DATE SUBMITTED: 5/22/18 By: [Signature]

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY
☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
☐ FINAL PLAT 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
☐ PRE-DESIGN MEETING
☐ OTHER (SPECIFY) _____



AT THE MEETING MENTIONED PREVIOUSLY, IT WAS ALSO DETERMINED THAT THE FIRST FLUSH FOR THE ENTIRE NEW PARKING AREA WOULD NEED TO BE CONTAINED WITHIN THE WATER HARVEST AREA LOCATED NORTHEAST OF THE ENTRANCE TO THE SITE AND CARMEL AVE. THE NEW WATER HARVEST AREA ONSITE WILL BE USED TO MANAGE THE FIRST FLUSH AS REQUIRED BY THE RECENT CITY OF ALBUQUERQUE DRAINAGE ORDINANCE CHANGES FOR THE PARKING LOT BASIN. THE VOLUME OF THE FIRST FLUSH FOR THE NEW PARKING AREA WAS $(0.44 - 0.1)$ INCHES * IMPERVIOUS AREA) = 505 CF. THE WATER HARVEST AREA VOLUME = 697 CF > 505 CF. THEREFORE THE NEW WATER HARVEST AREA MANAGES THE FIRST FLUSH. (SEE CALCULATIONS BELOW)

11. THE OWNER, CONTRACTOR AND/OR BUILDER SHALL COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
12. 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.
13. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO PREVENT THE MOVEMENT OF CONSTRUCTION RELATED SEDIMENT, JUST AS WELL AS OILS, GREASE, 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.
14. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE AREA SHOWN AS "SLOPE LIMITS" ON THE GRADING AND DRAINAGE PLAN.

SPECIAL ORDER 19
DRAINAGE FACILITIES WITHIN THE CITY
RIGHT-OF-WAY NOTICE TO CONTRACTOR

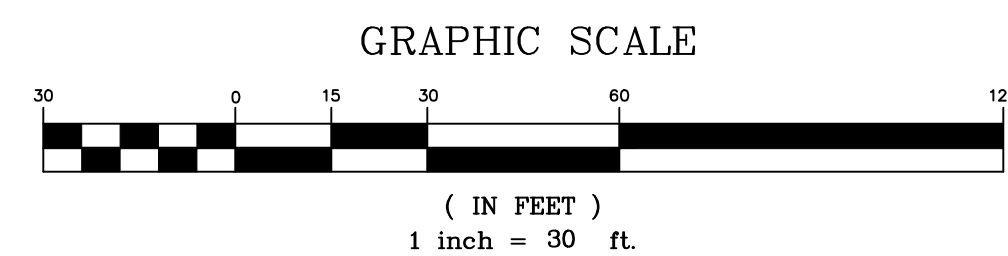
- 1) AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- 2) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HERON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, CONSTRUCTION, VOLUME 5, 2011 EDITION, PLATE NO. 8, AND VOLUME 1, 1986, UPDATE # 5, AND 1986 EDITION AS REVISED THROUGH UPDATE #7 AMENDMENT 1.
- 3) TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- 4) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 5) BACK FILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
- 6) THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY BEING SERVED.
- 7) WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24 - HOUR BASIS.

per COA HYDROLOGY STAFF-ENTIRE BUILDING AREA
FIRST FLUSH REQUIREMENT TO BE CONTAINED IN
EXISTING 10000 GALLON CISTERN.
BLDG AREA=36886 SF. REQ'D V=1045 CF.
10000 GALLON=1337 CF THEREFORE OK.

[illegible]

Drawing Title			
HYDROLOGY INFORMATION SHEET			
City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
		03/18/2016	04/02/2018
		04/08/2016	
		07/08/2016	
		08/29/2016	
		12/16/2016	
City Project No.	7136.95	Zone Map No.	C-19-Z
Sheet		C-100	

SCALE: 1" = 30'



1. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OR EXISTING UTILITIES.
2. BACKFILL AND COMPACTION FOR SITEWORK SHALL BE ACCORDING TO THE GEOTECHNICAL REPORT FOR THE PROJECT.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.
4. NOT USED
5. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
6. ALL DISTURBED AREAS SHALL RECEIVE LANDSCAPE FABRIC WITH SEEDING, SEE SPECIFICATIONS FOR DETAILS.
7. CONTRACTOR SHALL FIELD VERIFY THE FINISH FLOOR ELEVATIONS ON THE EXISTING BUILDINGS AND NOTIFY THE PROJECT ENGINEER OR ANY DISCREPANCY PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER IF THERE IS A CONFLICT BETWEEN THE STORM DRAIN LINES AND EXISTING UTILITIES, SO THAT THE PROPER REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION.
9. FOR ALL STORM DRAIN SYSTEM INFORMATION SEE SHEET C-102.
10. FOR ADDITIONAL SITE KEYNOTES AND SPOT ELEVATIONS SEE SHT. 103 AND C101.

	GAS METER	
	GAS VALVE	
	TELEPHONE CABINET	
	TELEPHONE MANHOLE	
	CABLE MANHOLE	
	CABLE CABINET	
	WATER VALVE	
	WATER METER	
	FIRE HYDRANT	
	WELL HEAD	
	WATER MANHOLE	
	FLAGPOLE	
	ROOF DRAIN	
	MAILBOX	
	SANITARY SEWER MANHOLE	
	SAS CLEANOUT	DECIDUOUS TREE
	SPRINKLER	
	IRRIGATION BOX	SHRUB
	STORM DRAIN MANHOLE	
	STORM DRAIN INLET	
	IRRIGATION VALVE	
	SIGN	
	CURB CUT/INDICATION OF ACCESS TO ROADWAY	
	CRAWL SPACE	
5075.50	SPOT ELEVATION	
BC 5075.50	BACK OF CURB ELEVATION	
FL 5075.50	FLOW LINE ELEVATION	
EP 5075.50	EDGE OF PAVEMENT ELEVATION	
TA 5075.50	TOP OF ASPHALT ELEVATION	
TC 5075.50	TOP OF CONCRETE ELEVATION	
TW 5075.50	ELEVATION ON HIGH SIDE OF WALL	

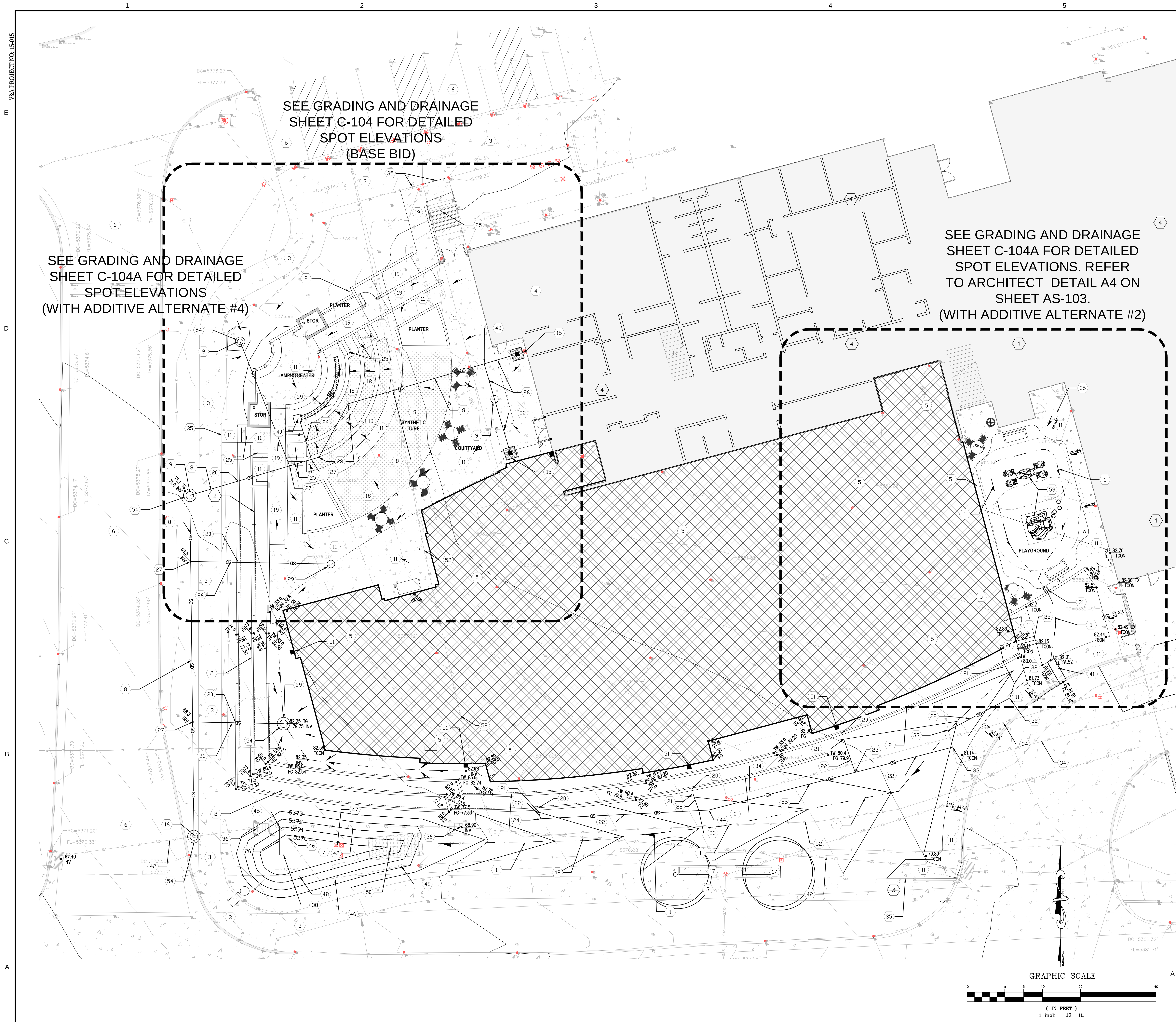
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NORTH DOMINGO BACA MULTIGENERATIONAL CENTER - PHASE III
7521 CARMEL AVE. NE, ALBUQUERQUE, NM 87113

OVERALL GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
			03/18/2016	04/02/2018
			04/08/2016	
			07/08/2016	
			08/29/2016	
			12/16/2016	

C-101



GENERAL SHEET NOTES

1. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OR EXISTING UTILITIES.
2. BACKFILL AND COMPACTION FOR SITEWORK SHALL BE ACCORDING TO THE GEOTECHNICAL REPORT FOR THE PROJECT.
3. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.
4. NOT USED.
5. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
6. ALL DISTURBED AREAS SHALL RECEIVE LANDSCAPE FABRIC WITH SEEDING, SEE GENERAL NOTES.
7. CONTRACTOR SHALL FIELD VERIFY THE FINISH FLOOR ELEVATIONS ON THE EXISTING BUILDINGS AND NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER IF THERE IS A CONFLICT BETWEEN THE STORM DRAIN LINES ON THIS SHEET AND THE EXISTING UTILITIES SHOWN ON THIS SHEET, SO THAT THE PROPER ADJUSTMENTS CAN BE MADE PRIOR TO CONSTRUCTION.
9. FOR ALL STORM DRAIN SYSTEM AND CISTERN INFORMATION SEE THIS SHEET.
10. FOR ALL SEWER LINE INFORMATION SEE SHEET C-102.
11. FOR DETAILED SPOT ELEVATIONS AND DETAILED INFORMATION ON THE STORM SEWER SYSTEM SEE SHEET C-104.
12. ALL EXISTING UTILITIES WITH SURFACE FEATURES SHALL BE ADJUSTED TO GRADE AS SHOWN ON THE GRADING AND DRAINAGE SHEETS C-103 AND 104.
13. CONTRACTOR SHALL VERIFY ALL TOP OF WALL ELEVATIONS WITH THE ARCHITECTURAL DETAILS. IF THERE IS A DISCREPANCY THE CONTRACTOR SHALL NOTIFY THE PROJECT ARCHITECT IMMEDIATELY FOR A RESOLUTION TO THE DISCREPANCY.
14. AN AUTOCAD FILE WILL BE AVAILABLE TO THE CONSTRUCTION SURVEYOR TO LOCATE ALL CIVIL RELATED ITEMS HORIZONTALLY.
15. FOR LOCATION OF PROPOSED GAS LINE SEE MECHANICAL SITE PLAN.
16. ALL STORM DRAIN PIPE SHALL HAVE 2' MIN. COVER.

SHEET KEYNOTES

1. NEW EARTHENED SWALE. IF LONGITUDINAL SLOPE EXCEEDS 3.5% PLACE CLASS B RIP RAP (LOOSE). SEE SHEET C-502 FOR DETAILS.
2. NEW RETAINING WALL SYSTEM. SEE STRUCTURAL PLANS FOR DETAILS.
3. EXISTING SIDEWALK TO REMAIN.
4. EXISTING BUILDINGS TO REMAIN.
5. NEW BUILDING SEE ARCHITECTURAL PLANS FOR DETAILS.
6. EXISTING ASPHALT SURFACE TO REMAIN.
7. NEW WATER HARVEST AREA. TOP = 73.0 INV. = 70.00, SEE SHT. C-502 FOR DETAIL.
8. NEW 18" STORM DRAIN PIPE. SLOPE=1% MIN.
9. NEW NYLOPLAST 18" DRAIN BASIN. SEE DETAIL SHEET C-501.
10. NEW AMPHITHEATER. SEE ARCHITECTURAL PLANS FOR DETAILS.
11. NEW CONCRETE PLATWORK. SEE ARCHITECTURAL PLANS FOR DETAILS. SEE AS-104 FOR JOINT PATTERN.
12. NEW LOOSE RIP RAP (CLASS B) RUNDOWN. SEE SHT. C-502 FOR DETAIL.
13. SAWCUT EXISTING CONCRETE TO CLEAN STRAIGHT EDGE AND MATCH EXISTING CONCRETE.
14. NOT USED.
15. NEW 12" NYLOPLAST INLINE DRAIN WITH CONCRETE COLLAR AND SPLASH BLOCK. (ADA COMPLIANT GRATE) SEE B3C502 FOR DETAIL.
16. CONTRACTOR SHALL FIELD VERIFY LOCATION OF DOWNSPOUT PRIOR TO CONSTRUCTION. SEE DETAIL SHEETS C-501 AND C-503.
17. NEW 24" NYLOPLAST DRAIN BASIN WITH SOLID COVER. CONNECT NEW 18" STORM DRAIN PIPE TO EXISTING 18" STORM DRAIN PIPE. SEE DETAIL SHEET 501.
18. NEW BENCH WITH CONCRETE FLAT WORK. SEE LANDSCAPING PLANS FOR DETAILS.
19. NEW SYNTHETIC TURF. SEE ARCHITECTURAL PLANS FOR DETAILS.
20. NEW HANDICAP RAMP WITH HAND RAILS. SEE ARCHITECTURAL PLANS FOR DETAILS.
21. WHEN CROSSING NEW RETAINING WALL SYSTEM WITH STORM DRAIN PIPE, THE CONTRACTOR SHALL PLACE NEW STORM DRAIN PIPE 18" MINIMUM FROM THE BOTTOM OF THE PROPOSED FOOTING ON THE NEW RETAINING WALL.
22. CONNECT NEW ROOF DRAIN PIPE TO NEW 6" STORM DRAIN PIPE (INV = 2' BELOW FG).
23. INSTALL NEW 6" STORM DRAIN PIPING TO PROVIDE CONNECTION TO STORM DRAIN MAIN LINE. SEE MECHANICAL SHEETS FOR EXACT LOCATION OF ROOF DRAINS AND FOR PIPE SIZES. ALL APPURTENANCES (INCLUDING BENDS, TEE, WYES, COUPLERS, ETC.) REQUIRED FOR CONNECTION AND TO MEET THE 18" MINIMUM DEPTH BELOW NEW FOOTING ON RETAIN WALL SHALL BE CONSIDERED INCIDENTAL TO 6" STORM DRAIN PIPING ITEM.
24. NEW 6" STORM DRAIN PIPE. SLOPE=1% MIN.
25. 6" x 6" x 6" STORM DRAIN TEE.
26. 6" x 6" x 90" STORM DRAIN BEND WITH DOUBLE CLEAN OUTS.
27. NEW STAIRS. SEE B0A5-103.
28. NEW 12" STORM DRAIN PIPE. SLOPE=1% MIN.
29. 18" x 12" x 18" STORM DRAIN PIPE TEE.
30. 18" x 18" x 45" STORM DRAIN BEND.
31. NEW 18" NYLOPLAST INLINE DRAIN (ADA COMPLIANT GRATE) SEE DETAIL SHEET C-501.
32. NOT USED.
33. NEW 12" DRAINAGE SIDEWALK CULVERT WITH STEEL PLATE AS PER COA STANDARD DRAWING 2236. NEW 12" x 6" WEEP HOLE IN WALL. MATCH INVERT OF SIDEWALK CULVERT WITH BOTTOM OF NEW WEEP HOLE.
34. 6" x 45" STORM DRAIN BEND.
35. CONNECT NEW 6" STORM DRAIN PIPE TO EXISTING 6" STORM DRAIN PIPE WITH 6"x6"x6" STORM DRAIN TEE. CONTRACTOR SHALL LOCATE AND FIELD VERIFY EXISTING STORM DRAIN LOCATION AND ELEVATION PRIOR TO CONSTRUCTION. IF THERE ARE ANY ISSUES WITH ELEVATIONS AND GRAVITY FLOW FROM THE ROOF DRAINS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER.
36. EXISTING 6" STORM DRAIN PIPE TO REMAIN.
37. MATCH TOP OF NEW CONCRETE ELEVATION WITH EXISTING TOP OF CONCRETE ELEVATION.
38. REMOVE EXISTING STORM DRAIN INLET. CONTRACTOR SHALL ADD NEW PIPE TO CONNECT EXISTING PIPES AS NECESSARY TO MAKE A WATER TIGHT SEAL. CONTRACTOR TO COORDINATE WITH CITY PROJECT MANAGER PRIOR TO CONSTRUCTION.
39. NOT USED.
40. END OF NEW 12" STORM DRAIN PIPE. INV = 70.00.
41. NEW ECONODRAIN SERIES #12 TRENCH SYSTEM WITH A SQUARE BOTTOM INVERT AND ADA COMPLIANT GRATE OR APPROVED EQUAL. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING SUBMITTAL TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL 5 DAYS PRIOR TO THE BID OPENING. SEE DETAIL D15-803.
42. NEW ECONODRAIN SERIES #12 12"x12" CATCH BASIN WITH A SQUARE BOTTOM INVERT AND ADA COMPLIANT GRATE OR APPROVED EQUAL. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING SUBMITTAL TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL 5 DAYS PRIOR TO THE BID OPENING.
43. NEW 24" DRAINAGE SIDEWALK CULVERT WITH STEEL PLATE AS PER COA STANDARD DRAWING 2236.
44. CONTRACTOR SHALL CLEAN EXISTING STORM DRAIN PIPING OF DEBRIS, FROM THE INLET ON THE WEST SIDE OF THE SERVICE ENTRANCE TO THE INLET ON THE WEST SIDE OF THE ENTRANCE TO THE EXISTING PARKING LOT.
45. 12" x 12" x 18" STORM DRAIN PIPE TEE.
46. 6" x 6" x 11.5" STORM DRAIN BEND WITH DOUBLE CLEAN OUTS.
47. 18" x 12" x 18" STORM DRAIN PIPE TEE. CONTRACTOR SHALL FIELD VERIFY PIPE INVERT PRIOR TO CONSTRUCTION.
48. RELOCATE EXISTING ELECTRICAL LINE AS NECESSARY TO CONSTRUCT THE POND. THE RELOCATION OF THE EXISTING NON POTABLE WATER LINE SHALL MEET CODE FOR COVER.
49. RELOCATE EXISTING ELECTRICAL BOXES AND LINES AS NECESSARY TO CONSTRUCT THE POND. THE RELOCATION OF THE EXISTING IRRIGATION LINE SHALL MEET CODE FOR COVER, SEE SHEET L-101 FOR EXISTING LINE LOCATIONS.
50. LOWER EXISTING NON POTABLE WATER AS NECESSARY TO CONSTRUCT THE POND. THE RELOCATION OF THE EXISTING NON POTABLE WATER LINE SHALL MEET CODE FOR COVER.
51. RELOCATE EXISTING ELECTRICAL BOX OUT OF THE PONDING AREA.
52. NEW ROOF DRAIN WITH SPLASH BLOCK WITH RIP RAP PAD (LOOSE). SEE DETAIL SHEET C-504.
53. EXISTING HDPE GROUND SOURCE WATER PIPING TO REMAIN UNDISTURBED DURING ALL CONSTRUCTION ACTIVITIES INCLUDING OVER EXCAVATION AND EXCAVATION FOR BUILDING AND RETAINING WALL FOUNDATIONS. CONTRACTOR SHALL PROVIDE FOR SUBSURFACE UTILITY ENGINEERING COMPANY TO VERIFY PIPE LOCATION AND PIPE DEPTH PRIOR TO CONSTRUCTION.
54. PLAYGROUND EQUIPMENT AND STRUCTURES. SEE ARCHITECTURAL SHEETS OR MANUFACTURER REQUIREMENTS FOR FOUNDATION AND INSPECTION REQUIREMENTS. SEE PLAN A4AS-103 FOR PLAN AND SHEET AS-503 FOR DETAILS. (ADDITIVE ALTERNATE #2)
55. ADD MULCH SOCK AROUND NEW INLET PER MANUFACTURERS RECOMMENDATIONS.

AS-BUILT INFORMATION				MICRO-FILM INFORMATION			
CONTRACTOR	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
DESIGNED BY	DATE	DATE	DATE	DESIGNED BY	DATE	DATE	DATE
CHECKED BY	DATE	DATE	DATE	CHECKED BY	DATE	DATE	DATE
APPROVED BY	DATE	DATE	DATE	APPROVED BY	DATE	DATE	DATE
DESIGNED BY	DATE	DATE	DATE	DESIGNED BY	DATE	DATE	DATE
CHECKED BY	DATE	DATE	DATE	CHECKED BY	DATE	DATE	DATE
APPROVED BY	DATE	DATE	DATE	APPROVED BY	DATE	DATE	DATE

BENCH MARKS				SURVEY INFORMATION			
CONTRACTOR	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
DESIGNED BY	DATE	DATE	DATE	DESIGNED BY	DATE	DATE	DATE
CHECKED BY	DATE	DATE	DATE	CHECKED BY	DATE	DATE	DATE
APPROVED BY	DATE	DATE	DATE	APPROVED BY	DATE	DATE	DATE
DESIGNED BY	DATE	DATE	DATE	DESIGNED BY	DATE	DATE	DATE
CHECKED BY	DATE	DATE	DATE	CHECKED BY	DATE	DATE	DATE
APPROVED BY	DATE	DATE	DATE	APPROVED BY	DATE	DATE	DATE

FIELD NOTES				DESIGN			
CONTRACTOR	DATE	DATE	DATE	CONTRACTOR	DATE	DATE	DATE
DESIGNED BY	DATE	DATE	DATE	DESIGNED BY	DATE	DATE	DATE
CHECKED BY	DATE	DATE	DATE	CHECKED BY	DATE	DATE	DATE
APPROVED BY	DATE	DATE	DATE	APPROVED BY	DATE	DATE	DATE
DESIGNED BY	DATE	DATE	DATE	DESIGNED BY	DATE	DATE	DATE
CHECKED BY	DATE	DATE	DATE	CHECKED BY	DATE	DATE	DATE
APPROVED BY	DATE	DATE	DATE	APPROVED BY	DATE	DATE	DATE

VIGIL & ASSOCIATES
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Albuquerque, New Mexico 87114
Ph: 505.850.5550 Fax: 505.850.0621
www.va-architects.com

CITY OF ALBUQUERQUE
CAPITAL IMPLEMENTATION PROGRAM

MILLER ENGINEERING CONSULTANTS
Engineers • Planners
3500 COMANCHE, NE
ALBUQUERQUE, NM 87110
(505) 888-1600 (FAX)
www.mecnm.com

NORTH DOMINGO BACA MULTIGENERATIONAL CENTER - PHASE III
7521 CARMEL AVE. NE, ALBUQUERQUE, NM 87113

Drawing Title
DETAILED GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Mo./Day/Yr. 03/18/2016	Mo./Day/Yr. 04/02/2018
		04/08/2016	
		07/08/2016	
		09/29/2016	
		12/16/2016	

City Project No. 7136.95	Zone Map No. C-19-Z	Sheet C-102
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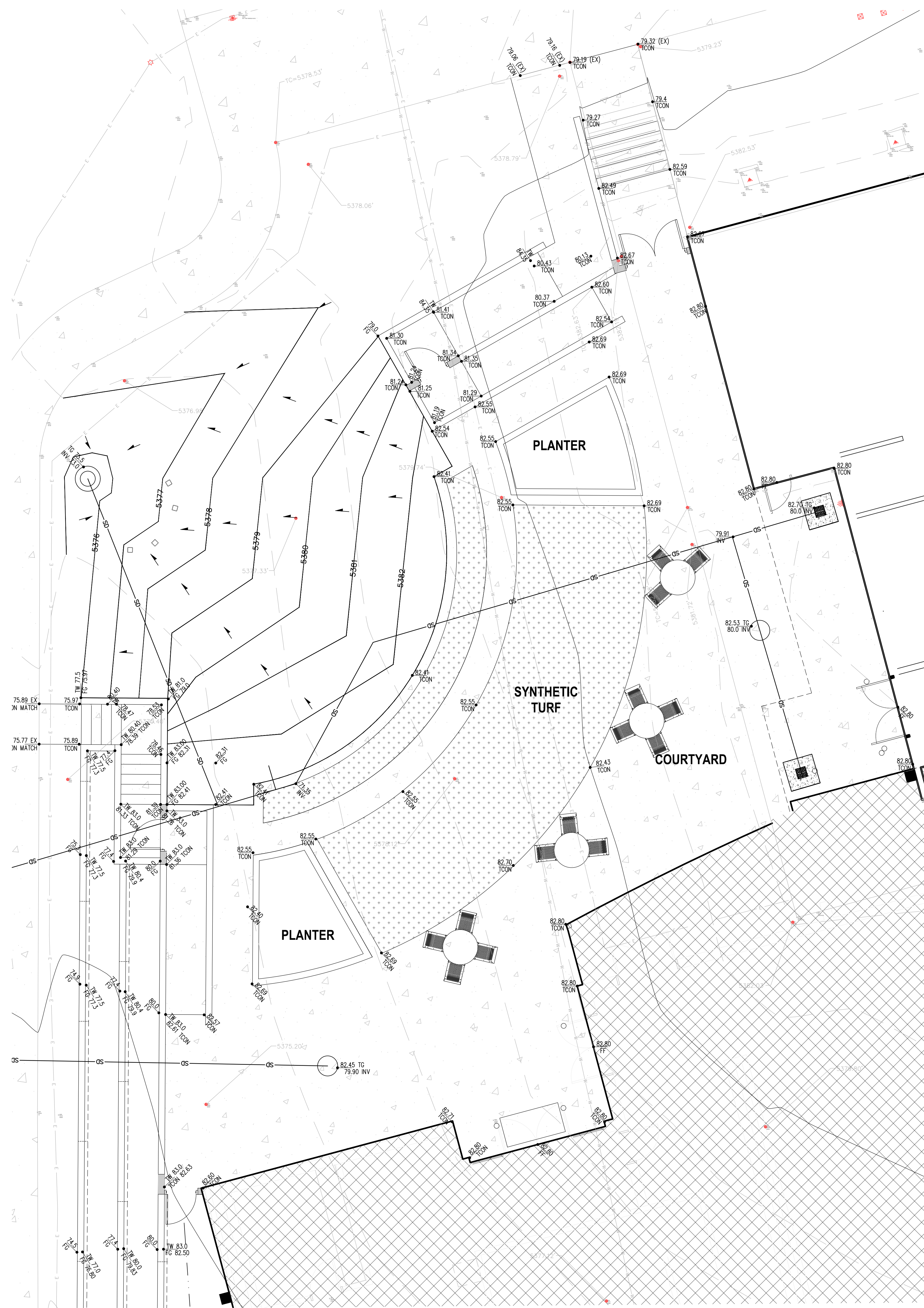
GENERAL SHEET NOTES

1. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OR EXISTING UTILITIES.
2. BACKFILL AND COMPACTION FOR SITEWORK SHALL BE ACCORDING TO THE GEOTECHNICAL REPORT FOR THE PROJECT.
3. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.
4. NOT USED
5. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
6. ALL DISTURBED AREAS SHALL RECEIVE LANDSCAPE FABRIC WITH SEEDING, SEE GENERAL NOTES.
7. CONTRACTOR SHALL FIELD VERIFY THE FINISH FLOOR ELEVATIONS ON THE EXISTING BUILDINGS AND NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER IF THERE IS A CONFLICT BETWEEN THE STORM DRAIN LINES ON THIS SHEET AND THE SANITARY SEWER LINES ON SHEET C-104, SO THAT THE PROPER ADJUSTMENTS CAN BE MADE PRIOR TO CONSTRUCTION.
9. FOR ALL STORM DRAIN SYSTEM AND CISTERN INFORMATION SEE SHEET C-105.
10. FOR ALL SEWER LINE INFORMATION SEE SHEET C-106.
12. ALL EXISTING UTILITIES WITH SURFACE FEATURES SHALL BE ADJUSTED TO GRADE AS SHOWN ON THE GRADING AND DRAINAGE SHEETS C-101, 102, 103 AND 104.

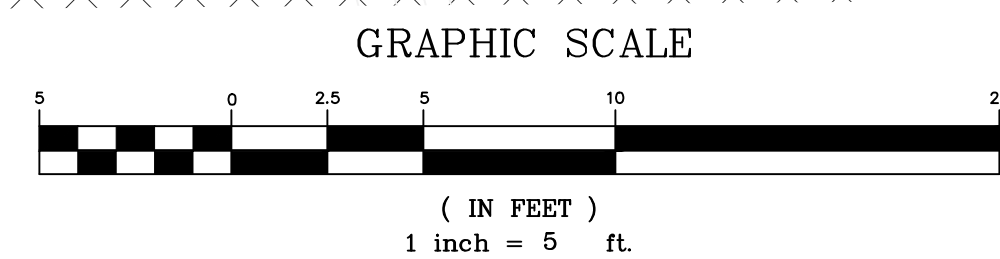
SHEET KEYNOTES

1. RAISE EXISTING MANHOLE TO GRADE.
2. NEW CURB AND GUTTER. PER C.O.A. STD. DWG. 2415A AND 2415B. CONTRACTOR SHALL MATCH EXISTING CURB AND GUTTER IN THE EXISTING PARKING LOT.
3. NEW SINGLE C STORM DRAIN INLET AS PER STD. DWG. 2205 AND ASSOCIATED DWGS.
4. NEW 12" STORM DRAIN PIPE. SLOPE=1% MIN.
5. NEW HMA SURFACE. SEE ASPHALT SECTION SHEET C-502.
6. EXISTING ASPHALT SURFACE TO REMAIN.
7. CONNECT NEW STORM DRAIN LINE TO EXISTING STORM DRAIN LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING STORM DRAIN LOCATION AND ELEVATION PRIOR TO CONSTRUCTION.
8. EXISTING STORM DRAIN TO REMAIN.
9. REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER AND SAWCUT EXISTING ASPHALT TO CLEAN STRAIGHT EDGE (1' MIN BEHIND EXISTING CURB) AND MATCH EXISTING ASPHALT.
10. NEW CONCRETE HEADER CURB. PER C.O.A. STD. DWG. 2415A AND 2415B. CONTRACTOR SHALL MATCH EXISTING CURB AND GUTTER IN THE EXISTING PARKING LOT.
11. NEW PARKING BUMPERS (TYPICAL).
12. NEW CAST INITU PAVING SYSTEM. SEE ARCHITECTURAL SHEET AS-503.
13. ADJUST VALVE BOX TO GRADE AND PLACE TO AVOID CONFLICT WITH PROPOSED CURB AND GUTTER.

D															
B				C				D							
REVISIONS				SEAL				SURVEY INFORMATION							
NO	DATE			BY				FIELD NOTES		BENCH MARKS					
	mm/dd/yyyy			XX				NO.	BY	DATE					
	mm/dd/yyyy			XX											
	mm/dd/yyyy			XX											
DESIGN								AS-BUILT INFORMATION							
												CONTRACTOR		DATE	
												WORKED BY		DATE	
												INSPECTED BY		DATE	
												ACCEPTANCE BY		DATE	
								MICRO-FILM INFORMATION							
								RECORDED BY							
								DATE							
								NO.							
Designed By: Y&A				Date:											
Drawn By: Y&A				Date:											
Checked By: REV															



A1 DETAILED GRADING AND DRAINAGE PLAN (BASE BID)
SCALE: 1" = 30'

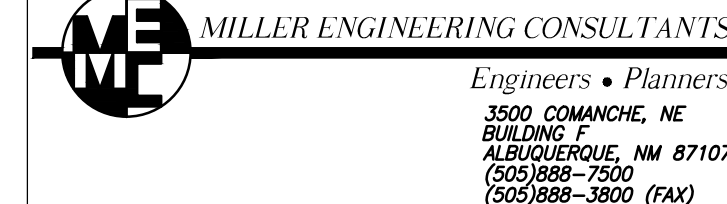


SHEET KEYNOTES

3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LOCAL SITING SERVICE 260-1990 FOR LOCATION OR EXISTING UTILITIES.
4. BACKFILL AND COMPACTION FOR THE SPECTROW SHALL BE ACCORDING TO THE GEOTECHNICAL REPORT FOR THE PROJECT.
5. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER TO CONDUCT.
6. NOT USED
7. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
8. ALL DISTURBED AREAS SHALL RECEIVE LANDSCAPE FABRIC WITH SEEDING. SEE GENERAL NOTES.
9. CONTRACTOR SHALL FIELD VERIFY THE FINISH FLOOR ELEVATIONS ON THE EXISTING BUILDINGS AND NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
10. CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER IF THERE IS A CONFLICT BETWEEN THE EXISTING UTILITIES ON THE SHEET AND THE SANITARY SEWER LINES ON SHEET C-104, SO THAT THE PROPER ADJUSTMENTS CAN BE MADE PRIOR TO CONSTRUCTION.
11. FOR ALL STORM DRAIN INFORMATION SEE SHEET C-105 AND C-106.
12. FOR ALL SEWER LINE INFORMATION SEE SHEET C-106.
13. ALL EXISTING UTILITIES WITH SURFACE FEATURES SHALL BE ADJUSTED TO GRADE AS SHOWN ON THE GRADING AND DRAINAGE SHEETS C-101, 102, 103 AND 104.
14. FOR ALL KEY NOTES FOR THESE IMPROVEMENTS SEE SHEET C-104.

LEGEND

REVISIONS		SEAL	SURVEY INFORMATION		BENCH MARKS	AS-BUILT INFORMATION
NO.	DATE		BY	FIELD NOTES		
	meday'yr	XX		DATE		CONTRACTOR DATE
	meday'yr	XX				WITNESS BY DATE
	meday'yr	XX				NAMES TO BE DATE
						FIELD DATE
						VIRIFICATION BY DATE
						CORRECTED BY DATE
DESIGN			MICRO-FILM INFORMATION			
			RECORDED BY DATE			
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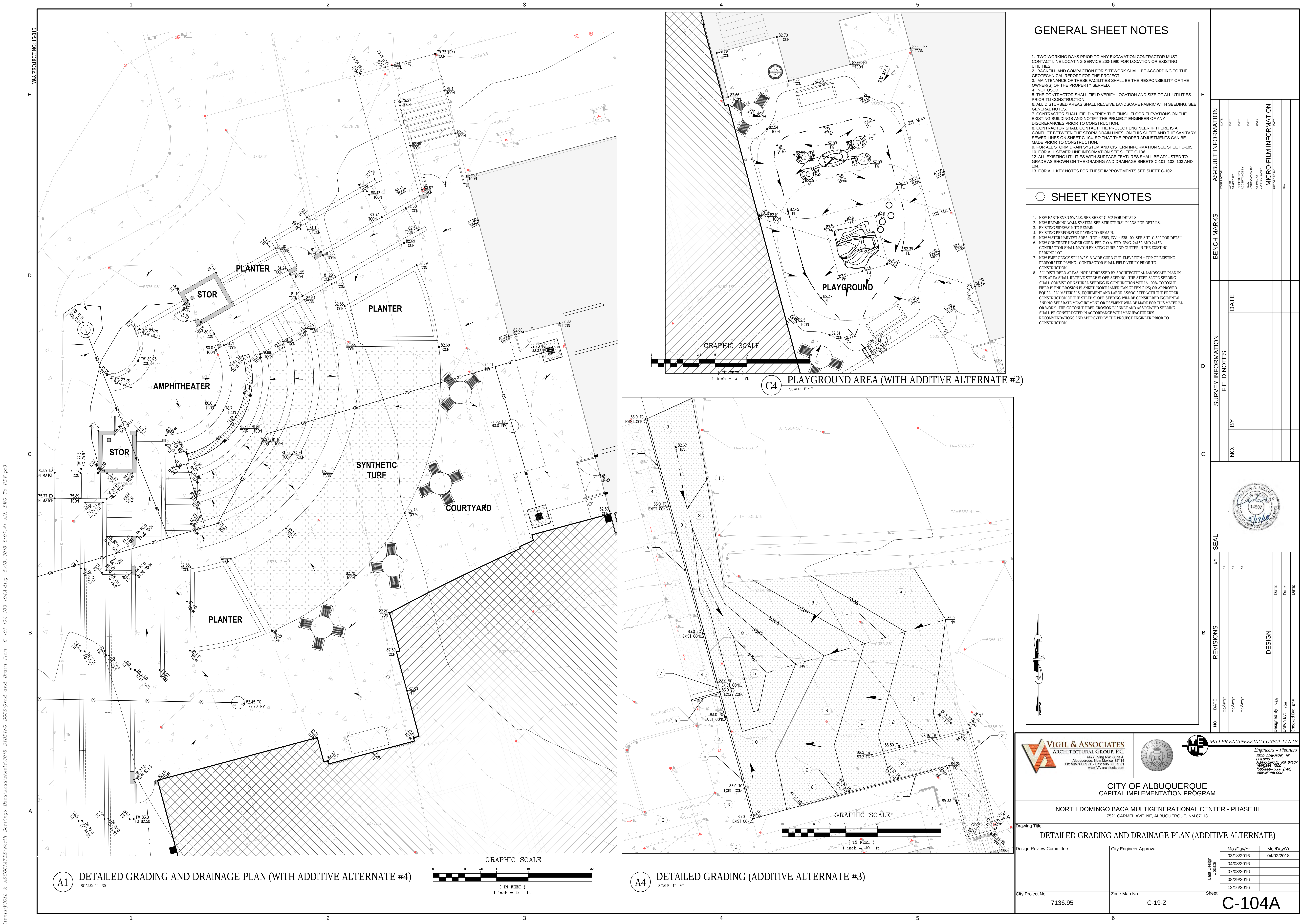


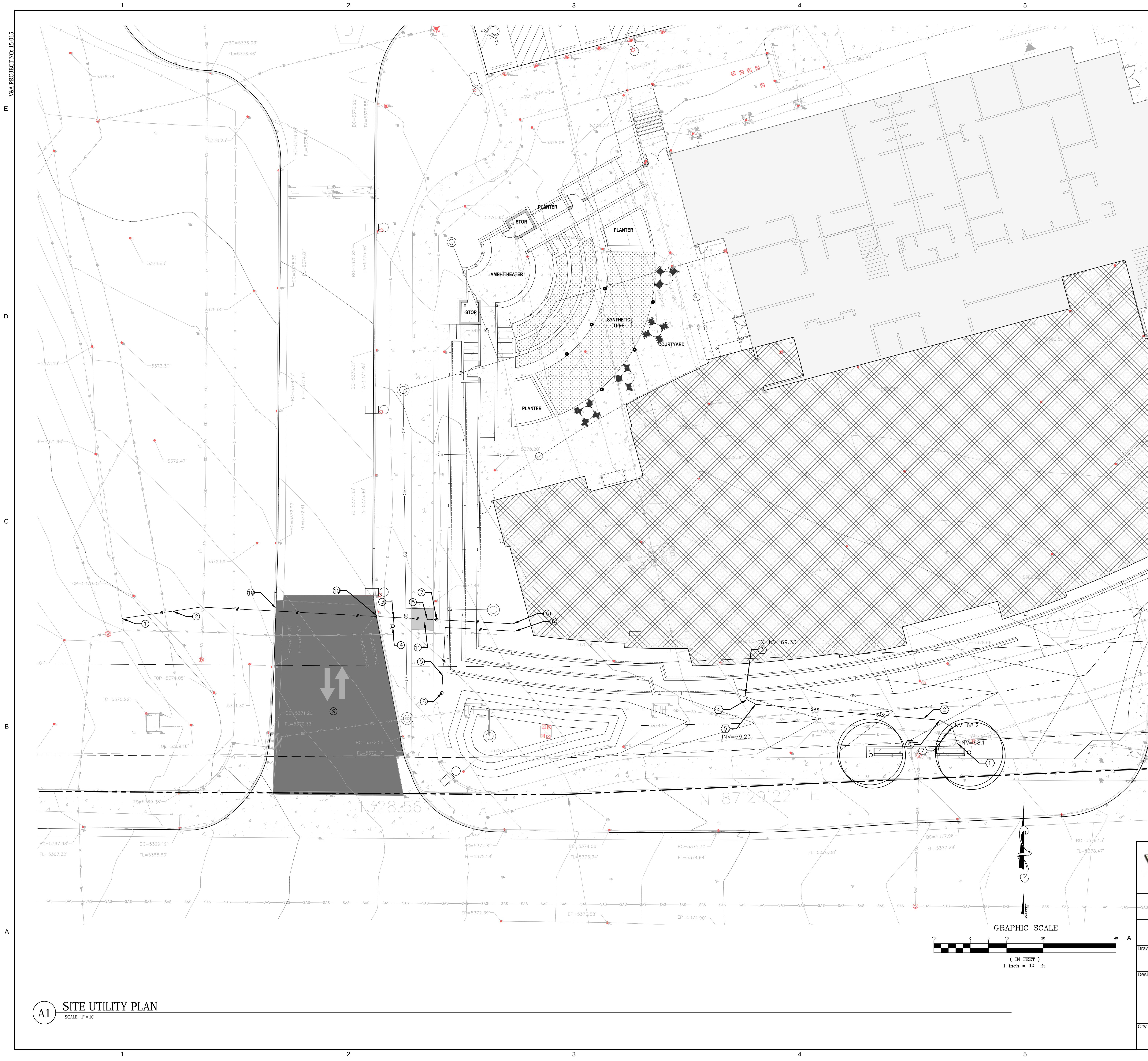
CITY OF ALBUQUERQUE
CAPITAL IMPLEMENTATION PROGRAM

NORTH DOMINGO BACA MULTIGENERATIONAL CENTER - PHASE III
7521 CARMEL AVE. NE, ALBUQUERQUE, NM 87113

Drawing Title	DETAILED GRADING AND DRAINAGE PLAN (BASE BID)
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Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
			03/18/2016	04/02/2018
			04/08/2016	
			07/08/2016	
			08/29/2016	
			12/16/2016	
City Project No.	Zone Map No.	Sheet		
7136.95	C-19-Z		C-104	





LEGEND

- W PROPOSED WATER SERVICE LINE
- S 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

GENERAL SHEET NOTES

- TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 200-1990 FOR LOCATION OR EXISTING UTILITIES.
- BACKFILL AND COMPACTION FOR SITEWORK SHALL BE ACCORDING TO THE GEOTECHNICAL REPORT FOR THE PROJECT.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.
- NOT USED
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- ALL DISTURBED AREAS SHALL RECEIVE LANDSCAPE FABRIC WITH SEEDING, SEE GENERAL NOTES.
- CONTRACTOR SHALL FIELD VERIFY THE FINISH FLOOR ELEVATIONS ON THE EXISTING BUILDINGS AND NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER IF THERE IS A CONFLICT BETWEEN THE STORM DRAIN LINES ON THIS SHEET AND THE SANITARY SEWER LINES ON SHEET C-104, SO THAT THE PROPER ADJUSTMENTS CAN BE MADE PRIOR TO CONSTRUCTION.
- FOR ALL STORM DRAIN SYSTEM AND CISTERN INFORMATION SEE SHEET C-102.
- FOR ALL SEWER LINE INFORMATION SEE SHEET C-105.
- ALL EXISTING UTILITIES WITH SURFACE FEATURES SHALL BE ADJUSTED TO GRADE AS SHOWN ON THE GRADING AND DRAINAGE SHEETS C-103 AND 104.
- AN AUTOCAD FILE WILL BE AVAILABLE TO THE CONSTRUCTION SURVEYOR TO LOCATE ALL CIVIL RELATED ITEMS HORIZONTALLY.
- FOR LOCATION OF PROPOSED GAS LINE SEE MECHANICAL SITE PLAN.
- WHEN CONSTRUCTING THE WATER LINE ACROSS THE ENTRANCE ROAD, THE CONTRACTOR SHALL CONSTRUCT SO THAT THE ROAD IS NEVER CLOSED.
- CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES DO NOT CONFLICT WITH THE PROPOSED SANITARY SEWER LINE. IF THERE ARE ANY POSSIBLE CONFLICTS THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY.

WATER KEYNOTES

- CONNECT NEW 8" FIRE PROTECTION LINE TO EXISTING WATER MAIN PER C.O.A. STD. DWG. 2301. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE WATER UTILITY AUTHORITY AND THE PROJECT ENGINEER FOR INSPECTION AND ACCEPTANCE OF THIS WORK. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING AND CONNECTION FEES AND EASEMENTS IF NECESSARY. SEE ALSO WATER UTILITY GENERAL NOTES, SHEET CG-001.
- NEW 8" FIRE PROTECTION LINE PER C.O.A. STD. DWG. 2301, 2315, 2320 & 2358.
- PROVIDE NEW 8"x6"x6" TEE FOR NEW 8" FIRE PROTECTION LINE TO BUILDING.
- NEW FIRE HYDRANT ASSEMBLY PER C.O.A. STD. DWG. 2340 & 2347. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE WATER UTILITY AUTHORITY AND THE PROJECT ENGINEER FOR INSPECTION AND ACCEPTANCE OF THIS WORK.
- NEW 6" FIRE PROTECTION LINE PER C.O.A. STD. DWG. 2301, 2315, 2320, & 2358.
- CONNECT NEW 6" FIRE PROTECTION LINE TO PROPOSED BUILDING. SEE MECHANICAL PLANS SHEET PP-101. FOR INVERT AND EXACT LOCATION PRIOR TO CONSTRUCTION.
- NEW POST INDICATOR VALVE. SEE SHEET C-504 FOR DETAIL.
- NEW FIRE DEPARTMENT CONNECTION. SEE SHEET C-504 FOR DETAIL.
- SAWCUT EXISTING ASPHALT TO CLEAN STRAIGHT EDGE. REMOVE, DISPOSE AND REPLACE EXISTING ASPHALT AS NECESSARY TO INSTALL SANITARY SEWER SERVICE OR 8" FIRE LINE AS PER C.O.A. STD. DWG. 2465. MATCH EXISTING ASPHALT SECTION OF ASPHALT, BASE COURSE AND SUBGRADE PREP. (5' MAX WIDTH). CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM C.O.A.
- SAWCUT, CUT ASPHALT TO BACK OF CURB. REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER AS NECESSARY TO INSTALL NEW CURB AND GUTTER. MATCH EXISTING SECTION.
- SAWCUT, CUT AT CONTROL/ EXPANSION JOINT, REMOVE AND DISPOSE OF EXISTING CONCRETE AS NECESSARY TO INSTALL NEW CONCRETE SIDEWALK. MATCH EXISTING SECTION.

SEWER KEYNOTES

- CONNECT NEW 4" SANITARY SEWER SERVICE TO EXISTING 8" SANITARY SEWER MAIN AS PER C.O.A. STANDARD DWG. 2125.
- NEW 4" SANITARY SEWER SERVICE LINE @ MIN. SLOPE = 2.0%.
- CONNECT NEW 4" SANITARY SEWER SERVICE LINE WITH DOUBLE CLEANOUTS TO PROPOSED BUILDING. SEE MECHANICAL PLANS SHEET P-101 FOR INVERT AND EXACT LOCATION PRIOR TO CONSTRUCTION.
- 6" x 6 x 45" SANITARY SEWER PIPE BEND.
- 6" x 6 x 22.5" SANITARY SEWER PIPE BEND WITH DOUBLE CLEANOUTS.
- 6" x 6 x 45" SANITARY SEWER PIPE BEND WITH DOUBLE CLEAN OUTS.
- 6" x 6 x 22.5" SANITARY SEWER PIPE BEND.

AS-BUILT INFORMATION

CONTRACTOR	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
REVIEWED BY	DATE

BENCH MARKS

NO.	DATE

SURVEY INFORMATION

NO.	BY	DATE

FIELD NOTES

SEAL

NO.	DATE	BY

REVISIONS

NO.	DATE	REVISION

DESIGN

DESIGNED BY	DATE
VAA	
DRAWN BY	DATE
VAA	
CHECKED BY	DATE
IRV	

PROFESSIONAL SEAL

Professional Engineer
State of New Mexico
No. 14507
Vigil & Associates

COMPANY INFORMATION

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CITY OF ALBUQUERQUE
CAPITAL IMPLEMENTATION PROGRAM
NORTH DOMINGO BACA MULTIGENERATIONAL CENTER - PHASE III
7521 CARMEL AVE. NE, ALBUQUERQUE, NM 87113

Design Review Committee	City Engineer Approval	Mo./Day/Yr. 03/18/2016 04/08/2016 07/08/2016 09/29/2016 12/16/2016	Mo./Day/Yr. 04/02/2018
City Project No. 7136.95	Zone Map No. C-19-Z	Sheet C-105	

A1 SITE UTILITY PLAN
SCALE: 1" = 10'

T:\Clients\VIGIL & ASSOCIATES\North Domingo_Baca\Draw sheets\2019 BIDDING_DCS\Miscellaneous_Details C-501.dwg, 5/18/2019, 8:20:42 AM, DWG To PDF, p.3

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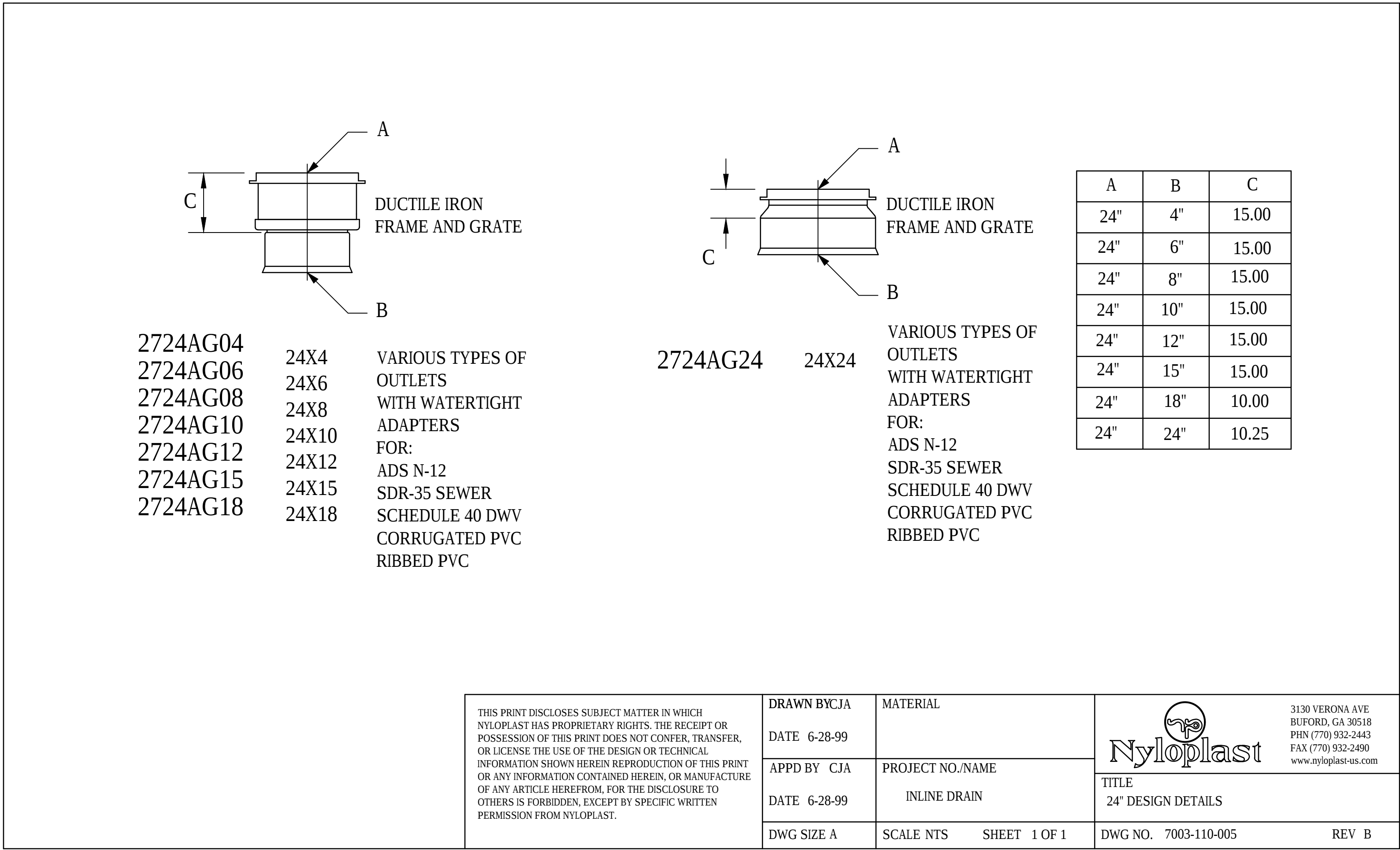
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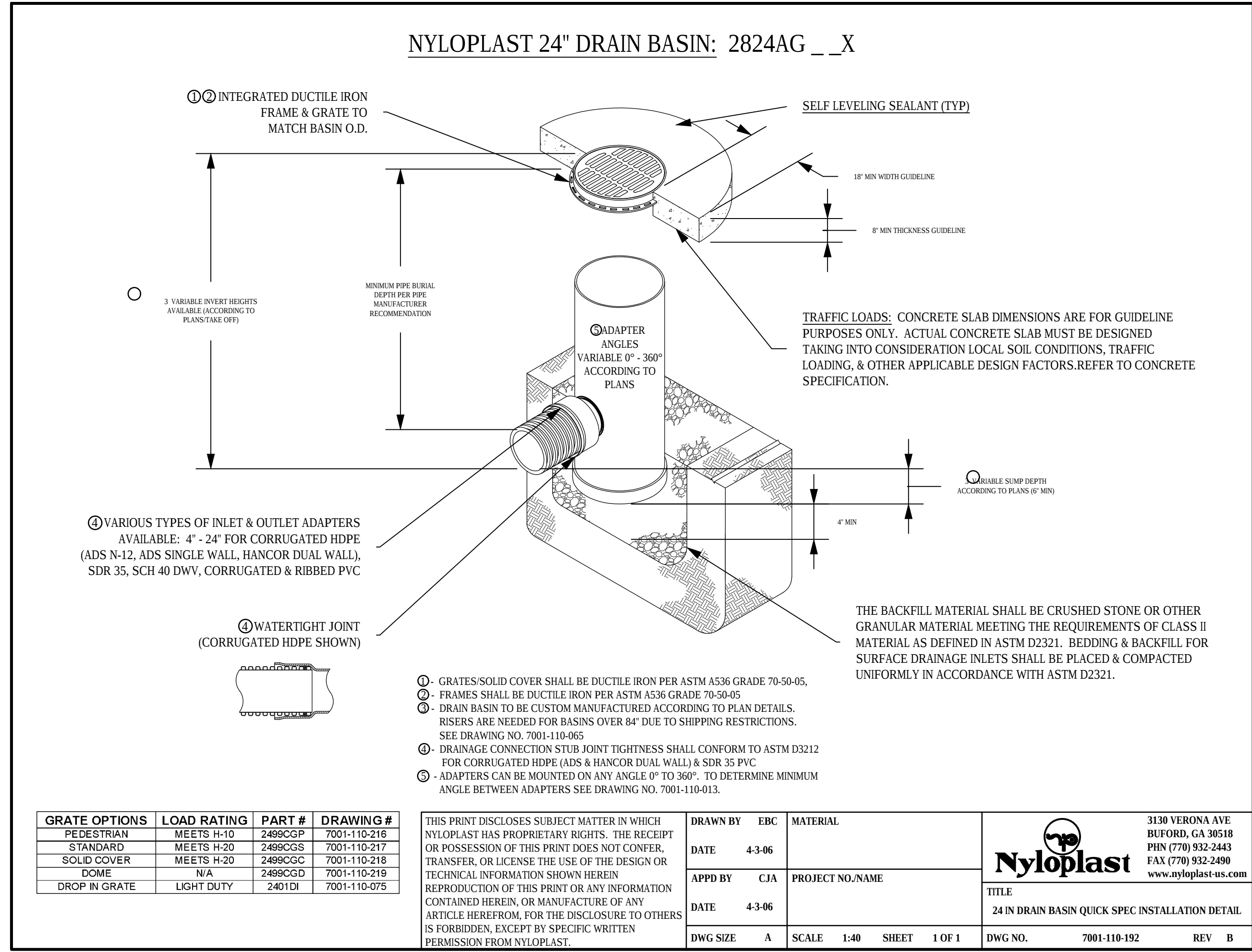
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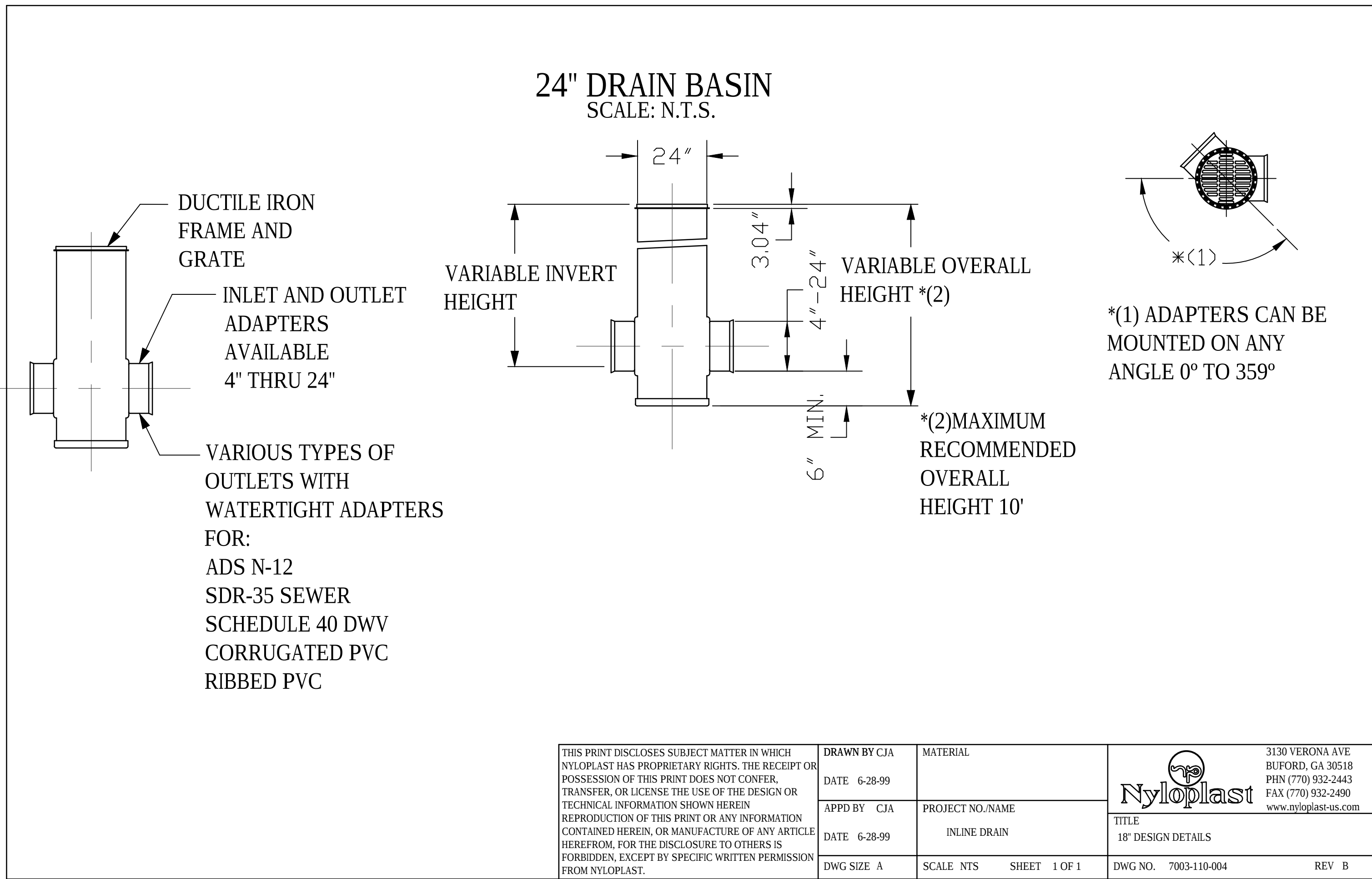
D1 IN-LINE DRAINAGE BASIN DETAIL

SCALE: NTS



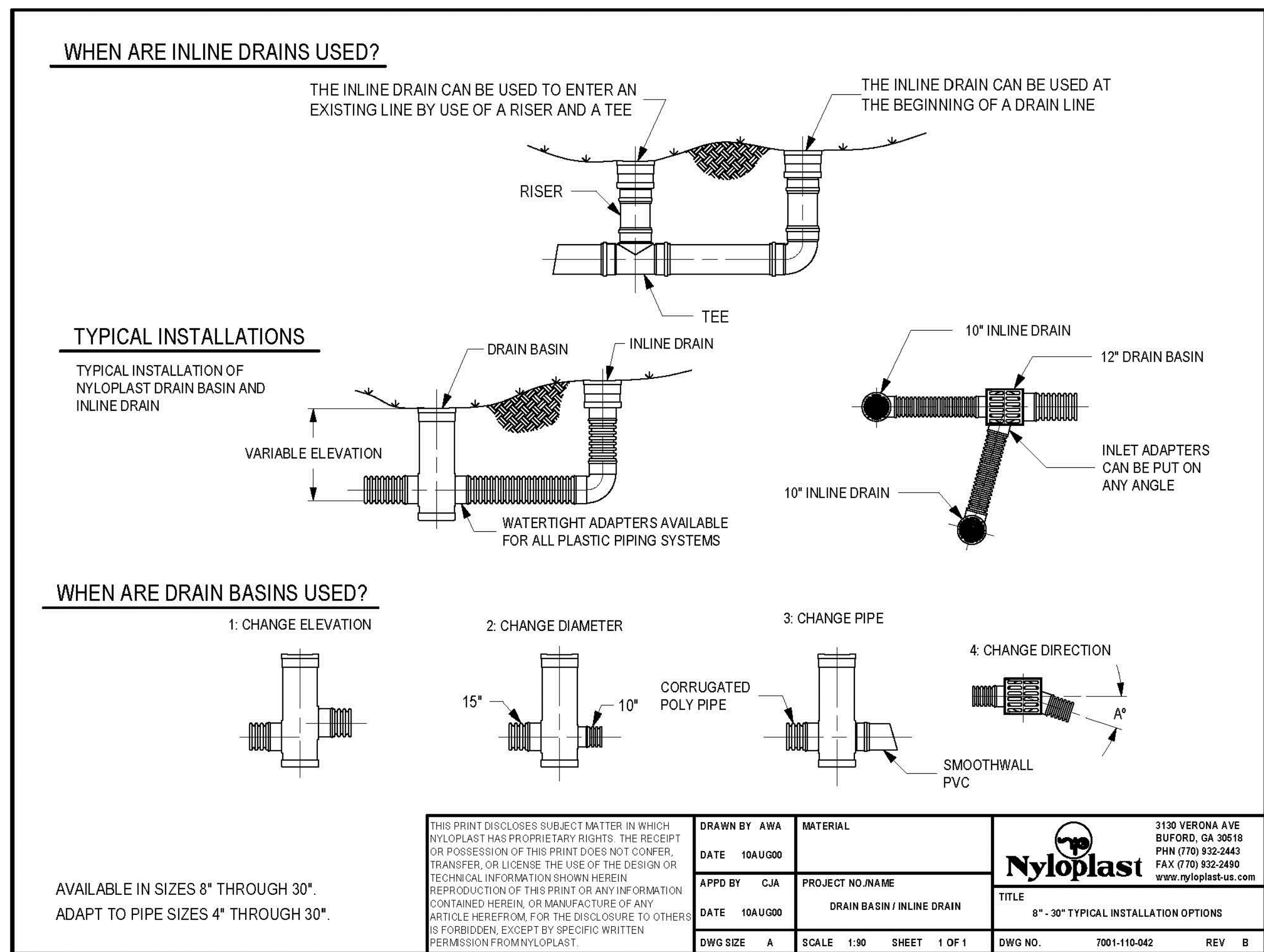
D3 NYLOPLAST QUICK SPEC INSTALLATION DETAIL

SCALE: NTS



A1 DRAINAGE BASIN DETAIL

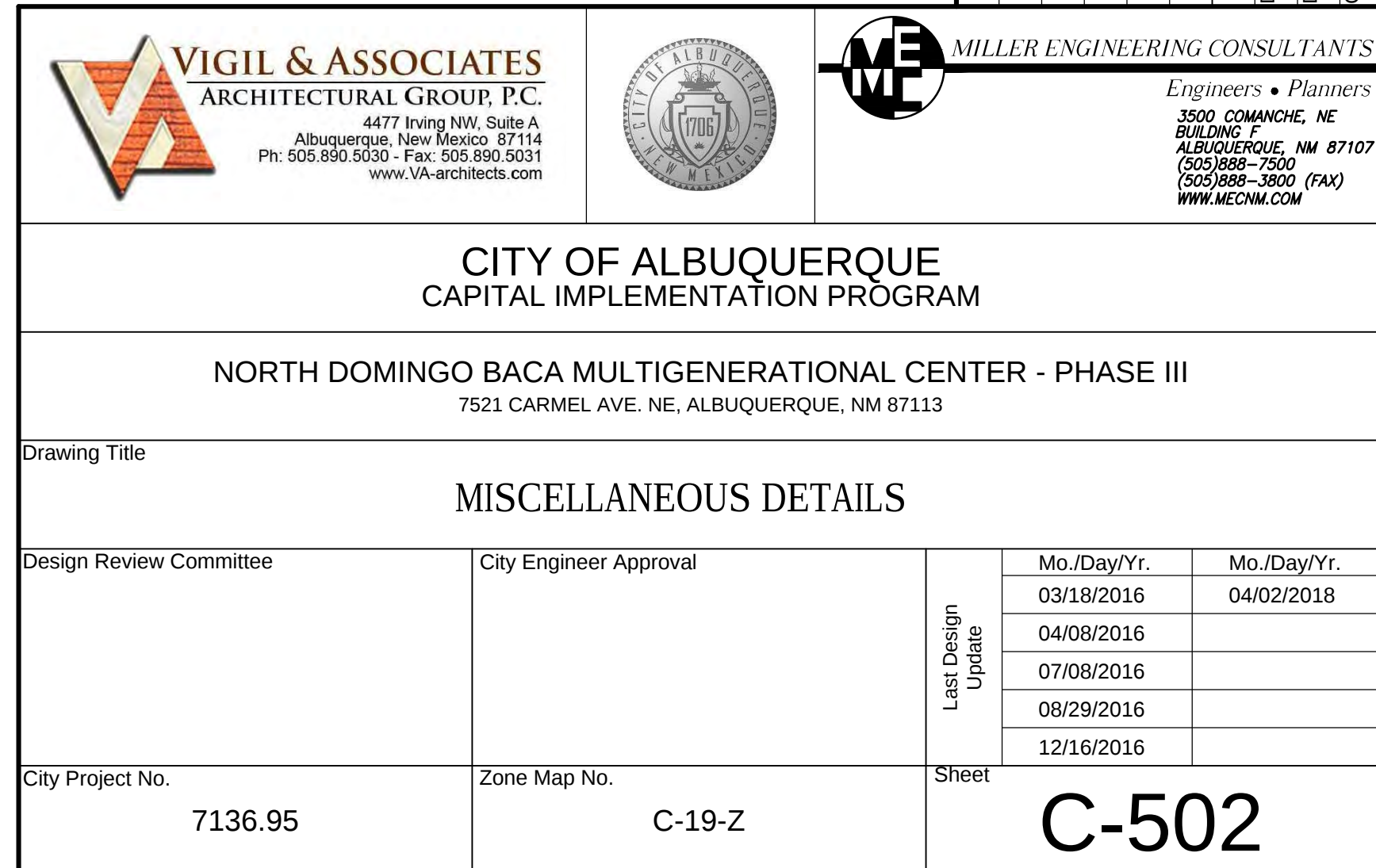
SCALE: NTS



B4 NYLOPLAST TYPICAL INSTALLATION OPTIONS

SCALE: NTS

CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM		
NORTH DOMINGO BACA MULTIGENERATIONAL CENTER - PHASE III 7521 CARMEL AVE. NE, ALBUQUERQUE, NM 87113		
Drawing Title MISCELLANEOUS DETAILS		
Design Review Committee	City Engineer Approval	Last Design Update Mo./Day/Yr. 03/18/2016 04/08/2016 07/08/2016 09/29/2016 12/16/2016
City Project No. 7136.95	Zone Map No. C-19-Z	Sheet C-501



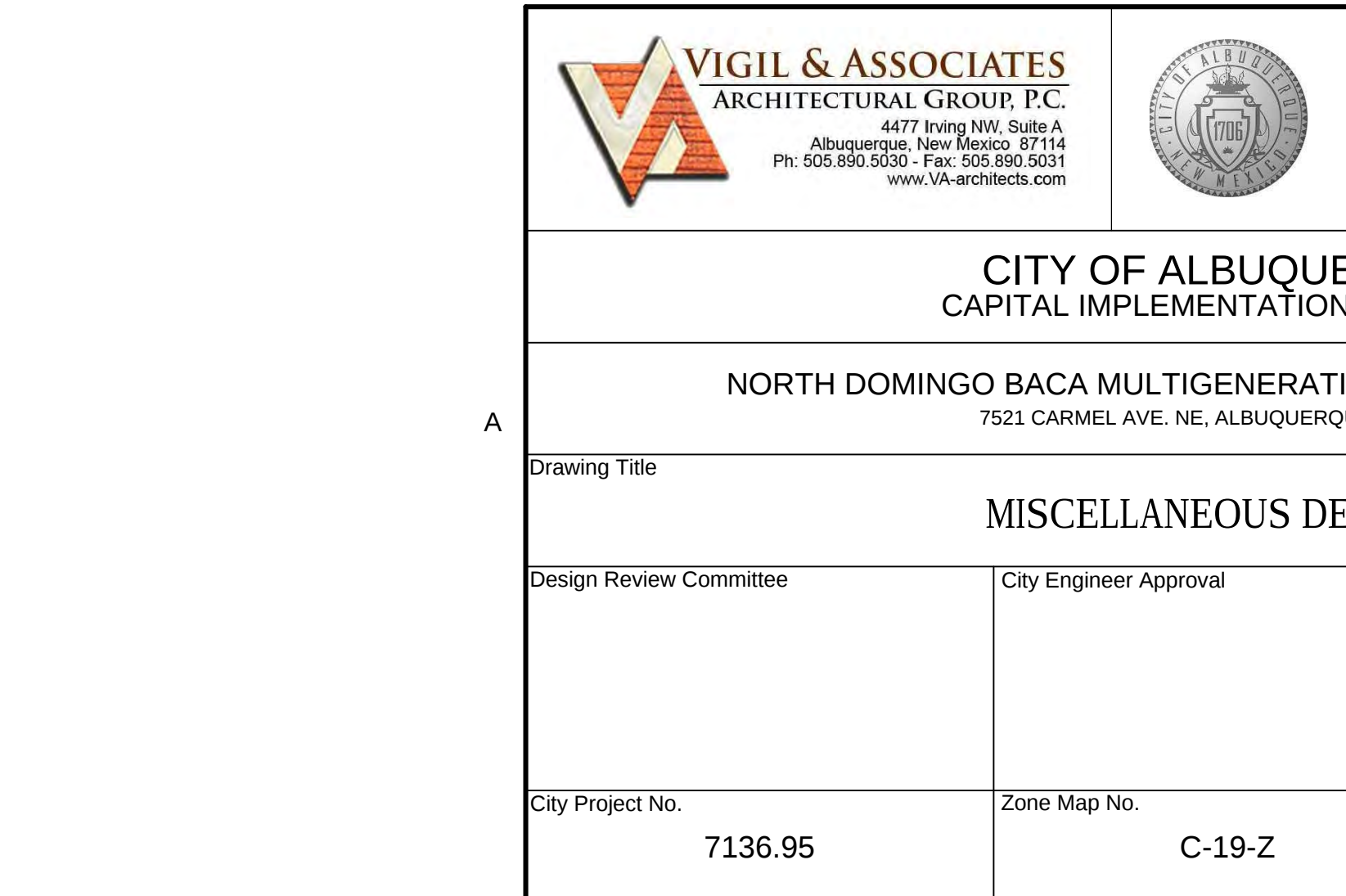
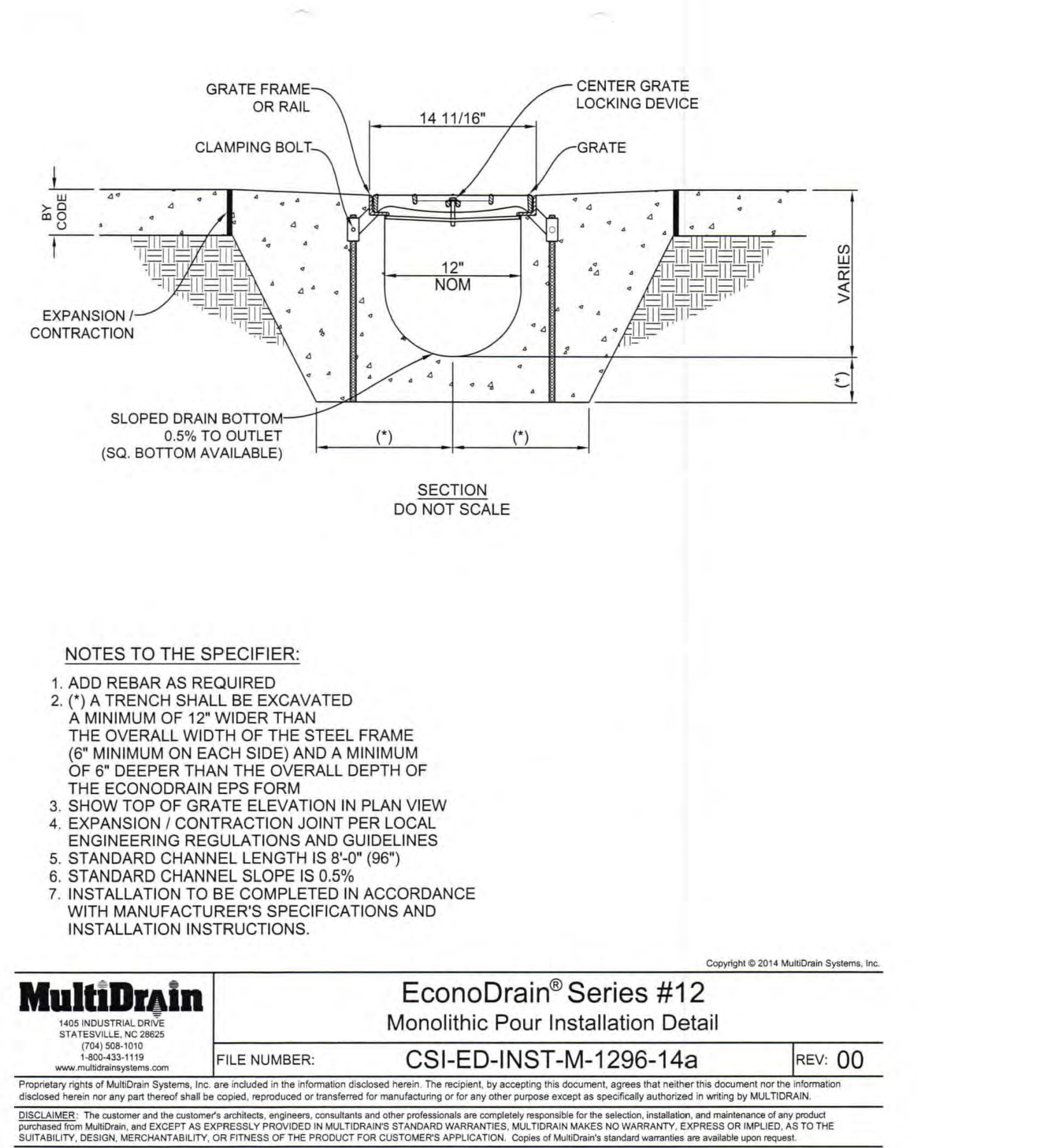
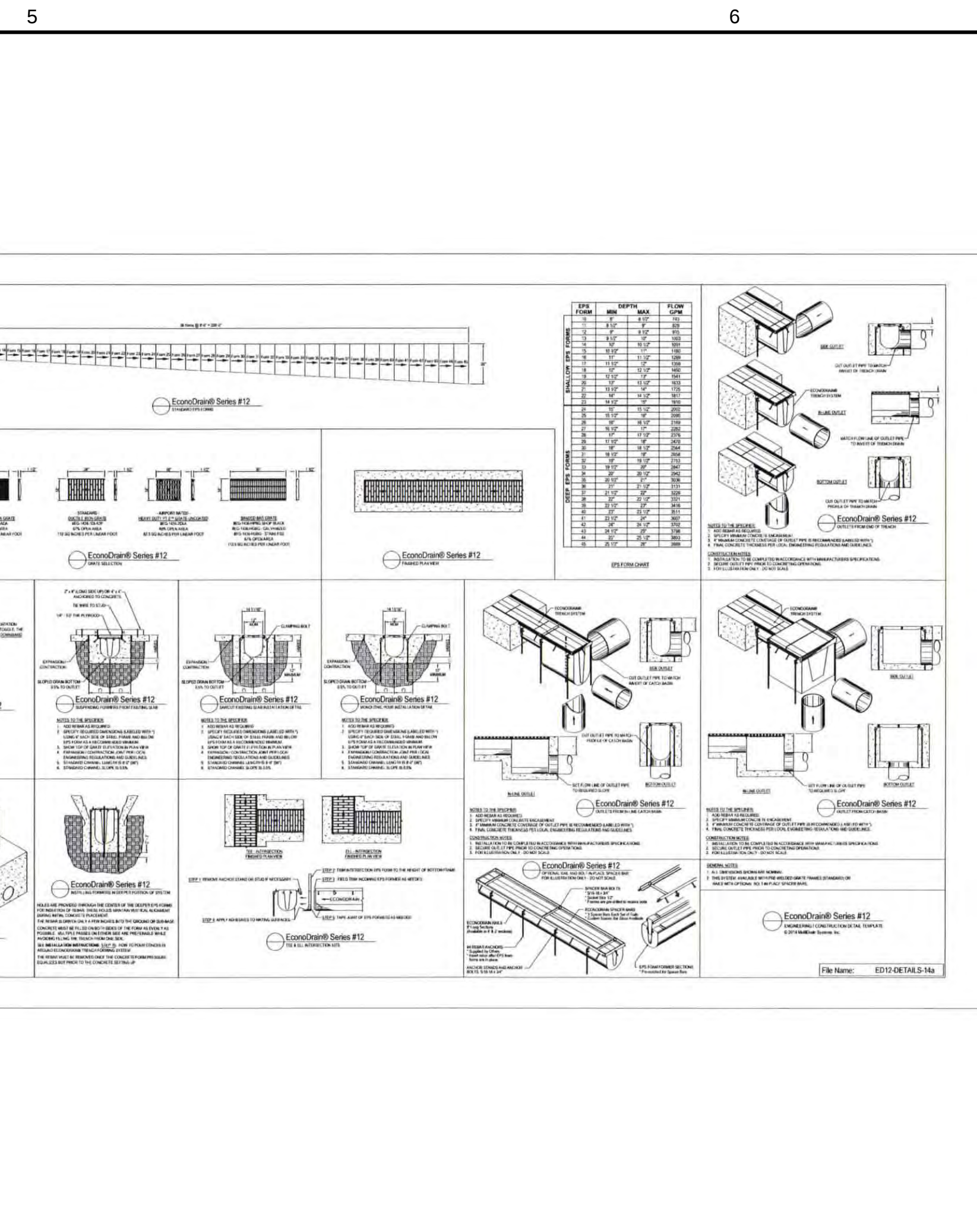
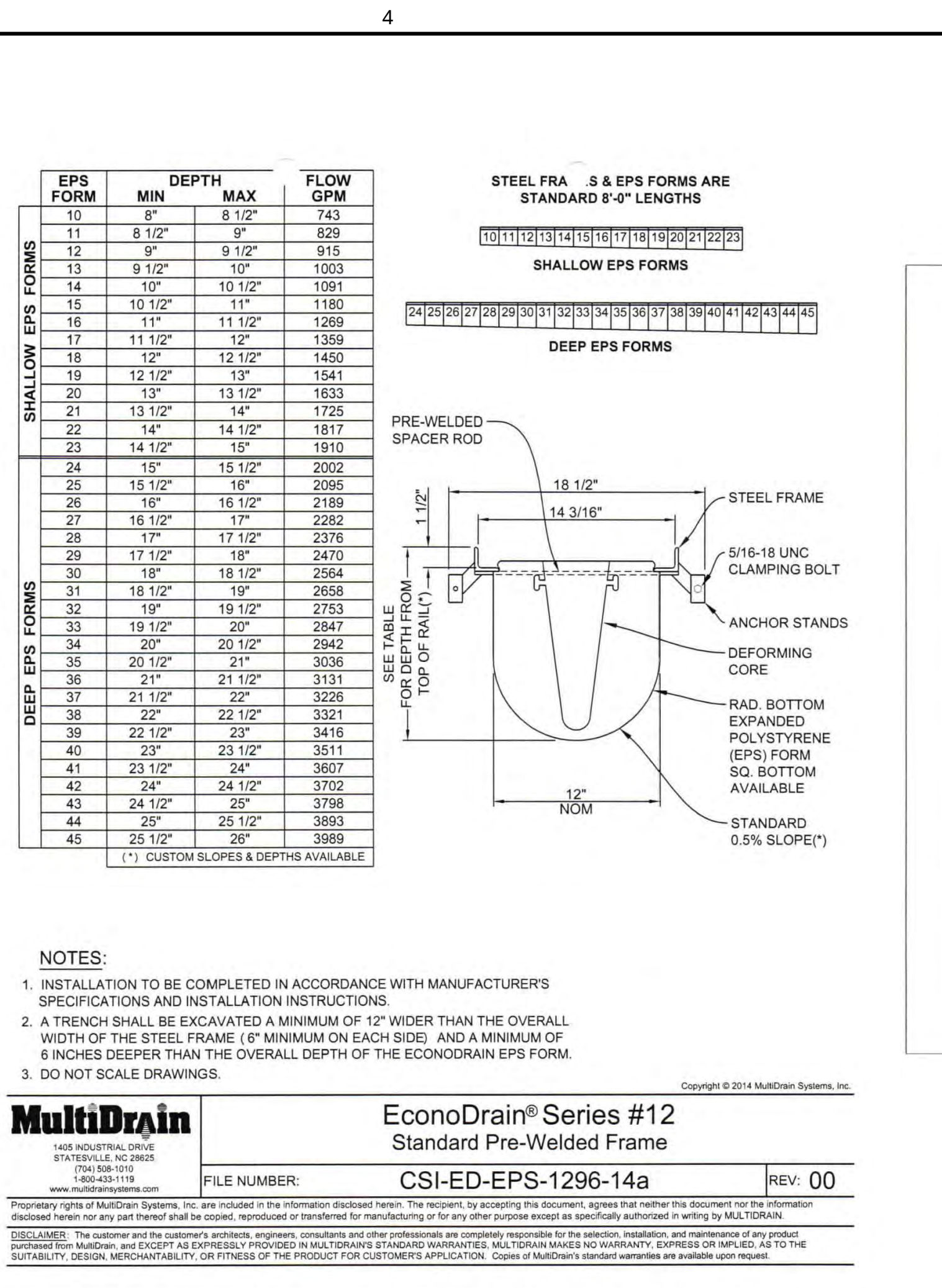
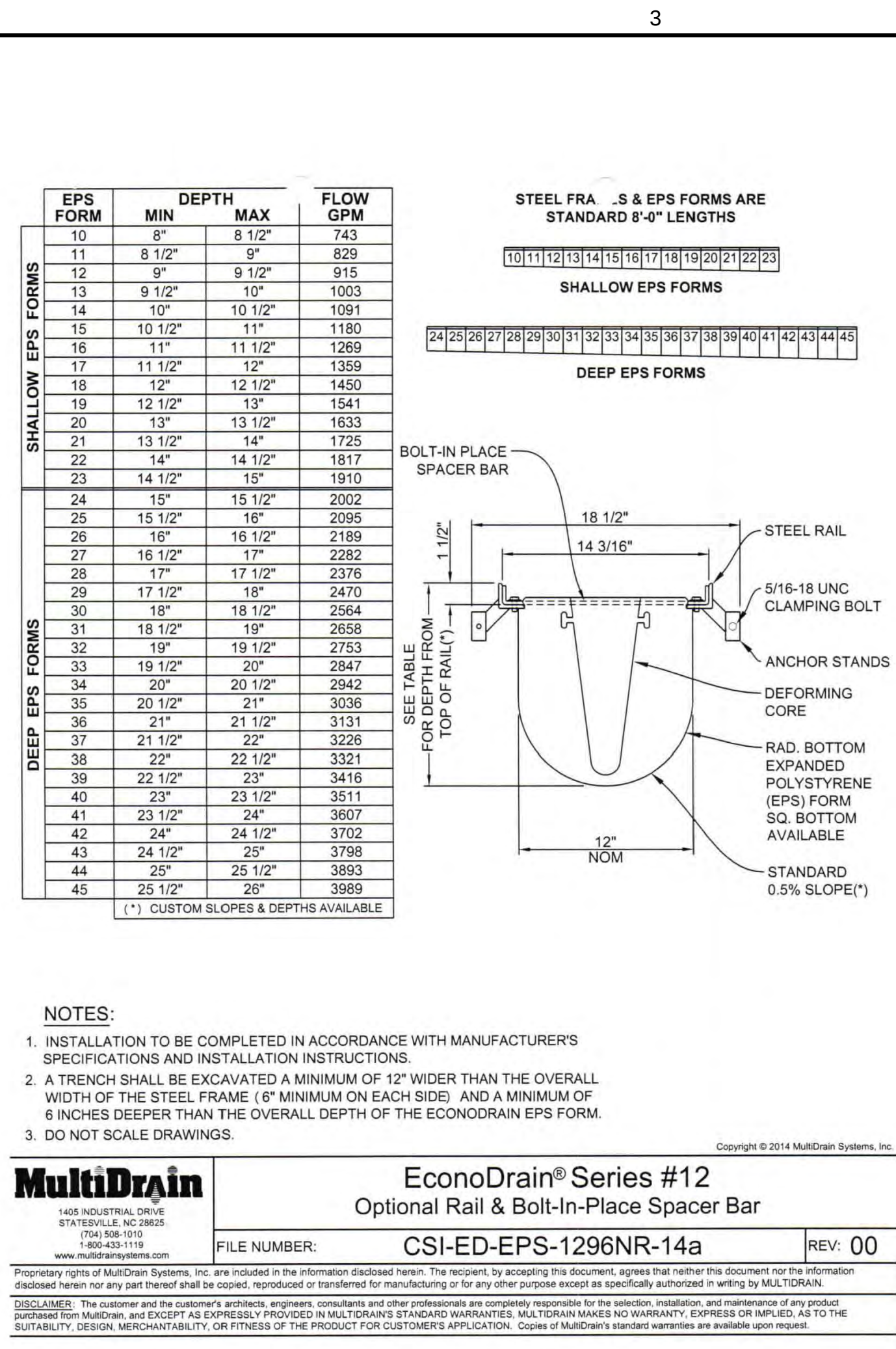
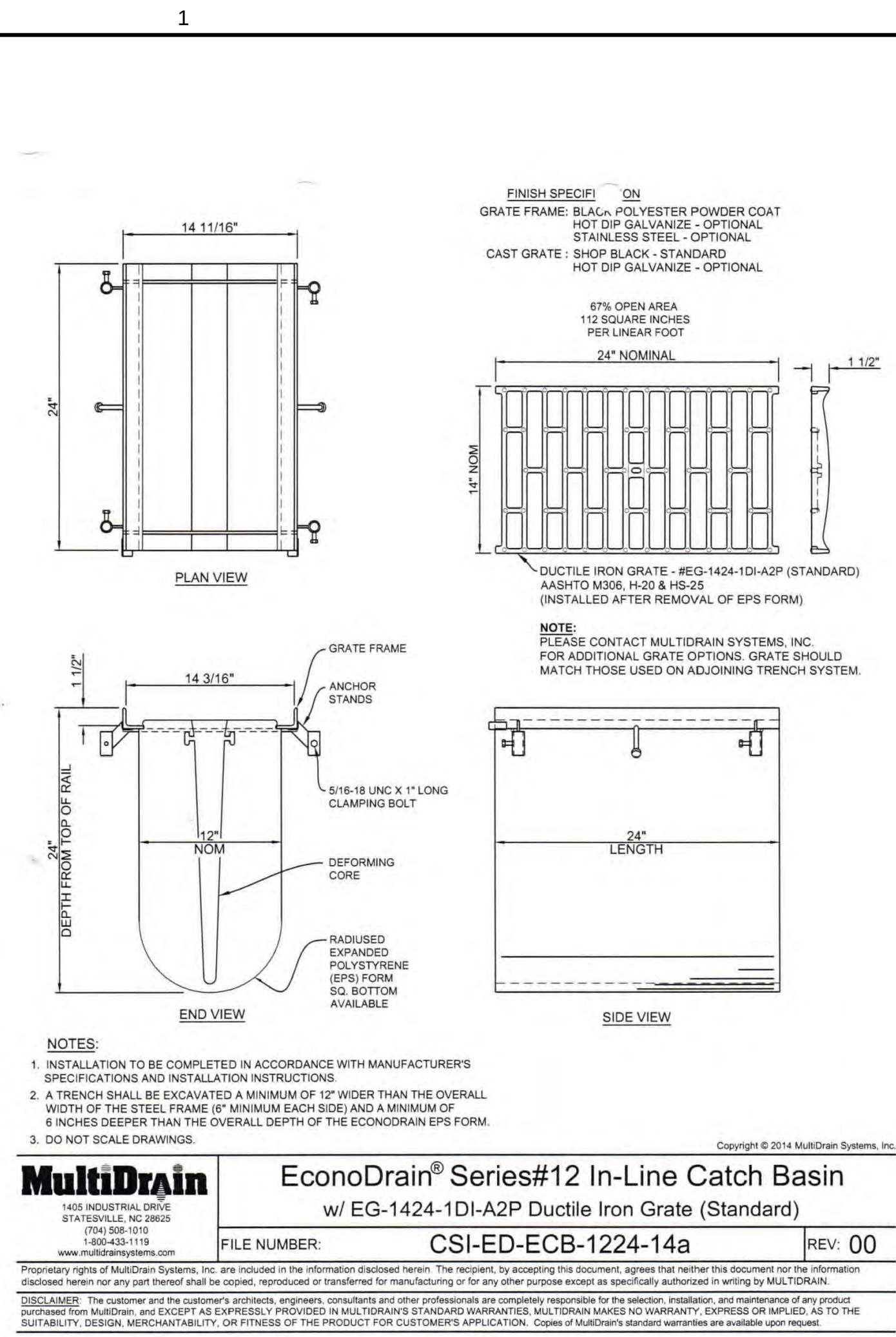
VA PROJECT NO. 15-015

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AS-BUILT INFORMATION

CONTRACTOR: _____ DATE: _____

DESIGNED BY: VAA DATE: _____

DRAWN BY: VAA DATE: _____

CHECKED BY: RRV DATE: _____

DESIGN

DESIGNED BY: VAA DATE: _____

DRAWN BY: VAA DATE: _____

CHECKED BY: RRV DATE: _____

REVISIONS

NO.	DATE	BY	REVISIONS
1	03/18/2016	mo/day/yr	1
2	04/08/2016	mo/day/yr	2
3	07/08/2016	mo/day/yr	3
4	09/29/2016	mo/day/yr	4
5	12/16/2016	mo/day/yr	5

City of Albuquerque
Capital Implementation Program
North Domingo Baca Multigenerational Center - Phase III
7521 CARMEL AVE. NE, ALBUQUERQUE, NM 87113

Drawing Title: MISCELLANEOUS DETAILS

Design Review Committee: _____ City Engineer Approval: _____

City Project No.: 7136.95 Zone Map No.: C-19-Z

Sheet: C-503

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CITY OF ALBUQUERQUE
CAPITAL IMPLEMENTATION PROGRAM

NORTH DOMINGO BACA MULTIGENERATIONAL CENTER - PHASE III
7521 CARMEL AVE. NE, ALBUQUERQUE, NM 87113

Drawing Title: MISCELLANEOUS DETAILS

Design Review Committee: _____ City Engineer Approval: _____

City Project No.: 7136.95 Zone Map No.: C-19-Z

Sheet: C-503