

site data

LOCATION: 8620 PRESIDENT PLACE NE
ALBUQUERQUE, NM 87113

LEGAL DESCRIPTION: TR. B-1-A-5, CLIFFORD INDUSTRIAL PARK

CURRENT ZONING: M-1 OR SU-2, NC

ZONE ATLAS PAGE: C-17

TOTAL LOT AREA: 43,705 SQ. FT. (1.0025 AC)

GROSS BUILDING AREA: 15,750 S.F.

NET LOT AREA: 27,855 S.F.

LANDSCAPE AREA REQUIRED: 4193 S.F.

LANDSCAPE AREA PROVIDED: 4400 S.F.

PARKING REQUIREMENT

PRODUCTION FRAMING: 1 SPACE / 1000 S.F.
5765 S.F. / 1000 = 5.7 SPACES

DESIGNER WAREHOUSE: 1 SPACE / 2000 S.F.
2825 S.F. / 2000 = 1.4 SPACES

OFFICE: 1 SPACE / 200 S.F.
7050 S.F. / 200 = 35.2 SPACES

42.3 SPACES
-10% (4.23) REDUCTION FOR TRANSIT

TOTAL OF 38 SPACES REQUIRED

PARKING PROVIDED

38 PARKING SPACES PROVIDED (INCLUDING 3 ACCESSIBLE SPACES)
2 MOTORCYCLE SPACES PROVIDED
5 BICYCLE SPACES PROVIDED

PAVING SPECIFICATION
SEE GEOTECHNICAL REPORT PREPARED FOR THIS SITE DATED
10-22-14 FOR ALL PAVING REQUIREMENTS.

a new facility for:

Kirkpatrick & Associates, Inc.

8610 president place NE
albuquerque NM 87113

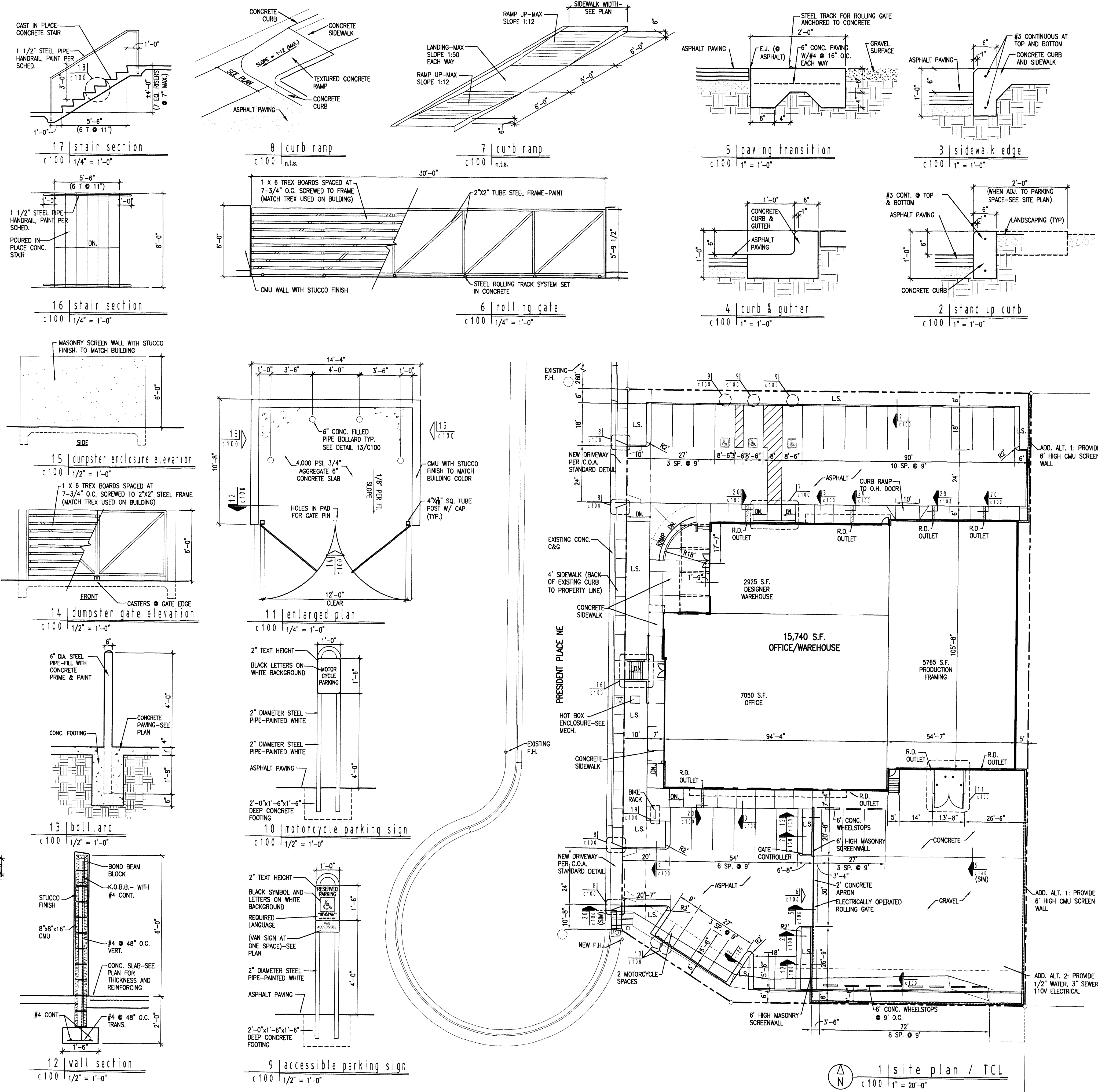
slagleherrarchitects
413 second st sw
albuquerque nm
87102
5052460870
slagleherr.com

SITE PLAN / TCL, SITE DETAILS



revisions

date
10-27-14
sheet
C100



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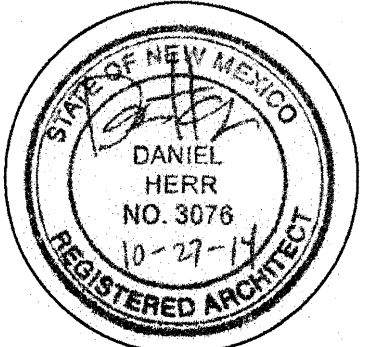
Kirkpatrick & Associates, Inc.

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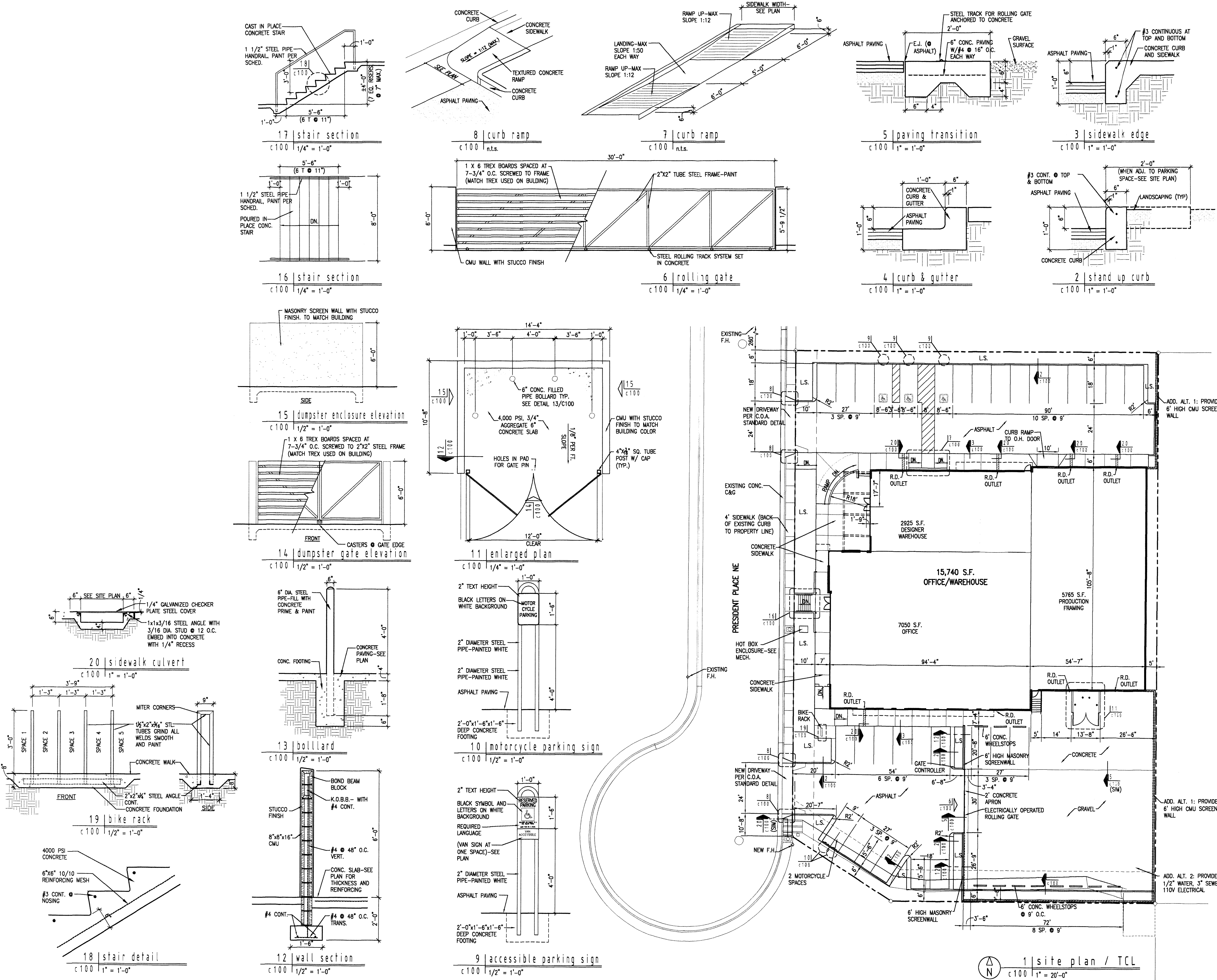
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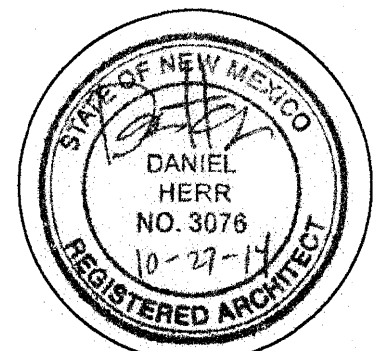
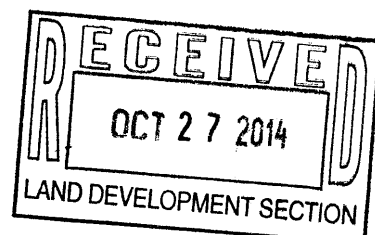
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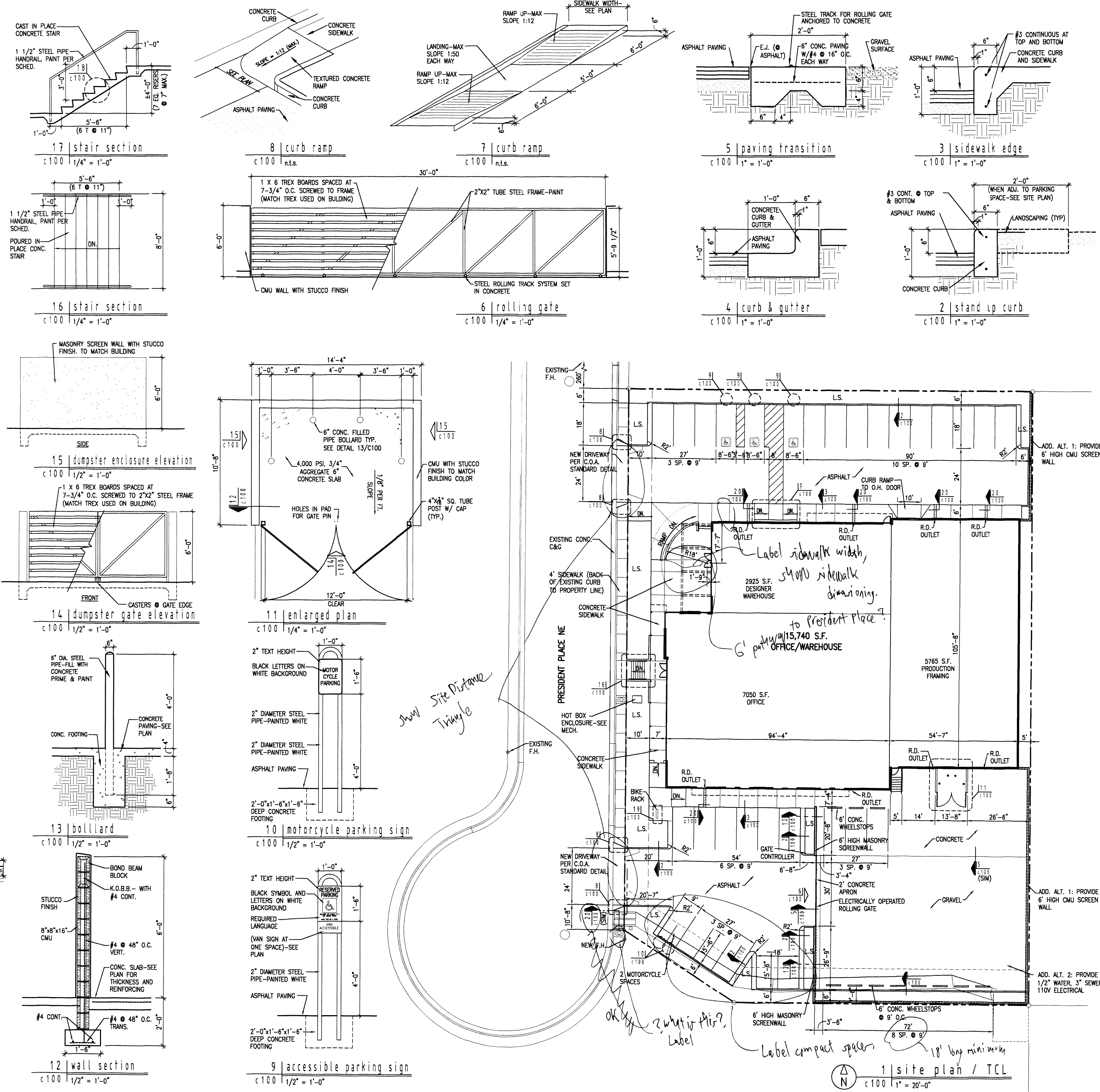
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LOCATION:	8610 PRESIDENT PLACE NE ALBUQUERQUE, NM 87113
LEGAL DESCRIPTION:	TR. B-1-A-S, CLIFFORD INDUSTRIAL PARK
CURRENT ZONING:	M-1 OR SU-2 NC
ZONE ATLAS PAGE:	C-17
TOTAL LOT AREA:	43,705 SQ. FT. (1.0025 AC)
GROSS BUILDING AREA:	16,070 S.F.
SCREENED YARD	8750 S.F.
NET LOT AREA:	18,885 S.F.

PARKING PROVIDED

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MINI CLEAR SITE TRIANGLE
LANDSCAPING AND SIGNAGE WILL NOT INTERFERE WITH CLEAR SIGHT
REQUIREMENTS. THEREFORE, SIGNS, WALLS, TREES, AND
SHRUBBERY BETWEEN 3 AND 8 FEET TALL (AS MEASURED FROM
THE GUTTER PAN) WILL NOT BE ACCEPTABLE IN THIS AREA.

A map showing the location of the Project Site. The site is marked with a dot and labeled "PROJECT SITE: 6810 PRESIDENT PL. NE". It is situated near the intersection of Alameda Blvd and Washington St. Other nearby streets shown include 10th St, 11th St, and Paseo del Norte. The map also shows a river or canal to the right of the project site.

8610 president place NE
albuquerque NM 87113

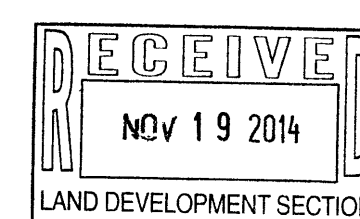
slaglehrrarchitects

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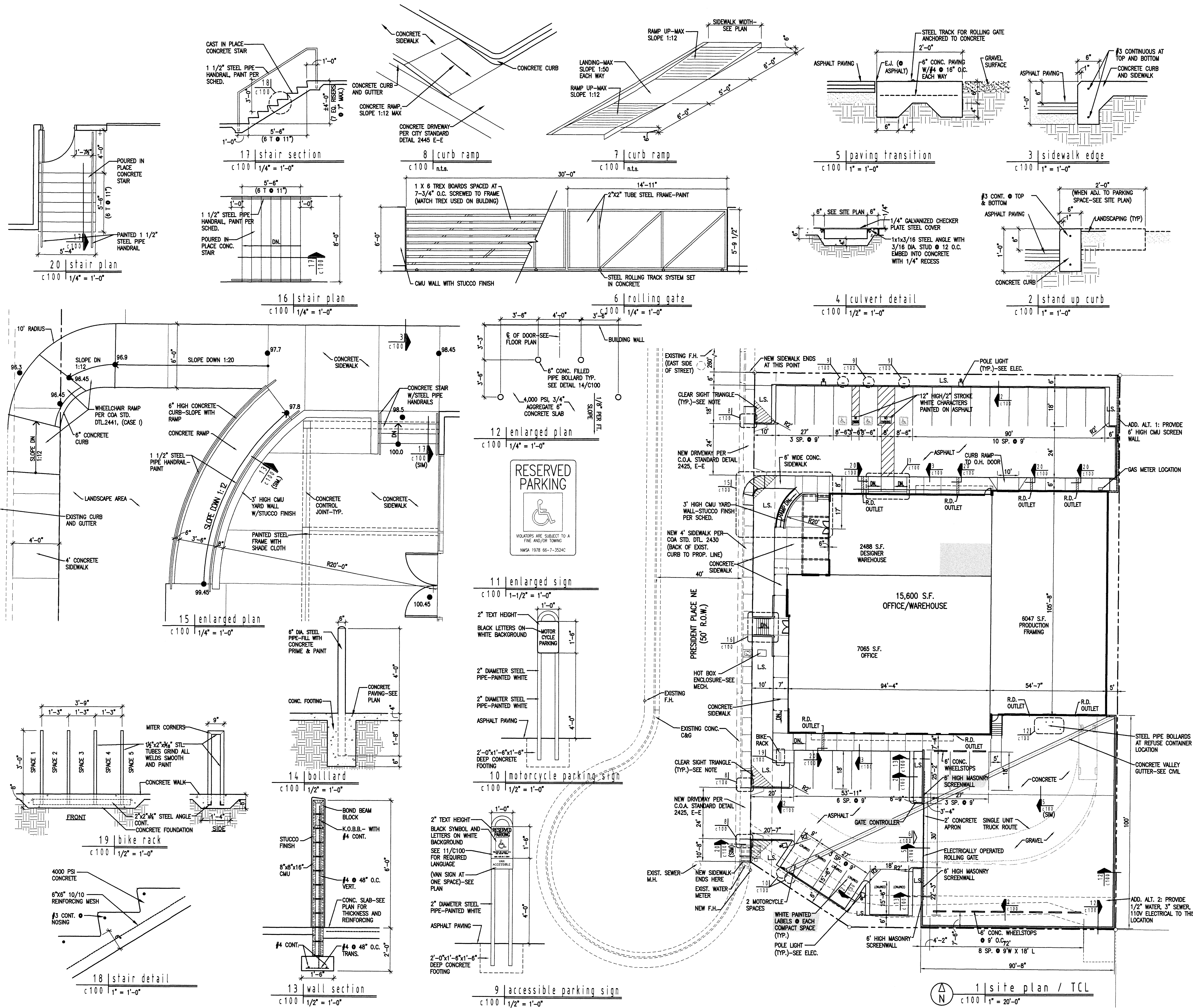
SITE PLAN / TCL, SITE DETAILS



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11-19-14
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C100



site data

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ALBUQUERQUE, NM 87113

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OFFICE: 1 SPACE / 200 S.F.
7065 S.F. / 200 = 35.3 SPACES

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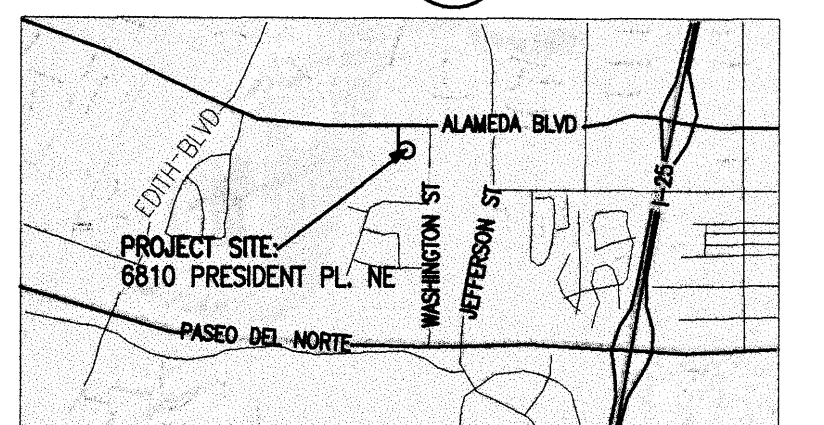
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vicinity map



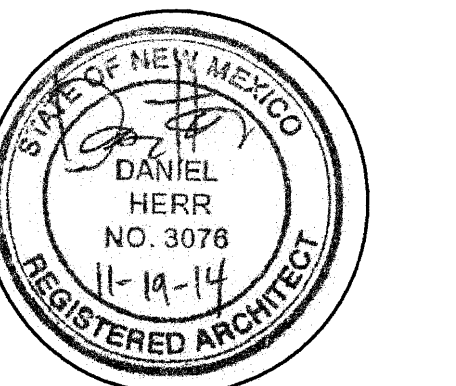
a new facility for:
Kirkpatrick & Associates, Inc.

8610 president place NE
albuquerque NM 87113

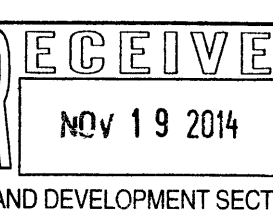
slagleherrarchitects

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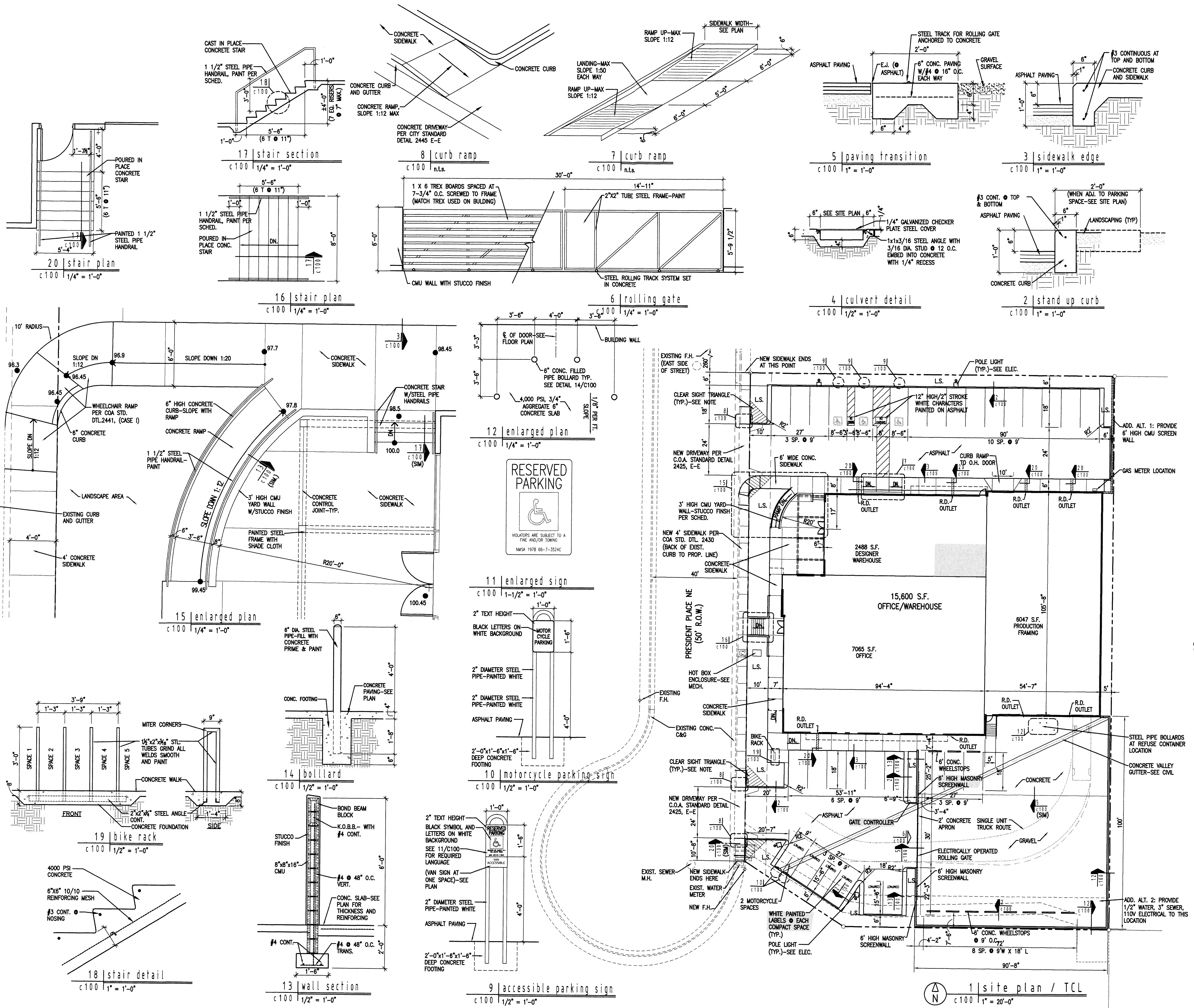
SITE PLAN / TCL, SITE DETAILS



revisions



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A map of the project site area. The map shows several streets: EDITH BLVD running diagonally from the top left; ALAMEDA BLVD running horizontally across the top; PASO DEL NORTE running horizontally across the bottom; WASHINGTON ST running vertically in the center; and AFTERSON ST running vertically on the right. The project site is marked with a dot and labeled "PROJECT SITE: 6810 PRESIDENT PL. NE". A north arrow is located at the top center of the map.

a new facility for:

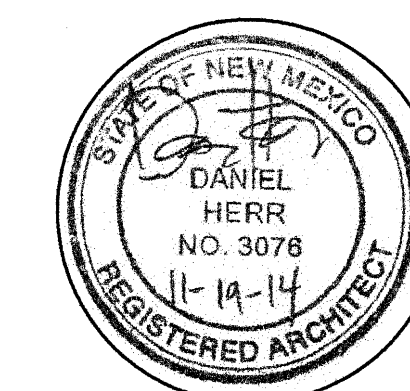
Kirkpatrick
& Associates, Inc.

8610 president place NE
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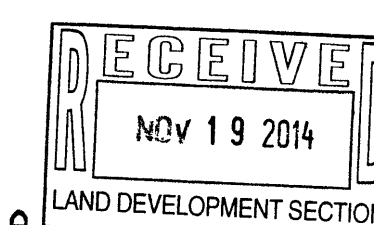
slagleherrarchitects

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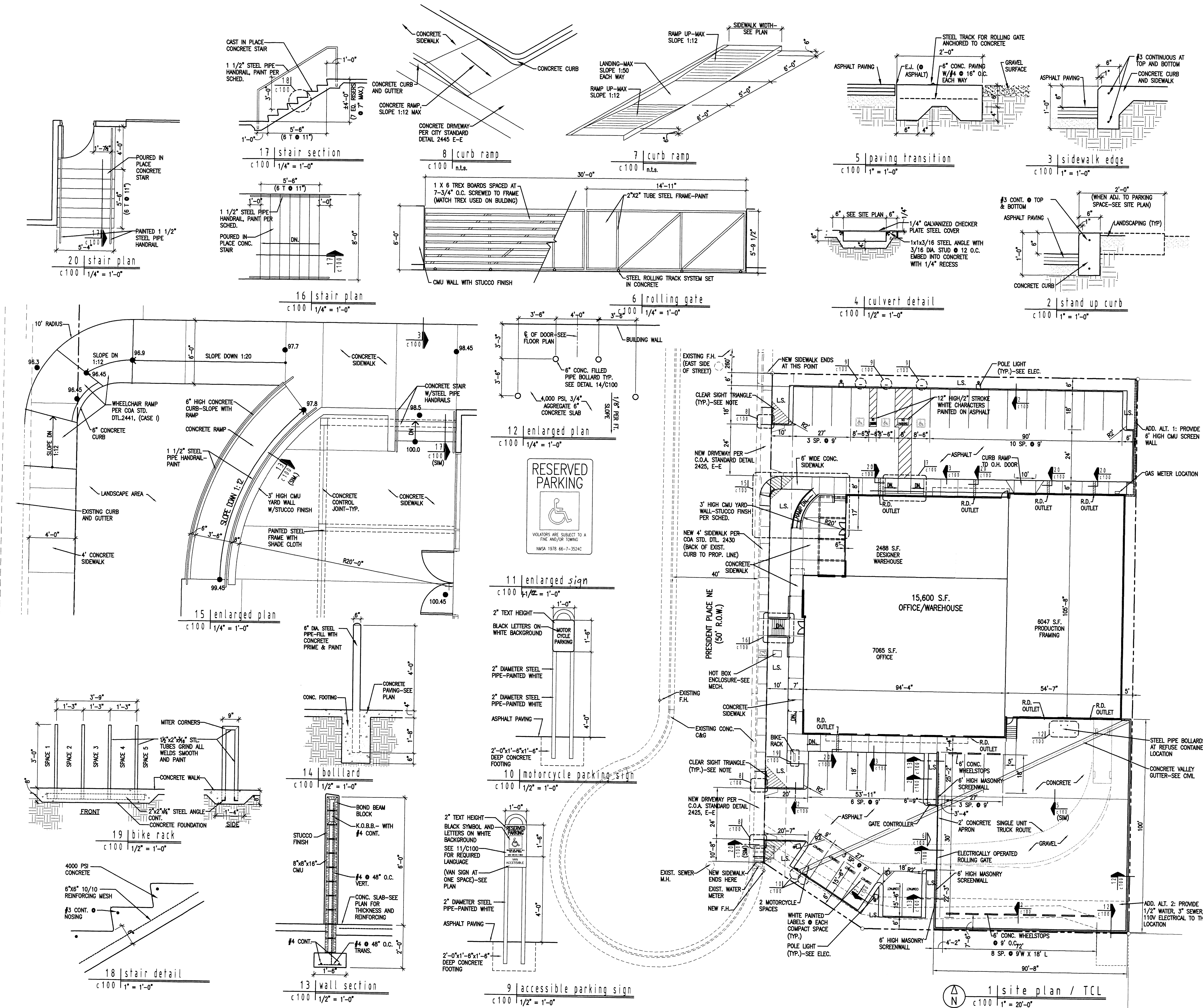
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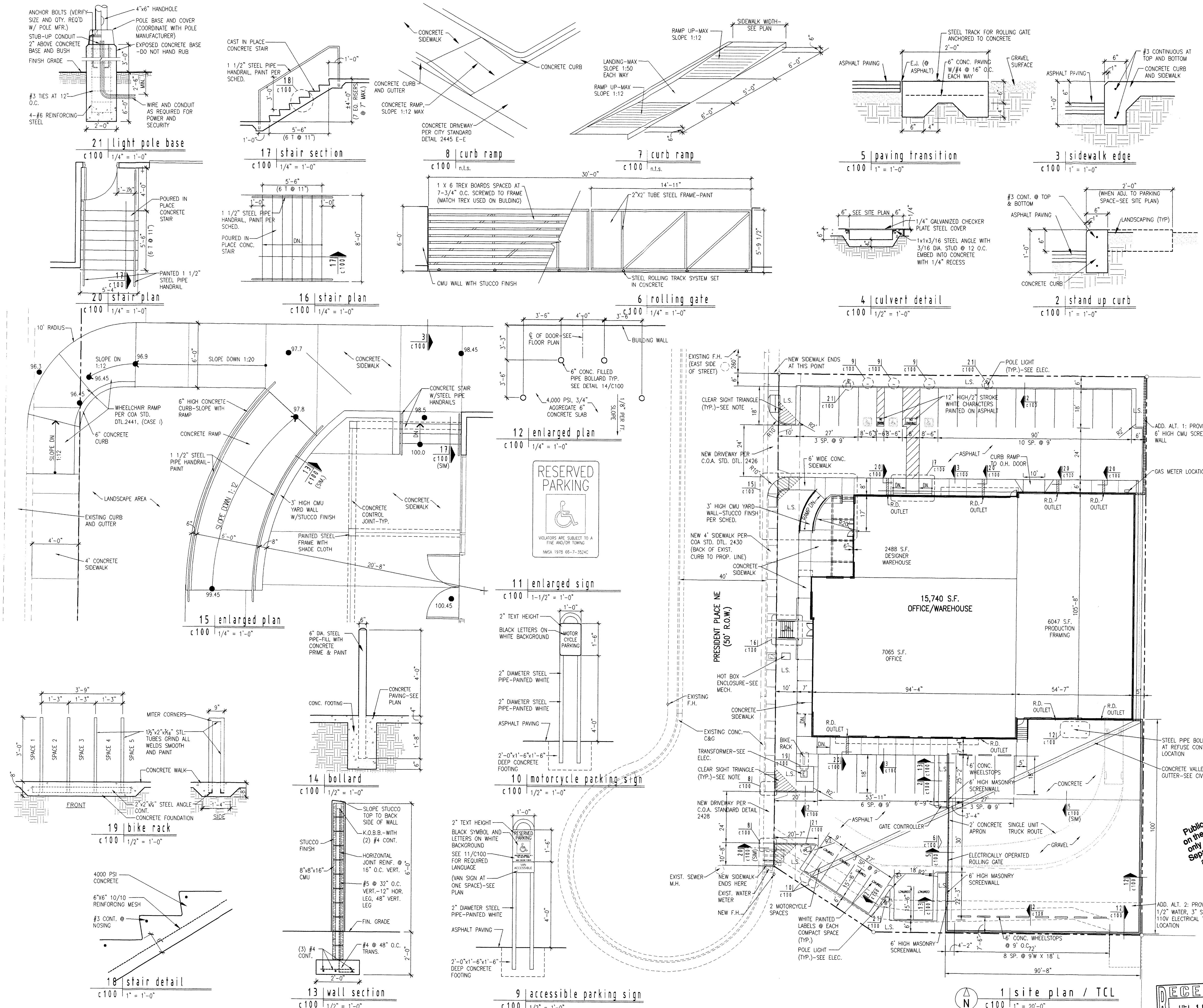


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date **11-19-14**
sheet **C100**

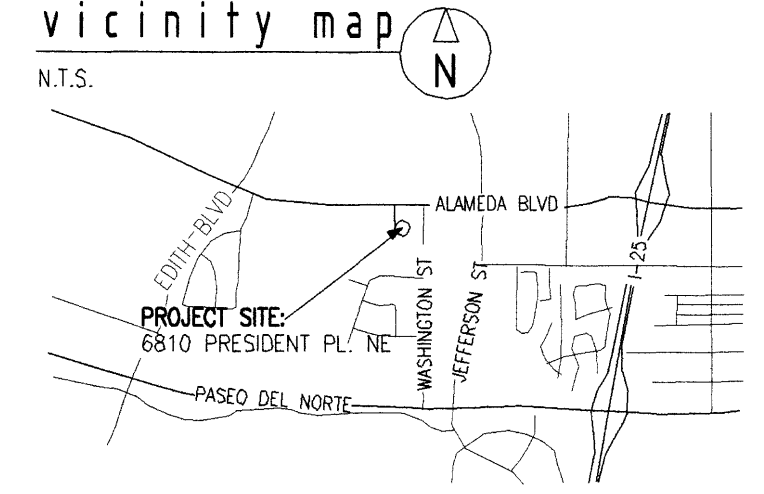




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NET LOT AREA:	18,745 S.F.

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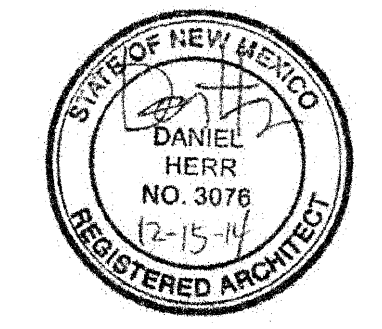
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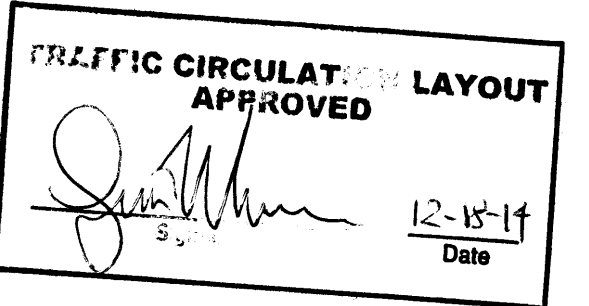
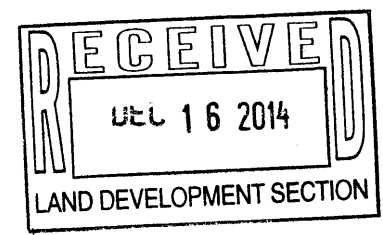
SITE PLAN / TCL, SITE DETAILS

Public Infrastructure shown
on these plans for information
only and not part of approval.
Separate DRC/permit approval
and Work Order required.

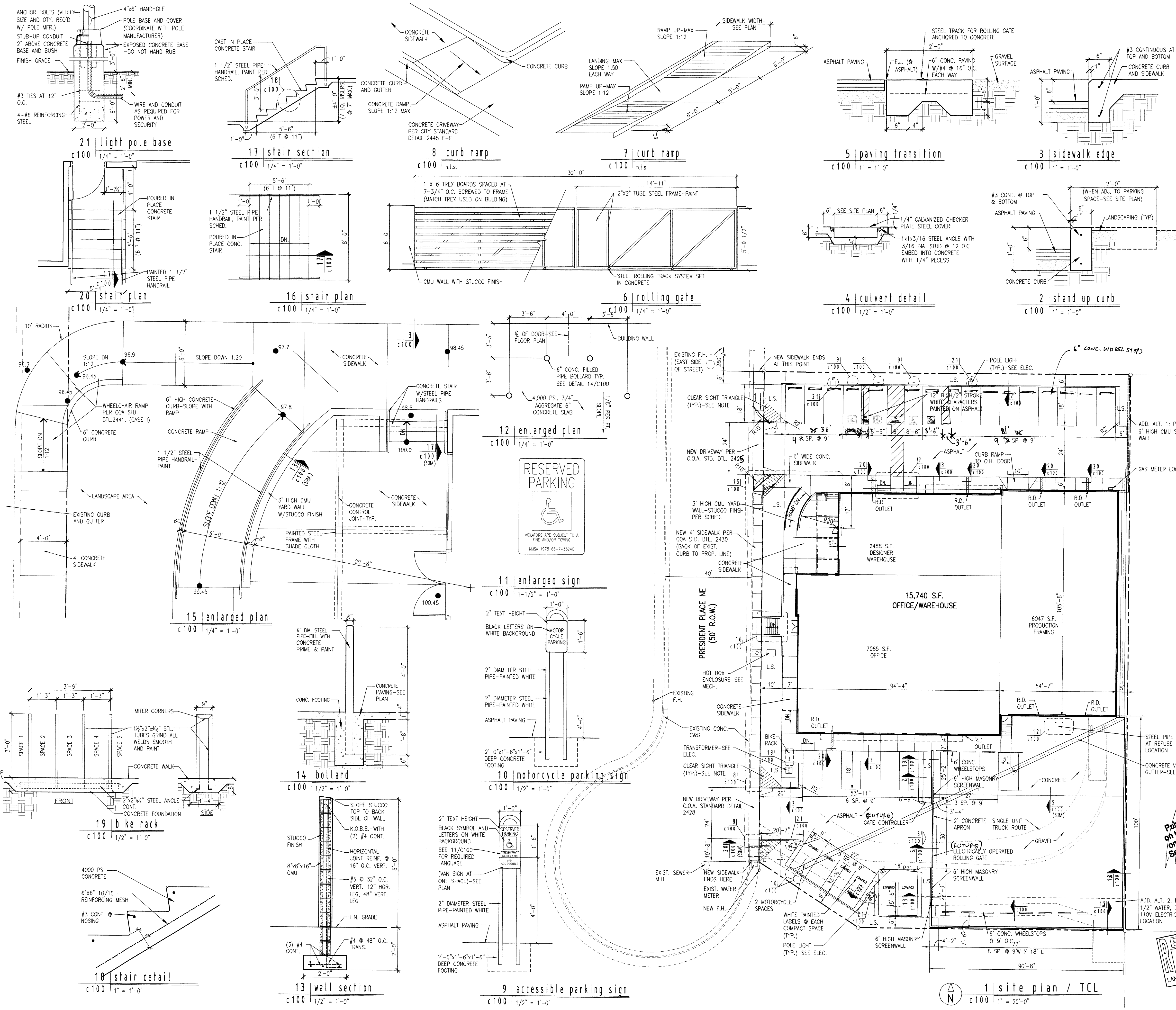


revisions

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ALL WHEELCHAIR RAMPS LOCATED
WITHIN THE PUBLIC RIGHT OF WAY
MUST HAVE TRUNCATED DOMES.



site data

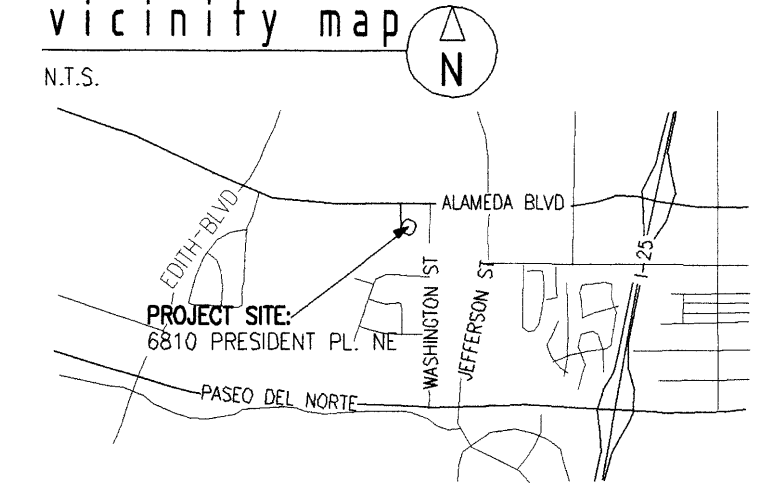
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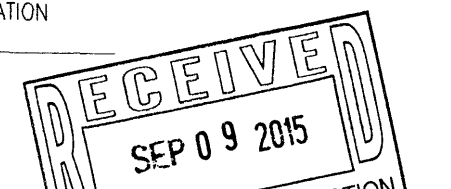
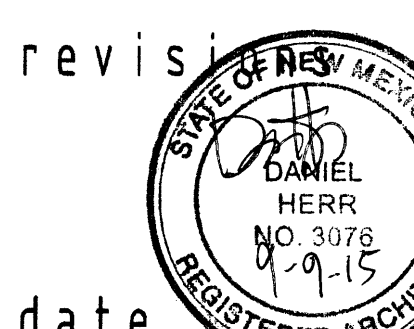
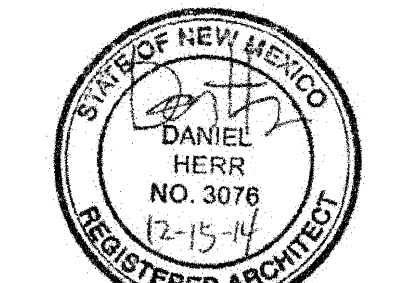
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revised

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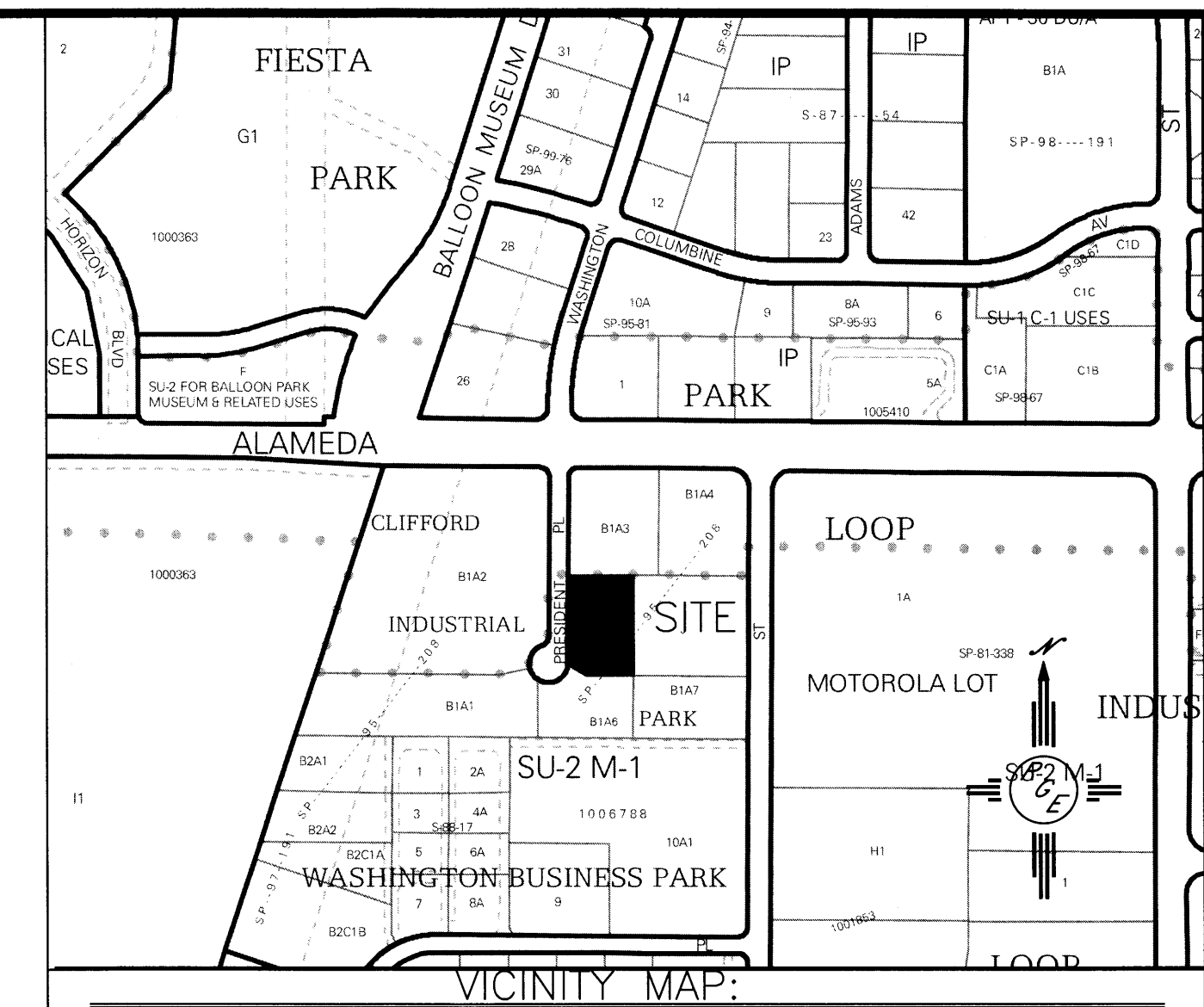
TRAFFIC CIRCULATION LAYOUT APPROVED

[Signature] 12-18-14
 Date

ALL WHEELCHAIR RAMPS LOCATED
 WITHIN THE PUBLIC RIGHT OF WAY
 MUST HAVE TRUNCATED DOMES.

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.



LEGAL DESCRIPTION:

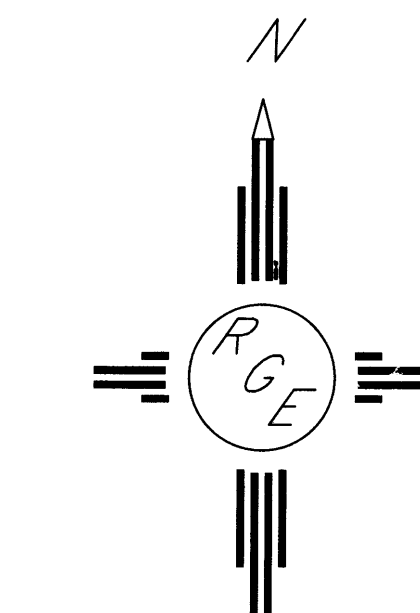
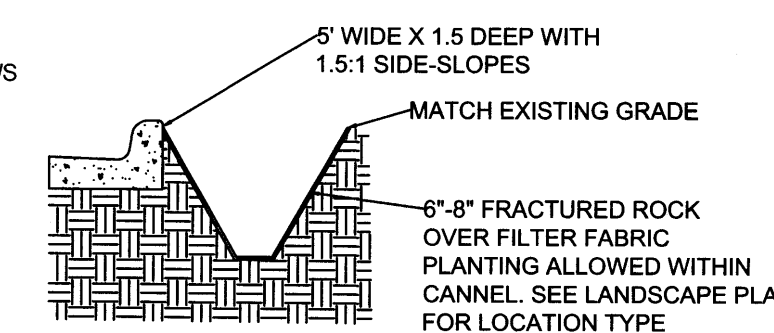
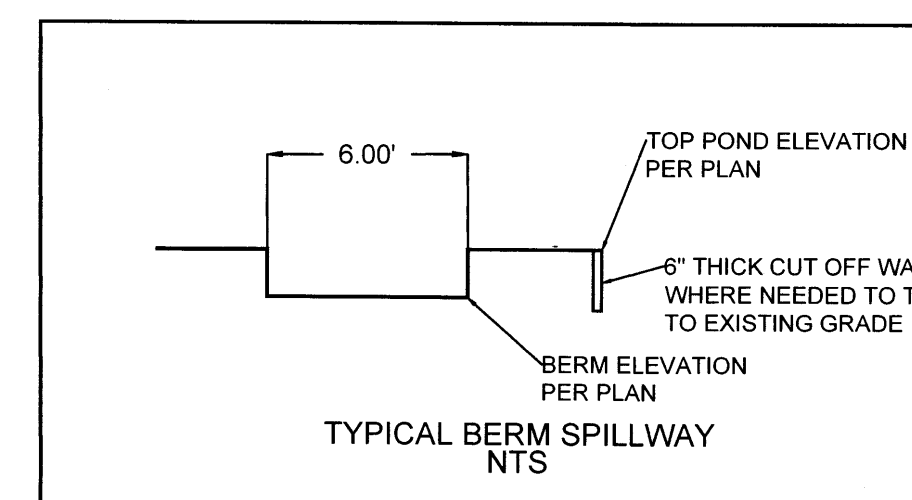
Tract B-1-A-5, Clifford Industrial Park

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY Christopher J. Dehler, NMLS 7923
3. ONSITE CURB SHALL BE 6" UNLESS OTHERWISE NOTED
4. ALL POND SHALL BE LINED WITH 6-8" FRACTURED ROCK. LANDSCAPING SHALL BE INSTALLED WITHIN ROCK.

LEGEND

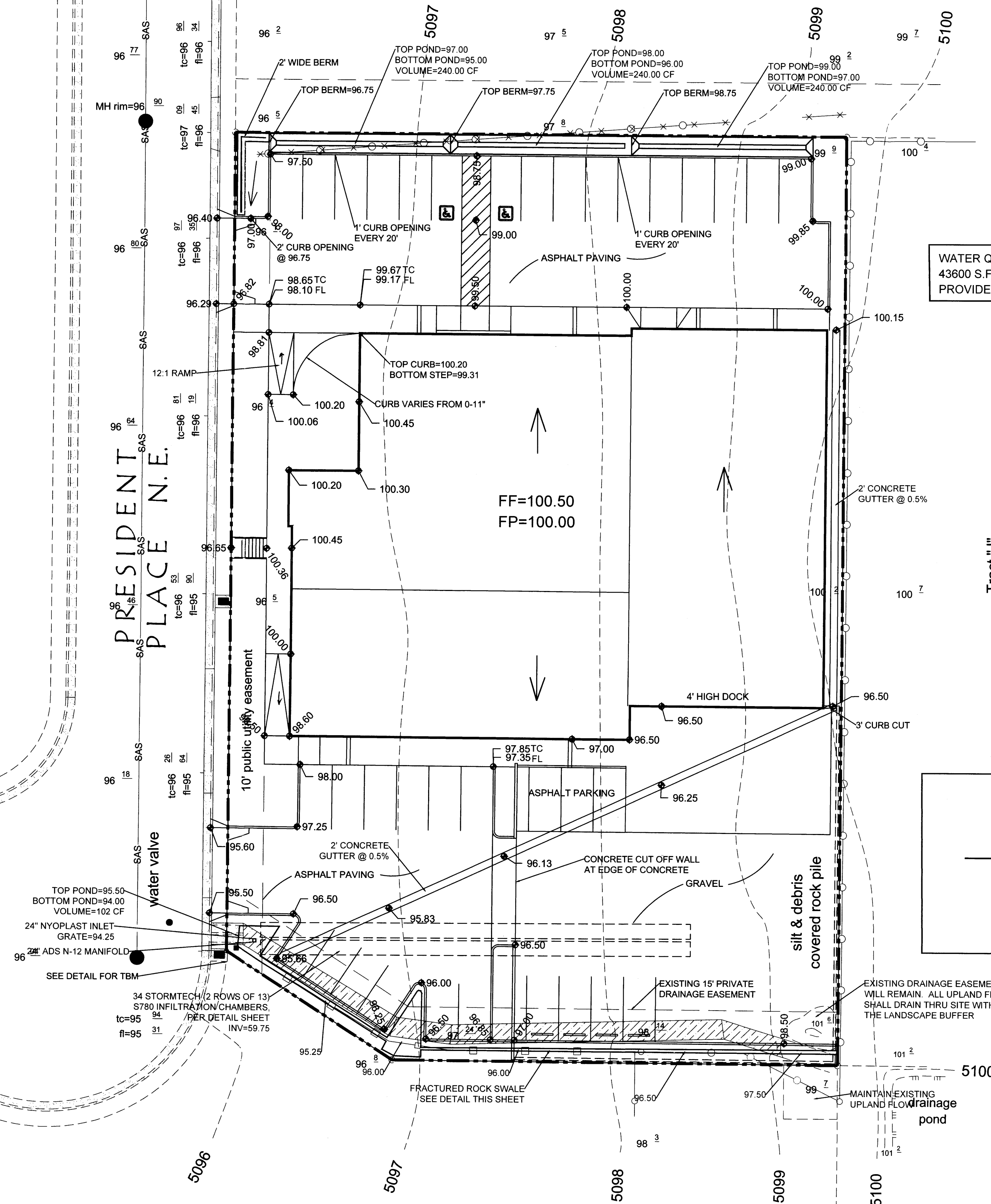
- - - -5411- - - - EXISTING CONTOUR
- - - -5410- - - - EXISTING INDEX CONTOUR
- 5411———— PROPOSED CONTOUR
- 5410———— PROPOSED INDEX CONTOUR
- DESIGN ELEVATION



GRAPHIC SCALE

SCALE: 1"=20'

Tract B-1-A-3 CLIFFORD INDUSTRIAL PARK Filed 8/31/1995, Volume 95C, Folio 331

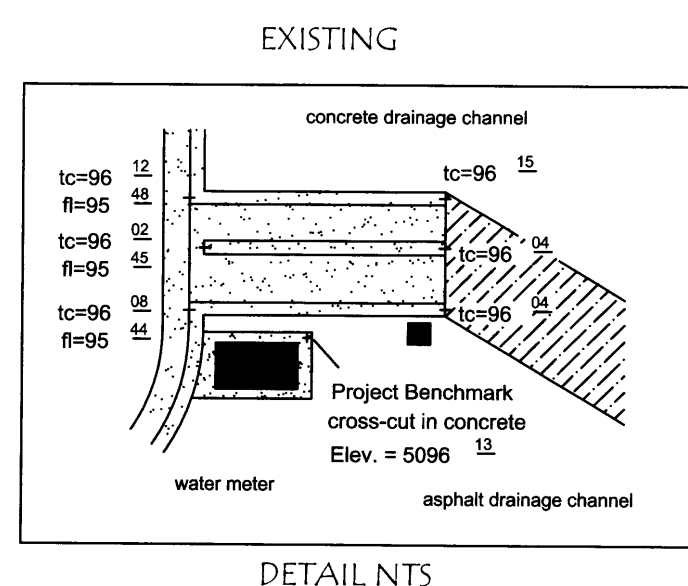


WATER QUALITY REQUIREMENT
43600 S.F. X .34/12=1237 CF
PROVIDED= 2678 CF

Tract "J" CLIFFORD INDUSTRIAL PARK Filed 6/28/1988, Vol. C36, Folio 181

Tract B-1-A-6 CLIFFORD INDUSTRIAL PARK Filed 8/31/1995, Volume 95C, Folio 331

Tract B-1-A-7 CLIFFORD INDUSTRIAL PARK Filed 8/31/1995, Volume 95C, Folio 331



Elevations shown hereon are NAVD88 values. Project Benchmark is a cross-cut in concrete at the southwest corner of Tract B-1-A-5, elevation = 5096.13 feet. Provided by Christopher J. Dehler, NMLS 7923

RECEIVED
NOV 26 2014

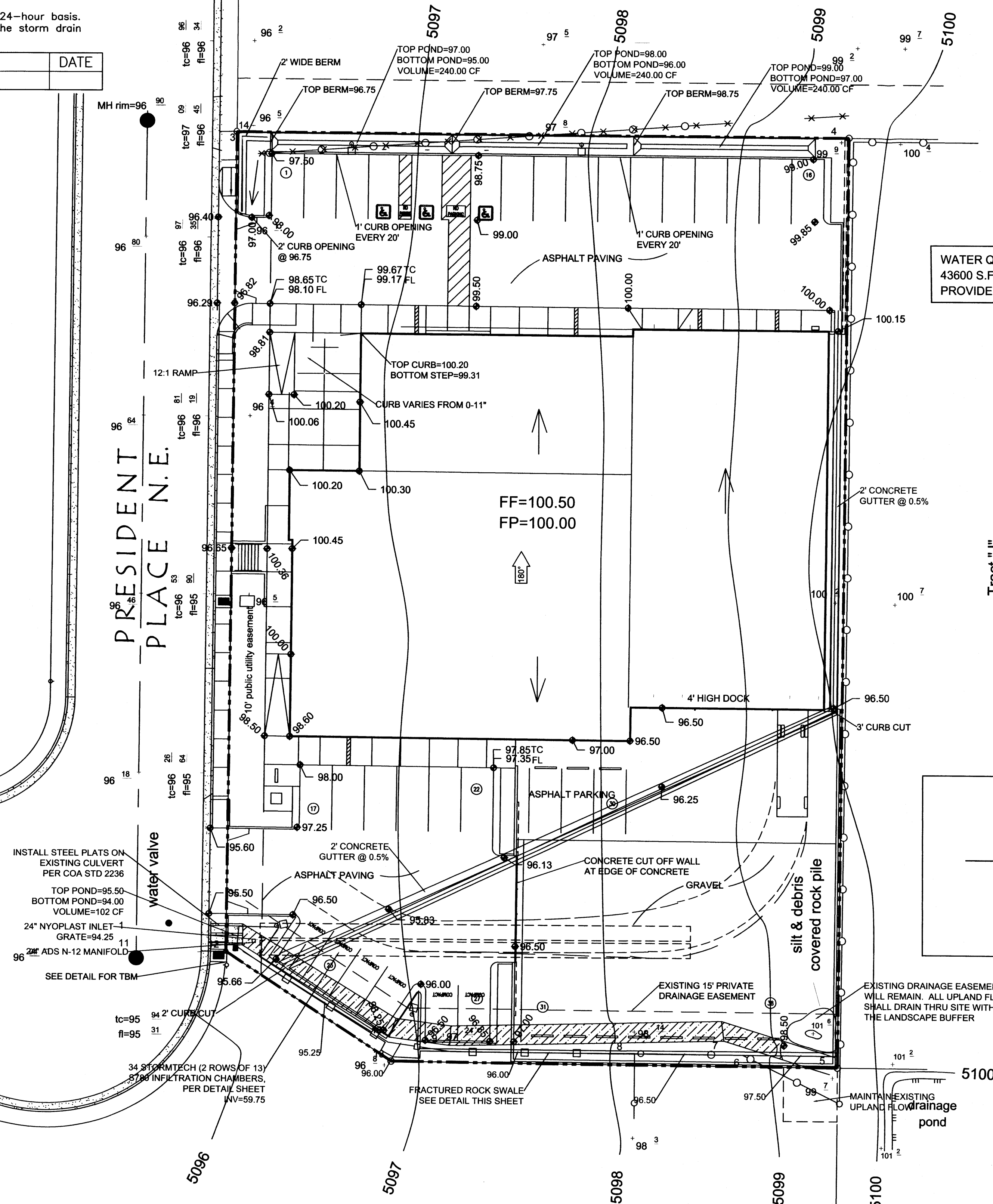
ENGINEER'S SEAL DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 11/26/14	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK GRADING AND DRAINAGE PLAN	LAND DEVELOPMENT SECTION BY JDC DATE 11-26-2014
	Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # 1 OF 1 JOB #

PRIVATE DRAINAGE IMPROVEMNET IN PUBLIC ROW
NOTICE TO CONTRACTORS

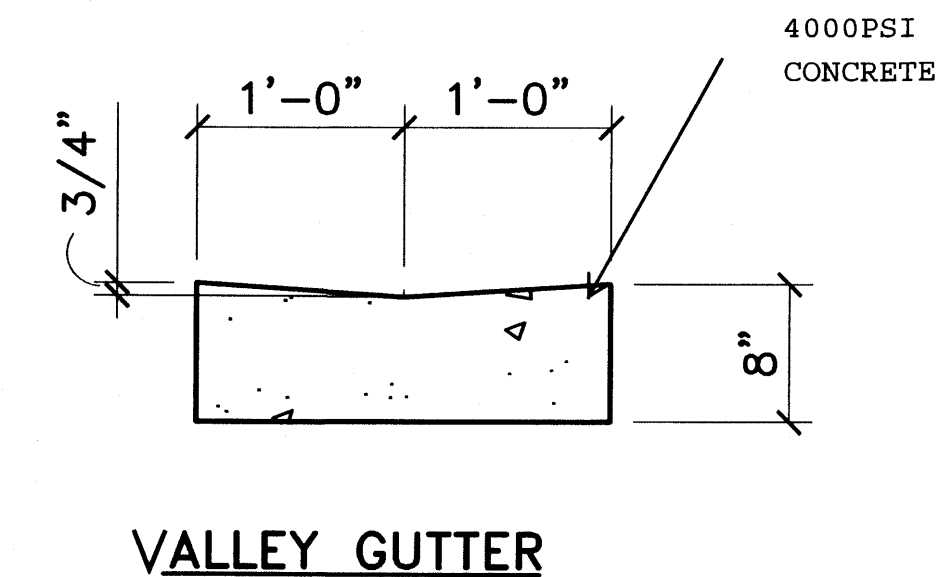
- Notice to Contractor
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APPROVAL	NAME	DATE
INSPECTOR		

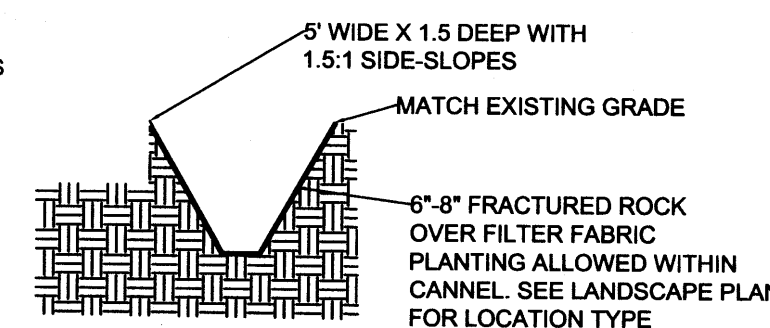
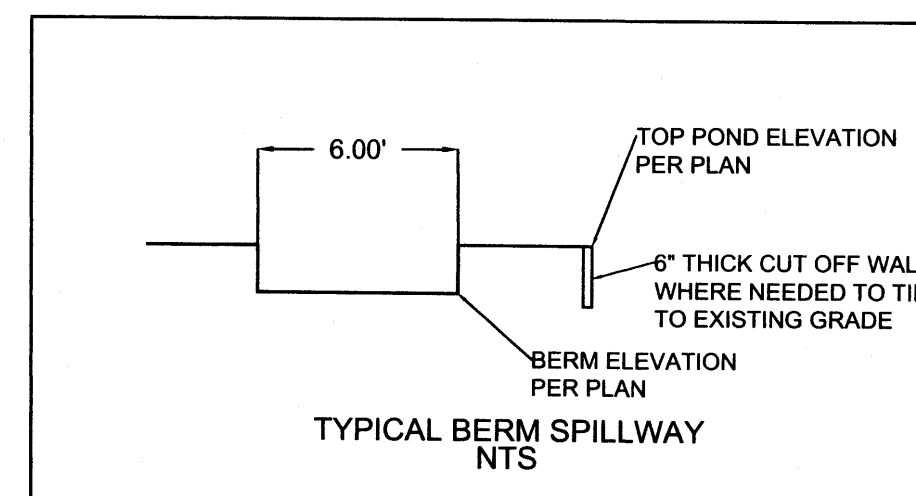
Tract B-1-A-3
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 331



WATER QUALITY REQUIREMENT
43600 S.F. X .34/12=1237 CF
PROVIDED=2678.00 CF



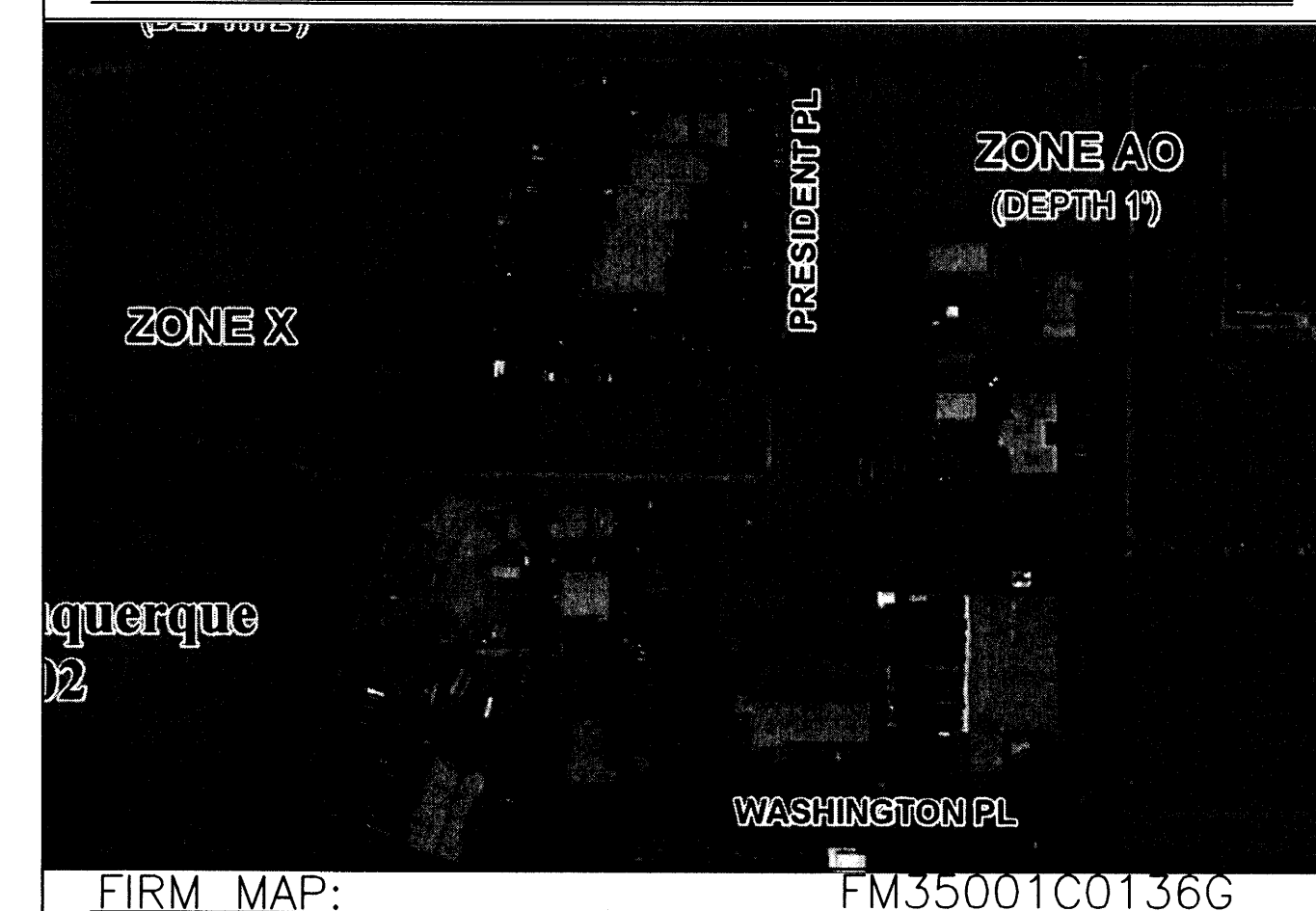
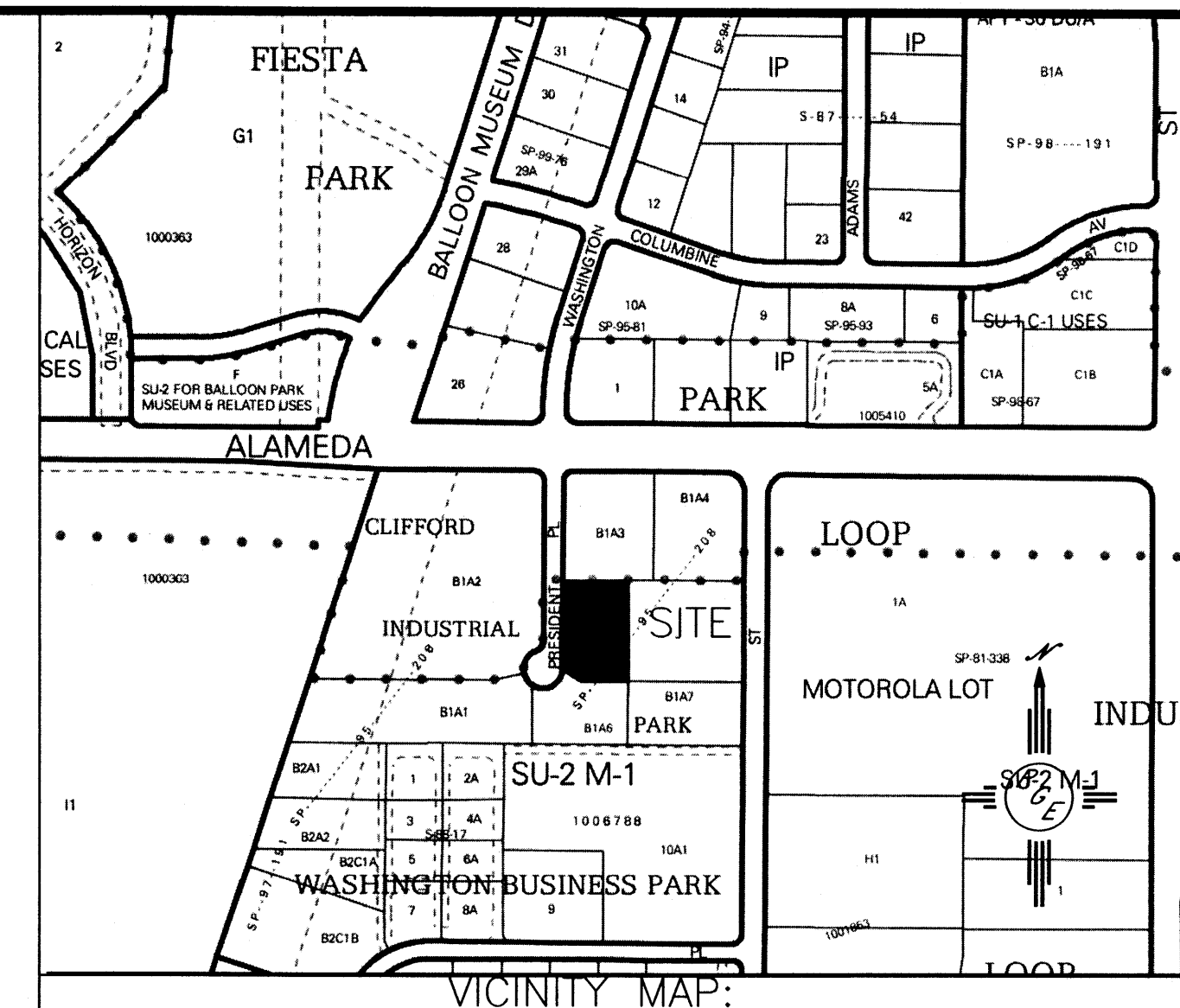
Tract "J"
CLIFFORD INDUSTRIAL PARK
Filed 6/28/1988, Vol. C36, Folio 181



Tract B-1-A-7
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 331

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
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4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
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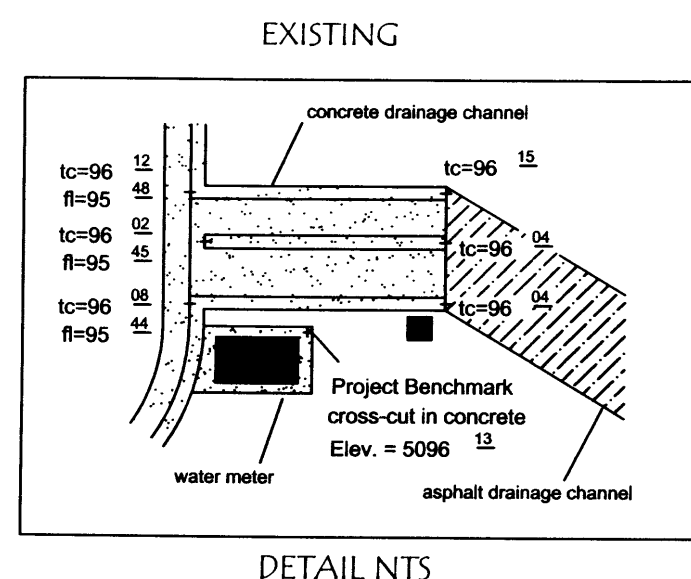
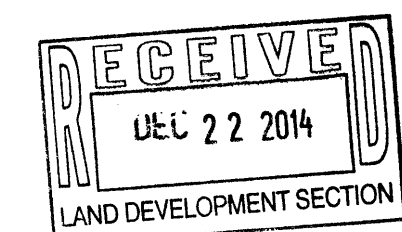
Tract B-1-A-5, Clifford Industrial Park

NOTES:

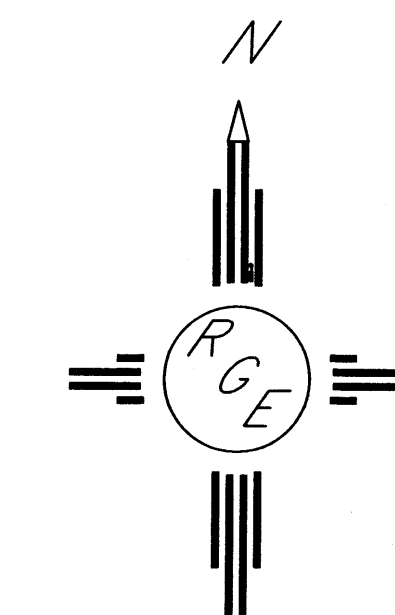
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LEGEND

- - - -5411- - - - - EXISTING CONTOUR
- - - -5410- - - - - EXISTING INDEX CONTOUR
- - - -5411- - - - - PROPOSED CONTOUR
- - - -5410- - - - - PROPOSED INDEX CONTOUR
- DESIGN ELEVATION



Elevations shown hereon are NAVD88 values. Project Benchmark is a cross-cut in concrete at the southwest corner of Tract B-1-A-5, elevation = 5096.13 feet. Provided by Christopher J. Dehler, NMLS 7923



ENGINEER'S SEAL DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522 12/22/14 DAVID SOULE P.E. #14522	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK GRADING AND DRAINAGE PLAN <i>Rio Grande Engineering</i> 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	DRAWN BY JDC DATE 11-26-2014 SHEET # 1 OF 1 JOB #
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PRIVATE DRAINAGE IMPROVEMNET IN PUBLIC ROW

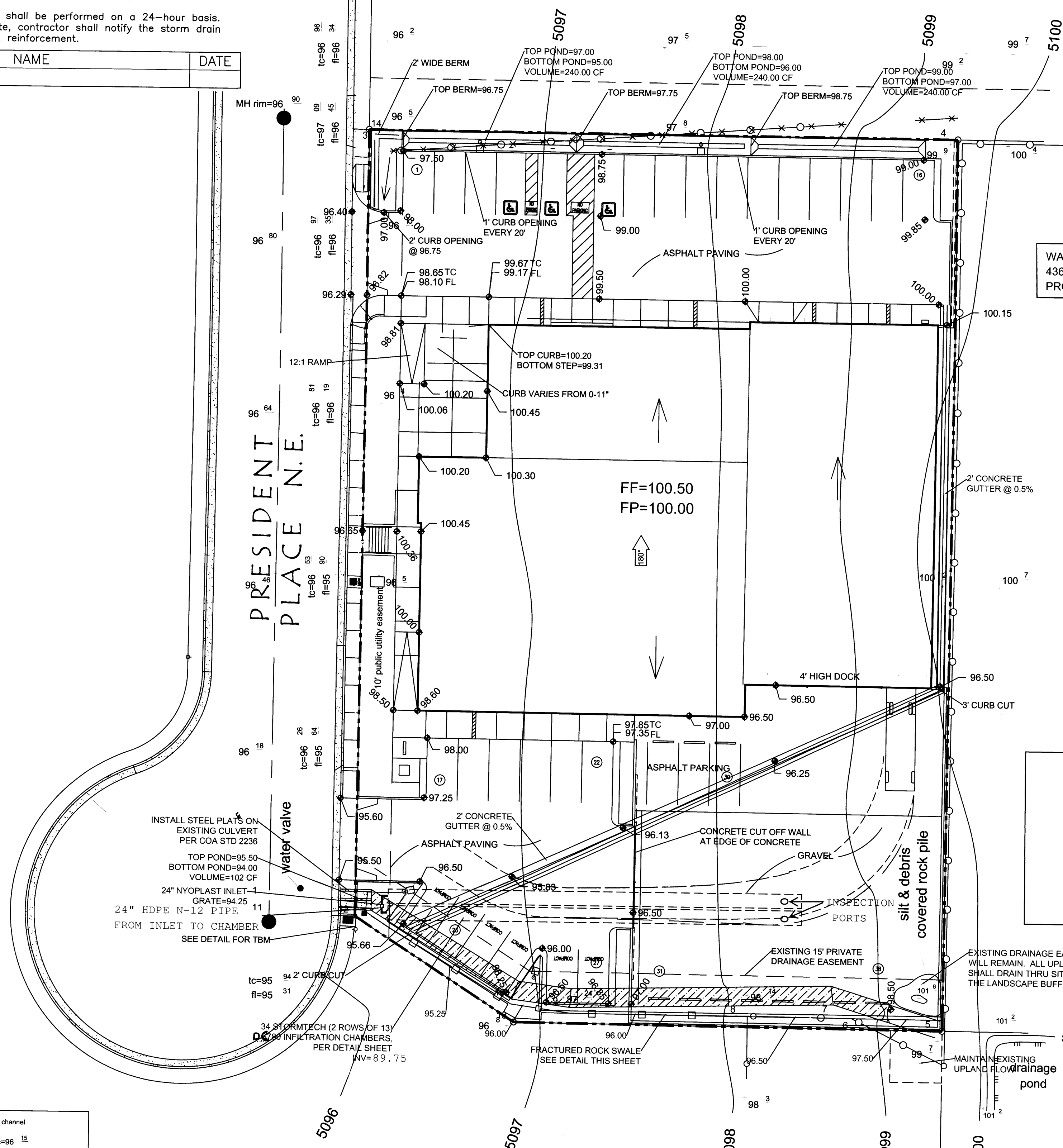
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APPROVAL	NAME	DATE
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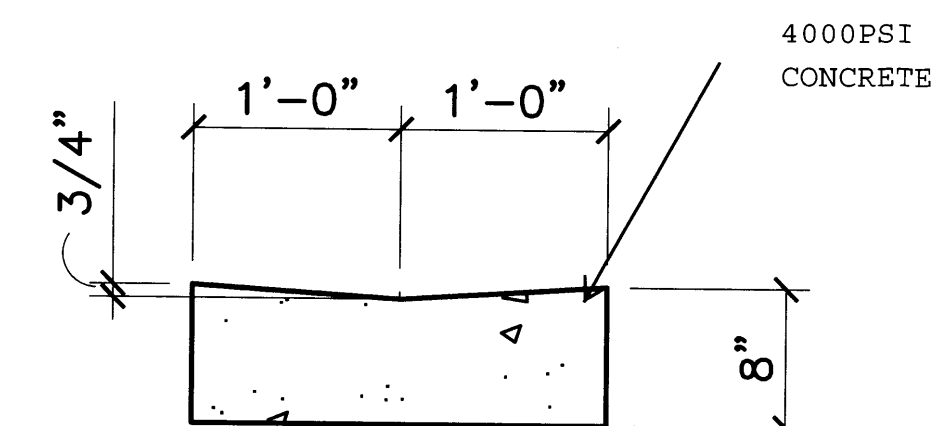
Tract B-1-A-3
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 331



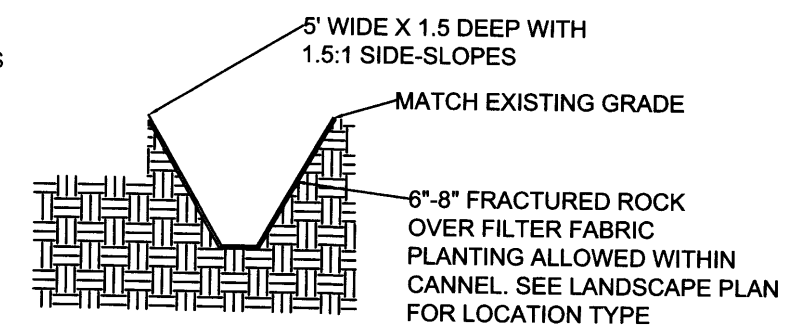
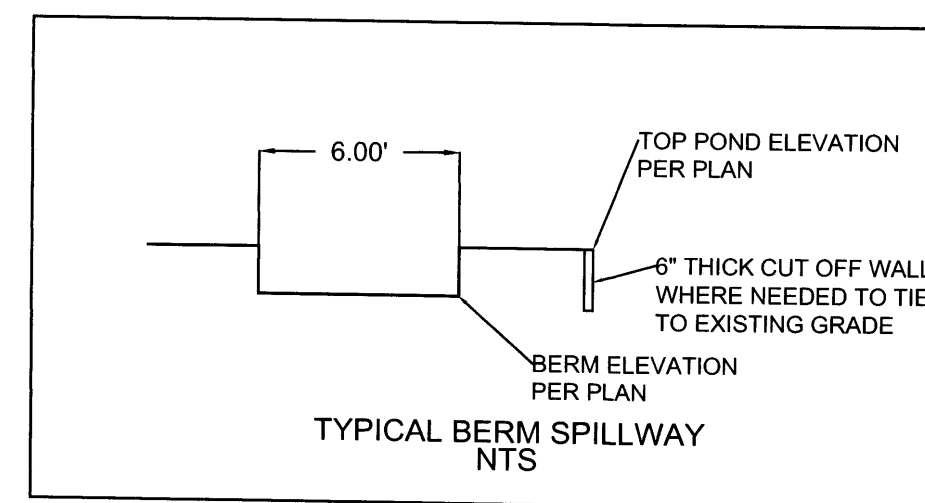
WATER QUALITY REQUIREMENT
43600 S.F. X .34/12=1237 CF
PROVIDED=2678.00 CF

EROSION CONTROL NOTES:

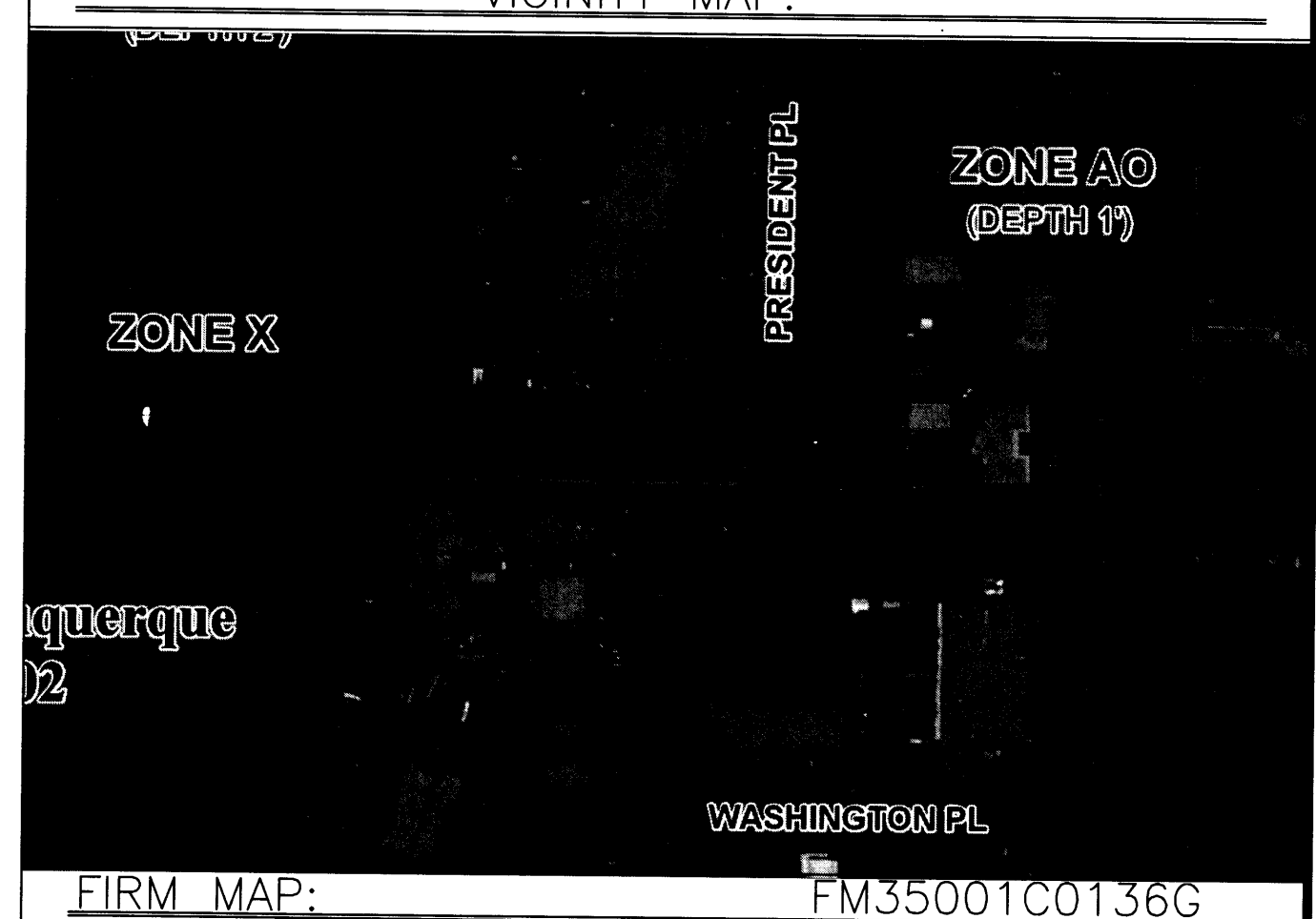
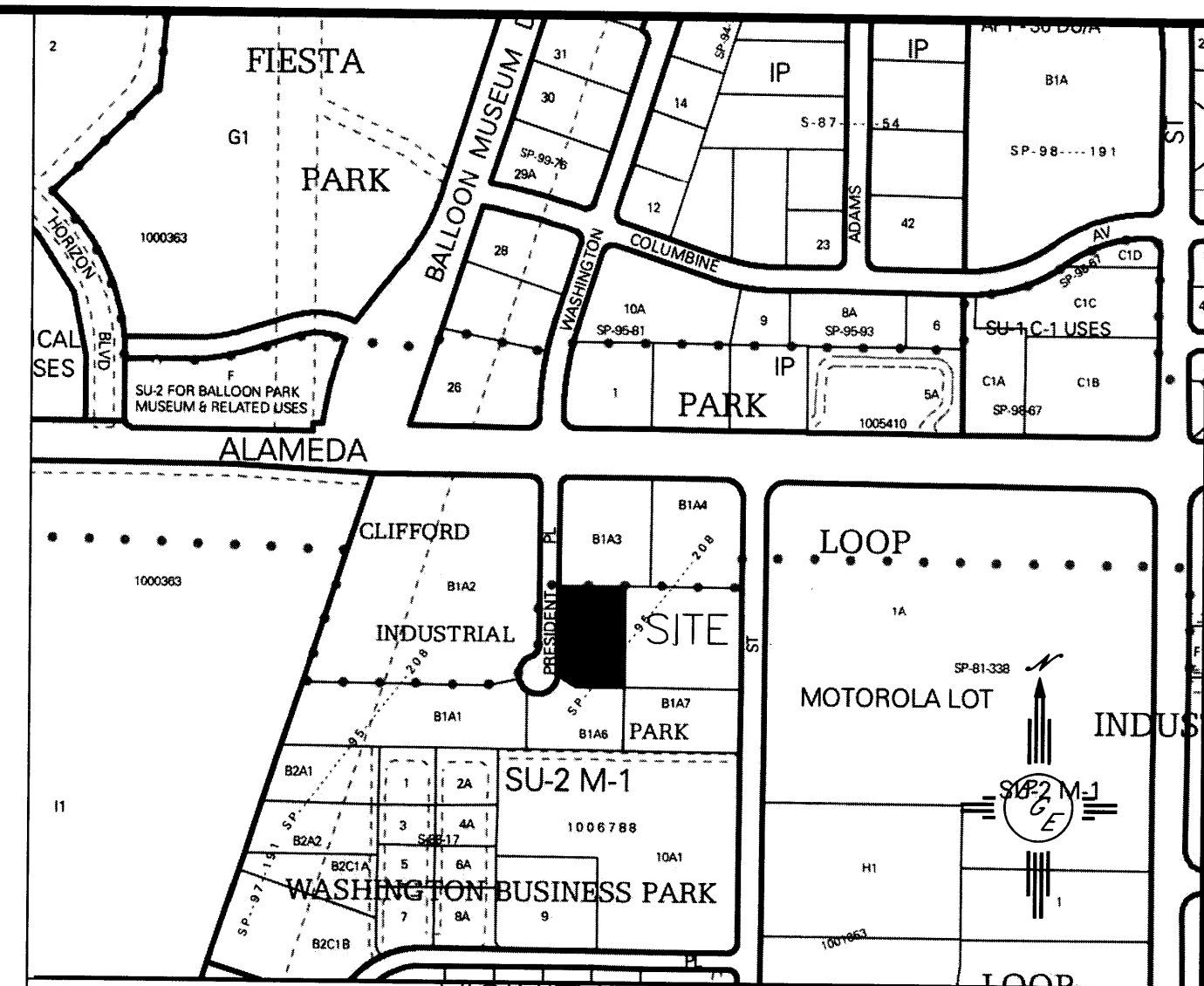
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VALLEY GUTTER



Tract B-1-A-7
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 331



LEGAL DESCRIPTION:

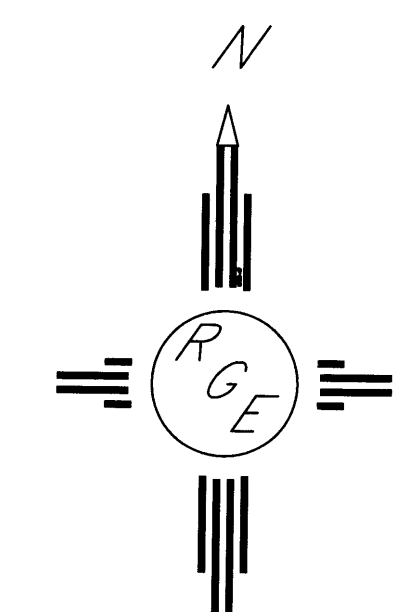
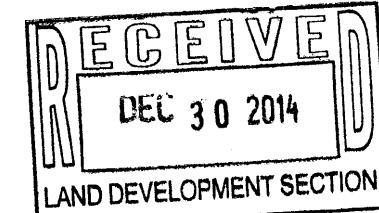
Tract B-1-A-5, Clifford Industrial Park

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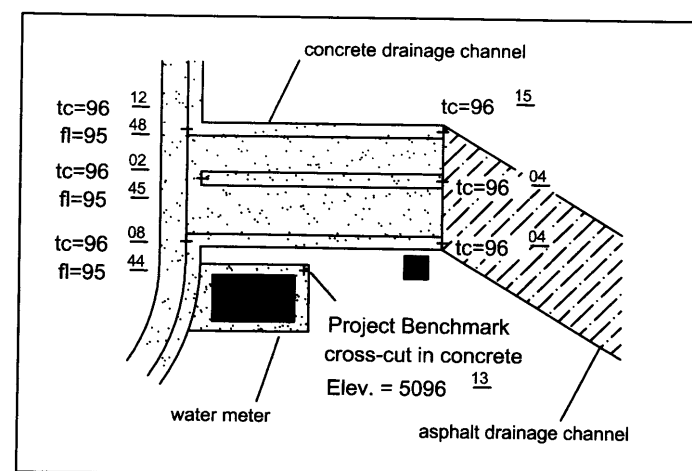
LEGEND

- 5411--- EXISTING CONTOUR
- 5410--- EXISTING INDEX CONTOUR
- 5411--- PROPOSED CONTOUR
- 5410--- PROPOSED INDEX CONTOUR
- DESIGN ELEVATION



GRAPHIC SCALE

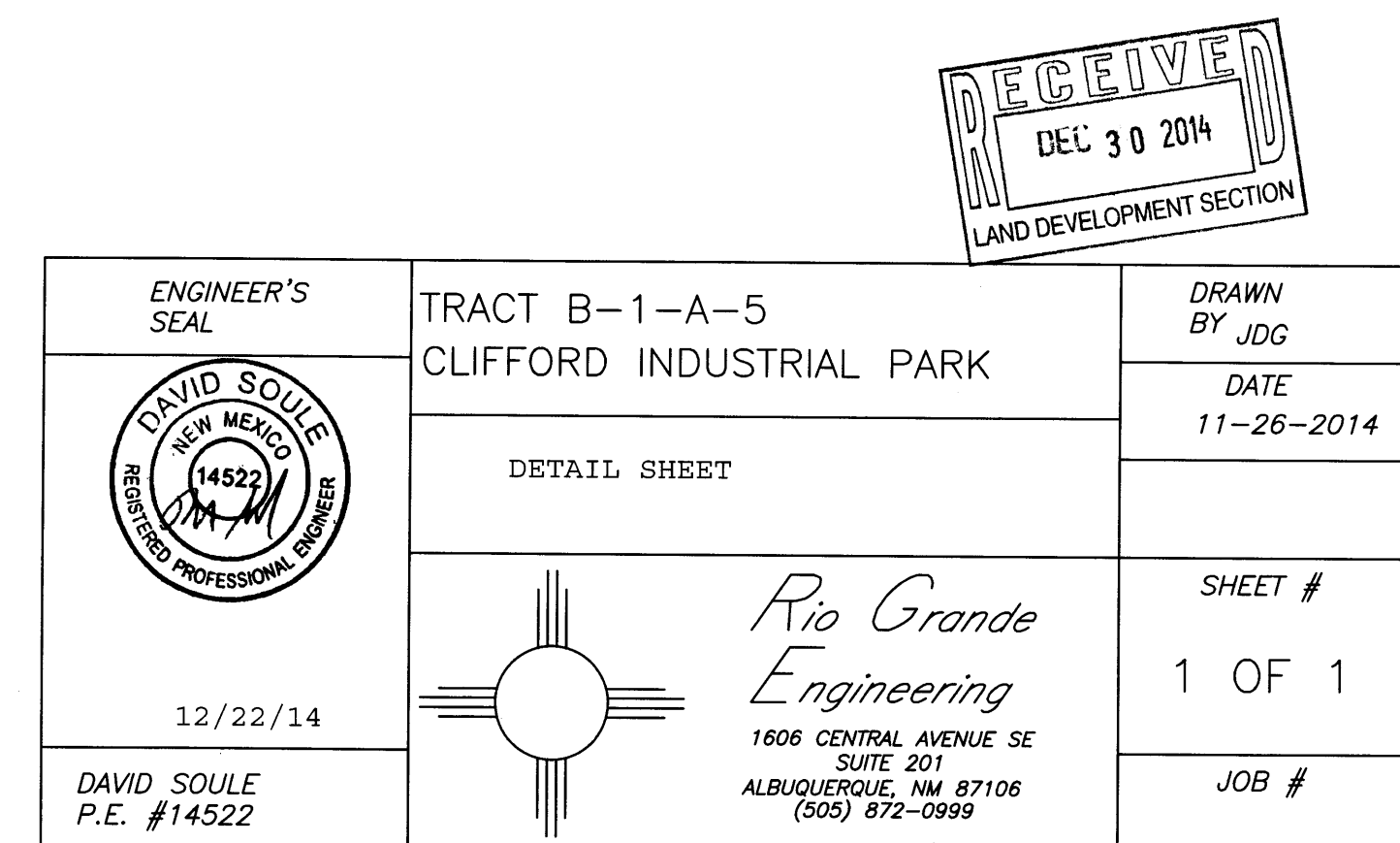
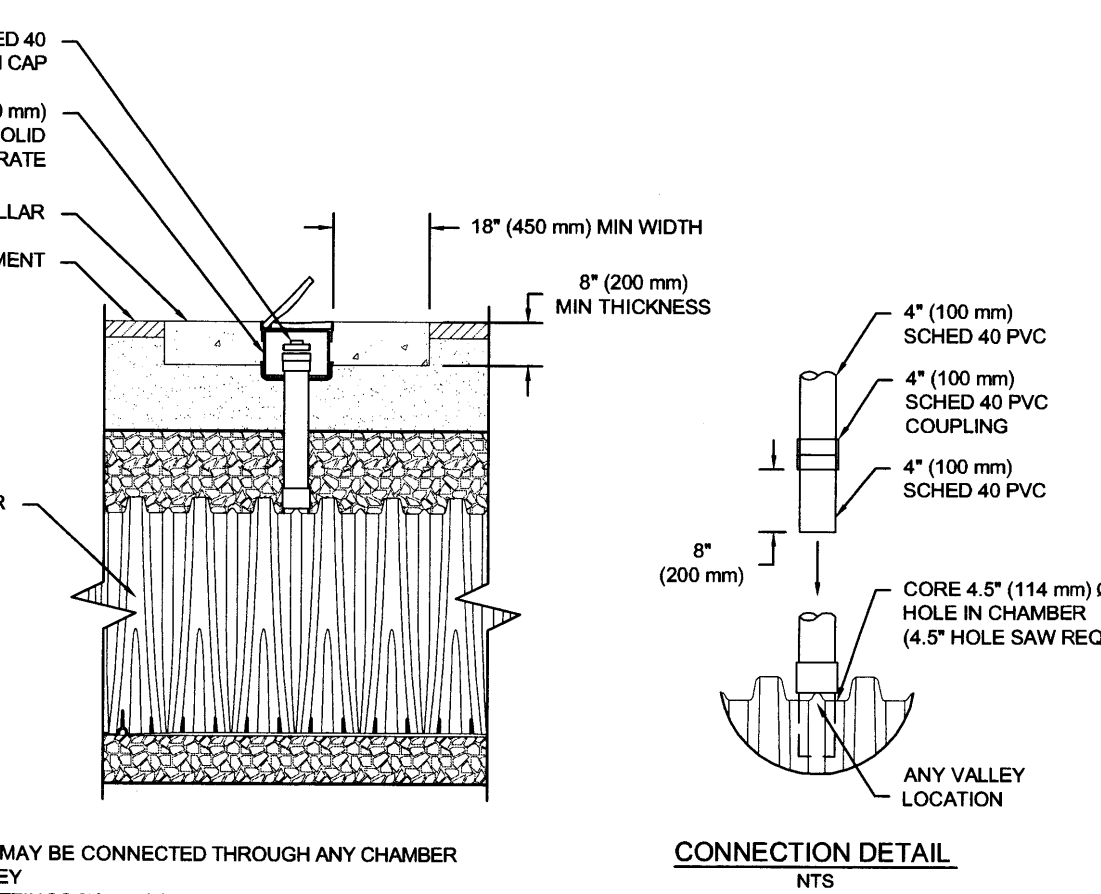
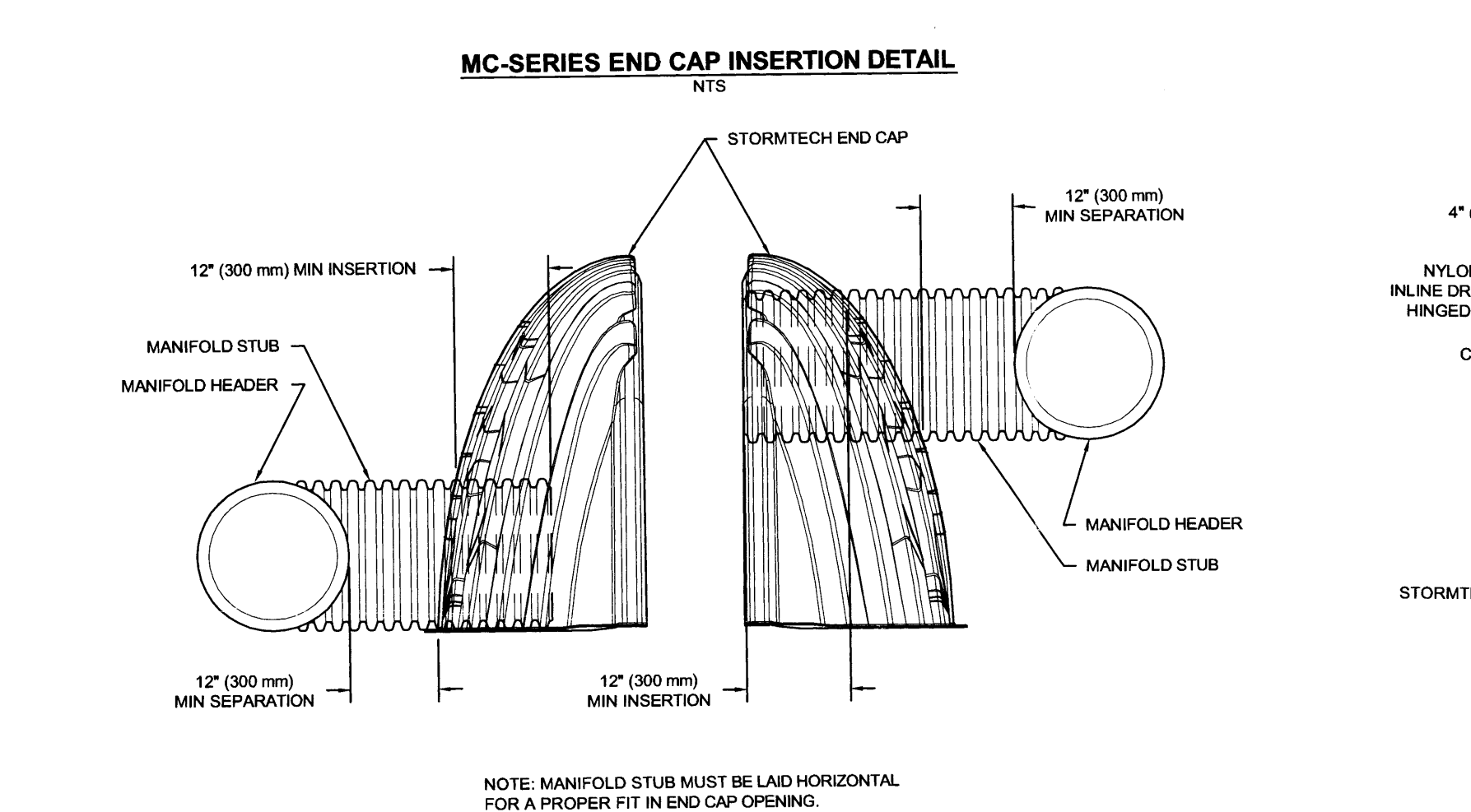
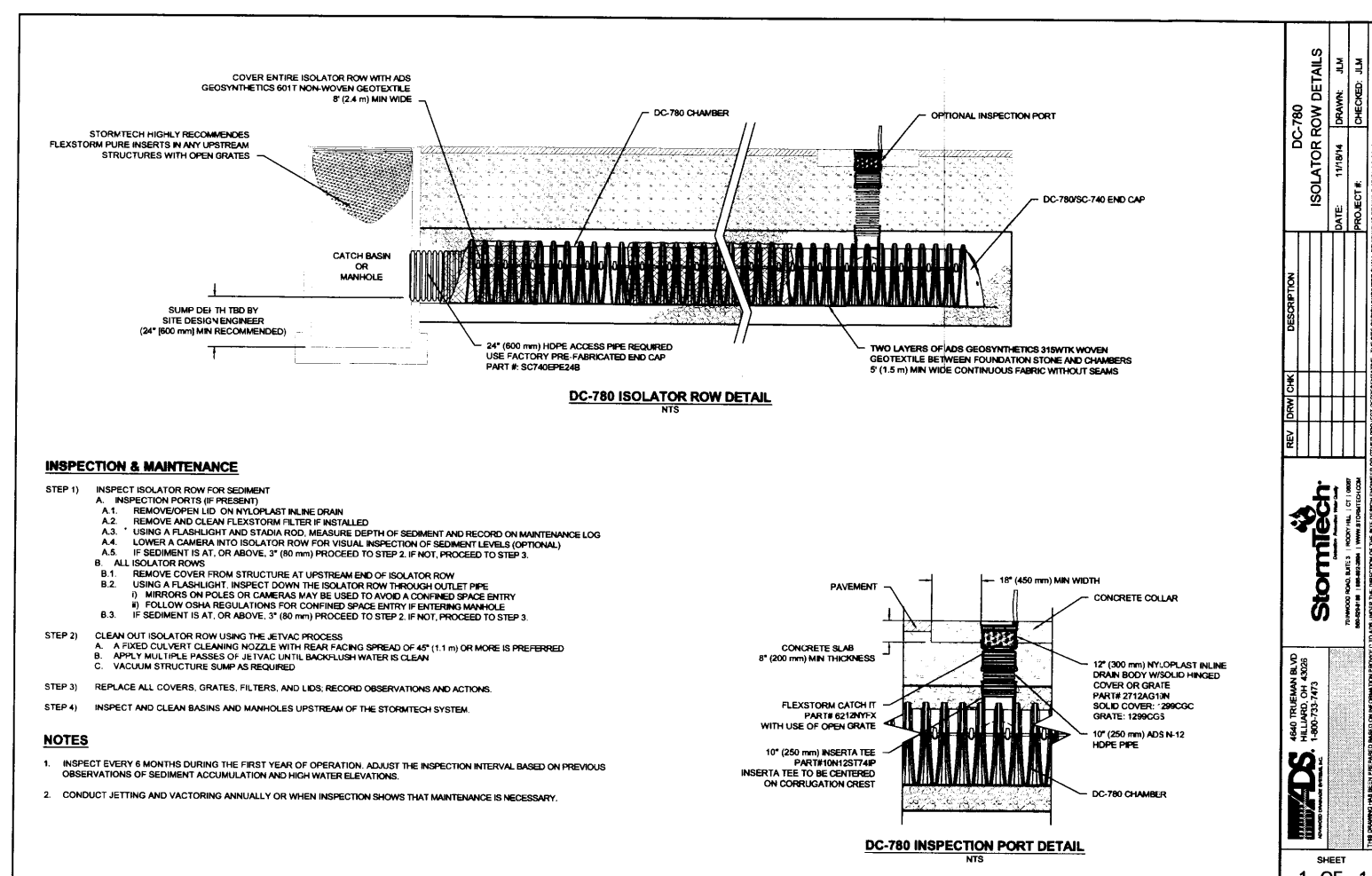
SCALE: 1"=20'



Tract B-1-A-6
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 331

Elevations shown hereon are NAVD88 values. Project Benchmark is a cross-cut in concrete at the southwest corner of Tract B-1-A-5, elevation = 5096.13 feet. Provided by Christopher J. Dehler, NMLS 7923

ENGINEER'S SEAL 	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK	DRAWN BY JDG
	GRADING AND DRAINAGE PLAN	DATE 11-26-2014
		SHEET # 1 OF 1
12/22/14 DAVID SOULE P.E. #14522	1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	JOB #



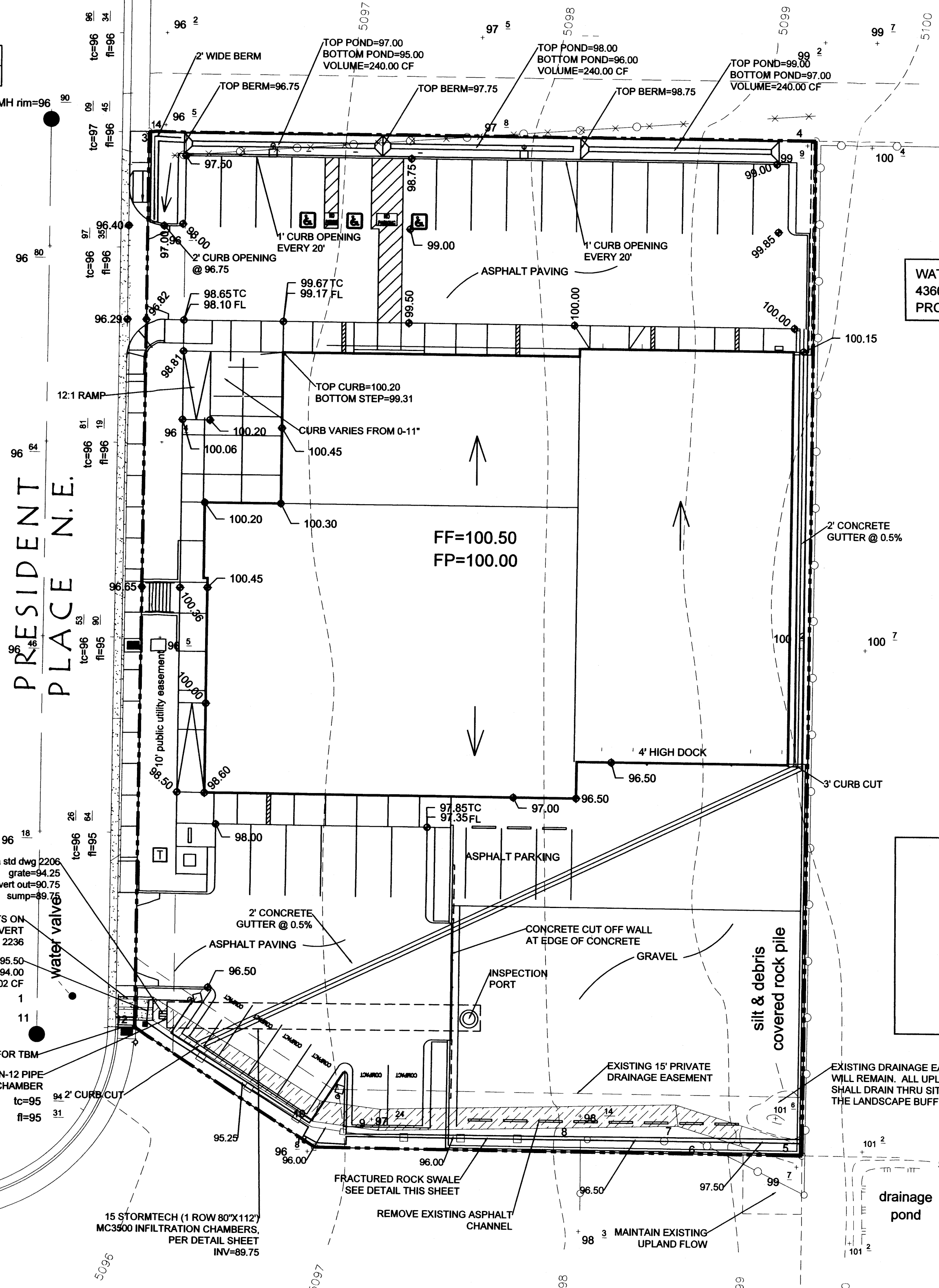
PRIVATE DRAINAGE IMPROVEMENT IN PUBLIC ROW
NOTICE TO CONTRACTORS

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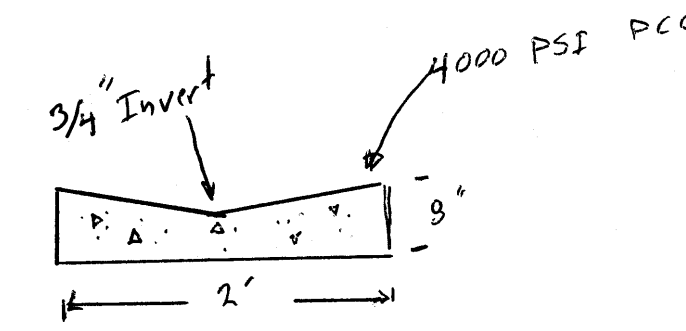
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APPROVAL	NAME	DATE
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Tract B-1-A-3
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 331

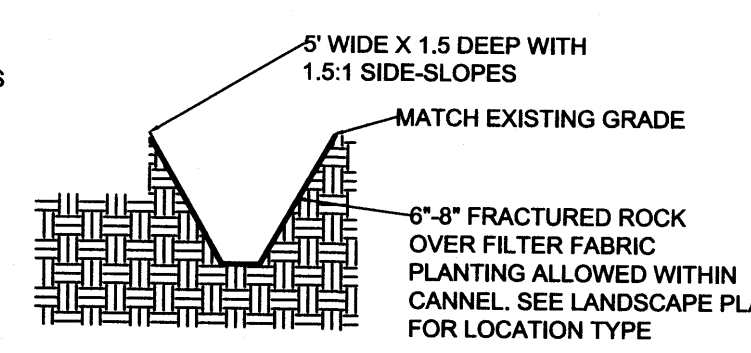
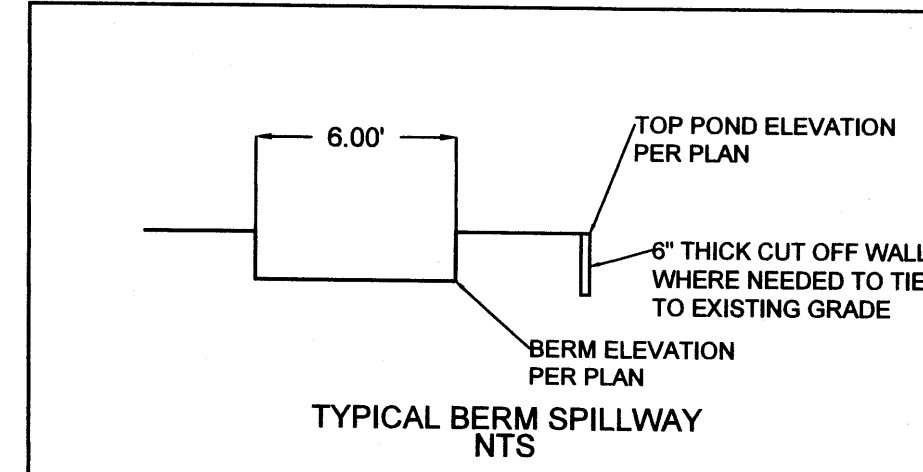


WATER QUALITY REQUIREMENT
43600 S.F. X .34/12=1237 CF
PROVIDED=2678.00 CF



VALLEY GUTTER DETAIL

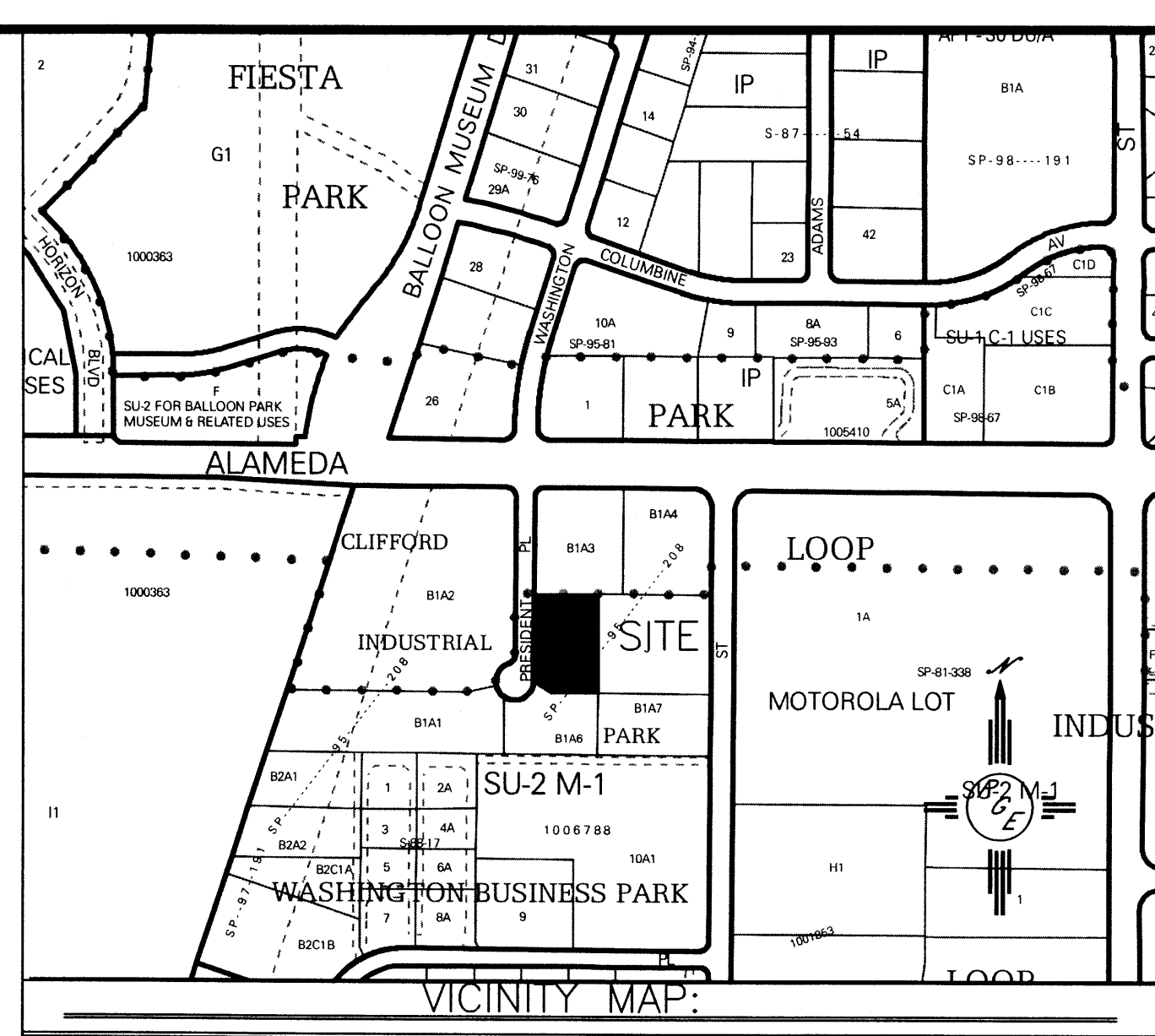
Tract "J"
CLIFFORD INDUSTRIAL PARK
Filed 6/28/1988, Vol. C36, Folio 181



Tract B-1-A-7
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Filed 8/31/1995, Volume 95C, Folio 331

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Tract B-1-A-5, Clifford Industrial Park

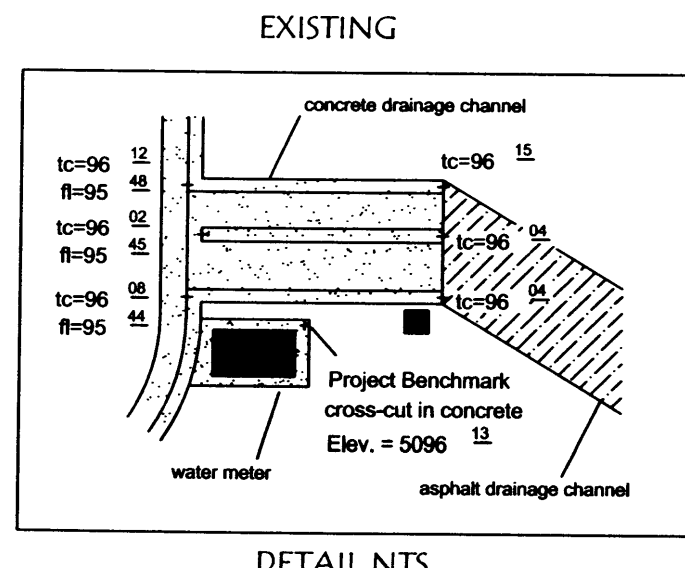
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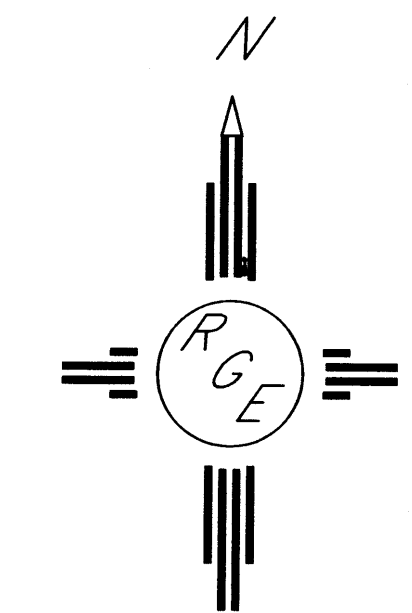
LEGEND

- - - -5411- - - - EXISTING CONTOUR
- - - -5410- - - - EXISTING INDEX CONTOUR
- - - -5411- - - - PROPOSED CONTOUR
- - - -5410- - - - PROPOSED INDEX CONTOUR
- • • • • DESIGN ELEVATION

Tract B-1-A-6
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 331



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GRAPHIC SCALE
20 10 0 10 20
SCALE: 1"=20'

ENGINEER'S SEAL DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 1/7/15 DAVID SOULE P.E. #14522	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK GRADING AND DRAINAGE PLAN Rio Grande Engineering 1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	DRAWN BY JDG DATE 01-07-2015 SHEET # 1 OF 1 JOB #
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StormTech MC-3500 Chamber

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots thus maximizing land usage for commercial and municipal applications.

StormTech MC-3500 Chamber (not to scale)

Nominal Chamber Specifications

Size (L x W x H)	9' (2286 mm) x 7' (1956 mm) x 45" (1143 mm)
Chamber Storage	109.9 ft ³ (3.11 m ³)
Min. Installed Storage*	178.9 ft ³ (5.06 m ³)
Weight	134 lbs (60.8 kg)

*This assumes a minimum of 12" (305 mm) of stone above, 9" (229 mm) of stone below chambers, 9" (229 mm) row spacing, and 40% stone porosity.

StormTech MC-3500 End Cap (not to scale)

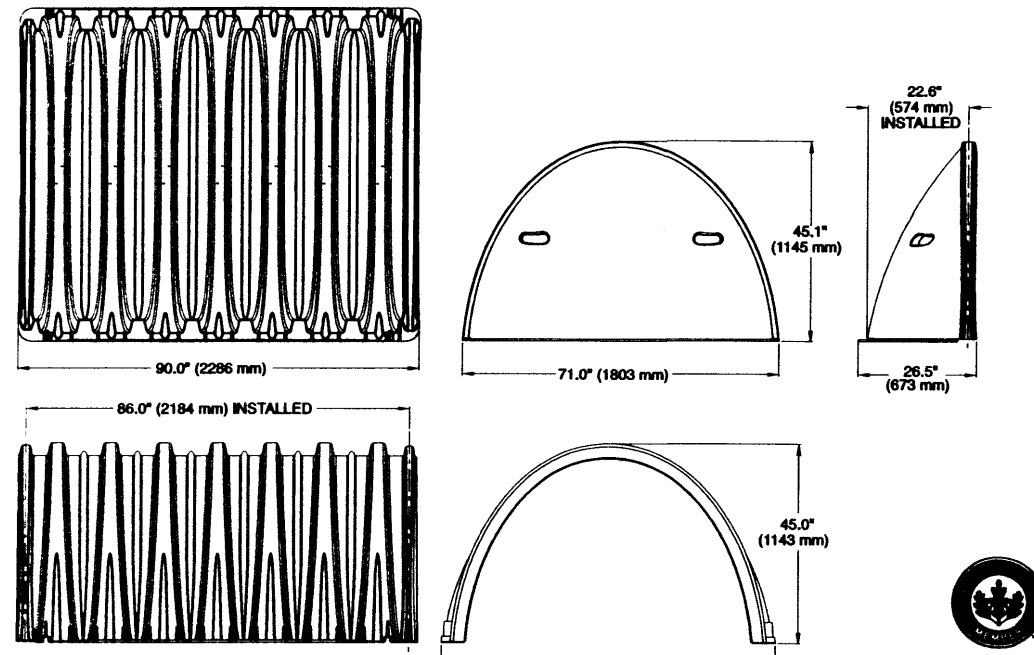
Nominal End Cap Specifications

Size (L x W x H)	26.5" (673 mm) x 7' (1956 mm) x 45" (1143 mm)
End Cap Storage	15.6 ft ³ (0.44 m ³)
Min. Installed Storage*	46.9 ft ³ (1.33 m ³)
Weight	43 lbs (19.5 kg)

*This assumes a minimum of 12" (305 mm) of stone above, 9" (229 mm) of stone below, 9" (229 mm) row spacing, 4" (102 mm) of stone perimeter, and 40% stone porosity.

Shipping

- 15 chambers/pallet
- 16 end caps/pallet
- 7 pallets/truck



Storage Volume Per Chamber/End Cap ft³ (m³)

Base Unit	Chamber/End Cap and Stone Storage	Depth in. (mm)	12 in. (305 mm)	15 in. (381 mm)	18 in. (457 mm)
MC-3500 Chamber	109.9 (3.11)	178.9 (5.06)	194.0 (5.51)	198.2 (5.64)	194.3 (5.5)
MC-3500 End Cap	15.6 (0.44)	46.9 (1.33)	46.6 (1.38)	50.3 (1.43)	52.0 (1.47)

NOTE: Assumes 9" (229 mm) row spacing, 40% stone porosity, 12" (305 mm) stone above and includes the base chamber/end cap volume. End cap volume assumes 9" (152 mm) stone perimeter.

Volume of Excavation Per Chamber/End Cap in ft³ (m³)

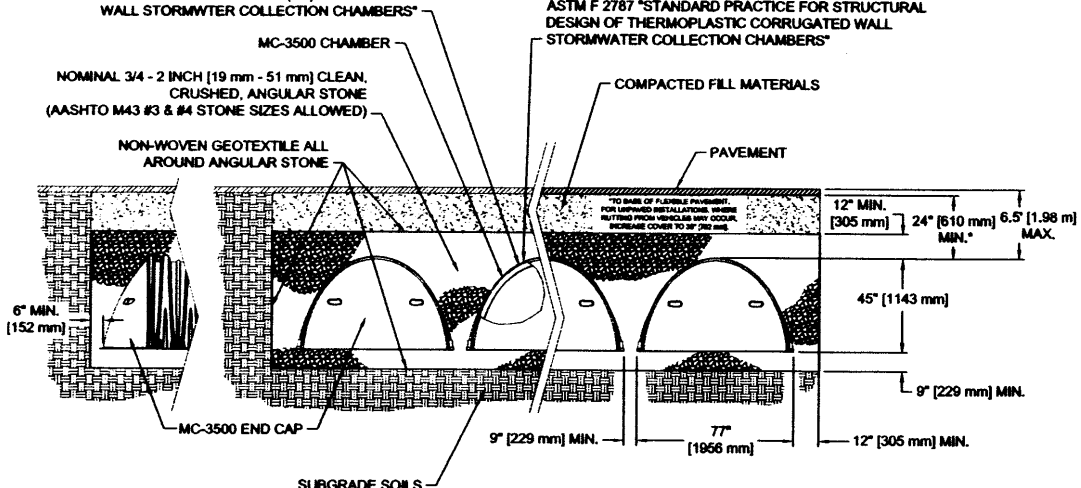
Base Unit	Excavation Volume	Depth in. (mm)	12 in. (305 mm)	15 in. (381 mm)	18 in. (457 mm)
MC-3500 Chamber	12.4 (0.35)	12.8 (0.38)	13.3 (0.42)	13.8 (0.45)	13.8 (0.45)
End Cap	4.1 (0.11)	4.3 (0.13)	4.4 (0.14)	4.6 (0.13)	4.6 (0.13)

NOTE: Assumes 9" (229 mm) of separation between chamber rows and 24" (610 mm) of cover. The volume of excavation will vary as the depth of cover increases.

General Cross Section

CHAMBERS SHALL MEET ASTM F 2419 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F 2419 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".



- THIS CROSS SECTION PROVIDES GENERAL INFORMATION FOR THE MC-3500 CHAMBER. STORMTECH MC-3500 CHAMBERS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE MC-3500 DESIGN MANUAL AND MC-3500 CONSTRUCTION GUIDE.
- PROPERLY INSTALLED MC-3500 CHAMBERS PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR EARTH AND LIVE LOADS WITH CONSIDERATION FOR IMPACT AND MULTIPLE PRESENCES.
- PERIMETER STONE MUST ALWAYS BE BROUGHT UP EVENLY WITH BACKFILL OF BED. PERIMETER STONE MUST EXTEND HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH STRAIGHT OR SLOPED SIDEWALLS.



A division of
ADS

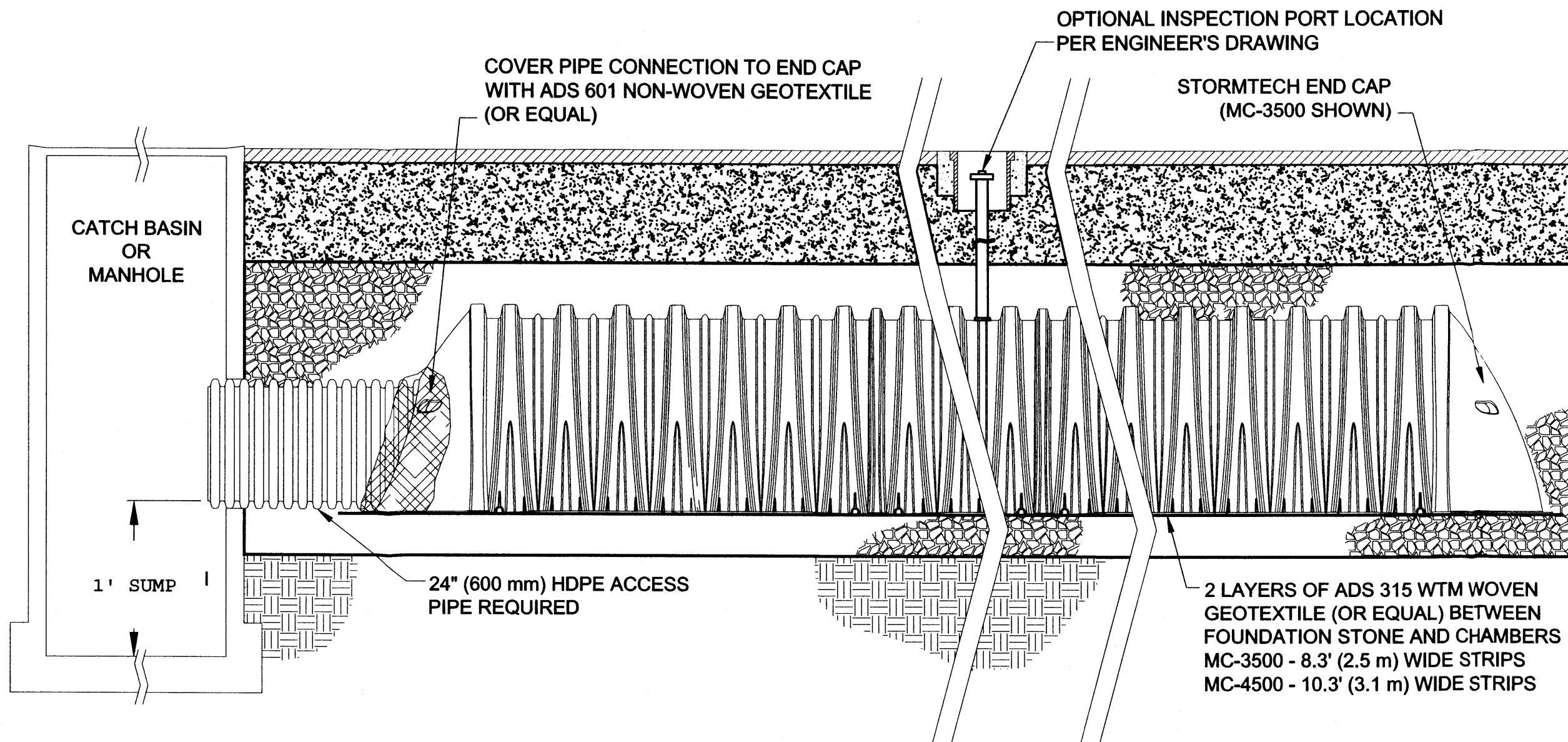
70 Inwood Road, Suite 3 | Rocky Hill | Connecticut | 06067
860.529.8188 | 888.882.2694 | fax 860.328.8401 | fax 860.529.8040 | www.stormtech.com

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StormTech® is a registered trademark of StormTech, Inc.
The Green Building Council Member logo is a registered trademark of the U.S. Green Building Council.
5150909 06/12

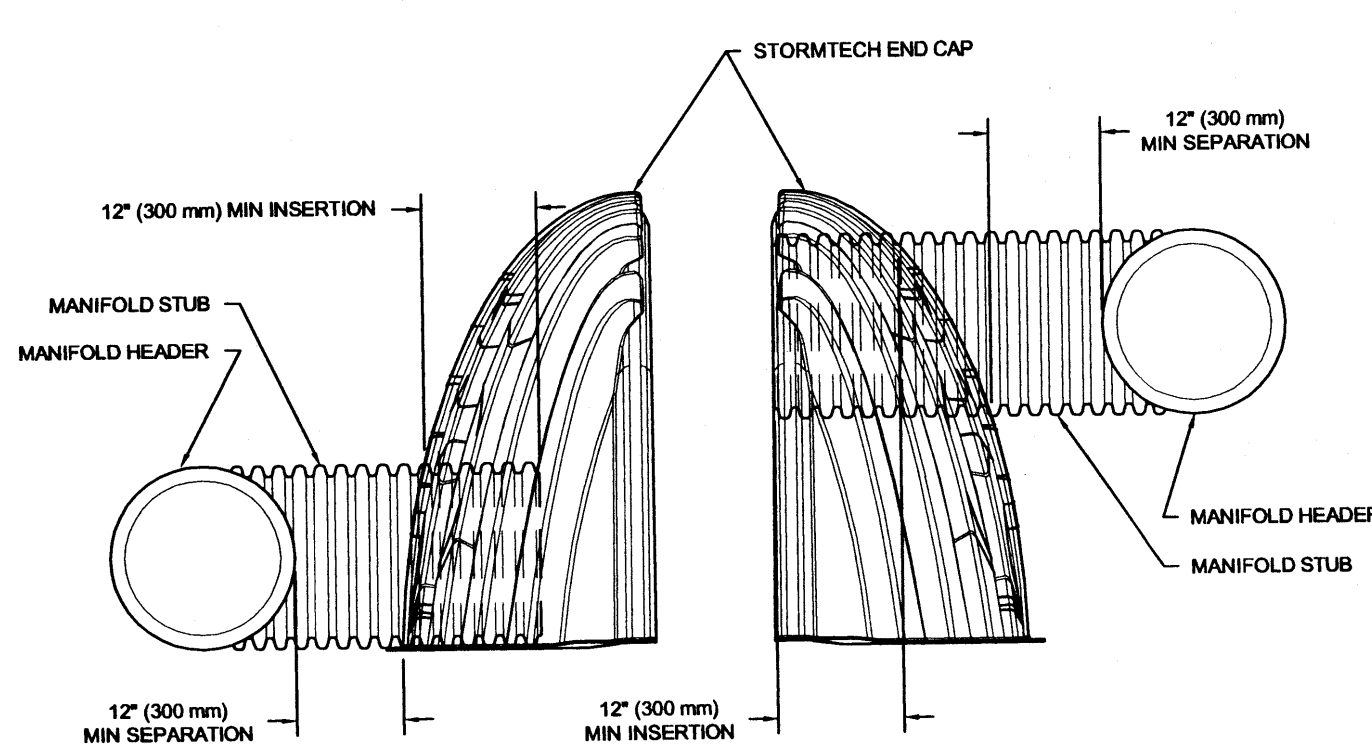
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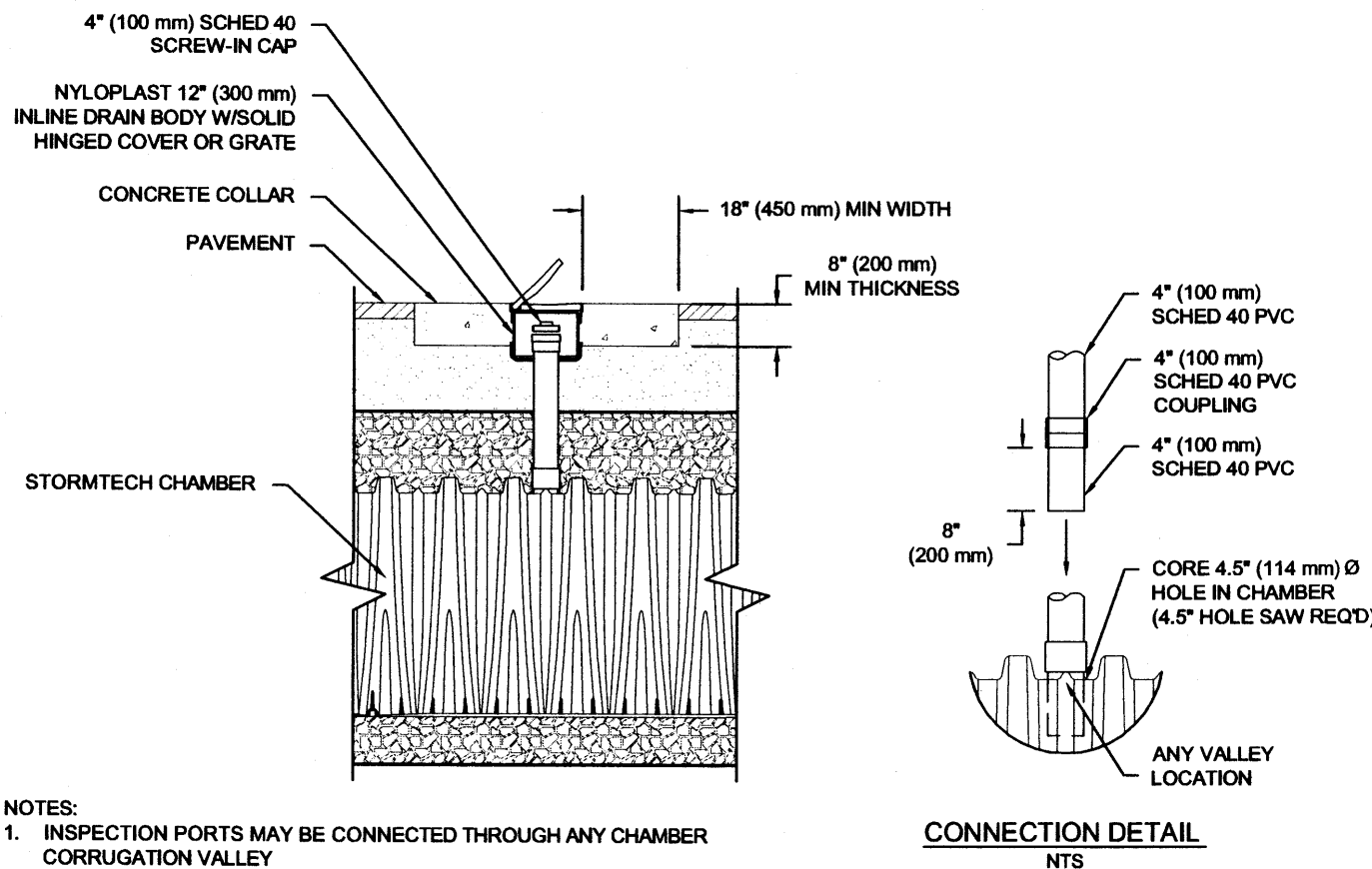
FIGURE 12 – StormTech Isolator Row Detail



MC-SERIES END CAP INSERTION DETAIL NTS



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.



- NOTES:
- INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.
 - ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED.

CONNECTION DETAIL NTS

ENGINEER'S SEAL 1/7/15	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK	DRAWN BY JDG
	DETAIL SHEET	DATE 11-26-2014
	Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # 1 OF 1
	DAVID SOULE P.E. #14522	JOB #

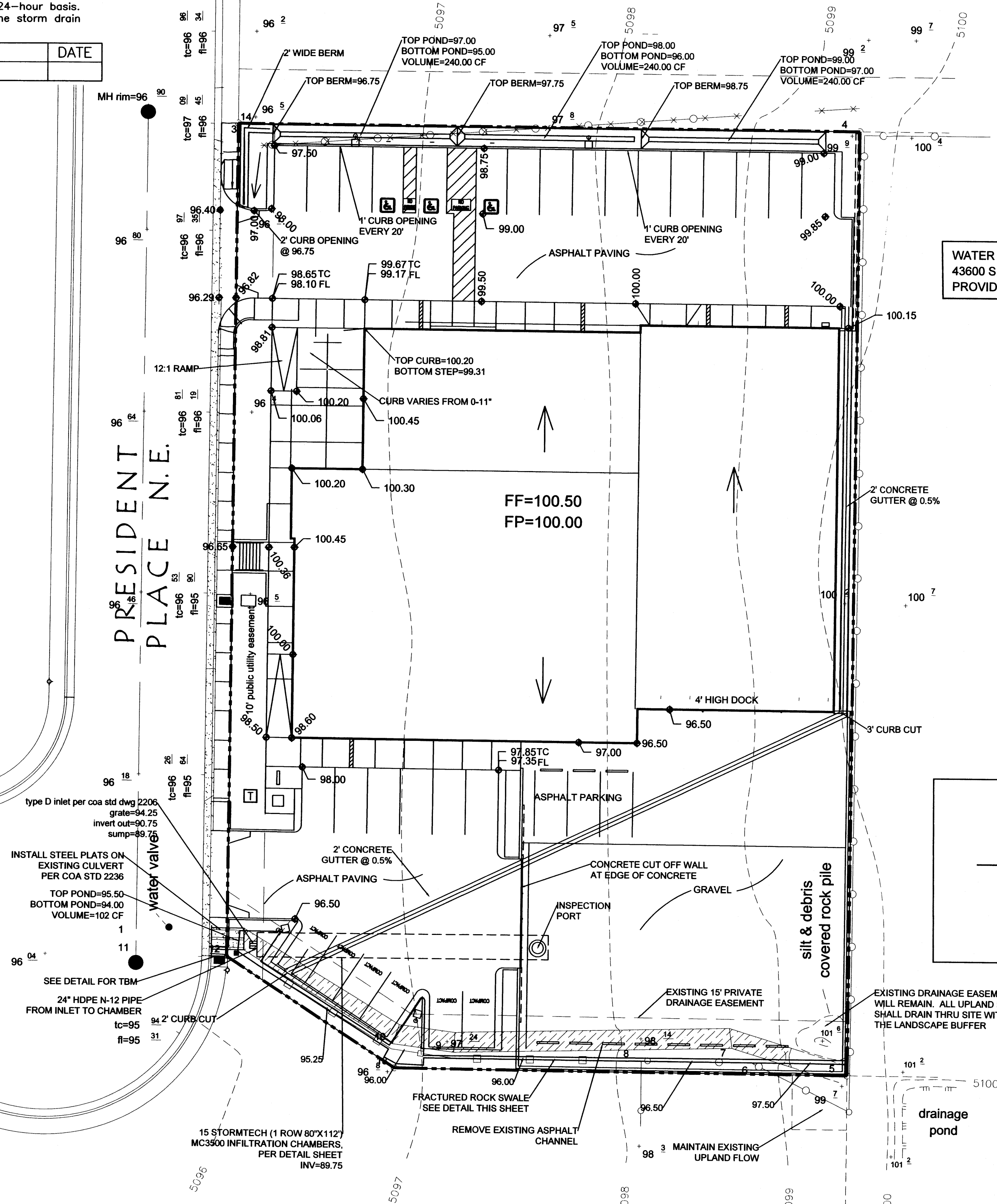
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3. Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to traffic/street use.
6. Maintenance of the facility 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.
8. Prior to pouring concrete, contractor shall notify the storm drain inspector, 857-8074, to inspect reinforcement.

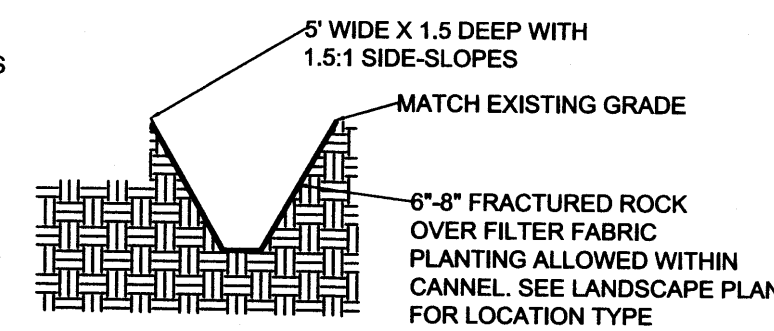
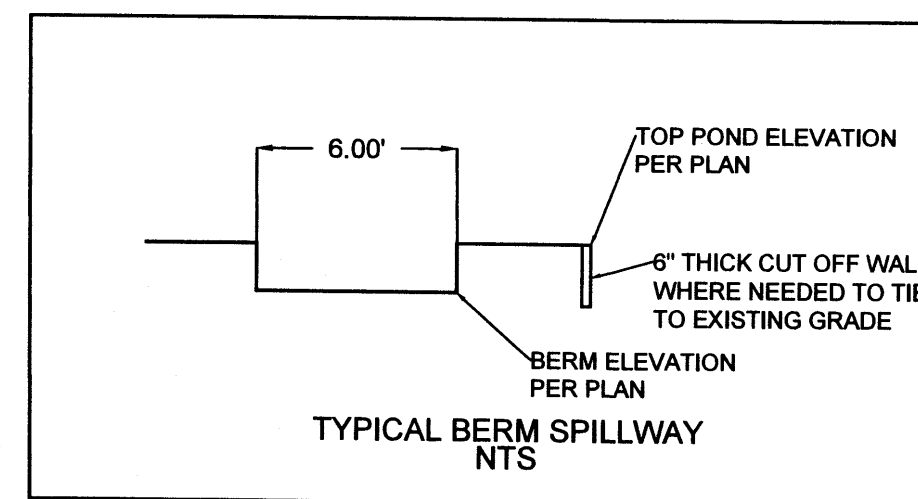
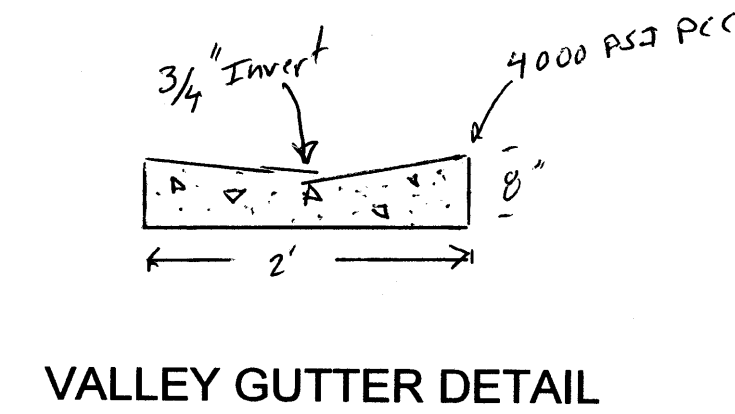
APPROVAL	NAME	DATE
INSPECTOR		

Tract B-1-A-3
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 331



WATER QUALITY REQUIREMENT
43600 S.F. X .34/12=1237 CF
PROVIDED=2678.00 CF

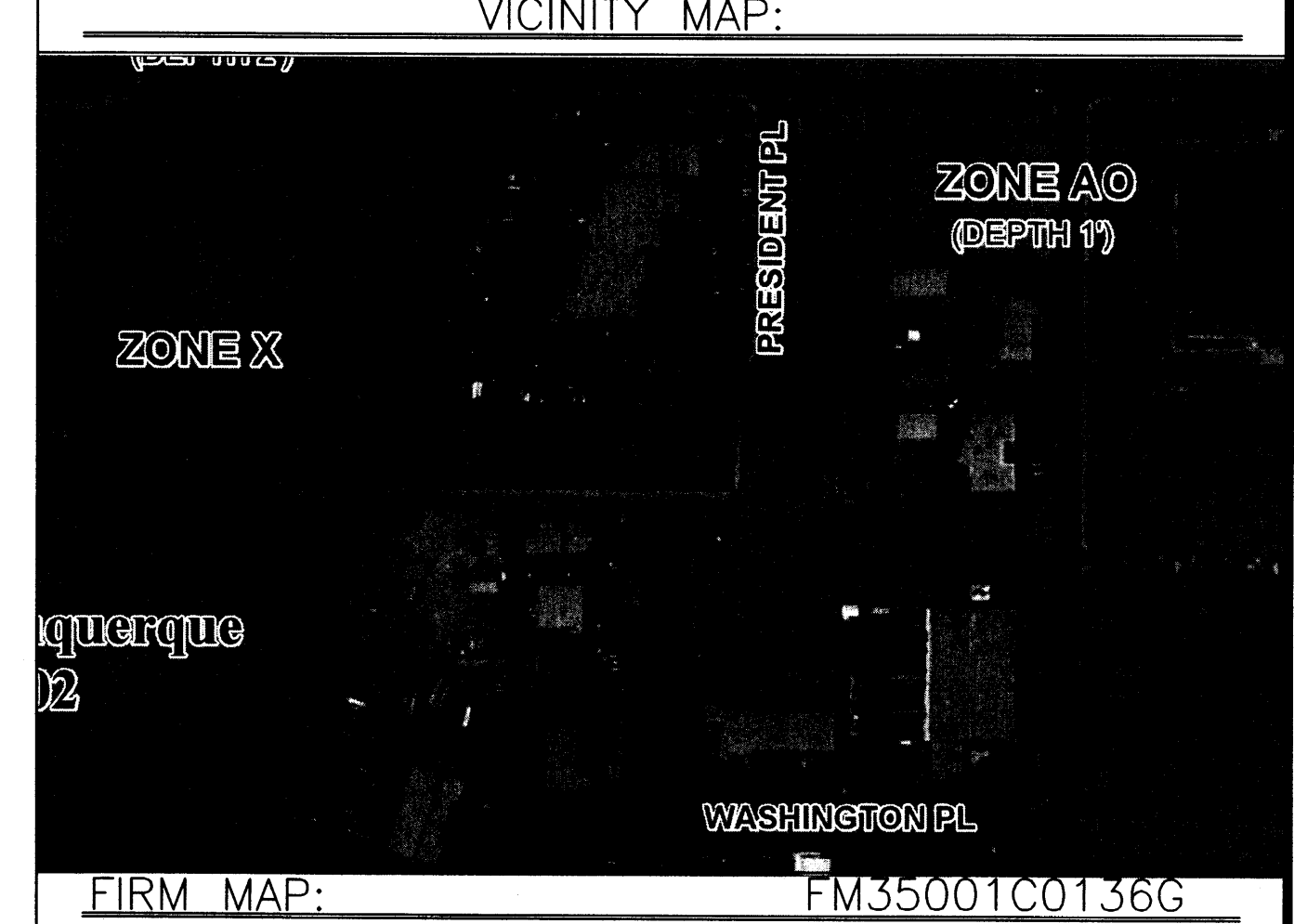
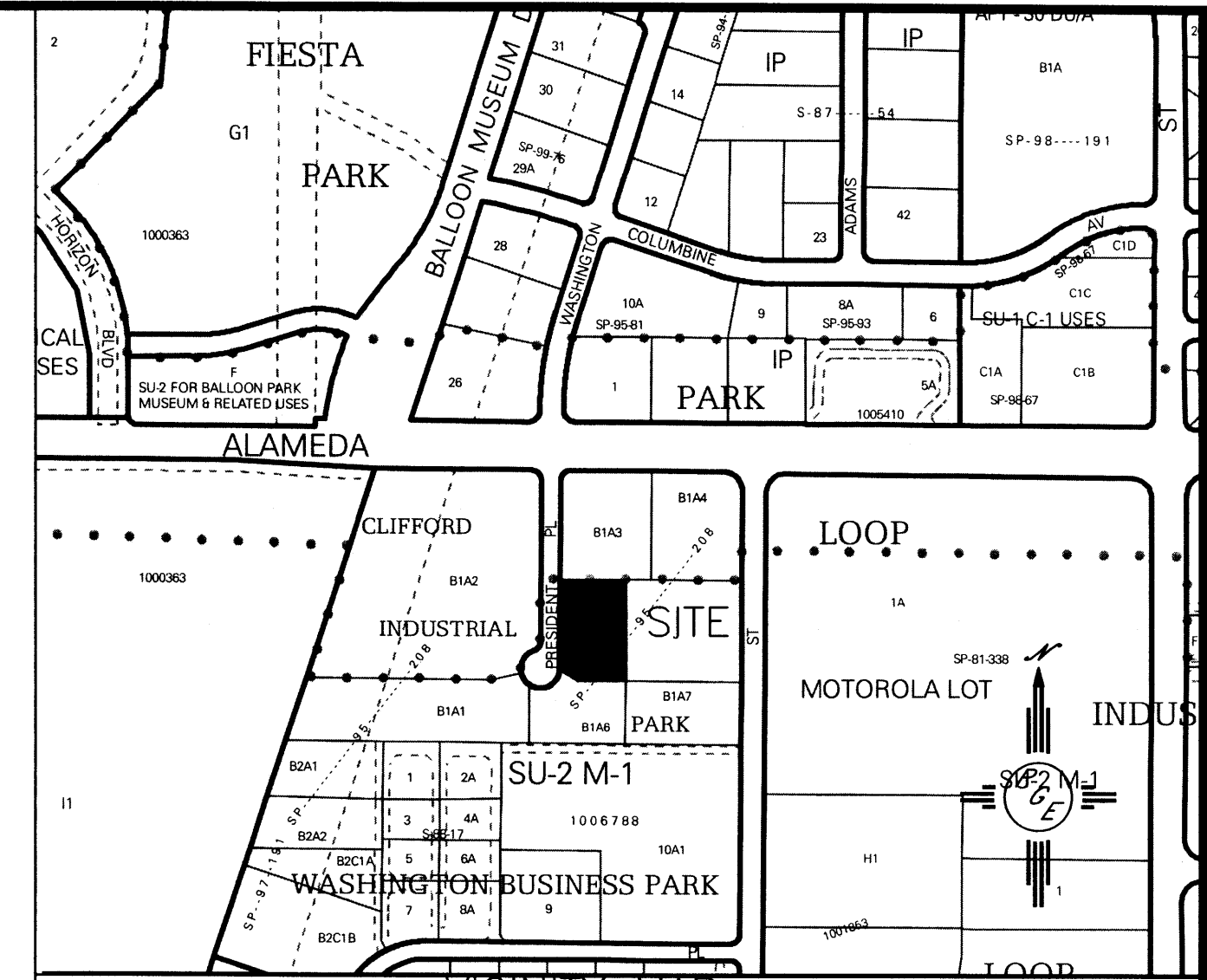
Tract "J"
CLIFFORD INDUSTRIAL PARK
Filed 6/28/1988, Vol. C36, Folio 181



Tract B-1-A-7
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 331

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.



LEGAL DESCRIPTION:

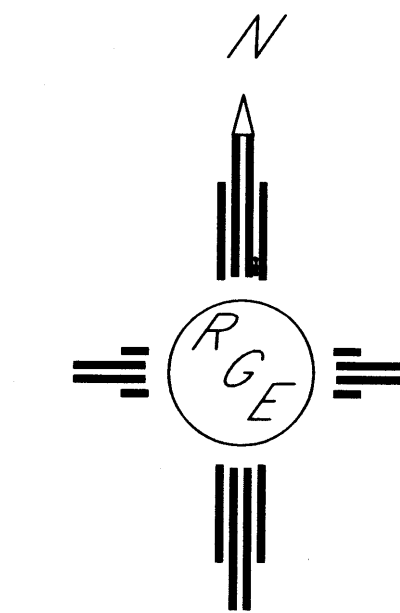
Tract B-1-A-5, Clifford Industrial Park

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY Christopher J. Dehler, NMLS 7923
3. ONSITE CURB SHALL BE 6" UNLESS OTHERWISE NOTED
4. ALL POND SHALL BE LINED WITH 6-8" FRACTURED ROCK. LANDSCAPING SHALL BE INSTALLED WITHIN ROCK.

LEGEND

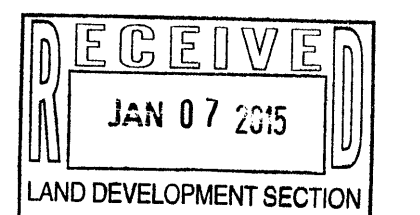
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- - - - -5410- - - - - EXISTING INDEX CONTOUR
- - - - -5411- - - - - PROPOSED CONTOUR
- - - - -5410- - - - - PROPOSED INDEX CONTOUR
- DESIGN ELEVATION



GRAPHIC SCALE

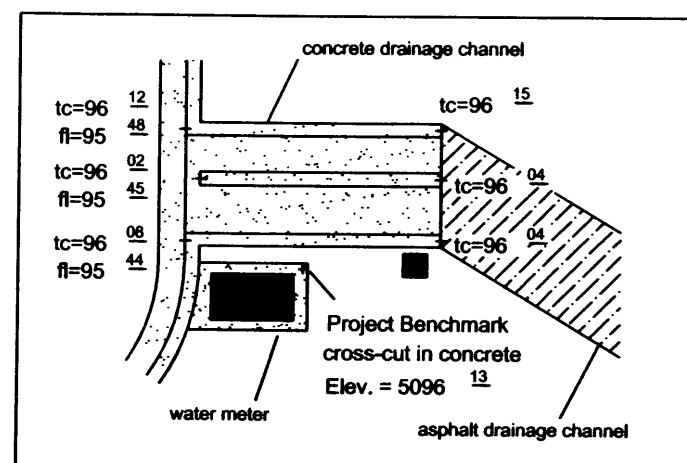
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SCALE: 1"=20'



ENGINEER'S SEAL DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK GRADING AND DRAINAGE PLAN	DRAWN BY JDG DATE 01-07-2015
1/7/15	Rio Grande Engineering 1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # 1 OF 1 JOB #

EXISTING



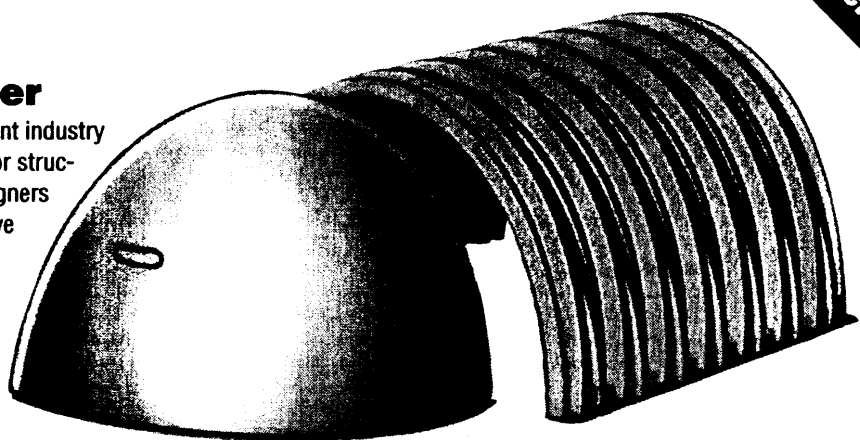
DETAIL NTS

Elevations shown hereon are NAVD88 values. Project Benchmark is a cross-cut in concrete at the southwest corner of Tract B-1-A-5, elevation = 5096.13 feet. Provided by Christopher J. Dehler, NMLS 7923



StormTech MC-3500 Chamber

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots thus maximizing land usage for commercial and municipal applications.



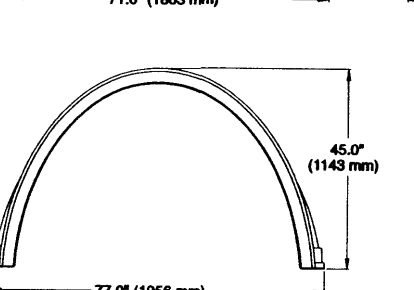
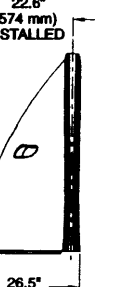
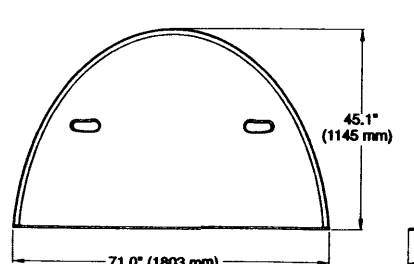
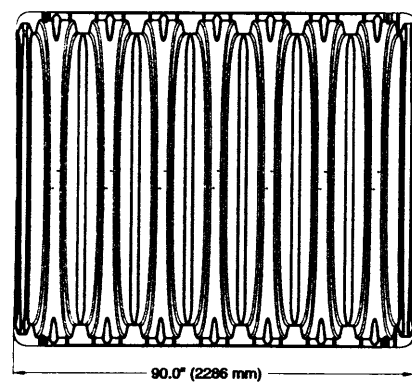
StormTech MC-3500 Chamber (not to scale)

Nominal Chamber Specifications	
Size (L x W x H)	90" (2286 mm) x 77" (1956 mm) x 45" (1143 mm)
Chamber Storage	109.9 ft ³ (3.11 m ³)
Min. Installed Storage*	178.9 ft ³ (5.06 m ³)
Weight	134 lbs. (60.8 kg)

*This assumes a minimum of 12" (305 mm) of stone above, 9" (229 mm) of stone below chambers, 9" (229 mm) row spacing, and 40% stone porosity.

Shipping

15 chambers/pallet
16 end caps/pallet
7 pallets/truck



Storage Volume Per Chamber/End Cap ft³ (m³)

	Bare Unit Storage ft ³ (m ³)	Chamber/End Cap and Stone Volume — Stone Foundation Depth in. (mm)			
		9 (229)	12 (305)	15 (381)	18 (457)
MC-3500 Chamber	109.9 (3.11)	178.9 (5.06)	184.0 (5.21)	182.2 (5.16)	194.3 (5.5)
MC-3500 End Cap	15.64 (0.44)	46.9 (1.33)	48.6 (1.38)	50.3 (1.43)	52.0 (1.47)

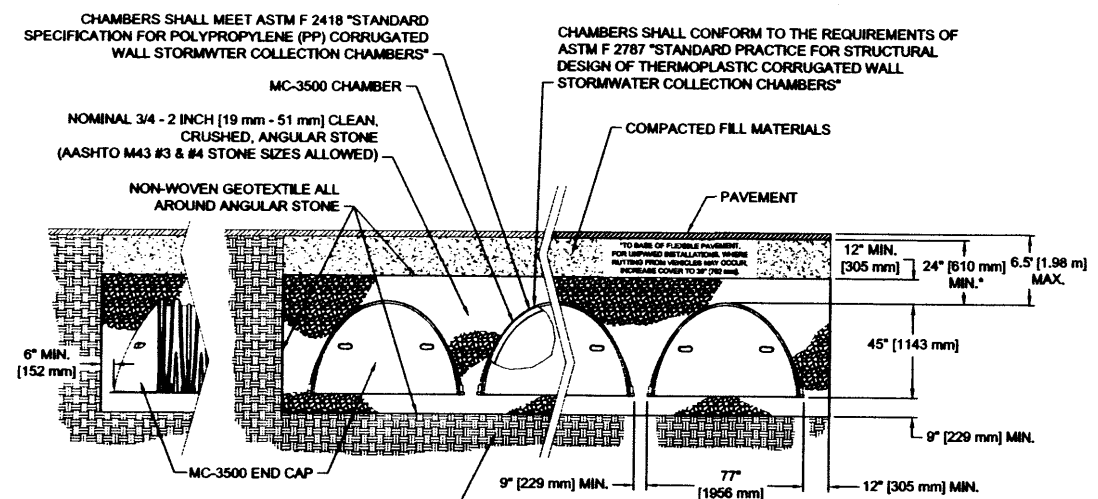
NOTE: Assumes 9" (229 mm) row spacing, 40% stone porosity 12" (305 mm) stone above and includes the bare chamber/end cap volume. End Cap volume assumes 6" (152 mm) stone perimeter.

Volume of Excavation Per Chamber/End Cap yd³ (m³)

	Stone Foundation Depth in. (mm)			
	9 (229)	12 (305)	15 (381)	18 (457)
MC-3500	12.4 (9.5)	12.8 (9.8)	13.3 (10.2)	13.8 (10.5)
End Cap	4.1 (3.1)	4.3 (3.3)	4.4 (3.4)	4.6 (3.5)

NOTE: Assumes 9" (229 mm) of separation between chamber rows and 24" (610 mm) of cover. The volume of excavation will vary as the depth of cover increases.

General Cross Section



- NOTES:
- THIS CROSS SECTION PROVIDES GENERAL INFORMATION FOR THE MC-3500 CHAMBER. STORMTECH MC-3500 CHAMBERS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE MC-3500 DESIGN MANUAL AND MC-3500 CONSTRUCTION GUIDE.
 - PROPERLY INSTALLED MC-3500 CHAMBERS PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR EARTH AND LIVE LOADS WITH CONSIDERATION FOR IMPACT AND MULTIPLE PRESENCES.
 - PERIMETER STONE MUST ALWAYS BE BROUGHT UP EVENLY WITH BACKFILL OF BED. PERIMETER STONE MUST EXTEND HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH STRAIGHT OR SLOPED SIDEWALKS.



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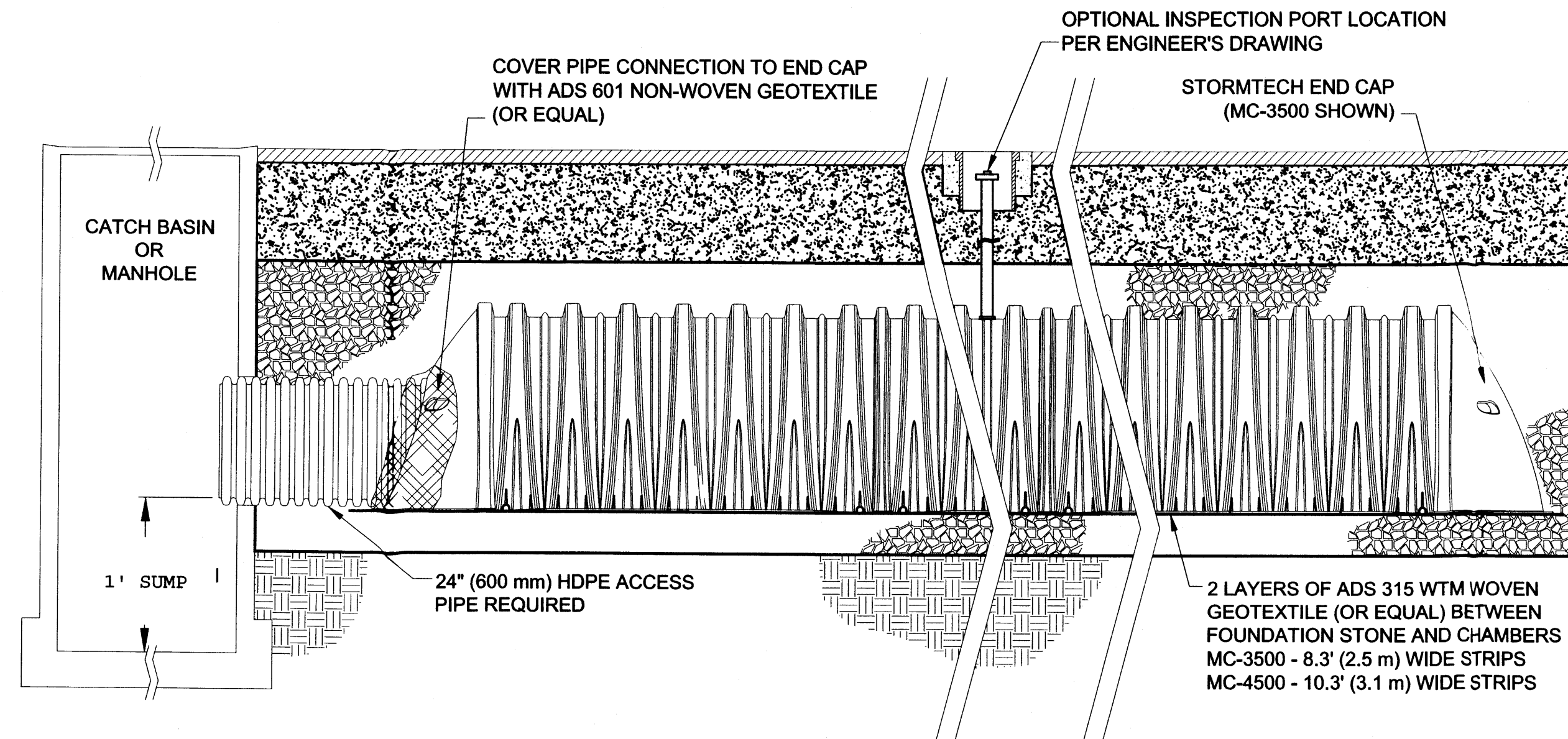
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S150009 06/12

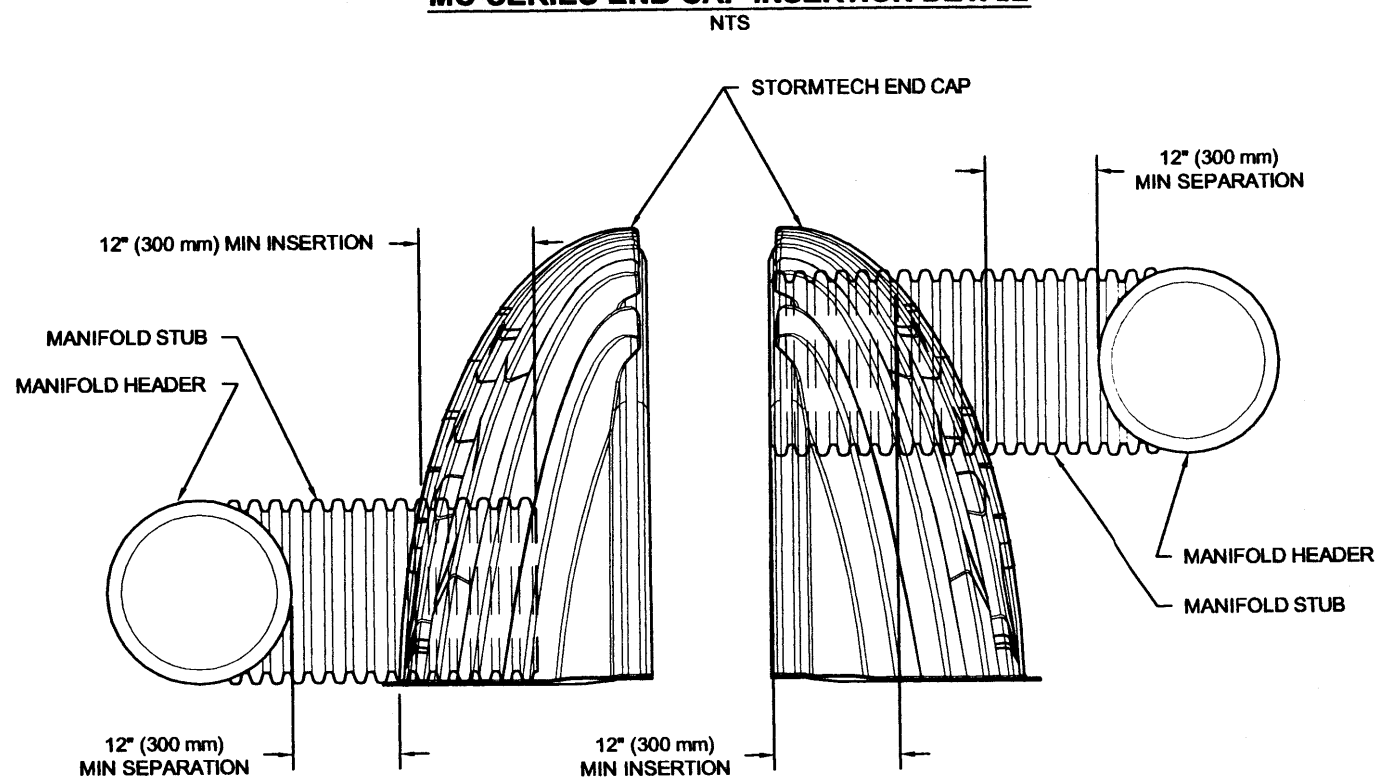
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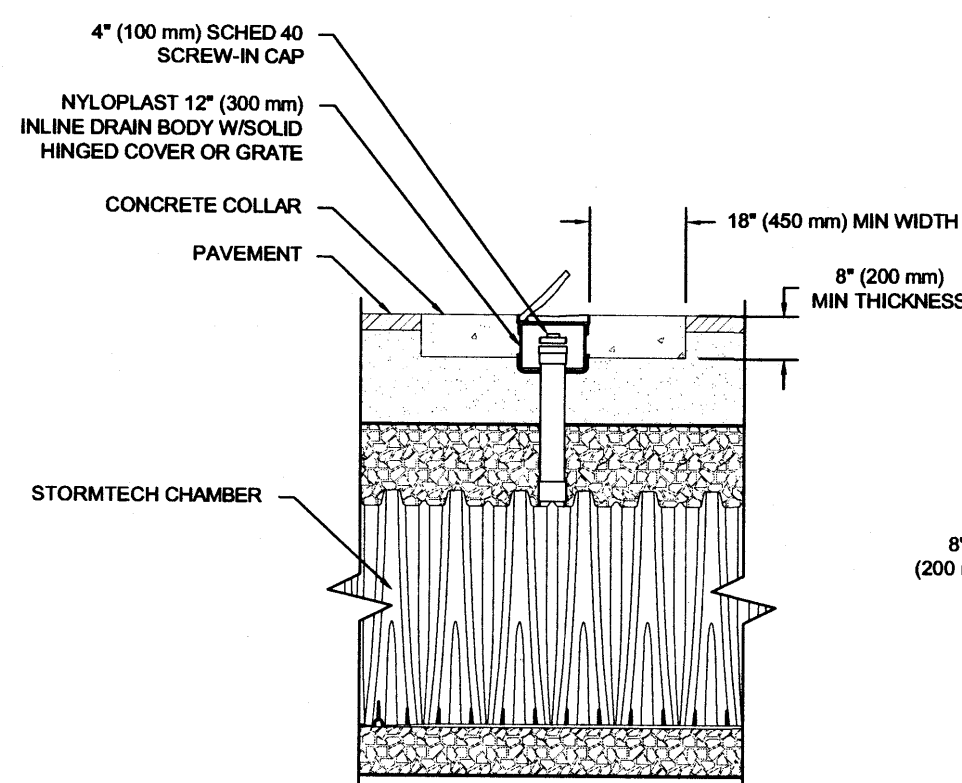
FIGURE 12 – StormTech Isolator Row Detail



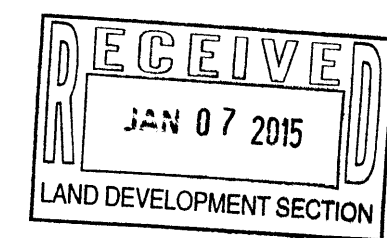
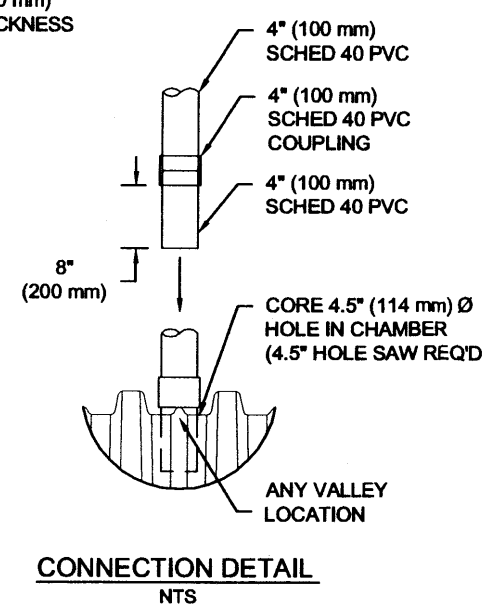
MC-SERIES END CAP INSERTION DETAIL

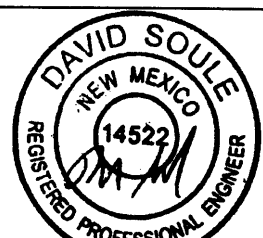
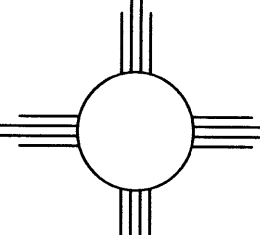


NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.



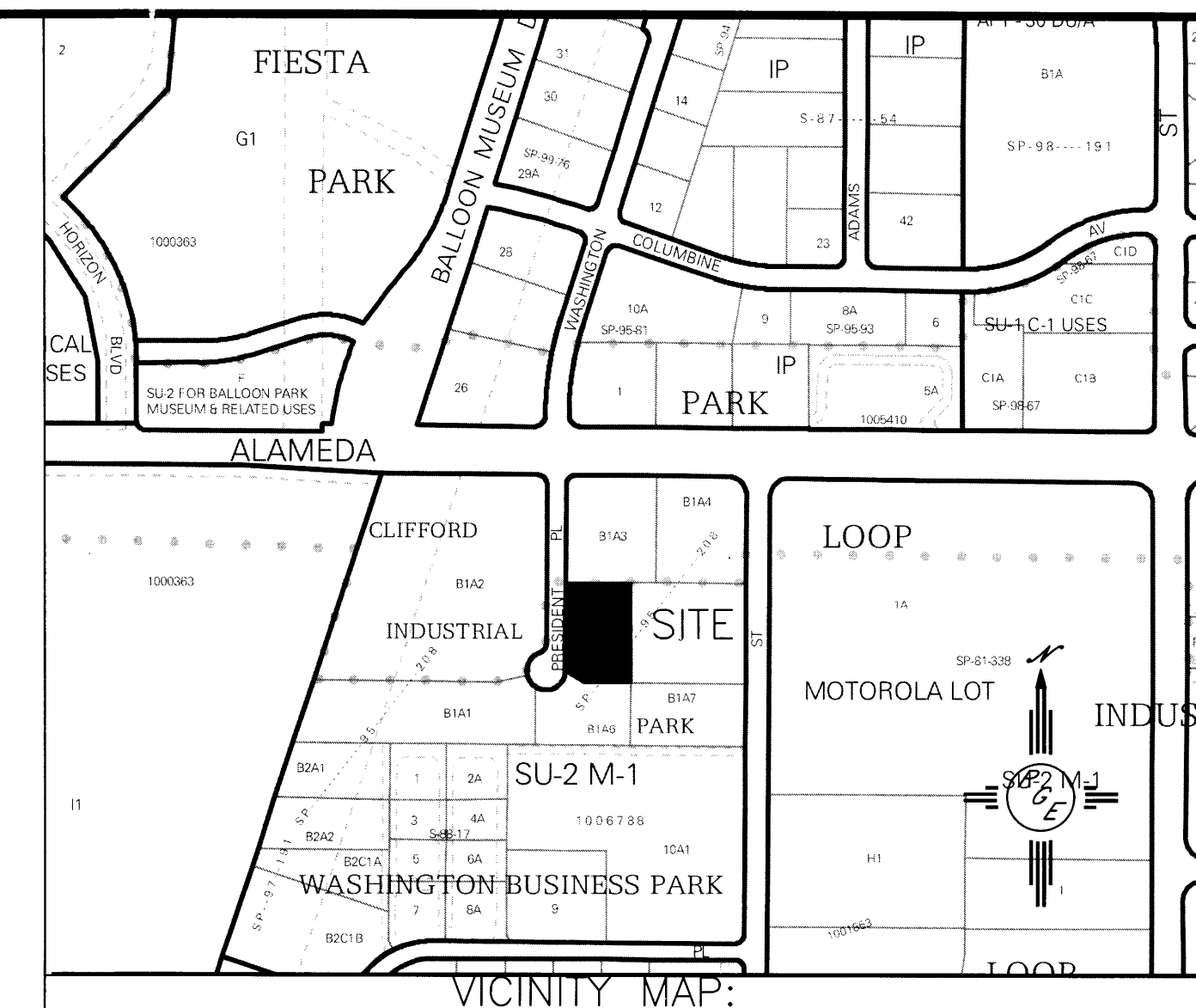
- NOTES:
- INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.
 - ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED.



ENGINEER'S SEAL	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK	DRAWN BY JDG
 1/7/15	DETAIL SHEET	DATE 11-26-2014
	 Rio Grande Engineering 1808 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # 1 OF 1 JOB #

EROSION CONTROL NOTES:

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LEGAL DESCRIPTION:

Tract B-1-A-5, Clifford Industrial Park

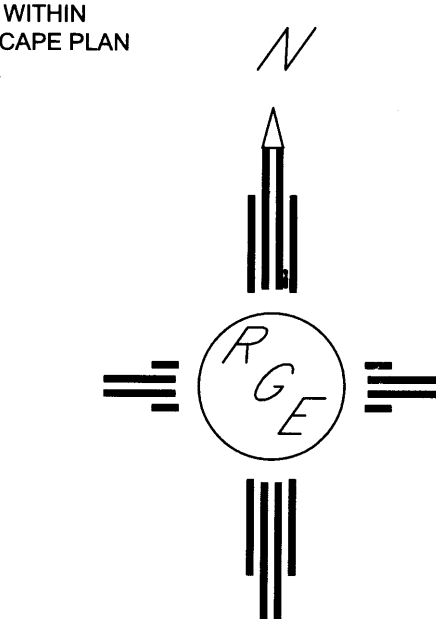
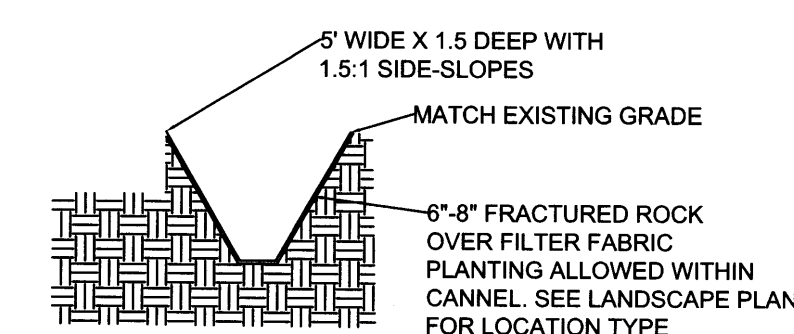
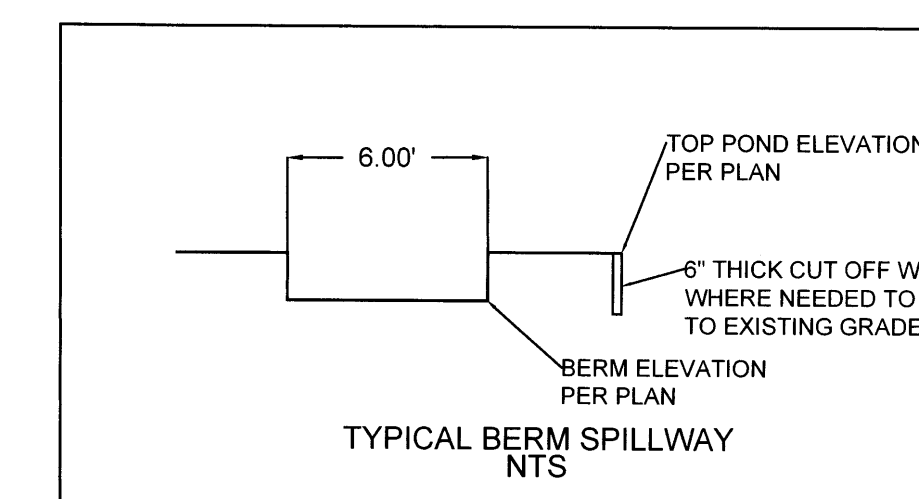
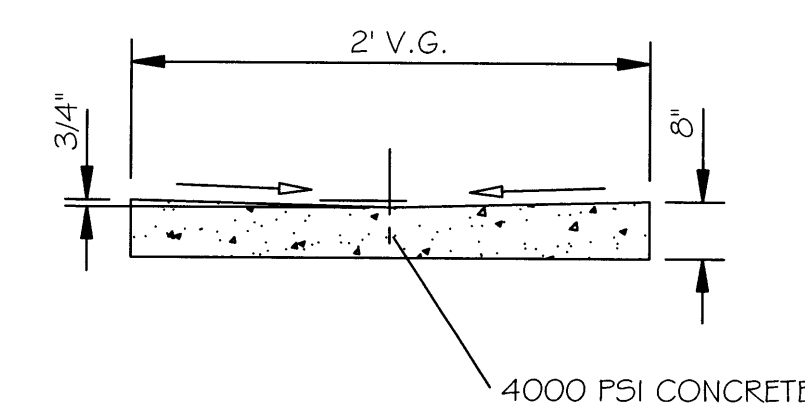
NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY Christopher J. Dehler, NMLS 7923
3. ONSITE CURB SHALL BE 6" UNLESS OTHERWISE NOTED
4. ALL POND SHALL BE LINED WITH 6-8" FRACTURED ROCK. LANDSCAPING SHALL BE INSTALLED WITHIN ROCK.

LEGEND

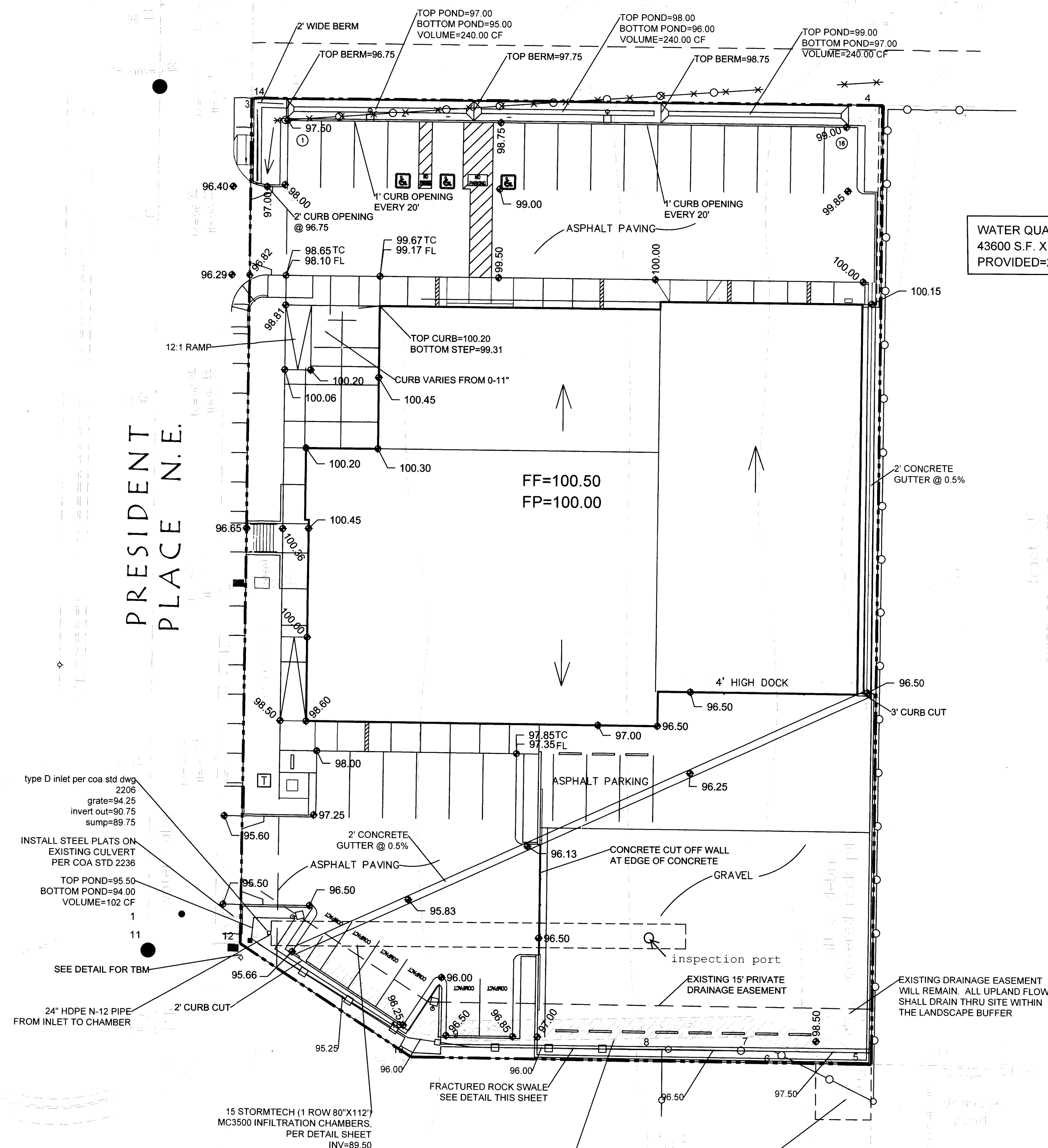
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- - - - -5410- - - - - EXISTING INDEX CONTOUR
- - - - -5411- - - - - PROPOSED CONTOUR
- - - - -5410- - - - - PROPOSED INDEX CONTOUR
- DESIGN ELEVATION

VALLEY GUTTER DETAIL

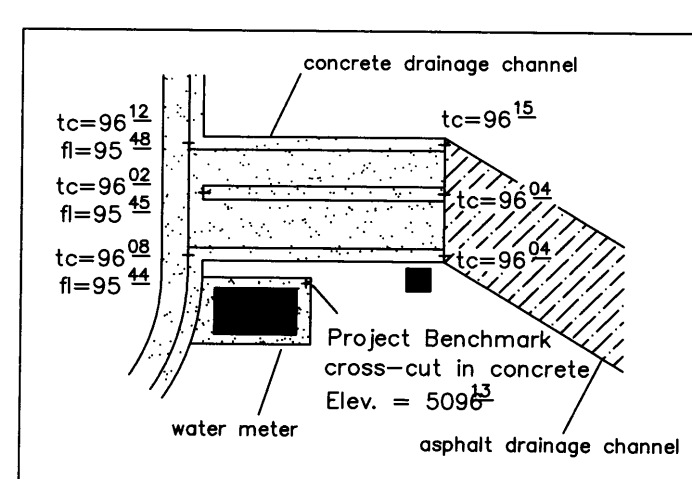


GRAPHIC SCALE

SCALE: 1"=20'

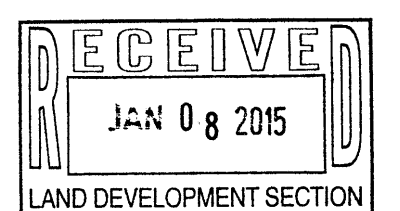


EXISTING



DETAIL NTS

Elevations shown hereon are NAVD88 values. Project Benchmark is a cross-cut in concrete at the southwest corner of Tract B-1-A-5, elevation = 5096.13 feet. Provided by Christopher J. Dehler, NMLS 7923

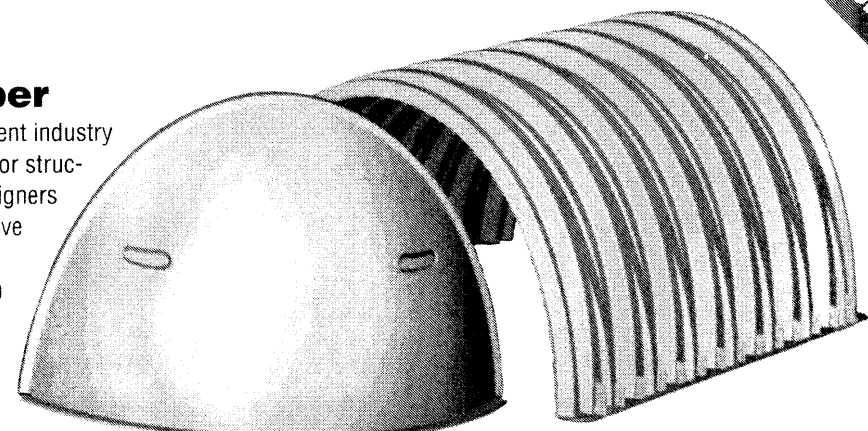


ENGINEER'S SEAL DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522 1/7/14 DAVID SOULE P.E. #14522	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK GRADING AND DRAINAGE PLAN <i>Rio Grande Engineering</i> 1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	DRAWN BY JDG DATE 01-07-2014 SHEET # 1 OF 1 JOB #
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StormTech MC-3500 Chamber

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots thus maximizing land usage for commercial and municipal applications.



StormTech MC-3500 Chamber (not to scale)

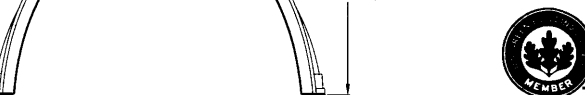
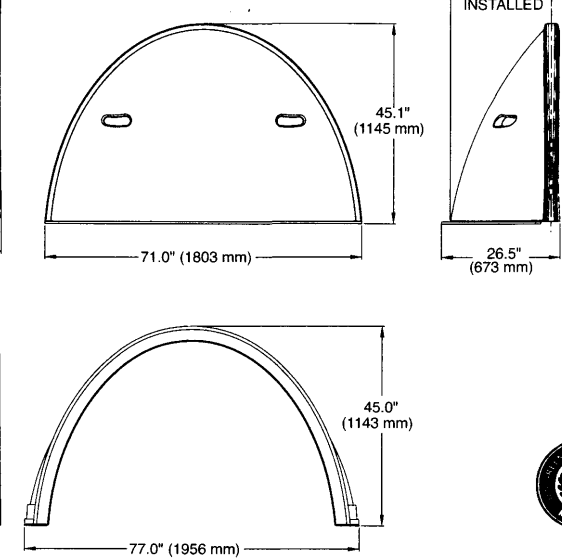
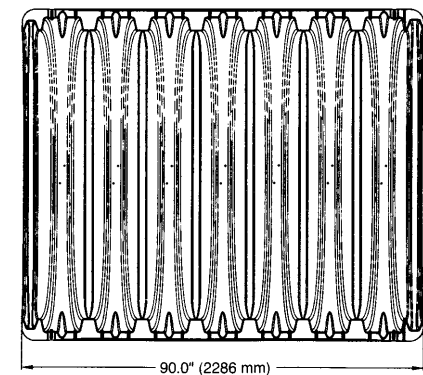
Nominal Chamber Specifications

Size (L x W x H)	90' (2686 mm) x 77' (1956 mm) x 45' (1143 mm)
Chamber Storage	109.9 ft ³ (3.11 m ³)
Min. Installed Storage*	178.9 ft ³ (5.06 m ³)
Weight	134 lbs (60.8 kg)

*This assumes a minimum of 12" (305 mm) of stone above, 9" (229 mm) of stone below, 9" (229 mm) row spacing, and 40% stone porosity.

Shipping

15 chambers/pallet
16 end caps/pallet
7 pallets/truck



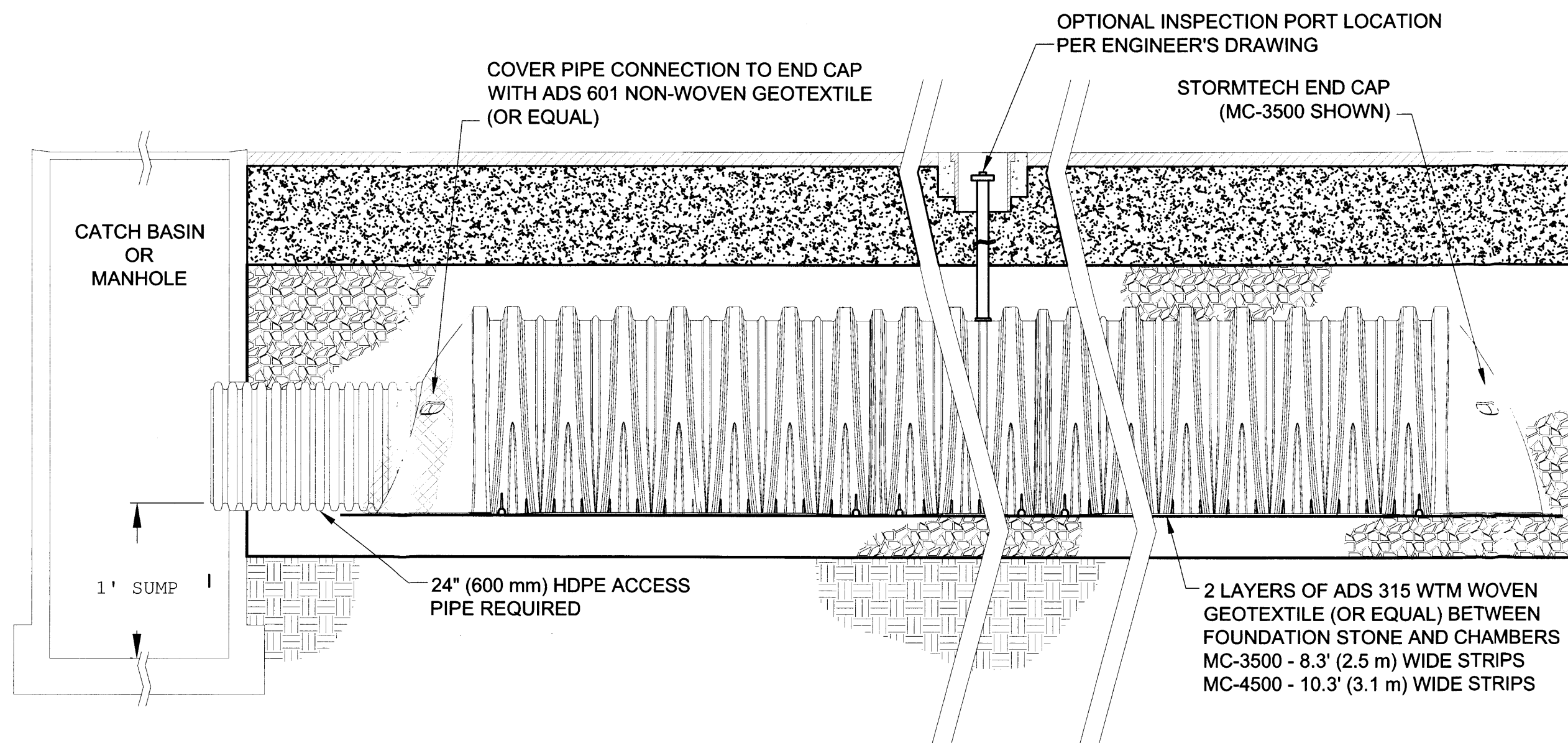
StormTech MC-3500 End Cap (not to scale)

Nominal End Cap Specifications

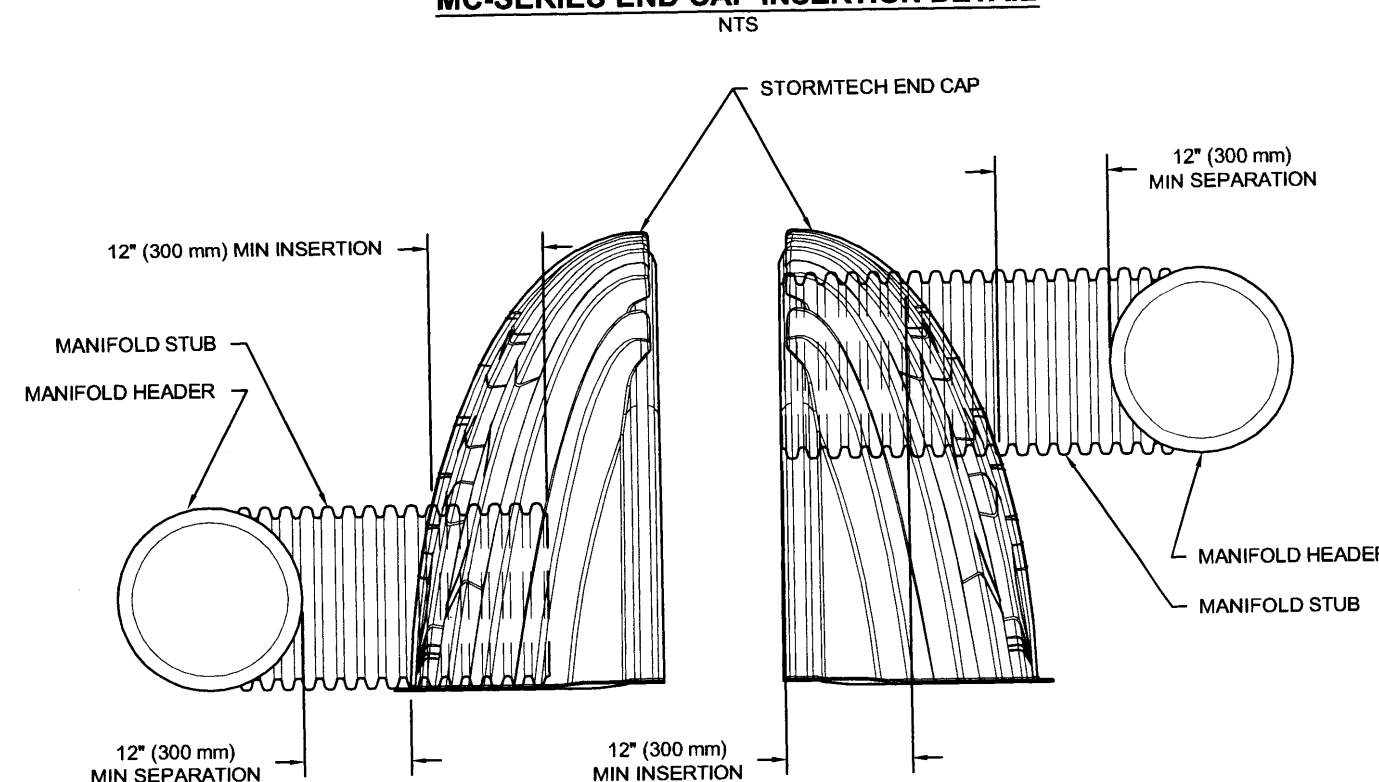
Size (L x W x H)	26.9' (823 mm) x 77' (1956 mm) x 45' (1143 mm)
End Cap Storage	15.6 ft ³ (0.44 m ³)
Min. Installed Storage*	46.9 ft ³ (1.33 m ³)
Weight	43 lbs (19.5 kg)

*This assumes a minimum of 12" (305 mm) of stone above, 9" (229 mm) of stone below, 9" (229 mm) row spacing, 6" (152 mm) of stone perimeter, and 40% stone porosity.

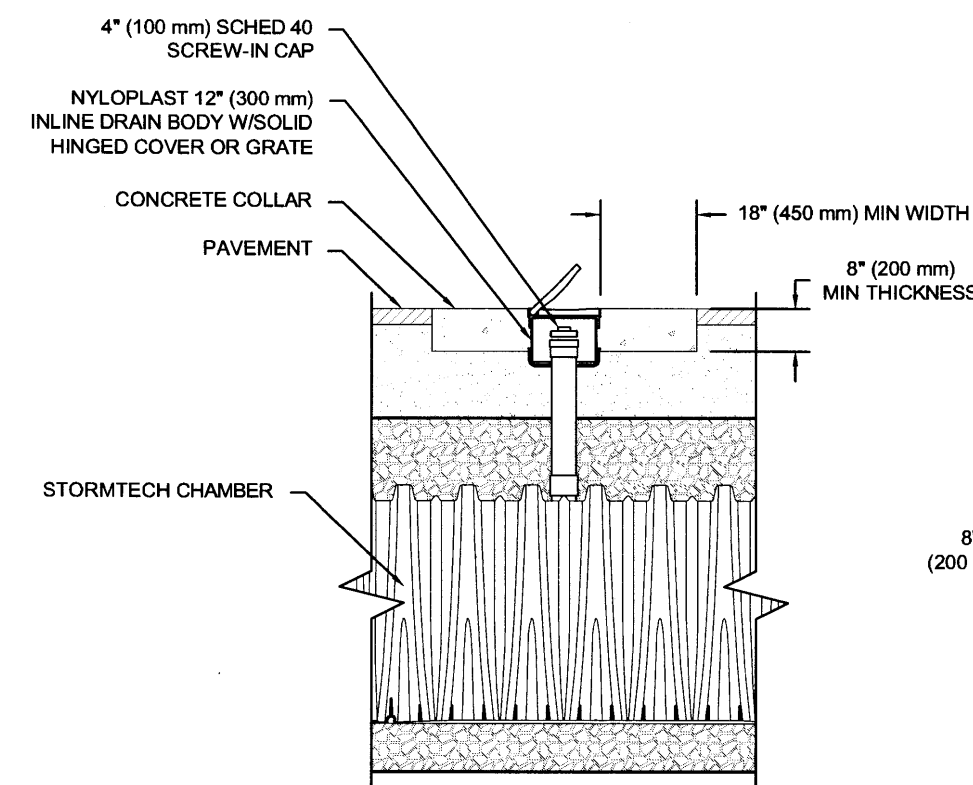
FIGURE 12 – StormTech Isolator Row Detail



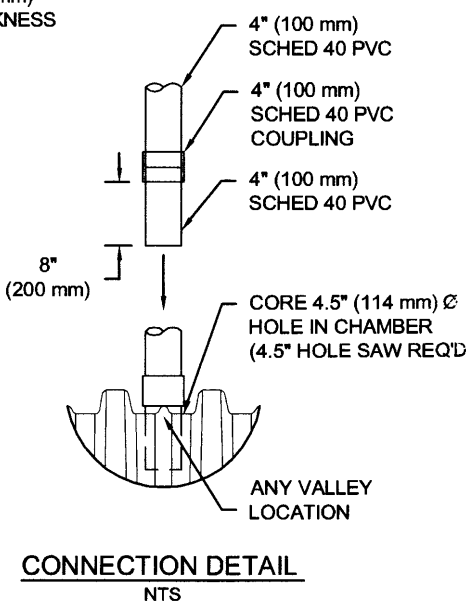
MC-SERIES END CAP INSERTION DETAIL



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.



- NOTES:
- INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.
 - ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED.



Storage Volume Per Chamber/End Cap ft³ (m³)

	Bare Unit Storage	Chamber/End Cap and Stone Volume – Stone Foundation Depth in (mm)
	ft ³ (m ³)	9 (229) 12 (305) 15 (381) 18 (457)
MC-3500 Chamber	109.9 (3.11)	179.9 (5.06) 184.0 (5.21) 189.2 (5.36) 194.3 (5.5)
MC-3500 End Cap	15.64 (0.44)	46.9 (1.33) 48.6 (1.38) 50.3 (1.43) 52.0 (1.47)

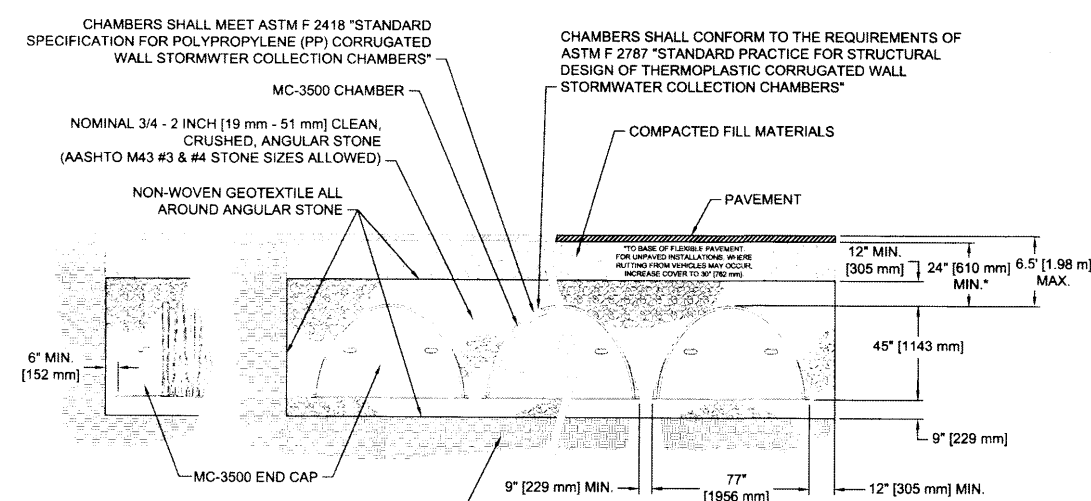
NOTE: Assumes 9" (229 mm) row spacing, 40% stone porosity, 12" (305 mm) stone above and includes the bare chamber/end cap volume. End Cap volume assumes 6" (152 mm) stone perimeter.

Volume of Excavation Per Chamber/End Cap in yd³ (m³)

	Stone Foundation Depth in (mm)
	9 (229) 12 (305) 15 (381) 18 (457)
MC-3500	12.4 (9.5) 12.8 (9.8) 13.3 (10.2) 13.8 (10.5)
End Cap	4.1 (3.1) 4.3 (3.3) 4.4 (3.4) 4.6 (3.5)

NOTE: Assumes 9" (229 mm) of separation between chamber rows and 24" (610 mm) of cover. The volume of excavation will vary as the depth of cover increases.

General Cross Section



- NOTES:
- THIS CROSS SECTION PROVIDES GENERAL INFORMATION FOR THE MC-3500 CHAMBER. STORMTECH MC-3500 CHAMBERS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE MC-3500 DESIGN MANUAL AND MC-3500 CONSTRUCTION GUIDE.
 - PROPERLY INSTALLED MC-3500 CHAMBERS PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR EARTH AND LIVE LOADS WITH CONSIDERATION FOR IMPACT AND MULTIPLE PRESENCES.
 - PERIMETER STONE MUST ALWAYS BE BROUGHT UP EVENLY WITH BACKFILL OF BED. PERIMETER STONE MUST EXTEND HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH STRAIGHT AND SLOPED SIDEWALLS.

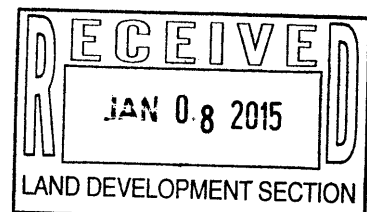


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S150909 06/12

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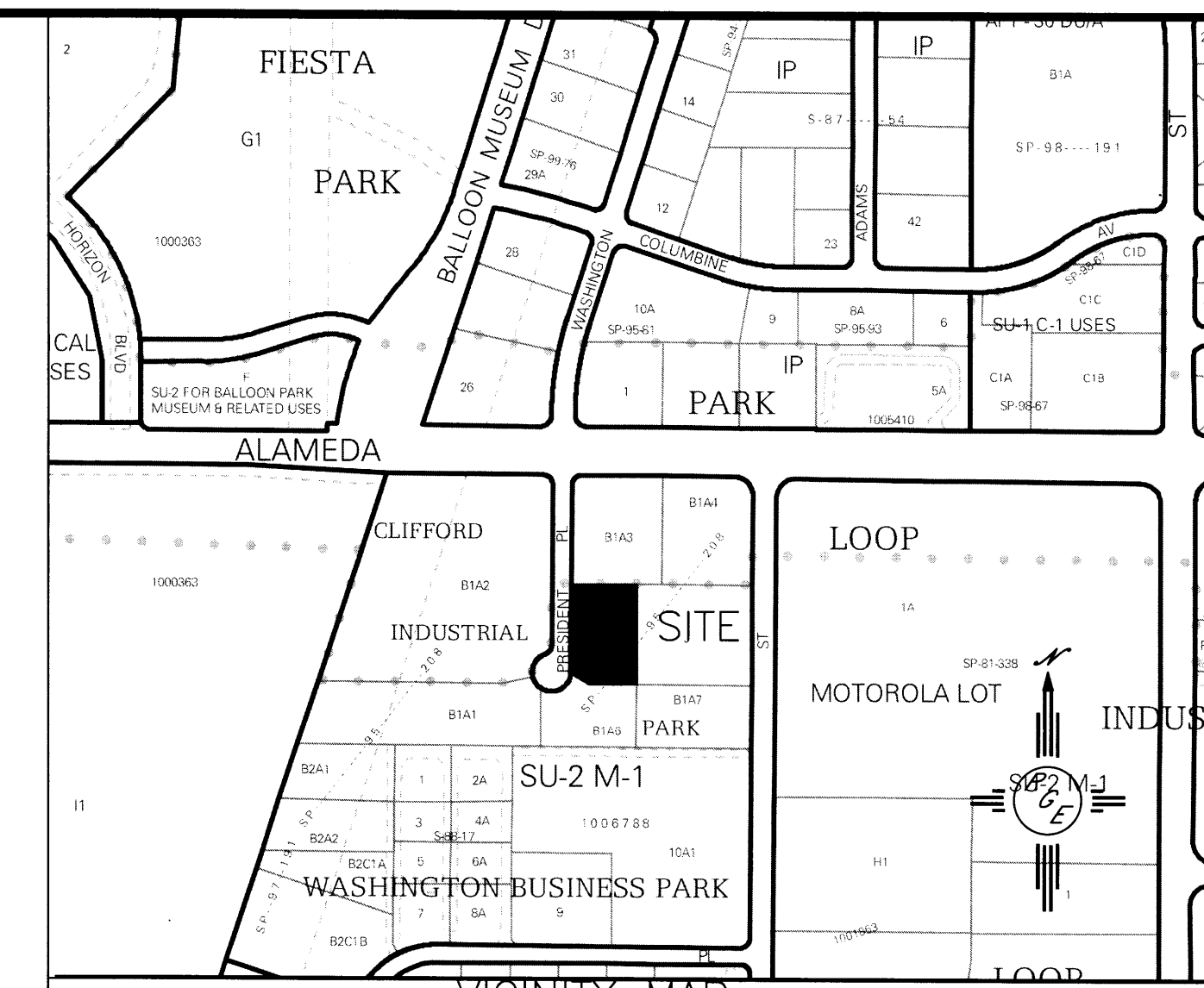
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ENGINEER'S SEAL	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK	DRAWN BY JDG
DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522	DETAIL SHEET	DATE 11-26-2014
1/7/15	Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # 1 OF 1
DAVID SOULE P.E. #14522		JOB #

EROSION CONTROL NOTES:

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LEGAL DESCRIPTION:

Tract B-1-A-5, Clifford Industrial Park

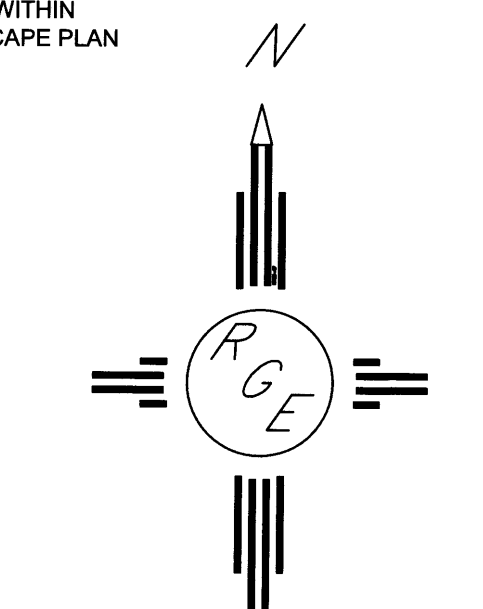
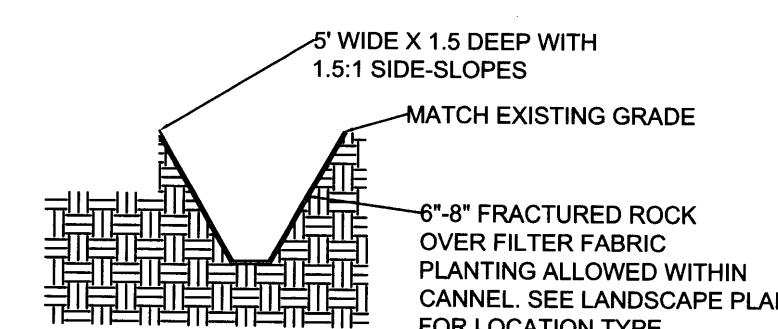
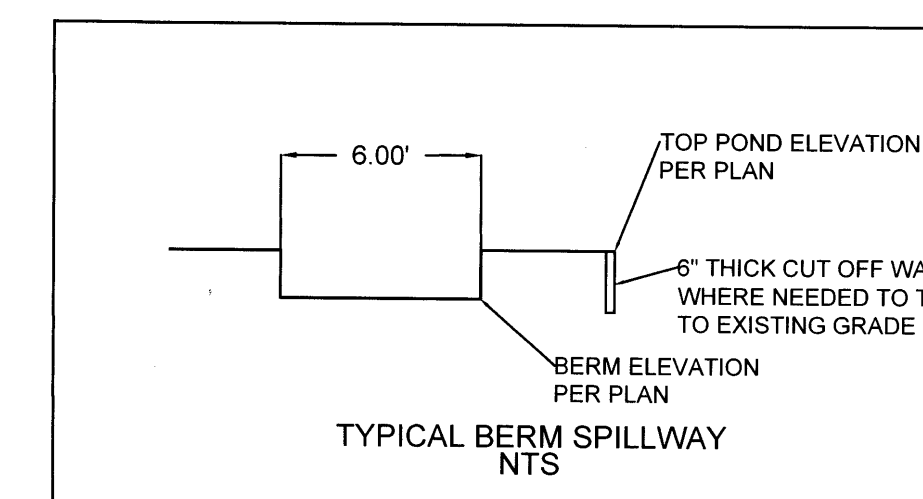
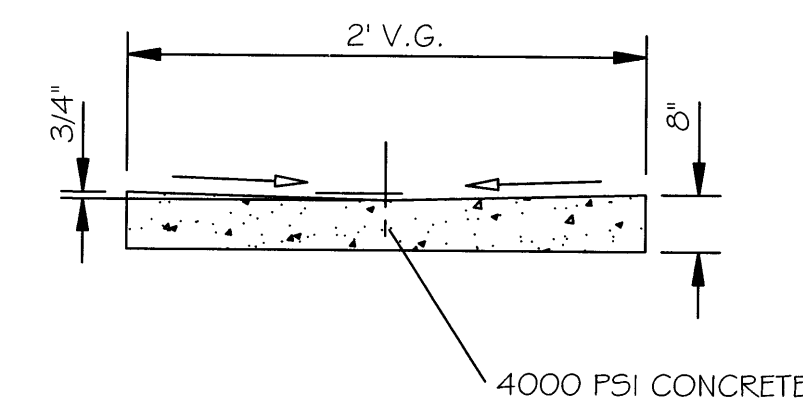
NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY Christopher J. Dehler, NMLS 7923
3. ONSITE CURB SHALL BE 6" UNLESS OTHERWISE NOTED
4. ALL POND SHALL BE LINED WITH 6-8" FRACTURED ROCK. LANDSCAPING SHALL BE INSTALLED WITHIN ROCK.

LEGEND

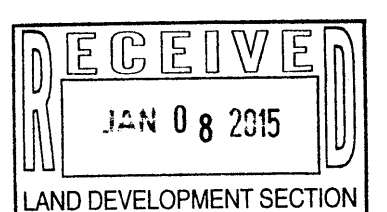
- - - - -5411- - - - - EXISTING CONTOUR
- - - - -5410- - - - - EXISTING INDEX CONTOUR
- - - - -5411- - - - - PROPOSED CONTOUR
- - - - -5410- - - - - PROPOSED INDEX CONTOUR
- DESIGN ELEVATION

VALLEY GUTTER DETAIL



GRAPHIC SCALE

SCALE: 1"=20'



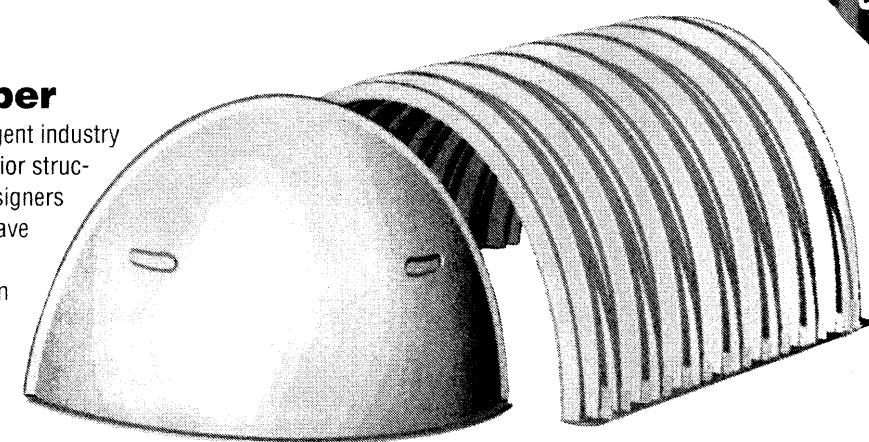
ENGINEER'S SEAL DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522 1/7/14 DAVID SOULE P.E. #14522	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK GRADING AND DRAINAGE PLAN	DRAWN BY JDC
		DATE 01-07-2014
Rio Grande Engineering 1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # 1 OF 1	JOB #
		JOB #

Elevations shown hereon are NAVD88 values. Project Benchmark is a cross-cut in concrete at the southwest corner of Tract B-1-A-5, elevation = 5096.13 feet. Provided by Christopher J. Dehler, NMLS 7923



StormTech MC-3500 Chamber

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots thus maximizing land usage for commercial and municipal applications.



StormTech MC-3500 Chamber (not to scale)

Nominal Chamber Specifications

Size (L x W x H)	90" (2286 mm) x 77" (1956 mm) x 45" (1143 mm)
Chamber Storage	109.9 ft ³ (3.11 m ³)
Min. Installed Storage*	178.9 ft ³ (5.06 m ³)
Weight	134 lbs (60.8 kg)

* This assumes a minimum of 12" (305 mm) of stone above 9" (229 mm) of stone below chambers. 9" (229 mm) cap storage and 40% stone porosity.

StormTech MC-3500 End Cap (not to scale)

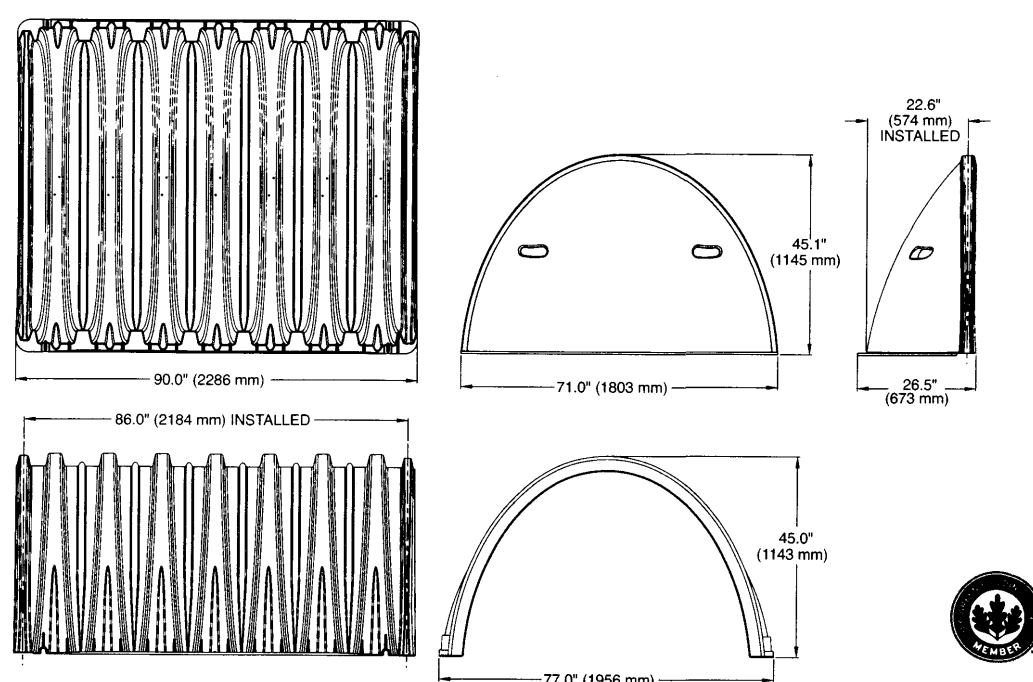
Nominal End Cap Specifications

Size (L x W x H)	26" (673 mm) x 77" (1956 mm) x 45" (1143 mm)
End Cap Storage	15.6 ft ³ (0.44 m ³)
Min. Installed Storage*	46.9 ft ³ (1.33 m ³)
Weight	43 lbs (19.5 kg)

* This assumes a minimum of 12" (305 mm) of stone above 9" (229 mm) of stone below 9" (229 mm) low capacity 9" (152 mm) of stone perimeter and 40% stone porosity.

Shipping

15 chambers/pallet
16 end caps/pallet
7 pallets/truck



Storage Volume Per Chamber/End Cap ft³ (m³)

Unit	Chamber/End Cap and Stone Volume — Stone Foundation Depth in. (mm)			
	9" (229)	12" (305)	15" (381)	18" (457)
MC-3500 Chamber	109.9 (3.11)	178.9 (5.06)	184.0 (5.21)	189.2 (5.36)
MC-3500 End Cap	15.6 (0.44)	46.9 (1.33)	48.6 (1.38)	50.3 (1.43)

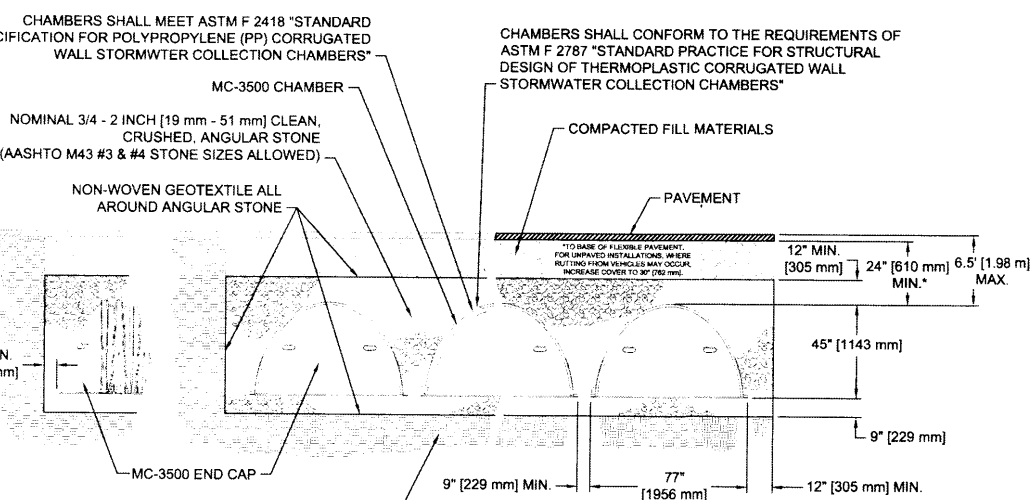
NOTE: Assumes 9" (229 mm) row spacing, 40% stone porosity 12" (305 mm) stone above and includes the bare chamber/end cap volume. End Cap volume assumes 6" (152 mm) stone perimeter.

Volume of Excavation Per Chamber/End Cap in yd³ (m³)

Unit	Stone Foundation Depth in. (mm)			
	9" (229)	12" (305)	15" (381)	18" (457)
MC-3500	12.4 (9.5)	12.8 (9.6)	13.3 (10.2)	13.8 (10.5)
End Cap	4.1 (3.1)	4.3 (3.3)	4.4 (3.4)	4.6 (3.5)

NOTE: Assumes 9" (229 mm) of separation between chamber rows and 24" (610 mm) of cover. The volume of excavation will vary as the depth of cover increases.

General Cross Section



- THIS CROSS SECTION PROVIDES GENERAL INFORMATION FOR THE MC-3500 CHAMBER. STORMTECH MC-3500 CHAMBERS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE MC-3500 DESIGN MANUAL AND MC-3500 CONSTRUCTION GUIDE.
- PROPERLY INSTALLED MC-3500 CHAMBERS PROVIDE THE LOAD FACTORS SPECIFIED IN THE ASPHALT/PORTLAND CEMENT DESIGN SPECIFICATIONS FOR EARTH AND LIVE LOADS WITH CONSIDERATION FOR IMPACT AND MULTIPLE PRESENCES.
- PERIMETER STONE MUST ALWAYS BE BROUGHT UP EVENLY WITH SHOULDER OR BED. PERIMETER STONE MUST EXTEND HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH STRAIGHT OR SLOPED SIDEWALLS.



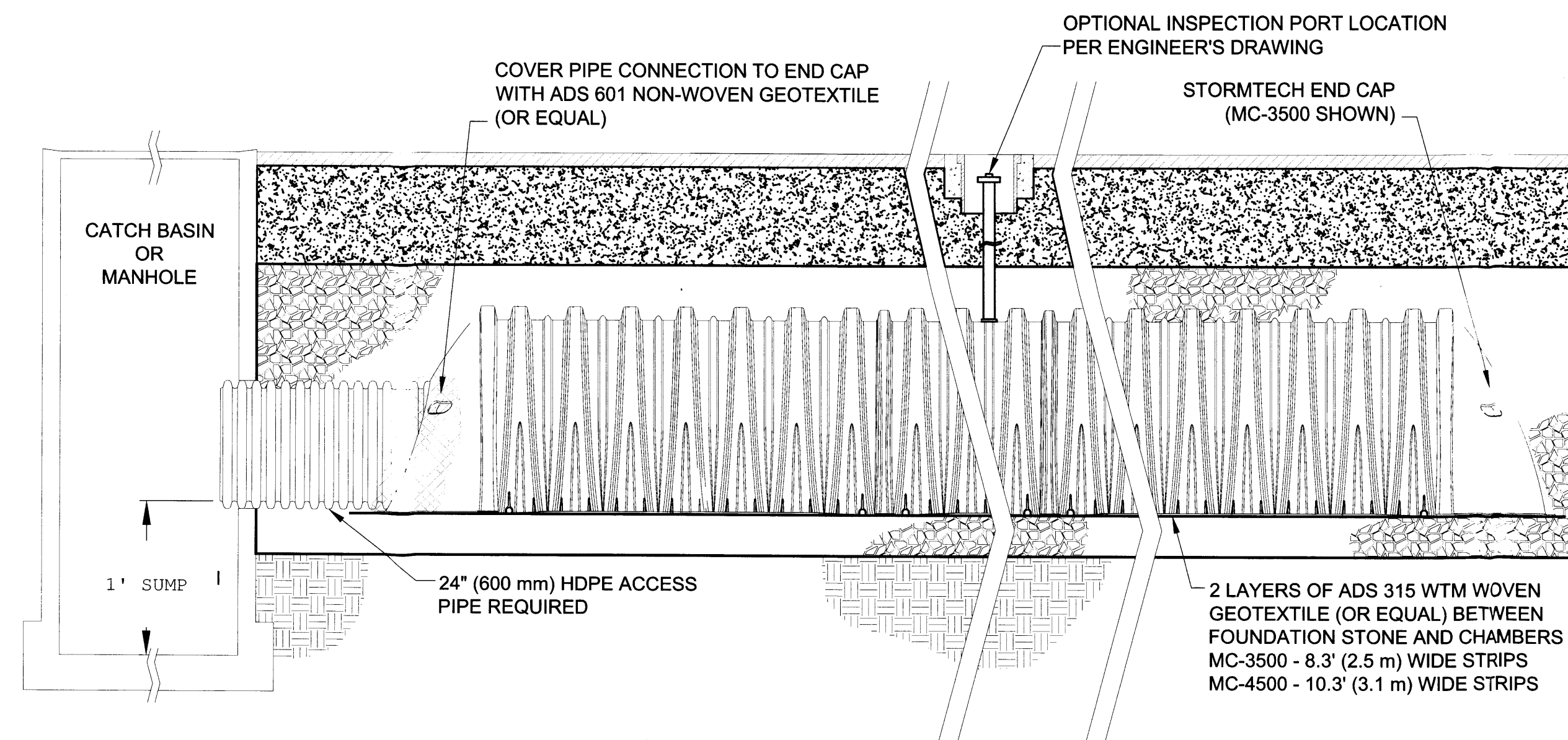
70 Inwood Road, Suite 3 | Rocky Hill | Connecticut | 06067
860-529-8188 | 860-892-2694 | fax 860-328-8401 | www.stormtech.com

ADS Terms and Conditions of Sale are available on the ADS website, www.ads-pipe.com
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StormTech is a registered trademark of StormTech, Inc.
The Green Building Council Member logo is a registered trademark of the U.S. Green Building Council.
5150909-0012

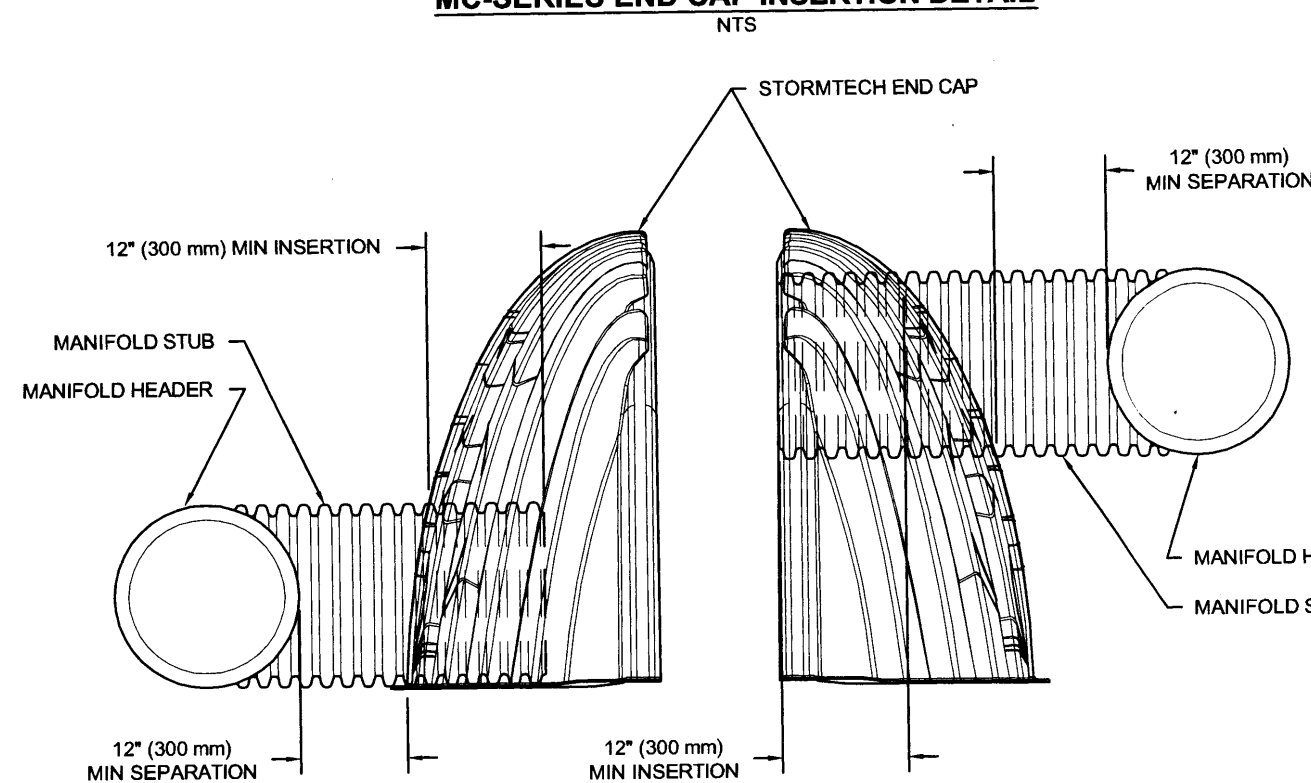
© 2012 Advanced Drainage Systems, Inc.

Printed on recycled paper

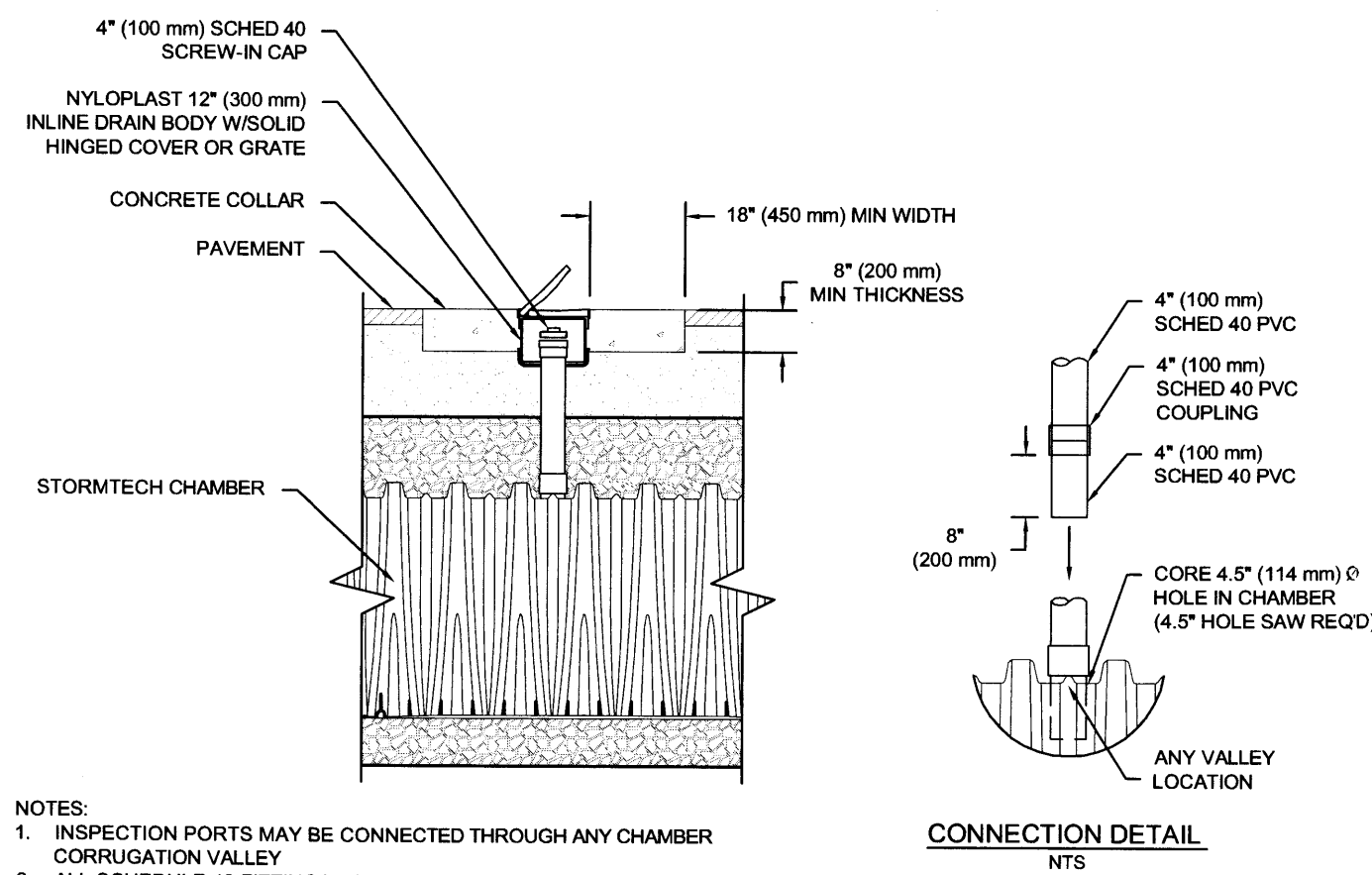
FIGURE 12 – StormTech Isolator Row Detail



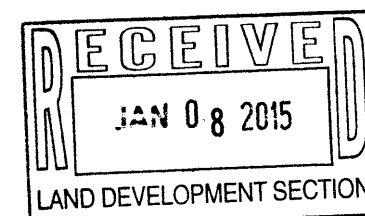
MC-SERIES END CAP INSERTION DETAIL



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.



- NOTES:
- INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.
 - ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED.



ENGINEER'S SEAL 1/7/15 DAVID SOULE P.E. #14522	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK	DRAWN BY JDC
	DETAIL SHEET	DATE 11-26-2014
	 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # 1 OF 1 JOB #

Weighted E Method
KIRKPATRICK

Basin	Area (sq)	Area (acres)	Treatment A (%)	Treatment B (%)	Treatment C (%)	Treatment D (%)	100-Year Q ₂ (cfs)	Volume (ac-ft)	Flow (cfs)	10-day Volume (ac-ft)
BASIN A	10304	0.374	0%	0%	0%	0%	1.66	1.66	1.66	1.66
BASIN B	24640	0.568	0%	13.0%	0.074	31.0%	0.17535	0.4%	0.305	2.15
BASIN C	2816	0.080	0%	7.0%	0.004	75.0%	0.04054	18%	0.011	0.20
TOTAL	43600	1.022	0%	7.0%	0.004	75.0%	1.881	2.06	2.06	4.01

Equations:

Weighted E = E_AA_A + E_BA_B + E_CA_C + E_DA_D / (Total Area)

Volume = Weighted E * Total Area

Flow = Q_A*A_A + Q_B*A_B + Q_C*A_C + Q_D*A_D

Where for 100-year flow storm (zone 3)

E_A = 0.53
E_B = 0.75
E_C = 1.13
E_D = 2.12

Reduction of discharge
basin A 38% 1010 retained/2657 generated
basin B 50% 1652 retained/3287 generated
water quality requirement 1234.88
pond basin B 1652.00
pond basin A 1010.00
Total retained 2662.00
Theoretical discharge 62% Basin A+50% Basin B=100%Basin C= 2.302804

allowed discharge 2.3 cfs
THE SUBJECT PROPERTY IS LOCATED WITHIN BASIN D OF THE C-17 DUMP GRADING PLAN. THIS SITE IS ALLOWED TO FREE DISCHARGE 2.3 CFS PER ACRE. THE SITE ACCEPTS 12.8 CFS FROM THE UPLAND LOTS. THE FLOW SHALL PASS THRU THE SITE TO REDUCE FLOW TO ALLOWED BASIN B AND D WILL BE RETAINED.

Tract B-1-A-3
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 33 I

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

PRIVATE DRAINAGE IMPROVEMNET IN PUBLIC ROW

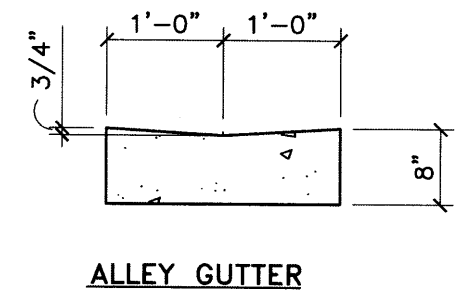
NOTICE TO CONTRACTORS

Notice to Contractor
(Special Order 19 ~ "S0-19")

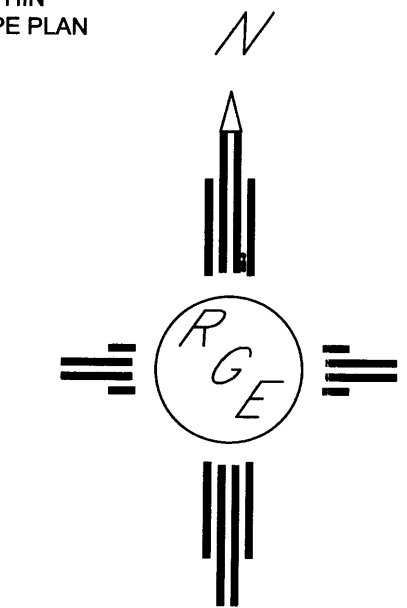
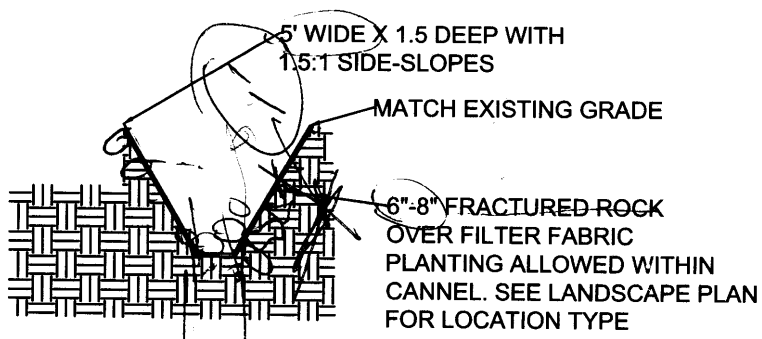
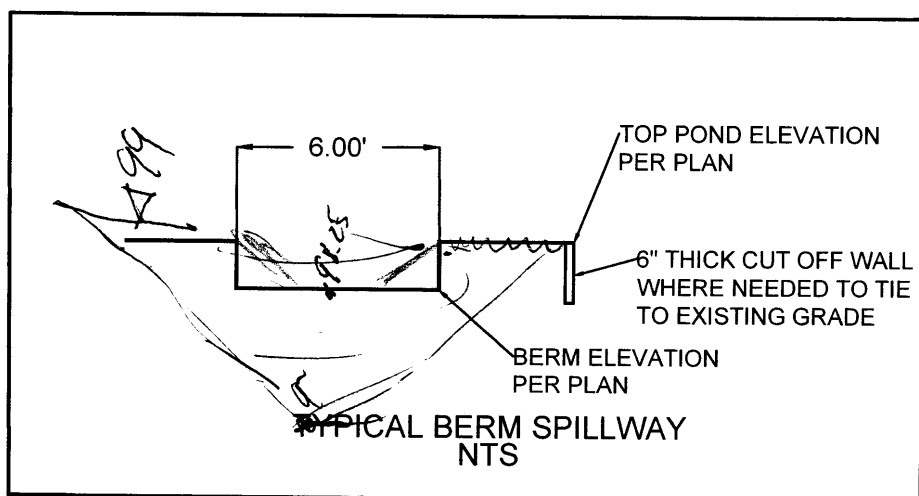
1. An excavation permit will be required before beginning any work within City Right-Of-Way.
2. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
3. Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to traffic/street use.
6. Maintenance of the facility 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.
8. Prior to pouring concrete, contractor shall notify the storm drain inspector, 857-8074, to inspect reinforcement.

APPROVAL	NAME	DATE
INSPECTOR		

WATER QUALITY REQUIREMENT
43600 S.F. X .34/12=1237 CF
PROVIDED=2678.00 CF

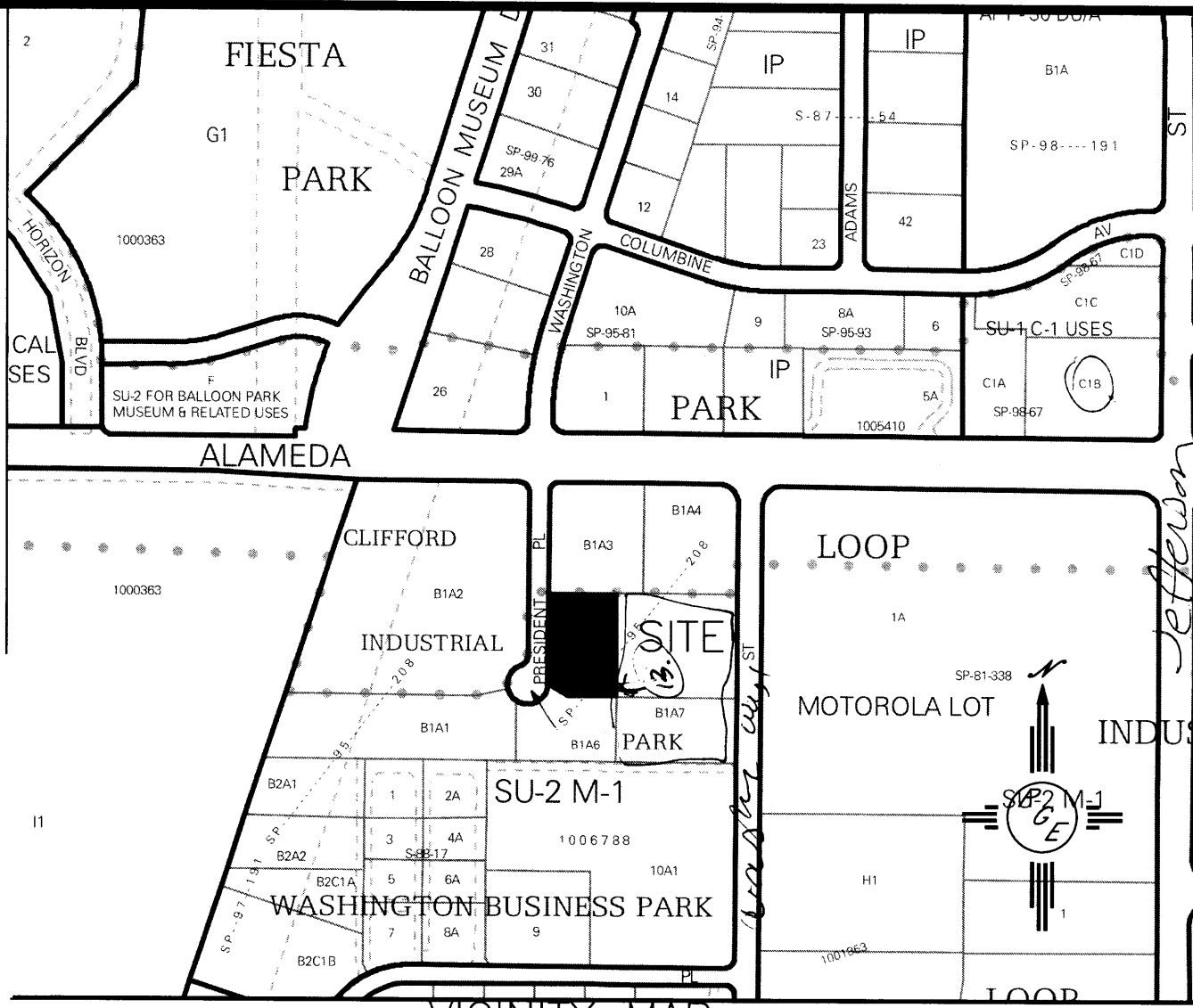


ALLEY GUTTER



GRAPHIC SCALE

SCALE: 1"=20'



LEGAL DESCRIPTION:

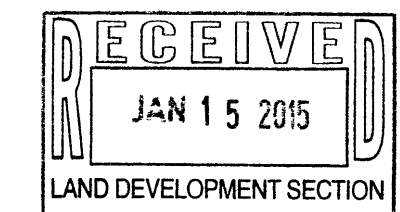
Tract B-1-A-5, Clifford Industrial Park

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY Christopher J. Dehler, NMLS 7923
3. ONSITE CURB SHALL BE 6" UNLESS OTHERWISE NOTED
4. ALL POND SHALL BE LINED WITH 6-8" FRACTURED ROCK. LANDSCAPING SHALL BE INSTALLED WITHIN ROCK.

LEGEND

- - - -5411- - - - EXISTING CONTOUR
- - - -5410- - - - EXISTING INDEX CONTOUR
- - - -5411- - - - PROPOSED CONTOUR
- - - -5410- - - - PROPOSED INDEX CONTOUR
- DESIGN ELEVATION



ENGINEER'S SEAL DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK GRADING AND DRAINAGE PLAN	DRAWN BY: JDG DATE: 01-12-2015 SHEET # 1 OF 1 JOB #
1/13/15 DAVID SOULE P.E. #14522	Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	

Area for 43500

1.65 x 1.62 = 2.65 x 1.5 = 3.975
Area = 3.975 x 1.2 = 4.77

PRESIDENT PLACE N.E.

Tract "J"
CLIFFORD INDUSTRIAL PARK
Filed 6/28/1986, Vol. C36, Folio 18 I

Tract B-1-A-6
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 33 I

Tract B-1-A-7
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 33 I

Elevations shown hereon are NAVD83 values. Project Benchmark is a cross-cut in concrete at the southwest corner of Tract B-1-A-5, elevation = 5096.13 feet. Provided by Christopher J. Dehler, NMLS 7923

Weighted E Method									
KIRKPATRICK									
Existing Developed Basins									
Basin	Area	Area	Treatment A	Treatment B	Treatment C	Treatment D	Weighted E	Volume	Flow
(sq ft)	(sq ft)	(sq ft)	(%)	(%)	(%)	(%)	(%)	(cu ft)	(cfs)
BASIN A	16004	0.374	0%	0%	0.00%	0.00%	0.00%	1.953	0.061
BASIN B	24640	0.560	0%	0%	13.00%	0.074	31.0%	0.350	0.012
BASIN C	2016	0.046	0%	0%	7.00%	0.004	17.0%	0.004	0.001
TOTAL	43660	1.000	0%	0%	10.00%	0.078	48.0%	2.307	0.074

Equations:

Weighted E = $E_A \cdot A_A + E_B \cdot A_B + E_C \cdot A_C + E_D \cdot A_D$ (Total Area)

Volume = Weighted E * Total Area

Flow = $Q_A \cdot A_A + Q_B \cdot A_B + Q_C \cdot A_C + Q_D \cdot A_D$

Where for 100-year storm (zone 3):

$E_A = 0.33$
 $E_B = 0.78$
 $E_C = 1.13$
 $E_D = 2.12$

Reduction of discharge:

basin A: 38% retained/62% generated
basin B: 50% retained/50% generated
basin C: 100% retained/0% generated

100% Basin A=50% Basin B=100% Basin C= 2.30204

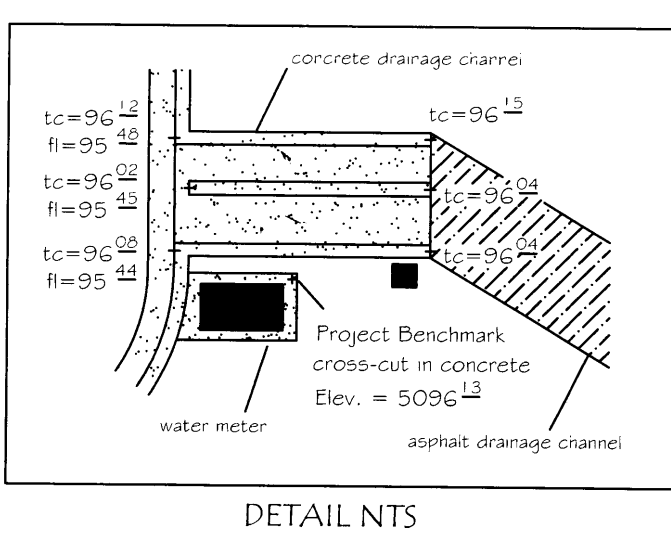
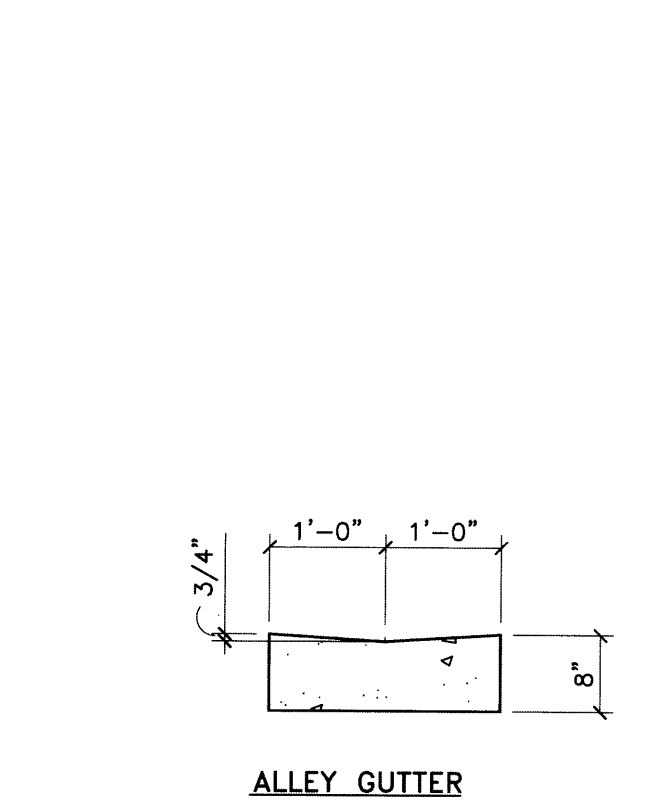
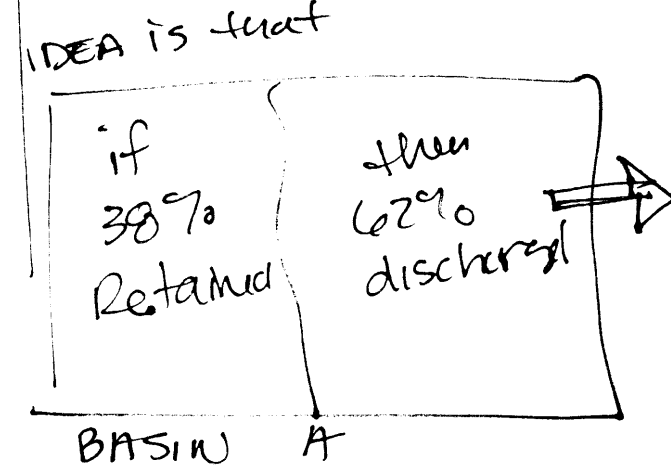
allowed discharge: 2.3 cfs

THE SUBJECT PROPERTY IS LOCATED WITHIN BASIN D OF THE CITY OF DALLAS GRADING PLAN. THIS SITE IS ALLOWED TO FREE DISCHARGE 2.3 CFS PER ACRE. THE SITE ACCEPTS 12.9 CFS FROM THE UPLAND LOTS. THE FLOW SHALL PASS THRU THE SITE. TO REDUCE FLOW TO ALLOWED BASINS B AND D WILL BE RETAINED.

Handwritten:

Basin A = $0.62 \times 1.65 = 1.023$
Basin B = $0.50 \times 2.12 = 1.05$
Basin C = 100%
 $\frac{1.023 + 1.05}{2.27} = 0.91$ *< 2.3 allowed*

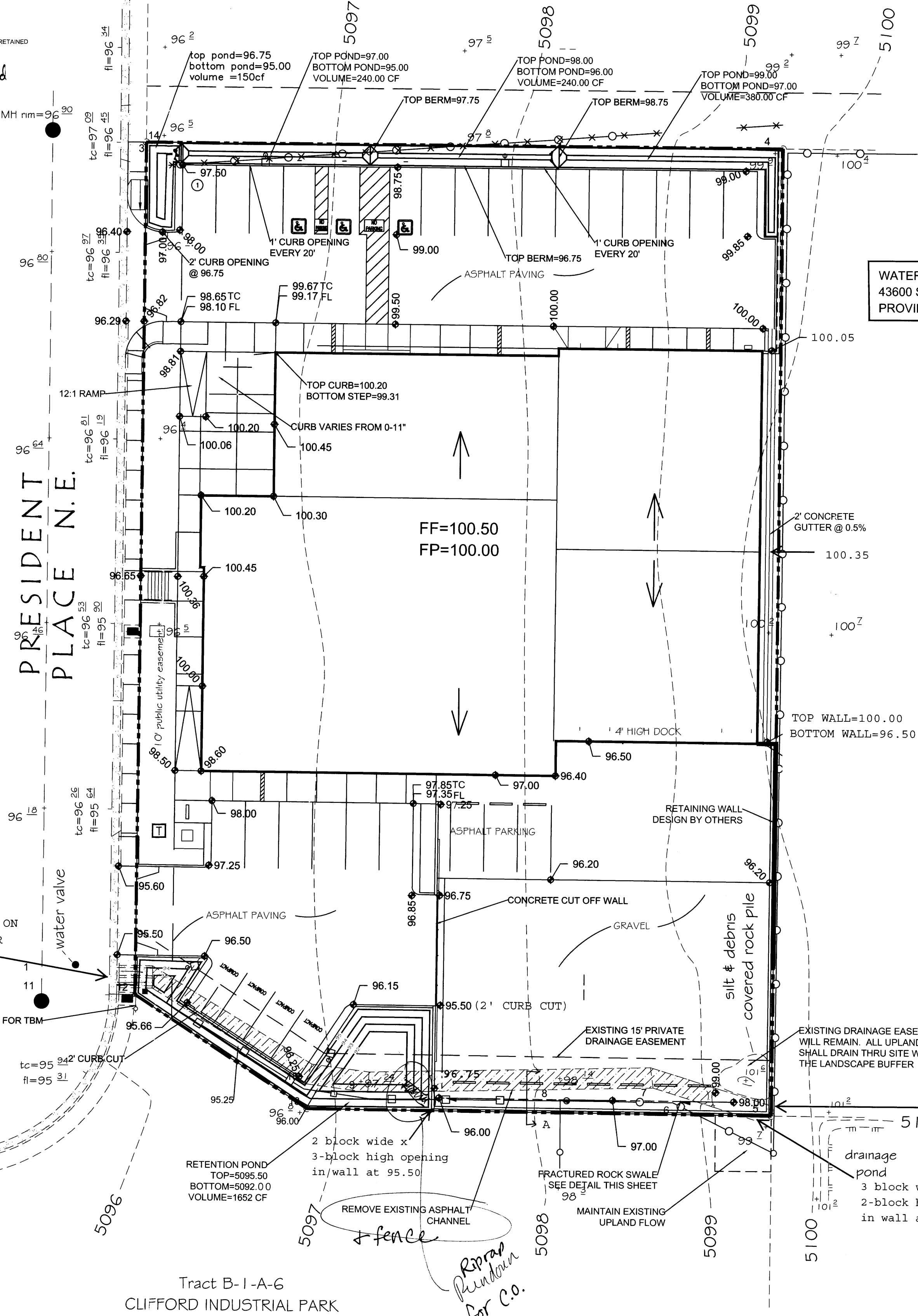
IDEA is that if 38% retained then 62% discharge



Handwritten: A = 1 so fr = 0.91

Elevations shown hereon are NAVD83 values. Project Benchmark is a cross-cut in concrete at the southwest corner of Tract B-1-A-5, elevation = 5096.13 feet. Provided by Christopher J. Dehler, NMLS 7923

Tract B-1-A-3
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 331



WATER QUALITY REQUIREMENT
43600 S.F. X .34/12=1237 CF
PROVIDED=2678.00 CF

Tract "J"
CLIFFORD INDUSTRIAL PARK
Filed 6/26/1988, Vol. C36, Folio 181

Tract B-1-A-7
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 331

EROSION CONTROL NOTES:

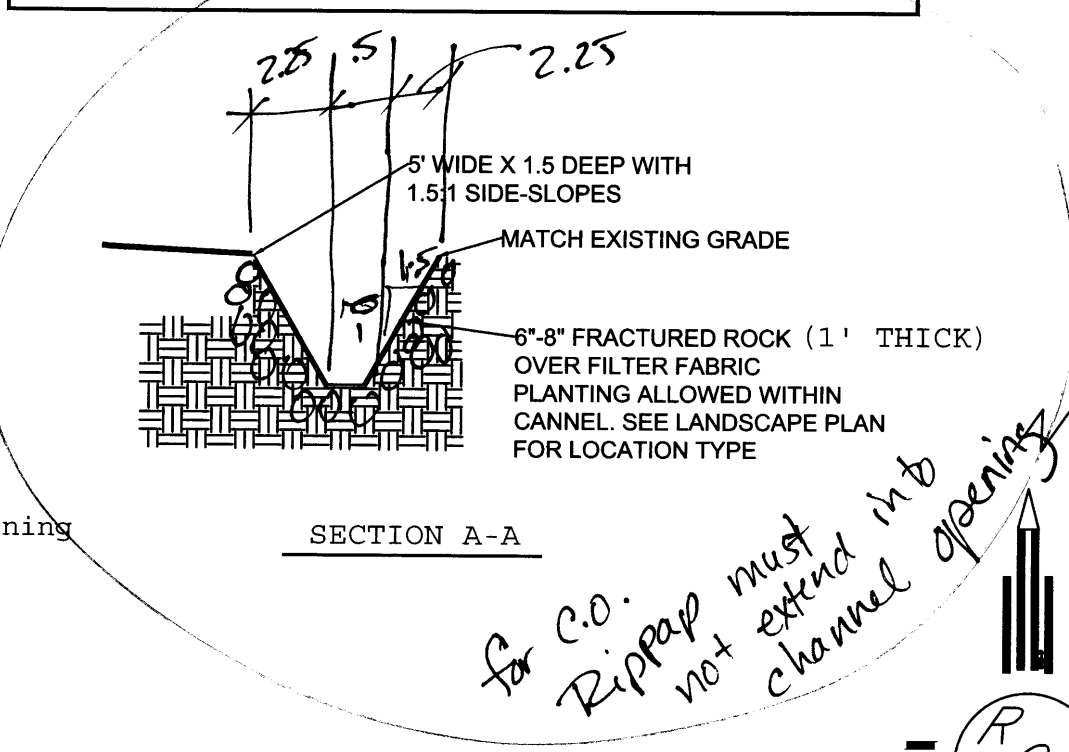
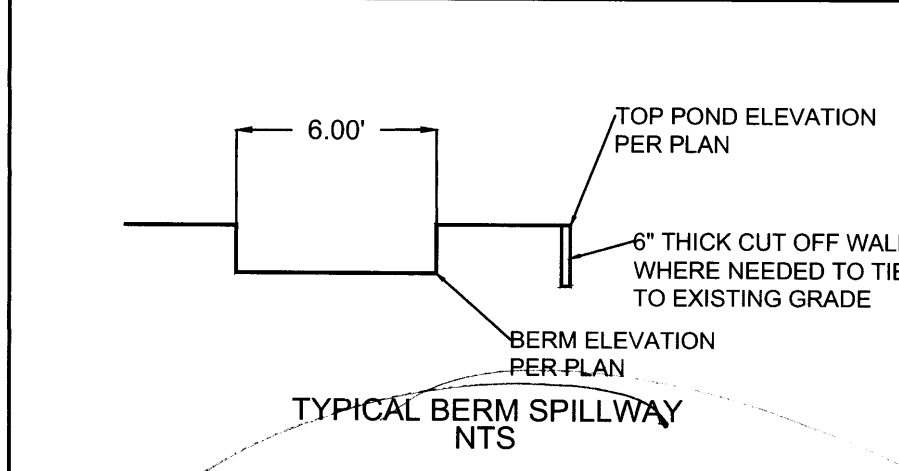
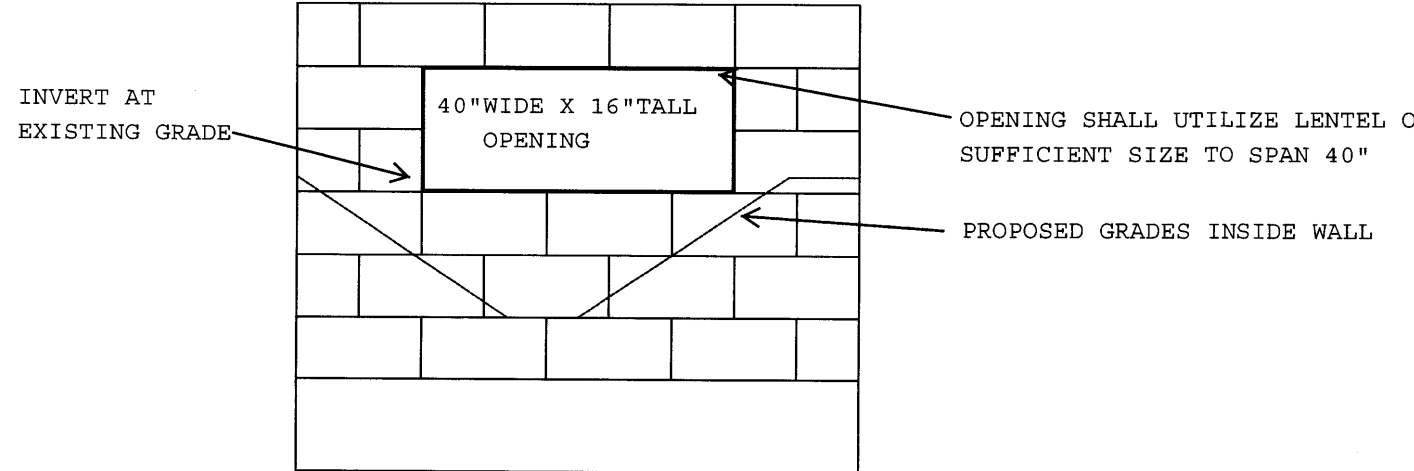
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- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

PRIVATE DRAINAGE IMPROVEMNET IN PUBLIC ROW NOTICE TO CONTRACTORS

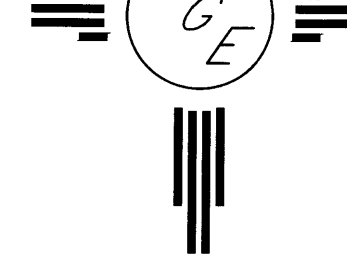
Notice to Contractor
(Special Order 19 ~ "50-19")

- An excavation permit will be required before beginning any work within City Right-Of-Way.
- All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
- Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the location of existing utilities.
- Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to traffic/street use.
- Maintenance of the facility shall be the responsibility of the owner of the property being served.
- Work on arterial streets shall be performed on a 24-hour basis.
- Prior to pouring concrete, contractor shall notify the storm drain inspector, 857-8074, to inspect reinforcement.

APPROVAL	NAME	DATE
INSPECTOR		



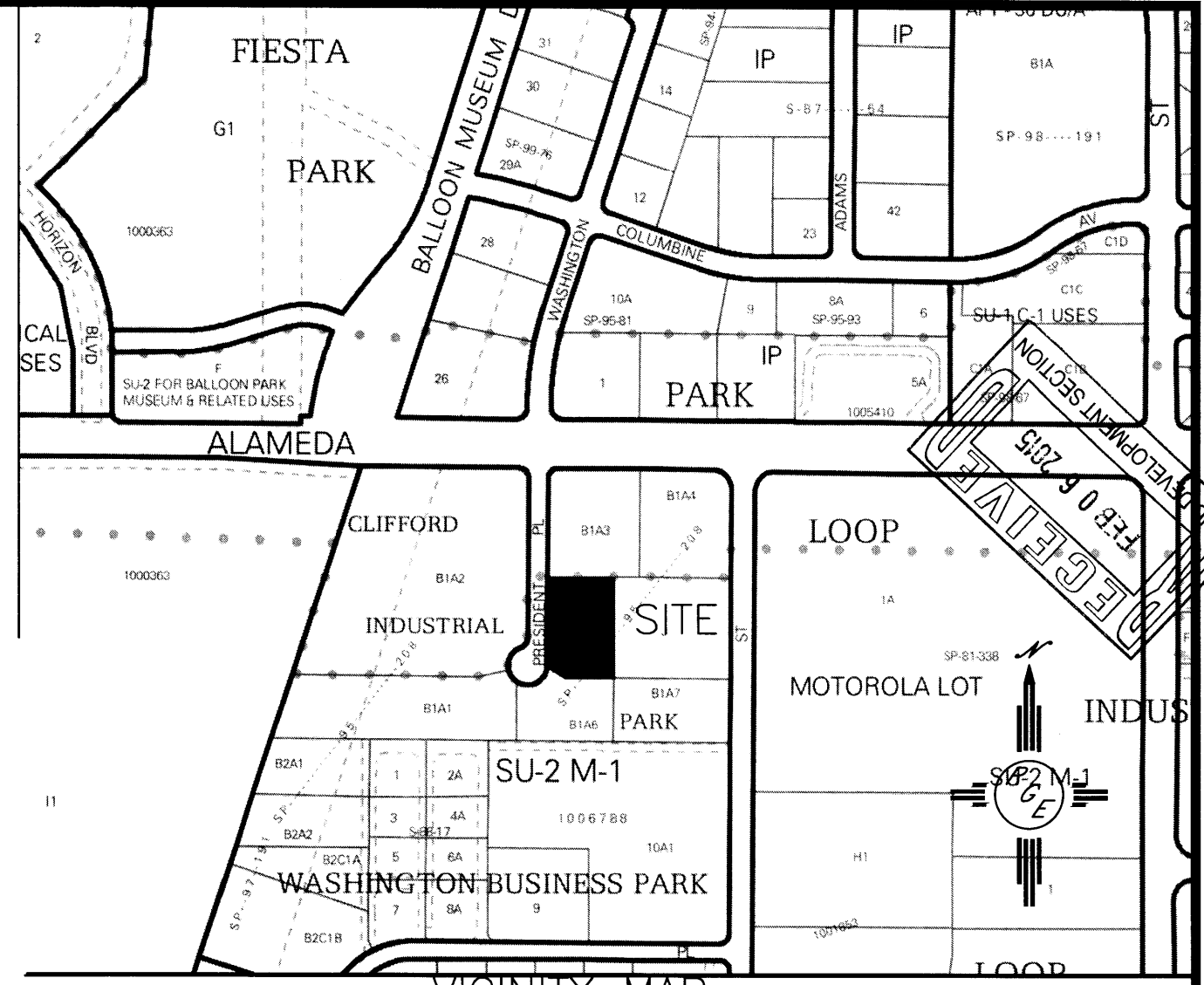
Handwritten: for C.O. Riprap must not extend into channel opening



GRAPHIC SCALE



SCALE: 1"=20'



LEGAL DESCRIPTION:

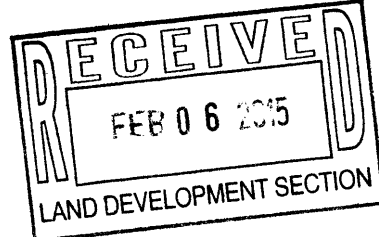
Tract B-1-A-5, Clifford Industrial Park

NOTES:

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LEGEND

- - - - -5411- - - - - EXISTING CONTOUR
- - - - -5410- - - - - EXISTING INDEX CONTOUR
- - - - -5411- - - - - PROPOSED CONTOUR
- - - - -5410- - - - - PROPOSED INDEX CONTOUR
- DESIGN ELEVATION



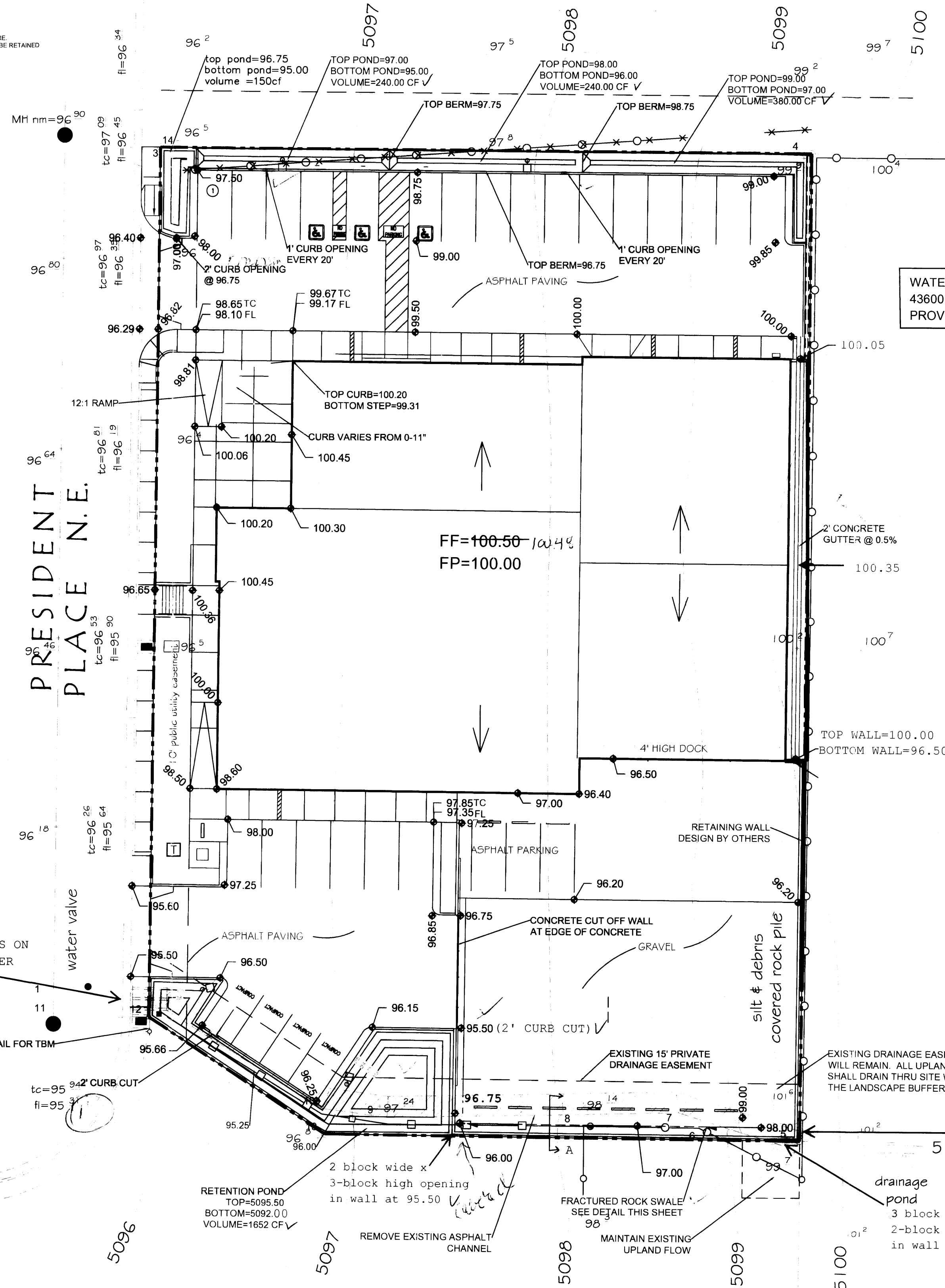
ENGINEER'S SEAL DAVID SOULE P.E. #14522	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK	DRAWN BY JDG
	GRADING AND DRAINAGE PLAN	DATE 01-12-2015
 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999		SHEET # 1 OF 1
		JOB #

Weighted E Method
KIRKPATRICK

Basin	Area (sq ft)	Area (acres)	100 Year 6 hr				Weighted E (ac-ft)	Volume (ac-ft)	Flow (cfs)	Volume (ac-ft)
			Treatment A (%)	Treatment B (%)	Treatment C (%)	Treatment D (%)				
BASIN A	18304	0.414	0%	0%	0.000	0.000	0.000	0.000	0.000	0.000
BASIN B	24640	0.564	0%	0%	0.000	0.000	0.000	0.000	0.000	0.000
BASIN C	2616	0.060	0%	0%	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	43660	1.000	0%	0%	0.000	0.000	0.000	0.000	0.000	0.000

Equations:
Weighted E = $E_A A_A + E_B A_B + E_C A_C + E_D A_D$ (Total Area)
Volume = Weighted E * Total Area
Flow = $Q_A A_A + Q_B A_B + Q_C A_C + Q_D A_D$
Where for 100 year 6 hour storm (zone 3):
 $Q_A = 1.57$
 $Q_B = 0.78$
 $Q_C = 1.13$
 $Q_D = 2.12$
Reduction of discharge:
Basin A: 38% 1010 retained/2657 generated
Basin B: 50% 1652 retained/3267 generated
Basin C: 1234.86
Total retained: 1652.00 cf
Total released: 1010.00 cf
Theoretical discharge: 62% Basin A=100% Basin B=100% Basin C= 2.302804
2.3 cfs
The subject property is located within Basin D of the C-170116 Grading Plan. This site is allowed to free discharge 2.3 cfs per acre. The site accepts 12.9 cfs from the upland lots. The flow shall pass thru the site. To reduce flow to allowed basins B and C will be retained.

Tract B-1-A-3
CLIFFORD INDUSTRIAL PARK
Filed 8/31/1995, Volume 95C, Folio 331



WATER QUALITY REQUIREMENT
43600 S.F. X .34/12=1237 CF
PROVIDED=2678.00 CF

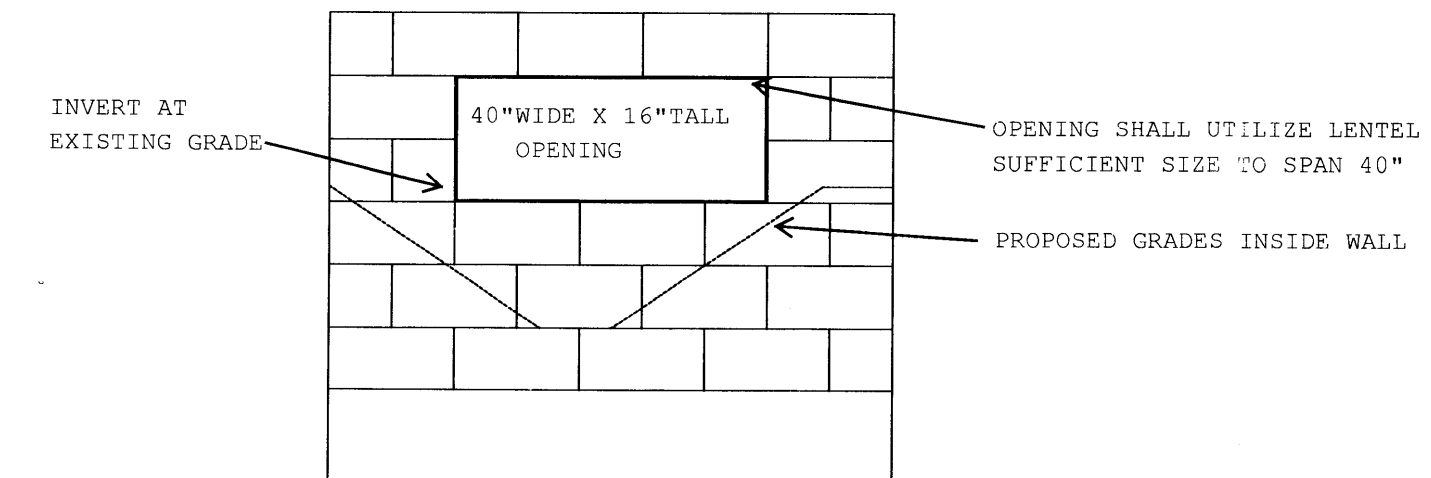
EROSION CONTROL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

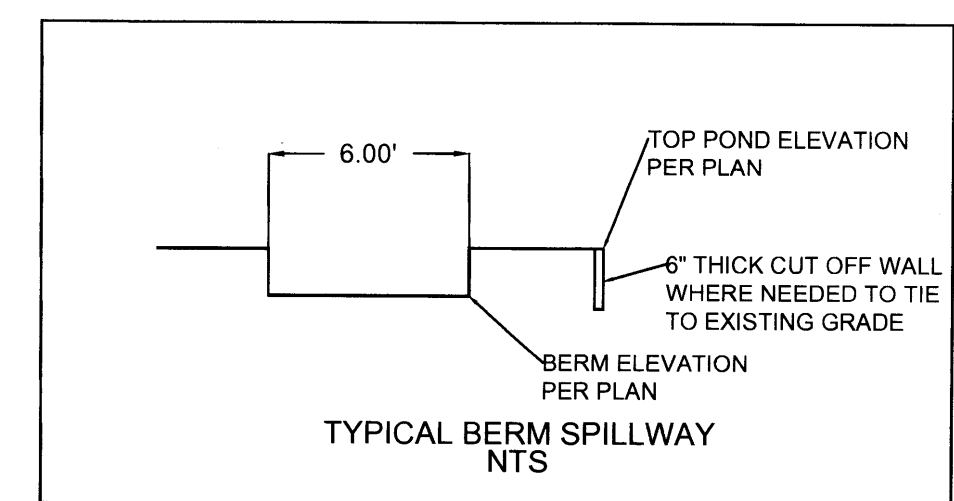
PRIVATE DRAINAGE IMPROVEMNET IN PUBLIC ROW
NOTICE TO CONTRACTORS

- Notice to Contractor
(Special Order 19 ~ "S0-19")
- An excavation permit will be required before beginning any work within City Right-Of-Way.
 - All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
 - Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the location of existing utilities.
 - Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
 - Backfill compaction shall be according to traffic/street use.
 - Maintenance of the facility shall be the responsibility of the owner of the property being served.
 - Work on arterial streets shall be performed on a 24-hour basis.
 - Prior to pouring concrete, contractor shall notify the storm drain inspector, 857-8074, to inspect reinforcement.

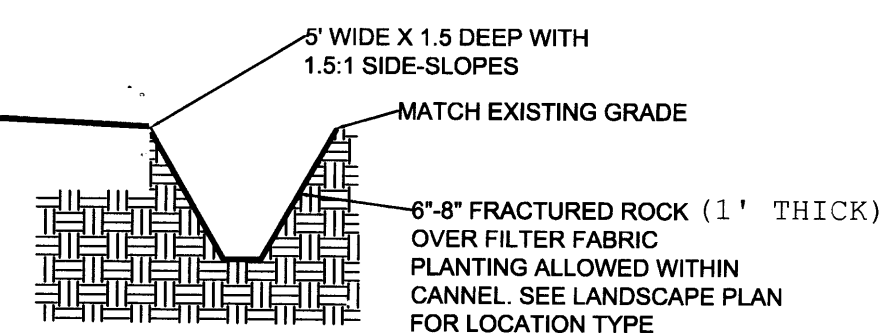
APPROVAL	NAME	DATE
INSPECTOR		



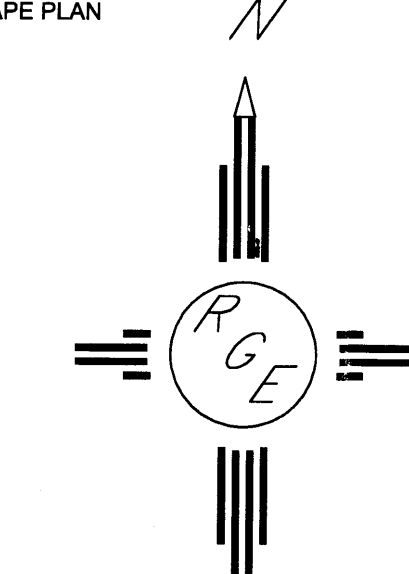
WALL OPENING DETAIL



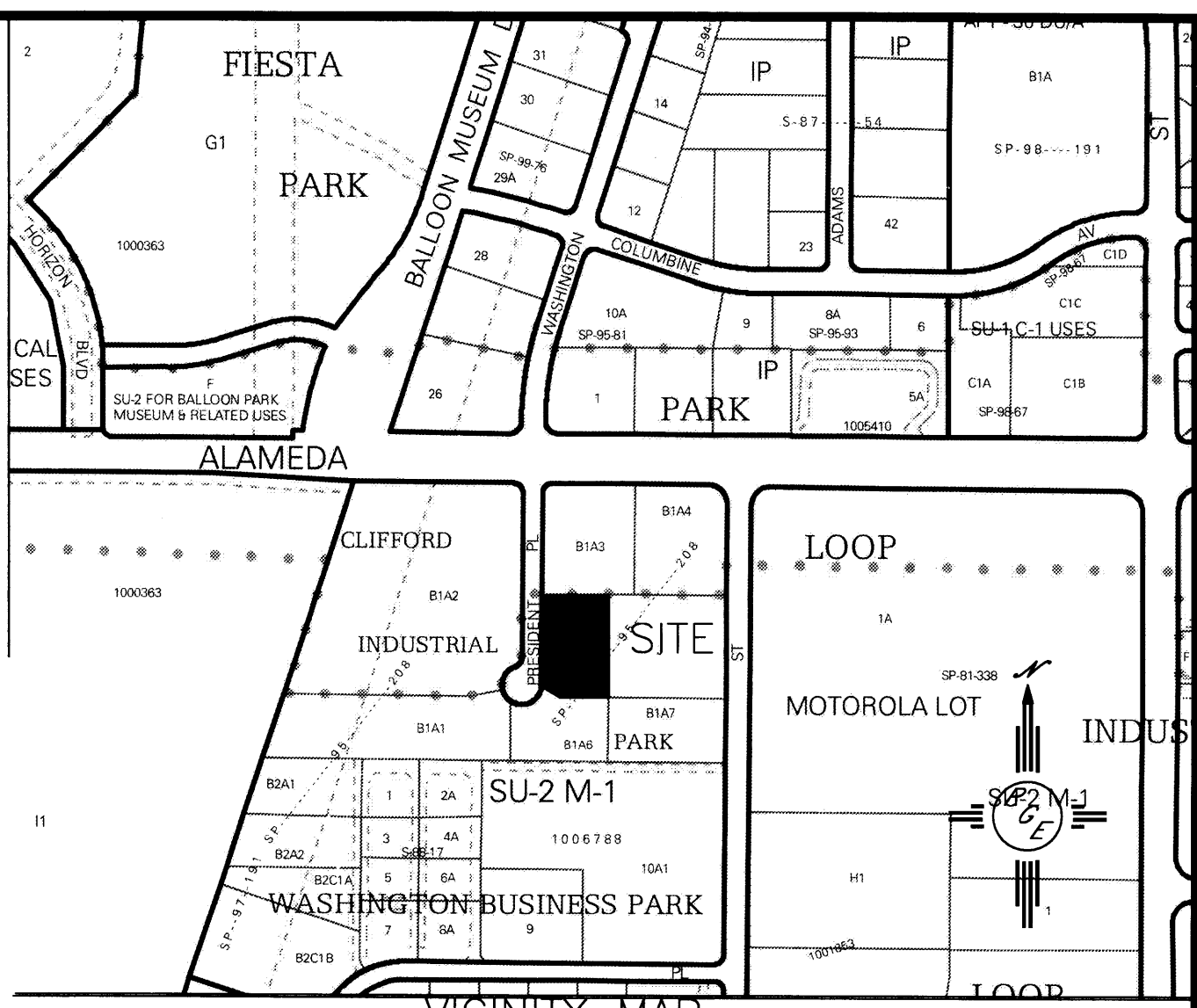
TYPICAL BERM SPILLWAY NTS



SECTION A-A



GRAPHIC SCALE



LEGAL DESCRIPTION:

Tract B-1-A-5, Clifford Industrial Park

NOTES:

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY Christopher J. Dehler, NMLS 7923
- ONSITE CURB SHALL BE 6" UNLESS OTHERWISE NOTED
- ALL POND SHALL BE LINED WITH 6"-8" FRACTURED ROCK. LANDSCAPING SHALL BE INSTALLED WITHIN ROCK.

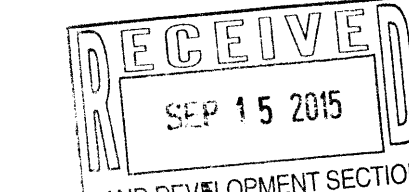
LEGEND

- 5411--- EXISTING CONTOUR
- 5410--- EXISTING INDEX CONTOUR
- 5411--- PROPOSED CONTOUR
- 5410--- PROPOSED INDEX CONTOUR
- DESIGN ELEVATION

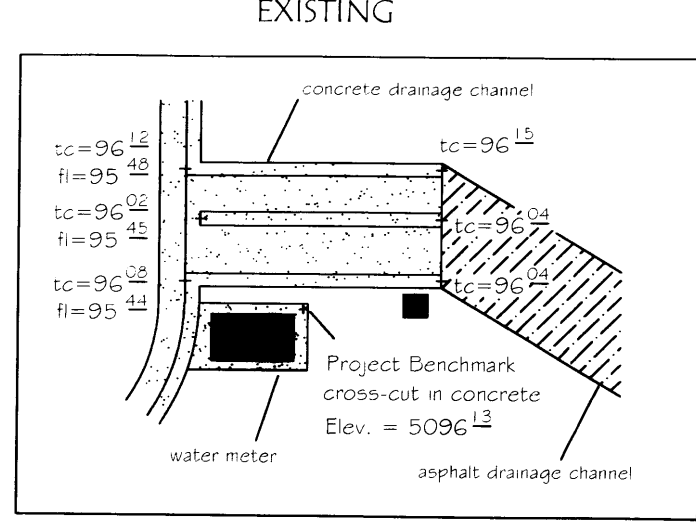
I David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 5/16/13. The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided DAVID ACOSTA NMPS 21082. The certification is submitted in support of a request for PERMANENT CERTIFICATE OF OCCUPANCY. The record information presented heron is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.



9/14/15



ENGINEER'S SEAL DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER	TRACT B-1-A-5 CLIFFORD INDUSTRIAL PARK GRADING AND DRAINAGE PLAN	DRAWN BY JDG DATE 01-12-2015 SHEET # 1 OF 1 JOB #
2/5/15 DAVID SOULE P.E. #14522	Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	



DETAILS

Elevations shown hereon are NAVD88 values. Project Benchmark is a cross-cut in concrete at the southwest corner of Tract B-1-A-5, elevation = 5096.13 feet. Provided by Christopher J. Dehler, NMLS 7923