

Scale: 1" = 10'

General Grading Notes:

- All grading shall be in accordance with the project geotechnical report.
- Cut slopes shall be no steeper than 3 horizontal to 1 vertical.
- Fill slopes shall be no steeper than 3 horizontal to 1 vertical.
- Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the Owner's Special Inspection.
- Areas to receive fill shall be properly prepared and approved by the Owner's Special Inspection prior to placing fill.
- Fills shall be banded into competent material as per specifications and geotechnical report.
- All trench backfill shall be tested and certified by the Owner's Special Inspection.
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- Dust shall be controlled by watering.
- The location and protection of all utilities is the responsibility of the permittee.
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- The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
- The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
- Aggregate base shall be compacted per the geotechnical report prepared for the project.
- The recommendations in the following Geotechnical Engineering Report by Kleinfelder are included in the requirements of grading and site preparation. The report is titled "Geotechnical Engineering Report Proposed Smith's Food & Drug Fuel Center Retail Store #423 5640 4th Street NW Albuquerque, New Mexico".
Project No.: 20152711.001A
Dated: October 29, 2014
- As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
- If Contractor observes evidence of hazardous materials or contaminated soils he shall immediately contact the project engineer to provide notification and obtain direction before proceeding with disturbance of said materials or contaminated soil.
- Contractor will be responsible to phase the construction development so that storm water improvements and storm water facilities including detention or retention improvement facilities are constructed and functional prior to an offsite storm water release and take necessary construction precautions so that no offsite flooding will occur.
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Curb and Gutter Construction Notes:

- Open face gutter shall be constructed where drainage is directed away from curb.
- Open face gutter locations are indicated by shading and notes on the grading plan.
- It is the responsibility of the surveyor to adjust top of asphalt grades to top of curb grades at the time of construction staking.
- Refer to the typical details for a standard and open face curb and gutter for dimensions.
- Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.

DRAINAGE CERTIFICATION WITH SURVEY WORK BY PROFESSIONAL SURVEYOR

DRAINAGE CERTIFICATION
I, David G. Anderson, NMPE 20167, of the firm Anderson Wahlen & Associates, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 02-02-16. The record information edited onto the original design document has been obtained by Russ P. Hugg, NMPS 9750, of the firm Tek, Inc. I further certify that I have reviewed the site improvements and personnel under my direct supervision have observed the project site on 08-24-16 and have determined by visual observation that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This documentation is submitted in support of a request for Final Occupancy Permit. (Describe any exceptions and/or qualifications here in a separate paragraph.)
None
(Describe any deficiencies and/or corrections required here in a separate paragraph.)
None
The record information presented hereon 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.

David G. Anderson, NMPE 20167
(seal)
Date



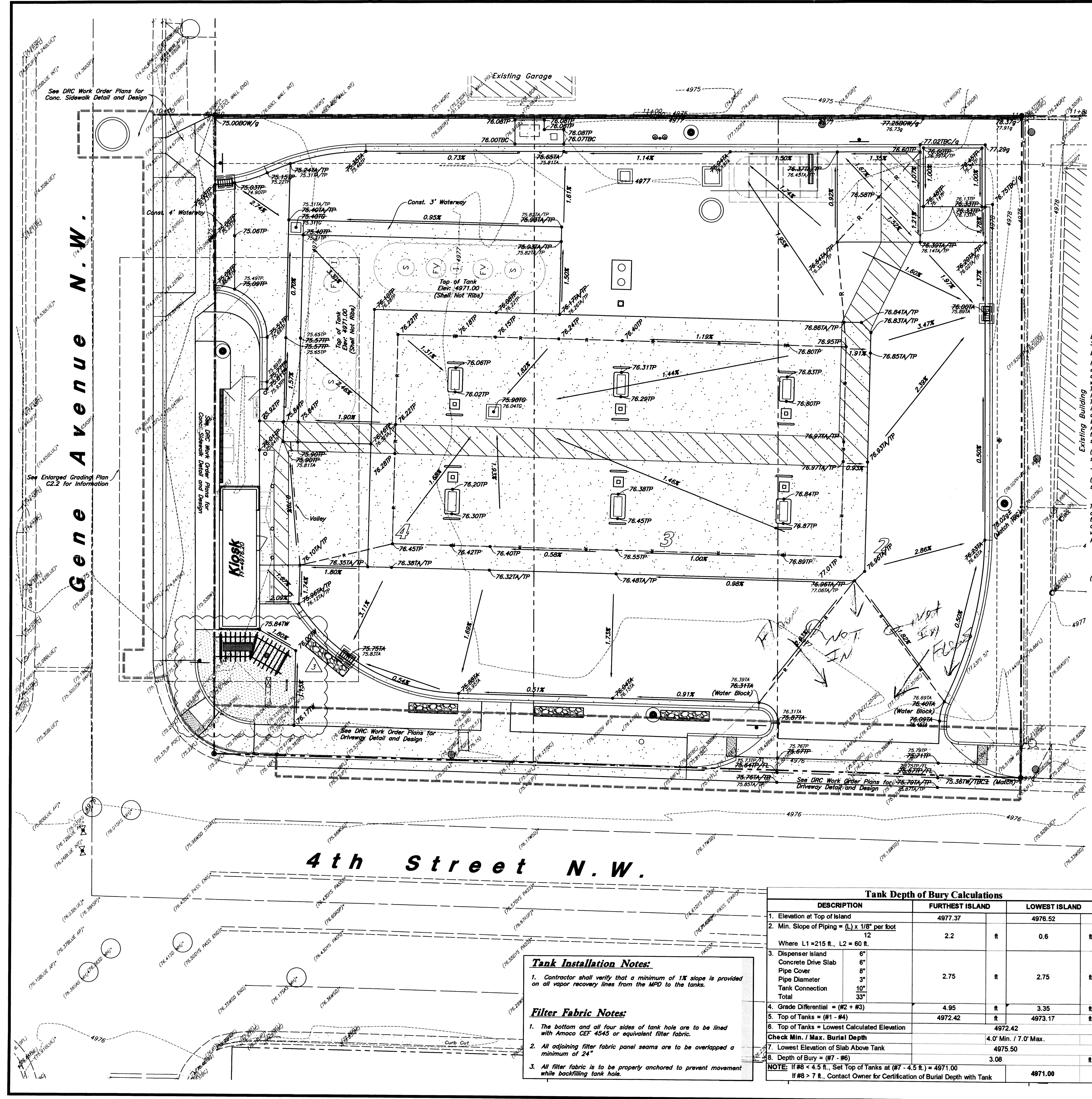
NOTE:
See Plans by Madison Industries for Footing Depth.

New Mexico One Call, Inc.
NMOC
Professional Resources for Damage Prevention
1-800-321-ALERT

Accessible Note:
Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routes must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If Grades on plans do not meet this requirement notify Consultant immediately.
The Client, Contractor and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of the (ICC/ANSI A117.1-Latest Edition) and/or FHWA.

Tank Depth of Bury Calculations			
DESCRIPTION	FURTHEST ISLAND	LOWEST ISLAND	
1. Elevation at Top of Island	4977.37	4976.52	
2. Min. Slope of Piping = (L) x 1/8" per foot			
Where L1 = 215 ft., L2 = 60 ft.	2.2	ft	0.6
3. Dispenser Island			
Concrete Drive Slab	6"		
Pipe Cover	6"		
Pipe Diameter	3"	2.75	ft
Tank Connection	10"		
Total	33"		
4. Grade Differential = (#2 + #3)	4.95	ft	3.35
5. Top of Tanks = (#1 - #4)	4972.42	ft	4973.17
6. Top of Tanks = Lowest Calculated Elevation			4972.42
Check Min. / Max. Burial Depth			4.0' Min. / 7.0' Max.
7. Lowest Elevation of Slab Above Tank			4975.50
8. Depth of Bury = (#7 - #6)			3.08
NOTE: If #8 < 4.5 ft., Set Top of Tanks at (#7 - 4.5 ft.) = 4971.00			
If #8 > 7 ft., Contact Owner for Certification of Burial Depth with Tank			
			4971.00

Tank Installation Notes:
1. Contractor shall verify that a minimum of 1% slope is provided on all vapor recovery lines from the MPD to the tanks.
Filter Fabric Notes:
1. The bottom and all four sides of tank hole are to be lined with Amoco CEF 4545 or equivalent filter fabric.
2. All adjoining filter fabric panel seams are to be overlapped a minimum of 24".
3. All filter fabric is to be properly anchored to prevent movement while backfilling tank hole.



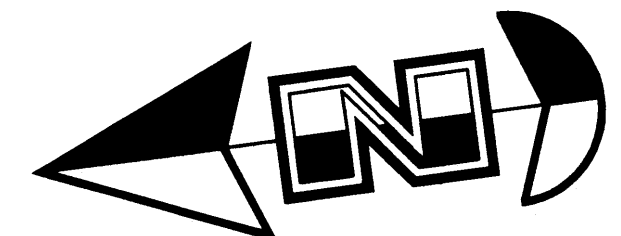
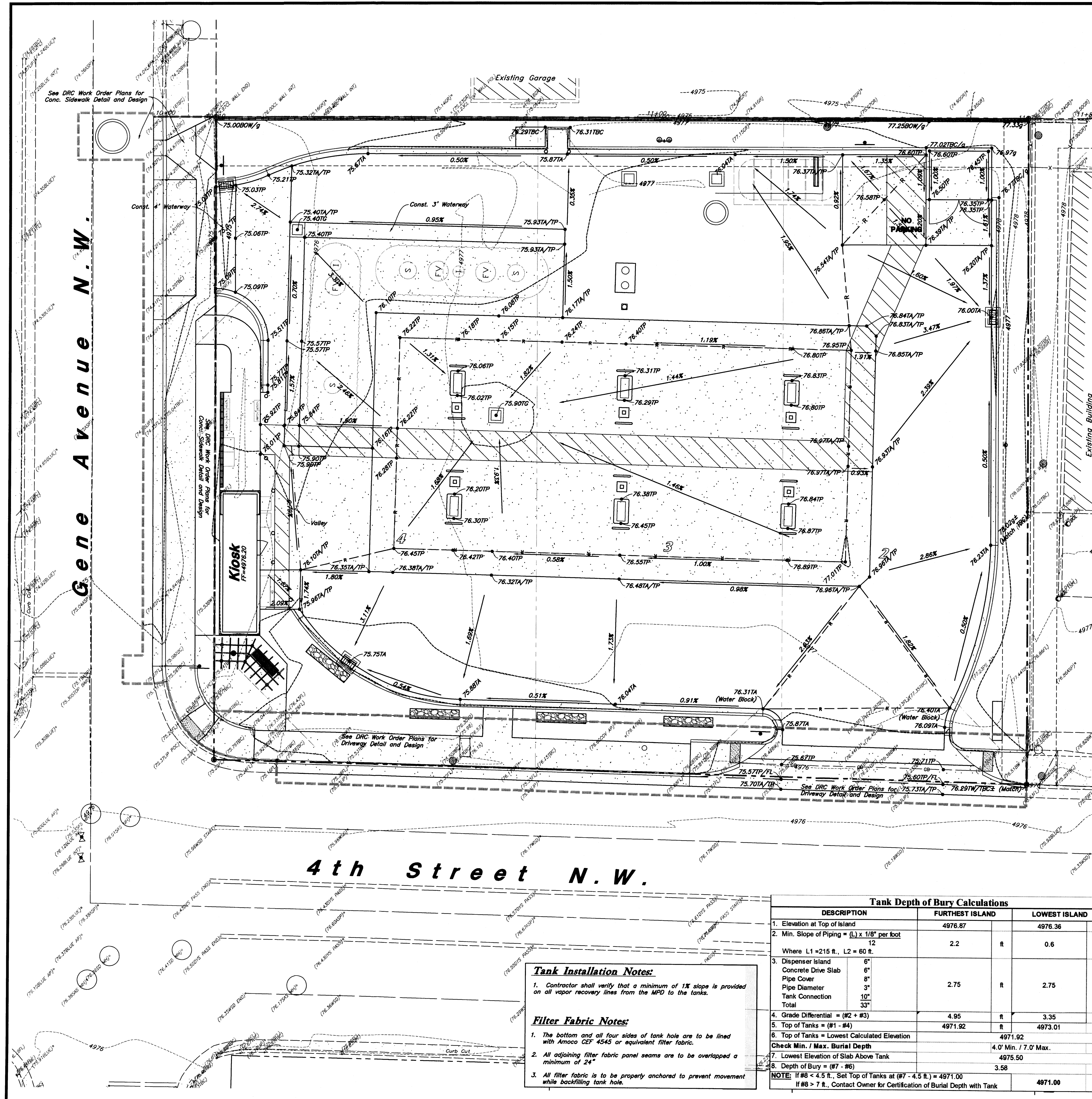
Designed by: KR/AT
Drafted by: AM/NM
Client Name:
Smith's Food & Drug Stores
SMC423-GR-As-Built

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
801 521-8529 - AWAEngineering.net

Grading Plan
Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107

DAVID G. ANDERSON
NEW MEXICO
20167
2-2-2016
REGISTERED PROFESSIONAL ENGINEER

Feb 02, 2016
SHEET NO.
C2.1



Scale: 1" = 10'

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Project No.: 20152711.001A
Dated: October 29, 2014
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New Mexico One Call, Inc.
NMOC
Professional Resources for Damage Prevention
1-800-321-ALERT

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Pipe Diameter	3"		
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Total	33"		
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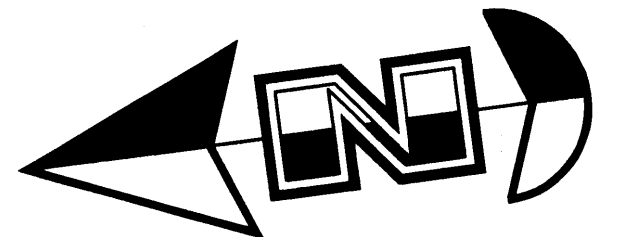
Smith's
FOOD & DRUG STORES
#423
Albuquerque, NM

Anderson Wahlen & Associates
2010 North Reswood Road, Salt Lake City, Utah 84116
801 521-8529 - awengineering.net

Grading Plan
Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107

Feb 02, 2016
SHEET NO.
C2.1

Received 2/1/16



Scale: 1" = 10'

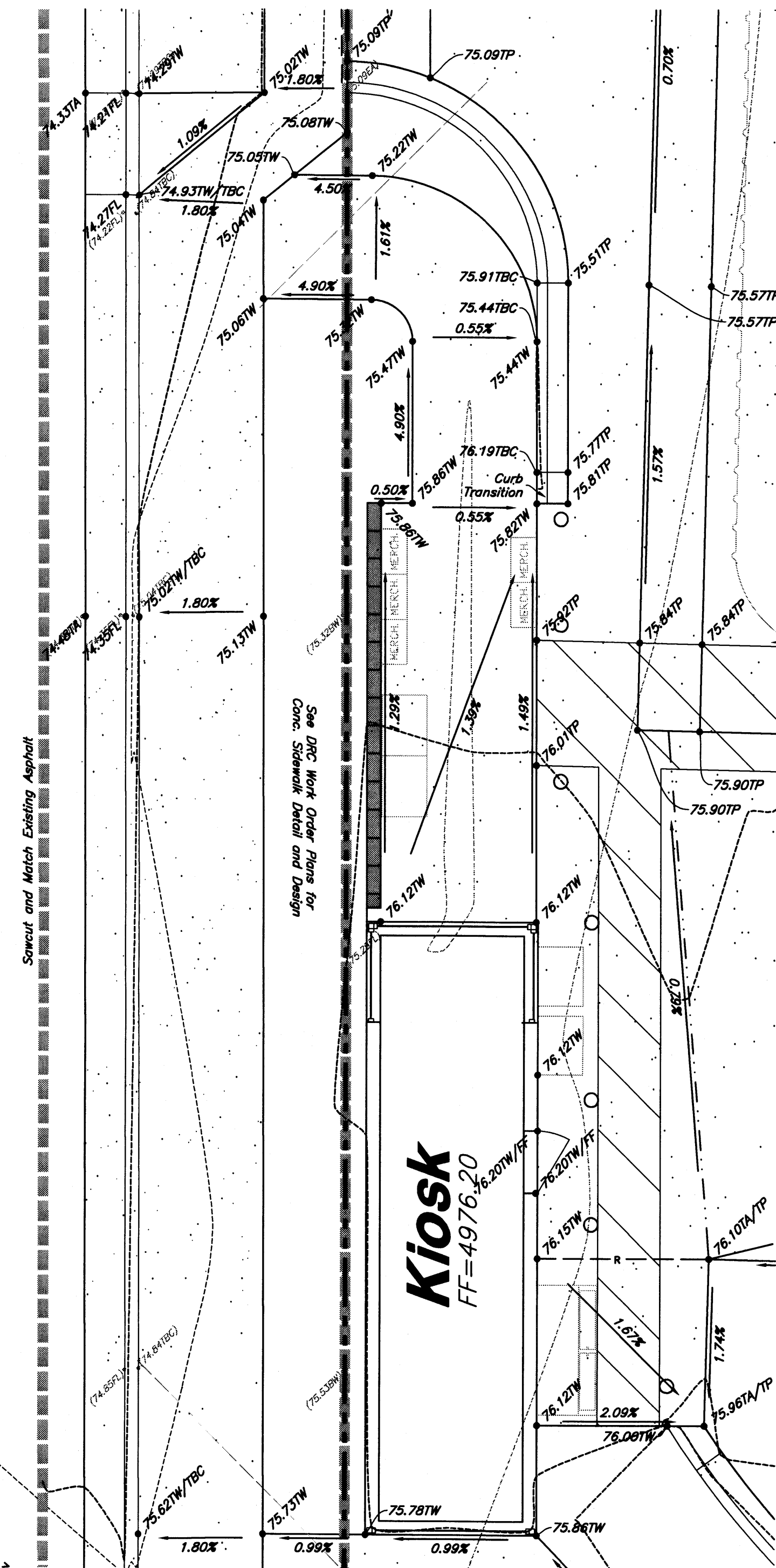


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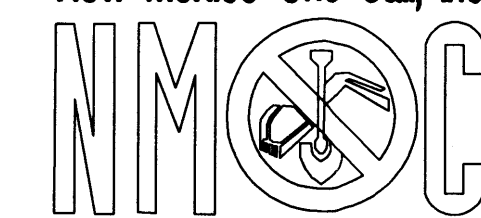
Pedestrian Access Route & Kiosk Merchandise Area

1

Scale: 1" = 5'

NOTE:
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New Mexico One Call, Inc.



Professional Resources for Damage Prevention
1-800-321-ALERT

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Smith's
FOOD & DRUG STORES
#423
Albuquerque, NM

REV	DATE	BY	DESCRIPTION
1			

Designed by: KR/AT
Drafted by: AM/NM
Client Name:
Smith's Food & Drug Stores
SMC423-GR

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
801-221-0229 - am@andersonwahl.com

Enlarged Grading Plan

Smith's #423 Fuel Center

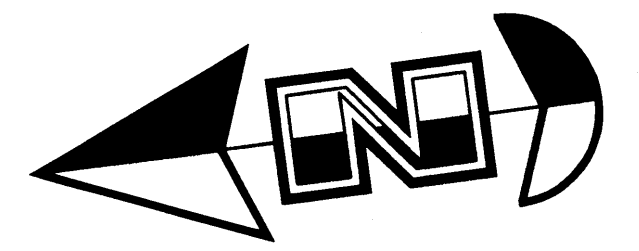
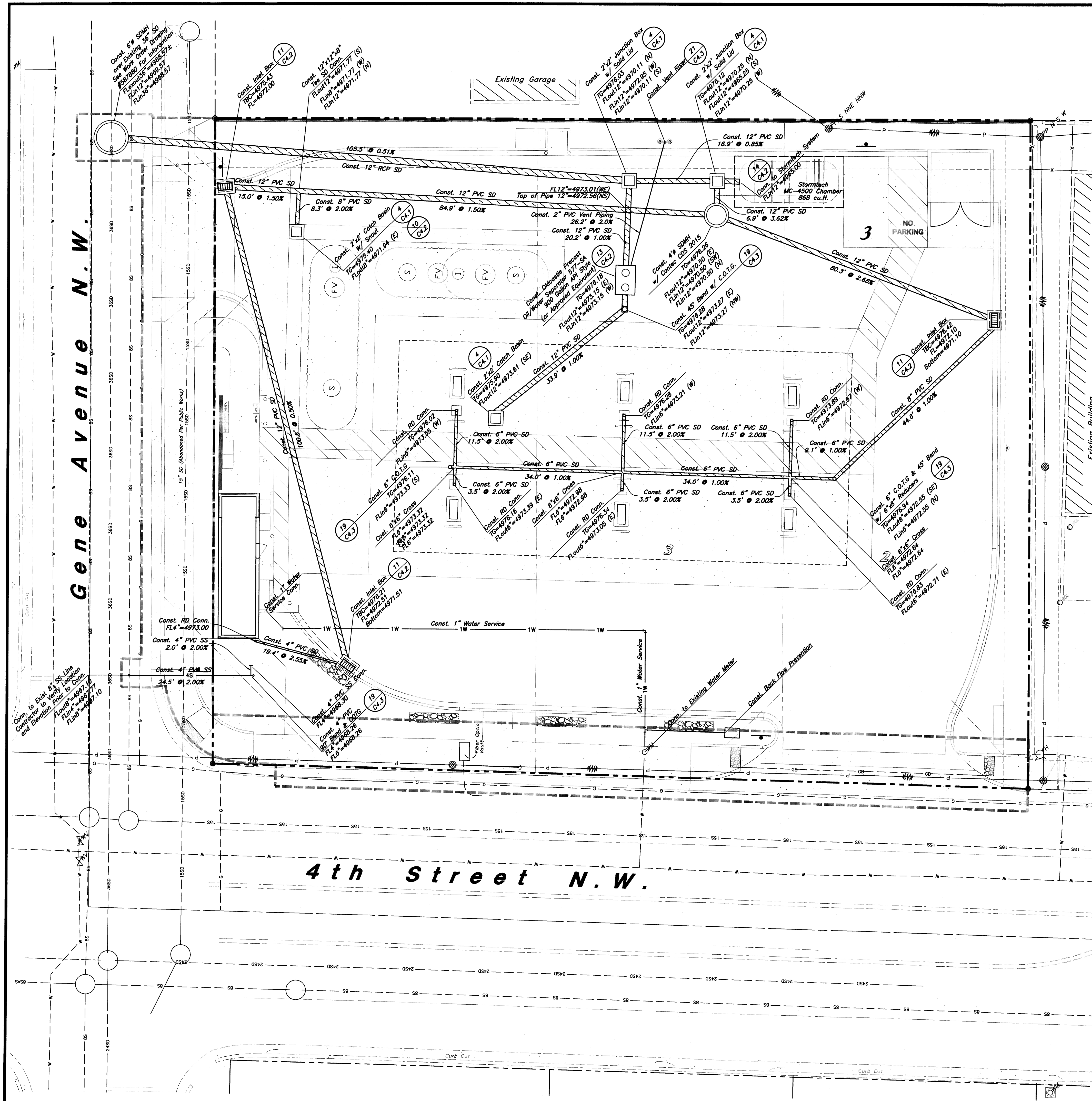
5640 4th Street N.W.
Albuquerque, New Mexico 87107



Feb 02, 2016

SHEET NO.

C2.2



Scale: 1" = 10'



General Utility Notes:

1. All sewer and water facilities shall be constructed per local jurisdiction standards and specifications. Contractor is responsible to obtain standards and specifications.
2. Coordinate all utility connections to building with plumbing plans and building contractor.
3. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connections being made.
4. All catch basin and inlet box grates are to be bicycle proof.
5. Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
6. Gas lines, telephone lines, and cable TV lines are not a part of these plans.
7. Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
8. Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is responsible, at no cost to the owner, to construct any vertical adjustments necessary to clear sewer, storm drain, or other utilities as necessary including valve boxes and hydrant spools to proper grade.
9. Contractor shall install a 12" concrete collar around all manholes, valves, catch basins, cleanouts & any other structures located within the asphalt.

Utility Piping Materials:

All piping to be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

Culinary Service Laterals

1. Pipe material as shown on utility plan view and/or to meet city standards.

Water Main Lines and Fire Lines

1. Pipe material as shown on utility plan view and/or to meet city standards.

Sanitary Sewer Lines

1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35.

Storm Drain Lines

1. 12" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
2. 15" pipes or larger - ADS High Density Polyethylene (HDPE) AASHTO M 294, Types with Smooth Interior or Equal as Approved.

Storm Drain Note:

All Storm Drainage Pipe Lengths and Slopes are from Center of Box to Center of Box.

CAUTION :

The locations and/or elevations of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete.

New Mexico One Call, Inc.
NMOC
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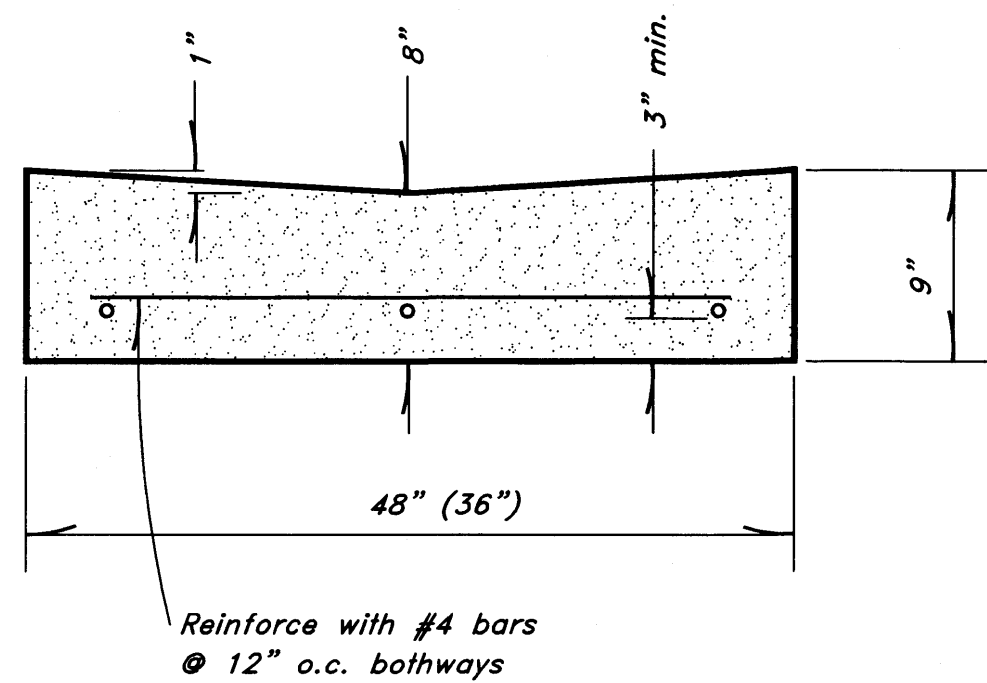
Smith's
FOOD & DRUG STORES
#423
Albuquerque, NM

DESIGNED BY: KR/AT	DATE: 02/02/16
DRAFTED BY: AM/NM	DATE: 02/02/16
CLIENT NAME: Smith's Food & Drug Stores	DATE: 02/02/16
PROJECT: SMC423-UT	DATE: 02/02/16

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Suite 100, Albuquerque, NM 87116
505.261.5039 - andersonwahlen.com

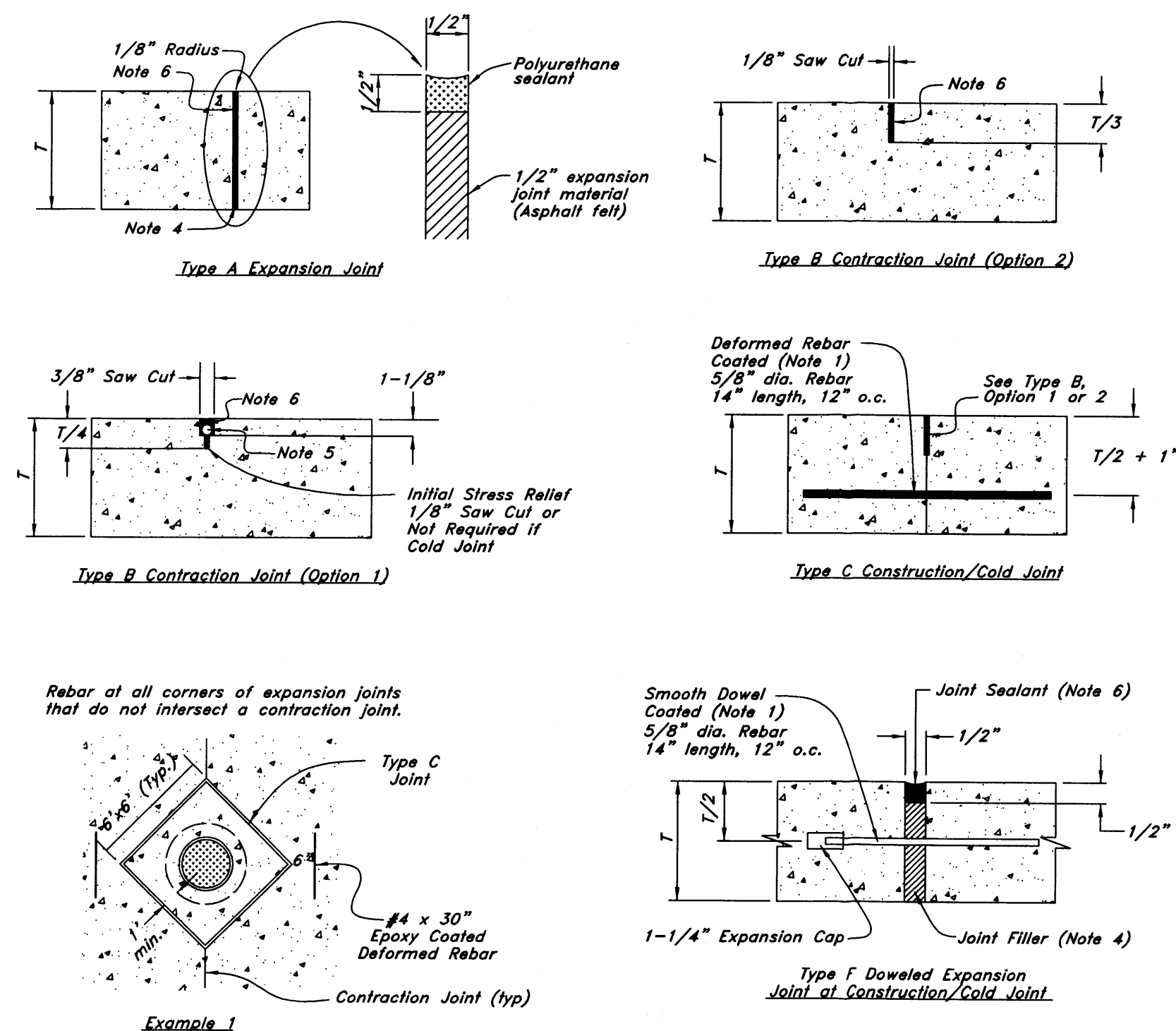
Utility Plan
Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107

Feb 02, 2016
SHEET NO. **C3.1**

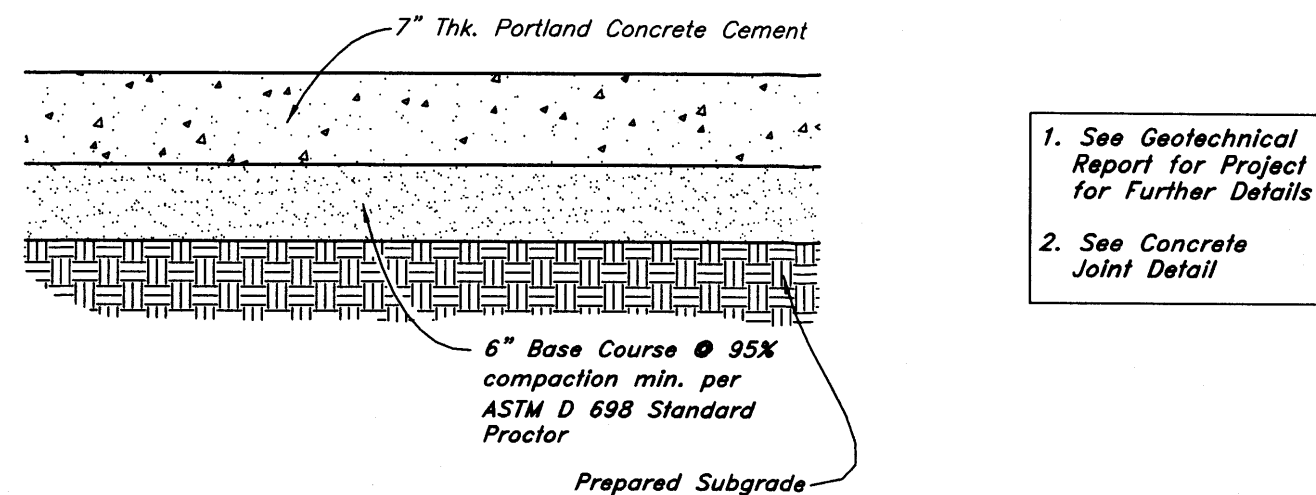


8 Typical Waterway Detail
Not to Scale

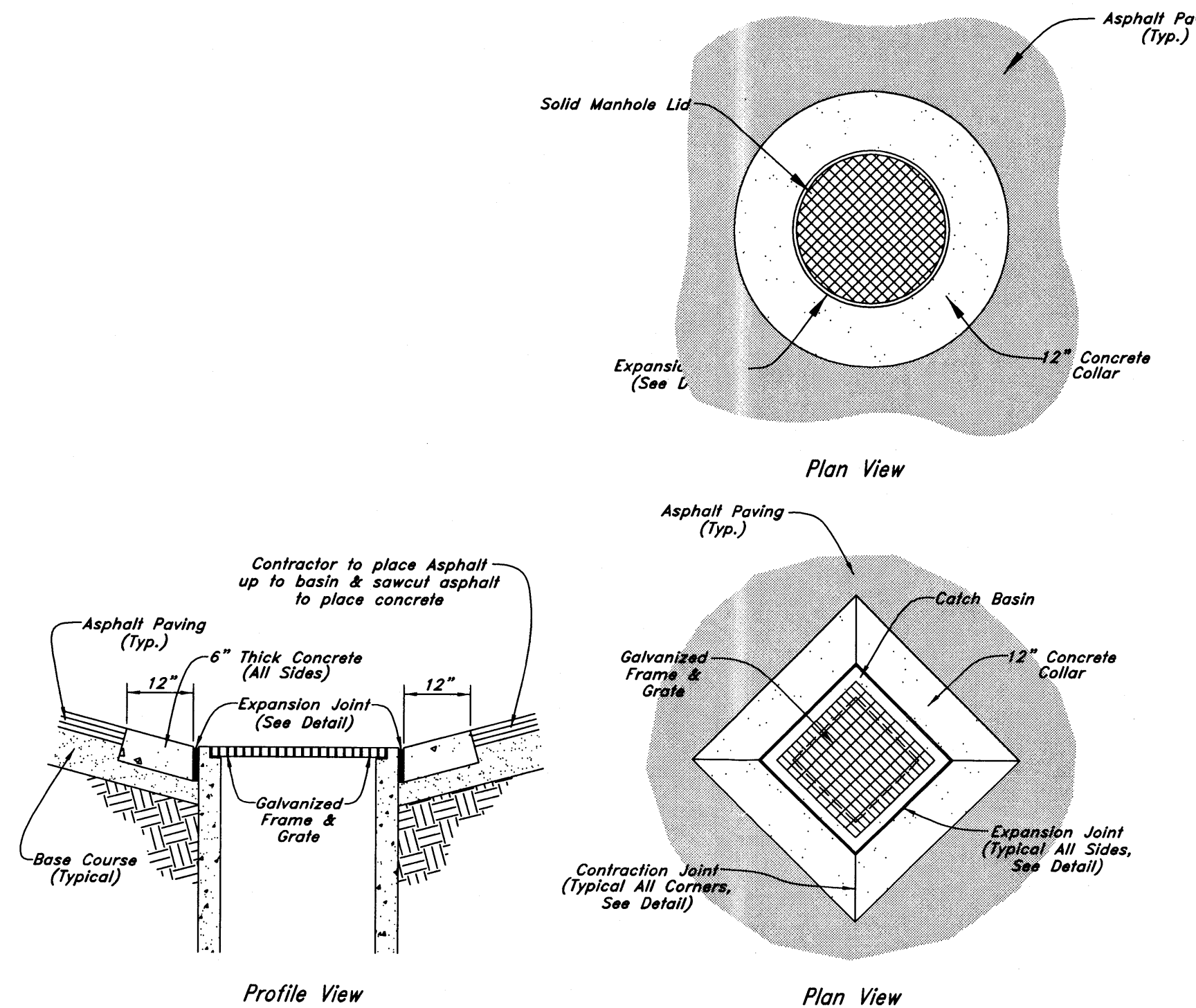
- REINFORCEMENT:** ASTM A 615, grade 60, galvanized or epoxy coated deformed steel rebar or smooth steel dowels with diameter and length as indicated.
 - Space rebar and dowels at 12 to 15 inches on center.
 - Grease dowels to provide movement in expansion joints.
 - Keep tie bars in the vertical center of the concrete slab and perpendicular to the joint during concrete placement.
- SAWING:** Keep at least 3 working power saws on-site when concrete is being placed. Saw crack control joints (contraction joints) before shrinkage cracking takes place. Do not tear or ravel concrete during sawing. In cool weather, the joint sawing may be delayed only for the time required to prevent tearing and raveling the concrete. Cut joints to dimensions recommend by sealant manufacturer and approved by ENGINEER.
- JOINTS:** Lay out joints to aid construction and control random cracking.
 - Joint Spacing shall be 12 feet maximum on center in both directions.
 - Extend transverse contraction joints continuously across the full width of the concrete. Make the joints coincide with curb and gutter joints.
 - Make adjustments in joint locations to meet inlet or manhole locations.
 - Expansion Joints shall be placed where concrete abuts a building wall, sidewalk, curb, gutter or any immovable structure.
- JOINT FILLER:** Bituminous (Asphalt or tar) mastic, ASTM D994. Formed and encased between 2 layers of bituminous saturated felt or 2 layers of glass-fiber felt extending to the bottom of the concrete slab.
- BACKER ROD:** Round Rods. It must be oversized approximately 25 percent to fit tightly into each joint and compatible with hot poured sealant.
- JOINT SEALANT:** Hot applied, Asphalt base type, ASTM D 3405. Remove dirt, oil, and curing compounds from joint reservoir. Seal joints immediately after cleaning.



7 Concrete Joint Detail
Not to Scale



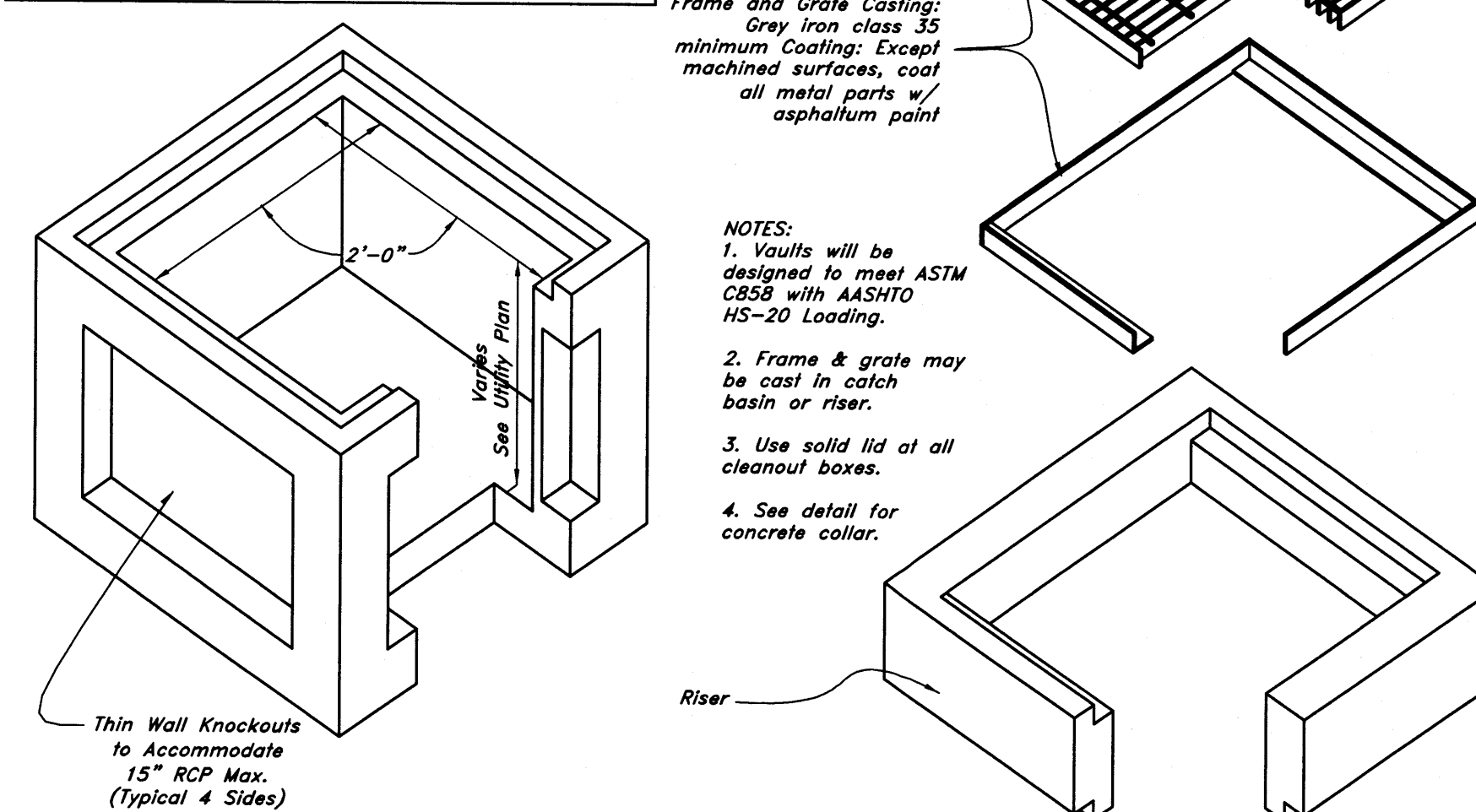
6 Concrete Paving Section
Not to Scale



5 12\"/>

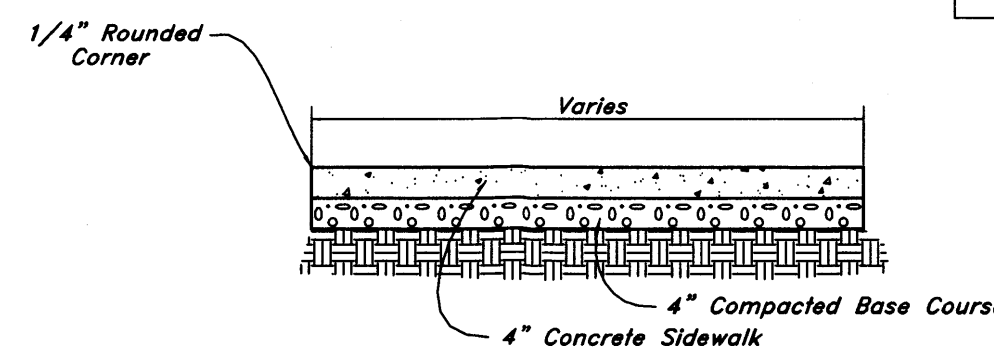
UNDER CANOPY REQUIREMENTS FOR SPECIAL GRATE:

Any Grate under the Canopy shall be Neenah R-1881-B Type O Pedestrian Grate or Equivalent. Also, a Kristar Flo-Gard Plus Catch Basin Insert Filter must be installed.

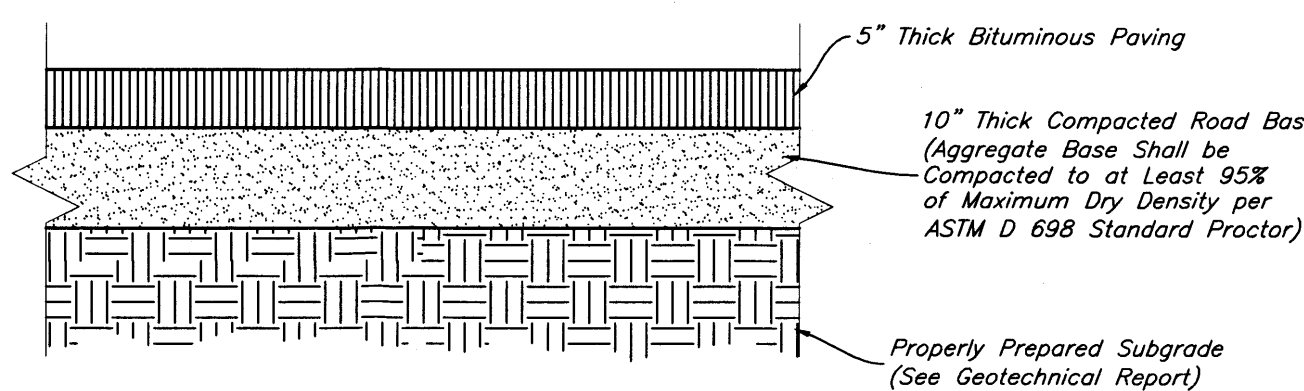


4 Precast 24\"/>

- Contraction Joints**
A. Spacing = 10' o.c.
- Expansion Joints**
A. Make expansion joints full depth, see joint detail
B. Place expansion joint at all cold joints
C. Expansion joints are required at the start or end of curb radius

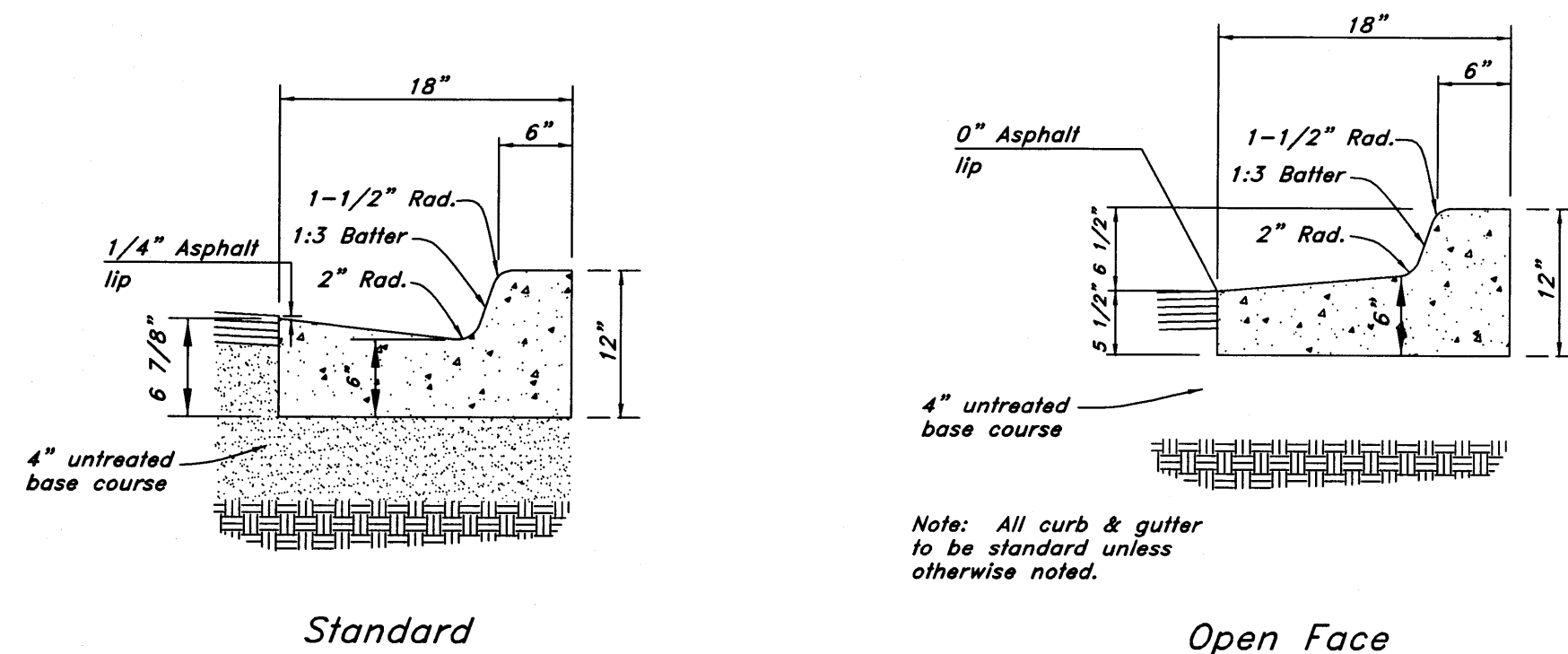


3 Typical Sidewalk Detail
Not to Scale



2 Standard Asphalt Section
Not to Scale

- Contraction Joints**
 - Spacing = 10' o.c., see joint detail
 - 1/8" wide by 2" deep from top of curb at 15'-0" intervals
- Expansion Joints**
 - Make expansion joints full depth, see joint detail
 - Place expansion joint at all cold joints
 - Expansion joints are required at ends of all radii.
 - Required 5'-0" on each side of drainage structures
 - Required at 90'-0" maximum intervals in straight curb and gutter
 - Provide #6 x 18" long smooth steel dowel bars with 1" dia. grease cap through expansion joints (3/4" thick bituminous filler material)
- 2'-6" Long tie bar on 2'-6" centers shall be provided when curb is adjacent to P.C.C. pavement
- Provide (2) #6 x 2'-6" long tie bars to connect existing and new curb and gutter
- Remove forms as early as possible. Brush top and face of curbs to remove all imperfections. Typical of all form work.
- All radii shall be true arcs
- Medium to light broom finish on all exterior concrete



1 18\"/>

New Mexico One Call, Inc.
NMOC
Professional Resources for Damage Prevention
1-800-321-ALERT

Smith's
FOOD & DRUG STORES
1550 South Redwood Road
Salt Lake City, Utah 84104
Telephone (801) 974-1400

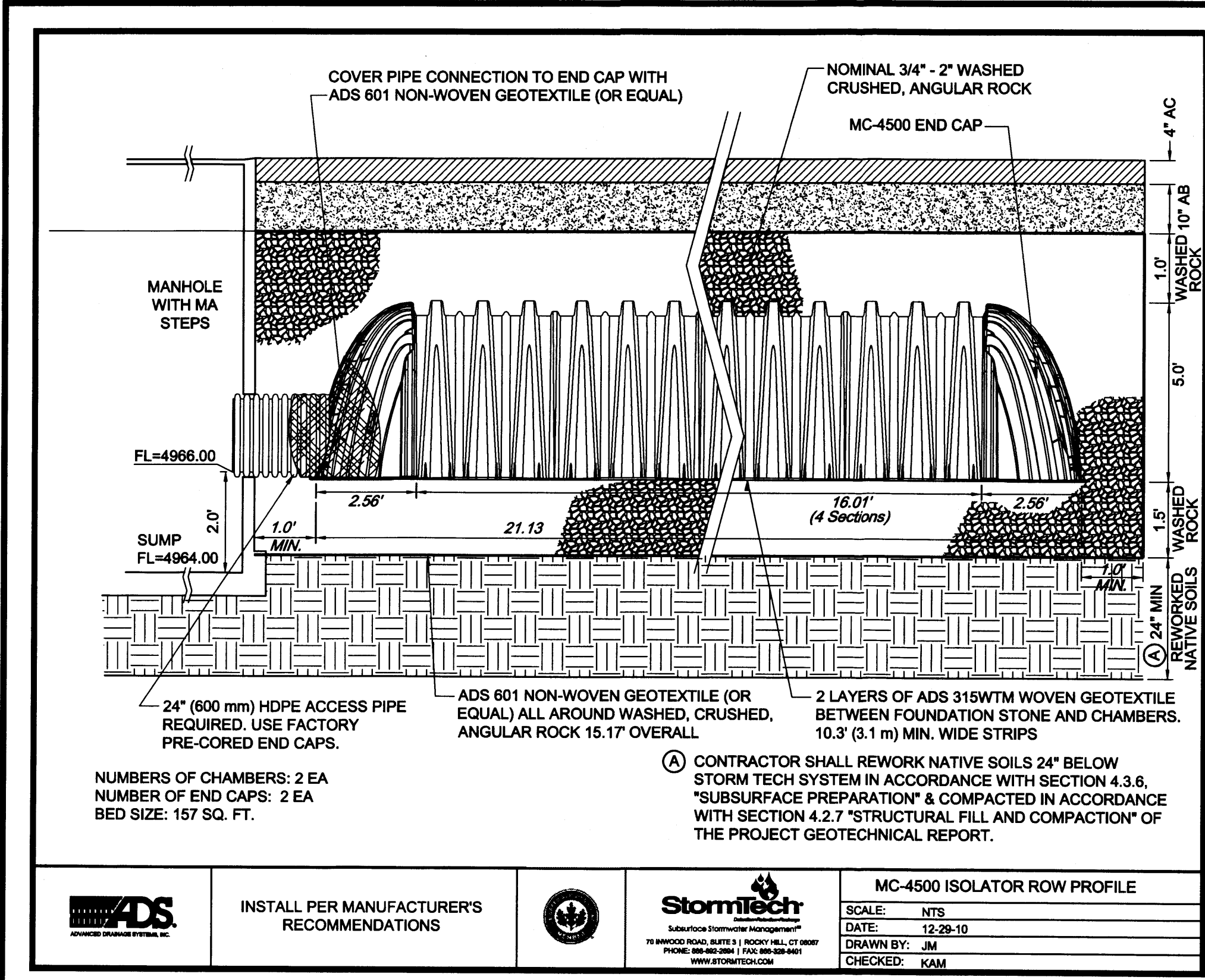
#423
Albuquerque, New Mexico

DESIGNED BY	KR/AT
DRAWN BY	AM/AM
CHECKED BY	AM/AM
DATE	2-2-2016
PROJECT	SMC423-DT
CLIENT	Smith's Food & Drug Stores
LOCATION	5640 4th Street N.W. Albuquerque, New Mexico 87107
SCALE	AS SHOWN
SHEET NO.	C4.1

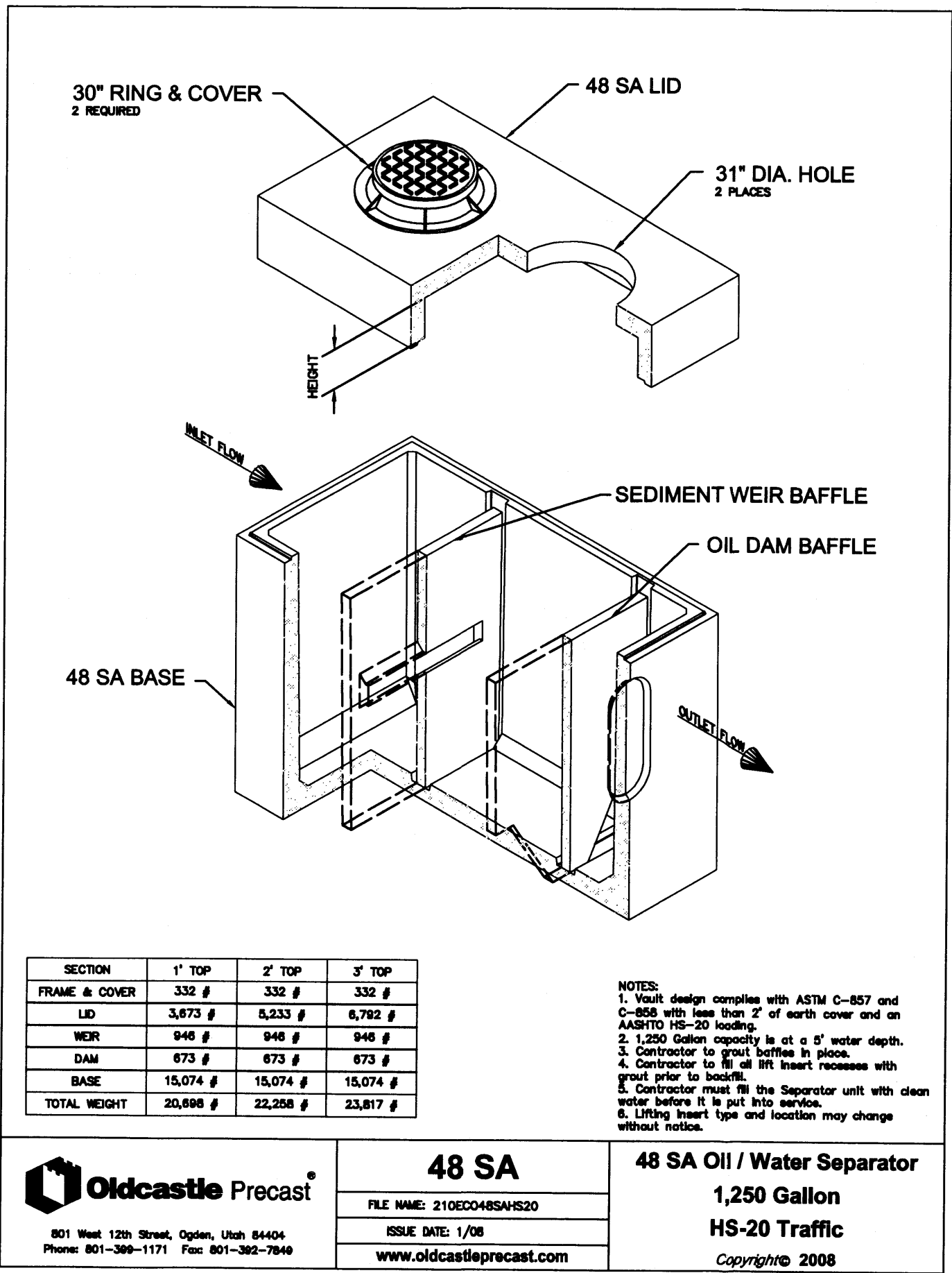
Anderson Wahlen & Associates
2010 North Redwood Road, Salt Lake City, Utah 84116
801-321-8529 - andersonwahlen.com

Details
Smith's #423 Fuel Center

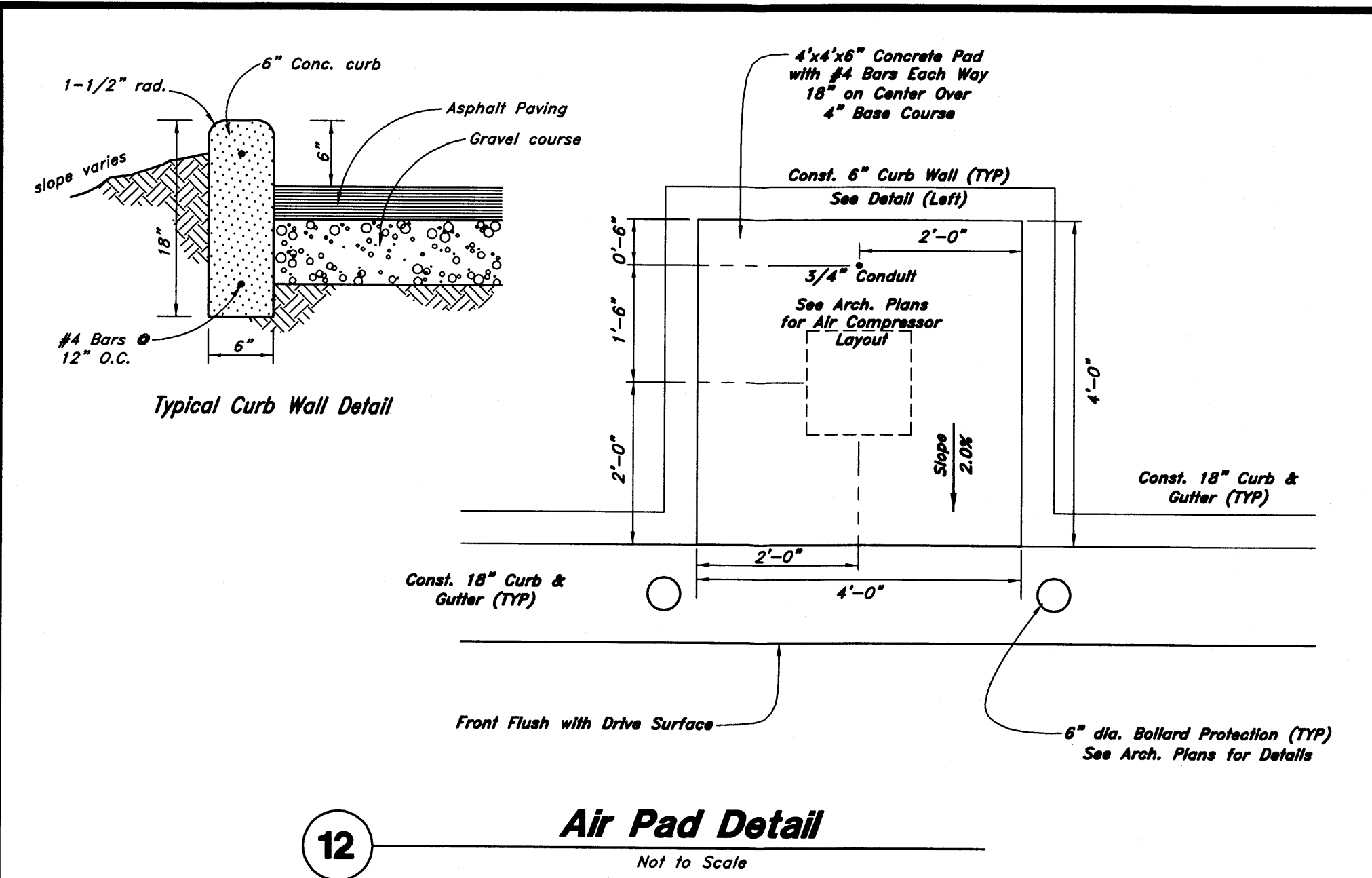
Feb 02, 2016



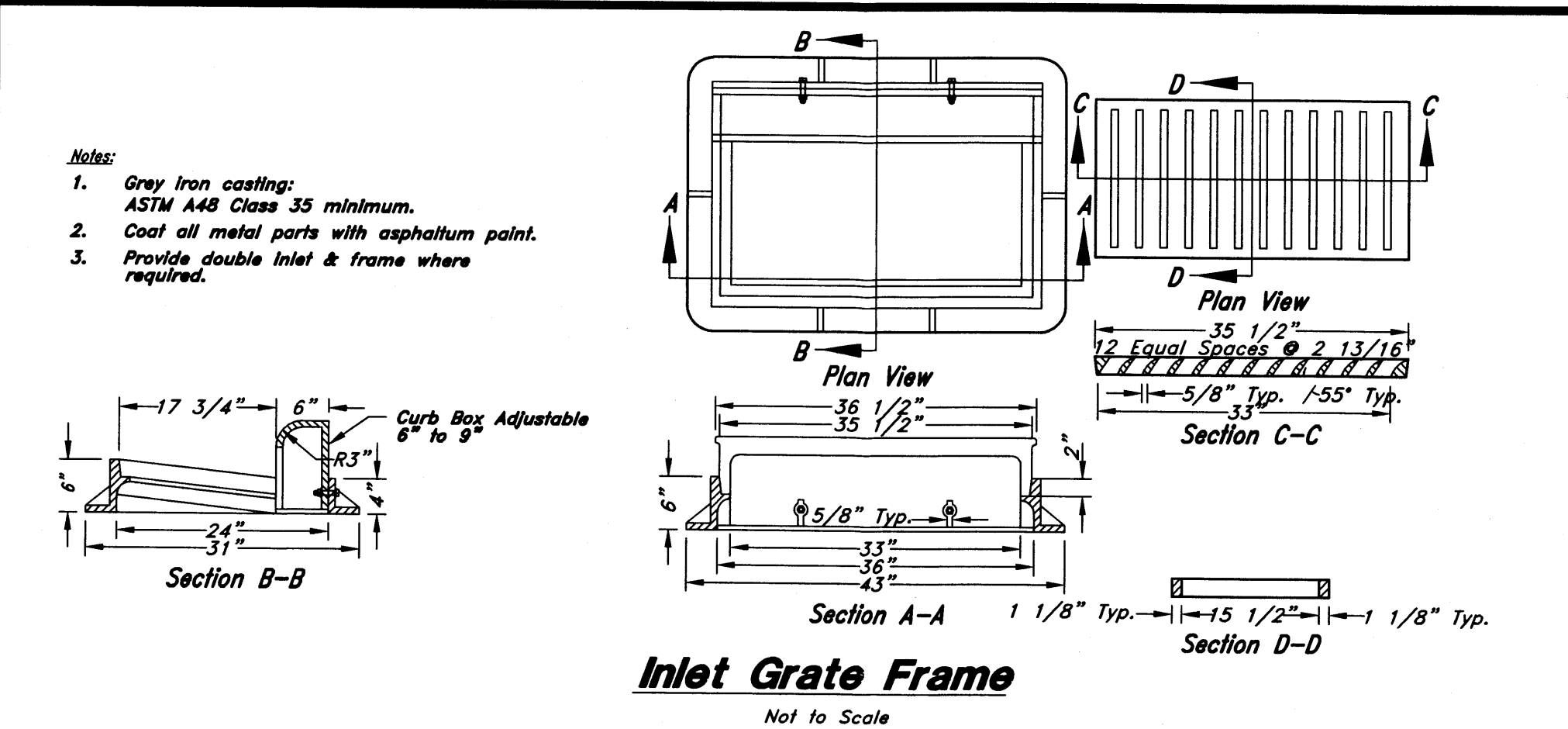
14 StormTech MC-4500 Isolator Row Detail
Not to Scale



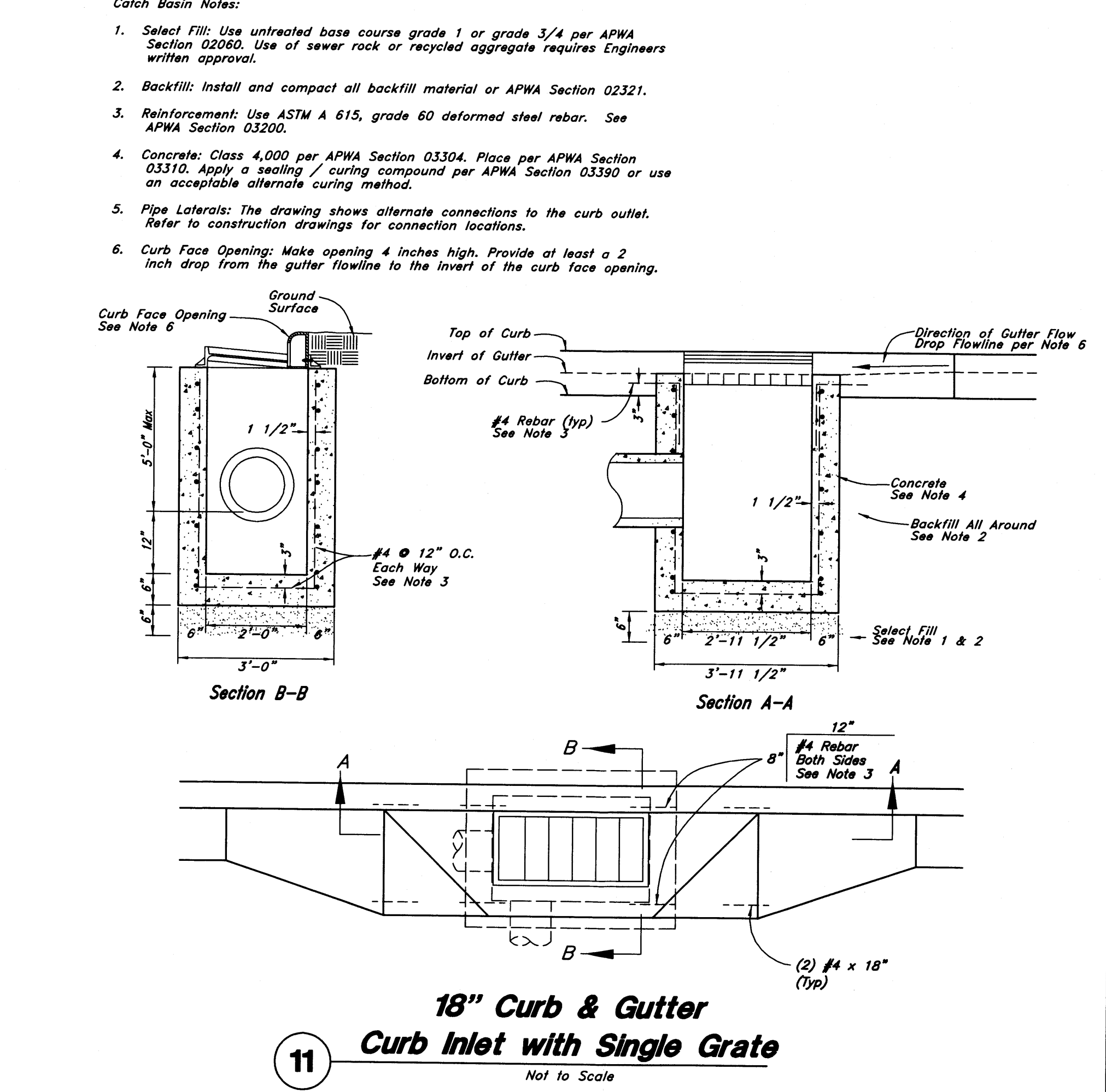
13 Oldcastle Precast Oil / Water Separator 577-SA 900 Gallon - API Style
Not to Scale



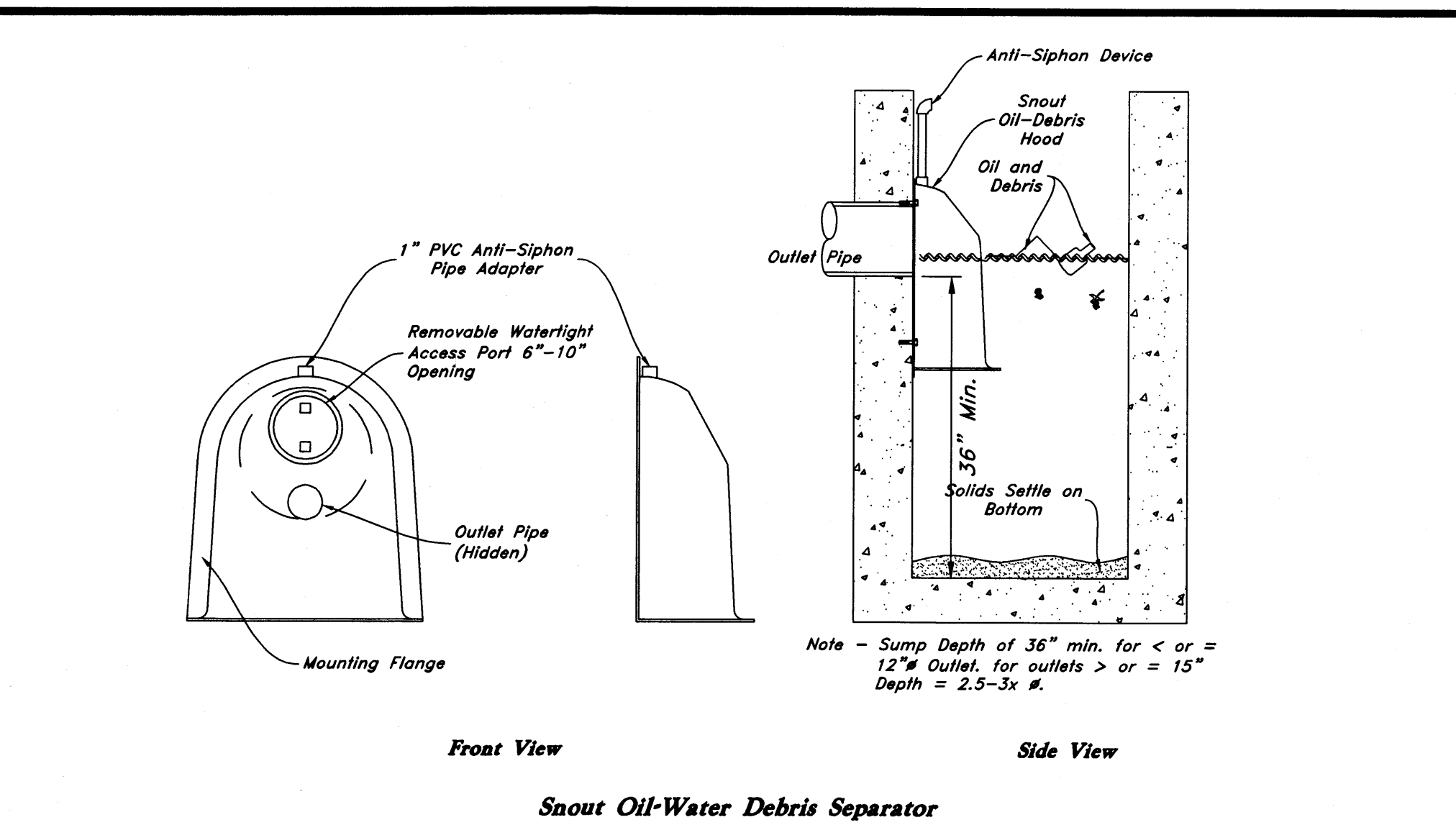
12 Air Pad Detail
Not to Scale



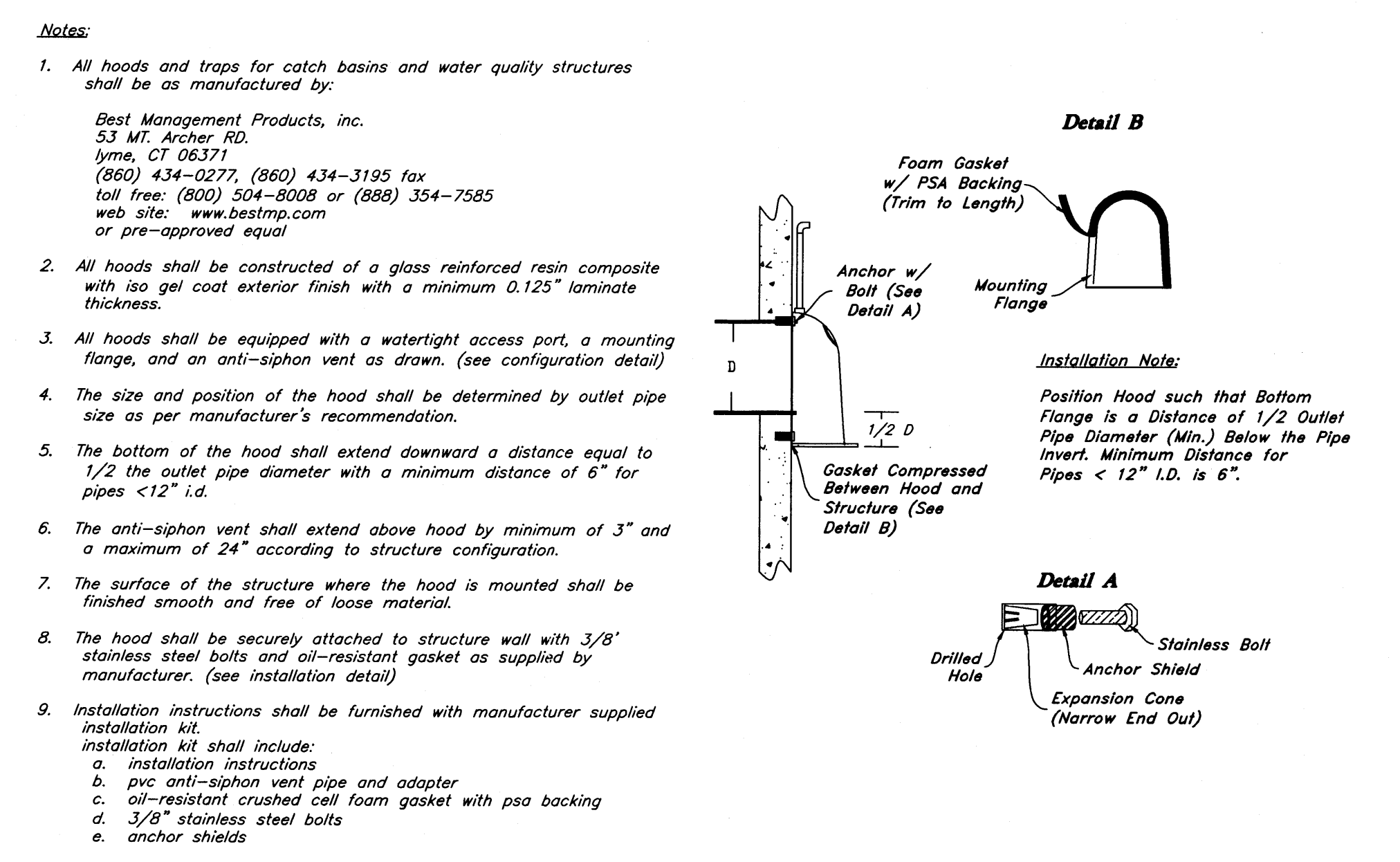
Inlet Grate Frame
Not to Scale



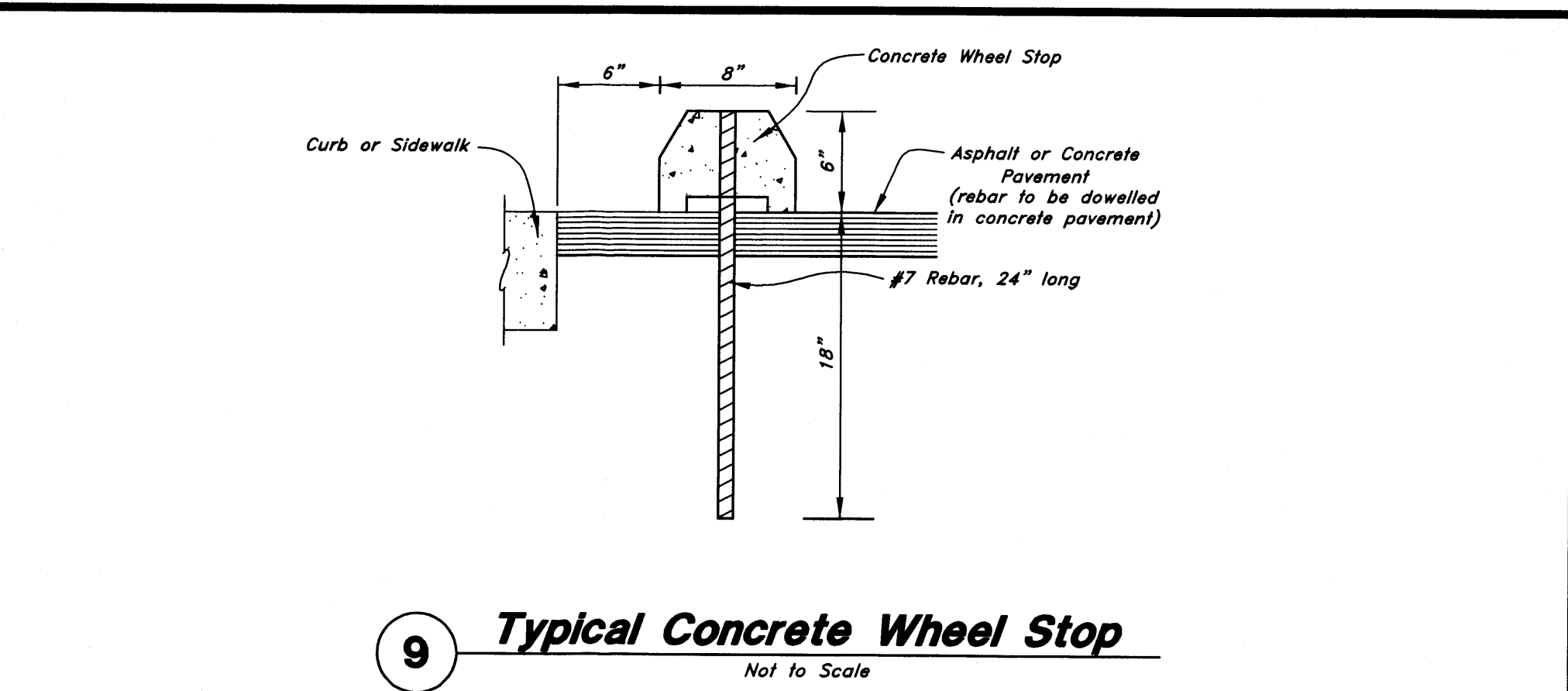
11 18\"/>



Snout Oil-Water Debris Separator



10 Snout & Orifice Plate Detail
Not to Scale



9 Typical Concrete Wheel Stop
Not to Scale

New Mexico One Call, Inc.

NMOC

Professional Resources for Damage Prevention

1-800-321-ALERT

Smith's

FOOD & DRUG STORES

1550 South Redwood Road
Salt Lake City, Utah 84104
Telephone (801) 974-1400

#423

Albuquerque, New Mexico

Anderson Wahlen & Associates

2010 North Redwood Road, Salt Lake City, Utah 84116
801-521-8529 - AWEengineering.net

Smith's #423 Fuel Center

5640 4th Street N.W.
Albuquerque, New Mexico 87107

Feb 02, 2016

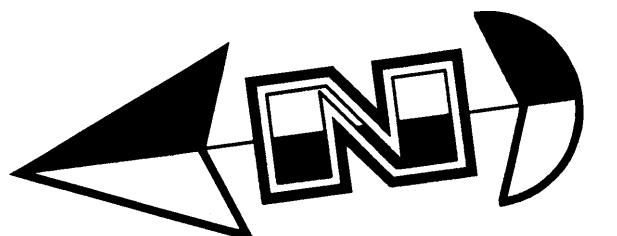
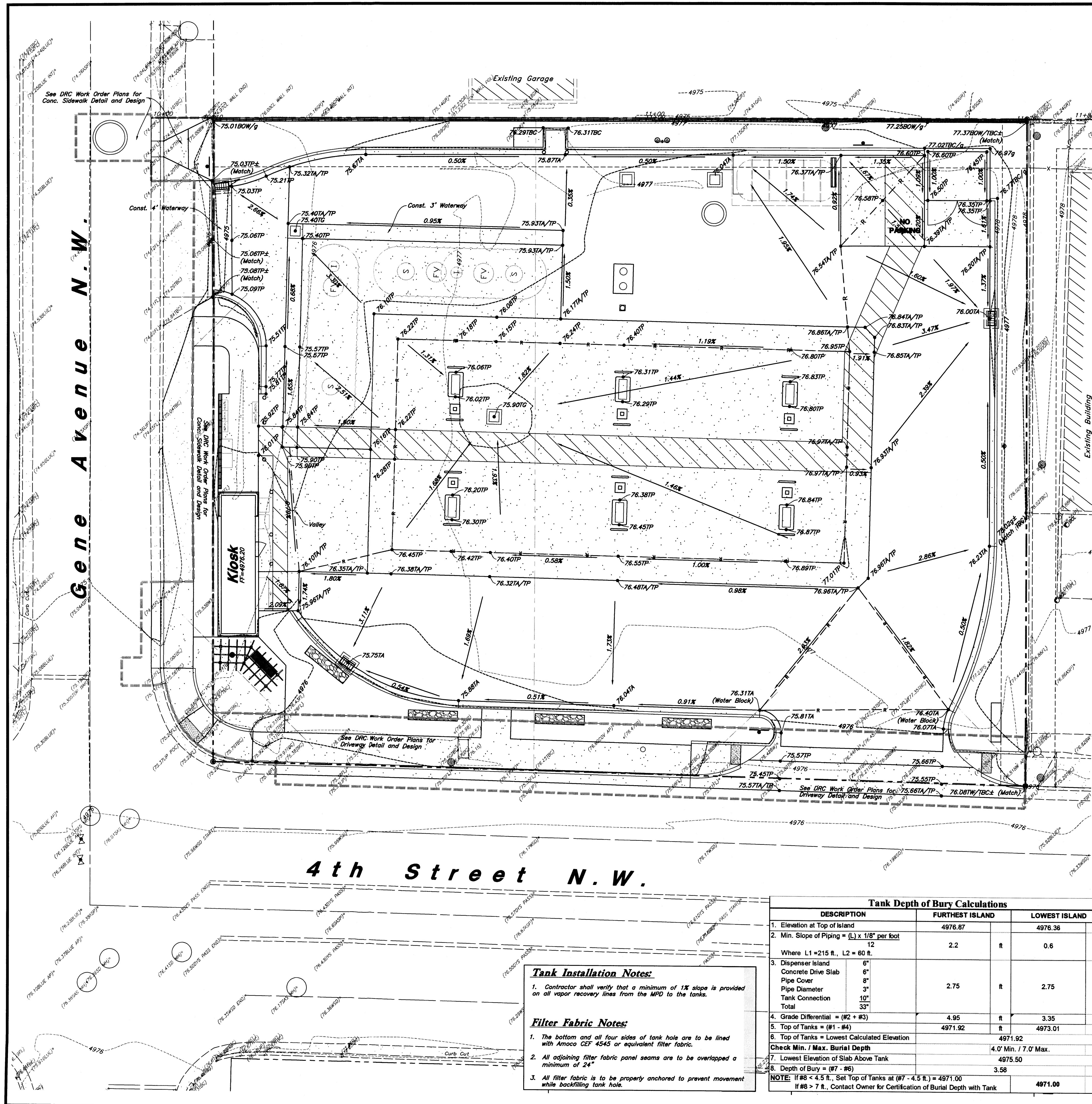
SHEET NO.

C4.2

Professional Engineer

20167

2-2-2016



Scale: 1" = 10'



General Grading Notes:

1. All grading shall be in accordance with the project geotechnical report.
2. Cut slopes shall be no steeper than 3 horizontal to 1 vertical.
3. Fill slopes shall be no steeper than 3 horizontal to 1 vertical.
4. Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the Owner's Special Inspection.
5. Areas to receive fill shall be properly prepared and approved by the Owner's Special Inspection prior to placing fill.
6. Fills shall be benched into competent material as per specifications and geotechnical report.
7. All trench backfill shall be tested and certified by the Owner's Special Inspection.
8. The Owner's Special Inspection shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
9. The final compaction report and certification from the Owner's Special Inspection shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
10. Dust shall be controlled by watering.
11. The location and protection of all utilities is the responsibility of the permittee.
12. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading process.
13. All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the City Engineer.
14. The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
15. The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
16. Aggregate base shall be compacted per the geotechnical report prepared for the project.
17. The recommendations in the following Geotechnical Engineering Report by Kleinfaier are included in the requirements of grading and site preparation. The Report is titled "Geological Engineering Report Proposed Smith's Food & Drug Fuel Center Retail Store #423 5640 4th Street NW Albuquerque, New Mexico".
Project No.: 20152711.001A
Dated: October 29, 2014.
18. As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
19. If Contractor observes evidence of hazardous materials or contaminated soils he shall immediately contact the project engineer to provide notification and obtain direction before proceeding with disturbance of said materials or contaminated soil.
20. Contractor will be responsible to phase the construction development so that storm water improvements and storm water facilities including detention or retention improvement facilities are constructed and functional prior to an off-site storm water release and take necessary construction precautions so that no off-site flooding will occur.
21. Importing fill material from an off-site location without prior written approval from the Owner's Project Manager is strictly prohibited. Identification of off-site borrow locations and material must be coordinated and documented with the SWPPP. The Owner's Special Inspection shall verify the suitability of all off-site material. This includes an analysis to insure that no environmental contamination is present. If any material is brought on site without prior written approval of the Owner's Project Manager, the Contractor will bear all costs associated with removing the material, testing for contamination, monitoring the clean-up operation, disposal in an approved landfill, and certifying that the Owner's site is environmentally clean. If requested, the Owner's Project Manager or the Owner's Special Inspection must be granted unfettered access to any and all borrow sites.

Build Notes

NOTE:
See Plans by Madison Industries for Footing Depth.

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Build Notes Detail Reference

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4. Refer to the typical details for a standard and open face curb and gutter for dimensions.
5. Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.

Tank Installation Notes:

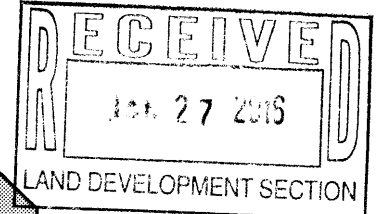
1. Contractor shall verify that a minimum of 1% slope is provided on all vapor recovery lines from the MPD to the tanks.

Filter Fabric Notes:

1. The bottom and all four sides of tank hole are to be lined with Amoco GEF 4545 or equivalent filter fabric.
2. All adjoining filter fabric panel seams are to be overlapped a minimum of 24".
3. All filter fabric is to be properly anchored to prevent movement while backfilling tank hole.

Tank Depth of Bury Calculations			
DESCRIPTION	FURTHEST ISLAND	LOWEST ISLAND	
1. Elevation at Top of Island	4976.87	4976.36	
2. Min. Slope of Piping = (L1 x 1/8" per foot			
Where L1 = 215 ft., L2 = 60 ft.	2.2	0.6	ft
3. Dispenser Island			
Concrete Drive Slab			
Pipe Cover			
Pipe Diameter	2.75	2.75	ft
Tank Connection			
Total			
4. Grade Differential = (#2 + #3)	4.95	3.35	ft
5. Top of Tanks = (#1 - #4)	4971.92	4973.01	ft
6. Top of Tanks = Lowest Calculated Elevation		4971.92	
Check Min. / Max. Burial Depth		4.0' Min. / 7.0' Max.	
7. Lowest Elevation of Slab Above Tank		4975.50	
8. Depth of Bury = (#7 - #6)		3.58	ft
NOTE: If #8 < 4.5 ft., Set Top of Tanks at (#7 - 4.5 ft.) = 4971.00			
If #8 > 7 ft., Contact Owner for Certification of Burial Depth with Tank			4971.00

Accessible Note:
Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routes must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If Grades on plans do not meet this requirement notify Consultant immediately.
The Client, Contractor and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of the (ICC/ANSI) A117.1-Latest Edition and/or FHWA.

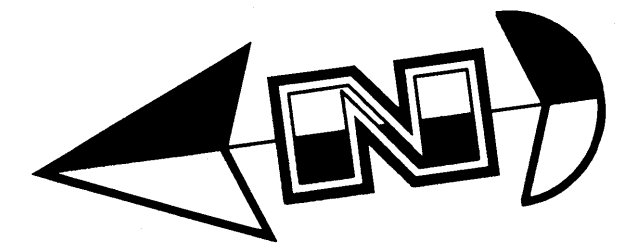


Smith's
FOOD & DRUG STORES
#423
Albuquerque, NM

Anderson Wahlen & Associates
2010 North Redwood Road, Suite 100, Lake City, Utah 84116
BO1 521-8529 - awhengineering.net

Grading Plan
Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107

26 Jan, 2016
SHEET NO.
C2.1



Scale: 1" = 10'

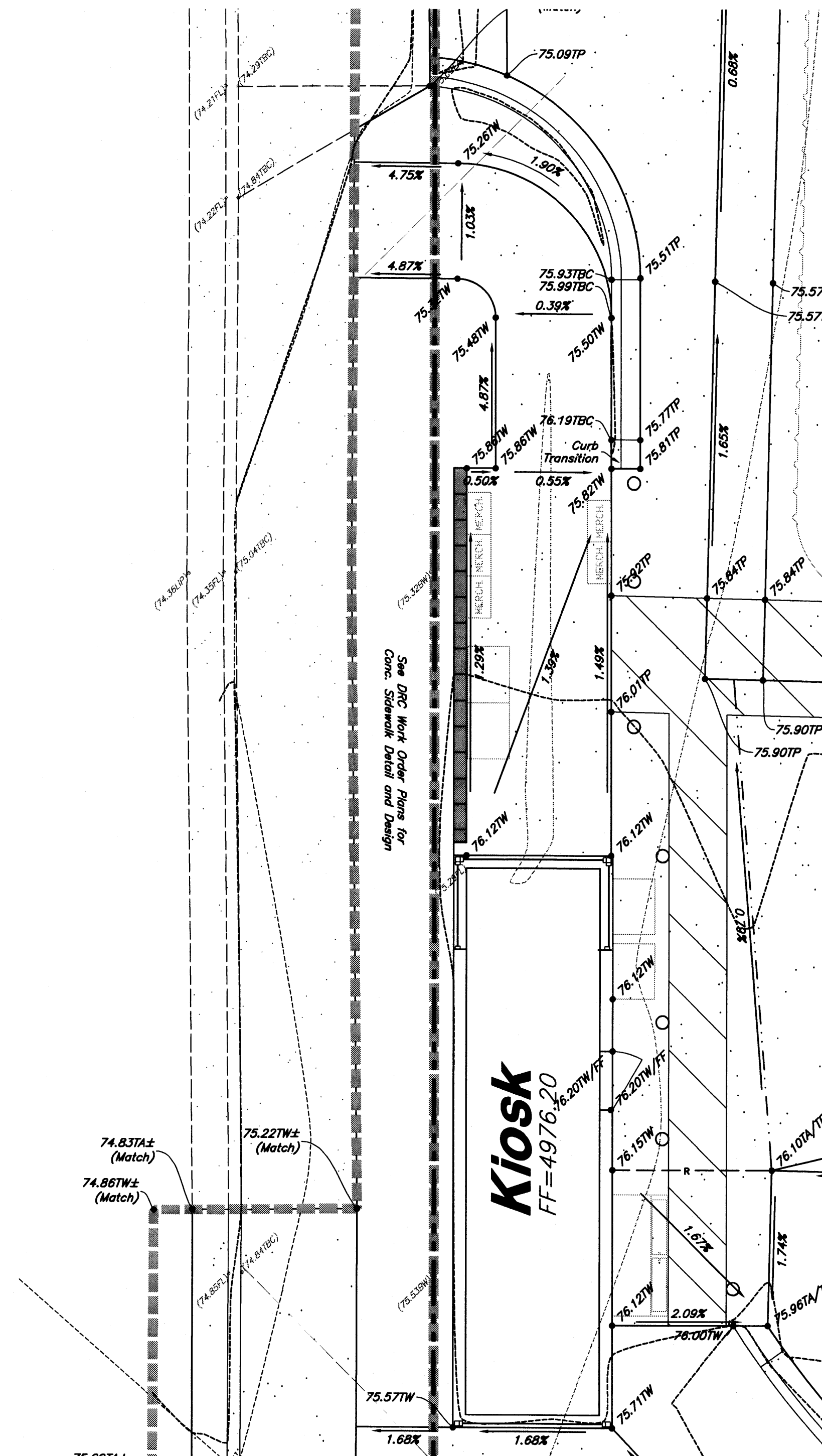


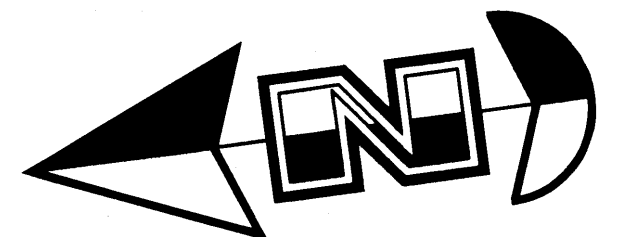
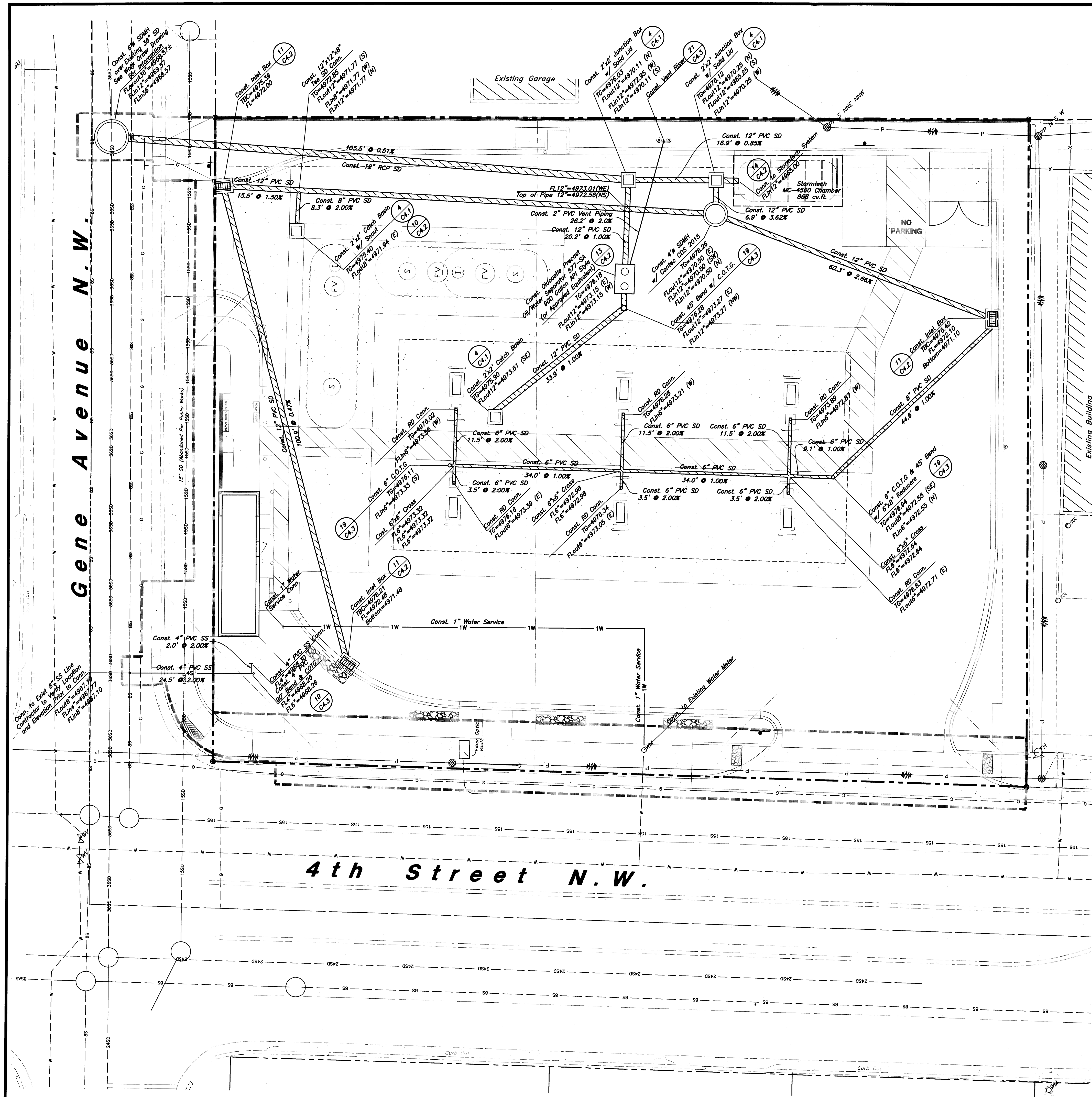
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- The final compaction report and certification from the Owner's Special Inspection shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
- Dust shall be controlled by watering.
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Project No.: 20152711.001A
Dated: October 29, 2014
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- Refer to the typical details for a standard and open face curb and gutter for dimensions.
- Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.





Scale: 1" = 10'



General Utility Notes:

1. All sewer and water facilities shall be constructed per local jurisdiction standards and specifications. Contractor is responsible to obtain standards and specifications.
2. Coordinate all utility connections to building with plumbing plans and building contractor.
3. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connections being made.
4. All catch basin and inlet box grates are to be bicycle proof.
5. Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
6. Gas lines, telephone lines, and cable TV lines are not a part of these plans.
7. Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
8. Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is responsible, at no cost to the owner, to construct any vertical adjustments necessary to clear sewer, storm drain, or other utilities as necessary including valve boxes and hydrant spools to proper grade.
9. Contractor shall install a 12" concrete collar around all manholes, valves, catch basins, cleanouts & any other structures located within the asphalt.

Utility Piping Materials:

All piping to be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

Culinary Service Laterals

1. Pipe material as shown on utility plan view and/or to meet city standards.

Water Main Lines and Fire Lines

1. Pipe material as shown on utility plan view and/or to meet city standards.

Sanitary Sewer Lines

1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35

Storm Drain Lines

1. 12" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
2. 15" pipes or larger - ADS High Density Polyethylene (HDPE) AASHTO M 294, Types with Smooth Interior or Equal as Approved.

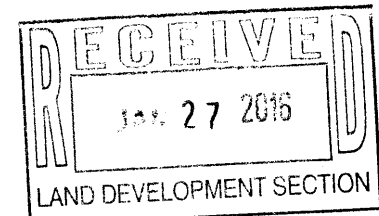
Storm Drain Note:

All Storm Drainage Pipe Lengths and Slopes are from Center of Box to Center of Box.

CAUTION:

The locations and/or elevations of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete.

New Mexico One Call, Inc.



Smith's
FOOD & DRUG STORES
#423
Albuquerque, NM

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
801 521-8529 - AWahlen@engr.com

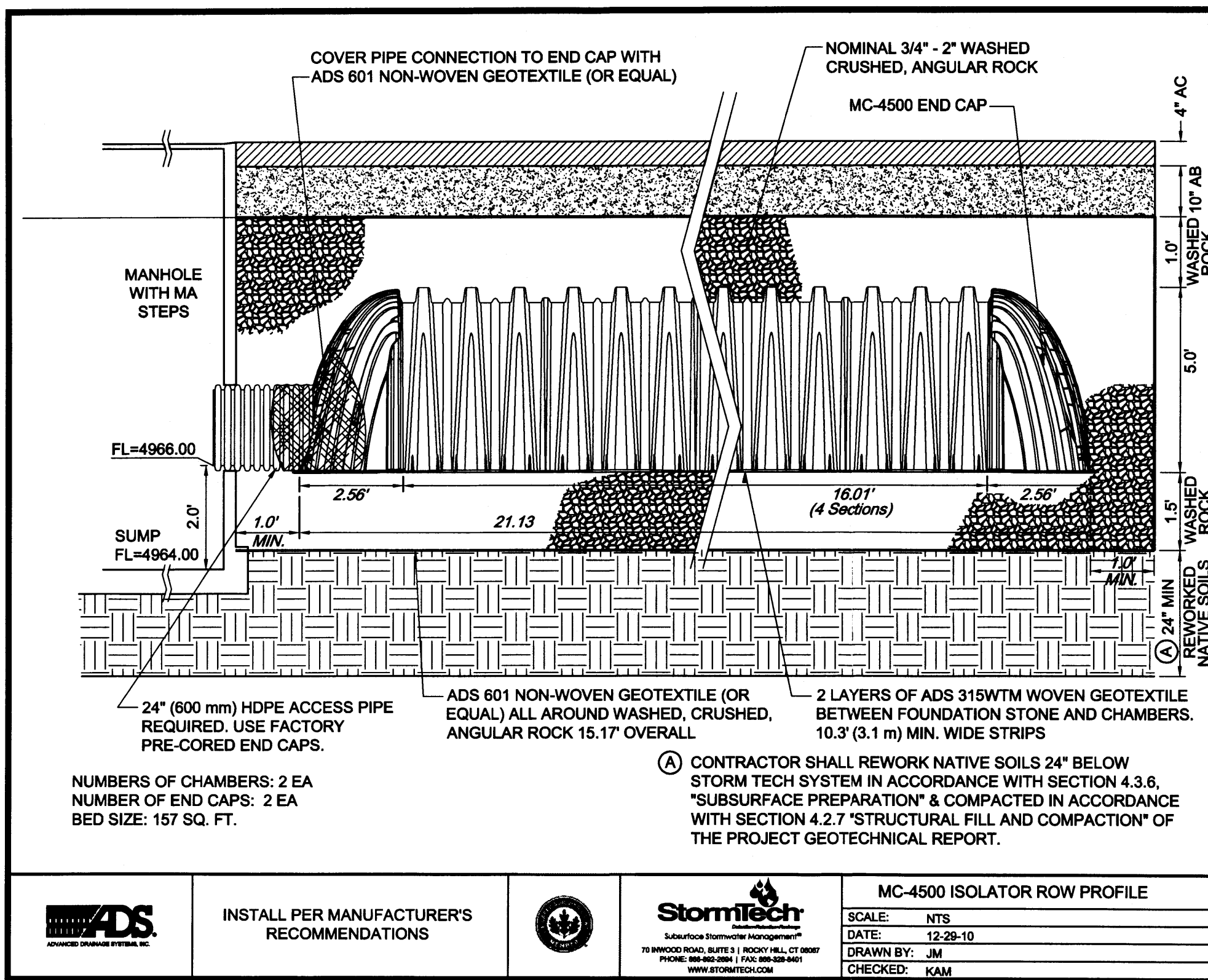
Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107



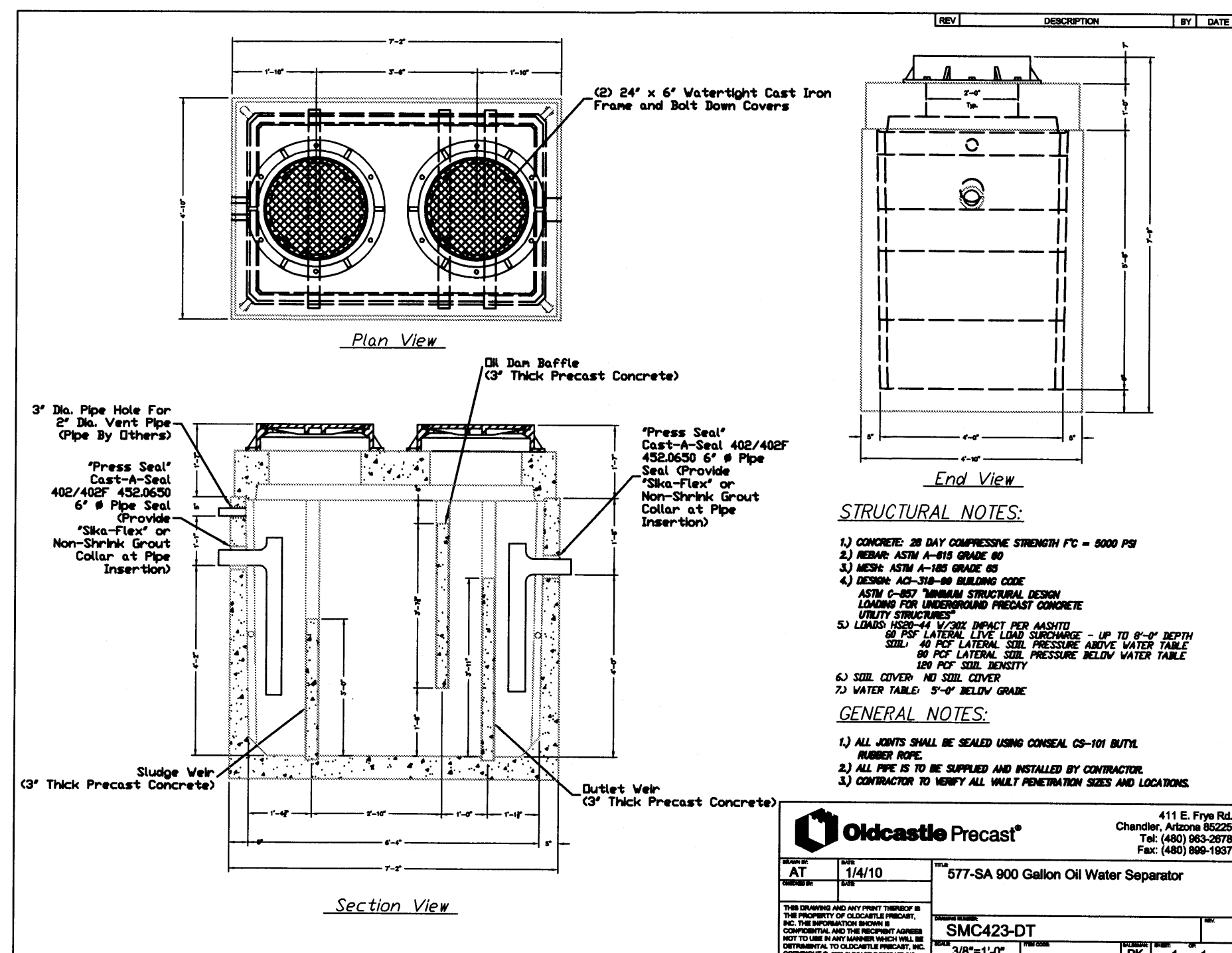
26 Jan, 2016

SHEET NO.

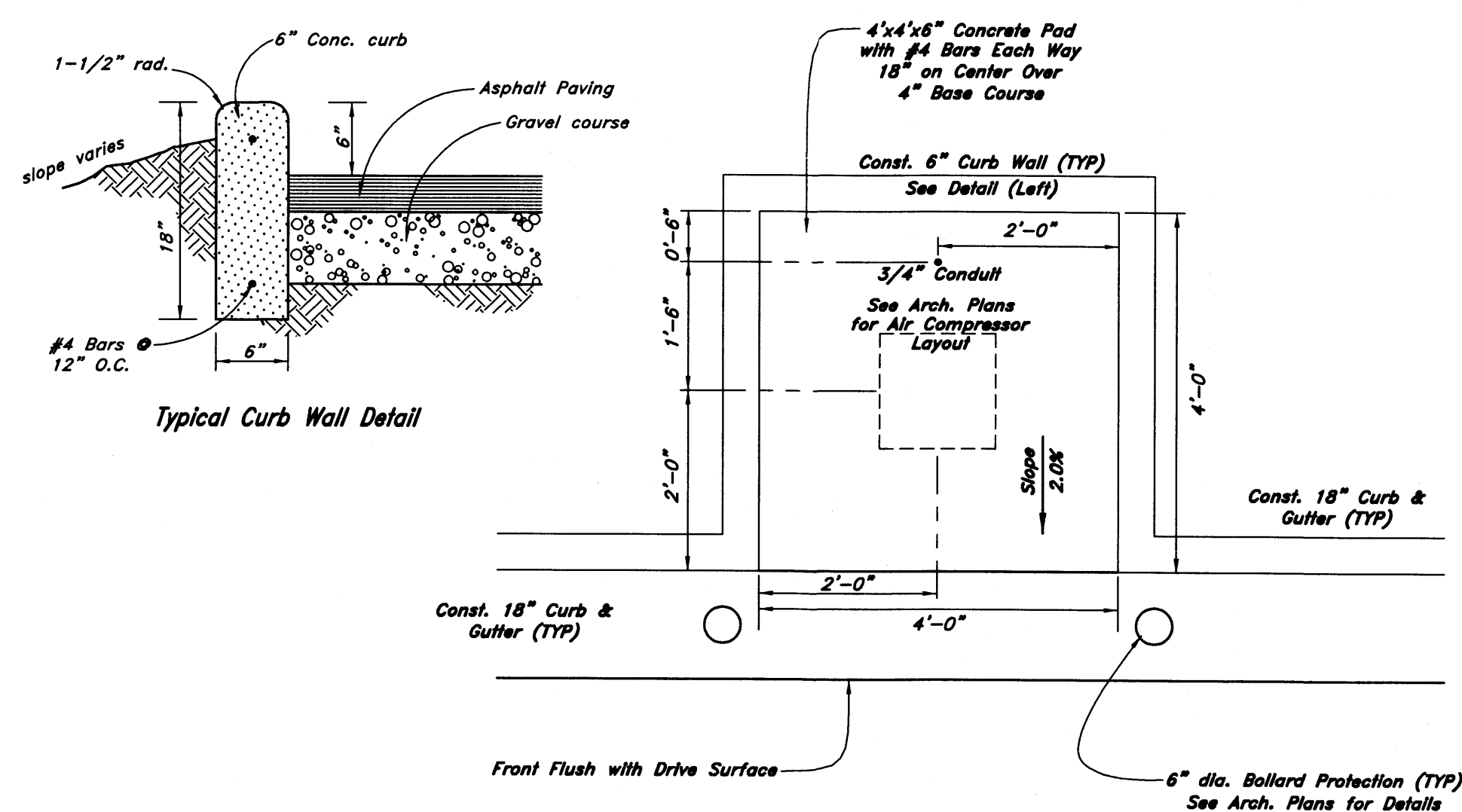
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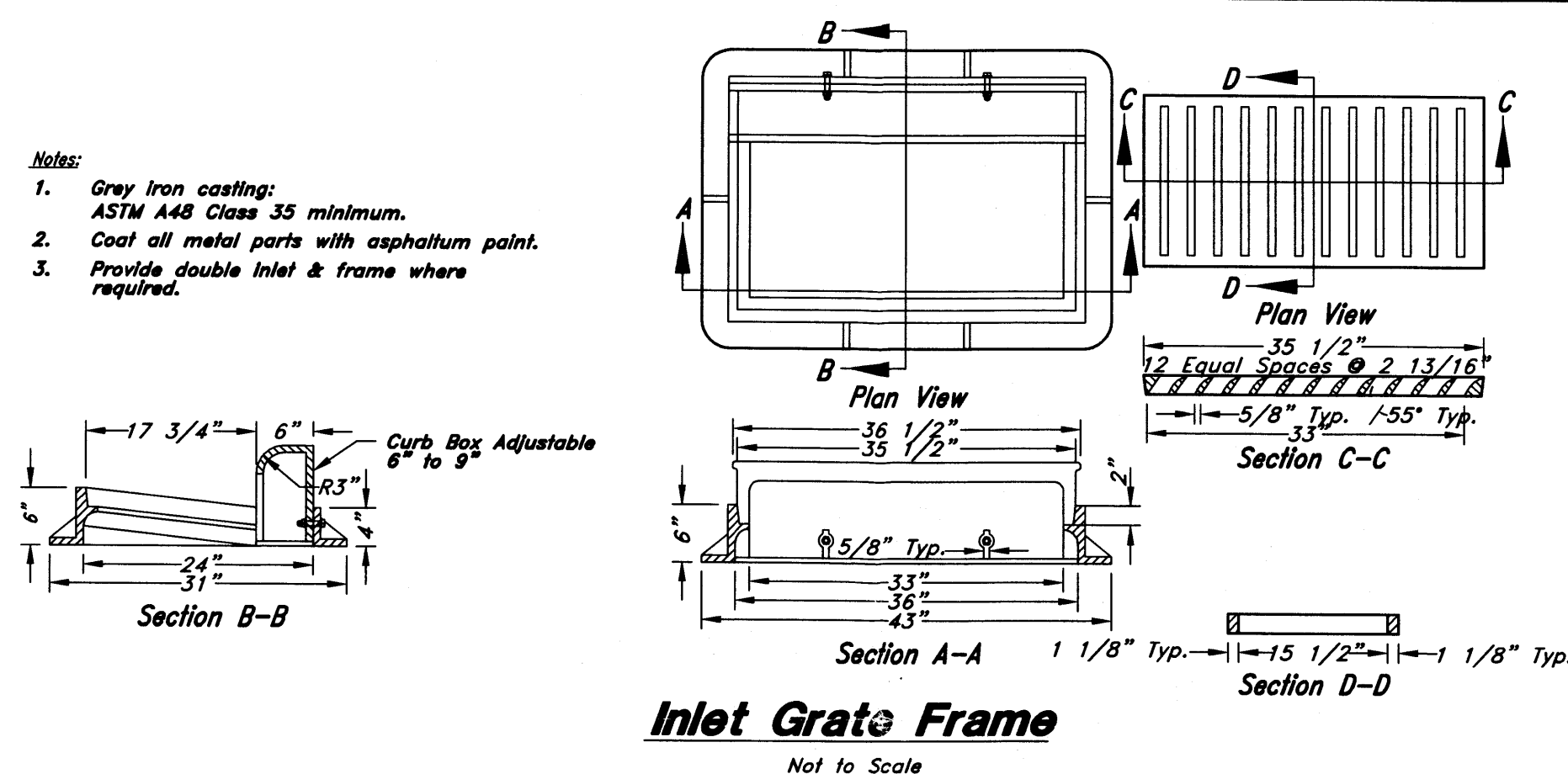
14 StormTech MC-4500 Isolator Row Detail
Not to Scale



13 Oldcastle Precast
Oil / Water Separator 577-SA
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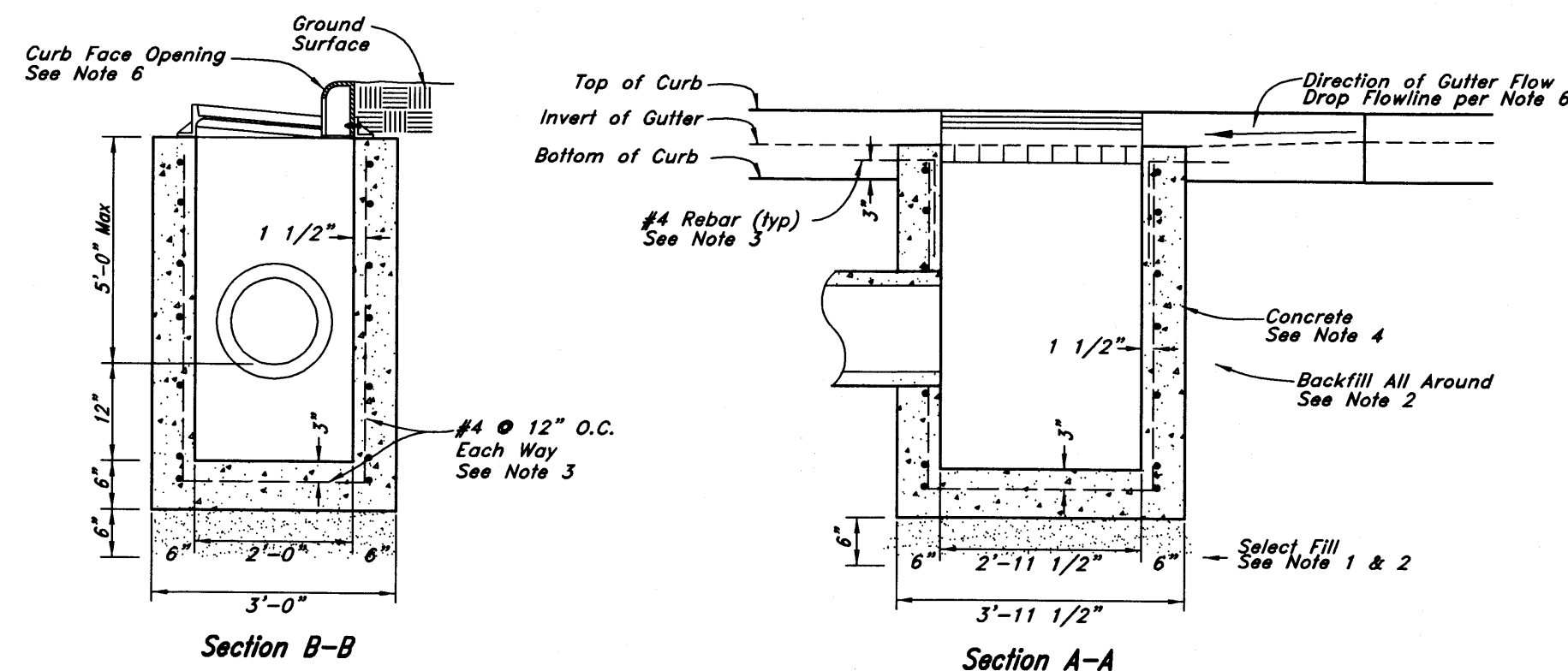


12 Air Pad Detail
Not to Scale

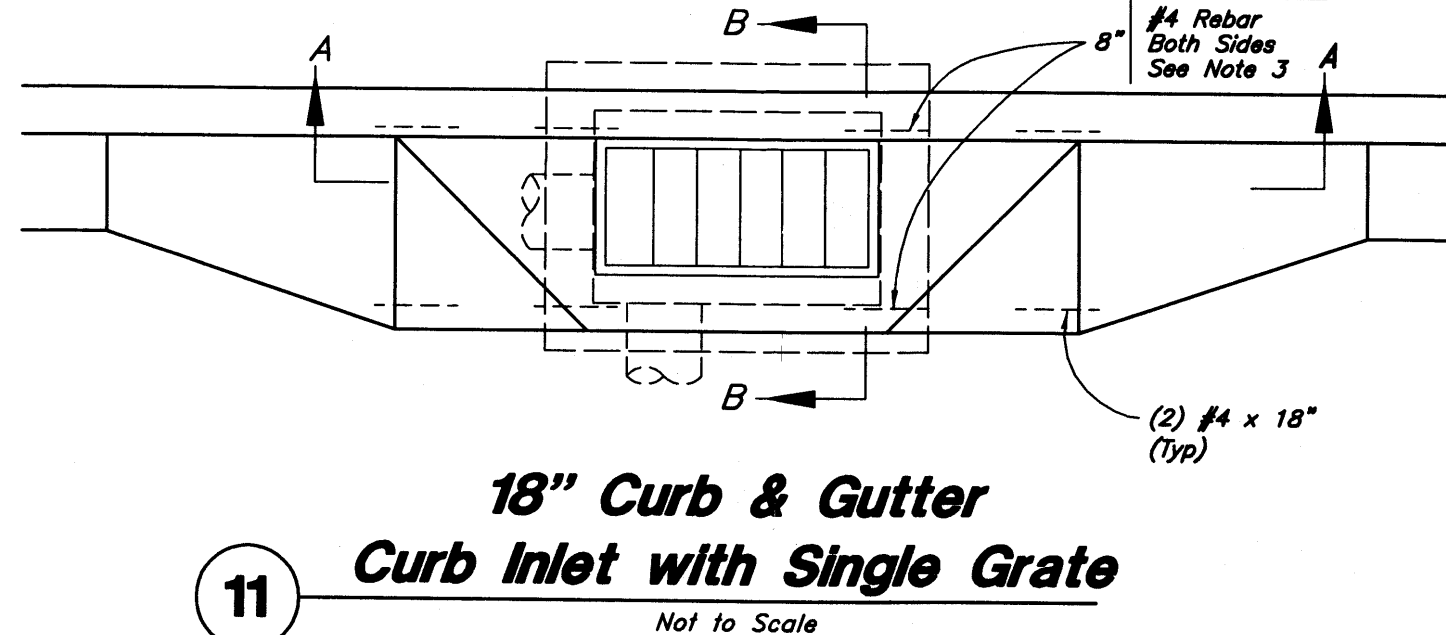


Inlet Gate Frame
Not to Scale

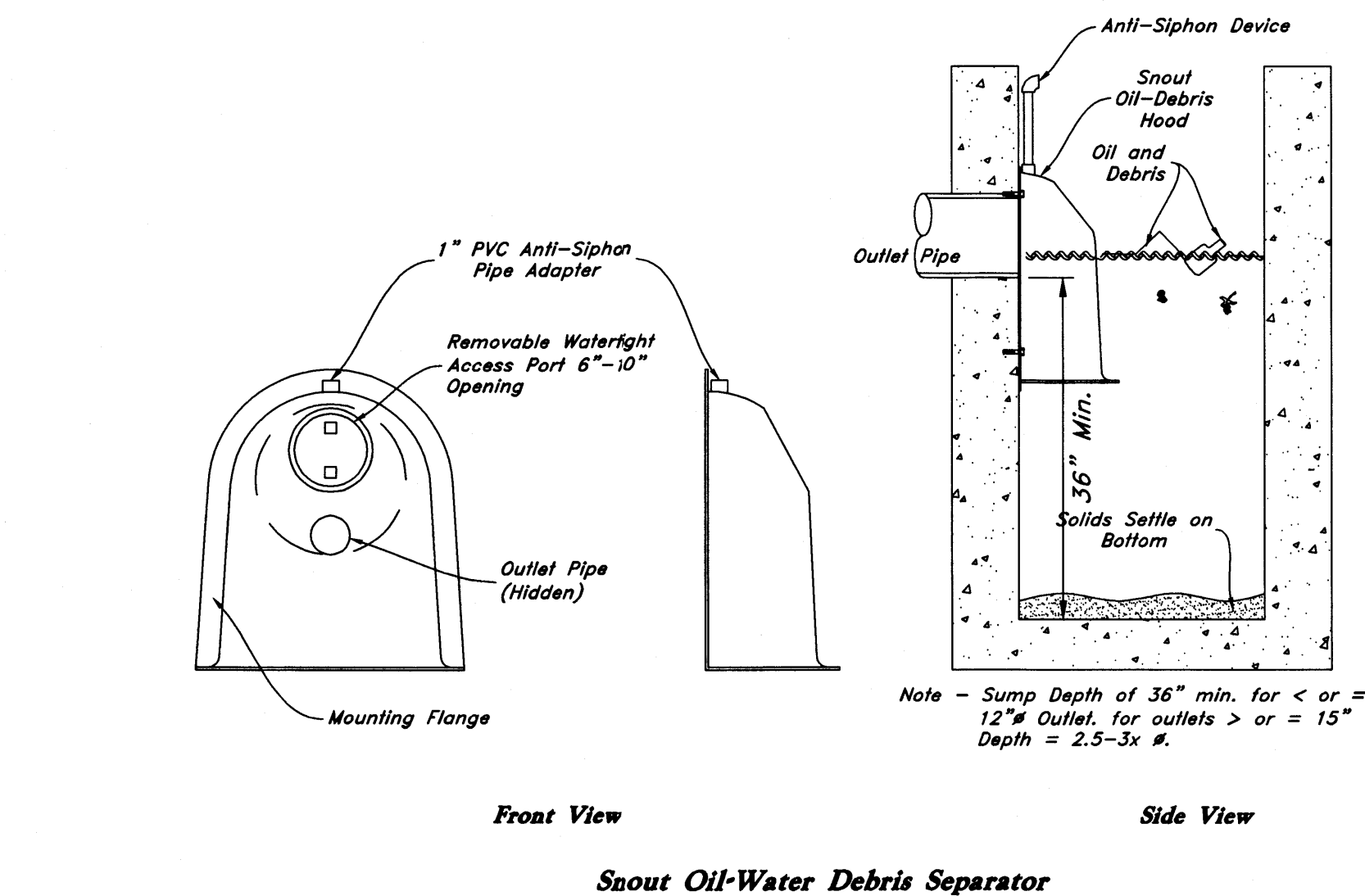
- Catch Basin Notes:
1. Select Fill: Use untreated base course grade 1 or grade 3/4 per APWA Section 02060. Use of sewer rock or recycled aggregate requires Engineers written approval.
 2. Backfill: Install and compact all backfill material or APWA Section 02321.
 3. Reinforcement: Use ASTM A 615, grade 60 deformed steel rebar. See APWA Section 03200.
 4. Concrete: Class 4,000 per APWA Section 03304. Place per APWA Section 03310. Apply a sealing / curing compound per APWA Section 03390 or use an acceptable alternate curing method.
 5. Pipe Laterals: The drawing shows alternate connections to the curb outlet. Refer to construction drawings for connection locations.
 6. Curb Face Opening: Make opening 4 inches high. Provide at least a 2 inch drop from the gutter flowline to the invert of the curb face opening.



9 Typical Concrete Wheel Stop
Not to Scale

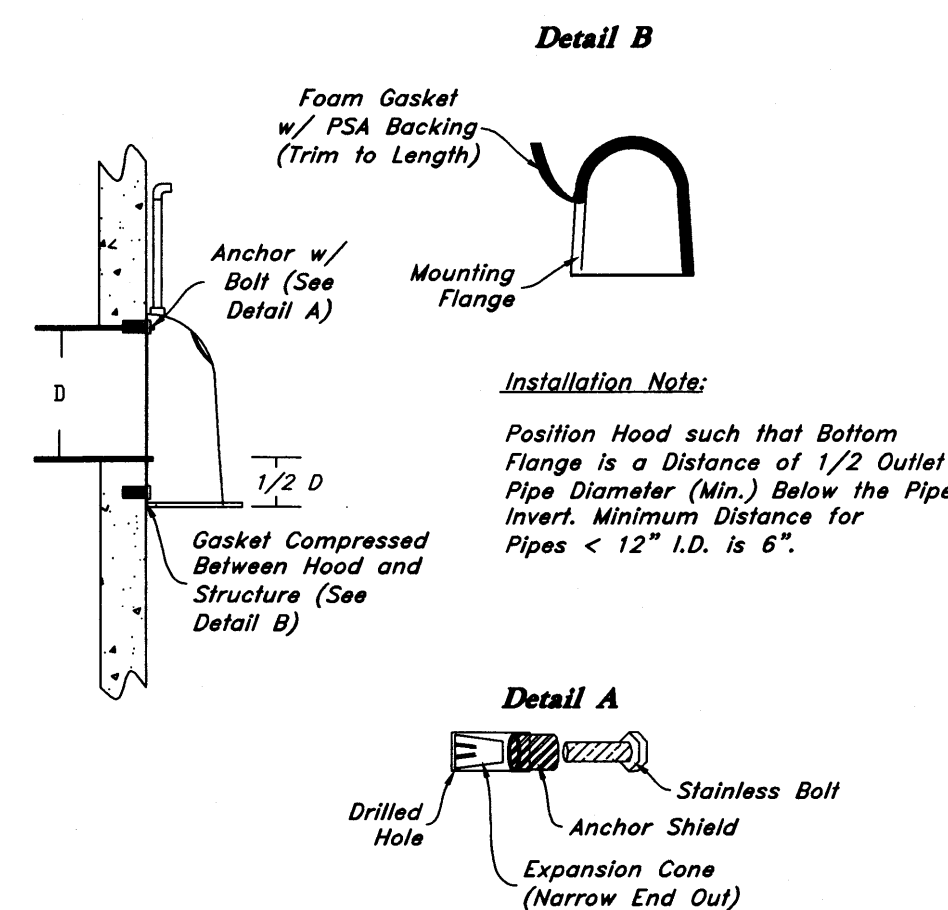


11 18" Curb & Gutter
Curb Inlet with Single Gate
Not to Scale

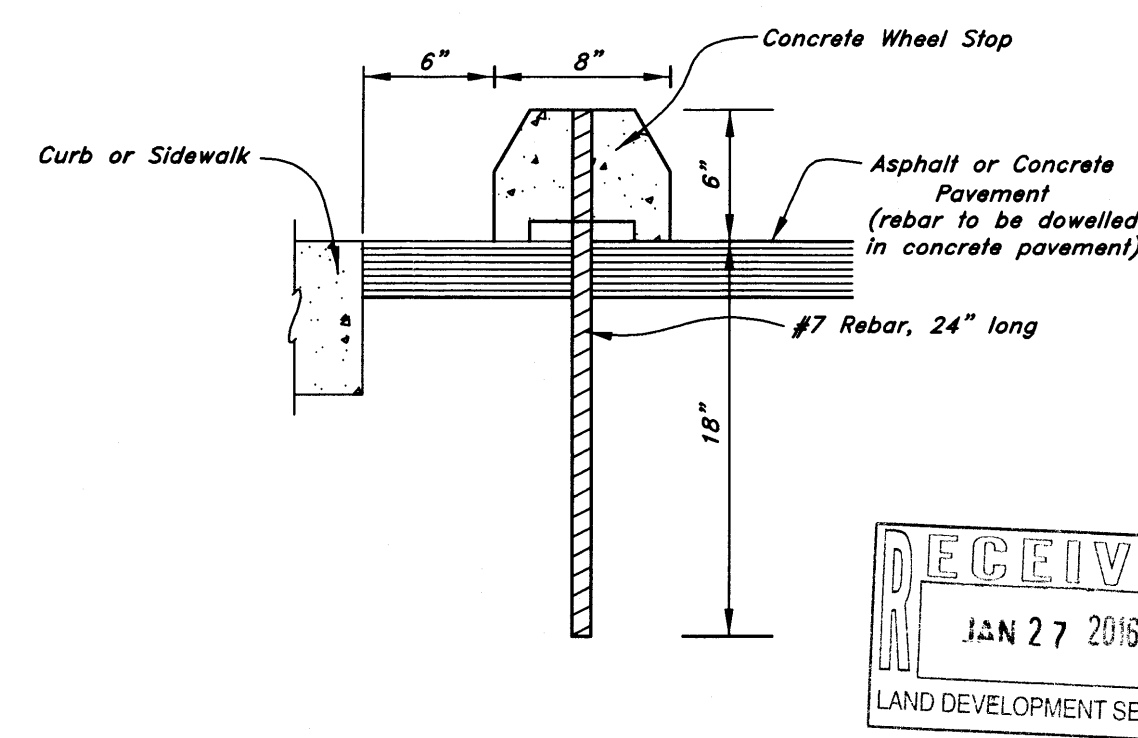


Snout Oil-Water Debris Separator

- Notes:
1. All hoods and traps for catch basins and water quality structures shall be as manufactured by:
Best Management Products, Inc.
53 Mt. Archer Rd.
Lyme, CT 06371
(860) 434-0277, (860) 434-3195 fax
toll free: (800) 504-8008 or (888) 354-7585
web site: www.bestmp.com
or pre-approved equal
 2. All hoods shall be constructed of a glass reinforced resin composite with iso gel coat exterior finish with a minimum 0.125" laminate thickness.
 3. All hoods shall be equipped with a watertight access port, a mounting flange, and an anti-siphon vent as drawn. (see configuration detail)
 4. The size and position of the hood shall be determined by outlet pipe size as per manufacturer's recommendation.
 5. The bottom of the hood shall extend downward a distance equal to 1/2 the outlet pipe diameter with a minimum distance of 6" for pipes <12" i.d.
 6. The anti-siphon vent shall extend above hood by minimum of 3" and a maximum of 24" according to structure configuration.
 7. The surface of the structure where the hood is mounted shall be finished smooth and free of loose material.
 8. The hood shall be securely attached to structure wall with 3/8" stainless steel bolts and oil-resistant gasket as supplied by manufacturer. (see installation detail)
 9. Installation instructions shall be furnished with manufacturer supplied installation kit.
installation kit shall include:
a. installation instructions
b. pvc anti-siphon vent pipe and adapter
c. oil-resistant crushed cell foam gasket with psa backing
d. 3/8" stainless steel bolts
e. anchor shields



10 Snout & Orifice Plate Detail
Not to Scale



9 Typical Concrete Wheel Stop
Not to Scale

New Mexico One Call, Inc.
NMOCC
Professional Resources for Damage Prevention
1-800-321-ALERT

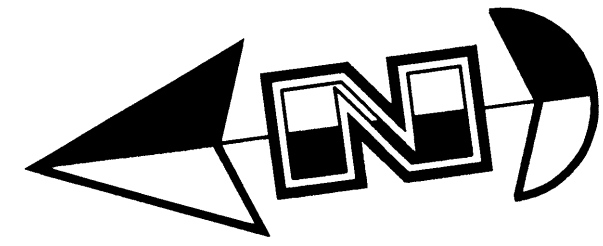
Smith's
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Telephone (801) 974-1400
#423
Albuquerque, New Mexico

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
801 521-8529 - AWahlen@engr.com

Details
Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107

REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
20167
1-26-2016

26 Jan, 2016
SHEET NO.
C4.2



Scale: 1" = 10'



General Grading Notes:

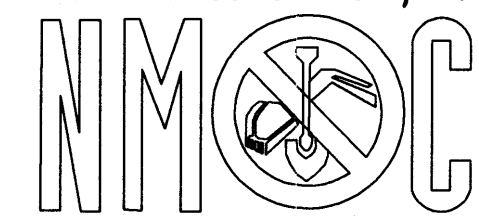
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- It is the responsibility of the surveyor to adjust top of asphalt grades to top of curb grades at the time of construction staking.
- Refer to the typical details for a standard and open face curb and gutter for dimensions.
- Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.

NOTE:
See Plans by Madison Industries for Footing Depth.

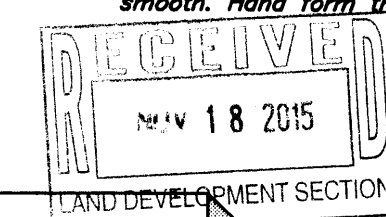
New Mexico One Call, Inc.



Professional Resources for Damage Prevention
1-800-321-ALERT

Accessible Note:

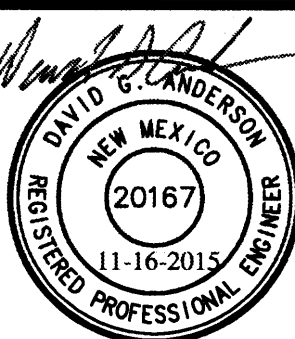
Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routes must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If Grades on plans do not meet this requirement notify Consultant immediately.
The Client, Contractor and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of the (ICC/ANSI A117.1-Latest Edition) and/or FHWA.



Smith's
FOOD & DRUG STORES
#423
Albuquerque, NM

Anderson Whalen & Associates
2010 North Redwood Road, Salt Lake City, Utah 84116
801-521-8529 - awhalen@earthlink.net

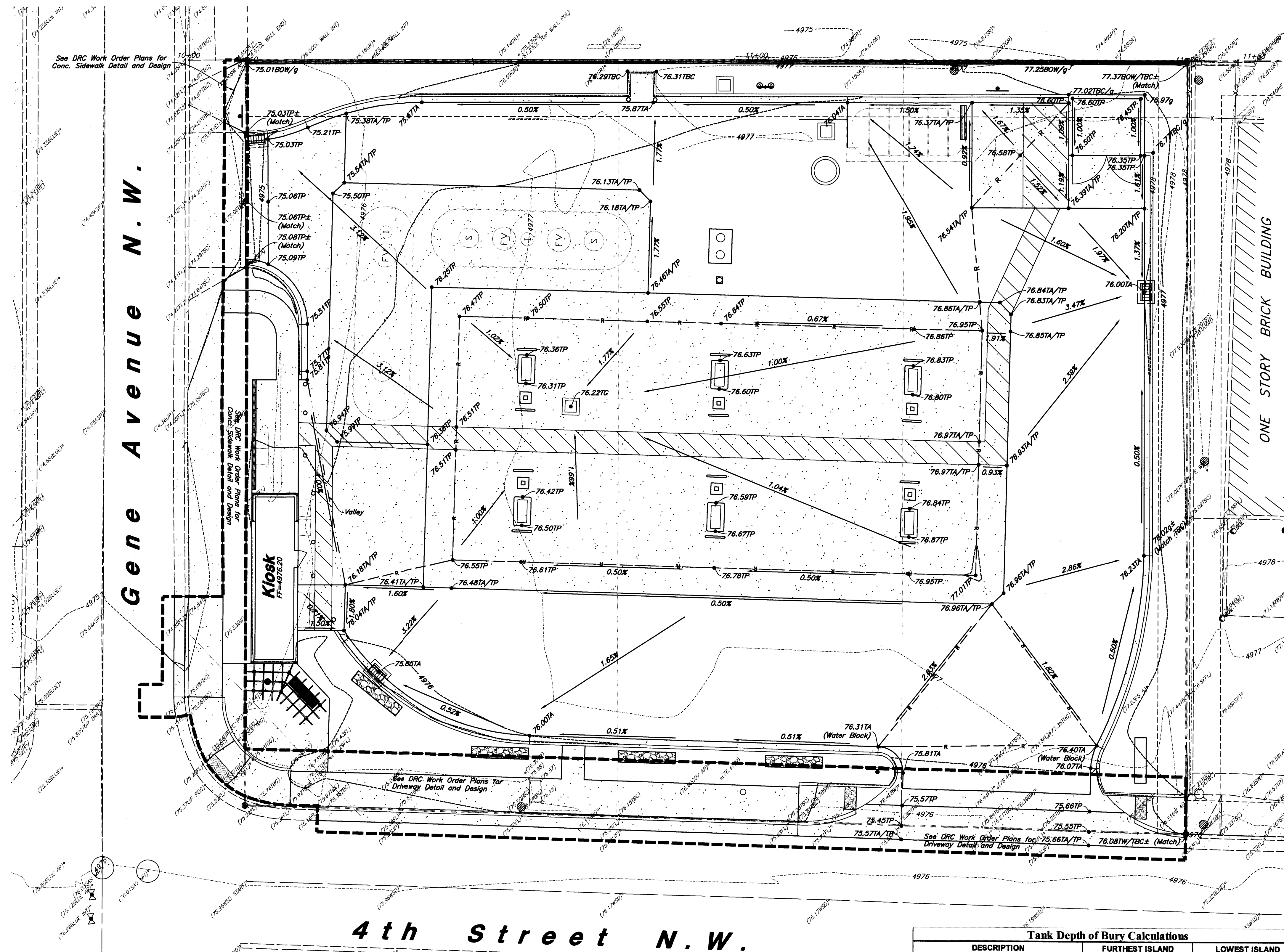
Grading Plan
Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107



16 Nov, 2015

SHEET NO.

C2.1



Tank Installation Notes:

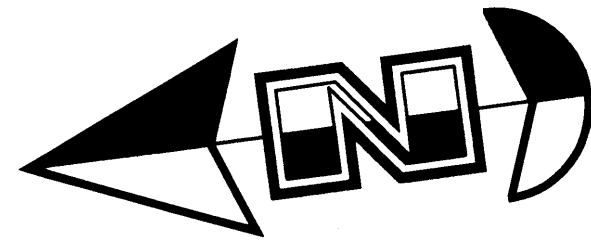
- Contractor shall verify that a minimum of 1% slope is provided on all vapor recovery lines from the MPD to the tanks.

Filter Fabric Notes:

- The bottom and all four sides of tank hole are to be lined with Amoco CEF 4545 or equivalent filter fabric.
- All adjoining filter fabric panel seams are to be overlapped a minimum of 24".
- All filter fabric is to be properly anchored to prevent movement while backfilling tank hole.

Tank Depth of Bury Calculations

DESCRIPTION	FURTHEST ISLAND	LOWEST ISLAND
1. Elevation at Top of Island	4976.87	4976.36
2. Min. Slope of Piping = (L) x 1/8" per foot		
Where L1 = 215 ft., L2 = 60 ft.	2.2	0.6
3. Dispenser Island		
Concrete Drive Slab	6"	
Pipe Cover	8"	
Pipe Diameter	3"	
Tank Connection	10"	
Total	33"	
4. Grade Differential = (#2 + #3)	4.95	3.35
5. Top of Tanks = (#1 - #4)	4971.92	4973.01
6. Top of Tanks = Lowest Calculated Elevation		4971.92
Check Min. / Max. Burial Depth		4.0' Min. / 7.0' Max.
7. Lowest Elevation of Slab Above Tank		4975.50
8. Depth of Bury = (#7 - #6)		3.58
NOTE: If #8 < 4.5 ft., Set Top of Tanks at (#7 - 4.5 ft.) = 4971.00		
If #8 > 7 ft., Contact Owner for Certification of Burial Depth with Tank		4971.00



Scale: 1" = 10'

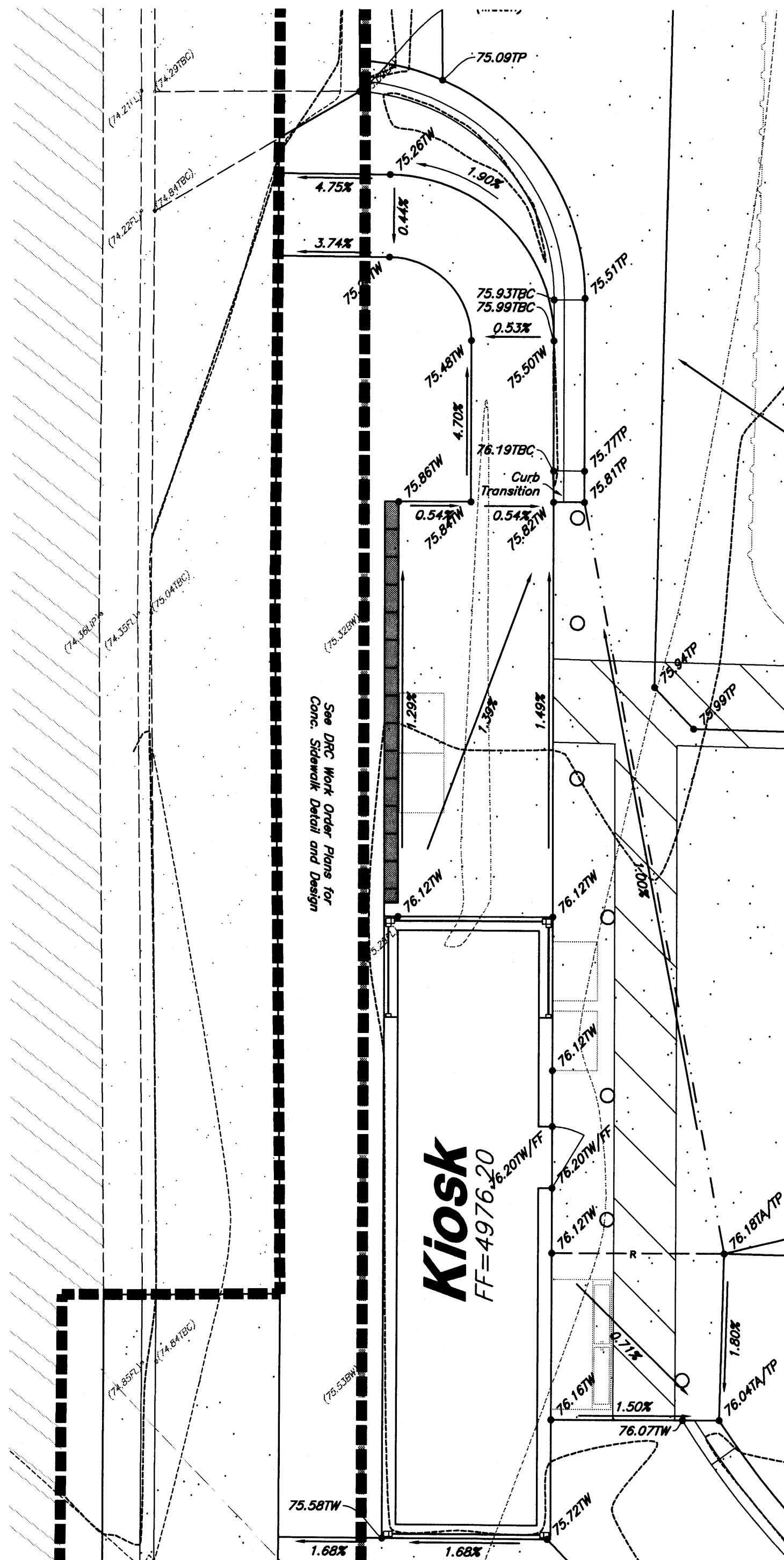


General Grading Notes:

- All grading shall be in accordance with the project geotechnical report.
- Cut slopes shall be no steeper than 3 horizontal to 1 vertical.
- Fill slopes shall be no steeper than 3 horizontal to 1 vertical.
- Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the Owner's Special Inspection.
- Areas to receive fill shall be properly prepared and approved by the Owner's Special Inspection prior to placing fill.
- Fills shall be benched into competent material as per specifications and geotechnical report.
- All trench backfill shall be tested and certified by the Owner's Special Inspection.
- The Owner's Special Inspection shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
- The final compaction report and certification from the Owner's Special Inspection shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
- Dust shall be controlled by watering.
- The location and protection of all utilities is the responsibility of the permittee.
- Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading process.
- All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the City Engineer.
- The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
- The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
- Aggregate base shall be compacted per the geotechnical report prepared for the project.
- The recommendations in the following Geotechnical Engineering Report by Kleinfelder are included in the requirements of grading and site preparation. The Report is titled "Geological Engineering Report Proposed Smith's Food & Drug Fuel Center Retail Store #423 5640 4th Street NW Albuquerque, New Mexico".
Project No.: 20152711.001A
Dated: October 29, 2014
- As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
- If Contractor observes evidence of hazardous materials or contaminated soils he shall immediately contact the project engineer to provide notification and obtain direction before proceeding with disturbance of said materials or contaminated soil.
- Contractor will be responsible to phase the construction development so that storm water improvements and storm water facilities including detention or retention improvement facilities are constructed and functional prior to an offsite storm water release and take necessary construction precautions so that no offsite flooding will occur.
- Importing fill material from an off-site location without prior written approval from the Owner's Project Manager is strictly prohibited. Identification of offsite borrow locations and material must be coordinated and documented with the SWPPP. The Owner's Special Inspection shall verify the suitability of all off-site material. This includes an analysis to ensure that no environmental contamination is present. If any material is brought on site without prior written approval of the Owner's Project Manager, the Contractor will bear all costs associated with removing the material, testing for contamination, monitoring the clean-up operation, disposal in an approved landfill, and certifying that the Owner's site is environmentally clean. If requested, the Owner's Project Manager or the Owner's Special Inspection must be granted unfettered access to any and all borrow sites.

Curb and Gutter Construction Notes:

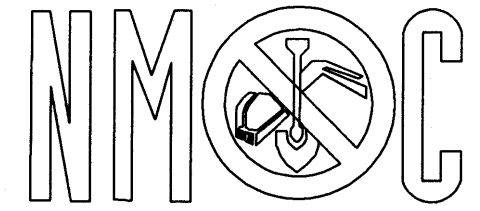
- Open face gutter shall be constructed where drainage is directed away from curb.
- Open face gutter locations are indicated by shading and notes on the grading plan.
- It is the responsibility of the surveyor to adjust top of asphalt grades to top of curb grades at the time of construction staking.
- Refer to the typical details for a standard and open face curb and gutter for dimensions.
- Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.



Pedestrian Access Route & Kiosk Merchandise Area

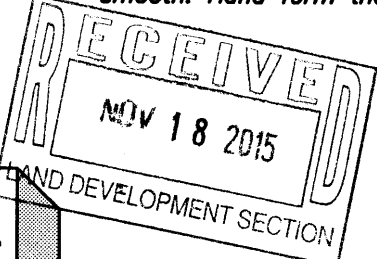
NOTE:
See Plans by Madison Industries for Footing Depth.

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Accessible Note:
Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routes must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If Grades on plans do not meet this requirement notify Consultant immediately.
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Smith's
FOOD & DRUG STORES
#423
Albuquerque, NM

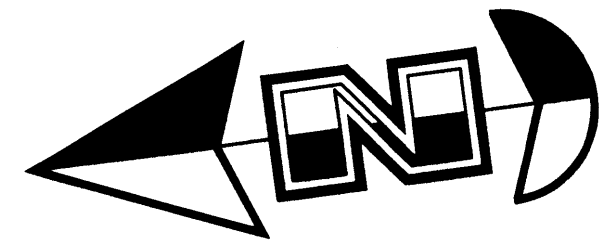
Enlarged Grading Plan

Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107



16 Nov, 2015

SHEET NO.
C2.2



Scale: 1" = 10'



General Utility Notes:

- All sewer and water facilities shall be constructed per local jurisdiction standards and specifications. Contractor is responsible to obtain standards and specifications.
- Coordinate all utility connections to building with plumbing plans and building contractor.
- Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connections being made.
- All catch basin and inlet box grates are to be bicycle proof.
- Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
- Gas lines, telephone lines, and cable TV lines are not a part of these plans.
- Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
- Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is responsible, at no cost to the owner, to construct any vertical adjustments necessary to clear sewer, storm drain, or other utilities as necessary including valve boxes and hydrant spools to proper grade.
- Contractor shall install a 12" concrete collar around all manholes, valves, catch basins, cleanouts & any other structures located within the asphalt.

Utility Piping Materials:

All piping to be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

Culinary Service Laterals

- Pipe material as shown on utility plan view and/or to meet city standards.

Water Main Lines and Fire Lines

- Pipe material as shown on utility plan view and/or to meet city standards.

Sanitary Sewer Lines

- All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35

Storm Drain Lines

- 12" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
- 15" pipes or larger - ADS High Density Polyethylene (HDPE) AASHTO M 254, Types with Smooth Interior or Equal as Approved.

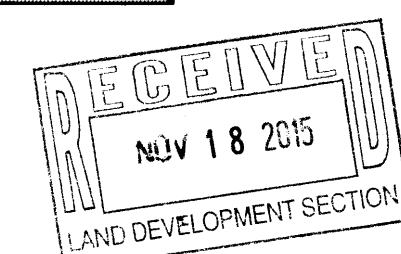
Storm Drain Note:

All Storm Drainage Pipe Lengths and Slopes are from Center of Box to Center of Box.

CAUTION:

The locations and/or elevations of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete.

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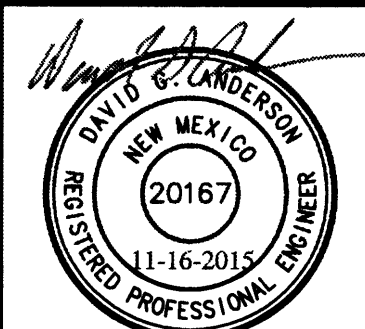


Smith's
FOOD & DRUG STORES
#423
Albuquerque, NM

Designed by: KR/AT
Drafted by: AM/NM
Client Name:
Smith's Food & Drug Stores
SMC423-UT

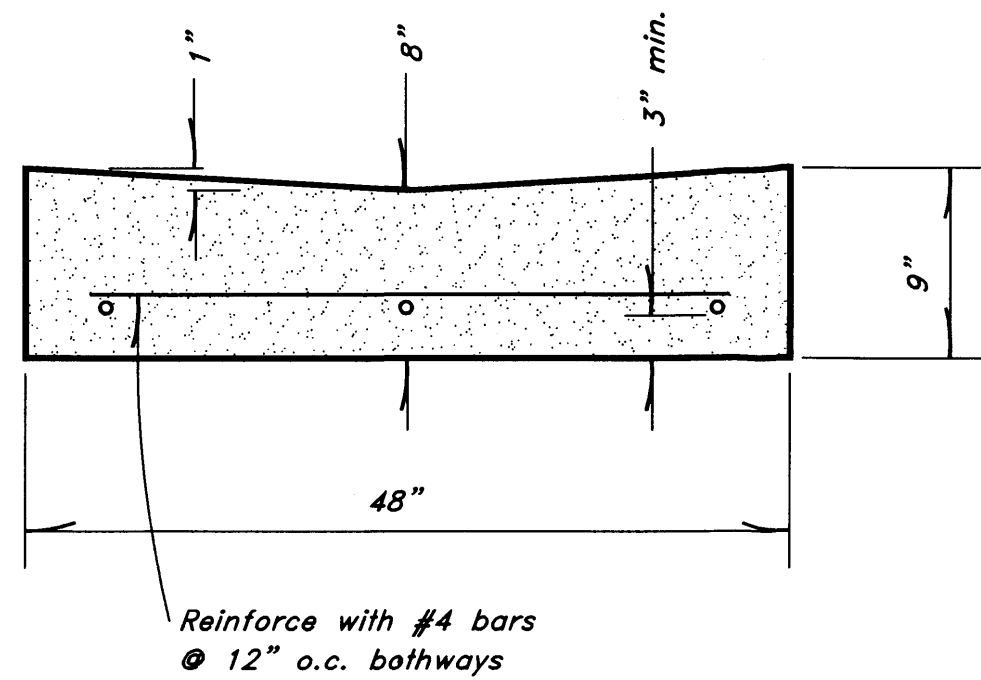
ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Suite 100, Las Vegas, NV 89115
801.521.8529 - AWAengineering.net

Utility Plan
Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107



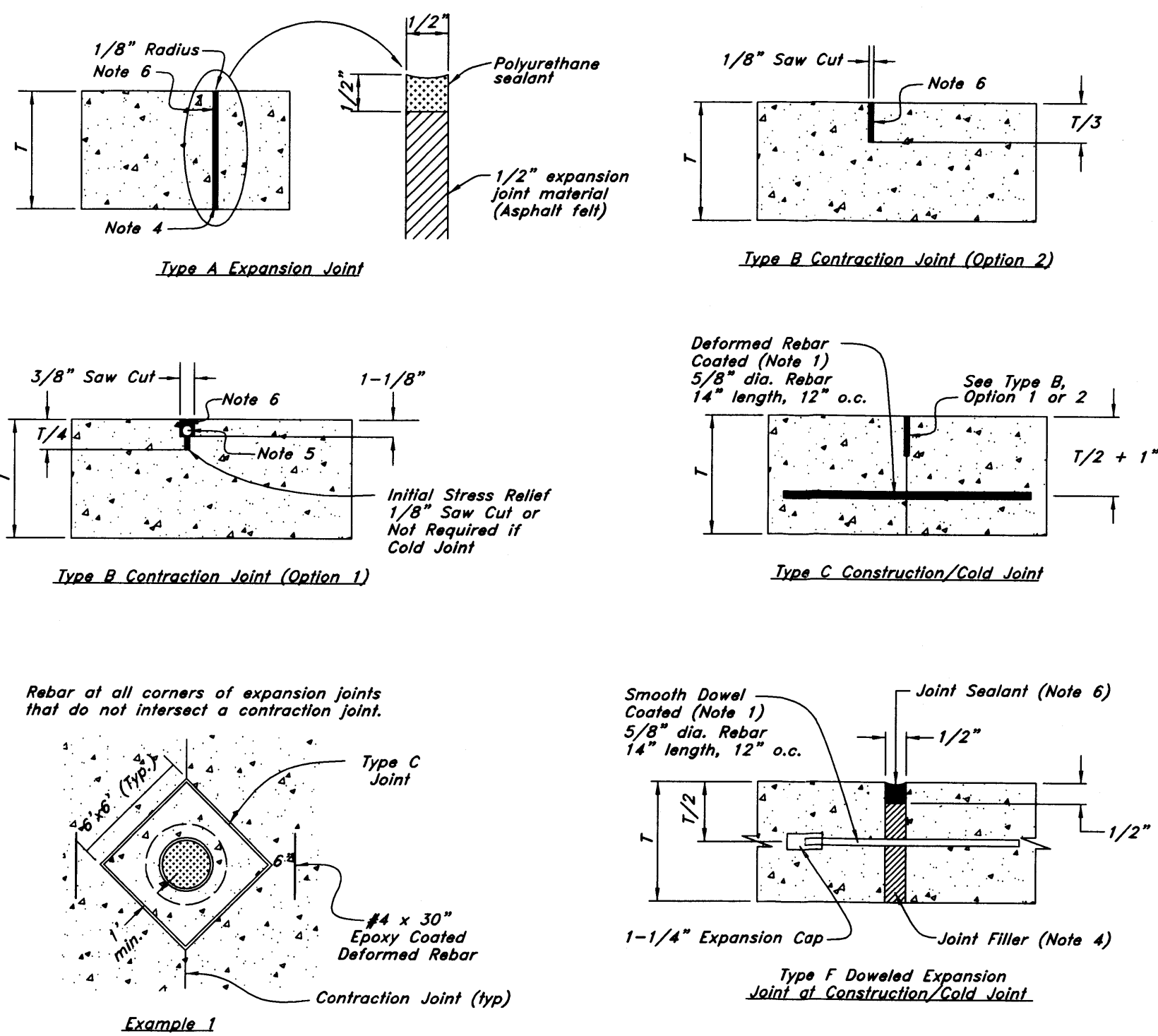
16 Nov, 2015

SHEET NO.
C3.1

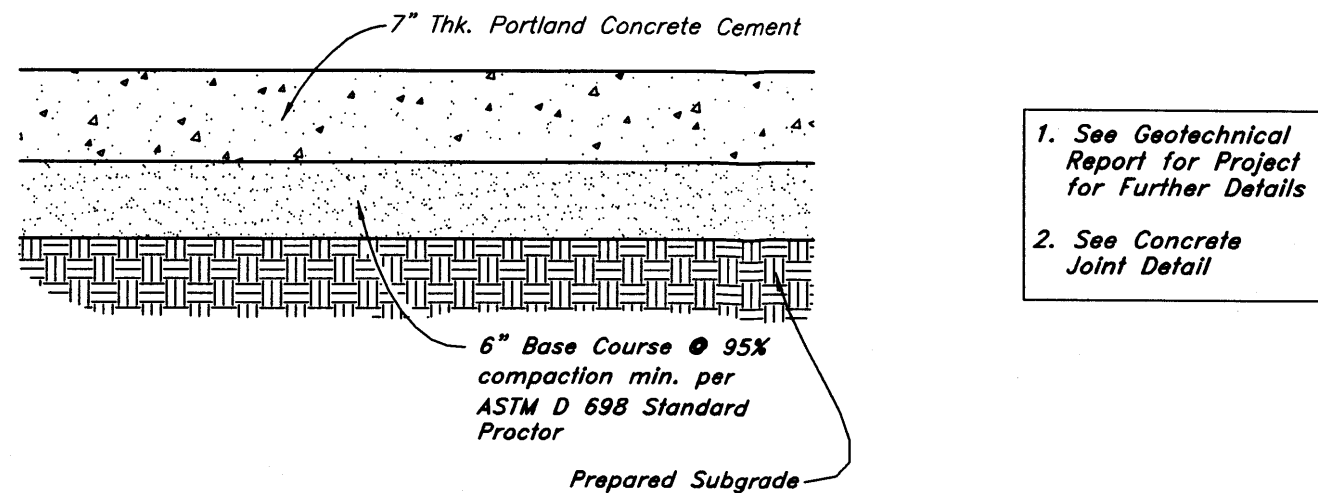


8 Typical Waterway Detail
Not to Scale

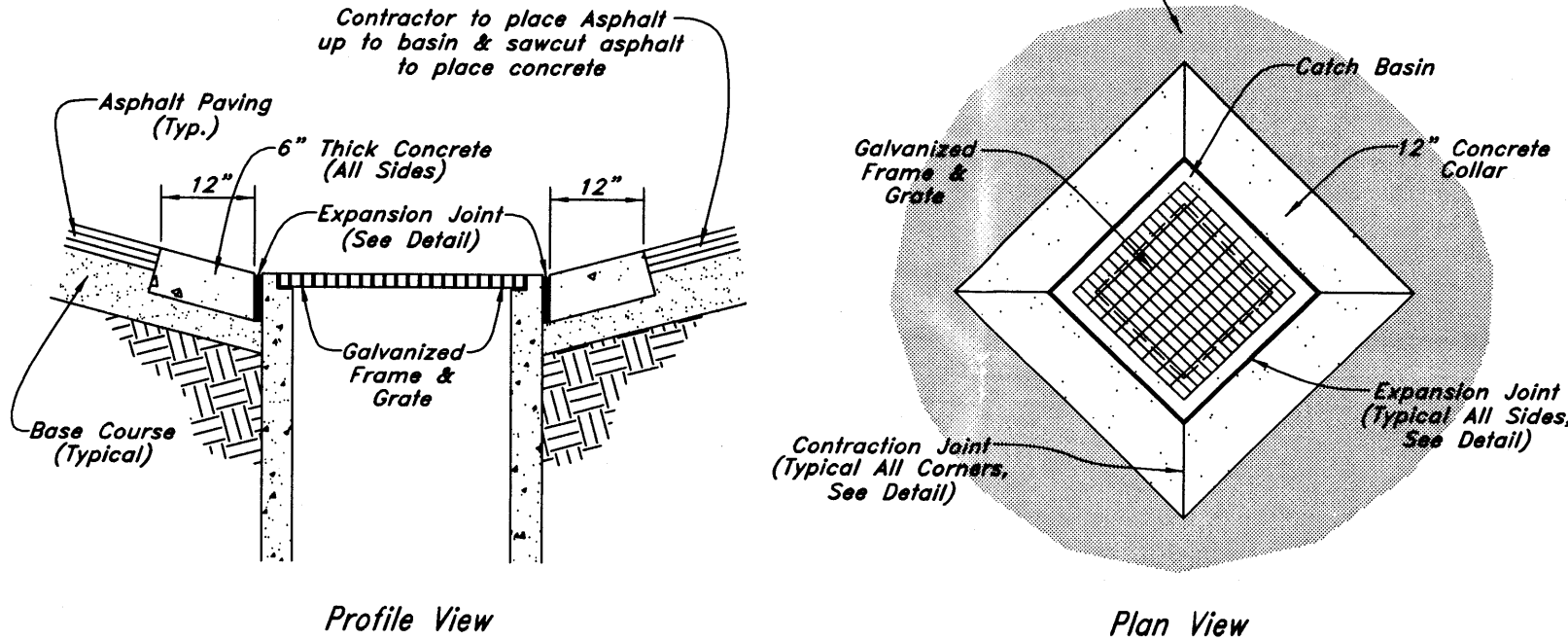
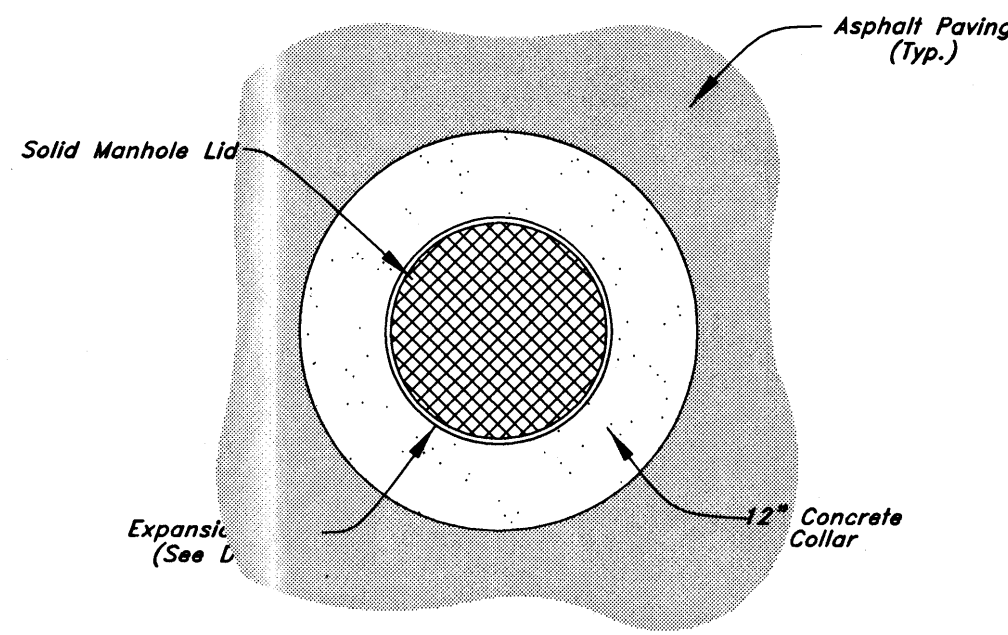
- REINFORCEMENT:** ASTM A 615, grade 60, galvanized or epoxy coated deformed steel rebar or smooth steel dowels with diameter and length as indicated.
 - Space rebar and dowels at 12 to 15 inches on center.
 - Grease dowels to provide movement in expansion joints.
 - Keep the bars in the vertical center of the concrete slab and perpendicular to the joint during concrete placement.
- SAWING:** Keep at least 3 working power saws on-site when concrete is being placed. Saw crack control joints (contraction joints) before shrinkage cracking takes place. Do not tear or ravel concrete during sawing. In cool weather, the joint sawing may be delayed only for the time required to prevent tearing and raveling the concrete. Cut joints to dimensions recommend by sealant manufacturer and approved by ENGINEER.
- JOINTS:** Lay out joints to aid construction and control random cracking.
 - Joint Spacing shall be 12 feet maximum on center in both directions.
 - Extend transverse contraction joints continuously across the full width of the concrete. Make the joints coincide with curb and gutter joints.
 - Make adjustments in joint locations to meet inlet or manhole locations.
 - Expansion joints shall be placed where concrete abuts a building wall, sidewalk, curb, gutter or any immovable structure.
- JOINT FILLER:** Bituminous (Asphalt or tar) mastic, ASTM D994. Formed and encased between 2 layers of bituminous saturated felt or 2 layers of glass-fiber felt extending to the bottom of the concrete slab.
- BACKER ROD:** Round Rods. It must be oversized approximately 25 percent to fit tightly into each joint and compatible with hot poured sealant.
- JOINT SEALANT:** Hot applied, Asphalt base type, ASTM D 3405. Remove dirt, oil, and curing compounds from joint reservoir. Seal joints immediately after cleaning.



7 Concrete Joint Detail
Not to Scale



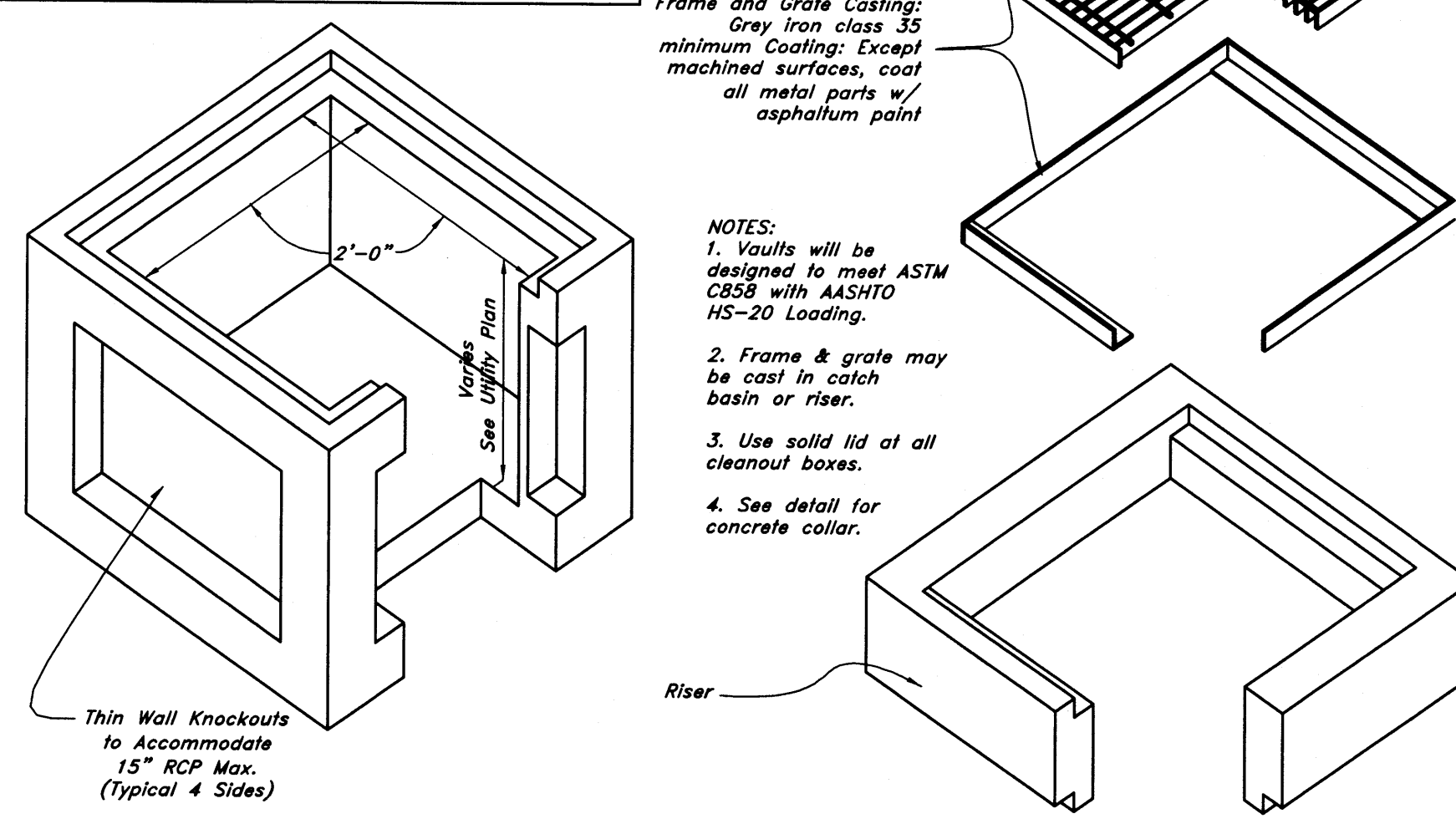
6 Concrete Paving Section
Not to Scale



5 12" Concrete Collar
Not to Scale

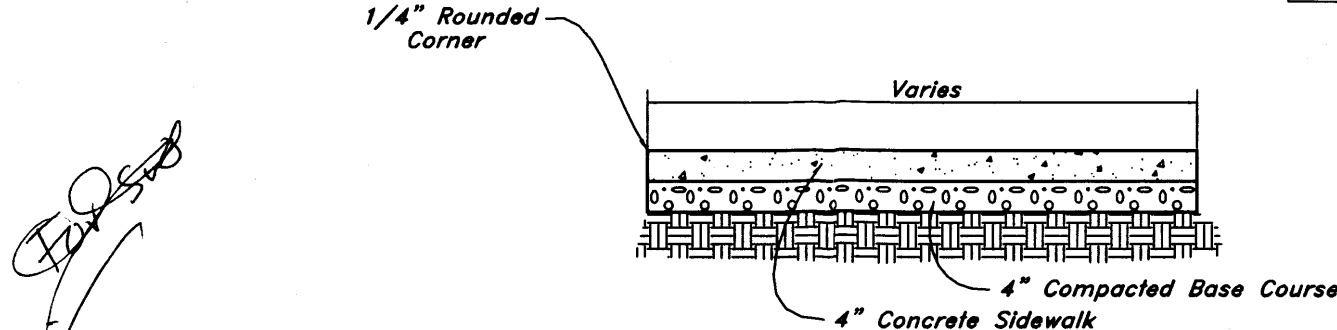
UNDER CANOPY REQUIREMENTS FOR SPECIAL GRATE:

Any Grate under the Canopy shall be Neenah R-1881-B Type O Pedestrian Grate or Equivalent. Also, a Kristar Flo-Gard Plus Catch Basin Insert Filter must be installed.

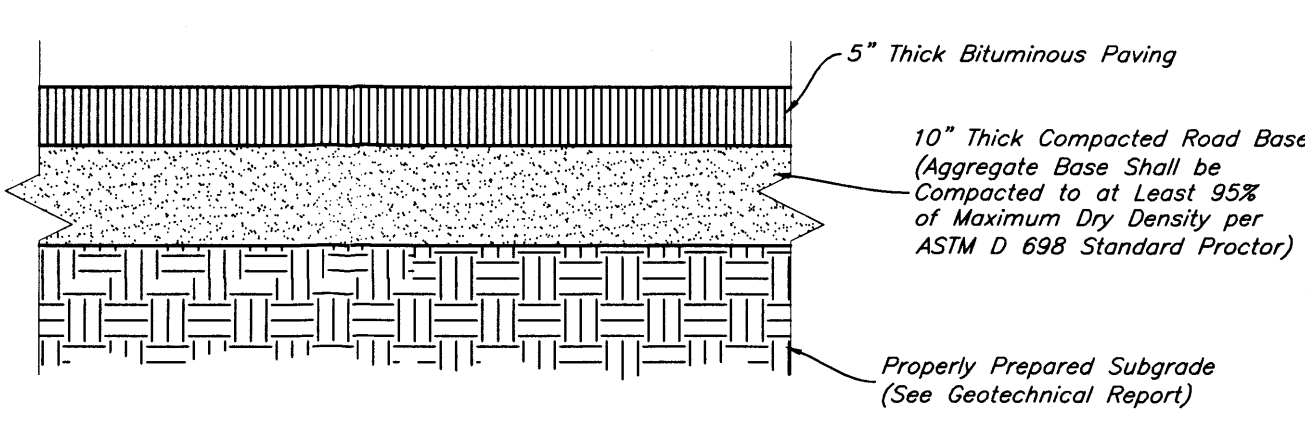


4 Precast 24" x 24" Catch Basin / Junction Box
Not to Scale

- Contraction Joints**
A. Spacing = 10' o.c.
- Expansion Joints**
A. Make expansion joints full depth, see joint detail
B. Place expansion joint at all cold joints
C. Expansion joints are required at the start or end of curb radius

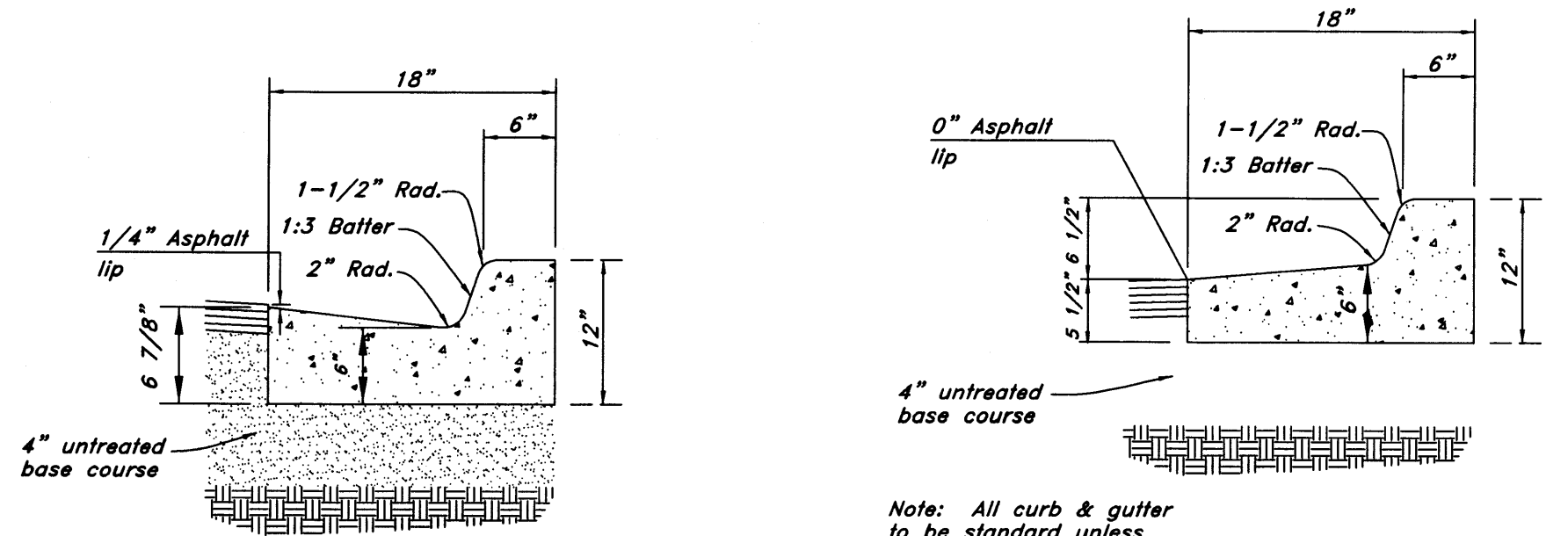


3 Typical Sidewalk Detail
Not to Scale



2 Standard Asphalt Section
Not to Scale

- Contraction Joints**
 - Spacing = 10' o.c., see joint detail
 - 1/8" wide by 2" deep from top of curb at 15'-0" intervals
- Expansion Joints**
 - Make expansion joints full depth, see joint detail
 - Place expansion joint at all cold joints
 - Expansion joints are required at ends of all radii.
 - Required 5'-0" on each side of drainage structures
 - Required at 90'-0" maximum intervals in straight curb and gutter
 - Provide #6 x 18" long smooth steel dowel bars with 1" dia. grease cap through expansion joints (3/4" thick bituminous filler material)
- 2'-6" Long tie bar on 2'-6" centers shall be provided when curb is adjacent to P.C.C. pavement
- Provide (2) #6 x 2'-6" long tie bars to connect existing and new curb and gutter
- Remove forms as early as possible. Brush top and face of curbs to remove all imperfections. Typical of all form work.
- All radii shall be true arcs
- Medium to light broom finish on all exterior concrete



1 (On-Site) 18" Curb And Gutter
Not to Scale

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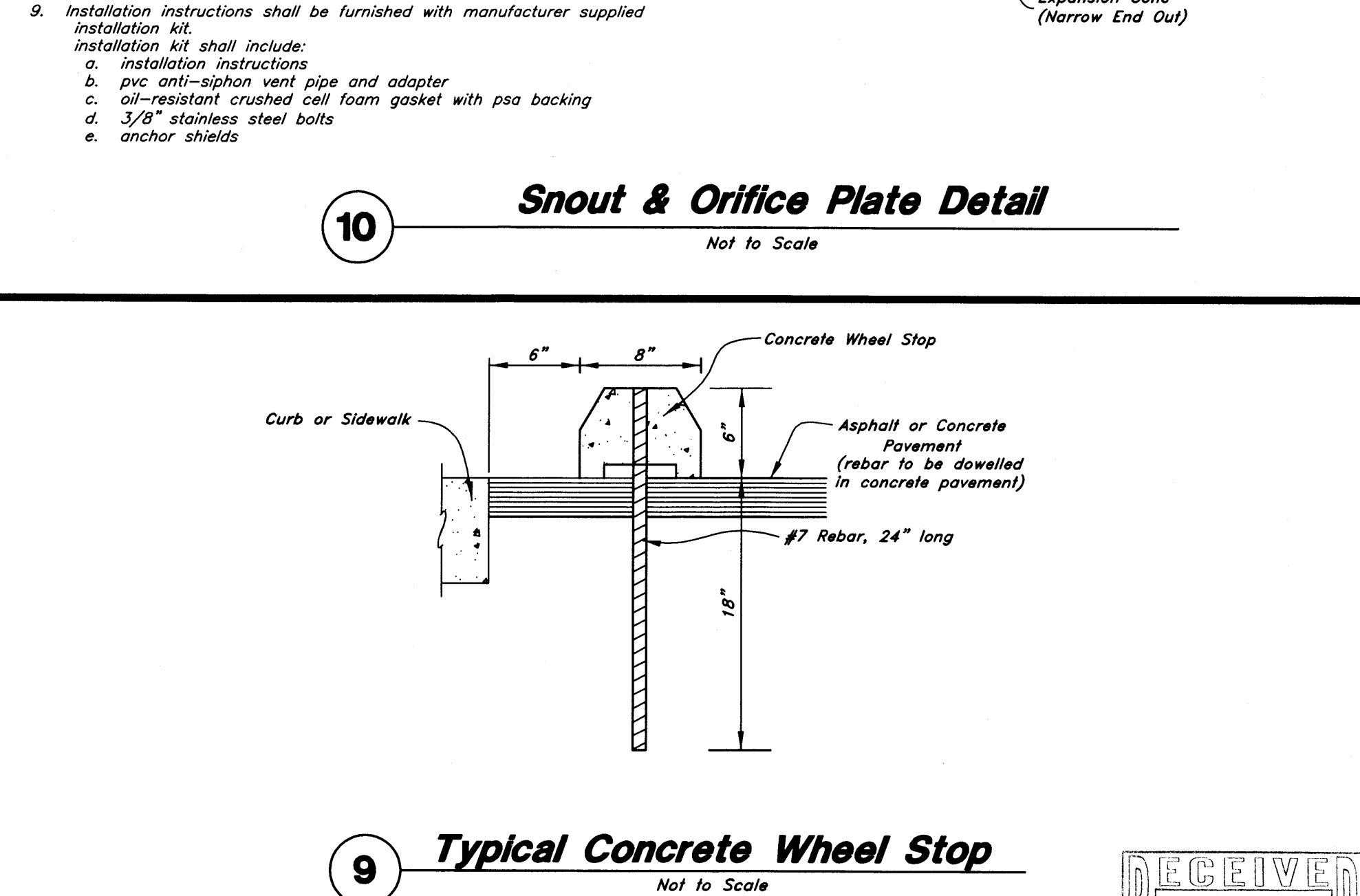
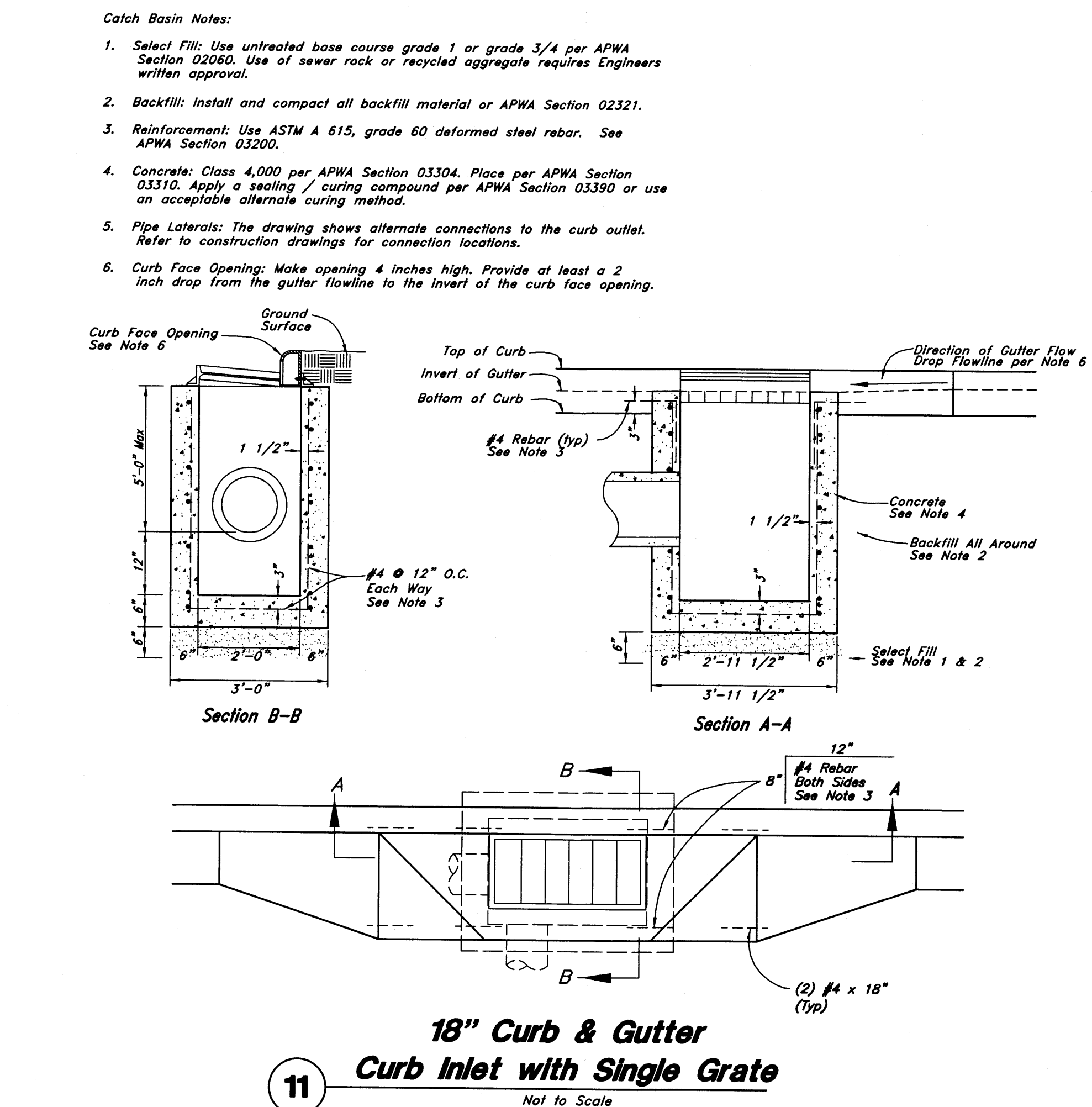
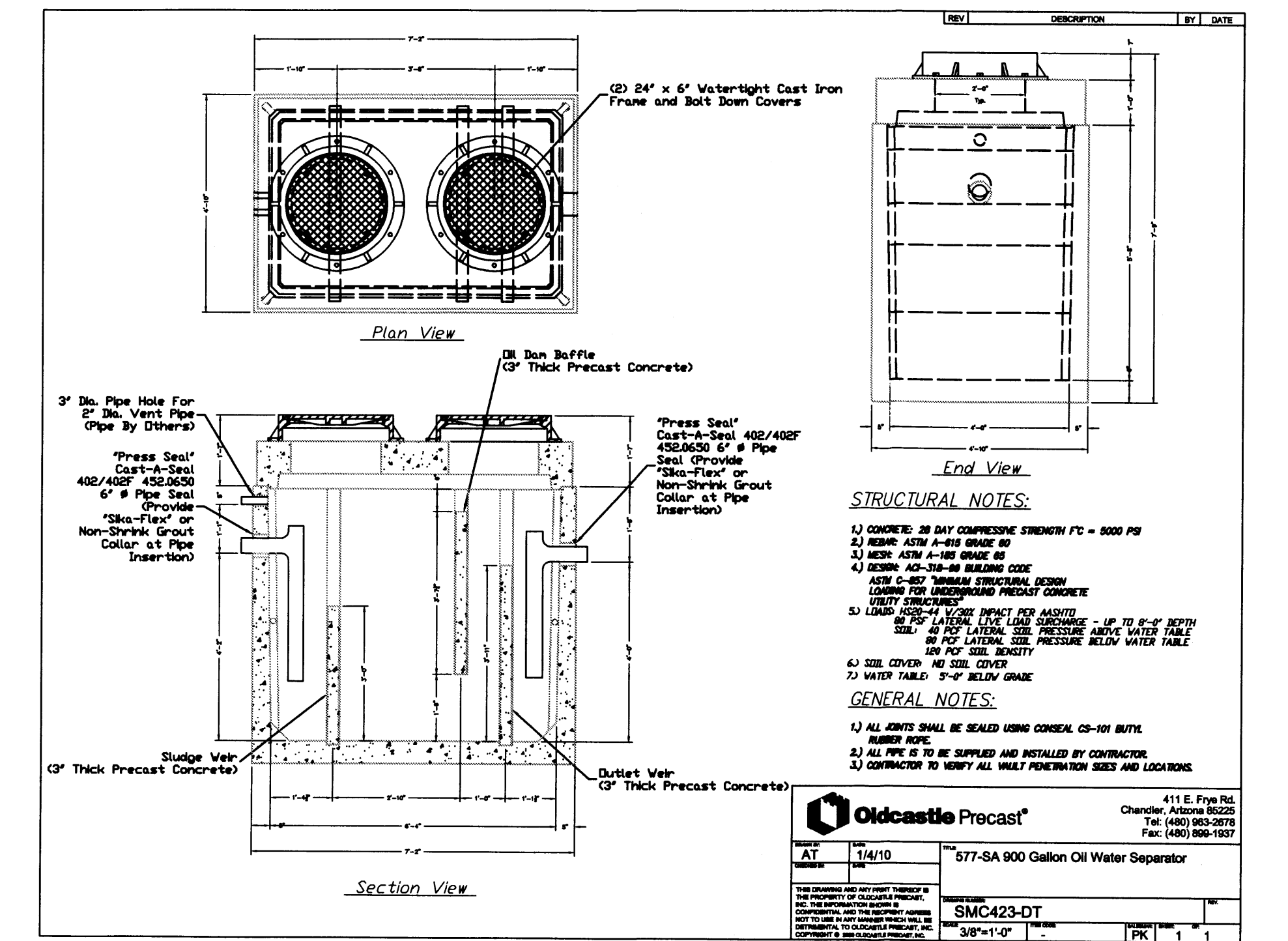
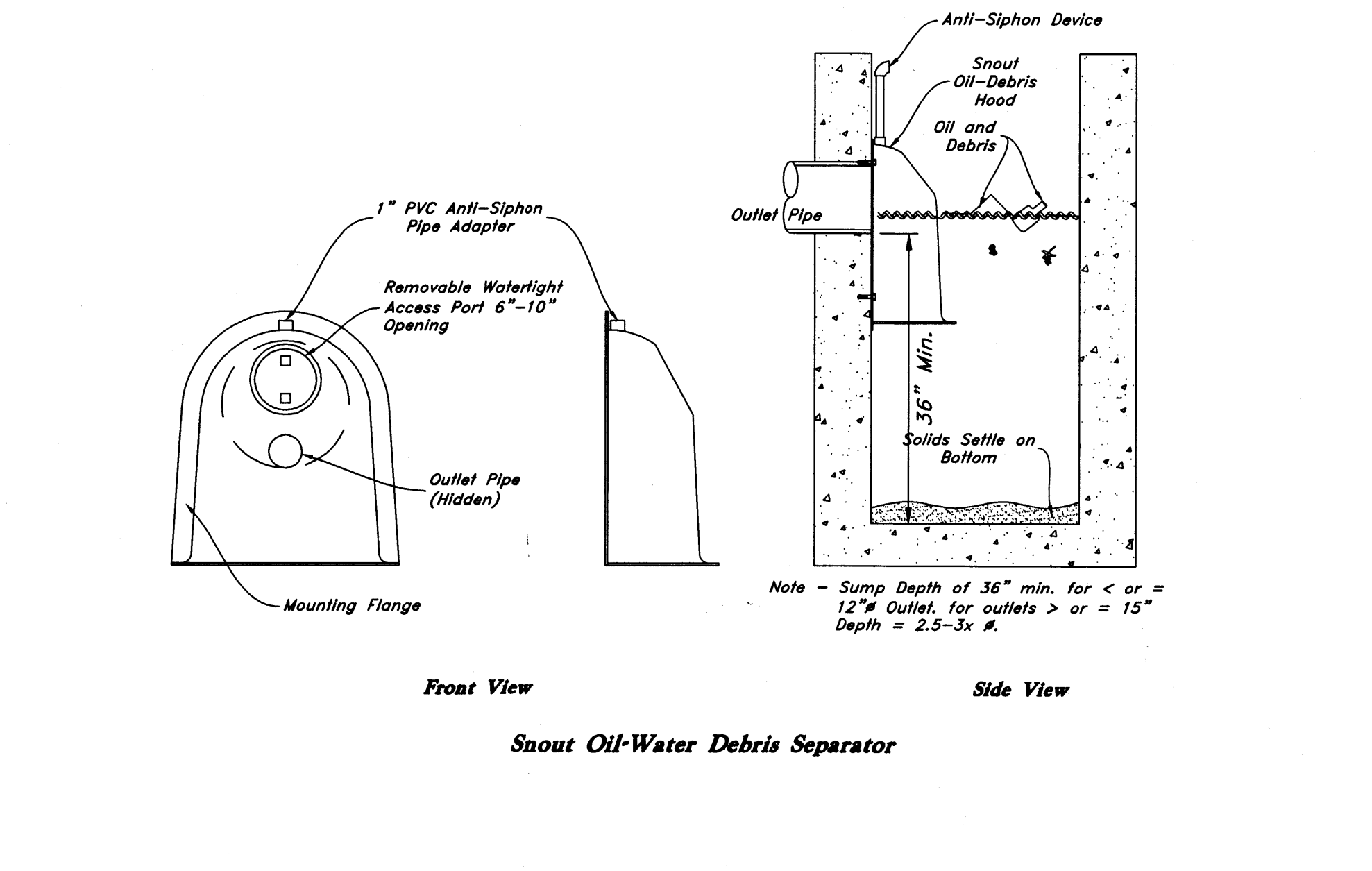
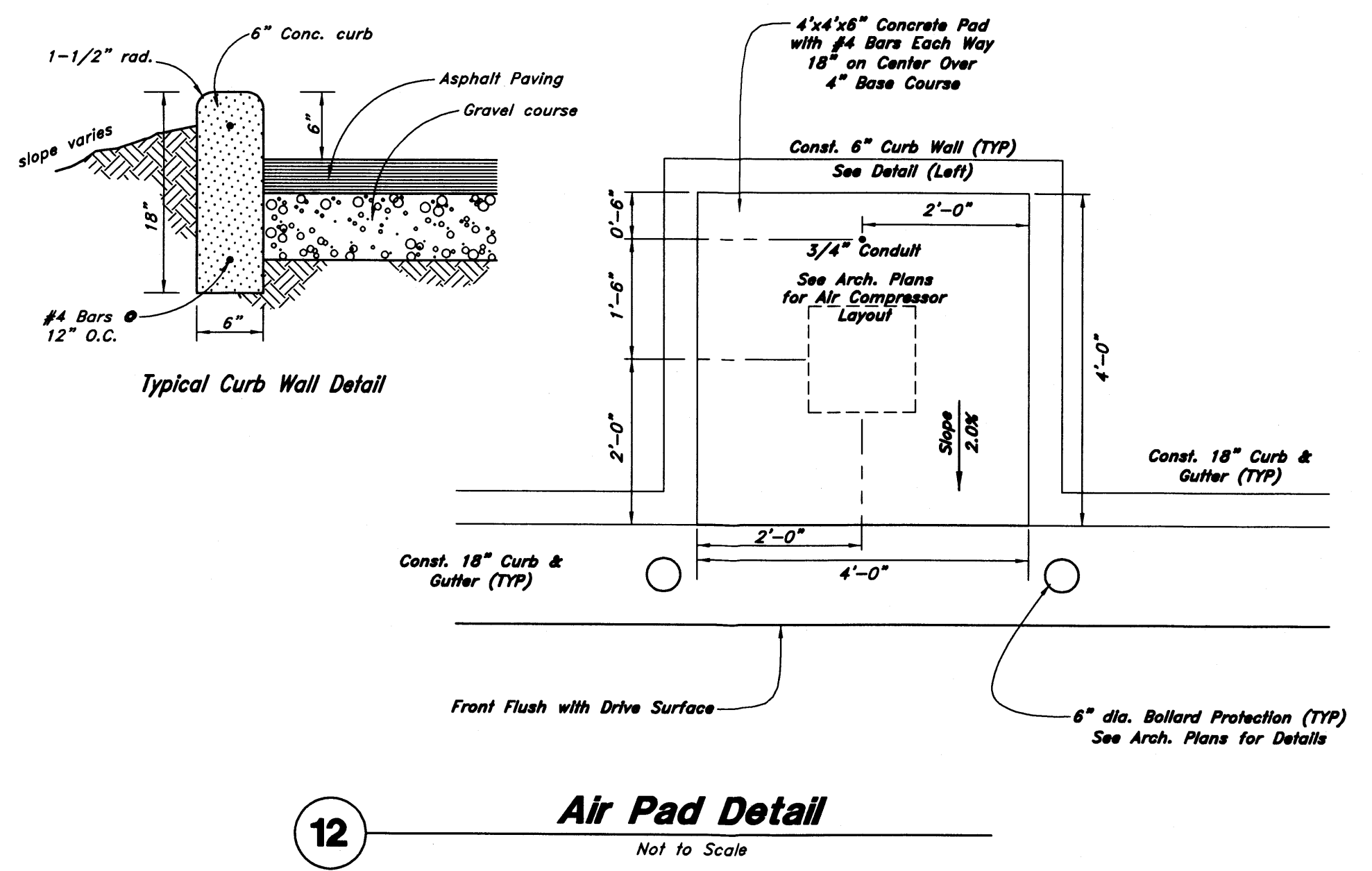
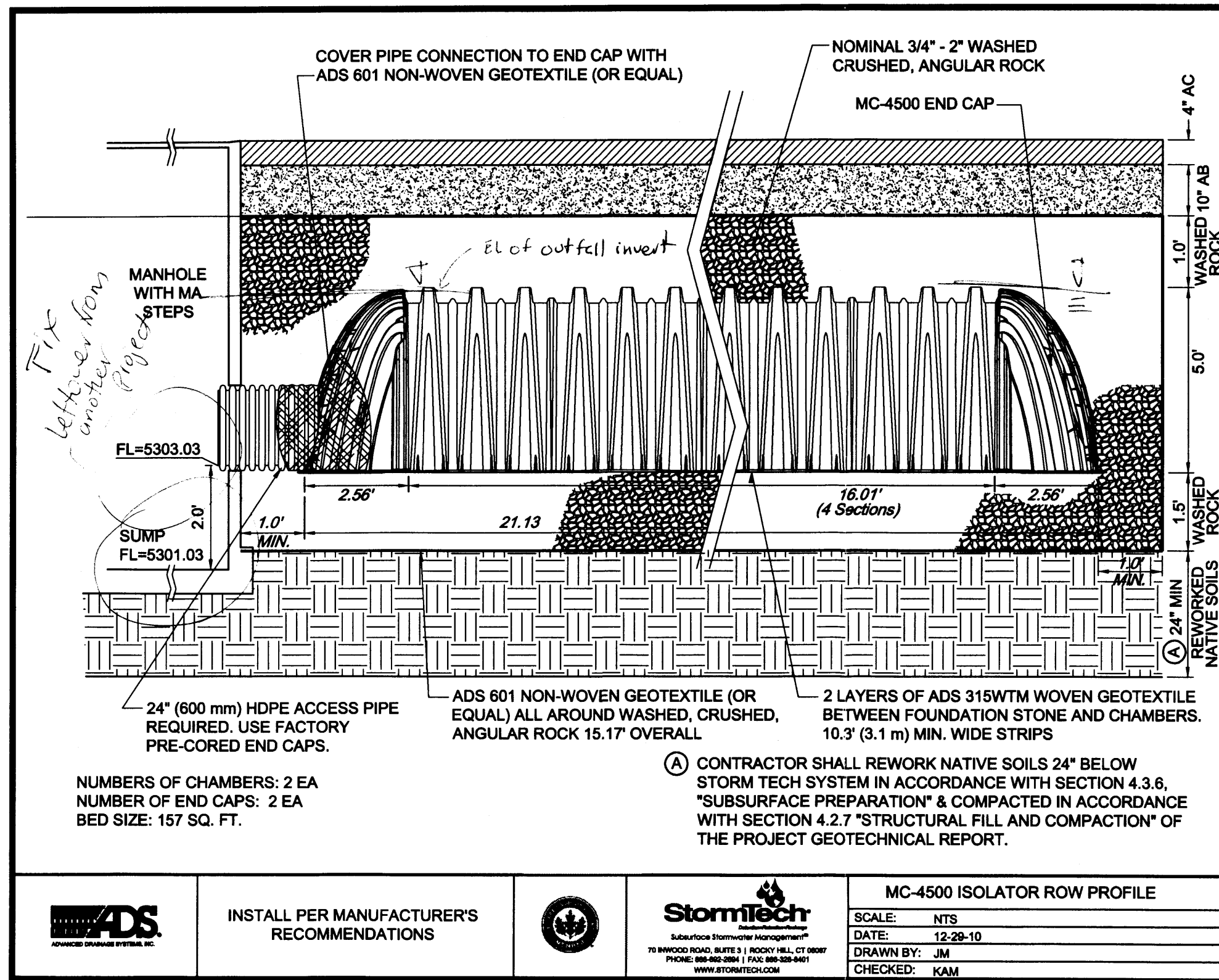
Smith's
FOOD & DRUG STORES
1550 South Redwood Road
Salt Lake City, Utah 84104
Telephone (801) 974-1400
#423
Albuquerque, New Mexico

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
501-321-6229 - alw@engineering.net

Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107

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LAND DEVELOPMENT SECTION

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Smith's

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2010 North Redwood Road, Salt Lake City, Utah 84116
(801) 321-0529 - anw@anw.com

Smith's #423 Fuel Center

5640 4th Street N.W.
Albuquerque, New Mexico 87107

DESIGNED BY: KR/AT
DRAFTED BY: AM/NM
CLIENT NAME: Smith's Food & Drug Stores
SMC423-DT

Smith's

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1550 South Redwood Road
Salt Lake City, Utah 84104
Telephone (801) 974-1400

#423

Albuquerque, New Mexico

16 Nov, 2015

SHEET NO.

C4.2

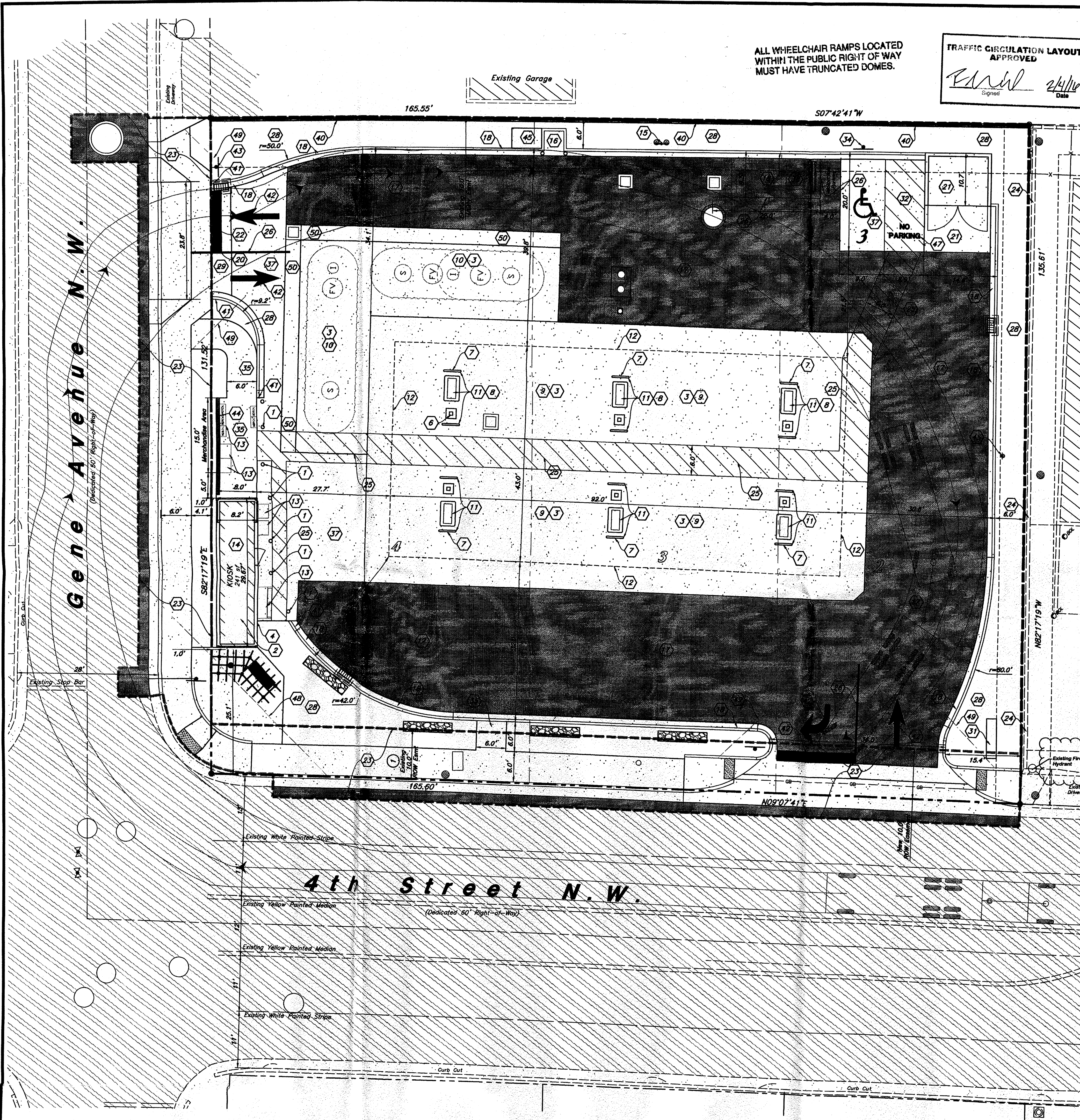
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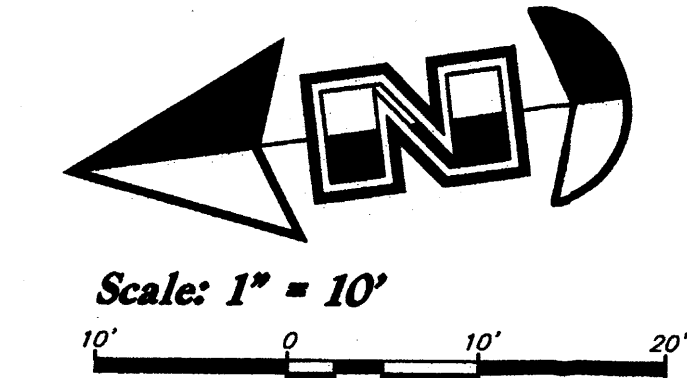
#423

Albuquerque, New Mexico



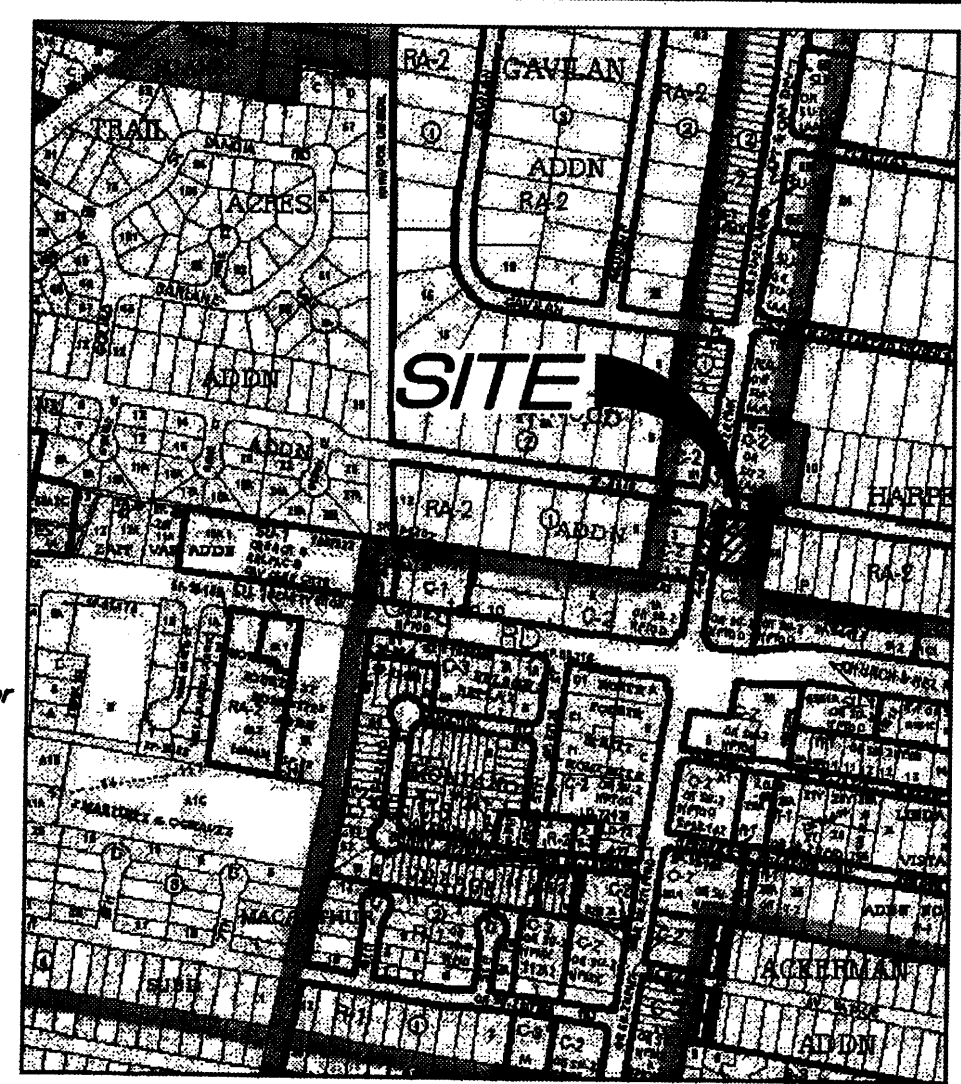
ALL WHEELCHAIR RAMPS LOCATED
WITHIN THE PUBLIC RIGHT OF WAY
MUST HAVE TRUNCATED DOMES.

TRAFFIC CIRCULATION LAYOUT
APPROVED
[Signature] 2/4/16
Signed Date



Site Construction Notes

- 1 Const. Bollard (18) (C4.3)
- 2 Install roof penetration in kiosk and weather proof for speaker/camera wire installation.
- 3 All concrete slabs shall be cleaned and sealed by Owner. Contractor shall coordinate with the Owner provided Contractor (White Mountain, Mike Letts 801-547-5278 or Romac Services 801-758-7315).
- 4 Provide caulking and painting as necessary to touch up exterior panels of the kiosk.
- 5 Provide a water tight seal between the kiosk foundation and canopy slab.
- 6 Const. Tank Vent Risers on Column (See Arch. Plans)
- 7 Paint all bollards and island forms with Contractor supplied Sherwin Williams Industrial Enamel BS42 Series Paint.
- 8 Install a diesel tee, plug, and fittings in the MPD sumps of the islands with diesel.
- 9 Construct 6" Thick Concrete Canopy Drive Slab w/ Rebar Reinforcing (See Arch. Plans)
- 10 Construct 8" Thick Concrete Tank Pad w/ Rebar Reinforcing. (See Arch. Plans for Section)
- 11 Contractor Shall Construct Dispenser Islands w/ Bollard Protection and Install Fuel Dispenser (See Arch. Plans)
- 12 Overhead Canopy System Supplied and installed by others. General Contractor to install Footings, Conduits, & Conductors per Drawings by Madison Industries
- 13 Retail Merchandise
- 14 General Contractor to Const. Floor and Foundation then Place Prefabricated Kiosk (See Arch. Plans)
- 15 Const. Remote Tank Vent Riser Modified for Separator Vent. (See Arch. Plans)
- 16 Const. 4'x4'x6" Concrete Pad for Air (12) (C4.2)
- 17 Const. Asphalt Paving (2) (C4.1)
- 18 Const. 18" Concrete Curb and Gutter (1) (C4.1)
- 19 General Contractor to install Mechanical Equipment Screen (Provided by Others)
- 20 Connect & Match Existing Grade
- 21 Dumpster Enclosure (18) (C4.3) (C4.4)
- 22 Provide Smooth Clean Edge, Sawcut Asphalt if Needed
- 23 Street Improvements & Work Order Limits; See Work Order #587880 Plans
- 24 Exist. Curb Wall to Remain
- 25 Pedestrian Warning Zone Striping (See Arch. Plans)
- 26 Const. 4" Paint Stripe (Color: White)
- 27 Const. 6" CMU Screen Wall (24) (C4.4)
- 28 Landscape (See Landscape Plan)
- 29 Const. 4" Waterway (8) (C4.1)
- 31 Pylon Sign by Separate Permit
- 32 Const. Accessible Striping per MUTCD & ICC/ANSI A117.1 (Latest Editions)
- 33 Const. Accessible Ramp per ICC/ANSI A117.1 (Latest Edition) (12) (C4.3)
- 34 Const. Accessible Sign & ICC/ANSI A117.1 (Latest Editions) (16) (C4.3)
- 35 Const. Conc. Sidewalk (3) (C4.1)
- 36 Const. Truncated Domes per ICC/ANSI A117.1-2003 (Latest Addition)
- 37 Const. 7" Thick Conc. Paving (9) (C4.2)
- 38 Const. Conc. Wheel Stop (9) (C4.2)
- 39 Street Improvement Plan (Offsite) Boundary
- 40 Const. 6' Screen Wall (1) (C5.1)
- 41 Const. curb Transition (15) (C4.3)
- 42 Const. Turn Arrow & Asphalt markings per MUTCD
- 43 Const. Stop Sign (R1-1) per MUTCD
- 44 Const. 4' CMU Screen Wall (22) (C4.4)
- 45 Const. Emergency Fuel Stop (10) (C3.0)
- 46 Const. 4'x6" Concrete Pad (10) (C3.0)
- 47 Const. "NO PARKING" painting in capital letters, each of which shall be at least one foot high and at least two inches wide, placed at rear of the parking space so as to be close to where an adjacent vehicles rear tire would be placed (Color: White), per 68-1-4.18 NMSA 1978
- 48 Sight Distance Triangle
Landscaping and signing 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. (See Landscape Plan)
- 49 Driveway Visibility
Landscaping and signing 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. (See Landscape Plan)
- 50 Const. 3" Waterway (8) (C4.1)



Vicinity Map
Zone Atlas Page F-14
5640 4th Street N.W.
Albuquerque, New Mexico 87107
Not to Scale

Legend

- Proposed Building
- Proposed Concrete
- Proposed Asphalt
- Proposed Concrete
- Existing Improvements
- Existing Asphalt
- Existing Concrete
- Existing Building
- Existing Power Pole
- Existing Power Pole w/ Guy

Legal Description

Lots numbered Two (2), Three (3), and Four (4) of the HARPER ADDITION, a Subdivision of a tract of land in School District No. 4, Albuquerque, Bernalillo County, New Mexico, as the same are shown and designated on the plat of said Subdivision, filed in the office of the County Clerk of Bernalillo County, New Mexico on December 28, 1945 in Volume 12, folio 79.

10' Easement granted for Street and Right-Of-Way Purposes And For Construction And Maintenance Of Sanitary Sewers And Water And Other Utility Lines And Installations filed December 8, 1953 in Book D 262, Page 539.

Site Data

Total Site Area = 22,111 s.f. (0.51 ac.)
Landscape Area Provided = 3,350 s.f. (15%)
Impervious Area Provided = 18,521 s.f. (84%)
Building Area = 241 s.f. (1%)
Canopy Area = 3,955 s.f.
Parking Required = 1 stalls
Parking Provided = 1 stall + 1 Accessible Stall
+ 1 Motorcycle Stall = 3 Total

General Site Notes:

1. Stalls designated as Accessible will require a painted Accessible symbol and sign. (See Details)
2. Fire lane markings and signs to be installed as directed by the Fire Marshal.
3. Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
4. All dimensions are to back of curb unless otherwise noted.
5. Const. curb transition at all points where curb abuts sidewalk, see detail.

New Mexico One Call, Inc.

NM ONE CALL

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FEB 03 2016

Professional Resources for Damage Prevention

1-800-321-ALERT

LAND DEVELOPMENT SECTION

Smith's

FOOD & DRUG STORES

1550 South Redwood Road
Salt Lake City, Utah 84104
Telephone (801) 974-1400

#423
Albuquerque, NM

Designed by: KR
Drafted by: JC
Client Name: Smith's Food & Drug Stores
SMC423-SP

ANDERSON WAHLEN & ASSOCIATES

2010 North Redwood Road, Salt Lake City, Utah 84116
801.521-8529 - awhengineering.net

Traffic Circulation / Site Plan

Smith's #423 Fuel Center

5640 4th Street N.W.
Albuquerque, New Mexico 87107

Feb 02, 2016

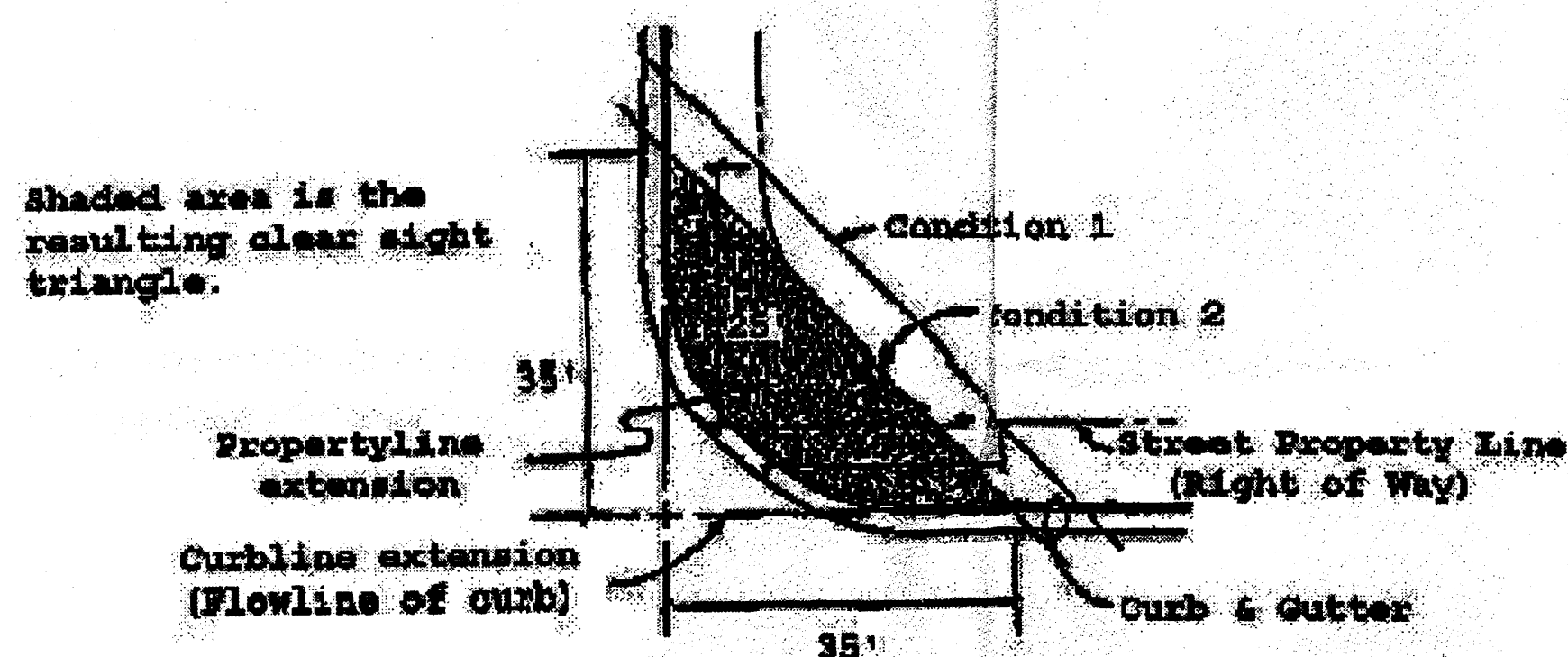
SHEET NO.

C1.1

Note:
Intersection Sight Distance

a. Intersection designs must provide for clear sight distances in the horizontal plane. Minimum intersection visibility should comply with the following specific language from Section 2-15 of the Traffic Code:

"No such obstruction to view between three and eight feet above the gutter line shall be placed or maintained within a triangular area at the street corner, which area is bounded by: (1) the street property lines of the corner lot and a line connecting points twenty-five feet distant from the intersection of the property lines of such lot, or (2) the curb lines of an intersection and a line connecting points thirty-five feet distant from the corner of the intersection and such corner is determined by projecting the curb lines out to a specific point, whichever is the lesser."



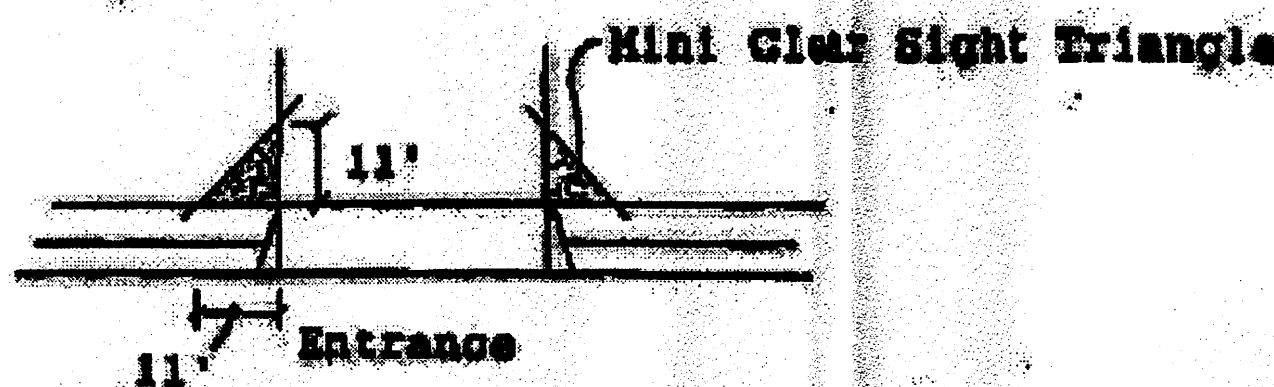
b. Intersections of local streets with major streets classified as collector or above shall not be located at or near horizontal curves without special evaluation of intersection sight distance. The location of an intersection on the "inside" of a horizontal curve is a situation that will typically result in intersection visibility problems. The location of any property lines, fences or other obstructions will need to be evaluated to ensure that the minimum sight distance is maintained. See Figure IX-40 p 762, A Policy on Geometric Design of Highways and Streets, AASHTO, or latest update.

24 Sight Distance Triangle

Not to Scale

Note:
Visibility for Driveways

Driveways need to have sufficient visibility for the motorist utilizing the entrance or exit to perform his maneuver safely. Visibility needs to be maintained in accordance with the AASHTO guidelines for intersection visibility (see Figure IX-40 p762) For all driveways on collector or arterial streets, the applicant must check the driveway visibility to determine whether these guidelines are met. Landscaping, fencing and/or berming will need to meet the requirements for driveway visibility. In addition, a mini-clear sight triangle needs to be maintained starting at the sidewalk and measuring 11 feet on a side as shown below



23 Driveway Visibility

Not to Scale

2012 IBC REBAR LAP SPLICE SCHEDULE FOR CONCRETE APPLICATIONS (ACI 318 - 05)						
BAR SIZE	NO.	DIA.	TYP. SPLICES		TOP BAR SPLICES	
			CLASS 'A'	CLASS 'B'	CLASS 'A'	CLASS 'B'
4	0.500	22"	29"	29"	38"	38"
5	0.625	28"	36"	36"	47"	47"
6	0.750	33"	43"	43"	56"	56"

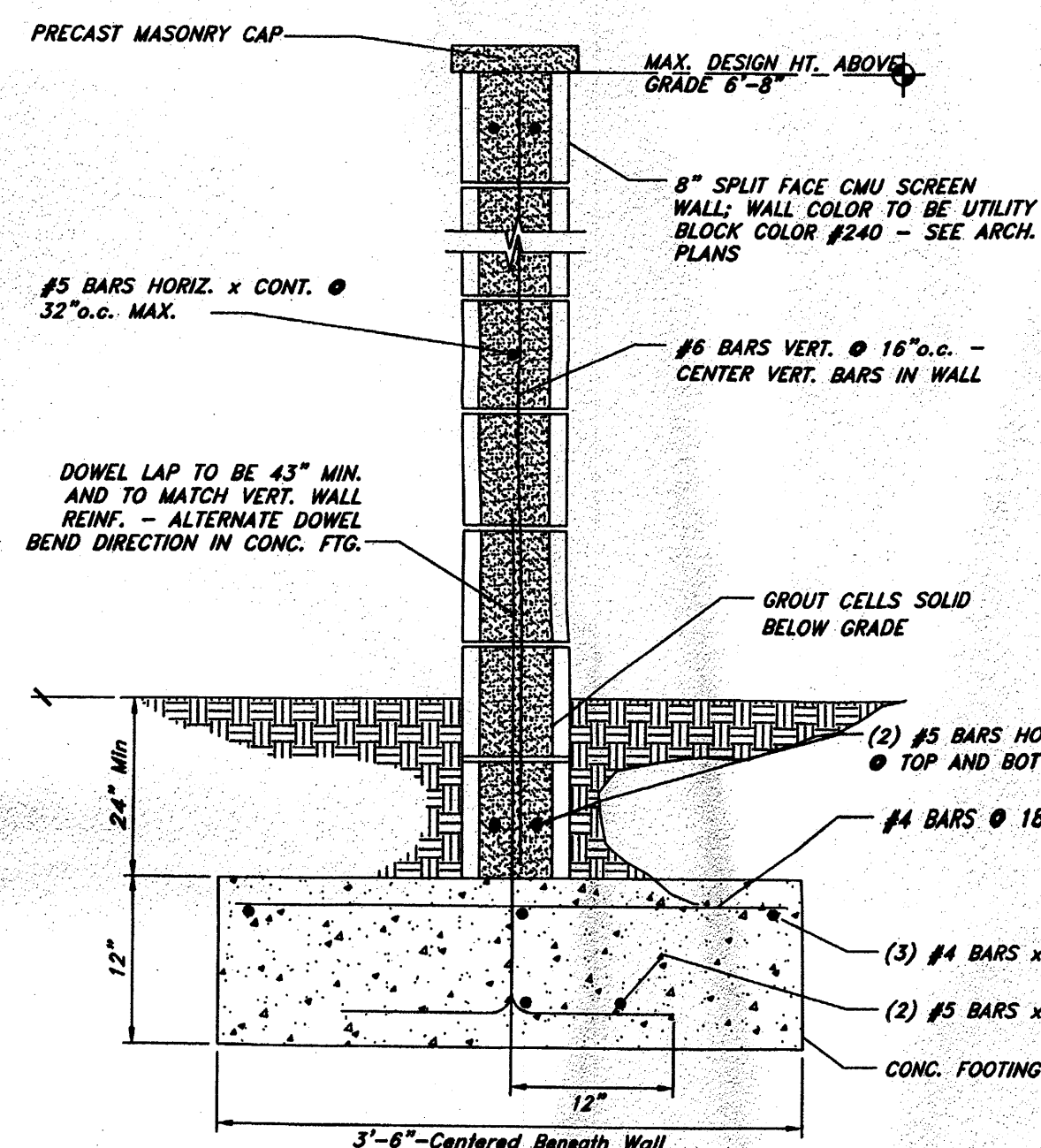
NOTES:
1. ALL LAP SPLICE LENGTHS ARE CLASS 'A' UNLESS NOTED OTHERWISE.
2. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITY. WHERE MECHANICAL COUPLERS ARE USED, STAGGER ADJACENT SPLICES A MINIMUM OF 24".
3. CONCRETE LAP LENGTHS SHALL BE INCREASED BY 20% WHERE EPOXY COATING IS USED.
4. TOP BAR IS ANY HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.

SCHEDULE

2012 IBC REBAR LAP SPLICE SCHEDULE FOR MASONRY APPLICATIONS (ACI 530 - 05) (USING f'm = 1500 PSI)						
BAR SIZE	NO.	DIA.	TYP. SPLICES		TOP BAR SPLICES	
			CLASS 'A'	CLASS 'B'	CLASS 'A'	CLASS 'B'
4	0.500	20"	29"	29"	38"	38"
5	0.625	25"	36"	36"	45"	45"
6	0.750	43"	43"	43"	54"	54"

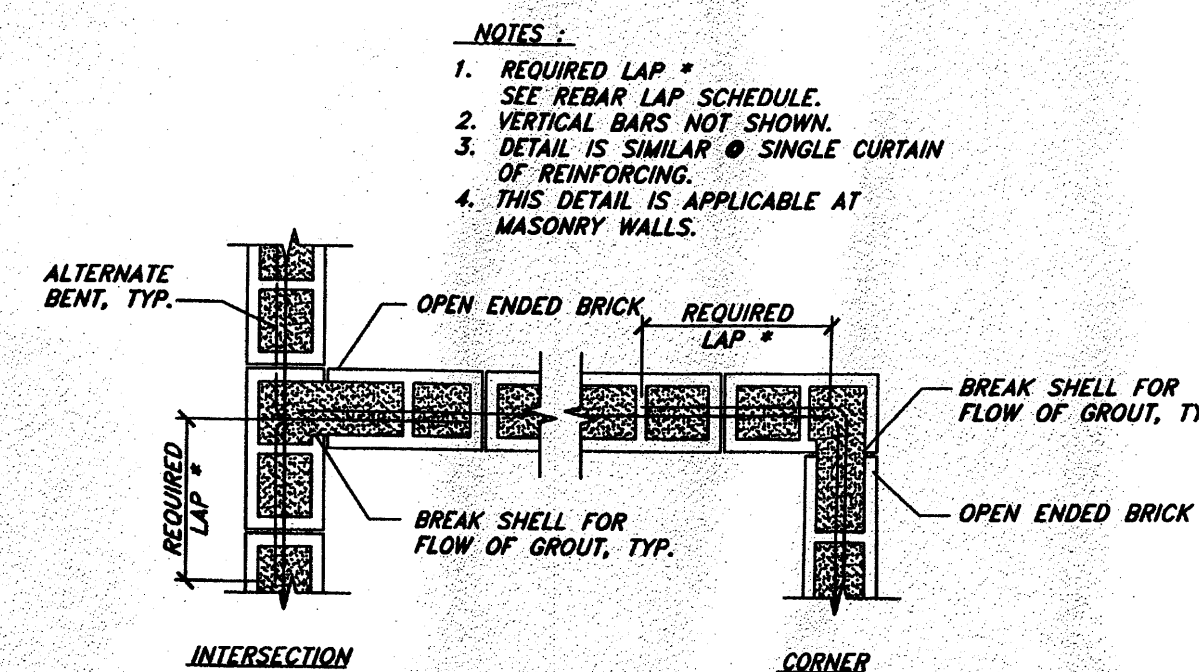
NOTES:
1. MECHANICAL COUPLERS ARE REQUIRED FOR BARS IN MASONRY AS NOTED IN THE SCHEDULE.
2. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN IN SCHEDULE.
3. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITIES.

SCHEDULE

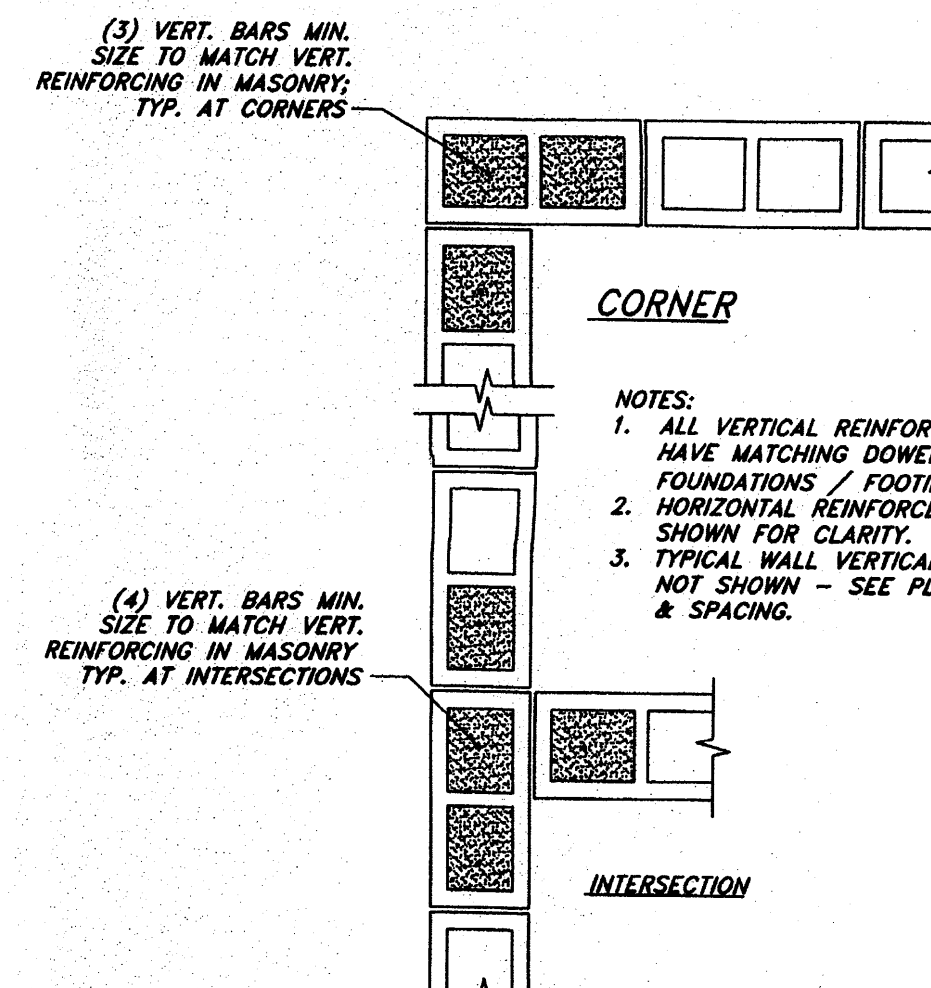


CMU RETAINING WALL NOTES:

- f'm = 1500 psi - USE TYPE 'S' MORTAR
- Fy = 60 ksi
- Fc = 3000 psi
- ALLOWABLE SOIL BEARING PRESSURE = 1500 psf (MIN.) - SEE SOILS REPORT
- MAX FROST DEPTH = 30" TO BOTTOM OF FOOTING - SEE SOILS REPORT FOR MORE INFO.
- MINIMUM COVER OVER TOP OF FOOTING = 24"
- MAXIMUM DESIGN CRITERIA FOR WIND SPEED = 110 mph EXPOSURE C
- MAXIMUM SDS FOR WALL DESIGN = 1.20
- ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED PER THE SOILS REPORT.
- ALL DOWELS AND REINFORCEMENT SHALL BE HELD IN PLACE PRIOR TO AND DURING CONCRETE AND / OR GROUT PLACEMENT.
- SEE TYPICAL DETAIL FOR STEPS IN THE SCREEN WALL.
- ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 109 AND CHAPTER 17 OF THE IBC.
- ALL VERTICAL BARS TO BE CENTERED IN CELLS.
- NOTE: HAVING A SITE SPECIFIC SOILS REPORT AND REDUCING THE WIND SPEEDS TO MEET LOCAL CODE REQUIREMENTS MAY RESULT IN REDUCED FOOTING SIZES.



TYPICAL REINFORCEMENT @ INTERSECTION OF CMU



TYPICAL VERTICAL REINFORCING

Screen & Dumpster Wall

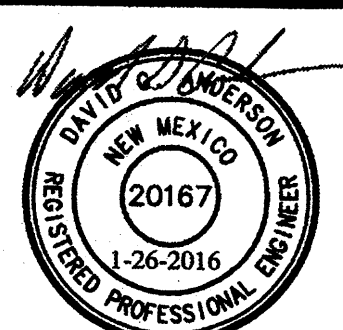
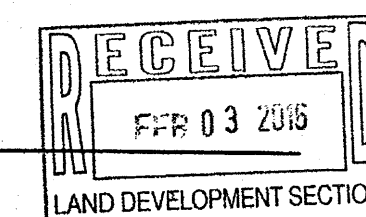
Not to Scale

New Mexico One Call, Inc.
NMOC
Professional Resources for Damage Prevention
1-800-321-ALERT

Smith's
FOOD & DRUG STORES
1550 South Redwood Road
Salt Lake City, Utah 84104
Telephone (801) 974-1400
#423
Albuquerque, New Mexico

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
801-521-6529 - awengineering.net

Details
Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107

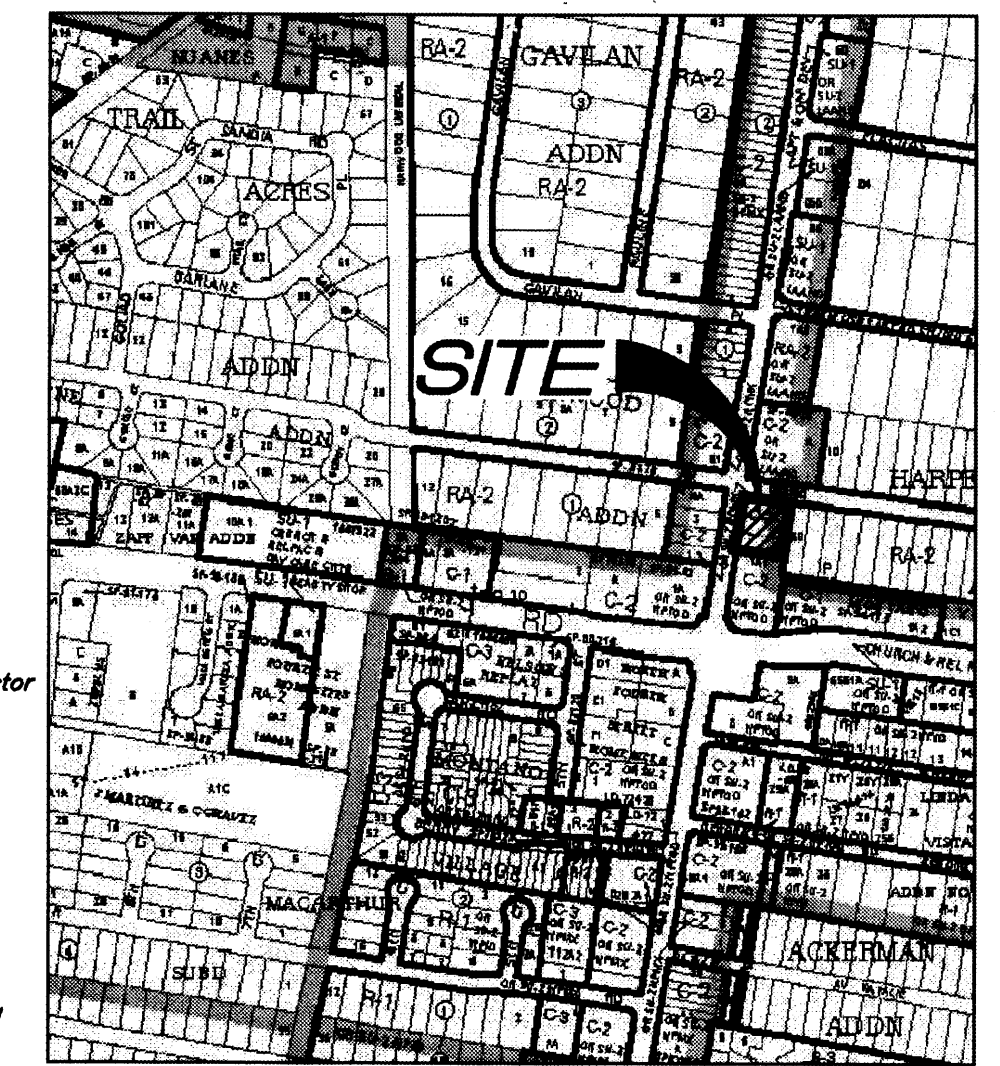
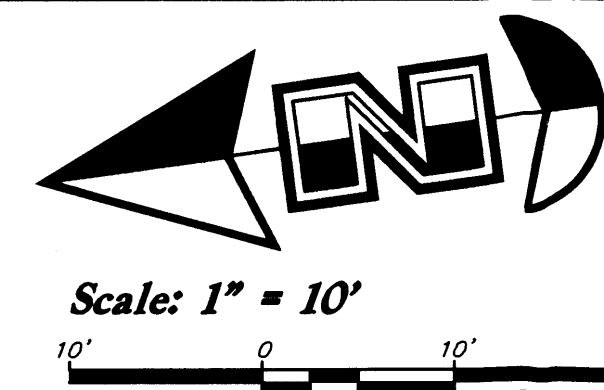


26 Jan, 2016

SHEET NO.
C4.4

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

TRAFFIC CIRCULATION LAYOUT
APPROVED
Enroll 2/4/16
Signed Date



Vicinity Map
Zone Atlas Page F-14
5640 4th Street N.W.
Albuquerque, New Mexico 87107
Not to Scale

Legend

Proposed Building

Proposed Curb & Gutter

Proposed Asphalt

Proposed Concrete

Existing Improvements

Existing Asphalt

Existing Concrete

Existing Building

Existing Power Pole

Existing Power Pole w/ Guy

Legal Description

Lots numbered Two (2), Three (3), and Four (4) of the HARPER ADDITION, a Subdivision of a tract of land in School District No. 4, Albuquerque, Bernalillo County, New Mexico, as the same are shown and designated on the plat of said Subdivision, filed in the office of the County Clerk of Bernalillo County, New Mexico on December 28, 1945 in Volume D, folio 79.

10' Easement granted for Street And Right-Of-Way Purposes And For Construction And Maintenance Of Sanitary Sewers And Water And Other Utility Lines And Installations filed December 8, 1953 in Book D 262, Page 538.

Site Data

Total Site Area = 22,111 s.f. (0.51 ac.)

Landscape Area Provided = 3,350 s.f. (15%)

Impervious Area Provided = 18,521 s.f. (84%)

Building Area = 241 s.f. (1%)

Canopy Area = 3,955 s.f.

Parking Required = 1 stalls

Parking Provided = 1 stall + 1 Accessible Stall
+ 1 Motorcycle Stall = 3 Total

General Site Notes:

1. Stalls designated as Accessible will require a painted Accessible symbol and sign. (See Details)
2. Fire lane markings and signs to be installed as directed by the Fire Marshall.
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4. All dimensions are to back of curb unless otherwise noted.
5. Const. curb transition at all points where curb abuts sidewalk, see detail.

New Mexico One Call, Inc.



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FOOD & DRUG STORES

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Telephone (801) 974-1400

#423
Albuquerque, NM

Designed by: KR
Drafted by: JC
Client Name:
Smith's Food & Drug Stores

SMC423-SP

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
801 921-6523 - awh@andersonwahl.com

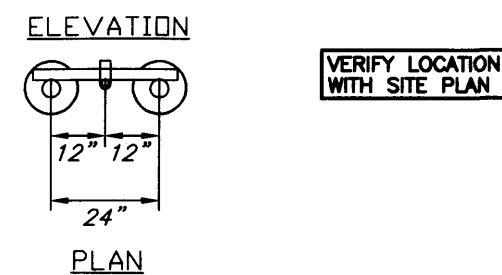
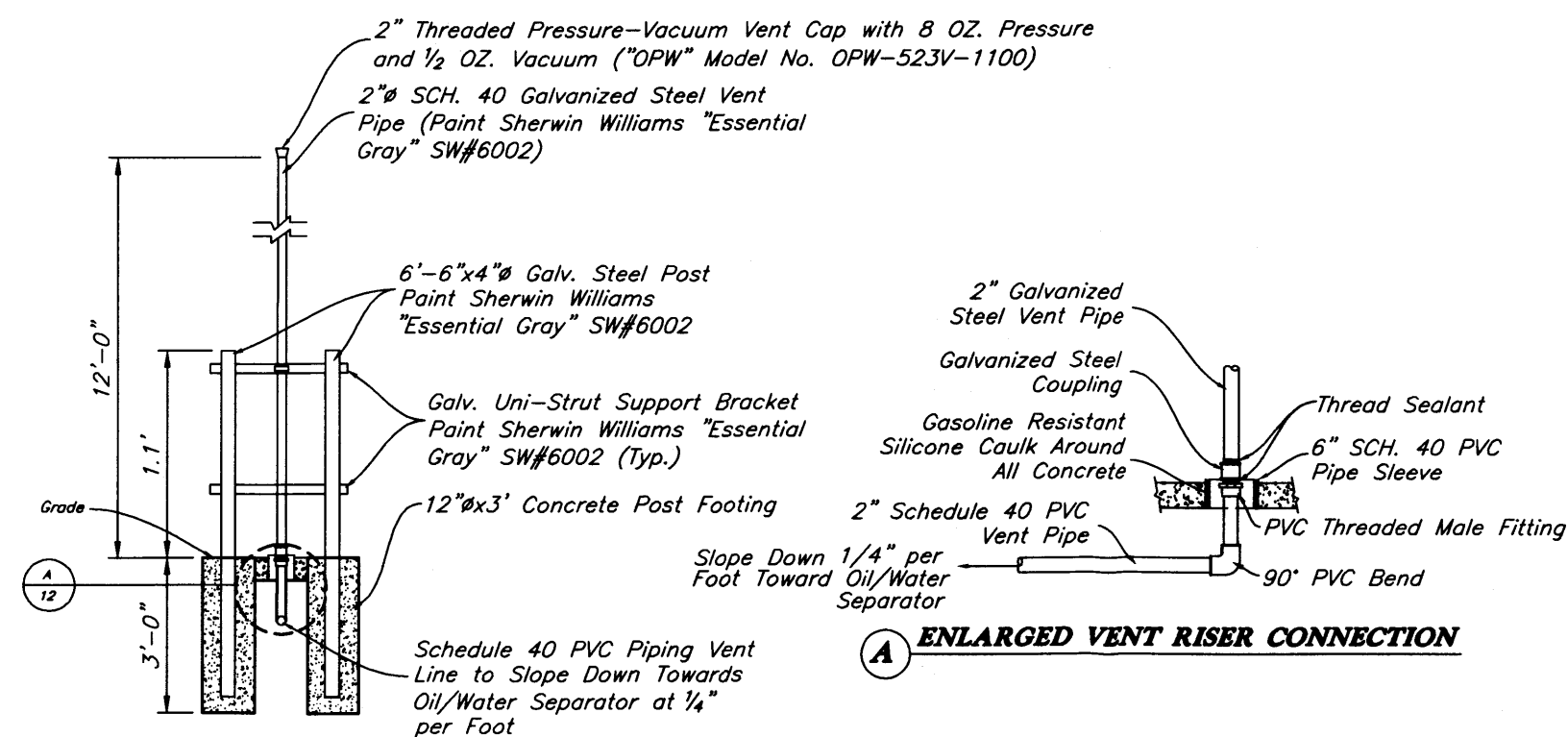
Traffic Circulation / Site Plan
Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107



Feb 02, 2016

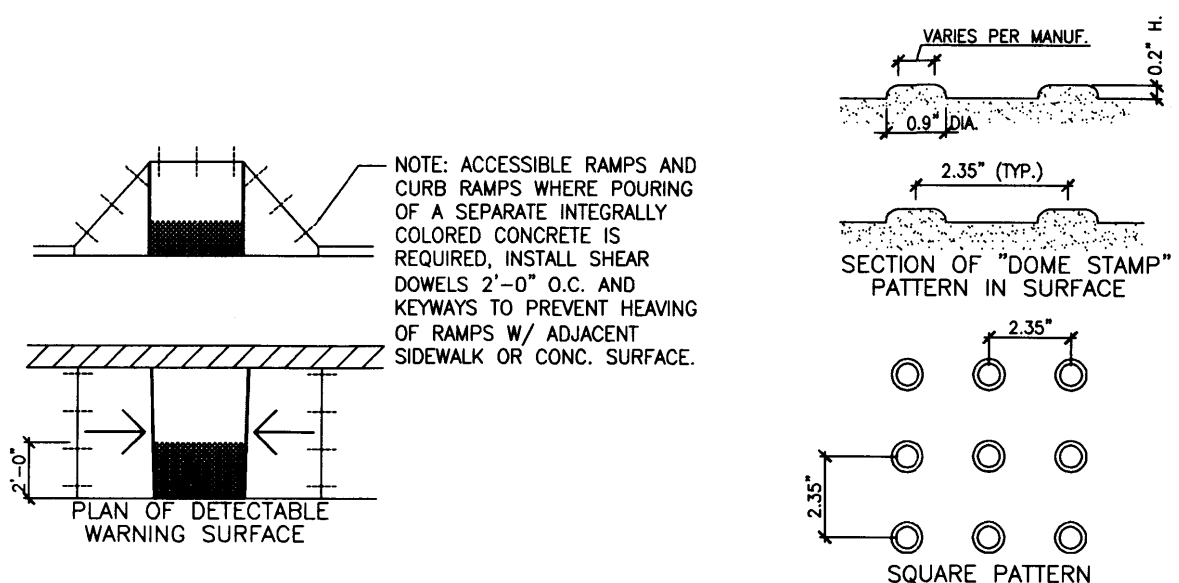
SHEET NO.

C1.1



2" Vent Riser for Oil/Water Separator & Tank Vent Riser

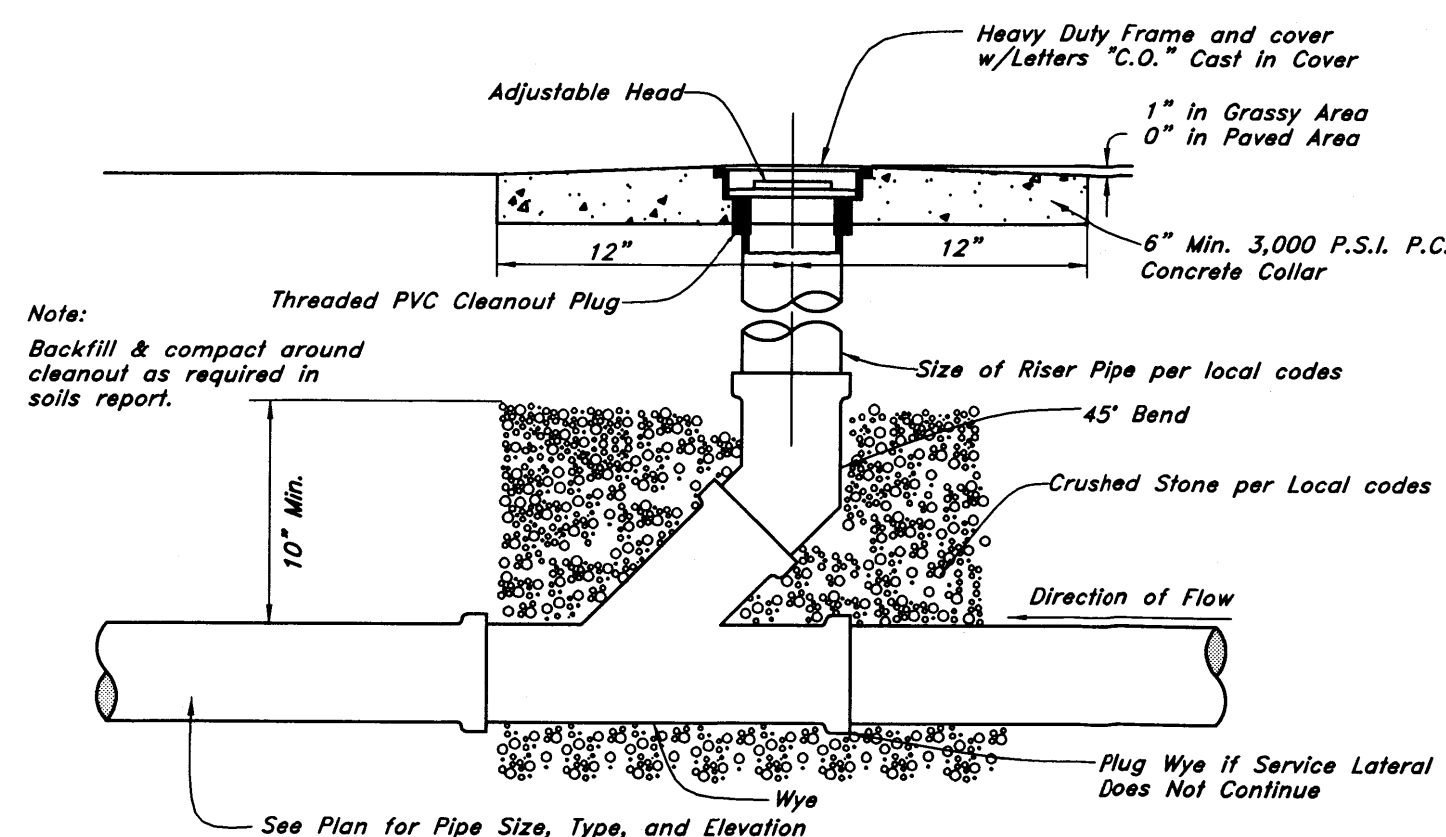
21



PLAN OF "DOME STAMP" PATTERN IN SURFACE.
CURB RAMPS MUST HAVE A DETECTABLE WARNING FEATURE. THE DETECTABLE SURFACE MUST CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES. THE TEXTURE OF THE DETECTABLE WARNING FEATURE MUST CONTRAST WITH THE SURROUNDING SURFACES (EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT). SEE ABOVE.

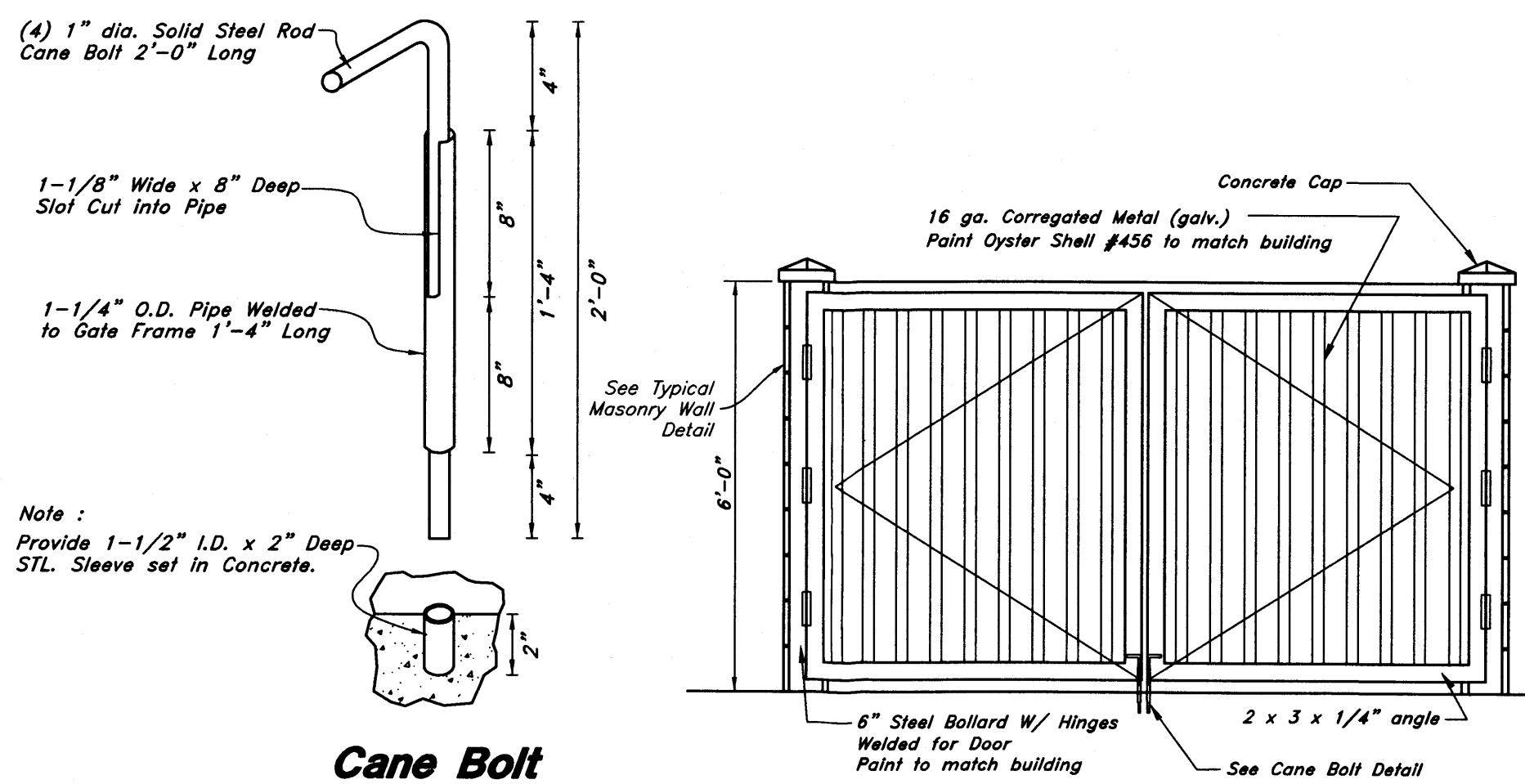
Truncated Dome Detail

20



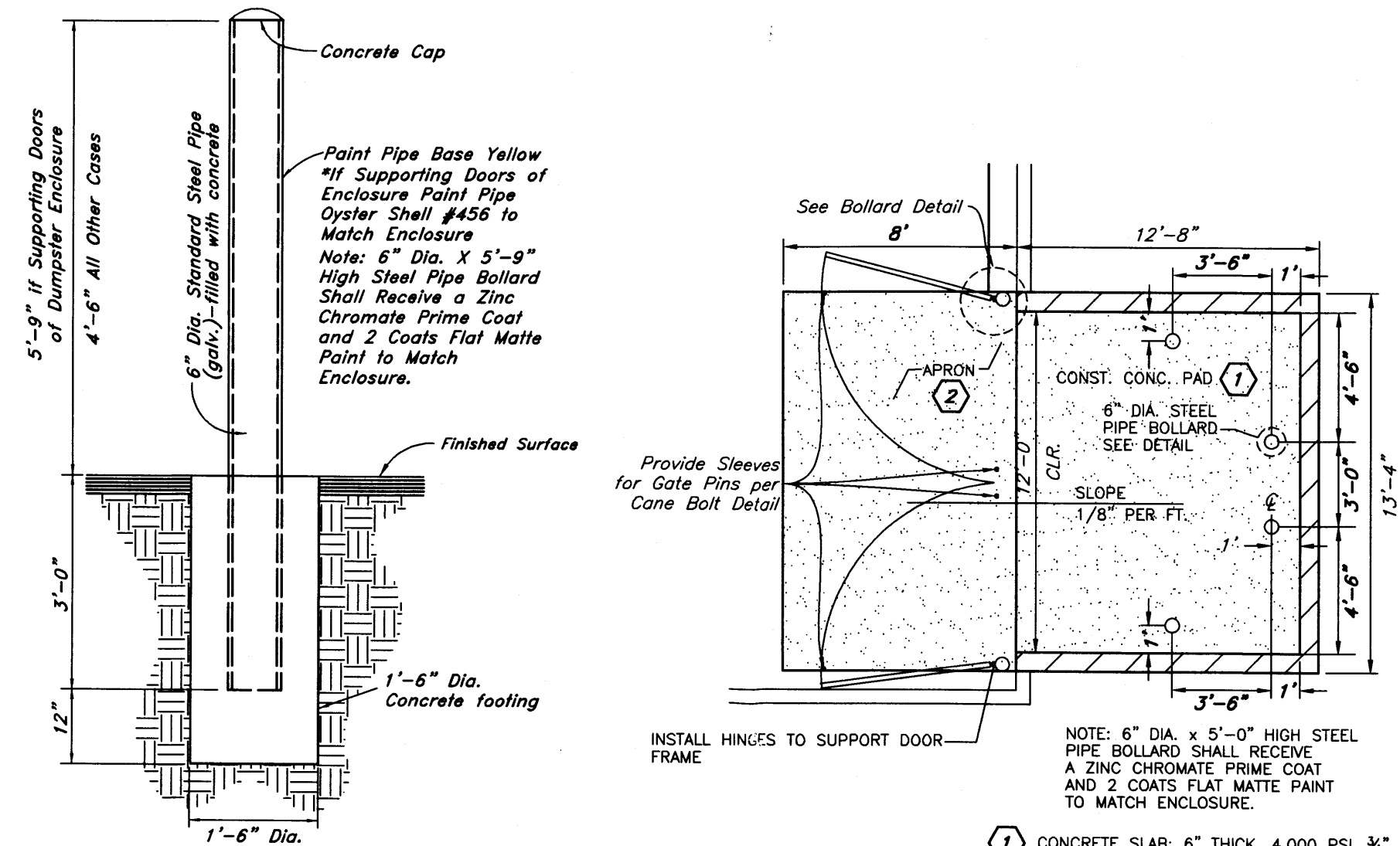
Cleanout Detail

19



Cane Bolt

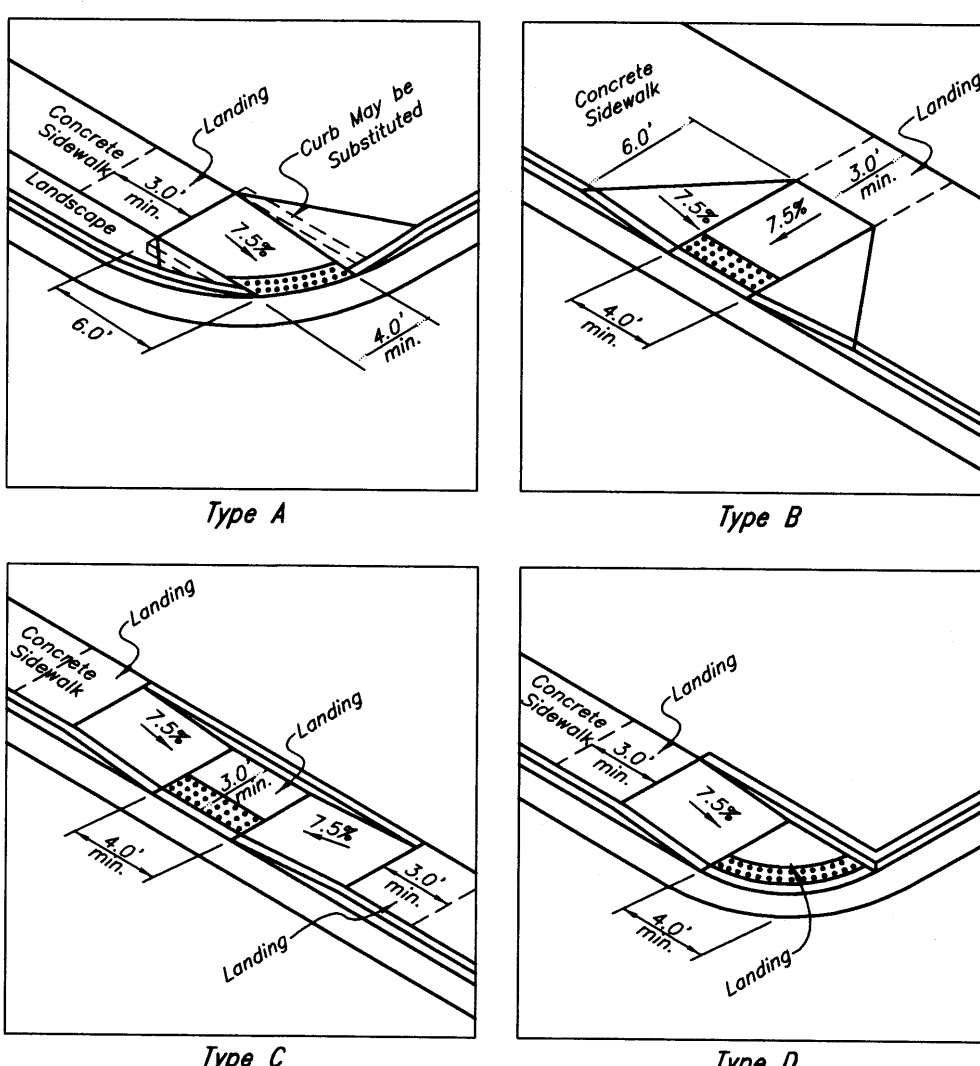
Dumpster Elevation



Bollard Detail

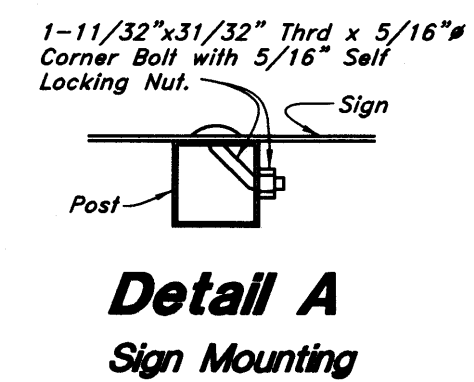
Trash Enclosure

18

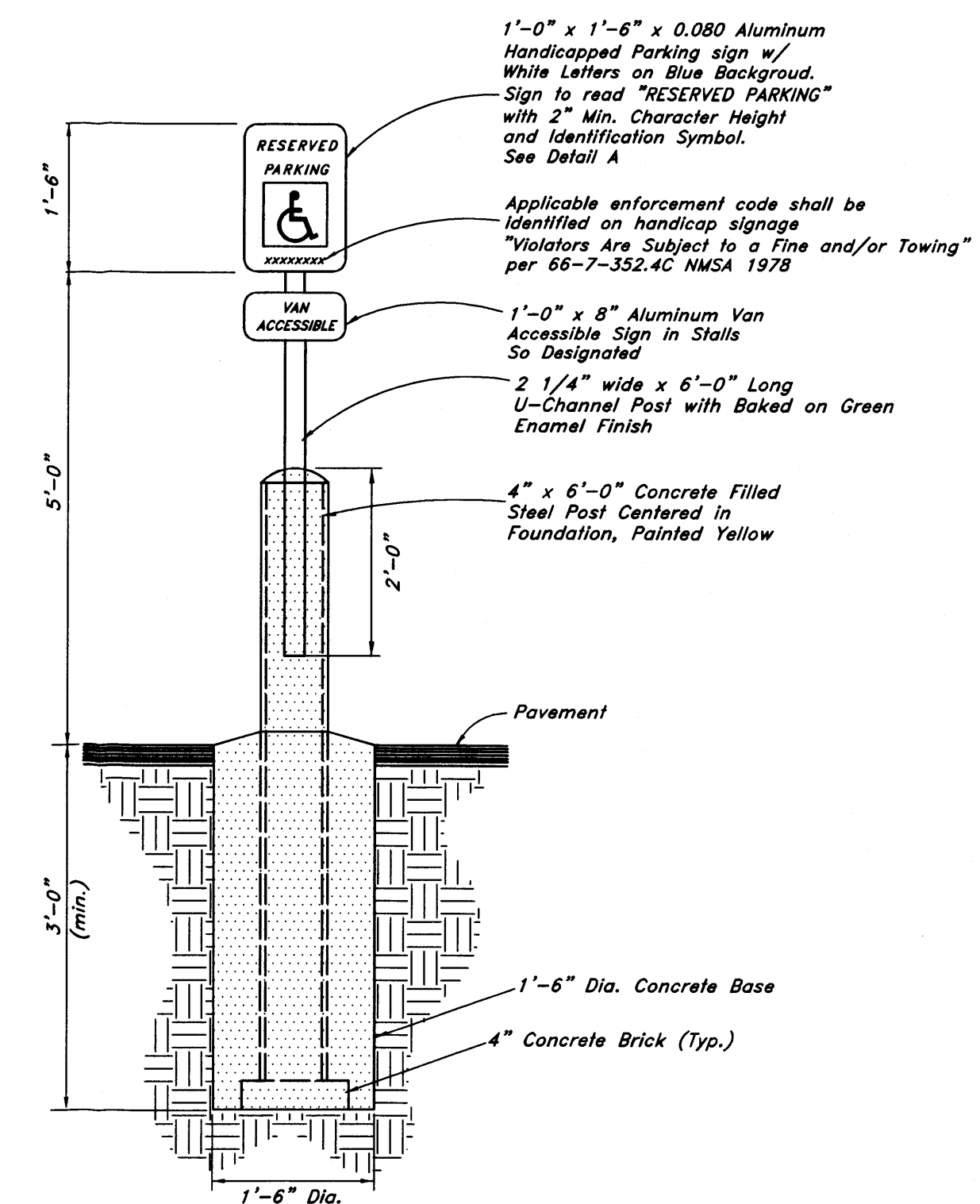


Typical Curb Ramp Detail

17

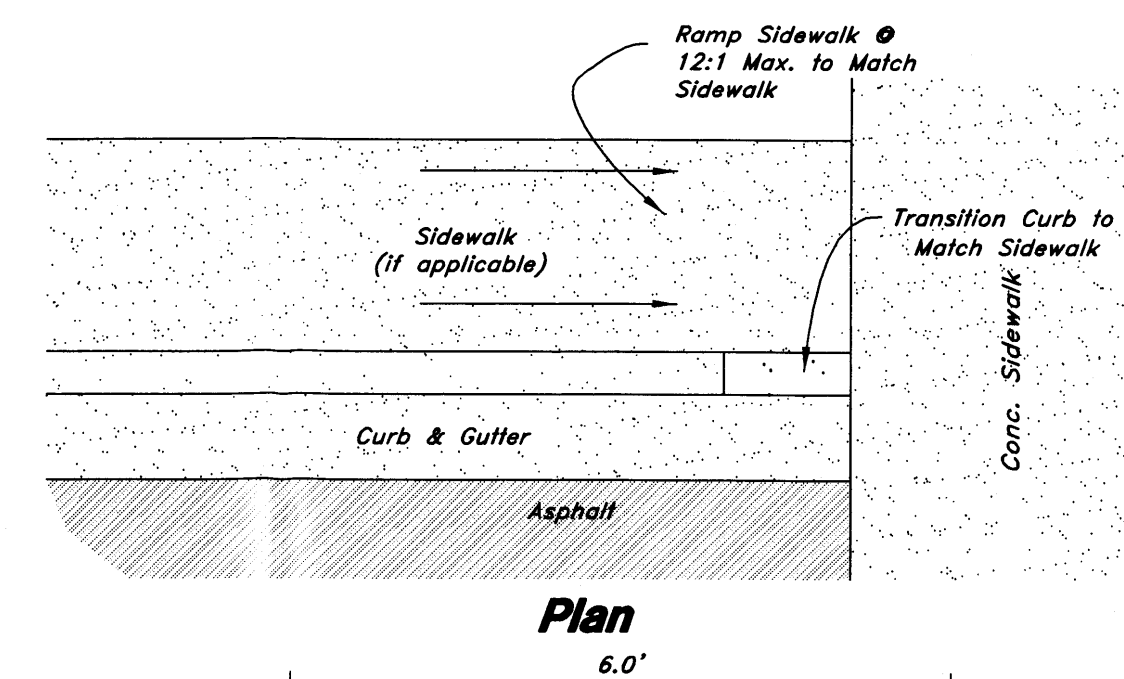


**Detail A
Sign Mounting**

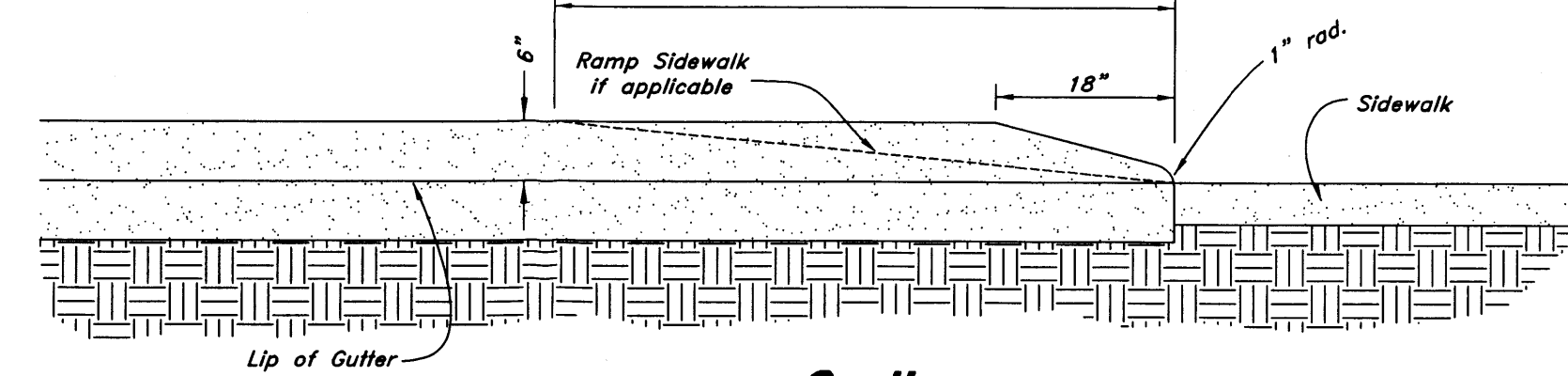


ADA Parking Sign w/Bollard

16



Plan



Section

Curb Transition

15

New Mexico One Call, Inc.
NMOC
Professional Resources for Damage Prevention
1-800-321-ALERT

Smith's
FOOD & DRUG STORES
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Telephone (801) 974-1400

#423

Albuquerque, New Mexico

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
801-521-8529 - alw@andersonwahlen.net

Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107

DAVID R. ANDERSON
REGISTERED PROFESSIONAL ENGINEER
20167
1-26-2016

26 Jan, 2016

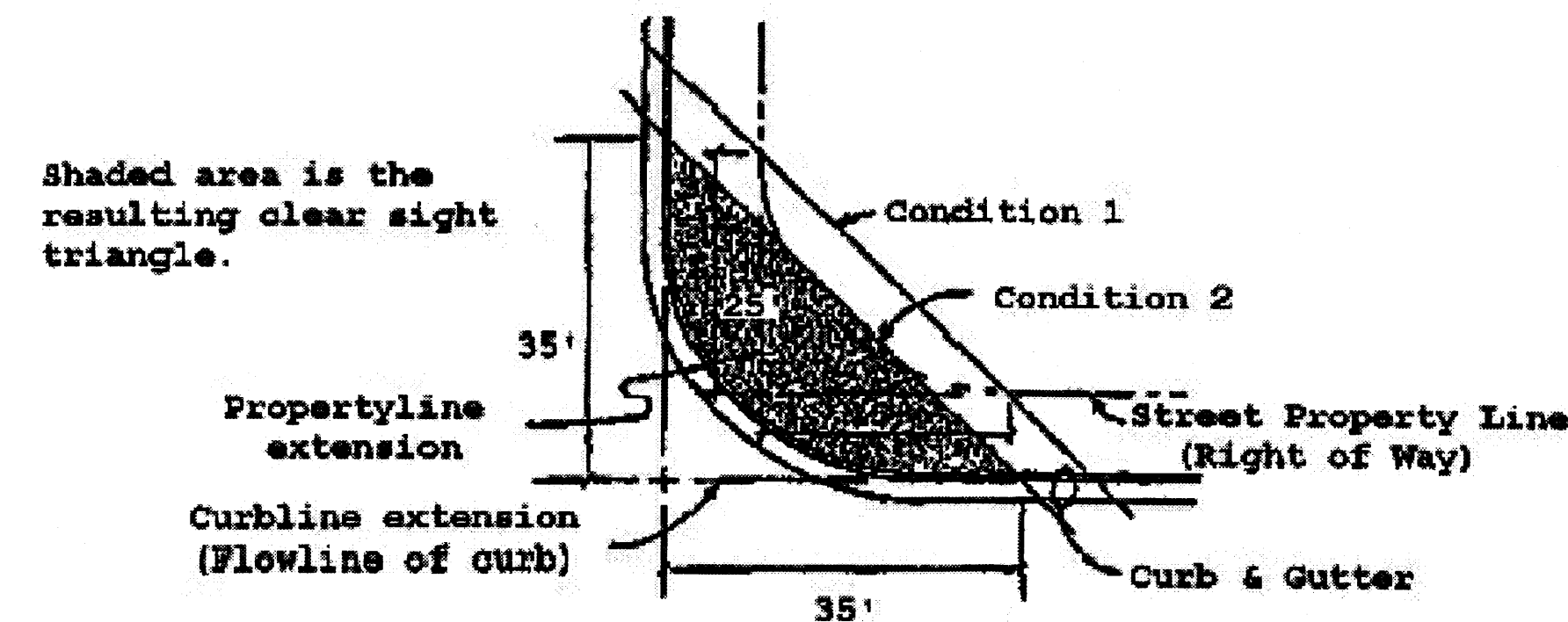
SHEET NO.

C4.3

Note:
Intersection Sight Distance

a. Intersection designs must provide for clear sight distances in the horizontal plane. Minimum intersection visibility should comply with the following specific language from Section 2-15 of the Traffic Code:

"No such obstruction to view between three and eight feet above the gutter line shall be placed or maintained within a triangular area at the street corner, which area is bounded by: (1) the street property lines of the corner lot and a line connecting points twenty-five feet distant from the intersection of the property lines of such lot, or (2) the curb lines of an intersection and a line connecting points thirty-five feet distant from the corner of the intersection and such corner is determined by projecting the curb lines out to a specific point, whichever is the lesser."



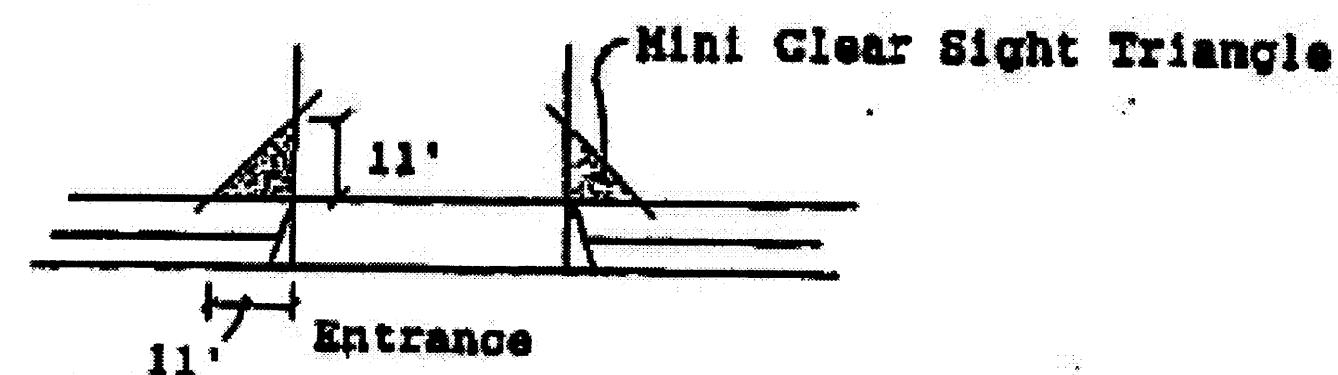
b. Intersections of local streets with major streets classified as collector or above shall not be located at or near horizontal curves without special evaluation of intersection sight distance. The location of an intersection on the "inside" of a horizontal curve is a situation that will typically result in intersection visibility problems. The location of any property lines, fences or other obstructions will need to be evaluated to ensure that the minimum sight distance is maintained. See figure IX-40 p 762, A Policy on Geometric Design of Highways and Streets, AASHTO, or latest update.

24 Sight Distance Triangle

Not to Scale

Note:
Visibility for Driveways

Driveways need to have sufficient visibility for the motorist utilizing the entrance or exit to perform his maneuver safely. Visibility needs to be maintained in accordance with the AASHTO guidelines for intersection visibility (see figure IX-40 p762) For all driveways on collector or arterial streets, the applicant must check the driveway visibility to determine whether these guidelines are met. Landscaping, fencing and/or berming will need to meet the requirements for driveway visibility. In addition, a mini-clear sight triangle needs to be maintained starting at the sidewalk and measuring 11 feet on a side as shown below



23 Driveway Visibility

Not to Scale

2012 IBC REBAR LAP SPLICE SCHEDULE FOR CONCRETE APPLICATIONS (ACI 318 - 05)					
BAR SIZE NO.	DIA.	TYP. SPLICES CLASS 'A'		TOP BAR SPLICES CLASS 'A'	
		CLASS 'B'	CLASS 'A'	CLASS 'B'	CLASS 'A'
4	0.500	22"	29"	29"	38"
5	0.625	28"	36"	36"	47"
6	0.750	33"	43"	43"	56"

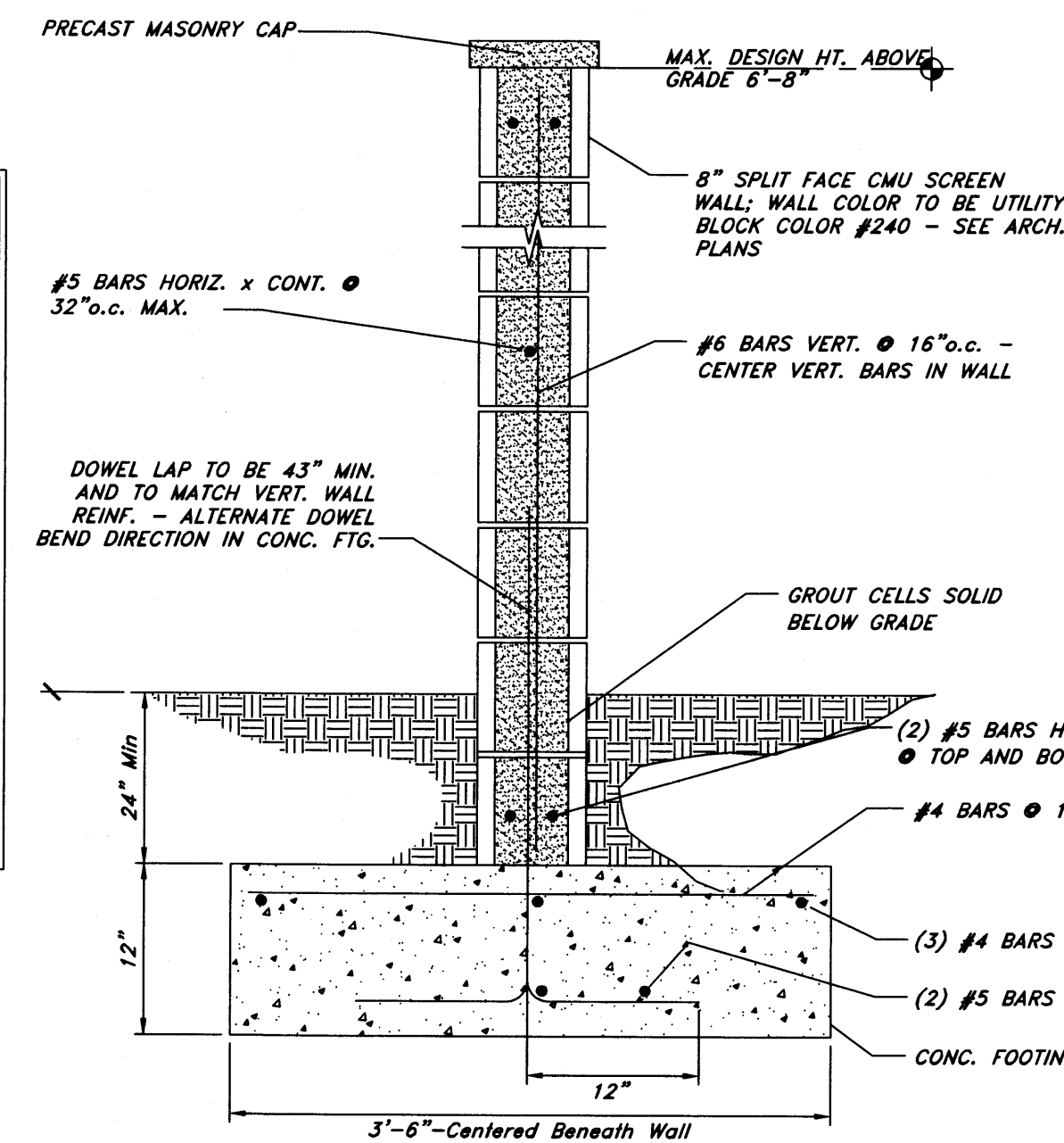
NOTES:
1. ALL LAP SPLICE LENGTHS ARE CLASS 'A' UNLESS NOTED OTHERWISE.
2. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITY. WHERE MECHANICAL COUPLERS ARE USED, STAGGER ADJACENT SPLICES A MINIMUM OF 24".
3. CONCRETE LAP LENGTHS SHALL BE INCREASED BY 50% WHERE EPOXY COATING IS USED.
4. TOP BAR IS ANY HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.

SCHEDULE

2012 IBC REBAR LAP SPLICE SCHEDULE FOR MASONRY APPLICATIONS (ACI 530 - 05) (USING f'm = 1500 PSI)					
(1) BAR AT C. OF WALL (VERT. OR HORIZ.)			BARS AT EACH FACE OF WALL (VERTICAL OR HORIZONTAL)		
BAR SIZE NO.	DIA.	8" WALL	BAR SIZE NO.	DIA.	8" WALL
4	0.500	20"	4	0.500	28"
5	0.625	25"	5	0.625	45"
6	0.750	43"	6	0.750	54"

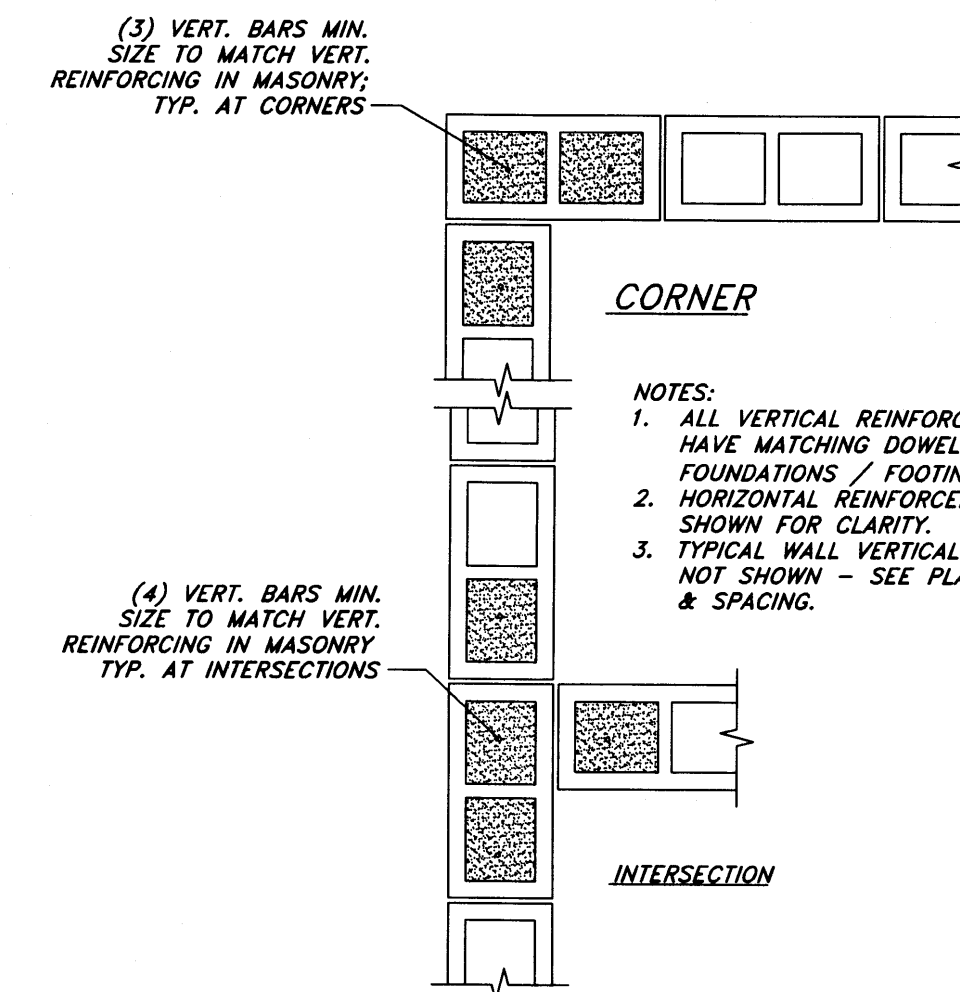
NOTES:
1. MECHANICAL COUPLERS ARE REQUIRED FOR BARS IN MASONRY AS NOTED IN THE SCHEDULE.
2. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN IN SCHEDULE.
3. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITIES.

SCHEDULE

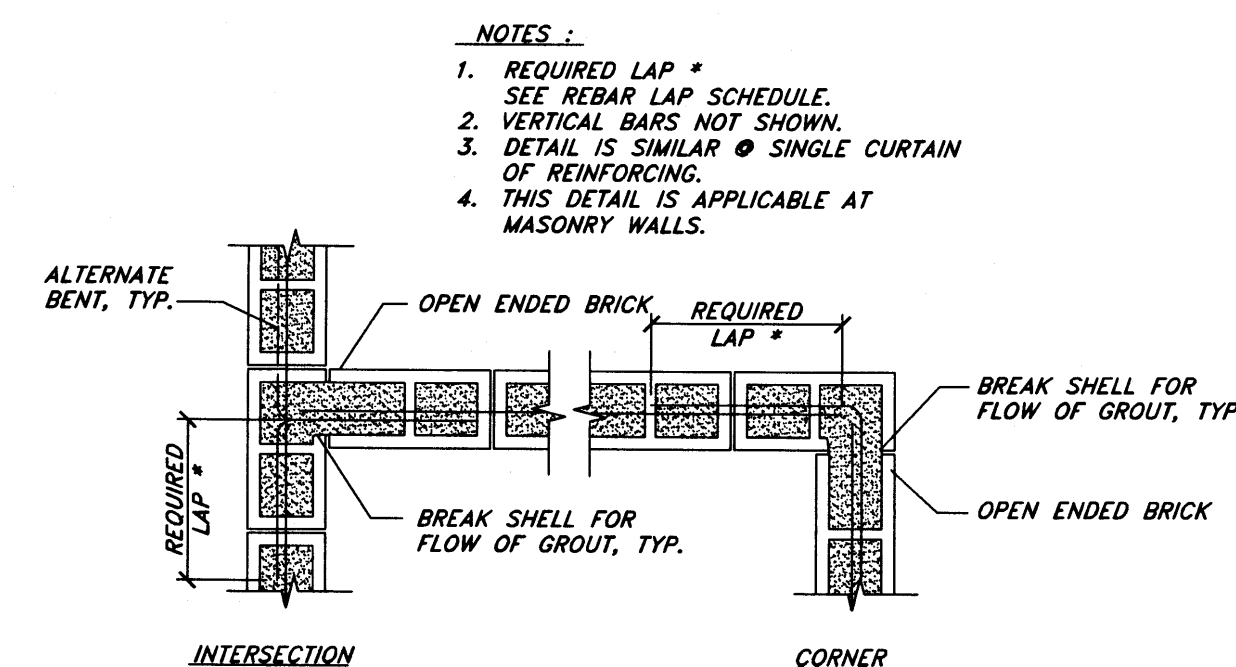


CMU RETAINING WALL NOTES:

- f'm = 1500 psi - USE TYPE 'S' MORTAR
- Fy = 60 ksi
- F'c = 3000 psi
- ALLOWABLE SOIL BEARING PRESSURE = 1500 psf (MIN.) - SEE SOILS REPORT
- MAX FROST DEPTH = 30" TO BOTTOM OF FOOTING - SEE SOILS REPORT FOR MORE INFO.
- MINIMUM COVER OVER TOP OF FOOTING = 24"
- MAXIMUM DESIGN CRITERIA FOR WIND SPEED = 110 mph EXPOSURE C
- MAXIMUM SDS FOR WALL DESIGN = 1.20
- ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED PER THE SOILS REPORT.
- ALL DOWELS AND REINFORCEMENT SHALL BE HELD IN PLACE PRIOR TO AND DURING CONCRETE AND / OR GROUT PLACEMENT.
- SEE TYPICAL DETAIL FOR STEPS IN THE SCREEN WALL.
- ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 109 AND CHAPTER 17 OF THE IBC.
- ALL VERTICAL BARS TO BE CENTERED IN CELLS.
- NOTE: HAVING A SITE SPECIFIC SOILS REPORT AND REDUCING THE WIND SPEEDS TO MEET LOCAL CODE REQUIREMENTS MAY RESULT IN REDUCED FOOTING SIZES.



TYPICAL VERTICAL REINFORCING



TYPICAL REINFORCEMENT @ INTERSECTION OF CMU

Screen & Dumpster Wall

Not to Scale

New Mexico One Call, Inc.
NMOC
Professional Resources for Damage Prevention
1-800-321-ALERT

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FOOD & DRUG STORES
1550 South Redwood Road
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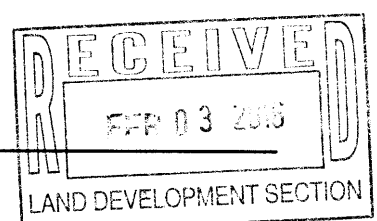
#423

Albuquerque, New Mexico

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
BO 321-6829 - Allwright@amw.net

Smith's #423 Fuel Center
5640 4th Street N.W.
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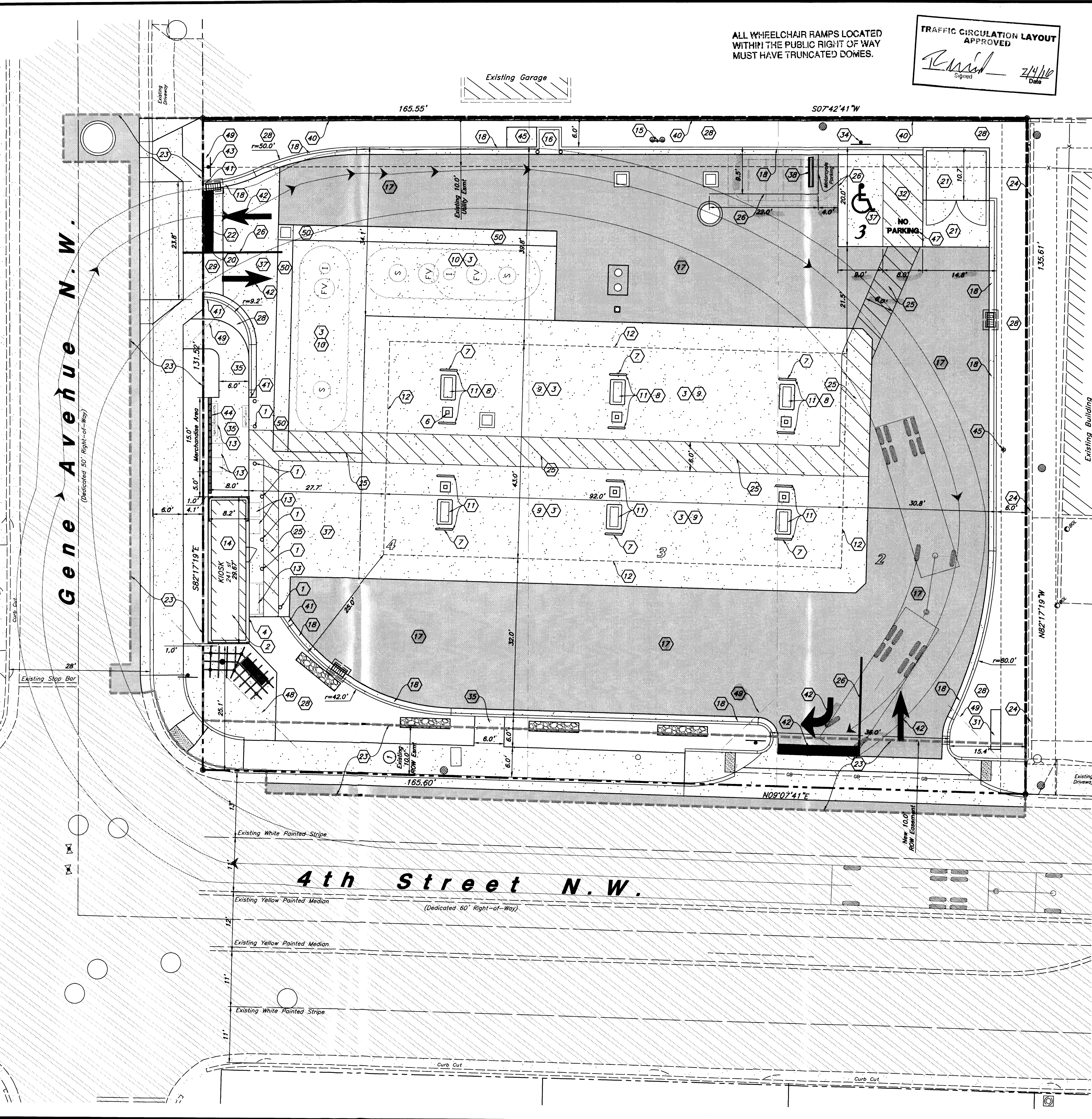
Details



26 Jan, 2016

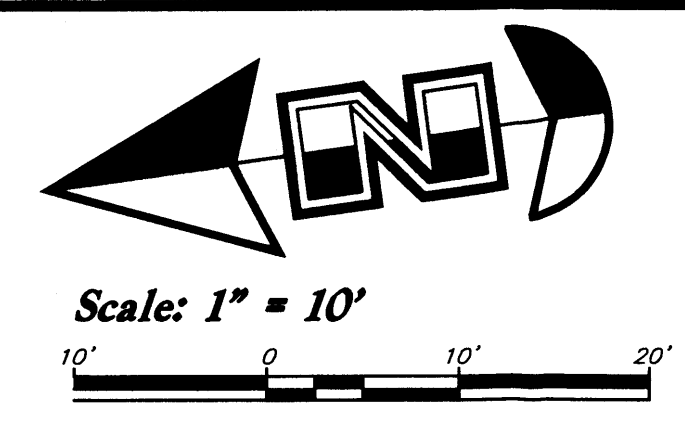
SHEET NO.

C4.4



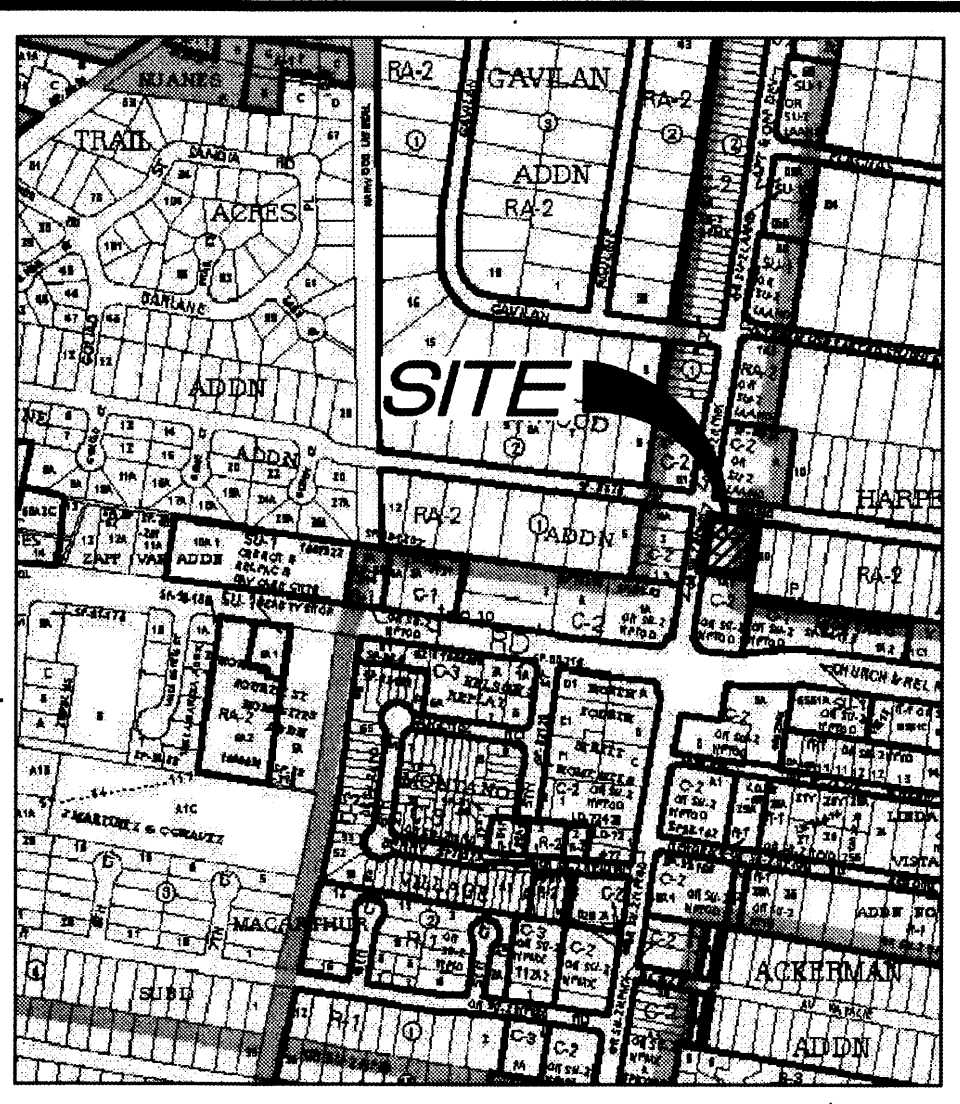
ALL WHEELCHAIR RAMPS LOCATED WITHIN THE PUBLIC RIGHT OF WAY MUST HAVE TRUNCATED DOMES.

TRAFFIC CIRCULATION LAYOUT APPROVED
Signed: [Signature] Date: 2/14/16



Site Construction Notes

1. Const. Bollard (18) (C4.3)
2. Install roof penetration in kiosk and weather proof for speaker/camera wire installation.
3. All concrete slabs shall be cleaned and sealed by Owner. Contractor shall coordinate with the Owner provided Contractor (White Mountain, Mike Letts 801-547-9278 or Romac Services 801-759-7315).
4. Provide caulking and painting as necessary to touch up exterior panels of the kiosk.
5. Provide a water tight seal between the kiosk foundation and canopy slab.
6. Const. Tank Vent Risers on Column (See Arch. Plans)
7. Paint all bollards and island forms with Contractor supplied Sherwin Williams Industrial Enamel B542 Series Paint.
8. Install a diesel tee, plug, and fittings in the MPD sumps of the islands with diesel.
9. Construct 6" Thick Concrete Canopy Drive Slab w/ Rebar Reinforcing (See Arch. Plans)
10. Construct 8" Thick Concrete Tank Pad w/ Rebar Reinforcing (See Arch. Plans for Section)
11. Contractor Shall Construct Dispenser Islands w/ Bollard Protection and Install Fuel Dispenser (See Arch. Plans)
12. Overhead Canopy System Supplied and Installed by others. General Contractor to install footings, conduits, & conductors per Drawings by Madison Industries
13. Retail Merchandisers
14. General Contractor to Const. Floor and Foundation then Place Prefabricated Kiosk (See Arch. Plans)
15. Const. Remote Tank Vent Riser Modified for Separator Vent. (See Arch. Plans)
16. Const. 4"x4"x6" Concrete Pad for Air
17. Const. Asphalt Paving (2) (C4.1)
18. Const. 18" Concrete Curb and Gutter (1) (C4.1)
19. General Contractor to install Mechanical Equipment Screens (Provided by Others)
20. Connect & Match Existing Grade
21. Dumpster Enclosure (18) (C4.3) (C4.4)
22. Provide Smooth Clean Edge, Sawcut Asphalt if Needed
23. Street Improvements & Work Order Limits; See Work Order #587880 Plans
24. Exist. Curb Wall to Remain
25. Pedestrian Warning Zone Striping (See Arch. Plans)
26. Const. 4" Paint Stripe (Color: White)
27. Const. 6" CMU Screen Wall (22) (C4.4)
28. Landscape (See Landscape Plan)
29. Const. 4" Waterway (8) (C4.1)
30. Pylon Sign by Separate Permit
31. Const. Accessible Striping per MUTCD & ICC/ANSI A117.1 (Latest Editions)
32. Const. Accessible Ramp per ICC/ANSI A117.1 (Latest Edition) (17) (C4.3)
33. Const. Accessible Sign & ICC/ANSI A117.1 (Latest Editions) (16) (C4.3)
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39. Street Improvement Plan (Offsite) Boundary
40. Const. 6" Screen Wall (1) (C5.1)
41. Const. curb Transition (15) (C4.3)
42. Const. Turn Arrow & Asphalt markings per MUTCD
43. Const. Stop Sign (R1-1) per MUTCD
44. Const. 4" CMU Screen Wall (22) (C4.4)
45. Const. Emergency Fuel Stop (10) (C5.9)
46. Const. 4"x6" Concrete Pad (10) (C4.3)
47. Const. "NO PARKING" pointing in capital letters, each of which shall be at least one foot high and at least two inches wide, placed at rear of the parking space so as to be close to where an adjacent vehicles rear tire would be placed (Color: White), per 66-1-4.18 NMSA 1978
48. Sight Distance Triangle
Landscaping and signing 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. (See Landscape Plan)
49. Driveway Visibility
Landscaping and signing 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. (See Landscape Plan)
50. Const. 3" Waterway (8) (C4.1)



Vicinity Map
Zone Atlas Page F-14
5640 4th Street N.W.
Albuquerque, New Mexico 87107
Not to Scale

Legend

- Proposed Building
Proposed Curb & Gutter
Proposed Asphalt
Proposed Concrete
Existing Improvements
Existing Asphalt
Existing Concrete
Existing Building
Existing Power Pole
Existing Power Pole w/ Guy

Legal Description

Lots numbered Two (2), Three (3), and Four (4) of the HARPER ADDITION, a Subdivision of a tract of land in School District No. 4, Albuquerque, Bernalillo County, New Mexico, as the same are shown and designated on the plat of said Subdivision, filed in the office of the County Clerk of Bernalillo County, New Mexico on December 28, 1945 in Volume 0, folio 79.

1 10' Easement granted for Street And Right-Of-Way Purposes And For Construction And Maintenance Of Sanitary Sewers And Water And Other Utility Lines And Installations filed December 8, 1953 in Book D 262, Page 232.

Site Data

Total Site Area = 22,111 s.f. (0.51 ac.)
Landscape Area Provided = 3,350 s.f. (15%)
Impervious Area Provided = 18,521 s.f. (84%)
Building Area = 241 s.f. (1%)
Canopy Area = 3,955 s.f.
Parking Required = 1 stalls
Parking Provided = 1 stall + 1 Accessible Stall
+ 1 Motorcycle Stall = 3 Total

General Site Notes:

1. Stalls designated as Accessible will require a painted Accessible symbol and sign. (See Details)
2. Fire lane markings and signs to be installed as directed by the Fire Marshal.
3. Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
4. All dimensions are to back of curb unless otherwise noted.
5. Const. curb transition at all points where curb abuts sidewalk, see detail.

New Mexico One Call, Inc.
NM ONE CALL
Professional Resources for Damage Prevention
1-800-321-ALERT

Smith's
FOOD & DRUG STORES
1550 South Redwood Road
Salt Lake City, Utah 84104
Telephone (801) 974-1400

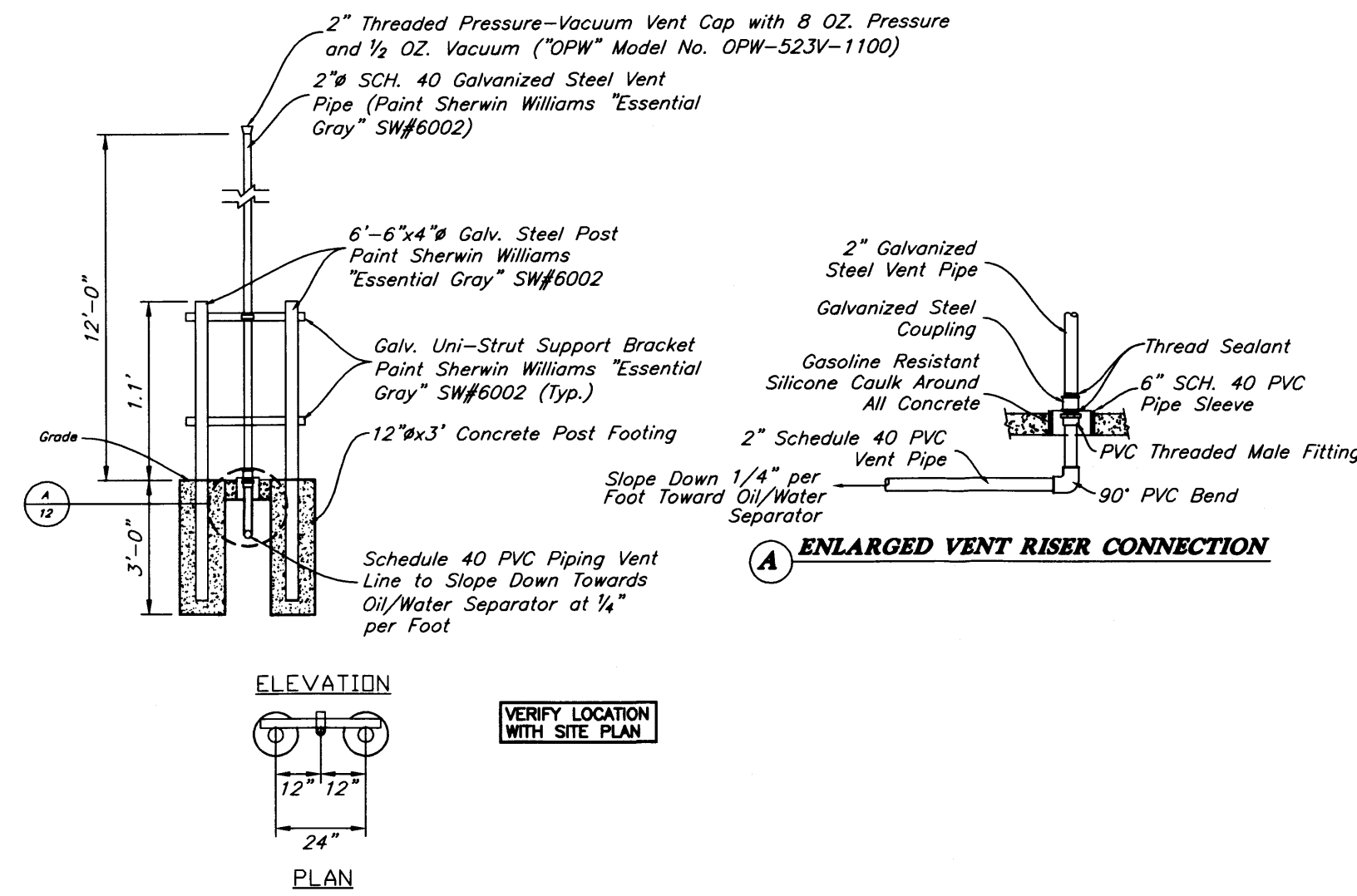
#423
Albuquerque, NM

Anderson Wahlen & Associates
2010 North Redwood Road, Salt Lake City, Utah 84116
801-521-8529 - WAEngineering.net

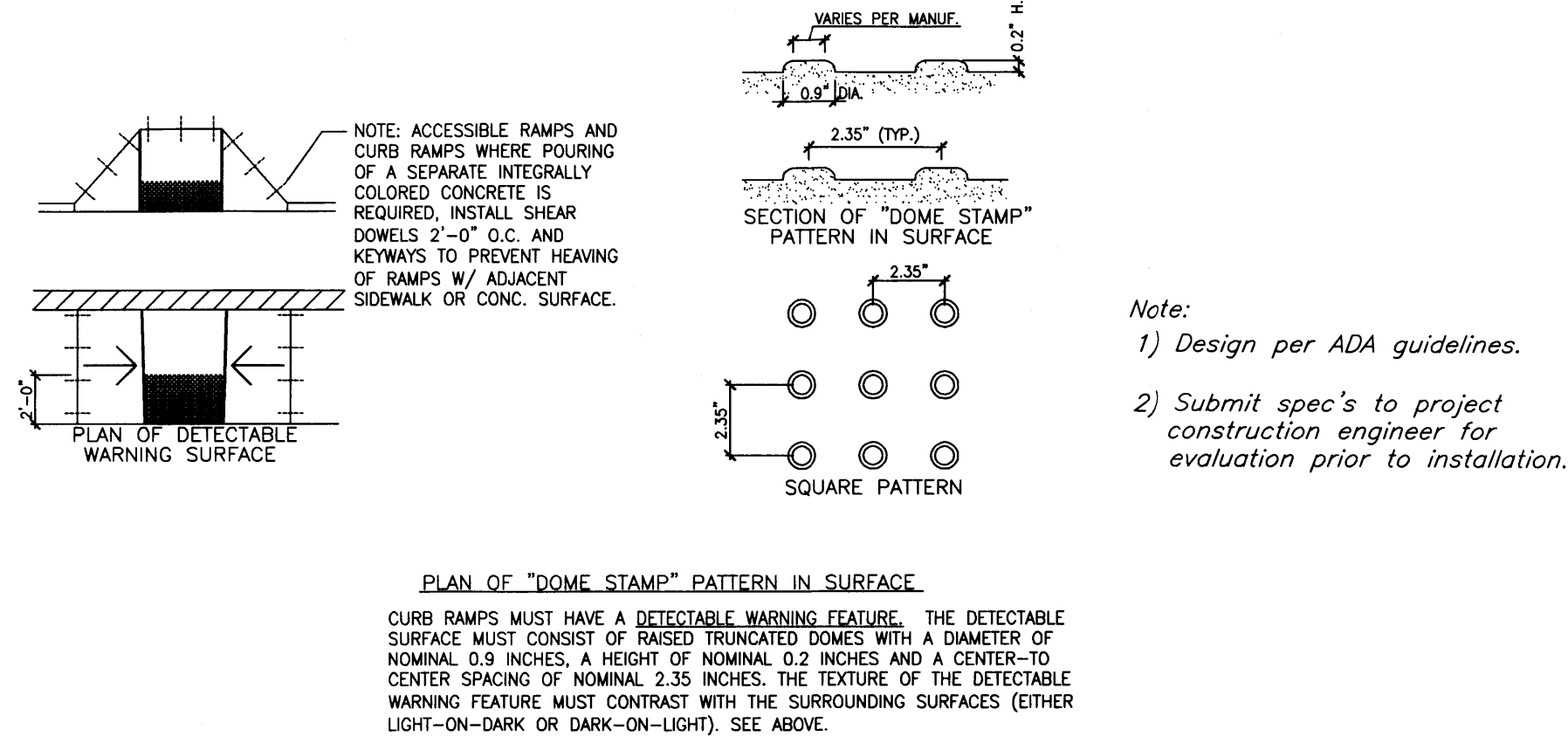
Traffic Circulation / Site Plan

Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107

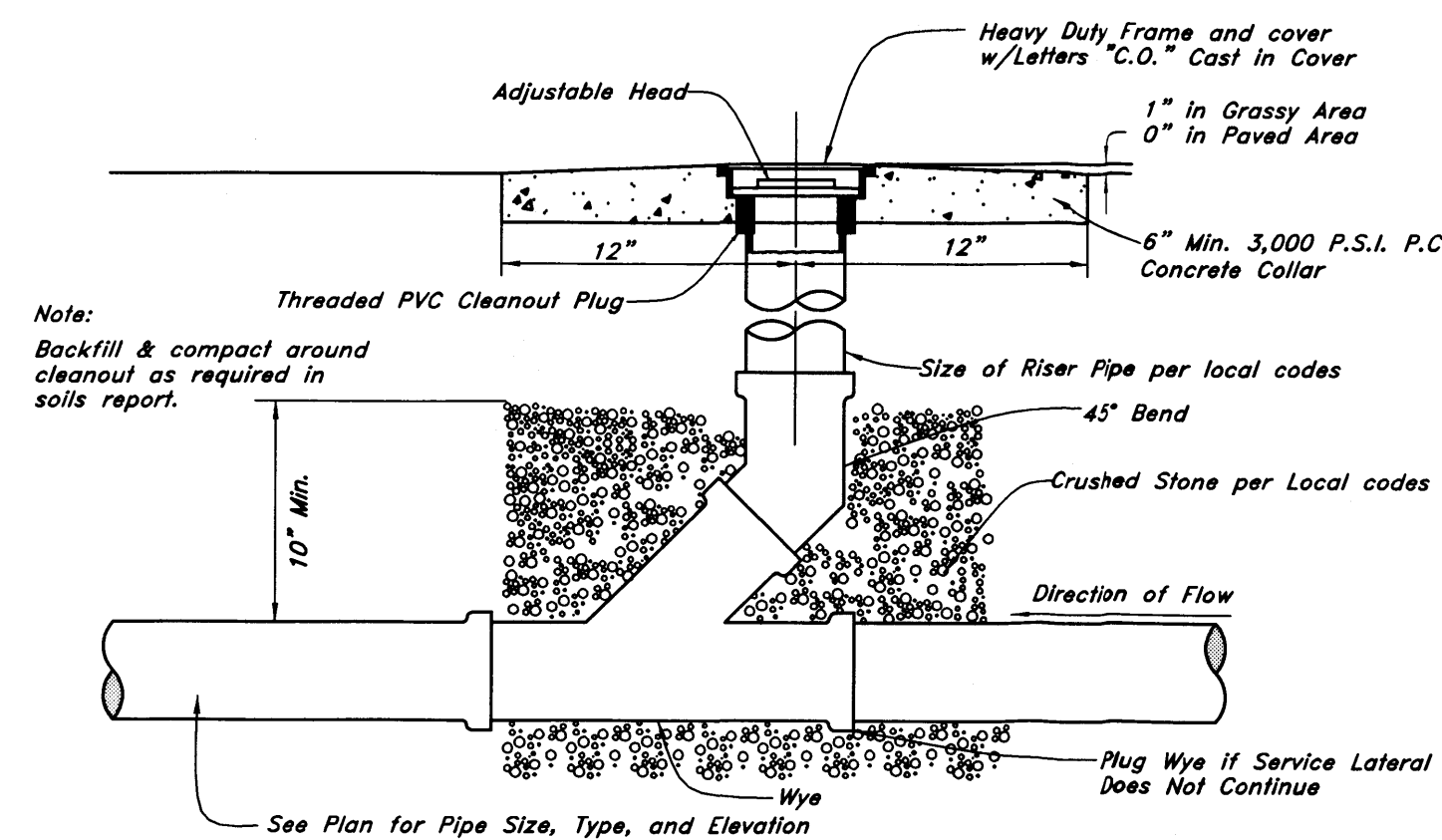
Feb 02, 2016
SHEET NO. **C1.1**



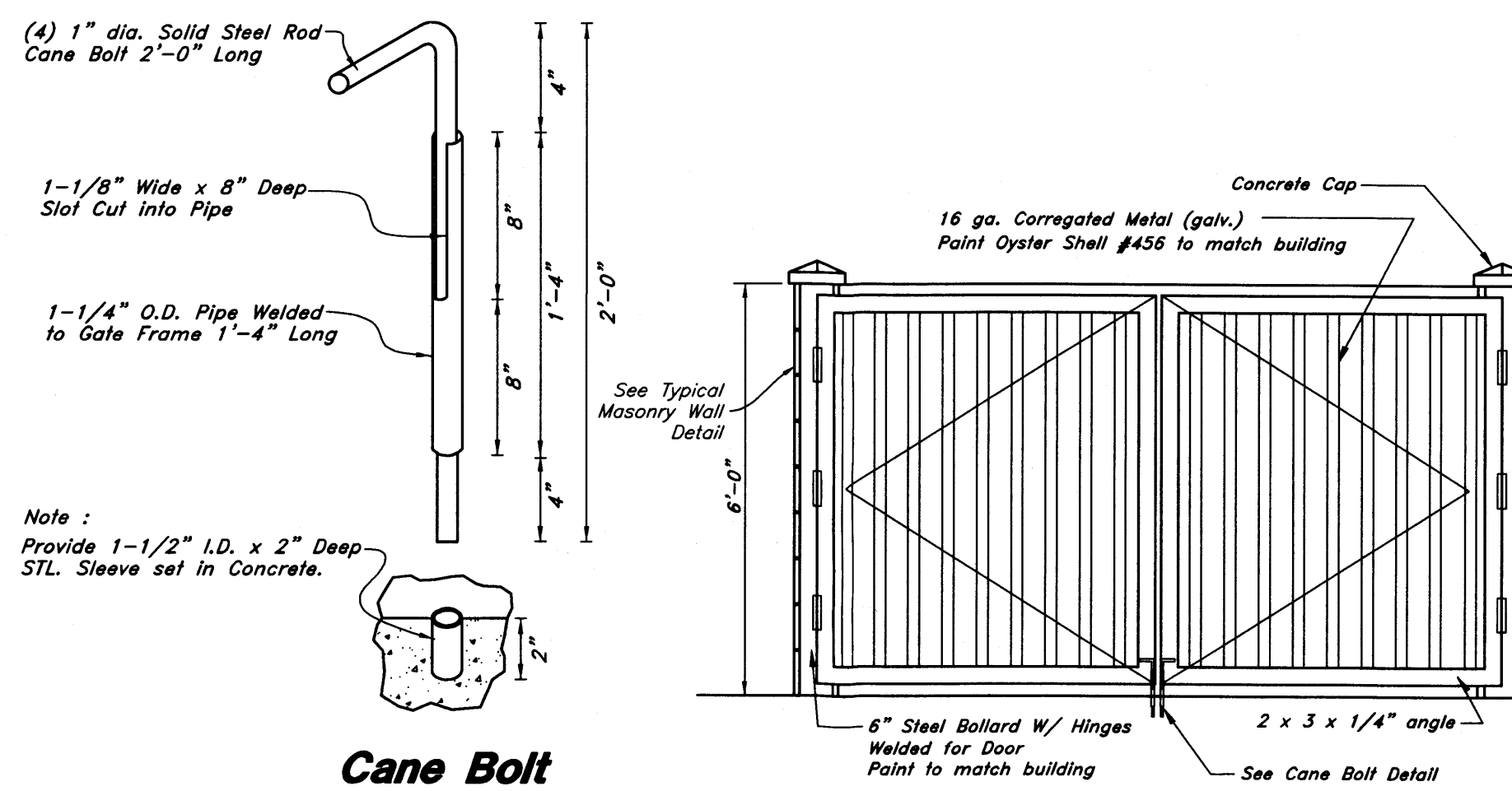
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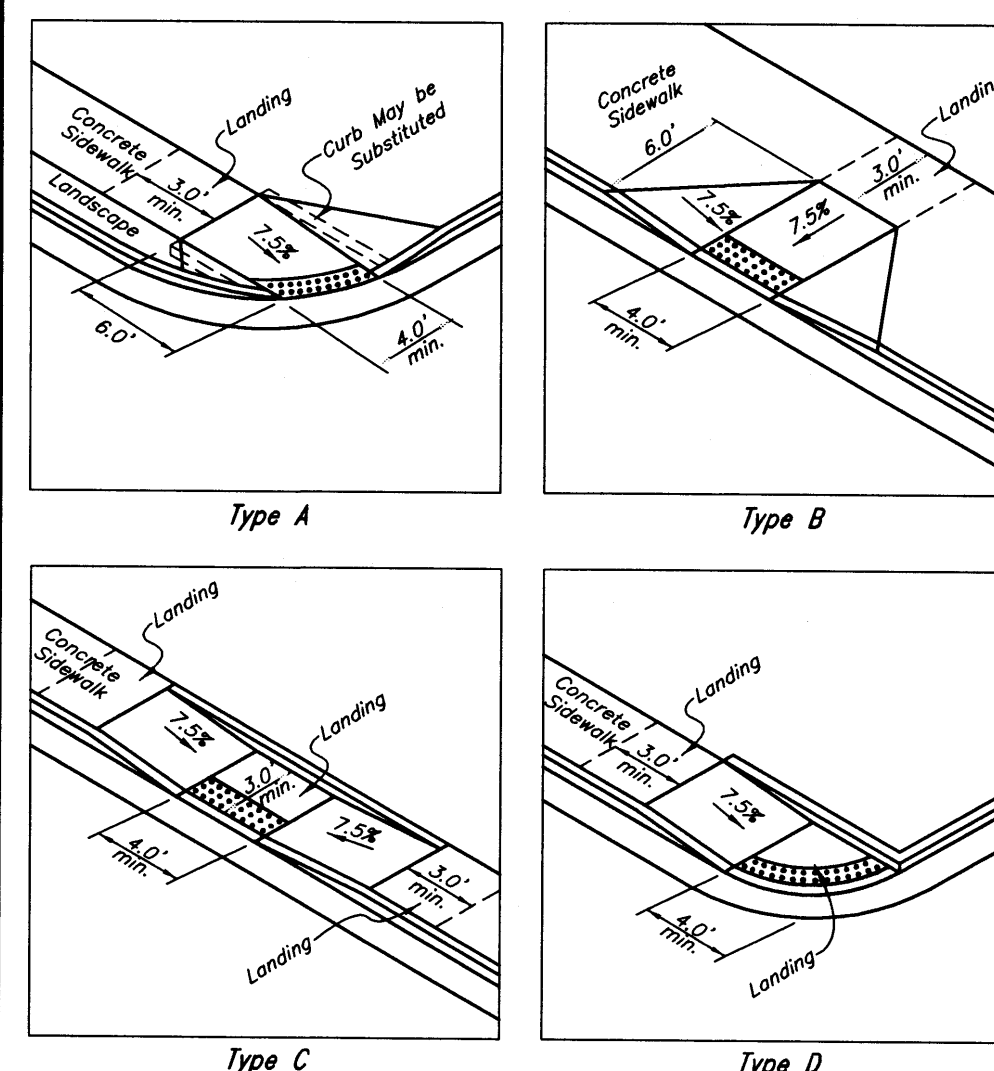
Truncated Dome Detail
Not to Scale



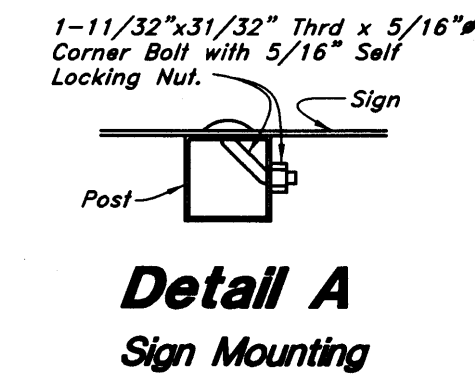
Cleanout Detail
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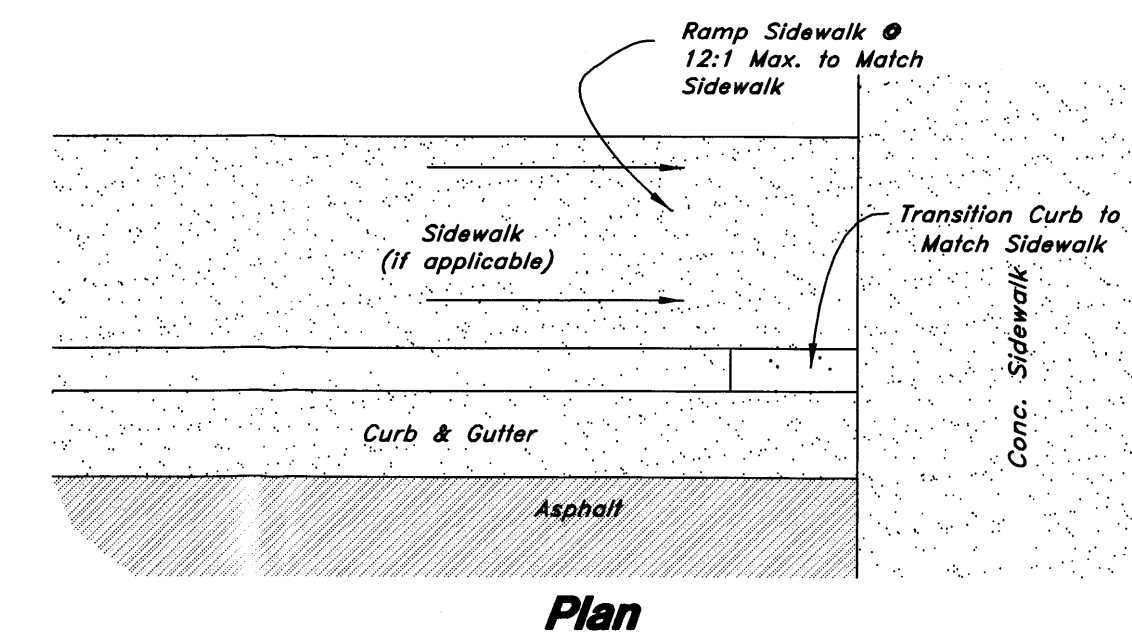
Trash Enclosure
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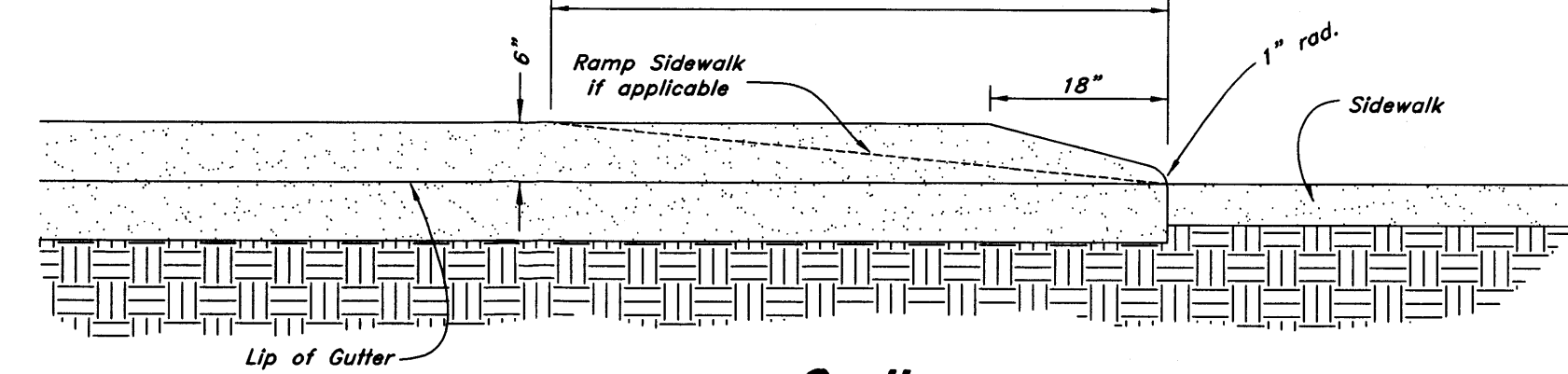
Typical Curb Ramp Detail
Not to Scale



16 ADA Parking Sign w/Bollard
Not to Scale



Curb Transition
Not to Scale



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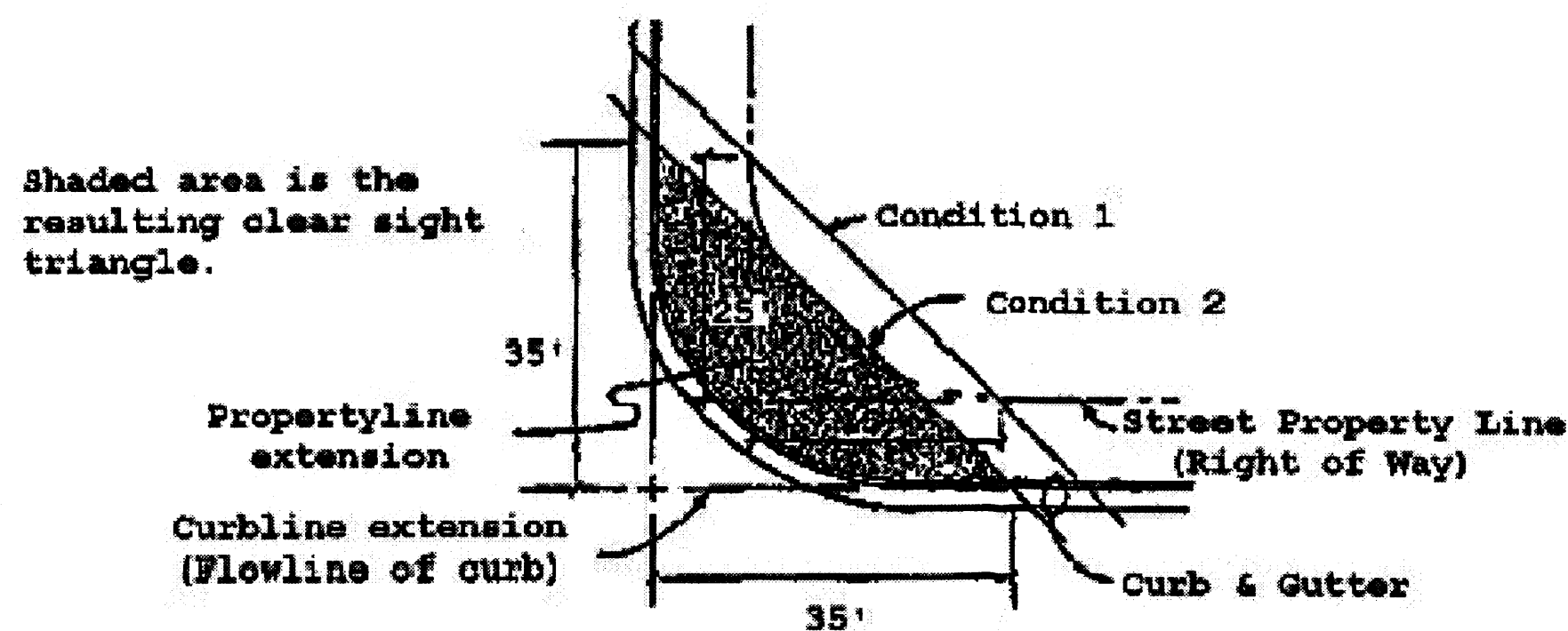
DAVID R. ANDERSON
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
20167
1-26-2016

26 Jan, 2016
SHEET NO.
C4.3

Note:
Intersection Sight Distance

a. Intersection designs must provide for clear sight distances in the horizontal plane. Minimum intersection visibility should comply with the following specific language from Section 2-15 of the Traffic Code:

"No such obstruction to view between three and eight feet above the gutter line shall be placed or maintained within a triangular area at the street corner, which area is bounded by: (1) the street property lines of the corner lot and a line connecting points twenty-five feet distant from the intersection of the property lines of such lot, or (2) the curb lines of an intersection and a line connecting points thirty-five feet distant from the corner of the intersection and such corner is determined by projecting the curb lines out to a specific point, whichever is the lesser."



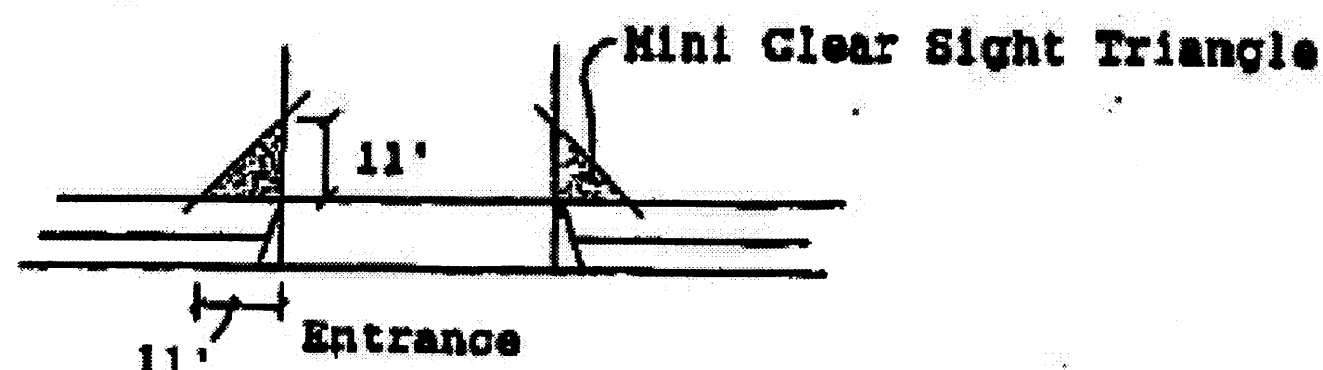
b. Intersections of local streets with major streets classified as collector or above shall not be located at or near horizontal curves without special evaluation of intersection sight distance. The location of an intersection on the "inside" of a horizontal curve is a situation that will typically result in intersection visibility problems. The location of any property lines, fences or other obstructions will need to be evaluated to ensure that the minimum sight distance is maintained. See figure IX-40 p 762, A Policy on Geometric Design of Highways and Streets, AASHTO, or latest update.

24 Sight Distance Triange

Not to Scale

Note:
Visibility for Driveways

Driveways need to have sufficient visibility for the motorist utilizing the entrance or exit to perform his maneuver safely. Visibility needs to be maintained in accordance with the AASHTO guidelines for intersection visibility (see figure IX-40 p762) For all driveways on collector or arterial streets, the applicant must check the driveway visibility to determine whether these guidelines are met. Landscaping, fencing and/or berming will need to meet the requirements for driveway visibility. In addition, a mini-clear sight triangle needs to be maintained starting at the sidewalk and measuring 11 feet on a side as shown below



23 Driveway Visibility

Not to Scale

2012 IBC REBAR LAP SPLICE SCHEDULE FOR CONCRETE APPLICATIONS (ACI 318 - 05)					
BAR SIZE NO.	DIA.	TYP. SPLICES CLASS 'A'		TOP BAR SPLICES CLASS 'B'	
		CLASS 'A'	CLASS 'B'	CLASS 'A'	CLASS 'B'
		22"	29"	29"	39"
4	0.500	22"	29"	29"	39"
5	0.625	28"	36"	36"	47"
6	0.750	33"	43"	43"	56"

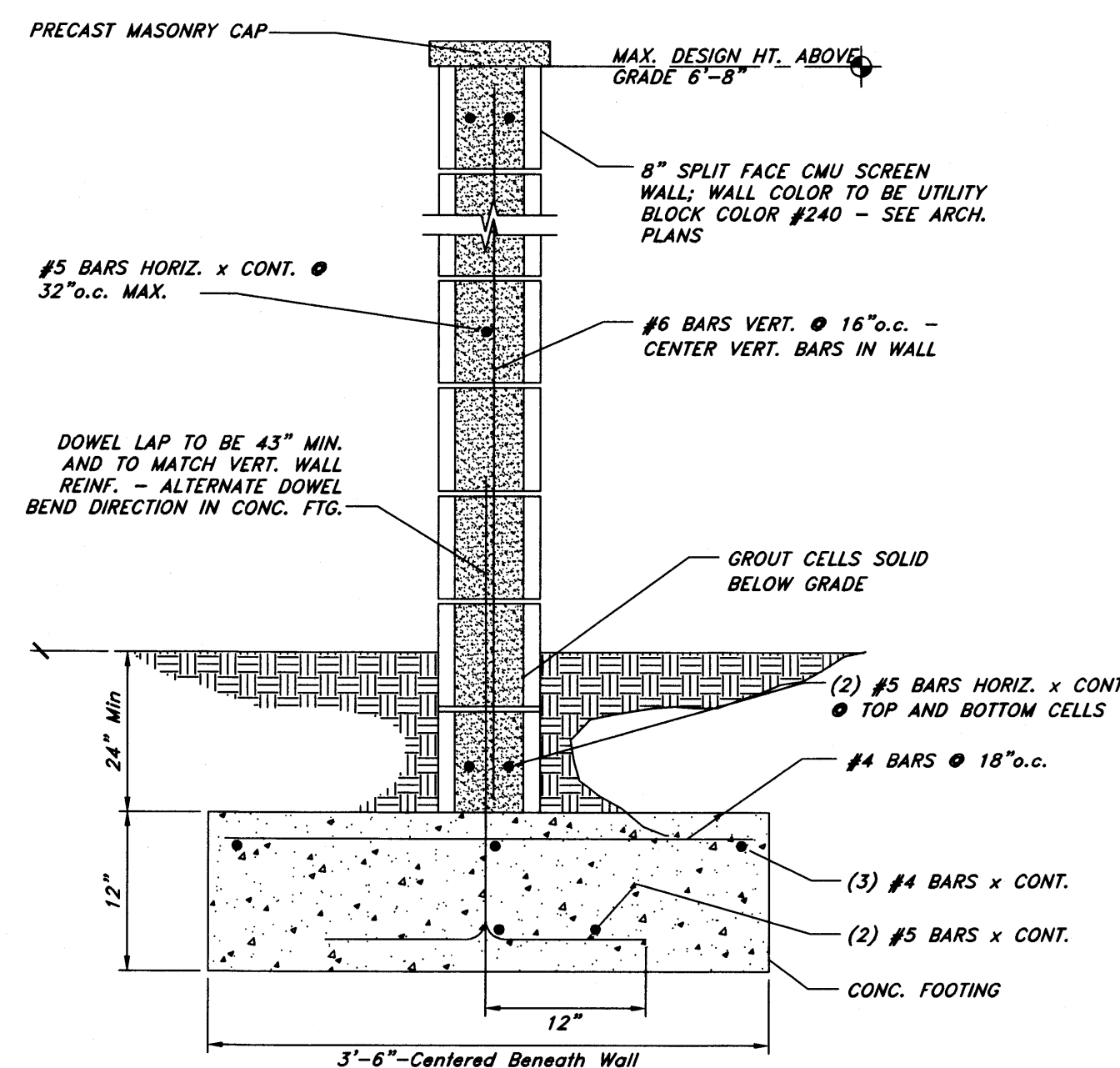
NOTES:
1. ALL LAP SPLICE LENGTHS ARE CLASS 'A' UNLESS NOTED OTHERWISE.
2. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITY. WHERE MECHANICAL COUPLERS ARE USED, STAGGER ADJACENT SPLICES A MINIMUM OF 24".
3. CONCRETE LAP LENGTHS SHALL BE INCREASED BY 20% WHERE EPOXY COATING IS USED.
4. TOP BAR IS ANY HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.

SCHEDULE

2012 IBC REBAR LAP SPLICE SCHEDULE FOR MASONRY APPLICATIONS (ACI 530 - 05) (USING f'm = 1500 PSI)					
BAR SIZE NO.	DIA.	8" WALL		12" WALL	
		CLASS 'A'	CLASS 'B'	CLASS 'A'	CLASS 'B'
		20"	29"	29"	39"
4	0.500	20"	29"	29"	39"
5	0.625	25"	36"	36"	47"
6	0.750	33"	43"	43"	56"

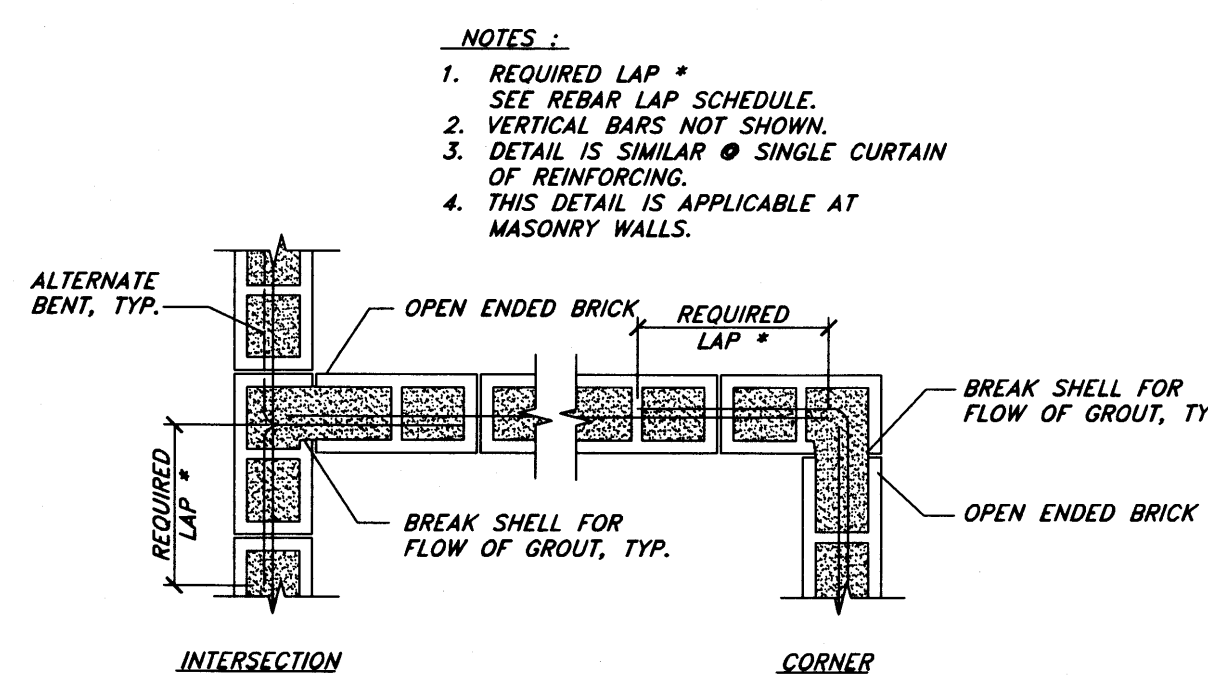
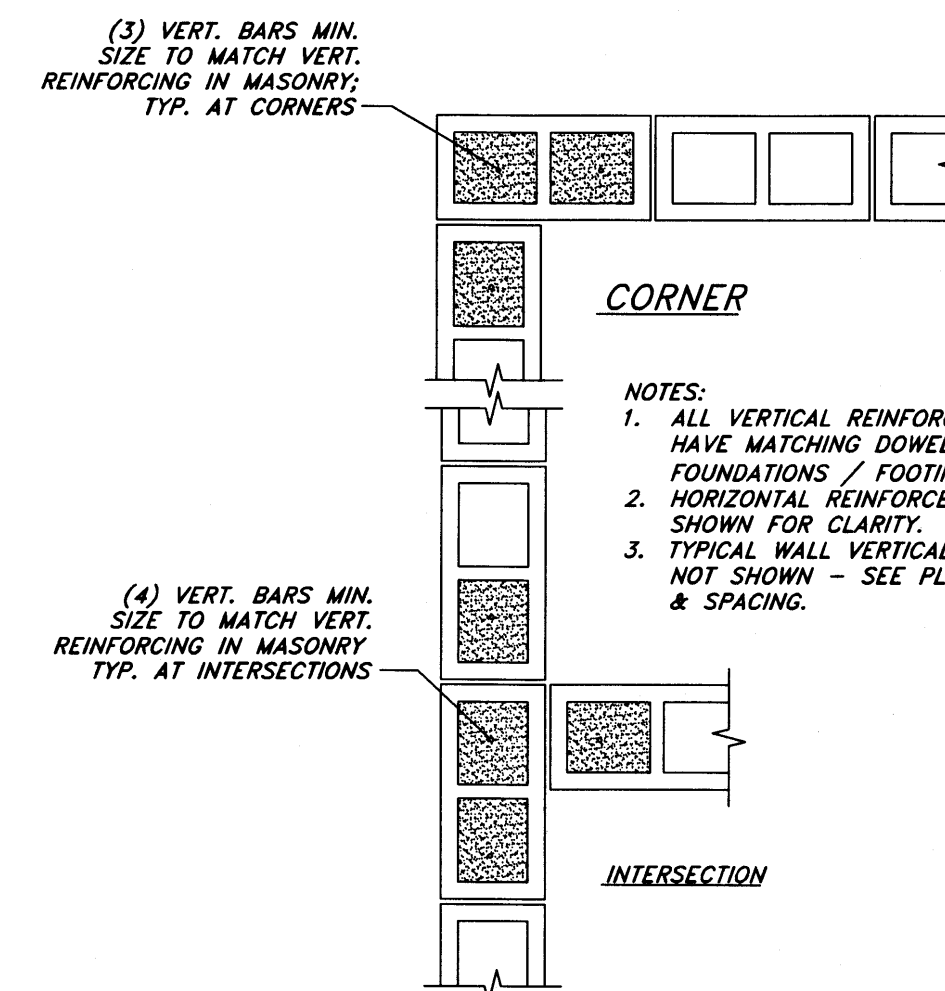
NOTES:
1. MECHANICAL COUPLERS ARE REQUIRED FOR BARS IN MASONRY AS NOTED IN THE SCHEDULE.
2. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN IN SCHEDULE.
3. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITIES.

SCHEDULE



CMU RETAINING WALL NOTES:

- f'm = 1500 psi - USE TYPE 'S' MORTAR
- Fy = 60 ksi
- Fc = 3000 psi
- ALLOWABLE SOIL BEARING PRESSURE = 1500 psf (MIN.) - SEE SOILS REPORT
- MAX FROST DEPTH = 30" TO BOTTOM OF FOOTING - SEE SOILS REPORT FOR MORE INFO.
- MINIMUM COVER OVER TOP OF FOOTING = 24"
- MAXIMUM DESIGN CRITERIA FOR WIND SPEED = 110 mph EXPOSURE C
- MAXIMUM SDS FOR WALL DESIGN = 1.20
- ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED PER THE SOILS REPORT.
- ALL DOWELS AND REINFORCEMENT SHALL BE HELD IN PLACE PRIOR TO AND DURING CONCRETE AND / OR GROUT PLACEMENT.
- SEE TYPICAL DETAIL FOR STEPS IN THE SCREEN WALL.
- ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 109 AND CHAPTER 17 OF THE IBC.
- ALL VERTICAL BARS TO BE CENTERED IN CELLS.
- NOTE: HAVING A SITE SPECIFIC SOILS REPORT AND REDUCING THE WIND SPEEDS TO MEET LOCAL CODE REQUIREMENTS MAY RESULT IN REDUCED FOOTING SIZES.



TYPICAL REINFORCEMENT @ INTERSECTION OF CMU

TYPICAL VERTICAL REINFORCING

Screen & Dumpster Wall

Not to Scale

New Mexico One Call, Inc.
NMOC
Professional Resources for Damage Prevention
1-800-321-ALERT

Smith's
FOOD & DRUG STORES
1550 South Redwood Road
Salt Lake City, Utah 84104
Telephone (801) 974-1400

#423
Albuquerque, New Mexico

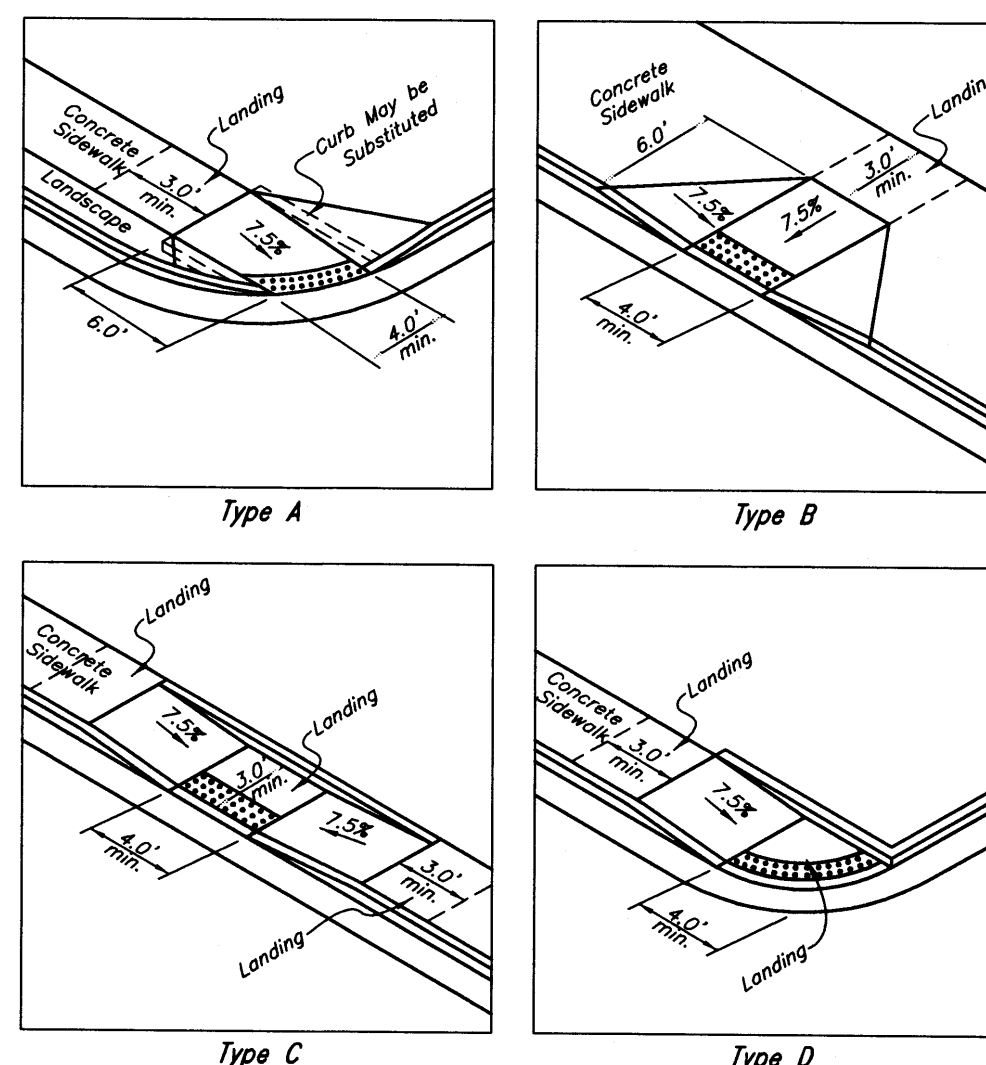
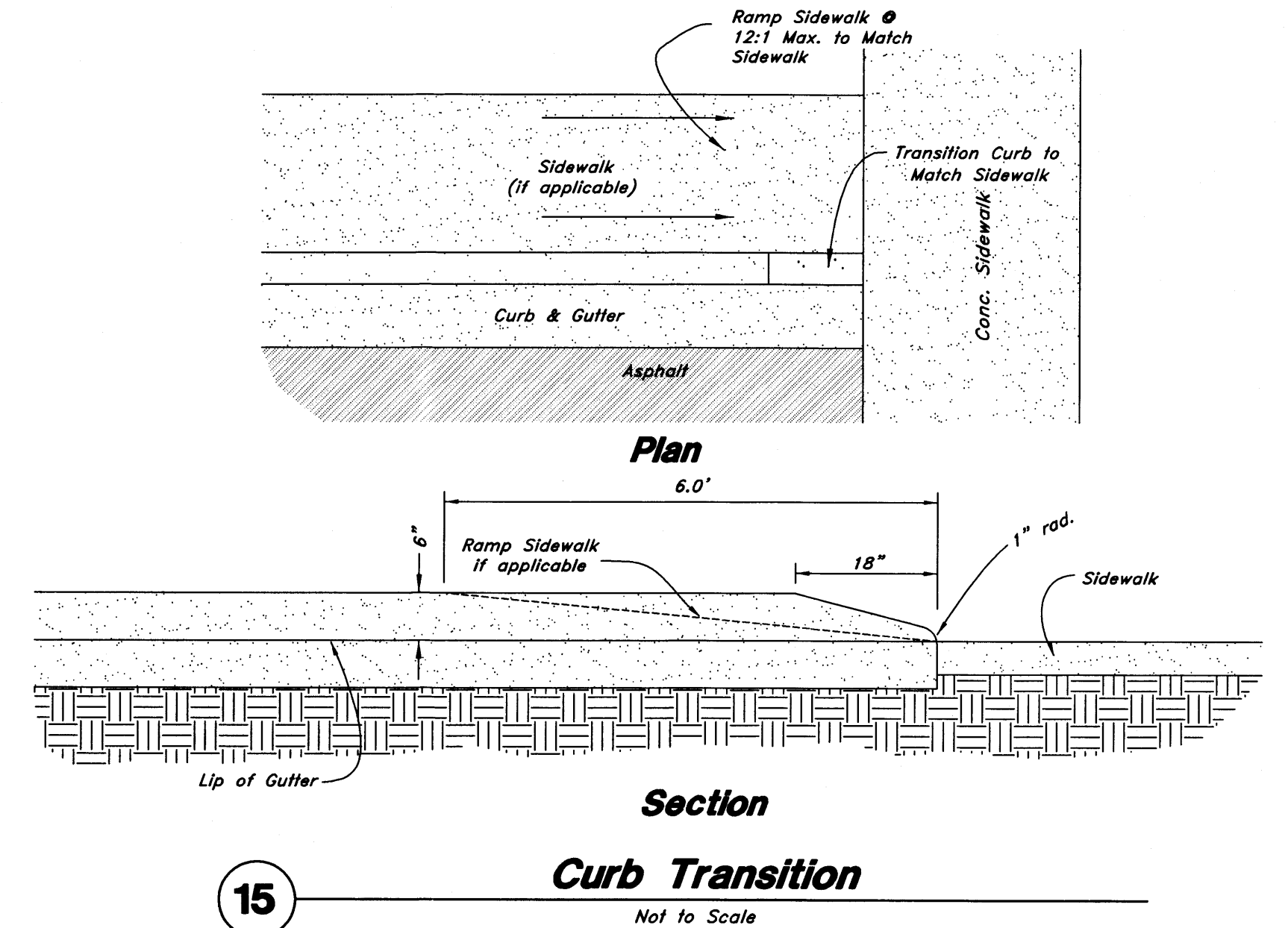
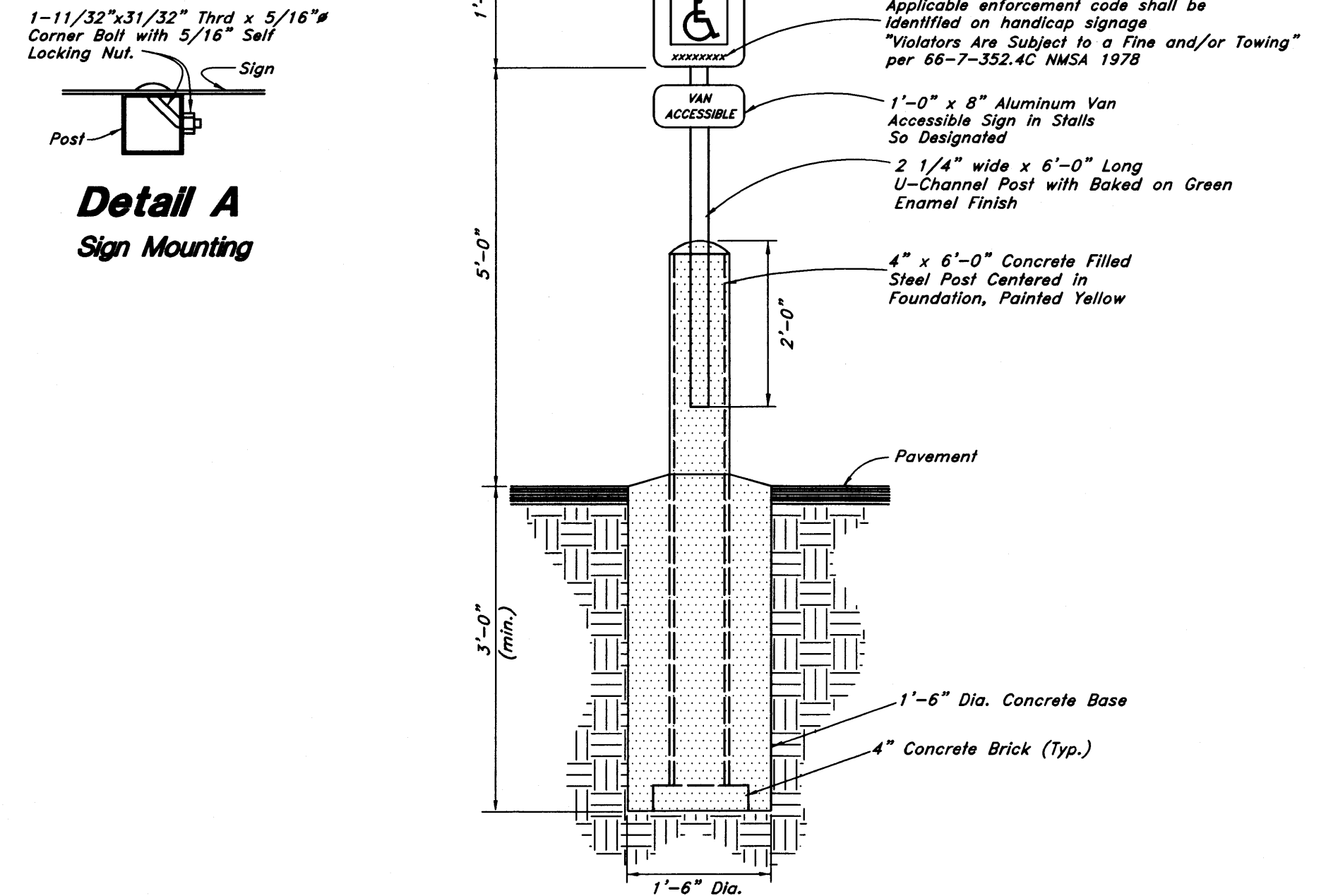
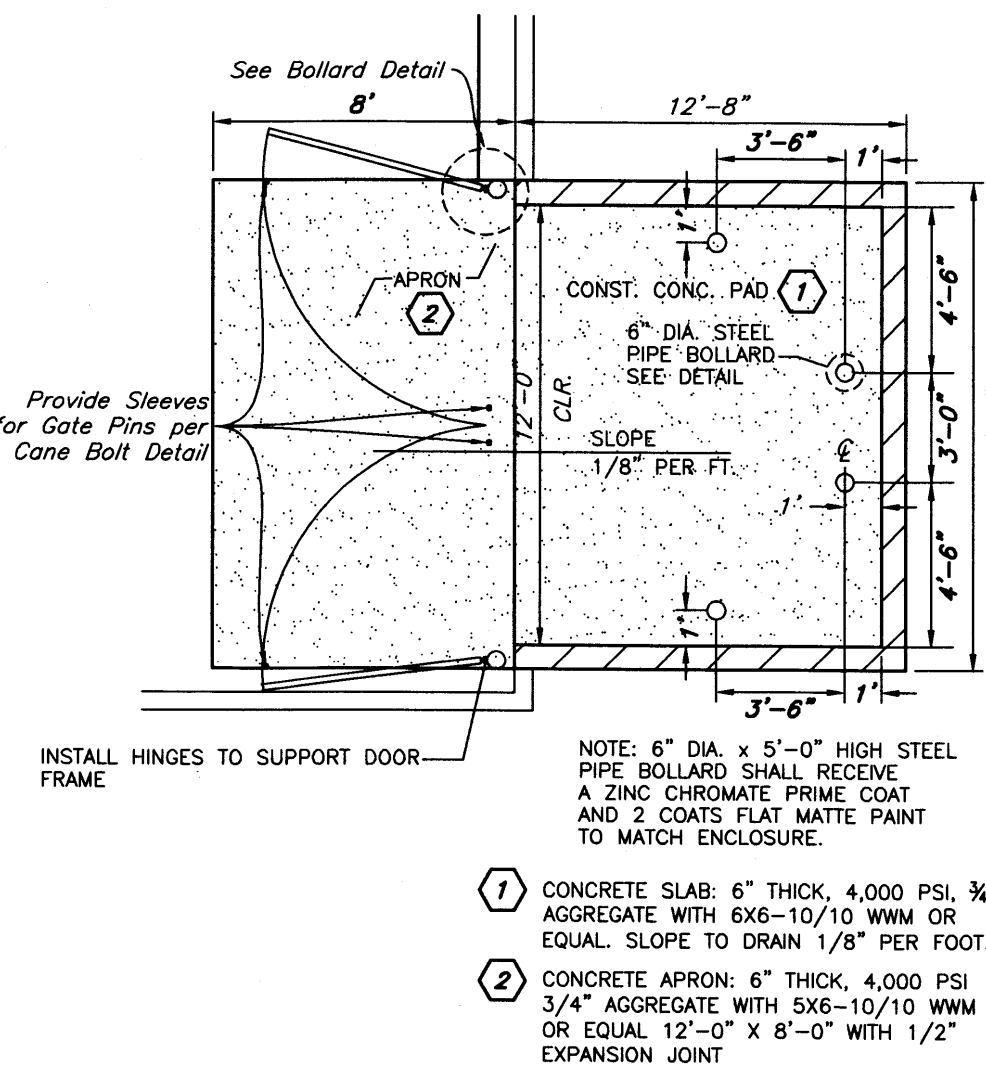
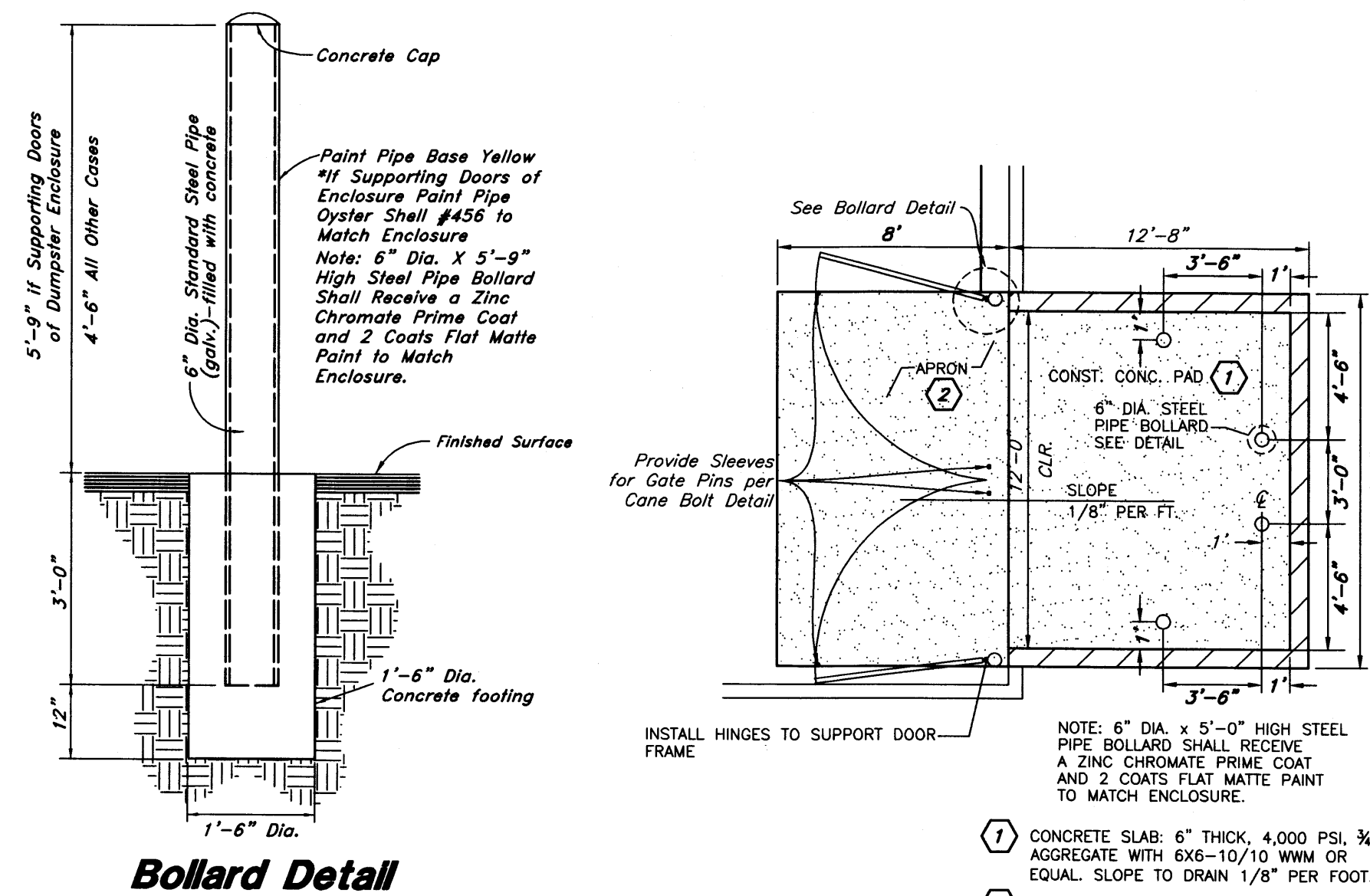
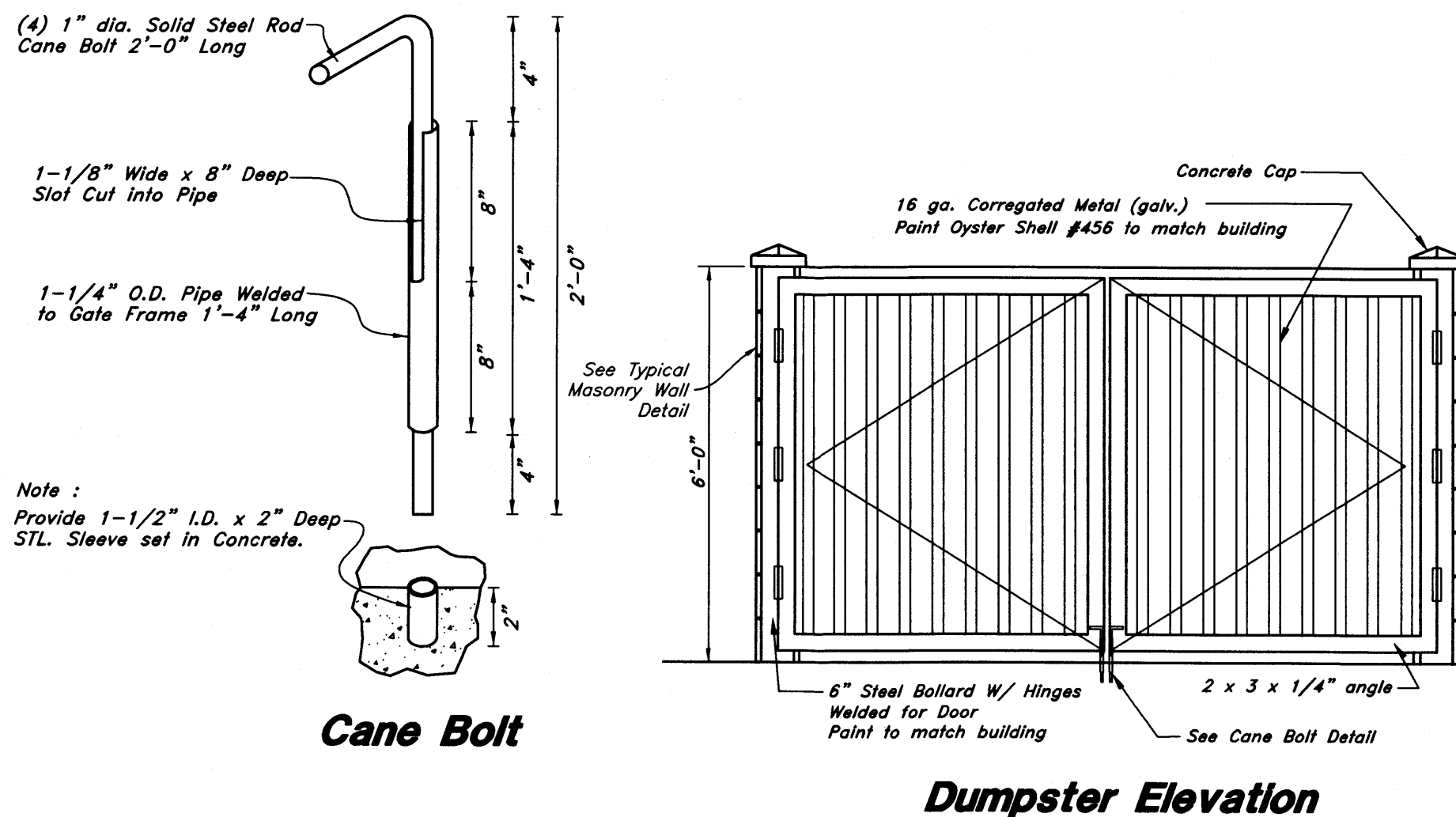
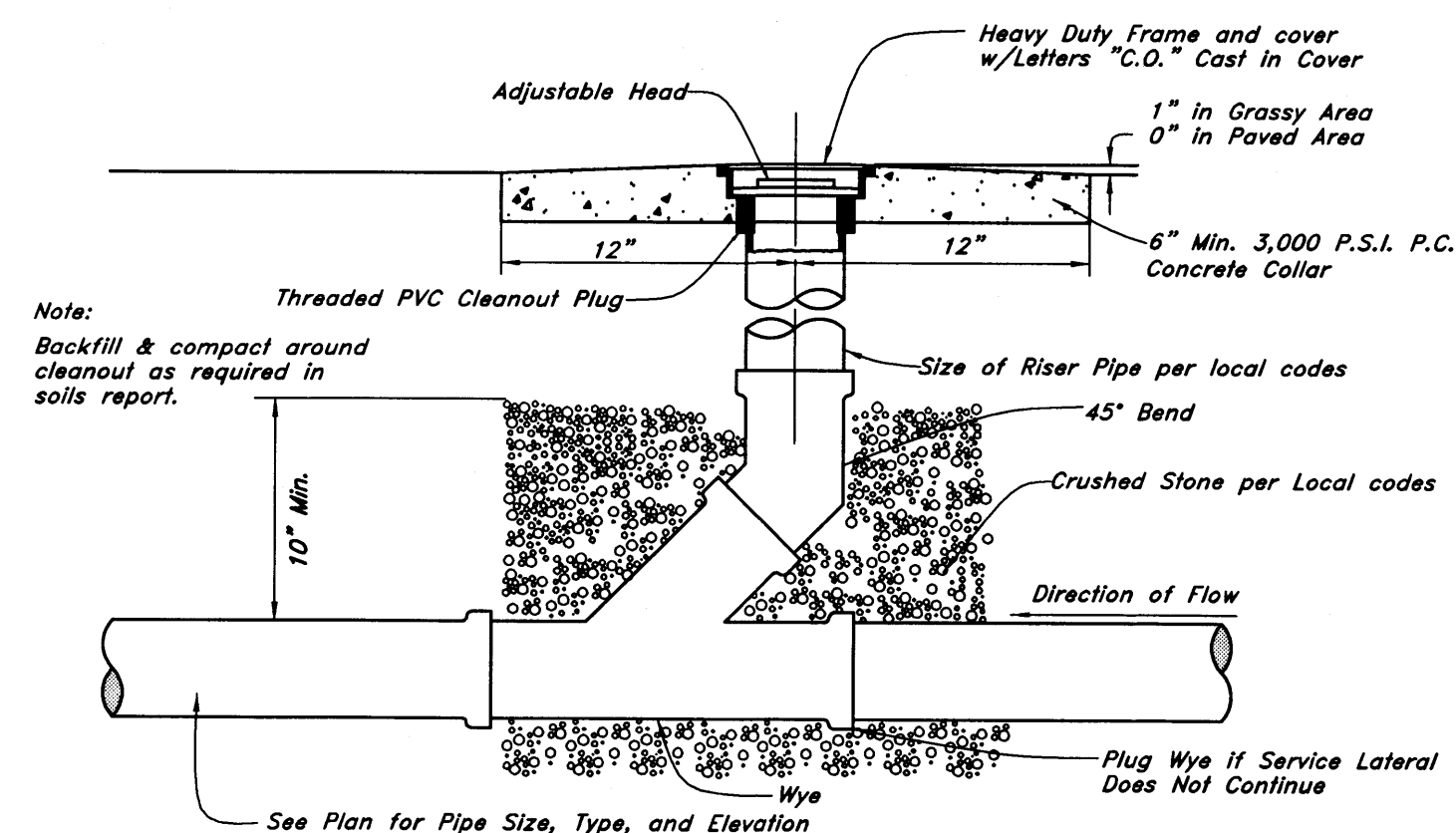
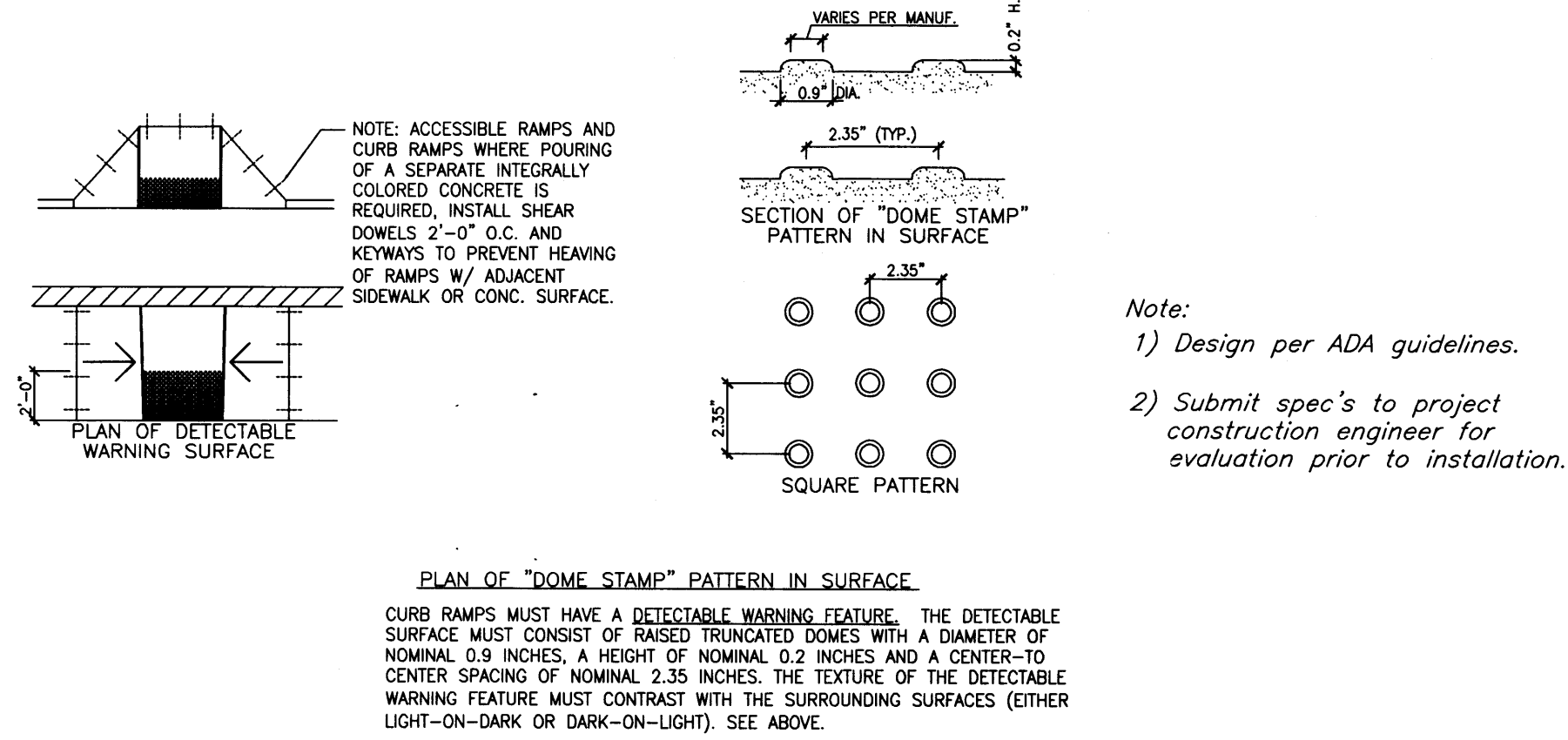
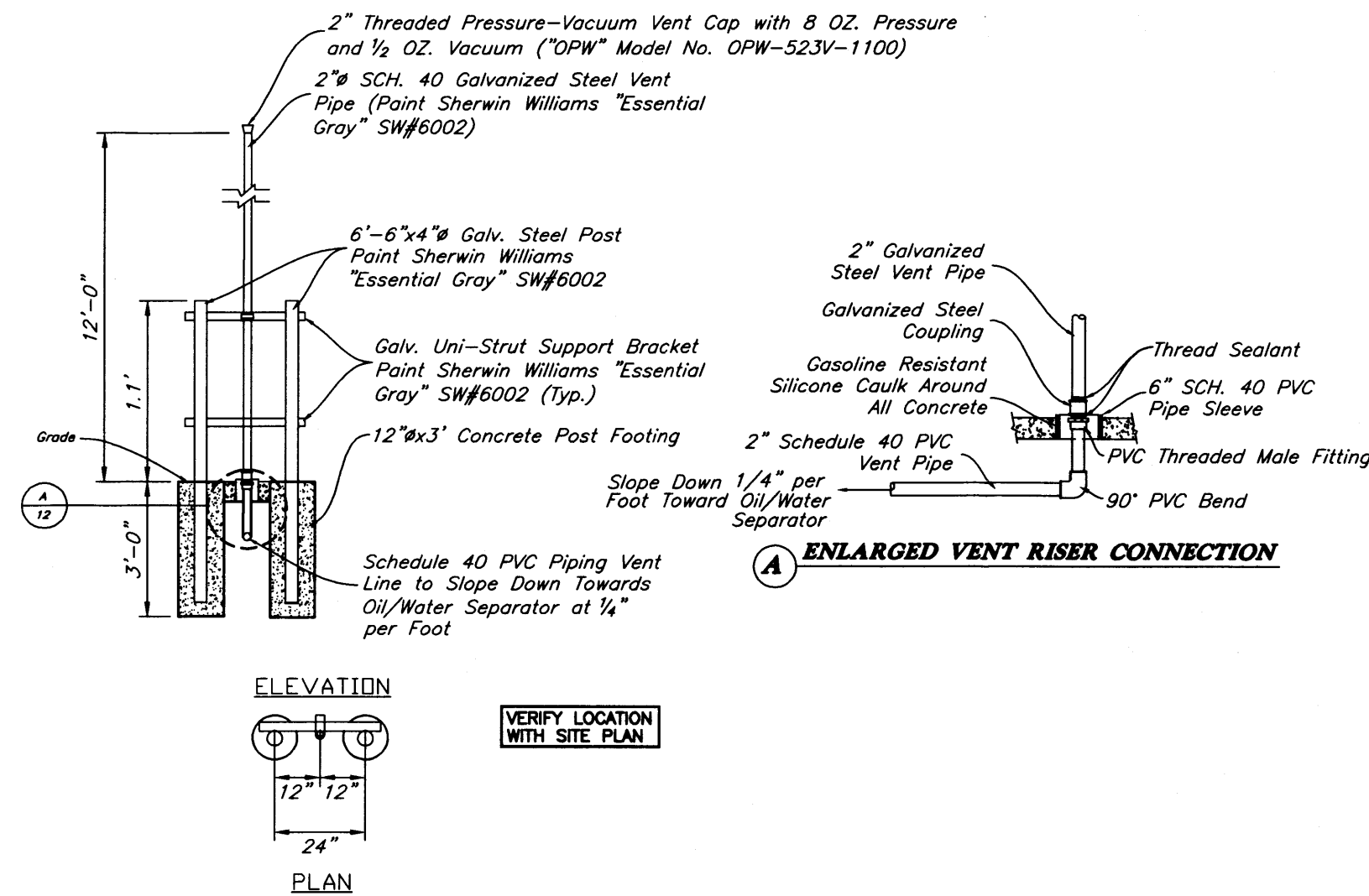
ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
801-321-8629 - AWahlen@nmoc.net

Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107

DAVID C. ANDERSON
NEW MEXICO
20167
1-26-2016
REGISTERED PROFESSIONAL ENGINEER

26 Jan, 2016

SHEET NO.
C4.4



New Mexico One Call, Inc.
NMOC
Professional Resources for Damage Prevention
1-800-321-ALERT

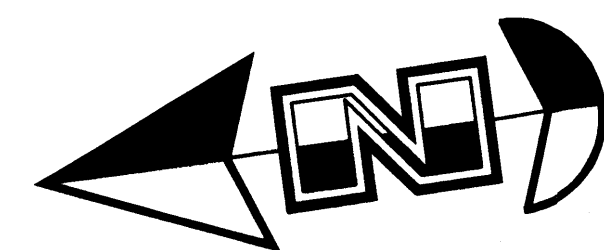
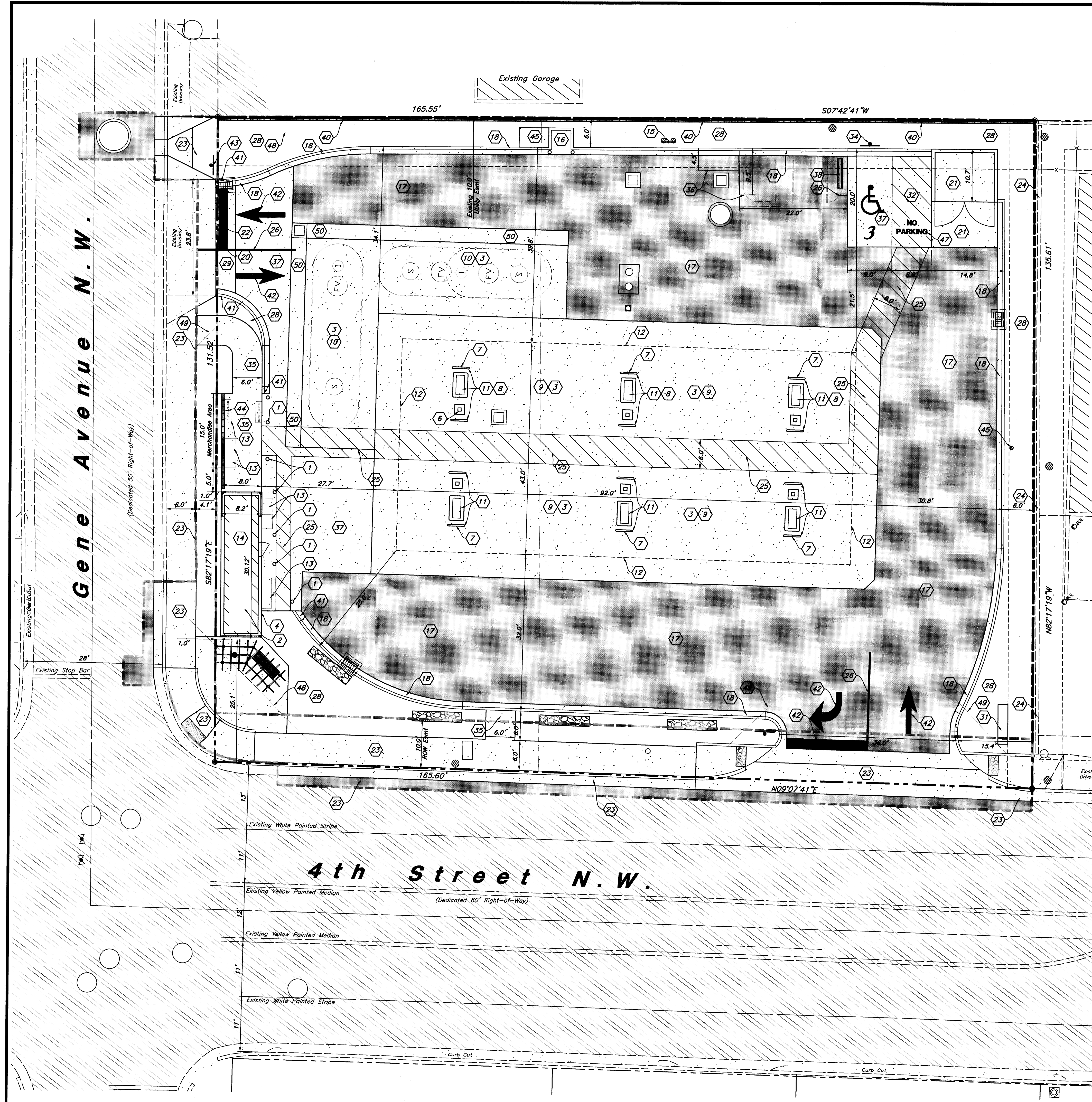
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Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107

Professional Engineer
20167
1-26-2016

26 Jan, 2016
SHEET NO.
C4.3



Scale: 1" = 10'



Site Construction Notes

- 1 Const. Bollard (18) (C4.3)
- 2 Install roof penetration in kiosk and weather proof for speaker/camera wire installation.
- 3 All concrete slabs shall be cleaned and sealed by Owner. Contractor shall coordinate with the Owner provided Contractor (White Mountain, Mike Letts 801-547-9278 or Romac Services 801-758-7315).
- 4 Provide caulking and painting as necessary to touch up exterior panels of the kiosk.
- 5 Provide a water tight seal between the kiosk foundation and canopy slab.
- 6 Const. Tank Vent Risers on Column (See Arch. Plans)
- 7 Paint all bollards and island forms with Contractor supplied Sherwin Williams Industrial Enamel B542 Series Paint.
- 8 Install a diesel tee, plug, and fittings in the MPD sumps of the islands with diesel.
- 9 Construct 6" Thick Concrete Canopy Drive Slab w/ Rebar Reinforcing (See Arch. Plans)
- 10 Construct 8" Thick Concrete Tank Pad w/ Rebar Reinforcing. (See Arch. Plans for Section)
- 11 Contractor Shall Construct Dispenser Islands w/ Bollard Protection and Install Fuel Dispenser (See Arch. Plans)
- 12 Overhead Canopy System Supplied and Installed by others. General Contractor to Install Footings, Conduits, & Conductors per Drawings by Madison Industries
- 13 Retail Merchandisers
- 14 General Contractor to Const. Floor and Foundation then Place Prefabricated Kiosk (See Arch. Plans)
- 15 Const. Remote Tank Vent Riser Modified for Separator Vent. (See Arch. Plans)
- 16 Const. 4'x4'x8" Concrete Pad for Air (12) (C4.2)
- 17 Const. Asphalt Paving (2) (C4.1)
- 18 Const. 18" Concrete Curb and Gutter (1) (C4.1)
- 19 General Contractor to Install Mechanical Equipment Screen (Provided by Others)
- 20 Connect & Match Existing Grade
- 21 Dumpster Enclosure (18) (C4.3) (22) (C4.4)
- 22 Provide Smooth Clean Edge, Sawcut Asphalt if Needed
- 23 Street Improvements; See Work Order #XXXXXX Plans
- 24 Exist. Curb Wall to Remain
- 25 Pedestrian Warning Zone Striping (See Arch. Plans)
- 26 Const. 4" Paint Stripe (Color: White)
- 27 Const. 6" CMU Screen Wall (22) (C4.4)
- 28 Landscape (See Landscape Plan)
- 29 Const. 4" Waterway (8) (C4.1)
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Zone Atlas Page F-14
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Not to Scale

Legend

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Proposed Curb & Gutter
Proposed Asphalt
Proposed Concrete
Existing Improvements
Existing Asphalt
Existing Concrete
Existing Building
Existing Power Pole
Existing Power Pole w/ Guy

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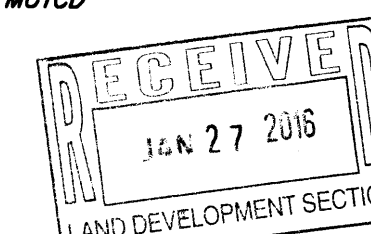
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New Mexico One Call, Inc.



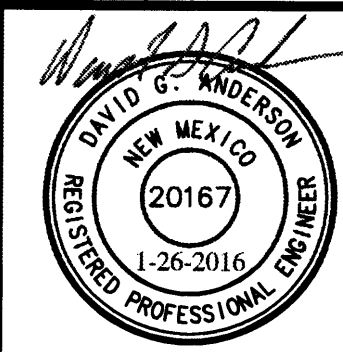
Smith's
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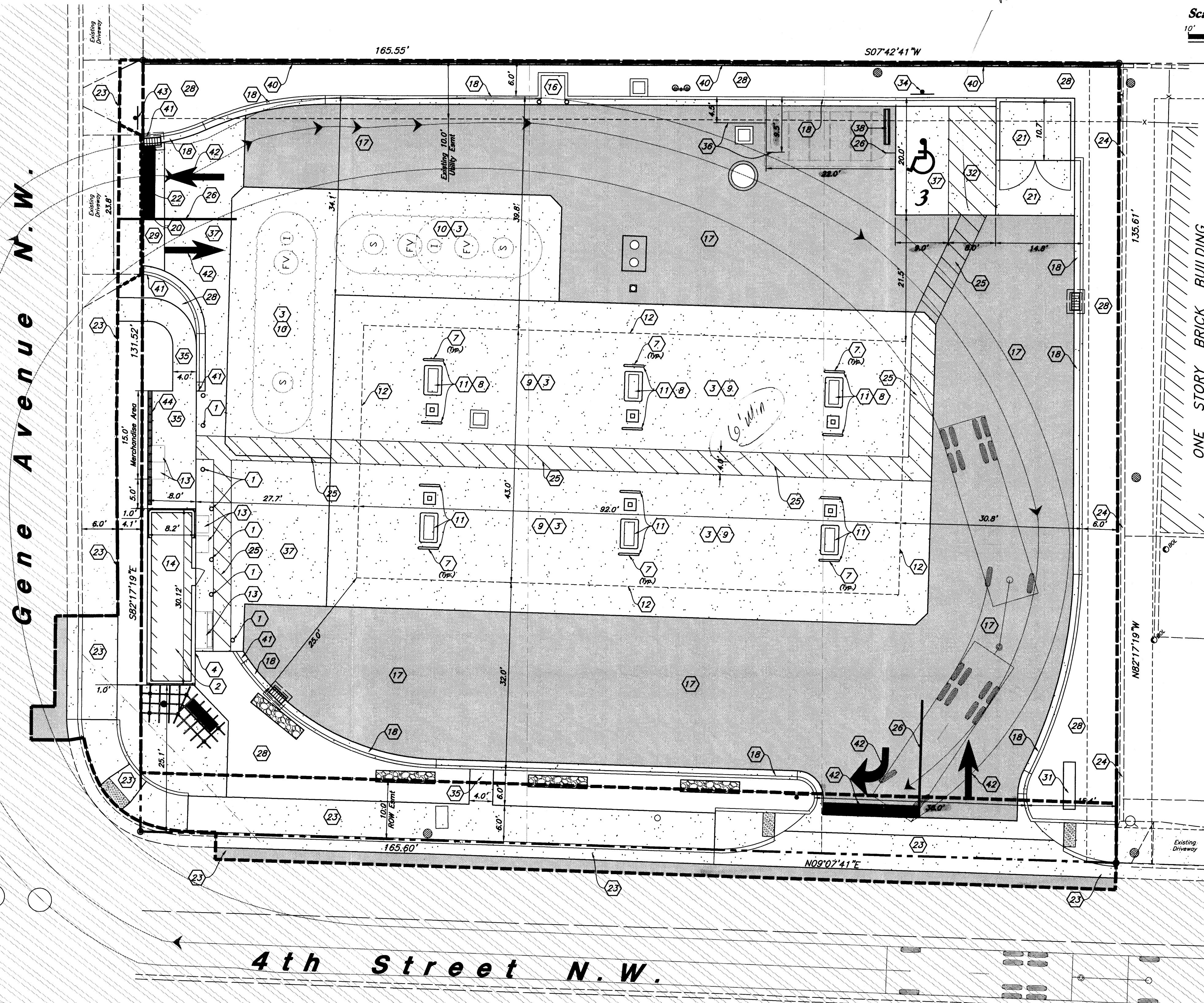
Designed by: KR
Drafted by: JC
Client Name:
Smith's Food & Drug Stores
SMC423-SP

Traffic Circulation / Site Plan
Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107



26 Jan, 2016

SHEET NO.
C1.1



Scale: 1" = 10'

Legend

- Proposed Building
- Proposed Curb & Gutter
- Proposed Asphalt
- Proposed Concrete
- Existing Improvements
- Existing Asphalt
- Existing Concrete
- Existing Building
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- 32 Const. Accessible Striping per MUTCD & ICC/ANSI A117.1 (Latest Editions)
- 33 Const. Accessible Ramp per ICC/ANSI A117.1 (Latest Edition) (C4.3)
- 34 Const. Accessible Sign & ICC/ANSI A117.1 (Latest Editions) (18) (C4.3)
- 35 Const. Conc. Sidewalk (3) (C4.1)
- 36 Const. Truncated Domes per ICC/ANSI A117.1-2003 (Latest Addition)
- 37 Const. 7" Thick Conc. Paving (6) (C4.2)
- 38 Const. Conc. Wheel Stop (9) (C4.2)
- 39 Street Improvement Plan (Offsite) Boundary
- 40 Const. CMU Retaining Wall. Contractor to Provide Design Submittal Stamped by New Mexico Licensed Professional Engineer for Approval to Engineer of Record Prior to Construction.
- 41 Const. curb Transition (15) (C4.3)
- 42 Const. Turn Arrow & Asphalt markings per MUTCD
- 43 Const. Stop Sign (R1-1) per MUTCD
- 44 Const. 4' CMU Screen Wall (22) (C4.4)



Vicinity Map
Zone Atlas Page F-14
5640 4th Street N.W.
Albuquerque, New Mexico 87107
Not to Scale

Legal Description

Lots numbered Two (2), Three (3), and Four (4) of the HARPER ADDITION, a Subdivision of a tract of land in School District No. 4, Albuquerque, Bernalillo County, New Mexico, as the same are shown and designated on the plat of said Subdivision, filed in the office of the County Clerk of Bernalillo County, New Mexico on December 28, 1945 in Volume D, folio 79.

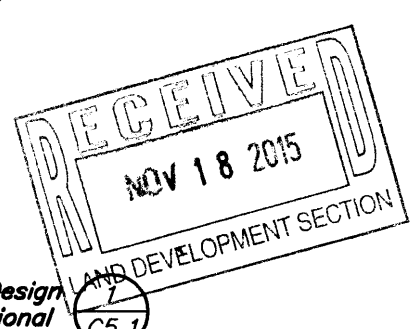
Site Data

Total Site Area = 22,111 s.f. (0.51 ac.)
Landscape Area Provided = 3,350 s.f. (15%)
Impervious Area Provided = 18,521 s.f. (84%)
Building Area = 241 s.f. (1%)
Canopy Area = 3,955 s.f.
Parking Required = 1 stalls
Parking Provided = 1 stall + 1 Accessible Stall
+ 1 Motorcycle Stall = 3 Total

General Site Notes:

1. Stalls designated as Accessible will require a painted Accessible symbol and sign. (See Details)
2. Fire lane markings and signs to be installed as directed by the Fire Marshall.
3. Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
4. All dimensions are to back of curb unless otherwise noted.
5. Const. curb transition at all points where curb abuts sidewalk, see detail.
6. Landscaping and signing 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. (See Landscape Plan)

New Mexico One Call, Inc.
NMOC
Professional Resources for Damage Prevention
1-800-321-ALERT



Smith's
FOOD & DRUG STORES
1550 South Redwood Road
Salt Lake City, Utah 84104
Telephone (801) 974-1400
423
Albuquerque, NM

Survey Note

Surv-Tek, Inc. is the licensed Surveyor responsible for providing surveying services for this project. Anderson Wahlen & Associates has relied upon Surv-Tek, Inc. for professional services in preparing this drawing. Anderson Wahlen & Associates makes no claims to the accuracy of the information provided by Surv-Tek, Inc.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

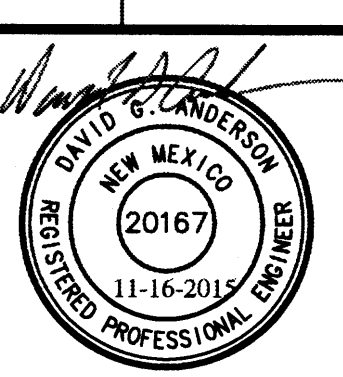
Accessible Note:

Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routes must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If Grades on plans do not meet this requirement notify Consultant immediately.
The Client, Contractor and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of the (ICC/ANSI A117.1-Latest Edition) and/or FHWA.

Designed by: KR
Drafted by: JC
Client Name:
Smith's Food & Drug Stores
SMC423-SP

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
801-321-0329 - AWAengineering.com

Traffic Circulation / Site Plan
Smith's #423 Fuel Center
5640 4th Street N.W.
Albuquerque, New Mexico 87107



16 Nov, 2015

SHEET NO.

C1.1