



# MANATEE COUNTY FLORIDA

## REQUEST FOR QUOTATION #11-0334DC TRANSIT PARK AND RIDE STATION

### ADDENDUM #3

**FROM: DEBORAH CAREY-REED, CONSTRUCTION BUYER**

DECEMBER 21, 2010

**QUOTE DUE: JANUARY 12, 2011 @ 3:00 P.M.**

The following items are issued to add to, modify, and clarify the quote requirements. Quotes to be submitted shall conform to the additions and revisions listed below.

1. Question: Sheet ES101 indicates two lights on the east side of the main parking area as SB, while Sheet SL101 indicates these same lights to be SD fixtures.  
Response: Provide SD fixtures (eliminate reference to SB).
2. Due to a recent Geotechnical Analysis of the sites current soils, the current site design will not meet the water quality and quantity design standards set by the State and Water Management District. The analysis showed the current soils infiltration rate as insufficient; therefore, a manmade infiltration underdrain/sidedrain system is to be incorporated into the design. With the underdrain system requirement there are additional design constraints which require the proposed drainage and grading system to be revised. Overall the proposed site elevations had to be raised 0.9 ft as well as additional storm pipes and underdrain added. The revised plans show all of the revisions but even with the changes being somewhat minor, in order to maintain the readability of the plans no revision clouds were added. The following list details the changes.
  - a. The entire site has been raised by 0.9 feet. (Revised Sheets C4 and C7)
  - b. The ditch on the West property line is proposed to be filled. (Revised Sheets C4 and C7)
  - c. A shallow swale is now proposed in place of the existing ditch. (Revised Sheets C3, C4 and C7)

MANATEE COUNTY PURCHASING  
1112 MANATEE AVENUE WEST, SUITE 803, BRADENTON, FLORIDA 34205  
PHONE: 941.749.3074 \* FAX: 941.749.3034 \* [deborah.carey-reed@mymanatee.org](mailto:deborah.carey-reed@mymanatee.org)  
*Board of County Commissioners \* [www.mymanatee.org](http://www.mymanatee.org)*

- d. A 15" RCP is proposed in place of the existing ditch. (Revised Sheet C4)
  - e. The existing mitered end section coming from off-site on the West property line is proposed to be removed and replaced with a yard inlet. (Revised Sheets C2 and C4)
  - f. A proposed 15" RCP connects the proposed yard inlet to the control structure in the pond. (Revised Sheet C4)
  - g. The existing 15" pipe running under the site is to be removed. (Revised Sheet C2)
  - h. An underdrain system has been proposed in the pond. (Revised Sheet C4)
  - i. The pond size has been revised. (Revised Sheets C3 and C4)
  - j. The grate inlet to which the pond discharges is proposed to be replaced. (Revised Sheets C2 and C4)
  - k. All of the appropriate details have been added. (Revised Sheets C5 and C6)
  - l. The cross sections have been revised to reflect all of the appropriate changes. (Revised Sheet C7)
3. Bid Form items 2 and 3 have been revised, per attached Addendum 3 Bid Form, for clarification.
4. Geotechnical Survey and Revised Plan Sheets (referenced in item 2 above) are attached.
5. Manatee County will be responsible for SWFWMD permits and off street parking permit. Contractor will be responsible for all other permits and permit payments.

Quotes will be received on January 12, 2011 by 3:00 P.M.



Deborah Carey-Reed, CPPB  
Manatee County Purchasing  
Construction Buyer

/dcr  
Attachments



**MANATEE COUNTY**  
**FLORIDA**

**REQUEST FOR QUOTATION**  
**(RFQ) #11-0334DC TRANSIT PARK AND RIDE STATION**  
**ADDENDUM #3**

**ATTENTION: DEBORAH CAREY-REED**  
**EMAIL: [deborah.carey-reed@mymanatee.org](mailto:deborah.carey-reed@mymanatee.org)**  
**PHONE (941) 749-3074 FAX (941) 749-3034**

Manatee County invites your participation in the following quotation. The specifications stated herein are of the minimum requirements for pricing submittal.

**INFORMATION CONFERENCE HELD ON DECEMBER 15, 2010 AT 10:30 A.M. AT THE PALMETTO TRANSIT BUS STATION, 1711 SEVENTH AVENUE WEST, PALMETTO**

**QUOTE DUE DATE: JANUARY 12, 2011 AT 3:00 P.M.**

We, the undersigned hereby declare that we have reviewed the quote documents and with full knowledge and understanding of the aforementioned, herewith submit our quote for a paved parking area and site improvements as specified. We understand that the specifications documents and general conditions in their entirety are made a part of any contract between the County of Manatee and the successful quoter(s).

**QUOTE "A" (150 CALENDAR DAY COMPLETION)**

TOTAL COST: \$\_\_\_\_\_ Complete

**QUOTE "B" (120 CALENDAR DAY COMPLETION)**

TOTAL COST: \$\_\_\_\_\_ Complete

Two schedules for Completion of the Work shall be considered. Each quote for completion by the specified stated time shall be offered as a separate "Total Cost." The County has the sole authority to select the quote based on the Completion Time which is in the best interest of the County.

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Phone Number

\_\_\_\_\_  
Fax Number

\_\_\_\_\_  
Address

\_\_\_\_\_  
License Number

\_\_\_\_\_  
Email address

\_\_\_\_\_  
Contact Person's Name (Print)

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
(Acknowledge Addendum, if applicable, by number and date)

**QUOTE CAN BE RETURNED VIA EMAIL**



# MANATEE COUNTY FLORIDA

## QUOTE FORM – TRANSIT PARK AND RIDE STATION

### **ADDENDUM #3**

ITEM	QUOTE "A" - 150 CALENDAR DAY COMPLETION	LUMP SUM
1.	Mobilization	\$
2.	Site Preparation and Miscellaneous Demolition	\$
3.	Excavation / Drainage and Grading	\$
4.	Paving and Striping	\$
5.	Sidewalks / Lighting	\$
6.	Landscape / Irrigation	\$
7.	Fencing / Signage	\$
8.	Miscellaneous Work and Cleanup	\$
	Discretionary Work	\$ 25,000.00
	<b>TOTAL PRICE – QUOTE "A"</b>	<b>\$</b>

ITEM	QUOTE "B" - 120 CALENDAR DAY COMPLETION	LUMP SUM
1.	Mobilization	\$
2.	Site Preparation and Miscellaneous Demolition	\$
3.	Excavation / Drainage and Grading	\$
4.	Paving and Striping	\$
5.	Sidewalks / Lighting	\$
6.	Landscape / Irrigation	\$
7.	Fencing / Signage	\$
8.	Miscellaneous Work and Cleanup	\$
	Discretionary Work	\$ 25,000.00
	<b>TOTAL PRICE – QUOTE "B"</b>	<b>\$</b>

Two schedules for Completion of the Work shall be considered. Each bid for completion by the specified stated time shall be offered as a separate "Total Bid Price." The County has the sole authority to select the bid based on the Completion Time which is in the best interest of the County.

QUOTER: \_\_\_\_\_

ADDENDUM 3 REVISED 12/28/2010





Ardaman & Associates, Inc.

Geotechnical, Environmental and  
Materials Consultants

December 17, 2010  
File No. 10-7224

TO: Schenkel Shultz Architects  
4890 West Kennedy Boulevard, Suite 930  
Tampa FL 33609

Attention: Mr. Drazen Ahmedic, AIA

SUBJECT: Double-Ring Infiltrometer Testing at "Palmetto Park and Ride," 19<sup>th</sup> Street West  
and 7<sup>th</sup> Avenue West, Palmetto, Manatee County, Florida

---

Dear Drazen:

As requested, our firm has performed one (1) double-ring infiltrometer test at the location shown on the attached Figure 1. This report will present the test results.

### **Infiltration Rate**

The double-ring infiltrometer test was performed based upon the procedures of ASTM D-3385. The test results are summarized on the attached Plate 1 and indicate a vertical infiltration rate of 0.6 inch/hour. The test depth (depth excavated) below the ground surface and the soil profile encountered are also listed on the Plate.

### **Water Table Levels**

At the time of our field exploration, the water table was not encountered within a depth of 4.5 feet below the ground surface. The boring was terminated at this depth due to hard soil/rock being encountered.

### **Interpretation**

The results of the double-ring infiltrometer test represent a vertical infiltration rate for the conditions under which the test was performed. In general, the infiltration rate measured near the end of the test is less than the vertical hydraulic conductivity (k) of the soils under saturated conditions, as complete saturation of the soils is generally not achieved by tests of this type and the hydraulic gradient of the seepage flows (infiltration) is generally less than 1.0 near the end of the test.

Some publications, such as EPA 65/1-81-013 recommend using a design infiltration rate that is a small percentage (typically 2% to 10%) of the infiltration rate measured by cylinder (ring) infiltrometers, to compensate for potential clogging of the infiltration service and to correct for a larger proportion of horizontal flow (relative to vertical flow) that occurs from a small test area relative to a full size infiltration basin area. This assumes, however, that the vertical infiltration capacity (or vertical hydraulic conductivity) is the limiting factor in the basin's infiltration capacity. At sites where there is a shallow water table or shallow restrictive layer, however, the infiltration capacity of the full size basin may be controlled by groundwater mounding, and not by the soil's vertical hydraulic conductivity. In this case, applying a percentage to a measured vertical infiltration rate or vertical hydraulic conductivity may over estimate the actual infiltration capacity of the full size basin and groundwater mounding analyses should be performed to determine if this is the limiting factor.

The soil profile is based upon the field boring logs and inspection of selected samples in the laboratory. The delineation between soil strata is approximate, and actual transitions between strata may be gradual. This report does not reflect any variations in subsurface soil conditions which may occur outside test locations.

We appreciate the opportunity of your service on this phase of your project. Please contact us when we may be of further service or if you should have any questions concerning this report.

Very truly yours,

ARDAMAN & ASSOCIATES, INC.  
*Certificate of Authorization No. 5950*

Jerry H. Kuehn, P.E.  
Senior Project Engineer  
Fl. Lic. No. 35557

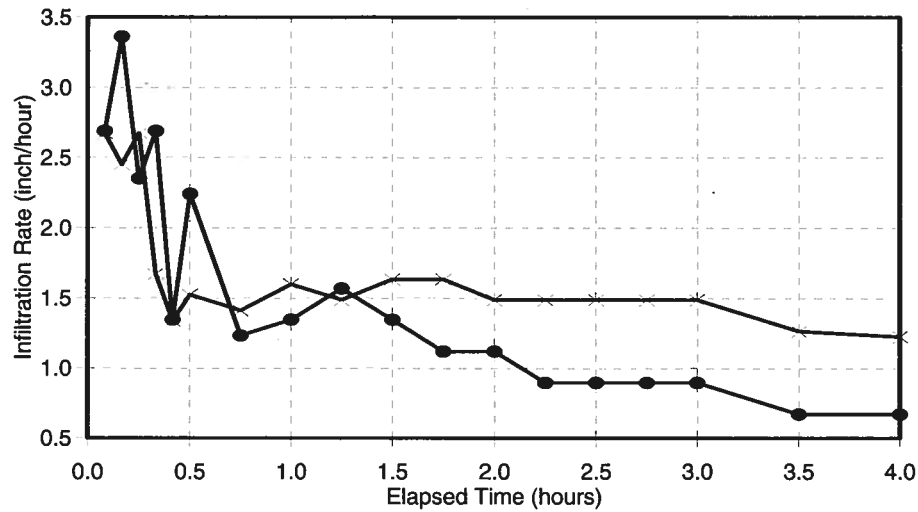
Gary H. Schmidt, P.E.  
Vice President  
Fl. Lic. No. 12305

JHK/GHS:nh

cc: Jeb Mulock - ZNS Engineering



# Double-Ring Infiltrometer



● Inner Ring — Outer Ring

## GRAPH DATA:

Elapsed Time (hr:min)	Infiltration Rates	
	Inner Ring (inch/hour)	Outer Ring (inch/hour)
0:05	2.7	2.7
0:10	3.4	2.5
0:15	2.4	2.7
0:20	2.7	1.7
0:25	1.3	1.3
0:30	2.2	1.5
0:45	1.2	1.4
1:00	1.3	1.6
1:15	1.6	1.5
1:30	1.3	1.6
1:45	1.1	1.6
2:00	1.1	1.5
2:15	0.90	1.5
2:30	0.90	1.5
2:45	0.90	1.5
3:00	0.90	1.5
3:30	0.67	1.3
4:00	0.67	1.2

## TEST NUMBER:

**DRI-1**

Test Date: 15-Dec-10  
 Depth Excavated (inch): 6  
 Inner Ring - Outside Dia. (inch): 12.1  
 - Inside Dia. (inch): 11.8  
 - Water Depth (inch): 6  
 Outer Ring - Inside Dia. (inch): 23.8  
 - Water Depth (inch): 6

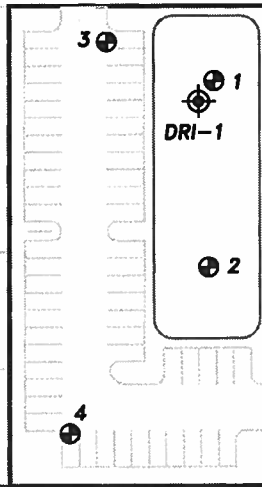
## SOIL PROFILE:

Depth (ft)		Soil Description
From	To	
0.0	0.5	dark brown clayey fine sand
0.5	1.5	brown fine sand with clay
1.5	3.3	brown clayey fine sand
3.3	3.5	black clayey fine sand (muck)
3.5	4.0	light gray sandy silt
4.0	4.5	light gray calcareous silt
		(hard soil/rock encountered at 4.5')
N.E. ==>		existing water table (not encountered)

<b>Ardaman &amp; Associates, Inc.</b> Geotechnical, Environmental and Materials Consultants		
Palmetto Park and Ride, 19th Street West, Palmetto, Manatee County, Florida		
DRAWN BY: JK	CHECKED BY:	DATE: 12/16/10
FILE NO. 10-7224	APPROVED BY: <i>[Signature]</i>	PLATE: 1

19th STREET WEST

7th AVENUE WEST


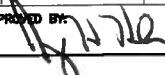


- ⊕ TEST BORING LOCATIONS
- ⊗ DOUBLE RING INFILTRMETER LOCATION



SCALE: 1"=100'

REVISED 12-16-10:  
DRI-1 added.

			
Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
Test Locations Palmetto Park & Ride Manatee County, Florida			
DRAWN BY: KGS	CHECKED BY:	DATE: 6/18/10	
FILE NO. 10-7224	APPROVED BY: 	FIGURE: 1	

Base Drawing By: ZNS engineering



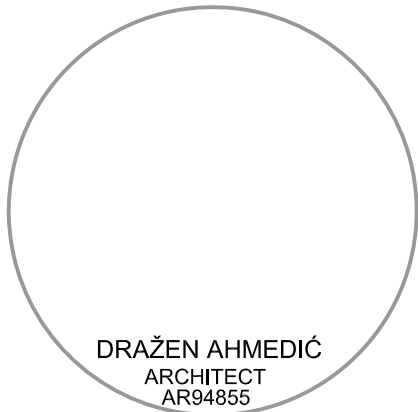


# Park And Ride

1711 7th Avenue West Palmetto, FL 34221

**SCHENKELSHULTZ**  
ARCHITECTURE  
677 North Washington Blvd.  
Sarasota, FL 34236  
voice 941.952.5875  
fax 941.957.3630  
schenkelshultz.com  
SS Lic No - AA-C000937

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  - E502 ELECTRICAL RISER



## location map



## Park And Ride

1711 7th Avenue West  
Palmetto, FL 34221

Client:  
Manatee County Government  
1112 Manatee Avenue West  
Bradenton, FL 34208

revisions:  
12.27.2010  
ADDENDUM 3

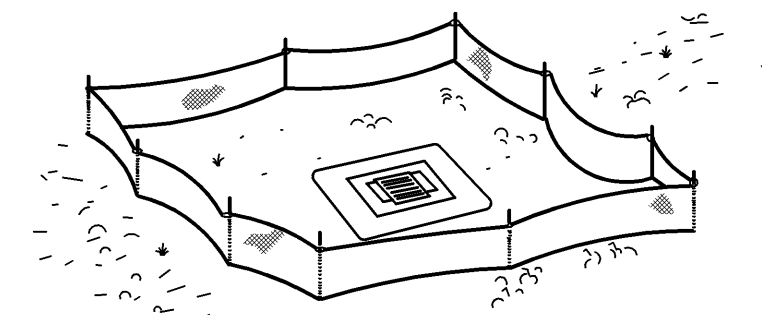
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date: 09.13.2010  
comm. no.: 1020805

## COVER SHEET

# T001

100% Construction Documents

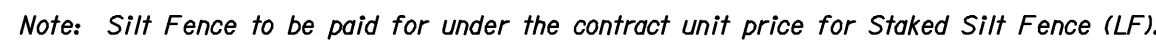




*Type III Silt Fence Protection  
Around Ditch Bottom Inlets.*

*Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.*

N.T.S.



N.T.S

N.T.S



N.T.S



N.T.S.

1. TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION, STAKED HAYBALES, STAKED SILT SCREENS OR INLET DEBRIS CONTROL SCREENS ARE TO BE PLACED AT STORM INLETS, OUTFALL LOCATIONS AND ADJACENT PROPERTY LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES.

SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED  
MANATEE COUNTY NATURAL RESOURCES DEPARTMENT PRIOR TO COMMENCEMENT OF CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION BARRIERS IN A WORKING MANNER FOR THE DURATION OF CONSTRUCTION AND SHOULD BE CHECKED DAILY. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SEDIMENTATION BARRIER SHALL BE IMMEDIATELY REMOVED. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENTATION BARRIERS IN A WORKING MANNER AT ALL TIMES. THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR POTENTIAL EROSION PROBLEMS. IF PROBLEMS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION CONTROL IMMEDIATELY. STORMWATER TREATMENT FACILITIES INCLUDING OUTFALL PER DETAIL ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO OFF-SITE UNTREATED RUN-OFF OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL CONSTRUCTION AND FINAL STABILIZATION.

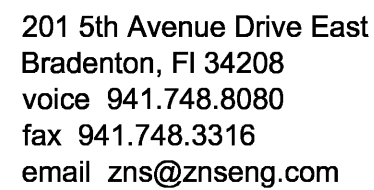
2. CONTRACTOR TO KEEP CONSTRUCTION ACTIVITIES AND EQUIPMENT TO A MINIMUM AT OUTFALL LOCATIONS WHICH DISCHARGE TO EXISTING JURISDICTIONAL AREAS. FLOATING OR STAKED TURBIDITY BARRIERS MAY BE USED IN LIEU OF STAKED HAYBALES/SILT SCREENS HERE WARRANTED.
3. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN-PLACE UNTIL THE SITE HAS BEEN STABILIZED AND REVEGETATED.
4. CONSTRUCTION METHOD AND MATERIALS TO BE IN ACCORDANCE WITH SECTION 104-6 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION SPECIFICATIONS.
  - a) HAY BALES MUST BE BUTTED CLOSE TOGETHER AND HAVE NO GAPS TO ALLOW FLOW TO PASS THROUGH WITHOUT BEING FILTERED.
  - b) JOINTS OF THE FILTER FABRIC MUST BE OVERLAPPED AND PROPERLY CONNECTED TO PREVENT ANY OPENING FROM OCCURRING.

THE UNDERSIGNED, AS AN AUTHORIZED REPRESENTATIVE OF MANATEE COUNTY GOVERNMENT, ACKNOWLEDGES RESPONSIBILITY FOR BEST MANAGEMENT PRACTICES AS THEY RELATE TO THE EROSION AND CONTROL AND SURFACE WATER MANAGEMENT SYSTEMS.

APPLICANT ACKNOWLEDGEMENT SIGNATURE  
(PER S.W.F.W.M.D. DIRECTIVE)

**JEB C. MULOCK**  
PROFESSIONAL ENGINEER #64692

SIGNATURE



1711 7th Avenue West  
Palmetto, FL 34221

**Client:**  
Manatee County Government  
1112 Manatee Avenue West  
Bradenton, FL 34208

Revisions:  
 Addendum 3 - Revised Drainage and Grading (Pond Size, Stormwater Pipes, Added Underdrain, Raised Elevations, Revised Cross Sections and Details)  
 Date: 12.27.2010

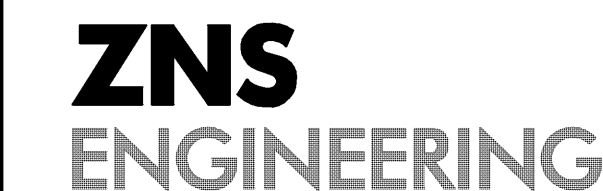
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comm. no.: 1020805

## BEST MANAGEMENT PRACTICES

# C1

100%  
Construction Documents





201 5th Avenue Drive East  
Bradenton, FL 34208  
voice 941.748.8080  
fax 941.748.3316  
email [zns@znseng.com](mailto:zns@znseng.com)

1711 7th Avenue West  
Palmetto, FL 34221

**Client:**  
Manatee County Government  
1112 Manatee Avenue West  
Bradenton, FL 34208

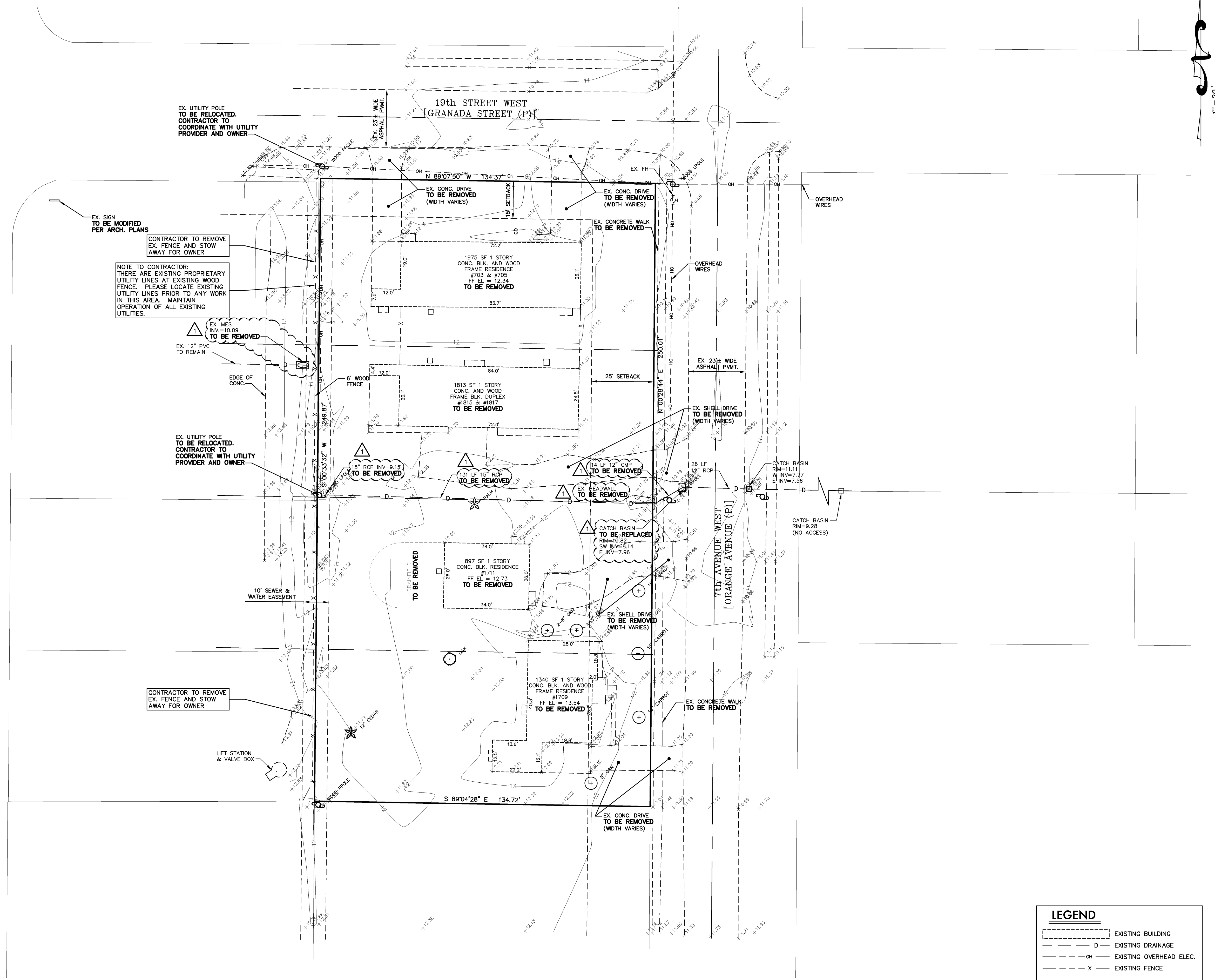
Revisions:

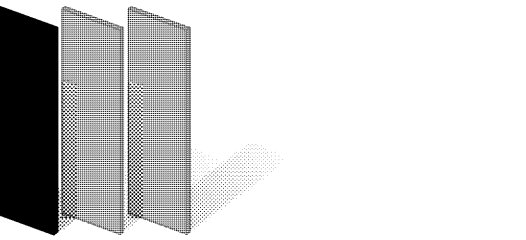
1	Addendum 3 - Revised Drainage and Grading (Pond Size, Stormwater Pipes, Added Underdrain, Raised Elevations, Revised Cross Sections and Details) Date: 12.27.2010
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drawn: MF  
checked: JCM  
date: 10.08.2010  
comm. no.: 1020805

## C2

100%  
Construction Documents





**ZNS**  
ENGINEERING

201 5th Avenue Drive East  
Bradenton, FL 34208  
voice 941.748.8080  
fax 941.748.3316  
email zns@znseng.com

## Park And Ride

1711 7th Avenue West  
Palmetto, FL 34221

### Client:

Manatee County Government  
1112 Manatee Avenue West  
Bradenton, FL 34208

### Revisions:

- △ Addendum 3 - Revised Drainage and Grading (Pond Size, Stormwater Pipes, Added Underdrain, Raised Elevations, Revised Cross Sections and Details)  
Date: 12.27.2010

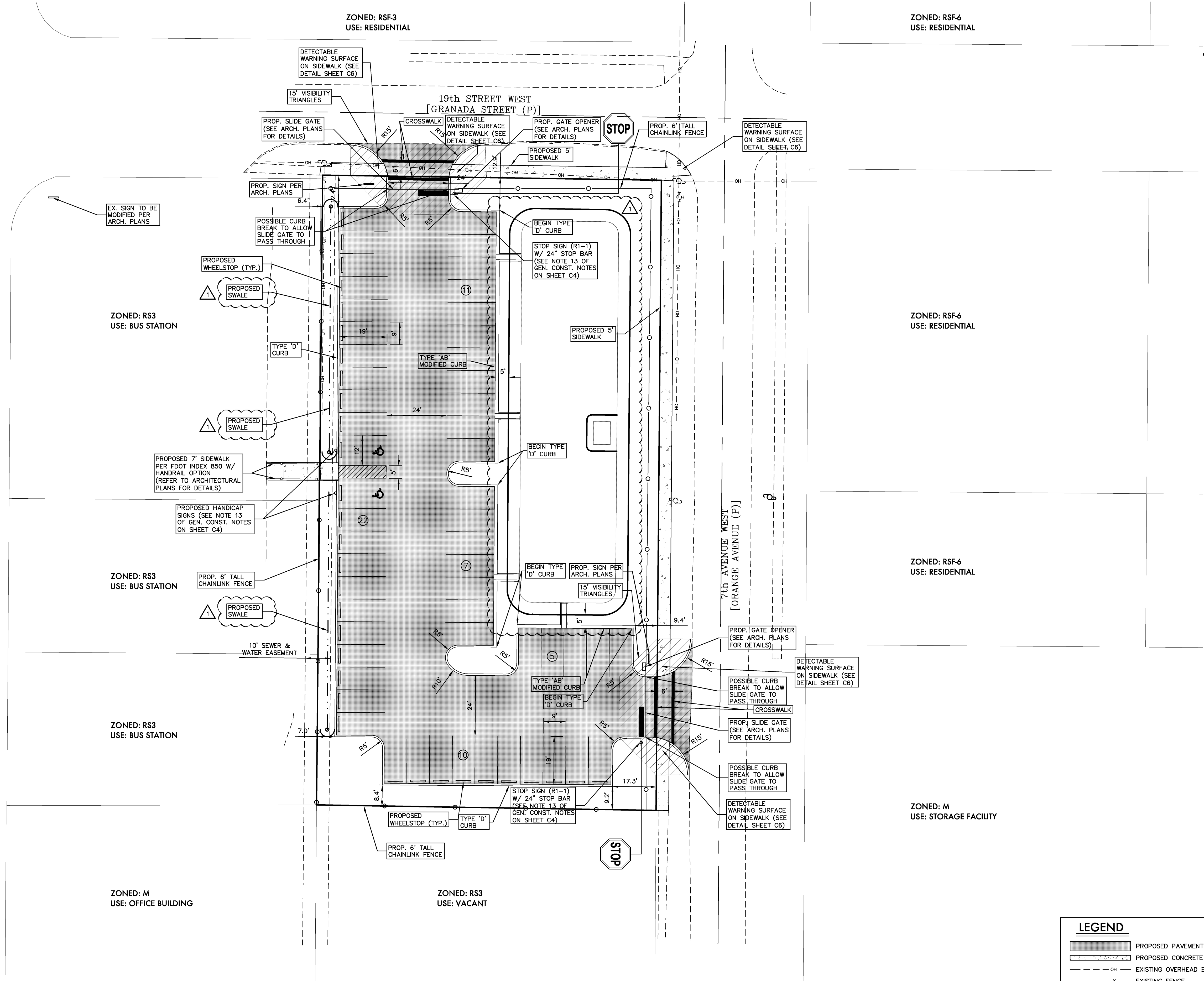
drawn: MF  
checked: JCM  
date: 10.08.2010  
comm. no.: 1020805

## OFFSTREET PARKING PLAN

**C3**

100%  
Construction Documents

8th AVENUE WEST  
[BUSINESS US 41]



### LEGEND

- PROPOSED PAVEMENT  
PROPOSED CONCRETE  
OH EXISTING OVERHEAD ELEC.  
X EXISTING FENCE



## Park And Ride

1711 7th Avenue West  
Palmetto, FL 34221

Client:  
Manatee County Government  
1112 Manatee Avenue West  
Bradenton, FL 34208

Revisions:  
△ Addendum 3 - Revised Drainage and Grading (Pond Size, Stormwater Pipes, Added Underdrain, Raised Elevations, Revised Cross Sections and Details)  
Date: 12.27.2010

drawn: MF  
checked: JCM  
date: 10.08.2010  
comm. no.: 1020805

## DRAINAGE AND GRADING PLAN

C4

100%  
Construction Documents

## DRAINAGE AND GRADING NOTES

- ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
  - THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWING ALL IMPROVEMENT LOCATIONS AND ELEVATIONS IN ACCORDANCE WITH LATEST MANATEE COUNTY PLANNING, PERMITTING AND INSPECTIONS (MCPRI) AND SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) STANDARDS. THE CONTRACTOR SHALL ALSO PROVIDE FIVE SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, OF THE RECORD DRAWINGS TO THE ENGINEER OF RECORD. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER, APPROPRIATE GOVERNMENTAL AGENCIES AND TO ZNS ENGINEERING, L.C. RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE STORMWATER FACILITY LOCATIONS, INCLUDING TOP OF BANK, UNDERDRAIN AND CONTROL STRUCTURES, SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL PROPOSED OUTFALL CONTROL STRUCTURES. RECORD DRAWINGS OF ALL MITIGATION AREAS INCLUDING ELEVATIONS, ZONES AND LIMITS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. THE RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE THE SURFACE AREA OF STORMWATER FACILITY AREAS AT NORMAL WATER ELEVATION (NWL) AT HIGH WATER ELEVATION (HWL ±), TOP OF BANK AND ALL MITIGATION AND/OR LITTORAL SHELF AREAS.
  - TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION, STAKED HAYBALES, STAKED SILT SCREENS OR INLET DEBRIS CONTROL SCREENS ARE TO BE PLACED AT STORM INLETS, OUTFALL LOCATIONS AND ADJACENT PROPERTY LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED BY MANATEE COUNTY NATURAL RESOURCES DIVISION (749-3070) PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION BARRIERS IN A WORKING MANNER FOR THE DURATION OF CONSTRUCTION AND SHOULD BE CHECKED DAILY. SITUATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SEDIMENTATION BARRIER SHALL BE IMMEDIATELY REMOVED AND REPLACED IN UPLAND AREAS. IN ADDITION TO SPECIFIED EROSION CONTROL LOCATIONS, THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR POTENTIAL EROSION PROBLEMS. IF PROBLEMS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION CONTROL IMMEDIATELY. STORMWATER TREATMENT FACILITIES INCLUDING OUTFALL PER DETAIL ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO OFF-SITE UNTREATED RUN-OFF OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL CONSTRUCTION AND FINAL STABILIZATION.
- ALL PIPE LENGTHS SHOWN ON PLAN VIEW ARE TO THE END OF THE MITERED END SECTION. REFER TO MITERED END SECTION DETAIL FOR LENGTH OF PIPE TO BE INCLUDED IN PRICE FOR MITERED END SECTION.
  - TOPOGRAPHIC AND PROPERTY SURVEYS GIVING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATIONS AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO THE CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOIL TESTS HE MAY DEEM NECESSARY TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED.
  - THE CONTRACTOR SHALL VERIFY TOPOGRAPHY AND SATISFY HIMSELF AS TO THE EXTENT OF FILL NECESSARY TO ACHIEVE FINISHED GRADE PRIOR TO AWARD OF CONTRACT. THERE SHALL BE NO CLAIM FOR EXTRAS NOTWITHSTANDING SITE PLAN REVISIONS PROMULGATED SUBSEQUENT TO AWARD OF CONTRACT.
  - ALL BIDDERS ARE HEREBY ADVISED THAT ALL EXCAVATION ON THIS PROJECT MUST COMPLY WITH FLORIDA STATUTE 90% "TRENCH SAFETY ACT", AND THAT THE COST OF COMPLIANCE IS TO BE INCLUDED IN HIS BASE BID. THE BIDDER SHALL INDICATE ON THE BID FORM THE COSTS ASSOCIATED WITH COMPLIANCE.
  - SUITABLE FILL MATERIAL FROM STORMWATER FACILITIES EXCAVATION SHALL BE UTILIZED FOR PROJECT FILL PER GRADING SPECIFICATIONS. UNSUITABLE MATERIAL SHALL BE PLACED IN OPEN AREAS ONLY AS DIRECTED BY THE PROJECT ENGINEER AND SOILS ENGINEER.
  - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.
  - REFER TO GRADING DETAIL SHEETS FOR CROSS SECTION DETAILS.
  - REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
  - ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
  - THE CONTRACTOR IS TO REVIEW SOILS TESTS AS PERFORMED BY THE SOIL CONSULTANT AND IS ENCOURAGED TO CONDUCT ON-SITE TESTING TO SATISFY HIMSELF AS TO ACTUAL LIMITS OF REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS PRIOR TO BIDDING.
  - ALL CONTROL STRUCTURES SHALL HAVE A SEPARATE TOP SLAB TO ALLOW FOR FINAL ADJUSTMENT TO DESIGN GRADE. PRECAST CONTROL STRUCTURES SHALL BE CAST SO AS TO ALLOW A MINIMUM OF 6" OF BRICK ADJUSTMENT FOR CONSTRUCTION OF THE WEIR(S).
  - ON SLOPES GREATER THAN 3:1 PEGGING OR PINNING OF SOD MAY BE REQUIRED.

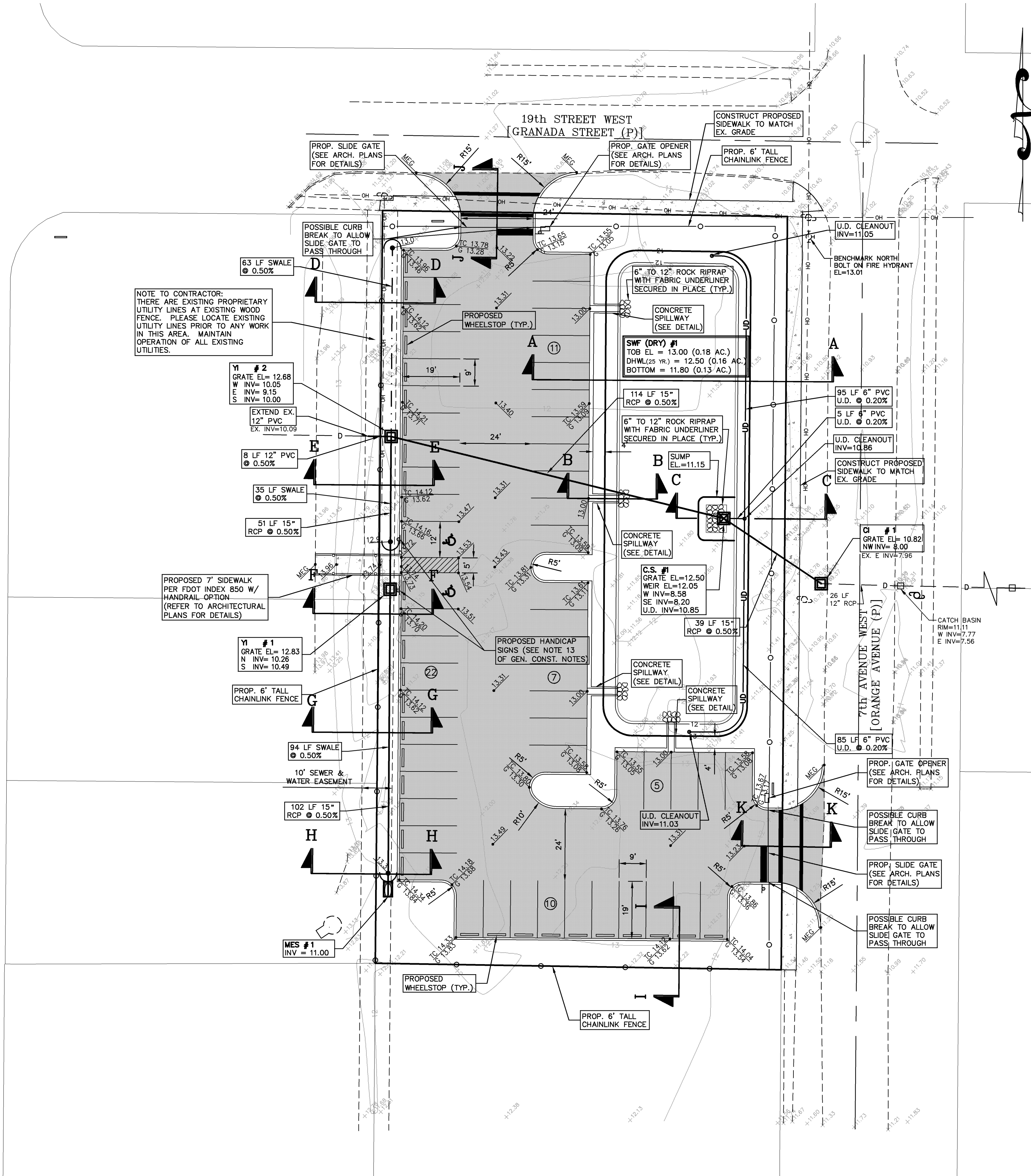
## GENERAL CONSTRUCTION NOTES

- ALL PROPOSED CONSTRUCTION IS TO MEET OR EXCEED LATEST APPLICABLE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS (LATEST REVISION NOVEMBER, 1999) AND IS TO MEET ENGINEER'S SPECIFICATIONS. ALL PROPOSED CONSTRUCTION IS TO BE PUBLICLY OWNED AND MAINTAINED FOLLOWING COMPLETION AND ACCEPTANCE. RIGHT OF WAY AND OTHER OFF-SITE IMPROVEMENTS SHALL BE PUBLICLY OWNED AND MAINTAINED FOLLOWING COMPLETION AND ACCEPTANCE.
- THE CONTRACTOR IS TO COORDINATE THE LOCATION AND ELEVATION OF ALL UTILITY AND IRRIGATION SERVICE SLEEVES WITH RESPECTIVE AGENCY PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL UNDERGROUND UTILITIES AND STORM SEWER IS CONSTRUCTED, TESTED AND OPERATIONAL PRIOR TO ANY ROADWAY CONSTRUCTION.
- ALL PROPOSED ELECTRICAL AND COMMUNICATION SERVICES ARE TO BE LOCATED UNDERGROUND AS DIRECTED BY RESPECTIVE AGENCY.
- CURBING AT SIDEWALK INTERSECTIONS TO BE RECESSED FOR PEDESTRIAN RAMPS. RAMPS TO BE CONSTRUCTED AT TIME OF CURB RADI.
- CONTRACTOR TO OBTAIN APPLICABLE PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND ISSUANCE OF ALL COMMENCEMENT AND/OR PROGRESS NOTICES TO GOVERNMENTAL AGENCIES DURING THE COURSE OF CONSTRUCTION, AS REQUIRED FOR INSPECTION, TESTING AND TRACKING PER APPLICABLE AGENCY PERMIT CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMIT CONDITIONS AND STIPULATIONS FOR ALL LOCAL, REGIONAL AND STATE AGENCIES, INCLUDING, BUT NOT LIMITED TO, FINAL SITE PLANS, UTILITIES, DRAINAGE, FUGITIVE PARTICULATES AND EROSION.
- ALL UTILITIES AND/OR DRAINAGE SHOWN AS EXISTING WERE DERIVED FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION, SIZE, TYPE AND AMOUNT OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR TO NOTIFY SUNSHINE UNDERGROUND FACILITIES NOTIFICATION (1-800-432-4770), MCPWD AND FP&L 48 HOURS MINIMUM PRIOR TO START OF CONSTRUCTION FOR POSSIBLE UTILITY LOCATIONS NOT SHOWN ON PLANS.
- RIGHT-OF-WAY USE PERMIT TO BE OBTAINED BY THE CONTRACTOR FOR OFF-SITE CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ESTIMATING AND CALCULATING ALL CUT AND FILL QUANTITIES. PRIOR TO BID SUBMISSION THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOIL TESTS HE DEEMS NECESSARY TO CALCULATE THE CUT AND FILL QUANTITIES PROPERLY. ADDITIONAL SURVEYS AND TESTS MADE BY THE CONTRACTOR SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- ALL EASEMENTS AS SHOWN WITHIN THE PROJECT BOUNDARY LIMITS ARE TO BE CONSIDERED PUBLIC (UNLESS OTHERWISE STATED).
- THERE ARE NO KNOWN WELLS WITHIN THE BOUNDARIES OF THIS PLAN, CONNECTION IS TO BE MADE TO THE WELL ON THE ADJACENT BUS STATION SITE.
- ALL SIGN POSTS ARE TO BE ROUND ALUMINUM POLES.

## NOTE

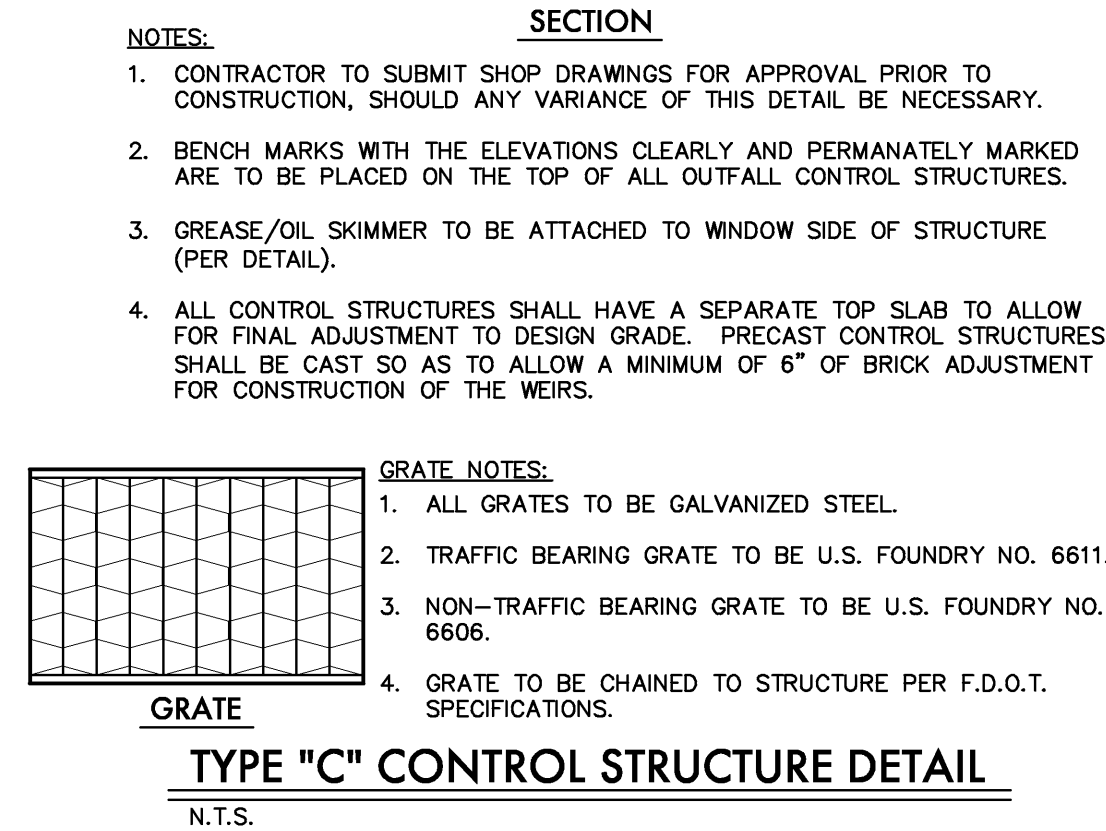
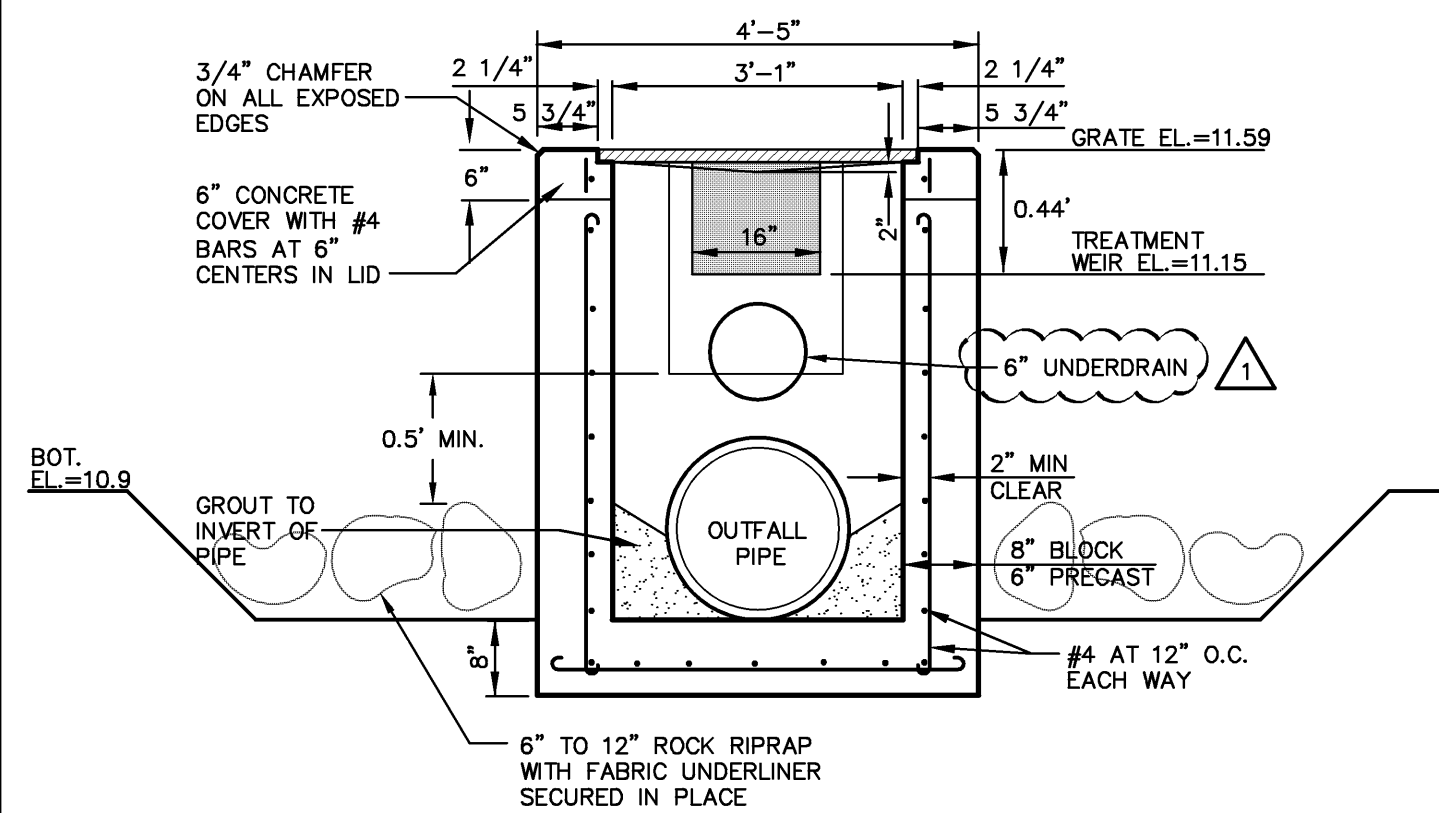
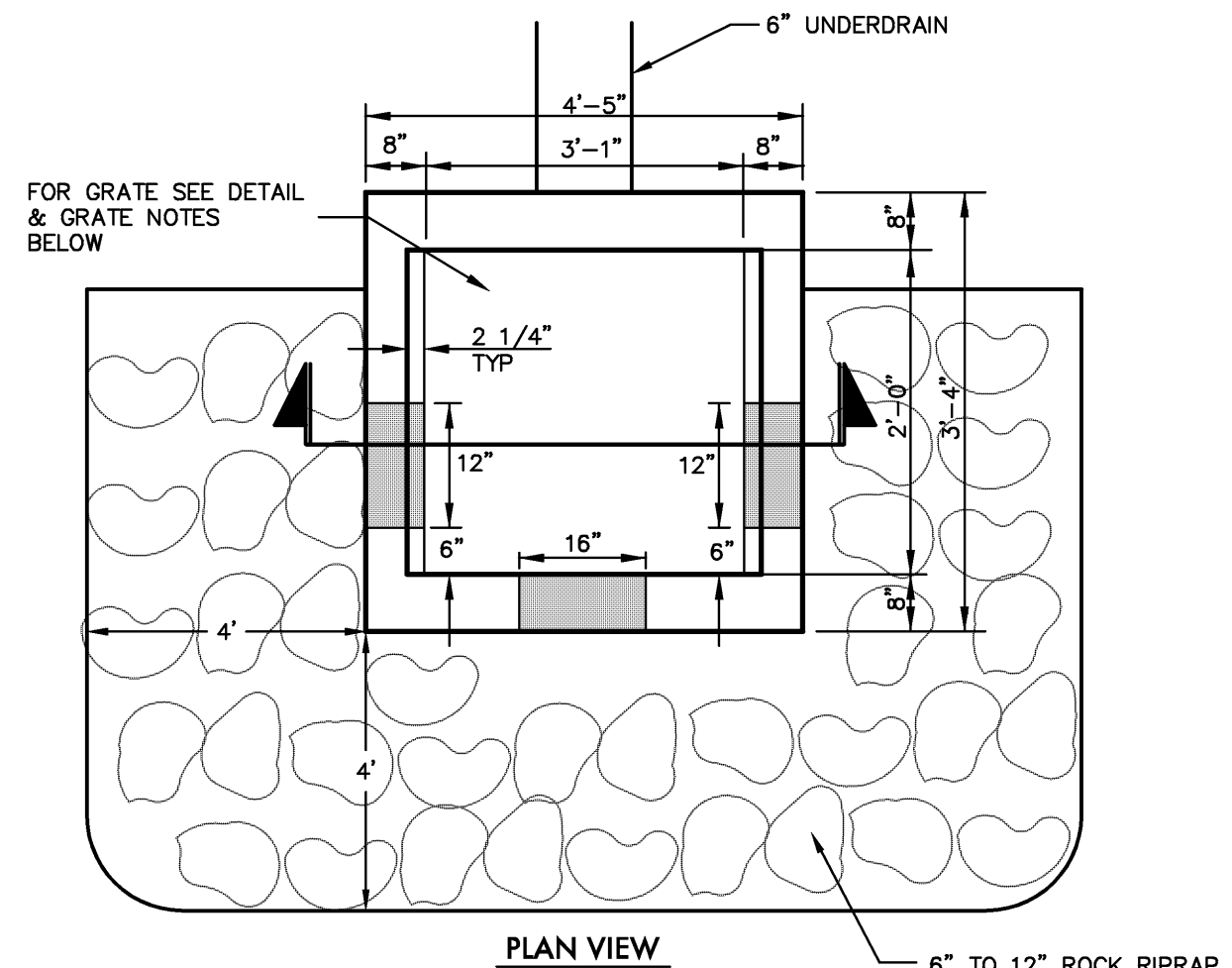
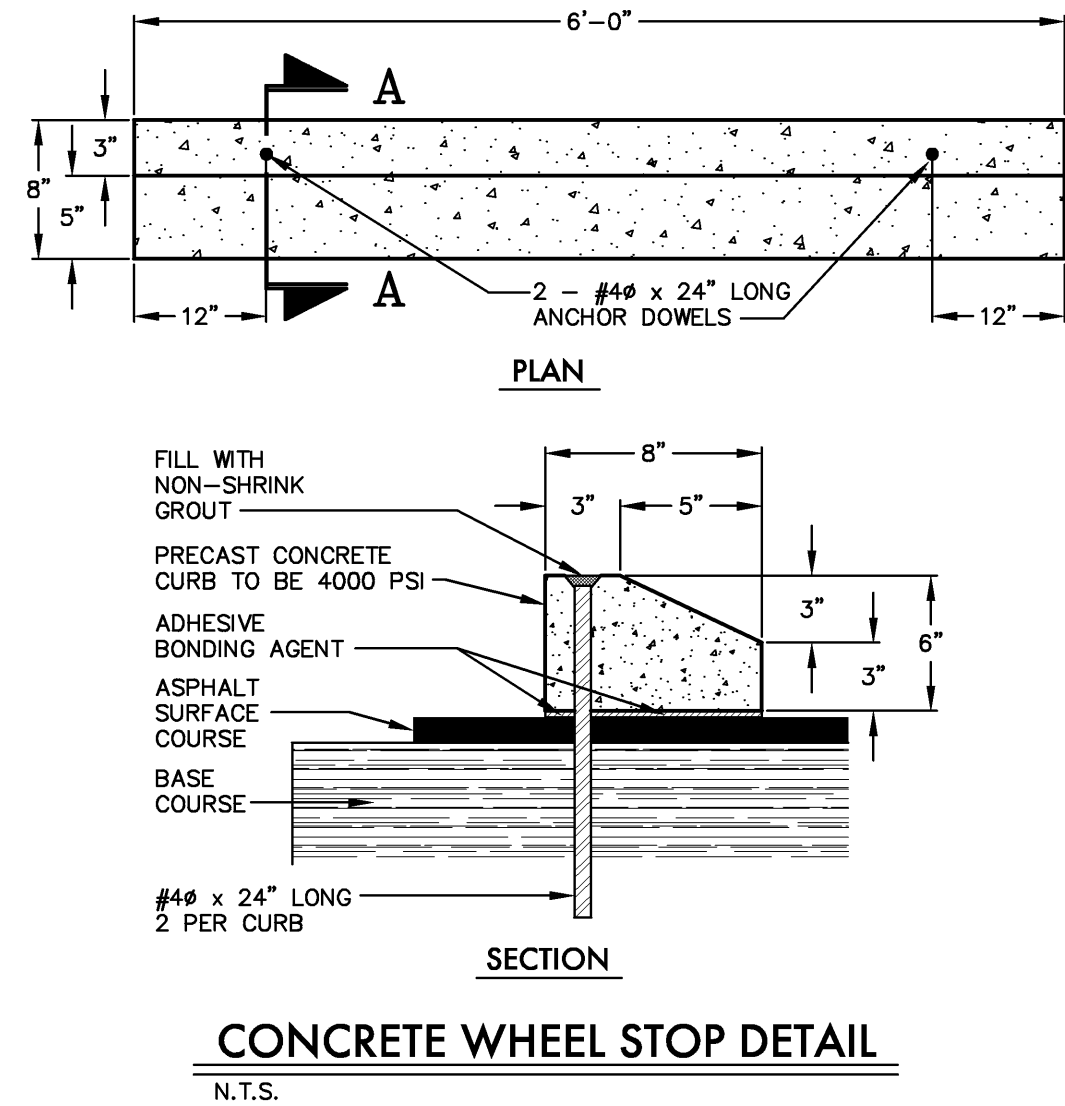
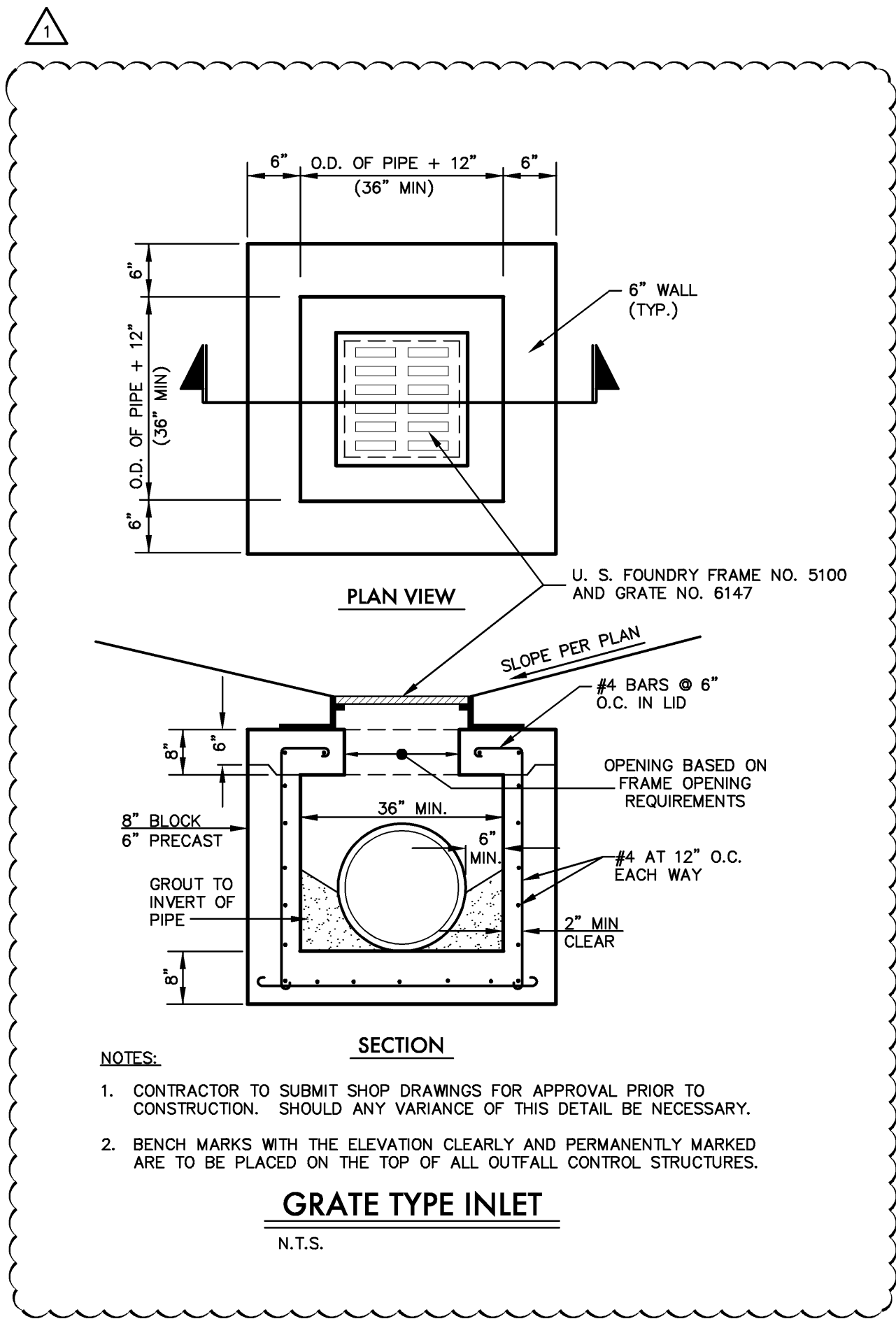
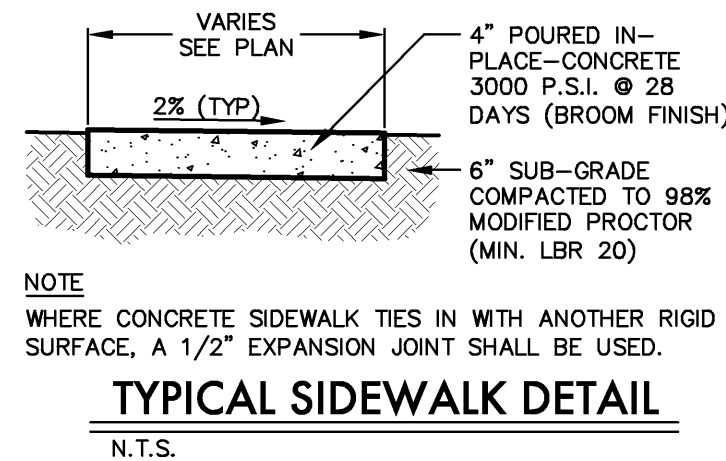
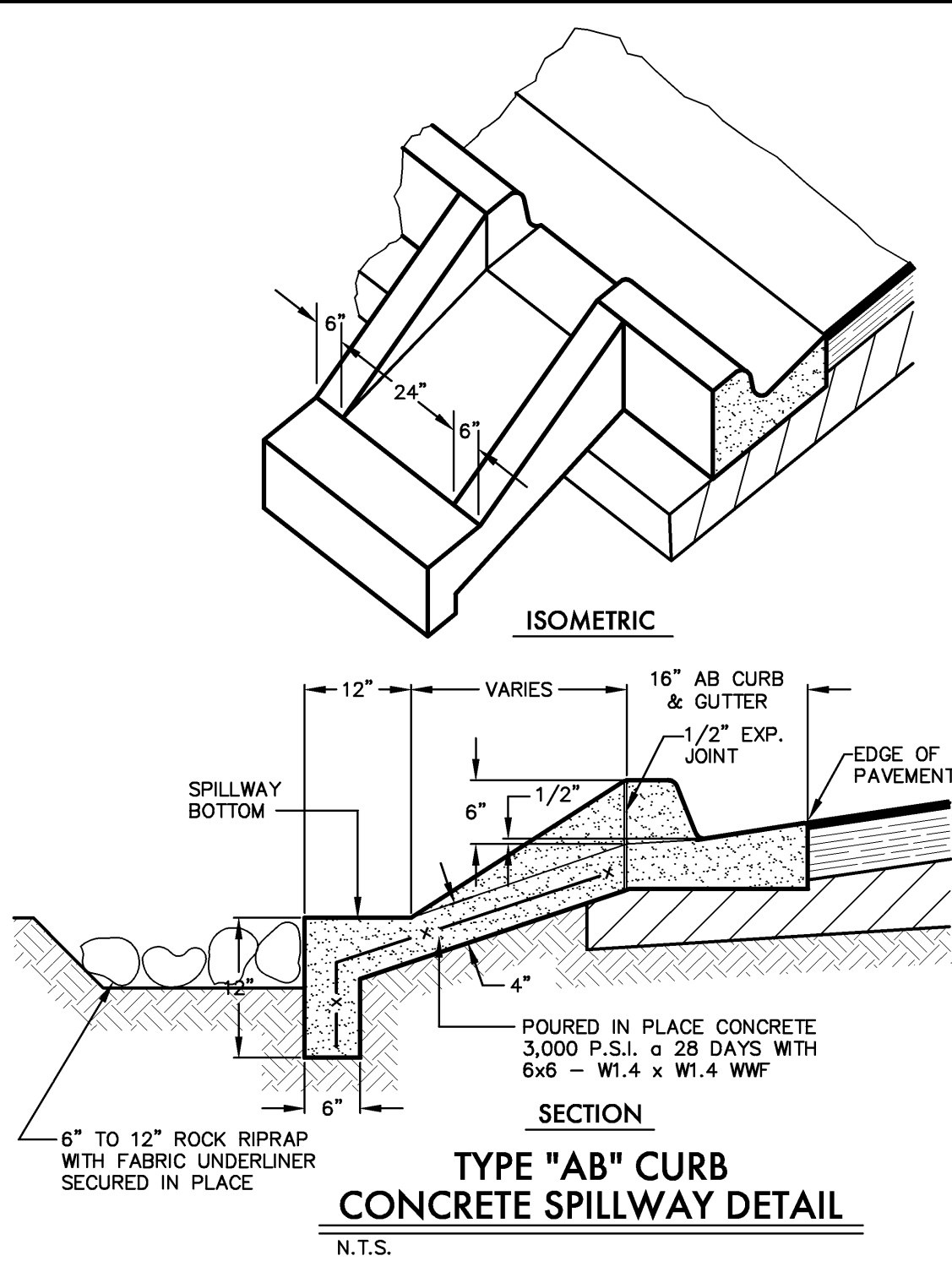
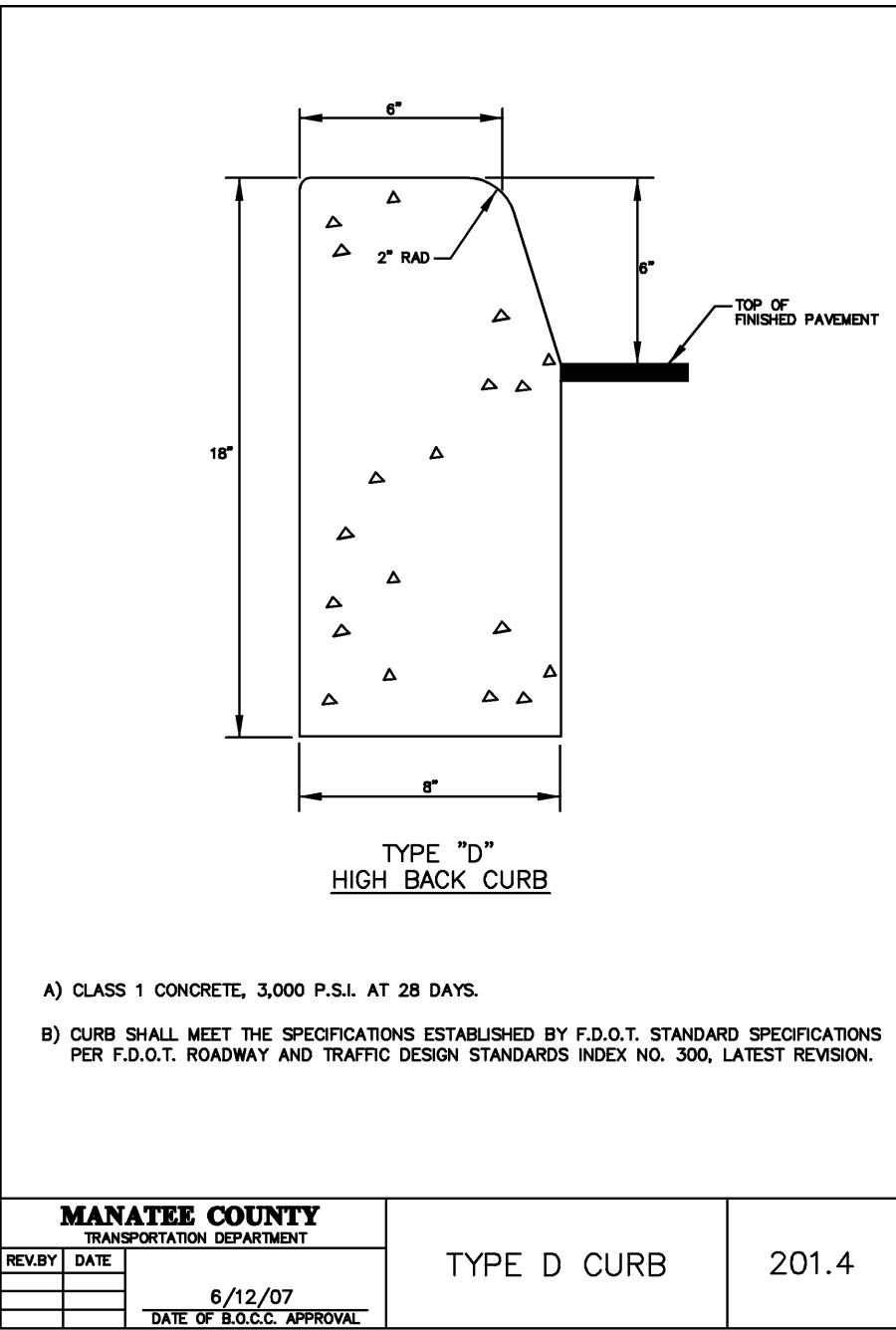
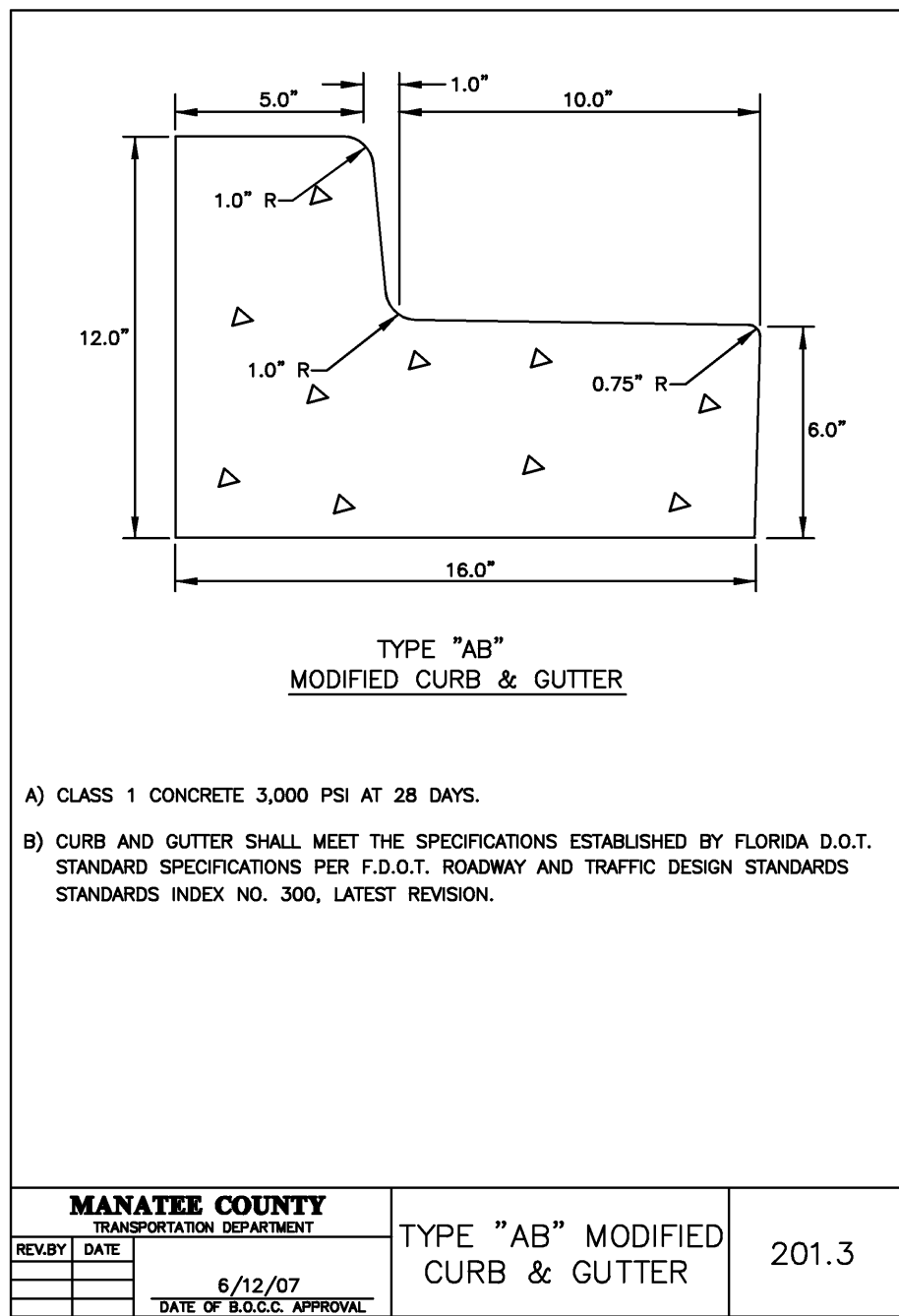
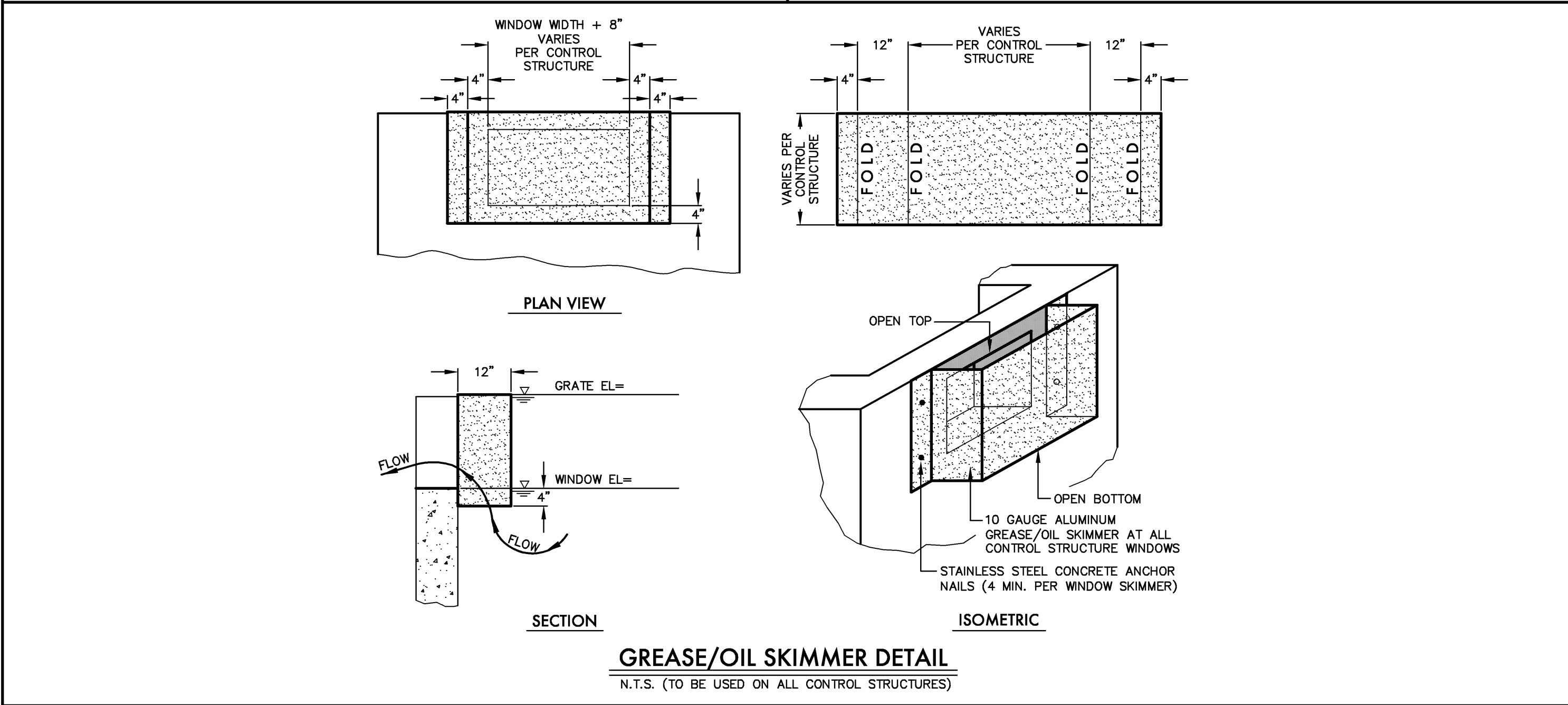
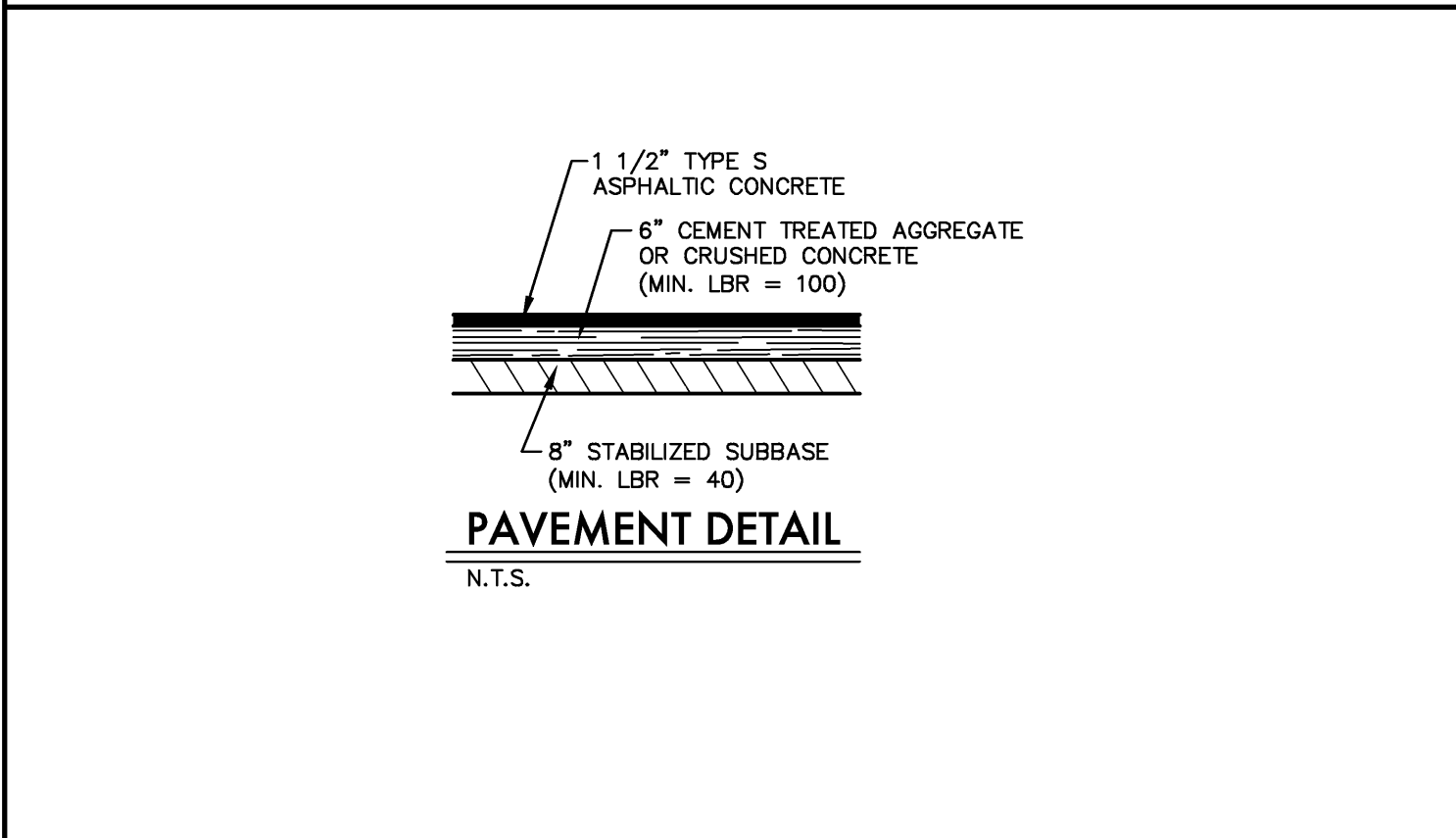
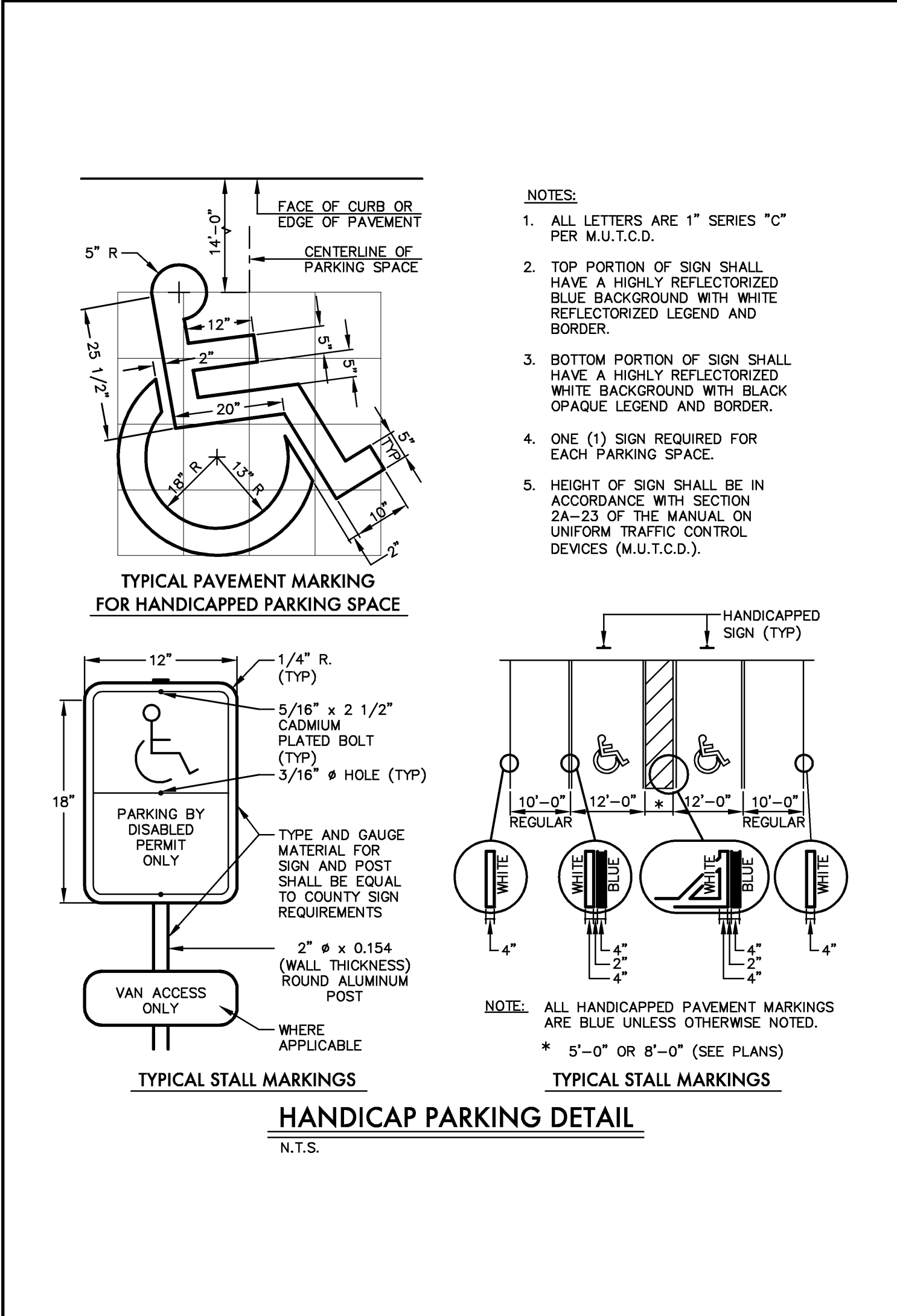
THE DESIGN AND DETAILS AS INDICATED ON THESE PLANS REFLECT THE CURRENT COUNTY PRACTICES AND INTERPRETATIONS RELATED TO THE COUNTY REGULATIONS. THESE PRACTICES AND INTERPRETATIONS MAY NOT BE IDENTICAL TO THE REGULATIONS AS ARE CURRENTLY WORDED AND ARE SUBJECT TO CHANGE.

8th AVENUE WEST  
[BUSINESS US 41]

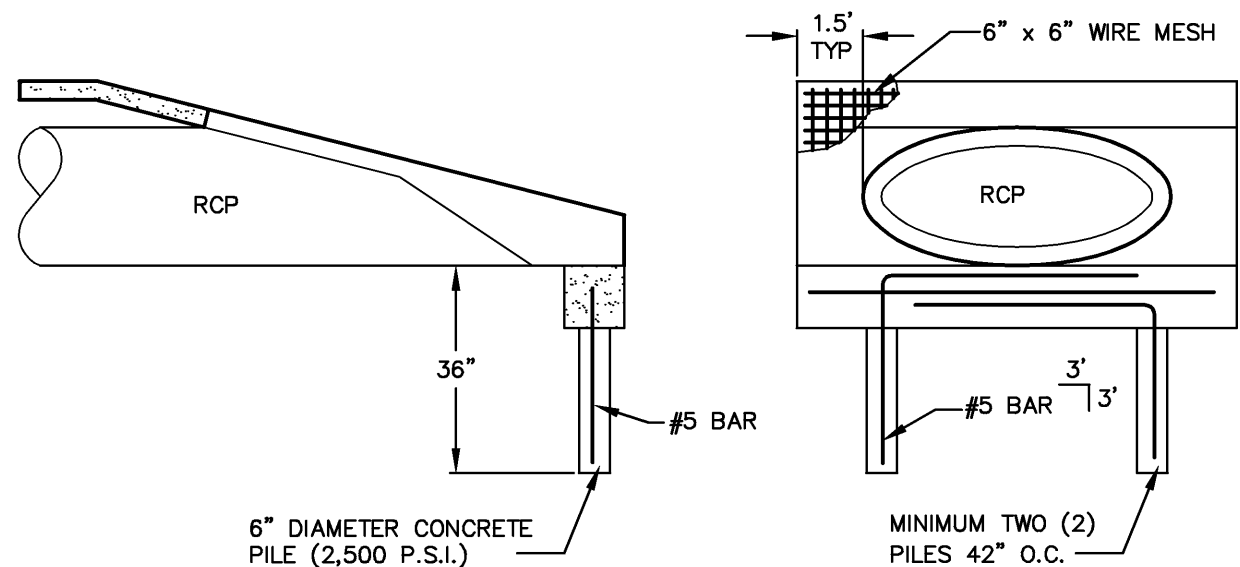


### LEGEND

- PROPOSED PAVEMENT
- PROPOSED SIDEWALK
- EXISTING OVERHEAD ELEC.
- EXISTING FENCE
- PROPOSED CONTOUR



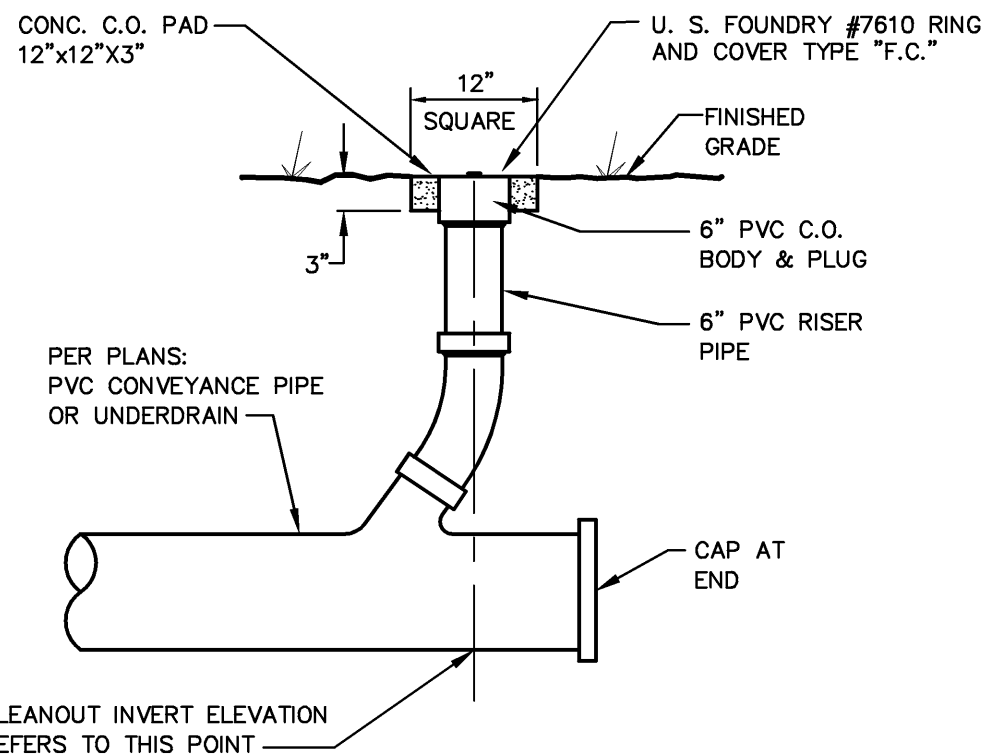




NOTE:  
SEE MITERED END SECTION DETAIL FOR MITERED END SECTION SPECIFICATIONS.

### MITERED END SECTION FOOTER DETAIL

N.T.S.



### UNDERDRAIN CLEANOUT DETAIL

N.T.S.

# ROUND PIPE

DIMENSIONS AND QUANTITIES										M				Qsdt.	
	D	X	A	B	C	E	F	G		Single	Double	Tripla	Pipe		
										Pipe	Pipe	Pipe			
2d Slope	18"	2'-2"	1.92'	2.48'	4.47'	2.06'	5'	1.22'	4.63'	7.51'	9.79'	12.57'	12.57'	12.57'	
	18"	2'-4"	1.98'	2.74'	4.71'	2.36'	6'	1.41'	4.92'	7.75'	10.58'	13.42'	13.42'	13.42'	
	18"	2'-6"	2.05'	2.99'	4.95'	2.66'	7'	1.59'	5.21'	8.08'	10.91'	13.75'	13.75'	13.75'	
	30"	2'-3"	2.25'	4.59'	7.47'	4.56'	6'	2.00'	6.08'	10.33'	14.58'	18.83'	18.83'	18.83'	
	30"	2'-4"	2.32'	4.84'	7.71'	4.86'	7'	2.19'	6.37'	10.73'	14.98'	19.23'	19.23'	19.23'	
	30"	2'-5"	2.39'	5.09'	7.95'	5.16'	8'	2.38'	6.66'	11.13'	15.38'	19.63'	19.63'	19.63'	
	42"	2'-2"	2.45'	5.33'	8.19'	5.46'	9'	2.57'	6.95'	11.53'	15.78'	20.03'	20.03'	20.03'	
	42"	2'-4"	2.52'	5.58'	8.43'	5.76'	10'	2.76'	7.24'	11.93'	16.18'	20.43'	20.43'	20.43'	
	42"	2'-6"	2.59'	5.83'	8.67'	6.06'	11'	2.95'	7.53'	12.33'	16.58'	20.83'	20.83'	20.83'	
	60"	2'-2"	2.65'	6.07'	8.91'	6.36'	12'	3.14'	7.82'	12.73'	16.98'	21.23'	21.23'	21.23'	
4d Slope	18"	2'-2"	2.21'	4.09'	6.36'	4.03'	6'	1.22'	4.63'	7.51'	9.79'	12.57'	12.57'	12.57'	
	18"	2'-4"	2.28'	4.34'	6.60'	4.33'	7'	1.41'	4.92'	7.75'	10.58'	13.42'	13.42'	13.42'	
	18"	2'-6"	2.35'	4.59'	6.84'	4.63'	8'	1.59'	5.21'	8.08'	10.91'	13.75'	13.75'	13.75'	
	30"	2'-3"	2.55'	6.19'	9.03'	6.03'	6'	2.00'	6.08'	10.33'	14.58'	18.83'	18.83'	18.83'	
	30"	2'-4"	2.62'	6.44'	9.27'	6.33'	7'	2.19'	6.37'	10.73'	14.98'	19.23'	19.23'	19.23'	
	30"	2'-5"	2.69'	6.69'	9.51'	6.63'	8'	2.38'	6.66'	11.13'	15.38'	19.63'	19.63'	19.63'	
	42"	2'-2"	2.75'	6.93'	9.75'	6.93'	9'	2.57'	6.95'	11.53'	15.78'	20.03'	20.03'	20.03'	
	42"	2'-4"	2.82'	7.18'	9.99'	7.23'	10'	2.76'	7.24'	11.93'	16.18'	20.43'	20.43'	20.43'	
	42"	2'-6"	2.89'	7.43'	10.23'	7.53'	11'	2.95'	7.53'	12.33'	16.58'	20.83'	20.83'	20.83'	
	60"	2'-2"	2.95'	7.67'	10.47'	7.83'	12'	3.14'	7.82'	12.73'	16.98'	21.23'	21.23'	21.23'	

Concrete Slab, 3" Or 5-1/2" Thick, Reinforced With W#F 6x6-W#10x4

TOP VIEW - SINGLE PIPE

Concrete Slab, 3" Or 5-1/2" Thick, Reinforced With W#F 6x6-W#10x4

TOP VIEW - MULTIPLE PIPE

No Pipe Joint Permitted Unless Approved By The Engineer

SECTION

\* Slope: 4" Min. To 2" Pipe For Pipes 18" And Smaller.  
4" Min. To 2" Pipe For Pipes 24" And Larger.  
14" For Pipes 24" And Larger.

**MANATEE COUNTY**  
TRANSPORTATION DEPARTMENT

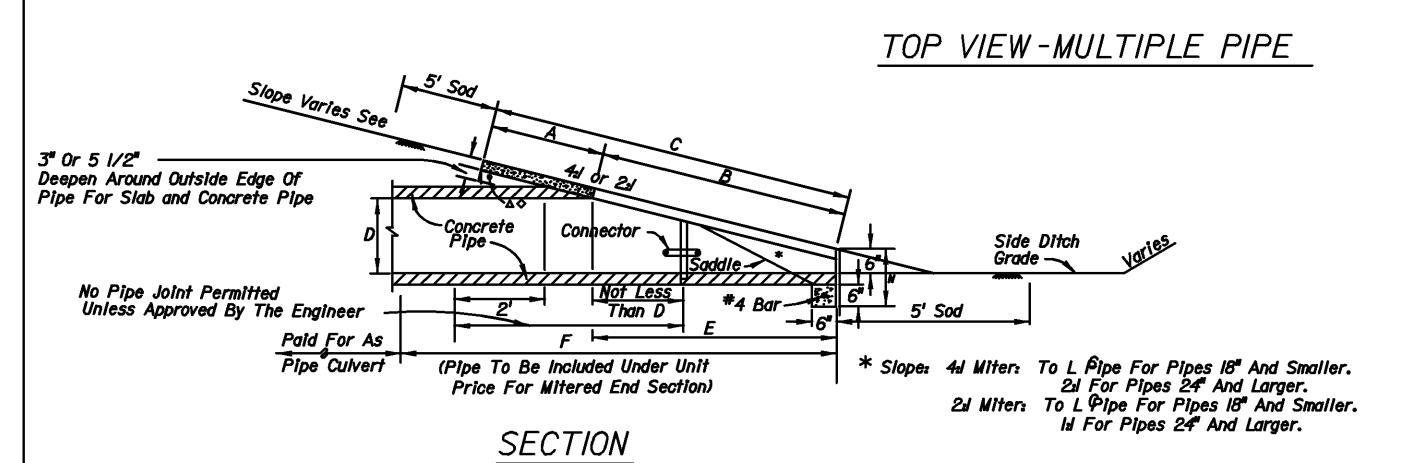
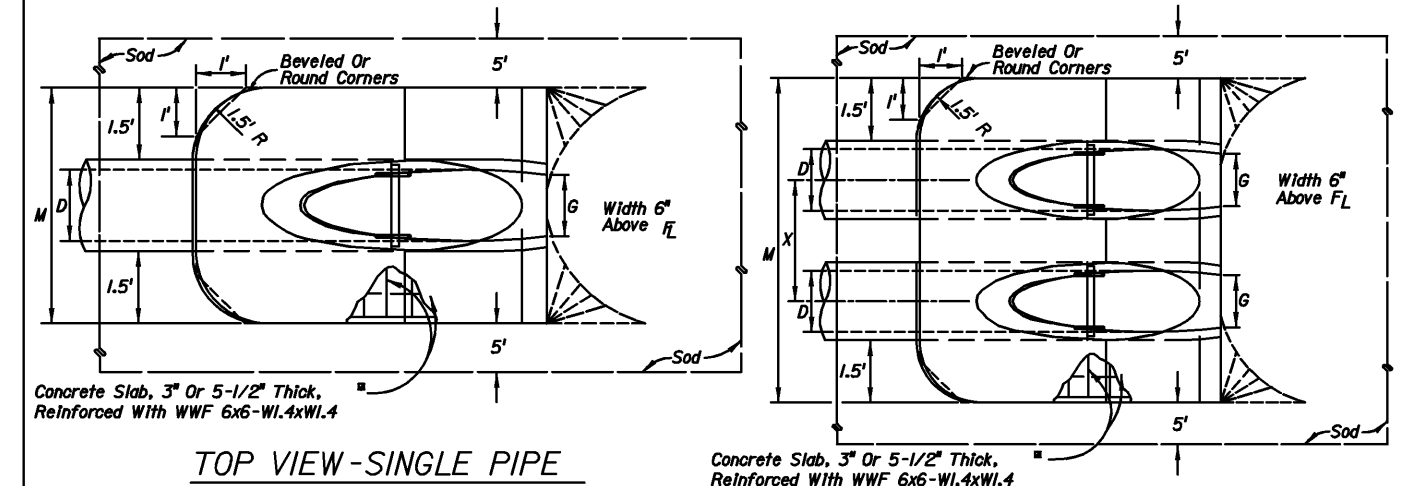
MITERED END  
SECTION FOR ROUND,  
SINGLE & MULTIPLE  
PIPES

102.2

REV	DATE

6/12/07

DATE OF B.O.C.C. APPROVAL



MANATEE COUNTY		MITERED END SECTION FOR ROUND, SINGLE & MULTIPLE PIPES	102.2
REV.	DATE		
1	6/12/07		
2			
3			
4			

**SCHENKELSHULTZ**  
ARCHITECTURE  
677 North Washington Blvd.  
Sarasota, FL 34236  
voice 941.952.5875  
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schenkelshultz.com  
SS Lic No - AA-C000937

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JEB C. MULLOCK  
PROFESSIONAL ENGINEER #64692

SIGNATURE

**ZNS**  
ENGINEERING  
201 5th Avenue Drive East  
Bradenton, FL 34208  
voice 941.748.8080  
fax 941.748.3316  
email zns@znseng.com

## Park And Ride

1711 7th Avenue West  
Palmetto, FL 34221

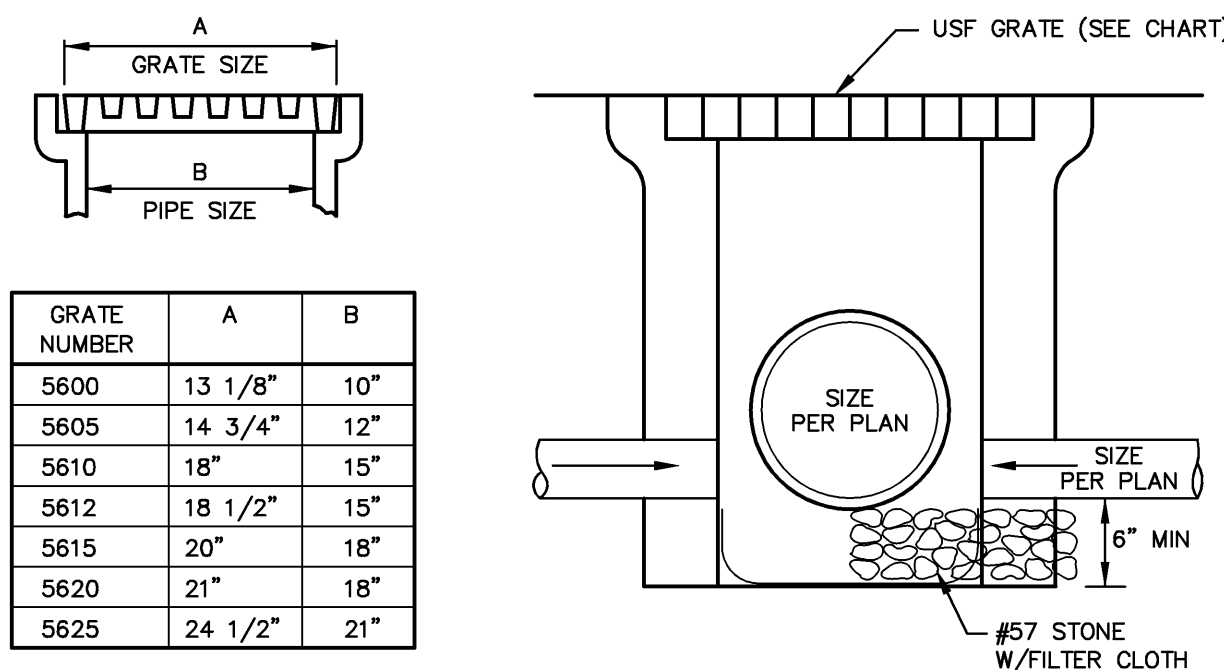
Client:  
Manatee County Government  
1112 Manatee Avenue West  
Bradenton, FL 34208

Revisions:  
A Addendum 3 - Revised Drainage and Grading (Pond Size, Stormwater Pipes, Added Underdrain, Raised Elevations, Revised Cross Sections and Details)  
Date: 12.27.2010

drawn: MF  
checked: JCM  
date: 10.08.2010  
comm. no.: 1020805

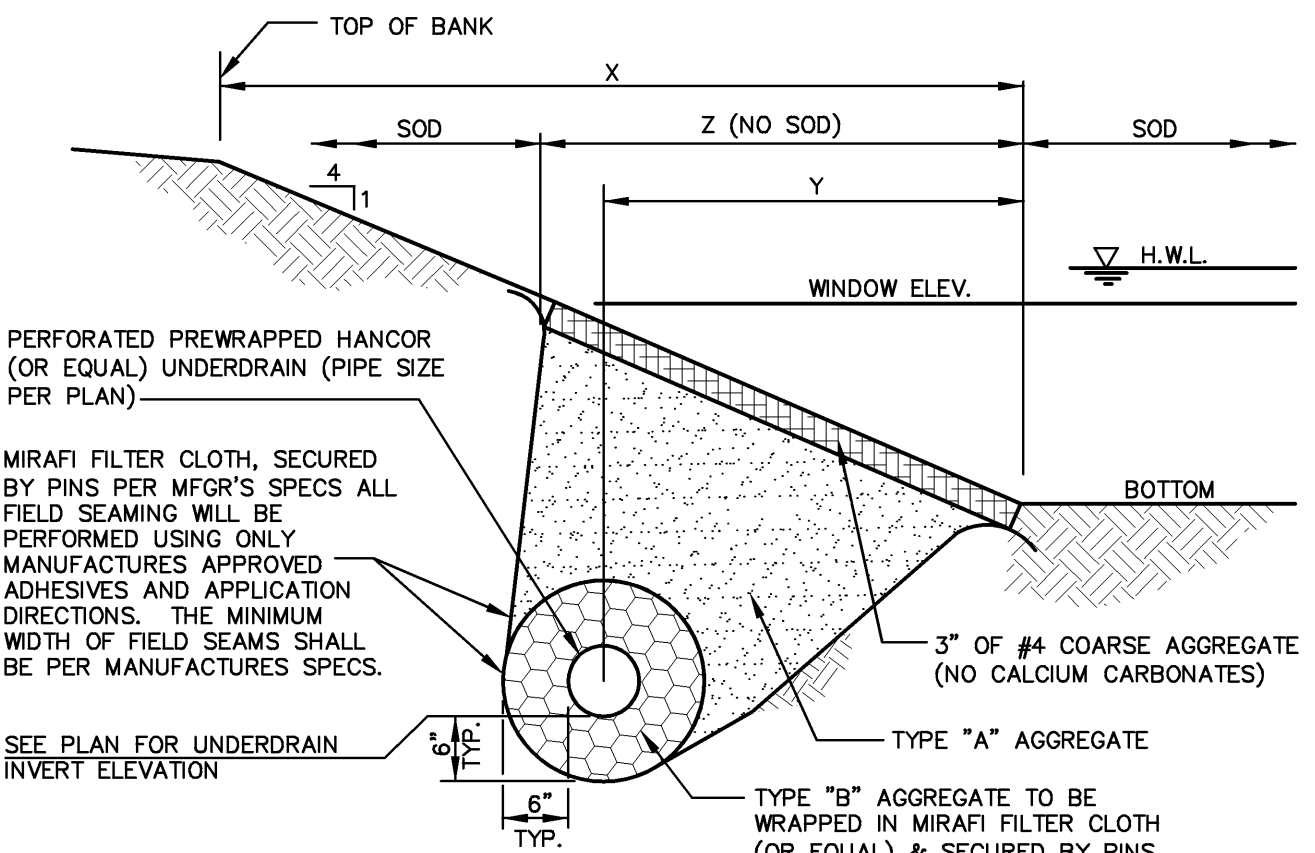
ENGINEERING  
DETAILS

**C6**  
100%  
Construction Documents



### YARD INLET DETAIL

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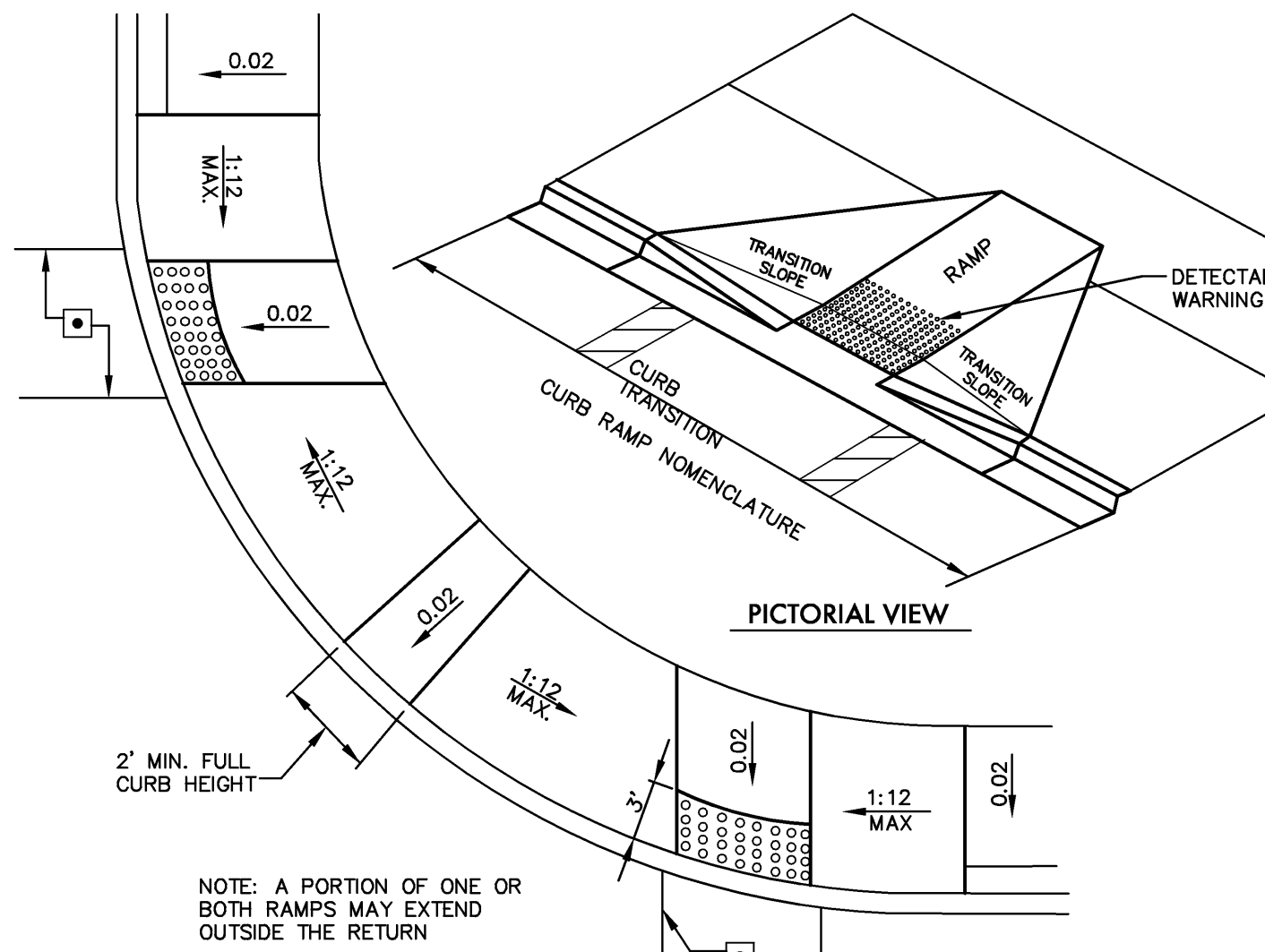
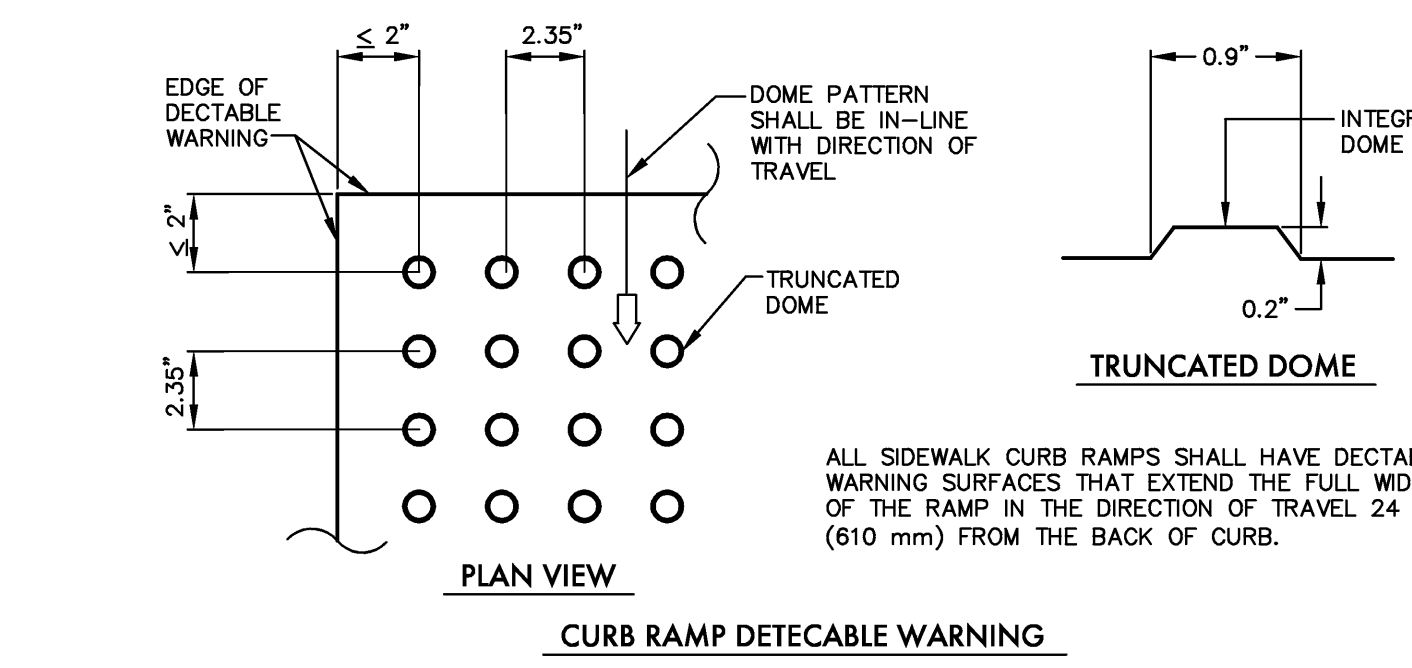


STORMWATER DATA						
STORMWATER FACILITY	X	Y	Z	T/B	WINDOW ELEV.	BOTTOM
1	4.8'	3.4'	1.0'	13.00	12.05	11.80

AGGREGATE SPECIFICATIONS	
TYPE "A" AGGREGATE	
1. AGGREGATE SHALL CONSIST OF CLEAN GRAVEL AND SAND IN COMPLIANCE WITH F.D.O.T. STANDARD SPECIFICATIONS 902-4.	
2. UNIFORMITY COEFFICIENT SHALL BE GREATER THAN OR EQUAL TO 1.5.	
3. EFFECTIVE GRAIN SIZE SHALL BE 0.20 MM TO 0.55 MM IN DIAMETER.	
4. PERMEABILITY K = 130 F.P.D. OR 0.0015 F.P.S. OR GREATER	
5. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING SOILS ENGINEER TO CONFIRM THAT THE ABOVE CONDITIONS ARE MET PRIOR TO PLACING AGGREGATE IN PLACE.	
6. CONTRACTOR TO SUBMIT SHOP DRAWINGS PRIOR TO START OF CONSTRUCTION.	
7. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS PRIOR TO INSTALLATION TO ALLOW FOR INSPECTION.	
8. AGGREGATE SHALL NOT CONSIST OF CALCIUM CARBONATE	
9. TEST RESULTS FROM AN INDEPENDENT CERTIFIED LABORATORY WILL BE SUBMITTED TO SWFWMD, AND ACCEPTED BY DISTRICT STAFF PRIOR TO INSTALLATION. TEST RESULTS MUST DEMONSTRATE THAT THE MATERIALS MEET ALL DISTRICT CRITERIA.	
TYPE "B" AGGREGATE	
1. 1/2" TO 1" CLEAN WASHED COARSE AGGREGATE PER F.D.O.T. SPEC. 901-2.1 OF 901-2.2. COARSE AGGREGATE	
2. COARSE AGGREGATE TO BE PER F.D.O.T. SPECIFICATION 901-2.1 OR 901-2.2.	

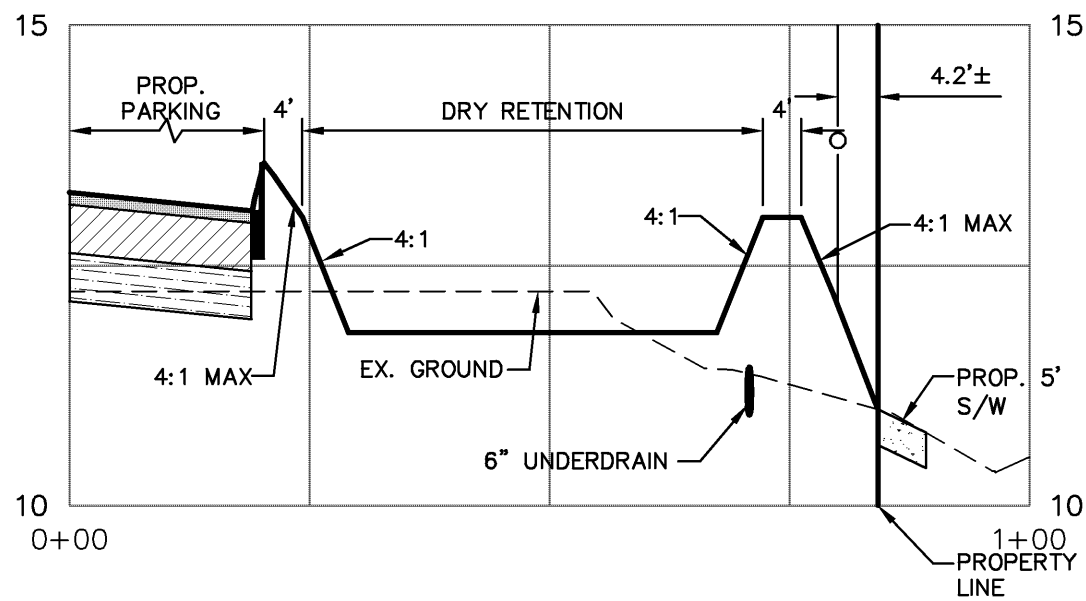
### POND UNDERDRAIN SECTION

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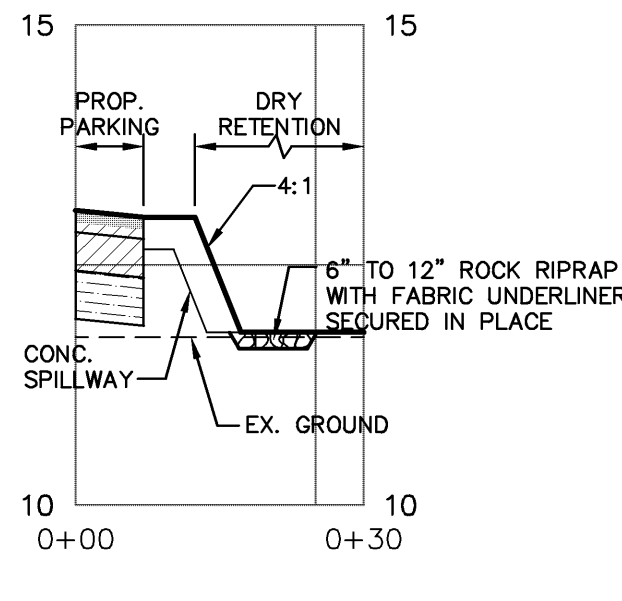


### TYPICAL PLACEMENT OF PUBLIC SIDEWALK CURB RAMPS AT CURBED RETURNS

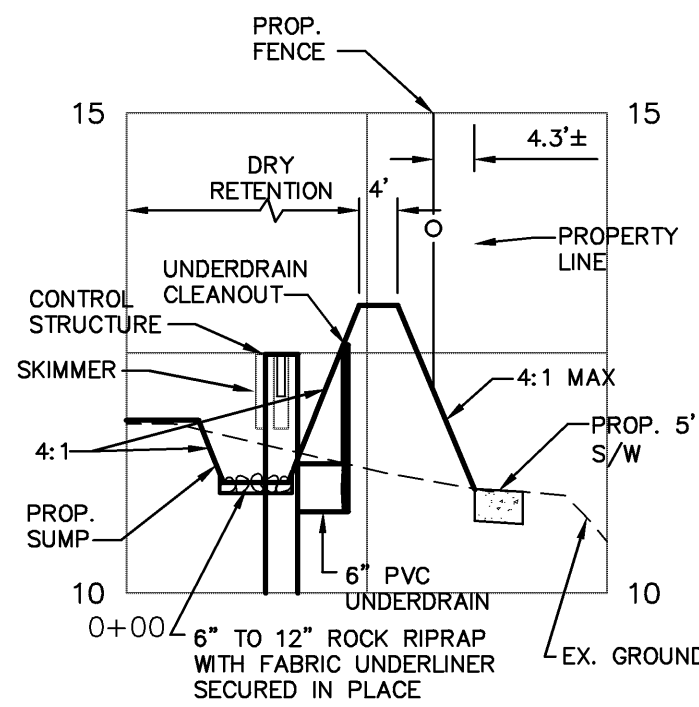
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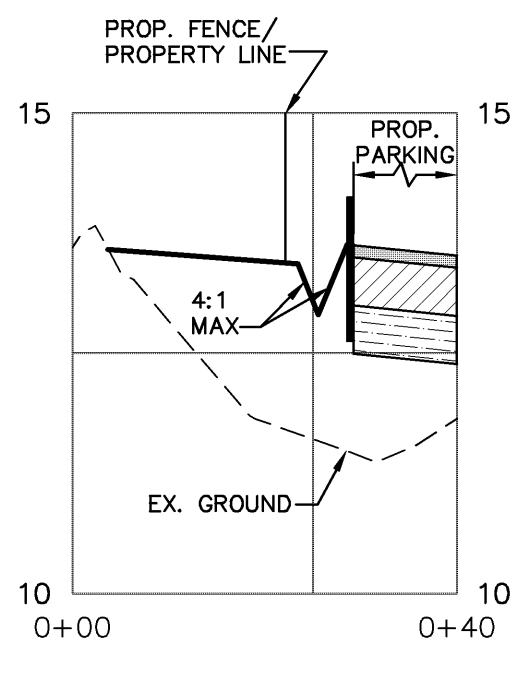
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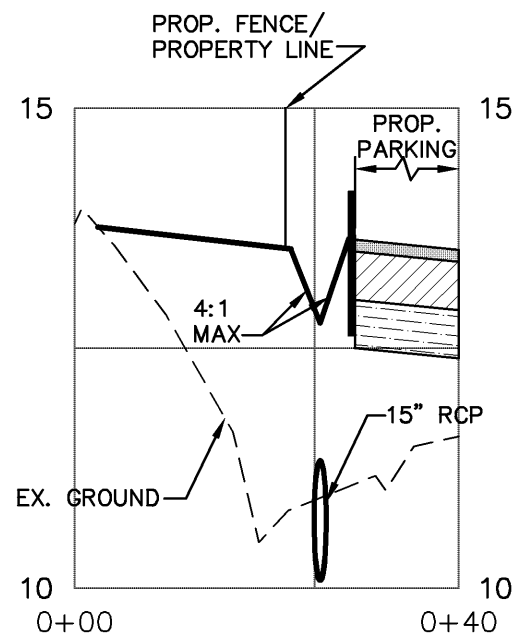
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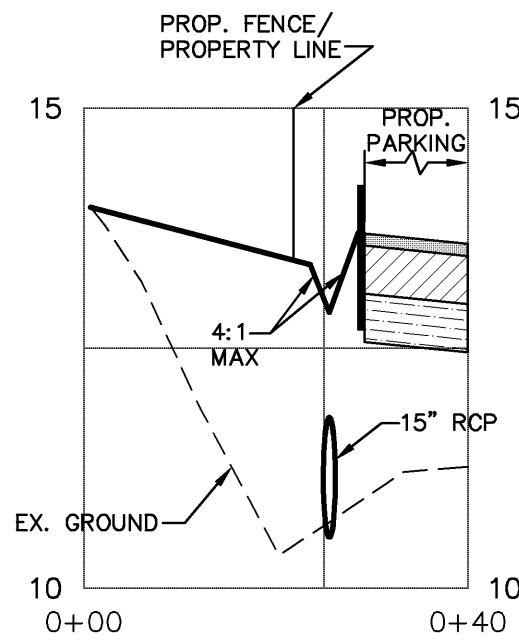
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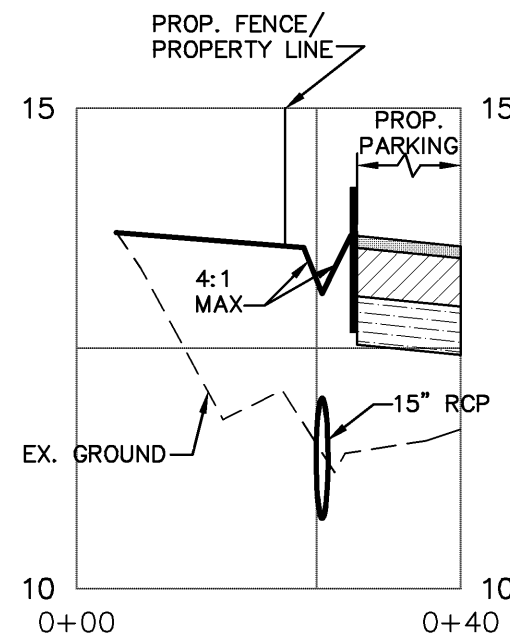
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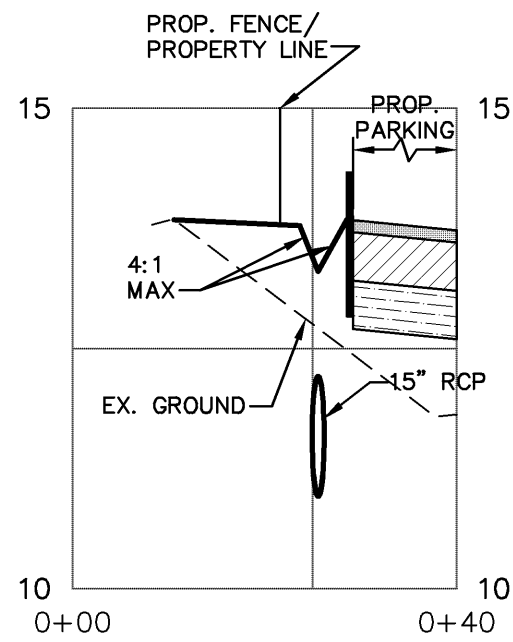
**SECTION E-E**  
SCALE: H: 1"=20'  
V: 1"=2'



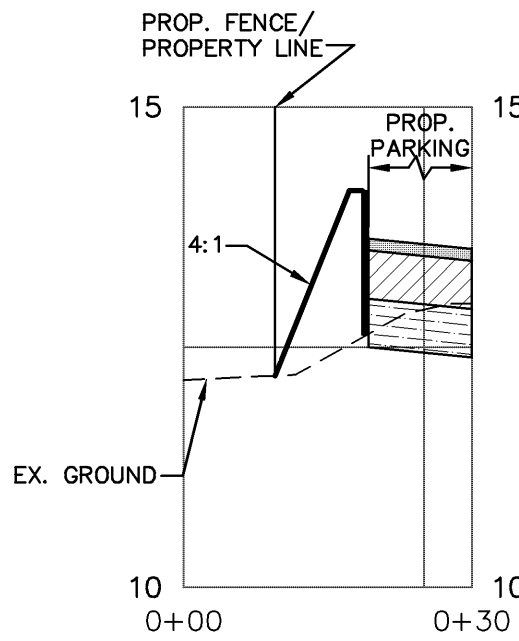
**SECTION F-F**  
SCALE: H: 1"=20'  
V: 1"=2'



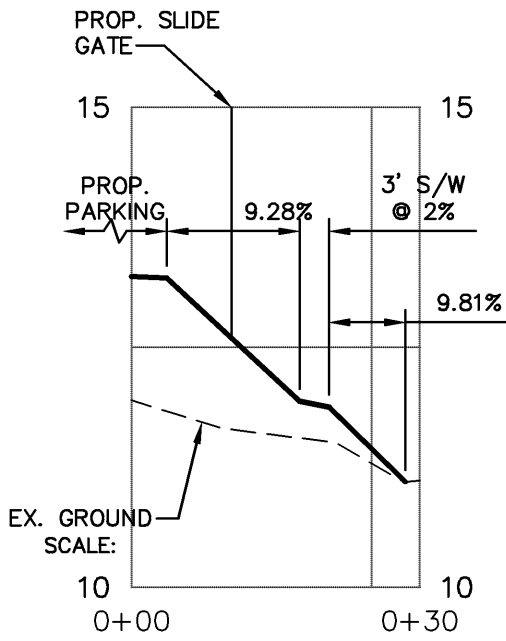
**SECTION G-G**  
SCALE: H: 1"=20'  
V: 1"=2'



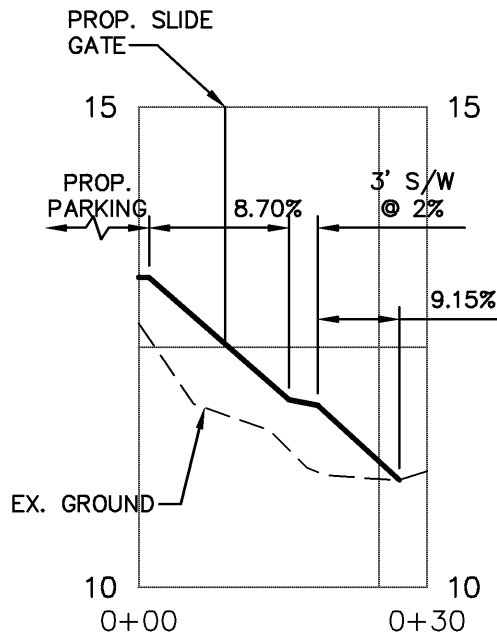
**SECTION H-H**  
SCALE: H: 1"=20'  
V: 1"=2'



**SECTION I-I**  
SCALE: H: 1"=20'  
V: 1"=2'



**SECTION J-J**  
SCALE: H: 1"=20'  
V: 1"=2'



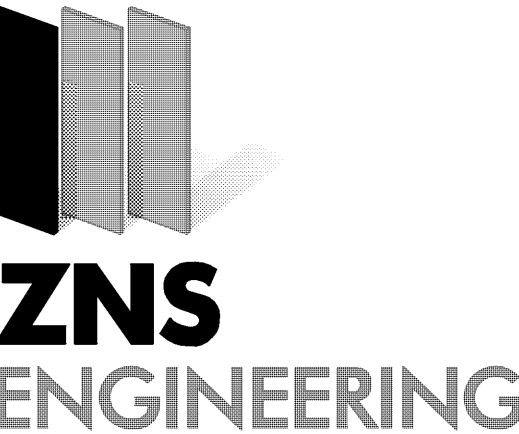
**SECTION K-K**  
SCALE: H: 1"=20'  
V: 1"=2'

**SCHENKELSHULTZ**  
ARCHITECTURE  
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SS Lic No - AA-C000937

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JEB C. MULOCK  
PROFESSIONAL ENGINEER #64692

SIGNATURE



## Park And Ride

1711 7th Avenue West  
Palmetto, FL 34221

Client:  
Manatee County Government  
1112 Manatee Avenue West  
Bradenton, FL 34208

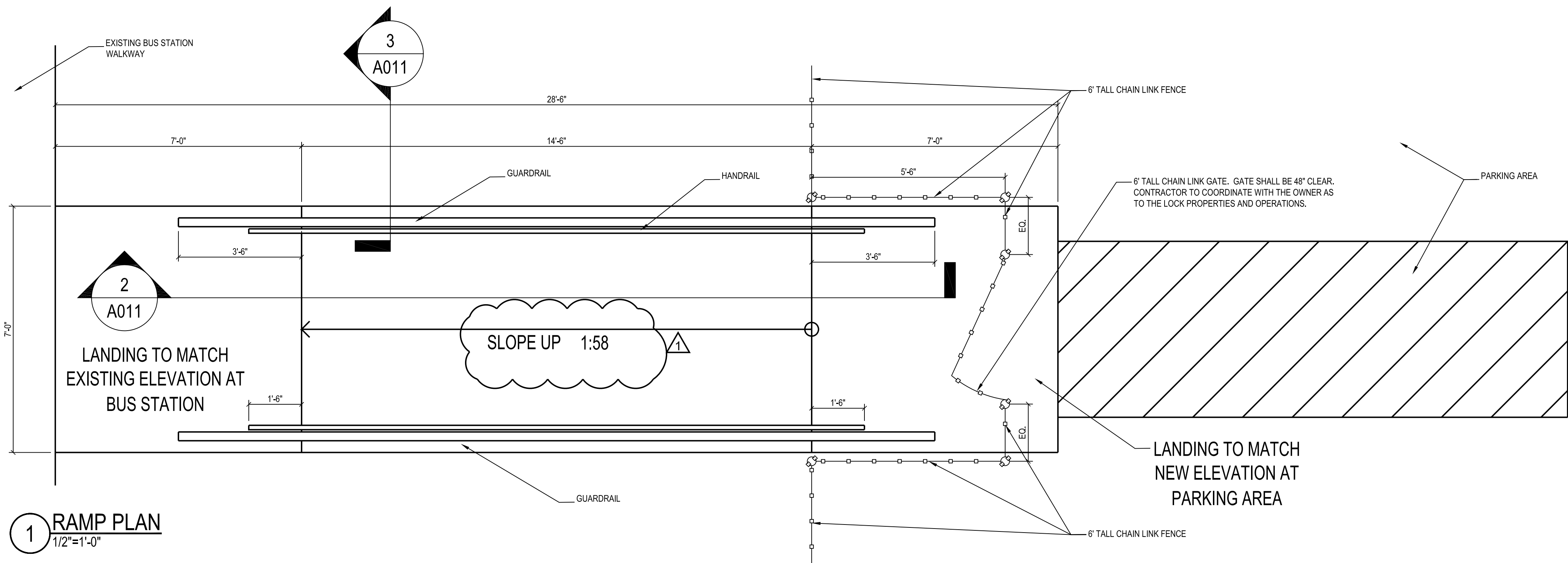
Revisions:  
Addendum 3 - Revised Drainage and Grading (Pond Size, Stormwater Pipes, Added Underdrain, Raised Elevations, Revised Cross Sections and Details)  
Date: 12.27.2010

drawn: MF  
checked: JCM  
date: 10.08.2010  
comm. no.: 1020805

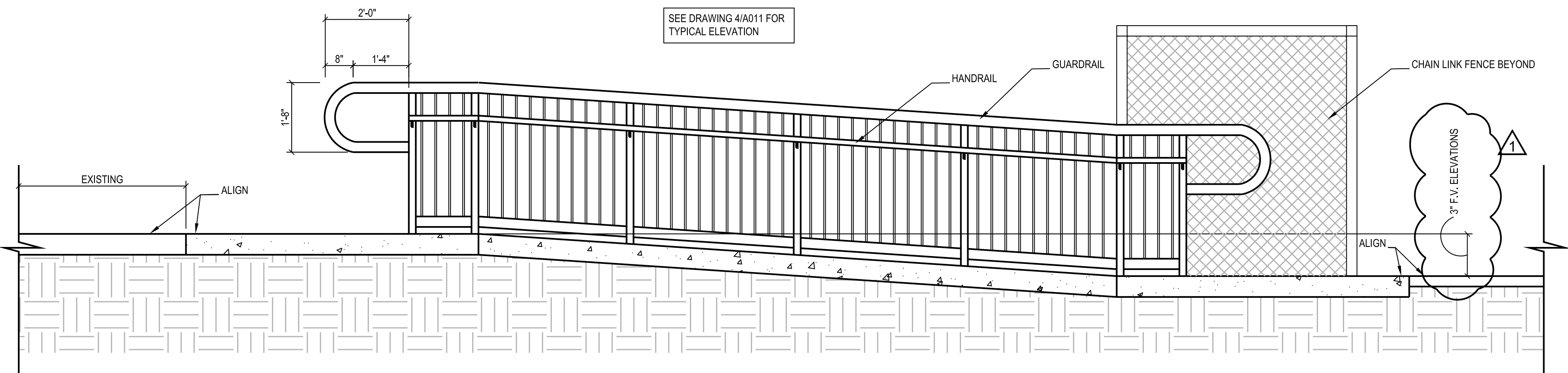
ENGINEERING  
SECTIONS

**C7**

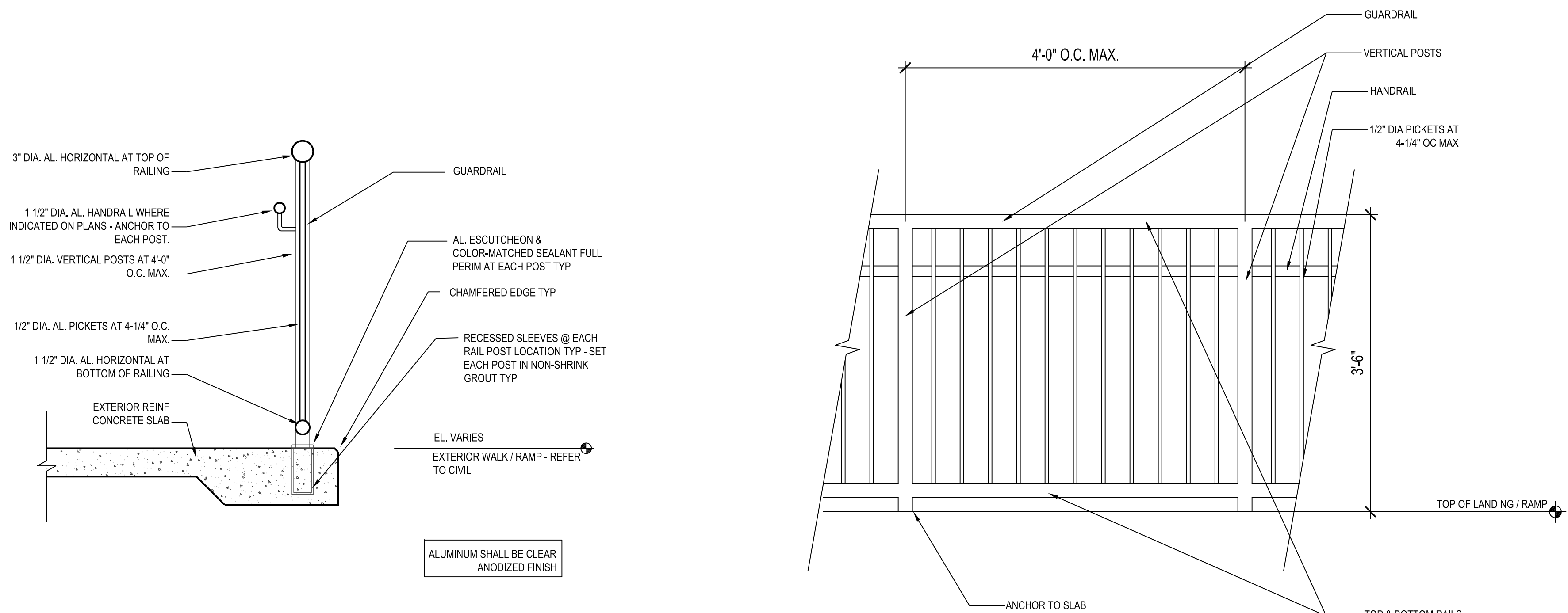
100%  
Construction Documents



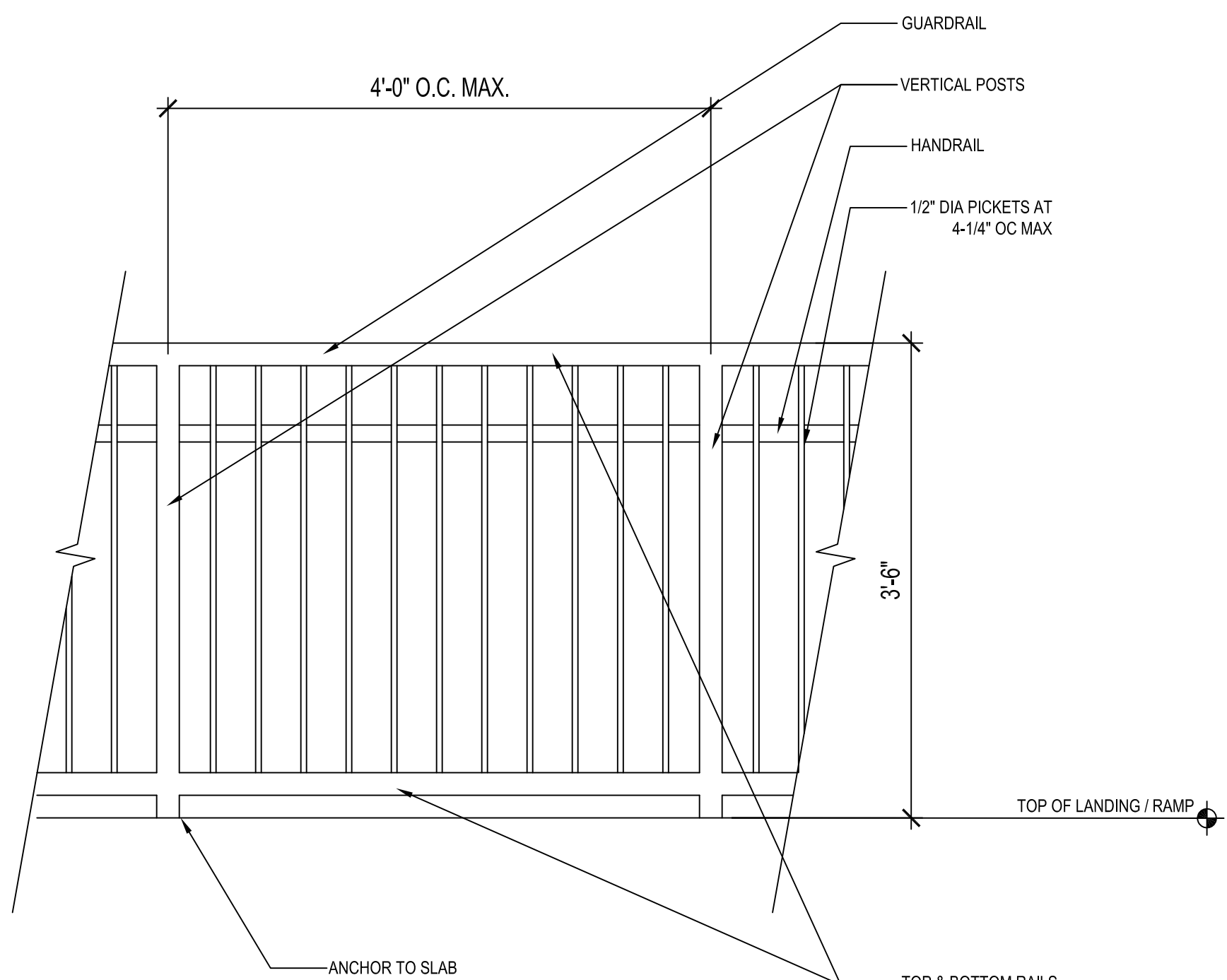
1 RAMP PLAN  
1/2"=1'-0"



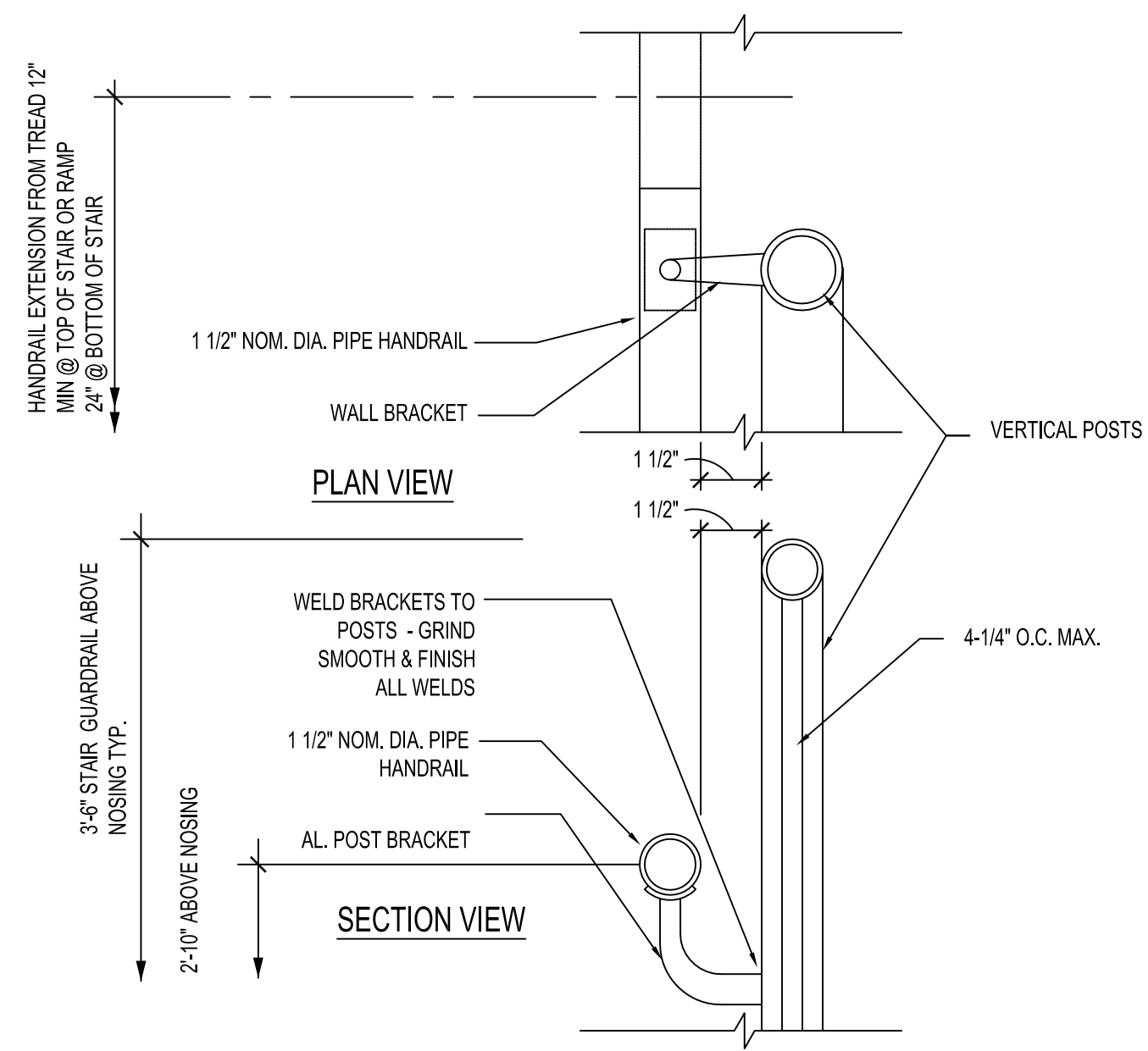
2 RAMP SECTION  
1/2"=1'-0"



3 TYPICAL GUARDRAIL/HANDRAIL SECTION  
1"=1'-0"



4 TYPICAL GUARDRAIL/HANDRAIL ELEVATION  
1"=1'-0"



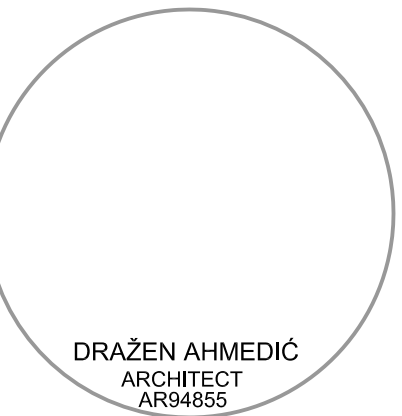
5 HANDRAIL AT RAMP RAILINGS  
3"=1'-0"

SCHENKELSHULTZ

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Bradenton, FL 34208

revisions:  
12.27.2010  
ADDENDUM 3

drawn: DA  
checked: DA  
date: 10.08.2010  
comm. no.: 1020805

ARCHITECTURAL SITE  
PLAN & DETAILS

# A011

100% Construction Documents