

PLANNING SERVICES

*Gateway Review Board*

CHAIRMAN AND MEMBERS OF THE GATEWAY REVIEW BOARD

There will be a meeting of the City Gateway Review Board on **Tuesday, June 11, 2019, at 11:00 a.m. in the Mason Conference Room, Mezzanine Level, City Hall, 222 West Main Street.**

AGENDA:

1. Call to Order
2. Approval of the May 14, 2019, Meeting Minutes
3. 99 BLK South 9th Avenue: Consider *FINAL* Approval of a multi-story hotel within the 99 BLK of South 9th Avenue
4. Open Forum

Sincerely,



Leslie Statler  
Planner

***Gateway Review Board***

**MINUTES OF THE GATEWAY REVIEW BOARD**

**May 14, 2019**

**MEMBERS PRESENT:** Robert Montgomery, Brett Janson, Elizabeth Fleischhauer, Michael Wolf, Eric Schmitz, Brett Janson

**MEMBERS ABSENT:** Bob Wilson, Sergio Hernandez

**STAFF PRESENT:** Leslie Statler, Planner, Amy Hargett, Planning Technician, Gregg Harding, Historical Preservation Planner

**OTHERS PRESENT:** Stanford Morse

**CALL TO ORDER / QUORUM PRESENT**

The meeting was called to order at 11:00 am by Chairman Montgomery with a quorum present.

**APPROVAL OF MINUTES**

**Item 2:** The Chairman asked for approval of the December 11, 2018 meeting minutes. Ms. Fleischhauer made a motion to approve, seconded by Mr. Schmitz, and it carried unanimously.

**NEW BUSINESS**

**Item 3: 99 BLK South 9th Avenue:** Consider *conceptual* approval of a multi-story hotel within the 99 BLK of South 9th Avenue

Chairman Montgomery stated he owned the property to the south and was negotiating with the client on drainage through his property; he would participate in the meeting but would not be voting. Mr. Partington addressed the Board and stated they had repositioned the building on the site to get it north of the marine clay. This also helped line up the entrance to Aragon Street. The square footage of the building had not changed, and it still contained a restaurant, conference space, and a bar, but they were changing it from brick with stucco accents to stucco with brick accents. Revised landscaping plans were not provided; he indicated those would involve some tree mitigation. He explained the structure would have 102 rooms which would require approximately 102 parking spaces. He stated there would be more pedestrian friendly landscaping along 9th Avenue.

Mr. Morse was excited to see the property developed but was concerned about the 24' wide two-lane street not having sidewalks and thought it should line up with Salamanca Street. He also mentioned the greenspace east of the hotel and hoped it would be maintained as greenspace and not available for future development in order to protect the trees. He also wanted to see how the project related to Aragon. Mr. Partington explained because of the size of the building, they were required to have emergency vehicle access. Regarding sidewalks, they had really responded to the request of the Fire Marshall. Mr. Morse

EVERYTHING THAT'S GREAT ABOUT FLORIDA IS BETTER IN PENSACOLA.

suggested if the street was a single lane, sidewalks could be installed. Ms. Fleischhauer pointed out there were perimeter sidewalks. Mr. Partington advised the street was on private property, and Ms. Statler clarified that it was not a street but an internal access drive and specifically designed for the fire apparatus, and there could potentially be signage labeling the use as such.

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**Mr. Wolf made a motion for conceptual approval, seconded by Ms. Fleischhauer, and it carried with Chairman Montgomery abstaining.**

**OPEN FORUM** - None


There being no further business, the meeting was adjourned at 11:18 am.

Respectfully Submitted,



Leslie Statler  
City Planner  
Secretary to the Board

MEMORANDUM

TO: Gateway Review Board Members  
FROM: Leslie Statler, Planner   
DATE: June 5, 2019  
SUBJECT: 99 BLK South 9th Ave – New Multi-Story Hotel

**BACKGROUND**

Philip Partington, SMP architecture, is requesting *final* approval for a multi-story hotel located within the 99 BLK of South 9th Avenue. This project was most recently granted conceptual approval in May 2019; the previous iteration was granted conceptual approval in March 2018 and final approval in July 2018 after contextual detailing representative of Pensacola was added to the exterior.

Per the applicant, the project has been revised due to soil composition. The building has been relocated to the interior of the lot with the surface parking area now on the southern half of the lot, adjacent to 3 roadways. With the proposed reorientation, the entrance along North 9th Avenue aligns with Aragon Street. The façade has changed from a predominately brick exterior with stucco accents to a predominately stucco exterior with a brick along the first floor. The color palette consists of three shades of stucco (“Sto White”, “Silver Lining”, and “Pearl Gray”), “Garrison Grey” brick, and charcoal windows. Surface parking is proposed to be screened by a mixture predominately of Japanese Privet with Camellias, Adagio Miscanthus, and Parsoni Juniper at the parking islands. The dumpster is screened by a fence; however details have not been provided.

All relevant documentation is included for your review.



Gateway Review Board Application  
Full Board Review

Application Date: 5/22/19

Project Address: The corner of 9th AV and Colfax Street  
Applicant: Philip Partington , A.I.A.  
Applicant's Address: SMP Architecture, 40 S. Palafox Street, Pensacola, FL.  
Email: Philip@smp-arch.com Phone: 850-432-7772  
Property Owner: Peachtree Hotel Group  
*(If different from Applicant)*

Application is hereby made for the project as described herein:

- Residential – \$50.00 hearing fee
- Commercial – \$250.00 hearing fee

*\* An application shall be scheduled to be heard once all required materials have been submitted and it is deemed complete by the Secretary to the Board. You will need to include eleven (11) copies of the required information. Please see pages 3 – 4 of this application for further instruction and information.*

**Project specifics/description:**

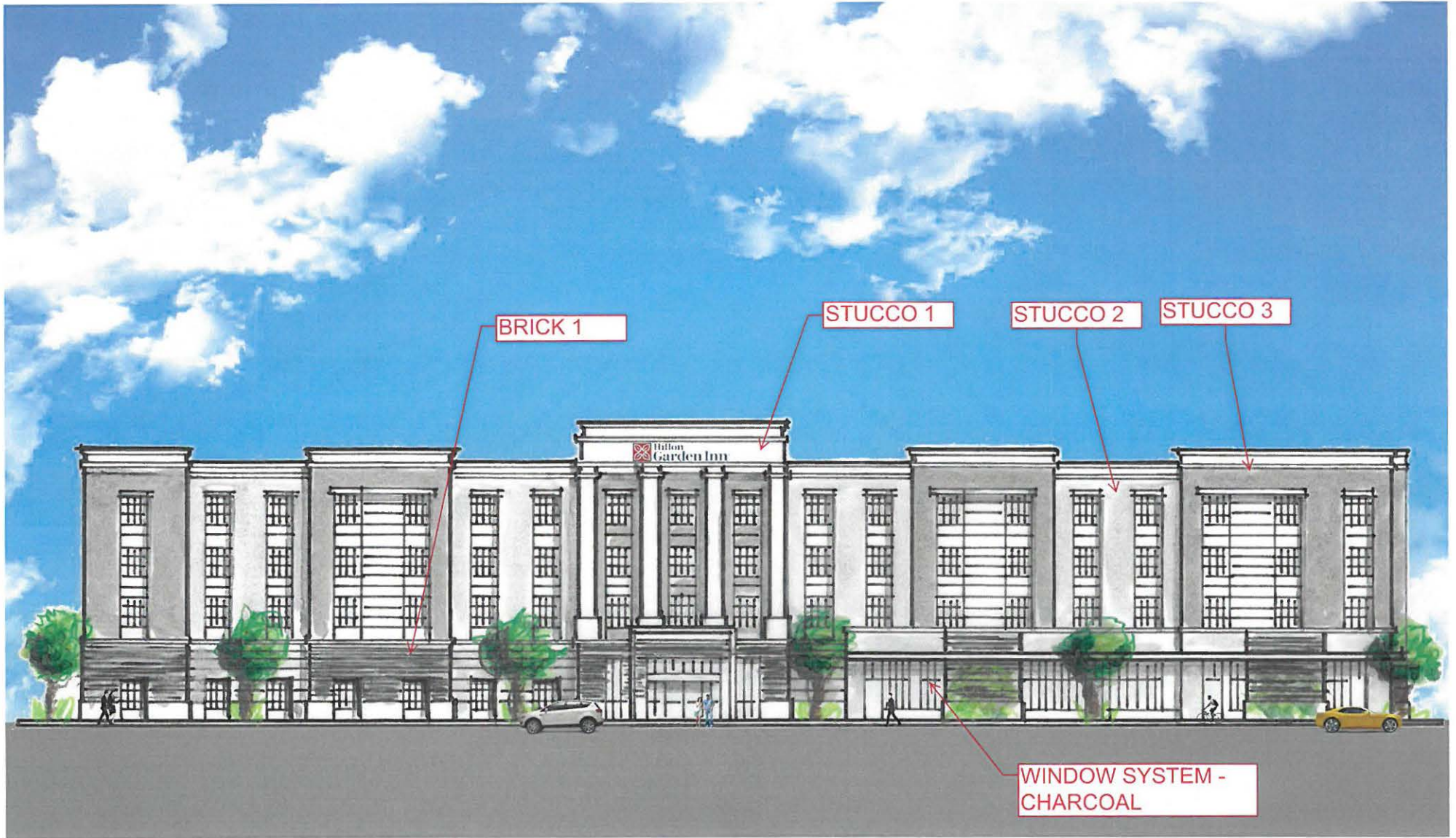
**The project is a new 102 room Hilton Garden Inn that has previously been reviewed by the board.**

**This application is for final approval.**

*I, the undersigned applicant, understand that payment of these fees does not entitle me to approval and that no refund of these fees will be made. I have reviewed the applicable zoning requirements and understand that I must be present on the date of the Gateway Review Board meeting.*

Applicant Signature

5/22/19  
Date



# Trifab™ 601/601T/601UT Framing System

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delivers more thermal options  
and more design choices

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Window System

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# High-Performing Paints That Let You Design In Vibrant Living Color



BLACK



BOYSENBERRY



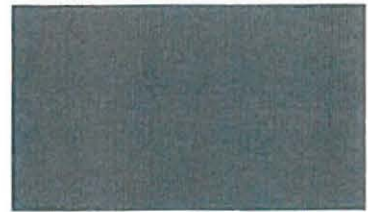
HARTFORD GREEN



SANDSTONE



CLASSIC BRONZE

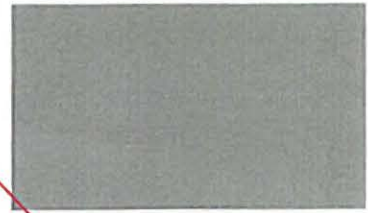


MILITARY BLUE

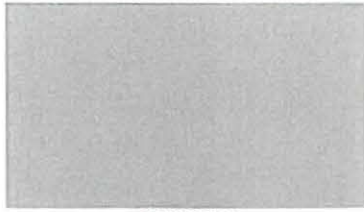


BONE WHITE

WINDOW COLOR



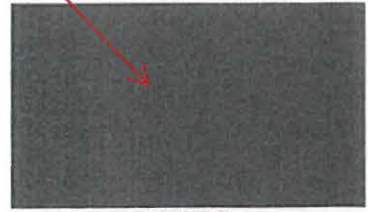
ANTIQUE BRONZE



DOVE GRAY



DARK IVY



CHARCOAL



REDWOOD



SEA WOLF



MEDIUM BRONZE

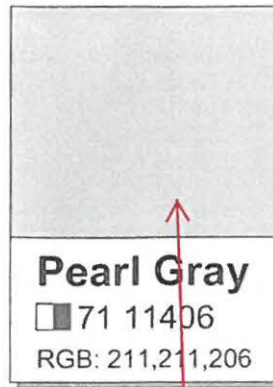
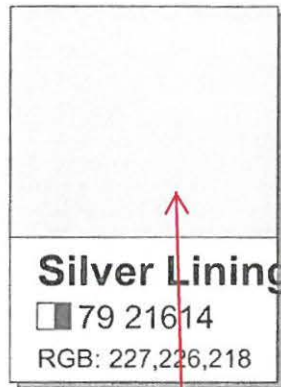
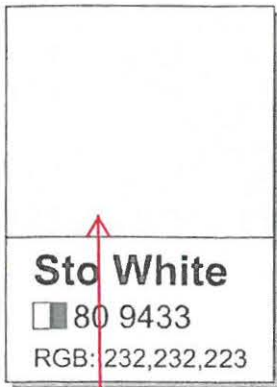


# StoColor800

Created on: 24/05/2019



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Fax: (404) 346-3199  
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[Call \(800\) 221-2397](tel:8002212397) or <http://www.stocorp.com>

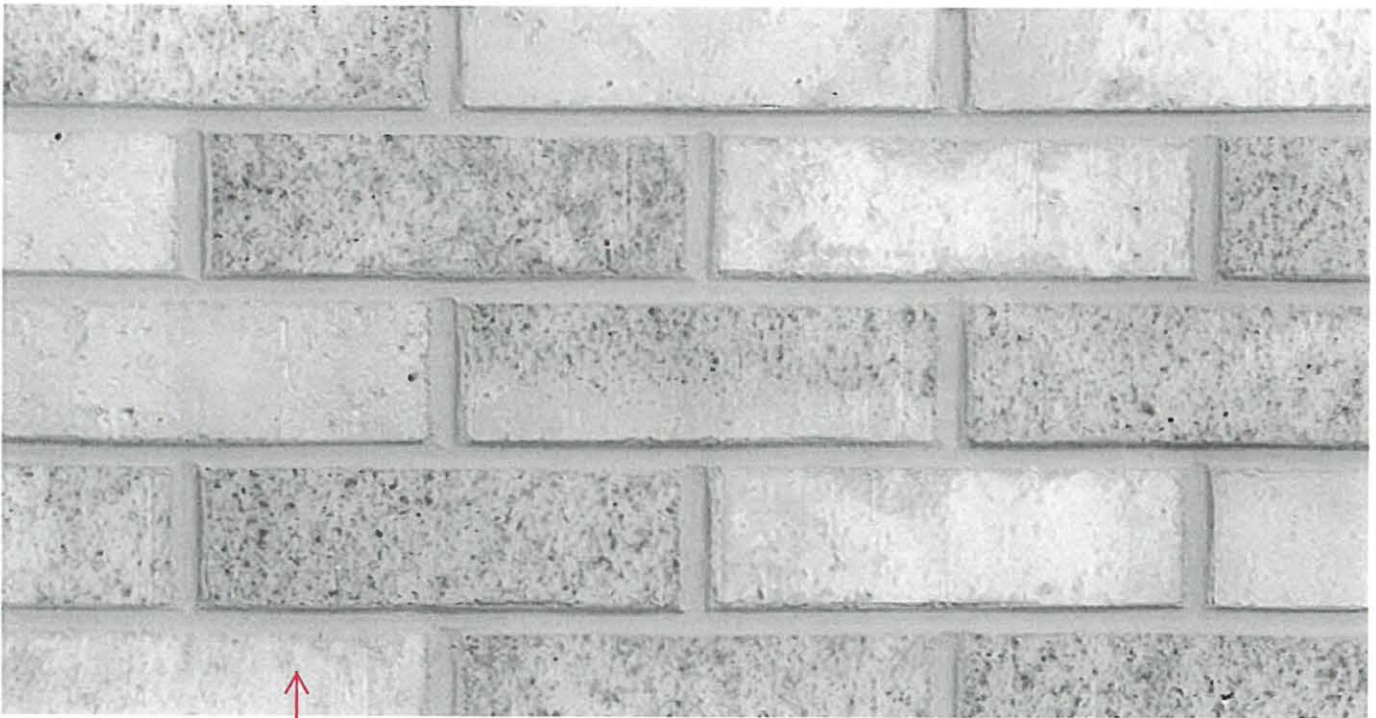
STUCCO 1

STUCCO 2

STUCCO 3

The colors presented on this chart are representations. Actual colors of manufactured product may vary slightly from the chart. Color perception is affected by degree of gloss, texture, and lightning conditions. For best results always request a product sample, select color under natural lightning conditions, and construct full scale job site mock ups for final color approval.





BRICK-1  
GLEN GARY  
GARRISON GREY  
THIN BRICK

# 100% SITE DEVELOPMENT PLANS FOR:

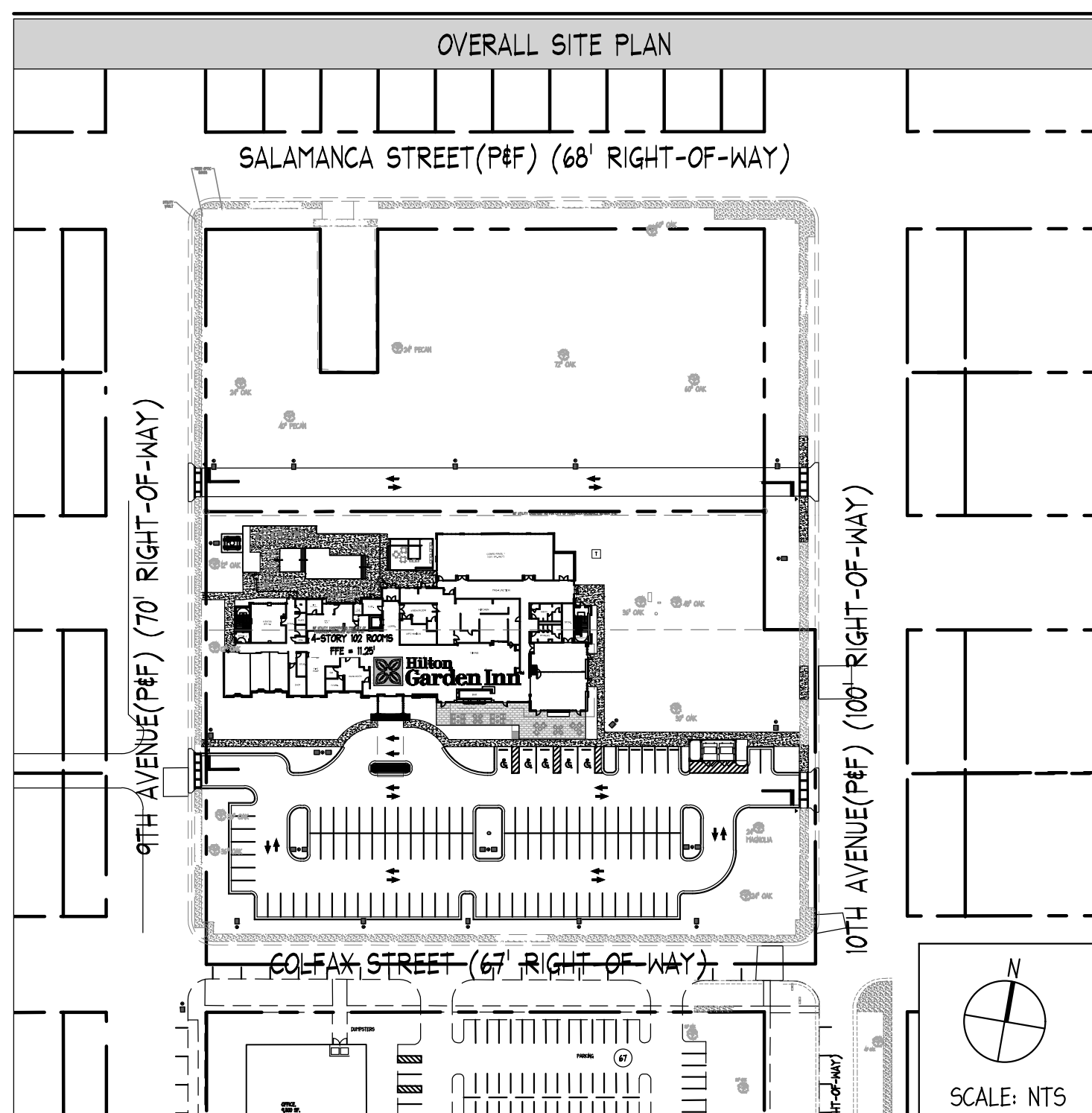


HILTON GARDEN INN  
EAST SALAMANCA STREET  
ESCAMBIA, PENSACOLA, FLORIDA



PREPARED FOR:  
PEACHTREE HOTEL GROUP  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

PROJECT CONTACTS				
<b>CURRENT OWNER</b> SAI LAMM PENSACOLA, LLC.	<b>DEVELOPER</b> PEACHTREE HOTEL GROUP ONE ALLIANCE CENTER, 3500 LENOX ROAD, SUITE 625 ATLANTA, GA 30326 PHONE: (404) 497-4111	<b>CIVIL ENGINEER</b> INGENIUM ENTERPRISES, INC. 1499 NORTH DALE HARRY HWY SUITE 250 TAMPA, FL 33618 PHONE: (813) 387-0084	<b>LAND SURVEYOR</b> MERRILL PARKER SHAW, INC. 4028 NORTH DAVIS HIGHWAY PENSACOLA, FL 32503 PHONE: (850) 478-4923 FAX: (850) 478-4924	<b>ELECTRIC</b> GULF POWER P.O. BOX 1000 TAMPA, FL 33618 PHONE: (813) 387-0084
<b>GAS</b> PENSACOLA ENERGY MS. DANIE MOORE ADDRESS: 4040 PHILIPS HIGHWAY JACKSONVILLE, FL 32207 PHONE: (904) 474-5391 EMAIL: DMOORE@CITYOFPENSACOLA.COM	<b>TELEPHONE COMPANY</b> ATTN: FLORIDA MR. BRAD SAUERS PHONE: (850) 436-1495 EMAIL: BS402@ATT.COM	<b>MUNICIPAL SEWER AGENCY</b> EMERALD COAST UTILITIES AGENCY MR. JACOB KEARLEY ADDRESS: 9255 STURDEVANT STREET PENSACOLA, FL 32514 PHONE: (850) 949-5823 EMAIL: JACOB.KEARLEY@ECUA.FL.GOV	<b>MUNICIPAL WATER AGENCY</b> EMERALD COAST UTILITIES AGENCY MR. JACOB KEARLEY ADDRESS: 9255 STURDEVANT STREET PENSACOLA, FL 32514 PHONE: (850) 949-5823 EMAIL: JACOB.KEARLEY@ECUA.FL.GOV	<b>FIRE</b> PENSACOLA FIRE DEPARTMENT CHIEF ANNIE BLOXSON ADDRESS: 475 EAST STRONG STREET PENSACOLA, FL 32501 PHONE: (850) 434-5000 EMAIL: ABLOXSON@CITYOFPENSACOLA.COM
<b>SIGNAGE</b> MS. LESLIE STATLER, CITY PLANNER CITY OF PENSACOLA PLANNING SERVICES DIVISION ADDRESS: 222 WEST MAIN STREET PENSACOLA, FL 32502 PHONE: (850) 435-1673	<b>MECHANICAL &amp; PLUMBING ENGINEER</b> H.M. YONGE & ASSOCIATES MR. MATT YONGE 102 EAST GARDEN STREET PENSACOLA, FL 32501 PHONE: (850) 434-2644	<b>SITE LIGHTING</b> SHP ARCHITECTURE, P.A. MR. PHILIP PARTINGTON 40 SOUTH PALAFOX STREET, SUITE 202 PENSACOLA, FL 32502 PHONE: (850) 432-7772	<b>LANDSCAPE ARCHITECT</b> WAS DESIGN MR. JARED ACY 218 NORTH ALSTON STREET FOLEY, ALABAMA 36535 PHONE: (251) 948-7181 EMAIL: JACY@WAS-DESIGN.COM	<b>ARCHITECT</b> SHP ARCHITECTURE, P.A. MR. PHILIP PARTINGTON 40 SOUTH PALAFOX STREET, SUITE 202 PENSACOLA, FL 32502 PHONE: (850) 432-7772
<b>ELECTRICAL ENGINEER</b> KLOOKE & ASSOCIATES MR. JACK KLOOKE 102 EAST GARDEN STREET PENSACOLA, FL 32501 PHONE: (850) 434-0989	<b>STRUCTURAL ENGINEER</b> RAC ENGINEERING MR. ROGER CRAFT 129 HIGHPOINT DRIVE GULF BREEZE, FL 32561 PHONE: (850) 712-8290			



THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL LOCAL, STATE, AND FEDERAL CERTIFICATION AND LICENSING REQUIREMENTS FOR CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: LAND DISTURBANCE PERMITS, BUILDING PERMITS, DEMOLITION PERMITS, NPDES PERMITS, DEMATERING PERMITS, ETC.

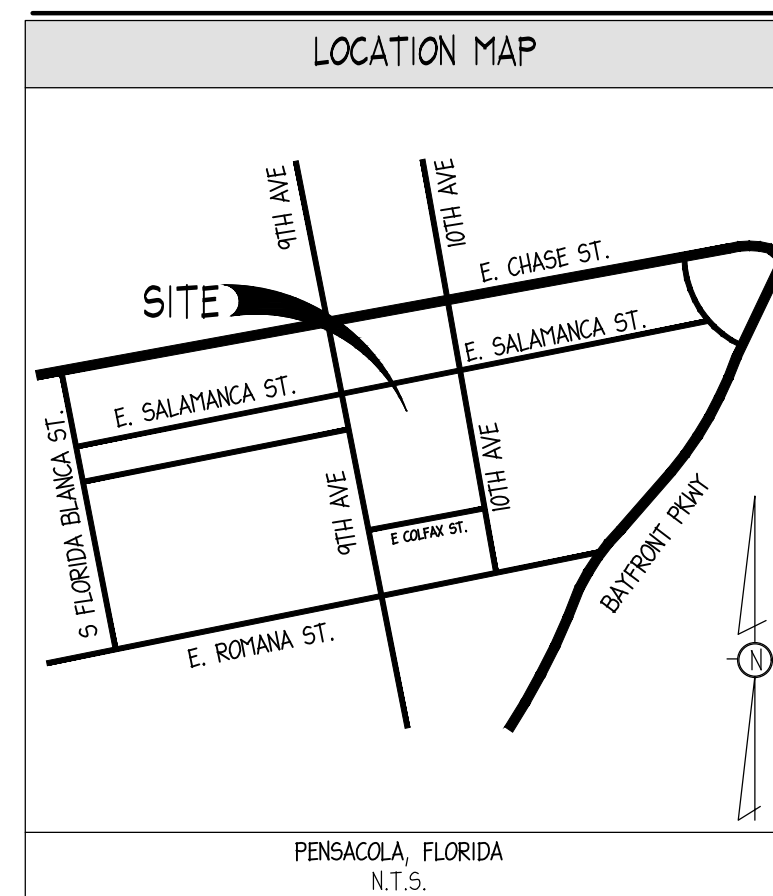
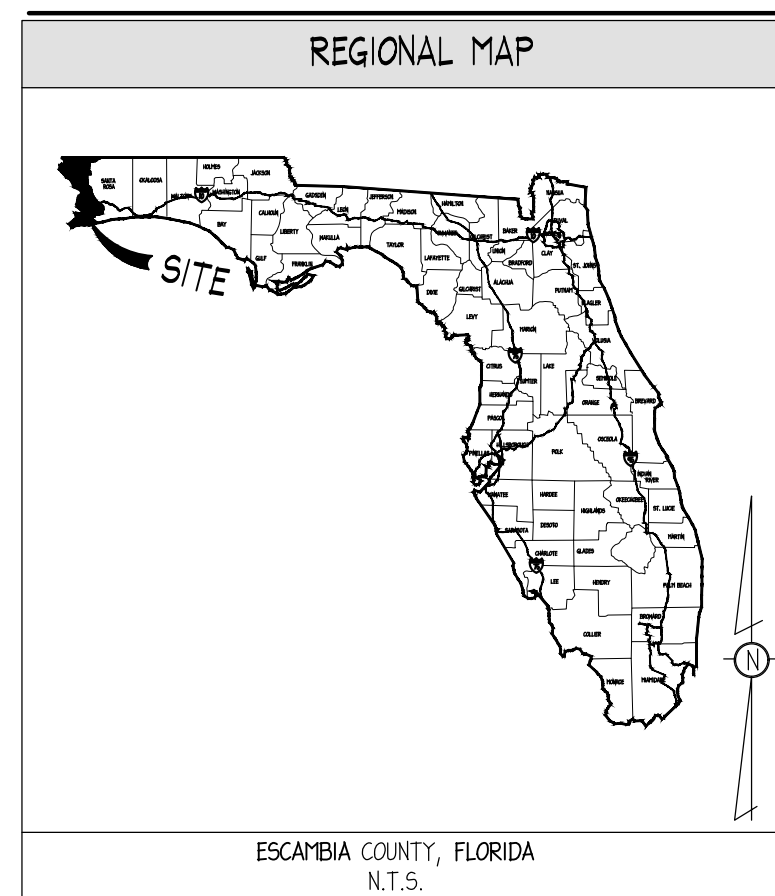
CONTRACTOR SHALL ENSURE 100% COVERAGE OF ALL LANDSCAPED AREAS WITHIN LIMITS OF WORK, INCLUDING POTENTIAL OFFSITE AREAS. COVERAGE SHALL INCLUDE BOTH LANDSCAPING AND IRRIGATION.

CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

THE GEOTECHNICAL INVESTIGATION PREPARED BY LARRY M. JACOBS & ASSOCIATES, DATED 06/29/2018 AND ANY SUBSEQUENT ADDENDA IS CONSIDERED PART OF THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE REPORT'S RECOMMENDATIONS AND FINDINGS WITH THE OWNER, ENGINEER AND ARCHITECT PRIOR TO CONSTRUCTION. IMPLEMENTATION OF THE REPORT'S RECOMMENDATIONS MAY REQUIRE THE CONTRACTOR TO PERFORM ADDITIONAL WORK NOT SHOWN ON THE CIVIL PLANS INCLUDING BUT NOT LIMITED TO EXCAVATION, REMEDIATION, DEMATERING, COMPACTION ETC.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

24-HOUR CONTACT:  
GREG FOX  
(404) 754-8842

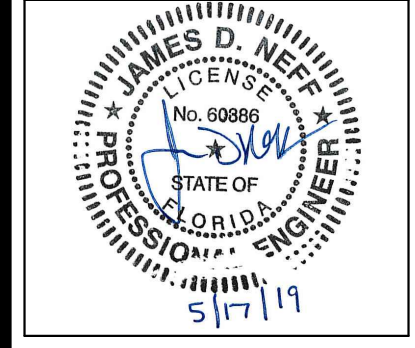


JAMES NEFF, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 60386

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JAMES NEFF ON THE DATE INDICATED HERE USING A SHA AUTHENTICATION CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

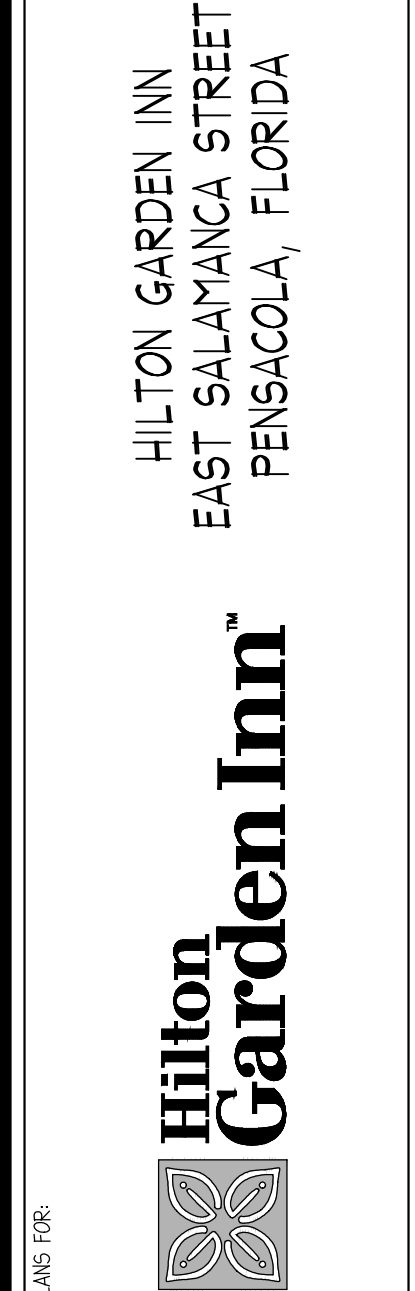
SITE INFORMATION	
JURISDICTION:	PENSACOLA, FLORIDA ESCAMBIA COUNTY
ZONING:	GATEWAY REDEVELOPMENT DISTRICT (GRD)
REQUIRED BUILDING SETBACKS:	FRONT (NORTH): 5' SIDE (EAST): 5' SIDE (WEST): 10' REAR (SOUTH): 5'
REQUIRED PARKING:	1 SPACE PER SLEEPING ROOM = 102 SPACES
PROPOSED PARKING:	9' X 18' (REGULAR) = 100 12' X 30' (LCK) = 5 TOTAL = 105
DRIVE AISLE:	24'
SITE AREA CALCULATIONS:	SITE: 14.70 AC. PERVIOUS AREA: 11.01 AC. IMPERVIOUS AREA: 12.02 AC. DISTURBED AREA: 13.70 AC.
FLOOD HAZARD:	NO PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER F.I.R.M. MAP NO. 10283C0390G, DATED 09/29/2006.
EXISTING INFORMATION:	PROVIDED BY MERRILL PARKER SHAW, INC., DATED 12/06/2008 (SEE SHEET C02.0 & C02.1).

SHEET INDEX	
NO.	TITLE
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C02.1	ALTA/ACSM SURVEY II (BY OTHERS)
C02.2	DEMOLITION PLAN I
C02.3	DEMOLITION PLAN II
C03.0	OVERALL SITE PLAN
C03.1	SITE PLAN
C03.2	BUILDING AREA DETAIL I
C03.3	BUILDING AREA DETAIL II
C03.4	BUILDING AREA DETAIL III
C03.5	BUILDING AREA DETAIL IV
C03.6	STAKING PLAN
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C04.2	UTILITY DETAILS II
C04.3	UTILITY DETAILS III
C04.4	UTILITY DETAILS IV
C04.5	UTILITY DETAILS V
C04.6	UTILITY DETAILS VI
C04.7	PROFILES I
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C04.9	PROFILES III
C04.10	PROFILES IV
C05.0	GRADING AND DRAINAGE PLAN
C05.1	BUILDING AREA GRADING DETAIL I
C05.2	BUILDING AREA GRADING DETAIL II
C05.3	BUILDING AREA GRADING DETAIL III
C05.4	BUILDING AREA GRADING DETAIL IV
C05.5	OFFSITE GRADING DETAIL
C06.0	SWPPP
C06.1	ESPC PLAN
C06.2	ESPC DETAILS I
C06.3	ESPC DETAILS II
C06.4	ESPC DETAILS III
C06.5	ESPC DETAILS IV
C06.6	ESPC DETAILS V
LP100	LANDSCAPE PLAN (1 OF 4 BY OTHERS)
LP500	LANDSCAPE PLAN (2 OF 4 BY OTHERS)
LI100	LANDSCAPE PLAN (3 OF 4 BY OTHERS)
LI500	LANDSCAPE PLAN (4 OF 4 BY OTHERS)



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JAMES D. NEFF, PE ON THE DATE ADJACENT TO THE SEAL.

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CLIENT:  
PEACHTREE HOTEL GROUP  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

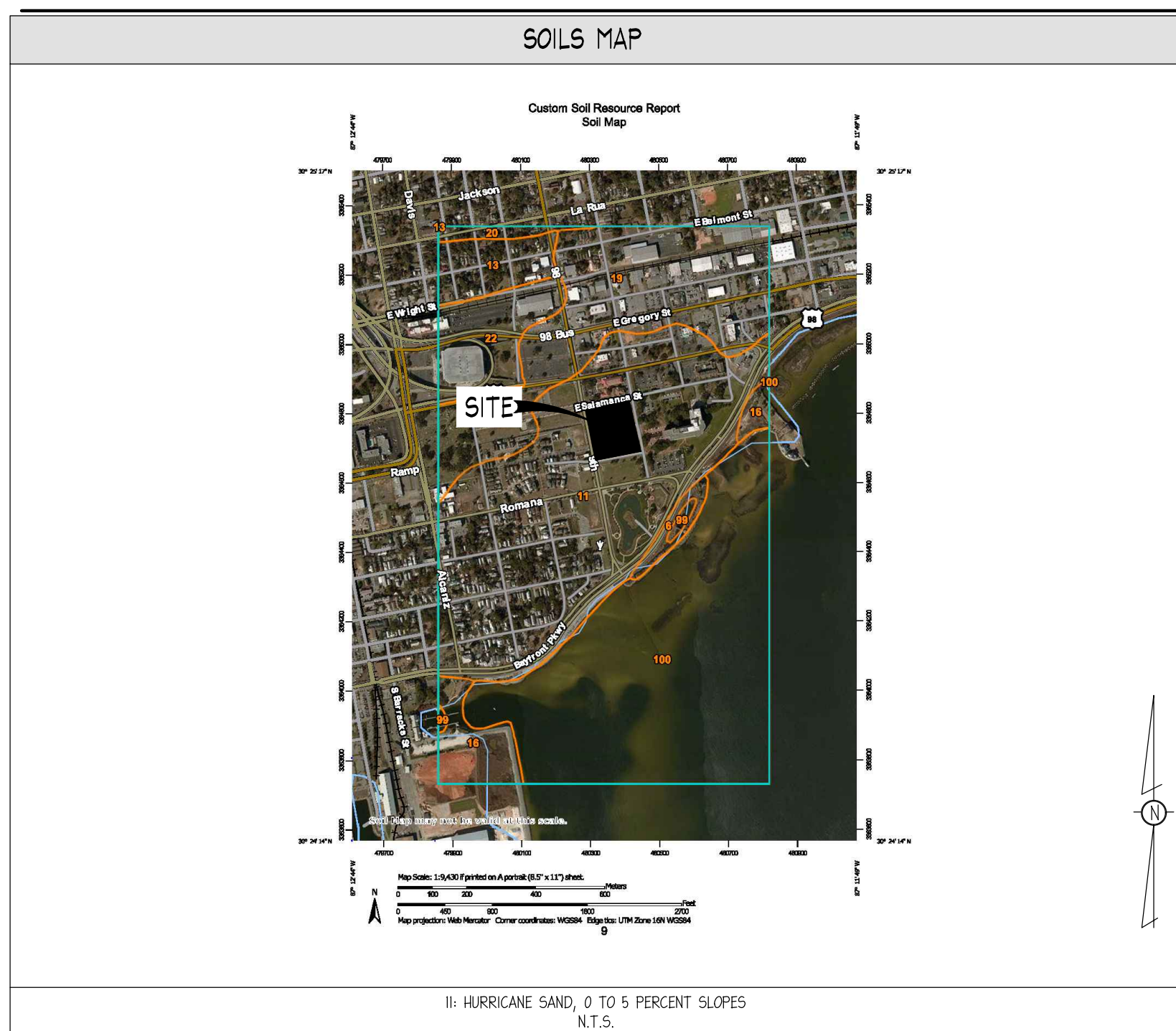
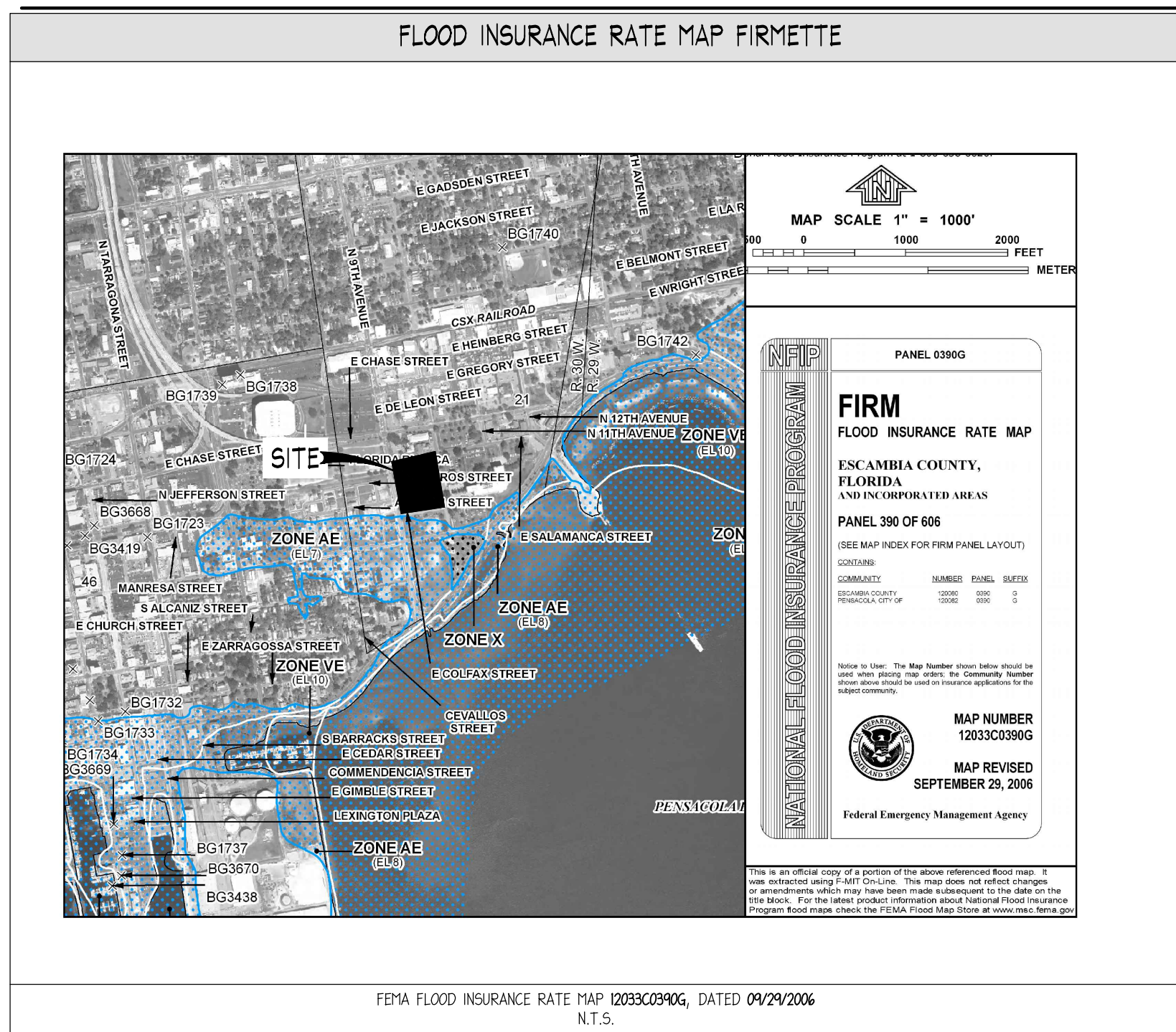
REVISION HISTORY	
1	ISSUE FOR PERMIT/PRICING

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PROJ # 170071  
DWG NAME 170071 COLLING  
ISSUE DATE 05/17/2019  
PROJ TSGR JT

COVER SHEET  
C01.0  
SHEET NUMBER

ISSUE FOR PERMIT/PRICING



### ABBREVIATIONS

ASPH	=	ASPHALT
BC	=	BOTTOM OF CURB
BFP	=	BACKFLOW PREVENTER
BH	=	BOTTOM OF WALL
CG	=	CURB AND GUTTER
C.B.	=	CHORD BEARING
CB	=	CATCH BASIN
CF	=	CUBIC FEET
C	=	CENTERLINE
CMP	=	CORRUGATED METAL PIPE
Co	=	GENERAL CLEAN OUT
CONC.	=	CONCRETE
CA	=	COLD WATER SUPPLY
CY	=	CUBIC YARD
D.O.T.	=	DEPARTMENT OF TRANSPORTATION
DI	=	DROP INLET
DS	=	DOWN SPOUT
DIP	=	DIP
E	=	EAST
EL	=	ELEVATION
EGL	=	ENERGY GRADE LINE
EXIST.	=	EXISTING
FDC	=	FIRE DEPARTMENT CONNECTION
FES	=	FLARED END SECTION
FFE	=	FINISH FLOOR ELEVATION
FH	=	FIRE HYDRANT
GF	=	GROSS SQUARE FEET
GT	=	GREASE TRAP
GV	=	GATE VALVE
HDPE	=	HIGH DENSITY POLYETHYLENE
HGL	=	HYDRAULIC GRADE LINE
HW	=	HOT WATER SUPPLY
I	=	INTERNAL ANGLE
INV.	=	INVERT
IRR	=	IRRIGATION
L	=	LENGTH OF CURVE
L.C.	=	LENGTH OF CHORD
LFEE	=	LOWER FINISH FLOOR ELEVATION
LP	=	LIGHT POLE/FIXTURE
LS	=	LANDSCAPE
MH	=	MANHOLE
N	=	NORTH
PC	=	POINT OF CURVATURE
PI	=	POINT OF INTERSECTION
PIV	=	POST INDICATOR VALVE
PROP	=	PROPOSED
PT	=	POINT OF TANGENCY
PVC	=	POLYVINYL CHLORIDE PIPE
R	=	RADIUS OF CURVE
RCP	=	REINFORCED CONCRETE PIPE
RD	=	ROOF DRAIN
R/W	=	RIGHT-OF-WAY
S	=	SOUTH
SF	=	SQUARE FEET
SSE	=	SANITARY SEWER EASEMENT
STD	=	STANDARD
SY	=	SQUARE YARD
T	=	TANGENT OF CURVE LENGTH
TC	=	TOP OF CURB
TB	=	THRUST BLOCKING
TH	=	TOP OF WALL
TYP.	=	TYPICAL
W	=	WEST
WM	=	WATER METER
W.S.	=	WATER SURFACE
W.S.E.	=	WATER SURFACE ELEVATION
YR	=	YEAR

SEE SURVEY/EXISTING CONDITIONS FOR ABBREVIATIONS SPECIFIC TO THAT SHEET

### DEFINITIONS

**ISSUED FOR PERMITTING:**  
DRAWINGS ARE INTENDED FOR SUBMITTAL TO THE JURISDICTION(S) HAVING AUTHORITY FOR REVIEW, COMMENT, AND/OR APPROVAL. DRAWINGS ARE NOT INTENDED FOR PRICING, BID, OR CONSTRUCTION.

**NOT ISSUED FOR CONSTRUCTION:**  
DRAWINGS ARE INTENDED FOR SUBMITTAL TO THE JURISDICTION(S) HAVING AUTHORITY FOR REVIEW, COMMENT, AND/OR APPROVAL. DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION.

**ISSUED FOR CONSTRUCTION:**  
DRAWINGS ARE INTENDED FOR PRICING, BID, AND/OR CONSTRUCTION.

**Right**

- THREAT OR GRATE ELEVATION FOR CURB INLETS.
- TOP OF STRUCTURE FOR JUNCTION BOXES/CKTS.
- TOP OF STRUCTURE FOR SANITARY MANHOLES AND CLEANOUTS.

### CITY OF PENSACOLA GENERAL NOTES

- ANY DEVIATIONS FROM THE APPROVED PLANS WILL REQUIRE APPROVAL FROM BOTH THE PROJECT ENGINEER AND THE CITY OF PENSACOLA.
- ALL CURB AND GUTTER, SIDEWALK, AND HANDICAP RAMP SHALL BE A MINIMUM OF 3,000 PSI CONCRETE AT 28 DAYS WITH FIBERESH.
- SHOULD OFF-SITE TRACKING OF DIRT AND SEDIMENT OCCUR, A ROCK CONSTRUCTION ENTRANCE WILL BE REQUIRED.
- NO SITE WORK ACTIVITIES SHALL TAKE PLACE WITHOUT CITY SITE REVIEW/APPROVAL OF PROPOSED EROSION CONTROL MEASURES AND ADVANCED NOTIFICATION OF THE REQUESTED INSPECTION IS REQUIRED.
- THE DEPARTMENT OF PUBLIC WORKS MUST BE NOTIFIED WITHIN 72 HOURS OF ANY PROPOSED STORMWATER CONNECTION ON EXISTING STORMWATER SYSTEM.
- THE CONTRACTOR SHALL PROVIDE TO THE DEPARTMENT OF PUBLIC WORKS THEIR PROPOSED DEWATERING METHOD AND NPDES PERMIT PRIOR TO COMMENCING ANY PUMPING OPERATIONS. TURBIDITY READINGS WILL BE COLLECTED BY PUBLIC WORKS IMMEDIATELY UPON INITIATING DEWATERING OPERATIONS TO VERIFY NPDES COMPLIANCE.
- ALL EXISTING BROKEN DRIVEWAYS, SIDEWALKS, AND/OR CURB AND GUTTER SHALL BE REPLACED.
- PUBLIC WORKS STAFF SHALL BE NOTIFIED PRIOR TO PERFORMING ANY WORK IN CITY RIGHT OF WAY OR ON THE ASPHALT MASON PARK PROPERTY.
- CONTRACTOR SHALL SUBMIT TO THE CITY OF PENSACOLA THEIR COFFER DAM PLAN FOR INSTALLATION OF STRUCTURE A0. THIS PLAN SHALL INCLUDE NUMEROUS ROWS OF TURBIDITY CURTAIN.
- CONTRACTOR SHALL SUBMIT TO THE CITY OF PENSACOLA THEIR PROPOSED SHORING PLAN FOR INSTALLATION OF STRUCTURE A0.
- THE CONTRACTOR SHALL PROVIDE TO THE PUBLIC WORKS DEPARTMENT THEIR PROPOSED DEWATERING METHOD AND NPDES PERMIT PRIOR TO COMMENCING ANY PUMPING OPERATIONS. TURBIDITY READINGS WILL BE COLLECTED BY PUBLIC WORKS IMMEDIATELY UPON INITIATING DEWATERING OPERATIONS TO VERIFY NPDES COMPLIANCE.
- CONTRACTOR SHALL SUBMIT MOT PLANS AS FOLLOWS: PLEASE PROVIDE DETAILS WITHIN THE PLANS INSTRUCTING THE CONTRACTOR ON HOW TO SET UP THEIR MOT AND DETOUR PLAN AS WELL AS INSTRUCTIONS FOR OBTAINING CITY APPROVAL TO OPEN CUT ADJACENT ROADS. THIS PROCESS REQUIRES SUBMITTAL OF A SKETCH/DRAWING OF THE PROPOSED MOT APPURTENANCES AS WELL AS SCHEDULED START AND FINISH DATE TO BOTH BRANDYHOTTE@CITYOFPENSACOLA.COM AND RYAN NOVOTIA@CITYOFPENSACOLA.COM WITH THE CITY OF PENSACOLA.

### EXISTING CONDITIONS LEGEND

DESCRIPTION	LINETYPE/SYMBOL
IRRIGATION CONTROL VALVE	ICV
IRON PIN FOUND	IPF
IRON PIN SET (1/2" RB)	IPS
OPEN TOP PIPE	OT
CRIMP TOP PIPE	CT
CONCRETE MONUMENT FOUND	CHF
MAIL AND CAP	N 4 C
REBAR	RB
POWER POLE	PP
TELEPHONE POLE	TP
LAND LOT	LL
LAND LOT LINE	LLL
POINT OF BEGINNING	POB
BUILDING LINE	BL
CENTER LINE	CL
PROPERTY LINE	PL
FIRE HYDRANT	FH
HEADWALL	HW
JUNCTION BOX	JB
DRAINAGE EASEMENT	DE
WATER METER	WM
WATER TAP OR TEE	WT
GATE VALVE (GV)	GV
THRUST BLOCK (TB)	TB
FIRE HYDRANT (FH)	FH
FIRE DEPARTMENT CONNECTION (FDC)	FDC
SANITARY SEWER (SS)	SS
SANITARY MANHOLE (SSMH)	SSMH
GENERAL CLEAN OUT (CO)	CO
SAMPLING MANHOLE	SMH
SANITARY STRUCTURE NUMBER	SN
UNDERGROUND ELECTRIC LINE-PRIMARY	UGE-P
UNDERGROUND ELECTRIC LINE-SECONDARY	UGE-S
POST INDICATOR VALVE	PIV
SITE LIGHTING POLE	SLP
TRANSFORMER PAD	TP
METER/CT PEDESTAL	CT
UNDERGROUND TELEPHONE LINE	UGT
GENERAL UTILITY CONDUIT	GU
GAS LINE	G
GAS METERS	G
GAS LINE	GAS
WATER LINE	WAT
SANITARY SEWER LINE	SAN
STORM DRAINAGE PIPE	SD
OVERHEAD ELECTRIC LINE	OH ELE
OVERHEAD ELECTRIC/TELEPHONE/TV LINE	OH E/T/TV

### GENERAL NOTES

- INGENIUM ENTERPRISES, INC. (IE) REGULARLY UPDATES ELECTRONIC FILES DURING THE DEVELOPMENT OF A PROJECT. AS A RESULT, THE DATA INCLUDED IN ANY CAD FILE OR DRAWING PRIOR TO ITS FINAL RELEASE DOES NOT NECESSARILY REFLECT THE COMPLETE SCOPE OR CONTENT AS DEFINED IN THE CONTRACT. THE CONTENTS IN THESE FILES MAY THEREFORE BE PRELIMINARY, INCOMPLETE WORK IN PROGRESS, AND SUBJECT TO CHANGE. FURTHERMORE, THE INFORMATION CONTAINED HEREIN IS THE EXCLUSIVE PROPERTY OF IE. THE ORIGINAL IDEAS REPRESENTED HERE BY THIS INFORMATION SHALL NOT BE USED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF IE.
- DEVIATIONS FROM THESE PLANS AND NOTES WITHOUT PRIOR CONSENT OF THE OWNER, HIS REPRESENTATIVE, OR THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE PROJECT, READY TO USE, AND ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB SHALL BE FURNISHED AND INSTALLED. THIS INCLUDES ALL STRIPING AND SIGNAGE.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. CONTRACTOR TO COMPLY WITH ALL OSHA REGULATIONS REQUIREMENTS AND SAFETY MEETING REQUIREMENTS.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION, MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES, OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

### PROPOSED LEGEND

GENERAL	LINETYPE/SYMBOL	REFERENCE
RIGHT-OF-WAY/PROPERTY LINE	---	SEE PLANS
CENTERLINE	---	SEE PLANS
LIMITS OF CONSTRUCTION	---	SEE PLANS
DETAIL REFERENCE	+	SEE PLANS
ADDENDUM AND/OR REVISION REFERENCE	+	SEE PLANS

SITE/HARDSCAPE	LINETYPE/SYMBOL	REFERENCE
CHAIN LINK FENCE	---	NOT APPLICABLE
RETAINING WALL	---	NOT APPLICABLE
SCREEN WALL/DUMPSTER ENCLOSURE	---	SEE ARCH PLANS
CURB 4 GUTTER	---	DETAIL 5, SHEET C03.7
HEADER CURB	---	NOT APPLICABLE
CONCRETE SIDEWALK	---	DETAIL 8, SHEET C03.7

UTILITY	LINETYPE/SYMBOL	REFERENCE
DOMESTIC WATER LINE	---	4" PVC
FIRE WATER LINE	---	8" DIP
BUILDING FIRE SPRINKLER LINE	---	4" DIP
IRRIGATION WATER LINE	---	2" SDR 21 PVC
DOMESTIC WATER METER (NM)	---	(3") DETAIL 1, SHEET C04.4
IRRIGATION METER (IRR)	---	(2") DETAIL 1, SHEET C04.4
BACKFLOW PREVENTER (BFP)	---	DETAIL 2, SHEET C04.2
FIRE VAULT (DDC)	---	NOT APPLICABLE
DCDA BACKFLOW PREVENTER	---	DETAIL 4, SHEET C04.4
WATER TAP OR TEE	---	DETAIL 4, SHEET C04.2
GATE VALVE (GV)	---	DETAIL 3, SHEET C04.3
THRUST BLOCK (TB)	---	DETAIL 2, SHEET C04.3
FIRE HYDRANT (FH)	---	DETAIL 4, SHEET C04.3
FIRE DEPARTMENT CONNECTION (FDC)	---	SEE ARCH. PLANS
SANITARY SEWER (SS)	---	4" PVC
SANITARY MANHOLE (SSMH)	---	DETAIL 1, SHEET C04.3
GENERAL CLEAN OUT (CO)	---	DETAIL 3, SHEET C04.2
SAMPLING MANHOLE	---	DETAIL 1, SHEET C04.3
SANITARY STRUCTURE NUMBER	---	SEE PLANS
UNDERGROUND ELECTRIC LINE-PRIMARY	---	(3) 5" PVC
UNDERGROUND ELECTRIC LINE-SECONDARY	---	(3) 5" PVC
POST INDICATOR VALVE	---	NOT APPLICABLE
SITE LIGHTING POLE	---	SEE ARCH. PLANS
TRANSFORMER PAD	---	DETAIL 10, SHEET C03.7
METER/CT PEDESTAL	---	NOT APPLICABLE
UNDERGROUND TELEPHONE LINE	---	(2) 4" PVC
GENERAL UTILITY CONDUIT	---	(2) 2" PVC
GAS LINE	---	2" HDPE
GAS METERS	---	2"

**\*\* ALL UTILITIES SHALL BE INSTALLED ACCORDING TO UTILITY PROVIDERS AND JURISDICTION STANDARDS AND SPECIFICATIONS.**

### GRADING/DRAINAGE

GRADING/DRAINAGE	LINETYPE/SYMBOL	REFERENCE
GRADE	---	SEE PLANS
SPOT ELEVATION	---	SEE PLANS
STORM DRAIN	---	SEE PLANS
HEADWALL (HW) / FLARED END SECTION (FES)	---	DETAIL 1, SHEET C04.6
DROP INLET (GRATE)	---	DETAIL 1, SHEET C04.5
DROP INLET (GRATE AND HOOD)	---	DETAIL 3, SHEET C04.4
JUNCTION BOX (JB) / OCS	---	DETAIL 1, SHEET C04.3
CATCH BASIN (SINGLE WING)	---	NOT APPLICABLE
CATCH BASIN (DOUBLE WING)	---	DETAIL 2, SHEET C04.4
PEDESTAL TOP	---	NOT APPLICABLE
STORM STRUCTURE NUMBER	---	SEE PLANS

### ESPC BMP

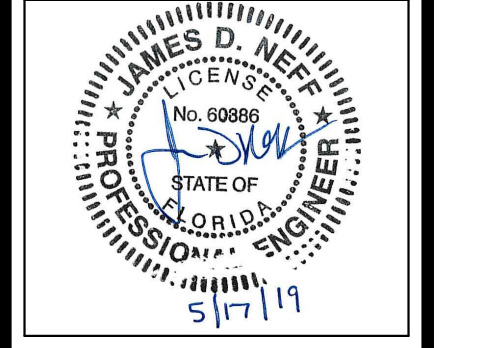
ESPC BMP	LINETYPE/SYMBOL	REFERENCE
CONSTRUCTION EXIT	---	SHEET C06.2
SEDIMENT FENCE	---	SHEET C06.2
INLET PROTECTION	---	SHEET C06.4
OUTLET PROTECTION	---	SHEET C06.5
TEMPORARY SEEDING	---	SHEET C06.3
PERMANENT SEEDING	---	SHEET C06.3
TEMPORARY MAT	---	NOT APPLICABLE
STAKED TURBIDITY BARRIER	---	SHEET C06.3
COFFER DAM	---	SHEET C06.6
TREE PROTECTION FENCE	---	SHEET L01.1
LIMITS OF CONSTRUCTION	---	SEE PLANS

SEE LANDSCAPE/TREE PROTECTION PLANS FOR LEGEND SPECIFIC TO THOSE SHEETS



**ingenium**  
ENTERPRISES  
PLANNING & ENGINEERING

14491 N DALE HENRY HWY  
SUITE 250  
TAMPA, FL 33618  
813.367.0004  
WWW.INGENIUMENTERPRISES.COM



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JAMES D. NEFF, PE ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

HILTON GARDEN INN  
EAST SALAYANCA STREET  
PENSACOLA, FLORIDA



CLIENT:  
**PEACHTREE HOTEL GROUP**  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

### REVISION HISTORY

NO.	DESCRIPTION	DATE
1	ISSUE FOR PERMIT/PRICING	05/17/2014

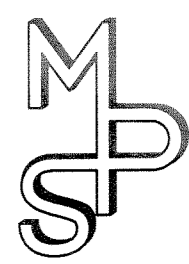
THE CIVIL ENGINEER REGULARLY UPDATES ELECTRONIC FILES DURING THE DEVELOPMENT OF A PROJECT. AS A RESULT, THE DATA INCLUDED IN ANY CAD FILE OR DRAWING PRIOR TO ITS FINAL RELEASE DOES NOT NECESSARILY REFLECT THE COMPLETE SCOPE OR CONTENT AS DEFINED IN THE CONTRACT. THE ORIGINAL IDEAS REPRESENTED HERE BY THIS INFORMATION SHALL NOT BE USED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE CIVIL ENGINEER. THESE PLANS ARE SUBJECT TO FEDERAL COPYRIGHT LAWS AND USE OF SAME WITHOUT EXPRESSED WRITTEN PERMISSION OF THE CIVIL ENGINEER IS PROHIBITED.

PROJ #	170071
DWG NAME	170071 COLLING
ISSUE DATE	05/17/2014
PROJ TSGR	JT

GENERAL NOTES

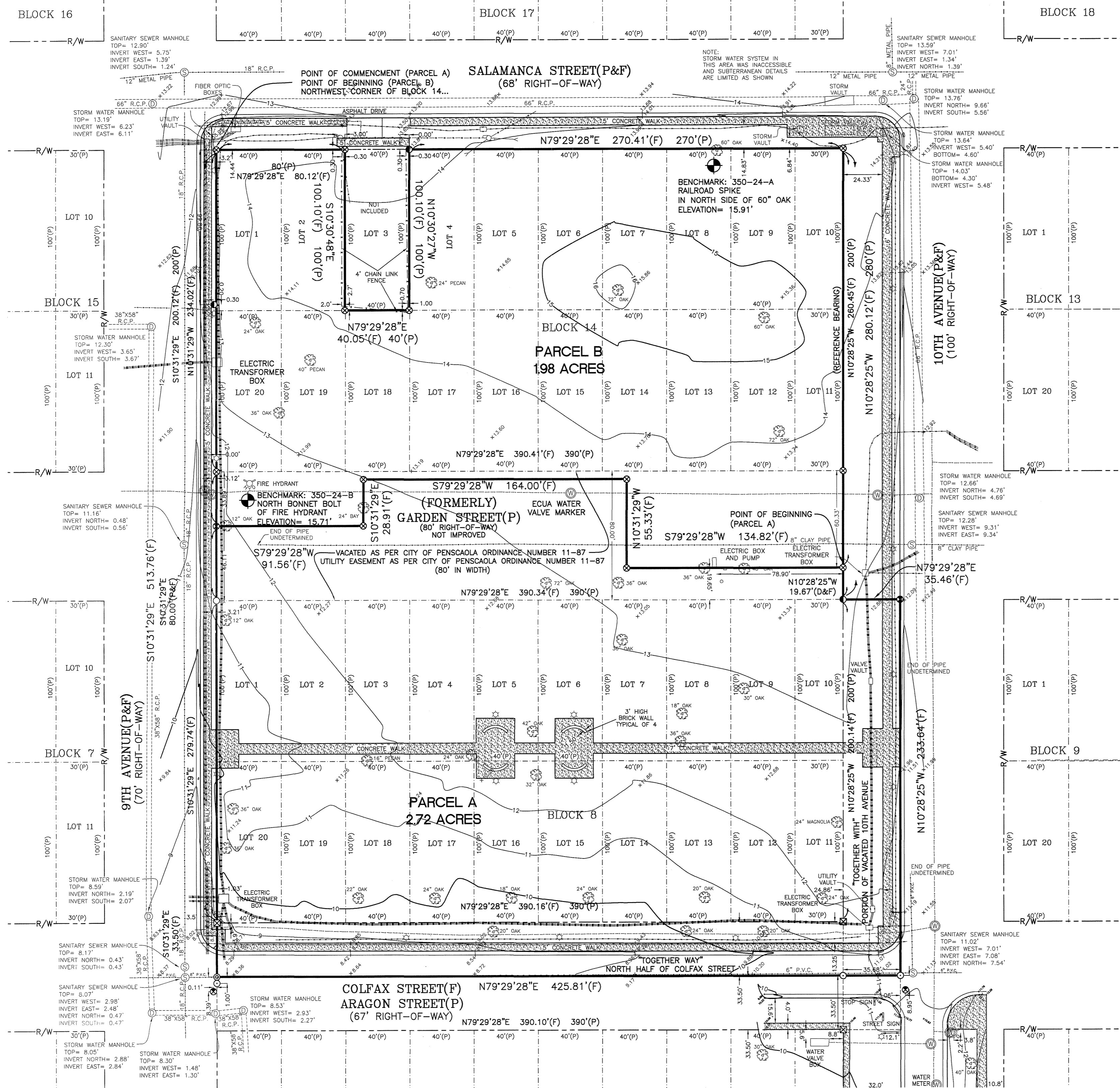
C01.1  
SHEET NUMBER

ISSUE FOR PERMIT/PRICING



# ALTA/NSPS LAND TITLE BOUNDARY AND TOPOGRAPHIC SURVEY

## OF A PORTION OF SECTION 22, TOWNSHIP-2-SOUTH, RANGE-30-WEST, ESCAMBIA COUNTY, FLORIDA.

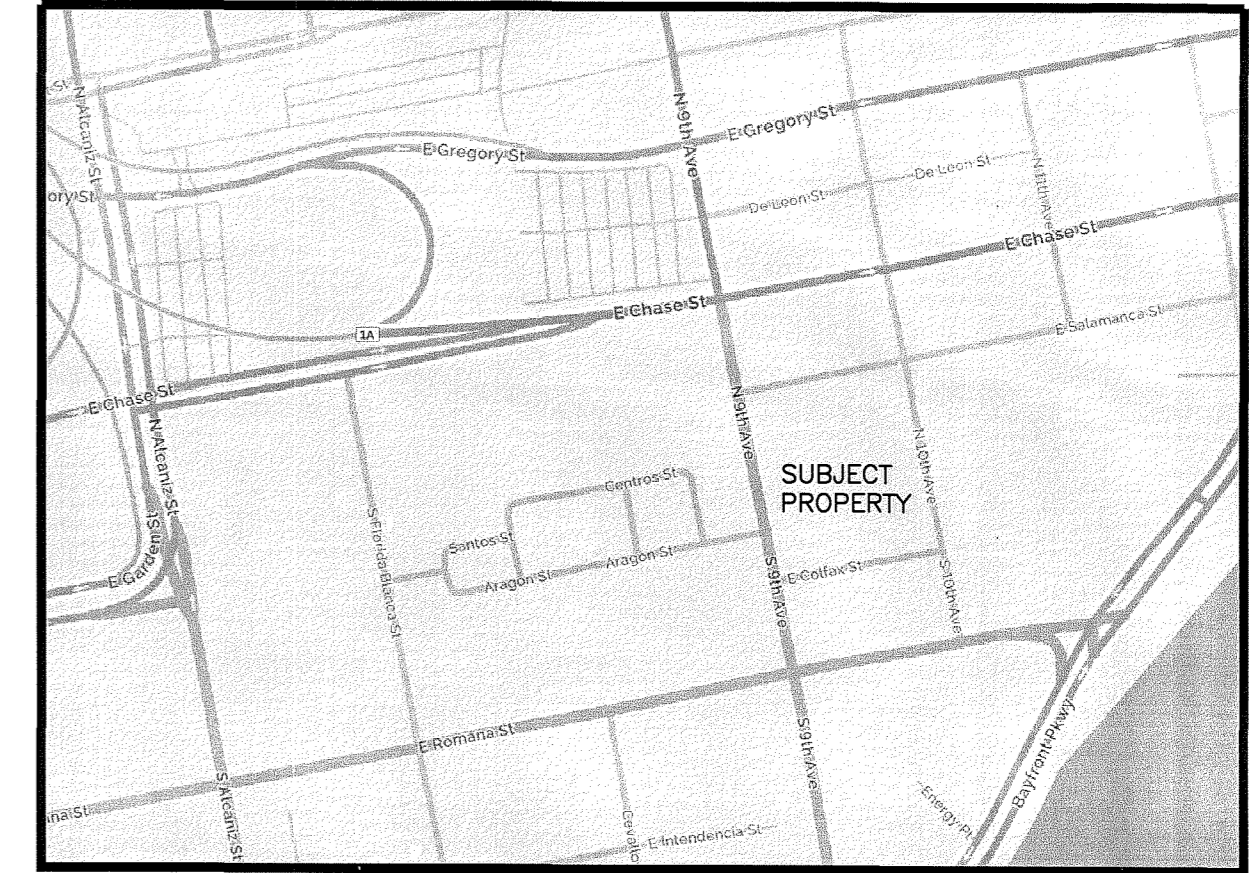


### LEGAL DESCRIPTION: (AS PREPARED BY MERRILL PARKER SHAW, INC.)

**PARCEL A**  
 COMMENCE AT THE NORTHWEST CORNER OF BLOCK 14 OF THE NEW CITY TRACT, ACCORDING TO THE MAP OF THE CITY OF PENSACOLA, COPYRIGHTED BY THOMAS C. WATSON IN 1906; THENCE GO NORTH 79 DEGREES 29 MINUTES 28 SECONDS EAST ALONG THE NORTH LINE OF SAID BLOCK 14, FOR A DISTANCE OF 80.12 FEET TO THE NORTHWEST CORNER OF LOT 3, BLOCK 14 OF SAID NEW CITY TRACT; THENCE GO SOUTH 10 DEGREES 30 MINUTES 48 SECONDS EAST ALONG THE WEST LINE OF SAID LOT 3, FOR A DISTANCE OF 100.10 FEET TO THE SOUTHWEST CORNER OF SAID LOT 3; THENCE GO NORTH 79 DEGREES 29 MINUTES 28 SECONDS EAST ALONG THE SOUTH LINE OF SAID LOT 3, FOR A DISTANCE OF 40.05 FEET TO THE SOUTHWEST CORNER OF SAID LOT 3; THENCE GO NORTH 10 DEGREES 30 MINUTES 27 SECONDS WEST ALONG THE EAST LINE OF SAID BLOCK 14, FOR A DISTANCE OF 100.10 FEET TO THE NORTHEAST CORNER OF SAID LOT 3; THENCE GO NORTH 79 DEGREES 29 MINUTES 28 SECONDS EAST ALONG THE NORTH LINE OF SAID BLOCK 14, FOR A DISTANCE OF 270.41 FEET TO THE NORTHEAST CORNER OF SAID BLOCK 14; THENCE GO SOUTH 10 DEGREES 28 MINUTES 25 SECONDS WEST ALONG THE EAST LINE OF SAID BLOCK 14, FOR A DISTANCE OF 280.45 FEET TO THE POINT OF BEGINNING; THENCE DEPARTING THE EAST LINE OF SAID BLOCK 14, GO SOUTH 79 DEGREES 29 MINUTES 28 SECONDS WEST, FOR A DISTANCE OF 164.00 FEET; THENCE GO SOUTH 10 DEGREES 31 MINUTES 29 SECONDS EAST, FOR A DISTANCE OF 28.91 FEET; THENCE GO SOUTH 79 DEGREES 29 SECONDS EAST, FOR A DISTANCE OF 28.91 FEET; THENCE GO NORTH 10 DEGREES 28 MINUTES 25 SECONDS WEST, FOR A DISTANCE OF 91.56 FEET TO THE INTERSECTION WITH THE WEST LINE OF SAID BLOCK 14; THENCE GO SOUTH 10 DEGREES 31 MINUTES 29 SECONDS EAST ALONG THE WEST LINE OF SAID BLOCK 14, FOR A DISTANCE OF 279.74 FEET TO THE INTERSECTION WITH THE CENTERLINE OF VACATED COLFAX STREET (67 FOOT RIGHT-OF-WAY); THENCE GO NORTH 79 DEGREES 29 MINUTES 28 SECONDS EAST ALONG THE CENTERLINE OF SAID COLFAX STREET, FOR A DISTANCE OF 425.81; THENCE GO NORTH 10 DEGREES 28 MINUTES 25 SECONDS WEST, FOR A DISTANCE OF 233.64 FEET; THENCE GO SOUTH 79 DEGREES 29 MINUTES 28 SECONDS WEST, FOR A DISTANCE OF 35.46 FEET TO THE EAST LINE OF SAID BLOCK 14; THENCE GO NORTH 10 DEGREES 28 MINUTES 25 SECONDS WEST ALONG THE EAST LINE OF SAID BLOCK 14, FOR A DISTANCE OF 19.67 FEET TO THE POINT OF BEGINNING.

**PARCEL B**  
 BEGINNING AT THE NORTHWEST CORNER OF BLOCK 14 OF THE NEW CITY TRACT, ACCORDING TO THE MAP OF THE CITY OF PENSACOLA, COPYRIGHTED BY THOMAS C. WATSON IN 1906; THENCE GO NORTH 79 DEGREES 29 MINUTES 28 SECONDS EAST ALONG THE NORTH LINE OF SAID BLOCK 14, FOR A DISTANCE OF 80.12 FEET TO THE NORTHWEST CORNER OF LOT 3, BLOCK 14 OF SAID NEW CITY TRACT; THENCE GO SOUTH 10 DEGREES 30 MINUTES 48 SECONDS EAST ALONG THE WEST LINE OF SAID LOT 3, FOR A DISTANCE OF 100.10 FEET TO THE SOUTHWEST CORNER OF SAID LOT 3; THENCE GO NORTH 79 DEGREES 29 MINUTES 28 SECONDS EAST ALONG THE SOUTH LINE OF SAID LOT 3, FOR A DISTANCE OF 40.05 FEET TO THE SOUTHWEST CORNER OF SAID LOT 3; THENCE GO NORTH 10 DEGREES 30 MINUTES 27 SECONDS WEST ALONG THE EAST LINE OF SAID BLOCK 14, FOR A DISTANCE OF 100.10 FEET TO THE NORTHEAST CORNER OF SAID LOT 3; THENCE GO NORTH 79 DEGREES 29 MINUTES 28 SECONDS EAST ALONG THE NORTH LINE OF SAID BLOCK 14, GO SOUTH 79 DEGREES 29 MINUTES 28 SECONDS WEST, FOR A DISTANCE OF 164.00 FEET; THENCE GO SOUTH 10 DEGREES 31 MINUTES 29 SECONDS EAST, FOR A DISTANCE OF 28.91 FEET; THENCE GO SOUTH 79 DEGREES 29 SECONDS EAST, FOR A DISTANCE OF 28.91 FEET; THENCE GO NORTH 10 DEGREES 28 MINUTES 25 SECONDS WEST, FOR A DISTANCE OF 91.56 FEET TO THE INTERSECTION WITH THE WEST LINE OF SAID BLOCK 14; THENCE GO SOUTH 10 DEGREES 31 MINUTES 29 SECONDS EAST ALONG THE WEST LINE OF SAID BLOCK 14, FOR A DISTANCE OF 234.02 FEET TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED PARCEL IS SITUATED IN SECTION 22, TOWNSHIP-2-SOUTH, RANGE-30-WEST, ESCAMBIA COUNTY, FLORIDA AND CONTAINS 2.72 ACRES.



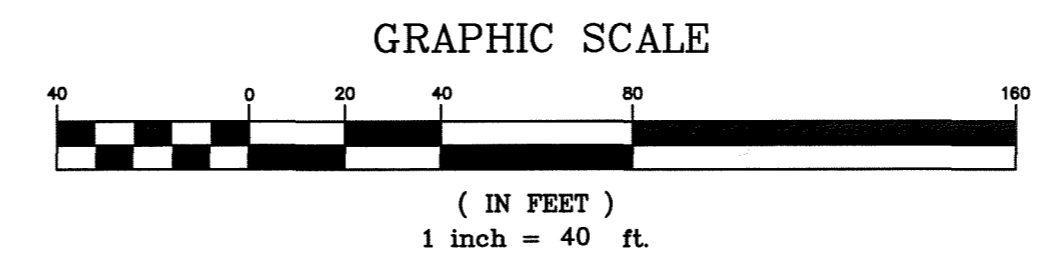
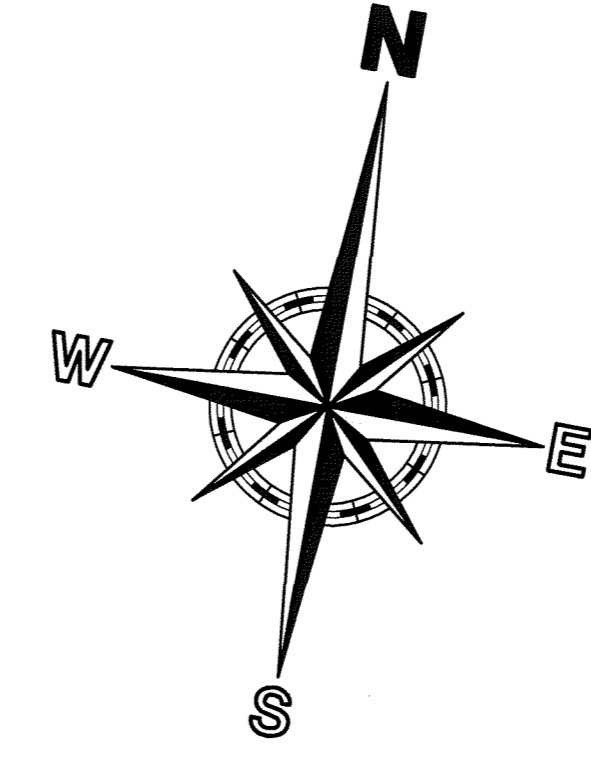
VICINITY MAP

### GENERAL NOTES:

- THE BEARINGS AS SHOWN HEREON ARE REFERENCED TO THE ASSUMED BEARING OF NORTH 10 DEGREES 28 MINUTES 25 SECONDS WEST ALONG THE EAST LINE OF THE SUBJECT PROPERTY.
- THE SURVEY DATUM AS SHOWN HEREON IS REFERENCED TO DEEDS OF RECORD AND TO EXISTING FIELD MONUMENTATION.
- A TITLE POLICY WAS PROVIDED TO MERRILL PARKER SHAW, INC., BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, POLICY NUMBER: G-13086, EFFECTIVE DATE: APRIL 1, 2016, FOR THE SUBJECT PROPERTY. THERE MAY BE UNRECORDED DEEDS, EASEMENTS, RIGHTS-OF-WAY, STATE AND/OR FEDERAL JURISDICTIONAL AREAS OR OTHER INSTRUMENTS WHICH COULD AFFECT THE SUBJECT PROPERTY.
- THIS SURVEY DOES NOT DETERMINE OWNERSHIP.
- THE MEASUREMENTS AS SHOWN HEREON WERE MADE TO UNITED STATES STANDARDS.
- FEDERAL AND STATE COPYRIGHT ACTS PROTECT THIS MAP FROM UNAUTHORIZED USE. THIS MAP IS NOT TO BE COPIED OR REPRODUCED IN WHOLE OR PART AND IS NOT TO BE USED FOR ANY OTHER TRANSACTIONS. THIS DRAWING CANNOT BE USED FOR THE BENEFIT OF ANY OTHER PERSON, COMPANY OR FIRM WITHOUT PRIOR WRITTEN CONSENT OF THE COPYRIGHT OWNER AND IS TO BE RETURNED UPON REQUEST.
- THE ABOVE GROUND VISIBLE ENCROACHMENTS AND IMPROVEMENTS WERE FIELD LOCATED AS SHOWN HEREON, UNLESS OTHERWISE NOTED, UNDER GROUND UTILITIES, AS SPOTTED BY UTILITY PROVIDERS, WERE FIELD LOCATED, THERE MAY EXIST ADDITIONAL UNDER GROUND UTILITIES THAT WERE NOT SPOTTED NOR FIELD LOCATED.
- THE DIMENSIONS OF THE BUILDINGS OR FOUNDATIONS DOES NOT INCLUDE ANY OVERHANGS OF FOOTERS.
- THE PROPERTY AS SHOWN HEREON IS SITUATED IN FLOOD ZONE "X", BASE FLOOD ELEVATION N/A, AS DETERMINED FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP OF ESCAMBIA COUNTY, FLORIDA, MAP NUMBER 12033C 0390G, REVISED SEPTEMBER 28, 2006.
- THE UTILITIES AS SHOWN HEREON IS BASED UPON FIELD LOCATION WHERE VISIBLE. THERE MAY BE OTHER GROUND UTILITIES THAT HAVE NOT BEEN LOCATED OR VERIFIED. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE RESPECTABLE UTILITY SPOTTERS PRIOR TO THE COMMENCEMENT OF WORK OR EXCAVATION.
- NO RECENT EARTH WORK WAS OBSERVED DURING THIS SURVEY.
- THERE EXISTS NO EVIDENCE OF CHANGES TO RIGHT-OF-WAY WIDTHS EXCEPT AS SHOWN HEREON.
- THERE EXISTS NO EVIDENCE OF DELINEATED WETLANDS ON THE SUBJECT PROPERTY.
- THE ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 FROM THE DEPARTMENT OF TRANSPORTATION BENCHMARK 48-09-COIV, AWIN A PUBLISHED ELEVATION OF 18.76 FEET.

SITE AREA: 4.70 ACRES, 204,854 SQUARE FEET

- DENOTES:
- ☒ - 4"x4" CONCRETE MONUMENT, NUMBERED 7174 (FOUND)
  - - 1/2" CAPPED IRON ROD, NUMBERED 7174 (FOUND)
  - - 1/2" CAPPED IRON ROD, NUMBERED 0340 (FOUND)
  - - 5/8" IRON ROD, UNNUMBERED (FOUND)
  - - 1" IRON PIPE, UNNUMBERED (FOUND)
  - - NAIL AND DISK, NUMBERED 7073 (FOUND)
  - - NAIL AND DISK, NUMBERED 6112 (FOUND)
  - ☆ - LIGHT POLE
  - R/W - RIGHT-OF-WAY
  - (P) - PLAT INFORMATION
  - (F) - FIELD INFORMATION
  - — — BIURED FIBER OPTIC LINE
  - — — BIURED GAS LINE
  - — — BIURED WATER LINE
  - — — BIURED ELECTRIC LINE
  - — — WATER VALVE
  - — — FIRE HYDRANT
  - — — GAS VALVE
  - — — TREE
  - — — SPOT ELEVATION
  - — — CONTOUR



SEE SHEET TWO

### CERTIFIED TO:

SAI LAXMI PENSACOLA, LLC.  
 That this map or plot and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1-4, 13, 14, 16, 17, 18, 19, and 20 of Table A thereof. The fieldwork was completed on 12/22/16.

FURTHERMORE:  
 I CERTIFY THAT THE SURVEY SHOWN HEREON MEETS THE FLORIDA STANDARDS OF PRACTICE SET FORTH BY THE BOARD OF PROFESSIONAL SURVEYORS & MAPPERS IN THE STATE OF FLORIDA, ACCORDING TO FLORIDA ADMINISTRATIVE CODE, CHAPTER 5J-17.050, CHAPTER 5J-17.051 AND 5J-17.052, PURSUANT TO SECTION 472.027 FLORIDA STATUTES.

**MERRILL PARKER SHAW, INC.**  
 4928 N. DAVIS HIGHWAY, PENSACOLA, FL. 32503

*E. Wayne Parker* 4/14/17  
 E. WAYNE PARKER, PROFESSIONAL LAND SURVEYOR  
 REGISTRATION NUMBER 3663 CORPORATE NUMBER 7174  
 STATE OF FLORIDA

NO.	DATE	APPR.	REVISIONS:
1	5/18/18	EP	ADD PARCEL A AND B DESCRIPTIONS, MOVE TOPOGRAPHIC INFORMATION
2	7/5/18	EP	ADD OFF-SITE INFORMATION
3	12/16/18	EP	ADD EASEMENT DIMENSIONS

NOT VALID WITHOUT THE ORIGINAL BASED SEAL OF A FLORIDA SURVEYOR AND MAPPER

**MERRILL PARKER SHAW, INC.**  
 PROFESSIONAL LAND SURVEYING SERVICES

4928 N. DAVIS HWY.  
 PENSACOLA, FL 32503  
 FLORIDA CORPORATION NUMBER 7174

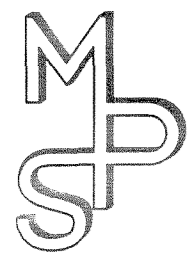
PH: (850) 478-4823  
 FAX: (850) 478-4824

SCALE: 1" = 40'  
 FIELD DATE: 12/22/16  
 FIELD BOOK: 343, PAGE: 41  
 FIELD BOOK: 348, PAGE: 19

DRAWN: AES  
 CHECKED: EWP  
 DATE: 4/12/17

ALTA/NSPS LAND TITLE  
 BOUNDARY AND TOPOGRAPHIC SURVEY  
 OF A PORTION OF SECTION 20, TOWNSHIP-2-SOUTH,  
 RANGE-30-WEST, ESCAMBIA COUNTY, FLORIDA.

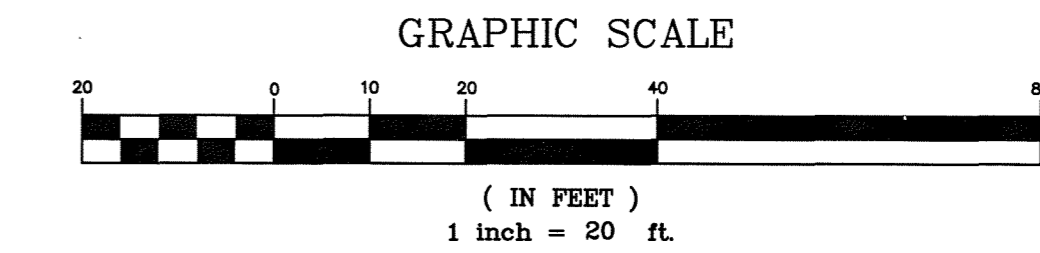
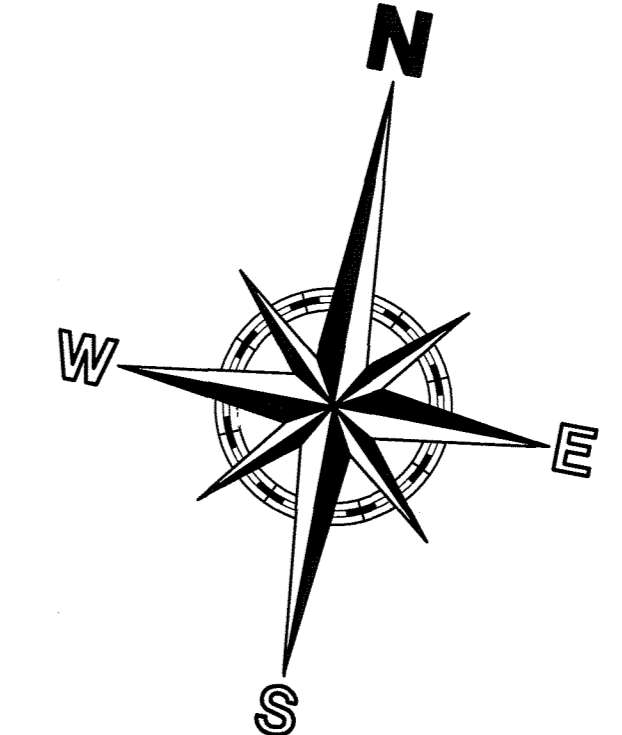
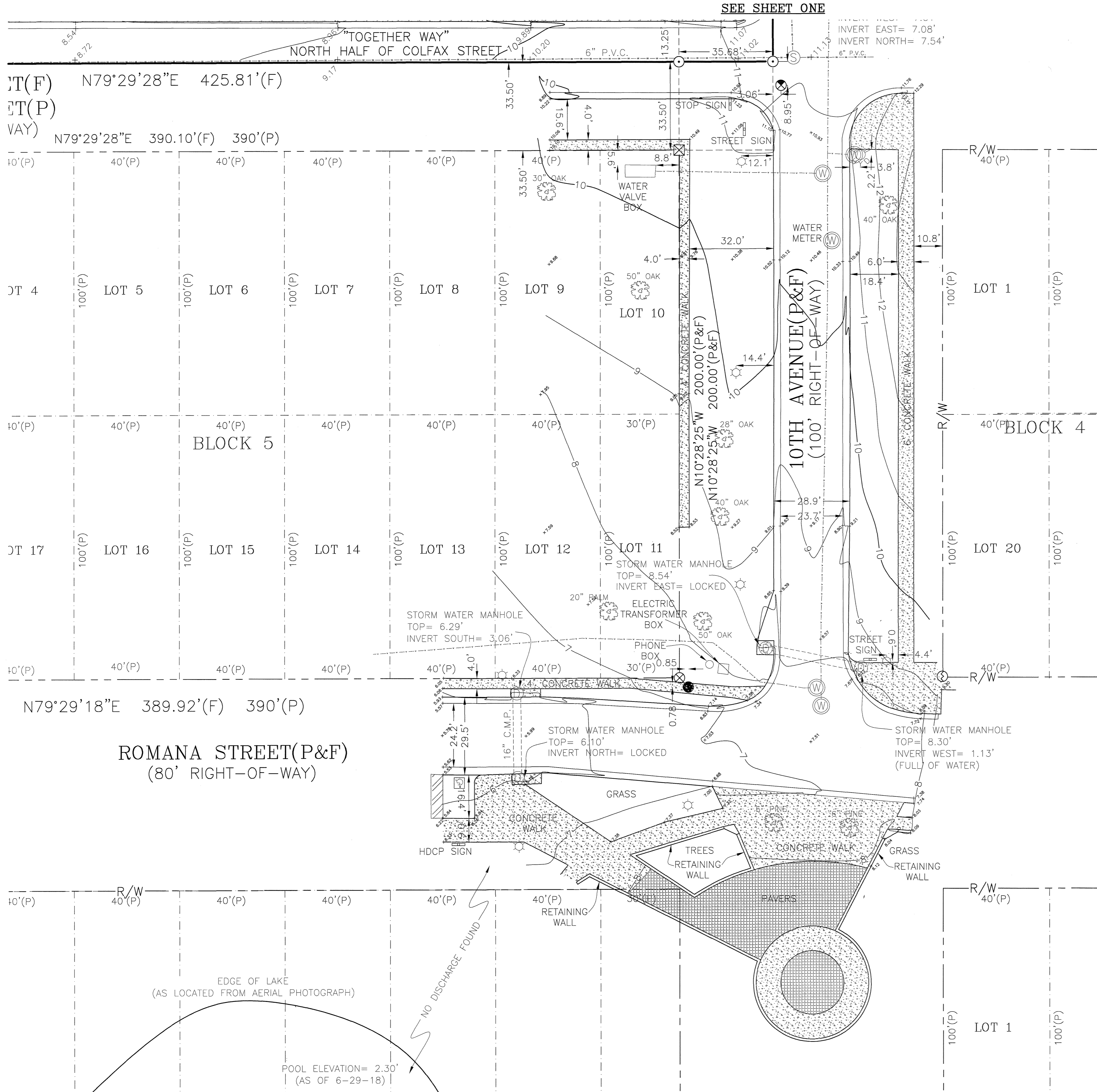
REQUESTED BY: MITESH PATEL  
 PREPARED FOR: SAI LAXMI PENSACOLA, LLC.



# ALTA/NSPS LAND TITLE BOUNDARY AND TOPOGRAPHIC SURVEY

OF A PORTION OF SECTION 22, TOWNSHIP-2-SOUTH,  
RANGE-30-WEST, ESCAMBIA COUNTY, FLORIDA.

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- DENOTES:**
- ⊠ - 4"x4" CONCRETE MONUMENT, NUMBERED 7174 (FOUND)
  - ⊙ - 1/2" CAPPED IRON ROD, NUMBERED 7174 (PLACED)
  - ⊙ - 1/2" CAPPED IRON ROD, NUMBERED 7174 (FOUND)
  - ⊙ - 1/2" CAPPED IRON ROD, NUMBERED 0340 (FOUND)
  - ⊙ - 5/8" IRON ROD, UNNUMBERED (FOUND)
  - ⊙ - 1" IRON PIPE, UNNUMBERED (FOUND)
  - ⊙ - NAIL AND DISK, NUMBERED 7174 (PLACED)
  - ⊙ - NAIL AND DISK, NUMBERED 7073 (FOUND)
  - ⊙ - NAIL AND DISK, NUMBERED 6112 (FOUND)
  - ⊙ - LIGHT POLE
  - R/W - RIGHT-OF-WAY
  - Ⓟ - PLAT INFORMATION
  - (F) - FIELD INFORMATION
  - - BIURED FIBER OPTIC LINE
  - - BIURED GAS LINE
  - - BIURED WATER LINE
  - - BIURED ELECTRIC LINE
  - ⊙ - WATER VALVE
  - ⊙ - FIRE HYDRANT
  - ⊙ - GAS VALVE
  - ⊙ - TREE
  - ⊙ - SPOT ELEVATION
  - - CONTOUR

NO.	DATE	APPR.	REVISIONS:
1	7/5/16	[Signature]	ADD OFF-SITE INFORMATION

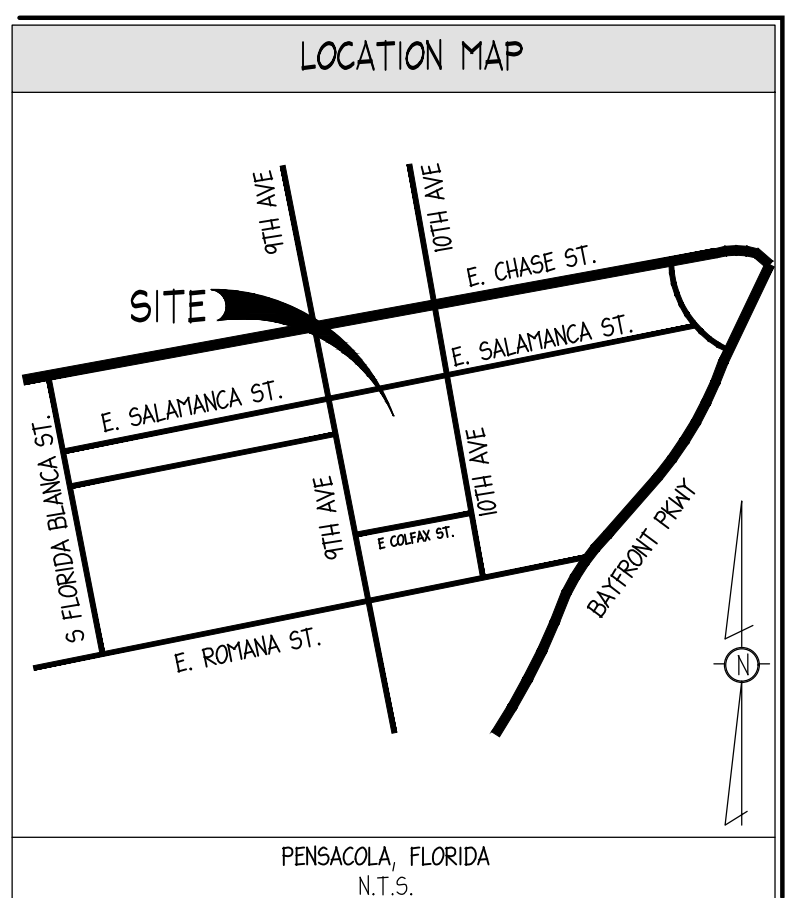
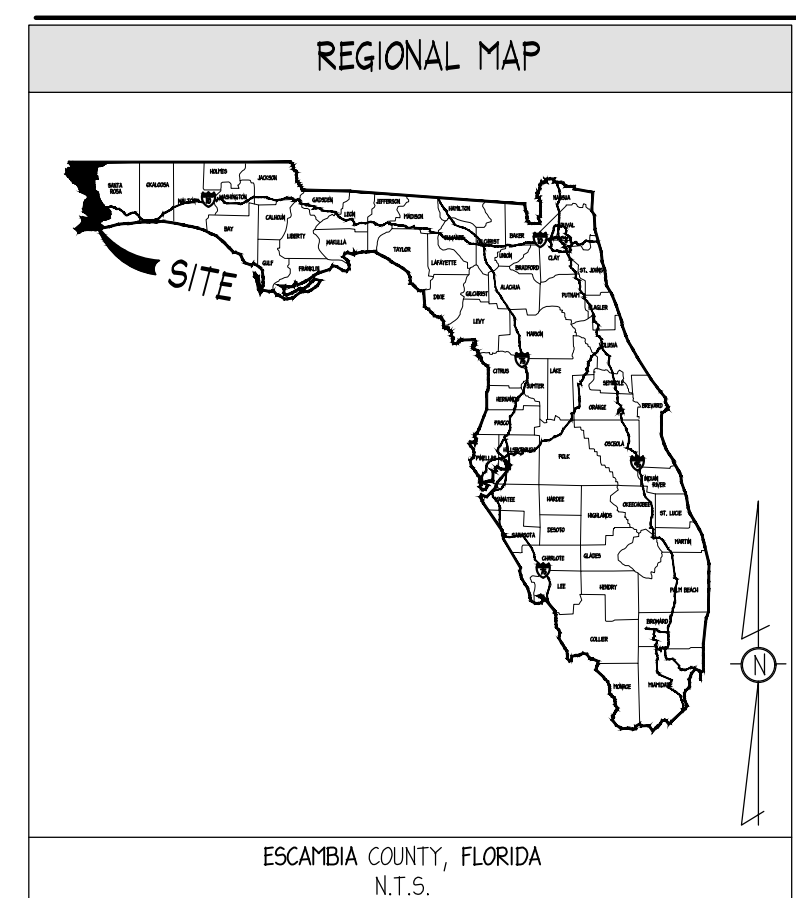
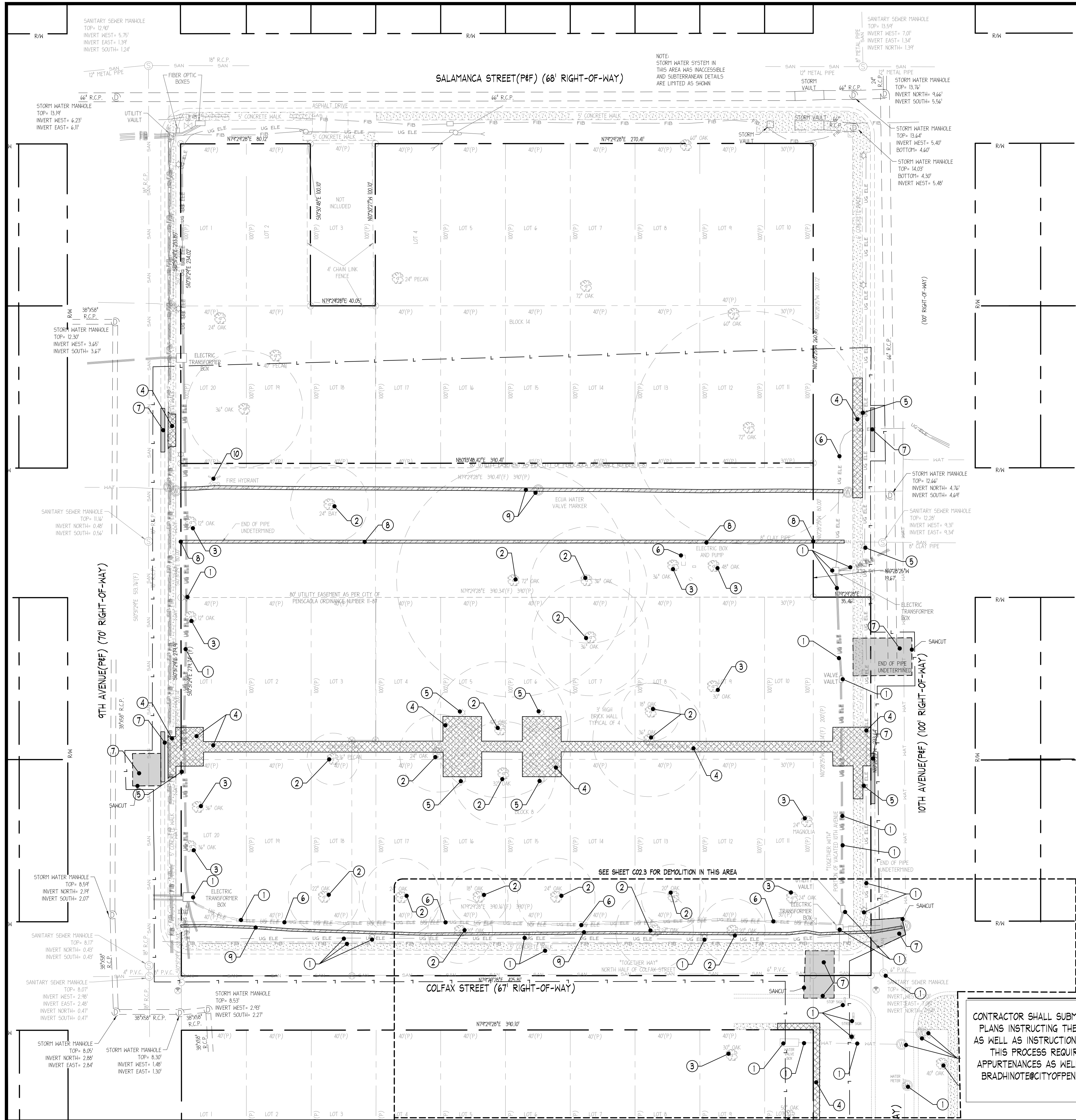
NOT VALID WITHOUT THE ORIGINAL BASED ON THE SCALE OF A FLORIDA SURVEYING AND MAPPER

**MERRILL PARKER SHAW, INC.**  
PROFESSIONAL LAND SURVEYING SERVICES  
6820 N. DAVIS HWY.  
PENSACOLA, FL 32503

DATE: 4/12/17  
CHECKED: EWP  
DRAWN: AES  
FIELD BOOK: 343 PAGE: 41  
JOB NO.: 2814-06

ALTA/NSPS LAND TITLE  
**BOUNDARY AND TOPOGRAPHIC SURVEY**  
OF A PORTION OF SECTION 20, TOWNSHIP-2-SOUTH,  
RANGE-30-WEST, ESCAMBIA COUNTY, FLORIDA.

REQUESTED BY: MITESH PATEL  
PREPARED FOR: SAI LAXMI PRAKASCOOLA, LLC.



- ### DEMOLITION LEGEND
- PROTECT ALL ITEMS DURING ALL PHASES OF CONSTRUCTION (SEE GENERAL DEMOLITION NOTE #1). THE CONTRACTOR SHALL ENSURE THE INTEGRITY OF ALL ITEMS DENOTED TO BE PROTECTED THAT ARE ADJACENT TO ITEMS DENOTED TO BE DEMOLISHED AND WILL SAFELY REPAIR ANY SUCH ITEMS TO THE REQUIRED JURISDICTION STANDARDS.
  - REMOVE TREES WITH STUMP TO BE DISPOSED OF OFF-SITE. CONTRACTOR TO BACKFILL HOLE WITH ACCEPTABLE MATERIAL, COMPACTED TO STANDARDS, AND MATCH EXISTING GRADES TO ALLOW POSITIVE DRAINAGE.
  - TREE SHALL BE SAVED.
  - SAWCUT WALKWAY WHERE INDICATED AND ANY ASSOCIATED APPROXIMANCES INCLUDING BUT NOT LIMITED TO REINFORCEMENT, STONE BASE, AND 3 FEET HIGH BRICK WALLS.
  - LIGHT POLE AND POWER SUPPLY SHALL BE REMOVED BY THE CONTRACTOR.
  - ELECTRIC UTILITY BOXES AND PORTIONS OF ELECTRIC LINES TO BE RELOCATED BY THE CONTRACTOR. REFER TO UTILITY PLAN (C04.0) FOR MORE INFORMATION TO INSTALL UTILITIES.
  - SAWCUT ON CURB AND GUTTER, AND ANY REINFORCEMENT AND STONE BASE AND REPLACE PER DETAIL 5, SEE SHEET C03.7.
  - CONTRACTOR SHALL REMOVE 8" SEWER GRAVITY MAIN LOCATED BETWEEN THE PROPERTY LINES. CONTRACTOR SHALL ABANDON THE REMAINING 8" SEWER GRAVITY MAIN BETWEEN THE MANHOLES IN BOTH 9TH AND 10TH AVENUES AND THE PROPERTY LINES. THEN FLAG AND GROUT FILL THE ABANDON PIPE.
  - CONTRACTOR SHALL REMOVE EXISTING 3" WATER LINE TO LIMITS SHOWN.
  - CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY AND RELOCATE THE FIRE HYDRANT TO THE LOCATION SPECIFIED ON UTILITY PLAN SHEET C04.0.

**ECUA Engineering Manual Reference Note\***  
 \*Note shall be inserted in the upper right corner of title sheet  
 \*applicable only to ECUA infrastructure to be constructed in public ROW or in utility easement; not to be applied to private water/sewer facilities on private property (see Building Code)

**A. ECUA Engineering Manual Incorporated by Reference**  
 The ECUA Engineering Manual, dated December 18, 2014, along with Update # 1 dated September 1, 2016 (hereinafter "Manual"), located at [www.ecua.fl.gov](http://www.ecua.fl.gov), is hereby incorporated by reference into this Project's official contract documents as if fully set forth therein. It is the Contractor's responsibility to be knowledgeable of the Manual's contents and to construct the Project in accordance with the Manual. The Contractor shall provide its employees access to the Manual at all times, via Project site or office, via digital or paper format. In the event of a conflict between the Manual and Plans, Contractor shall consult Engineer of Record for proper resolution.

**B. Additional Documents (to be completed by the Engineer of Record)**  
 Does this Project have additional technical specifications or construction details that supplement and/or supersede the Manual listed above?  YES  NO. If yes, Contractor shall construct Project in accordance with said documents as listed and located below:

Document Name	Document Type		Location	
	Specifi-cation	Detail	Plans	Project Manual*
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\*Project Manuals used only with ECUA CIP Projects

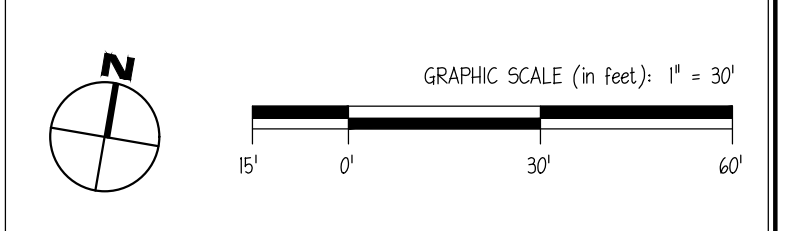
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- ### GENERAL DEMOLITION NOTES
- ALL ITEMS TO BE PROTECTED SHALL BE PROTECTED THROUGH ALL THE PHASES OF CONSTRUCTION UNTIL FINAL ACCEPTANCE BY CITY OF PENSACOLA/ESCAMBIA COUNTY IS RECEIVED.
  - CONTRACTOR TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS WITH ALL DEMOLITION ACTIVITIES. IF ADDITIONAL REQUIREMENTS ARE REQUIRED FOR HAZARDOUS WASTE REMOVAL INCLUDING BUT NOT LIMITED TO ASBESTOS, SEPTIC FIELDS, LEAD, PCB, TOP, OR OTHER WASTE OR CONTAMINANT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH MANDATES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - CONTRACTORS SHALL COORDINATE WITH ALL UTILITY COMPANIES CONCERNING THE ABANDONMENT, RELOCATION AND/OR DEMOLITION OF UTILITIES PRIOR TO CONSTRUCTION. NO WORK IS TO BE PERFORMED ON LIVE LINES UNLESS APPROVED IN WRITING BY THE UTILITY IN ALL CASES. A REPRESENTATIVE FROM THE UTILITY SHALL BE PRESENT FOR INITIAL ABANDONMENT AND/OR LIVE CUTS. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR UTILITIES AND SHALL PROTECT THEM AT ALL TIMES.
  - CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT OF ALL NECESSARY PERMITS.
  - DEMOLITION SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, HAULING, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND/OR PRIVATE UTILITY REQUIRED TO REMOVE AND PROPERLY DISPOSE OF ANY ITEM NECESSARY TO PERFORM THE REQUIRED DEMOLITION AS INDICATED ON THE PLANS.
  - RELOCATION SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, HAULING, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND/OR PRIVATE UTILITY REQUIRED TO REMOVE, RELOCATE, AND INSTALL NEW ITEMS AS INDICATED ON THE PLANS.
  - ABANDONMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND/OR PRIVATE UTILITY REQUIRED TO ADEQUATELY ABANDON ITEMS AS INDICATED ON THE PLANS.
  - THE CONTRACTOR SHALL COORDINATE ALL TREE AND LANDSCAPE REMOVAL WITH THE LANDSCAPE PLANS. ANY DISCREPANCY BETWEEN THIS DEMOLITION PLAN AND THE LANDSCAPE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER IMMEDIATELY.
  - THE CONTRACTOR IS FULLY AND COMPLETELY RESPONSIBLE FOR LOCATION, VERIFICATION, PROTECTION, STORAGE, MAINTENANCE, DEMOLITION, REMOVAL, RELOCATION OR ALTERATION OF ALL EXISTING SITE UTILITIES, SITE IMPROVEMENTS, STRUCTURES, OR CONSTRUCTION ELEMENTS AS REQUIRED TO COMPLETE THE WORK THAT ARE SHOWN ON THE PLANS AND OR THAT ARE OBSERVABLE IN THE FIELD, WHETHER CONSPICUOUSLY VISIBLE OR NOT. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING IMPROVEMENTS, UTILITIES, AND SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
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  - THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR ANY EXISTING UNDERGROUND OR OVERHEAD UTILITIES.
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CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

24-HOUR CONTACT:  
 GREG FOX  
 (404) 754-8842



CONTRACTOR SHALL SUBMIT MOT PLANS AS FOLLOWS: PLEASE PROVIDE DETAILS WITHIN THE PLANS INSTRUCTING THE CONTRACTOR ON HOW TO SET UP THEIR MOT AND DETOUR PLAN AS WELL AS INSTRUCTIONS FOR OBTAINING CITY APPROVAL TO OPEN CUT ADJACENT ROADS. THIS PROCESS REQUIRES SUBMITTAL OF A SKETCH/DRAWING OF THE PROPOSED MOT APPURTENANCES AS WELL AS SCHEDULED START AND FINISH DATE TO BOTH BRAD HINOTE BRADHINOTE@CITYOFFPENSACOLA.COM AND RYAN NOVOTA RNOVOTA@CITYOFFPENSACOLA.COM WITH THE CITY OF PENSACOLA.

PLANNING & ENGINEERING  
 14491 N DALE HENRY HWY  
 SUITE 250  
 TAMPA, FL 33618  
 813.367.0084  
[WWW.INGENIUMENTERPRISES.COM](http://WWW.INGENIUMENTERPRISES.COM)

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JAMES D. NEFF, PE ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

HILTON GARDEN INN  
 EAST SALAMANCA STREET  
 PENSACOLA, FLORIDA

CLIENT:  
 PEACHTREE HOTEL GROUP  
 ONE ALLIANCE CENTER, 3500  
 LENOX ROAD, SUITE 625  
 ATLANTA, GEORGIA 30326  
 PHONE: (404) 497-4111

PLANS FOR:

REVISION HISTORY

NO.	DATE	DESCRIPTION
1	05/17/2024	ISSUE FOR PERMIT/PRICING

THE CIVIL ENGINEER REGULARLY UPDATES ELECTRONIC FILES DURING THE DEVELOPMENT OF A PROJECT AS A RESULT, THE DATA INCLUDED IN ANY CAD FILE OR DRAWING PRIOR TO ITS FINAL RELEASE DOES NOT NECESSARILY REFLECT THE COMPLETE SCOPE OR CONTENT AS DEFINED IN THE CONTRACT. THESE CONTENTS IN THESE FILES MAY THEREFORE BE PRELIMINARY, INCOMPLETE, WORK IN PROGRESS, AND SUBJECT TO CHANGE. FURTHERMORE, THE INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF THE CIVIL ENGINEER. THE ORIGINAL FILE CONTAINED HEREIN IS THE DECISIVE PROPERTY OF THE CIVIL ENGINEER. THE ORIGINAL FILE SHALL NOT BE USED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE CIVIL ENGINEER. THESE PLANS ARE SUBJECT TO FEDERAL COPYRIGHT LAWS, AND USE OF SAME WITHOUT EXPRESSED WRITTEN PERMISSION OF THE CIVIL ENGINEER IS PROHIBITED.

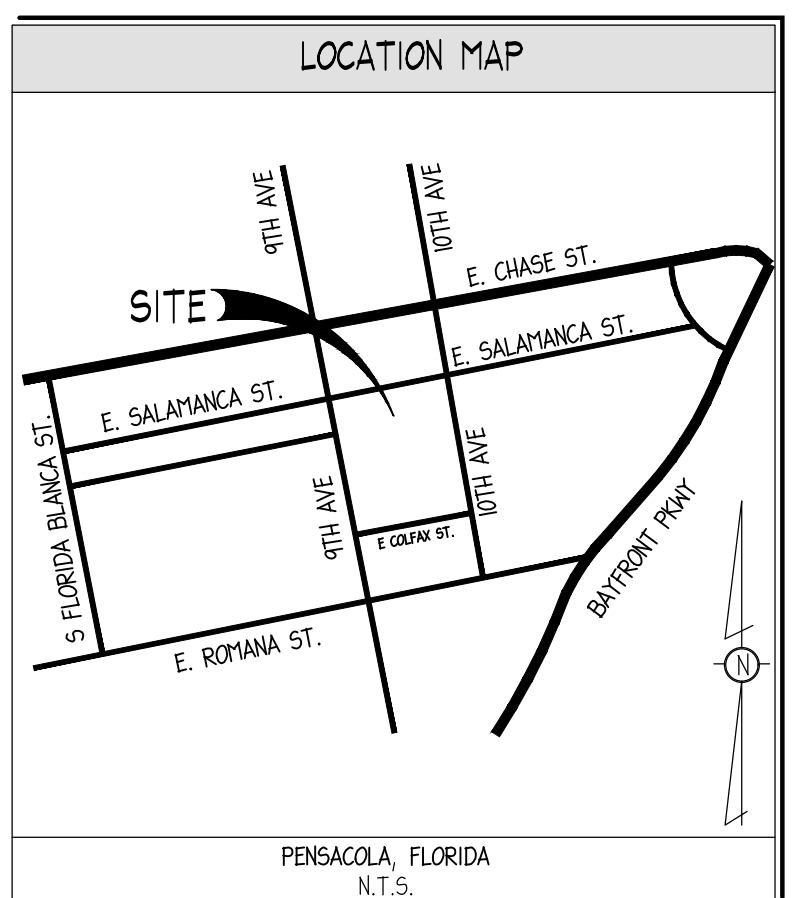
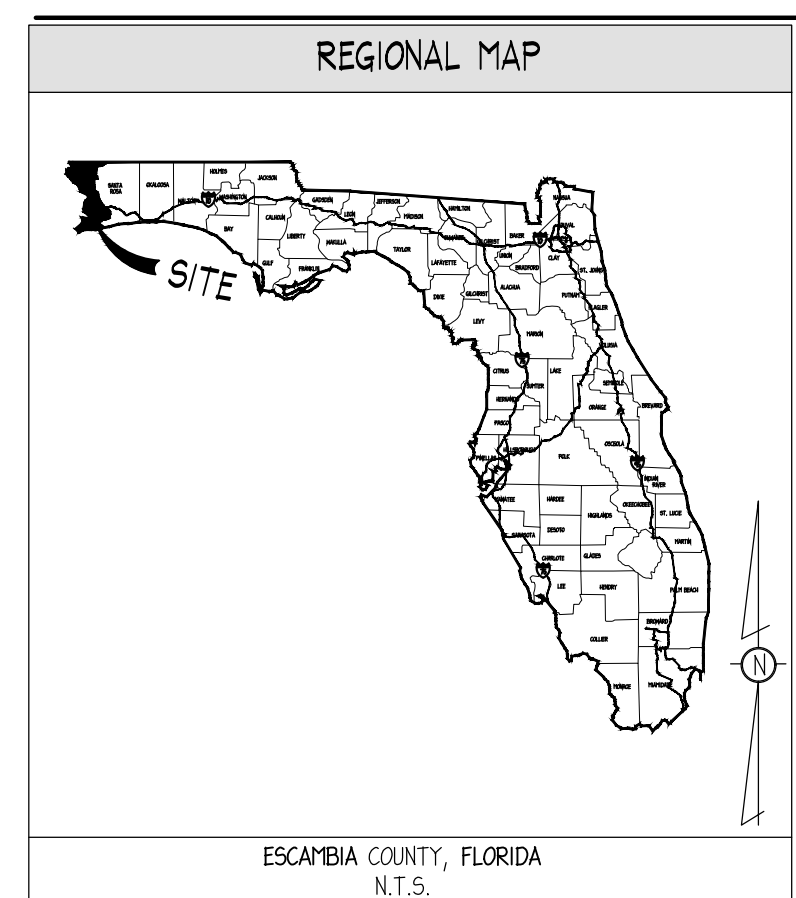
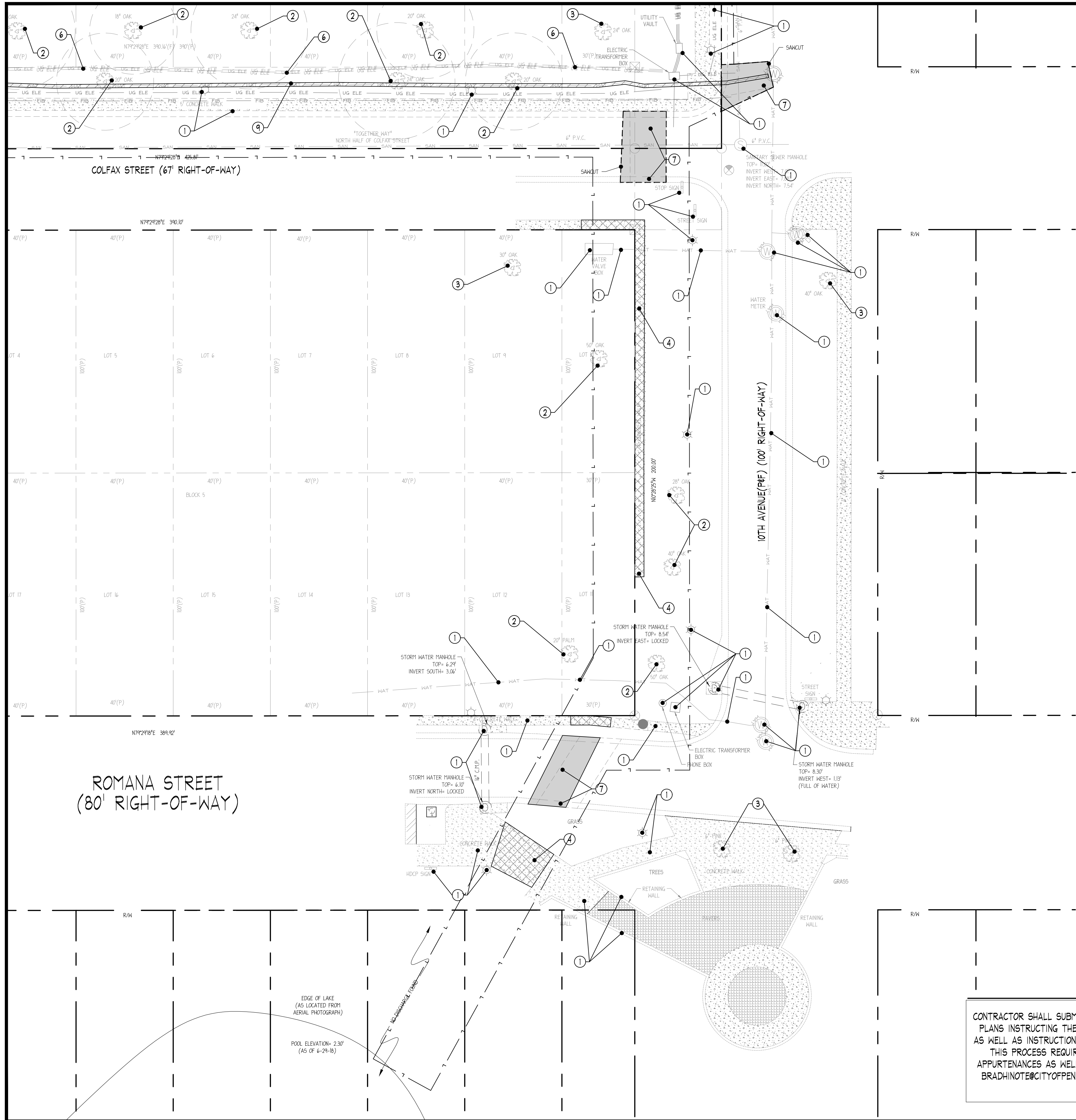
PROJ #	DWG NAME	ISSUE DATE	PROJ TMR
170071	170071 C02.DWG	05/17/2024	31

DEMOLITION PLAN I

C02.2

SHEET NUMBER

ISSUE FOR PERMIT/PRICING



**DEMOLITION LEGEND**

- 1 PROTECT ALL ITEMS DURING ALL PHASES OF CONSTRUCTION (SEE GENERAL DEMOLITION NOTE #1). THE CONTRACTOR SHALL ENSURE THE INTEGRITY OF ALL ITEMS DENOTED TO BE PROTECTED THAT ARE ADJACENT TO ITEMS DEVOTED TO BE DEMOLISHED AND WILL SAFELY REPAIR ANY SUCH ITEMS TO THE REQUIRED JURISDICTIONAL STANDARDS.
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**ECUA Engineering Manual Reference Note\***

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Document Name	Document Type			
	Speci- fication	Detail	Plans	Project Manual*
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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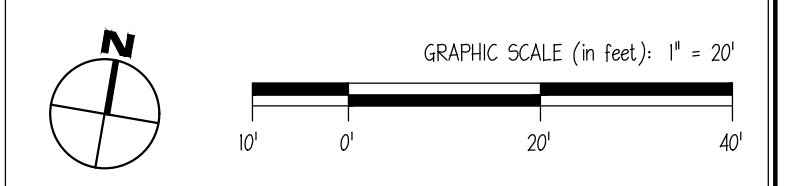
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24-HOUR CONTACT:  
 GREG FOX  
 (404) 754-8842



**ingenium**  
 PLANNING & ENGINEERING

14491 N DALE HENRY HWY  
 SUITE 250  
 TAMPA, FL 33618  
 813.367.0004  
[WWW.INGENIUMTEAM.COM](http://WWW.INGENIUMTEAM.COM)

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JAMES D. NEFF, PE ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

HILTON GARDEN INN  
 EAST SALAMANCA STREET  
 PENSACOLA, FLORIDA

CLIENT:  
**PEACHTREE HOTEL GROUP**  
 ONE ALLIANCE CENTER, 3500  
 LENOX ROAD, SUITE 625  
 ATLANTA, GEORGIA 30326  
 PHONE: (404) 497-4111

REVISION HISTORY

NO.	DATE	DESCRIPTION

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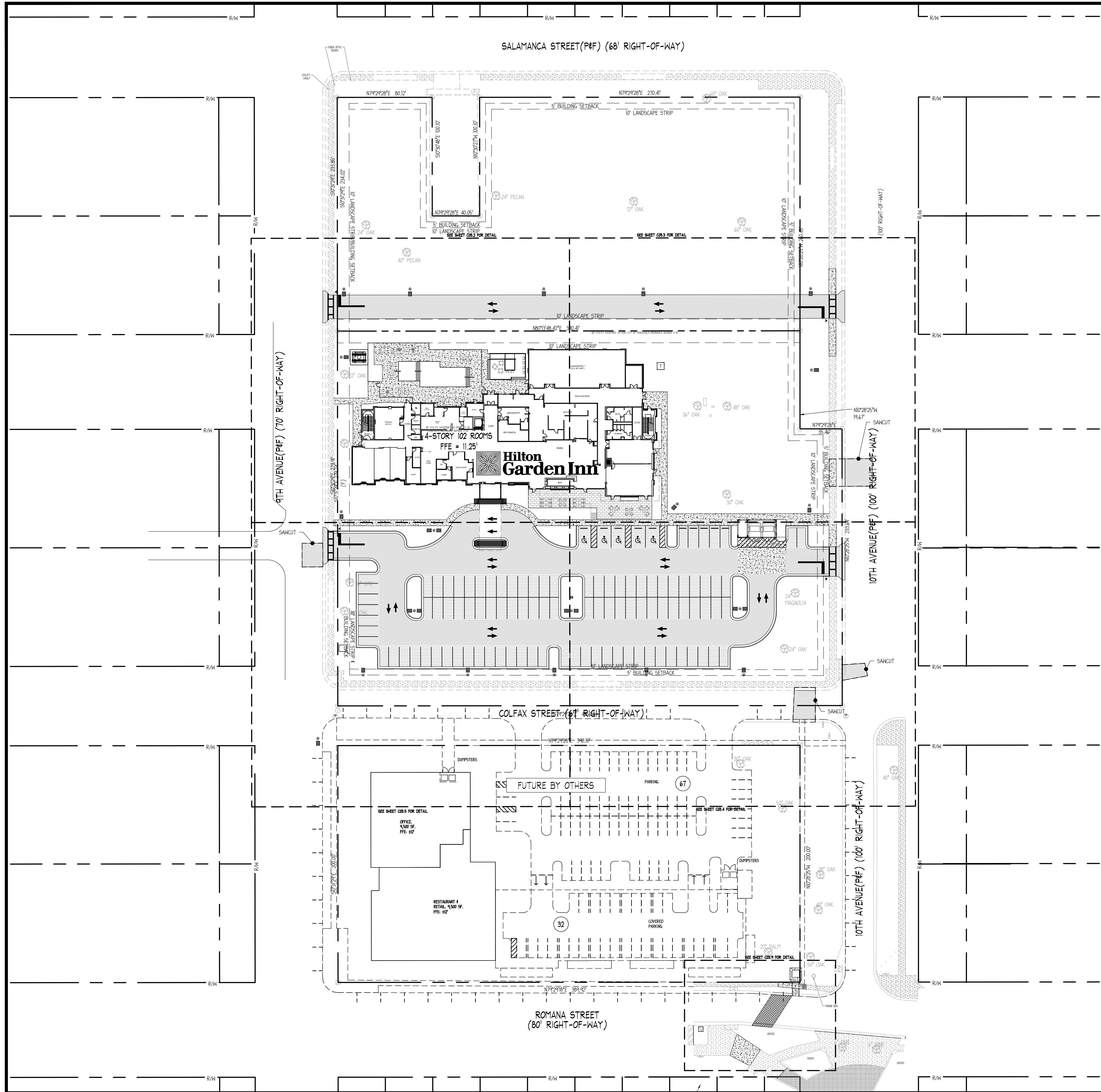
PROJ # 170071  
 DWG NAME 170071 C02.DWG  
 ISSUE DATE 05/17/2014  
 PROJ TMR 31

DEMOLITION PLAN II

C02.3  
 SHEET NUMBER

ISSUE FOR PERMIT/PRICING

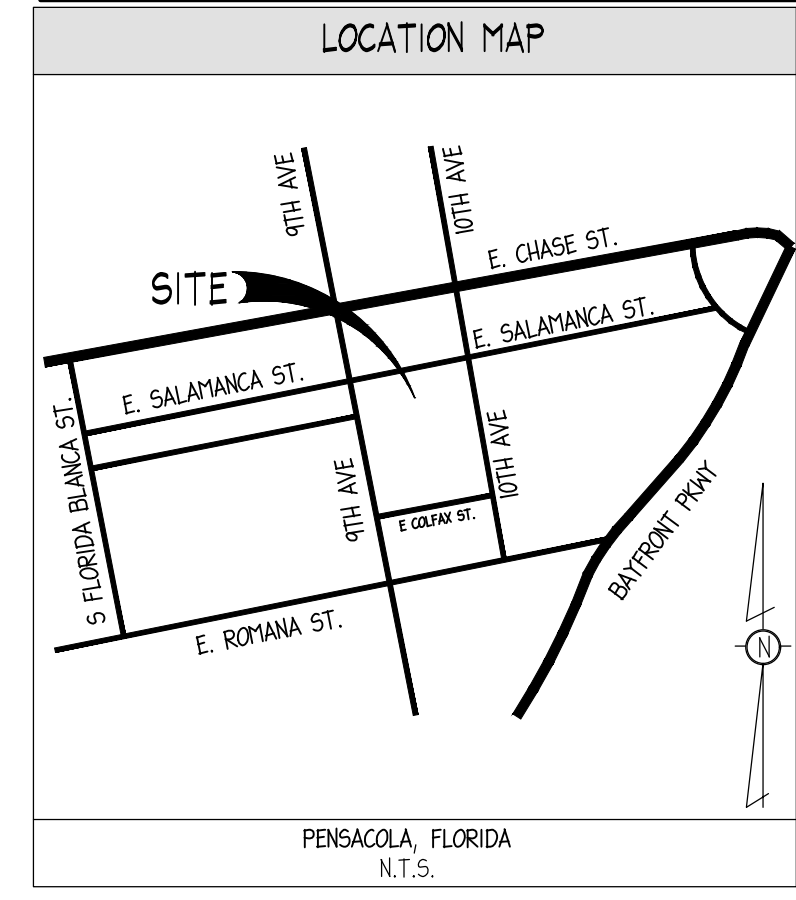




### PAVING LEGEND

- HEAVY DUTY PAVEMENT SECTION: DETAIL 2A/SHEET C03.8
- LIGHT DUTY PAVEMENT SECTION: DETAIL 2B, SHEET C03.8
- CONCRETE SECTIONS: SIDEWALK: DETAIL 8, SHEET C03.7 DUMPSTER APPROACH PAD: DETAIL 1, SHEET C03.8 (TYPE B)

- ### SITE NOTES
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING IMPROVEMENTS, TREES, AND OTHER DEBRIS WITHIN THE LIMITS OF WORK FROM THE SITE. ON SITE BURIAL OF TREES AND OTHER DEBRIS WILL NOT BE ALLOWED. THERE ARE NO KNOWN INERT BURY PITS ON THE SITE AND NONE WILL BE ALLOWED DURING CONSTRUCTION OF THE PROJECT.
  - ALL WORK SHALL COMPLY WITH PENNSACOLA/ESCAMBIA COUNTY, STATE OF FLORIDA, AND FEDERAL CODES AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER.
  - ALL WORK SHALL BE PERFORMED IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
  - ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER PRIOR TO USE.
  - ALL WORK PERFORMED ON CITY, COUNTY, AND/OR STATE OR FEDERAL RIGHT-OF-WAY SHALL BE IN STRICT CONFORMANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE GOVERNING AGENCIES.
  - BASE COURSE MATERIALS, EQUIPMENT, METHODS OF CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO "STATE OF FLORIDA" TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION.
  - ALL BUILDING DIMENSIONS SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - PHOTOMETRICS DESIGNED BY OTHERS. POLE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY FINAL LOCATION OF POLES WITH PHOTOMETRIC PLAN AND OWNER PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL SUBMIT POT PLANS AS FOLLOWS: PLEASE PROVIDE DETAILS WITHIN THE PLANS INSTRUCTING THE CONTRACTOR ON HOW TO SET UP THEIR MOT AND DETOUR PLAN AS WELL AS INSTRUCTIONS FOR OBTAINING CITY APPROVAL TO OPEN OUT ADJACENT ROADS. THIS PROCESS REQUIRES SUBMITTAL OF A SKETCH/DRAWING OF THE PROPOSED POT APPURTENANCES AS WELL AS SCHEDULED START AND FINISH DATE TO BOTH BROAD HURDLE BRADHURD@CITYOFFPENNSACOLA.COM AND RYAN NOVOTA RNOVOTA@CITYOFFPENNSACOLA.COM WITH THE CITY OF PENNSACOLA.
  - SEE SHEET C01 FOR GENERAL NOTES.



### SITE INFORMATION

JURISDICTION: PENNSACOLA, FLORIDA  
ESCAMBIA COUNTY

ZONING: GATEWAY REDEVELOPMENT DISTRICT (GRD)

REQUIRED BUILDING SETBACKS:  
FRONT (NORTH): 5'  
SIDE (EAST): 5'  
SIDE (WEST): 10'  
REAR (SOUTH): 5'

REQUIRED PARKING:  
1 SPACE PER SLEEPING ROOM = 102 SPACES

PROPOSED PARKING:  
9' X 18' (REGULAR) = 100  
12' X 18' (L.C.) = 5  
TOTAL = 105

DRIVE AISLE: 24'

SITE AREA CALCULATIONS:  
SITE: 14.70 AC.  
PERVIOUS AREA: 11.01 AC.  
IMPERVIOUS AREA: 12.02 AC.  
DISTURBED AREA: 13.70 AC.

FLOOD HAZARD:  
NO PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER F.I.R.M. MAP NO. 12035C0290G, DATED 04/24/2006.

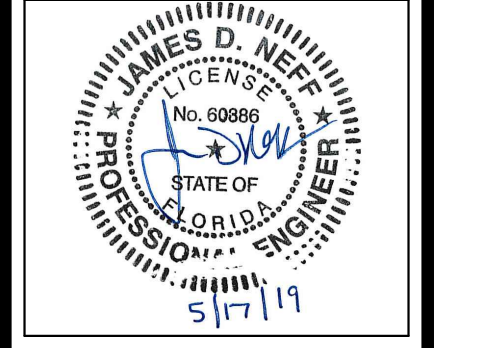
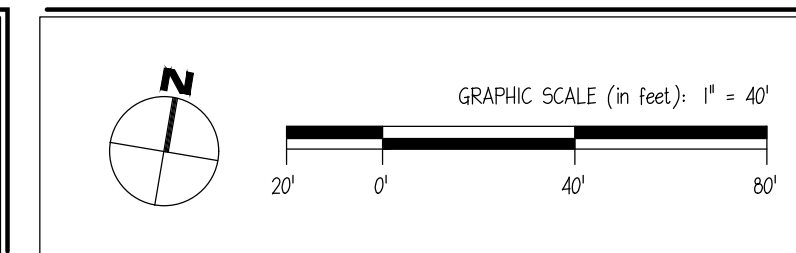
EXISTING INFORMATION:  
PROVIDED BY MERRILL PARKER SHAW, INC., DATED 12/04/2008 (SEE SHEET C02.0 & C02.1).

ALL CURB AND GUTTER, SIDEWALK, AND HANDICAP RAMPS SHALL BE A MINIMUM OF 3,000 PSI CONCRETE AT 28 DAYS WITH FIBERMESH.

CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

24-HOUR CONTACT:  
GREG FOX  
(404) 754-8842



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JAMES D. NEFF, PE ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

HILTON GARDEN INN  
EAST SALAMANCA STREET  
PENNSACOLA, FLORIDA

CLIENT:  
PEACHTREE HOTEL GROUP  
ONE ALLIANCE CENTER, 3500 LENOX ROAD, SUITE 625 ATLANTA, GEORGIA 30326 PHONE: (404) 497-4111

REVISION HISTORY

NO.	DESCRIPTION	DATE
1	ISSUE FOR PERMIT/PRICING	05/17/2014

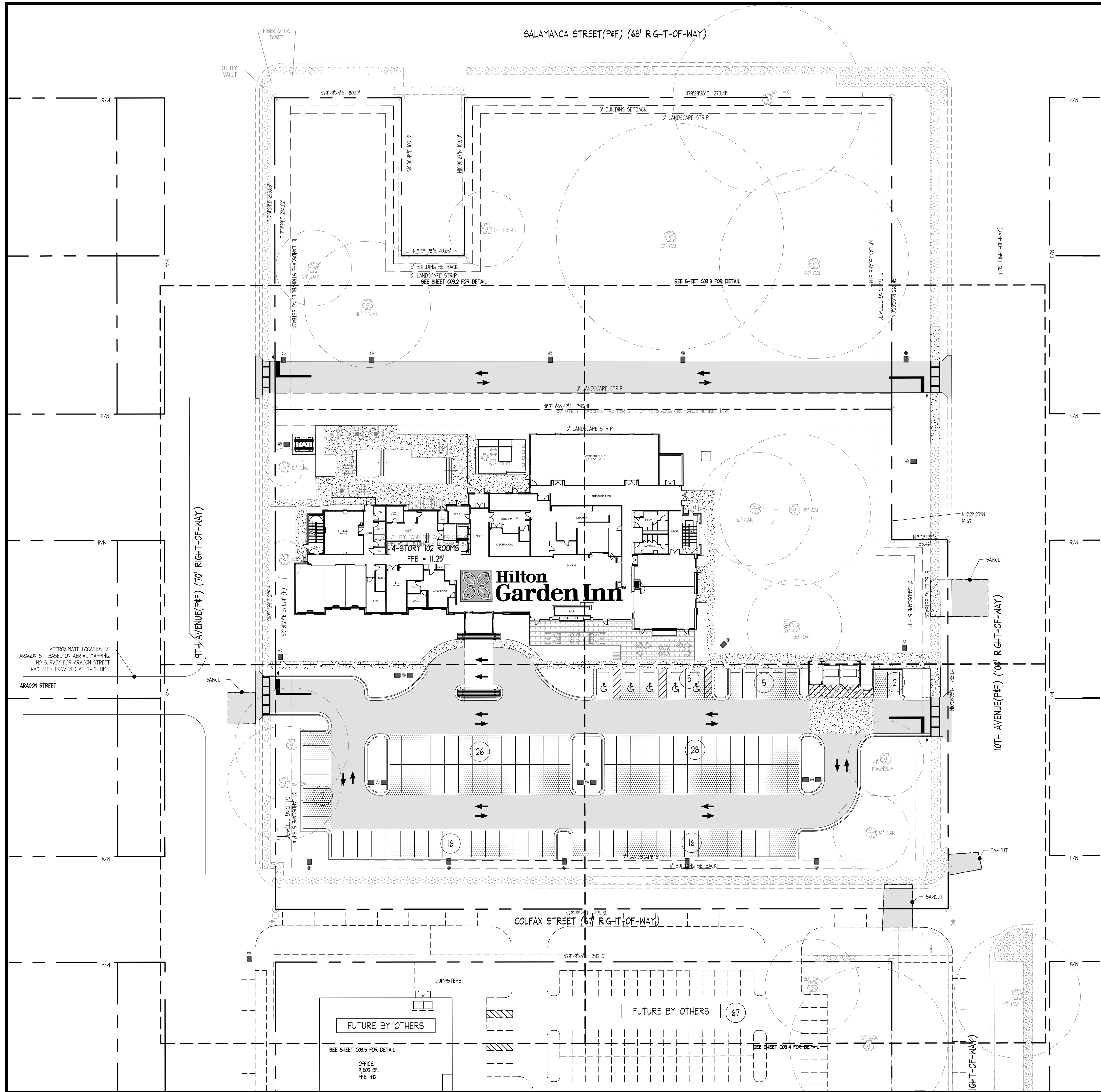
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PROJ. # 170071  
DWG. NAME 170071 C03.DWG  
ISSUE DATE 05/17/2014  
PROJ. TDR# 31

OVERALL SITE PLAN

C03.0  
SHEET NUMBER

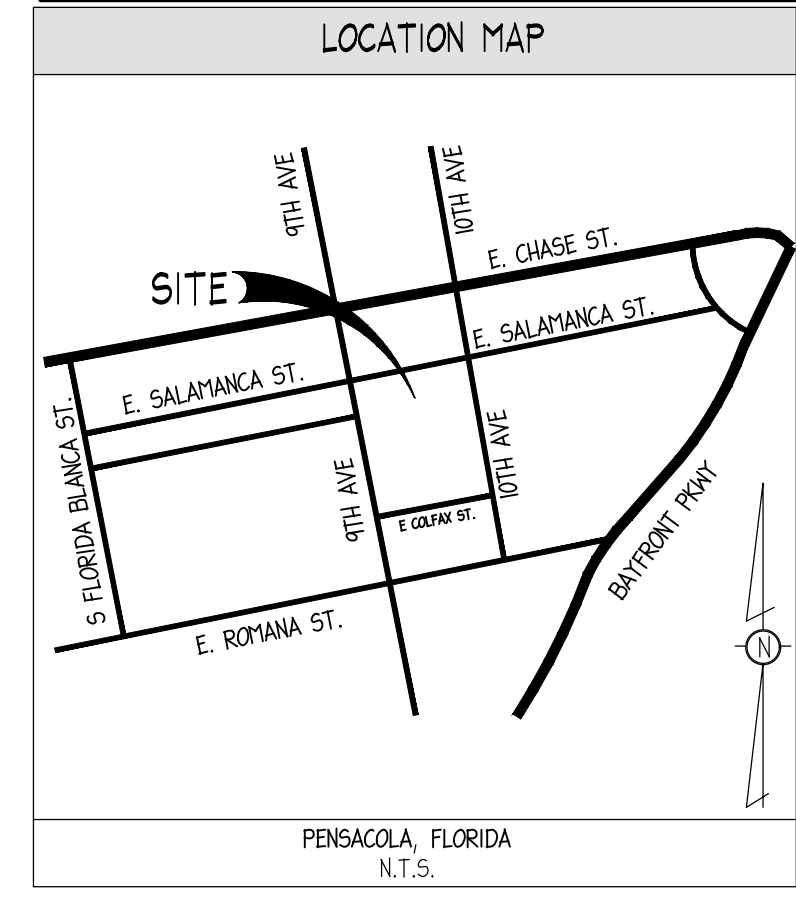
ISSUE FOR PERMIT/PRICING



### PAVING LEGEND

- HEAVY DUTY PAVEMENT SECTION: DETAIL 2A/SHEET C03.8
- LIGHT DUTY PAVEMENT SECTION: DETAIL 2B, SHEET C03.8
- CONCRETE SECTIONS: SIDEWALK: DETAIL 8, SHEET C03.7 DUMPSTER APPROACH PAD: DETAIL 1, SHEET C03.8 (TYPE B)

- ### SITE NOTES
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING IMPROVEMENTS, TREES, AND OTHER DEBRIS WITHIN THE LIMITS OF WORK FROM THE SITE. ON SITE BURIAL OF TREES AND OTHER DEBRIS WILL NOT BE ALLOWED. THERE ARE NO KNOWN INERT BURY PITS ON THE SITE AND NONE WILL BE ALLOWED DURING CONSTRUCTION OF THE PROJECT.
  - ALL WORK SHALL COMPLY WITH PENNSACOLA/ESCAMBIA COUNTY, STATE OF FLORIDA, AND FEDERAL CODES AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER.
  - ALL WORK SHALL BE PERFORMED IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
  - ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER PRIOR TO USE.
  - ALL WORK PERFORMED ON CITY, COUNTY, AND/OR STATE OR FEDERAL RIGHT-OF-WAY SHALL BE IN STRICT CONFORMANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE GOVERNING AGENCIES.
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  - SEE SHEET C01 FOR GENERAL NOTES.



### SITE INFORMATION

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ESCAMBIA COUNTY

ZONING: GATEWAY REDEVELOPMENT DISTRICT (GRD)

REQUIRED BUILDING SETBACKS:  
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SIDE (WEST): 10'  
REAR (SOUTH): 5'

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1 SPACE PER SLEEPING ROOM = 102 SPACES

PROPOSED PARKING:  
9' X 18' (REGULAR) = 100  
12' X 18' (LSC) = 5  
TOTAL = 105

DRIVE AISLE: 24'

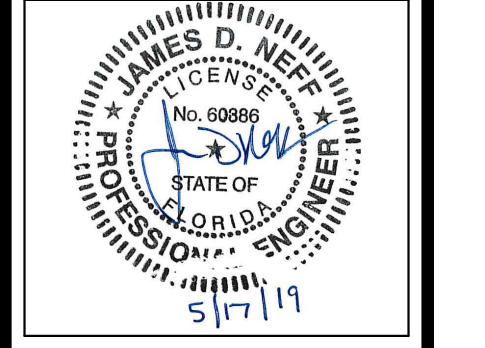
SITE AREA CALCULATIONS:  
SITE: 14.70 AC.  
PERVIOUS AREA: 11.01 AC.  
IMPERVIOUS AREA: 12.02 AC.  
DISTURBED AREA: 13.70 AC.

FLOOD HAZARD:  
NO PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER F.I.R.M. MAP NO. 12050C0290G, DATED 04/24/2006.

EXISTING INFORMATION:  
PROVIDED BY MERRILL PARKER SHAW, INC., DATED 12/04/2008 (SEE SHEET C02.1 & C02.1).



14491 N DALE HENRY HWY  
SUITE 250  
TAMPA, FL 33618  
813.367.0004  
INGENIUMENTERPRISES.COM



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HILTON GARDEN INN  
EAST SALAMANCA STREET  
PENSACOLA, FLORIDA

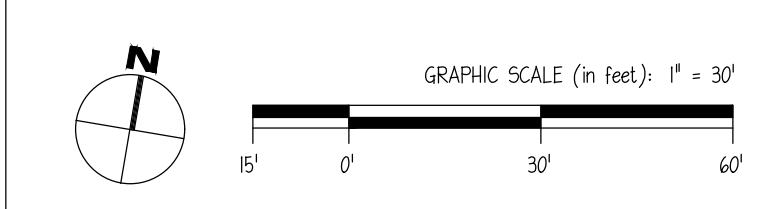


CLIENT:  
PEACHTREE HOTEL GROUP  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

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24-HOUR CONTACT:  
GREG FOX  
(404) 754-8842



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### REVISION HISTORY

NO.	DATE	DESCRIPTION
1	05/17/2014	ISSUE FOR PERMIT/PRICING

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PROJ. #	170071
DWG. NAME	170071 C03.DWG
ISSUE DATE	05/17/2014
PROJ. TDR	31

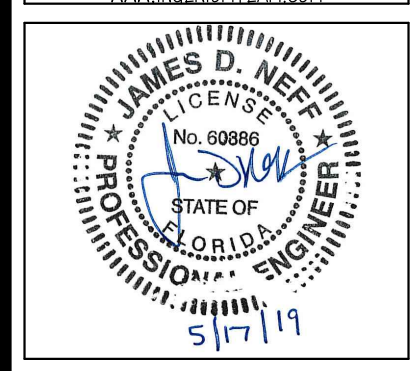
SITE PLAN  
C03.1  
SHEET NUMBER

ISSUE FOR PERMIT/PRICING



ingenium  
PLANNING & ENGINEERS

1449 N DALE HENRY HWY  
SUITE 250  
TAMPA, FL 33618  
813.367.0084  
INGENIUM@INGENIUMTEAM.COM



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HILTON GARDEN INN  
EAST SALAMANCA STREET  
PENSACOLA, FLORIDA



CLIENT:  
PEACHTREE HOTEL  
GROUP  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

REVISION HISTORY

NO.	DESCRIPTION	DATE
1	ISSUE FOR PERMIT/PRICING	05/17/2019

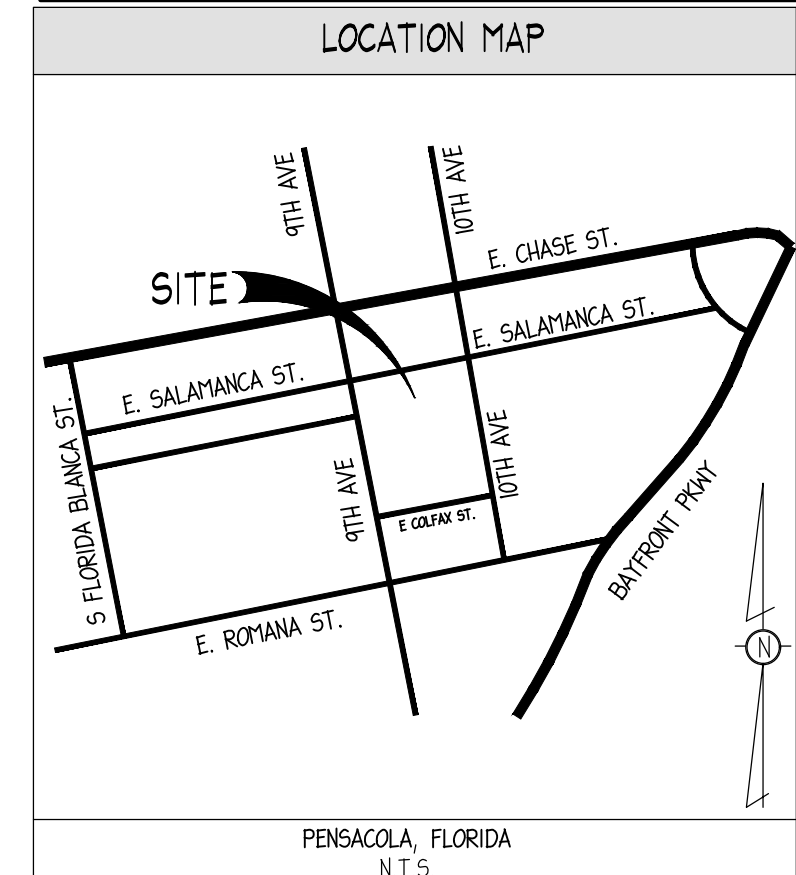
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PROJ. # 170071  
DWG. NAME 170071 C03.DWG  
ISSUE DATE 05/17/2019  
PROJ. TDR: JBT

BUILDING AREA  
DETAIL 1

C03.2  
SHEET NUMBER

ISSUE FOR PERMIT/PRICING



SITE INFORMATION

JURISDICTION: PENSACOLA, FLORIDA  
ESCAMBA COUNTY

ZONING: GATEWAY REDEVELOPMENT DISTRICT (GRD)

REQUIRED BUILDING SETBACKS:  
FRONT (NORTH): 5'  
SIDE (EAST): 5'  
SIDE (WEST): 10'  
REAR (SOUTH): 5'

REQUIRED PARKING:  
1 SPACE PER SLEEPING ROOM = 102 SPACES

PROPOSED PARKING:  
9' X 18' (REGULAR) = 100  
12' X 18' (L.S.) = 5  
TOTAL = 105

DRIVE AISLE: 24'

SITE AREA CALCULATIONS:  
SITE = 14.70 AC.  
PERVIOUS AREA = 11.00 AC.  
IMPERVIOUS AREA = 2.02 AC.  
DISTURBED AREA = 13.70 AC.

FLOOD HAZARD:  
NO PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER  
F.I.R.M. MAP NO. 12035C0290G, DATED 09/29/2006.

EXISTING INFORMATION:  
PROVIDED BY MERRILL PARKER SHAW, INC., DATED 12/06/2008 (SEE SHEET C02.4  
C02.1).

BUILDING AREA NOTES

- MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS  
UNDER CONSTRUCTION. I.E. IN TIMES OF RAIN OR MUD, ROADS SHALL BE  
PASSABLE TO EMERGENCY VEHICLES BY BEING PAVED OR HAVING A CRUSHED  
STONE BASE ETC., WITH A MINIMUM WIDTH OF 20 FEET. THE ACCESS TO  
BUILDINGS HAVING SPRINKLER OR STANDPIPE SYSTEMS SHALL BE TO WITHIN  
40 FEET OF THE FIRE DEPARTMENT CONNECTION (NFPA 14B 3-1).
- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL  
AREAS AROUND BUILDING. INSTALL FRENCH DRAIN IN LANDSCAPED AREAS  
ADJACENT TO BUILDING AND CONNECT TO DRAINAGE SYSTEM.
- SEE SHEET C01 FOR GENERAL NOTES.

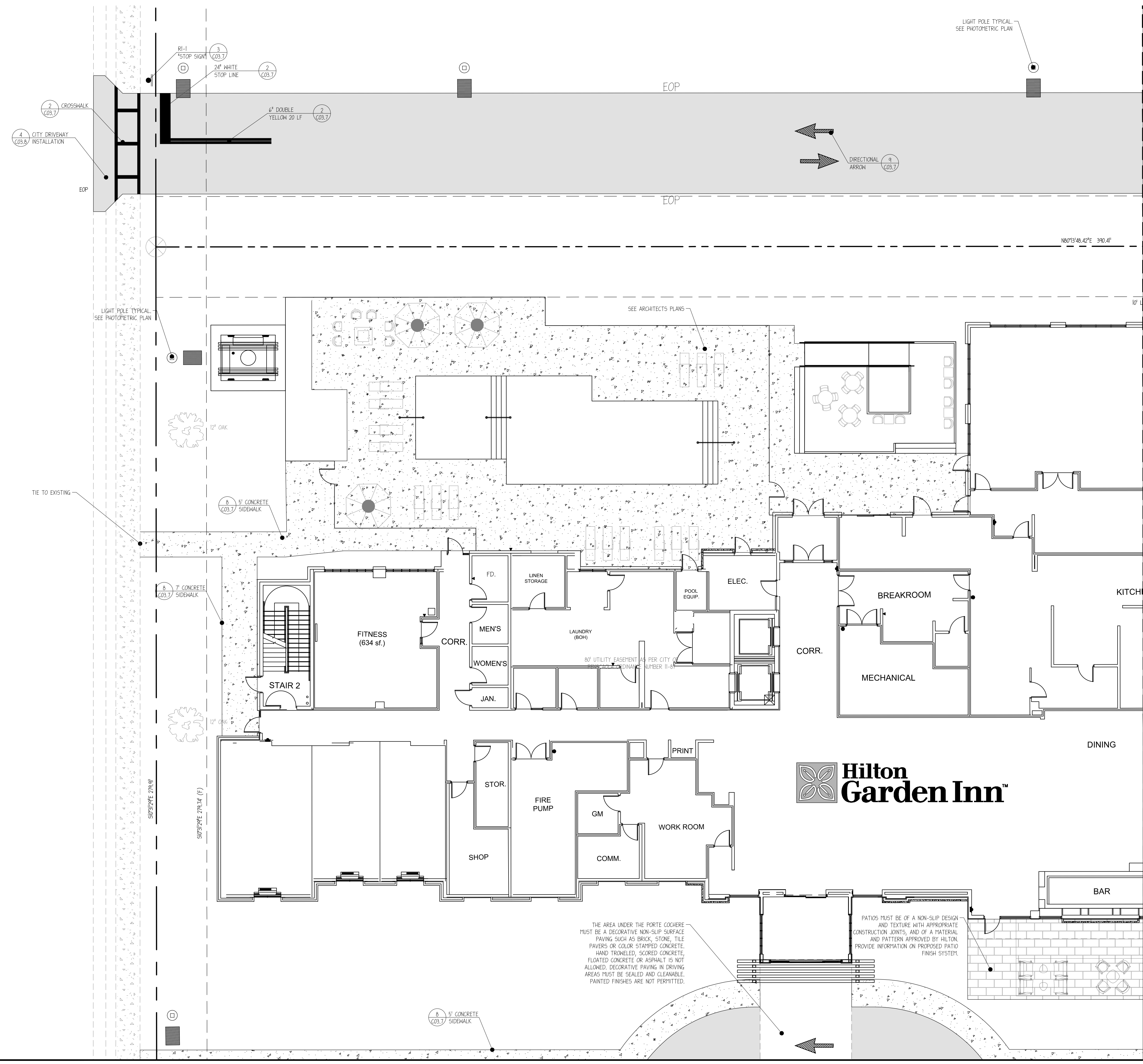
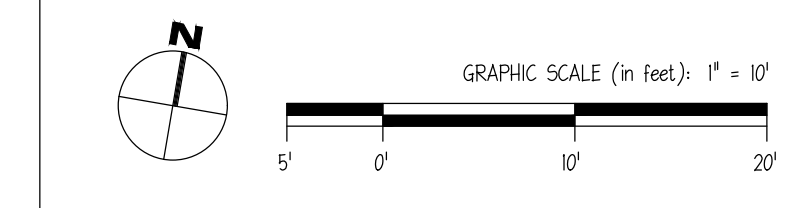
PAVING LEGEND

- HEAVY DUTY PAVEMENT SECTION:  
DETAIL 2A/SHEET C03.8
- LIGHT DUTY PAVEMENT SECTION:  
DETAIL 2B, SHEET C03.8
- CONCRETE SECTIONS:  
SIDEWALK: DETAIL 8, SHEET C03.7  
DUMPSTER APPROACH PAD: DETAIL 1, SHEET  
C03.8 (TYPE B)

CONTRACTOR SHALL PROTECT ALL ITEMS  
OUTSIDE LIMITS OF CONSTRUCTION UNLESS  
OTHERWISE NOTED IN THE CONSTRUCTION  
PLANS OR SPECIFICATIONS.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING  
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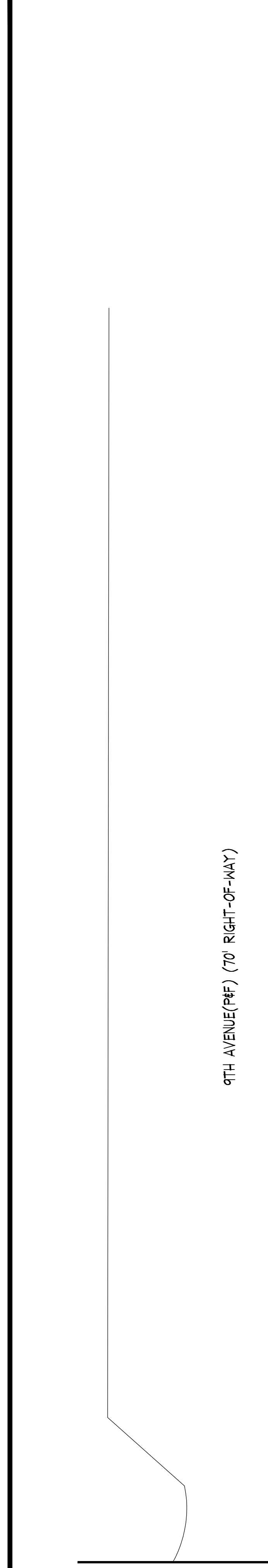
24-HOUR CONTACT:  
GREG FOX  
(404) 754-8842



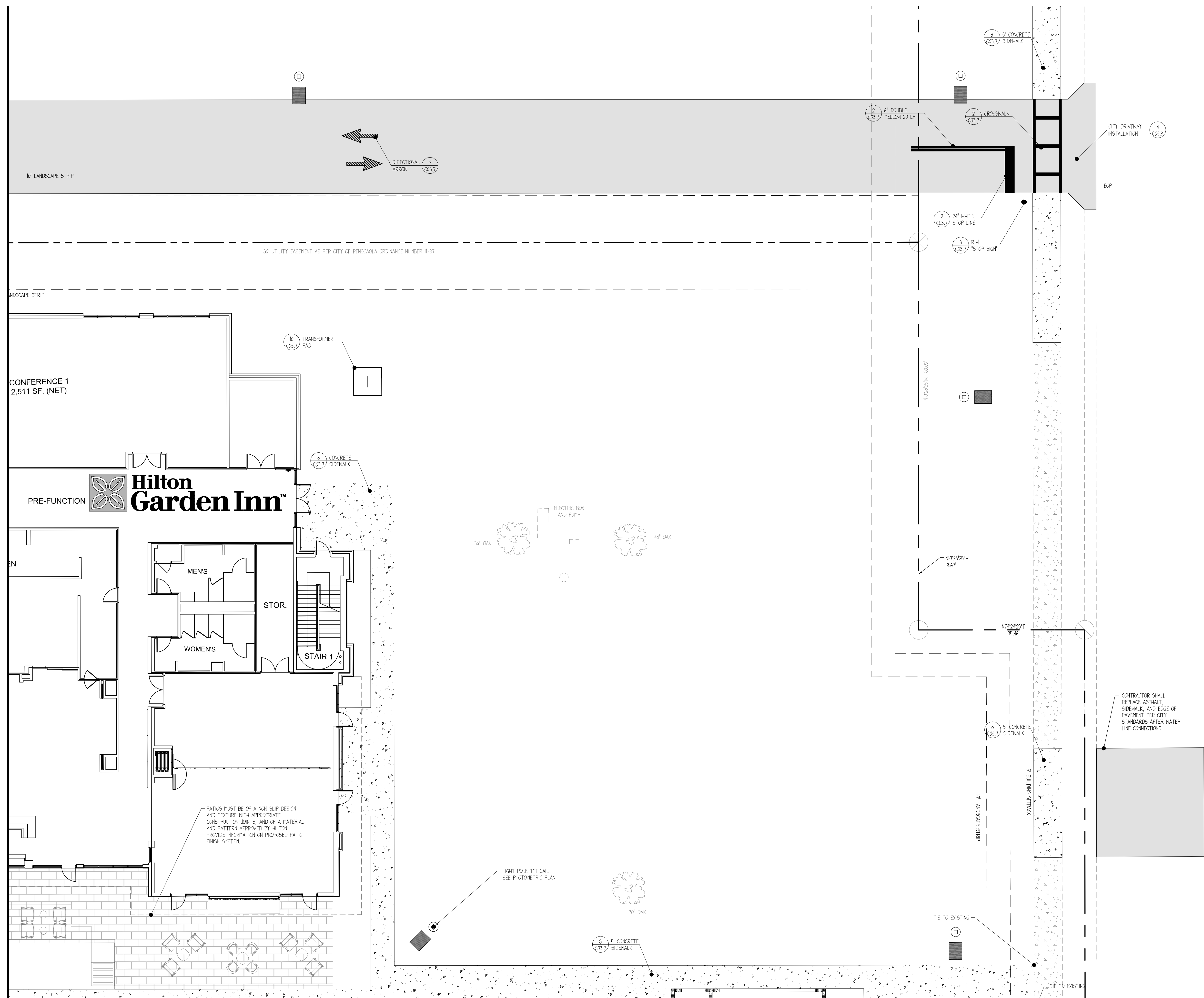
MATCHLINE - SEE SHEET C03.3

MATCHLINE - SEE SHEET C03.5

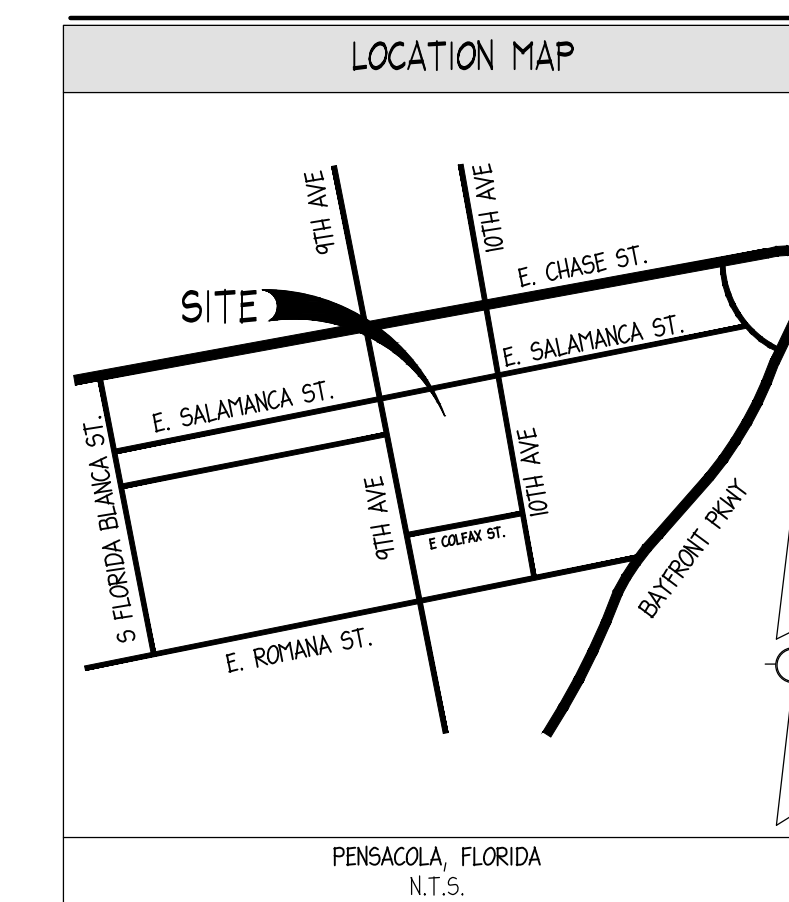
9TH AVENUE (P&F) (70' RIGHT-OF-WAY)



MATCHLINE - SEE SHEET C03.2



MATCHLINE - SEE SHEET C03.4



**SITE INFORMATION**

JURISDICTION: PENSACOLA, FLORIDA  
 ESCAMBA COUNTY

ZONING: GATEWAY REDEVELOPMENT DISTRICT (GRD)

REQUIRED BUILDING SETBACKS:  
 FRONT (NORTH): 5'  
 SIDE (EAST): 5'  
 SIDE (WEST): 10'  
 REAR (SOUTH): 5'

REQUIRED PARKING:  
 1 SPACE PER SLEEPING ROOM = 102 SPACES

PROPOSED PARKING:  
 9' X 18' (REGULAR) = 100  
 12' X 18' (LSC) = 5  
 TOTAL = 105

DRIVE AISLE: 24'

SITE AREA CALCULATIONS:  
 SITE: 14.70 AC.  
 PERVIOUS AREA: 11.00 AC.  
 IMPERVIOUS AREA: 12.02 AC.  
 DISTURBED AREA: 13.70 AC.

FLOOD HAZARD:  
 NO PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER F.I.R.M. MAP NO. 12035C02940G, DATED 04/24/2006.

EXISTING INFORMATION:  
 PROVIDED BY MERRILL PARKER SHAW, INC., DATED 12/04/2008 (SEE SHEET C02.0 4 C02.1).

**BUILDING AREA NOTES**

1. MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION. I.E. IN TIMES OF RAIN OR MUD, ROADS SHALL BE PASSABLE TO EMERGENCY VEHICLES BY BEING PAVED OR HAVING A CRUSHED STONE BASE ETC., WITH A MINIMUM WIDTH OF 20 FEET. THE ACCESS TO BUILDINGS HAVING SPRINKLER OR STANDPIPE SYSTEMS SHALL BE TO WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTION (NFPA 1403-1).
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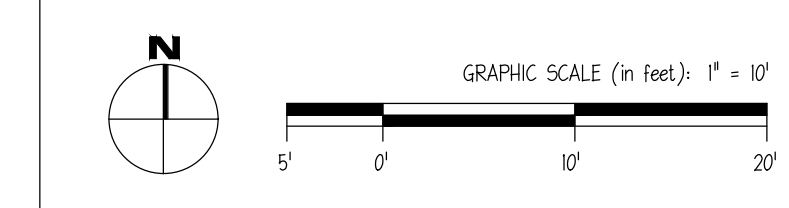
**PAVING LEGEND**

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- LIGHT DUTY PAVEMENT SECTION: DETAIL 2B, SHEET C03.8
- CONCRETE SECTIONS:  
 SIDEWALK: DETAIL 8, SHEET C03.7  
 DUMPSTER APPROACH PAD: DETAIL 1, SHEET C03.8 (TYPE B)

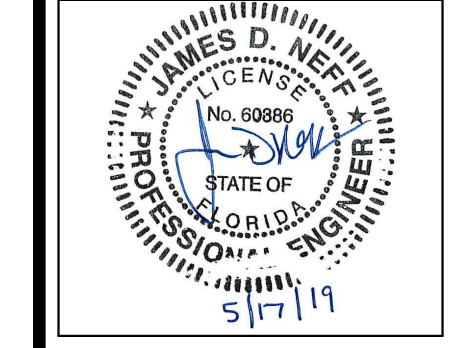
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**ingenium**  
 ENTERPRISES  
 PLANNING & ENGINEERING  
 1449 N DALE HENRY HWY  
 SUITE 250  
 TAMPA, FL 33618  
 813.367.0084



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HILTON GARDEN INN  
 EAST SALAMANCA STREET  
 PENSACOLA, FLORIDA



CLIENT:  
 PEACHTREE HOTEL GROUP  
 ONE ALLIANCE CENTER, 3500  
 LENOX ROAD, SUITE 625  
 ATLANTA, GEORGIA 30326  
 PHONE: (404) 497-4111

REVISION HISTORY	
1	ISSUE FOR PERMIT/PRICING

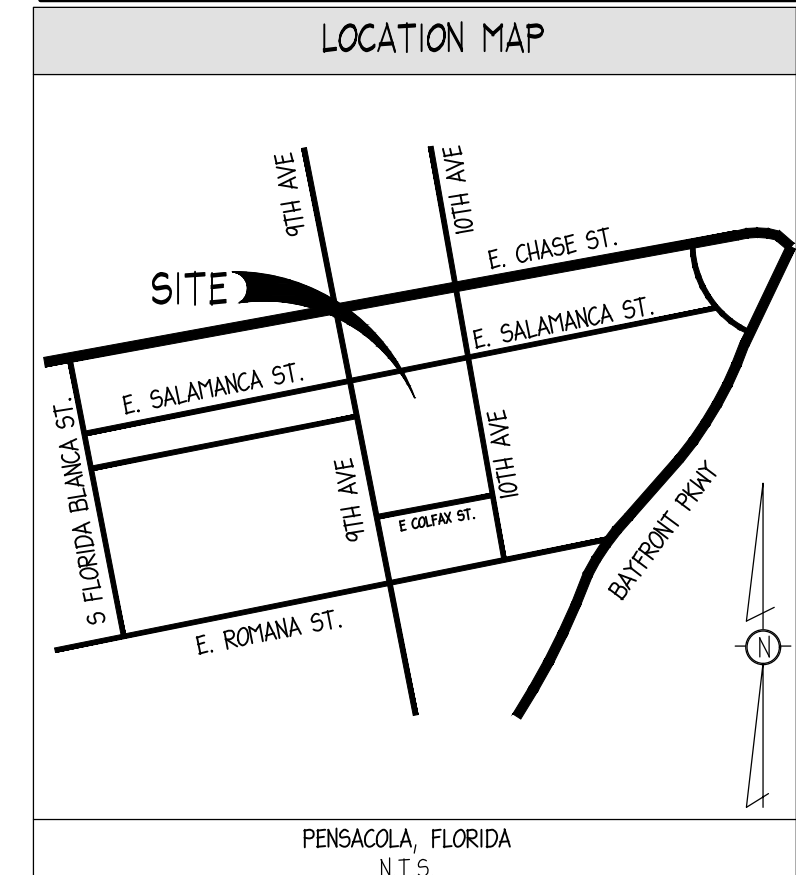
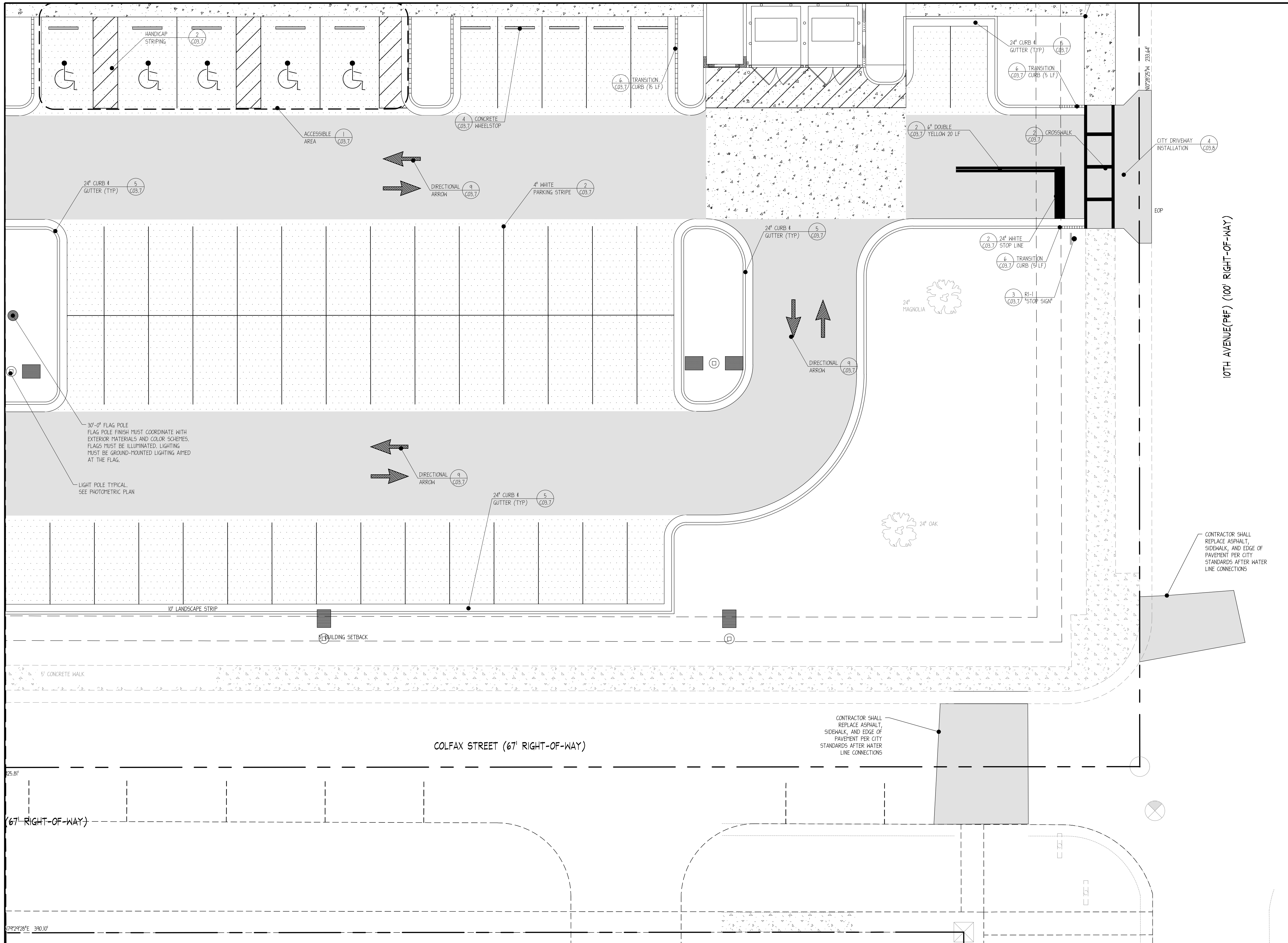
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PROJ # 170071  
 DWG NAME 170071 C03.DWG  
 ISSUE DATE 05/17/2014  
 PROJ TDR: JY

BUILDING AREA  
 DETAIL II  
 C03.3  
 SHEET NUMBER

ISSUE FOR PERMIT/PRICING

MATCHLINE - SEE SHEET C03.3



**SITE INFORMATION**

JURISDICTION: PENSACOLA, FLORIDA  
 ESCAMBA COUNTY

ZONING: GATEWAY REDEVELOPMENT DISTRICT (GRD)

REQUIRED BUILDING SETBACKS:  
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 SIDE (WEST): 10'  
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 PERVIOUS AREA: 11.01 AC.  
 IMPERVIOUS AREA: 12.02 AC.  
 DISTURBED AREA: 13.70 AC.

FLOOD HAZARD:  
 NO PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER F.I.R.M. MAP NO. 12035C0290G, DATED 04/24/2006.

EXISTING INFORMATION:  
 PROVIDED BY MERRILL PARKER SHAW, INC., DATED 12/04/2008 (SEE SHEET C02.4 & C02.1).

**BUILDING AREA NOTES**

- MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION, I.E. IN TIMES OF RAIN OR MUD, ROADS SHALL BE PASSABLE TO EMERGENCY VEHICLES BY BEING PAVED OR HAVING A CRUSHED STONE BASE ETC., WITH A MINIMUM WIDTH OF 20 FEET. THE ACCESS TO BUILDINGS HAVING SPRINKLER OR STANDPIPE SYSTEMS SHALL BE TO WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTION (NFPA 104.3-1).
- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS AROUND BUILDING. INSTALL FRENCH DRAIN IN LANDSCAPED AREAS ADJACENT TO BUILDING AND CONNECT TO DRAINAGE SYSTEM.
- SEE SHEET C01J FOR GENERAL NOTES.

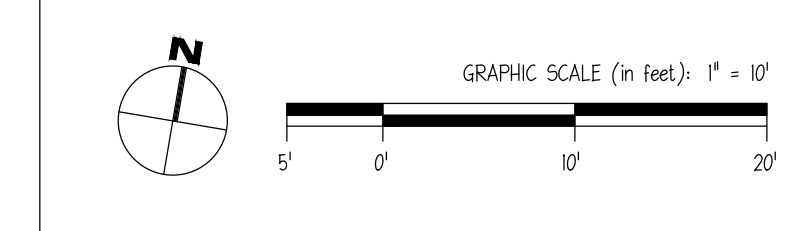
**PAVING LEGEND**

- HEAVY DUTY PAVEMENT SECTION: DETAIL 2A/SHEET C03.8
- LIGHT DUTY PAVEMENT SECTION: DETAIL 2B, SHEET C03.8
- CONCRETE SECTIONS:  
 SIDEWALK: DETAIL B, SHEET C03.7  
 DUMPSTER APPROACH PAD: DETAIL 1, SHEET C03.8 (TYPE B)

CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

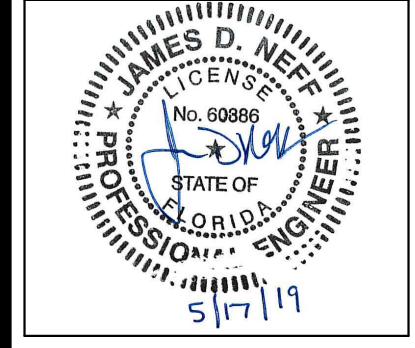
24-HOUR CONTACT:  
 GREG FOX  
 (404) 754-8842



MATCHLINE - SEE SHEET C03.5



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 EAST SALAMANCA STREET  
 PENSACOLA, FLORIDA



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 ONE ALLIANCE CENTER, 3500  
 LENOX ROAD, SUITE 625  
 ATLANTA, GEORGIA 30326  
 PHONE: (404) 497-4111

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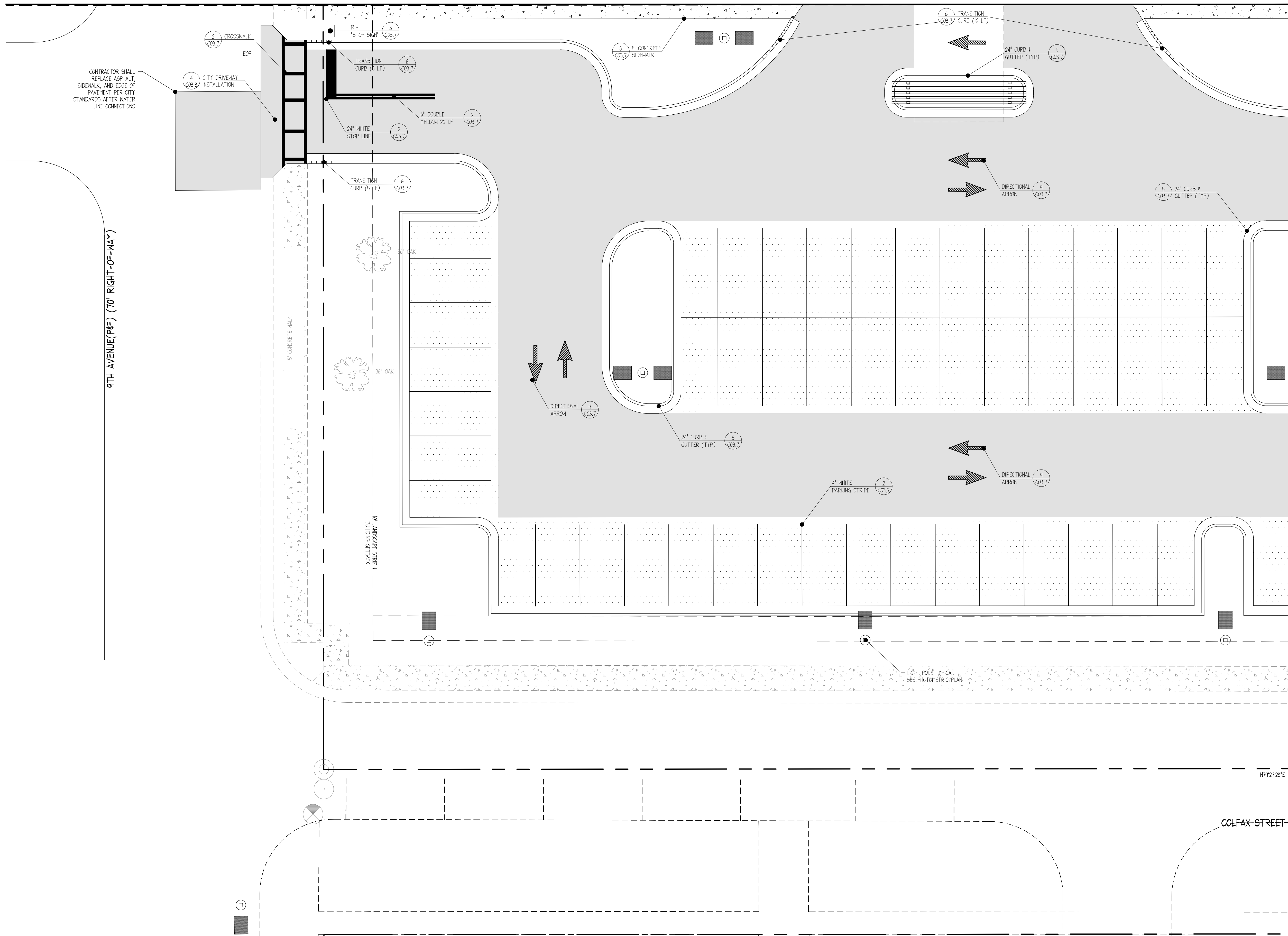
PROJ # 170071  
 DWG NAME 170071 C03.DWG  
 ISSUE DATE 05/17/2014  
 PROJ TDR# 31

**BUILDING AREA**  
 DETAIL III

C03.4  
 SHEET NUMBER

ISSUE FOR PERMIT/PRICING

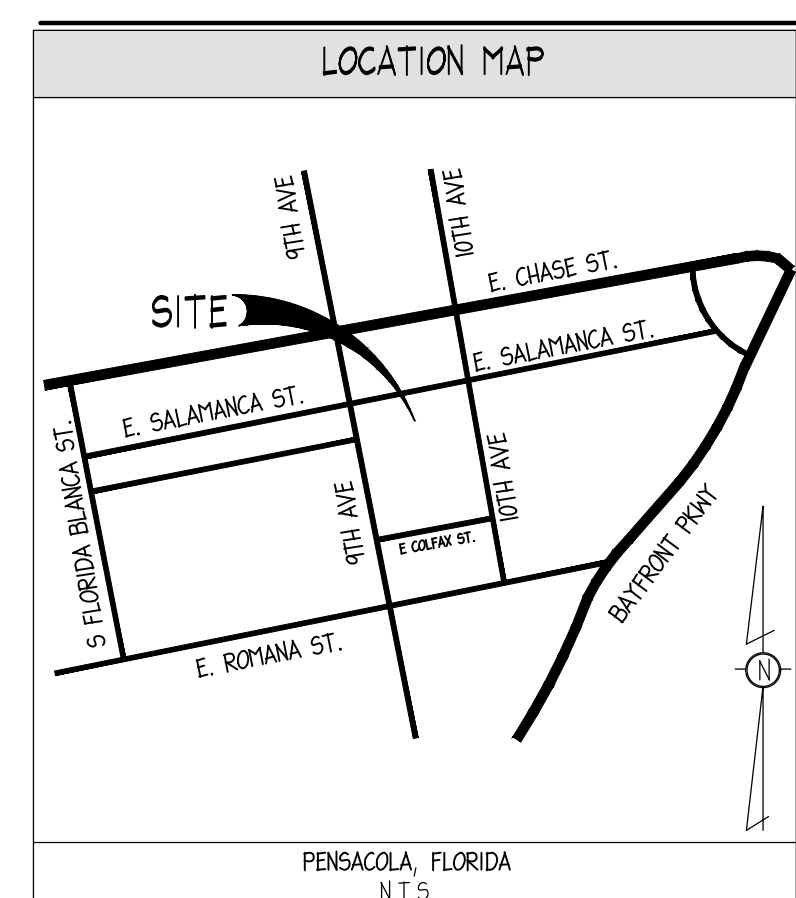
MATCHLINE - SEE SHEET C03.2



CONTRACTOR SHALL REPLACE ASPHALT, SIDEWALK, AND EDGE OF PAVEMENT PER CITY STANDARDS AFTER WATER LINE CONNECTIONS

9TH AVENUE (PAF) (70' RIGHT-OF-WAY)

MATCHLINE - SEE SHEET C03.4



**SITE INFORMATION**

JURISDICTION: PENSACOLA, FLORIDA  
ESCAMBA COUNTY

ZONING: GATEWAY REDEVELOPMENT DISTRICT (GRD)

REQUIRED BUILDING SETBACKS:  
 FRONT (NORTH): 5'  
 SIDE (EAST): 5'  
 SIDE (WEST): 10'  
 REAR (SOUTH): 5'

REQUIRED PARKING:  
 1 SPACE PER SLEEPING ROOM = 102 SPACES

PROPOSED PARKING:  
 9' X 18' (REGULAR) = 100  
 12' X 18' (L/S) = 5  
 TOTAL = 105

DRIVE AISLE: 24'

SITE AREA CALCULATIONS:  
 SITE: 14.70 AC.  
 PERVIOUS AREA: 11.00 AC.  
 IMPERVIOUS AREA: 12.02 AC.  
 DISTURBED AREA: 13.70 AC.

FLOOD HAZARD:  
 NO PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER F.I.R.M. MAP NO. 12035C0290G, DATED 04/24/2006.

EXISTING INFORMATION:  
 PROVIDED BY MERRILL PARKER SHAW, INC., DATED 12/04/2008 (SEE SHEET C02.4 C02.1).

- BUILDING AREA NOTES**
- MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION, I.E. IN TIMES OF RAIN OR MUD, ROADS SHALL BE PASSABLE TO EMERGENCY VEHICLES BY BEING PAVED OR HAVING A CRUSHED STONE BASE ETC., WITH A MINIMUM WIDTH OF 20 FEET. THE ACCESS TO BUILDINGS HAVING SPRINKLER OR STANDPIPE SYSTEMS SHALL BE TO WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTION (NFPA 104-3-1).
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  - SEE SHEET C01 FOR GENERAL NOTES.

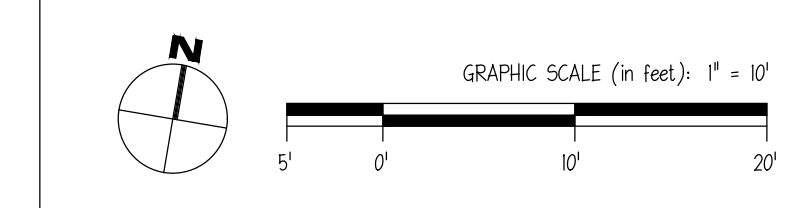
**PAVING LEGEND**

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- LIGHT DUTY PAVEMENT SECTION: DETAIL 2B, SHEET C03.8
- CONCRETE SECTIONS:  
 SIDEWALK: DETAIL 8, SHEET C03.7  
 DUMPSTER APPROACH PAD: DETAIL 1, SHEET C03.8 (TYPE B)

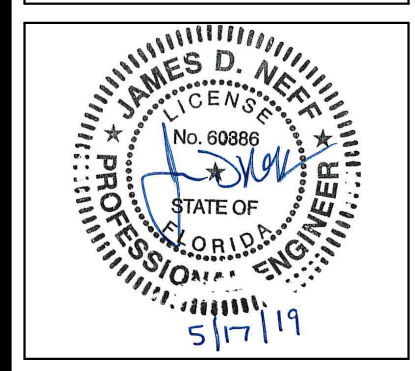
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24-HOUR CONTACT:  
 GREG FOX  
 (404) 754-8842



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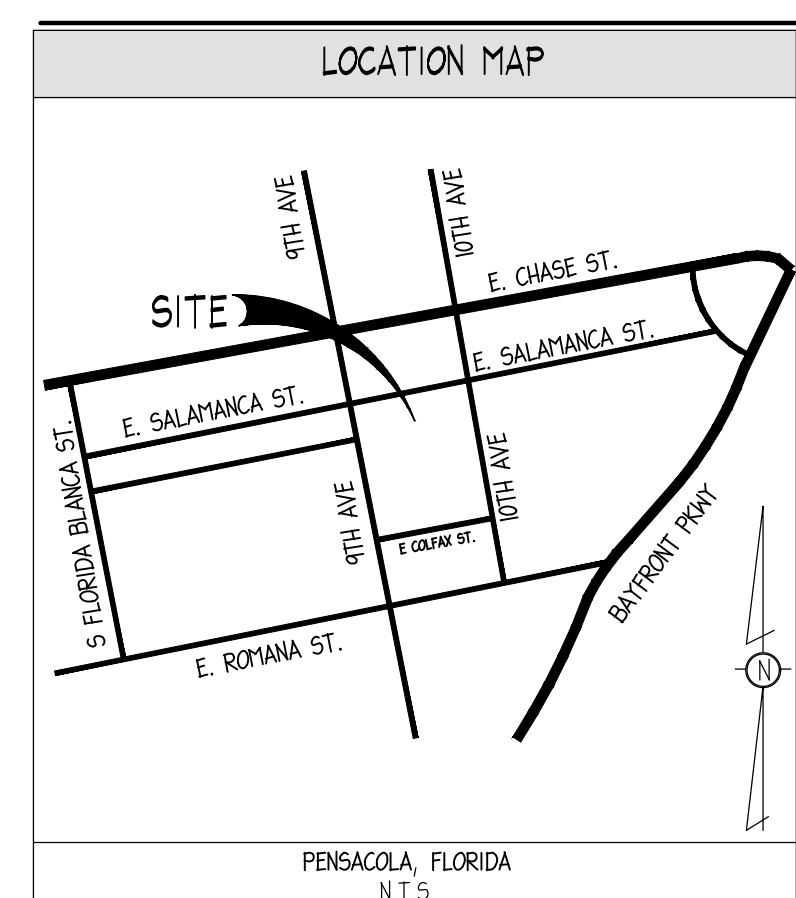
PROJ. #	170071
DWG. NAME	170071 C03.DWG
ISSUE DATE	05/17/2014
PROJ. TDR	JM

**BUILDING AREA DETAIL IV**  
 C03.5  
 SHEET NUMBER

ISSUE FOR PERMIT/PRICING

9TH AVENUE (P&F) (70' RIGHT-OF-WAY)

10TH AVENUE (P&F) (100' RIGHT-OF-WAY)



STAKING NOTES

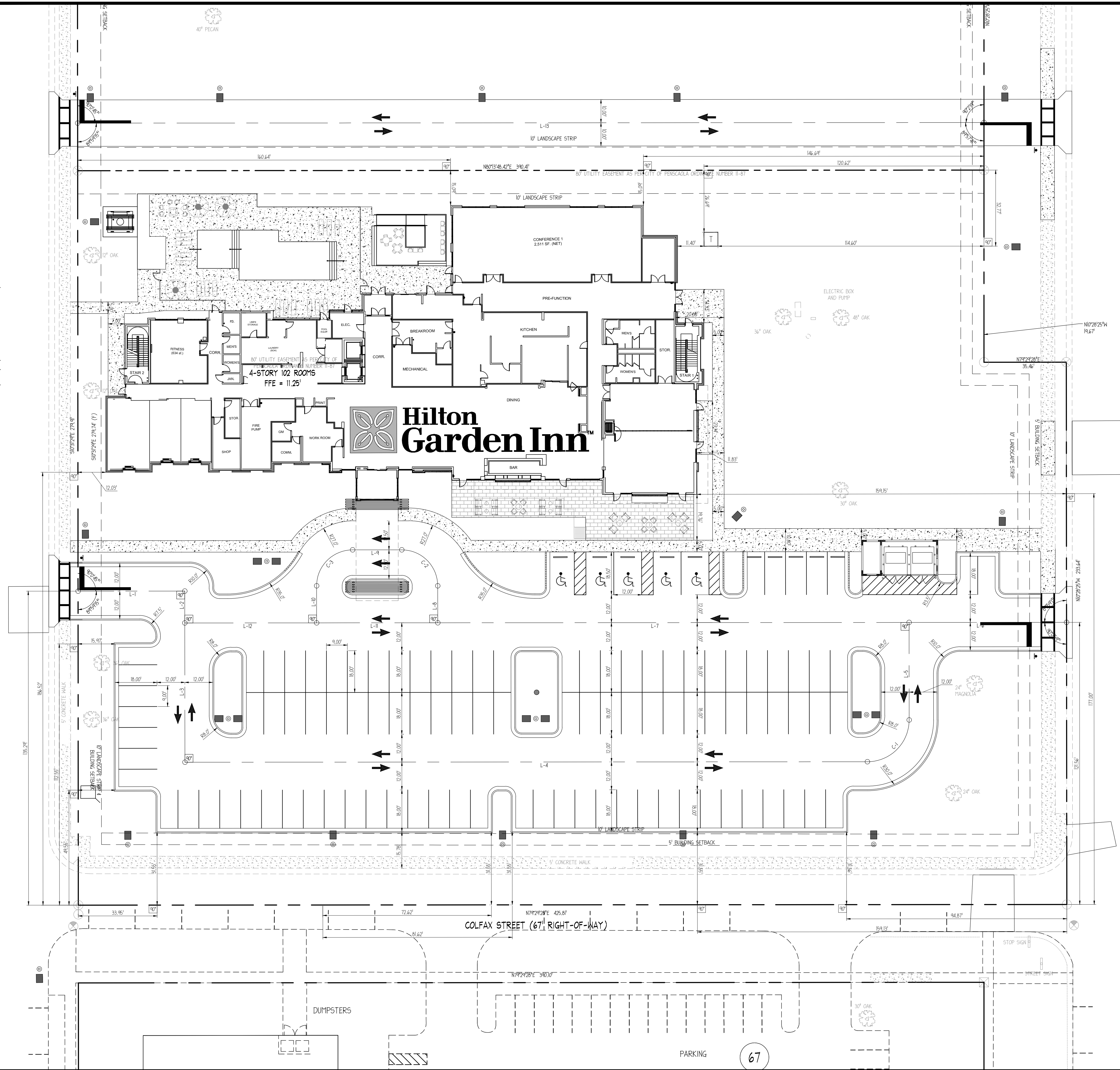
1. ALL RADII ARE 3/0' UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE MEASURED TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. SEE SHEET C011 FOR GENERAL NOTES.

LINE TABLE

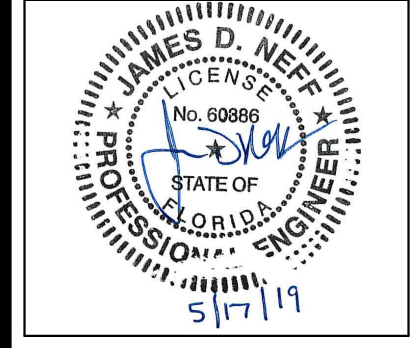
LINE #	LENGTH	DIRECTION	START POINT	END POINT
L-1	45.98'	N80°13'48"E	115925.75, 52446.99	115971.06, 52442.79
L-2	13.74'	S09°46'12"E	115971.06, 52442.79	115973.39, 52441.26
L-3	60.00'	S09°46'12"E	115973.39, 52441.26	115983.57, 52435.13
L-4	294.00'	N80°13'48"E	115983.57, 52435.13	116273.30, 52442.02
L-5	42.00'	S09°46'12"E	116280.86, 52446.42	116287.99, 52442.81
L-6	47.83'	N80°13'48"E	116280.86, 52446.42	116347.71, 52447.71
L-7	203.03'	N80°13'48"E	116400.77, 52442.75	116280.86, 52446.42
L-8	15.93'	S09°46'12"E	116678.07, 52445.45	116690.77, 52442.75
L-9	21.18'	N80°13'48"E	116699.29, 52445.45	116640.16, 52445.81
L-10	15.94'	S09°46'12"E	116678.07, 52445.45	116699.29, 52442.75
L-11	52.18'	N80°13'48"E	116699.29, 52442.75	116680.77, 52442.75
L-12	56.79'	N80°13'48"E	115973.39, 52441.26	116273.30, 52442.02
L-13	390.43'	N80°13'48"E	115891.45, 52445.71	116276.25, 52448.96

CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA	CHORD LENGTH	CHORD BEARING
C-1	28.27'	18.00'	90.000°	25.40'	N85°13'48"E
C-2	24.35'	15.50'	90.028°	21.93'	N5°48'21"W
C-3	24.35'	15.50'	90.000°	21.92'	S35°13'48"W



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SUITE 250  
TAMPA, FL 33618  
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PENSACOLA, FLORIDA



CLIENT:  
**PEACHTREE HOTEL GROUP**  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

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PROJ # 170071  
DWG NAME 170071 C03.DWG  
ISSUE DATE 05/17/2019  
PROJ TDR# 31

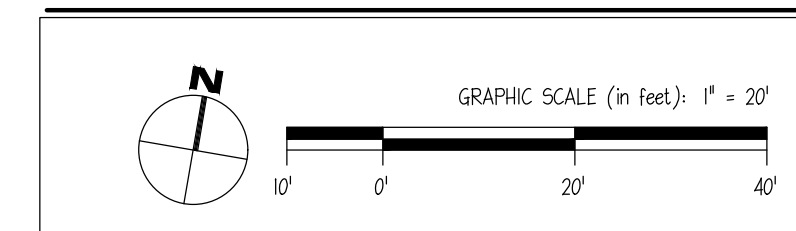
STAKING PLAN

C03.6  
SHEET NUMBER

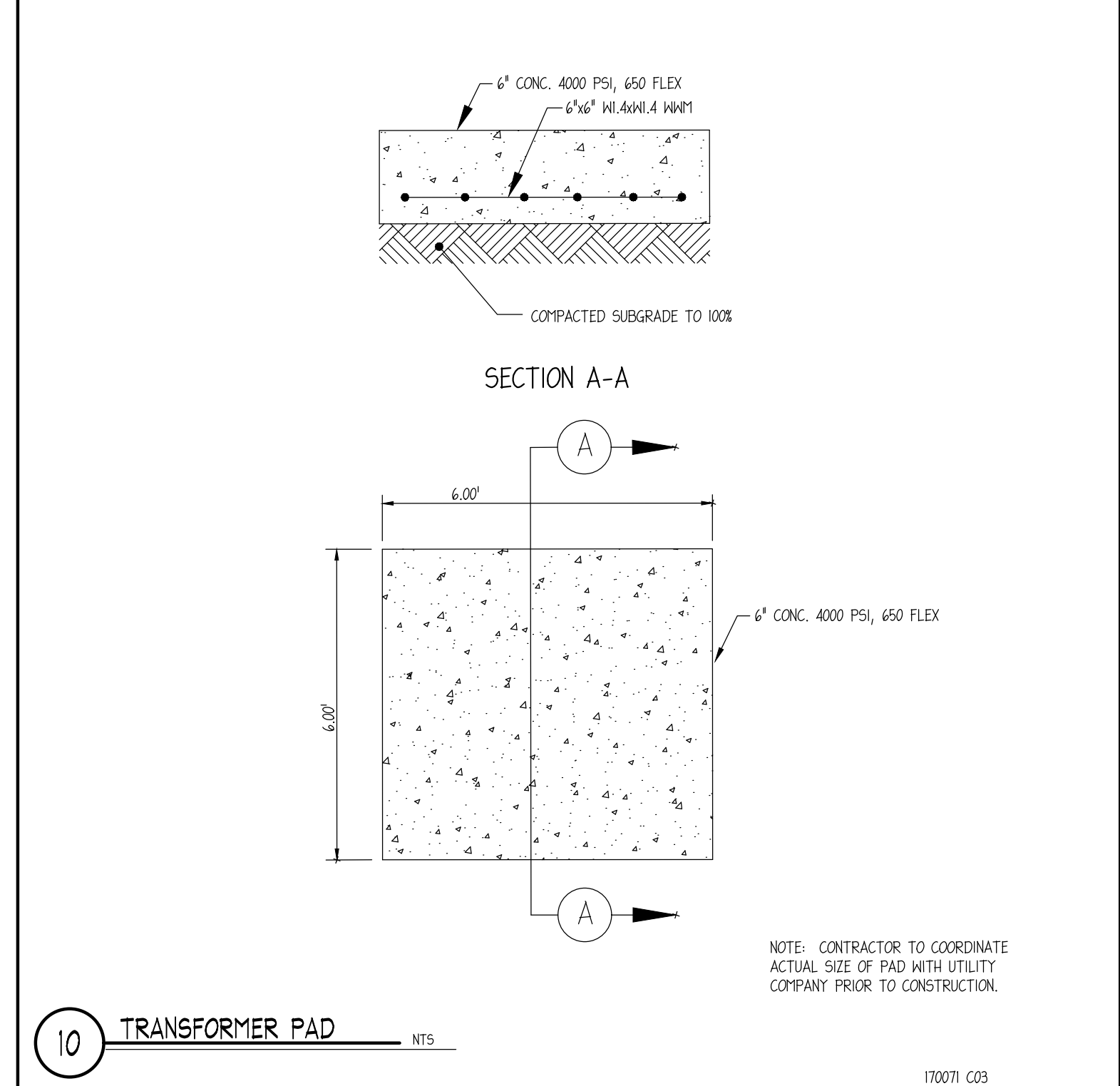
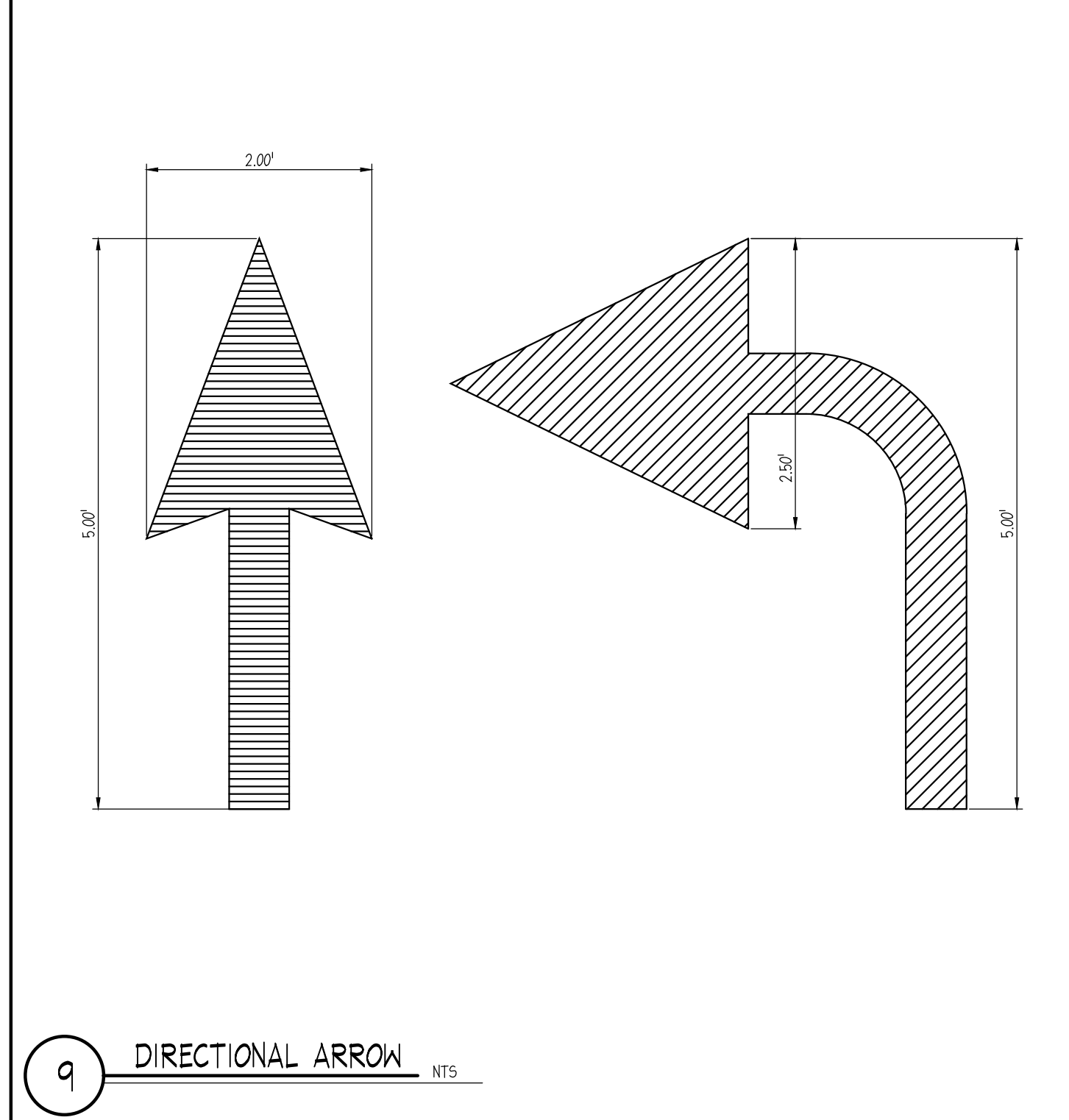
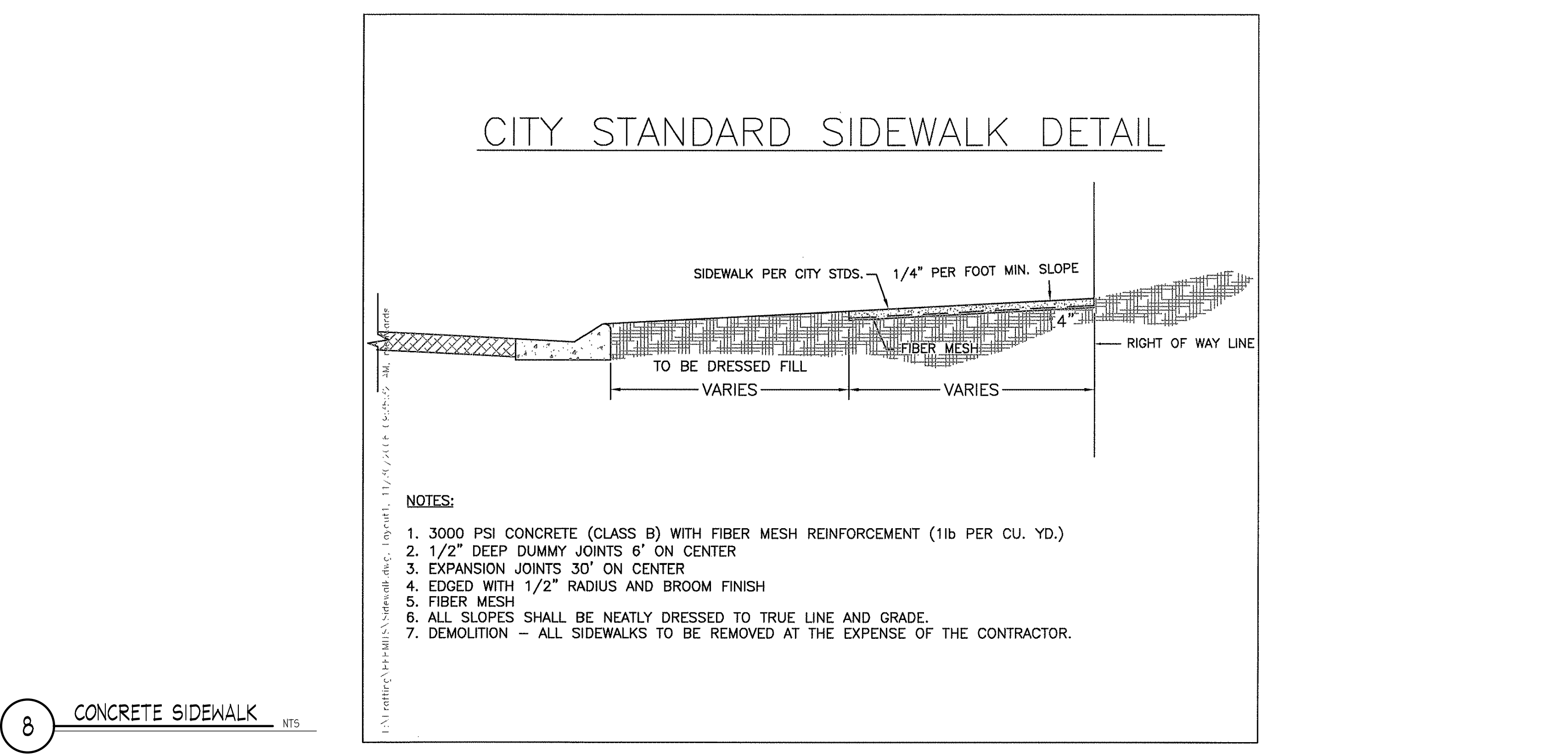
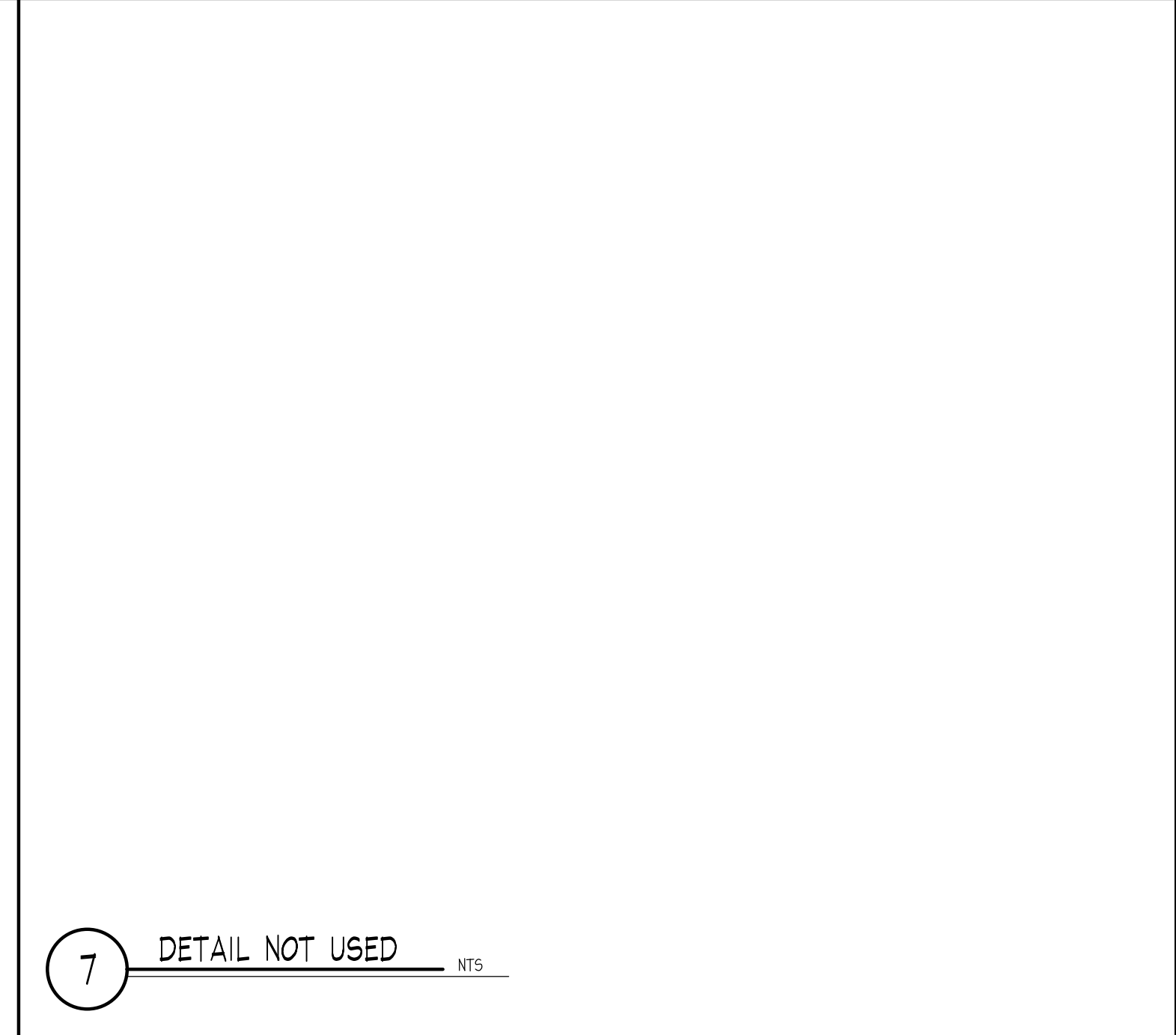
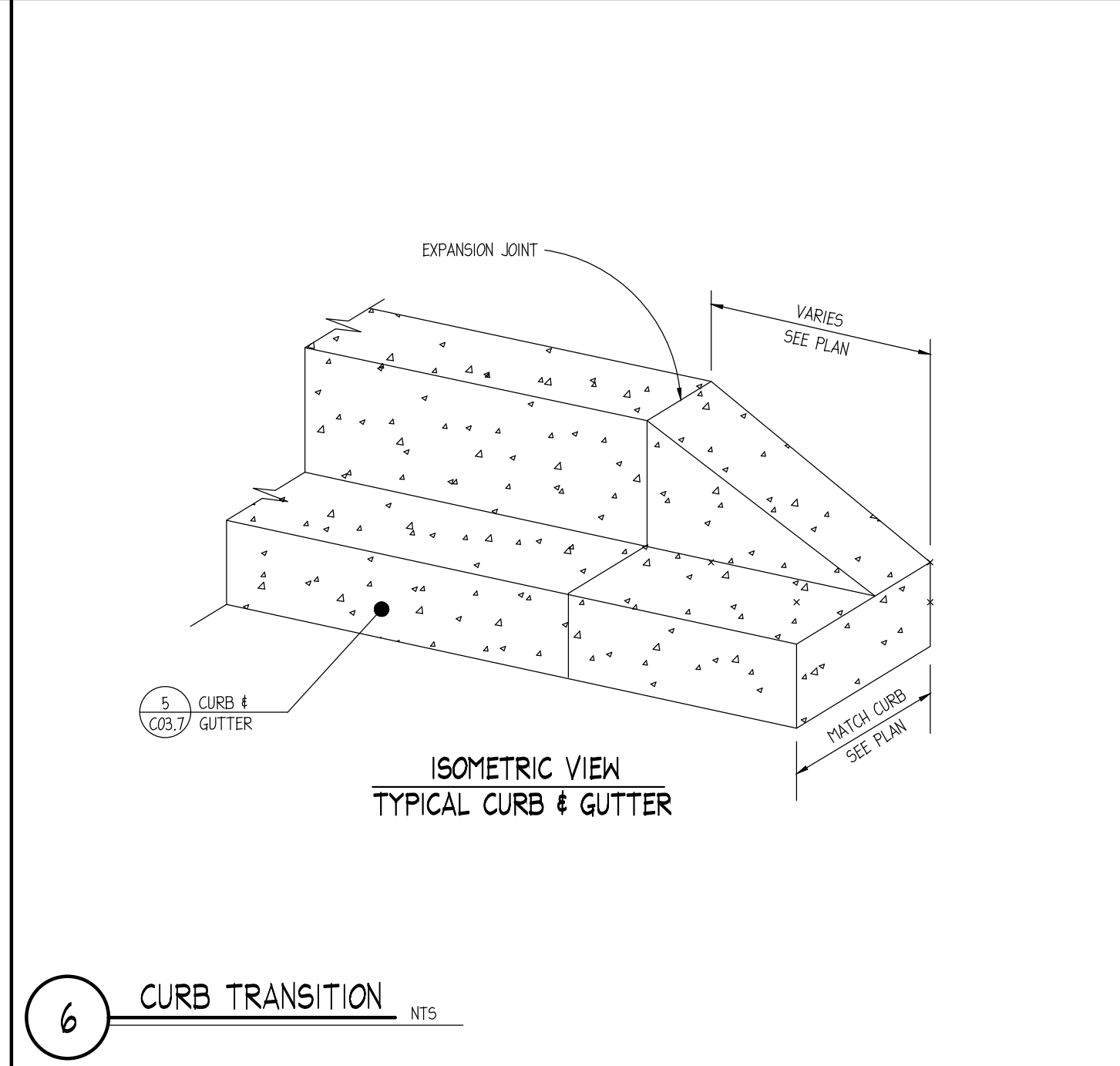
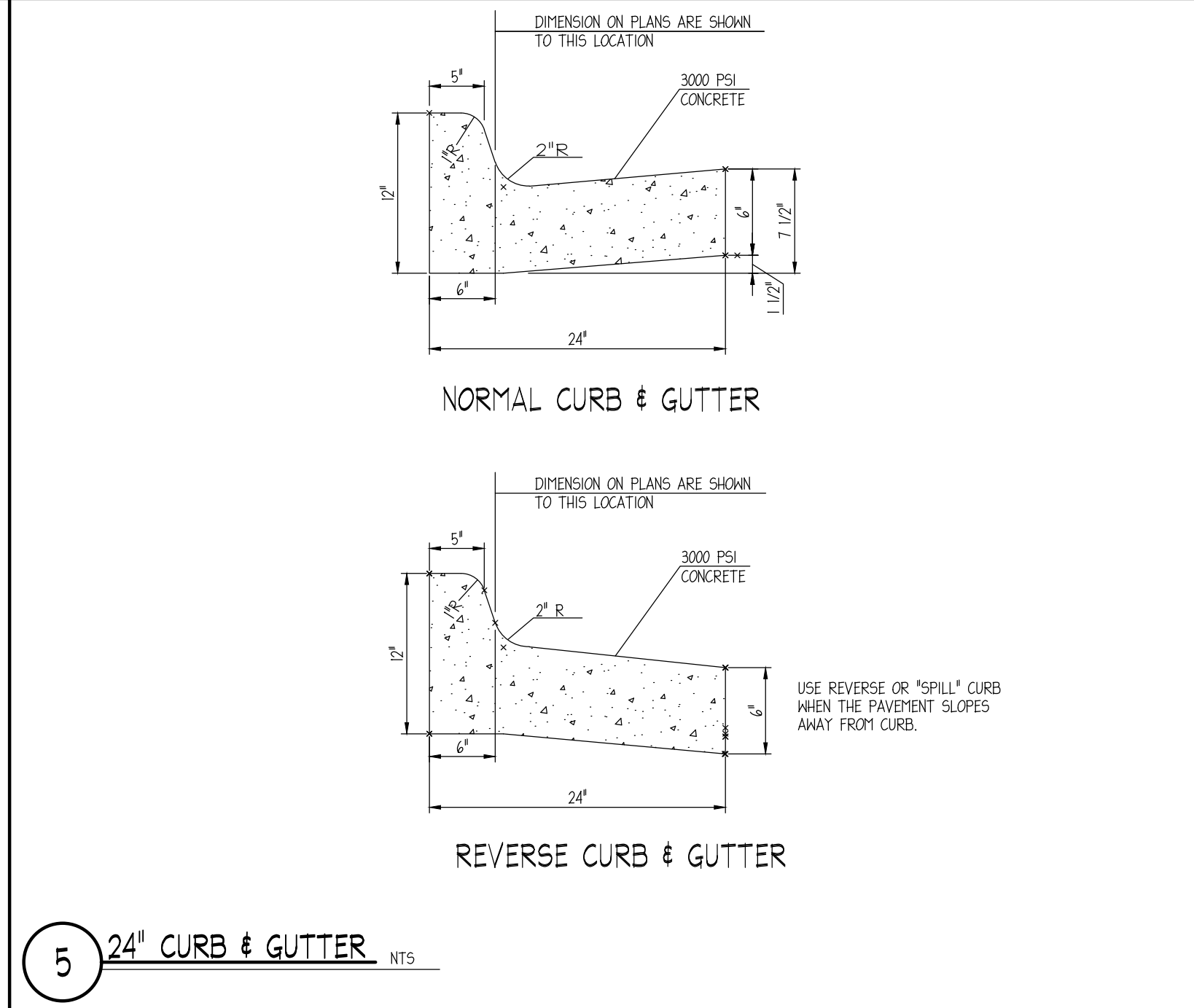
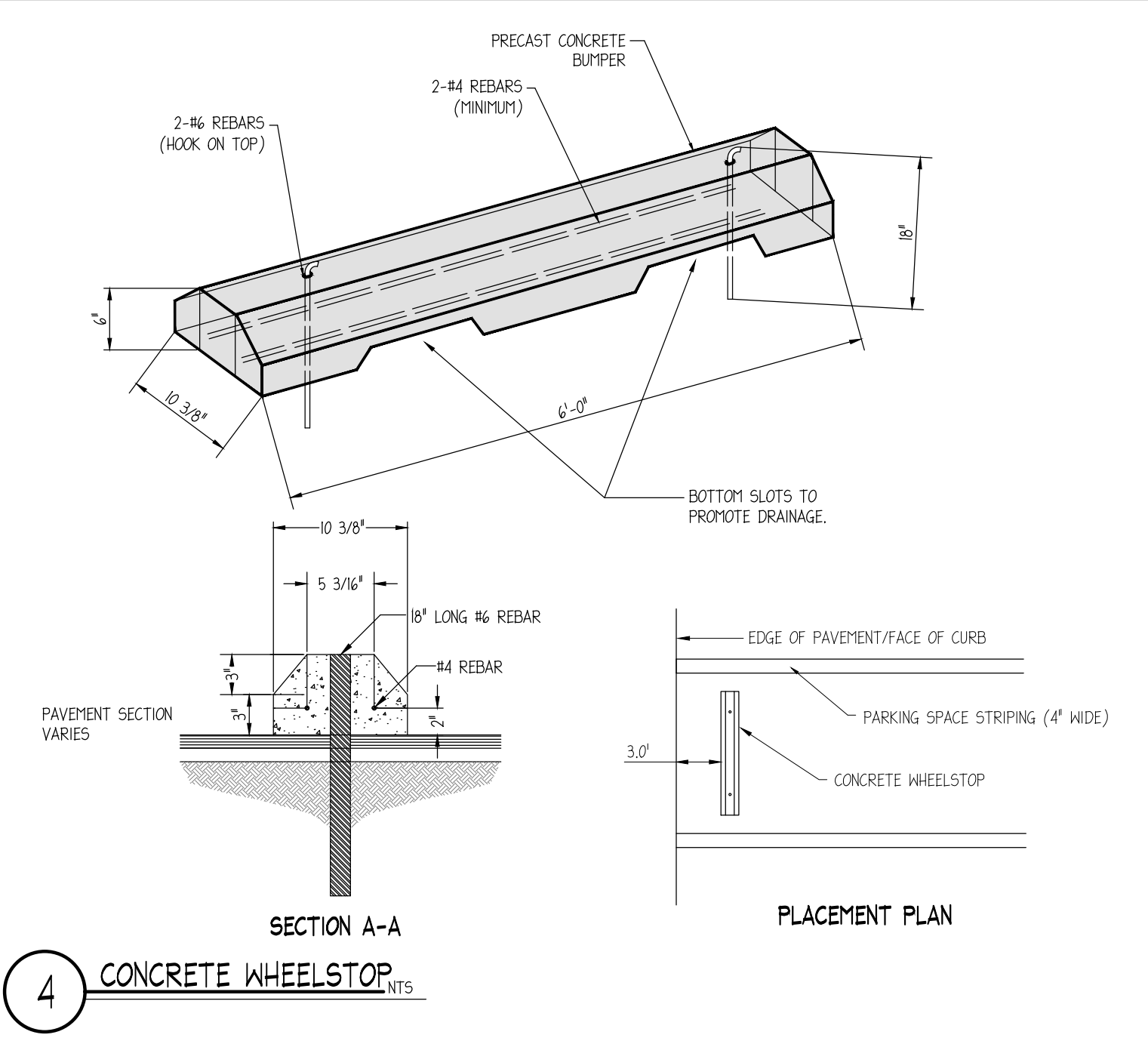
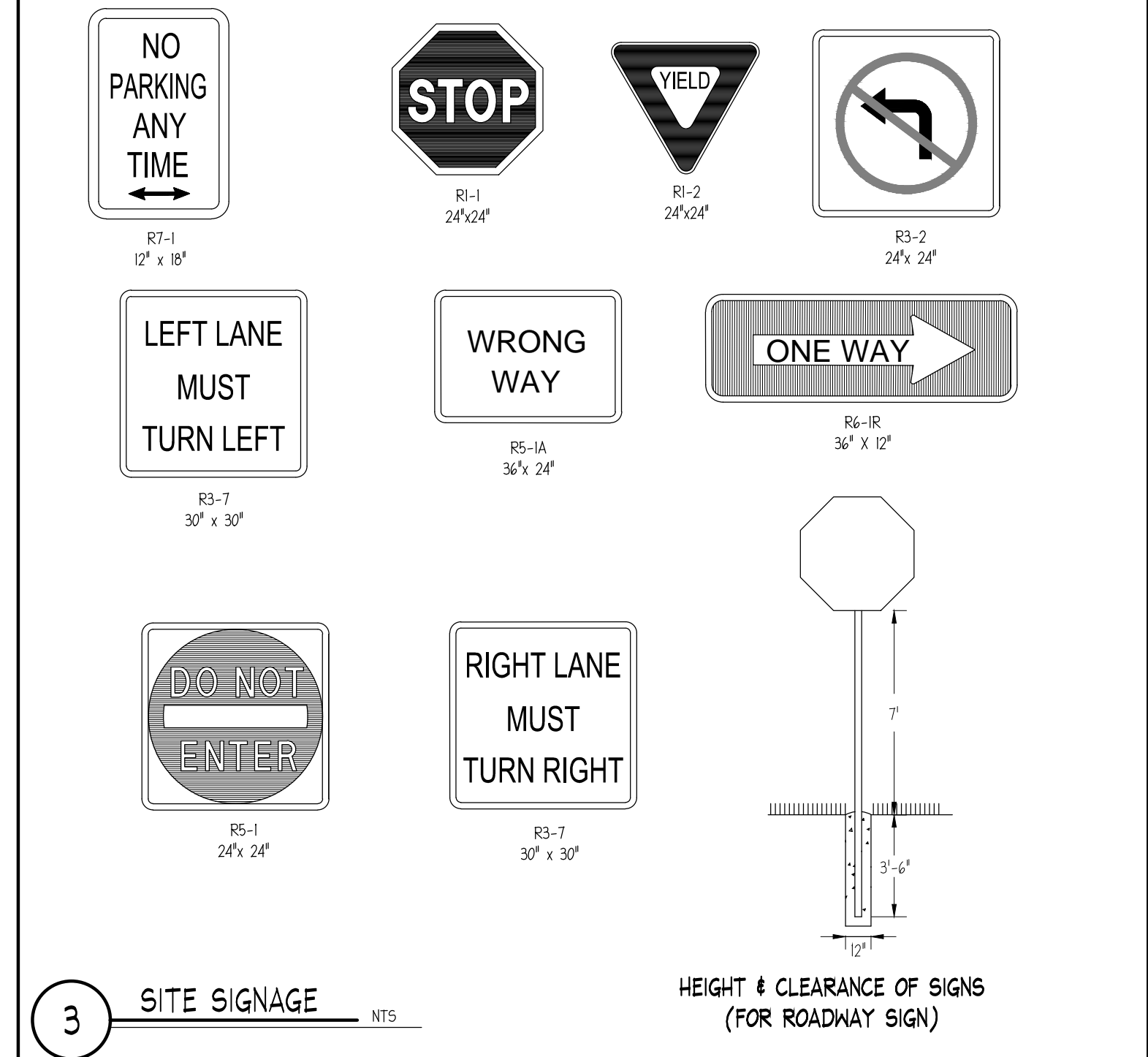
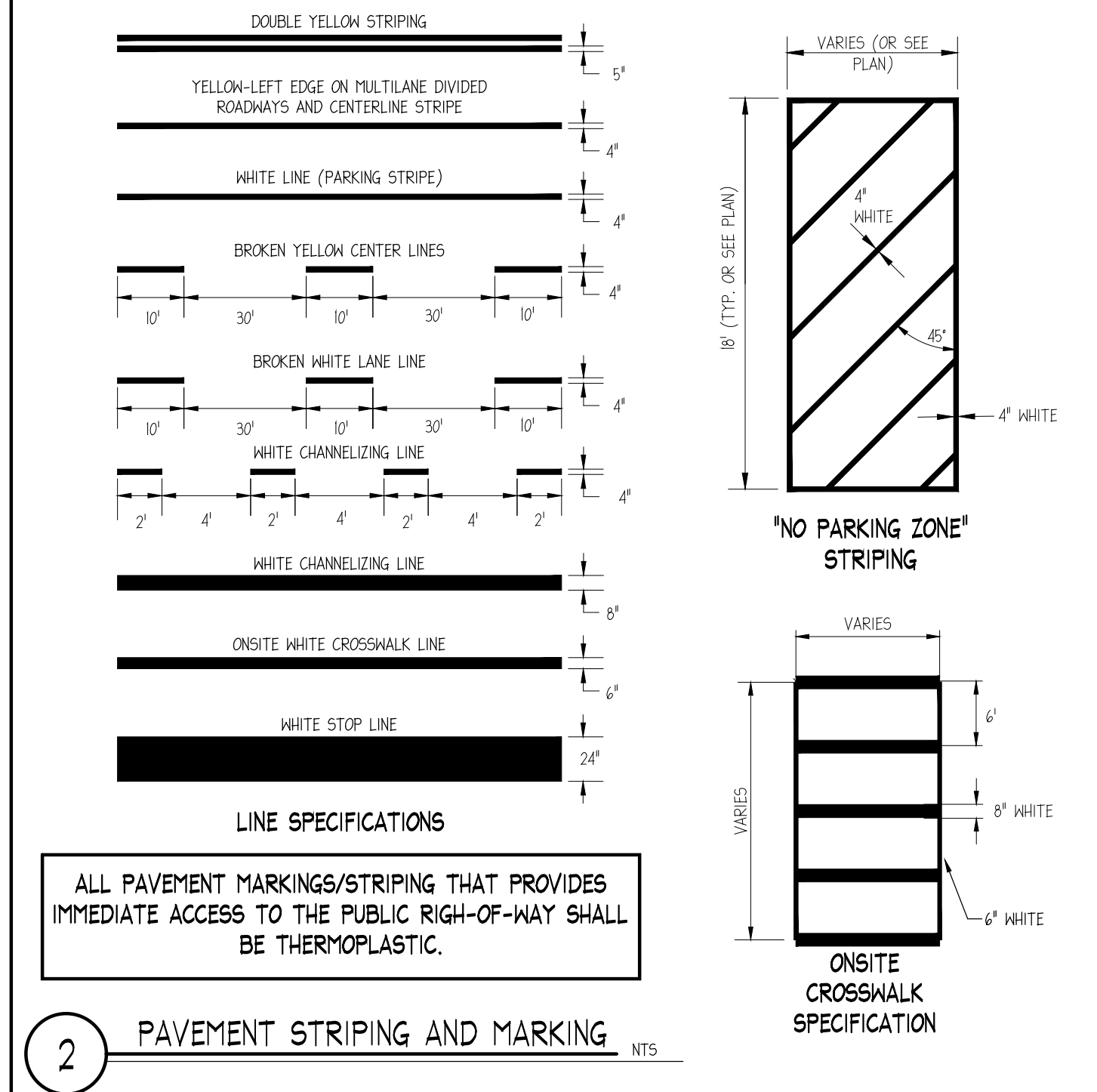
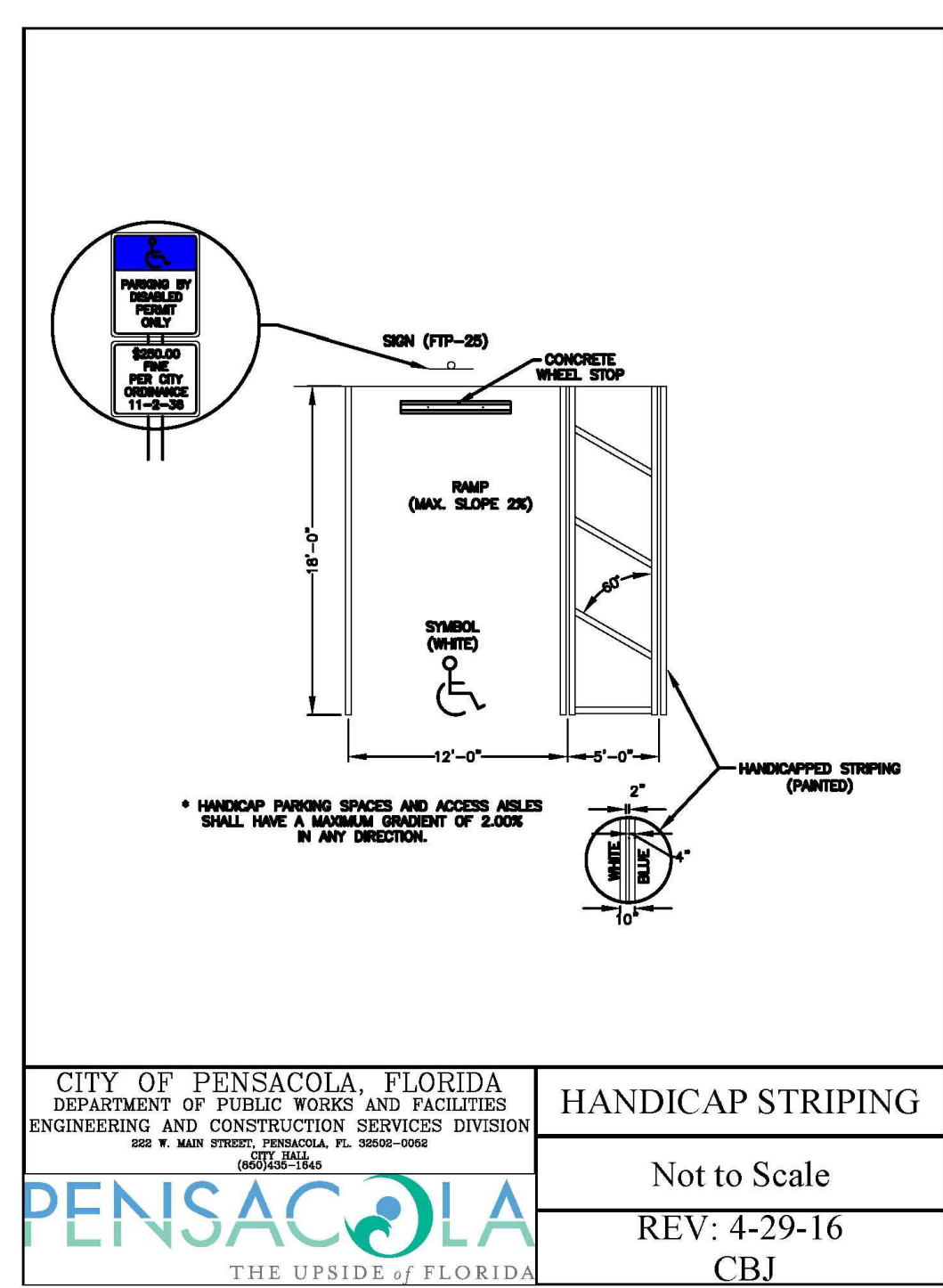
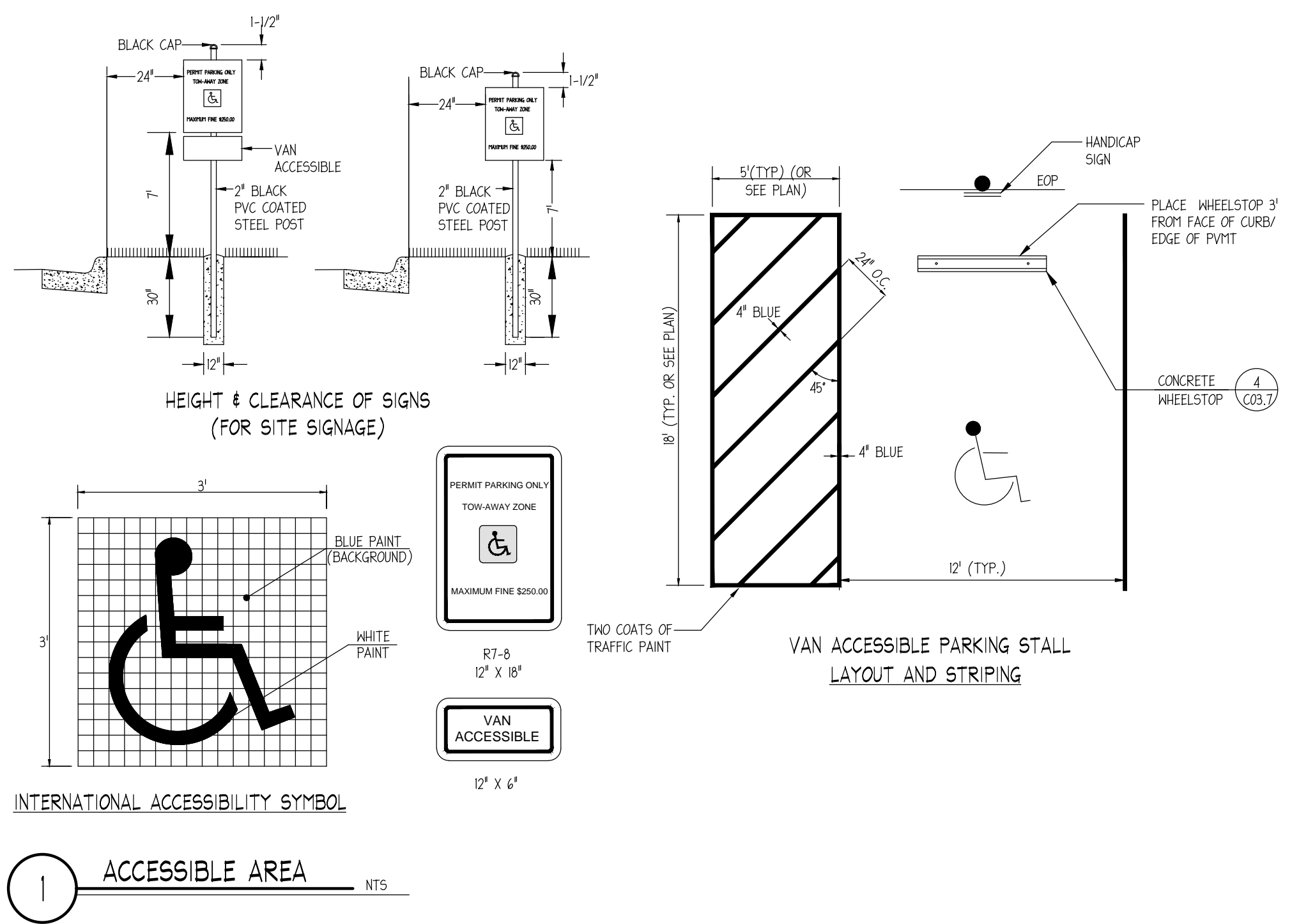
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PROJ # 170071  
DWG NAME 170071 COB.DWG  
ISSUE DATE 05/17/2014  
PROJ TDR: JN

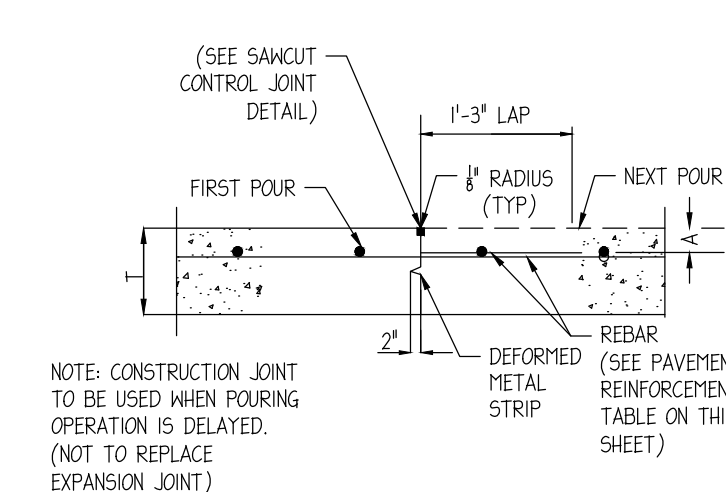
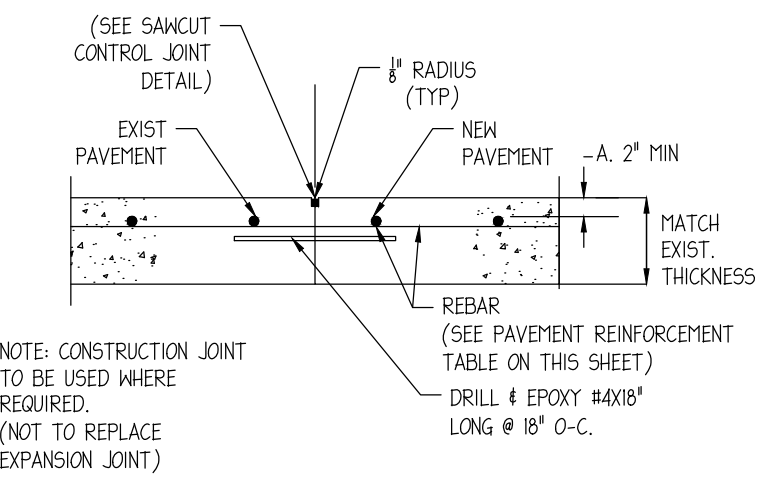
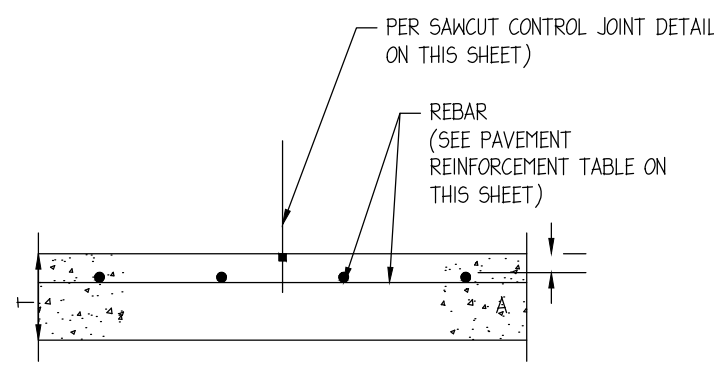
HARDSCAPE DETAILS 1

COB.7  
SHEET NUMBER

170071 COB

ISSUE FOR PERMIT/PRICING

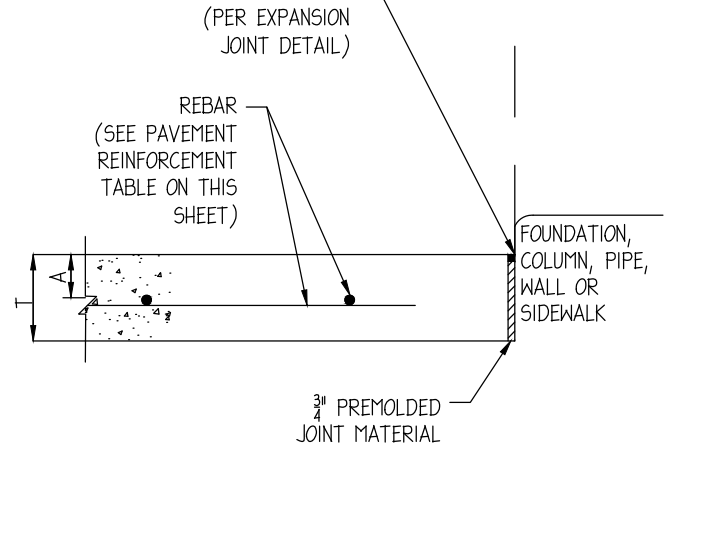
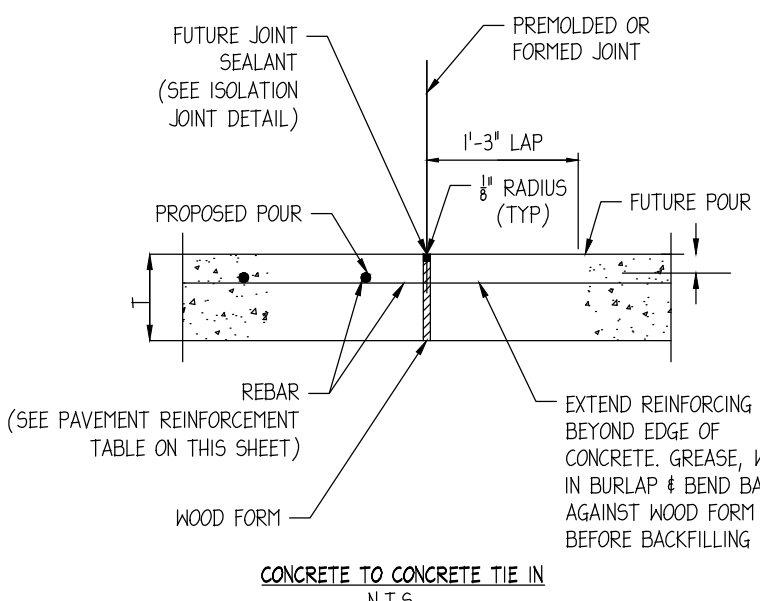
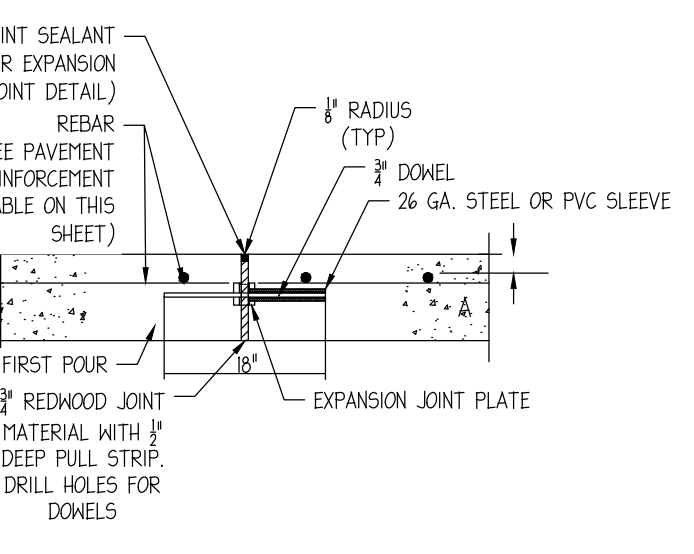




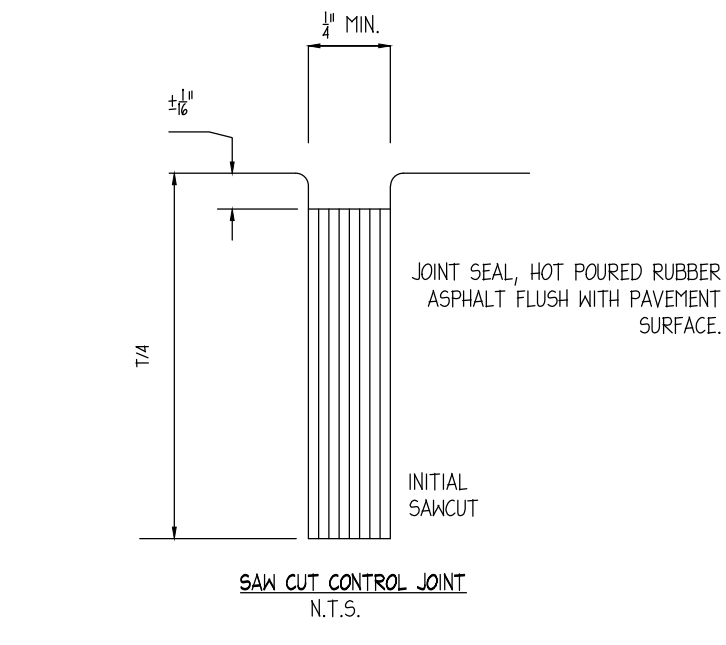
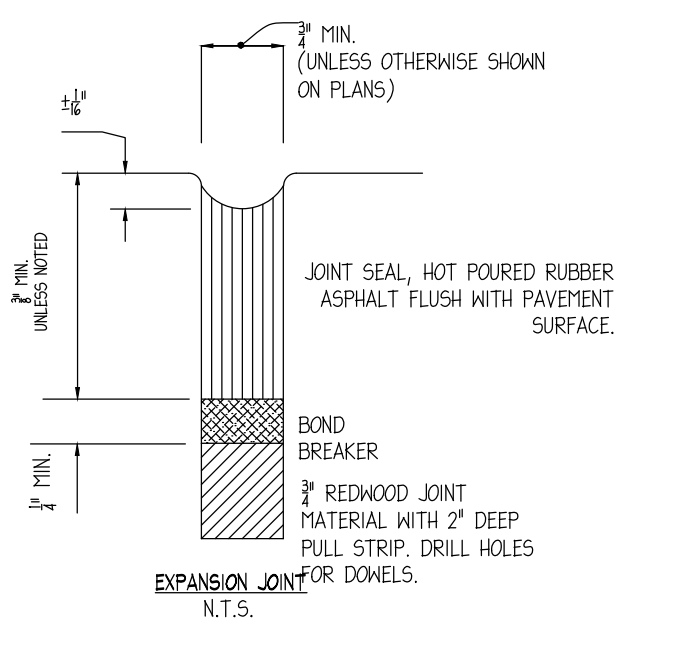
SAWCUT JOINT  
N.T.S.

CONCRETE TO CONCRETE TIE IN  
N.T.S.

CONSTRUCTION JOINT  
N.T.S.

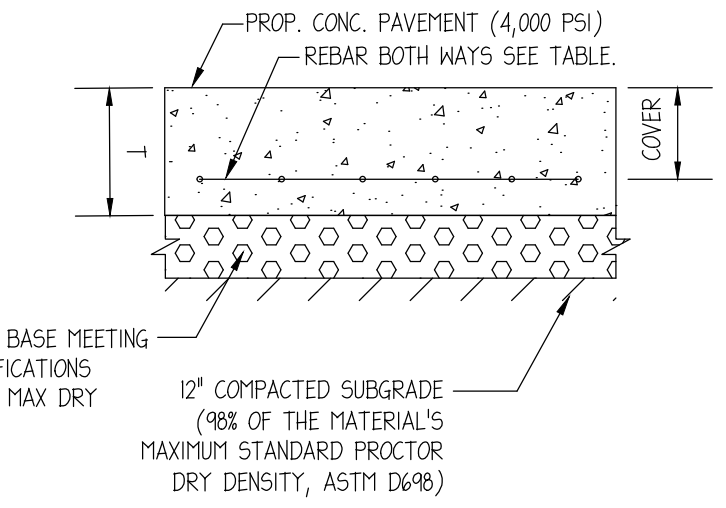


- NOTES:**
- REINFORCING STEEL BAR SIZE/SPACING SPECIFICATIONS IN GEOTECH REPORT SHALL SUPERSEDE ABOVE TABLE.
  - REINFORCING STEEL SIZE/SPACING IS BASED ON MIN. 60,000 PSI TENSILE STRENGTH REINFORCING STEEL AS SHOWN.
  - CONCRETE PAVING MIX DESIGN SHALL HAVE MINIMUM 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. GEOTECHNICAL REPORT CONCRETE PAVING MIX DESIGN SHALL SUPERSEDE VALUES HEREIN.
  - MAXIMUM JOINT SPACING SHALL BE PER JOINT LAYOUT PLAN (IF PROVIDED) BUT SHALL NOT EXCEED VALUES IN TABLE.
  - MAXIMUM JOINT SPACING IN GEOTECHNICAL REPORT SHALL SUPERSEDE VALUES IN ABOVE TABLE.
  - USE STATE DOT SUBBASE UNLESS OTHERWISE SPECIFIED BY GEOTECHNICAL REPORT.
  - ALL JOINTS IN PAVING SHALL BE REFLECTED IN CURBING AND SHALL HAVE ALL THEIR RESPECTIVE JOINTING MATERIALS PRESENT (I.E. EXPANSION JOINTS SHALL HAVE THEIR RESPECTIVE FILLER BOARD AND CAULK REPLACED).
  - CURB EXPANSION JOINTS - IF THERE IS AN EXPANSION JOINT IN THE PAVING, THE EXPANSION JOINT MUST FOLLOW THROUGH THE CURB. THE REINFORCING STEEL MUST ALSO BE CUT AT THE EXPANSION JOINT AND NOT ALLOWED TO RUN THROUGH THE JOINT CONTINUOUSLY. A SAW CUT EXPANSION JOINT IS NOT ACCEPTABLE BECAUSE NORMAL EXPANSION AND CONTRACTION WILL CAUSE THE CONCRETE TO PUSH AGAINST THE TWO SECTIONS AND ONE SIDE WILL EVENTUALLY FAIL. IF AN EXPANSION JOINT IS LEFT OUT AND MUST BE SAW CUT IN, THE CURB SHOULD BE CUT TWICE AND A 3/4" PIECE OF CONCRETE IS REMOVED. IN ALL CASES THE JOINT SHOULD BE CAULKED WITH NP1.
  - CONCRETE TOUCHING THE BACK OF CURBS- ANY CONCRETE THAT TOUCHES THE BACK OF A CURB INCLUDING SIDEWALKS, ISLAND NOSINGS AND PAYPHONE PADS SHALL BE ISOLATED FROM THE CURB USING 3/4" BLACK ASPHALT IMPREGNATED FIBERBOARD. CONTRACTOR SHALL USE A REMOVABLE STRIP OR A ZIP-STRIP AND SEAL THE JOINT WITH SL1. THE ONLY EXCEPTION IS IF THE ISLAND NOSINGS ARE POURED MONOLITHICALLY WITH THE CURB AND PARKING LOT.
  - CURBS AT THE BUILDING FOUNDATION- IF A CURB TOUCHES THE BUILDING FOUNDATION, IT NEEDS TO BE ISOLATED WITH EXPANSION JOINT MATERIAL JUST LIKE THE PAVING. IF AN EXPANSION JOINT IS LEFT OUT AND MUST BE SAW CUT IN, A 3/4" PIECE OF CONCRETE SHOULD BE REMOVED. THE JOINT SHOULD BE CAULKED WITH NP1.
  - EXPANSION JOINTS AT ISLAND NOSINGS- IF THE ISLAND NOSINGS ARE POURED MONOLITHICALLY WITH THE CURB AND PARKING LOT, THEN PAVING EXPANSION JOINTS SHOULD CONTINUE THROUGH THE NOSINGS.



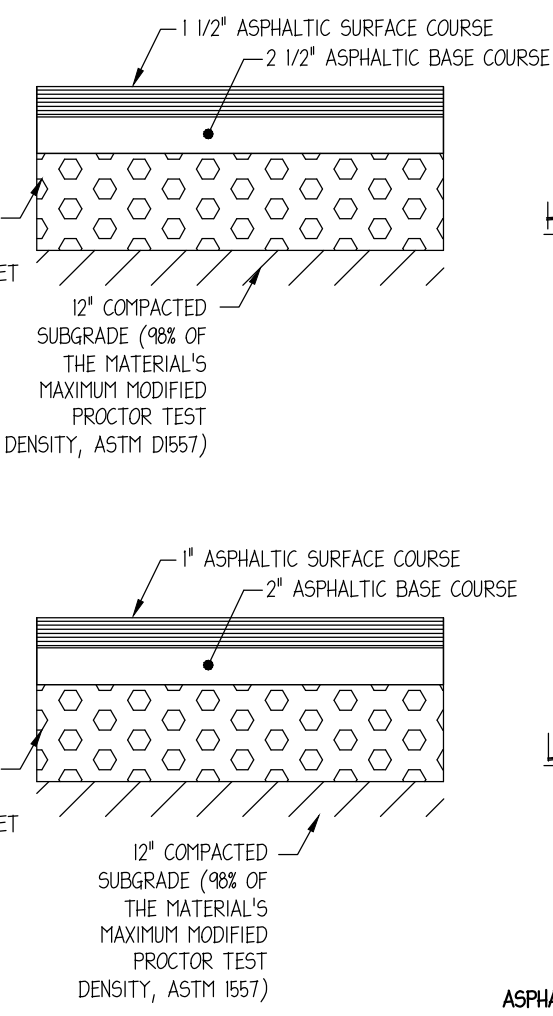
**REINFORCEMENT TABLE**

CONCRETE SECTION DESIGNATION	SLAB THICKNESS (IN.)	COVER (IN.) (2" MIN)	MAX. EXPANSION JOINT SPACING (FT.)	60,000 PSI STEEL REINFORCING STEEL BAR SIZE & SPACING*
TYPE 'A'	6	2	15	#3 @ 24" C-C
TYPE 'B'	8	2	15	#3 @ 24" C-C
TYPE 'C'	12	2	15	#3 @ 24" C-C



1 CONCRETE SECTION N.T.S.

3 NOT IN USE N.T.S.



- ASPHALT NOTES:**
- THE ASPHALT SURFACE COURSE SHOULD CONFORM TO THE MOST RECENT EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, FOR HOT MIX ASPHALTIC CONCRETE SURFACE COURSE.
  - THE BASE COURSE SHOULD CONFORM TO THE FDOT STANDARDS FOR BASE COURSE COMPACTED TO 100 PERCENT OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM DRY DENSITY.
  - TACK COAT SHOULD BE PROVIDED ATOP EACH PAVEMENT SECTION.

2 PAVEMENT SECTION N.T.S.

**NOTICE OF LAND CONTROL ORDINANCE**

CITY ORDINANCE REQUIRES THAT EVERY BUILDER MUST PREVENT LAND EROSION BY CONTROLLING SEDIMENTATION AND RUNOFF ON EVERY CONSTRUCTION PROJECT. MEANS WHICH SHALL BE THE RESPONSIBILITY OF THE BUILDER. IT IS RECOMMENDED THAT LOT CLEARING BE DONE IN STAGES, AS NO LOT SHOULD BE COMPLETELY CLEARED UNTIL SOIL STABILIZATION IS COMPLETE. DRIVEWAY SHALL BE INSTALLED IN SUCH A MANNER AS TO NEITHER CREATE A STANDING WATER ISSUE, CREATE AN EROSION ISSUE, NOR DIRECT STORMWATER ONTO PRIVATE PROPERTY. INSTALLATION OF DRIVEWAY SHALL ALLOW FOR STORMWATER TO FLOW ALONG SAME COURSE AS PRE-CONSTRUCTION CONDITIONS. FOR FURTHER INFORMATION, CONTACT THE BUILDING INSPECTION DEPARTMENT 436-5600.

**TYPE "B" (Layback) CURB DRIVEWAY DETAIL**

CONTRACTOR TO NOTE: THIS IS NOT AN EXPANSION JOINT. THIS LINE SHOWN TO ENSURE GUTTER PAN AND DRIVEWAY ARE POURED IN A MANNER NECESSARY TO MAINTAIN A CONTINUOUS FLOW LINE IN THE GUTTER.

DRIVEWAY FROM R/W TO ASPHALT IS TO BE ONE POUR AND INCLUDE LEFT AND RIGHT FLARES.

ALL PORTIONS OF CURB AND GUTTER AND DRIVE WAY IN RIGHT OF WAY SHALL BE NO LESS THAN 6" THICK.

REMOVE GUTTER AND GUTTER PAN

SECTION A/A

3'-0" MIN.

6" MAX. FLARE 12" MIN.

EDGE OF ASPHALT

NOTES:

- 3000 PSI CONCRETE AT 28 DAYS WITH 1 LB. FIBER REINFORCEMENT PER CU. YD.
- EDGE OF PAVEMENT SHALL BE SAWCUT AS NECESSARY TO PREVENT ASPHALT FAILURE/DRAINING AND TO PROVIDE SMOOTH EDGE/TRANSITION BETWEEN ASPHALT AND CONCRETE.
- EXPANSION JOINTS AS REQUIRED.
- EDGED WITH 1/2" RADIUS AND BROOM FINISH.

**ALLOWABLE WIDTH**

	MIN.	MAX.
[ ] RESIDENTIAL: 12'-0" (SINGLE DRIVEWAY)		24'-0"
[ ] RESIDENTIAL: 20'-0" (JOINT-USE DRIVEWAY)		24'-0"
[ ] RESIDENTIAL: 24'-0" (MULTI-FAMILY)		40'-0"
[ ] COMMERCIAL: 12'-0"		40'-0"

**MID-BLOCK LAYOUT**

1' MIN. DRIVEWAY WIDTH

42' MIN. MAX. OF 3 CURB CUTS PER PROPERTY

**CORNER LOT LAYOUT**

1' MIN. DRIVEWAY WIDTH

15' MIN. LOCAL STREETS 30' MIN. ARTERIAL OR COLLECTOR STREETS

3' MIN. FROM RAINAGE INLETS

POINT OF CURVATURE

CITY OF PENSACOLA, FLORIDA  
DEPARTMENT OF PUBLIC WORKS AND FACILITIES  
ENGINEERING AND CONSTRUCTION SERVICES DIVISION

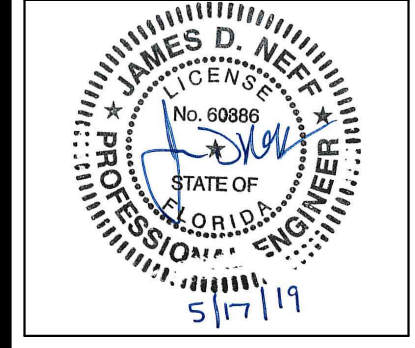
REV. AUG/10/18 (C8)

4 DRIVEWAY INSTALLATION N.T.S.



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14491 N DALE HENRY HWY  
SUITE 250  
TAMPA, FL 33618  
813.367.0084  
INGENIUM@INGENIUMTEAM.COM



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HILTON GARDEN INN  
EAST SALAMANCA STREET  
PENSACOLA, FLORIDA



CLIENT:  
**PEACHTREE HOTEL GROUP**  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

**REVISION HISTORY**

NO.	DESCRIPTION
1	ISSUE FOR PERMIT/PRICING

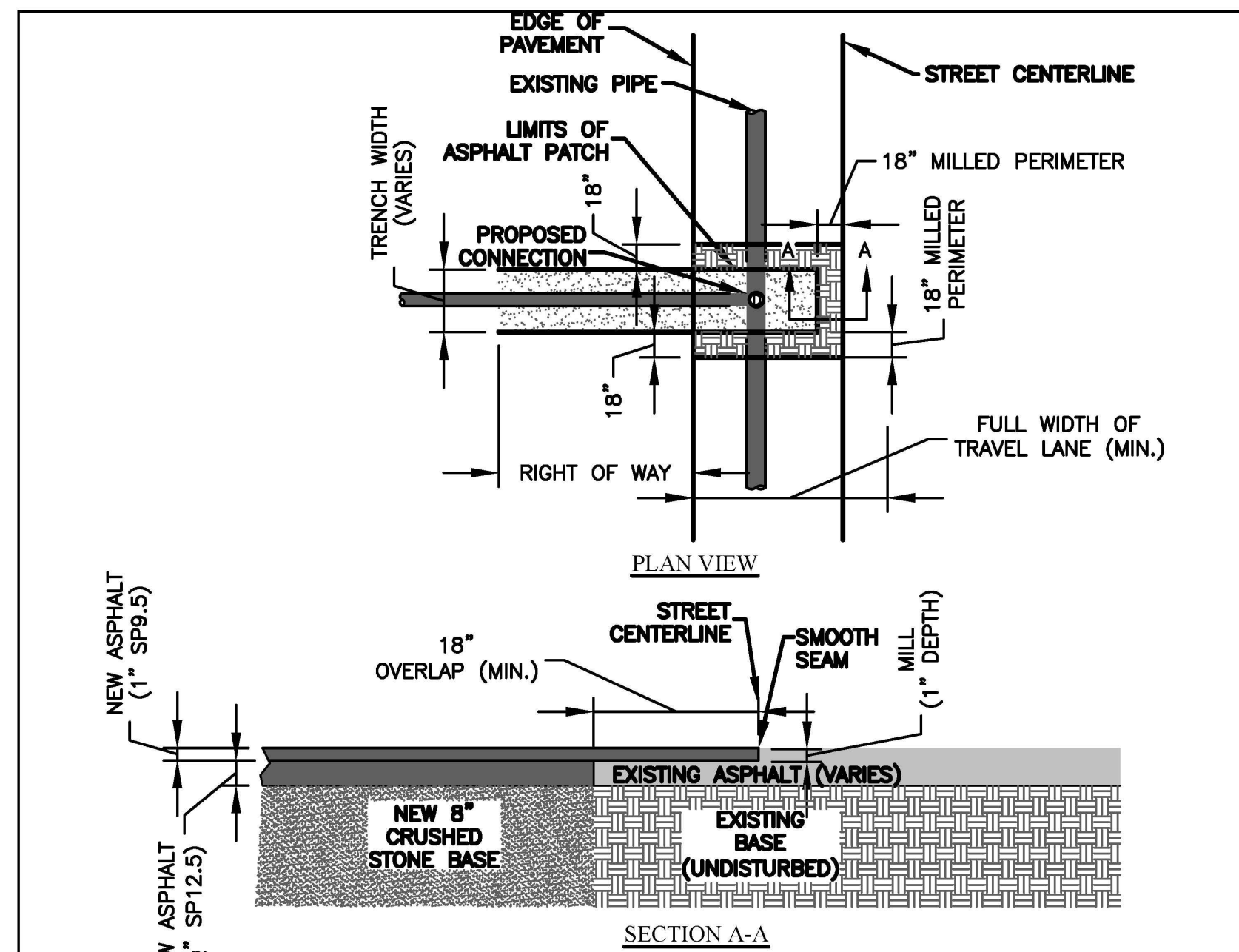
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PROJ. # 170071  
DWG. NAME 170071\_C03.DWG  
ISSUE DATE 05/17/2019  
PROJ. TSGR 31

**HARDSCAPE DETAILS II**

C03.8  
SHEET NUMBER

ISSUE FOR PERMIT/PRICING



**GENERAL NOTES:**

1. ASPHALTIC CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
2. SURFACE TREATMENT PAVED JOINTS SHALL BE LAPPED AND FEATHERED.
3. SURFACE REPLACEMENT COURSE TO BE 1-1/2" TYPE SP-12.5 OVERLAIN WITH 1" TYPE SP-9.5 ASPHALTIC CONCRETE.
4. SUB BASE MATERIAL TO BE PLACED AND COMPACTED IN 8" LIFTS TO A MINIMUM OF 100% STANDARD PROCTOR.
5. MINIMUM SURFACE REPLACEMENT COURSE OF LONGITUDINAL CUTS TO BE ONE HALF OF EXISTING ROAD OR 12' MINIMUM.
6. LONGITUDINAL CUT REPLACEMENT BASE SHALL BE FULL DEPTH ASPHALTIC CONCRETE OR 8" CRUSHED STONE.
7. ANY VARIANCE MUST BE APPROVED ON INDIVIDUAL BASIS BY THE CITY ENGINEER.
8. PERMIT FROM ENGINEERING AND INSPECTION BY PUBLIC WORKS IS REQUIRED. SEE INSPECTION INSTRUCTIONS ATTACHED.
9. CONTACT PUBLIC WORKS AND ALL EMERGENCY SERVICES (POLICE, FIRE & EMERGENCY MEDICAL SERVICES) BEFORE COMPLETELY CLOSING A ROAD. NOTIFY THE ABOVE AGAIN ONCE THE ROAD HAS BEEN RE-OPENED.

CITY OF PENSACOLA, FLORIDA  
 DEPARTMENT OF PUBLIC WORKS AND FACILITIES  
 ENGINEERING AND CONSTRUCTION SERVICES DIVISION  
 222 W. MAIN STREET, PENSACOLA, FL 32502-0062  
 CITY HALL  
 (850) 436-1846

**PENSACOLA**  
 THE UPSIDE OF FLORIDA

**STREET CUT & PATCH**

Not to Scale  
 REV: 4-27-18  
 CBJ

**INSPECTION**  
 CUT AND PATCH OF CITY STREETS

**PRELIMINARY INSPECTION**

Compaction of limerock patch and milled perimeter is to be inspected by the Department of Public Works (before paving operations). If compaction, milling, or any other portion of the cut and patch section does not meet attached standards then backfill material must be removed and replaced to meet City Standards.

**FINAL INSPECTION**

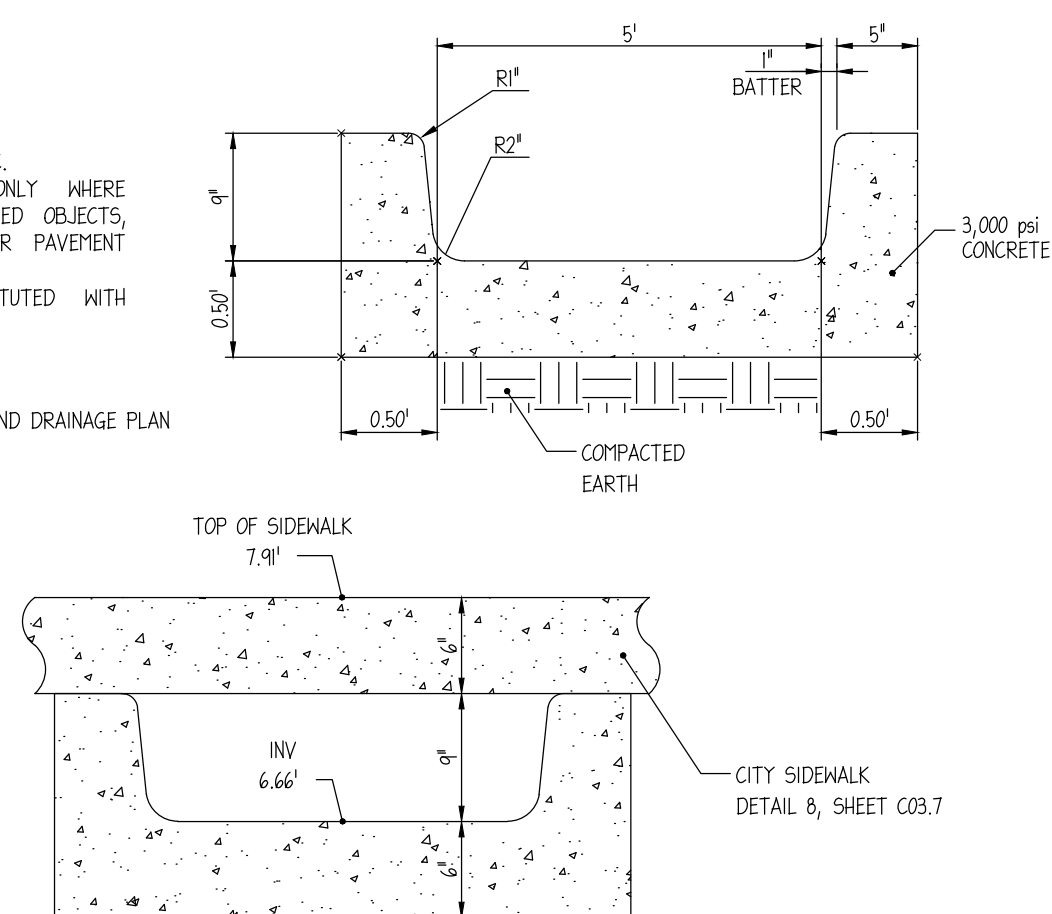
Final inspection is conducted after the asphalt paving or other work has been completed. Please call **436-5600** between 7:30 A.M. - 4:30 P.M. to schedule the preliminary and final inspections.

1 STREET CUT & PATCH NTS

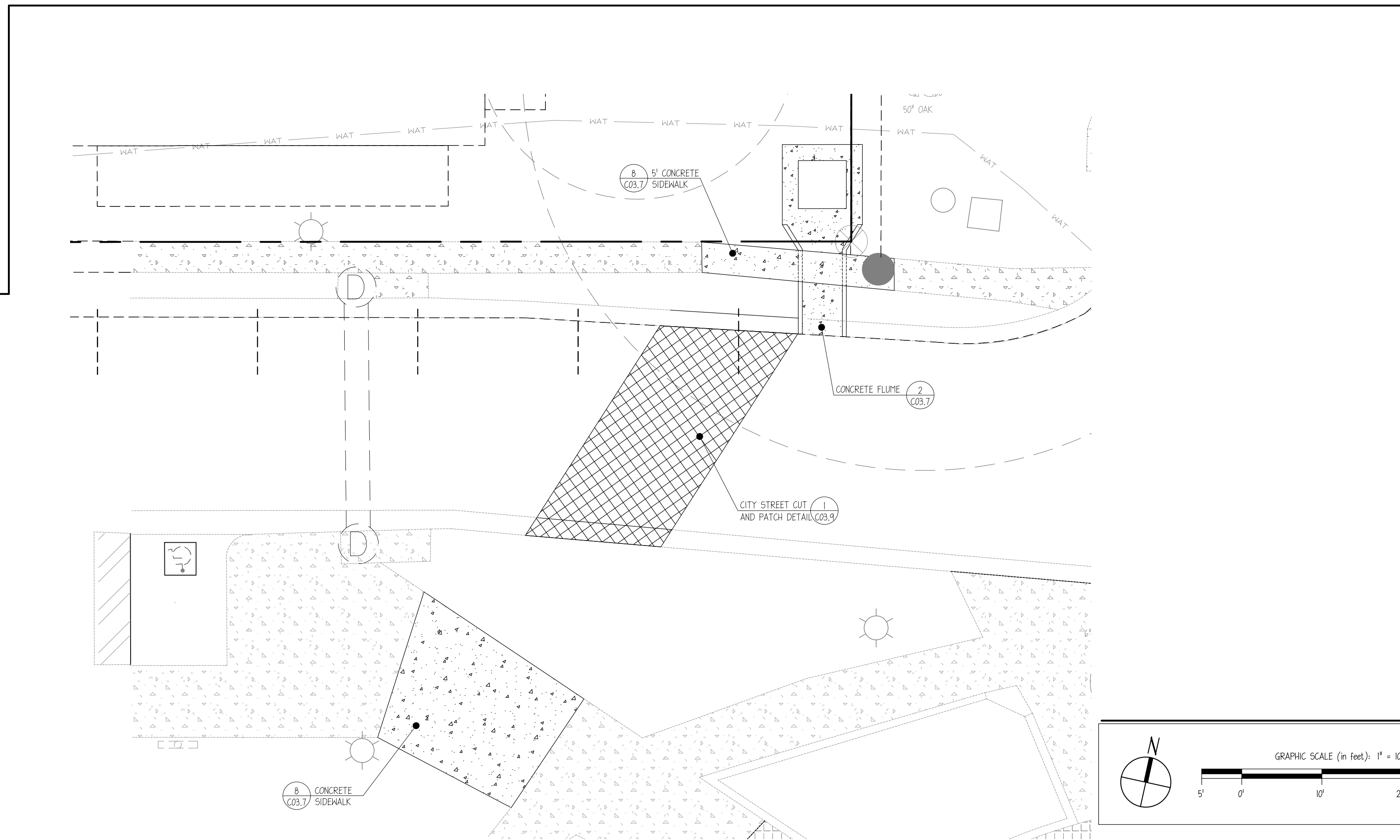
**CONCRETE NOTES:**

- $f_c = 4,000$  Psi
- PROVIDE CONTROL JOINTS AT 5' O.C.
- PROVIDE EXPANSION JOINTS ONLY WHERE CONCRETE PAVEMENT ADJUTS FIXED OBJECTS, CURB AND GUTTER, AND OTHER PAVEMENT TYPES.
- 6"x6" W/MF MAY BE SUBSTITUTED WITH EQUIVALENT STRENGTH FIBER MESH.

SLOPE FLUME ACCORDING TO GRADING AND DRAINAGE PLAN

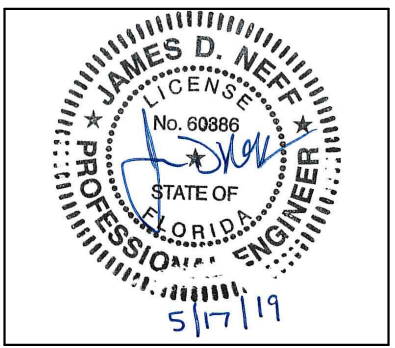


2 CONCRETE FLUME NTS



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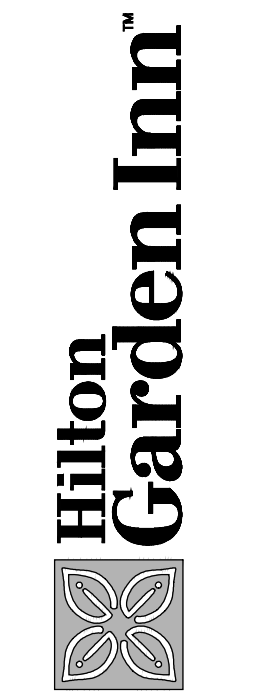
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 TAMPA, FL 33618  
 813.387.0084



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REVISION HISTORY	
1	ISSUE FOR PERMIT/PRICING
2	ISSUE FOR PERMIT/PRICING
3	ISSUE FOR PERMIT/PRICING
4	ISSUE FOR PERMIT/PRICING
5	ISSUE FOR PERMIT/PRICING
6	ISSUE FOR PERMIT/PRICING
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8	ISSUE FOR PERMIT/PRICING
9	ISSUE FOR PERMIT/PRICING
10	ISSUE FOR PERMIT/PRICING

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PROJ # 170071  
 DWG NAME 170071 C03.DWG  
 ISSUE DATE 05/17/2014  
 PROJ TDR: J1

HARDSCAPE DETAILS III

C03.9  
 SHEET NUMBER

ISSUE FOR PERMIT/PRICING

**ECUA Engineering Manual Reference Note\***

\*Note shall be inserted in the upper right corner of title sheet

\*applicable only to ECUA infrastructure to be constructed in public ROW or in utility easement; not to be applied to private water/sewer facilities on private property (see Building Code)

**A. ECUA Engineering Manual Incorporated by Reference**

The ECUA Engineering Manual, dated December 18, 2014, along with Update # 1 dated September 1, 2016 (hereinafter "Manual"), located at [www.ecua.fl.gov](http://www.ecua.fl.gov), is hereby incorporated by reference into this Project's official contract documents as if fully set forth therein. It is the Contractor's responsibility to be knowledgeable of the Manual's contents and to construct the Project in accordance with the Manual. The Contractor shall provide its employees access to the Manual at all times, via Project site or office, via digital or paper format. In the event of a conflict between the Manual and Plans, Contractor shall consult Engineer of Record for proper resolution.

**B. Additional Documents (to be completed by the Engineer of Record)**

Does this Project have additional technical specifications or construction details that supplement and/or supersede the Manual listed above?  YES  NO. If yes, Contractor shall construct Project in accordance with said documents as listed and located below:

Document Name	Document Type		Location	
	Specification	Detail	Plans	Project Manual*
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**\*Project Manuals used only with ECUA CIP Projects**

**C. Engineer of Record Responsibilities**

The Engineers of Record (EORs) that have affixed their seals and signatures on these plans warrant their portions of the plans have been designed in accordance with the Manual (unless otherwise directed by the ECUA Project Engineer). The EORs shall be knowledgeable of the Manual's contents and shall assume responsibility for its use on this Project.

**GENERAL UTILITY NOTES**

- SEE SHEET C01 FOR GENERAL NOTES.
- SEE MEP PLANS FOR CONTINUATION OF ALL UTILITIES INTO BUILDING.
- SANITARY LATERALS SHALL HAVE A MINIMUM FALL OF 1/8".
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND THEIR LOCATIONS AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION.
- THE FINAL LOCATION OF FIRE HYDRANTS, VALVES, WATER LINES, BACKFLOW PREVENTERS, ETC. SHALL BE DETERMINED DURING CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CHANGES TO LOCATION OR CONFIGURATION. NPFA CODES SHALL BE ADHERED TO.
- THE CONTRACTOR SHALL CONTACT PUBLIC UTILITIES INSPECTIONS AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY.
- ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH LOCAL GOVERNING CODES.
- UTILITY CONDUIT MATERIAL FOR ELECTRIC, TELEPHONE, AND CABLE SHALL BE INSTALLED PER UTILITY PROVIDER SPECIFICATIONS.
- CONTRACTOR TO BUILD CONCRETE TRANSFORMER PAD AND INSTALL (3) 5" PVC CONDUIT AND PULL STRING WITH SHEEPING BENDS.

CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL INSTALL GENERAL UTILITY CONDUITS TO PLANTERS AROUND BUILDING. SEE ARCHITECTURAL/MEP PLANS FOR CONTINUATION.



THE CITY OF PENSACOLA PUBLIC WORKS AND FACILITIES DEPARTMENT SHALL BE INVITED TO ANY PRE-CONSTRUCTION MEETING(S) TO ADDRESS EXPECTATIONS FOR WORK PERFORMED IN CITY ROW AND/OR CITY OWNED PROPERTY.

**UTILITY LEGEND**

UTILITY	LINE TYPE/SYMBOL	REFERENCE
DOMESTIC WATER LINE	— DW — DW —	4" PVC
FIRE WATER LINE	— FW — FW —	8" DIP
BUILDING FIRE SPRINKLER LINE	— FWS — FWS —	4" DIP
IRRIGATION WATER LINE	— IRR — IRR —	2" SDR 21 PVC
DOMESTIC WATER METER (WM)	— WM —	(3") DETAIL 1, SHEET C04.4
IRRIGATION METER (IRM)	— IRM —	(2") DETAIL 1, SHEET C04.4
BACKFLOW PREVENTER (RPZ)	— RPZ —	DETAIL 2, SHEET C04.2
FIRE VAULT (DDC)	— DDC —	NOT APPLICABLE
DCDA BACKFLOW PREVENTER	— DCDA —	DETAIL 4, SHEET C04.4
WATER TAP OR TEE	— T —	DETAIL 4, SHEET C04.2
GATE VALVE (GV)	— GV —	DETAIL 3, SHEET C04.3
THRUST BLOCK (TB)	— TB —	DETAIL 2, SHEET C04.3
FIRE HYDRANT (FH)	— FH —	DETAIL 4, SHEET C04.3
FIRE DEPARTMENT CONNECTION (FDC)	— FDC —	SEE ARCH. PLANS
SANITARY SEWER (SS)	— SS — SS —	6" PVC
SANITARY MANHOLE (SSMH)	— SSMH —	DETAIL 1, SHEET C04.3
GENERAL CLEAN OUT (CO)	— CO —	DETAIL 3, SHEET C04.2
SAMPLING MANHOLE	— SM —	DETAIL 1, SHEET C04.3
SANITARY STRUCTURE NUMBER	— SN —	SEE PLANS
UNDERGROUND ELECTRIC LINE-PRIMARY	— UGE-P — UGE-P —	(3) 5" PVC
UNDERGROUND ELECTRIC LINE-SECONDARY	— UGE-S — UGE-S —	(3) 5" PVC
POST INDICATOR VALVE	— PIV —	NOT APPLICABLE
SITE LIGHTING POLE	— L —	SEE ARCH. PLANS
TRANSFORMER PAD	— TP —	DETAIL 10, SHEET C03.7
METER/CT PEDESTAL	— CT —	NOT APPLICABLE
UNDERGROUND TELEPHONE LINE	— UGT — UGT —	(2) 4" PVC
GENERAL UTILITY CONDUIT	— GU — GU —	(2) 2" PVC
GAS LINE	— G — G —	2" HDPE
GAS METERS	— GM —	2"

\*\* ALL UTILITIES SHALL BE INSTALLED ACCORDING TO UTILITY PROVIDERS AND JURISDICTION STANDARDS AND SPECIFICATIONS.

**UTILITY INFORMATION**

WATER				
	GC	OWNER	UTILITY	ADDITIONAL NOTES
LINE EXTENSION TO PROPERTY LINE				N/A
PIPING FROM PROPERTY LINE TO BUILDING				
TAPPING THE MAIN				
WATER VAULT				
WATER (METER) PIT				
DOMESTIC METER				
FIRE METER				
IRRIGATION METER				
DOMESTIC BFP				
FIRE BFP				
IRRIGATION BFP				
OBTAINING EASEMENTS				
OBTAINING ROW WORK PERMITS				

SANITARY SEWER				
	GC	OWNER	UTILITY	ADDITIONAL NOTES
TAPPING OF THE MAIN				
LINE EXTENSION SERVICE LATERAL (INSIDE PROPERTY)				N/A
OBTAINING EASEMENTS				
OBTAINING ROW PERMIT				

ELECTRIC				
	GC	OWNER	UTILITY	ADDITIONAL NOTES
PRIMARY CONDUIT				
PRIMARY CABLE				
PRIMARY FINAL CONNECTION				
TRANSFORMER				
TRANSFORMER PAD				
POLE				N/A
SECONDARY CABLE				
SECONDARY CONDUIT				
SECONDARY FINAL INSPECTION				
METER				
CT CABINET				
CT METER CONDUIT				
SOCKET				
OBTAINING EASEMENTS				
ROW WORK PERMITS				

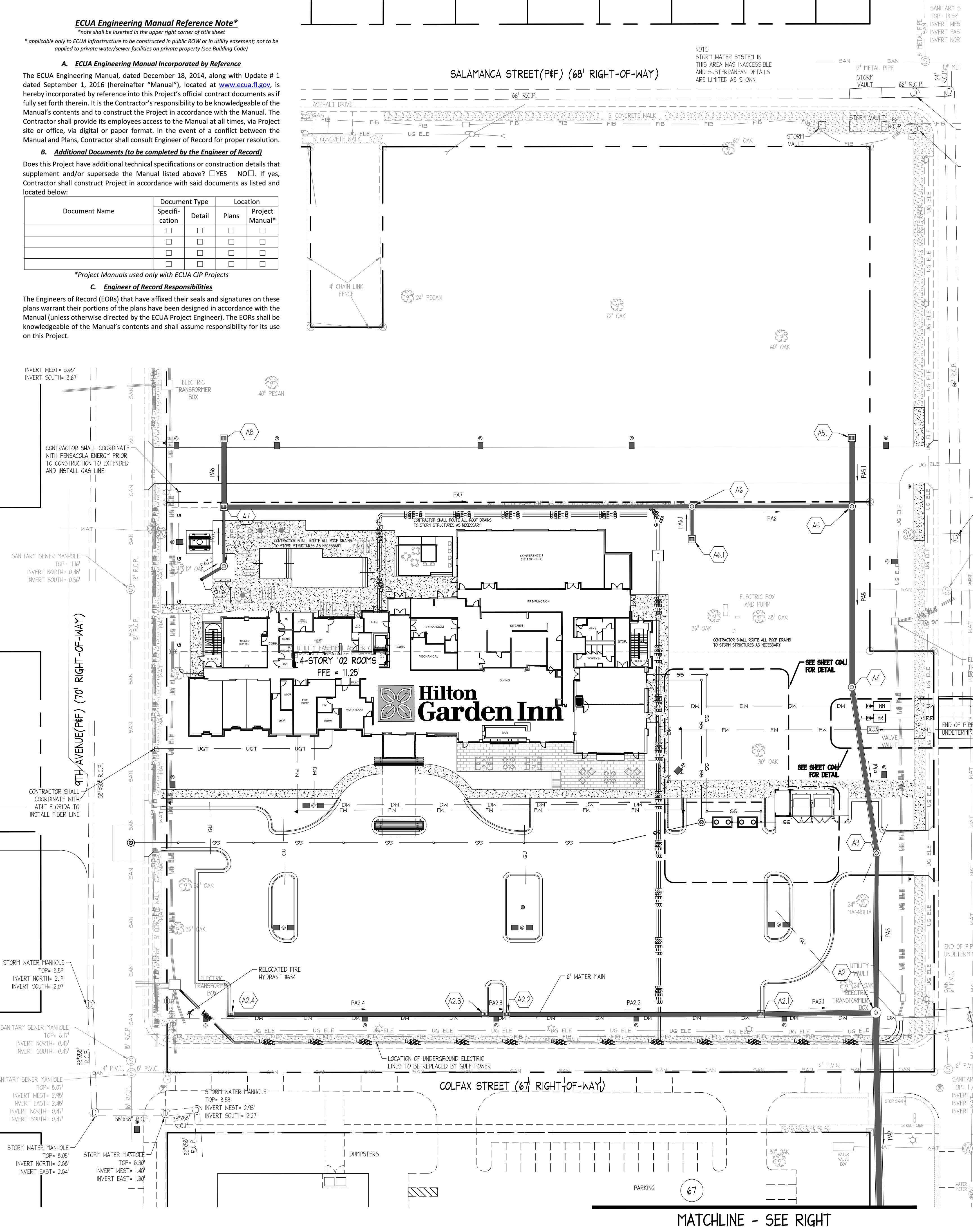
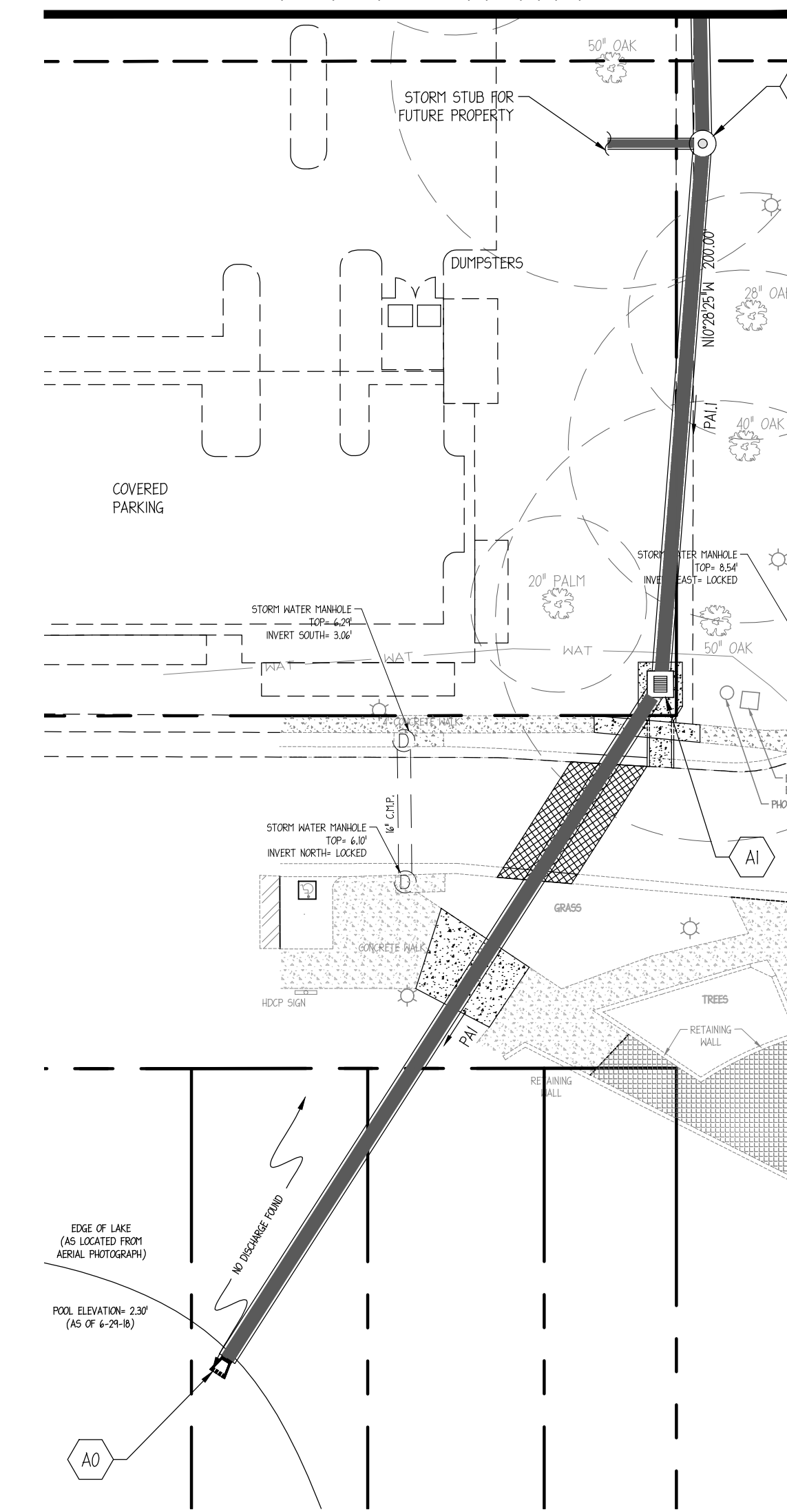
TELEPHONE				
	GC	OWNER	UTILITY	ADDITIONAL NOTES
CONDUIT				
TRENCH & BACKFILL				
CABLE & WIRE				
OBTAINING EASEMENTS				
OBTAINING ROW WORK PERMITS				

GAS				
	GC	OWNER	UTILITY	ADDITIONAL NOTES
TAP				
PIPING				
TRENCH AND BACKFILL				
METER				
REGULATOR				
OBTAINING EASEMENTS				
OBTAINING ROW WORK PERMITS				

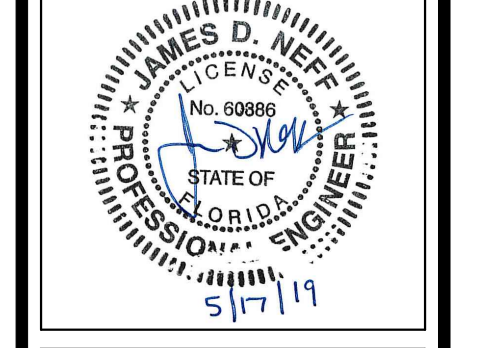
**STRUCTURE A1, A0, AND PIPE PAI NOTES**

STRUCTURE A1, PIPE PA1, AND STRUCTURE A0 TO BE OWNED AND MAINTAINED BY THE CITY OF PENSACOLA. THE CONTRACTOR SHALL REMEDY ANY DEFECTS IN THE WORK AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THEREFROM WHICH SHALL APPEAR WITHIN A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK UNLESS A LONGER PERIOD IS SPECIFIED. THE CITY WILL GIVE NOTICE OF OBSERVED DEFECTS WITH REASONABLE PROMPTNESS.

**MATCHLINE - SEE LEFT**



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PLANNING & ENGINEERING  
14891 N DALE HARRY HWY  
SUITE 250  
TAMPA, FL 33648  
813.397.0054  
WWW.INGENIUMENTERPRISES.COM



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HILTON GARDEN INN  
EAST SALAMANCA STREET  
PENSACOLA, FLORIDA



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ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

**REVISION HISTORY**

1	ISSUE	05/17/2024
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PROJ # 170071  
DWG NAME 170071\_C04.DWG  
ISSUE DATE 05/17/2024  
PROJ PERM 121

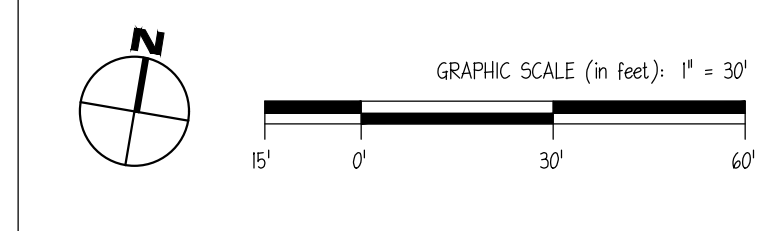
**UTILITY PLAN**

C04.0  
SHEET NUMBER

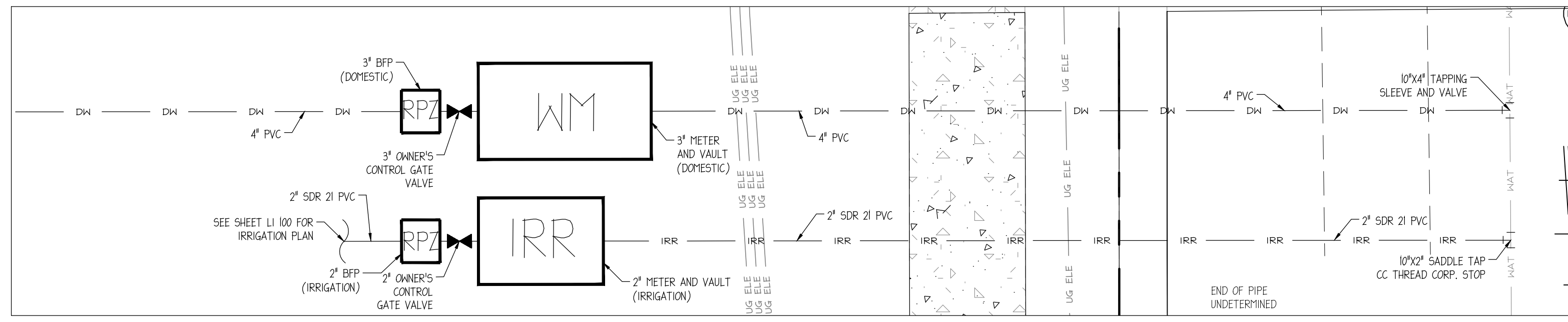
CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

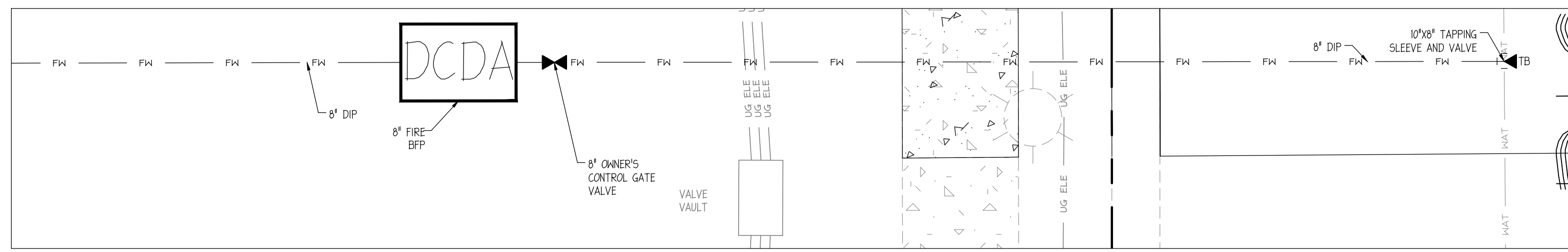
24-HOUR CONTACT:  
**GREG FOX**  
(404) 754-8842



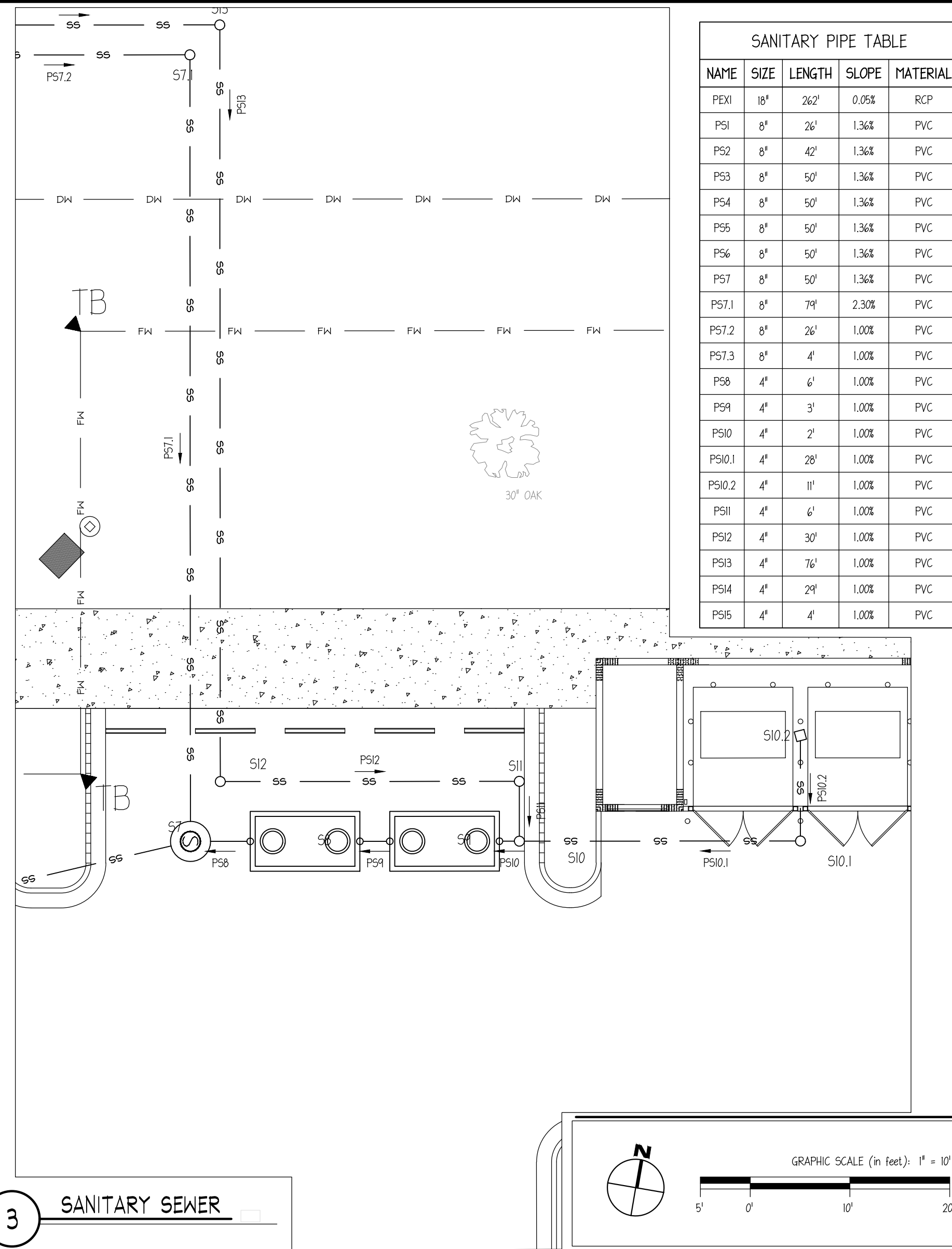
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1 WATER METER INSERT



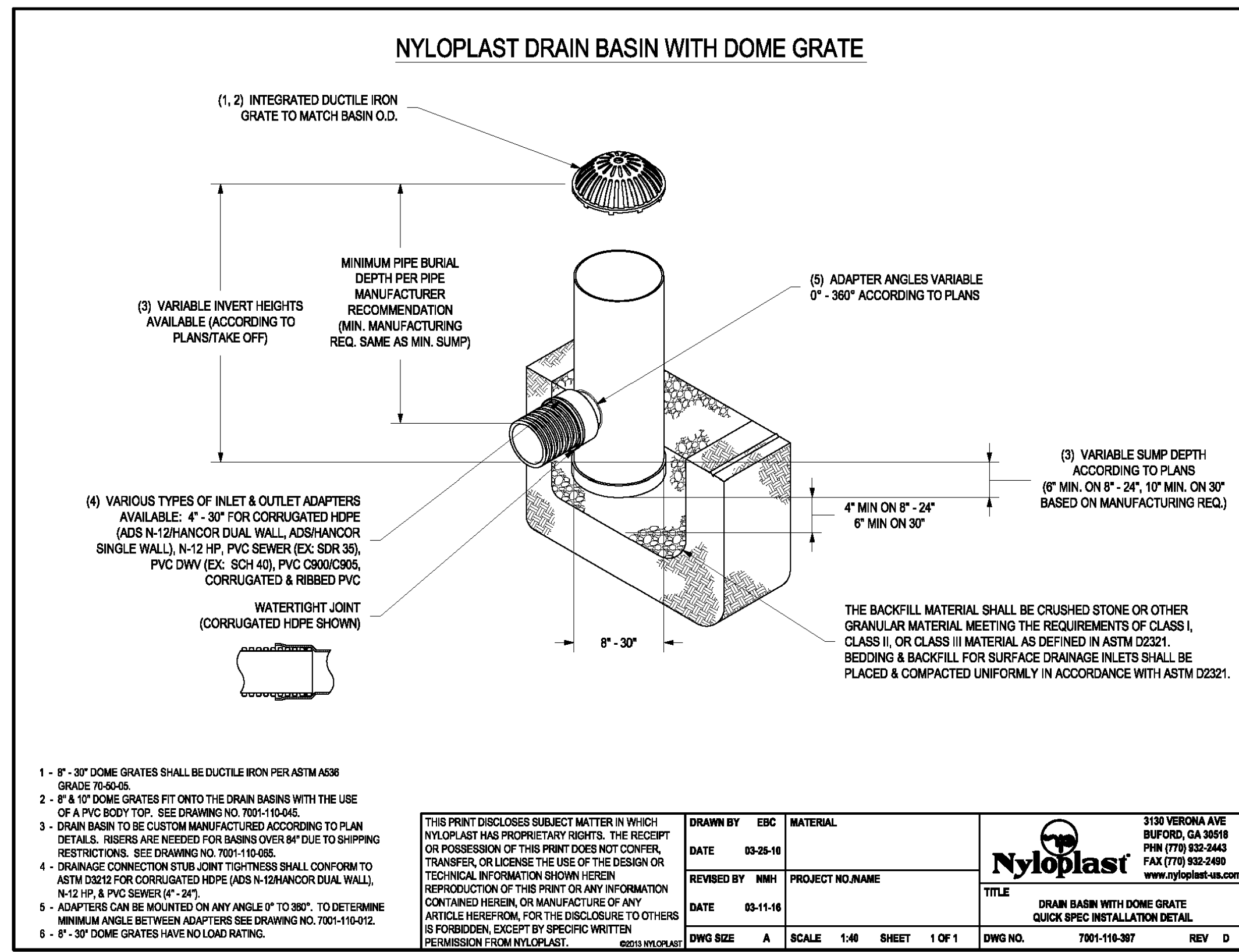
2 FIRE LINE INSERT



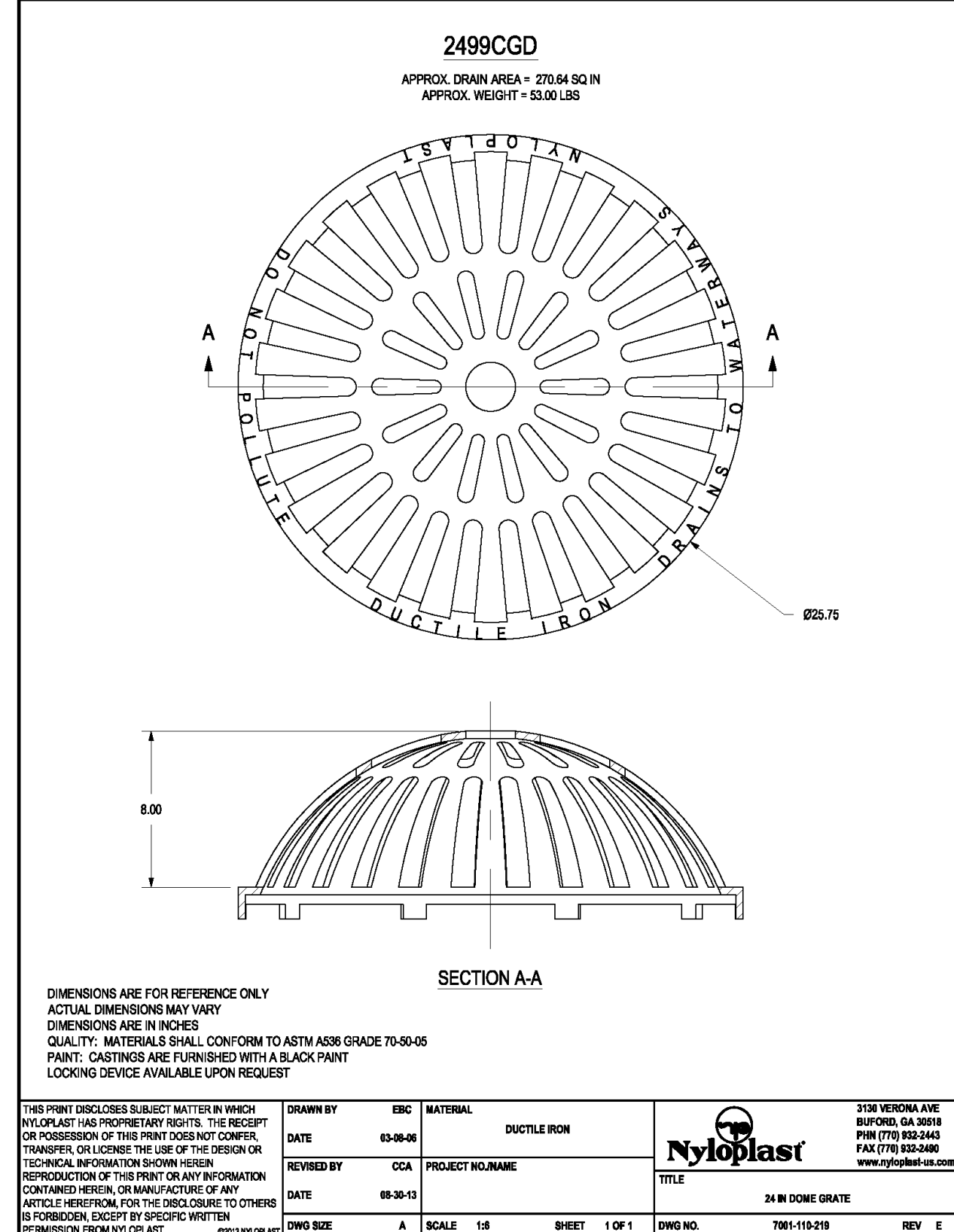
NAME	SIZE	LENGTH	SLOPE	MATERIAL
PS1	18"	262'	0.05%	RCP
PS1	8"	26'	1.36%	PVC
PS2	8"	42'	1.36%	PVC
PS3	8"	50'	1.36%	PVC
PS4	8"	50'	1.36%	PVC
PS5	8"	50'	1.36%	PVC
PS6	8"	50'	1.36%	PVC
PS7	8"	50'	1.36%	PVC
PS7.1	8"	79'	2.30%	PVC
PS7.2	8"	26'	1.00%	PVC
PS7.3	8"	4'	1.00%	PVC
PS8	4"	6'	1.00%	PVC
PS9	4"	3'	1.00%	PVC
PS10	4"	2'	1.00%	PVC
PS10.1	4"	28'	1.00%	PVC
PS10.2	4"	11'	1.00%	PVC
PS11	4"	6'	1.00%	PVC
PS12	4"	30'	1.00%	PVC
PS13	4"	76'	1.00%	PVC
PS14	4"	29'	1.00%	PVC
PS15	4"	4'	1.00%	PVC

STRUCTURE NAME	STRUCTURE TYPE	RIM ELEVATION	INVERT IN	INVERT OUT
EX1	EXISTING SANITARY MANHOLE	3.91		0.56 (PE1)
EX2	EXISTING SANITARY MANHOLE	3.78	0.43 (PE1)	
50	DOG HOUSE MANHOLE DETAIL 1, SHEET CO4.3	9.36	1.32 (PS1)	
51	8" CLEANOUT DETAIL 3, SHEET CO4.2	9.90	1.68 (PS2)	1.68 (PS1)
52	8" CLEANOUT DETAIL 3, SHEET CO4.2	9.17	2.25 (PS3)	2.25 (PS2)
53	8" CLEANOUT DETAIL 3, SHEET CO4.2	10.00	2.93 (PS4)	2.93 (PS3)
54	8" CLEANOUT DETAIL 3, SHEET CO4.2	10.29	3.61 (PS5)	3.61 (PS4)
55	8" CLEANOUT DETAIL 3, SHEET CO4.2	10.23	4.29 (PS6)	4.29 (PS5)
56	8" CLEANOUT DETAIL 3, SHEET CO4.2	10.23	4.97 (PS7)	4.97 (PS6)
57	MANHOLE DETAIL 1, SHEET CO4.3	10.34	5.65 (PS7.1)	5.65 (PS7)
57.1	8" CLEANOUT DETAIL 3, SHEET CO4.2	12.00	7.46 (PS7.2)	7.46 (PS7.1)
57.2	8" CLEANOUT DETAIL 3, SHEET CO4.2	11.14	7.71 (PS7.3)	7.71 (PS7.2)
57.3	BUILDING STUB	11.20		7.75 (PS7.3)
58	1,000 GALLON GREASE TRAP DETAIL 2, SHEET CO4.6	10.34		
58-IN	GREASE STUB IN	10.34	6.14 (PS9)	
58-OUT	GREASE STUB OUT	10.34		6.03 (PS8)
59	1,000 GALLON GREASE TRAP DETAIL 2, SHEET CO4.6	10.34		
59-IN	GREASE STUB IN	10.34	6.28 (PS10)	
59-OUT	GREASE STUB OUT	10.34		6.17 (PS9)
510	4" CLEANOUT DETAIL 3, SHEET CO4.2	10.34	6.30 (PS10.1)	6.30 (PS10)
510.1	4" CLEANOUT DETAIL 3, SHEET CO4.2	10.49	6.58 (PS10.2)	6.58 (PS10.1)
510.2	DUMPSTER DRAIN DETAIL 5, SHEET CO4.2	10.55		6.69 (PS10.2)
511	4" CLEANOUT DETAIL 3, SHEET CO4.2	10.54	6.36 (PS12)	6.36 (PS11)
512	4" CLEANOUT DETAIL 3, SHEET CO4.2	10.54	6.66 (PS13)	6.66 (PS12)
513	4" CLEANOUT DETAIL 3, SHEET CO4.2	13.00	7.42 (PS14)	7.42 (PS13)
514	4" CLEANOUT DETAIL 3, SHEET CO4.2	11.14	7.71 (PS15)	7.71 (PS14)
515	BUILDING STUB	11.20		7.75 (PS15)

3 SANITARY SEWER



4 LANDSCAPE DRAIN



**Section 2721**  
**Engineered Surface Drainage Products**

**GENERAL**  
PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

**MATERIALS**  
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

**INSTALLATION**  
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

<p>1 - 8", 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.</p> <p>2 - 8" &amp; 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-10-04S.</p> <p>3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 8" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-10-06S.</p> <p>4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12HANCOR DUAL WALL), N-12 HP, PVC SEWER (EX. SDR 35), PVC DWV (EX. SDR 40), PVC C900/C905, CORRUGATED &amp; RIBBED PVC.</p> <p>5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-02.</p> <p>6 - 8", 30" DOME GRATES HAVE NO LOAD RATING.</p>	<p>THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONVEY, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. ©2013 NYLOPLAST.</p>	<p>3130 VERONA AVE BURLINGAME, CA 94010 PH (770) 933-2440 FAX (770) 933-2490 www.nyloplast.com</p>
<p>DRAWN BY: EJC DATE: 03-25-16</p> <p>REVISOR: NMH DATE: 03-11-16</p> <p>DWG SIZE: A SCALE: 1:40 SHEET: 1 OF 1 DWG NO.: 7001-110-07 REV: D</p>	<p>DRAWN BY: EJC DATE: 03-25-16</p> <p>REVISOR: COA DATE: 03-24-15</p> <p>DWG SIZE: A SCALE: 1:8 SHEET: 1 OF 1 DWG NO.: 7001-110-07 REV: E</p>	<p>3130 VERONA AVE BURLINGAME, CA 94010 PH (770) 933-2440 FAX (770) 933-2490 www.nyloplast.com</p>

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1449 N DALE HENRY HWY  
SUITE 250  
TAMPA, FL 33618  
813.367.0004  
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Hilton Garden Inn

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ONE ALLIANCE CENTER, 3500 LENOX ROAD, SUITE 625 ATLANTA, GEORGIA 30326 PHONE: (404) 497-4111

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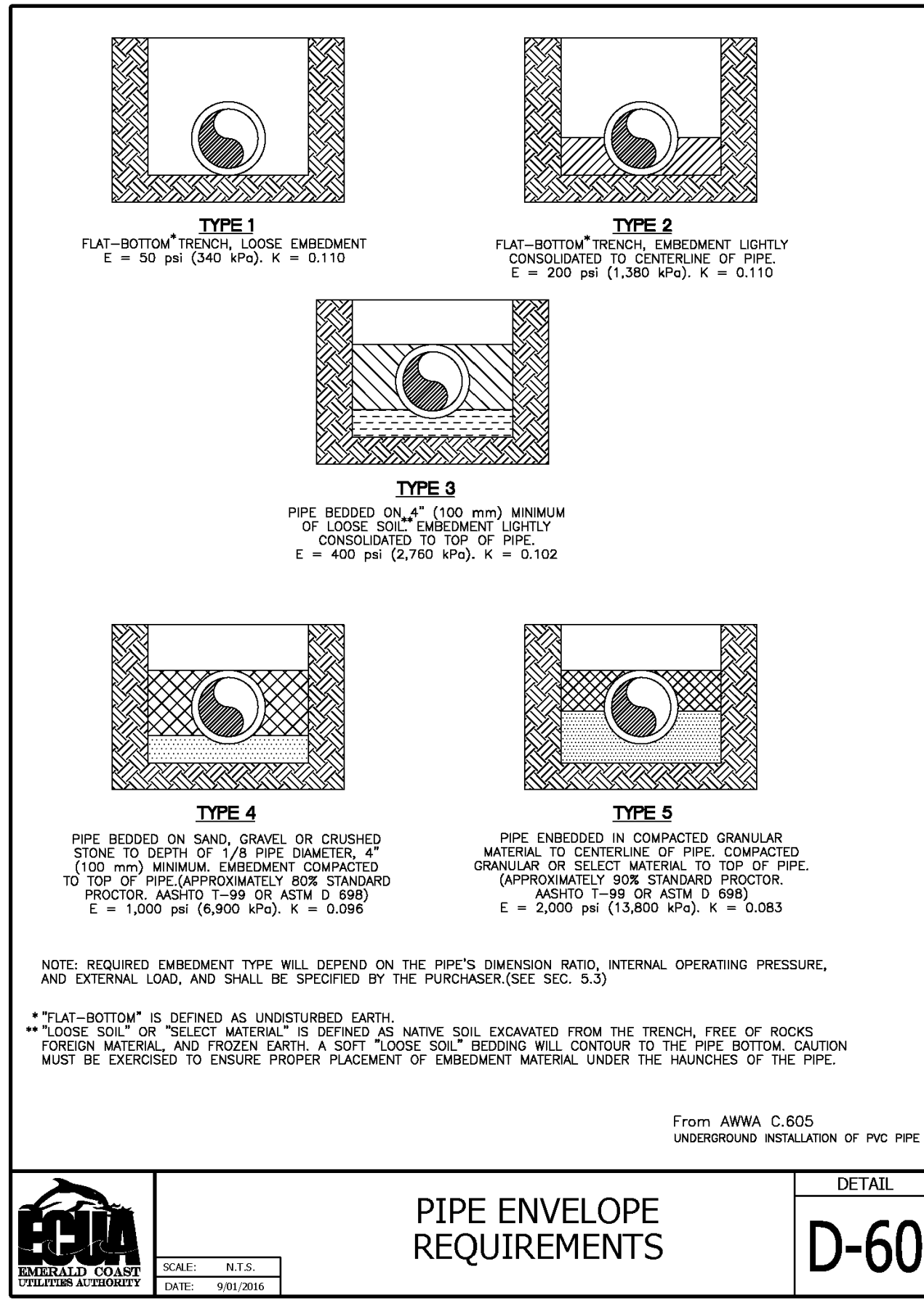
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DWG NAME 170071\_CO4.DWG  
ISSUE DATE 05/17/2014  
PROJECT TSGR\_31

UTILITY DETAILS I

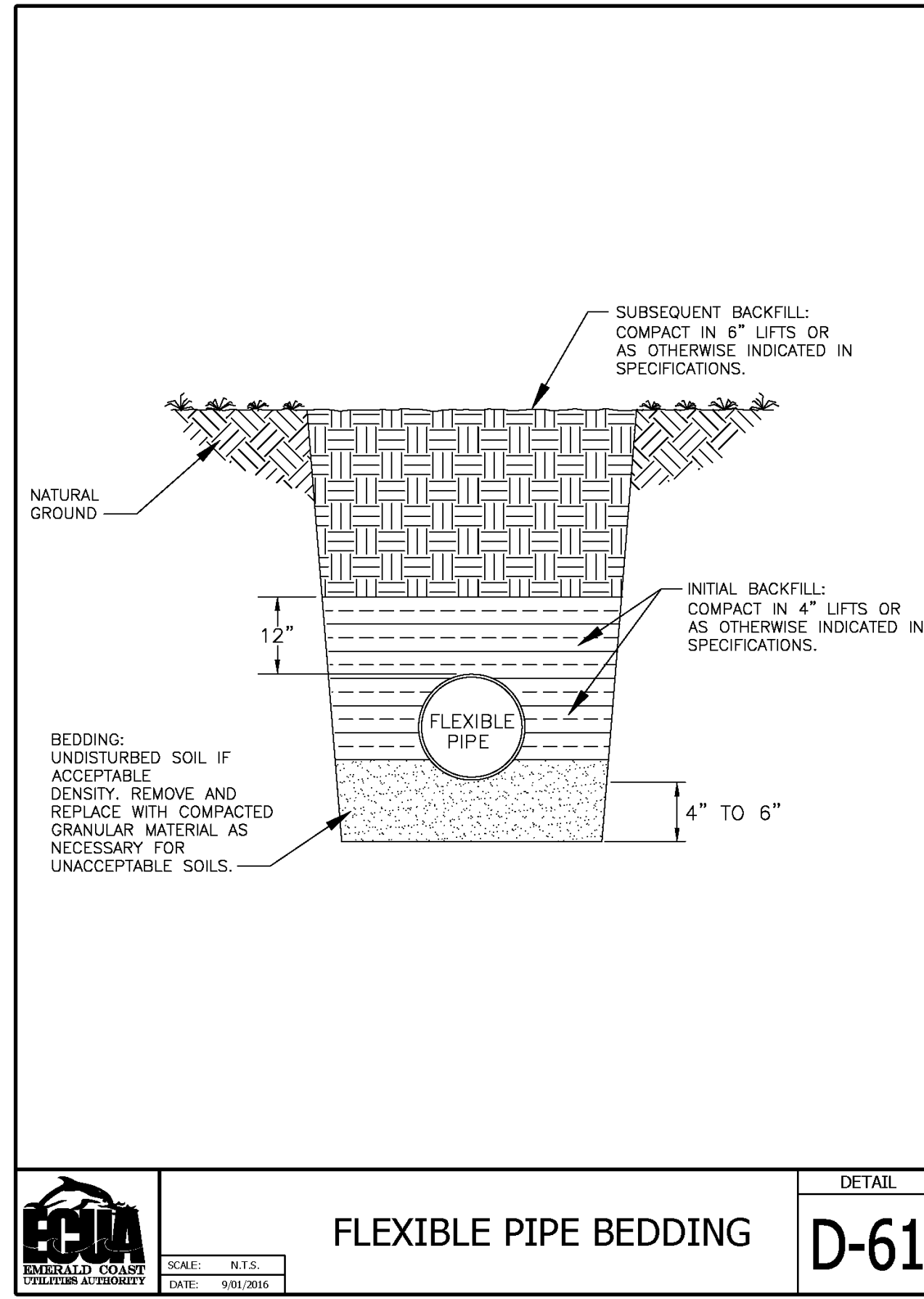
CO4.1  
SHEET NUMBER

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PIPE ENVELOPE REQUIREMENTS

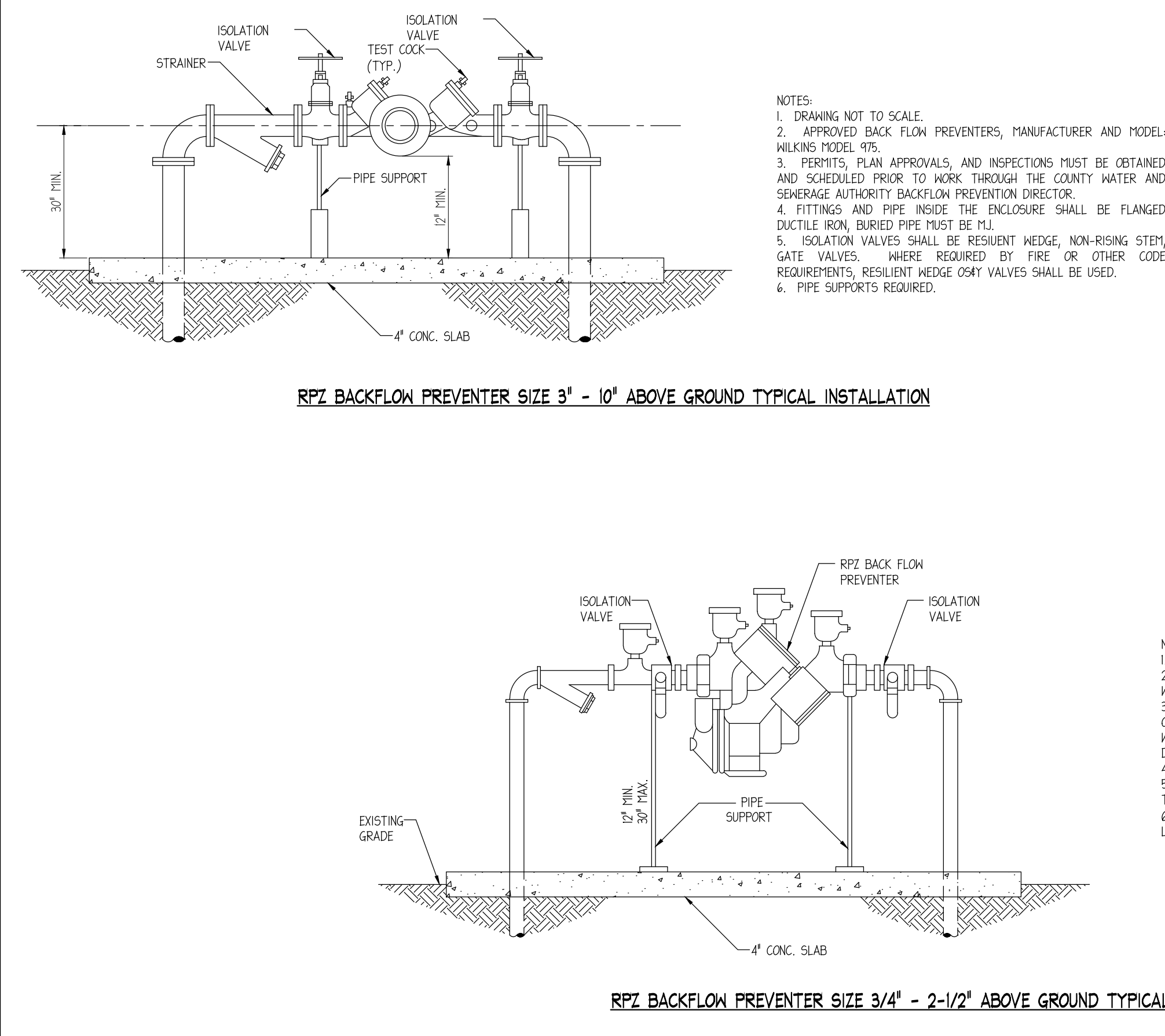
DETAIL  
D-60



FLEXIBLE PIPE BEDDING

DETAIL  
D-61

USE D-60 FOR DUCTILE IRON PIPES AND USE D-61 FOR FLEXIBLE OR COMPOSITE PIPES.

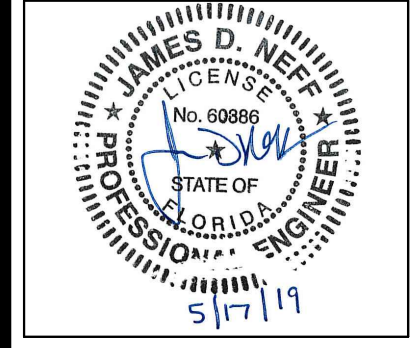


- NOTES:
- DRAWING NOT TO SCALE.
  - APPROVED BACK FLOW PREVENTERS, MANUFACTURER AND MODEL: WILKINS MODEL 975.
  - PERMITS, PLAN APPROVALS, AND INSPECTIONS MUST BE OBTAINED AND SCHEDULED PRIOR TO WORK THROUGH THE COUNTY WATER AND SEWERAGE AUTHORITY BACKFLOW PREVENTION DIRECTOR.
  - FITTINGS AND PIPE INSIDE THE ENCLOSURE SHALL BE FLANGED DUCTILE IRON, BURIED PIPE MUST BE FL.
  - ISOLATION VALVES SHALL BE RESISTENT WEDGE, NON-RISING STEM, GATE VALVES, WHERE REQUIRED BY FIRE OR OTHER CODE REQUIREMENTS, RESISTENT WEDGE GATE VALVES SHALL BE USED.
  - PIPE SUPPORTS REQUIRED.

- NOTES:
- DRAWING NOT TO SCALE.
  - APPROVED BACKFLOW PREVENTERS, MANUFACTURER AND MODEL: WILKINS MODEL 975.
  - PERMITS, PLAN APPROVALS, AND INSPECTIONS MUST BE OBTAINED AND SCHEDULED PRIOR TO WORK THROUGH THE COUNTY WATER AND SEWERAGE AUTHORITY BACKFLOW PREVENTION DIRECTOR.
  - FITTINGS AND PIPE SHALL BE SCHEDULE 40 GALVANIZED STEEL.
  - VALVES SHALL BE BRONZE, FULL PORT, BALL VALVES WITH TFE SEATS AND STAINLESS STEEL OPERATOR HANDLES.
  - PIPE SUPPORTS REQUIRED ON PIPING 1-1/2" IN DIAMETER AND LARGER.



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14491 N DALE HENRY HWY  
SUITE 250  
TAMPA, FL 33618  
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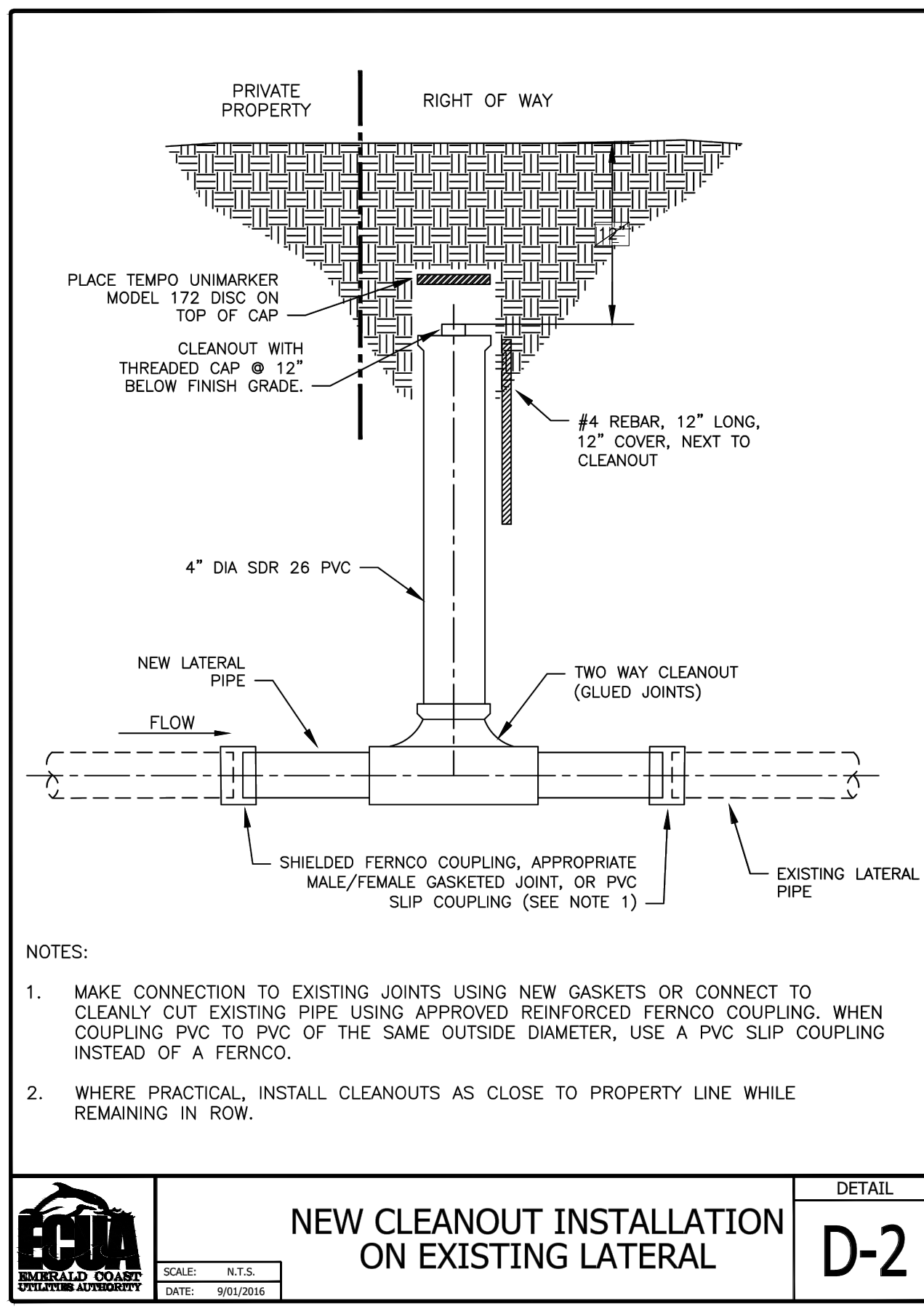
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UTILITY DETAILS II  
C04.2  
SHEET NUMBER

1 PIPE BEDDING NTS

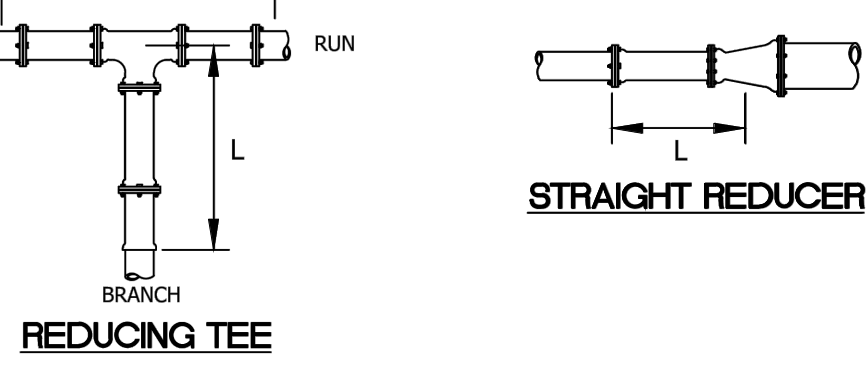
2 RPZ BACKFLOW PREVENTER NTS



NEW CLEANOUT INSTALLATION ON EXISTING LATERAL

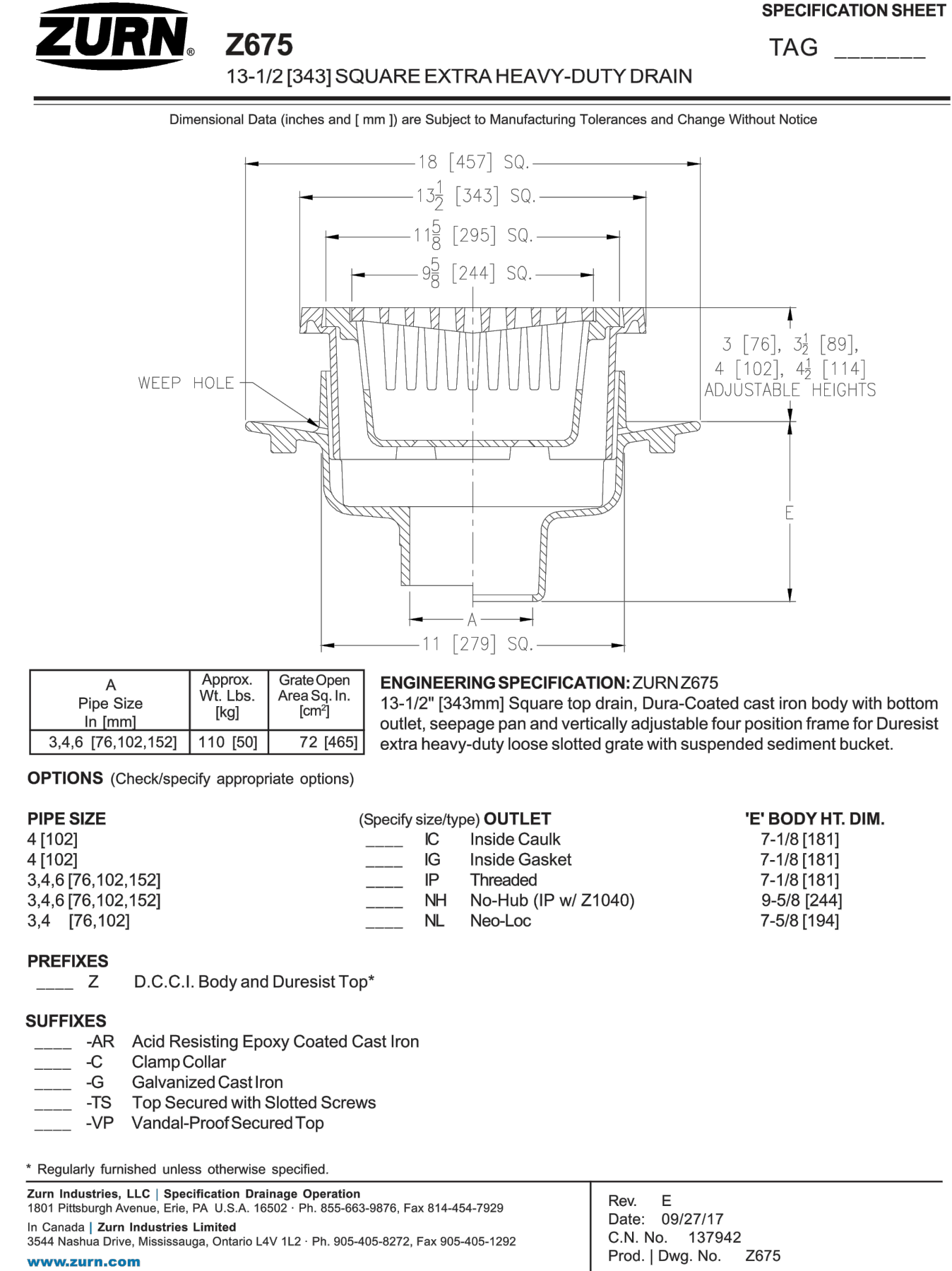
DETAIL  
D-2

PIPE DIAMETER (in)	DUCTILE IRON STRAIGHT REDUCERS										DUCTILE IRON REDUCING TEES									
	4	6	8	10	12	14	16	18	20	24	4	6	8	10	12	14	16	18	20	24
3	53	54	61	72	100	124	150	153	157	158	167	171	172	173	174	175	176	177	178	179
4	43	72	100	124	150	153	157	158	167	171	172	173	174	175	176	177	178	179	180	181
6	43	72	100	124	150	153	157	158	167	171	172	173	174	175	176	177	178	179	180	181
8	43	72	100	124	150	153	157	158	167	171	172	173	174	175	176	177	178	179	180	181
10	43	72	100	124	150	153	157	158	167	171	172	173	174	175	176	177	178	179	180	181
12	43	72	100	124	150	153	157	158	167	171	172	173	174	175	176	177	178	179	180	181
14	43	72	100	124	150	153	157	158	167	171	172	173	174	175	176	177	178	179	180	181
16	43	72	100	124	150	153	157	158	167	171	172	173	174	175	176	177	178	179	180	181
18	43	72	100	124	150	153	157	158	167	171	172	173	174	175	176	177	178	179	180	181
20	43	72	100	124	150	153	157	158	167	171	172	173	174	175	176	177	178	179	180	181



PIPE JOINT RESTRAINT REDUCERS & REDUCING TEES

DETAIL  
D-63



ENGINEERING SPECIFICATION: ZURN Z675  
13-1/2" [343mm] Square top drain, Dura-Coated cast iron body with bottom outlet, seepage pan and vertically adjustable four position frame for Duresist extra heavy-duty loose slotted grate with suspended sediment bucket.

A	Approx. Wt. Lbs. [kg]	Grate Open Area Sq. In. [cm²]
3,4,6 [76,102,152]	110 [50]	72 [465]

OPTIONS (Check/specify appropriate options)

PIPE SIZE	(Specify size/type) OUTLET	'E' BODY HT. DIM.
4 [102]	IC Inside Caulk	7-1/8 [181]
4 [102]	IG Inside Gasket	7-1/8 [181]
3,4,6 [76,102,152]	IP Threaded	7-1/8 [181]
3,4,6 [76,102,152]	NH No-Hub (IP w/ Z1040)	9-5/8 [244]
3,4 [76,102]	NL Neo-Loc	7-5/8 [194]

PREFIXES  
Z D.C.C.I. Body and Duresist Top\*

SUFFIXES  
-AR Acid Resisting Epoxy Coated Cast Iron  
-C Clamp Collar  
-G Galvanized Cast Iron  
-TS Top Secured with Slotted Screws  
-VP Vandal-Proof Secured Top

\* Regularly furnished unless otherwise specified.  
Zurn Industries, LLC | Specification Drainage Operation  
1801 Pittsburgh Avenue, Erie, PA, U.S.A. 16502 | Ph: 855-663-9876; Fax 814-464-7929  
In Canada | Zurn Industries Limited  
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 | Ph: 905-405-8272; Fax 905-405-1292  
www.zurn.com

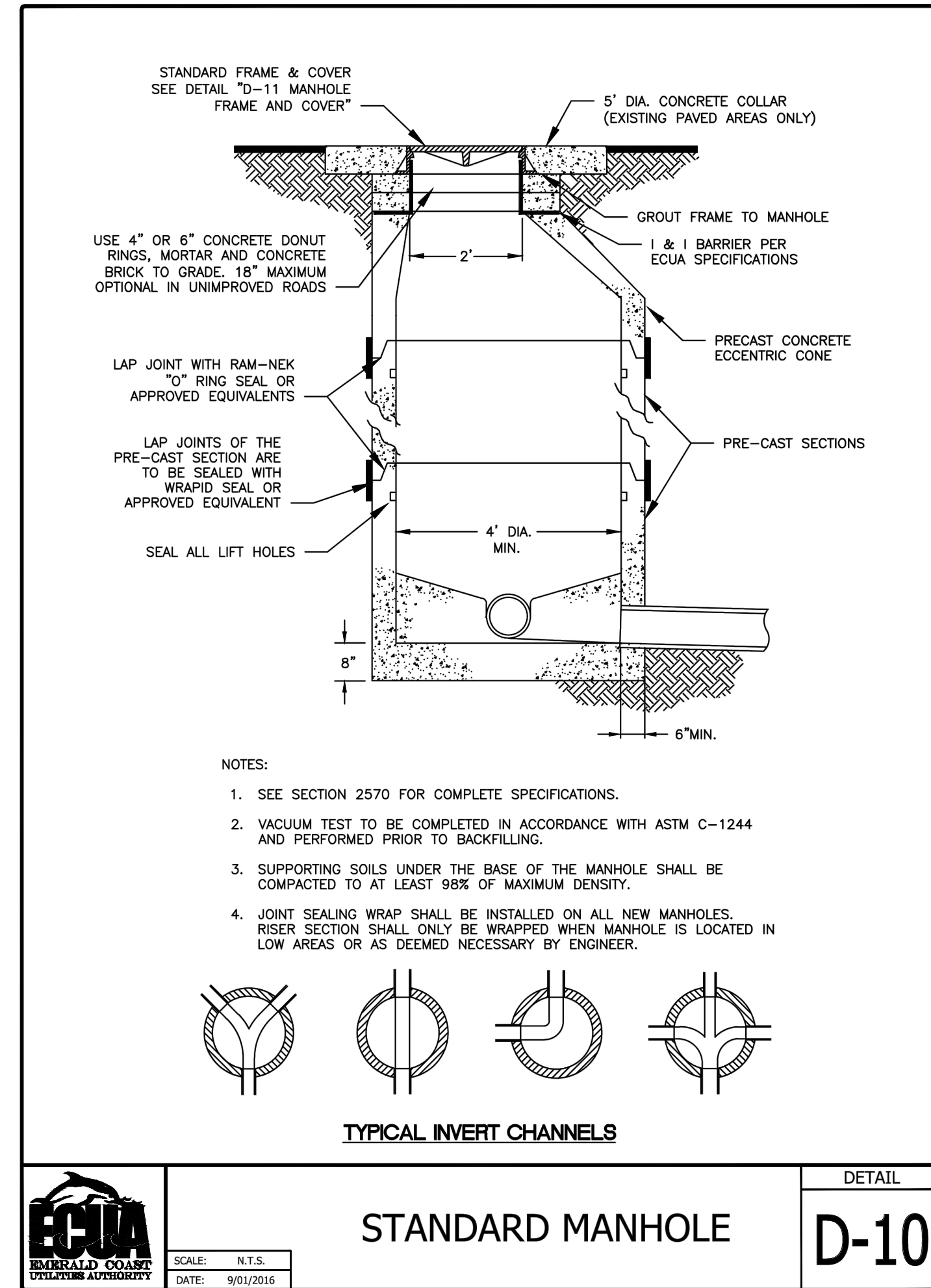
Rev. E  
Date: 09/27/17  
C.N. No. 137942  
Prod. | Dwg. No. Z675

3 CLEANOUT NTS

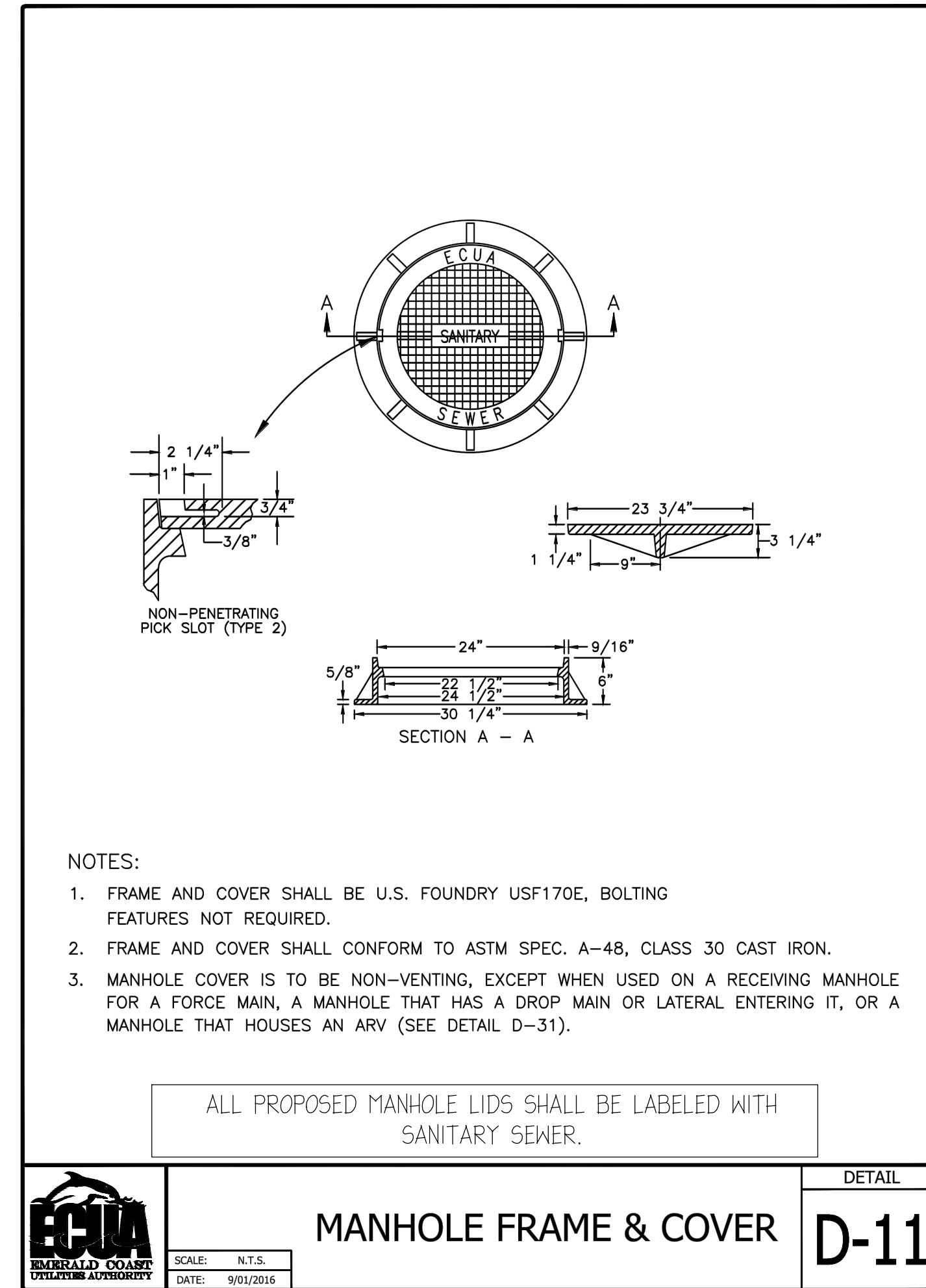
4 TEE JOINT NTS

5 DUMPSTER DRAIN NTS

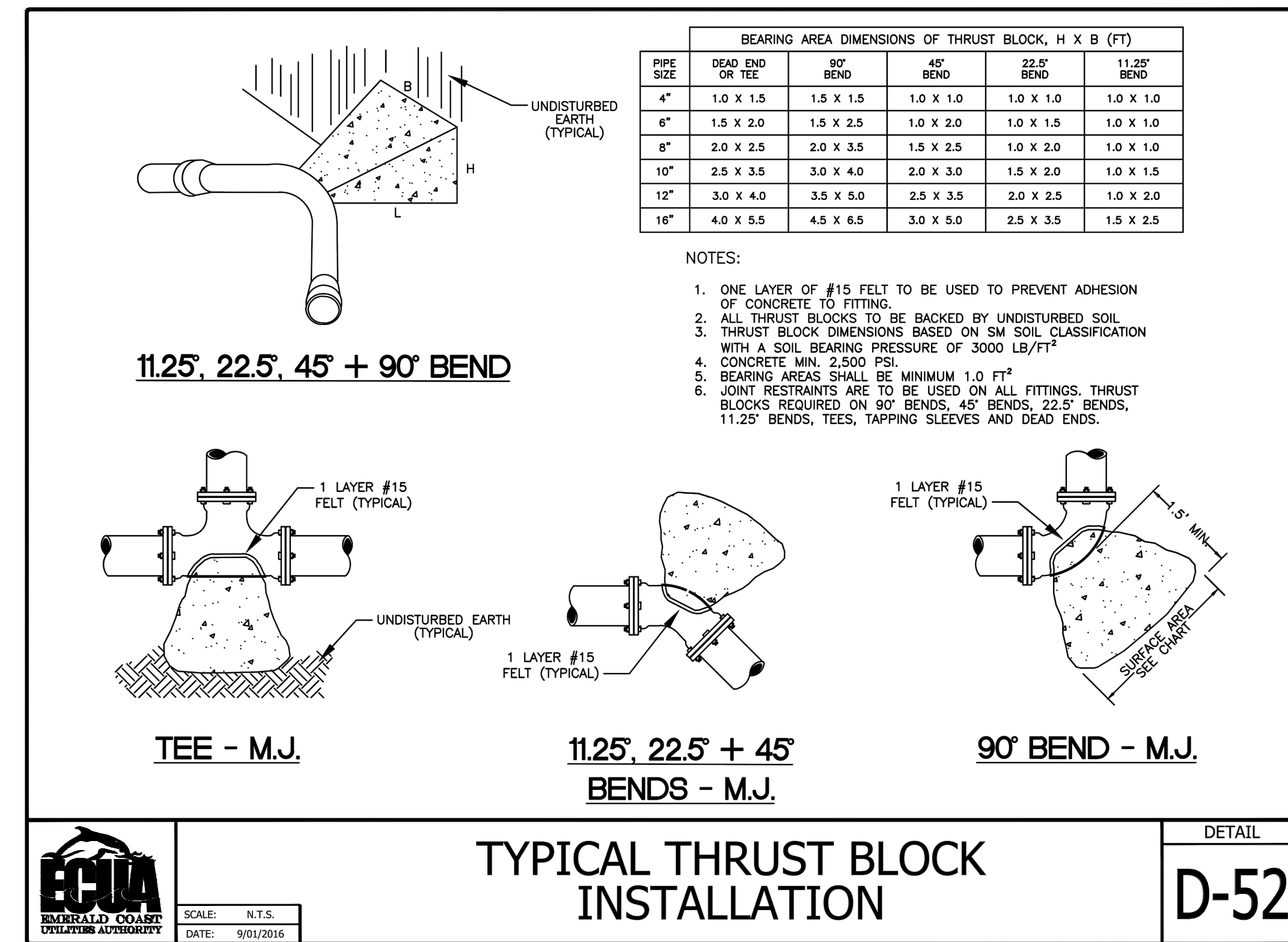
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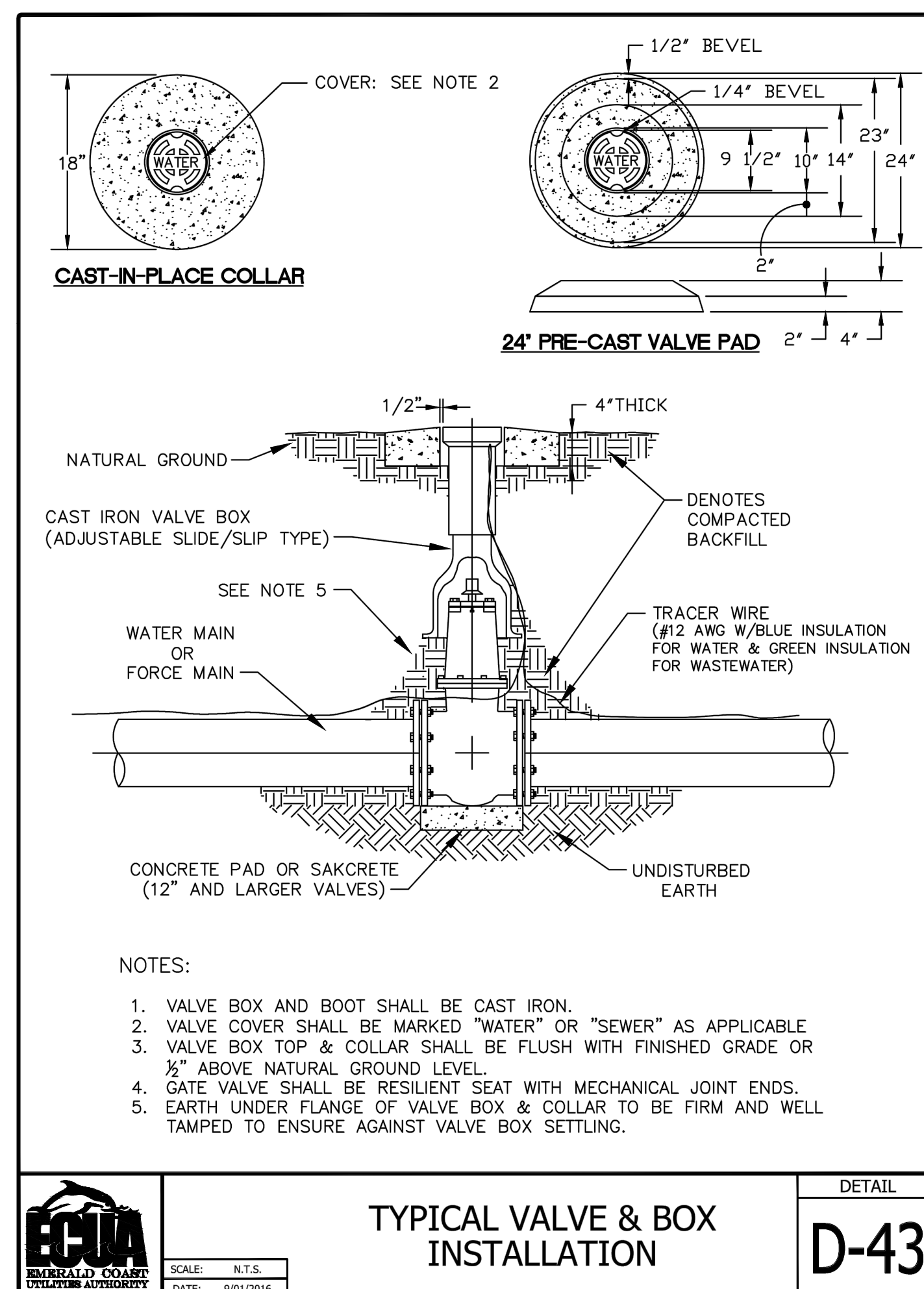
1 MANHOLE NTS



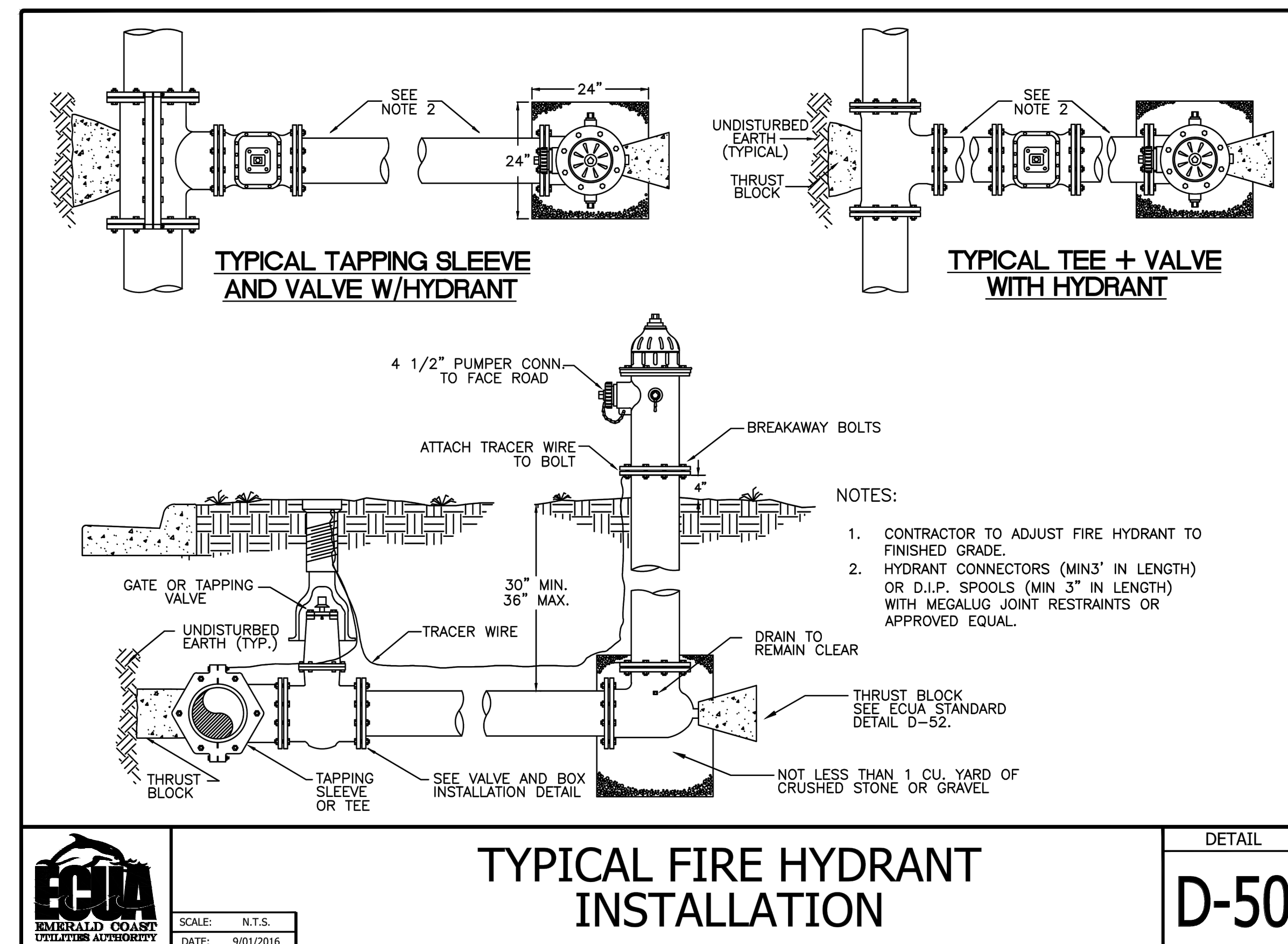
4 FIRE HYDRANT NTS



2 THRUST BLOCK NTS



3 VALVE INSTALLATION NTS

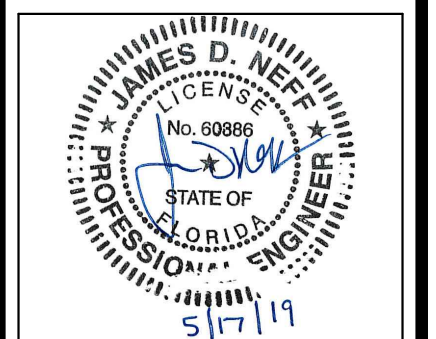


4 FIRE HYDRANT NTS



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3	05/17/2014	ISSUE FOR PERMIT/PRICING
4	05/17/2014	ISSUE FOR PERMIT/PRICING
5	05/17/2014	ISSUE FOR PERMIT/PRICING
6	05/17/2014	ISSUE FOR PERMIT/PRICING
7	05/17/2014	ISSUE FOR PERMIT/PRICING
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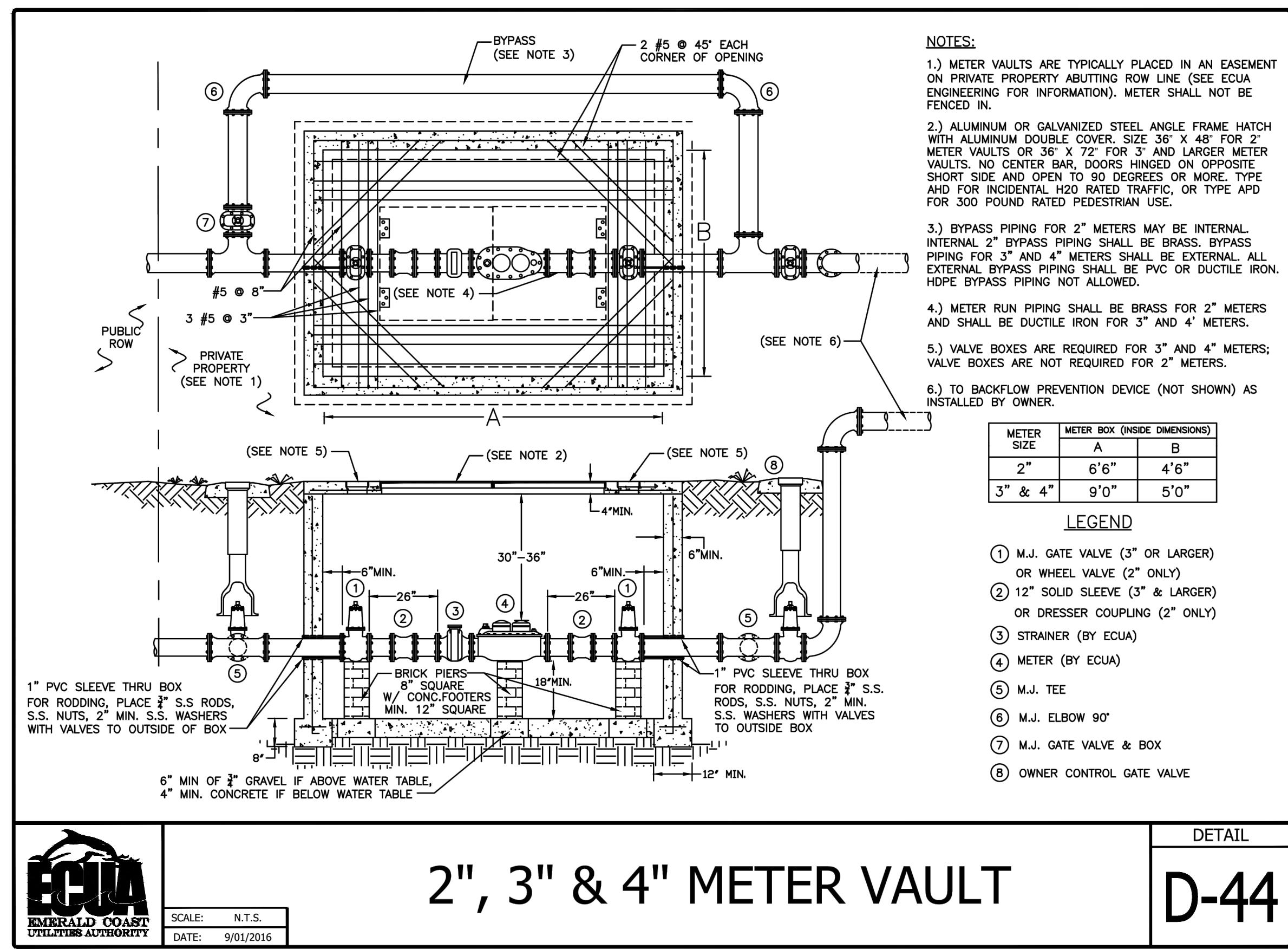
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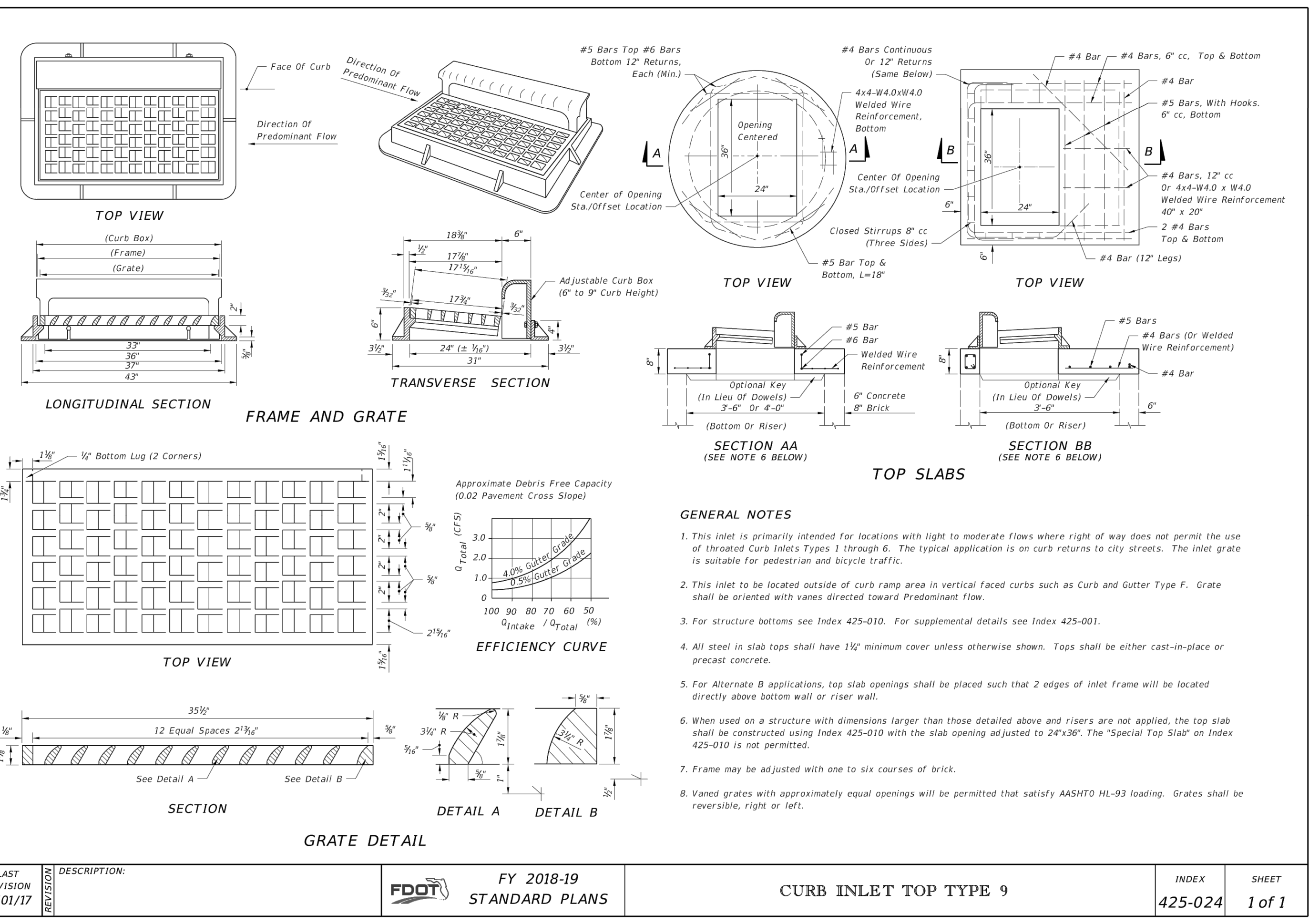
UTILITY DETAILS III

CO4.3  
SHEET NUMBER

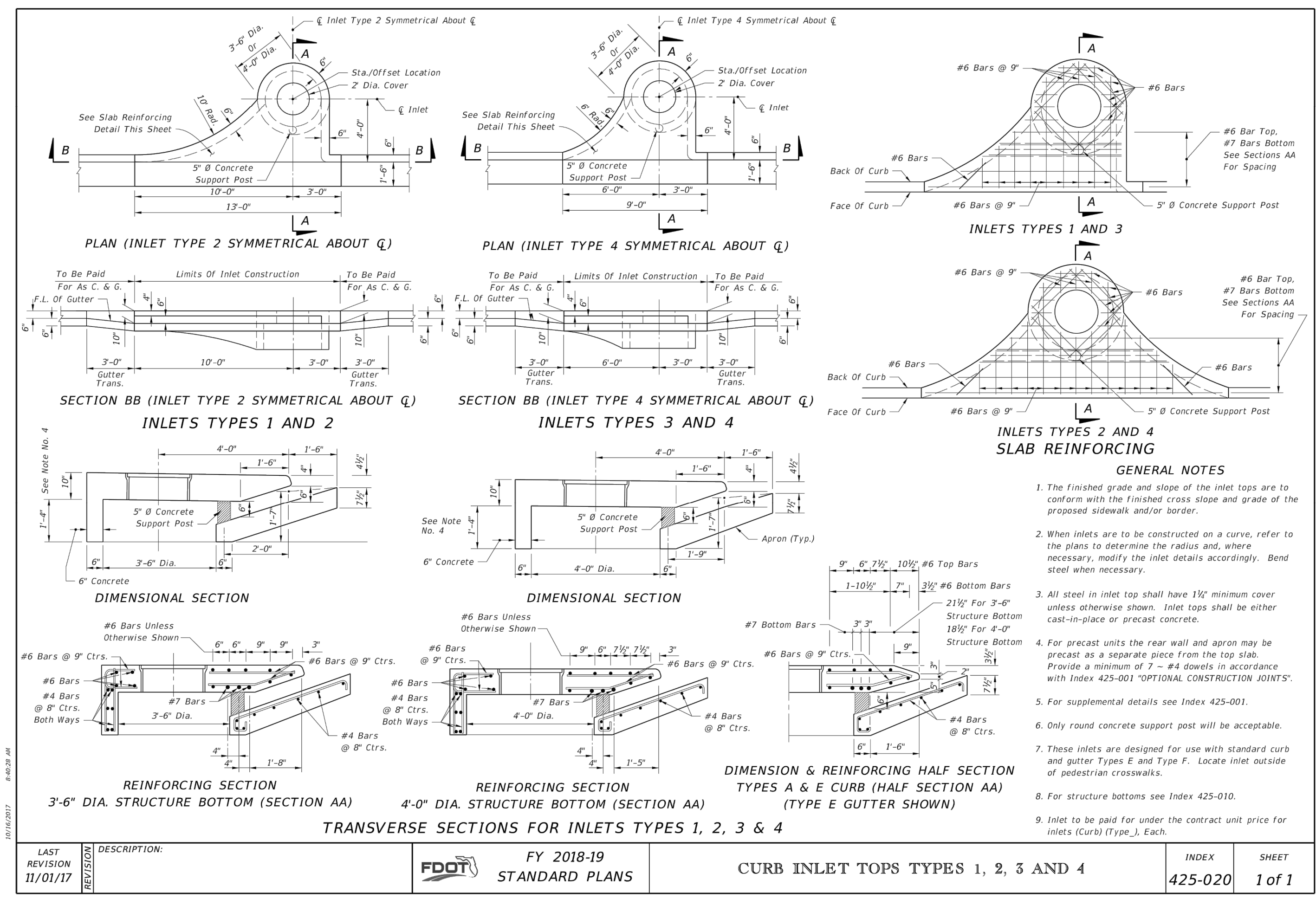
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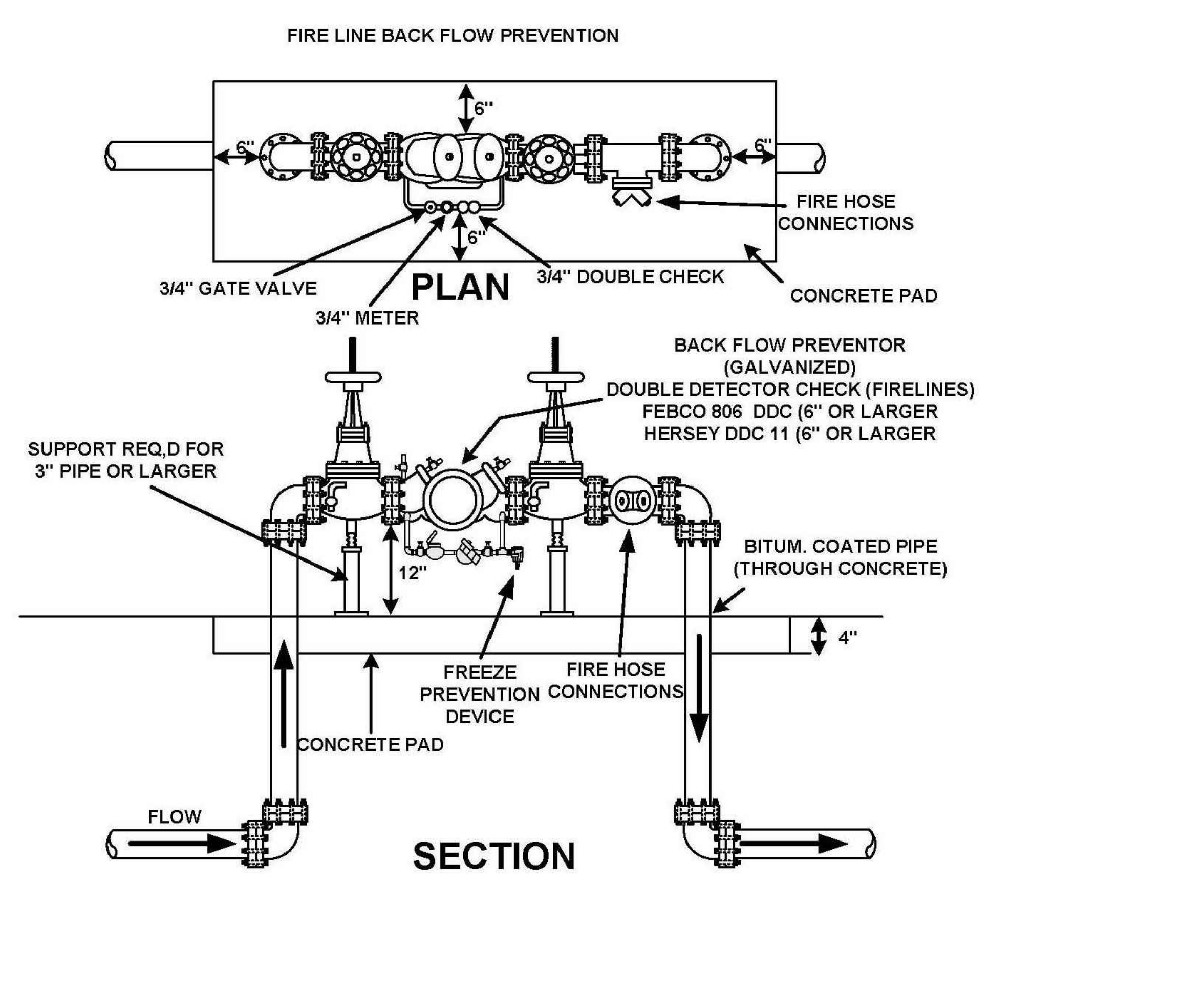
1 METER VAULT NTS



3 CURB INLET (GRATE) NTS



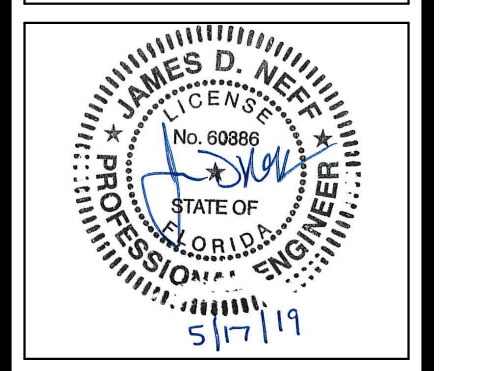
2 CURB INLET (WING) NTS



4 DOUBLE CHECK DETECTOR ASSEMBLY NTS



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PROJ # 170071  
DWG NAME 170071 COA.DWG  
ISSUE DATE 05/17/2019  
PROJ TSGR 31

UTILITY DETAILS IV  
COA.4  
SHEET NUMBER

ISSUE FOR PERMIT/PRICING

USE "TYPE C" DITCH BOTTOM INLET WITH A "TYPE C" CAST IRON GRATE FOR STRUCTURE A2.1.

USE "TYPE D" DITCH BOTTOM INLET WITH A "TYPE D" STEEL GRATE FOR STRUCTURE A5.1 AND A1.

**TYPE C**  
Recommended Maximum Pipe Size:  
2'-0" Wall - 18" Pipe  
3'-0" Wall - 24" Pipe  
4'-0" Wall - 30" Pipe

**TYPE D**  
Recommended Maximum Pipe Size:  
3'-0" Wall - 24" Pipe  
4'-0" Wall - 30" Pipe

**TYPE E**  
Recommended Maximum Pipe Size:  
3'-0" Wall - 24" Pipe  
4'-0" Wall - 30" Pipe

CAST IRON GRATES

**TYPE C (3-GRATE INLET)**  
Approx. Weight 725 Lbs.

**TYPE E**  
Approx. Weight 465 Lbs.

**TYPE H (3-GRATE INLET)**  
Approx. Weight 967 Lbs.

**TYPE H (4-GRATE INLET)**  
Approx. Total Weight 310 Lbs.

**TYPE H (2-GRATE INLET)**  
Approx. Total Weight 308 Lbs.

**STEEL GRATES**

**TYPE C**  
Straight Bars 2" x 1/2"  
Reinforcing Bars 1/2" x 3/4"  
Bands 2" x 1/2"  
Approx. Weight 104 Lbs.

**TYPE D**  
Straight Bars 2" x 1/2"  
Reinforcing Bars 1/2" x 3/4"  
Bands 2" x 1/2"  
Approx. Weight 180 Lbs.

**TYPE E**  
Straight Bars 2" x 1/2"  
Reinforcing Bars 1/2" x 3/4"  
Bands 2" x 1/2"  
Approx. Weight 215 Lbs.

**TYPE H (2-GRATE INLET)**  
Straight End-Bearing Bars 2" x 1/2"  
Reinforcing Bars 1/2" x 3/4"  
Bands 2" x 1/2"  
Approx. Total Weight 310 Lbs.

**TYPE H (4-GRATE INLET)**  
Straight End-Bearing Bars 2" x 1/2"  
Reinforcing Bars 1/2" x 3/4"  
Bands 2" x 1/2"  
Approx. Total Weight 308 Lbs.

**GENERAL NOTES**

- These inlets are suitable for bicycle traffic and are to be used in ditches, medians and other areas subject to infrequent traffic loading but are not to be placed in areas subject to any heavy wheel loads. These inlets may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet.
- Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slots inlets located within roadway clear zones and areas subject to pedestrian traffic shall have traversable slots. The traversable slot configuration is not adaptable to inlet Type H. Slots may be constructed at either or both ends as shown on plans. Traversable slots shall not be used in areas subject to occasional bicycle traffic.
- Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates may be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when Alternative G grate is specified in the plans, either the steel grate, but not advanced after fabrication, or the cast iron grate may be used, unless the plans stipulate the particular type.
- Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be checked for fit.
- All exposed edges and corners shall be 1/4" chamfer or toolled to 1/8" radius.
- Concrete inlet pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans, but required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
- Traversable slots constructed in existing inlets shall be paid for as inlets partial. For conversion work and method of payment see TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS.
- Sodding to be used on all inlets not located in paved areas and paid for under contract unit price for Performance Test 31.
- For supplementary details see Index 425-001.
- All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1/8" clearance around pipe spacing. Provide one additional #4 bar above and at each side of pipe spacing.
- Reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1/8" clearance around pipe spacing. Provide one additional #4 bar above and at each side of pipe spacing.

**TYPE H (2 & 3-GRATE INLET)**  
Recommended Maximum Pipe Size:  
3'-0" Wall - 24" Pipe  
4'-0" Wall - 30" Pipe

**TYPE H (4-GRATE INLET)**  
Recommended Maximum Pipe Size:  
3'-0" Wall - 24" Pipe  
4'-0" Wall - 30" Pipe

**GENERAL NOTES**  
See sheet 3 of 7.

TRAVERSABLE SLOTS

**PAVEMENT AND SODDING QUANTITIES FOR TRAVERSABLE SLOTS**

Inlet	Pavement		Sod	
	Single Slot	Double Slot	Single Slot	Double Slot
C	4.87	7.77	6.16	9.93
D	1.99	0.91	1.00	1.44
E	1.88	0.81	1.00	1.44

**PAVEMENT AND SODDING QUANTITIES FOR TRAVERSABLE SLOTS**

**SECTION AA**

**SECTION BB**

**SECTION CC**

**ALT. A STRUCTURE BOTTOM FOR INLETS TYPE C, D AND E**

**TOP SLAB OPENINGS**

DIAMETER	MIN.	MAX.
4'-0"	2'-0"	2'-0"
3'-0"	2'-0"	2'-0"
2'-0"	2'-0"	2'-0"
1'-0"	2'-0"	2'-0"

**TOP SLAB REINFORCING DIAGRAM**

**TOP SLAB WITH CENTERED OPENING**

SLAB DEPTH	SLAB THICKNESS	REINFORCING (12 WARS) SCHEDULE
18"-40"	9"	C
18"-30"	9"	C
18"-20"	9"	D
18"-10"	9"	D
18"-0"	9"	D
12"-40"	9"	C
12"-30"	9"	C
12"-20"	9"	D
12"-10"	9"	D
12"-0"	9"	D

**PIPE OPENING SCHEMATIC**

**GENERAL NOTES**

- These inlets are suitable for bicycle traffic and are to be used in ditches, medians and other areas subject to infrequent traffic loading but are not to be placed in areas subject to any heavy wheel loads. These inlets may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet.
- Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slots inlets located within roadway clear zones and areas subject to pedestrian traffic shall have traversable slots. The traversable slot configuration is not adaptable to inlet Type H. Slots may be constructed at either or both ends as shown on plans. Traversable slots shall not be used in areas subject to occasional bicycle traffic.
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- Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be checked for fit.
- All exposed edges and corners shall be 1/4" chamfer or toolled to 1/8" radius.
- Concrete inlet pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans, but required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
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FDOT FY 2018-19 STANDARD PLANS DITCH BOTTOM INLET TYPES C, D, E AND H INDEX 425-052 SHEET 1 of 7

FDOT FY 2018-19 STANDARD PLANS DITCH BOTTOM INLET TYPES C, D, E AND H INDEX 425-052 SHEET 7 of 7

**ingenium ENTERPRISES**  
PLANNING & ENGINEERING  
14491 N DALE HENRY HWY  
SUITE 250  
TAMPA, FL 33618  
813.367.0084

**JAMES D. NEFF**  
No. 60889  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
51719

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EAST SALAYANCA STREET  
PENSACOLA, FLORIDA

**Hilton Garden Inn**

CLIENT:  
**PEACHTREE HOTEL GROUP**  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

**REVISION HISTORY**

NO.	DATE	DESCRIPTION
1	05/17/2014	ISSUE FOR PERMIT

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PROJ. # 170071  
DWG. NAME 170071 COA.DWG  
ISSUE DATE 05/17/2014  
PROJ. TSGR 31

UTILITY DETAILS V  
C04.5  
SHEET NUMBER



**GENERAL NOTES**

- Baffles to be constructed only when called for in plans.
- When steel grating is required on endwall see Sheet 3 of 3 for details.
- All reinforcing No. 4 bars with 2" clearance except as noted.
- All angles, channels and bars shall be ASTM A242/A242M, A572/A572M or A588/A588M Grade 50 steel. When designated Alternate C in the plans galvanize in accordance with Section 975 and 425-3.2 of the Standard Specifications.
- Channel section C 3x6 may be substituted for C 4x5.4 channel.
- Precasting of this endwall will be permitted. Precast units shall conform to the dimensions shown or in accordance with approved shop drawings. Request for shop drawing approval shall be directed to the State Drainage Engineer. Use Index 425-001 for opening and grouting details.
- Concrete shall be Class I, except ASTM C478 (4000 psi) concrete may be substituted for precast items manufactured in plants meeting the requirements of Section 449 of the Specifications.
- Sodding shall be in accordance with Index 524-001, and paid for under the contract unit price for Performance Turf, 5Y.
- Endwall to be paid for under the contract unit price for U-Endwall. Each. Payment shall include cost of concrete, reinforcing steel, and when called for in the plans, steel grating, baffles and accessories. Quantities shown are for estimating purposes only.

Pipe Size	L	H	W	S	B	C	X Baffle	Y Baffle	Class I Conc. Cu. Yd.	Reinf. Steel Lbs.
15"	1.23	5'-9"	2'-3 1/2"	3'-7"	1'-3"	2'-7"	4'-4"	2'-4"	1.81	72
18"	1.77	6'-6"	3'-10"	2'-6"	1'-6"	2'-0"	4'-4"	3'-4"	1.89	86
24"	3.14	8'-0"	2'-8"	4'-4"	3'-0"	2'-0"	5'-5"	4'-4"	2.52	108
30"	4.91	9'-6"	2'-11"	4'-10"	3'-6"	2'-6"	5'-5"	7'-7"	3.34	131

Pipe Size	L	H	W	Class I Conc. Cu. Yd.	Reinf. Steel Lbs.
15"	1.23	3'-7"	1'-7 1/2"	0.89	39
18"	1.77	3'-9"	1'-10 1/2"	1.05	43
24"	3.14	4'-9"	2'-4 1/2"	1.40	55
30"	4.91	5'-9"	2'-10 1/2"	1.88	64

**ENDWALLS FOR 1:2 SLOPES**

LAST REVISION 11/01/17 DESCRIPTION: FY 2018-19 STANDARD PLANS U-TYPE CONCRETE ENDWALLS BAFFLES & GRATE OPTIONAL 15" TO 30" PIPE INDEX 430-011 SHEET 1 of 3

**GENERAL NOTES**

- Baffles to be constructed only when called for in plans.
- When steel grating is required on endwall see Sheet 3 of 3 for details.
- All reinforcing No. 4 bars with 2" clearance except as noted.
- All angles, channels and bars shall be ASTM A242/A242M, A572/A572M or A588/A588M Grade 50 steel. When designated Alternate C in the plans galvanize in accordance with Section 975 and 425-3.2 of the Standard Specifications.
- Channel section C 3x6 may be substituted for C 4x5.4 channel.
- Precasting of this endwall will be permitted. Precast units shall conform to the dimensions shown or in accordance with approved shop drawings. Request for shop drawing approval shall be directed to the State Drainage Engineer. Use Index 425-001 for opening and grouting details.
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- Sodding shall be in accordance with Index 524-001, and paid for under the contract unit price for Performance Turf, 5Y.
- Endwall to be paid for under the contract unit price for U-Endwall. Each. Payment shall include cost of concrete, reinforcing steel, and when called for in the plans, steel grating, baffles and accessories. Quantities shown are for estimating purposes only.

Pipe Size	X Baffle	Y Baffle	Class I Conc. Cu. Yd.	Reinf. Steel Lbs.
15"	4'-4"	4'-4"	2'-4"	4
18"	4'-4"	5'-5"	3'-4"	8
24"	5'-5"	6'-6"	4'-4"	12
30"	5'-5"	7'-7"	4'-4"	16

Rate Of Slope	Pipe Size	L	H	W	Baffle Locations (When Required)	Class I Conc. Cu. Yd.	Reinf. Steel Lbs.
1:3	15"	1.23	5'-9"	1'-9"	1'-9"	1.19	51
	18"	1.77	6'-6"	2'-6"	2'-6"	1.42	56
	24"	3.14	7'-6"	2'-6"	2'-6"	1.94	77
	30"	4.91	9'-0"	3'-6"	3'-6"	2.54	96
1:4	15"	1.23	7'-4"	1'-10"	2'-6"	1.54	64
	18"	1.77	6'-4"	2'-1"	2'-10"	1.84	71
	24"	3.14	10'-4"	2'-7"	3'-6"	2.53	92
	30"	4.91	12'-4"	3'-1"	4'-2"	3.34	124
1:6	15"	1.23	11'-4"	1'-11"	3'-10"	2.19	89
	18"	1.77	13'-0"	2'-2"	3'-10"	2.63	103
	24"	3.14	16'-0"	2'-8"	4'-4"	3.59	143
	30"	4.91	19'-0"	3'-2"	4'-4"	4.81	180

**ENDWALLS WITH AND WITHOUT BAFFLES FOR 1:3, 1:4 AND 1:6 SLOPES**

LAST REVISION 11/01/17 DESCRIPTION: FY 2018-19 STANDARD PLANS U-TYPE CONCRETE ENDWALLS BAFFLES & GRATE OPTIONAL 15" TO 30" PIPE INDEX 430-011 SHEET 2 of 3

**STEEL GRATING USE CRITERIA**

- Provide positive debris control at all upgradient openings. Do not install grates unless one or more of the following conditions exist:
  - Pipe culvert endwalls are located within the designated clear zone.
  - Drainage area to culvert consists of median or infield areas or areas where debris and/or drift is negligible.
  - Runoff to culvert is by sheet flow or in such III defined channels that debris transport is not considered a major problem.
  - Runoff to culvert is minor except on an infrequent basis (10 to 15 year frequency); for example a drainage basin in flat sandy terrain with normally low ground water table.
  - Areas where culvert blockage with resultant backwater would not seriously affect roadway embankment, traffic operation or upland property.
- Steel grating to be used only where called for in plans.

Rate Of Slope	Size Of Pipe D	G	2 Each Bars @ 3.4 lb/ft		(X) Channels @ 5.4 lb/ft		2 Angles @ 3.62 lb/ft		Total Weight (lb)		
			L	W-4"	lb	(X)	lb	P		lb	
1:6	15"	2'-8 1/2"	9'-3"	3'-3"	85	8	2'-6 1/2"	111	7'-4"	53	249
	18"	2'-11 1/2"	10'-3"	3'-6"	94	9	2'-9 1/2"	127	6'-4"	62	292
	24"	3'-5 1/2"	13'-3"	4'-0"	117	12	3'-3 1/2"	215	11'-4"	82	414
	30"	3'-11 1/2"	16'-3"	4'-6"	141	15	3'-9 1/2"	310	14'-4"	104	555
1:4	15"	2'-8 1/2"	6'-3"	3'-3"	65	5	2'-6 1/2"	70	4'-4"	32	167
	18"	2'-11 1/2"	7'-3"	3'-6"	73	6	2'-9 1/2"	92	5'-4"	39	204
	24"	3'-5 1/2"	9'-3"	4'-0"	90	8	3'-3 1/2"	144	7'-4"	53	287
	30"	3'-11 1/2"	11'-3"	4'-6"	107	10	3'-9 1/2"	206	9'-4"	68	381
1:3	15"	2'-8 1/2"	4'-3"	3'-3"	51	3	2'-6 1/2"	42	2'-4"	17	110
	18"	2'-11 1/2"	5'-3"	3'-6"	60	4	2'-9 1/2"	61	3'-4"	24	145
	24"	3'-5 1/2"	8'-3"	4'-0"	70	5	3'-3 1/2"	90	4'-4"	31	191
30"	3'-11 1/2"	8'-3"	4'-6"	87	7	3'-9 1/2"	145	6'-4"	46	278	

**U-TYPE CONCRETE ENDWALLS BAFFLES & GRATE OPTIONAL 15" TO 30" PIPE**

LAST REVISION 11/01/17 DESCRIPTION: FY 2018-19 STANDARD PLANS U-TYPE CONCRETE ENDWALLS BAFFLES & GRATE OPTIONAL 15" TO 30" PIPE INDEX 430-011 SHEET 3 of 3

**MANHOLE 4 MANWAY MEDIUM DUTY FOR USE IN SODDED AREA, HEAVY DUTY FOR USE IN PAVED AREA. COVERS SHALL BE INSTALLED FLUSH WITH GRADE. GROUT FRAME TO BRICKS ON BOTH SIDES OF BRICK (TYPICAL). RIM & COVER EQUAL TO MEENAH MODEL R-6462-EH W/ GAS TIGHT SEAL.**

MANHOLE SHALL BE LABELED "GREASE"

FINISHED PAVEMENT/ GRADE

LID SHALL BE TRAFFIC RATED WHEN USED BELOW CONC. AND PAVED AREAS.

24" DIA. MIN.

LIQUID SURFACE LINE

BAFFLE WALL

PRECAST GREASE INTERCEPTOR REINFORCED CONCRETE SIDES AND BOTTOM W/3 RODS 1" O.C. EACH WAY

NOTE: 1. GREASE INTERCEPTOR WITH 1,000 GALLON CAPACITY. THIS GREASE TRAP SHALL COMPLY WITH ALL LOCAL CODES.

1,000 GAL. GREASE TRAP

**ingenium ENTERPRISES**  
PLANNING & ENGINEERING  
14491 N DALE HARRY HWY SUITE 250 TAMPA, FL 33618 813.367.0084

**JAMES D. NEFF**  
No. 60889  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
51719

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HILTON GARDEN INN  
EAST SALAYANCA STREET  
PENSACOLA, FLORIDA

CLIENT: PEACHTREE HOTEL GROUP  
ONE ALLIANCE CENTER, 3500 LENOX ROAD, SUITE 625 ATLANTA, GEORGIA 30326 PHONE: (404) 497-4111

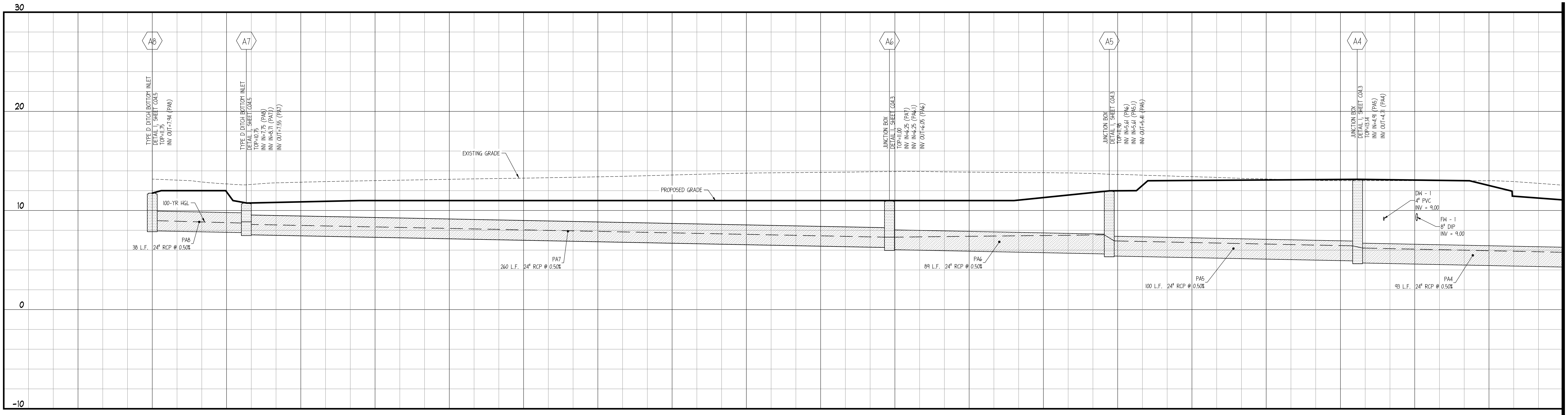
NO.	DATE	DESCRIPTION
1	05/17/2014	ISSUE FOR PERMIT/PRICING

UTILITY DETAILS VI

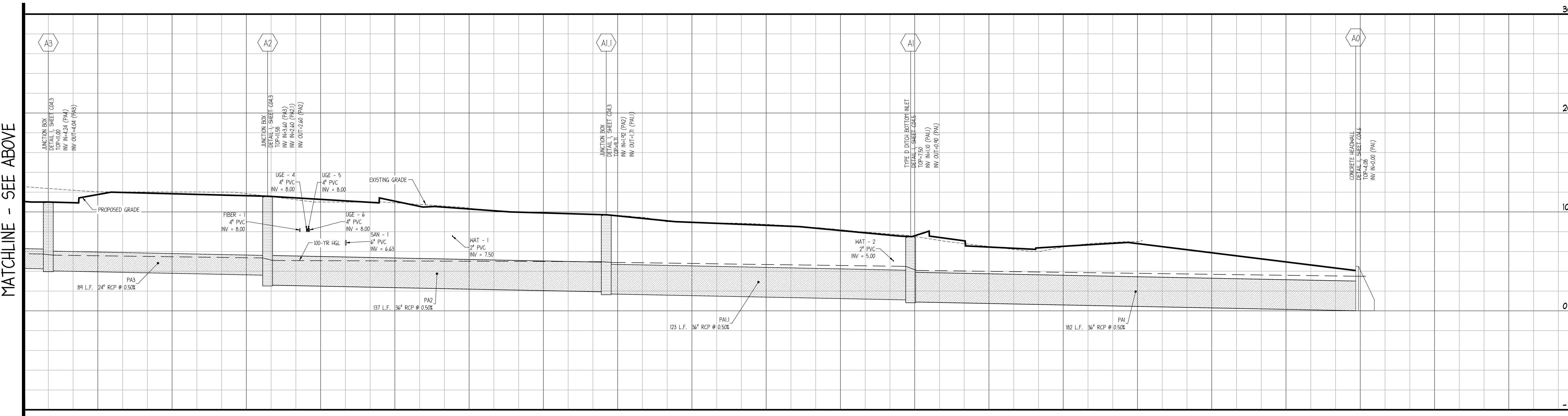
C04.6  
SHEET NUMBER

PROJ. # 170071  
DWG. NAME 170071 C04.DWG  
ISSUE DATE 05/17/2014  
PROJ. TDR: JT

STORM PROFILE A8-A0



MATCHLINE - SEE BELOW



MATCHLINE - SEE ABOVE

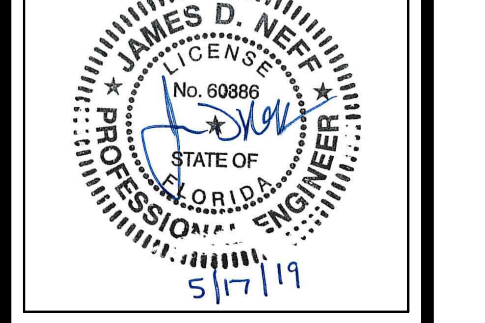
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VERTICAL SCALE: 1"=5'

PROFILE NOTES

- CONTROLLED BACK FILL TO BE PLACED IN 6" LOOSE LIFT AND COMPACTED TO 100% ASTM D698 PRIOR TO STORM AND SANITARY SENER CONSTRUCTION. BACK FILL SHALL BE PLACED TO A MINIMUM OF 12" ABOVE THE CROWN ELEVATION OF THE PIPES.
- STORM DRAIN AND SANITARY SENER LENGTHS ARE MEASURED FROM CENTERLINE OF STRUCTURE TO CENTERLINE OF STRUCTURE OR FACE OF HEADWALL.
- ALL PIPE LENGTHS SHOWN ARE ROUNDED TO THE NEAREST FOOT.
- ALL STORM DRAIN PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 1 ON SHEET C04.2 UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL SANITARY SENER PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 1 ON SHEET C04.2 UNLESS SPECIFICALLY NOTED OTHERWISE.
- UNRESEEN SUBSURFACE CONDITIONS SHALL BE BROUGHT TO THE OWNER'S AND ENGINEER'S ATTENTION IMMEDIATELY IMPLEMENTATION OF CORRECTIVE BEDDING MEASURES WITHOUT THE OWNER'S APPROVAL SHALL BE AT THE CONTRACTOR'S OWN RISK AND AT NO ADDITIONAL COMPENSATION.
- EXISTING GRADES SHOWN ARE APPROXIMATE AND DO NOT REFLECT TOP SOIL REMOVAL, CLEARING, AND GRUBBING OPERATIONS. THE CONTRACTOR SHALL ASCERTAIN FOR HIMSELF THE EXTENT OF DISTURBANCE FOR THESE ACTIVITIES.
- THE CONTRACTOR SHALL REFERENCE THE GEOTECHNICAL REPORT PREPARED FOR THE OWNER FOR SUBSURFACE CONDITIONS. THE GEOTECHNICAL REPORT IS NOT A PART OF THE CONTRACT DOCUMENTS.
- EXCAVATIONS FOR STRUCTURES SHALL BE TAKEN AS A TRENCHING EXCAVATION WITHOUT FURTHER COMPENSATION.
- SEE SHEET C01 FOR GENERAL NOTES.



**ingenium**  
ENGINEERING  
PLANNING & ENGINEERING  
14491 N DALE HENRY HWY  
SUITE 250  
TAMPA, FL 33618  
813.367.0084  
WWW.INGENIUMTEAM1.COM



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**PEACHTREE HOTEL GROUP**  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

REVISION HISTORY	
1	ISSUED FOR PERMIT/PRICING

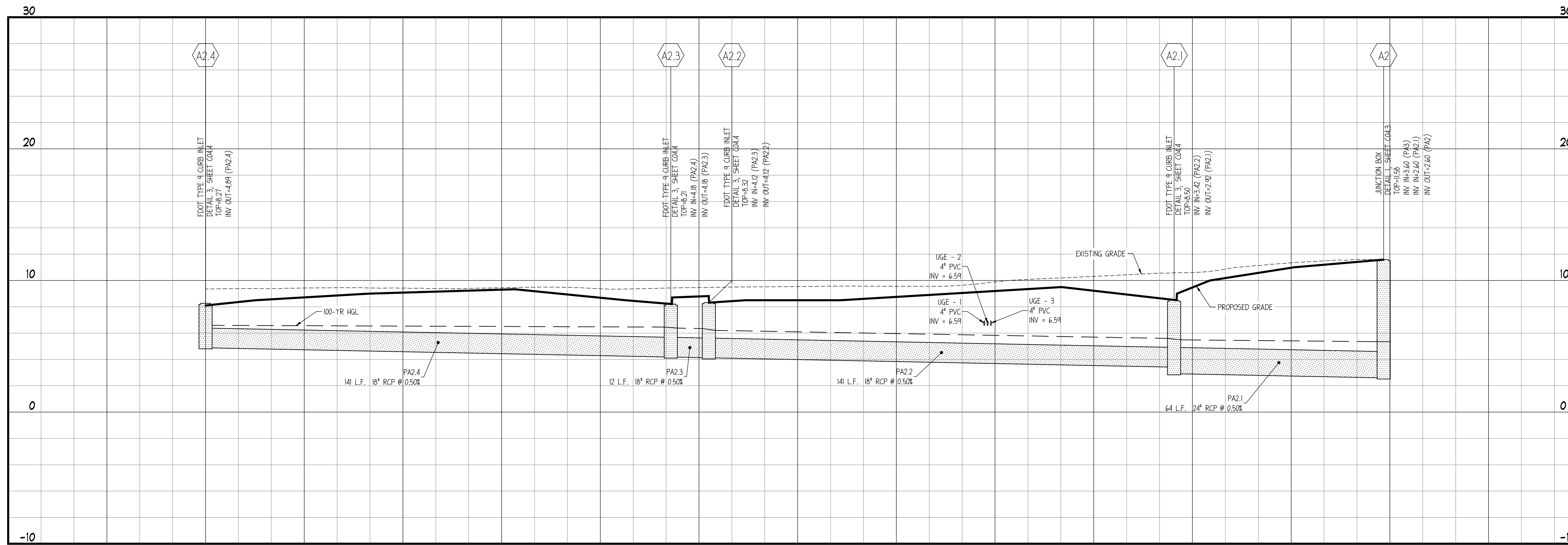
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PROJ #	170071
DWG NAME	170071_C04.DWG
ISSUE DATE	05/17/2019
PROJ TSGR	JM

PROFILES 1  
**C04.7**  
SHEET NUMBER

ISSUE FOR PERMIT/PRICING

STORM PROFILE A2.4-A2

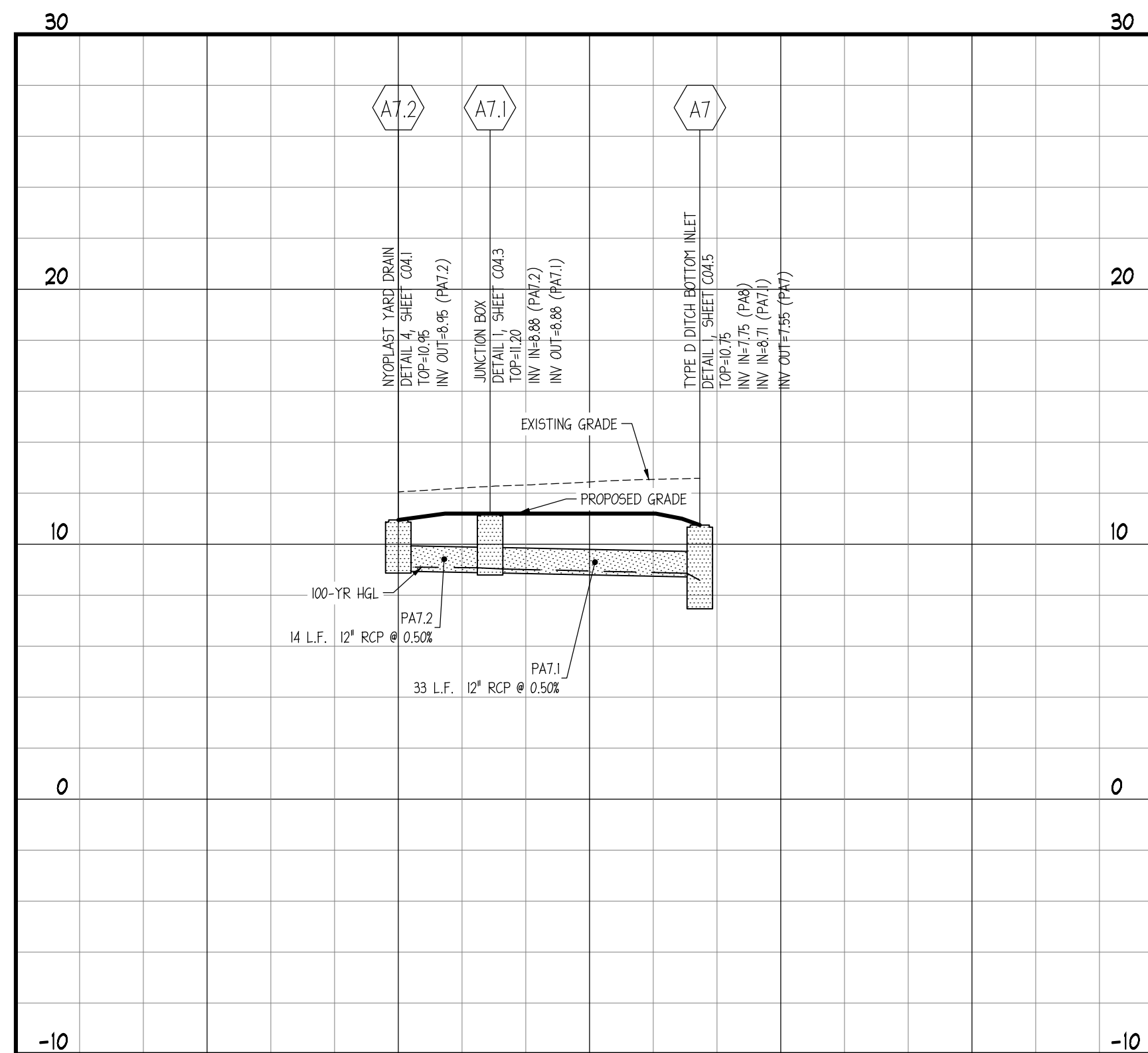


HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=5'

STORM STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	RIM ELEVATION	INVERT IN	INVERT OUT
A0	CONCRETE HEADWALL DETAIL 1, SHEET C04.6	4.08	0.00 (PA1)	
A1	TYPE D DITCH BOTTOM INLET DETAIL 1, SHEET C04.5	7.50	1.10 (PA1)	0.90 (PA1)
A1.1	JUNCTION BOX DETAIL 1, SHEET C04.3	9.71	1.92 (PA2)	1.71 (PA1)
A2	JUNCTION BOX DETAIL 1, SHEET C04.3	11.58	3.60 (PA3) 2.60 (PA2.1)	2.60 (PA2)
A2.1	FOOT TYPE 9 CURB INLET DETAIL 3, SHEET C04.4	8.50	3.42 (PA2.2)	2.92 (PA2.1)
A2.2	FOOT TYPE 9 CURB INLET DETAIL 3, SHEET C04.4	8.32	4.12 (PA2.3)	4.12 (PA2.2)
A2.3	FOOT TYPE 9 CURB INLET DETAIL 3, SHEET C04.4	8.21	4.18 (PA2.4)	4.18 (PA2.3)
A2.4	FOOT TYPE 9 CURB INLET DETAIL 3, SHEET C04.4	8.27		4.89 (PA2.4)
A3	JUNCTION BOX DETAIL 1, SHEET C04.3	11.00	4.24 (PA4)	4.04 (PA3)
A4	JUNCTION BOX DETAIL 1, SHEET C04.3	13.14	4.49 (PA5)	4.71 (PA4)
A5	JUNCTION BOX DETAIL 1, SHEET C04.3	11.98	5.61 (PA6) 5.61 (PA5.1)	5.41 (PA5)
A5.1	TYPE D DITCH BOTTOM INLET DETAIL 1, SHEET C04.5	12.80		5.80 (PA5.1)
A6	JUNCTION BOX DETAIL 1, SHEET C04.3	11.00	6.25 (PA7) 6.25 (PA6.1)	6.05 (PA6)
A6.1	TYPE D DITCH BOTTOM INLET DETAIL 1, SHEET C04.5	9.60		6.34 (PA6.1)
A7	TYPE D DITCH BOTTOM INLET DETAIL 1, SHEET C04.5	10.75	7.75 (PA8) 8.71 (PA7.1)	7.55 (PA7)
A7.1	JUNCTION BOX DETAIL 1, SHEET C04.3	11.20	8.88 (PA7.2)	8.88 (PA7.1)
A7.2	NYOPLAST YARD DRAIN DETAIL 4, SHEET C04.1	10.95		8.95 (PA7.2)
A8	TYPE D DITCH BOTTOM INLET DETAIL 1, SHEET C04.5	11.75		7.94 (PA8)

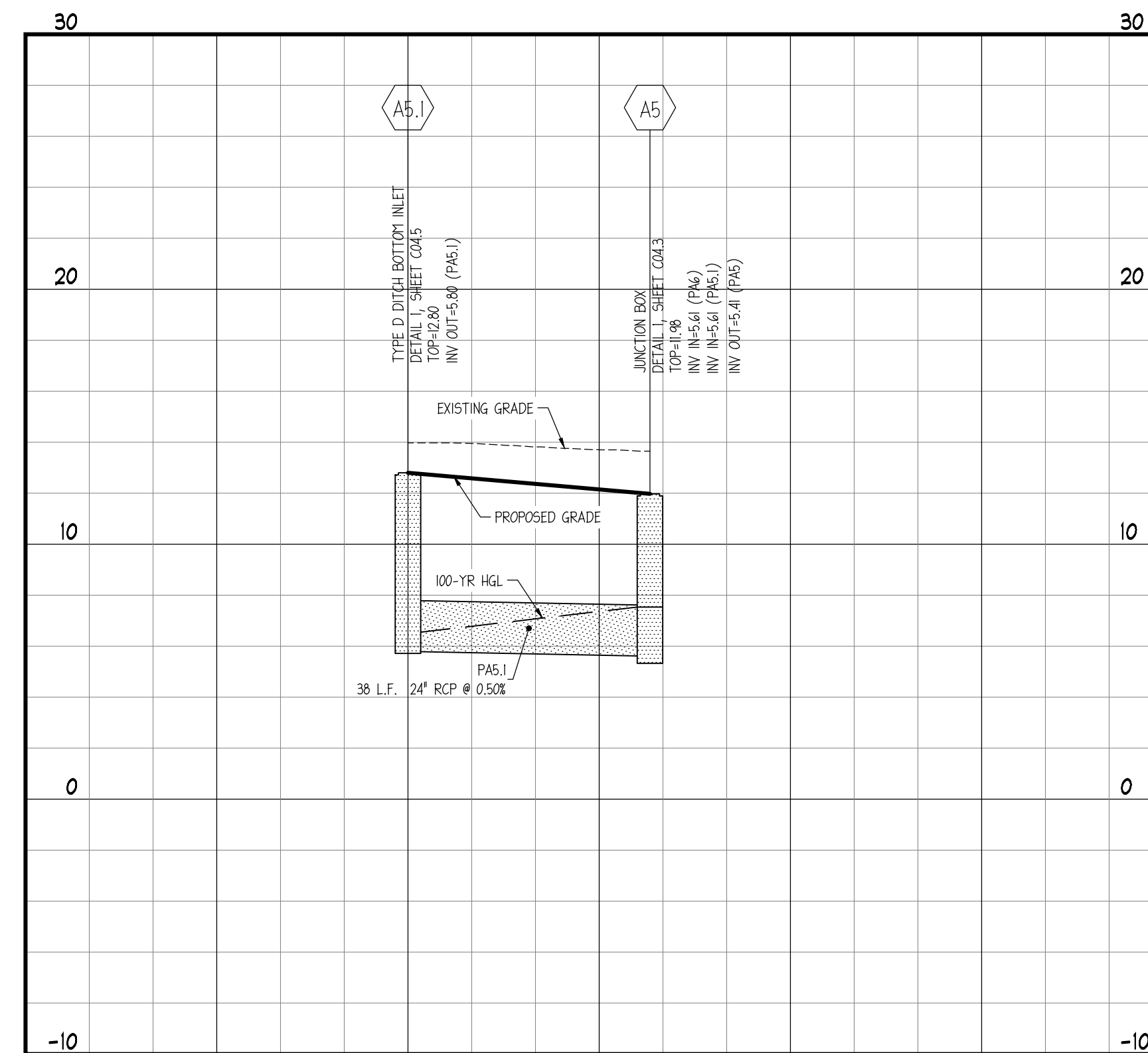
STORM PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
PA1	36"	182'	0.50%	RCP
PA1.1	36"	123'	0.50%	RCP
PA2	36"	137'	0.50%	RCP
PA2.1	24"	64'	0.50%	RCP
PA2.2	18"	140'	0.50%	RCP
PA2.3	18"	12'	0.50%	RCP
PA2.4	18"	140'	0.50%	RCP
PA3	24"	89'	0.50%	RCP
PA4	24"	93'	0.50%	RCP
PA5	24"	100'	0.50%	RCP
PA5.1	24"	38'	0.50%	RCP
PA6	24"	89'	0.50%	RCP
PA6.1	18"	18'	0.50%	RCP
PA7	24"	260'	0.50%	RCP
PA7.1	12"	33'	0.50%	RCP
PA7.2	12"	14'	0.50%	RCP
PA8	24"	38'	0.50%	RCP

STORM PROFILE A7.2-A7



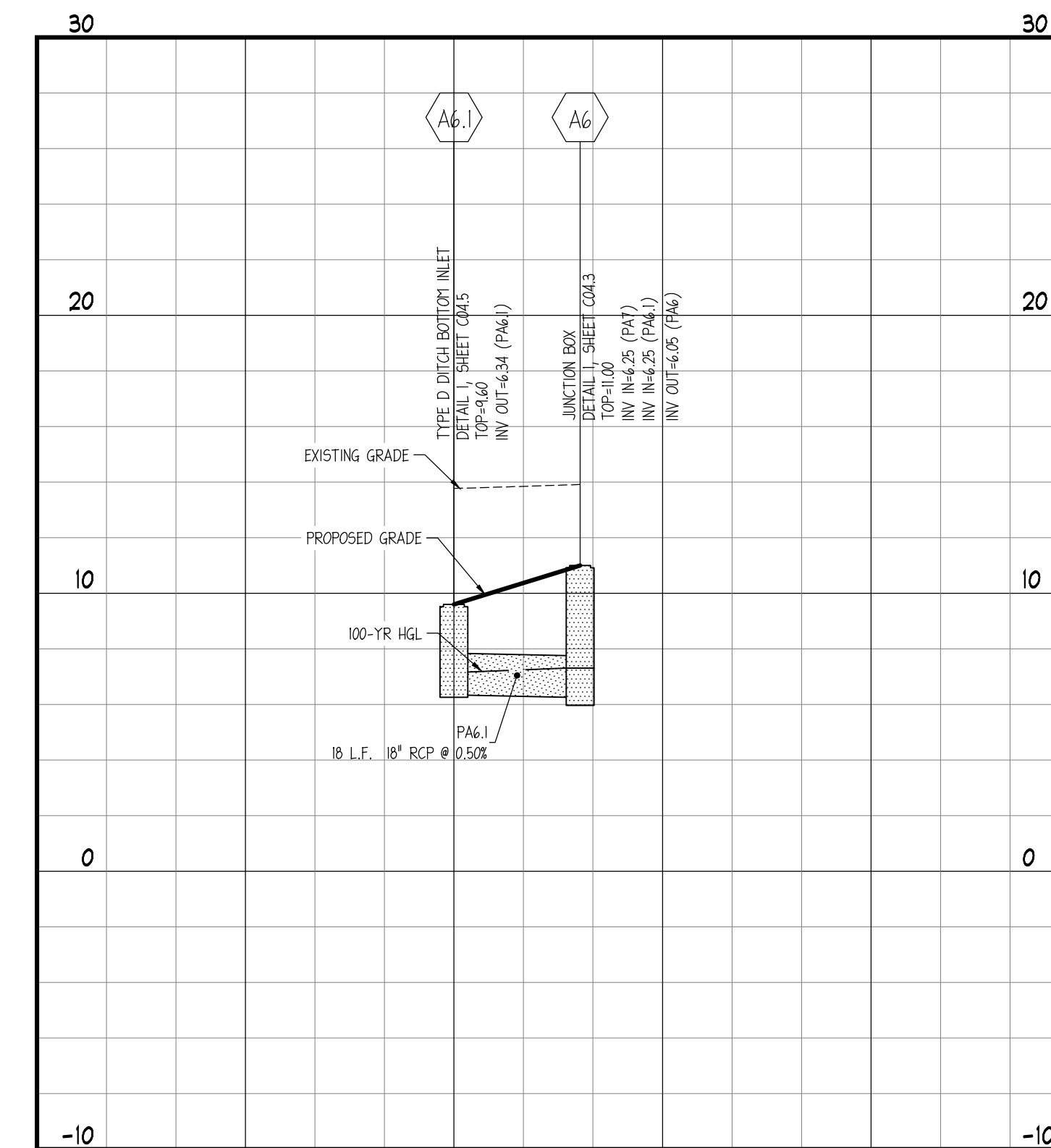
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=5'

STORM PROFILE A5.1-A5



HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=5'

STORM PROFILE A6.1-A6



HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=5'

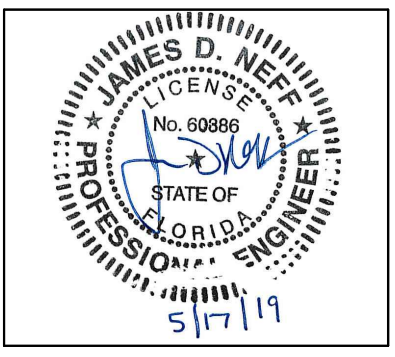
PROFILE NOTES

- CONTROLLED BACK FILL TO BE PLACED IN 4" LOOSE LIFT AND COMPACTED TO 100% ASTM D698 PRIOR TO STORM AND SANITARY SEWER CONSTRUCTION. BACK FILL SHALL BE PLACED TO A MINIMUM OF ±2" ABOVE THE CROWN ELEVATION OF THE PIPES.
- STORM DRAIN AND SANITARY SEWER LENGTHS ARE MEASURED FROM CENTER LINE OF STRUCTURE TO CENTERLINE OF STRUCTURE OR FACE OF HEADWALL.
- ALL PIPE LENGTHS SHOWN ARE ROUNDED TO THE NEAREST FOOT.
- ALL STORM DRAIN PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 1 ON SHEET C04.2 UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL SANITARY SEWER PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 1 ON SHEET C04.2 UNLESS SPECIFICALLY NOTED OTHERWISE.
- UNFORESEEN SUBSURFACE CONDITIONS SHALL BE BROUGHT TO THE OWNER'S AND ENGINEER'S ATTENTION IMMEDIATELY. IMPLEMENTATION OF CORRECTIVE BEDDING MEASURES WITHOUT THE OWNER'S APPROVAL SHALL BE AT THE CONTRACTOR'S OWN RISK AND AT NO ADDITIONAL COMPENSATION.
- EXISTING GRADES SHOWN ARE APPROXIMATE AND DO NOT REFLECT TOP SOIL REMOVAL, CLEARING, AND GRUBBING OPERATIONS. THE CONTRACTOR SHALL ASCERTAIN FOR HIMSELF THE EXTENT OF DISTURBANCE FOR THESE ACTIVITIES.
- THE CONTRACTOR SHALL REFERENCE THE GEOTECHNICAL REPORT PREPARED FOR THE OWNER FOR SUBSURFACE CONDITIONS. THE GEOTECHNICAL REPORT IS NOT A PART OF THE CONTRACT DOCUMENTS.
- EXCAVATIONS FOR STRUCTURES SHALL BE TAKEN AS A TRENCHING EXCAVATION WITHOUT FURTHER COMPENSATION.
- SEE SHEET C04.1 FOR GENERAL NOTES.



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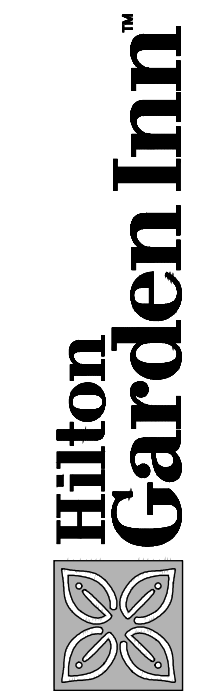
14491 N DALE HENRY HWY  
SUITE 250  
TAMPA, FL 33618  
813.367.0004



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HILTON GARDEN INN  
EAST SALAYANCA STREET  
PENSACOLA, FLORIDA



CLIENT:  
**PEACHTREE HOTEL GROUP**  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

REVISION HISTORY	
1	ISSUE FOR PERMIT/PRICING

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PROJ # 170071  
DWG NAME 170071.C04.DWG  
ISSUE DATE 05/17/2014  
PROJ TSGR 31

PROFILES II  
**C04.8**  
SHEET NUMBER

ISSUE FOR PERMIT/PRICING

100-YEAR STORM SEWER TABULATION REPORT

Page 1

### Storm Sewer Tabulation

Station	Len	Dmg Area		Rnoft	Area x C		Tc		Rain	Total	Cap	Vol	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID	
		Incr	Total		Incr	Total	Inlet	Syst					(l)	(cfs)	(cfs)	(ft/s)	Size	Slope	Dn	Up		Dn
Line	To	(ft)	(ac)	(C)	(ac)	(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)		
17	16	141.418	0.47	0.47	0.75	0.35	0.35	5.0	5.0	9.8	3.47	8.06	1.96	18	0.50	4.18	4.89	6.46	6.59	8.21	8.27	PA2.4
16	15	11.580	0.30	0.77	0.84	0.25	0.60	5.0	6.2	9.4	5.70	8.19	3.23	18	0.52	4.12	4.18	6.35	6.38	8.32	8.21	PA2.3
15	14	141.422	0.21	0.98	0.91	0.19	0.80	5.0	6.3	9.4	7.49	8.00	4.24	18	0.49	3.42	4.12	5.60	6.21	8.50	8.32	PA2.2
14	3	63.689	0.64	1.62	0.71	0.45	1.25	5.0	6.8	9.2	11.54	17.37	3.67	24	0.50	2.60	2.92	5.35	5.49	11.58	8.50	PA2.1
13	6	38.000	0.53	0.53	0.87	0.46	0.46	5.0	5.0	9.8	4.53	17.33	2.84	24	0.50	5.61	5.80	7.54	6.55	11.98	12.80	PA5.1
12	7	18.147	0.73	0.73	0.65	0.47	0.47	5.0	5.0	9.8	4.67	8.01	4.08	18	0.50	6.25	6.34	7.31	7.17	12.00	9.60	PA6.1
11	8	38.000	0.97	0.97	0.87	0.84	0.84	5.0	5.0	9.8	8.30	17.33	5.29	24	0.50	7.75	7.94	8.73	8.97	10.75	11.75	PA8
10	9	14.385	0.02	0.02	0.65	0.01	0.01	5.0	5.0	9.8	0.13	2.69	1.47	12	0.49	8.88	8.95	9.08	9.10	11.20	10.95	PA7.2
9	8	32.924	0.01	0.03	0.01	0.00	0.01	5.0	6.1	9.5	0.13	2.77	1.80	12	0.52	8.71	8.88	8.86	9.03	10.75	11.20	PA7.1
8	7	259.804	0.18	1.18	0.72	0.13	0.99	5.0	8.8	8.7	8.56	17.33	5.12	24	0.50	6.25	7.55	7.31	8.59	12.00	10.75	PA7
7	6	88.802	0.01	1.92	0.01	0.00	1.46	5.0	9.9	8.4	12.29	17.25	4.93	24	0.50	5.61	6.05	7.54	7.31	11.98	12.00	PA6
6	5	100.302	0.01	2.46	0.01	0.00	1.92	5.0	10.2	8.3	16.01	17.30	6.25	24	0.50	4.91	5.41	6.43	6.93	13.14	11.98	PA5
5	4	93.111	0.01	2.47	0.01	0.00	1.92	5.0	10.5	8.2	15.90	17.41	6.28	24	0.50	4.24	4.71	5.74	6.21	11.00	13.14	PA4
4	3	88.604	0.01	2.48	0.01	0.00	1.92	5.0	10.7	8.2	15.79	17.27	5.66	24	0.50	3.60	4.04	5.35	5.63	11.58	11.00	PA3
3	2	136.785	0.01	4.11	0.01	0.00	3.17	5.0	11.0	8.1	25.83	50.94	3.89	36	0.50	1.92	2.60	4.97	5.09	9.71	11.58	PA2
2	1	122.955	0.01	4.12	0.01	0.00	3.17	5.0	11.5	8.0	40.76	50.89	5.77	36	0.50	1.10	1.71	4.50	4.90	7.50	9.71	PA1.1
1	End	181.786	0.18	4.30	0.40	0.07	3.24	5.0	11.9	7.9	41.09	51.12	5.81	36	0.50	0.01	0.92	3.50	4.09	4.08	7.50	PA1

Project File: 170071 - Inlet Only.stm      Number of lines: 17      Run Date: 5/16/2019

Storm Sewers v12.00

100-YEAR STORM INLET REPORT

Page 1

### Inlet Report

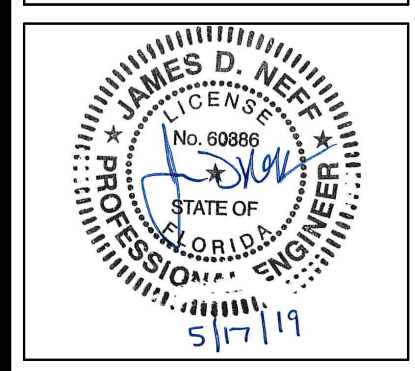
Line No	Inlet ID	Q = CIA	Q carry	Q capt	Q Byp	Junc Type	Curb Inlet		Grate Inlet			Gutter					Inlet			Byp Line No		
							Ht (in)	L (ft)	Area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)		Spread (ft)	Depr (in)
17	A2.4	3.47	0.00	3.47	0.00	Comb	4.0	2.74	1.05	2.96	1.50	Sag	1.50	0.050	0.020	0.000	0.35	15.40	0.35	15.40	0.0	Off
16	A2.3	2.48	0.00	2.48	0.00	Comb	4.0	2.74	1.05	2.96	1.50	Sag	1.50	0.050	0.020	0.000	0.31	13.02	0.31	13.02	0.0	Off
15	A2.2	1.88	0.00	1.88	0.00	Comb	4.0	2.74	1.05	2.96	1.50	Sag	1.50	0.050	0.020	0.000	0.26	10.76	0.26	10.76	0.0	Off
14	A2.1	4.47	0.00	4.47	0.00	Comb	4.0	2.74	1.05	2.96	1.50	Sag	1.50	0.050	0.020	0.000	0.35	15.40	0.35	15.40	0.0	Off
13	A5.1	4.53	0.00	4.53	0.00	DiGrt	0.0	0.00	5.21	3.13	4.50	Sag	0.01	0.020	0.020	0.000	0.21	25.89	0.21	25.89	0.0	Off
12	A6.1	4.67	0.00	4.67	0.00	DiGrt	0.0	0.00	5.21	3.13	4.50	Sag	0.01	0.020	0.020	0.000	0.22	26.30	0.22	26.30	0.0	Off
11	A8	8.30	0.00	8.30	0.00	DiGrt	0.0	0.00	5.21	3.13	4.50	Sag	0.01	0.020	0.020	0.000	0.32	36.51	0.32	36.51	0.0	Off
10	A7.2	0.13	0.00	0.13	0.00	DiGrt	0.0	0.00	0.55	3.88	2.92	Sag	0.01	0.020	0.020	0.000	0.02	5.06	0.02	5.06	0.0	Off
9	A7.1	0.01*	0.00	0.00	0.01	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
8	A7	1.27	0.00	1.27	0.00	DiGrt	0.0	0.00	5.21	3.13	4.50	Sag	0.01	0.020	0.020	0.000	0.09	13.67	0.09	13.67	0.0	Off
7	A6	0.01*	0.00	0.00	0.01	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
6	A5	0.01*	0.00	0.00	0.01	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
5	A4	0.01*	0.00	0.00	0.01	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
4	A3	0.01*	0.00	0.00	0.01	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
3	A2	0.01*	0.00	0.00	0.01	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
2	A1.1	15.32*	0.00	0.00	15.32	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
1	A1	0.71	0.00	0.71	0.00	DiGrt	0.0	0.00	5.21	3.13	4.50	Sag	0.01	0.020	0.020	0.000	0.06	10.70	0.06	10.70	0.0	Off

Project File: 170071 - Inlet Only.stm      Number of lines: 17      Run Date: 5/17/2019

Storm Sewers v12.00



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TAMPA, FL 33618  
813.367.0004



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EAST SALAMANCA STREET  
PENSACOLA, FLORIDA

**Hilton Garden Inn**

CLIENT:  
**PEACHTREE HOTEL GROUP**  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

REVISION HISTORY

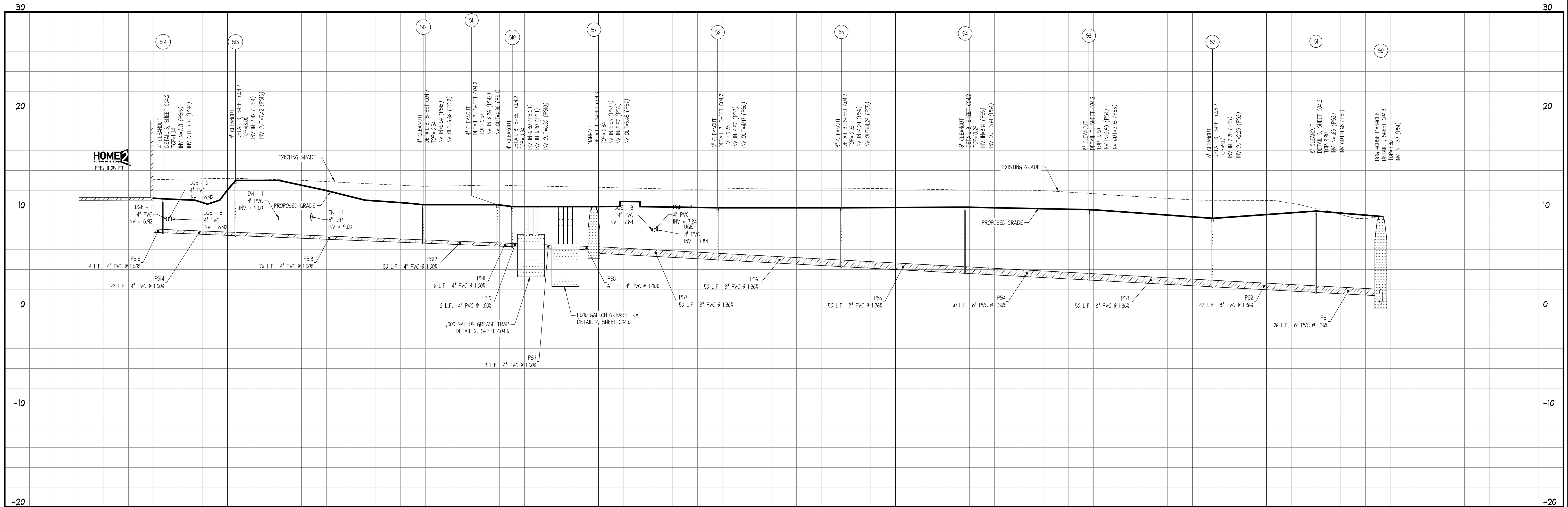

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PROJ # 170071  
DWG NAME 170071 CO4.DWG  
ISSUE DATE 05/17/2019  
PROJ TSGR JBT

PROFILES III  
  
CO4.9  
SHEET NUMBER

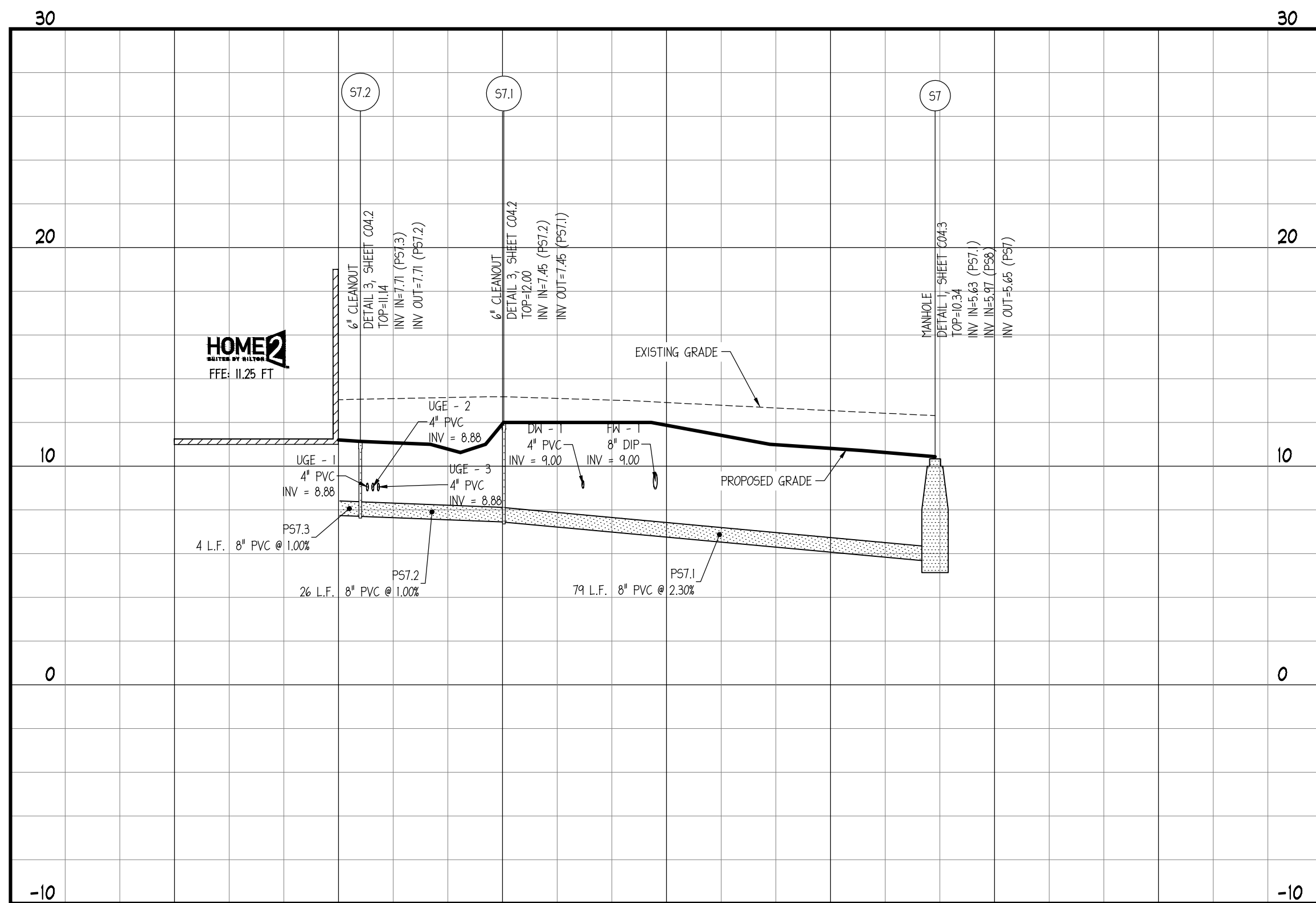
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SANITARY PROFILE S15-S0



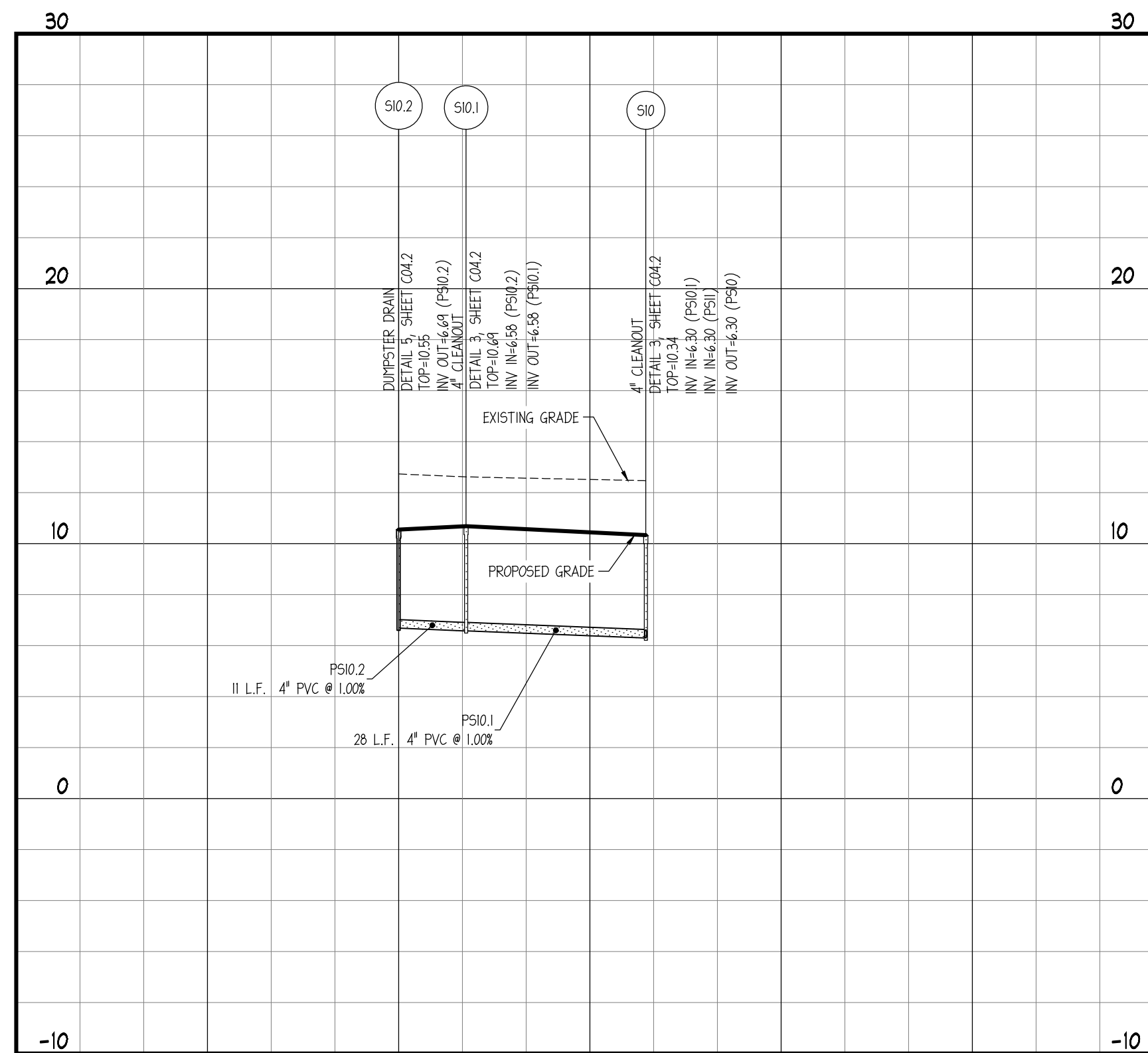
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=5'

SANITARY PROFILE S7.3-S7



HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=5'

SANITARY PROFILE S10.2-S10



HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=5'

SANITARY STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	RIM ELEVATION	INVERT IN	INVERT OUT
E01	EXISTING SANITARY MANHOLE	3.91		0.56 (PEX1)
E02	EXISTING SANITARY MANHOLE	3.78	0.43 (PEX1)	
S0	DOG HOUSE MANHOLE DETAIL 1, SHEET C04.3	4.36	1.32 (PS1)	
S1	8" CLEANOUT DETAIL 3, SHEET C04.2	4.90	1.68 (PS2)	1.68 (PS1)
S2	8" CLEANOUT DETAIL 3, SHEET C04.2	4.17	2.25 (PS3)	2.25 (PS2)
S3	8" CLEANOUT DETAIL 3, SHEET C04.2	10.00	2.93 (PS4)	2.93 (PS3)
S4	8" CLEANOUT DETAIL 3, SHEET C04.2	10.29	3.61 (PS5)	3.61 (PS4)
S5	8" CLEANOUT DETAIL 3, SHEET C04.2	10.23	4.24 (PS6)	4.24 (PS5)
S6	8" CLEANOUT DETAIL 3, SHEET C04.2	10.23	4.97 (PS7)	4.97 (PS6)
S7	MANHOLE DETAIL 1, SHEET C04.3	10.34	5.63 (PS7.1) 5.97 (PS8)	5.65 (PS7)
S7.1	8" CLEANOUT DETAIL 3, SHEET C04.2	12.00	7.45 (PS7.2)	7.45 (PS7.1)
S7.2	8" CLEANOUT DETAIL 3, SHEET C04.2	11.14	7.71 (PS7.3)	7.71 (PS7.2)
S7.3	BUILDING STUB	11.20		7.75 (PS7.3)
S8-IN	GREASE STUB IN	10.34	6.14 (PS9)	
S8-OUT	GREASE STUB OUT	10.34		6.03 (PS8)
S9	1,000 GALLON GREASE TRAP DETAIL 2, SHEET C04.6	10.34		
S9-IN	GREASE STUB IN	10.34	6.28 (PS10)	
S9-OUT	GREASE STUB OUT	10.34		6.17 (PS9)
S10	4" CLEANOUT DETAIL 3, SHEET C04.2	10.34	6.30 (PS10.1) 6.30 (PS1)	6.30 (PS10)
S10.1	4" CLEANOUT DETAIL 3, SHEET C04.2	10.49	6.58 (PS10.2)	6.58 (PS10)
S10.2	DUMPSTER DRAIN DETAIL 5, SHEET C04.2	10.55		6.69 (PS10.2)
S11	4" CLEANOUT DETAIL 3, SHEET C04.2	10.54	6.36 (PS12)	6.36 (PS11)
S12	4" CLEANOUT DETAIL 3, SHEET C04.2	10.54	6.66 (PS13)	6.66 (PS12)
S13	4" CLEANOUT DETAIL 3, SHEET C04.2	13.00	7.42 (PS14)	7.42 (PS13)
S14	4" CLEANOUT DETAIL 3, SHEET C04.2	11.14	7.71 (PS15)	7.71 (PS14)
S15	BUILDING STUB	11.20		7.75 (PS15)

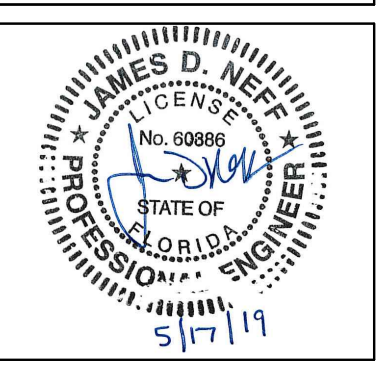
SANITARY PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
PEX1	18"	262'	0.05%	RCP
PS1	8"	26'	1.36%	PVC
PS2	8"	42'	1.36%	PVC
PS3	8"	50'	1.36%	PVC
PS4	8"	50'	1.36%	PVC
PS5	8"	50'	1.36%	PVC
PS6	8"	50'	1.36%	PVC
PS7	8"	50'	1.36%	PVC
PS7.1	8"	79'	2.30%	PVC
PS7.2	8"	26'	1.00%	PVC
PS7.3	8"	4'	1.00%	PVC
PS8	4"	6'	1.00%	PVC
PS9	4"	3'	1.00%	PVC
PS10	4"	2'	1.00%	PVC
PS10.1	4"	28'	1.00%	PVC
PS10.2	4"	11'	1.00%	PVC
PS11	4"	6'	1.00%	PVC
PS12	4"	30'	1.00%	PVC
PS13	4"	76'	1.00%	PVC
PS14	4"	29'	1.00%	PVC
PS15	4"	4'	1.00%	PVC

PROFILE NOTES

- CONTROLLED BACK FILL TO BE PLACED IN 4" LOOSE LIFT AND COMPACTED TO 100% ASTM D698 PRIOR TO STORM AND SANITARY SEWER CONSTRUCTION. BACK FILL SHALL BE PLACED TO A MINIMUM OF 12" ABOVE THE CROWN ELEVATION OF THE PIPES.
- STORM DRAIN AND SANITARY SEWER LENGTHS ARE MEASURED FROM CENTER LINE OF STRUCTURE TO CENTERLINE OF STRUCTURE OR FACE OF HEADWALL.
- ALL PIPE LENGTHS SHOWN ARE ROUNDED TO THE NEAREST FOOT.
- ALL STORM DRAIN PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 1 ON SHEET C04.2 UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL SANITARY SEWER PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 1 ON SHEET C04.2 UNLESS SPECIFICALLY NOTED OTHERWISE.
- UNFORESEEN SUBSURFACE CONDITIONS SHALL BE BROUGHT TO THE OWNER'S AND ENGINEER'S ATTENTION IMMEDIATELY IMPLEMENTATION OF CORRECTIVE BEDDING MEASURES WITHOUT THE OWNER'S APPROVAL SHALL BE AT THE CONTRACTOR'S OWN RISK AND AT NO ADDITIONAL COMPENSATION.
- EXISTING GRADES SHOWN ARE APPROXIMATE AND DO NOT REFLECT TOP SOIL REMOVAL, CLEARING, AND GRUBBING OPERATIONS. THE CONTRACTOR SHALL ASCERTAIN FOR HIMSELF THE EXTENT OF DISTURBANCE FOR THESE ACTIVITIES.
- THE CONTRACTOR SHALL REFERENCE THE GEOTECHNICAL REPORT PREPARED FOR THE OWNER FOR SUBSURFACE CONDITIONS. THE GEOTECHNICAL REPORT IS NOT A PART OF THE CONTRACT DOCUMENTS.
- EXCAVATIONS FOR STRUCTURES SHALL BE TAKEN AS A TRENCHING EXCAVATION WITHOUT FURTHER COMPENSATION.
- SEE SHEET C01 FOR GENERAL NOTES.

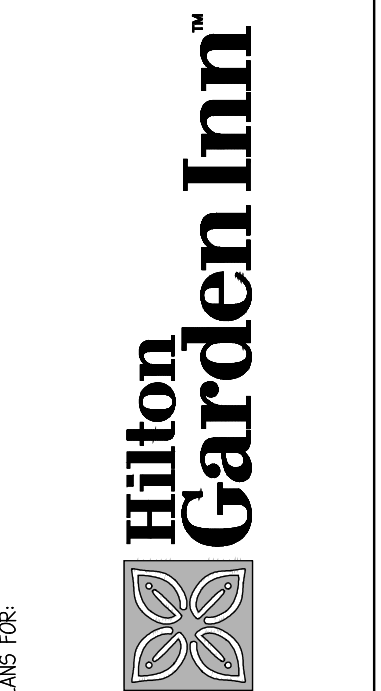


ingenium  
ENTERPRISES  
PLANNING & ENGINEERING  
14491 N DALE HARRY HWY  
SUITE 250  
TAMPA, FL 33618  
813.367.0004



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CLIENT:  
PEACHTREE HOTEL GROUP  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
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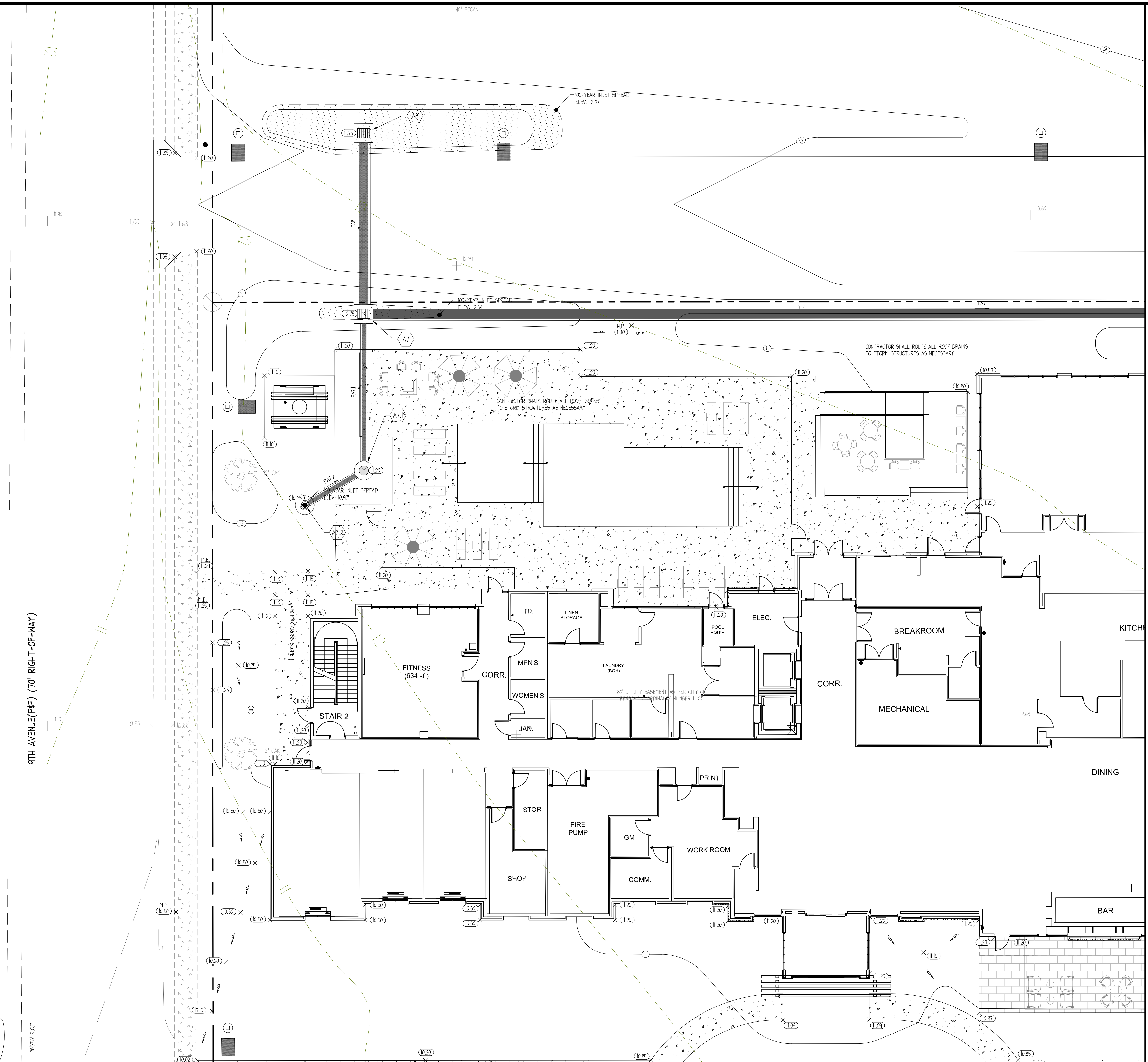
REVISION HISTORY	
1	ISSUED FOR PERMIT/PRICING

PROFILES IV	
PROJ #	170071
DWG NAME	170071 C04.DWG
ISSUE DATE	05/17/2019
PROJ TSGR	JM

C04.10  
SHEET NUMBER

ISSUE FOR PERMIT/PRICING

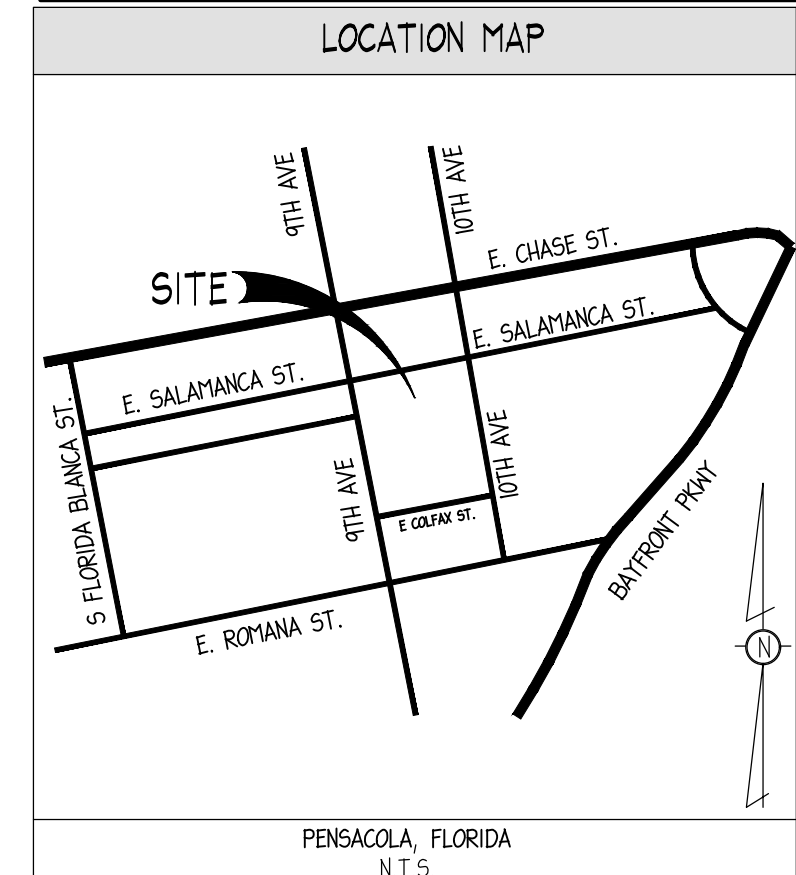




9TH AVENUE (PAV) (70' RIGHT-OF-WAY)

MATCHLINE - SEE SHEET C05.4

MATCHLINE - SEE SHEET C05.2



**GRADING & DRAINAGE NOTES**

- SEE LANDSCAPE PLAN FOR REQUIRED TREES AND GROUND COVER.
- SLOPE OF SURFACE GRADE SHALL BE A MINIMUM OF 1.00%
- MAXIMUM CUT OF FILL SLOPES IS 2:1
- THE CONTRACTOR SHALL PROVIDE CLEAN, SUITABLE MATERIAL FOR REQUIRED FILL. SHOULD A SUFFICIENT QUANTITY OF SUITABLE MATERIAL NOT BE AVAILABLE FROM THE REQUIRED EXCAVATION TO THE SITE.
- ALL FILL SHOULD BE PLACED IN THIN, HORIZONTAL LOOSE LIFTS (MAXIMUM 6-INCH) AND COMPACTED TO AT LEAST 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). THE UPPER 8 INCHES OF SOIL BENEATH PAVEMENTS AND SLAB-ON-GRADE SHOULD BE COMPACTED TO AT LEAST 100 PERCENT. CONSTRUCTION MUST BE CERTIFIED BY A GEORGIA REGISTERED PROFESSIONAL SOILS ENGINEER PRIOR TO THE INSTALLATION OF PAVEMENTS, CURBS, SIDEWALKS OR FOOTINGS OF ANY TYPE.
- RETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE FULLY CONSTRUCTED AND OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- LENGTH OF RIP-RAP PADS AT PIPE OUTLET STRUCTURES TO BE A MINIMUM LENGTH OF (6) SIX TIMES THE DIAMETER OF THE PIPE.
- JURISDICTIONAL LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A PUBLIC ROAD OR STREET.
- SEE SHEET C01 FOR GENERAL NOTES.

**BUILDING AREA NOTES**

- MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION, I.E. IN TIMES OF RAIN OR MUD, ROADS SHALL BE PASSABLE TO EMERGENCY VEHICLES BY BEING PAVED OR HAVING A CRUSHED STONE BASE ETC. WITH A MINIMUM WIDTH OF 20 FEET. THE ACCESS TO BUILDINGS HAVING SPRINKLER OR STANDPIPE SYSTEMS SHALL BE TO WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTION (NFPA 11A 3-1).
- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS AROUND BUILDING. INSTALL FRENCH DRAIN IN LANDSCAPED AREAS ADJACENT TO BUILDING AND CONNECT TO DRAINAGE SYSTEM.
- SEE SHEET C01 FOR GENERAL NOTES.

**HYDROLOGY STATEMENT**

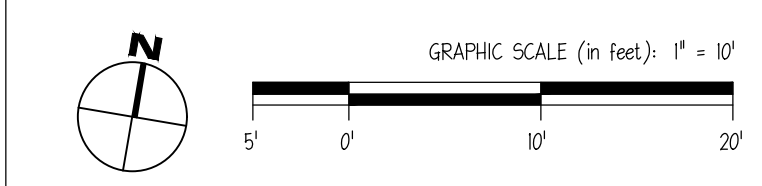
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IN THE PROPOSED CONDITION, THE SITE IS COVERED BY THE EXISTING POND LOCATED IN THE VETERANS MEMORIAL PARK TO THE SOUTH OF THE PROPERTY. DUE TO THE CITY'S STORMWATER SYSTEM BEING OVER CAPACITY, A NEW PIPE SYSTEM IS BEING DESIGNED OFF-SITE TO TIE TO THE EXISTING POND. THE POND WAS APPROVED UNDER ERP PERMIT NO. 033-3008-1 WITH AN IMPERVIOUS LIMITATION OF 88%. IN THE PROPOSED CONDITION, THE SITE WILL BE 7% IMPERVIOUS. THEREFORE, THE DESIGN OF THE HILTON GARDEN INN SITE IS IN CONFORMANCE WITH THE APPROVED DESIGN. SEE THE STORMWATER MANAGEMENT REPORT PREPARED BY INGENIUM ENTERPRISES INC. FOR ADDITIONAL INFORMATION.

CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

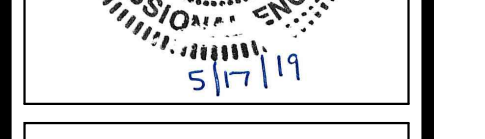
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24-HOUR CONTACT:  
GREG FOX  
(404) 754-8842



PLANNING & ENGINEERING

14491 N DALE HENRY HWY  
SUITE 250  
TAMPA, FL 33648  
813.367.0084  
INGENIUM@INGENIUMTEAM.COM



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HILTON GARDEN INN  
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PENSACOLA, FLORIDA



CLIENT:  
PEACHTREE HOTEL GROUP  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

REVISION HISTORY

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1		
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PROJ #	170071
DWG NAME	170071 C05.DWG
ISSUE DATE	05/17/2019
PROJ TDR	JT

BUILDING AREA  
GRADING DETAIL I

C05.1  
SHEET NUMBER

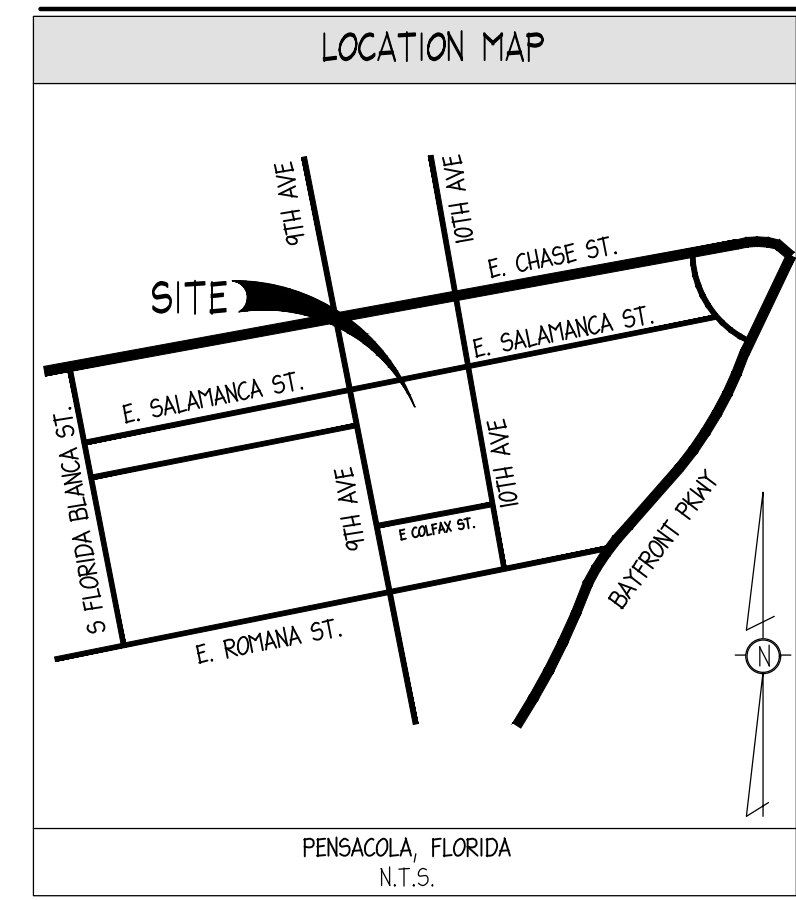
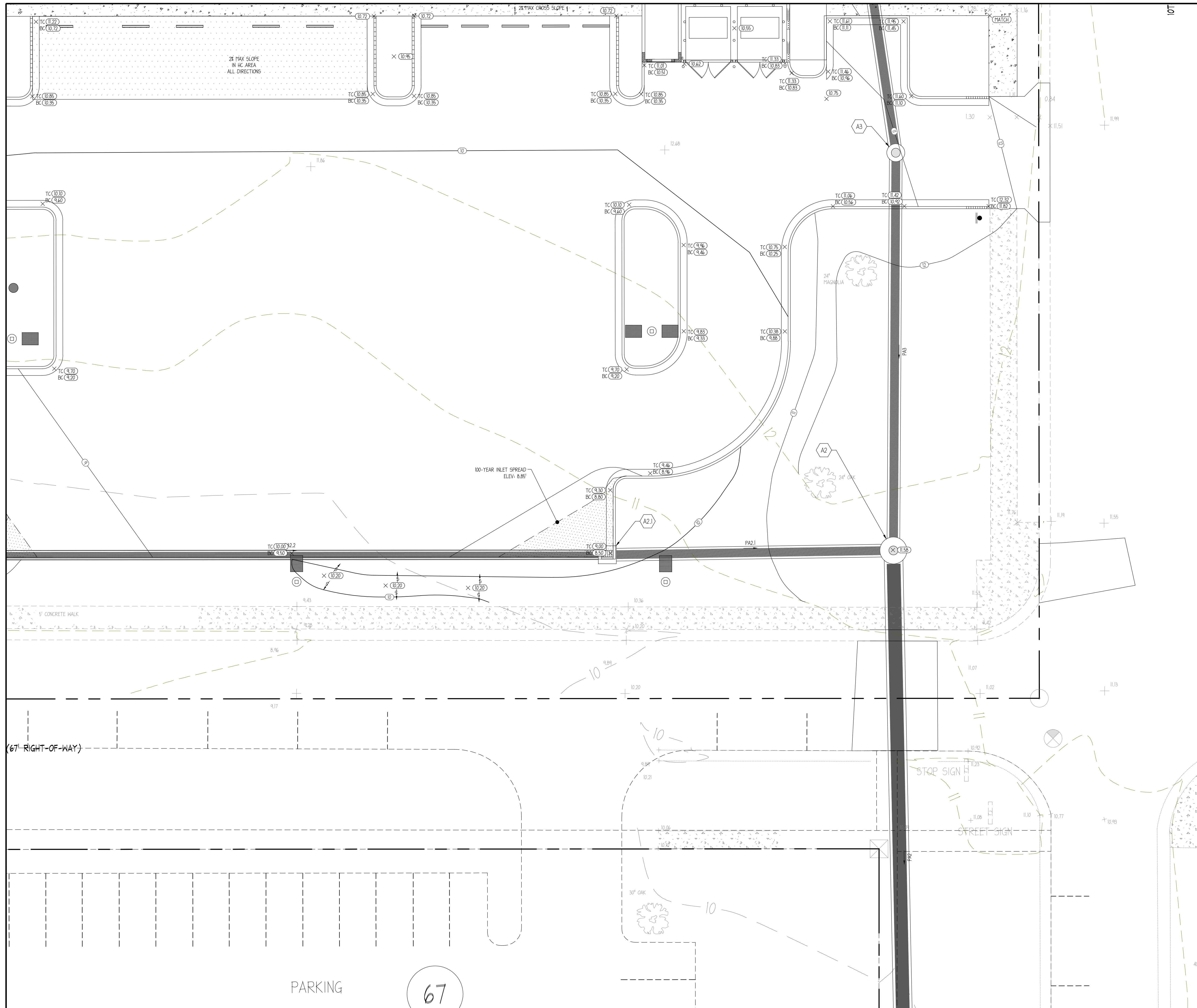
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MATCHLINE - SEE SHEET C05.2

MATCHLINE - SEE SHEET C05.4



**GRADING & DRAINAGE NOTES**

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**HYDROLOGY STATEMENT**

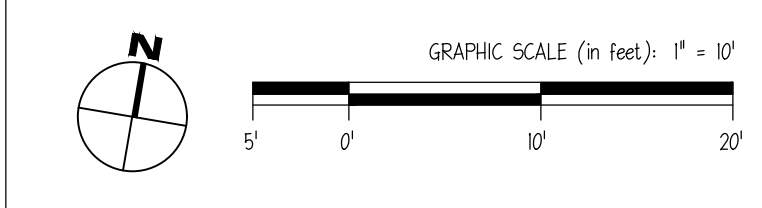
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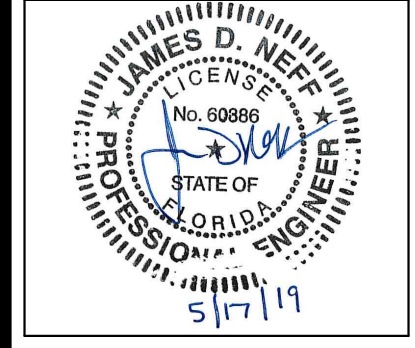
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24-HOUR CONTACT:  
GREG FOX  
(404) 754-8842



**ingenium**  
ENTERPRISES  
PLANNING & ENGINEERING  
14491 N DALE HENRY HWY  
SUITE 250  
TAMPA, FL 33618  
813.367.0084  
INGENIUM@INGENIUMCORP.COM



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HILTON GARDEN INN  
EAST SALAMANCA STREET  
PENSACOLA, FLORIDA



CLIENT:  
**PEACHTREE HOTEL GROUP**  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

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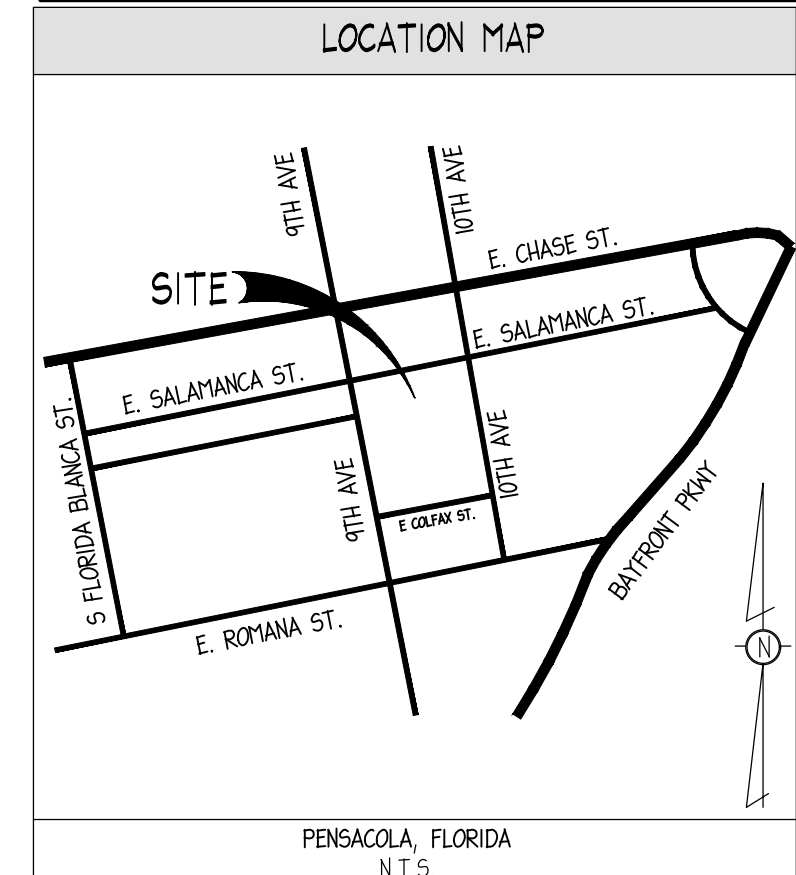
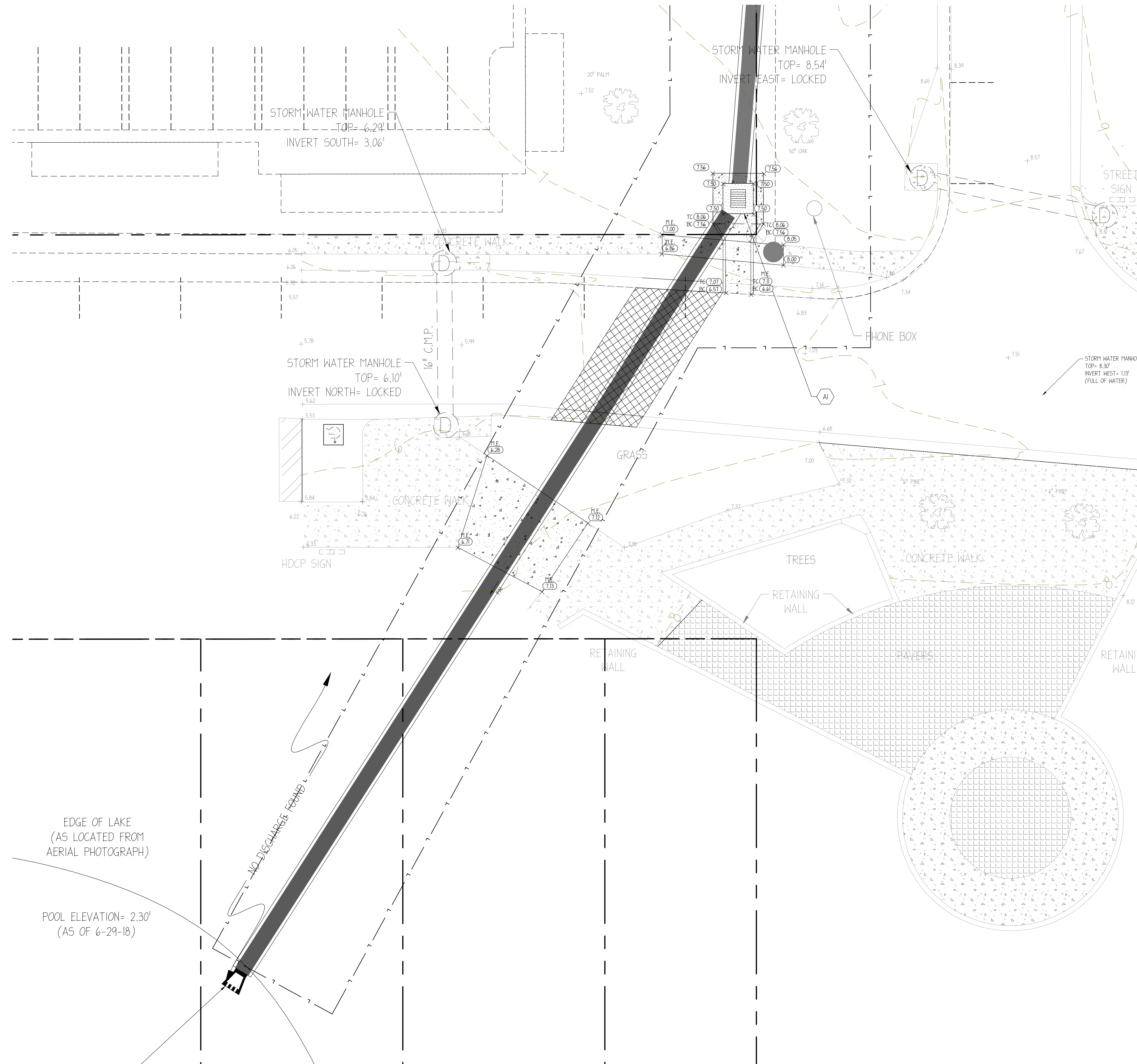
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PROJ # 170071  
DWG NAME 170071 C05.DWG  
ISSUE DATE 05/17/2019  
PROJ TDR# 31

BUILDING AREA  
GRADING DETAIL III  
C05.3  
SHEET NUMBER

ISSUE FOR PERMIT/PRICING





**GRADING & DRAINAGE NOTES**

- SEE LANDSCAPE PLAN FOR REQUIRED TREES AND GROUND COVER.
- SLOPE OF SURFACE GRADE SHALL BE A MINIMUM OF 1:100.
- MAXIMUM CUT OF FILL SLOPES IS 2H:1V.
- THE CONTRACTOR SHALL PROVIDE CLEAN, SUITABLE MATERIAL FOR REQUIRED FILL. SHOULD A SUFFICIENT QUANTITY OF SUITABLE MATERIAL NOT BE AVAILABLE FROM THE REQUIRED EXCAVATION ON THE SITE.
- ALL FILL SHOULD BE PLACED IN THIN, HORIZONTAL LOOSE LIFTS (MAXIMUM 6-INCH) AND COMPACTED TO AT LEAST 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). THE UPPER 8 INCHES OF SOIL BENEATH PAVEMENTS AND SLAB-ON-GRADE SHOULD BE COMPACTED TO AT LEAST 100 PERCENT. COMPACTION MUST BE CERTIFIED BY A GEORGIA REGISTERED PROFESSIONAL SOILS ENGINEER PRIOR TO THE INSTALLATION OF PAVEMENTS, CURBS, SIDEWALKS OR FOOTINGS OF ANY TYPE.
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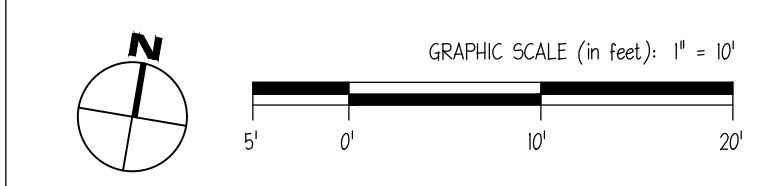
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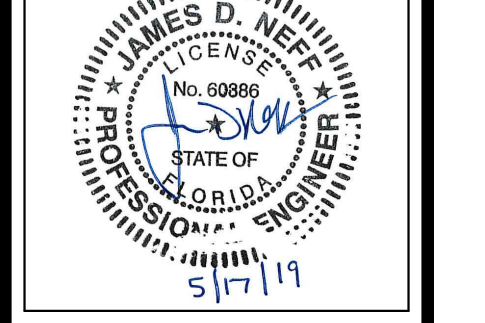
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LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

REVISION HISTORY

1	ISSUE FOR PERMIT/PRICING
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PROJ # 170071  
DWG NAME 170071\_C05.DWG  
ISSUE DATE 05/17/2019  
PROJ TDR# 31

OFFSITE GRADING DETAIL

C05.5  
SHEET NUMBER

ISSUE FOR PERMIT/PRICING





**4.06 SILT FENCE**  
(ES BMP 1.06)

**Definition**

A temporary sediment barrier consisting of a filter fabric stretched across and attached to supporting posts and entrenched. There are two types. The silt fence is a temporary linear filter barrier constructed of synthetic filter fabric, posts, and, depending upon the strength of the fabric used, wire fence for support. The filter barrier is constructed of stakes and burlap or synthetic filter fabric.

**Purposes**

- To intercept and detain small amounts of sediment from disturbed areas during construction operations.
- To decrease the velocity of sheet flows and low-to-moderate level channel flows.

**Conditions When Practice Applies**

- Below disturbed areas where erosion would occur in the form of sheet and rill erosion.
- Where the size of the drainage area is no more than 1/4 acre per 100 feet (1.3 ha /100 m) of silt fence length; the maximum slope length behind the barrier is 100 feet (30 m); and the maximum gradient behind the barrier is 50 percent (2:1).
- In minor swales or ditch lines where the maximum contributing drainage area is no greater than 2 acres (0.8 ha).
- Under no circumstances should silt fences be constructed in live streams or in swales or ditch lines where flows are likely to exceed one cubic foot per second (cfs)(0.03 m<sup>3</sup>/sec.). See Design Criteria for further clarification.

**Planning Considerations**

Silt fences can trap a much higher percentage of suspended sediments than can straw bales and may be preferable to straw barriers in many cases. While the failure rate of silt fences is lower than that of straw barriers, this failure rate is still due mainly to improper installation. The most effective application is to install two parallel silt fences spaced a minimum of three feet apart. The installation and maintenance methods outlined here can improve performance.

Filter barriers are inexpensive structures composed of burlap or standard weight synthetic filter fabric stapled to wooden stakes. Flow rates through burlap filter barriers are slightly slower and filtering efficiency is significantly higher than for straw bale barriers.

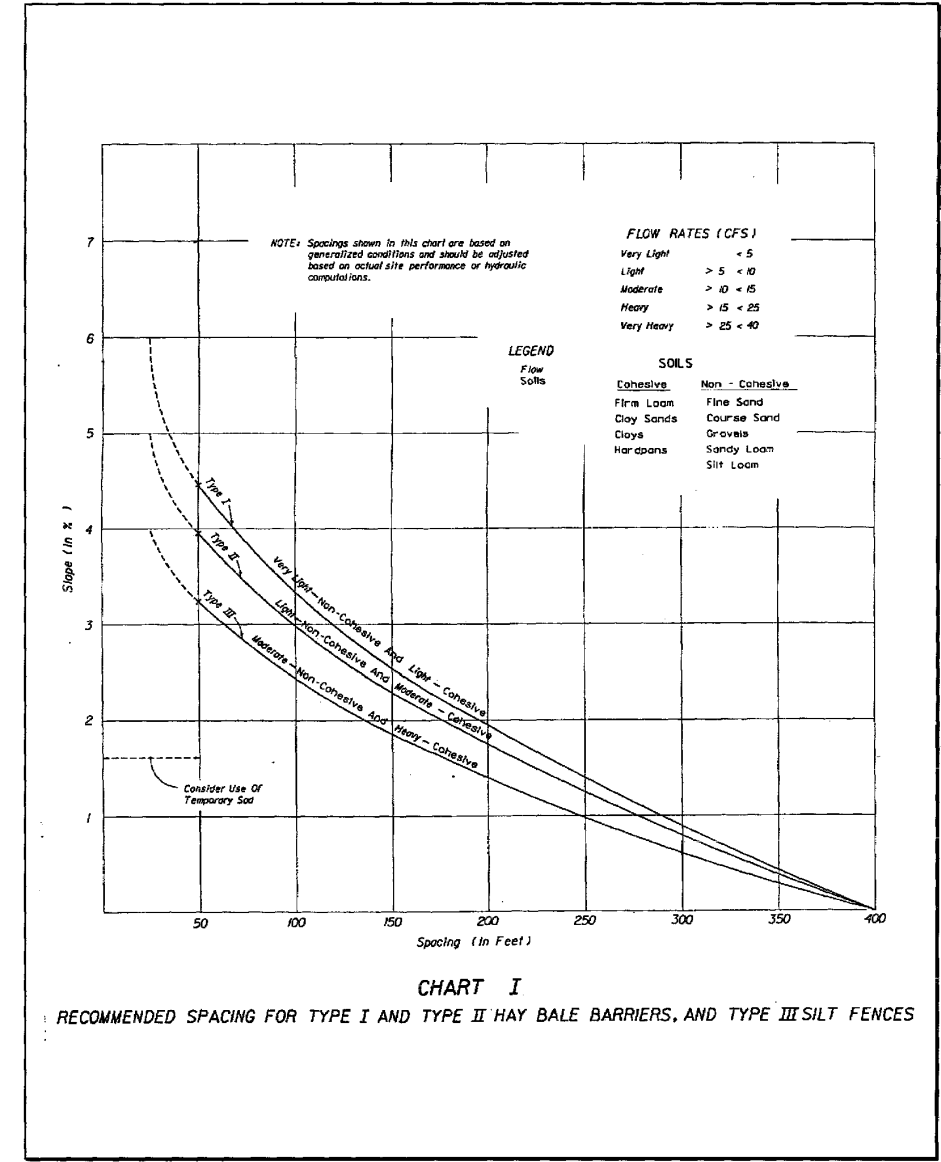


Plate 4.06a FDOT Standard Index 102, Chart 1  
Source: FDOT Roadway and Traffic Design Standards

Silt fences composed of a wire support fence and an attached synthetic filter fabric slow the flow rate significantly but have a higher filtering efficiency than burlap. Both woven and non-woven synthetic fabrics are commercially available. The woven fabrics generally display higher strength than the non-woven fabrics. When tested under acid and alkaline water conditions, most of the woven fabrics increase in strength. There are a variety of reactions among the non-woven fabrics. The same is true of testing under extensive ultraviolet radiation. Permeability rates vary regardless of fabric type. While all of the fabrics demonstrate very high filtering efficiencies for sandy sediments, there is considerable variation among both woven and non-woven fabrics when filtering the finer silt and clay particles.

**Design Criteria**

- No formal design is required for many small projects and for minor and incidental applications. For channel flow applications refer to FDOT Standard Index 102, Chart 1 (Plate 4.06a) for guidance on recommended spacing.
- Filter barriers shall have an expected usable life of 3 months. They are applicable in ditch lines, around drop inlets, and at temporary locations where continuous construction changes the earth contour and runoff characteristics and where low or moderate flows (not exceeding 1 cfs) (0.03 m<sup>3</sup>/sec.) are expected.
- Silt fences, because they have much lower permeability than burlap filter barriers, have their applicability limited to situations in which only sheet or overland flows are expected. They normally cannot filter the volumes of water generated by channel flows, and many fabrics do not have sufficient structural strength to support the weight of water ponded behind the fence line. Their expected usable life is 6 months.

**Construction Specifications**

**Materials**

- Synthetic filter fabric shall be a pervious sheet of poly/ene, nylon, polyester, or polyethylene yarn. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of 6 months of expected usable construction life at a temperature range of 0° F to 120° F (-17C to 49C).
- Burlap shall be 10 ounces per square yard (340 gm<sup>2</sup>) fabric.
- Posts for silt fences shall be either 4 inch (10 cm) diameter wood, or 1.33 pounds per linear foot (2 kg/m) steel with a minimum length of 5 feet (1.5 m). Steel posts shall have projections for fastening wire to them.
- Stakes for filter barriers shall be 1" x 2" (2.5 x 5 cm) wood (preferred), or equivalent material with a minimum length of 3 feet (90 cm).

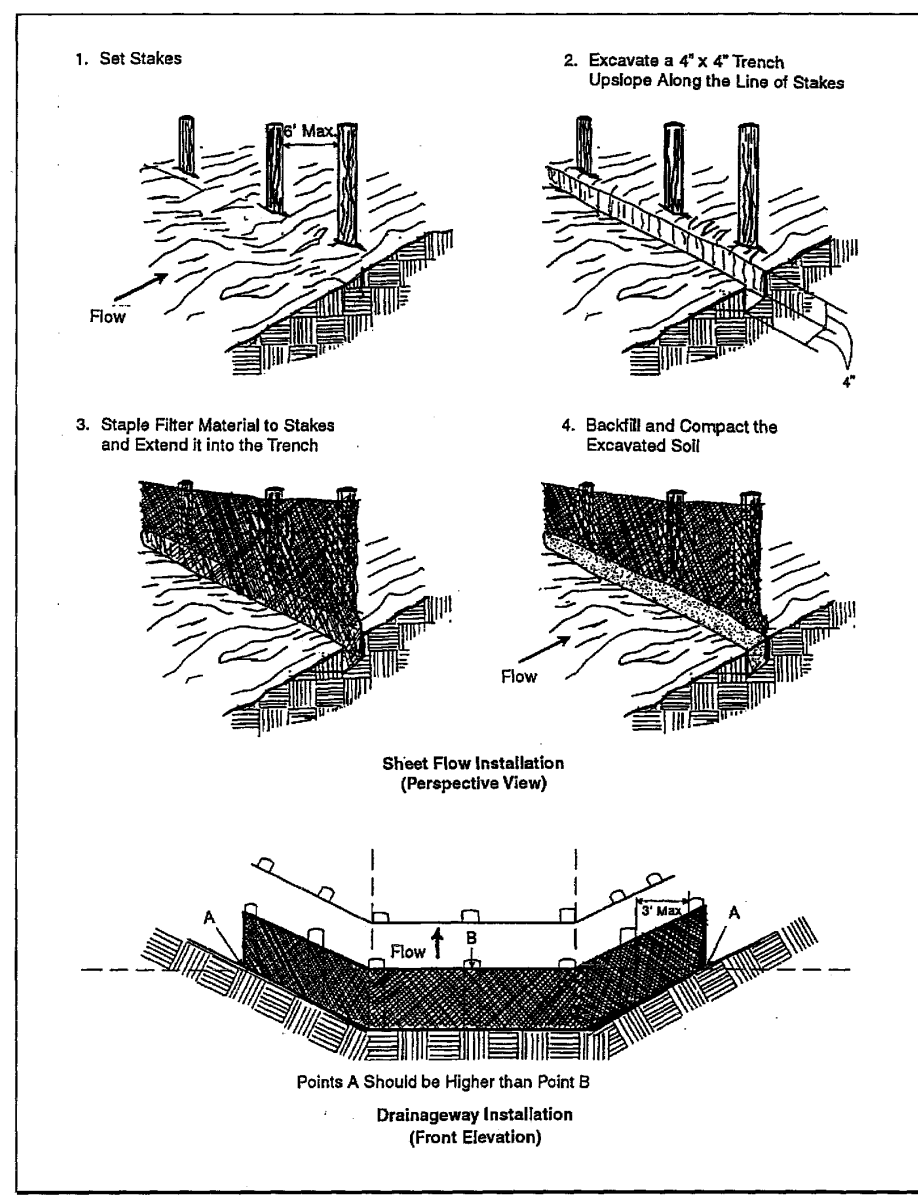


Plate 4.06b Construction of a Filter Barrier  
Source: NRCGS

- Wire fence reinforcement for silt fences using standard strength filter cloth shall be a minimum of 36 inches (90 cm) in height, a minimum of 14 gauge and shall have a maximum mesh spacing of 6 inches (15 cm).

**Sheet Flow Applications: Filter Barrier**

This sediment barrier may be constructed using burlap or standard strength synthetic filter fabric. It is designed for low or moderate flows not exceeding 1 cfs (0.03 m<sup>3</sup>/sec.). (See Plate 4.06b)

- The height of a filter barrier shall be a minimum of 15 inches (38 cm) and shall not exceed 18 inches (45 cm).
- Burlap or standard strength synthetic filter fabric shall be purchased in a continuous roll and cut to the length of the barrier to avoid the use of joints (and thus improve the strength and efficiency of the barrier).
- The stakes shall be spaced a maximum of 3 feet (90 cm) apart at the barrier location and driven securely into the ground a minimum of 8 inches (20 cm).
- A trench shall be excavated approximately 4 inches (10 cm) wide and 4 inches (10 cm) deep along the line of stakes and upslope from the barrier.
- The filter material shall be stapled to the wooden stakes, and 8 inches (20 cm) of the fabric shall be extended into the trench. Heavy duty wire staples at least 1/2 inch (13 mm) long, hog rings, or tie wire shall be used. Filter material shall not be stapled to existing trees.
- The trench shall be backfilled and the soil compacted over the filter material.
- Filter barriers shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.

**Sheet Flow Application: Silt Fence**

This sediment barrier uses standard strength or extra strength synthetic filter fabrics. It is designed for situations in which only sheet or overland flows are expected. (See Plate 4.06c)

- The height of a silt fence shall not exceed 36 inches (90 cm). Higher fences may impound volumes of water sufficient to cause failure of the structure.
- The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced as described in item No. 8 below.

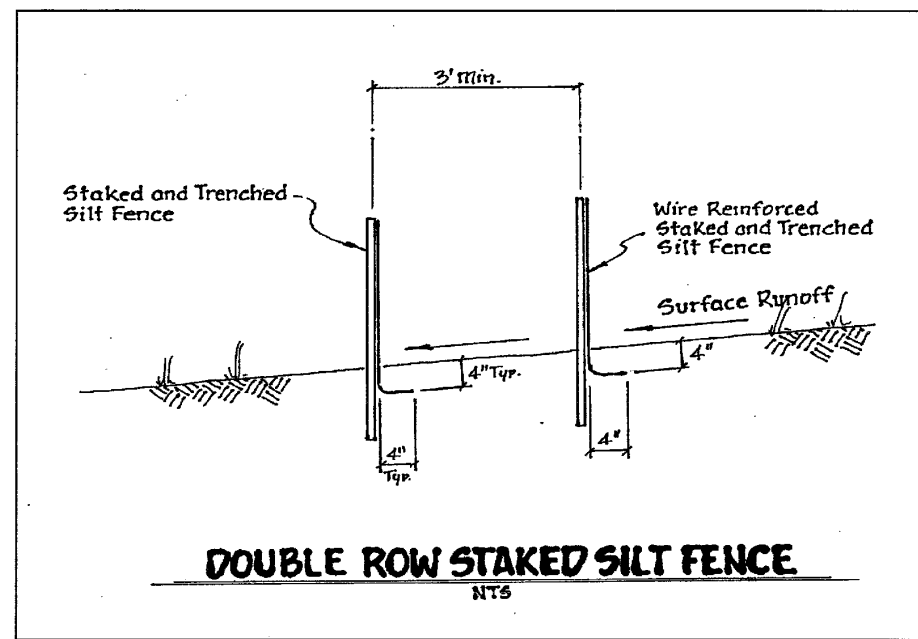


Plate 4.06c Double Row Staked Silt Fence  
Source: Ready Creek Improvement District

- Posts shall be spaced a maximum of 10 feet (3 m) apart at the barrier location and driven securely into the ground a minimum of 12 inches (30 cm). When extra strength fabric is used without the wire support fence, post spacing shall not exceed 6 feet (1.8 m).
- A trench shall be excavated approximately 4 inches (10 cm) wide and 4 inches (10 cm) deep along the line of posts and upslope from the barrier.
- When standard strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least 1 inch (25 mm) long, tie wires, or hog rings. The wire shall extend into the trench a minimum of 2 inches (5 cm) and shall not extend more than 36 inches (90 cm) above the original ground surface.
- The standard strength filter fabric shall be stapled or wired to the fence, and 8 inches (20 cm) of the fabric shall be extended into the trench. The fabric shall not extend more than 36 inches (90 cm) above the original ground surface.

- When extra strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts with all other provisions of item No. 6 applying.
- When attaching two silt fences together, place the end post of the second fence inside the end post of the first fence. Rotate both posts at least 180 degrees on a clockwise direction to create a tight seal with the filter fabric. Drive both posts into the ground and bury the flap. (See Plate 4.06g)
- The trench shall be backfilled and the soil compacted over the filter fabric.
- The most effective application consists of a double row of silt fences spaced a minimum of three feet apart. The three foot separation is so that if the first row collapses it will not fall on the second row. Wire or synthetic mesh is may be used to reinforce the first row. (See Plate 4.06c)
- When used to control sediments from a steep slope, silt fences should be placed away from the toe of the slope for increased holding capacity. (See Plate 4.06f)
- Silt fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.

**Channel Flow Applications**

- If a filter barrier is to be constructed across a ditch line or swale, the barrier shall of sufficient length such that the bottom of the end sections of fence are higher in elevation than the top of the center section to eliminate end flow. The plan configuration shall resemble an arc or horseshoe with the ends oriented upslope. (See Plate 4.06b).
- Use FDOT Standard Index 102, Chart 1(Plate 4.06a) as a guide for spacing.
- The remaining steps for installing a filter barrier for sheet flow applications apply here.

**Maintenance**

- Silt fences and filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.
- Should the fabric on a silt fence or filter barrier decompose or become ineffective before the end of the expected usable life and the barrier still be necessary, the fabric shall be replaced promptly.
- Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier.

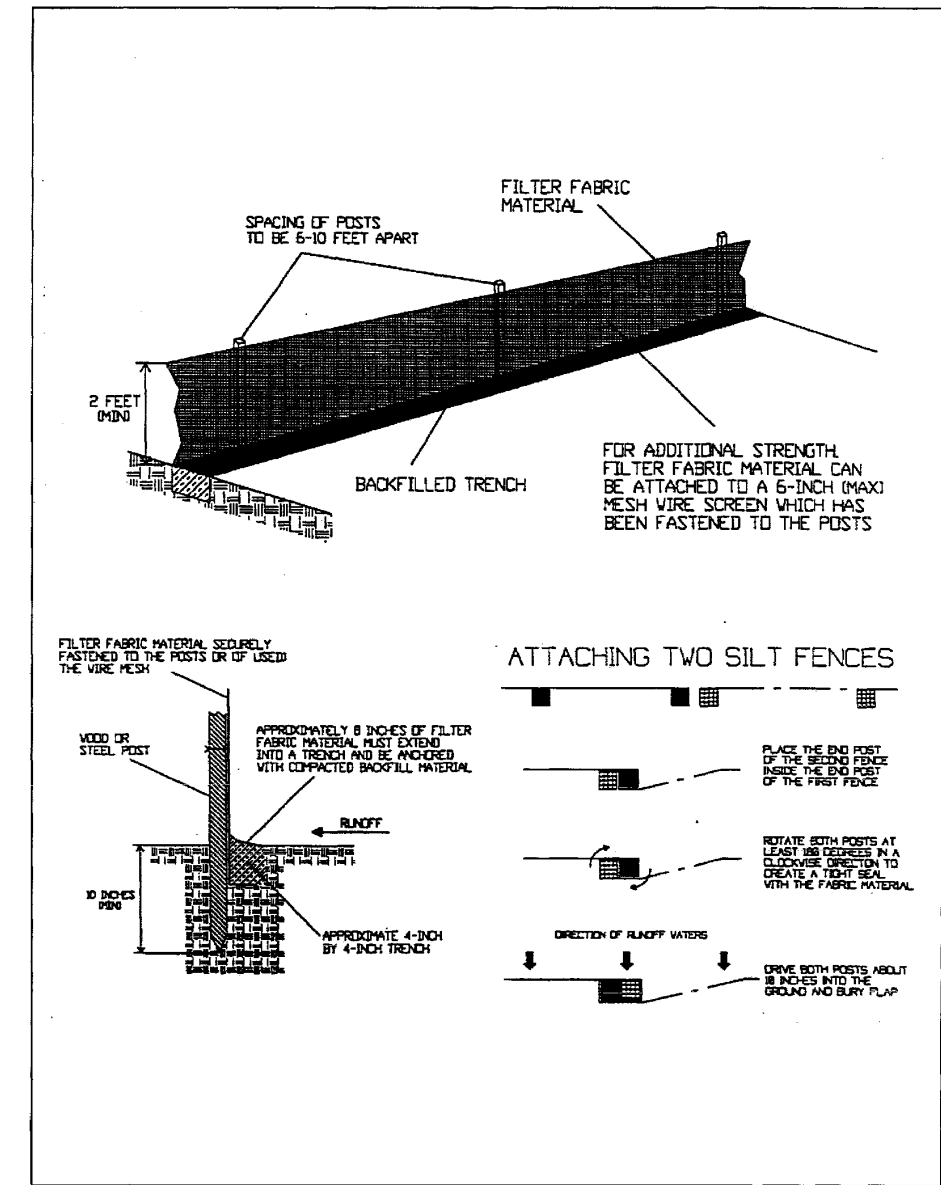


Plate 4.06d Installing a Filter Fabric Silt Fence  
Source: HydroDynamics, Inc.

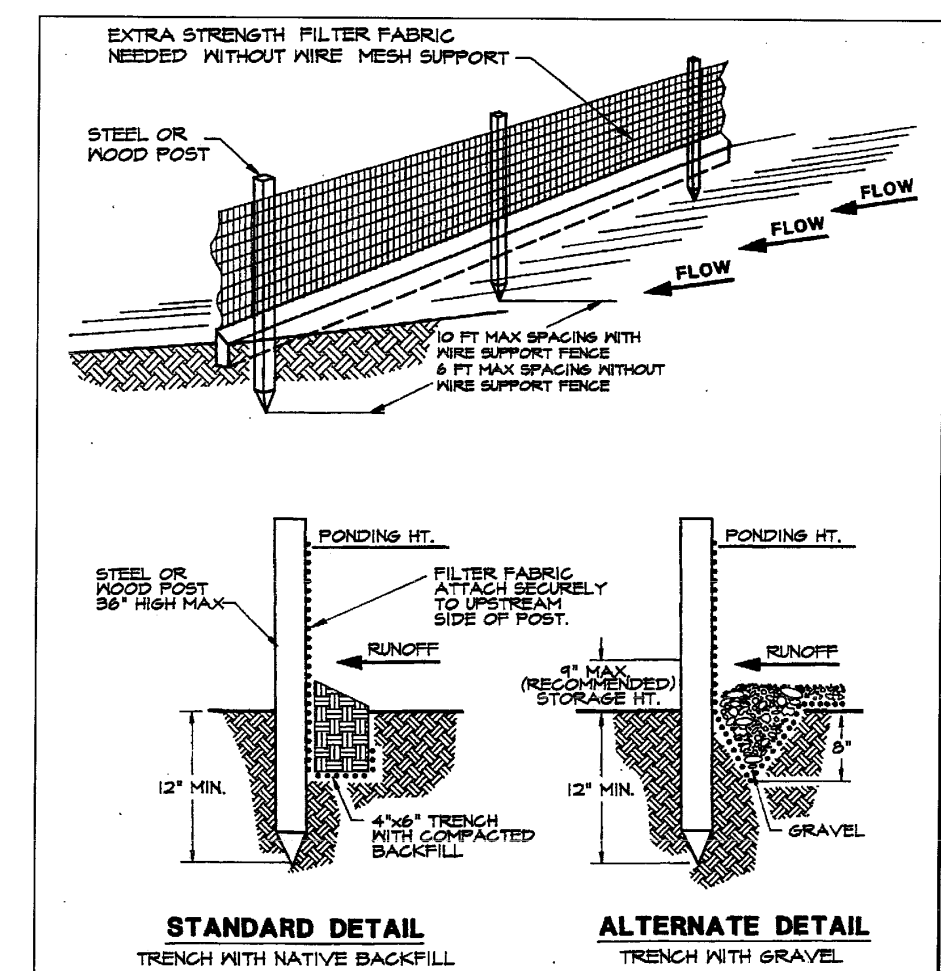


Plate 4.06e Silt Fence  
Source: Erosion Draw

- Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared, and seeded.

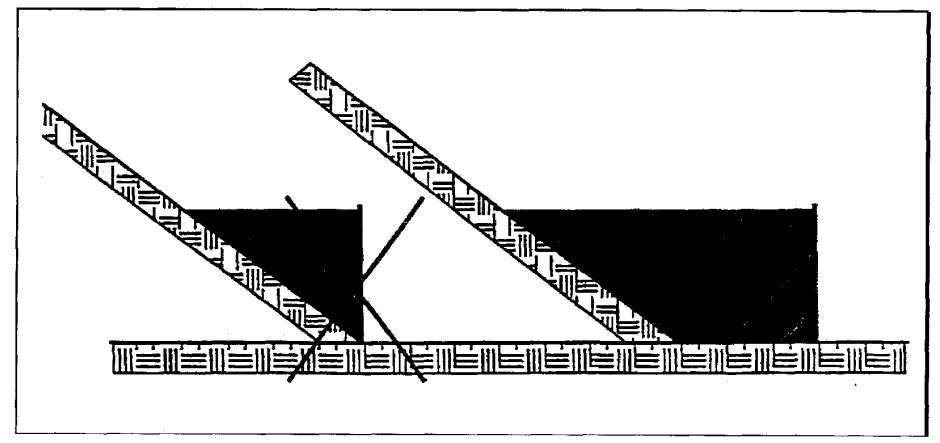


Plate 4.06f Proper Placement of a Silt Fence at the Toe of a Slope  
Source: HydroDynamics, Inc.

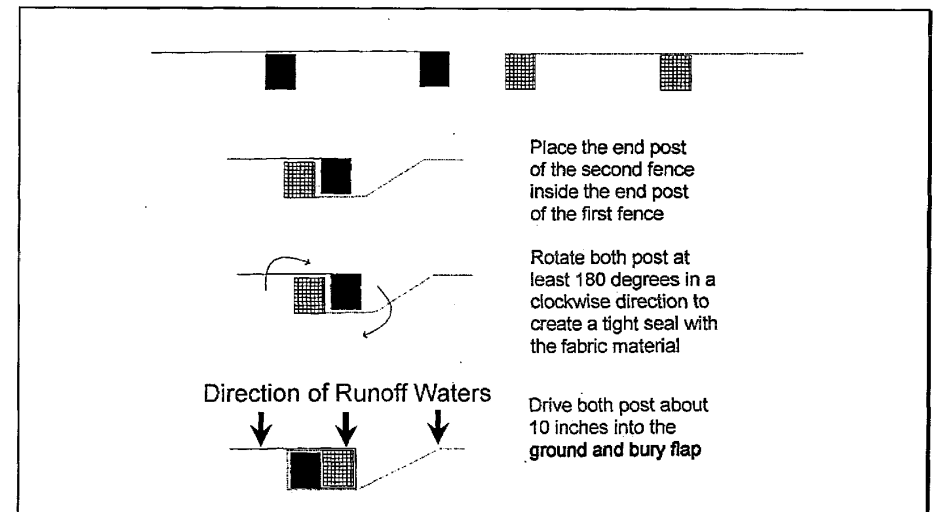


Plate 4.06g Attaching Two Silt Fences  
Source: HydroDynamics, Inc.

**4.03 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE & EXIT**  
(ES BMP 1.01)

**Definition**

A stone stabilized pad located at points of vehicular ingress and egress on a construction site.

**Purpose**

To stabilize entrances to the construction site and reduce the amount of sediment transported onto public roads by motor vehicles or runoff.

**Conditions Where Practice Applies**

Whenever traffic will be leaving a construction site and moving directly onto a public road or other paved area.

**Planning Considerations**

Construction entrances provide an area where mud can be removed from construction vehicle tires before they enter a public road. If the action of the vehicle traveling over the gravel pad is not sufficient to remove most of the mud, then the tires must be washed before the vehicle enters a public road. If washing is used, provisions must be made to intercept the wash water and trap the sediment before it is carried off-site. Construction entrances should be used in conjunction with the stabilization of construction roads to reduce the amount of mud picked up by construction vehicles.

**Design Criteria**

**Aggregate Size**

FDOT No. 1 Coarse Aggregate (1.5 - 3.5 inch stone)(4 - 9 cm) should be used. Wood chips may be used for single family residential construction, provided that they can be prevented from floating away in a storm.

**Entrance Dimensions**

The aggregate layer must be at least 6 inches (15 cm) thick. It must extend the full width of the vehicular ingress and egress area. The length of the entrance must be at least 50 feet (20 m). The entrance must widen at its connection to the roadway in order to accommodate the turning radius of large trucks. (See Plate 4.03a)

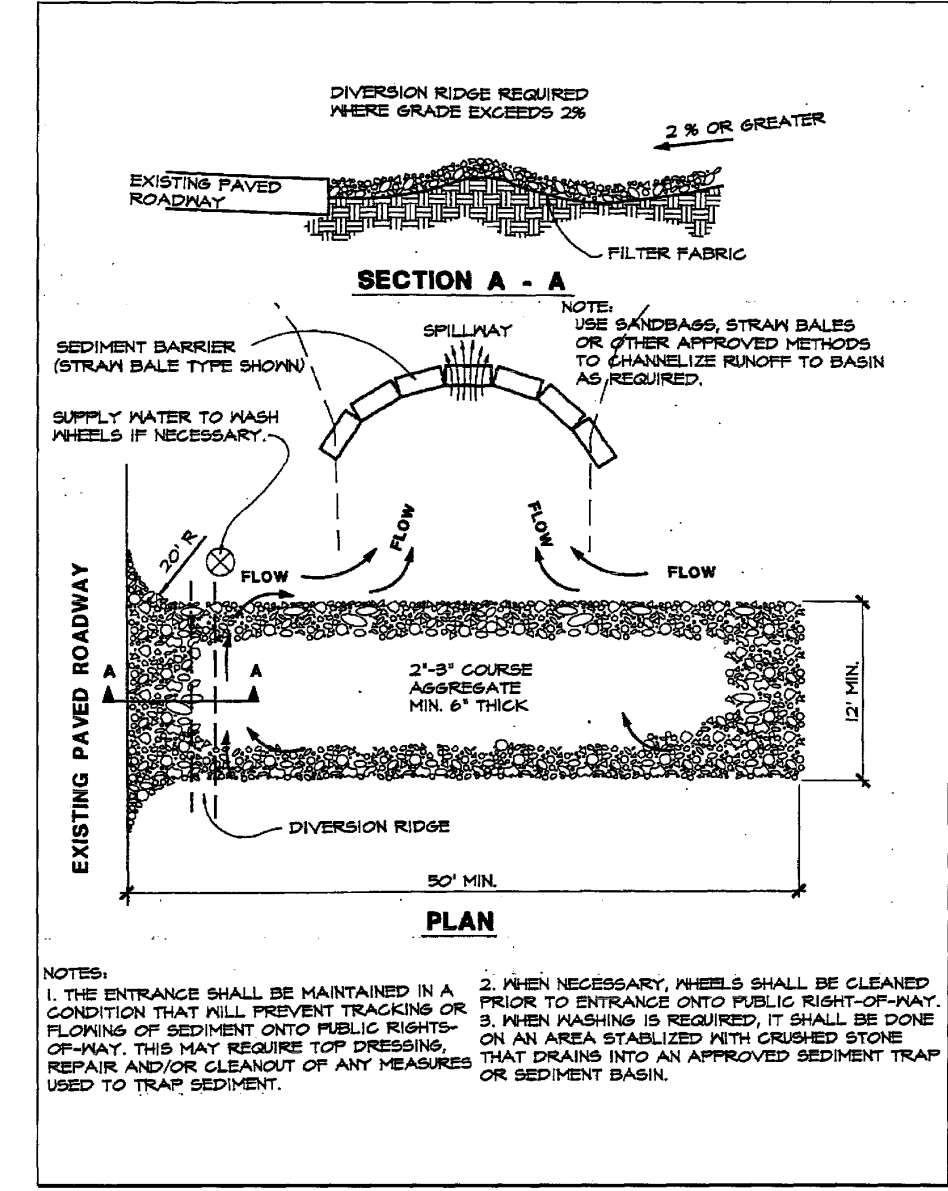


Plate 4.03a Temporary Gravel Construction Entrance  
Source: Erosion Draw

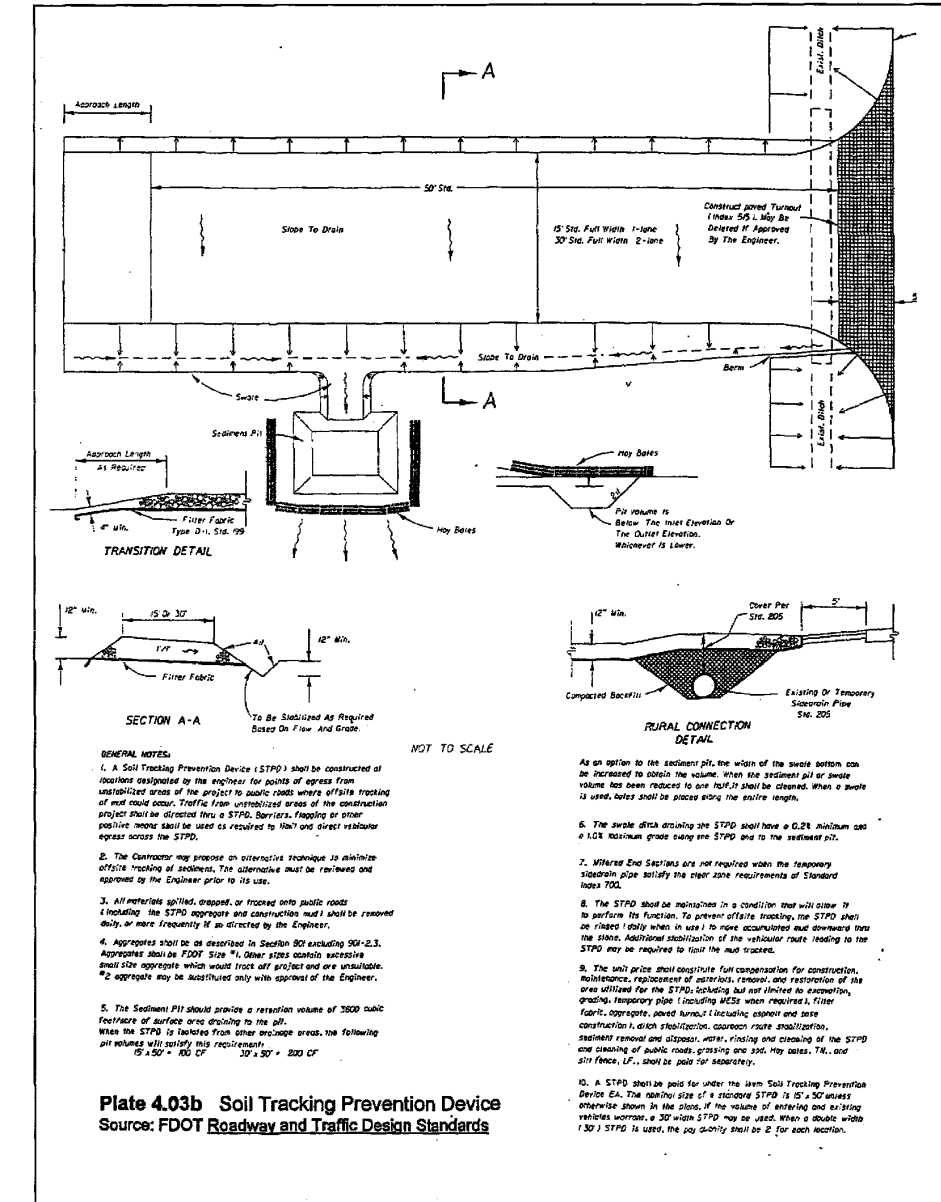


Plate 4.03b Soil Tracking Prevention Device  
Source: FDOT Roadway and Traffic Design Standards

Plate 4.03c Construction Entrance with Wash Rack  
Source: 1993 Maryland Standards for Soil Erosion and Sediment Control

If conditions on the site are such that most of the mud is not removed by the vehicles traveling over the gravel, then the tires of the vehicles must be washed before entering a public road. Wash water must be carried away from the entrance to a settling area to remove sediment (See Plate 4.03b). A wash rack may also be used to make washing more convenient and effective. (See Plate 4.03c).

**Location**

The entrance should be located to provide for maximum utility by all construction vehicles.

**Construction Specifications**

The area of the entrance should be cleared of all vegetation, roots, and other objectionable material. A geotextile should be laid down to improve stability and simplify maintenance. The gravel shall then be placed over the geotextile to the specified dimensions.

Any drainage facilities required because of washing should be constructed according to approved specifications. If wash racks are used, they should be installed according to manufacturer's specifications.

**Maintenance**

The entrance shall be maintained in a condition which will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 2-inch (5 cm) stone, as conditions demand, and repair and/or clean out of any structures used to trap sediments. All materials spilled, dropped, washed, or tracked from vehicles onto roadways or into storm drains must be removed immediately. Look for signs of trucks and trailer equipment "cutting corners" where the gravel meets the roadway. Sweep the paved road daily for sediments and stones.

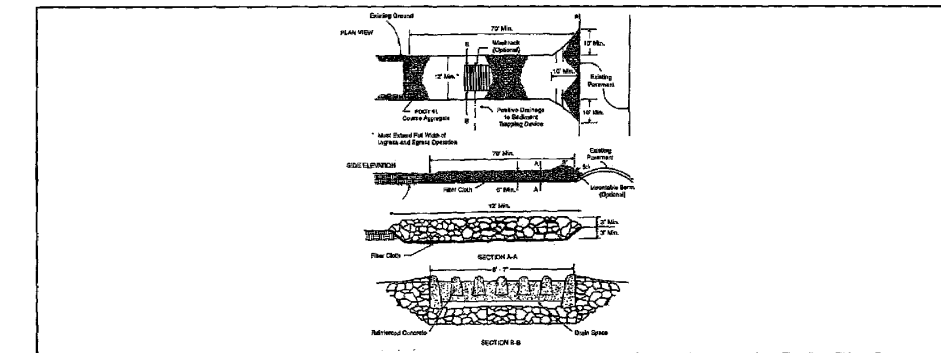
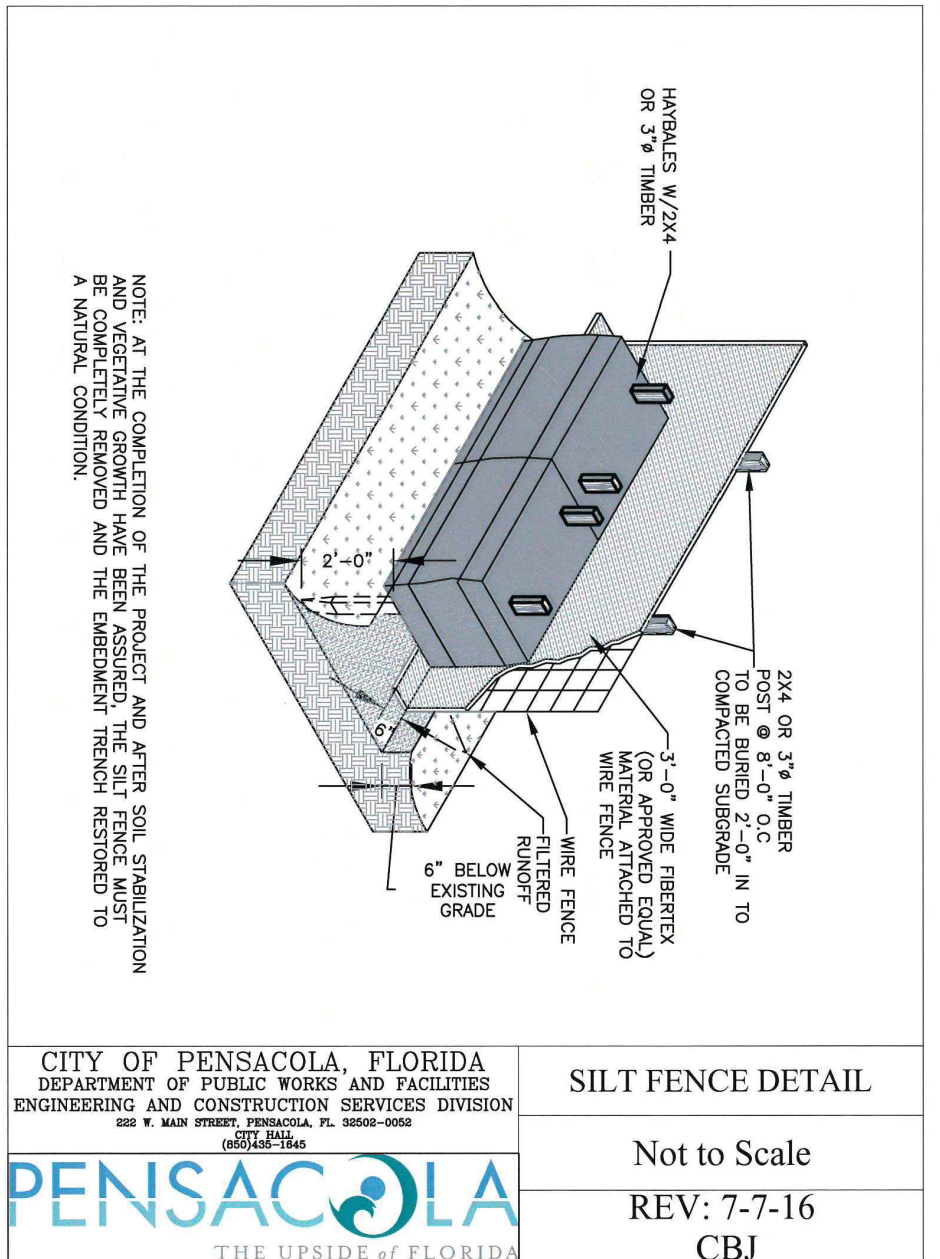


Plate 4.03c Construction Entrance with Wash Rack  
Source: 1993 Maryland Standards for Soil Erosion and Sediment Control

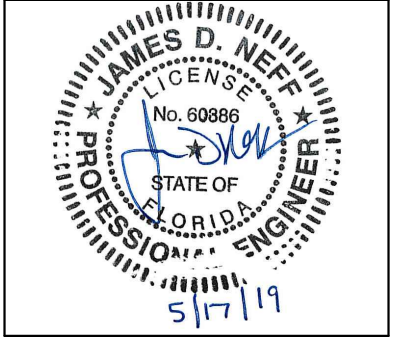


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CLIENT:  
**PEACHTREE HOTEL GROUP**  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
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PROJ. #	170071
DWG. NAME	170071.C06.DWG
ISSUE DATE	05/17/2014
PROJ. TSGR.	JT

ESPC DETAILS 1

C06.2  
SHEET NUMBER

SF SEDIMENT FENCE NTS

CE CONSTRUCTION EXIT NTS

ISSUE FOR PERMIT/PRICING

**6.65 TEMPORARY SEEDING**  
(ES BMP 1.65)

**Definition**  
The establishment of a temporary vegetative cover on disturbed areas by seeding with appropriate rapidly growing annual plants.

**Purposes**

- To reduce erosion and sedimentation by stabilizing disturbed areas that will not be brought to final grade for a 30days or more.
- To reduce problems associated with mud and dust production from bare soil surfaces during construction.

**Conditions Where Practice Applies**  
Where exposed soil surfaces are not to be fine graded for periods from 30 days or more. Such areas include denuded areas, soil stockpiles, dikes, dams, sides of sediment basins, temporary roadbanks, etc.

**Specifications**  
Prior to seeding, install necessary erosion control practices such as dikes, waterways, and basins.

**Plant Selection**  
Select plants appropriate to the season, region, and site conditions. Consult with your local Agricultural Extension agent, county, FDEP, WMD, or FDOT office, or Table 1.65a of The Florida Development Manual.

**Seedbed Preparation**  
To control erosion on bare soil surfaces, plants must be able to germinate and grow. Seedbed preparation is essential. A soil test should be taken to determine liming and fertilization requirements. In the absence of a soil test the following guidelines should be followed:

- Liming:** Where soils are known to be highly acid (pH 6.0 and lower), lime should be applied at the rate of two tons of pulverized agricultural limestone per acre.
- Fertilizer:** Shall be applied as 450 lbs./acre of 10-20-20 (10 lbs./1,000 sq. ft.)(504 kg/ha) or equivalent. Lime and fertilizer shall be incorporated into the top 2 to 4 inches (5 to 10 cm) of the soil.
- Surface Roughening:** If the area has been recently loosened or disturbed, no further roughening is required. When the area is compacted, crusted, or hardened, the soil surface shall be loosened by disking, raking, harrowing, or other acceptable means. See SURFACE ROUGHENING - Section 6.60 (ES BMP 1.60).
- Tracking:** Tracking with bulldozer cleats is most effective on sandy soils. This practice often causes undue compaction of the soil surface, especially in clayey soils, and does not aid plant growth as effectively as other methods of surface roughening.

**Seeding**  
Seed shall be evenly applied with a cyclone seeder, drill, cut/packer seeder or hydroseeder. Small grains shall be planted no more than one inch deep. Grasses and legumes shall be planted no more than 1/4 inch (6 mm) deep.

**Mulching**  
1. Mulching should usually be used to reduce damage from water runoff or wind erosion, and to improve moisture conditions for seedlings. Mulching without seeding should be considered for very short term protection. The use of mulch is a judgment decision based on time of seeding and conditions of individual sites. When used, mulch shall be applied according to MULCHING - Section 6.75 (ES BMP 1.75).

- Seedings made on slopes in excess of 3:1, or on adverse soil conditions, or during excessively hot or dry weather, shall be mulched according to MULCHING - Section 6.75 (ES BMP 1.75).
- Seedings made during optimum spring and summer seeding dates, with favorable soil and site conditions, may not require mulch.

**Re-seeding**  
Areas which fail to establish vegetative cover adequate to prevent rill erosion will be filled in with proper topsoil and re-seeded as soon as such areas are identified.

**6.66 PERMANENT SEEDING**  
(ES BMP 1.66)

**Definition**  
The establishment of perennial vegetative cover on disturbed areas by planting seed.

**Purposes**

- To reduce erosion and decrease sediment yield from disturbed areas.
- To permanently stabilize disturbed areas in a manner that is economical, adaptable to site conditions, and allows selection of the most appropriate plant materials.

**Conditions Where Practice Applies**

- Disturbed areas where permanent, long-lived vegetative cover is needed to stabilize the soil.
- Rough-graded areas which will not be brought to final grade for a year or more.

**Specifications**  
**Selection of Plant Materials**

- Selection of plant materials is based on climate, topography, soils, land use, and planting season. To determine which plant materials are best adapted to a specific site, use Tables 1.66b and 1.66c of The Florida Development Manual which describe plant characteristics and list recommended varieties.
- Appropriate seeding mixtures for various site conditions in Florida are given in Table 1.66a of The Florida Development Manual. These mixtures are designed for general use, and are known to perform well on the sites described. Adhere to these mixtures whenever feasible. Check Tables 1.66b and 1.66c for recommended varieties.

**Seedbed Requirements**  
Vegetation should not be established on slopes that are unsuitable due to inappropriate soil texture, poor internal structure or internal drainage, volume of overland flow, or excessive steepness, until measures have been taken to correct these problems.

To maintain a good stand of vegetation, the soil must meet certain minimum requirements as a growth medium. The existing soil must have these criteria:

- Enough fine-grained material to maintain adequate moisture and nutrient supply.
- Sufficient pore space to permit root penetration. A bulk density of 1.2 to 1.5 indicates that sufficient pore space is present. A fine granular or crumb-like structure is also favorable.
- Sufficient depth of soil to provide an adequate root zone. The depth to rock or impermeable layers such as hardpans shall be 12 inches (30 cm) or more, except on slopes steeper than 2:1 where the addition of soil is not feasible.
- A favorable pH range for plant growth. If the soil is so acid that a pH range of 6.0 - 7.0 cannot be attained by addition of pH-modifying materials, then the soil is considered an unsuitable environment for plant roots.
- Freedom from toxic amounts of materials harmful to plant growth.
- Freedom from excessive quantities of roots, branches, large stones, large clods of earth, or trash of any kind. Clods and stones may be left on slopes steeper than 3:1 if they are to be hydroseeded.

If any of the above criteria cannot be met, i.e., if the existing soil is too coarse, dense, shallow, acid, or contaminated to foster vegetation, then topsoil should be applied in accordance with TOPSOILING - Section 6.61 (ES BMP 1.61).

Necessary mechanical erosion and sediment control practices will be installed prior to seeding. Grading will be carried out according to the approved plan.

Surfaces will be roughened in accordance with SURFACE ROUGHENING - Section 6.60 (ES BMP 1.60).

**Soil Conditions**  
In order to modify the texture, structure, or drainage characteristics of a soil, the following materials may be added to the soil:

- Peat shall be sphagnum moss peat, hypnum moss peat, reed-sedge peat or peat humus, from fresh-water sources. Peat shall be shredded and conditioned in storage piles for at least six months after excavation.
- Sand shall be clean and free of toxic materials.
- Vermiculite shall be horizontal grade and free of toxic substances.
- Rotted manure shall be stable or cattle manure not containing undue amounts of straw or other bedding materials or toxic chemicals.
- Thoroughly rotted sawdust shall be 6 lbs. of nitrogen added to each cubic yard (3.5 kg/m<sup>3</sup>) and shall be free of stones, sticks, and toxic substances.
- Where local ordinances permit, treated sewage sludge may be used in accordance with local, state, and federal regulations.

**Lime and Fertilizer**  
Lime and fertilizer needs should be determined by soil tests. Soil tests may be performed by the Cooperative Extension Service Soil Testing Laboratory at the U.F., or by a reputable commercial laboratory. Information concerning the State Soil Testing Laboratory is available from county extension agents. Under unusual conditions where it is not possible to obtain a soil test, the following soil amendments will be applied:

**LIME:** 2 tons/acre finely ground agricultural or dolomitic limestone (90 lbs./1000 ft<sup>2</sup>)(4.48 t/ha)

**FERTILIZER:** Mixed grasses and legumes: 1000 lbs./acre 5-20-10 (25 lbs./1000 ft<sup>2</sup>)(1.12 t/ha)

Legume stands only: 1000 lbs./acre 5-20-10 (25 lbs./1000 ft<sup>2</sup>)(1.12 t/ha)

Grass stands only: 1000 lbs./acre 5-20-10 (1.12 t/ha) and 300 lbs. of 58-0-0 in spray (7 lbs./1000 ft<sup>2</sup>)(336 kg/ha)

1000 lbs./acre 10-20-10 (1.12 t/ha) and 300 lbs. of 38-0-0 in fall (7 lbs./1000 ft<sup>2</sup>)(336 kg/ha)

Other fertilizer formulations may be used, provided they can supply the same amounts and proportions of plant nutrients.

**Incorporation** - Lime and fertilizer shall be incorporated into the top 4 - 6 inches (10 - 15 cm) of the soil by disking or other means. When applying lime and fertilizer with a hydroseeder, apply to a rough, loose surface.

**Seeding**

- Certified seed should be used for all permanent seeding whenever possible.
- Legume seed - Legume seed should be inoculated with the inoculant appropriate to the species. Seed of legumes, crown vetch, and clovers should be scarified to promote uniform germination.
- Apply seed uniformly with a cyclone seeder, drill, cut/packer seeder, or hydroseeder on a firm, friable seedbed. Maximum seeding depth should be 1/4 inch.
- Hydroseeding - To avoid seed damage, it is recommended that if a machinery breakdown of 30 minutes to 2 hours occurs, 50% more seed be added to the tank, based on the proportion of the slurry remaining in the tank. Beyond 2 hours, a full rate of new seed may be necessary.

Other hydroseeding contractors prefer not to apply lime in their rigs as it is abrasive. In inaccessible areas, lime may have to be applied in pelletized or liquid form.

separately. Rates of wood fiber should be at least 2000 lbs. per acre (2.24 t/ha). Surface roughening is particularly important when hydroseeding, as a roughened surface will provide some natural coverage of lime, fertilizer, and seed.

- Legume inoculants should be used by the date indicated on the container. When dry seeding use four times the manufacturer's recommended rate and use ten times the recommended rate of inoculant when hydroseeding.

**Mulching**  
All permanent seeding must be mulched immediately upon completion of seed application. Refer to MULCHING - Section 6.75 (ES BMP 1.75).

**Maintenance of New Seedlings**  
Irrigation: New seedlings should be supplied with adequate moisture. Supply water as needed, especially late in the season, in abnormally hot or dry weather, or on adverse slopes. Water application rates should be controlled to prevent runoff. Inadequate amounts of water may be more harmful than no water.

**Re-seeding:** Inspect seeded areas for failure and make necessary repairs and reseedings within the same season, if possible.

- If vegetative cover is inadequate to prevent rill erosion, overseed and fertilize in accordance with soil test results.
- If a stand has less than 40% cover, re-evaluate choice of plant materials and quantities of lime and fertilizer. Re-establish the stand following seedbed preparation and seeding recommendations, omitting lime and fertilizer in the absence of soil test results. NOTE: If vegetation has failed to grow, soil must be tested to determine if acidity or nutrient imbalances are responsible.

**Fertilization:** Seedlings should be fertilized one year after planting to insure proper stand density.

- To established all-grass stands, apply 500 lbs./acre of 10-20-10 (12 lbs./1000 ft<sup>2</sup>)(560 kg/ha) between August 15 and November 15. (The first fall following seeding.)
- To legume-and-grass stands or pure legume stands, apply 500 lbs./acre of 10-20-20 (12 lbs./1000 ft<sup>2</sup>)(560 kg/ha) in early May or between August 15-October 15.

**GENERALLY, A STAND OF VEGETATION CANNOT BE DETERMINED TO BE FULLY ESTABLISHED UNTIL SOIL COVER HAS BEEN MAINTAINED FOR ONE FULL YEAR FROM PLANTING. DISTURBED AREAS WHICH ARE TO BE STABILIZED WITH PERMANENT VEGETATION MUST BE SEEDING OR PLANTED WITHIN 15 DAYS AFTER FINAL GRADE IS REACHED UNLESS TEMPORARY STABILIZATION IS APPLIED.**

**6.67 SODDING**  
(ES BMP 1.67)

**Definition**  
Stabilizing fine-graded disturbed areas by establishing permanent grass stands with sod.

**Purposes**

- To establish permanent turf immediately.
- To prevent erosion and damage from sediment and runoff by stabilizing the soil surface.
- To reduce the production of dust and mud associated with bare soil surfaces.
- To stabilize drainageways where concentrated overland flow will occur.

**Conditions Where Practice Applies**

- Disturbed areas which require immediate vegetative covers, or where sodding is preferred to other means of grass establishment.
- Locations particularly suited to stabilization with sod are:
  - slopes and buffer strips.
  - waterways and swales, especially around drop inlets.
  - residential or commercial lawns where quick use or aesthetics are factors.

**Specifications**  
**Soil Preparation**

- Prior to soil preparation, areas to be sodded shall be brought to final grade in accordance with the approved plan. These operations should leave as much topsoil as possible or replace the topsoil to a depth of four inches (10 cm).
- Soil tests should be made to determine the exact requirements for lime and fertilizer. Soil tests may be conducted by the State Laboratory at the University of Florida or a reputable commercial laboratory. Information on state soil tests is available from county agricultural extension agents.

When a soil test is not made the following soil amendments should be made:

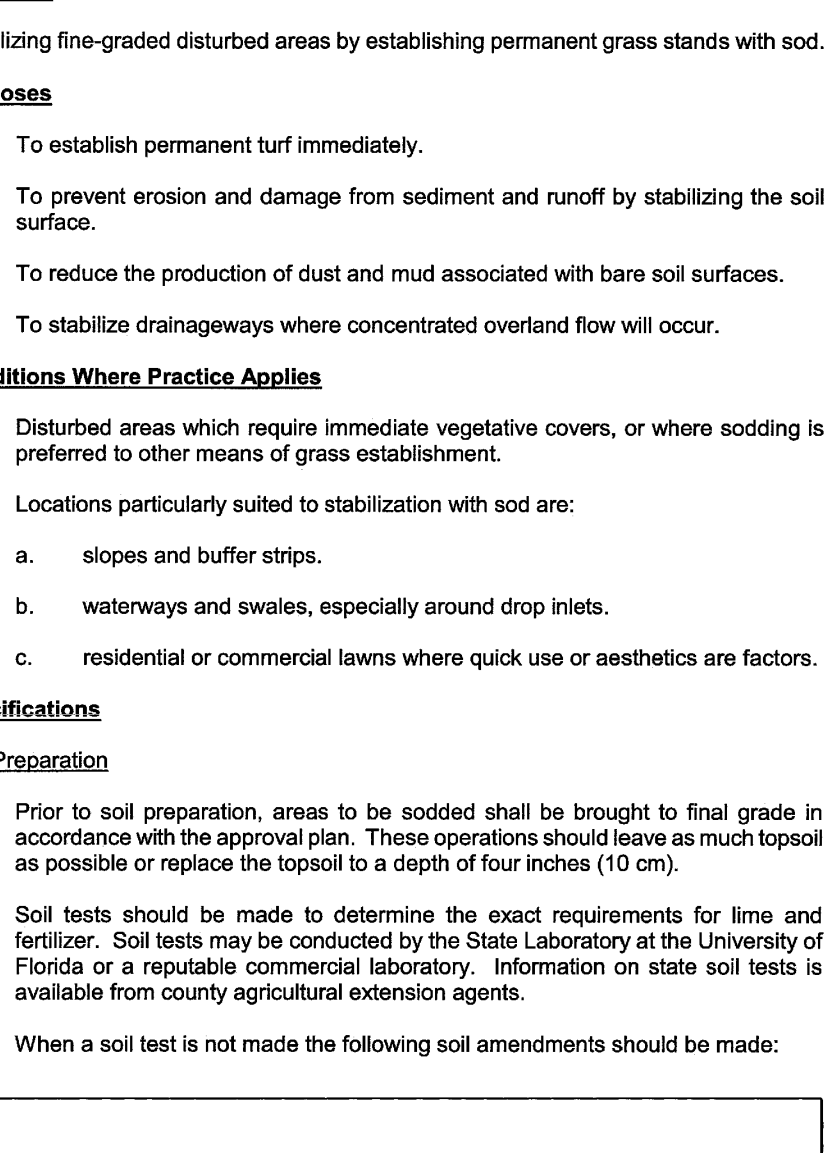


Plate 6.67a Sodding  
Source: Virginia DSWC

**Pulverized agricultural limestone** at 100 lbs./1000 ft<sup>2</sup> (2 tons/acre)(4.48 t/ha)

**Fertilizer** at 25 lbs./1000 ft<sup>2</sup> (1000 lbs./acre)(1.12 t/ha) of 10-10-10 in fall or 25lbs/1000 ft<sup>2</sup> of 5-10-10 in spring. NOTE: Equivalent nutrients may be applied with other fertilizer formulations.

These amendments shall be spread evenly over the area to be sodded, and incorporated into the top 3 - 6 inches (8 - 15 cm) of the soil by disking, harrowing or other acceptable means.

- Prior to laying sod, the soil surface shall be clear of trash, debris, roots, branches, stones and clods in excess of 2 inches (5 cm) in length or diameter. Sod shall not be applied to gravel or other non-soil surfaces.
- Any irregularities in the soil surface resulting from topsoil or other operations shall be filled or leveled in order to prevent the formation of depressions or water pockets.
- Areas to be topsoiled and topsoil used shall fulfill the requirements of TOPSOILING - Section 6.61 (ES BMP 1.61). No sod shall be spread on soil which has been treated with soil sterilants until enough time has elapsed to permit dissipation of toxic materials.

**Sod Quality**

- Sod should be free of weeds and undesirable coarse weedy grasses. If possible, Certified or Approved turfgrass sod should be used.
- Sod shall be machine cut at a uniform soil thickness of 3/4 inch (20 mm), plus or minus 1/4 inch (6 mm), at the time of cutting. This thickness shall exclude shoot growth and thatch.
- Pieces of sod shall be cut to the supplier's standard width and length, with a maximum allowable deviation in any dimension of 5%. Torn or uneven pads will not be acceptable.
- Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended from a firm grasp on one end of the section.
- Sod shall be not cut or laid in excessively wet or dry weather.
- Sod shall be harvested, delivered, and installed within a period of 36 hours

**Sod Installation**

- Sodded Sodding (Plate 6.67a)**
  - Irrigate areas to be sodded with a minimum of 1/2-inch (13 mm) of water unless recent rains have provided equivalent moisture.
  - The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and butting tightly against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Care shall be exercised to insure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause drying of the roots.

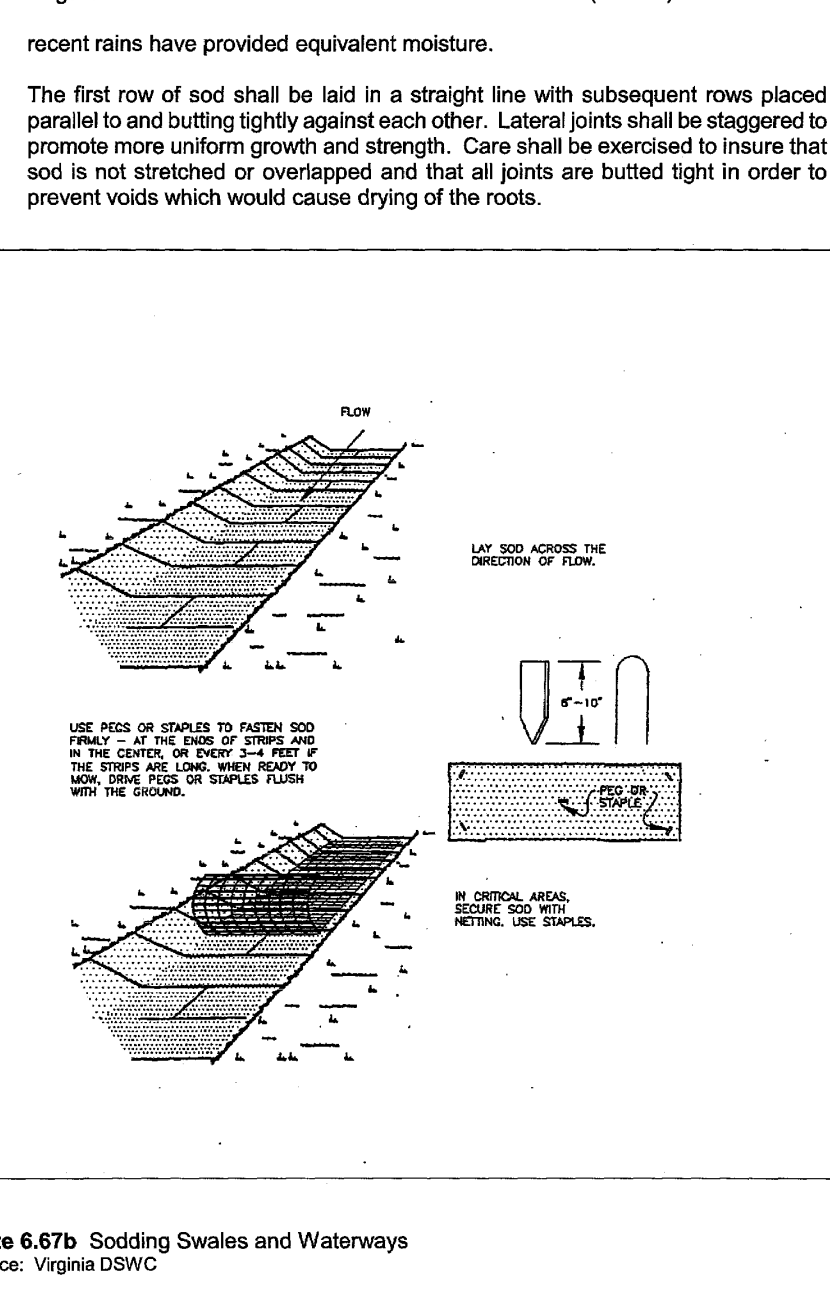


Plate 6.67b Sodding Swales and Waterways  
Source: Virginia DSWC

- On slopes 3:1 or greater, or wherever erosion may be a problem, sod shall be laid with staggered joints and secured by pegging or other approved methods. Sod shall be installed with the length perpendicular to the slope (on the contour). Begin laying sod at the bottom of the slope and work uphill. On very steep slopes, the use of ladders will facilitate the work and prevent damage to the sod.
- Surface water cannot always be diverted from flowing over the face of the slope, but a capping strip of heavy jute or erosion netting, properly secured, along the crown of the slope will provide extra protection against lifting and undercutting of sod. This same technique can be used to fortify sod in water-carrying channels and other critical areas. Use wire staples to anchor heavy jute or erosion netting in channels.
- As sodding of clearly defined areas is completed, sod shall be rolled or tamped to provide firm contact between roots and soil.
- After rolling, sod shall be irrigated to a depth sufficient that the underside of the sod pad and the soil 4 inches (10 cm) below the sod is thoroughly wet.
- During the first week, in the absence of adequate rainfall, watering shall be performed as often as necessary to maintain moist soil to a depth of at least 4 inches (10 cm).
- The first mowing shall not be attempted until the sod is firmly rooted, usually after 2 - 3 weeks. Not more than 1/3 of the grass leaf should be removed at any one cutting.

**B. Spot Sodding**

- Spot sodding is the planting of plugs or blocks, a minimum of 4 inches (10 cm) in diameter or square, of sod at measured intervals. The plugs or blocks should be placed one foot (30 cm) apart.
- Sod spots within a row should be placed alternately and not directly opposite sod spots in adjacent rows.
- Fit the plugs or blocks tightly into prepared holes and tamp them firmly into place.
- Irrigate to a depth sufficient that the underside of the sod spot and the soil 4 inches (10 cm) below the sod is thoroughly wet.

**C. Strip Sodding**

- Areas to be strip sodded should be fertilized, limed, prepared and smoothed as in solid sodding.
- Lay the strips end to end in rows that are from 1 to 1-1/2 feet (30 to 45 cm) apart with the strips a minimum of 2 to 4 inches (5 to 10 cm) wide.
- Roll or tamp the strips thoroughly to provide firm contact between roots and soil.
- Irrigate to a depth sufficient that the underside of the strips and the soil 4 inches (10 cm) below the strips are wet.

**D. Sodded Swales and Waterways (Plate 6.67b)**

- Care should be taken to prepare the soil adequately in accordance with this specification. The sod type shall consist of plant materials able to withstand the designed velocity. (See STORMWATER CONVEYANCE CHANNELS - Section 6.35 (ES BMP 1.35)).
- Sod strips in swales and waterways shall be laid perpendicular to the direction of flow. Care should be taken to butt ends of strips tightly.
- After rolling or tamping, sod shall be pegged or stapled to resist washout during the establishment period. Chicken wire, jute or other netting may be pegged over the sod for extra protection in critical areas.
- All other specifications for this practice shall be adhered to when sodding a swale or waterway.

**Maintenance of Established Sod**

- After the first week, sod shall be watered as necessary to maintain adequate moisture in the root zone and prevent dormancy.
- Apply lime and fertilizer under a regular program based on soil tests and on the use and general appearance of the vegetative cover. In the absence of a soil test apply 1 - 2 tons/acre (45 - 90 lbs./1000 ft<sup>2</sup>)(2.24 to 4.48 t/ha) of finely ground agricultural limestone every three years. Apply 400 - 500 lbs./acre (9 - 18 lbs./1000 ft<sup>2</sup>)(450 - 500 kg/ha) of 10-10-10 fertilizer. To obtain better vegetative cover, topdress with 150 - 300 lbs./acre (6 - 12 lbs./1000 ft<sup>2</sup>)(60 - 120 kg/ha) of 16-4-4 fertilizer during the growing season, but at least six weeks before the end of the growing season. If Centipede or St. Augustine grass is used, do not apply more than 1 pound of actual nitrogen per 1000 ft<sup>2</sup> (20 - 40 lbs./acre)(22 - 44 kg/ha).
- Mow to control weeds, improve the appearance of the vegetative cover, and to reduce fire hazard, as necessary. In general, the coarser the leaf texture of the grass, the higher it should be cut. Continuous close mowing will result in loss of vigor and reduced stand. No more than 1/3 of the grass leaf should be removed in any mowing.

Plate 6.67c Sodding Swales and Waterways  
Source: Virginia DSWC

**Spot Sodding**

- Spot sodding is the planting of plugs or blocks, a minimum of 4 inches (10 cm) in diameter or square, of sod at measured intervals. The plugs or blocks should be placed one foot (30 cm) apart.
- Sod spots within a row should be placed alternately and not directly opposite sod spots in adjacent rows.
- Fit the plugs or blocks tightly into prepared holes and tamp them firmly into place.
- Irrigate to a depth sufficient that the underside of the sod spot and the soil 4 inches (10 cm) below the sod is thoroughly wet.

**Strip Sodding**

- Areas to be strip sodded should be fertilized, limed, prepared and smoothed as in solid sodding.
- Lay the strips end to end in rows that are from 1 to 1-1/2 feet (30 to 45 cm) apart with the strips a minimum of 2 to 4 inches (5 to 10 cm) wide.
- Roll or tamp the strips thoroughly to provide firm contact between roots and soil.
- Irrigate to a depth sufficient that the underside of the strips and the soil 4 inches (10 cm) below the strips are wet.

**Sodded Swales and Waterways (Plate 6.67b)**

- Care should be taken to prepare the soil adequately in accordance with this specification. The sod type shall consist of plant materials able to withstand the designed velocity. (See STORMWATER CONVEYANCE CHANNELS - Section 6.35 (ES BMP 1.35)).
- Sod strips in swales and waterways shall be laid perpendicular to the direction of flow. Care should be taken to butt ends of strips tightly.
- After rolling or tamping, sod shall be pegged or stapled to resist washout during the establishment period. Chicken wire, jute or other netting may be pegged over the sod for extra protection in critical areas.
- All other specifications for this practice shall be adhered to when sodding a swale or waterway.

**Maintenance of Established Sod**

- After the first week, sod shall be watered as necessary to maintain adequate moisture in the root zone and prevent dormancy.
- Apply lime and fertilizer under a regular program based on soil tests and on the use and general appearance of the vegetative cover. In the absence of a soil test apply 1 - 2 tons/acre (45 - 90 lbs./1000 ft<sup>2</sup>)(2.24 to 4.48 t/ha) of finely ground agricultural limestone every three years. Apply 400 - 500 lbs./acre (9 - 18 lbs./1000 ft<sup>2</sup>)(450 - 500 kg/ha) of 10-10-10 fertilizer. To obtain better vegetative cover, topdress with 150 - 300 lbs./acre (6 - 12 lbs./1000 ft<sup>2</sup>)(60 - 120 kg/ha) of 16-4-4 fertilizer during the growing season, but at least six weeks before the end of the growing season. If Centipede or St. Augustine grass is used, do not apply more than 1 pound of actual nitrogen per 1000 ft<sup>2</sup> (20 - 40 lbs./acre)(22 - 44 kg/ha).
- Mow to control weeds, improve the appearance of the vegetative cover, and to reduce fire hazard, as necessary. In general, the coarser the leaf texture of the grass, the higher it should be cut. Continuous close mowing will result in loss of vigor and reduced stand. No more than 1/3 of the grass leaf should be removed in any mowing.



Plate 6.67b Sodding Swales and Waterways  
Source: Virginia DSWC

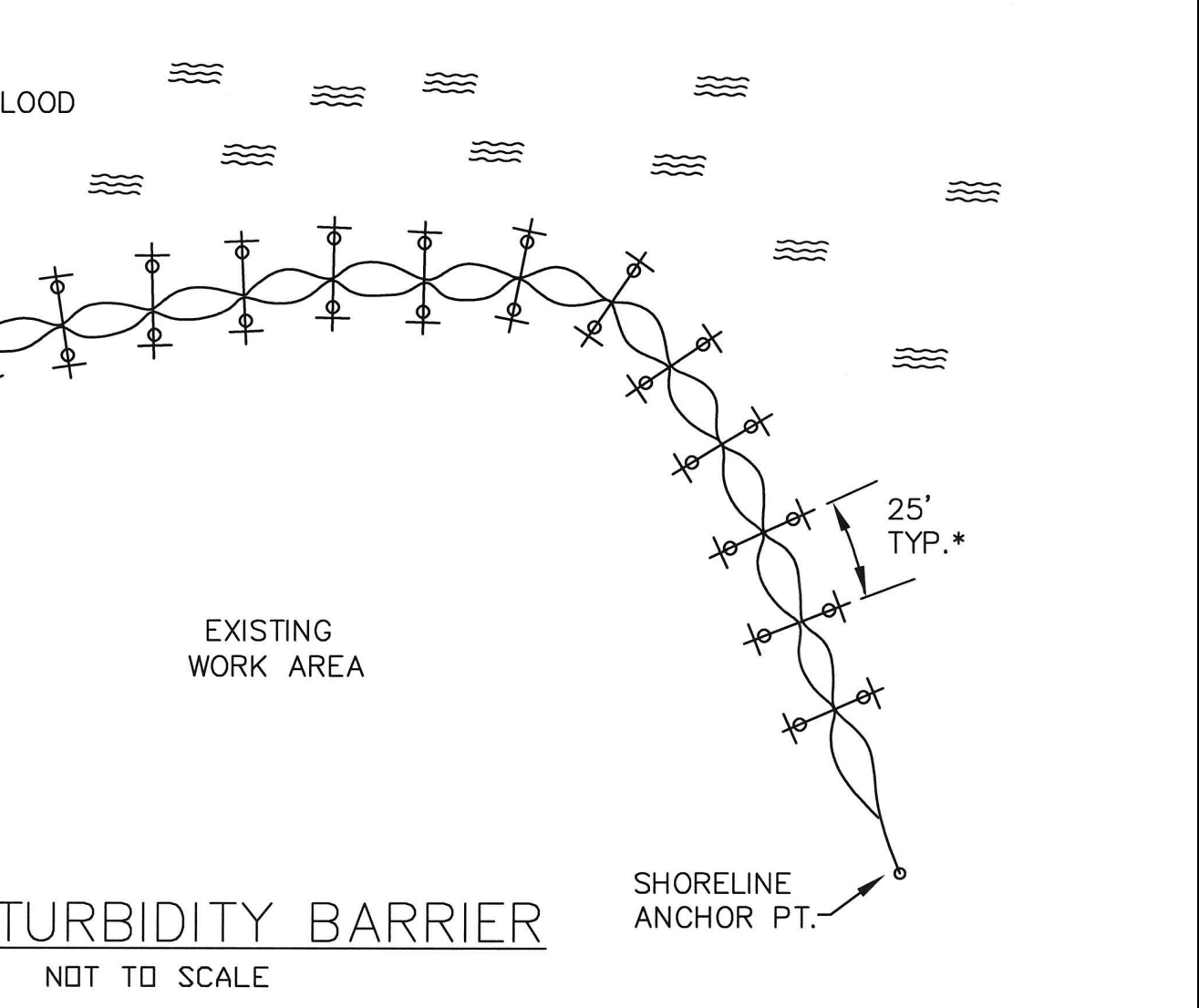


Plate 6.67c Floating Turbidity Barrier  
Source: Virginia DSWC

**INGENIUM ENTERPRISES**  
PLANNING & ENGINEERING  
14491 N. DALE HENRY HWY  
SUITE 250  
TAMPA, FL 33618  
813.367.0084  
INGENIUM@INGENIUMCORP.COM

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**4.08 STORM DRAIN INLET PROTECTION**  
(ES BMP 1.08)

**Definition**

A sediment filter or an excavated impounding area around a storm drain drop inlet or curb inlet.

**Purpose**

To prevent sediment from entering storm water conveyance systems prior to permanent stabilization of the disturbed area.

**Condition Where Practice Applies**

Where storm drain inlets are to be made operational before permanent stabilization of the disturbed drainage area. Different types of structures are applicable to different conditions (see Plates 4.08a through 4.08h).

**Planning Considerations**

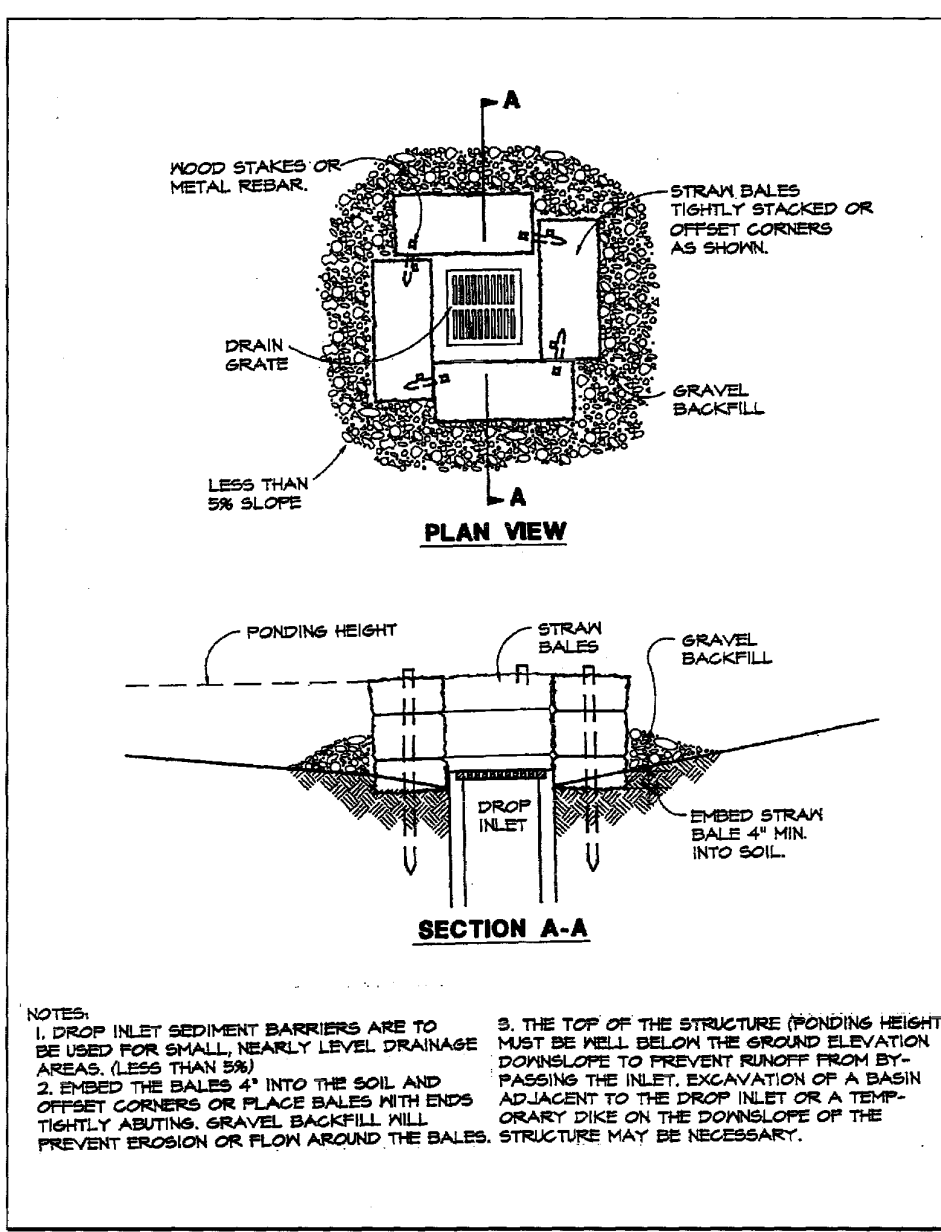
Storm sewers which are made operational before their drainage area is stabilized can convey large amounts of sediment to receiving waters. In case of extreme sediment loading, the storm sewer itself may clog and lose most of its capacity. To avoid these problems, it is necessary to prevent sediment from entering the system at the inlets.

This section contains several types of inlet filters and traps which have different applications dependent upon site conditions and type of inlet. Other innovative techniques for accomplishing the same purpose are encouraged, but only after specific plans and details are submitted to and approved by the stormwater permitting agency.

Note that these various inlet protection devices are for drainage areas of less than one acre (0.4 ha). Runoff from large disturbed areas should be routed through a TEMPORARY SEDIMENT TRAP - Section 4.25 (ES BMP 1.25).

**Design Criteria**

- The drainage area shall be no greater than 1 acre (0.4 ha).
- The inlet protection device shall be constructed to facilitate clean out and disposal of trapped sediment and to minimize interference with construction activities.
- The inlet protection devices shall be constructed so that any resultant ponding or stormwater will not cause excessive inconvenience or damage to adjacent areas or structures.
- Design criteria more specific to each particular inlet protection devices will be found on Plates 4.08a-h.



**Plate 4.08c** Straw Bale and Gravel Drop Inlet Sediment Barrier

Source: Erosion Draw

**Construction Specifications**

**Straw bale drop inlet filter**

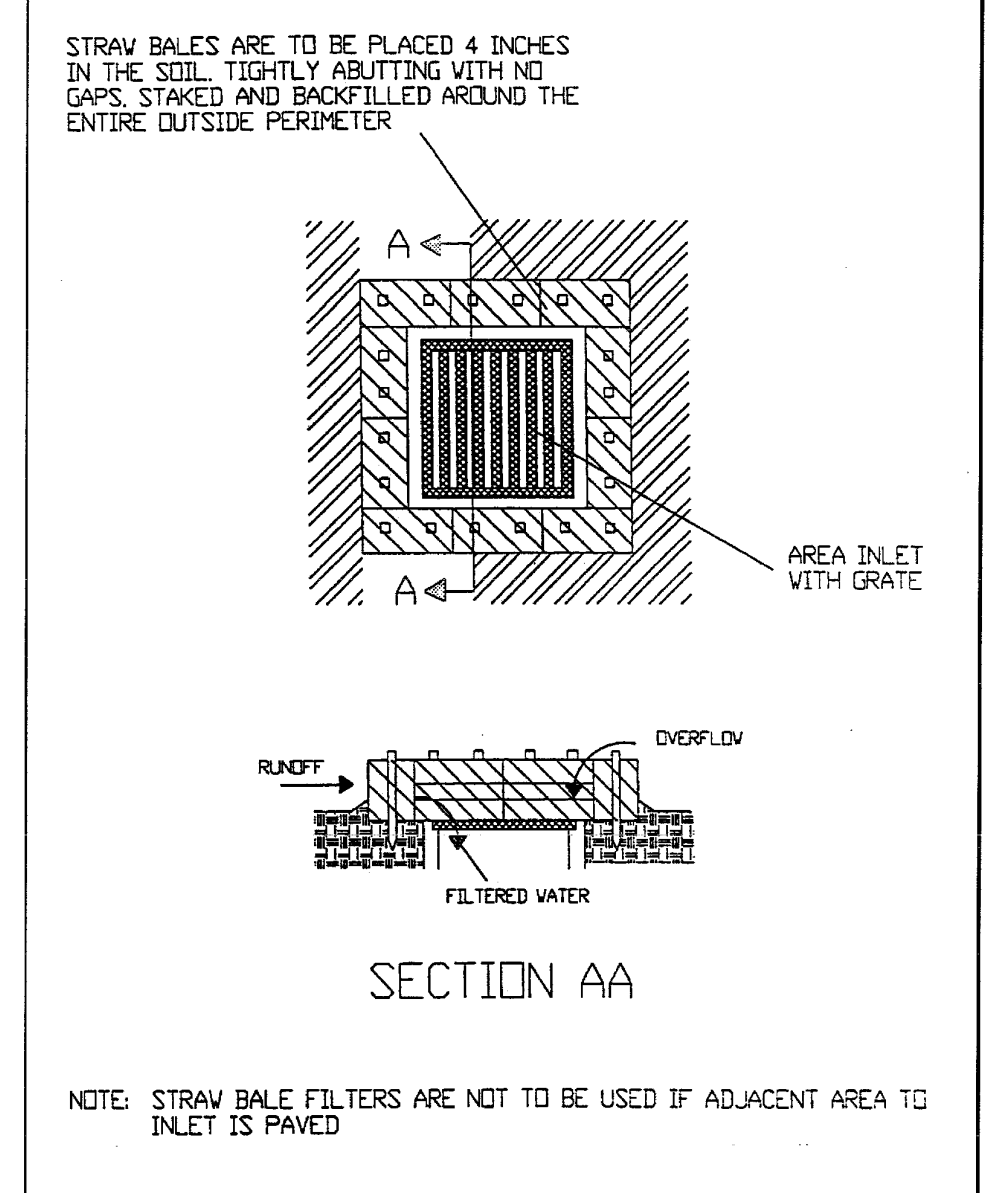
- Bales shall be either wire-bound or string-tied with the bindings oriented around the sides rather than over and under the bales.
- Bales shall be placed lengthwise in a single row surrounding the inlet, with the ends of adjacent bales pressed together. (See Plate 4.08a)
- The filter barrier shall be entrenched and backfilled. A trench shall be excavated around the inlet the width of a bale to a minimum depth of 4 inches (10 cm). After the bales are staked, the excavated soil shall be backfilled and compacted against the filter barrier. (See Plate 4.08b)
- Each bale shall be securely anchored and held in place by at least two stakes or rebar. (See p. 4-17) driven through the bale.
- Loose straw should be wedged between bales to prevent water from entering between bales.
- Gravel may be spread around the bales to improve stability. (See Plate 4.08c)

**Fabric drop inlet sediment filter**

- Fabric shall be cut from a continuous roll to avoid joints.
- Stakes shall be 2" x 4" (5 cm x 10 cm) wood (preferred) or equivalent metal with a minimum length of 3 feet (90 cm). (See Plate 4.08d)
- Staples shall be of heavy duty wire at least 1/2-inch (13 mm) long.
- Stakes shall be spaced around the perimeter of the inlet a maximum of 3 feet (90 cm) apart and securely driven into the ground minimum of 8 inches (20 cm). A frame of 2" x 4" (5 cm x 10 cm) wood shall be constructed around the top of the stakes for proper stability.
- A trench shall be excavated approximately 4 inches (10 cm) wide and 4 inches (10 cm) deep around the outside perimeter of the stakes. (See Plate 4.08e)
- The burlap shall be stapled to the wooden stakes, and 8 inches (20 cm) of the fabric shall be extended into the trench. The height of the filter barrier shall be a minimum of 15 inches (38 cm) and shall not exceed 18 inches (45 cm).
- The trench shall be backfilled and the soil compacted over the burlap.

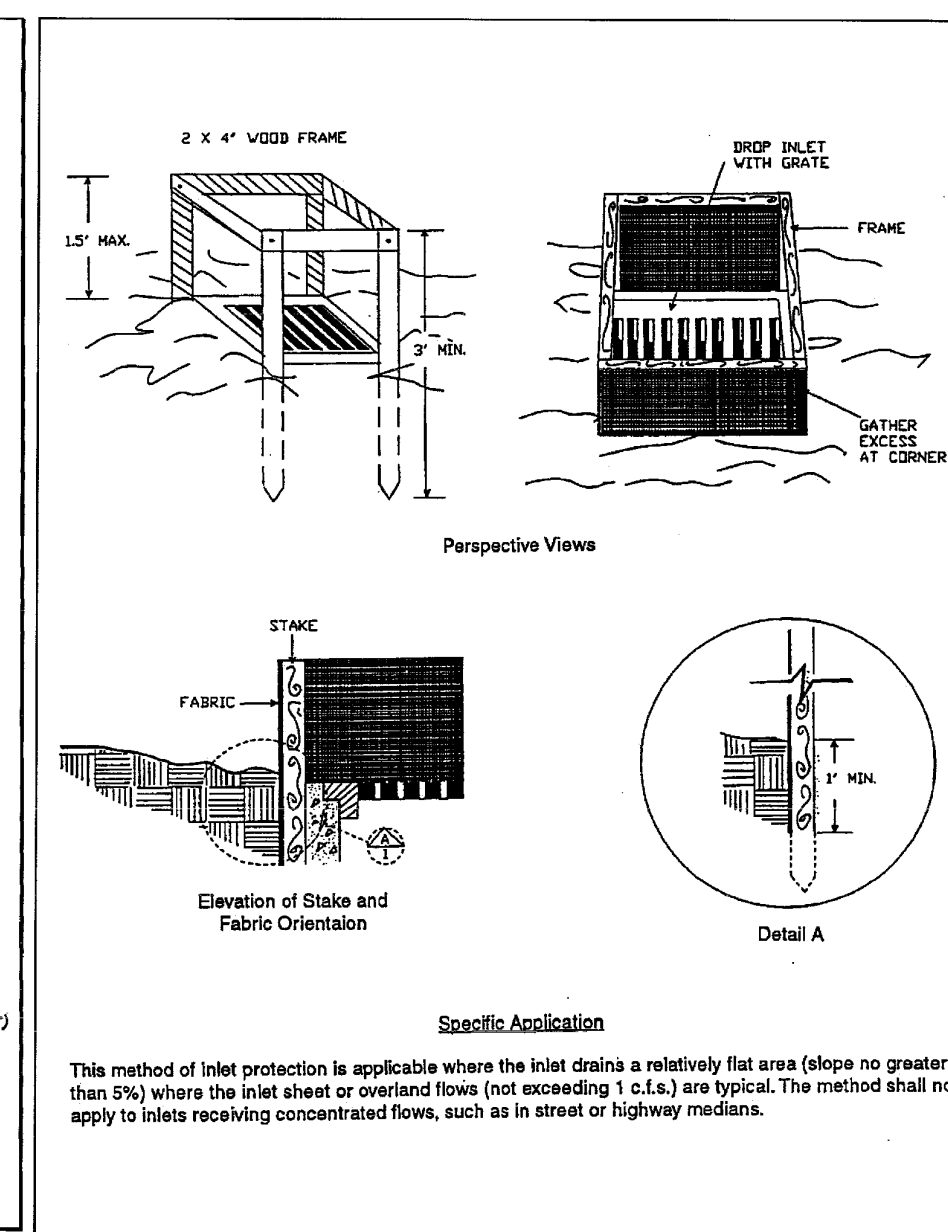
**Plate 4.08a** Straw Bale Drop Inlet Sediment Filter

Source: Michigan Soil Erosion and Sedimentation Control Guidebook



**Plate 4.08b** Straw Bale Filter for Area Inlet

Source: HydroDynamics, Inc.

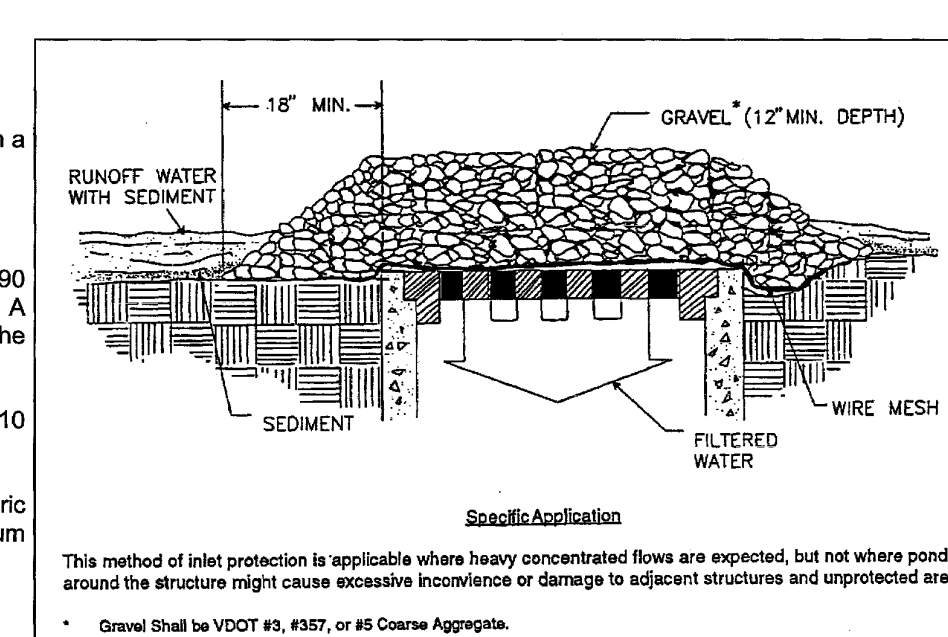


**Plate 4.08e** Filter Fabric Drop Inlet Sediment Filter

Source: North Carolina Erosion and Sediment Control Manual

**Gravel and wire mesh drop inlet sediment filter**

- Wire mesh shall be laid over the drop inlet so that the wire extends a minimum of one foot (30 cm) beyond each side of the inlet structure. Hardware cloth or comparable wire mesh with 1/2 inch (13 mm) openings shall be used. If more than one strip of mesh is necessary, the strips shall be overlapped at least 1 ft. (30 cm).
- FDOT No. 1 Coarse Aggregate (1.5" to 3.5" stone)(4 - 9 cm) shall be placed over the wire mesh as shown on Plate 4.08c. The depth of stone shall be at least 12 inches (30 cm) over the entire inlet opening. The stone shall extend beyond the inlet opening at least 18 inches (45 cm) on all sides. (See Plate 4.08f)
- If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stones must be pulled away from the inlet, cleaned and replaced.



**Plate 4.08f** Gravel and Wire Mesh Drop Inlet Sediment Filter

Source: Virginia DSWC

**Block and gravel drop inlet sediment filter**

- Place concrete blocks lengthwise on their sides in a single row around the perimeter of the inlet, with the ends of adjacent blocks abutting. The height of the barrier can be varied, depending on design needs, by stacking combinations of 4 inch, 8 inch and 12 inch (10, 20, and 30 cm) wide blocks. The barrier of blocks shall be at least 12 inches (30 cm) high and no greater than 24 inches (60 cm) high.
- Wire mesh shall be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Hardware cloth or comparable wire mesh with 1/2 inch (13 mm) openings shall be used. (See Plate 4.08g)
- Stone shall be piled against the wire to the top of the block barrier. Suitable coarse aggregate shall be used. (See Plate 4.08h)
- If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the blocks, cleaned and replaced.
- As a very temporary alternative, pervious burlap bags filled with gravel may be placed around the inlet provided that there are no gaps between the bags. (See Plate 4.08i)
- Either of these two practices may be installed on pavement or bare ground

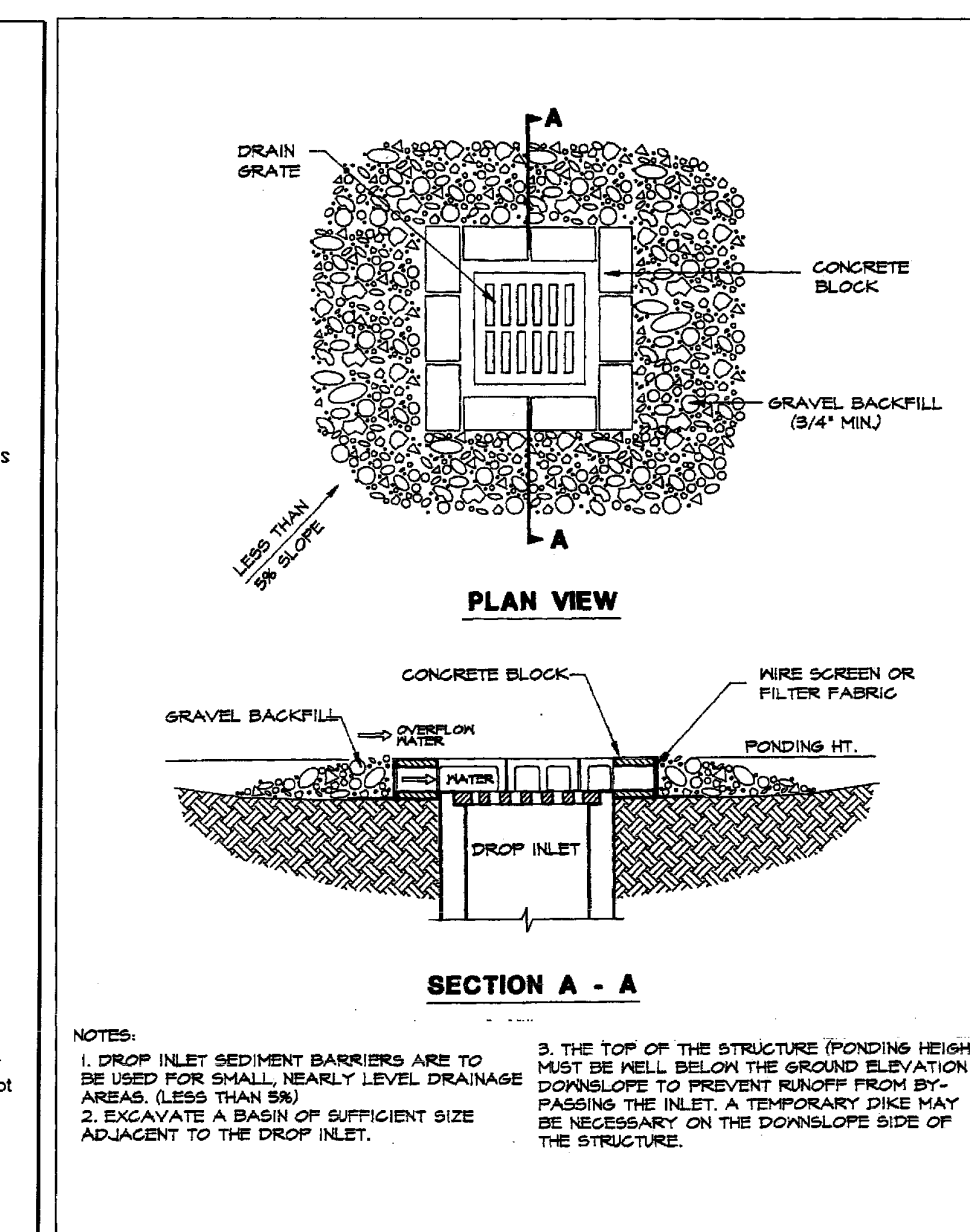
**Sod drop inlet sediment filter**

- Soil shall be prepared and sod installed according to the specifications in SODDING - Section 6.67 (ES BMP 1.67).
- Sod shall be placed to form a turf mat covering the soil for a distance of 4 feet (1.2 m) from each side of the inlet structure. (See Plate 4.08j)

**Prefabricated drop inlet internal filter bag (ACF Silt Sack)**

- Remove the grate over the catch basin and insert the filter device, then replace grate to hold the device in position.
- When sediments have accumulated to within one foot (30 cm) of the grate the filter insert must be removed by a front-end loader or forklift. The filter may be discarded and replaced or it may be emptied, cleaned, and reused.

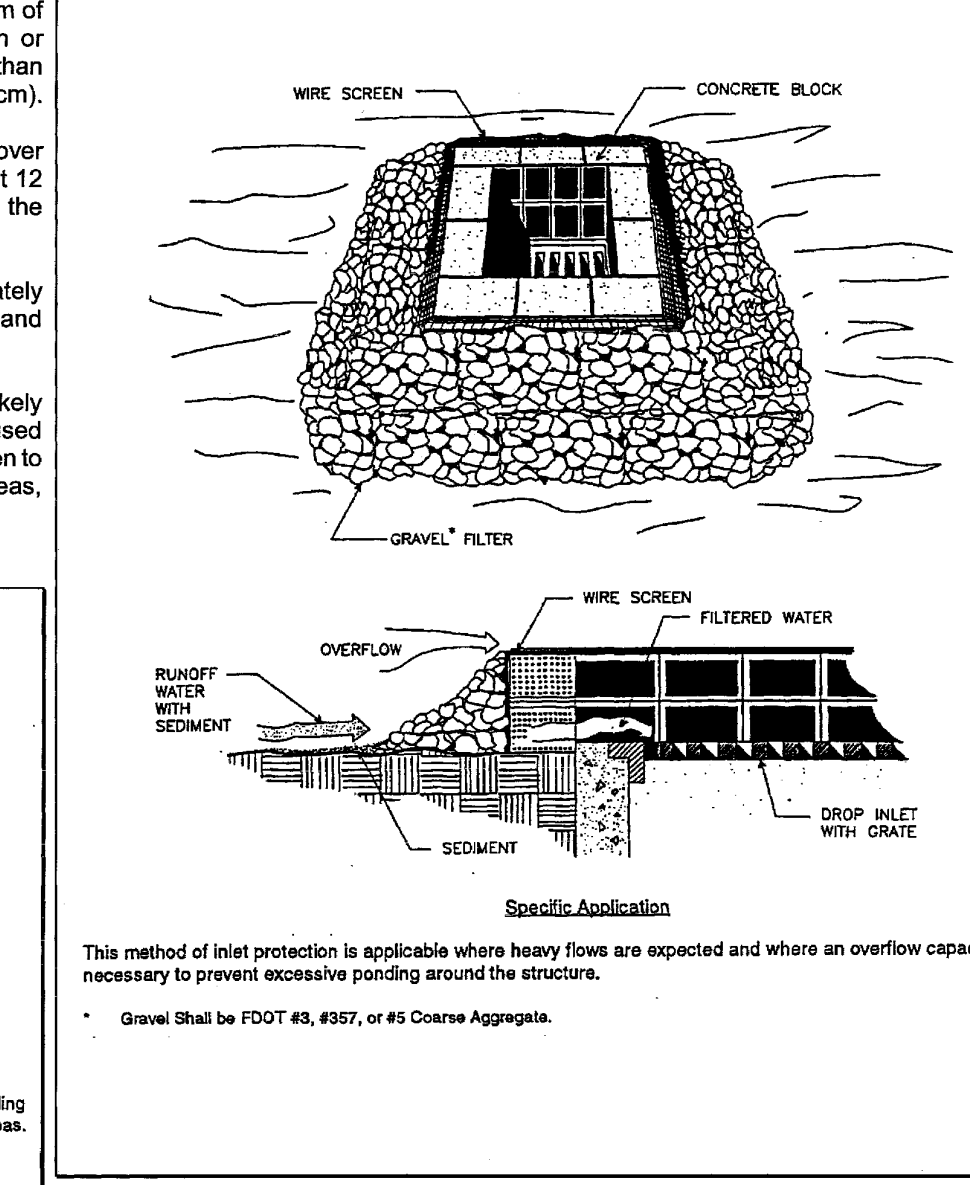
NOTE: This segment does not constitute a product endorsement.



**Plate 4.08g** Block and Gravel Drop Inlet Sediment Filter

Source: Erosion Draw

**Wire mesh and gravel drop inlet sediment filter**



**Plate 4.08h** Block and Gravel Drop Inlet Sediment Filter

Source: Michigan Soil Erosion and Sedimentation Control Guidebook

**Prefabricated drop inlet external filter (Suntree Isles Grate Inlet Protector)**

- Place the device over the inlet. If the inlet has a grate, the device shall be secured to the grate by means of a long toggle bolt. If the grate is not present, the device shall be bolted directly to the concrete.
- Sediments shall be removed when they have accumulated to within one foot (30 cm) of the top of the device. The filter fabric elements shall be cleaned or replaced at that time.

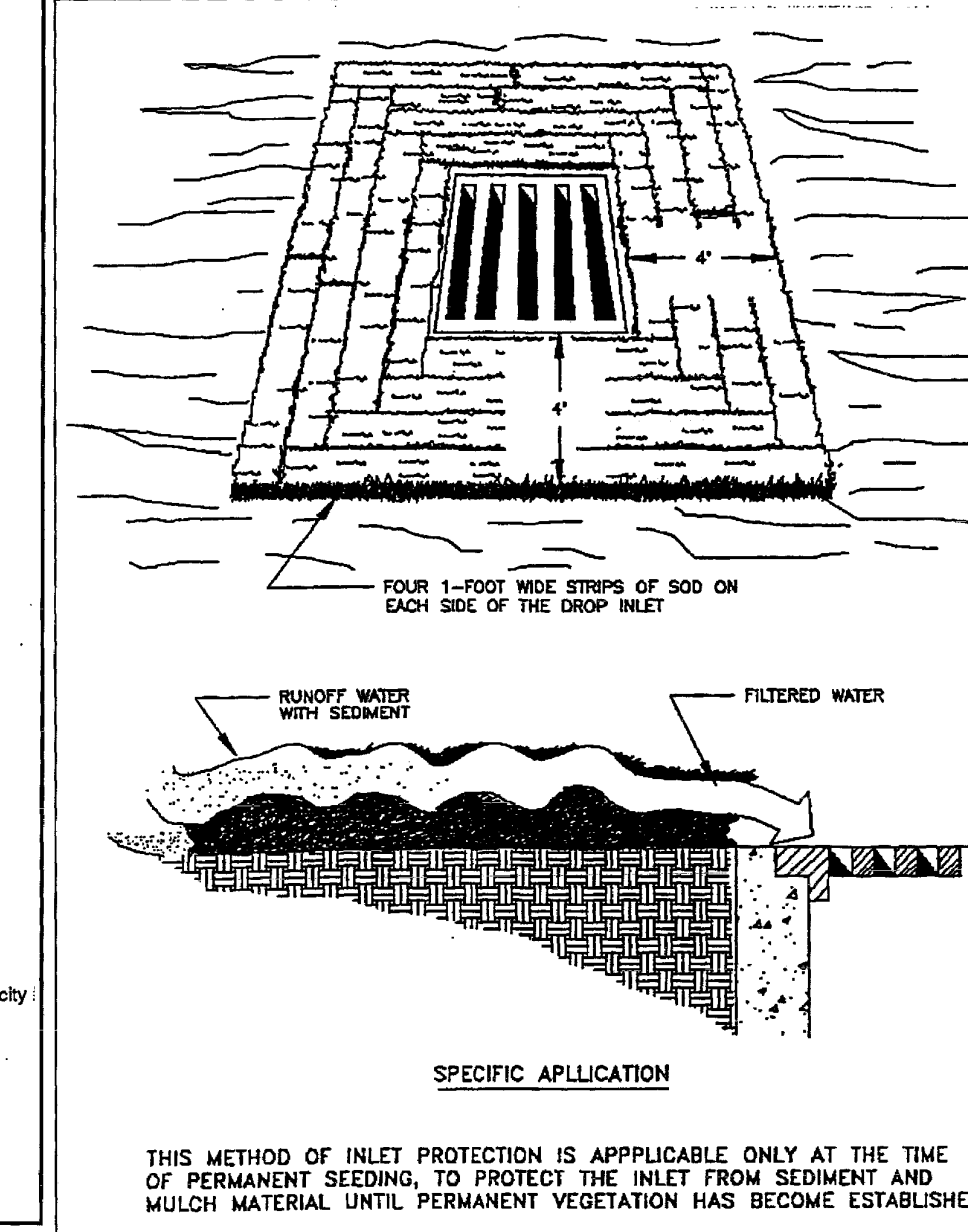
NOTE: This segment does not constitute a product endorsement.

**Gravel curb inlet sediment filter**

- Hardware cloth or comparable wire mesh with 1/2 inch (13 mm) openings shall be placed over the curb inlet opening so that at least 12 inches (30 cm) of wire extends across the top of the inlet cover and at least 12 inches (30 cm) of wire extends across the concrete gutter from the inlet opening. (See Plate 4.08k)
- Stone shall be piled against the wire so as to anchor it against the gutter and inlet cover and to cover the inlet opening completely. FDOT No. 1 Coarse Aggregate shall be used.
- An overflow weir can be constructed of 2" x 4" (5 x 10 cm) boards to lessen ponding from this practice. (See Plate 4.08l)
- If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stones must be pulled away from the block, cleaned and replaced.

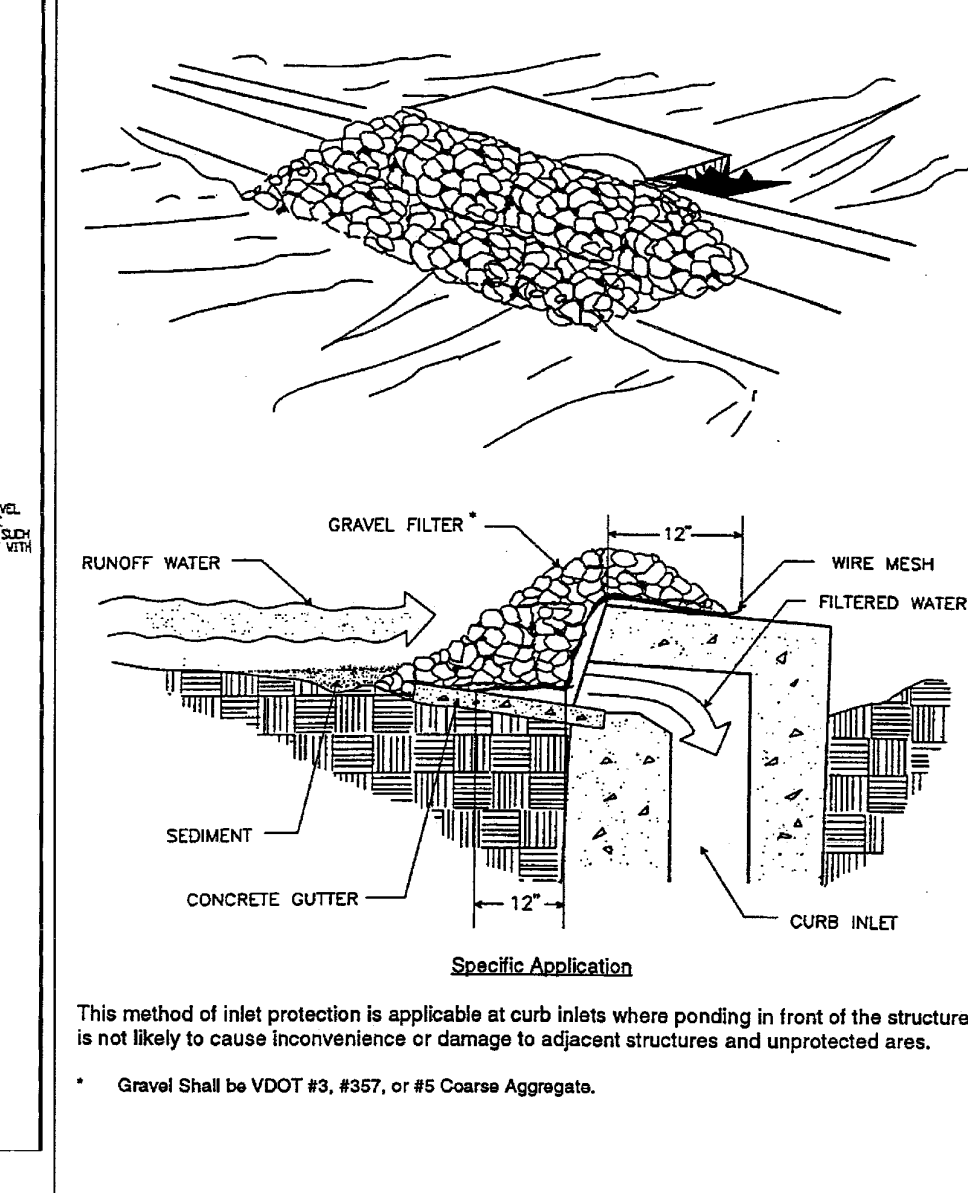
**Block and gravel curb inlet sediment filter**

- Two concrete blocks shall be placed on their sides abutting the curb at either side of the inlet opening.
- A 2" x 4" (5 x 10 cm) board shall be cut and placed through the outer holes of each spacer block to help keep the front blocks in place.
- Concrete blocks shall be placed on their sides across the front of the inlet and abutting the spacer blocks. (See Plate 4.08m)
- Wire mesh shall be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Hardware cloth with 1/2 inch (13 mm) openings shall be used.
- FOOT No. 1 Coarse Aggregate shall be piled against the wire to the top of the barrier.



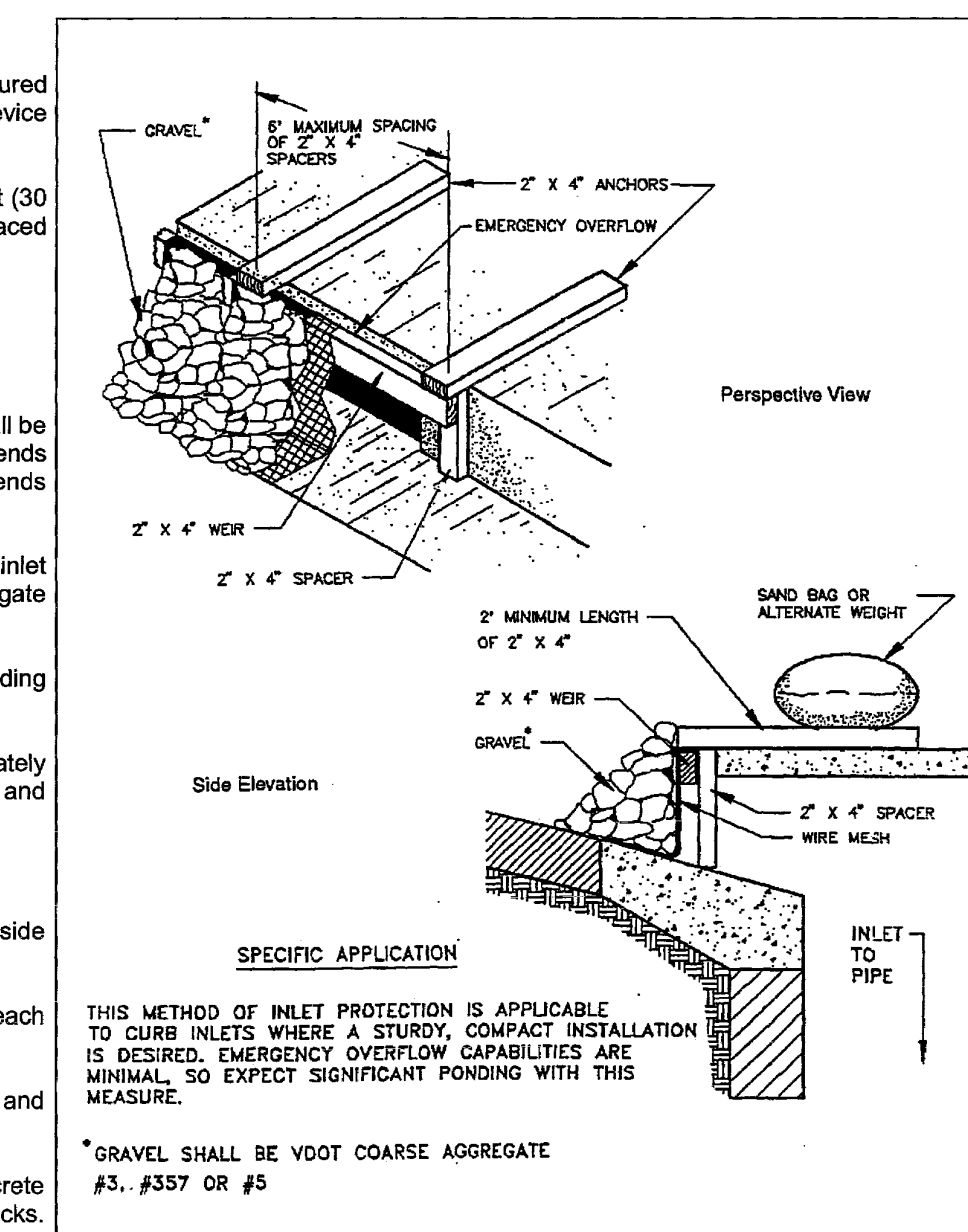
**Plate 4.08j** Sod Drop Inlet Sediment Filter

Source: Virginia DSWC



**Plate 4.08k** Gravel Curb Inlet Sediment Filter

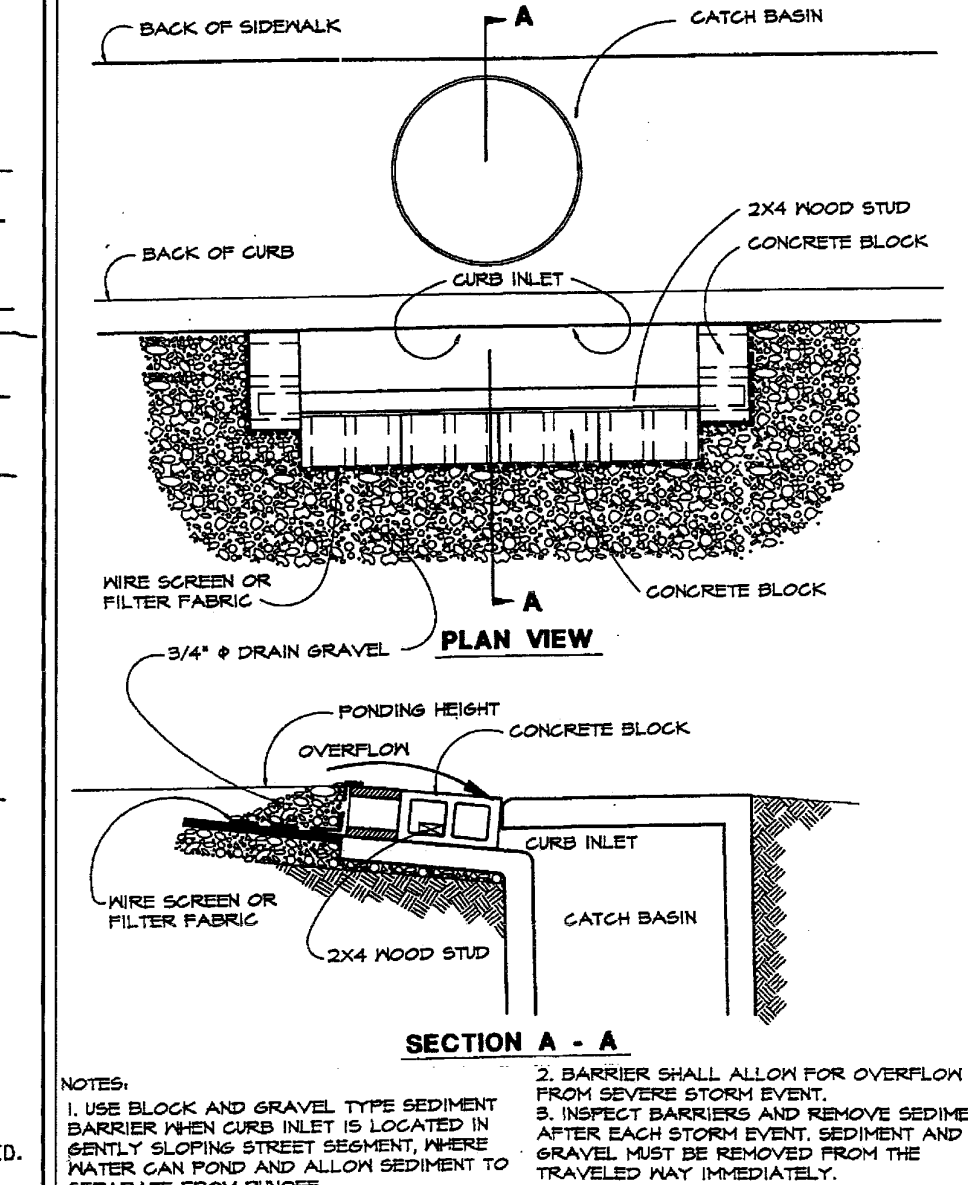
Source: Virginia DSWC



**Plate 4.08m** Block and Gravel Curb Inlet Sediment Barrier

Source: Erosion Draw

**Gravel curb inlet sediment filter with overflow weir**



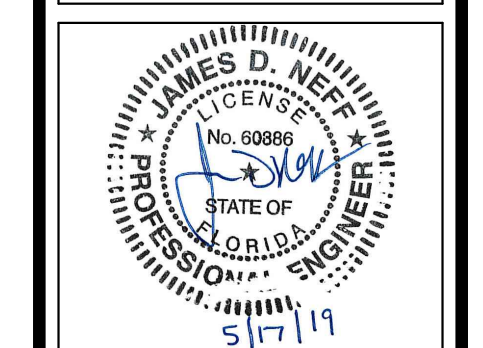
**Plate 4.08n** Curb Inlet Gravel Filters

Source: HydroDynamics, Inc.



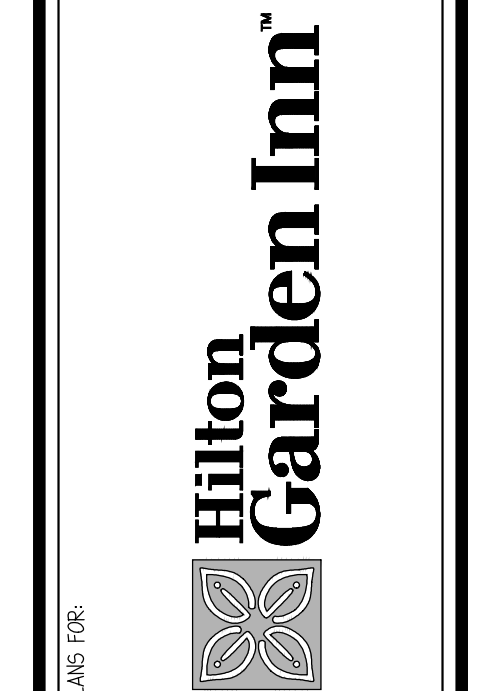
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14491 N DALE HENRY HWY  
SUITE 250  
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PROJ. # 170071  
DWG. NAME 170071.C04.DWG  
ISSUE DATE 05/17/2004  
PROJ. TSGR 31

ESPC DETAILS III

C06.4  
SHEET NUMBER

ISSUE FOR PERMIT/PRICING

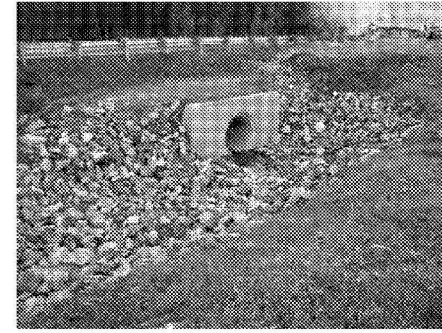




### 6.14 Outlet Protection

#### Definition

Structurally lined aprons or other acceptable energy-dissipating devices placed at the outlets of pipes (see Figures 6.14a, 6.14b, and 6.14c) or paved channel sections (see Figure 6.14d). The most common types are riprap aprons or concrete aprons with energy dissipator blocks or walls.



#### Purposes

To prevent scour at stormwater outlets and to minimize the potential for downstream erosion by reducing the velocity of concentrated stormwater flows.

#### Conditions Where Practice Applies

Applicable to the outlets of all pipes and paved channel sections where the velocity of flow at design capacity of the outlet exceeds the permissible velocity of the receiving channel or area.

#### Construction Specifications

Subgrade preparation for all types of outlet protection shall follow the guidelines in EARTHWORK SPECIFICATIONS (in this chapter). Riprap outlet protection aprons shall be installed in accordance with RIPRAP (in this chapter). Underlying geotextiles shall be anchor trenched in at least 6 to 9 inches (15 to 25 cm) and backfilled.

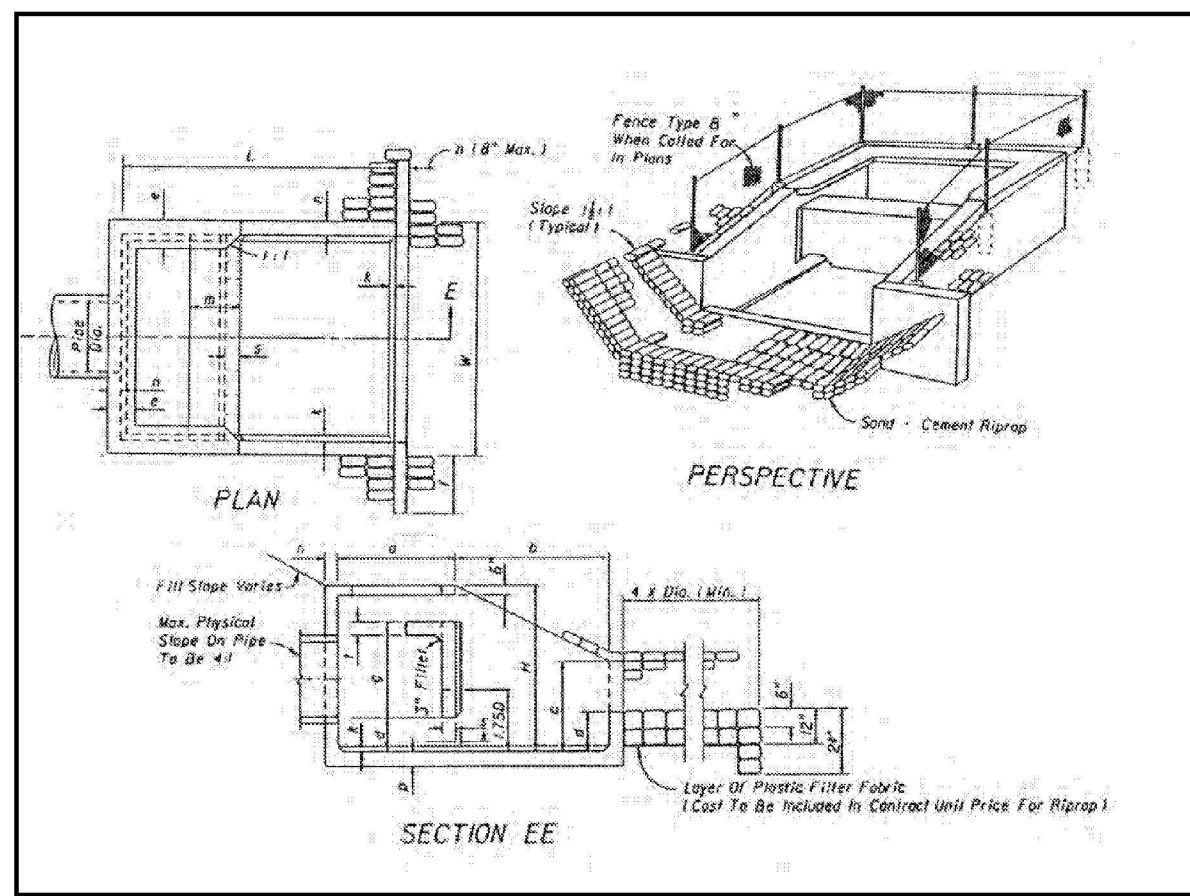


Figure 6.14a. Energy Dissipator  
Source: FDOT

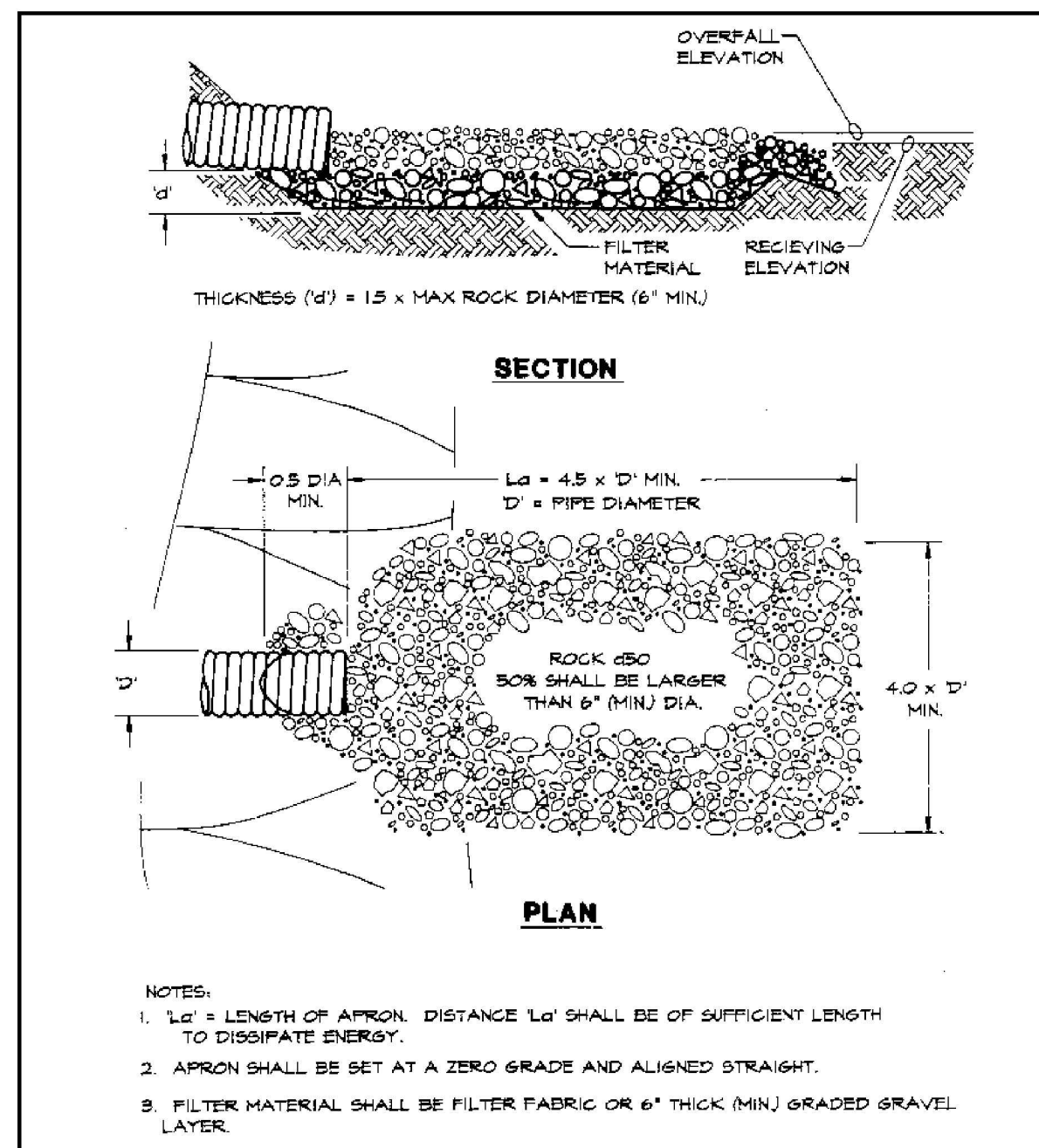


Figure 6.14b. Energy Dissipator  
Source: Erosion Draw

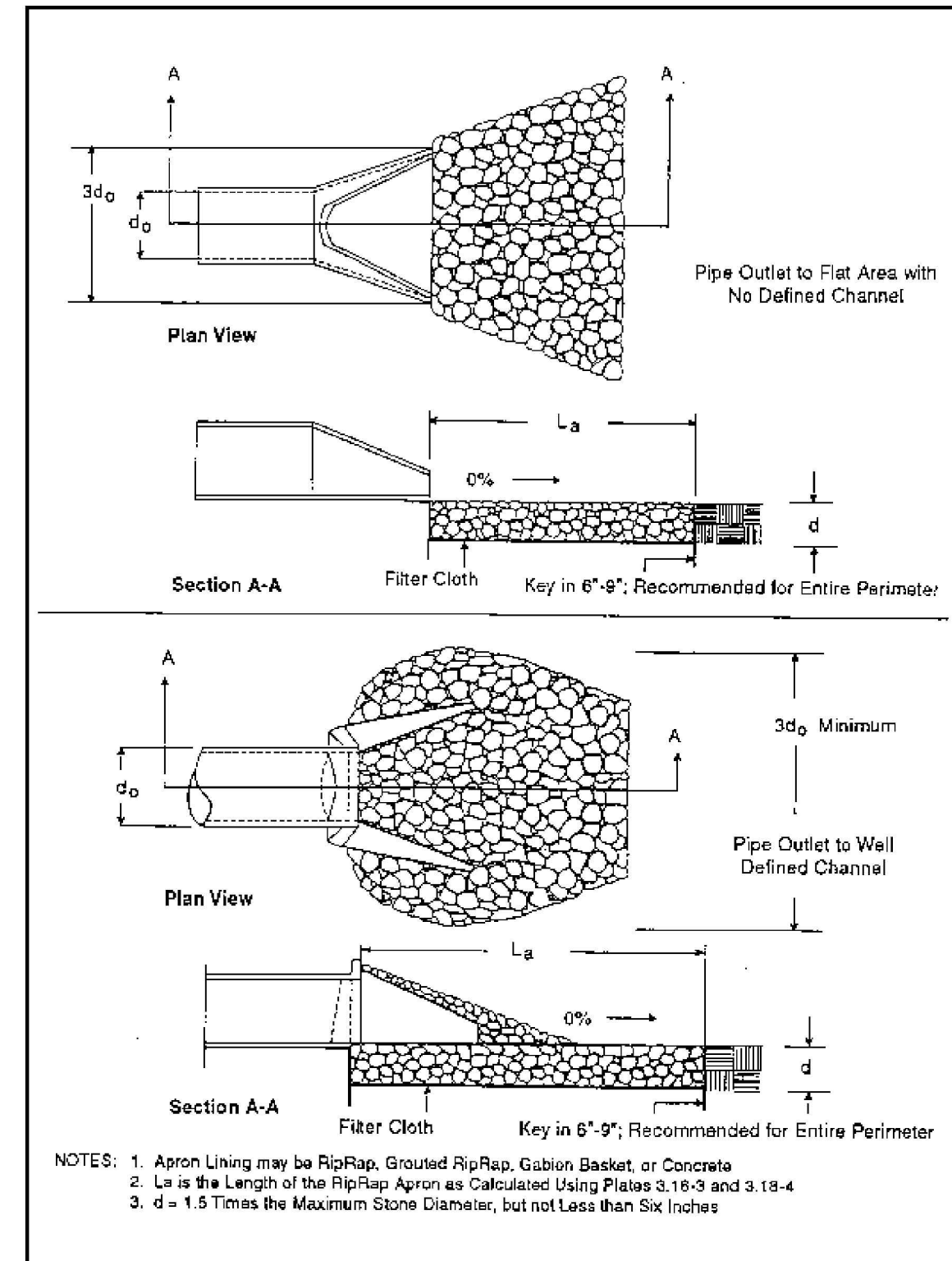


Figure 6.14c. Pipe Outlet Conditions  
Source: Virginia DSWC

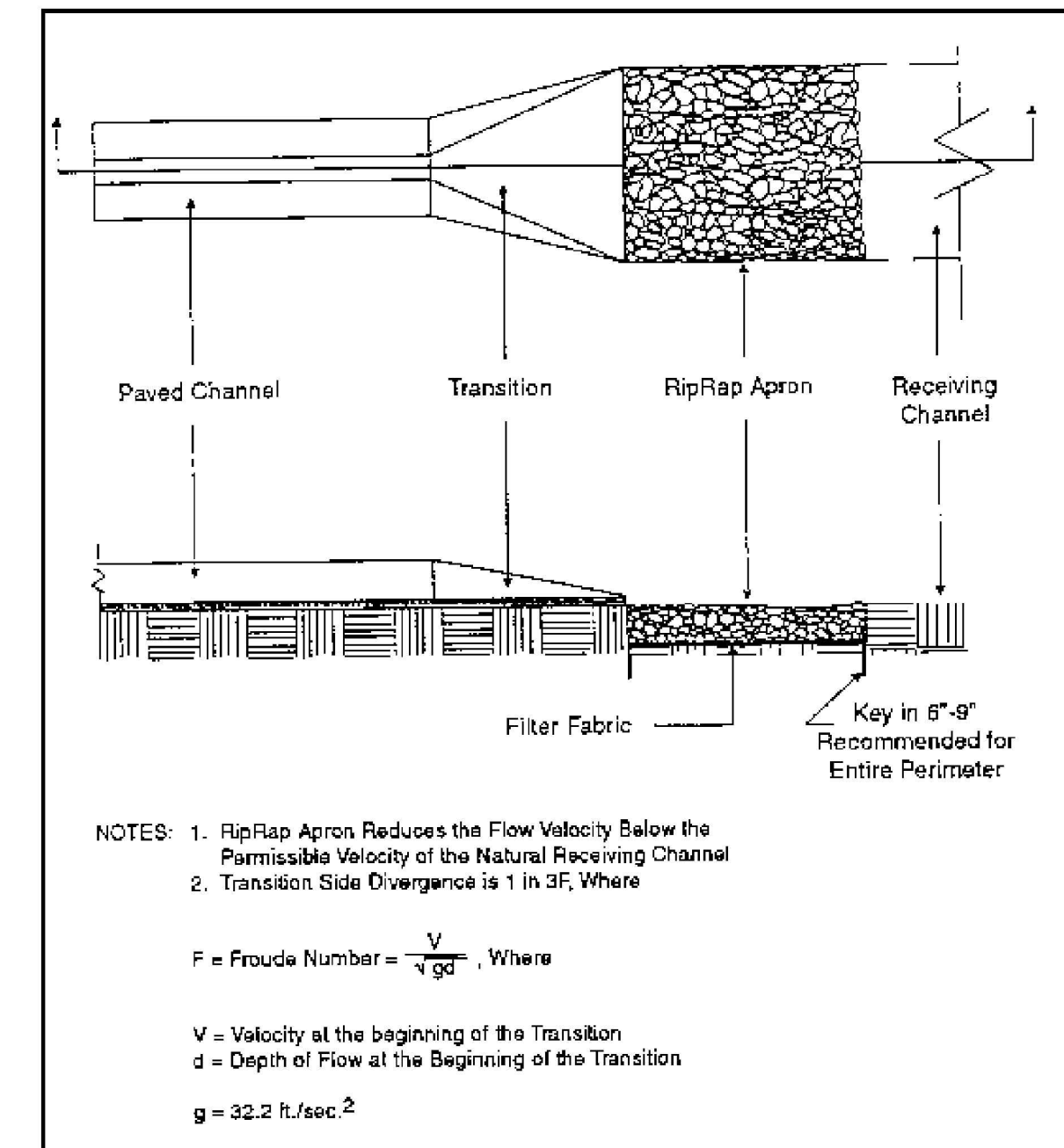


Figure 6.14d. Paved Channel Outlet  
Source: Virginia DSWC

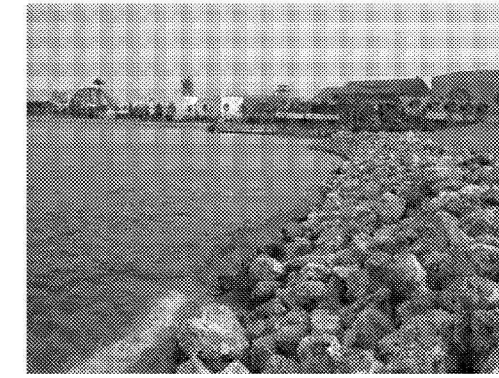
### 6.15 Riprap

#### Definition

A permanent, erosion-resistant ground cover of large, loose, angular stone.

#### Purposes

- To protect the soil surface from the erosive forces of concentrated runoff.
- To slow the velocity of concentrated runoff while enhancing the potential for infiltration (see Figure 6.15a).
- To stabilize slopes with seepage problems and/or noncohesive soils (see Figure 6.15b).



#### Conditions Where Practice Applies

The practice is used for soil-water interfaces where soil conditions, water turbulence and velocity, expected vegetative cover, etc., are such that the soil may erode under the design flow conditions. Riprap may be used, as appropriate, at storm drain outlets; on channel banks and/or bottoms, roadside ditches, and drop structures; at the toes of slopes, etc. (see Figure 6.15c).

#### Construction Specifications

##### Subgrade Preparation

The subgrade for the riprap or filter blanket shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density approximating that of the surrounding undisturbed material. Brush, trees, stumps, and other objectionable material shall be removed.

##### Filter Blanket

The placement of the filter blanket should be done immediately after slope preparation. For granular filters, the stone should be spread in a uniform layer to the specified depth. Where more than one layer of filter material is used, the layers should be spread so that there is minimal mixing of the layers.

For plastic filter cloths, the cloth should be placed directly on the prepared slope. The edges of the sheets should overlap by at least 12 inches (30 cm). Anchor pins 15 inches (38 cm) long should be spaced every 3 feet (90 cm) along the overlap. The upper and lower ends of the cloth should be buried a minimum of 12 inches (30 cm) deep. Care should be taken not to damage the cloth when placing the riprap. If damage occurs, that sheet should be removed and replaced. For large stone 12 inches (30 cm) or greater, a 4 inch (10 cm) layer of gravel may be necessary to prevent damage to the cloth.

##### Stone Placement

The placement of riprap should immediately follow the placement of the filter. The riprap should be placed so that it produces a dense, well-graded mass of stone with a minimum of voids. The desired distribution of stones throughout the mass may be obtained by selective loading at the quarry, the controlled dumping of successive loads during final placing, or a combination of these methods. The riprap should be placed to its full thickness in one operation, not placed in layers. Stones should not be placed by dumping into chutes or similar methods that are likely to cause segregation of the various stone sizes. Care should be taken not to dislodge the underlying material when placing the stones.

The finished slope should be free of pockets of small stone or clusters of large stones. Hand placing may be necessary to achieve the required grades and a good distribution of stone sizes. The final thickness of the riprap blanket should be within plus or minus one-fourth of the specified thickness.

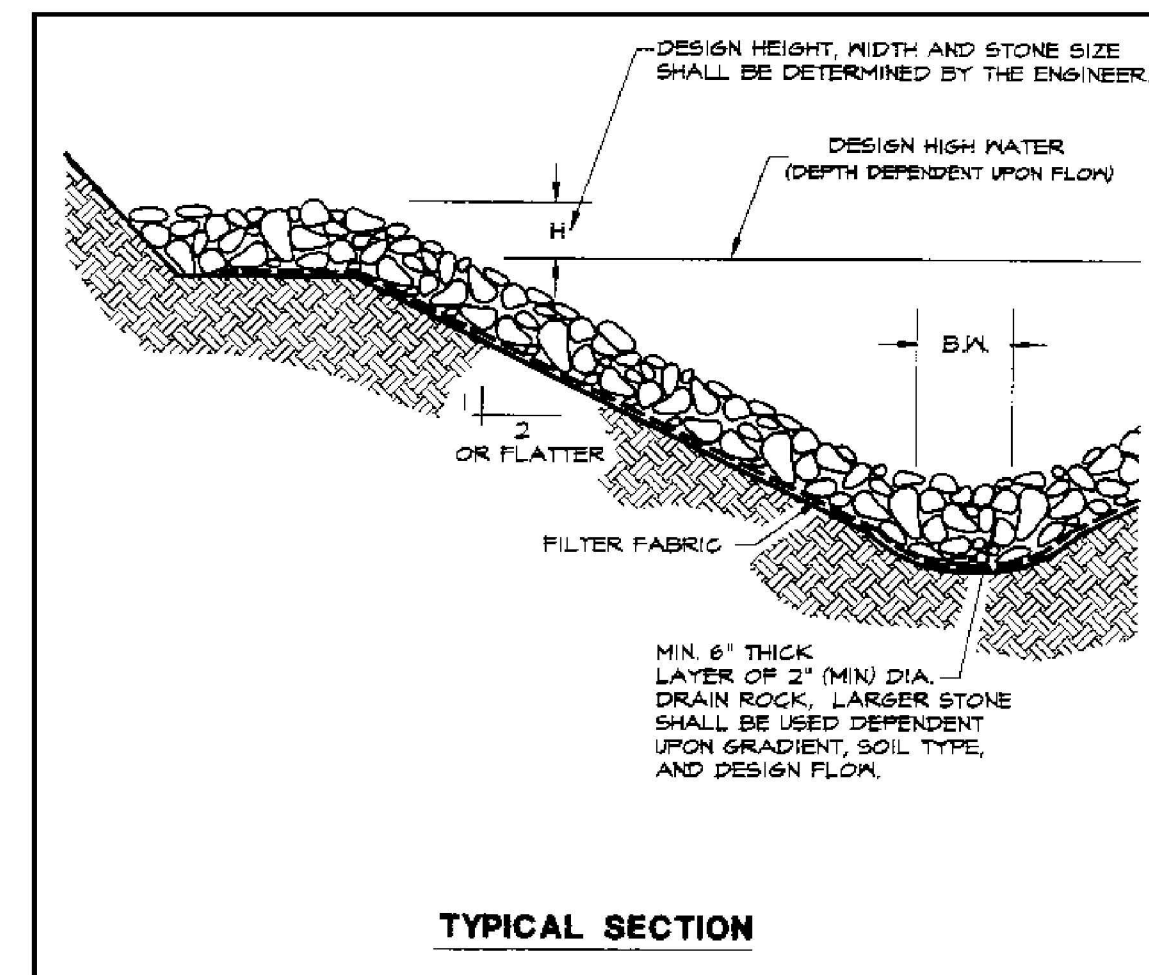


Figure 6.15a. Rock-Lined Channel

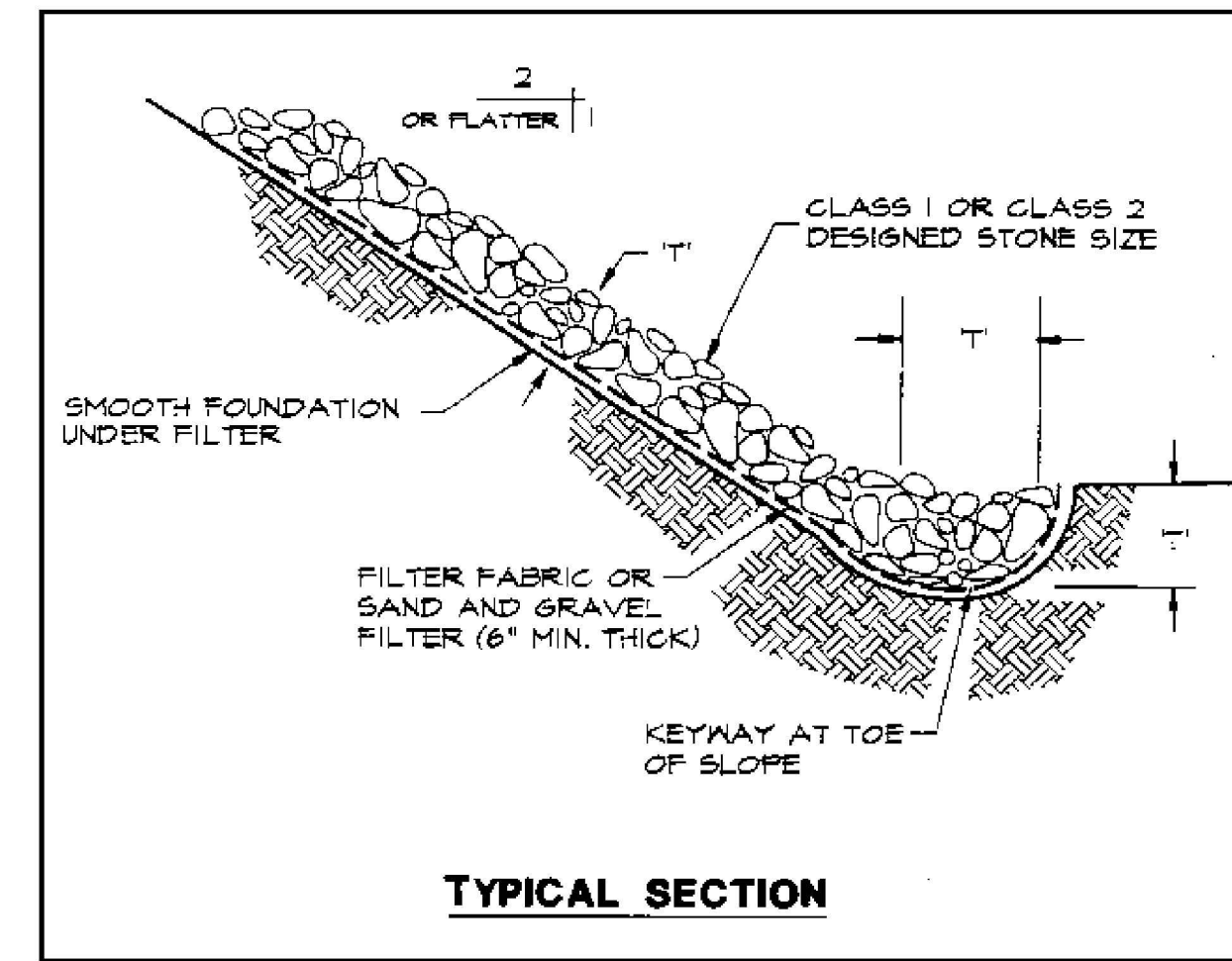


Figure 6.15b. Riprap Slope Protection  
Source: Erosion Draw

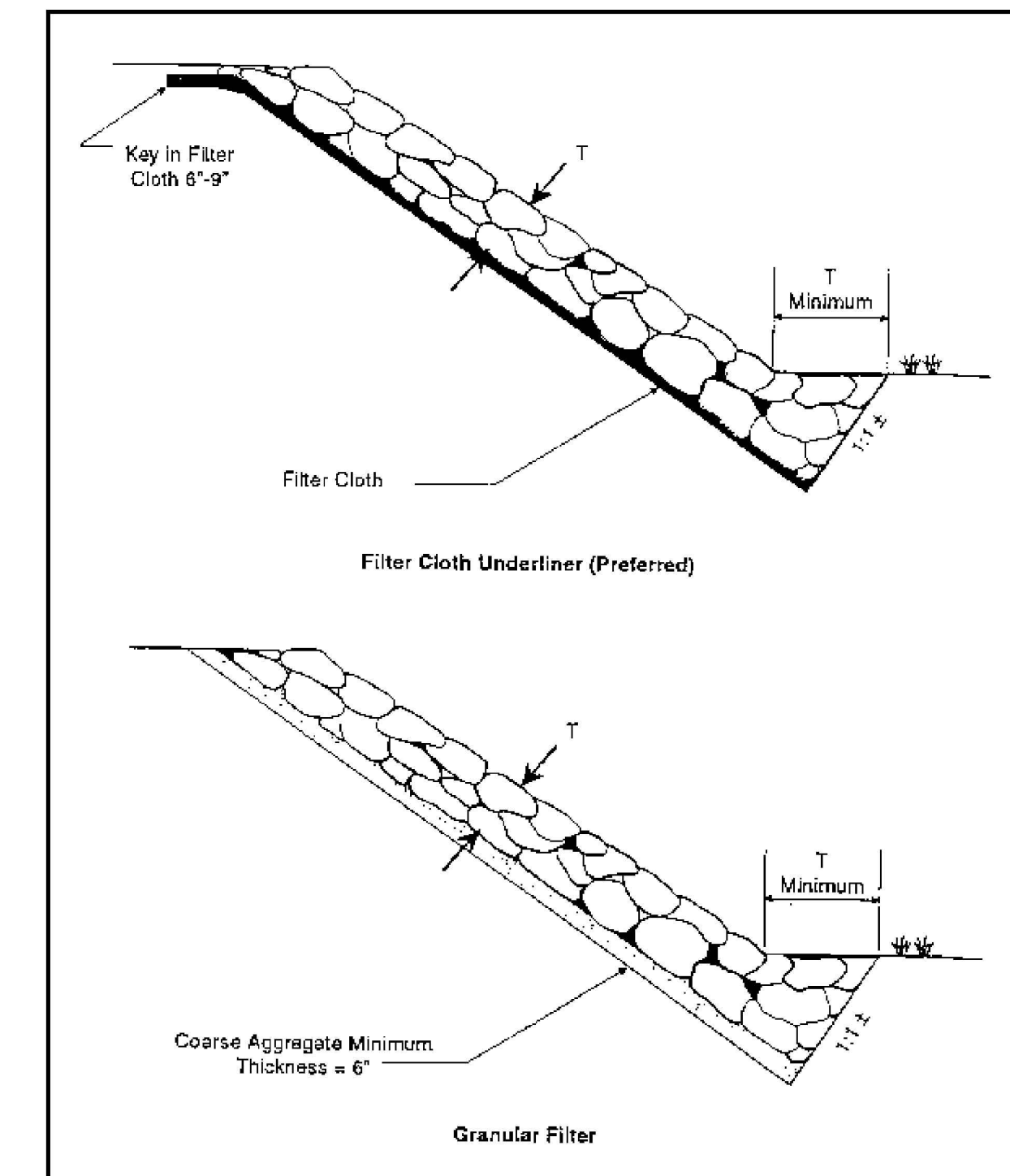


Figure 6.15c. Toe Requirements for Bank Stabilization  
Source: Virginia DH&T

PLEASE USE THE FOLLOWING SPECIFICATIONS:  
 MINIMUM STONE SIZE,  $d_{50} = 6'' = 0.5'$   
 MINIMUM STONE DEPTH,  $d = 9'' = 0.75'$   
 MINIMUM APRON WIDTH AT HEADWALL,  $3d_0 = 9'$   
 MINIMUM APRON LENGTH,  $L_a = 12'$   
 MINIMUM APRON WIDTH AT END =  $14'$   
 ASSUMING MAXIMUM TAILWATER CONDITIONS.



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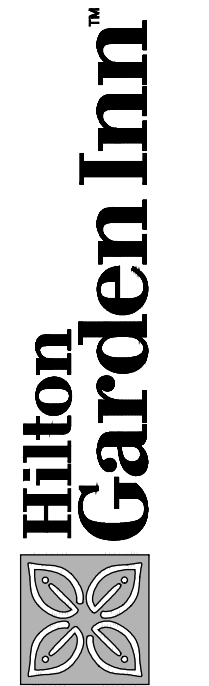
14491 N DALE HENRY HWY  
SUITE 250  
TAMPA, FL 33618  
813.367.0084



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HILTON GARDEN INN  
EAST SALAMANCA STREET  
PENSACOLA, FLORIDA



CLIENT:  
**PEACHTREE HOTEL GROUP**  
 ONE ALLIANCE CENTER, 3500  
 LENOX ROAD, SUITE 625  
 ATLANTA, GEORGIA 30326  
 PHONE: (404) 497-4111

REVISION HISTORY	
1	ISSUED FOR PERMIT/PRICING

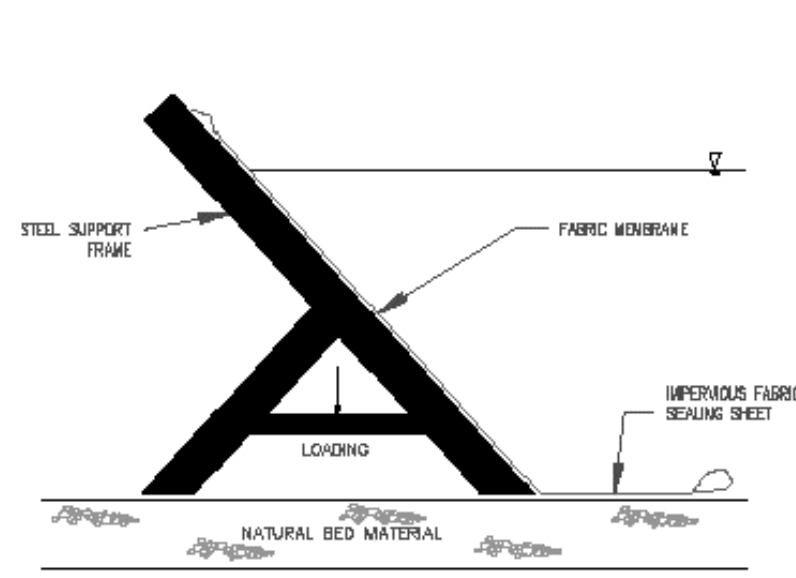
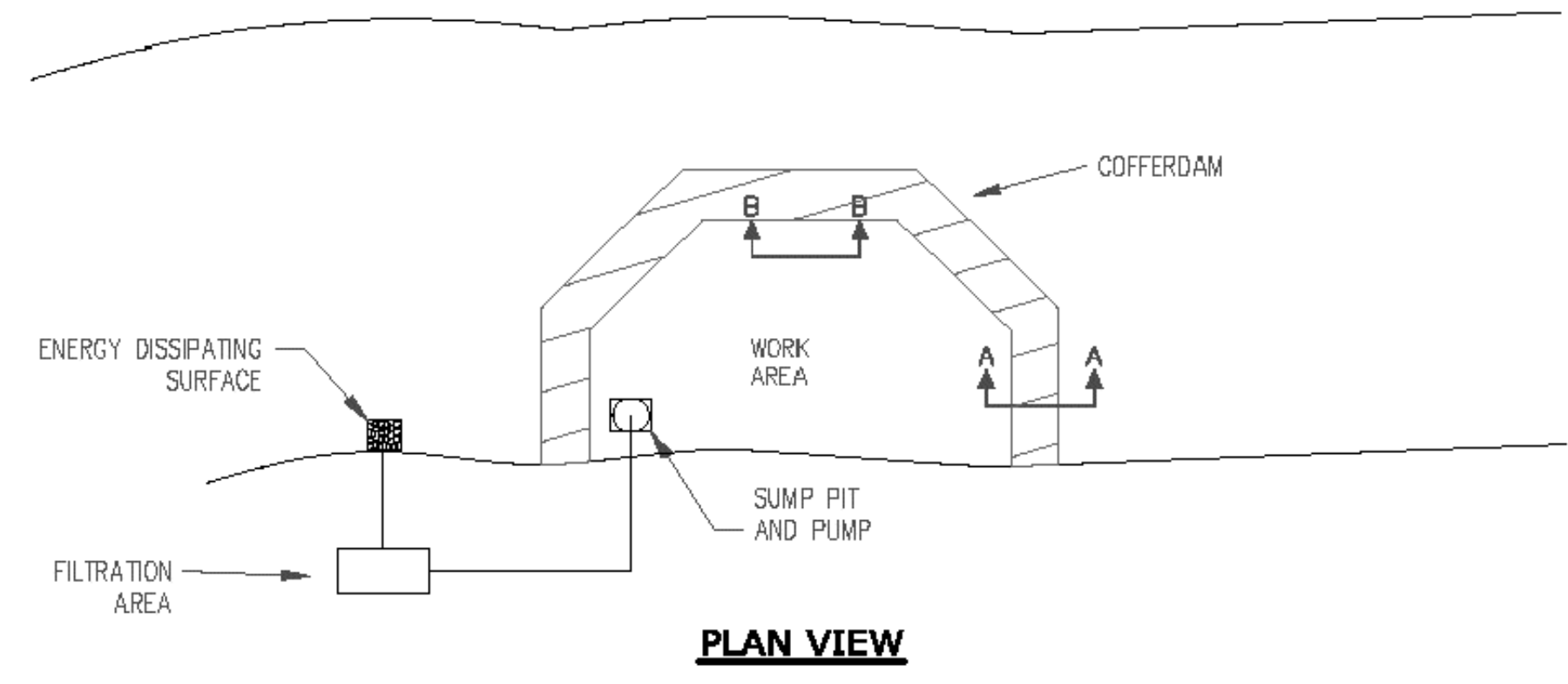
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PROJ # 170071  
 DWG NAME 170071 CO6 DWG  
 ISSUE DATE 05/17/2019  
 PROJ TSGR 1\_31

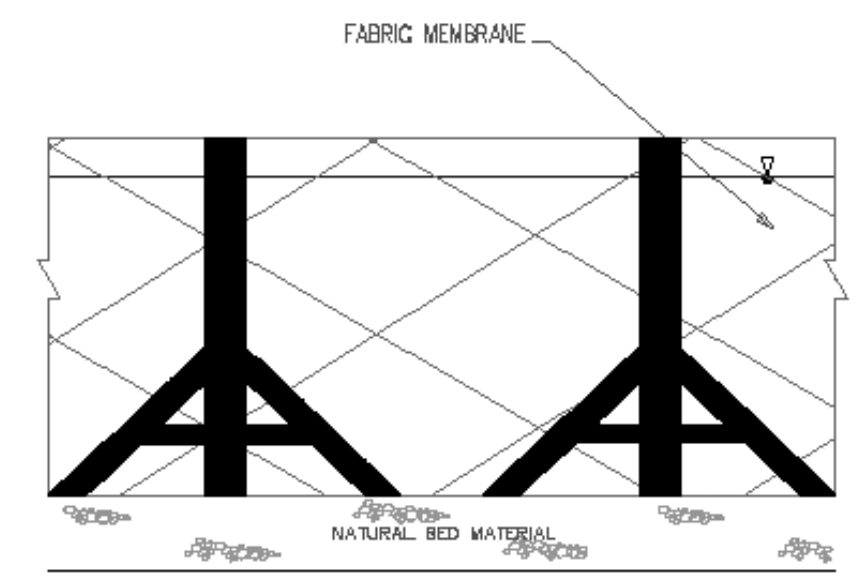
ESPC DETAILS IV

CO6.5  
 SHEET NUMBER

# A-FRAME PARTIAL COFFERDAM



**SECTION A-A**



**SECTION B-B**

- NOTES:**
1. ALL DISCHARGES SHOULD BE ON ENERGY DISSIPATING SURFACES.
  2. LOCATIONS FOR SUMP PIT, FILTRATION AREA, AND ENERGY DISSIPATING SURFACES MAY VARY DEPENDING ON SITE CONDITIONS.
  3. A-FRAME SHOULD BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS.

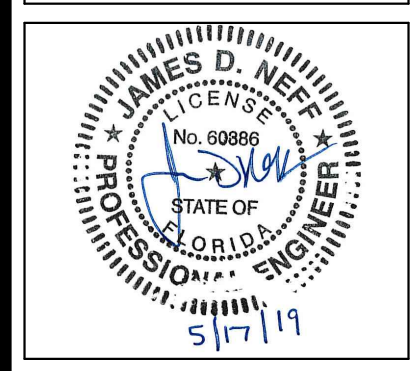
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Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.  
IUM-503AP  
SHEET 2 OF 7  
DATE 7-09-2012

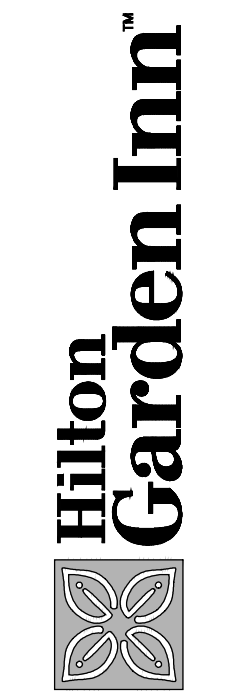


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HILTON GARDEN INN  
EAST SALAYANCA STREET  
PENSACOLA, FLORIDA



CLIENT:  
PEACHTREE HOTEL GROUP  
ONE ALLIANCE CENTER, 3500  
LENOX ROAD, SUITE 625  
ATLANTA, GEORGIA 30326  
PHONE: (404) 497-4111

REVISION HISTORY	
1	Issue for Permit/Pricing
2	
3	
4	
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PROJ # 170071  
DWG NAME 170071 CO6 DWG  
ISSUE DATE 05/17/2014  
PROJ TSGR J1

ESPC DETAILS V

CO6.6  
SHEET NUMBER



**PLANT SCHEDULE**

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT	REMARKS
	IC	8	Ilex cassine	Dahoon Holly	30 gal		10'-12' HT	STD, full head
	LN	8	Lagerstroemia indica 'Natchez'	'Natchez' Crape Myrtle	30 gal		8-10' HT	Minimum 3 trunks; full head; specimen quality
	QV	18	Quercus virginiana	Southern Live Oak	45 gal	3"Cal	12-14' HT	Specimen quality
	SS	22	Sabal palmetto	Cabbage Palmetto	NA			12-16' Stagger heights
	UA2	3	Ulmus parvifolia 'Allee'	Allee Lacebark Elm	45 gal	3"Cal	8-10' HT	Central leader, full head, specimen quality
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	HT	SPACING	REMARKS
	AZ	63	Alpinia zerumbet	Shell Ginger	3 gal		42" o.c.	
	CS	32	Camellia sasanqua 'Shishi-Gashira'	Camellia	5 gal		36" o.c.	Full form
	IV	51	Ilex vomitoria	Yaupon Holly	5 gal		36" o.c.	Full form
	LJ	45	Ligustrum japonicum	Japanese Privet	7 gal		60" o.c.	Full to ground
	LP	43	Loropetalum chinense 'Purple Diamond'	Purple Diamond Loropetalum	5 gal		42" o.c.	Full form
	MS	284	Miscanthus sinensis 'Adagio'	Adagio Miscanthus	3 gal		36" o.c.	Full form
	PM2	31	Podocarpus macrophyllus	Yew Pine	3 gal		48" o.c.	Full form
	SC2	11	Serenoa repens 'Cinerea'	Silver Saw Palmetto	7 gal	48"	48" o.c.	
SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	HT	SPACING	REMARKS
	JP	58	Juniperus chinensis 'Parsonii'	Parsoni Juniper	3 gal		36" o.c.	
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	HT	SPACING	REMARKS
	AB	91	Agapanthus africanus 'Blue'	Blue Lily of the Nile	1 gal		24" o.c.	Full form
	LP2	135	Lantana montevidensis 'Purple'	Purple Lantana	1 gal		24" o.c.	
	LS	246	Liriope muscari 'Variegata'	Variegated Liriope	1 gal		15" o.c.	Full form
	R3	34	Rosa x 'Meiggli'	Peach Drift Rose	1 gal		36" o.c.	Full form
SOD/SEED	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	HT	SPACING	REMARKS
	SOD	23,952 sf	Cynodon dactylon 'Tif 419'	Bermuda Grass	na			Well rooted healthy sod

**QUANTITY TAKEOFF DISCLAIMER:**  
 QUANTITIES NOTED ON PLANS ARE OFFERED AS A CONVENIENCE TO THE CONTRACTOR FOR BID PURPOSES ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.

**CERTIFICATION STATEMENT**  
 THE PROFESSIONAL SUBMITTING THE LANDSCAPE AND TREE PROTECTION PLANS HAS READ AND IS FAMILIAR WITH CH. 12-6 OF THE CODE OF THE CITY OF PENSACOLA, FLORIDA PERTAINING TO TREE AND LANDSCAPE REGULATION.

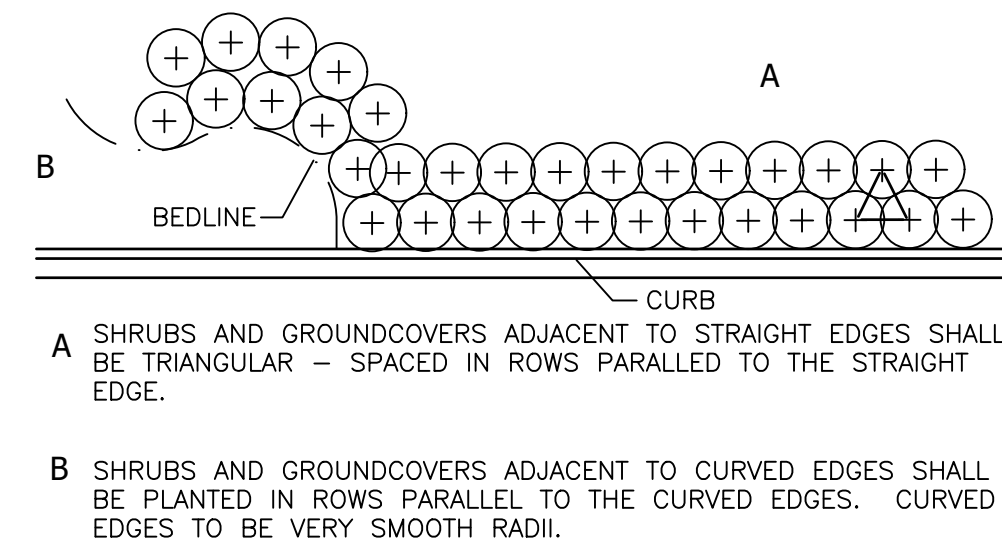
TREES TO BE REMOVED	TREES REQUIRED
(1) 16" PECAN	3
(2) 18" OAKS	6
(2) 20" OAKS	10
(1) 22" OAK	5
(4) 24" OAKS	20
(1) 24" BAY	5
(1) 32" OAK	8
(4) 36" OAKS	40
(1) 42" OAK	10
(2) 72" OAK	22
<b>TOTAL</b>	<b>129</b>

PROTECTED TREES	CREDITS
(2) 12" OAK	6
(1) 20" OAK	5
(1) 24" MAG	5
(1) 24" OAK	5
(1) 30" OAK	8
(3) 36" OAK	30
(1) 48" OAK	11
<b>TOTAL</b>	<b>70</b>

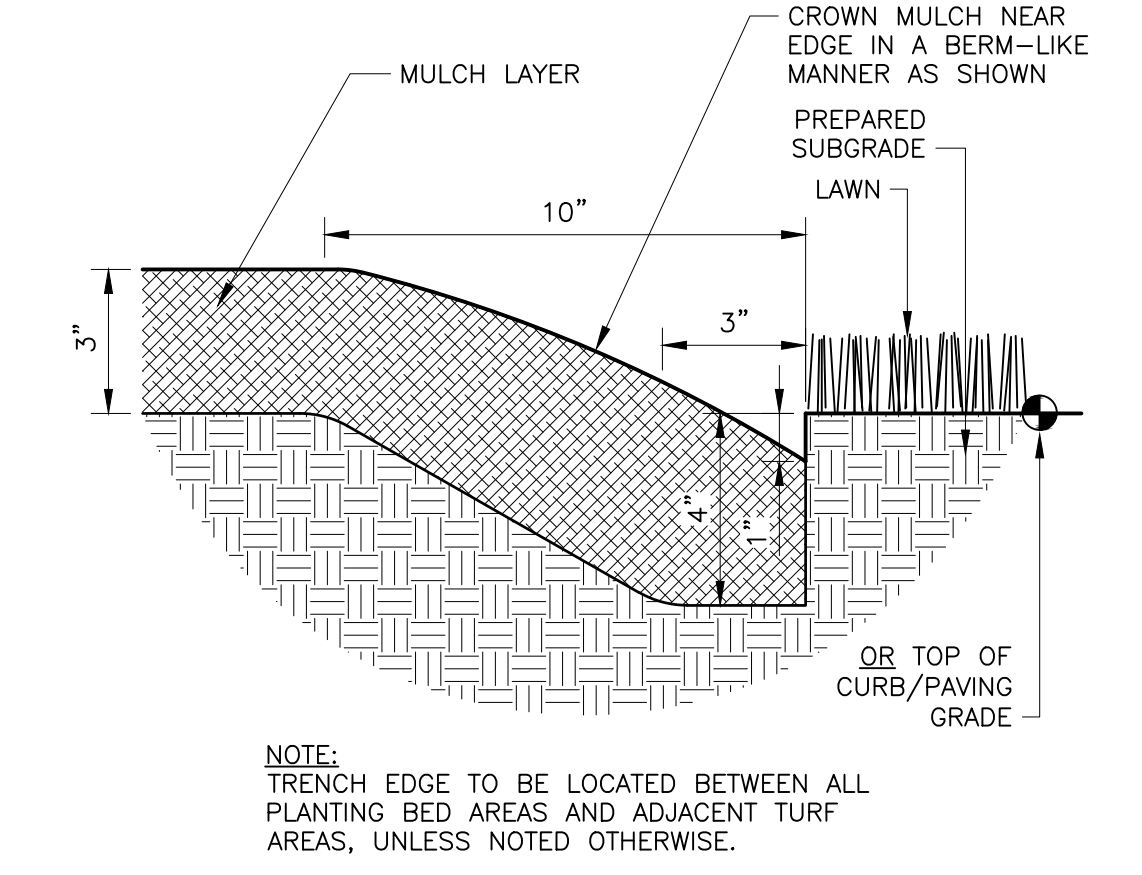
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 CREDITS FOR RETENTION OF PROTECTED TREES: 70  
 TREES PROVIDED: 59

TREES TOTAL: 129  
 TREES NEEDED: 0

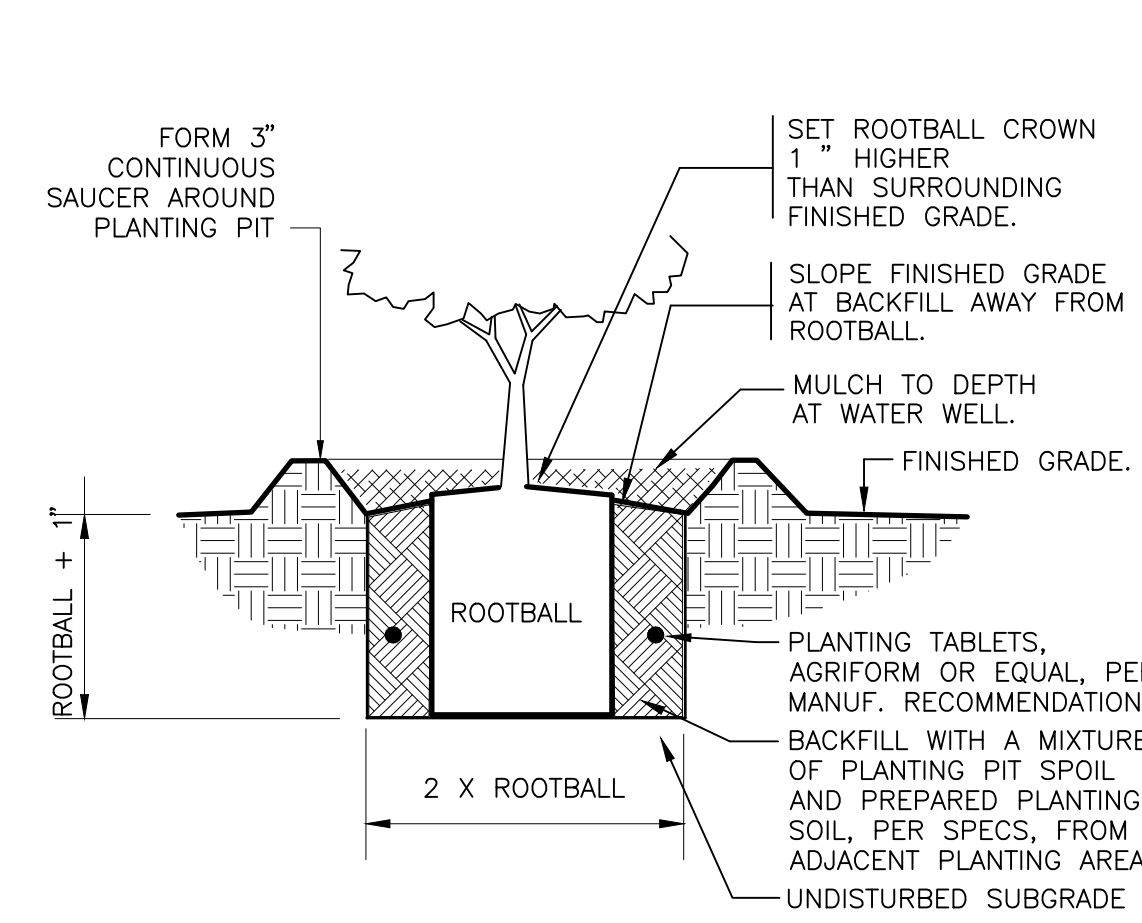
**STREET TREES:**  
 WEST PROPERTY LINE: 8 REQUIRED - 9 PROVIDED  
 EAST PROPERTY LINE: 7 REQUIRED - 7 PROVIDED  
 SOUTH PROPERTY LINE: 11 REQUIRED - 12 PROVIDED



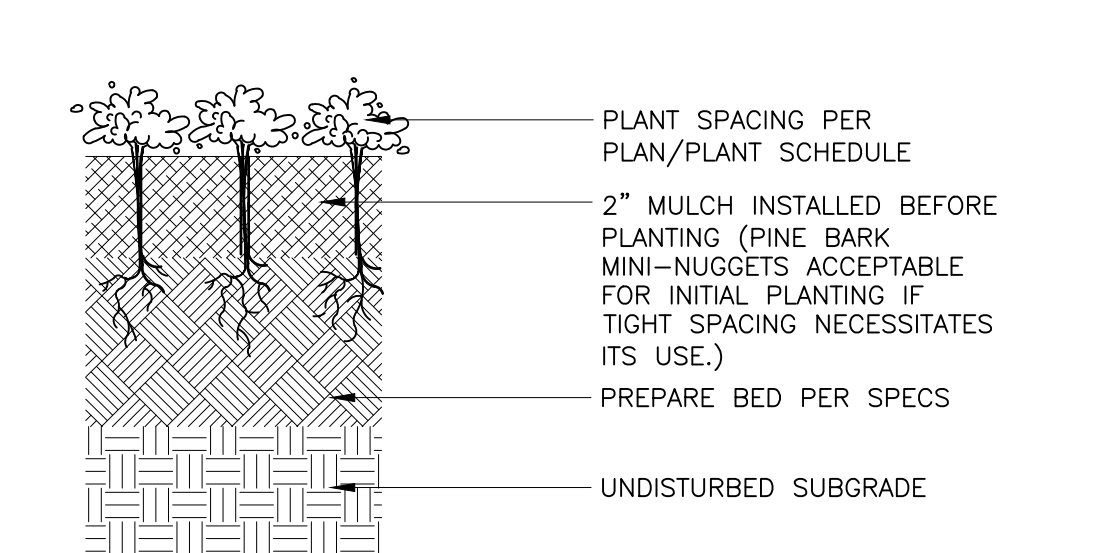
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 NOT TO SCALE 329399-04



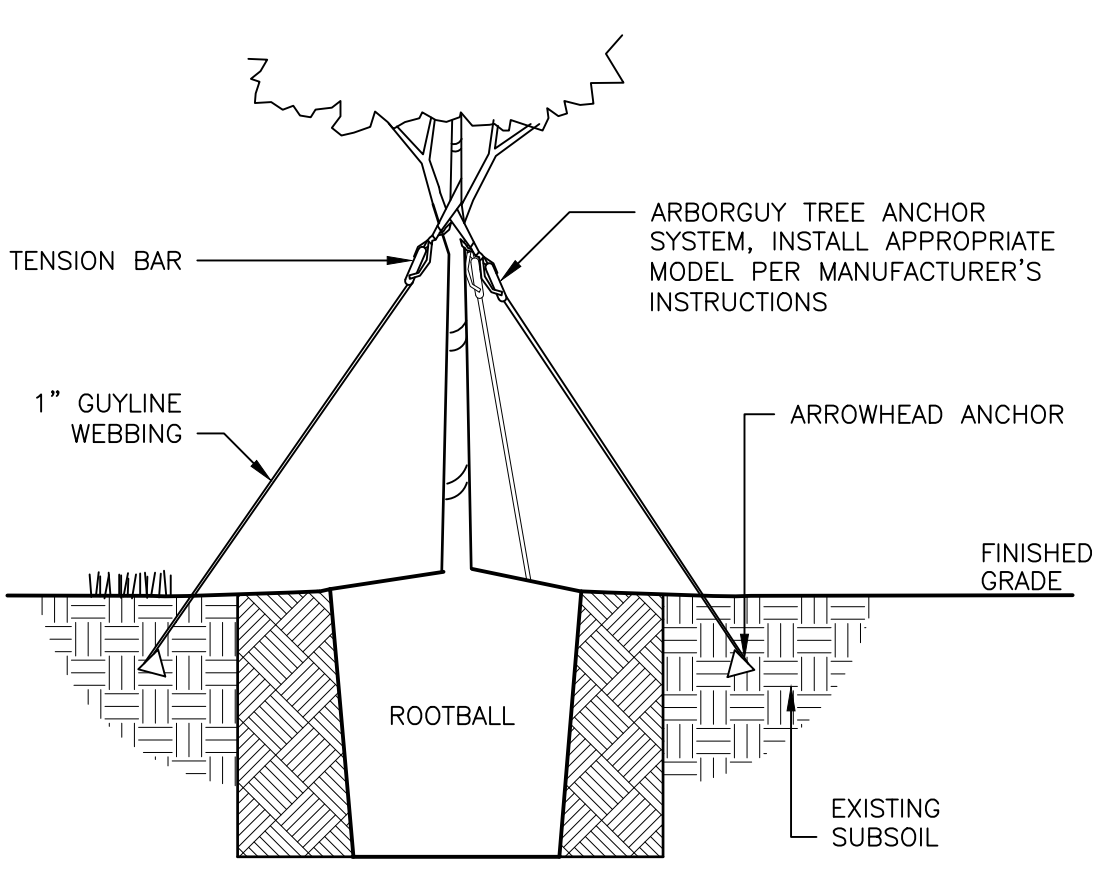
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 3" = 1'-0" 329413.23-02



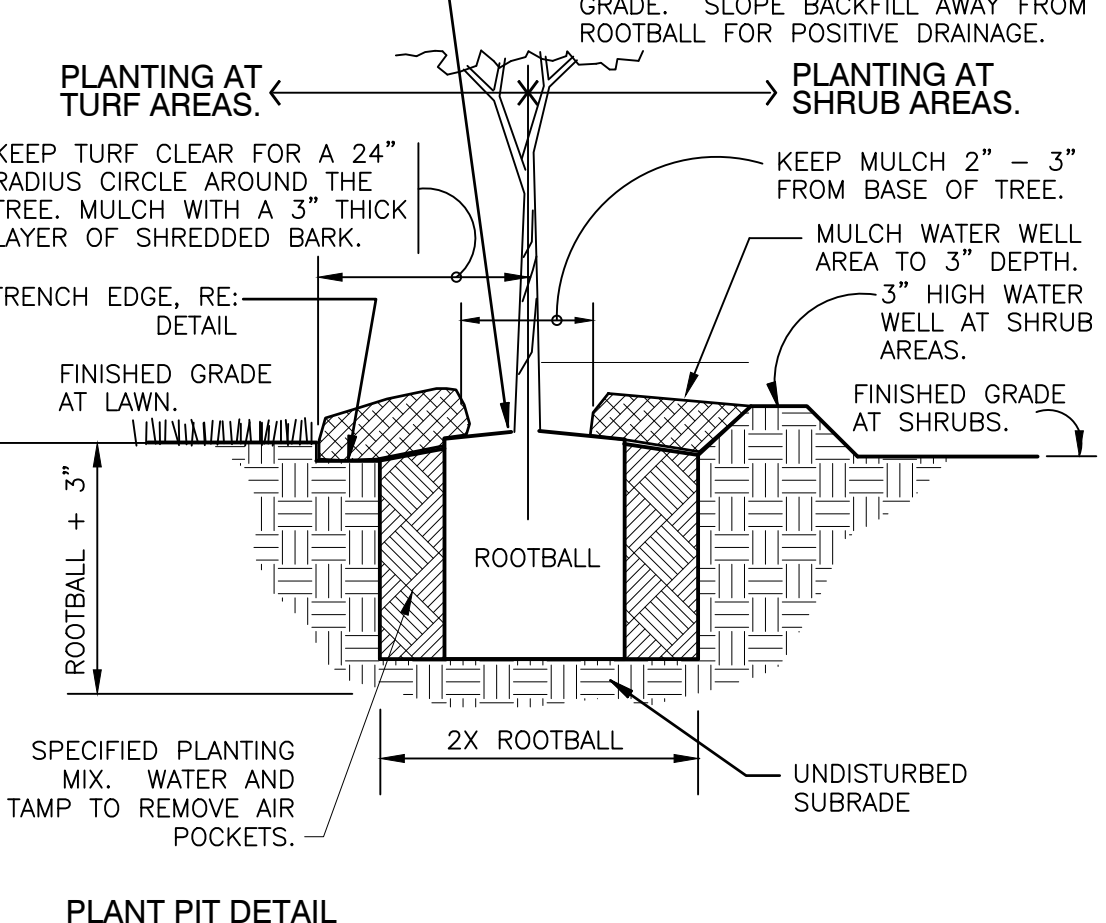
**3 SHRUB PLANTING**  
 1" = 1'-0" DETAIL-FILE



**4 GROUNDCOVER PLANTING**  
 3" = 1'-0"



**5 TREE PLANTING - GUY STRAP**  
 1" = 1'-0" 329343.26-02



**6 MULTI-TRUNK TREE STAKING**  
 1/2" = 1'-0" 329343-01

Key Plan

A Landscape Development Plan for  
**Pensacola Hilton Garden Inn**  
 Pensacola, Florida

Revisions		
No.	Date	Revisions / Submissions
06.19.18		CITY PERMIT
08.31.18		ISSUED FOR CONSTRUCTION
09.17.18		COORDINATION SET
09.21.18		PERMIT AND CONSTRUCTION SET
05.17.19		CITY PERMIT

LDC \_\_\_\_\_  
 Drawn \_\_\_\_\_  
 LCW \_\_\_\_\_  
 Checked \_\_\_\_\_  
 173150-012  
 Project No. \_\_\_\_\_  
 06.14.18  
 Date \_\_\_\_\_

Registration - FL 1A6656896

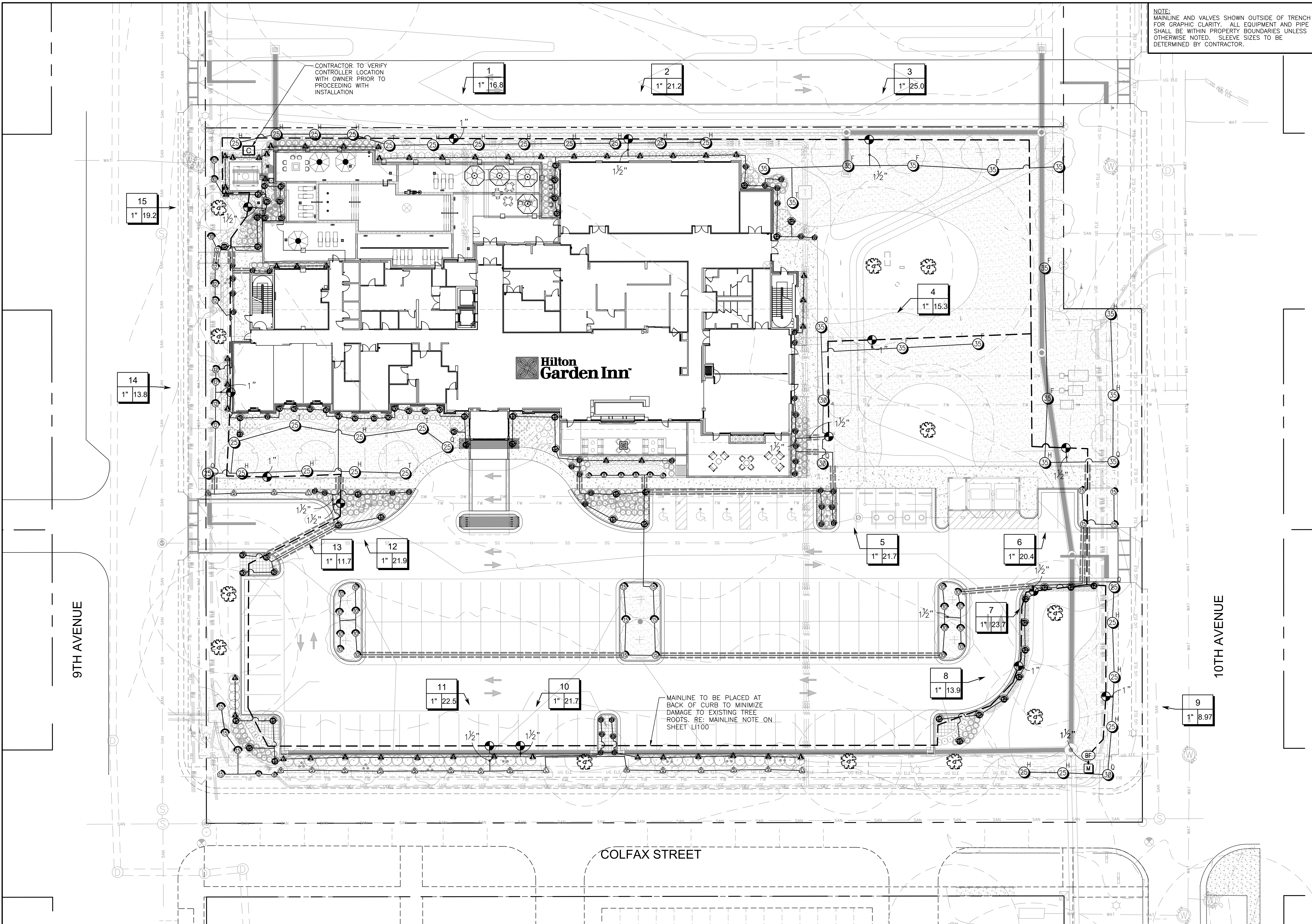
Drawing not valid without seal

Sheet Title

**LANDSCAPE PLAN**

Sheet No.

**LP500**



NOTE:  
 MAINLINE AND VALVES SHOWN OUTSIDE OF TRENCH FOR GRAPHIC CLARITY. ALL EQUIPMENT AND PIPE SHALL BE WITHIN PROPERTY BOUNDARIES UNLESS OTHERWISE NOTED. SLEEVE SIZES TO BE DETERMINED BY CONTRACTOR.

CONTRACTOR TO VERIFY CONTROLLER LOCATION WITH OWNER PRIOR TO PROCEEDING WITH INSTALLATION

MAINLINE TO BE PLACED AT BACK OF CURB TO MINIMIZE DAMAGE TO EXISTING TREE ROOTS. RE: MAINLINE NOTE ON SHEET LI100

Key Plan

A Landscape Development Plan for

*Pensacola Hilton Garden Inn*

Pensacola, Florida

Revisions	
No.	Date
06.19.18	CITY PERMIT
08.31.18	ISSUED FOR CONSTRUCTION
09.17.18	COORDINATION SET
09.21.18	PERMIT AND CONSTRUCTION SET
05.17.19	CITY PERMIT

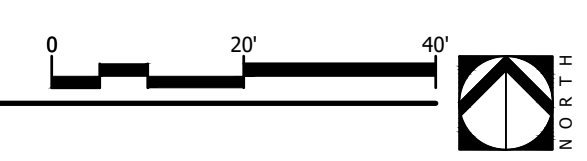
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 Drawn \_\_\_\_\_  
 LCW \_\_\_\_\_  
 Checked \_\_\_\_\_  
 173150-012  
 Project No.  
 06.14.18  
 Date

Registration - FL 1A6656896

Drawing not valid without seal

Sheet Title

LANDSCAPE PLAN



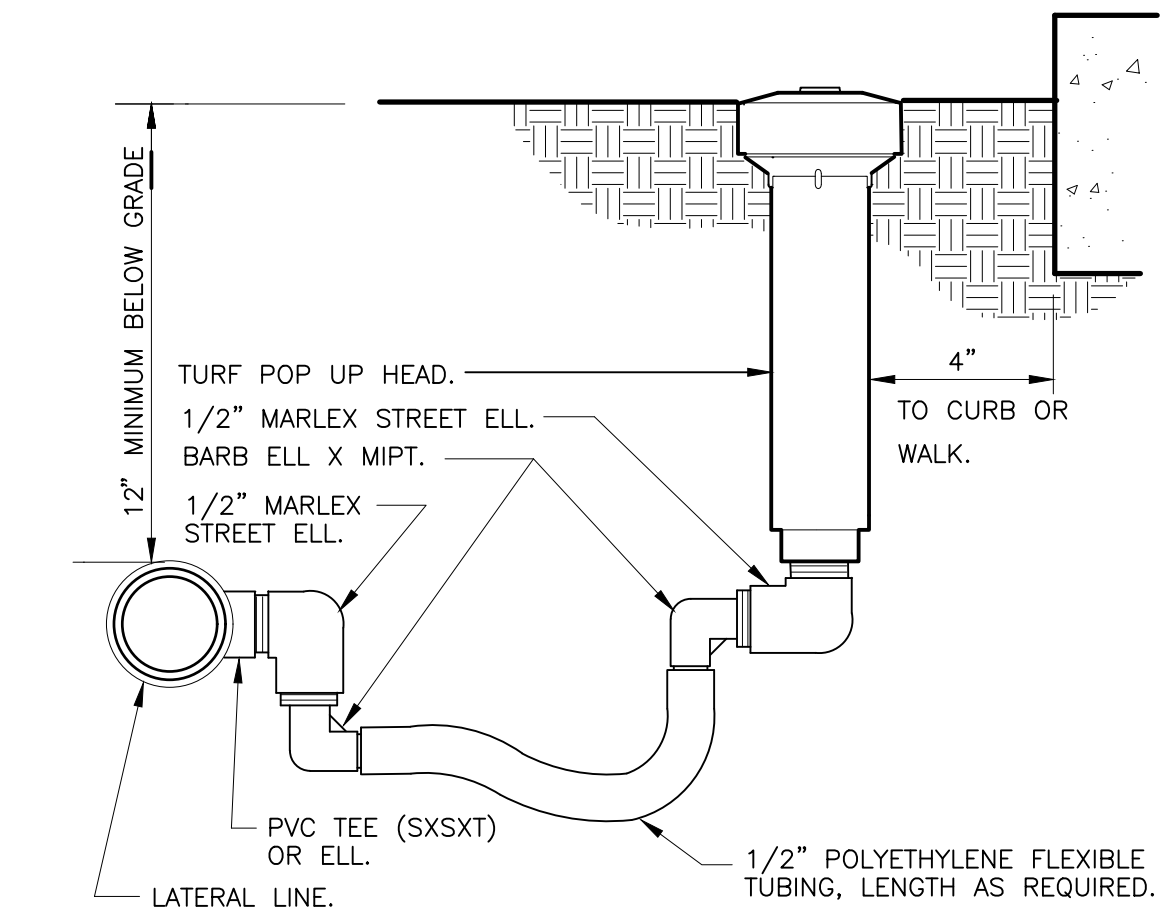
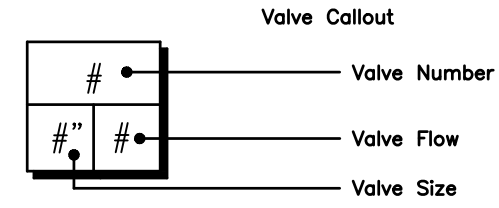
Sheet No.

**IRRIGATION SCHEDULE**

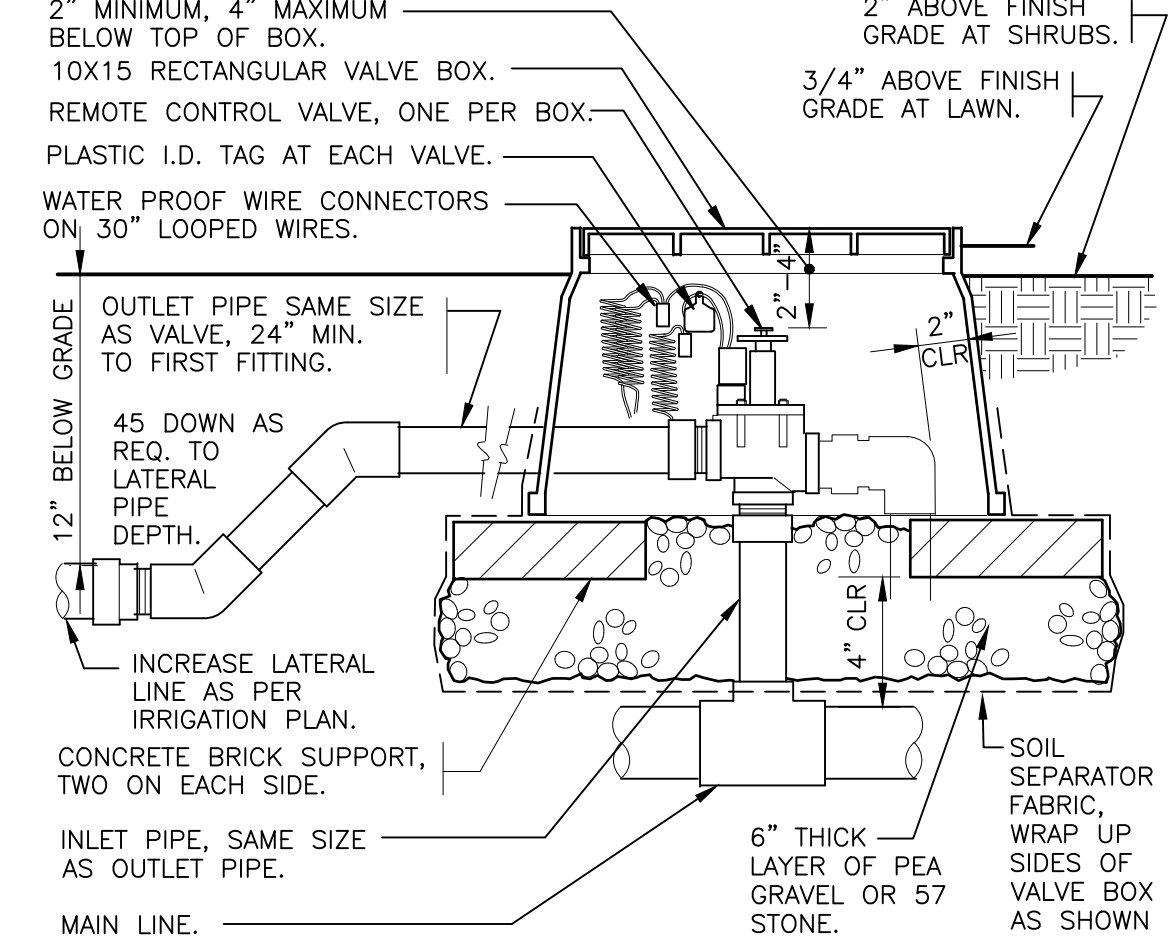
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▲	Rain Bird 1806-PRS 15 Strip Series	3	LCS	30	0.49	4'x15'
▲	Rain Bird 1806-PRS 15 Strip Series	3	RCS	30	0.49	4'x15'
▲	Rain Bird 1806-PRS 15 Strip Series	13	SST	30	1.21	4'x30'
●	Rain Bird 1806-PRS 8 Series MPR	5	180	30	0.52	8'
●	Rain Bird 1806-PRS 8 Series MPR	3	90	30	0.26	8'
●	Rain Bird 1806-PRS 10 Series MPR	10	180	30	0.79	10'
●	Rain Bird 1806-PRS 10 Series MPR	4	90	30	0.39	10'
●	Rain Bird 1806-PRS 10 Series MPR	5	120	30	0.53	10'
●	Rain Bird 1806-PRS 12 Series MPR	4	180	30	1.30	12'
●	Rain Bird 1806-PRS 12 Series MPR	2	90	30	0.65	12'
●	Rain Bird 1806-PRS 12 Series MPR	2	120	30	0.87	12'
●	Rain Bird 1806-PRS 15 Series MPR	5	180	30	1.85	15'
●	Rain Bird 1806-PRS 15 Series MPR	9	90	30	0.92	15'
▲	Rain Bird 1812-PRS 15 Strip Series	11	LCS	30	0.49	4'x15'
▲	Rain Bird 1812-PRS 15 Strip Series	12	RCS	30	0.49	4'x15'
▲	Rain Bird 1812-PRS 15 Strip Series	27	SST	30	1.21	4'x30'
●	Rain Bird 1812-PRS 8 Series MPR	22	180	30	0.52	8'
●	Rain Bird 1812-PRS 8 Series MPR	21	90	30	0.26	8'
●	Rain Bird 1812-PRS 8 Series MPR	1	120	30	0.35	8'
●	Rain Bird 1812-PRS 10 Series MPR	14	180	30	0.79	10'
●	Rain Bird 1812-PRS 10 Series MPR	14	90	30	0.39	10'
●	Rain Bird 1812-PRS 10 Series MPR	2	120	30	0.53	10'
●	Rain Bird 1812-PRS 12 Series MPR	7	180	30	1.30	12'
●	Rain Bird 1812-PRS 12 Series MPR	3	90	30	0.65	12'
●	Rain Bird 1812-PRS 12 Series MPR	1	120	30	0.87	12'
●	Rain Bird 1812-PRS 15 Series MPR	8	180	30	1.85	15'
●	Rain Bird 1812-PRS 15 Series MPR	14	90	30	0.92	15'
●	Rain Bird 1812-PRS 15 Series MPR	1	120	30	1.23	15'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
ARC	Rain Bird 5006-R-PC,FC-MPR Turf Rotor, 6.0" Pop-Up, Plastic Riser, Matched Precipitation Rotor (MPR nozzle). Arc and Radius as per Symbol. 25 ft-red, 30 ft-green, 35ft-beige. Pressure Regulating.	28	25	23'	
ARC	Rain Bird 5006-R-PC,FC-MPR Turf Rotor, 6.0" Pop-Up, Plastic Riser, Matched Precipitation Rotor (MPR nozzle). Arc and Radius as per Symbol. 25 ft-red, 30 ft-green, 35ft-beige. Pressure Regulating.	3	25	29'	
ARC	Rain Bird 5006-R-PC,FC-MPR Turf Rotor, 6.0" Pop-Up, Plastic Riser, Matched Precipitation Rotor (MPR nozzle). Arc and Radius as per Symbol. 25 ft-red, 30 ft-green, 35ft-beige. Pressure Regulating.	15	25	32'	

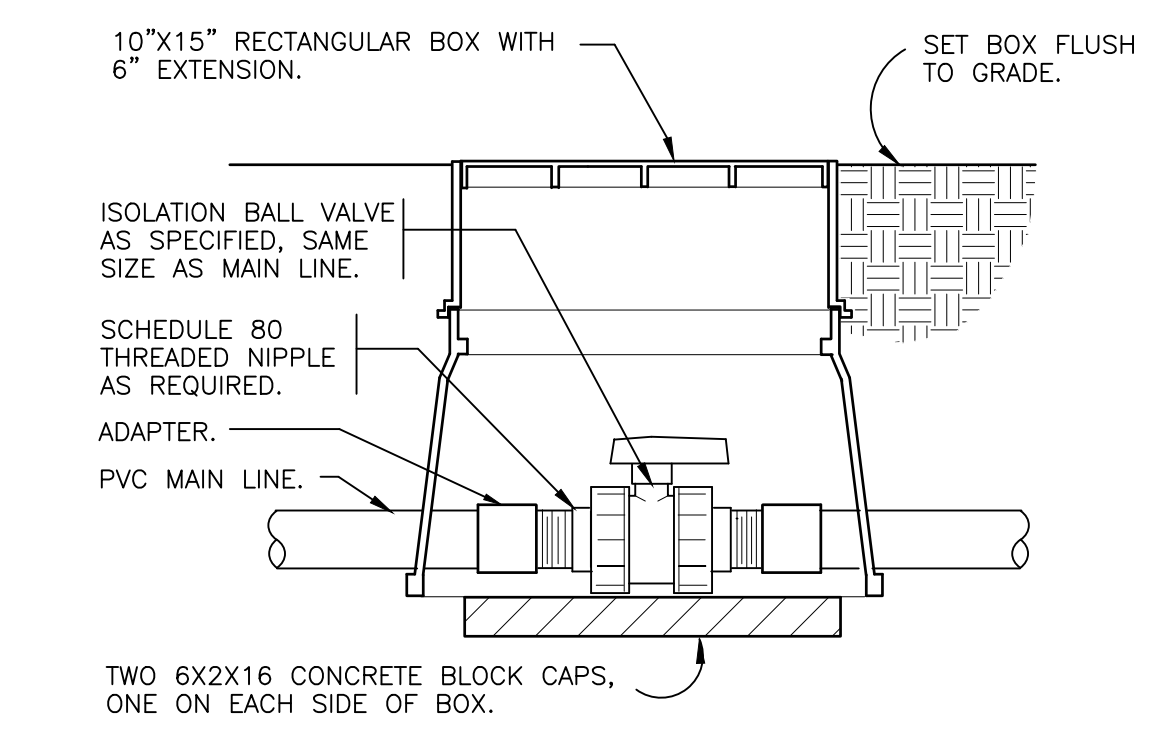
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
●	Rain Bird PGA Globe 1", 1-1/2", 2" Electric Remote Control Valve, Globe.	15
BF	Febco 765 1" Pressure Vacuum Breaker, brass with ball valve SOV. Install 12" (305MM) above highest downstream outlet and the highest point in the downstream piping.	1
C	Rain Bird ESP8LXMEF with (03) ESPLXMSM4 20 Station Commercial Controller. Mounted on a Plastic Wall Mount. Flow Sensing and Water Management Capabilities.	1
M	Water Meter 1" Basis of design 37.5 gpm @ 52 psi, contractor to verify prior to installation	1
---	Irrigation Lateral Line: PVC Class 200 SDR 21 Only lateral transition pipe sizes 1 1/2" and above are indicated on the plan, with all others being 1" in size.	4,280 l.f.
---	Irrigation Mainline: PVC Class 200 SDR 21	1,620 l.f.
---	Pipe Sleeve: PVC Class 200 SDR 21	549.2 l.f.



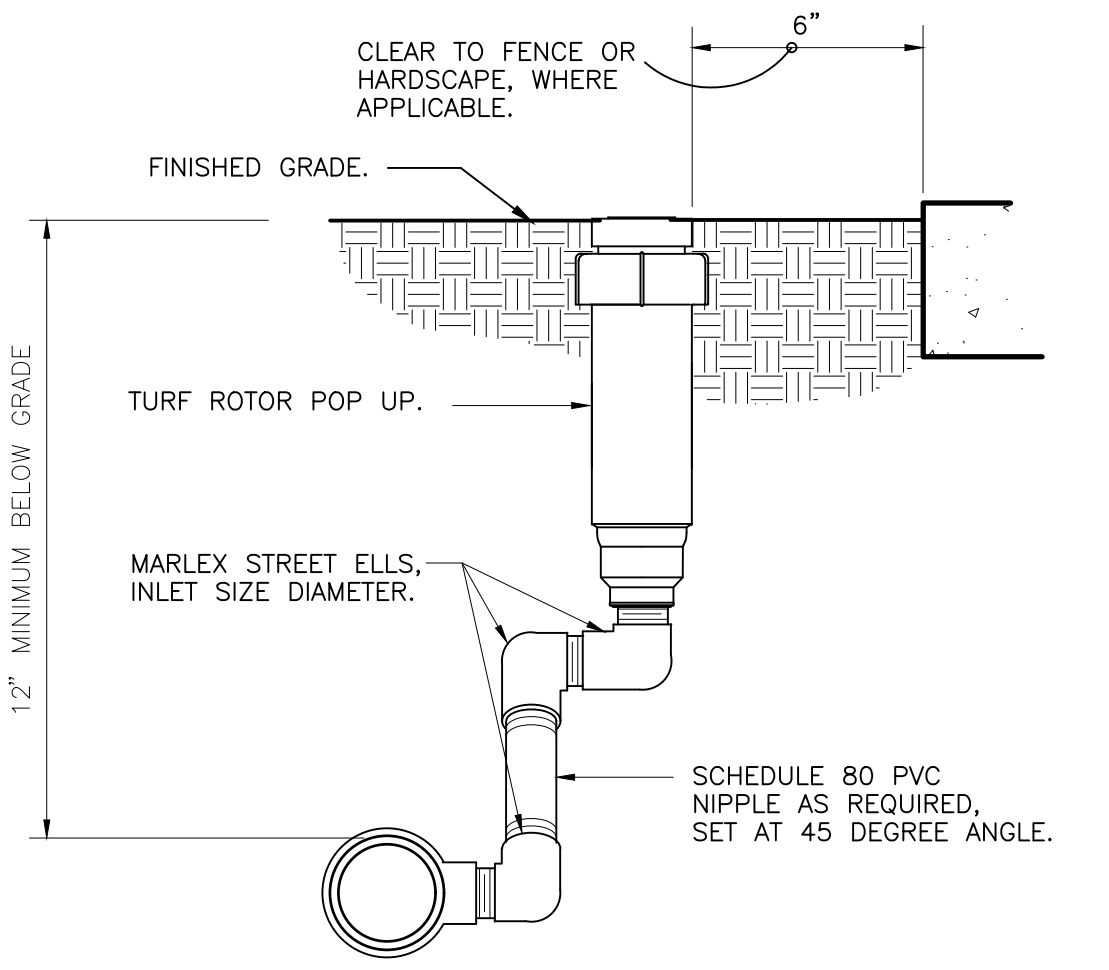
**1 TURF SPRAY FLEX ASSEMBLY**  
3" = 12" 328413.76-13



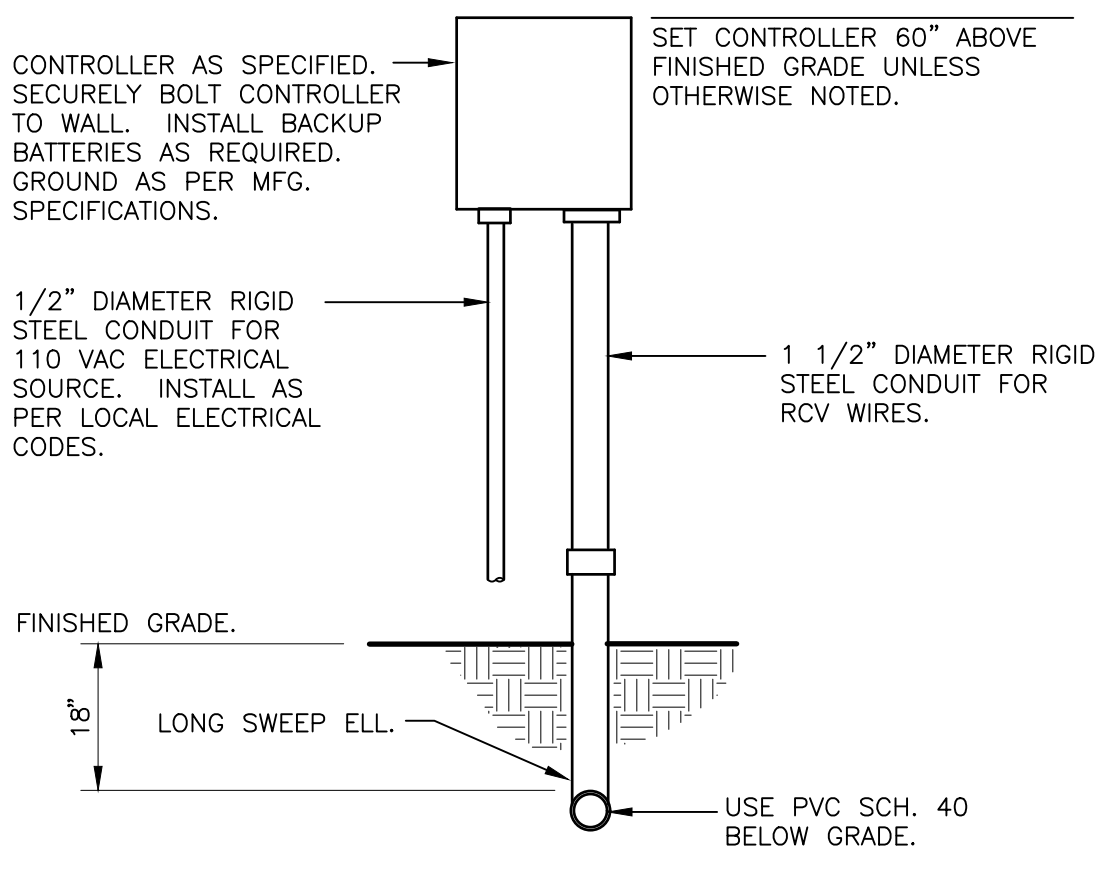
**4 ELECTRIC REMOTE CONTROL VALVE**  
1 1/2" = 12" 328413.76-13



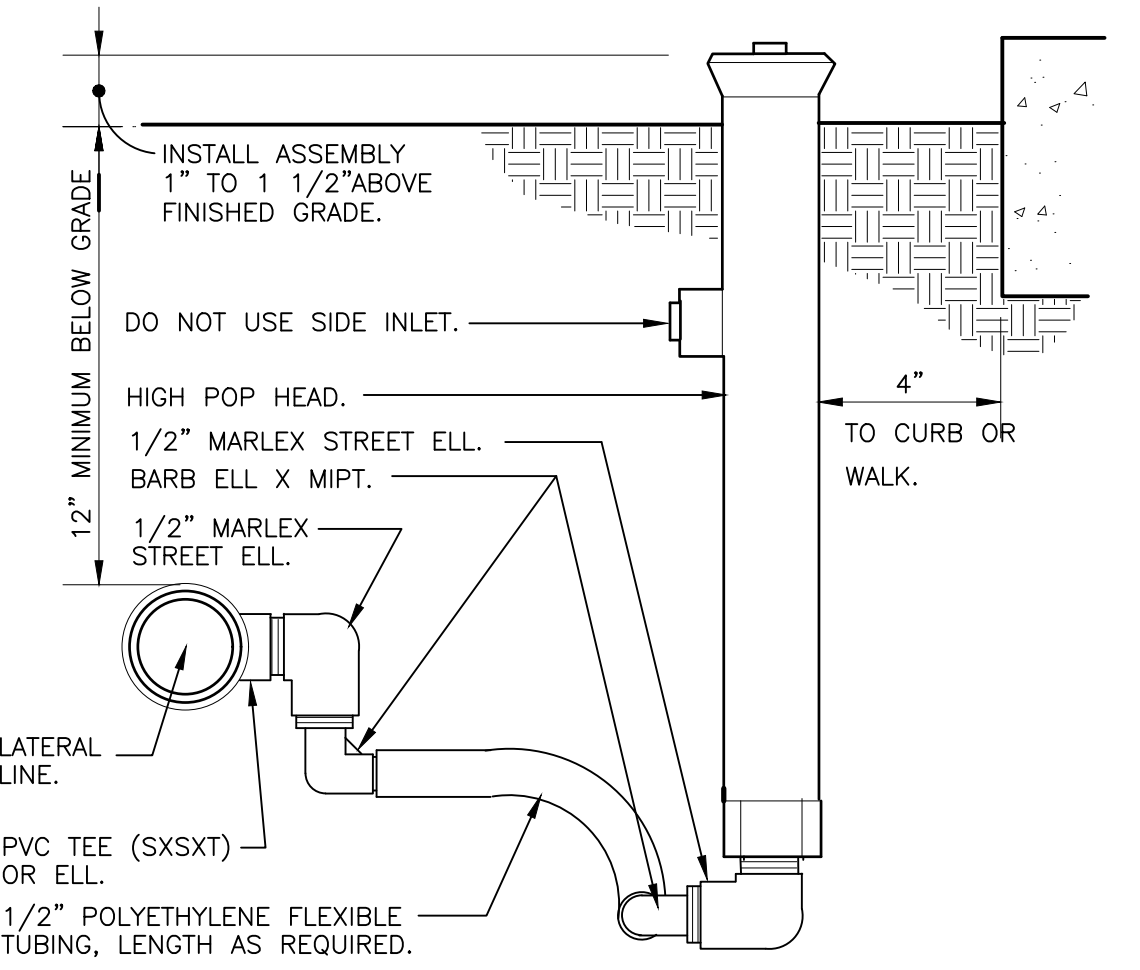
**7 TRUE UNION BALL ISOLATION VALVE**  
1 1/2" = 12" 328413.76-13



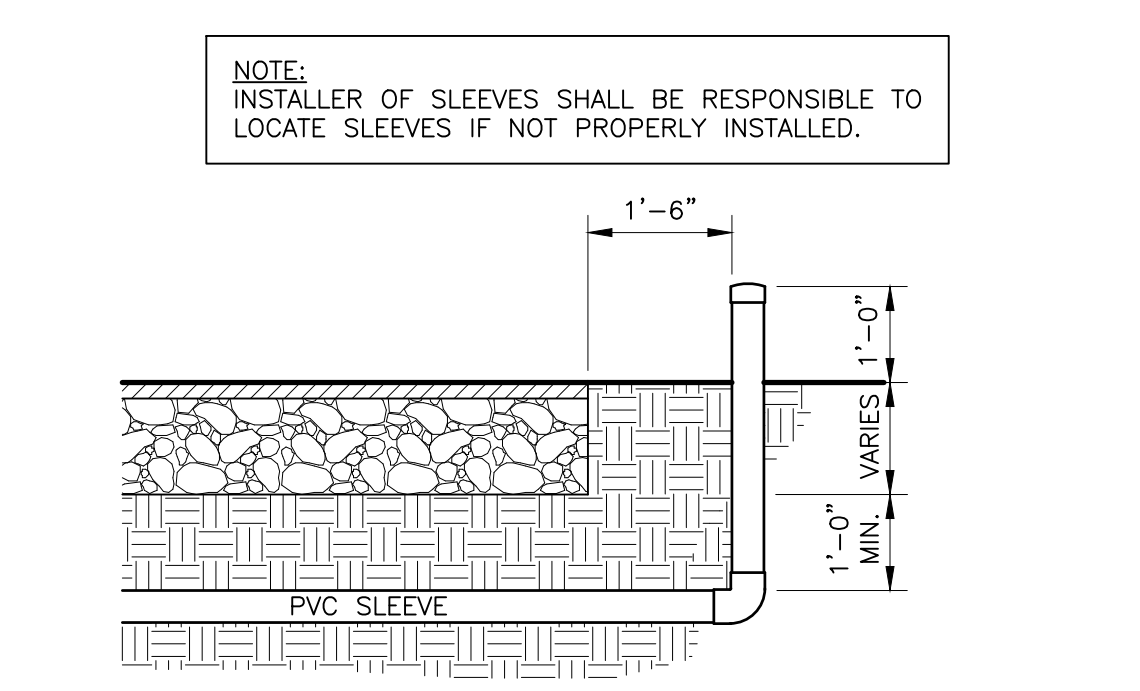
**2 TURF ROTOR MARLEX ASSEMBLY**  
3" = 12" 328403.16-01



**5 WALL MOUNT CONTROLLER**  
1" = 12" 328409.13-01



**3 SHRUB SPRAY HIGHPOP W/ FLEX ASSEMBLY**  
3" = 12" 328403.29-01



**6 SLEEVING DETAIL**  
1/2" = 1'-0" 328413.76-13

**QUANTITY TAKEOFF DISCLAIMER:**  
QUANTITIES NOTED ON PLANS ARE OFFERED AS A CONVENIENCE TO THE CONTRACTOR FOR BID PURPOSES ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.



Key Plan

A Landscape Development Plan for

*Pensacola Hilton Garden Inn*

Pensacola, Florida

No.	Date	Revisions / Submissions
06.19.18		CITY PERMIT
08.31.18		ISSUED FOR CONSTRUCTION
09.17.18		COORDINATION SET
09.21.18		PERMIT AND CONSTRUCTION SET
05.17.19		CITY PERMIT

Registration - FL 1A6656896

LDC Drawn  
LCW Checked  
173150-012  
Project No.  
06.14.18  
Date

Drawing not valid without seal

Sheet Title

LANDSCAPE PLAN

Sheet No.

LI500