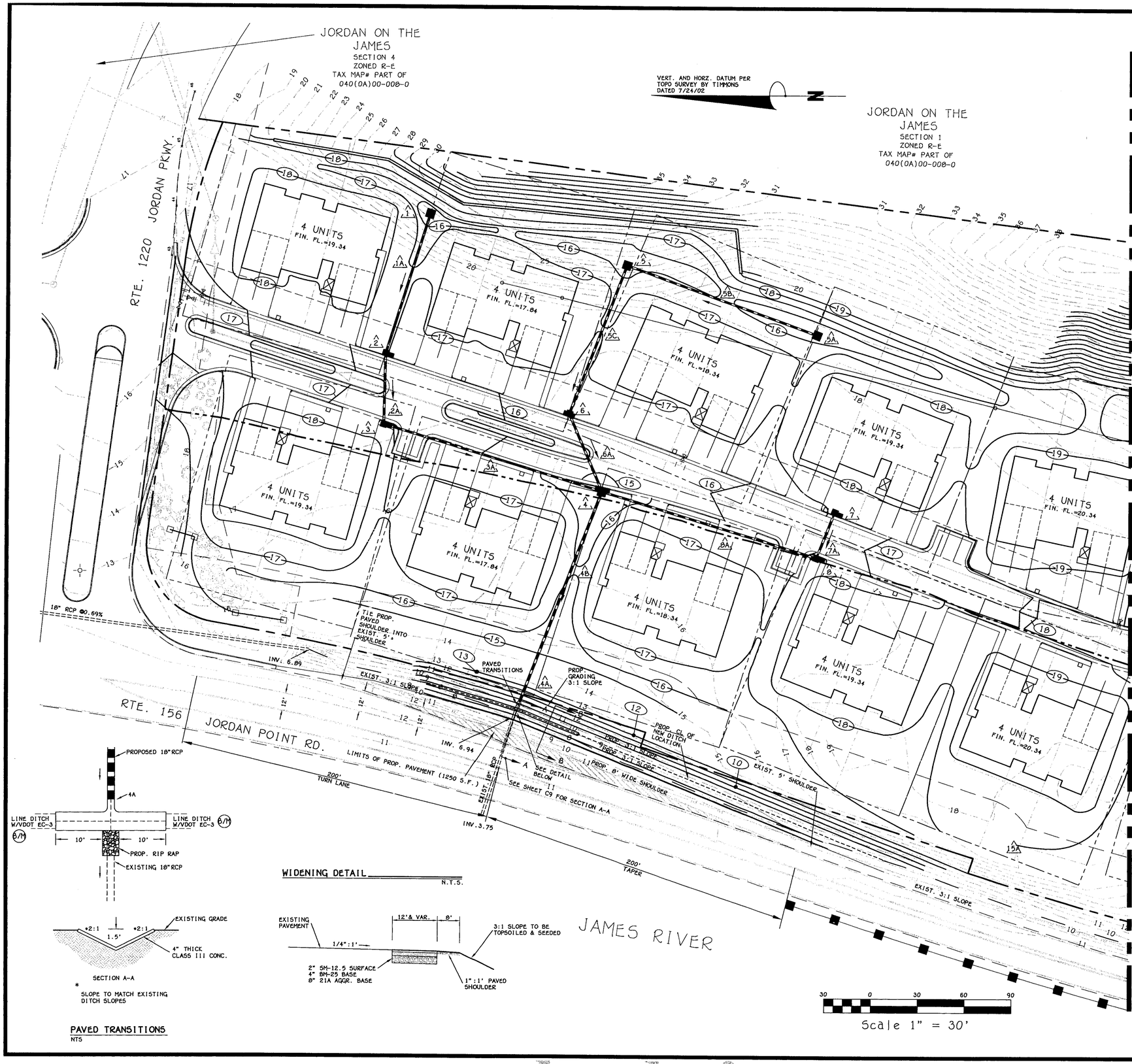


PAVED TRANSITIONS
NTS

WIDENING DETAIL
N.T.S.

Drainage Structures

ALL CURB DROP INLETS TO HAVE TYPE A NOSE
ALL DI-7'S TO HAVE TYPE III GRATES
ALL STORM SEWER TO BE CLASS III CONC.
ALL STORM STRUCTURES TO HAVE STEPS IF H=4' OR GREATER
* INLET SHAPING REQUIRED

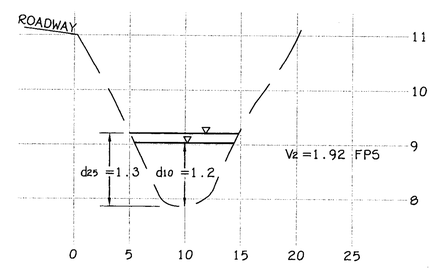
1 DI-7 H=2.83 TOP= 15.50 OUT= 12.67
1A 95.0 LF 15" RCP @ 0.49%
2 DI-3B (L=6') H=5.08 TOP= 17.18 IN= 12.20 OUT= 12.10
2A 46.0 LF 15" RCP @ 0.50%
* 3 DI-3B (L=6') H=5.23 TOP= 17.00 IN = 11.87 OUT = 11.77
3A 146.00 LF 15" RCP @ 0.58%
* 4 DI-4C (L=6') H=4.53 TOP= 15.20 IN(3)= 10.92 IN(6)= 10.92 OUT= 10.67
5B 130.0 LF 15" RCP @ 0.50%
5A DI-7 H=3.13 TOP= 15.80 INV = 12.67
5C 103.19 LF 15" RCP @ 0.46%
* 5 DI-7 H=3.86 TOP= 15.78 IN = 12.02 OUT= 11.92
6A 54.52 LF 15" RCP @ 0.79%
* 6 DI-3C (L=6') H=4.50 TOP= 15.93 IN = 11.45 OUT= 11.35
7A 32.0 LF 15" RCP @ 0.44%
7 DI-3B (L=6') H=3.92 TOP= 17.03 INV = 13.11
8A 144.54 LF 15" RCP @ 1.35%
* 8 DI-3B (L=6') H=4.16 TOP= 17.03 IN = 12.97 OUT= 12.87
8B 146.0 L.F. 18" RCP @ 1.64%
4A END SECTION INV= 8.27 ES-1

SECTION B-B

GIVEN:

	PT 4A	PT 18A	AREA BEHIND UNITS	
Q_{10}	=12.63 CFS +	0.22 CFS +	2.55 CFS	=15.4 CFS

Q_2 =11.5 CFS
Q_{25} =18.65 CFS
n=0.03
S_o =0.005
$S_{1/2}$= 0.07
1.49/0.03=49.67



	A	WP	R	R2/3	Q
	6	9	0.67	0.76	15.8 CFS
*	7.4	7.0	1.05	1.04	26.7 CFS >18.65 CFS(Q25)

MOST CRITICAL CROSS SECTION WITH MAXIMUM CFS CONTRIBUTING- MEETS MS-19 ∴ DITCH IS ADEQUATE

JOB NO. 04287-06

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FILED: 04287GR
DESIGNED: GLW
CHECKED: KLB
DATE: OCT. 10, 2005
REVISED: MAR. 15, 2006 PER COUNTY COMMENTS
REVISED: MAY 3, 2006 PER COUNTY COMMENTS
REVISED: JUNE 6, 2006 PER COUNTY COMMENTS

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COMMONWEALTH OF VIRGINIA
KENNETH L. BARNES
No.23867
PROFESSIONAL ENGINEER

PROJECT:
Waterside at Jordan Point
Condominiums

Bland District
Prince George County, Virginia

SHEET:
Grading and Drainage Plan

SHEET NO:
C5

JOB NO. 04287

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