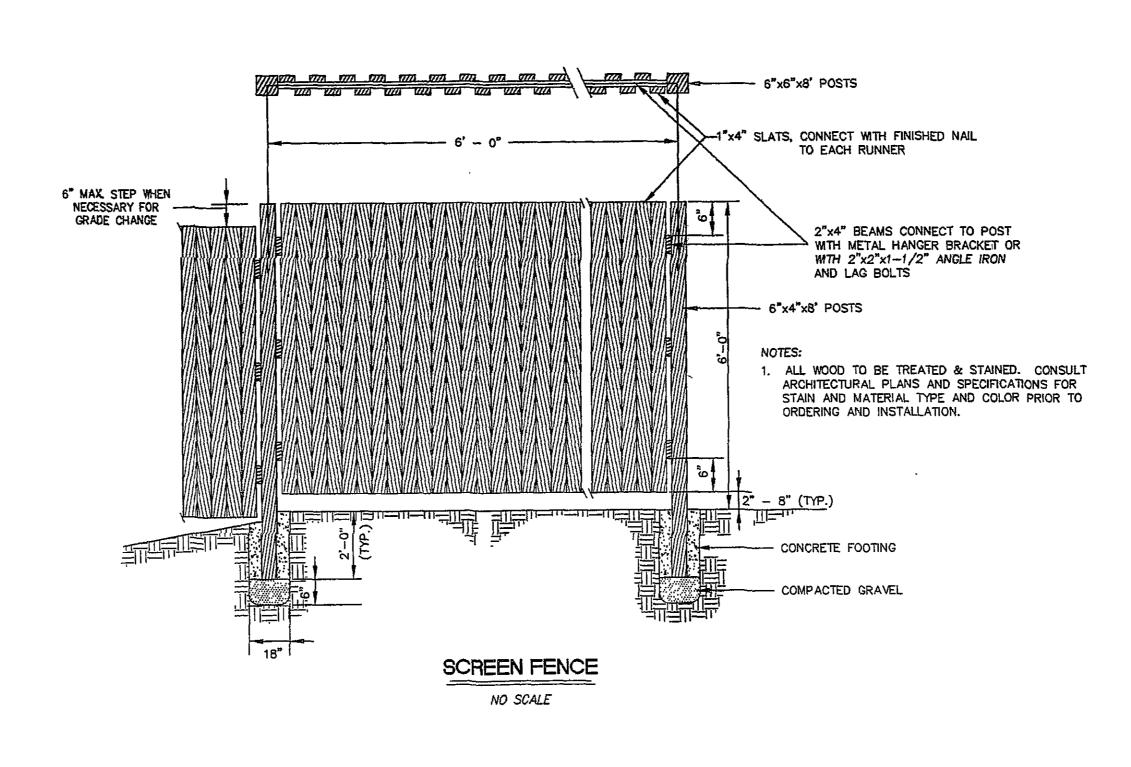
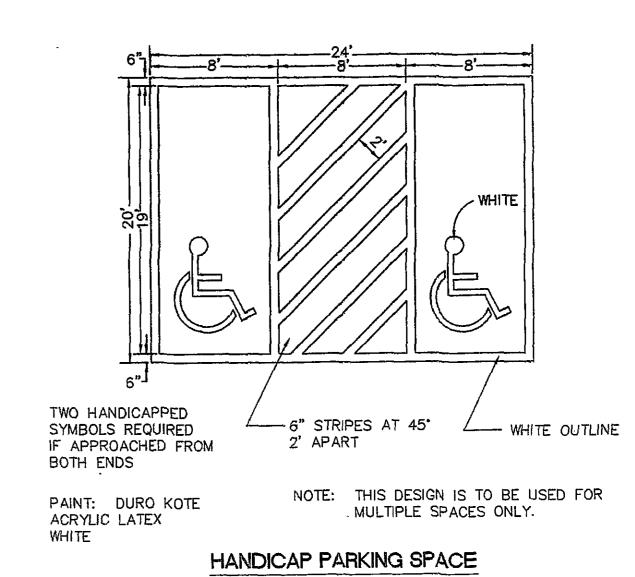
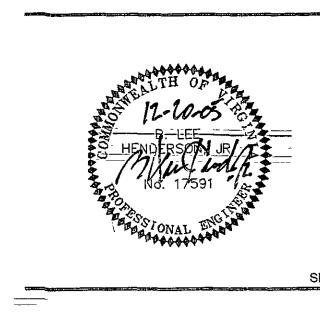


NO SCALE





NO SCALE



PERMIT AND CONSTRUCTION S

FOUNDATION PERMIT SET

SITE DEVELOPMENT SUBMISSIO

85% CONSTRUCTION DOC. SET

DESIGN DEVELOPMENT SET

SCMEMATIC DESIGN SET

PACKAGE #5: 12/5/05

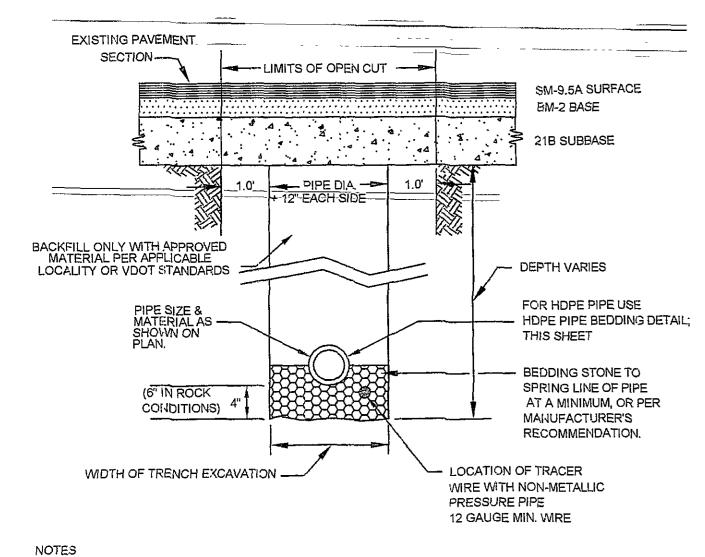
PACKAGE #4: 11/15/05

PACKAGE #3: 11/18/05

PACKAGE #2: 19/16/05

PACKAGE #1: 6/30/05

NO. DATE REVISION



A IN ROANOKE CITY, THE CONTRACTOR SHALL REPLACE THE OPEN CUT WITH A MINIMUM TOP COURSE OF 2" VDOT SM-9 5A, BASE COURSE OF 3" VDOT BM-2, AND SUBBASE OF 8" VDOT 21B, OR AS REQUIRED BY VDOT. IN ROANOKE CITY, CONTRACTOR SHALL MATCH EXISTING PAVEMENT LAYERS OR AS REQUIRED BY CITY STANDARDS

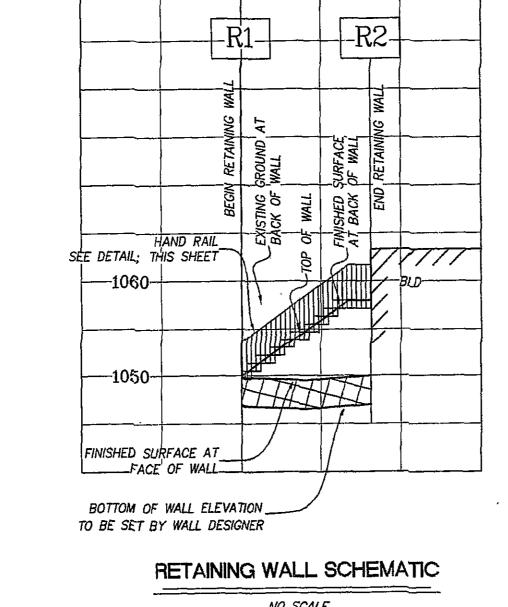
B ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE AS SPECIFIED BY VDOT OR

APPLICABLE LOCALITY C. PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM VDOT AND/OR APPLICABLE LOCALITY. D. ALL WATER LINES BENEATH PAVEMENT SHALL BE DUCTILE IRON UNLESS INSTALLED IN CASING PIF

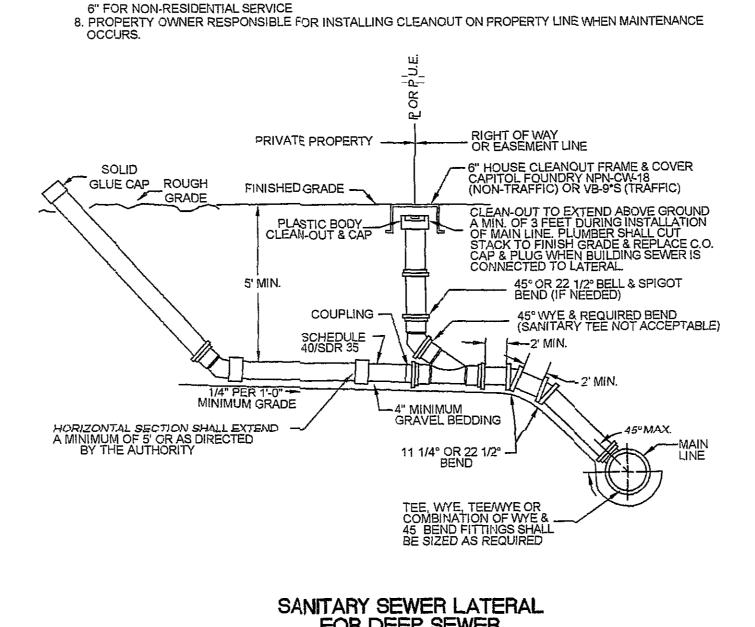
OR BY DIRECTIONAL BORING. E. IN AREAS SUBJECTED TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 6" LIFTS AND SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY AS DETERMINED BY

F. ALL SEWER LINE PIPE SHALL BE BEDDED IN COMPACTED GRANULAR MATERIAL. BEDDING REQUIREMENTS FOR DUCTILE WATER LINE ARE DEPENDENT ON MANUFACTUER'S BEDDING CRITERIA.









3 ALL PIPE SHALL BE OF SAME SIZE. 4. NO BENDS ARE ALLOWED IN THE LATERAL-FROM THE MAIN TO THE CLEAN-OUT STACK WYE

(EXCEPT AS NOTED.)
5 ALL MAIN LINE TAPS ON ACTIVE MAINS WILL BE PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY

GENERAL NOTES

7. MINIMUM LATERAL SIZE: 4" FOR RESIDENTIAL SERVICE

1 TRAFFIC BEARING BOX REQUIRED IN TRAFFIC AREA.

---2-ALL PIPE AND FITTINGS SHALL BE OF SIMILAR MATERIAL

6. PIPING BEHIND CLEANOUT TO BE INSTALLED PER BOCA CODE.

SANITARY SEWER LATERAL FOR DEEP SEWER NO SCALE

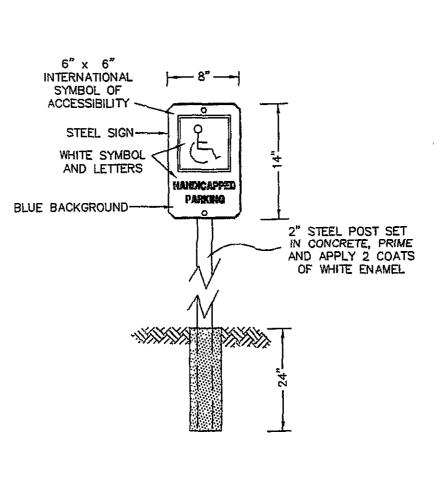
VDOT STD. AGGREGATE

SIZE No. 25 DR 26

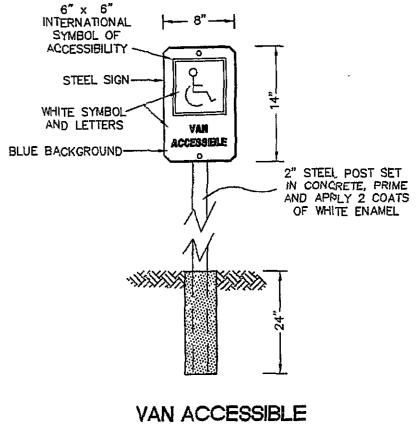
18" (d > 36")

HDPE PIPE BEDDING

NO SCALE

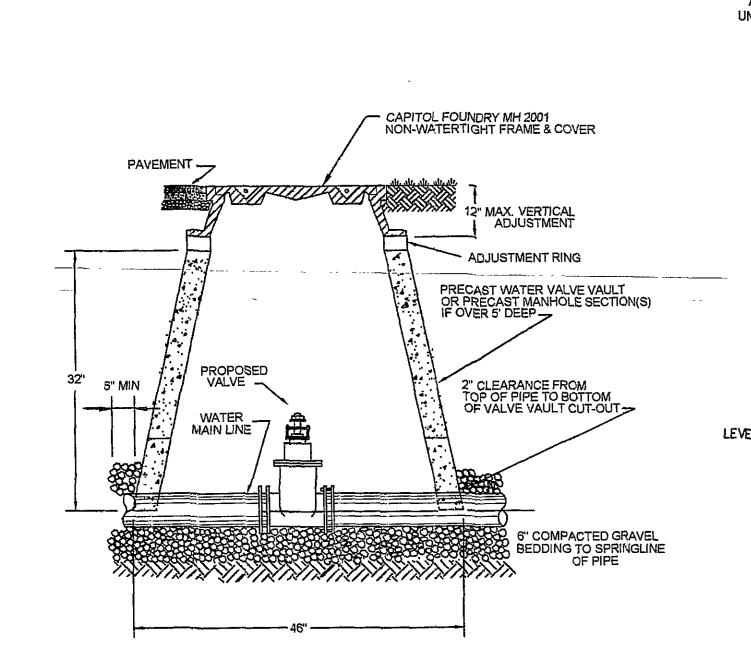


HANDICAP PARKING SIGN (S1) NO SCALE



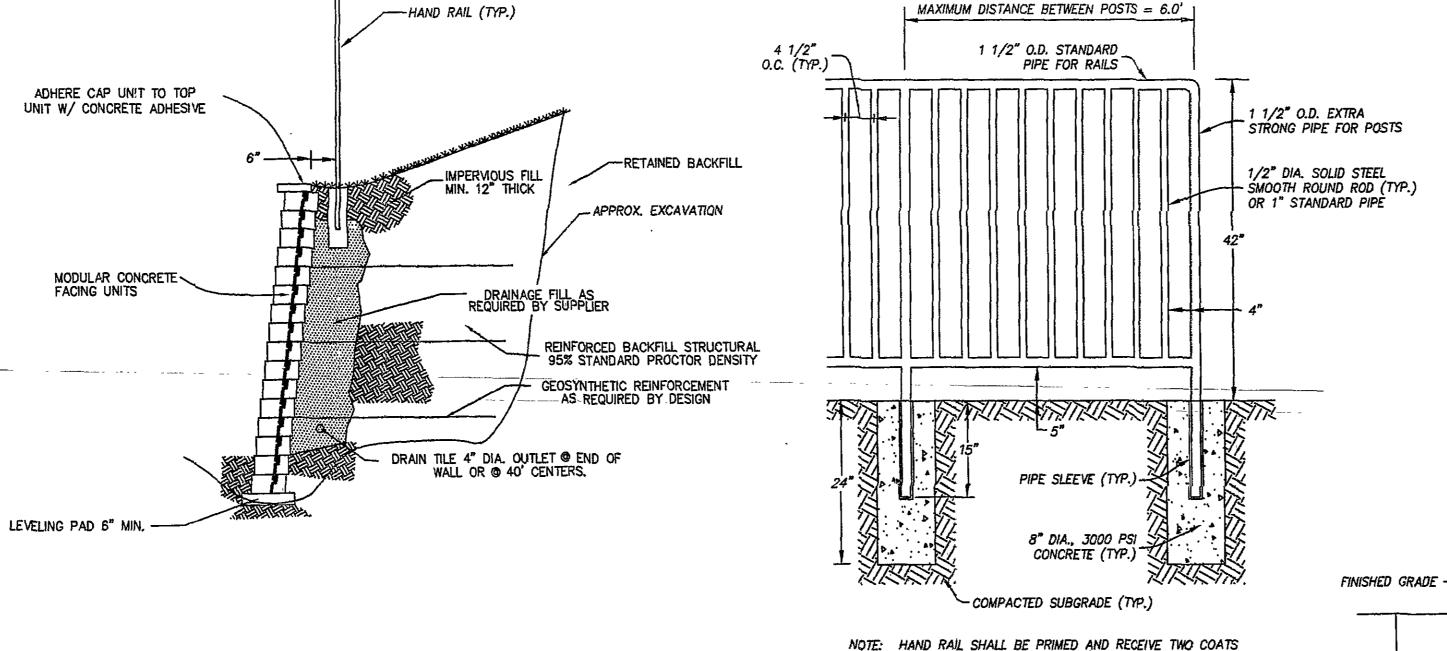
HANDICAP PARKING SIGN (S2)

NO SCALE



WATER LINE VALVE INSTALLATION NO SCALE

- - ----

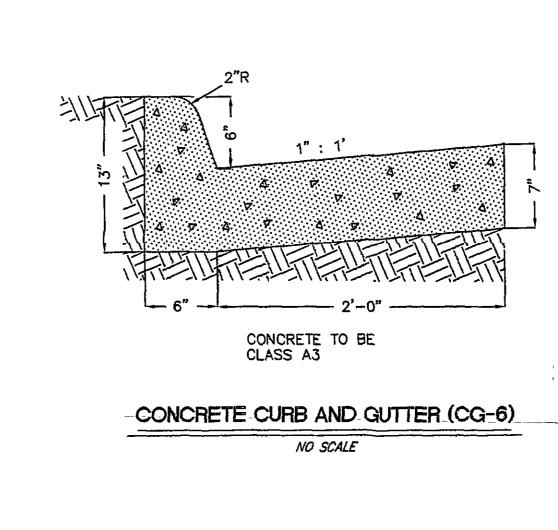


RETAINING WALL WITH HAND RAIL NO SCALE

OF ENAMEL PAINT (COLOR: GRAY).

RETAINING WALL NOTES:

1.) RETAINING WALL DESIGNER SHALL PROVIDE, TO THE OWNER, DESIGN DRAWINGS OF THE RETAINING WALLS. SUCH DRAWINGS SHALL INCLUDE TYPE AND STYLE. DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER. WALL DETAILS AND PROFILES SHOWN IN THSE PLANS ARE FOR SCHEMATIC DETAIL ONLY. 2.) PRIOR TO CONSTRUCTION WALL SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO ROANOKE CITY FOR REVIEW. DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED



NOTE: THIS DETAIL IS FOR HOPE PIPE

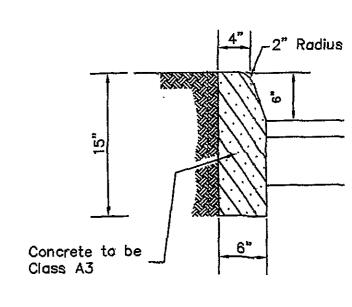
NO PROJECTION OF PIPE ABOVE THE

EXISTING GROUND LINE. FOR OTHER

BACKFILL SCENARIOS, SEE VDOT ROAD

AND BRIDGE STANDARDS DETAIL PB-1

WITH NORMAL EARTH FOUNDATIONS AND



CONCRETE CURB (CG-2) NO-SCALE



2" ASPHALT CONCRETE; TYPE SM-9.5A ₹ ~ 8" AGGREGATE BASE, VDOT #21A STONE COMPACTED EARTH

PAVEMENT DETAIL NO SCALE

PAVEMENT NOTES:

1. THE SIZE 21B AGGREGATE SHALL BE PRIMED WITH APPROXIMATELY 0.35 GAL/SY OF RC-250 ASPHALT AND COVERED WITH 16 TO 18 LBS/SY OF SIZE 8-P AGGREGATE BEFORE PLACING SM-9.5A

2. EXISTING PAVEMENT IS TO BE SAW CUT WHERE NEW PAVEMENT IS TO MATCH. SAW CUT IS TO BE MADE WITH A MECHANICAL SAW AND SIDES TO BE TACKED WITH BITUMINOUS MATERIAL, TYPE RC-250, OR EQUAL.

PERKINS EASTMAN ARCHITECTS I 1100 LIBERTY AVER Piriseurgh 15222 42 412 456 09 Fax 456 09

VIRGINIA LUTHERAN HOMES, INC. 117 SHERATON DRIVE SALEM, VA 24153 TEL 540-562-5443

Civil / Site: **LUMSDEN ASSOCIATES** 4664 BRAMBLETON AVENUE

ROANOKE, VA 24018 TEL. 540-774-4411

Structural: **DAY & KINDER CONSULTING ENGINEERS** 3239 ELECTRIC ROAD, BUILDING C ROANOKE, VA 24018 TEL. 540-774-5706

LAWRENCE PERRY & ASSOCIATES 30A W CHURCH STREET ROANOKE, VA 24025 TEL 540-342-1816

Landscape: **DAN CHITWOOD DESIGN** PO BOX 20912 ROANOKE, VA 24018 TEL. 540-989-9040

GENERAL CONTRACTOR: LIONBERGER CONSTRUCTION 5903 STARKEY ROAD PO BOX 20209 ROANOKE, VA 24018 TEL 540-989-5301

PROJECT TITLE:

BRANDON OAKS PHASE ONE-**ADDITION &** RENOVATIONS

3804 BRANDON AVE. ROANOKE, VA 24018 PROJECT No: 19412

> DRAWING TITLE: **DETAILS**

SCALE: NO SCALE

PACKAGE #6 PERMIT AND CONSTRUCTION SET 12/20/2005

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