



**NOTES:**

- FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS," LATEST EDITION; AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.
- BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100-600mm) AND 42"-48" (1050-1200mm) CORRUGATED POLYETHYLENE PIPE (CPEP); 6" (150mm) FOR 30"-36" (750-900mm) CPEP.
- HAUNCHING AND INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS:

NOMINAL Ø	MIN. RECOMMENDED TRENCH WIDTH, in (mm)
4 (100)	21 (530)
6 (150)	23 (580)
8 (200)	25 (630)
10 (250)	28 (710)
12 (300)	31 (790)
15 (375)	34 (860)
18 (450)	39 (990)
24 (600)	48 (1220)
30 (750)	66 (1680)
36 (900)	78 (1980)
42 (1050)	83 (2110)
48 (1200)	89 (2260)
60 (1500)	102 (2590)

- MINIMUM COVER:** MINIMUM RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE SUMMARIZED IN THE FOLLOWING TABLE. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TAKEN FROM THE TOP OF PIPE TO THE GROUND SURFACE.

SURFACE LIVE LOADING CONDITION	MINIMUM RECOMMENDED COVER, in (mm)
H25 (FLEXIBLE PAVEMENT)	12 (300)*
H25 (RIGID PAVEMENT)	12 (300)
E80 RAILWAY	24 (610)
HEAVY CONSTRUCTION	48 (1220)

\*TOP OF PIPE TO BOTTOM OF BITUMINOUS PAVEMENT SECTION

**NOTE TO THE ENGINEER:** WHEN THIS DETAIL IS TO BE INCORPORATED INTO CONTRACT DOCUMENTS, PLEASE REFERENCE SECTION X-2, "RECOMMENDATIONS FOR INCORPORATION INTO CONTRACT DOCUMENTS" OF ASTM SPECIFICATION D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS," SO THAT APPROPRIATE MODIFICATIONS CAN BE MADE TO ACCOMMODATE SITE SPECIFIC NEEDS.

**REVISIONS**

BY	DATE

DRAWN BY: K.M.J. 5-7-99  
APPROVED BY: P.X.C. 5-7-99  
DRAWING #: STD-101

**ADS** ADVANCED DRAINAGE SYSTEMS, INC.

**\*\*\* SEE SHEET 55 \*\*\* FOR STORM STRUCTURE LID DETAIL**

**PROJECT TITLE**  
IMPROVEMENT PLANS  
THE VILLAGES AT  
MONTRACHET (REVISED)

**DETAILS**  
PFS No. 14055MCH000R  
TASK 017 FIELD BOOK 1476

**PICKETT, RAY & SILVER INC.**  
CIVIL ENGINEERING, LAND SURVEYING,  
AND NATURAL RESOURCES SERVICES  
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22 Richmond Center Court  
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**ENGINEER'S AUTHENTICATION**  
THE RESPONSIBILITY FOR PROFESSIONAL ENGINEERING LIABILITY ON THIS PROJECT IS LIMITED TO THE SET OF PLANS AUTHENTICATED BY THE SEAL, SIGNATURE, AND DATE HEREON ATTACHED. RESPONSIBILITY IS DISCLAIMED FOR ALL OTHER ENGINEERING PLANS INVOLVED IN THIS PROJECT AND SPECIFICALLY EXCLUDES REVISIONS AFTER THIS DATE UNLESS REAUTHENTICATED.  
PICKETT, RAY & SILVER, INC. MO LICENSE #000336

**KARL A. SCHOENKE**  
STATE OF MISSOURI  
PROFESSIONAL ENGINEER  
NUMBER PE-2003015039  
09/28/16  
ELECTRONIC SEAL  
KARL A. SCHOENKE, P.E.  
PROFESSIONAL ENGINEER LICENSE 2003015039

**Developer / Owner Information**  
MONTRACHET DEVELOPMENT LLC  
218 Chesterfield Towne Centre  
Chesterfield, Missouri 63005  
Phone: 636-530-6900

**P+Z No. 15-1501**

**City No. 15-742-SP**

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**\* All other Storm or Sanitary Sewer Details will be by M.S.D. 2007 Standards and Specifications.**

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