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- Diagram illustrating the connection of a 5' TRACE SAFE to a GROUND BAR and a TRACER WIRE ACCESS BOX LID.
- GROUND BAR:** 5' length. A 1" diameter hole is shown. A 5' TRACE SAFE is connected to the ground bar via a LOCATING CLIP (TS19-IL-LC-C). The connection point is labeled (C).
- TRACER WIRE ACCESS BOX LID:** 3 1/8" diameter. A 1 1/2" diameter hole is shown. A 5' TRACE SAFE is connected to the lid via a LOCATING CLIP (TS19-IL-LC-C).
- GROUND WIRE:** Connected to the ground bar and the tracer wire access box lid. The connection to the ground bar is labeled "TO GROUND SOURCE".

TRACER WIRE FOR NON-METALLIC PRESSURE PIPE

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09/06/16

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- Diagram illustrating the bedding and backfill requirements for a trench excavation:
- FINISHED GRADE**: Indicated by a horizontal line at the top of the trench.
 - NORMAL SOIL CONDITIONS**: Indicated by a hatched pattern above the trench.
 - 3" MIN.**: Minimum depth of bedding above the pipe.
 - BACKFILL ONLY WITH APPROVED MATERIAL PER APPLICABLE LOCALITY OR VDOT STANDARDS**: Indicated by a hatched pattern on the sides of the trench.
 - PIPE SIZE & MATERIAL AS SHOWN ON PLAN**: Indicated by a circle representing the pipe.
 - FOR WATERLINES INSTALL BEDDING STONE TO SPRING LINE OF PIPE AT A MINIMUM, OR PER MANUFACTURER'S RECOMMENDATION**: Indicated by a stippled pattern below the bedding.
 - FOR SEWER LINES BEDDING SHALL BE MIN. 6" ABOVE PIPE**: Indicated by a stippled pattern below the bedding.
 - LOCATION OF TRACER WIRE WITH NON-METALLIC PRESSURE PIPE. TRACER WIRE NOT REQUIRED FOR TYPICAL GRAVITY SANITARY SEWER. SEE DETAIL G-4 FOR ADDITIONAL REQUIREMENTS**: Indicated by a dashed line below the bedding.
 - (4" MIN. - 6" IN ROCK CONDITIONS)**: Indicated by a hatched pattern below the bedding.
 - WIDTH OF TRENCH EXCAVATION PIPE DIA. + 6" EACH SIDE (MINIMUM)**: Indicated by a dimension line across the bottom of the trench.

BEDDING AND BACKFILL OUTSIDE OF PAVED AREAS

G-1

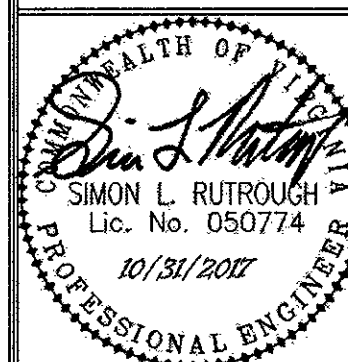
08/01/15

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- EXISTING PAVEMENT SECTION
- LIMITS OF OPEN CUT
- SURFACE MIX ASPHALT
- BASE MIX ASPHALT
- SUBBASE
- SEE BEDDING NOTE
- BACKFILL ONLY WITH APPROVED MATERIAL PER APPLICABLE LOCALITY OR VDOT STANDARDS
- PIPE SIZE & MATERIAL AS SHOWN ON PLAN
- SEE BEDDING NOTE BELOW
- (8" IN ROCK CONDITIONS)
- 4"
- WIDTH OF TRENCH EXCAVATION PIPE DIA. + 6" EACH SIDE (MINIMUM)
- NON-DETECTABLE WARNING TAPE, 3 TO 5 MILS IN THICKNESS, TO BE INSTALLED APPROX. 24" ABOVE PIPE AND AT A MINIMUM OF 6" BELOW GRADE (ALL PIPE)
- LOCATION OF TRACER WIRE WITH NON-METALLIC PRESSURE PIPE. TRACER WIRE NOT REQUIRED FOR TYPICAL GRAVITY SANITARY SEWER. SEE DETAIL G-4
- DEPTH VARIES
- BEDDING:** FOR WATERLINES, INSTALL BEDDING STONE TO SPRING LINE OF PIPE AT A MINIMUM, OR PER MANUFACTURER'S RECOMMENDATION. FOR SEWER LINES, BEDDING SHALL BE MINIMUM 6" ABOVE PIPE.

**BEDDING AND BACKFILL
UNDER PAVEMENT AND IN RIGHT-OF-WAY**

G-1

08/01/15



REVISIONS:

DESIGNED BY:	SLF
DRAWN BY:	SLF
CHECKED BY:	SLF

SHEET TITLE:
**C13 - UTILITY
DETAILS**

SCALE:

SHEET NO.

C13

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- PAVEMENT
- ADJUSTMENT RING
- GROUND BAR
SEE GENERAL DETAIL
- PROPOSED VALVE
- 32"
- 6" MIN (TYP.)
- GROUND ROD
SEE GENERAL DETAIL
- 46"
- CAPITOL FOUNDRY MH 2001
NON-WATERTIGHT FRAME & COVER
LABELED "WATER"
- 12" MAX. VERTICAL
ADJUSTMENT
- PRECAST WATER VALVE VAULT
OR PRECAST MANHOLE SECTION(S)
IF DEPTH EXCEEDS 5'
- TRACER & GROUND WIRES
SEE GENERAL DETAIL
- FILTER FABRIC
- 2" CLEARANCE FROM
TOP OF PIPE TO BOTTOM
OF VAULT CUT-OUT
- WATER MAIN
- 6" COMPACTED
VDOT 57

WATER LINE VALVE
& VAULT

W.

04/01/11

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- CAPITOL FOUNDRY MH 2001
 NON-WATERTIGHT FRAME & COVER
 LABELED "WATER"
- PAVEMENT
 ADJUSTMENT RING (WHEN REQUIRED)
 12" MAX. VERTICAL
 FINISHED GRADE
 12" - 18"
 2" THREADED NIPPLE WITH FINGER TIGHT CAP
 DRILL 1/4" Ø HOLE IN CAP
 2" GATE VALVE WITH 2" SQUARE HEAD
 INCORPORATION OF MUELLER 25008, FORD 10-4-GAL OR EQUIVALENT
 6" MIN.
 WATER MAIN
 6" MINIMUM VDOT 57
 GROUND ROD SEE GENERAL DETAIL
 TRACER & GROUND WIRES SEE GENERAL DETAIL
 PRECAST WATER VALVE VAULT OR PRECAST MANHOLE SECTION(S) WHEN DEPTH EXCEEDS 5'
 GROUND BAR SEE GENERAL DETAIL
 2" TAPPING SADDLE

IN-LINE BLOW-OFF ASSEMBLY

WF 4

CONCLUSIONS

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FIRE HYDRANT ASSEMBLY

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