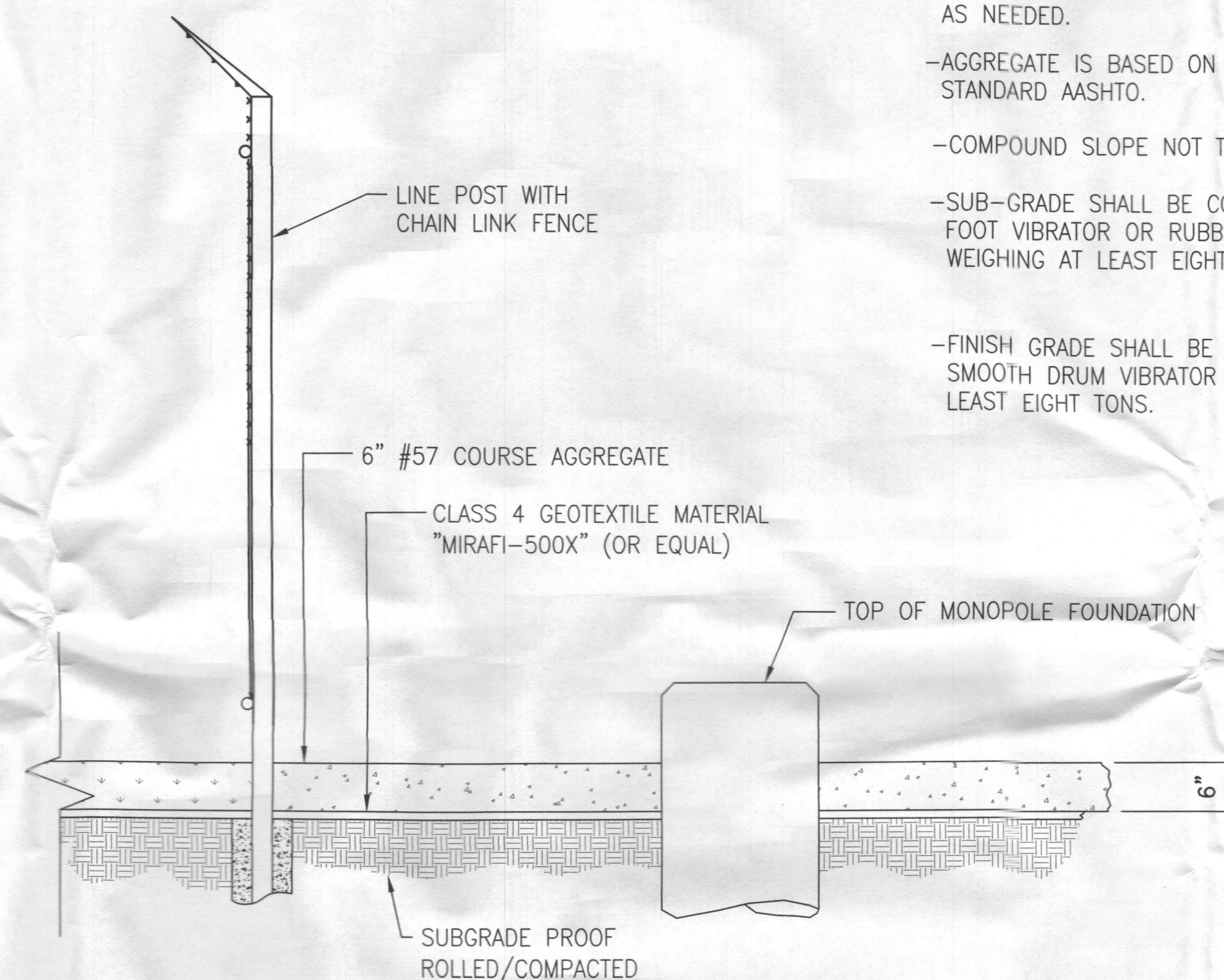


**1** ELECTRICAL / UTILITY COMMUNICATION TRENCH SECTIONS  
 --- NOT TO SCALE



**2** SITE COMPOUND SURFACING DETAIL  
 --- NOT TO SCALE

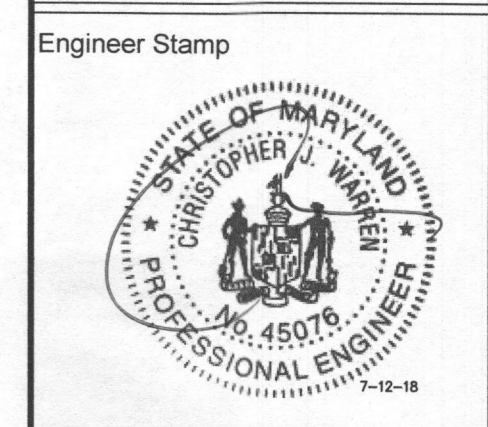
- NOTES:**
- USE OF SWALES AND/OR DRAINAGE DITCHES FOR PROPER WATER RUNOFF AS NEEDED.
  - AGGREGATE IS BASED ON STANDARD AASHTO.
  - COMPOUND SLOPE NOT TO EXCEED 5%
  - SUB-GRADE SHALL BE COMPACTED BY SHEEPS FOOT VIBRATOR OR RUBBER TIRED ROLLERS WEIGHING AT LEAST EIGHT TONS.
  - FINISH GRADE SHALL BE COMPACTED BY SMOOTH DRUM VIBRATOR ROLLERS WEIGHING AT LEAST EIGHT TONS.

No.	Submittal / Revision	App'd	Date
1	ISSUED FOR CONSTRUCTION	C/W	07/10/18
0	ISSUED FOR CONSTRUCTION	C/W	02/26/18

Drawn: PHR Date: 02/26/18  
 Designed: PHR Date: 02/26/18  
 Checked: C/W Date: 02/26/18

Project Number: 404-062

Project Title: US-MD-5045 TRIADELPHIA 3075 ROUTE 32 WEST FRIENDSHIP, MD 21794



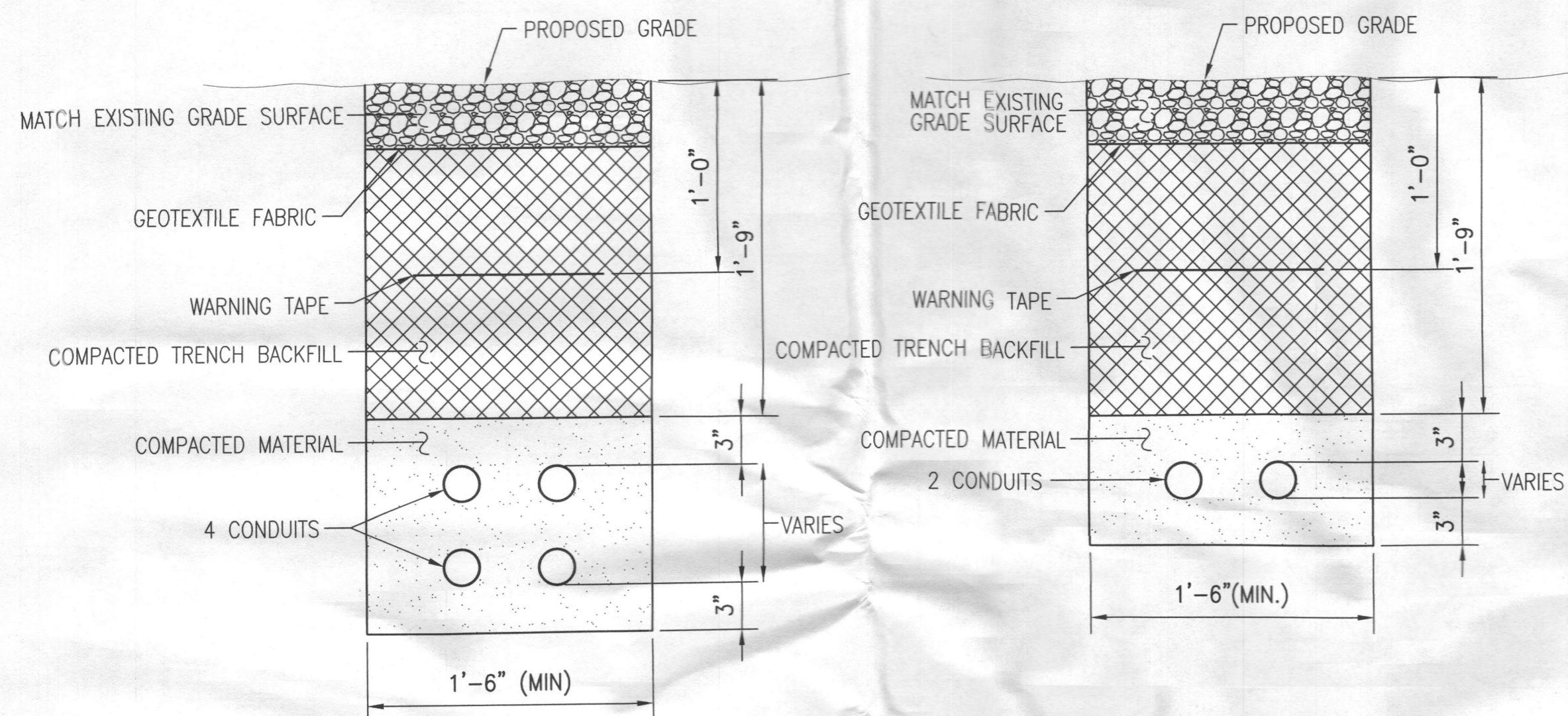
Drawing Title: DETAILS

Drawing Scale: AS NOTED  
 Date: 02/26/18

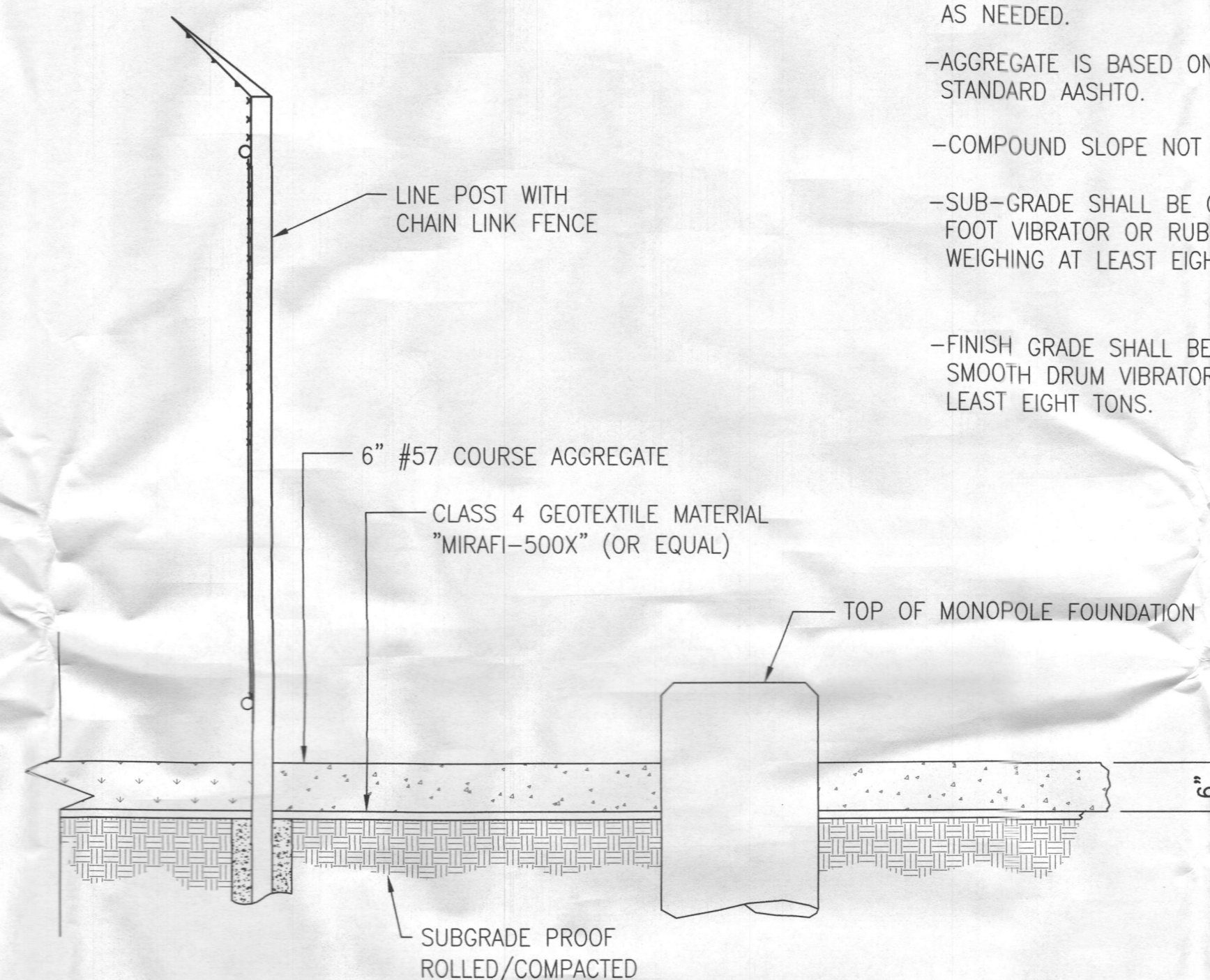
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**1** ELECTRICAL / UTILITY COMMUNICATION TRENCH SECTIONS  
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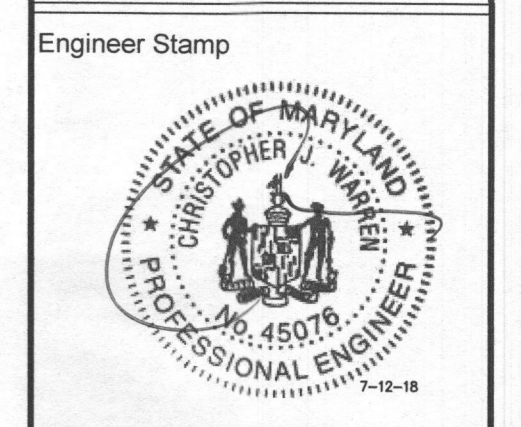
**2** SITE COMPOUND SURFACING DETAIL  
 --- NOT TO SCALE

**NOTES:**  
 -USE OF SWALES AND/OR DRAINAGE DITCHES FOR PROPER WATER RUNOFF AS NEEDED.  
 -AGGREGATE IS BASED ON STANDARD AASHTO.  
 -COMPOUND SLOPE NOT TO EXCEED 5%.  
 -SUB-GRADE SHALL BE COMPACTED BY SHEEPS FOOT VIBRATOR OR RUBBER TIRE ROLLERS WEIGHING AT LEAST EIGHT TONS.  
 -FINISH GRADE SHALL BE COMPACTED BY SMOOTH DRUM VIBRATOR ROLLERS WEIGHING AT LEAST EIGHT TONS.

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0	ISSUED FOR CONSTRUCTION	C/W	02/26/18

Drawn: PHR Date: 02/26/18  
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Project Number: 404-062  
 Project Title: US-MD-5045 TRIADELPHIA  
 3075 ROUTE 32 WEST FRIENDSHIP, MD 21794

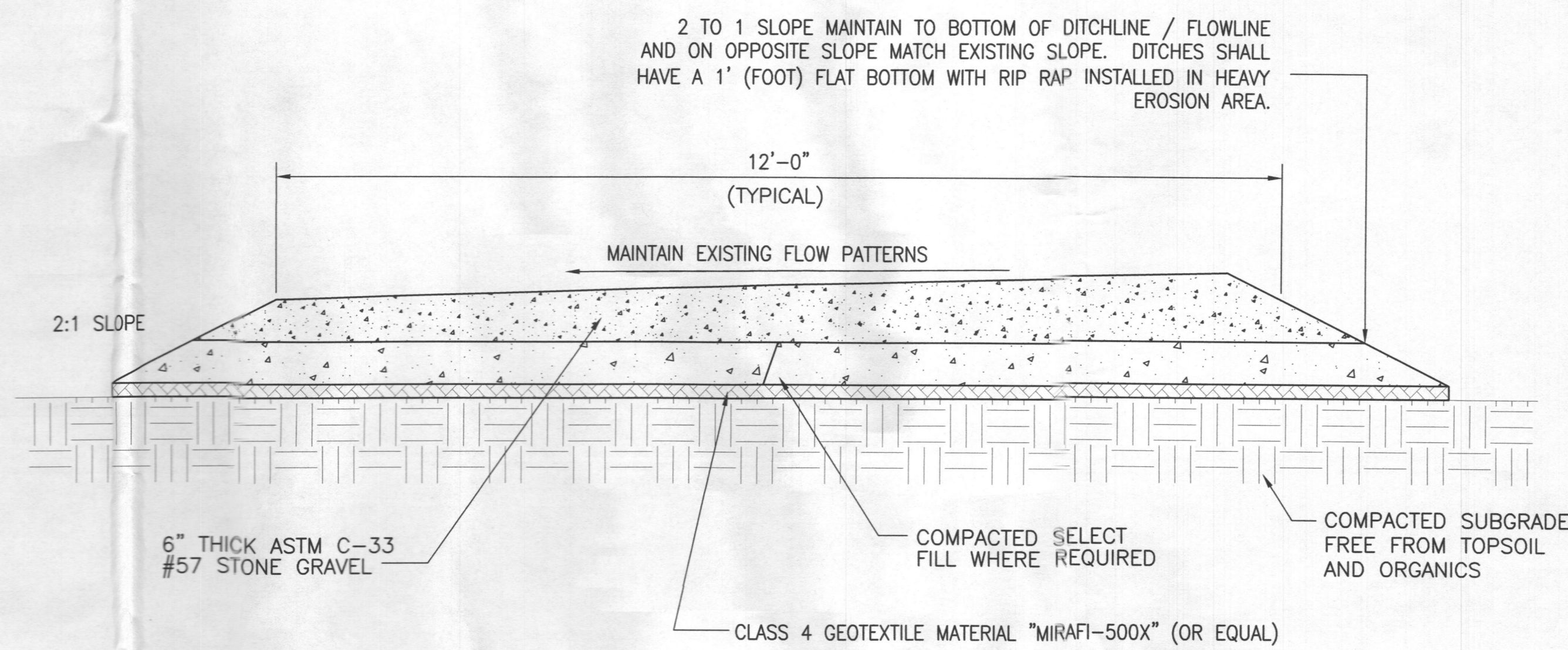


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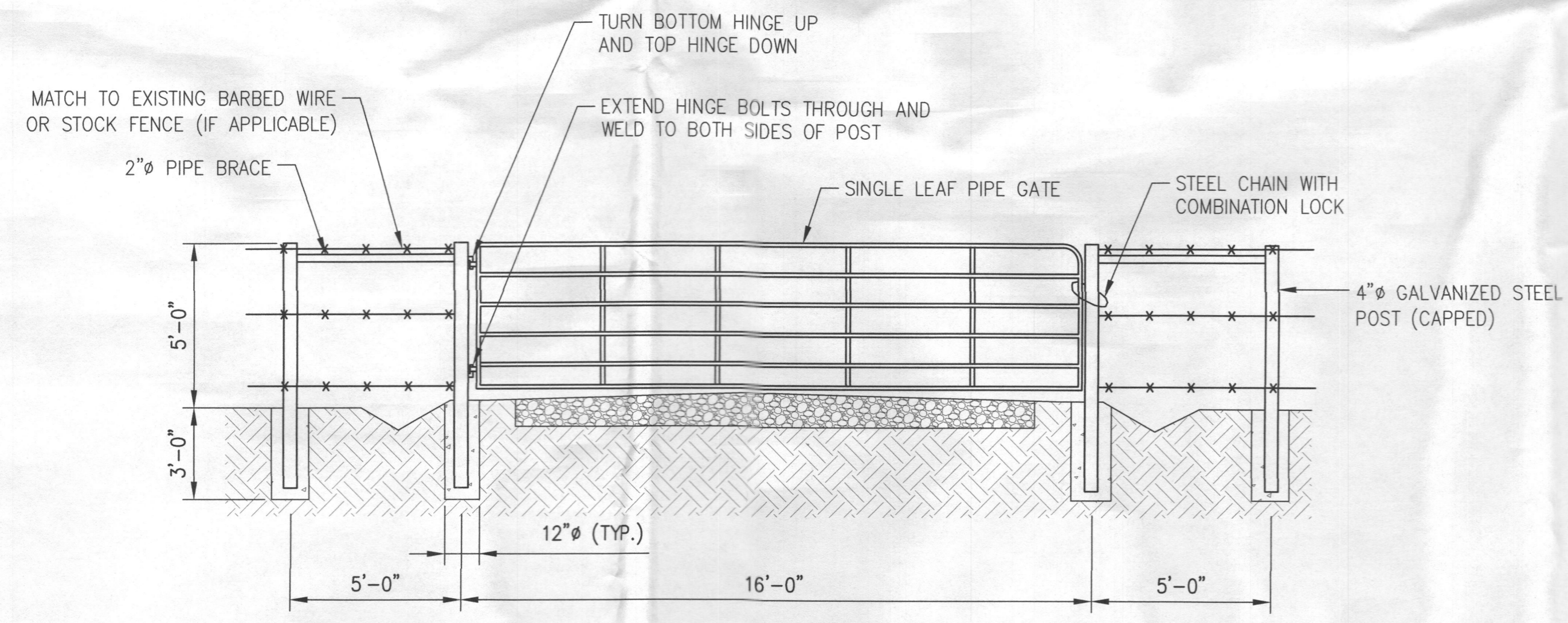
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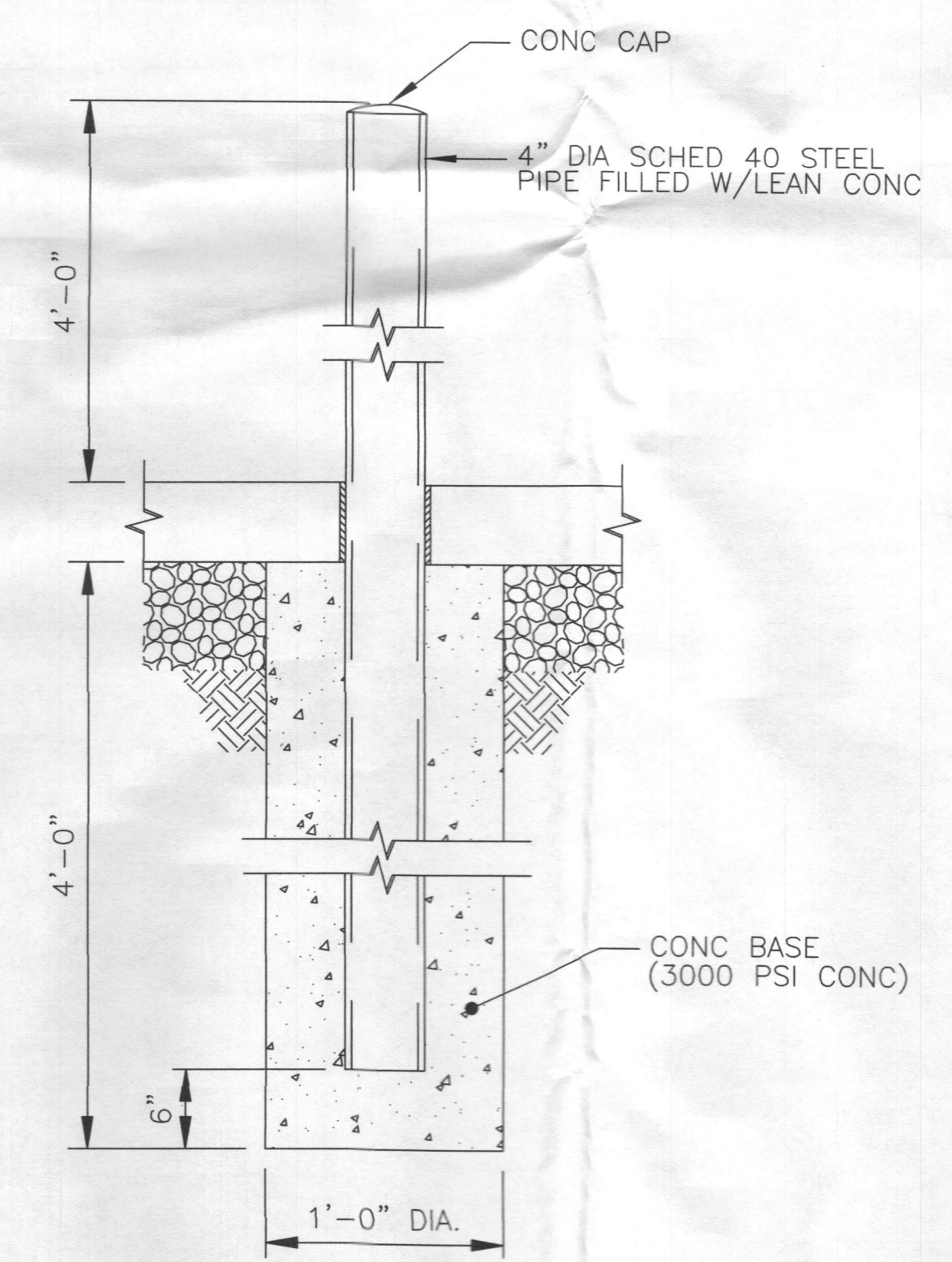


1 DRIVEWAY SECTION - CROSS SLOPE  
-- NOT TO SCALE

NOTES:  
-USE OF SWALES AND/OR DRAINAGE DITCHES FOR PROPER WATER RUNOFF AS NEEDED.  
-AGGREGATE IS BASED ON STANDARD AASHTO.  
-IN CURVES, ACCESS SHOULD BE SLOPED TO INSIDE OF TURN / CURVE  
-IF CULVERT IS PROPOSED, IT SHALL BE AT A MINIMUM OF 4' LONGER THEN ACCESS ROAD WIDTH ON EACH SIDE FOR PROPER SHOULDERING.  
-ALL CROSSDRAINS SHALL BE INSTALLED ON A 45° ANGLE WITH THE FALL OF THE GRADE.



2 PIPE GATE  
-- NOT TO SCALE

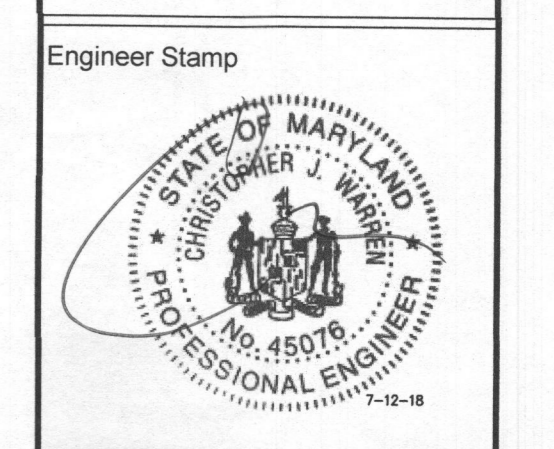


3 BOLLARD DETAIL  
-- NOT TO SCALE

1	ISSUED FOR CONSTRUCTION	CJW	07/10/18
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Checked:	CJW	Date:	02/26/18

Project Number  
404-062

Project Title  
US-MD-5045  
TRIADELPHIA  
3075 ROUTE 32  
WEST FRIENDSHIP, MD 21794



Drawing Title  
DETAILS

Drawing Scale:  
AS NOTED

Date:  
02/26/18

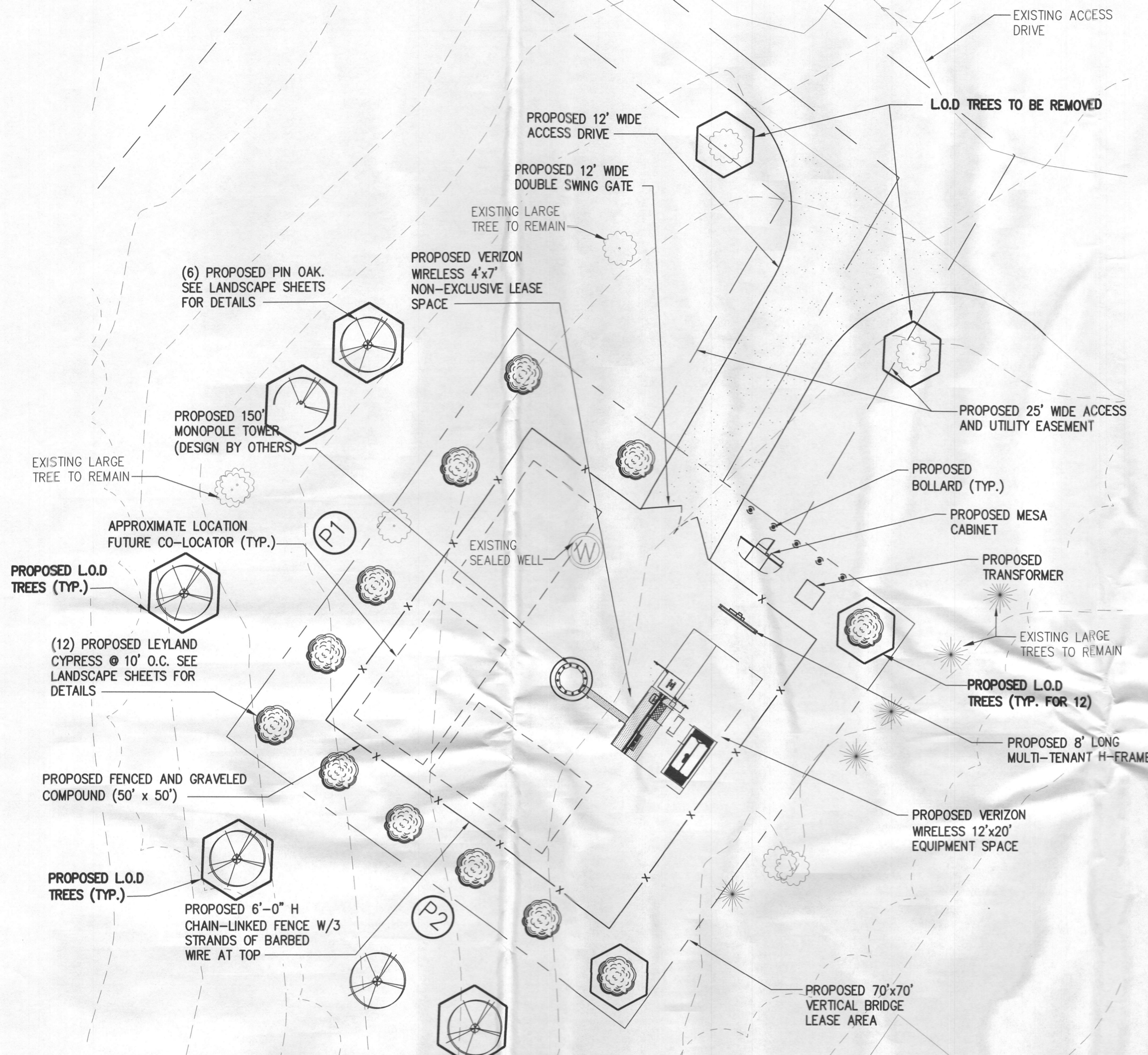
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Drawing Number  
C9

SHEET 12 OF 19



PLANTING LIST OF MATERIALS				
QTY.	COMMON NAME	BOTANICAL NAME	SPACING	PLANTING SIZE
12	LEYLAND CYPRESS	Cupressocyparis x leylandii	10'-0" O.C.	6' TO 8' HIGH
6	PIN OAK	Quercus palustris	20'-25' O.C.	2 1/2" TO 3" CAL.



- LANDSCAPE PLAN GENERAL NOTES:**
1. QUANTITIES OF TREES, EVERGREENS AND SHRUBS, WHEN NOTED ON THE PLAN LIST, ARE BASED UPON THE GRAPHIC SYMBOLS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE AND INSTALL THIS PLANT MATERIAL BASED UPON GRAPHIC SYMBOLS QUANTITIES.
  2. TREES ARE NOT PERMITTED WITHIN TEN (10) FEET OF PUBLIC UTILITIES.
  3. (4) PIN OAKS REQUIRED TO MITIGATE FOR REMOVAL OF 2 SPECIMEN TREES BY DRIVEWAY.

02/02/18

**FOREST CONSERVATION WORKSHEET**  
VERSION 1.0  
(Enter in Yellow Cells)

NET TRACT AREA:

A. Total tract area	=	23.66
B. Area within 100 year floodplain	=	0.00
C. Area to remain in agricultural production	=	23.55
D. Net tract area	=	0.11 (*)

LAND USE CATEGORY: (from table 3.2.1, page 40, Manual)

Input the number "1" under the appropriate land use zoning, and limit to only one entry.

ARA	MDR	IDA	HDR	MPD	CIA
1	0	0	0	0	0

E. Afforestation Threshold..... 20% x D = 0.02  
F. Conservation Threshold..... 50% x D = 0.05

EXISTING FOREST COVER:

G. Existing forest cover (excluding floodplain)	=	0.00
H. Area of forest above afforestation threshold	=	0.00
I. Area of forest above conservation threshold	=	0.00

BREAK EVEN POINT:

J. Forest retention above threshold with no mitigation	=	0.00
K. Clearing permitted without mitigation	=	0.00

PROPOSED FOREST CLEARING:

L. Total area of forest to be cleared	=	0.00
M. Total area of forest to be retained	=	0.00

PLANTING REQUIREMENTS:

N. Reforestation for clearing above conservation threshold	=	0.00
P. Reforestation for clearing below conservation threshold	=	0.00
O. Credit for retention above conservation threshold	=	0.00
R. Total reforestation required	=	0.00
S. Total afforestation required	=	0.02
T. Total reforestation and afforestation required	=	0.02

- NOTE:** (\*) NTA = L.O.D.
1. THE FOREST CONSERVATION OBLIGATION FOR THIS PROJECT IS 0.02 ACRE OF AFFORESTATION. THIS OBLIGATION IS BEING MET BY THE PAYMENT OF A FEE-IN-LIEU IN THE AMOUNT OF \$831.25 TO THE HOWARD COUNTY FOREST CONSERVATION FUND.
  2. BASED ON THE DEFINITION OF FOREST, THERE ARE NO FOREST AREAS WITHIN 50 FEET OF THE LOD ON THIS SITE. THIS AREA IS MOSTLY GRASS YARD AREA FROM THE FORMER HOUSE, WITH SCATTERED INDIVIDUAL TREES AND SOME THICKET VEGETATION.
  3. LANDSCAPE SURETY IN THE AMOUNT OF \$3,600.00 WILL BE POSTED WITH THE EXEMPT GRADING PERMIT.

**2 FOREST CONSERVATION WORKSHEET**  
NOT TO SCALE

**SCHEDULE A**  
**PERIMETER LANDSCAPE EDGE**

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
<b>Landscape Type</b>	D	D
Linear Feet of Roadway Frontage/Perimeter	50'	50'
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	-	-
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	-	-
<b>Number of Plants Required</b>		
Shade Trees	1	1
Evergreen Trees	0	0
Shrubs	0	0
<b>Number of Plants Provided</b>		
Shade Trees	1	1
Evergreen Trees	0	0
Other Trees (2:1 substitution)	0	0
Shrubs (10:1 substitution)	0	0
(Describe plant substitution credits below if needed)		

Comments Type "D" buffer required by Hearing Examiner as condition of approval of zoning case BA-17-014C.

**3 LANDSCAPE SCHEDULE**  
NOT TO SCALE

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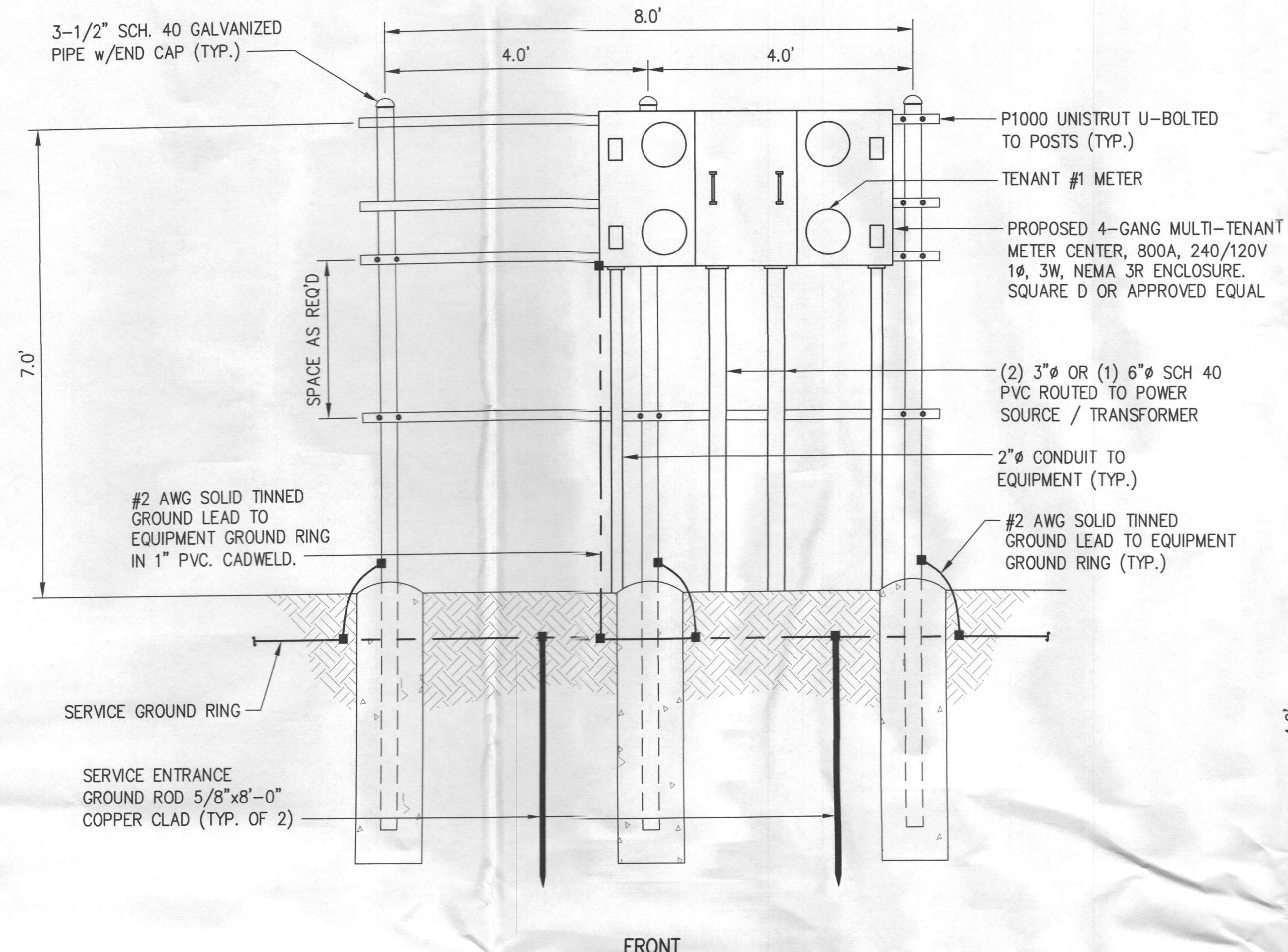
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FROM ZERO TO INFINIGY  
the solutions are endless

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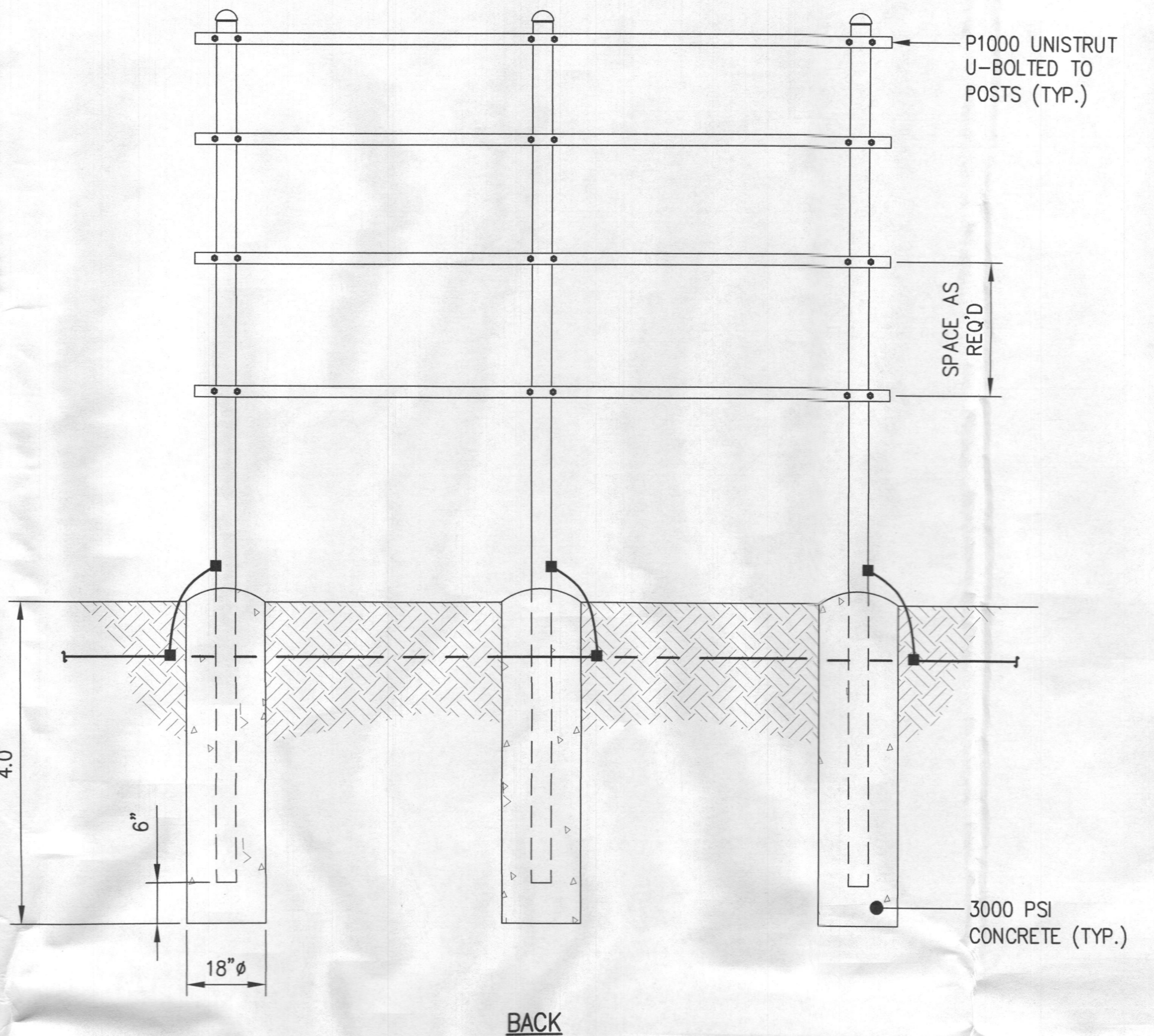
1 ISSUED FOR CONSTRUCTION C/W 07/10/18 0 ISSUED FOR CONSTRUCTION C/W 02/26/18 No. Submittal / Revision App'd Date	Drawn: PHR Date: 02/26/18 Designed: PHR Date: 02/26/18 Checked: C/W Date: 02/26/18
Project Number 404-062	
Project Title	
<b>US-MD-5045</b> <b>TRIADELPHIA</b> 3075 ROUTE 32 WEST FRIENDSHIP, MD 21794	
Engineer Stamp	
Drawing Title	
<b>LANDSCAPE PLAN &amp; FOREST CONSERVATION PLAN</b>	
Drawing Scale: AS NOTED	<b>CD</b>
Date: 02/26/18	
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<b>L1</b>	
SHEET 13 OF 19	





FRONT

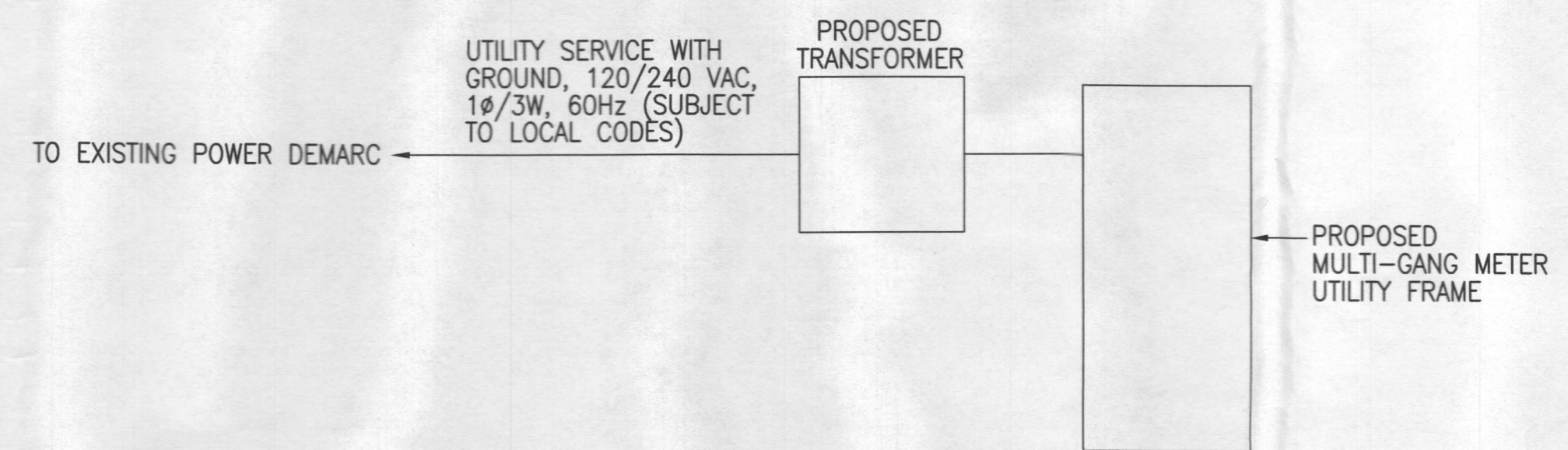
1 POWER/TELCO H-FRAME  
-- NOT TO SCALE



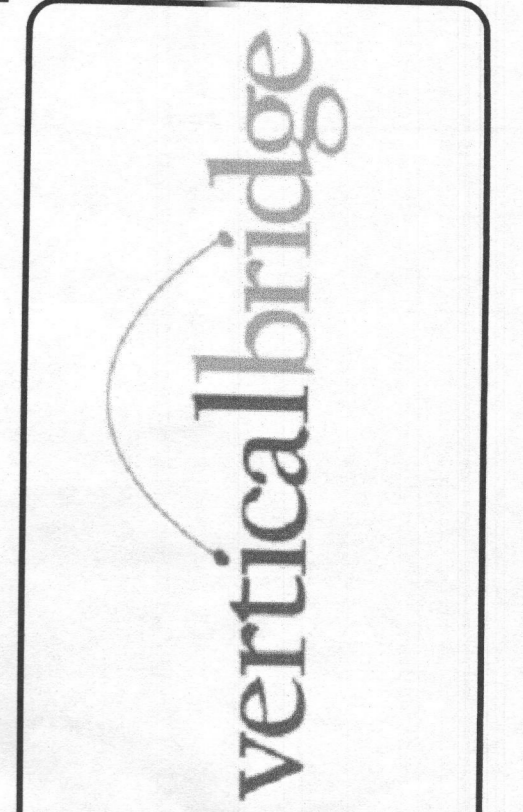
BACK

**ELECTRIC SERVICE NOTES:**

1. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (LATEST REVISION). THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATION WHICH WOULD VOID THE U.L. LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
2. COORDINATE ELECTRIC SERVICE WITH LOCAL POWER UTILITY COMPANY. COORDINATE WITH UTILITY FOR METER TYPE AND CONNECTION.
3. ALL CONDUIT SHALL BE SEALED WATERTIGHT UNTIL FINAL TERMINATIONS ARE MADE.
4. PROVIDE PULL CORD IN ALL CONDUITS. SECURE AT EACH END.
5. ADJUST DEPTH OF CONDUITS TO PASS ABOVE GROUNDING SYSTEM.
6. PROVIDE 18 INCH (MIN.) RADIUS ELBOWS FOR ALL BENDS.
7. PROVIDE PHENOLIC ENGRAVED NAMEPLATES AT THE SERVICE DISCONNECT LABELED: "SERVICE DISCONNECT" & "NOTE ENGINE GENERATOR NEUTRAL IS ALSO BONDED TO GROUND AT THE SERVICE DISCONNECT." PROVIDE ADDITIONAL NAMEPLATES NOTING TYPE AND LOCATION OF STANDBY POWER SOURCE.



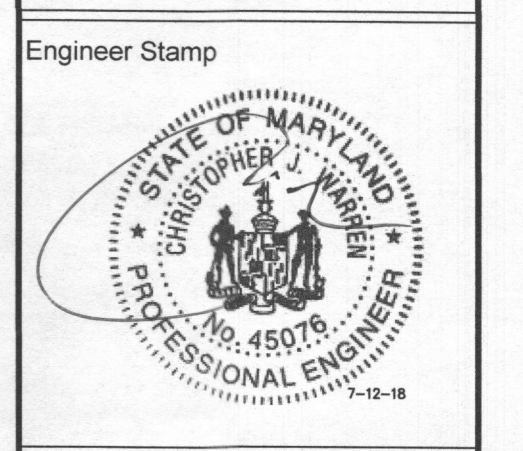
2 ELECTRICAL ONE LINE DIAGRAM  
-- NOT TO SCALE



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404-062

Project Title  
**US-MD-5045**  
**TRIADELPHIA**  
3075 ROUTE 32  
WEST FRIENDSHIP, MD 21794



Drawing Title  
**ELECTRICAL SERVICE DETAILS**

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02/26/18

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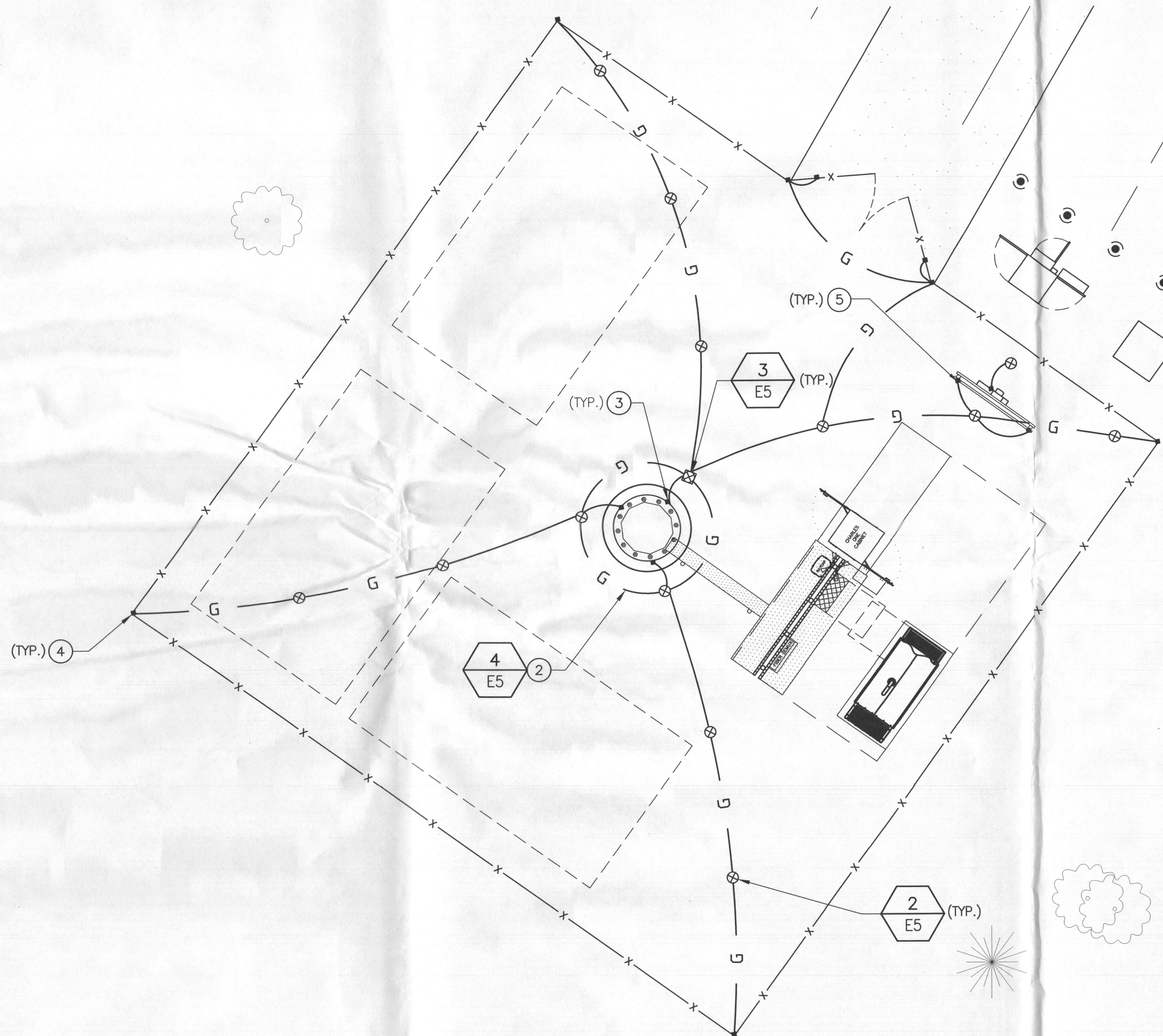
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- | KEY | DESCRIPTION   |
|-----|---|
| ①   | SYSTEM GROUND RESISTANCE SHALL NOT EXCEED 10 OHMS. A THREE POINT SYSTEM RESISTANCE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH VERTICAL BRIDGE SPECIFICATIONS. <ul style="list-style-type: none"> <li>A. PERFORM THREE TESTS AT EACH SITE.</li> <li>B. CONTRACTOR SHALL PROVIDE A WRITTEN REPORT CONSISTING OF THE FOLLOWING: SITE NAME, ADDRESS AND IDENTIFICATION NUMBER, DESCRIPTION OF SITE SOIL AND MOISTURE CONDITION, DESCRIPTION OF WEATHER, MODEL NUMBER OF TESTING EQUIPMENT, DATE OF LAST CALIBRATION, SITE SKETCH SHOWING LOCATION OF TEST PROBES AND ALL FIELD DATA COLLECTED (READINGS, RANGE, TEST, MILLIAMPS, ETC.)</li> <li>C. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES PERFORMING SYSTEM RESISTANCE TESTS OR IF MEASUREMENTS ARE ABOVE 10 OHMS. THE CONSTRUCTION MANAGER SHALL PROVIDE INSTRUCTION TO THE CONTRACTOR TO INSTALL ADDITIONAL GROUNDING MEASURES TO MEET THE 10 OHM REQUIREMENT.</li> </ul> |
| ②   | PROPOSED TOWER/COMPOUND/CARRIER GROUND RING BURIED TO A DEPTH OF 30" OR 6" BELOW THE FROST LINE, WHICHEVER IS GREATER.  |
| ③   | BOND PROPOSED TOWER TO TOWER GROUND RING (TYP. OF 3 PLACES TOTAL).  |
| ④   | BOND GATE AND FENCE CORNER POSTS TO PROPOSED GROUND RING.   |
| ⑤   | BOND PROPOSED H-FRAME TO GROUND RING.   |

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING THE SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED.



**EXTERIOR GROUNDING NOTES:**

1. GROUNDING SHALL CONFORM WITH VERTICAL BRIDGE STANDARDS AND PER FEDERAL, STATE AND LOCAL CODES. IN THE EVENT OF A CONFLICT, MEET THE MOST STRINGENT REQUIREMENT.
2. GROUND RODS PAST METER SHALL BE COPPER CLAD STEEL 5/8 INCH DIAMETER X 10 FEET IN LENGTH (MIN.)
3. ALL GROUND CONDUCTORS PAST METER SHALL BE #2 AWG SOLID BARE TINNED COPPER. MINIMUM BEND RADIUS FOR CONDUCTOR SHALL BE 8 INCHES.
4. GROUND RODS SHALL BE SPACED NOT MORE THAN 20'-0" AND NOT LESS THAN 10'-0" APART EXCEPT FOR THE TOWER GROUND RING WHICH SHALL COMPLY WITH TIA/EIA 222 (REV G).
5. CONTRACTOR SHALL ADD ADDITIONAL RODS AND CONDUCTORS OR APPROVED GROUND ENHANCING MATERIAL TO ACHIEVE LESS THAN 10 OHMS RESISTANCE TO GROUND.
6. MAINTAIN 2'-0" (TOWER) AND 3'-0" (SHELTER) BETWEEN GROUND RINGS AND FOUNDATIONS.
7. ALL GROUNDING INSTALLATIONS SHALL BE INSPECTED AND APPROVED BY ANY JURISDICTION HAVING INSPECTION & APPROVAL AUTHORITY (IF REQUIRED) AND VERTICAL BRIDGE BEFORE PLACING ANY BACKFILL.
8. ALL GROUNDING SPLICES AND CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS (CADWELD OR EQUIVALENT). COAT ALL WELDS WITH A ZINC RICH PAINT.



CALLED NORTH

**1 GROUNDING PLAN**

SCALE: 2.5' 0 2.5' 5' 10'  
 ( IN FEET )  
 SCALE: 24"X 36" SHEET 1"= 5'  
 SCALE: 11"X 17" SHEET 1"= 10'

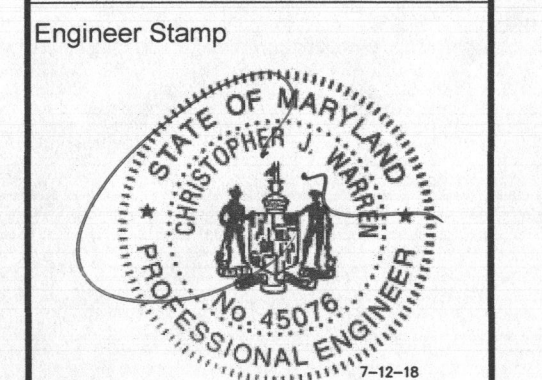
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**US-MD-5045**  
**TRIADELPHIA**  
 3075 ROUTE 32  
 WEST FRIENDSHIP, MD 21794



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**GROUNDING PLAN**

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**GENERAL GROUNDING NOTES:**

1. ALL GROUND CABLE IN CONCRETE OR THROUGH WALL SHALL BE IN 3/4" PVC CONDUIT. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTOR SLEEVES.
2. GROUND ALL EXPOSED METALLIC OBJECTS USING A TWO-HOLE NEMA DRILLED CONNECTOR SUCH AS THOMAS & BETTS #32207 OR APPROVED EQUAL.
3. THE CONTRACTOR SHALL NOTIFY THE VERTICAL BRIDGE REPRESENTATIVE WHEN THE GROUND RING IS INSTALLED SO THAT THE REPRESENTATIVE CAN INSPECT GROUND RING BEFORE IT IS CONCEALED.
4. ALL EXTERIOR GROUND CONDUCTORS INCLUDING GROUND RING SHALL BE #2 AWG SOLID BARE TINNED COPPER. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. THE RADIUS OF ANY BEND SHALL NOT BE LESS THAN 8" AND THE INCLUSIVE ANGLE OF ANY BEND SHALL NOT EXCEED 90°. GROUNDING CONDUCTORS SHALL BE ROUTED DOWNWARD TOWARD THE BURIED GROUND RING.
5. ALL BELOW GROUND EXTERNAL CONNECTIONS SHALL BE EXOTHERMIC ALLY WELDED. ALL EXOTHERMIC WELDS TO BURIED GROUND RING SHALL BE THE PARALLEL, EXCEPT FOR THE GROUND RODS WHICH ARE TEE-TYPE EXOTHERMIC WELDS. REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY EXOTHERMIC WELDING. USE SPRAY GALVANIZED SUCH AS HOLUB LECTROSOL #15-501.
6. WHERE MECHANICAL CONNECTORS (TWO-HOLE OR CLAMP) ARE USED, APPLY A LIBERAL PROTECTIVE COATING OF A CONDUCTIVE ANTI-OXIDE COMPOUND ON ALL CONNECTORS. PROVIDE LOCK WASHERS ON ALL MECHANICAL CONNECTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT. THOROUGHLY REMOVE ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND CONNECTORS, REPAINT TO MATCH EXISTING AFTER CONNECTION IS MADE TO MAINTAIN CORROSION RESISTANCE. ALL GROUND CONNECTIONS SHALL BE APPROVED FOR THE TYPES OF METALS BEING ATTACHED TO.
7. THE CONTRACTOR SHALL COORDINATE AS REQUIRED TO HAVE UTILITY COMPANY REPRESENTATIVE AT THE SITE TO DISCONNECT THE UTILITY NEUTRAL FROM GROUNDING SYSTEM DURING FINAL INSPECTION SO THAT REQUIRED TESTING ON THE GROUND SYSTEM CAN BE PERFORMED. THE CONTRACTOR SHALL PROVIDE NOTICE TO THE VERTICAL BRIDGE REPRESENTATIVE (TWO) DAYS PRIOR TO FINAL TESTING. IF THE CONTRACTOR FAILS TO MAKE UTILITY COMPANY REPRESENTATIVE AVAILABLE DURING THE FINAL TESTING, THE CONTRACTOR SHALL PAY THE COST FOR AN INDEPENDENT GROUNDING CONSULTANT TO PERFORM THE GROUND RESISTANCE TEST. GROUNDING CONSULTANT SHALL BE SELECTED BY THE VERTICAL BRIDGE REPRESENTATIVE. IF THE UTILITY COMPANY REPRESENTATIVE FAILS TO APPEAR DUE TO NO FAULT THE CONTRACTOR, NO PENALTY APPLY.
8. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
9. THE GROUND CONDUCTORS SHALL BE RUN STRAIGHT FOR MINIMUM INDUCTANCE AND VOLTAGE DROP. SINCE CABLE BENDS INCREASE INDUCTANCE, THE MINIMUM REQUIRED BENDING RADIUS IS 8 INCHES WHEN BENDS ARE UNAVOIDABLE. ALL METAL WORK WITHIN 10 FEET OF THE GROUND RING SHALL BE DIRECTLY BONDED TO THIS GROUND SYSTEM, WITHOUT USING SERIES OR DAISY CHAIN CONNECTION ARRANGEMENTS.
10. PAINT, ENAMEL, LACQUER AND OTHER ELECTRICALLY NON-CONDUCTIVE COATINGS SHALL BE REMOVED FROM THREADS AND SURFACE AREAS WHERE CONNECTIONS ARE MADE TO ENSURE GOOD ELECTRICAL CONTINUITY.
11. CONNECTIONS BETWEEN DISSIMILAR METALS SHALL NOT BE MADE UNLESS THE CONDUCTORS ARE SEPARATED BY A SUITABLE MATERIAL THAT IS A PART OF THE ATTACHMENT DEVICE LISTED AND APPROVED FOR USE WITH THE SPECIFIC DISSIMILAR METALS MAY BE USED FOR THE PURPOSE.
12. ALL BELOW GRADE GROUND SYSTEM CONDUCTORS SHALL BE A MINIMUM DEPTH OF 30" (OR 6" BELOW THE FROST LINE, WHICHEVER IS GREATER).
13. CONTRACTOR TO COORDINATE WITH TOWER CONTRACTOR TO PROVIDE, RUN AND TERMINATE POWER & CONTROL WIRES WITHIN CONDUITS FROM LIGHTING CONTROLLER TO ELECTRICAL AND CONTROL PANELS.
14. INTERMEDIATE COAX GROUNDING TO BE INSTALLED ON VERTICAL RUNS THAT EXCEED 200 FEET IN LENGTH. CONTRACTOR SHALL COORDINATE WITH VERTICAL CONSTRUCTION MANAGER ON LOCATION OF INTERMEDIATE GROUNDING LOCATION.

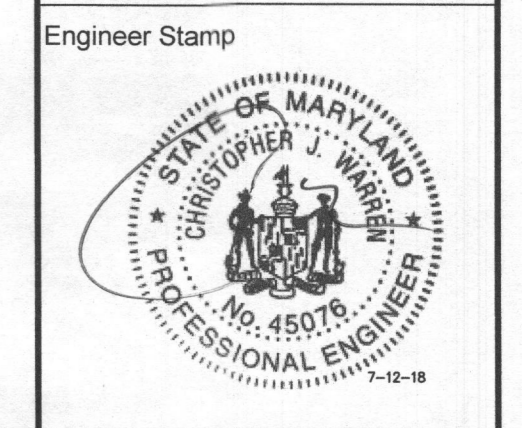
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the solutions are endless  
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Project Number 404-062  
Project Title  
**US-MD-5045**  
**TRIADELPHIA**  
3075 ROUTE 32  
WEST FRIENDSHIP, MD 21794

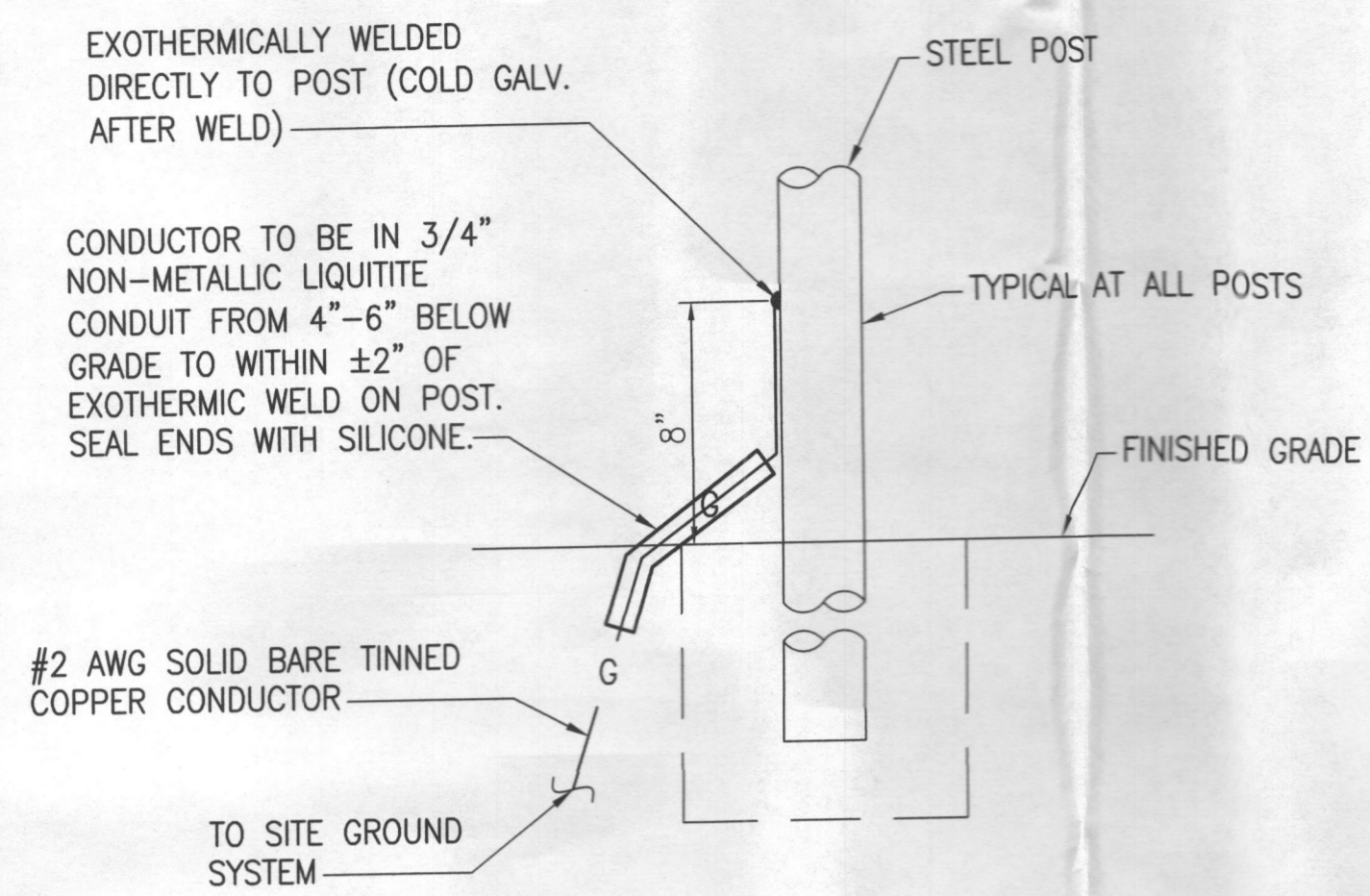


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**GROUNDING NOTES**

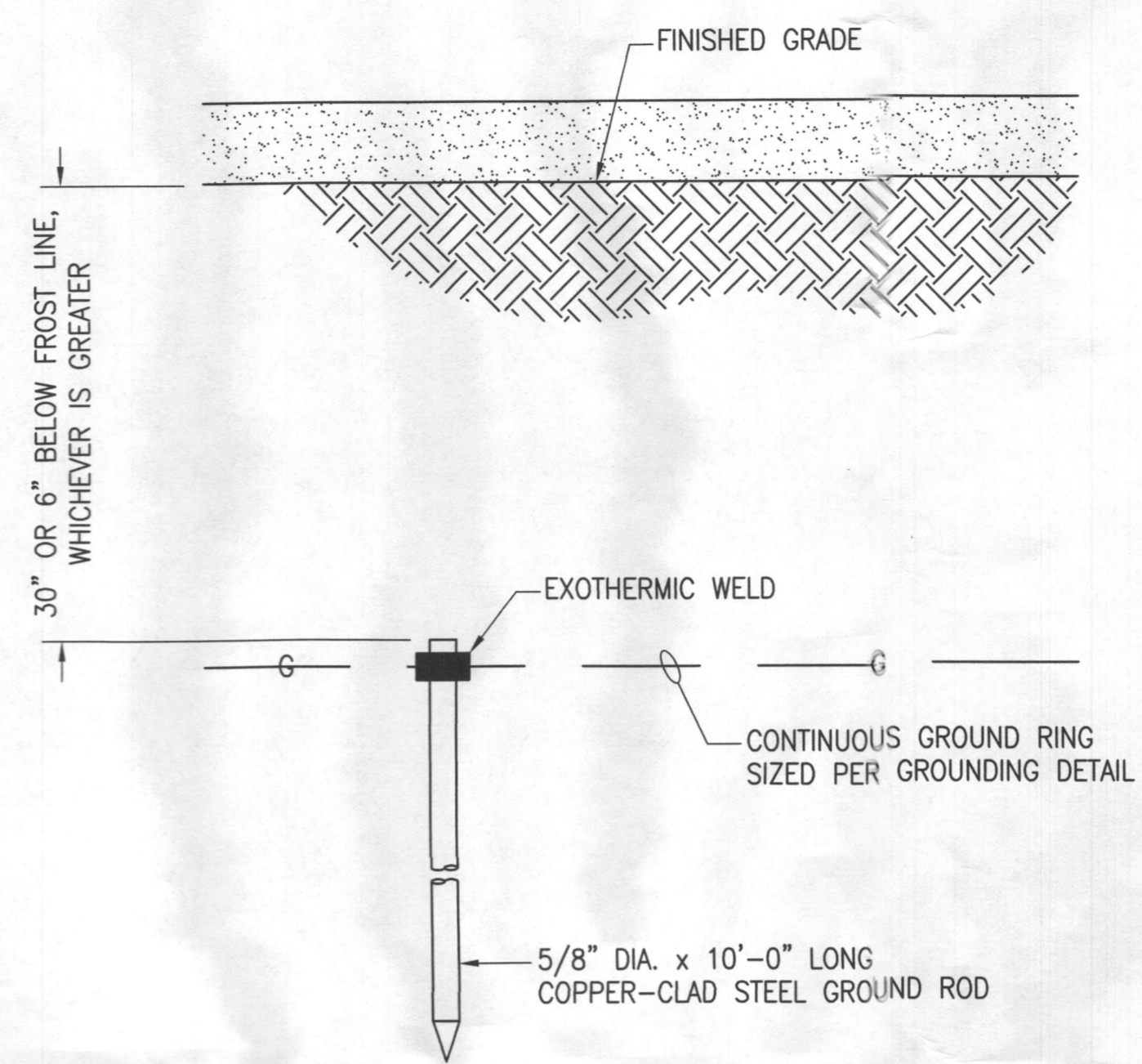
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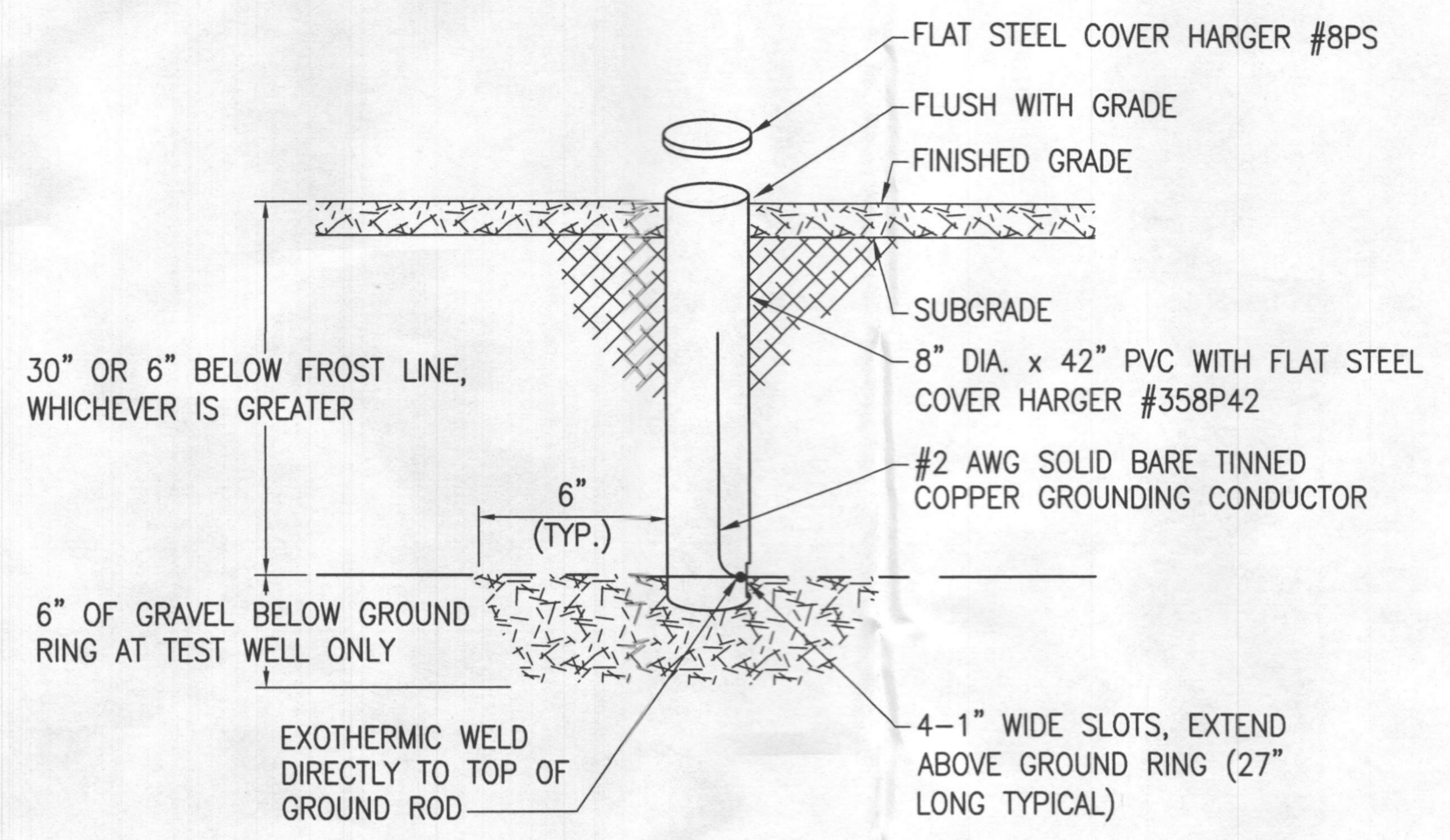
Drawing Number  
**E4**



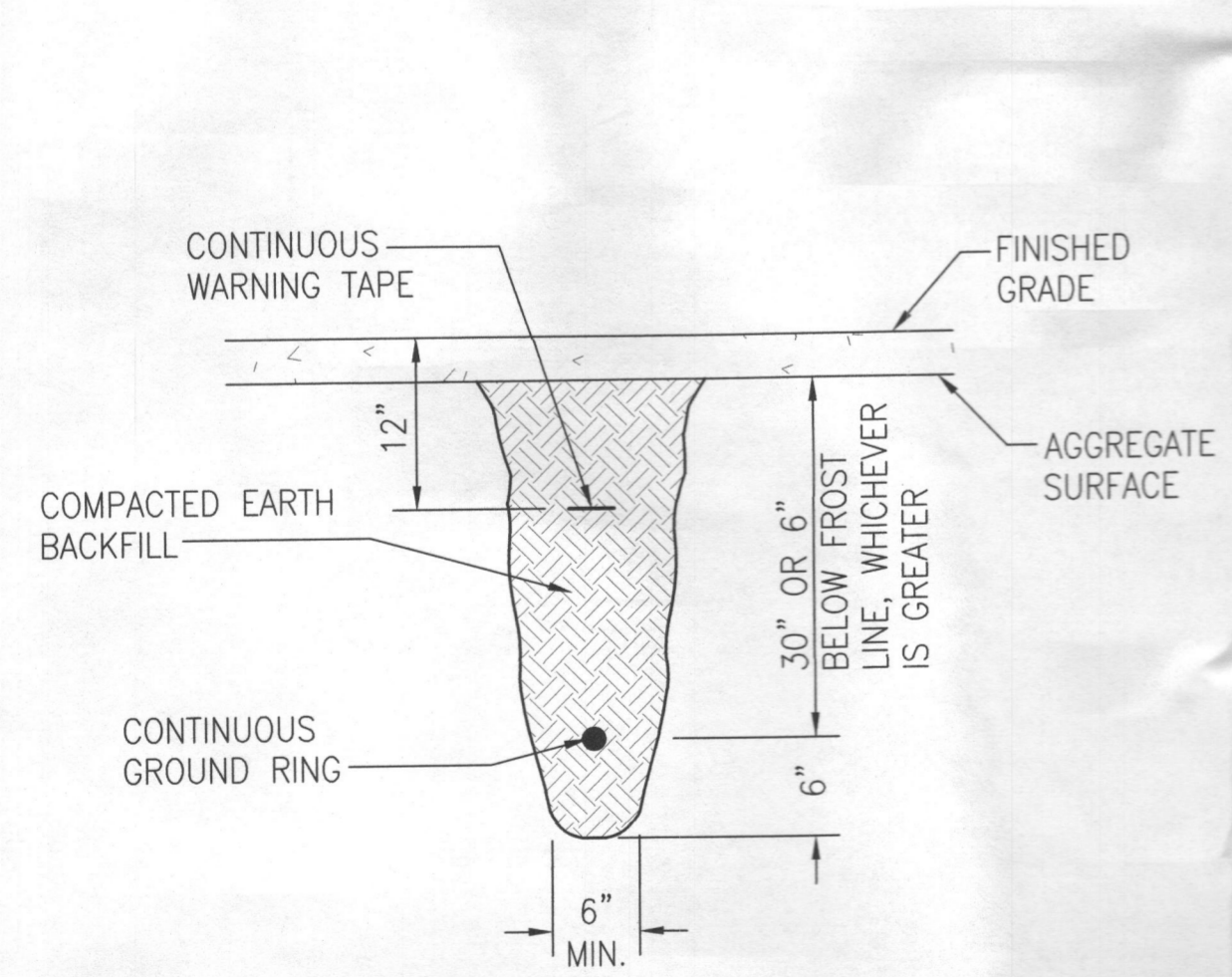
**1** POST GROUNDING DETAIL  
--- NOT TO SCALE



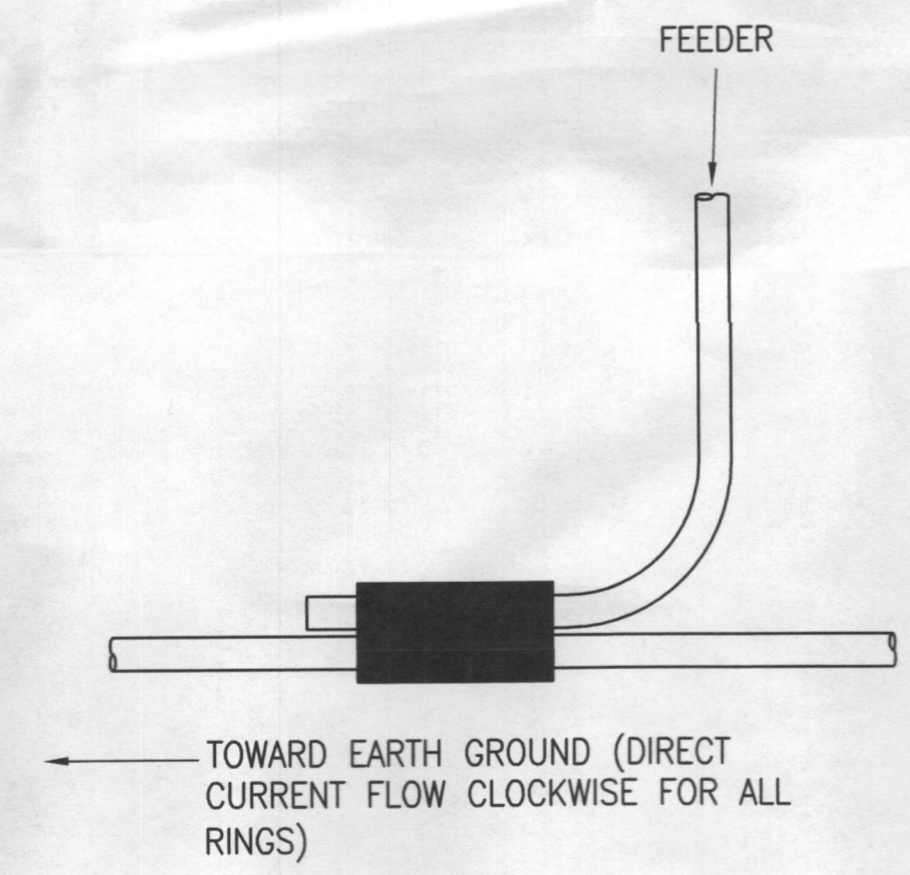
**2** GROUND ROD DETAIL  
--- NOT TO SCALE



**3** GROUND TEST WELL DETAIL  
--- NOT TO SCALE



**4** TRENCH DETAIL FOR GROUND RING  
--- NOT TO SCALE



**5** GROUND CONDUCTOR CONNECTION  
--- NOT TO SCALE

TYPE TA	TYPE VN	TYPE NC	TYPE SS
TYPE VW	TYPE VS	TYPE VB	TYPE PT
TYPE GT	TYPE GY	TYPE GR	TYPE GL

**6** EXOTHERMIC WELD DETAILS  
--- NOT TO SCALE

verticalbridge

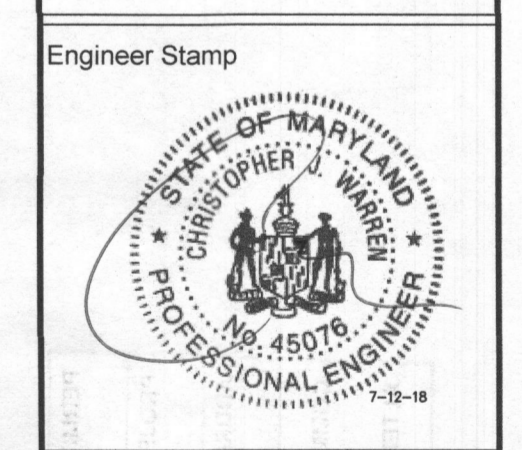
INFINIGY8 FROM ZERO TO INFINIGY the solutions are endless

verizon wireless

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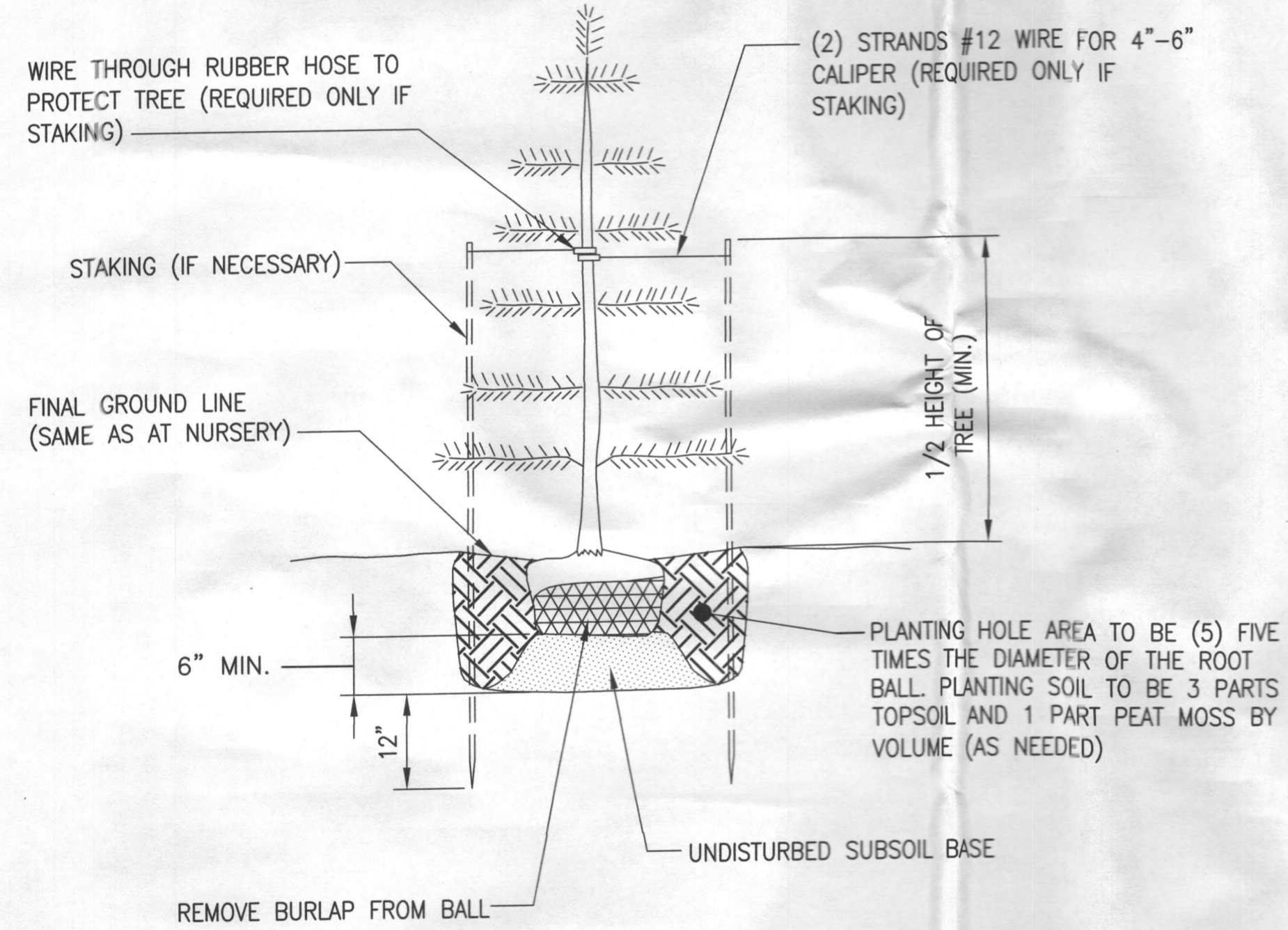
Drawing Title  
**GROUNDING DETAILS**

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**E5**

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1 EVERGREEN TREE PLANTING DETAIL  
--- NOT TO SCALE

5' HT. - USE 2 STAKES, 1/2 HT. OF TREE +2'

**LANDSCAPE NOTES**

**A. PROJECT INCLUDES**

1. FURNISH, INSTALL, AND MAINTAIN LANDSCAPE WORK AS SHOWN ON THESE CONTRACT DRAWINGS OR AS IDENTIFIED HEREIN.
  - A. TREES, SHRUBS AND GROUND COVER.
  - B. LAWNS.
  - C. TOPSOIL AND SOIL AMENDMENTS.
  - D. INITIAL MAINTENANCE OF INSTALLED LANDSCAPE MATERIAL.
  - E. PRUNING AND RELOCATION OF EXISTING PLANT MATERIALS.
  - F. RECONDITIONING EXISTING LAWNS AFFECTED BY CONSTRUCTION ACTIVITIES.

**B. QUALITY ASSURANCE**

1. PLANTS AND TREES: BALLED AND BURLAPED PLANTS AND TREES SHALL BE GRADED TO AMERICAN STANDARD FOR NURSERY STOCK, ANSI C80.1.
2. TESTING: LABORATORY TESTING OF EXISTING SOILS AND FILL MATERIALS FOR SUITABLE SOIL AMENDMENTS AND FERTILIZER SHALL BE PERFORMED BY THE LANDSCAPE CONTRACTOR.
3. CONTRACTOR SHALL PREPARE THE SURFACE OF DISTURBED AREAS PRIOR TO SEEDING.
4. FERTILIZER AND SEED SHALL BE APPLIED AT UNIFORM RATES AS DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. CONTRACTOR SHALL WATER SEEDED AREAS AS OFTEN AS REQUIRED TO OBTAIN GERMINATION AND TO OBTAIN AND MAINTAIN SATISFACTORY GROWTH.
6. THE STAND OF VEGETATIVE COVER RESULTING FROM SEEDING SHALL NOT BE CONSIDERED SATISFACTORY UNTIL ACCEPTED BY THE ENGINEER. IF AREAS ARE DETERMINED TO BE UNACCEPTABLE, THE MULCH WILL BE REMOVED AND ALL AREAS SHALL BE RESEED, REFERTILIZED AND REMULCHED PER RECOMMENDED APPLICATION PROCEDURES AT THE CONTRACTORS EXPENSE.
7. THE CONTRACTOR SHALL BEGIN MAINTENANCE PERIOD IMMEDIATELY AFTER PLANTING OF VEGETATIVE COVER.
8. THE CONTRACTOR SHALL MAINTAIN THE VEGETATIVE COVER AREA, FOR THE PERIODS REQUIRED TO ESTABLISH AN ACCEPTABLE GROWTH, BUT NOT LESS THAN 60 DAYS AFTER THE COMPLETION OF PLANTING OF VEGETATIVE COVER. IF SEEDED IN THE FALL AND NOT GIVEN A FULL 60 DAYS OF MAINTENANCE, OR IF NOT CONSIDERED ACCEPTABLE BY THE ENGINEER AT THAT TIME, CONTINUE MAINTENANCE DURING THE FOLLOWING SPRING UNTIL ACCEPTABLE VEGETATIVE COVER STAND IS ESTABLISHED.

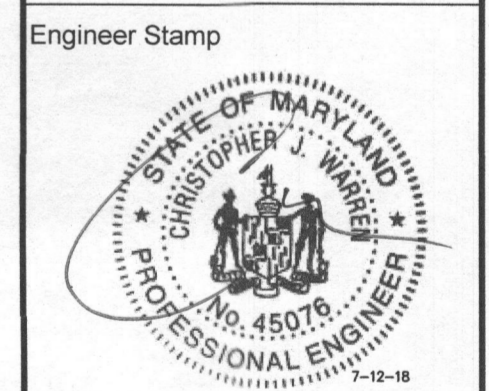
**C. PRODUCTS**

1. PLANT MATERIALS SHALL BE AS SHOWN ON THESE CONTRACT DRAWINGS AND MAY BE ANY COMBINATION OF THE FOLLOWING:
  - A. DECIDUOUS TREES.
  - B. DECIDUOUS SHRUBS.
  - C. CONIFEROUS AND BROAD LEAFED EVERGREEN TREES AND SHRUBS.
  - D. GROUND COVER.
  - E. PLANTS.
2. LAWNS: LAWN MAY BE ANY OF THE FOLLOWING, AS APPROVED BY THE ENGINEER: SEED; NEW CROP SEED MIXTURE; SOD, STRONGLY ROOTED, 2 YEARS OLD; OR SOD PLUGS AND SPRIGS.
3. TOPSOIL: FERTILE, FRIABLE TOPSOIL FROM OFFSITE, OR FROM SITE STOCKPILE WITH ADDITIONAL MIXED-IN FERTILE, FRIABLE TOPSOIL FROM LOCAL SUPPLIERS OF TOPSOIL.
4. SOIL AMENDMENTS: THE SOIL AMENDMENTS MAY BE ANY OF THE FOLLOWING, AS REQUIRED OR INDICATED IN THE LABORATORY TESTING REPORTS.
  - A. LIME: DOLOMITIC LIMESTONE.
  - B. ALUMINUM SULFATE: COMMERCIAL GRADE.
  - C. PEAT HUMUS: FINELY DIVIDED PEAT.
  - D. SUPERPHOSPHATE: 20 PERCENT AVAILABLE PHOSPHORIC ACID.
  - E. SAND: CLEAN, WASHED SAND.
  - F. PERLITE: NBS PS 23.
  - G. SAWDUST: ROTTED SAWDUST FREE OF CHIPS AND STONES.
  - H. MANURE: ROTTED STABLE MANURE.
  - I. COMMERCIAL FERTILIZER: NEUTRAL CHARACTER FOR PLANT MATERIALS AND LAWNS.
  - J. MULCH: SHREDDED HARDWOOD MULCH.
5. LANDSCAPE MATERIALS: THE LANDSCAPE MATERIALS MAY BE ANY OF THE FOLLOWING, AS SHOWN ON THESE CONTRACT DRAWINGS.
  - A. GRAVEL: WATER-WORN GRAVEL.
  - B. ANTI-EROSION MULCH: SEED-FREE SALT HAY OR THRESHED STRAW.
  - C. ANTI-DESICCANT: EMULSION TYPE, FILM-FORMING.
  - D. PLASTIC SHEET: BLACK POLYETHYLENE, 8 MILS.
  - E. FILTRATION FABRIC: WATER PERMEABLE FIBERGLASS OR POLYPROPYLENE FABRIC.
  - F. WRAPPING: TREE-WRAP TAPE.
  - G. STAKES AND GUYS: NEW HARDWOOD, TREATED SOFTWOOD, OR REDWOOD.
  - H. METAL EDGING: COMMERCIAL STEEL EDGING.
  - I. WOOD HEADERS AND EDGING: ALL HEART REDWOOD OR PRESSURE TREATED SOUTHERN YELLOW PINE.

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DIVISION

Drawing Number  
L2