COMMUNITY TRANSPERTATION FUND SUBDIVISION ENTRANCE SIGN 2017 - 2019 CTF PROJECT #T201709504

SHEET 1: Option 1 - The Delaware

SHEET 2: Option 2 - The Village Inn

SHEET 3: Option 3- The Blue Hen

SHEET 4: Option 4 - The Brandywine

SHEET 5: Option 5 - The Lewes

SHEET 6: Option 6 - The Odessa

SHEET 7: Option 7 - The Magnolia

SHEET 8: Option 8 - The Bethany

I, MATTHEW SPONG, HEREBY STATE THAT I AM A REGISTERED LANDSCAPE ARCHITECT IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF REPRESENTS GOOD LANDSCAPE ARCHITECTURAL PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

DATE MATTHEW T. SPONG #126-E

PROJECT #: 0563 COMM #: 1209 DATE: 10/07/09

Drawn:CDC Designed By:CDC/MTS Checked By: MTS

REVISION: 3.5.10 - 95% Complete

4.30.10 - 100% DelDOT Comments of 4.9.10

6.15.10 - 100% Galvanized Post

7.31.13 - rev. cold galv. specs per DelDOT

3.20.2017 General updates, add Option 7 & Cover Sheet

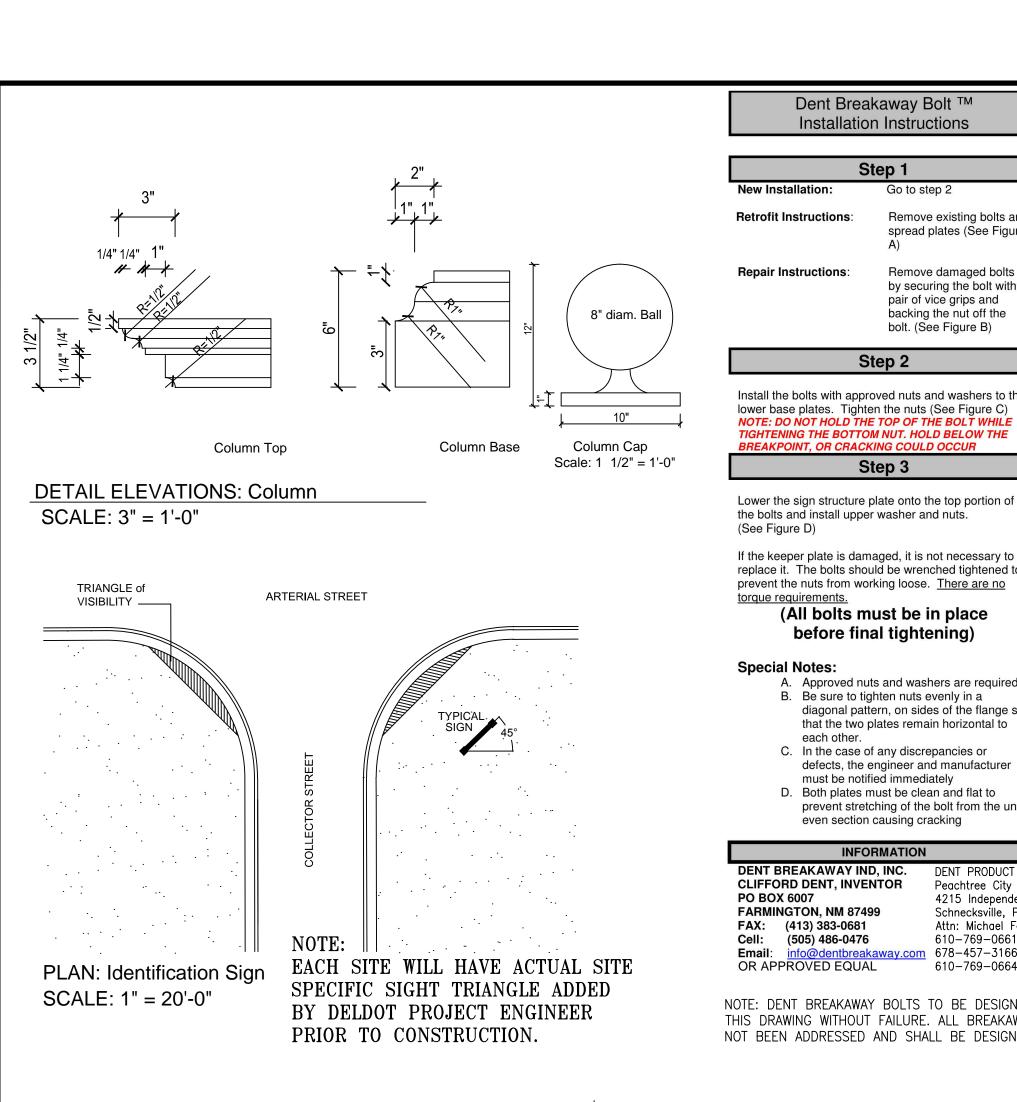
COMMUNITY TRANSPERTATION FUND SUBDIVISION ENTRANCE SIGN 2017 - 2019 CTF PROJECT #T201709504





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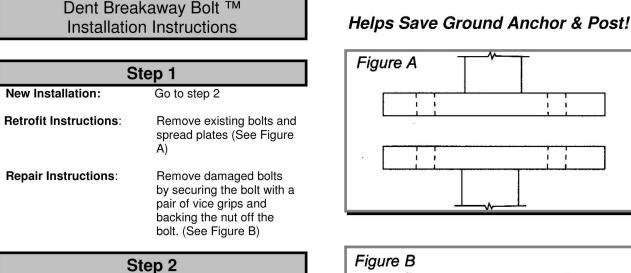


Figure B Install the bolts with approved nuts and washers to the TIGHTENING THE BOTTOM NUT. HOLD BELOW THE

Figure C

Lower the sign structure plate onto the top portion of the bolts and install upper washer and nuts. (See Figure D)

Step 3

If the keeper plate is damaged, it is not necessary to replace it. The bolts should be wrenched tightened to prevent the nuts from working loose. There are no torque requirements. (All bolts must be in place before final tightening)

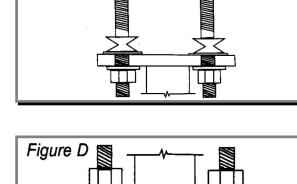
Special Notes:

 Approved nuts and washers are required B. Be sure to tighten nuts evenly in a diagonal pattern, on sides of the flange so that the two plates remain horizontal to each other.

C. In the case of any discrepancies or defects, the engineer and manufacturer must be notified immediately D. Both plates must be clean and flat to prevent stretching of the bolt from the un-

INFORMATION DENT BREAKAWAY IND, INC. **CLIFFORD DENT, INVENTOR** Peachtree City Foamcraf PO BOX 6007 4215 Independence Dr **FARMINGTON, NM 87499** Schnecksville, PA 18078 FAX: (413) 383-0681 Attn: Michael Fetter Cell: (505) 486-0476 610-769-0661 Office breakaway.com 678-457-3166 Cell

even section causing cracking



DENT BREAKAWAY BOLT #6878 5/8'

MIN WIND LOAD REQS TOTAL SHEAR LOAD: 700 LBS MOMENT LOAD: 1.0 FT-KIPS 3.0" MIN DIAMETER POST

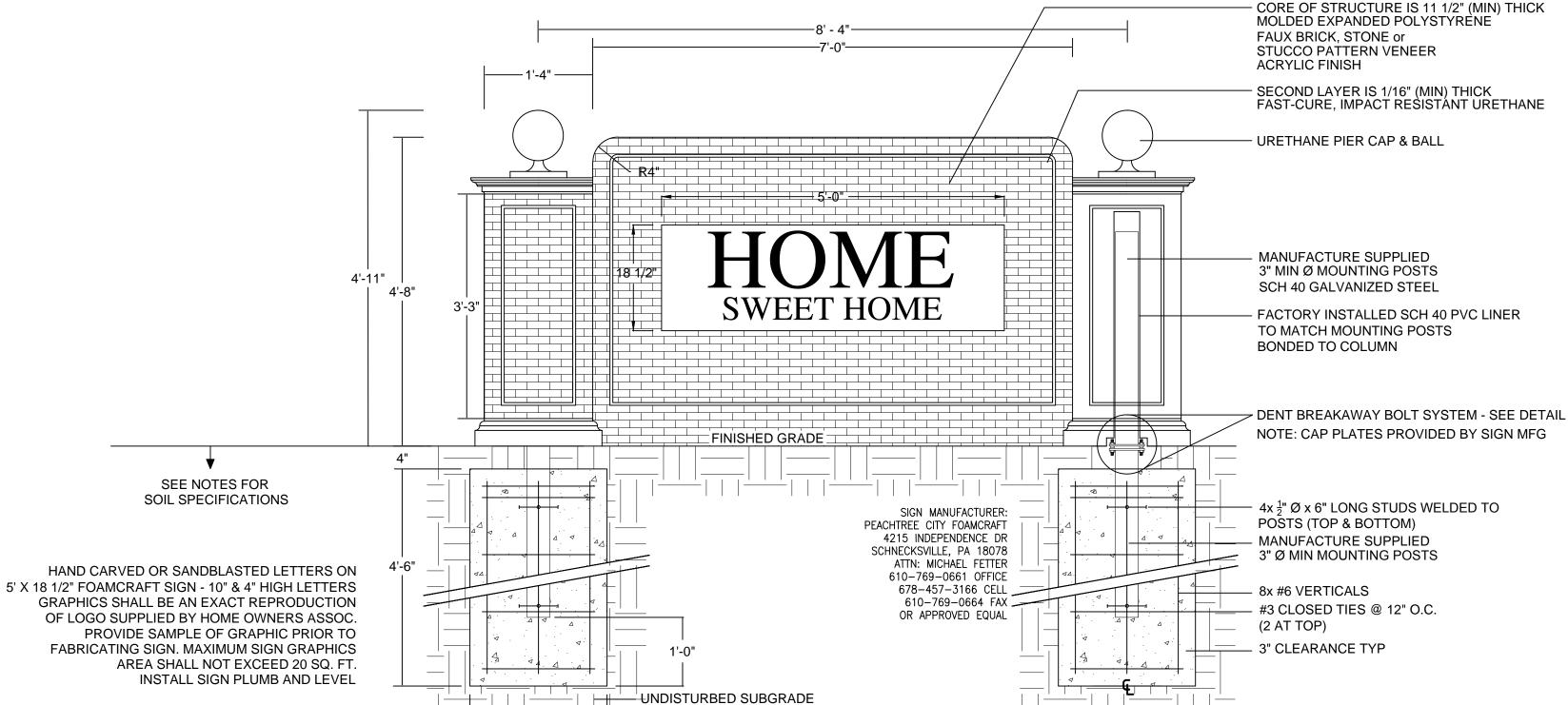
NOTE: DENT BREAKAWAY BOLTS TO BE DESIGNED TO RESIST THE WIND LOADS PROVIDED ON THIS DRAWING WITHOUT FAILURE. ALL BREAKAWAY CHARACTERISTICS OF THE BOLT SYSTEM HAVE NOT BEEN ADDRESSED AND SHALL BE DESIGNED BY THE MANUFACTURER.

610-769-0664 Fax

PROJECT NOTES:

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL MATERIALS & INSTALLATION TECHNIQUES TO DELDOT PROJECT ENGINEER PRIOR TO START OF CONSTRUCTION.

ANY TEMPORARY TRAFFIC CONTROL THAT IS REQUIRED FOR THE INSTALLATION OF THIS SIGN SHALL CONFORM TO THE REQUIREMENTS OF PART 6 OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) INCLUDING ALL REVISIONS THAT HAVE BEEN APPROVED AT THE START OF CONSTRUCTION.



E. FLEXURAL STRENGTH: 30-38 PSI ASTM C203. F. WATER ABSORPTION BY TOTAL IMMERSION: LESS THAN 4% ASTM C272 G. THERMAL EXPANSION: 0.0000035 IN/IN ASTM D696 H. OXYGEN INDEX: 24% MIN VOLUME ASTM C578. I. TEMITE RESISTANCE: PASSED ASTM D3345. J. CARPENTER ANT RESISTANCE: PASSED ASTM D3345. 4. POLY-ARMOR @ 60 MILS 1 LB EXPANDED POLYSTYRENE A. IMPACT RESISTANCE: @77° F = 500 IN-LBS $@32^{\circ} F = 350 \text{ IN-LBS ASTM G14}$ $@77^{\circ} F = 400\%$ B. ELONGATION: $@32^{\circ} F = 155\%$ ASTM D412 C. TENSILE STRENGTH: @77° F = 3000 PSI @32° F = 2200 PSI ASTM D412 $@77^{\circ} F = 250 PLI$ D. TEAR STRENGTH: $@32^{\circ} F = 150 PLI$ ASTM D624 E. FLEXIBILITY: $@77^{\circ} F = PASS$ $@32^{\circ} F = PASS$ $@77^{\circ} F = PASS$ $@32^{\circ} F = PASS$ ASTM E84 5. ACRYLIC: TEXTURES FINISH "MASTER WALL BRAND" OR APPROVED EQUAL 6. COLORS SHALL BE SELECTED FROM MFG'S STANDARD COLOR CHART. 7. WARRANTY: 5-YEAR WARRANTY ON MATERIALS USED FOR SIGN FABRICATION 8. FABRICATION: FABRICATE SIGNS TO DIMENSIONS, PROFILES AND TEXTURES SHOWN ON THE DRAWINGS 9. INSTALL SIGNS PLUMB AND LEVEL. 10. FOOTINGS HAVE BEEN DESIGNED BASED ON AN ASSUMED SOIL BEARING CAPACITY OF 2.000 PSF. CONTRACTOR SHALL VERIFY SUITABILITY OF SUBSOIL FOR THE PROPOSED STRUCTURE AND MAKE NECESSARY ALLOWANCES IF SUBSOIL IS NOT SUITABLE. 11. CONCRETE SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE ACI SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS' LATEST EDITION. FOOTINGS SHALL ACHIEVE 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. 12. STEEL PIPE - TYPE I: ASTM F 1083, STANDARD WEIGHT SCHEDULE 40; MINIMUM YIELD STRENGTH OF 25,000 PSI (170 MPA); SIZES AS INDICATED. HOT DIPPED GALVANIZED WITH MINIMUM AVERAGE 1.8 OZ/FT2 (550G/M2) OF COATED SURFACE AREA. 13. ALL REINFORCING BARS AND OTHER STEEL SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM-A307. 14. THE 3 1 DIAM MOUNTING POST SHALL BE HOT DIPPED GALVANIZED. THE CAP PLATE AND STUDS MAY BE WELDED ONTO THE POST AFTER HOT DIPPED PPROCESS AND THEN COLD GALVANIZED, WELDS, PLATES, STUDS AND REPAIR OF ANY DAMAGED HOT DIPPED GALVANIZING ON THE POST SHALL BE PREPARED AND COATED ACCORDING TO ASTM A 780. 1. PRESUMPTIVE BEARING CAPACITY: 2000 PSF FOR THE PROPOSED FOUNDATION SYSTEM.

1. FOAM CORE SIGN STRUCTURE SHALL BE CAPABLE OF SUSTAINING A STATIC LOAD OF

2. MANUFACTURER: FABRICATED UNITS SHALL BE FABRICATED BY PEACHTREE CITY FOAM

3. EXPANDED POLYSTYRENE CORE, (EPS): ASTM C 578 TYPE 1, RIGID CELLULAR THERMAL

INSTALLATION FORMED BY EXPANSION OF POLYSTYRENE RESIN BEADS OR GRANULES IN A

DENSITY RANGE 1.15 - 1.34 ASTM 1622

EQUIVALENT

A. AGE IN BLOCK FORM (PRIOR TO CUFFING) BY AIR-DRYING FOR

B. BOARD DENSITY: MIN DENSITY OF 1.15 LB/CU.FT. ASTM D303

C. COMPRESSION STRENGTH 10% DEFORMATION 13-18 PSI

FOAM CORE SIGN SPECIFICATIONS

CRAFT, 4215 INDEPENDENCE DR SCHNECKVILLE, PA

PHONE: 610-769-0661 www.foamcraft.info/monumentsign

CLOSED CELL, COMPLYING WITH THE FOLLOWING PROPERTIES:

MINIMUM OF 4 WEEKS OR APPROVED METHODS PRODUCING

D. TENSILE STRENGTH: 18-22 PSI ASTM D1623.

80 LBS PER SQUARE FOOT (80PSF)

ASTM D1621.

(OR APPROVED EQUAL)

2. CONTRACTOR, AT HIS EXPENSE, SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER LICENSED IN DELAWARE, TO VERIFY THE SUITABILITY OF THE SUBGRADE

3. FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FOOTINGS BEARING ON SUITABLE NATURAL SOILS AND/OR NEW COMPACTED STRUCTURAL FILL.

4. ALL ORGANIC MATERIALS, EXCESSIVELY SOFT OR LOOSE SOILS, TREES, ASPHALT, CONCRETE, DEBRIS AND OTHER DELETERIOUS MATERIALS SHOULD BE REMOVED WITHIN AND AT LEAST 5 FEET BEYOND THE LIMIT OF THE STRUCTURE. THE EXISTING ORGANIC SOIL SHOULD BE STRIPPED AND CAN BE STOCKPILED FOR REUSE IN LANDSCAPE AREAS. PROOF ROLL ALL SUBGRADES, UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER. UNSUITABLE AREAS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER. NO FILL FOR STRUCTURE SUPPORT SHALL BE PLACED UNTIL SUBGRADES AND FILL MATERIAL HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.

5. AREAS REQUIRING UNDERCUT AND FILL MATERIAL DUE TO THE PRESENCE OF UNSUITABLE MATERIAL SHALL BE BACKFILLED TO THE DESIGN FOOTING SUBGRADE WITH NEW COMPACTED STRUCTURAL FILL.

6. COMPACTED STRUCTURAL FILL FOR STRUCTURE SUPPORT APPROVED FOR USE INCLUDE:

GRANULAR SOILS INCLUDING GW, GP, GM, SW, SP AND SM CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS). FURTHERMORE, THE MATERIAL TO BE UTILIZED AS STRUCTURAL FILL SHOULD HAVE A PLASTICITY INDEX (PI) LESS THAN 20.

A MATERIAL UTILIZED FOR STRUCTURAL FILL MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER. IF THERE IS NOT SUFFICIENT FILL MATERIAL ON SITE, CONTRACTOR SHALL TRANSPORT APPROVED BORROW MATERIAL FROM AN

OFF SITE SOURCE. 7. COMPACTED STRUCTURAL FILL BENEATH ALL FOUNDATIONS SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS AND BE COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D-1557, MODIFIED PROCTOR TEST.

8. THE EXCAVATION FOR PLACEMENT OF COMPACTED STRUCTURAL FILL SHOULD EXTEND BEYOND THE EDGE OF FOOTINGS A MINIMUM DISTANCE EQUAL TO THE DEPTH OF FILL

9. ALL SUBGRADES AND UNDERCUTS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER. SOILS EXPOSED AT THE BASES OF ALL APPROVED FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHOULD BE PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. SLOPE FOOTING EXCAVATIONS AS REQUIRED FOR STABILITY AND SAFETY OR PROVIDE SHEETING OR SHORING IN ACCORDANCE WITH OSHA REQUIREMENTS.

GENERAL CONDITION NOTES

- 1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE AND ALLOW FOR EXISTING UTILITIES. PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 'MISS UTILITIES' OF DELMARVA TO LOCATE EXISTING UTILITIES IN THE FIELD. TELEPHONE: 811. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICES. ANY DAMAGE DONE TO THE UTILITIES DUE TO HIS OR HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPETENTLY REPAIRED AT THE CONTRACTORS OWN EXPENSE.
- 2. ALL CONSTRUCTION SHALL BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT. THESE DRAWINGS DO NOT I INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY
- 3. DUE TO POSSIBLE REPRODUCTION AND MEDIUM DISTORTIONS, SCALED DIMENSIONS ARE NOT TO BE TAKEN FROM THESE DRAWINGS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND VERIFY ALL GRADES AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND MAKE THE PROPER ADJUSTMENTS TO THE PLANS AND DETAILS IF SITE CONDITIONS DO NOT ALLOW THE 'STANDARD' ENTRANCE SIGN TO BE
- 5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO INITIATION OF CONSTRUCTION AND CONSTRUCT SIGNS IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.
- 6. ALL CONSTRUCTION LAYOUT SHALL BE PROVIDED BY A DELAWARE

PROFESSIONAL LAND SURVEYOR. 7. ALL ± DIMENSIONS ARE CHECK DIMENSIONS

- 8. THE CONTRACTOR IS REQUIRED TO EXAMINE THE SITE OF THE WORK PLANS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS FOR THE WORK CONTEMPLATED AND IT WILL BE ASSUMED THAT HE HAS FAMILIARIZED AND SATISFIED HIMSELF AS TO THE CHARACTER, QUALITY AND QUANTITIES OF WORK TO BE PERFORMED AND MATERIALS TO BE FURNISHED AND AS TO THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, NOTES AND CONTRACT DOCUMENTS. HE MUST BE PREPARED TO EXECUTE A FINISHED JOB IN EVERY WAY WITHOUT ANY EXTRA CHARGE WHATSOEVER.
- 9. THE COMMUNITY IDENTIFICATION SIGN MUST BE LOCATED WITHIN A PUBLIC RIGHT-OF-WAY, A ROAD RIGHT-OF-WAY (IF APPROVED BY DELDOT), OR PROPERTY DEDICATED TO PUBLIC USE. THE COMMUNITY ASSOCIATION MUST OBTAIN REQUIRED DEDICATION PRIOR TO START OF SIGN CONSTRUCTION.
- 10. SIGN ORDINANCES VARY FROM MUNICIPALITY TO MUNICIPALITY ACCORDINGLY, ALL SIGNS MUST BE APPROVED BY ALL JURISDICTIONAL APPROVAL AGENCIES PRIOR TO THE START OF CONSTRUCTION.

1. BUILDING CODE: INTERNATIONAL BUILDING CODE (2015 EDITION).

2. WIND LOADING IS BASED ON THE FOLLOWING: BASIC WIND SPEED 120 MPH EXPOSURE CATEGORY IMPORTANCE FACTOR 1.0 35 PSF DESIGN WIND PRESSURE

I. ALL CONCRETE WORK SHALL CONFORM TO ACI 318 (LATEST EDITION). 2. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE:

FOOTINGS: 3000 PSI

ALL CONC. TO BE NORMAL WEIGHT UNLESS NOTED OTHERWISE. ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED $(6 \pm 1)\%$ PER ASTM C260. MAXIMUM WATER/CEMENT RATIO = 0.50 FOR 3000 PSI CONC. MAXIMUM SLUMP = 4"

3. CONCRETE REINFORCING SHALL CONFORM TO THE FOLLOWING DESIGNATIONS: DEFORMED BARS ASTM A615, GRADE 60

4. CONCRETE PROTECTION FOR REINFORCEMENT (UNLESS NOTED OTHERWISE): CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 IN.

5. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND. STRUCTURAL STEEL

1. STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION.

2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS: ROUND PIPE: ASTM A53, TYPE E OR S STEEL BARS, ANGLES & PLATES: ASTM A36, U.N.O.

ANCHOR BOLTS: ASTM A307 3. ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION.

ELECTRODES SHALL BE E70XX. 4. GALVANIZE: ASTM A123 FOR SHAPES AND ASSEMBLIES, ASTM A153 FOR FASTENERS. USE GALVANIZED FASTENERS WHEN CONNECTING GALVANIZED MEMBERS.

5. ANCHOR BOLT AND BASE PLATE DESIGN TO BE BY DENT BREAKAWAY BOLT MANUF.

STATEMENT OF ACCURACY , MATTHEW SPONG, HEREBY STATE THAT I AM A REGISTERED LANDSCAPE ARCHITECT IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF REPRESENTS GOOD LANDSCAPE ARCHITECTURAL PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE

DATE MATTHEW T. SPONG #126-E

PROJECT #: 0563 COMM #: 1209 DATE: 10/07/09 Drawn:CDC Designed By:CDC/MTS Checked By: MTS REVISION: 3.5.10 - 95% Complete 4.30.10 - 100% DelDOT Comments of 4.9.10 6.15.10 - 100% Galvanized Post 7.31.13 - rev. cold galv. specs per DelDOT 3.20.2017 General updates, add Option 7 & Cover Sheet

SECTION / ELEVATION: Identification Sign

SCALE: 3/4" = 1'-0"

COMMUNITY TRANSPERTATION FUND SUBDIVISION ENTRANCE SIGN 2017 - 2019 CTF PROJECT #T201709504

2'-0" ——— SQUARE OR ROUND

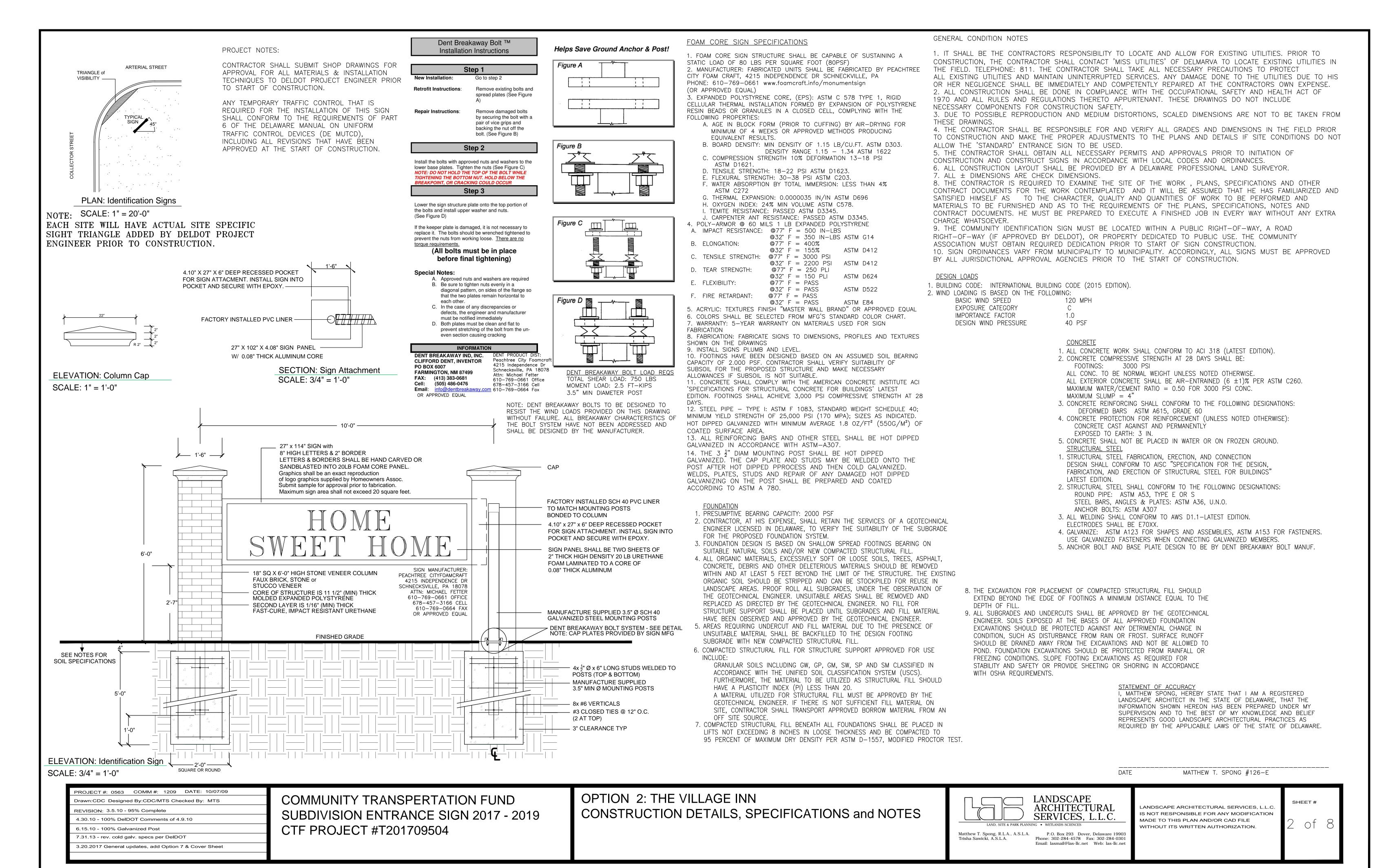
OPTION 1: THE DELAWARE CONSTRUCTION DETAILS, SPECIFICATIONS and NOTES

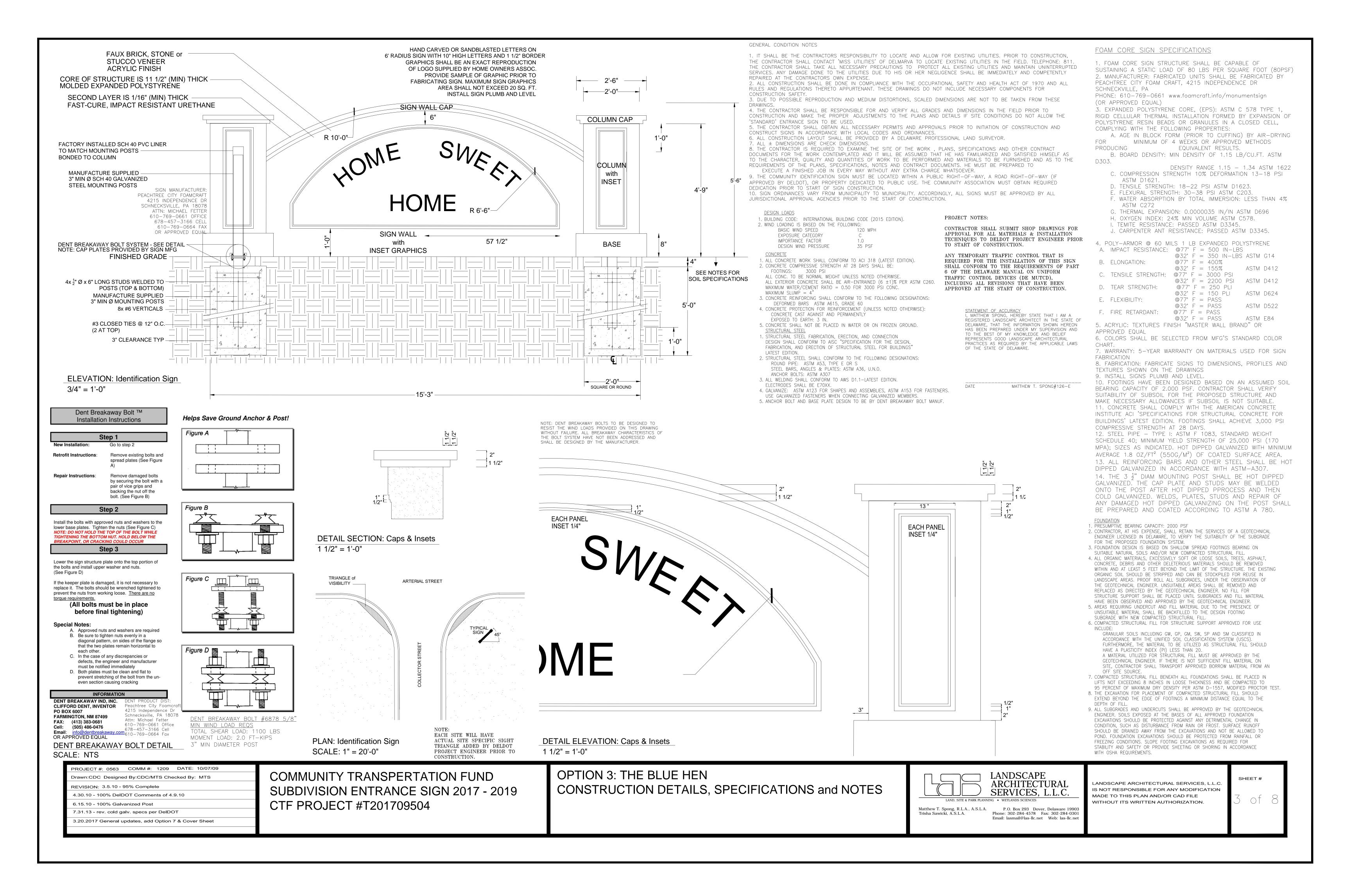


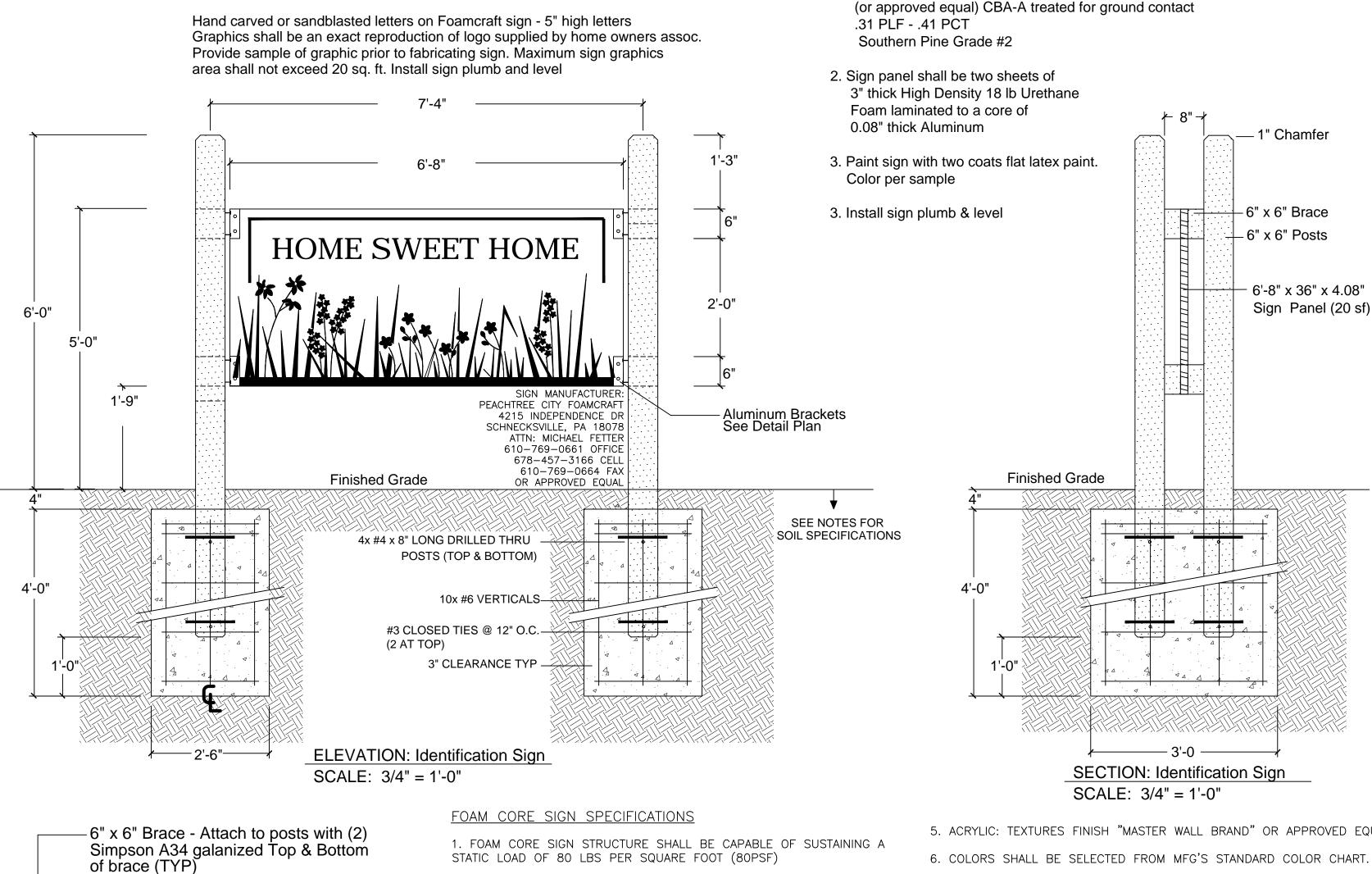
Matthew T. Spong, R.L.A., A.S.L.A. Phone: 302-284-4578 Fax: 302-284-0301 Email: lasmail@las-llc.net Web: las-llc.net

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SHEET# O^{\dagger}







2. MANUFACTURER: FABRICATED UNITS SHALL BE FABRICATED BY PEACHTREE 7. WARRANTY: 5-YEAR WARRANTY ON MATERIALS USED FOR SIGN CITY FOAM CRAFT, 4215 INDEPENDENCE DR SCHNECKVILLE, PA PHONE: 610-769-0661 www.foamcraft.info/monumentsign (OR APPROVED EQUAL)

3. EXPANDED POLYSTYRENE CORE. (EPS): ASTM C 578 TYPE 1. RIGID CELLULAR THERMAL INSTALLATION FORMED BY EXPANSION OF POLYSTYRENE RESIN BEADS OR GRANULES IN A CLOSED CELL, COMPLYING WITH THE PLAN: Sign Panel Attachment FOLLOWING PROPERTIES

- A. AGE IN BLOCK FORM (PRIOR TO CUFFING) BY AIR-DRYING FOR MINIMUM OF 4 WEEKS OR APPROVED METHODS PRODUCING EQUIVALENT RESULTS.
- B. BOARD DENSITY: MIN DENSITY OF 1.15 LB/CU.FT. ASTM D303. DENSITY RANGE 1.15 - 1.34 ASTM 1622

F. WATER ABSORPTION BY TOTAL IMMERSION: LESS THAN 4%

- C. COMPRESSION STRENGTH 10% DEFORMATION 13-18 PSI
- D. TENSILE STRENGTH: 18-22 PSI ASTM D1623. FLEXURAL STRENGTH: 30-38 PSI ASTM C203.
- G. THERMAL EXPANSION: 0.0000035 IN/IN ASTM D696 H. OXYGEN INDEX: 24% MIN VOLUME ASTM C578.
- I. TEMITE RESISTANCE: PASSED ASTM D3345. J. CARPENTER ANT RESISTANCE: PASSED ASTM D3345.

4. POLY-ARMOR @ 60 MILS 1 LB EXPANDED POLYSTYRENE A. IMPACT RESISTANCE: @77° F = 500 IN-LBS

 $@32^{\circ} F = 350 \text{ IN-LBS ASTM G14}$ B. ELONGATION: $@77^{\circ} F = 400\%$ $@32^{\circ} F = 155\%$ ASTM D412 C. TENSILE STRENGTH: @77° F = 3000 PSI $@32^{\circ} F = 2200 PSI$ ASTM D412 D. TEAR STRENGTH: $@77^{\circ} F = 250 PLI$ $@32^{\circ} F = 150 PLI$ ASTM D624 E. FLEXIBILITY: $@77^{\circ} F = PASS$ $@32^{\circ} F = PASS$ ASTM D522

 $@77^{\circ} F = PASS$

 $@32^{\circ} F = PASS$

F. FIRE RETARDANT:

5. ACRYLIC: TEXTURES FINISH "MASTER WALL BRAND" OR APPROVED EQUAL

6. COLORS SHALL BE SELECTED FROM MFG'S STANDARD COLOR CHART.

FABRICATION

8. FABRICATION: FABRICATE SIGNS TO DIMENSIONS, PROFILES AND TEXTURES SHOWN ON THE DRAWINGS

9. INSTALL SIGNS PLUMB AND LEVEL.

MATERIALS NOTES:

1. All lumber shall be 'Wolmanized' natural select wood

10. FOOTINGS HAVE BEEN DESIGNED BASED ON AN ASSUMED SOIL BEARING CAPACITY OF 2.000 PSF. CONTRACTOR SHALL VERIFY SUITABILITY OF SUBSOIL FOR THE PROPOSED STRUCTURE AND MAKE NECESSARY ALLOWANCES IF SUBSOIL IS NOT SUITABLE.

11. CONCRETE SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE ACI 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS' LATEST EDITION. FOOTINGS SHALL ACHIEVE 3,000 PSI COMPRESSIVE STRENGTH AT 28

12. STEEL PIPE - TYPE I: ASTM F 1083, STANDARD WEIGHT SCHEDULE 40; MINIMUM YIELD STRENGTH OF 25,000 PSI (170 MPA); SIZES AS INDICATED. HOT DIPPED GALVANIZED WITH MINIMUM AVERAGE 1.8 OZ/FT2 (550G/M2) OF COATED SURFACE AREA.

13. ALL REINFORCING BARS AND OTHER STEEL SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM-A307.

14. THE 3 1" DIAM MOUNTING POST SHALL BE HOT DIPPED GALVANIZED. THE CAP PLATE AND STUDS MAY BE WELDED ONTO THE POST AFTER HOT DIPPED PPROCESS AND THEN COLD GALVANIZED. WELDS, PLATES, STUDS AND REPAIR OF ANY DAMAGED HOT DIPPED GALVANIZING ON THE POST SHALL BE PREPARED AND COATED ACCORDING TO ASTM A 780.

- 1. ALL CONCRETE WORK SHALL CONFORM TO ACI 318 (LATEST EDITION).
- 2. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE: 3000 PSI
- ALL CONC. TO BE NORMAL WEIGHT UNLESS NOTED OTHERWISE. ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED $(6 \pm 1)\%$ PER ASTM C260. MAXIMUM WATER/CEMENT RATIO = 0.50 FOR 3000 PSI CONC.
- MAXIMUM SLUMP = 4"3. CONCRETE REINFORCING SHALL CONFORM TO THE FOLLOWING DESIGNATIONS: DEFORMED BARS ASTM A615, GRADE 60
- 4. CONCRETE PROTECTION FOR REINFORCEMENT (UNLESS NOTED OTHERWISE): CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 IN.
- 5. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.

- 1. STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION.
- 2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS: ROUND PIPE: ASTM A53, TYPE E OR S STEEL BARS, ANGLES & PLATES: ASTM A36, U.N.O.
- ANCHOR BOLTS: ASTM A307 3. ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION.
- ELECTRODES SHALL BE E70XX. 4. GALVANIZE: ASTM A123 FOR SHAPES AND ASSEMBLIES, ASTM A153 FOR FASTENERS USE GALVANIZED FASTENERS WHEN CONNECTING GALVANIZED MEMBERS.

ANCHOR BOLT AND BASE PLATE DESIGN TO BE BY DENT BREAKAWAY BOLT MANUF.

DESIGN LOADS

1. BUILDING CODE: INTERNATIONAL BUILDING CODE (2015 EDITION). 2. WIND LOADING IS BASED ON THE FOLLOWING:

BASIC WIND SPEED 120 MPH EXPOSURE CATEGORY IMPORTANCE FACTOR 1.0 DESIGN WIND PRESSURE 40 PSF

<u>FOUNDATION</u>

- . PRESUMPTIVE BEARING CAPACITY: 2000 PSF 2. CONTRACTOR, AT HIS EXPENSE, SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER LICENSED IN DELAWARE, TO VERIFY THE SUITABILITY OF THE SUBGRADE
- FOR THE PROPOSED FOUNDATION SYSTEM 3. FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FOOTINGS BEARING ON SUITABLE NATURAL SOILS AND/OR NEW COMPACTED STRUCTURAL FILI
- 4. ALL ORGANIC MATERIALS, EXCESSIVELY SOFT OR LOOSE SOILS, TREES, ASPHALT, CONCRETE, DEBRIS AND OTHER DELETERIOUS MATERIALS SHOULD BE REMOVED WITHIN AND AT LEAST 5 FEET BEYOND THE LIMIT OF THE STRUCTURE. THE EXISTING ORGANIC SOIL SHOULD BE STRIPPED AND CAN BE STOCKPILED FOR REUSE IN LANDSCAPE AREAS. PROOF ROLL ALL SUBGRADES, UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER. UNSUITABLE AREAS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER. NO FILL FOR STRUCTURE SUPPORT SHALL BE PLACED UNTIL SUBGRADES AND FILL MATERIAL HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- 5. AREAS REQUIRING UNDERCUT AND FILL MATERIAL DUE TO THE PRESENCE OF UNSUITABLE MATERIAL SHALL BE BACKFILLED TO THE DESIGN FOOTING SUBGRADE WITH NEW COMPACTED STRUCTURAL FILL.
- 6. COMPACTED STRUCTURAL FILL FOR STRUCTURE SUPPORT APPROVED FOR USE
- INCLUDE: GRANULAR SOILS INCLUDING GW, GP, GM, SW, SP AND SM CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS). FURTHERMORE, THE MATERIAL TO BE UTILIZED AS STRUCTURAL FILL SHOULD HAVE A PLASTICITY INDEX (PI) LESS THAN 20.
- A MATERIAL UTILIZED FOR STRUCTURAL FILL MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER. IF THERE IS NOT SUFFICIENT FILL MATERIAL ON SITE, CONTRACTOR SHALL TRANSPORT APPROVED BORROW MATERIAL FROM AN OFF SITE SOURCE
- 7. COMPACTED STRUCTURAL FILL BENEATH ALL FOUNDATIONS SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS AND BE COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D-1557, MODIFIED PROCTOR TEST.
- 8. THE EXCAVATION FOR PLACEMENT OF COMPACTED STRUCTURAL FILL SHOULD EXTEND BEYOND THE EDGE OF FOOTINGS A MINIMUM DISTANCE EQUAL TO THE DEPTH OF FILL.
- 9. ALL SUBGRADES AND UNDERCUTS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER. SOILS EXPOSED AT THE BASES OF ALL APPROVED FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHOULD BE PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. SLOPE FOOTING EXCAVATIONS AS REQUIRED FOR STABILITY AND SAFETY OR PROVIDE SHEETING OR SHORING IN ACCORDANCE WITH OSHA REQUIREMENTS.

GENERAL CONDITION NOTES

1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE AND ALLOW FOR EXISTING UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT 'MISS UTILITIES' OF DELMARVA TO LOCATE EXISTING UTILITIES IN THE FIELD. TELEPHONE: 811. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICES. ANY DAMAGE DONE TO THE UTILITIES DUE TO HIS OR HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPETENTLY REPAIRED AT THE CONTRACTORS OWN

2. ALL CONSTRUCTION SHALL BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

3. DUE TO POSSIBLE REPRODUCTION AND MEDIUM DISTORTIONS, SCALED DIMENSIONS ARE NOT TO BE TAKEN FROM THESE DRAWINGS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND VERIFY ALL GRADES AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND MAKE THE PROPER ADJUSTMENTS TO THE PLANS AND DETAILS IF SITE CONDITIONS DO NOT ALLOW THE 'STANDARD' ENTRANCE SIGN TO BE USED.

5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO INITIATION OF CONSTRUCTION AND CONSTRUCT SIGNS IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.

6. ALL CONSTRUCTION LAYOUT SHALL BE PROVIDED BY A DELAWARE PROFESSIONAL LAND SURVEYOR.

7. ALL ± DIMENSIONS ARE CHECK DIMENSIONS.

8. THE CONTRACTOR IS REQUIRED TO EXAMINE THE SITE OF THE WORK PLANS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS FOR THE WORK CONTEMPLATED AND IT WILL BE ASSUMED THAT HE HAS FAMILIARIZED AND SATISFIED HIMSELF AS TO THE CHARACTER, QUALITY AND QUANTITIES OF WORK TO BE PERFORMED AND MATERIALS TO BE FURNISHED AND AS TO THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, NOTES AND CONTRACT DOCUMENTS. HE MUST BE PREPARED TO EXECUTE A FINISHED JOB IN EVERY WAY WITHOUT ANY EXTRA CHARGE WHATSOEVER.

9. THE COMMUNITY IDENTIFICATION SIGN MUST BE LOCATED WITHIN A PUBLIC RIGHT-OF-WAY, A ROAD RIGHT-OF-WAY (IF APPROVED BY DELDOT), OR PROPERTY DEDICATED TO PUBLIC USE. THE COMMUNITY ASSOCIATION MUST OBTAIN REQUIRED DEDICATION PRIOR TO START OF SIGN CONSTRUCTION.

10. SIGN ORDINANCES VARY FROM MUNICIPALITY TO MUNICIPALITY. ACCORDINGLY, ALL SIGNS MUST BE APPROVED BY ALL JURISDICTIONAL APPROVAL AGENCIES PRIOR TO THE START OF CONSTRUCTION.

11. ALL REINFORCING BARS AND OTHER STEEL SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM-A307.

STRUCTURAL SPECIFICATIONS

1. FOOTINGS HAVE BEEN DESIGNED BASED ON AN ASSUMED SOIL BEARING CAPACITY OF 2.000 PSF. CONTRACTOR SHALL VERIFY SUITABILITY OF SUBSOIL FOR THE PROPOSED STRUCTURE AND MAKE NECESSARY ALLOWANCES IF SUBSOIL IS NOT SUITABLE.

2. CONCRETE SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE ACI 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS' LATEST EDITION. FOOTINGS SHALL ACHIEVE 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

PROJECT NOTES:

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL MATERIALS & INSTALLATION TECHNIQUES TO DELDOT PROJECT ENGINEER PRIOR TO START OF CONSTRUCTION.

THIS OPTION MAY ONLY BE USED WHEN SIGN IS LOCATED OUTSIDE OF THE CLEAR ZONE AND APPROVED BY THE DELDOT PROJECT ENGINEER.

ANY TEMPORARY TRAFFIC CONTROL THAT IS REQUIRED FOR THE INSTALLATION OF THIS SIGN SHALL CONFORM TO THE REQUIREMENTS OF PART 6 OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD), INCLUDING ALL REVISIONS THAT HAVE BEEN APPROVED AT THE START OF

STATEMENT OF ACCURACY , MATTHEW SPONG, HEREBY STATE THAT I AM A REGISTERED LANDSCAPE ARCHITECT IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF REPRESENTS GOOD LANDSCAPE ARCHITECTURAL PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

DATE MATTHEW T. SPONG #126-E

PROJECT #: 0563 COMM #: 1209 DATE: 10/07/09 Drawn:CDC Designed By:CDC/MTS Checked By: MTS REVISION: 3.5.10 - 95% Complete 4.30.10 - 100% DelDOT Comments of 4.9.10 6.15.10 - 100% Galvanized Post 7.31.13 - rev. cold galv. specs per DelDOT 3.20.2017 General updates, add Option 7 & Cover Sheet

 \times 6" x 6" Posts

--6'-8" x 36" x 4.08"

Sign Panel

TRIANGLE of

VISIBILITY _

PRIOR TO CONSTRUCTION.

w/ Screws Painted

X 2" X 6" Aluminum Angle Painted

ARTERIAL STREET

PLAN: Identification Sign

SCALE: 1" = 20'-0"

EACH SITE WILL HAVE ACTUAL SITE SPECIFIC SIGHT

TRIANGLE ADDED BY DELDOT PROJECT ENGINEER

SCALE: 3/4" = 1'-0"

provide 4 per sign per face

COMMUNITY TRANSPERTATION FUND SUBDIVISION ENTRANCE SIGN 2017 - 2019 CTF PROJECT #T201709504

ASTM E84

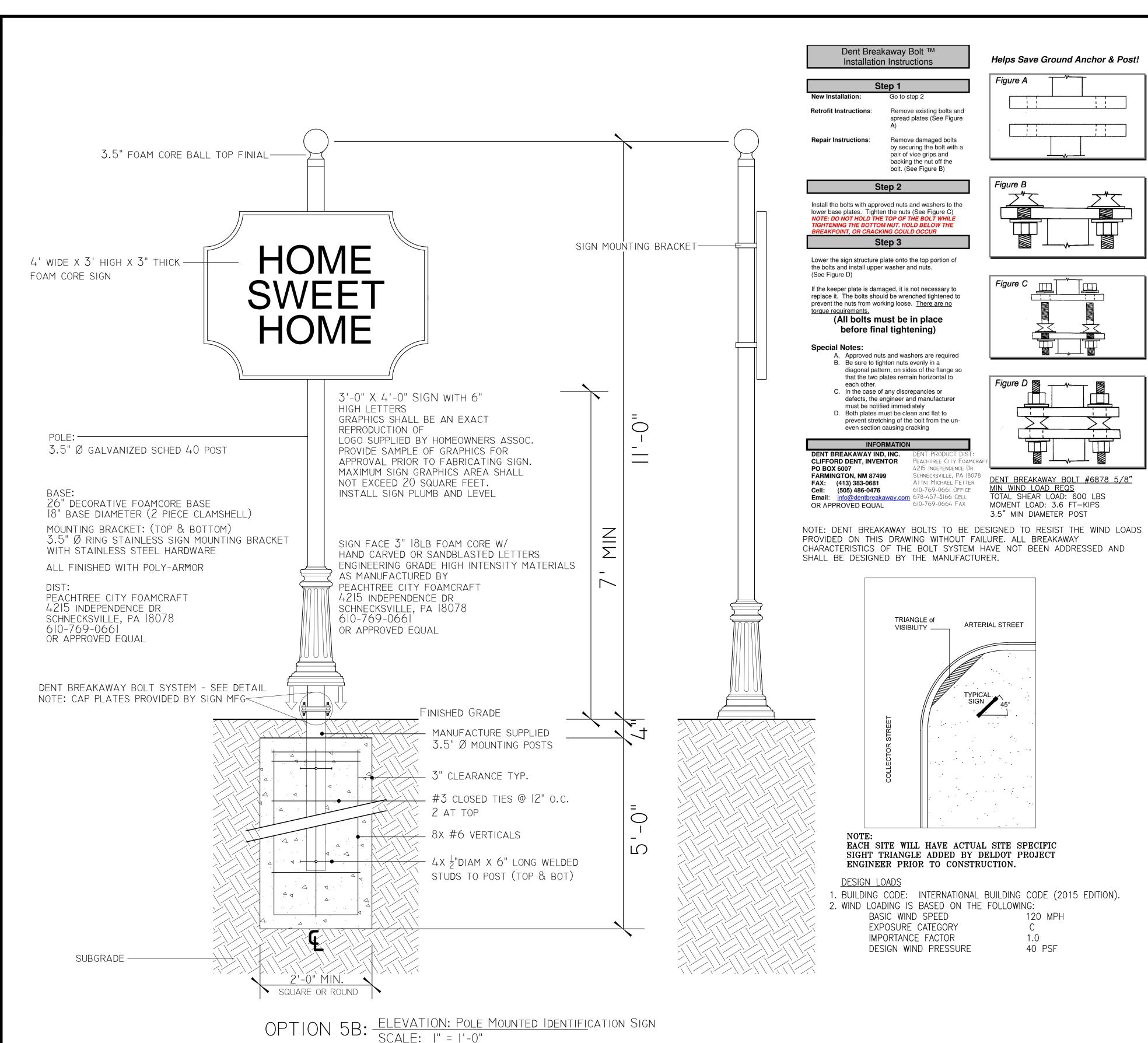
OPTION 4: THE BRANDYWINE CONSTRUCTION DETAILS, SPECIFICATIONS and NOTES



Matthew T. Spong, R.L.A., A.S.L.A. P.O. Box 293 Dover, Delaware 1990; Phone: 302-284-4578 Fax: 302-284-0301 Email: lasmail@las-llc.net Web: las-llc.net

ANDSCAPE ARCHITECTURAL SERVICES, L.L.C S NOT RESPONSIBLE FOR ANY MODIFICATION MADE TO THIS PLAN AND/OR CAD FILE WITHOUT ITS WRITTEN AUTHORIZATION

 \circ †



FOAM CORE SIGN SPECIFICATIONS

1. FOAM CORE SIGN STRUCTURE SHALL BE CAPABLE OF SUSTAINING A STATIC LOAD OF 80 LBS PER SQUARE FOOT (80PSF)

PHONE: 610-769-0661 www.foamcraft.info/monumentsign

2. MANUFACTURER: FABRICATED UNITS SHALL BE FABRICATED BY PEACHTREE CITY FOAM CRAFT, 4215 INDEPENDENCE DR SCHNECKVILLE, PA

(OR APPROVED EQUAL)

3. EXPANDED POLYSTYRENE CORE, (EPS): ASTM C 578 TYPE 1, RIGID CELLULAR THERMAL INSTALLATION FORMED BY EXPANSION OF POLYSTYRENE

- RESIN BEADS OR GRANULES IN A CLOSED CELL, COMPLYING WITH THE FOLLOWING PROPERTIES:

 A. AGE IN BLOCK FORM (PRIOR TO CUFFING) BY AIR—DRYING FOR MINIMUM OF 4 WEEKS OR APPROVED METHODS PRODUCING
 - EQUIVALENT RESULTS.

 B. BOARD DENSITY: MIN DENSITY OF 1.15 LB/CU.FT. ASTM D303.
- DENSITY RANGE 1.15 1.34 ASTM 1622 C. COMPRESSION STRENGTH 10% DEFORMATION 13-18 PSI
- ASTM D1621. D. TENSILE STRENGTH: 18-22 PSI ASTM D1623.
- E. FLEXURAL STRENGTH: 30-38 PSI ASTM C203.
 F. WATER ABSORPTION BY TOTAL IMMERSION: LESS THAN 4% ASTM C272
- G. THERMAL EXPANSION: 0.0000035 IN/IN ASTM D696 H. OXYGEN INDEX: 24% MIN VOLUME ASTM C578.
- I. TEMITE RESISTANCE: PASSED ASTM D3345.
- J. CARPENTER ANT RESISTANCE: PASSED ASTM D3345.

	PULI-ARMUR & 60 MI	LS I LB EXPANDED POLISITRENE	TYPANDED POLISI	
١.	IMPACT RESISTANCE:	$@77^{\circ} F = 500 IN-LBS$	= 500 IN-LBS	
		$@32^{\circ} F = 350 \text{ IN-LBS ASTM G14}$	= 350 IN-LBS AS	
3.	ELONGATION:	@77° F = 400%	= 400%	
		$@32^{\circ} F = 155\%$ ASTM D412	= 155% AS	<u> </u>
`	TENSILE STRENGTH.	@77° F — 3000 PSI	. 3000 PSI	

F. FIRE RETARDANT: @77° F = PASS @32° F = PASS ASTM E84

5. ACRYLIC: TEXTURES FINISH "MASTER WALL BRAND" OR APPROVED EQUAL

6. COLORS SHALL BE SELECTED FROM MFG'S STANDARD COLOR CHART.7. WARRANTY: 5—YEAR WARRANTY ON MATERIALS USED FOR SIGN

8. FABRICATION: FABRICATE SIGNS TO DIMENSIONS, PROFILES AND TEXTURES SHOWN ON THE DRAWINGS

9. INSTALL SIGNS PLUMB AND LEVEL.

10. FOOTINGS HAVE BEEN DESIGNED BASED ON AN ASSUMED SOIL BEARING CAPACITY OF 2.000 PSF. CONTRACTOR SHALL VERIFY SUITABILITY OF SUBSOIL FOR THE PROPOSED STRUCTURE AND MAKE NECESSARY ALLOWANCES IF SUBSOIL IS NOT SUITABLE.

11. CONCRETE SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE ACI 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS' LATEST EDITION. FOOTINGS SHALL ACHIEVE 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

12. STEEL PIPE — TYPE I: ASTM F 1083, STANDARD WEIGHT SCHEDULE 40; MINIMUM YIELD STRENGTH OF 25,000 PSI (170 MPA); SIZES AS INDICATED. HOT DIPPED GALVANIZED WITH MINIMUM AVERAGE 1.8 OZ/FT² (550G/M²) OF COATED SURFACE AREA.

13. ALL REINFORCING BARS AND OTHER STEEL SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM-A307.

14. THE 3½" DIAM MOUNTING POST SHALL BE HOT DIPPED GALVANIZED. THE CAP PLATE AND STUDS MAY BE WELDED ONTO THE POST AFTER HOT DIPPED PPROCESS AND THEN COLD GALVANIZED. WELDS, PLATES, STUDS AND REPAIR OF ANY DAMAGED HOT DIPPED GALVANIZING ON THE POST SHALL BE PREPARED AND COATED ACCORDING TO ASTM A 780.

PROJECT NOTES:

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STATEMENT OF ACCURACY

I, MATTHEW SPONG, HEREBY STATE THAT I AM A REGISTERED LANDSCAPE ARCHITECT IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF REPRESENTS GOOD LANDSCAPE ARCHITECTURAL PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

FOLINDATION

1. PRESUMPTIVE BEARING CAPACITY: 2000 PSF

- 2. CONTRACTOR, AT HIS EXPENSE, SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER LICENSED IN DELAWARE, TO VERIFY THE SUITABILITY OF THE SUBGRADE FOR THE PROPOSED FOUNDATION SYSTEM.
- 3. FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FOOTINGS BEARING ON SUITABLE NATURAL SOILS AND/OR NEW COMPACTED STRUCTURAL FILL.
- 4. ALL ORGANIC MATERIALS, EXCESSIVELY SOFT OR LOOSE SOILS, TREES, ASPHALT, CONCRETE, DEBRIS AND OTHER DELETERIOUS MATERIALS SHOULD BE REMOVED WITHIN AND AT LEAST 5 FEET BEYOND THE LIMIT OF THE STRUCTURE. THE EXISTING ORGANIC SOIL SHOULD BE STRIPPED AND CAN BE STOCKPILED FOR REUSE IN LANDSCAPE AREAS. PROOF ROLL ALL SUBGRADES, UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER. UNSUITABLE AREAS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER. NO FILL FOR STRUCTURE SUPPORT SHALL BE PLACED UNTIL SUBGRADES AND FILL MATERIAL HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- 5. AREAS REQUIRING UNDERCUT AND FILL MATERIAL DUE TO THE PRESENCE OF UNSUITABLE MATERIAL SHALL BE BACKFILLED TO THE DESIGN FOOTING SUBGRADE WITH NEW COMPACTED STRUCTURAL FILL.
- 6. COMPACTED STRUCTURAL FILL FOR STRUCTURE SUPPORT APPROVED FOR USE INCLUDE:
- GRANULAR SOILS INCLUDING GW, GP, GM, SW, SP AND SM CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS). FURTHERMORE, THE MATERIAL TO BE UTILIZED AS STRUCTURAL FILL SHOULD
- HAVE A PLASTICITY INDEX (PI) LESS THAN 20.

 A MATERIAL UTILIZED FOR STRUCTURAL FILL MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER. IF THERE IS NOT SUFFICIENT FILL MATERIAL ON SITE, CONTRACTOR SHALL TRANSPORT APPROVED BORROW MATERIAL FROM AN
- OFF SITE SOURCE.

 7. COMPACTED STRUCTURAL FILL BENEATH ALL FOUNDATIONS SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS AND BE COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D-1557, MODIFIED PROCTOR TEST.
- 8. THE EXCAVATION FOR PLACEMENT OF COMPACTED STRUCTURAL FILL SHOULD EXTEND BEYOND THE EDGE OF FOOTINGS A MINIMUM DISTANCE EQUAL TO THE DEPTH OF FILL.
- 9. ALL SUBGRADES AND UNDERCUTS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER. SOILS EXPOSED AT THE BASES OF ALL APPROVED FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHOULD BE PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. SLOPE FOOTING EXCAVATIONS AS REQUIRED FOR STABILITY AND SAFETY OR PROVIDE SHEETING OR SHORING IN ACCORDANCE WITH OSHA REQUIREMENTS.

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10. SIGN ORDINANCES VARY FROM MUNICIPALITY TO MUNICIPALITY. ACCORDINGLY, ALL SIGNS MUST BE APPROVED BY ALL JURISDICTIONAL APPROVAL AGENCIES PRIOR TO THE START OF CONSTRUCTION.

PROJECT #: 0563 COMM #: 1209 DATE: 10/07/09

Drawn:CDC Designed By:CDC/MTS Checked By: MTS

REVISION: 3.5.10 - 95% Complete

4.30.10 - 100% DelDOT Comments of 4.9.10

6.15.10 - 100% Galvanized Post

7.31.13 - rev. cold galv. specs per DelDOT

3.20.2017 General updates, add Option 7 & Cover Sheet

COMMUNITY TRANSPERTATION FUND SUBDIVISION ENTRANCE SIGN 2017 - 2019 CTF PROJECT #T201709504

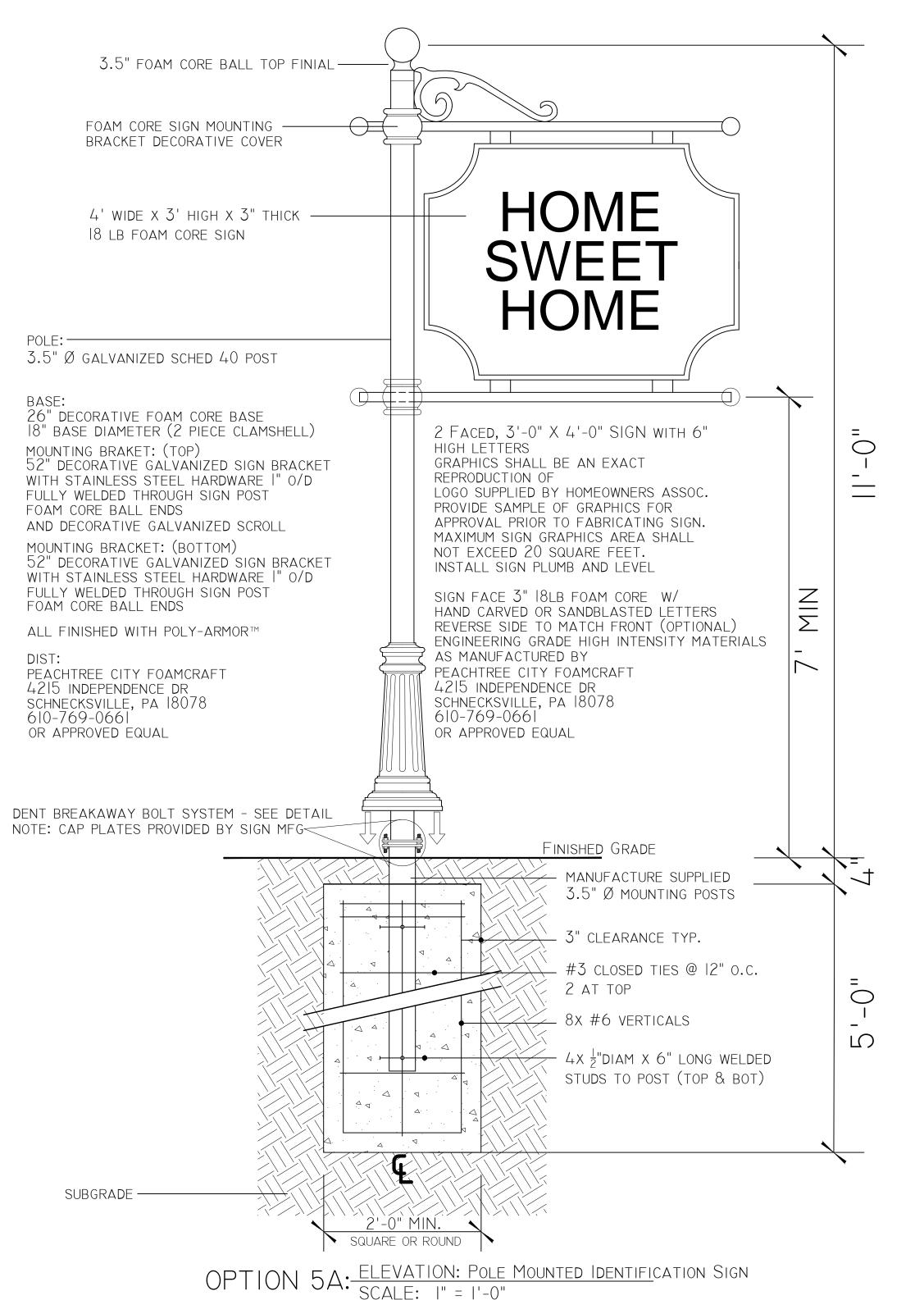
OPTION 5: THE LEWES
CONSTRUCTION DETAILS, SPECIFICATIONS and NOTES



Matthew T. Spong, R.L.A., A.S.L.A.
Trisha Sawicki, A.S.L.A.
P.O. Box 293 Dover, Delaware 19903
Phone: 302-284-4578 Fax: 302-284-0301
Email: lasmail@las-llc.net Web: las-llc.net

LANDSCAPE ARCHITECTURAL SERVICES, L.L.C IS NOT RESPONSIBLE FOR ANY MODIFICATION MADE TO THIS PLAN AND/OR CAD FILE WITHOUT ITS WRITTEN AUTHORIZATION.

5 of 8



Dent Breakaway Bolt ™ Helps Save Ground Anchor & Post! Installation Instructions Figure A

Retrofit Instructions: Remove existing bolts and spread plates (See Figure Repair Instructions: Remove damaged bolts by securing the bolt with a pair of vice grips and backing the nut off the

bolt. (See Figure B)

Step 2 Install the bolts with approved nuts and washers to the lower base plates. Tighten the nuts (See Figure C) NOTE: DO NOT HOLD THE TOP OF THE BOLT WHILE GHTENING THE BOTTOM NUT. HOLD BELOW THE REAKPOINT, OR CRACKING COULD OCCUR Step 3

Lower the sign structure plate onto the top portion of the bolts and install upper washer and nuts. (See Figure D)

If the keeper plate is damaged, it is not necessary to replace it. The bolts should be wrenched tightened to prevent the nuts from working loose. There are no torque requirements. (All bolts must be in place before final tightening)

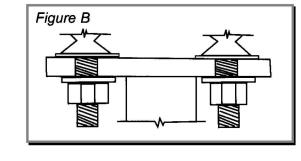
- A. Approved nuts and washers are required B. Be sure to tighten nuts evenly in a diagonal pattern, on sides of the flange so that the two plates remain horizontal to each other.
- C. In the case of any discrepancies or defects, the engineer and manufacturer D. Both plates must be clean and flat to

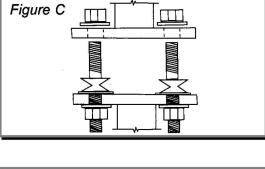
prevent stretching of the bolt from the un-

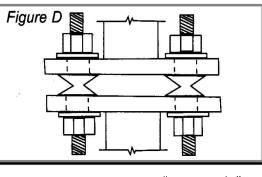
even section causing cracking INFORMATION DENT BREAKAWAY IND. INC **CLIFFORD DENT. INVENTOR** EACHTREE CITY FOAMC PO BOX 6007 **FARMINGTON, NM 87499** FAX: (413) 383-0681

Cell: (505) 486-0476

4215 INDEPENDENCE DR SCHNECKSVILLE, PA 18078 ATTN: MICHAEL FETTER 610-769-0661 OFFICE Email: info@dentbreakaway.com 678-457-3166 CELL OR APPROVED EQUAL 610-769-0664 FAX

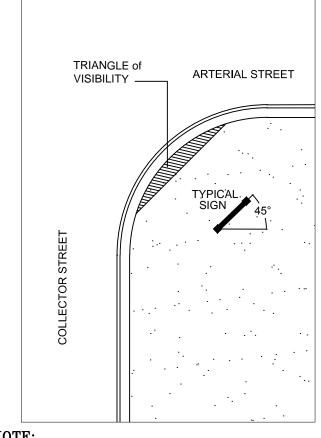






DENT BREAKAWAY BOLT #6878 5/8' <u>MIN WIND LOAD REQS</u> TOTAL SHEAR LOAD: 600 LBS MOMENT LOAD: 3.6 FT-KIPS 3.5" MIN DIAMETER POST

NOTE: DENT BREAKAWAY BOLTS TO BE DESIGNED TO RESIST THE WIND LOADS PROVIDED ON THIS DRAWING WITHOUT FAILURE. ALL BREAKAWAY CHARACTERISTICS OF THE BOLT SYSTEM HAVE NOT BEEN ADDRESSED AND SHALL BE DESIGNED BY THE MANUFACTURER.



EACH SITE WILL HAVE ACTUAL SITE SPECIFIC SIGHT TRIANGLE ADDED BY DELDOT PROJECT ENGINEER PRIOR TO CONSTRUCTION.

DESIGN LOADS

1. BUILDING CODE: INTERNATIONAL BUILDING CODE (2015 EDITION). 2. WIND LOADING IS BASED ON THE FOLLOWING:

BASIC WIND SPEED 120 MPH EXPOSURE CATEGORY IMPORTANCE FACTOR 1.0 40 PSF DESIGN WIND PRESSURE

FOAM CORE SIGN SPECIFICATIONS

1. FOAM CORE SIGN STRUCTURE SHALL BE CAPABLE OF SUSTAINING A STATIC LOAD OF 80 LBS PER SQUARE FOOT (80PSF)

2. MANUFACTURER: FABRICATED UNITS SHALL BE FABRICATED BY PEACHTREE CITY FOAM CRAFT, 4215 INDEPENDENCE DR SCHNECKVILLE, PA PHONE: 610-769-0661 www.foamcraft.info/monumentsign (OR APPROVED EQUAL)

3. EXPANDED POLYSTYRENE CORE, (EPS): ASTM C 578 TYPE 1, RIGID CELLULAR THERMAL INSTALLATION FORMED BY EXPANSION OF POLYSTYRENE RESIN BEADS OR GRANULES IN A CLOSED CELL, COMPLYING WITH THE FOLLOWING PROPERTIES:

- A. AGE IN BLOCK FORM (PRIOR TO CUFFING) BY AIR-DRYING FOR MINIMUM OF 4 WEEKS OR APPROVED METHODS PRODUCING
- EQUIVALENT RESULTS. B. BOARD DENSITY: MIN DENSITY OF 1.15 LB/CU.FT. ASTM D303. DENSITY RANGE 1.15 - 1.34 ASTM 1622
- C. COMPRESSION STRENGTH 10% DEFORMATION 13-18 PSI ASTM D1621.
- D. TENSILE STRENGTH: 18-22 PSI ASTM D1623. E. FLEXURAL STRENGTH: 30-38 PSI ASTM C203.
- F. WATER ABSORPTION BY TOTAL IMMERSION: LESS THAN 4% ASTM C272 G. THERMAL EXPANSION: 0.0000035 IN/IN ASTM D696
- H. OXYGEN INDEX: 24% MIN VOLUME ASTM C578. I. TEMITE RESISTANCE: PASSED ASTM D3345.
- J. CARPENTER ANT RESISTANCE: PASSED ASTM D3345.

4. POLY-ARMOR @ 60 MILS 1 LB EXPANDED POLYSTYRENE A. IMPACT RESISTANCE: @77° F = 500 IN-LBS

		$@32^{\circ} F = 350 \text{ IN-LBS}$	ASIM	G14
В.	ELONGATION:	@77° F = 400%		
		@32°F = 155%	ASTM	D412
C.	TENSILE STRENGTH:	@77° F = 3000 PSI		
		$@32^{\circ} F = 2200 PSI$	ASTM	D412
D.	TEAR STRENGTH:	$@77^{\circ} F = 250 PLI$		
		$@32^{\circ} F = 150 PLI$	ASTM	D624
E.	FLEXIBILITY:	@77° F = PASS		
		@32° F = PASS	ASTM	D522
F.	FIRE RETARDANT:	@77° F = PASS		
		@32° F = PASS	ASTM	E84

5. ACRYLIC: TEXTURES FINISH "MASTER WALL BRAND" OR APPROVED EQUAL

6. COLORS SHALL BE SELECTED FROM MFG'S STANDARD COLOR CHART.

7. WARRANTY: 5-YEAR WARRANTY ON MATERIALS USED FOR SIGN FABRICATION

8. FABRICATION: FABRICATE SIGNS TO DIMENSIONS, PROFILES AND TEXTURES SHOWN ON THE DRAWINGS

9. INSTALL SIGNS PLUMB AND LEVEL

10. FOOTINGS HAVE BEEN DESIGNED BASED ON AN ASSUMED SOIL BEARING CAPACITY OF 2.000 PSF. CONTRACTOR SHALL VERIFY SUITABILITY OF SUBSOIL FOR THE PROPOSED STRUCTURE AND MAKE NECESSARY ALLOWANCES IF SUBSOIL IS NOT SUITABLE.

11. CONCRETE SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE ACI 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS' LATEST EDITION. FOOTINGS SHALL ACHIEVE 3,000 PSI COMPRESSIVE STRENGTH AT 28

12. STEEL PIPE - TYPE I: ASTM F 1083, STANDARD WEIGHT SCHEDULE 40; MINIMUM YIELD STRENGTH OF 25,000 PSI (170 MPA); SIZES AS INDICATED. HOT DIPPED GALVANIZED WITH MINIMUM AVERAGE 1.8 OZ/FT2 (550G/M2) OF COATED SURFACE AREA.

13. ALL REINFORCING BARS AND OTHER STEEL SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM-A307.

14. THE 3 1 DIAM MOUNTING POST SHALL BE HOT DIPPED GALVANIZED. THE CAP PLATE AND STUDS MAY BE WELDED ONTO THE POST AFTER HOT DIPPED PPROCESS AND THEN COLD GALVANIZED. WELDS, PLATES, STUDS AND REPAIR OF ANY DAMAGED HOT DIPPED GALVANIZING ON THE POST SHALL BE PREPARED AND COATED ACCORDING TO ASTM A 780.

PROJECT NOTES:

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL MATERIALS & INSTALLATION TECHNIQUES TO DELDOT PROJECT ENGINEER PRIOR TO START OF CONSTRUCTION.

THIS OPTION MAY ONLY BE USED WHEN SIGN IS LOCATED OUTSIDE OF THE CLEAR ZONE AND APPROVED BY THE DELDOT PROJECT ENGINEER.

ANY TEMPORARY TRAFFIC CONTROL THAT IS REQUIRED FOR THE INSTALLATION OF THIS SIGN SHALL CONFORM TO THE REQUIREMENTS OF PART 6 OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD), INCLUDING ALL REVISIONS THAT HAVE BEEN APPROVED AT THE START OF CONSTRUCTION.

1. PRESUMPTIVE BEARING CAPACITY: 2000 PSF

- 2. CONTRACTOR, AT HIS EXPENSE, SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER LICENSED IN DELAWARE, TO VERIFY THE SUITABILITY OF THE SUBGRADE FOR THE PROPOSED FOUNDATION SYSTEM
- 3. FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FOOTINGS BEARING ON

SUITABLE NATURAL SOILS AND/OR NEW COMPACTED STRUCTURAL FILL.

- 4. ALL ORGANIC MATERIALS, EXCESSIVELY SOFT OR LOOSE SOILS, TREES, ASPHALT, CONCRETE, DEBRIS AND OTHER DELETERIOUS MATERIALS SHOULD BE REMOVED WITHIN AND AT LEAST 5 FEET BEYOND THE LIMIT OF THE STRUCTURE. THE EXISTING ORGANIC SOIL SHOULD BE STRIPPED AND CAN BE STOCKPILED FOR REUSE IN LANDSCAPE AREAS. PROOF ROLL ALL SUBGRADES, UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER. UNSUITABLE AREAS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER. NO FILL FOR STRUCTURE SUPPORT SHALL BE PLACED UNTIL SUBGRADES AND FILL MATERIAL HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- 5. AREAS REQUIRING UNDERCUT AND FILL MATERIAL DUE TO THE PRESENCE OF UNSUITABLE MATERIAL SHALL BE BACKFILLED TO THE DESIGN FOOTING SUBGRADE WITH NEW COMPACTED STRUCTURAL FILL.
- 6. COMPACTED STRUCTURAL FILL FOR STRUCTURE SUPPORT APPROVED FOR USE

GRANULAR SOILS INCLUDING GW, GP, GM, SW, SP AND SM CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS). FURTHERMORE. THE MATERIAL TO BE UTILIZED AS STRUCTURAL FILL SHOULD HAVE A PLASTICITY INDEX (PI) LESS THAN 20. A MATERIAL UTILIZED FOR STRUCTURAL FILL MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER. IF THERE IS NOT SUFFICIENT FILL MATERIAL ON

SITE. CONTRACTOR SHALL TRANSPORT APPROVED BORROW MATERIAL FROM AN OFF SITE SOURCE. 7. COMPACTED STRUCTURAL FILL BENEATH ALL FOUNDATIONS SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS AND BE COMPACTED TO

95 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D-1557. MODIFIED PROCTOR TEST. 8. THE EXCAVATION FOR PLACEMENT OF COMPACTED STRUCTURAL FILL SHOULD EXTEND BEYOND THE EDGE OF FOOTINGS A MINIMUM DISTANCE EQUAL TO THE DEPTH OF FILL.

9. ALL SUBGRADES AND UNDERCUTS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER. SOILS EXPOSED AT THE BASES OF ALL APPROVED FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHOULD BE PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. SLOPE FOOTING EXCAVATIONS AS REQUIRED FOR STABILITY AND SAFETY OR PROVIDE SHEETING OR SHORING IN ACCORDANCE

GENERAL CONDITION NOTES

WITH OSHA REQUIREMENTS.

1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE AND ALLOW FOR EXISTING UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT 'MISS UTILITIES' OF DELMARVA TO LOCATE EXISTING UTILITIES IN THE FIELD. TELEPHONE: 811. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICES. ANY DAMAGE DONE TO THE UTILITIES DUE TO HIS OR HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPETENTLY REPAIRED AT THE CONTRACTORS OWN EXPENSE.

2. ALL CONSTRUCTION SHALL BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

3. DUE TO POSSIBLE REPRODUCTION AND MEDIUM DISTORTIONS. SCALED DIMENSIONS ARE NOT TO BE TAKEN FROM THESE DRAWINGS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND VERIFY ALL GRADES AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND MAKE THE PROPER ADJUSTMENTS TO THE PLANS AND DETAILS IF SITE CONDITIONS DO NOT ALLOW THE 'STANDARD' ENTRANCE SIGN TO BE USED.

5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO INITIATION OF CONSTRUCTION AND CONSTRUCT SIGNS IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.

6. ALL CONSTRUCTION LAYOUT SHALL BE PROVIDED BY A DELAWARE

PROFESSIONAL LAND SURVEYOR.

7. ALL ± DIMENSIONS ARE CHECK DIMENSIONS.

8. THE CONTRACTOR IS REQUIRED TO EXAMINE THE SITE OF THE WORK, PLANS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS FOR THE WORK CONTEMPLATED AND IT WILL BE ASSUMED THAT HE HAS FAMILIARIZED AND SATISFIED HIMSELF AS TO THE CHARACTER, QUALITY AND QUANTITIES OF WORK TO BE PERFORMED AND MATERIALS TO BE FURNISHED AND AS TO THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, NOTES AND CONTRACT DOCUMENTS. HE MUST BE PREPARED TO EXECUTE A FINISHED JOB IN EVERY WAY WITHOUT ANY EXTRA CHARGE WHATSOEVER.

9. THE COMMUNITY IDENTIFICATION SIGN MUST BE LOCATED WITHIN A PUBLIC RIGHT-OF-WAY, A ROAD RIGHT-OF-WAY (IF APPROVED BY DELDOT), OR PROPERTY DEDICATED TO PUBLIC USE. THE COMMUNITY ASSOCIATION MUST OBTAIN REQUIRED DEDICATION PRIOR TO START OF SIGN CONSTRUCTION.

10. SIGN ORDINANCES VARY FROM MUNICIPALITY TO MUNICIPALITY. ACCORDINGLY, ALL SIGNS MUST BE APPROVED BY ALL JURISDICTIONAL APPROVAL AGENCIES PRIOR TO THE START OF CONSTRUCTION.

I, MATTHEW SPONG, HEREBY STATE THAT I AM A REGISTERED LANDSCAPE ARCHITECT IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF REPRESENTS GOOD LANDSCAPE ARCHITECTURAL PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

DATE MATTHEW T. SPONG #126-E

PROJECT #: 0563 COMM #: 1209 DATE: 10/07/09 Drawn:CDC Designed By:CDC/MTS Checked By: MTS REVISION: 3.5.10 - 95% Complete 4.30.10 - 100% DelDOT Comments of 4.9.10 6.15.10 - 100% Galvanized Post 7.31.13 - rev. cold galv. specs per DelDOT 3.20.2017 General updates, add Option 7 & Cover Sheet

COMMUNITY TRANSPERTATION FUND SUBDIVISION ENTRANCE SIGN 2017 - 2019 CTF PROJECT #T201709504

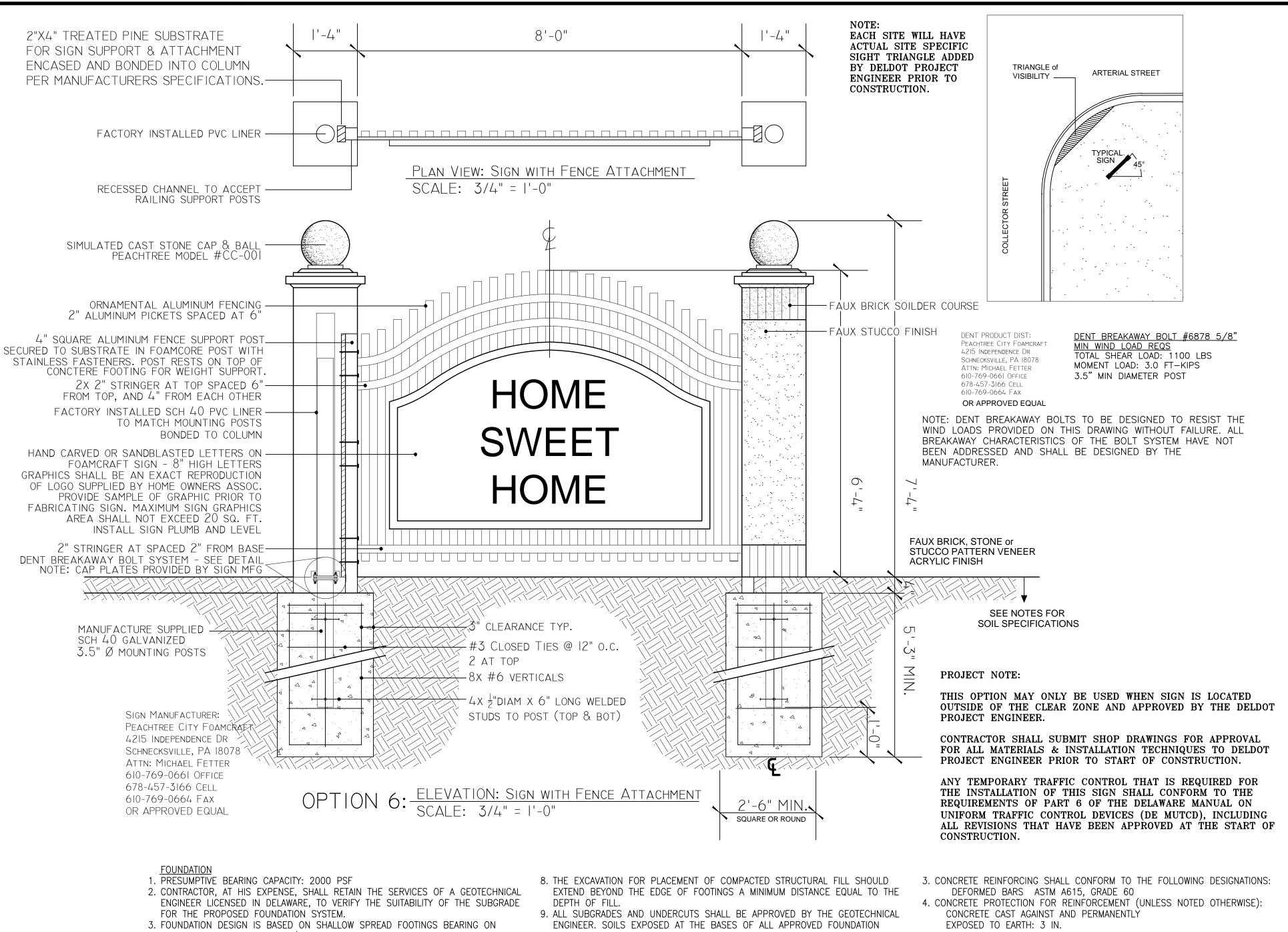
OPTION 6: THE ODESSA CONSTRUCTION DETAILS, SPECIFICATIONS and NOTES



Matthew T. Spong, R.L.A., A.S.L.A. P.O. Box 293 Dover Delaware 1990: Phone: 302-284-4578 Fax: 302-284-0301 Email: lasmail@las-llc.net Web: las-llc.net

ANDSCAPE ARCHITECTURAL SERVICES, L.L.C S NOT RESPONSIBLE FOR ANY MODIFICATION MADE TO THIS PLAN AND/OR CAD FILE WITHOUT ITS WRITTEN AUTHORIZATION

01



SUITABLE NATURAL SOILS AND/OR NEW COMPACTED STRUCTURAL FILL.

4. ALL ORGANIC MATERIALS, EXCESSIVELY SOFT OR LOOSE SOILS, TREES, ASPHALT, CONCRETE, DEBRIS AND OTHER DELETERIOUS MATERIALS SHOULD BE REMOVED WITHIN AND AT LEAST 5 FEET BEYOND THE LIMIT OF THE STRUCTURE. THE EXISTING ORGANIC SOIL SHOULD BE STRIPPED AND CAN BE STOCKPILED FOR REUSE IN LANDSCAPE AREAS. PROOF ROLL ALL SUBGRADES, UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER. UNSUITABLE AREAS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER. NO FILL FOR STRUCTURE SUPPORT SHALL BE PLACED UNTIL SUBGRADES AND FILL MATERIAL HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.

5. AREAS REQUIRING UNDERCUT AND FILL MATERIAL DUE TO THE PRESENCE OF UNSUITABLE MATERIAL SHALL BE BACKFILLED TO THE DESIGN FOOTING SUBGRADE WITH NEW COMPACTED STRUCTURAL FILL.

6. COMPACTED STRUCTURAL FILL FOR STRUCTURE SUPPORT APPROVED FOR USE

GRANULAR SOILS INCLUDING GW, GP, GM, SW, SP AND SM CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS). FURTHERMORE, THE MATERIAL TO BE UTILIZED AS STRUCTURAL FILL SHOULD HAVE A PLASTICITY INDEX (PI) LESS THAN 20. A MATERIAL UTILIZED FOR STRUCTURAL FILL MUST BE APPROVED BY THE

GEOTECHNICAL ENGINEER. IF THERE IS NOT SUFFICIENT FILL MATERIAL ON SITE, CONTRACTOR SHALL TRANSPORT APPROVED BORROW MATERIAL FROM AN

7. COMPACTED STRUCTURAL FILL BENEATH ALL FOUNDATIONS SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS AND BE COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D-1557, MODIFIED PROCTOR TEST. MAXIMUM SLUMP = 4"

EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST, SURFACE RUNOFF POND. FOUNDATION EXCAVATIONS SHOULD BE PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. SLOPE FOOTING EXCAVATIONS AS REQUIRED FOR STABILITY AND SAFETY OR PROVIDE SHEETING OR SHORING IN ACCORDANCE WITH OSHA REQUIREMENTS.

DESIGN LOADS

2. WIND LOADING IS BASED ON THE FOLLOWING:

BASIC WIND SPEED **EXPOSURE CATEGORY** IMPORTANCE FACTOR DESIGN WIND PRESSURE

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 318 (LATEST EDITION). 2. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE:

ALL CONC. TO BE NORMAL WEIGHT UNLESS NOTED OTHERWISE. ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED (6 ±1)% PER ASTM C260. MAXIMUM WATER/CEMENT RATIO = 0.50 FOR 3000 PSI CONC.

SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO

1. BUILDING CODE: INTERNATIONAL BUILDING CODE (2015 EDITION).

120 MPH 35 PSF

CONCRETE

FOOTINGS: 3000 PSI

5. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.

1. STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION

DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION.

2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS: ROUND PIPE: ASTM A53, TYPE E OR S STEEL BARS, ANGLES & PLATES: ASTM A36, U.N.O.

ANCHOR BOLTS: ASTM A307 3. ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION.

ELECTRODES SHALL BE E70XX. 4. GALVANIZE: ASTM A123 FOR SHAPES AND ASSEMBLIES, ASTM A153 FOR FASTENERS.

USE GALVANIZED FASTENERS WHEN CONNECTING GALVANIZED MEMBERS.

5. ANCHOR BOLT AND BASE PLATE DESIGN TO BE BY DENT BREAKAWAY BOLT MANUF

FOR ORNAMENTAL ALUMINUM FENCING & GATE NOTES FENCE SHALL BE STORRS COMMERCIAL GRADE (SC) BRONZE COLOR. MFG. AND ACCESSORIES MANUFACTURED BY:

P.O. BOX 6308, 129 LEEDER DRIVE HAMDEN HAMDEN, CT 06517 PHONE: 1-800-243-6256 OR APPROVED EQUAL

DIST: MERCHANT METAL HYATTSVILLE, MARYLAND PHONE: 1-301-779-8300 ATTN: BOB CONROY

PICKETS: .75" X .75" X 0.50 WALL STRINGERS: 1.625" X 1.000" X 1.625" SIDEWALLS 0.090 TOPWALL 0.065 POSTS: 2.5" X 2.5" X 0.075 WALL GATE POSTS: 4" X 4" X 0.125" WALL

OR APPROVED EQUAL

PROVIDE ALL ACCESSORIES REQUIRED INCLUDING WALL CONNECTOR HINGES. WALL CONNECTORS FOR ATTACHING FENCE SECTIONS TO STONE COLUMNS 4 CONNECTORS REQUIRED AT EACH CONNECTION.

CONNECTORS SHALL BE COMMERCIAL WALL MOUNT MODEL #100-220 AT 90' CONNECTIONS COMMERCIAL SWIVEL MOUNT MODEL #100-331 AT OTHER CONNECTIONS SET GATES & FENCES PLUMB & LEVEL EXCEPT AS NOTED FOR GRADE CHANGE.

A. ALUMINUM EXTRUSION SHALL BE MADE OF 6063-T-5 IN ACCORDANCE WITH ASTM B221 B. FASTENERS: ALL SCREWS SHALL BE 302 STAINLESS SELF-DRILLING HEADS. ALL SCREWS SHALL BE PAINTED TO MATCH FENCE FINISH. C. ALUMINUM CASTINGS SHALL BE USED FOR ALL POST CAPS, FINIALS, ETC. HINGES & LATCHES SHALL BE FABRICATED FROM ALUMINUM EXTRUSIONS WITH STAINLESS STEEL

D. FINISH SHALL BE COATED WITH 'POLYCOLOR' PREMIUM HIGH SOLIDS ACRYLIC COATING WHICH EXCEEDS AAMA 603.8 APPLIED ELECTROSTATICALLY AT 375 DEGREES F - BLACK

E. INSTALL IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS. F. SUBMIT MANUFACTURE'S LITERATURE & SHOP DRAWINGS TO PROJECT ENGINEER FOR APPROVAL PRIOR TO INITIATION OF CONSTRUCTION.

PREPARATION:

PREPARE THE GRADE AND REMOVE SURFACE IRREGULARITIES. IF ANY, WHICH MAY CAUSE INTERFERENCE WITH THE INSTALLATION OF ALUMINUM FENCE.

A. SET FENCE POSTS AT 8'-0" ON CENTER MAXIMUM, SET GATE POSTS FOR GATE OPENINGS SPECIFIED IN THE CONSTRUCTION DRAWINGS. B. INSERT STRINGERS ENDS INTO PREPUNCHED POSTS AND FASTEN WITH TEK SCREWS. C. CENTER AND ALIGN POSTS. PLACE CONCRETE AROUND POSTS, AND VIBRATE TO TAMP FOR CONSOLIDATION. RECHECK VERTICAL AND TOP ALIGNMENT OF POSTS, AND MAKE NECESSARY CORRECTIONS. D. INSTALL GATES PLUMB, LEVEL AND SECURE FOR FULL OPENING WITHOUT INTERFERENCE. FOR DOUBLE GATES, INSTALL DROP ROD. ADJUST ALL HARDWARE FOR SMOOTH OPERATION.

CONTRACTOR SHALL CLEAN JOB SITE OF EXCESS MATERIALS; POST HOLE EXCAVATIONS SHALL BE SCATTERED UNIFORMLY AWAY FROM POST. CLEAN ALUMINUM FENCE WITH MILD HOUSEHOLD DETERGENT AND CLEAN WATER, RINSE WELL. MORTAR SHOULD BE REMOVED FROM EXPOSED POST USING 10% SOLUTION OF MURIATIC ACID FOLLOWED IMMEDIATELY BY SEVERAL RINSES WITH CLEAN WATER.

GENERAL CONDITION NOTES

1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE AND ALLOW FOR EXISTING UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT 'MISS UTILITIES' OF DELMARVA TO LOCATE EXISTING UTILITIES IN THE FIELD. TELEPHONE: 811. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICES. ANY DAMAGE DONE TO THE UTILITIES DUE TO HIS OR HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPETENTLY REPAIRED AT THE CONTRACTORS OWN

2. ALL CONSTRUCTION SHALL BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

3. DUE TO POSSIBLE REPRODUCTION AND MEDIUM DISTORTIONS, SCALED DIMENSIONS ARE NOT TO BE TAKEN FROM THESE DRAWINGS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND VERIFY ALL GRADES AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND MAKE THE PROPER ADJUSTMENTS TO THE PLANS AND DETAILS IF SITE CONDITIONS DO NOT ALLOW THE 'STANDARD' ENTRANCE SIGN TO

5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO INITIATION OF CONSTRUCTION AND CONSTRUCT SIGNS IN ACCORDANCE WITH LOCAL CODES

6. ALL CONSTRUCTION LAYOUT SHALL BE PROVIDED BY A DELAWARE PROFESSIONAL LAND

7. ALL ± DIMENSIONS ARE CHECK DIMENSIONS.

8. THE CONTRACTOR IS REQUIRED TO EXAMINE THE SITE OF THE WORK , PLANS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS FOR THE WORK CONTEMPLATED AND IT WILL BE ASSUMED THAT HE HAS FAMILIARIZED AND SATISFIED HIMSELF AS TO THE CHARACTER, QUALITY AND QUANTITIES OF WORK TO BE PERFORMED AND MATERIALS TO BE FURNISHED AND AS TO THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, NOTES AND CONTRACT DOCUMENTS. HE MUST BE PREPARED TO EXECUTE A FINISHED JOB IN EVERY WAY WITHOUT ANY EXTRA CHARGE WHATSOEVER.

9. THE COMMUNITY IDENTIFICATION SIGN MUST BE LOCATED WITHIN A PUBLIC RIGHT-OF-WAY, A ROAD RIGHT-OF-WAY (IF APPROVED BY DELDOT), OR PROPERTY DEDICATED TO PUBLIC USE. THE COMMUNITY ASSOCIATION MUST OBTAIN REQUIRED DEDICATION PRIOR TO START OF SIGN CONSTRUCTION.

10. SIGN ORDINANCES VARY FROM MUNICIPALITY TO MUNICIPALITY. ACCORDINGLY, ALL SIGNS MUST BE APPROVED BY ALL JURISDICTIONAL APPROVAL AGENCIES PRIOR TO THE START OF

FOAM CORE SIGN SPECIFICATIONS

1. FOAM CORE SIGN STRUCTURE SHALL BE CAPABLE OF SUSTAINING A STATIC LOAD OF 80 LBS PER SQUARE FOOT (80PSF)

2. MANUFACTURER: FABRICATED UNITS SHALL BE FABRICATED BY PEACHTREE CITY FOAM CRAFT, 4215 INDEPENDENCE DR SCHNECKVILLE, PA PHONE: 610-769-0661 www.foamcraft.info/monumentsign (OR APPROVED EQUAL)

3. EXPANDED POLYSTYRENE CORE, (EPS): ASTM C 578 TYPE 1, RIGID CELLULAR THERMAL INSTALLATION FORMED BY EXPANSION OF POLYSTYRENE RESIN BEADS OR GRANULES IN A CLOSED CELL. COMPLYING WITH THE

FOLLOWING PROPERTIES: A. AGE IN BLOCK FORM (PRIOR TO CUFFING) BY AIR-DRYING FOR MINIMUM OF 4 WEEKS OR APPROVED METHODS PRODUCING

EQUIVALENT RESULTS B. BOARD DENSITY: MIN DENSITY OF 1.15 LB/CU.FT. ASTM D303.

DENSITY RANGE 1.15 - 1.34 ASTM 1622 C. COMPRESSION STRENGTH 10% DEFORMATION 13-18 PSI

ASTM D1621. D. TENSILE STRENGTH: 18-22 PSI ASTM D1623.

E. FLEXURAL STRENGTH: 30-38 PSI ASTM C203.

F. WATER ABSORPTION BY TOTAL IMMERSION: LESS THAN 4% ASTM C272

G. THERMAL EXPANSION: 0.0000035 IN/IN ASTM D696 H. OXYGEN INDEX: 24% MIN VOLUME ASTM C578.

I. TEMITE RESISTANCE: PASSED ASTM D3345. J. CARPENTER ANT RESISTANCE: PASSED ASTM D3345.

4. POLY-ARMOR @ 60 MILS 1 LB EXPANDED POLYSTYRENE A. IMPACT RESISTANCE: @77° F = 500 IN-LBS

 $@32^{\circ} F = 350 \text{ IN-LBS ASTM G14}$ $@77^{\circ} F = 400\%$ B. ELONGATION: @32° F = 155% ASTM D412 C. TENSILE STRENGTH: @77° F = 3000 PSI $@32^{\circ} F = 2200 PSI$ ASTM D412 $@77^{\circ} F = 250 PLI$ D. TEAR STRENGTH: $@32^{\circ} F = 150 PLI$ ASTM D624 $@77^{\circ} F = PASS$ E. FLEXIBILITY: $@32^{\circ} F = PASS$ ASTM D522 $@77^{\circ} F = PASS$ F. FIRE RETARDANT: ASTM E84 $@32^{\circ} F = PASS$

5. ACRYLIC: TEXTURES FINISH "MASTER WALL BRAND" OR APPROVED EQUAL

6. COLORS SHALL BE SELECTED FROM MFG'S STANDARD COLOR CHART.

7. WARRANTY: 5-YEAR WARRANTY ON MATERIALS USED FOR SIGN

8. FABRICATION: FABRICATE SIGNS TO DIMENSIONS, PROFILES AND TEXTURES SHOWN ON THE DRAWINGS

9. INSTALL SIGNS PLUMB AND LEVEL

10. FOOTINGS HAVE BEEN DESIGNED BASED ON AN ASSUMED SOIL BEARING CAPACITY OF 2.000 PSF. CONTRACTOR SHALL VERIFY SUITABILITY OF SUBSOIL FOR THE PROPOSED STRUCTURE AND MAKE NECESSARY ALLOWANCES IF SUBSOIL IS NOT SUITABLE.

11. CONCRETE SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE ACI 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS' LATEST EDITION. FOOTINGS SHALL ACHIEVE 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

12. STEEL PIPE - TYPE I: ASTM F 1083, STANDARD WEIGHT SCHEDULE 40: MINIMUM YIELD STRENGTH OF 25.000 PSI (170 MPA): SIZES AS INDICATED. HOT DIPPED GALVANIZED WITH MINIMUM AVERAGE 1.8 OZ/FT² (550G/M²) OF COATED SURFACE AREA.

13. ALL REINFORCING BARS AND OTHER STEEL SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM-A307.

14. THE 3 $\frac{1}{2}$ " DIAM MOUNTING POST SHALL BE HOT DIPPED GALVANIZED. THE CAP PLATE AND STUDS MAY BE WELDED ONTO THE POST AFTER HOT DIPPED PPROCESS AND THEN COLD GALVANIZED. WELDS, PLATES, STUDS AND REPAIR OF ANY DAMAGED HOT DIPPED GALVANIZING ON THE POST SHALL BE PREPARED AND COATED ACCORDING TO ASTM A 780.

STATEMENT OF ACCURACY

I, MATTHEW SPONG, HEREBY STATE THAT I AM A REGISTERED LANDSCAPE ARCHITECT IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF REPRESENTS GOOD LANDSCAPE ARCHITECTURAL PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

DATE MATTHEW T. SPONG #126-E

PROJECT #: 0563 COMM #: 1209 DATE: 10/07/09 Drawn:CDC Designed By:CDC/MTS Checked By: MTS REVISION: 3.5.10 - 95% Complete 4.30.10 - 100% DelDOT Comments of 4.9.10 6.15.10 - 100% Galvanized Post 7.31.13 - rev. cold galv. specs per DelDOT

3.20.2017 General updates, add Option 7 & Cover Sheet

COMMUNITY TRANSPERTATION FUND SUBDIVISION ENTRANCE SIGN 2017 - 2019 CTF PROJECT #T201709504

OPTION 7: THE MAGNOLIA CONSTRUCTION DETAILS, SPECIFICATIONS and NOTES



Matthew T. Spong, R.L.A., A.S.L.A. P.O. Box 293 Dover, Delaware 1990; Phone: 302-284-4578 Fax: 302-284-0301 Trisha Sawicki, A.S.L.A. Email: lasmail@las-llc.net Web: las-llc.net

IS NOT RESPONSIBLE FOR ANY MODIFICATION MADE TO THIS PLAN AND/OR CAD FILE WITHOUT ITS WRITTEN AUTHORIZATION

ANDSCAPE ARCHITECTURAL SERVICES, L.L.C

SCHED 40 POST

POST COVER

SUBGRADE

HIGH-DENSITY URETHANE

WITH

1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE AND ALLOW FOR EXISTING UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT 'MISS UTILITIES' OF DELMARVA TO LOCATE EXISTING UTILITIES IN THE FIELD. TELEPHONE: 811. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICES. ANY DAMAGE DONE TO THE UTILITIES DUE TO HIS OR HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPETENTLY REPAIRED AT THE CONTRACTORS OWN EXPENSE. 2. ALL CONSTRUCTION SHALL BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

3. DUE TO POSSIBLE REPRODUCTION AND MEDIUM DISTORTIONS, SCALED DIMENSIONS ARE NOT TO BE TAKEN FROM THESE DRAWINGS. 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND VERIFY ALL GRADES AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND MAKE THE PROPER ADJUSTMENTS TO THE PLANS AND DETAILS IF SITE CONDITIONS DO NOT ALLOW THE 'STANDARD' ENTRANCE SIGN TO BE USED THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO INITIATION

OF CONSTRUCTION AND CONSTRUCT SIGNS IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. 6. ALL CONSTRUCTION LAYOUT SHALL BE PROVIDED BY A DELAWARE PROFESSIONAL LAND SURVEYOR. 7. ALL \pm DIMENSIONS ARE CHECK DIMENSIONS.

8. THE CONTRACTOR IS REQUIRED TO EXAMINE THE SITE OF THE WORK, PLANS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS FOR THE WORK CONTEMPLATED AND IT WILL BE ASSUMED THAT HE HAS FAMILIARIZED AND SATISFIED HIMSELF AS TO THE CHARACTER, QUALITY AND QUANTITIES OF WORK TO BE PERFORMED AND MATERIALS TO BE FURNISHED AND AS TO THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, NOTES AND CONTRACT DOCUMENTS. HE MUST BE PREPARED TO EXECUTE A FINISHED JOB IN EVERY WAY WITHOUT ANY EXTRA CHARGE WHATSOEVER. 9. THE COMMUNITY IDENTIFICATION SIGN MUST BE LOCATED WITHIN A PUBLIC RIGHT-OF-WAY, A ROAD

10. SIGN ORDINANCES VARY FROM MUNICIPALITY TO MUNICIPALITY. ACCORDINGLY, ALL SIGNS MUST BE

RIGHT-OF-WAY (IF APPROVED BY DELDOT), OR PROPERTY DEDICATED TO PUBLIC USE. THE COMMUNITY ASSOCIATION MUST OBTAIN RÉQUIRED DEDICATION PRIOR TO START OF SIGN

APPROVED BY ALL JURISDICTIONAL APPROVAL AGENCIES PRIOR TO THE START OF CONSTRUCTION.

DESIGN LOADS

1. BUILDING CODE: INTERNATIONAL BUILDING CODE (2015 EDITION). 2. WIND LOADING IS BASED ON THE FOLLOWING:

BASIC WIND SPEED 120 MPH **EXPOSURE CATEGORY** IMPORTANCE FACTOR 1.0 DESIGN WIND PRESSURE 40 PSF

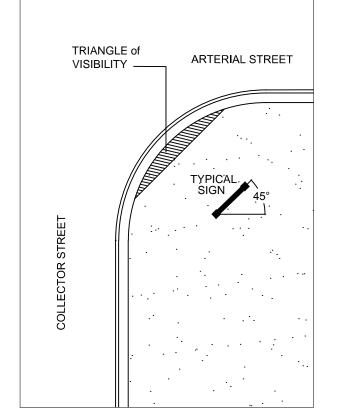
PROJECT NOTES:

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL MATERIALS & INSTALLATION TECHNIQUES TO DELDOT PROJECT ENGINEER PRIOR TO START OF CONSTRUCTION.

ANY TEMPORARY TRAFFIC CONTROL THAT IS REQUIRED FOR THE INSTALLATION OF THIS SIGN SHALL CONFORM TO THE REQUIREMENTS OF PART 6 OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD), INCLUDING ALL REVISIONS THAT HAVE BEEN APPROVED AT THE START OF CONSTRUCTION.

PEACHTREE CITY FOAMCRAFT

4215 INDEPENDENCE DR



EACH SITE WILL HAVE ACTUAL SITE SPECIFIC SIGHT TRIANGLE ADDED BY DELDOT PROJECT ENGINEER PRIOR TO CONSTRUCTION.

72" X 56" SIGN WITH 6" HIGH LETTERS & I" CONTRASTING COLOR BORDER GRAPHICS SHALL BE AN EXACT REPRODUCTION OF LOGO SUPPLIED BY HOMEOWNERS ASSOC. PROVIDE SAMPLE OF GRAPHICS FOR

APPROVAL PRIOR TO FABRICATING SIGN. MAXIMUM SIGN GRAPHICS AREA SHALL NOT EXCEED 20 SQUARE FEET.

SIGN FACE 3" 18LB FOAM CORE W/ HAND CARVED OR SANDBLASTED LETTERS ENGINEERING GRADE HIGH INTENSITY MATERIALS AS MANUFACTURED BY PEACHTREE CITY FOAMCRAFT 4215 INDEPENDENCE DR SCHNECKSVILLE, PA 18078 610-769-0661

WWW.FOAMCRAFT.INFO/MONUMENTSIGNS INSTALL SIGN PLUMB AND LEVEL OR APPROVED EQUAL 18" OPTIONAL LOGO **SWEETEST** SIGN MOUNTING BRACKET . 6X6 ARCHITECTURAL HIGH-DENSITY URETHANE, WOOD-TEXTURED POST COVÉR MOUNTING BRACKET: (TOP & BOTTOM) 3.5" Ø RING STAINLESS SIGN MOUNTING BRACKET POLE: 3.5" Ø GALVANIZED WITH STAINLESS STEEL HARDWARE ALL FINISHED WITH POLY-ARMOR 6X6 ARCHITECTURAL

WOOD-TEXTURED POST COVER DENT BREAKAWAY BOLT SYSTEM SCHNECKSVILLE, PA 18078 SEE DETAIL 610-769-0661 NOTE: CAP PLATES PROVIDED OR APPROVED EQUAL BY SIGN MFG FINISHED GRADE MANUFACTURE SUPPLIED 3.5" Ø MOUNTING POSTS 3" CLEARANCE TYP. #3 CLOSED TIES @ 12" O.C. 2 AT TOP 8x #6 VERTICALS 4x ½"DIAM x 6" LONG WELDED STUDS TO POST (TOP & BOT)

> ELEVATION: POLE MOUNTED IDENTIFICATION SIGN COMMUNITY TRANSPERTATION FUND

OPTION 8: THE BETHANY CONSTRUCTION DETAILS, SPECIFICATIONS and NOTES

2. CONTRACTOR, AT HIS EXPENSE, SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER LICENSED IN DELAWARE, TO VERIFY THE SUITABILITY OF THE SUBGRADE FOR THE PROPOSED FOUNDATION SYSTEM.

3. FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FOOTINGS BEARING ON SUITABLE NATURAL SOILS AND/OR NEW COMPACTED STRUCTURAL FILL.

. PRESUMPTIVE BEARING CAPACITY: 2000 PSF

4. ALL ORGANIC MATERIALS, EXCESSIVELY SOFT OR LOOSE SOILS, TREES, ASPHALT, CONCRETE, DEBRIS AND OTHER DELETERIOUS MATERIALS SHOULD BE REMOVED WITHIN AND AT LEAST 5 FEET BEYOND THE LIMIT OF THE STRUCTURE. THE EXISTING ORGANIC SOIL SHOULD BE STRIPPED AND CAN BE STOCKPILED FOR REUSE IN LANDSCAPE AREAS. PROOF ROLL ALL SUBGRADES, UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER. UNSUITABLE AREAS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER. NO FILL FOR STRUCTURE SUPPORT SHALL BE PLACED UNTIL SUBGRADES AND FILL MATERIAL HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.

5. AREAS REQUIRING UNDERCUT AND FILL MATERIAL DUE TO THE PRESENCE OF UNSUITABLE MATERIAL SHALL BE BACKFILLED TO THE DESIGN FOOTING SUBGRADE WITH NEW COMPACTED STRUCTURAL FILL.

6. COMPACTED STRUCTURAL FILL FOR STRUCTURE SUPPORT APPROVED FOR USE INCLUDE:

GRANULAR SOILS INCLUDING GW, GP, GM, SW, SP AND SM CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) FURTHERMORE, THE MATERIAL TO BE UTILIZED AS STRUCTURAL FILL SHOULD HAVE A PLASTICITY INDEX (PI) LESS THAN 20.

A MATERIAL UTILIZED FOR STRUCTURAL FILL MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER. IF THERE IS NOT SUFFICIENT FILL MATERIAL ON SITE, CONTRACTOR SHALL TRANSPORT APPROVED BORROW MATERIAL FROM AN OFF SITE SOURCE.

7. COMPACTED STRUCTURAL FILL BENEATH ALL FOUNDATIONS SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS AND BE COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D-1557, MODIFIED PROCTOR TEST.

8. THE EXCAVATION FOR PLACEMENT OF COMPACTED STRUCTURAL FILL SHOULD EXTEND BEYOND THE EDGE OF FOOTINGS A MINIMUM DISTANCE EQUAL TO THE DEPTH OF FILL

9. ALL SUBGRADES AND UNDERCUTS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER. SOILS EXPOSED AT THE BASES OF ALL APPROVED FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHOULD BE PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. SLOPE FOOTING EXCAVATIONS AS REQUIRED FOR STABILITY AND SAFETY OR PROVIDE SHEETING OR SHORING IN ACCORDANCE WITH OSHA REQUIREMENTS.

Helps Save Ground Anchor & Post! Installation Instructions Figure A Remove existing bolts and

Figure B

Figure C

spread plates (See Figure Remove damaged bolts by securing the bolt with a pair of vice grips and backing the nut off the bolt. (See Figure B)

Dent Breakaway Bolt ™

Install the bolts with approved nuts and washers to the lower base plates. Tighten the nuts (See Figure C NOTE: DO NOT HOLD THE TOP OF THE BOLT WHILE TIGHTENING THE BOTTOM NUT. HOLD BELOW THE

Lower the sign structure plate onto the top portion of the bolts and install upper washer and nuts. (See Figure D) If the keeper plate is damaged, it is not necessary to

replace it. The bolts should be wrenched tightened to prevent the nuts from working loose. There are no (All bolts must be in place before final tightening)

Special Notes:

A. Approved nuts and washers are required B. Be sure to tighten nuts evenly in a diagonal pattern, on sides of the flange so that the two plates remain horizontal to

C. In the case of any discrepancies or defects, the engineer and manufacturer must be notified immediately D. Both plates must be clean and flat to prevent stretching of the bolt from the uneven section causing cracking

DENT BREAKAWAY IND, INC **CLIFFORD DENT, INVENTOR** PO BOX 6007 **FARMINGTON, NM 87499** FAX: (413) 383-0681 Cell: (505) 486-0476

Email: info@dentbreakaway.com

NOTE: DENT BREAKAWAY BOLTS TO BE DESIGNED TO RESIST THE WIND LOADS PROVIDED ON THIS DRAWING WITHOUT FAILURE. ALL BREAKAWAY CHARACTERISTICS OF THE BOLT SYSTEM HAVE NOT BEEN ADDRESSED AND SHALL BE DESIGNED BY THE MANUFACTURER.

DENT PRODUCT DIST: Peachtree City Foamcraft 4215 Independence Dr Schnecksville, PA 18078 Attn: Michael Fetter 610-769-0661 Office 678-457-3166 Cell 610-769-0664 Fax OR APPROVED EQUAL

DENT BREAKAWAY BOLT #6878 5/8" MIN WIND LOAD REQS TOTAL SHEAR LOAD: 600 LBS MOMENT LOAD: 3.6 FT-KIPS 3.5" MIN DIAMETER POST

FOAM CORE SIGN SPECIFICATIONS

1. FOAM CORE SIGN STRUCTURE SHALL BE CAPABLE OF SUSTAINING A STATIC LOAD OF 80 LBS PER SQUARE FOOT (80PSF) 2. MANUFACTURER: FABRICATED UNITS SHALL BE FABRICATED BY PEACHTREE CITY FOAM CRAFT, 4215 INDEPENDENCE DR SCHNECKVILLE, PA PHONE: 610-769-0661 www.foamcraft.info/monumentsign (OR APPROVED EQUAL)

3. EXPANDED POLYSTYRENE CORE, (EPS): ASTM C 578 TYPE 1, RIGID CELLULAR THERMAL INSTALLATION FORMED BY EXPANSION OF POLYSTYRENE RESIN BEADS OR GRANULES IN A CLOSED CELL, COMPLYING WITH THE FOLLOWING PROPERTIES:

A. AGE IN BLOCK FORM (PRIOR TO CUFFING) BY AIR-DRYING FOR MINIMUM OF 4 WEEKS OR APPROVED METHODS PRODUCING

EQUIVALENT RESULTS B. BOARD DENSITY: MIN DENSITY OF 1.15 LB/CU.FT. ASTM D303.

DENSITY RANGE 1.15 - 1.34 ASTM 1622 C. COMPRESSION STRENGTH 10% DEFORMATION 13-18 PSI ASTM D1621.

D. TENSILE STRENGTH: 18-22 PSI ASTM D1623.

E. FLEXURAL STRENGTH: 30-38 PSI ASTM C203 F. WATER ABSORPTION BY TOTAL IMMERSION: LESS THAN 4%

G. THERMAL EXPANSION: 0.0000035 IN/IN ASTM D696

ASTM C272

F. FIRE RETARDANT:

H. OXYGEN INDEX: 24% MIN VOLUME ASTM C578. I. TEMITE RESISTANCE: PASSED ASTM D3345.

J. CARPENTER ANT RESISTANCE: PASSED ASTM D3345 4. POLY-ARMOR @ 60 MILS 1 LB EXPANDED POLYSTYRENE

A. IMPACT RESISTANCE: @77° F = 500 IN-LBS $@32^{\circ} F = 350 \text{ IN-LBS ASTM G14}$ B. ELONGATION: $@77^{\circ} F = 400\%$ $@32^{\circ} F = 155\%$ ASTM D412 C. TENSILE STRENGTH: @77° F = 3000 PSI $@32^{\circ} F = 2200 PSI$ ASTM D412 D. TEAR STRENGTH: $@77^{\circ} F = 250 PLI$ $@32^{\circ} F = 150 PLI$ ASTM D624 E. FLEXIBILITY: $@77^{\circ} F = PASS$ $@32^{\circ} F = PASS$ ASTM D522

ASTM E84 $@32^{\circ} F = PASS$ 5. ACRYLIC: TEXTURES FINISH "MASTER WALL BRAND" OR APPROVED EQUAL 6. COLORS SHALL BE SELECTED FROM MFG'S STANDARD COLOR CHART. 7. WARRANTY: 5-YEAR WARRANTY ON MATERIALS USED FOR SIGN

 $@77^{\circ} F = PASS$

FABRICATION 8. FABRICATION: FABRICATE SIGNS TO DIMENSIONS, PROFILES AND TEXTURES

SHOWN ON THE DRAWINGS 9. INSTALL SIGNS PLUMB AND LEVEL.

10. FOOTINGS HAVE BEEN DESIGNED BASED ON AN ASSUMED SOIL BEARING CAPACITY OF 2.000 PSF. CONTRACTOR SHALL VERIFY SUITABILITY OF SUBSOIL FOR THE PROPOSED STRUCTURE AND MAKE NECESSARY ALLOWANCES IF SUBSOIL IS NOT SUITABLE.

11. CONCRETE SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE ACI 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS' LATEST EDITION. FOOTINGS SHALL ACHIEVE 3,000 PSI COMPRESSIVE STRENGTH AT 28

12. STEEL PIPE - TYPE I: ASTM F 1083, STANDARD WEIGHT SCHEDULE 40; MINIMUM YIELD STRENGTH OF 25,000 PSI (170 MPA); SIZES AS INDICATED. HOT DIPPED GALVANIZED WITH MINIMUM AVERAGE 1.8 OZ/FT2 (550G/M2) OF COATED SURFACE AREA.

13. ALL REINFORCING BARS AND OTHER STEEL SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM-A307.

14. THE 3 1 DIAM MOUNTING POST SHALL BE HOT DIPPED GALVANIZED. THE CAP PLATE AND STUDS MAY BE WELDED ONTO THE POST AFTER HOT DIPPED PPROCESS AND THEN COLD GALVANIZED WELDS. PLATES. STUDS AND REPAIR OF ANY DAMAGED HOT DIPPED GALVANIZING ON THE POST SHALL BE PREPARED AND COATED ACCORDING TO ASTM A 780.

> STATEMENT OF ACCURACY MATTHEW SPONG, HEREBY STATE THAT I AM A REGISTERED LANDSCAPE ARCHITECT IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF REPRESENTS GOOD LANDSCAPE ARCHITECTURAL PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

MATTHEW T. SPONG #126-E

LANDSCAPE ARCHITECTURAL SERVICES, L.L.C

P.O. Box 293 Dover Delaware 1990: Phone: 302-284-4578 Fax: 302-284-0301 Email: lasmail@las-llc.net Web: las-llc.net

ANDSCAPE ARCHITECTURAL SERVICES, L.L.C S NOT RESPONSIBLE FOR ANY MODIFICATION MADE TO THIS PLAN AND/OR CAD FILE WITHOUT ITS WRITTEN AUTHORIZATION

SHEET#

Drawn:CDC Designed By:CDC/MTS Checked By: MTS REVISION: 3.5.10 - 95% Complete 4.30.10 - 100% DelDOT Comments of 4.9.10 6.15.10 - 100% Galvanized Post 7.31.13 - rev. cold galv. specs per DelDOT 3.20.2017 General updates, add Option 7 & Cover Sheet

PROJECT #: 0563 COMM #: 1209 DATE: 10/07/09

SQUARE OR ROUND

SUBDIVISION ENTRANCE SIGN 2017 - 2019 CTF PROJECT #T201709504

Matthew T. Spong, R.L.A., A.S.L.A. Trisha Sawicki, A.S.L.A.

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