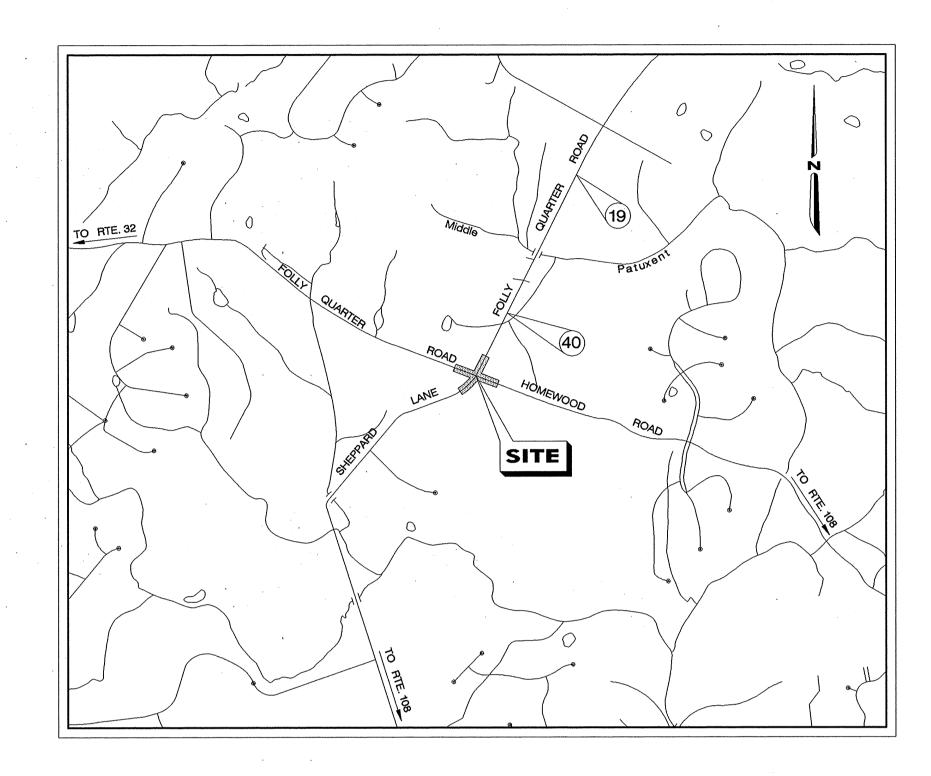
#### INDEX OF SHEETS

SHEET NO. **DESCRIPTION** TITLE SHEET PLAN SHEET WATER LINE PLAN, DETAILS AND NOTES TYPICAL SECTIONS AND DETAILS SEDIMENT AND EROSION CONTROL PLAN SEDIMENT AND EROSION CONTROL DETAILS AND NOTES SIGNING AND MARKING PLAN TRAFFIC CONTROL PLAN TRAFFIC CONTROL DETAILS AND NOTES ROADWAY PROFILES ROADWAY CROSS SECTIONS GEOMETRY PLAN

> THE CONTRACTOR IS ALERTED TO THE FACT THAT FOLLY QUARTER ROAD AND SHEPPARD LANE ARE SCENIC ROADS AND AS SUCH THE CLEANING AND GRUBBING WORK AND GRADING WORK SHALL BE MINIMIZED.



LOCATION MAP

CAPITAL PROJECT NO. J-4164

# Folly Quarter Road at Sheppard Lane and Homewood Road

"ROUND-ABOUT INTERSECTION" HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

### **ON-SITE BENCH MARKS**

B.M. #1 N 576566.9199 E 1331651.4376 ELEV. 402.066 STEEL REBAR WITH PLASTIC CAP

B.M. #2 N 576383.2965 E 1331456.8059 ELEV. 400.321 STEEL REBAR WITH PLASTIC CAP

B.M. #3 N 576631.6305 E 1331394.2846 ELEV. 392.179 STEEL REBAR WITH PLASTIC CAP

PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CHIEF, DIVISION OF TRANSPORTATION AND SPECIAL PROJECTS

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION

**GENERAL NOTES** 

PER THE PLANS OR AS DIRECTED BY THE HOWARD COUNTY ENGINEER.

3. STORM DRAINAGE SLOPES ARE TO BE AS SHOWN ON THE PLANS OR AS

2. ALL STATIONING AND DIMENSIONING ARE TO BE FIELD VERIFIED BY THE

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT

DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION

OF THE ENGINEER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES

BALTIMORE GAS & ELECTRIC CO. - ELECTRIC DISTRIBUTION 410-291-3096

THE CONTRACTOR SHALL CONTACT THE HOWARD COUNTY CONSTRUCTION

INSPECTION DIVISION OF ENGINEERING FOR VERIFICATION AND /OR

D. EROSION /SEDIMENT CONTROL CERTIFICATION AND PERMIT.

5. SEE HOWARD COUNTY STANDARD DETAILS NO'S G-1.01 AND G-1.02 FOR

6. HORIZONTAL COORDINATES ARE BASED ON MD NAD 83/91 DATUM AND

TRANSFERRED FROM HOWARD COUNTY CONTROL STATIONS 0019 AND 0040.

C. MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.

VERTICAL ELEVATIONS ARE BASED ON NGVD 1929 ELEVATIONS,

7. MAINTENANCE OF TRAFFIC FOR FOLLY QUARTER ROAD, SHEPPARD

8. A STAGING AND STOCKPILE AREA WILL BE DETERMINED BY THE

TRAFFIC CONTROL FOR ALL THREE STAGES. (SEE SHEETS 8 AND 9)

CONTRACTOR AND APPROVED BY THE HOWARD COUNTY ENGINEER.

LANE AND HOMEWOOD ROAD SHALL BE STAGED IN THREE PARTS WITH

TEMPORARY APPROACH SIGNS WILL REMAIN IN EFFECT THROUGHOUT THE

9. TOPOGRAPHIC SURVEY INFORMATION BASED ON FIELD SURVEY PERFORMED BY A, MORTON THOMAS AND ASSOCIATES DATED 9/13/00. THREE HORIZONTAL

THE COUNTY WILL CLOSE THE FOLLY QUARTER ROAD NORTH APPROACH

DURATION OF THE WORK. THERE ARE NO ACCESS DRIVES WITH THE WORK

AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.

EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY

4. APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN. THE

DIRECTED BY HOWARD COUNTY ENGINEER.

VERIZON - TELECOMMUNICATIONS 410-224-9500

MISS UTILITY 1-800-257-7777

INFORMATION REGARDING:

F. GRADING PERMIT.

STANDARD SYMBOLS.

B. UTILITY RELOCATION.

COMCAST CABLE - 410-461-0444

HOWARD COUNTY D.P.W. 410-313-4900

N 580468.1280 E 1333675.5180 ELEV. 385.842

N 577270.5840 E 1333002.5750 ELEV. 365.305

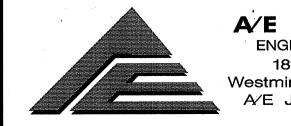
ZONE TO BE MAINTAINED BY THE CONTRACTOR.

A. PROPOSED/EXISTING RIGHT-OF-WAY.

E. HORIZONTAL / VERTICAL SURVEY CONTROL.

1. ALL INFORMATION AND DETAILS ON THESE DRAWINGS SHALL BE CONSTRUCTED AS

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND



A/E GROUP, INC.



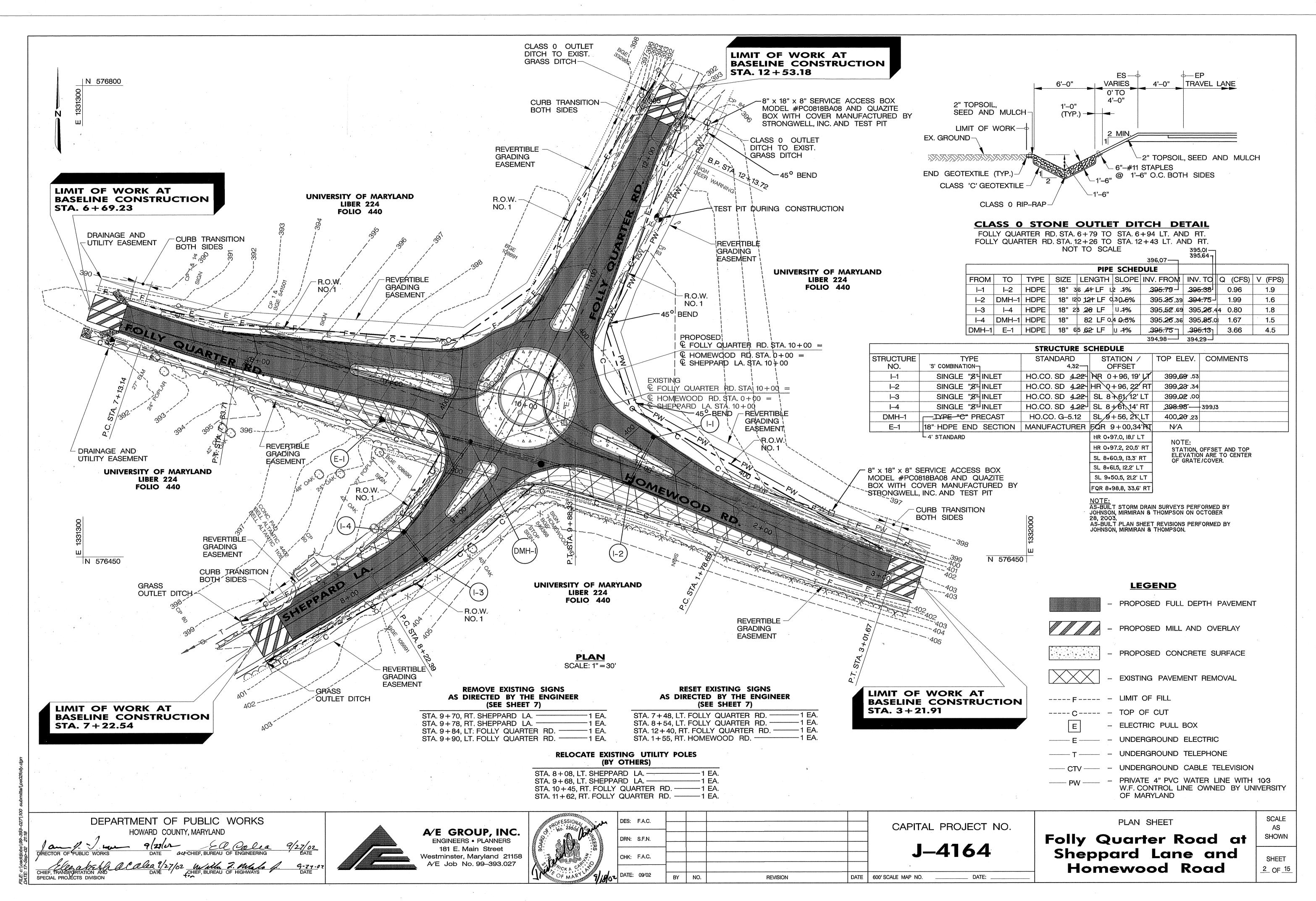
CAPITAL PROJECT NO. J-4164

TITLE SHEET Folly Quarter Road at Sheppard Lane and **Homewood Road** 

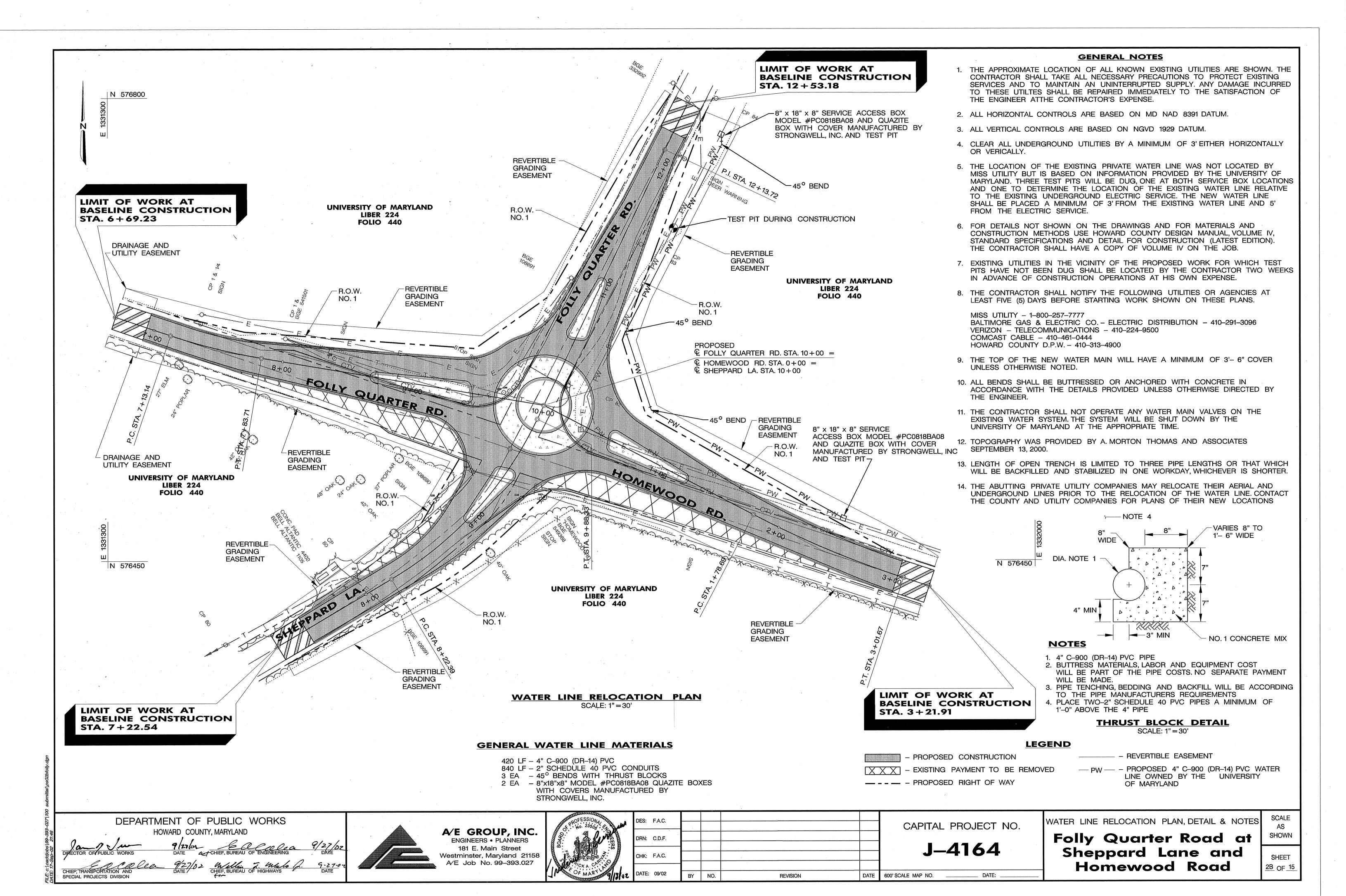
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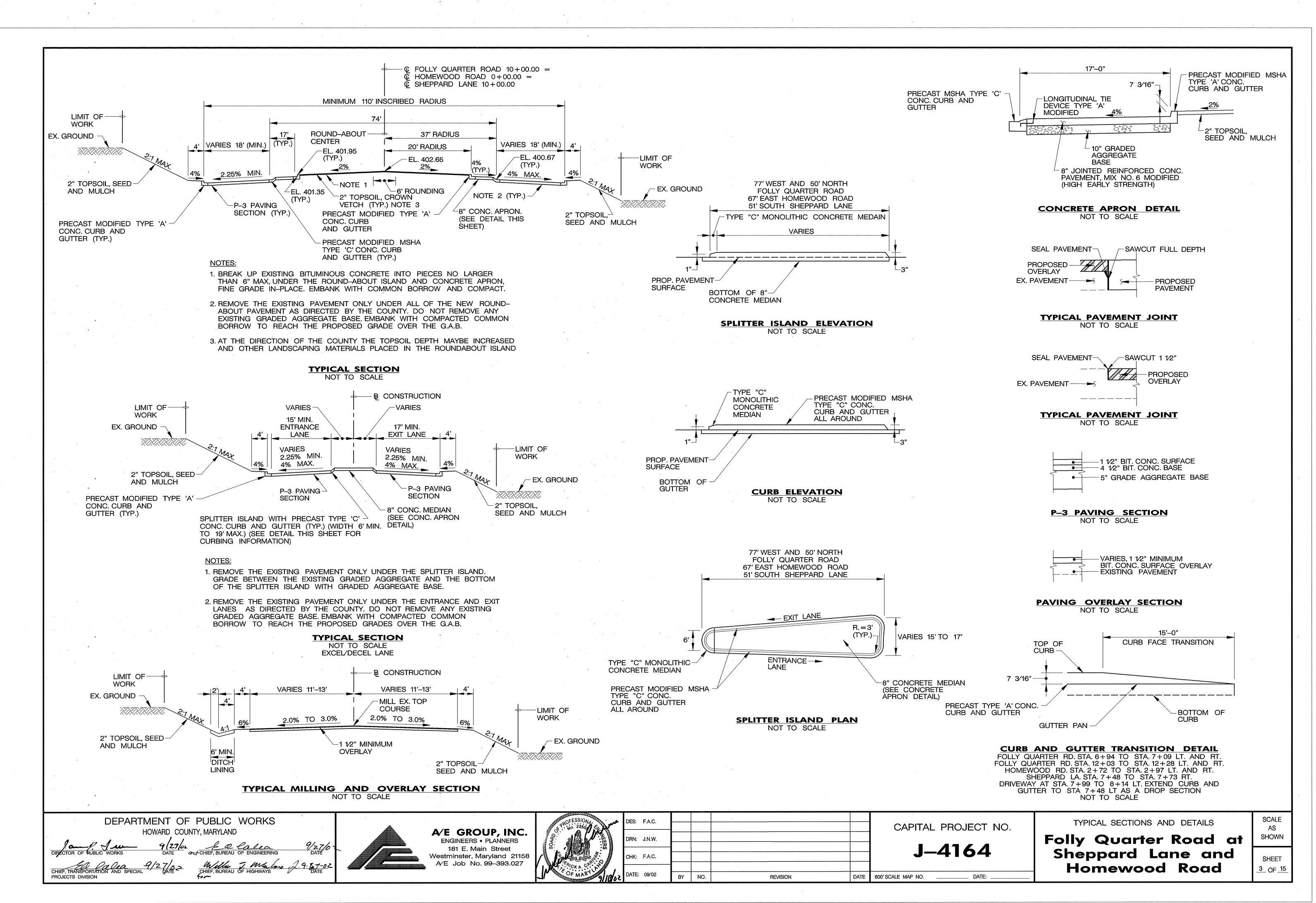
APPROVED: FOR STORM DRAINAGE SYSTEMS AND

9/27/02

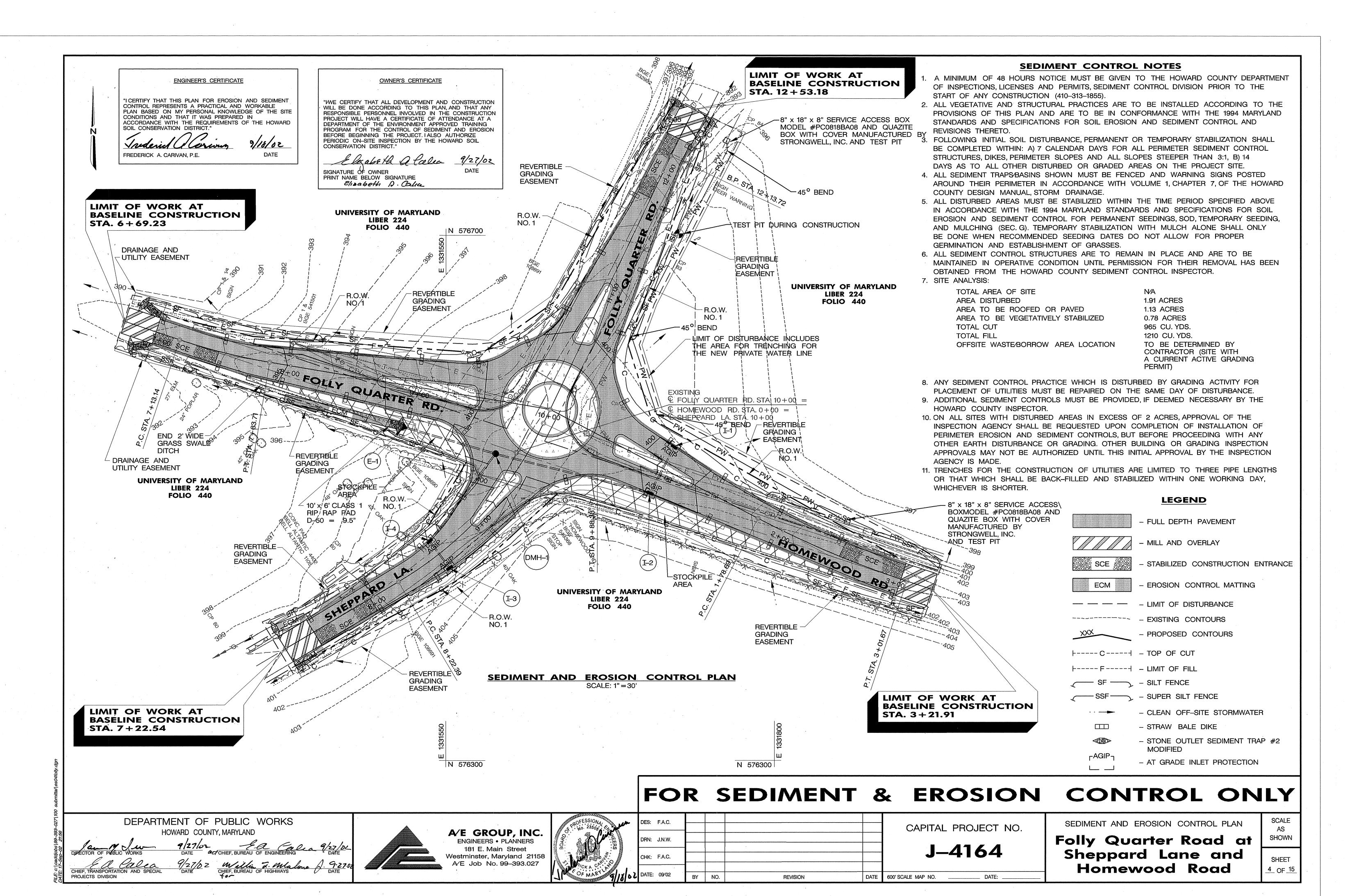


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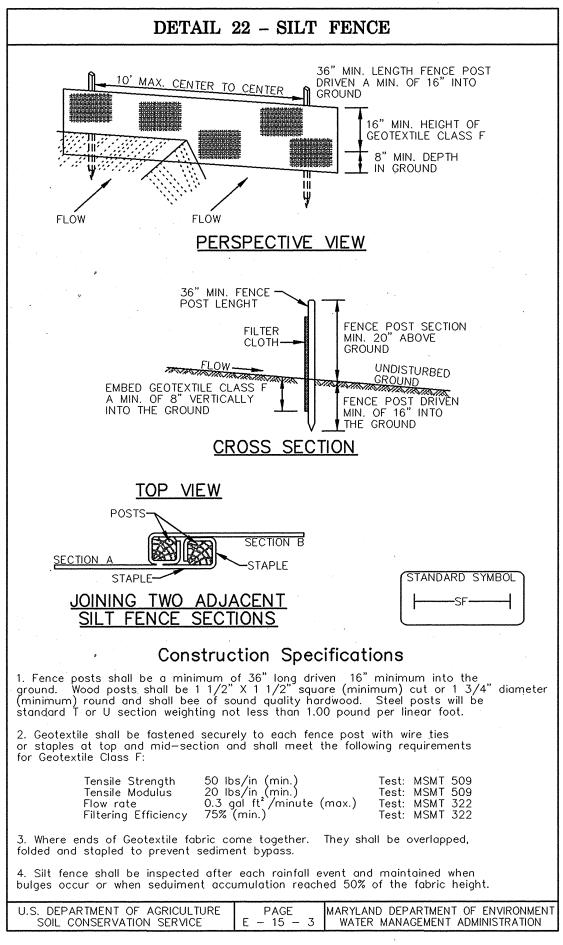


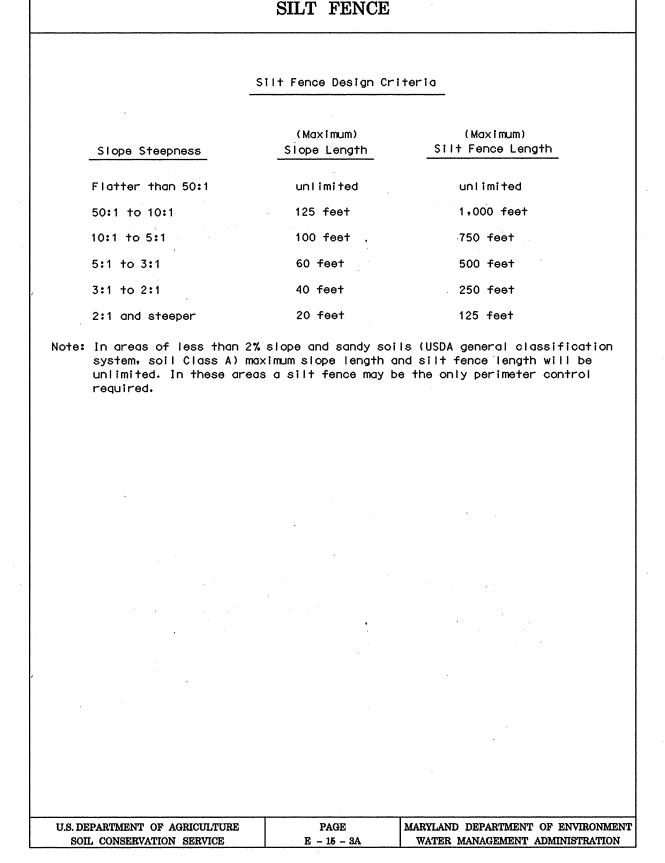


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#### DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE - MOUNTABLE BERM (6" MIN.) -50' MINIMUM — XISTING PAVEMENT --- EARTH FILL \*\* GEOTEXTILE CLASS --- PIPE AS NECESSARY OR BETTER MINIMUM 6" OF 2"-3" AGGREGATE OVER LENGTH AND WIDTH OF LEXISTING GROUND STRUCTURE PROFILE \* 50' MINIMUM --LENGTH **EXISTING** PAVEMENT MINIMUM SSS PLAN VIEW STANDARD SYMBOL SCE Construction Specification . Length - minimum of 50' (\*30' for single residence lot). 2. Width - 10' minimum, should be flared at the existing road to provide a turning 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. \*\*The plan approval authority may not require single family residences to use geotextile. 4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the 5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required. 6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance. U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT

## STABILIZED CONSTRUCTION ENTRANCE

### Construction Specification

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2. Width - 10' minimum, should be flared at the existing road to provide a turning

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. \*\*The plan approval authority may not require single family residences to use geotextile.

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U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**NOTES:** 

CONTRACTOR WILL PROVIDE STONE CONSTRUCTION ENTRANCES IN THE WORK ZONES DURING ALL PHASES OF CONSTRUCTION. SEE DETAIL NO. 24 ON THIS SHEET.

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION

THIS DEVELOPMENT IS APPROVED FOR EROSION AND

APPROVED: FOR STORM DRAINAGE SYSTEMS AND

PUBLIC ROADS. HOWARD COUNTY

DATE

DEPARTMENT OF PUBLIC WORKS

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

m Mynn

ard Soil Conservation District

CHIEF, DIVISION OF TRANSPORTATION

AND SPECIAL PROJECTS

2. PROVIDE E.C.M. DITCH LINING FOR ALL SWALES WHERE RIP-RAP LINING IS NOT INDICATED.

### SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT AND SUBMIT NOTIFICATION TO THE COUNTY AS NOTED IN THE SPECIFICATIONS OBTAIN PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR PRIOR TO ANY CONSTRUCTION (1 DAY)
- INSTALL PERIMETER SEDIMENT CONTROL MEASURES. (1 DAY) CLEAR AND GRUB THE ENTIRE AREA. RECONSTRUCT THE FOLLY QUARTER ROAD WEST APPROACH AND THE HOMEWOOD ROAD EAST APPROACH, INCLUDING THE NEW MEDIAN ISLAND, BOTH SPLITTER ISLANDS AND CONCRETE CURB AND GUTTER EDGES PAVE BOTH BASE COURSES AND ADD TEMPORARY STRIPING
- (20 DAYS) RECONSTRUCT THE FOLLY QUARTER ROAD NORTH APPROACH AND THE SHEPPARD LANE SOUTH APPROACH, INCLUDING THE SPLITTER ISLAND, CONCRETE CURB AND GUTTER EDGES AND PAVEMENT BASE COURSES AND TEMPORARY STRIPING (15 DAYS)
- PLACE ASPHALT SURFACE COURSE AND FINAL SIGNING AND STRIPING. PLACE STONE OUTLET DITCHES, TOPSOIL SEED AND MULCH. (5 DAYS)
- REMOVE SEDIMENT CONTROL DEVICES WITH APPROVAL FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. (1 DAY)

#### STANDARDS AND SPECIFICATIONS FOR TOPSOIL

DEFINITION AND PURPOSE

PLACE TOPSOIL OVER A PREPARED SUBSOIL, PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION, TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SUBSOILS OF CONCERN HAVE A LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

#### CONDITIONS WHERE PRACTICE APPLIES

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
  - THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
  - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
  - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT
  - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

#### CONSTRUCTION AND MATERIAL SPECIFICATIONS

- TOPSOIL SALVAGED FROM EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
- TOPSOIL SPECIFICATIONS SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
  - TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURE SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONE, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER
  - TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS
  - WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
- FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
  - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- IV. TOPSOIL APPLICATION
  - WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS
  - GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4"-8" HIGHER IN ELEVATION.
  - TOPSOIL SHALL BE UNIFORMLY DISTURBED IN A 4" 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PREFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER
  - TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

## FOR SEDIMENT & EROSION CONTROL ONLY

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

WATER MANAGEMENT ADMINISTRATION



A/E GROUP, INC. **ENGINEERS • PLANNERS** 181 E. Main Street

Westminster, Maryland 21158

A/E Job No. 99-393.027

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CAPITAL PROJECT NO.

600' SCALE MAP NO.

DATE:

J-4164

Folly Quarter Road at Sheppard Lane and **Homewood Road** 

SEDIMENT AND EROSION CONTROL DETAILS

SHEET

<u>5</u> OF <u>15</u>

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SOIL CONSERVATION SERVICE

#### SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS

- INSTALL EROSION AND SEDIMENT CONTROL STRUCTURES (EITHER TEMPORARY OR PERMANENT) SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS,
  - WATERWAYS, OR SEDIMENT CONTROL BASINS. PERFORM ALL GRADING OPERATIONS AT RIGHT ANGLES TO THE SLOPE. FINAL GRADING AND SHAPING IS NOT USUALLY NECESSARY FOR TEMPORARY SEEDING.
  - SCHEDULE REQUIRED SOIL TESTS TO DETERMINE SOIL AMENDMENT COMPOSITION AND APPLICATION RATES FOR SITE HAVING DISTURBED AREA OVER 5 ACRES.
- SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS) SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OVER 5 ACRES. SOIL ANALYSIS MAY BE PERFORMED BY THE UNIVERSITY OF MARYLAND OR A RECOGNIZED COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR
  - FERTILIZERS SHALL BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROVED EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS SHALL ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE STATE FERTILIZER LAWS AND SHALL BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTEE OF THE
  - LIME MATERIALS SHELL BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED) WHICH CONTAINS AT LEAST 50% TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT AT LEAST 50% WILL PASS THROUGH A #100 MESH SIEVE AND
  - 98-100% WILL PASS THROUGH A #20 MESH SIEVE. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3-5" OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

#### C. SEEDBED PREPARATION

- I. TEMPORARY SEEDING A. SEEDBED PREPARATION SHALL CONSIST OF LOOSENING SOIL TO A DEPTH OF 3" TO 5" BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT, AFTER THE SOIL IS LOOSENED IT SHOULD NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPED AREAS (GREATER THAN 3:1) SHOULD BE TRACKED LEAVING THE SURFACE IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE
  - CONTOUR OF THE SLOPE. APPLY FERTILIZER AND LIME AS PERSCRIBED ON THE PLANS. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 - 5" OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
- PERMANENT SEEDING A. MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE
  - **ESTABLISHMENT:** SOIL PH SHALL BE BETWEEN 6.0 AND 7.0.
    - SOLUBLE SALTS SHALL BE LESS THAN 500 PARTS PER
    - MILLION (PPM). THE SOIL SHALL CONTAIN LESS THAN 40% CLAY BUT ENOUGH FINE GRAINED MATERIAL (>30% SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION IS IF LOVEGRASS OR SERECIA
    - SILT PLUS CLAY) WOULD BE ACCEPTABLE. SOIL SHALL CONTAIN 1.5% MINIMUM ORGANIC MATTER BY

LESPEDEZA IS TO BE PLANTED, THEN A SANDY SOIL (<30%

- SOIL, MUST CONTAIN PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
- 6. IF THESE CONDITIONS CANNOT BE MET BY SOILS ON SITE, ADDING TOPSOIL IS REQUIRED IN ACCORDANCE WITH SECTION 21 STANDARD AND SPECIFICATION FOR TOPSOIL. AREAS PREVIOUSLY GRADED IN CONFORMANCE WITH THE DRAWINGS
- SHALL BE MAINTAINED IN A TRUE AND EVEN GRADE, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 - 5" TO PERMIT BONDING OF THE SOPSOIL TO THE SURFACE AREA AND TO CREATE HORIZONTAL EROSION CHECK SLOTS TO PREVENT TOPSOIL FROM SLIDING DOWN A SLOPE.
- APPLY SOIL AMENDMENTS AS PER SOIL TEST OR AS INCLUDED ON
- MIX SOIL AMENDMENTS INTO THE TOP 3 5" OF TOPSOIL BY DISKING OF OTHER SUITABLE MEANS. LAWN AREAS SHOULD BE RAKED TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION, WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION, LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE.
- STEEP SLOPES (STEEPER THAN 3:1) SHOULD BE TRACKED BY A DOZER LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. THE TOP 1 - 3" OF SOIL SHOULD BE LOOSE AND FRIABLE. SEEDBED LOOSENING MAY NOT BE NECESSARY ON NEWLY DISTURBED AREAS.
- D. SEED SPECIFICATIONS ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED SHALL BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED SHALL HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEEDING THE DATE OF SOWING SUCH MATERIAL ON THIS JOB. NOTE: SEED TAGS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO
  - VERIFY TYPE AND RATE OF SEED USED. INNOCULANT - THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES SHALL BE A PURE CULTURE OF NITROGEN-FIXING BACTERIA ON THE CONTAINER, ADD FRESH INOCULANT AS DIRECTED ON PACKAGE, USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS
- POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75-80 F. CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.
- HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER), BROADCAST OR DROP SEEDER, OR A CULTIPACKER
  - IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES AMOUNTS WILL NOT EXCEED THE FOLLOWING: NITROGEN; MAXIMUM OF 100 LBS. PER ACRE TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS): 200 LBS/AC; K20 (POTASSIUM): 200
  - LIME USE ONLY GROUND AGRICULTURAL LIMESTONE, (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING. SEED AND FERTILIZER SHALL BE MIXED ON SITE AND SEEDING SHALL
  - BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OF BROADCAST

- SEED SPREAD DRY SHALL BE INCORPORATED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON THE TEMPORARY OR PERMANENT SEEDING SUMMARIES OR TABLES 25 OR 26. THE SEEDED AREA SHALL THEN BE ROLLED WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO
- SOIL CONTACT. WHERE PRACTICAL, SEED SHOULD BE APPLIED IN TWO DIRECTIONS PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.
- III. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL. CULTIPACKER SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH SOIL COVERING.
  - SEEDBED MUST BE FIRM AFTER PLANTING. WHERE PRACTICAL, SEED SHOULD BE APPLIED IN TWO DIRECTIONS PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.
- MULCH SPECIFICATIONS (IN ORDER OF PREFERENCE) STRAW SHALL CONSIST OF THOROUGHLY THRESHED WHEAT, RYE OR OAT STRAW, REASONABLY BRIGHT IN COLOR, AND SHALL NOT BE MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY AND SHALL BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW.
  - WOOD CELLULOSE FIBER MULCH (WCFM). WCFM SHALL CONSIST OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.
  - WCFM SHALL BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.
  - WCFM, INCLUDING DY, SHALL CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS. WCFM MATERIALS SHALL BE MANUFACTURED AND PROCESSED IN
  - SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL SHALL FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND SHALL COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING
  - THE GROWTH OF THE GRASS SEEDINGS. WCFM MATERIAL SHALL CONTAIN NO ELEMENTS OR COMPOUNDS AT
  - CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH TO APPROXIMATELY 10 MM. DIAMETER APPROXIMATELY 1 MM. PH. RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6% MAXIMUM AND WATER HOLDING CAPACITY OF 90% MINIMUM. NOTE: ONLY STERILE STRAW MULCH SHOULD BE USED IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.
- MULCHING SEEDED AREAS MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. IF GRADING IS COMPLETED OUTSIDE OF THE SEEDING SEASON, MULCH ALONE SHALL BE APPLIED AS PRESCRIBED IN THIS SECTION AND MAINTAINED UNTIL THE SEEDING SEASON RETURNS AND SEEDING CAN BE
  - PERFORMED IN ACCORDANCE WITH THESE SPECIFICATIONS. WHEN STRAW MULCH IS USED, IT SHALL BE SPREAD OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS/ACRE. MULCH SHALL BE APPLIED TO A UNIFORM LOOSE DEPTH OF BETWEEN 1" AND 2". MULCH APPLIED SHALL ACHIEVE A

- UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. IF A MULCH ANCHORING TOOL IS TO BE USED, THE RATE SHOULD BE INCREASED TO 2.5 TONS/ACRE.
- WOOD CELLULOSE FIBER USED AS A MULCH SHALL BE APPLIED AT A NET DRY WEIGHT OF 1,500 LBS. PER ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER. AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LBS, OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
- SECURING STRAW MULCH (MULCH ANCHORING): MULCH ANCHORING SHALL BE PERFORMED IMMEDIATELY FOLLOWING MULCH APPLICATION TO MINIMIZE TOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON SIZE OF AREA AND EROSION HAZARD:
- A MULCH ANCHORING TOOL IS A TRACTOR DRAWING IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF TWO (2) INCHES. THE PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD BE USED ON THE CONTOUR IF POSSIBLE.
- WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 POUNDS/ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
- APPLICATIONS OF LIQUID BINDERS SHOULD BE HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. THE REMAINDER OF AREA SHOULD APPEAR TO BE UNIFORM AFTER BINDER APPLICATION. SYNTHETIC BINDERS - SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSET, TERRA TAX II, TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER TO ANCHOR

# DETAIL 30 - EROSION CONTROL MATTING CROSS-SECTION STRIPS WHERE TWO OR MORE STRIP WIDTHS ARE REQUIRED, ATTACH STAPLES ON 18" CENTERS

### EROSION CONTROL MATTING

### Construction Specifications

- 1. Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".
- 2. Staple the 4" overlap in the channel center using an 18" spacing between staples.
- 3. Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.

4. Staples shall be placed 2' apart with 4 rows for each strip, 2

outer rows, and 2 alternating rows down the center.

- 5. Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4". shiplap fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.
- 6. The discharge end of the matting liner should be similarly secured with 2 double rows of staples.
- Note: If flow will enter from the edge of the matting then the area effected by the flow must be keyed-in.

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, DIVISION OF TRANSPORTATION AND SPECIAL PROJECTS

9/27/02 DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

THIS DEVELOPMENT IS APPROVED FOR EROSION AND THE HOWARD SOIL CONSERVATION

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

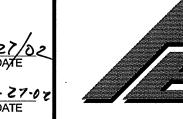
# FOR SEDIMENT & EROSION CONTROL ONLY

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

U.S. DEPARTMENT OF AGRICULTURE

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION



A/E GROUP, INC. **ENGINEERS • PLANNERS** 181 E. Main Street Westminster, Maryland 21158 A/E Job No. 99-393.027



DES: F.A.C. DRN: J.N.W. DATE 600' SCALE MAP NO.

CAPITAL PROJECT NO.

J-4164

SEDIMENT AND EROSION CONTROL DETAILS AND NOTES

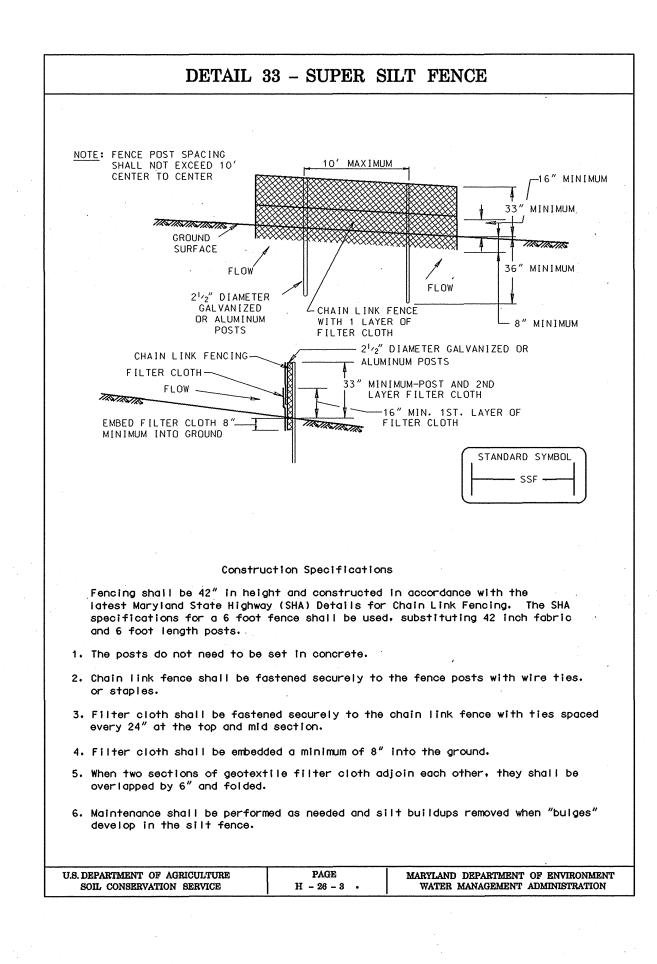
Folly Quarter Road at Sheppard Lane and **Homewood Road** 

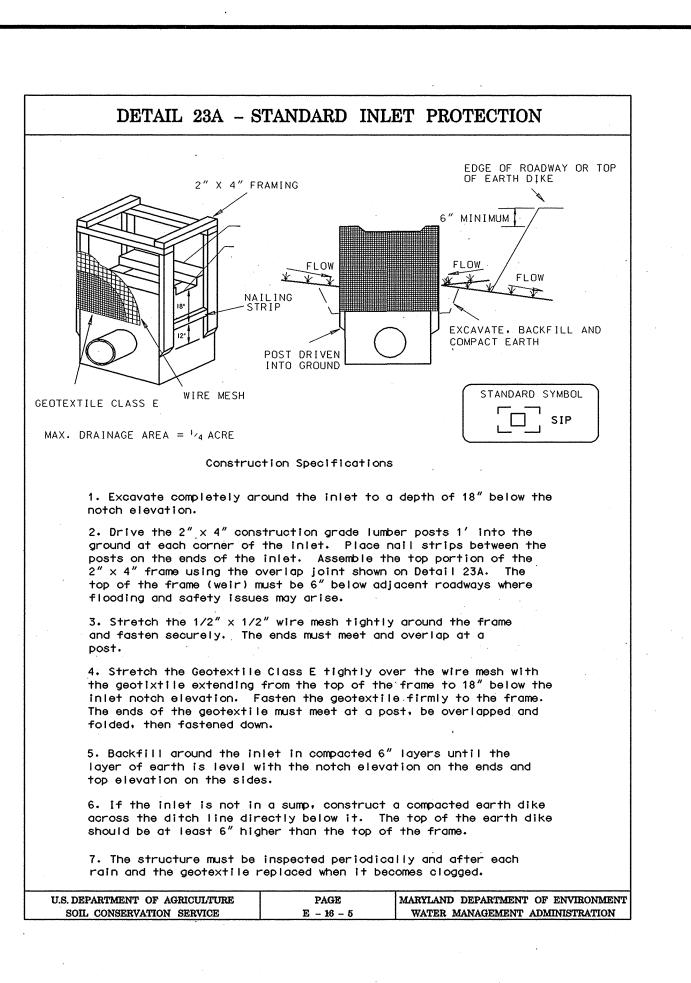
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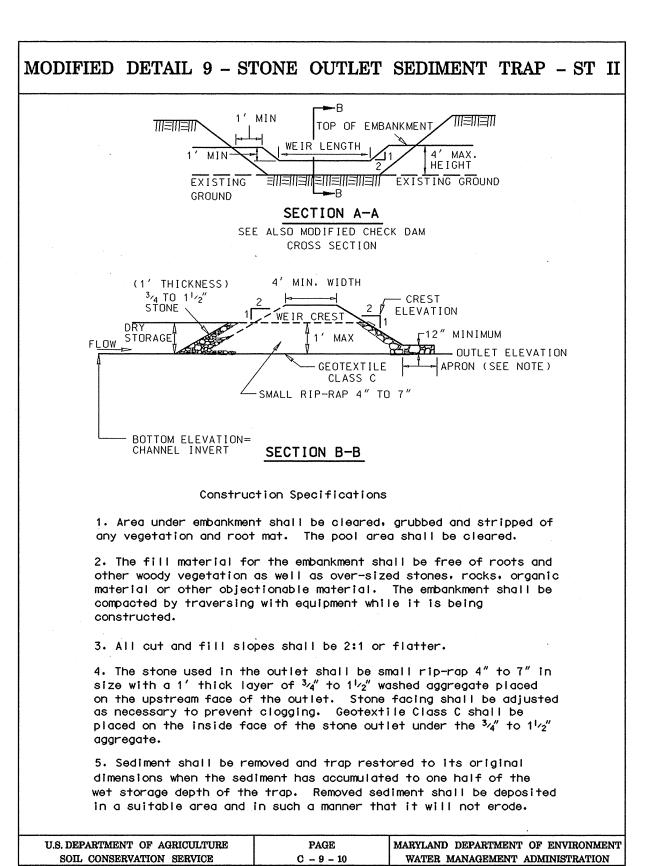
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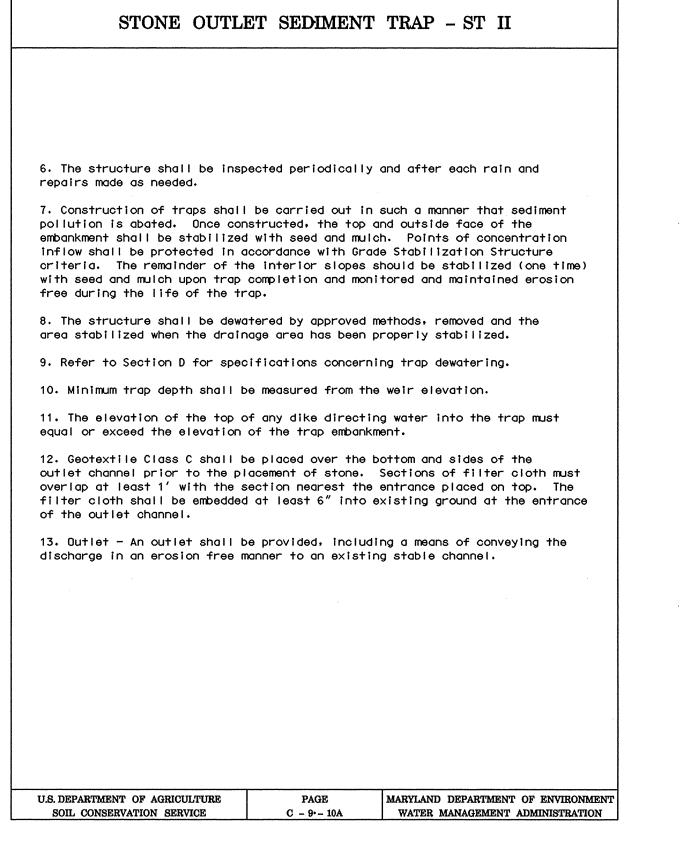
U.S. DEPARTMENT OF AGRICULTURE

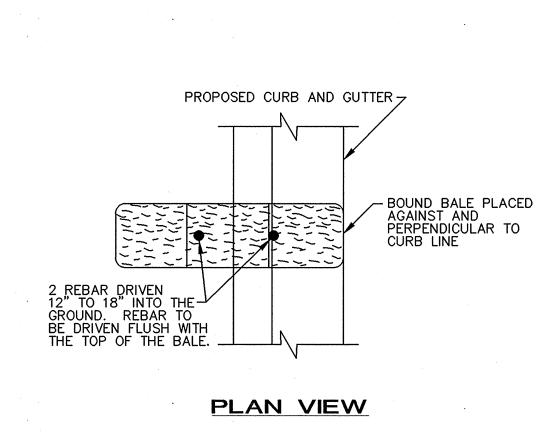
SOIL CONSERVATION SERVICE











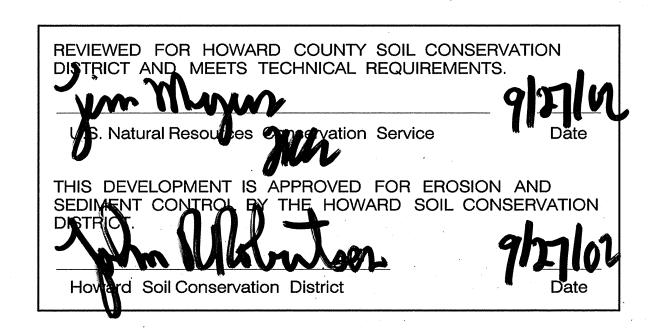
PROPOSED
CURB AND GUTTER EXISTING GROUND -LIMIT OF **EXCAVATION -**∠STRING BINDER **ELEVATION VIEW** 

STRAW BALE DIKE DETAILS NOT TO SCALE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, DIVISION OF TRANSPORTATION AND SPECIAL PROJECTS

9/27/02 DATE



## FOR SEDIMENT & EROSION CONTROL ONLY

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND



A/E GROUP, INC. Vestminster, Maryland 21158 A/E Job No. 99–393.027



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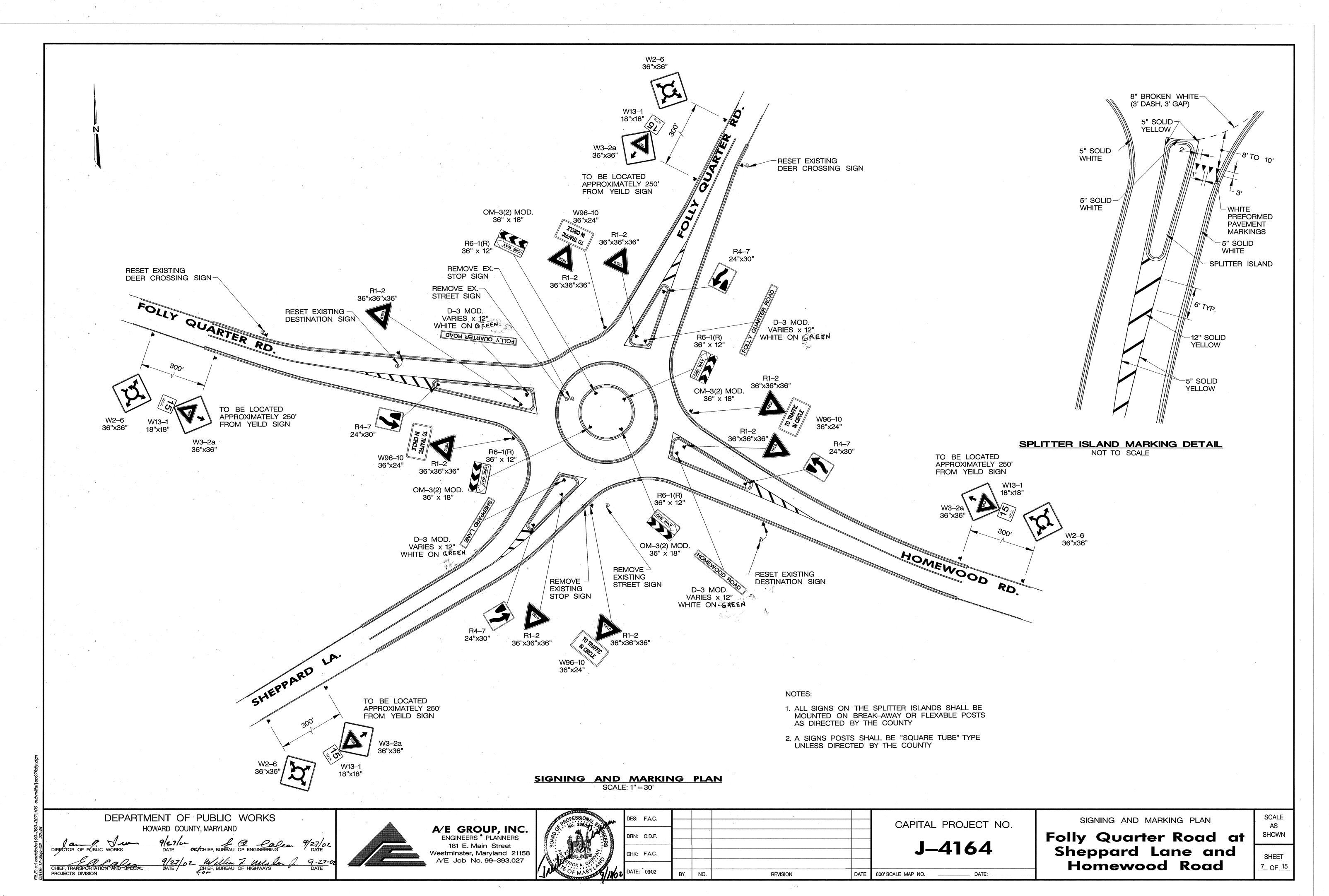
600' SCALE MAP NO.

AND NOTES

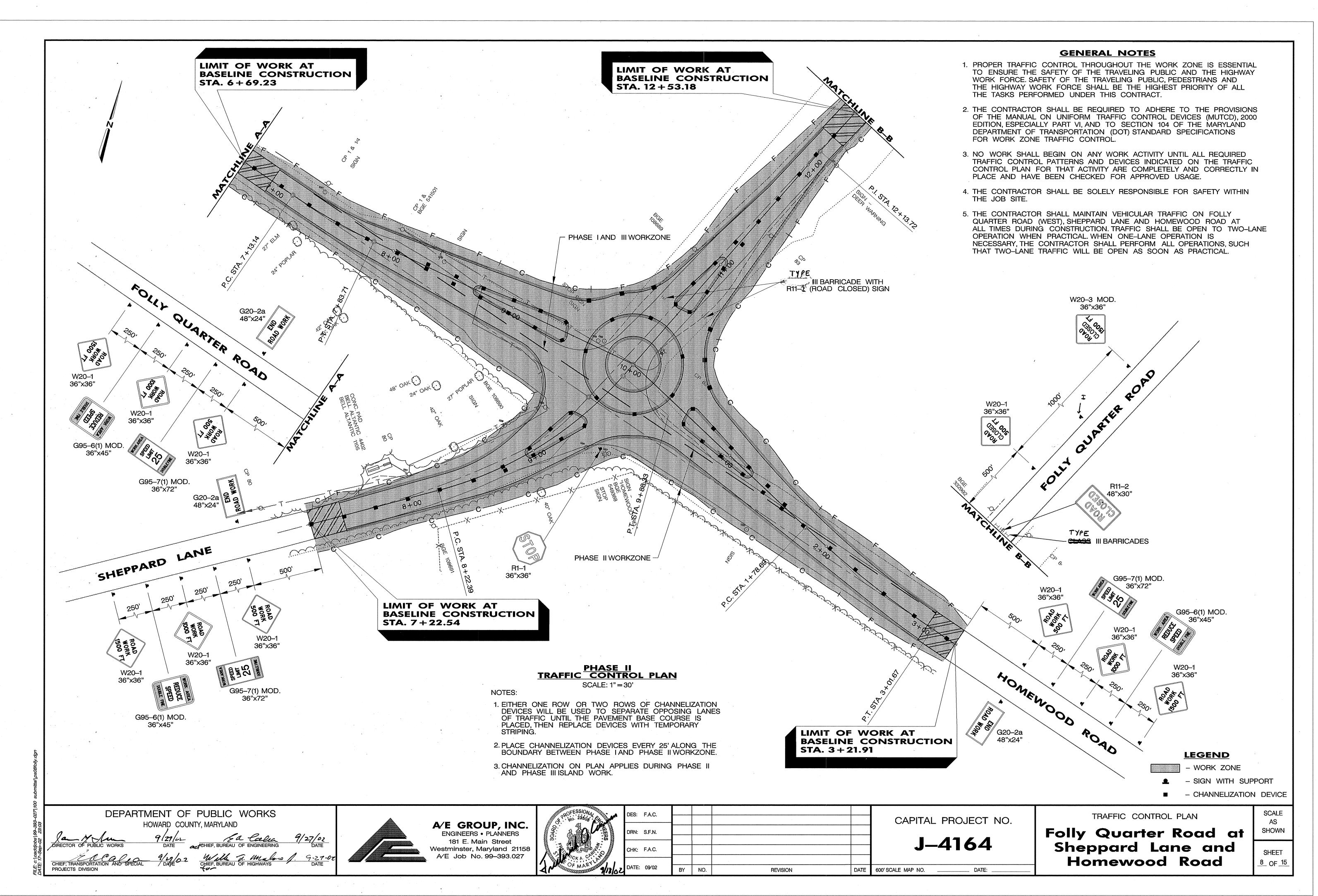
Folly Quarter Road at Sheppard Lane and **Homewood Road** 

SEDIMENT AND EROSION CONTROL DETAILS

SHEET <u>6a</u> OF <u>15</u>



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#### **GENERAL NOTES**

- CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN FOR REVIEW AND APPROVAL BY THE HOWARD COUNTY ENGINEER.
- 2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR WILL CLOSE THE FOLLY QUARTER NORTH APPROACH. THIS APPROACH WILL REMAIN CLOSED UNTIL THE COUNTY DEEMS THAT IT IS SAFE TO OPEN THE ROAD TO THROUGH TRAFFIC.
- 3. DURING CONSTRUCTION, THE CONTRACTOR SHALL SIGN ALL FOUR APPROACHES TO THE INTERSECTION FOLLOWING SHEET 8 OF THE CONTRACT DRAWINGS.
- 4. AT THE DIRECTION OF THE COUNTY, THE CONTRACTOR MAY LEAVE THE EXISTING PAVEMENT UNDER THE ROUNDABOUT MEDIAN ISLAND IN PLACE IF IT IS RUBBILIZED SO THAT NO PARTICLE HAS A DIAMETER GREATER THAN 6 INCHES. THE REMAINING PAVEMENT MAY BE REMOVED BUT IN NO CASE SHALL THE EXISTING GRAVEL AGGREGATE BE REMOVED.

- SET UP THE SIGNING AND CHANNELIZING DEVICES AS SHOWN ON SHEET 8 COVER OR REMOVE EXISTING SIGNS THAT DO NOT APPLY PLACE CHANNELIZATION DEVICES EVERY 25' ALONG THE NORTH SIDE OF FOLLY QUARTER ROAD AND HOMEWOOD ROAD.
- I-2 CONSTRUCT THE NORTH SIDE OF THE WORK AREA TO THE TOP OF THE NEW GRAVEL AGGREGATE BASE.
- I-3 PLACE EROSION MATERIALS AND COVER THE NON-DRIVING AREAS WITH GRASS.

#### PHASE II

- II-1 REMOVE THE EXISTING PAVEMENT ON FOLLY QUARTER ROAD FORM STATION 7+00 TO 10+00 ON SHEPPARD LANE FORM STATION 7+50 TO 10+00 AND HOMEWOOD ROAD FROM STATION 0+00 TO 3+00. USING THE TYPICAL SECTION ON SHEET 9 GRADE THE INTERSECTION IN ONE FOOT (1') LIFTS. TRANSFER TRAFFIC TO THE AGGREGATE BASE SURFACE BUILT IN PHASE I AS SOON AS PRACTICAL. THE MAXIMUM GRADE DIFFERENCE BETWEEN ABUTTING SHOULD BE NO MORE THAN ONE FOOT (1'). USE THE CHANNELIZATION DEVICES TO SEPARATE THE TRAVEL LANES.
- II-2 ONCE THE GRADING WORK IS COMPLETE STABILIZE THE NON-DRIVING AREA WITH GRASS AS REQUIRED AND STABILIZE THE DRIVING AREA WITH CALCIUM CHLORIDE.

- II-3 MILL THE REMAINING PAVEMENT AND PLACE THE AGGREGATE BASE
- II-4 ONCE THE AGGREGATE BASE IS SET CONSTRUCT ALL THE CONCRETE CURB AND GUTTER ON SHEPPARD LANE AND THE SOUTH SIDE OF FOLLY QUARTER ROAD AND HOMEWOOD ROAD AND THE SHEPPARD LANE SPLITTER ISLANDS.
- II-5 PLACE THE BITUMINOUS CONCRETE BASE COURSE IN TWO LIFTS. PLACE TEMPORARY STRIPING AS DIRECTED BY THE ENGINEER.

#### PHASE III

- III-1 SHIFT TRAFFIC TO THE PAVEMENT SURFACE BUILT IN PHASE II.
- III-2 CONSTRUCT SPLITTER ISLANDS, THREE-QUARTERS OF THE MEDIAN ISLAND AND EDGE CURBING.
- III-3 PLACE PAVEMENT BASE COURSES AND SURFACE COURSE
- III-4 PLACE PERMANENT STRIPING, DELINEATION AND SIGNING ON FOLLY QUARTER ROAD NORTH APPROACH.
- III-5 SHIFT TRAFFIC TO THE NORTH AND COMPLETE WORK ON MEDIAN ISLAND.

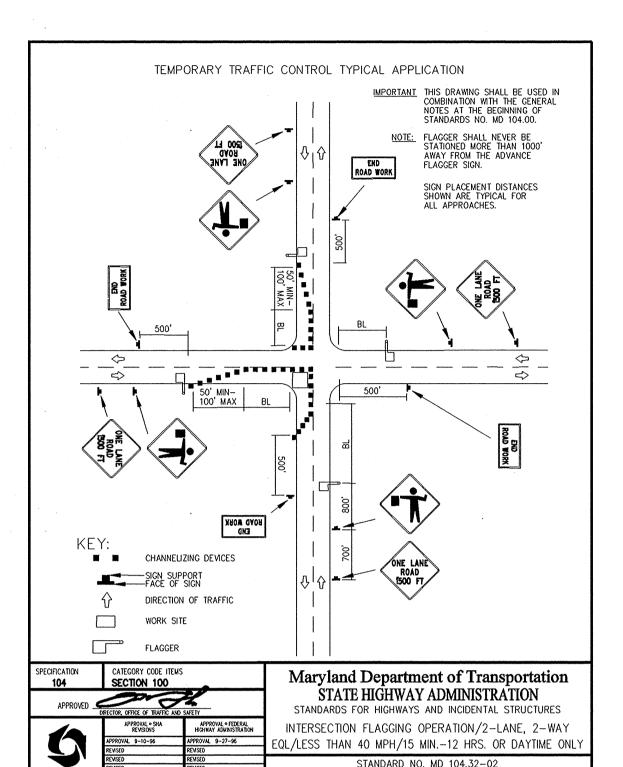
- IV.1 SET UP THE SIGNING AND CHANNELING DEVICES AS SHOWN ON MSHA STANDARD 104.32-02 FOR THE THREE APPROACHES WHEN NECESSARY. PLACE THE BITUMINOUS CONCRÈTE SURFACE COURSE OVER THE ENTIRE AREA OF BASE COURSE.
- IV.2 PLACE FINAL STRIPING, SIGNING AND DELINEATION DEVICES.
- IV.3 DO FINAL GRADING, TOPSOIL AND SEEDING.
- IV.4 REMOVE TEMPORARY EROSION CONTROL DEVICES AND TEMPORARY SIGNING AS DIRECTED BY HOWARD COUNTY.

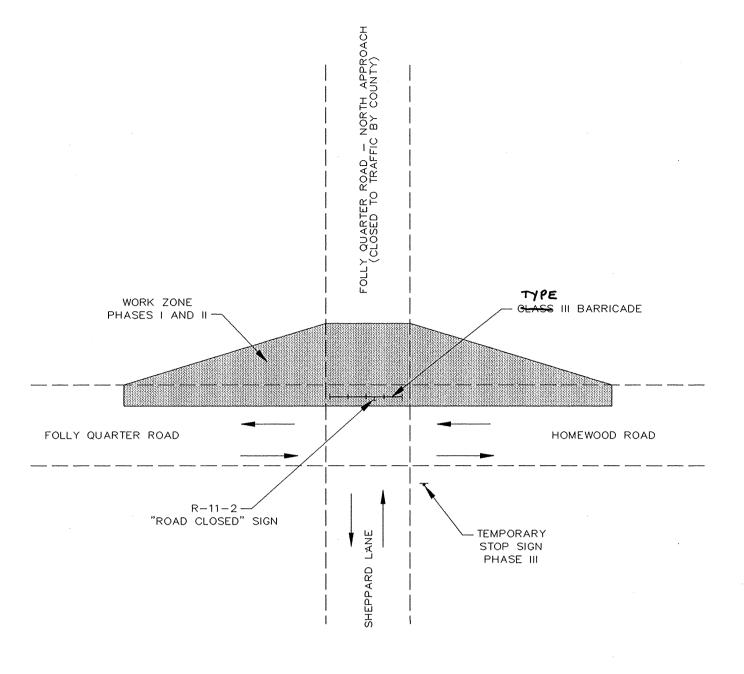
## **NOTES**



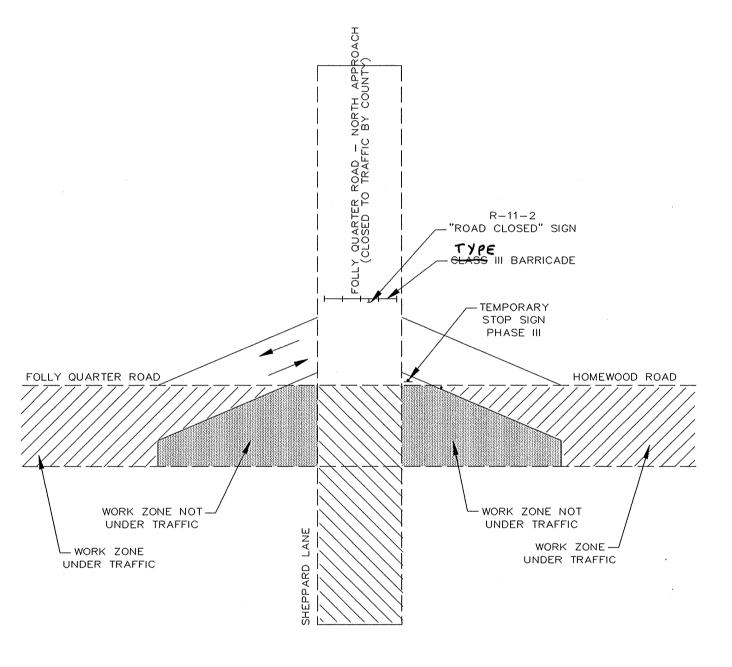


- 1. THE HOWARD COUNTY ENGINEER HAS THE OPTION OF PLACING ONE OR BOTH OF THESE SIGNS ON FOLLY QUARTER ROAD, SHEPPARD LANE AND HOMEWOOD ROAD WHILE THE PUBLIC IS TRAVELING ON THE NATIVE GROUND OR GRAVEL AGGREGATE SURFACE AS A SUPPLEMENT TO PHASE LAND PHASE II SIGNING.
- 2. THE CONTRACTOR SHALL SCHEDULE THE WORK OPERATIONS TO MINIMIZE THE TIME WHEN THE PUBLIC IS TRAVELING ON THE GRAVEL AGGREGATE SURFACE IN NO CASE SHOULD TRAVEL ON THE NATIVE GROUND OR THE GRAVEL SURFACE OCCUR OVER A HOLIDAY WEEKEND.
- 3. AT THE DIRECTION OF THE HOWARD COUNTY ENGINEER, THE CONTRACTOR MAY RETURN AT ANY TIME TO REAPPLY CALCIUM CHLORIDE AND/OR WATER TO THE NAIVE GROUND OR THE GRAVEL AGGREGATE SURFACE IF IN THE OPINION OF THE ENGINEER TOO MUCH DUST IS BEING RAISED BY MOVING VEHICLES.

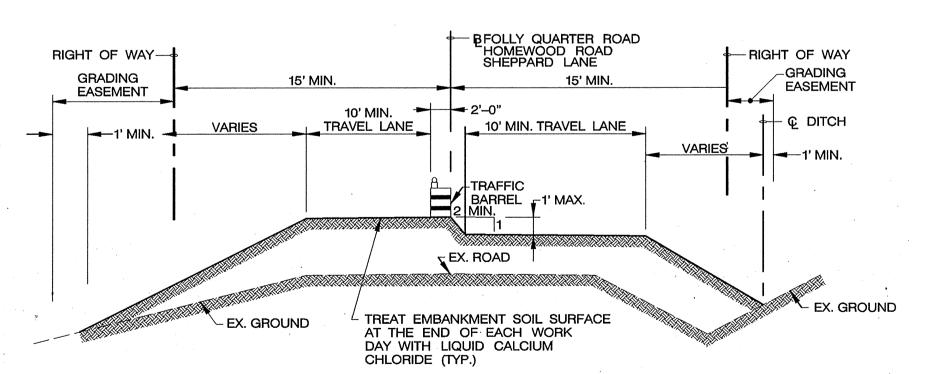




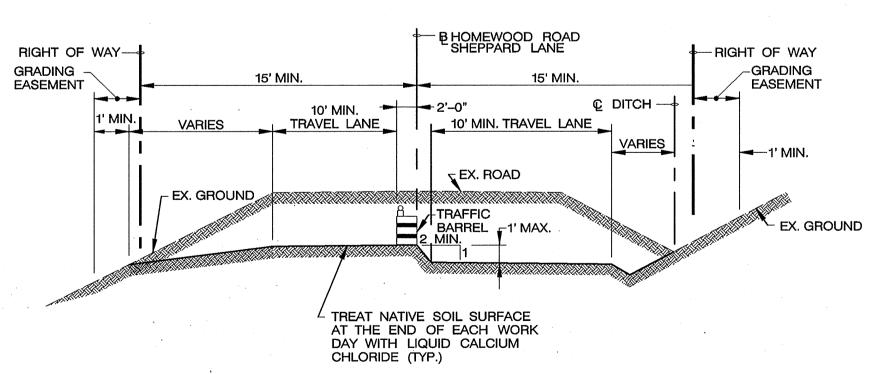
PHASE I AND III TRAFFIC CONTROL NOT TO SCALE



PHASE II TRAFFIC CONTROL NOT TO SCALE



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TYPICAL TRAFFIC CONTROL SECTION FOR PHASE II EXCAVATION NOT TO SCALE

NO.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND



A/E GROUP, INC. **ENGINEERS • PLANNERS** 181 E. Main Street Westminster, Maryland 21158 A/E Job No. 99-393.027



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	CHK: F.A.C.		

REVISION

CAPITAL PROJECT NO.

DATE:

J-4164

DATE 600' SCALE MAP NO.

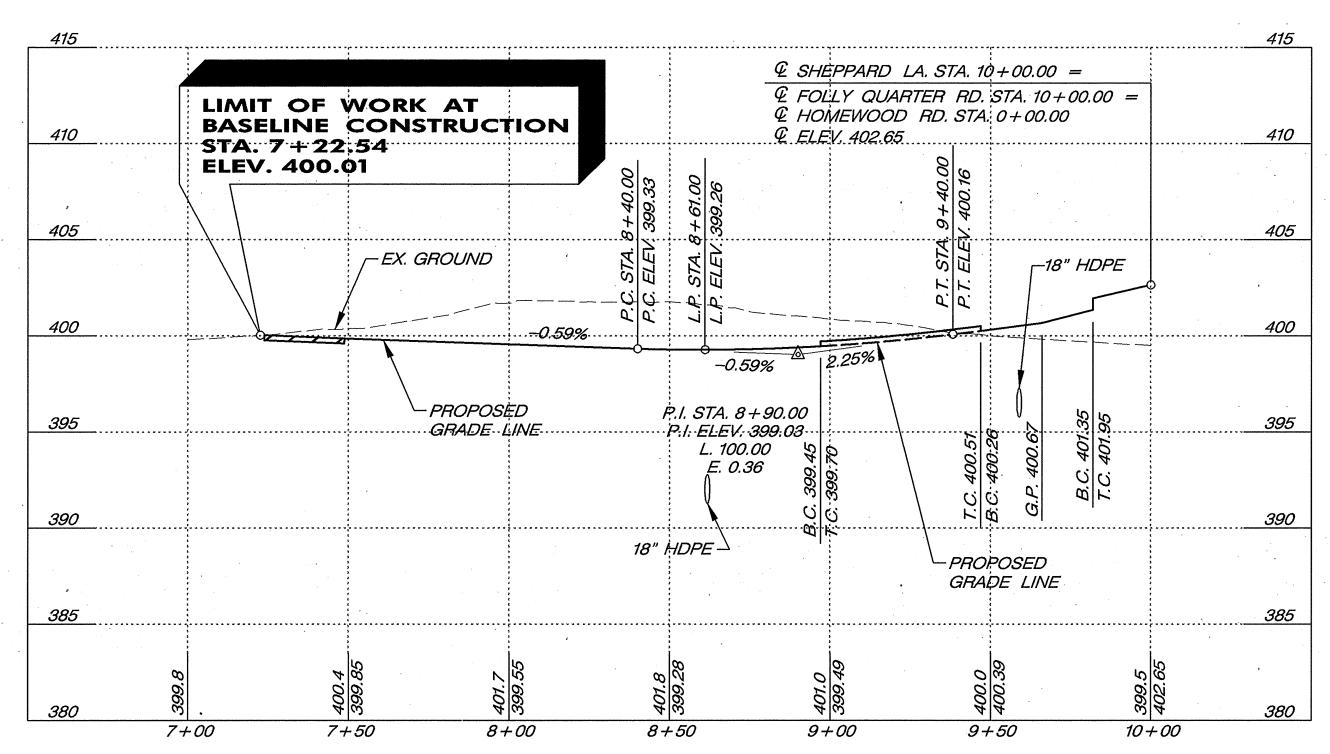
Folly Quarter Road at Sheppard Lane and **Homewood Road** 

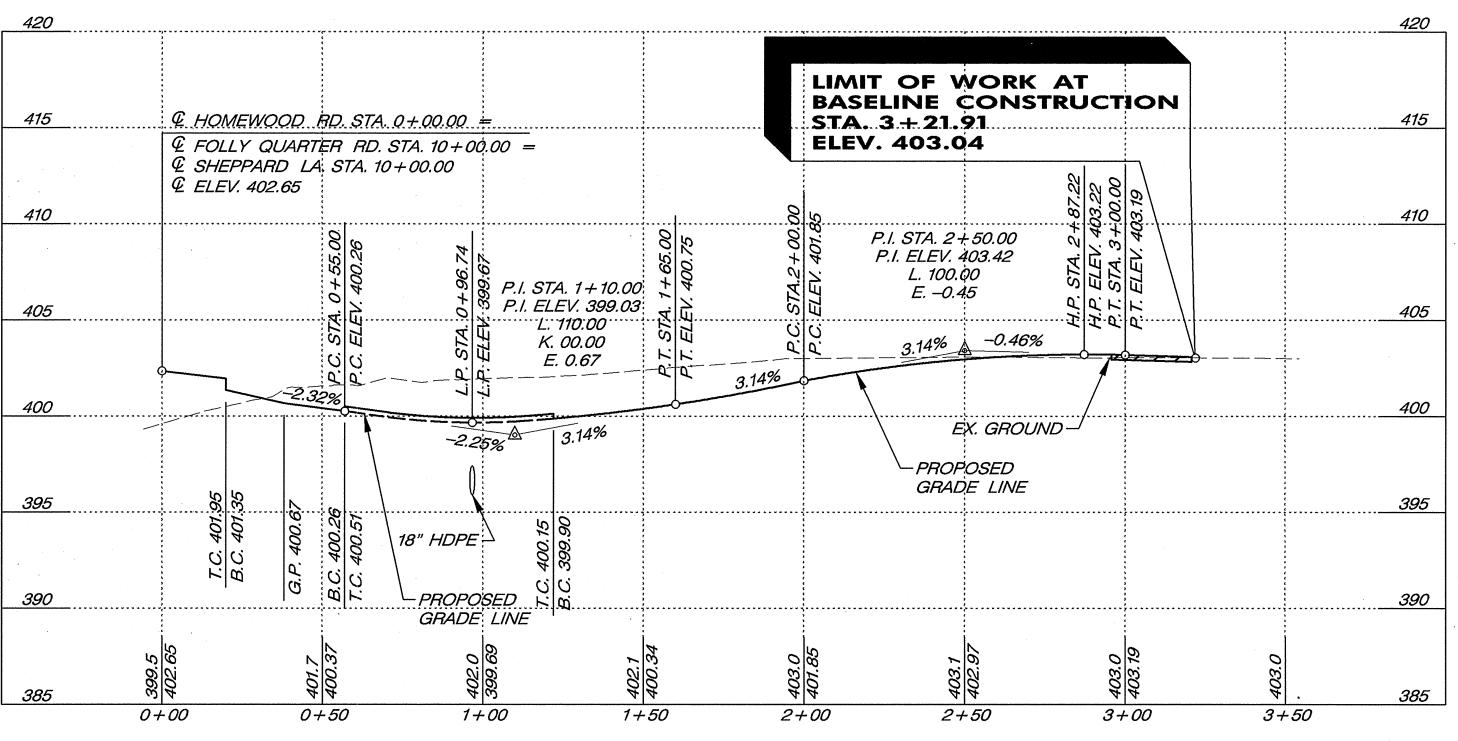
TRAFFIC CONTROL DETAILS AND NOTES

SCALE SHOWN SHEET

<u>9</u> OF <u>15</u>

€ FOLLY QUARTER RD. STA. 10+00.00 ÷  $\mathcal{Q}$  HOMEWOOD RD. STA. 0+00.00 =Q SHEPPARD LA. STA. 10 + 00.00 LIMIT OF WORK AT  $\mathcal{Q}$  FOLLY QUARTER RD. STA. 10 + 00.00 =LIMIT OF WORK AT @ ELEV. 402.65 410 410 410 410 BASELINE CONSTRUCTION - Q. HOMEWOOD - RD. STA. 0+00.00 BASELINE CONSTRUCTION STA. 6 + 69.23€ SHEPPARD LA, STA. 10+00.00 STA. 12 + 53.18 **ELEV. 392.30** *€ ELEV. 402.65* ELEV. 394.45 405 405 405 405 \_EX. GROUND P.I. STA. 12+00.00 P.I. STA. 8+50.00 P.I. ELEV. 397.00 P.I. ELEV. 396.15 L. 100.00 400 400 400 400 .L. 125.00 E:-0.32 E. 0.29 PROPOSED GRADE LINE 395 395 395 EX. GROUND -390 390 *390* 390 \\_PROPOSED -PROPOSED 385 GRADE LINE GRADE LINE 380 380 380 380 8+00 10 + 009+009 + 50*10 + 50 11 + 00 11 + 50* 12+00 12+50 13 + 00 FOLLY QUARTER ROAD PROFILES SCALE: HORZ. 1" = 30"VERT. 1" = 5"415 € FOLLY QUARTER RD. STA. 10+00.00 = LIMIT OF WORK AT LIMIT OF WORK AT € HOMEWOOD RD. STA; 0+00.00 BASELINE CONSTRUCTION BASELINE CONSTRUCTION *Q ELEV. 402.65* 410 € HOMEWOOD RD STA 0+00.00 = 410 415 STA. 3 + 21.91 STA. 7+22.54 **ELEV. 403.04** € FOLLY QUARTER RD. STA. 10+00.00 = ELEV. 400.01 € SHEPPARD LA STA. 10+00.00 *€ ELEV. 402.65* 405 405 410 P.I. STA. 2 + 50.00 P.I. ELEV. 403.42 – EX. GROUND L. 100.Q0 P.I. STA. 1+10.00 E. -0.45 P.I. ELEV. 399.03 L. 110.00 405 400 400 OZ Z Z 3.14% -0.46% 12.25% -0.59%





SHEPPARD LANE PROFILE

SCALE: HORZ. 1" = 30'

VERT. 1" = 5'

HOMEWOOD ROAD PROFILE

SCALE: HORZ. 1" = 30'

VERT. 1" = 5'

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

A M Low 9/27/02 LG Gela 9/27/02

ARTMENT OF PUBLIC WORKS DATE ad-CHIEF, BUREAU OF ENGINEERING DATE

LOCALIA 9/27/02 Willia 7. Walls J. 9-27-07

EF, TRANSPORTATION AND SPECIAL DATE CHIEF, BUREAU OF HIGHWAYS DATE



A/E GROUP, INC.

ENGINEERS • PLANNERS

181 E. Main Street

Westminster, Maryland 21158

A/E Job No. 99–393.027



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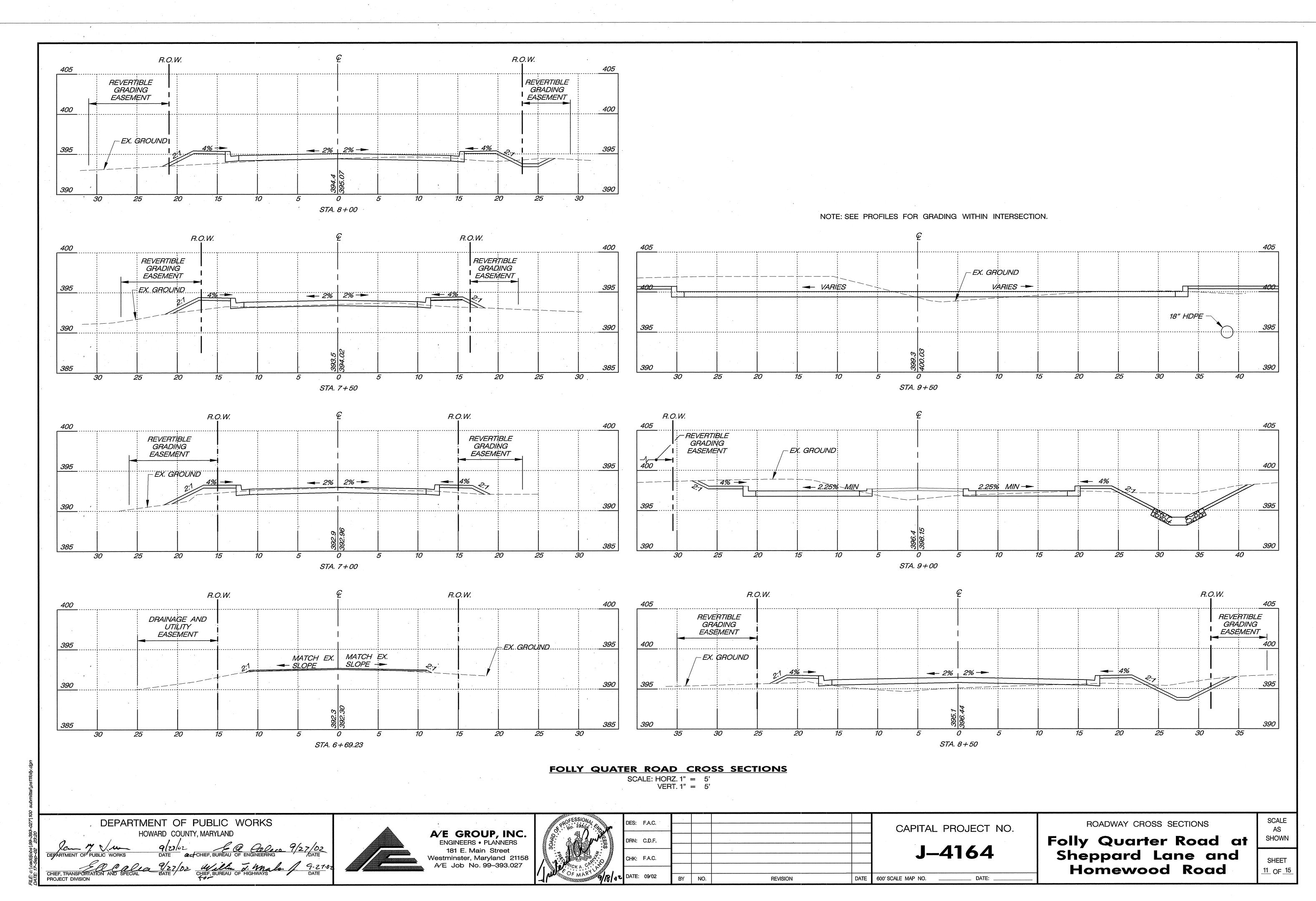
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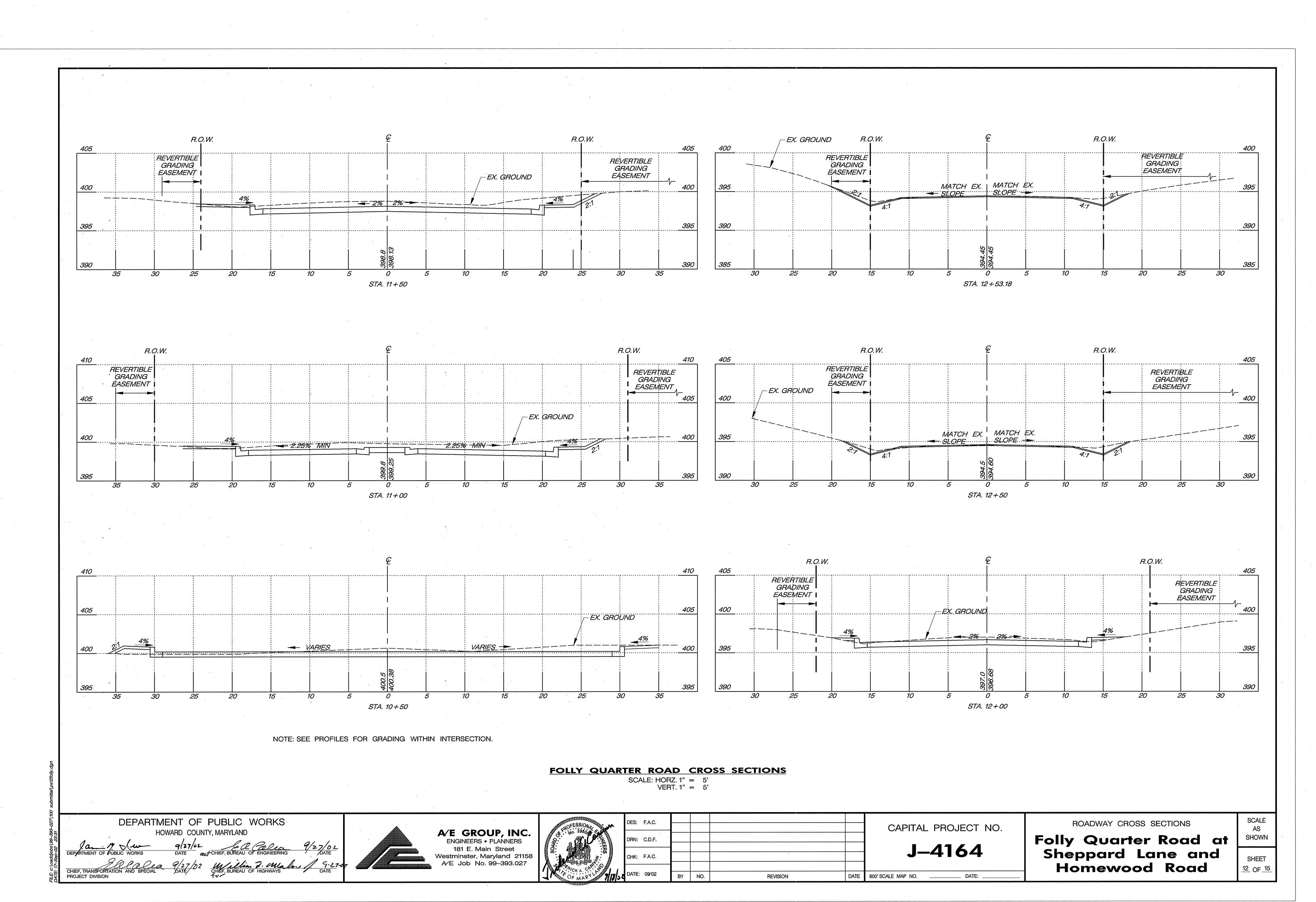
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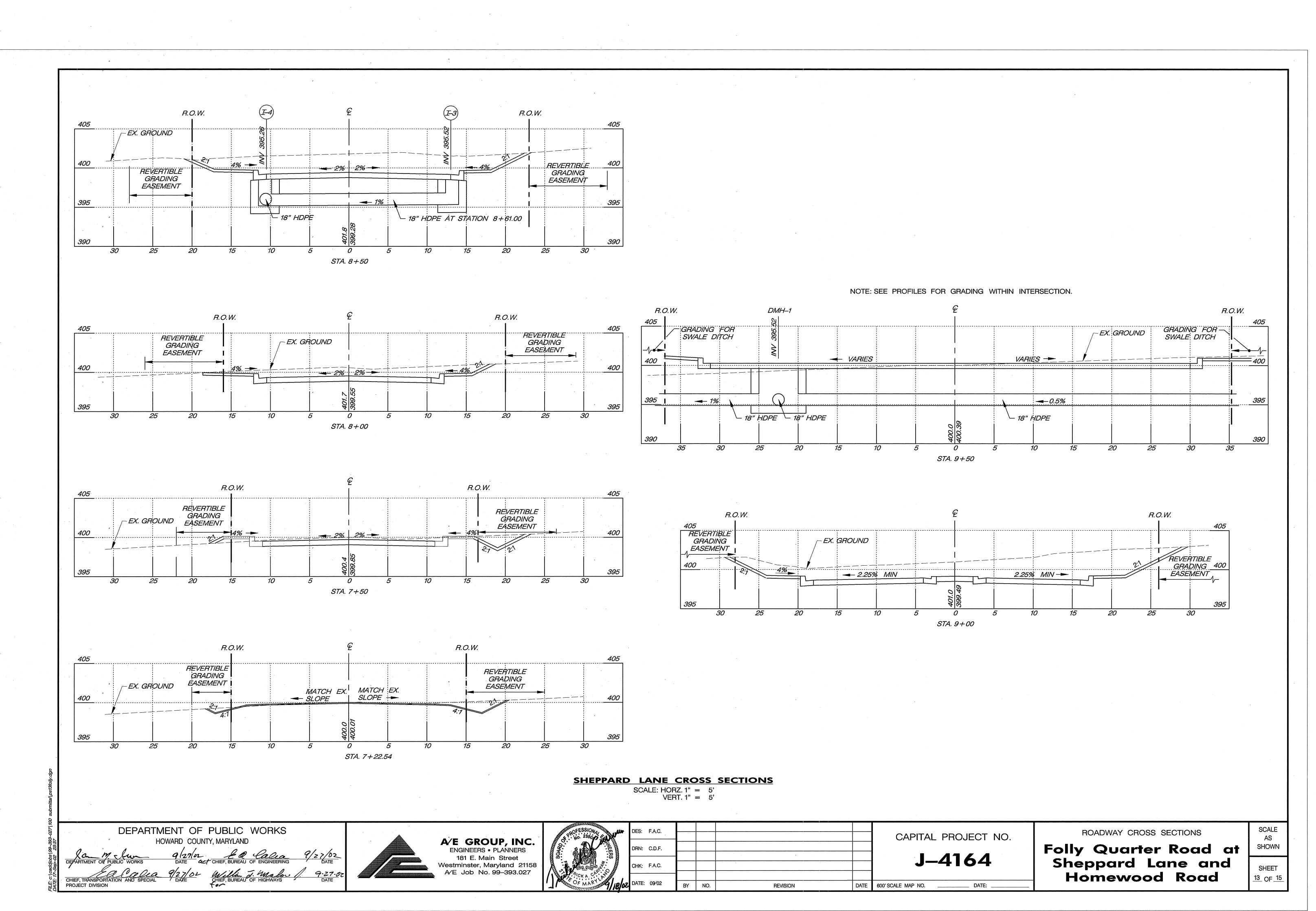
Folly Quarter Road at Sheppard Lane and Homewood Road

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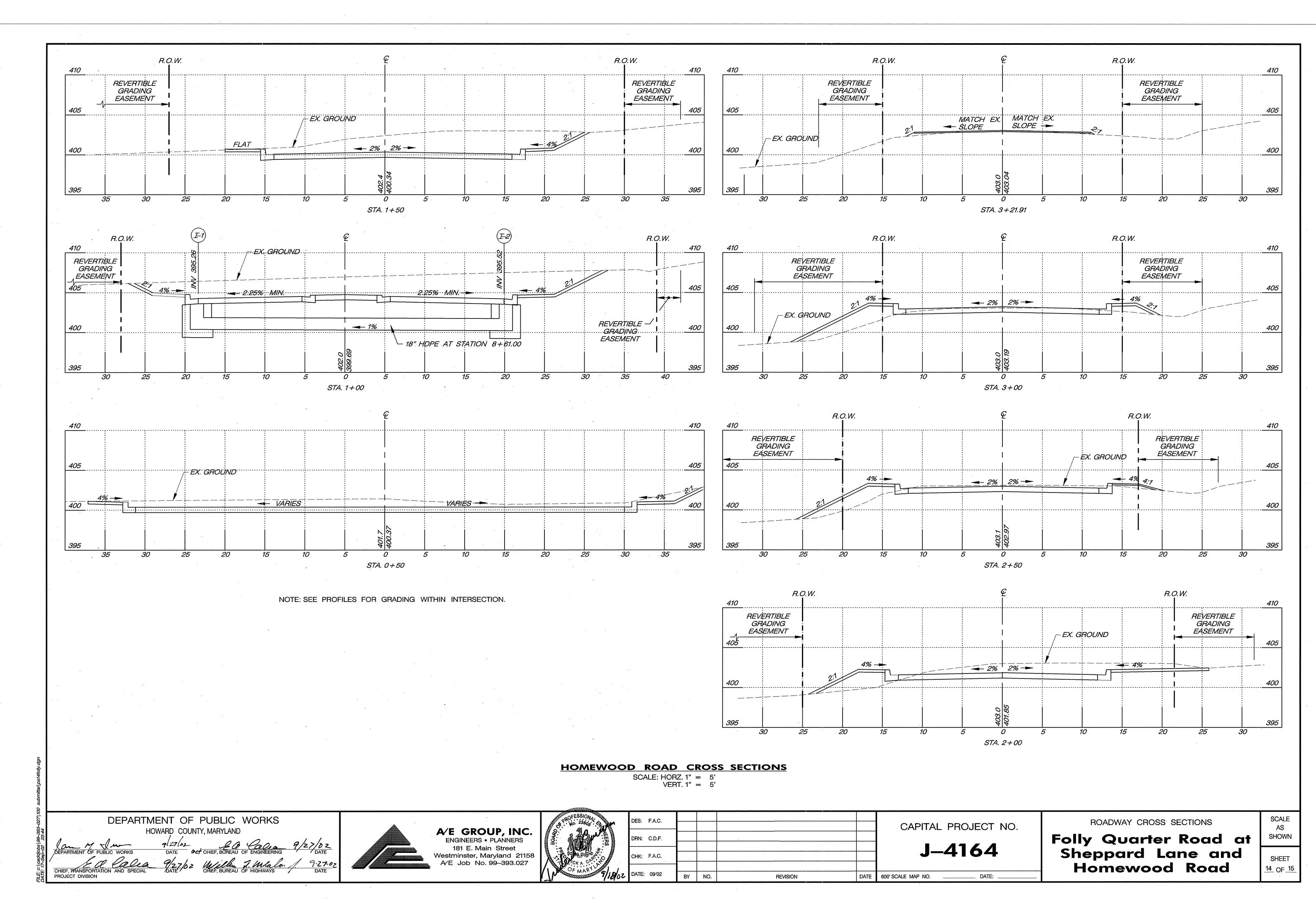


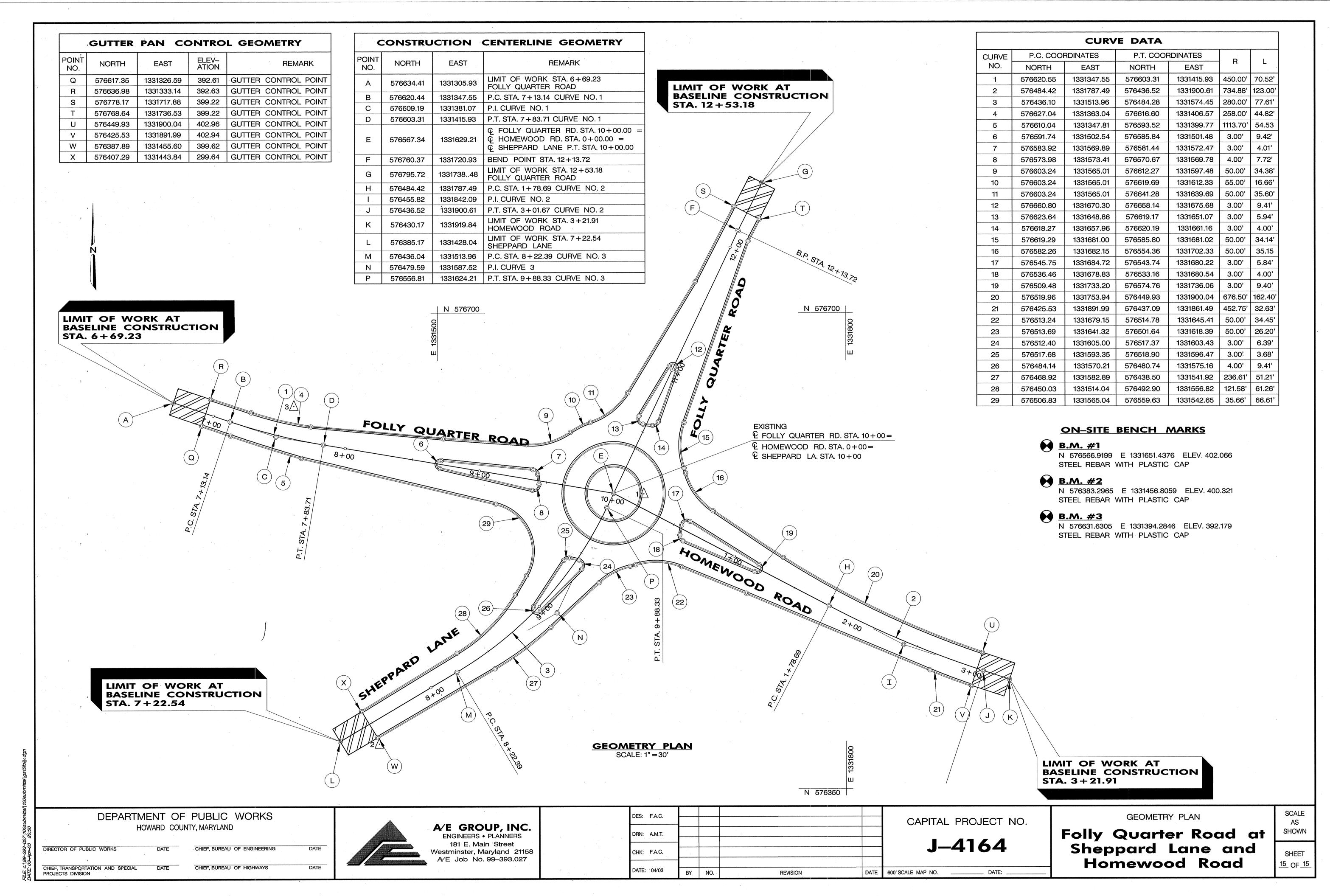


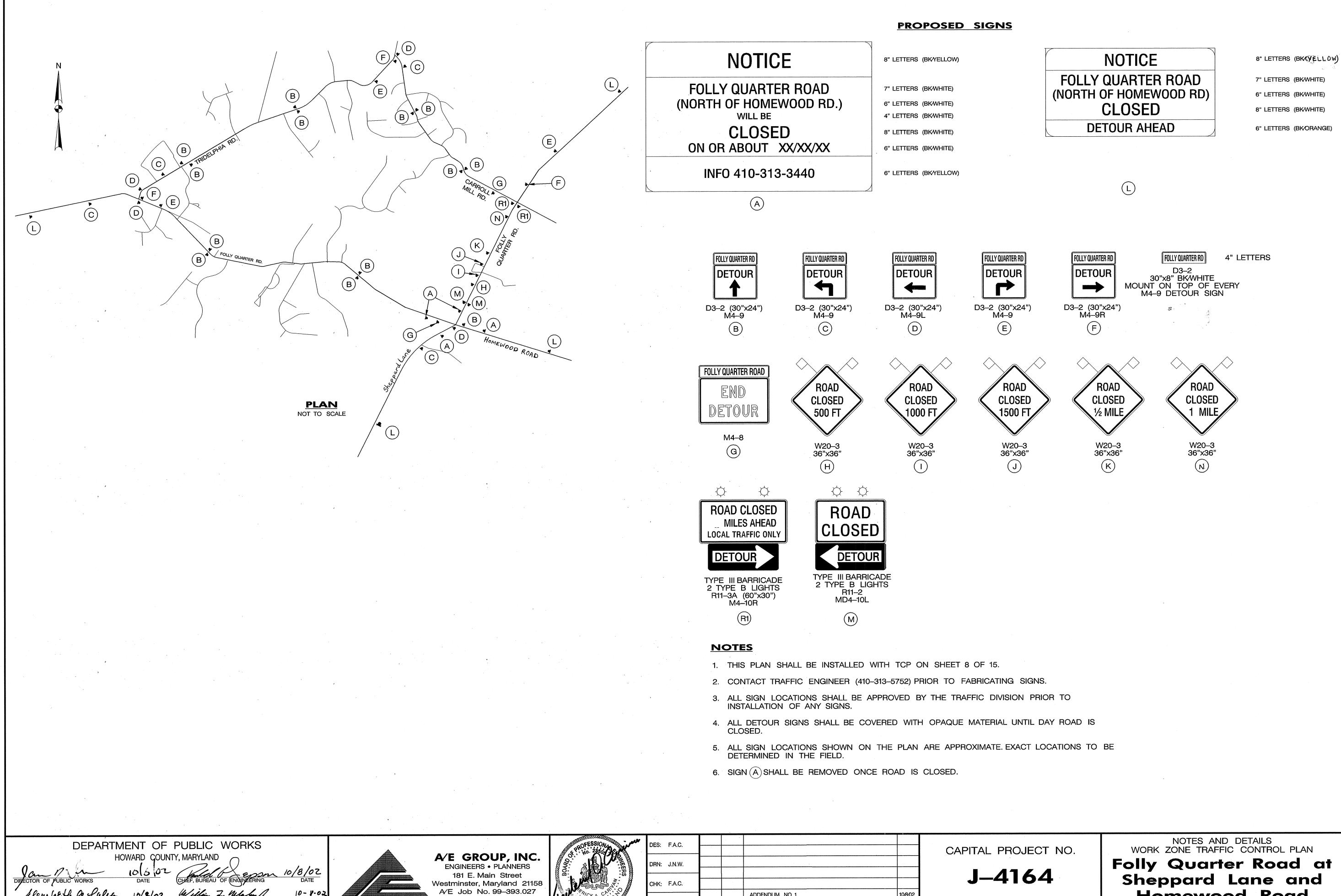
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ADDENDUM NO. 1

REVISION

Sheppard Lane and Homewood Road

SHEET 1 OF 1

SCALE

SHOWN