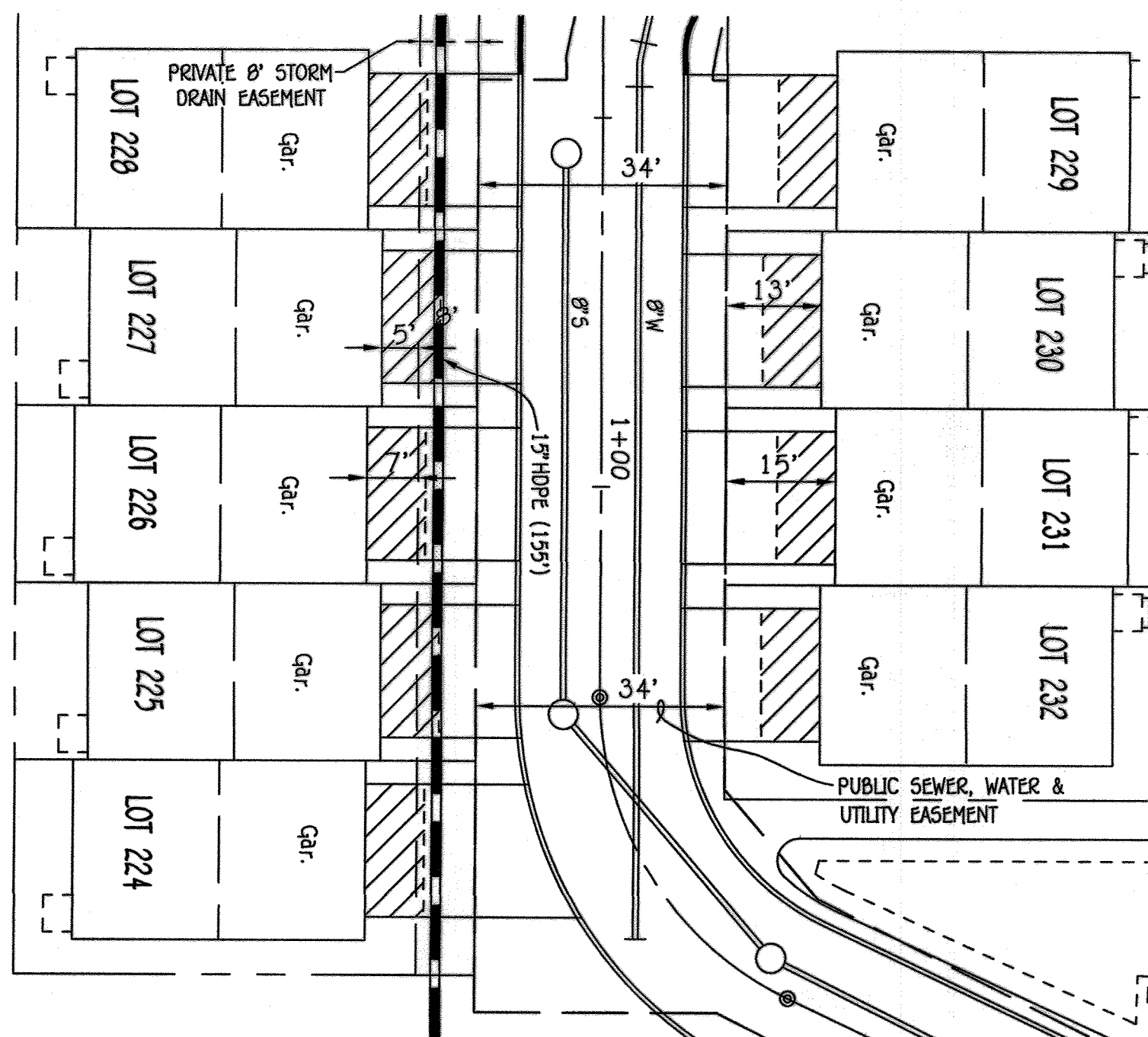


8 UNIT CONDO BUILDING



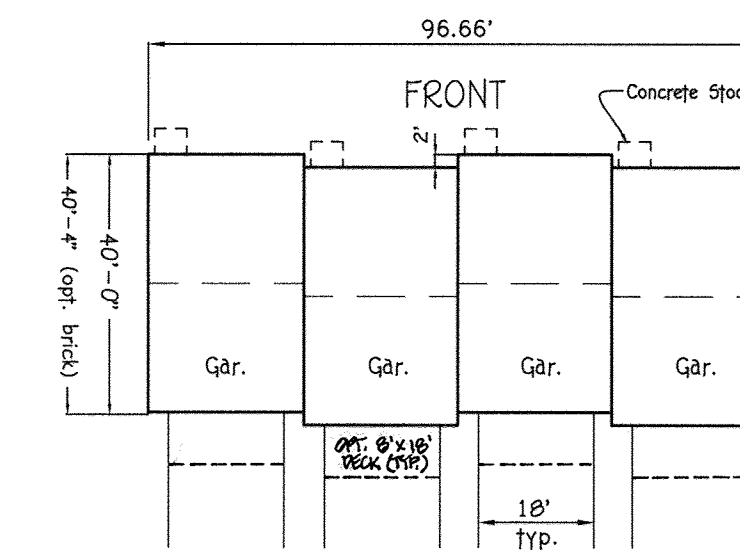
SIDE ELEVATION

NO SCALE

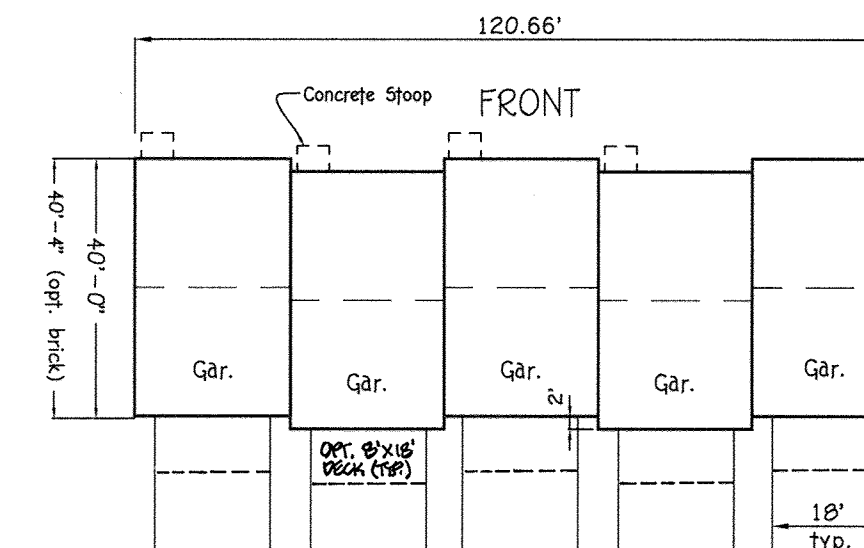


DECK LOCATION PLAN

SCALE: 1" = 20'



4 UNIT TOWNHOUSES



5 UNIT TOWNHOUSES



DECK LOCATION PLAN

SCALE: 1" = 20'

SHHED DENOTES 8'x10' DECK



SIDE ELEVATION

NO SCALE

NOTE:  
PROPOSED DECK SUPPORTS SHALL NOT BE LOCATED WITHIN A PRIVATE STORM DRAIN EASEMENT. (SEE TO SCALE PLAN VIEW, THIS SHEET)

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2895



AS-BUILT CERTIFICATION FOR PSWM

Note: This is per 7-25 B.U. information provided.

*Michael J. Fisher*  
ALDO M. VILLAGEI, No. 00780  
Date: 4/10/17

Owner/Builder

Lesnor  
10211 Wincoan Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

Developer

Lesnor  
10211 Wincoan Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Vicki J. Jaffe*  
Chief, Division of Land Development  
Date: 9-23-15

*Michael J. Fisher*  
Chief, Development Engineering Division  
Date: 7-8-15

*Vicki J. Jaffe*  
Director - Department of Planning and Zoning  
Date: 9-24-15

SUBDIVISION		PARCEL NO.		LOT NOS.	
OXFORD SQUARE		'C'		LOTS 224-241 & CONDO. BLDGS. 1-3	
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
23450-23451	---	TOD	44	1st.	601101

BUILDING ELEVATIONS

OXFORD SQUARE

"A Howard County Green Neighborhood"  
Lots 224-241, Open Space Lots 242 & 243  
And Parcel 'U'

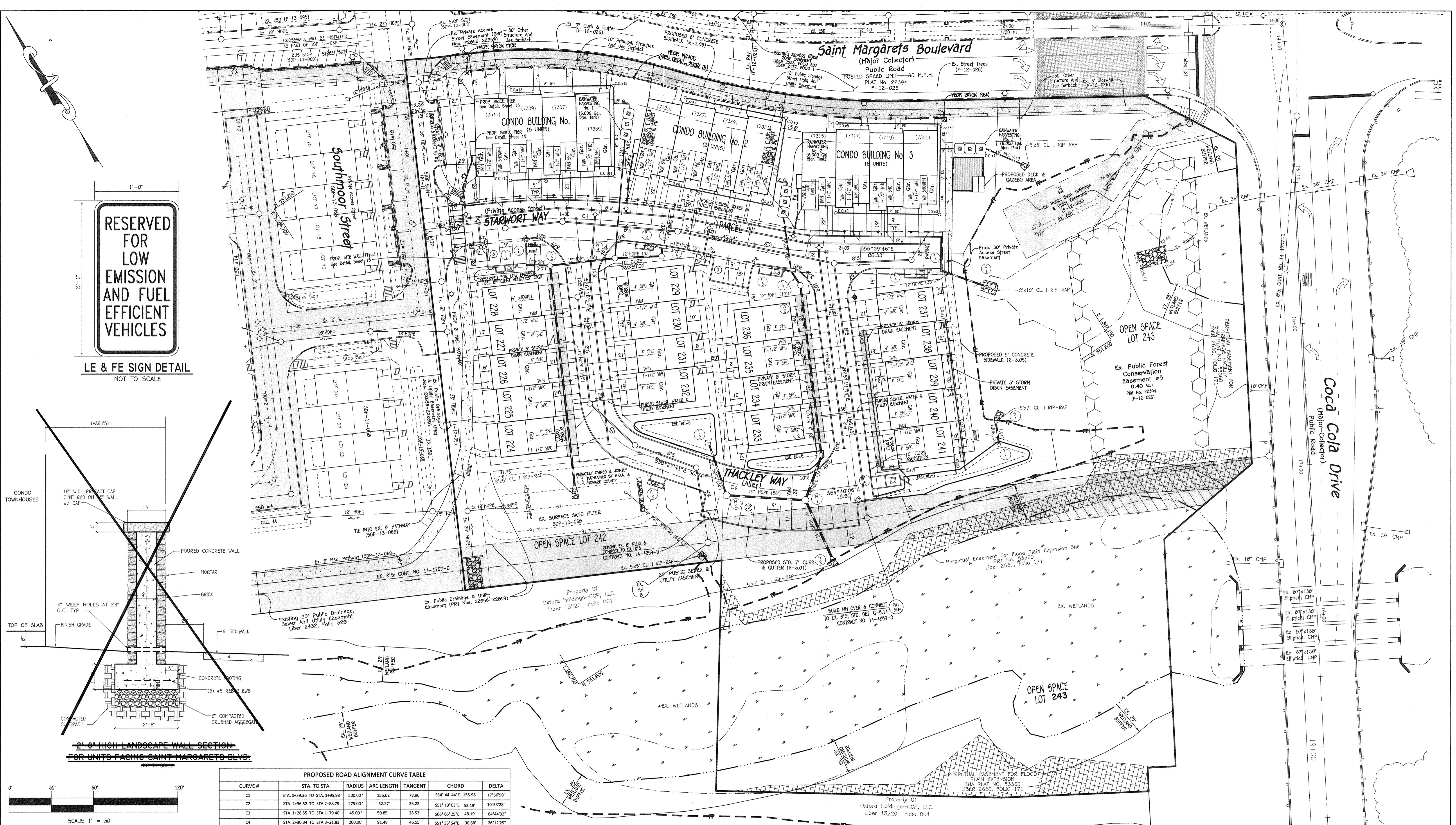
(Being A Resubdivision Of Parcel 'C', As Shown On Plans Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels 'C', 'E', 'F', 'G', 'I', 'J', 'K' And 'M' And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 2285E, Thru 2285J.)

Zoned: TOD  
Tax Map No.: 3B Grid No.: 20 Parcel No.: 1003  
First Election District: Howard County, Maryland

Scale: As Shown  
Date: May 7, 2015  
Sheet 2 Of 20

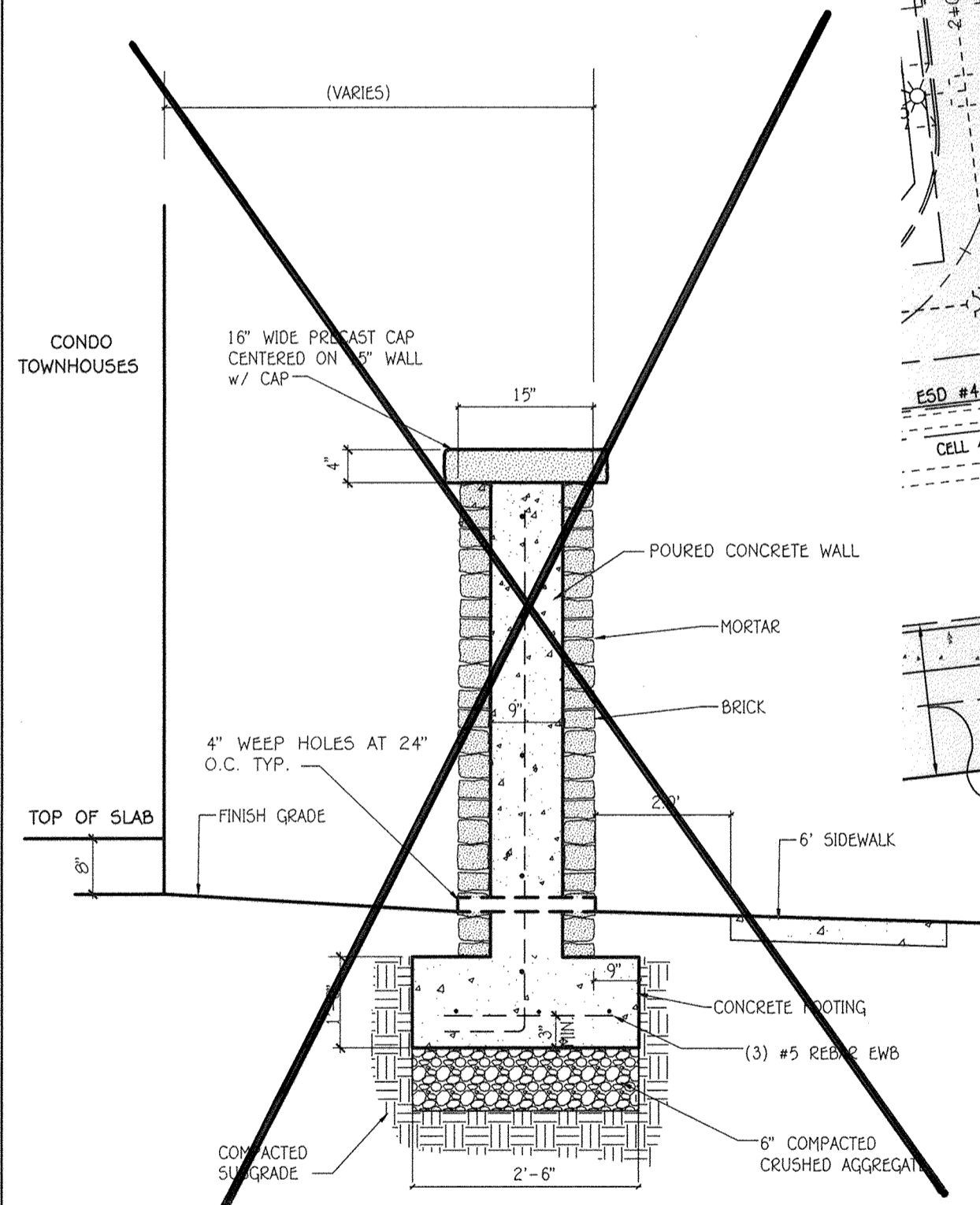
NO.	REVISION	DATE
1	ADDED OPTIONAL DECK TO TOWNHOUSE UNITS	1/10/17

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

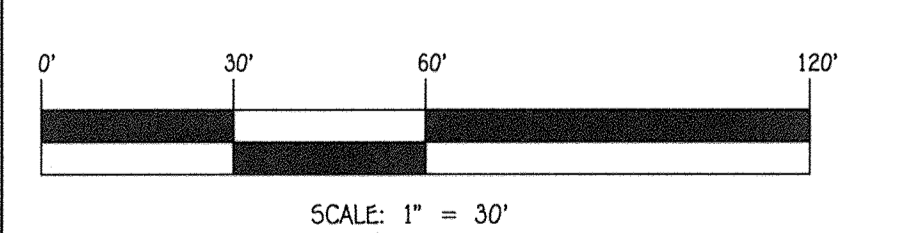


**RESERVED FOR LOW EMISSION AND FUEL EFFICIENT VEHICLES**

**LE & FE SIGN DETAIL**  
NOT TO SCALE



**2' HIGH LANDSCAPE WALL SECTION FOR UNITS FACING SAINT MARGARETS BLVD.**



CURVE #	STA. TO STA.	RADIUS	ARC LENGTH	TANGENT	CHORD	DELTA
C1	STA. 0+39.36 TO STA. 1+95.98	500.00'	156.62'	78.96'	554' 44" 44"	175°50'
C2	STA. 2+36.52 TO STA. 2+88.79	276.00'	52.27'	26.22'	551' 13" 03"	10°53'28"
C3	STA. 1+28.55 TO STA. 1+79.40	45.00'	50.85'	28.53'	506' 05" 25"	64°44'32"
C4	STA. 2+30.34 TO STA. 3+21.82	200.00'	91.48'	46.55'	551' 33" 54"	26°12'25"

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK, 10722 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21114  
(410) 461-2895



**AS-BUILT CERTIFICATION FOR PSWM**  
Note: There is no "AS BUILT" information provided on this sheet.  
*Alvin M. Viscusi*  
ALVIN M. VISCUCCI, No. 107146  
Date: 4/10/17

**Owner/Builder**  
Lennar  
10211 Wincopin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

**Developer**  
Lennar  
10211 Wincopin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Vatchel D. ...*  
Chief, Division of Land Development  
Date: 9-23-15

*...*  
Chief, Development Engineering Division  
Date: 7-8-15

*Valerie J. ...*  
Director - Department of Planning and Zoning  
Date: 9-24-15

**GEOMETRY PLAN**

**OXFORD SQUARE**  
"A Howard County Green Neighborhood"  
Lots 224-241, Open Space Lots 242 & 243  
And Parcel "U"

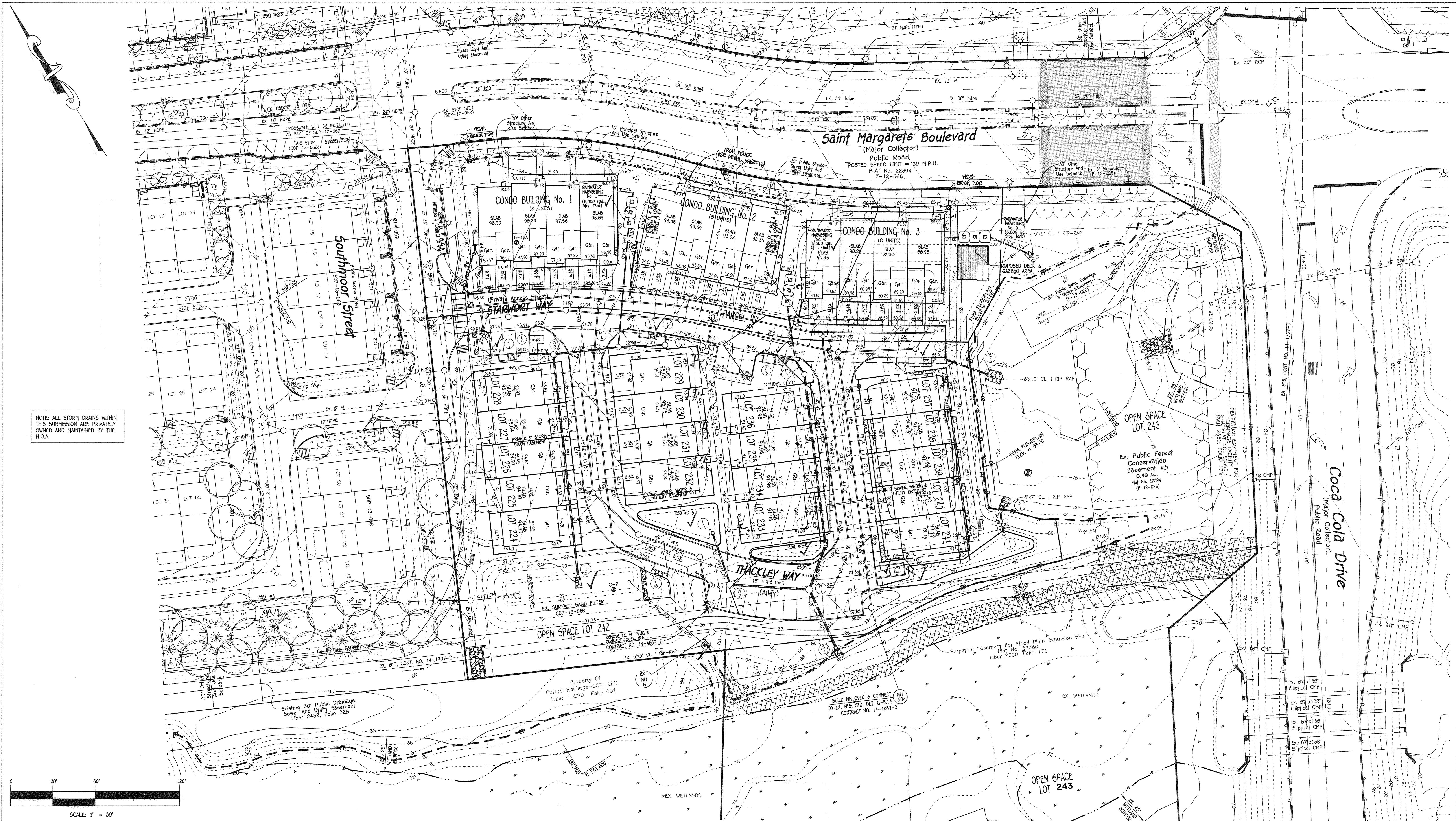
(Being A Resubdivision Of Parcel "C", As Shown On Plans Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels "C", "E", "F", "G", "H", "I", "J", "K" And "M" And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22856, Thru 22889.)

Zoned: TOD

Tax Map No.: 3B Grid No.: 20 Parcel No.: 1003  
First Election District: Howard County, Maryland  
Scale: As Shown  
Date: May 7, 2015  
Sheet 3 of 20

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

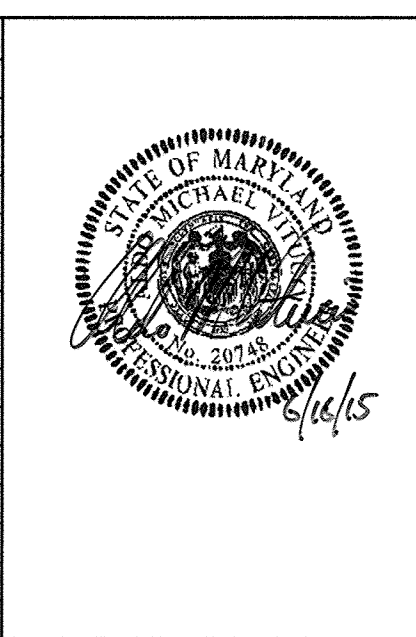
I:\2009\0901\tdwg\SDP (Lennar) Parcel C.doc 17:20:14 sdp per winter change\0901\4\_Sheet 3\_geometry plan.dwg, C-03\_SDP-14-071 sheet 3, 5/8/2015 11:34:39 AM, 1:1



NOTE: ALL STORM DRAINS WITHIN THIS SUBMISSION ARE PRIVATELY OWNED AND MAINTAINED BY THE H.O.A.

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL, ENGINEERING, CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21046  
 (410) 461-2895

NO.	REVISION	DATE
1	REPLACE STORM WALL WITH PERMANENT WALL AND STORM DRAINAGE	1/10/17
2	REPLACE STORM WALL WITH PERMANENT WALL AND STORM DRAINAGE	1/10/17



**AS-BUILT CERTIFICATION FOR PSWIM**  
 I hereby certify that the facility shown on the plan was constructed as shown on the "AS BUILT" plans and complies with the approved plans and specifications. I have verified that the contributing drainage area is sufficiently stabilized to prevent clogging of the underground SWM facility.

*Adrian M. Vitale*  
 ADRIAN M. VITALE No. 107149 Date 4/10/17

<b>Owner/Builder</b>	<b>Developer</b>
Lennar 10211 Wincopin Circle, Suite 180 Columbia, Maryland 21044 Ph: 410-423-0460	Lennar 10211 Wincopin Circle, Suite 180 Columbia, Maryland 21044 Ph: 410-423-0460

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Kathleen* 9-23-15  
 Chief, Division of Land Development Date

*Paul* 7-8-15  
 Chief, Development Engineering Division Date

*Vladimir* 9-24-15  
 Director - Department of Planning and Zoning Date

SUBDIVISION	PARCEL No.	LOT Nos.
OXFORD SQUARE	C	LOTS 224-241 & CONDO. BLDGS. 1-3
PLAT NO.	BLOCK NO.	ZONE
23450-23451	---	TOD
TAX/ZONE	ELEC. DIST.	CENSUS TR.
44	1st	601101

**SITE DEVELOPMENT PLAN**  
**OXFORD SQUARE**  
 "A Howard County Green Neighborhood"  
 Lots 224-241, Open Space Lots 242 & 243  
 And Parcel 'U'

(Being A Resubdivision Of Parcel 'C', As Shown On Plats Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels 'C', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L' And 'M' And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22856 Thru 22859.)  
 Zone: TOD

Tax Map No.: 3B Grid No.: 20 Parcel No.: 1003  
 First Election District: Howard County, Maryland  
 Scale: As Shown  
 Date: May 7, 2015  
 Sheet 4 Of 20

11 "AS-BUILT" SDP-14-071



## Infiltration and Filter System Construction Specifications

Infiltration and filter systems either take advantage of existing permeable soils or create a permeable medium such as sand for infiltration. In some instances where permeability is great, these facilities may be used for flow as well. The most common systems include infiltration trenches, infiltration basins, sand filters, and organic filters.

When properly planted, vegetation will thrive and enhance the functioning of these systems. For example, pre-treatment buffers will trap sediments that often are bound with phosphorus and metals. Vegetation planted in the facility will aid in nutrient uptake and water storage. Additionally, plant roots will provide aeration for stormwater to permeate soil for groundwater recharge. Finally, successful plantings provide aesthetic value and wildlife habitat making these facilities more desirable to the public.

### Design Constraints:

- > Planting buffer strips of at least 20 feet will cause sediments to settle out before reaching the facility, thereby reducing the possibility of clogging.
- > Determine areas that will be saturated with water and water table depth so that appropriate plants may be selected (hydrology will be similar to bioretention facilities, see figure A.5 and Table A.4 for planting material guidance).
- > Plants known to send down deep taproots should be avoided in systems where filter fabric is used as part of facility design.
- > Test soil conditions to determine if soil amendments are necessary.
- > Plants shall be located so that access is possible for structure maintenance.
- > Stabilize heavy flow areas with erosion control mats or seed.
- > Temporally divert flows from seeded areas until vegetation is established.
- > See Table A.5 for additional design considerations.

### Bio-retention

#### Soil Bed Characteristics

The characteristics of the soil for the bioretention facility are perhaps as important as the facility location, size, and treatment volume. The soil must be permeable enough to allow runoff to filter through the media, while having characteristics suitable to promote and sustain a robust vegetative cover crop. In addition, much of the nutrient pollutant uptake (nitrogen and phosphorus) is accomplished through absorption and microbial activity within the soil profile. Therefore, soils must balance their chemical and physical properties to support biotic communities above and below ground.

The planting soil should be a sandy loam, loamy sand, loam (USDA), or a loam/sand mix (should contain a minimum 35 to 60% sand, by volume). The clay content for these soils should be less than 25% by volume (Environmental Resources (EQR), 1996; Engineering Technology Inc. and Biohabitat, Inc. (ET&B), 1993). Soils should fall within the SM, ML, SC classifications of the Unified Soil Classification System (USCS). A permeability of at least 1.0 feet per day (10.7 in/hr) is required (a conservative value of 0.2 feet per day is used for design). The soil should be free of stones, stumps, roots or other woody material over 1" in diameter. Brush or seeds from noxious weeds (e.g., Johnson Grass, Mugwort, Nutcase, and Canada Thistle or other noxious weeds as specified under COMAR 15.08.01.05) should not be present in the soil.

Parameter	Value
pH range	5.2 to 7.00
Organic matter	1.5 to 4.0% (by weight)
Magnesium	35 lbs. per acre, minimum
Phosphorus (phosphate - P2O5)	75 lbs. per acre, minimum
Potassium (potash - K2O)	85 lbs. per acre, minimum
Soluble salts	500 ppm
Clay	10 to 25 %
Silt	30 to 55 %
Sand	35 to 60%

### Mulch Layer

The mulch layer plays an important role in the performance of the bioretention system. The mulch layer helps retain soil moisture and avoids surface sealing, which reduces permeability. Mulch helps prevent erosion, and provides a microenvironment suitable for soil biota at the mulch/soil interface. It also serves as a pretreatment layer, trapping the finer sediments, which remain suspended after the primary pretreatment.

The mulch layer should be standard landscape style, single or double shredded hardwood mulch or chips. The mulch layer should be well aged (stockpiled or stored for at least 12 months), uniform in color, and free of other materials, such as weed seeds, soil, roots, etc. The mulch should be applied to a maximum depth of three inches. Grass clippings should not be used as a mulch material.

### Planting Guidance

Plant material selection should be based on the goal of simulating a terrestrial forested community of native species. Bioretention simulates an upland-species ecosystem. The community should be dominated by trees, but have a distinct community of understory trees, shrubs and herbaceous materials. By creating a diverse, dense plant cover, a bioretention facility will be able to treat stormwater runoff and withstand urban stresses from insects, disease, drought, temperature, wind, and exposure. The proper selection and installation of plant materials is key to a successful system. There are essentially three zones within a bioretention facility (Figure A.5). The lowest elevation supports plant species adapted to standing and fluctuating water levels. The middle elevation supports plants that like drier soil conditions, but can still tolerate occasional inundation by water. The outer edge is the highest elevation and generally supports plants adapted to drier conditions. For appropriate plant materials for bioretention facilities, refer to MAAP Approved Species List. The layout of plant material should be flexible, but should follow the general principles described in Table A.5. The objective is to have a system, which resembles a random, and natural plant layout, while maintaining optimal conditions for plant establishment and growth. For a more extensive bioretention plan, consult ET&B, 1993 or Clayton and Schaefer, 1997.

## B.4.C Specifications for Micro-Bioretention. Rain Gardens, Landscape Infiltration & Infiltration Berms

### 1. Material Specifications

The allowable materials to be used in these practices are detailed in Table B.4.1.

#### 2. Filtering Media or Planting Soil

The soil shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the micro-bioretention practice that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The planting soil shall be free of Bermuda grass, Quikgrass, Johnson grass, or other noxious weeds as specified under COMAR 15.08.01.05.

The planting soil shall be tested and shall meet the following criteria:

- Soil Component - Loamy Sand or Sandy Loam (USDA Soil Textural Classification)
- Organic Content - Minimum 10% by dry weight (ASTM D 2974). In general, this can be met with a mixture of loamy sand (80%-95%) and compost (35% to 40%) or sandy loam (50%, coarse sand (30%), and compost (14%).
- Clay Content - Media shall have a clay content of less than 5%.
- pH Range - Should be between 5.5 - 7.0. Amendments (e.g., lime, iron sulfate plus sulfur) may be mixed into the soil to increase or decrease pH.

There shall be at least one soil test per project. Each test shall consist of both the standard soil test for pH, and additional tests of organic matter, and soluble salts. A test analysis report, as required from the site, should be provided. If the test analysis report is not available, a soil test shall be performed for each location where the topsoil was excavated.

#### 3. Compaction

It is very important to minimize compaction of both the base of the bioretention practices and the required backfill. When possible, use excavation hoses to remove original soil. If practices are excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires. Use of equipment with narrow tracks or narrow tires, rubber tires with large lugs, or high-pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable. Compaction will significantly contribute to design failure.

Compaction can be alleviated at the base of the bioretention facility by using a primary filling operation such as a chisel plow, ripper, or subsoiler. These filling operations are to refracture the soil profile through the 12 inch completion zone. Subsurface methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.

Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer. Pump any ponded water before preparing (rototilling) base. When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand, then rototill the sand/topsoil to create a gradation zone. Backfill the remainder of the topsoil to final grade.

When backfilling the bioretention facility, place soil in lifts 12" to 18". Do not use heavy equipment within the bioretention basin. Heavy equipment can be used around the perimeter of the basin to supply soil and sand. Grade bioretention materials with light equipment such as a compact loader or a dozer/loader with marsh tracks.

#### 4. Plant Material

Recommended plant material for micro-bioretention practices can be found in Appendix A, Section A.2.3.

#### 5. Plant Installation

Compost is a better organic material source, is less likely to float, and should be placed in the inner and outer low areas. Mulch should be placed in surrounding to a uniform thickness of 2" to 3". Shredded or chipped hardwood mulch is the only accepted mulch. Fine mulch and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6 to 12 months) for acceptance.

Stockpiles of the plant material shall be kept moist during transport and on-site storage. The plant root ball should be planted so 1/8th of the ball is above final grade surface. The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball. Set and maintain the plant straight during the entire planting process. Thoroughly water ground bed cover after installation.

Trees shall be braced using 2" x 2" stakes only as necessary and for the first growing season only. Stakes are to be equally spaced on the outside of the tree ball. Grasses and legume seeds should be drilled into the soil to a depth of at least one inch. Grass and legume plugs shall be planted following the non-grass ground cover planting specifications.

The topsoil specifications provide enough organic material to adequately supply nutrients from natural cycling. The primary function of the bioretention structure is to improve water quality. Adding fertilizers defeats, or at a minimum, impedes this goal. Only add fertilizer if wood chips or mulch are used to amend the soil. Rototill use fertilizer at a rate of 2 pounds per 1000 square feet.

#### 6. Underdrains

Underdrains should meet the following criteria:

- Pipe - should be 47 to 67 diameter, slotted or perforated rigid plastic pipe (ASTM F 756, Type PS 28, or AASHTO-H-278) in a gravel layer. The preferred material is slotted, 4" rigid pipe (e.g., PVC or HDPE).
- Perforations - If perforated pipe is used, perforations should be 3/8" diameter located 6" on center with a minimum of four holes per row. Pipe shall be wrapped with a 1/4" (No. 4 or 4x) galvanized hardware cloth.

The main collector pipe shall be at a minimum 0.5% slope.

A rigid, non-perforated observation well must be provided (one per every 1,000 square feet) to provide a clean-out port and monitor performance of the filter.

A 4" layer of pea gravel (1/8" to 3/8" stone) shall be located between the filter media and underdrain to prevent migration of fines into the underdrain. This layer may be considered part of the filter bed when bed thickness exceeds 24".

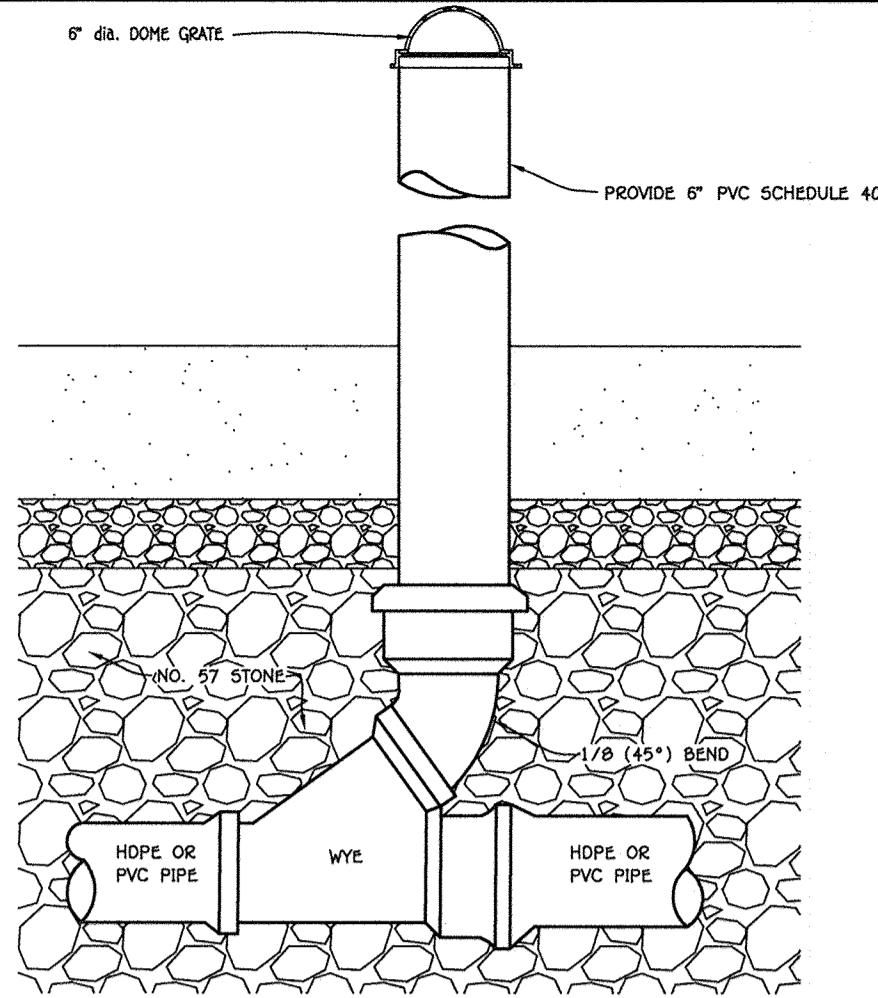
The main collector pipe for underdrain systems shall be constructed at a minimum slope of 0.5%. Observation wells and/or clean-out pipes must be provided (one minimum per every 1000 square feet of surface area).

#### 7. Miscellaneous

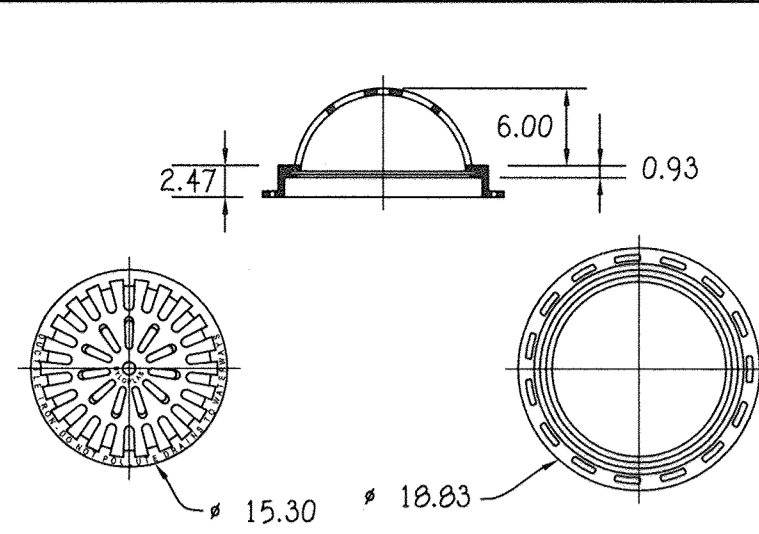
These practices may not be constructed until all contributing drainage area has been established.

### STORMWATER MANAGEMENT MAINTENANCE NOTE

ALL STORMWATER MANAGEMENT FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED BY THE OXFORD SQUARE COMMERCIAL ASSOCIATION, INC. THE STREET TREES, PERFORATED UNDERDRAINS, FEEDERS, PLANTINGS AND SWALES WILL ALSO BE PRIVATELY OWNED AND MAINTAINED BY THE OXFORD SQUARE COMMERCIAL ASSOCIATION. HOWARD COUNTY WILL ONLY MAINTAIN THE INLET STRUCTURE WITHIN THE MICRO BIO-RETENTION FACILITIES ADJACENT TO THE RIGHT-OF-WAY.



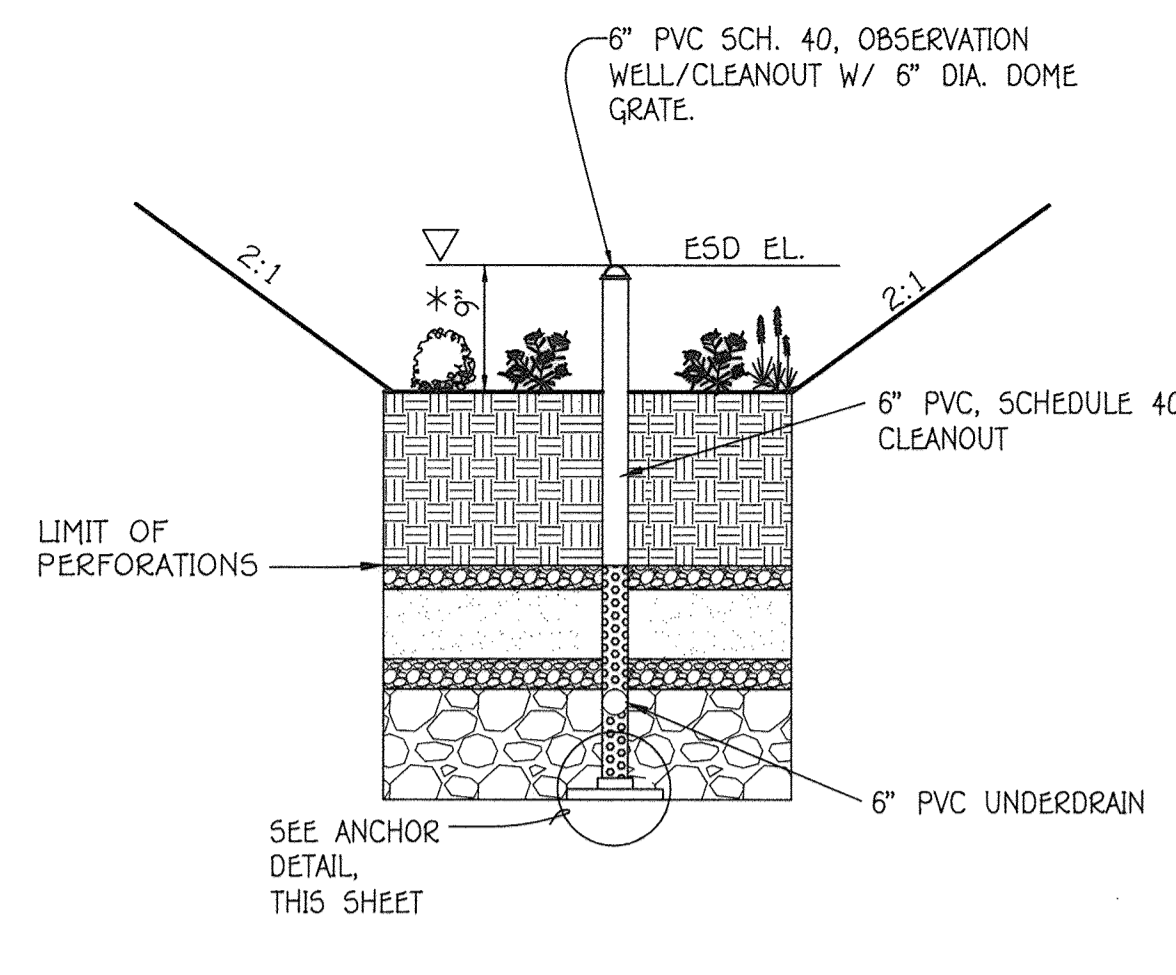
TYPICAL CLEAN-OUT DETAIL  
NO SCALE



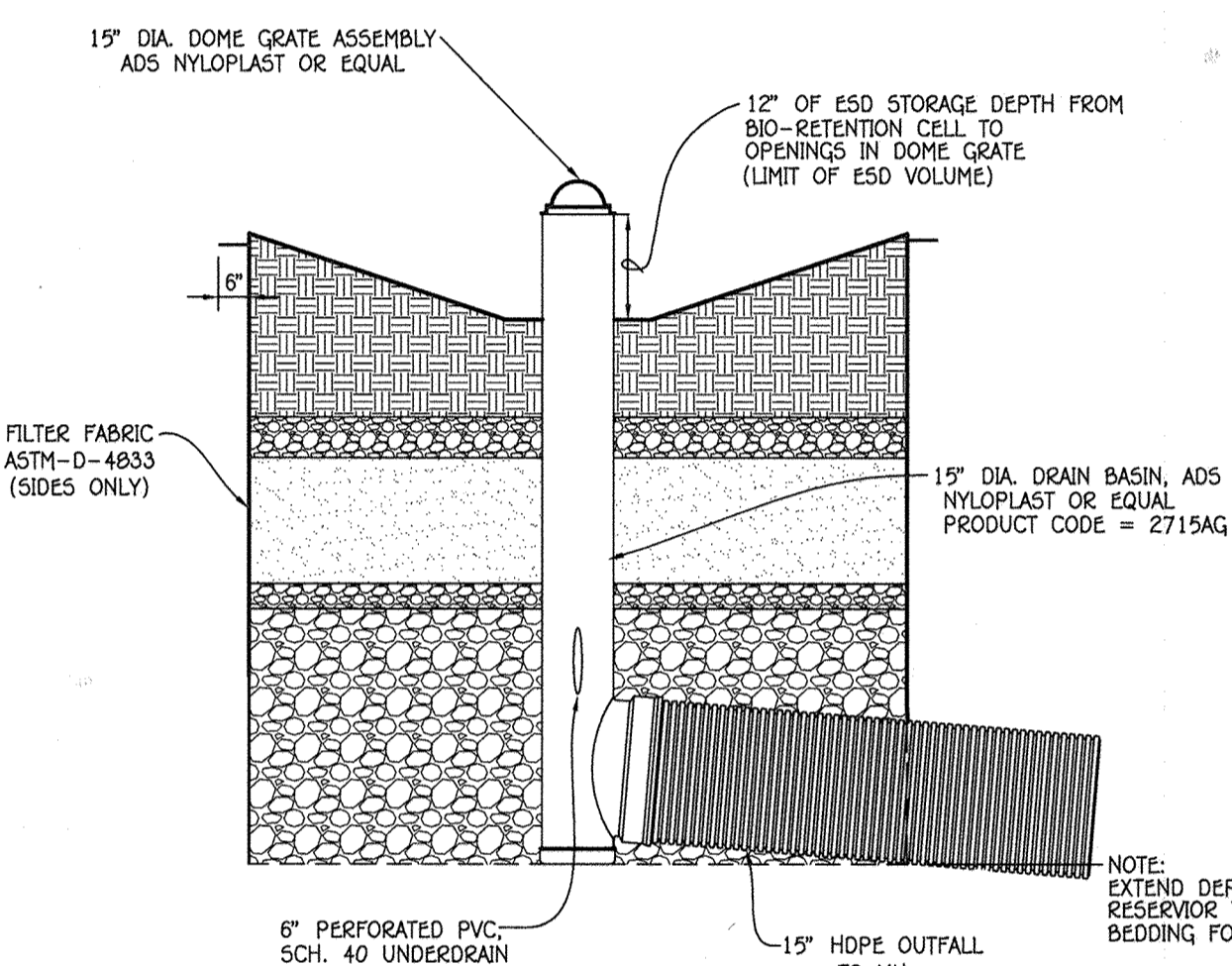
ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE  
QUALITY: MATERIAL SHALL CONFORM TO ASTM A536 GRADE 70-50-05  
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT LOCKING DEVICE AVAILABLE UPON REQUEST  
SEE DRAWING NO. 7001-110-230

**Nyloplast**  
3130 VERONA AVE.  
BUFORD, GA 30518  
PHN (770) 932-2443  
FAX (770) 932-2490  
www.nyloplast-us.com

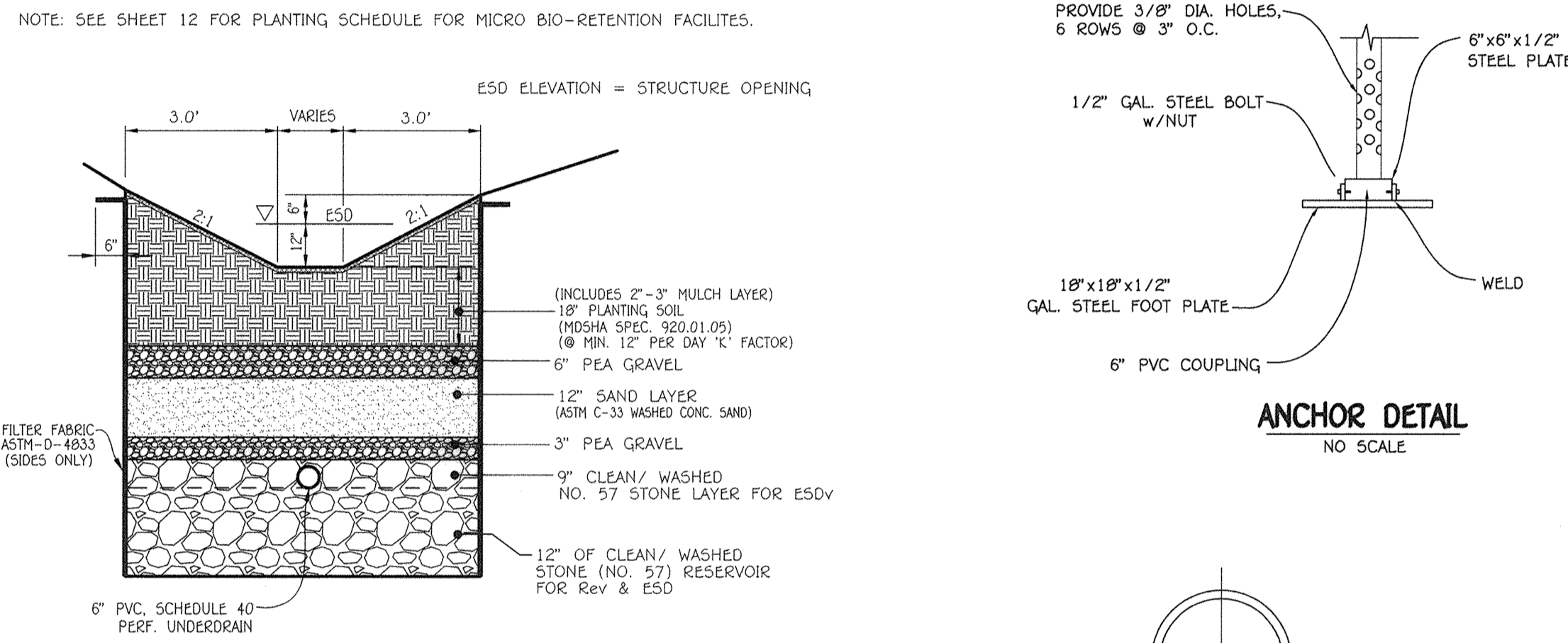
### 15" DOME GRATE ASSEMBLY NYLOPLAST OR EQUAL



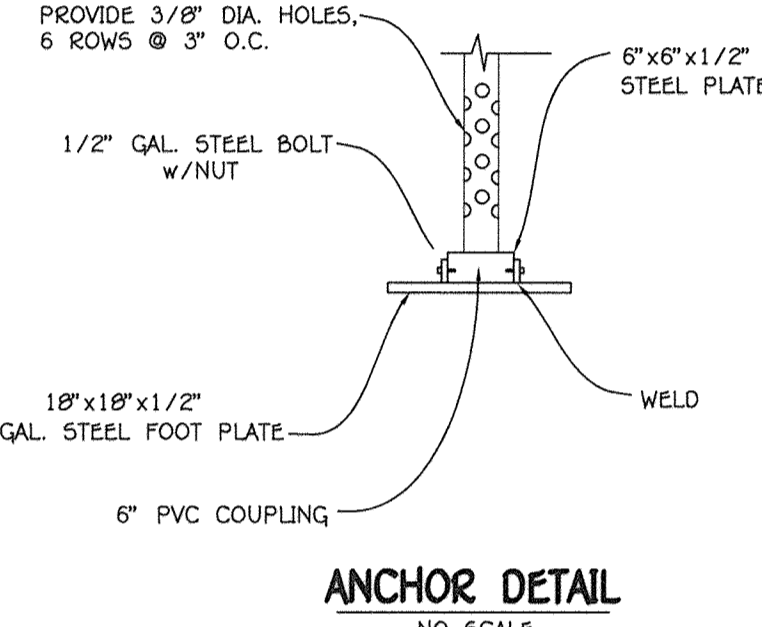
### SECTION @ OBSERVATION WELL LOCATION NOT TO SCALE



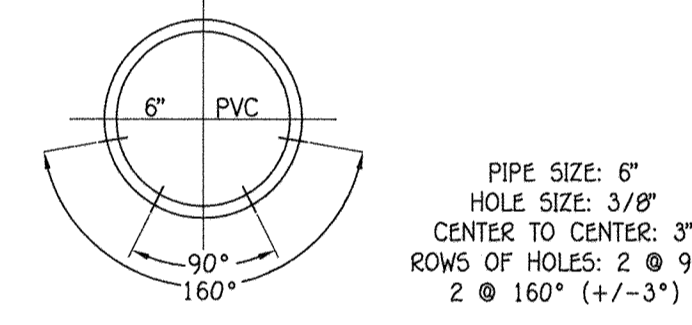
### TYPICAL INLET STRUCTURE DETAIL @ MICRO BIO-RETENTION NO SCALE



### TYPICAL MICRO BIO-RETENTION (M-6) (WITHIN PARCEL) NO SCALE



### ANCHOR DETAIL NO SCALE



### SCH 40 PVC PERFORATED UNDERDRAIN PIPE DETAIL FOR HORIZONTAL DRAIN PIPE NO SCALE

## Operation And Maintenance Schedule For Commercial Association Owned & Maintained Bio-Retention Areas (M-6)

1. The owner shall maintain the plant material, mulch layer and soil layer annually, maintenance of mulch and soil is limited to correcting areas of erosion or wash out. Any mulch replacement shall be done in the spring. Plant material shall be checked for disease and insect infestation and maintenance will address dead material and pruning. Acceptable replacement plant material is limited to the following: 2000 Maryland stormwater design manual volume II, Table A.4.1 and 2.
2. The owner shall perform a plant in the spring and in the fall each year. During the inspection, the owner shall remove dead and diseased vegetation considered beyond treatment, replace dead plant material with acceptable replacement plant material. Treat diseased trees and shrubs and replace all deficient stakes and wires.
3. The owner shall inspect the mulch each spring. The mulch shall be replaced every two to three years. The previous mulch layer shall be removed before the new layer is applied.
4. The owner shall correct soil erosion on an as needed basis, with a minimum of once per month and after each heavy storm.
5. The owner shall maintain all observation wells, clean-outs and perforated underdrains.
6. Filter material must be replaced when water remains on the surface of the filter bed for more than 24 hours following a 1 or 2 year storm event or more than 48 hours following a 10 year storm event.

**FISHER, COLLINS & CARTER, INC.**  
CIVIL, ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
ELIOT CITY, MARYLAND 21042  
(410) 461 - 2855



AS-BUILT CERTIFICATION FOR PSWM  
Note: There is NO "AS-BUILT" information provided for this project.  
*William M. Vintola*  
WILLIAM M. VINTOLA, NO. 20748  
Date: 4/6/16

**Owner/Builder**  
Lennar  
10211 Winconsin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

**Developer**  
Lennar  
10211 Winconsin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development	9-23-15
Chief, Development Engineering Division	7-8-15
Director - Department of Planning and Zoning	9-24-15

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
23450-23451	---	TOD	44	1st.	601101

STORMWATER MANAGEMENT NOTES & DETAILS

# OXFORD SQUARE

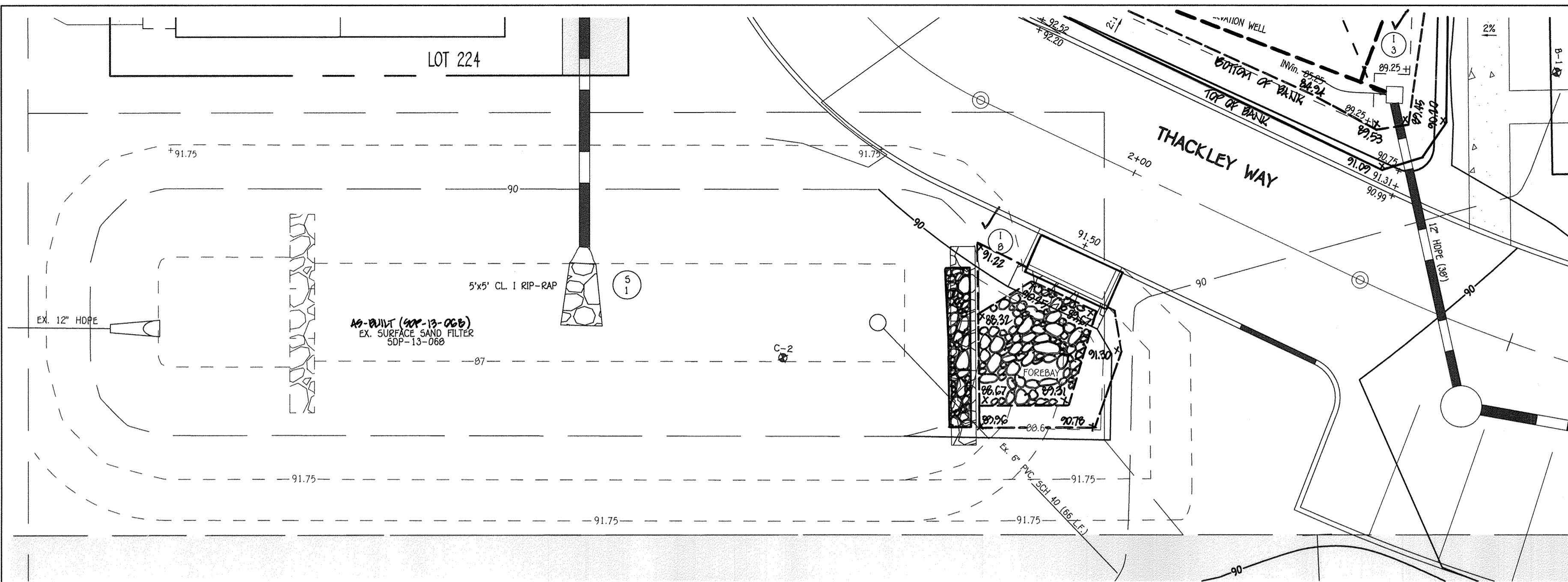
"A Howard County Green Neighborhood"  
Lots 224-241, Open Space Lots 242 & 243 And Parcel 'U'

(Being A Resubdivision of Parcel 'C', As Shown On Plans Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels 'C', 'E', 'F', 'G', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z' And "M" And Recorded Among The Land Records of Howard County, Maryland, As Plat No. 22858, Thru 22862.)

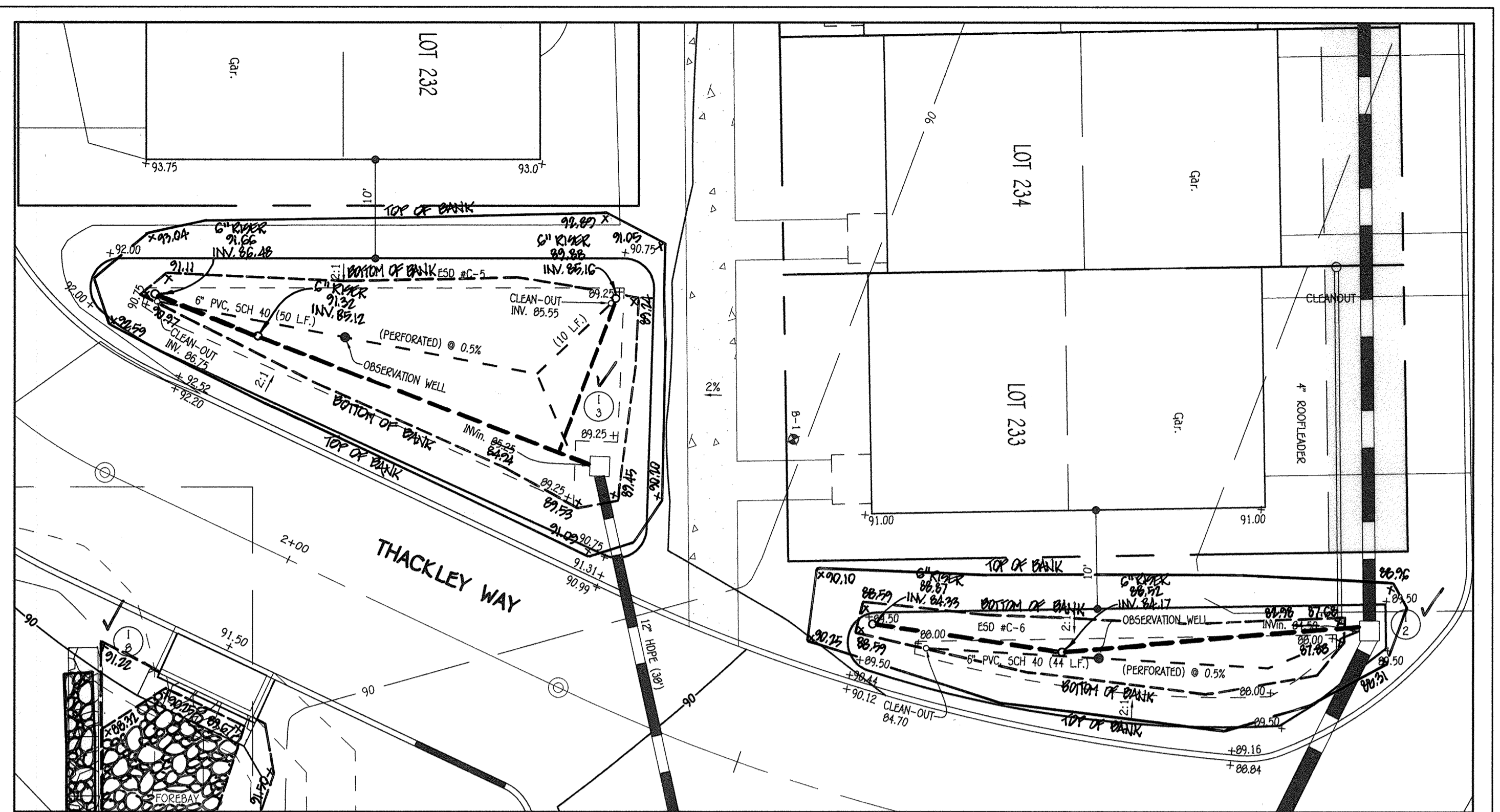
Zone: TOD  
Grid No.: 38  
Goned No.: 20  
Parcel No.: 1003  
First Election District: Howard County, Maryland  
Scale: As Shown  
Date: May 7, 2015  
Sheet 6 Of 20

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

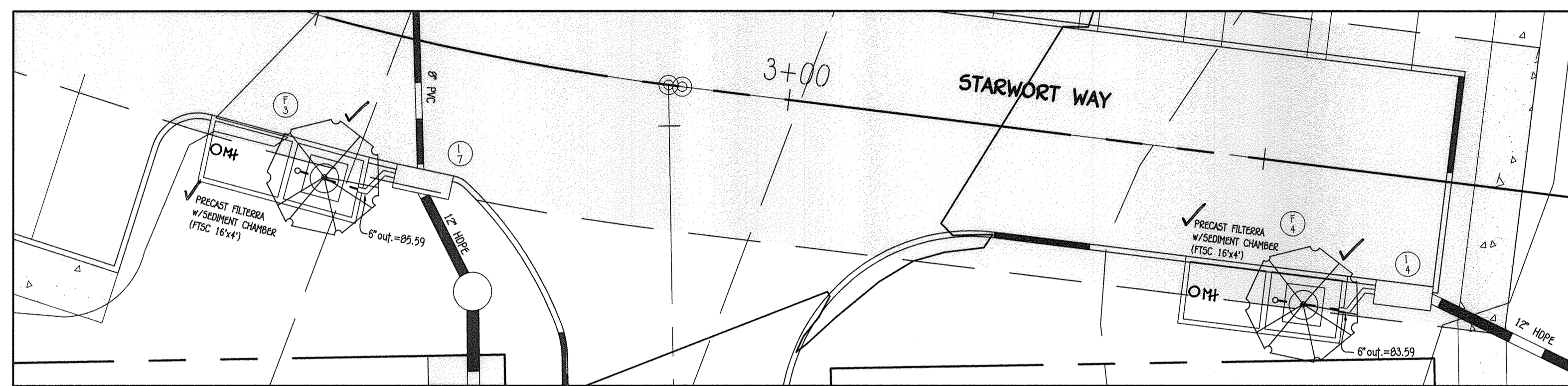
I:\2009\0914\dwg\SDP (Common) Parcel 'C' Dec 17 2014 4:44 pm - wimchan011 Sheet 5 - 6 - wimchan011.dwg, C:\66\_SDP-14-071 sheet 5 - 6 - wimchan011.dwg, 17/2014 4:44 pm - wimchan011 Sheet 5 - 6 - wimchan011.dwg



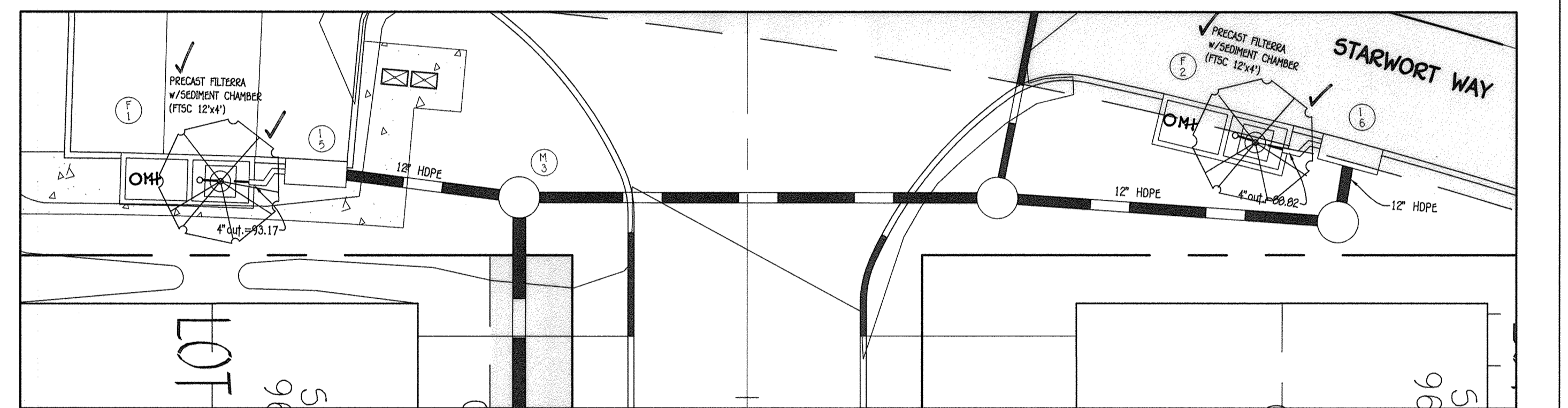
EXISTING SAND FILTER (F-1)  
(SDP-13-068) FOREBAY PLAN VIEW  
SCALE: 1" = 10'



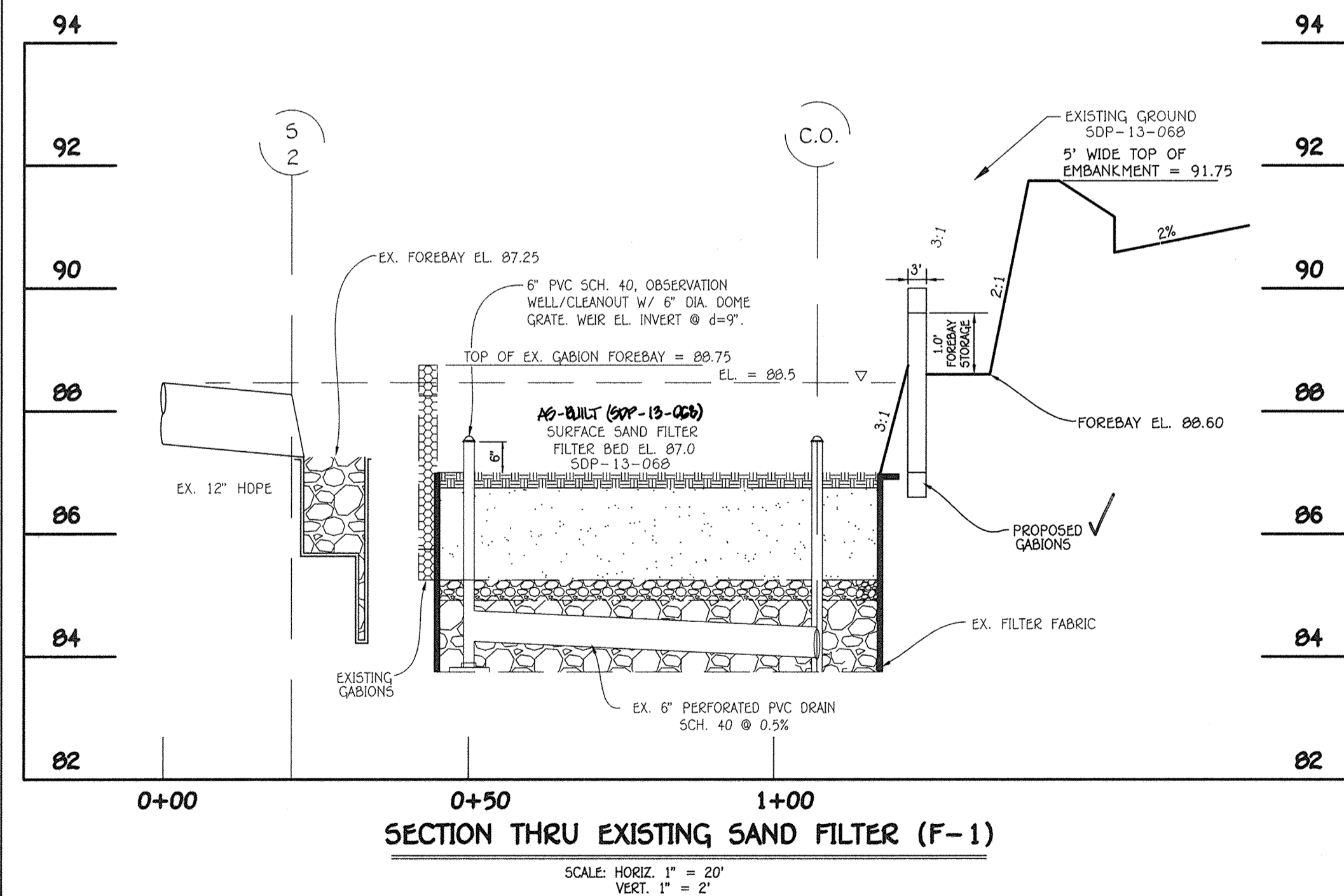
PROPOSED MICRO BIO-RETENTION (M-6)  
FACILITY #C-5 & #C-6 PLAN VIEW  
SCALE: 1" = 10'



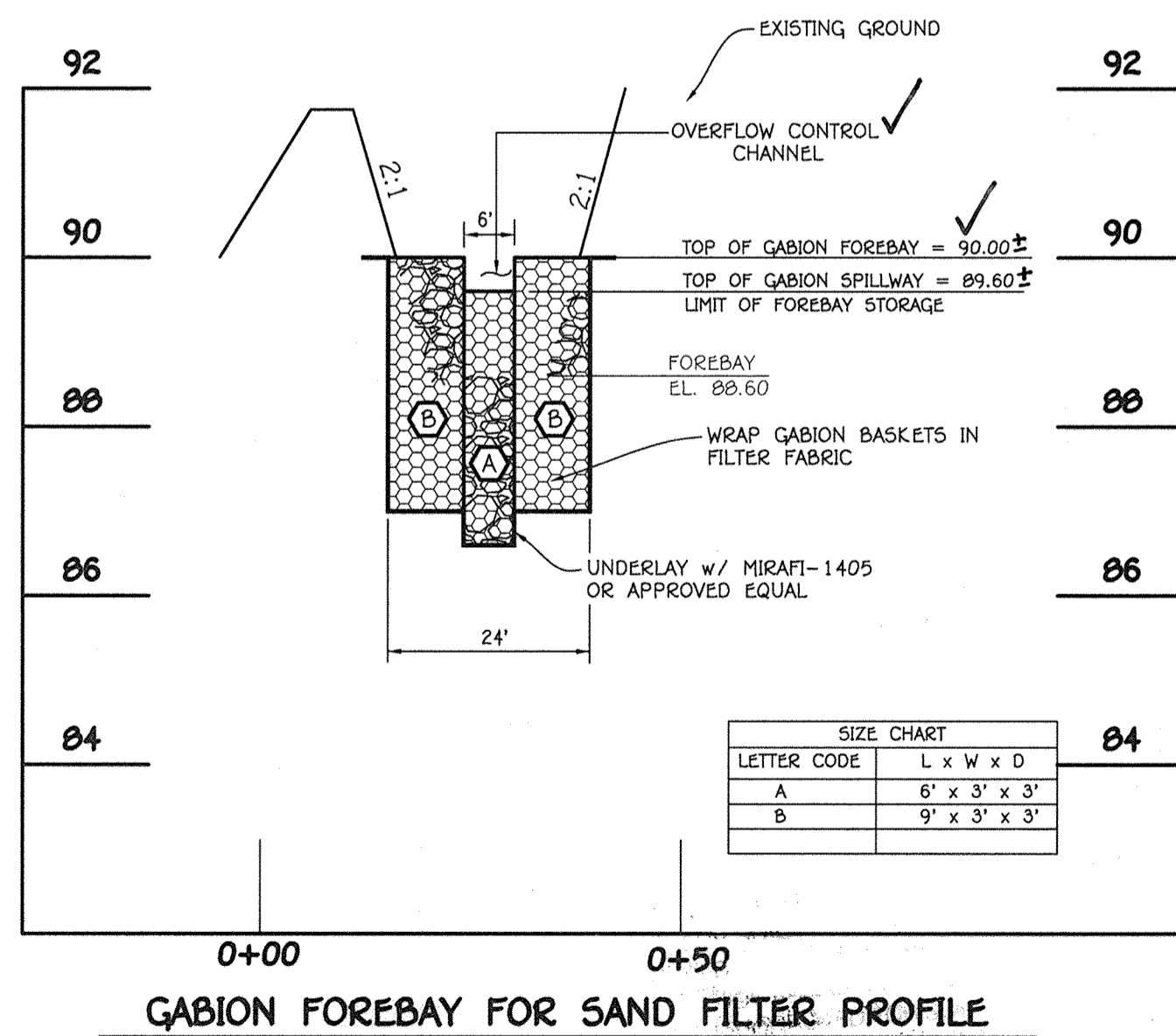
FILTRERA BIO-RETENTION SYSTEM PLAN VIEW  
SCALE: 1" = 10'



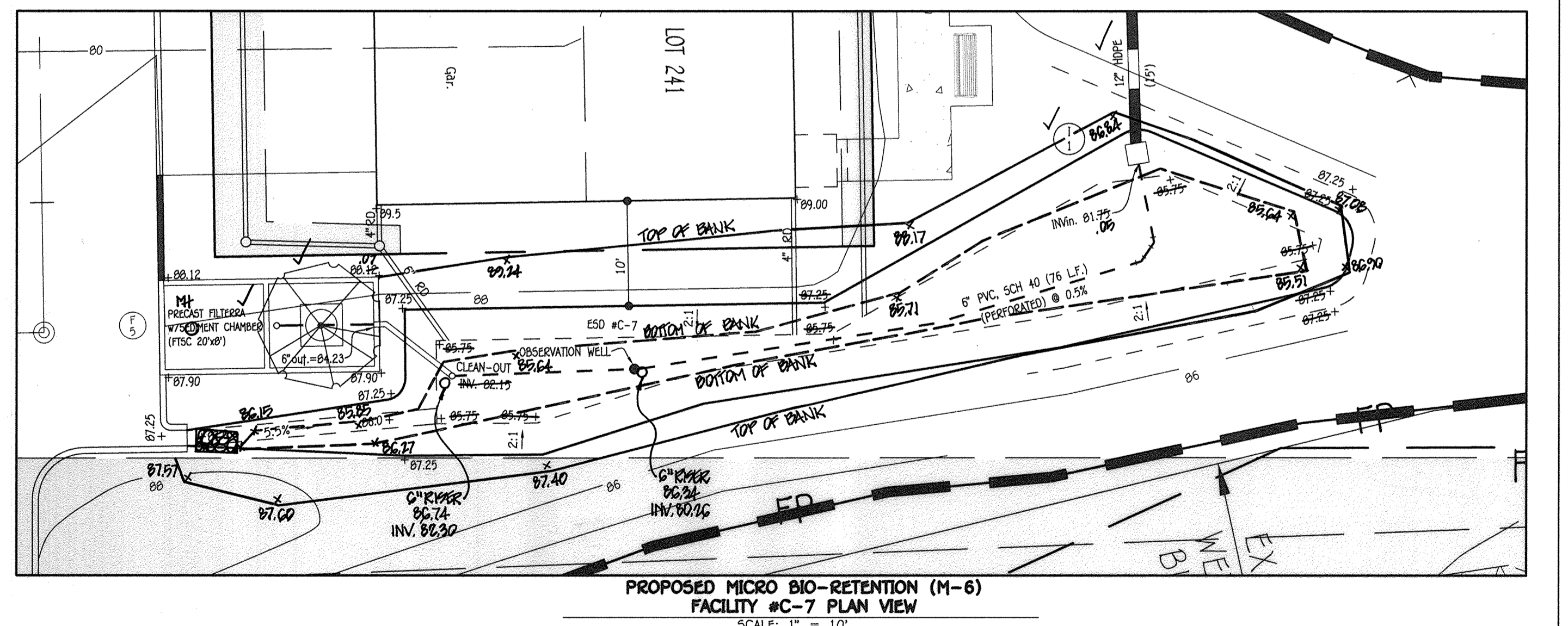
FILTRERA BIO-RETENTION SYSTEM PLAN VIEW  
SCALE: 1" = 10'



SECTION THRU EXISTING SAND FILTER (F-1)  
SCALE: HORIZ. 1" = 20'  
VERT. 1" = 2'



GABION FOREBAY FOR SAND FILTER PROFILE  
SCALE: HORIZ. 1" = 20'  
VERT. 1" = 2'



PROPOSED MICRO BIO-RETENTION (M-6)  
FACILITY #C-7 PLAN VIEW  
SCALE: 1" = 10'

NO.	REVISION	DATE

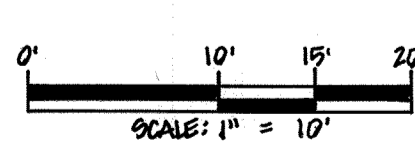


AS-BUILT CERTIFICATION FOR PSWIM  
I hereby certify that the facility shown on the plan was constructed as shown on the "AS BUILT" plans and specifications. I have verified that the contributing drainage area is sufficiently stabilized to prevent clogging of the underground SWM Facility.

*Aldo M. Villalobos*  
ALDO M. VILLALOBOS, No. 907146  
Date: 4/9/19

Owner/Builder: Lennar, 10211 Minocquin Circle, Suite 180, Columbia, Maryland 21044, Ph: 410-423-0460

Developer: Lennar, 10211 Minocquin Circle, Suite 180, Columbia, Maryland 21044, Ph: 410-423-0460



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*K. J. Henderson*  
Chief, Division of Land Development  
Date: 9-23-15

*[Signature]*  
Chief, Development Engineering Division  
Date: 7-8-15

*[Signature]*  
Director - Department of Planning and Zoning  
Date: 9-24-15

SUBDIVISION	PARCEL NO.	LOT NOS.			
OXFORD SQUARE	C	LOTS 224-241 & CONDO. BLDGS. 1-3			
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
23450-23451	---	TOD	44	1st.	601101

STORMWATER MANAGEMENT PLANS

# OXFORD SQUARE

"A Howard County Green Neighborhood"

Lots 224-241, Open Space Lots 242 & 243 And Parcel 'U'

(Being A Resubdivision Of Parcel 'C', As Shown On Plans Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels 'C', 'E', 'F', 'G', 'H', 'I', 'J', 'K' And 'M' And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22859, Thru 22893.)

Zoned: TOD

Tax Map No.: 3B Grid No.: 20 Parcel No.: 1003  
First Election District: Howard County, Maryland

Scale: As Shown  
Date: May 7, 2015  
Sheet 7 of 20

**SEDIMENT CONTROL LEGEND**

- SSF—SSF—SSF— SUPER-SILT FENCE
- SF—SF—SF— SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- C.I.P. CURB INLET PROTECTION
- S.I.P. STANDARD INLET PROTECTION
- L.O.D. LIMIT OF DISTURBANCE

**CONTRACTOR NOTES:**

1. CONTRACTOR SHALL PUMP THE EXISTING BASIN No. 1 COMPLETELY DRY THROUGH A FILTERING DEVICE TO A CLEAN WATER OUTFALL BEFORE BACKFILLING.
2. CONTRACTOR SHALL REMOVE ANY AND ALL JUNK, DEBRIS AND TRASH FROM WITHIN THE FLOODPLAIN, STREAMS, WETLANDS & THEIR BUFFERS.

NOTE: CONTRACTOR TO REPAIR ANY SEDIMENT CONTROL DEVICES INTERRUPTED BY THE INSTALLATION OF STORM DRAINS ARE TO BE REPAIRED IMMEDIATELY.

NOTE: THOSE BUILDINGS AFFECTED BY THE INSTALLATION OF THE SHOWN SEDIMENT CONTROLS MAY NOT BEGIN UNTIL PERMISSION IS RECEIVED FROM THE SEDIMENT CONTROL INSPECTOR.

**AS-BUILT CERTIFICATION FOR PSWM**

Note: There is no "AS BUILT" information provided for this project.

*Alfred M. Vitucci* No. 00748  
Date: 4/10/17



NOTE: SEE NOTE NO. 33 ON SHEET 1 PERTAINING TO THE LIMIT OF DISTURBANCE WITHIN THE FLOODPLAIN LIMITS.

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK — 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2000



THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Approved: *John M. Vitucci*  
Howard County Department of Planning and Zoning

**Owner/Builder**  
Lennar  
10211 Wincopin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

**Developer**  
Lennar  
10211 Wincopin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

<i>John M. Vitucci</i> Chief, Division of Land Development	9-23-15 Date
<i>John M. Vitucci</i> Chief, Development Engineering Division	7-8-15 Date
<i>John M. Vitucci</i> Director - Department of Planning and Zoning	9-24-15 Date

SUBDIVISION	PARCEL No.	LOT No.
OXFORD SQUARE	'C'	LOTS 224-241 & CONDO. BLDGS. 1-3
PLAT NO.	BLOCK NO.	ZONE
23450-23451	---	TOD
TAX/ZONE	ELEC. DIST.	CENSUS TR.
44	1st.	601101

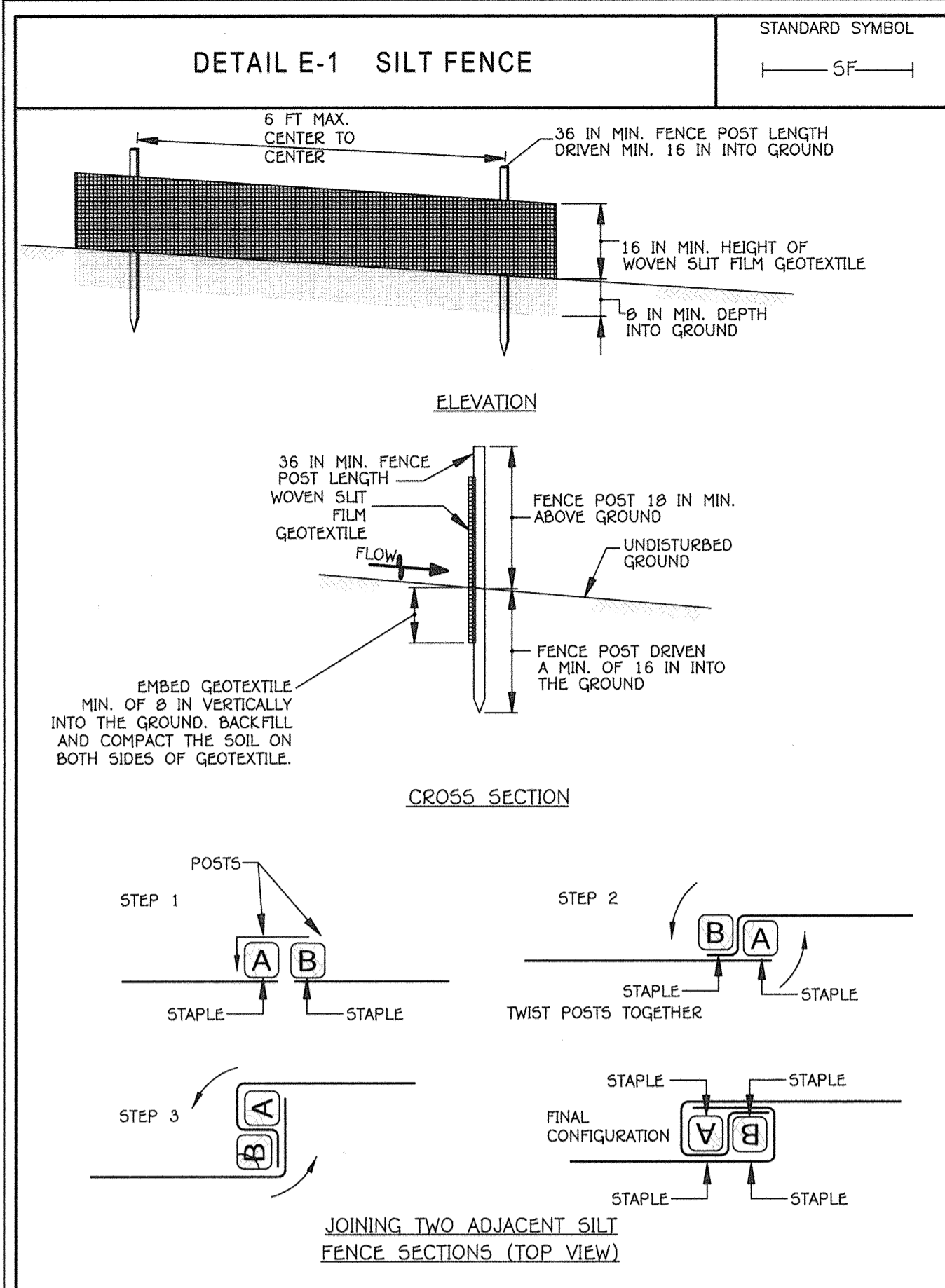
**SEDIMENT & EROSION CONTROL PLAN**

**OXFORD SQUARE**  
"A Howard County Green Neighborhood"  
Lots 224-241, Open Space Lots 242 & 243  
And Parcel 'U'  
(Being A Resubdivision Of Parcel 'C', As Shown On Plate Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels 'C', 'E', 'F', 'G', 'H', 'J', 'K' And 'M' And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22856, Thru 22859.)  
Zoned: TOD  
Tax Map No.: 3B Grid No.: 20 Parcel No.: 1003  
First Election District: Howard County, Maryland  
Scale: As Shown  
Date: May 7, 2015  
Sheet 8 Of 20

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET





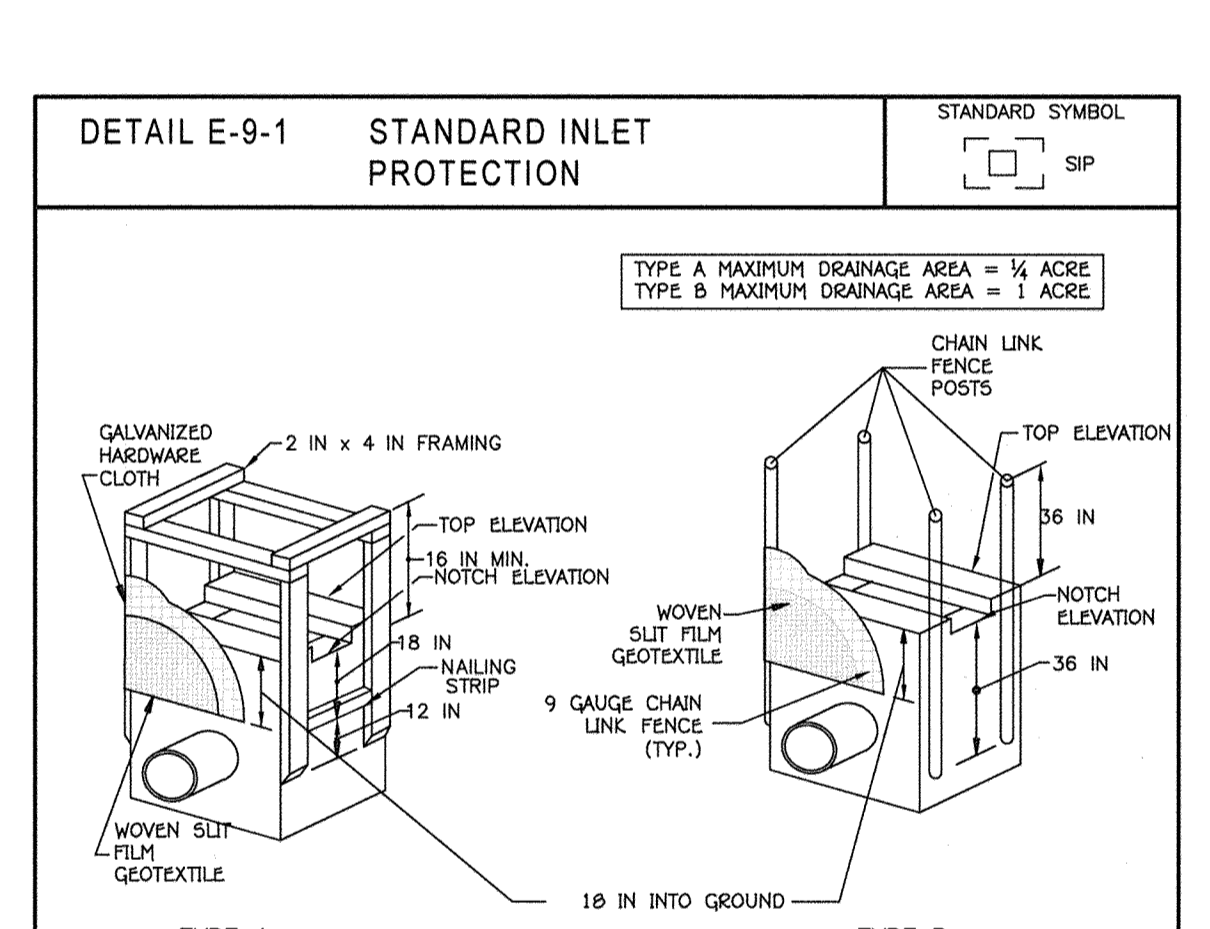


**CONSTRUCTION SPECIFICATIONS**

1. USE WOOD POSTS 1 1/4 X 1 1/4 X 1/8 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 3/8 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

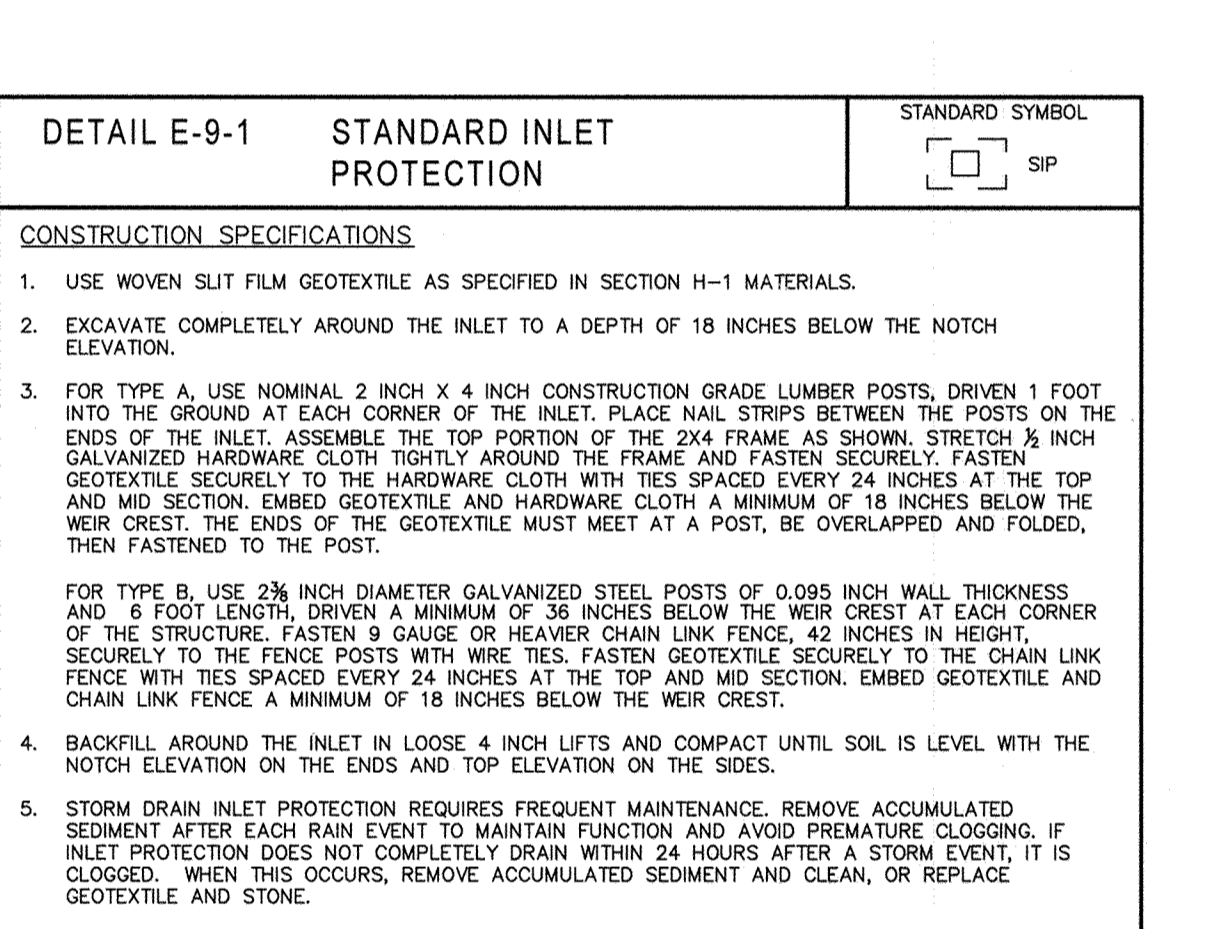
**AS-BUILT CERTIFICATION FOR PSWM**  
 Note: There is no "AS-BUILT" information provided in this plan.  
*Howard M. Vinson*  
 Howard M. Vinson  
 Date: 4/6/19



**CONSTRUCTION SPECIFICATIONS**

1. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
3. FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, DRIVEN 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2x4 FRAME AS SHOWN, STRETCH 1/2 INCH GALVANIZED HARDWARE CLOTH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. FASTEN GEOTEXTILE TO THE HARDWARE CLOTH WITH WIRE TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE WEIR CREST. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.
4. BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
5. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

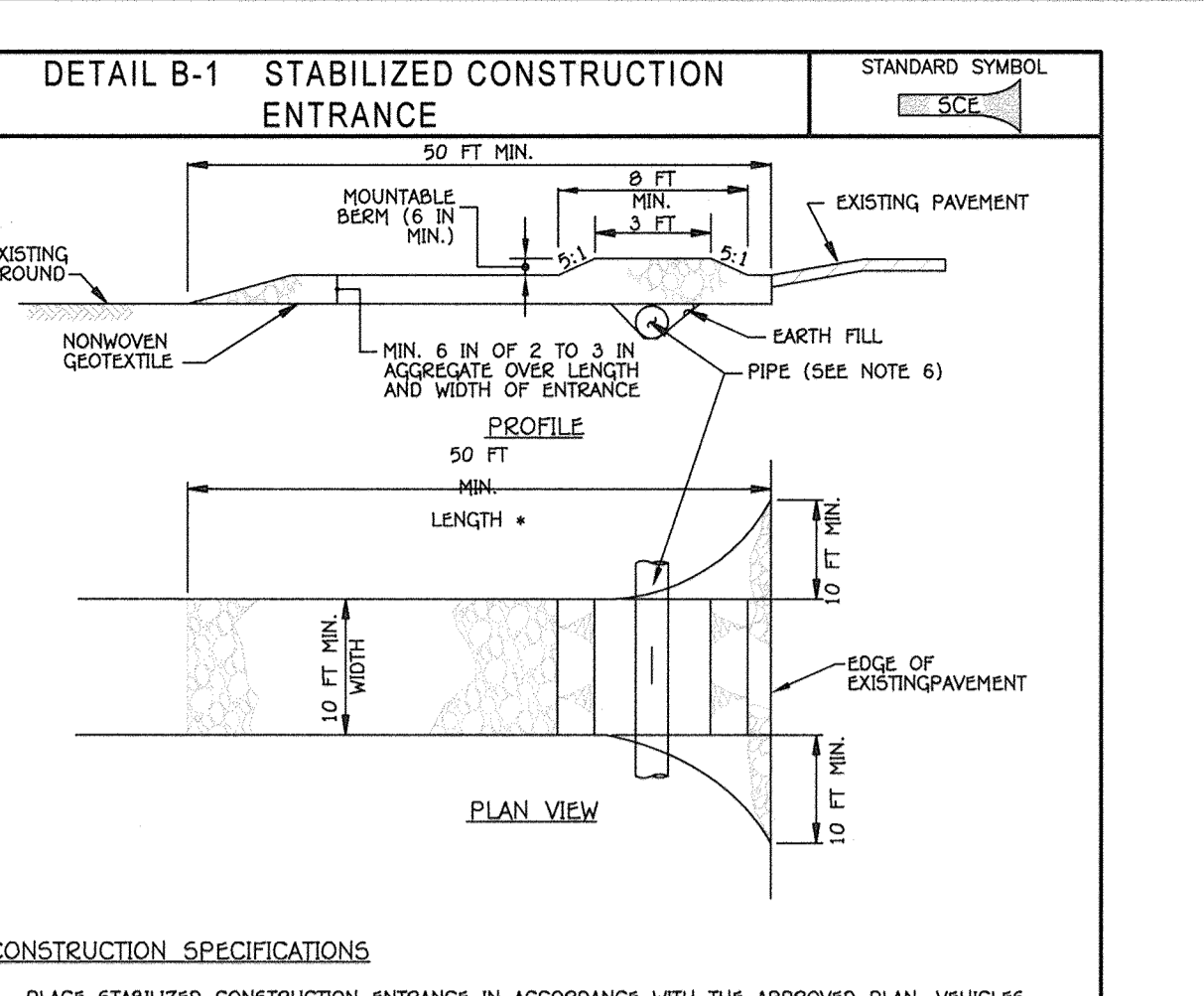
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



**CONSTRUCTION SPECIFICATIONS**

1. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
3. FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, DRIVEN 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2x4 FRAME AS SHOWN, STRETCH 1/2 INCH GALVANIZED HARDWARE CLOTH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. FASTEN GEOTEXTILE TO THE HARDWARE CLOTH WITH WIRE TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE WEIR CREST. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.
4. BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
5. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

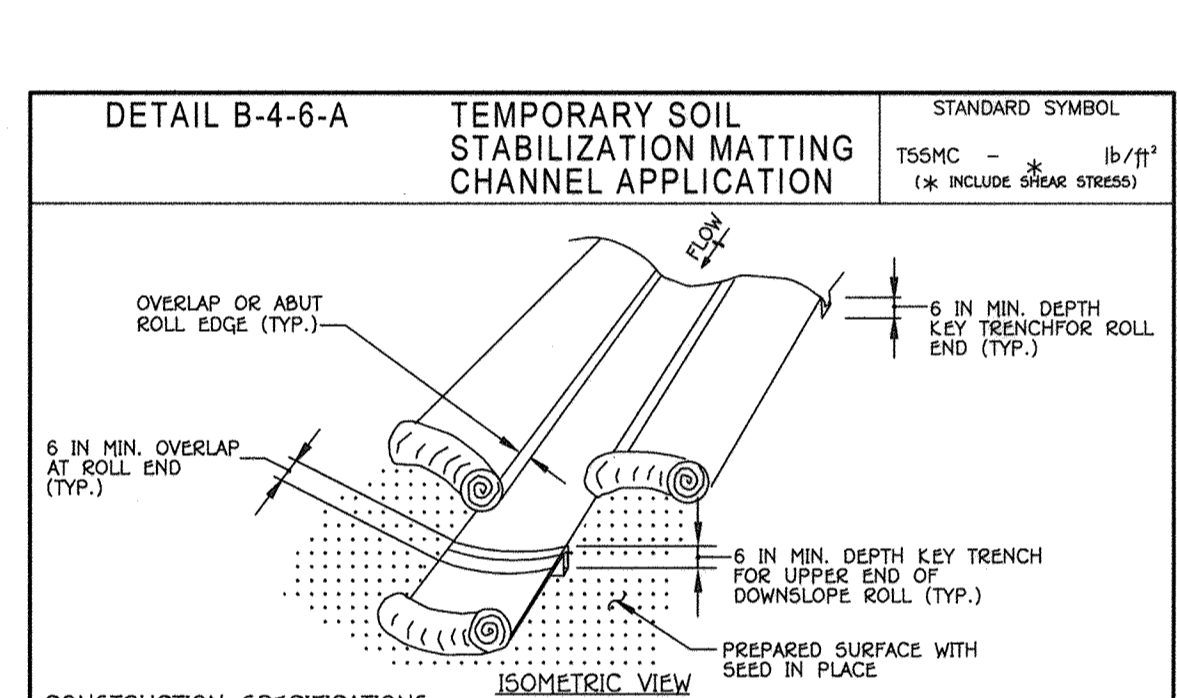
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



**CONSTRUCTION SPECIFICATIONS**

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (4:30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 1/2 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

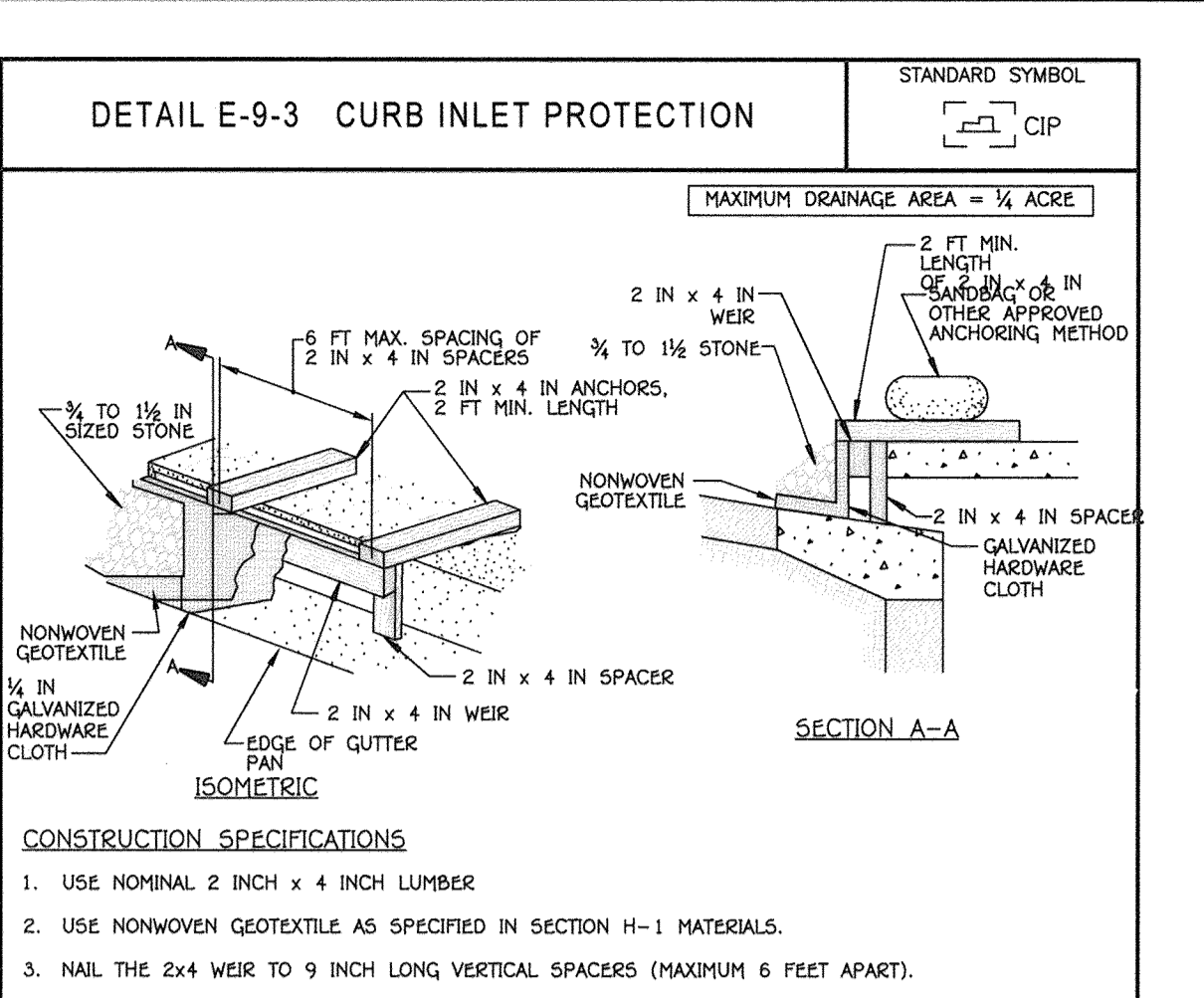
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



**CONSTRUCTION SPECIFICATIONS**

1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
2. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SPLOUGH RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SOIL. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
3. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 6 INCH MAN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1 1/2 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDING PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
5. UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTERLINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MAT SMOOTHLY AND FIRMLY ON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
6. KEY-IN UPSTREAM END OF EACH MAT ROLL BY DIGGING A 6 INCH (MINIMUM) TRENCH AT THE UPSTREAM END OF THE MATTING, PLACING THE ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END.
7. OVERLAP OR ABUT THE ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

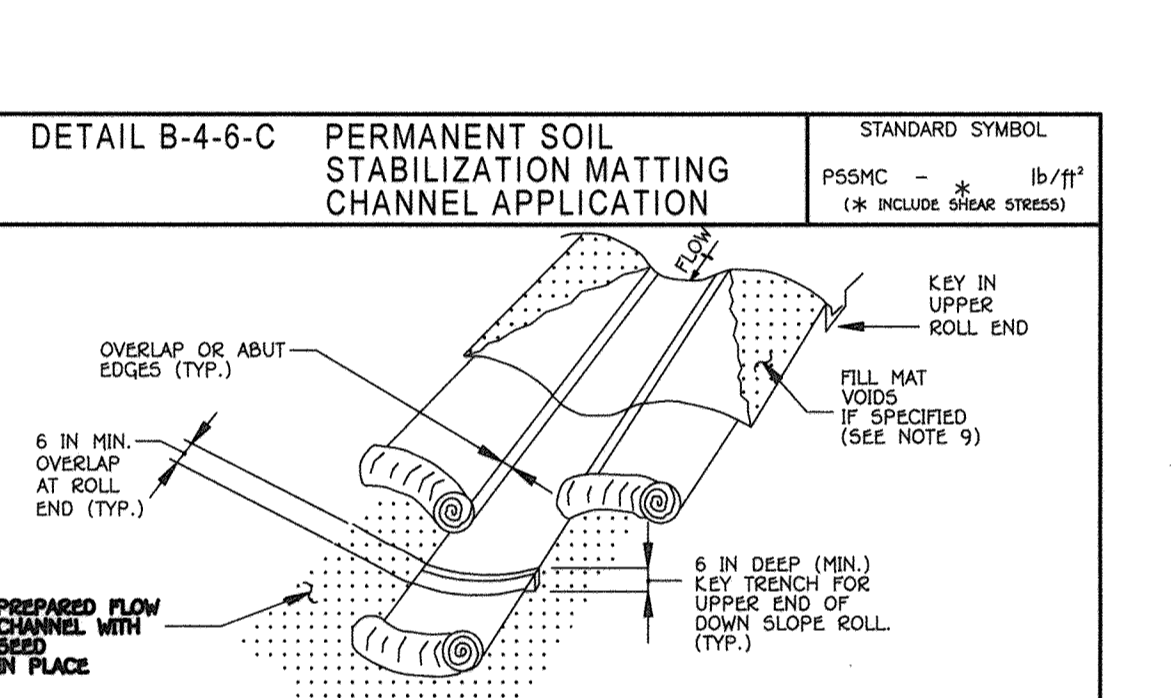
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



**CONSTRUCTION SPECIFICATIONS**

1. USE NOMINAL 2 INCH X 4 INCH LUMBER.
2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
3. NAIL THE 2x4 WEIR TO 9 INCH LONG VERTICAL SPACERS (MAXIMUM 6 FEET APART).
4. ATTACH A CONTINUOUS PIECE OF 1/2 INCH GALVANIZED HARDWARE CLOTH WITH A MINIMUM WIDTH OF 30 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING TO THE 2x4 WEIR. EXTENDING IT 2 FEET BEYOND THROAT ON EACH SIDE.
5. PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE OF THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH TO THE 2x4 WEIR.
6. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2x4 ANCHORS (MINIMUM 2 FEET LENGTH). EXTEND THE ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
7. INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
8. FORM THE HARDWARE CLOTH AND GEOTEXTILE TO THE CONCRETE GUTTER AND FACE OF CURB TO SPAN THE INLET OPENING. COVER THE HARDWARE CLOTH AND GEOTEXTILE WITH CLEAN 3/4 TO 1 1/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE.
9. AT NON-SUMP LOCATIONS, INSTALL A TEMPORARY SANDBAG OR ASPHALT BEEM TO PREVENT INLET BYPASS.
10. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

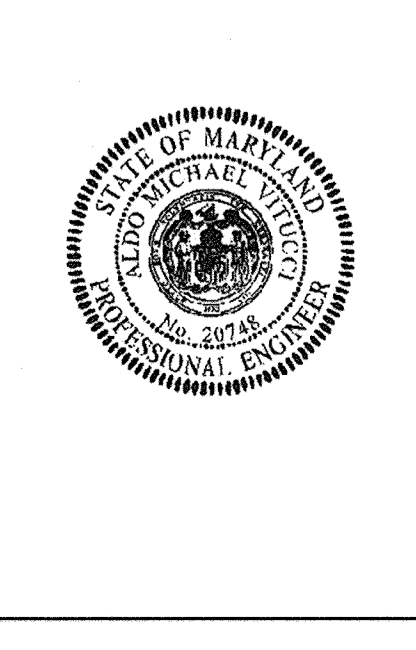


**CONSTRUCTION SPECIFICATIONS**

1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
2. USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SOIL. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
3. SECURE MATTING USING STEEL STAPLES OR WOOD STAKES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 6 INCH MAN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1 1/2 INCH IN CROSS SECTION, AND WEDGE SHAPE AT THE BOTTOM.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDING PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
5. UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTERLINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MATTING SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
6. OVERLAP OR ABUT EDGES OF MATTING ROLLS PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.
7. KEY-IN THE TOP OF SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, MATERIAL AND LIGHTLY COMPACT OR ROLL TO MAXIMIZE SOIL/MAT CONTACT WITHOUT CRUSHING MAT.
10. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

NO.	REVISION	DATE



**ENGINEER'S CERTIFICATE**  
 "I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."  
*Howard M. Vinson*  
 Signature of Engineer (print name below signature)  
 Date: 6/16/15

**DEVELOPER'S CERTIFICATE**  
 "I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."  
*Howard M. Vinson*  
 Signature of Developer (print name below signature)  
 Date: 6/19/15

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.  
*Howard M. Vinson*  
 Howard SCD  
 Date: 6/23/15

**Owner/Builder**  
 Lenora  
 10211 Minopain Circle, Suite 180  
 Columbia, Maryland 21044  
 Phe 410-423-0460

**Developer**  
 Lenora  
 10211 Minopain Circle, Suite 180  
 Columbia, Maryland 21044  
 Phe 410-423-0460

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Ket Schneider*  
 Chief, Division of Land Development  
 Date: 9-23-15

*William J. J.*  
 Chief, Development Engineering Division  
 Date: 7-8-15

*William J. J.*  
 Director - Department of Planning and Zoning  
 Date: 9-24-15

**SUBDIVISION**  
 OXFORD SQUARE

**PARCEL NO.**  
 'C'

**LOT NOS.**  
 LOTS 224-241 & CONDO. BLDGS. 1-3

**TAX/ZONE**  
 TOD 44

**ELEC. DIST.**  
 44

**CENSUS TR.**  
 601101

**PLAT NO.**  
 23450-23451

**ZONE**  
 TOD 44

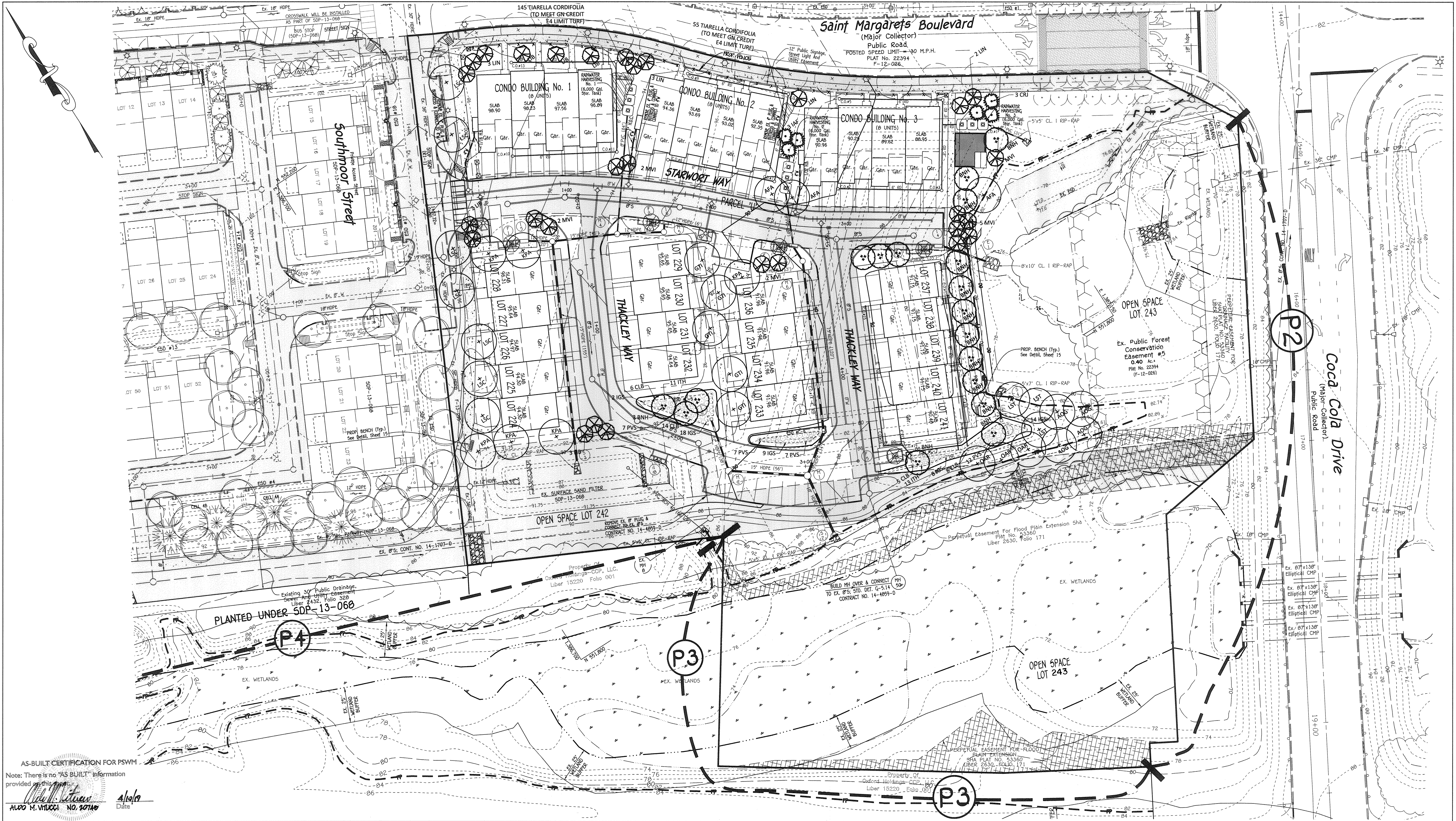
**ELEC. DIST.**  
 44

**CENSUS TR.**  
 601101

**SEDIMENT AND EROSION CONTROL NOTES & DETAILS**  
**OXFORD SQUARE**  
 "A Howard County Green Neighborhood"  
 Lots 224-241, Open Space Lots 242 & 243 And Parcel 'U'  
 (Being A Resubdivision Of Parcel "C". As Shown On Plans Entitled "Revision Plat Oxford Square, "Green Neighborhood", Parcel "C", "E", "F", "G", "H", "I", "J", "K", "L", "M", "N", "O", "P", "Q", "R", "S", "T", "U", "V", "W", "X", "Y", "Z" And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22855, Thru 22859.)

Zone: TOD  
 Tax Map No.: 38 Grid No.: 20 Parcel No.: 1003  
 First Election District: Howard County, Maryland  
 Scale: As Shown  
 Date: May 7, 2015  
 Sheet 10 Of 20

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2955



AS-BUILT CERTIFICATION FOR PSWM

Note: There is no "AS BUILT" information provided by this project.

*Alvaro M. Vlucci*  
 ALVARO M. VLUCCI NO. 107188  
 Date: 4/16/15

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461-2855



**LANDSCAPE DEVELOPER'S CERTIFICATE**

I/we certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Howard County Landscape Manual. I/we further certify that upon completion a letter of landscape installation accompanied by an executed one year guarantee of plant materials will be submitted to the Department of Planning and Zoning.

*Joseph J. ...*  
 U.S. Home Corp.  
 Name: Joseph J. ... Date: 6/9/2015

**Owner/Builder**  
 Lennar  
 10211 Wincoin Circle, Suite 180  
 Columbia, Maryland 21044  
 Ph: 410-423-0460

**Developer**  
 Lennar  
 10211 Wincoin Circle, Suite 180  
 Columbia, Maryland 21044  
 Ph: 410-423-0460

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Kestel ...* 9-23-15  
 Chief, Division of Land Development

*...* 7-8-15  
 Chief, Development Engineering Division

*...* 9-24-15  
 Director - Department of Planning and Zoning

SUBDIVISION	OXFORD SQUARE	PARCEL NO.	"C"	LOT NOS.	LOTS 224-241 & CONDO. BLDGS. 1-3
PLAT NO.	23450-23451	BLOCK NO.	---	ZONE	TOD
TAX/ZONE	44	ELEC. DIST.	1st	CENSUS TR.	601101

**LANDSCAPE PLAN**

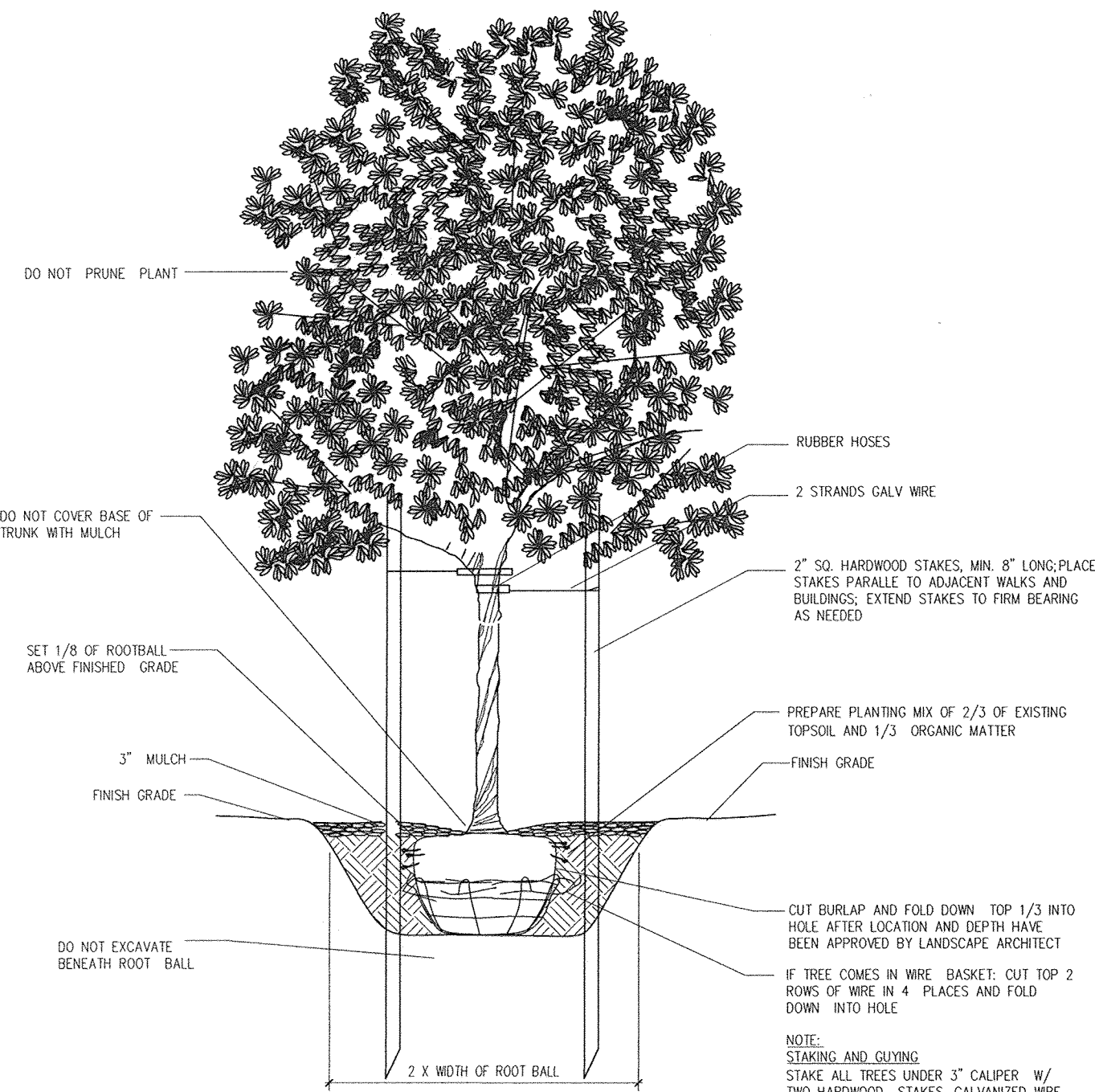
**OXFORD SQUARE**  
 "A Howard County Green Neighborhood"

Lots 224-241, Open Space Lots 242 & 243 And Parcel "U"

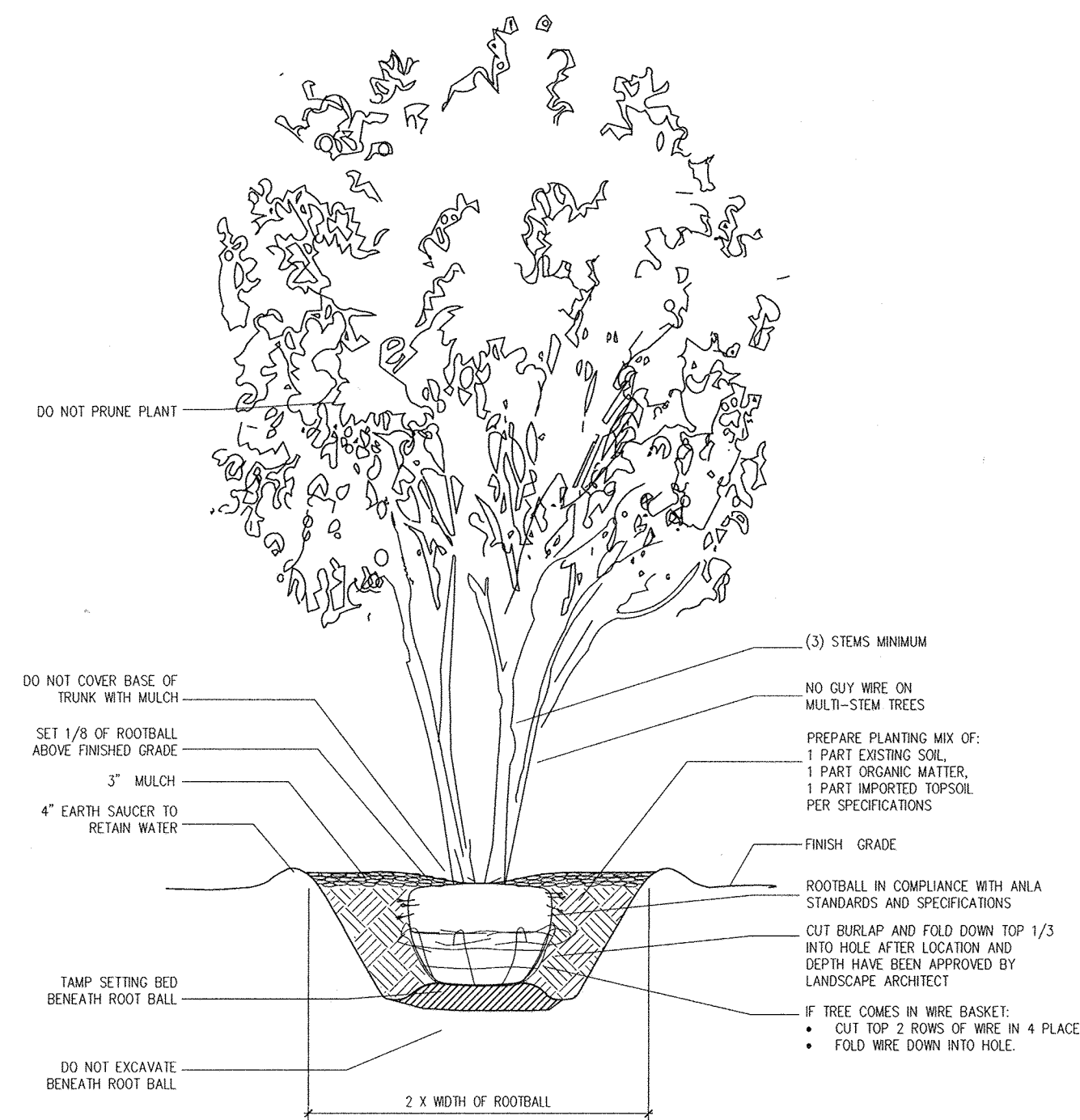
(Being A Resubdivision Of Parcel "C", As Shown On Plans Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels "C", "E", "F", "G", "H", "J", "K" And "M" And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22858, Thru 22858.)

Zoned: TOD  
 Tax Map No.: 3B Grid No.: 20 Parcel No.: 1003  
 First Election District: Howard County, Maryland  
 Scale: As Shown  
 Date: May 7, 2015  
 Sheet 11 of 20

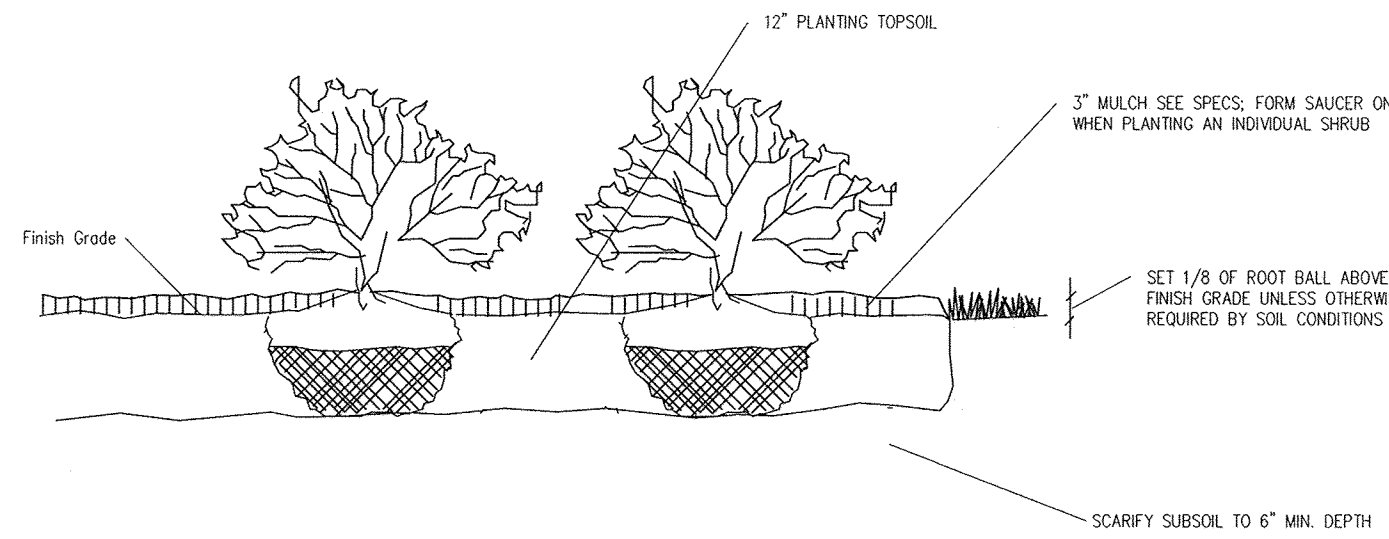
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET



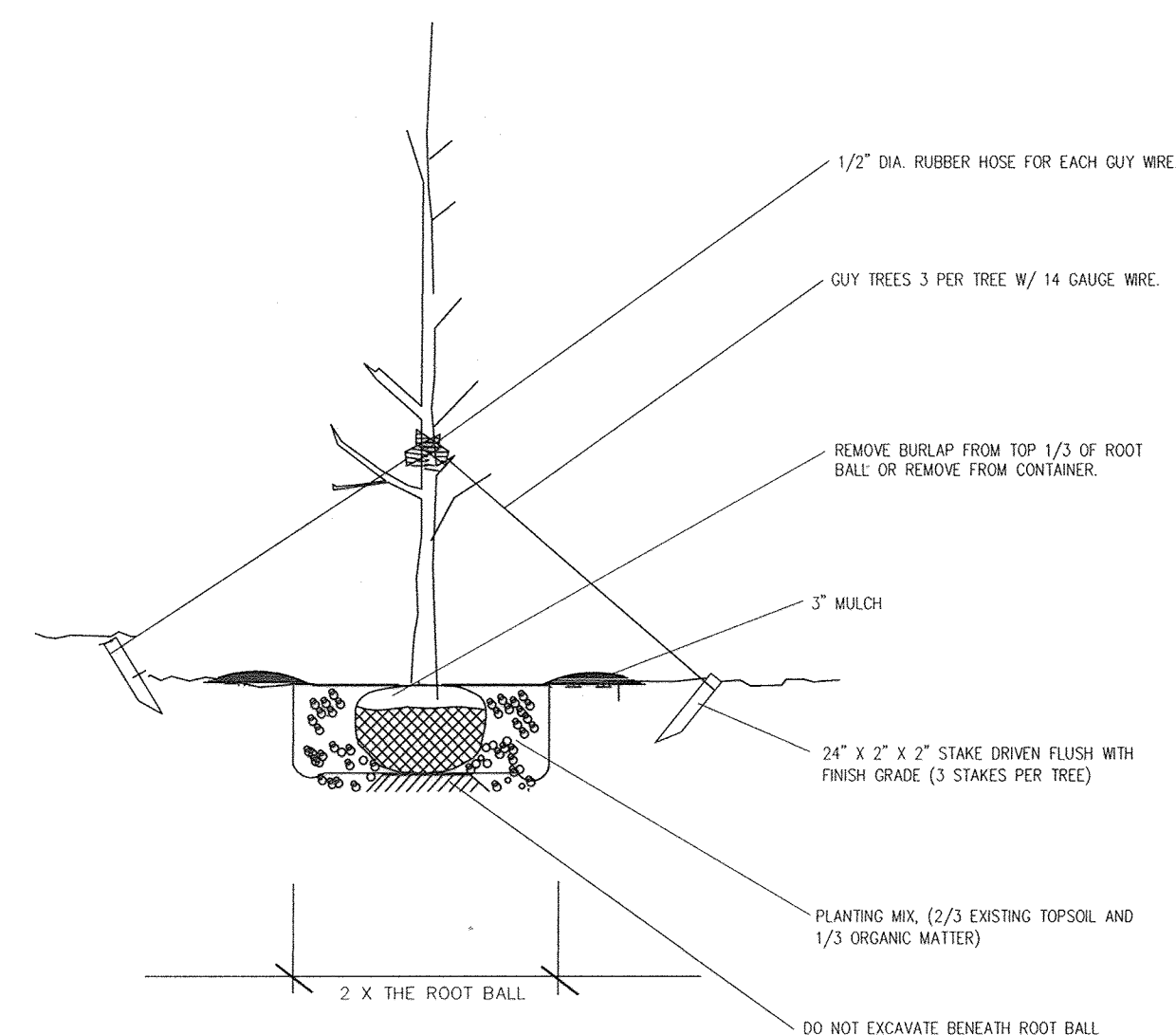
DECIDUOUS TREE - TYPICAL PLANTING DETAIL



MULTISTEM TREE - TYPICAL PLANTING DETAIL



SHRUB AND HEDGEROW - TYPICAL PLANTING DETAIL



EVERGREEN TREE - TYPICAL PLANTING DETAIL

PLANTING SPECIFICATIONS

1. CLEAR & GRUB ALL PLANTING AREAS AS INDICATED ON THE DRAWINGS.
2. PROVIDE PROTECTION FOR TREES, SHRUBS, AND PERENNIALS/GROUND COVERS THAT ARE TO BE PRESERVED.
3. CONTRACTOR SHALL VERIFY THE CORRECT LOCATION OF ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO INSTALLATION OF ANY PLANT MATERIALS.
4. ALL PLANTING SHALL BE DONE AS PER PLANTING DETAILS AND SPECIFICATIONS.
5. NO CHANGES SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER OR LANDSCAPE ARCHITECT.
6. PRIOR TO CONSTRUCTION OF PLANTING BEDS, THE CONTRACTOR SHALL STAKE OUT PLANTING BED LINES IN THE FIELD FOR REVIEW BY THE LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT SHALL MAKE ADJUSTMENTS IN THE FIELD AS NECESSARY. ALL FINAL PLANTING BED LOCATIONS ARE TO BE APPROVED BY THE LANDSCAPE ARCHITECT. FOR LAYOUT REVIEW, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT A MINIMUM OF THREE DAYS IN ADVANCE.
7. INSTALL ALL REQUIRED PLANTING AND LAWN SOILS AS PER DETAILS AND SPECIFICATIONS, AND ALL SHRUBS, GROUND COVERS, AND PERENNIALS SHALL BE PLANTED IN PLANTING BEDS PREPARED AS REQUIRED BY THE DETAILS AND SPECIFICATIONS.
8. MAINTAIN POSITIVE DRAINAGE OUT OF PLANTING BEDS AT A MINIMUM 2% SLOPE AND MAINTAIN POSITIVE DRAINAGE OF ALL LAWN AREAS, UNLESS OTHERWISE NOTED ON DRAWINGS. ALL GRADES, DIMENSIONS, AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR ON SITE BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OR OWNER.
9. ALL PLANT BEDS SHALL BE CONTAINED WITH A SPADED EDGE UNLESS OTHERWISE NOTED ON DRAWINGS.
10. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE DRAWINGS AND QUANTITIES SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE DRAWINGS SHALL APPLY. REPORT DISCREPANCIES TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO BIDDING.
11. ALL PLANTS SHALL CONFORM TO THE SIZES GIVEN IN THE PLANT LIST AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), LATEST EDITION.
12. PLANTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS. PRIOR TO PLANTING, THE CONTRACTOR SHALL STAKE OUT THE LOCATIONS OF ALL PLANTS IN THE FIELD FOR REVIEW BY THE LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT SHALL MAKE ADJUSTMENTS IN THE FIELD AS NECESSARY. ALL FINAL PLANT LOCATIONS ARE TO BE APPROVED BY THE LANDSCAPE ARCHITECT. FOR LAYOUT REVIEW, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT A MINIMUM OF THREE DAYS IN ADVANCE.
13. ALL DISTURBED AREAS SHALL BE FINE GRADED AND SEEDED OR SOODED; SEE PLAN FOR LOCATIONS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND MAINTAINING ALL PLANTS DURING THE WARRANTY PERIOD; REFER TO SPECIFICATIONS.

AS-BUILT CERTIFICATION FOR PSWMM

Note: There is no "AS BUILT" information provided on this sheet.

*[Signature]*  
ALDO H. VITTOLO NO. 90748 Date 4/16/17

LANDSCAPE DEVELOPER'S CERTIFICATE

I/we certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Howard County Landscape Manual. I/we further certify that upon completion a letter of landscape installation accompanied by an executed one year guarantee of plant materials will be submitted to the Department of Planning and Zoning.

U.S. HOME CO. Name Joseph Josephus Date 6/9/2015



SCHEDULE C RESIDENTIAL DEVELOPMENT INTERNAL LANDSCAPING	
NUMBER OF DWELLING UNITS (SFA)	18
(CONDOS)	24
NUMBER OF TREES REQUIRED (1:DU SFA)	18
(1:3 DU CONDOS)	8
NUMBER OF TREES PROVIDED (SHADE TREES)	26
OTHER TREES (2:1 SUBSTITUTION)	--

STREET TREE SCHEDULE				
SYMBOL	QTY.	BOTANICAL AND COMMON NAME	SIZE	COMMENTS
(LSC)	4	Liquidambar styraciflua 'Cherokee' Cherokee Sweetgum (seedless only)	2 1/2" CAL. MIN.	ALONG PRIVATE ROAD SOUTHMOOR STREET (SEE PLAN)

NOTE: FINAL PLACEMENT OF STREET TREES WILL OCCUR IN THE FIELD AND BE PLACED A MINIMUM OF 30 FEET FROM ALL SIGNS AND INTERSECTIONS WHEN PLANTED BETWEEN SIDEWALK AND CURB. BE LOCATED WITH CONSIDERATION OF UNDERGROUND UTILITIES AND STRUCTURES AND MAINTAIN A MINIMUM 5 FEET DISTANCE ON CENTER FROM A DRAIN INLET STRUCTURE, 5 FEET FROM AN OPEN SPACE ACCESS STRIP AND 10 FEET FROM A DRIVEWAY.

FINANCIAL SURETY FOR THE 4 STREET TREES SHALL BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$1,200.00

PERIMETER	SCHEDULE A PERIMETER LANDSCAPE EDGE		
	P2	P3	P4
CATEGORY	Adjacent to Roadway (Residential)	Res. Adjacent to Other	Res. Adjacent to Other
LANDSCAPE TYPE	B	A	A
LINEAR FEET OF PERIMETER	506.98'	470.63'	1188.54'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	NO	NO	600' (SDP-13-06a) 588.54' (SDP-14-019)
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET)	NO	NO	NO
NUMBER OF PLANTS REQUIRED (SHADE TREES)	10	8	0
(EVERGREEN TREES)	13	--	0
(SHRUBS)	--	--	--
NUMBER OF PLANTS PROVIDED (SHADE TREES)	10	8	--
(EVERGREEN TREES)	13	--	--
(ORNAMENTAL TREES)	--	--	--
(SHRUBS (10:1 SUBSTITUTION))	--	--	--
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	--	--	--

PLANT LIST (SDP-14-071)

QTY.	SYM.	BOTANICAL/Common NAME	SIZE	CONT.	REMARKS
<b>DECIDUOUS TREES</b>					
3	AFA	Acer x Freemanii 'Autumn Blaze'	2-1/2" cal. min.	B&B	Seedless Only
18	BNH	Betula nigra 'Heritage'	2-1/2" cal. min.	B&B	Multistem/4 canes min.
5	GTI	Gleditsia triacanthos var. inermis 'Skyline'	2-1/2" cal. min.	B & B	Thornless
6	KPA	Koeleruteria paniculata Goldenraintree	2-1/2" cal. min.	B&B	
7	LSC	Liquidambar styraciflua 'Cherokee' Sweetgum	2-1/2" cal. min.	B&B	Seedless/Street Tree
3	LST	Liquidambar styraciflua Sweetgum	2-1/2" cal. min.	B&B	
4	AOG	Acer rubrum 'October Glory' Red Maple	2-1/2" cal. min.	B&B	
3	OAR	Oxydendrum arboreum Sourwood	2-1/2" cal. min.	B&B	
<b>ORNAMENTAL TREES</b>					
8	LIB	Lagerstroemia x 'Biloxi' Biloxi Crape myrtle	8'-10" ht. min.	B & B	Multistem/4 canes min.
9	LIN	Lagerstroemia indica x fauriei 'Natchez' Natchez Crape myrtle	8'-10" ht. min.	B & B	Multistem/4 canes min.
12	MVI	Magnolia virginiana Sweetbay Magnolia	8'-10" ht. min.	B & B	Multistem/4 canes min.
<b>EVERGREEN TREES</b>					
3	CRJ	Cryptomeria japonica Japanese Cryptomeria	6'-8" ht. min.	B & B	
3	IAF	Ilex x attenuata 'Fosteri' Foster's Holly	6'-8" ht. min.	B & B	
<b>ESD SHRUBS</b>					
33	CLB	Caryopteris x clandonensis 'Longwood Blues' Caryopteris	#1	Cont.	30" O.C.
51	IGS	Ilex glabra 'Shamrock' Inkberry	24"-30" Ht.	Cont.	30" o.c./Male Cultivar
24	ITH	Ita virginica 'Little Henry' Dwarf Virginia Sweetspire	18" - 24" Ht.	3 Gal.	36" o.c. min.
33	PVS	Panicum virgatum 'Shenandoah' Switchgrass	18" - 24" Ht.	3 Gal.	36" o.c. min.
<b>PERENNIALS</b>					
200	TRC	Tiarella cordifolia Foamflower	#1	Cont.	18" o.c. min.

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING TREES (33 SHADE, 6 EVERGREEN & 25 ORNAMENTAL TREES) SHALL BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$15,300.00

IN ADDITION, FINANCIAL SURETY FOR THE 10 SHADE TREES & 3 ORNAMENTAL TREES SHALL BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$3,450.00 TO MEET THE GN CREDIT E-1.

THE DEVELOPER IS PROPOSING 49 SHADE, 29 ORNAMENTAL & 6 EVERGREEN TREES.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*[Signature]*  
Ketsch, Division of Land Development Date 9-23-15  
*[Signature]*  
Chief, Development Engineering Division A Date 1-8-15  
*[Signature]*  
Director - Department of Planning and Zoning Date 9-24-16

SUBDIVISION	OXFORD SQUARE	PARCEL NO.	'C'	LOT NOS.	LOTS 224-241 & CONDO. BLDGS. 1-3
PLAT NO.	23450-23451	BLOCK NO.	---	ZONE	TOD
TAX/ZONE	3B	ELEC. DIST.	1st.	CENSUS TR.	601101

LANDSCAPING NOTES & DETAILS

OXFORD SQUARE

"A Howard County Green Neighborhood"  
Lots 224-241, Open Space Lots 242 & 243  
And Parcel 'U'  
(Being A Resubdivision Of Parcel 'C', As Shown On Plans Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels 'C', 'E', 'F', 'G', 'H', 'I', 'J', 'K' And 'M' And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22896 Thru 22899)  
Zoned: TOD  
Tax Map No.: 3B Grid No.: 20 Parcel No.: 1003  
First Election District: Howard County, Maryland  
Scale: As Shown  
Date: May 7, 2015  
Sheet 12 of 20

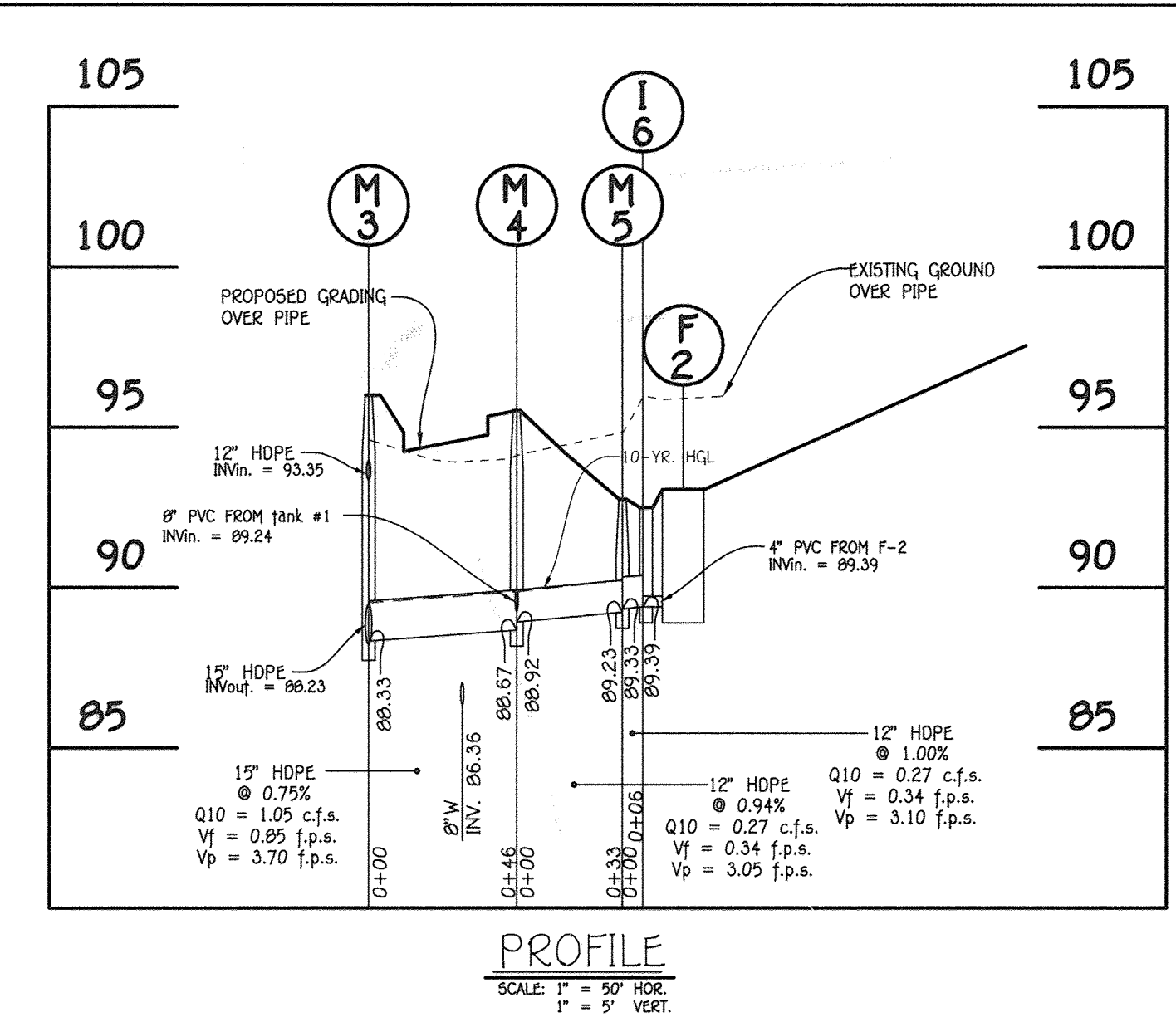
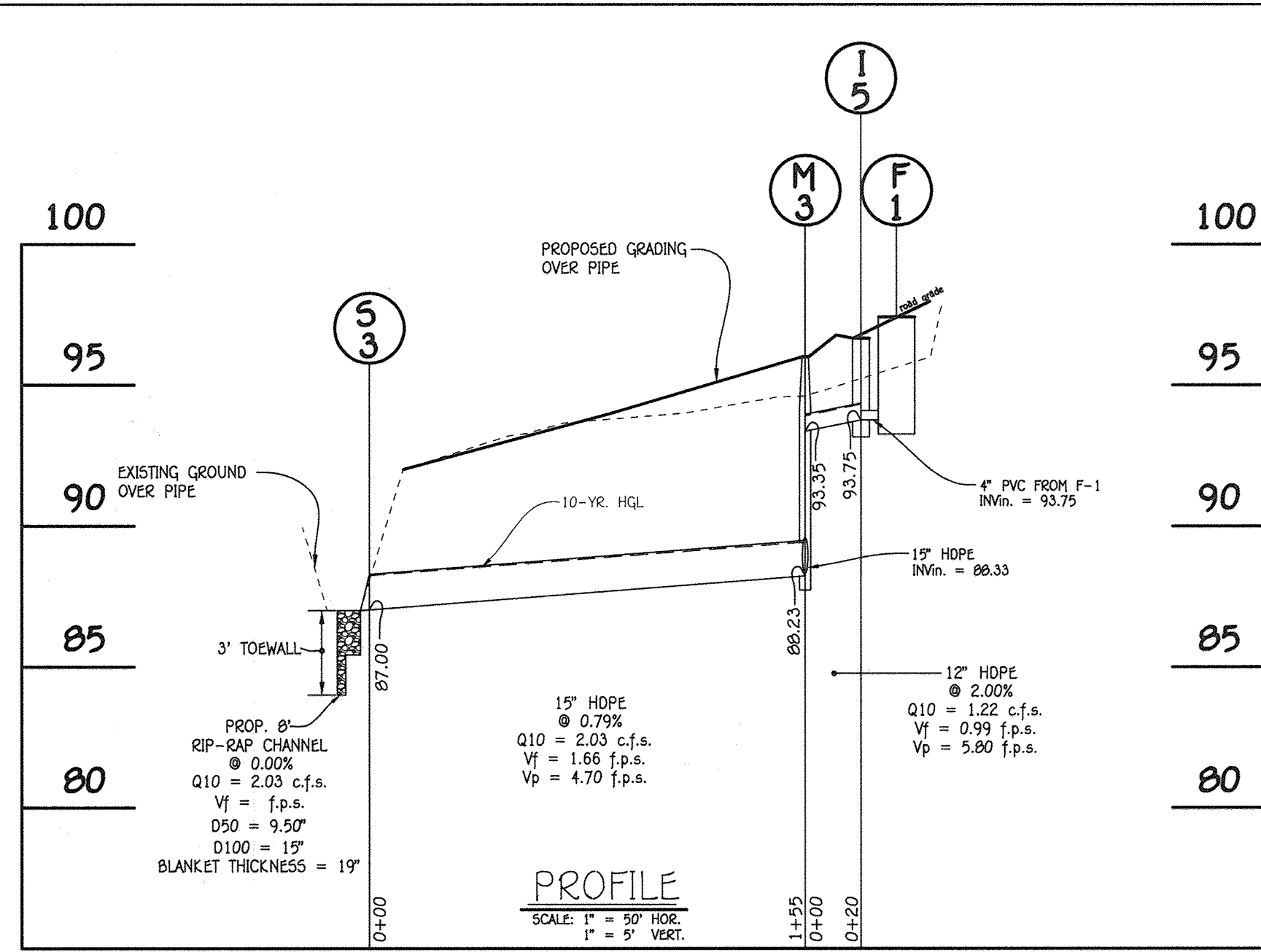
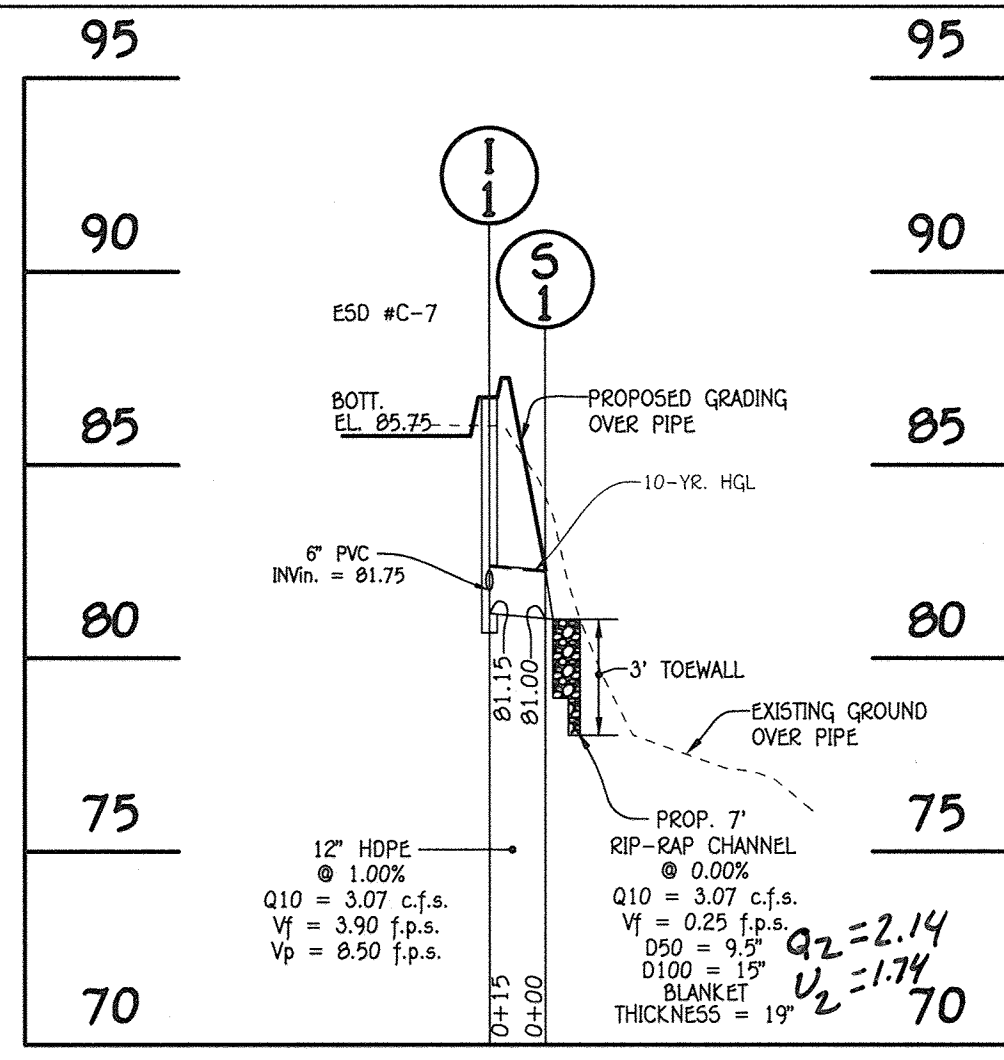
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

NO.	REVISION	DATE

**STRUCTURE SCHEDULE-PRIVATE OWNERSHIP**

STRUCTURE NO.	TOP ELEVATION	INV. IN	INV. OUT	NORTH	EAST	ROAD STA.	OFFSET	TYPE AND WIDTH	REMARKS
I-1	86.75	81.75 (6")	81.15 (12")	N:551790.88	E:1387042.86	---	---	5' INLET	D-4.22
I-2	89.00	84.50 (6"), 81.40 (15")	81.30 (15")	N:551843.46	E:1386932.76	---	---	5' INLET	D-4.22
I-3	90.25	85.25 (6")	84.75 (12")	N:551892.96	E:1386869.93	---	---	A-5 INLET	D-4.01
I-4	87.49	84.19 (6")	77.40 (12")	N:551908.95	E:1387071.91	---	---	A-5 INLET	D-4.01
I-5	96.66	93.75 (12")	93.75 (12")	N:552071.33	E:1386826.47	---	---	A-5 INLET	D-4.01
I-6	92.49	89.39 (4")	89.39 (12")	N:552028.06	E:1386918.87	---	---	A-5 INLET	D-4.01
I-7	89.55	86.17 (6"), 84.67 (8")	83.67 (12")	N:551964.56	E:1386985.53	---	---	A-5 INLET	D-4.01
I-8	92.17	---	---	N:551992.22	E:1386825.29	---	---	COG/COS OPENING	MD-374.68
M-1	88.49	82.11 (15"), 80.59 (15")	80.34 (18")	N:551822.55	E:1386905.75	---	---	4' DIA. MANHOLE	G-5.12
M-2	90.06	84.37 (12")	82.67 (15")	N:551955.88	E:1386860.64	---	---	4' DIA. MANHOLE	G-5.12
M-3	96.10	93.35 (12"), 88.33 (15")	88.23 (15")	N:552060.32	E:1386842.85	---	---	4' DIA. MANHOLE	G-5.12
M-4	94.50	88.92 (12"), 89.24 (8")	88.67 (15")	N:552039.71	E:1386884.74	---	---	4' DIA. MANHOLE	G-5.12
M-5	93.90	89.33 (12")	89.23 (12")	N:552023.03	E:1386913.09	---	---	4' DIA. MANHOLE	G-5.12
M-6	89.75	83.41 (15")	83.16 (15")	N:551952.12	E:1386985.03	---	---	4' DIA. MANHOLE	G-5.12
S-1	82.00	81.00	---	N:551794.50	E:1387049.91	---	---	FLARED END SECTION	ADS OR EQUAL
S-2	81.57	80.07	---	N:551778.70	E:1386899.75	---	---	FLARED END SECTION	ADS OR EQUAL
S-3	88.25	87.00	---	N:551920.14	E:1386773.77	---	---	FLARED END SECTION	ADS OR EQUAL
E-1	77.75	76.00	---	N:551881.84	E:1387094.06	---	---	TYPE 'C' ENDWALL	D-5.21
F-1	97.42	---	93.75 (4")	N:552074.48	E:1386817.63	---	---	FILTERRA BIO-RETENTION SYSTEM - 5' x 13'	
F-2	93.06	---	89.39 (4")	N:552033.28	E:1386909.47	---	---	FILTERRA BIO-RETENTION SYSTEM - 5' x 13'	
F-3	89.84	---	86.17 (6")	N:551965.55	E:1386976.43	---	---	FILTERRA BIO-RETENTION SYSTEM - 7' x 17'	
F-4	87.86	---	84.19 (6")	N:551912.50	E:1387082.24	---	---	FILTERRA BIO-RETENTION SYSTEM - 7' x 17'	
F-5	87.90	---	84.23 (6")	N:551800.60	E:1386965.71	---	---	FILTERRA BIO-RETENTION SYSTEM - 9' x 21'	

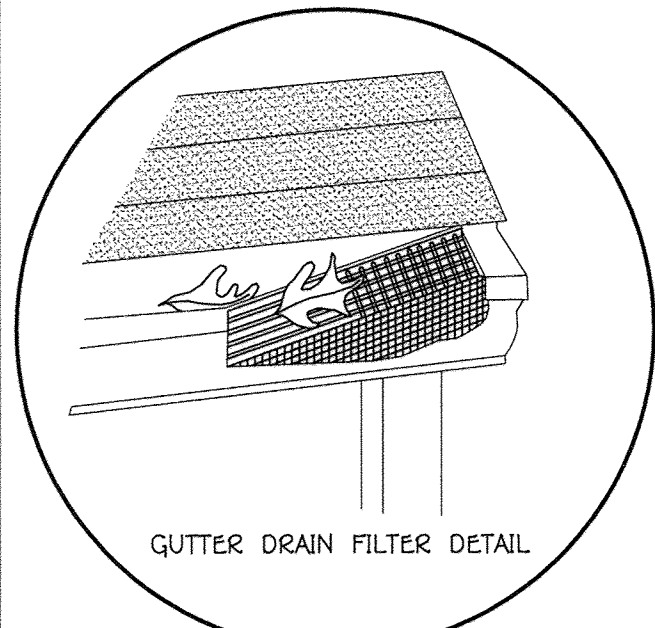
15" BASIN TOP ELEVATION IS TOP OF STRUCTURE BEFORE THE DOME CAP IS INSTALLED.  
5' INLET TOP ELEVATION IS TOP OF STRUCTURE BEFORE GRATE IS INSTALLED.



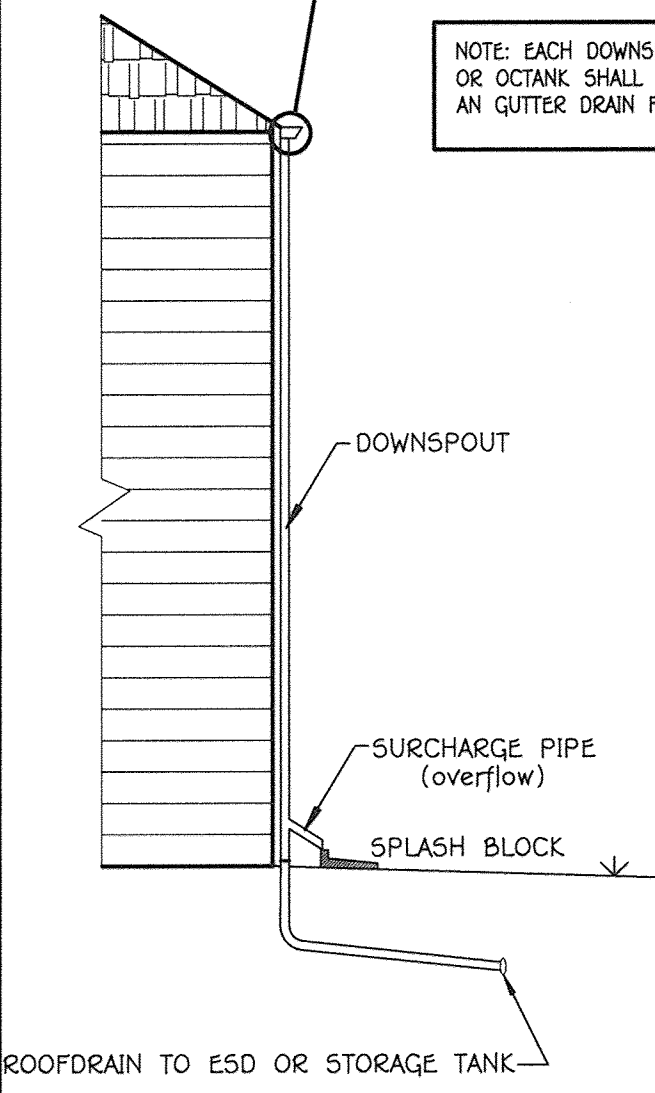
SIZE	CLASS	LENGTH
4"	PVC, SCH. 40	49 L.F.
6"	PVC, SCH. 40 (PSPORATED)	336 L.F.
6"	PVC, SCH. 40	846 L.F.
8"	PVC, SCH. 40	202 L.F.
12"	HDPE	144 L.F.
15"	HDPE	460 L.F.
18"	HDPE	46 L.F.

NOTE: HDPE PIPE MAY BE SUBSTITUTED WITH RCP, CL. IV PIPE.

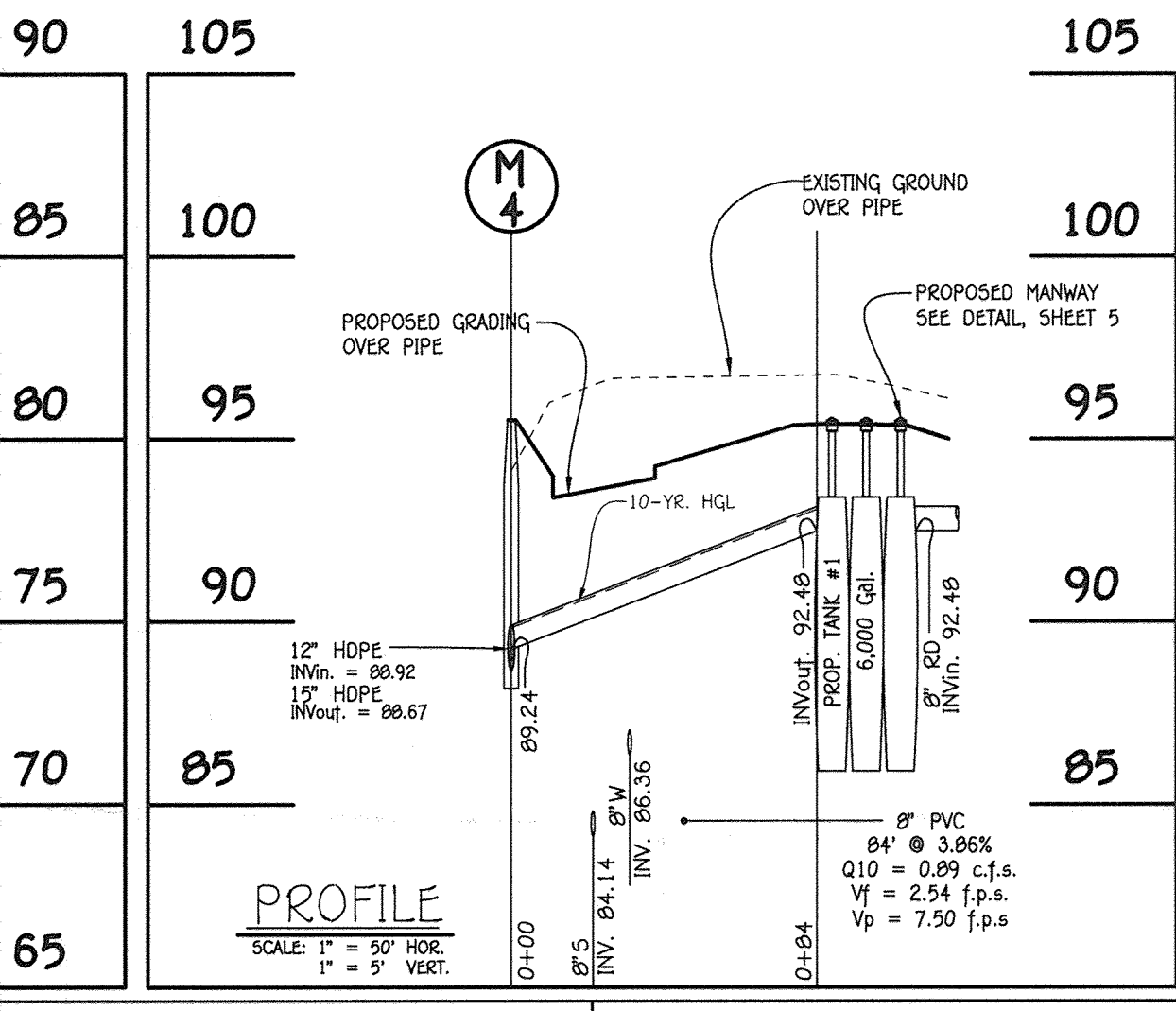
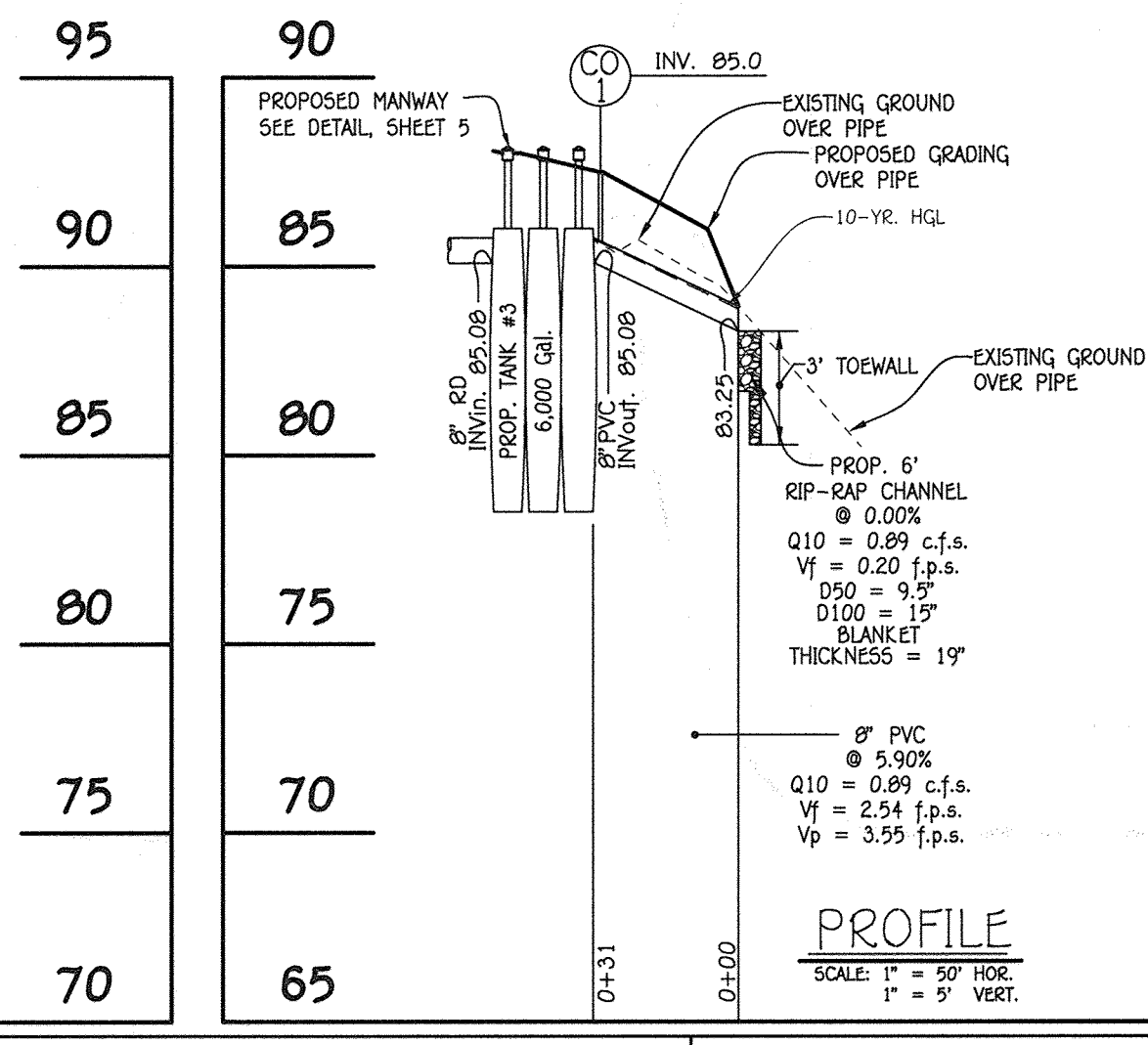
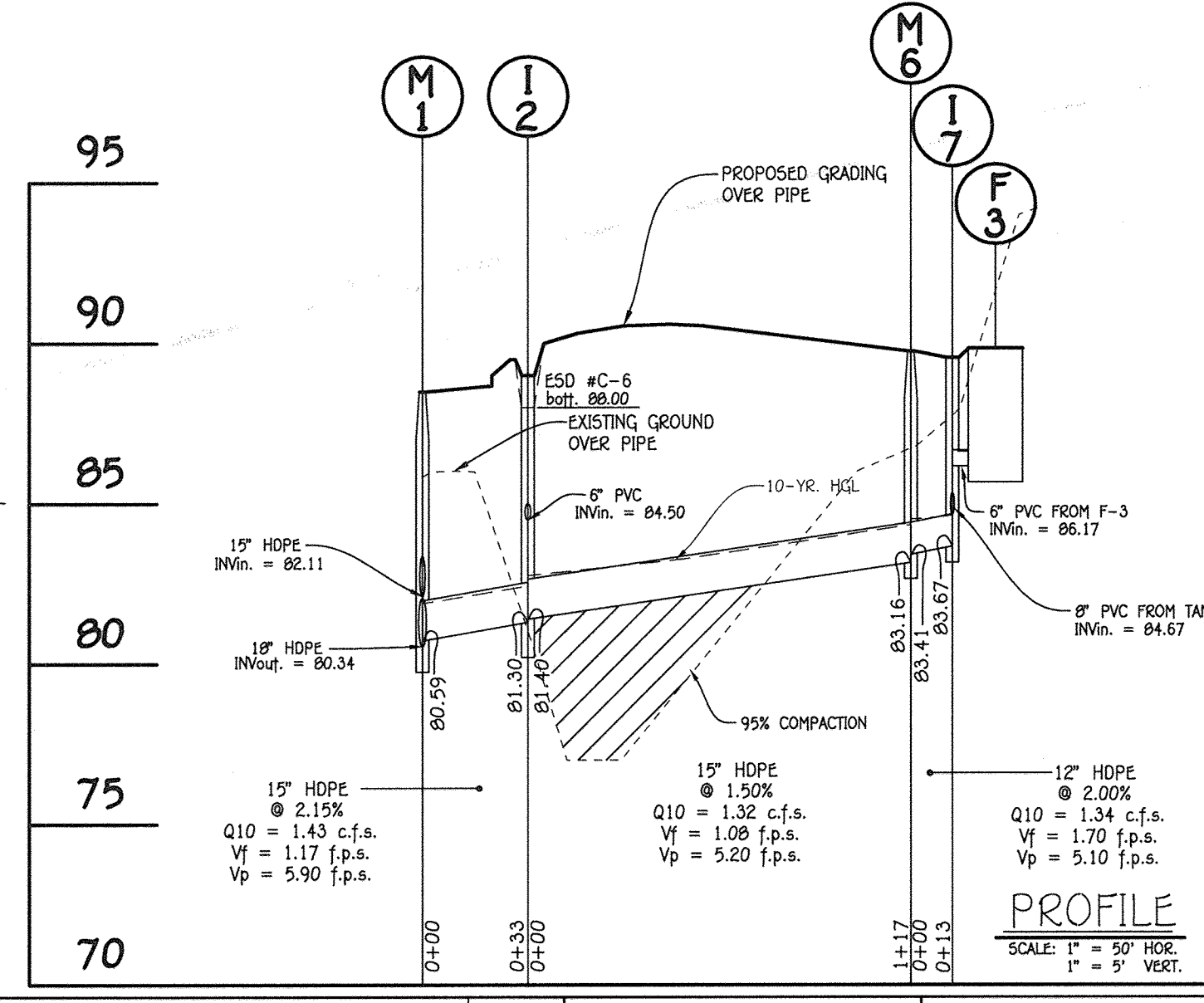
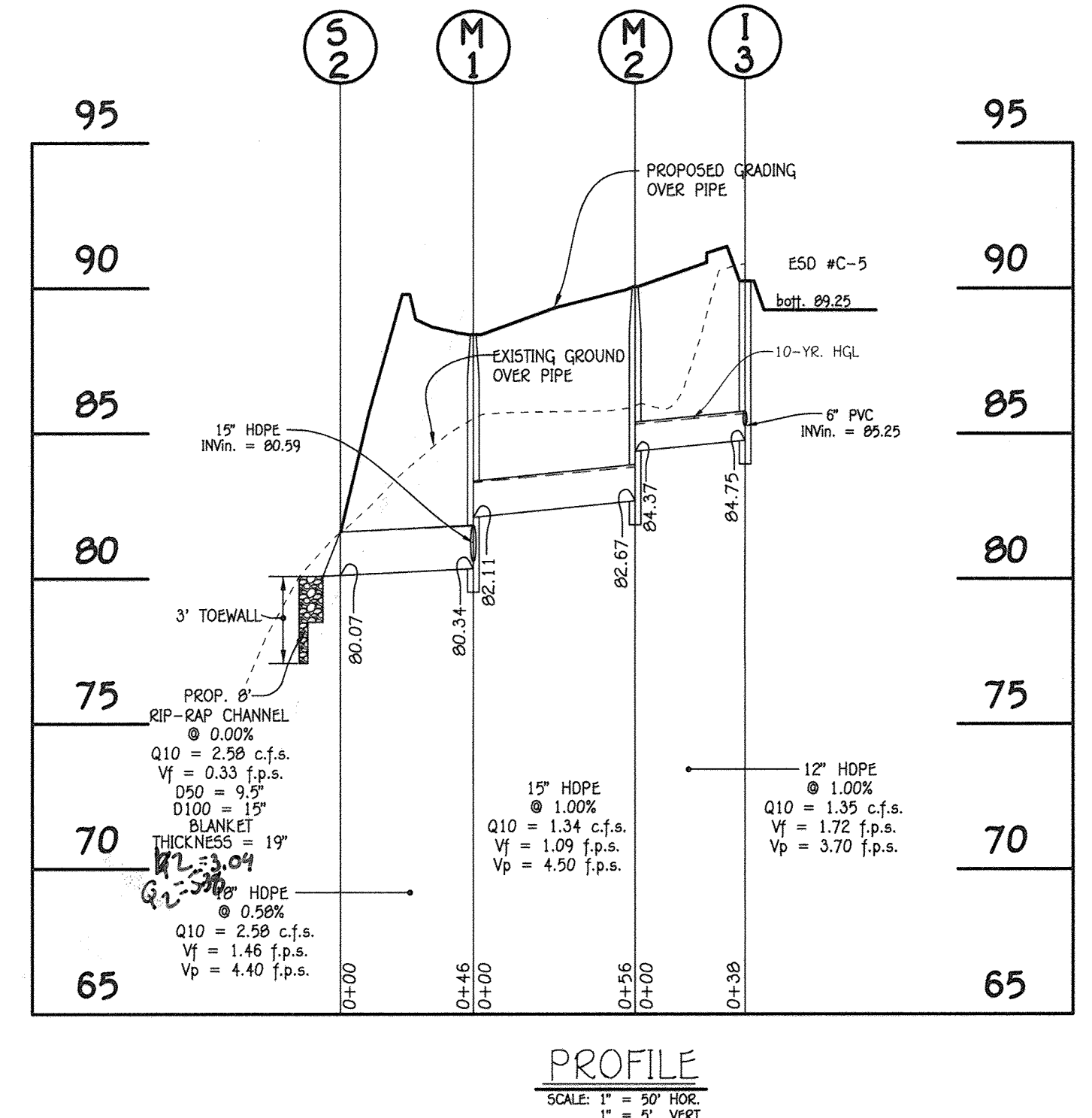
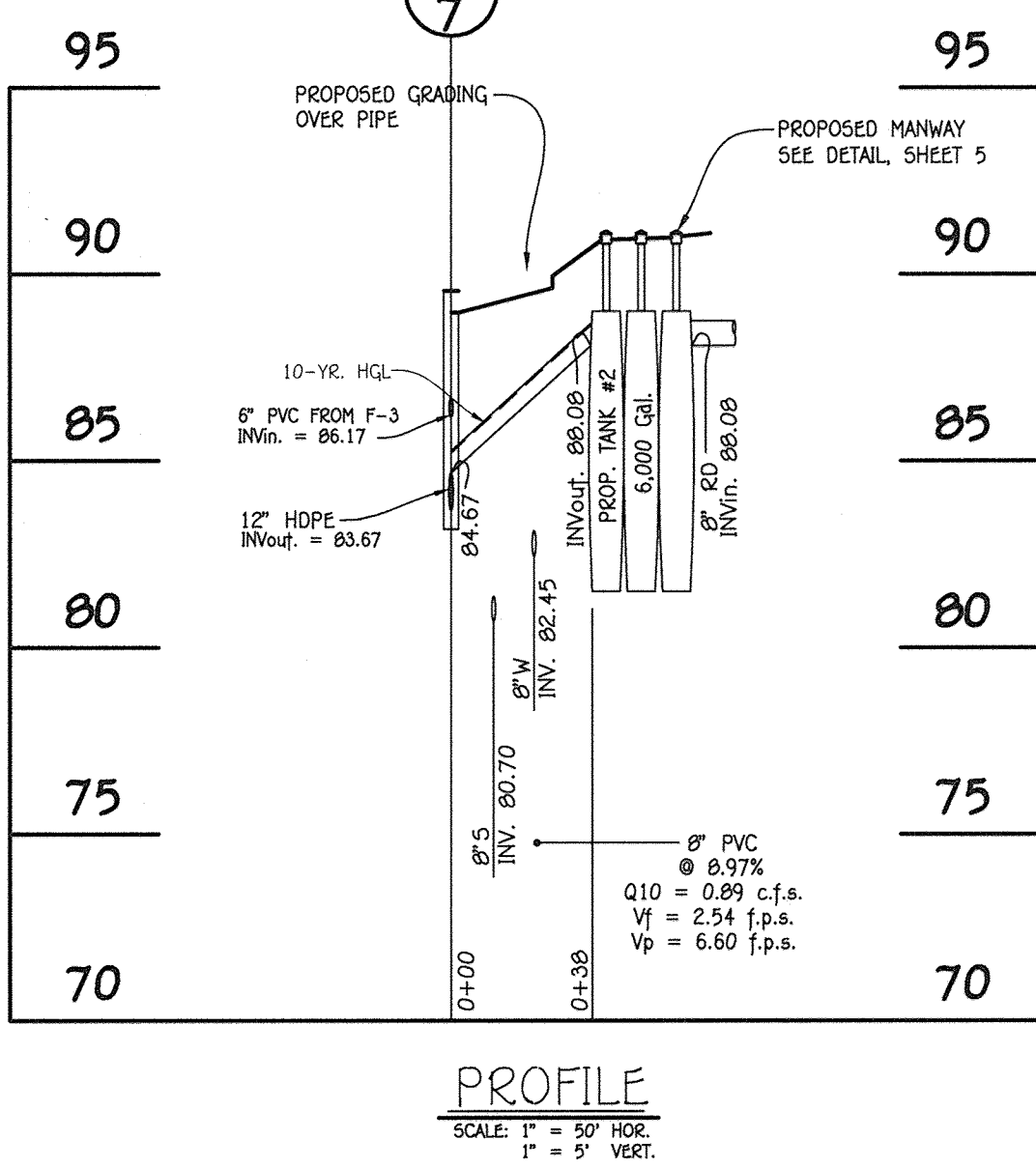
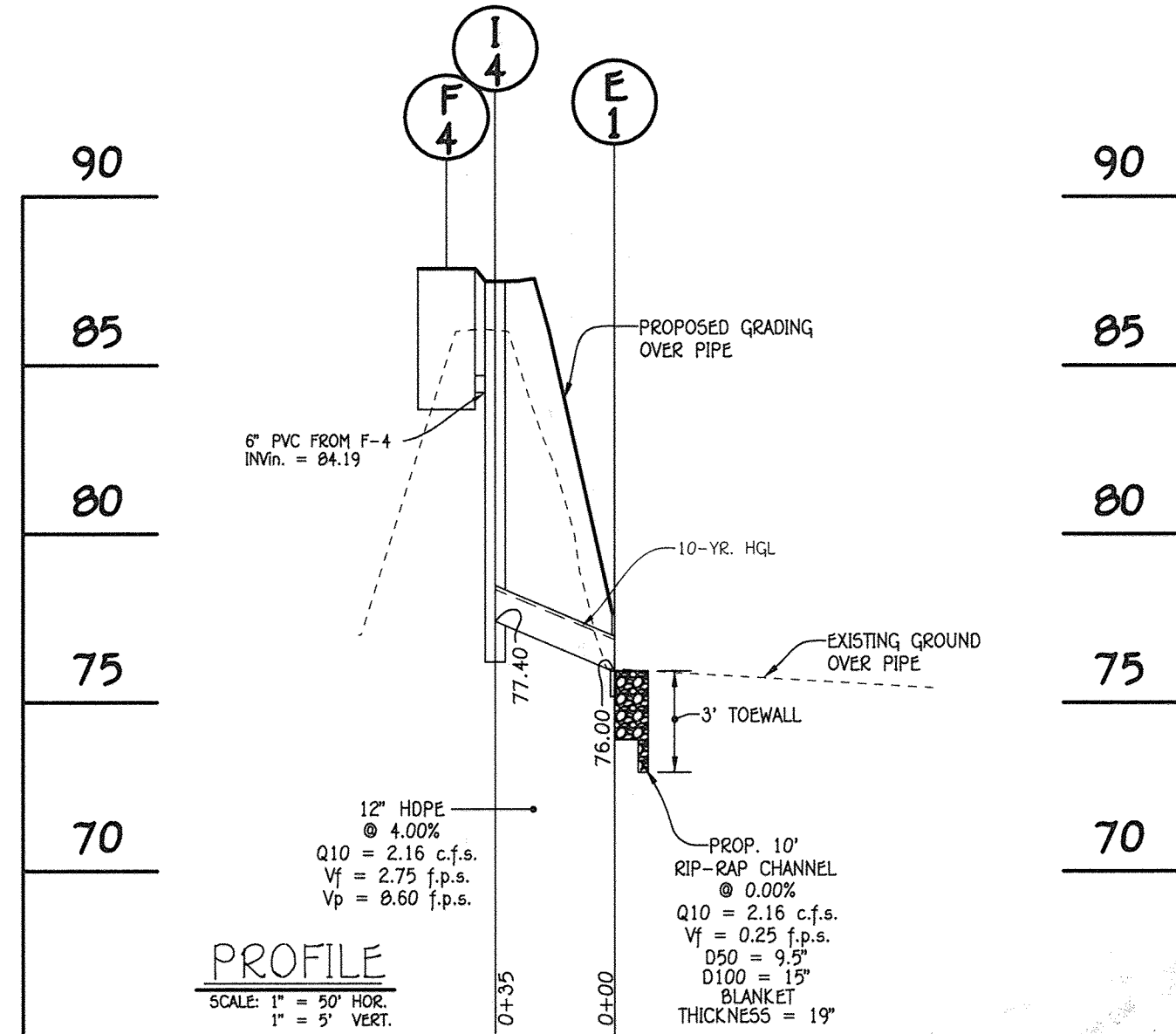
STRUCTURE NO.	TOP ELEVATION	INVERT
C.O. #1	87.5	85.0
C.O. #2	90.0	87.0
C.O. #3	88.4	85.6
C.O. #4	88.4	85.3
C.O. #5	90.8	87.8
C.O. #6	93.2	90.2
C.O. #7	91.6	88.6
C.O. #8	91.8	89.0
C.O. #9	94.2	91.0
C.O. #10	98.0	95.0
C.O. #11	96.0	93.0
C.O. #12	96.0	93.0
C.O. #13	98.5	95.5
C.O. #14	91.2	88.5
C.O. #15	89.5	87.0
C.O. #16	89.5	86.3
C.O. #17	87.9	86.4
C.O. #18	88.0	85.9



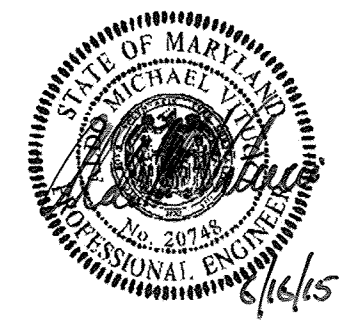
NOTE: EACH DOWNSPOUT THAT DRAINS TO AN ESD OR STORAGE TANK SHALL HAVE AN OVERFLOW AND HAVE AN GUTTER DRAIN FILTER.



TYPICAL DOWNSPOUT FOR UNITS USING A ROOF DRAIN  
NO SCALE  
Scale: 1" = 50'



**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10275 BALTIMORE NATIONAL PARK  
ELICOTT CITY, MARYLAND 21042  
(410) 461-2895



AS-BUILT CERTIFICATION FOR PSWM  
Note: There is no "AS BUILT" information provided on this sheet.  
*Michael J. Fisher*  
4/10/19 Date

**Owner/Builder**  
Lennar  
10211 Wincopin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

**Developer**  
Lennar  
10211 Wincopin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Kathleen D... [Signature]*  
Chief, Division of Land Development  
Date: 9-23-15

*[Signature]*  
Chief, Development Engineering Division  
Date: 7-8-15

*Nicholas J... [Signature]*  
Director - Department of Planning and Zoning  
Date: 9-24-15

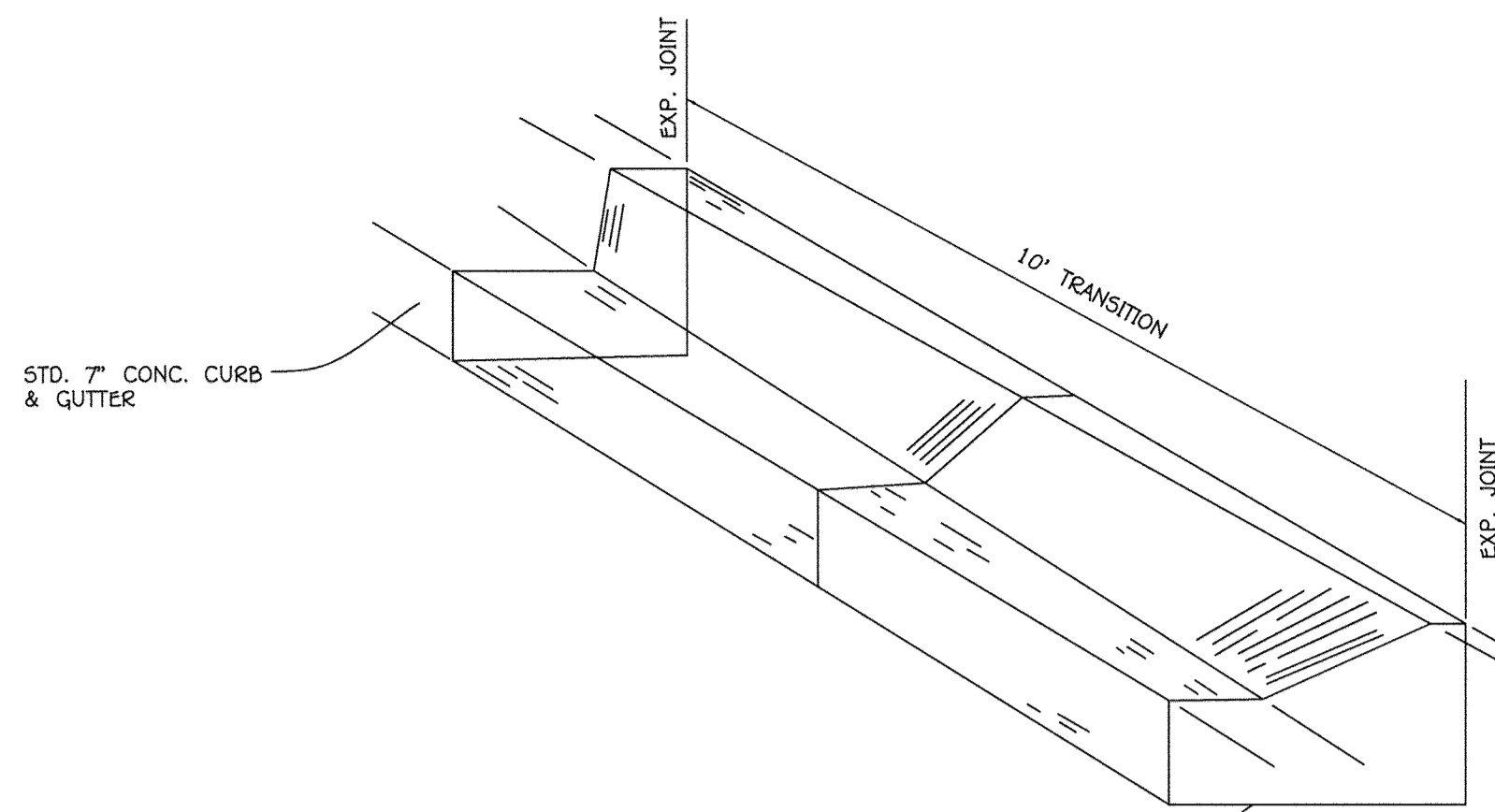
**STORM DRAIN PROFILES**  
**OXFORD SQUARE**  
"A Howard County Green Neighborhood"  
Lots 224-241, Open Space Lots 242 & 243  
And Parcel 'U'

(Being A Resubdivision Of Parcel 'C', As Shown On Plats Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels 'C', 'E', 'F', 'G', 'H', 'I', 'J', 'K' And 'M' And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22856 Thru 22859.)

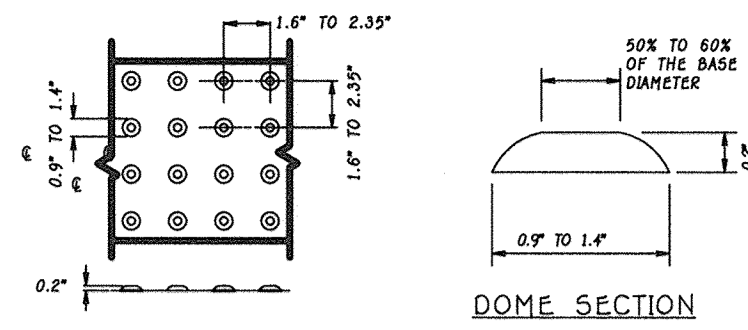
Zone: TOD  
Tax Map No.: 3B Grid No.: 20 Parcel No.: 1003  
First Election District: Howard County, Maryland  
Scale: As Shown  
Date: May 7, 2014  
Sheet 13 Of 20

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

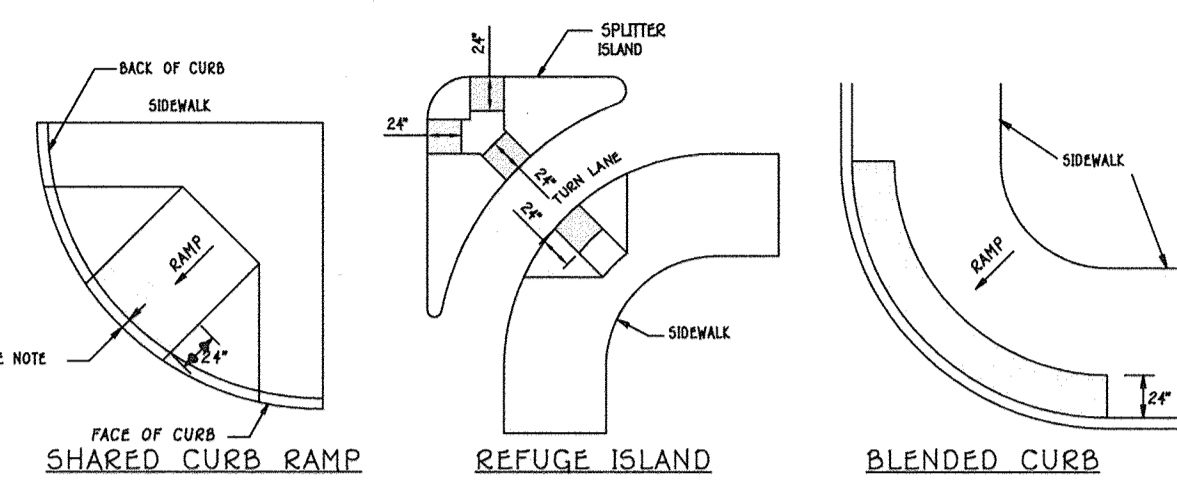
**(MATT DETAILS OR OPTIONAL 12"x12" TILE TECH PAVERS(RED))**



**CONCRETE CURB & GUTTER TRANSITION**  
NO SCALE



**PLACEMENT GUIDELINES**

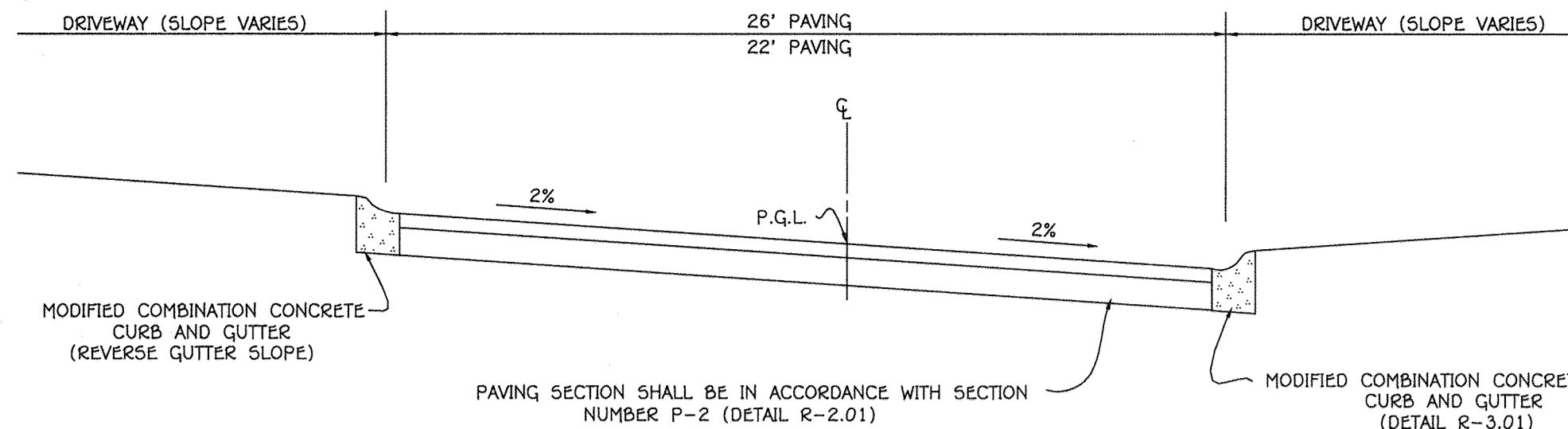


**NOTES**

1. THE DETECTABLE WARNING SURFACE SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6 TO 8 INCHES FROM THE FACE OF CURB.
2. FOR SKEWED APPLICATIONS DETECTABLE WARNING SHALL BE PLACED SUCH THAT THE DOMES CLOSEST TO THE BACK OF CURB ARE NO LESS THAN 0.5' AND NO MORE THAN 3.0' FROM THE BACK OF CURB. TRUNCATED DOME SURFACES SHALL BE FABRICATED TO PROVIDE FULL DOMES ONLY.
3. DETECTABLE WARNING SURFACE SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 611 OF THE SPECIFICATIONS.
4. DETECTABLE WARNING SURFACES ARE REQUIRED AT STREET CROSSING & SIGNALIZED INTERSECTIONS.

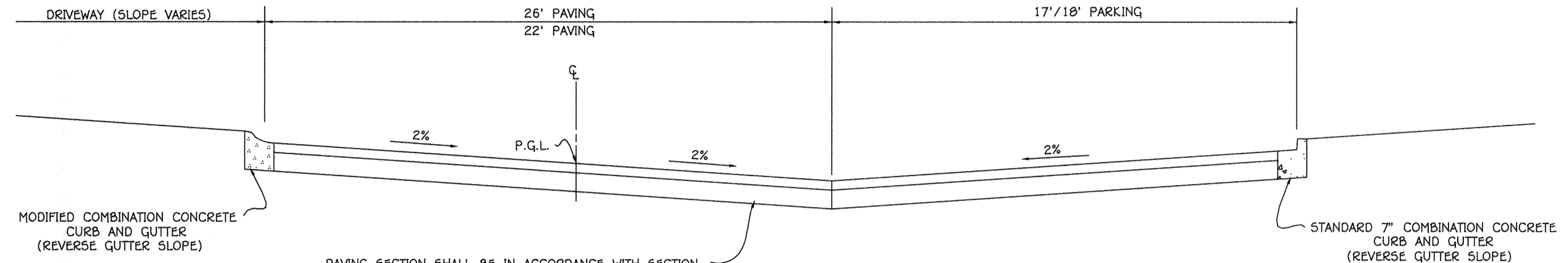
**DETECTABLE WARNING SURFACE GUIDELINES**

STD. DETAIL NO. 655-40



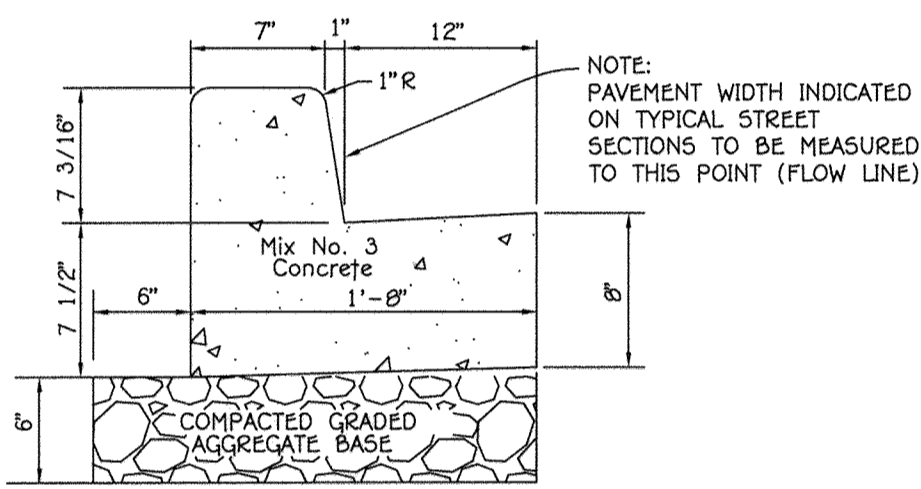
**TYPICAL PRIVATE ACCESS STREET**

NO SCALE



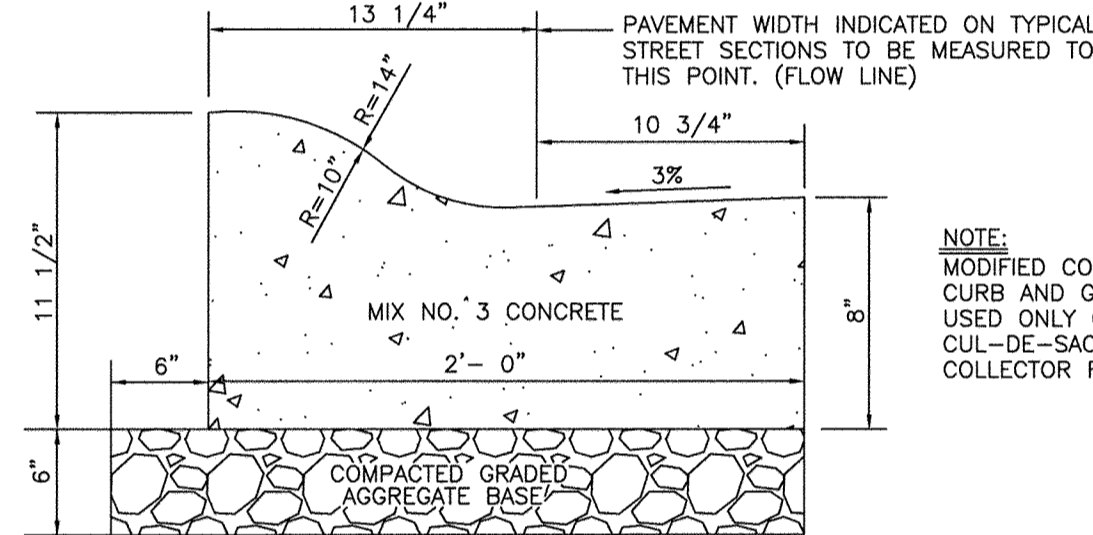
**TYPICAL PRIVATE ACCESS STREET**

NO SCALE



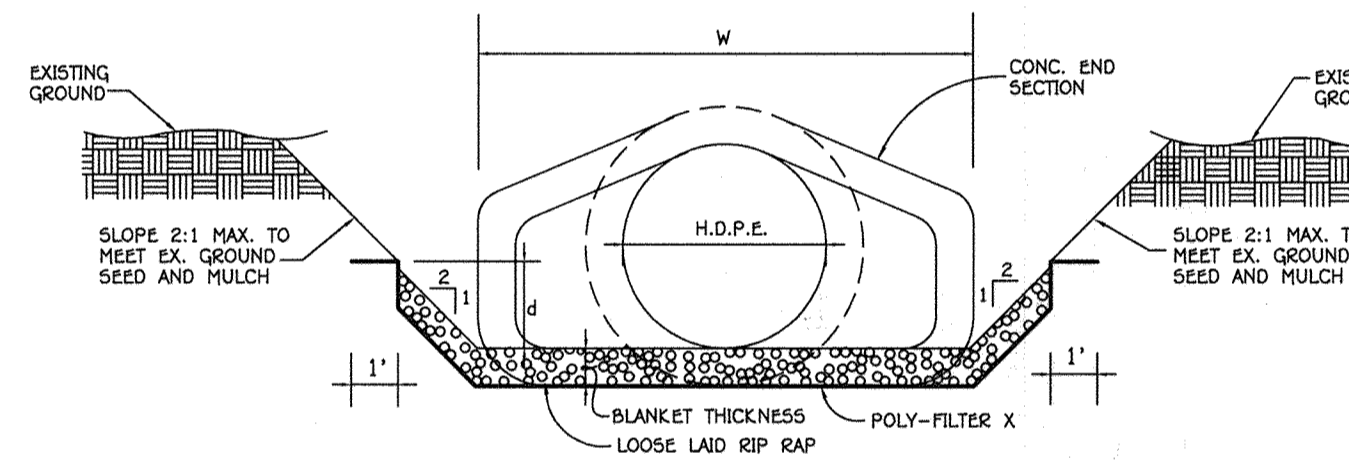
**STD. 7" CONC. CURB AND GUTTER**

NO SCALE DETAIL R-3.01



**MODIFIED COMBINATION CURB AND GUTTER**

NO SCALE DETAIL R-3.01



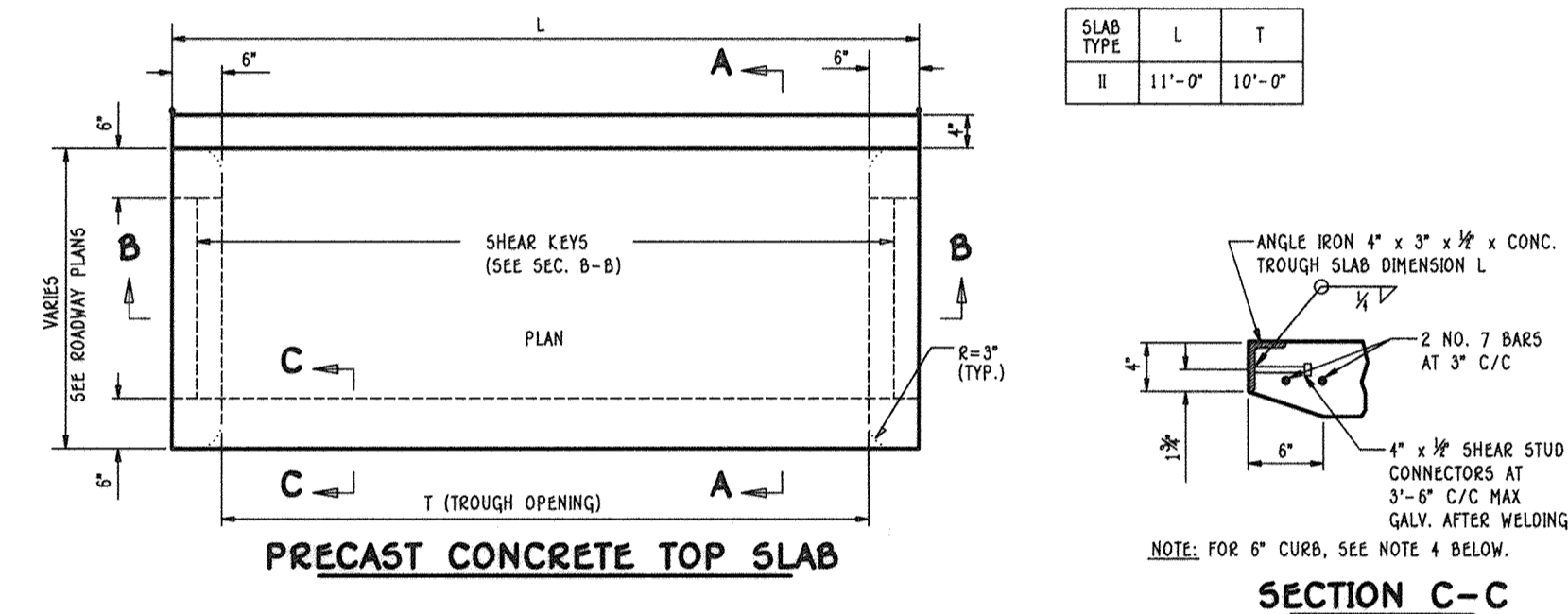
**RIP RAP CHANNEL DETAIL**

NO SCALE

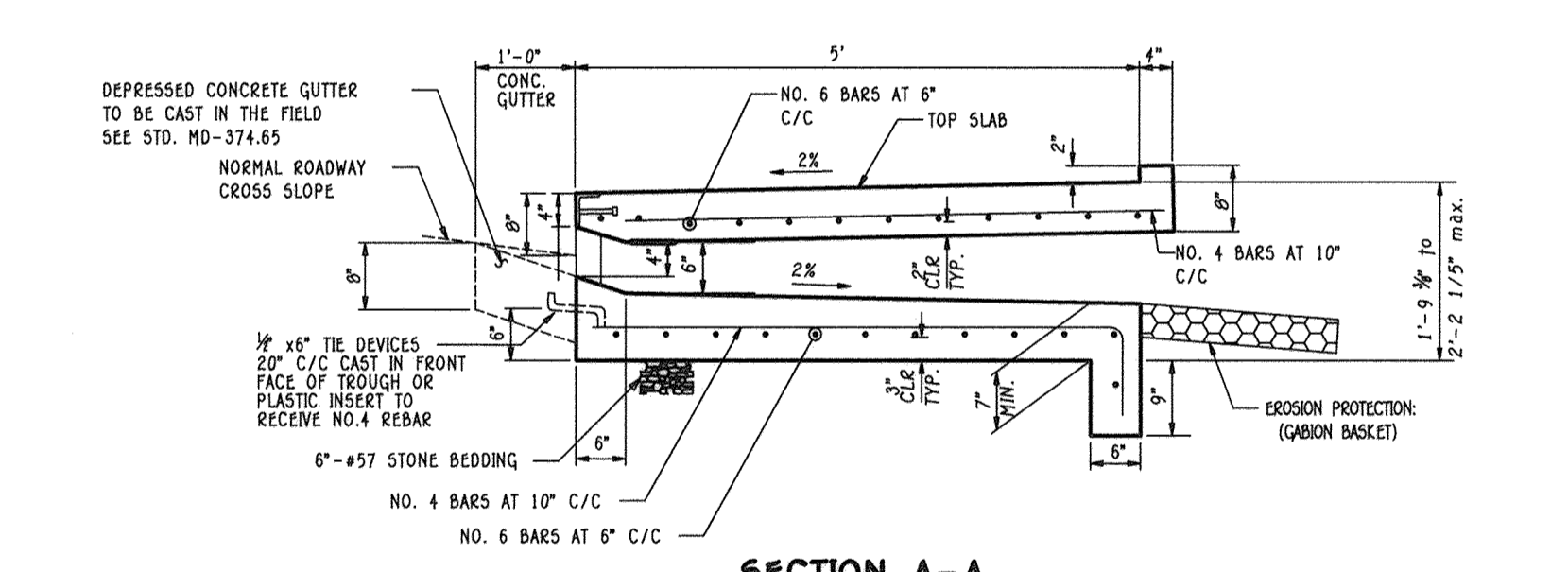
RIP-RAP CHANNEL DESIGN DATA																
STRUCTURE	AREA	WETTED PERIMETER	R	R 2/3	S	S 1/2	W	d	N	V (f.p.a.)	Q (c.f.m.)	RIP-RAP SIZE (D <sub>50</sub> )	BLANKET THICKNESS	LENGTH	PIPE SIZE	
S-1	22.50	6.670	3.36	2.252	0.05	0.0707	6'	0.30'	0.04	3.55	6.60	9.5"	15"	19"	9"	18"
S-2	22.50	6.309	3.57	2.346	0.05	0.0707	6'	0.13'	0.04	2.16	1.81	9.5"	15"	19"	9"	18"

**CONSTRUCTION SPECIFICATIONS FOR RIP-RAP OUTFALLS**

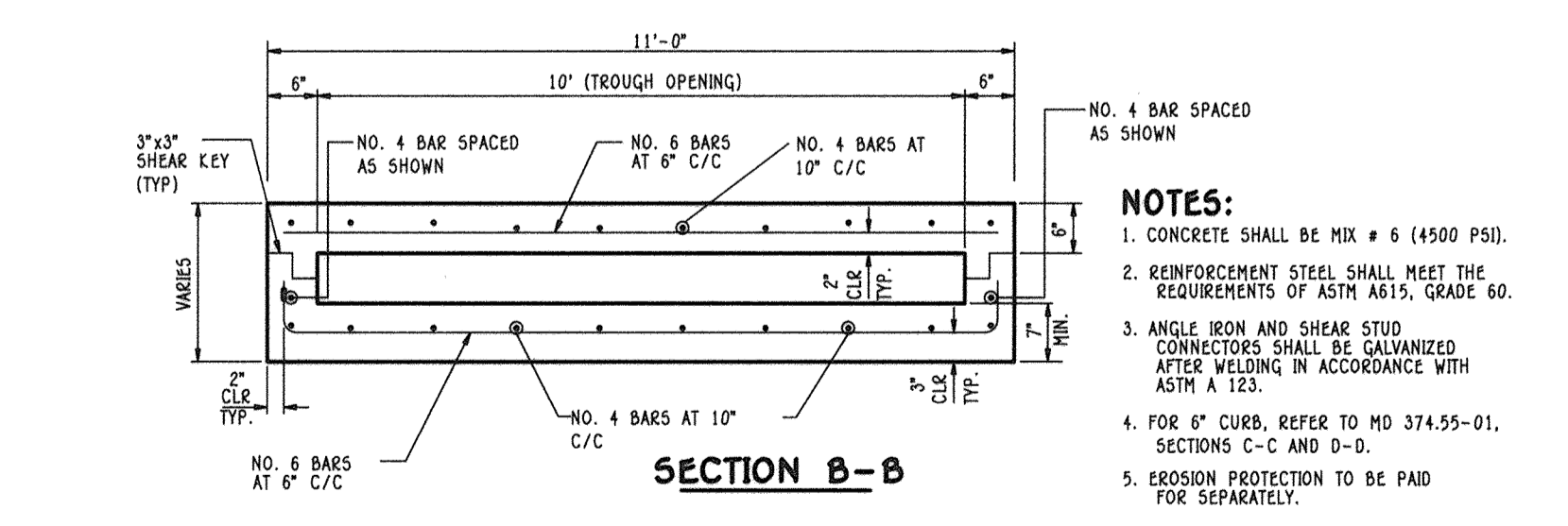
1. The subgrade for the filter, riprap or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
2. The rock or gravel shall conform to the specified grading limits when installed respectively in the riprap or filter.
3. Filter cloth shall be protected from puncturing, cutting or tearing. Any damage after thin an occasional hole shall be repaired by placing another piece of cloth over the damaged part or by completely replacing the cloth. All overlaps whether for repairs or for joining two pieces of cloth shall be a minimum of one foot.
4. Stone for the riprap or gabion outlets may be placed by equipment. Both shall each be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying materials. The stone for riprap or gabion outlets shall be delivered and placed in a manner that will insure that it is reasonably homogeneous with the smaller stones and spalls filling the voids between the larger stones. Riprap shall be placed in a manner to prevent damage to the filter blanket or filter cloth. Hand placement will be required to the extent necessary to prevent damage to the permanent works.



**PRECAST CONCRETE TOP SLAB**



**SECTION A-A**



**SECTION B-B**

**COG/COS OPENING DETAIL (I-B)**

NO SCALE

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	CALIFORNIA BEARING RATIO (CBR)					
		3 TO <5	5 TO <7	>7	3 TO <5	5 TO <7	>7
P-1	PARKING BAYS: RESIDENTIAL AND NON-RESIDENTIAL PARKING DRIVE ASILES: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 2 HEAVY TRUCKS PER DAY	HMA SUPERPAVE FINAL SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL)	1.5	1.5	1.5	1.5	1.5
		HMA SUPERPAVE INTERMEDIATE SURFACE N/A	N/A	N/A	N/A	N/A	N/A
		HMA SUPERPAVE BASE 19.0 MM, PG 64-22, LEVEL 1 (ESAL)	2.0	2.0	2.0	3.5	3.0
P-2	PARKING DRIVE ASILES: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY LOCAL ROADS: ACCESS PLACE, ACCESS STREET CUL-DE-SACS: RESIDENTIAL	GRADED AGGREGATE BASE (GAB)	8.5	7.0	5.0	4.0	4.0
		HMA SUPERPAVE FINAL SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL)	1.5	1.5	1.5	1.5	1.5
		HMA SUPERPAVE INTERMEDIATE SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL)	1.0	1.0	1.0	1.0	1.0
		HMA SUPERPAVE BASE 19.0 MM, PG 64-22, LEVEL 1 (ESAL)	2.0	2.0	2.0	3.5	2.0
		GRADED AGGREGATE BASE (GAB)	8.0	4.0	3.0	4.0	4.0

DETAIL R-2.01

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
CLOUETT CITY, MARYLAND 21042  
(410) 461-2955

AS-BUILT CERTIFICATION FOR PSWM  
Note: There is no "AS-BUILT" information provided in this sheet.

*Michael J. Fisher*  
1000 M. VITUGGI, NO. 107146 Date: 4/16/15

**Owner/Builder**  
Lennar  
10211 Wincopin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

**Developer**  
Lennar  
10211 Wincopin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Victor L. Dool*  
Chief, Division of Land Development Date: 9-22-15

*Michael J. Fisher*  
Chief, Development Engineering Division Date: 7-8-15

*Valerie J. Jaffe*  
Director - Department of Planning and Zoning Date: 9-24-15

SUBDIVISION	OXFORD SQUARE	PARCEL NO.	'C'	LOT NOS.	LOTS 224-241 & CONDO. BLDGS. 1-3
PLAT NO.	23450-23451	BLOCK NO.	---	ZONE	TOD
TAX/ZONE	44	ELEC. DIST.	---	CENSUS TR.	601101

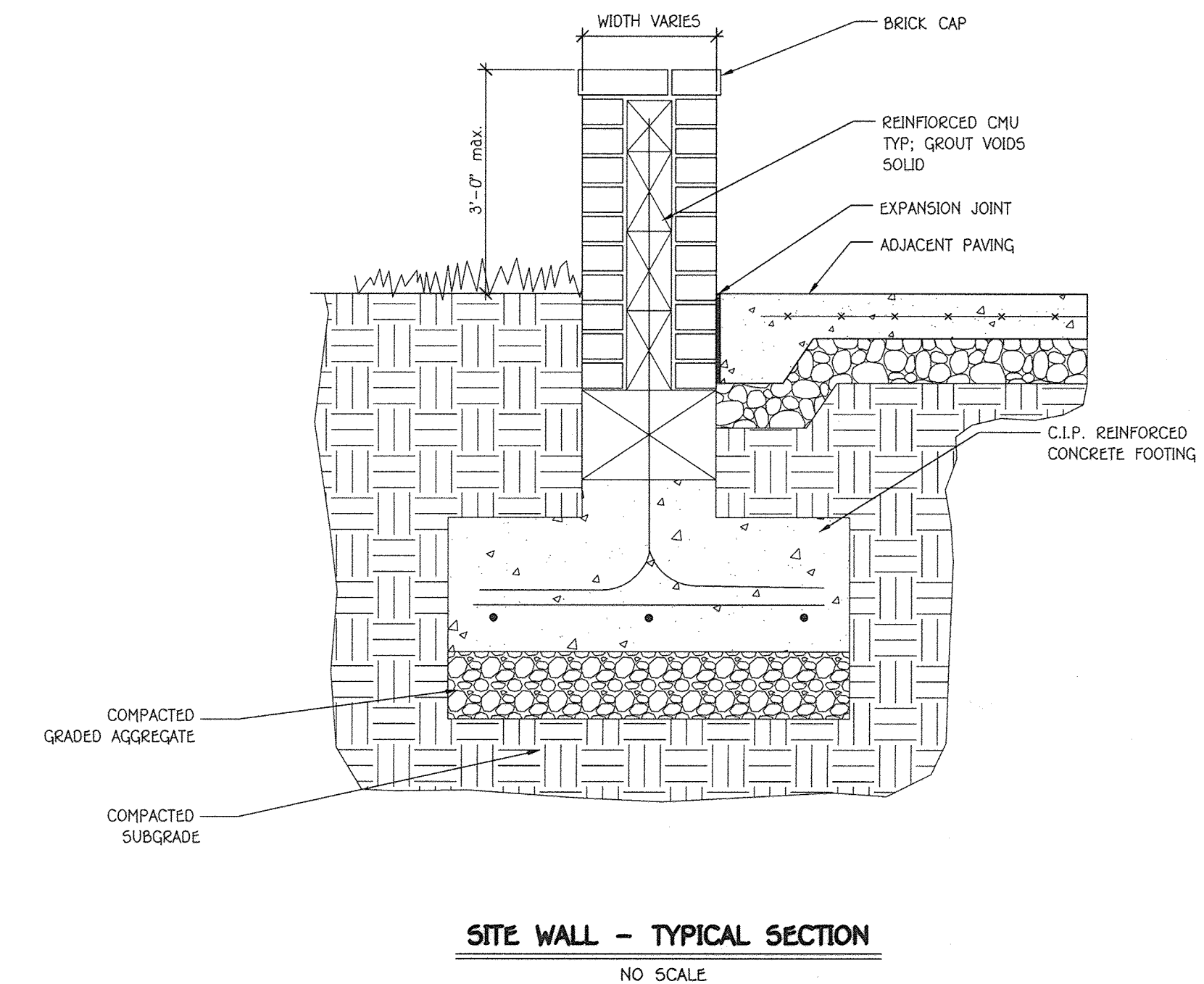
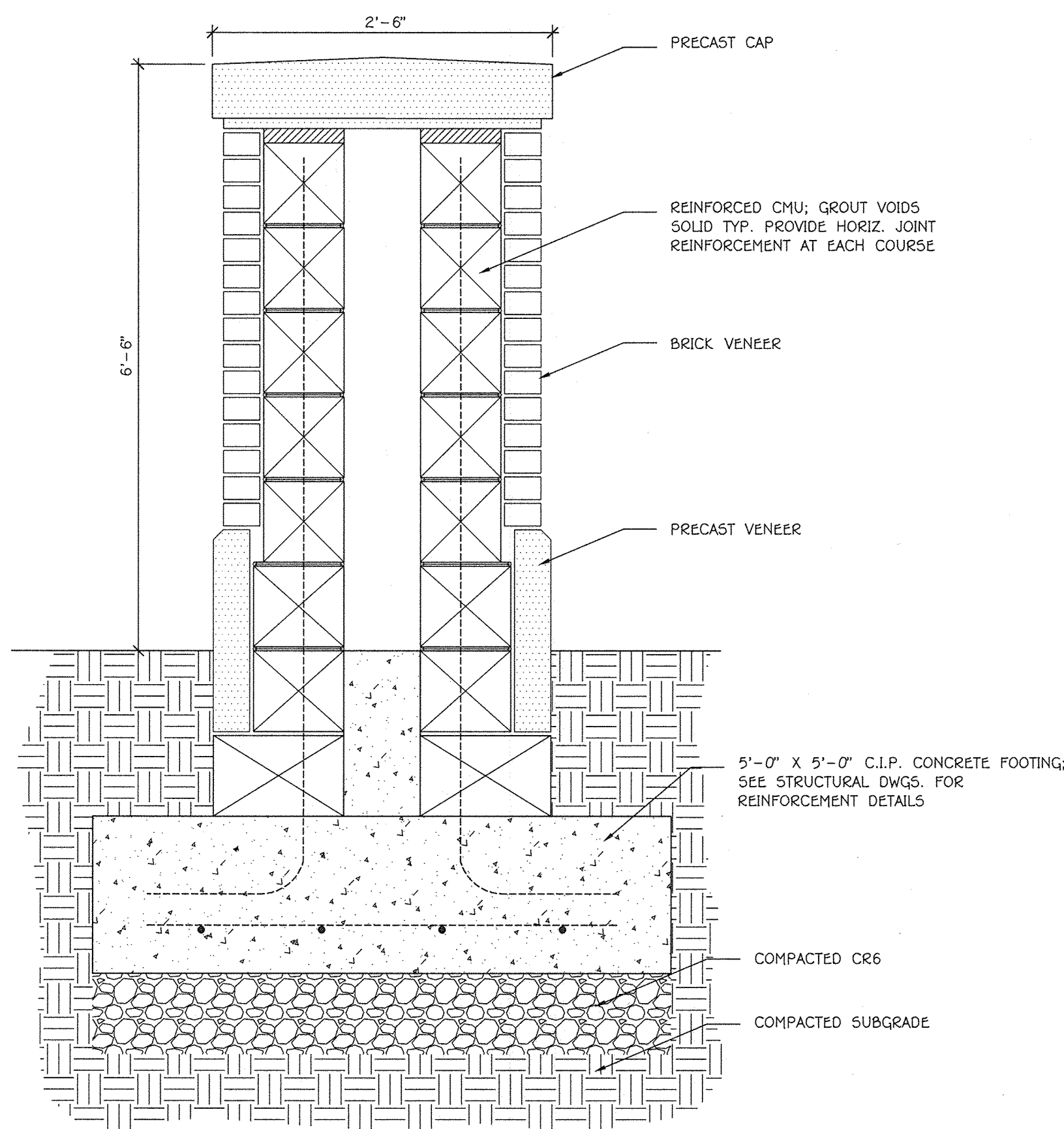
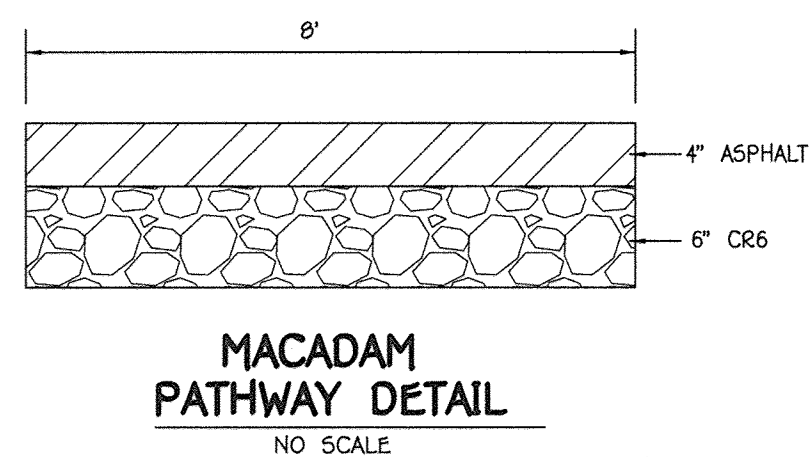
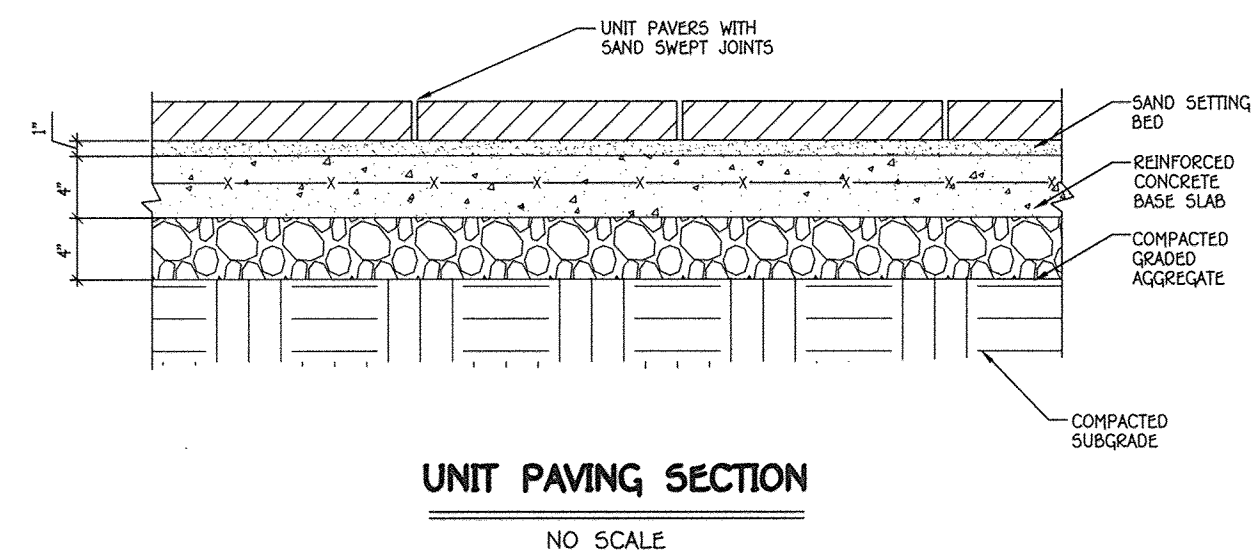
DETAIL SHEET

**OXFORD SQUARE**  
"A Howard County Green Neighborhood"  
Lots 224-241, Open Space Lots 242 & 243  
And Parcel 'U'

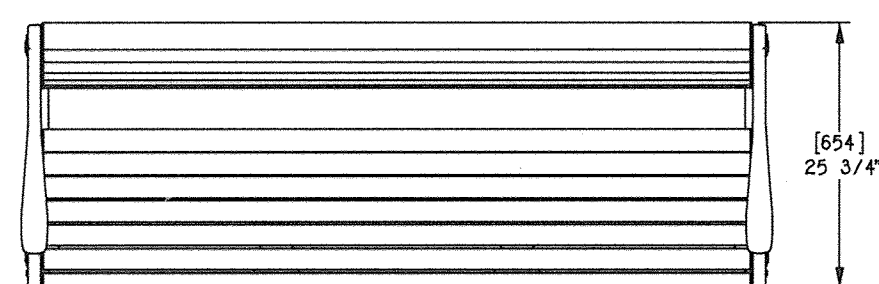
(Being A Resubdivision Of Parcel 'C', As Shown On Plans Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels 'C', 'E', 'F', 'G', 'H', 'I', 'J', 'K' And 'M' And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22856 Thru 22859.)

Zoned: TOD  
Tax Map No.: 3B Grid No.: 20 - Parcel No.: 1003  
First Election District: Howard County, Maryland  
Scale: As Shown  
Date: May 7, 2014  
Sheet 14 Of 20

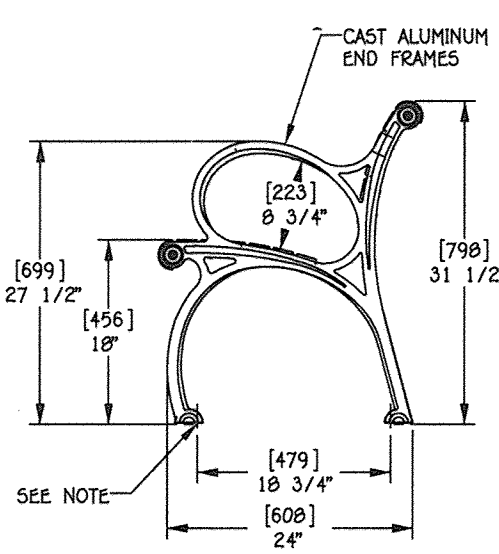
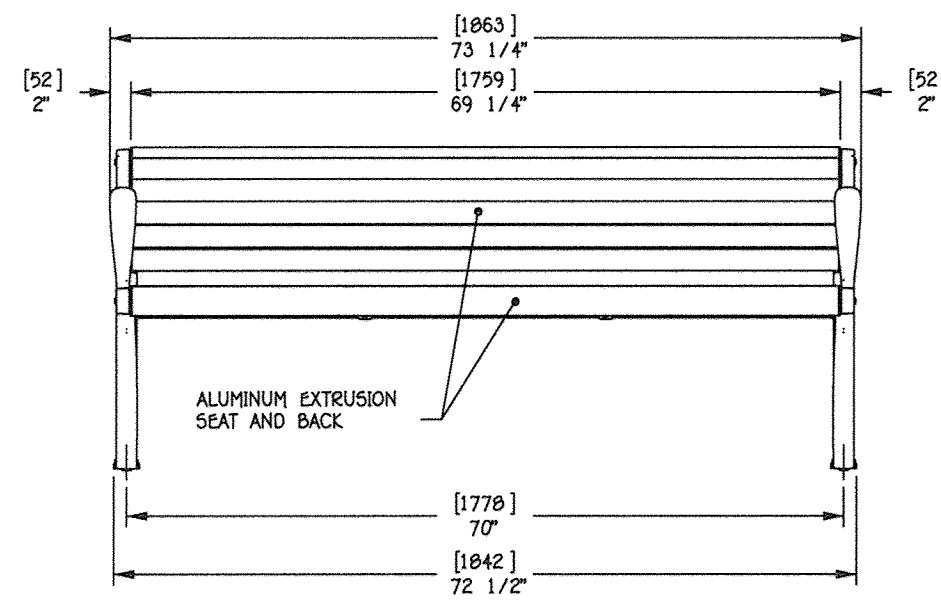
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET



**Plainwell™** Product Drawing **landscapeforms®**  
Bench, 72" Length, with Aluminum Seat, Freestanding / Surface Mount [www.landscapeforms.com](http://www.landscapeforms.com) Ph: 800.521.2546

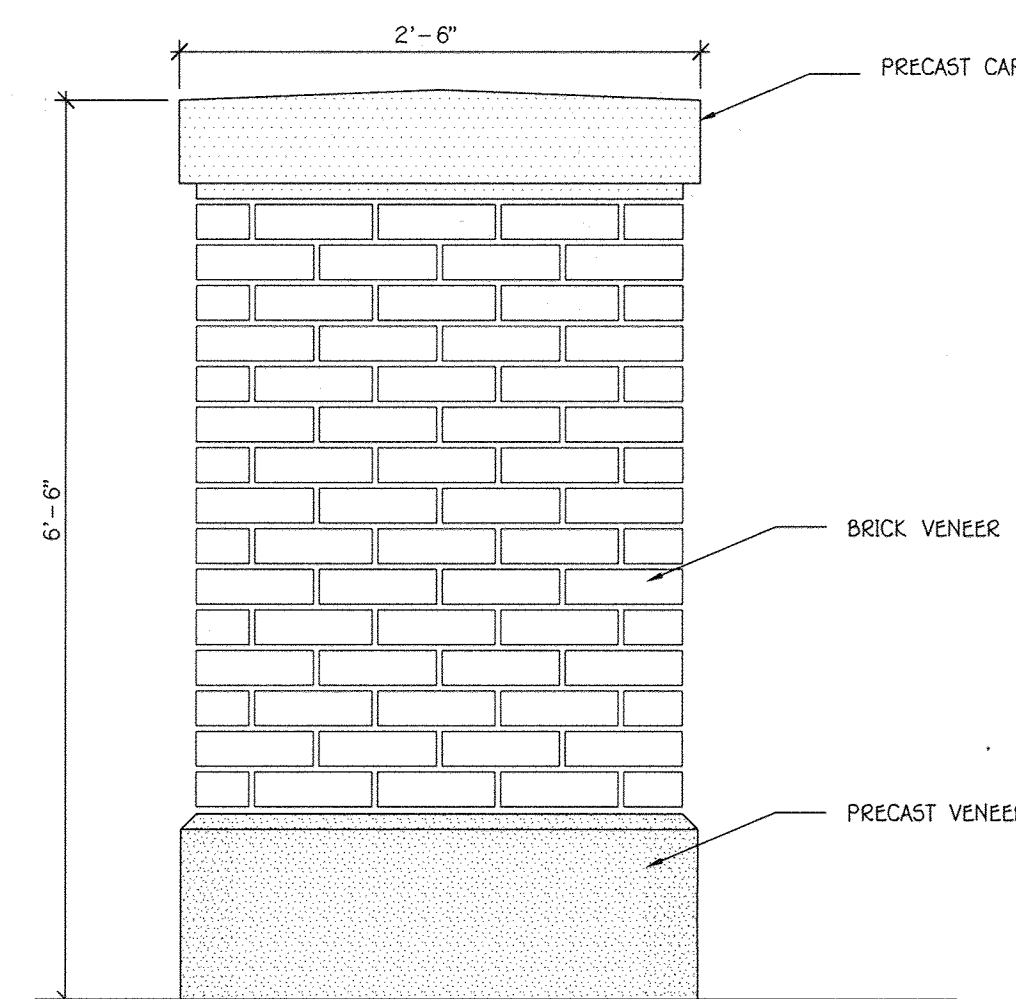
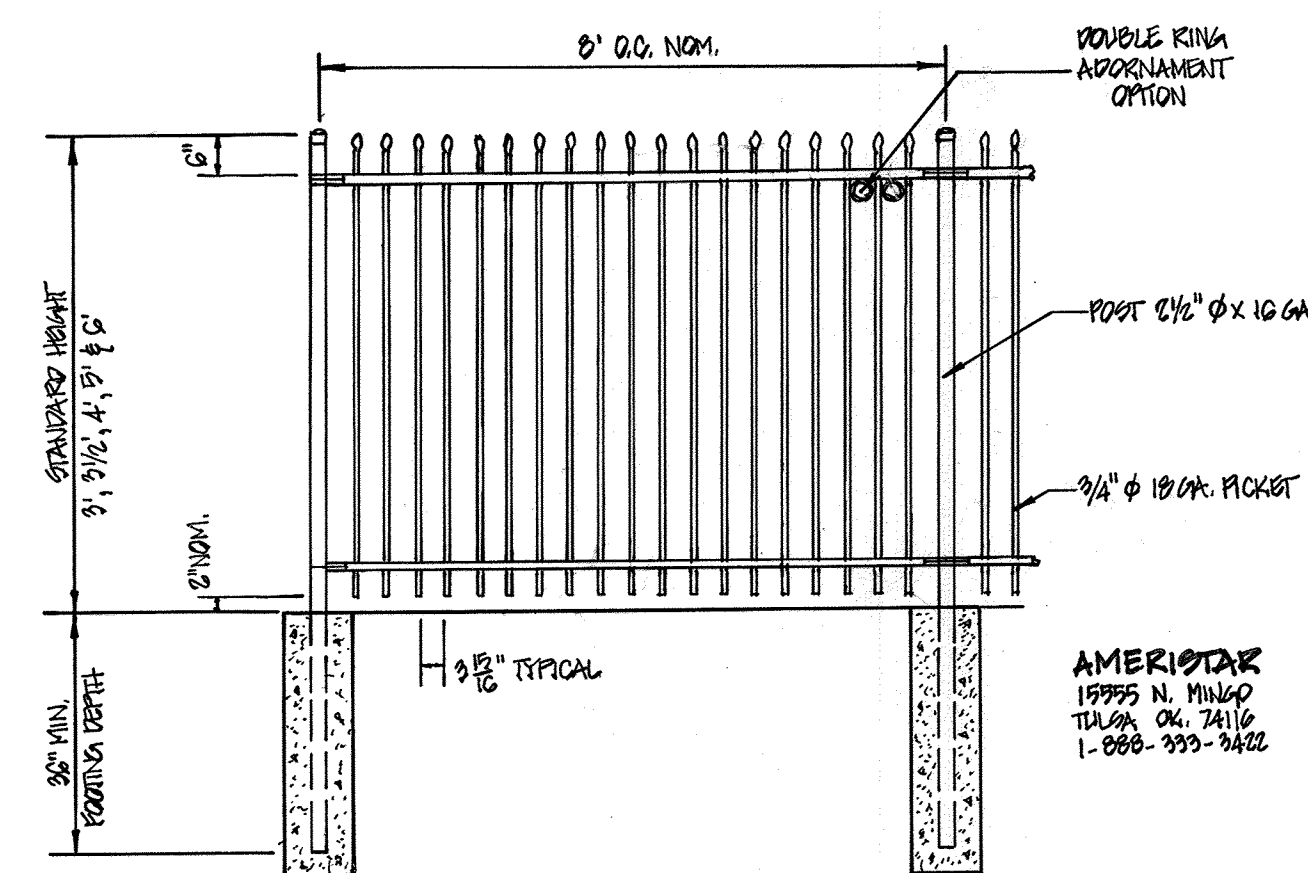


NOTE: FREESTANDING OR SURFACE MOUNT OPTIONS. CORROSION-RESISTANT ANCHORING HARDWARE SUPPLIED BY OTHERS. 813/32\"/>



Drawings: PL271-01 Date: 4/9/2010  
INTENDED USE IS LIMITED TO DESIGN PROFESSIONALS SPECIFYING LANDSCAPE FORMS, INC. PRODUCTS AND THEIR DIRECT CLIENTS. DRAWING IS NOT TO BE COPIED OR DISCLOSED TO OTHERS WITHOUT THE CONSENT OF LANDSCAPE FORMS, INC. ©2010 LANDSCAPE FORMS, INC. ALL RIGHTS RESERVED.

**GARDEN BENCH DETAIL**  
NO SCALE



- WATER MAIN NOTES:**
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE; DR-18.
  2. ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
  3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TIED HIGH DEFLECTION COUPLINGS.
  4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PLACE  
ELLSWORTH CITE, HOWLAND 21042  
(410) 461-2895



AS-BUILT CERTIFICATION FOR P5WM  
Note: There is no "AS BUILT" information provided on this sheet.  
*Aldo M. Vituca* 4/10/19  
ALDO M. VITUCA NO. 10746 Date

**Owner/Builder**  
Lennar  
10211 Wincopin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

**Developer**  
Lennar  
10211 Wincopin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Vest S. D. ...* 9-23-15  
Chief, Division of Land Development Date  
*...* 7-9-15  
Chief, Development Engineering Division Date  
*N...* 9-24-15  
Director - Department of Planning and Zoning Date

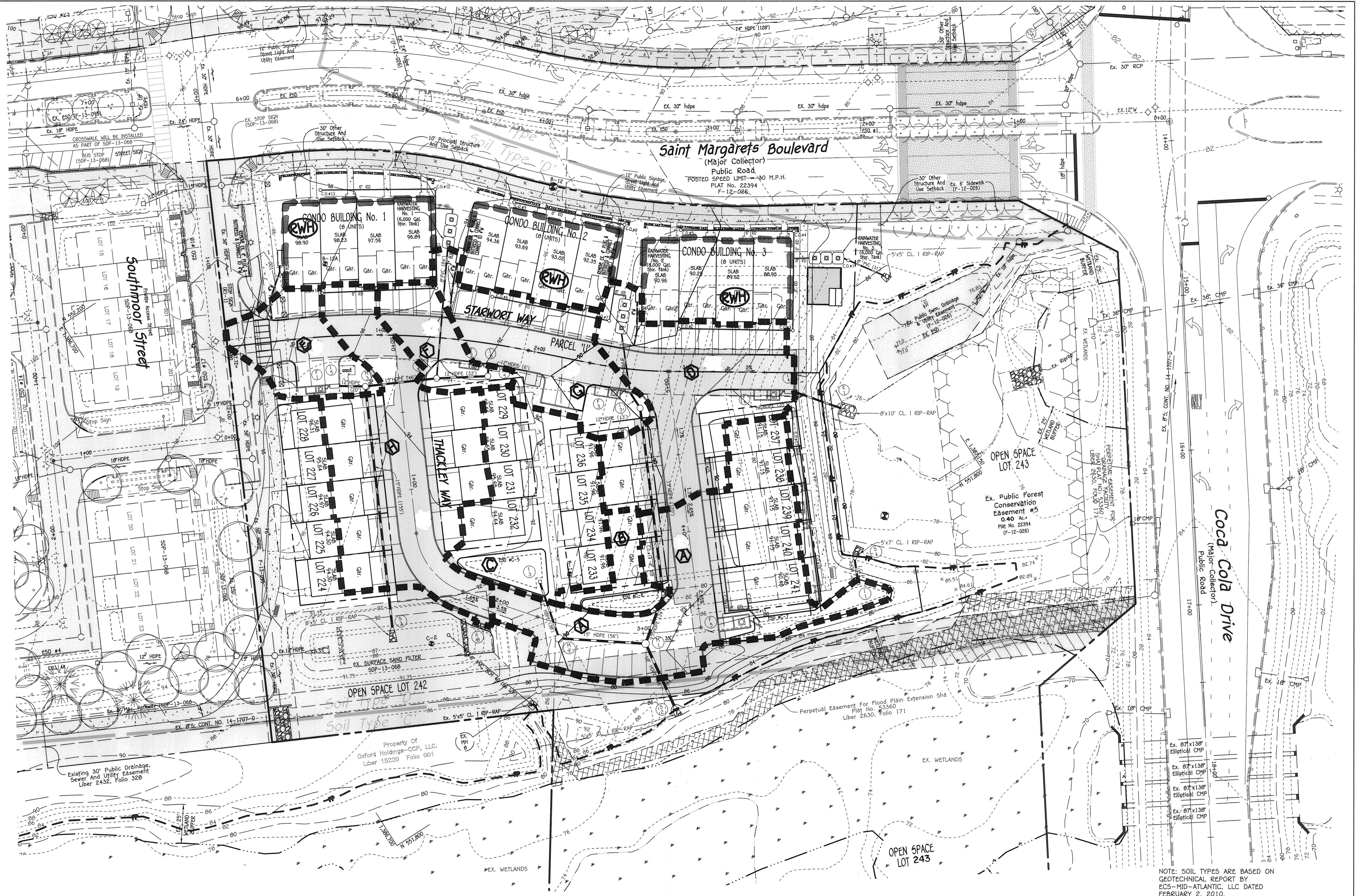
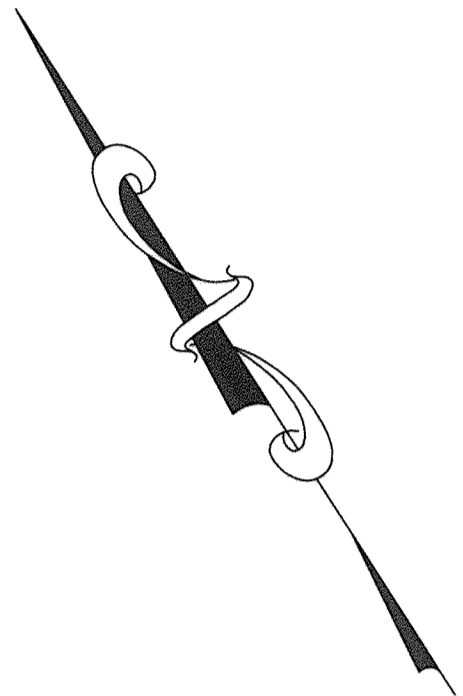
**SITE DETAILS**  
**OXFORD SQUARE**  
"A Howard County Green Neighborhood"  
Lots 224-241, Open Space Lots 242 & 243  
And Parcel 'U'  
(Being A Resubdivision Of Parcel 'C', As Shown On Plats Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels 'C', 'E', 'F', 'G', 'H', 'I', 'J', 'K' And 'M' And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22856 Thru 22858)  
Tax Map No.: 38 Grid No.: 20 Parcel No.: 1003  
First Election District: Howard County, Maryland  
Scale: As Shown  
Date: May 7, 2014  
Sheet 15 Of 20

SUBDIVISION	PARCEL No.	LOT Nos.
OXFORD SQUARE	'C'	LOTS 224-241 & CONDO. BLDGS. 1-3
PLAT NO.	BLOCK NO.	ZONE
23450-23451	---	TOD
TAX/ZONE	ELEC. DIST.	CENSUS TR.
44	1st	601101

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

STRUCTURE NO.	DRAINAGE AREA	AREA	"C"	ZONED	% IMP.
I-1	A	0.34 AC	0.92	TOD	96%
I-2	B	0.05 AC	0.58	TOD	47%
I-3	C	0.23 AC	0.61	TOD	52%
I-4	D	0.31 AC	0.71	TOD	70%
I-5	E	0.17 AC	0.79	TOD	71%
I-6	F	0.34 AC	0.83	TOD	90%
I-7	G	0.07 AC	0.67	TOD	60%
I-8	H	0.10 AC	0.70	TOD	64%

RWH - DENOTES RAINWATER HARVESTING AREA



NOTE: SOIL TYPES ARE BASED ON GEOTECHNICAL REPORT BY ECS-MID-ATLANTIC, LLC DATED FEBRUARY 2, 2010.

NO.	REVISION	DATE



AS-BUILT CERTIFICATION FOR PSWM  
 Note: There is no "AS BUILT" information provided on this sheet.  
 [Signature]  
 ALDO M. VITTORE  
 4/6/19  
 Date

<b>Owner/Builder</b>	<b>Developer</b>
Lennar 10211 Winopin Circle, Suite 180 Columbia, Maryland 21044 Ph: 410-423-0460	Lennar 10211 Winopin Circle, Suite 180 Columbia, Maryland 21044 Ph: 410-423-0460

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature]	9-23-15
Chief, Division of Land Development	Date
[Signature]	7-9-15
Chief, Development Engineering Division	Date
[Signature]	9-24-15
Director - Department of Planning and Zoning	Date

SUBDIVISION	OXFORD SQUARE	PARCEL NO.	'C'	LOT NOS.	LOTS 224-241 & CONDO. BLDGS. 1-3
PLAT NO.	23450-23451	BLOCK NO.	---	ZONE	TOD
TAX/ZONE	44	ELEC. DIST.	1st.	CENSUS TR.	601101

STORM DRAIN DRAINAGE AREA MAP  
**OXFORD SQUARE**  
 "A Howard County Green Neighborhood"  
 Lots 224-241, Open Space Lots 242 & 243  
 And Parcel 'U'  
 (Being A Resubdivision Of Parcel 'C', As Shown On Plats Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels "C", "E", "F", "G", "H", "I", "J", "K" And "M" And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22855 Thru 22859.)  
 Tax Map No.: 3B Zoned: TOD Parcel No.: 1003  
 First Election District: Howard County, Maryland  
 Scale: As Shown  
 Date: May 7, 2014  
 Sheet 16 of 20

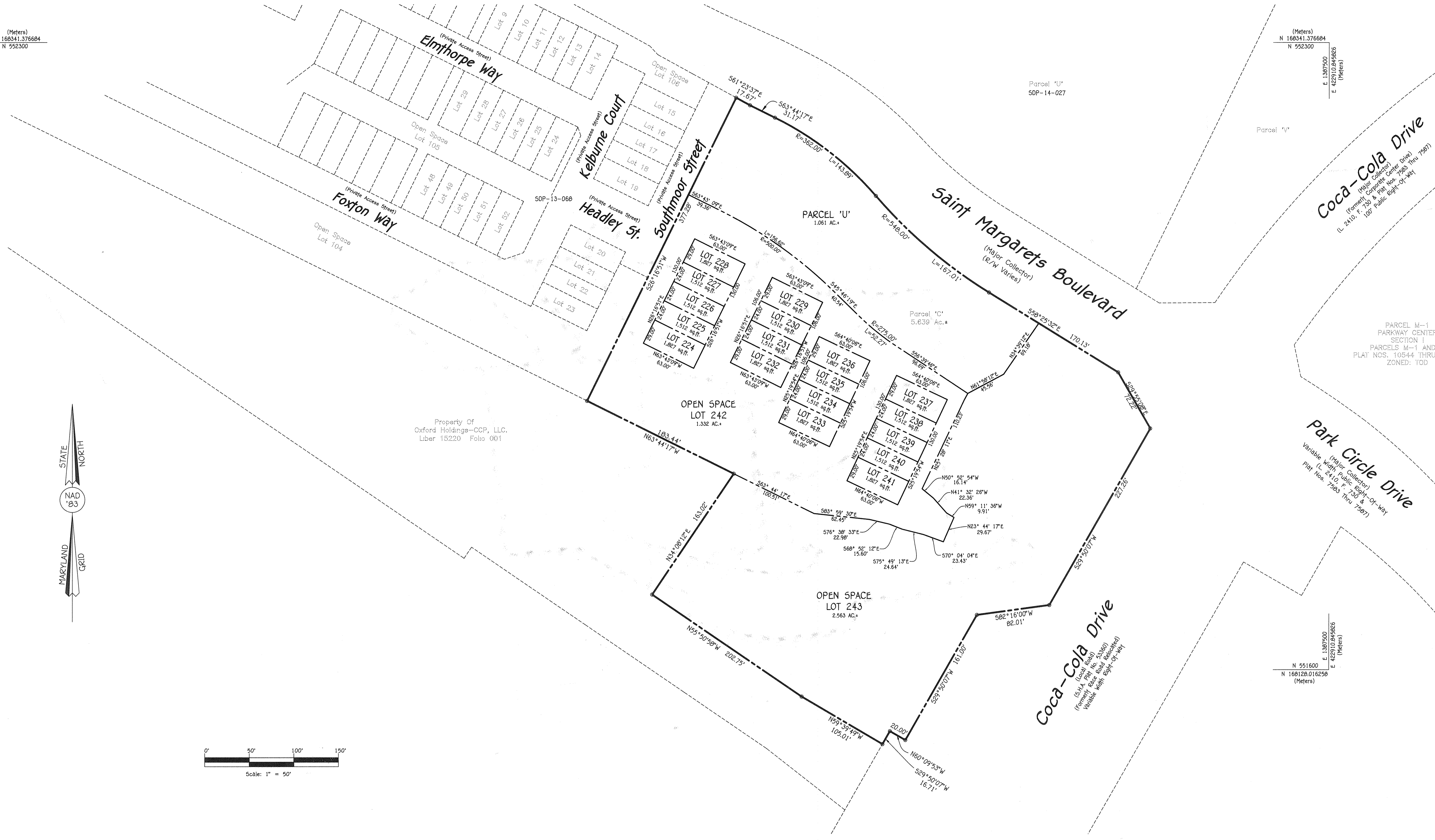
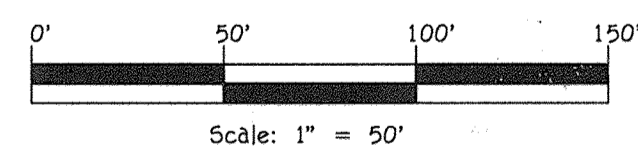
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET



(Meters)  
N 168341.376684  
E 422510.84926  
N 552300  
E 1387500

(Meters)  
N 168341.376684  
E 422510.84926  
N 552300  
E 1387500

(Meters)  
N 168128.016258  
E 422510.84926  
N 551600  
E 1387500



Property Of  
Oxford Holdings-CCP, LLC.  
Liber 13220 Folio 001

Parcel 'U'  
SDP-14-027

PARCEL 'U'  
1.061 AC.±

Parcel 'C'  
5.639 AC.±

OPEN SPACE  
LOT 242  
1.332 AC.±

OPEN SPACE  
LOT 243  
2.563 AC.±

Coca-Cola Drive  
(Major Collector)  
(Formerly Corporate Center Drive)  
(L 241.0 F. 730 & 731  
100' Public Right-Of-Way

Park Circle Drive  
(Major Collector)  
Variable Width Public Right-Of-Way  
Plat Nos. 7265 Thru 7267

PARCEL M-1  
PARKWAY CENTER  
SECTION I  
PARCELS M-1 AND Q  
PLAT NOS. 10544 THRU 10546  
ZONED: TOD

Coca-Cola Drive  
(S.I.A. Local Road)  
(Formerly Race Road)  
Variable Width Right-Of-Way

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2995



AS-BUILT CERTIFICATION FOR PSWM  
Note: There is no "AS-BUILT" information provided by this party.  
*Michael J. Fisher* 4/19/15  
ALSO: M. VITKAL - NO. 46346 Date

**Owner/Builder**  
Lennar  
10211 Wincopin Circle, Suite 180  
Columbia, Maryland 21044  
Ph# 410-423-0460

**Developer**  
Lennar  
10211 Wincopin Circle, Suite 180  
Columbia, Maryland 21044  
Ph# 410-423-0460

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*V. Kestelbach* 9-28-15  
Chief, Division of Land Development Date

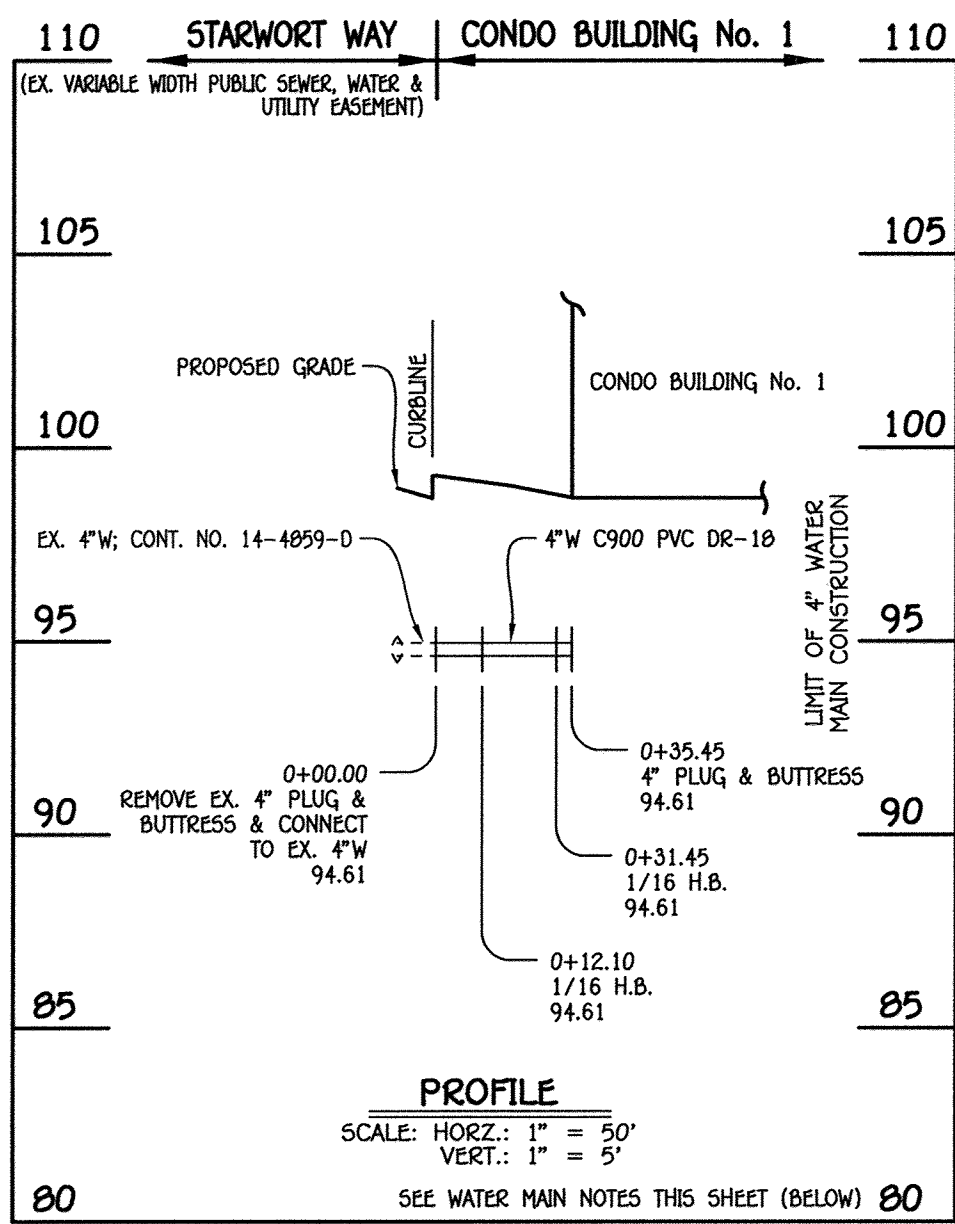
*John E. ...* 7-8-15  
Chief, Development Engineering Division Date

*Valerie ...* 9-24-16  
Director - Department of Planning and Zoning Date

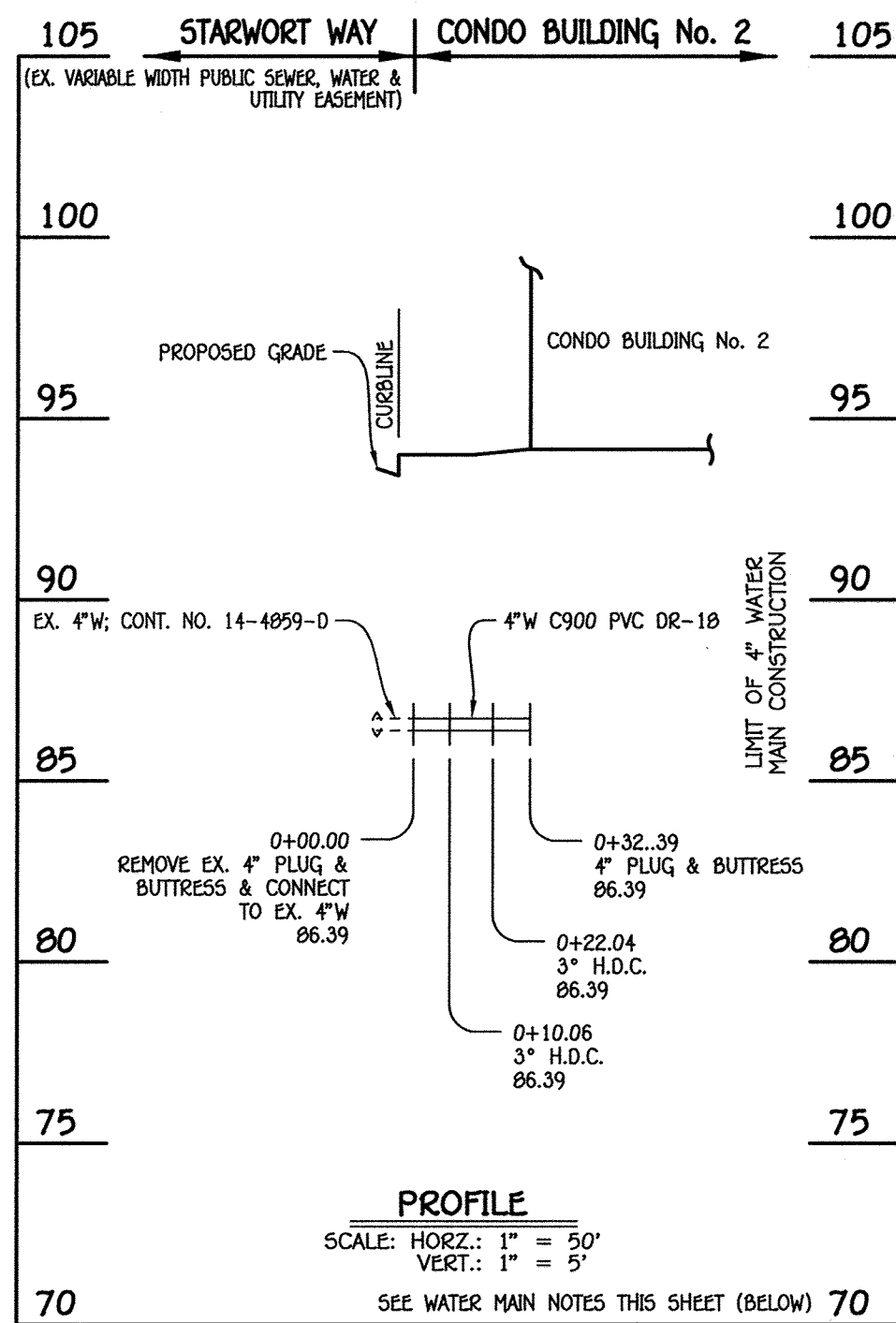
SUBDIVISION	OXFORD SQUARE	PARCEL No.	'C'	LOT Nos.	LOTS 224-241 & CONDO. BLDGS. 1-3
PLAT NO.	23450-23451	BLOCK NO.	---	ZONE	TOD
TAX/ZONE	44	ELEC. DIST.	1st.	CENSUS TR.	601101

METES & BOUNDS  
**OXFORD SQUARE**  
"A Howard County Green Neighborhood"  
Lots 224-241, Open Space Lots 242 & 243  
And Parcel 'U'  
(Being A Resubdivision Of Parcel 'C', As Shown On Plats Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels 'C', 'E', 'F', 'G', 'I', 'J', 'K' And 'M' And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22856 Thru 22859.)  
Zoned: TOD  
Tax Map No.: 38 Grid No.: 20 Parcel No.: 1003  
First Election District: Howard County, Maryland  
Scale: As Shown  
Date: May 7, 2015  
Sheet 17 Of 20

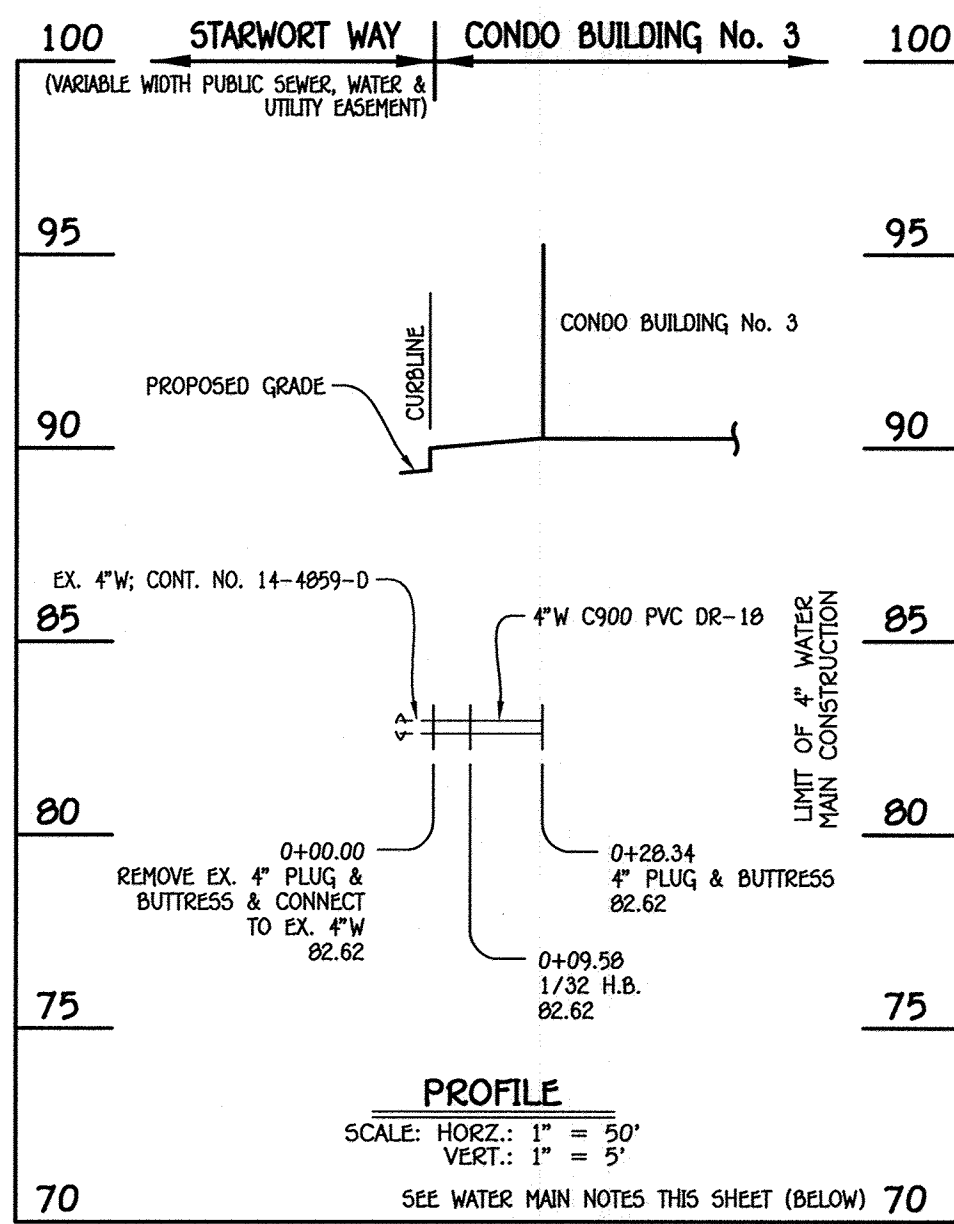
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET



4" WATER MAIN: CONDO BUILDING No. 1



4" WATER MAIN: CONDO BUILDING No. 2



4" WATER MAIN: CONDO BUILDING No. 3

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
4" WATER MAIN: CONDO BUILDING No. 1			
0+00.00	EX. 4" PLUG & BUTTRESS	552129.47	1386815.60
0+12.10	1/16 H.B.	552140.31	1386820.95
0+31.45	1/16 H.B.	552152.19	1386836.24
0+35.45	4" PLUG & BUTTRESS	552155.61	1386836.32

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
4" WATER MAIN: CONDO BUILDING No. 2			
0+00.00	EX. 4" PLUG & BUTTRESS	552070.37	1386914.80
0+10.06	3" H.D.C.	552078.33	1386920.95
0+22.04	3" H.D.C.	552087.38	1386928.80
0+32.39	4" PLUG & BUTTRESS	552094.80	1386936.02

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
4" WATER MAIN: CONDO BUILDING No. 3			
0+00.00	EX. 4" PLUG & BUTTRESS	551988.09	1387003.48
0+09.58	1/32 H.B.	551994.95	1387010.16
0+28.34	4" PLUG & BUTTRESS	552010.63	1387020.47

- WATER MAIN NOTES:**
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE; DR-18.
  2. ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
  3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEED PVC HIGH DEFLECTION COUPLINGS.
  4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 OXFORD SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461 - 2995



AS-BUILT CERTIFICATION FOR PSWM  
 Note: There is no "AS-BUILT" information provided on this sheet.  
 Michael J. Fisher  
 ALVO M. VITKCAI NO. 80748  
 Date: 4/8/19

**Owner/Builder**  
 Lennar  
 10211 Winopin Circle, Suite 180  
 Columbia, Maryland 21044  
 Ph# 410-423-0460

**Developer**  
 Lennar  
 10211 Winopin Circle, Suite 180  
 Columbia, Maryland 21044  
 Ph# 410-423-0460

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Keith Schumacher*  
 Chief, Division of Land Development  
 Date: 9-23-15

*Michael J. Fisher*  
 Chief, Development Engineering Division  
 Date: 7-8-15

*Valerie J. Kelly*  
 Director - Department of Planning and Zoning  
 Date: 9-24-15

SUBDIVISION	PARCEL No.	LOT Nos.
OXFORD SQUARE	'C'	LOTS 224-241 & CONDO. BLDGS. 1-3
PLAT NO.	BLOCK NO.	ZONE
23450-23451	---	TOD
TAX/ZONE	ELEC. DIST.	CENSUS TR.
44	1st	601101

**WATER MAIN EXTENSIONS  
 PROFILES, CHARTS & NOTES  
 OXFORD SQUARE**  
 "A Howard County Green Neighborhood"  
 Lots 224-241, Open Space Lots 242 & 243  
 And Parcel 'U'

(Being A Resubdivision Of Parcel 'C', As Shown On Plats Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels 'C', 'E', 'F', 'G', 'H', 'J', 'K' And 'M' And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22856 Thru 22859)

Zone: TOD  
 Tax Map No.: 38 Grid No.: 20 Parcel No.: 1003  
 First Election District: Howard County, Maryland  
 Scale: As Shown  
 Date: May 7, 2015  
 Sheet 18 Of 20

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

**GREEN NEIGHBORHOOD CHECKLIST:**

Credit No.	Credit	Champion (Name, Role)	Requirement	Site Development Plan GN Strategies	Documentation Location	...	.....
<b>A Innovative / Integrated Design Processes</b>							
A-1	Green Development Plan	HCM/Planners	Show 5 how plans meet criteria, includes checklist, natural resource inventory and energy analysis	Provide documentation	GN Report GN Plan	4	4
A-2	Interdisciplinary Project Team	HCM/Planner	Includes U.S. Green Building Council Leadership in Energy and Environmental Design (LEED) Accredited professional, ecologist / environmental professional / landscape architect, and engineer	The design team includes a LEED AP professional, an ecologist, a civil engineer, an architect and landscape architect.	GN Plan	4	4
A-3	Third Party Certification	HCM/Planner	Certification of credits by independent LEED accredited professional	Alexander Design Studio	GN Plan	4	4
A-4a	Innovative Design A	HCM/Planners	Green Streets	Green Streets	GN Report SDR (SDP-14-071) Sheet 3, 14 Reference: Sketch Plan (S-14-001)	1	1
A-4b	Innovative Design B	HCM/Planners	Priority Parking for Fuel Efficient Cars	Reserve 5% for Priority Parking for Fuel Efficient Cars	GN Report SDR (SDP-14-071) Sheet 3, 14 Reference: Sketch Plan (S-14-001)	1	1
A-4c	Innovative Design C	HCM/Planners	Compact Development	Residential Development w/ it exceed 20 DU/AC	GN Report GN Plan Reference: Sketch Plan (S-14-001)	1	1
A-4d	Innovative Design D	HCM/Planners	Walkable Streets	More than 60% building frontage oriented low ards public spaces; Less than 20% service and garage openings to public spaces.	GN Plan GN Report Reference: Sketch Plan (S-14-001)	1	1
<b>B Location, Linkages &amp; Community Context</b>							
B-1a	Redevelopment Site	HCM/Planners	Reuse of previously developed site (minimum 20% existing impervious, with sloping scale for credits based on amount of % impervious)	More than 25% area previously developed (former sand and gravel operation).	GN Plan Reference: Sketch Plan (S-14-001)	4	2
B-1b	Redevelopment Site (Brown fields)	N/A	Grow in field cleanup of redevelopment site	N/A	N/A	8	0
B-2	Historic Buildings	N/A	Preserve, restore or rehabilitate historic properties	N/A	N/A	4	0
B-3a	Transit Access & Amenities for Reduced Auto Dependence (Stop)	HCM/Planners	Site is served by transit stop within 1/2 mile (1 point) or 1/4 mile (2 points) w/ walk from property	Private Shuttle Service with 2 stops (100% DU) within 1/4 mile walking distance)	GN Plan Reference: Sketch Plan (S-14-001) and F Plan (F-13-095)	2	2
B-3b	Transit Access & Amenities for Reduced Auto Dependence (Shelter)	HCM/Planners	Provide county-specified transit shelter with benches and lighting at transit stop within 1/2 mile of property and provided pedestrian link to stop if none currently exists	Provide H&C transit approved shelter for private shuttle service	Reference: Sketch Plan (S-14-001) SDR (SDP-13-068)	4	4
B-4	Proximity to Community Resources	N/A	Credit for 1/2 mile proximity to existing or proposed community resources such as schools, parks, library, post office, etc.	N/A	N/A	5	0
<b>C Compact, Complete &amp; Connected Development</b>							
C-1	Diversity of Uses	HCM/Planners	1 point per different landuse; minimum 100 SF for non-residential per DU. Minimum of 145,000 SF each of office, institution and civic use, per 1,400 DU.	Provide 3 Uses: Institutional, Civic and Office	GN Plan Reference: Sketch Plan (S-14-001) SDR (SDP-12-075)	3	3
C-2	Planned Service Area	HCM/Planners	Locate the project within the Planned Service Area	The project is within the Planned Service Area	GN Plan	5	5
C-3a	Pedestrian System (Path)	HCM/Planners	Provide an off-site path w/ trail system with 2 connections to internal or external sidewalk, with minimal environmental impacts, long-term maintenance	Provide a shared use path system	GN Plan GN Report SDR (SDP-14-071) Sheet 3, 4 Reference: Sketch Plan (S-14-001) SDR (SDP-13-068) SDR (SDP-14-019) SDR (SDP-12-075)	2	2
C-3b	Pedestrian System (Connections)	N/A	Provide an off-site path w/ trail connection	N/A	N/A	2	0
C-3c	Pedestrian System (Amenities)	HCM/Planners	Provide at least 10 different pedestrian experience features	Provide pedestrian amenities at trainheads, the law n, school and residential mva s	GN Plan SDR (SDP-14-071) Sheet 11 Reference: Sketch Plan (S-14-001)	2	2
C-4	Connected On-site Street Network	HCM/Planners	Provide a gridded street network	More than 75% connected streets	GN Plan Reference: Sketch Plan (S-14-001)	2	2
C-5	Parking does not exceed Required Minimum	HCM/Planners	Surface parking lots do not exceed required parking ratios (1 point); plan takes advantage of shared parking provisions; parking structure provided in deck or beneath building, does not include garages w/ in individual units (1 point)	Provide common parking structures (4 points)	GN Plan Reference: Sketch Plan (S-14-001)	4	4
C-6	Exceed Minimum Open Space Requirements	HCM/Planners	1 point for every 5% above required minimum open space for the TOD zone. 1 point for every 10% of non-habitable H&C parcels above 50% of the site (up to 3 points).	Provide more than 25% increase in amenity space above the required minimum amenity space (TOD zoning regulations)	GN Plan SDR (SDP-14-071) Sheets 3, 19 Reference: Sketch Plan (S-14-001)	5	5
C-7	Green Spaces and Amenity Areas	HCM/Planners	Open space along public/private roads available for public use	Publicly accessible open space w/ it be provided at the nature trail and clubhouse and pool.	GN Plan Reference: Sketch Plan (S-14-001) SDR (SDP-13-068)	2	2

D Environmental Preservation	E Site Landscape Improvements
D-1 Stream Restoration or Wetland Creation or Restoration	E-1 Landscaping exceeds Minimum Requirements and Reduces Heat Island Effect
D-2 Habitat Management Plan	E-2 Native Plants
D-3 25% Slope Preservation	E-3 No Invasive Plants
D-4 15% Slope Preservation	E-4 Limit Turf
D-5 Minimize Grading and Site Disturbance	
D-6 Exceed Minimum Forest Conservation Requirements	
D-7 Save Trees above 10' Minimum Canopy	
D-8 Exceed Minimum Stream Buffer Requirements	
D-9 Exceed Minimum Wetland Buffer Requirements	
D-10 Floodplain Buffer	

F Water Conservation / Efficiency / Management	G Energy Efficiency	H Materials Beneficial to the Environment / Waste Management
F-1 Rainwater Harvesting System	G-1 Light Pollution Reduction	H-1 Environmentally Preferable Site Products
F-2 Water-Permeable Walkways	G-2 Solar Orientation	H-2 Reduce Heat Island Effect of Paving
F-3 Low Impact Development (LID) Stormwater Treatment	G-3 Infrastructure Energy Efficiency	H-3 Site Construction Waste Management
F-3b Low Impact Development (LID) Stormwater Treatment		H-4 Regionally Produced Materials
<b>I Operations and Maintenance Education</b>		
I-1 H&C Documents	I-2 Maintenance Manual for Owner / H&C / Manager	I-3 Public Awareness of Sustainable Community

**Third Party Certification**

By affixing my signature below, the undersigned does hereby declare and affirm to Howard County that the targeted Green Neighborhood Site credits and point total, as specified in the Green Neighborhood Site Compliance Checklist, are reasonable and achievable.

Signature: [Signature] Title: President No: 10439208 Date: 6-16-15

Name: Charles Alexander Organization: Alexander Design Studio

Submission (mark "X" where applicable): SDP (SDP-14-071)

APPROVED  
HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
GREEN NEIGHBORHOOD PLAN FOR SITES

[Signature] 9-14-15  
DATE

LEED ACCREDITED PROFESSIONAL CERTIFICATE  
GREEN NEIGHBORHOOD PLAN FOR SITES

I hereby certify that this plan represents a practical and workable plan for achieving the targeted credits and point total shown on the Green Neighborhood for Sites Compliance Checklist.

[Signature] 10007912 6-16-15  
DATE

MATTHEW J FITZSIMMONS, LEED AP LEED ACCREDITATION NUMBER

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
GLOTTET CITY, MARYLAND 21044  
(410) 461-2895

NO. REVISION DATE

**AS-BUILT CERTIFICATION FOR PSWM**

Note: There is no "AS BUILT" information provided by the contractor.

[Signature] 6/15/15  
Date

[Signature] 6/15/15  
Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 9-23-15  
Date

[Signature] 7-9-15  
Date

[Signature] 9-24-15  
Date

Owner/Builder: Lenbar  
10211 Wincofin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

Developer: Lenbar  
10211 Wincofin Circle, Suite 180  
Columbia, Maryland 21044  
Ph: 410-423-0460

SUBDIVISION: OXFORD SQUARE  
PARCEL NO.: 'C'  
LOT NOS.: LOTS 224-241 & CONDO. BLDGS. 1-3  
PLAT NO.: 23450-23451  
BLOCK NO.: ---  
ZONE: TOD  
TAX/ZONE: 44  
ELEC. DIST.: 1st.  
CENSUS TR.: 601101

**GREEN NEIGHBORHOOD PLAN**  
**OXFORD SQUARE**  
"A Howard County Green Neighborhood"  
Lots 224-241, Open Space Lots 242 & 243  
And Parcel 'U'

(Being A Resubdivision Of Parcel 'C', As Shown On Plats Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels 'C', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L' And 'M' And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22856, Thru 22859.)

Zone: TOD  
Tax Map No.: 38 Grid No.: 20 Parcel No.: 1003  
First Election District: Howard County, Maryland  
Scale: As Shown  
Date: May 7, 2015  
Sheet 19 Of 20

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

**GREEN NEIGHBORHOOD NOTES:**

- A-2 THE DESIGN AND DEVELOPMENT TEAM INCLUDES A LEED AP (MATTHEW FITZSIMMONS-HORD COPLAN MACHT), ENVIRONMENTAL PROFESSIONAL (JOHN CANOLES- ECO SCIENCE PROFESSIONALS, INC.), LANDSCAPE ARCHITECT (JOSH KILRAIN- HORD COPLAN MACHT) AND AN ENGINEER (ALDO VITUCCI PE- FISHER COLLINS & CARTER)
- A-3 THE THIRD PARTY CERTIFICATION IS PROVIDED BY CHARLES ALEXANDER, LEED-AP OF ALEXANDER DESIGN STUDIOS.
- B-1a THE 111.1 ACRE DEVELOPMENT CONSISTS OF 28.4 ACRES OF PREVIOUSLY DEVELOPED LAND (25.6% OF THE OXFORD SQUARE DEVELOPMENT).
- B-3a OXFORD SQUARE WILL PROVIDE TWO TRANSIT STOPS FOR THE PROPOSED PRIVATE SHUTTLE SERVICE CONNECTING OXFORD SQUARE TO THE DORSEY MARC COMMUTER RAIL STATION. THE STOPS WILL BE WITHIN 1/4 WALKING DISTANCE TO ALL DWELLING UNITS.
- B-3b OXFORD SQUARE WILL PROVIDE ONE SHELTER AT ONE OF THE PRIVATE SHUTTLE STOPS. THE SHELTER WILL COMPLY WITH COUNTY -APPROVED CRITERIA INCLUDING BENCHES AND LIGHTING.
- C-1 OXFORD SQUARE WILL PROVIDE THREE DIVERSE USES OTHER THAN RESIDENTIAL: INSTITUTIONAL (MIDDLE SCHOOL BUILDING AND OUTDOOR CLASSROOM SPACE, ELEMENTARY SCHOOL), CIVIC (SCHOOL'S RECREATIONAL PLAYING FIELDS AND SHARED-USE PATH) AND OFFICE.
- C-2 OXFORD SQUARE IS LOCATED WITHIN THE EXISTING PLANNED WATER AND SEWER SERVICE AREA.
- C-3c OXFORD SQUARE WILL PROVIDE A MINIMUM OF TWO PEDESTRIAN SYSTEM AMENITY EXPERIENCES: 1) SHARED USE PATH AND NATURE TRAIL (TRAIL SIGNS AND MARKERS, BENCHES, LITTER RECEPTACLES, INFORMATIONAL SIGNS, BIKE RACKS), 2) THE LAWN (BENCHES, EXTERIOR LIGHTING, SHADE TREES, INFORMATIONAL SIGNS), 3) RESIDENTIAL COURTYARDS AND MEWS (BENCHES), AND 4) SCHOOL SITES (PLAYING FIELDS, BENCHES, BIKE RACKS)
- D-8b OXFORD SQUARE WILL PROVIDE A MINIMUM 75 FT ENHANCED STREAM BUFFER.
- E-3 OXFORD SQUARE WILL NOT PLANT INVASIVE PLANTS.
- E-4 OXFORD SQUARE WILL NOT PLANT TURF IN DENSELY SHADED AREAS.
- F-3b OXFORD SQUARE WILL PROVIDE AT LEAST 51% WATER QUALITY VOLUME STORED AND INFILTRATED/RE-USED ON-SITE.

**GREEN NEIGHBORHOOD CALCULATIONS & TABLES:**

**A-4b Priority Parking for Low-Emitting and Fuel Efficient Vehicles**

Total Number of Off-Street Parking Spaces:	18 Spaces
Total Number of Proposed Preferred Parking Spaces:	1 Space
Percent of Preferred Parking Spaces:	5.6%

**A-4c Compact Development**

	Complete Build-Out	SDP
Total Dwelling Units:	1,489 DU	42 DU
Residential Land Area:	42.1 AC	3.25 AC
Residential Density:	35.37 DU/AC	12.92 DU/AC

Note: This SDP expanded the Residential Land Area by 3.05 Acres. In comparison to Sketch Plan (S-14-001), this increase in Residential Land Area does not expand the limits of disturbance on Parcel 'C'. This SDP reduced the quantity of units by 3 DU since Sketch Plan (S-14-001).

**A-4d Walkable Streets**

	Complete Build-Out	SDP
Length of Building Frontage Oriented Towards the Public Space:	13,021 FT	720 FT
Total Length of Building Frontage:	12,276 FT	720 FT
% of Building Frontage Oriented Towards the Public Space:	89.8%	100.0%

	Complete Build-Out	SDP
Length of Building Frontage with Service or Garage Openings:	754 FT	- FT
Length of Building Frontage Oriented Towards Public Space (Including Service and Garage Openings):	11,775 FT	720 FT
% of Building Frontage with Service or Garage Openings:	6.8%	0.0%

Note: In comparison to the Sketch Plan (S-14-001) this SDP provides 390 additional feet to the length of building frontage oriented towards the public space, total length of building frontage and length of building frontage oriented towards the public space (including service and garage openings) on Parcel 'C'.

**B-1a Redevelopment Site**

Gross Site Area (Parcel C):	111.1 Acres
Area of Existing Development (Acres):	28.4 Acres
Percent of Previously Developed:	25.6%

**B-3a Transit Access & Amenities for Reduced Auto Dependence (Stop)**

	Total Number of Qualifying Units	Percent of all Units
Residential Buildings within 1/4 Mile (c. 1,320 FT)	1,489 DU	100%
All Buildings:	1,489 DU	100%

**C-1 Diversity of Uses**

Residential Uses	Number of Units	Percent of Total Units
Apartments & Townhouses	1,489 DU	100%
Nonresidential Uses	Area	SF per Dwelling Unit
Office:	154,000 SF	108 SF/DU
Institutional:	95,747 SF	
Middle School	2,500 SF	
Middle School Outdoor Classroom Space	101,014 SF	
Elementary School		
Institutional Subtotal:	199,261 SF	134 SF/DU
Civic:	236,139 SF	
Recreational Playing Fields (School Site)	19,504 SF	
Northern Loop Shared-Use Path (8 FT wide)	8,016 SF	
Southern Loop Shared-Use Path (8 FT wide)	263,659 SF	177 SF/DU
Civic Subtotal:		

Note: <sup>1</sup> Revised per the approved Middle School SDP (SDP-12-079)  
<sup>2</sup> 13,802 SF of Shared-Use Path will be constructed on Middle School site (SDP-12-079)  
<sup>3</sup> This SDP provides 224 SF of the southern shared use path.

**C-3a Pedestrian System (Paths and Trails)**

Northern Shared Use Path:	Width of Path: 8 FT Length: 2,438 FT (0.46 Miles)
Southern Shared Use Path:	Width of Path: 8 FT Length: 1,002 FT (0.19 Miles)
Much Nature Trail:	Width of Path: 5 FT Length: 595 FT

Note: This SDP provides 281 linear feet of the southern shared use path.

**C-4 Street Connections**

Street Name/ID	Street Length	Qualifying Street
Saint Margarets Boulevard	1,684 FT	Yes
Barbury Drive	2,589 FT	Yes
Road A	220 FT	No
Road B	514 FT	No
Road C	228 FT	No
Road D	740 FT	Yes
Road E (North and South)	1,450 FT	Yes
Road F	1,016 FT	Partial
Road G	120 FT	No
Road H	120 FT	No
Road J	465 FT	Yes
Road I	245 FT	No

**Summary**

Total Street Length:	9,301 FT
Total Connected Street Length:	7,393 FT
Percent Connected Streets:	79.6%

Note: This SDP completes improvements to Southmoor Street (formerly Road X).

**C-6 Exceed Minimum Open Space**

Net Acreage:	101.6 AC
Required Amenity Space (TOD: 10% of Net Acreage):	10.2 AC
Provided Amenity Space:	15.7 AC
Percent Increase above the Minimum Required:	53.9 %

Note: 1. This SDP submission contributes 1.72 Acres of Amenity Space to the Complete Build-Out.

**C-7 Green Spaces and Amenity Areas**

Parcel	Road Frontage	Amenity Type	Amenity Area
Open Space 1: The Nature Trail (Future SDP)	160 FT	Nature Trail, Benches, Trail Signage, Educational Signage	31,266 SF (0.72 AC)
Open Space 2: Pool House and Pool (C.S. Lot #107 on SDP-13-008)	4'-138 FT (length along Private Road 'F')	Pool house, Pool, Fitness Room and Warming Kitchen	11,282 SF (0.26 AC)

**D-4 15% Slope Preservation**

Total Area of Slopes 15-24.9%:	504,072 SF
Area of Undisturbed Slopes 15-24.9%:	288,178 SF
Percent of Undisturbed Slopes:	57.4 %

Note: The area of undisturbed slopes is the summation of slopes impacted by the greatest extent of LODs accumulated from the entire site.  
 Approved Sketch Plan (S-14-001), Approved Final Plan (F-12-028), Approved Middle School SDP (SDP-12-079) and future environmental restoration work.

**D-5 Minimize Grading and Site Disturbance**

	Complete Build Out
Gross Area of Site:	111.1 AC
Existing Impervious Cover:	28.4 AC
Area of Site:	82.7 AC
Area of Site to Remain Undisturbed:	28.4 AC
Percent of Site to Remain Undisturbed:	34.3 %
Ratio of Cut to Fill:	1.13 Ratio
Retaining Wall:	0 FT

Note: 1. Complete Build-Out Calculations are based on the aggregate greatest extent of LODs from the submitted Sketch Plan (S-14-001), Approved Final Plan (F-12-028) and Approved Middle School SDP (SDP-12-079).

2. SDP submission land area is located within the Complete Build-Out LOD therefore there are no impacts to undisturbed areas.  
 3. No dirt was imported or exported from Oxford Square.

**D-6 Exceed Minimum Forest Conservation Requirements**

Afforestation Obligation:	3.50 AC
Afforestation Provided in Excess of Obligation:	1.75 AC
Percentage of Provided in Excess of Obligation:	50.00 %

**D-8b Exceed Minimum Stream Buffer Requirements**

Total Stream Buffer Width:	150 FT
Width of Buffer Exceeding Requirements:	75 FT
Total Length of Stream Buffer:	1,984.2 FT
Length of Stream Buffer Outside Other Buffers:	1,352.3 FT
Percent of Stream Buffer Outside Other Buffers:	68.2 %

APPROVED  
 HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 GREEN NEIGHBORHOOD PLAN FOR SITES

*Beth Brey* 9-14-15  
 CHIEF, RESOURCE CONSERVATION DIVISION DATE

LEED ACCREDITED PROFESSIONAL CERTIFICATE  
 GREEN NEIGHBORHOOD PLAN FOR SITES

I hereby certify that this plan represents a practical and workable plan for achieving the targeted credits and point total shown on the Green Neighborhood for Sites Compliance Checklist.

*Matthew J. Fitzsimmons* 10007912 9-8-15  
 MATTHEW J. FITZSIMMONS, LEED AP LEED ACCREDITATION NUMBER DATE

**E-1 Landscaping**

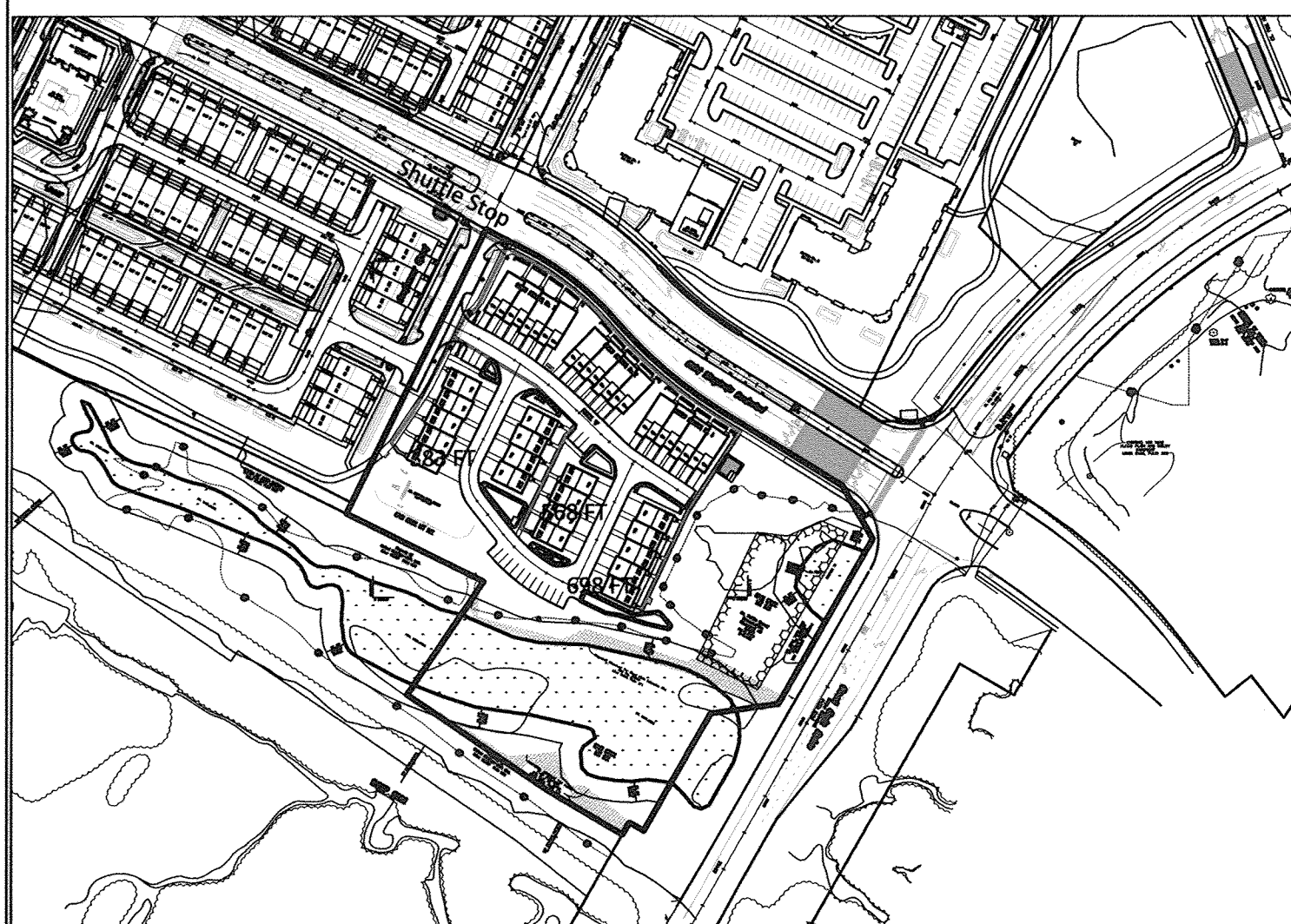
Plants Required	Shade Trees	Evergreen	Shrubs	Total	Percent
Number of Plants Required by Landscape Manual	48	13	0	61	
Number Excess Plants Required for GN Credit	10	3	0	13	21.3
Landscape Manual and GN Requirements	58	16	0	74	

**Plants Provided**

Plants Provided	Shade Trees	Shade Tree (Substitute)	Evergreen	Evergreen (Substitute)	Other Trees (Substitute)	Shrubs	Shrub (Substitute)	Total
Number of Plants Provided to Meet Landscape Manual	30	9	6	7	0	0	0	61
Number of Plants Provided to Meet GN Credits	10	-	0	3	0	0	0	13
Total Number of Plants Provided	40	9	6	10	0	0	0	74

Note: 1. Shade Tree Substitution (10 Ornamental/2=9 Required Shade Trees)  
 2. Evergreen Substitution (7 Ornamentals = 7 Required Evergreen)  
 3. Native Evergreen Substitution (3 NM = 3 Native Evergreen)  
 4. Native Shade Trees: (18 BNH 3 LST, 3 OAR= 24 Native Shade Trees)  
 5. Native Ornamental Trees: (12 NM)  
 6. This plan meets the project's goal to provide a 20% increase of native shade trees.

**B-3a & B-3b VICINITY MAP (Scale: 1"=200')**



**C-6 Green Spaces & Amenity Area (Scale: 1"=100')**



L:\2009\09014\dwg\SDP (Lennar) Parcel 'C'.doc 17 2014 sdp per winner changes\09014 Sheet 20 gn plans revised sept 2013.dwg 9/8/2015 8:15:37 AM 11

 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELLSWORTH CITY, MARYLAND 21040 (410) 461 - 2255	 9-8-15	AS-BUILT CERTIFICATION FOR PSWM Note: There is no "AS BUILT" information provided on this sheet.  ALDO M. VITUCCI No. 10776 Date: 9-8-15	APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  Chief, Division of Land Development 9-23-15 Date	GREEN NEIGHBORHOOD PLAN <b>OXFORD SQUARE</b> "A Howard County Green Neighborhood" Lots 224-241, Open Space Lots 242 & 243 And Parcel 'U' (Being A Resubdivision Of Parcel 'C', As Shown On Plans Entitled "Revision Plat, Oxford Square, "Green Neighborhood", Parcels 'C', 'E', 'F', 'G', 'H', 'I', 'J', 'K' And 'M' And Recorded Among The Land Records Of Howard County, Maryland As Plat Nos. 22956 Thru 22959) Zoned: TOD Tax Map No.: 3B Grid No.: 20 Parcel No.: 1003 First Election District: Howard County, Maryland Scale: As Shown Date: May 7, 2015 Sheet 20 Of 20
			OWNER/BUILDER: Lennar 10211 Minocoin Circle, Suite 180 Columbia, Maryland 21044 Ph: 410-423-0460	
NO.	REVISION	DATE	SUBDIVISION: OXFORD SQUARE PARCEL NO.: 'C' LOT NOS.: LOTS 224-241 & CONDO. BLDGS. 1-3 ELEC. DIST.: 1st CENSUS TR.: 601101	THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET