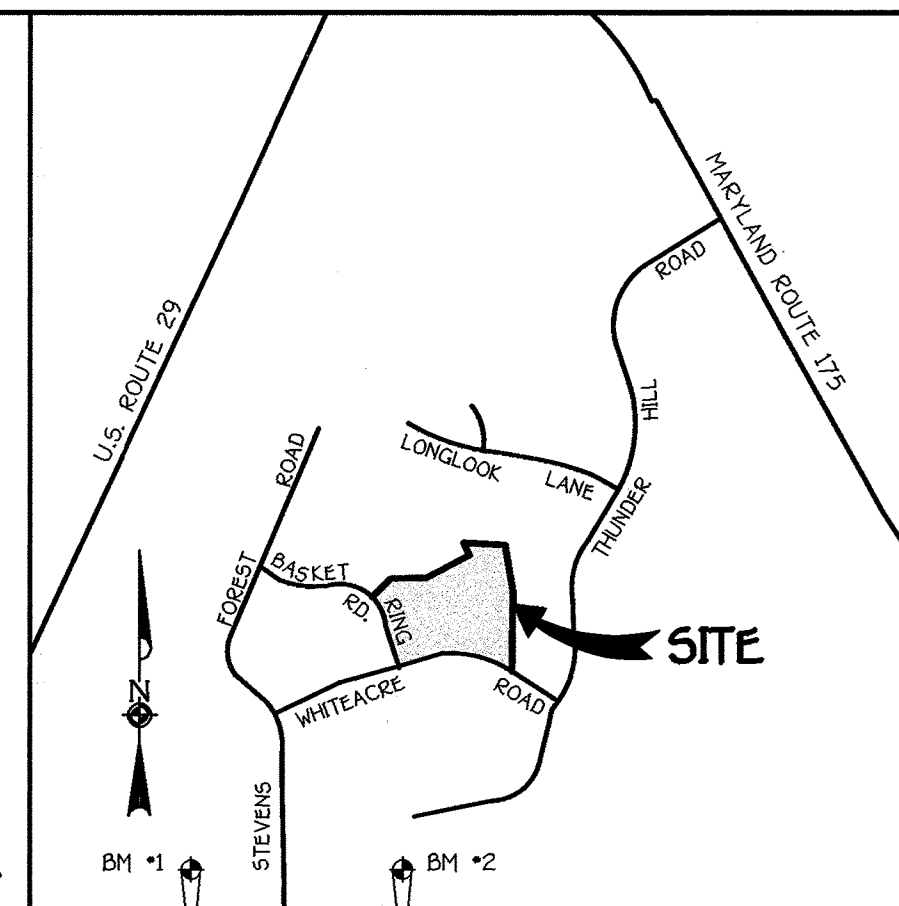


EXISTING MULCHED PLAY AREA & SIDEWALK TO BE REMOVED (SIDEWALK SHOULD BE SAW CUT). EXISTING PLAYGROUND EQUIPMENT SHOULD BE SAVED FOR USE IN NEW PLAY AREA (SEE SDP SHEETS FOR LOCATION).

**BENCHMARK INFORMATION**  
 BM #1 - HOWARD COUNTY CONTROL STATION 36EA  
 STANDARD HOWARD COUNTY SURVEY DISC SET ON A CONCRETE MONUMENT  
 N 496238  
 E 842117  
 BM #2 - HOWARD COUNTY CONTROL STATION 36HA  
 STANDARD HOWARD COUNTY SURVEY DISC SET ON A CONCRETE MONUMENT  
 N 494639  
 E 841963



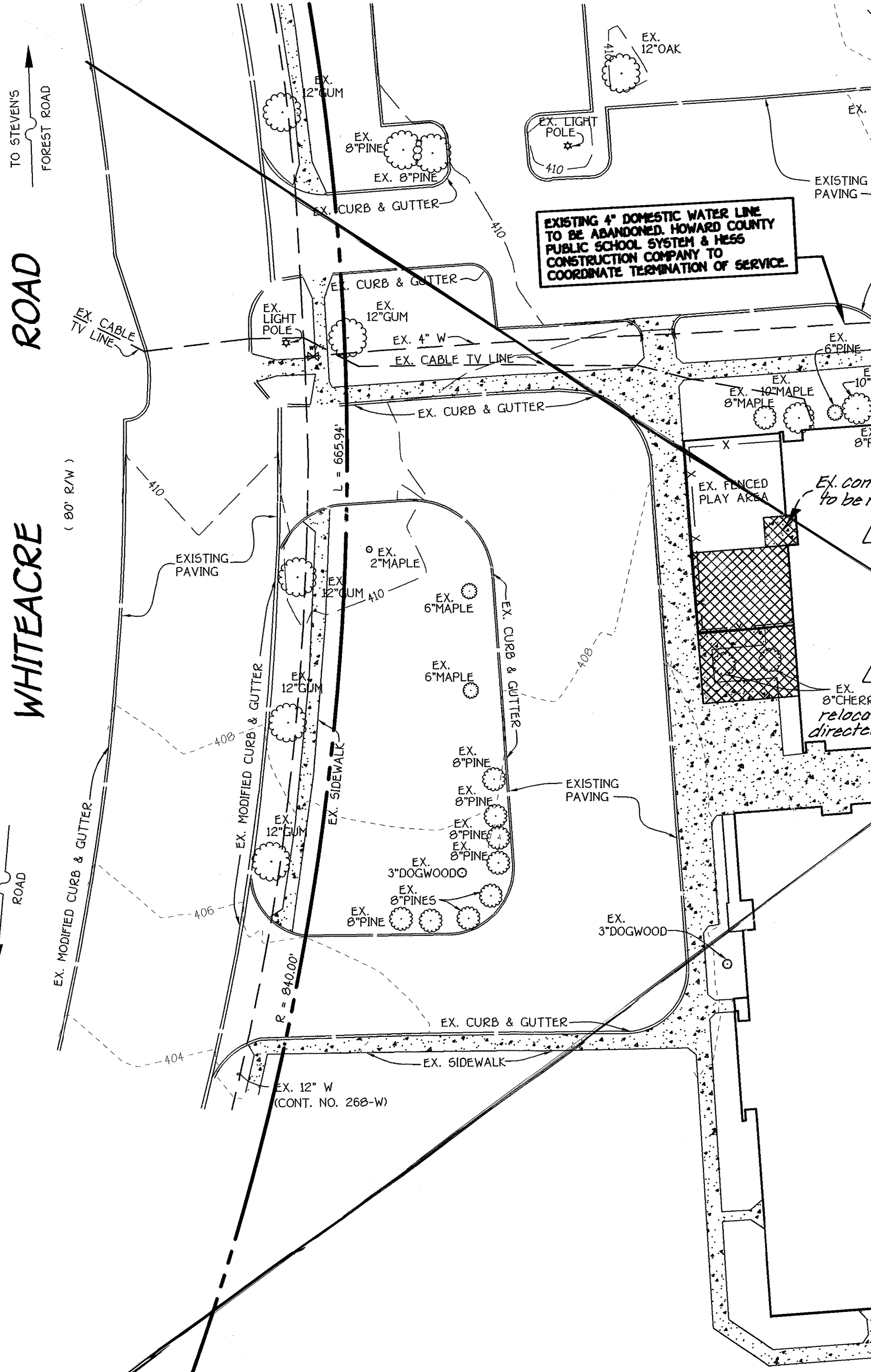
**VICINITY MAP**  
 SCALE: 1"=1200'

**GENERAL NOTES:**

- THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION AT 410-313-1000 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST ONE (1) WEEK PRIOR TO BEGINNING ANY EXCAVATION WORK.
- LOCATIONS OF EXISTING UTILITIES SHOWN ARE TAKEN FROM PORTIONS OF FIELD RUN TOPOGRAPHY AND EXISTING SCHOOL PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATION AND VERIFICATION OF ALL UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL MEANS NECESSARY TO PROTECT CONDITIONS TO BE PRESERVED INCLUDING TREES ON SITE, ALL CURBS, SIDEWALKS, PAVEMENT, SIGNS, FENCES, UTILITIES, UTILITY POLES, AND OTHER ITEMS OUTSIDE THE LIMIT OF DISTURBANCE UNLESS INDICATED TO BE REMOVED. IN THE EVENT OF ANY DAMAGE, THE CONTRACTOR SHALL MAKE ALL REPAIRS AND REPLACEMENTS REQUIRED, TO THE APPROVAL OF THE ARCHITECT, AND AT NO ADDITIONAL COST TO THE OWNER.
- SITE ANALYSIS:
  - PROPERTY OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM, 10910 MARYLAND ROUTE 100, ELLICOTT CITY, MD, 21042
  - USE: TALBOTT SPRINGS ELEMENTARY SCHOOL (GYMNASIUM & ART DEPARTMENT BUILDING ADDITION), WHITEACRE ROAD, COLUMBIA, MD, 21045.
  - TAX MAP 36, PARCEL 283, LOT 216
  - TOTAL AREA OF SITE: 10 ACRES
  - ZONING: NEW TOWN - OPEN SPACE (NT-OS); FDP-51
  - EXISTING PLAN NO. SDP 72-176
  - ADDITIONAL FLOOR AREA = 6,600 SQ. FT.
  - THERE WILL BE NO INCREASE IN TEACHERS OR STUDENTS. ADDITIONAL PARKING SPACES ARE NOT REQUIRED (PER HOWARD COUNTY PUBLIC SCHOOL SYSTEM).
- HORIZONTAL AND VERTICAL CONTROL DATUM WAS USED FROM SDP 72-176 & FROM HOWARD COUNTY CONTROL STATIONS 36EA AND 36HA.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUN SURVEY WITH TWO FOOT CONTOUR INTERVALS PREPARED BY FISHER, COLLINS & CARTER, INC. DATED JUNE, 1999.
- THE COORDINATES SHOWN HEREON ARE BASED ON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM; HOWARD COUNTY MONUMENT NOS. 36EA AND 36HA WERE USED FOR THIS PROJECT.
- WATER IS PUBLIC (CONTRACT NO. 260 W & S, PATUXENT DRAINAGE AREA).
- SEWER IS PUBLIC (CONTRACT NO. 295 W & S, PATUXENT DRAINAGE AREA).
- STORMWATER MANAGEMENT WAS EXEMPT FROM THIS PROJECT.
- EXISTING UTILITIES ARE BASED ON FIELD RUN TOPOGRAPHY, AS WELL AS CONTRACT NOS. 260 W & S AND 295 W & S.
- THERE IS NO FLOODPLAIN ON THIS SITE.
- THERE ARE NO WETLANDS ON THIS SITE.
- NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
- THERE ARE 64 EXISTING PARKING SPACES ON THIS SITE. THE PROPOSED ADDITIONS AND IMPROVEMENTS WILL NOT INCREASE THE NUMBER OF TEACHERS OR STUDENTS, AND WILL NOT REQUIRE ADDITIONAL PARKING SPACES. REFERENCE PREVIOUS FILE NUMBERS: SDP 72-176, FDP-51 AND PLAT BOOK 17, FOLIO 5A, F. C. 8-27.
- THE PROPOSED BUILDING IS 46,039 SQ.FT. (BUILDING COVERAGE = 10.6% OF SITE). THE PROPOSED BUILDING ADDITION IS 6,600 SQ.FT. (BUILDING COVERAGE = 1.5% OF SITE). THE TOTAL BUILDING COVERAGE FOR THIS SITE IS 12.8%.
- The new building addition is 12,99 sq. ft.*
- THIS NOTE IS FOR THE REVISION ONLY.
- WORKER COMPENSATION PROGRAM CHANGE FOR PREVIOUSLY DEVELOPED AREAS COVERED BY IMPROVED SURFACE, EFFECTIVE DECEMBER 1, 2015 MARYLAND'S WORKER COMPENSATION ACT (S.B. 100) IS OBSOLETE SINCE IT IS PART OF A PLANNED UNIT DEVELOPMENT WITH 50% OR MORE DEVELOPED PRIOR TO DECEMBER 31, 1992.

SEE SHEETS 8-9 FOR REVISED PLANS

EXISTING SCHOOL BUILDING  
 FINISHED FLOOR ELEV. = 409.50



EXISTING GAS LINE TO BE RELOCATED FROM UNDER PROPOSED BUILDING ADDITION HOWARD COUNTY PUBLIC SCHOOL SYSTEM TO COORDINATE WITH SCE.

EXISTING 4" DOMESTIC WATERLINE & VALVE TO BE REMOVED UNDER BUILDING ADDITION HOWARD COUNTY PUBLIC SCHOOL SYSTEM & HESS CONSTRUCTION COMPANY TO COORDINATE TERMINATION OF SERVICE.

EXISTING BASKETBALL POSTS TO BE REMOVED. BACKBOARDS AND RIMS TO BE SAVED FOR USE WITH NEW POSTS - SEE SDP SHEETS FOR LOCATION. (TYPICAL, 4 PLACES).

EXISTING MACADAM & EXISTING CONCRETE SIDEWALK TO BE REMOVED. (OUTLINE SHOULD BE SAW - CUT)

NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING EXISTING CONCRETE & MACADAM UP TO PROPOSED BUILDING ADDITION.

EXISTING PORTABLE CLASSROOM TO BE RELOCATED EAST OF THE CURRENT LOCATION BY HOWARD COUNTY PUBLIC SCHOOL SYSTEM.

**LEGEND**

Symbol	Description
---	Existing Contour 2' Interval
---	Existing Contour 10' Interval
---	Proposed Contour 2' Interval
---	Proposed Contour 10' Interval
+ 624	Spot Elevation
-5F - 5F	Silt Fence
FF	First Floor Elevation
BE	Basement Elevation
L.O.D.	Limit of Disturbance
(Tree symbol)	Existing Tree

**SHEET INDEX**

SHEET No.	DESCRIPTION
1	DEMOLITION PLAN, VICINITY MAP, GENERAL NOTES
2	SITE IMPROVEMENT PLAN; SCHEMATIC BUILDING PROFILE
3	SITE IMPROVEMENT PLAN, MISC. DETAILS
4	WATER MAIN PROFILE, MISC. DETAILS
5	SEDIMENT & EROSION CONTROL NOTES, MISC. DETAILS
6	STORM DRAIN & WATER PROFILES
7	SEDIMENT & EROSION CONTROL NOTES AND DETAIL SHEET
8	DEMOLITION PLAN
9	DEMOLITION PLAN
10	SITE IMPROVEMENT PLAN
11	SITE IMPROVEMENT PLAN

**ADDRESS CHART**

LOT NO.	ADDRESS
OPEN SPACE LOT 216 TALBOTT SPRINGS ELEM.	9550 BASKET RING ROAD COLUMBIA, MD. 21045

**Note:**  
 A building permit for the proposed school expansion shall be applied for within one (1) year measured from the VED approval letter for this red-line revision or before March 9, 2008.

No.	Revision	Date
3	REVISE TOTAL SHEET #, ADD DETAILS, REVISE SHEET INDEX	5/30/00
2	REVISED SHEET INDEX & SHEET NUMBER	4/06/00
1	Labelled ex. concrete sidewalk to be removed & ex. cherry trees to be relocated, added Bldg permit notes revised per Note No. 72	3-20-07

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 410-461-2955

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 3/26/99

**ENGINEER'S CERTIFICATE**  
 I certify that this plan for erosion and sediment 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.  
 Signature of Engineer (Print name below signature) *Cliff* 7/14/99 Date  
**DEVELOPER'S CERTIFICATE**  
 I/we certify that all development and construction will be done according to this plan, and that any 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.  
 Signature of Developer (Print name below signature) *John K. Roberts* 7/14/99 Date

Reviewed for HOWARD COUNTY and meets Technical Requirements.  
*Cheryl Simmonds* 9/29/99 Date  
 (Howd. Natural Resource Conservation Service)  
 This development plan is approved for erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.  
*John K. Roberts* 9/29/99 Date  
 HOWARD SCD  
**OWNER**  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 MARYLAND ROUTE 100  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 313-6600

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Chris Thomas* 10/7/99 Date  
 Chief, Division of Land Development  
*John D. Roberts* 10/1/99 Date  
 Chief, Development Engineering Division  
*John D. Roberts* 10/7/99 Date  
 Director - Department of Planning and Zoning

PROJECT	SECTION/AREA	PARCEL NO.
VILLAGE OF OAKLAND MILLS TALBOTT SPRINGS ELEM. SCHOOL OPEN SPACE LOT 216	4/1	283

DEED	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
L. 643 / F. 62	3	NT-OS; FDP-51	36/	SIXTH	6066.03

WATER CODE	SEWER CODE
E03	5580800

**DEMOLITION PLAN**  
 VILLAGE OF OAKLAND MILLS; SECTION 4, AREA 1  
**TALBOTT SPRINGS ELEMENTARY SCHOOL**  
 (GYMNASIUM & ART DEPARTMENT BUILDING ADDITION)  
 OPEN SPACE LOT 216; PLAT BOOK 17, FOLIO 5A  
 TAX MAP No: 36 PARCEL: 283  
 SIXTH ELECTION DISTRICT- HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: JULY 28, 1999  
 SHEET 1 OF 11



PUBLIC WATER MAIN CONSTRUCTION WILL BE COMPLETED UNDER AN ADVANCED DEPOSIT ORDER (ADO) WITH HOWARD COUNTY BUREAU OF UTILITIES

NOTE: THE CONTRACTOR IS TO PROTECT THE INTEGRITY OF EXISTING TREES & ROOT SYSTEMS DURING WATER MAIN CONSTRUCTION.

**Construction Sequence for Classroom Addition**

1. Obtain grading permit.
2. Notify "Miss Utility" at least 48 hours before beginning any work at 1-800-257-7777. Notify the Howard County Office of Construction Inspection at 410-313-1330 24 hours before starting work.
3. Install sediment control measures shown on plans, 1 week.
4. Grade to subgrade classroom addition area.
5. Construct classroom addition, 9 months.
6. Fine grade disturbed areas and stabilize with permanent seeding.
7. Notify Howard County Office of Construction Inspection for permission to remove sediment control measures and stabilize areas with permanent seeding.

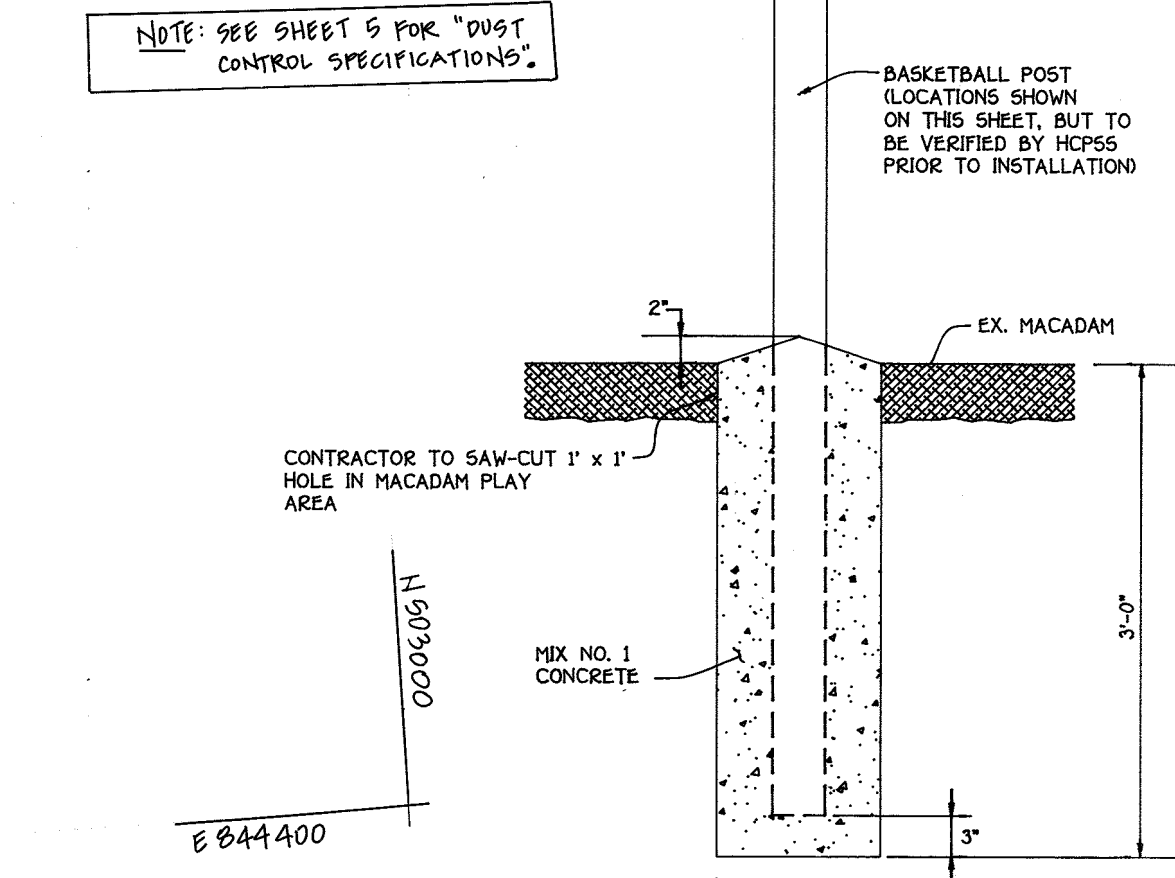
**WOOD CARPET NOTES**

- HOWARD COUNTY PUBLIC SCHOOL SYSTEM WILL CONTRACT THE INSTALLER OF THE WOOD CARPET PLAY AREA AND PLAY EQUIPMENT INDEPENDENTLY.
- SITE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN WOOD CARPET PLAY AREA TO PERFORATED PIPE DRAIN.
- CONTRACTOR SHALL CONNECT 4" STORM DRAIN TO EXISTING INLET AS INDICATED. EXISTING INLET SHALL BE REPAIRED TO HOWARD COUNTY STANDARD AFTER CONNECTION OF PROPOSED STORM DRAIN.

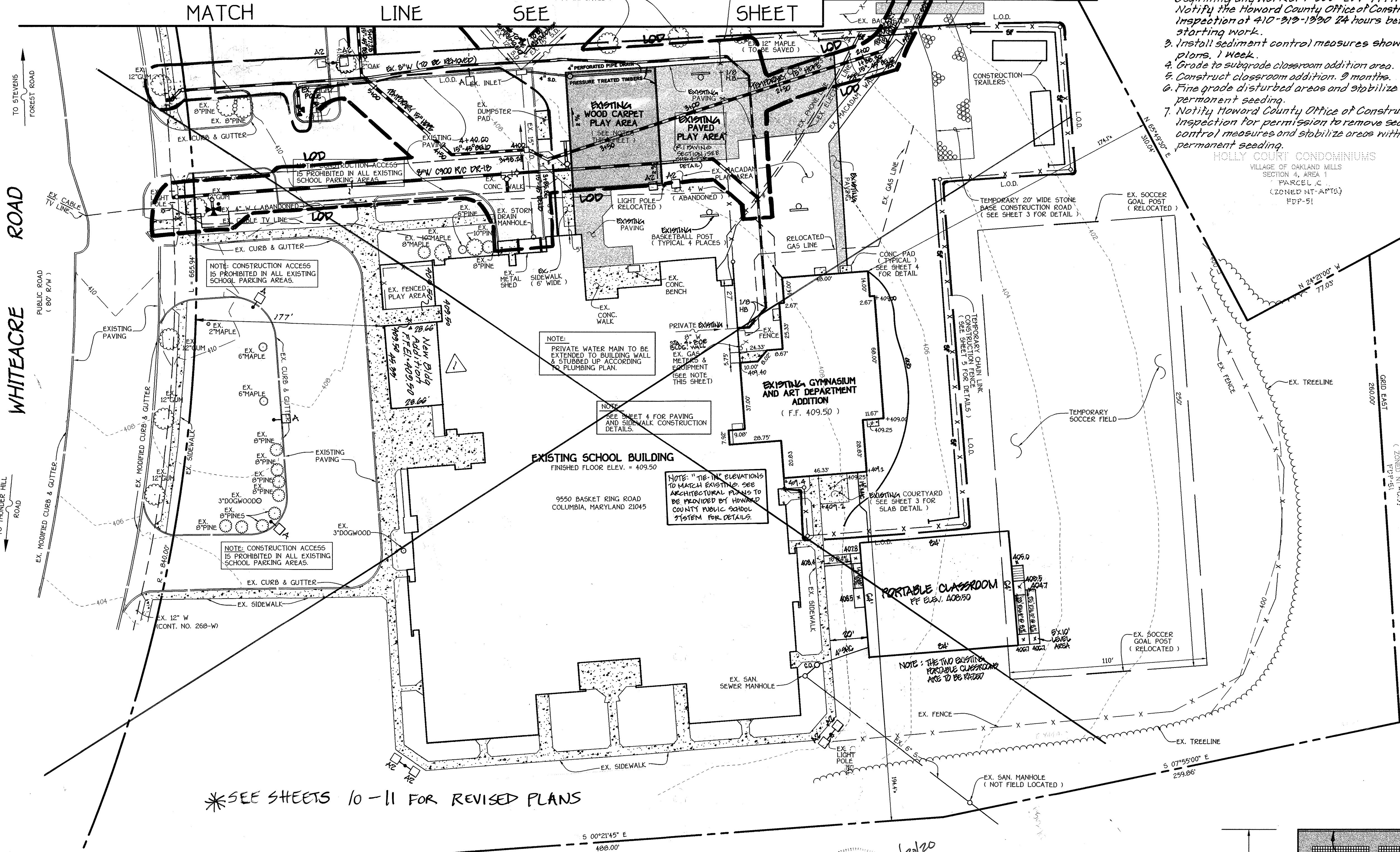
NOTE: ABSOLUTELY NO CONSTRUCTION TRAFFIC WILL BE PERMITTED TO ENTER OR EXIT THE SITE DURING HEAVY PEDESTRIAN TRAFFIC HOURS. TIMES WILL BE DETERMINED BY HOWARD COUNTY PUBLIC SCHOOL SYSTEM.

NOTE: EXISTING CHAIN LINK FENCE AT GAS METERS AND EQUIPMENT SHOULD BE RESTORED TO LIKE NEW CONDITION FOLLOWING EXTERIOR CONSTRUCTION ACTIVITIES.

NOTE: SEE SHEET 5 FOR "DUST CONTROL SPECIFICATIONS".



REVISION #4  
2/28/13  
REVISION #3  
9/11/10  
REVISION #1  
3/30/11  
REVISION #2  
2/21/10



\*SEE SHEETS 10-11 FOR REVISED PLANS

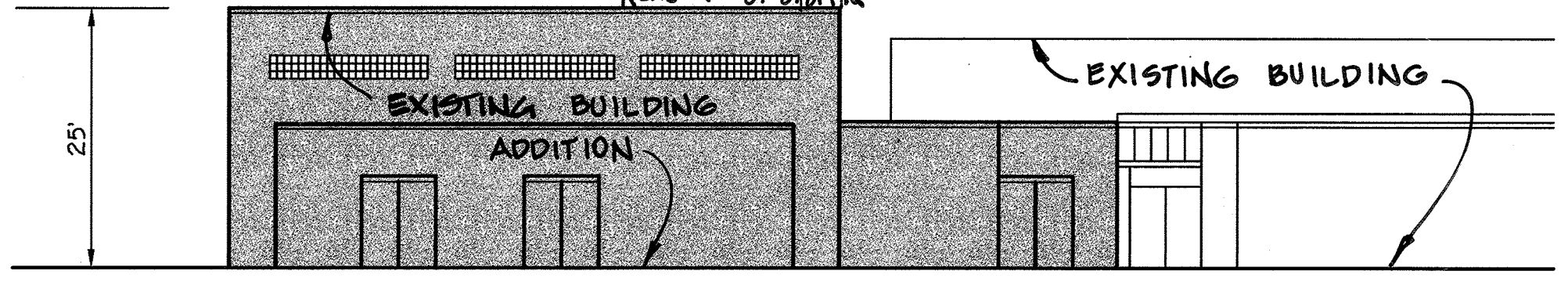
OPEN SPACE - LOT 215  
PROPERTY OF COLUMBIA ASSOCIATION  
L. 3324, F. 191  
(ZONED HT-05)  
PDF-51

PLAN VIEW  
SCALE: 1" = 30'

NOTE: THE PURPOSE OF THIS REVISION IS TO ADD A PORTABLE CLASSROOM.

**LEGEND**

Symbol	Description
---	Existing Contour 2' Interval
---	Existing Contour 10' Interval
---	Proposed Contour 2' Interval
---	Proposed Contour 10' Interval
+ 624	Spot Elevation
-SF - SF-	Silt Fence
FF	First Floor Elevation
BE	Basement Elevation
L.O.D.	Limit of Disturbance
○	Existing Tree



EXISTING WEST ELEVATION  
NOT TO SCALE

**LEGEND**

SYMBOL	DESCRIPTION
○	LED POLE MOUNTED LUMINAIRE ON A 25' ROUND ALUMINUM POLE
□	DUAL HEAD LED POLE MOUNTED LUMINAIRE ON A 25' ROUND ALUMINUM POLE

**ENGINEER'S CERTIFICATE**  
I certify that this plan for erosion and sediment 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.

Signature of Engineer (Print name below signature) *Cheryl...* Date 7/14/99

**DEVELOPER'S CERTIFICATE**  
I/We certify that all development and construction will be done according to this plan, and that any 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.

Signature of Developer (Print name below signature) *Howard County Public School System* Date 7/14/99

APPROVED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.  
Signature of Howard SCD Conservation Service *John...* Date 9/29/99  
Signature of Howard SCD Conservation Service *John...* Date 9/29/99

**OWNER**  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 MARYLAND ROUTE 108  
ELLICOTT CITY, MARYLAND 21042  
(410) 313-6600

APPROVED DEPARTMENT OF PLANNING AND ZONING  
Signature of Chief, Division of Land Development *...* Date 10/2/99  
Signature of Chief, Department of Planning and Zoning *...* Date 10/1/99

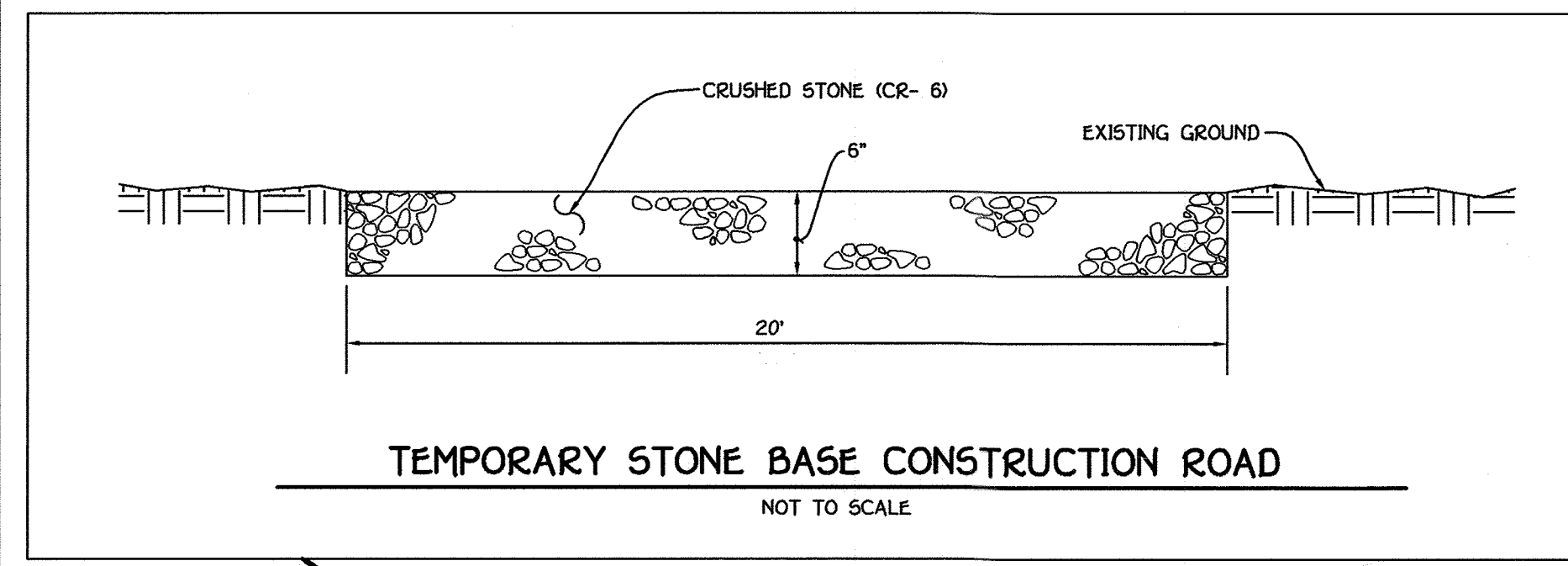
DEED L. 643/ F. 62	BLOCK NO. 3	ZONE (PDF-51)	TAX/ZONE 36/	ELEC. DIST. SIXTH	CENSUS TR. 6066.03
WATER CODE E03	SEWER CODE 5580800				

**SITE DEVELOPMENT PLAN**  
VILLAGE OF OAKLAND MILLS; SECTION 4, AREA 1  
**TALBOTT SPRINGS ELEMENTARY SCHOOL**  
(GYMNASIUM & ART DEPARTMENT BUILDING ADDITION)  
OPEN SPACE LOT 215; PLAT BOOK 17, P.0410 54  
TAX MAP No: 36 PARCEL: 283  
SIXTH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' DATE: JULY 7, 1999  
SHEET 2 OF 11  
SDP-00-11

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
ELLIOTT CITY, MARYLAND 21042  
410.461.2955

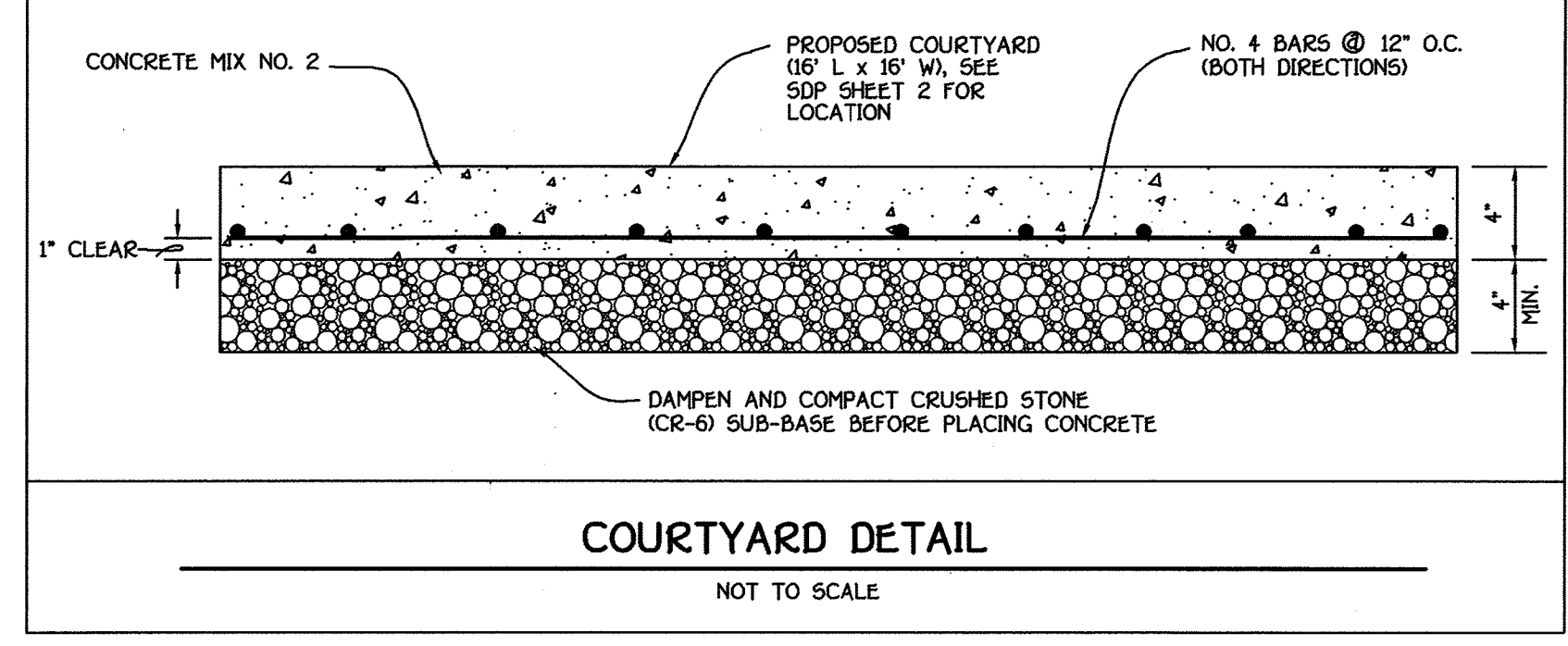
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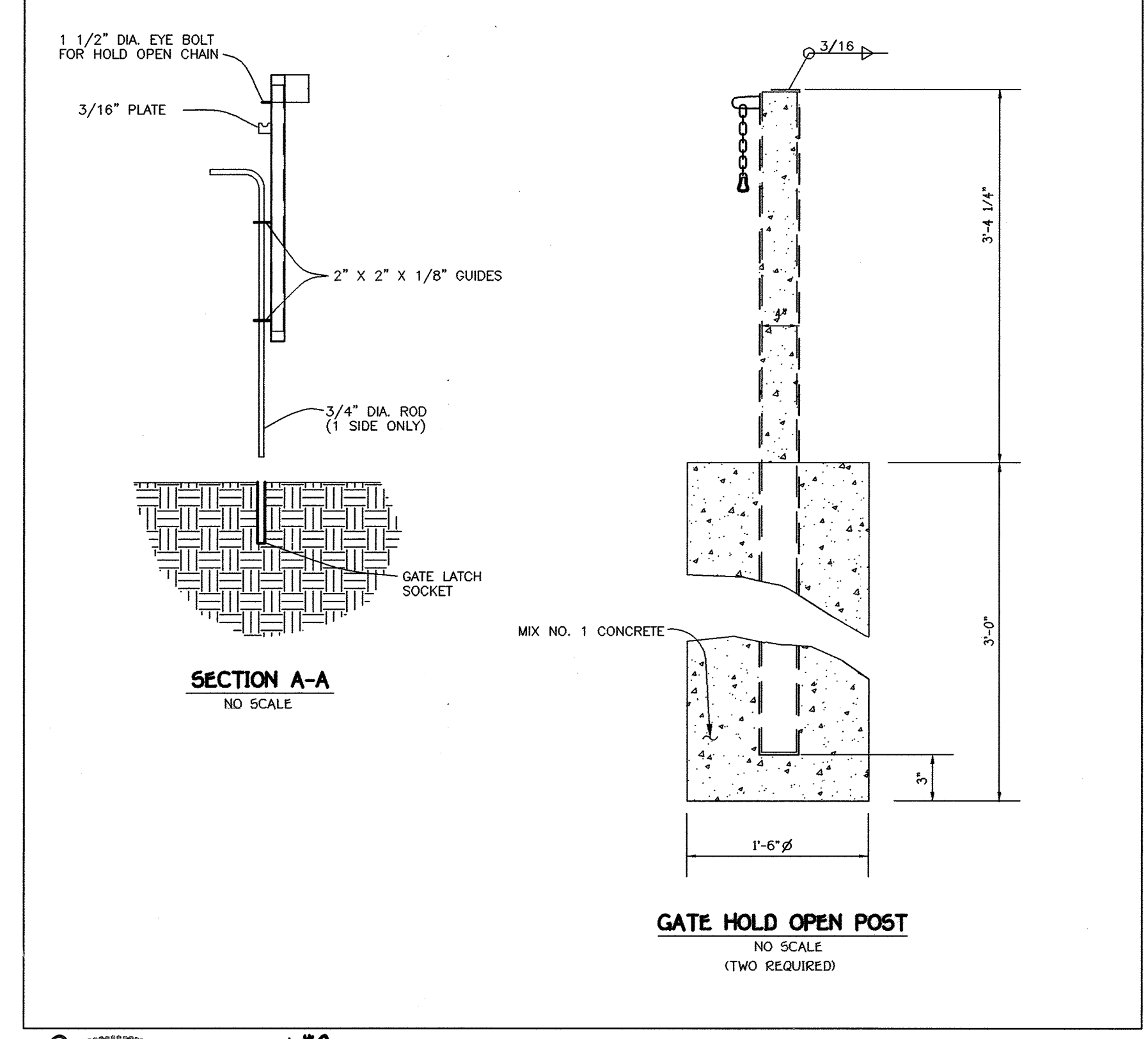
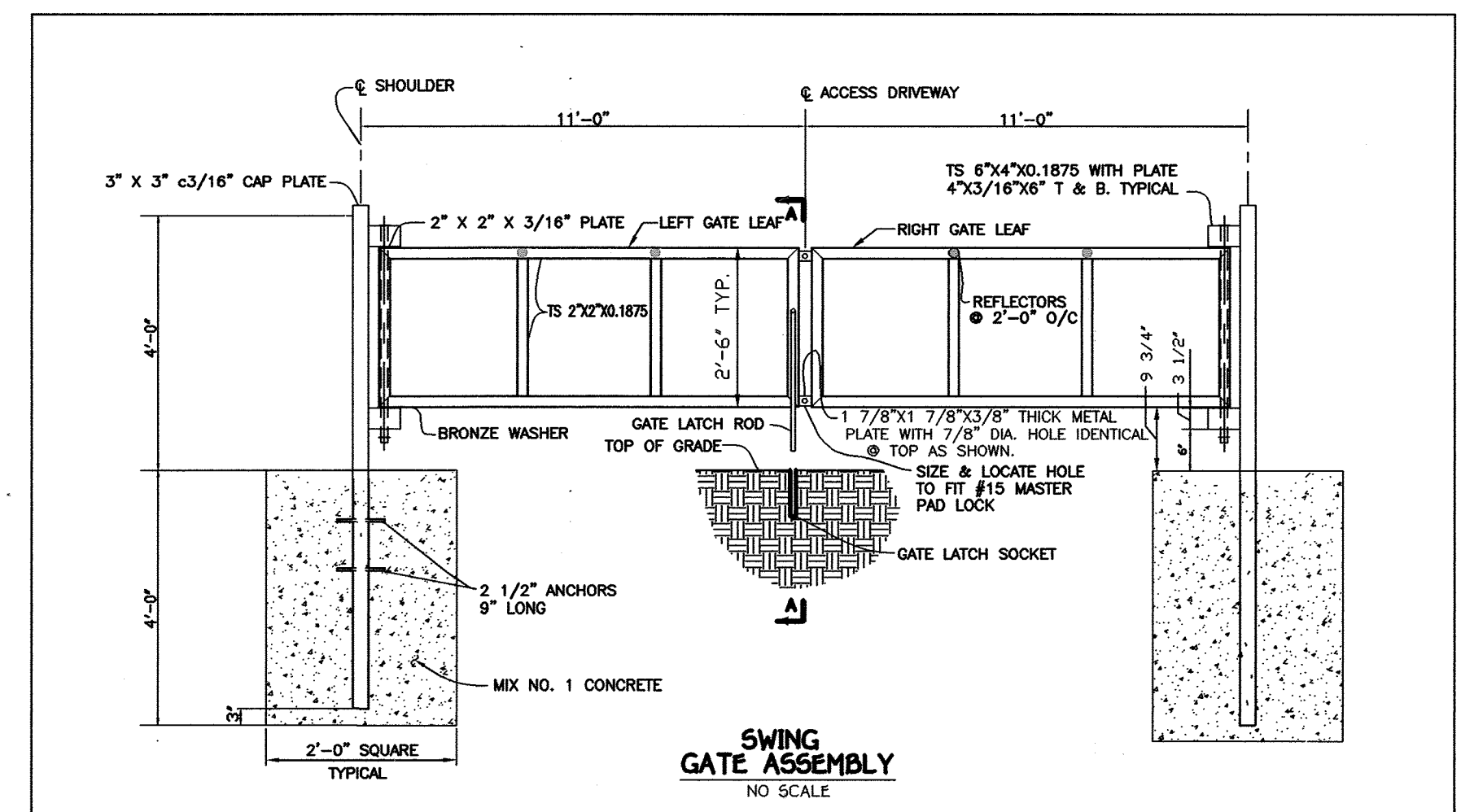
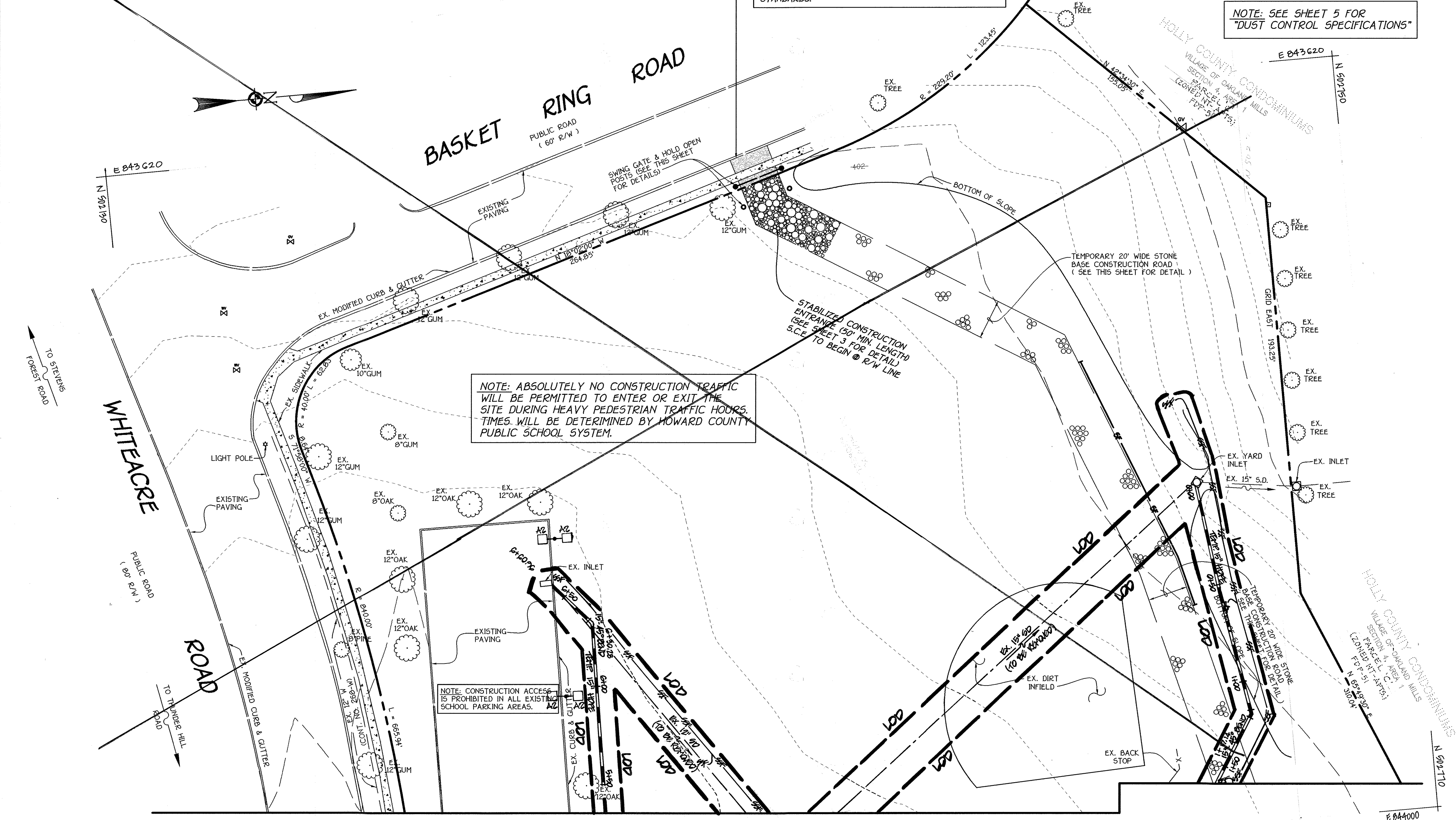


TEMPORARY ASPHALT APRON FROM BACK OF EXISTING CURB TO FRONT OF EXISTING SIDEWALK & FROM BACK OF EXISTING SIDEWALK TO R/W LINE. FOLLOWING COMPLETION OF ALL CONSTRUCTION THE CONTRACTOR IS TO RE-ESTABLISH THE CURB & GUTTER AND SIDEWALK IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.

LEGEND	
Symbol	Description
---	Existing Contour 2' Interval
---	Existing Contour 10' Interval
---	Proposed Contour 2' Interval
---	Proposed Contour 10' Interval
•	Spot Elevation
—SF—SF—	Silt Fence
FF	First Floor Elevation
BE	Basement Elevation
L.O.D.	Limit Of Disturbance
○	Existing Tree



NOTE: SEE SHEET 5 FOR "DUST CONTROL SPECIFICATIONS"



MATCH LINE SEE SHEET 2

LEGEND	
SYMBOL	DESCRIPTION
⊠	DUAL HEAD LED POLE MOUNTED LUMINAIRE ON A 2 1/2" ROUND ALUMINUM POLE

\*SEE SHEETS 10-11 FOR REVISED PLANS

PLAN VIEW  
SCALE: 1" = 30'

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK • 10272 BALDORNE NATIONAL PARK  
ELLCOTT CITY, MARYLAND 21042  
(410) 461 - 2255

NO.	REVISION	DATE
3	REFER TO REVISED SHEETS AND REVISE TOTAL SHT #	5/31/20
2	REMOVED AREA NUMBER, REVISED BY OTHER DEPT., INSIDE TEMPORARY 15' WIDE	2/28/15
1	ADDED LIGHT POLES WITH LED POLE MOUNTED LUMINAIRES	2/24/12
NO.	REVISION	DATE

**APPROVED PLANNING BOARD OF HOWARD COUNTY**  
DATE: 8/26/99

**ENGINEER'S CERTIFICATE**  
I certify that this plan for erosion and sediment 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.

Signature of Engineer (Print name below signature) Cheryl Date 7/14/99

**DEVELOPER'S CERTIFICATE**  
I/We certify that all development and construction will be done according to this plan, and that any 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.

Signature of Developer (Print name below signature) Walter Date 7/14/99

Reviewed for HOWARD SCD and meets Technical Requirements.

Cheryl Simmen 9/29/99  
N.S.D. - Natural Resources Conservation Service

John K. Kowalski 9/29/99  
This development plan has been approved for erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

**OWNER**  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 MARYLAND ROUTE 108  
ELLCOTT CITY, MARYLAND 21042  
(410) 313-6600

APPROVED DEPARTMENT OF PLANNING AND ZONING

Chris Hamilton 10/7/95  
Chief, Division of Land Development

Walter 10/1/99  
Chief, Development Engineering Division

James S. Smith 10/7/95  
Director - Department of Planning and Zoning

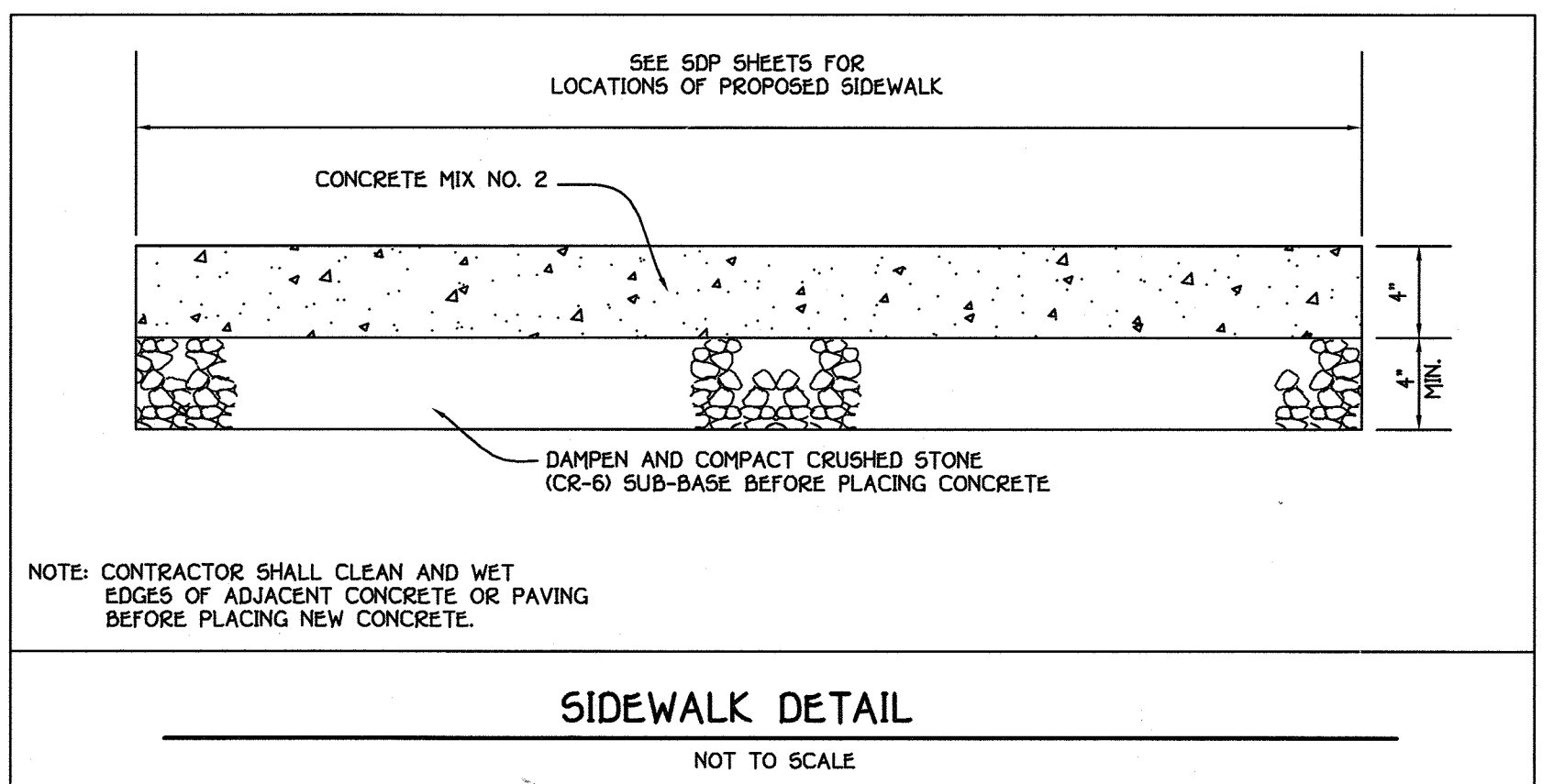
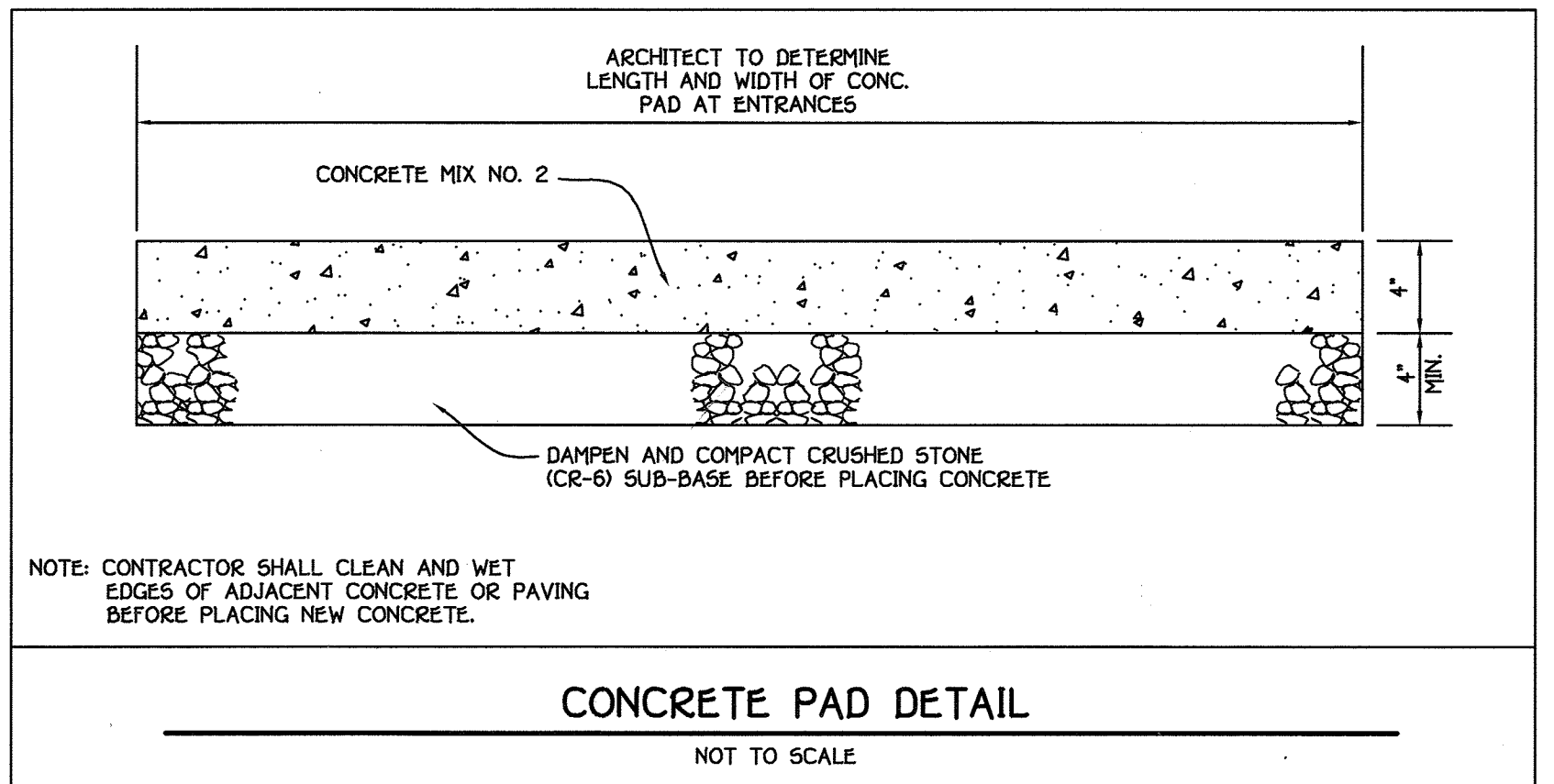
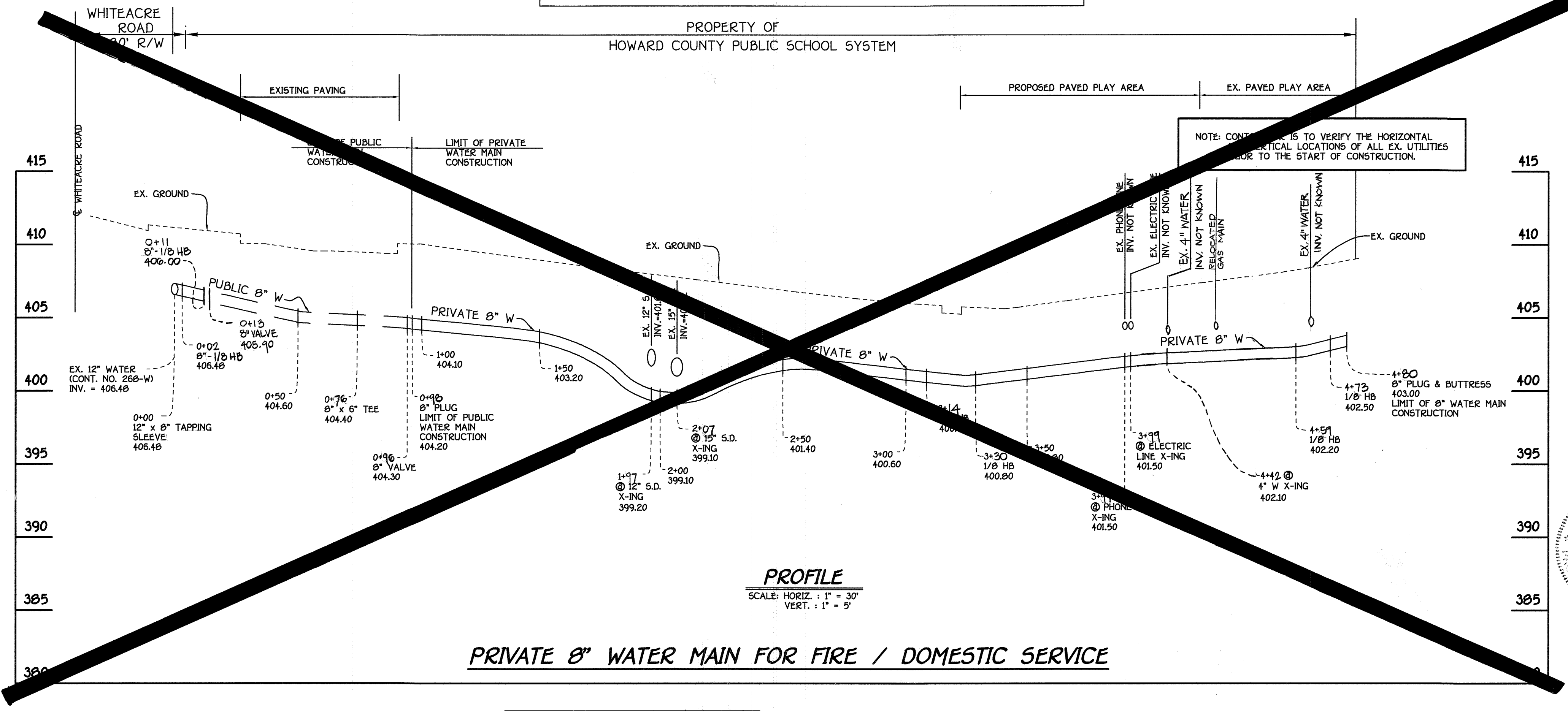
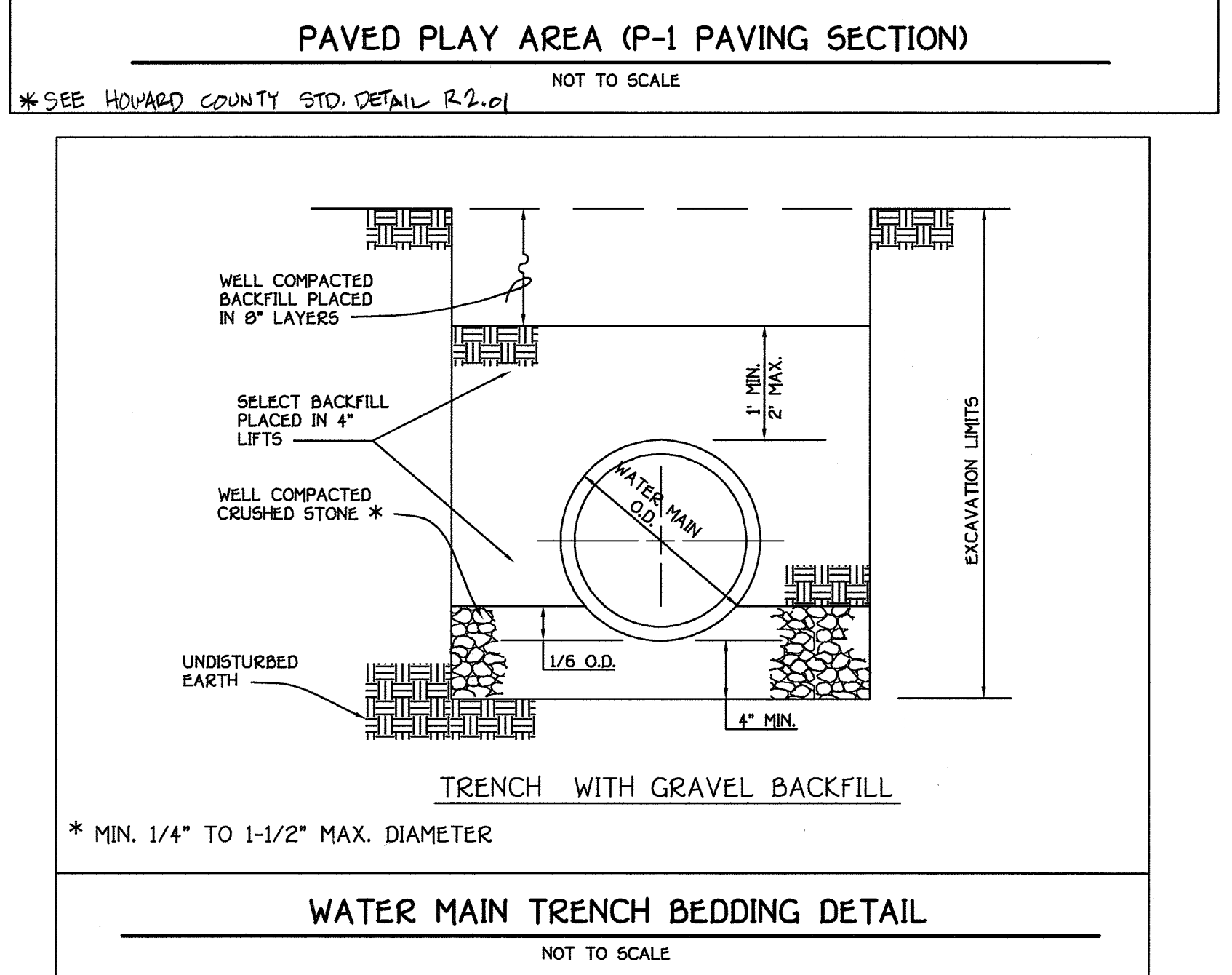
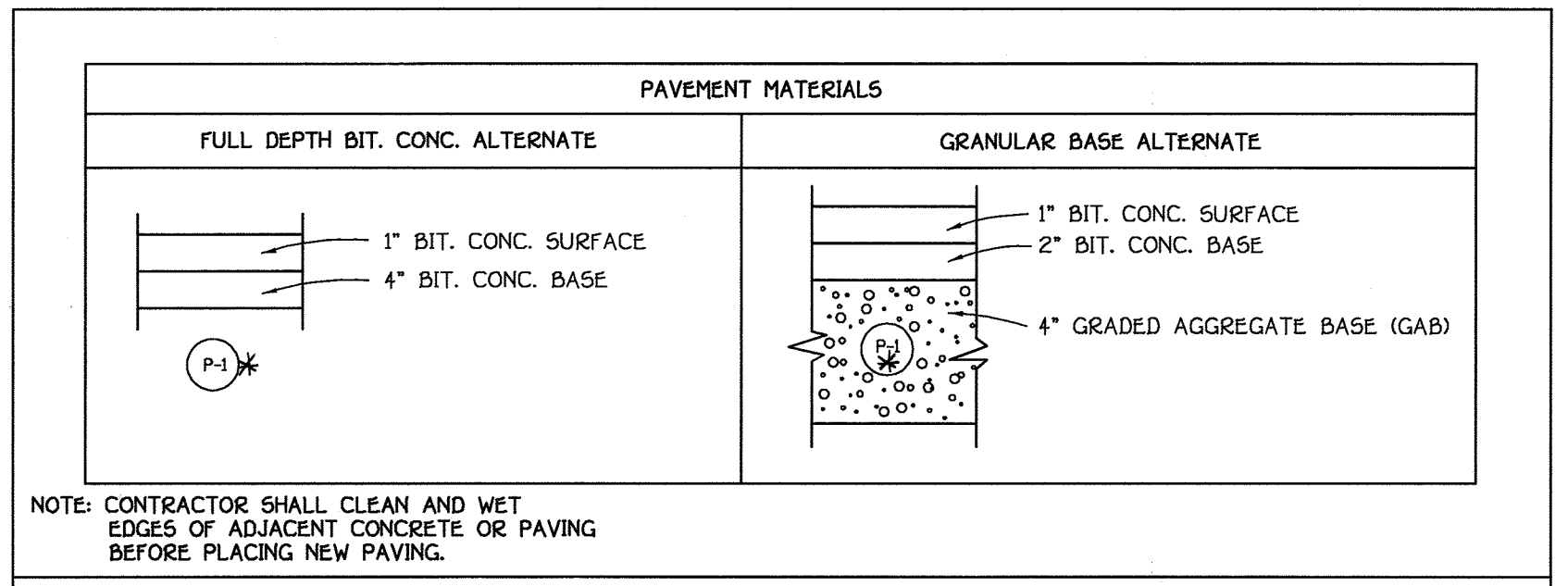
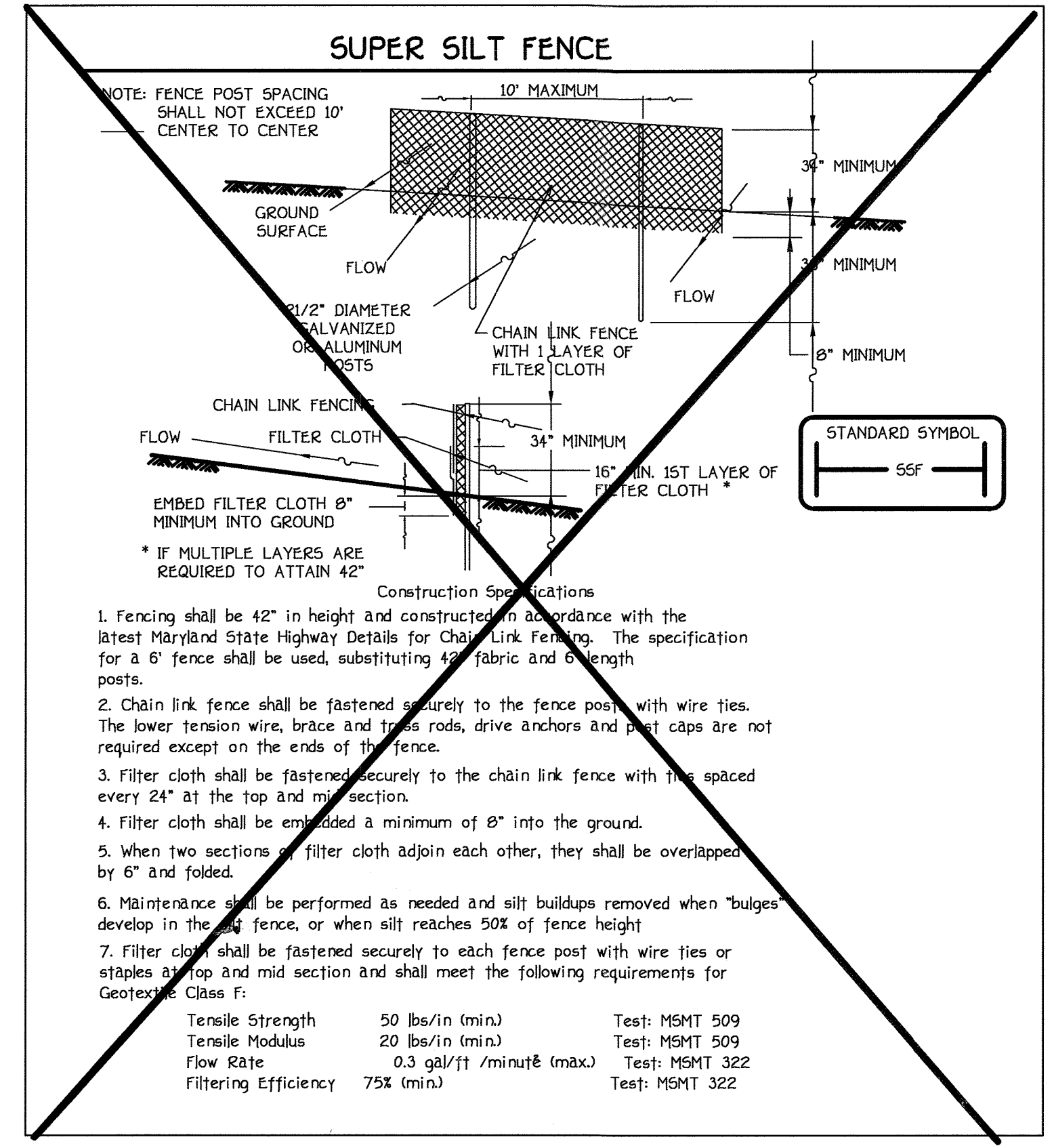
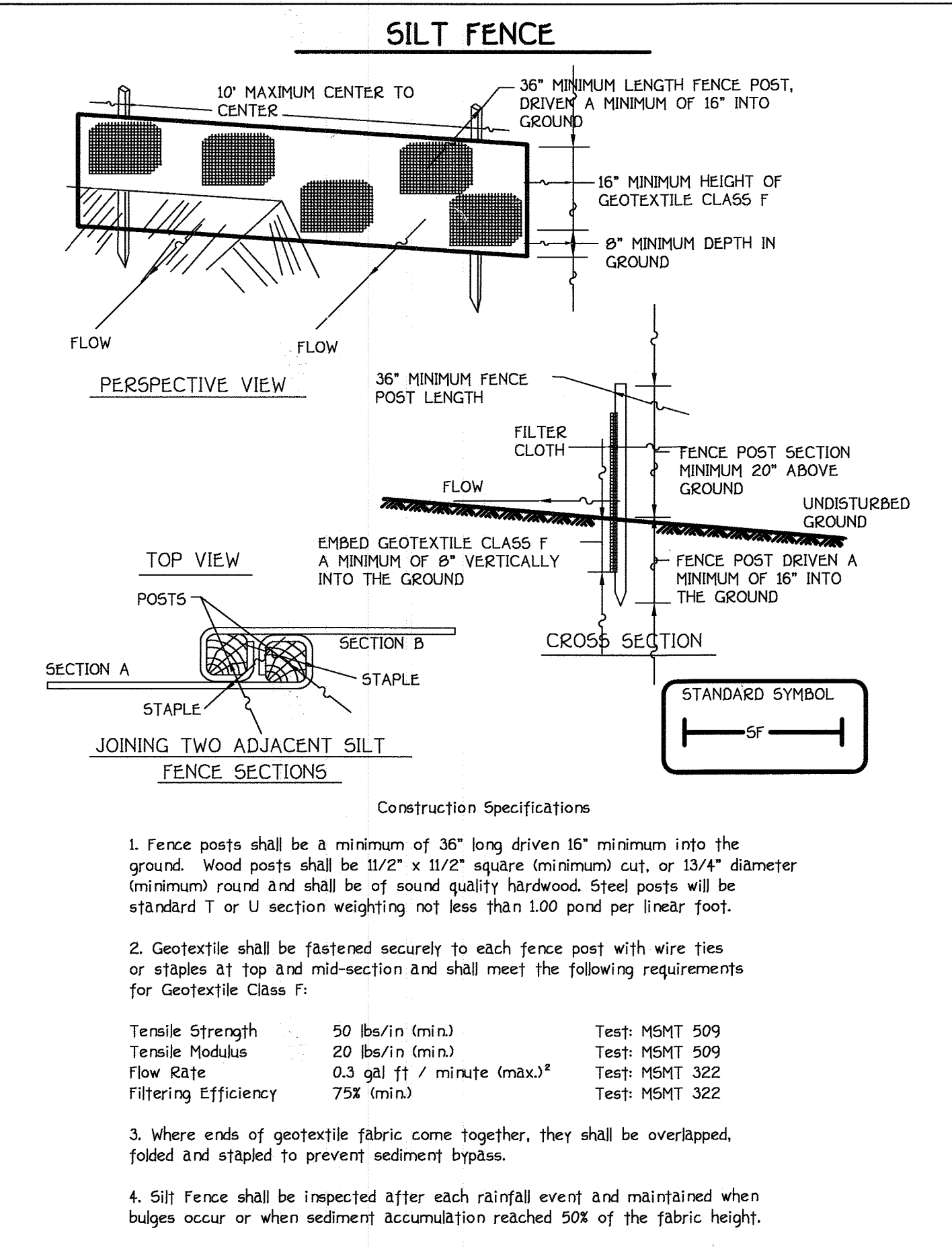
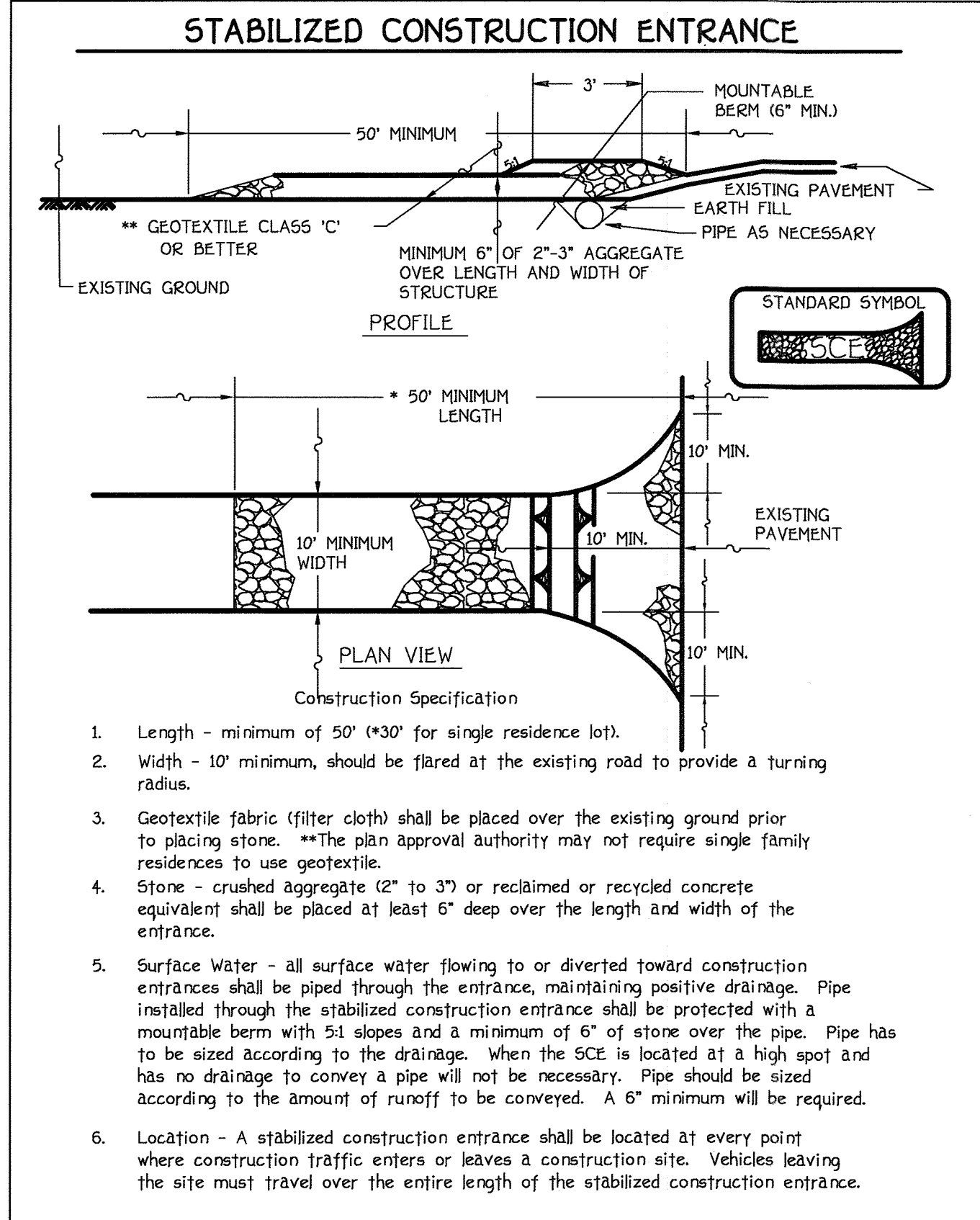
PROJECT: VILLAGE OF OAKLAND MILLS, TALBOTT SPRINGS ELEM. SCHOOL, OPEN SPACE LOT 216  
SECTION/AREA: 4/1  
PARCEL NO.: 283

DEED: L. 643/ F. 62  
BLOCK NO.: 3  
ZONE: NT-05, FBP-51  
TAX/ZONE: 36/  
ELEC. DIST.: SIXTH  
CENSUS TR.: 6066.03

WATER CODE: E03  
SEWER CODE: 5580900

**SITE DEVELOPMENT PLAN**  
VILLAGE OF OAKLAND MILLS; SECTION 4, AREA 1  
**TALBOTT SPRINGS ELEMENTARY SCHOOL**  
(GYMNASIUM & ART DEPARTMENT BUILDING ADDITION)  
OPEN SPACE LOT 216; PLAT BOOK 17, FOLIO 54  
TAX MAP No: 36 PARCEL: 283  
SIXTH ELECTION DISTRICT- HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: JULY 28, 1999  
SHEET 3 OF 11





**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLICOTT CITY, MARYLAND 21042  
(410) 461-2095

NO.	REVISION	DATE
3	REVISED TOTAL SHT #	5/20/99
1	REMOVED SHEET NUMBER & REVISION NUMBER PREVIOUS	4/26/99

**APPROVED PLANNING BOARD OF HOWARD COUNTY**  
DATE: **8/26/99**

**ENGINEER'S CERTIFICATE**  
I certify that this plan for erosion and sediment 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.

*Charles J. Fisher*  
Signature of Engineer (Print name below signature) Date: **7/14/99**

**DEVELOPER'S CERTIFICATE**  
I/We certify that all development and construction will be done according to this plan, and that any 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.

*William R. Hays*  
Signature of Developer (Print name below signature) Date: **7/14/99**

Reviewed for SDP, SCD and meets Technical Requirements.

*Chief Sumner*  
U.S.D.A. - National Resources Conservation Service  
Date: **9/29/99**

*John P. ...*  
HOWARD SOIL CONSERVATION DISTRICT  
Date: **9/29/99**

**OWNER**  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 MARYLAND ROUTE 108  
ELLICOTT CITY, MARYLAND 21042  
(410) 313-6500

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Cindy Hamblet*  
Chief, Division of Land Development  
Date: **10/7/99**

*John P. ...*  
Chief, Development Engineering Division  
Date: **10/7/99**

*James ...*  
Director, Department of Planning and Zoning  
Date: **10/7/99**

**PROJECT:** VILLAGE OF OAKLAND MILLS TALBOTT SPRINGS ELEM. SCHOOL  
**SECTION/AREA:** 411  
**PARCEL NO.:** 283

DEED	L. 643/ F. 62	BLOCK NO.	3	ZONE	NT-09/ PFP-81	TAX/ZONE	36/	ELEC. DIST.	SIXTH	CENSUS TR.	0066.03
WATER CODE	E 03	SEWER CODE	556000								

**SITE DEVELOPMENT PLAN WATER MAIN PROFILE, NOTES, AND DETAILS**  
VILLAGE OF OAKLAND MILLS; SECTION 4, AREA 1  
**TALBOTT SPRINGS ELEMENTARY SCHOOL**  
( GYMNASIUM & ART DEPARTMENT BUILDING ADDITION )  
OPEN SPACE LOT 216; PLAT BOOK 17, FOLIO 54  
TAX MAP No: 36 PARCEL: 283  
SIXTH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: JULY 7, 1999  
SHEET 4 OF 11  
SDP-00-11



# SECTION 20 : STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

**DEFINITION:** Forces that cause erosion. Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the infiltration of rainwater is increased, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat and visual resources.

**PURPOSE:** This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This seeding is to quickly establish vegetative cover for short duration (up to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary soil stockpiles, cleared areas being left idle between construction phases, earth dikes, etc. and for Permanent Seeding are lawns, dams, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc.

**EFFECTS ON WATER QUALITY AND QUANTITY:** Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone. Sediment control devices must remain in place during grading, seeded preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

**SEEDING:** A. Site Preparation  
1. Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.  
2. Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.  
3. Schedule rainfall soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 5 acres.

B. Soil Amendments (Fertilizer and Lime Specifications)  
1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.  
2. Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Nitrate may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall all be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.  
3. Lime materials shall be ground limestone (hydrated or burnt lime may be substituted) which contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 90-100% will pass through a #20 mesh sieve.

4. Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.  
C. Seeded Preparation  
1. Temporary Seeding  
a. Seeded preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than 3:1) shall be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.  
b. Apply fertilizer and lime as prescribed on the plans.  
c. Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.

2. Permanent Seeding  
a. Minimum soil conditions required for permanent vegetative establishment:  
1. Soil shall contain 5.0 to 7.0% organic matter.  
2. Soluble salts shall be less than 500 parts per million (ppm).  
3. The soil shall contain less than 40% clay, but enough fine grained material (30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if legumes or sericea lespedezas is to be planted, then a sandy soil (30% silt plus clay) would be acceptable.  
4. Soil shall contain 1.5% minimum organic matter by weight.  
5. Soil must contain sufficient pore space to permit adequate root penetration.  
6. If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Section 21 Standard and Specification for Topsoil.  
b. Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.

c. Apply soil amendments as per soil test or as included on the plans.  
d. Mix soil amendments into the top 3-5" of soil by disking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Where site conditions will not permit normal seeded preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1-3" of soil should be loose and friable. Seeded loosening may not be necessary on newly disturbed areas.

D. Seed Specifications  
1. All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed shall have been tested within the 6 months immediately preceding the date of sowing such material on this job.  
2. Note: Seed tags shall be made available to the inspector to verify type and rate of seed used.  
3. Incubant - The incubant for treating legume seed in the seed mixtures shall be a pure culture of nitrogen-fixing bacteria prepared especially for the species. Incubants shall not be used later than the date indicated on the container. Add fresh incubant as directed on package. Use four times the recommended rate-stures above 70° F. can weaken bacteria and the incubant less effective, until used. Temperatures above 70° F. can weaken bacteria and the incubant less effective, until used.  
4. Methods of Seeding  
a. Hydroseeding - Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeded by a cultipacker seeder.  
b. If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen maximum of 100 lbs. per acre total of soluble nitrogen P205 (phosphorous) 200 lbs/acre; K2O (potassium) 200 lbs/acre.  
c. Lime - use only ground agricultural limestone. Up to 3 tons per acre may be applied by hydroseeding. Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.  
d. Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without interruption.  
e. This includes use of conventional drop or broadcast spreaders.  
5. Dry Seeding - This seed shall be incorporated into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 265 or 266. The seeded area shall then be rolled with a weighted roller to provide good seed to soil contact.  
6. Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.

7. Drill or Cultipacker Seeding - Mechanized seeders that apply and cover seed with soil.  
a. Cultipacker seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seeded must be firm after planting.  
b. Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.

F. Mulch Specifications (In order of preference)  
1. Straw shall consist of thoroughly threshed wheat, rye or oat straw, reasonable bright in color, and shall not be musty, moldy, alkali decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.  
2. Wood Cellulose Fiber Mulch (WCFM)  
a. WCFM shall consist of specially prepared wood cellulose processed into a uniform fibrous physical state.  
b. WCFM shall be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.  
c. WCFM, including dye, shall contain no germination or growth inhibiting factors.  
d. WCFM materials shall be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material shall form a blotter-like ground cover, on application, having moisture absorption and percolation properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.  
e. WCFM material shall contain no elements or compounds at concentration levels that will be phytotoxic.  
f. WCFM must conform to the following physical requirements: fiber length to approximately 10 mm., diameter approximately 1 mm., pH range of 4.0 to 8.5, ash content of 1.5% maximum and water holding capacity of 30% minimum.

3. Only sterile straw mulch should be used in areas where one species of grass is desired.

G. Mulching Seeded Areas - Mulch shall be applied to all seeded areas immediately after seeding.  
1. If grading is completed outside of the seeding season, mulch alone shall be applied as prescribed in this section to a uniform loose depth of between 1" and 2". Mulch applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch anchoring tool is to be used, the rate should be increased to 2.5 tons/acre.  
2. Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber used in water and the mixture shall contain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons of water.  
3. Securing Straw Mulch (Mulch Anchoring) - Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon size of area and erosion hazard:  
a. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should be used on the contour if possible.  
b. Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 50 pounds/acre. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.  
c. Application of liquid binders should be heavier at the edges where wind catches mulch, such as in valleys and crest of banks. The remainder of area should be applied uniform after binder application. Synthetic binders - such as Acrylic DLE (Agro-Tack), DCA-770 Pterosef, Terra Tax II, Terra Tack AR or other approved equal may be used at rates recommended by the manufacturer to anchor mulch.  
d. Lightweight plastic netting may be stapled over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 15' feet wide and 300' to 3,000' feet long.

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## SEDIMENT CONTROL NOTES

- 1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (33-1959)
- 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERE TO.
- 3) FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, DICES, PERMETERS AND ALL SLOPES STEEPER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 50), SOIL EROSION (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7) SITE ANALYSIS  
TOTAL AREA OF SITE: 10.00 ACRES  
AREA DISTURBED: 0.20 ACRES  
AREA TO BE ROOFED OR PAVED: 0.15 ACRES  
AREA TO BE VEGETATIVELY STABILIZED: 0.09 ACRES  
TOTAL CUT: 500 CU.YDS.  
TOTAL FILL: 500 CU.YDS.  
OFFSITE WASTE/BORROW AREA LOCATION: N/A CU.YDS.
- 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 9) ADDITIONAL SEDIMENTATION CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES. APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- 10) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

## PERMANENT SEEDING NOTES

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:  
**SEEDING PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

**SOIL AMENDMENTS:** APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1,000 SQ.FT. AND 500 LBS. PER ACRE 0-20-20 FERTILIZER (14 LBS./1,000 SQ.FT.) BEFORE SEEDING HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 39-0-0 UREAFORM FERTILIZER (9 LBS./1,000 SQ.FT.) AND 500 LBS. PER ACRE (15 LBS./1,000 SQ.FT.) OF 10-20-20 FERTILIZER.

**SEEDING:** FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3 LBS./1,000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS./ACRE (1.4 LBS./1,000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1,000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 15 THROUGH FEBRUARY 28, PROJECT SITE BY: OPTION (1) - TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING; OPTION (2) - USE SOD; OPTION (3) - SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDED.

**MULCHING:** APPLY 1 TO 2 TONS PER ACRE (10 TO 30 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (5 GAL./1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES, ON SLOPES 8 FEET OR HIGHER USE 340 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING.

**MAINTENANCE:** INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

## TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

**SEEDING PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

**SOIL AMENDMENTS:** APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1,000 SQ.FT.)

**SEEDING:** FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 1.5 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS./ACRE OF WEEPING LOVEGRASS (0.7 LBS./1,000 SQ.FT.) FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROJECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

**MULCHING:** APPLY 1.5 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GAL./1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES ON SLOPES 8 FEET OR HIGHER, 340 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1988 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

## SECTION 21 : STANDARDS AND SPECIFICATIONS FOR TOPSOIL

- 1) DEFINITION: PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.
- 2) PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.
- 3) SPECIFICATIONS:  
A. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND.  
B. TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING SUBSOILS.  
C. TOPSOIL SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.  
D. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" - 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4"; AVOID SURFACE IRREGULARITIES.  
E. PLACE TOPSOIL AND APPLY SOIL AMENDMENTS AS SPECIFIED IN "STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION".  
F. TOPSOIL SHALL NOT BE PLACED DURING FROZEN, MUDDY, OR EXCESSIVELY WET CONDITIONS.
- 4) APPLICATION:

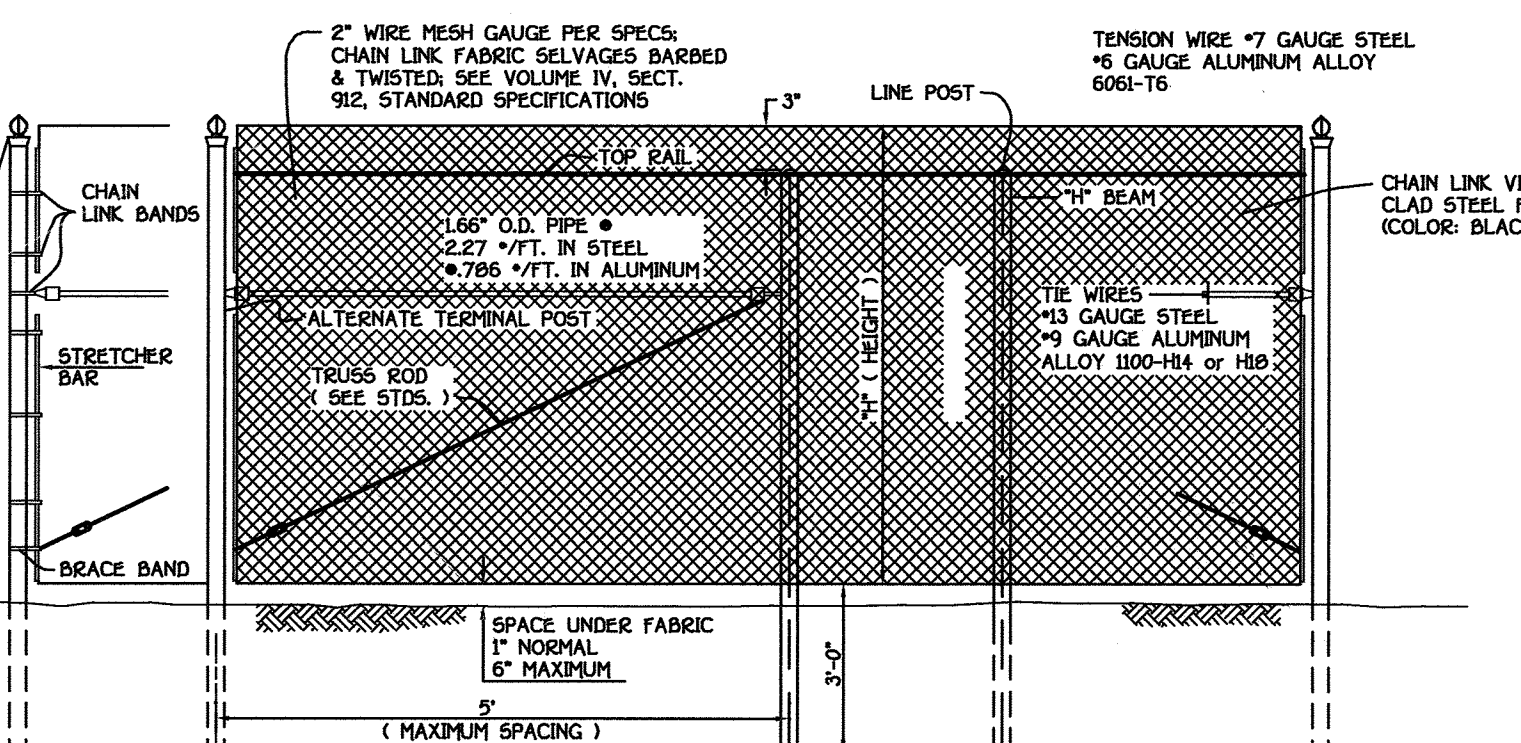
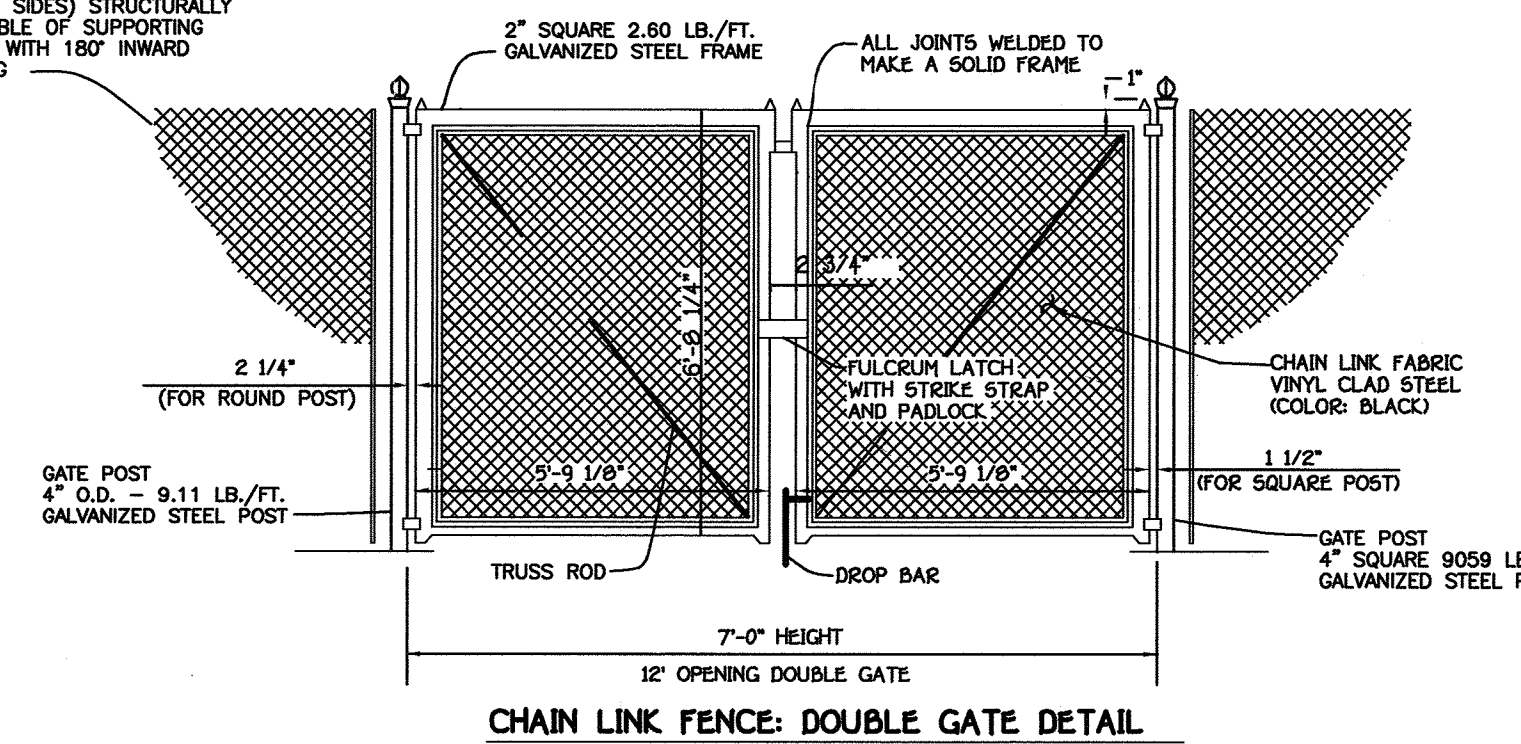
## SEQUENCE OF CONSTRUCTION

1. OBTAIN THE REQUIRED GRADING PERMIT. ( 1 DAY )
2. INSTALL TEMPORARY CONSTRUCTION FENCE. ( 2 DAYS )
3. VISIT THE SITE WITH HOWARD COUNTY FIRE MARSHAL TO MARK ( INTERNALLY & EXTERNALLY ) EXITS DURING SCHOOL CONSTRUCTION. ( 1 DAY )
4. INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS INDICATED ON SITE DEVELOPMENT PLAN SHEETS. ( 2 DAYS )
5. DELIVERY AND INSTALLATION OF CONSTRUCTION TRAILERS IN ACCORDANCE WITH SPECIFICATIONS OF THE ARCHITECT AND CONTRACTOR. ( 1 DAY )
6. REMOVAL OF SIDEWALK, PAVED PLAY AREA, PLAYGROUND EQUIPMENT, ETC. IN ACCORDANCE WITH INFORMATION CONTAINED ON DEMOLITION PLAN - SHEET 1 ( 14 DAYS )
7. CONSTRUCT BUILDING ADDITION, EXISTING SCHOOL RENOVATIONS, PROPOSED UTILITIES, PROPOSED PLAY AREAS, ETC. IN ACCORDANCE WITH THE INFORMATION CONTAINED ON SITE DEVELOPMENT PLANS, SHEETS 2 AND 3. ( 200 DAYS )
8. FINE GRADE AROUND BUILDING ADDITION. ( 1 DAY )
9. REMOVE TEMPORARY CONSTRUCTION FENCE, CONSTRUCTION TRAILERS, ALL DEBRIS, AND CONSTRUCTION MATERIALS FROM SITE. ( 10 DAYS )
10. REMOVE SEDIMENT AND EROSION CONTROL DEVICES AS PERMISSION IS GRANTED BY S & E INSPECTOR. ( 3 DAYS )

## DUST CONTROL SPECIFICATIONS

**DEFINITION:** CONTROLLING DUST BLOWING ON CONSTRUCTION SITES AND ROADS.  
**PURPOSE:** TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF SITE DAMAGE, HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.  
**CONDITIONS WHERE PRACTICE APPLIES:** THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.  
**SPECIFICATIONS:**

- TEMPORARY METHODS**
1. MULCHES- SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.
  2. VEGETATIVE COVER- SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
  3. TILLAGE- TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12" APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
  4. IRRIGATION- THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE RESURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.
  5. BARRIERS- SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.
  6. CALCIUM CHLORIDE- APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.
- PERMANENT METHODS**
1. PERMANENT VEGETATION- SEE STANDARDS FOR PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOD. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
  2. TOPSOILING- COVERING WITH LESS EROSION SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING.
  3. STONE- COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.
- REFERENCES**
1. AGRICULTURE HANDBOOK 346. WIND EROSION FORCES IN THE UNITED STATES AND THEIR USE IN PREDICTING SOIL LOSSES.
  2. AGRICULTURE INFORMATION BULLETIN 354. HOW TO CONTROL WIND EROSION, USDA-ARS.



TYPE	HEIGHT OF FENCE	7'-0"
5\"/>		

**ENGINEER'S CERTIFICATE**  
I certify that this plan for erosion and sediment 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.  
Signature of Engineer (Print name below signature) *John R. Kuhn* Date *7/14/99*

**DEVELOPER'S CERTIFICATE**  
I/We certify that all development and construction will be done according to this plan, and that any 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.  
Signature of Developer (Print name below signature) *John R. Kuhn* Date *7/14/99*

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Chief, Division of Land Development *John R. Kuhn* Date *9/30/99*  
Chief, Development Engineering Division *John R. Kuhn* Date *9/30/99*  
Director, Department of Planning and Zoning *John R. Kuhn* Date *9/30/99*

**OWNER**  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 MARYLAND ROUTE 106  
ELLIOTT CITY, MARYLAND 21042  
(410) 313-6600

**SITE DEVELOPMENT PLAN  
SEDIMENT & EROSION CONTROL  
NOTES AND DETAILS**  
VILLAGE OF OAKLAND MILLS; SECTION 4, AREA 1  
**TALBOTT SPRINGS  
ELEMENTARY SCHOOL**  
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SIXTH ELECTION DISTRICT- HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: JULY 28, 1999  
SHEET 5 OF 11

DEED	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
L. 643/ F. 62	3	NT-OS/ FDP-51	36/	SIXTH	6066.03
WATER CODE	E03	SEWER CODE	5580800		

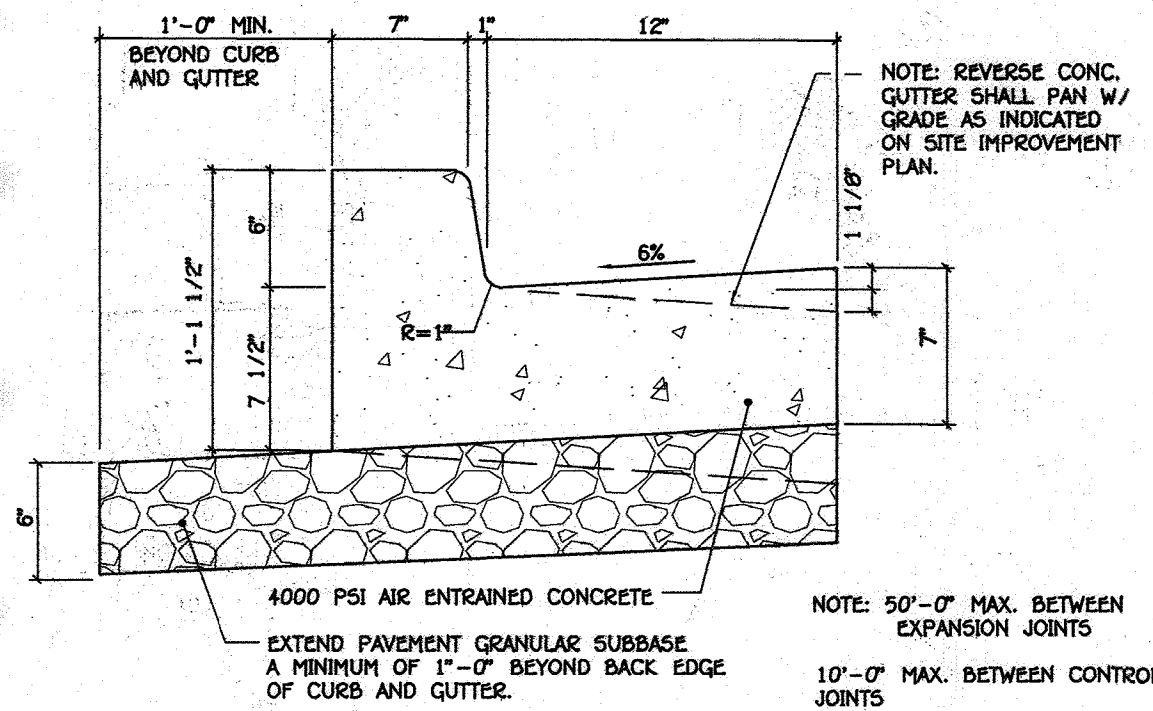
**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK 10772 BALTIMORE NATIONAL PIKE  
ELLIOTT CITY, MARYLAND 21042  
410 461 - 2999

**APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY**  
DATE: *8/26/99*

NO.	REVISION	TOTAL SHEET #	DATE
3	REVISED TOTAL SHEET #	5/30/99	
1	REVISED SHEET NUMBER	4/25/99	
	REVISION		

F.C.C.-4032750PC5





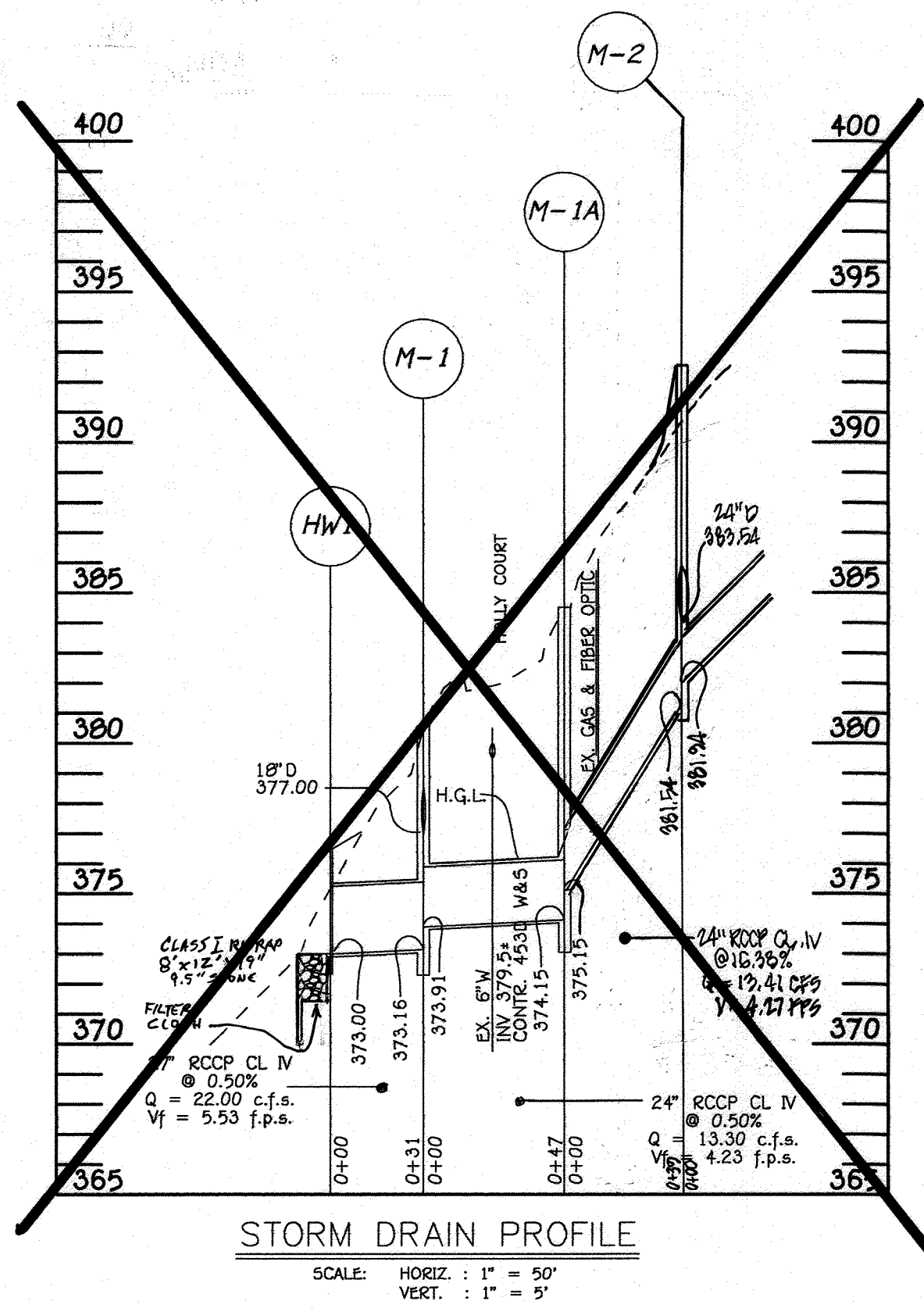
**STANDARD 6" COMB. CONC. CURB AND GUTTER**  
NO SCALE

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-2	PARKING DRIVEABLES: RESIDENTIAL AND NON-RESIDENTIAL WITH MORE THAN 10 HEAVY TRUCKS PER DAY LOCAL ROADS: ACCESS PLACE, ACCESS STREET CUL-DE-SACS: RESIDENTIAL	PAVEMENT MATERIAL (INCHES)		MIN HMA WITH GAB		HMA WITH CONSTANT GAB		
		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)		2.0	2.0	2.0	3.5	2.0
		HMA SUPERPAVE BASE 19.0 MM. PG 64-22, LEVEL 1 (ESAL)		8.0	4.0	3.0	4.0	4.0
		GRADED AGGREGATE BASE (GAB)						

**P-2 PAVING SECTION**  
NO SCALE

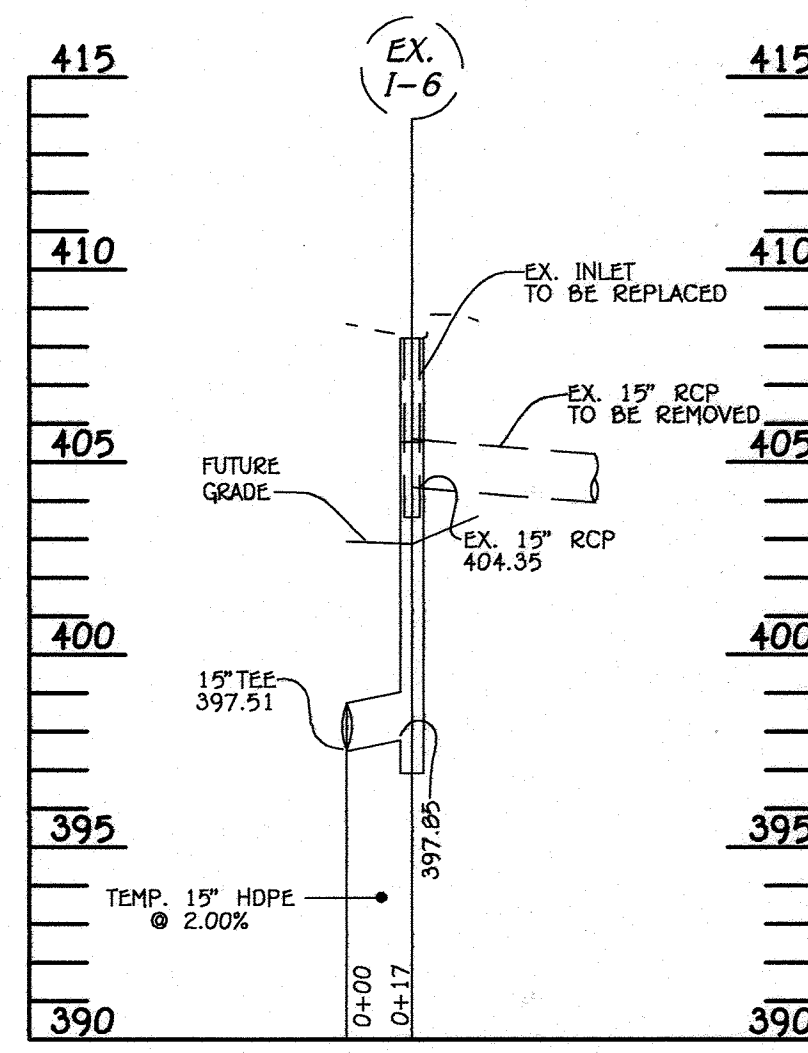
STRUCTURE SCHEDULE									
STRUCTURE NO.	OWNERSHIP AND MAINTENANCE	TOP ELEVATION	INV. IN	INV. OUT	COORDINATES	WIDTH	TYPE	REMARKS	
EX. I-1	PRIVATE	407.95 ***	401.57 (15")	401.47 (15")	N 563190.9 E 1356474.46	5.5'	9 INLET W/ 60" HOPE	D-4.82 & D-4.93	
3+90	PRIVATE	-	401.33 (15")	-	N 563182.60 E 1356475.78	-	15" - 22.5" BEND	HOPE PIPE	
3+50	PRIVATE	-	400.66 (15")	-	N 563143.45 E 1356467.34	-	15" - 22.5" BEND	HOPE PIPE	
3+43	PRIVATE	-	400.55 (15")	-	N 563137.66 E 1356467.34	-	15" - 22.5" BEND	HOPE PIPE	
3+31	PRIVATE	-	400.35 (15")	-	N 563131.29 E 1356453.47	-	15" - 22.5" BEND	HOPE PIPE	
1+48	PRIVATE	-	397.31 (15")	-	N 563098.53 E 1356273.95	-	15" TEE	HOPE PIPE	
EX. I-6	PRIVATE	408.22 ***	-	397.05 (15")	N 562979.19 E 1356277.01	5.5'	18" INLET W/ 18" HOPE	D-4.82 & D-4.93	
M-6	PRIVATE	403.55	394.92 (18")	395.17 (18")	N 563071.91 E 1356128.03	4'	STD. MANHOLE	G - 5.12	
M-7	PRIVATE	400.00	395.82 (18")	393.92 (18")	N 563184.76 E 1356079.66	4'	STD. MANHOLE	G - 5.12	
M-8	PRIVATE	395.82	391.84 (18")	-	N 563351.70 E 1356081.80	4'	STD. MANHOLE	G - 5.12	
M-9	PRIVATE	395.82	391.84 (18")	391.84 (18")	N 563351.70 E 1356081.80	4'	STD. MANHOLE	G - 5.12	
M-10	PRIVATE	395.82	391.84 (18")	391.84 (18")	N 563351.70 E 1356081.80	4'	STD. MANHOLE	G - 5.12	
M-11	PRIVATE	395.82	391.84 (18")	391.84 (18")	N 563351.70 E 1356081.80	4'	STD. MANHOLE	G - 5.12	
M-12	PRIVATE	395.82	391.84 (18")	391.84 (18")	N 563351.70 E 1356081.80	4'	STD. MANHOLE	G - 5.12	

\*\*\* DENOTES GABE ELEVATION



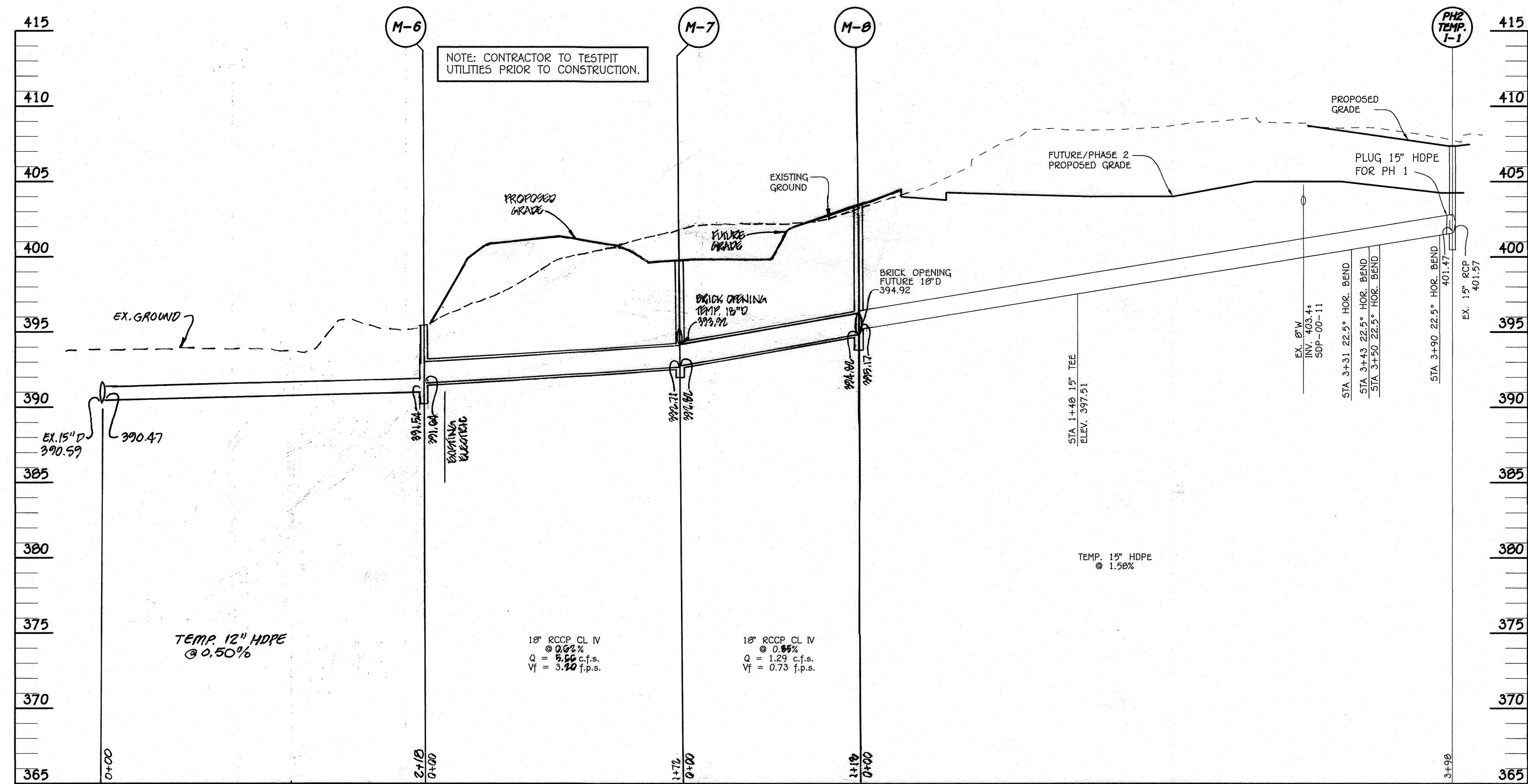
**STORM DRAIN PROFILE**

SCALE: HORIZ. : 1" = 50'  
VERT. : 1" = 5'



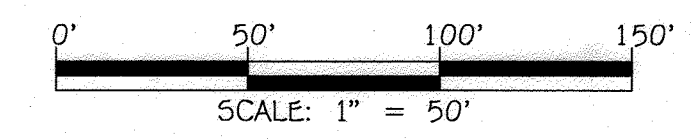
**STORM DRAIN PROFILE**

SCALE: HORIZ. : 1" = 50'  
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**STORM DRAIN PROFILE**

SCALE: HORIZ. : 1" = 50'  
VERT. : 1" = 5'



NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW THE REVISED STORM DRAIN PROFILE AND STRUCTURE SCHEDULE.

**REPLACEMENT 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

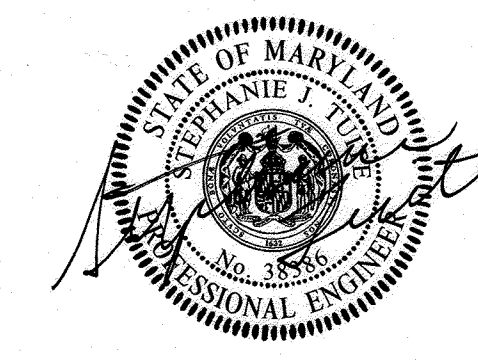
"PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: JANUARY 12, 2020."

*Stephanie J. Tuttle*  
STEPHANIE J. TUTTLE, RLA, P.E., LEED AP BC&D

5/12/20  
DATE

6/28/22	DELETED OUTFALL PROFILE & REVISED PROFILE FOR NEW OUTFALL, REVISED STRUCTURE SCHEDULE
9/14/20	REVISED PROFILE BETWEEN M-1A TO M-6 & STRUCTURE SCHEDULE
9/3/20	REVISED PROFILE FROM M-2 & EX. I-6 TO TEMP. 15" HOPE & REVISED STRUCTURE SCHEDULE
DATE	DESCRIPTION
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i>	6/24/2020 Date
Chief, Department of Planning and Zoning	
<i>[Signature]</i>	6/17/20 Date
Chief, Development Engineering Division	

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
9020 MENDENHALL COURT  
SUITE 'C'  
COLUMBIA, MARYLAND 21045  
Attention: SCOTT WASHINGTON  
410-313-6805



Address Chart	
Parcel Number	Street Address
216	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT	SECTION/AREA
VILLAGE OF OAKLAND MILLS TALBOTT SPRINGS ELEMENTARY SCHOOL OPEN SPACE LOT 216	4/1
PLAT NO.:	BLOCK NO.
L 643/ F. 62	3
ZONE	TAX MAP
OPEN SPACE NEW TOWN	36
ELEC. DIST.	CENSUS TR.
SIXTH	606603
WATER CODE	SEWER CODE
E 03	5508000

**STORM DRAIN PROFILE**  
"REVISED SITE DEVELOPMENT PLAN"  
VILLAGE OF OAKLAND MILLS  
SECTION 4 AREA 1  
TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
OPEN SPACE LOT 216 PLAT BOOK 17, FOLIO 54  
ZONED: NEW TOWN PARCEL Nos.: 283  
TAX MAP No.: 36 GRID No.: 3  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: MAY, 2020  
SHEET 6 OF 11



SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2)

A. SOIL PREPARATION

- 1. TEMPORARY STABILIZATION
A. SEEDING
B. MULCHING
C. TOPSOILING
D. SOIL AMENDMENTS

2. PERMANENT STABILIZATION

- A. SOIL TESTS
B. SOIL PREPARATION
C. TOPSOILING
D. SOIL AMENDMENTS

B. TOPSOILING

- 1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.
2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS.

C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

- 1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE.
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT.

PERMANENT SEEDING NOTES (B-4-1)

A. SEED MIXTURES

- 1. GENERAL USE
A. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDNESS ZONE.
B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHOULDERES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 - CRITICAL AREA PLANTING.

PERMANENT SEEDING SUMMARY

Table with columns: HARDNESS ZONE, SEEDING RATES, FERTILIZER RATE, LIME RATE. Includes sub-table for SEED MIXTURES.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND

STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA (B-4-B)

DEFINITION

THE MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES.

PURPOSE

TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS.

CONDITIONS WHERE PRACTICE APPLIES

STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

CRITERIA

- 1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
2. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL BASED ON A ONE PER CENT (1%) SLURRY FLOW RATE.

MAINTENANCE

THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN A 2:1 RATIO.

STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING (B-4-3)

DEFINITION

THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.

PURPOSE

TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.

CONDITIONS WHERE PRACTICE APPLIES

TO THE SURFACE OF ALL PERIMETER CONTROL, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.

CRITERIA

- A. SEEDING
1. SPECIFICATIONS
2. APPLICATION
3. MULCHING

- 4. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID. THE SITE AND ALL CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY, AND THE NEXT DAY AFTER EACH RAIN EVENT.

- 5. INSPECTION DATE
6. INSPECTION TYPE (ROUTINE, PRE-STORM EVENT, DURING RAIN EVENT)
7. NAME AND TITLE OF INSPECTOR
8. WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED PRECIPITATION)

- 9. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 90 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE CID.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

- A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND

- B) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

DEFINITION

CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.

PURPOSE

TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY.

CONDITIONS WHERE PRACTICE APPLIES

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

SPECIFICATIONS

- 1. PERMANENT VEGETATION - SEE STANDARDS FOR PERMANENT VEGETATIVE COVER AND PERMANENT STABILIZATION WITH SOIL. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
2. TOPSOILING - COVERING WITH LESS EROSION SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING.
3. STONE - COVER SURFACE WITH COARSE STONE OR COARSE GRAVEL.

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT. (1 DAY)
2. NOTIFY MISS UTILITY (1-800-37-7777) 2 WORKING DAYS BEFORE STARTING WORK. NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410-313-1895) AFTER THE FUTURE LIO AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES: A. PRIOR TO THE START OF EARTH DISTURBANCE.

DEFINITION

THE PURPOSE OF THIS PLAN IS TO SHOW THE SEDIMENT CONTROL NOTES AND DETAILS FOR THE INSTALLATION OF UTILITIES.

CONSTRUCTION SPECIFICATIONS

- 1. INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% MINIMUM OPENING) 42 INCHES SECURELY TO THE FENCE POSTS WITH WIRE TIES OR RIVETS.

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SEQUENCE OF CONSTRUCTION

DEFINITION

THE PURPOSE OF THIS PLAN IS TO SHOW THE SEDIMENT CONTROL NOTES AND DETAILS FOR THE INSTALLATION OF UTILITIES.

CONSTRUCTION SPECIFICATIONS

- 1. OBTAIN GRADING PERMIT. (1 DAY)
2. NOTIFY MISS UTILITY (1-800-37-7777) 2 WORKING DAYS BEFORE STARTING WORK. NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410-313-1800) 5 WORKING DAYS BEFORE STARTING WORK, AND NOTIFY THE BALTIMORE GAS ELECTRIC CO. (310-291-5789) FIVE (5) WORKING DAYS BEFORE STARTING WORK.

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ENGINEER'S CERTIFICATE and DEVELOPER'S CERTIFICATE sections with signatures and dates.

Professional certification and site approval text for Charles J. Grovo, Sr., P.E.

Site analysis and SOC (Soil Conservation Order) details for the project.

Department of Planning and Zoning approval and signature of Scott W. Walsh.

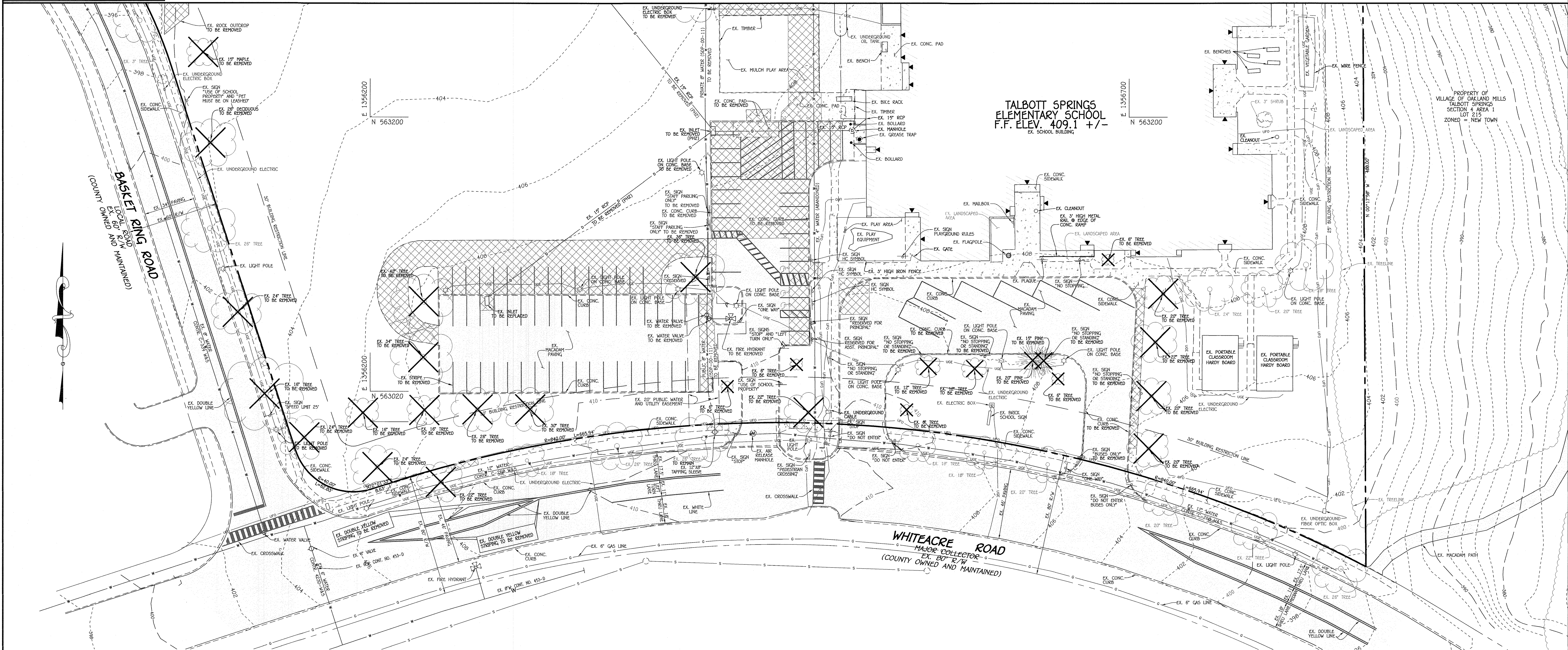
Address chart and parcel information for 216 BASKET RING ROAD.

SEDIMENT AND EROSION CONTROL NOTES AND DETAIL SHEET for the site development plan.



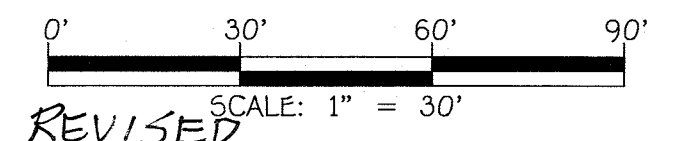
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
S	EXISTING SEWER LINE
D	EXISTING STORM DRAIN LINE
W	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING UNDERGROUND CABLE LINE
---	EXISTING UNDERGROUND FIBER OPTIC
G	EXISTING GAS LINE
X	EXISTING FENCE
---	EXISTING CONCRETE WALK
---	EXISTING MACADAM PAVING
XXX	EXISTING TREE AND SHRUB TO BE REMOVED
---	EXISTING TREELINE
---	APPROX. AREA OF DEMOLITION

FOR CONTINUATION SEE SHEET 9



PLAN  
SCALE: 1" = 30'

NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW THE REVISED APPROXIMATE AREA OF DEMOLITION.

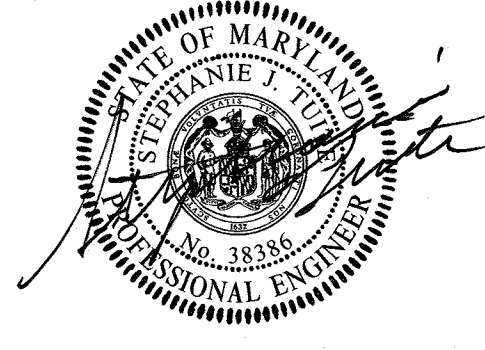


**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461-2899

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: JANUARY 12, 2020."  
*Stephanie J. Nuite*  
 STEPHANIE J. NUITE, R.L.A., P.E., LEED AP BC&D  
 5/22/20  
 DATE

DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i>	4/24/2020 Date
Director, Department of Planning and Zoning	
<i>[Signature]</i>	6/17/20 Date
Chief, Development Engineering Division	

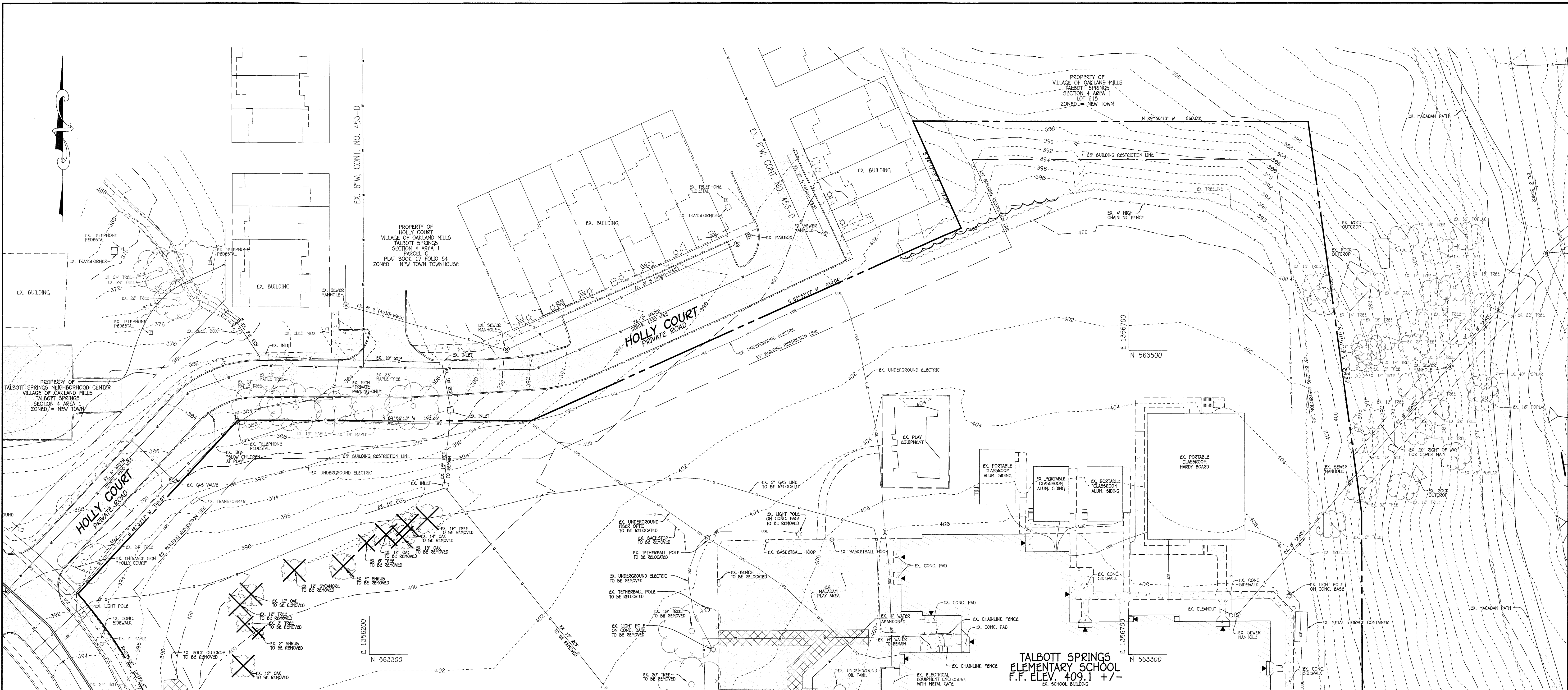
PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 9020 MENDENHALL COURT  
 SUITE "C"  
 COLUMBIA, MARYLAND 21045  
 Attention: SCOTT WASHINGTON  
 410-313-6805



Address Chart	
Parcel Number	Street Address
216	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045
PROJECT: VILLAGE OF OAKLAND MILLS TALBOTT SPRINGS ELEMENTARY SCHOOL OPEN SPACE LOT 216	
PLAT NOS. L. 643/ F. 62	BLOCK NO. 3
ZONE NEW TOWN	TAX MAP 36
ELEC. DIST. SIXTH	CENSUS TR. 606603
WATER CODE E. 03	SEWER CODE 5580800

**DEMOLITION PLAN**  
**"REVISED SITE DEVELOPMENT PLAN"**  
 VILLAGE OF OAKLAND MILLS  
 SECTION 4 AREA 1  
 TALBOTT SPRINGS  
 ELEMENTARY SCHOOL  
 OPEN SPACE LOT 216 PLAT BOOK 17, FOLIO 54  
 ZONED: NEW TOWN PARCEL Nos.: 283  
 TAX MAP No.: 36 GRID No.: 3  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: MAY, 2020  
 SHEET 8 OF 11





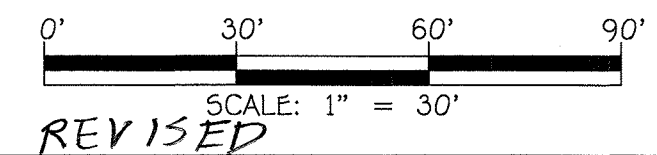
FOR CONTINUATION SEE SHEET 0

PLAN

SCALE: 1" = 30'

SYMBOL	DESCRIPTION
--- 398 ---	EXISTING CONTOUR 2' INTERVAL
--- 400 ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING SEWER LINE
---	EXISTING STORM DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING UNDERGROUND CABLE LINE
---	EXISTING UNDERGROUND FIBER OPTIC
---	EXISTING GAS LINE
-x-x-	EXISTING FENCE
---	EXISTING CONCRETE WALK
---	EXISTING MACADAM PAVING
XXX	EXISTING TREE AND SHRUB TO BE REMOVED
---	EXISTING TREELINE
---	APPROX. AREA OF DEMOLITION

NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW THE REVISED APPROXIMATE AREA OF DEMOLITION.



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 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
 ELKLOTT CITY, MARYLAND 21042  
 (410) 401-2895

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: JANUARY 12, 2022."

*Stephanie J. Tuttle* 5/22/20  
 STEPHANIE J. TUTTLE, R.L.A., P.E., LEED AP BC&D  
 DATE

DATE	DESCRIPTION	REVISION BLOCK
6/24/2020	APPROVED: DEPARTMENT OF PLANNING AND ZONING	
6/24/2020	Director - Department of Planning and Zoning	
6-17-20	Chief, Development Engineering Division	

PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 9020 MENDENHALL COURT  
 SUITE 'C'  
 COLUMBIA, MARYLAND 21045  
 Attention: SCOTT WASHINGTON  
 410-313-6805



Address Chart	
Parcel Number	Street Address
216	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045

PROJECT	SECTION/AREA	PARCEL
VILLAGE OF OAKLAND MILLS TALBOTT SPRINGS ELEMENTARY SCHOOL OPEN SPACE LOT 216	4/1	283

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	OPEN SPACE NEW TOWN	36	SIXTH	606603

WATER CODE	SEWER CODE
E 03	5580800

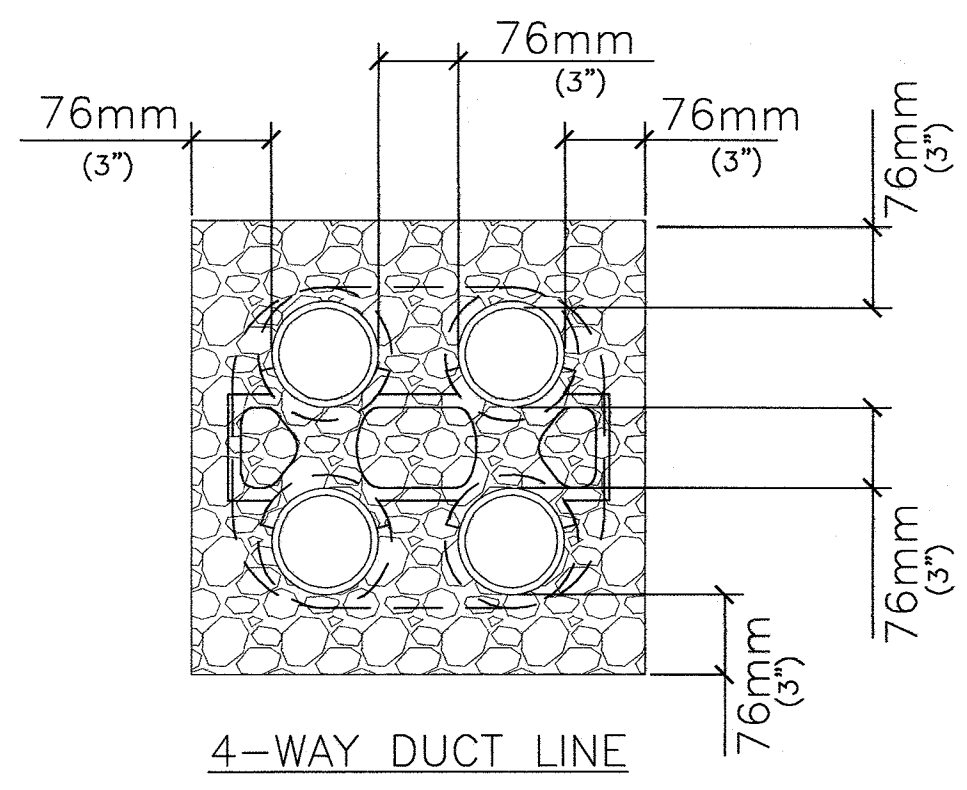
**DEMOLITION PLAN**

**"REVISED SITE DEVELOPMENT PLAN"**  
 VILLAGE OF OAKLAND MILLS  
 SECTION 4 AREA 1  
 TALBOTT SPRINGS  
 ELEMENTARY SCHOOL

OPEN SPACE LOT 216 PLAT BOOK 17, FOLIO 54  
 ZONED: NEW TOWN PARCEL Nos.: 283  
 TAX MAP No.: 36 GRID No.: 3  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: MAY, 2020  
 SHEET 9 OF 11

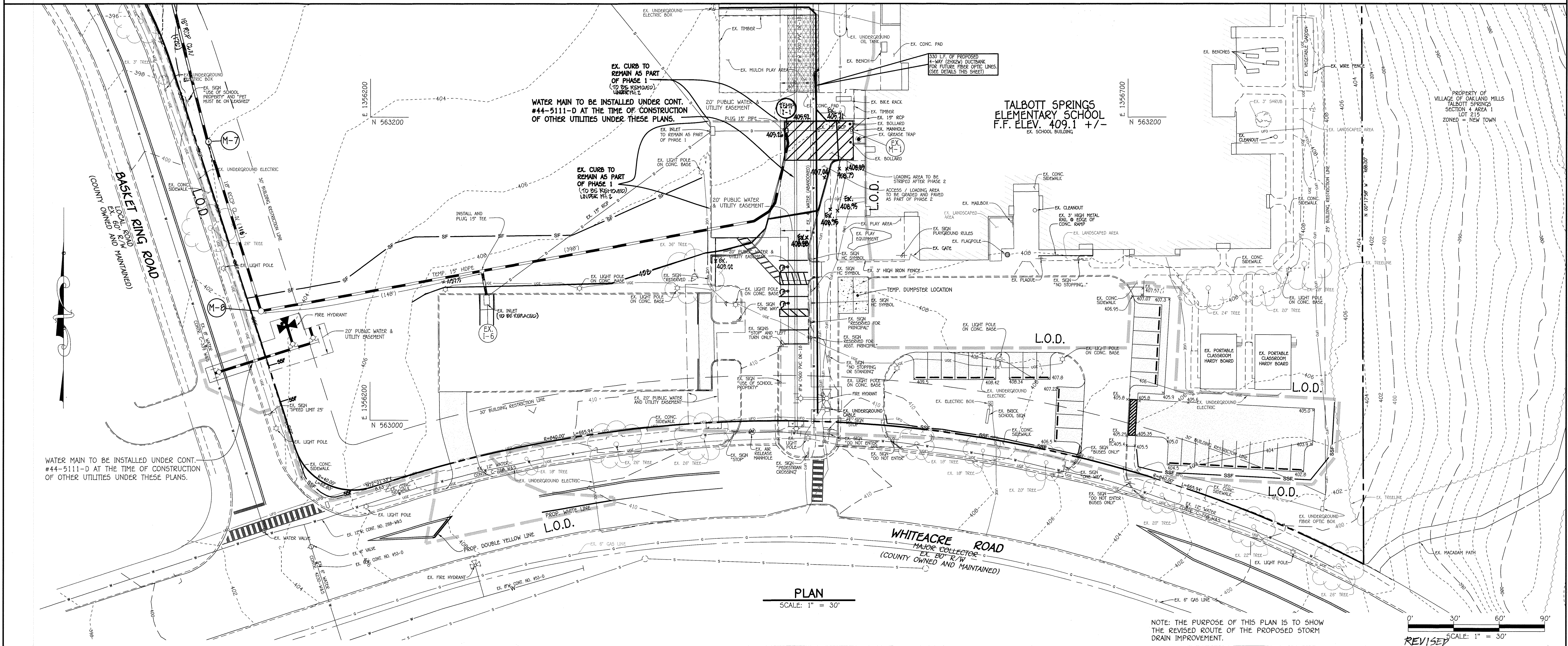


LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
S	EXISTING SEWER LINE
D	EXISTING STORM DRAIN LINE
W	EXISTING WATER LINE
UAC	EXISTING UNDERGROUND ELECTRIC LINE
UCC	EXISTING UNDERGROUND CABLE LINE
UPO	EXISTING UNDERGROUND FIBER OPTIC LINE
G	EXISTING GAS LINE
X-X	EXISTING FENCE
---	PROPOSED CONCRETE WALK
---	PROPOSED MACADAM PAVING
---	EXISTING TREE AND SHRUB
---	EXISTING TREELINE
8" W	PROPOSED PUBLIC WATER
8" W	PROPOSED PRIVATE WATER
18" RCP	PROPOSED STORM DRAIN
---	PROPOSED MULCH (PLAY AREA)
SF	PROPOSED SILT FENCE
SSP	PROPOSED SUPER SILT FENCE
L.O.D.	LIMIT OF DISTURBANCE



- GENERAL NOTES:**
1. PEA GRAVEL FILL FOR TELECOMMUNICATIONS 2 X 2 CONDUIT SYSTEM.
  2. MINIMUM COVER TO TOP OF ENVELOPE SHALL BE 610mm (24") OR AS OTHERWISE SPECIFIED IN SECTION 26 05 41.
  3. PROVIDE MINIMUM 152mm (6") SPACE BETWEEN POWER AND TELECOMMUNICATION DUCTS. INCREASE SIZE AS REQUIRED.
  4. INNERDUCT QUANTITY AND SIZE AS INDICATED ON PLANS.

FOR CONTINUATION SEE SHEET 11



**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 10732 BALDOR NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2095

**ENGINEER'S CERTIFICATE**  
 "I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS AND STANDARDS REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
 Signature: *Stephanie A. Tuite* DATE: 5/22/20  
 SIGNATURE OF ENGINEER DATE

**DEVELOPER'S CERTIFICATE**  
 "I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE."  
 Signature: *John K. Roberts* DATE: 5-27-2020  
 SIGNATURE OF DEVELOPER DATE

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
 Signature: *Stephanie A. Tuite* DATE: 5/22/20  
 STEPHANIE A. TUITE, P.E., R.A., LEED AP BC&D

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Signature: *John K. Roberts* DATE: 5/27/20  
 JOHN K. ROBERTS, DISTRICT ENGINEER  
 HOWARD SOIL CONSERVATION DISTRICT

DATE	REVISION BLOCK
9/14/20	REVISED STORM DRAIN ALIGNMENT FROM M-1A TO M-6, AWAY FROM OFF-SITE TREES
9/3/20	ADD PIPING FROM EX. 1-5 TO TEMP PILE & SIGN CANOPY OF REE STORAGE AREA

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Director - Department of Planning and Zoning DATE: 6/24/2020  
 Chief, Division of Land Development DATE: 6/24/2020  
 Chief, Development Engineering Division DATE: 6.17.20

PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 9020 MENDENHALL COURT  
 SUITE 101  
 COLUMBIA, MARYLAND 21045  
 Attention: SCOTT WASHINGTON  
 410-313-6805

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 No. 38386  
 Stephanie A. Tuite

Address Chart	
Parcel Number	Street Address
216	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045

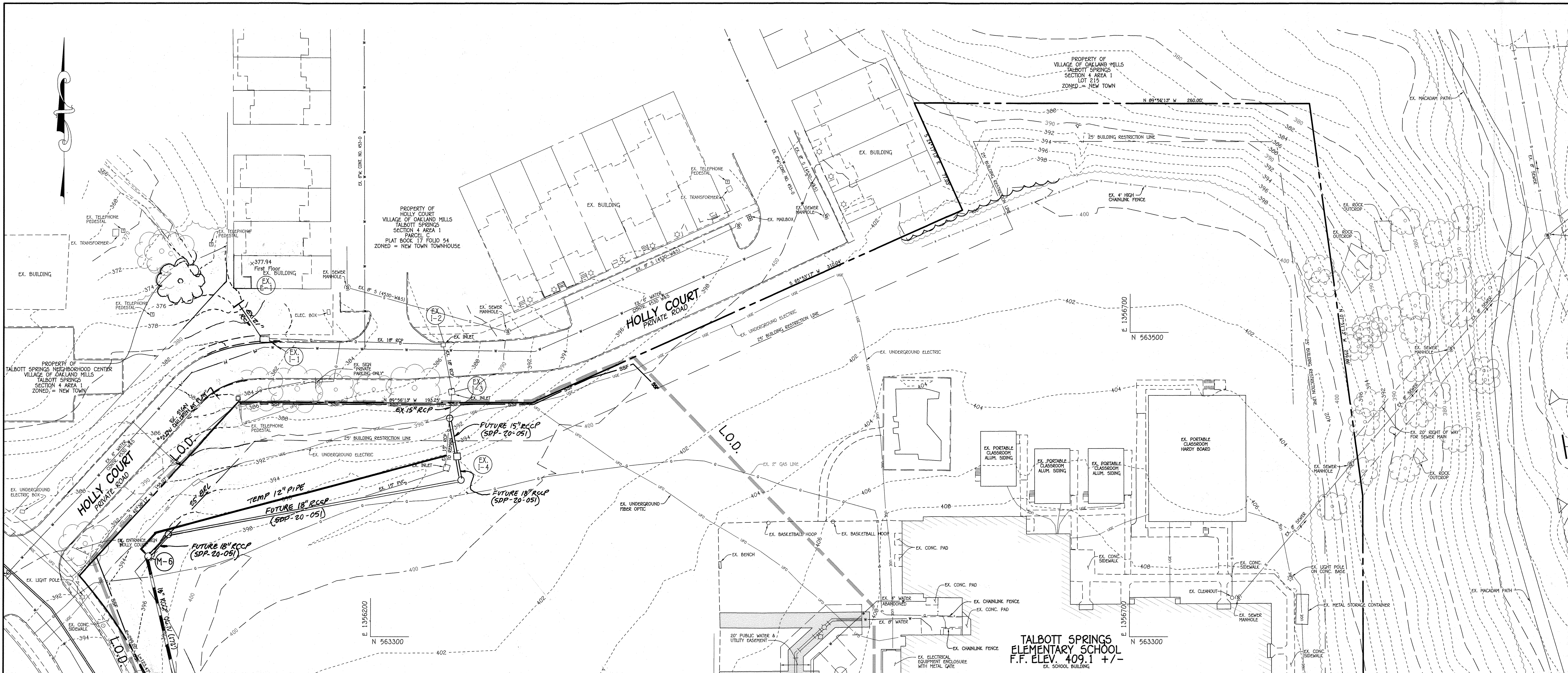
PROJECT	SECTION/AREA	PARCEL
VILLAGE OF OAKLAND MILLS TALBOTT SPRINGS ELEMENTARY SCHOOL OPEN SPACE LOT 216	4/1	283

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	OPEN SPACE NEW TOWN	36	SIXTH	606603

WATER CODE	SEWER CODE
E. 03	5508000

**SITE IMPROVEMENT PLAN**  
**"REVISED SITE DEVELOPMENT PLAN"**  
 VILLAGE OF OAKLAND MILLS  
 SECTION 4 AREA 1  
 TALBOTT SPRINGS  
 ELEMENTARY SCHOOL  
 OPEN SPACE LOT 216 PLAT BOOK 17, FOLIO 54  
 ZONED: NEW TOWN PARCEL Nos.: 283  
 TAX MAP No.: 36 GRID No.: 3  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: MAY, 2020  
 SHEET 10 OF 11





TALBOTT SPRINGS  
ELEMENTARY SCHOOL  
F.F. ELEV. 409.1 +/-  
EX. SCHOOL BUILDING

FOR CONTINUATION SEE SHEET 10

PLAN  
SCALE: 1" = 30'

SYMBOL	DESCRIPTION
--- 398 ---	EXISTING CONTOUR 2' INTERVAL
--- 400 ---	EXISTING CONTOUR 10' INTERVAL
-s-	EXISTING SEWER LINE
-d-	EXISTING STORM DRAIN LINE
-w-	EXISTING WATER LINE
-ue-	EXISTING UNDERGROUND ELECTRIC LINE
-uc-	EXISTING UNDERGROUND CABLE LINE
-uf-	EXISTING UNDERGROUND FIBER OPTIC
-g-	EXISTING GAS LINE
-x-x-	EXISTING FENCE
[Symbol]	PROPOSED CONCRETE WALK
[Symbol]	PROPOSED MACADAM PAVING
[Symbol]	EXISTING TREE AND SHRUB
[Symbol]	EXISTING TREELINE
[Symbol]	PROPOSED PUBLIC WATER
[Symbol]	PROPOSED PRIVATE WATER
[Symbol]	PROPOSED STORMDRAIN
[Symbol]	PROPOSED MULCH (PLAY AREA)
[Symbol]	PROPOSED SILT FENCE
[Symbol]	PROPOSED SUPER SILT FENCE
[Symbol]	L.O.D. LIMIT OF DISTURBANCE

**ENGINEER'S CERTIFICATE**  
 "I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
 Signature: *Stephanie F. Tuite* DATE: 5/22/20  
 SIGNATURE OF ENGINEER DATE

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: JANUARY 12, 2022."  
 Signature: *Stephanie F. Tuite* DATE: 5/22/20  
 STEPHANIE F. TUITE, R.L.A., P.E., LEED AP BC&D

**DEVELOPER'S CERTIFICATE**  
 "I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE."  
 Signature: *James J. Kelly* DATE: 5-27-2020  
 SIGNATURE OF DEVELOPER DATE

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Signature: *John Blanton* DATE: 5/27/20  
 HOWARD SOIL CONSERVATION DISTRICT

DATE	REVISION BLOCK
6/24/22	REVISED STORM DRAINS NEAR SWMP #1
9/14/20	REVISED STORM DRAIN ALIGNMENT & MAPS BETWEEN M-1A TO M-5, AWAY FROM EX. SITE TREE
6/3/20	ADD HW 1, M-1, M-1A & ASSOC. PIPING, ADD GRASSY NEAR OUTLET

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Director: *John Con* DATE: 6/24/2020  
 Chief, Division of Land Development: *John Con* DATE: 6/24/2020  
 Chief, Development Engineering Division: *John Con* DATE: 6.17.20

PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 9020 MENDENHALL COURT  
 SUITE 'C'  
 COLUMBIA, MARYLAND 21045  
 Attention: SCOTT WASHINGTON  
 410-313-6805

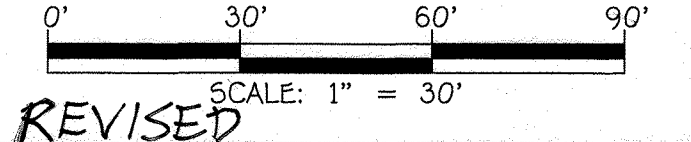
Address Chart	
Parcel Number	Street Address
216	9550 BASKET RING ROAD COLUMBIA, MARYLAND 21045

PROJECT	SECTION/AREA	PARCEL
TALBOTT SPRINGS ELEMENTARY SCHOOL OPEN SPACE LOT #18	4/1	283

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
L 643/ F. 62	3	OPEN SPACE NEW TOWN	36	SIXTH	606603

WATER CODE	SEWER CODE
E. 03	5508000

**SITE IMPROVEMENT PLAN**  
**"REVISED SITE DEVELOPMENT PLAN"**  
 VILLAGE OF OAKLAND MILLS  
 SECTION 4 AREA 1  
 TALBOTT SPRINGS  
 ELEMENTARY SCHOOL  
 OPEN SPACE LOT 216 PLAT BOOK 17, FOLIO 54  
 ZONED: NEW TOWN PARCEL Nos.: 283  
 TAX MAP No.: 36 GRID No.: 3  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: MAY, 2020  
 SHEET 11 OF 11



NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW THE REVISED ROUTE OF THE PROPOSED STORM DRAIN IMPROVEMENT.