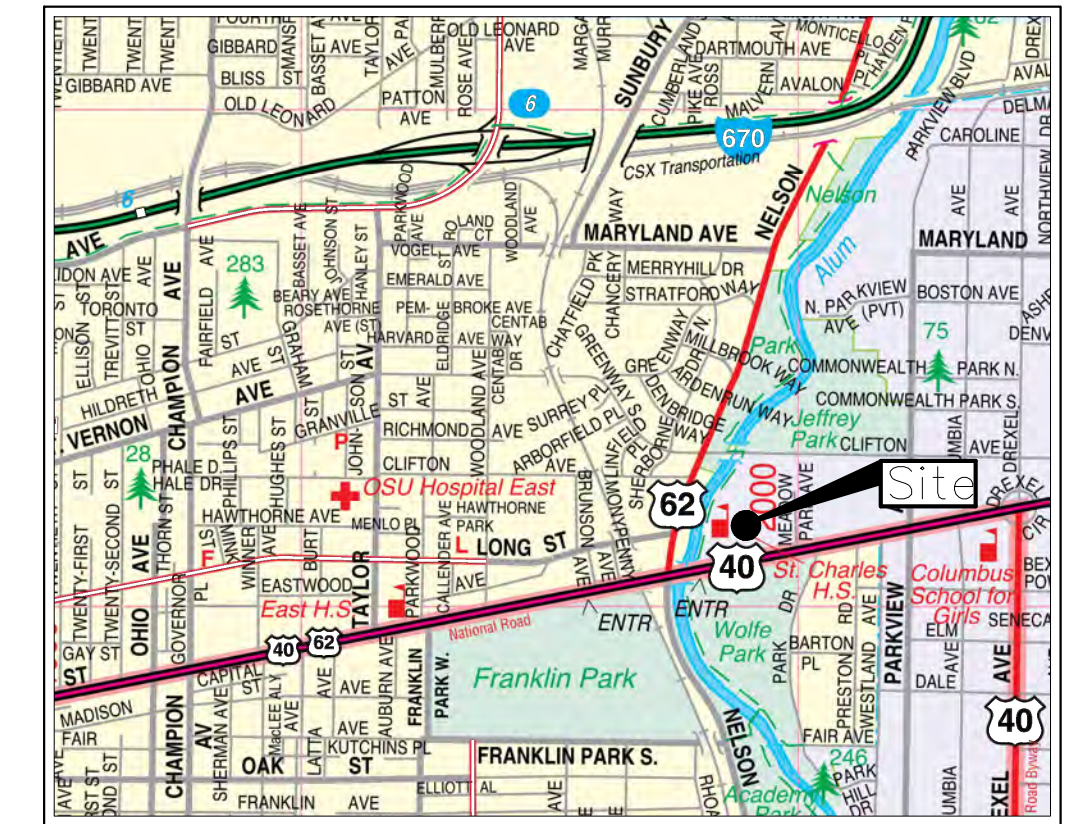


# CITY OF BEXLEY OHIO

# SITE DEVELOPMENT PLAN

## For ST. CHARLES PREPARATORY SCHOOL

### 2020



**LOCATION MAP**  
Not To Scale

**SPECIFICATIONS:** THE CURRENT CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION (ODOT) "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMS AND ODOT CMS RESPECTIVELY) TOGETHER WITH THE REQUIREMENTS OF THE CITY OF BEXLEY, OHIO, INCLUDING ALL SUPPLEMENTS THERETO, IN FORCE ON THE DATE OF THE CONTRACT SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN. IN CASE OF ANY CONFLICT AMONG THESE IDENTIFIED TECHNICAL SPECIFICATIONS, THE GREATER REQUIREMENT SHALL TAKE PRECEDENCE (AS DETERMINED BY THE SOLE DISCRETION OF THE CITY ENGINEER) UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER.

GENERAL PROVISIONS OF THE ODOT AND THE CITY OF COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT NECESSARILY LIMITED TO DIVISION 100 OF THE ODOT AND CITY OF COLUMBUS CMS. ALSO SPECIFICALLY EXCLUDED IS SPECIFICATION SECTION 401.20 "ASPHALT BINDER PRICE ADJUSTMENT" OF THE ODOT CMS.

**ELEVATION DATUM:** ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 88 DATUM.

**BENCHMARKS:** THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES. ANY BENCHMARK, PROPERTY CORNER, OR SURVEY MARKER DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESET BY AN OHIO REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

**SAFETY REQUIREMENTS:** THE CONTRACTOR AND ANY AND ALL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

**CONFINED SPACE ENTRY:** THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FOLLOWING THE OSHA REQUIREMENTS FOR "CONFINED SPACE ENTRY" (CSE), TITLE #29 OF THE FEDERAL REGULATIONS CODE, PART 1910.146, WHILE PERFORMING WORK INSIDE ANY MANHOLE OR OTHER CONFINED SPACE REQUIRING A PERMIT. COPY OF ALL CSE PERMITS SHALL BE GIVEN TO THE CITY UPON PROJECT COMPLETION.

**PERMITS:** THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND GOVERNMENT FEES, LICENSES, AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE IMPROVEMENTS OUTSIDE OF THE CITY OF BEXLEY CORPORATE LIMITS WHERE SHOWN ON THE PLANS.

**NOTIFICATION:** THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT LEAST 48 HOURS IN ADVANCE (HOLIDAYS AND WEEKENDS EXCLUDED) OF THE ANTICIPATED START OF WORK REQUIRING INSPECTION, TESTING, OR APPROVAL BY THE CITY ENGINEER. WORK SHALL NOT COMMENCE UNTIL A PRE-CONSTRUCTION CONFERENCE IS HELD.

THE CONTRACTOR SHALL NOTIFY ALL ADJACENT LANDOWNERS A MINIMUM OF ONE WEEK IN ADVANCE OF WORK NEAR THEIR PROPERTY. THE CONTRACTOR SHALL COORDINATE WITH CITY FOR A SUGGESTED FORMAT FOR THE NOTICE.

**INSPECTION:** THE CITY OF BEXLEY WILL PROVIDE ALL CONSTRUCTION INSPECTION FOR THIS PROJECT. NO WORK SHALL BE COMMENCED UNTIL ARRANGEMENTS HAVE BEEN MADE WITH THE CITY ENGINEER OR SERVICE DIRECTOR FOR INSPECTION SERVICES.

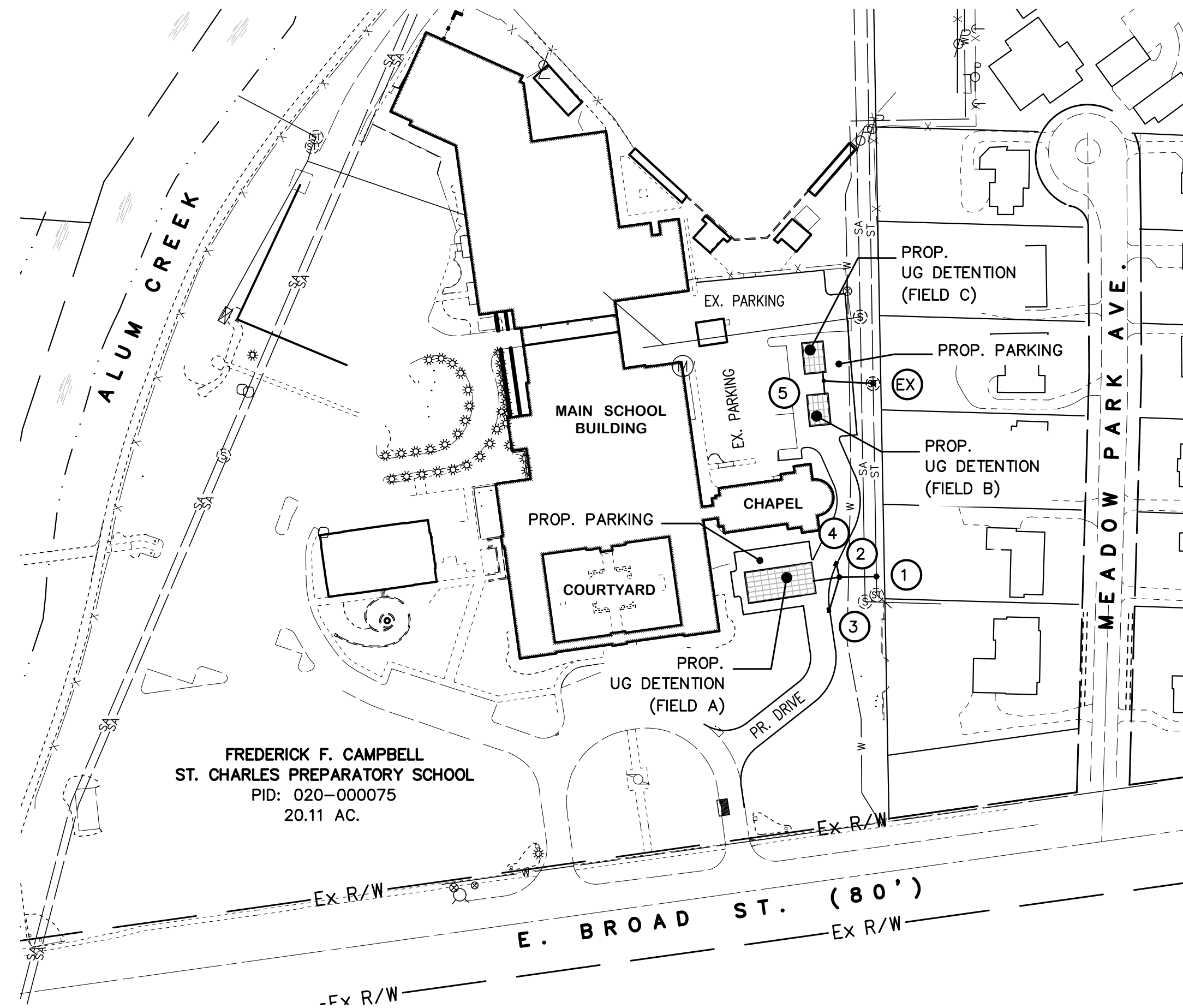
**WORK HOURS:** GENERAL WORK HOURS ON THIS PROJECT SHALL BE 7:30 AM TO 5:30 PM, MONDAY - FRIDAY, WITH THE EXCEPTION BEING LINING OPERATIONS. CERTAIN STREET INTERSECTIONS MAY HAVE WORKING HOUR RESTRICTIONS; FOR THIS INFORMATION, REFER TO THE TRAFFIC NOTES, THIS SHEET.

**UTILITIES:** THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY AS REQUIRED BY SECTION 153.64 OR SECTION 3781.27 OF THE OHIO REVISED CODE. THE CITY OF BEXLEY AND THE ENGINEER ASSUME NO RESPONSIBILITY FOR THE ACCURACY OF LOCATIONS OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. WHEN UNKNOWN OR INDIRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE CITY.

THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT (1-800-362-2764) AT LEAST 48 HOURS, AND NO MORE THAN 10 DAYS PRIOR TO EXCAVATING, WITH SUCH TIME PERIODS NOT INCLUDING WEEKENDS OR HOLIDAYS. CONTRACTOR SHALL SIMILARLY CONTACT ALL UTILITY OWNERS WHO ARE NOT SUBSCRIBERS TO OUPS.

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL PROCEED WITH THE WORK AND PROTECT ALL UNDERGROUND UTILITIES IN A MANNER AT LEAST AS CAUTIOUS AND PROTECTIVE OF SAFETY AND UNDERGROUND UTILITIES AS THOSE METHODS IDENTIFIED IN SECTIONS 3781.25 THROUGH 3781.30 OF THE OHIO REVISED CODE.

ALL PRIVATE UTILITY RELATION (GAS, ELECTRIC, PHONE, ETC.) WILL BE THE RESPONSIBILITY OF THE UTILITY OWNERS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.



FREDERICK F. CAMPBELL  
ST. CHARLES PREPARATORY SCHOOL  
PID: 020-000075  
20.11 AC.

**INDEX MAP**  
SCALE: 1" = 100'

SITE DATA TABLE:	
TOTAL SITE AREA (PRIVATE):	20.11 Ac.
TOTAL DISTURBED AREA:	0.94 Ac.
TOTAL DISTURBED AREA (OFF-SITE):	0.00 Ac.
PRE-DEVELOPED IMPERVIOUS AREA:	9.12 Ac.
POST-DEVELOPED IMPERVIOUS AREA:	9.56 Ac.

**MISCELLANEOUS NOTES**

UTILITIES:  
UTILITIES SHOWN IN THIS PLAN SET ARE AS TAKEN FROM OUPS MARKINGS, EXISTING RECORD MAPS AND OTHER INFORMATION MADE AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE TO INCLUDE IN THE BASE BID ALLOWANCES TO DETERMINE EXISTING UTILITY LOCATIONS AND EXACT ROUTING.

BENCHMARKS			
ID.	ELEVATION	DESCRIPTION	
BM 1	-	-	
BM 2	-	-	

NOTE: ALL BENCHMARKS AND ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD88) UNLESS OTHERWISE NOTED.

HORIZONTAL CONTROL				
	NORTHING	EASTING	ELEVATION	DESCRIPTION
HC1	717782.37	1843377.02	753.70	3/4" ID IRON PIN FOUND
HC2	717511.84	1843382.14	753.04	3/4" IRON PIN FOUND IN CONCRETE

OHIO SOUTH ZONE) HORIZONTAL DATUM: NAD83 (NRS 2011 ADJ.)

SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL FACILITIES - (BMPs REQUIRED)					
CONTROL/OUTLET STRUCTURE NO. (AS REFERENCED ON PLANS)	PLAN VIEW & DETAILS PAGE NUMBERS FOR BMP	CONTROL FUNCTION	DRAINAGE AREA TO CONTROL FACILITY (AC.)	FACILITY TYPE	GREEN INFRASTRUCTURE (S.F.)
MH NO. 2 (AA-S102, MOD.) (DETAIL, SHEET 8)	5, 6, 7, 8	FLOOD CONTROL	0.78 Ac.	ORIFICE PLATE/UG DETENTION	N/A
MH NO. 5 (AA-S102, MOD.) (DETAIL, SHEET 8)	5, 6, 7, 8	FLOOD CONTROL	1.14 Ac.	ORIFICE PLATE/UG DETENTION	N/A

100-YR PONDING DATA				
STR. ID	MAX. PONDING/ SPILLOVER ELEV. (FT)	100 YEAR PONDING STORAGE REQUIRED (CF)	100 YEAR PONDING ELEVATION (FT)	100 YEAR PONDING STORAGE PROVIDED (CF)
MH NO. 2 (AA-S102, MOD.) (DETAIL, SHEET 8)	756.45	4,211	754.35	4,332
MH NO. 5 (AA-S102, MOD.) (DETAIL, SHEET 8)	755.50	4,831	755.50	4,831
<b>SITE</b>		<b>9,042</b>		<b>9,163</b>

**OWNER/DEVELOPER INFORMATION**

FREDERICK F. CAMPBELL  
ST. CHARLES PREPARATORY SCHOOL  
198 E. BROAD ST.  
COLUMBUS, OH 43215  
CONTACT: WILLIAM S. DAVIS  
PH: 614-224-1221  
EMAIL: wdavis@colscdloc.org

**ARCHITECT INFORMATION**

TRIAD ARCHITECTS  
463 N. HIGH ST., SUITE B  
COLUMBUS, OH 43215  
CONTACT: BRENT T. FOLEY  
PH: 614-942-1050  
EMAIL: bfoley@triadarchitects.com

**CIVIL ENGINEER INFORMATION**

E.P. FERRIS & ASSOCIATES, INC.  
880 KING AVENUE  
COLUMBUS, OHIO 43212  
CONTACT: CHAD MACWHINNEY, P.E.  
PHONE: (614) 299-2999  
FAX: (614) 299-2992  
EMAIL: cmacwhinney@epferris.com

STANDARD CONSTRUCTION DRAWINGS	
COC DIVISION OF SEWERAGE & DRAINAGE	CITY OF BEXLEY
AA-S102	AA-S125A
AA-S104	AA-S128
AA-S106	AA-S133A
AA-S107	AA-S141
AA-S112	AA-S145
AA-S117	AA-S149
AA-S119	AA-S150

THE STANDARD CONSTRUCTION DRAWINGS LISTED ABOVE SHALL BE CONSIDERED A PART OF THESE PLANS.

**SHEET INDEX**

- TITLE ..... 1
- GENERAL NOTES..... 2
- EXISTING CONDITIONS PLAN ..... 3
- SWPPP ..... 4
- SITE GRADING PLAN ..... 5
- SITE LAYOUT AND UTILITY PLAN ..... 6
- DETAILS ..... 7
- STORM SEWER PROFILES ..... 8
- LANDSCAPE PLAN ..... 9

REVISIONS			
NO.	DATE	DESCRIPTION	BY



880 KING AVENUE  
COLUMBUS, OHIO 43212  
(614) 299-2999  
(614) 299-2992 (FAX)  
www.EPFERRIS.com

**PRELIMINARY**  
NOT FOR  
CONSTRUCTION  
REVISED 06-26-20

REGISTERED ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

THE SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE PURPOSE AND THE GENERAL LOCATION OF THIS PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

**CITY OF BEXLEY APPROVALS**

MAYOR \_\_\_\_\_ DATE \_\_\_\_\_

DIRECTOR OF PUBLIC SERVICE \_\_\_\_\_ DATE \_\_\_\_\_

CITY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SHEET NO. OF  
1 9

M:\1034003\_StCharles\DWG\Production\Draws\Site Development\Plan\TITLE.dwg --TITLE LAST EDITED BY:CDM ON 6/26/20

**EXPOSE EXISTING UTILITY:** Where potential grade and alignment conflicts might occur with existing utilities, or as specifically called out on the plans (these locations are noted thus: **EXPOSE**, the Contractor shall expose utilities or structure sufficiently in advance of laying pipe for the Engineer to verify the vertical and horizontal effect on the proposed construction. Any discrepancy to the plans shall be coordinated with the City Engineer to ensure that there are no construction or conflict issues associated with existing utilities. The cost of this work shall be included in the unit price bid for the proposed waterline and storm sewer if a specific bid item is not provided in the estimate of quantities.

**CONFLICTS:** In all conflicts in grades between the water main and gravity sewers, the water main shall be lowered during construction, unless otherwise directed by the City Engineer.

**HOUSE SERVICE LINES:** The Contractor shall assume that each house has at least one water and one gas service line unless more are marked by the utility company. It is the Contractor's responsibility to locate and support these service lines. Cost for location and support shall be included in the cost bid for various items. Where service lines are cut or broken, the lines are to be restored to the standards of the utility owner at the Contractor's expense.

**SITE VISIT:** The Contractor shall perform field reconnaissance to become acquainted with the existing site conditions and the potential effects upon the scope of work.

**GRADE CHECKS:** The Contractor shall ensure there is a surveyor's level and rod on the project for use in performing grade checks whenever any structures or pipe are being installed. The Contractor shall make this equipment available for the use of and assist the City Inspector in performing grade checks when requested by the inspector. The inspector will make all reasonable attempts to confine requests for assistance in performing grade checks to a time convenient to the Contractor.

These checks will be performed to ensure the following:  
 Proper placement of each structure.  
 Proper installation of initial runs of pipe from a structure.  
 Grade, after an overnight or longer shutdown.  
 Grade, at any other time the inspector has reason to question grade of installation.  
 A grade check performed by the City Inspector in no way relieves the Contractor of the ultimate responsibility to ensure construction to the plan grade.

**GRADE CHANGES:** If it is determined that the elevation of the existing sewer or existing appurtenance to be connected, differs from the plan elevation or results in a change in the plan sewer slope, the Engineer shall be notified before starting construction of any portion of the proposed sewer, which will be affected by the variance in the existing elevations.

If it is determined that the proposed sewer will intersect an existing sewer or underground utility if constructed as shown on the plan, the Engineer shall be notified before starting construction of any portion of the proposed sewer, which would be affected by the interference with an existing facility.

Grades and elevations shown on the plans shall not be revised under any circumstances without first obtaining written approval from the Engineer. Invert elevations shall not deviate from plan elevations by more than 0.05'. Failing to meet the above requirements is cause for rejection of the affected section of sewer.

**CITY WATER:** The Contractor must obtain from the City of Bexley Water Department a fire hydrant permit prior to connection of their water supply lines to any fire hydrant. The Contractor shall provide all the necessary gate valves, back flow preventers, and flow meter for each hydrant location. All equipment, fittings, and valves shall be in accordance with City of Bexley Standards. The Contractor shall pay for water at the current City Rates.

**INTERRUPTION OF WATER SERVICE:** The Contractor shall give written notice to all affected property owners at least 24 hours, but not more than 72 hours prior to any temporary interruption of water service. Interruption of water service shall be held to a minimum and shall be pre-approved by the City.

**MISCELLANEOUS WORK:** The Contractor shall furnish all labor, materials, tools, equipment, services, and related accessories for a complete project, as shown and described in the plans and specifications. The price for items of work or materials shown on the plans or provided for in the specifications or special provisions for which no specific method of payment is provided, shall be performed by the Contractor and the costs included among the various bid items. Submission of a bid shall be considered evidence that the bidder is satisfied with the plans and conditions, as shown. No additional compensation will be paid to the Contractor for compliance with the plans, specifications, or special provisions.

**SUBSURFACE SOIL DATA:** Subsurface investigations were not taken by the Engineer. It is the responsibility of the Contractor to make his own investigations of subsurface conditions prior to submitting his proposal. Any performance of site subsurface investigations (test holes) shall be coordinated in advance with the City and other bidders will be allowed to observe. Excavated material shall be replaced in a controlled manner to minimize impact on field earthwork.

**RIGHTS-OF-WAY:** In addition to the direct requirements of the contract specifications, the Contractor shall observe and conform to the specific requirements of all Rights-of-Way, including easements, court entries, rights of entry, or action filed in court in accordance with the code of the applicable governing agency. The cost of the operations necessary to fulfill such requirements shall be included in the price bid for the various items of the contract unless specific provision is made in the contract specifications for such cost under specific items of the contract.

**EASEMENTS:** Approval of this plan is contingent on all easements required for the construction of the work being secured and submitted to the City of Bexley for recording prior to commencement of the work, and no work which requires an easement will be allowed to proceed until this has been done.

**WORK LIMITS:** The Contractor is responsible for containing all performed work and all equipment, materials, vehicles, etc., used to complete the work within the rights-of-way of the streets, roadways and permanent easements, as shown on these plans.

The Contractor is responsible for cost of restoration for any area outside of the right-of-way or permanent easement to former condition and to the satisfaction of the Property Owner.

**CONTRACT WORK PERFORMED BY THE CITY:** In the event that it becomes necessary for the City to perform work of an immediate nature (such as the placement of barricades or replacement of signs or other warning or protective devices) required of the Contractor by this contract because of failure or refusal of the Contractor to perform such work, the Contractor shall reimburse the City at the Rate of 2.5 times the actual cost of labor, materials and equipment necessary to perform such work. The City shall be reimbursed by the Contractor by way of a deduction from the Contractor's net payment under the Contract.

**CONVENIENCE FACILITIES:** The Contractor shall furnish and maintain sanitary convenience facilities for the workmen and inspectors for the duration of the work. Cost shall be included in the price bid for the various items.

**MAIL SERVICE:** The Contractor shall be responsible for maintaining mail service in the construction area. Prior to disturbing any mail boxes, the Contractor shall contact the Postal Authorities and shall temporarily relocate mail boxes in accordance with Postal requirements. The Contractor shall restore mail boxes to their original condition and location. Cost to be included in the price bid for the various items.

**TRASH COLLECTION SERVICE:** The Contractor shall contact the City of Bexley for current collection date each week prior to starting work and be responsible for maintaining a 20 foot wide clear area for trash can placement in the front of each lot for trash collection service in the construction area on the designated trash day.

**NON-RUBBER Tired VEHICLES:** No non-rubber tired vehicles shall be moved on City streets. Exceptions may be granted by the City of Bexley where short distances and special circumstances are involved. Granting of exceptions must be in writing, and any damage must be repaired by the Contractor to the satisfaction of the City of Bexley.

**SIGNS, MAILBOXES, FENCES, ETC.:** The Contractor shall be responsible for restoring all signs, mailboxes, fences, guardrail, shrubs, properly, drainage structures, or other physical features disturbed or damaged during construction whether shown on the plans or not to their original location and condition and to the satisfaction of the property owner. Cost to be included in the price bid for the various items.

**PROTECTION OF STREET TREES:** The City of Bexley has been designated as a "Tree City USA" for its' outstanding street tree resources. The Contractor's cooperation is required to prevent damage to existing street trees. Any damages to limbs, bark, roots, etc. shall cause City to retain \$1,000 per occurrence for a period not to exceed two years. If the tree dies as a result of damages, then money retained shall be used to remove and replace the tree. If the tree survives two years past the final completion date of contract then funds will be released. The City's Urban Forester will provide a written report and photographic evidence to support his findings to document all damages. A damaged tree may be removed and replaced anytime prior to the two years at the Forester's sole discretion. If the Contractor believes that he cannot perform the work required by the Contract without damaging the street tree, he shall so notify the City in advance of such work and a release will be provided from these requirements on a case by case basis. All exposed roots shall be neatly cut and trimmed prior to backfill. The roots shall be inspected by the City's Urban Forester prior to backfill.

**PRUNING:** Branches or growth which interferes with the free construction of the project may be removed from trees/bushes that are to be saved by the use of pruning tools with prior approval from the Engineer and City's Urban Forester. All pruning tools used and methods employed shall meet the approval of the Engineer and City's Urban Forester. The branches shall be removed with a good clean cut made flush with the parent trunk or if having a good healthy lateral branch, the cut shall be a good clean slanting cut close to and beyond the healthy branch. All pruning cuts shall be painted with an accepted pruning preservation. The cost of all work and expenses connected with tree pruning shall be included in the price bid for CMSC Item 201, Clearing and Grubbing. No extra payment shall be made.

Trees damaged or destroyed that were not designated for removal or approved by the Engineer for removal shall be replaced at the Contractor's expense.

**STANDARD TOPSOIL, SEEDING, FERTILIZER, AND MULCHING:** All topsoil shall be of the highest quality and free of all stones, trash and other deleterious materials greater than 1/4". Organic content shall be tested by an approved lab and certified to be between 10-20% by weight, and all topsoil shall be saturated with water and allowed to settle prior to seeding. Settled areas shall be refilled and saturated again prior to seeding. The grades shall match all existing landscape and any improvements completed under this plan. The Contractor shall scarify the soil surface to open the soil prior to seeding. All seeding, fertilizer, and mulch shall be placed within 5 working days of placing topsoil. The seeding and fertilizer mixes shall be as specified by the City and shall be installed per the manufacturer's recommendations. The starter-fertilizer mix shall contain a minimum of 3% Siduron, to prevent weed establishment. No weeds or undesirable grasses will be accepted in the final inspection. If the initial seeding is not 95% established by September 15th, the Contractor shall re-seed, fertilize, and mulch the bare areas prior to October 1st.

**DEWATERING:** The Contractor is solely responsible to the Ohio Department of Natural Resources (O.D.N.R.) for registry, maintenance, and abandonment of any withdrawal devices used in the construction of this project.

Installation of any well, well point, pit or other device used for the purpose of lowering the groundwater level to facilitate construction of this project shall be properly abandoned in the provisions of Section 3745-9-10 of the Ohio Administrative Code or as directed by the Director or his representatives.

The Contractor shall be required to complete and file a Well Log and a Drilling Report Form with O.D.N.R., Division of Water, within 30 days of the completion of installation of any well, well point, pit or other device used for the purpose of removing groundwater from an aquifer, in accordance with Sections 1521.01 and 1521.05 of the Ohio Revised Code. In addition, any such facility that has a capacity to withdraw waters of the State in an amount greater than 100,000 gallons per day from all sources shall be registered by the Contractor with the Chief of the O.D.N.R., Division of Water, within three months of the completion of the facility in accordance with Section 1521.16 of the Ohio Revised Code. Copies of the necessary paperwork can be obtained at O.D.N.R., Division of Water, Fountain Square, Columbus, OH, 43224-1387 - (614) 265-6171.

The Contractor shall furnish and operate suitable pumping equipment of such capacity, adequate to dewater the trench, should water be encountered. The trench shall be sufficiently dewatered so that the placement of bedding and the laying and joining of pipe is made on firm, dry ground. If dewatering cannot produce acceptable subgrade, and only as directed by the Engineer, unsuitable materials shall be removed and replaced by CMSC Item 906, stone foundation.

The Contractor shall convey all trench water to a natural drainage channel or storm sewer without damage to property. The Contractor shall be responsible to place and maintain the necessary sediment control measures to filter the dewatering discharge. Cost for the above shall be included in the bid price for the sanitary sewer improvements.

The cost of any dewatering operations required for the construction of the sanitary sewer shall be included in the price bid for the various sewer items.

**REPLACEMENT OF DRAIN TILES AND STORM SEWERS:** All drain tile and storm sewers damaged, disturbed, or removed as a result of the Contractor's operations shall be replaced with the same quality pipe or better, maintaining the same gradient as existing. Replaced drain tile shall be laid on compacted bedding equal in density to surrounding stratum. Replacement shall be done at the time of the backfill operation. Cost of this work to be included in the price bid for the various items.

**MAINTAIN DRAINAGE:** The flow in all sewers, drains, and watercourses encountered shall be maintained by the Contractor at his own expense, and whenever such watercourses and drains are disturbed or destroyed during the prosecution of the work, they shall be restored by the Contractor at his own cost and expense, unless specific provision is made within the Contract Documents for the measure of and payment for such cost specific items, to a condition satisfactory to the Engineer.

**INLET PROTECTION:** The Contractor is responsible to keep all storm sewer inlets protected from excessive amounts of sediments using adequate filtering devices as approved by the City.

**EROSION & SEDIMENTATION CONTROL:** The Contractor shall provide sediment control at all points where storm water runoff leaves the project including waterways, overland sheet flow, and storm sewers. Erosion and sediment control shall be provided as per the requirements of the City of Bexley and the Standards and Specifications of the "Rainwater and Land Development" manual of the ODNR.

Erosion control measures are to be installed per NPDES permit regulations or as directed by the City Engineer, and are to be maintained until such time that they are no longer required by the permit and the City Engineer. Cost for erosion and sedimentation control shall be included in the price bid for CMSC Item 207.

All land disturbing activities shall be subject to inspection and site investigation by the City of Bexley and/or the Ohio EPA. Failure to comply with these regulations is subject to legal enforcement action.

The Contractor is responsible to notify the City of Bexley 48 hours prior to commencement of initial site land disturbance on any site of one or more acres. This includes site clearing, grubbing and any earth moving. Primary erosion and sediment control practices are mandated by regulations to be in place from the beginning of the construction activity.

**SOIL STOCKPILES:** The Contractor shall be responsible for keeping all soil stockpiles, including trench excavation stockpiles, protected from erosion. The areas surrounding the stockpiles are to be protected from sediment with the use of perimeter control devices such as earth or straw bale devices or silt fences. These perimeter control devices shall be maintained for the duration of the project.

**DISPOSAL OF EXCESS EXCAVATION:** The Contractor shall dispose of all excess excavation at such location off the project site as approved by the Engineer. The Contractor shall provide a copy of the signed, written agreement between the Contractor and the off-site Landowner before such disposal occurs. This written agreement shall clearly state the purpose of the agreement and indicate the landowner's permission for such use.

**CONSTRUCTION DEBRIS:** The Contractor shall be responsible for the immediate cleanup of any debris, mud or dirt tracked or spilled on City and/or public streets or private drives whether inside or outside the project area. The Contractor is responsible for the cost of any services contracted and/or completed by the City of Bexley in the clean up of any tracking or spillage anytime during project construction. The Engineer may require the Contractor to perform weekly street and site clean up if excessive amounts of dirt and debris are left along the street. This may include removal by sweeping, power cleaning, or manual methods. The cost of this work shall be included in the various contract items, unless otherwise specified.

**CLEAN UP:** All debris, rubble, unusable materials, and items not salvaged by the Owner shall become the property of the Contractor and shall be removed from the site by the Contractor and disposed of properly.

**MAINTENANCE OF TRAFFIC NOTES:** All temporary traffic control devices shall be furnished, erected, maintained and removed by the Contractor in accordance with the Ohio Manual of Traffic Control Devices for Construction and Maintenance Operations (current edition), copies of which are available from the Ohio Dept. of Transportation, Bureau of Traffic, 1980 West Broad St., Columbus, OH 43223.

Steady-burning, Type "C" lights shall be required on all barricades, drums, and similar traffic control devices in use at night. Cones are NOT approved for use at night.

All trenches within the road right-of-way shall be backfilled or securely plated during non-working hours.

Access to all properties within the project area shall be maintained at all times.

Two-way, one-lane traffic shall be maintained during construction operations in accordance with page C-18 of the Ohio Manual. A uniformed officer may be substituted for each flagman shown on that page at the Contractor's expense.

Police Officers are not needed, unless a hazard develops, for two-way, one-lane traffic maintained during construction operations on all roadways within the project area. If a hazard develops, an officer may be assigned by the City to the project at the Contractor's expense.

All permanent traffic controls not in conflict with the temporary traffic controls shall be maintained through this project by the Contractor. Permanent traffic controls may be temporarily relocated by the Engineer. The Contractor shall assume all liability for missing, damaged, and improperly placed signs.

Any work done by the City, including installation, relocations, removal and/or replacement of permanent traffic control devices as a result of work done by the Contractor or as a result of the negligence of the Contractor shall be at the expense of the Contractor.

**TRENCH BACKFILL:** Trenches within the road right of way and/or pavement, including all sidewalks, are to be filled with Compacted Granular Backfill (ODOT No. 4 Aggregate or 304 Aggregate or approved equal). All other trenches can be filled and compacted as per native backfill compacted to a minimum of 95% standard proctor, unless otherwise shown on the plans.

**COMPACTED GRANULAR BACKFILL:** Shall be granular material, conforming to 703.01 No. 4 coarse aggregate or item 304, as directed by the Engineer compacted as stipulated in item 912.03. In all cases granular material shall be used around all manholes, structures and cleanouts.

Aggregate for bedding is No. 57 or No. 8, as per Item 703.

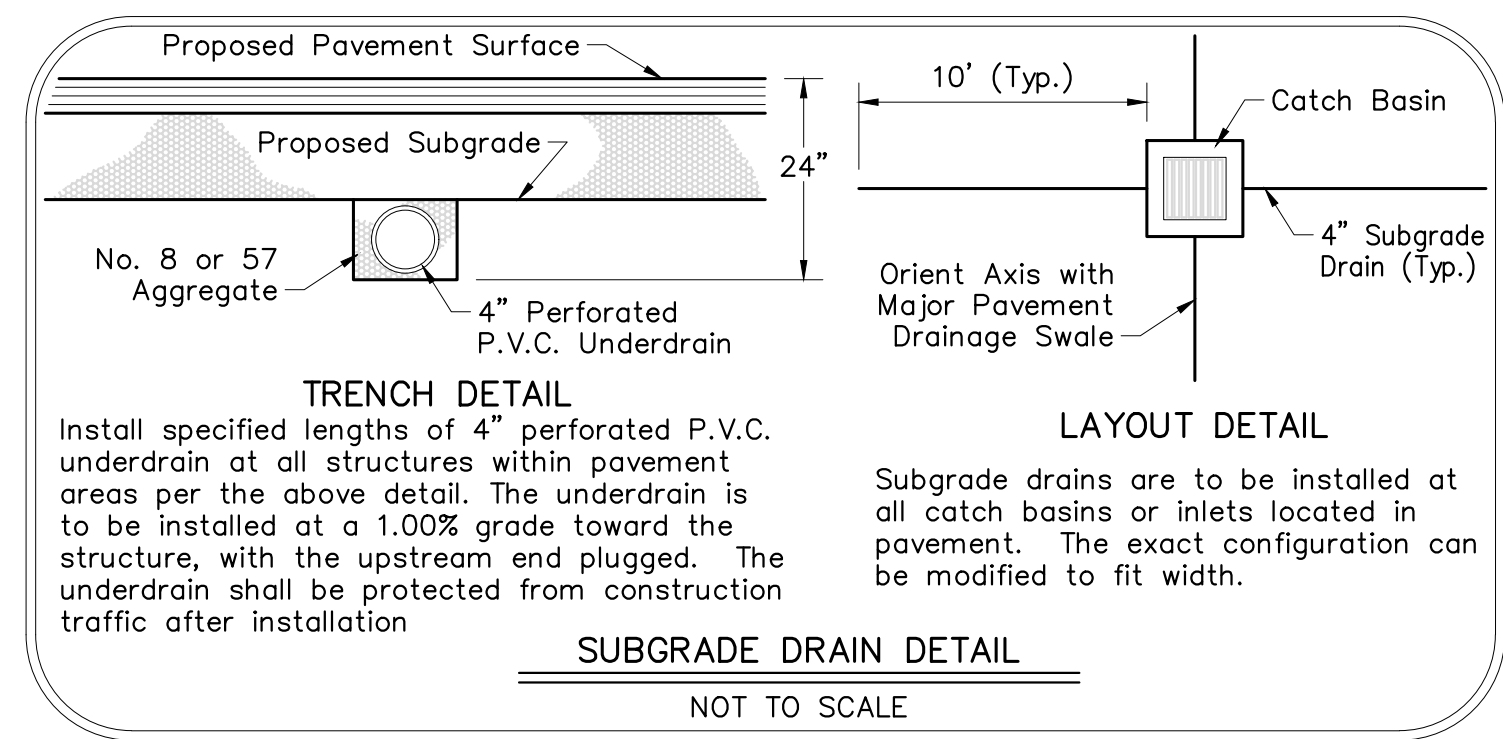
The excavated trench width twelve inches (12") above the conduit may be increased without extra compensation.

**TRENCHES:** All trenches shall be maintained as safe as possible by the Contractor at all times and backfilled as soon as practical. All trenches during non-working hours require traffic plates if not backfilled.

ESTIMATE OF QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
201	LUMP	SUM	CLEARING AND GRUBBING
202	69	SY	PAVEMENT REMOVED
202	2	EA	CATCH BASIN REMOVED
202	47	LF	PIPE REMOVED, 8"
202	2	EA	BOLLARD REMOVED
202	115	SF	CONCRETE PAD REMOVED
207	1	EA	CONCRETE WASHOUT AREA
207	615	LF	FILTER FABRIC FENCE
207	3	EA	INLET PROTECTION
207	1	EA	STABILIZED CONSTRUCTION ENTRANCE
252	355	LF	FULL DEPTH PAVEMENT SAWING
259	25	CY	PERMANENT PAVEMENT
407	152	GAL	TACK COAT
441	105	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE I, (448), PG64-22, 1-1/2"
441	29	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, (448), PG64-22, 1-1/2"
441	128	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, (448), PG64-22, 2-1/2"
604	1	EA	STANDARD CATCH BASIN (AA-S133B)
604	1	EA	MANHOLE, TYPE 'C' (AA-S102)
604	1	EA	MANHOLE, TYPE 'E' (AA-S104)
604	2	EA	STANDARD CURB & GUTTER INLET (AA-S125A)
604	1	EA	ORIFICE PLATE, 2.7" (AA-S145)
604	1	EA	ORIFICE PLATE, 6.5" (AA-S145)
605	80	LF	4" PIPE UNDERDRAIN (SUBGRADE DRAIN)
609	1,015	LF	CURB, STRAIGHT 18"
642	612	LF	REMOVAL OF PAVEMENT MARKING
644	1,125	LF	PARKING LOT STALL MARKING
644	168	LF	TRANSVERSE LINES
901	145	LF	8" PIPE, ROOF DRAINS
901	175	LF	12" STORM PIPE, W/ TYPE I BEDDING
915	7	EA	CLEANOUT (DOWNSPOUTS)
SPEC	1	LS	STORMTECH SC-470 UNDERGROUND DETENTION SYSTEM, COMPLETE
SPEC	1	EA	DEBRIS SNOOT

**NOTE:** THE QUANTITIES HAVE BEEN ESTABLISHED AS A MEANS FOR THE ENGINEER TO ESTIMATE A PRELIMINARY COST AND FOR THE CITY OF COLUMBUS TO ESTABLISH INSPECTION FEES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE REQUIRED BID QUANTITIES NECESSARY FOR THE COMPLETION OF THE PLAN IMPROVEMENTS.

THE SPECIFIC PRODUCTS SPECIFIED IN THESE DOCUMENTS CAN BE SUBSTITUTED WITH AN EQUIVALENT ALTERNATIVE PRODUCT IF APPROVED BY THE ENGINEER OF RECORD AND THE CITY OF COLUMBUS. IT IS THE CONTRACTORS RESPONSIBILITY TO PAY ALL FEES ASSOCIATED WITH REVISIONS TO THE PLANS, ENGINEERING DRAWING OR CALCULATION CHANGES, AND JURISDICTIONAL REVIEW (LOCAL, STATE, AND/OR FEDERAL) IF THE PLANS HAVE BEEN SIGNED BY THE CITY OF BEXLEY OR ARE SUBSTANTIALLY COMPLETE/REVIEWED.



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REVISIONS	DATE	BY	CHK.

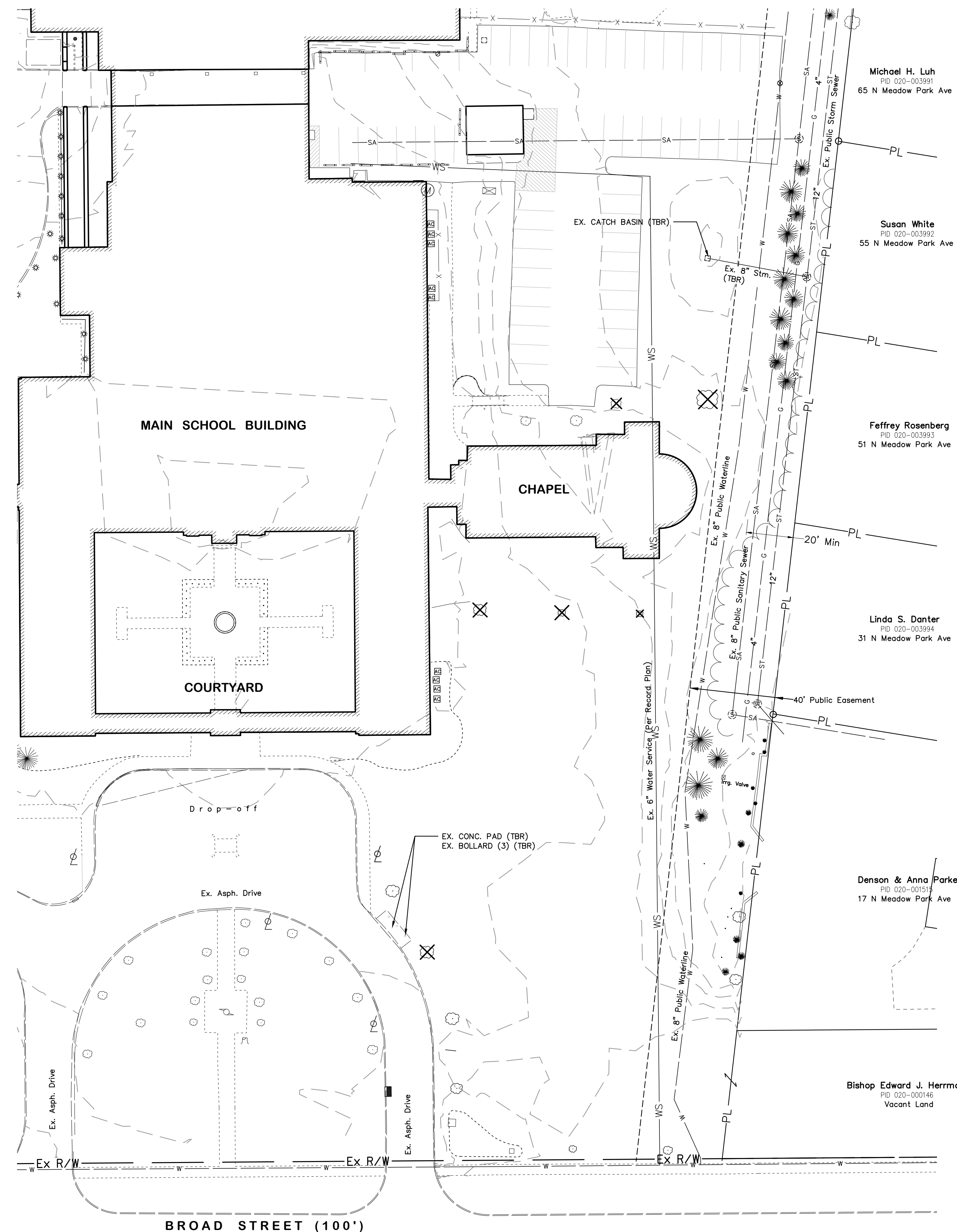
**E. P. FERRIS**  
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<p><b>CITY OF BEXLEY</b></p> <p><b>ST. CHARLES PREPARTORY SCHOOL</b></p> <p><b>2010 E. BROAD STREET</b></p>	<table border="1"> <tr><td>JOB NO.</td><td>1034.003</td></tr> <tr><td>DESIGNED BY:</td><td>CDM</td></tr> <tr><td>DRAWN BY:</td><td>CDM</td></tr> <tr><td>CHECKED BY:</td><td>MEF</td></tr> <tr><td>APPROVED BY:</td><td>_____</td></tr> <tr><td>DATE:</td><td>06-26-20</td></tr> </table>	JOB NO.	1034.003	DESIGNED BY:	CDM	DRAWN BY:	CDM	CHECKED BY:	MEF	APPROVED BY:	_____	DATE:	06-26-20	<p><b>GENERAL NOTES</b></p>	<table border="1"> <tr><td colspan="2">SCALE:</td></tr> <tr> <td>SHEET NO.</td> <td>OF</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">9</td> </tr> </table>	SCALE:		SHEET NO.	OF	2	9
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**LEGEND**

- PL — PROPERTY LINE
- R/W — EX. RIGHT-OF-WAY
- PR. R/W — PR. RIGHT-OF-WAY
- L/A R/W — LIMITED ACCESS RIGHT-OF-WAY
- — ROADWAY CENTERLINE
- — EDGE OF PAVEMENT/BACK OF CURB
- — EDGE OF DRIVEWAYS
- — EX CENTERLINE OF DITCH
- — MISC. EASEMENTS
- — JURISDICTIONAL BOUNDARY
- SCPZ — STREAM CORRIDOR PROTECTION ZONE
- — EX. IRON PIN FOUND
- — EX. IRON PIPE FOUND
- ⊕ — EX. FIRE HYDRANT
- ⊗ — EX. WATER SERVICE VALVE
- ☐ — EX. PULL BOX
- ☼ — EX. TREE
- ☼ — EX. TREE TO BE REMOVED
- — EX. LANDSCAPE ROCK
- ⊕ — EX. SANITARY MANHOLE
- ☐ — EX. CATCH BASIN
- ⊕ — EX. STORM MANHOLE
- — EX. STORM CURB INLET
- ☐ — EX. HEADWALL
- ⊕ — EX. UTILITY POLE
- ⊕ — EX. LIGHT POLE
- ☐ — EX. UNDERGROUND TELEPHONE PEDESTAL
- ☐ — EX. MAILBOX
- ⊕ — EX. SIGN
- ⊕ — EX. SURFACE DRAIN
- ⊕ — EX. SOIL BORING
- ⊕ — EX. SUBSURFACE UTILITY EXPLORATION
- — EX. TREE LINE
- — EX. GUARDRAIL
- X — EX. CHAIN LINK FENCE
- — EX. WOOD FENCE
- W — EX. WATER LINE
- WS — EX. WATER SERVICE
- WS (PLAN) — EX. WATER SERVICE (LOCATION PER RECORD PLAN)
- T — EX. UNDERGROUND TELEPHONE
- G — EX. GAS
- — EX. STORM
- SA — EX. SANITARY
- CMS — EX. COMBINED SEWER
- E — EX. UNDERGROUND ELECTRIC
- OHE — EX. OVERHEAD ELECTRIC
- OHL — EX. OVERHEAD STREET LIGHTING
- L — EX. UNDERGROUND STREET LIGHTING
- FO — EX. FIBER OPTIC
- — PR. CATCH BASIN
- ⊕ — PR. STORM MANHOLE
- — PR. STORM CURB INLET
- ⊕ — PR. SANITARY MANHOLE
- ST — PR. STORM SEWER
- DS — PR. DOWNSPOUT LINE
- — PR. SANITARY
- SS — PR. SANITARY SERVICE
- W — PR. WATER
- WS — PR. WATER SERVICE
- FS — PR. FIRE SERVICE
- G — PR. GAS LINE
- C — PR. TELECOM
- ⊕ — PR. WATER VALVE
- ↺ — PR. CLEAN-OUT
- ↺ — PR. FLOOD ROUTE
- ↺ — PR. DRAINAGE FLOW DIRECTIONAL ARROW
- — PR. CONSTRUCTION LIMITS
- TBR — TO BE REMOVED
- TBA — TO BE ABANDONED
- TBRL — TO BE RELOCATED
- ATG — ADJUST TO GRADE
- DND — DO NOT DISTURB
- AB — ABANDONED
- CL — CENTERLINE
- ↗ — OWNERSHIP HOOK SYMBOL



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2010 E. BROAD STREET

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**EXISTING CONDITIONS PLAN**

SCALE:  
1" = 30'

SHEET NO.	OF
3	9

**EROSION/SEDIMENT/DUST CONTROL CONSTRUCTION PRACTICES**

UTILIZE EROSION AND SEDIMENT CONTROL PRACTICES PER THE SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS AND THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL. EROSION CONTROL DEVICES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND UNTIL THE CONSTRUCTION AREA HAS BEEN PERMANENTLY STABILIZED. THE CONTRACTOR SHALL CONSULT WITH SOIL CONSERVATION SERVICE AND THE ENGINEER CONCERNING PROPER EROSION AND SEDIMENT PRACTICES.

STOCKPILED TOPSOIL AND EXCAVATED MATERIAL IS TO BE PROTECTED THROUGH THE USE OF TEMPORARY SEEDING, OR COVERED WITH ANCHORED STRAW MULCH.

FINAL GRADING WILL BE CONSISTENT WITH PRE-CONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS.

REMOVE ONLY THOSE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED TO PERMIT ACTUAL CONSTRUCTION. PROTECT THE REMAINING TO PRESERVE THEIR AESTHETIC AND EROSION CONTROL VALUE.

BACKFILL TRENCHES IMMEDIATELY AFTER COMPACTION. SEED AND MULCH TRENCHES WITHIN TWO WEEKS AFTER TRENCHES ARE OPENED.

SILT FROM CONSTRUCTION OPERATIONS SHALL NOT BE PERMITTED TO ENTER THE STORM DRAIN SYSTEM, WATERWAYS (NATURAL OR MAN-MADE), OR ADJACENT PRIVATE PROPERTY. CONSTRUCTION OCCURRING NEAR STORM DRAIN INLETS OR WATERWAYS (NATURAL OR MAN-MADE) SHALL REQUIRE EROSION CONTROL MEASURES, SUCH AS SILT FENCE AND STRAW BALE BARRIERS, TO PREVENT SILT FROM ENTERING THE STORM DRAIN, WATERWAYS (NATURAL OR MAN-MADE) OR ADJACENT PRIVATE PROPERTY.

ALL EROSION/SEDIMENT/DUST CONTROL PRACTICES SHALL BE PERFORMED AS RECOMMENDED BY THE SOIL CONSERVATION SERVICE PUBLICATION "ODNR'S RAINWATER AND LAND DEVELOPMENT MANUAL".

**STABILIZATION OF DENUDEED AREAS**

DENUDEED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN SEVEN DAYS OF DISTURBANCE. IF THIS IS NOT POSSIBLE, STABILIZATION SHALL BE APPLIED WITHIN 14 DAYS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDEED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION SHALL ALSO BE APPLIED WITHIN SEVEN DAYS TO DENUDEED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WHICH WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS.

**SEDIMENT CONTROLS**

STORM WATER RUNOFF FROM DENUDEED AREAS SHALL PASS THROUGH A SEDIMENT BASIN OR OTHER SUITABLE SEDIMENT TRAPPING FACILITY. THESE CONTROLS SHALL BE SELECTED AND LOCATED AS DIRECTED BY THE ENGINEER.

**CONSTRUCTION ACCESS ROUTES**

MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, OR ONTO PUBLIC ROADS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFF-SITE TRACKING OF SEDIMENTS BY VEHICLES, EQUIPMENT, AND WORKERS IS MINIMIZED.

**SLOUGHING AND DUMPING**

NO SOIL, ROCK, DEBRIS OR ANY OTHER MATERIAL SHALL BE DUMPED OR PLACED INTO A WATER RESOURCE OR INTO SUCH PROXIMITY THAT IT MAY READILY SLOUGH, SLIP, OR ERODE INTO A WATER RESOURCE UNLESS SUCH DUMPING OR PLACING IS AUTHORIZED BY THE ENGINEER. UNSTABLE SOILS PRONE TO SLIPPING OR LAND SLIDING SHALL NOT BE GRADED, EXCAVATED, FILLED OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS DONE IN ACCORDANCE WITH A QUALIFIED PROFESSIONAL ENGINEER'S RECOMMENDATIONS TO CORRECT, ELIMINATE OR ADEQUATELY ADDRESS THE PROBLEMS.

**NOTE:**

STREET CLEANING, AS NEEDED, IS REQUIRED THROUGHOUT THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND MANUAL (IF NECESSARY) REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.

THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.

ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.

**MAINTENANCE AND INSPECTION**

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DESIGNED AND CONSTRUCTED TO MINIMIZE MAINTENANCE REQUIREMENTS. THEY SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE AND INSPECTION OF ALL EROSION/SEDIMENT CONTROL DEVICES REQUIRED BY THE ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. INSPECTION SHALL BE PERFORMED AS PRESCRIBED IN THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) GENERAL PERMIT. INSPECTIONS SHALL BE PERFORMED BY THE CONTRACTOR, IN THE PRESENCE OF THE ENGINEER ONCE EVERY 7 CALENDAR DAYS AND/OR WITHIN 24 HOURS AFTER ANY RAIN EVENT OF GREATER THAN 0.5 INCHES IN A 24 HOUR PERIOD. THESE INSPECTIONS SHALL IDENTIFY AREAS CONTRIBUTING TO STORM WATER DISCHARGES ASSOCIATED WITH THE PROJECT, EVALUATE THE ADEQUACY, IMPLEMENTATION, AND MAINTENANCE OF EXISTING AND PROPOSED EROSION/SEDIMENTATION MEASURES; AND DETERMINE WHETHER ADDITIONAL MEASURES ARE REQUIRED.

ACCEPTABLE INSPECTION REPORTS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER, IF REQUESTED, WITHIN 48 HOURS OF INSPECTION COMPLETION. THE REPORT SHALL CONTAIN THE RESULTS OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PLAN, A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE PLAN, AND IDENTIFICATION OF ANY INCIDENTS OF NON-COMPLIANCE.

**POLLUTION PREVENTION PLAN AVAILABILITY AND UPDATES**

THE OWNER SHALL BE SOLELY RESPONSIBLE TO ENSURE THE IMMEDIATE AVAILABILITY OF THE POLLUTION PREVENTION PLAN ON-SITE. THE OWNER SHALL ALSO BE SOLELY RESPONSIBLE TO PERFORM ALL UPDATES AND AMENDMENTS TO THE POLLUTION PREVENTION PLAN.

**EROSION AND SEDIMENT CONTROL**

LAND DISTURBANCE AREAS LESS THAN ONE ACRE AND NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT ARE NOT REQUIRED TO SUBMIT TO THE CITY OF COLUMBUS A FULL SCALE EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL. HOWEVER, THE PROPOSED LAND DISTURBING ACTIVITIES MUST COMPLY WITH ALL OF THE PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATIONS. ALL LAND DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF BEXLEY TO DETERMINE COMPLIANCE WITH CITY STANDARDS AND REGULATIONS. FAILURE TO COMPLY WITH THESE REGULATIONS MAY SUBJECT THE SITE TO ENFORCEMENT ACTION BY THE CITY.

SITE CONTACT: ST. CHARLES PREPARATORY SCHOOL  
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EMAIL: JLOWER@SCPREP.ORG

**ESTABLISHMENT OF PERMANENT VEGETATION**

PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE ENGINEER, IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE ADVERSE WEATHER CONDITIONS.

**SEEDING AND MULCHING:**

1. TEMPORARY SEEDING SHALL CONSIST OF ANNUAL RYE-GRASS AS PER ITEM 207. SEED AND MULCHING SHALL BE APPLIED IN ACCORDANCE WITH ITEM 659.
2. PERMANENT SEEDING AND MULCHING SHALL BE TREATED IN ACCORDANCE WITH ITEM 659.

**TIMING OF SEDIMENT-TRAPPING PRACTICES**

SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT EARTH-DISTURBING ACTIVITY. SETTLING FACILITIES, PERIMETER CONTROLS AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING OR CONSTRUCTION AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RE-STABILIZED. THESE CONTROLS SHALL BE SELECTED AND LOCATED AS DIRECTED BY THE ENGINEER.

NOTE: LOCATIONS SHOWN FOR SEDIMENT FILTERING BARRIERS ARE SUGGESTED LOCATIONS; THE FINAL AND MOST APPROPRIATE LOCATION FOR THESE DEVICES SHALL BE APPROVED BY THE ENGINEER, BASED ON SITE CONDITIONS AND OBSERVED TOPOGRAPHY. PROPER IMPLEMENTATION, INSTALLATION, MAINTENANCE, AND REPAIR OF SEDIMENT FILTERING BARRIERS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

**OUTFLOWS FROM DEWATERING OPERATIONS**

ALL WATER PRODUCED FROM CLEANING AND DEWATERING OPERATIONS, WHETHER SPECIFICALLY FROM TRENCH DEWATERING OPERATIONS OR FROM MORE EXTENSIVE DEWATERING OPERATIONS, SHALL BE DISCHARGED IN SUCH A MANNER AS TO ELIMINATE EROSION FROM SUCH A DISCHARGE BY DIVERTING THE WATER THROUGH ONE OR MORE FILTER FENCES. PRIOR TO PUMPING, THE ENGINEER SHALL APPROVE THE INSTALLATION OF THE FILTER FENCE.

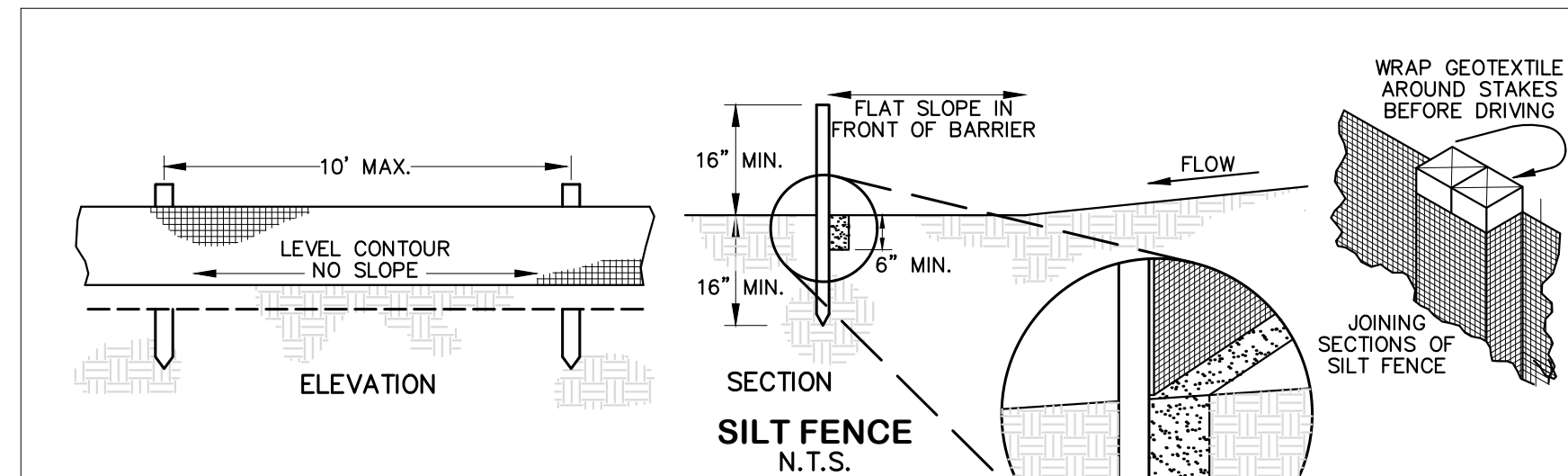
**ADDITIONAL CONTROLS**

THE CONTRACTOR SHALL ENSURE THAT NO SEDIMENTS ARE TRACKED OFF-SITE BY CONSTRUCTION EQUIPMENT, VEHICLES, AND WORKERS. THE CONTRACTOR SHALL ALSO ENSURE THAT NO OTHER SOLID (OTHER THAN SEDIMENT) OR LIQUID WASTE IS DISCHARGED INTO ANY STORM WATER FLOW.

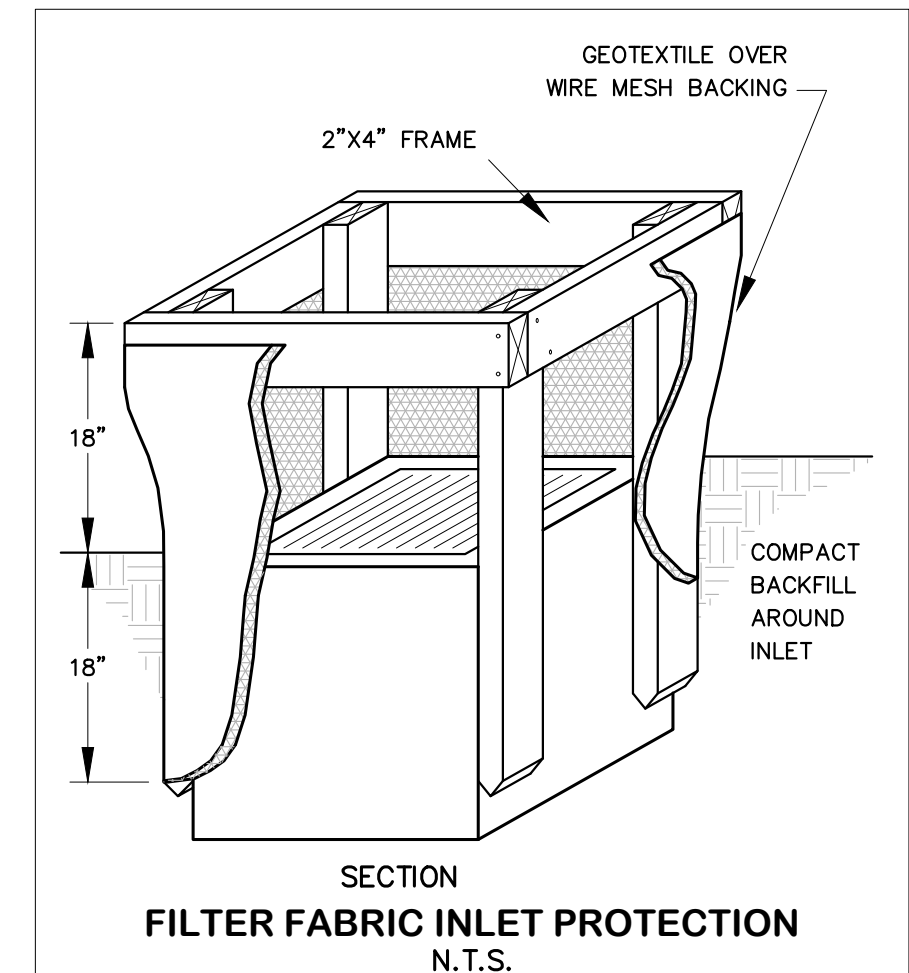
**PROHIBITED CONSTRUCTION ACTIVITIES**

THE CONTRACTOR SHALL NOT USE CONSTRUCTION PROCEEDINGS, ACTIVITIES, OR OPERATIONS THAT MAY UNNECESSARILY IMPACT THE NATURAL ENVIRONMENT OR THE PUBLIC HEALTH AND SAFETY. PROHIBITED CONSTRUCTION PROCEDURES, ACTIVITIES, OR OPERATIONS INCLUDE BUT ARE NOT LIMITED TO:

1. DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.
2. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.
3. PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM DRAINS.
4. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
5. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF A STREAM.
6. DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
7. DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.
8. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
9. STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED BY THE ENGINEER FOR SAID PURPOSES.

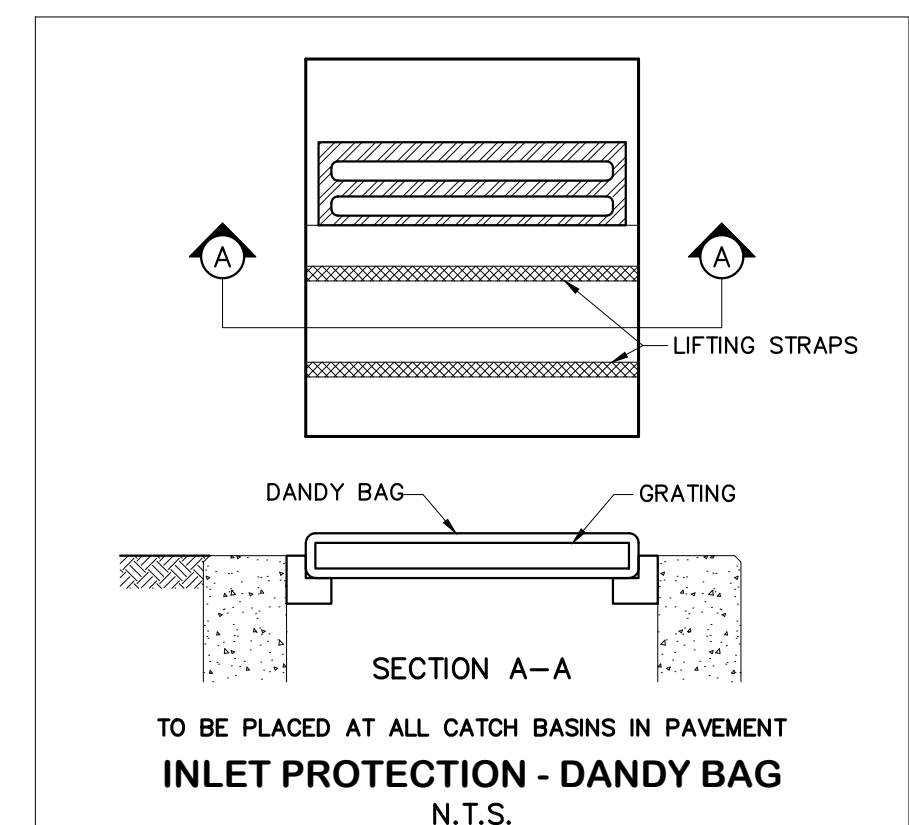


1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
  2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
  3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
  4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
  5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
  6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
  7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
  8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
  9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND. (SEE DETAILS).
  10. MAINTENANCE-SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1)THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2)ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3)OTHER PRACTICES SHALL BE INSTALLED.
- SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.
- SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.
- CRITERIA FOR SILT FENCE MATERIALS
1. FENCE POST - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND. WHERE POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
  2. SILT FENCE FABRIC - SEE CHART BELOW.
- | FABRIC PROPERTIES              | VALUES           | TEST METHOD |
|--------------------------------|------------------|-------------|
| MINIMUM TENSILE STRENGTH       | 120 LBS. (535 N) | ASTM D 4632 |
| MAXIMUM ELONGATION AT 60 LBS   | 50%              | ASTM D 4632 |
| MINIMUM PUNCTURE STRENGTH      | 50 LBS (220 N)   | ASTM D 4833 |
| MINIMUM TEAR STRENGTH          | 40 LBS (180 N)   | ASTM D 4533 |
| APPARENT OPENING SIZE          | 0.84 MM          | ASTM D 4751 |
| MINIMUM PERMITTIVITY           | 1X10-2 SEC.-1    | ASTM D 4491 |
| UV EXPOSURE STRENGTH RETENTION | 70%              | ASTM G 4355 |
- NOTE: THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE IN LINEAR INSTALLATIONS. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER PER ODEPA REQUIREMENTS.

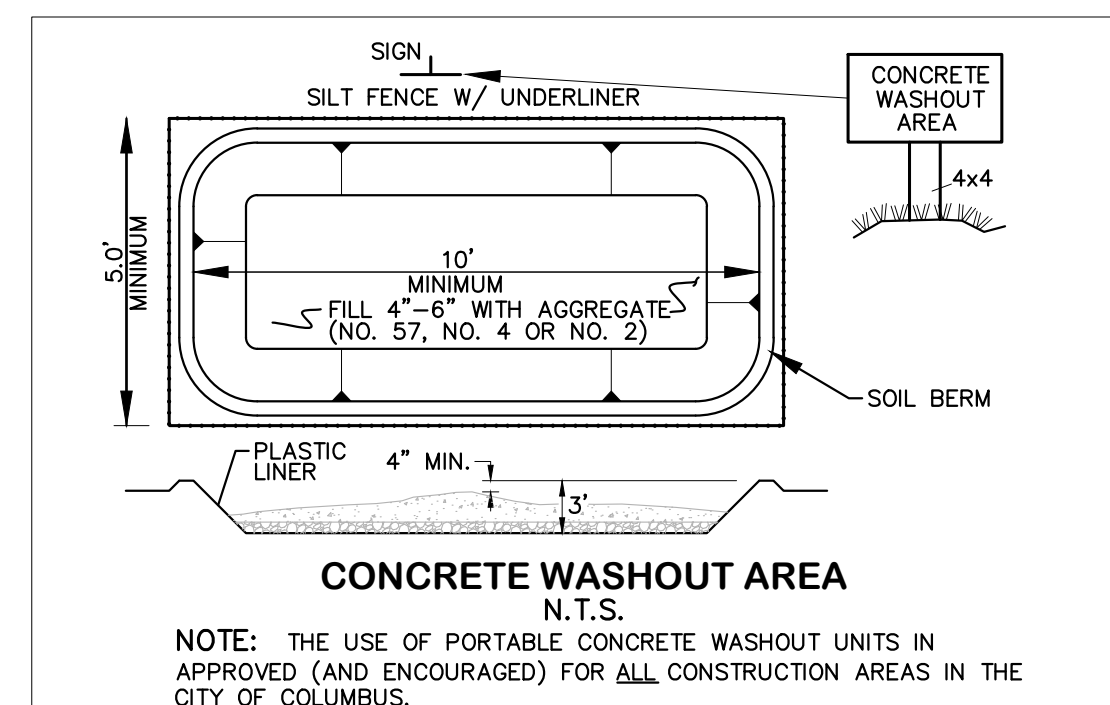
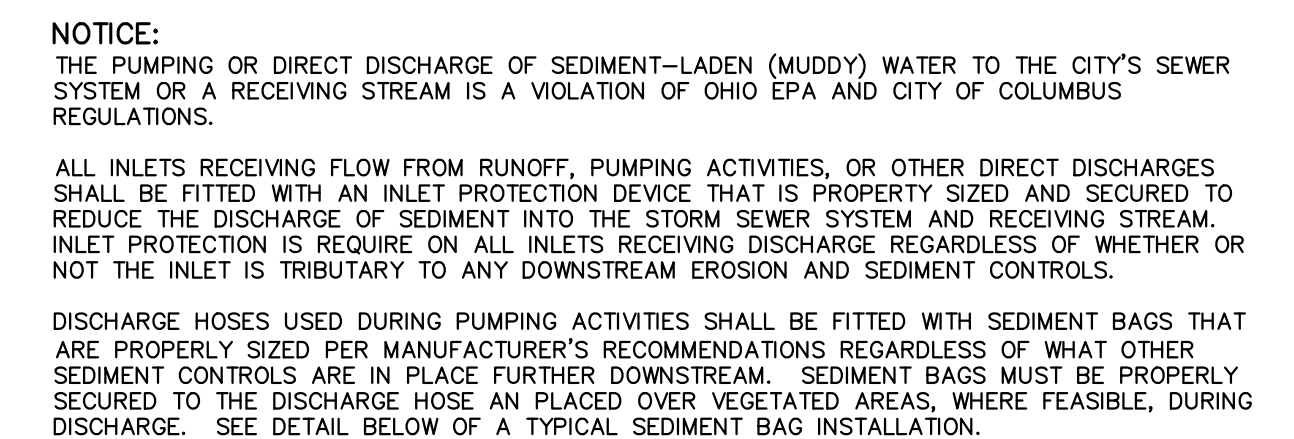
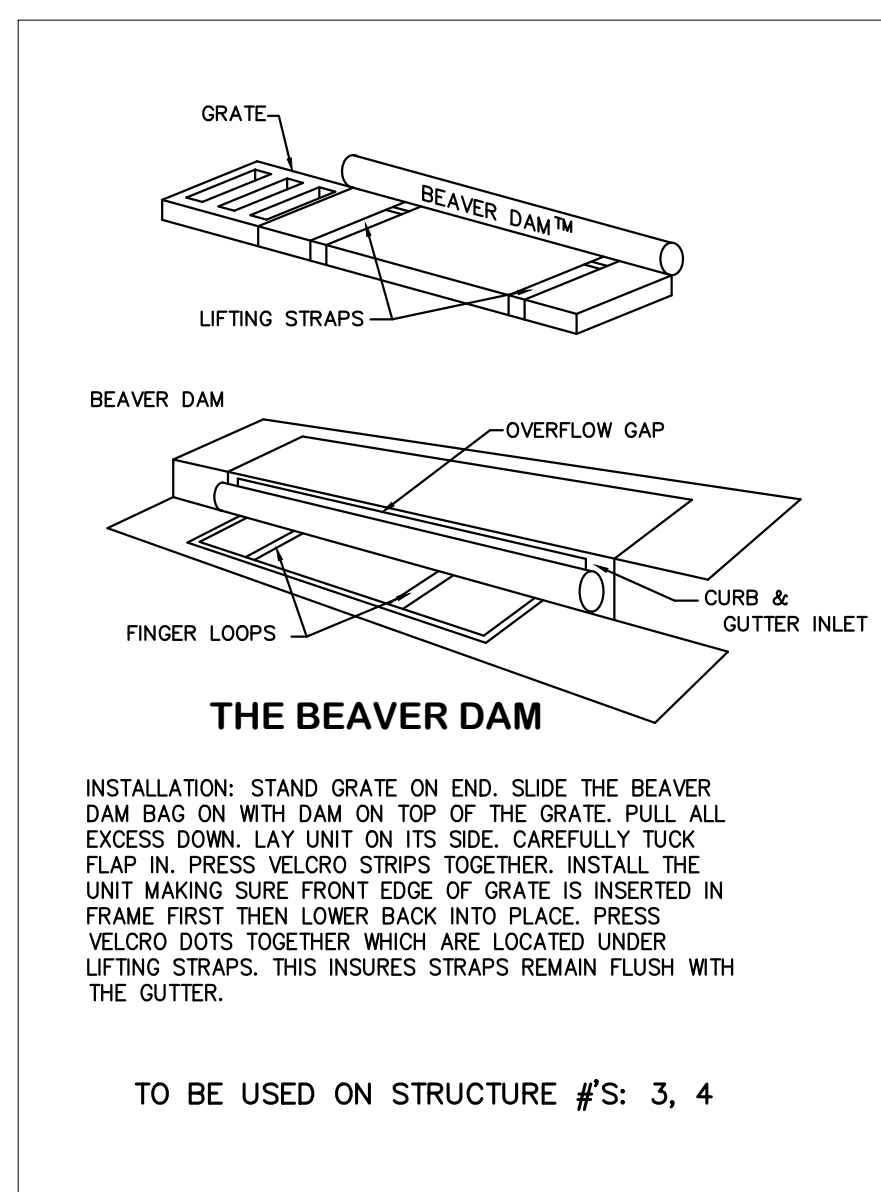


1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE INLET BECOMES FUNCTIONAL.
2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-INCH BY 4-INCH CONSTRUCTION GRADE LUMBER. THE 2-INCH BY 4-INCH POSTS SHALL BE DRIVEN ONE (1) FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-INCH BY 4-INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WILL POSE A SAFETY HAZARD TO TRAFFIC.
4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
5. GEOTEXTILE MATERIAL SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
7. A COMPACTED EARTH DIKE OR CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION. THE TOP OF THE DIKE SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

**NOTE:**  
VERTICAL INLET PROTECTION TO BE USED WHERE POSSIBLE AND ALWAYS IN AREAS TO BE GRASSED.



- TO BE PLACED AT ALL CATCH BASINS IN PAVEMENT INLET PROTECTION - DANDY BAG N.T.S.
- INSTALLATION: STAND GRATE ON END. PLACE DANDY BAG OVER GRATE. ROLL GRATE OVER SO THAT OPEN END IS UP. PULL UP SLACK. TUCK FLAP IN. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG WILL NOT FIT PROPERLY. HOLDING HANDLES, CAREFULLY PLACE DANDY BAG WITH GRATE INSERTED INTO CATCH BASIN FRAME SO THAT THE RED DOT ON THE TOP OF THE DANDY BAG IS VISIBLE.
- MAINTENANCE: WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL REMOVE SILT & OTHER DEBRIS OFF SURFACE AFTER EACH EVENT.
- TO BE USED ON STRUCTURE #S: 5



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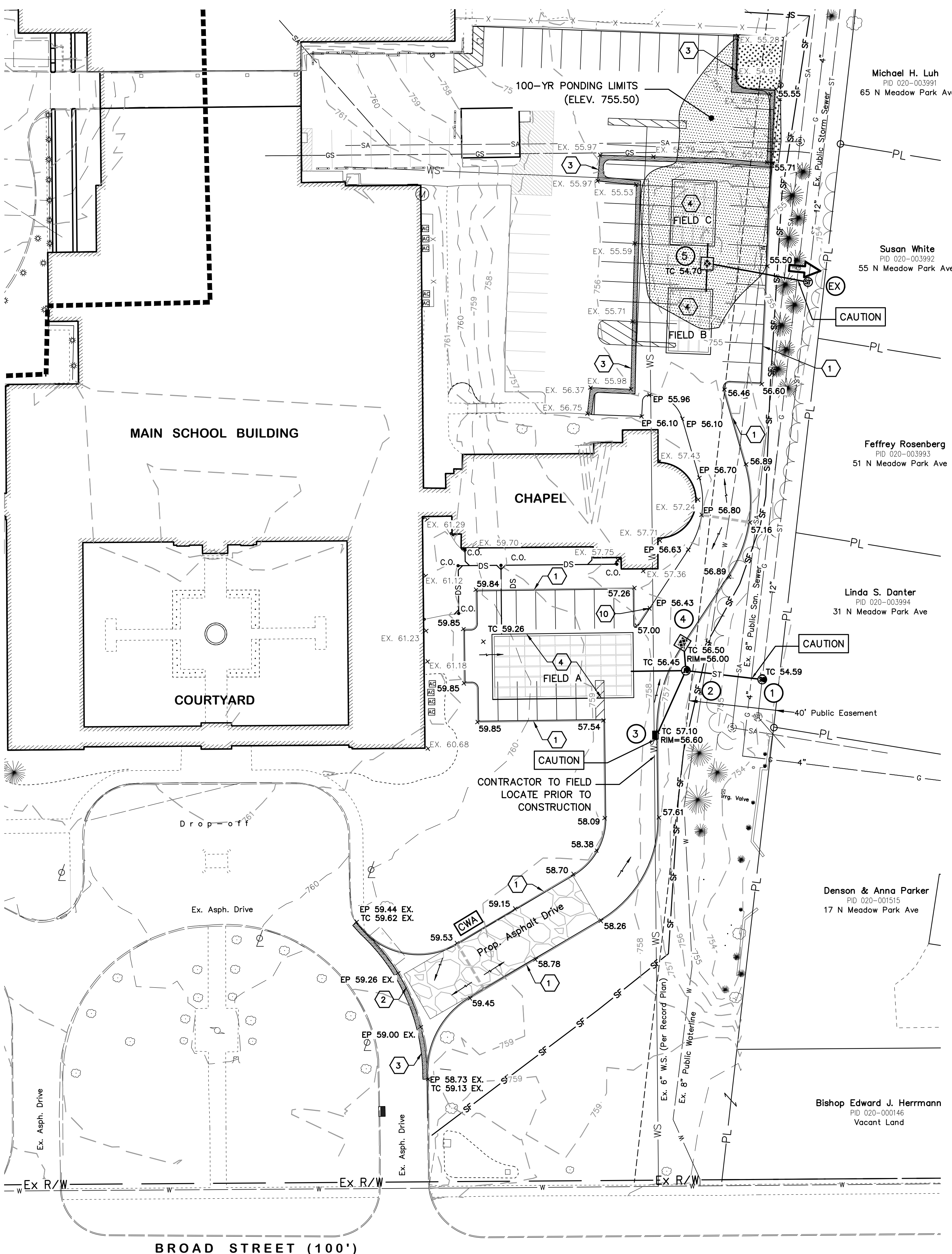
CITY OF BEXLEY

**ST. CHARLES PREPARTORY SCHOOL**

2010 E. BROAD STREET

JOB NO.	1034.003
DESIGNED BY:	CDM
DRAWN BY:	CDM
CHECKED BY:	MEF
APPROVED BY:	
DATE:	06-26-20

SCALE:	
SHEET NO.	OF
4	9



**KEYED NOTES**

- 1 PROP CURB
- 2 EXISTING CURB TO BE REMOVED
- 3 SAWCUT LINE
- 4 PROPOSED UNDERGROUND DETENTION SYSTEM (SEE SHEET 7 FOR DETAILS)
- 5 PROP. 8" DOWNSPOUT @ 1.0% MIN.
- 6 PROP. CLEANOUT (FOR DOWNSPOUT)
- 7 EX. CATCH BASIN TO BE REMOVED
- 8 EX. 8" STORM PIPE TO BE REMOVED
- 9 PROP. STRIPING
- 10 TAPER CURB 6" TO 0" IN 5 FEET

**LEGEND**

- PROPOSED MAJOR FLOOD ROUTE (GREATER THAN 100-YR EVENT)
- PROPOSED CONCRETE WALK/PAD
- PROPOSED 100-YR PONDING LIMITS (ELEV. 755.50)
- GRADE BREAK
- EXISTING/PROPOSED FLOW DIRECTION ARROW

**SWPPP LEGEND**

- INLET PROTECTION
- CONCRETE WASHOUT AREA
- PR. SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE (PER STD DWG 2230)

**NOTES:**

1. ADD 700 FEET TO ALL SPOT ELEVATIONS FOR NAVD88 DATUM ELEVATIONS.
2. ALL SPOT ELEVATIONS ALONG CURB REPRESENT TOP OF CURB ELEVATION UNLESS OTHERWISE NOTED.
3. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
4. SUB-GRADE: CONTRACTOR IS RESPONSIBLE FOR REVIEWING GEOTECHNICAL REPORT SPECIFIC TO THE PROJECT SITE AND FOLLOWING THE SITE PREPARATION RECOMMENDATIONS, INCLUDING THE REMOVAL AND MITIGATION OF UNSUITABLE MATERIAL. IF A GEOTECHNICAL REPORT WAS NOT PREPARED FOR THE PROJECT SITE, CONTRACTOR SHALL TAKE ALL RISKS ASSOCIATED WITH SUBSURFACE FINDINGS.
5. FLOOD ZONE: X (FIRM MAP 39049C0327K)

**STANDARD DUTY ASPHALT PAVEMENT BUILD-UP:**  
 1.5" ITEM 448 SURFACE COURSE  
 TACK COAT @ 0.08 GAL/SY - ITEM 407  
 1.5" ITEM 448 INTERMEDIATE COURSE  
 8" ITEM 304 AGGREGATE BASE COURSE  
 COMPACTED SUBGRADE PER GEOTECHNICAL REPORT

**HEAVY DUTY ASPHALT PAVEMENT BUILD-UP:**  
 1.5" ITEM 448 SURFACE COURSE  
 TACK COAT @ 0.08 GAL/SY - ITEM 407  
 2.5" ITEM 448 INTERMEDIATE COURSE  
 10" ITEM 304 AGGREGATE BASE COURSE  
 COMPACTED SUBGRADE PER GEOTECHNICAL REPORT

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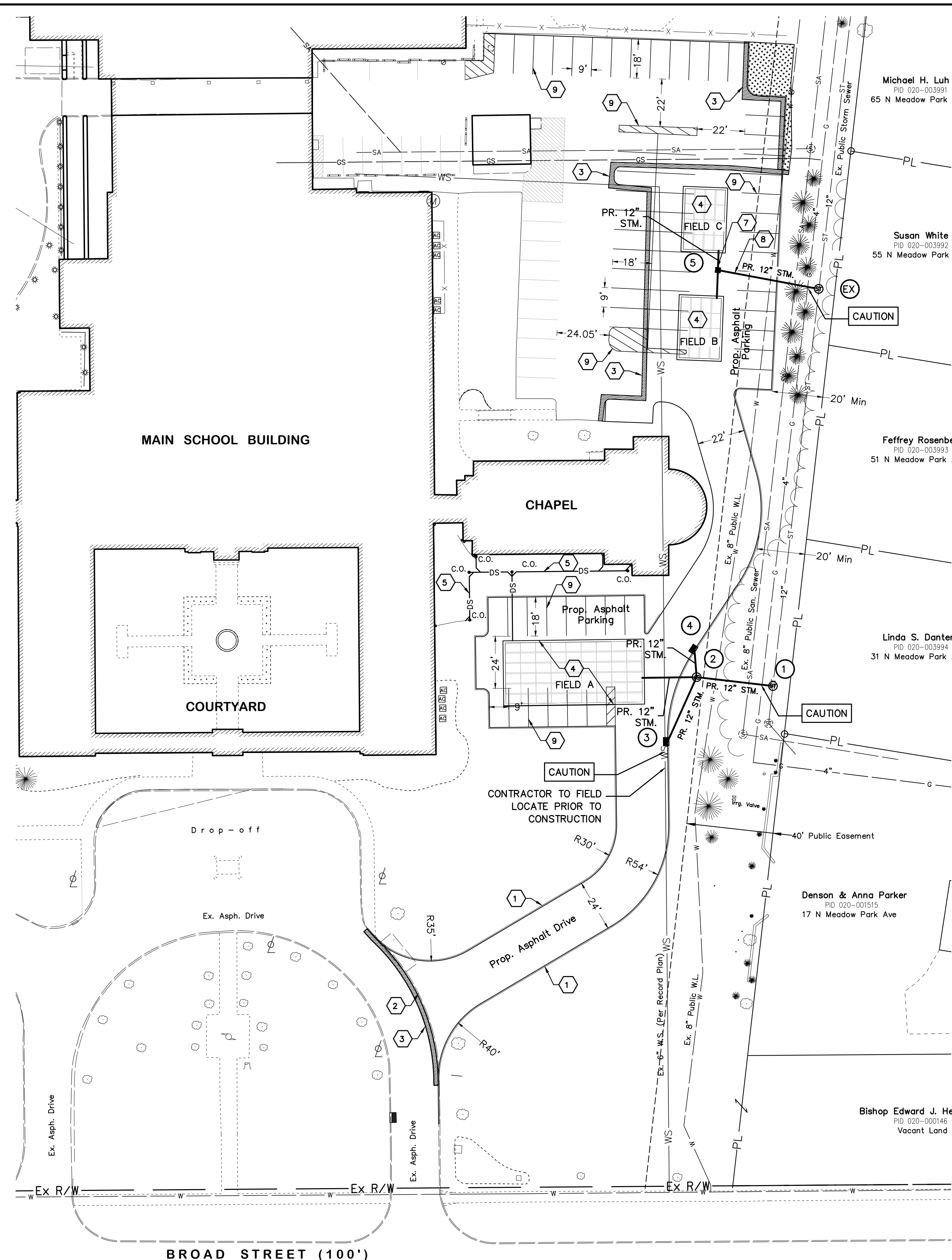
CITY OF BEXLEY  
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**SITE GRADING PLAN**

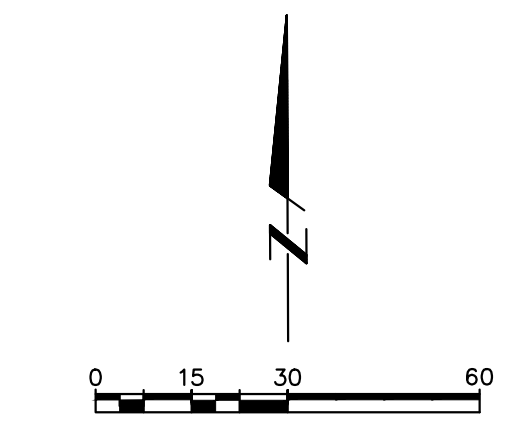
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- KEYED NOTES**
- 1 PROP CURB
  - 2 EXISTING CURB TO BE REMOVED
  - 3 SAWCUT LINE
  - 4 PROPOSED UNDERGROUND DETENTION SYSTEM (SEE SHEET 7 FOR DETAILS)
  - 5 PROP. 8" DOWNSPOUT @ 1.0% MIN.
  - 6 PROP. CLEANOUT (FOR DOWNSPOUT)
  - 7 EX. CATCH BASIN TO BE REMOVED
  - 8 EX. 8" STORM PIPE TO BE REMOVED
  - 9 PROP. STRIPING

- LEGEND**
- FULL DEPTH PAVEMENT REPLACEMENT
  - EXISTING PAVEMENT (TO BE REMOVED)



**POST CONSTRUCTION MAINTENANCE SCHEDULE**

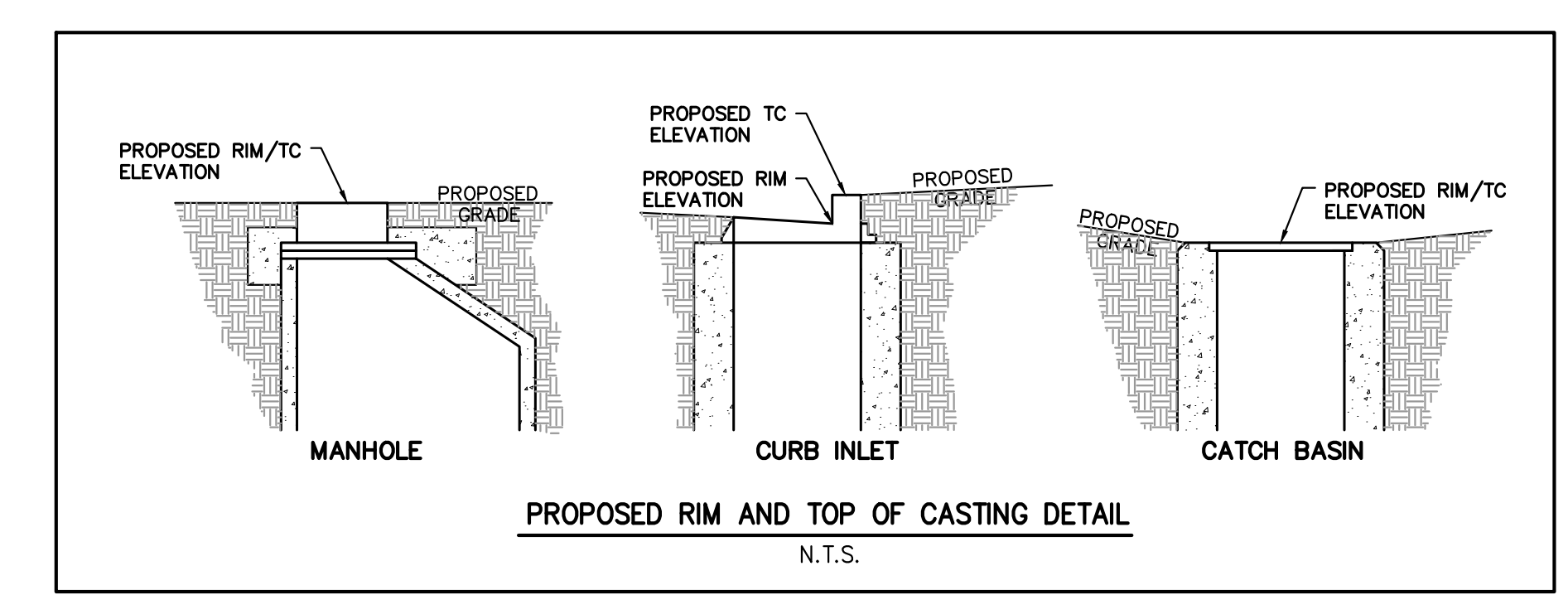
INSPECTION ITEM	MAINTENANCE PROCEDURE	FREQUENCY OF INSPECTION
STORM TECH SC-740	<p>STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT</p> <p>A. INSPECTION PORTS</p> <p>A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN</p> <p>A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED</p> <p>A.3. USING A FLASHLIGHT AND STADIA ROD (SLUDGE JUDGE OR SIMILAR DEVICE), MEASURE DEPTH OF SEDIMENT AND RECORD RESULTS ON MAINTENANCE LOG.</p> <p>A.4. IF SEDIMENT IS AT, OR ABOVE, 3-INCH DEPTH, PROCEED TO STEP 2. IF NOT PROCEED TO STEP 3</p> <p>B. ALL CHAMBER ROWS</p> <p>B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW</p> <p>B.2. USING A FLASHLIGHT, INSPECT DOWN ISOLATOR ROW THROUGH OUTLET PIPE</p> <p>B.2.1. MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID CONFINED SPACE ENTRY</p> <p>B.2.2. FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE</p> <p>B.3. IF SEDIMENT IS AT OR ABOVE 3-INCH DEPTH, PROCEED TO STEP 2. IF NOT PROCEED TO STEP 3</p> <p>STEP 2) CLEAN OUT CHAMBER ROW USING THE JETVAC PROCESS</p> <p>A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING NOZZLE SPREAD OF 45 INCHES OR MORE IS PREFERABLE</p> <p>B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN</p> <p>C. VACUUM STRUCTURE SUMP AS REQUIRED.</p> <p>STEP 3) REPLACE ALL CAPS, LIDS AND COVERS, RECORD OBSERVATIONS AND ACTIONS</p> <p>STEP 4) INSPECT AND CLEAN CATCH BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.</p>	<p>EVERY 6 MONTHS FOR FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.</p> <p>CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.</p>

**POST-CONSTRUCTION MAINTENANCE NARRATIVE**

THE STORM SEWER / DETENTION SYSTEM WILL REQUIRE ONGOING MAINTENANCE AND INSPECTION BY THE OWNER. CATCH BASINS SHALL BE INSPECTED EVERY THREE MONTHS TO INSURE THE STRUCTURE DOES NOT CONTAIN DEBRIS. IF THE STRUCTURE CONTAINS DEBRIS, THE MATERIAL SHALL BE REMOVED AND DISPOSED OF. VISUALLY INSPECT UNDERGROUND DETENTION MONTHLY AND AFTER EVERY RAINFALL EVENT OF MORE THAN 1/2 INCH TO ENSURE SYSTEM IS DRAINING APPROPRIATELY. COMPLETE FULL SYSTEM FLUSH ANNUALLY.

**DETENTION SYSTEM MAINTENANCE SCHEDULE**

ACTIVITY	SCHEDULE
1. VISUALLY INSPECT CATCH BASIN SUMPS.	QUARTERLY AND AFTER RAINFALLS GREATER THAN ONE-HALF INCH MINIMUM: ANNUALLY
2. VISUALLY INSPECT OUTLET CONTROL ORIFICE IN MH 1 & CB 5.	
3. CLEAN SUMPS WHEN MORE THAN TWO-THIRDS FULL OF SEDIMENT/DEBRIS.	
4. REMOVE ANY BLOCKAGE TO OUTLET CONTROL DEVICES.	ANNUALLY
5. REPLACE/REPAIR ANY DAMAGED COMPONENTS IMMEDIATELY.	
1. CLEAN AND JET STORM SEWERS	ANNUALLY



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SCALE:  
**1" = 30'**

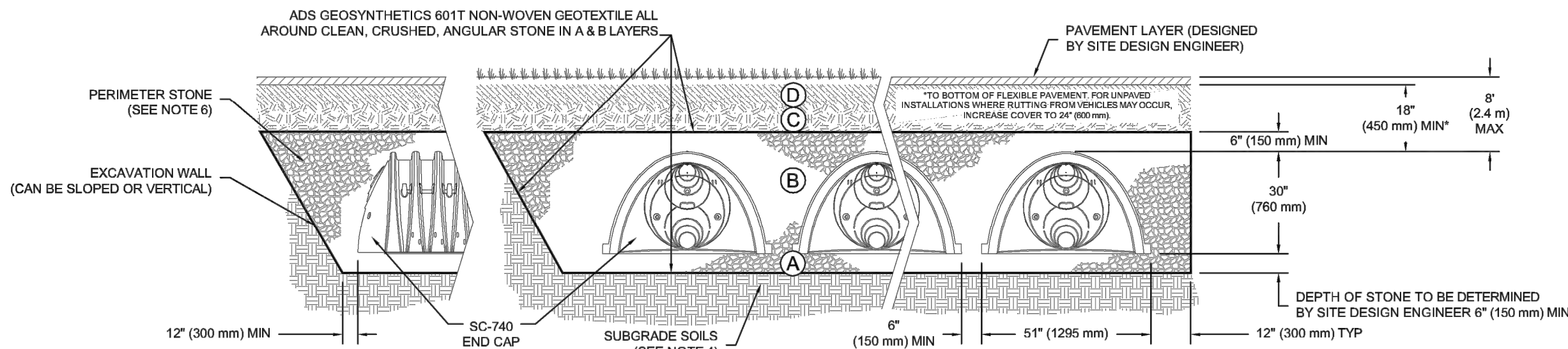
**SITE LAYOUT AND UTILITY PLAN**

SHEET NO. 6 OF 9

**ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS**

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	<b>FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	<b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2-4, A-3  OR AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN) DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	<b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	<b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>

- PLEASE NOTE:**
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



**NOTES:**

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

**AGGREGATE CERTIFICATION NOTE:** CONTRACTOR TO PROVIDE AGGREGATE SIEVE ANALYSIS FROM THE SUPPLIER TO COLUMBUS INSPECTOR FOR REVIEW. AGGREGATE PROVIDED MUST MEET CITY OF COLUMBUS SPECIFICATION ITEM 703.

THE CONTRACTOR SHALL PROVIDE THE CITY CERTIFIED REPORTS FROM A CERTIFIED LABORATORY VERIFYING THE AGGREGATE FOR THE WATER DETENTION LAYERS (A AND B) OF THE STORMWATER DETENTION FACILITY MEETS OR EXCEEDS 40% VOID SPACE.

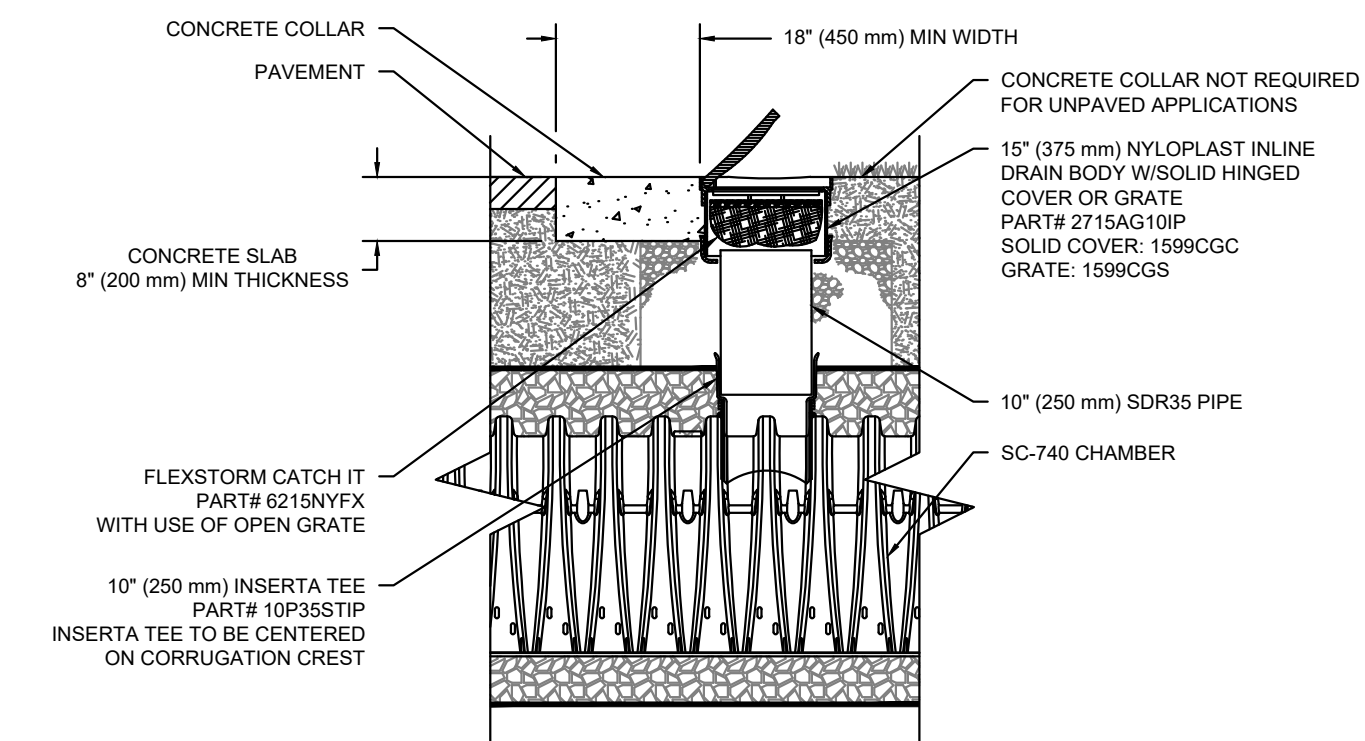
CHAMBER LOCATION	NUMBER OF ROWS	LENGTH	WIDTH	HEIGHT COVER AGGREGATE	HEIGHT BASE AGGREGATE	DETENTION VOLUME CHAMBERS	DETENTION VOLUME AGGREGATE	WATER QUALITY VOLUME	TOTAL DETENTION VOLUME
FIELD A	6 ROWS	67.70'	30.00'	6"	6"	2,481 C.F.	1,851 C.F.	N/A	4,332 C.F.
FIELD B	4 ROWS	32.10'	20.50'	6"	6"	735 C.F.	628 C.F.	N/A	1,363 C.F.
FIELD C	4 ROWS	32.10'	20.50'	6"	6"	735 C.F.	628 C.F.	N/A	1,363 C.F.

**SC-740 ELEVATIONS (FIELD A)**

TOP OF STONE	754.50
TOP OF CHAMBER	754.00
TOP 12" MANIFOLD INVERT	753.20
TOP 12" MANIFOLD INVERT	752.70
12" ISOLATOR ROW INVERT	751.65
12" BOTTOM MANIFOLD INVERT	751.65
BOTTOM OF CHAMBER	751.50
BOTTOM OF STONE	751.00

**SC-740 ELEVATIONS (FIELD B & C)**

TOP OF STONE	753.35
TOP OF CHAMBER	752.85
TOP 12" MANIFOLD INVERT	752.20
TOP 12" MANIFOLD INVERT	751.70
12" ISOLATOR ROW INVERT	750.50
12" BOTTOM MANIFOLD INVERT	750.50
BOTTOM OF CHAMBER	750.35
BOTTOM OF STONE	749.85



**SC-740 10" INSPECTION PORT DETAIL**  
NTS

**SC-740 STANDARD CROSS SECTION**

REV: 01/19/14  
DATE: 11/19/14  
PROJECT #: \_\_\_\_\_  
DRAWN: JLM  
CHECKED: JLM

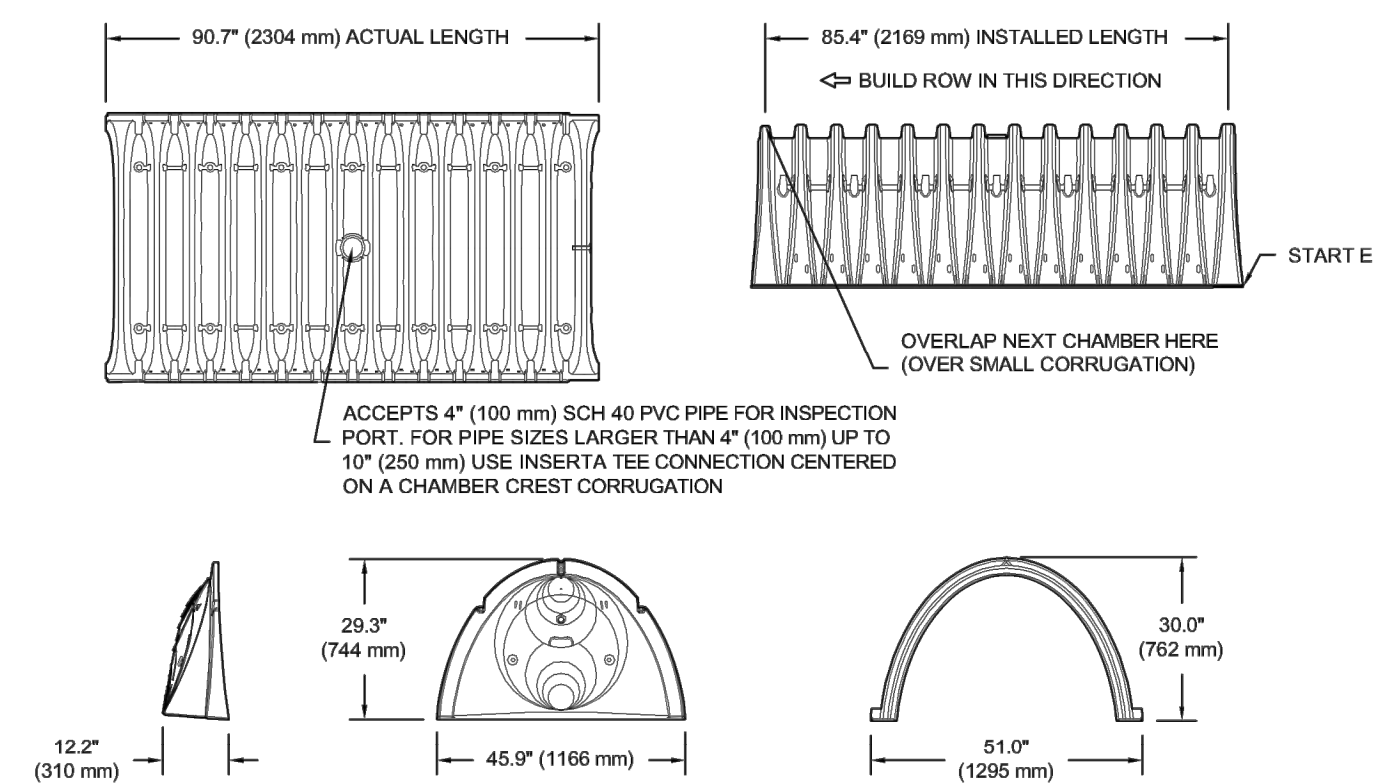
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DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

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1-800-735-7473

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SHEET  
1 OF 1

**SC-740 TECHNICAL SPECIFICATION**  
NTS



**NOMINAL CHAMBER SPECIFICATIONS**

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m <sup>3</sup> )
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m <sup>3</sup> )
WEIGHT	75.0 lbs.	(33.6 kg)

\*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"  
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	—
SC740EPE08B / SC740EPE08BPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740EPE08T / SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	—	0.6" (15 mm)
SC740EPE10B / SC740EPE10BPC	10" (250 mm)	13.4" (340 mm)	—	0.7" (18 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	—	—
SC740EPE10B / SC740EPE10BPC	10" (250 mm)	13.4" (340 mm)	12.5" (318 mm)	—
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	—	1.2" (30 mm)
SC740EPE12B / SC740EPE12BPC	12" (300 mm)	14.7" (373 mm)	—	—
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	—
SC740EPE15B / SC740EPE15BPC	15" (375 mm)	18.4" (467 mm)	—	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	—
SC740EPE18B / SC740EPE18BPC	18" (450 mm)	19.7" (500 mm)	—	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	—	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2894.

\* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

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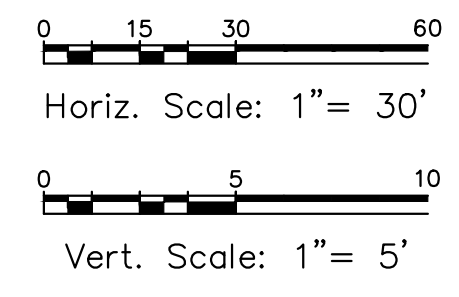
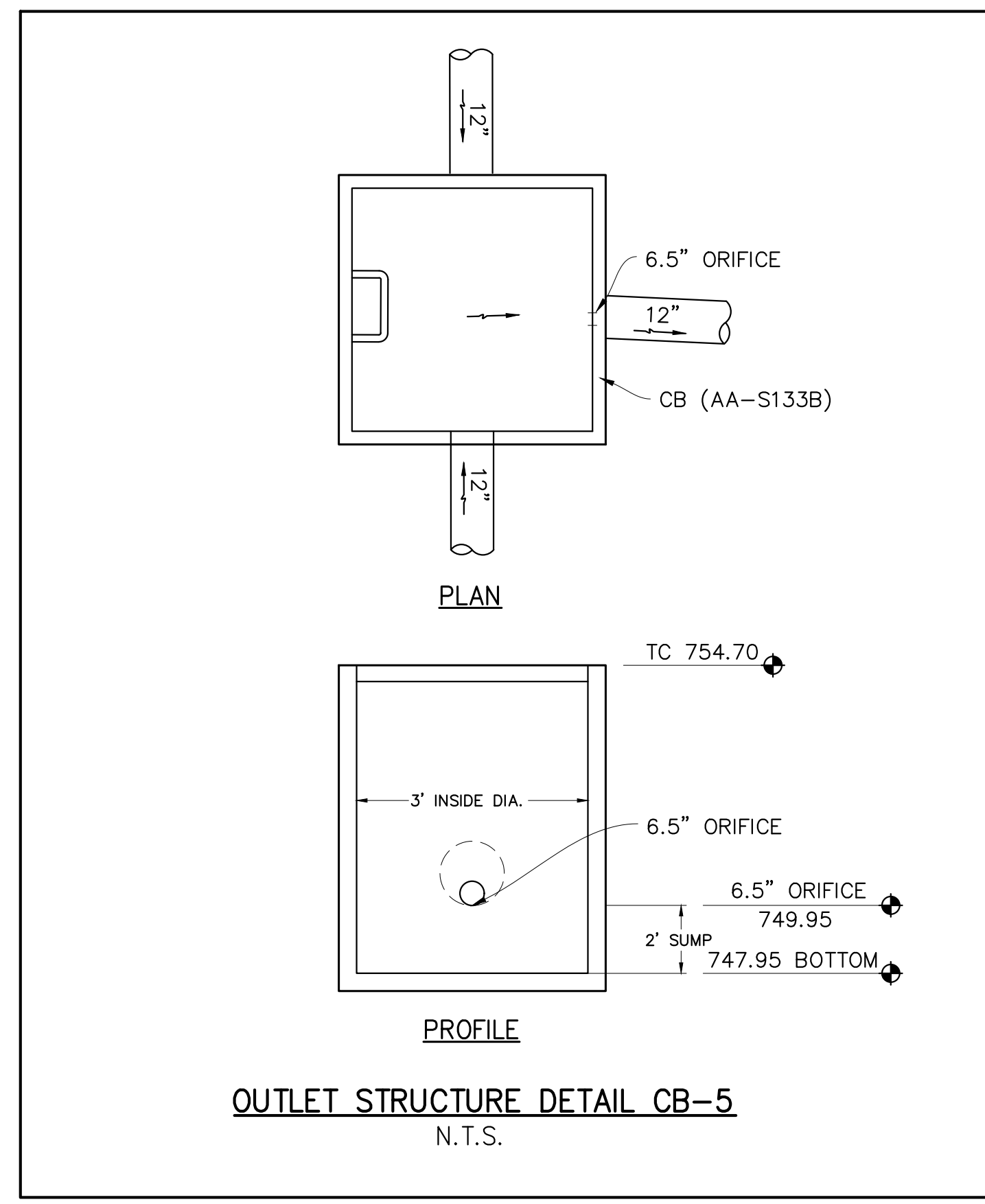
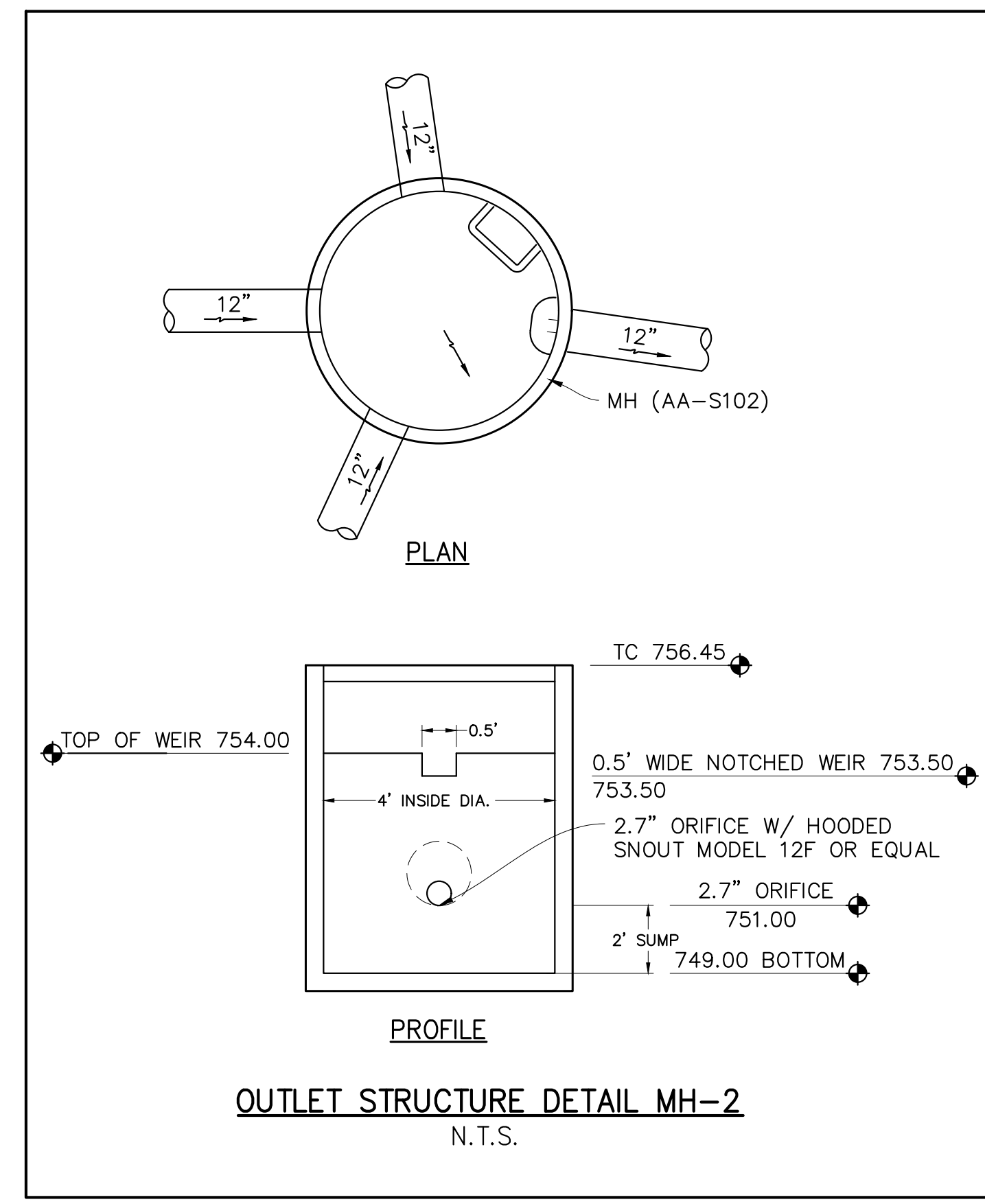
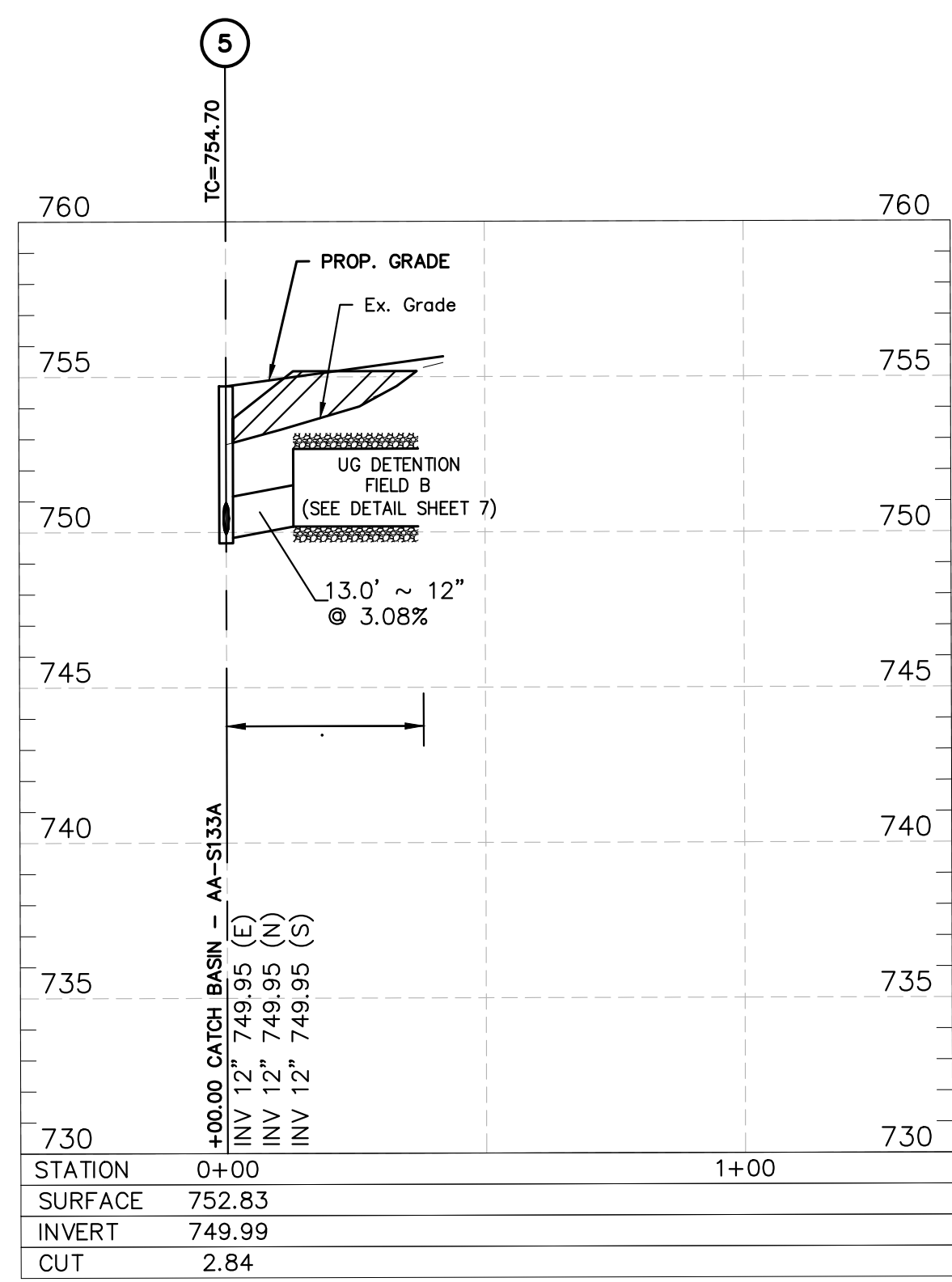
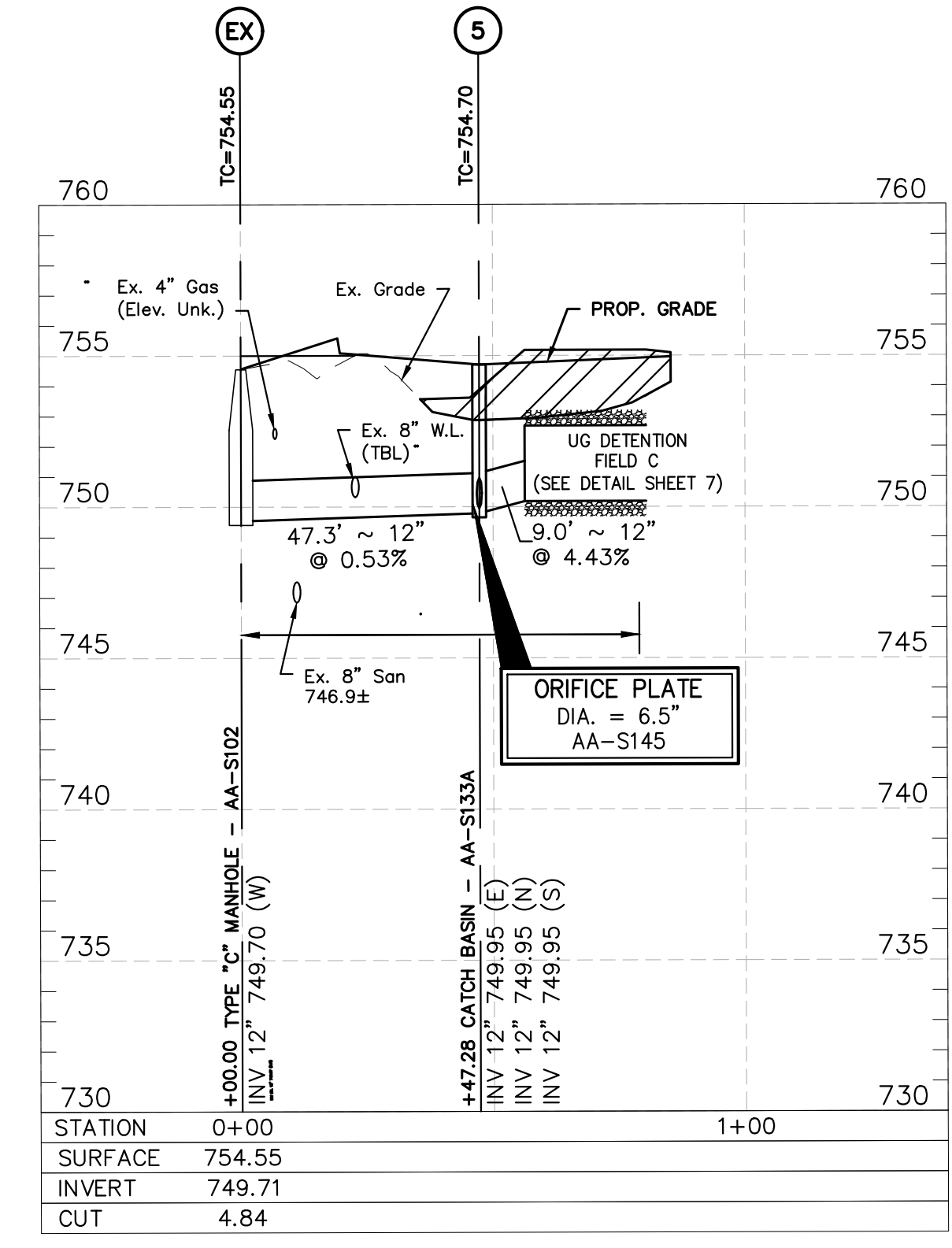
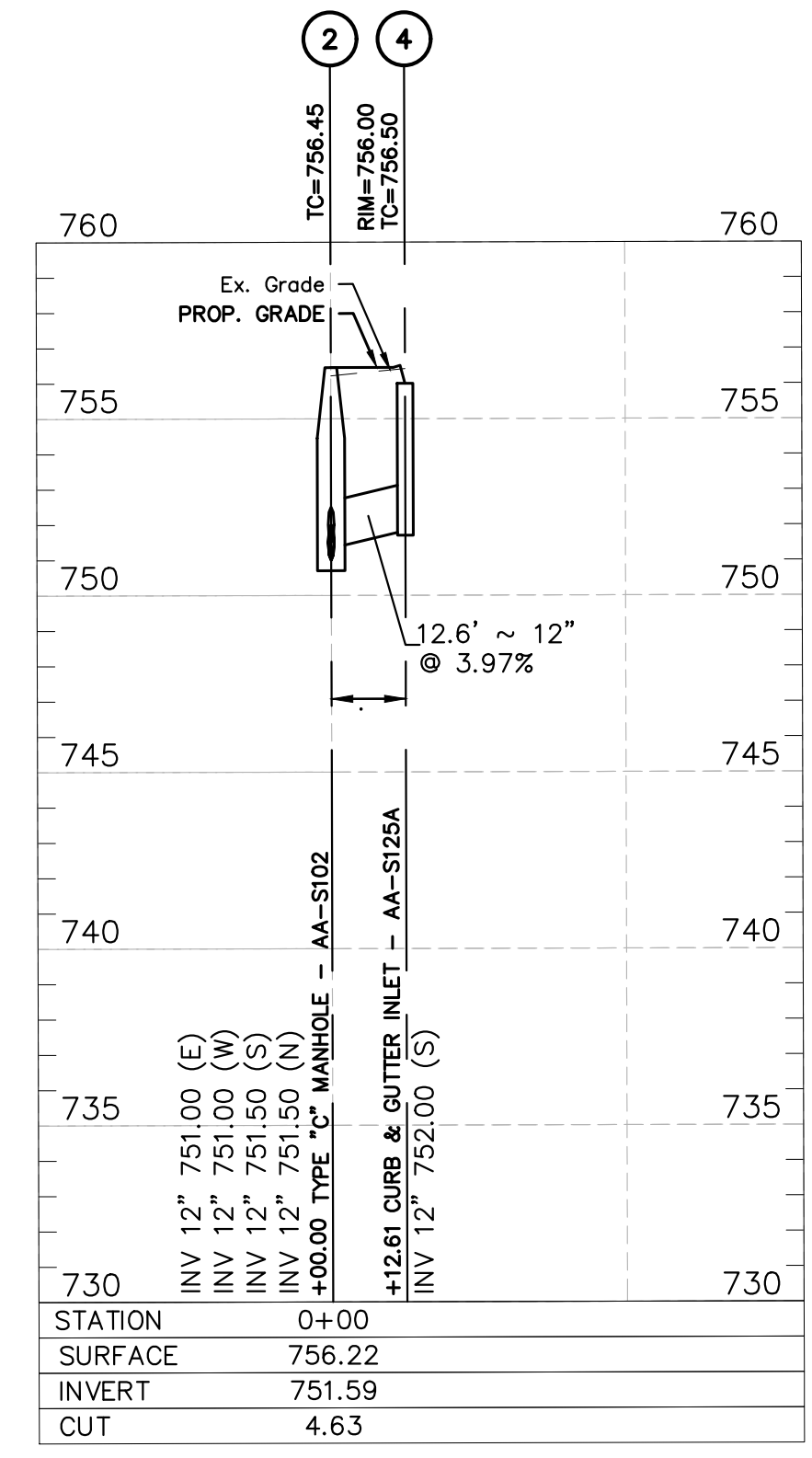
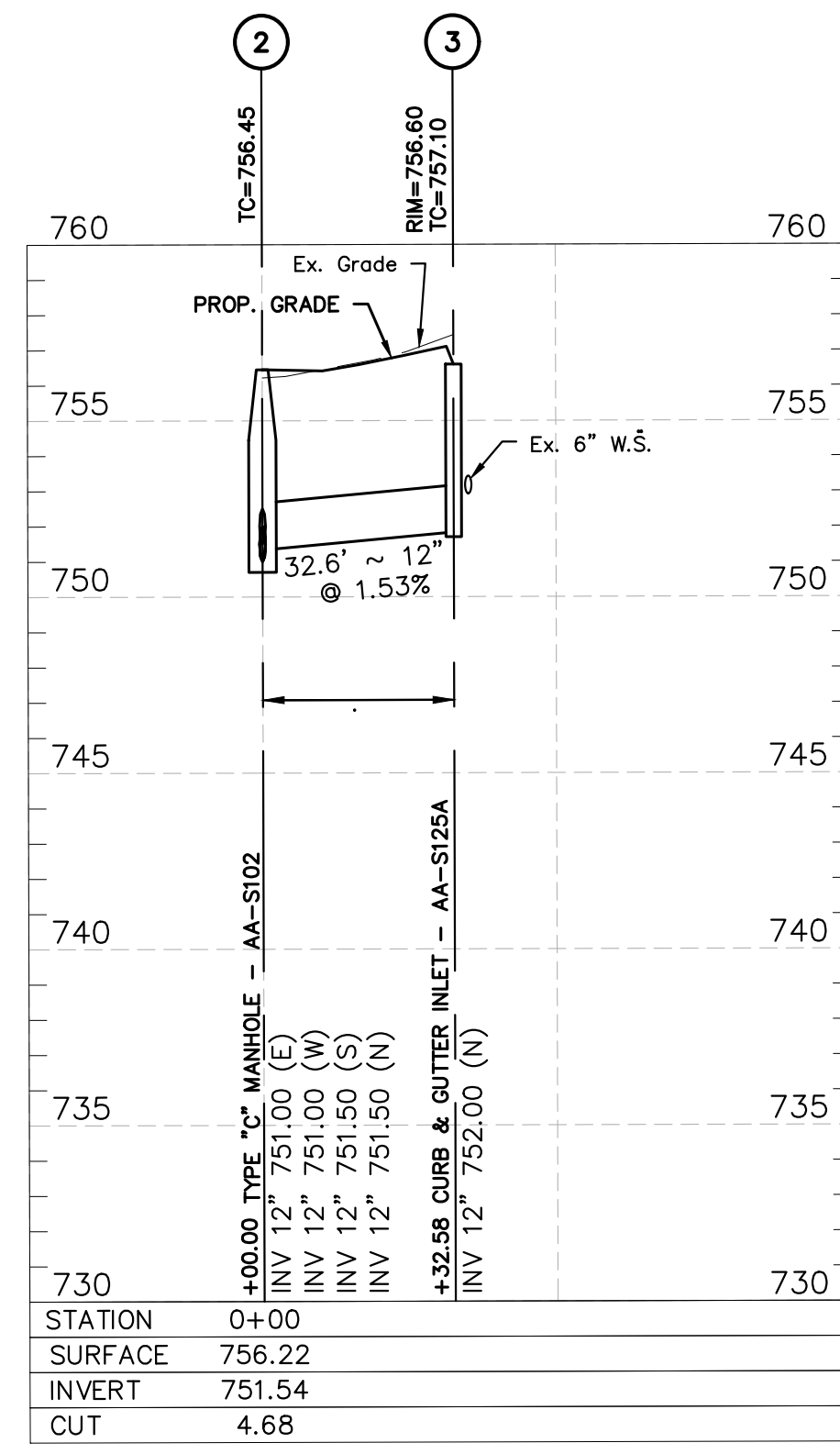
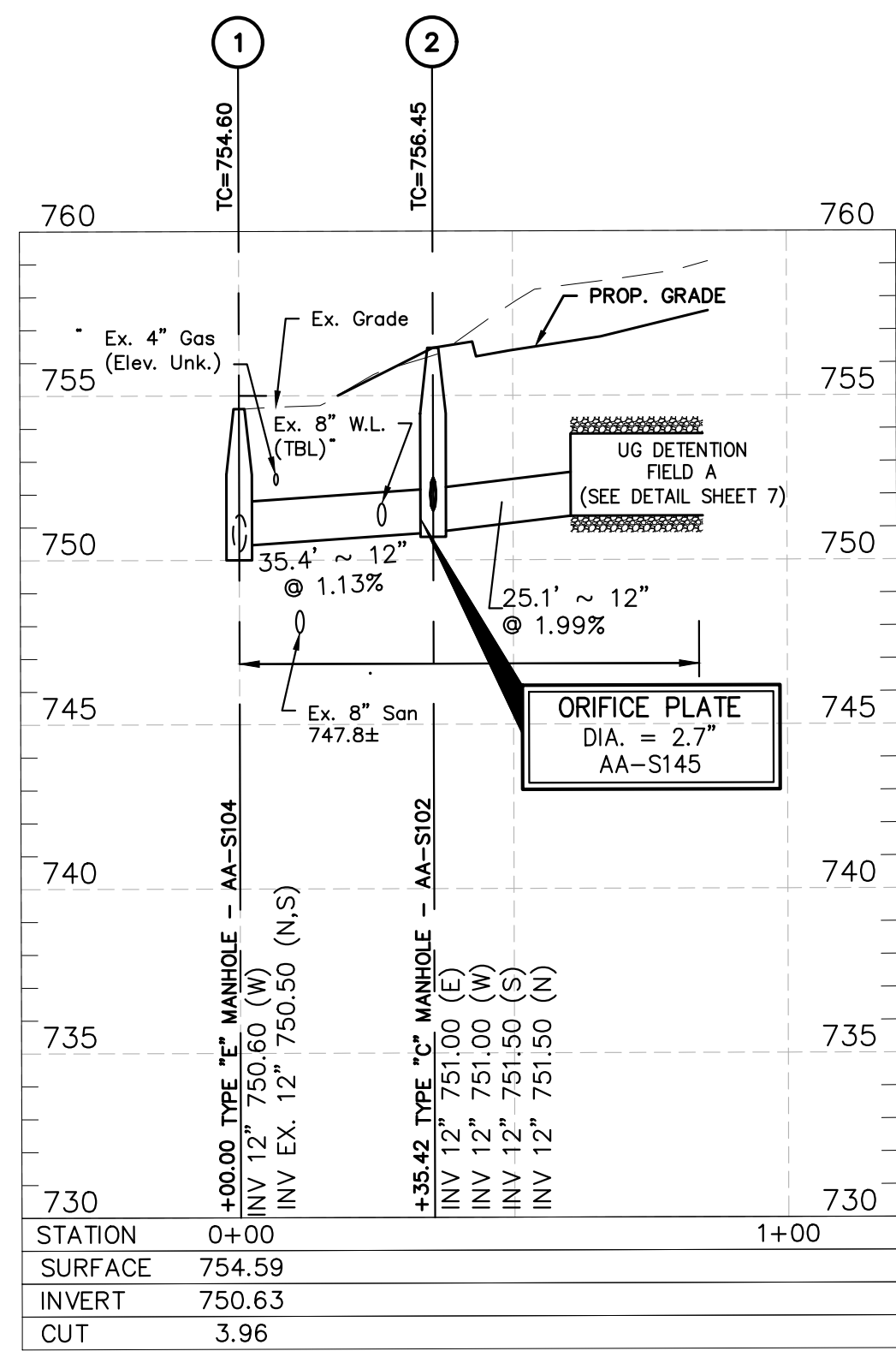
CITY OF BEXLEY  
**ST. CHARLES PREPARTORY SCHOOL**  
2010 E. BROAD STREET

JOB NO. 1034.003  
DESIGNED BY: CDM  
DRAWN BY: CDM  
CHECKED BY: MEF  
APPROVED BY: \_\_\_\_\_  
DATE: 06-26-20

SCALE: \_\_\_\_\_

SHEET NO. 7 OF 9

**DETAILS**



EMBEDMENT STONE, AASHTO M43

COMPACTED FILL AREA

NOTE: PIPE INSTALLED IN AREAS OF FILL SHALL REQUIRE THE COMPACTED FILL TO BE PLACED 2.5' ABOVE THE TOP OF THE PIPE OR TO PROPOSED GRADE, WHICHEVER IS LESS, PRIOR TO PIPE INSTALLATION. (SEE FILL AREAS ON PROFILES OF SUCH KNOWN LOCATIONS)

NOTE: TC REPRESENTS THE TOP OF CASTING ELEVATION OF STORM STRUCTURES. TC AND RIM ELEVATIONS ARE NOT THE SAME FOR CURB INLETS.

- NOTE:**
- \* ITEM 911 COMPACTED BACKFILL
  - \*\* CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITY PRIOR TO CONSTRUCTION
- TBL = TO BE LOWERED

M:\1034003\_S\Charles\DWG\Data-Ref\PR STORM.dwg --STM PROF LAST EDITED BY CDM ON 6/26/20

REVISIONS	DATE	BY	CHK

**E. P. FERRIS**  
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CITY OF BEXLEY  
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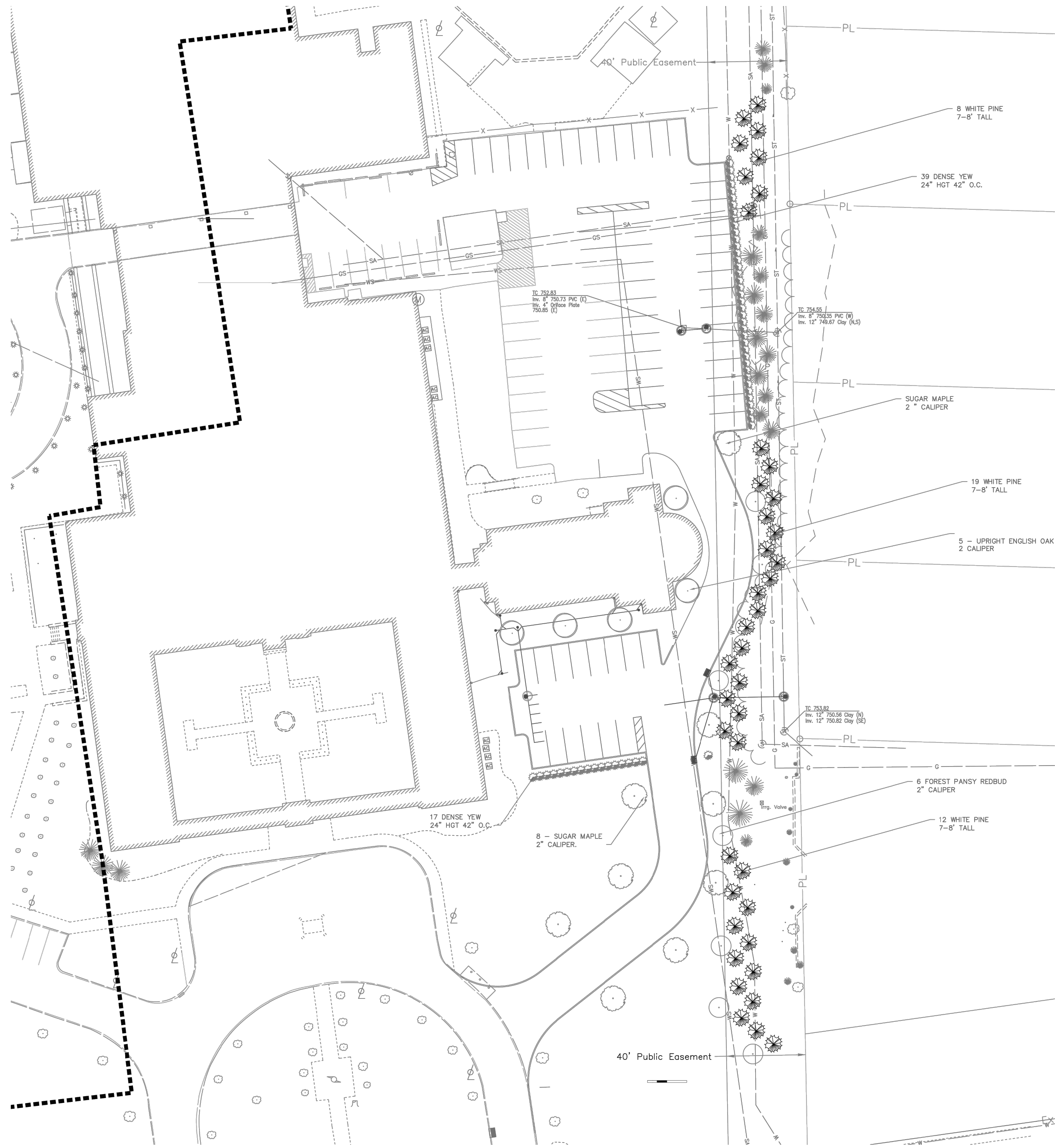
**STORM SEWER PROFILES**

SCALE:  
1" = 30'

SHEET NO.	OF
8	9



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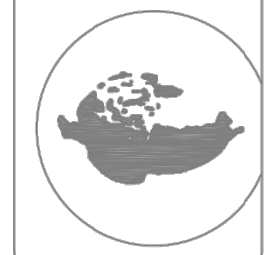
PLANTING SCHEDULE			
COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
SHADE TREE			
SUGAR MAPLE	ACER SACCARUM	2"	9
UPRIGHT ENGLISH OAK	QUERCUS RUBRUM 'REGAL PRINCE'	2"	
ORNAMENTAL TREE			
FOREST PANSY REDBUD	CERCIS CANADENSIS 'FOREST PANSY'	0'-2"	6
EVERGREEN TREES			
EASTERN WHITE PINE	PINUS STROBUS	7-8'	39
SHRUBS			
DENSE YEW	TAXUS X MEDIA 'DENSIFORMIS'	2'-0"	56

REVISIONS	BY

CITY OF BEXLEY, OHIO  
**ST. CHARLES PREPARATORY SCHOOL**  
 2010 E. BROAD STREET

landscape architecture  
 site planning  
 construction management  
 10000 Woodloch Forest Drive  
 Columbus, OH 43240  
 (614) 298-3034

**Oakland Design Associates**



DRAWN G. HUSTON
CHECKED
DATE JUNE 25, 2020
SCALE 1" = 20'
JOB NO.
SHEET
OF