

## Addendum # 2 -- 11-024.0-CIP -- E-Mail Coversheet

### SFIR/COIC Floodplain Fill

<i>Planholder</i>	<i>Company E-Mail</i>	<i>Company Contact</i>
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Please sign, date and return by e-mail to [hgeorge@dublin.oh.us](mailto:hgeorge@dublin.oh.us) to verify receipt of this addendum. Attach signed copy of addendum to bid package when submitting a bid.

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



Date of Addendum  
**Jun 14, 2013**

**City of Dublin -- Division of Engineering**  
5800 Shier-Rings Road Dublin OH 43016  
Phone (614) 410-4640 Fax (614) 761-650

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**Addendum # 2 -- 11-024.0-CIP -- E-Mail Coversheet**  
**SFIR/COIC Floodplain Fill**

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**Engineering**  
5800 Shier Rings Road  
Dublin, Ohio 43016

Phone 614.410.4600

[www.dublinohiousa.gov](http://www.dublinohiousa.gov)

**ADDENDUM NO. 2  
to contract for**

**Project Name: South Fork  
Indian Run Floodplain Fill  
11-024-CIP**

**Bid Date: June 18, 2013**

**TO PROSPECTIVE BIDDERS:** The following changes shall be made a part of the contract documents for this project:

The City has received concerns on the quality of the plans provided. Therefore, we are making available a different pdf that has better quality.

**Addendum Approved By:**

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Paul A. Hammersmith, PE  
Director of Engineering/City Engineer

**June 14, 2013**

Date









SWPPP NARRATIVE

PLAN DESIGNER

Evans, Mechwart, Hambleton, & Tilton, Inc.  
5500 New Albany Road  
Columbus, Ohio 43054  
Phone: (614)471-5150 Fax: (614)470-9530

PROJECT OWNER/SITE CONTACT

City of Dublin  
5800 Shier Rings Road  
Dublin, Ohio 43016  
Contact: Barb Cox  
Tel: (614) 410-4600  
Fax: (614) 718-4346

PROJECT DESCRIPTION

This project shall consist of the mass excavation and filling of the site to raise it out of the existing floodplain.

AREA OF PROJECT SITE

Estimated Disturbance Area = 40.7 Acres.

EXISTING SITE CONDITIONS

The site currently consists of open field, brush, and wooded areas. South Fork Indian Run drains from west to east across the southern limits of the project.

ADJACENT AREAS

The site is bound by S.R.161 to the north, U.S.33/S.R.161 to the east, existing commercial development to the south and west.

RECEIVING STREAM/SURFACE WATER

The general drainage is from north to south to the South Fork Indian Run which flows west to east across the southern portion of the site.

CRITICAL AREAS

Contractor shall ensure that the storm water runoff is routed through the on-site sediment basins.

EROSION & SEDIMENT CONTROL MEASURES

Sediment shall be controlled by on-site sediment basins. Sediment Fence shall be utilized in areas where sheet flow can be collected. Temporary and permanent seeding procedures shall be utilized to prevent erosion.

MAINTENANCE

It is the Contractor's responsibility to maintain the sedimentation and erosion control features on this project. Any sediment or debris that has reduced the efficiency of a control shall be removed immediately. Should a structure or feature become damaged, the Contractor shall repair or replace it at no cost to the Owner.

Weekly street cleaning is required through the duration of the construction project. This includes sweeping, power cleaning and manual (if necessary) removal of dirt or mud in the street gutters.

INSPECTIONS

The NPDES permit holder shall provide qualified personnel to conduct site inspections ensuring proper functionality of the erosion and sedimentation controls. All erosion and sedimentation controls are to be inspected once every seven calendar days or within 24 hours of a 1/2 inch storm event or greater. Records of the site inspections shall be kept and made available to jurisdictional agencies if requested.

TEMPORARY AND PERMANENT SEEDING

The limits of seeding and mulching are as shown within the plan as designated by the limits of disturbance. All areas not designated to be seeded shall remain under natural ground cover. Those areas disturbed outside the seeding limits shall be seeded and mulched at the Contractor's expense. Temporary and permanent seeding shall be provided per item 659.

TEMPORARY SEEDING

Any area which will be left dormant (undisturbed) for more than 21 days shall be seeded within 7 days of terminated work. Disturbed areas within 50 feet of a stream, first order or larger, shall be stabilized within 2 days of inactivity. Temporary seeding consists of seedbed preparation and application of seed, fertilizer, and water. Soil test is recommended to determine proper application rate of fertilizer and if lime is necessary.

PERMANENT SEEDING

Any area that is at final grade shall be seeded within 7 days of terminated work. Permanent seeding consists of seedbed preparation and application of seed, fertilizer, and water. Soil test is recommended to determine proper application rate of fertilizer and if lime is necessary. Ideal conditions for permanent seeding is March 1-May 31 and August 1-September 30.

CONTRACTOR RESPONSIBILITIES

Details have been provided on this plan in an effort to help the Contractor provide erosion and sedimentation control. The details shown on the plan shall be considered a minimum. Additional or alternative details may be found in the O.D.N.R. Manual "Rainwater and Land Development." The Contractor shall be solely responsible for providing necessary and adequate measures for proper control of erosion and sediment runoff from the site along with proper maintenance and inspection in compliance with the NPDES General Permit for Storm Discharges Associated with Construction Activity.

The Contractor shall provide a schedule of operations to the Owner. The schedule should include a sequence of the placement of the sedimentation and erosion control measures that provides for continual protection of the site throughout the earth moving activities.

Prior to Construction Operations in a particular area, all sedimentation and erosion control features shall be in place. Field adjustments with respect to locations and dimensions may be made by the Engineer.

It may become necessary to remove portions of sedimentation controls during construction to facilitate the grading operations in certain areas. However, the controls shall be replaced upon grading or during any inclement weather.

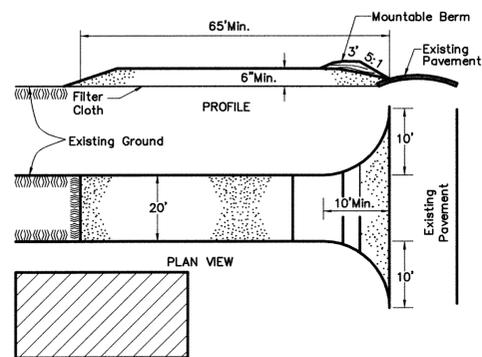
The Contractor shall be responsible to have the current Storm Water Pollution Prevention Plan immediately available or posted on site.

The Contractor shall be responsible to ensure that off-site tracking of sediments by vehicles and equipment is minimized. All such off-site sediment shall be cleaned up daily.

The Contractor shall be responsible to ensure that no solid or liquid waste is discharged into storm water runoff. Untreated sediment-laden runoff shall not flow off of site without being directed through a control practice.

SEQUENCE OF EROSION & SEDIMENT CONTROL IMPLEMENTATION

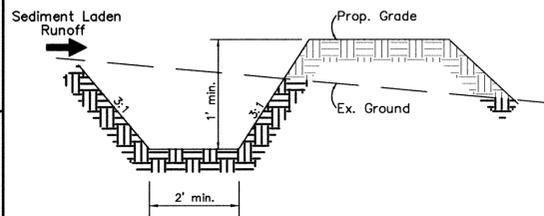
- Establish a stabilized construction entrance off of Eterman Road, complete with temporary culverts placed within the existing roadside ditch and the permanent diversion ditch.
- Determine the location of the stream riparian protection zone (Floodway +20 Ft.) and install all perimeter sediment fence.
- Construct the permanent diversion ditch along the eastern perimeter of the site. Permanently stabilize the swale per the detail on sheet 3 and install rock check dams.
- Excavate the proposed sediment basins and install the temporary riser pipes, outlet pipes, and rock channel protection.
- Construct the temporary west basin outlet channel, install rock channel protection, and stabilize the disturbed channel side slopes.
- Construct the temporary diversion channels along the southern perimeter of the site to route the stormwater runoff into the sediment basins.
- Remove the existing catch basin structure located within the central portion of the site and permanently block the existing 12" storm sewers.
- Strip the topsoil (7" average depth) from the areas to be filled and stockpile the topsoil. Temporary stabilize the stockpile if it is to remain idle for more than 21 days.
- Establish a stabilized construction entrance off of Liggett Road and install perimeter sediment fence at the existing offsite soil stockpile.
- Commence with filling and grading activities and adjust the location and elevation of the temporary diversion channels as necessary to properly route the stormwater runoff to the sediment basins.
- Enlarge the east sediment basin if additional fill material is necessary to bring the site to proposed grades.
- Re-spread topsoil from the stockpile across the filled areas to a depth of 3" and permanently stabilize the filled areas and the onsite and offsite soil stockpiles.
- Remove the temporary riser pipes, outlet pipes, and rock channel protection from the north and west sediment basins.
- Fill the north and west sediment basins to proposed grades and permanently stabilize the disturbed areas.
- Fill the west and east temporary sediment basin diversion channels to proposed grade and permanently stabilize the disturbed areas.
- Remove the perimeter sediment fence and temporary construction entrances and permanently stabilize the resulting disturbed areas.



- A: Contractor Laydown Area (Dumpster, Vehicle Fueling)**  
Location to be determined in the field by Contractor.
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  - Length - 65' Min.
  - Thickness - Not less than six (6) inches.
  - Width - Twenty (20) foot minimum, but not less than the full width at points where ingress or egress occurs.
  - Filter Cloth - will be placed over the entire area prior to placing of stone.
  - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
  - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  - Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public right-of-ways. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE

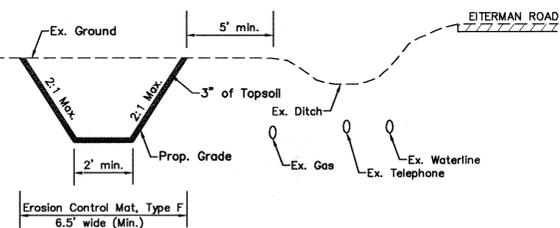
SCALE: NONE



**MAINTENANCE:**  
All channels shall be seeded and mulched immediately following their construction. The Contractor shall be held responsible for maintenance of the channel prior to completion of the project. The slope of the channel shall be such to provide adequate drainage throughout the entire length of the channel.

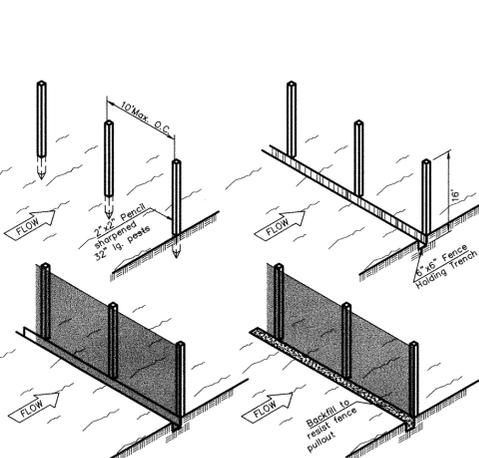
TEMPORARY DIVERSION CHANNEL

SCALE: NONE



PERMANENT DIVERSION DITCH TYPICAL SECTION

SCALE: NONE

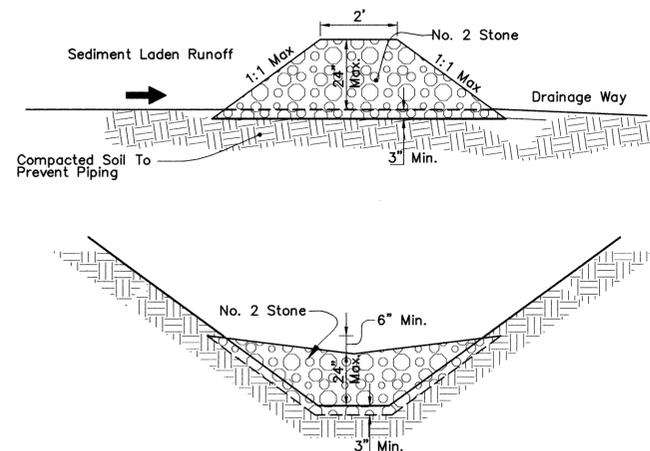


Sediment fence fabric shall be ODOT, Type C Geotextile fabric or the equivalent to the following properties:

MATERIAL PROPERTIES	
MAXIMUM TENSILE STRENGTH	120 lbs
MAXIMUM ELONGATION AT 60 LBS.	50%
MINIMUM PUNCTURE STRENGTH	50 lbs
MINIMUM TEAR STRENGTH	40 lbs
MINIMUM BURST STRENGTH	200 psf
APPARENT OPENING SIZE	0.84 mm
MINIMUM PERMITTIVITY	1 x 10 <sup>-2</sup> sec <sup>-1</sup>
ULTRAVIOLET EXPOSURE STRENGTH RETENTION	70%

SEDIMENT FENCE BARRIER DETAIL

SCALE: NONE



TEMPORARY ROCK CHECK DAM

SCALE: NONE

**Maintenance**  
Aggregate check dams shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.

Close attention shall be paid to the repair of damaged check dams, end runs and undercutting beneath dams.

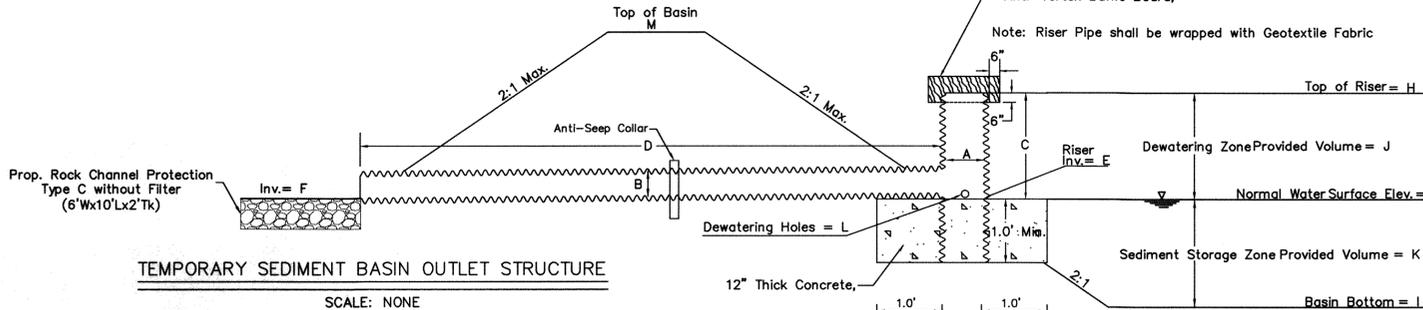
Necessary repairs to check dams shall be accomplished promptly.

Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reaches approximately one-half the height of the barrier.

Any sediment deposits remaining in place after the aggregate is no longer required shall be dressed to conform to the existing grade, prepared and seeded.

GENERAL NOTES:

- Sediment basins shall be constructed and operational before upslope land disturbance begins.
- RISER PIPE BASE:**  
The riser pipe shall be set at a minimum of 12 in. in the concrete base.
- TRASH RACKS:**  
The top of the riser shall be fitted with trash racks firmly fastened to the riser pipe.
- SEDIMENT CLEANOUT:**  
Sediment shall be removed and the sediment basin restored to its original dimensions when the sediment has filled to one-half the sediment storage zone. Sediment removed from the basin shall be placed so that it will not erode and stabilized similar to other fill material placed on the site.
- FINAL REMOVAL:**  
The sediment control structure shall be removed only after the upstream drainage area is stabilized.
- PAYMENT:**  
The cost of all labor and materials needed to complete the basin outlet structure shall be included in the price bid for item 207, Sediment Basin Outlet Structure. This work shall include the installation and removal of the pipe, riser, baffle board, concrete, geotextile and anti-seep collar.



TEMPORARY SEDIMENT BASIN OUTLET STRUCTURE

SCALE: NONE

SEDIMENT BASIN	TRIBUTARY ACREAGE (AC)	REQUIRED DEWATERING ZONE VOLUME AC * 67 CY	DISTURBED ACREAGE (AC)	REQUIRED STORAGE ZONE VOLUME AC * 37 CY	A	B	C	D	E	F	G	H	I	J	K	L	M
EAST	8.0	536.0 CY	5.7	211.0 CY	12"	12"	3.0'	30.0'	930.00	929.80	930.00	933.00	928.50	568.2 CY	218.0 CY	(4) 1" HOLES @ 930.00 (4) 1" HOLES @ 931.00 (4) 1" HOLES @ 932.00	INITIAL = 933.00 FINAL = 935.00
WEST	INITIAL = 39.3 FINAL = 28.8	INITIAL = 2,633.1 CY FINAL = 1,929.6 CY	INITIAL = 32.3 FINAL = 25.8	INITIAL = 1,195.1 CY FINAL = 954.6 CY	24"	24"	4.0'	30.0'	931.00	930.80	931.00	935.00	928.75	2645.0 CY	1196.2 CY	(8) 1" HOLES @ 931.00 (8) 1" HOLES @ 932.00 (8) 1" HOLES @ 933.00 (8) 1" HOLES @ 934.00	INITIAL = 935.00 FINAL = 936.20
NORTH	10.5	703.5 CY	6.6	244.2 CY	12"	12"	1.5'	30.0'	934.50	934.50	934.50	936.00	933.90	716.4 CY	262.9 CY	(6) 1" HOLES @ 934.50 (6) 1" HOLES @ 935.00 (6) 1" HOLES @ 935.50	FINAL = 936.00

NOTE: The West Basin "Initial" design is associated with the tributary area resulting from the initial clearing and grading activities. The West Basin "Final" design is associated with the tributary area resulting from the proposed filling activities.

11-024-CIP

REVISIONS  
MARK DATE DESCRIPTION

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
MASS EXCAVATION AND GRADING PLAN  
FOR  
SFIR-COIC SITE

**EMHT**  
Evans, Mechwart, Hambleton & Tilton, Inc.  
5500 New Albany Road  
Columbus, Ohio 43054  
Phone: (614) 471-5150  
Fax: (614) 470-9530  
emht.com

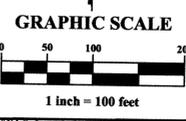
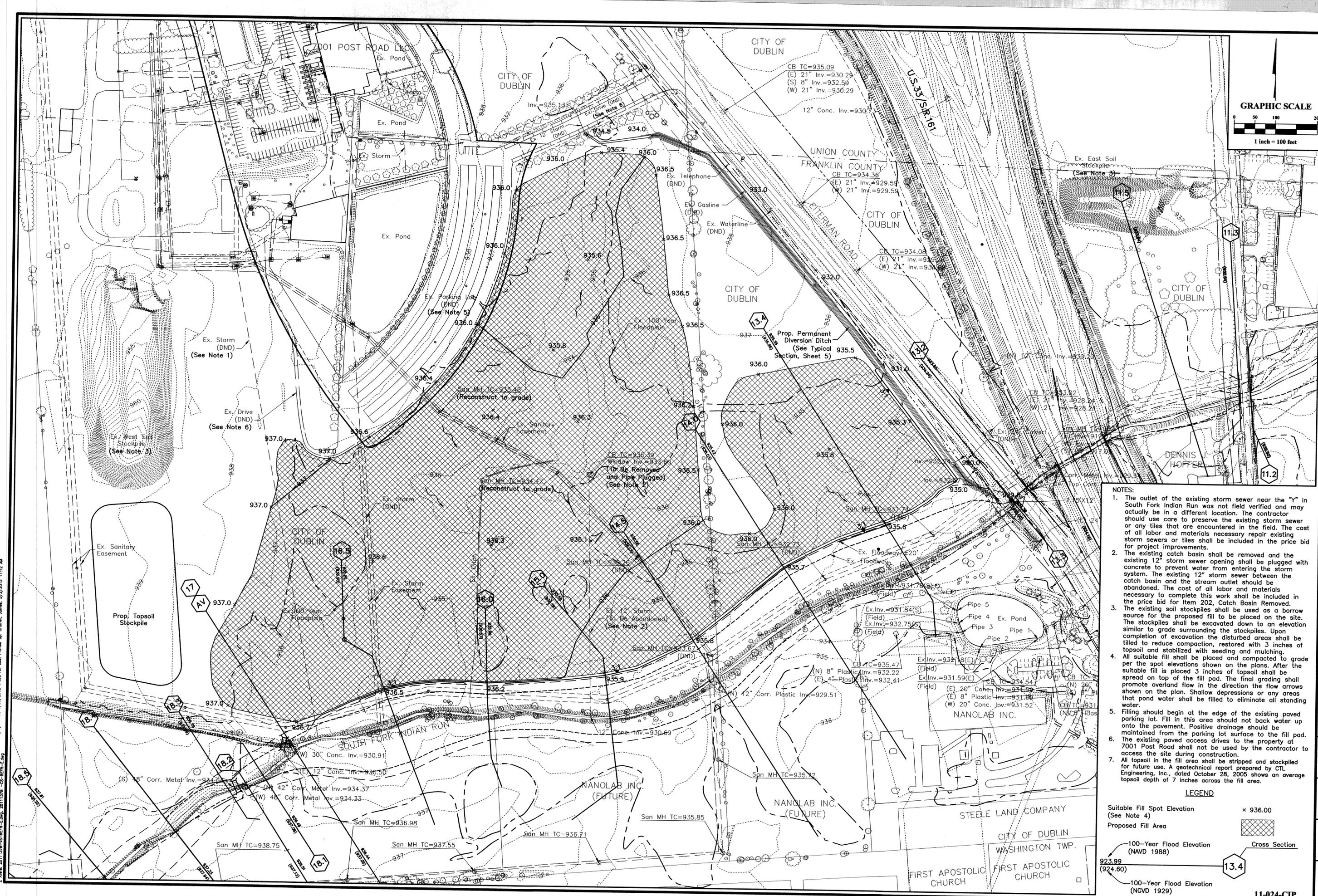
DATE  
April, 2012

SCALE  
1" = 100'

JOB NO.  
2011-1378

SHEET  
5/6

EROSION AND SEDIMENT CONTROL PLAN DETAILS



- NOTES:**
1. The outlet of the existing storm sewer near the "Y" in South Fork Indian Run was not field verified and may actually be in a different location. The contractor should use care to preserve the existing storm sewer or any tiles that are encountered in the field. The cost of all labor and materials necessary repair existing storm sewers or tiles shall be included in the price bid for project improvements.
  2. The existing catch basin shall be removed and the existing 12" storm sewer opening shall be plugged with concrete to prevent water from entering the storm system. The existing 12" storm sewer between the catch basin and the stream outlet should be abandoned. The cost of all labor and materials necessary to complete this work shall be included in the price bid for item 202, Catch Basin Removed.
  3. The existing soil stockpiles shall be used as a borrow source for the proposed fill to be placed on the site. The stockpiles shall be excavated down to an elevation similar to grade surrounding the stockpiles. Upon completion of excavation the disturbed areas shall be tilled to reduce compaction, restored with 3 inches of topsoil and stabilized with seeding and mulching.
  4. All suitable fill shall be placed and compacted to grade per the spot elevations shown on the plans. After the suitable fill is placed 3 inches of topsoil shall be spread on top of the fill pad. The final grading shall promote overland flow in the direction the flow arrows shown on the plan. Shallow depressions or any areas that pond water shall be filled to eliminate all standing water.
  5. Filling should begin at the edge of the existing paved parking lot. Fill in this area should not back water up onto the pavement. Positive drainage should be maintained from the parking lot surface to the fill pad.
  6. The existing paved access drives to the property at 7001 Post Road shall not be used by the contractor to access the site during construction.
  7. All topsoil in the fill area shall be stripped and stockpiled for future use. A geotechnical report prepared by CTL Engineering, Inc., dated October 28, 2005 shows an average topsoil depth of 7 inches across the fill area.

**LEGEND**

Suitable Fill Spot Elevation (See Note 4)	× 936.00
Proposed Fill Area	
100-Year Flood Elevation (NAVD 1988)	
100-Year Flood Elevation (NGVD 1929)	
Cross Section	

REVISIONS	MARK	DATE	DESCRIPTION



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**MASS EXCAVATION AND GRADING PLAN**  
 FOR  
**SFIR-COIC SITE**  
 GRADING PLAN

**EMHIT**  
 Evans, Mechwart, Hamblen & Tilton, Inc.  
 Engineers • Surveyors • Planners • Scientists  
 10000 W. Dublin Road, Dublin, OH 43017  
 Phone: 614.775.4500, Toll Free: 800.775.5244  
 emhit.com

DATE	April, 2012
SCALE	1" = 100'
JOB NO.	2011-1378
SHEET	6/6

DATE: 2011/03/28 10:58:30 AM, USER: jomiles, 9/27/2012 11:12 AM  
 2011/03/28 10:58:30 AM, USER: jomiles, 9/27/2012 11:12 AM