

**NOTE:**  
The pay limits for seeding and mulching shall be restricted to a maximum of 10 feet on either side of the new waterline or the right-of-way (or easement) line if the right-of-way (easement) is less than 10 feet from the proposed waterline.

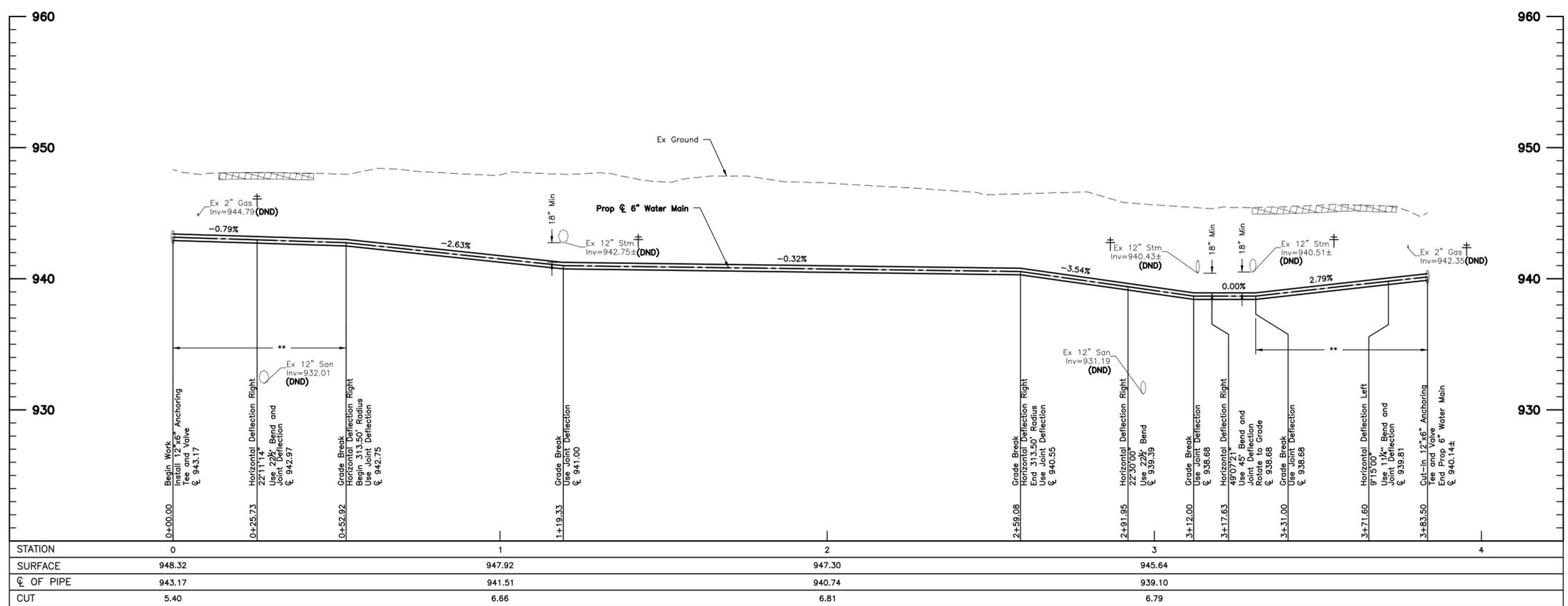
Water services as shown are based upon visual observation or other investigative measures. Contractor is responsible to verify existing curb box locations prior to waterline installation. The City shall be notified of significant discrepancies.

It is the intent of the improvement to minimize the impact of driveways associated with the service transfers. Drive repairs as shown represent the largest anticipated impact. If an opportunity can be identified (based upon field verification of the existing curb box and alignment of the service line beyond the curb box) that allows the service transfer to be completed without impacting the driveway the City shall be notified.

**STREET LIGHT NOTE:**  
Location of power feed for existing street light unknown. Excavate in this area with CAUTION!

- WSNF - Water Service not field located. Location Shown per tap card.
- Asphalt Pavement Repair (3\"/>
  - Concrete Drive Repair (Per COC Std Dwg 2160)
  - Asphalt Drive Repair (Per COC Std Dwg 2160)
  - 1 1/2\"/>

- ★ - Proposed Water Service to be Bored
- \*\* - Flowable Controlled Density Fill, Type II
- † - Location and Elevation as shown are approximate and based on available information. Contractor to locate and expose prior to installing water main.
- # - Use caution. Property known to have irrigation system.



**BID SET**  
NOT TO BE USED FOR CONSTRUCTION

PLAN SET DATE  
May, 2014

MARK	DATE	DESCRIPTION



CITY OF DUBLIN, OHIO  
WATERLINE REPLACEMENT  
**MUIRFIELD VILLAGE WATERLINE IMPROVEMENTS - PHASE 2 - 14-012-CIP**  
GLENFINNAN CT. PLAN & PROFILE



DATE  
May, 2014

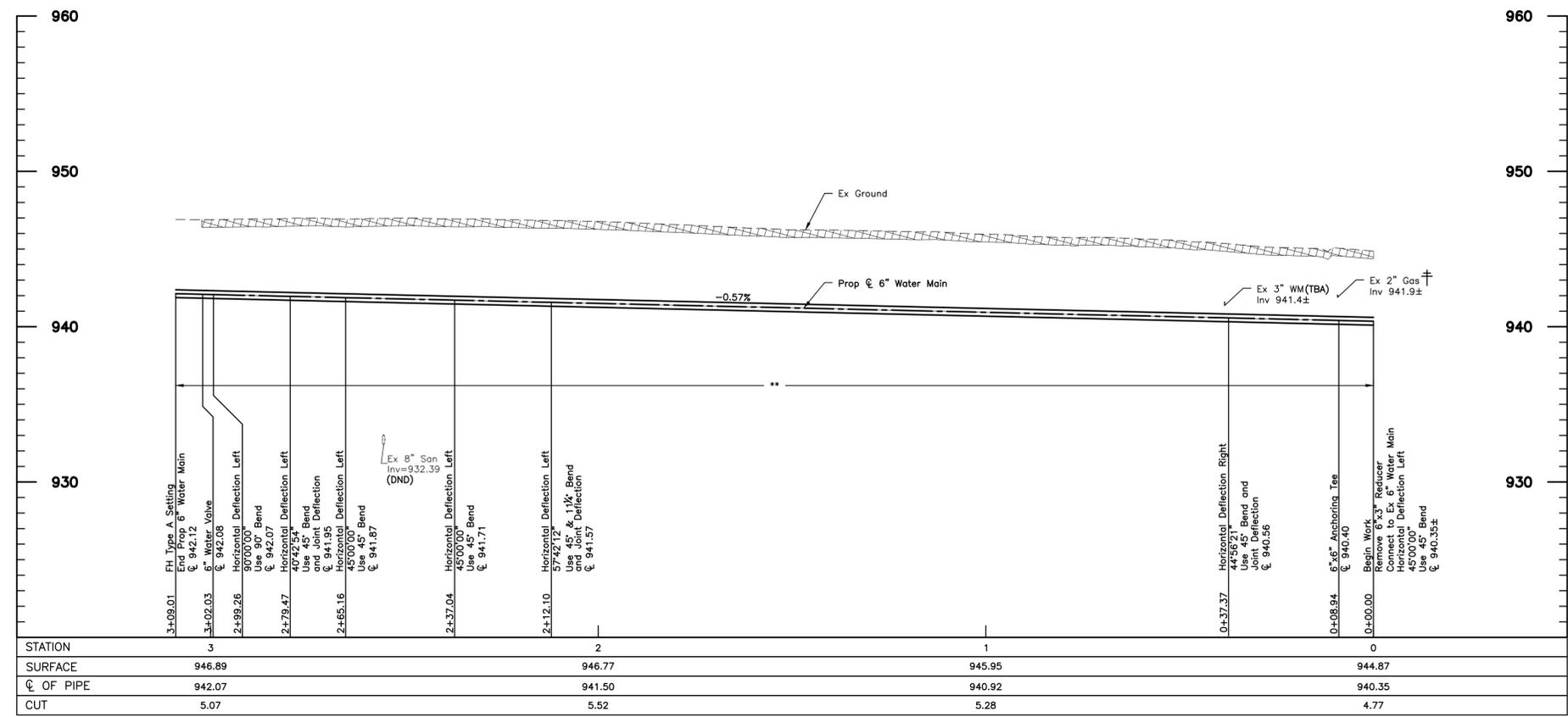
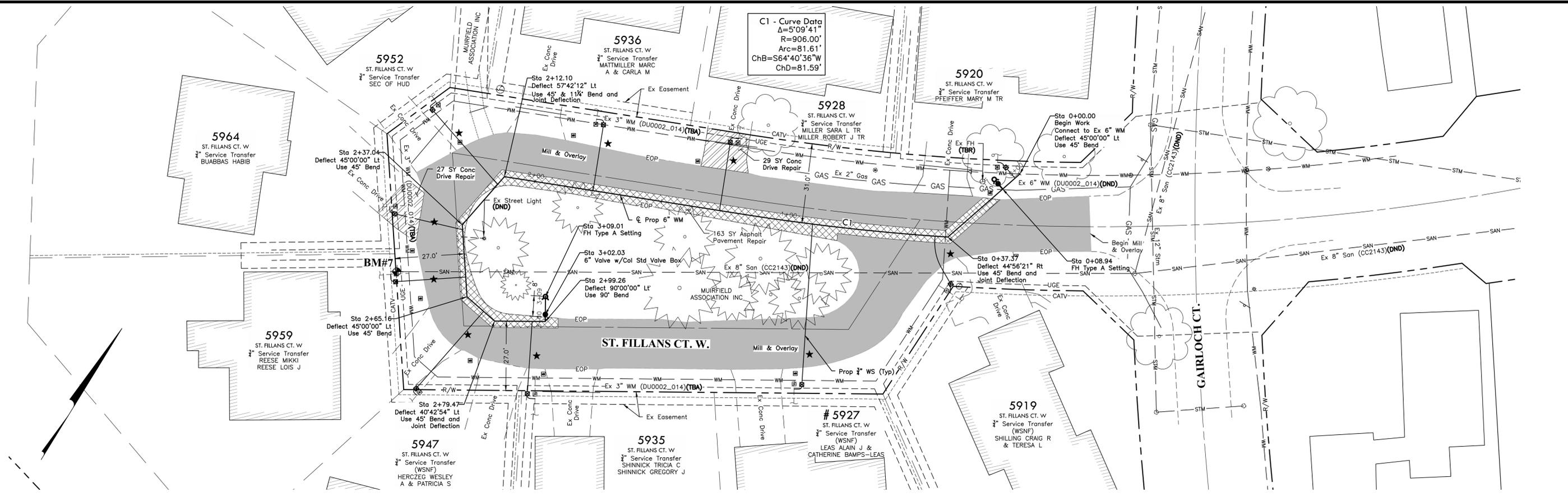
SCALE  
Horiz: 1" = 20'  
Vert: 1" = 5'

JOB NO.  
2014-0167

SHEET  
5/13

C:\2014\0167\Drawings\Sheets\5 - Glenfinnan Ct. Plan & Profile.dwg, Last Saved By: rborde, 5/20/2014 7:15 AM, Last Printed By: rborde, 5/20/2014 11:00 AM (No Xrefs)

C:\2014\01677\Drawings\Sheets\6 - St. Fillans Ct. W.dwg Last Saved By: mbdoline\_5/20/2014 7:19 AM Last Printed By: mbdoline\_5/20/2014 11:00 AM (No Xrefs)



**NOTE:**  
 The pay limits for seeding and mulching shall be restricted to a maximum of 10 feet on either side of the new waterline or the right-of-way (or easement) line if the right-of-way (easement) is less than 10 feet from the proposed waterline.  
 Water services as shown are based upon visual observation or other investigative measures. Contractor is responsible to verify existing curb box locations prior to waterline installation. The City shall be notified of significant discrepancies.  
 It is the intent of the improvement to minimize the impact of driveways associated with the service transfers. Drive repairs as shown represent the largest anticipated impact. If an opportunity can be identified (based upon field verification of the existing curb box and alignment of the service line beyond the curb box) that allows the service transfer to be completed without impacting the driveway the City shall be notified.  
**STREET LIGHT NOTE:**  
 Location of power feed for existing street light unknown. Excavate in this area with CAUTION!  
 WSNF - Water Service not field located. Location Shown per tap card.

- Asphalt Pavement Repair (3"-448 on 6"-301 Per RD-1)
- Concrete Drive Repair (Per COC Std Dwg 2160)
- Asphalt Drive Repair (Per COC Std Dwg 2160)
- 1 1/2" Mill & Overlay

- ★ - Proposed Water Service to be Bored
- \*\* - Flowable Controlled Density Fill, Type II
- † - Location and Elevation as shown are approximate and based on available information. Contractor to locate and expose prior to installing water main.
- # - Use caution. Property known to have irrigation system.

**BID SET**  
 .....  
**NOT TO BE USED FOR CONSTRUCTION**  
 PLAN SET DATE  
 May, 2014

MARK	DATE	DESCRIPTION



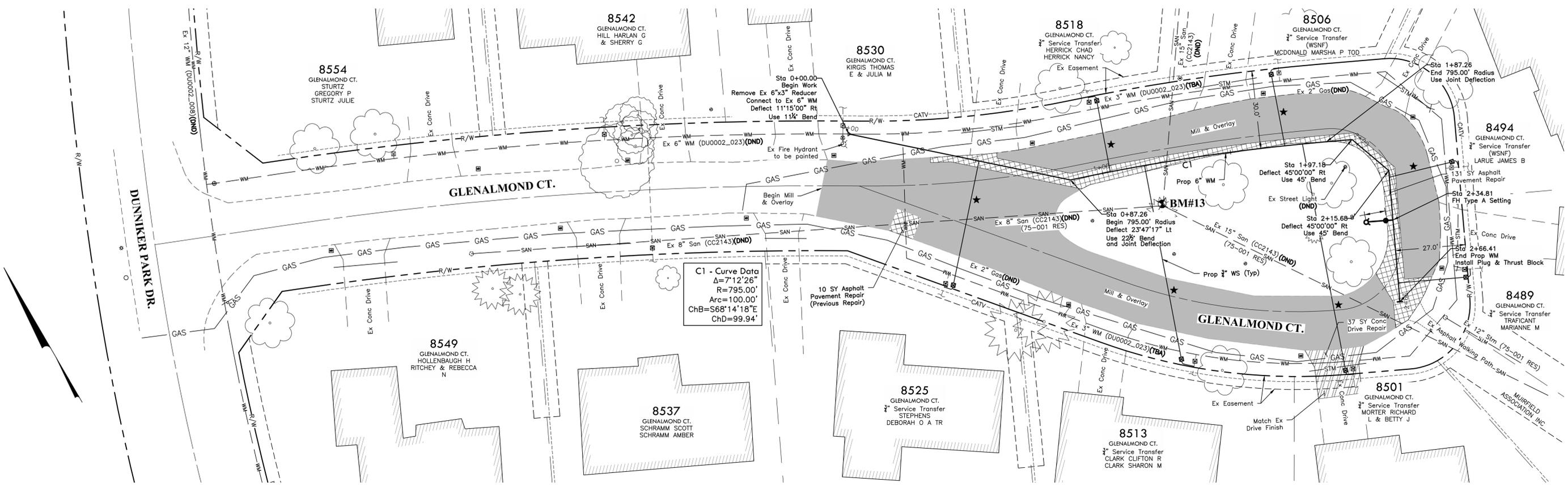
CITY OF DUBLIN, OHIO  
 WATERLINE REPLACEMENT  
**MUIRFIELD VILLAGE WATERLINE IMPROVEMENTS - PHASE 2 - 14-012-CIP**  
 ST. FILLANS CT. W. PLAN & PROFILE



DATE	May, 2014
SCALE	Horiz: 1" = 20' Vert: 1" = 5'
JOB NO.	2014-0167
SHEET	6/13



I:\2014\01677\Draw\04Sheets\B\_Glenalmond.ctb - Plan & Profile.dwg - Last Saved By: mbedina\_5/20/2014 9:02 AM - Printed By: mbedina\_5/20/2014 11:01 AM (No Xrefs)



**NOTE:**  
 The pay limits for seeding and mulching shall be restricted to a maximum of 10 feet on either side of the new waterline or the right-of-way (or easement) line if the right-of-way (easement) is less than 10 feet from the proposed waterline.

Water services as shown are based upon visual observation or other investigative measures. Contractor is responsible to verify existing curb box locations prior to waterline installation. The City shall be notified of significant discrepancies.

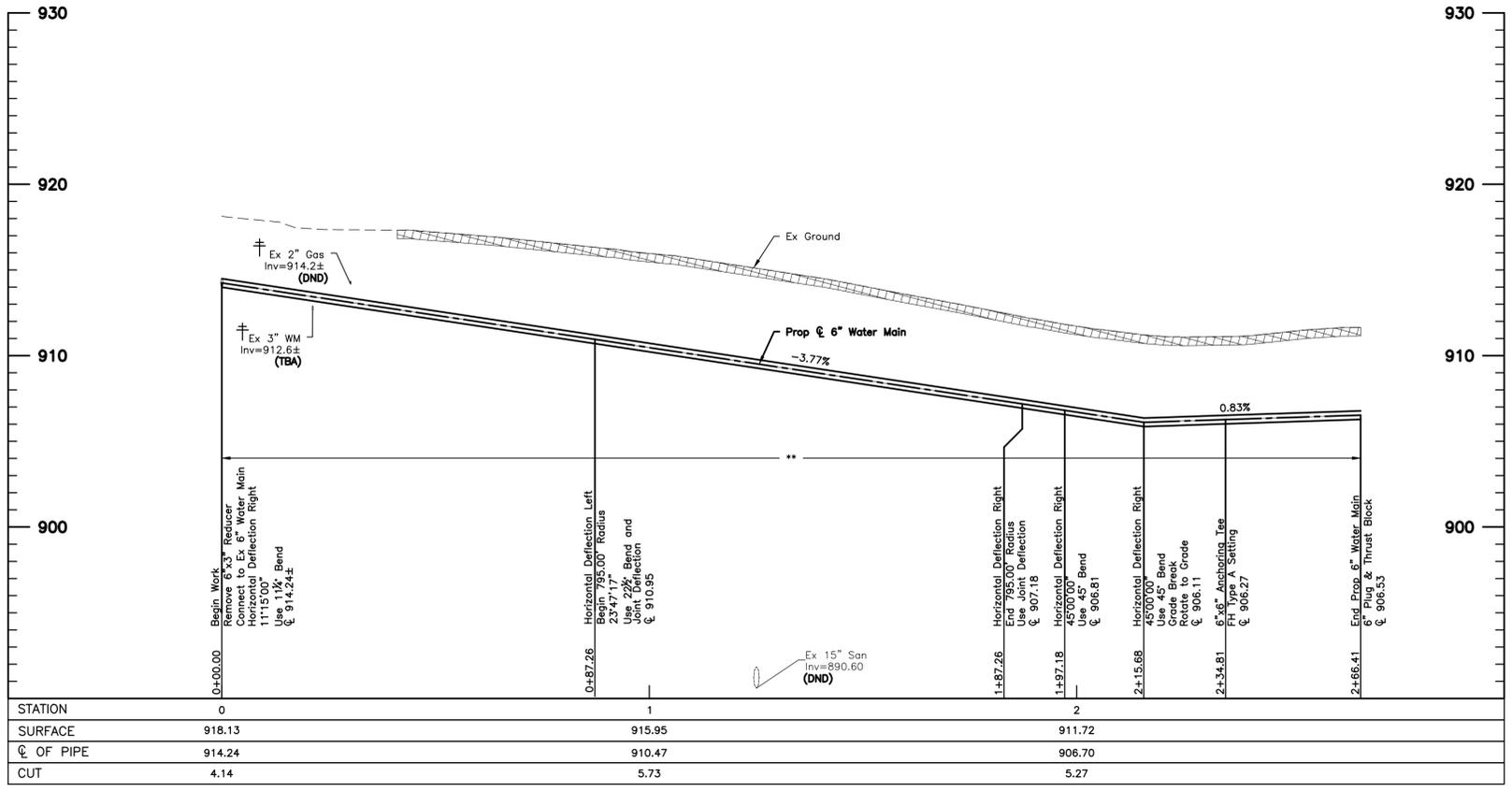
It is the intent of the improvement to minimize the impact of driveways associated with the service transfers. Drive repairs as shown represent the largest anticipated impact. If an opportunity can be identified (based upon field verification of the existing curb box and alignment of the service line beyond the curb box) that allows the service transfer to be completed without impacting the driveway the City shall be notified.

**STREET LIGHT NOTE:**  
 Location of power feed for existing street light unknown. Excavate in this area with CAUTION!

- WSNF - Water Service not field located. Location Shown per tap card.
- Asphalt Pavement Repair (3\"/>

- ★ - Proposed Water Service to be Bored
- - Flowable Controlled Density Fill, Type II
- † - Location and Elevation as shown are approximate and based on available information. Contractor to locate and expose prior to installing water main.
- # - Use caution. Property known to have irrigation system.

**BID SET**  
 .....  
**NOT TO BE USED FOR CONSTRUCTION**  
 .....  
**PLAN SET DATE**  
 May, 2014



REVISIONS	MARK	DATE	DESCRIPTION



CITY OF DUBLIN, OHIO  
 WATERLINE REPLACEMENT  
**MUIRFIELD VILLAGE WATERLINE IMPROVEMENTS - PHASE 2 -**  
**14-012-CIP**  
 GLENALMOND CT. PLAN & PROFILE

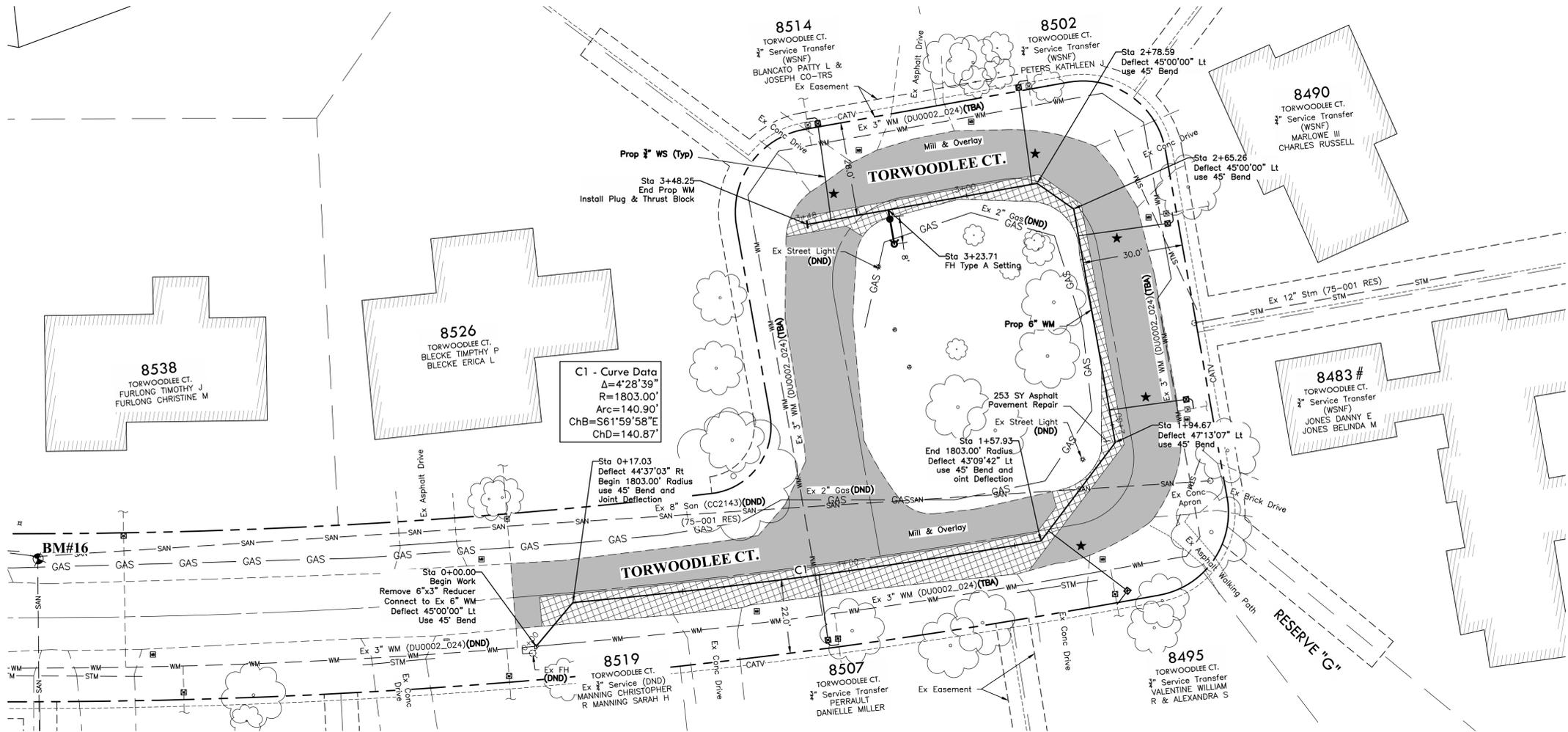


DATE  
 May, 2014

SCALE  
 Horiz: 1" = 20'  
 Vert: 1" = 5'

JOB NO.  
 2014-0167

SHEET  
 8/13



**C1 - Curve Data**  
 $\Delta = 4^{\circ}28'39''$   
 $R = 1803.00'$   
 $Arc = 140.90'$   
 $ChB = S61^{\circ}59'58''E$   
 $ChD = 140.87'$

**NOTE:**  
 The pay limits for seeding and mulching shall be restricted to a maximum of 10 feet on either side of the new waterline or the right-of-way (or easement) line if the right-of-way (easement) is less than 10 feet from the proposed waterline.

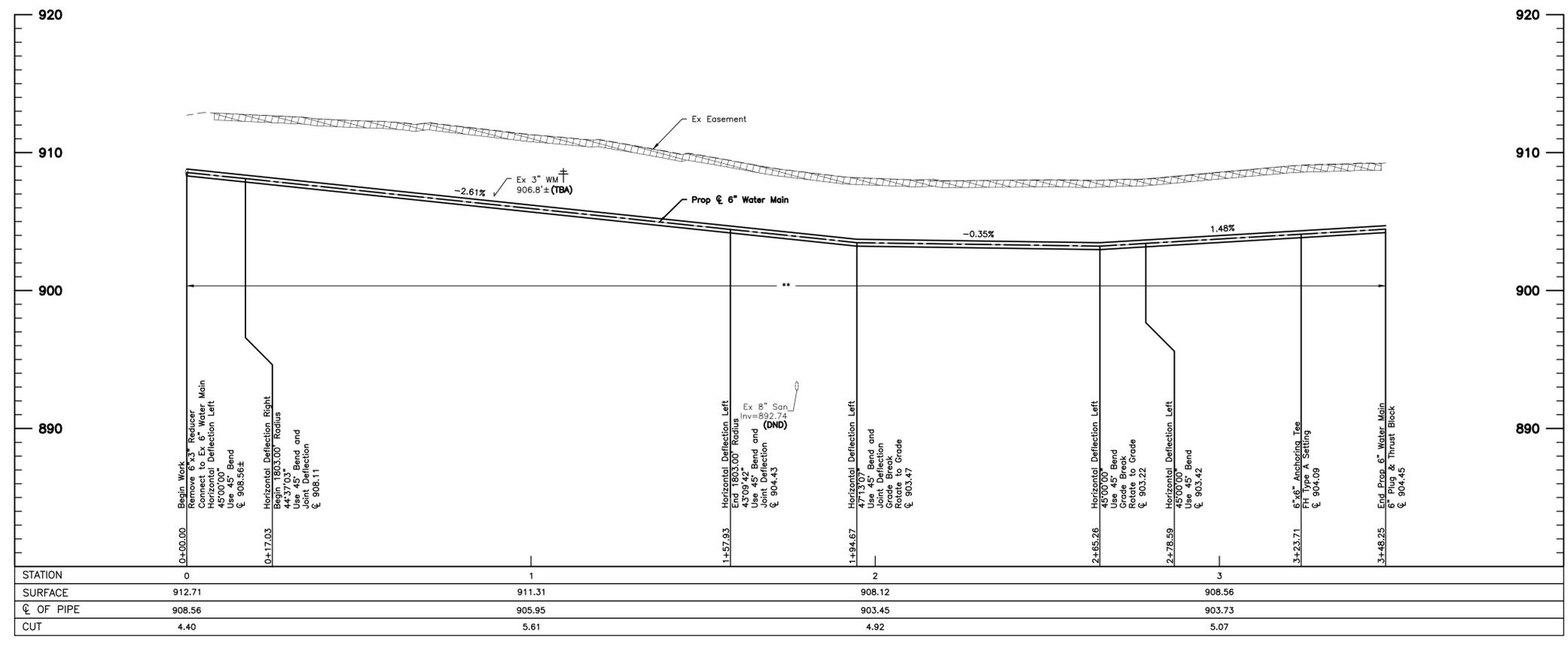
Water services as shown are based upon visual observation or other investigative measures. Contractor is responsible to verify existing curb box locations prior to waterline installation. The City shall be notified of significant discrepancies.

It is the intent of the improvement to minimize the impact of driveways associated with the service transfers. Drive repairs as shown represent the largest anticipated impact. If an opportunity can be identified (based upon field verification of the existing curb box and alignment of the service line beyond the curb box) that allows the service transfer to be completed without impacting the driveway the City shall be notified.

**STREET LIGHT NOTE:**  
 Location of power feed for existing street light unknown. Excavate in this area with CAUTION!

- WSNF - Water Service not field located. Location Shown per tap card.
- Asphalt Pavement Repair (3"-448 on 6"-301 Per RD-1)
  - Concrete Drive Repair (Per COC Std Dwg 2160)
  - Asphalt Drive Repair (Per COC Std Dwg 2160)
  - 1 1/2" Mill & Overlay

- ★ - Proposed Water Service to be Bored
- \*\* - Flowable Controlled Density Fill, Type II
- † - Location and Elevation as shown are approximate and based on available information. Contractor to locate and expose prior to installing water main.
- # - Use caution. Property known to have irrigation system.



**BID SET**  
 NOT TO BE USED FOR  
 CONSTRUCTION

**PLAN SET DATE**  
 May, 2014

MARK	DATE	DESCRIPTION

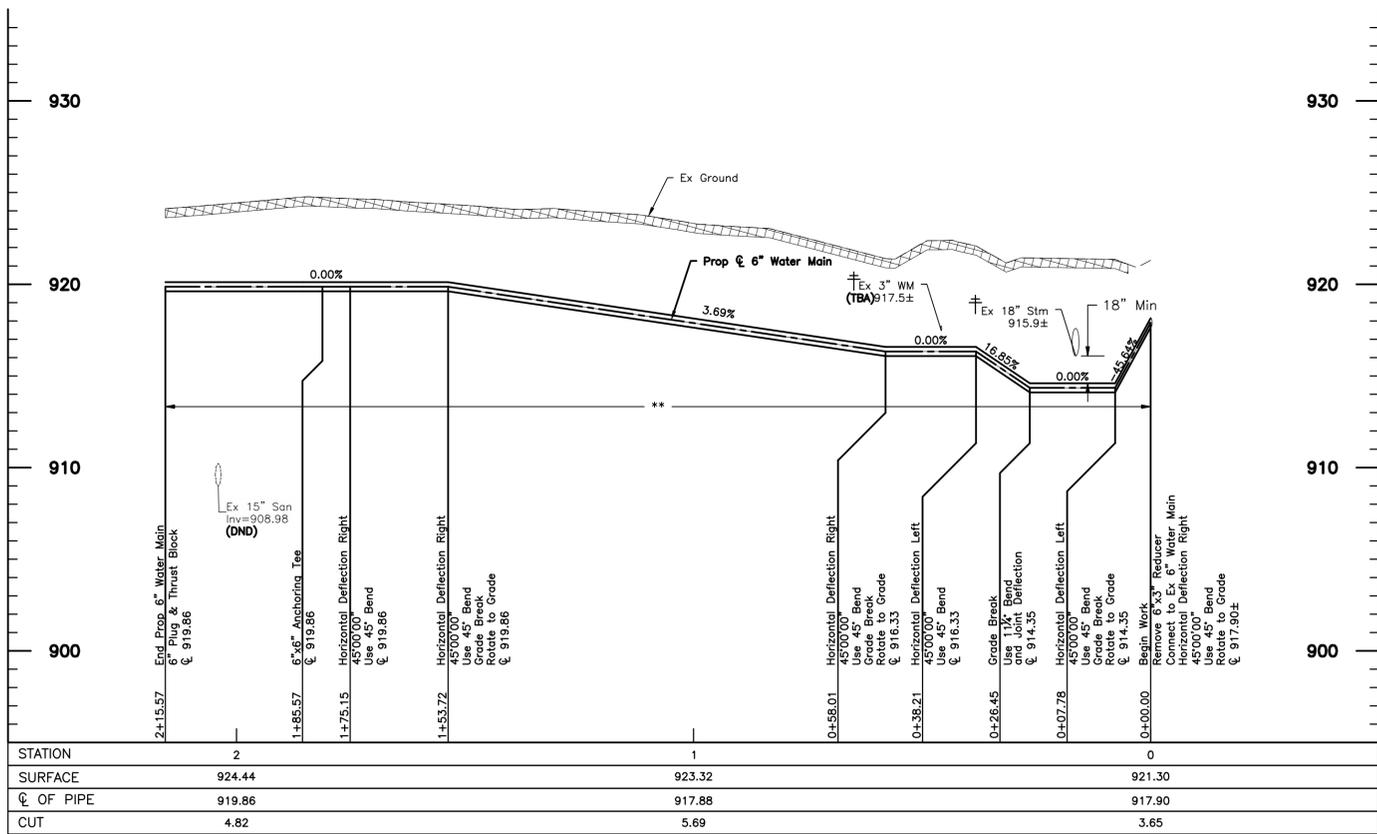
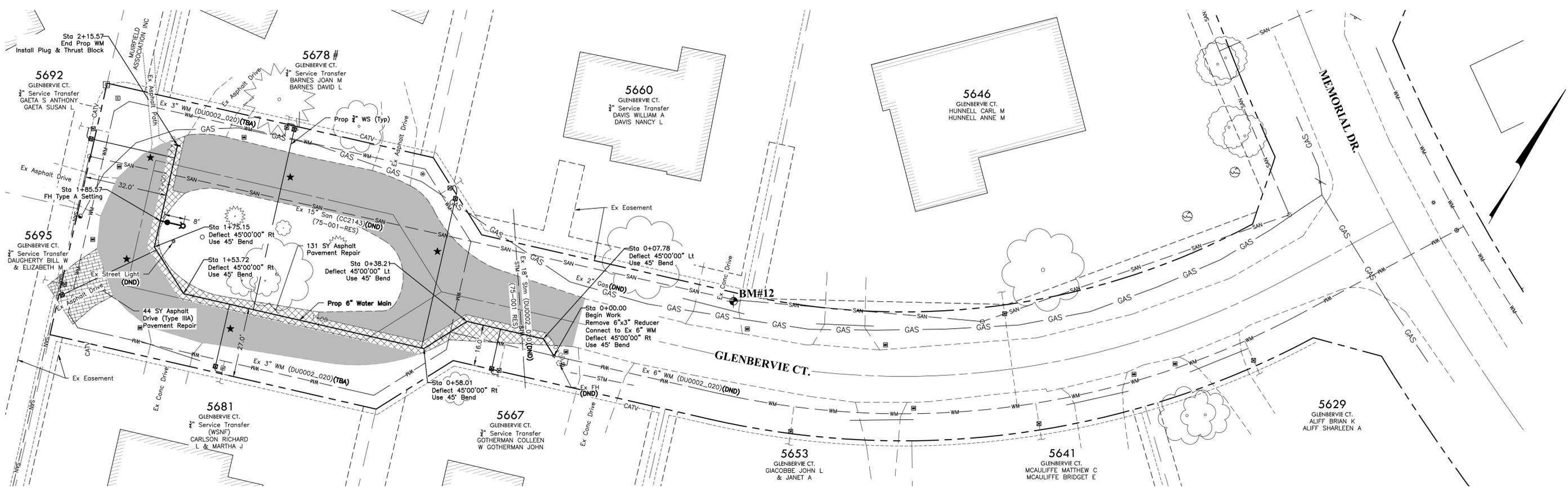


CITY OF DUBLIN, OHIO  
 WATERLINE REPLACEMENT  
**MUIRFIELD VILLAGE WATERLINE  
 IMPROVEMENTS - PHASE 2 -  
 14-012-CIP**  
 TORWOODLEE CT. PLAN & PROFILE



DATE	May, 2014
SCALE	Horiz: 1" = 20' Vert: 1" = 5'
JOB NO.	2014-0167
SHEET	9/13

14-012-CIP-TORWOODLEE CT. PLAN & PROFILE.dwg, Last Saved By: mboedine, 5/20/2014, 9:23 AM, Last Printed By: Bodine, Michael, 5/20/2014, 11:01 AM, No Xrefs



**NOTE:**  
The pay limits for seeding and mulching shall be restricted to a maximum of 10 feet on either side of the new waterline or the right-of-way (or easement) line if the right-of-way (easement) is less than 10 feet from the proposed waterline.

Water services as shown are based upon visual observation or other investigative measures. Contractor is responsible to verify existing curb box locations prior to waterline installation. The City shall be notified of significant discrepancies.

It is the intent of the improvement to minimize the impact of driveways associated with the service transfers. Drive repairs as shown represent the largest anticipated impact. If an opportunity can be identified (based upon field verification of the existing curb box and alignment of the service line beyond the curb box) that allows the service transfer to be completed without impacting the driveway the City shall be notified.

**STREET LIGHT NOTE:**  
Location of power feed for existing street light unknown. Excavate in this area with CAUTION!

- WSNF - Water Service not field located. Location Shown per tap card.
- Asphalt Pavement Repair (3"-448 on 6"-301 Per RD-1)
  - Concrete Drive Repair (Per COC Std Dwg 2160)
  - Asphalt Drive Repair (Per COC Std Dwg 2160)
  - 1 1/2" Mill & Overlay
- ★ - Proposed Water Service to be Bored
  - \*\* - Flowable Controlled Density Fill, Type II
  - † - Location and Elevation as shown are approximate and based on available information. Contractor to locate and expose prior to installing water main.
  - # - Use caution. Property known to have irrigation system.

**BID SET**  
NOT TO BE USED FOR  
CONSTRUCTION

PLAN SET DATE  
May, 2014

MARK	DATE	DESCRIPTION



**CITY OF DUBLIN, OHIO**  
WATERLINE REPLACEMENT  
**MUIRFIELD VILLAGE WATERLINE**  
IMPROVEMENTS - PHASE 2 -  
14-012-CIP  
GLENBERRIE CT. PLAN & PROFILE



DATE	May, 2014
SCALE	Horiz: 1" = 20' Vert: 1" = 5'
JOB NO.	2014-0167
SHEET	10/13

I:\2014\0167\Drawings\Sheets\12\_Glenberrie\_Ct\_Plan\_Profile.dwg Last Saved By: embdine\_5/20/2014 7:39 AM Last Printed By: Radline, Michael\_5/20/2014 11:01 AM (No Xrefs)

**ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN**

The intent of the maintenance of traffic plan for the construction of the new waterlines along Glenfinnan Ct., St. Fillans Ct., Moray Ct., Glenalmond Ct., Torwoodlee Ct. and Glenberrie Ct. is to allow for closure of the roadways during active working hours. Barricades shall be placed at the entrance to each street prior to starting work operations each day and the barricades shall be removed from the roadway at the completion of work each day. At the end of each day all excavations shall be backfilled (within 6 inches of existing grade outside of the pavement and within 2 inches of existing grade within pavement areas) or securely plated. NO open excavations will be permitted over night or while work is not active. During active working hours, the Contractor shall make provisions to allow residents (vehicles and pedestrian) safe access to their properties. These provisions may include plating open excavations or placement of compacted stone to allow temporary access to driveways. The Contractor shall coordinate with the City to provide notice directly to each residence concerning times when access may be limited.

**PAYMENT**

Payment for all materials and labor related to maintaining traffic shall be incidental to item 614, maintaining traffic, as per plan, unless separately itemized within.

**GENERAL**

All traffic control devices shall be furnished, erected, maintained and removed by the Contractor in accordance with the "Ohio Manual of Uniform Traffic Control Devices" (Current Edition), copies of which are available from the Ohio Department of Transportation, Office of Traffic Engineering, 1980 West Broad Street, Columbus, Ohio 43223.

The roadway shall not be opened to traffic until permanent traffic controls are in place, or until temporary traffic controls, approved by the Engineer, are installed. The Contractor assumes all liability for the premature removal of temporary traffic controls.

The Contractor shall be responsible for the reinstallation and/or replacement of all permanent traffic control devices damaged or removed during the construction. Permanent traffic control that is no longer in conflict with temporary traffic control shall be replaced immediately. The Contractor shall assume all liability for missing, damaged and improperly placed traffic control devices.

The contractor shall provide a 24 hour contact who will be responsible for maintenance of traffic for the duration of the project.

Construction operations shall not begin until all temporary traffic control devices are in place and approved by the Engineer and the City.

Maintenance of all traffic control devices including drums, signs, barricades, sign boards, detour signage, etc., shall be the Contractor's responsibility.

All trenches shall be backfilled or securely plated during all nighttime and non-working hours.

Drop off within the work zone shall conform to the requirements set forth on ODOT Standard Construction Drawing MT-101.90

The Contractor shall submit a closure schedule to the City of Dublin for approval prior to initiating any closure.

**CONSTRUCTION INITIATION**

The Contractor will notify the City of Dublin 14 days prior to the start of construction activities. The Contractor will immediately inform the City of Dublin of any and all delays and/or changes regarding the construction project. The City Engineer will provide clarification for any questions about the notification requirements.

**TEMPORARY PAVEMENT MARKINGS**

All materials and labor associated with the installation and removal of temporary pavement markings shall be included in the lump sum contract price for Item 614 Maintaining Traffic, As Per Plan.

**ALTERNATE METHODS**

The Contractor may submit alternative methods for the maintenance of traffic provided the intent of the above provisions is followed and no additional inconvenience to the traveling public results from the change. No alternative plan shall be placed in effect until approval has been received from the City of Dublin in writing.

**LOCAL ACCESS**

Ingress and egress shall be maintained to all residential and commercial properties. Driveway closure may be necessary to enable work on or in front of a drive. The Contractor will be responsible for notifying owners, residents, or business operators in writing at least 48 hours but not more than 72 hours prior to closure. The Engineer shall be given a list of the persons that were given notices with the date of notice included. Closure is permitted only during work hours and access must be returned at the end of each working day. Properties with multiple drives may have one drive closed at a time, while work is performed in the area of the closed drive.

Individual drive closures shall be kept to the minimum time needed for construction activities. Every effort must be made to accommodate the owner's need for access.

**PEDESTRIAN ACCESS**

The Contractor shall be responsible for the protection and safe movement of pedestrians through, around, and away from the construction site.

The safety of pedestrian traffic shall be considered at all times in the provision of traffic control devices required by these plans and notes. It shall be the Contractor's responsibility to provide lights, signs, barricades, and other warnings to physically separate the pedestrian from hazards incidental to the construction operations such as open excavations, etc. at all time, the pedestrian mot shall be subject to the approval of the Engineer.

**NOISE CONTROL**

Activities and land use adjacent to this project may be adversely affected by construction noise. In order to minimize such effects, any power-operated construction-type device shall not be operated between the hours of 9 pm and 6 am. In addition, no such device shall be operated at any time or in such a manner that the noise created substantially exceeds that customarily and necessarily attendant to the reasonable and efficient performance of such equipment.

**COVERING SIGNS**

The Contractor shall cover all existing signs that conflict with maintenance of traffic signs. Covering of signs shall be in accordance with 614.05. Costs for covering signs shall be included in item 614 - Maintaining Traffic, As per Plan.

**CONFLICTING MARKINGS**

The Contractor shall, prior to placing temporary markings, remove all existing conflicting markings visible to the traveling public during daylight or nighttime hours in accordance with 641.10. The cost for removal of conflicting markings shall be incidental to item 614, Maintaining Traffic, As Per Plan.

**EXISTING TRAFFIC SIGN MAINTENANCE**

Special care shall be taken to maintain existing street name signs and stop signs. If necessary, the Contractor shall relocate these signs out of the way of construction, but in conformance with OMUTCD.

**SIGNS, BARRICADES, AND VERTICAL PANELS**

All construction signs, barricades, vertical panels, and drums shall conform to OMUTCD and the latest revision of the ODOT Construction and Material Specifications.

All construction signage shall be installed and covered before construction begins. After construction sign installation, the Contractor shall notify the Engineer three working days before work begins and request an inspection of all signage.

Faces of construction signs and reflective sheeting on barricades shall be type "H" (VIP). All orange construction signs shall be fluorescent orange. All sheeting will be tested for reflectivity per ODOT 730.192. vertical panels and drum bands shall be reflectorized with type "G" (high intensity) sheeting complying with the requirements of 730.19. All signs and barricades, vertical panels, and drums will be like new and in good condition in conformance with "Quality Standards for Work Zone Traffic Control Devices" published by ATSSA.

Maintenance of all Contractor supplied signs, barricades, vertical panels, and drums is the Contractor's responsibility. If the Contractor fails to correct deficiencies within four hours of notification, the City will correct or hire someone to correct the deficiencies. The Contractor will then be back charged per ODOT specification 614.04. In the case that back charging the Contractor is not applicable, the City will rescind and withhold all permits issued to the Contractor to work within City right-of-way until the issue is settled.

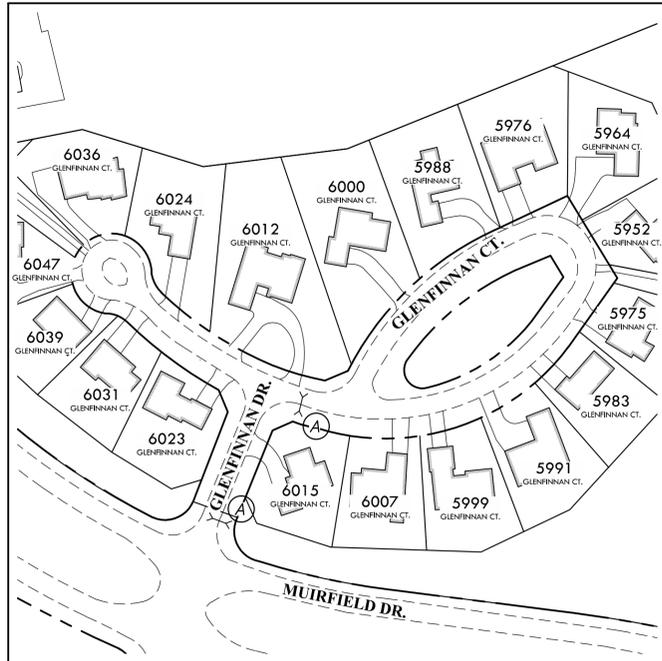
These provisions shall not in any way relieve the Contractor of any of his legal responsibilities or liabilities for the safety of the public.

All barricades at closures shall have yellow type "C" steady burn lights. all barrels in tapers shall have yellow type "C" steady burn lights.

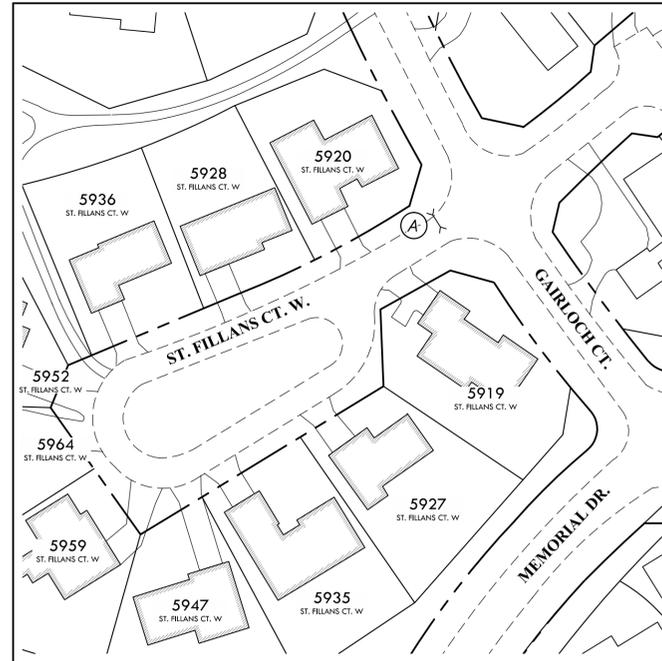
All advance signing shall be equipped with type "A" flashing lights and (2) orange flags (24"x24"). Lights are not required on signs in place during daylight hours.

Cones are not approved for use at night.

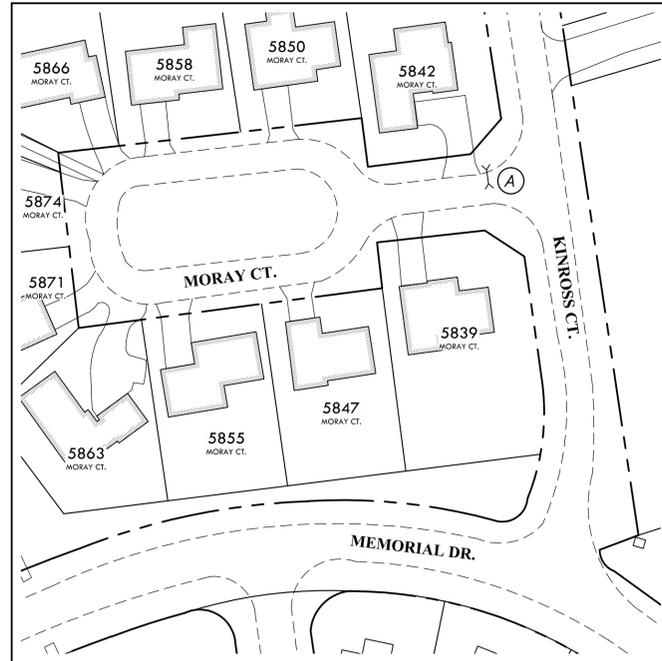
Drums shall be placed as follows: 25' c/c on tangents, 10' c/c on tapers, and 8' c/c in radii.



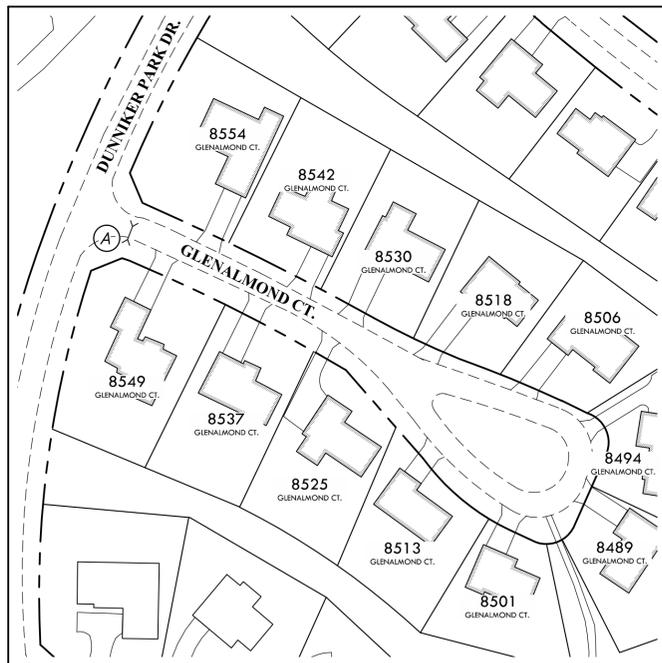
**GLENFINNAN COURT MAINTENANCE OF TRAFFIC SCHEMATIC**  
Scale: 1" = 100'



**ST. FILLANS COURT WEST MAINTENANCE OF TRAFFIC SCHEMATIC**  
Scale: 1" = 60'



**MORAY COURT MAINTENANCE OF TRAFFIC SCHEMATIC**  
Scale: 1" = 60'



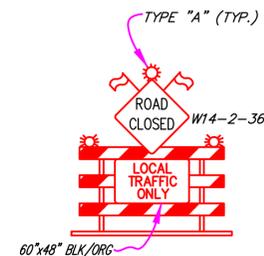
**GLENALMOND COURT MAINTENANCE OF TRAFFIC SCHEMATIC**  
Scale: 1" = 80'



**TORWOODLEE COURT MAINTENANCE OF TRAFFIC SCHEMATIC**  
Scale: 1" = 100'



**GLENBERRIE COURT MAINTENANCE OF TRAFFIC SCHEMATIC**  
Scale: 1" = 80'



60"x48" BLK/ORG

(A)

MARK	DATE	DESCRIPTION	REVISIONS



CITY OF DUBLIN, OHIO  
WATERLINE REPLACEMENT  
**MUIRFIELD VILLAGE WATERLINE  
IMPROVEMENTS - PHASE 2 -  
14-012-CIP**  
MAINTENANCE OF TRAFFIC NOTES & DETAILS



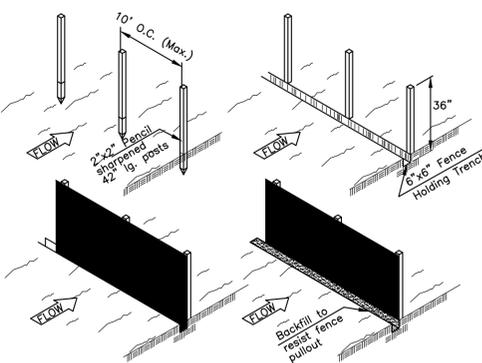
DATE	May, 2014
SCALE	As Noted
JOB NO.	2014-0167
SHEET	11/13

**BID SET**  
NOT TO BE USED FOR  
CONSTRUCTION

PLAN SET DATE  
May, 2014

I:\2014\0167\_Dwn\AsSheets\11\_Maintenance of Traffic.dwg, Last Saved: By: Boline, Michael, 5/20/2014, 7:41:41 AM, Last Printed: By: Boline, Michael, 5/20/2014, 11:01:41 AM (No Xrefs)

**SEDIMENT FENCE DETAIL**



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 psi
Apparent Opening Size	0.84 mm
Minimum Permeability	1 X 10 sec
Ultraviolet Exposure Strength Retention	70%

**SEDIMENT FENCE**

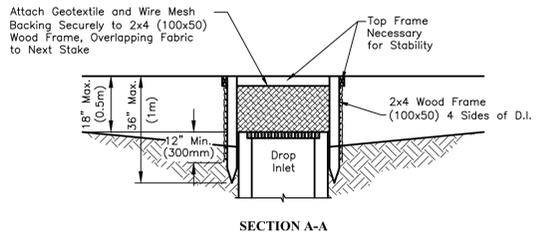
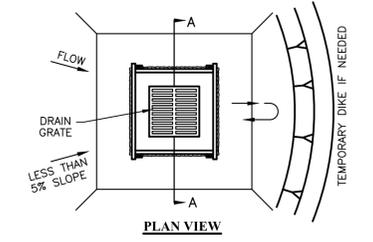
This sediment barrier utilizes standard strength or extra strength synthetic filter fabrics. It is designed for situations in which only sheet or overlaid flows are expected. Material Properties are listed in the provided table.

- The height of a sediment fence shall not exceed 36 inches (higher fences may impound volumes of water sufficient to cause failure of the structure).
- The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum of a 6 inch overlap, and securely sealed.
- Posts shall be spaced a maximum of 10 feet apart at the barrier location and driven securely into the ground (minimum of 12 inches). Wood posts will be a minimum of 32 inches long. When extra strength fabric is used without the wire support fence, post spacing shall not exceed 6 feet.
- A trench shall be excavated approximately 6 inches wide and 6 inches deep along the line of posts and upslope from the barrier.
- When standard strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least 1 inch long, tie wires or hog rings. The wire shall extend into the trench a minimum of 2 inches and shall not extend more than 36 inches above the original ground surface.
- The standard strength filter fabric shall be stapled or wired to the fence, and 8 inches of the fabric shall be extended into the trench. The fabric shall not extend more than 36 inches above the original ground surface. Filter fabric shall not be stapled to existing trees.

- When extra strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts with all other provisions of Item No. 6 applying.
- The trench shall be backfilled and soil compacted over the filter fabric.
- Silt fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.
- To prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.

**MAINTENANCE**  
Sediment fence shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.  
Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier is still necessary, the fabric shall be replaced promptly.  
Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier. Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.

**FILTER FABRIC INLET PROTECTION**



- NOTES:**
- Drop Inlet Sediment Barriers are to be used for small, nearly level drainage areas. (less than 5%)
  - Use 2"x4" (100x50mm) wood or equivalent metal stakes, 3' (1m) minimum length.
  - Install 2"x4" (100x50mm) wood top frame to insure stability.
  - The top of the frame (ponding height) must be well below the ground elevation downslope to prevent runoff from bypassing the inlet. A temporary dike may be necessary on the downslope side of the structure.
  - Wire mesh backing shall be of sufficient strength to support the geotextile fabric with runoff fully impounding against the structure.
  - The geotextile shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight.
  - Backfill shall placed around the inlet and compacted to ensure that runoff will not undercut the fabric.
- MAINTENANCE:**  
The filter fabric shall be cleaned with a stiff broom. Assure that the filter fabric and geotextile is securely fastened to the frame of the structure. Backfill around the structure shall be compacted as needed to assure that runoff is not undercutting the structure.

**CONTRACTOR'S RESPONSIBILITIES:**

Prior to Construction Operations in a particular area, all sedimentation and erosion control features shall be in place. Field adjustment with respect to locations may be made by the Engineer and/or OEPA as requested.  
Details have been provided on the plans 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 alternate 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 stormwater Discharges Associated with Construction Activity.

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, City of Dublin and the Ohio EPA.

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

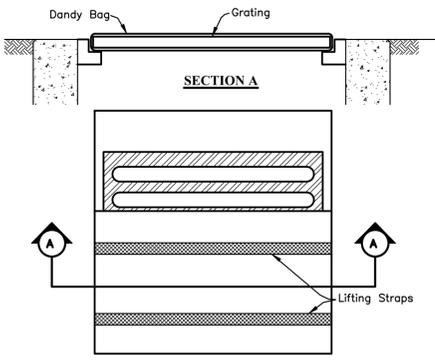
The Contractor shall be responsible to ensure that no solid or liquid waste is discharged into stormwater runoff. Untreated sediment-laden runoff shall not flow off of site without being directed through a control practice. Concrete trucks will not be allowed to wash out or discharge surplus concrete into or alongside rivers, streams, or creeks or into natural or man-made channels or swales leading thereto. Concrete wash water and surplus concrete shall be confined to approved areas; after solidifying, these waste materials shall be removed from the site.

The Contractor shall remove all temporary erosion and sedimentation controls upon permanent stabilization of the site.

The cost for temporary filter bags and pumping operations shall be included in the price bid for erosion and sedimentation quantities.

**TEMPORARY AND PERMANENT SEEDING:**  
The limits of seeding and mulching are indicated on the plan. Seeding has been assumed to be the work limits or right-of-way, whichever is greater. 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.

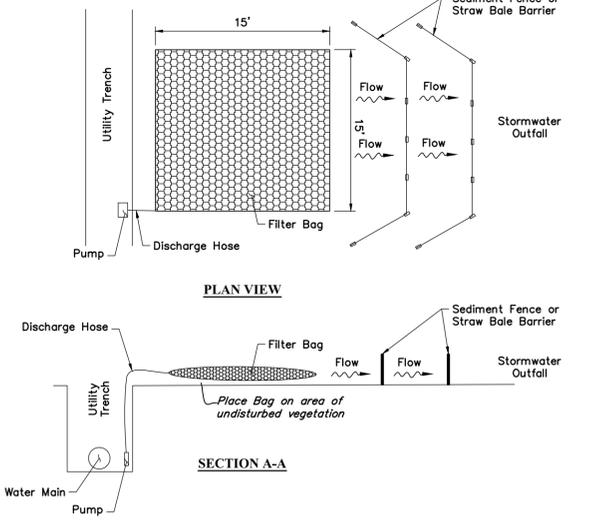
**DANDY BAG OR EQUAL**



**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 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.

**TRENCH DEWATERING FILTER BAG**



**INSTALLATION:**  
The Contractor shall pump muddy water encountered within the utility trench into a filter fabric bag. The bag shall be placed within a level undisturbed area as far away from the stormwater outfall as possible. The bag shall be placed on top of an aggregate pad. Perimeter controls such as straw bale barriers or sediment fence shall be utilized along the downstream side of the bag. The perimeter controls shall be installed to ensure that the water flowing out of the bag does not flow around the ends of the controls. Upon completion, the bag shall be removed to an area away from the stormwater outfall and opened. The accumulated sediment shall be spread out to allow to dry and stabilized with vegetation. Filterbag shall be JMD Enviro-Protection Filter Bag, size is 15'x15' or equal.

**MAINTENANCE:**  
The filter bag shall be replaced when the bag is half filled with sediment.  
The Contractor shall contact the project inspector/engineer for consultative services if dewatering activities overwhelm the filter bag and perimeter controls.

PLAN DESIGNER:	EMH&T, Inc. Engineers, Surveyors, Planners, Scientists 5500 New Albany Road Columbus, Ohio 43054 PH: 614-775-4500 FAX: 614-775-4800
PROJECT OWNER:	City of Dublin General phone: (614) 410-4600 fax: (614) 410-4699 www.dublin.oh.us
PROJECT DESCRIPTION:	This improvement consists of installing approximately 1,735 feet of ductile iron water main and appurtenances on Glenfinnan Ct., St. Fillans Ct. W., Moray Ct., Glenmalmond Ct., Torwoodlee Ct. and Glenberrie Ct..
EXISTING SITE CONDITIONS:	The sites are existing suburban residential streets.
RECEIVING STREAM:	Existing storm sewer system.
ADJACENT AREAS:	The sites are bounded by residences and a golf course.
CRITICAL AREAS:	None
EROSION AND SEDIMENT MEASURES:	Erosion and sediment will be controlled by the use of inlet protection and sediment fence.
PERMANENT STABILIZATION:	All disturbed areas shall be seeded and mulched or paved to restore them to existing conditions.
MAINTENANCE:	All erosion control devices are required to be inspected with a minimum frequency of every seven days or within 24 hours of a 1/2 inch rain event (as stated in the Specifications). Any damaged facilities are to be replaced/repared immediately as may be necessary. The Contractor shall be required to perform street sweeping operations on the roadway pavement at the conclusion of every work day or as requested by the City of Dublin.
CONSTRUCTION SEQUENCE:	1. The Contractor shall place the required sediment fence and inlet protection on existing structures as well as all other erosion control measures noted hereon prior to any construction activity in accordance with the plan details. 2. The Contractor shall perform the installation of the water mains as delineated within the plans. Provisions for inlet protection shall be established as referenced by the details shown on this sheet. 3. The Contractor shall place seeding and mulching as necessary to reestablish all denuded areas. Limits of seeding shall be as defined on the plan. 4. The Contractor shall properly maintain all erosion and sediment control at all times during the construction operations. 5. The Contractor shall remove and dispose of the erosion control devices only after all areas have been paved and/or seeded and mulched or at the City's direction. After removal of the erosion control devices, the Contractor shall clean all inlets and storm sewer pipes of all sediment & debris incurred during construction.
SCHEDULE:	The Contractor shall provide a schedule of operations to the City of Dublin. Sedimentation and erosion control features shall be placed and maintained in accordance with this schedule.
SITE CONTACT:	City of Dublin Todd Garwick, P.E. Civil Engineer II General phone: (614) 410-4600 or Direct Phone: (614) 410-4665 fax: (614) 718-4346 www.dublin.oh.us Email: tgarwick@dublin.oh.us
	City of Dublin Dean Sanders Engineering Project Coordinator General Ph: (614) 410-4600 Direct Ph: (614) 410-4623 Fax: (614) 718-4346 www.dublin.oh.us Email: dsanders@dublin.oh.us

MARK	DATE	DESCRIPTION

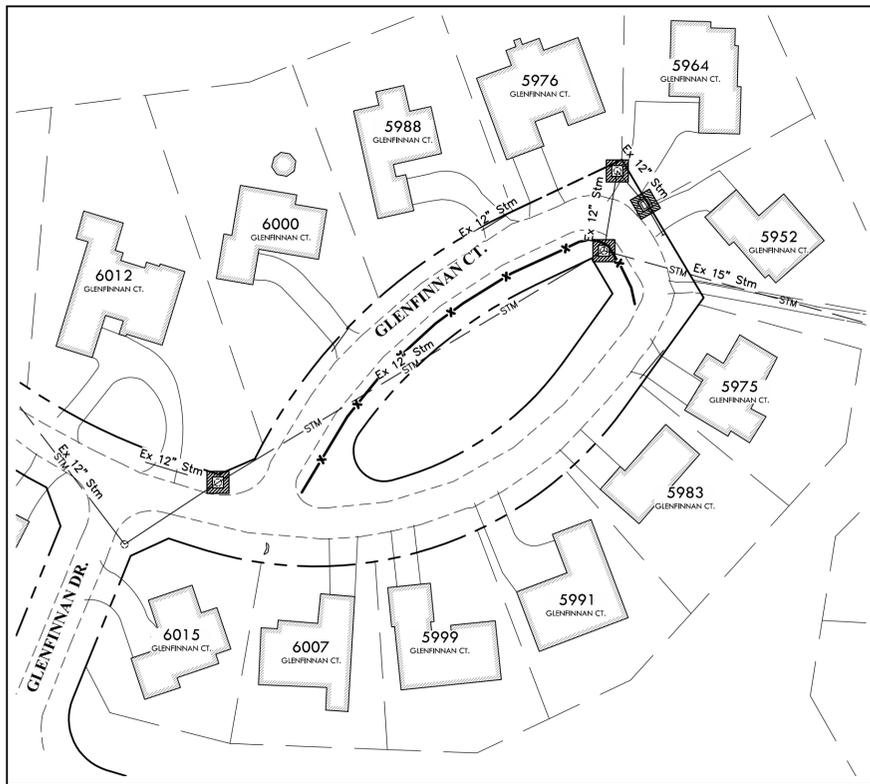


**MUIRFIELD VILLAGE WATERLINE REPLACEMENT IMPROVEMENTS - PHASE 2 - 14-012-CIP**  
EROSION CONTROL NOTES & DETAILS

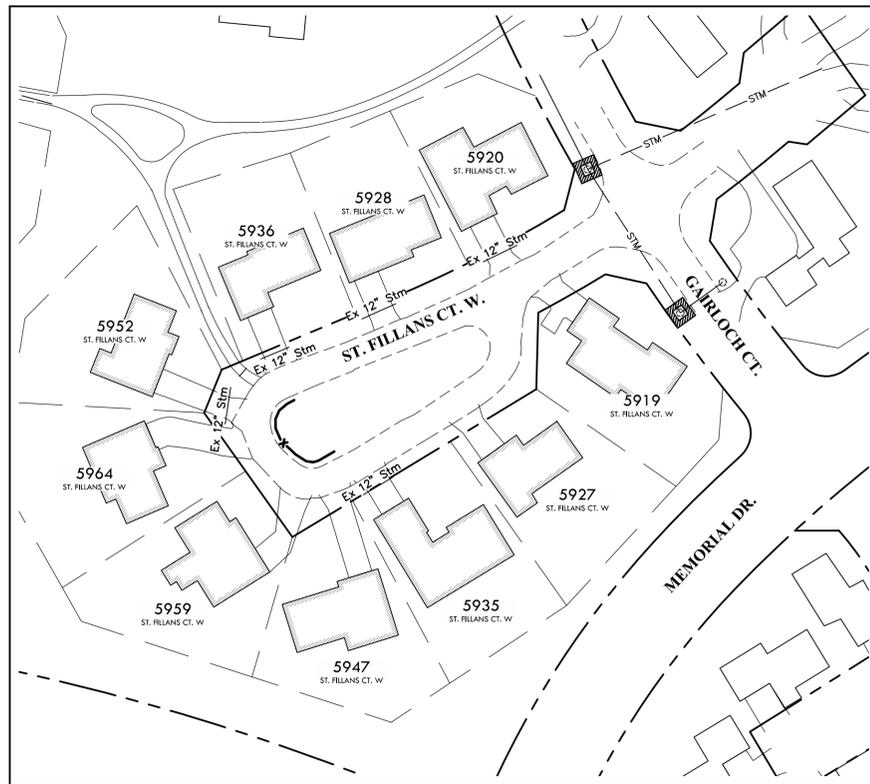


DATE	May, 2014
SCALE	None
JOB NO.	2014-0167

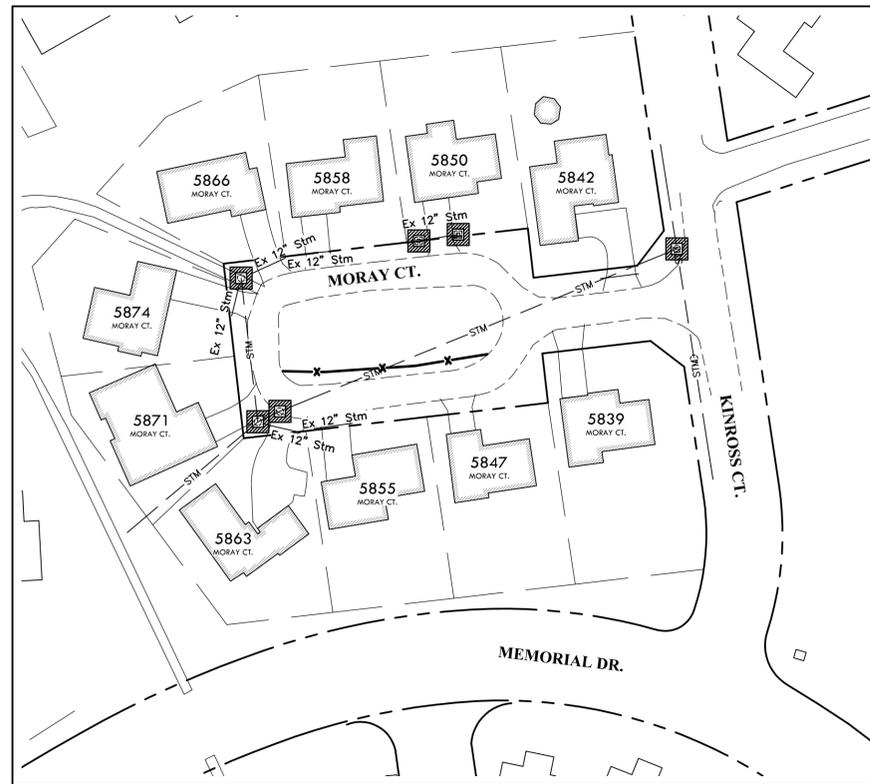
**BID SET**  
NOT TO BE USED FOR CONSTRUCTION  
PLAN SET DATE  
May, 2014



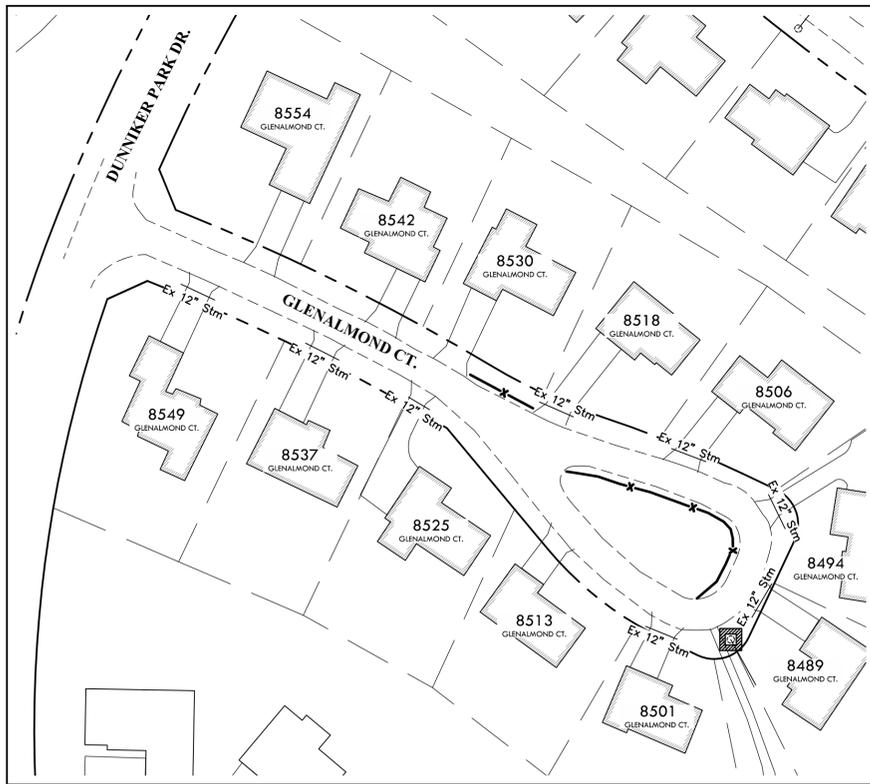
**GLENFINNAN COURT EROSION CONTROL SCHEMATIC**  
Scale: 1" = 60'



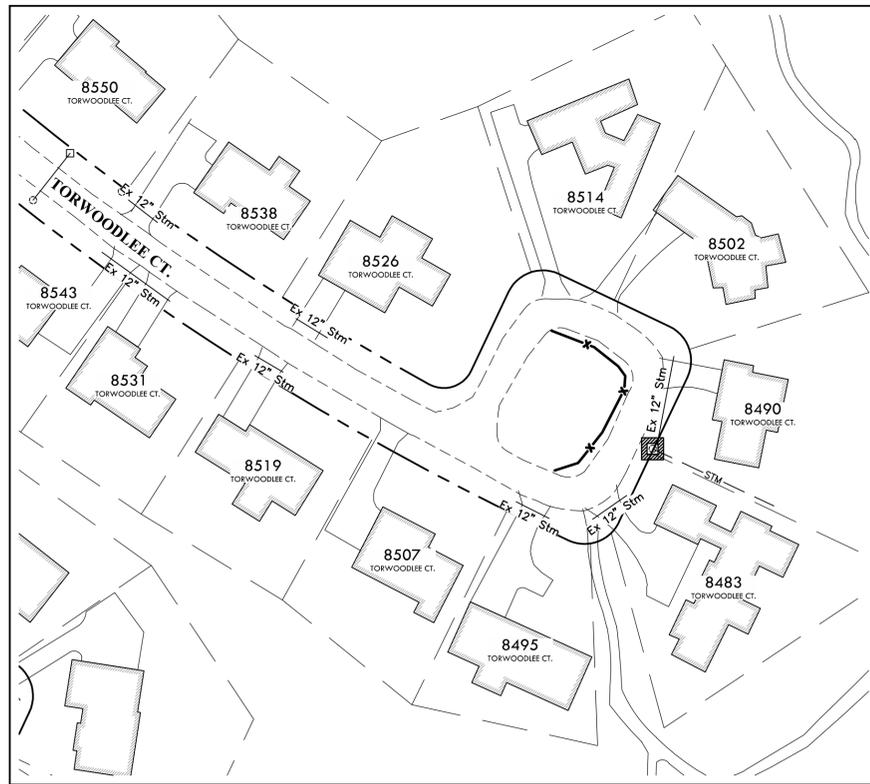
**ST. FILLANS COURT WEST EROSION CONTROL SCHEMATIC**  
Scale: 1" = 60'



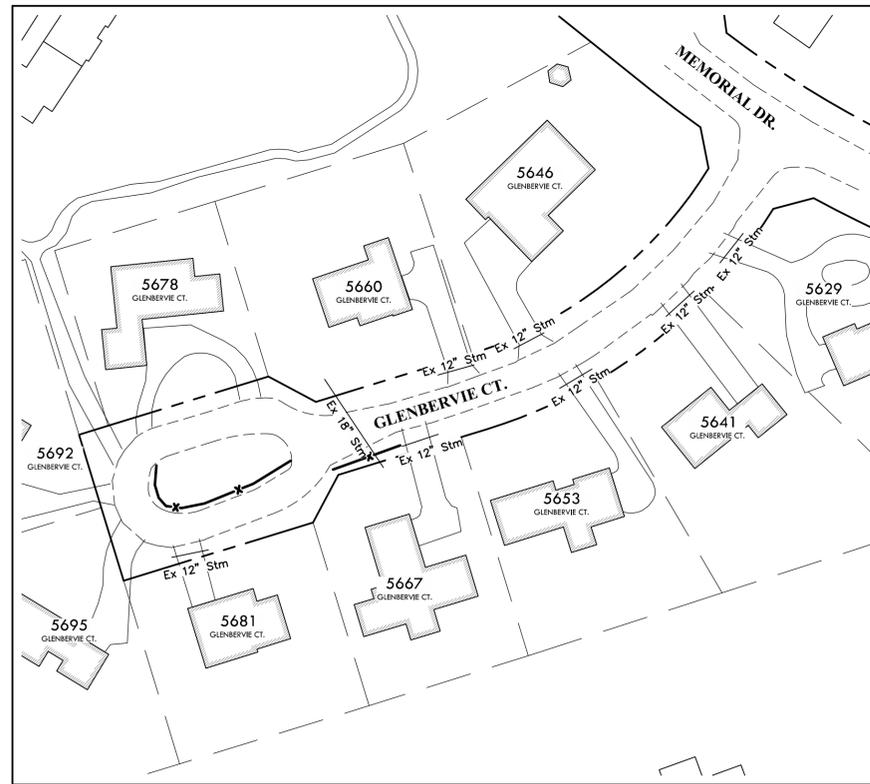
**MORAY COURT EROSION CONTROL SCHEMATIC**  
Scale: 1" = 60'



**GLENALMOND COURT EROSION CONTROL SCHEMATIC**  
Scale: 1" = 60'



**TORWOODLEE COURT EROSION CONTROL SCHEMATIC**  
Scale: 1" = 60'



**GLENBERRIE COURT EROSION CONTROL SCHEMATIC**  
Scale: 1" = 60'

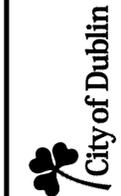
**LEGEND:**

- Sediment Fence
- Inlet Protection

**BID SET**  
.....  
**NOT TO BE USED FOR CONSTRUCTION**

**PLAN SET DATE**  
May, 2014

MARK	DATE	DESCRIPTION



CITY OF DUBLIN, OHIO  
WATERLINE REPLACEMENT  
**MUIRFIELD VILLAGE WATERLINE IMPROVEMENTS - PHASE 2 - 14-012-CIP**  
EROSION CONTROL PLAN



DATE

May, 2014

SCALE

As Noted

JOB NO.

2014-0167

SHEET

13/13

I:\2014\0167\_Dwn\04\Sheets\13\_Erosion\_Control\_Plan.dwg, Last Saved: 5/20/2014 7:43 AM, Last Printed: 5/20/2014 11:02 AM, (No Xrefs)