

File: W10-02

March 12, 2010

Laurie McRae, P.Eng.  
Dillion Consulting  
5335 Canotek Road, Suite 200  
Ottawa, ON K1J 9L4

Dear Ms. McRae:

**Re: Terry Fox Drive Extension culvert installations.**

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Mississippi Valley Conservation (MVC) has reviewed the proposal of placing temporary and permanent culverts at stations 12+600, 13+340, 13+360, 13+400, 14+000, (all in direct fish habitat) and 15+340 (direct fish habitat) as shown in the engineers drawings Preloading and Floodplain Compensation February 2010, and the CEAA part B Final Report March 2010. A formal permit under Ontario Regulation 153/06, the Development, Interference with Wetlands and Alteration to Shorelines and Watercourses Regulation, is not required from MVC to proceed with these culverts.

As detailed in our Level II agreement with the Department of Fisheries and Oceans (DFO), MVC is responsible for the evaluation of the impact of proposed works on fish habitat within our watershed.

The harmful alteration, disruption or destruction of fish habitat is prohibited unless authorized by DFO pursuant to Section 35(2) of the *Fisheries Act*. In keeping with DFO's "Policy for the Management of Fish Habitat", no such authorizations are issued unless acceptable measures for habitat loss are developed and implemented by the proponent.

Often physical impacts on fish habitat can, for the most part, be mitigated by specific modifications or actions incorporated into the project design and construction procedures. In addition to the measures and construction methods set out in the project proposal, the following mitigative measures, if incorporated into the project, are intended to alleviate any potential harmful impacts to fish and fish habitat:

- No in-water work should occur from March 15 to June 30 to protect local fish populations during their spawning and nursery periods.
- All materials and equipment used for the purposes of site preparation and project completion should be operated and stored in a manner that prevents any deleterious substances (e.g. petroleum products, silt, debris, etc.) from entering the water.

No machinery should enter the water except the clean arm and bucket of the machinery.

Any part of machinery that enters or comes in contact with the water should be clean of all grease, oil, dirt or debris.

Member of



Conservation  
**ONTARIO**  
Natural Champions

- The culvert at station 15+340 should be designed to accommodate fish passage. The culvert should be embedded at least 10% of the culvert diameter below the upstream and downstream channel invert. Where appropriate, culverts should be backfilled with imported substrate material matching the existing upstream and downstream bottom type and gradient.
- Natural structures such as logjams and in-stream woody cover should not be removed unless they represent a barrier to flows or fish movement.
- All in stream work should be completed *in the dry* by de-watering the work area and diverting and/or pumping flows around cofferdams placed at the limits of the work area.
- Existing stream flows should be maintained downstream of the de-watered work area without interruption, during all stages of the work. There should be no increase in water levels upstream of the de-watered work area.
- Fish should be removed from the work area prior to de-watering and released alive immediately downstream.
- Flow dissipaters and/or filter bags, or equivalent, should be placed at water discharge points to prevent erosion and sediment release.
- Sediment and erosion control measures should be implemented prior to work, and maintained during the work phase, to prevent entry of sediment into the water or the movement of re-suspended sediment.
- Sediment and erosion control measures should be left in place until all disturbed areas have been stabilized.
- Silt or debris that has accumulated around the temporary cofferdams should be removed prior to their withdrawal.
- All disturbed areas should be stabilized and re-vegetated as required upon completion of work and restored to a pre-disturbed state or better.

If the work is carried out as per the above mitigative measures as well as our understanding of the project, it will not be considered as contravening Section 35(1) of the *Fisheries Act* which reads:

“No person shall carry on any work or undertaking that results in the harmful alteration, disruption or destruction of fish habitat.”

**If the proposed construction method is modified MVC should be contacted before the start of work to obtain any further/additional advice regarding the potential impact and mitigative measures with respect to fish habitat.**

Please note that this letter of advice does not release the proponent of the responsibility of obtaining any other permits that may be required under federal, provincial or municipal legislation.

If you have any other questions please contact the undersigned.

Yours truly,



Kelly Wilson  
Aquatic Biologist



**MISSISSIPPI VALLEY CONSERVATION AUTHORITY**  
4175 Hwy 511, R.R. #2 Lanark, Ontario. K0G 1K0 Tel (613) 259-2421, Fax (613) 259-3468

**PERMIT**  
**DEVELOPMENT, INTERFERENCE WITH WETLANDS AND ALTERATIONS TO**  
**SHORELINES AND WATERCOURSES**  
**ONTARIO REGULATION 153/06**

File: W10-02

Steven Stoddard, P.Eng.  
City of Ottawa  
100 Constellation Crescent, 6<sup>th</sup> Floor  
Ottawa, ON  
K2G 6J8

Dear Mr. Stoddard,

**RE: Application Made Under Ontario Regulation 153/06 to Construct the Terry Fox Extension from Station 12+090 to 13+600, Lots 5, 6, 7, Concession I, Geographic Township of March, City of Ottawa.**

The Mississippi Valley Conservation Authority hereby grants you permission to undertake the proposal outlined in application W10-02, as shown on Schedule "A" (2 pages, 12 sheets) attached. Work according to this permit may commence immediately, to be completed by March 12, 2012, subject to the following conditions:

1. The permit holder shall maintain a copy of this permit on site and shall ensure that all individuals involved in carrying out the work are aware of the permit and its conditions.
2. All construction shall conform to Schedule "A".
3. No in-water work shall occur between March 15 and June 30, inclusive, of any given year.
4. Fill placement within the Carp River floodplain shall not begin until an equal volume has been excavated at the same elevation and section of the river.
5. Prior to commencing work within the flood plain of the Carp River, the contractor shall provide a construction schedule, sediment and erosion control plan, and staging plan to MVC for review and approval.
6. Prior to commencing work within the flood plain of the Carp River, the owner(s) or their agents shall provide a set of 'For Construction' drawings to MVC for review and comment.
7. By September 1, 2011, the owner shall provide a set of 'As-built' drawings to MVC for review.

**PERMIT**  
**DEVELOPMENT, INTERFERENCE WITH WETLANDS AND ALTERATIONS TO**  
**SHORELINES AND WATERCOURSES**  
**ONTARIO REGULATION 153/06**


8. Existing shoreline vegetation shall remain undisturbed.
9. All disturbed soils below 93.5m elevation shall be stabilized with a suitable ground cover by October 1, 2010 to protect against sediment transport during high water in the winter of 2010 and spring 2011.
10. It will be the proponent's responsibility to ensure that the sedimentation control measures are inspected daily and that any maintenance, including the removal of accumulated sediment, is carried out as required.
11. All work shall be carried out in such a manner that will prevent the release of construction and excavation wastes, overburden soil and any other substances deleterious to aquatic life into the Carp River.

Any deviation from the approved criteria without prior written approval from the Mississippi Valley Conservation Authority will constitute a violation of the approved permit. This could result in the permit being revoked in accordance with Section 8 of Ontario Regulation 153/06, which states:

8 (1) The Authority may cancel a permission if it is of the opinion that the conditions of the permission have not been met.

**Please be reminded that this permission does not relieve you of your obligation to secure any other necessary approval.**

The Mississippi Valley Conservation Authority assumes no responsibility or liability for any flood, erosion or slope failure damage which may occur either to this property or the structures on it or if any activity undertaken by you adversely affects the property interests of adjacent landowners. This permit is not transferable to subsequent property owners.

  
Paul Lehman, P.Eng.  
General Manager

Dated at Lanark, Ontario, this 12<sup>th</sup> day of March, 2010.



**Mississippi Valley Conservation**

1510-02

MVC Use Only

**File No.:**

A permit must be obtained prior to construction, placement, excavation or fill, or alterations to wetlands, shorelines and watercourses in any area covered by this Regulation with Wetlands and Shorelines and Watercourses in Shorelines and Watercourses. (Pursuant to Ontario Regulation 153/06)

PLEASE PRINT CLEARLY

**Landowner and/or Agent Details**  
**Owner's Name (Last, First):** City of Ottawa, Construction Services Dir. **Phone # (Home):** \_\_\_\_\_

**Mailing Address:** 100 Constellation Cres., 6th Floor, Ottawa **Phone # (Work):** 613-580-2424 x 27880

**Attn:** Steven Stoddard, P.Eng. **Postal Code:** K2G 6J8 **Fax #:** 613-560-6064

If using an agent to complete work:

**Agent's Name (Last, First):** Dillon Consulting Limited **Phone #:** \_\_\_\_\_

**Mailing Address:** 5335 Canotek Rd., Suite 200, Gloucester, ON **Phone # (Work):** 613-745-2213

**Attn:** Michael Flainek, P.Eng. **Postal Code:** K1J 9L4 **Fax #:** 613-745-3491

**Terry Fox Drive Extension:** Richard Side Road to March Road, Kanata

Infrastructure Stimulus  
Fund Project 2655

**Lot:** \_\_\_\_\_ **Concession:** \_\_\_\_\_ **Registered Property Details** **Registered Plan No.:** \_\_\_\_\_

**Municipality:** City of Ottawa **Former Ward:** \_\_\_\_\_ **Civic/Street Address/PIN:** 045230023

**Roll No. (refer to Property Tax or Assessment Notice):** See attached property plan.

**Existing Land Use (Vacant, Residential, etc.):** Agricultural, Natural Environment

Yes	No	Additional Information	Status
<input type="checkbox"/>		Previous MVC applications for this property (if known)?	Kanata Road Inc. PIN 045100078 Richardson Ridge Inc
	<input type="checkbox"/>	Planning approval required from Municipality? (e.g. Site Plan Approval or Re-zoning)	Uniform Real Estate Holding Corporation
<input type="checkbox"/>		Applications made to other agencies? (e.g. MNR, MOE, DFO)	MNR-Endangered Species Act - MOE-Cert. of Approval



## Mississippi Valley Conservation

### Description of Type of Development / Work(s) Proposed

(attach a separate sheet if more space is required)

- Place or Remove Fill     
  Alter Existing Watercourse (e.g. install culvert)     
  Construct Retaining Wall, Erosion Control  
 Construct New Building     
  Add to, Alter or Renovate Building     
  Construct, Alter or Repair Dock or Boat Ramp  
 Construct Pond, Reservoir     
  Install Sewage Disposal System     
 X Other: Construct Roadway

**Description of Proposal:** Fill in Carp River Floodplain, new culverts, stormwater catchment, realign Shirley's Brook watercourse, remove Prov. Sign. wetlands, clear and grab forests, install wildlife culverts and guide wall - construct Terry Fox Drive roadway.

Proposed Start Date: 02 / 01 / 10  
M D Y

Proposed Finish Date: 03 / 31 / 2011  
M D Y

### Checklist of Application Requirements

Please provide 4 copies of documents that exceed 11" x 14" in size  
 Before submitting, ensure the following is included:

	Requirement
<input checked="" type="checkbox"/>	Pre-consultation with Mississippi Valley Conservation -Meeting with John Prire-Feb 26 & Oct 16, 09
<input checked="" type="checkbox"/>	Completed Permit Application Form (pages 2 & 3) -See also Stormwater Management Report.
<input checked="" type="checkbox"/>	Directions to work site/location map-Aerial Plan with legal 1-March 2009. pdf.
<input checked="" type="checkbox"/>	Site plan (refer to checklist included in this document for additional details)
<input checked="" type="checkbox"/>	Cross-section referencing a benchmark (refer to checklist included in this document for additional details)
<input checked="" type="checkbox"/>	Professional drawings (e.g. grading plan, survey plan) of proposed works as required (refer below for details)
<input type="checkbox"/>	Signature or written authorization from Landowner
<input type="checkbox"/>	Application processing fee (see included fee structure for appropriate fee) -Category V:\$2,000
<input checked="" type="checkbox"/>	Photos of the work site as available - see CEAA Report Chapters 6, 7 & 8

Detailed **professional drawings** such as grading and survey plans from, for example, a Contractor or Engineer is required for the following works:

- ✓ new dwellings and/or structures in the floodplain
- ✓ additions greater than or equal to 50% of the existing dwelling and/or structure in the floodplain
- ✓ retaining walls greater than 1 metre high
- ✓ fill depths greater than 1.5 metres (may be required for fill depths less than 1.5 metres)
- ✓ finished crawl spaces

**NOTE: Insufficient information may delay the processing of this application. A written response will be provided within 30 days of receipt of all necessary information. This application does not relieve the applicant of the obligation to secure any other necessary approval.**

I, Steven Stoddard P Eng declare that I am the landowner/agent and that the above information is correct to the best of my knowledge. I also permit MVC staff to undertake periodic inspections of the work site.

Signature:  Date: 12, 18, 2009  
(Signature or written authorization from the owner is mandatory) M D Y

DRAWING FRAME: 750mm x 534mm City of Ottawa 2008

ISB005-5123-105-rem1

**TERRY FOX DRIVE**  
 RICHARDSON SIDE ROAD TO SECOND LINE ROAD  
 PRELOADING AND FLOODPLAIN COMPENSATION

**Ottawa**

Contract No. ISB05-5068 Dwg. No. 105  
 Sheet 005 of 027

Asset No. \_\_\_\_\_  
 Asset Group \_\_\_\_\_

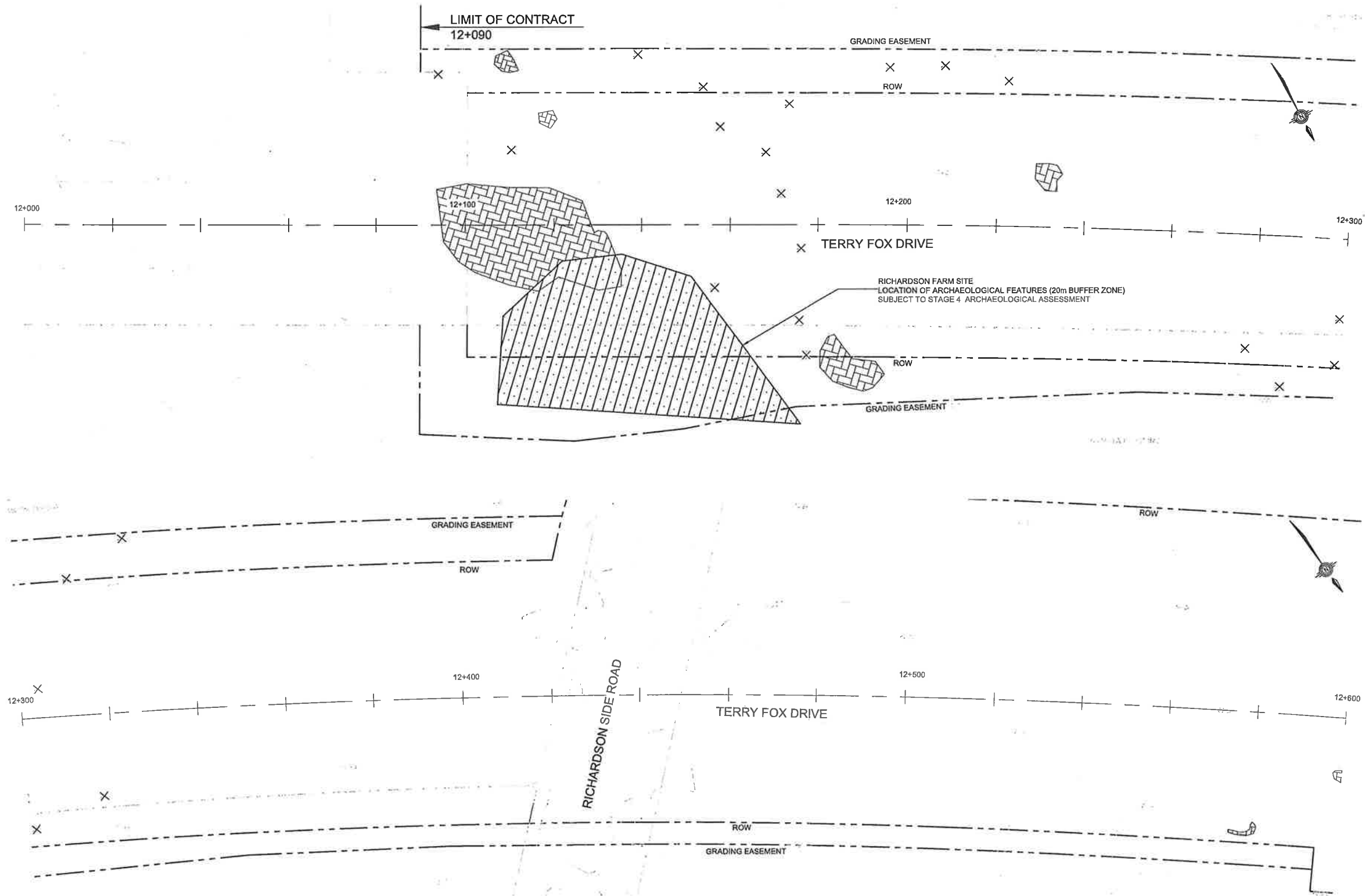
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 Dwn. NTB CK'd BGH  
 Utility Circ. No. \_\_\_\_\_ Index No. \_\_\_\_\_  
 Const. Inspector \_\_\_\_\_

Scale: HORIZONTAL 1:500  
 VERTICAL \_\_\_\_\_

**NOTE:**  
 The location of utilities is approximate only, the exact location should be determined by consulting the municipal authorities and utility companies concerned. The contractor shall prove the location of utilities and shall be responsible for adequate protection from damage.

No.	Description	By	Date (dd/mm/yyyy)
1	70% COMPLETE - ISSUED FOR MVC APPLICATION	BGH	23-12-09
2	70% COMPLETE - ISSUED FOR REVIEW	BGH	08-01-10
3	70% COMPLETE - ISSUED FOR REVIEW	BGH	12-01-10
4	90% COMPLETE - ISSUED FOR UTILITY CIRCULATION	LDM	25-01-10
5	90% COMPLETE - ISSUED FOR TENDER	LDM	10-02-10

**SCHEDULE "A"**



DRAWING FRAME: 792mm x 549mm City of Ottawa 2008

ISB05-5123-106-rem2

**TERRY FOX DRIVE**  
 RICHARDSON SIDE ROAD TO SECOND LINE ROAD  
 PRELOADING AND FLOODPLAIN COMPENSATION

**Ottawa**

Contract No. ISB05-5068 Dwg. No. 106  
 Sheet 006 of 026

REMOVALS  
 STA. 12+600 TO STA. 13+200

Asset No.  
 Asset Group

B. MASON, P. ENG. S. STODDARD, P. ENG.  
 Manager - Construction Services West Senior Project Manager

Des. RG CHKD. LDM  
 Dwn. NTB CHKD. BGH  
 Utility Circ. No. Index No.  
 Const. Inspector

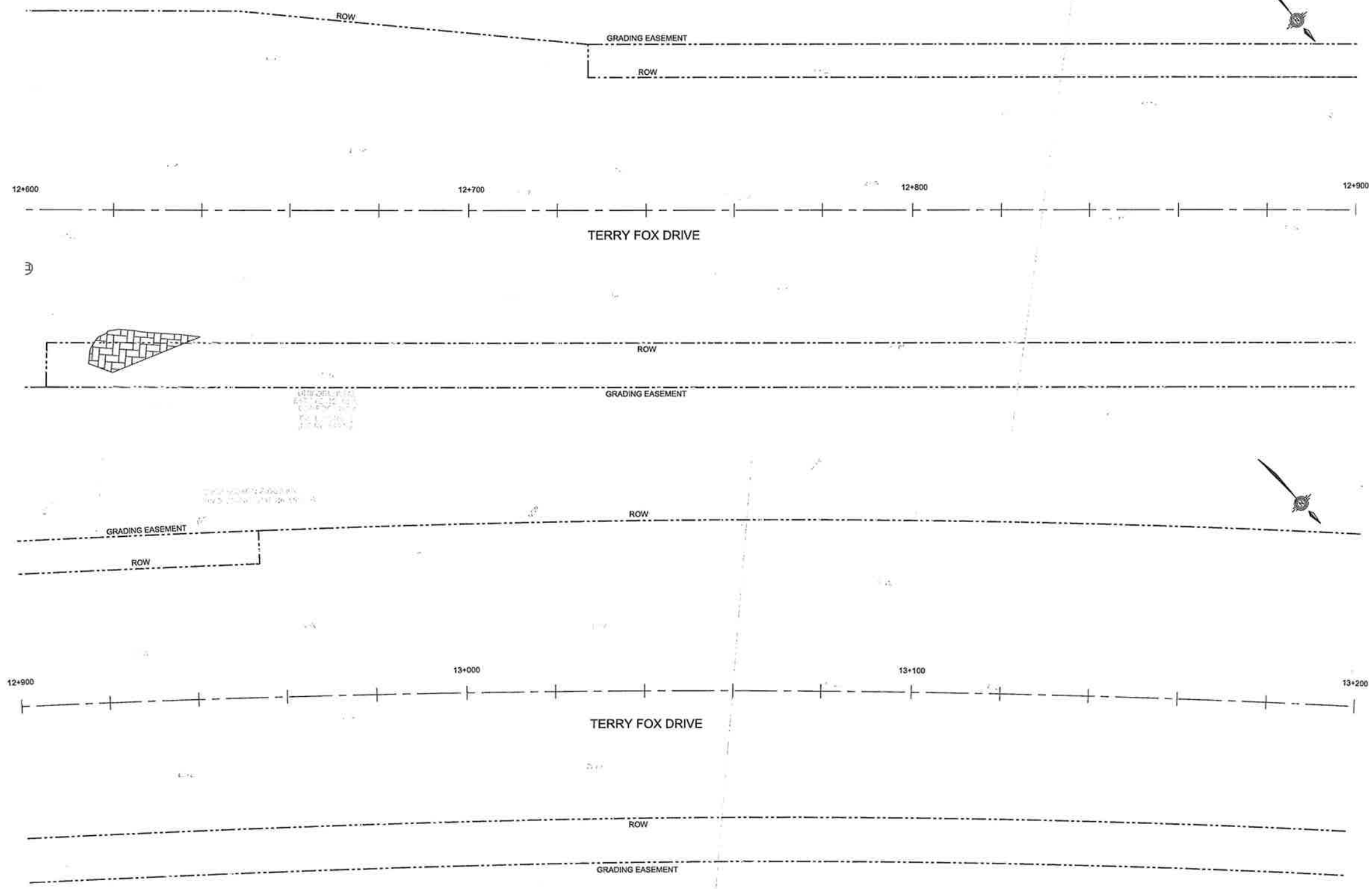
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 VERTICAL

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3	70% COMPLETE - ISSUED FOR REVIEW	BOH	12-01-10
4	90% COMPLETE - ISSUED FOR UTILITY CIRCULATION	LDM	26-01-10
5	90% COMPLETE - ISSUED FOR TENDER	LDM	10-02-10

DILLON CONSULTING

**SCHEDULE "A"**





DRAWING FRAME: 750mm x 530mm City of Ottawa 2008

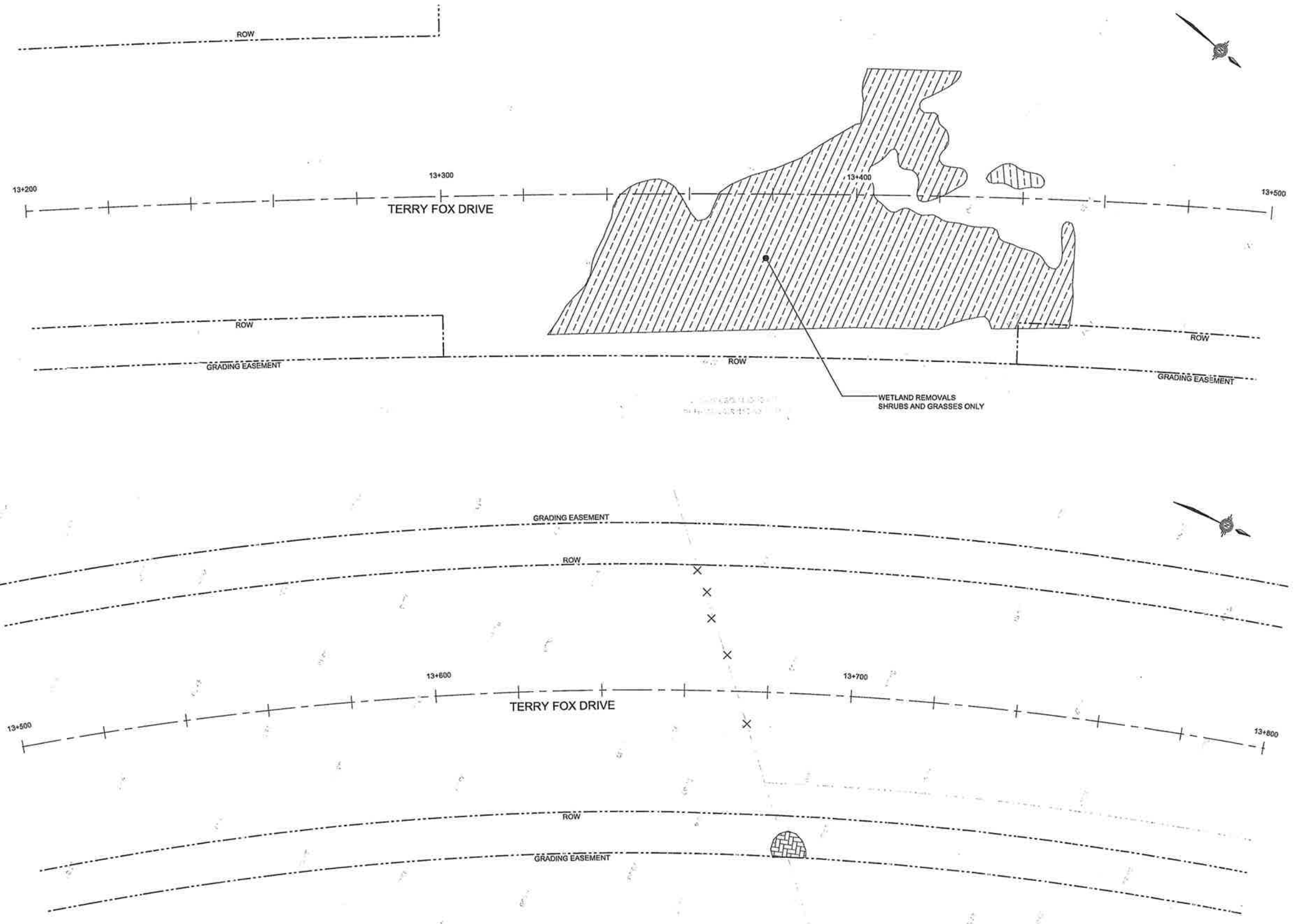
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<b>TERRY FOX DRIVE</b> RICHARDSON SIDE ROAD TO SECOND LINE ROAD PRELOADING AND FLOODPLAIN COMPENSATION			
REMOVALS STA. 13+200 TO STA. 13+800		Contract No. ISB05-5068	Dwg. No. 107
B. MASON, P.ENG Manager - Construction Services West		S. STODDARD, P.ENG Senior Project Manager	
Des. RG		Chkd. LDM	
Dwn. NTB		Chkd. BGH	
Const. Inspector		Scale: HORIZONTAL: 1:500 VERTICAL: 1:500	

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5	90% COMPLETE - ISSUED FOR TENDER	LDM	10-02-10

**SCHEDULE "A"**



DRAWING FRAME: 700mm x 1000mm City of Ottawa 2009

ISSUES-5120-112.rpt

**TERRY FOX DRIVE**  
 RICHARDSON SIDE ROAD TO SECOND LINE ROAD  
 PRELOADING AND FLOODPLAIN COMPENSATION



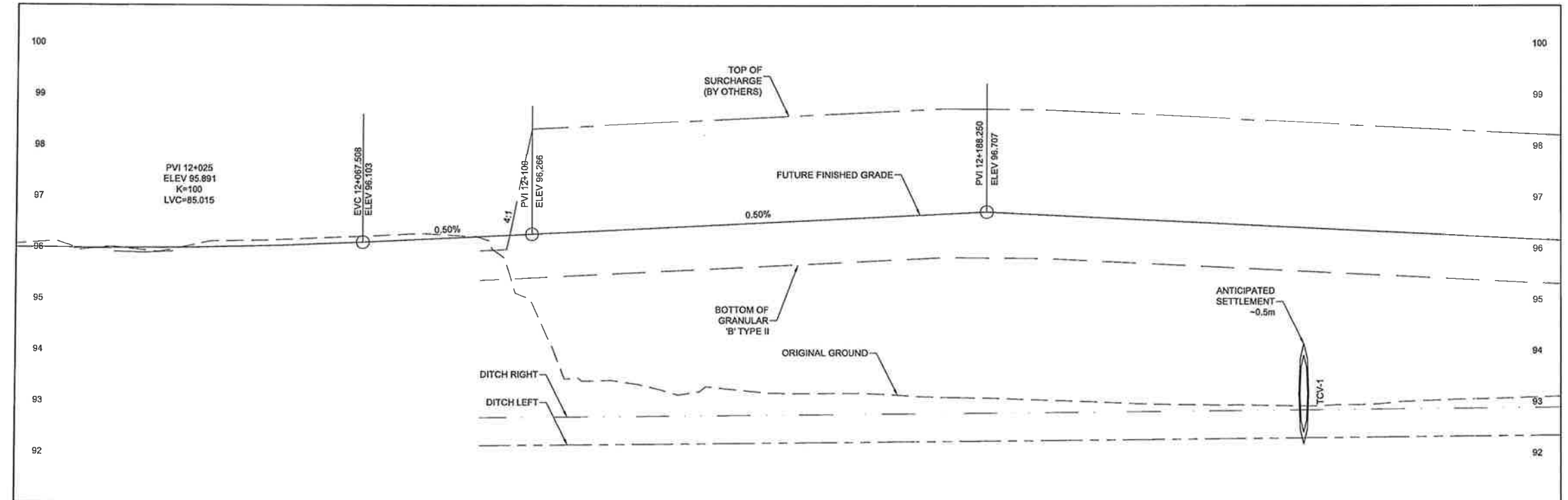
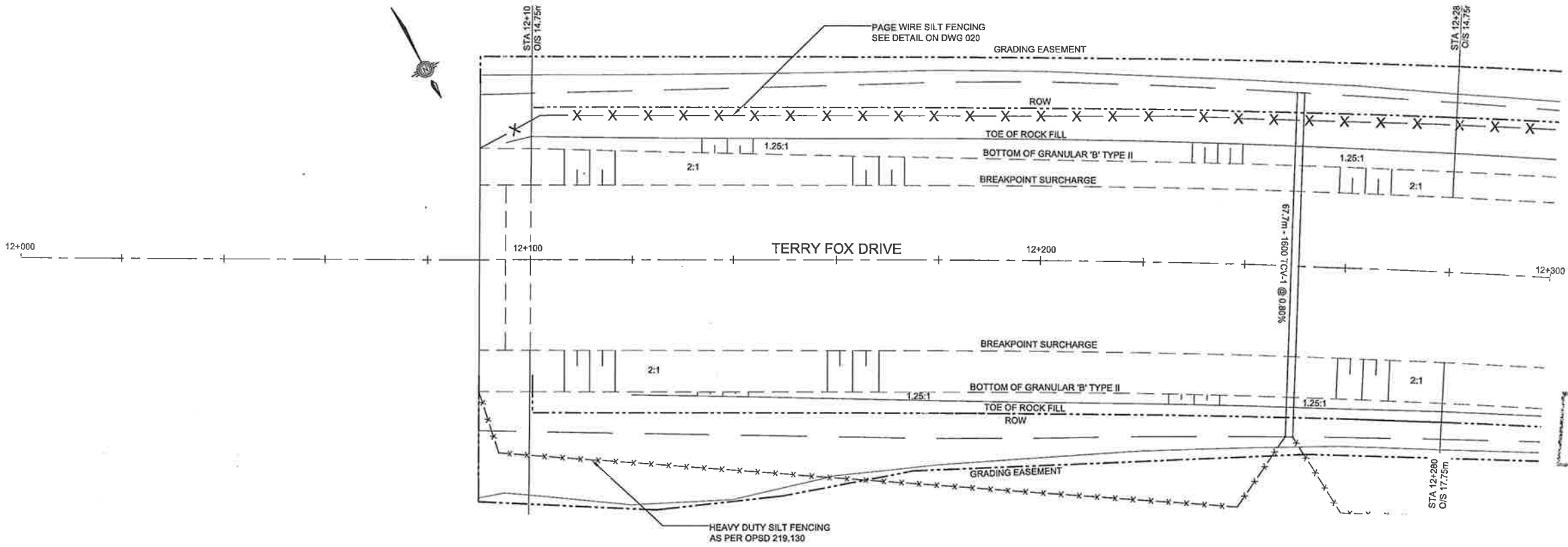
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Sheet 012 of 026	
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Asset Group	
Dir. B. MASON, P.ENG Manager - Construction Services West	Dir. S. STODDARD, P.ENG Senior Project Manager
Dwn. NTB	Chk'd. LDM
Utility Circ. No.	Index No.
Const. Inspector	
Scale: HORIZONTAL 1:500 VERTICAL	

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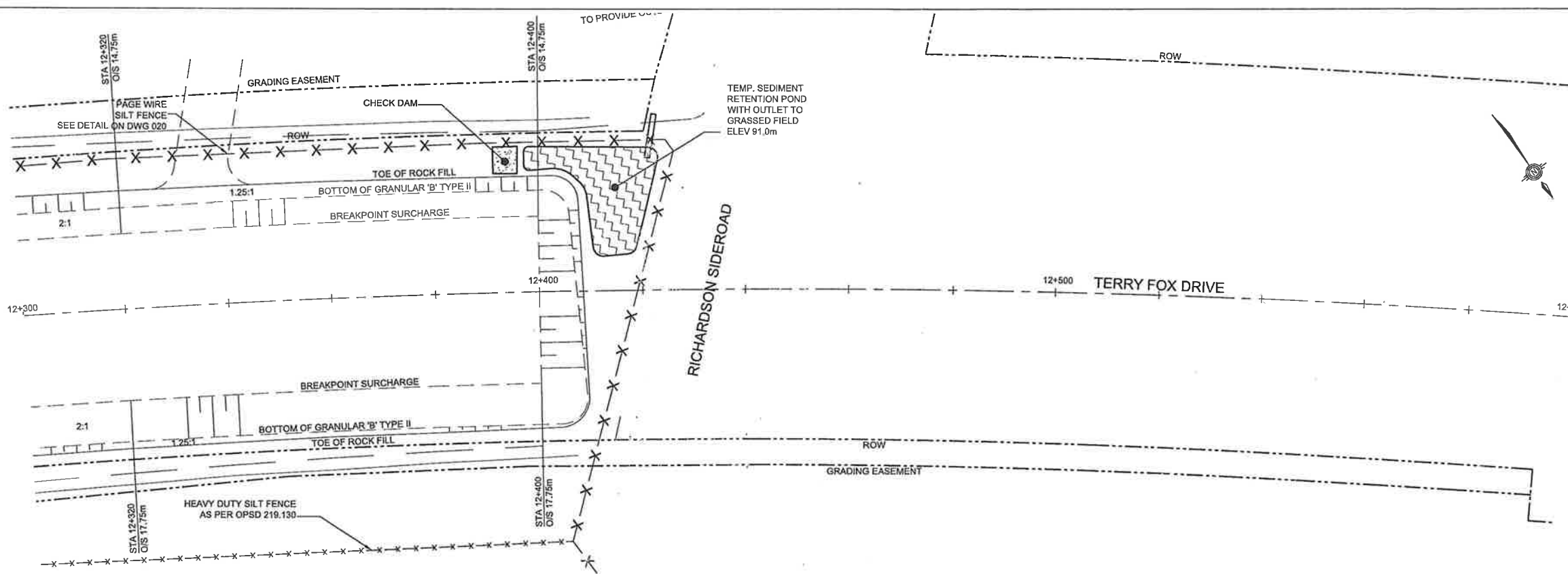
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5	90% COMPLETE - ISSUED FOR TENDER	LDM	10-02-10



**SCHEDULE "A"**



STATION	95.984	95.981	95.979	95.986	96.004	96.031	96.069	96.116	96.166	96.216	96.266	96.316	96.366	96.416	96.466	96.516	96.566	96.616	96.666	96.698	96.648	96.698	96.548	96.498	96.448	96.398	96.348	96.298	96.248	96.198	96.148	PROFILE		
12+000																																TOP OF WATERMAIN		
12+020																																STORM INVERT		
12+040																																SANITARY INVERT		
12+060																																		
12+080																																		
12+100																																		
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12+300																																		



**TERRY FOX DRIVE**  
 RICHARDSON SIDE ROAD TO SECOND LINE ROAD  
 PRELOADING AND FLOODPLAIN COMPENSATION

**PLAN & PROFILE**  
 STA. 12+300 TO STA. 12+600

Contract No. ISB05-5068 Dwg. No. 113  
 Sheet 013 of 026

Asset No. \_\_\_\_\_  
 Asset Group \_\_\_\_\_

B. MASON, P.ENG  
 Manager - Construction Services West

S. STODDARD, P.ENG  
 Senior Project Manager

Des: RG Chkd: LDM  
 Dwn: NTB Chkd: BGH  
 Utility Circ. No. \_\_\_\_\_ Index No. \_\_\_\_\_  
 Const. Inspector \_\_\_\_\_

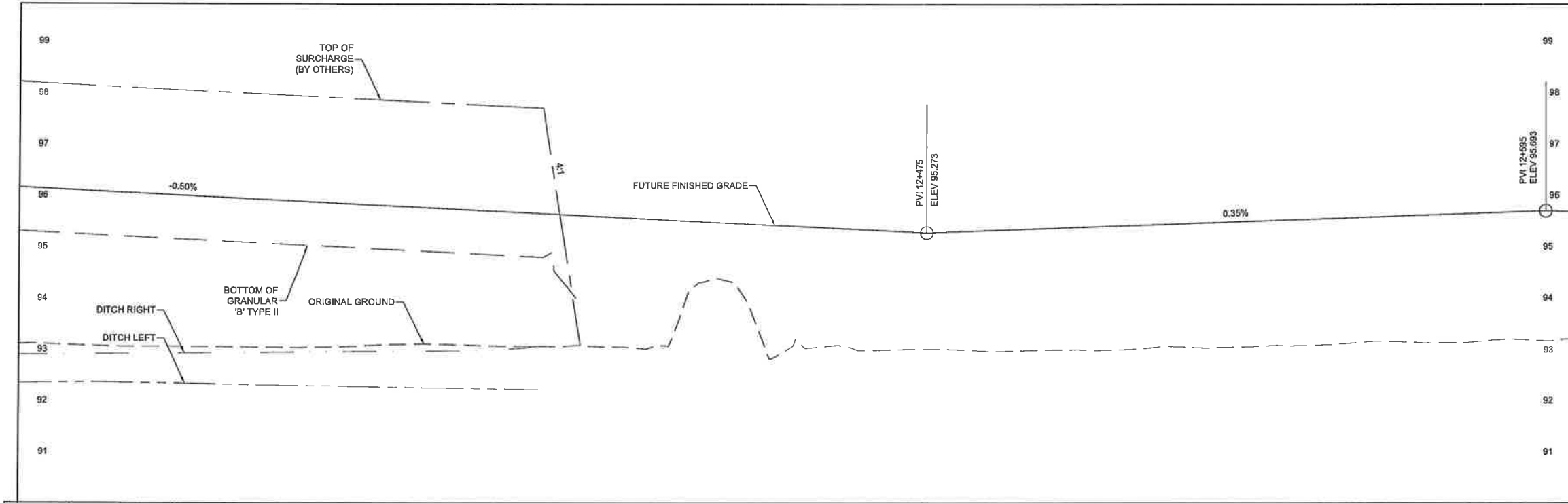
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 VERTICAL \_\_\_\_\_

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**DILLON CONSULTING**

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5	90% COMPLETE - ISSUED FOR TENDER	LDM	10-02-10

**SCHEDULE "A"**



STATION	96.148	96.098	96.048	95.998	95.948	95.898	95.848	95.798	95.748	95.698	95.648	95.598	95.548	95.498	95.448	95.398	95.348	95.298	95.248	95.198	95.148	95.098	95.048	94.998	94.948	94.898	94.848	94.798	94.748	94.698	94.648	94.598	94.548	94.498	94.448	94.398	94.348	94.298	94.248	94.198	94.148	94.098	94.048	93.998	93.948	93.898	93.848	93.798	93.748	93.698	93.648	93.598	93.548	93.498	93.448	93.398	93.348	93.298	93.248	93.198	93.148	93.098	93.048	92.998	92.948	92.898	92.848	92.798	92.748	92.698	92.648	92.598	92.548	92.498	92.448	92.398	92.348	92.298	92.248	92.198	92.148	92.098	92.048	91.998	91.948	91.898	91.848	91.798	91.748	91.698	91.648	91.598	91.548	91.498	91.448	91.398	91.348	91.298	91.248	91.198	91.148	91.098	91.048	90.998	90.948	90.898	90.848	90.798	90.748	90.698	90.648	90.598	90.548	90.498	90.448	90.398	90.348	90.298	90.248	90.198	90.148	90.098	90.048	90.000
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DRAWING FRAME: 700mm x 1000mm City of Ottawa 2004

ISB09-5123-114.dwg

TERRY FOX DRIVE  
 RICHARDSON SIDE ROAD TO SECOND LINE ROAD  
 PRELOADING AND FLOODPLAIN COMPENSATION



Contract No. ISB05-5068 Dwg. No. 114  
 Sheet 014 of 026

PLAN & PROFILE  
 STA. 12+600 TO STA. 12+900

B. MASON, P.ENG S. STODDARD, P.ENG  
 Manager - Construction Services West Senior Project Manager

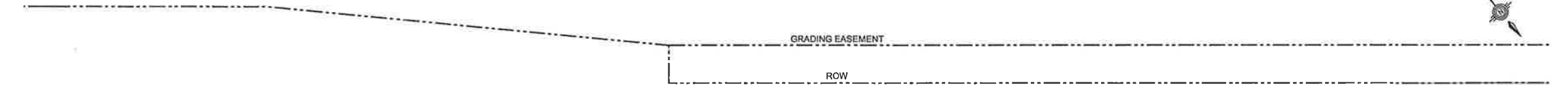
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Own.	NTB	CHK'd	BGH
Utility Circ. No.		Index No.	
Const. Inspector			

Scale: HORIZONTAL 1:500  
 VERTICAL



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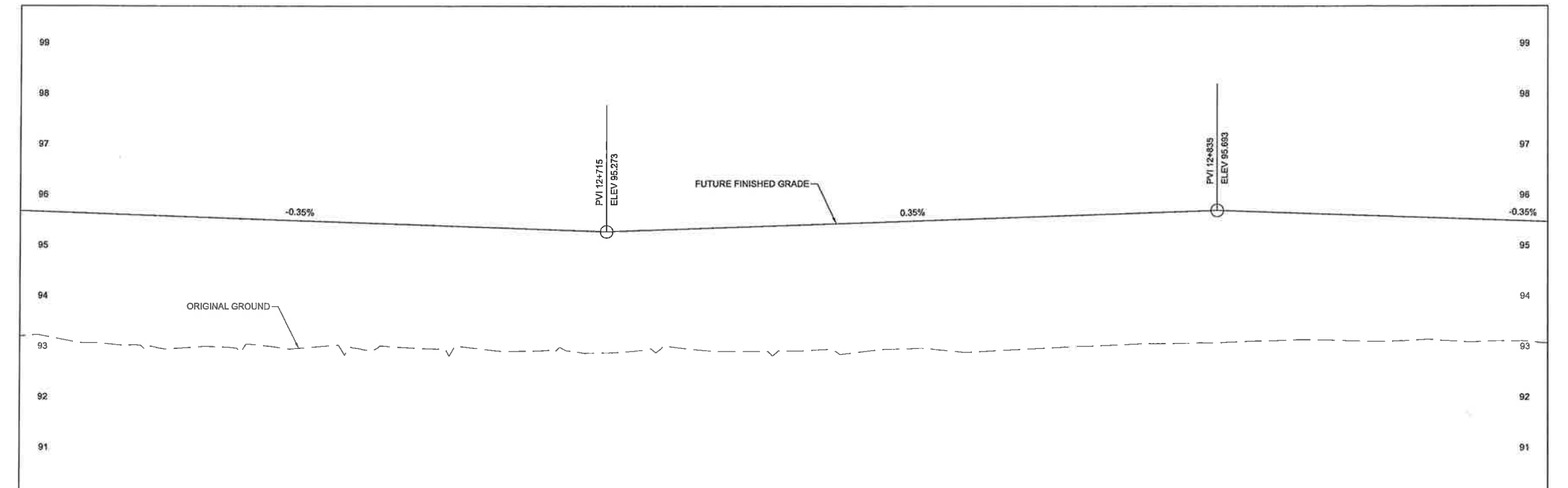
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5	90% COMPLETE - ISSUED FOR TENDER	LDM	10-02-10



12+600 12+700 12+800 12+900  
 TERRY FOX DRIVE



**SCHEDULE "A"**



Station	Elevation (m)	Profile Type
12+600	95.676	PROFILE
	95.641	TOP OF WATERMAIN
	95.606	STORM INVERT
	95.571	SANITARY INVERT
12+620	95.536	
12+640	95.501	
12+660	95.466	
12+680	95.431	
12+700	95.396	
12+720	95.361	
12+740	95.326	
12+760	95.291	
12+780	95.256	
12+800	95.221	
12+820	95.186	
12+840	95.151	
12+860	95.116	
12+880	95.081	
12+900	95.046	

DRAWING FRAME: 790mm x 540mm City of Ottawa 2008

ISB09-5123-115.ppt

**TERRY FOX DRIVE**  
 RICHARDSON SIDE ROAD TO SECOND LINE ROAD  
 PRELOADING AND FLOODPLAIN COMPENSATION



Contract No. ISB05-5068 Dwg. No. 115  
 Sheet 015 of 026

PLAN & PROFILE  
 STA. 12+900 TO STA 13+200

B. MASON, P. ENG  
 Manager - Construction Services West

S. STODDARD, P. ENG  
 Senior Project Manager

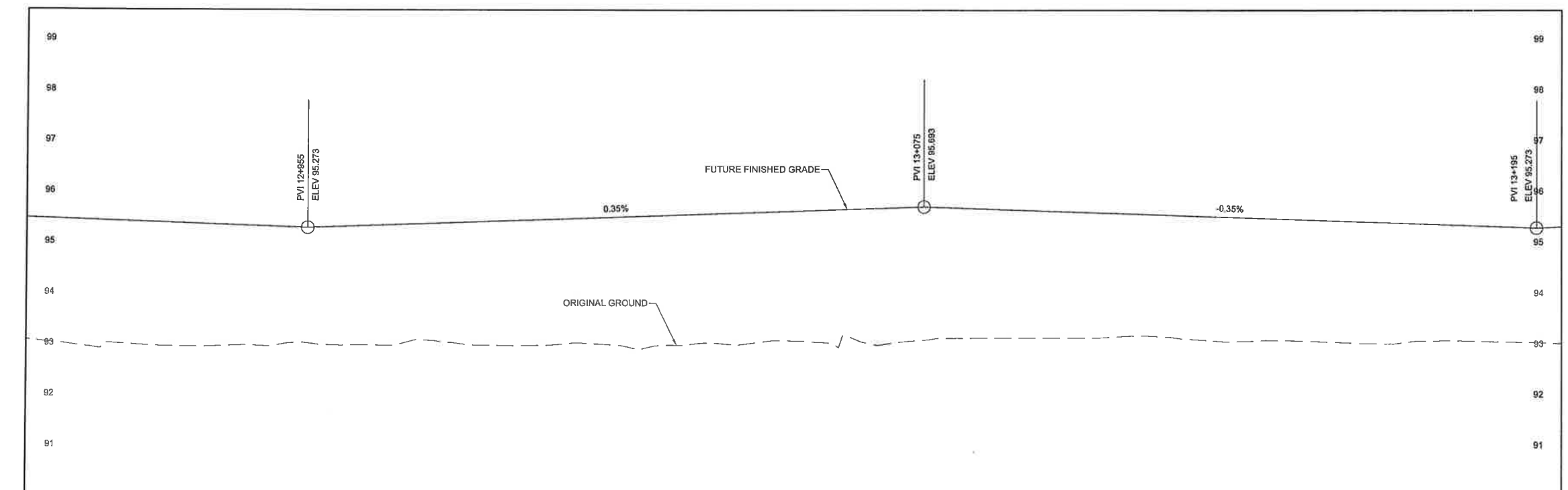
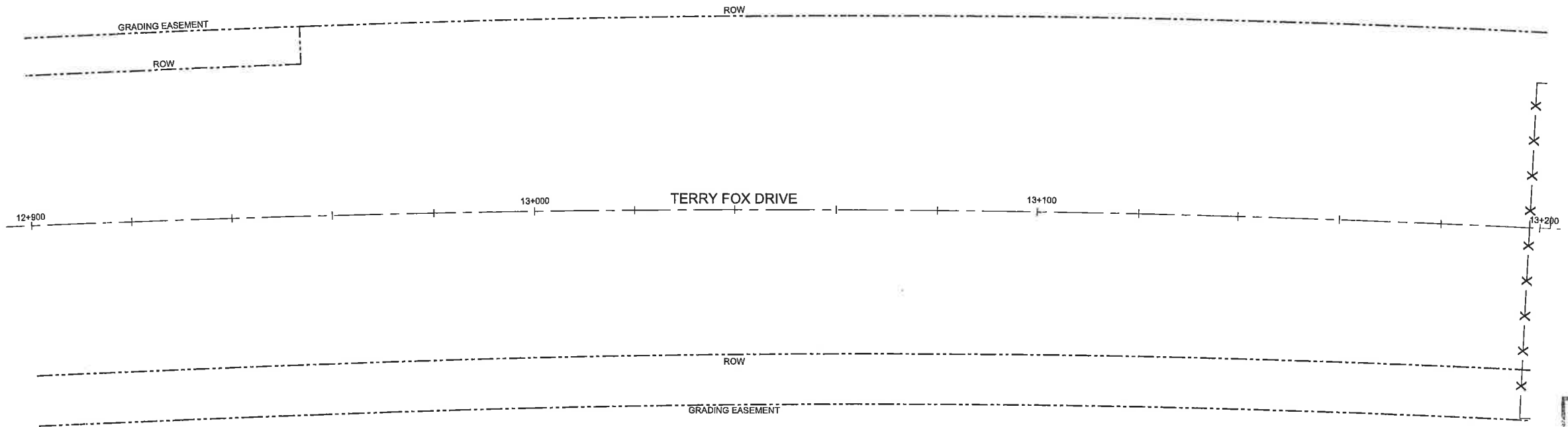
Asset No.	Asset Group
Des. RG	CHK'd. LDM
Dwn. NTB	CHK'd. BGH
Utility Circ. No.	Index No.
Const. Inspector	
Scale:	
HORIZONTAL 1:500	
VERTICAL	

NOTE:  
 The location of utilities is approximate only, the exact location should be determined by consulting the municipal authorities and utility companies concerned. The contractor shall prove the location of utilities and shall be responsible for adequate protection from damage.



REVISIONS	No.	Description	By	Date (dd/mm/yyyy)
	1	70% COMPLETE - ISSUED FOR MVC APPLICATION	BGH	23-12-09
	2	70% COMPLETE - ISSUED FOR REVIEW	BGH	08-01-10
	3	70% COMPLETE - ISSUED FOR REVIEW	BGH	12-01-10
	4	90% COMPLETE - ISSUED FOR UTILITY CIRCULATION	LDM	26-01-10
	5	90% COMPLETE - ISSUED FOR TENDER	LDM	10-02-10

SCHEDULE "A"



STATION	PROFILE	TOP OF WATERMAIN	STORM INVERT	SANITARY INVERT
12+900	95.466			
12+920	95.431			
12+940	95.396			
12+960	95.361			
12+980	95.326			
13+000	95.291			
13+020	95.256			
13+040	95.221			
13+060	95.186			
13+080	95.151			
13+100	95.116			
13+120	95.081			
13+140	95.046			
13+160	95.011			
13+180	94.976			
13+200	94.941			

DRAWING FRAME: 780mm x 534mm City of Ottawa 2008

**TERRY FOX DRIVE**  
 RICHARDSON SIDE ROAD TO SECOND LINE ROAD  
 PRELOADING AND FLOODPLAIN COMPENSATION



**PLAN & PROFILE**  
 STA. 13+200 TO STA. 13+500

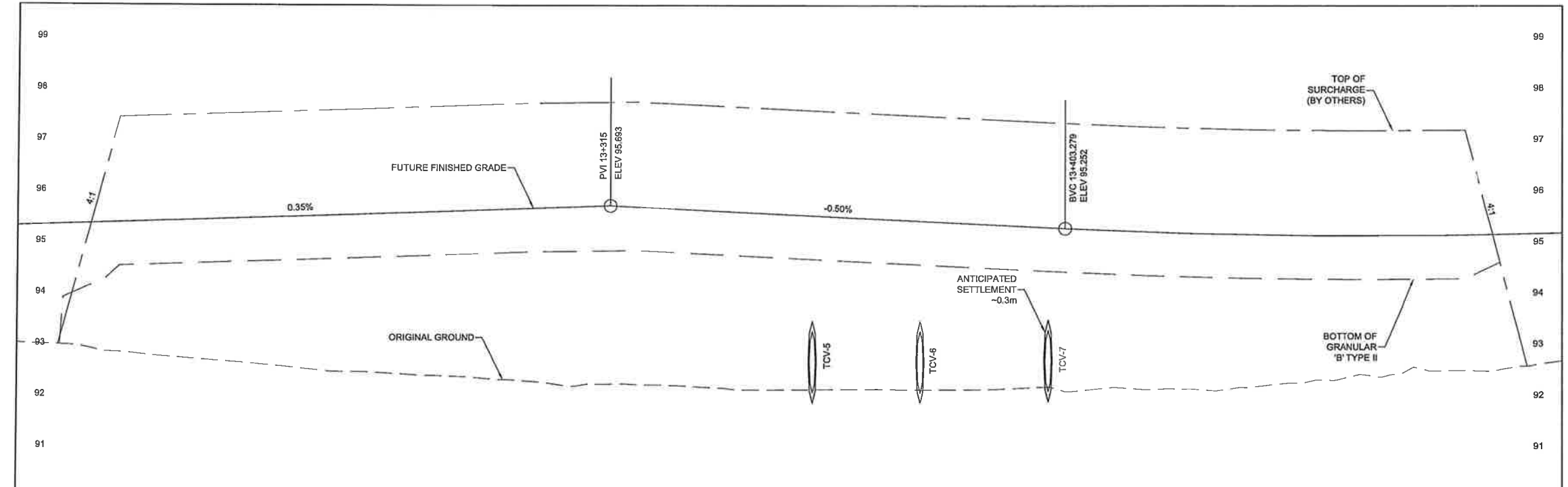
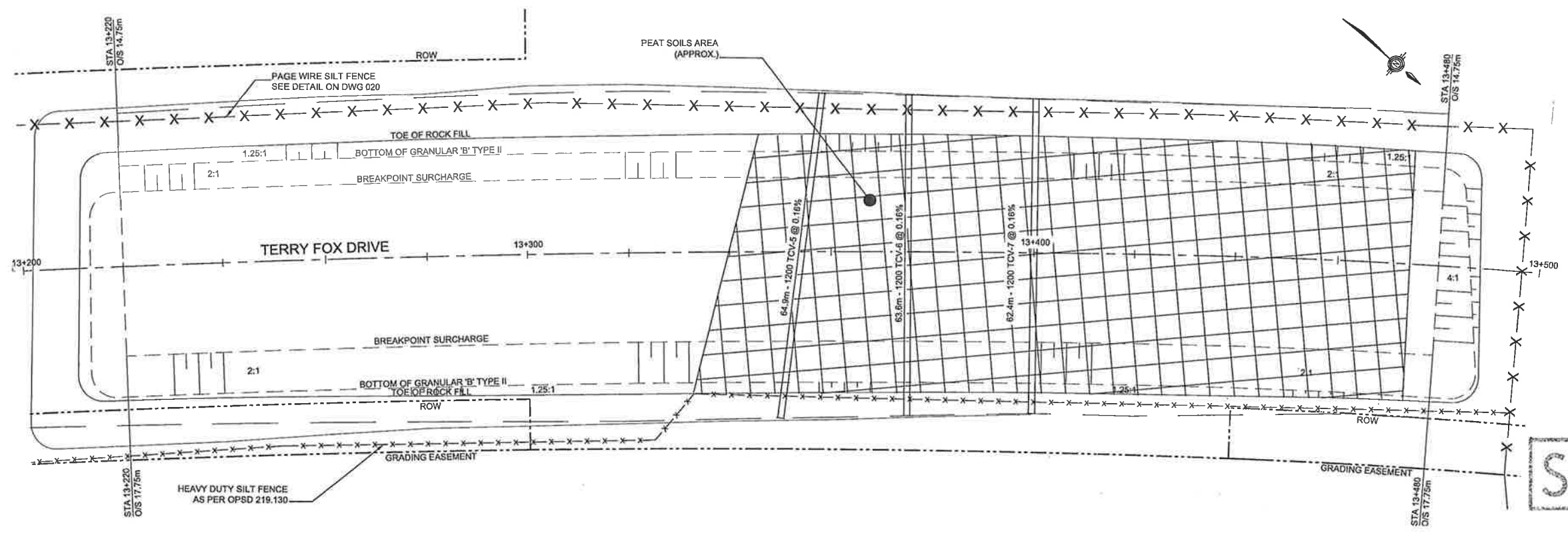
Contract No.	ISB05-5068	Dwg. No.	116
Sheet	016 of 029		
Asset No.			
Asset Group			
Des.	RG	CHK'd.	LDM
Own.	NTB	CHK'd.	BGH
Utility Circ. No.	Index No.		
Const. Inspector			
Scale:	HORIZONTAL 1:500		
	VERTICAL		

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REVISIONS	No.	Description	By	Date (dd/mm/yyyy)
	1	70% COMPLETE - ISSUED FOR MVC APPLICATION	BGH	23-12-09
	2	70% COMPLETE - ISSUED FOR REVIEW	BGH	08-01-10
	3	70% COMPLETE - ISSUED FOR REVIEW	BGH	12-01-10
	4	90% COMPLETE - ISSUED FOR UTILITY CIRCULATION	LDM	26-01-10
	5	90% COMPLETE - ISSUED FOR TENDER	LDM	10-02-10



**SCHEDULE "A"**



95.281	96.326	95.361	95.386	95.431	95.466	95.501	95.536	95.571	95.606	95.641	95.676	95.711	95.683	95.618	95.568	95.518	95.468	95.418	95.368	95.318	95.268	95.220	95.180	95.148	95.125	95.109	95.102	95.104	95.114	95.132	95.159	⊕ PROFILE			
																																			TOP OF WATERMAIN
																	92.092	91.986		91.991	92.091													LOCATE AT LOW POINT	
																																			SANITARY INVERT
13+200	13+220	13+240	13+260	13+280	13+300	13+320	13+340	13+360	13+380	13+400	13+420	13+440	13+460	13+480	13+500																			STATION	

DRAWING FRAME: 700mm x 334mm City of Ottawa 2008

ISB05-5123-017-GR1

**TERRY FOX DRIVE**  
 RICHARDSON SIDE ROAD TO SECOND LINE ROAD  
 PRELOADING AND FLOODPLAIN COMPENSATION

**Ottawa**

Contract No. **ISB05-5068** Dwg. No. **122**  
 Sheet **022** of **027**

**GRADING PLAN**  
 CARP COMPENSATION AREA STA 40+000 TO STA 40+600

**B. MASON, P.ENG** Manager - Construction Services West  
**S. STODDARD, P.ENG** Senior Project Manager

Asset Group  
 Div. **RG** CH'G. **LDM**  
 Dwn. **NTB** CH'G. **BGH**  
 Utility Circ. No. Index No.  
 Const. Inspector

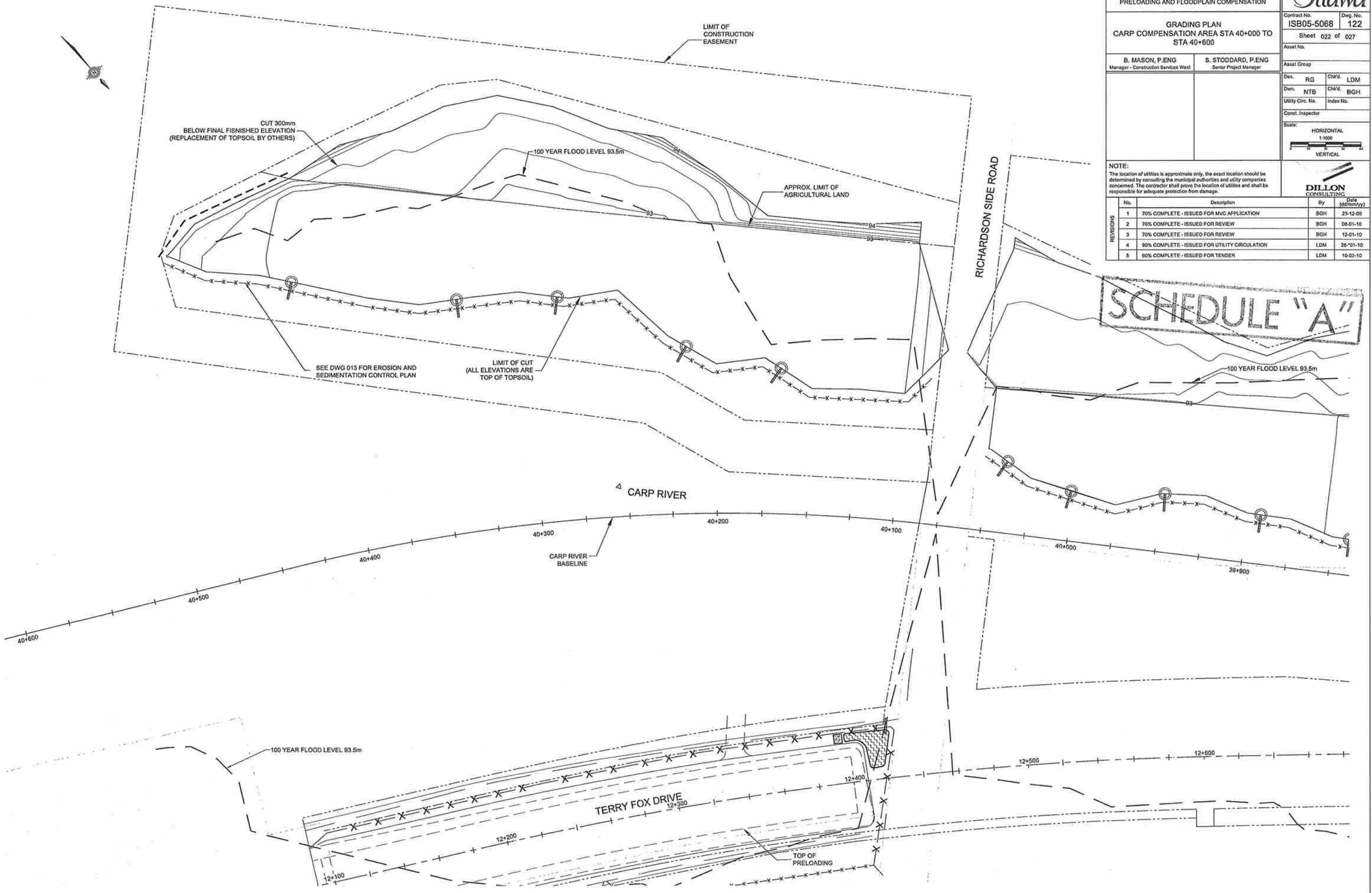
Scale:  
 HORIZONTAL 1:1000  
 VERTICAL

**NOTE:**  
 The location of utilities is approximate only, the exact location should be determined by consulting the municipal authorities and utility companies concerned. The contractor shall prove the location of utilities and shall be responsible for adequate protection from damage.

No.	Description	By	Date (dd/mm/yyyy)
1	70% COMPLETE - ISSUED FOR MVG APPLICATION	BGH	23-12-09
2	70% COMPLETE - ISSUED FOR REVIEW	BGH	08-01-10
3	70% COMPLETE - ISSUED FOR REVIEW	BGH	12-01-10
4	90% COMPLETE - ISSUED FOR UTILITY CIRCULATION	LDM	26-01-10
5	90% COMPLETE - ISSUED FOR TENDER	LDM	10-02-10

**DILLON CONSULTING**

**SCHEDULE "A"**



DRAWING FRAME: 70mm x 53mm City of Ottawa 2006

ISB05-5123-018-GR02

**TERRY FOX DRIVE**  
 RICHARDSON SIDE ROAD TO SECOND LINE ROAD  
 PRELOADING AND FLOODPLAIN COMPENSATION

**Ottawa**

Contract No. ISB05-5068 Dwg. No. 123  
 Sheet 023 of 027

Asset No. \_\_\_\_\_  
 Asset Group \_\_\_\_\_

B. MASON, P.ENG Manager - Construction Services West  
 S. STODDARD, P.ENG Senior Project Manager

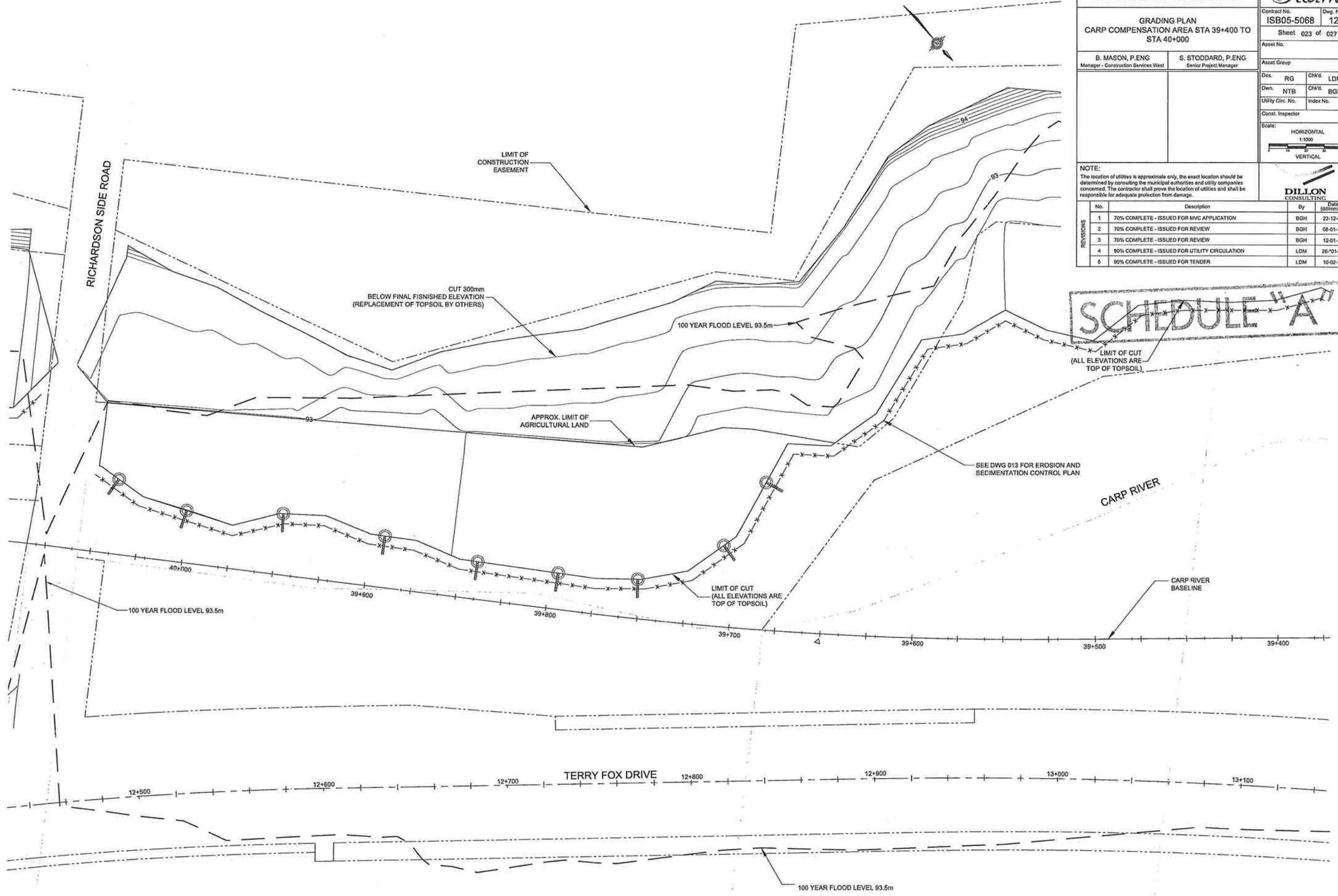
Des. RG Csk'd LDM  
 Dwn. NTB CHK'd BGH  
 Const. Inspector \_\_\_\_\_

Scale: HORIZONTAL 1:500  
 VERTICAL \_\_\_\_\_

**NOTE:**  
 The location of utilities is approximate only, the exact location should be determined by consulting the municipal authorities and utility companies concerned. The contractor shall prove the location of utilities and shall be responsible for adequate protection from damage.

No.	Description	By	Date (dd/mm/yy)
1	70% COMPLETE - ISSUED FOR MVC APPLICATION	BGH	23-12-09
2	70% COMPLETE - ISSUED FOR REVIEW	BGH	06-01-10
3	70% COMPLETE - ISSUED FOR REVIEW	BGH	12-01-10
4	90% COMPLETE - ISSUED FOR UTILITY CIRCULATION	LDM	26-01-10
5	90% COMPLETE - ISSUED FOR TENDER	LDM	10-02-10

**DILLON CONSULTING**





DRAWING FRAME: 760mm x 534mm City of Ottawa 2008

ISB05-5123-018-GR43

**TERRY FOX DRIVE**  
 RICHARDSON SIDE ROAD TO SECOND LINE ROAD  
 PRELOADING AND FLOODPLAIN COMPENSATION

**GRADING PLAN**  
 CARP COMPENSATION AREA STA 38+800 TO  
 STA 39+400

B. MASON, P.ENG Manager - Construction Services West	S. STODDARD, P.ENG Senior Project Manager
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Contract No. ISB05-5068    Dwg. No. 124  
 Sheet 024 of 027

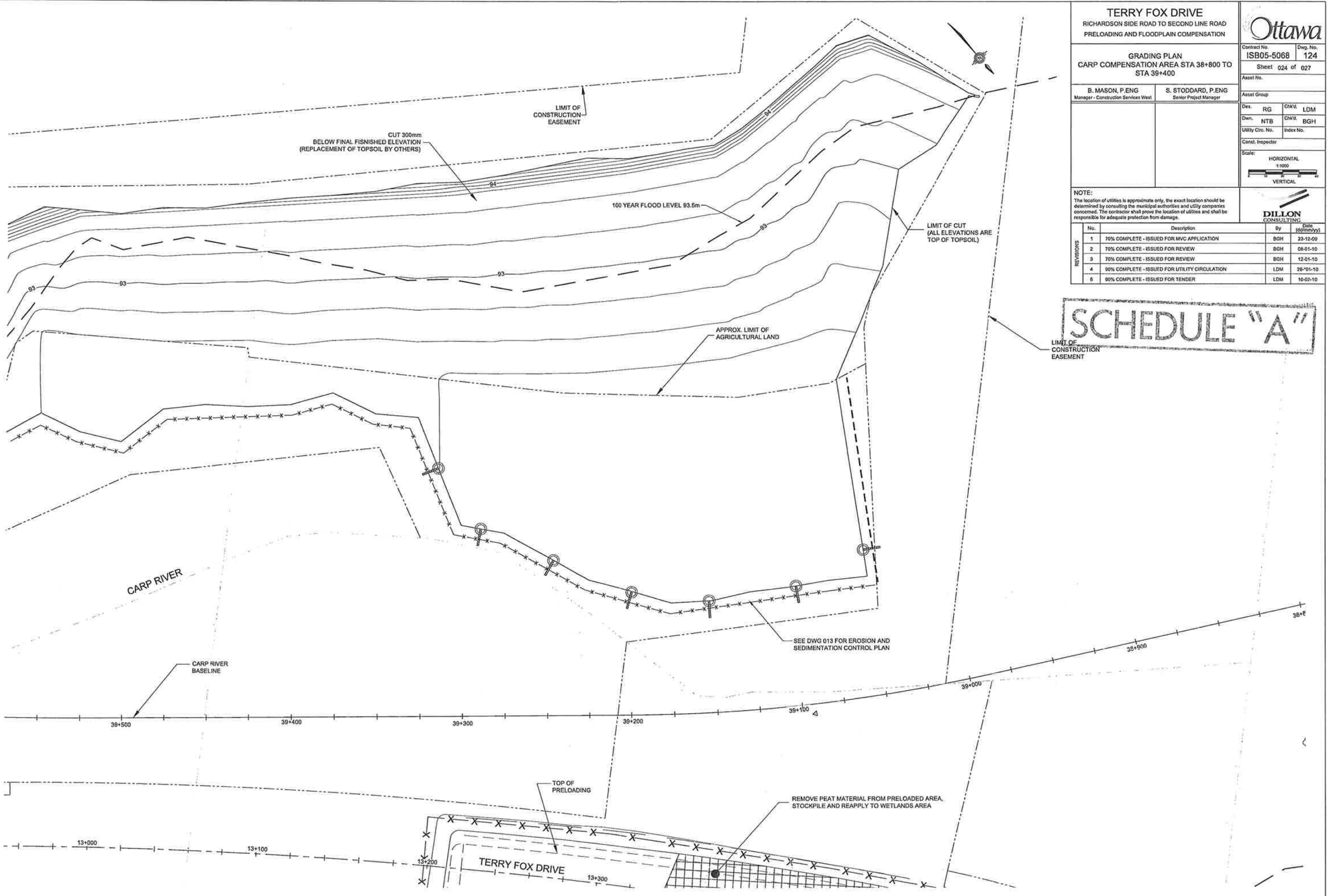
Des.	RG	CHK'd	LDM
Dwn.	NTB	CHK'd	BGH
Utility Ctr. No.		Index No.	

Scale: HORIZONTAL 1:1000  
 VERTICAL

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REVISIONS	No.	Description	By	Date (dd/mm/yy)
	1	70% COMPLETE - ISSUED FOR MVC APPLICATION	BGH	23-12-09
	2	70% COMPLETE - ISSUED FOR REVIEW	BGH	08-01-10
	3	70% COMPLETE - ISSUED FOR REVIEW	BGH	12-01-10
	4	90% COMPLETE - ISSUED FOR UTILITY CIRCULATION	LDM	28-01-10
	5	90% COMPLETE - ISSUED FOR TENDER	LDM	10-02-10

# SCHEDULE "A"



**TERRY FOX DRIVE**  
 RICHARDSON SIDE ROAD TO SECOND LINE ROAD  
 PRELOADING AND FLOODPLAIN COMPENSATION

**EROSION AND SEDIMENTATION CONTROL**  
 CARP RIVER FLOODPLAIN COMPENSATION

B. MASON, P.ENG  
 Manager - Construction Services West

S. STODDARD, P.ENG  
 Senior Project Manager

Contract No. ISB05-5068  
 Deg. No. 125  
 Sheet 025 of 027

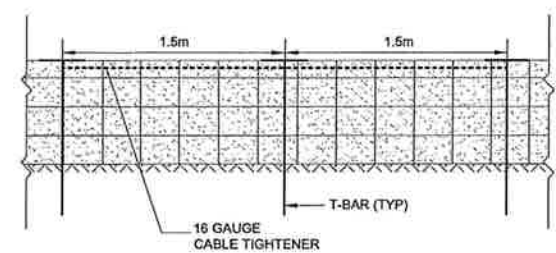
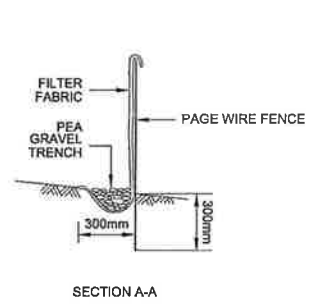
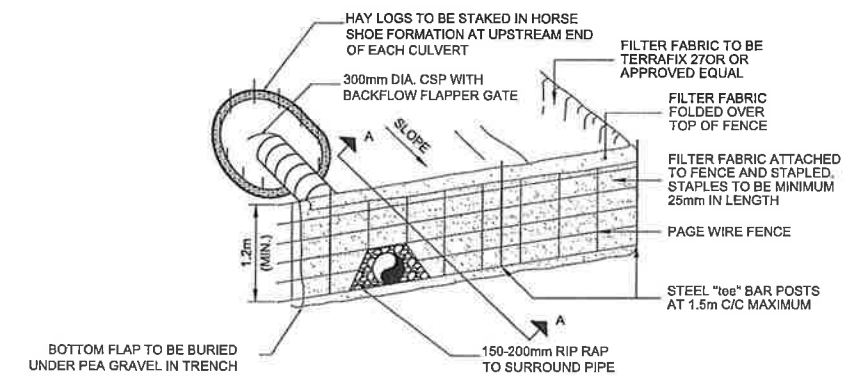
Asset No. \_\_\_\_\_  
 Asset Group \_\_\_\_\_

Des. RG CHW LDM  
 Dwn. NTB CWS BGH  
 Utility Circ. No. \_\_\_\_\_ Index No. \_\_\_\_\_  
 Const. Inspector \_\_\_\_\_

Scale: HORIZONTAL 1:2000  
 VERTICAL \_\_\_\_\_

**DILLON CONSULTING**

- NOTES**
- SILT SACKS TO BE REPLACED EVERY TWO DAYS WHILE BEING USED, DISPOSE IN APPROVED LANDFILL OFFSITE.
  - SILT FENCE REMOVALS BY OTHERS.
  - STRENGTHEN SILT FENCE CORNER POSTS WITH CABLE TIGHTENERS.
  - SURROUND CSP PIPE BREACH WITH RIP RAP TRAPPING FILTER CLOTH UNDERNEATH.
  - ADDITIONAL "A" FRAME BRACING TO BE ADDED TO SILT FENCE AT 12m INTERVALS. IF WITHIN 50m OF CARP RIVER, THEN INSTALL ADDITIONAL BRACING AT 6m INTERVALS.



**PAGE WIRE SILT FENCE DETAILS**  
 NOT TO SCALE

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No.	Description	By	Date (dd/mm/yy)
1	90% COMPLETE - ISSUED FOR UTILITY CIRCULATION	LDM	28-01-10
2	90% COMPLETE - ISSUED FOR TENDER	LDM	10-02-10

