

Stephen Peters

From: PK Chatterji <pkchatterji@thurber.ca>
Sent: Tuesday, July 09, 2013 9:56 AM
To: speters@thurber.ca
Subject: FW: 2010-2001 Highway 404 Stockpiles at Doane Road Interchange
Attachments: 2013-06-11 MTO-Stockpile.pdf; RE_ Highway 404_ Doane Road interchange.pdf; Stockpile.pdf

Regards,

P.K. Chatterji, Ph.D, P.Eng.
Principal / Senior Geotechnical Engineer

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From: Wong, Felix KY [<mailto:Felix.ky.Wong@amec.com>]
Sent: June-11-13 1:50 PM
To: Kandiah, Nanda (MTO)
Cc: Coffey, Bryan (MTO); Di Sabatino, Antonio (MTO); Nykoluk, Mark; PK Chatterji; Sinke, David
Subject: 2010-2001 Highway 404 Stockpiles at Doane Road Interchange

Nanda,

Please find attached memo and drawings for the Doane Road interchange stockpiles. Should you have any questions or comments, please do not hesitate to contact me.

Thank you,

Felix

Felix Wong, P. Eng.
Transportation Project Engineer
AMEC
Environment & Infrastructure
3215 North Service Rd, Burlington, ON L7N 3G2
Tel (905) 335-2353 X234
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Memo

To: **Nanda Kandiah**

File no: 107144

From: Felix Wong

Date: June 11, 2013

c.c.: Bryan Coffey - MTO
Antonio Di Sabatino – MTO
Mark Nykoluk – York Region
P.K. Chatterji - Thurber
David Sinke - AMEC

Subject: 2010-2001 Highway 404 Stockpiles at Doane Road Interchange

Background

As part of the Highway 404 construction, excess fill material was generated in the north Highway 404 contract (Queensville Sideroad to Ravenshoe Road). MTO requested AMEC to review the opportunity to construct permanent fill stockpiles within the future Doane Road interchange for permanent storage of the excess earth material.

AMEC completed a preliminary layout design for the fill placements showing stockpiles located outside of the fill regulated areas based on the mapping from LSRCA. The stockpile location is also outside of the future grading footprint of the Doane Road interchange. AMEC contacted both LSRCA and York Region to confirm their acceptance of the preliminary design (correspondences attached). Based on the correspondence, except for the necessity for erosion control measures, both LSRCA and York Region have no concerns with the design.

Proposed Design and Stockpile Volume

AMEC has completed the detailed design of the stockpiles and the design has been reviewed by Thurber Engineering Ltd. Attached to this memo is Drawing sheets 1 to 4 showing the stockpile location and details.

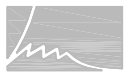
Based on InRoads volumes calculations with 10% shrinkage factor, the possible volume of fill placement are approximated as follows:

Stockpile A	2,500 m ³
Stockpile B	11,900 m ³
Stockpile C	3,285 m ³
Total	17,685 m³


As noted on the drawing, the following conditions apply for the construction of the stockpiles to mitigate erosions and sedimentation:

- Assuming construction of stockpiles in summer 2013, hydroseed shall be applied on all surfaces of the stockpile, prior to October 1, 2013;
- The material shall be placed in 600mm lifts and compacted by grading equipment. Attention to be paid to exclude voids in the placed material;
- All topsoil, organics, soft or disturbed materials shall be removed from the footprint of the stockpiles;
- The stockpile material shall be comprised of inorganic material from the cut areas, with a moisture content near the measured in situ values. Topsoil, organics, snow/ice, excessively wet or otherwise deleterious material shall not be placed in the stockpile;

METRIC
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN




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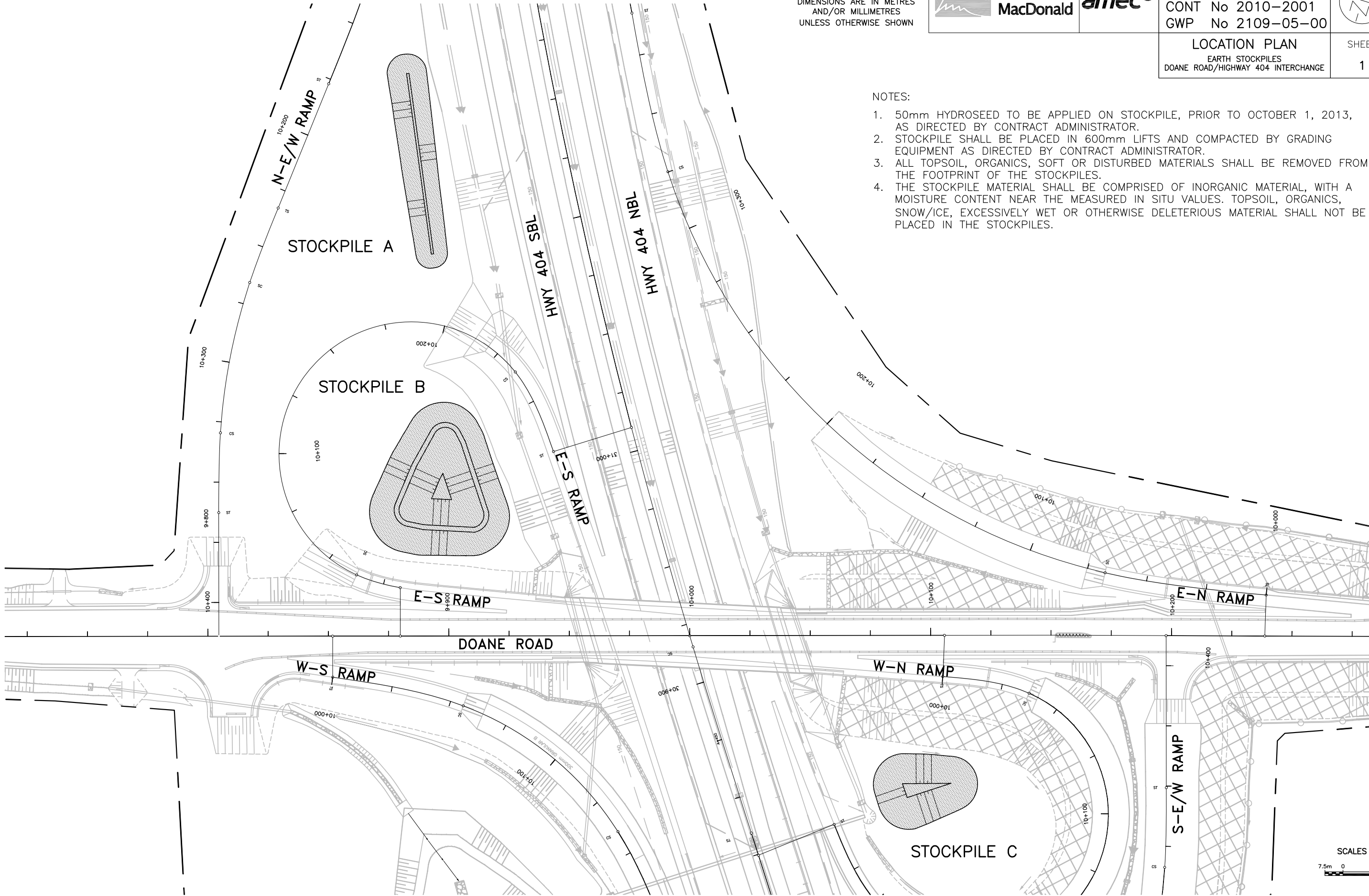
PLATE No
DRAWING No
CONT No 2010-2001
GWP No 2109-05-00

LOCATION PLAN
EARTH STOCKPILES
DOANE ROAD/HIGHWAY 404 INTERCHANGE



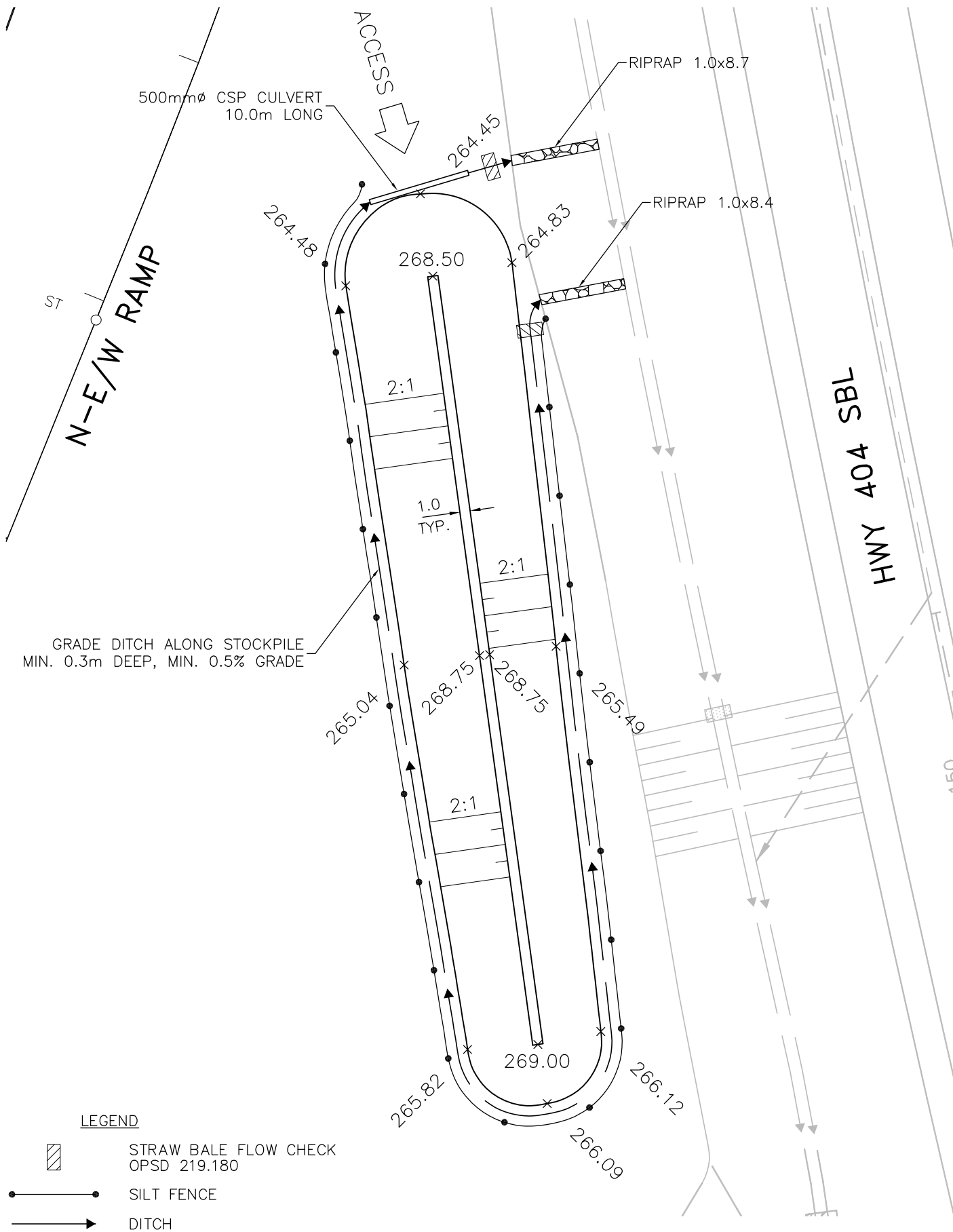
SHEET
1

- NOTES:
- 50mm HYDROSEED TO BE APPLIED ON STOCKPILE, PRIOR TO OCTOBER 1, 2013, AS DIRECTED BY CONTRACT ADMINISTRATOR.
 - STOCKPILE SHALL BE PLACED IN 600mm LIFTS AND COMPACTED BY GRADING EQUIPMENT AS DIRECTED BY CONTRACT ADMINISTRATOR.
 - ALL TOPSOIL, ORGANICS, SOFT OR DISTURBED MATERIALS SHALL BE REMOVED FROM THE FOOTPRINT OF THE STOCKPILES.
 - THE STOCKPILE MATERIAL SHALL BE COMPRISED OF INORGANIC MATERIAL, WITH A MOISTURE CONTENT NEAR THE MEASURED IN SITU VALUES. TOPSOIL, ORGANICS, SNOW/ICE, EXCESSIVELY WET OR OTHERWISE DELETERIOUS MATERIAL SHALL NOT BE PLACED IN THE STOCKPILES.



SEE SHEET 1 FOR GENERAL NOTES.

PR-D-709 88-05 Hatch Mott MacDonald/Philips Engineering Ltd. 6:\Work\107144\Hwy Dwg\Felix\Fill Locations\2013-05-10\Plan.dwg



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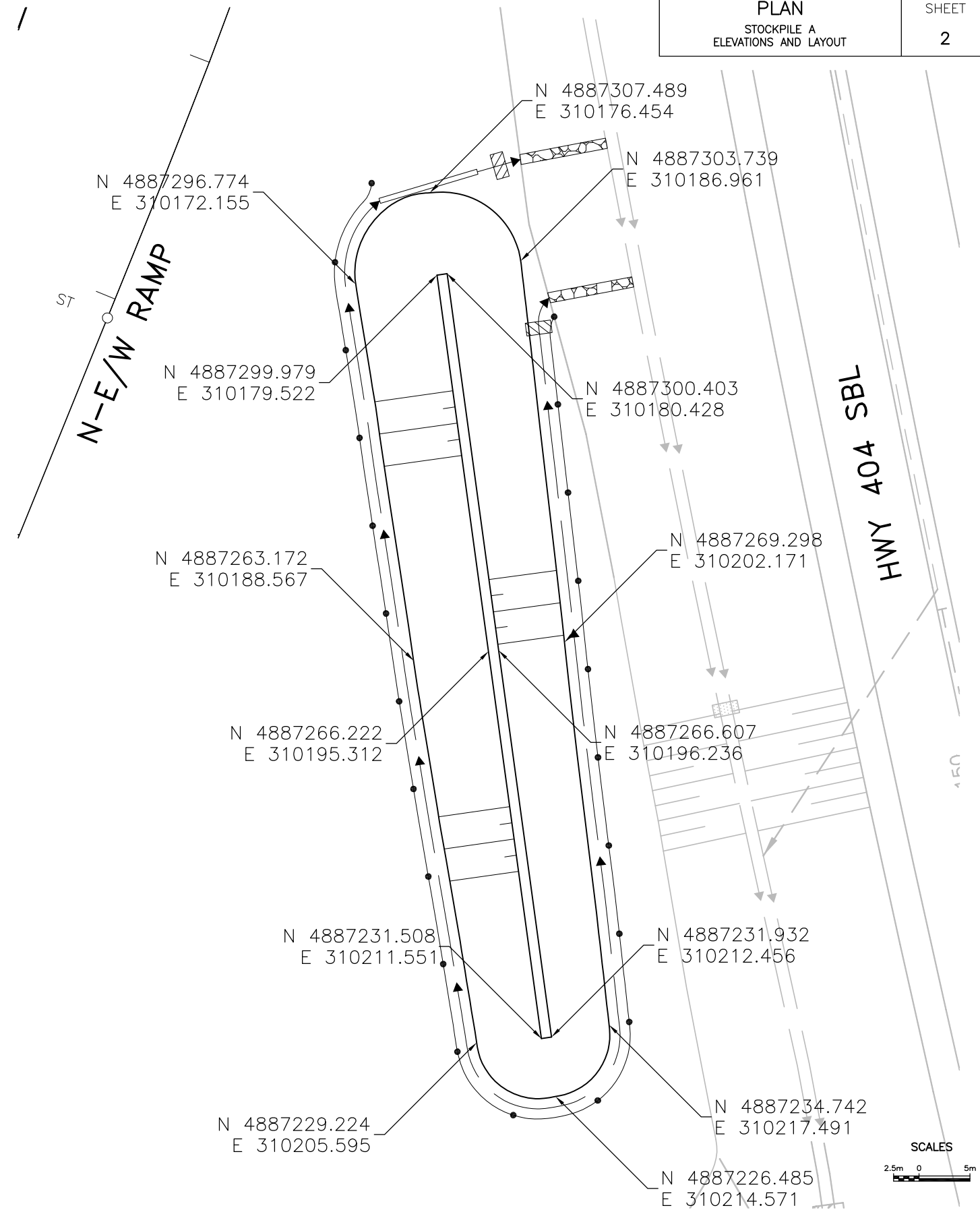


PLATE No
DRAWING No
CONT No 2010-2001
GWP No 2109-05-00



PLAN
STOCKPILE A
ELEVATIONS AND LAYOUT

SHEET
2

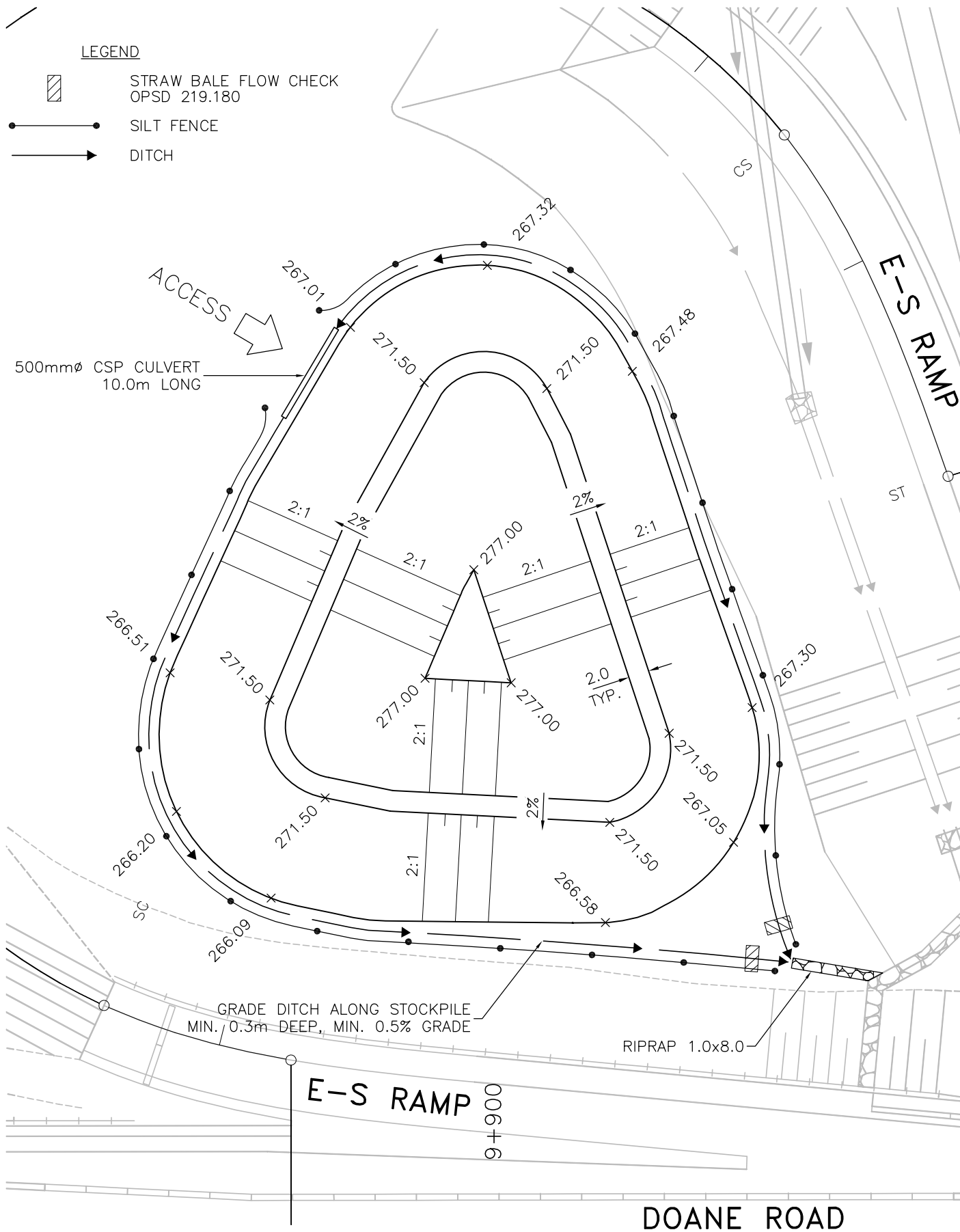


SCALES
2.5m 0 5m

SEE SHEET 1 FOR GENERAL NOTES.

LEGEND

- STRAW BALE FLOW CHECK
OPSD 219.180
- SILT FENCE
- DITCH



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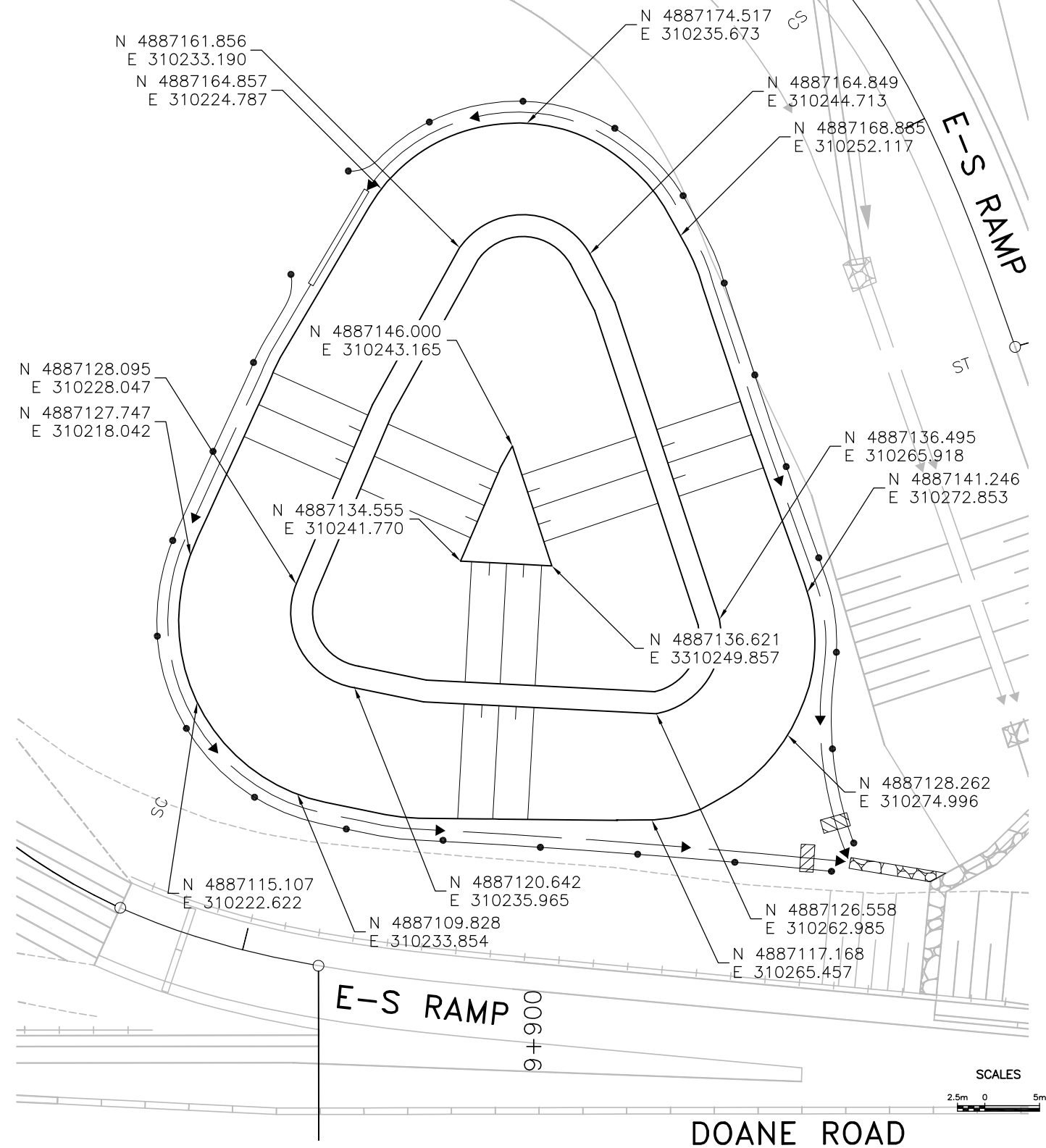
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PLATE No
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GWP No 2109-05-00

PLAN
STOCKPILE B
ELEVATIONS AND LAYOUT

SHEET
3



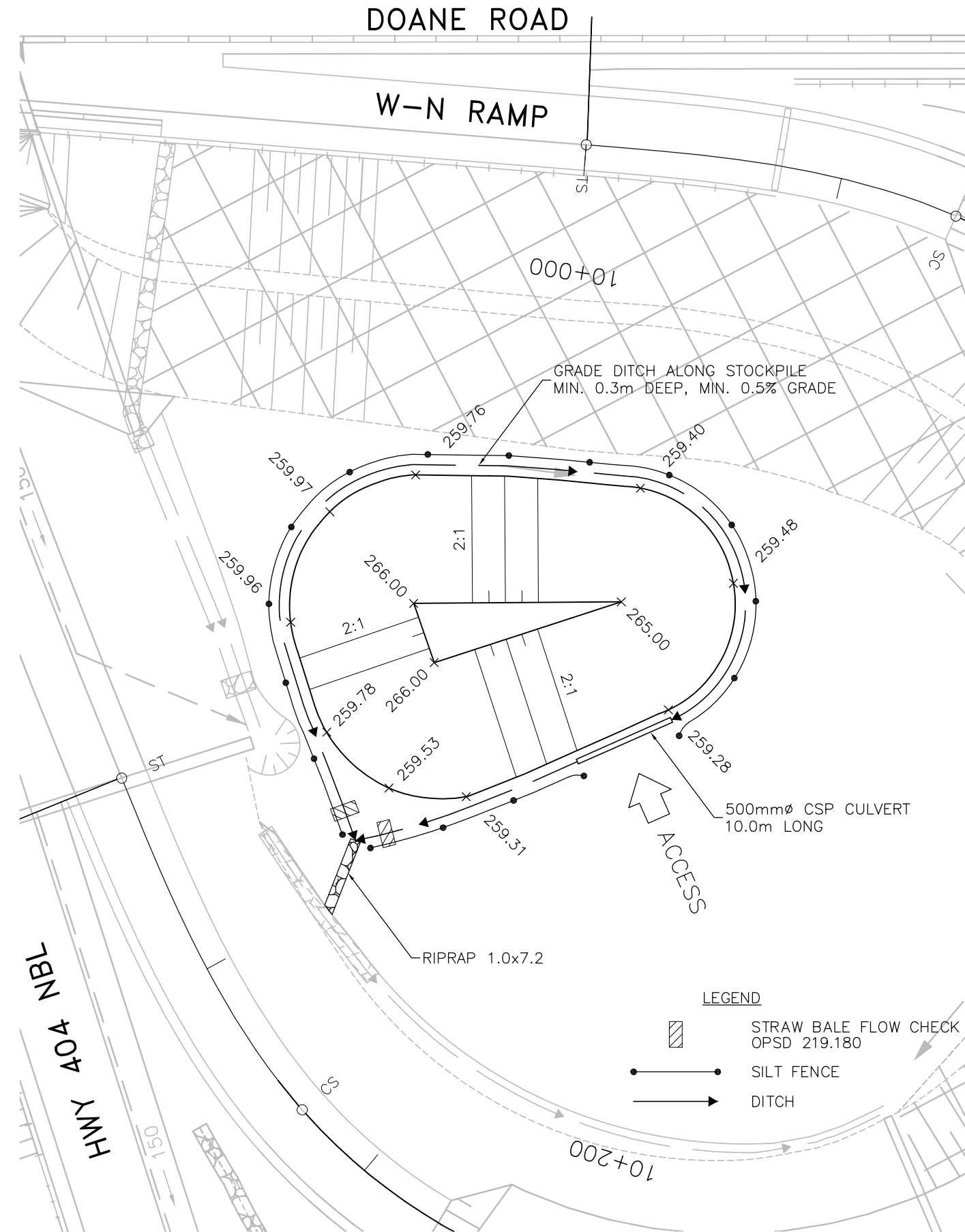
SCALES
2.5m 0 5m

SEE SHEET 1 FOR GENERAL NOTES.

88-05

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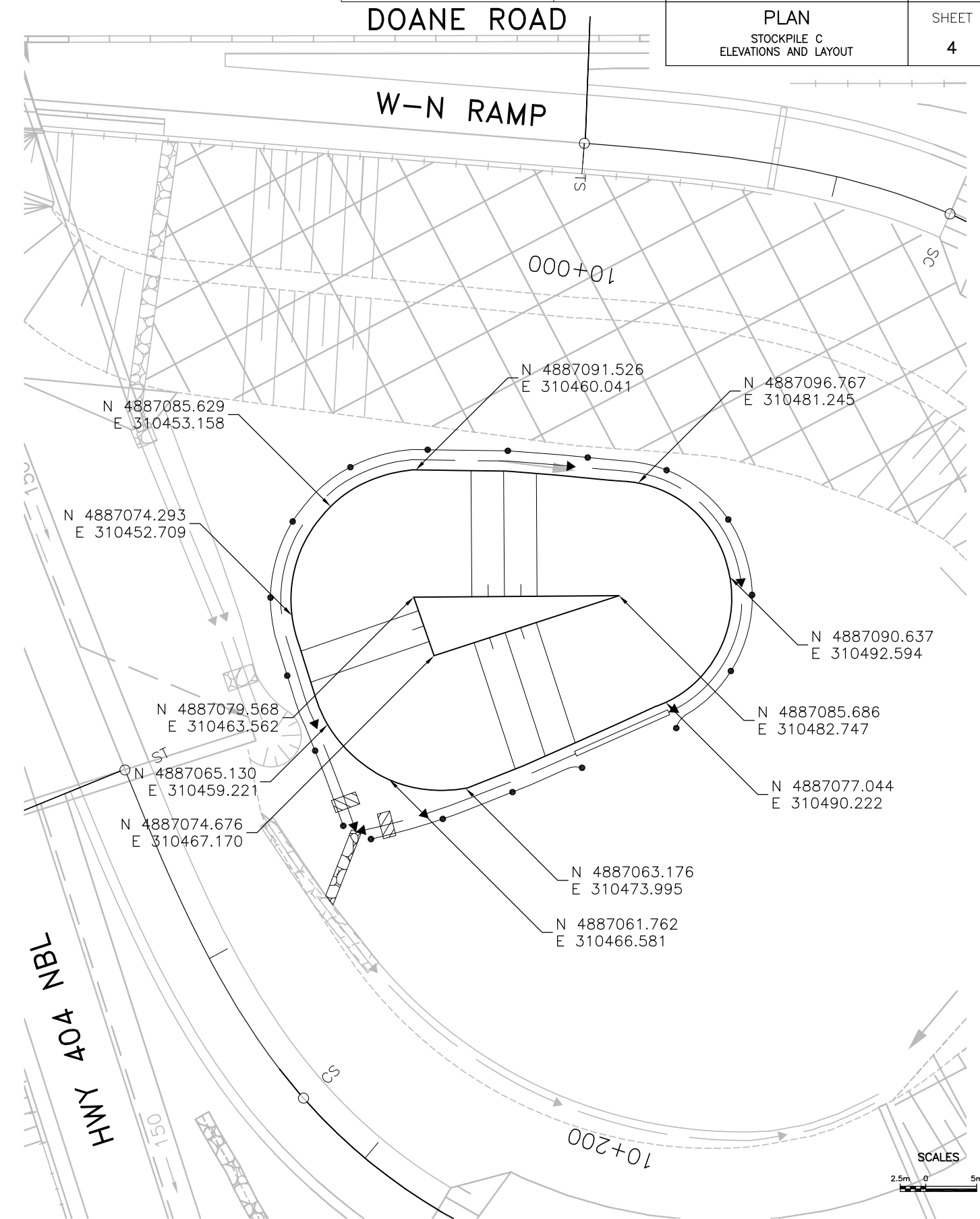


PLATE No
DRAWING No
CONT No 2010-2001
GWP No 2109-05-00



PLAN
STOCKPILE C
ELEVATIONS AND LAYOUT

SHEET
4



Wong, Felix KY

From: Nykoluk, Mark [Mark.Nykoluk@york.ca]
Sent: June-03-13 1:32 PM
To: Wong, Felix KY
Cc: Kandiah, Nanda (MTO); Di Sabatino, Antonio (MTO); Coffey, Bryan (MTO); Sinke, David
Subject: RE: Highway 404/ Doane Road interchange

Hi Felix,

The Region does not have concerns with MTO placing its fill permanently within MTO limits.

Regards,
Mark

From: Wong, Felix KY [mailto:Felix.ky.Wong@amec.com]
Sent: Wednesday, May 29, 2013 10:16 AM
To: Nykoluk, Mark
Cc: Kandiah, Nanda (MTO); Di Sabatino, Antonio (MTO); Coffey, Bryan (MTO); Sinke, David
Subject: RE: Highway 404/ Doane Road interchange

Mark,

We have reviewed three possible stockpile locations with the Highway 404 / Doane Road interchange as shown in the attached sketch. These are permanent stockpiles which will remain on site upon completion of the construction. These areas are outside of the future Doane Road interchange ramp grading footprint. We have consulted with LSRCAs as noted below and their only concern is with regards to erosion and sediment controls. Can you please review and advise if York Region has any concerns with these stockpiles? Once we have the consensus of all parties, we will proceed with the detailed design of the stockpiles, which include all the erosion and sediment control measures.

Thanks,

Felix

From: Tom Hogenbirk [mailto:T.Hogenbirk@lsrca.on.ca]
Sent: May-29-13 10:07 AM
To: Wong, Felix KY
Cc: Rob Baldwin; Kandiah, Nanda (MTO); Di Sabatino, Antonio (MTO); Coffey, Bryan (MTO); Sinke, David
Subject: RE: Highway 404/ Doane Road interchange

Felix: Our previous email listed our general concerns as the proposed fill sites are outside our regulated areas. We have not reviewed the proposed works under any Federal or Provincial Acts.

Proper design, installation monitoring and maintenance of these erosion and sediment controls by a qualified consultant / contractor with on-going inspection by MTO would be future concerns of the CA when the work is commenced. Tom



Tom Hogenbirk, P.Eng.
Manager, Engineering and Technical Services
Lake Simcoe Region Conservation Authority
120 Bayview Parkway, Box 282, Newmarket, Ontario L3Y 4X1



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From: Wong, Felix KY [<mailto:Felix.ky.Wong@amec.com>]
Sent: May-27-13 4:10 PM
To: Tom Hogenbirk
Cc: Rob Baldwin; Kandiah, Nanda (MTO); Di Sabatino, Antonio (MTO); Coffey, Bryan (MTO); Sinke, David
Subject: RE: Highway 404/ Doane Road interchange

Tom,

Once both LSRCA and York Region has reviewed and commented on the preliminary layout, we will complete the detailed design of these stockpile. As such time, sediment control measures including off take ditches, rip rap, silt fence, SBFC will be detailed. As well, we would specified that the stock piles shall be topsoil and seeded.

Please confirm and advise if you have any further concerns. Once we receive your confirmation, we will confirm if York Region has any further comments and then finalize the detail design of the stockpiles.

Thanks,

Felix

From: Tom Hogenbirk [<mailto:T.Hogenbirk@lsrca.on.ca>]
Sent: May-27-13 4:03 PM
To: Wong, Felix KY
Cc: Rob Baldwin
Subject: Highway 404/ Doane Road interchange

Felix: As per your email below, the main concern that we would have would be the release of sediment. We strongly recommend that proper sediment controls be installed around all stockpile areas and monitored and maintained by a qualified contractor. Where at all possible, the stockpiles should be top-soiled and seeded such that they become stabilized. Tom



Tom Hogenbirk, P.Eng.
Manager, Engineering and Technical Services
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From: Wong, Felix KY
Sent: May-27-13 1:33 PM
To: 'Rob Baldwin (r.baldwin@lsrca.on.ca)'
Cc: Sinke, David; 'Kandiah, Nanda (MTO)'
Subject: Highway 404/ Doane Road interchange

Rob,

As you may be aware, MTO is currently under construction for the new Highway 404 from **Green Lane** to Queensville Sideroad. As part of the construction, a new interchange at Doane Road is being proposed and partly constructed. The Doane Road interchange itself will be fully completed by York Region at a later date. The Doane Road interchange itself is part of the Municipal Class EA completed by York Region.

As part of the Highway 404 construction, MTO would like to construct permanent fill stock piles within the future interchange for permanent storage of the excess earth material that is generated during construction. We have completed a preliminary layout design for the fill placements as shown in the attached PDF. These stockpiles are outside of the fill regulation areas based on the mapping from LSRCA.

The Municipal Class EA requires that “any significant modification to the project or change in the environmental setting be reviewed and an addendum to the ESR written.” In our opinion, significant fill volume has been approved for placement within these areas (Doane Rd interchange ramps and Doane Road embankment) to date; the placement of the additional fill within the interchange loops is not a “significant modification.” Can you please review and confirm if LSRCA has any concerns with these stockpile?

Thanks,

Felix

Felix Wong, P. Eng.
Transportation Project Engineer
AMEC

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