

SEDIMENT CONTROL CONSTRUCTION SCHEDULE

- 1) INSTALL PERIMETER ENVIRO FENCE.
- 2) STRIP SITE OF TOPSOIL AND REMOVE OFF SITE OR STOCK PILE AND PROVIDE ENVIRO FENCE AROUND BOTTOM OF PILE.
- 3) INSTALL CATCHBASIN FILTRATION ON ALL CATCHBASINS AND CATCHBASIN MANHOLES.
- 4) SEDIMENT CONTROL MEASURES ARE TO BE MAINTAINED UNTIL ALL AREAS OF THE SITE HAVE BEEN STABILIZED WITH SOD OR ASPHALT.

DUST CONTROL MEASURES:

A. PRE-GRADING PLANNING

- 1) THE SITE SERVICING FOR THE SITE SHALL BE SCHEDULED SUCH THAT THE OVERALL TIME THE AREAS ARE LEFT OPEN TO WIND THAT CREATE BLOWING DUST FROM THE EARTHWORK OPERATIONS IS MINIMIZED.
- 2) THE TOPSOIL STOCKPILE (IF APPLICABLE) SHALL BE STABILIZED WITHIN 30 DAYS OF STOCKPILING MATERIALS IN ACCORDANCE WITH CITY'S CRITERIA. ALL DISTURBED LANDS OUTSIDE THE PHASE OF WORK SHALL BE STABILIZED/VEGETATED.
- 3) THE CONTRACTOR SHALL APPLY WATER TO HAUL ROADS AND STOCKPILES (IF APPLICABLE) BY WAY OF WATER TRUCK.

B. WATERING (POST-GRADING)

- 4) WITHIN AREAS WHERE EARTHWORKS AND OR UNDERGROUND MUNICIPAL SERVICING IS ON-GOING, WATER IS TO BE UTILIZED AT SUFFICIENT QUANTITY TO PREVENT VISIBLE EMISSIONS FROM EXTENDING MORE THAN 30m FROM THE POINT OF ORIGIN.

C. REDUCE VEHICLE SPEED

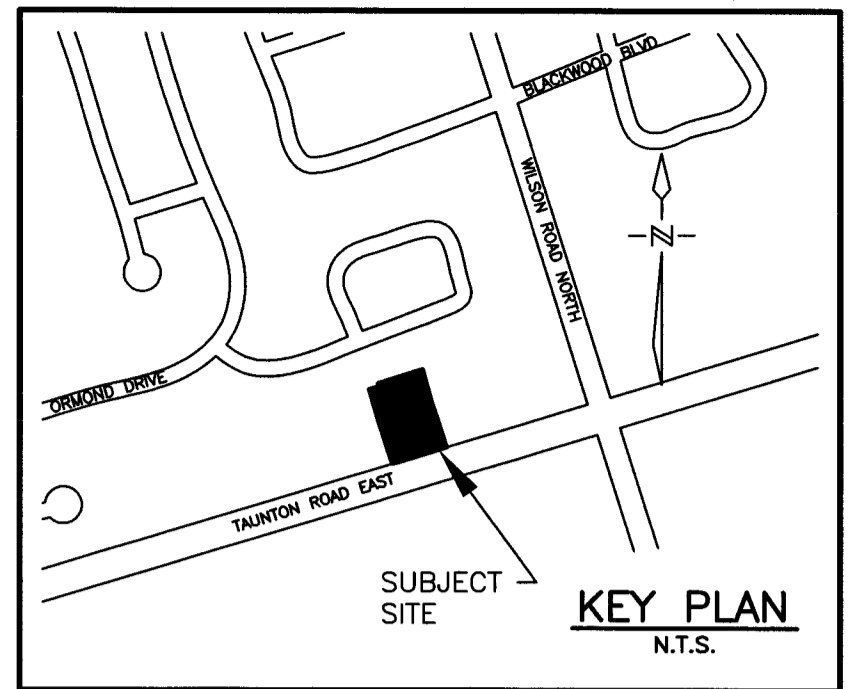
- 5) THE ON-SITE SPEED LIMIT FOR CONSTRUCTION VEHICLES SHALL BE MINIMIZED AND TO BE USED IN CONJUNCTION WITH WATERING TO PREVENT VISIBLE DUST EMISSIONS.

D. RESTRICT ACTIVITIES DURING HIGH WIND PERIODS

- 6) THE HIGH VISIBILITY OF CERTAIN WORKS AND THE CLOSE PROXIMITY AND POPULATION IMPACT SHOULD BE TAKEN INTO CONSIDERATION WHEN SCHEDULING DUST-PRODUCING WORK. APPROPRIATE DUST CONTROL MEASURES SHALL BE IN PLACE IN SUCH SITUATIONS.

E. ROAD CLEANING

- 7) SPILLAGE, EROSION, OR MATERIALS "TRACKED OUT" ON A ROAD TO BE CLEANED USING MECHANICAL STREET SWEEPERS OR FLUSHER TRUCK AT LEAST BY THE END OF THE WORK DAY. HOWEVER, IF SPILLAGE EXTENDS MORE THAN 15m ALONG A PAVED PUBLIC ROADWAY, IT MUST BE CLEANED UP IMMEDIATELY.
- 8) IMPORTING AND EXPORTING OF MATERIALS ON AND OFF-SITE WILL BE SHUT DOWN DURING AND FOLLOWING INCLEMENT WEATHER UNTIL THE ROAD SURFACES HAVE BEEN CLEANED.



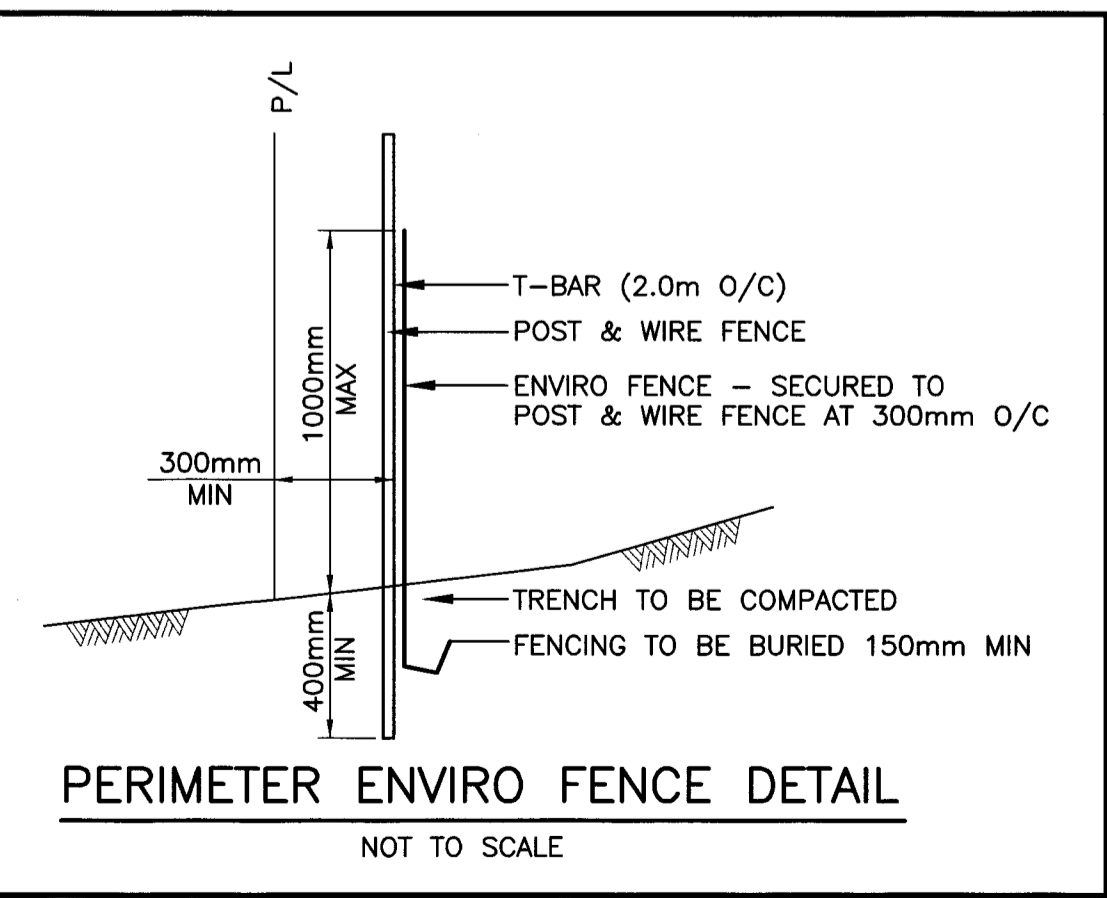
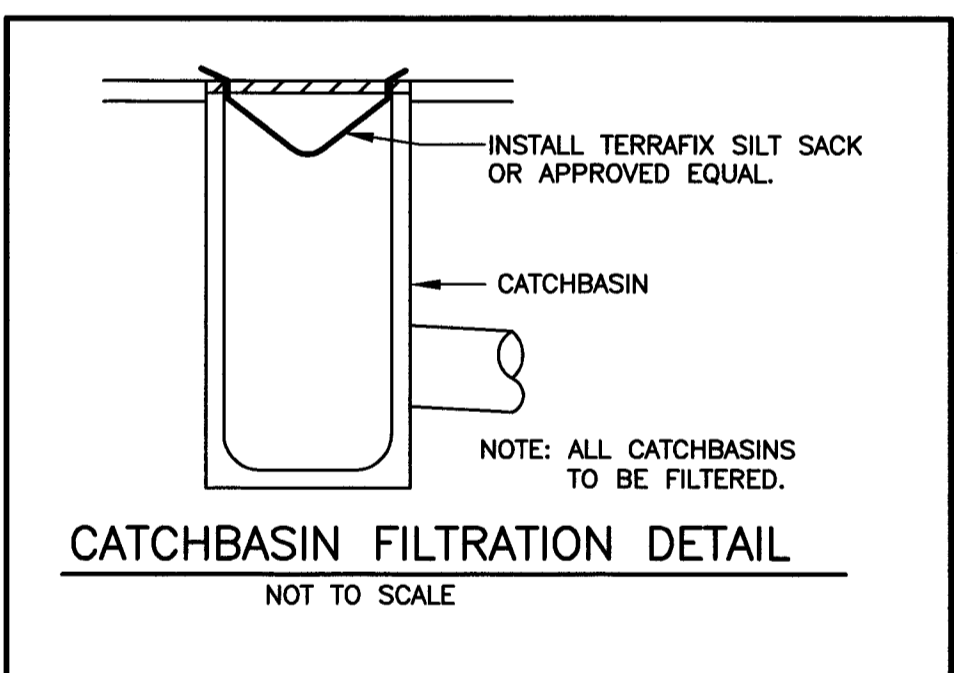
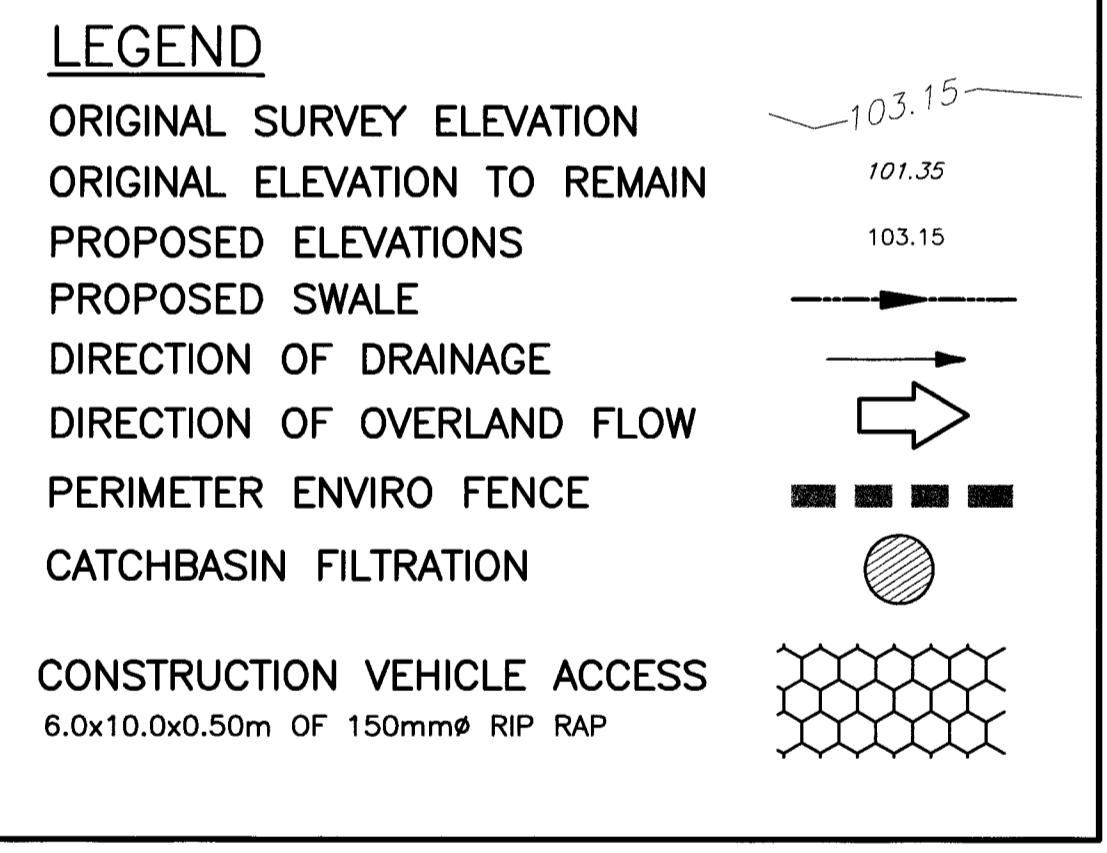
PART OF LOT 7, CONCESSION 4 & ALL OF BLOCK 41
 GEOGRAPHIC TOWNSHIP OF EAST WHITBY
 REGISTERED PLAN 40M-2334
 CITY OF OSHAWA
 REGIONAL MUNICIPALITY OF DURHAM

OSHAWA BENCHMARK No. 270

PLAQUE TO TOP FOUNDATION OF PETRO-CAN BUILDING (#523 TAUNTON ROAD EAST) 0.80m SOUTH OF NORTH EAST CORNER OF TAUNTON ROAD EAST AND WILSON ROAD NORTH
 ELEVATION - 158.014m

SEDIMENT EROSION AND CONTROL NOTES:

- 1) SILTATION CONTROL FENCING TO BE INSPECTED (BY CITY OF OSHAWA AND OWNER/AGENTS REPRESENTATIVE) AND INSTALLED PRIOR TO CONSTRUCTION.
- 2) SILT FENCE LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS ARE TO BE DETERMINED ON SITE BY THE CONTRACTOR IN CONSULTATION WITH THE CITY, ENGINEER, AND OWNER.
- 3) NO CONSTRUCTION ACTIVITY OR MACHINERY SHALL INTRUDE BEYOND SILTATION FENCING OR LIMIT OF DEVELOPMENT.
- 4) ALL CONSTRUCTION VEHICLES ARE TO ENTER AND LEAVE THE SITE AT THE APPROVED LOCATION ONLY.
- 5) OWNER, ENGINEER, AND CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL SILTATION CONTROL DEVICES AND STRUCTURES IN GOOD CONDITION AT ALL TIMES. INSPECTIONS ARE TO BE SCHEDULED REGULARLY AND AFTER EACH RAINFALL EVENT.
- 6) SEDIMENT TO BE REMOVED FROM BEHIND SILT FENCES WHEN IT IS ONE-THIRD TO HALF WAY UP THE FILTER CLOTH.
- 7) EXISTING VEGETATION SHALL NOT BE IMPACTED BY THE INSTALLATION OF EROSION/SEDIMENTATION CONTROL DEVICES.
- 8) REDUCTION/REMOVAL OF ANY EROSION OR SEDIMENT CONTROL MEASURES MUST BE APPROVED BY THE CITY, ONLY UPON RECEIVING OFFICIAL REQUEST FROM CONSULTANT/OWNER.
- 9) ALL GRADING WORK SHALL COMPLY WITH THE CITY'S ENGINEERING DESIGN STANDARDS AND CRITERIA (SECTION 6).



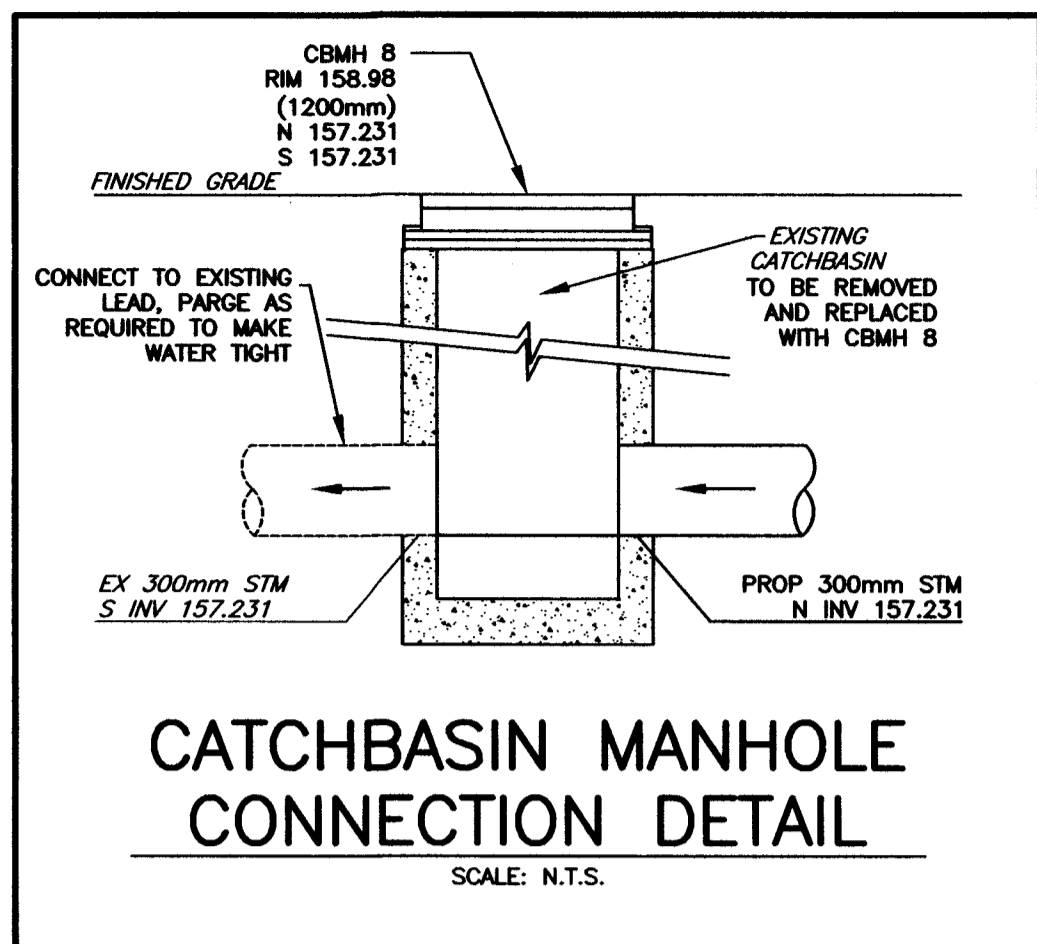
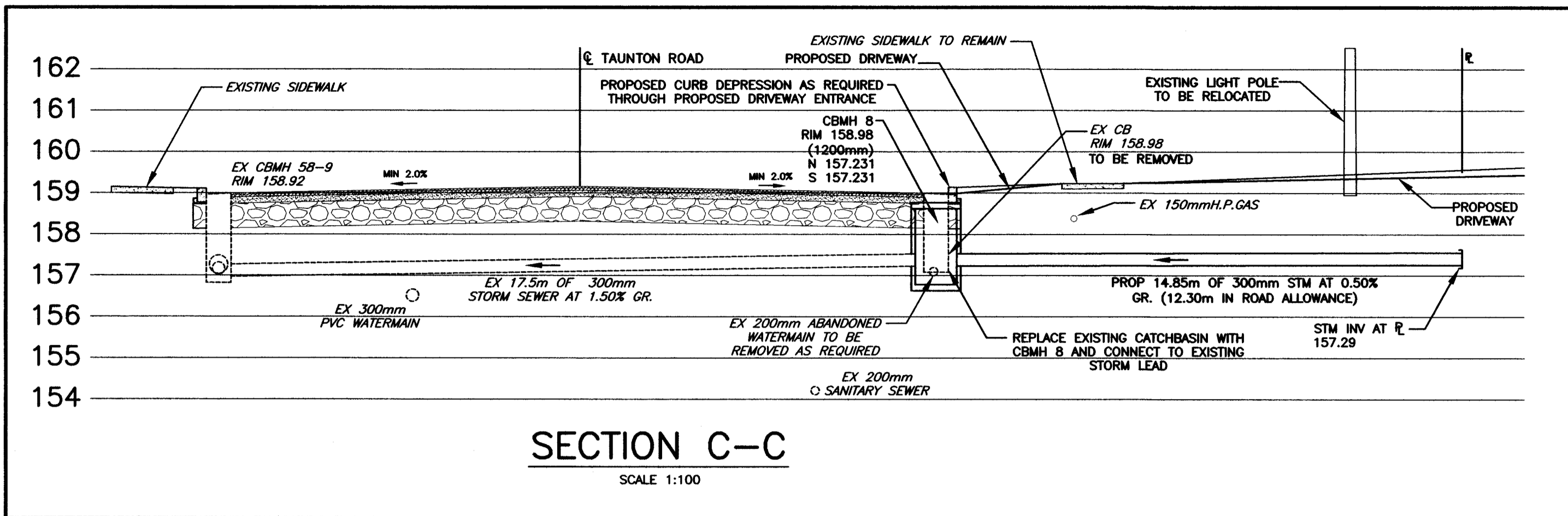
| NO. | DATE | REVISION | BY |
|-----|------------|----------------------------------|----|
| 3 | 08/31/2016 | RE-ISSUED FOR SITE PLAN APPROVAL | |
| 2 | 06/07/2016 | RE-ISSUED FOR SITE PLAN APPROVAL | |
| 1 | 01/08/2016 | ISSUED FOR SITE PLAN APPROVAL | |

REVISIONS
490 TAUNTON ROAD EAST, OSHAWA (SPA-2016-03)
EROSION AND SEDIMENT CONTROL PLAN

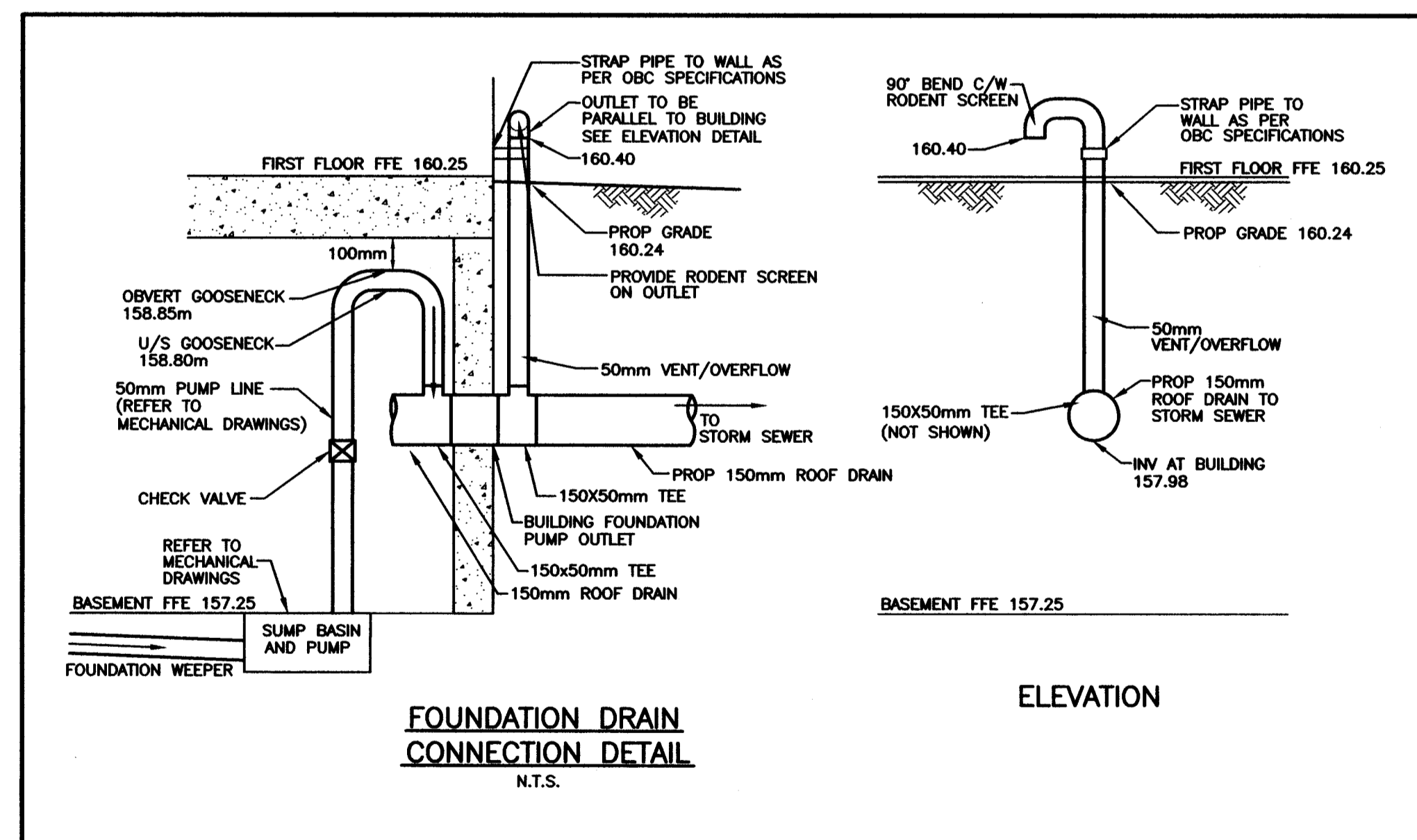
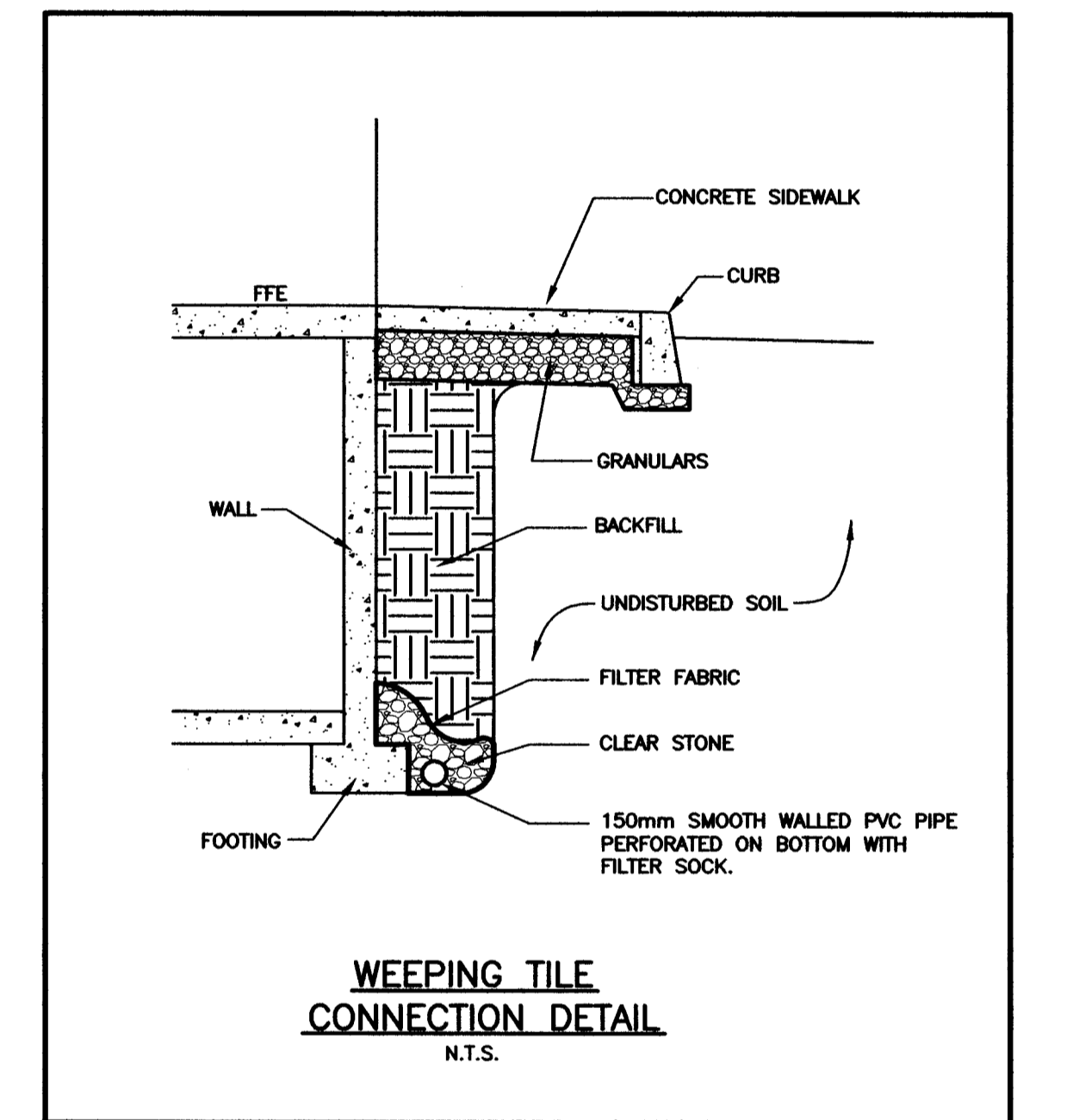
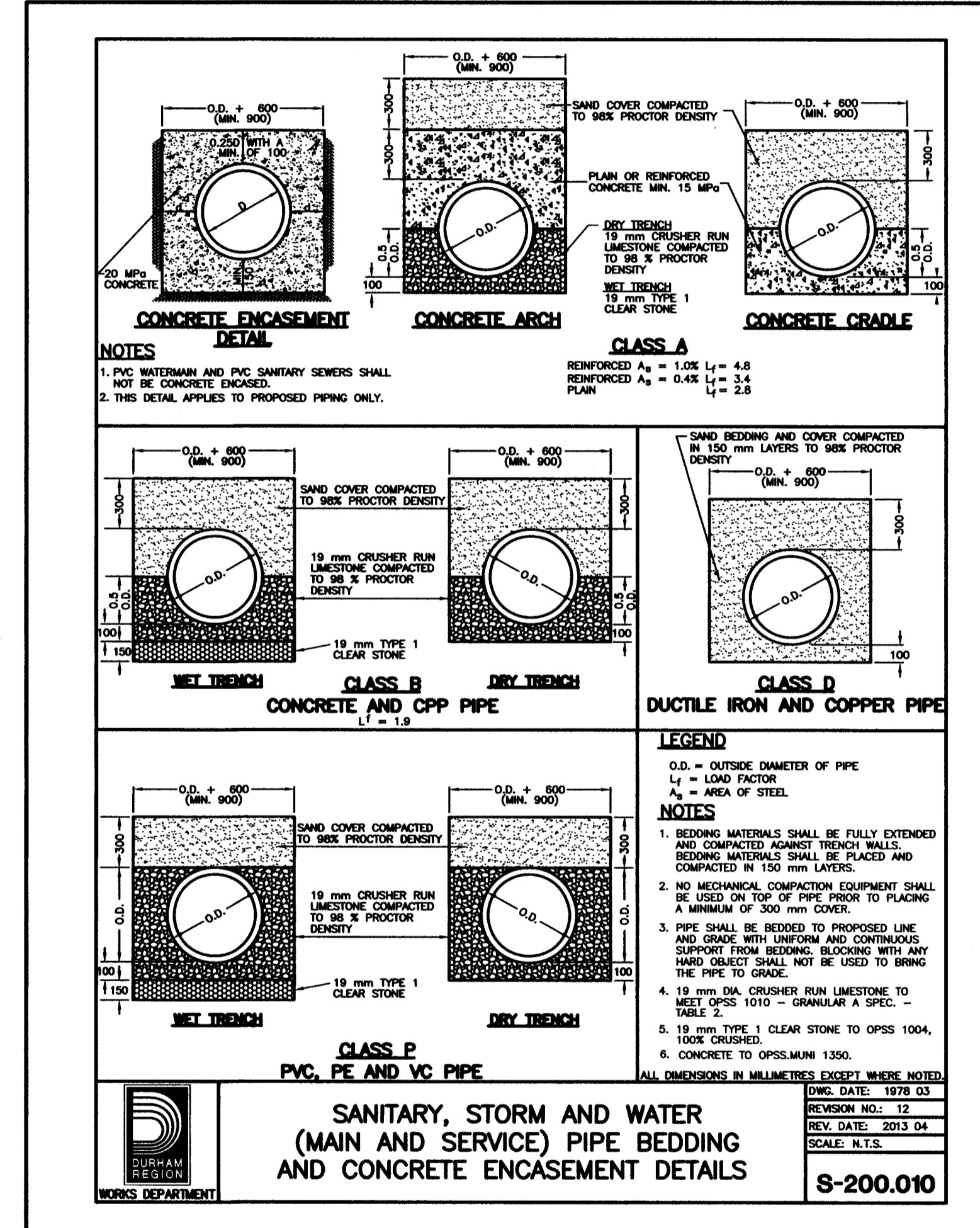
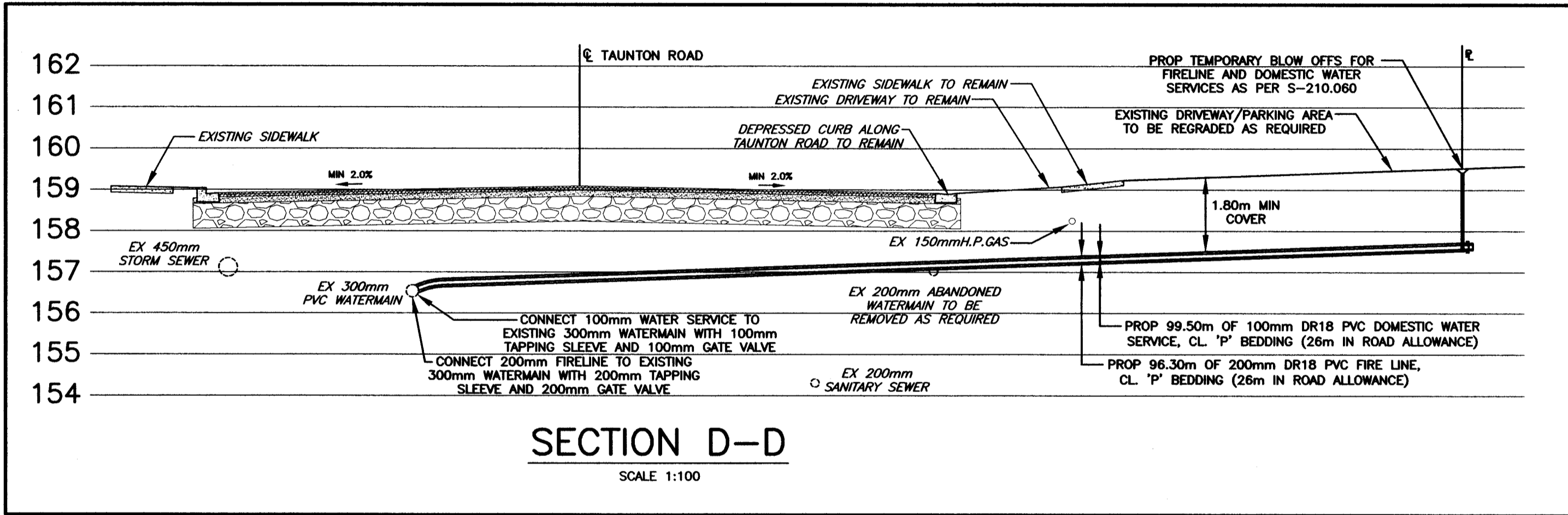
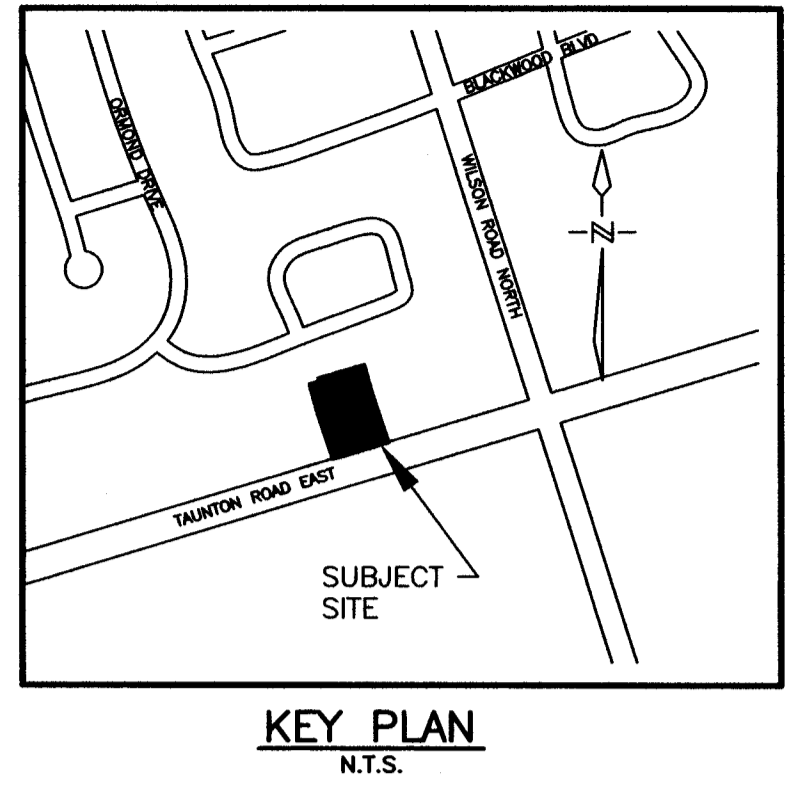
D.G. Biddle & Associates Limited
 consulting engineers and planners
 96 KING STREET EAST • OSHAWA, ON L1H 1B6
 PHONE (905) 576-8500 • FAX (905) 576-9730
 info@dgbiddle.com

| | | |
|--|------------------------------------------------------------------------------------------------------|----------------------------------------|
| | SCALE: 1:200 DRAWN BY: G.P.W./D.P.T. DESIGN BY: D.P.T. CHECKED BY: J.A.I. DATE: OCT 2015 | PROJECT NO. 115147 DRAWING NO. ES-1 |
|--|------------------------------------------------------------------------------------------------------|----------------------------------------|

R:\JOB FILES\15000\15147 RODGERS TAUNTON ROAD EAST\15147-03-SITE PLAN-MAY 4 2016.DWG



PART OF LOT 7, CONCESSION 4 & ALL OF BLOCK 41
GEOGRAPHIC TOWNSHIP OF EAST WHITBY
REGISTERED PLAN 40M-2334
CITY OF OSHAWA
REGIONAL MUNICIPALITY OF DURHAM
OSHAWA BENCHMARK No. 270
PLAQUE TO TOP FOUNDATION OF PETRO-CAN BUILDING (#523 TAUNTON ROAD EAST) 0.80m SOUTH OF NORTH EAST CORNER OF TAUNTON ROAD EAST AND WILSON ROAD NORTH
ELEVATION - 158.014m



| NO. | DATE | REVISION | BY |
|-----|------------|----------------------------------|----|
| 3 | 08/31/2016 | RE-ISSUED FOR SITE PLAN APPROVAL | |
| 2 | 06/07/2016 | RE-ISSUED FOR SITE PLAN APPROVAL | |
| 1 | 01/08/2016 | ISSUED FOR SITE PLAN APPROVAL | |

REVISIONS
490 TAUNTON ROAD EAST, OSHAWA (SPA-2016-03)
SITE SERVICING SECTIONS AND DETAILS

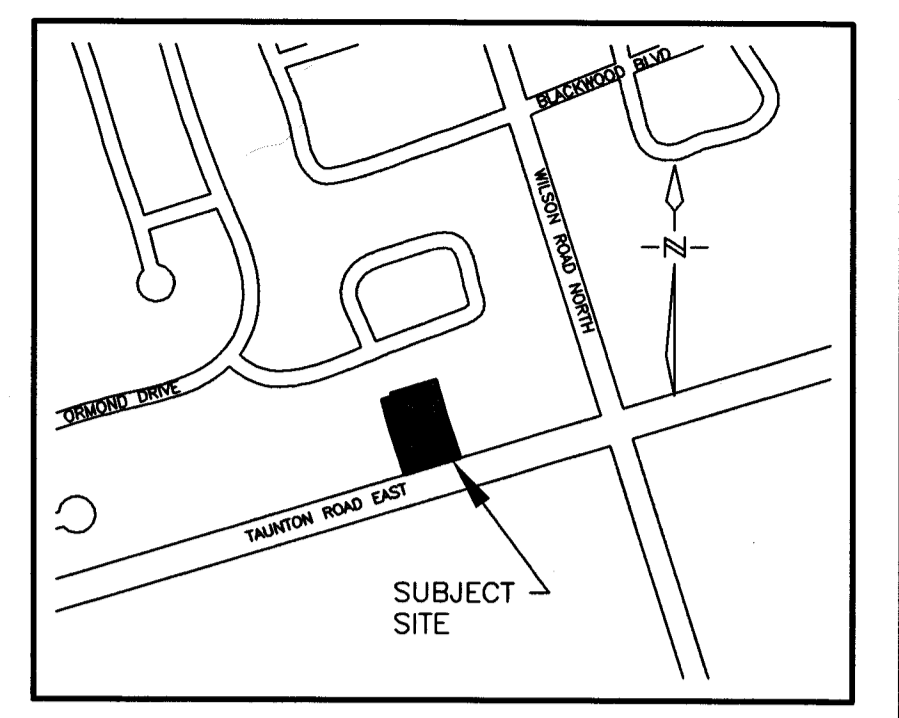
D.G. Biddle & Associates Limited
consulting engineers and planners
96 KING STREET EAST • OSHAWA, ON L1H 1B8
PHONE (905) 576-8500 • FAX (905) 576-9730
info@dgbiddle.com

Approved
Approval of the Regional Works Dept. for the purposes described in the applicable Regional Subdivision or Servicing Agreement. The Region is relying on the technical skill and ability of the P.Eng. sealing and signing this drawing.
BY: _____
DATE: _____

| | | |
|--|--------------------|--------------------|
| | SCALE: 1:200 | PROJECT NO. 115147 |
| | DRAWN BY: D.P.T. | DRAWING NO. SS-2 |
| | DESIGN BY: D.P.T. | |
| | CHECKED BY: J.A.I. | |
| | DATE: OCT 2015 | |

PART OF LOT 7, CONCESSION 4
 & ALL OF BLOCK 41
 GEOGRAPHIC TOWNSHIP OF EAST WHITBY
 REGISTERED PLAN 40M-2334
 CITY OF OSHAWA
 REGIONAL MUNICIPALITY OF DURHAM

OSHAWA BENCHMARK No. 270
 PLAQUE TO TOP FOUNDATION OF PETRO-CAN BUILDING
 (#523 TAUNTON ROAD EAST) 0.80m SOUTH OF NORTH
 EAST CORNER OF TAUNTON ROAD EAST AND WILSON
 ROAD NORTH
 ELEVATION = 158.014m



GENERAL NOTES

- 1) A ROAD OCCUPANCY PERMIT WILL BE REQUIRED FOR ANY WORKS WITHIN THE REGIONAL RIGHT OF WAY
- 2) ALL WORKS OR RESTORATION WITHIN THE REGIONAL RIGHT OF WAY SHALL BE COMPLETED AS PER REGION OF DURHAM FIELD STAFF DIRECTION
- 3) ALL SERVICING TO TAUNTON ROAD ALLOWANCE SHALL BE COMPLETED BY OWNER BY AN EXECUTED REGION SERVICING AGREEMENT
- 4) THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND SERVICES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION CONCERNED UTILITIES TO BE GIVEN ADVANCED NOTICE FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITIES SHOWN ON THE DRAWINGS
- 5) QUANTITIES, DIMENSIONS AND ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR COMMENCING CONSTRUCTION
- 6) ALL SANITARY SEWER AND APPURTENANCES SHALL COMPLY WITH THE REGION OF DURHAM STANDARDS AND THE ONTARIO PLUMBING CODE
 - 150mm SANITARY SEWER SERVICE PIPE SHALL BE CL DR28 PVC PIPE, CL 'P' BEDDING
 - SANITARY MANHOLE AS PER OPSD 701.010 C/W LOCKABLE COVER AS PER OPSD 401.080
 - ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH REGION OF DURHAM STANDARDS
- 7) ALL WATER MAINS AND APPURTENANCES SHALL COMPLY WITH THE REGION OF DURHAM STANDARDS AND THE ONTARIO PLUMBING CODE
 - 200mm FIRELINE AND 100mm DOMESTIC WATER CONNECTIONS SHALL BE DR18 PVC PIPE, CLASS 'B' BEDDING AS PER REGION OF DURHAM STANDARDS
 - ALL WATER MAINS SHALL BE CONSTRUCTED A MINIMUM OF 1.80m BELOW FINISHED GRADE
 - ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH REGION OF DURHAM STANDARDS
- 8) ALL STORM SEWERS AND APPURTENANCES SHALL COMPLY WITH THE REGION OF DURHAM AND THE ONTARIO PLUMBING CODE
 - STORM SEWER PIPE 450mm AND SMALLER SHALL BE DR35 PVC PIPE, CL 'P' BEDDING
 - STORM SEWER CATCHBASIN MANHOLES SHALL BE AS PER OPSD 701.010
 - MANHOLE GRATES SHALL BE AS PER OPSD 401.010
 - OIL/GRIT SEPARATOR SHALL BE STORMCEPTOR MODEL STC750 OR APPROVED EQUIVALENT
 - STORM SEWER CATCHBASINS AS PER OPSD 705.010
 - CATCHBASIN GRATES SHALL BE AS PER OPSD 400.020
 - ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH REGION OF DURHAM STANDARDS
 - 150mm ROOF WATER LEADERS TO BE DR 28 PVC, CL 'P' BEDDING
 - SOUTH INVERT OF CBMH 6 TO BE FITTED WITH A 300mm PVC PLUG COMPLETE WITH A 155mm ORIFICE & ELEVATION 157.45m
- 9) GENERALLY, A MINIMUM OF 0.25m SHALL BE PROVIDED BETWEEN THE OUTSIDE OF PIPE BARRELS AT THE POINT OF CROSSING FOR STORM AND SANITARY SEWERS. A MINIMUM OF 0.50m SHALL BE PROVIDED BETWEEN THE OUTSIDE OF PIPE BARRELS AT THE POINT OF CROSSING FOR ALL SEWERS CROSSING WATER MAINS
- 10) RESTORATION NOTES:
 - CURB AND GUTTER WITHIN TAUNTON ROAD EAST SHALL BE RESTORED AS PER OPSD 600.011 OR TO MATCH EXISTING
 - SIDEWALK SHALL BE INSTALLED AS PER OS-301

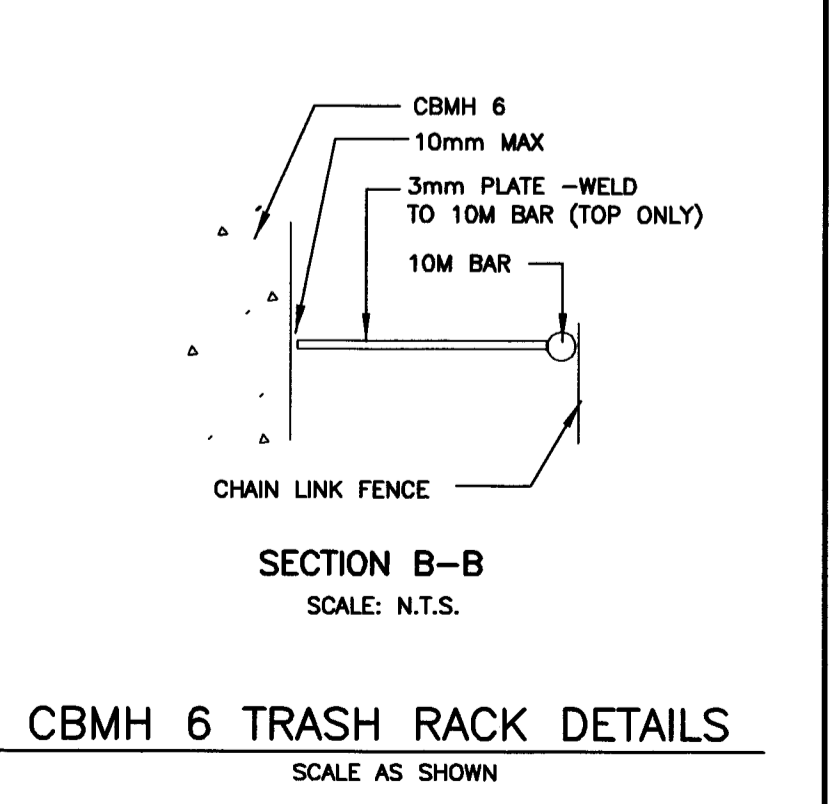
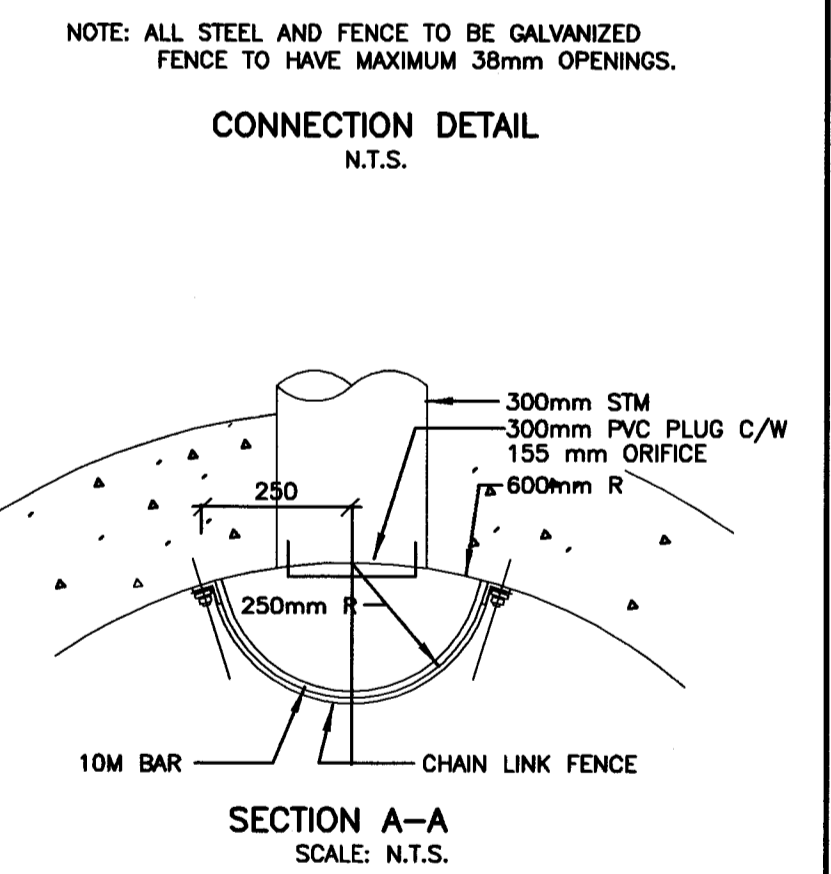
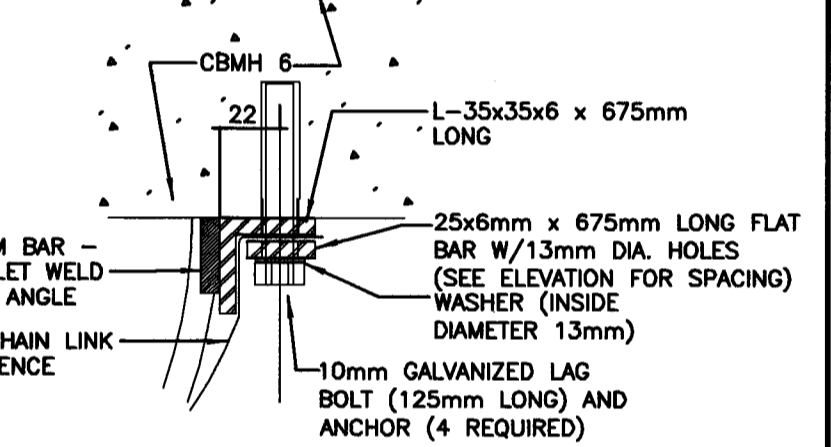
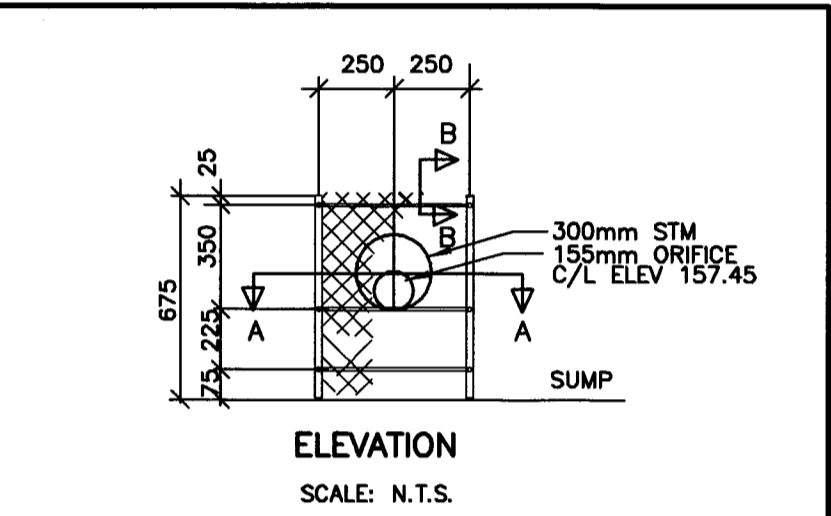
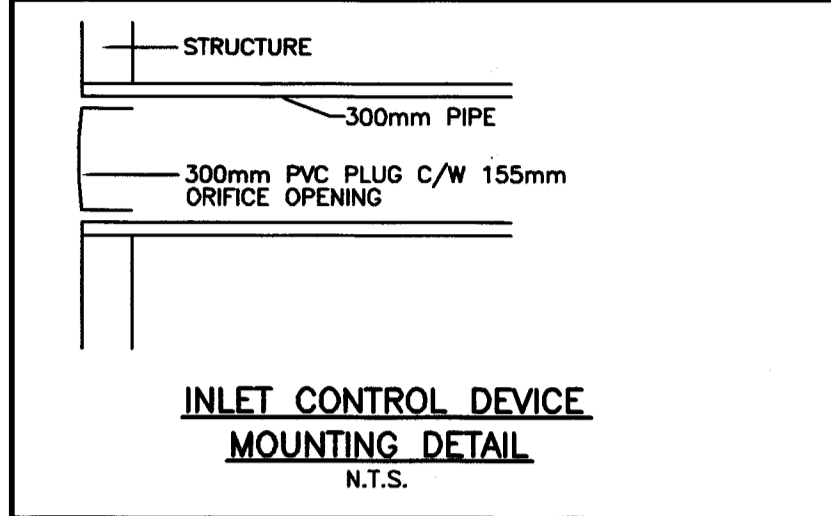
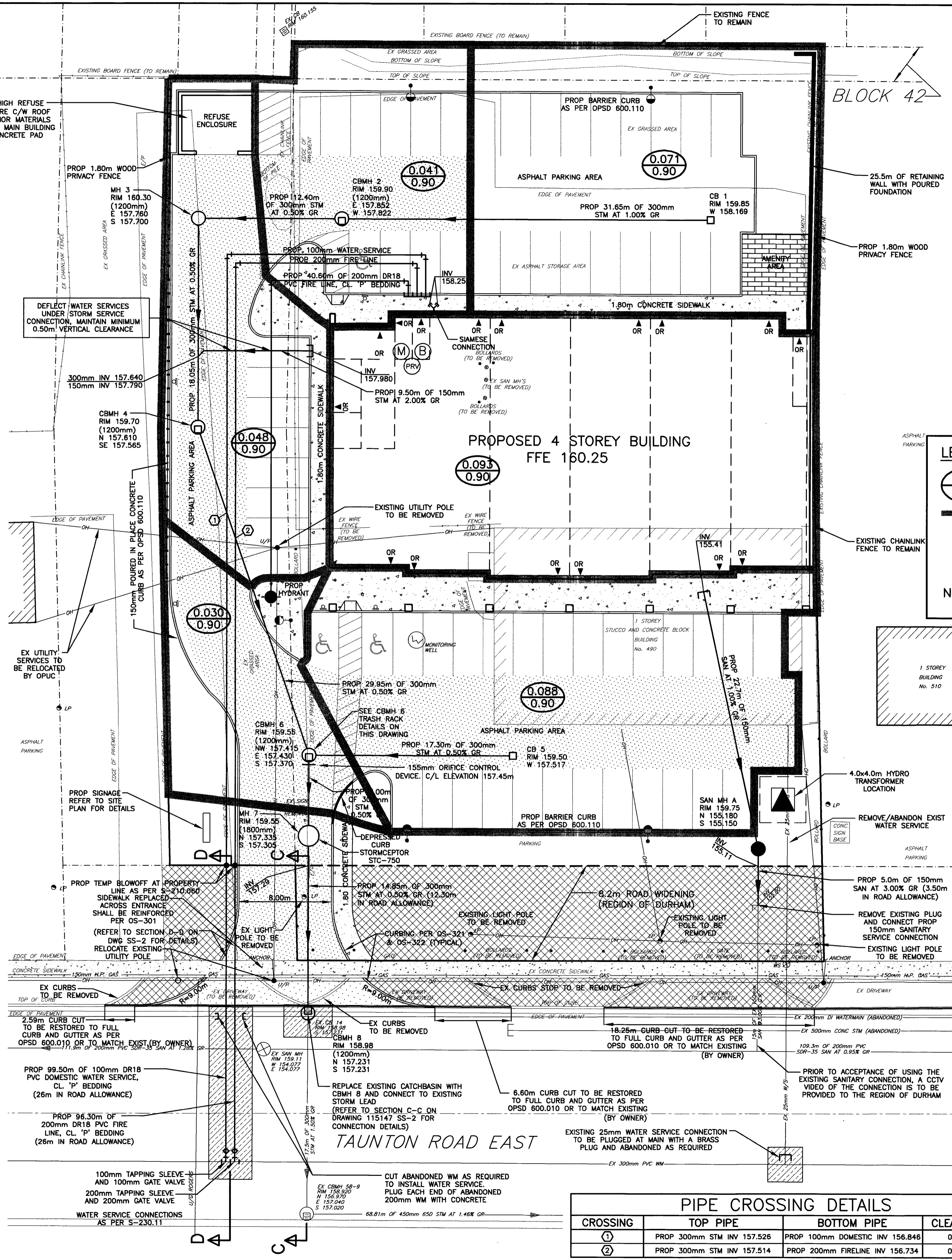
LEGEND

0.32 AREA IN HECTARES
 0.90 RUNOFF CO-EFFICIENT

— DRAINAGE BOUNDARY

(M) WATER METER
 (B) BACKFLOW PREVENTER
 (PRV) PRESSURE REDUCING VALVE

NOTE: THIS PLAN IS FOR STORM DRAINAGE AREAS ONLY



PIPE CROSSING DETAILS

| CROSSING | TOP PIPE | BOTTOM PIPE | CLEARANCE |
|----------|----------------------------|---------------------------------|-----------|
| ① | PROP 300mm STM INV 157.526 | PROP 100mm DOMESTIC INV 156.846 | 0.50m |
| ② | PROP 300mm STM INV 157.514 | PROP 200mm FIRELINE INV 156.734 | 0.50m |

Approved
 Approval of the Regional Works Dept. for the purposes described in the applicable Regional Subdivision or Servicing Agreement. The Region is relying on the technical skill and ability of the P.Eng. sealing and signing this drawing.

BY: _____
 DATE: _____

- 11) TAUNTON ROAD EAST TO BE RESTORED WITH THE FOLLOWING UNLESS OTHERWISE APPROVED BY THE ENGINEER:
 - STAGE 1 WORKS:
 - 600mm GRANULAR 'B' (OR TO MATCH EXISTING)
 - 150mm GRANULAR 'A' (OR TO MATCH EXISTING)
 - 100mm HLB BINDER ASPHALT (2 LIFTS OF 50mm) (OR TO MATCH EXISTING)
 - STAGE 2 WORKS:
 - 40mm OF BINDER ASPHALT TO BE GROUND AND REMOVED AND REPLACED WITH
 - 40mm OF HLB SURFACE ASPHALT (OR TO MATCH EXISTING)
- 12) ALL ROOF LEADERS TO BE CONNECTED TO THE PRIVATE STORM SEWER SYSTEM
- 13) ONSIDE ASPHALT SHALL CONSIST OF THE FOLLOWING UNLESS OTHERWISE APPROVED BY THE ENGINEER: HEAVY DUTY (FIRE ROUTE/DRIVEWAYS):
 - 300mm GRANULAR 'B' OR 50mm CRUSHER RUN Limestone
 - 150mm GRANULAR 'A' OR 20mm CRUSHER RUN Limestone
 - 75mm HLB BINDER ASPHALT
 - 40mm HLB SURFACE ASPHALT
 LIGHT DUTY (CAR PARKING AREAS):
 - 200mm GRANULAR 'B' OR 50mm CRUSHER RUN Limestone
 - 150mm GRANULAR 'A' OR 20mm CRUSHER RUN Limestone
 - 50mm HLB SURFACE ASPHALT
- 14) FOUNDATION DRAIN CONNECTION DETAIL SHOWN ON DRAWING SS-2 (SITE SERVICING SECTIONS AND DETAILS)

| NO. | DATE | REVISION | BY |
|-----|------------|----------------------------------|----|
| 3 | 08/31/2016 | RE-ISSUED FOR SITE PLAN APPROVAL | |
| 2 | 06/07/2016 | RE-ISSUED FOR SITE PLAN APPROVAL | |
| 1 | 01/08/2016 | ISSUED FOR SITE PLAN APPROVAL | |

490 TAUNTON ROAD EAST, OSHAWA (SPA-2016-03)

SITE SERVICING AND STORM DRAINAGE PLAN

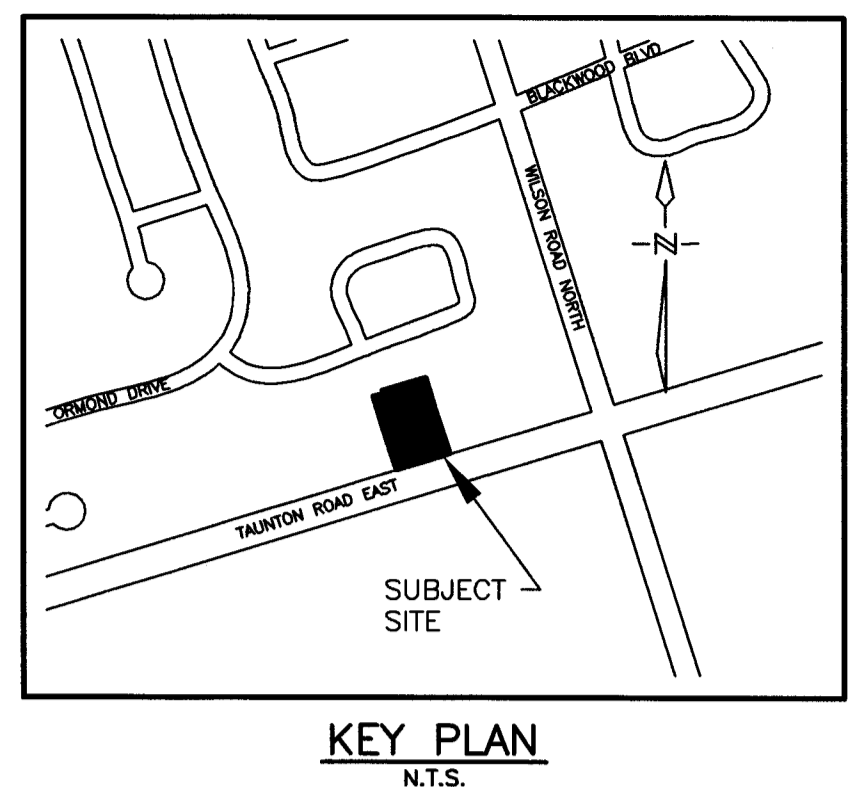
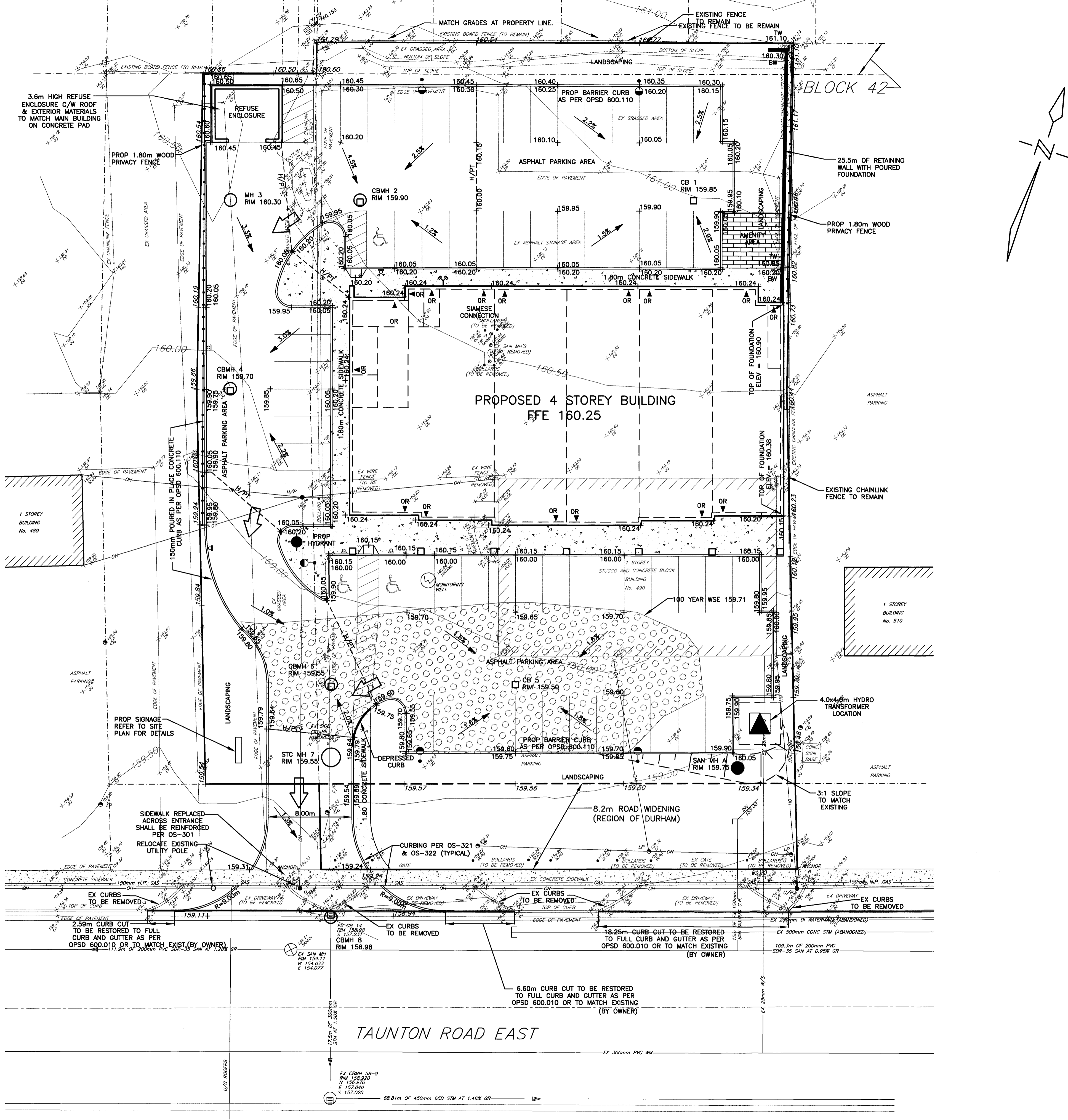
D.G. Biddle & Associates Limited
 consulting engineers and planners
 96 KING STREET EAST - OSHAWA, ON L1H 1B6
 PHONE (905) 576-8500 • FAX (905) 576-9730
 info@dgbiddle.com

PROJECT NO. 115147
 DRAWING NO. SS-1

SCALE: 1:200
 DRAWN BY: G.P.W./D.P.T.
 DESIGN BY: D.P.T.
 CHECKED BY: J.A.I.
 DATE: OCT 2015

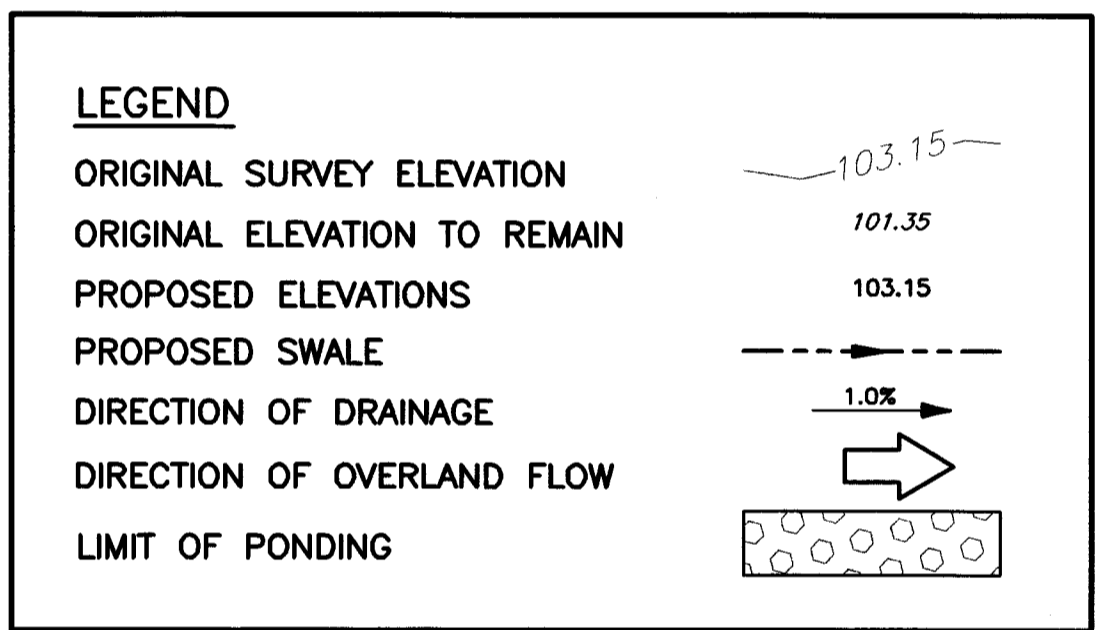


R:\JOB FILES\15000\15147\HODGERS TAUNTON ROAD EAST\15147-03-SITE PLAN-MAY 2 2016.DWG
 30/09/2016



PART OF LOT 7, CONCESSION 4 & ALL OF BLOCK 41
 GEOGRAPHIC TOWNSHIP OF EAST WHITBY
 REGISTERED PLAN 40M-2334
CITY OF OSHAWA
 REGIONAL MUNICIPALITY OF DURHAM
OSHAWA BENCHMARK No. 270
 PLAQUE TO TOP FOUNDATION OF PETRO-CAN BUILDING (#523 TAUNTON ROAD EAST) 0.80m SOUTH OF NORTH EAST CORNER OF TAUNTON ROAD EAST AND WILSON ROAD NORTH
 ELEVATION - 158.014m

- GENERAL NOTES**
- 1) ALL SLOPES TO BE 3:1 MAXIMUM.
 - 2) ALL SWALES TO BE 2.0% MINIMUM GRADE UNLESS OTHERWISE NOTED.
 - 3) ALL SLOPES, SWALES AND OPEN AREAS TO BE SODDED ON MINIMUM OF 150mm TOPSOIL.
 - 4) PROPOSED GRADING TO MATCH EXISTING GRADES AT PROPERTY LINE.
 - 5) BUILDER TO ENSURE MINIMUM 1.20m COVER ON ALL FOOTINGS.
 - 6) THE LANDSCAPING PLAN (L-1) HAS BEEN REVIEWED AND THE PROPOSED LANDSCAPE WORK CONFORMS WITH THE SITE GRADING DESIGN.



| NO. | DATE | REVISION | BY |
|-----|------------|----------------------------------|----|
| 3 | 08/31/2016 | RE-ISSUED FOR SITE PLAN APPROVAL | |
| 2 | 06/07/2016 | RE-ISSUED FOR SITE PLAN APPROVAL | |
| 1 | 01/08/2016 | ISSUED FOR SITE PLAN APPROVAL | |

REVISIONS
490 TAUNTON ROAD EAST, OSHAWA (SPA-2016-03)

SITE GRADING PLAN

D.G. Biddle & Associates Limited
 consulting engineers and planners
 96 KING STREET EAST • OSHAWA, ON L1H 1B6
 PHONE (905) 576-8500 • FAX (905) 576-9730
 info@dgbiddle.com



| | |
|-------------------------|--------------------|
| SCALE: 1:200 | PROJECT NO. 115147 |
| DRAWN BY: G.P.W./D.P.T. | DRAWING NO. SG-1 |
| DESIGN BY: D.P.T. | |
| CHECKED BY: J.A.I. | |
| DATE: OCT 2015 | |