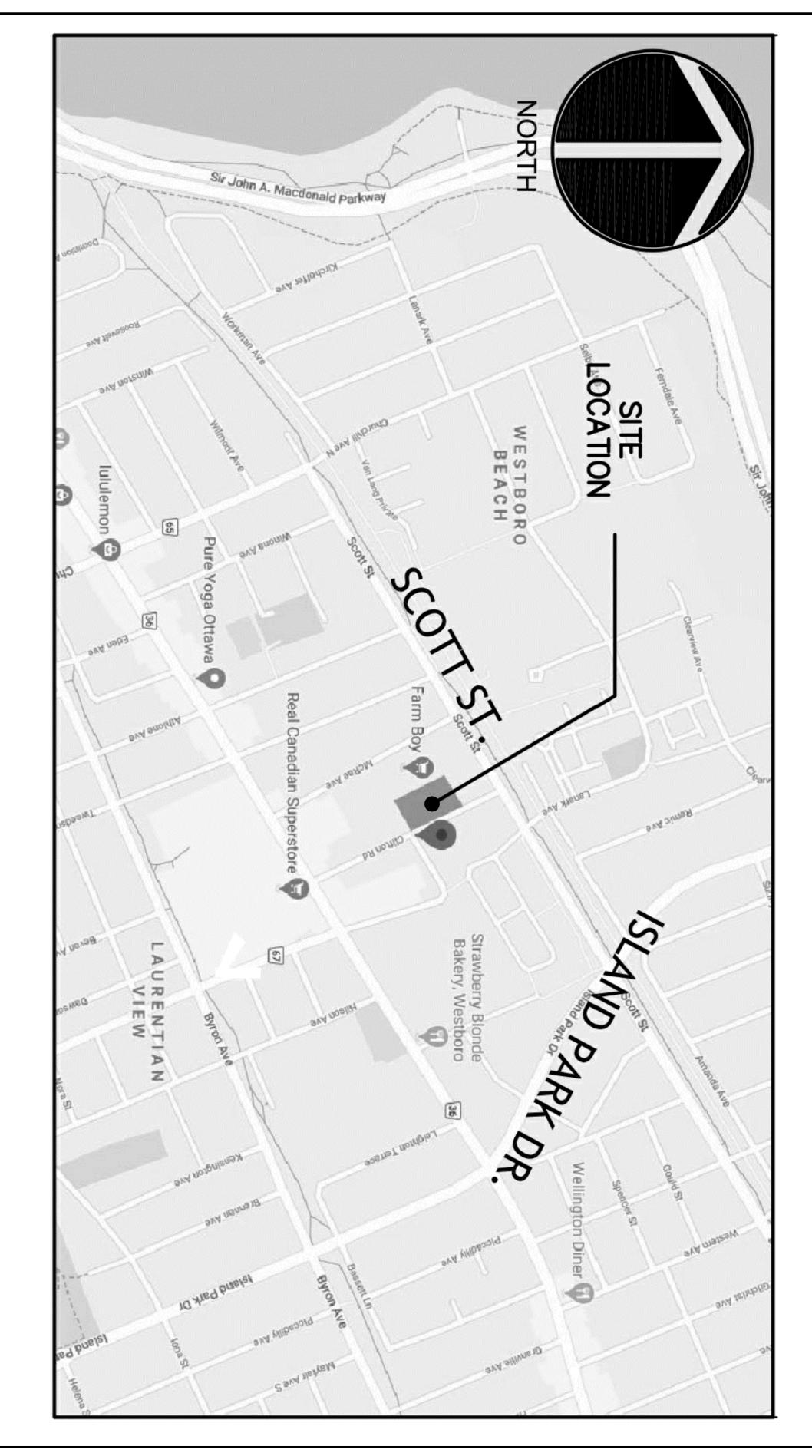
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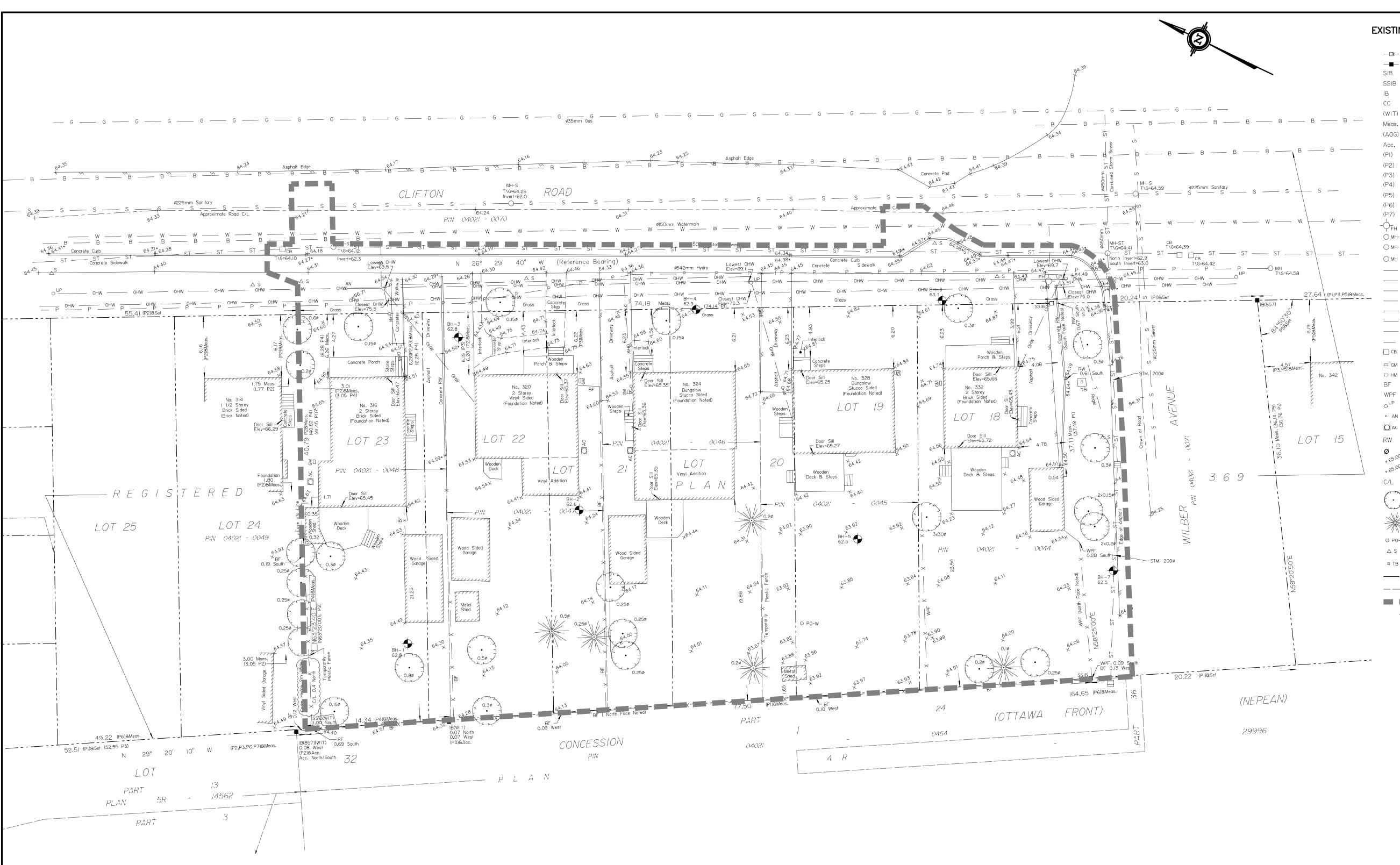
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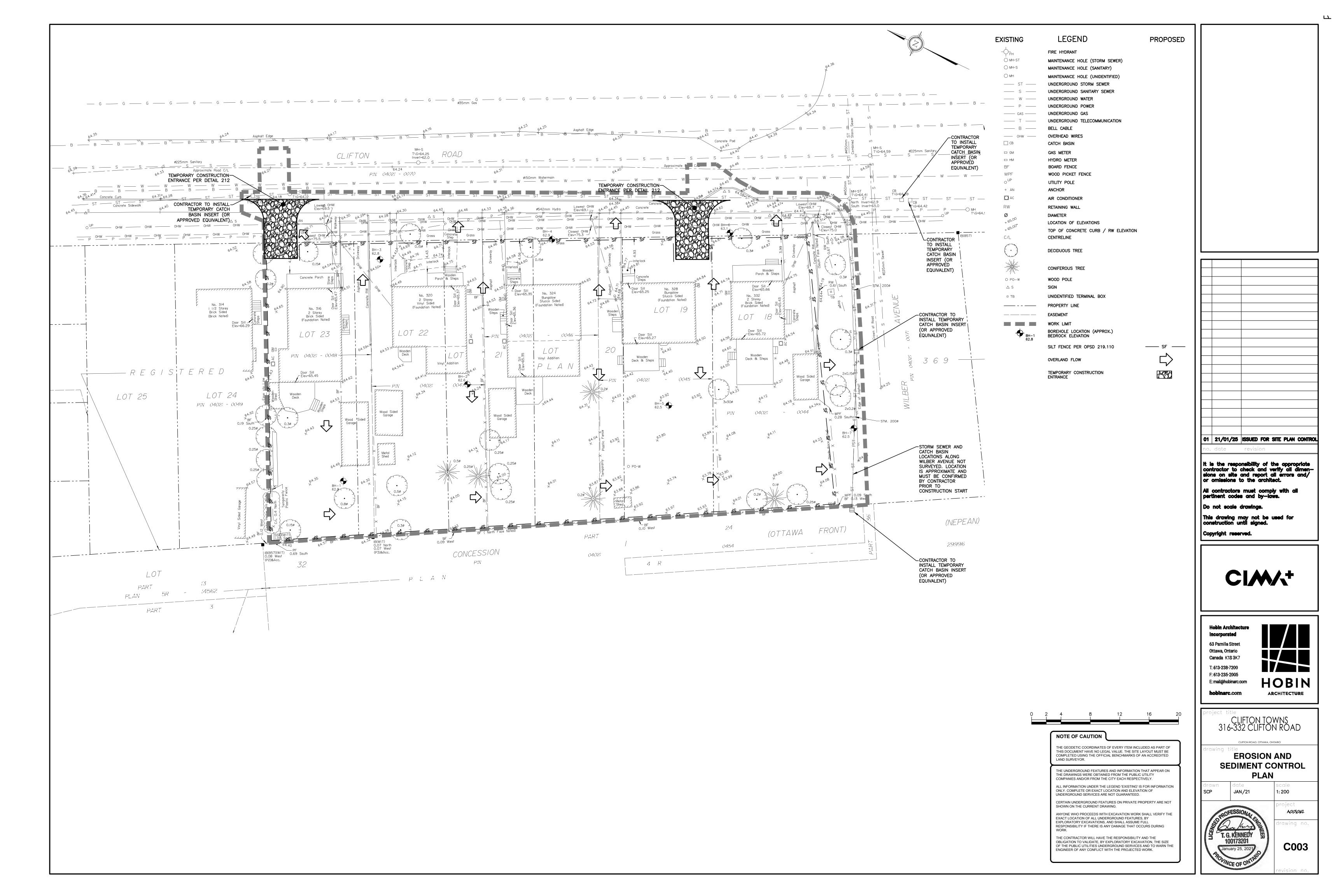
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GAS METER
HYDRO METER
BOARD FENCE WOOD PICKET FENCE
UTILITY POLE
ANCHOR
RETAINING WALL DIAMETER
LOCATION OF ELEVATIONS
TOP OF CONCRETE CURB / RW ELEVATION
CENTRELINE
DECIDUOUS TREE
CONIFEROUS TREE
WOOD POLE
SIGN
UNIDENTIFIED TERMINAL BOX
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UNIDENTIFIED TERMINAL BOX
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_	NOTE OF CAUTION
	THE GEODETIC COORDINATES OF EVERY ITEM INCLUDED AS PART OF THIS DOCUMENT HAVE NO LEGAL VALUE. THE SITE LAYOUT MUST BE COMPLETED USING THE OFFICIAL BENCHMARKS OF AN ACCREDITED LAND SURVEYOR.
	THE UNDERGROUND FEATURES AND INFORMATION THAT APPEAR ON THE DRAWINGS WERE OBTAINED FROM THE PUBLIC UTILITY COMPANIES AND/OR FROM THE CITY EACH RESPECTIVELY.
	ALL INFORMATION UNDER THE LEGEND 'EXISTING' IS FOR INFORMATION ONLY. COMPLETE OR EXACT LOCATION AND ELEVATION OF UNDERGROUND SERVICES ARE NOT GUARANTEED.
	CERTAIN UNDERGROUND FEATURES ON PRIVATE PROPERTY ARE NOT SHOWN ON THE CURRENT DRAWING.
	ANYONE WHO PROCEEDS WITH EXCAVATION WORK SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND FEATURES, BY EXPLORATORY EXCAVATIONS, AND SHALL ASSUME FULL RESPONSIBILITY IF THERE IS ANY DAMAGE THAT OCCURS DURING WORK.
	THE CONTRACTOR WILL HAVE THE RESPONSIBILITY AND THE OBLIGATION TO VALIDATE, BY EXPLORATORY EXCAVATION, THE SIZE OF THE PUBLIC UTILITIES UNDERGROUND SERVICES AND TO WARN THE ENGINEER OF ANY CONFLICT WITH THE PROJECTED WORK.

	21/01/25 date	ISSUED F	DR SITE PLAN CONTROL
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1. SEDIMENT AND EROSION CONTROL

- 1.1. Unless otherwise indicated, all materials and construction methods to be in accordance with the requirements of the latest edition of the Ontario Provincial Standard Specifications and Drawinas (OPSS and OPSD), the Ontario Ministry of Environment, Conservation and Parks (MECP), applicable Conservation authorities, the municipal standard specifications and drawings, and all other governing authorities as they
- 1.2. Wherever standards, laws and/or regulations are mentioned they refer to their current versions, modifications included
- 1.3. Specifically, sediment and erosion control measures to be constructed as per OPSS.MUNI 805 / City of Ottawa Special Provision F-1004 and F-1005.
- 1.4. The Contractor must implement best management practices and provide adequate sediment and erosion control measures during construction:
 - 1. Prevent soil erosion which can result from stormwater
- runoff or wind erosion during construction; 2. Prevent sediment deposits in the storm sewer and/or
- collecting streams and; 3. Prevent air pollution from dust and particulate matter.
- 1.5. Provisions must be made for sediment and erosion control measures prior to stripping the site of vegetation and other deleterious materials. Measures such as phase stripping, vegetation buffer zones silt fences straw bales sedimen traps/basins, rock checks, etc. must be constructed and maintained in order to control sediment, as required by the provincial and municipal governing authorities.
- 1.6. The Contractor must set up the measures shown on the plan, inspect them frequently and clean and repair or replace the deteriorated structures.
- 1.7. When the sediment and erosion control measures have to be removed in order to complete a portion of the work, these same measures must be reinstated
- 1.8. When storing soil on site in piles the Contractor must cover each pile with tarps, straw or a geotextile fabric to avoid fine particle transport by wind and/or streaming rain water.
- 1.9. During the construction period, sediment capture silt sacks or filter cloths must be installed and maintained between the frame and cover of all catchbasins and catchbasin/manholes to minimize sediments entering the storm sewer system. All landscaping areas must be completed prior to the removal of the silt sacks or filter cloths.
- 1.10. The light duty silt fence barrier must be installed as per OPSD 219.110.
- 1.11. At all times the Contractor must maintain the municipal access roads clean and free of sediments. When cleaning the access roads, the Contractor must take the necessary precautions to clear the surfaces covered with sediment prior to cleaning with water.
- 1.12. For dust control, Contractor to apply calcium chloride (Type - OPSS 2501 and CAN/CGSB-15-1) and water with equipment approved by the Owner's representative at rate in accordance to OPSS.MUNI 506 when directed by Owner's representative.
- 1.13. At the end of the construction period, the Contractor is responsible for removal of the temporary sediment and erosion control measures and reconditioning the affected areas.
- 1.14. This plan is a "Living Document" which may be revised in the event that the control measures are not sufficient.

stratiaraphy on site.

associated costs.

Documents

and reinspection. representative.

- Asphalt pavement:

accordinaly.

1. <u>GRADE CONTROL AND DRAINAGE – GENERAL</u>

1.1. The Contractor must conform to all laws, codes, ordinances and regulations adopted by federal, provincial or municipal government councils and government agencies, applying to work to be carried out.

1.2. Unless otherwise indicated, all materials and construction methods to be in accordance with the requirements of the latest edition of the Ontario Provincial Standard Specifications and Drawings (OPSS and OPSD), the Ontario Ministry o Environment, Conservation and Parks (MECP), applicable Conservation Authorities, the municipal standard specifications and drawings, and all other governing authorities as they

1.3. Wherever standards, laws and/or regulations are mentioned they refer to their current versions, modifications included.

- 1.4. The boreholes and test pits shown on the plan are for information purposes only. Their location on the plan is approximate. The Contractor must refer to the boreholes and test pit records to obtain information about observed
- 1.5. The Contractor is responsible for obtaining all permits required to complete all works and bear cost of same, including road cut permit and water permit and their
- 1.6. The Contractor is responsible for the coordination of his activities with others on site.
- 1.7. Independent Geotechnical Firm: 1.7.1. An independent geotechnical firm must be hired by the Contractor for the purpose of material testing, inspection and quality control services. Cost of such services will be borne by the Contractor.
- 1.7.2. Geotechnical firm to review asphalt and concrete mix designs as requested.
- 1.7.3. The Contractor must provide equipment required for executing inspection and testing by appointed geotechnical
- 1.7.4. The Contractor must provide labour and facilities to obtain and handle samples and materials on site. Provide sufficient space to store and cure test samples.
- 1.7.5. Employment of geotechnical firm does not relax responsibility to perform work in accordance with Contract 1.19.
- 1.7.6. If defects are revealed during inspection and/or testing, appointed geotechnical firm will request additional inspection and/or testing to ascertain full degree of defect. Contractor to correct defect and irregularities at no cost to Owner. Contractor to pay costs for retesting
- 1.8. Submit copies of inspection and test reports to Owner's
- 1.9. The location of existing underground municipal services and public utilities as shown on the plans are approximate. The Contractor must determine the exact location, size, materic and elevation of all existing utilities (on—site and off—site) prior to any excavation work. Damage to any existing services and/or existing utilities during construction, whether or not shown on the drawings must be repaired by the Contractor at his own expense
- 1.10. Site preparation includes demolitions and removal of existing structures, clearing, grubbing, stripping of topsoil, demolition, removal of unsuitable materials, cut, fill and rough grading of all areas to receive finished surfaces.
- 1.11. All material must be compacted as per the requirements of the governing authority and be approved by the Consultant prior to delivery to the site.
- 1.12. Compaction must conform to the following requirements:
 - Exposed subgrade: 95% Standard Proctor maximum dry density (SPMDD)
 - Granular Base and Subbase:
 - 100 percent of the SPMDD.
 - 92 to 97 percent of the MRD (ASTM D2041)
 - <u>Subarade fill</u> (pavement and sidewalk areas):
 - 95 percent of the SPMDD
 - Structural fill (building footprint):
 - 100 percent of the SPMDD (ASTM d-698-12e2) under footings and to 98 percent of the SPMDD under the
- 1.13. If aroundwater is encountered during construction, dewatering of excavations could be required as per OPSS.MUNI 518. It is assumed that groundwater may be controlled by sump and pumping methods. It is possible that additional localized sumps may be required in areas where the seepage is more extensive.As required under the "Ontario Water Resources Ac (OWRA)", the Contractor must register all water taking activities on Ontario's "Environmental Activity and Sector Registry (EASR)" if water taking exceeds 50,000 I/day, and obtain a "Permit to Take Water (PTTW)" if water taking exceeds 400.000 I/day. Furthermore. Contractor must provide all necessary measures required to ensure dewatering operations does not affect in any way the integrity of th existing surrounding buildings and must plan his work
- 1.14. Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authority requirements and as follows:
- 1.14.1. Provide flocculation tanks, settling basins, or other treatment facilities to remove suspended solids or other materials to within the required parameters of the receiving body before discharging to storm sewers, watercourses or drainage areas.
- 1.14.2. Before discharging to storm sewers, watercourses or drainage areas, discharge water must be sampled and tested to ensure quality requirements in accordance with City of Ottawa Sewer Use By-Law No. 2003-514 and the MECP are adhered to. The Contractor is to perform all additional sampling and testing as required by City of Ottawa. All associated fees to be paid by the Contractor
- 1.14.3. Where water is not suitable for discharge into the adjacent storm sewers, watercourses or drainage areas it must be discharaed into the on-site sanitary sewer collection system, or disposed off-site at an approved disposal facility.
- 1.14.4. Sanitary Sewer Discharge:
 - .a When discharging to the sanitary sewer, the Contractor must obtain a Sanitary Sewer Agreement for Dewatering from the City of Ottawa in accordance with City of Ottawa Sewer Use By-Law No. 2003-514 and pay all associated fees.
 - A copy of the signed Sanitary Sewer Agreement for Dewatering must be provided to the Departmental Representative in advance of dewatering and discharge.

- The Contractor must ensure all requirements of the Discharge Agreement are adhered to and all prerequisite requirements of the Agreement are in place prior to commencing dewatering.
- Provide flow meter and record discharge rate in accordance with City of Ottawa reauirements. - Dewatering discharge rate to sanitary sewer not to exceed 2. <u>DEMOLITION AND REMOVALS</u>
- rate specified by City.
- .b For off-site disposal of dewatering effluent, Contractor to provide Departmental Representative proof of receipt that dewatering effluent was received at a licensed landfill facility and pay all associated disposal fees.
- Contractor must provide name of proposed licensed disposal facility to Departmental Representative in advance of any dewatering waste leaving the site. - Contractor is responsible for paying all costs associated with any water quality sampling and testing required.
- The Contractor must maintain benchmarks and landmark references as is. Otherwise these references will be repositioned by a certified land surveyor at the Contractor's 2.4. The Contractor must carry out necessary saw cuts even if expense.
- building site. The Contractor is responsible for providing adequate protection of the workers, other personnel and the general public, protection of materials, as well as maintaining agod condition the completed works and works to be completed. The Contractor must supply, install and maintain an appropriate safety fence along the work perimeter until the work is complete
- The Contractor must provide at any time:
- A sufficient number barriers, posters, guards and others to ensure safety: Necessary conveniences for the completion of the work such as heating, lighting, ventilation, etc.
- Temporary excavations in the overburden must be completed 1.17 as per the requirements of the Occupational Health and Safety Act (OHSA), O. Reg. 213/91, Part III - Excavations. Excavations at the site in the overburden may be undertaken as open-cut provided they are cut back at a slope of 1H to
- 1.18. The Contractor must pace deliveries and removals in order to minimize and control stockpiles.
- Stockpile material must be stored away from excavations at a distance at least equal to the depth of the excavation. Construction traffic should be limited near open excavation.
- 1.20 Cleanliness on the site: - The Contractor must clean roadways at his own cost as
 - directed by the Owner's representative; - All site roads and walkways to and from the construction zone must be kept clean at all times, from mud, dirt, granular material, debris, etc.;
 - The Contractor must leave the work area clean at the 3. GENERAL SUBGRADE PREPARATION end of each day:
 - and safe manner - All material, equipment and temporary structures which are no longer necessary for the execution of the
 - Contract must be removed from the site; - If required the Contractor must use screens, bulkheads, or any other recognized means in order to reduce noise, dust. interference. obstruction, etc., in conformity with the
- for installing and maintaining temporary traffic signage, including traffic signs, traffic markings and temporary traffic lights, and flagmen, as required by the Owner, the Consultant, the Municipality, and other governing authorities
- 1.22. The Contractor must control surface runoff from precipitation during construction.
- 1.23. Protection of existing trees and shrubs:

having jurisdiction.

- The Contractor must ensure that the existing trees and shrubs that are to remain on site will be protected the risk of damaging the trunks and branches and to avoid the compaction of the roots:
- As required, the Contractor must coordinate his work with shrub protection measures are in place prior to any other work and that these measures are maintained until the work is complete:
- The Contractor must protect the existing trees in accordance with OPSS.MUNI 801 and OPSD 220.010 / City of Ottawa Special Provision F-8011 and Standard Detail F7:
- The Contractor must define paths for heavy machinery before construction to avoid compaction of the roots of existing trees and shrubs;
- The Contractor cannot store material at the base of trees and shrubs: - The Contractor cannot backfill the trunk of existing trees and shrubs:
- Prune tree branches, shrubs and roots as needed to complete the work in accordance with Agriculture and Agri-Food Canada's "Pruning trees and shrubs" guidelines. - The Contractor must perform any tree cutting prior to period, which is April 15 to August 15).
- are implemented in order to reduce the risk of ground contamination from petroleum products:
- The list of persons and agencies to contact in the event of an emergency must be posted in plain sight on the work site for the duration of the construction period; - Machinery must be clean and kept clean to limit any
- grease or oil deposits inside the work area; - Frequent inspections must be performed to detect any oil, fuel, grease or other leaks. If a leak is detected, the
- necessary corrective action must be taken immediately; - An emergency kit for the recovery of petroleum products 4.4 must be kept on site at all times. The kit must include at least 30 m of absorbent booms, a box of absorbent pads and solid absorbent material (powder or granules). The kit must be stored near the location of work and machinery, and kept within easy reach at all times to
- ensure a rapid response; - In the event of a spill the Contractor must immediately report to the Spills Action Centre of the MECP at 1-800-268-6060. Hydrocarbons and contaminated soils
- will be recovered by a specialized firm. 1.25. The Contractor must ensure the following measures are
- implemented regarding the handling of concrete:
- Concrete should either be mixed away from the site or should be prepared on paved surfaces if only small quantities are required (i.e. minor repairs);
- Excess concrete must be disposed off-site at a location that meets all regulatory requirements; - The washing of concrete trucks and other equipment used
- for mixing concrete should not be carried out within 30 m of a watercourse or wetland and should take place

outside of the work site;

- All concrete trucks should collect their wash water and recycle it back into their trucks for disposal off-site at a 4.7. location meeting all regulatory requirements.
- 2.1. The Contractor must visit the premises in order to be fully aware of existing conditions on site, including all elements to be removed and demolished. No claim will be accepted due to a poor evaluation of the work to be completed.
- 2.2. The Contractor must protect and maintain in service the existing works which must remain in place. If they are damaged, the Contractor must immediately make the replacements and necessary repairs to the satisfaction of the Owner's representative and without additional expense to the Owner
- 2.3. The Contractor must perform the nessessary clearing and grubbing in accordance with OPSS.MUNI 201.
 - they are not shown on the drawings.
- 4.11. It is expected that some bedrock removal may be required. The Contractor is the only person in charge of safety on the 2.5. The Contractor must entirely remove the demolition wreckage Excavation of the bedrock would require the use of from the construction site in accordance with the hoe-ramming and/or line drilling and may be undertaken requirements of the MECP and in accordance with with near vertical sides. Contractor bidding on this project OPSS.MUNI 180 and OPSS.MUNI 510. must review the available data and decide on their own the most suitable method to excavate the bedrock, i.e. line - The Contractor must discard recyclable demolition drilling, blasting, etc. It should be noted that lab testing has materials in collaboration with a regional recycling revealed the bedrock underlaying the site to be strong to company. The Contractor must be able to provide proof very strong.
 - upon request, that the materials were properly recycled and that the chosen recycling company is recognized in
 - the recycling field. - All other demolition materials must be disposed off-site at authorized licensed landfills and in conformity with the applicable laws and regulations. The Contractor must be able to provide, upon request, copies of the disposal
 - 2.6. The Contractor is responsible for locating existing public utilities and (if required) submit a request for the interruption 4.13 Rock excavation must conform to OPSS 403.MUNI / City of of public utility services, such as gas, telephone, power, Ottawa Special Provision F-4031 and to all laws, codes ordinances and regulations adopted by federal, provincial and cable, sewers, watermain, etc. municipal government councils and government agencies. applying to the work to be carried out. 2.7. Sewer / watermain pipes to be abandoned must be cut, fill
 - with unshrinkable concrete conforming to OPSS.MUNI 1359, and capped.
 - 2.8. The Contractor must conduct all removals required to make the work complete.
 - 2.9. Unless otherwise specified, all materials, products and others 5. PAVEMENT STRUCTURES. CURBS. AND SIDEWALKS comina from the demolition belona to the Contractor
 - 2.10. Surfaces and works located outside of the construction work limit must be reinstated as they were before beginning of
- Materials and equipment must be laid out in an organized 3.1. Earth removal must be inspected by an experienced Geotechnical Engineer to ensure that all unsuitable materials are removed prior to the placement of fill, including concrete 5.4. Road cut reinstatement as per City of Ottawa Detail R10 and/or others, and to confirm the compaction degree and condition of the founding soils. All unsuitable materials must Transition between existing and proposed pavement must be be hauled off site and disposed as per provincial and constructed as per Detail #206. municipal regulations.
 - personnel before proceeding with placement of fill
- Paving must not be carried out if the roadbed is frozen 5.6.1. During the construction period the Contractor is responsible 3.3. As part of the subgrade preparation, the proposed parking area and access and local roadways should be stripped o topsoil and other obviously unsuitable material such as organic materials. 5.6.2. The granular grade must be free of standing water at
 - 3.4 Any loose, soft, or spongy subgrade areas detected should be sub excavated and properly replaced with suitable approved backfill compacted to 98% SPMDD (ASTM D698-12e2)e.
 - 3.5. The subgrade should be properly shaped, crowned, then proofrolled where possible in the full-time presence of a representative of this office.
- As per OPSS.310.07.06.02, the asphalt base coarse must 5.6.3. throughout the construction phase in order to minimize 3.6 All granular fill must be placed in maximum 300 mm thick not be placed unless the air temperature at the surface loose lifts and compacted using suitable methods as per the of the road is a minimum of 2°C and risina. reauirements.
- 5.6.4. As per OPSS.310.07.06.02, the asphalt surface coarse other professionals to ensure that the existing tree and 3.7. If contaminated material is encountered during the work, the must not be placed unless the air temperature at the Contractor must dispose off-site all materials from the surface of the road is a minimum of 7°C contaminated area in accordance with the requirements of the MECP and OPSS.MUNI 180. Prior to the start of work the Contractor must provide the name and location of landfill(s) Asphalt concrete material must conform to OPSS.MUNI 1150 for Hot Mix Asphalt and OPSS.MUNI 1151 for Superpave and where the contaminated materials will be disposed to the Consultant. The Contractor must obtain from the landfill Stone Mastic Asphalt Mixtures, Minimum Performance Gradeo Owner documents confirming that he has the right to accept (PG) 58-34 asphalt cement must be used for this project. the contaminated material. During the work, the contractor must provide the Consultant copies of all check—in receipts 58 Asphalt mix design must be reviewed and approved by a issued by the landfill Owner. Geotechnical Engineer before paving.
 - 3.8. The Contractor is responsible for providing a confirmation 5.9. Concrete curbs and gutters must conform to OPSS 353.MUNI. that the imported material used as subgrade fill is free of any contaminants such as Petroleum Hydrocarbons $(C_{10}-C_{50})$ 5.10. Concrete curbs to be constructed as per City of Ottawa PAH (Polycyclic Aromatic Hydrocarbons), MAH (Monocyclic Aromatic Hydrocarbons) and metals like mercury, silver, Detail SC1.1. arsenic, cadmium, cobalt, chromium, copper, tin, manganese, molybdenum, nickel, lead and zinc.
- April 15 (i.e. outside of the core Migratory Birds nesting 4. EXCAVATION AND BACKFILL BUILDING FOOTPRINT. ACCESS ROADS AND LANDSCAPE AREAS
- 1.24. The Contractor must ensure the following mitigation measures 4.1. The parking and access road subgrade preparation must be completed as per Section "3.0 General Subgrade Preparation". 5.13. Concrete sidewalks must conform to OPSS.MUNI 351
 - 4.2. The management of excess materials to comply with 5.14. Concrete sidewalks to be constructed as per City of Ottawa OPSS.MUNI 180 Detail SC2.
 - demolished, all building material, footings, foundation walls, construction material must be removed and disposed of site and the excavation backfilled with engineered fill prepared as described below:
 - Preparation of the engineered pad should comprise of the excavation of all fill, deleterious material, construction material, old footings, etc. down to the surface of the alacial till or bedrock. The excavation may extend to deeper depths than indicated on the logs in the areas of the existing building footings and services which will be demolished Following approval of the subgrade, OPSS 1010 Granular Type II should be placed in 300 mm lifts and each lift compacted to 100 percent of the Standard Proctor Maximum Dry Density (SPMDD). The engineered pad must extend to a minimum of 0.6 m from the edge of the footing then slope down at 1H to 1V to the bottom of the pad. In-place density testing must be undertaken on each lift to ensure that the specified degree of compaction has been achieved.
 - 4.5 As part of the subgrade preparation, the proposed parking area and access and local roadways should be stripped a topsoil and other obviously unsuitable material such as organic materials.

pavement must consist of OPSS 1010 Select Subgrade

Material (SSM), or on-site approved material free of organics

and with a natural moisture content within 2 percent of the

4.6. Subgrade fill used for grading beneath asphalt or concrete

optimum moisture content

- The on-site fill may be used for grading purposes in the landscaped area provided it is free of organics and foreign
- 4.8. Structural fill used for grading beneath the footings of buildings, signs and light standards must consist of OPSS 1010 Granular B Type II
- Backfilling against exterior basement walls OPSS 1010 Granular B Type I or II, placed in 300 mm thick lifts and compacted to 95 percent of the SPMDD
- 4.10. The Contractor is responsible for constructing all temporary access roads, as required to complete the work. The Contractor must also maintain all temporary access roads i acod and tidy condition at all times to the satisfaction of the Owner and/or Consultant. All temporary access roads must consist of compacted OPSS Select Subgrade Material to allow heavy equipment traffic. If the building is constructed during the winter period, the Contractor is responsible for snow removal and spreading of abrasive throughout construction work by the building Contractor and his sub-contractors.
- 4.12 Vibrations should be monitored during construction to prevent damage to adjacent structures and services. A precondition survey of all the structures and services situated within the proximity of the site will be required prior to the commencement of construction and during the excavation of the bedrock. Care must be undertaken to ensure that the footings of the neighbouring properties are not undermined or damaged during construction
- 4.14. Rock excavation for the buildings must be 2.0 m wider than the building footprint and to a depth of 2.1 m from surrounding finished grade. The Contractor must confirm rock excavation depths with Consultant prior to starting the work.
- 5.1. Construction of granular foundation must conform to OPSS.MUNI 314 / City of Ottawa Special Provisions.
- 5.2. Granular materials used on site must conform to the requirements of OPSS.MUNI 1010.
- 5.3. Light duty and heavy duty asphalt pavements to be constructed as per Details #201, #202, and #205.
- requirements of the provincial and municipal authorities 3.2. Subgrade must be approved by experienced geotechnical 5.6. Construction of asphalt must conform to OPSS.MUNI 310 and OPSS.MUNI 313.
 - the time of hot mix asphalt placement. The surface of a payement upon which hot mix asphalt is to be placed must be dry at the time of hot mix asphalt placement. Following the final compaction of a hot mix asphalt course, a 4 hour minimum time laps must be respected before placing a new new hot mix asphalt course Additionally, the temperature of the previous course must be 50 °C or less.

- 5.11. Elevation at top of concrete curbs to be 150 mm above the asphalt, unless otherwise indicated on the drawings.
- 5.12. Landscaping behind concrete curbs as per Detail 120, unless otherwise indicated on the drawings.
- 4.3. In the areas of the existing buildings which will be 5.15. Concrete slab for garbage enclosure to be constructed as per Detail 115.
 - 5.16. For all concrete placement during cold weather Contractor must place material in accordance to OPSS 904 MUNI
 - When ambient air temperature is 5°C or less, forms for concrete work must be left in place for the duration of the curing period.
 - 5.16.2. When the ambient air temperature is below 0°C at the time of placing, components must be cured with moisture vapour barrier.
 - Contractor must conform to OPSS.MUNI 904.07.11 for Control of Temperature when subjected to cold weather. MISCELLANEOUS
 - Pavement markinas to be "Organic Solvent Based" as per 6.1. OPSS 710 and OPSS 1712.
 - 6.2. Pavement marking symbols to comply with Detail 405 and

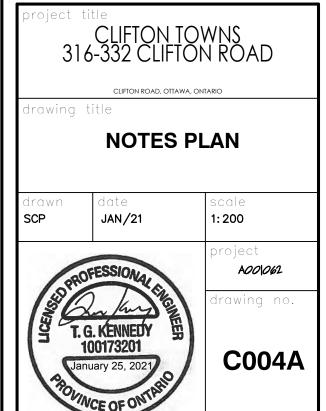
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1. MUNICIPAL SERVICES - GENERAL

- 1.1. Unless otherwise indicated, all materials and construction latest edition of the Ontario Provincial Standard Specifications and Drawings (OPSS and OPSD), the Ontario Ministry of Environment, Conservation and Parks (MECP), applicable Conservation Authorities, the municipal standard specifications and drawings, and all other governing authorities as they
- 1.2. Wherever standards, laws and/or regulations are mentioned they refer to their current versions, modifications included.
- 1.3. The boreholes and test pits shown on the plan are for information purposes only. Their location on the plan is approximate. The Contractor must refer to the boreholes and test pit records to obtain information about observed stratigraphy on site.
- 1.4. The location of existing underground municipal services and public utilities as shown on the plans are approximate. The 2.12. Hydrants must conform to the following specifications: Contractor must determine the exact location, size, material and elevation of all existing utilities (on-site and off-site) prior to any excavation work. Damage to any existing services and/or existing utilities during construction, whether or not shown on the drawings must be repaired by the Contractor at his own expense.
- 1.5. The Contractor is responsible for obtaining all permits required to complete all works and bear cost of same, including water permit and associated costs.
- 1.6. The Contractor is responsible for the coordination of his activities with others on-site.
- 1.7. Terminate and plug all service connections at 1.0 meter from edae of the building.
- 1.8. Spacing between lateral service connections must be as per City of Ottawa Detail S11.3.
- 1.9. The Contractor must complete compaction as per OPSS.MUNI 501 and note the following requirements for service trenchina:
 - MATERIALS COMPACTION Pipe bedding 98% SPMDD

Trench backfill and pipe cover 98% SPMDD

- 1.10. The Contractor is responsible for making or arranging all connections to the existing sewers as per municipal requirements. Prior to connection, the Contractor must provide, to the Engineer and the City for approval, all test results performed on the internal services. Test results must include C.C.T.V. inspection of sewers, infiltration/exfiltration tests for sewers and manholes, deformation tests of sewers, watermain hydrostatic leakage test, flushing and disinfecting operations, and bacteriological water analysis.
- 1.11. Advise the City Public Works at least 72 hours in advance before any connection to the City services. Coordinate with City as required.
- 1.12. The Contractor must determine the exact invert (geodetic elevation), diameter and construction material of the existing 2.16. When a watermain pipe crosses a sewer pipe, installation 1003.020 when the drop exceeds 1200 mm. conduits at the proposed connections. He must also carry must be as per City of Ottawa Details W-25 and/or W-25.2. out, if necessary, exploratory excavations in order to 3.22. Storm service connections to rigid main sewer pipe to be as per City of Ottawa Detail S11. Connections to flexible main determine the exact location and inverts of existing duck . Watermains must be thoroughly flushed and cleaned to banks. This information must immediately be provided to the Engineer prior to start undertaking any municipal services work and a 48 hour period must be allocated to the remove all dirt and debris prior to the disinfection process. sewer pipe to be as per City of Ottawa Detail S11.1. Engineer for design review. 2.18. All watermains must be hydrostatically and bacteriologically 3.23. Subdrains stubs are recommended to be installed at 3 m
- 1.13. The Contractor is responsible for all excavation, backfill and reinstatement of all areas disturbed during construction to existing conditions or better and all associated works to the satisfaction of the Engineer and municipal authorities.
 - 2.19. The Contractor must make arrangements with and give a minimum of 24 hours' notice to the City for the closing off drainage during construction activities (i.e. catchbasin inserts of necessary valves in the water distribution system. The City (or approved equivalent), straw bale check dams, any other will operate valves at the time of tie-ins, etc. at no expense OPSS.MUNI 310. sediment control measures required around all disturbed to the Contractor under normal conditions: however the areas). Dewatering must be sumped into sediment traps. Contractor will be responsible for all costs associated with and sod in accordance with OPSS.MUNI 802 and OPSS.MUNI emergency shutdowns if they occur outside of the normal working hours of the City forces (Monday to Friday, 7:00 3.25. When a minimum cover of 1.5 meters is not reached, frost 803 protection is required. a.m. to 5:00 p.m.)
 - Asphalt reinstatement must be in accordance with - Landscape areas to be reinstated with 150 mm of topsoil
- 1.14. Within landscaping areas, backfill for service trenches may consist of on-site fill material replaced and compacted in lifts provided it is free of organics and foreign debris.
- 1.15. A minimum of 150 mm of OPSS Granular A must be used for pipe bedding for sewer and water pipes and must extend to the spring line of the pipe. Cover material from the spring line to at least 300 mm above the pipe obvert must also consist of Granular A material. Bedding and cover material must be placed in maximum 200 mm lifts.
- 1.16. It is expected that services will be placed in both bedrock and overburden materials. Where the bedrock slopes at more 2.22. The Contractor must obtain a permit from the City before than 3H:1V a transition treatment is required. At these using an existing fire hydrant located within the City's locations the bedrock must be excavated and extra bedding material must be placed to provide a 3H:1V (or flatter) transition from the bedrock subgrade towards the soil 2.23. The Contractor must coordinate and pay the cost of subarade. connection, inspection and disinfection by municipal personnel.
- 1.17. Dewatering of pipeline, utility and associated structure in rock excavations to be completed as per OPSS.MUNI 403
- 1.18. Trenching, backfilling and compacting must conform to OPSS.MUNI 401.

2. <u>WATERMAIN</u>

- 2.1. Watermain, water service connections and associated appurtenances must be constructed in accordance with the Ontario Provincial Standard Specifications / City of Ottawa Standards Specifications / Ministry of Environment and Climate Change Requirements. Specifically watermains must conform to OPSS.MUNI 441.
- 2.2. Watermain must be constructed as per OPSS.MUNI 441 and specifically OPSD 802.010. Bedding and cover material to be OPSS Granular 'A' compacted to 98% Standard Proctor Maximum Dry Density.
- 2.3. Watermain pipe materials must be class 150 PVC DR 18 or approved equivalent, unless otherwise shown on the Drawings. Materials must conform to OPSS 441.
- 3.4. The allowable deflected pipe diameter when using flexible pipe is as follows: 2.4. All watermain must be installed with a minimum of 2.40 - Pipes 100 to 750 mm: 7.5% of the base inside diameter meters cover from finished grade. Where a minimum of 2.40 of the pipe meters cover is not reached, thermal insulation is required - Greater than 750 mm: 5.0% of the base inside diameter as per City of Ottawa Details W21, W22 and W23. of the pipe
- 2.5. Watermain service connections must be installed a minimum of 2.40 meters from any catchbasin, manhole or object that may contribute to freezing. Thermal insulation must be installed as per City of Ottawa Details W22 and W23 where 2.40 meters of separation cannot be achieved.

- to be constructed as per OPSD 1104.010.
- methods to be in accordance with the requirements of the 2.7. Blow off installation at dead-ends to be installe as per OPSD 3.7. Where the storm sewer is located less than 3 m center to 1104.030.
 - 2.8. Cathodic protection (if required) must be installed as per City of Ottawa Details W40 and W42.
 - 2.9. Thrust block and restraints must be as per City of Ottawa Details W25.3, W25.4, W25.5 and W25.6. 2.10. Hydrant installation to be as per OPSS 441 and Details W18
 - and W19. 2.11. Hydrants will comply with AWWA C502. The following hydrant
 - is approved for use by the City on this project: Canada Valve B50-B24:
 - Size 150 mm; depth of bury 2 m; counter clockwise opening; 2 – 65 mm Canadian Underwriters Association approved hose connections and one No. 47A 100 mm pumper nozzle; two-piece barrels with breakaway flange; drain ring; painted yellow. The Contractor must ensure that the breakaway flange is located above the finished ground (approximately 150 mm). Hydrant pumper connection to face the roadway and nozzles must be parallel to the edge of pavement/curb line.
 - Hydrants must have three exits (two 65.5 mm and one 100.0 mm 'storz' of stainless steel) without drain. Fire hydrants must be installed such that the 'storz' exit points towards the building it will service. The Contractor must ensure that the breakaway flange is located above the finished ground (approximately 150 mm).
 - Fire flow tests followed by colour coding of hydrants (as per NFPA-291) must be carried out prior to substantial completion of the work.
 - 2.13. Valves to be installed as per City of Ottawa Special Provision F-4413 and conform to the following:
 - All valves must open in a counter clockwise direction; - Designed for cold water working pressure of 1035 kPa;
 - Types must be one of the following: - Valves less than 75 mm to be brass or bronze gate
 - Valves greater than or equal to 75 mm, and less than or 3.18. All inline drains to be as per Details 315. equal to 300 mm, to be cast or ductile iron gate valves; to be gate or butterfly valves;
 - 2.14. A continuous 12 gauge copper tracer wire must be installed over all watermains. Tracer wire must be tied to all fire 3.20. All catchbasins must have sumps (600 mm deep). hydrants.

Valves greater than 500 mm to be butterfly valves.

- 2.15. Valve box assembly to be as per City of Ottawa Detail W24.
- tested as per provincial and municipal regulations. It is the Contractor's responsibility to ensure that all requirements are
- 2.20. Hydrostatic testing to be completed as per OPSS 441.07.24. Testing must be completed under the supervision of the Contract Administrator. The test section will be either a pressure to be 1035 kPa.
- 2.21. Flushing and Disinfecting to be completed as per OPSS 441.07.25 under the supervision of the Contract Administrator.
- 2.24. Contractor must coordinate the supply and installation of water meter and remote water meter for the buildings with the mechanical engineer.
- 3. STORM SEWER
- 3.1. Storm sewers, laterals and storm service connections must be constructed in accordance with the Ontario Provincial Standard Specifications / City of Ottawa Standards Specifications / Ministry of Environment and Climate Change Requirements. Specifically storm sewers must conform to OPSS.MUNI 410.
- 3.2. Concrete storm sewer material to conform to OPSS.MUNI 1820. Concrete storm sewers to be installed as per OPSD 802.030 (Class B Bedding). Bedding and cover material to be OPSS Granular 'A'.
- 3.3. PVC storm sewer material to conform to OPSS.MUNI 1841. PVC storm sewers to be installed as per OPSD 802.010. Bedding and cover material to be OPSS Granular 'A'.
- Final backfill material for storm sewers must be approved native material or select subgrade material in conformance with OPSS.MUNI 212 .

- 2.6. Water service connections, 19 and 25 mm diameter in size, 3.6. Storm sewer pipes must be type PVC SDR-35, unless noted otherwise on the drawings.
 - center from a watermain the storm water pipes and joints must be equivalent to watermain standards, as per F-6-1Procedures to govern separation of sewers and watermains -MECP.
 - 3.8. All storm sewers to be C.C.T.V. inspected by the Contractor as per OPSS.MUNI 409. Report must be provided to the Engineer in two (2) copies and the C.C.T.V. inspection in DVD 4.10. Sanitary manholes to be backfilled with OPSS Granular 'B' format only.
 - 3.9. Storm manholes, manhole/catchbasins, catchbasins, ditch inlets and valve chambers to be installed as per OPSS 407.
 - 3.10. Adjustment or rebuilding of manholes, manhole/catchbasins, catchbasins, ditch inlets and valve chambers to be completed as per OPSS 408.
 - 3.11. Excavating, backfilling, and compacting for manholes, manhole/catchbasins, catchbasins, ditch inlets and valve chambers to be completed as per OPSS 402.
 - 3.12. Storm manhole, manhole/catchbasin and catchbasin excavations to be backfilled with OPSS Granular 'B' compacted to 100% Standard Proctor Maximum Dry Density (SPMDD). Joints between sections must be wrapped in a 4.14. non-woven geotextile.
 - 3.13. Precast concrete storm manholes and manhole/catchbasins to be as per OPSD 701.010 and must be equipped with safety platform as per OPSD 404.020 when exceeding 5.0 m to the lowest invert. Additional knockouts needed for connection of subdrains to manhole/catchbasins where required.
 - 3.14. HDPE manhole to be as per detail 304B.
 - 3.15. Storm manhole frame and cover to be as per OPSD 401.010 Type "A" closed cover.
 - 3.16. Storm manhole/catchbasin frame and cover to be as per OPSD 401.010 Type "B" open cover.
 - 3.17. All catchbasins to be as per OPSD 705.010 complete with frame and grate as per OPSD 400.020.

 - Valves greater than 300 mm up to and including 500 mm 3.19. All catchbasin leads to be 200 mm diameter, PVC SDR-35 with a minimum slope of 2.0% unless otherwise noted. The Contractor may use long radius bends as per City of Ottawa Details S11 and S11.1.

 - 3.21. A maintenance hole drop structure tee is to be used as per OPSD 1003.010 when the drop from the inlet invert to the outlet invert is greater than 600 mm and less than 1200 mm. A drop structure wye is to be used as per OPSD
 - distance of the catchbaisn in all direction. Subdrains to be constructed as per Detail 305.
 - 3.24. The Contractor must implement best management practices to provide for protection of receiving storm sewer or
 - 3.26. For building roof drain sizes and location refer to architectural and mechanical drawings.
 - section between valves or the completed watermain. Test 3.27. A storm water tank is required and must be constructed using Stormtech MC-3500 Chambers (5 Chambers) by ADS or approved equivalent and per detail 353. The bottom of the tank will be sloped towards the outlet in order to facilitate sediment removal at self-cleansing velocities. The maintenance hole at the outlet of the tank will be equipped with a pump.
 - 3.28. A pump will be required at the outlet to the storm tank in order to deliver a constant release rate and ensure the proposed private storm sewer system will not be overwhelmed in the event of surcharge in the municipal system (refer to mechanical drawinas).
 - 4. <u>SANITARY SEWER</u>

of the pipe

- 4.1. Sanitary sewers, laterals and service connections must be constructed in accordance with the Ontario Provincial Standard Specifications / City of Ottawa Standards Specifications / Ministry of Environment and Climate Change Requirements. Specifically sanitary sewers must conform to OPSS.MUNI 410.
- PVC sanitary sewer pipe material to type PVC SDR-35, conforming to OPSS.MUNI 1841. PVC sanitary sewers to be installed as per OPSD 802.010 (Class B Bedding). Bedding and cover material to be OPSS Granular 'A'.
- 4.3. The allowable deflected pipe diameter when using flexible pipe is as follows:
 - Pipes 100 to 750 mm: 7.5% of the base inside diameter of the pipe - Greater than 750 mm: 5.0% of the base inside diameter
- 4.4. Final backfill material for sanitary sewers must be approved native material or select subarade material in conformance with OPSS.MUNI 212.
- 4.5. Where the sanitary sewer is located less than 3 m center to center from a watermain and where located next to the storm tank the sanitary pipes and joints must be equivalent to watermain standards, as per F-6-1 Procedures to govern separation of sewers and watermains - MECP.
- 4.6. All sanitary sewers to be C.C.T.V. inspected by the Contractor as per OPSS.MUNI 409. Report must be provided to the Engineer in two (2) copies and the C.C.T.V. inspection in DVD

format only.

- 4.7. Sanitary manholes to be installed as per OPSS 407.
- 4.8. Adjustment or rebuilding of sanitary manholes to be completed as per OPSS 408.
- 4.9. Excavating, backfilling, and compacting for sanitary manholes to be completed as per OPSS.MUNI 402.
- compacted to 100% Standard Proctor Maximum Dry Density (SPMDD). Joints between sections must be wrapped in a non-woven geotextile.
- 4.11. Sanitary manholes to be as per OPSD 701.010 and must be equipped with safety platform as per OPSD 404.020 when exceeding 5.0 m to the lowest invert.
- 4.12. Sanitary manhole frame and cover to be as per OPSD 401.010 Type "A" closed cover.
- 4.13. A maintenance hole drop structure tee is to be used as per OPSD 1003.010 when the drop from the inlet invert to the outlet invert is greater than 600 mm and less than 1200 mm. A drop structure wye is to be used as per OPSD 1003.020 when the drop exceeds 1200 mm.
- . Sanitary service connections to rigid main sewer pipe to be as per City of Ottawa Detail S11. Connections to flexible main sewer pipe to be as per City of Ottawa Detail S11.1.
- 4.15. When a minimum cover of 1.8 meters is not reached, frost protection is required as per Details.
- 4.16. Benching is required inside the concrete bottom of sanitary manholes as per OPSD 701.021.

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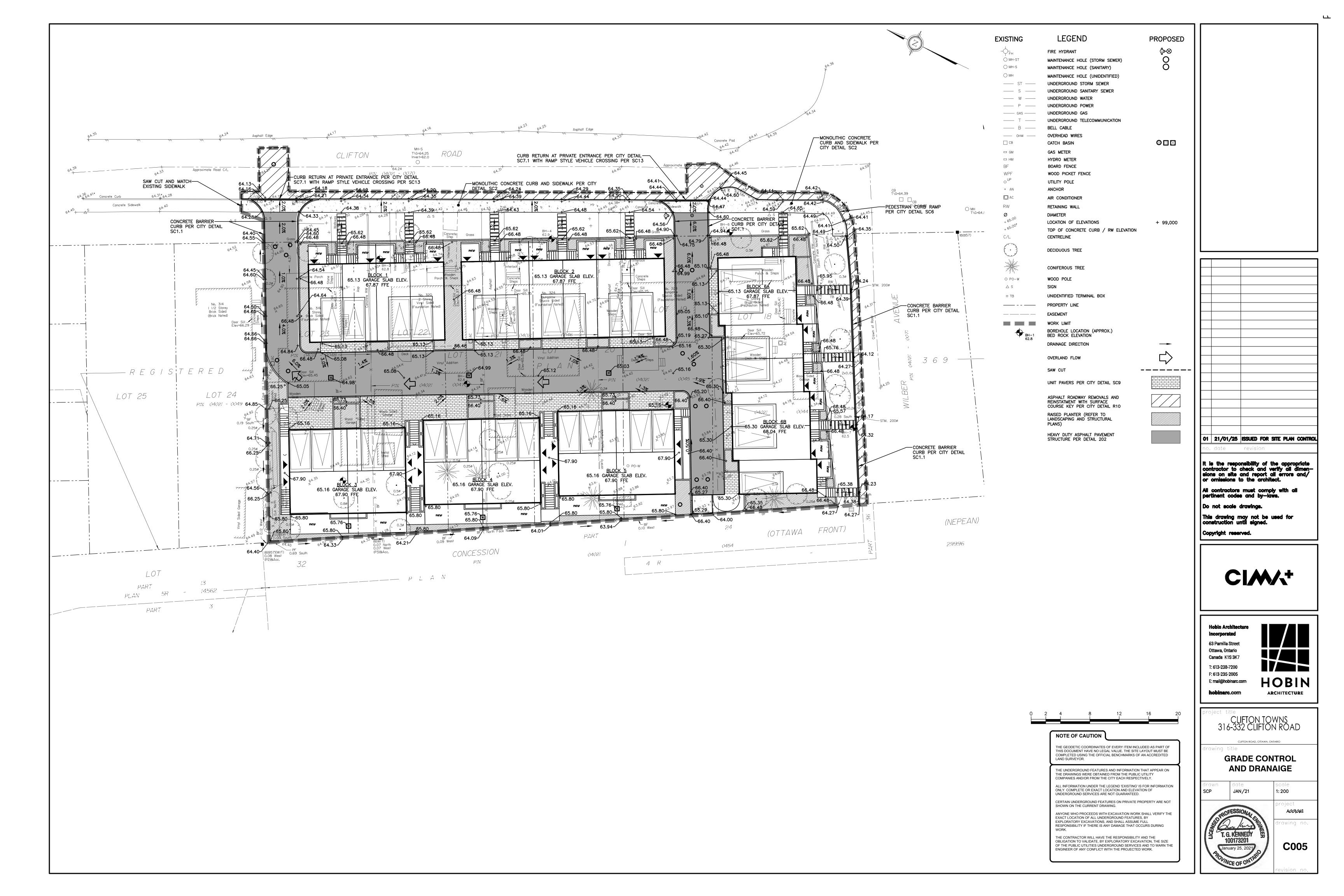
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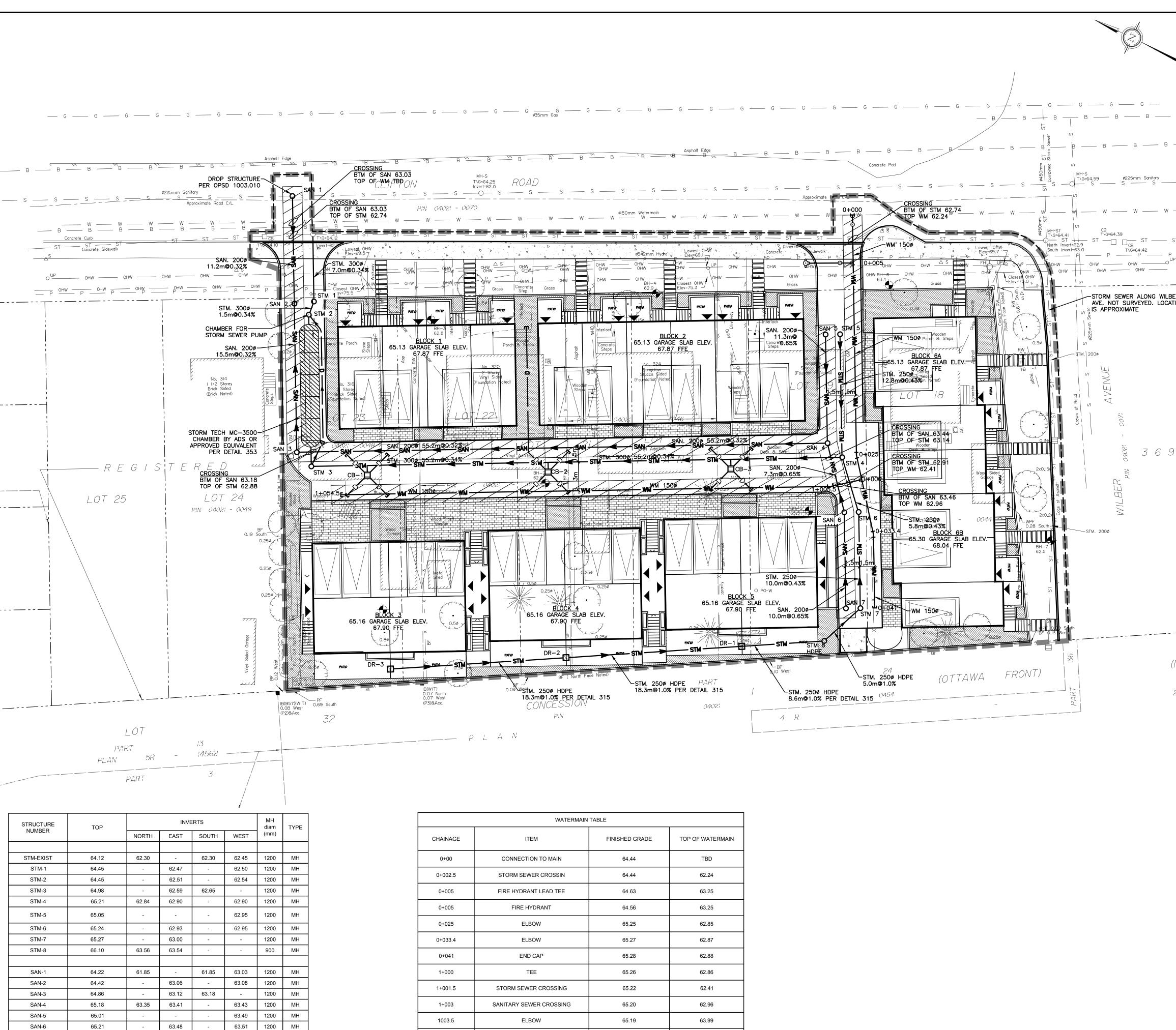
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January 25, 202

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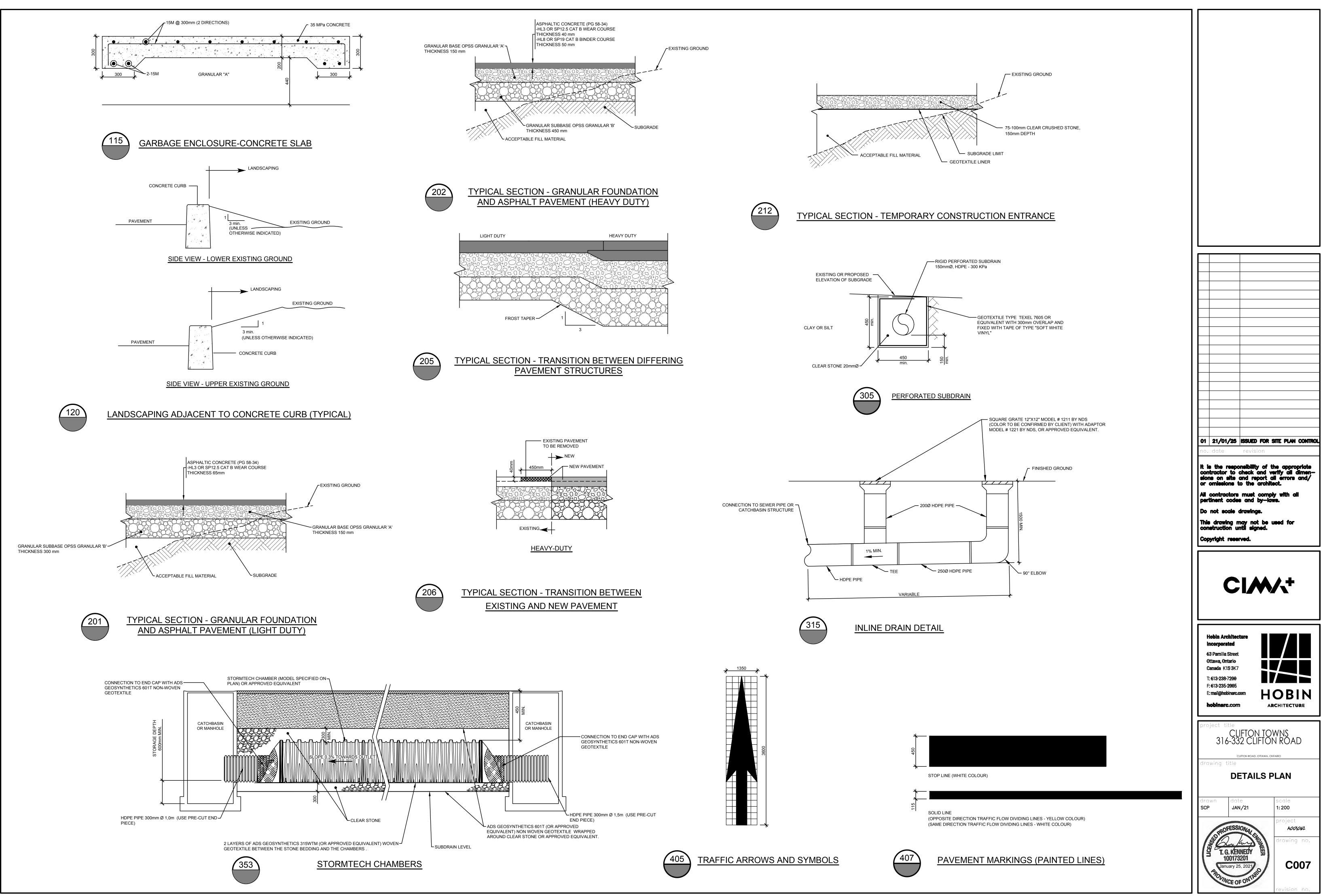
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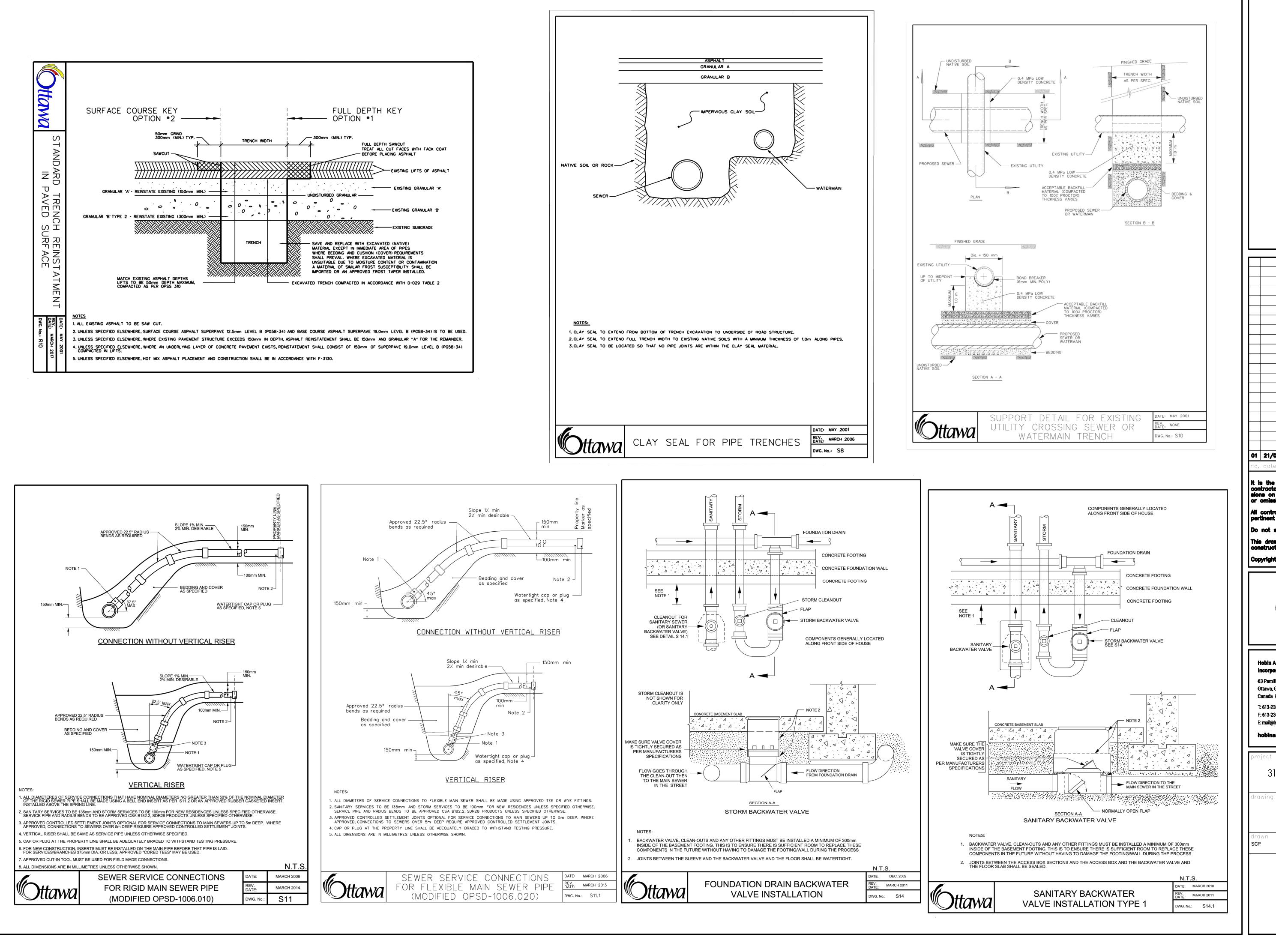
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FIRE HYDRANT	64.56	63.25
ELBOW	65.25	62.85
ELBOW	65.27	62.87
END CAP	65.28	62.88
TEE	65.26	62.86
M SEWER CROSSING	65.22	62.41
RY SEWER CROSSING	65.20	62.96
ELBOW	65.19	63.99
END CAP	65.05	63.85

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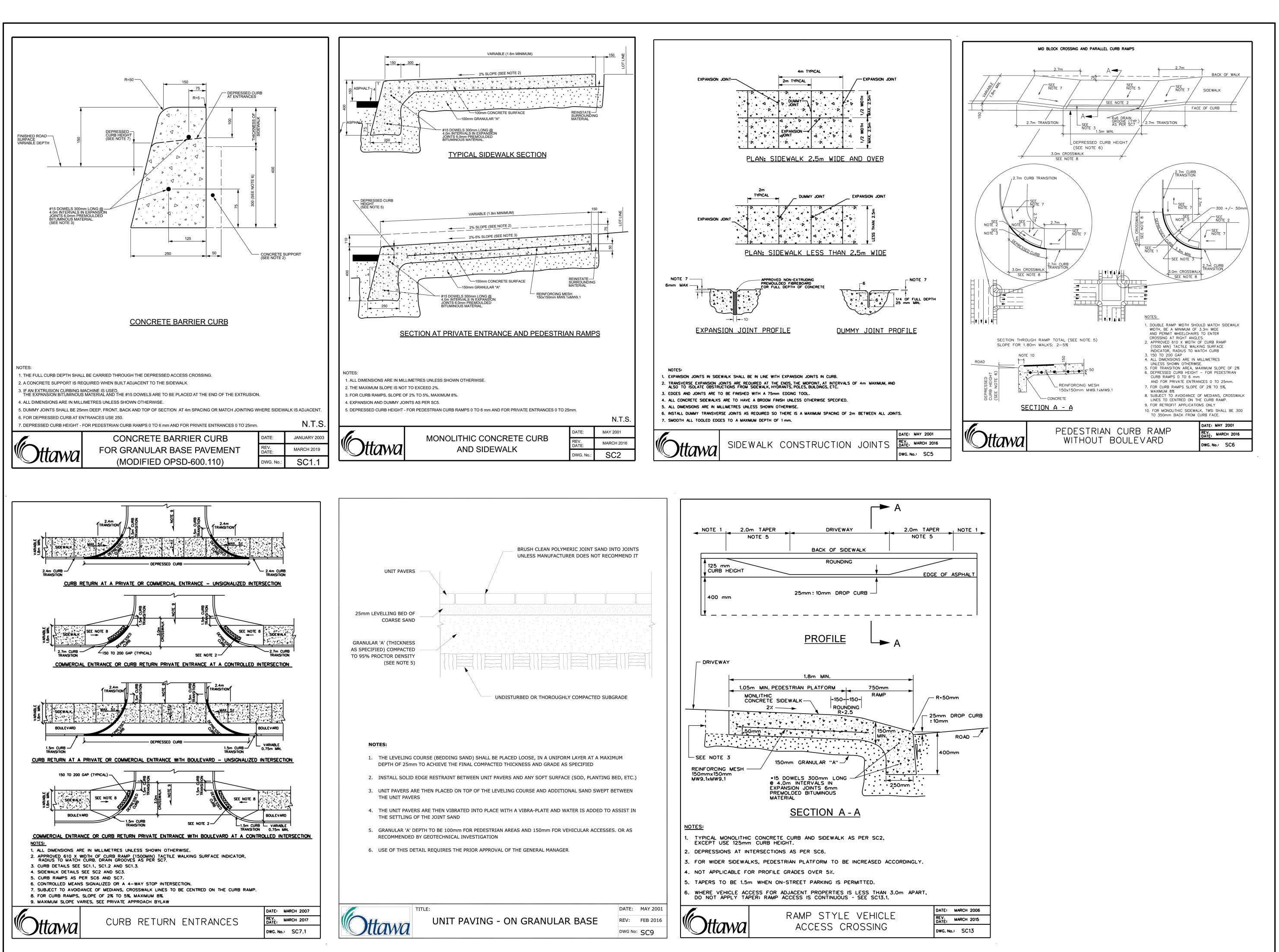
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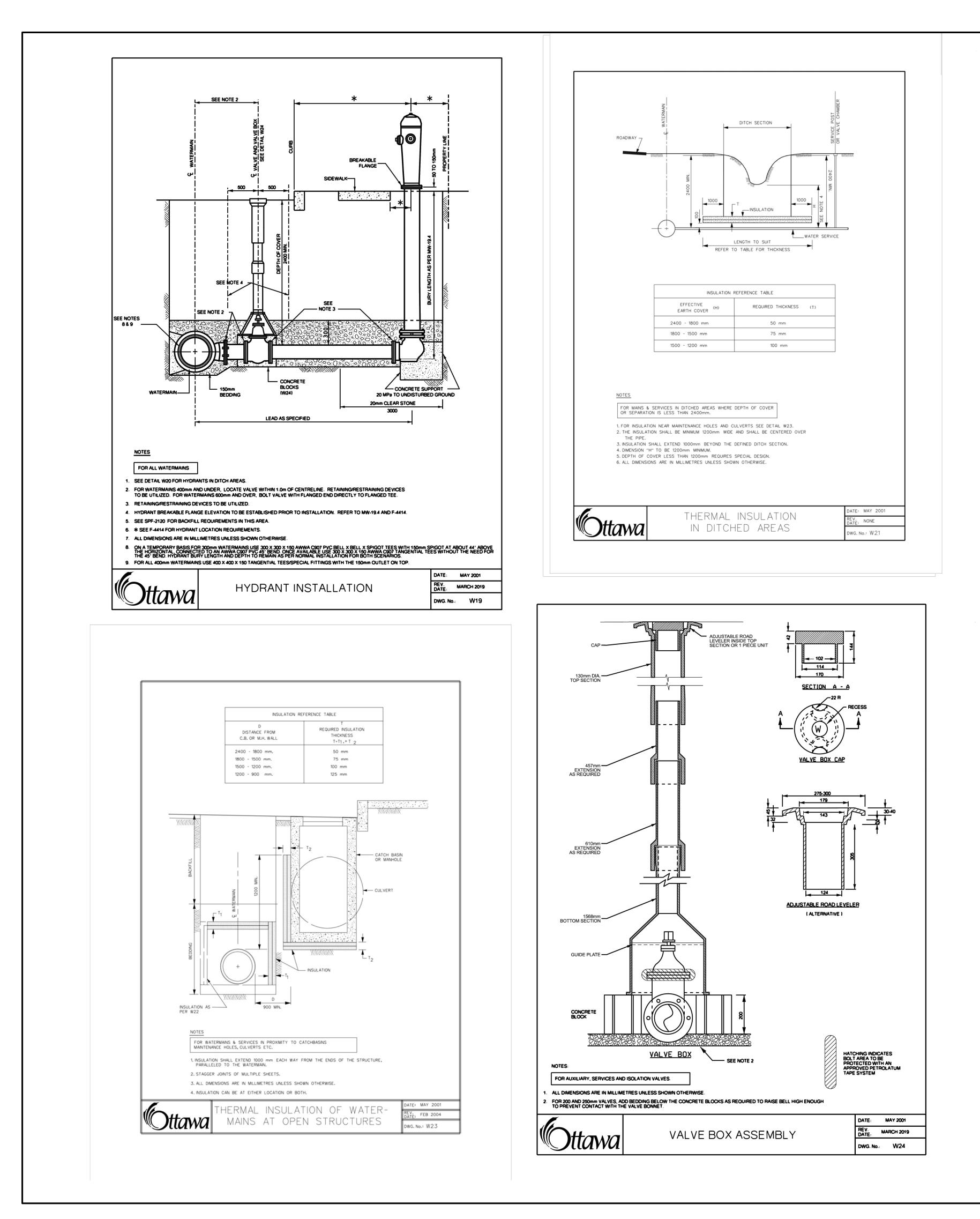
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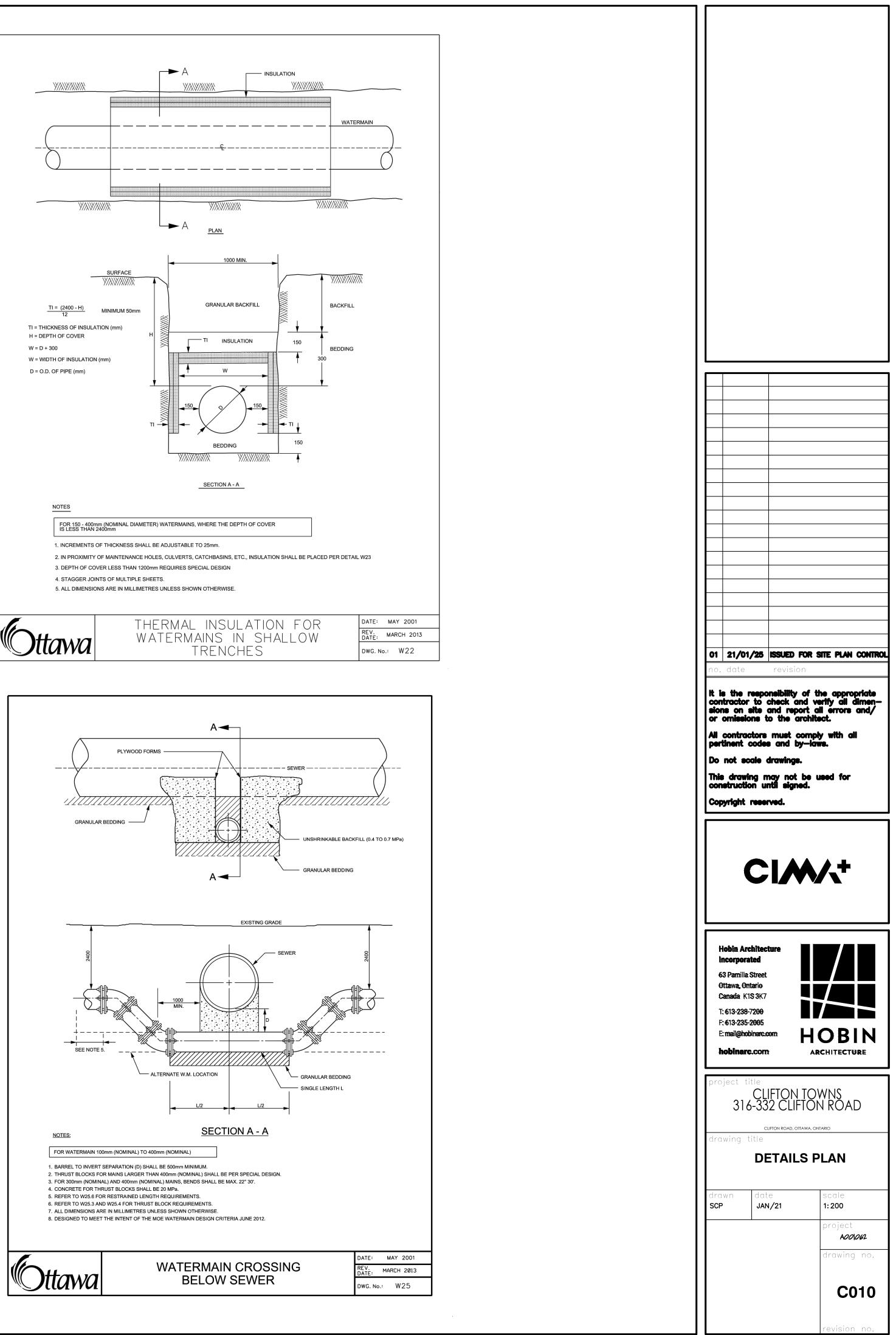


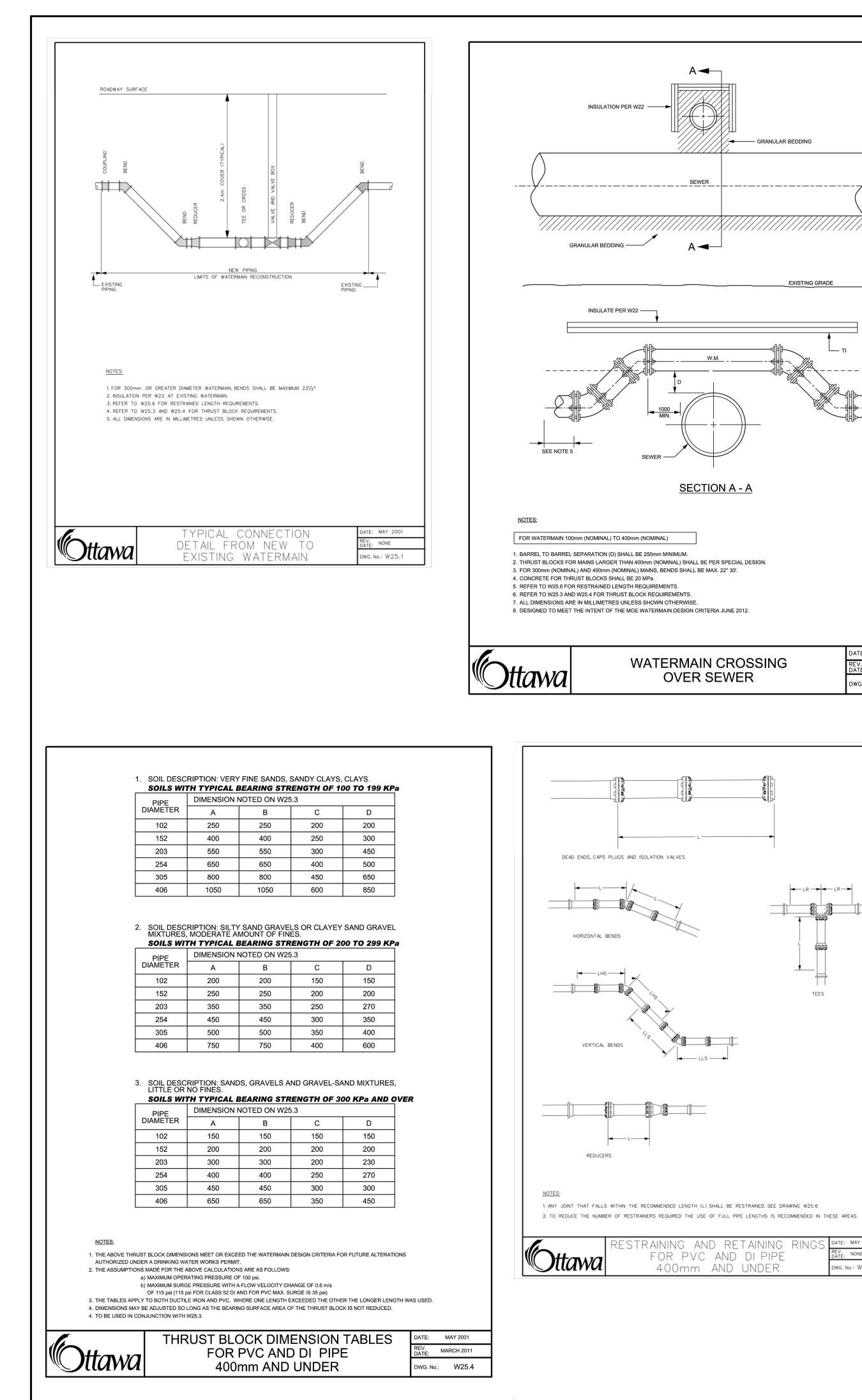
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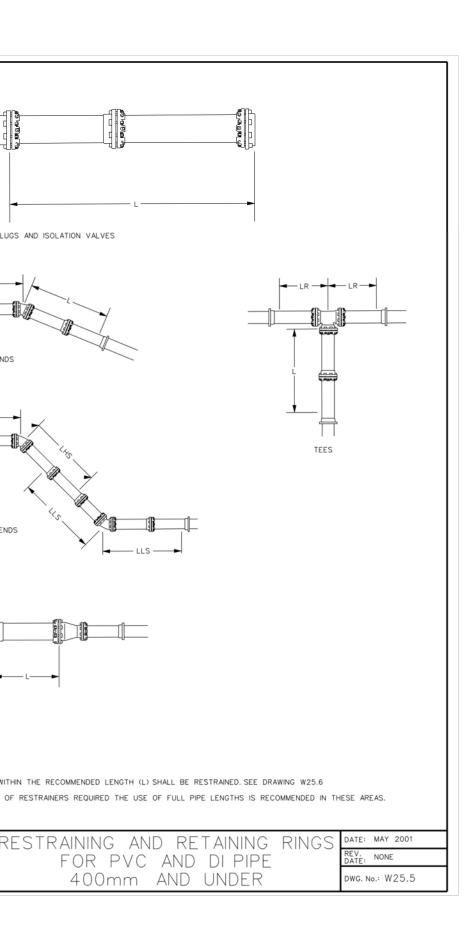


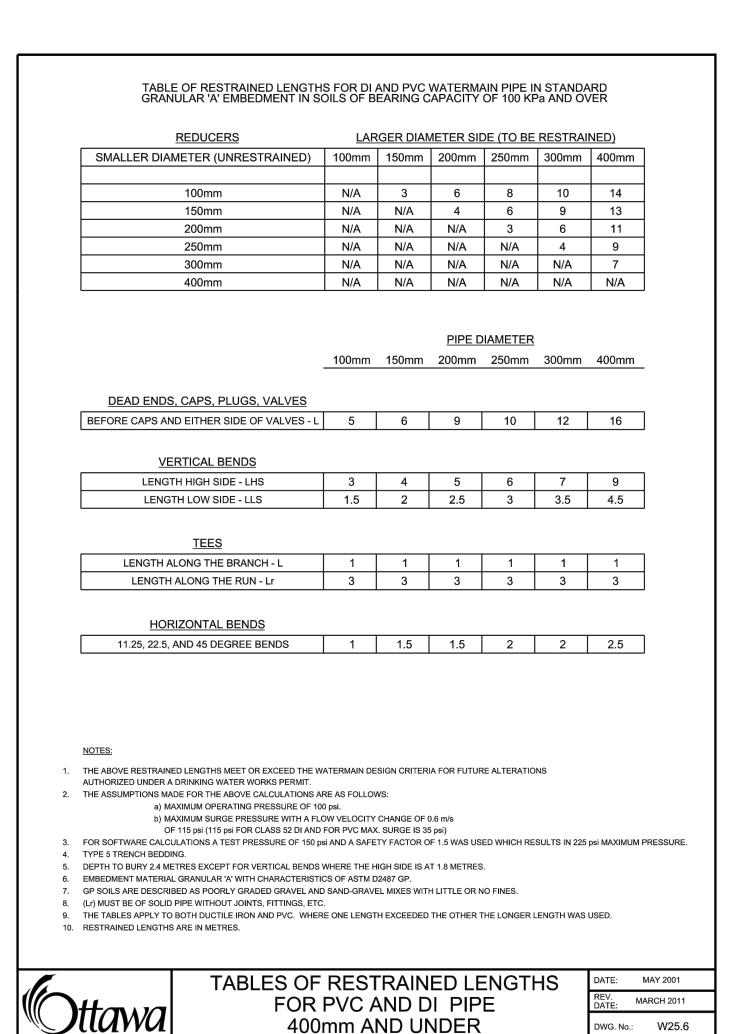
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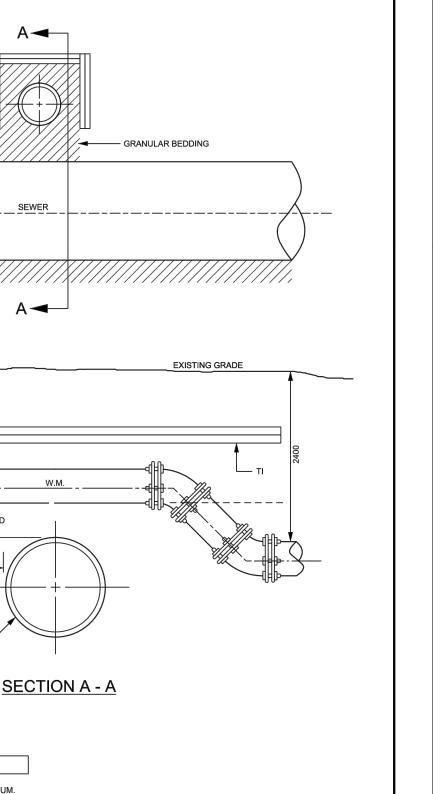


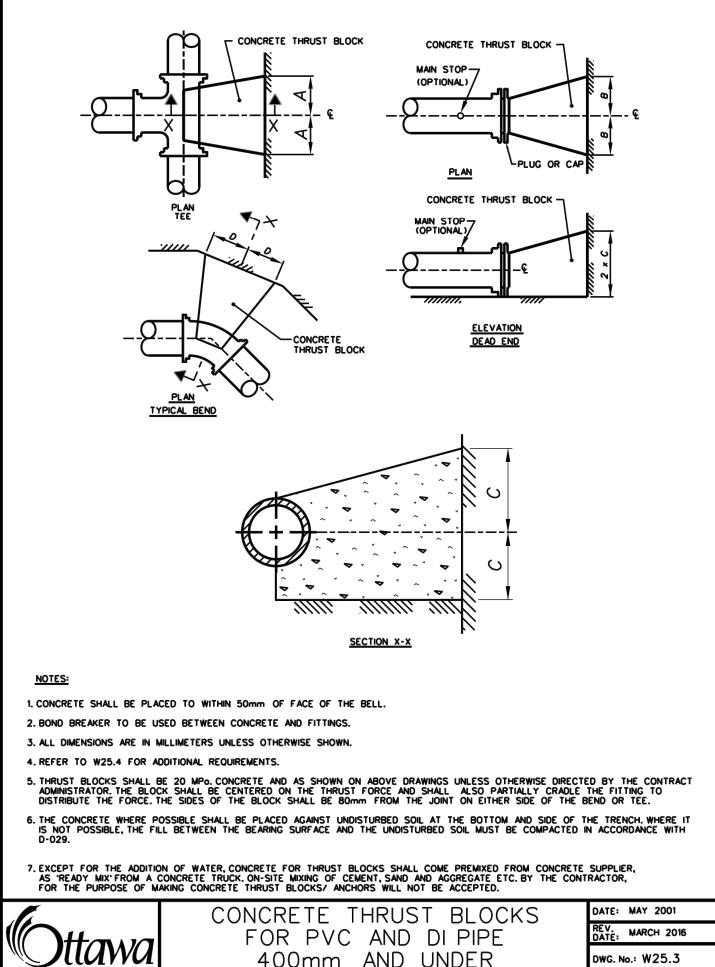




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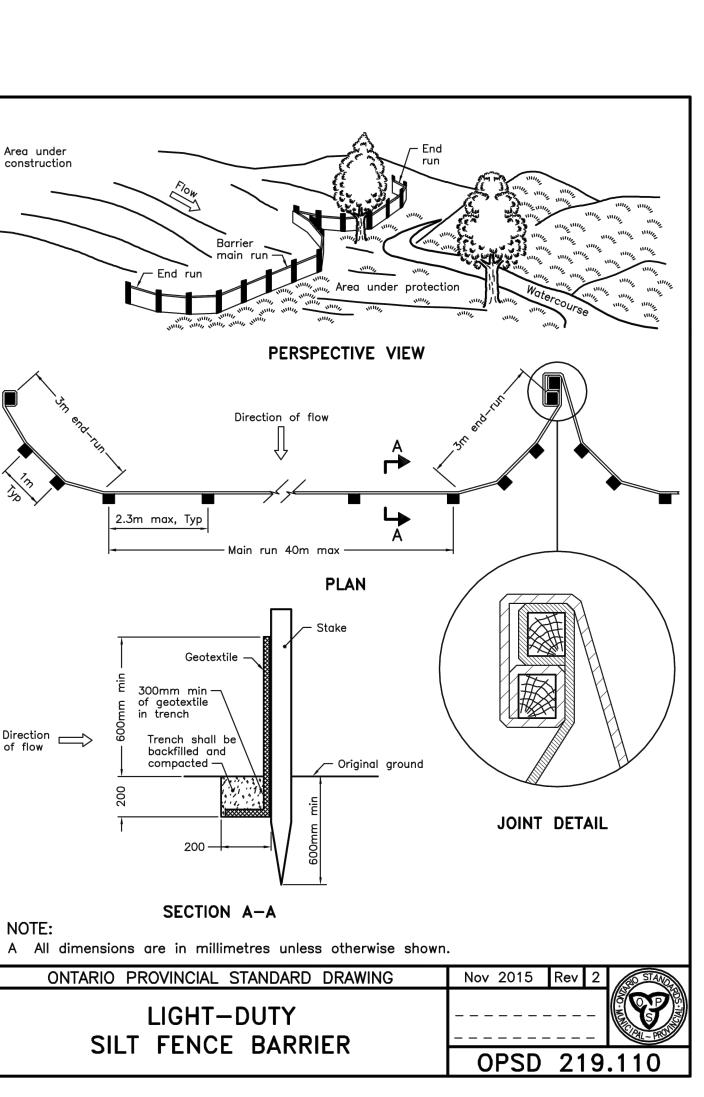
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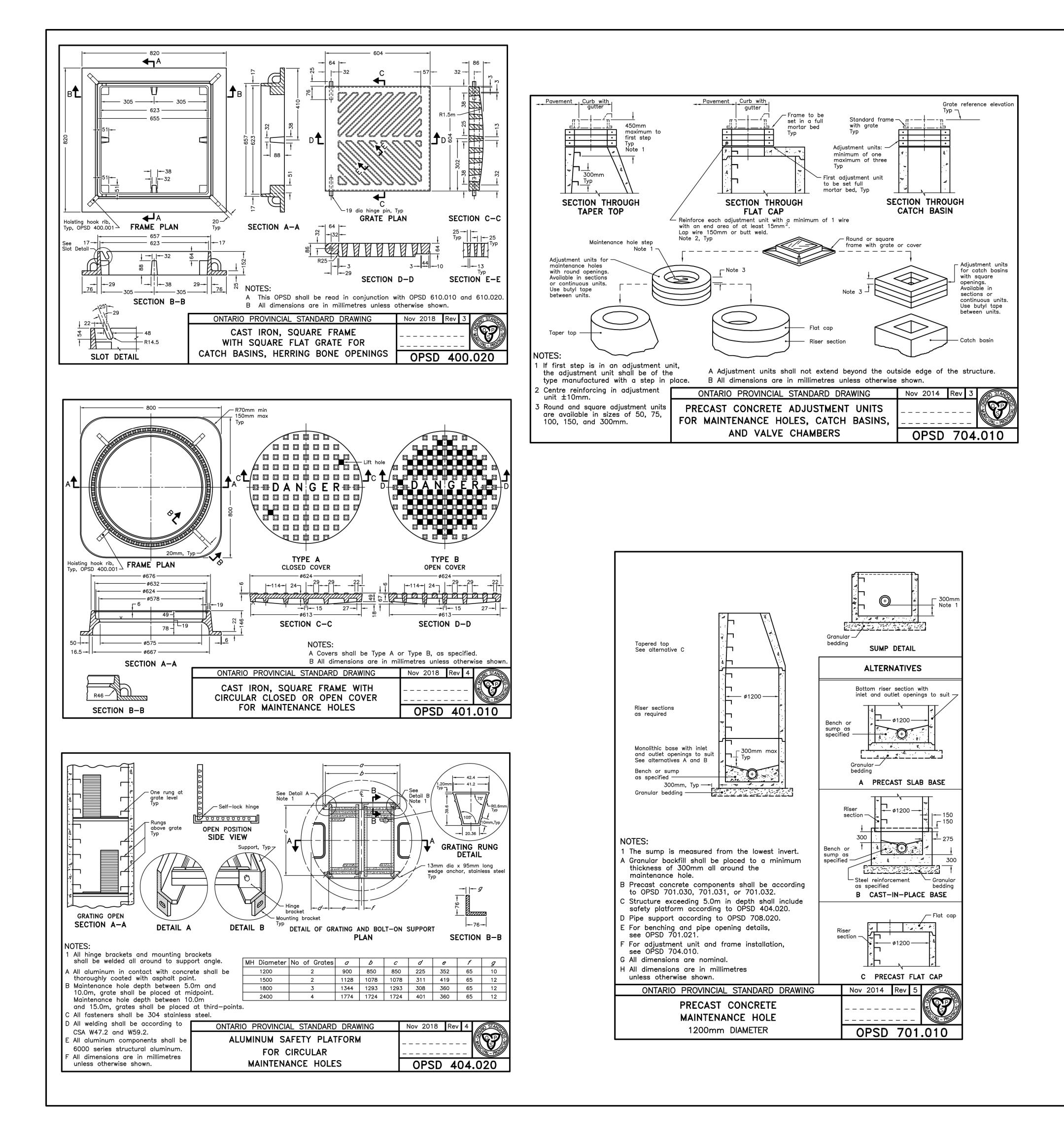
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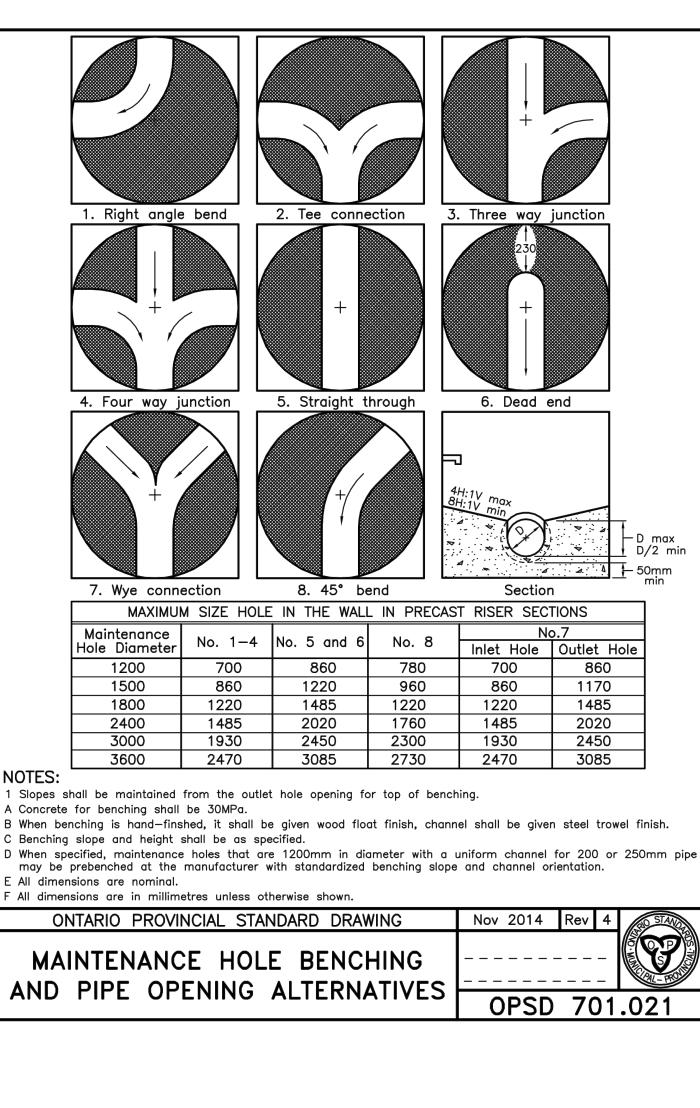
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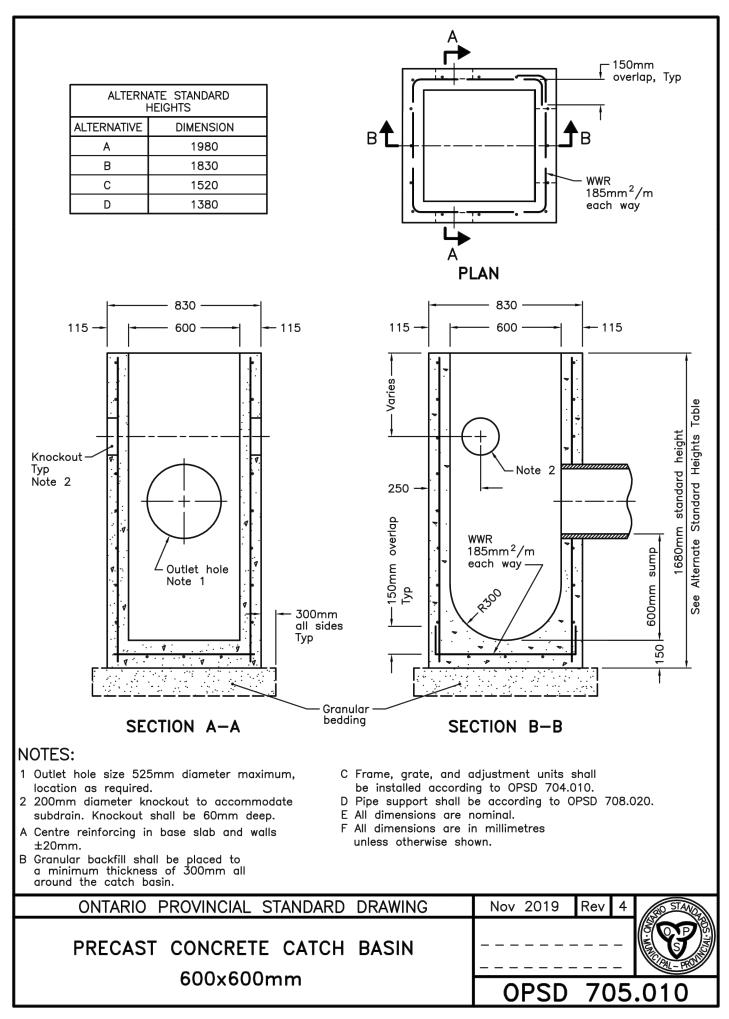
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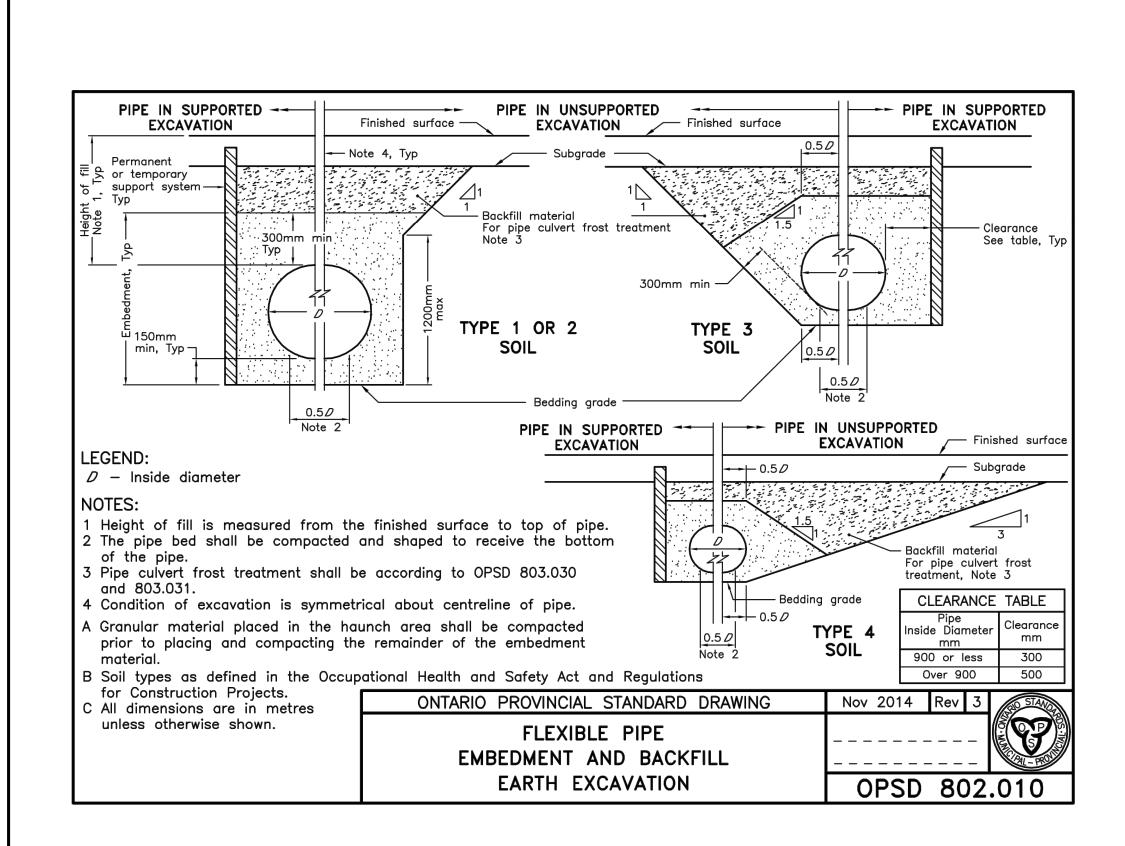


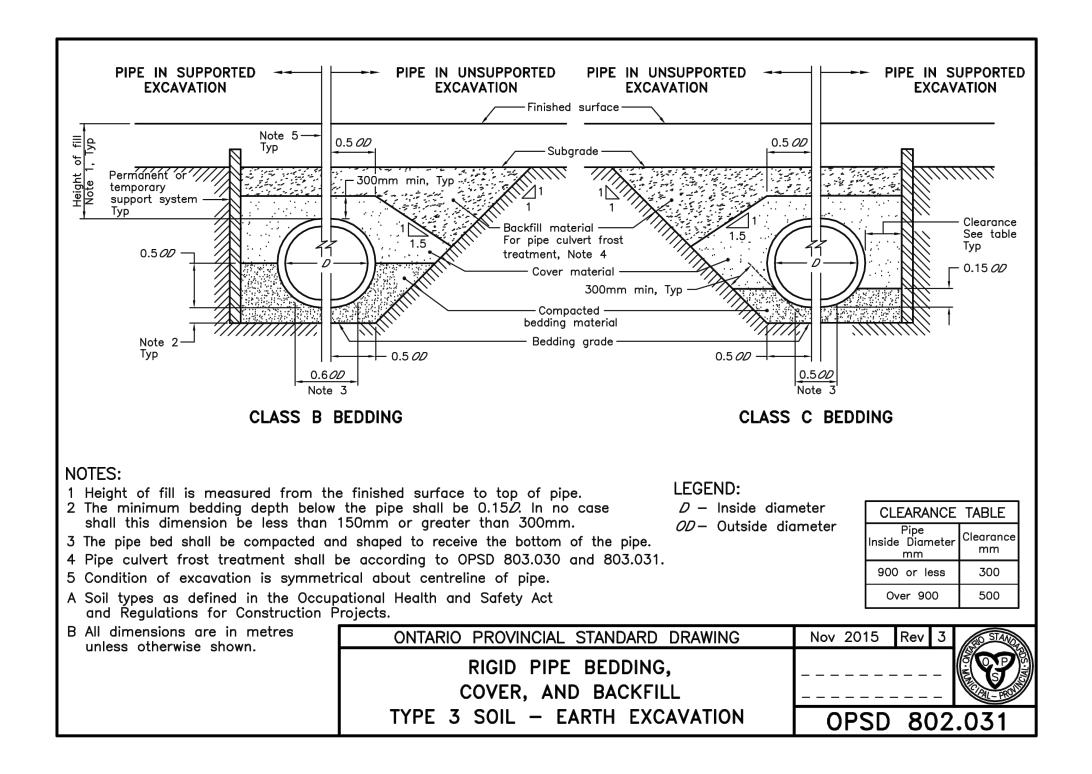


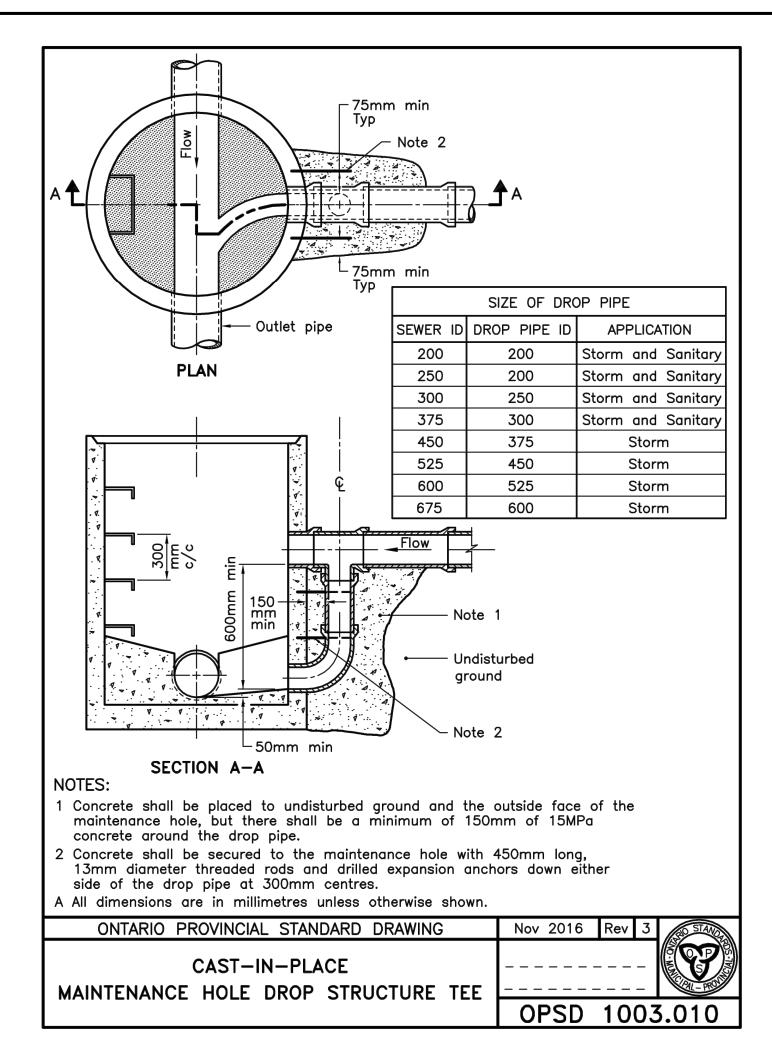


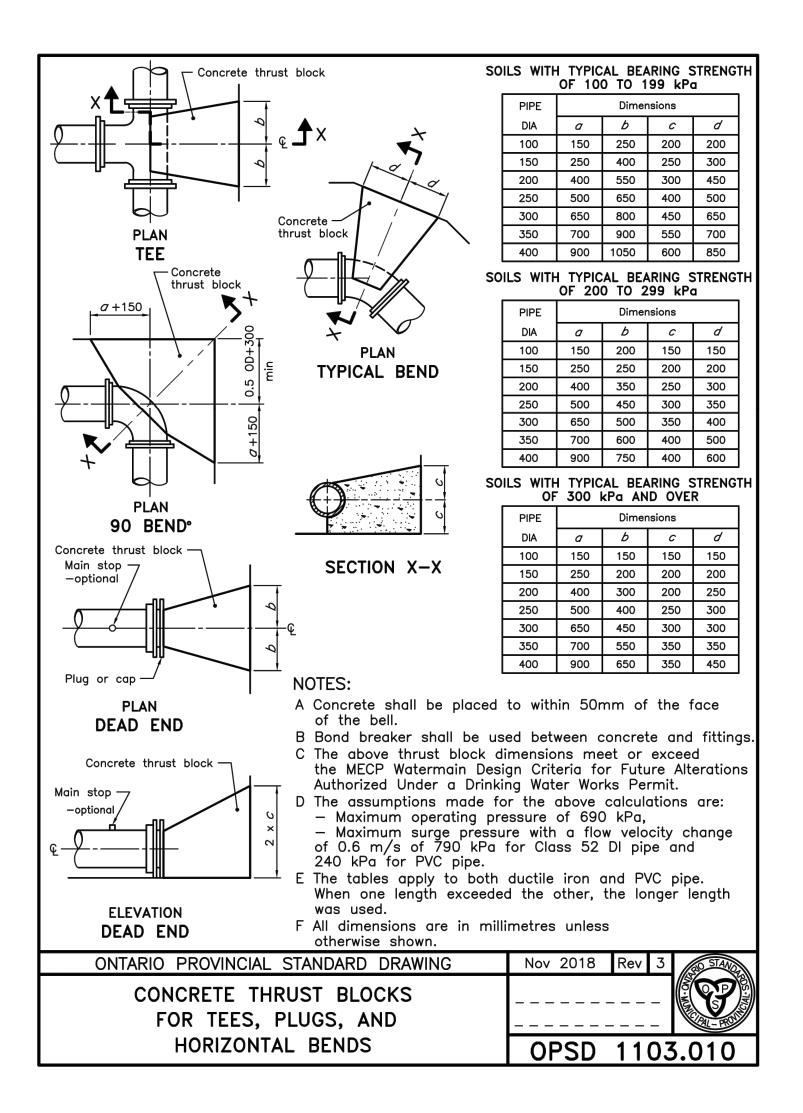
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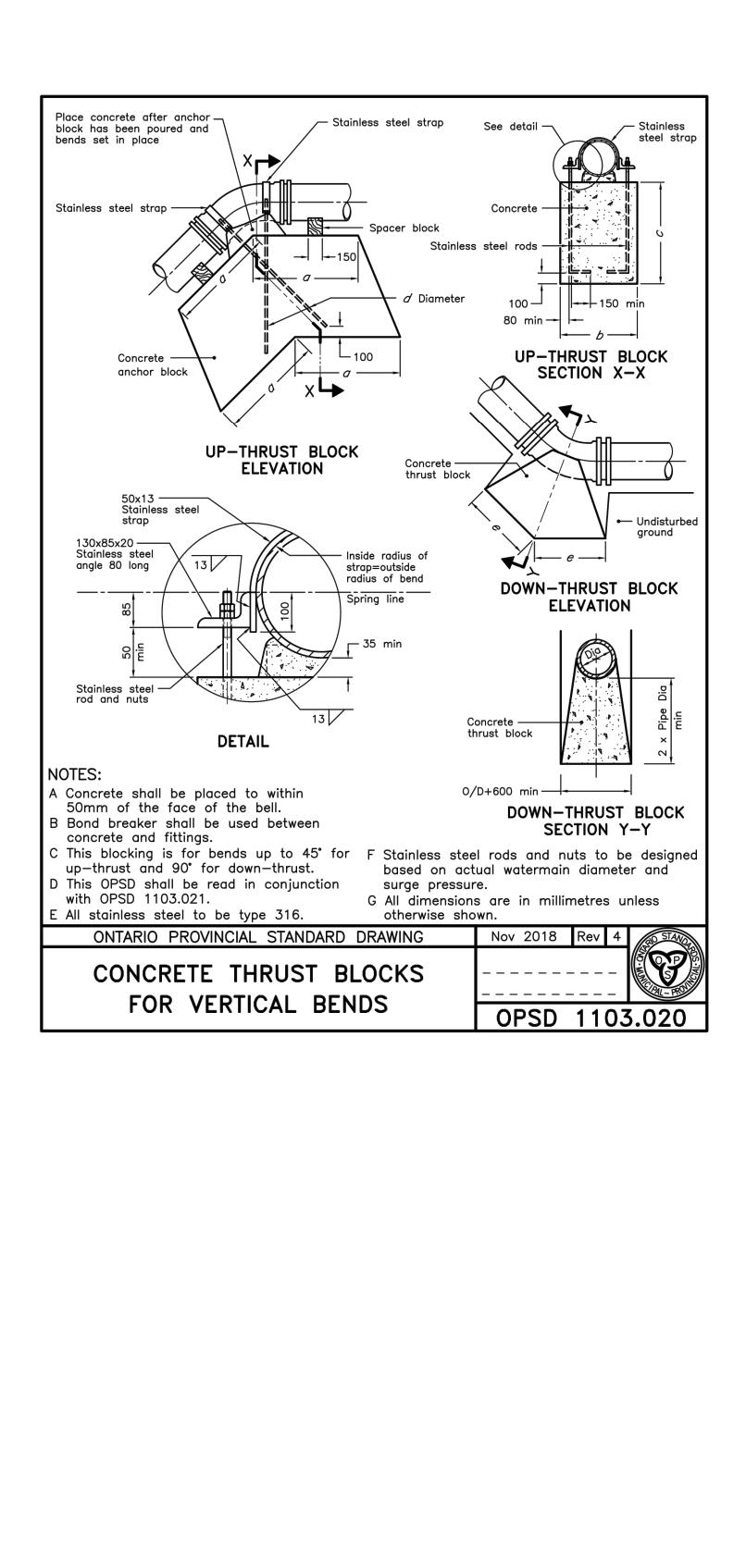
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