# MADORI LIMITED ELM ROAD

#### GENERAL NOTES

- THE NOTES ON THIS SHEET APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ON THE PLAN AND PROFILE DRAWINGS AND/OR SPECIFIC DETAIL DRAWINGS.
- 2. ALL MATERIALS ARE TO COMPLY WITH THE MANUFACTURER'S SPECIFICATIONS PER APPROVED PRODUCTS AS LISTED IN SCHEDULE 'C' OF THE TOWN'S GUIDELINES.
- 3. THE STANDARD DRAWINGS OF THE TOWN OF WHITCHURCH—STOUFFVILLE, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS) AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) CONSTITUTE PART OF THE PLANS OF THIS CONTRACT. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY TOWN OF WHITCHURCH—STOUFFVILLE STANDARD DRAWINGS, AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL RELEVANT STANDARD DRAWINGS AND SPECIFICATIONS AS REQUIRED FOR THIS CONTRACT.
- . UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ON THE ENGINEERING DRAWINGS ARE IN METRES
- 6. ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE
- 7. EXISTING SERVICES AND UTILITIES SHOWN ON THESE CONTRACT DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE AND THEIR LOCATIONS ARE NOT GUARANTEED. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS HE WISHES WITH THE UNDERSTANDING THAT THE OWNER DISCLAIMS ALL RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY.
- 8. THE CONTRACTOR IS RESPONSIBLE TO ARRANGE FOR AND MAINTAIN ALL UTILITY STAKE-OUTS AND
- 9. ALL PRIMARY HYDRO, STREET LIGHT CABLE, TELECOMMUNICATION CABLE, GAS LINES AND CABLE T.V. SHALL BE PLACED UNDERGROUND IN LOCATIONS SHOWN ON THE ROAD SECTIONS LISTED IN THE STANDARD DRAWINGS.
- 10. ALL SILT CONTROL AND EROSION PROTECTION DEVICES ARE TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GROUND COVER HAS ESTABLISHED GROWTH, SUBJECT TO APPROVAL BY THE TOWN
- 11. NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM
- 12. GRANULAR MATERIAL USED FOR BACKFILL, SHALL BE PLACED IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- 13. ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE ENGINEER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING A MINIMUM DEPTH OF 150mm AND A MAXIMUM DEPTH OF 250mm OF APPROVED TOPSOIL AND
- 14. ALL FENCING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN STANDARD DRAWINGS.
- 15. THE STREET LIGHTING SYSTEM SHALL BE DESIGNED BY A QUALIFIED CONSULTING ENGINEER IN ACCORDANCE WITH THE ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) LATEST EDITION STANDARDS AND APPROVED BY THE TOWN. STREET LIGHTING SYSTEMS FOR ROADWAYS IN THE TOWN OF WHITCHURCH—STOUFFVILLE SHALL MEET THE REQUIREMENTS OF HYDRO ONE.
- 16. ALL DESIGNS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REGION OF YORK STANDARDS WHICH MEET THE REQUIREMENTS OF THE ACCESSIBLILITY FOR ONTARIANS WITH DISABILITIES ACT (AODA).

## GENERAL NOTES - ROADS

- THE ROAD PAVEMENT MINIMUM STRUCTURE SHALL CONSIST OF THE FOLLOWING AND WILL BE CONFIRMED BY A SOILS CONSULTANT AND APPROVED BY THE TOWN:
- LOCAL ROAD: 40mm HL3 SURFACE COURSE ASPHALT
  50mm HL8 BASE COURSE ASPHALT
  - 150mm GRANULAR 'A' OR 20mm CRUSHER RUN LIMESTONE
- 350mm GRANULAR 'B' OR 50mm CRUSHER RUN LIMESTONE\*
  \*EQUIVALENT DEPTH OF GRANULAR A FROM AN APPROVED SOURCE MAY BE SUBSTITUTED UPON
- \*\*EQUIVALENT DEPTH OF RECYCLED CONCRETE OR GRANULAR B FROM AN APPROVED SOURCE MAY BE
- SUBSTITUTED UPON OBTAINING WRITTEN APPROVAL FROM THE TOWN.

  2. BOULEVARDS IN URBAN AREAS AND DITCHES IN RURAL AREAS ARE TO BE STABILIZED WITH No. 1
- NURSERY SOD PLACED ON A MINIMUM 150mm AND MAXIMUM 250mm DEPTH OF TOPSOIL.
- 3. NATIVE SUBGRADE TO BE COMPACTED TO MINIMUM 98% STANDARD PROCTOR MAXIMUM DRY DENSITY AND SHALL BE PROOF ROLLED. NATIVE SUBGRADE SHALL HAVE A CROSS—FALL OF 3% AND THE MATERIAL SHALL BE APPROVED BY A SOILS CONSULTANT AND IS SUBJECT TO APPROVAL BY THE TOWN ENGINEER.
- . 150mm DIAMETER PERFORATED, FILTER CLOTH WRAPPED PLASTIC CORRUGATED SUB-DRAINS WILL BE REQUIRED TO RUN CONTINUOUS ALONG BOTH SIDES OF ALL ROADS WITH CURB AND GUTTER.
- 5. CONCRETE CURB AND GUTTER CONFORMING TO OPSD 600.040 OR 600.070 (TWO STAGE) SHALL BE USED. CONCRETE STRENGTH IS TO BE A MINIMUM OF 32MPq AT 28 DAYS WITH  $7\% \pm 1.5\%$  AIR ENTRAINMENT.
- 6. DRIVEWAY DEPRESSIONS SHALL BE FORMED IN THE CURB AS PER OPSD 351.010.
- 7. SIDEWALK CONSTRUCTION SHALL COMPLY WITH OPSD M310.010 (MODIFIED) AND SHALL BE CONSTRUCTED ON 100mm OF 19mm CRUSHER RUN LIMESTONE COMPACTED FOUNDATION. CONCRETE STRENGTH IS TO BE A MINIMUM OF 32MPa AT 28 DAYS WITH 7% ± 1.5% AIR ENTRAINMENT. SIDEWALK AT RESIDENTIAL DRIVEWAYS TO BE 150mm THICK, AND AT INDUSTRIAL/COMMERCIAL/INSTITUTIONAL/MULTIPLE RESIDENTIAL BLOCK DRIVEWAYS SHALL BE 200mm THICK..
- 8. PROVIDE FROST TAPERS FOR ROAD CROSSING CULVERTS AS PER OPSD 803.030.
- 9. RESIDENTIAL DRIVEWAYS TO BE CONSTRUCTED WITH A MINIMUM OF 150mm GRANULAR 'A', AND BE PAVED WITH A MINIMUM OF 50mm OF HL8 BASE AND 25mm HL3A TOP ASPHALT FROM STREET TO GARAGE/DWELLING, OR AS APPROVED BY THE TOWN.
- 10. ALL ACCESS DRIVEWAYS SHALL BE LOCATED A MINIMUM OF 1.2m FROM LIGHT POLES, HYDRO TRANSFORMERS, CATCHBASINS, HYDRANTS, WATERMAIN VALVES, BELL MANHOLES, BELL AND CABLE TV JUNCTION BOXES, UTILITY VAULTS, WATER SERVICE VALVE BOXES, SIDE LOT LINES AND OTHER DRIVEWAYS. WHERE FRONTAGE LIMITATIONS INTERFERE WITH STANDARD LOCATIONS, SITE SPECIFIC SOLUTIONS SHALL BE DETAILED IN THE PLAN AND PROFILE AND LOT GRADING PLANS.
- 11. MINIMUM SLOPES ON DRIVEWAYS SHALL BE 1.0% AND MAXIMUM SLOPES SHALL BE 6.0%.
- 12. ROAD OCCUPANCY PERMIT IS REQUIRED FROM THE TOWN PUBLIC WORKS DEPARTMENT PRIOR TO THE COMMENCEMENT OF ANY WORK ON ANY ROAD THAT IS EXTERNAL TO THE PLAN. A MINIMUM 48 HOUR NOTICE IS REQUIRED.

#### GENERAL NOTES - STORM SEWERS

- 1. STORM SEWER TO BE LOCATED TYPICALLY 1.5m TO THE WEST OR SOUTH OF CENTRELINE OF THE ROAD.
- PIPE SHALL CONFORM TO THE REQUIREMENTS SHOWN BELOW:

   NON-REINFORCED CONCRETE PIPE, CSA STANDARD A257.1 CLASS 1,2,3.
   REINFORCED CONCRETE PIPE, CSA STANDARD A257,2 STRENGTH CLASS 50-D, 65-D, 100-D AND 140-D.
   PVC PIPE, CSA STANDARD B182.1 AND B182.2 (DR35).
- 3. ALL STORM SEWERS OVER 450mm DIAMETER SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE PIPE.
- 4. SEWERS SHALL BE CONSTRUCTED WITH 19mm CRUSHER RUN LIMESTONE BEDDING AS PER OPSD 802.010, AND 802.030, UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL CONSULTANT AND APPROVED BY THE
- 5. TRENCH BACKFILL APPROVED BY THE GEOTECHNICAL ENGINEER SHALL BE PLACED IN 200mm LIFTS AND COMPACTED TO 95% SPMDD.
- 6. ALL STORM SEWER MANHOLES TO BE ACCORDING TO TOWN STANDARDS AND BE BENCHED TO OBVERT IN ACCORDANCE WITH OPSD 701.021.
- 7. DROP STRUCTURES SHALL CONFORM WITH OPSD 1003.010 AND 1003.020.
- 8. MANHOLE TOPS ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE. INTEGRATED FRAME AND COVERS ARE TO BE UTILIZED FOR ALL MANHOLES. GRADE AND CROSSFALL ADJUSTMENT SHALL BE MADE USING PRODUCTS SPECIFICALLY MANUFACTURED FOR THAT PURPOSE.
- 9. CATCHBASINS MUST BE OF THE PRECAST TYPE AS SHOWN ON THE OPSD DRAWINGS 705.010 OR 705.020. DOUBLE CATCHBASINS ARE REQUIRED IN VALLEYS.
- 10. SINGLE CATCHBASIN LEADS SHALL BE PVC DR35 PIPE WITH MINIMUM SLOPE OF 1% AND MINIMUM SIZES AS FOLLOWS:
  - b. DOUBLE CATCHBASIN 250mm DIAMETER
    c. REAR LOT CATCHBASIN 250mm DIAMETER
    250mm DIAMETER
- 12. THE FRAME AND GRATE FOR CATCHBASINS SHALL BE OPSD 400.010. CATCHBASIN GRATES SHALL INITIALLY
  BE SET TO BASE ASPHALT AND ADJUSTED TO FINAL GRADE BEFORE PLACEMENT OF TOP ASPHALT...
- 13. REAR LOT CATCHBASIN LEADS TO BE CONCRETE ENCASED FROM THE STREET LINE TO THE CATCHBASIN, PER STANDARD DETAIL WS-401. FRAME AND GRATE TO BE OPSD 400.010.
- 14. WHERE CATCHBASINS ARE CONNECTED DIRECTLY TO SEWERS, PRE-MANUFACTURED TEES SHALL BE USED.
- 15. PARTIAL BULKHEADS ARE REQUIRED AT MANHOLE CONNECTIONS TO EXISTING SEWERS.
- 16. MANHOLE STEPS ARE TO BE SOLID, RECTANGULAR ALUMINUM PER OPSD 405.020.
- 17. "TRENCH PLUGS" AS SPECIFIED BY THE GEOTECHNICAL ENGINEER SHALL BE USED IN THE TRENCH AND PLACED 2 TO 3 METERS UPSTREAM FROM ANY MANHOLE WHICH IS SUSPECTED OF BEING SUSCEPTIBLE TO HIGH WATER LEVELS OF INFLOW/INFILTRATION, SUBJECT TO VERIFICATION BY GEOTECHNICAL ENGINEER.

#### GENERAL NOTES - SANITARY SEWERS

- 1. SANITARY SEWERS SHALL GENERALLY BE LOCATED 1.5m NORTH OR EAST OF THE ROAD CENTER.
- 2. ALL POLYVINYL CHLORIDE (PVC) MAIN LINE SANITARY SEWER PIPE SHALL HAVE WATERTIGHT JOINTS AND MEET CSA STANDARD B182.2, DR35. ALL GASKETTED FITTINGS SHALL BE PVC DR26.
- 3. SEWERS SHALL BE CONSTRUCTED WITH 19mm CRUSHER RUN LIMESTONE BEDDING AS PER OPSD 802.010, AND 802.030, UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL CONSULTANT AND APPROVED BY THE TOWN. IN WATER BEARING SAND, IF EXTENSIVE DEWATERING IS REQUIRED, A CLASS "A" BEDDING CONSISTING OF CONCRETE MAY BE REQUIRED.
- 4. TRENCH BACKFILL APPROVED BY THE GEOTECHNICAL ENGINEER SHALL BE PLACED IN 200mm LIFTS AND COMPACTED TO 95% SPMDD.
- 5. THE MINIMUM DEPTH OF SANITARY SEWERS FROM THE CENTERLINE OF ROAD SHALL BE 2.8m. THE MAXIMUM DEPTH TO THE OBVERT OF SANITARY SEWERS WITH DIRECT SERVICE CONNECTIONS SHALL BE 6.0m. WHERE DEEPER SANITARY SEWERS ARE REQUIRED, LOCAL SEWERS SHALL BE CONSTRUCTED TO PROVIDE FOR DIRECT SERVICE CONNECTIONS.
- 6. INSTALL SEWER DROP CONNECTIONS TO MANHOLES AS PER OPSD 1003.010 AND 1003.020.
- 7. ALL MANHOLE ADJUSTMENT RINGS SHALL BE MADE WATERTIGHT BY PLACING SEALANT BETWEEN ADJUSTMENT RINGS AND WRAPPED ON THE OUTSIDE OF THE STRUCTURE WITH AN APPROVED COMPOSITE MEMBRANE PRIOR TO BACKFILLING.
- 8. MANHOLE JOINTS AND PIPE CONNECTIONS AT MANHOLES ARE TO BE MADE WATERTIGHT WITH AN APPROVED COMPOSTE MEMBRANE WRAP, OVERLAPING JOINTS AND CONNECTIONS BY 0.3m ON THE OUTSIDE OF THE STRUCTURE PRIOR TO BACKFILLING.
- 9. "TRENCH PLUGS" AS SPECIFIED BY THE GEOTECHNICAL ENGINEER SHALL BE USED IN THE TRENCH AND BE PLACED 2 TO 3 METERS UPSTREAM FROM ANY MANHOLE WHICH IS SUSPECTED OF BEING SUSCEPTIBLE TO HIGH WATER LEVELS OF INFLOW/INFILTRATION, SUBJECT TO VERIFICATION BY GEOTECHNICAL ENGINEER.
- MANHOLE TOPS ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE. INTEGRATED FRAME AND COVERS ARE TO BE UTILIZED FOR ALL MANHOLES. GRADE AND CROSSFALL ADJUSTMENT SHALL BE MADE USING PRODUCTS SPECIFICALLY MANUFACTURED FOR THAT PURPOSE.
   PRECAST CONCRETE MANHOLES SHALL CONFORM TO OPSD M701.010 (MODIFIED) FOR 1200mm DIAMETER.
- a. REINFORCED, POURED IN PLACE CONCRETE MANHOLES, ARE SUBJECT TO APPROVAL OF THE TOWN ENGINEER.
- b. SAFETY PLATFORMS ARE TO BE PROVIDED FOR MANHOLES IN ACCORDANCE WITH PROVINCIAL REGULATIONS.
- c. ALL SANITARY MANHOLES TO HAVE BENCHING TO OBVERT PER OPSD 701.021.
- 13. MINIMUM CLEARANCES BETWEEN SERVICES SHALL BE PROVIDED IN ACCORDANCE WITH M.E.C.P. GUIDELINES. MINIMUM CLEARANCE FOR SEWERS IN THE COMMON TRENCH SHALL BE 450mm BETWEEN THE OUTSIDE OF THE BELLS.
- 14. BULKHEADS OR PLUGS ARE REQUIRED IN DOWNSTREAM MANHOLE AT OUTLET FROM DEVELOPMENT, UNTIL THE FIRST OCCUPANCY.
- 15. ALL TESTING OF THE SANITARY SYSTEM IS TO BE COMPLETED IN ACCORDANCE WITH THE "SANITARY SEWER SYSTEM INSPECTION, TESTING AND ACCEPTANCE GUIDELINE" (OCT.2011) AS PREPARED BY THE REGION OF YORK, OR LATEST AMENDMENT THERETO, AND IN ACCORDANCE WITH THE TOWN'S DESIGN GUIDELINES.
- 16. MANHOLE STEPS ARE TO BE SOLID, RECTANGULAR ALUMINUM PER OPSD 405.020.

#### GENERAL NOTES - SEWER SERVICE LATERALS

- 1. SINGLE SANITARY SERVICE LATERAL PIPES SHALL BE 125mm DIAMETER PVC DR28, GREEN IN COLOR. THE SERVICE SHALL BE EXTENDED FROM THE TEST FITTING 1.5m INTO THE LOT WITH A 100mm DIAMETER PVC
- DOUBLE STORM SERVICE LATERAL PIPES SHALL BE 150mm DIAMETER PVC DR 28, WHITE IN COLOR. SINGLE SERVICE PIPES SHALL BE EXTENDED FROM THE WYE TEST FITTING 1.5m INTO EACH LOT WITH 125mm DIAMETER PVC DR28 SERVICE PIPES.
- 3. ELEVATION OF SERVICE CONNECTIONS AT THE STREETLINE IS TO BE 2.5m MINIMUM BELOW FINISHED GRADE. EACH SERVICE PIPE EXTENDED 1.5m INTO EACH LOT SHALL BE TERMINATED WITH A WATERTIGHT PLUG.
- 4. LATERALS SELECTED BY THE TOWN ARE TO BE INSPECTED BY CCTV FROM THE MAINLINE TO THE DWELLING AND A REPORT SUBMITTED TO THE TOWN PRIOR TO OCCUPANCY OF THE DWELLING PER SECTION C6.03 OF THE DESIGN CHINELINES.
- 5. TEST FITTINGS AT STREET-LINE TO BE WATERTIGHT PVC FITTING.
- 6. SERVICE CONNECTION BEDDING SHALL BE 19mm CRUSHER RUN LIMESTONE AND INSTALLED PER MODIFIED OPSD M1006 010

#### GENERAL NOTES - WATER SERVICES

- RESIDENTIAL LOTS WITH LESS THAN 15.2m OF FRONTAGE SHALL HAVE A SINGLE 19mm MINIMUM DIAMETER, TYPE K COPPER WATER SERVICE. WHERE RESIDENTIAL LOT FRONTAGE IS EQUAL TO OR GREATER THAN 15.2m, THE SIZE OF THE WATER SERVICE SHALL BE AS DIRECTED BY THE TOWN.
- 2. SERVICES SHALL BE INSTALLED ACCORDING TO OPSD 1104.010 AND 1104.020.
- 3. WATER SERVICES SHALL BE LOCATED 3.0m FROM THE LOT LINE OPPOSITE THE DRIVEWAY WITH A CURB STOP AT THE STREET LINE AND THE SERVICE SHALL BE EXTENDED 1.5m INTO THE LOT. THE LOCATION OF THE EXTENDED SERVICE INTO THE LOT IS TO BE STAKED WITH 50mm x 100mm WOOD MARKER PAINTED
- 4. THE MINIMUM DEPTH OF COVER IS 1.8m.
- 5. WATER SERVICES SHALL BE INSTALLED WITH 1.2m CLEARANCE TO DRIVEWAYS.
- 6. NO COUPLINGS WILL BE ALLOWED BETWEEN THE CURB STOP AND MAIN STOP.

7. STAINLESS STEEL SERVICE SADDLES SHALL BE USED WHEN TAPPING INTO THE PVC WATERMAIN.

8. A REMOTE READOUT WATER METER WILL BE REQUIRED ON EACH RESIDENCE. MAKE AND MODEL IS TO BE PER TOWN REQUIREMENTS COMPLETE WITH A REMOTE READER LOCATED ON AN OUTSIDE WALL, ADJACENT TO THE HYDRO METER.

# GENERAL NOTES - LOT GRADING

- 1. DRAINAGE SWALES ON RESIDENTIAL LOTS ARE TO OFFSET 0.3m FROM THE PROPERTY LINE. SIDEYARD SWALES ARE TO BE LOCATED ON THE LOW SIDE OF THE LOT AND ONLY ONE SWALE SHALL BE SITED PER
- 2. ALL ROOF LEADERS AND DOWNSPOUTS ARE TO BE DIRECTED TO GRASSED AREAS AND SHALL NOT DISCHARGE TO PAVED OR CONCRETE SURFACES.

# PROJECT SPECIFIC NOTES

- 1. THE FRAME & GRATE FOR CATCHBASINS SHALL BE AS PER OPSD 400.100. CATCHBASIN GRATES SHALL INITIALLY BE SET TO BASE COURSE ASPHALT AND ADJUSTED TO FINAL GRADE BEFORE PLACEMENT OF TOP
- 2. ROOF LEADERS SHALL DISCHARGE TO CONCRETE SPLASH PADS UNLESS OTHERWISE NOTED.
- SANITARY FRAMES AND COVERS SHALL BE WATERTIGHT WHERE SPECIFIED AS PER OPSD 401.030. ALL OTHER FRAMES AND COVERS SHALL BE AS PER OPSD 401010 TYPE 'A'.
- 4. THE LOCATION OF THE WATERTIGHT PLUG FOR EACH SERVICE PIPE SHALL BE STAKED WITH A 50mmx100mm WOOD MARKER PAINTED RED FOR SANITARY AND GREEN FOR STORM.
- WATER SERVICES SHALL BE 2.5m FROM THE LOT LINE OPPOSITE THE DRIVEWAY WITH A CURB STOP AT THE STREET LINE AND A MINIMUM 1.0m CLEAR FROM THE EDGE OF THE DRIVEWAY. LOCATIONS TO BE MARKED WITH A 50mmx100mm WOOD MARKER PAINTED BLUE.

# LIST OF DRAWINGS

## **COVER PAGE**

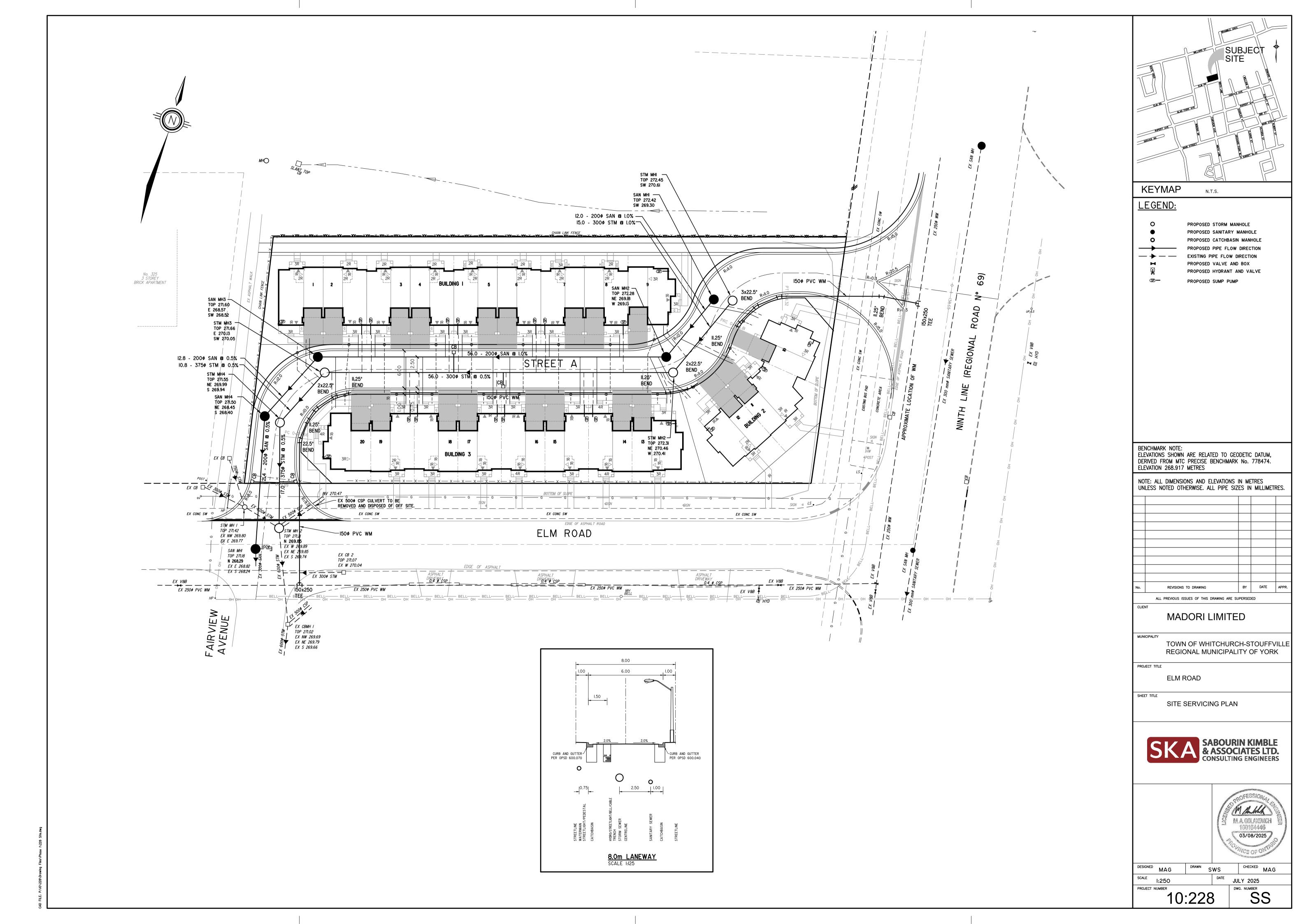
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SG SITE GRADING PLAN
STM STORM DRAINAGE PLAN
SAN SANITARY DRAINAGE PLAN

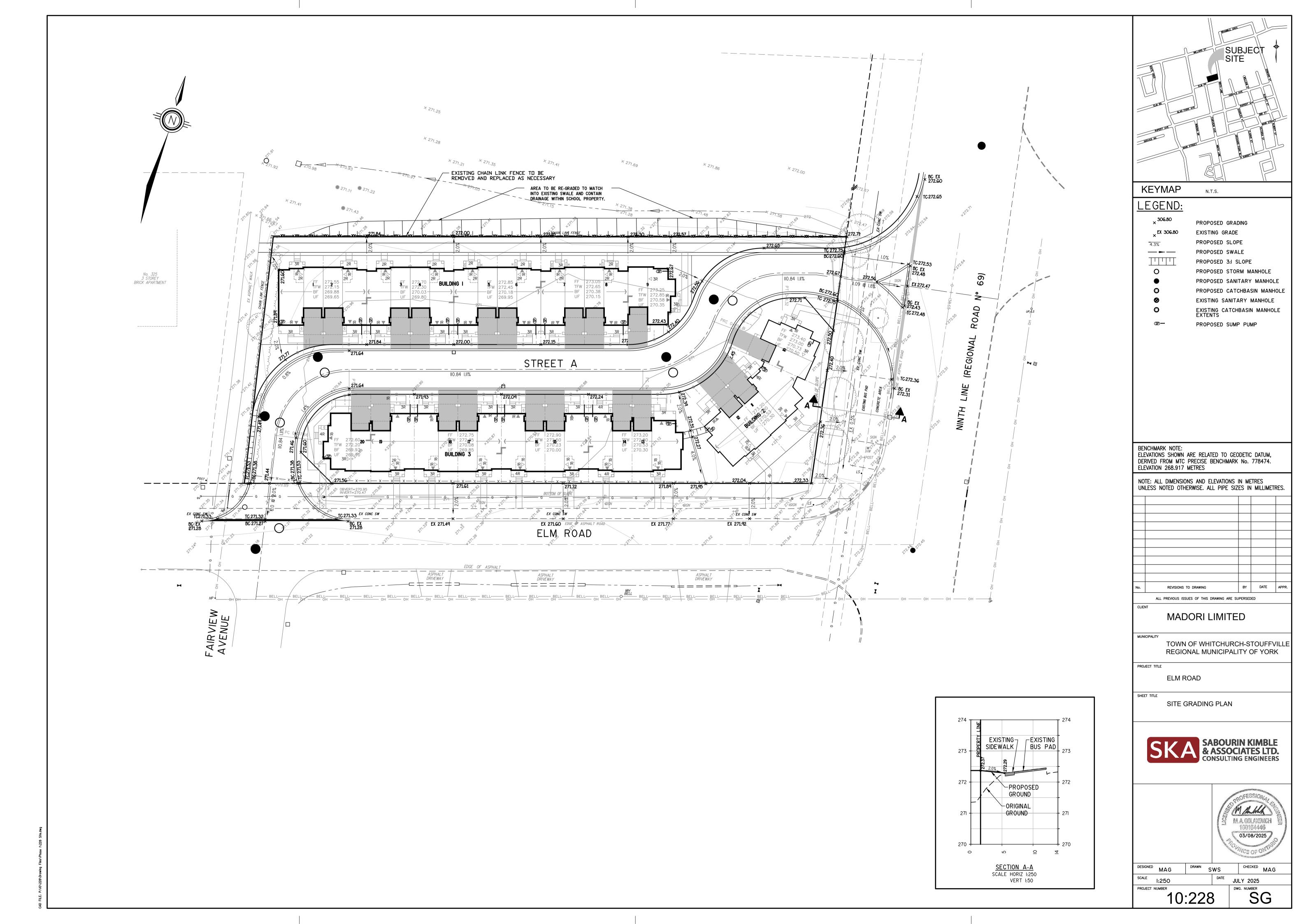
PP STREET A PLAN AND PROFILE
ESC EROSION AND SEDIMENT CONTROL PLAN

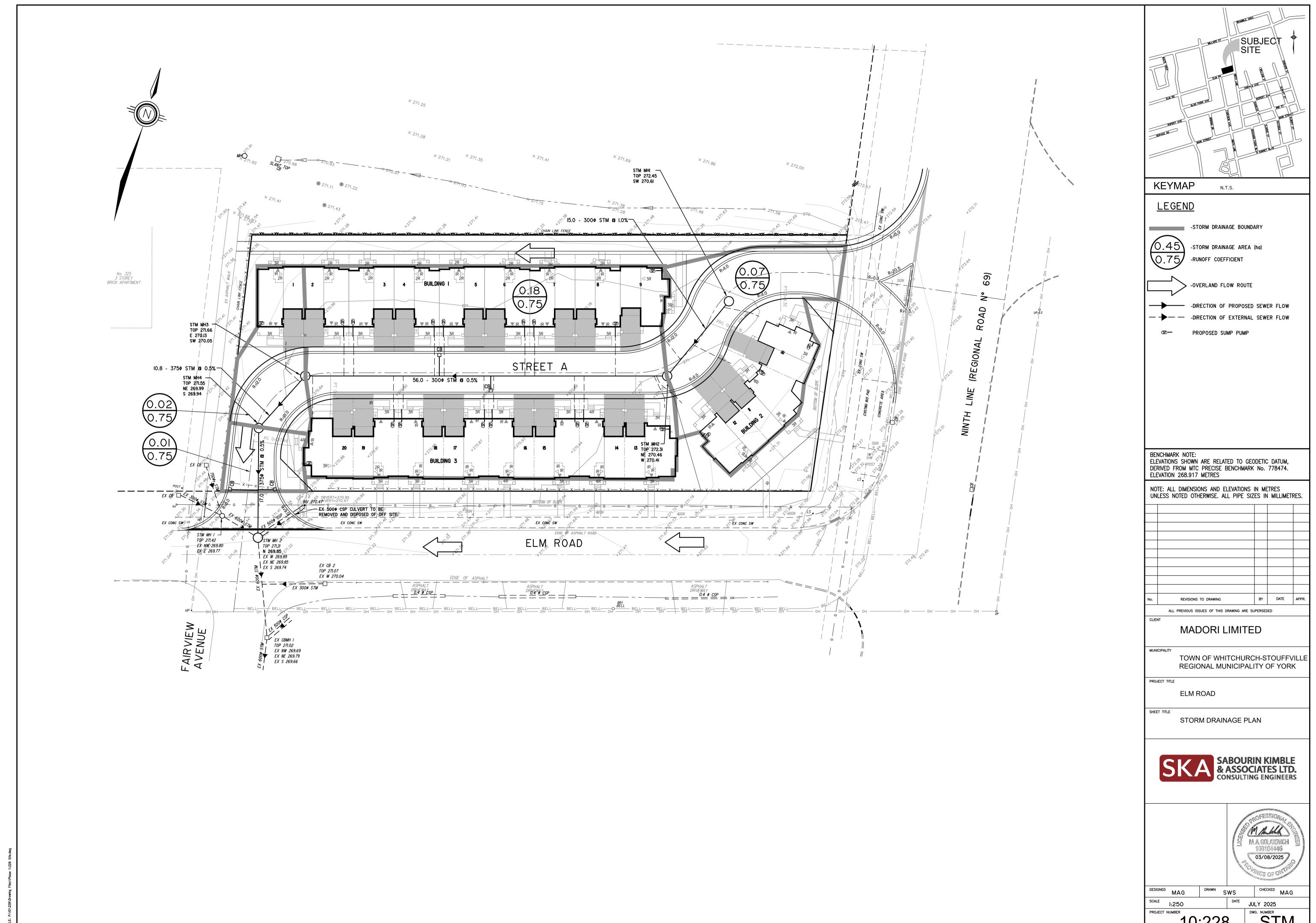
UCD UTILITY COORDINATION PLAN

SICA SABOURIN KIMBLE & ASSOCIATES LTD. CONSULTING ENGINEERS

PROJECT NO. 10:228
JULY 2025

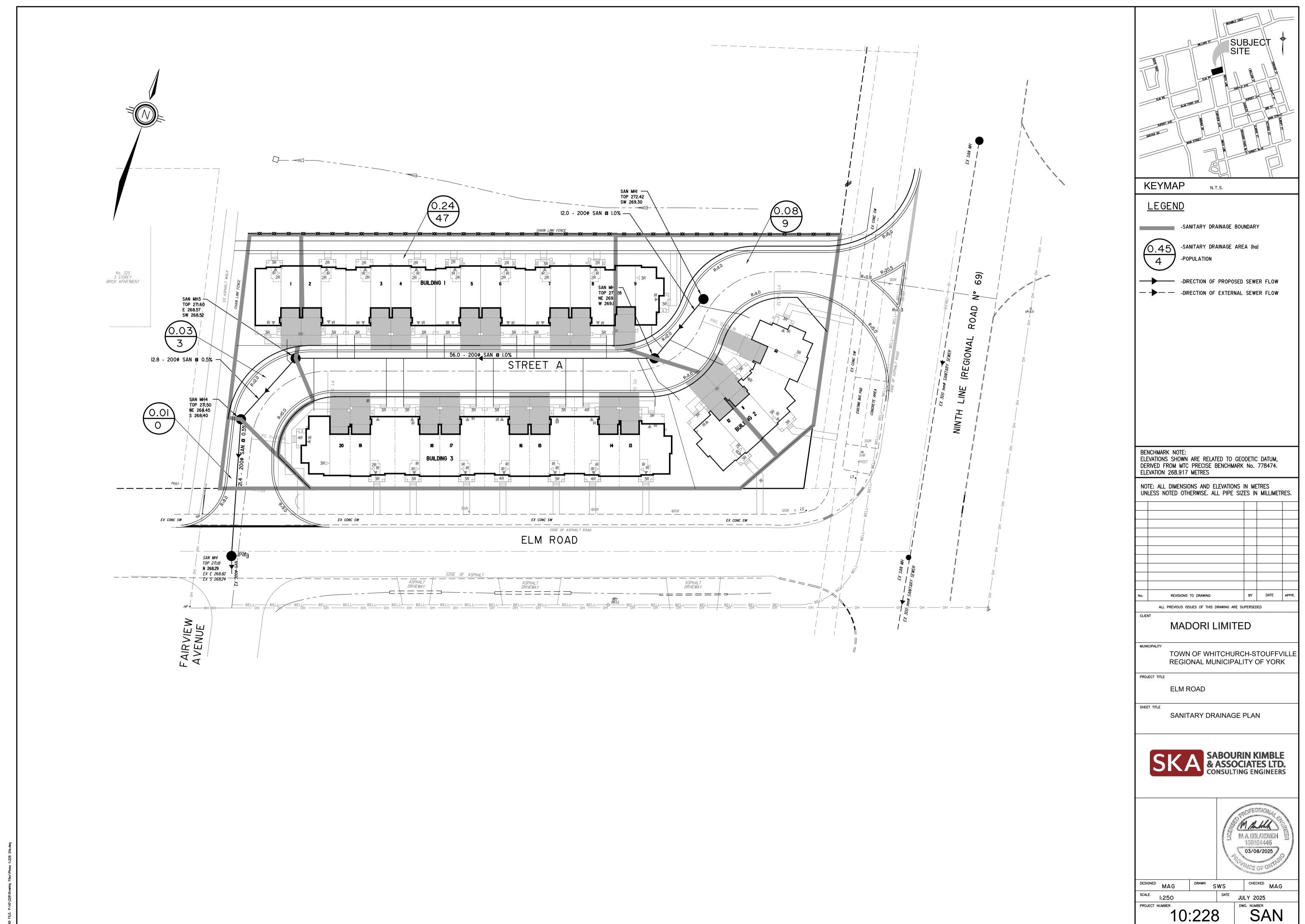


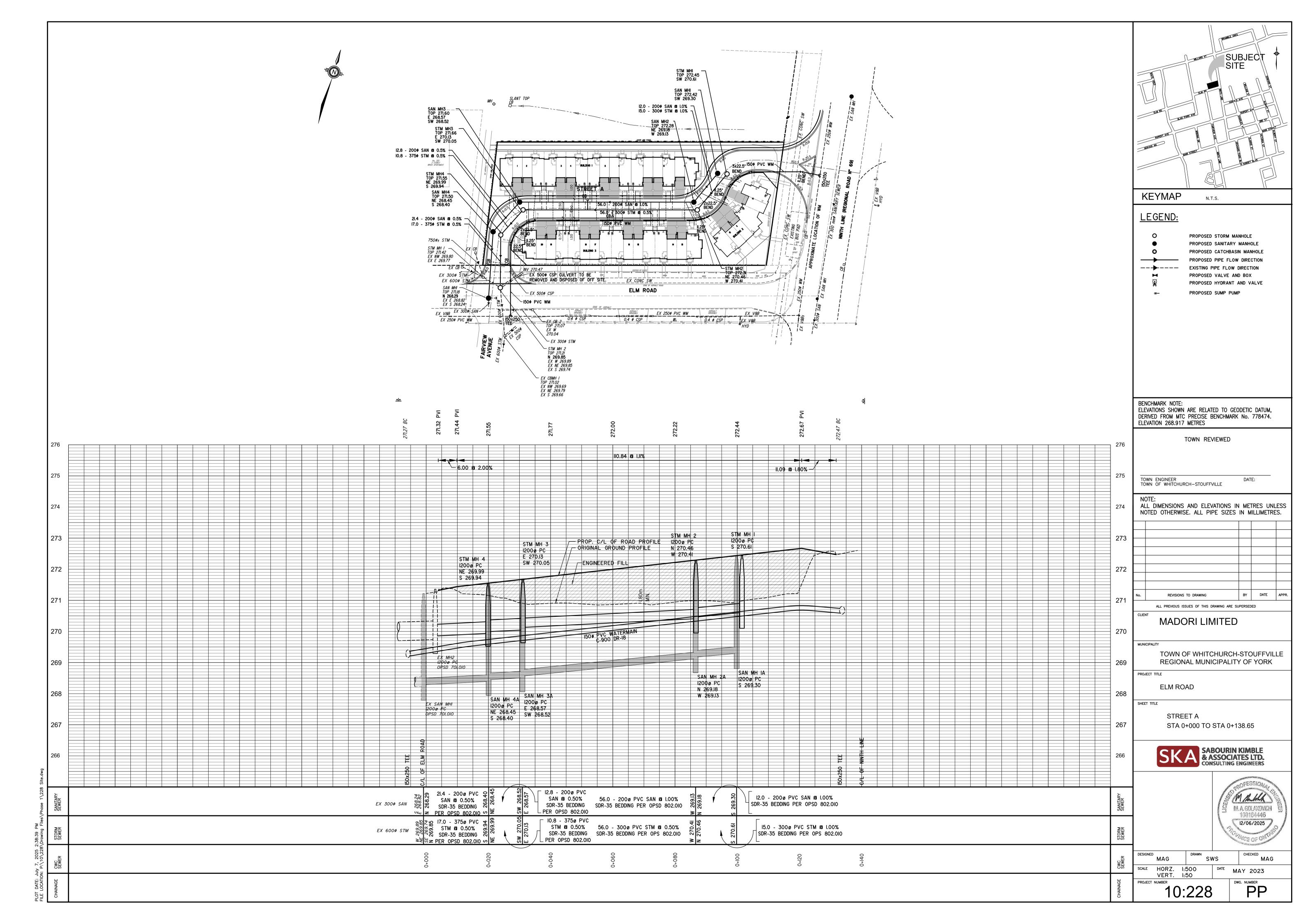


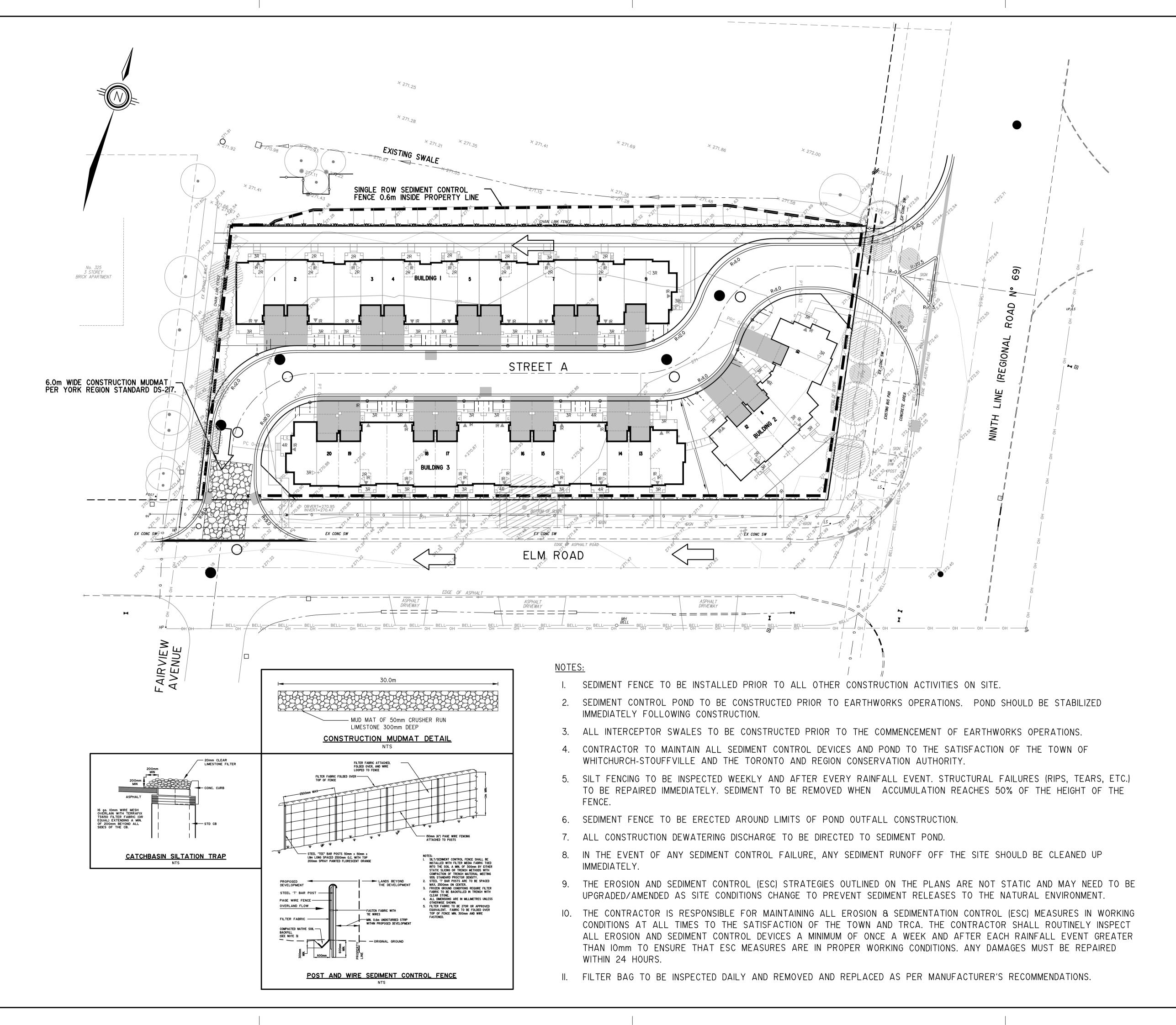


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STM







SUBJECT SITE

KEYMAP

N.T.S.

LEGEND

ORIGINAL GROUND CONTOUR

PROPOSED 3:1 SLOPE

TEN 296.42 INTI

TEMPORARY INTERCEPTOR SWAINTERCEPTOR SWALE GRADE
TEMPORARY ROCK CHECK DAM

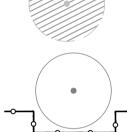
OVERLAND FLOW ROUTE DIRECTION

DETAIL THIS DWG

CATCHBASIN SILTATION TRAP

MUDMAT AS PER

EXISTING TREE TO BE ROMOVED

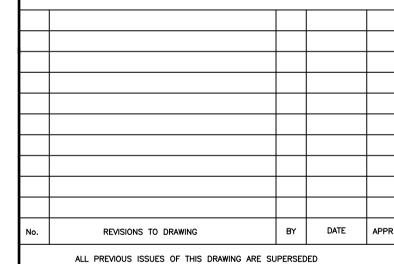


EXISTING TREE TO REMAIN

TREE PRESERVATION FENCE

BENCHMARK NOTE: ELEVATIONS SHOWN ARE RELATED TO GEODETIC DATUM, DERIVED FROM MTC PRECISE BENCHMARK No. 778474. ELEVATION 268.917 METRES

NOTE: ALL DIMENSIONS AND ELEVATIONS IN METRES
UNLESS NOTED OTHERWISE. ALL PIPE SIZES IN MILLIMETRES



MARORILIMITER

MADORI LIMITED

TOWN OF WHITCHURCH-STOUFFVILLE

REGIONAL MUNICIPALITY OF YORK

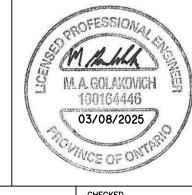
PROJECT TITLE

ELM ROAD

SHEET TITLE

EROSION & SEDIMENT CONTROL PLAN AND DETAILS





DESIGNED MAG

CHECKED MAG

SCALE

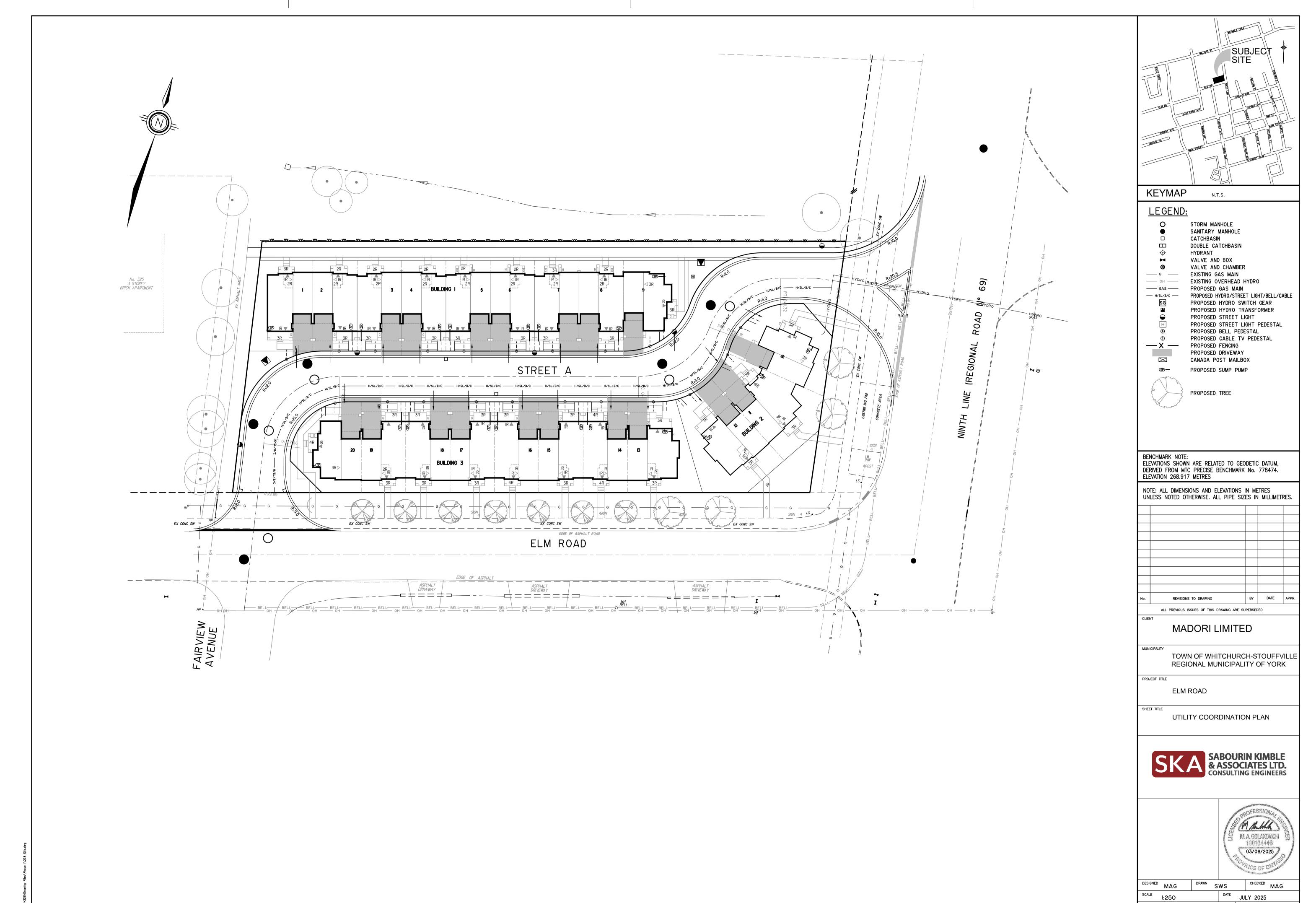
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