

- STANDARD NOTES**
- A. PRIVATE DRAINS**
- CONSTRUCTION OF PRIVATE DRAINS SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS (LATEST EDITION) AND THE MINISTRY OF THE ENVIRONMENT GUIDELINES (LATEST EDITION).
 - PRIVATE DRAINS SHALL BE 1.5M TO THE RIGHT OF THE CENTERLINE OF THE LOT, OR AS DETAILED AND EXTENDED 1.0M BEYOND THE LIMIT OF THE RIGHT-OF-WAY. THE STORM SERVICE SHALL BE INSTALLED TO THE NORTH OR EAST OF THE SANITARY SERVICE.
 - COVER AND BEDDING MATERIAL FOR PRIVATE DRAINS SHALL BE GRANULAR 'A' INSTALLED AS PER OPSD 802.010 OR 802.013.
 - MINIMUM FALL FOR PRIVATE DRAINS SHALL BE 2.0% SLOPE.
 - TOP OF PRIVATE DRAINS AT STREET LINE SHALL BE: 2.2M (MIN) BELOW THE CENTER-LINE OF ROAD ELEVATION AT THAT POINT FOR SANITARY AND STORM. (INVERTS TO BE SET AS PER THE ELEVATIONS NOTED ON THE PLAN.)
 - BUILDING RAIN-WATER LEADERS SHALL NOT BE CONNECTED TO THE STORM PRIVATE DRAIN, BUT SHALL DISCHARGE ONTO THE GROUND SURFACE VIA SPLASH PADS.
 - SUMP-PUMPS WITH CHECK-VALVES SHALL BE INSTALLED IN EACH DWELLING TO PUMP THE BUILDING WEEPING TILES TO THE STORM PRIVATE DRAINS. THE SUMP OUTLET PIPE SHALL EXTEND A MINIMUM OF 150MM ABOVE THE PROPOSED GRADE AT THE DWELLING (BASEMENT CEILING) PRIOR TO DISCHARGING INTO THE STORM PRIVATE DRAIN (REFER TO DETAIL 'A').
 - ON PRIVATE PROPERTY THE MINIMUM COVER FOR SEWER DRAINS IS 1.2m.
 - PVC PIPE WILL REQUIRE SPECIAL PROCEDURES AS PER CITY SPECIFICATIONS. ALL SEWERS TO BE FLUSHED PRIOR TO VIDEO INSPECTION.
 - PVC (SANITARY AND STORM) SEWERS ARE TO BE TESTED FOR DEFLECTION (MANDREL PASSAGE) AFTER INSTALLATION. SANITARY SEWERS SHALL ALSO BE TESTED FOR LEAKAGE (LOW AIR PRESSURE), PRIOR TO ASSUMPTION BY THE CITY, PIPE DEFLECTION TESTING SHALL BE REPEATED.
 - ALTERNATE MATERIALS MAY BE ACCEPTABLE PROVIDED APPROVAL HAS BEEN FIRST OBTAINED FROM CITY/ENGINEER.
 - REAR YARD CATCH BASIN CONNECTIONS TO BE 250MM DIA. PVC PIPE CSA B182.2, SDR-35 UNLESS OTHERWISE NOTED.
 - SEWER DRAINS TO BE INSTALLED WITH A MINIMUM COVER OF 2.20M AT THE PROPERTY LINE BELOW THE FINAL ROAD GRADE OR AT SUCH HIGHER ELEVATION ONLY AS MAY BE NECESSITATED BY THE LEVEL OF THE MAIN SEWER. ON PRIVATE PROPERTY THE MINIMUM COVER FOR SEWER DRAINS IS TO BE NO LESS THAN 1.2m.
 - PRIVATE DRAIN CONNECTIONS TO THE MUNICIPAL SEWER SHALL BE AS PER CITY STANDARD DRAWING SEW-300.
- B. WATER SERVICES**
- CONSTRUCTION OF PRIVATE WATER SERVICES SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS (LATEST EDITION) AND THE MINISTRY OF THE ENVIRONMENT GUIDELINES (LATEST EDITION).
 - WATER SERVICE CONNECTIONS ARE DENOTED BY 'WS' AND SHALL BE 25MM DIAMETER TYPE 'K' SOFT COPPER, AS PER WM207.01 OR AS DETAILED.
 - TO BE LOCATED 1.0M ON THE LEFT SIDE OF THE CENTER LINE OF THE LOT OPPOSITE THE SANITARY PRIVATE DRAIN OR AS DETAILED, WITH CURB-STOP IMMEDIATELY ADJACENT TO THE STREET LINE.
 - GRANULAR BEDDING AS PER WM-200.01 AND WM-200.02 TO BE GRANULAR 'A' AS PER FORM 600.
 - ALL WATER SERVICES TO BE INSTALLED WITH A MINIMUM OF 1.60M COVER.
 - MINIMUM HORIZONTAL SEPARATION BETWEEN WATER SERVICES/MAINS SHALL BE 2.5m MEASURED FROM THE CLOSEST PIPE EDGE TO CLOSEST PIPE EDGE. VERTICAL SEPARATION WHERE WATER SERVICES/MAINS PASSES OVER A SEWER DRAIN OR MUNICIPAL SEWER MAIN MUST BE A MINIMUM OF 0.25m UNLESS GREATER SEPARATION IS REQUIRED TO PROVIDE FOR PROPER BEDDING AND STRUCTURAL SUPPORT. WATER SERVICES/MAINS PASSING UNDER SEWER DRAINS OR MUNICIPAL SEWER MAINS MUST HAVE A SEPARATION ON 0.5M BETWEEN THE INVERT OF THE SEWER MAIN, DRAIN AND THE CROWN OF THE WATER SERVICE/MAIN.
- C. SURFACE WORKS**
- 1.5M CONCRETE SIDEWALK AS PER HAMILTON STANDARD DRAWING RD-103 (125MM THICKNESS, MIN. 30 MPA STRENGTH WITH GRANULAR 'A' BASE AS REQUIRED TO PROVIDE A LEVELLING COURSE FOR THE CONCRETE. AT DRIVEWAYS CONCRETE DEPTH TO BE 175MM.
 - DRIVEWAY APRONS SHALL BE CONSTRUCTED TO MATCH THE EXISTING STREET, WITH 150MM GRANULAR 'A' BASE COMPACTED TO 98% SPD, WITH 125MM CONCRETE PLACED ON 50MM KEY AT REAR OF CURB, AS PER CITY STANDARD DRAWING RD-106.
 - ROAD RESTORATION WITHIN CUTS FOR SERVICE INSTALLATIONS SHALL BE AS PER RD-100.01. GRANULAR 'A' SHALL BE USED TO MATCH EXISTING DEPTH OF GRANULAR WITHIN ROADWAY.
 - ASPHALT RESTORATION WITHIN THE MUNICIPAL ROAD SHALL INCLUDE BASE COURSE OF 80MM SUPERPAVE 19.0 AND TOP COURSE OF 40MM SUPERPAVE 9.5 (TRAFFIC CATEGORY C), PG 58-28 ASPHALT CEMENT.
 - BOULEVARD AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITH MIN. 100MM DEPTH TOPSOIL AND SOD.
- D. COMPACTION REQUIREMENTS**
- ALL BEDDING AND BACKFILL MATERIAL, ROAD SUB-GRADES AND GENERALLY ALL MATERIAL USED FOR LOT GRADING, FILL SECTIONS ETC. SHALL BE COMPACTED TO MINIMUM 100% SPD UNLESS OTHERWISE RECOMMENDED BY TECHNICAL ENGINEER BY A NEER.
 - ALL MATERIALS SHALL BE PLACED IN LIFTS NOT EXCEEDING 300MM IN DEPTH.
 - ALL GRANULAR ROAD BASE MATERIALS SHALL BE COMPACTED TO 100% SPD.
- E. REAR-YARD CATCH BASINS**
- RYCB SHALL BE AS PER OPSD 705.010, WITH BEEHIVE STYLE IRON GRATE CONFORMING TO OPSD 1850 & OPSD 417 (REF. OPSD 400.120).
 - RYCB LEAD SHALL BE 250MM DIAMETER PVC SDR-28, CSA B182.2, CONSTRUCTED WITH GRANULAR 'A' COVER AND BEDDING MATERIAL AS PER OPSD 802.010 OR 802.013.



KEY PLAN N.T.S.

BENCHMARK NOTE:
ELEVATION = 248.131 (CGVD-1928)
MONUMENT: 0011975U132

PUMPING STATION, WILSON STREET AT SEMINOLE ROAD, TABLET IN TOP OF CONCRETE WELL 27.4m SOUTHEAST OF CENTRELINE OF WILSON STREET, 18.0m NORTHEAST OF CENTRELINE OF SEMINOLE ROAD, 15.2m SOUTHEAST OF HYDRO POLE, 8.2m SOUTHWEST OF CORNER OF PUMP HOUSE.

SITE BENCHMARK:
ELEVATION = 251.07m
CUT-STAR IN MUNICIPAL SIDEWALK ON EAST SIDE OF FIDDLER'S GREEN ROAD AT SITE FRONTAGE AS INDICATED ON PLAN.

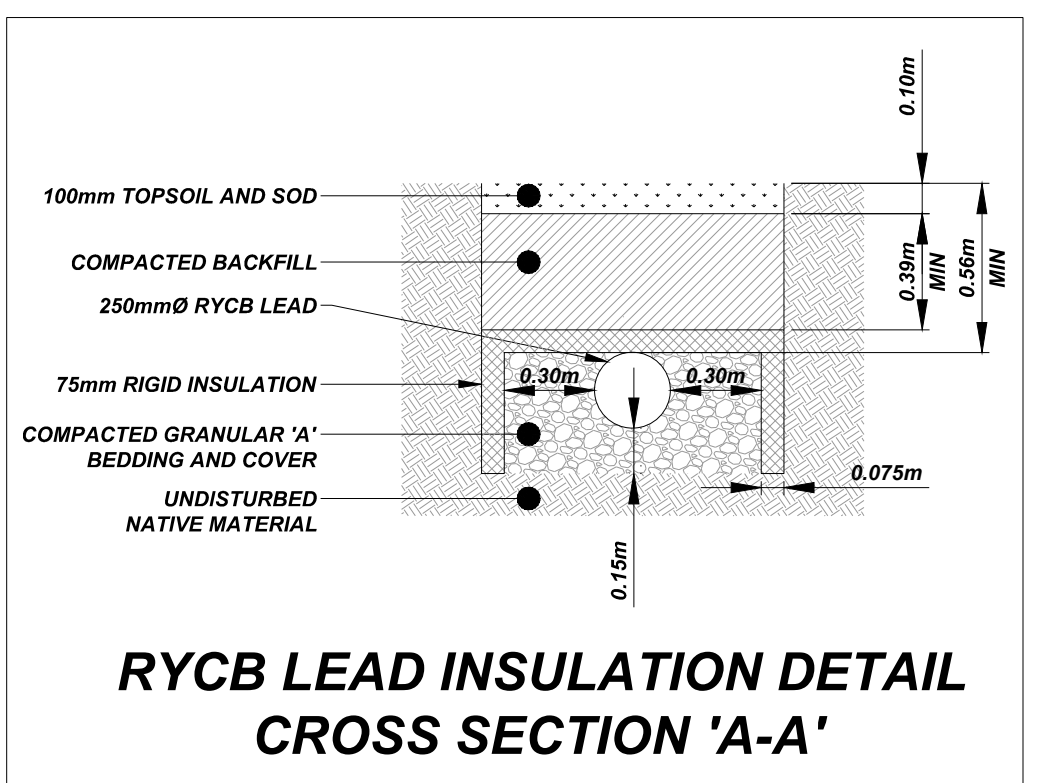
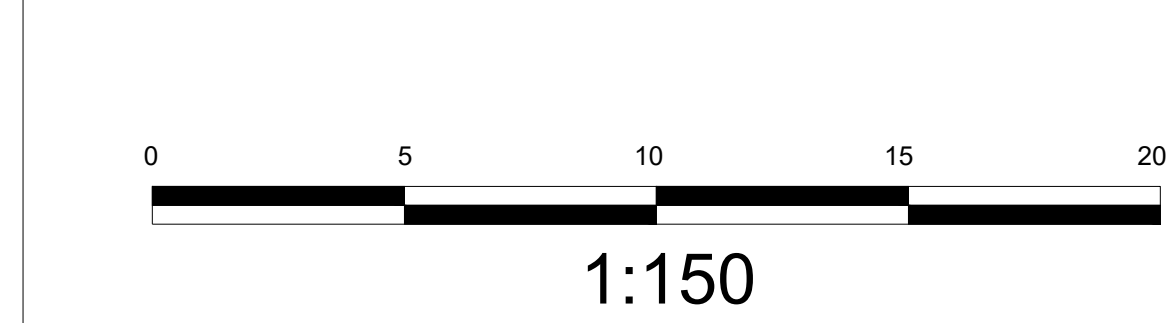
- GENERAL NOTES:**
- TENDERER SHALL SATISFY THEMSELVES AS TO THE NATURE OF THE GROUND AND BID ACCORDINGLY.
 - ALL ROCK LINE INDICATIONS SHOWN ON THE PLAN MUST BE VERIFIED BY THE CONTRACTOR.
 - CONTRACTOR SHALL VERIFY LOCATIONS AND INVERTS OF ALL EXISTING SANITARY AND STORM SEWERS AND WATERMAINS, PRIVATE DRAINS AND WATER SERVICES, GAS MAINS, CABLE TV, HYDRO AND TELEPHONE DUCTS ETC AT START OF CONSTRUCTION.

NO.	DATE:	DESCRIPTION:
4	2023-08-08	REVISED PER NEW SITE PLAN
3	2023-03-06	REVISED RYCB LEAD PER CITY COMMENTS
2	2023-02-27	REVISED RYCB LEAD PER CITY COMMENTS
1	2023-01-27	REVISED PER CITY 1ST ROUND COMMENTS
0	2022-12-07	FIRST SUBMISSION

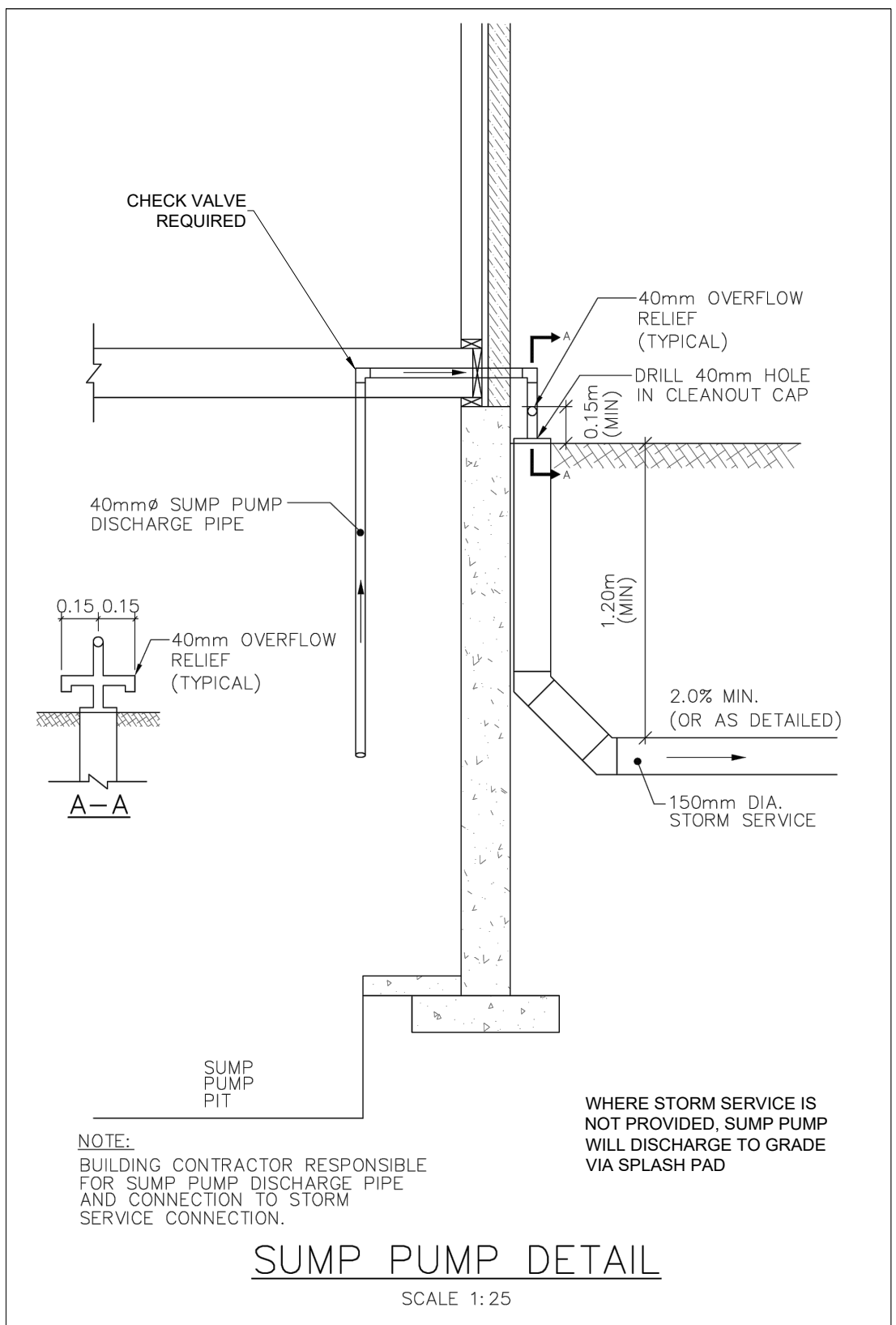
REVISIONS

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CLIENT:	ZEINA HOMES	
MUNICIPALITY:	CITY OF HAMILTON	
PROJECT NAME:	382 SOUTHCOTE RD. NO. AN/B-22:59	
TITLE:	SERVICING PLAN	
SCALE:	1:150	DATE: 2023-03-08
CHECKED BY:	AK	DESIGNED BY: DH
DWG No:	22054ZEI	SHEET No: S1



ID	INVERT	OBVERT	SEPARATION
1	246.69 (WM)	246.54 (STM)	0.15m
2	246.69 (WM)	244.87 (SAN)	1.82m
3	246.55 (STM)	244.40 (SAN)	2.15m
4	246.68 (WM)	246.44 (STM)	0.24m
5	246.66 (WM)	246.45 (STM)	0.21m
6	246.66 (WM)	245.19 (SAN)	1.47m
7	246.14 (STM)	244.86 (SAN)	1.28m
8	246.61 (WM)	246.35 (STM)	0.26m
9	246.61 (WM)	245.20 (SAN)	1.41m
10	246.14 (STM)	244.93 (SAN)	1.21m



ROOFWATER LEADERS
ROOFWATER LEADERS FOR ALL LOTS SHALL DRAIN ONTO THE GROUND VIA CONCRETE SPLASH PADS, AND THEN TO GRASSED AREAS AT LEAST 0.60m FROM THE DWELLING FACE.

FOUNDATION DRAINS
WEEPING TILES SHALL DRAIN TO SUMP PIT AND BE PUMPED TO GRADE VIA SUMP PUMP WITH BACK-FLOW PREVENTOR (HP PUMP WITH BACK-UP POWER SOURCE)

NOTES:

- LOCATIONS UNDERGROUND SERVICES ARE APPROXIMATE AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- ANY DISCREPANCIES BETWEEN SERVICE LOCATIONS AND THESE ENGINEERING DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER.