

EGAN AVENUE MULTI FAMILY BLOCK

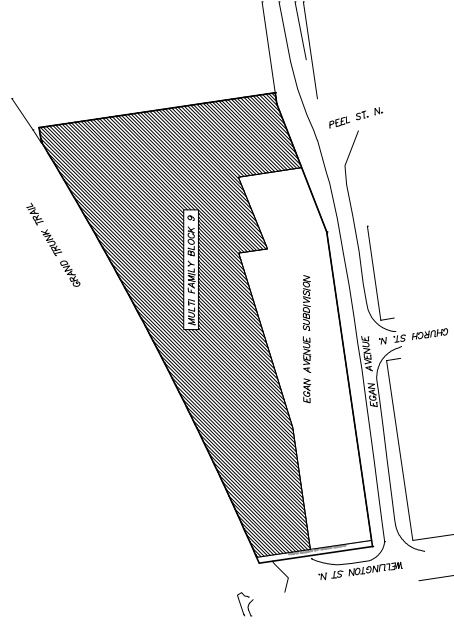
SERVICING DRAWINGS
FOR THE DEVELOPMENT LOCATED IN THE
TOWN OF ST. MARYS, COUNTY OF PERTH



LIST OF DRAWINGS:

- T01 - 1 of 7 - TITLE PAGE
- MFSPO1 - 2 of 7 - SPECIFICATIONS AND DETAILS
- MF01 - 3 of 7 - MULTI FAMILY BUILDING LAYOUT
- MF02 - 4 of 7 - BLOCK 9 GRADING PLAN
- MF03 - 5 of 7 - BLOCK 9 SERVICING PLAN
- MF04 - 6 of 7 - BLOCK 9 ROAD CROSS-SECTIONS
- MFE01 - 7 of 7 - BLOCK 9 ELECTRICAL SERVICING

CLIENT:
LANG CONTRACTING
54 CRAWFORD ST.
STRATFORD, ON
N5A 5Y4



JOHNSON ENGINEERING CONSULTANTS

STRUCTURAL - CIVIL - MUNICIPAL - ENVIRONMENTAL
INDUSTRIAL SAFETY - AGRICULTURAL - AUTOMATION

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SUBMISSION #4	AUG. 17, 2020
SUBMISSION #3	APRIL 24, 2020
SUBMISSION #2	JULY 29, 2019
SUBMISSION #1	OCTOBER 4, 2018

JEC No. 20160057

REVISION: SUBMISSION 4, AUGUST 17, 2020

NOTES:
GENERAL

- ALL WORK WILL CONFORM TO O.P.S.D. AND O.P.S.D.
- ENGINEER WILL CONDUCT VISUAL INSPECTION OF ALL WORK AT ALL TIMES FOR FIELD REVIEW
- DURING ALL SERVICES CONSTRUCTION
- ALL PHASES OF CONSTRUCTION
- THE PROJECT ENGINEER WILL BE NOTIFIED BY THE OWNER
- COMPLETED WORK CAN BE REVIEWED FOR ACCEPTANCE AND
- RECORDS FOR "AS BUILT" DRAWINGS
- ENGINEER AND THE TOWN OF ST. MARYS (ON BEHALF OF THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING LOCATIONS
- TO THE OWNER OF CONSTRUCTION

ROAD CONSTRUCTION

- ALL ORGANIC OR UNSUITABLE MATERIAL BENEATH THE ROAD
- ALLOWANCE MUST BE REMOVED AND THESE AREAS
- SLOTTING OF THE ROAD SURFACE SHALL BE INSTALLED TO THE
- SATISFACTION OF THE CONTRACT ADMINISTRATION
- EXISTING ASPHALT SURFACES TO BE REPAIRED AND MADE
- SHOWN ON PLANS
- A MIN. OF 80% PROCTOR DENSITY (S.P.D.) IS REQUIRED IN
- SUBGRADE MATERIAL
- BEST PROCTOR DENSITY (S.P.D.) IS REQUIRED FOR GRANULAR
- ACCORDANCE WITH THE ROAD CROSS SECTION DETAIL.
- THE NEW ROAD SECTIONS SHALL BE CONSTRUCTED IN
- A TACK COAT ("COULAS") IS TO BE APPLIED TO THE ENTIRE
- BASE ASPHALT SURFACE PRIOR TO TOP COAT APPLICATION
- A TACK COAT ("COULAS") IS TO BE APPLIED TO THE ENTIRE
- GRADE AND BE BASED WITH MODULOC RESSES IMMEDIATELY
- PRIOR TO TOP COAT APPLICATION.

SIDEWALKS IN ROAD RIGHT-OF-WAYS

- SIDEWALKS ARE TO BE 1.50m WIDE OF 140mm THICK
- CONCRETE ON A 100mm THICKNESS OF COMPACTED
- 10:10:90 SAND IN ACCORDANCE WITH O.P.S.D.
- CONCRETION 30 MRS USING AS STONE (MAX DESIGN TO BE
- ENHANCEMENT WITH BROOM FINISH
- ALL SIDEWALKS TO HAVE A MINIMUM 2% CROSS
- SLOPE AWAY FROM THE ROAD
- CENTRELINE GRIDS AND PROPERTY LINES
- WITH O.P.S.D. 10:10:90 SAND (CONSTRUCTION LINES)
- LOCATIONS AS SHOWN ON THE CONSTRUCTION DRAWINGS

BOULEVARDS

- TORSION TO CLASS R02 WITH A MIN. THICKNESS OF
- TREATMENT (O.P.S.S. 802) FROM THE BACK OF CURB TO
- THE MINIMUM CROSSFALL SHALL BE 2% FROM THE BACK OF
- THE CURB TO THE SIDEWALK (TO THE PROPERTY LINE IF NO
- SIDEWALK) WITH A MINIMUM CROSSFALL SHALL BE 0% FROM
- THE OUTER LINE

CURB AND GUTTER

- EXISTING CURB AND GUTTER DISTURBED AS A RESULT OF
- TYPE OF CURB
- ALL CURB AND GUTTER INSTALLED WITHIN THE NEW COAT
- SHALL BE 800.000 MANHOLE CURB, AND CONSTRUCTED
- PRIOR TO PAVEMENT (MAX DESIGN TO BE PROVIDED
- EXPANSION JOINTS SHALL BE PLACED AT END OF CURVED
- METRES (MINIMUM SPACING IN ACCORDANCE WITH O.P.S.S. 803

DRIVEWAY RAMPS

- ONE RAMP PER DWELLING UNIT IS REQUIRED IN
- GOVERNED BY SITE PLAN CONTROL
- APPROACHES ARE TO BE INSTALLED FROM THE CURB TO
- THE PROPERTY LINE OR WHERE SIDEWALKS ARE LOCATED,
- DRIVEWAY DESIGN SHALL BE ONE OF THE FOLLOWING:
- 1) 140mm CONCRETE PLACED ON A MINIMUM COMPACTED
- (70 LAYERS) ON A MINIMUM COMPACTED DEPTH OF 200mm
- 2) INTERLOCKING PAVING STONES Laid ON A BASE
- 3) INTERLOCKING PAVING STONES Laid ON A BASE
- 4) INTERLOCKING PAVING STONES Laid ON A BASE
- 5) INTERLOCKING PAVING STONES Laid ON A BASE

STORM SYSTEM

- ALL WATER MAINS SHALL BE IN ACCORDANCE
- WITH O.P.S.D. 701.010 WITH MONOLITHIC BASE
- 1200mm C.P. 701.010 WITH MONOLITHIC BASE
- SERVICE CONNECTIONS TO BE AS PER O.P.S.D. 1104.01
- ALL SERVICE MANHOLES TO BE BROAD BAND STAINLESS
- SERVICES TO BE 20mm (OR # AS NOTED) MANHOLE
- PLASTIC TUBING CERTIFIED TO CSA B137.5 WITH TRAKER
- WIRE SINGLE LENGTH FROM MAN TO CURB STOP
- CURB STOPS TO BE 20mm CANADA FORD, CAMBRIDGE
- BRASS OR MELLER BALL VALVE, COMPRESSION TYPE
- CONNECTION AS PER TOWN OF ST. MARYS WATER
- CURB BOX SERVICE ROADS TO BE STAINLESS STEEL C/W
- STAINLESS STEEL COTTER PIN

SANITARY SYSTEM

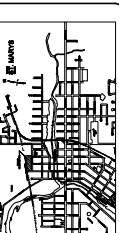
- 1200mm MAINTENANCE HOLES SHALL BE IN ACCORDANCE
- WITH O.P.S.D. 701.010 WITH MONOLITHIC BASE
- MAINTENANCE HOLE BENCHING SHALL BE IN ACCORDANCE
- WITH O.P.S.D. 701.010 WITH MONOLITHIC BASE
- ALL MAINTENANCE HOLES TO BE COMPLETELY PARDED
- SANITARY MAINS ARE TO BE PVC SDR 35 WITH SLOPES AS
- SHOWN ON THE CONSTRUCTION DRAWINGS
- WITH O.P.S.D. 1004.02
- SANITARY SERVICES ARE TO BE 125mm P.V.C. S.D.R. 28
- WITH O.P.S.D. 1004.02
- SANITARY SERVICES SHALL BE IN ACCORDANCE WITH O.P.S.D.
- 401.01 (B) UNLESS OTHERWISE NOTED.
- ALL SERVICE STUBS ARE TO BE PROVIDED WITH THE
- BEDDING (GENERAL)
- 1) OR O.P.S.D. 802.014 FOR FLEXIBLE PIPE AND O.P.S.D.
- 802.030 CLASS B OR O.P.S.D. 802.034 CLASS B FOR RIGID
- PIPE (BUT IS TO BE SHED TO RESUME THE LOWEST
- SEGMENT OF PIPE
- OUTSIDE DIAMETER OF PIPE IS NOT TO INCLUDE BELL
- TOP OF THE PIPE SHALL BE MAINTAINED TO THE LABEL OF THE
- BEDDING TO BE FORM CLEAR STONE TO SPRING LINE OF
- PIPE AND SAND BEDDING TO 500mm ABOVE PIPE
- WHERE THE TRENCH IS SLOPED, TRENCH WIDTH WILL BE
- DEFINED AS THE DISTANCE BETWEEN THE FACES OF THE
- SHEETING. THIS STANDARD IS TO BE APPLIED IN STABLE
- A STABLE CONDITION.

WATER DISTRIBUTION SYSTEM

- ALL WATER DISTRIBUTION SYSTEM INSTALLATION SHALL BE IN
- ACCORDANCE WITH CURRENT TOWN OF ST. MARYS GENERAL
- SERVICES AGREEMENT, THE PLUMBING CODE, AND THE
- A.P.W.A.
- THE DEPTH OF COVER IS TO BE A MINIMUM OF 7m WITH
- (UNLESS OTHERWISE APPROVED BY THE TOWN OF ST.
- MARYS)
- ALL PVC WATER MAINS TO HAVE 1571 STRAND TRAKER
- WIRE WITH TYP. INSULATION. PLACED FULL LENGTH OF
- INSTALLED PVC WATER MAIN AND BROUGHT UP AT EACH MAN
- HOLES TO THE EXTERIOR SIDE OF THE APURANCE
- BY MELLER, MODEL No. F-1000 BY FORD, OR CAMBRIDGE
- JOINT OUTLET
- FITTINGS TO BE DUCTILE IRON AND MECHANICAL JOINT ONLY
- VALVES TO BE 250mm GATE TYPE AND 150mm GATE TYPE
- SPECIFICATIONS
- ALL MAN VALVES MUST BE MECHANICAL JOINTS AND OPEN
- VALVE RODS TO BE CANADA VALVE OR APPROVED EQUAL
- ST. MARYS WATER SPECIFICATIONS
- EQUIVALENT COMPLETE WITH PLANNED HOSE, 2000 OR BERRY
- CONNECTIONS AND 35-9 THE PUMPER CONNECTIONS SHALL
- BE YELLOW. UPPER BARREL COLLAR SHALL BE 150mm
- ABOVE FINISHED GRADE
- HYDRANT VALVES ARE REQUIRED ON EACH LOCATION.

DRAINAGE NOTES

1. SURFACE DRAINAGE SHALL BE CARRIED AWAY FROM THE BUILDINGS.
2. SURFACE DRAINAGE WHICH IS DIRECTED AROUND HOUSES IS TO BE CONFINED IN SWALES LOCATED AS FAR FROM THE HOUSE AS POSSIBLE.
3. DRAINAGE APRONS ARE TO BE THE STEEPER OF A 6% SLOPE AWAY FROM THE BUILDING OR 0.15m VERTICALLY.
4. GRADING FROM BUILDING TO SIDE LOT LINE:
 - 4.1 HORIZONTAL TO 1 VERTICAL
 - 4.2 STEEPER OF 2% OR 0.15m VERTICALLY



LEGEND

- 1.5% SLOPE (CONCRETE)
- 2.0% SLOPE (GRAVEL)
- 3.0% SLOPE (GRAVEL)
- 4.0% SLOPE (GRAVEL)
- 5.0% SLOPE (GRAVEL)
- 6.0% SLOPE (GRAVEL)
- 7.0% SLOPE (GRAVEL)
- 8.0% SLOPE (GRAVEL)
- 9.0% SLOPE (GRAVEL)
- 10.0% SLOPE (GRAVEL)
- 11.0% SLOPE (GRAVEL)
- 12.0% SLOPE (GRAVEL)
- 13.0% SLOPE (GRAVEL)
- 14.0% SLOPE (GRAVEL)
- 15.0% SLOPE (GRAVEL)
- 16.0% SLOPE (GRAVEL)
- 17.0% SLOPE (GRAVEL)
- 18.0% SLOPE (GRAVEL)
- 19.0% SLOPE (GRAVEL)
- 20.0% SLOPE (GRAVEL)
- 21.0% SLOPE (GRAVEL)
- 22.0% SLOPE (GRAVEL)
- 23.0% SLOPE (GRAVEL)
- 24.0% SLOPE (GRAVEL)
- 25.0% SLOPE (GRAVEL)
- 26.0% SLOPE (GRAVEL)
- 27.0% SLOPE (GRAVEL)
- 28.0% SLOPE (GRAVEL)
- 29.0% SLOPE (GRAVEL)
- 30.0% SLOPE (GRAVEL)
- 31.0% SLOPE (GRAVEL)
- 32.0% SLOPE (GRAVEL)
- 33.0% SLOPE (GRAVEL)
- 34.0% SLOPE (GRAVEL)
- 35.0% SLOPE (GRAVEL)
- 36.0% SLOPE (GRAVEL)
- 37.0% SLOPE (GRAVEL)
- 38.0% SLOPE (GRAVEL)
- 39.0% SLOPE (GRAVEL)
- 40.0% SLOPE (GRAVEL)
- 41.0% SLOPE (GRAVEL)
- 42.0% SLOPE (GRAVEL)
- 43.0% SLOPE (GRAVEL)
- 44.0% SLOPE (GRAVEL)
- 45.0% SLOPE (GRAVEL)
- 46.0% SLOPE (GRAVEL)
- 47.0% SLOPE (GRAVEL)
- 48.0% SLOPE (GRAVEL)
- 49.0% SLOPE (GRAVEL)
- 50.0% SLOPE (GRAVEL)

No.	DATE	NAME	DESCRIPTION
1	20/07/2016	RF	GENERAL REVISIONS
2	20/07/2016	RF	GENERAL REVISIONS
3	17/08/2016	RF	ADDED PARALLEL TO YARDWAY
4	17/08/2016	RF	REMOVED TO YARDWAY
5	17/08/2016	RF	REMOVED TO YARDWAY

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TOWN OF ST. MARYS
175 QUEEN STREET EAST,
ST. MARYS, ON.
N4X 1B6

EGAN MULTI FAMILY BLOCK 9
ST. MARYS, ON.

NOTES AND SPECIFICATIONS
SCALE: 1:500
DATE: OCTOBER 14, 2016
DRAWN BY: BRUN JOHNSON, P. ENG.
CHECKED BY: J. JOHNSON
DATE: 22 OCT 2016

MFSP01 2 of 7

