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	COLONY TRAIL BOULEVARD	HILOR	r-SITE			
	CRESC.	He MO	UNIT ALBERT ROAD	STEC	SMAN ROAD	٨
	Littos	LAND RIVER BOULEVARD	PLANK ROAD PECCIS CRESCENT	GRIST MILL ROAD	RED MILLS DRIVE	
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	PROPOSED STORM PROPOSED PERFOR PROPOSED NOISE E	MANHOL RATED ST BARRIER	E TORM ACCESS	HATC	н 🍥	_
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	SITE PLAN HEMAN SHIH ARCHI 26 TRISH DRIVE, RIC tel: (905) 773-8304	INFOR	RMATION ;. HILL, ON L4E (	<u>V</u> 5C5		
	fax: (905) 773-2716 web: www.hemanshih	n.ca FORM	<u>1ATION</u>			
	LLOYD & PURCELL I 1228 GORHAM STRE tel: (905) 895-6416 fax: (905) 853-5837	LTD. EET, UNIT	28, NEWMAR	KET, OI	N L3Y 8Z1	
			BIGN			
	1255 BAY STREET, S the: (416) 975-1556 web: www.planpart.ca	SUITE 500 a <b>? K</b>	, TORONTO, C	N M5R	2A9	
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	© COPYRIGHT 2023	UD	)22-06 <sup>-</sup>	1	SG-	)1 01



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COLONY TRAIL BOULEVARD	SITE
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© 2023 GOOGLE, MAP DATA © LOCATION SCALE:1:10	© 2023 TELE ATLAS PLAN ,000
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SITE PLAN INFORMAT HEMAN SHIH ARCHITECT INC. 26 TRISH DRIVE, RICHMOND HILL, ON	<b>TION</b> NI 4E 5C5
20 TRISE DRIVE, NOTING 12, 12 tel: (905) 773-8304 fax: (905) 773-2716 web: www.hemanshih.ca	N L4E 505
SURVEY INFORMATIC LLOYD & PURCELL LTD. 1228 GORHAM STREET, UNIT 28, NEV tel: (905) 895-6416	DN_ VMARKET, ON L3Y 8Z1
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THE PLANING PARTNERSHIP 1255 BAY STREET, SUITE 500, TORON the: (416) 975-1556 web: www.planpart.ca	NTO, ON M5R 2A9
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	N. MOUTZOURIS 100176986
	12/18/2024
	12/18/2024
	WILLIMBURY E #SP.20.E.0272
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REGION OF YORK FIL EROSION CONS SOUTH RESIDENTIAL USE DA 464 MOUNT ALBE TOWN OF EAST GWILLIN EAST GY ENGINEER 150 Bermondsey Road, TO DESIGNED BY: AG DATE: JULY DRAWN BY: AG PROJECT	12/18/2024         BUILLIMBURY         E #SP.20.E.0272         IROL PLAN -         SIDE         EVELOPMENT         ENCLOPMENT         BURY, ONTARIO         VIIIImbury         NG DEPARTMENT         ING DEPARTMENT         Oronto, Ontario M4A 1Y1         31, 2018       CHECKED BY: NM         No:       APPROVED BY:NM

![](_page_3_Figure_0.jpeg)

		PROPO SANITA MH5/ TC	SED PRECAST RY MANHOLE A (1500mmØ) PP=238.12				
EXISTING GRADE				EXISTING C/L OF ROAD	EXISTING GRADE		
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					EX. 250mi PVC V	mØ EX. TELEPHONE NM LINE	0.30
0]							
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						BEDDING AS PER OPSD 802.010 STANDARD DRAWING	
DR26			INV 233.04	F	PROPOSED 59.9m - 200m	າmØ SANITARY SEWER @	1.00% ASTM D
238.42	238.02	237.78	237.58	237.42	237.26	237.20	237.15
70.0	80.0	90.0	100.0	110.0	120.0	130.0	140.0

#### **GENERAL NOTES**

- A. ALL DIMENTIONS IN METERS, EXCEPT PIPE DIAMETER, WHICH IS IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
- B. ALL SERVICES TO BE TO THE TOWN OF EAST GWILLIMBURY ENGINEERING DEPARTMENT STANDARDS AND SPECIFICATIONS AND TO THE SATISFACTION OF THE TOWN ENGINEER
- C. LOCATIONS OF EXISTING SERVICES NOT GUARANTEED CONTRACTOR TO NOTIFY UTILITY COMPANIES. FORTY-EIGHT (48) HOURS NOTICE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORK.
- D. FOR DIMENSIONS AND DETAILS NOT SHOWN, SEE STANDARD DRAWING REFERRED TO ON THE PROFILE.
- E. ALL EXCAVATIONS MUST BE CARRIED OUT ACCORDING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS 2007 FOR CONSTRUCTION PROJECTS.
- F. SEWER AND WATERMAIN TRENCHES TO BE BACKFILLED TO TOWN OF EAST GWILLIMBURY STANDARDS AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.

G. ALL STANDARD DRAWINGS ARE TO BE OPSD (MOST RECENT REVISION) UNLESS OTHERWISE SPECIFIED.

### SITEWORKS/ROADWORKS:

- A. THE SUBGRADE MUST BE STRIPPED OF ALL TOPSOIL, LOOSE FILL AND DELETERIOUS MATERIALS AND COMPACTED TO HAVE A MINIMUM 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- THE SUBGRADE MUST BE SHAPED AND CROWNED TO ALLOW DRAINAGE TO ADEQUATELY SPACES CATCHBASINS INSTALLED WITH ADEQUATELY FILTERED SUBDRAINS OR TO PERIMETER SWALES OR DITCHES LEADING TO A POSITIVE OUTLET. ROAD SUBGRADE COMPONENTS SHOULD BE PLACED AND COMPACTED IN ACCORDANCE WITH OPSS 310 TO
- A MINIMUM OF 92% OF THE MARSHALL MAXIMUM RELATIVE DENSITY (MRD) AND ASPHALT SAMPLES SHOULD BE TAKEN FOR COMPLIANCE TESTING. D. THE PAVEMENT GRANULAR COMPONENTS MAY THEN BE PLACED IN A MAXIMUM 300mm (12 INCH) LOOSE
- LIFTS AND COMPACTED TO A MINIMUM 98% OF SPMDD. E. PAVEMENT THICKNESS AND COMPACTION TO BE AS FOLLOWS:

CONFACTION REQUIRED	
ITEM	COMPACTION REQUIRED (% OF STANDARD PROCTOR DENSITY)
GRANULAR "A"	MINIMUM 100%
GRANULAR "B"	MINIMUM 98%
HL-6 OR HL-8	MINIMUM 96%
HL-3	MINIMUM 96%
LIGHT DUTY CAR PARKING:	
ITEM	COMPACTED THICKNESS
GRANULAR "A"	150 mm
GRANULAR "B"	225 mm
HL-6 OR HL-8	50mm
HL-3	40 mm
HEAVY DUTY LOADING AND AG	CCESS ROUTES:
ITEM	COMPACTED THICKNESS
GRANULAR "A"	150 mm
GRANULAR "B"	300 mm
HL-6 OR HL-8	60mm
HL-3	40 mm

- TOWN STANDARDS OPSD 600.070 (TWO-STAGE CURB) F. CURBS - ESTATE RESIDENTIAL - TOWN STANDARD OPSD 600.100
- G. INTERSECTIONS OF CURBS AND SIDEWALKS SHALL BE DEPRESSED, AS PER STANDARD OPSD 310.030. H. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE REINSTATED TO ORIGINAL CONDITION OR BETTER BY THE CONTRACTOR.
- I. SUB-DRAINS ARE TO BE INSTALLED THROUGHOUT.
- ALL NEW SIGNS WILL BE TYPE IV HIGH REFLECTIVITY SIGNS. WILL BE MADE OF STEEL AND WILL INCLUDE THE TOWN NAME AND YEAR OF MANUFACTURE ON THE BORDER OF THE SIGN. SIGN RETRO-REFLECTIVITY IS DETERMINED USING MUTCD TABLE 2A.3 (THE STANDARDS IN THE OTM REFER TO NEW SIGN RETRO-REFLECTIVITY).

#### A. ALL SEDIMENT CONTROL MEASURES SUCH AS SEDIMENT CONTROL FENCE. TEMPORARY PONDS. CONSTRUCTION ACCESS MATS, SEDIMENT TRAPS, SWALES AND CHECK DAMS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF SITE WORKS.

- SEDIMENT CONTROLS SHOULD BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY SIGNIFICANT RAINFALL EVENT. REPAIRS TO ESC MEASURES MUST BE COMPLETED IN A TIMELY MANNER TO PREVENT
- SEDIMENT MIGRATION. ADDITIONAL MATERIALS SUCH AS CLEAR STONE, FILTER FABRIC, PUMPS, HOLES AND SILTSOXX TO BE KEPT
- ONSITE AT ALL TIMES FOR CONDUCTING REPAIRS TO SEDIMENT CONTROL MATERIALS. D. ALL DISTURBED AREAS LEFT INACTIVE FOR MORE THAN THIRTY DAYS ARE TO BE STABILIZED.
- E. THE STABILIZATION SEED MIXTURE IS TO BE APPLIED AT A MINIMUM RATE OF 25 kg/ha.
- F. ENGINEERING CHANGES TO THE ESC MEASURES MAY BE NEEDED AS SITE CONTINUOUS CHANGE THROUGH THE CONSTRUCTION PROCESS. THESE UPDATES MUST REFLECT BEST MANAGEMENT PRACTICES TO CONTROL SEDIMENT AND EROSION ONSITE AND SHOULD BE COMPLETED BASED ON DIRECTION FROM THE SITE ENGINEER. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY AN ENGINEER THROUGHOUT THE CONTRACTION PROCESS. G. THE CONTRACTION ENTRANCE MAT IS TO BE INSTALLED AS THE FIRST STEP IN THE SITE ALTERATION
- PROCESS. H. SEDIMENT CONTROL FENCE IS TO BE INSTALLED DOWNSLOPE OF ALL DISTURBED AREAS. A DOUBLE ROW OF SEDIMENT CONTROL FENCE IS TO BE INSTALLED SURROUNDING ALL NATURAL HERITAGE FEATURES AND AS DIRECTED BY THE SITE ENGINEER. SEDIMENT CONTROL FENCE IN TO BE AS PER LSRCA STANDARD
- ESC-4 OR ESC-5 AS A MINIMUM. LIGHT DUTY SEDIMENT CONTROL FENCE IS NOT APPLICABLE. TEMPORARY SEDIMENT TRAP(S) ARE TO BE CONSTRUCTED AT THE BEGINNING OF THE SITE GRADING AND IF THE SITE DRAINAGE CHANGES DURING CONSTRUCTION. IT MAY BE NECESSARY FOR TEMPORARY SWALES TO BE CONSTRUCTED TO DIRECT SITE FLOWS TO THE TEMPORARY SEDIMENT TRAP(S) DURING
- ROUGH GRADING AND AS CONSTRUCTION PROGRESSES. J. IF STOCKPILES ARE USED ON-SITE FOR THE STORAGE OF EXCESS MATERIAL, THEY ARE TO BE IN ACCORDANCE WITH DETAIL DRAWING LRSCA ESC-6 OR BETTER. ANY DEWATERING OCCURRING ONSITE MUST BE IN ACCORDANCE WITH THE APPROVED DEWATERING
- PLAN. ADDITIONAL DEWATERING REQUIREMENTS MAY BE DEEMED NECESSARY AND SHALL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER, CONTRACT ADMINISTRATOR OR LOCAL MUNICIPALITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEAN-UP AND RESTORATION, INCLUDING ALL COST, DUE TO THE RELEASE OF SEDIMENT FROM THE SITE.
- M. LOW IMPACT DEVELOPMENT (LID) MEASURES ARE NOT TO BE USED AS SEDIMENT CONTROL DEVICES. ADDITIONAL SEDIMENT CONTROL DEVICES MAY BE DEEMED NECESSARY AND AS SITE CONDITIONS

CHANGE AND SHALL BE INSTALLED AS DIRECTED BY THE SITE ENGINEER, CONSTRUCTION ADMINISTRATOR

## SANITARY SEWERS

OF LOCAL MUNICIPALITY.

- A. WHEN SANITARY SEWER DOES NOT HAVE SUFFICIENT COVER (I.E. 2.5M CLEAR COVER), THE SANITARY SEWER MUST BE INSULATED AS PER OPSD 1109.030. B. PIPE:
- 1. ALL PVC GRAVITY SEWER PIPE SHALL CONFORM TO CSA SPECIFICATION B182.1 OR B182.2 (OR MOST RECENT REVISION) DR 35 WITH "LOCK-IN" RUBBER SEALING RING.
- 2. ALL HOUSE SERVICES SHALL BE CONNECTED TO SEWER WITH TEES. PIPE: 125 MM PVC, C/W 125 X 100 SEALED CLEANOUT AT PROPERTY LINE AND EXTENSION PIPE 1.5 METRES INTO PROPERTY WITH SEALED CAP. PIPE TO BE GREEN IN COLOUR. MARKER TO BE PAINTED GREEN.
- 3. ALL SEWER CONNECTIONS TO MANHOLES SHALL BE DONE BY MEANS OF A PVC MANHOLE ADAPTER. 4. THE BEDDING MATERIAL SHALL EXTEND TO OBVERT OF PIPE WITH 300 MM SAND COVER ABOVE PIPE
- AND COMPACTION TESTS ARE REQUIRED BEFORE THE TRENCH IS BACKFILLED. BACKFILL TO BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY. B. MANHOLES:
- MANHOLES TO BE STANDARD DRAWINGS OPSD 701.010 TO 701.015 (INCLUSIVE) 2. ALL SANITARY MANHOLES TO BE PRE-BENCHED MONOLITHIC BASE, WITH SEALED CONNECTIONS FOR
- ALL PIPES 3. MANHOLE LIDS IN CUL-DE-SAC LOCATIONS AND AT ALL LOW POINTS TO BE WATER-TIGHT TYPE. BEDDING - SEWER BEDDING TO BE TO STANDARD DRAWING OPSD 802.03, CLASS "B" (UNLESS OTHERWISE NOTED AND APPROVED).
- D. MARKERS ALL CONNECTIONS TO BE MARKED WITH 50 MM X 100 MM X 2.4 M STAKES PAINTED GREEN.
- E. LATERALS ALL LATERALS SHALL BE CONSTRUCTED ACCORDING TO STANDARD DRAWINGS OPSD 1006.01 AND 1006.02.

## STORM SEWERS:

- ALL CONCRETE PIPE SHALL HAVE SEALED JOINTS WITH GASKETS AND CLASS AS SHOWN ON DRAWINGS.
- ALL PVC GRAVITY SEWER PIPE SHALL CONFORM TO CSA SPECIFICATION B182.1 OR B182.2 (OR MOST RECENT REVISION) DR 35 WITH "LOCK-IN" RUBBER SEALING RING. WHEN STORM SEWER DOES NOT HAVE SUFFICIENT COVER (I.E. 2.5M CLEAR COVER), THE STORM SEWER MUST BE INSULATED AS PER OPSD 1109.030.
- MANHOLES: MANHOLES TO BE STANDARD DRAWINGS OPSD 701.010 TO 701.015 (INCLUSIVE).
- ALL STORM MANHOLES TO BE BENCHED THROUGHOUT TO THE CROWN OF ALL PIPES ON A VERTICAL PROJECTION FROM SPRING LINE, AS PER STANDARD DRAWINGS, EXCEPT AS OTHERWISE NOTED. BEDDING:
- 1. SEWER BEDDING TO BE TO STANDARD DRAWING OPSD 802.030 CLASS "B" BEDDING OR APPROVED BY THE TOWN ENGINEER. E. CATCHBASINS:
- LEADS FOR A SINGLE CATCHBASIN TO BE 200 MM AND FOR A DOUBLE CATCHBASIN 300 MM. ALL CATCHBASINS TO BE CONNECTED TO THE STORM SEWER BY TEES WHERE POSSIBLE. STANDARD DRAWINGS OPSD 705.010 TO 705.040. ALL REAR LOT CATCHBASINS TO BE INSTALLED WITHOUT SUMP
- PIT OR ALTERNATIVELY, SUMP TO BE FILLED WITH CONCRETE TO OUTLET INVERT. F. ALL STORM OUTFALLS THAT EMPTY INTO A DITCH OR WATERCOURSE MUST BLEND WITH THE FLOW OF
- G. ALL PVC JOINTS AT MANHOLES SHALL BE DONE BY MEANS OF A PVC MANHOLE ADAPTER. SERVICE CONNECTION 150 MM PVC, C/W 150 X 125 SEALED CLEANOUT AT PROPERTY LINE AND EXTENSION PIPE 1.5 METRES INTO PROPERTY WITH SEALED CAP. PIPE TO BE WHITE IN COLOUR. MARKER TO BE PAINTED WHITE.

# WATERMAIN:

- WATERMAIN TO BE AWWA C900 (THICK WALL PIPE) MINIMUM CLASS 150 (DR 18). WATERMAIN IS TO BE WRAPPED WITH 14-GAUGE STRAND COPPER WIRE TO BE BROUGHT TO GRADE AT ALL MAINLINE VALVES AND HYDRANT SECONDARY
- VALVES ALL SPLICES ARE TO BE DONE ABOVE GRADE OR USING A MOISTURE-PROOF SEAL. TOP OF WATERMAIN SHALL BE MINIMUM 1.7 M BELOW CENTRELINE OF ROAD GRADE. HYDRANTS AND VALVES - AS PER TOWN STANDARDS DRAWING NO. OPSD 1105.010. ALL HYDRANTS ARE TO BE SELF-DRAINING (UNLESS IN AREAS WITH HIGH WATER TABLE). ALL HYDRANTS ARE TO BE EQUIPPED WITH ONE (1)
- FOUR-INCH (4") PUMPER PORT WITH MANUFACTURER'S "STORTZ" FITTING. TOWN-APPROVED HYDRANTS ARE CANADA VALVE (CANVAL) - ONLY. SERVICES RESIDENTIAL - SERVICES TO BE 25 MM, TYPE "K" COPPER, AS PER STANDARD DRAWING OPSD 1104.01 AND
- HAVE A MINIMUM COVER OF 1.6 M ALL SERVICES SHALL BE SINGLE SERVICES TO THE MIDDLE OF THE LOT.
- MARKERS ALL CONNECTIONS TO BE MARKED WITH 50 MM X 100 MM X 2.4 M STAKES, PAINTED BLUE FOR WATER. ALL CURB STOPS, MAIN STOPS AND COUPLINGS ARE TO BE COMPRESSION-TYPE FITTINGS, I.E. CAMBRIDGE SUCCESSOR BALL VALVE TYPE, WHICH MUST BE APPROVED BY THE TOWNS ENGINEER COMPLETE WITH STAINLESS STEEL RODS AND BRASS PIN.
- F. ALL BENDS AND TEES MUST BE OPSD 1103.010 AND 1103.020 AND BLOCKED TO UNDISTURBED GROUND. MECHANICAL RESTRAINING JOINTS ARE PERMITTED WHERE APPROVED BY THE TOWN.
- WHEN WATERMAIN DOES NOT HAVE SUFFICIENT COVER DUE TO OTHER APPURTENANCES, I.E. CATCHBASINS, ETC., THE WATERMAIN MUST BE INSULATED. INSULATION AS PER OPSD 1109.030
- ALL MECHANICAL CONNECTIONS TO BE PROTECTED AGAINST CORROSION THROUGH THE USE OF CORROSION PROTECTION DURATION NUTS. NUTS TO BE USED ON 50% OF ALL T-BOLTS PER CONNECTION AND ARE TO BE USED IN ADDITION TO STANDARD FASTENING NUTS, NOT IN PLACE OF STANDARD NUTS.

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![](_page_4_Figure_63.jpeg)

![](_page_4_Figure_68.jpeg)

![](_page_4_Figure_69.jpeg)

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LIST OF DRAWINGS SG-01 (SITE GRADING PLAN - SOUTH SIDE) SS-01 (SITE SERVICING PLAN - SOUTH SIDE) EC-01 (EROSION CONTROL PLAN - SOUTH SIDE) UP-01 (PROPOSED MUNICIPAL SANITARY SEWERS AN	ND WATERMA	AINS)
DD-01 (DETAIL DRAWINGS)		
SITE PLAN INFORMATION HEMAN SHIH ARCHITECT INC. 26 TRISH DRIVE, RICHMOND HILL, ON L4E 5C5 tel: (905) 773-8304 fax: (905) 773-2716		
web: www.hemanshih.ca SURVEY INFORMATION LLOYD & PURCELL LTD.		
1228 GORHAM STREET, UNIT 28, NEWMARKET, ON I tel: (905) 895-6416 fax: (905) 853-5837 web: www.ontariolandsurveyors.ca	_3Y 8Z1	
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