BENCH MARK NOTE:

-TOPOGRAPHIC SURVEY INFORMATION OBTAINED BY MACKAY MACKAY & PETERS LIMITED, DRAWING NO. 17092. ADDITIONAL TOPOGRAPHIC SURVEY PROVIDED BY IBI GROUP JUNE, 2019
-JOHN WILLIAM BOICH PARKETTE GRADING AND SERVICING INFORMATION OBTAINED BY A.J. CLARKE AND ASSOCIATES LTD.

BENCHMARK
-CITY OF BURLINGTON BENCHMARK NO. 443
ELEVATION = 152.321 (CGVD-1928:1978 ADJUSTMENT)
MTO MB PLAQUE 818102 SET ON TOP OF CONCRETE BOX CULVERT LOCATED ON SOUTHEAST CORNER OF APPLEBY LINE AND DUNDAS STREET

NOTE:
ALL CONSTRUCTION ACTIVITIES RELATING TO THE NOISE WALLS CONSTRUCTION ARE TO BE CONDUCTED FROM PRIVATE PROPERTY SIDE OF THE NOISE WALL; INCLUDING THE MATERIAL, DELIVERIES/STORAGE AND THE AUGER/OTHER CONSTRUCTION VEHICLE ACCESS TO THE NOISE WALL LOCATIONS.

NOTE:
CONSTRUCTION OF ELEVATED DECKS WITHIN THE YARDS MAY COMPROMISE THE EFFECTIVENESS OF THE NOISE MITIGATION MEASURES AND CONTROLS WHICH HAVE BEEN ESTABLISHED FOR THESE LOTS.

CAUTION – WORK ADJACENT TO HIGH VOLTAGE HYDRO LINES. CONSTRUCTION OF BERM AND NOISE WALL TO BE COMPLETED IN ACCORDANCE WITH ALL SAFETY STANDARDS AND REQUIREMENTS OR WORK ADJACENT TO HIGH VOLTAGE HYDRO LINES.

DUNDAS STREET

PROPOSED LIMIT OF GRADING

PROP. 3.0m REGIONAL CONCRETE NOISE WALL WITH NOISE BERM (TOP OF BERM @ 158.10m) FROM LOT 4 TO 7, SEE DETAIL ON SHEET NO. 11

NOISE WALL MAINTENANCE EASEMENT 1.0m OFF WALL LAYOUT

PROP. 3.0m (HEIGHT TO MATCH EX.) REGIONAL CONCRETE NOISE WALL (TOP OF BERM @ 158.10m) FROM LOT 4 TO 7, SEE DETAIL ON SHEET NO. 11

MATCH PROP. 3.0m HIGH REGIONAL NOISE WALL INTO EX. 3.0m PRIVATE NOISE WALL

EX. 3.0m PRIVATE CONCRETE NOISE WALL TO REMAIN

END OF 3.0m HIGH CONCRETE NOISE WALL START OF 2.5m HIGH CONCRETE NOISE WALL

PROP. 2.5m HIGH CONCRETE NOISE WALL FOR REMAINDER OF LOT 7 ADJACENT TO PARK LAND

PROP. 18.8m SWALE @ 2.9%

END OF 2.5m HIGH CONCRETE NOISE WALL START OF 2.5m HIGH WOOD NOISE WALL

NOISE WALL MAINTENANCE EASEMENT 1.0m OFF WALL LAYOUT

PROP. 2.5m HIGH WOOD NOISE WALL FROM LOT 8 TO LOT 10 SEE DETAIL ON SHEET 11

TOP OF BANK

APPROXIMATE BUILDING ENVELOPE (TYP.)

PROP. 20.8m SWALE @ 2.1%

PROP. NOISE WALL 0.3m OFFSET PROPERTY LINE

PROP. 25.4m SWALE @ 2.1%

PROP. 11.6m SWALE @ 2.0%

PROP. 41.0m SWALE @ 2.3% c/w 150mmø SUBDRAIN AS PER DETAIL ON THIS SHEET SUBDRAIN OUTLET TO EX.CBMH2

PROP. GARDEN WALL

BASEMENT WINDOW WALL TO BE MINIMUM ELEVATION 155.95m

EX. CB AND LEAD TO BE REMOVED

0.9m HIGH DECORATIVE FENCE, SEE DETAIL ON SHEET L-4

PROP. PHASE 2 WORKS

LOT 1 F.F.E.=157.15 B.F.E.=154.35
LOT 2 F.F.E.=157.25 B.F.E.=154.45
LOT 3 F.F.E.=157.30 B.F.E.=154.50
LOT 4 F.F.E.=157.50 B.F.E.=154.70
LOT 5 F.F.E.=157.40 B.F.E.=154.60
LOT 6 F.F.E.=157.40 B.F.E.=154.60
LOT 7 F.F.E.=157.10 B.F.E.=154.30
LOT 8 F.F.E.=157.00 B.F.E.=154.20
LOT 9 F.F.E.=157.00 B.F.E.=154.20
LOT 10 F.F.E.=156.90 B.F.E.=154.10
BLOCK 11 F.F.E.=156.65 B.F.E.=153.85
BLOCK 11 F.F.E.=156.45 B.F.E.=153.65

28m MIN. BUILDING SETBACK
30m MIN. BUILDING SETBACK
11.50m SOUND WALL MAINTENANCE EASEMENT SEEDED WITH EATIVE NON-INVASIVE MIX

CANADIAN NATIONAL RAILWAY

EX. RESIDENTIAL

5.0m WIDE EASEMENT FOR ACCESS AND MAINTENANCE OF THE SOUND WALL AND BERM

5.0m WIDE STORM EASEMENT

EX. CB TO BE REMOVED AND DISPOSE OFFSITE

SEE SHEET NO.20 FOR NOTES REGARDING TREE PROTECTION DURING INSTALLATION OF DOUBLE CATCHBASIN.

3.0mx3.0m DAYLIGHT TRIANGLE

6.0mx6.0m DAYLIGHT TRIANGLE

PROPOSED SIDEWALK RAMP/CURB DEPRESSION AT INTERSECTION PER CITY OF BURLINGTON STANDARD DRAWINGS S-123

REMOVE AND REPLACE EX. RAMP AND CURB PER CITY OF BURLINGTON STANDARD DRAWINGS S-123, S-123A

PROPOSED 1.5m WIDE CONCRETE SIDEWALK

SIDEWALK AT DRIVEWAY LOCATION TO BE INSTALLED PER CITY OF BURLINGTON STD S-125B. SIDEWALK ALONG ZONE AT THE END OF THE CUL-DE-SAC IS TO BE INSTALLED PER DEPRESSED CURB AND DOES NOT UNDULATE WITH DRIVEWAYS.

RELOCATED CB(600X600mm) T/G=155.44

RELOCATED CB(600X600mm) T/G=155.31

EXISTING 2.4m STORM EASEMENT

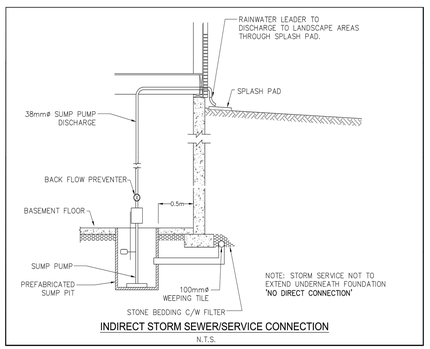
1.00 GAS & WATER EASEMENT (TYP.)

BIRD BOULEVARD

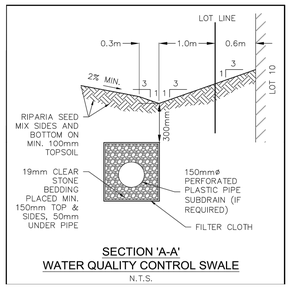
5233 STONEHAVEN DRIVE
JOHN WILLIAM BOICH PARKETTE

MH1 T/G 155.98
MH2 T/G 155.63
MH2A T/G 155.91
MH1A T/G 155.75
MH5 T/G 155.47
MH6 T/G=156.13
CB7 T/G=155.67
CB8 T/G=155.73
DCB9 T/G=155.57
DCB10 T/G=155.55
EX. CBMH1 (1200ø) T/G=155.74
EX. CBMH2 (1200ø) T/G=155.16
EX. MH T/G=155.40
EX. MH T/G=155.47
EX. CB

5160 5162 5164 5166 5168



INDIRECT STORM SEWER/SERVICE CONNECTION
N.T.S.



SECTION 'A-A'
WATER QUALITY CONTROL SWALE
N.T.S.

SUMP PUMP NOTE:
NO DIRECT STORM SEWER CONNECTIONS. FOUNDATION DRAINS TO BE CONNECTED TO SUMP PUMPS, DISCHARGE TO GRADE. ALL LOTS TO HAVE SUMP PUMPS. SUMP PUMPS TO DISCHARGE TO SPLASH PAD PER DETAIL ON THIS SHEET.

FOUNDATION DRAIN TO BE PROVIDED UNDER EACH LOT. SEE GEOTECHNICAL REPORT BY PML DATED APRIL 2019 FOR DETAILS.

NOTE:
ALL DEVELOPMENT RELATED OCCUPANCY OF, AND MODIFICATIONS TOT HE REGIONAL ROAD ALLOWANCE ARE REQUIRED TO BE COORDINATED AND PERMITTED VIA AND EXECUTED DEVELOPMENT AGREEMENT.

NOISE BARRIER (NOISE WALL) NOTE:

1) PRIVATE OWNERSHIP OF 2.5m HIGH WOOD SOUND BARRIER WALL/NOISE WALL FOR LOTS 8-10.
2) PRIVATE OWNERSHIP OF EXISTING 3.0m HIGH CONCRETE SOUND BARRIER (NOISE WALL) FOR LOTS 1 TO PART OF LOT 4.
3) FUTURE MAINTENANCE AND RECONSTRUCTION OF THE SOUND BARRIER NOISE WALLS ARE THE RESPONSIBILITY OF THE HOMEOWNERS.

LEGEND:

×155.31	EX. ELEVATION
×156.80	PROP. ELEVATION
×(156.80)	EX. PARK GRADE ELEVATION (AJC)
×155.97EX	MATCH EXISTING ELEVATION
2.4%	PROP. SLOPE
	EX. DIRECTION OF FLOW
	PROP. OVERLAND FLOW
F.F.E.	FINISH FLOOR ELEVATION
T.F.E.	TOP OF FOUNDATION ELEVATION
G.F.E.	GARAGE FLOOR ELEVATION
B.F.E.	BASEMENT FLOOR ELEVATION
SR	NUMBER OF RISERS
	PROP. STORM MANHOLE
	PROP. CATCH BASIN
	PROP. DOUBLE CATCH BASIN
	EX. DOUBLE CATCH BASIN
	PROP. CATCH BASIN MANHOLE
	PROP. SANITARY MANHOLE
	EX. SANITARY MANHOLE
1	EXISTING TREE NUMBER (TO REMAIN)
	PROP. PHASE 2 WORKS
SP	PROP. SUMP PUMP WITH SPLASH PAD
	EX. HYDRANT
	PROP. HYDRANT
	PROP. WATER VALVE
	EX. WATER VALVE
	EX. VALVE CHAMBER
	EX. BELL BOX
	EX. CABLE TV BOX
HH	EX. HANDHOLE
	EX. HYDRO TRANSFORMER
	PROP. DEPRESSED CURB
	PROP. NOISE WALL
	EX. CHAINLINK FENCE
	PROP. LIGHT STANDARD



KEY MAP
N.T.S.

REGIONAL
DESIGN OF WATER &/OR WASTEWATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCATION APPROVAL FROM LOCAL MUNICIPALITY.

LEGISLATIVE AND PLANNING SERVICES

DATE

NO.	DATE	BY	REVISIONS
16	AUG 2024	AP	ISSUED FOR PLAN OF SUBDIVISION
15	AUG 2024	AP	REVISED PER PHASE 1 (TOWNHOUSE BLOCK A TO H)
14	MAR 2023	AK	REVISED UCP & ISSUED FOR FINAL APPROVAL.
13	NOV 2022	SD	UPDATED HYDRO LAYOUT.
12	FEB 2022	AK	REVISED PER CITY COMMENTS.

NOTES TO CONTRACTOR:

1. CONTRACTORS AND SUBCONTRACTORS SHALL NOT SCALE FROM THIS DRAWING.
2. ANY INCONSISTENCIES AND OMISSIONS FOUND ON THE DRAWINGS MUST BE REPORTED TO THE ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK.
3. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS AND REPORT ALL FINDINGS TO THE ENGINEER. ONCE CONSTRUCTION HAS COMMENCED, THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS.
4. THE POSITIONS OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVER-GROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS. WHERE SHOWN ON THE DRAWING, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
5. ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, REUSED, OR REVISED WITHOUT THE WRITTEN CONSENT OF S. LLEWELLYN AND ASSOCIATES LIMITED.

DESIGN	–	CHK'D	SL	DATE
DRAWN	AK	CHK'D	SL	Aug. 12, 24

SCALE 1:250 (0 5 10 15 20 25)

APPROVALS

MUNICIPAL

EXECUTIVE DIRECTOR OF CAPITAL WORKS

DATE

STAMP: LICENSED PROFESSIONAL ENGINEER — Alex Porco — A. L. PORCO — 100562394 — 2024/08/12 — PROVINCE OF ONTARIO

S. LLEWELLYN & ASSOCIATES LIMITED
CONSULTING ENGINEERS
Tel. (905) 631-6978
Website: www.sla.on.ca
email: info@sla.on.ca
3228 South Service Road, Suite #105 East Wing, Burlington, Ont., L7N 3H8

CLIENT

CITY OF BURLINGTON

PROJECT NAME

BASINGSTOKE ENTERPRISES LTD.
STONEHAVEN SUBDIVISION
5209 STONEHAVEN DRIVE
REGION OF HALTON FILE No.: 24T-17001/DB-1011
MUNICIPAL FILE No.: 510-01/17

TITLE

GRADING PLAN

PROJECT No. 21052

DRAWING No. SHEET 2 of 27

S:\21052\Working\Current\21052 – Grading & Servicing Plan.dwg
Plotted: August 12, 2024 4:13:09 PM By: Alexandra Porco

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BENCHMARK
-CITY OF BURLINGTON BENCHMARK NO. 443
ELEVATION = 152.321 (CGVD-1928:1978 ADJUSTMENT)
MTO MB PLAQUE 818102 SET ON TOP OF CONCRETE BOX CULVERT LOCATED ON SOUTHEAST CORNER OF APPLEBY LINE AND DUNDAS STREET

APPROX. LOCATION OF EX. 1500mm CONCRETE CASING PIPE

CAUTION – WORK ADJACENT TO HIGH VOLTAGE HYDRO LINES. CONSTRUCTION OF BERM AND NOISE WALL TO BE COMPLETED IN ACCORDANCE WITH ALL SAFETY STANDARDS AND REQUIREMENTS FOR WORK ADJACENT TO HIGH VOLTAGE HYDRO LINES

PROP. 3.0m REGIONAL CONCRETE NOISE WALL WITH NOISE BERM (TOP OF BERM @ 158.10m) FROM LOT 4 TO 7, SEE DETAIL ON SHEET NO. 11

NOTE: EX. 400mm DIA. WM RESIDES AT JUST NORTHWEST OF THE 900mm DIA. TRUNK WM, AT THE BOTTOM OF THE ROAD EMBANKMENT (OFF SHEET).

NOISE WALL MAINTENANCE EASEMENT 1.0m OFF WALL LAYOUT

PROP. 3.0m (HEIGHT TO MATCH EX.) REGIONAL CONCRETE NOISE WALL (TOP OF BERM @ 158.10m) FROM LOT 4 TO 7, SEE DETAIL ON SHEET NO. 11

MATCH PROP. 3.0m HIGH REGIONAL NOISE WALL INTO EX. 3.0m PRIVATE NOISE WALL

EX. 3.0m PRIVATE CONCRETE NOISE WALL TO REMAIN

NOTE: PROPOSED LANDSCAPING (TYP.) SHOWN FOR INFORMATION PURPOSES ONLY. FOR FURTHER DETAILS REFER TO LANDSCAPE PLAN PREPARED BY ADESSO DESIGN INC.

LOT 1 F.F.E.=157.15 B.F.E.=154.35
LOT 2 F.F.E.=157.25 B.F.E.=154.45
LOT 3 F.F.E.=157.30 B.F.E.=154.50
LOT 4 F.F.E.=157.50 B.F.E.=154.70
LOT 5 F.F.E.=157.40 B.F.E.=154.60
LOT 6 F.F.E.=157.40 B.F.E.=154.60
LOT 7 F.F.E.=157.10 B.F.E.=154.30
LOT 8 F.F.E.=157.00 B.F.E.=154.20
LOT 9 F.F.E.=157.00 B.F.E.=154.20
LOT 10 F.F.E.=156.90 B.F.E.=154.10
BLOCK 11 F.F.E.=156.65 B.F.E.=153.85
BLOCK 11 F.F.E.=156.70 F.F.E.=156.50 B.F.E.=153.95
BLOCK 11 F.F.E.=156.45 B.F.E.=153.65

5.0m WIDE EASEMENT FOR ACCESS AND MAINTENANCE OF THE SOUND WALL AND BERM
5.0m WIDE STORM EASEMENT

EX. CHAINLINK FENCE

END OF 3.0m HIGH CONCRETE NOISE WALL START OF 2.5m HIGH CONCRETE NOISE WALL

PROP. 2.5m HIGH CONCRETE NOISE WALL FOR REMAINDER OF LOT 7 ADJACENT TO PARK LAND

END OF 2.5m HIGH CONCRETE NOISE WALL START OF 2.5m HIGH WOOD NOISE WALL

PROP. 2.5m HIGH WOOD NOISE WALL FROM LOT 8 TO LOT 10 SEE DETAIL ON SHEET 11

PROP. NOISE WALL 0.3m OFFSET PROPERTY LINE

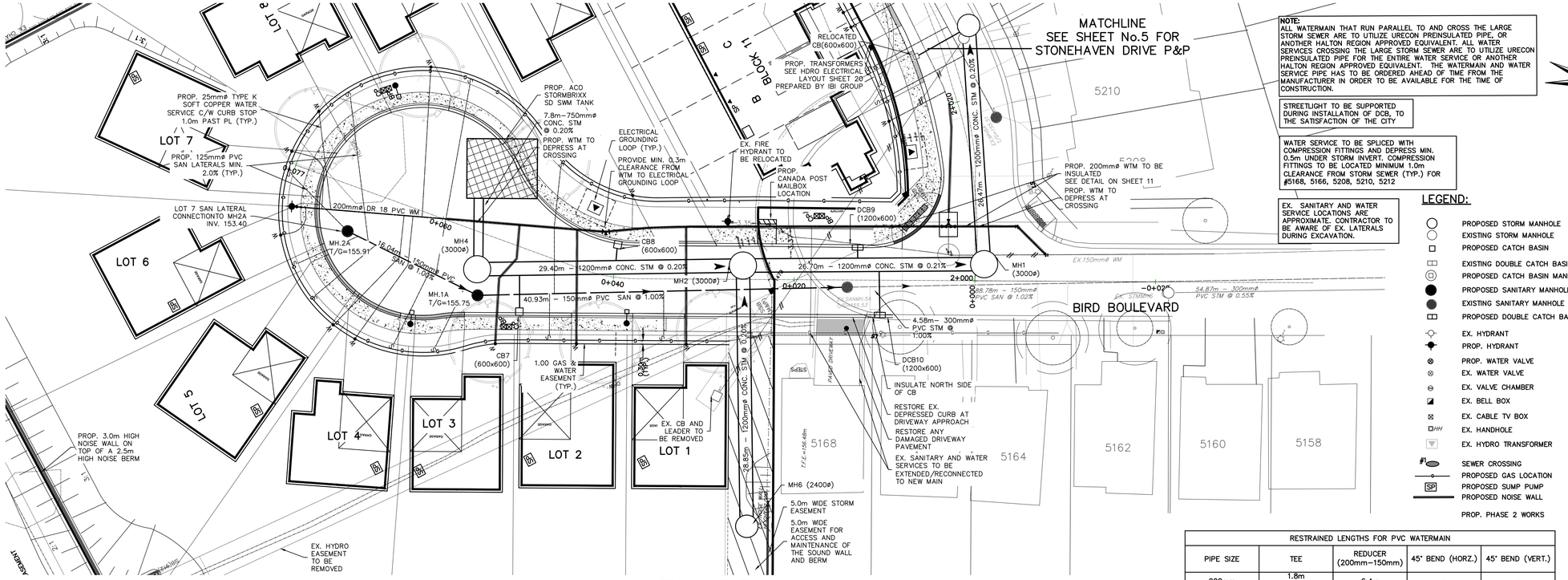
NOTE: SCHEMATIC STREET TREE PLANTING (TYP.) SHOWN FOR INFORMATION PURPOSES ONLY. FOR FURTHER DETAILS REFER TO LANDSCAPE PLAN PREPARED BY ADESSO DESIGN INC.

NOTE: EXISTING TREE NUMBERS, PROTECTION ZONES AND CRITICAL ROOT ZONES ARE SHOWN FOR INFORMATION PURPOSES ONLY. REFER TO TREE PROTECTION PLAN PREPARED BY ADESSO DESIGN INC. FOR FURTHER DETAILS.

CB.6(600x600) T/G=155.62 NE=153.93
EX. CBMH.1(1200ø) T/G=155.74 SE=153.85 SW=153.91
2.63m – 250mmø PVC STM @ 0.84%
PROP. 200x150mm REDUCER
MH2A T/G=155.91
MH1A T/G=155.75
MH.4(2400ø) T/G=155.81 SE=153.71 NE=154.00
DEPRESSED WM AT CROSSING
16.04m – 150mmø PVC SAN @ 1.00%
7.8m–750mmø CONC STM @ 0.20%
PROP. ACO STORMBRIXX SD SWM TANK (c/w INSPECTION PORT) TANK VOLUME=45m³ (CONTRACTOR TO PROVIDE SHOP DRAWINGS)
PROP. 200mmø WATERMAIN TO BE INSULATED SEE DETAIL ON SHEET NO. 11
PROP. TRANSFORMER SEE HYDRO ELECTRICAL LAYOUT ON SHEET 20
1.29 GAS & WATER CROSSING (TYP.)
CB.8(600x600) T/G=155.74
1.72m – 300mmø PVC STM @ 12.78%
MH6(2400ø) T/G=156.13 NE=153.71
4.14m – 300mmø PVC STM @ 5.80%
MH.2(3000ø) T/G=155.71 SE=153.60 NW=153.65 SW=153.65
4.40m – 300mmø PVC STM @ 1.00%
EX. CB T/G=155.85 (TO BE REMOVED AND DISPOSED OFF SITE)
COMBINED ANCHOR TEE AND VALVE
EX. FIRE HYDRANT TO BE RELOCATED
DCB.9(1200x600) T/G=155.60 PER OPSD 400.090
PROP. 200mmø WATERMAIN TO BE INSULATED SEE DETAIL ON SHEET NO. 11
RESTORE DEPRESSED CURB
EXISTING SAN. LATERAL
INSULATE NORTH SIDE OF CB
DCB.10(1200x600) T/G=155.57 PER OPSD 400.090
EXISTING WATER VALVE CHAMBER TO BE REMOVED
STREETLIGHT TO BE SUPPORTED DURING INSTALLATION OF DCB, TO THE SATISFACTION OF THE CITY
EX. SANITARY AND WATER SERVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR TO BE AWARE OF EX. LATERALS DURING EXCAVATION.
EX. 88.71m–150mmø SVC SAN @ 1.03%
PROPOSED 1.8mX2.4m PRECAST WATER VALVE CHAMBER PER HALTON REGION DETAIL RH 402.050
PROP. 200x150mm REDUCER
MH.1(3000ø) T/G=155.68 NE=153.51 NW=153.54
CONNECT EXISTING WATER LATERAL TO NEW WATERMAIN LOCATION
WATER SERVICE TO BE SPLICED WITH COMPRESSION FITTINGS AND DEPRESS MIN. 0.5m UNDER STORM INVERT. COMPRESSION FITTINGS TO BE LOCATED MINIMUM 1.0m CLEARANCE FROM STORM SEWER (TYP.) FOR #5168, 5166, 5164, 5208, 5210, 5212
SHOP DRAWINGS TO BE PROVIDED FOR CONNECTION ANGLE LESS THAN 90° FOR ENGINEER'S APPROVAL
26.47m–1200mmø CONC. STM @ 0.20%
CONNECT TO EX. 150mmø WTM
DEPRESSED WM AT CROSSING
PROP. 45° BENDS
RELOCATED CB(600X600) T/G=155.44
MH.5(2400ø) T/G=155.47 SW=153.46
HYDRO DUCT UNDERGROUND
EX. STORM MANHOLE TO BE REMOVED AND REPLACED WITH 2400ø MH.6
EX. 200mmø STORM SEWER TO BE RECONNECTED TO PROP. MH5
RELOCATED CB(600X600mm) T/G=155.31
EX. FIRE HYD TO BE RELOCATED
EX. 108.03m – 150mmø PVC SAN @ 1.33%
PROP. LINE VALVE
EX.150mm DIA. WM PVC DR18
CONTROL MANHOLE (1200ø) T/G=155.06 SW=153.03 E=153.01 200ø ORIFICE PLATE @ 153.01
EX. 200mmø SAN SEWER
EX. MH17A T/G=155.02
EX. MH18 T/G=155.06
EX. MH19 T/G=155.10

A B C D E F G H

1.33m – 300mmø PVC STM @ 1.00%
PROP. TRANSFORMER SEE HYDRO ELECTRICAL LAYOUT ON SHEET 22
RELOCATED STREETLIGHT
EX. CBMH2(1200ø) T/G=155.16 SE=153.62 NW=153.62
EXISTING CB LEAD TO BE REMOVED
0.9m HIGH DECORATIVE FENCE, SEE DETAIL ON SHEET L–4
1.00 GAS EASEMENT (TYP.)
TOP OF BANK
APPROXIMATE BUILDING ENVELOPE (TYP.)
EX. SWALE ON PARK SIDE ALONG PROPERTY
CONCRETE SIDEWALK
ROAD EDGE
C OF ROAD
HEDGE
EX. CHAINLINK FENCE
EX. 1.2m HIGH WOOD NOISE WALL
EX. 1.8m HIGH WOOD NOISE WALL
EX. 1.2m HIGH WOOD NOISE WALL
EX. 1.2m HIGH CHAINLINK FENCE



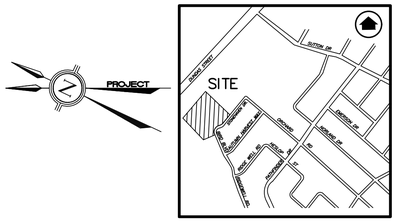
BIRD BOULEVARD

NOTE:
ALL WATERMAIN THAT RUN PARALLEL TO AND CROSS THE LARGE STORM SEWER ARE TO UTILIZE URECON PREINSULATED PIPE, OR ANOTHER HALTON REGION APPROVED EQUIVALENT. ALL WATER SERVICES CROSSING THE LARGE STORM SEWER ARE TO UTILIZE URECON PREINSULATED PIPE FOR THE ENTIRE WATER SERVICE OR ANOTHER HALTON REGION APPROVED EQUIVALENT. THE WATERMAIN AND WATER SERVICE PIPE HAS TO BE ORDERED AHEAD OF TIME FROM THE MANUFACTURER IN ORDER TO BE AVAILABLE FOR THE TIME OF CONSTRUCTION.

STREETLIGHT TO BE SUPPORTED DURING INSTALLATION OF DCB, TO THE SATISFACTION OF THE CITY

WATER SERVICE TO BE SPLICED WITH COMPRESSION FITTINGS AND DEPRESS MIN. 0.5m UNDER STORM INVERT. COMPRESSION FITTINGS TO BE LOCATED MINIMUM 1.0m CLEARANCE FROM STORM SEWER (TYP.) FOR #5168, 5166, 5208, 5210, 5212

EX. SANITARY AND WATER SERVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR TO BE AWARE OF EX. LATERALS DURING EXCAVATION.



LEGEND:

- PROPOSED STORM MANHOLE
- EXISTING STORM MANHOLE
- PROPOSED CATCH BASIN
- EXISTING DOUBLE CATCH BASIN
- PROPOSED CATCH BASIN MANHOLE
- PROPOSED SANITARY MANHOLE
- EXISTING SANITARY MANHOLE
- PROPOSED DOUBLE CATCH BASIN
- EX. HYDRANT
- PROP. HYDRANT
- PROP. WATER VALVE
- EX. WATER VALVE
- EX. VALVE CHAMBER
- EX. BELL BOX
- EX. CABLE TV BOX
- EX. HANDHOLE
- EX. HYDRO TRANSFORMER
- SEWER CROSSING
- PROPOSED GAS LOCATION
- PROPOSED SUMP PUMP
- PROPOSED NOISE WALL
- PROP. PHASE 2 WORKS

REGIONAL
DESIGN OF WATER &/OR WASTEWATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCATION APPROVAL FROM LOCAL MUNICIPALITY.

LEGISLATIVE AND PLANNING SERVICES

DATE

RESTRAINED LENGTHS FOR PVC WATERMAIN				
PIPE SIZE	TEE	REDUCER (200mm-150mm)	45° BEND (HORZ.)	45° BEND (VERT.)
200mm	1.8m (200x200x150mm)	6.4m	–	–
150mm	–	6.4m	1.8m	4.9m

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DESIGN		CHK'D	SL	DATE
DRAWN		CHK'D	SL	Aug. 12, 24

SCALE
1:250 (0, 5, 10, 15, 20, 25)
1:50 (0, 2.5, 5)

APPROVALS

MUNICIPAL

EXECUTIVE DIRECTOR OF CAPITAL WORKS

DATE

STAMP: LICENSED PROFESSIONAL ENGINEER — A. L. PORCO — 100562394 — 2024/08/12 — PROVINCE OF ONTARIO

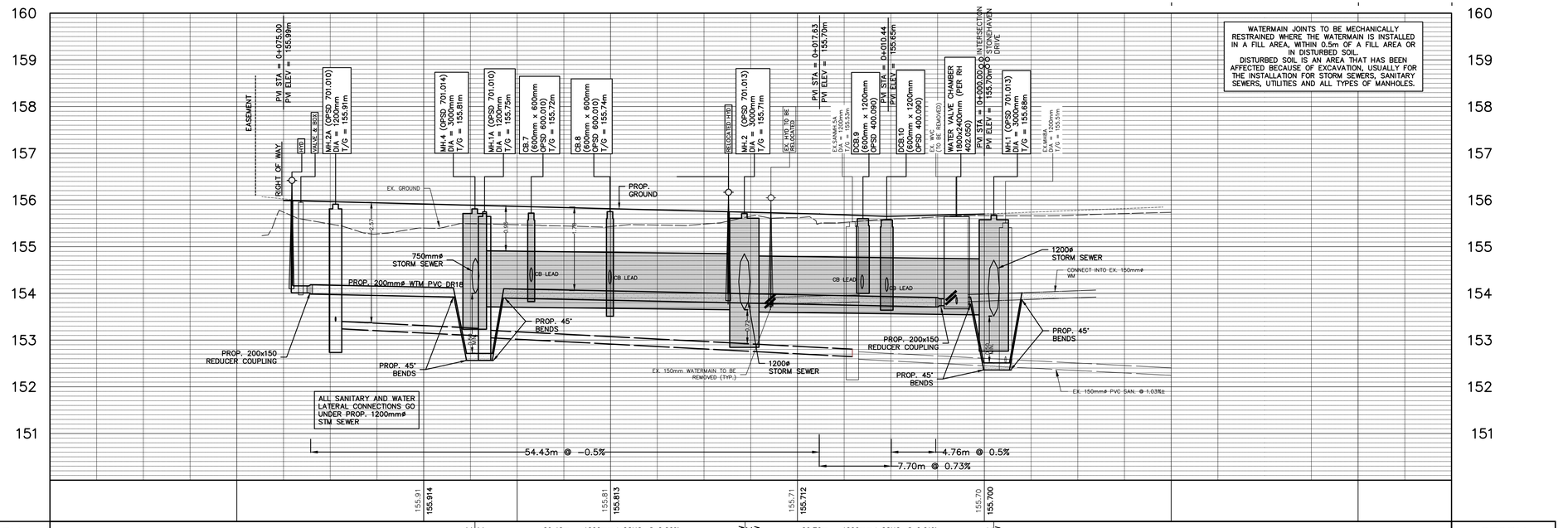
S. LLEWELLYN & ASSOCIATES LIMITED
CONSULTING ENGINEERS
Tel. (905) 631-6978
Website: www.sla.on.ca
email: info@sla.on.ca
3228 South Service Road, Suite #105 East Wing, Burlington, Ont., L7N 3H8

CLIENT
CITY OF BURLINGTON

PROJECT NAME
BASINGSTOKE ENTERPRISES LTD.
STONEHAVEN SUBDIVISION
5209 STONEHAVEN DRIVE
REGION OF HALTON FILE No.: 24T-17001/DB-1011
MUNICIPAL FILE No.: 510-01/17

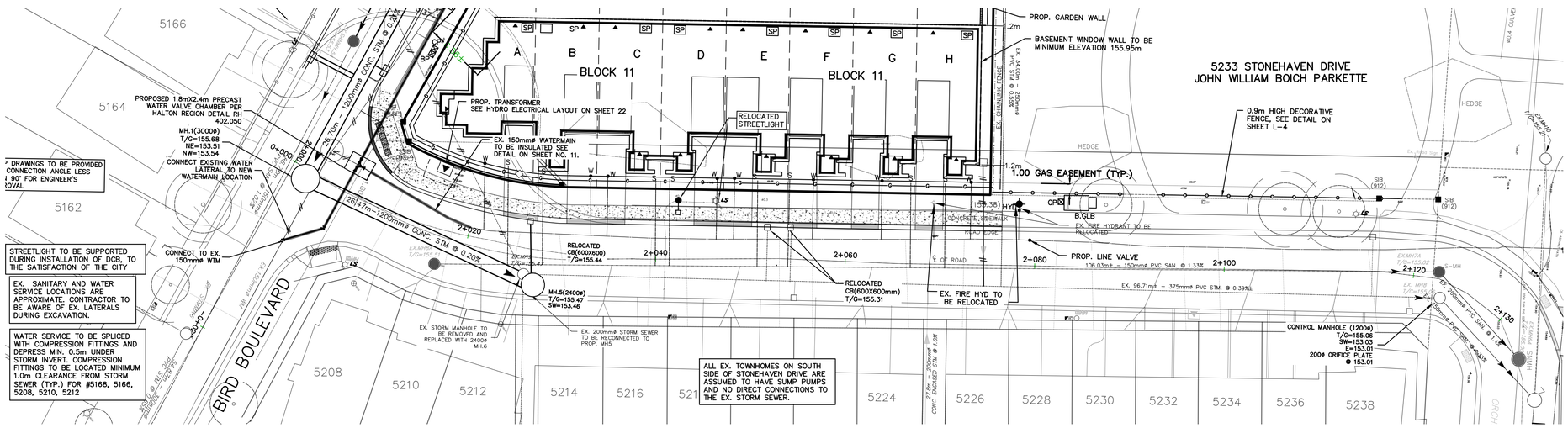
TITLE
BIRD BOULEVARD PLAN & PROFILE

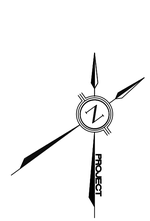
PROJECT No. 21052
DRAWING No. SHEET 4 of 27



STORM SEWER					154.00NE 153.71SE	29.40m – 1200mmø CONC. @ 0.20% CSA A257.2 CL 100–D BEDDING PER OPSD 802.031, CLASS C NATIVE BACKFILL			153.65NW 153.60SE 153.65SW	26.70m – 1200mmø CONC. @ 0.21% CSA A257.2 CL 100–D BEDDING PER OPSD 802.031, CLASS C NATIVE BACKFILL			153.51NE 153.54NW						STORM SEWER
SANITARY SEWER		153.25S 153.40N	16.04m – 150mmø PVC SDR 28 @ 1.00%		153.06SE 153.09N	40.93m – 150mmø PVC SDR 28 @ 1.00%			152.65NW 152.80SE			EX. 88.71m – 150mmø PVC @ 1.03%							SANITARY SEWER
STATIONS	0+100	0+080	0+060	0+040	0+020	-0+020	-0+040	STATIONS

NOTE:
ALL WATERMAIN THAT RUN PARALLEL TO AND CROSS THE LARGE STORM SEWER ARE TO UTILIZE URECON PREINSULATED PIPE, OR ANOTHER HALTON REGION APPROVED EQUIVALENT. ALL WATER SERVICES CROSSING THE LARGE STORM SEWER ARE TO UTILIZE URECON PREINSULATED PIPE FOR THE ENTIRE WATER SERVICE OR ANOTHER HALTON REGION APPROVED EQUIVALENT. THE WATERMAIN AND WATER SERVICE PIPE HAS TO BE ORDERED AHEAD OF TIME FROM THE MANUFACTURER IN ORDER TO BE AVAILABLE FOR THE TIME OF CONSTRUCTION.





REGIONAL
DESIGN OF WATER &/OR WASTEWATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCATION APPROVAL FROM LOCAL MUNICIPALITY.

LEGISLATIVE AND PLANNING SERVICES

DATE

RESTRAINED LENGTHS FOR PVC WATERMAIN				
PIPE SIZE	TEE	REDUCER (200mm–150mm)	45° BEND (HORZ.)	45° BEND (VERT.)
200mm	1.8m (200x200x150mm)	6.4m	–	–
150mm	–	6.4m	1.8m	4.9m

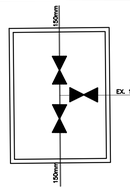
LEGEND:

- PROPOSED STORM MANHOLE
- EXISTING STORM MANHOLE
- PROPOSED CATCH BASIN
- EXISTING DOUBLE CATCH BASIN
- PROPOSED CATCH BASIN MANHOLE
- PROPOSED SANITARY MANHOLE
- EXISTING SANITARY MANHOLE
- PROPOSED DOUBLE CATCH BASIN
- EX. HYDRANT
- PROP. HYDRANT
- PROP. WATER VALVE
- EX. WATER VALVE
- EX. VALVE CHAMBER
- EX. BELL BOX
- EX. CABLE TV BOX
- EX. HANDHOLE
- EX. HYDRO TRANSFORMER
- SEWER CROSSING
- PROPOSED GAS LOCATION
- PROPOSED SUMP PUMP
- PROPOSED NOISE WALL
- EXISTING CHAINLINK FENCE

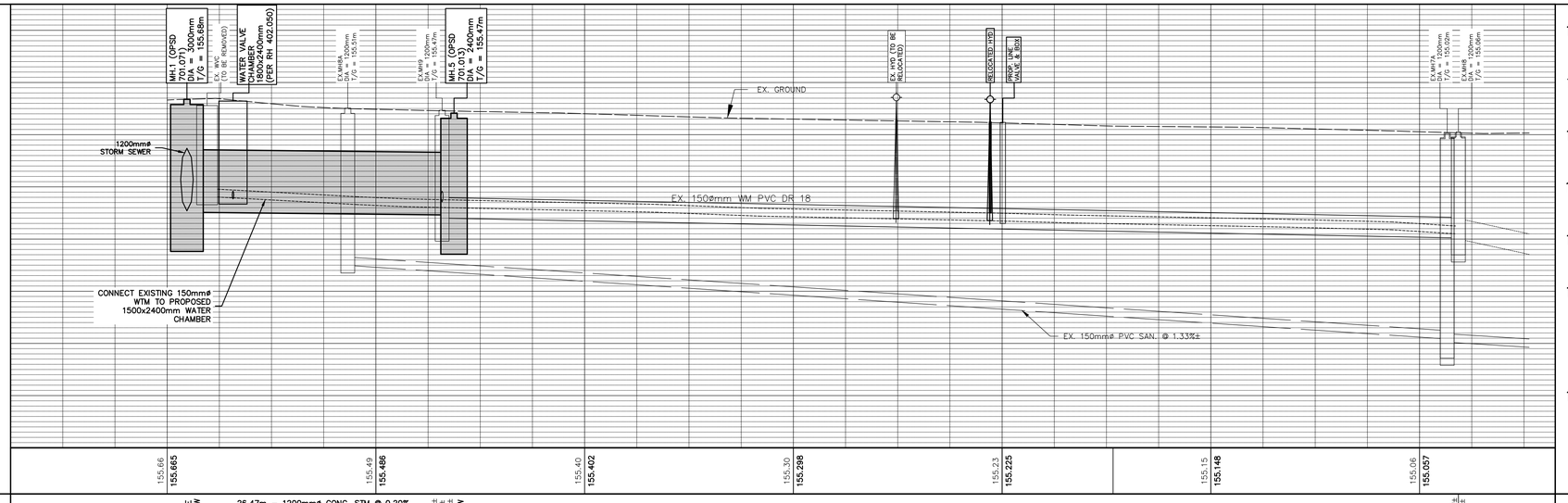
PROPOSED PRECAST WATER VALVE CHAMBER (PER REGION STD RH 400.050)

IN CHAMBER

1 – 150mm x 150mm TEE
3 – 150mm VALVE



STONEHAVEN DRIVE



	155.66 / 155.665	155.49 / 155.486	155.40 / 155.402	155.30 / 155.298	155.23 / 155.225	155.15 / 155.148	156.06 / 155.057
STORM SEWER	153.51NE 153.54NW	26.47m – 1200mmø CONC. STM @ 0.20% CSA A257.2 CL 100–D BEDDING PER OPSD 802.031, CLASS C NATIVE BACKFILL	153.41NE± 153.72SE± 153.75SE± 153.46SW	96.71m – 375mmø PVC STM @ 0.39%			153.03SW± 153.01SE± 14.72m – 375mmø PVC STM @ 4.55%
SANITARY SEWER		152.500NE±	106.03m – 150mmø PVC SAN @ 1.33%				151.09SW± 151.01SE± 12.46m – 150mmø PVC SAN @ 1.20%
STATIONS		2+020	2+040	2+060	2+080	2+100	2+120

BENCH MARK NOTE:

–TOPOGRAPHIC SURVEY INFORMATION OBTAINED BY MACKAY MACKAY & PETERS LIMITED, DRAWING NO. 17092. ADDITIONAL TOPOGRAPHIC SURVEY PROVIDED BY IBI GROUP JUNE, 2019
–JOHN WILLIAM BOICH PARKETTE GRADING AND SERVICING INFORMATION OBTAINED BY A.J. CLARKE AND ASSOCIATES LTD.

BENCHMARK
–CITY OF BURLINGTON BENCHMARK NO. 443
ELEVATION = 152.321 (CGVD–1928:1978 ADJUSTMENT)
MTO MB PLAQUE #181102 SET ON TOP OF CONCRETE BOX CULVERT LOCATED ON SOUTHEAST CORNER OF APPLEBY LINE AND DUNDAS STREET

NO.	DATE	BY	REVISIONS
16	AUG 2024	AP	ISSUED FOR PLAN OF SUBDIVISION
15	AUG 2024	AP	REVISED PER PHASE 1 (TOWNHOUSE BLOCK A TO H)
14	MAR 2023	AK	REVISED UCP & ISSUED FOR FINAL APPROVAL.
13	NOV 2022	SD	UPDATED HYDRO LAYOUT.
12	FEB 2022	AK	REVISED PER CITY COMMENTS.

NOTES TO CONTRACTOR:

1. CONTRACTORS AND SUBCONTRACTORS SHALL NOT SCALE FROM THIS DRAWING.
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MUNICIPAL FILE No.: 510–01/17

TITLE

STONEHAVEN DRIVE PLAN & PROFILE

PROJECT No. 21052

DRAWING No. SHEET 5 of 27

S:\21052\Working\Current\21052 – Grading & Servicing Plan.dwg
Plotted: August 12, 2024 4:18:46 PM By: Alexandra Porco