

BALMORAL VILLAGE

TOWN OF COLLINGWOOD COUNTY OF SIMCOE



MUNICIPALITY

TOWN OF COLLINGWOOD
PLANNING SERVICES
55 STE. MARIE ST., UNIT 303
COLLINGWOOD, ONTARIO, L9Y 0W6

DEVELOPER

ROYALTON HOMES INC. COLLINGWOOD SENIORS GP LTD.
10114 HWY 26, UNIT 4 3205 EPWORTH CRESCENT,
COLLINGWOOD, ONTARIO, L9Y 3Z1 OAKVILLE, ONTARIO, L6M 0B3

DEVELOPER'S ENGINEER

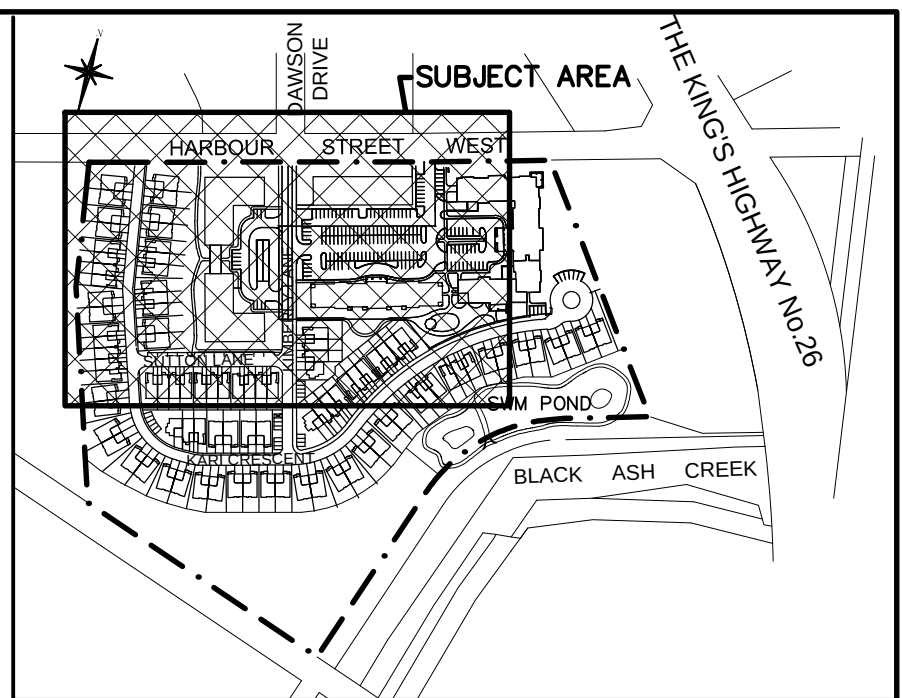
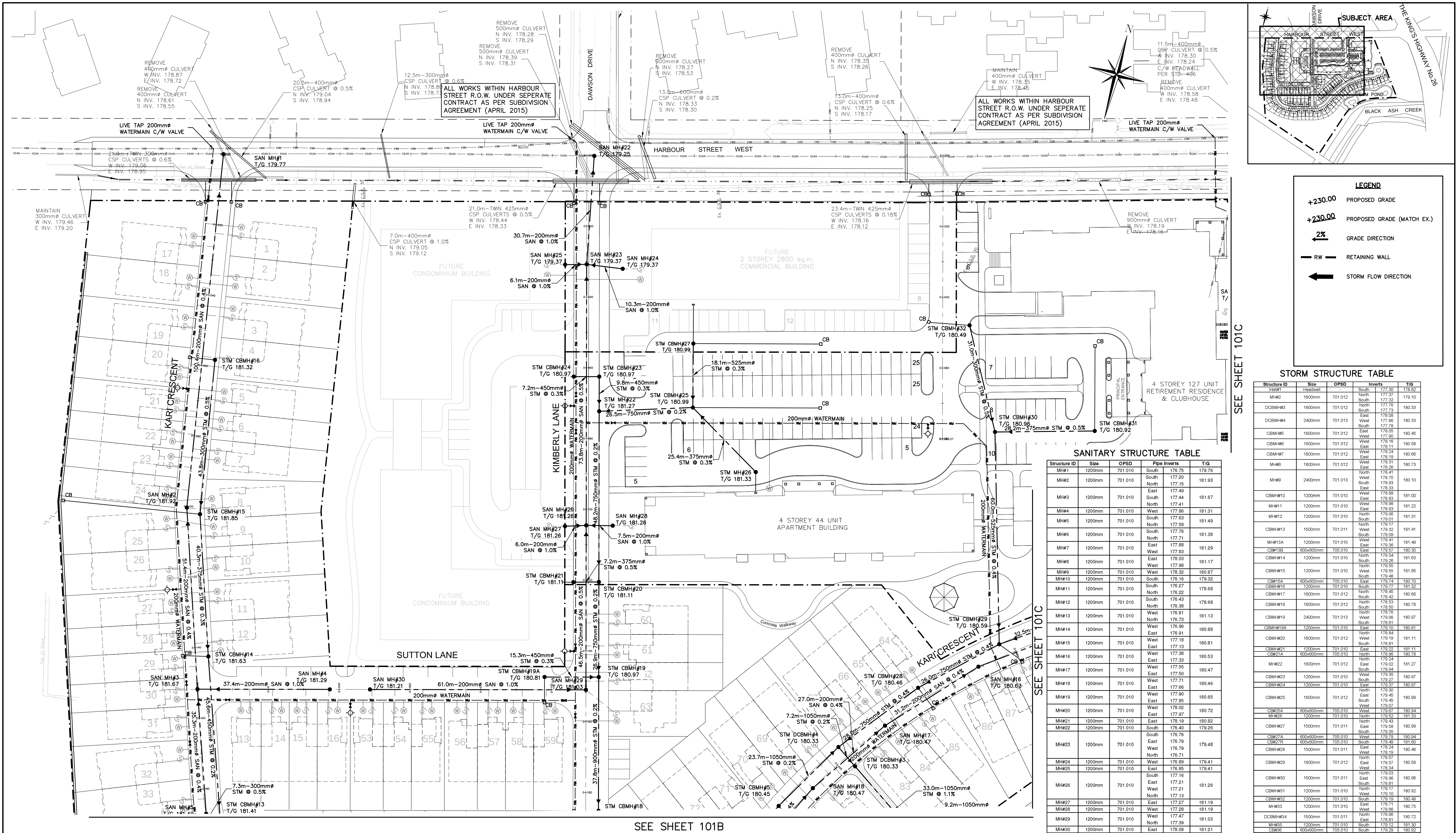


THE HARBOUREDGE BUILDING,
40 HURON STREET, SUITE 301,
COLLINGWOOD, ON L9Y 4R3
705 446-3510 T
705 446-3520 F
WWW.CFCROZIER.CA
INFO@CFCROZIER.CA

<u>DRAWING</u>	<u>TITLE</u>
100	SITE PLAN
101A	GENERAL SERVICING PLAN, NORTH–WEST
101B	GENERAL SERVICING PLAN, SOUTH–WEST
101C	GENERAL SERVICING PLAN, EAST
102A	GRADING PLAN, NORTH–WEST
102B	GRADING PLAN, SOUTH–WEST
102C	GRADING PLAN, EAST
102D	GRADING SECTIONS
103	SANITARY DRAINAGE AREA PLAN
104	STORM DRAINAGE AREA PLAN
105	WATER DISTRIBUTION PLAN
106A	STORM WATER MANAGEMENT POND
106B	STORM WATER MANAGEMENT POND FACILITY DETAILS
107	SEDIMENT EROSION CONTROL PLAN
108	DESIGN NOTES & TYPICAL SECTIONS
109	COMPOSITE UTILITY PLAN

<u>MASTER LEGEND</u>	
<u>EXISTING FEATURES (EX.)</u>	
	EX. CONTOUR
	EX. GRADE
	EX. TREELINE
	EX. WATERCOURSE
	EX. DITCH
	EX. WATERMAIN
	EX. WATER SERVICE
	EX. FIRE HYDRANT & VALVE
	EX. SANITARY SEWER & MANHOLE
	EX. SANITARY FORCEMAIN
	EX. SANITARY SERVICE
	EX. STORM SEWER & MANHOLE
	EX. STORM CATCHBASIN
	EX. STORM DOUBLE CATCHBASIN
	EX. STORM CATCHBASIN MANHOLE
	EX. STORM DOUBLE CATCHBASIN MANHOLE
	EX. GAS MAIN
	EX. BELL LINE
	EX. BELL PEDESTAL
	EX. CABLE TELEVISION PEDESTAL
	EX. HYDRO POLE
	EX. LIGHT STANDARD
	EX. SIGN
	EX. BUILDING
	EX. BENCHMARK NUMBER & LOCATION
	EX. BOREHOLE NUMBER & LOCATION
<u>PROPOSED FEATURES (PR.)</u>	
	PR. PROPERTY LIMITS
	PR. ELEVATION
	PR. ELEVATION (MATCH EX. ELEVATION)
	PR. SWALE & SLOPE
	PR. DITCH DRAINAGE
	PR. WATERMAIN & VALVE
	PR. WATER SERVICE
	PR. FIRE HYDRANT & VALVE
	PR. WATER VALVE CHAMBER
	PR. WATER QUALITY TESTING STATION
	PR. SANITARY SEWER & MANHOLE
	PR. SANITARY FORCEMAIN
	PR. SANITARY SERVICE
	PR. SANITARY CATCHMENT
	SANITARY CATCHMENT POPULATION (3.5ppu)
	SANITARY CATCHMENT AREA (ha)
	PR. STORM SEWER & MANHOLE
	PR. CATCHBASIN
	PR. DOUBLE CATCHBASIN
	PR. CATCHBASIN MANHOLE
	PR. DOUBLE CATCHBASIN MANHOLE
	PR. STORM CATCHMENT
	AREA (ha)
	RUN-OFF CO-EFFICIENT (5 YEAR)
	AREA ID
	PR. CURB CUT
	PR. CANADA POST COMMUNITY MAIL BOX
	PR. TRANSFORMER
	PR. STOP SIGN
	PR. NAME SIGN
	PR. NO PARKING SIGN
	PR. FENCE
	PR. HEAVY DUTY SILT FENCE
	PR. STRAW BALE CHECK FLOW
	PR. ROCK CHECK DAM
	PR. SLOPE (3:1 MAX.)
	SECTION I.D.
	SECTION DETAIL
	SHEET NUMBER

PROJECT No.: 362-4007



LEGEND

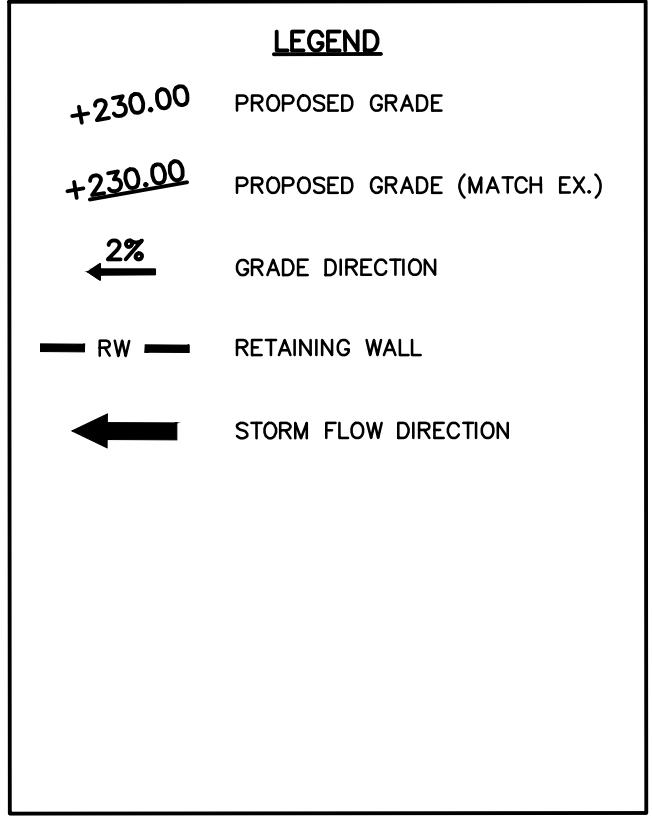
+230.00	PROPOSED GRADE
+230.00	PROPOSED GRADE (MATCH EX.)
2%	GRADE DIRECTION
— RW —	RETAINING WALL
←	STORM FLOW DIRECTION

STORM STRUCTURE TABLE

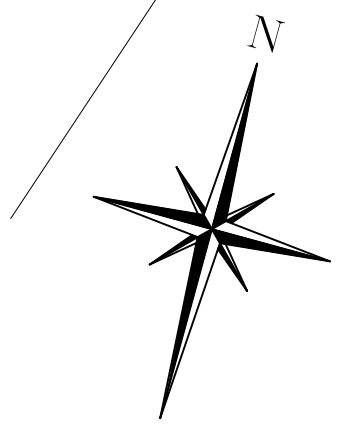
Structure ID	Size	OPSD	Inverts	T/G
MH#1	1800mm	701.012	South 177.30 North 177.37	178.82
DCBMH#3	1800mm	701.012	North 177.32 South 177.73	180.33
DCBMH#4	2400mm	701.013	West 177.86 East 178.05	180.33
CBMH#5	1800mm	701.012	West 178.16 East 178.11	180.45
CBMH#6	1800mm	701.012	West 178.24 East 178.19	180.66
CBMH#7	1800mm	701.012	West 178.26 East 178.26	180.73
MH#8	2400mm	701.013	North 177.41 West 178.70	180.10
CBMH#10	1200mm	701.010	West 178.33 East 178.83	181.00
MH#11	1200mm	701.010	West 178.98 East 178.93	181.22
MH#12	1200mm	701.010	North 179.06 South 179.01	181.31
CBMH#13	1500mm	701.011	West 179.32 East 179.09	181.41
MH#13A	1200mm	701.010	West 179.41 East 179.36	181.49
CB#13B	600x600mm	705.010	East 179.57 West 179.34	180.30
CBMH#14	1200mm	701.010	North 179.26 South 179.55	181.63
CBMH#15	1200mm	701.010	North 179.55 South 179.77	181.65
CB#15A	600x600mm	705.010	East 179.74 West 179.77	180.70
CBMH#16	1200mm	701.010	North 179.77 South 179.53	181.32
CBMH#17	1800mm	701.012	North 178.45 South 178.42	180.66
CBMH#18	1800mm	701.012	North 178.06 South 178.61	180.78
CBMH#19	2400mm	701.013	North 178.76 West 179.06	180.97
CBMH#19A	1200mm	701.010	East 179.10 North 179.84	180.81
CBMH#20	1800mm	701.012	West 179.19 South 178.81	181.11
CBMH#21	1200mm	701.010	East 179.22 North 179.24	181.11
CB#21A	600x600mm	705.010	North 179.96 East 179.35	180.78
MH#22	1800mm	701.012	North 179.02 East 178.94	181.27
CBMH#23	1200mm	701.010	North 179.30 South 179.27	180.97
CBMH#24	1200mm	701.010	East 179.37 West 179.07	180.97
CBMH#25	1800mm	701.012	East 179.45 West 179.07	180.99
CB#25A	600x600mm	705.010	West 179.67 North 179.52	180.84
MH#26	1200mm	701.010	North 179.52 South 179.35	181.33
CBMH#27	1500mm	701.011	East 179.58 South 179.35	180.99
CB#27A	600x600mm	705.010	West 179.79 South 179.48	180.94
CB#27B	600x600mm	705.010	South 179.48 West 179.19	181.02
CBMH#28	1500mm	701.011	East 178.24 West 178.34	180.46
CBMH#29	1800mm	701.012	North 178.57 East 178.57	180.59
CBMH#30	1500mm	701.011	North 179.03 East 178.96	180.96
CBMH#31	1200mm	701.010	North 179.17 West 179.10	180.92
CBMH#32	1200mm	701.010	North 179.18 South 179.15	180.48
MH#33	1200mm	701.010	East 178.71 West 178.66	180.75
DCBMH#34	1500mm	701.011	East 178.81 West 178.81	180.72
MH#35	1200mm	701.010	South 179.12 East 179.29	181.30
CB#36	600x600mm	705.010	South 179.29	180.92

SANITARY STRUCTURE TABLE

Structure ID	Size	OPSD	Pipe Inverts	T/G
MH#1	1200mm	701.010	South 178.73 North 177.20	179.78
MH#2	1200mm	701.010	South 177.15 North 177.44	181.93
MH#3	1200mm	701.010	East 177.49 South 177.41	181.67
MH#4	1200mm	701.010	West 177.85 North 177.41	181.31
MH#5	1200mm	701.010	South 177.63 North 177.59	181.49
MH#6	1200mm	701.010	North 177.71 West 177.88	181.38
MH#7	1200mm	701.010	East 177.83 West 178.03	181.29
MH#8	1200mm	701.010	West 178.03 East 177.99	181.17
MH#9	1200mm	701.010	West 178.32 South 178.16	180.87
MH#10	1200mm	701.010	South 178.32 North 178.22	179.32
MH#11	1200mm	701.010	South 178.27 North 178.22	178.68
MH#12	1200mm	701.010	South 178.43 North 178.38	178.68
MH#13	1200mm	701.010	West 178.81 North 178.73	181.13
MH#14	1200mm	701.010	East 178.91 West 177.18	180.88
MH#15	1200mm	701.010	East 177.13 West 177.38	180.81
MH#16	1200mm	701.010	East 177.33 West 177.50	180.53
MH#17	1200mm	701.010	West 177.55 East 177.50	180.47
MH#18	1200mm	701.010	West 177.71 East 177.68	180.46
MH#19	1200mm	701.010	West 177.90 East 177.85	180.65
MH#20	1200mm	701.010	West 178.02 East 178.02	180.72
MH#21	1200mm	701.010	West 178.40 South 178.40	180.82
MH#22	1200mm	701.010	South 178.40 West 178.76	179.26
MH#23	1200mm	701.010	West 178.79 East 178.71	179.48
MH#24	1200mm	701.010	West 178.89 East 178.85	179.41
MH#25	1200mm	701.010	South 177.18 West 177.21	179.41
MH#26	1200mm	701.010	West 177.21 South 177.13	181.26
MH#27	1200mm	701.010	East 177.27 West 177.28	181.19
MH#28	1200mm	701.010	West 177.47 North 177.49	181.03
MH#29	1200mm	701.010	North 177.49 East 178.08	181.21
MH#30	1200mm	701.010	East 178.08	181.21

[illegible]

NOTE:
ALL FILL ENTERING THE SITE SHALL COMPLY WITH
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"MANAGEMENT OF EXCESS SOIL GUIDE - A GUIDE
FOR BEST PRACTICES".



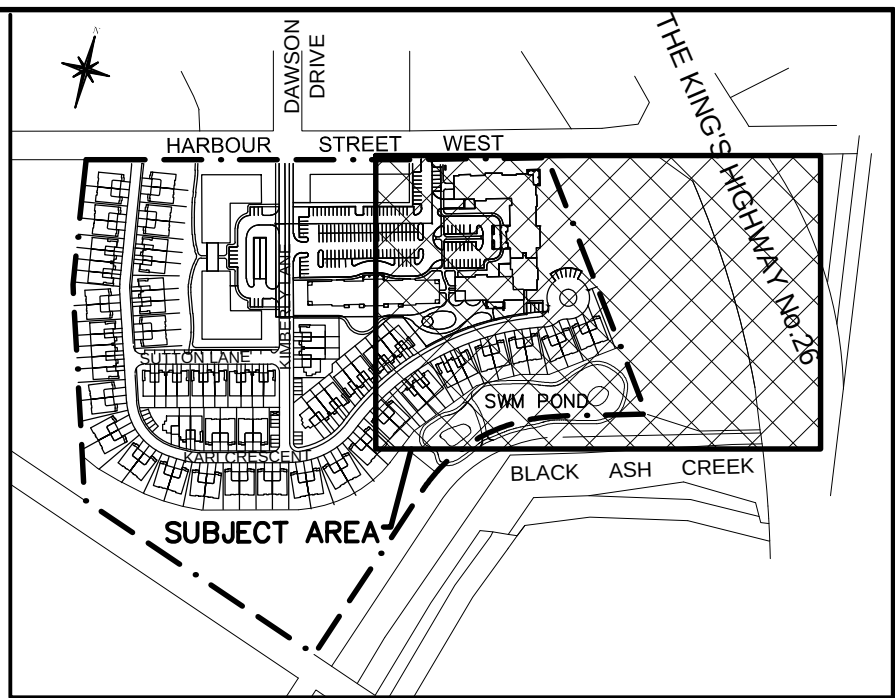
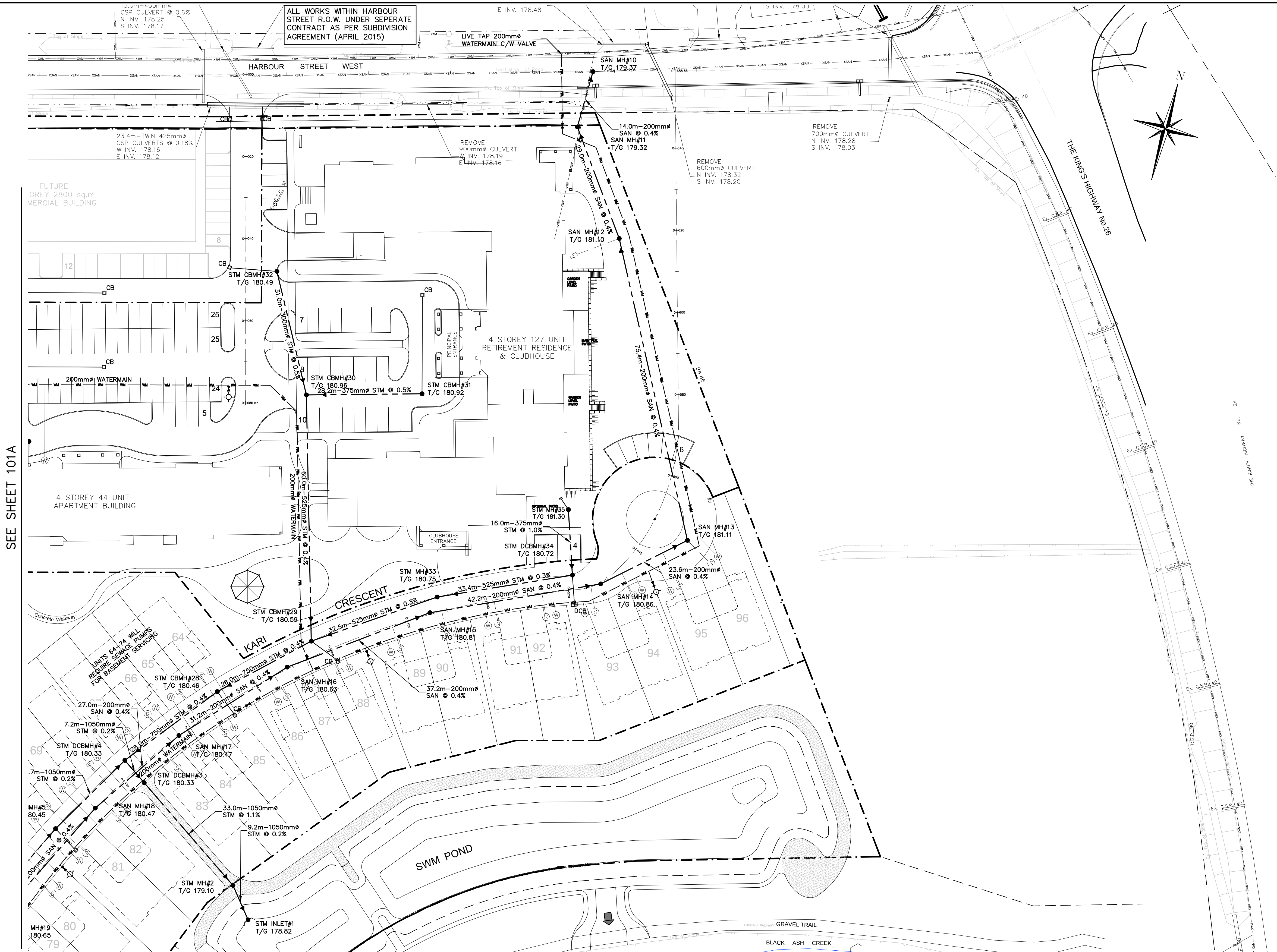


**CROZIER
& ASSOCIATES**

Consulting Engineers

THE HARBOUREDGE BUILDING,
40 HURON STREET, SUITE 301,
COLLINGWOOD, ON L9Y 4R3
705 446-3520 F
705 446-3520 F
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INFO@CFCROZIER.CA

Drawn By	J.O.	Design By	S.W.	Project	362-4007
Scale	1:500	Date	06/29/2015	Check By	101B
				D.T.	Drawing



LEGEND

+230.00 PROPOSED GRADE

+230.00 PROPOSED GRADE (MATCH EX.)

2% GRADE DIRECTION

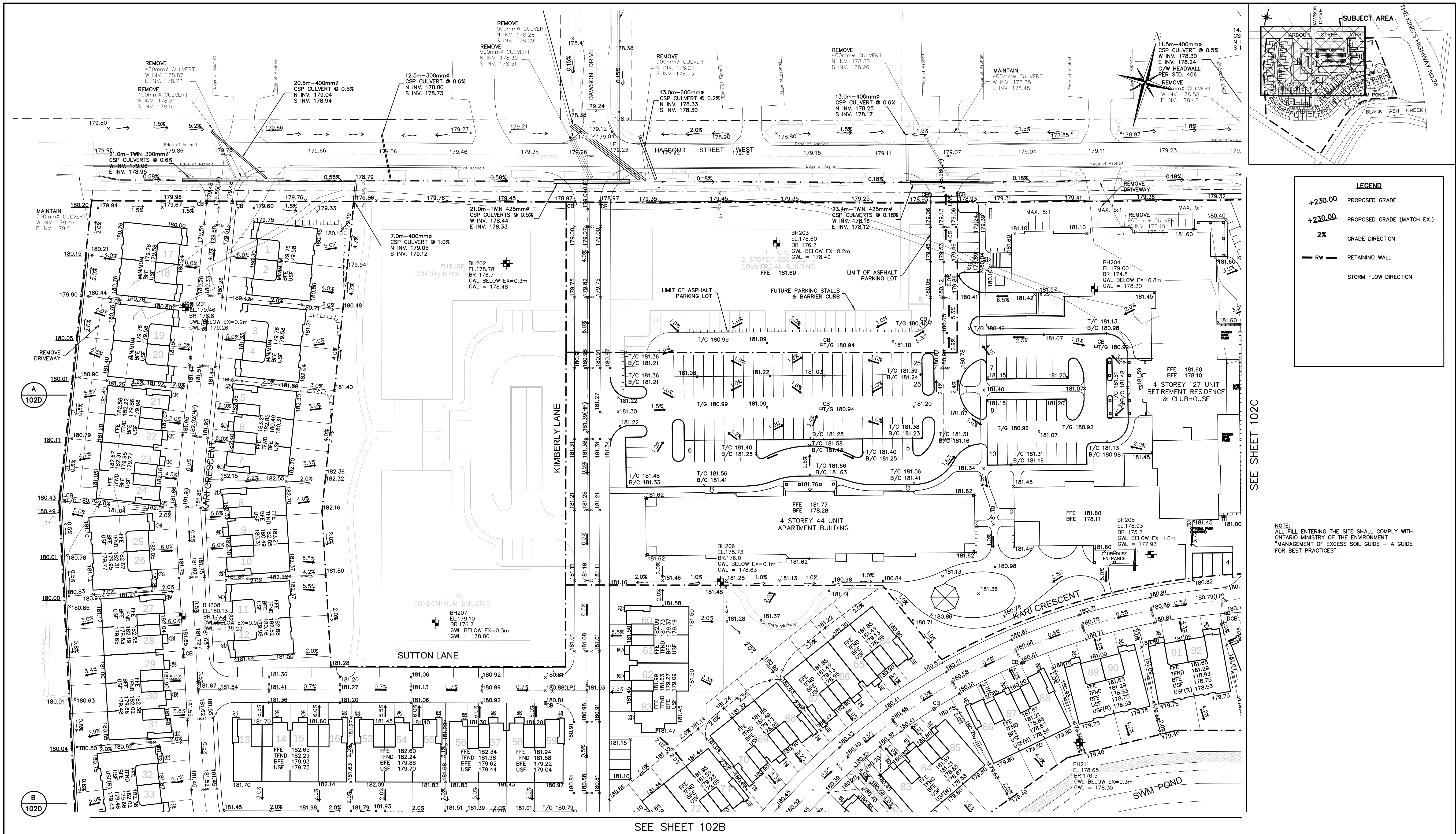
— RW — RETAINING WALL

← STORM FLOW DIRECTION

— DRAFT PLAN BLOCK LIMIT (DATED NOV 30, 2014)

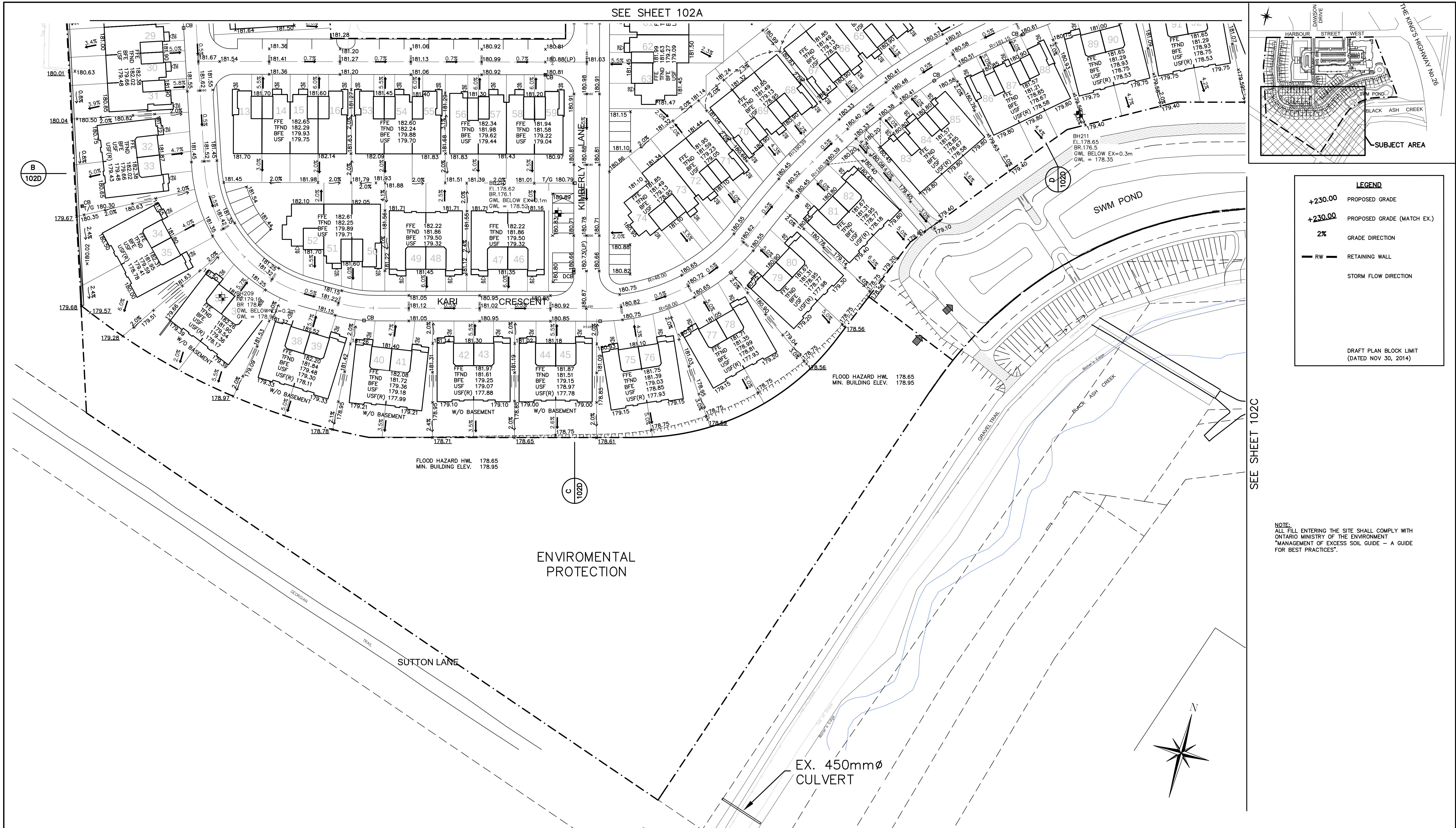
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Drawn By J.O. Design By S.W. Project 362-4007 Scale 1:500 Date 06/29/2015 Check By D.T. Drawing 102A																																					

SEE SHEET 102A



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BENCHMARKS
GEODETIC BENCHMARK 72U313 HAVING AN ELEVATION OF 179.63.

TEMPORARY BENCHMARKS

TBM#1—
TBM#2—
TBM#3—

	Town
--	------

[illegible]

Engineer

Engine

Project

BALMORAL VILLAGE – SITE PLAN
TOWN OF COLLINGWOOD

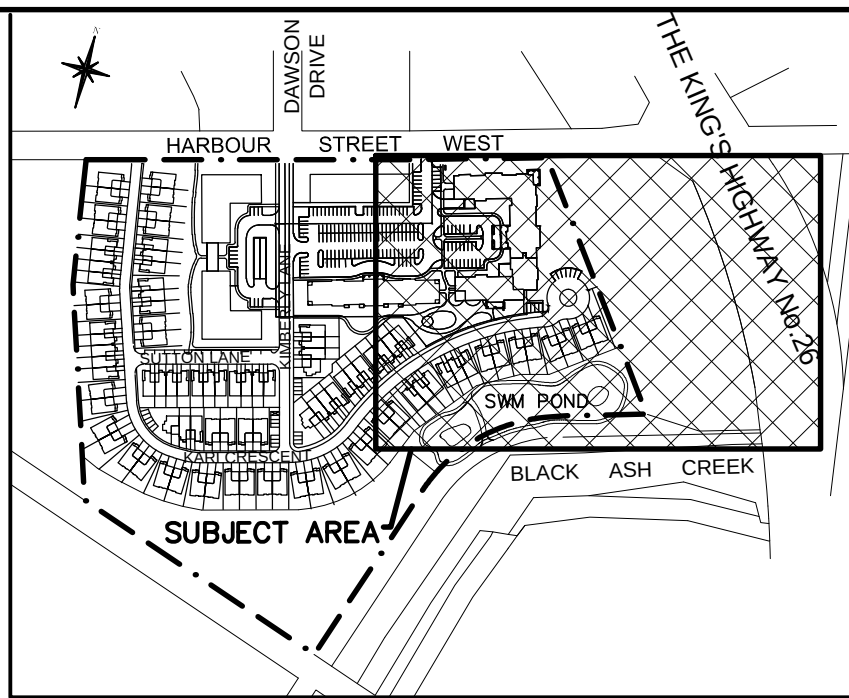
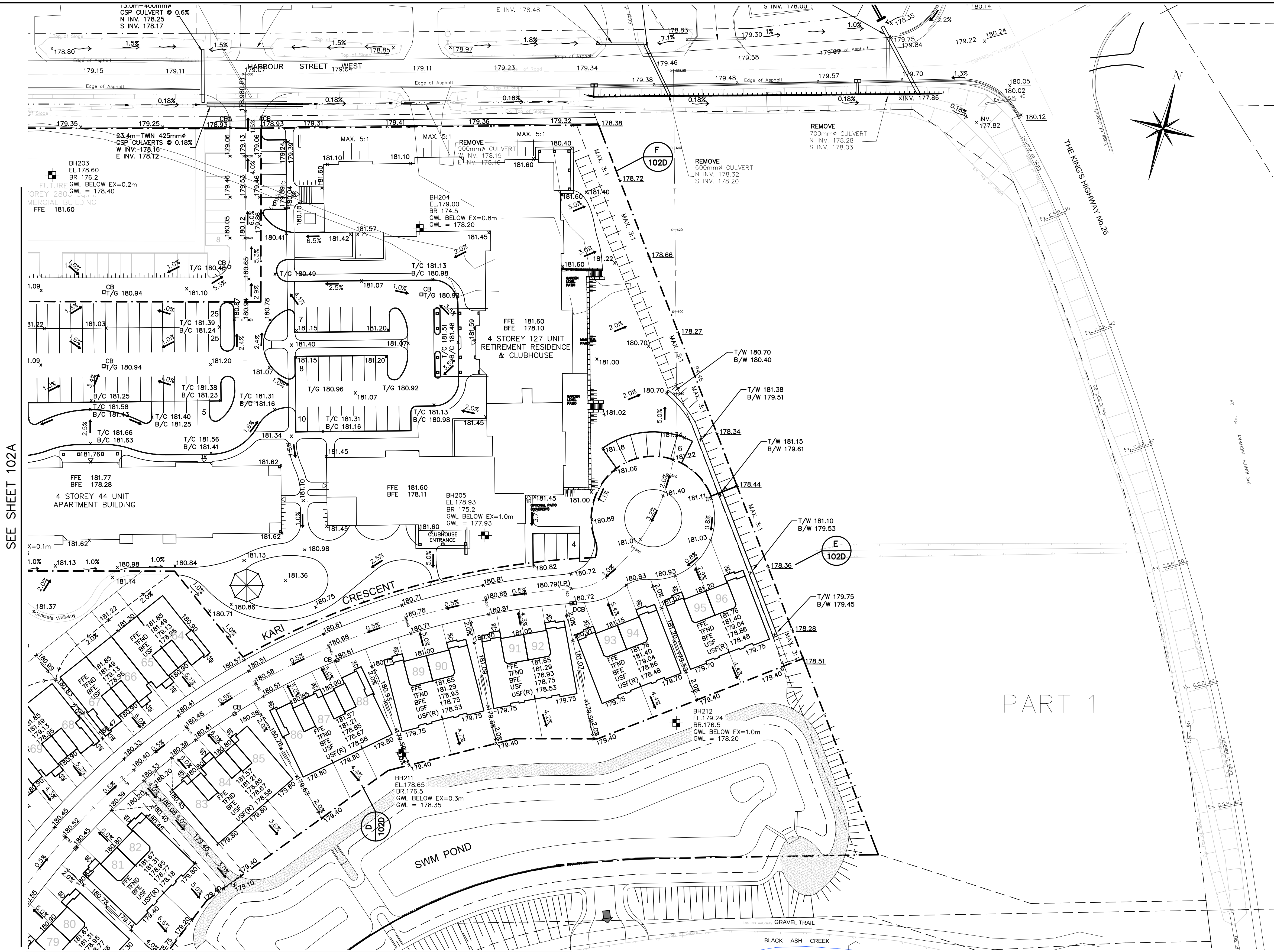
Drawing

GRADING PLAN – SOUTH–WEST



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40 HURON STREET, SUITE 301,
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Drawn By		J.O.		Design By		S.W.		Project		362-4007	
Scale		1:500		Date		06/29/2015		Check By		D.T.	
								Drawing		102B	



LEGEND

+230.00 PROPOSED GRADE

+230.00 PROPOSED GRADE (MATCH EX.)

2% GRADE DIRECTION

— RW — RETAINING WALL

STORM FLOW DIRECTION

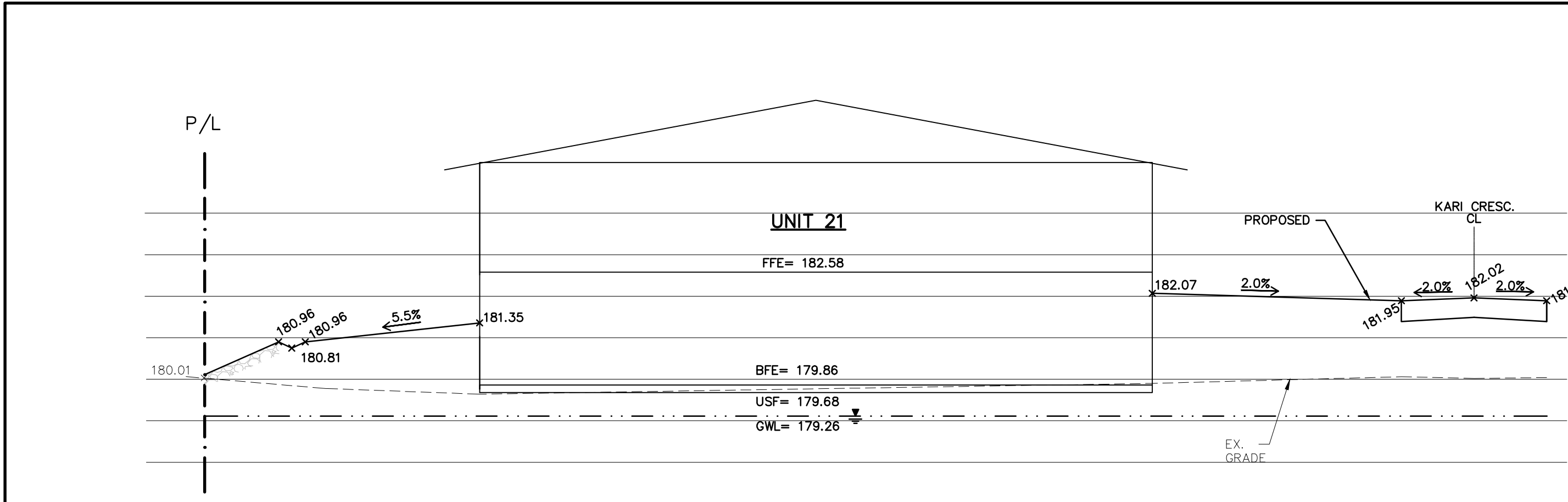
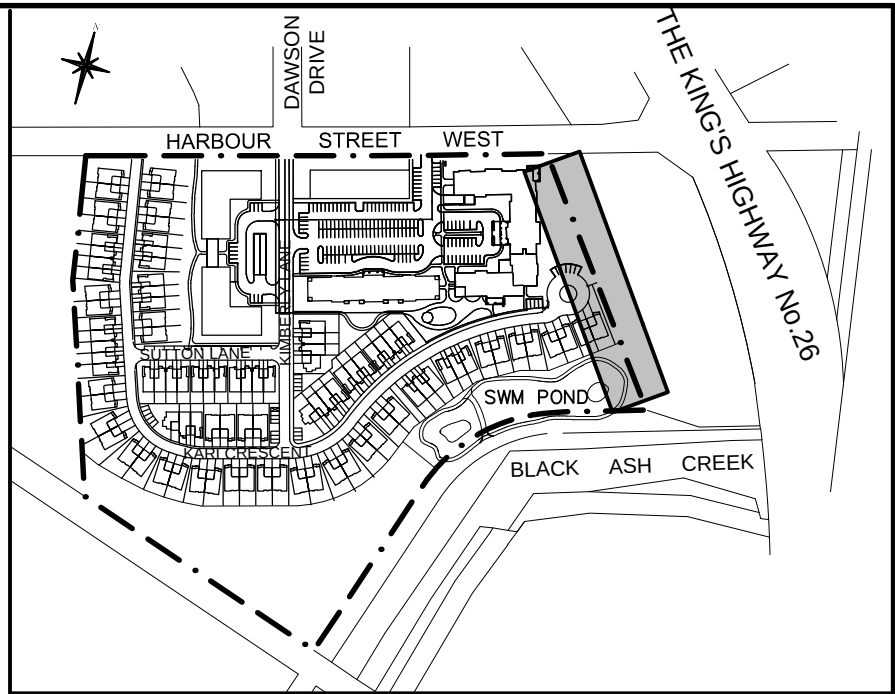
DRAFT PLAN BLOCK LIMIT
(DATED NOV 30, 2014)

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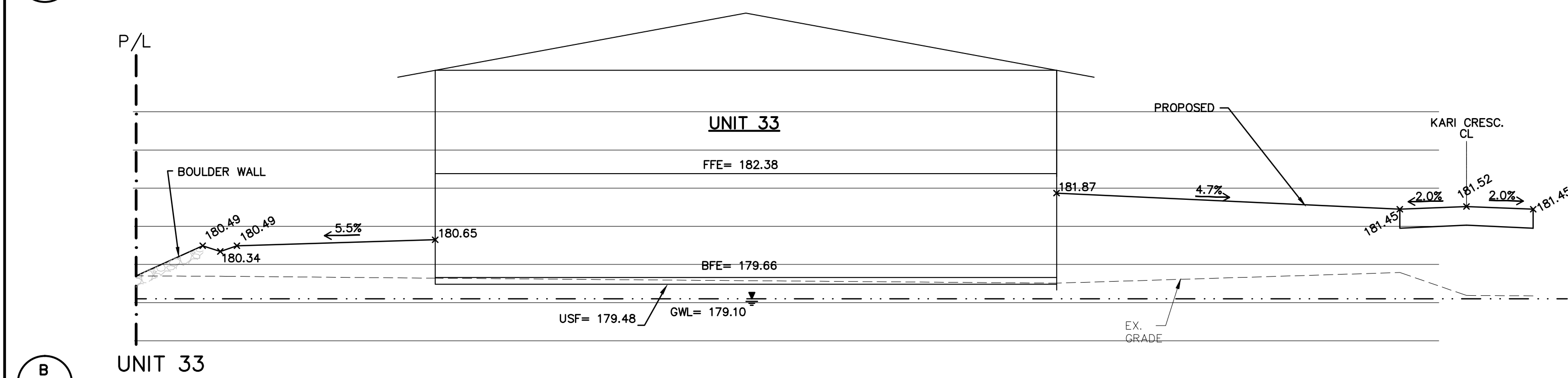
SEE SHEET 102A

SEE SHEET 102B

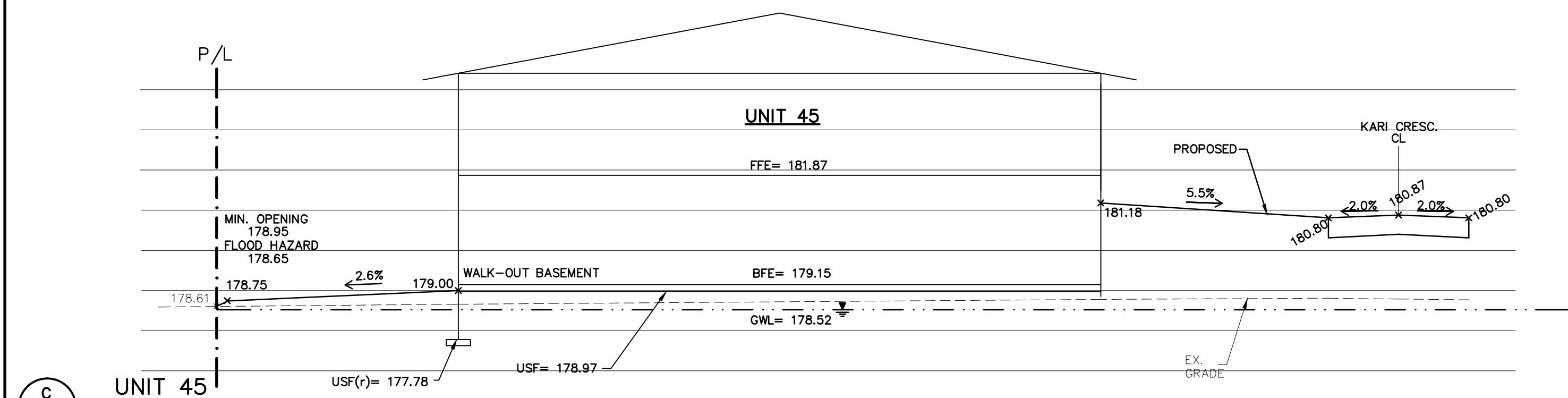
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										Drawing GRADING PLAN — EAST		Drawn By J.O. Design By S.W. Project 362—4007																																									
										Scale 1:500 Date 06/29/2015 Check By D.T. Drawing 102C																																											



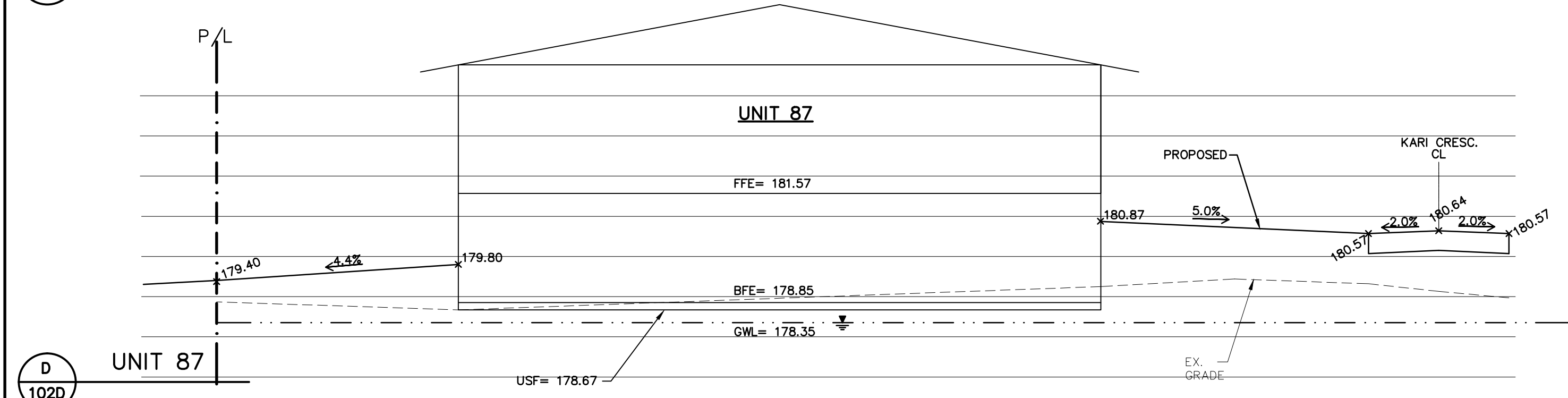
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UNIT 21



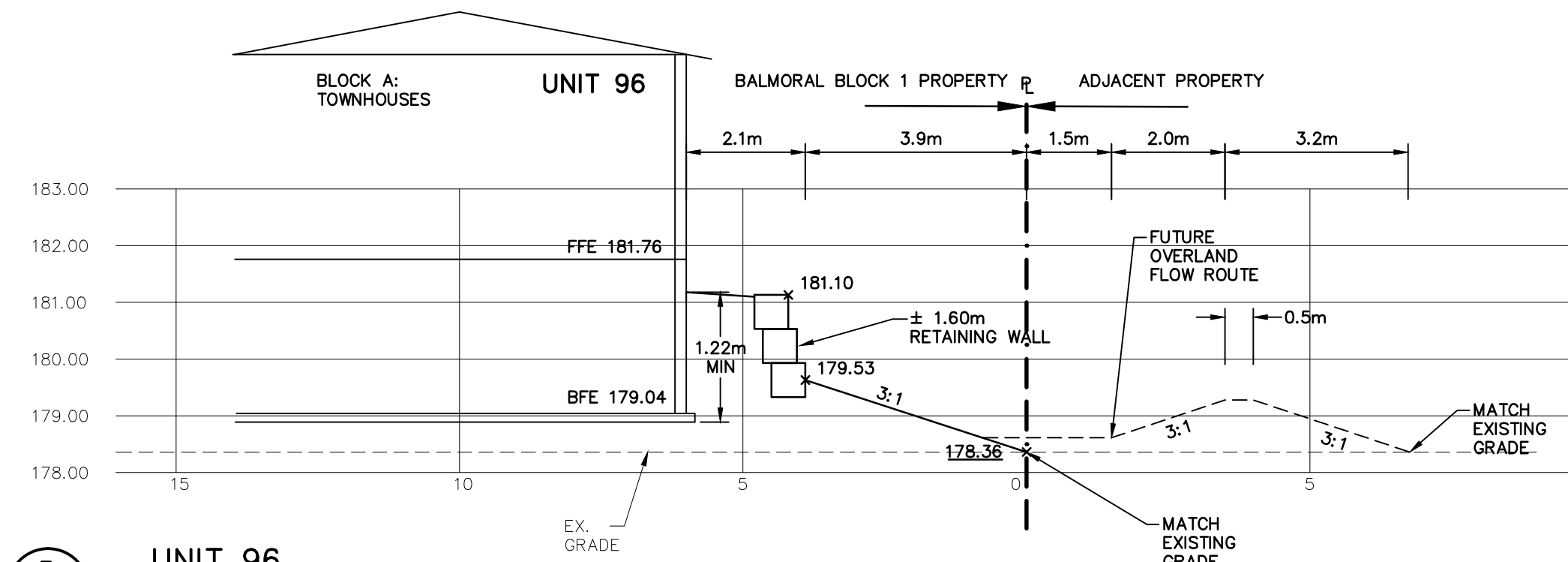
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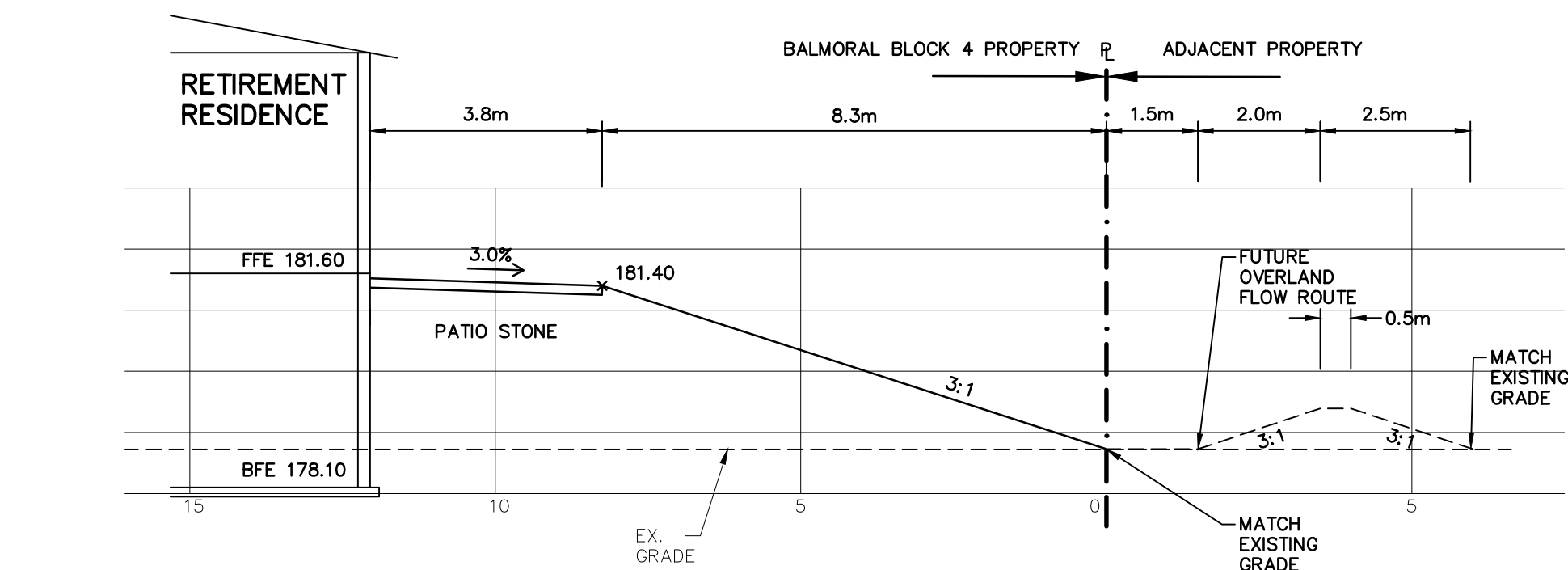
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102D
UNIT 45



D
102D
UNIT 87



E
102D
UNIT 96



F
102D
RETIREMENT RESIDENCE

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BENCHMARKS
GEODETIC BENCHMARK 72U313 HAVING AN ELEVATION OF 179.63.
TEMPORARY BENCHMARKS
TBM#1—
TBM#2—
TBM#3—

Town

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
0	FIRST SUBMISSION	07/22/2015

Engineer

Engineer

Project

BALMORAL VILLAGE – SITE PLAN
TOWN OF COLLINGWOOD

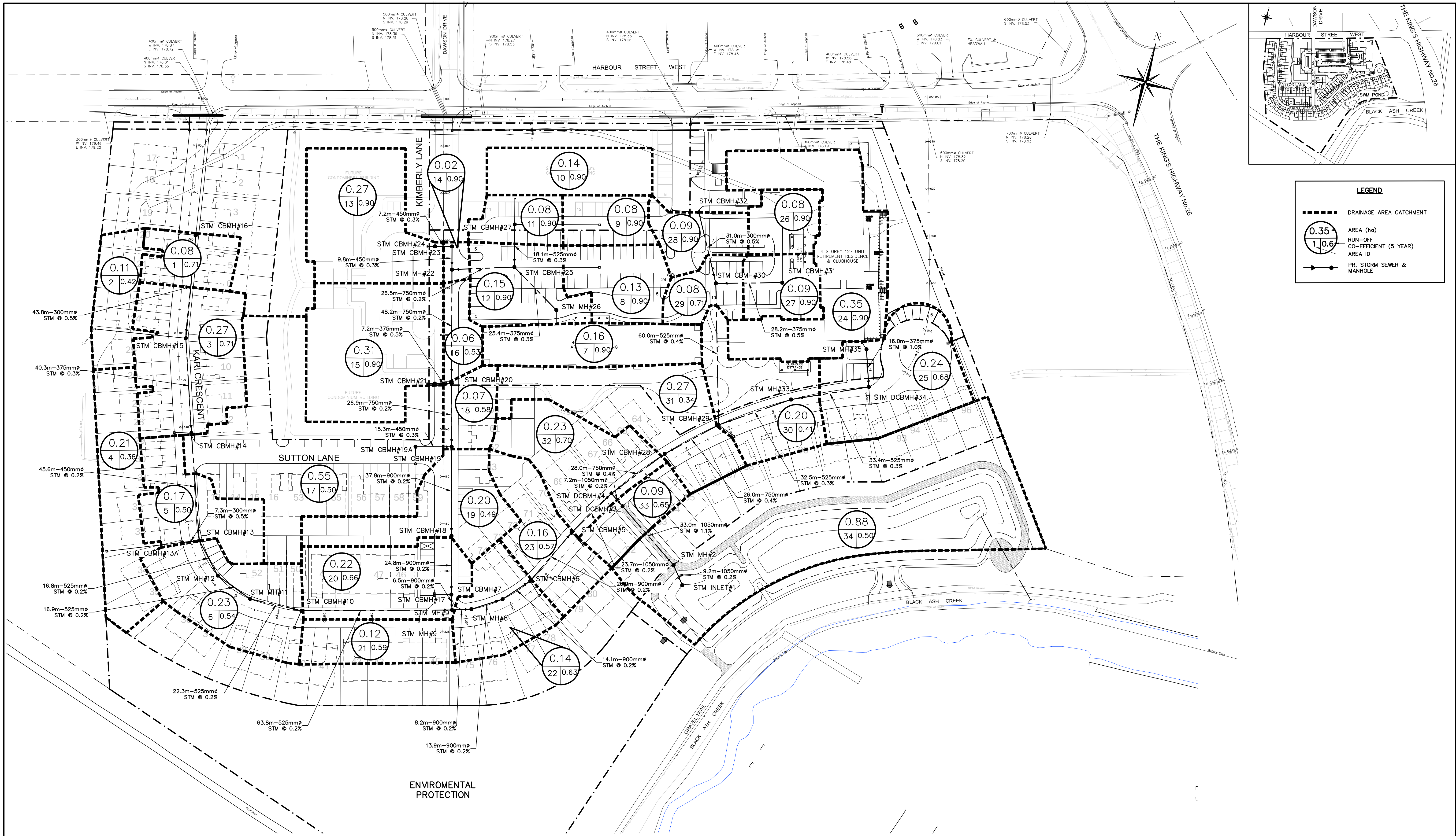
Drawing

OVERLAND STORM RELIEF CHANNEL SECTIONS

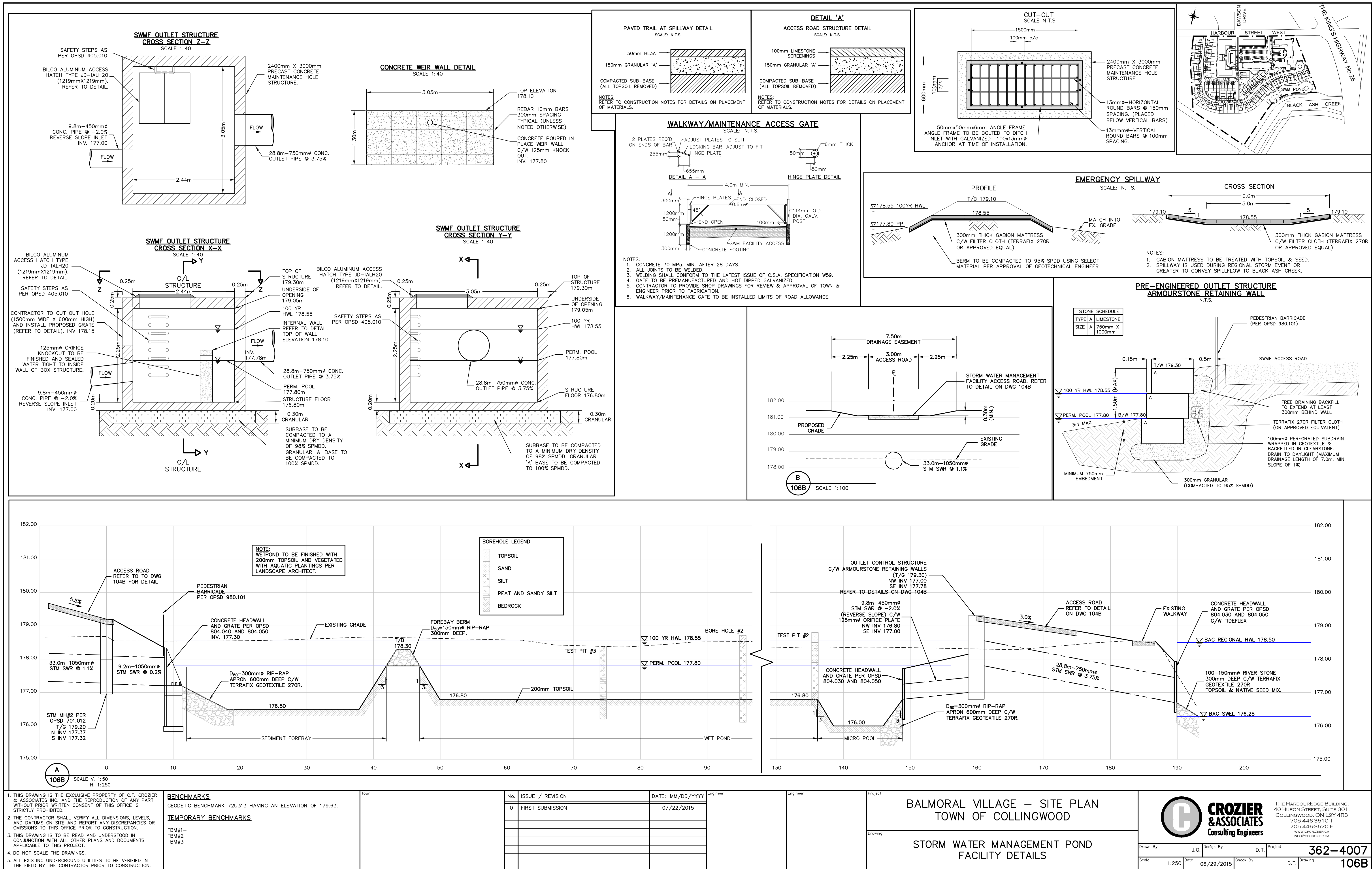


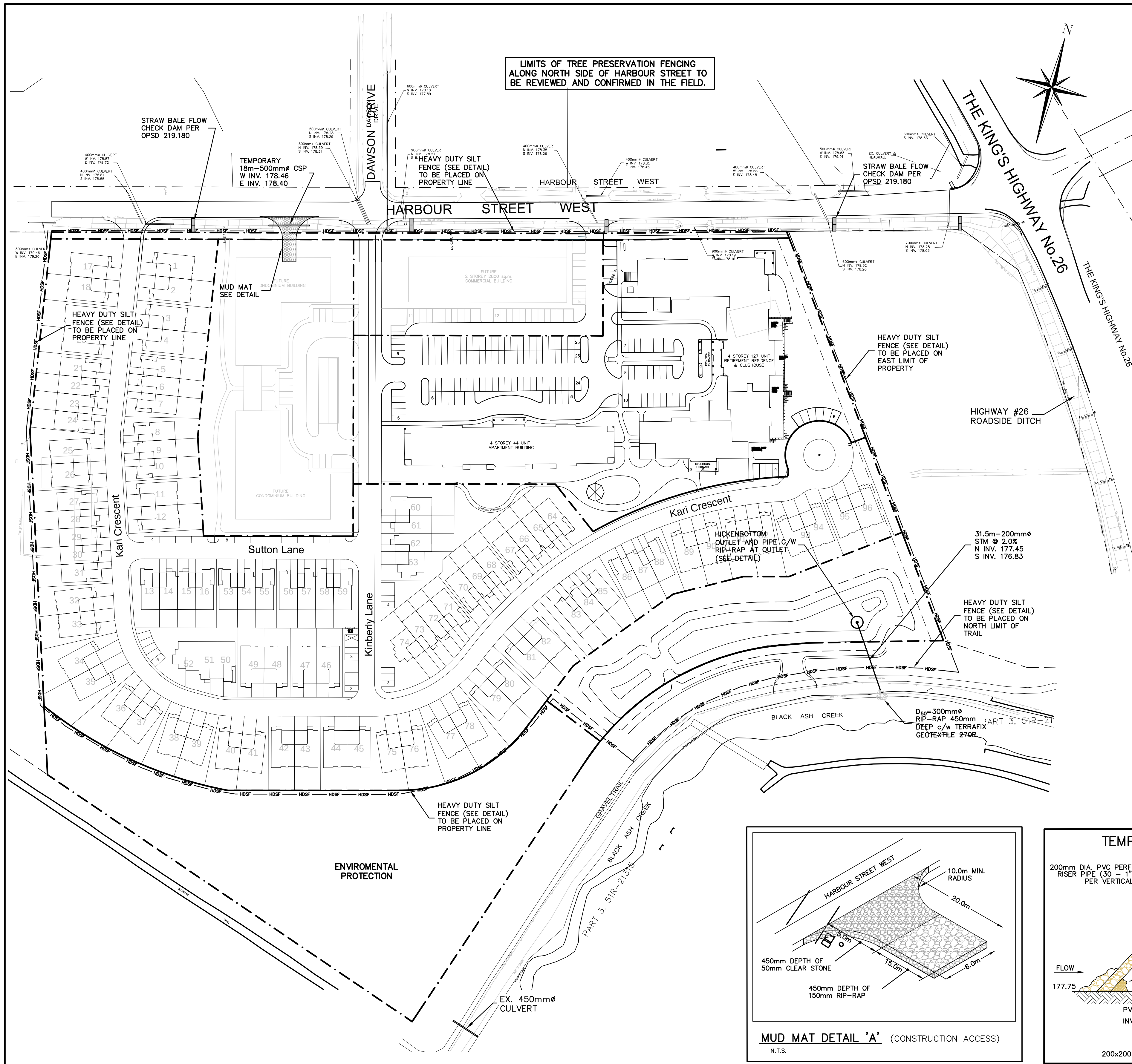
THE HARBOUREDGE BUILDING,
40 HURON STREET, SUITE 301,
COLLINGWOOD, ON L9Y 4R3
705 446-3510 T
705 446-3520 F
WWW.CFCROZIER.CA
INFO@CFCROZIER.CA

Drawn By	J.O.	Design By	J.O.	Project	362-4007
Scale	1:100	Date	06/29/2015	Check By	D.T.
					102D



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4. DO NOT SCALE THE DRAWINGS.																			Scale	1:750	Date	06/29/2015	Check By	D.T.	Drawing	104
5. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.																										





GENERAL NOTES:

- No maintenance or repair work on construction equipment is allowed within 30 metres of an existing water course or ditch.
- All Sediment and Erosion control facilities and works are to be constructed and in place to the approval of the Site Engineer prior to any grading operations commencing. Typical works include silt fences, construction access mud mat and rock check dams and straw bale flow checks.
- All temporary topsoil stockpiles are to be provided with the necessary sediment and erosion control features. If stockpiles are to remain for a period longer than 30 days, stockpiles shall be hydroseeded and surrounded with silt fence.
- The Site Project Engineer and Contractor shall undertake weekly inspections of all sediment/erosion control facilities during the extent of the entire construction project as well as after all rain events 13 millimetres or greater. The weekly inspections are to be completed on an Erosion and Sediment Control Inspection Report.
- The Site Engineer shall provide weekly status reports to the Municipality and Conservation Authority advising of the condition of structures and maintenance works that have been undertaken.
- During the construction period, a street cleaning schedule will be undertaken on a minimum weekly basis, or as directed by the Site Engineer or Municipality.

CONSTRUCTION IMPLEMENTATION:

A. Pre-Construction

- Site Engineer to advise Conservation Authority of staff responsible for site sediment control supervision, inspection and maintenance, including after hour contacts.
- Site Engineer to provide written inspection and maintenance schedule of sediment control devices.
- Contractor to install all sediment control devices as identified on the approved erosion control plan prior to implementation of topsoil stripping or earthworks operations.

B. During Construction (Site and Building Works)

- Contractor to ensure topsoil, stripping, grading and underground works conform to approved grading, servicing and erosion control plans.
- Site Engineer to conduct required weekly inspection, maintenance and reporting of sediment controls to the Conservation Authority.
- Contractor to stabilize site as required throughout site construction schedule.

C. Post Construction (Including Building Construction)

- Contractor to complete final site stabilization and revegetation works.
- Contractor to remove all sediment control devices after the Site is stabilized to a condition equal to, or better than, pre-construction and as directed by Site Engineer.

MAINTENANCE & OPERATIONS OF SEDIMENT CONTROLS

A) Silt Fence

- Silt fence must be inspected weekly for rips or tears, broken stakes, blow-outs and accumulation of sediment.
- Silt fence must be inspected following all 13mm or greater rain storm event or as directed by Site Engineer.
- Sediment must be removed from silt fence when accumulation reaches 50% of the height of the fence.
- All silt fences must be removed only when the entire site is stabilized and as directed by the Site Engineer.

B) Rock Flow Check Dam

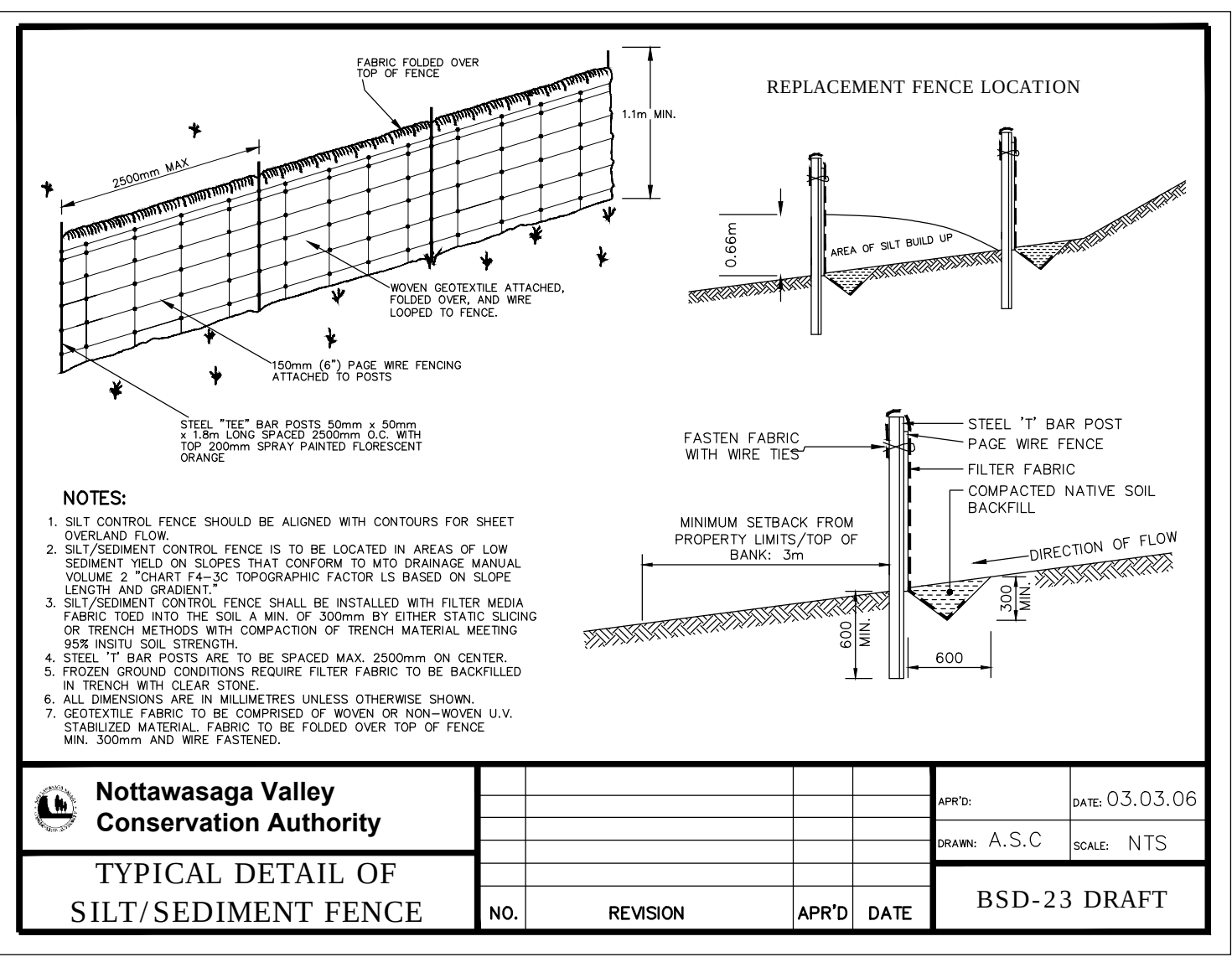
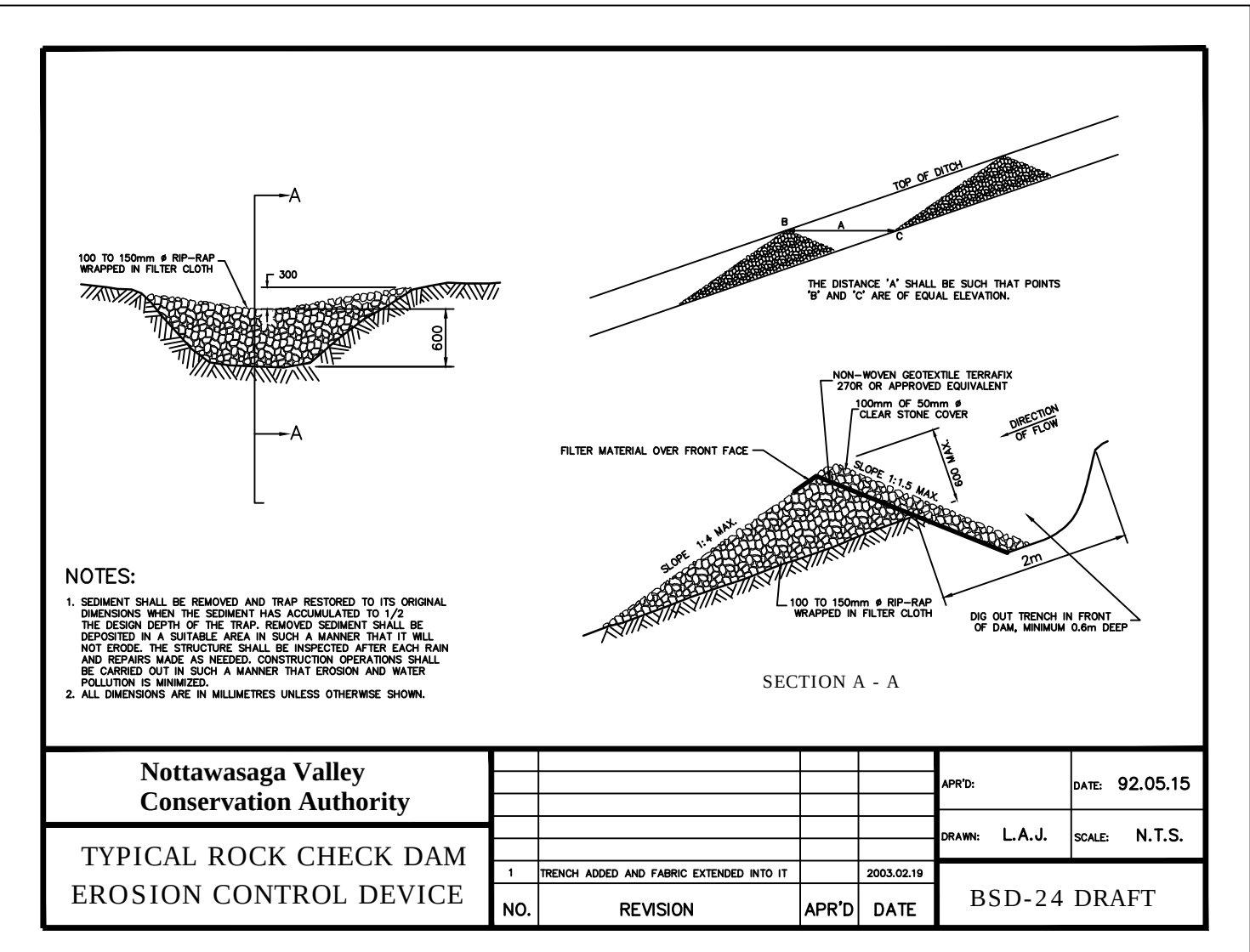
- Remove accumulated sediment up stream of the check dam if greater than 50% of dam height.
- Silt removal must be undertaken with care to minimize down stream sedimentation in swale or ditch.
- Rock Check Dam and all accumulated sediment must be removed with care once the construction site is stabilized and as directed by the Site Engineer.

C) Straw Bale Flow Check

- Remove accumulated sediment up stream of the straw bale check dam if greater than 50% of dam height.
- Silt removal must be undertaken with care to minimize down stream sedimentation in swale or ditch.
- Straw Bale Flow Check and all accumulated sediment must be removed with care once the construction site is stabilized and as directed by the Site Engineer.

LEGEND

- SILT FENCE PER DETAIL BSD-23
- ROCK CHECK DAM PER DETAIL BSD-24
- STRAW BALE CHECK FLOW (PER OPSD 219.180)
- MUD MAT (REFER TO DETAIL)



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BENCHMARKS

GEODETIC BENCHMARK 72U313 HAVING AN ELEVATION OF 179.63.

TEMPORARY BENCHMARKS

TBM#1-
TBM#2-
TBM#3-

Town

No.	ISSUE / REVISION	DATE: MM/DD/YYYY	Engineer
0	FIRST SUBMISSION	07/22/2015	

Engineer

Project

Drawing

BALMORAL VILLAGE – SITE PLAN

TOWN OF COLLINGWOOD

SEDIMENT EROSION CONTROL PLAN

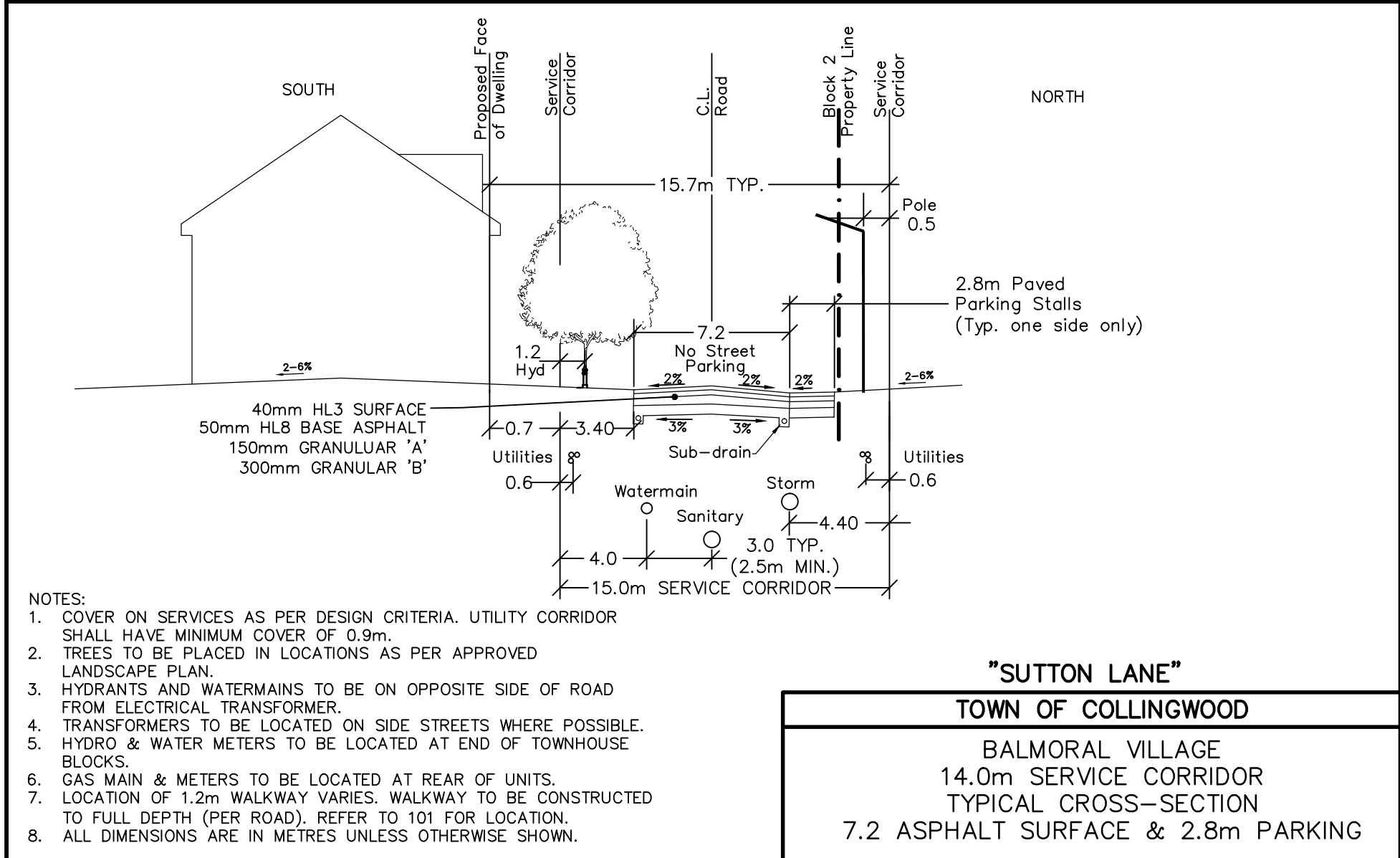
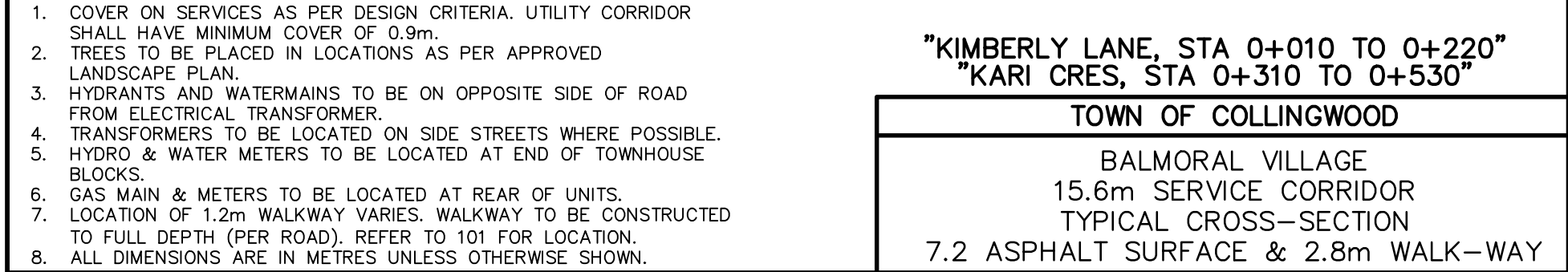
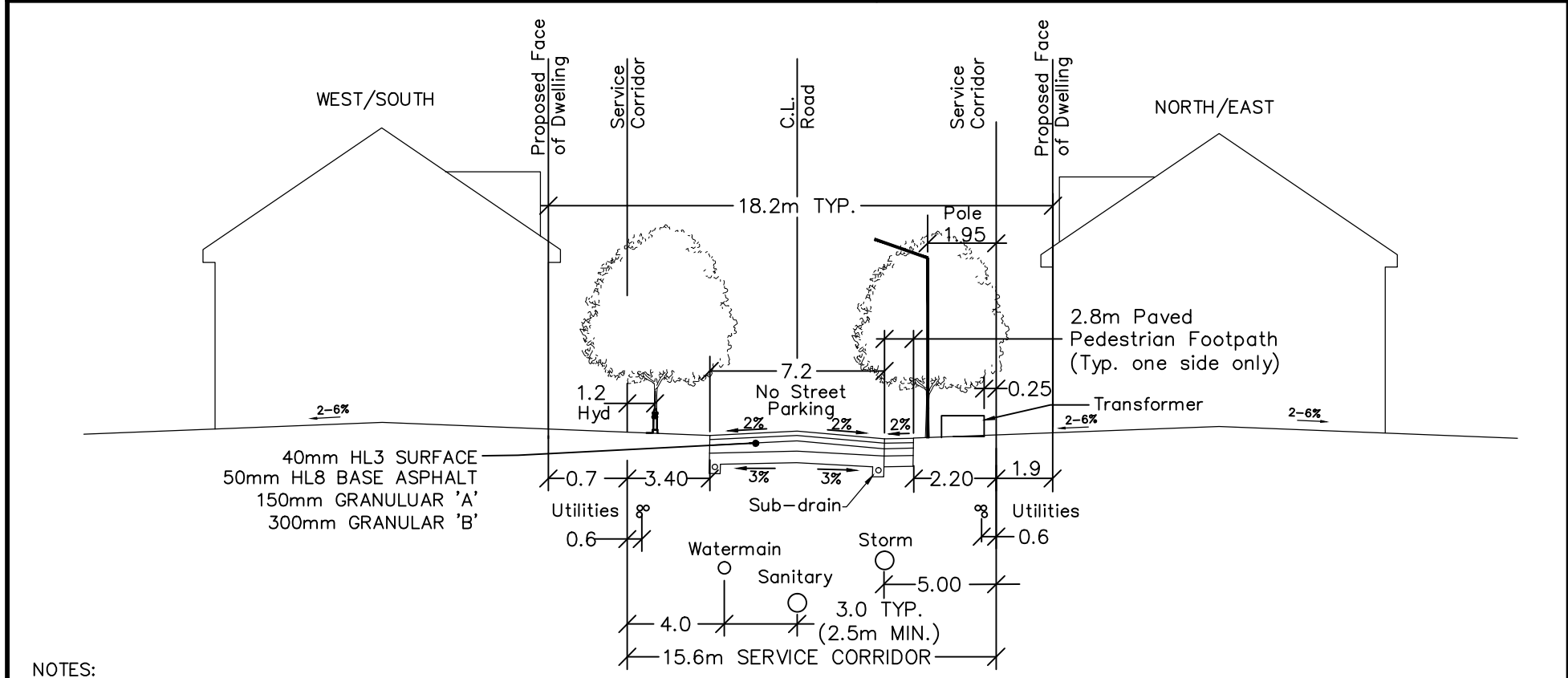
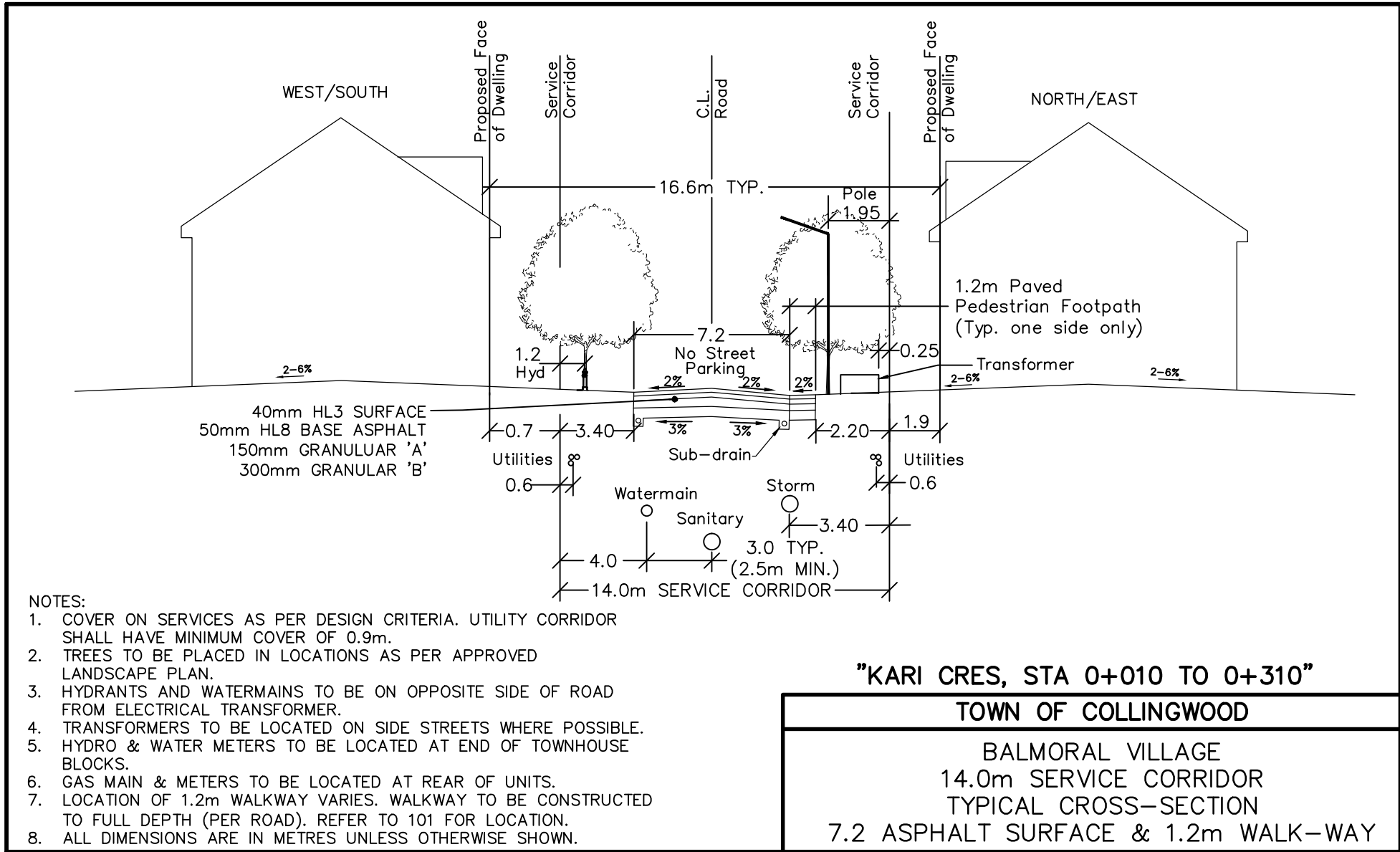
CROZIER & ASSOCIATES

Consulting Engineers

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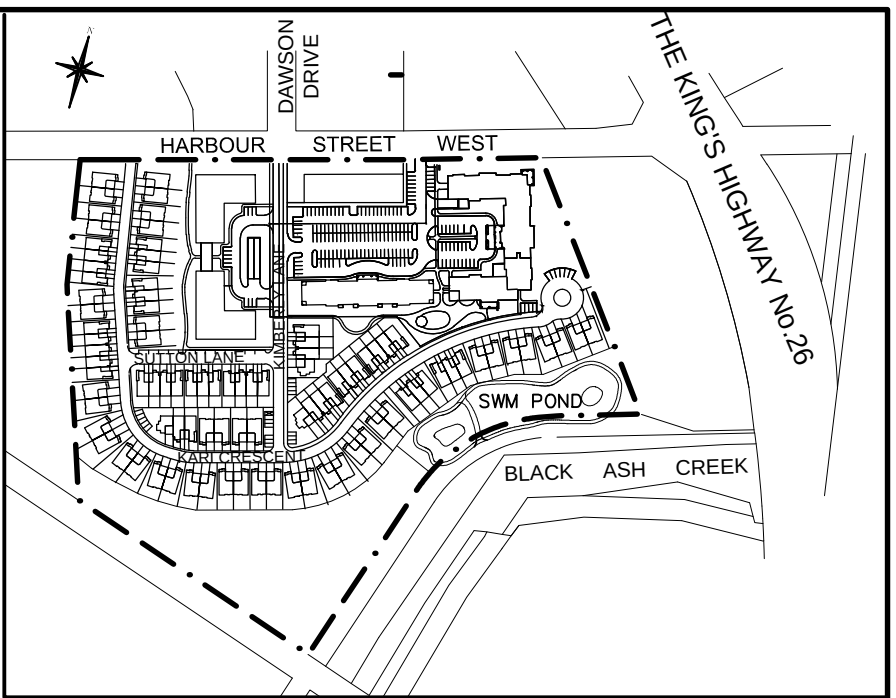
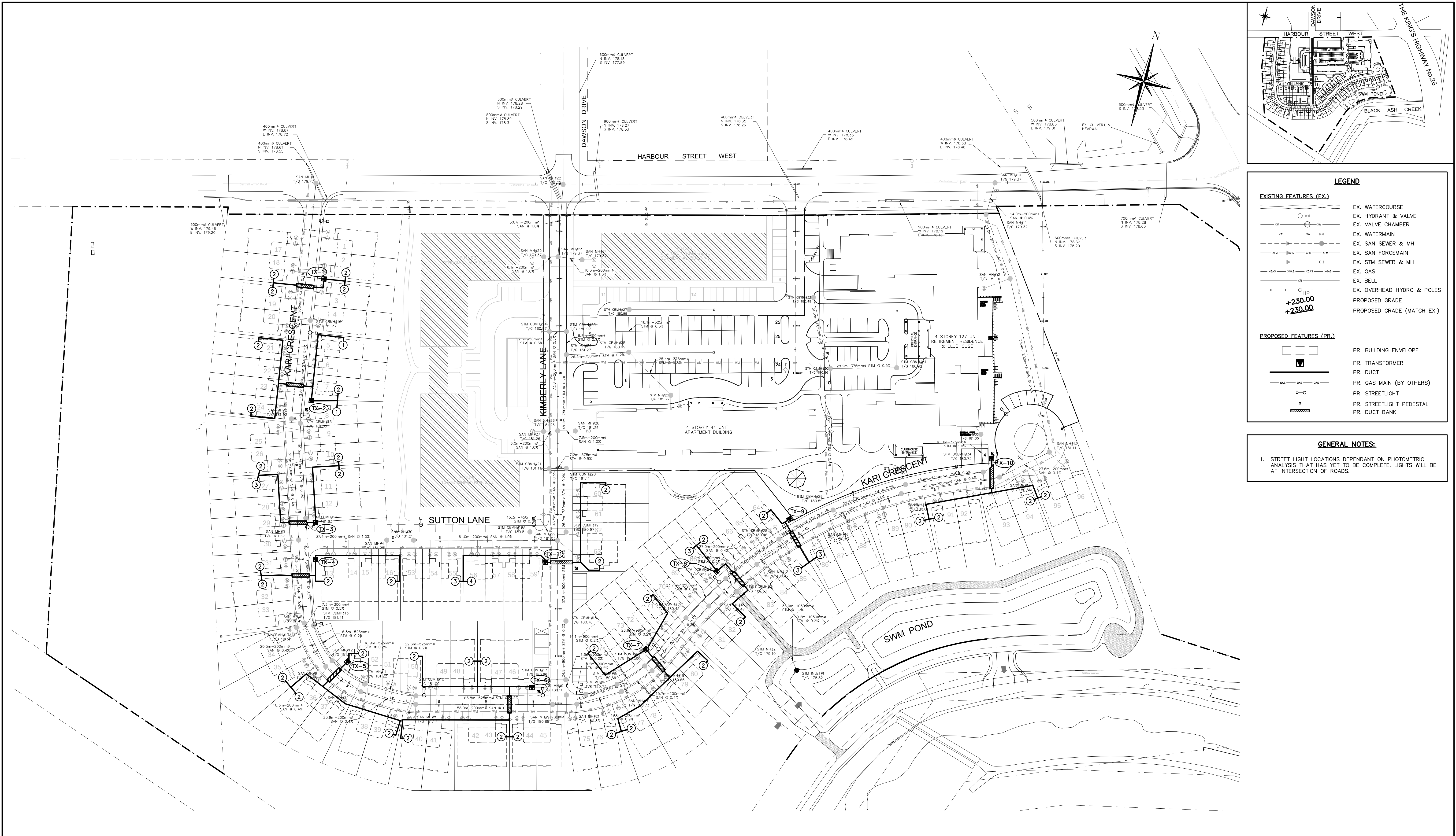
Drawn By: J.O. Design By: J.O. Project: **362-4007**

Scale: 1:1000 Date: 06/29/2015 Check By: D.T. Drawing: **107**



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LEGEND

EXISTING FEATURES (EX.)

EX. WATERCOURSE
EX. HYDRANT & VALVE
EX. VALVE CHAMBER
EX. WATERMAIN
EX. SAN SEWER & MH
EX. SAN FORCEMAIN
EX. STM SEWER & MH
EX. GAS
EX. BELL
EX. OVERHEAD HYDRO & POLES
PROPOSED GRADE
PROPOSED GRADE (MATCH EX.)

PROPOSED FEATURES (PR.)

PR. BUILDING ENVELOPE
PR. TRANSFORMER
PR. DUCT
PR. GAS MAIN (BY OTHERS)
PR. STREETLIGHT
PR. STREETLIGHT PEDESTAL
PR. DUCT BANK

GENERAL NOTES:

1. STREET LIGHT LOCATIONS DEPENDANT ON PHOTOMETRIC ANALYSIS THAT HAS YET TO BE COMPLETE. LIGHTS WILL BE AT INTERSECTION OF ROADS.

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