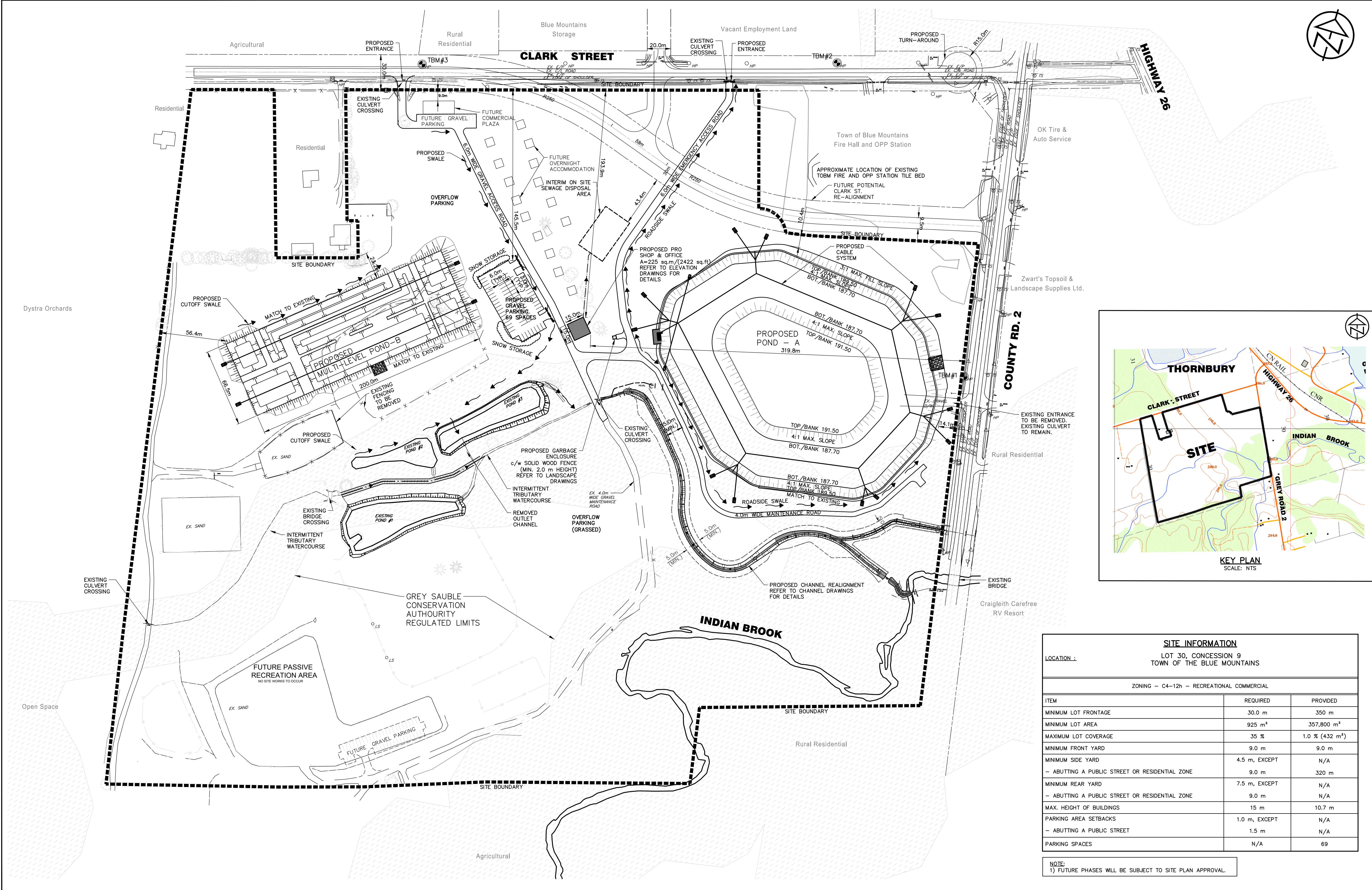




SITE INFORMATION		
LOCATION -		
LOT 30, CONCESSION 9 TOWN OF THE BLUE MOUNTAINS		
ZONING - C4-12h - RECREATIONAL COMMERCIAL		
ITEM	REQUIRED	PROVIDED
MINIMUM LOT FRONTAGE	30.0 m	350 m
MINIMUM LOT AREA	925 m ²	357,800 m ²
MAXIMUM LOT COVERAGE	35 %	1.0 % (432 m ²)
MINIMUM FRONT YARD	9.0 m	9.0 m
MINIMUM SIDE YARD	4.5 m, EXCEPT	N/A
- ABUTTING A PUBLIC STREET OR RESIDENTIAL ZONE	9.0 m	320 m
MINIMUM REAR YARD	7.5 m, EXCEPT	N/A
- ABUTTING A PUBLIC STREET OR RESIDENTIAL ZONE	9.0 m	N/A
MAX. HEIGHT OF BUILDINGS	15 m	10.7 m
PARKING AREA SETBACKS	1.0 m, EXCEPT	N/A
- ABUTTING A PUBLIC STREET	1.5 m	N/A
PARKING SPACES	N/A	69

NOTE:

1) FUTURE PHASES WILL BE SUBJECT TO SITE PLAN APPROVAL.

DISCLAIMER AND COPYRIGHT

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.

TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

BENCHMARKS

TBM1 - ELEVATION 186.773
NAIL IN HYDRO POLE LOCATED ON WEST SIDE OF GREY ROAD #2, 3RD HYDRO POLE SOUTH OF POLICE AND EMS STATION.

TBM2 - ELEVATION 186.555
NAIL IN HYDRO POLE LOCATED ON NORTH SIDE OF CLARK ST., APPROXIMATELY 160m WEST OF INTERSECTION OF CLARK ST. & GREY ROAD #2.

TBM3 - ELEVATION 198.028
NAIL IN HYDRO POLE LOCATED ON WEST SIDE OF CLARK ST., APPROXIMATELY 500m WEST OF INTERSECTION OF CLARK ST. AND GREY ROAD #2.

NOTES

NOTES

No.	REVISION DESCRIPTION	DATE
1.	REVISED AS PER TOWN/GSCA COMMENTS.	SEPT/18
2.	SECOND SUBMISSION	JULY/19

CEDAR RUN WAKEBOARD CABLE PARK
TOWN OF THE BLUE MOUNTAINS

SITE PLAN

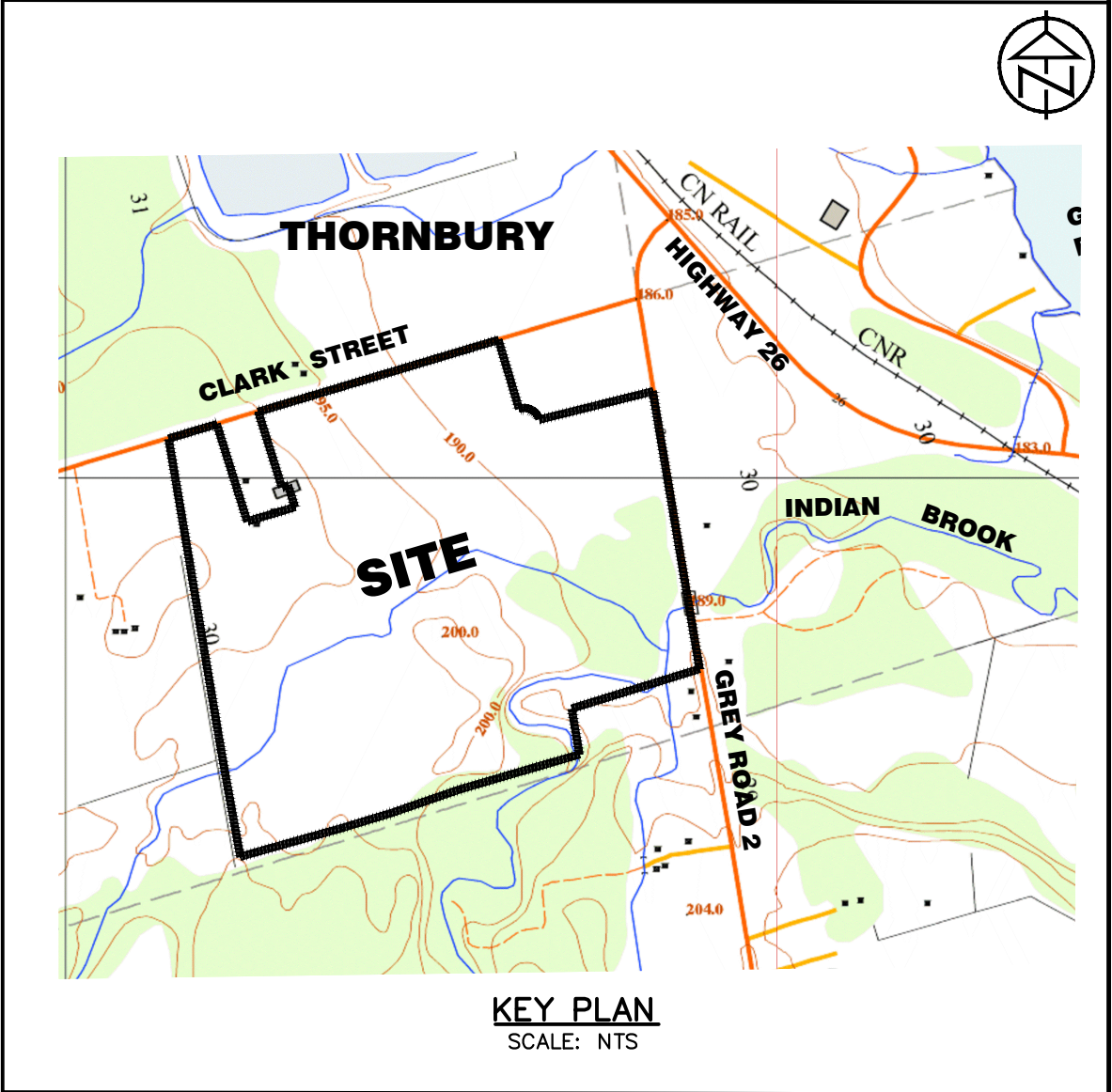
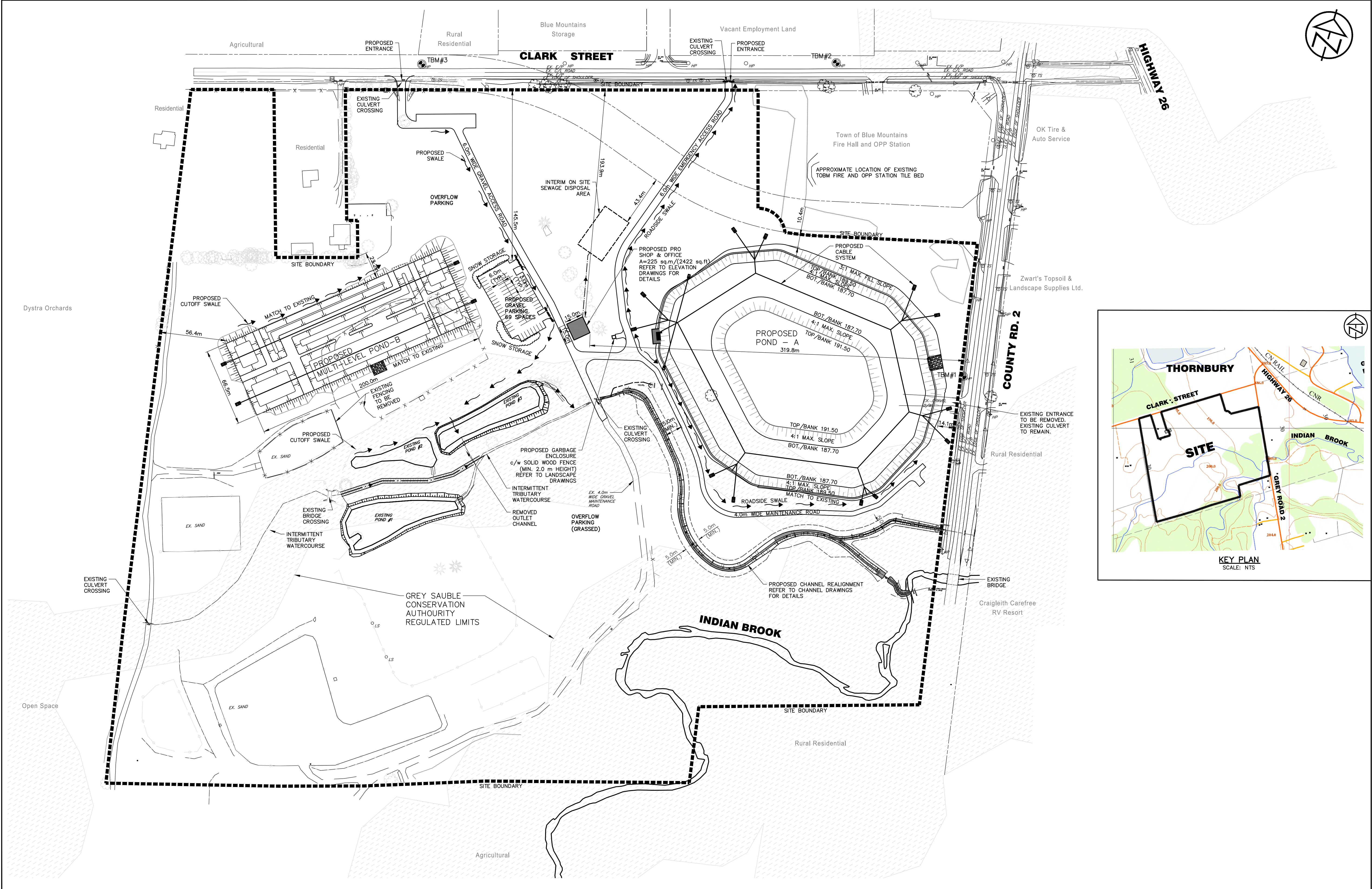
TATHAM ENGINEERING

DESIGN: ARO
DRAWN: DEP/RD
CHECK: DJH

FILE: 115232
DATE: JAN 2017
SCALE: 1 : 1,500

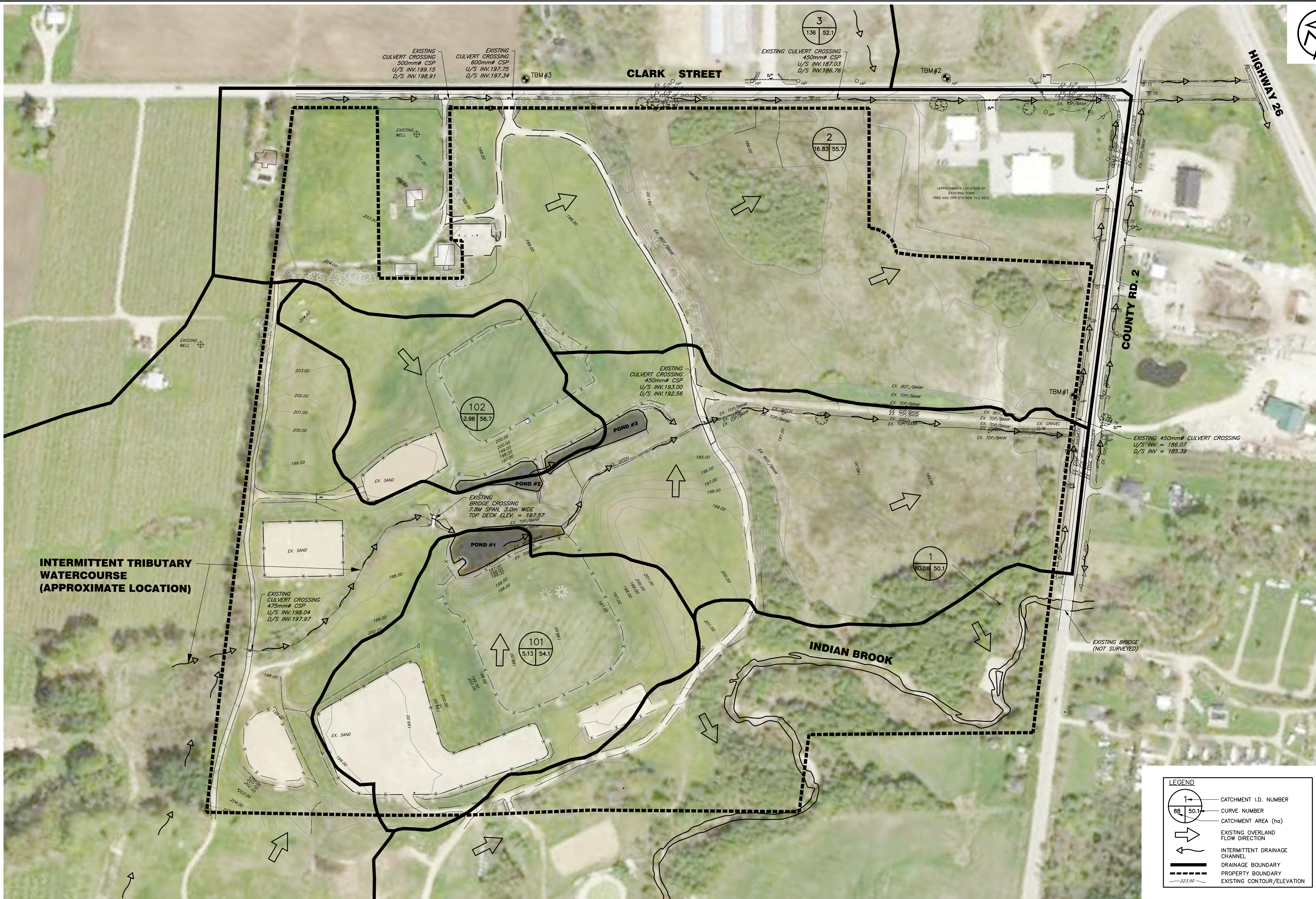
DWG: **SP-1**

Drawing Name: 115232-SP01.dwg, Plotted: Jul 02, 2019



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			2.	SECOND SUBMISSION	JULY/19			DESIGN: ARO	FILE: 115232	DWG:
								DRAWN: DEP/RD	DATE: JAN 2017	IP-1
								CHECK: DJH	SCALE: 1 : 1,500	

115232-DP01.dwg 20170702 14:01:00.00 #115232-S01 #115232-101-188-17 #115232-10900 #115232-1400



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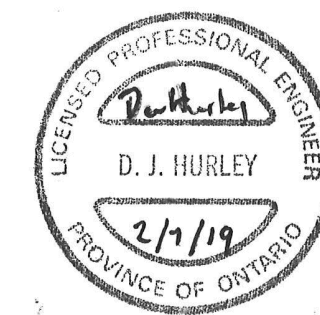
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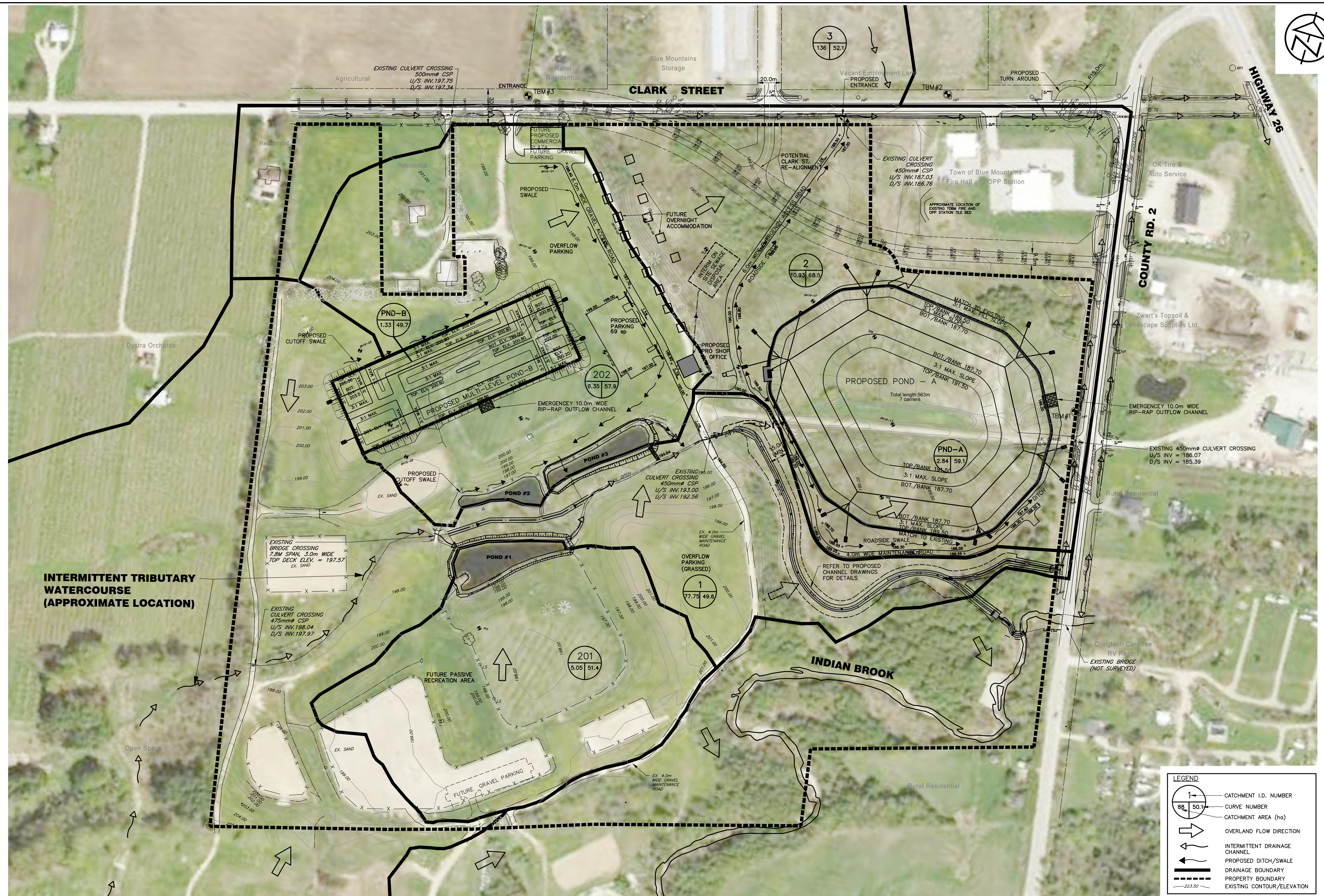


**CEDAR RUN WAKEBOARD
CABLE PARK
TOWN OF THE BLUE MOUNTAINS**

**PRE-DEVELOPMENT DRAINAGE
PLAN**

**TATHAM
ENGINEERING**

DESIGN: ARO	FILE: 115232	DWG: DP-1
DRAWN: DEP/RD	DATE: JAN 2017	
CHECK: DJH	SCALE: 1 : 1,500	



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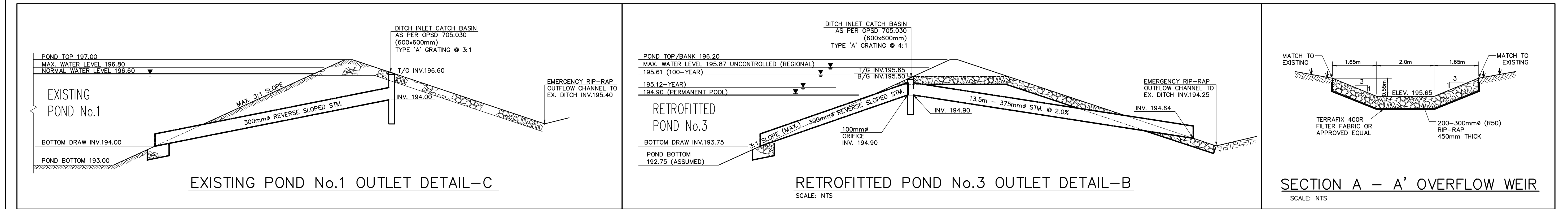
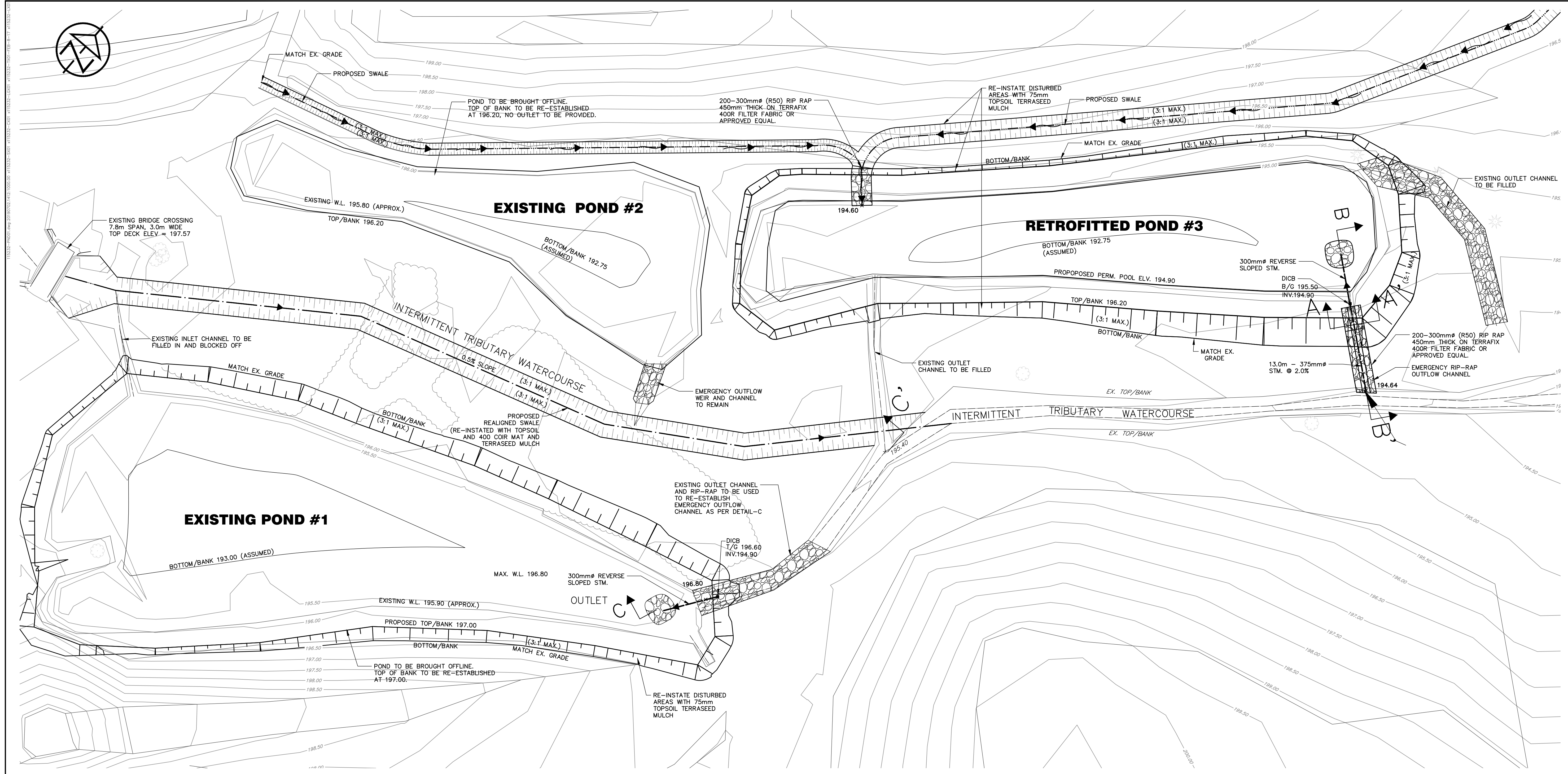
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ENGINEER STAMP

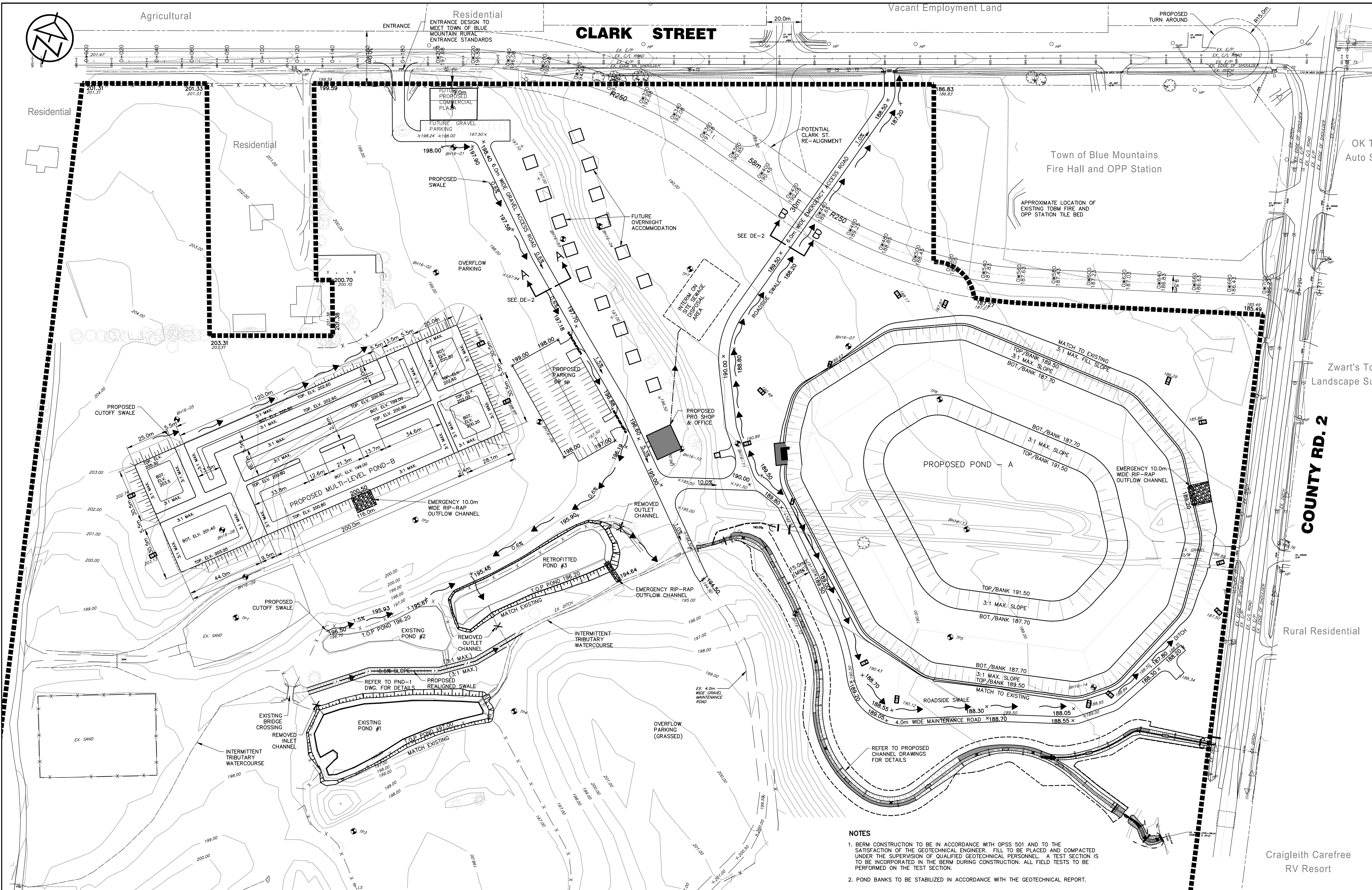
CEDAR RUN WAKEBOARD CABLE PARK TOWN OF THE BLUE MOUNTAINS
POST DEVELOPMENT DRAINAGE PLAN

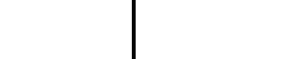


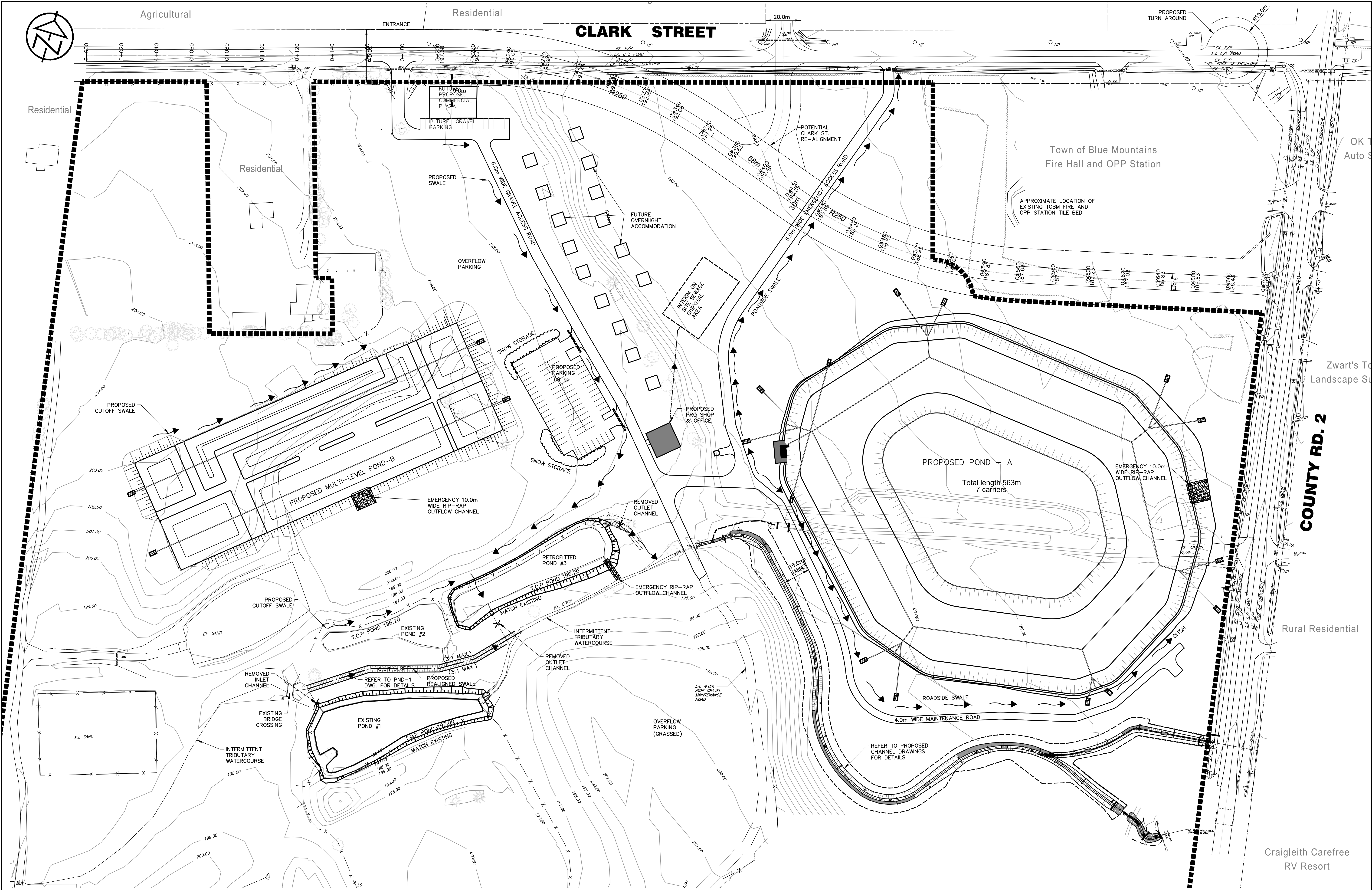
TATHAM
ENGINEERING



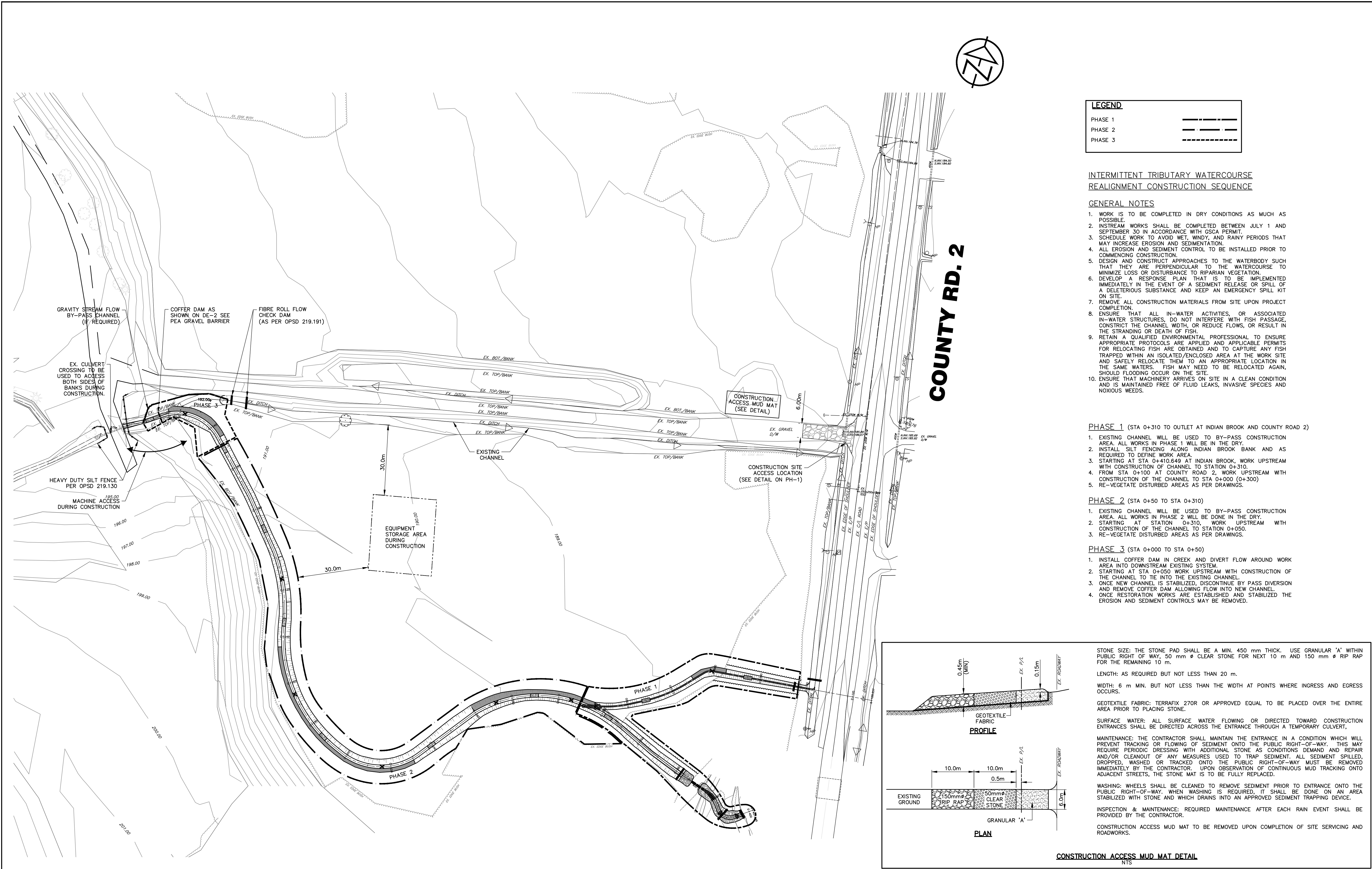
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			1.	REVISED AS PER TOWN/GSCA COMMENTS.	SEPT/18	PROFESSIONAL ENGINEER D. J. HURLEY 24119 PROVINCE OF ONTARIO				
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						DRAWN: DEP/RD		DATE: JAN 2017																							
						CHECK: DJH		SCALE: 1 : 1,000																							



LEGEND

PHASE 1	---
PHASE 2	---
PHASE 3	---

INTERMITTENT TRIBUTARY WATERCOURSE
REALIGNMENT CONSTRUCTION SEQUENCE

GENERAL NOTES

1. WORK IS TO BE COMPLETED IN DRY CONDITIONS AS MUCH AS POSSIBLE.
2. INSTREAM WORKS SHALL BE COMPLETED BETWEEN JULY 1 AND SEPTEMBER 30 IN ACCORDANCE WITH GSCA PERMIT.
3. SCHEDULE WORK TO AVOID WET, WINDY, AND RAINY PERIODS THAT MAY INCREASE EROSION AND SEDIMENTATION.
4. ALL EROSION AND SEDIMENT CONTROL TO BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
5. DESIGN AND CONSTRUCT APPROACHES TO THE WATERBODY SUCH THAT THEY ARE PERPENDICULAR TO THE WATERCOURSE TO MINIMIZE LOSS OR DISTURBANCE TO RIPARIAN VEGETATION.
6. DEVELOP A RESPONSE PLAN THAT IS TO BE IMPLEMENTED IMMEDIATELY IN THE EVENT OF A SEDIMENT RELEASE OR SPILL OF A DELETERIOUS SUBSTANCE AND KEEP AN EMERGENCY SPILL KIT ON SITE.
7. REMOVE ALL CONSTRUCTION MATERIALS FROM SITE UPON PROJECT COMPLETION.
8. ENSURE THAT ALL IN-WATER ACTIVITIES, OR ASSOCIATED IN-WATER STRUCTURES, DO NOT INTERFERE WITH FISH PASSAGE, CONSTRUCT THE CHANNEL WIDTH, OR REDUCE FLOWS, OR RESULT IN THE STRANDING OR DEATH OF FISH.
9. RETAIN A QUALIFIED ENVIRONMENTAL PROFESSIONAL TO ENSURE APPROPRIATE PROTOCOLS ARE APPLIED AND APPLICABLE PERMITS FOR RELOCATING FISH ARE OBTAINED AND TO CAPTURE ANY FISH TRAPPED WITHIN AN ISOLATED/ENCLOSED AREA AT THE WORK SITE AND SAFELY RELOCATE THEM TO AN APPROPRIATE LOCATION IN THE SAME WATERS. FISH MAY NEED TO BE RELOCATED AGAIN, SHOULD FLOODING OCCUR ON THE SITE.
10. ENSURE THAT MACHINERY ARRIVES ON SITE IN A CLEAN CONDITION AND IS MAINTAINED FREE OF FLUID LEAKS, INVASIVE SPECIES AND NOXIOUS WEEDS.

PHASE 1 (STA 0+310 TO OUTLET AT INDIAN BROOK AND COUNTY ROAD 2)

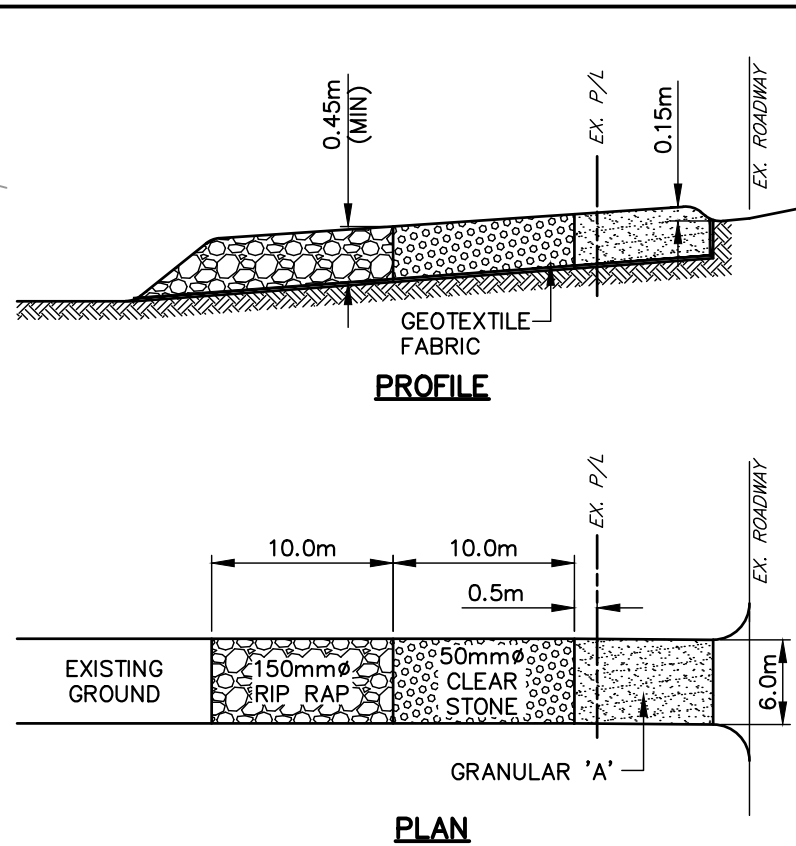
1. EXISTING CHANNEL WILL BE USED TO BY-PASS CONSTRUCTION AREA. ALL WORKS IN PHASE 1 WILL BE IN THE DRY.
2. INSTALL SILT FENCING ALONG INDIAN BROOK BANK AND AS REQUIRED TO DEFINE WORK AREA.
3. STARTING AT STA 0+410.649 AT INDIAN BROOK, WORK UPSTREAM WITH CONSTRUCTION OF CHANNEL TO STATION 0+310.
4. FROM STA 0+100 AT COUNTY ROAD 2, WORK UPSTREAM WITH CONSTRUCTION OF THE CHANNEL TO STA 0+000 (0+300)
5. RE-VEGETATE DISTURBED AREAS AS PER DRAWINGS.

PHASE 2 (STA 0+50 TO STA 0+310)

1. EXISTING CHANNEL WILL BE USED TO BY-PASS CONSTRUCTION AREA. ALL WORKS IN PHASE 2 WILL BE DONE IN THE DRY.
2. STARTING AT STATION 0+310, WORK UPSTREAM WITH CONSTRUCTION OF THE CHANNEL TO STATION 0+050.
3. RE-VEGETATE DISTURBED AREAS AS PER DRAWINGS.

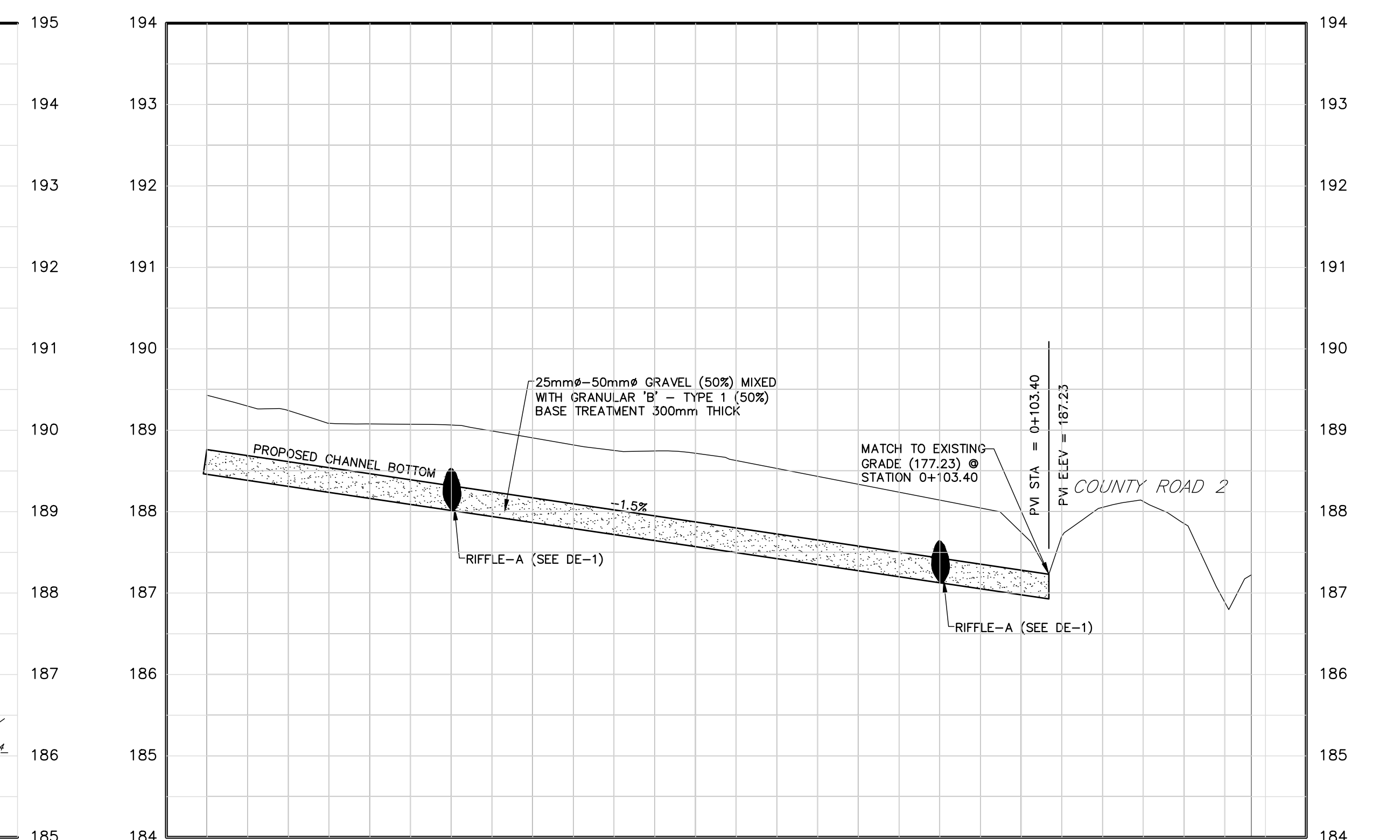
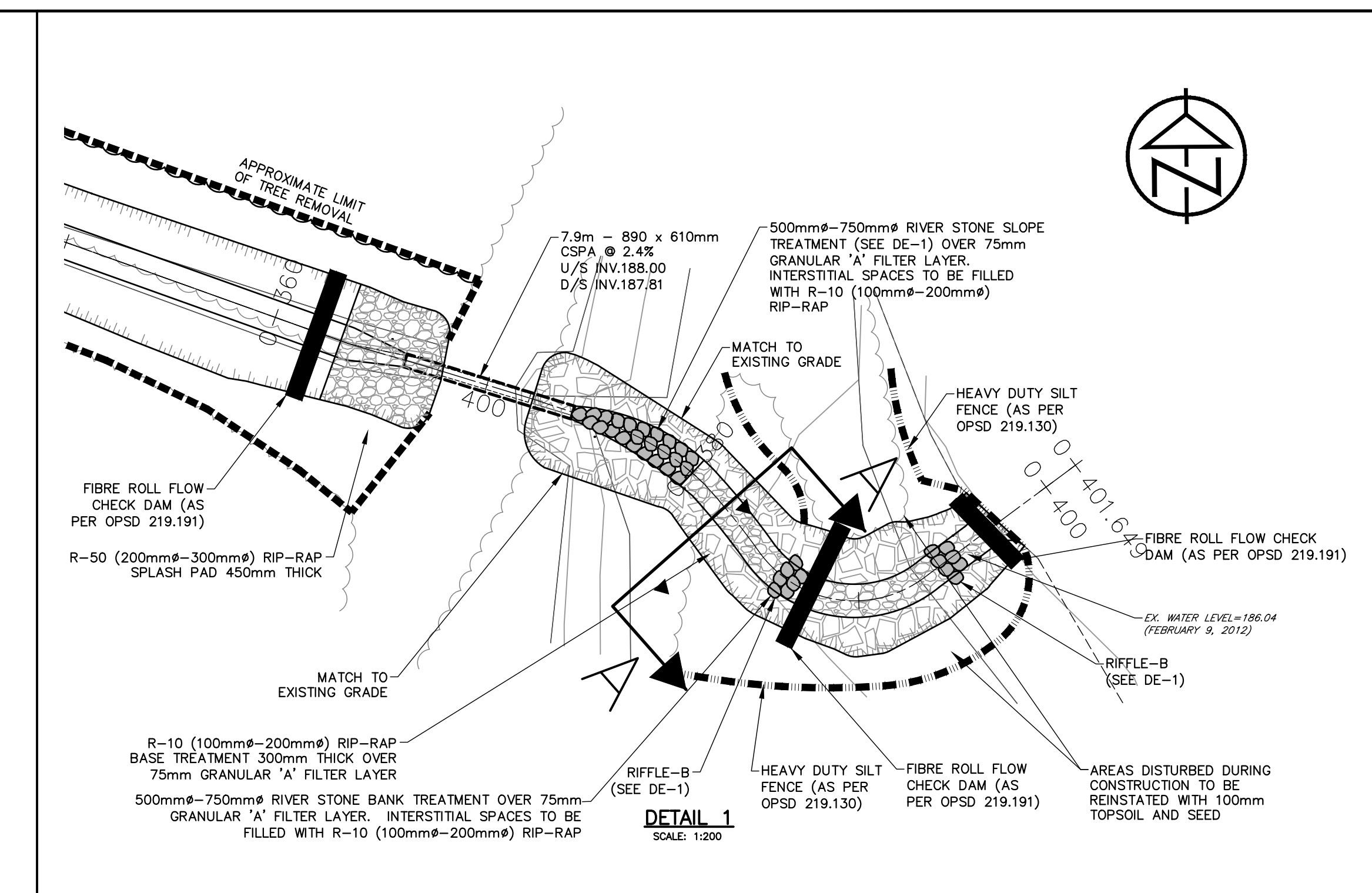
PHASE 3 (STA 0+000 TO STA 0+50)

1. INSTALL COFFER DAM IN CREEK AND DIVERT FLOW AROUND WORK AREA INTO DOWNSTREAM EXISTING SYSTEM.
2. STARTING AT STA 0+050 WORK UPSTREAM WITH CONSTRUCTION OF THE CHANNEL TO TIE INTO THE EXISTING CHANNEL.
3. ONCE NEW CHANNEL IS STABILIZED, DISCONTINUE BY PASS DIVERSION AND REMOVE COFFER DAM ALLOWING FLOW INTO NEW CHANNEL.
4. ONCE RESTORATION WORKS ARE ESTABLISHED AND STABILIZED THE EROSION AND SEDIMENT CONTROLS MAY BE REMOVED.



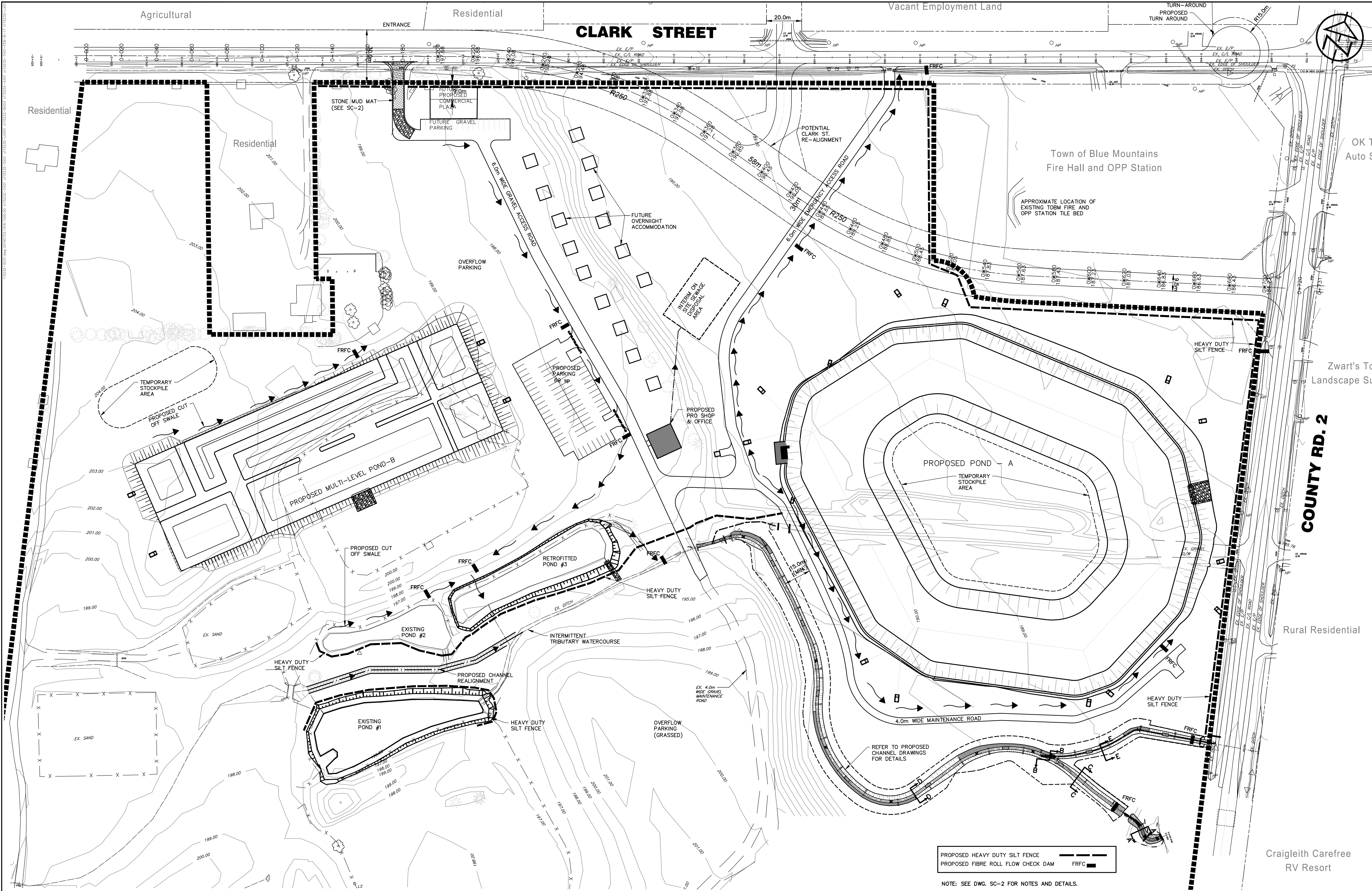
CONSTRUCTION ACCESS MUD MAT DETAIL
NTS

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CREEK CONSTRUCTION PHASING PLAN								DESIGN: ARO	FILE: 115232	DWG:
								DRAWN: DEP/RD	DATE: JAN 2017	PH-1
								CHECK: DJH	SCALE: 1:750	

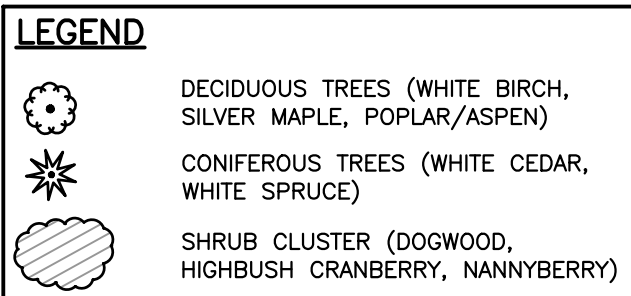
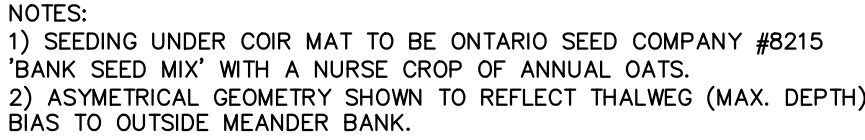


CHAINAGE	EXISTING ELEV. @ CHANNEL C/L	PROPOSED CHANNEL C/L ELEV
0+220	190.58	189.75
0+240	190.56	189.62
0+260	190.43	189.36
0+280	189.84	189.09
0+300	189.51	188.86
0+320	189.28	188.82
0+340	189.50	188.64
0+360	189.47	188.46
0+380	187.14	186.60
0+395	186.41	185.74
0+000	189.43	188.76
0+020	189.08	188.46
0+040	188.90	188.17
0+060	188.72	187.87
0+080	188.33	187.58
0+100	187.74	187.28
0+120	187.85	
0+128		
CHAINAGE	EXISTING ELEV. @ CHANNEL C/L	PROPOSED CHANNEL C/L ELEV

 TATHAM ENGINEERING			
DESIGN: ARO	FILE: 115232	DWG:	PP-2
DRAWN: DEP/RD	DATE: JAN 2017		
CHECK: DJH	SCALE: HOR=1:500, VERT.		



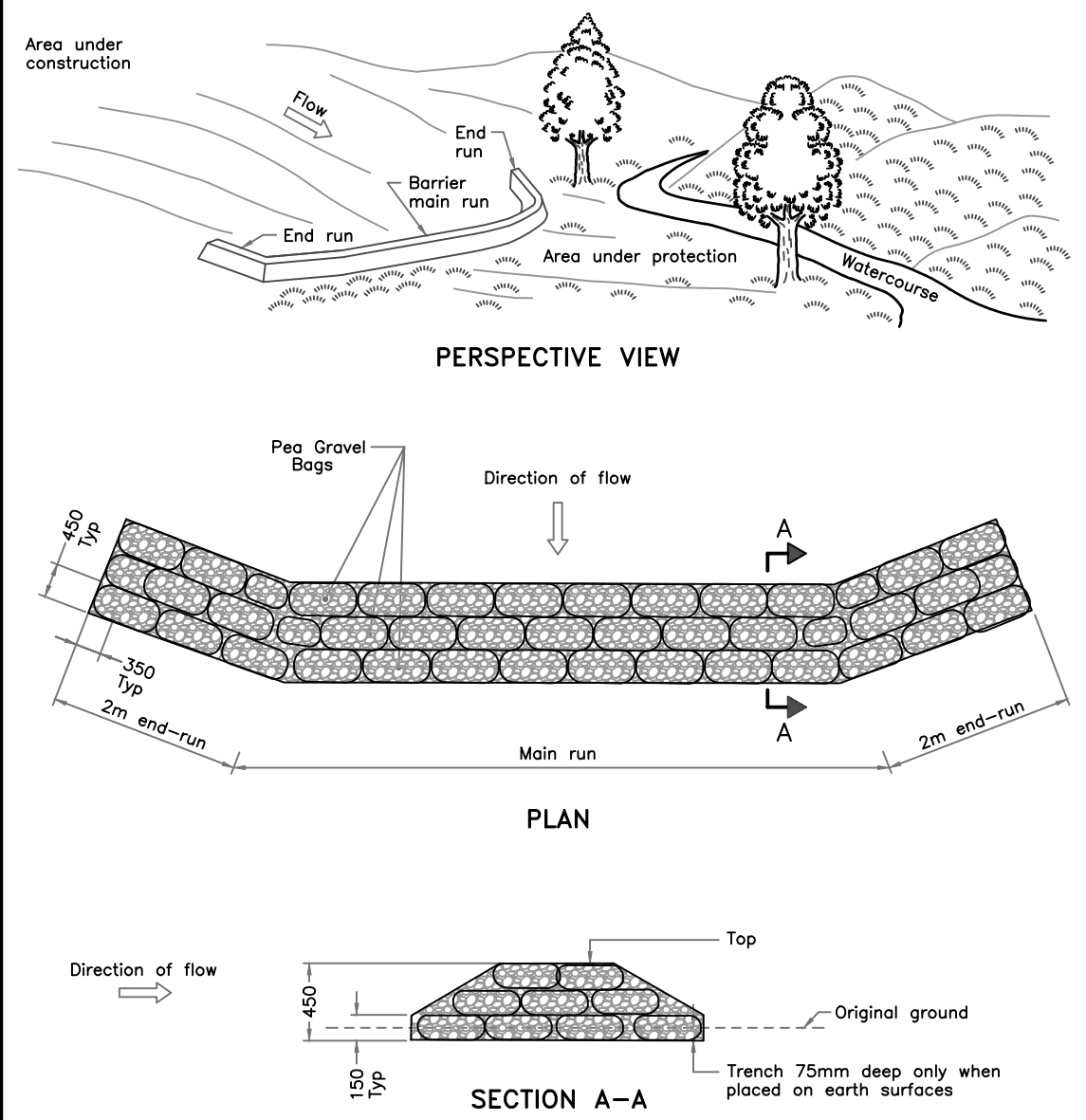
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						SILTATION AND EROSION CONTROL PLAN		DESIGN: ARO	FILE: 115232	DWG: SC-1												
								DRAWN: DEP/RD	DATE: JAN 2017													
								CHECK: DJH	SCALE: 1 : 1,000													



- A) LIVE STAKE INSTALLATION TO OCCUR IN THE FALL DURING THE PLANT MATERIALS DORMANT SEASON.
- B) LIVE STAKES TO BE NATIVE WILLOW SPECIES AND/OR DOGWOOD, 60 cm IN LENGTH (MIN.) HAVING A DIAMETER OF 2.0 cm AT THE BASE CUT FROM UPRIGHT BRANCHES OF PARENT MATERIAL DURING THE FALL.
- C) LIVE STAKES TO BE HARVESTED FROM PARENT MATERIAL WITHIN 48 HOURS OF INSTALLATION AND KEPT MOIST IN BUCKETS OR WET BURLAP SACKS DURING STORAGE AND TRANSPORT. LIVE STAKES ARE NOT TO BE ALLOWED TO DRY OUT OR BE EXPOSED TO DIRECT SUNLIGHT OR STRONG WINDS.
- D) BASE OF LIVE STAKE TO BE ANGLE CUT; TIP OF LIVE STAKE TO BE CUT STRAIGHT.
- E) LIVE STAKE INSTALLATION – DRIVE BASE OF LIVE STAKE INTO STREAM BANKS USING A RUBBER Mallet OR DEAD-BLOW HAMMER LEAVING APPROXIMATELY 10 cm OF THE LIVE STAKE EXPOSED ABOVE THE SOIL/ROCK AND TAMP THE SOIL AROUND THE STAKE. USE A PLANTING BAR OR LENGTH OF REBAR TO PRE-DIG A PILOT HOLE IN FIRM SOILS OR ROCK.
- F) LIVE STAKES TO BE INSTALLED AT A DENSITY OF 3-5 PER sq.m UNLESS SPECIFIED OTHERWISE.
- G) CONIFEROUS TREES TO BE NATIVE WHITE CEDAR AND WHITE SPRUCE SEEDLING PLUGS.
- H) DECIDUOUS TREES TO BE NATIVE WHITE BIRCH, SILVER MAPLE, POPLAR AND ASPEN 2+0 SEEDLINGS.
- I) RIPARIAN ZONE TREE PLANTING TO BE 60% CONIFEROUS TREES AND 40% DECIDUOUS TREES AT A DENSITY OF 1 PLANT PER SQ. M.
- J) SHRUBS TO BE NATIVE DOGWOOD, Highbush CRANBERRY AND NANNYBERRY. SHRUB CLUSTER PLANTING TO OCCUR AT A MAXIMUM SPACING OF 10m ALONG STREAM BANK. SHRUB PLANTING SPACING SHALL BE 1.5m ON CENTRE. A SHRUB CLUSTER CONSISTS OF A MINIMUM OF 5 SHRUBS, MAXIMUM OF 15 SHRUBS, AND AN AVERAGE OF 10 SHRUBS.
- K) SEED TO BE ONTARIO SEED COMPANY'S 8190-STOREDRAIN POND MIXTURE. SEED APPLICATION RATE 25 kg/ha WITH 25 kg/ha ANNUAL RYE COVER CROP. COVER SHALL BE STRAW MULCH FOR MECHANICAL OR HAND-BROADCAST SEEDING. SEEDING SHALL BE IN ACCORDANCE WITH OPSS 804.

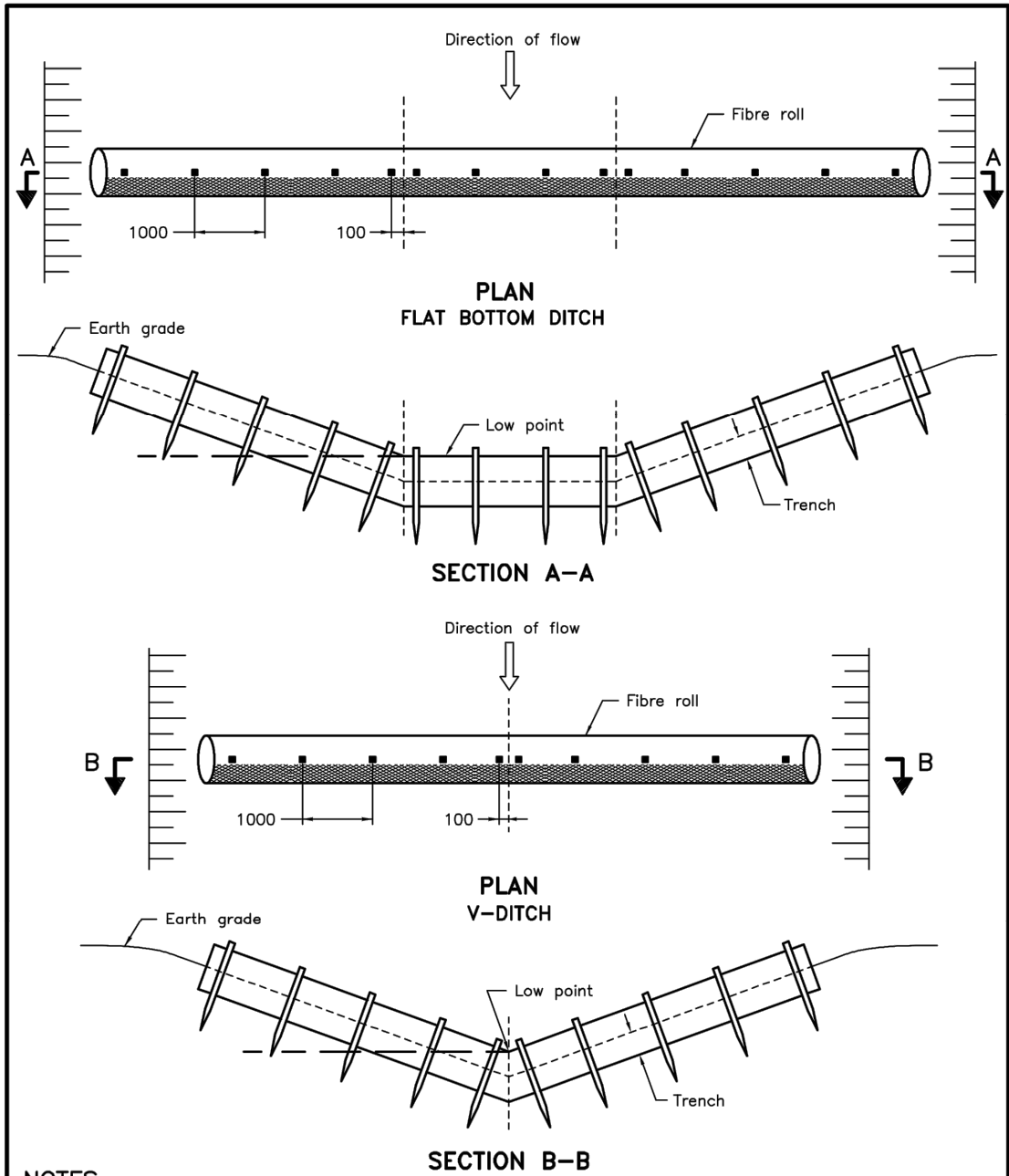
DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.	BENCHMARKS TBM1 – ELEVATION 186.773 NAIL IN HYDRO POLE LOCATED ON WEST SIDE OF GREY ROAD #2, 3RD HYDRO POLE SOUTH OF POLICE AND EMS STATION. TBM2 – ELEVATION 186.555 NAIL IN HYDRO POLE LOCATED ON NORTH SIDE OF CLARK ST., APPROXIMATELY 160m WEST OF INTERSECTION OF CLARK ST. & GREY ROAD #2. TBM3 – ELEVATION 198.028 NAIL IN HYDRO POLE LOCATED ON WEST SIDE OF CLARK ST., APPROXIMATELY 500m WEST OF INTERSECTION OF CLARK ST. AND GREY ROAD #2.	NOTES NOTES	No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP 	CEDAR RUN WAKEBOARD CABLE PARK TOWN OF THE BLUE MOUNTAINS				
			1.	REVISED AS PER TOWN/GSCA COMMENTS.	SEPT/18	2.	SECOND SUBMISSION	JULY/19	DETAILS AND NOTES		DESIGN: ARO DRAWN: DEP/RD CHECK: DJH

115232-PP01.dwg, 115232-PP02.dwg, 115232-PP03.dwg, 115232-PP04.dwg, 115232-PP05.dwg, 115232-PP06.dwg, 115232-PP07.dwg, 115232-PP08.dwg, 115232-PP09.dwg, 115232-PP10.dwg, 115232-PP11.dwg, 115232-PP12.dwg, 115232-PP13.dwg, 115232-PP14.dwg, 115232-PP15.dwg, 115232-PP16.dwg, 115232-PP17.dwg, 115232-PP18.dwg, 115232-PP19.dwg, 115232-PP20.dwg, 115232-PP21.dwg, 115232-PP22.dwg, 115232-PP23.dwg, 115232-PP24.dwg, 115232-PP25.dwg, 115232-PP26.dwg, 115232-PP27.dwg, 115232-PP28.dwg, 115232-PP29.dwg, 115232-PP30.dwg, 115232-PP31.dwg, 115232-PP32.dwg, 115232-PP33.dwg, 115232-PP34.dwg, 115232-PP35.dwg, 115232-PP36.dwg, 115232-PP37.dwg, 115232-PP38.dwg, 115232-PP39.dwg, 115232-PP40.dwg, 115232-PP41.dwg, 115232-PP42.dwg, 115232-PP43.dwg, 115232-PP44.dwg, 115232-PP45.dwg, 115232-PP46.dwg, 115232-PP47.dwg, 115232-PP48.dwg, 115232-PP49.dwg, 115232-PP50.dwg, 115232-PP51.dwg, 115232-PP52.dwg, 115232-PP53.dwg, 115232-PP54.dwg, 115232-PP55.dwg, 115232-PP56.dwg, 115232-PP57.dwg, 115232-PP58.dwg, 115232-PP59.dwg, 115232-PP60.dwg, 115232-PP61.dwg, 115232-PP62.dwg, 115232-PP63.dwg, 115232-PP64.dwg, 115232-PP65.dwg, 115232-PP66.dwg, 115232-PP67.dwg, 115232-PP68.dwg, 115232-PP69.dwg, 115232-PP70.dwg, 115232-PP71.dwg, 115232-PP72.dwg, 115232-PP73.dwg, 115232-PP74.dwg, 115232-PP75.dwg, 115232-PP76.dwg, 115232-PP77.dwg, 115232-PP78.dwg, 115232-PP79.dwg, 115232-PP80.dwg, 115232-PP81.dwg, 115232-PP82.dwg, 115232-PP83.dwg, 115232-PP84.dwg, 115232-PP85.dwg, 115232-PP86.dwg, 115232-PP87.dwg, 115232-PP88.dwg, 115232-PP89.dwg, 115232-PP90.dwg, 115232-PP91.dwg, 115232-PP92.dwg, 115232-PP93.dwg, 115232-PP94.dwg, 115232-PP95.dwg, 115232-PP96.dwg, 115232-PP97.dwg, 115232-PP98.dwg, 115232-PP99.dwg, 115232-PP100.dwg



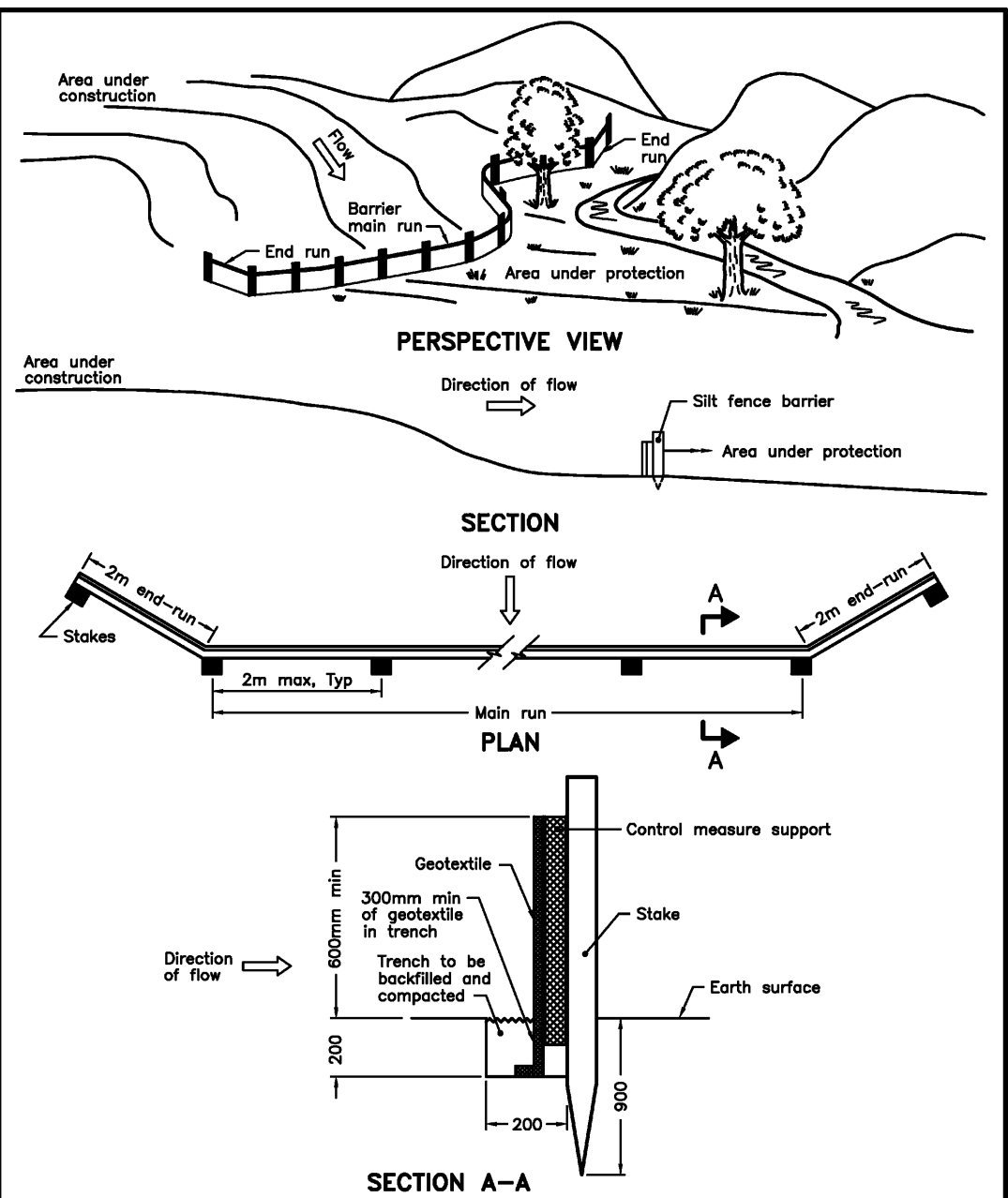
NOTE:
A All dimensions are in millimetres unless otherwise shown.
B Cofferdam to include installation of a polyethylene liner per GSCA.

PEA GRAVEL BAGS BARRIER		
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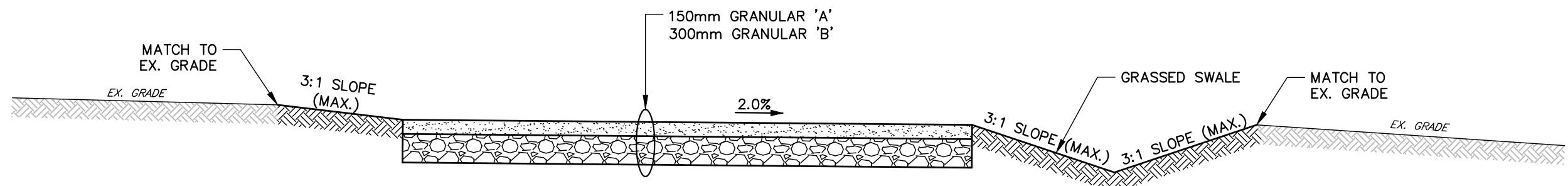
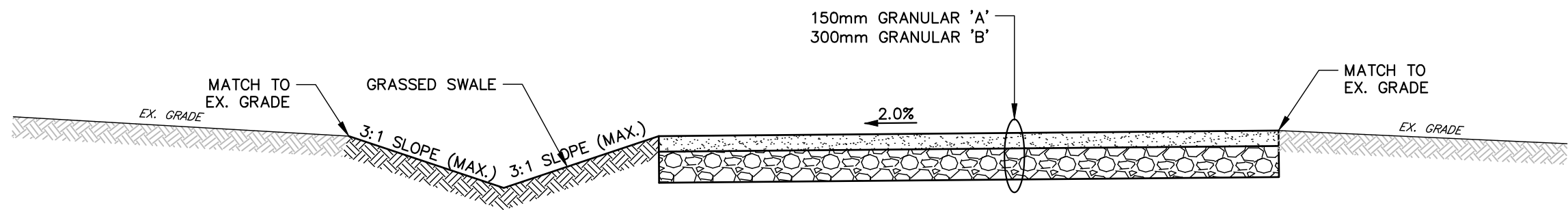
NOTES:
A Refer to OPSD 219.120 Section A-A installation detail.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 0
FIBRE ROLL FLOW CHECK DAMS		
OPSD 219.191		



NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2006	Rev 1
HEAVY-DUTY SILT FENCE BARRIER		
OPSD 219.130		



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			1. REVISED AS PER TOWN/GSCA COMMENTS. SEPT/18			DESIGN: ARO FILE: 115232 DWG:
			2. SECOND SUBMISSION JULY/19			DRAWN: DEP/RD DATE: JAN 2017
						CHECK: DJH SCALE: AS NOTED