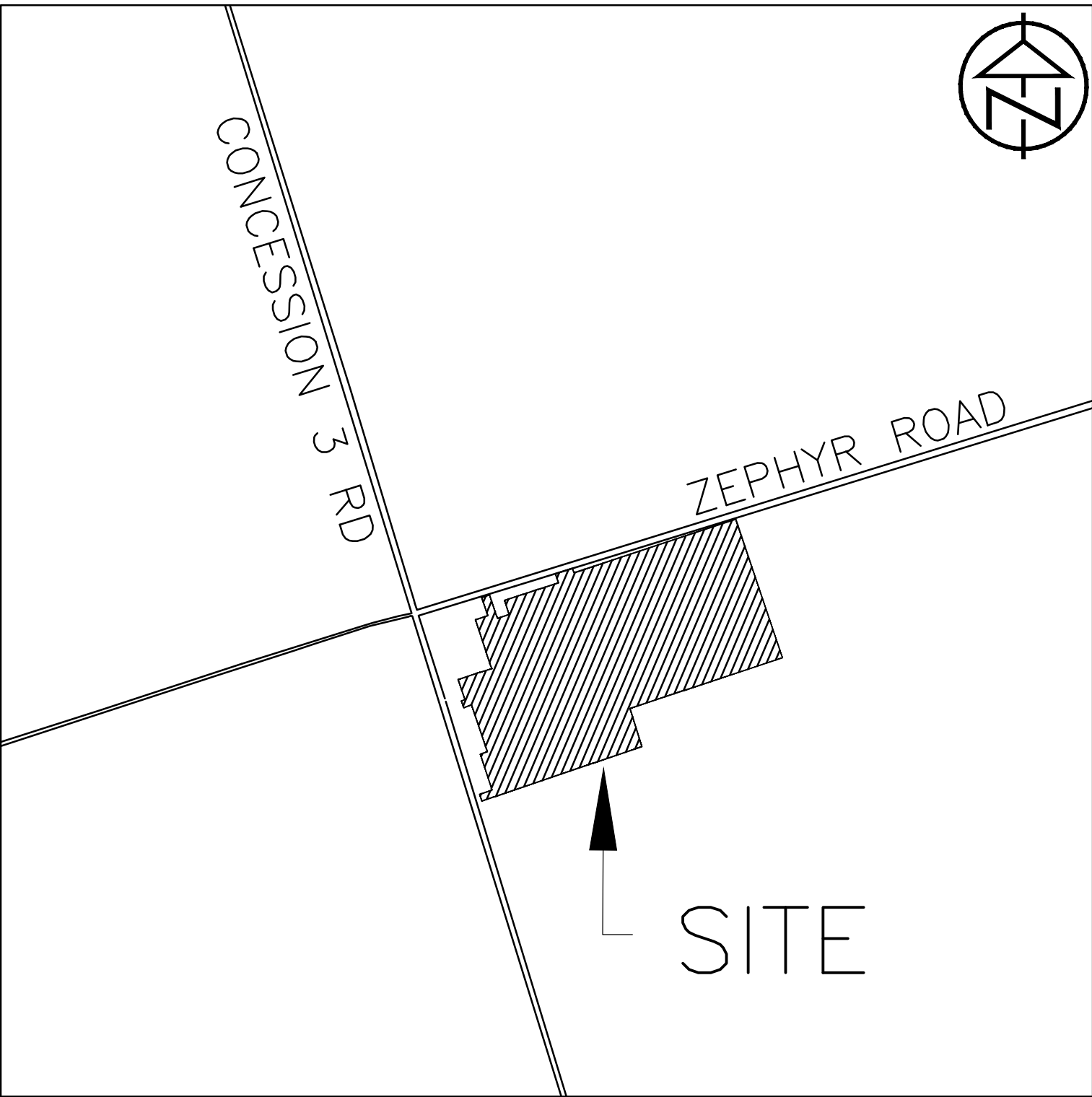


HIDDEN RIDGE SUBDIVISION TOWNSHIP OF UXBRIDGE

INDEX



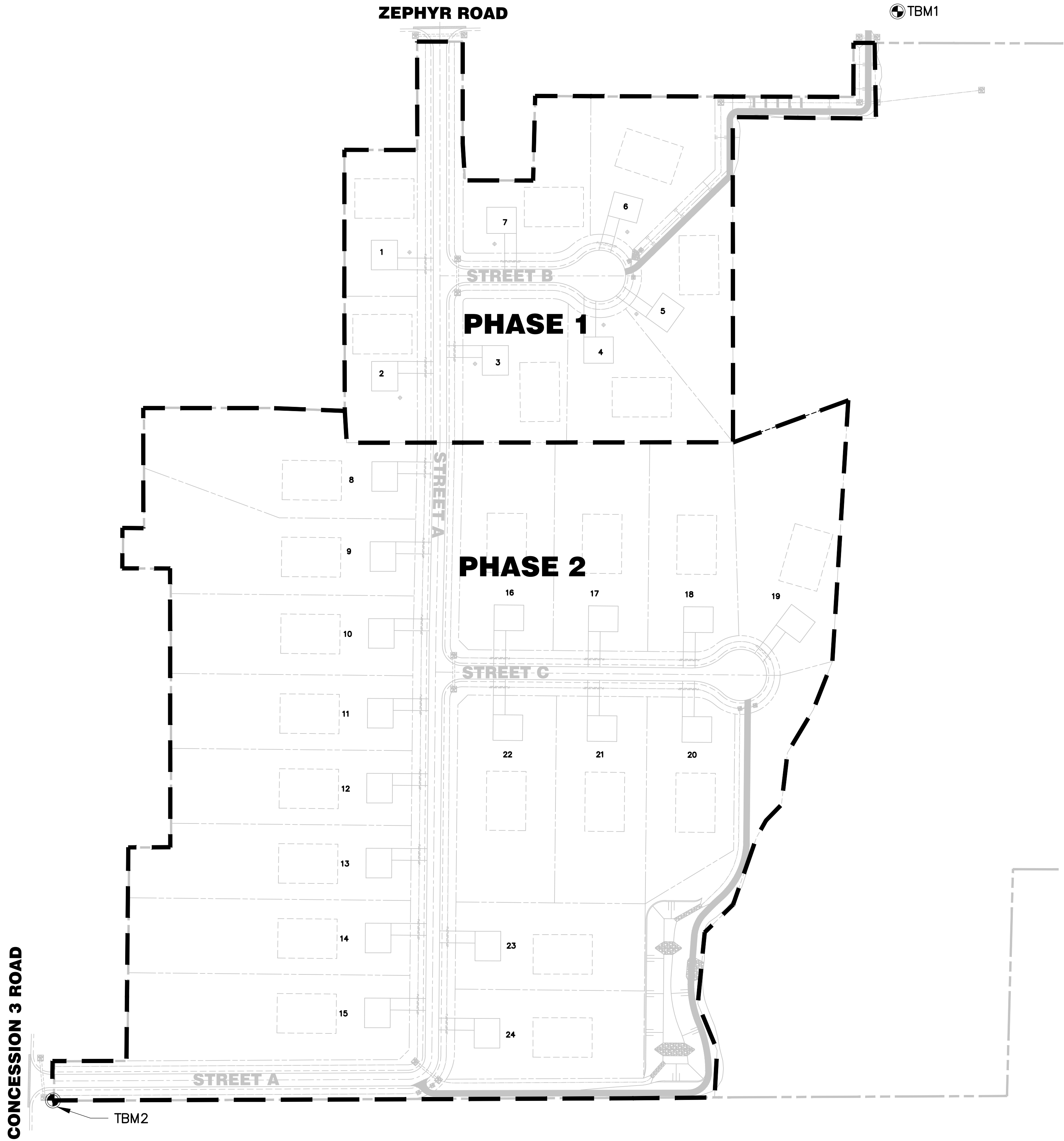
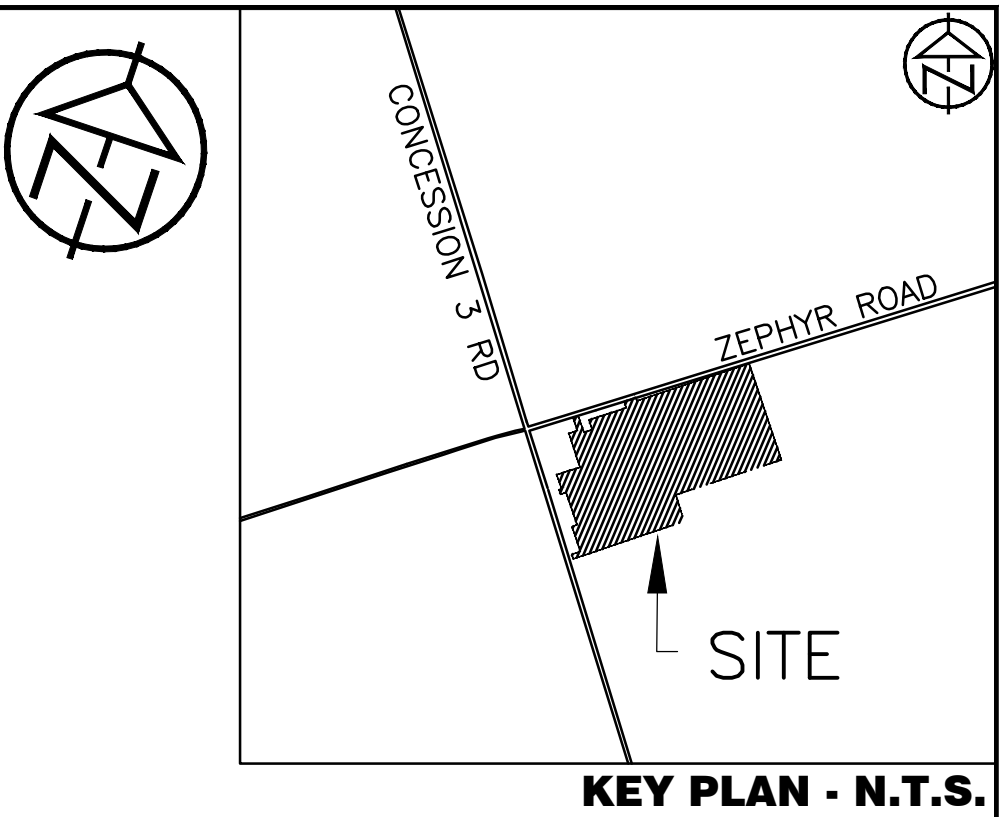
KEY PLAN - N.T.S.

Dwg.No.	Description
TITLE PAGE AND INDEX	
PH-1	PHASING PLAN
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SC-2	REMOVALS, SILTATION AND EROSION CONTROL PLAN (PHASE 2)
SG-1	SITE GRADING PLAN 1 (PHASE 1)
SG-2	SITE GRADING PLAN 2 (PHASE 2)
PP-1	STREET 'A' PLAN AND PROFILE STA 0+000 TO STA 0+290
PP-2	STREET 'A' PLAN AND PROFILE STA 0+290 TO STA 0+560
PP-3	STREET 'A' PLAN AND PROFILE STA 0+560 TO STA 0+735
PP-4	STREET 'B' AND STREET 'C' PLAN AND PROFILE
PP-5	STREET 'B' OUTLET CHANNEL PLAN AND PROFILE
PP-6	WET SWM POND NORTH AND SOUTH INLET CHANNEL PLAN AND PROFILE
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XS-2	STREET 'A' ROAD CROSS SECTIONS AT WEST SITE ENTRANCE
DET-1	NOTES & DETAILS

LEGEND	
	EXISTING PROPERTY LINE
	EXISTING EASEMENT LINE
	EXISTING CENTERLINE
	EXISTING EDGE OF ASPHALT
	EXISTING EDGE OF SHOULDER
	EXISTING DITCH
	EXISTING TEMPORARY BENCHMARK
	EXISTING BOREHOLE/ NUMBER
	EXISTING CULVERT
	EXISTING BELL MANHOLE
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	EXISTING BELL PEDESTAL
	EXISTING BELL POLE
	EXISTING HYDRO POLE
	EXISTING HYDRO GUY POLE
	EXISTING HYDRO GUY WIRE
	EXISTING STANDARD IRON BAR
	EXISTING TRAFFIC SIGN
	PROPOSED DITCH
	PROPOSED PROPERTY LINE
	PROPOSED LOT LINE
	PROPOSED CENTERLINE
	PROPOSED EDGE OF ASPHALT
	PROPOSED EDGE OF SHOULDER
	PROPOSED CULVERT
	PROPOSED RIPRAP
	PROPOSED LIGHT STANDARD
	PROPOSED TRAFFIC SIGN

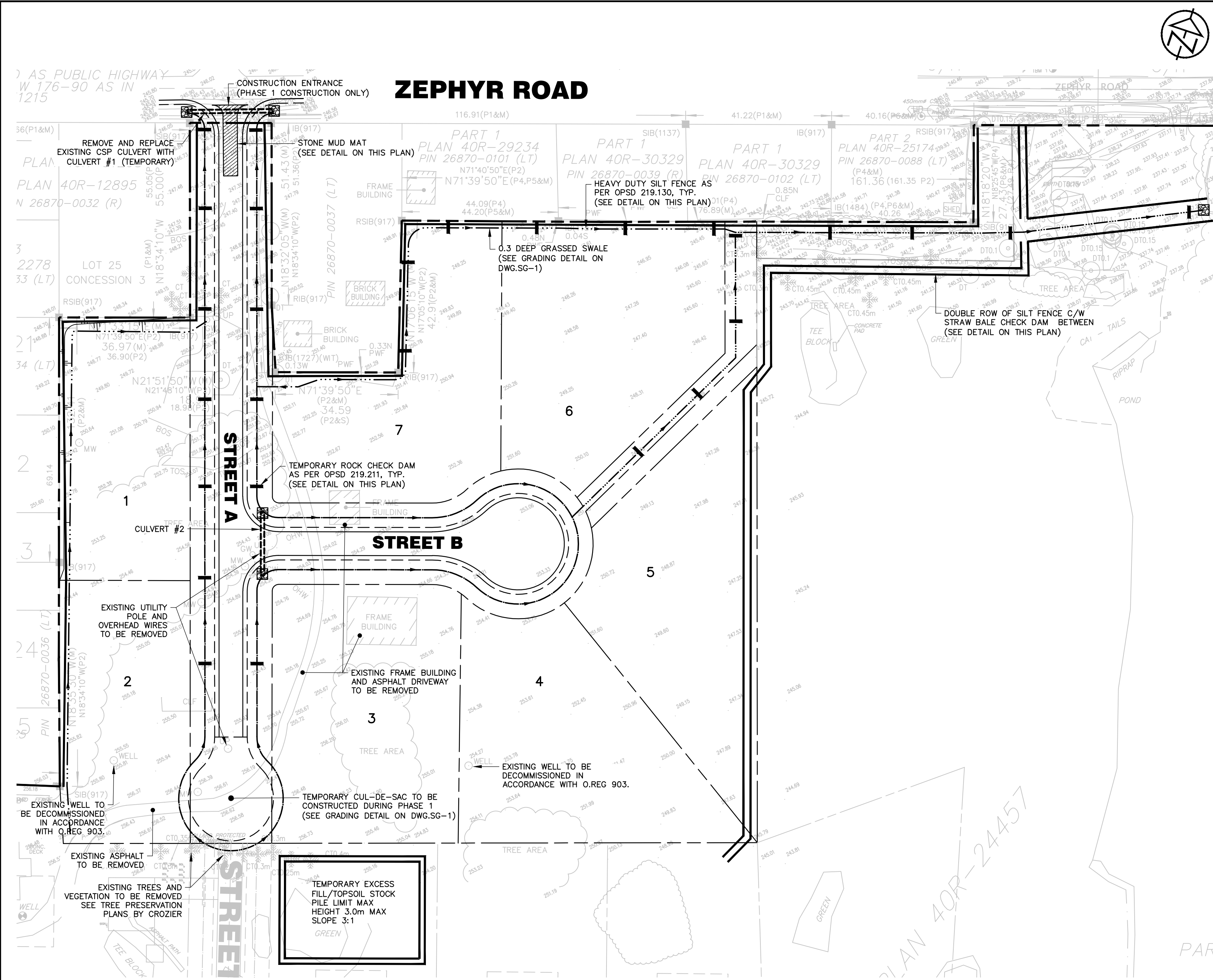
FIRST SUBMISSION FOR APPROVAL

TATHAM Project No. 516655

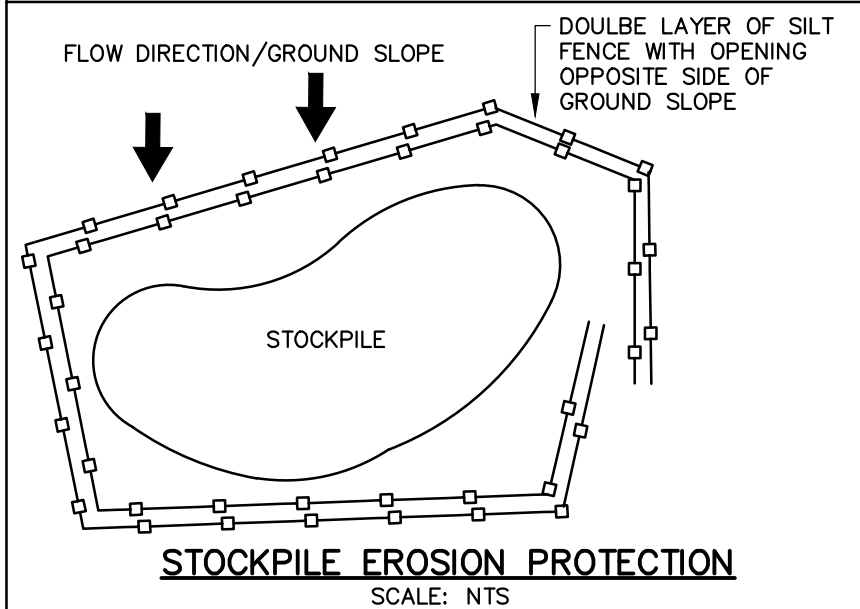
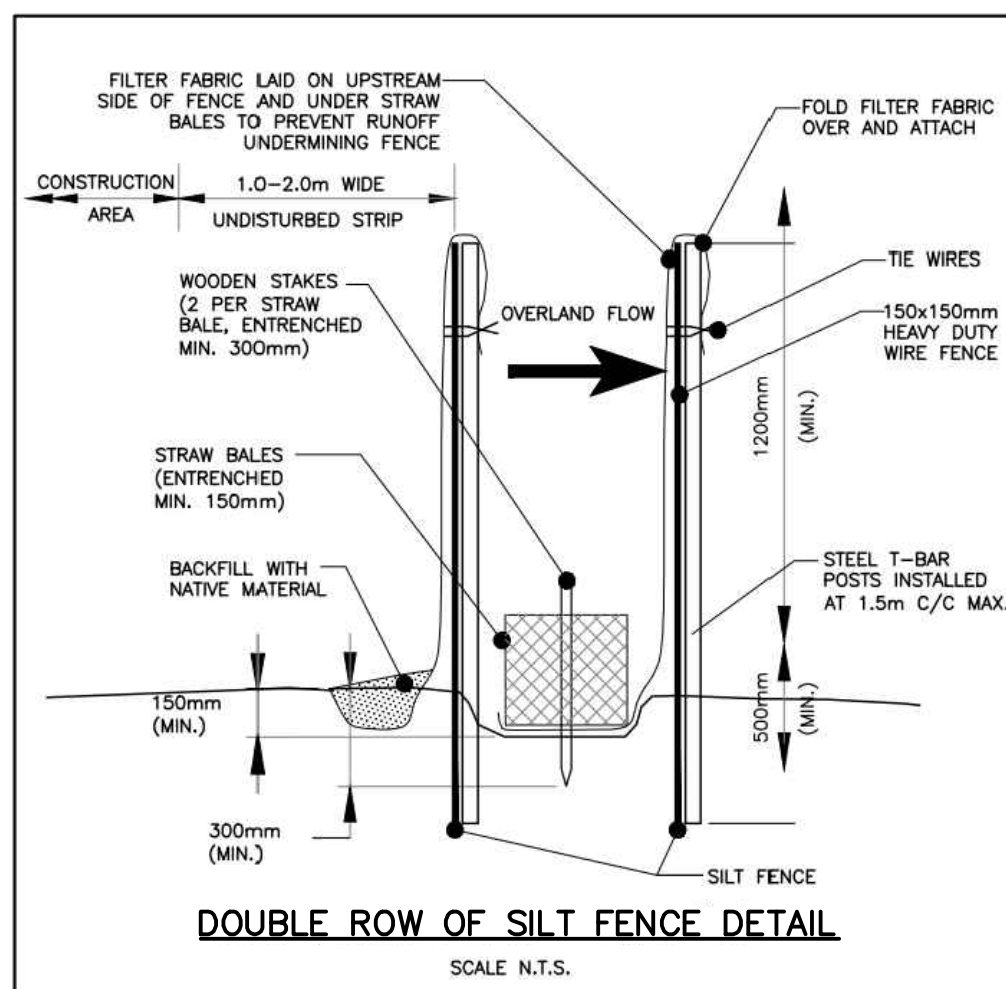
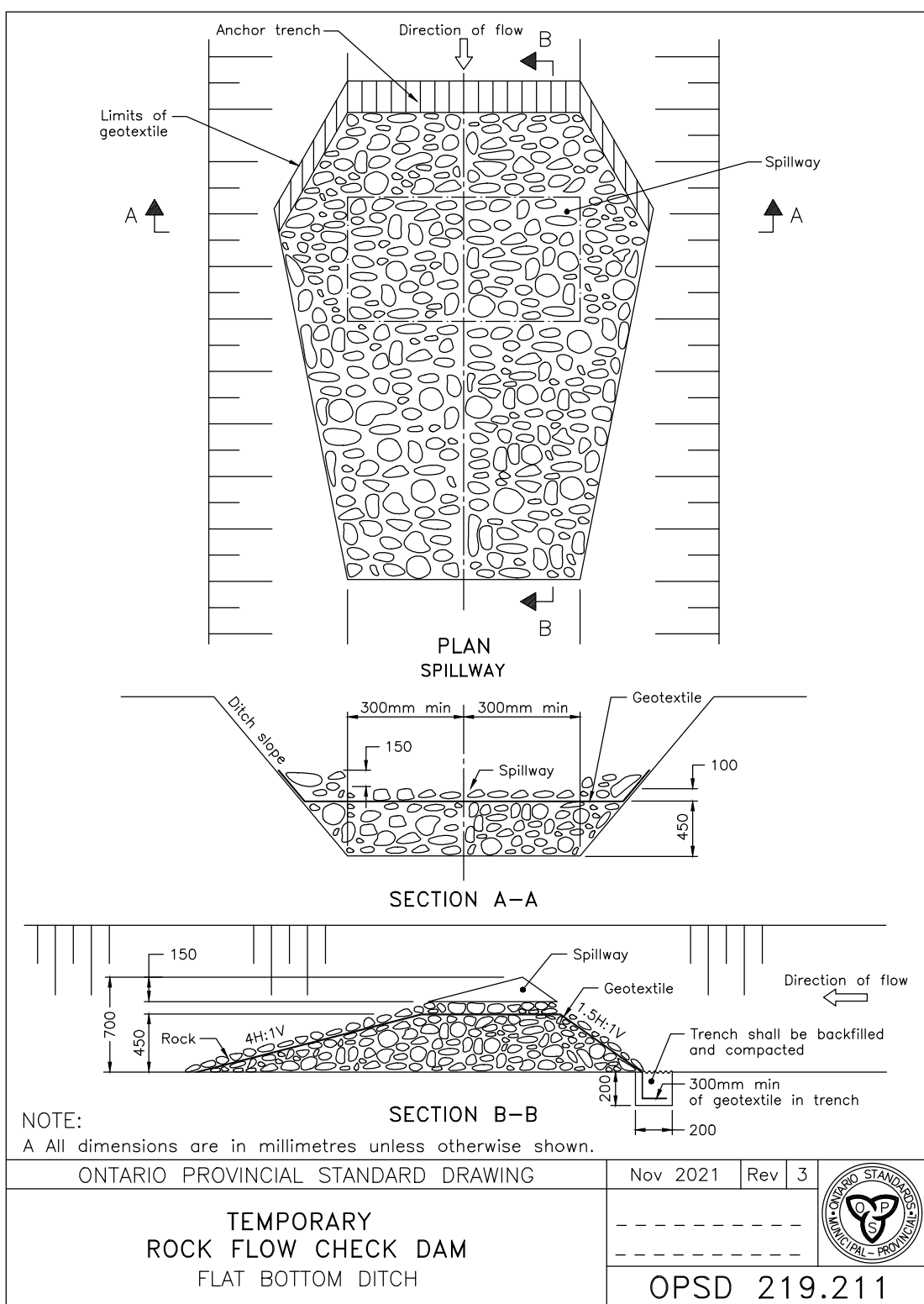
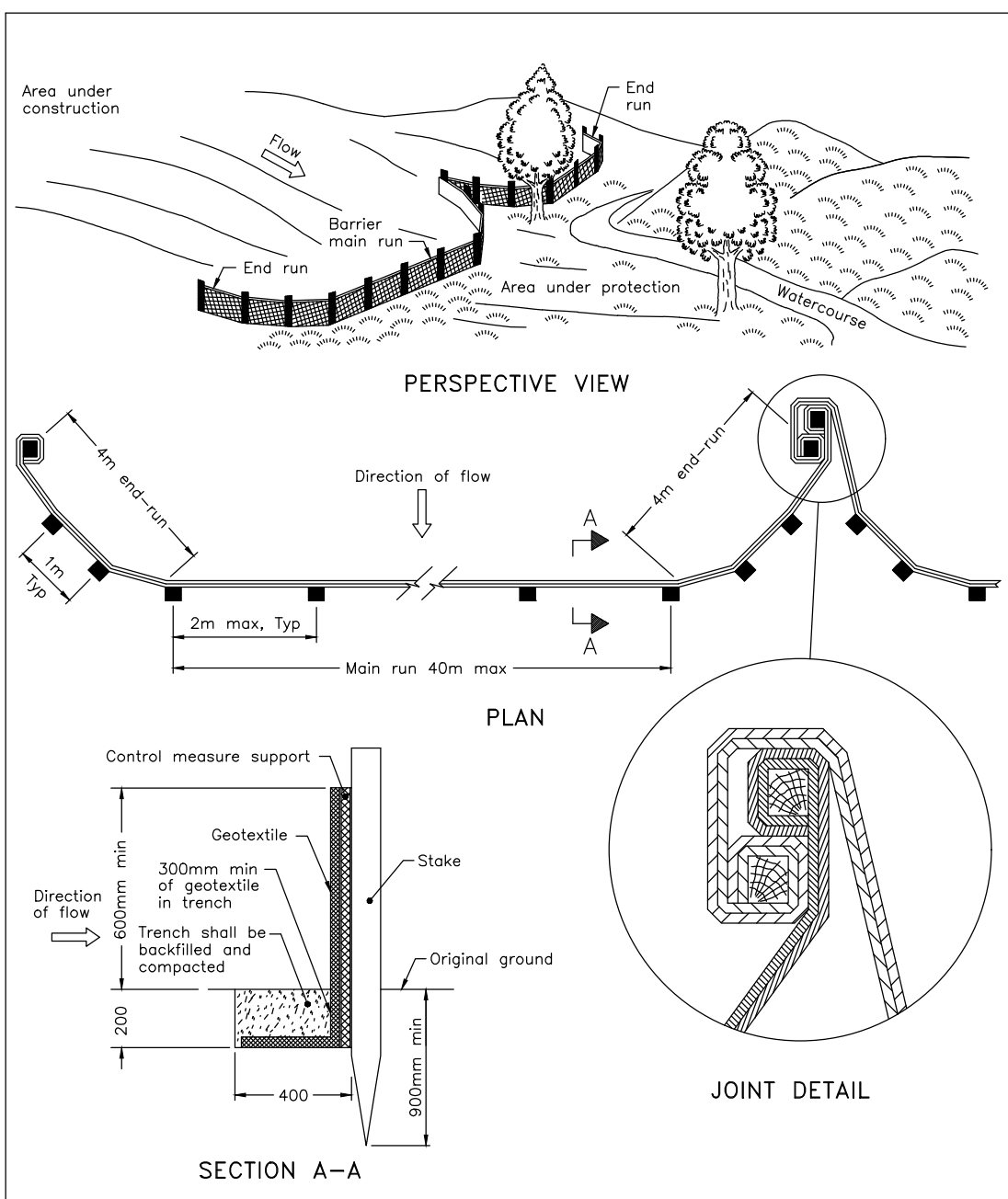
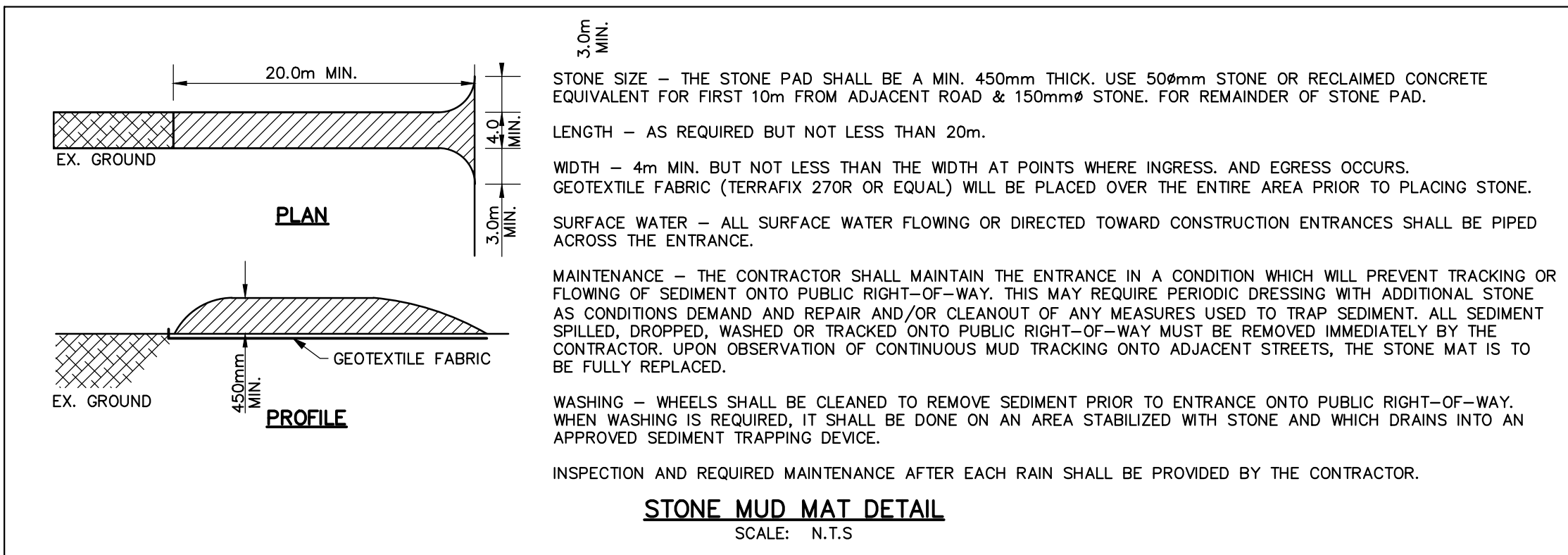


LEGEND
PHASING BOUNDARY

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.	TOPOGRAPHIC SURVEY COMPLETED BY A.R. (SANDY) WAKELING SURVEYING TECHNICAL SERVICES IN APRIL 18, 2017 AND RICHMOND SURVEYING INC. IN MARCH 28, 2024. TBM1: SURVEY SPIKE ON SOUTHERLY FACE OF HYDRO POLE ON NORTH SIDE OF ZEPHYR ROAD, FIRST POLE WEST OF DRIVEWAY INTO 322 ZEPHYR ROAD. ELEVATION: 238.74. TBM2: TOP OF STANDARD IRON BAR AT THE SOUTH WESTERLY CORNER OF PLAN PART 2 PLAN 40R-3497 ELEVATION: 250.59	No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP	HIDDEN RIDGE SUBDIVISION TOWNSHIP OF UXBRIDGE PHASING PLAN PH-1
		1.	FIRST SUBMISSION FOR APPROVAL	JUL, 2025	Licensed Professional Engineer J.R. KSH 180123062 July 18, 2025 Province of Ontario	

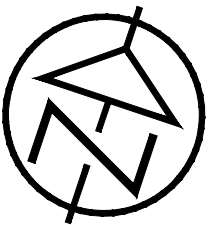
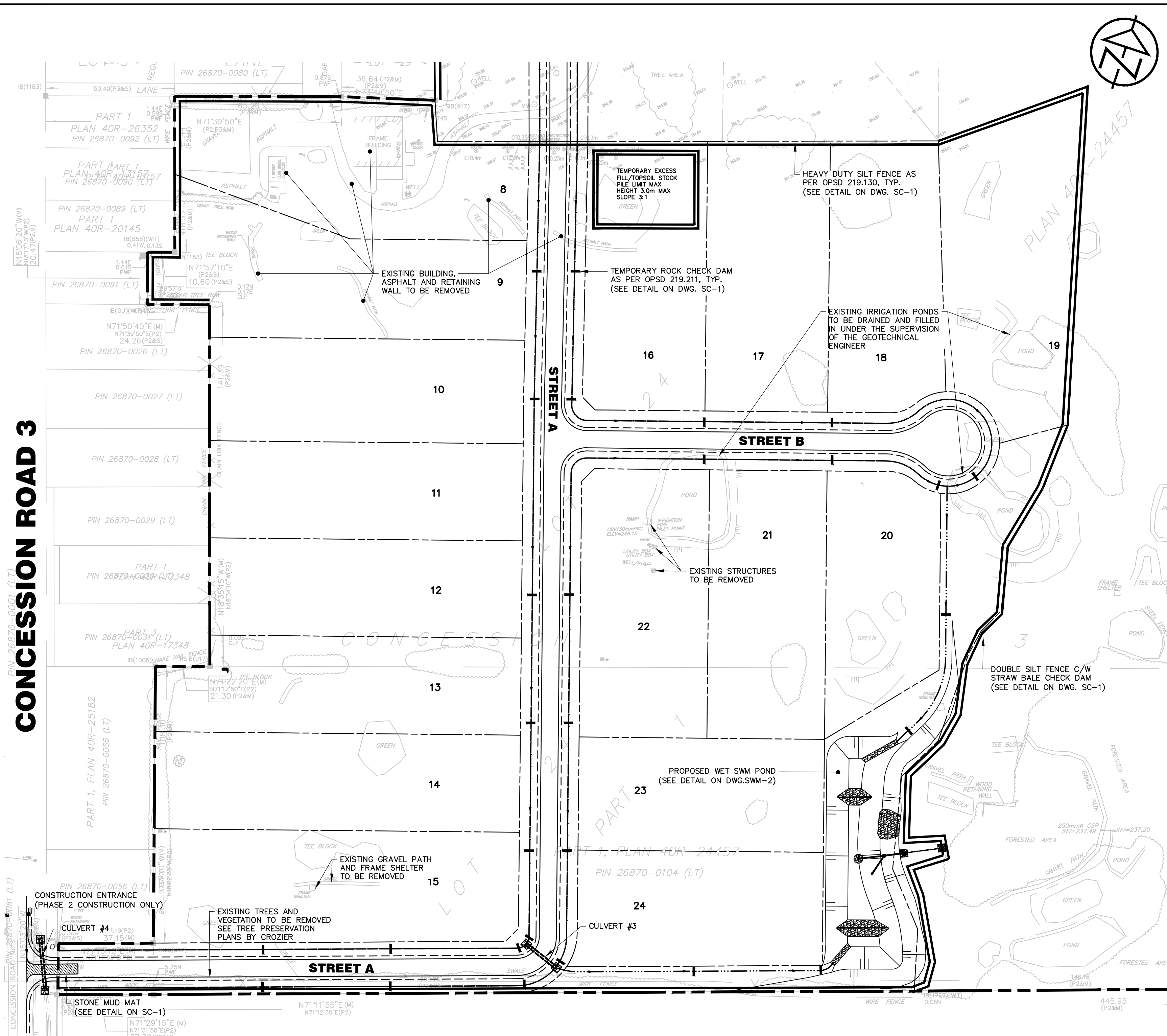


- NOTES**
- A. CONTRACTOR TO INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN PRIOR TO ANY SITE DEVELOPMENT.
 - B. ALL ROAD, EASEMENT AND PERIMETER DITCHES TO BE INSTALLED TO FINAL GRADE AND EQUIPPED WITH TEMPORARY ROCK CHECK DAMS AS SHOWN PRIOR TO GRADING THE ENTIRE SITE. THE PERMANENT DRY SWALES INCLUDING THE ENGINEERED SOIL FILTER MEDIA AND SUBDRAIN TO BE INSTALLED AFTER THE SITE HAS STABILIZED AND AFTER APPROVAL BY THE ENGINEER.
 - C. ROADWAY SHALL BE CONSTRUCTED PRIOR TO ANY LOT DEVELOPMENT. ALL ROAD DITCHES AND DRAINAGE EASEMENT TO BE STABILIZED WITH 100mm TOPSOIL AND SOD IMMEDIATELY FOLLOWING GRADING. WHERE DRY SWALES ARE SPECIFIED, DITCHES ARE TO BE RESTORED INITIALLY WITH HYDROSEED ON A TEMPORARY BASIS AND WITH SOD (AND NILEX SC250 WHERE SPECIFIED) AFTER FILTER MEDIA AND SUBDRAIN HAVE BEEN INSTALLED.
 - D. SEDIMENT CONTROL ON EACH INDIVIDUAL LOT WILL BE REQUIRED AT THE TIME OF LOT DEVELOPMENT.
 - E. CONTRACTOR TO INSTALL AND MAINTAIN ROCK CHECK DAMS AND SILT FENCE AT LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER.
 - F. CONSTRUCT AND MAINTAIN CONSTRUCTION ENTRANCE AS SHOWN.
 - G. CONTRACTOR TO ARRANGE PRE-CONSTRUCTION MEETING WITH ENGINEER AFTER PLACING ALL SILTATION CONTROL WORKS.
 - H. SILTATION CONTROL WORKS TO BE INSPECTED AFTER EACH RAINFALL AND REPAIRED AS REQUIRED.
 - I. ALL SILT FENCE MUST BE INSTALLED PRIOR TO CONSTRUCTION TO OPSD 219.130.
 - J. ALL SEDIMENT CONTROL WORKS MUST BE CLEANED AND MAINTAINED AFTER EACH MAJOR STORM EVENT OR AS DEEMED NECESSARY BY THE ENGINEER.
 - K. THE ENGINEER WILL INSPECT THE SEDIMENT AND EROSION CONTROL MEASURES WEEKLY AND AFTER EACH MAJOR STORM EVENT. THE ENGINEER WILL NOTIFY THE CONTRACTOR OF CORRECTIVE ACTIONS REQUIRED AS SOON AS DEFICIENCIES ARE NOTED. HOWEVER THE CONTRACTOR MAINTAINS ULTIMATE RESPONSIBILITY TO ENSURE PROPER SEDIMENT AND EROSION CONTROL MEASURES ARE IMPLEMENTED AND MAINTAINED. ALL DEFICIENCIES AND CORRECTIVE MEASURES WILL BE DOCUMENTED IN A WEEKLY INSPECTION REPORT.
 - L. IF CONSTRUCTION IS INTERRUPTED AND/OR INACTIVITY EXCEEDS 30 DAYS, THEN STOCKPILED, STRIPPED OR EXPOSED AREAS MUST BE STABILIZED BY HYDROSEEDING AND ANY OTHER APPROPRIATE GEOTEXTILE MATERIAL, IF REQUIRED.
 - M. REMOVAL OF ALL SILT FENCES AND TEMPORARY ROCK CHECK DAMS AT THE END OF CONSTRUCTION TO BE APPROVED BY THE ENGINEER AFTER THE SITE HAS STABILIZED.
 - N. ALL ROCK CHECK DAMS TO BE INSTALLED AS PER OPSD 219.211.
 - O. ALL CONSTRUCTION VEHICLES TO ACCESS THE SITE USING THE DESIGNATED CONSTRUCTION ENTRANCES.

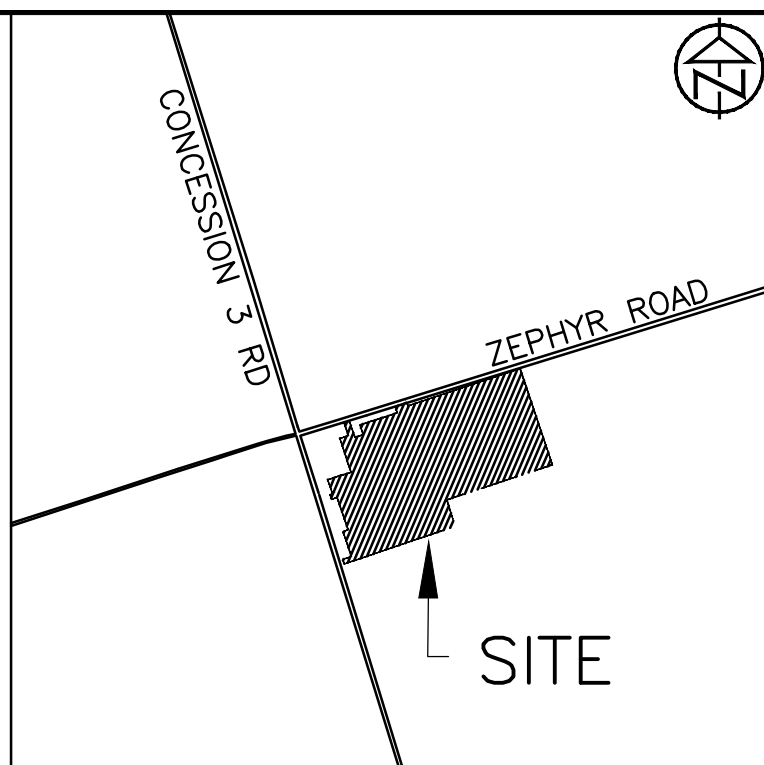


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							REMOVALS, SILTATION AND EROSION CONTROL PLAN (PHASE 1)	DESIGN: HY DRAWN: HY CHECK: JA	FILE: 516655 DATE: SEPT 2024 SCALE: 1:750	DWG: SC-1	

CONCESSION ROAD 3



- NOTES**
- WET SWM POND IS TO BE CONSTRUCTED PRIOR TO ANY OTHER SITE DEVELOPMENT IN PHASE 2 AND IS TO FUNCTION AS A SETTLING POND DURING CONSTRUCTION.
 - SEDIMENT ACCUMULATION IN THE POND MUST BE MEASURED A MINIMUM OF ONCE PER WEEK. THE POND WILL REQUIRE SEDIMENT REMOVAL WHERE SEDIMENT DEPTHS ARE IN EXCESS OF 0.25m. ALL ACCUMULATED SEDIMENT IN THE SEDIMENT POND IS TO BE TESTED ACCORDING TO THE CRITERIA CONTAINED IN THE APRIL 15, 2011 MINISTRY OF ENVIRONMENT "SOIL, GROUND, WATER AND SEDIMENT STANDARD FOR USE UNDER PART XV-1, OF THE ENVIRONMENT PROTECTION ACT" AND DISPOSED OF ACCORDINGLY AT AN APPROVED OFF SITE LOCATION. A FINAL POND CLEANOUT IS REQUIRED PRIOR TO ASSUMPTION OF PHASE 2 BY THE TOWNSHIP REGARDLESS OF HOW MANY CLEANOUT HAVE TAKEN PLACE PRIOR.
 - CONTRACTOR TO INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN PRIOR TO ANY SITE DEVELOPMENT.
 - ALL ROAD, EASEMENT AND PERIMETER DITCHES TO BE INSTALLED TO FINAL GRADE AND EQUIPPED WITH TEMPORARY ROCK CHECK DAMS AS SHOWN PRIOR TO GRADING WITHIN THE PHASE 2 SITE. THE PERMANENT DRY SWALES INCLUDING THE ENGINEERED SOIL FILTER MEDIA AND SUBDRAIN TO BE INSTALLED AFTER THE SITE HAS STABILIZED AND AFTER APPROVAL BY THE ENGINEER.
 - ROADWAY SHALL BE CONSTRUCTED PRIOR TO ANY LOT DEVELOPMENT. ALL ROAD DITCHES AND DRAINAGE EASEMENT TO BE STABILIZED WITH 100mm TOPSOIL AND SOD IMMEDIATELY FOLLOWING GRADING WHERE DRY SWALES ARE SPECIFIED, DITCHES ARE TO BE RESTORED INITIALLY WITH HYDROSEED ON A TEMPORARY BASIS AND WITH SOD (AND NILEX SC250 WHERE SPECIFIED) AFTER FILTER MEDIA AND SUBDRAIN HAVE BEEN INSTALLED.
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KEY PLAN - N.T.S.

LEGEND

- PROPERTY BOUNDARY
- BOTTOM OF DITCH AND FLOW DIRECTION
- EXISTING CONTOUR

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No.	REVISION DESCRIPTION	DATE
1.	FIRST SUBMISSION FOR APPROVAL	JUL, 2025

ENGINEER STAMP



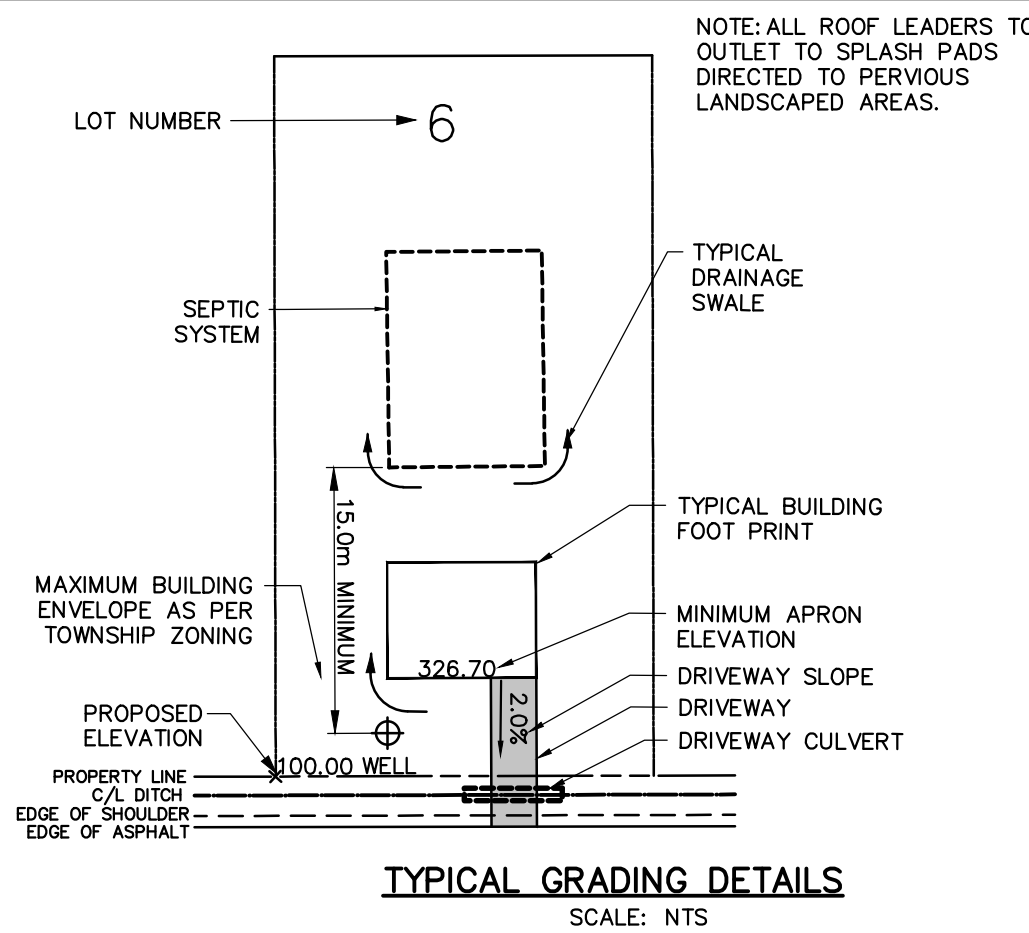
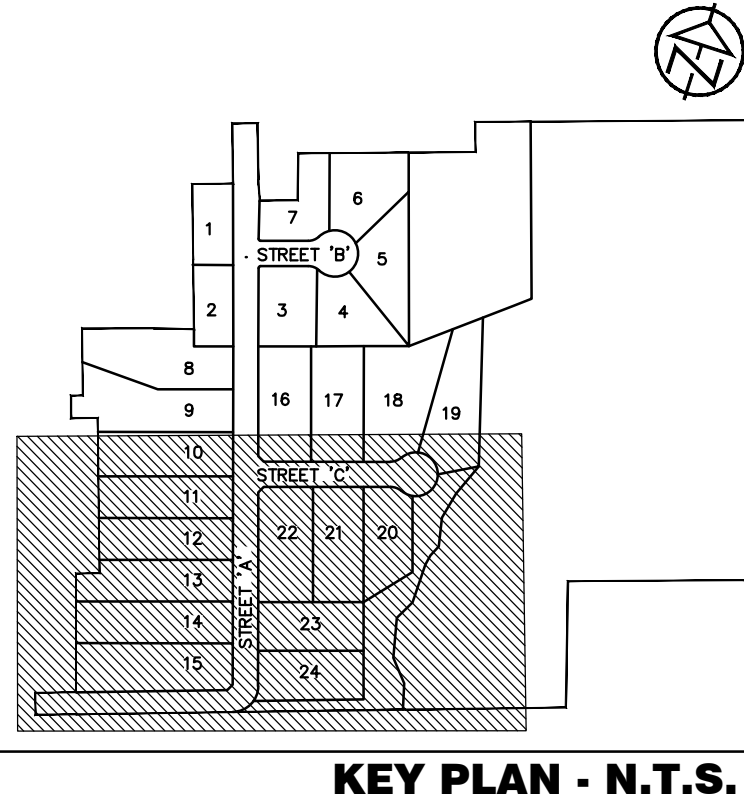
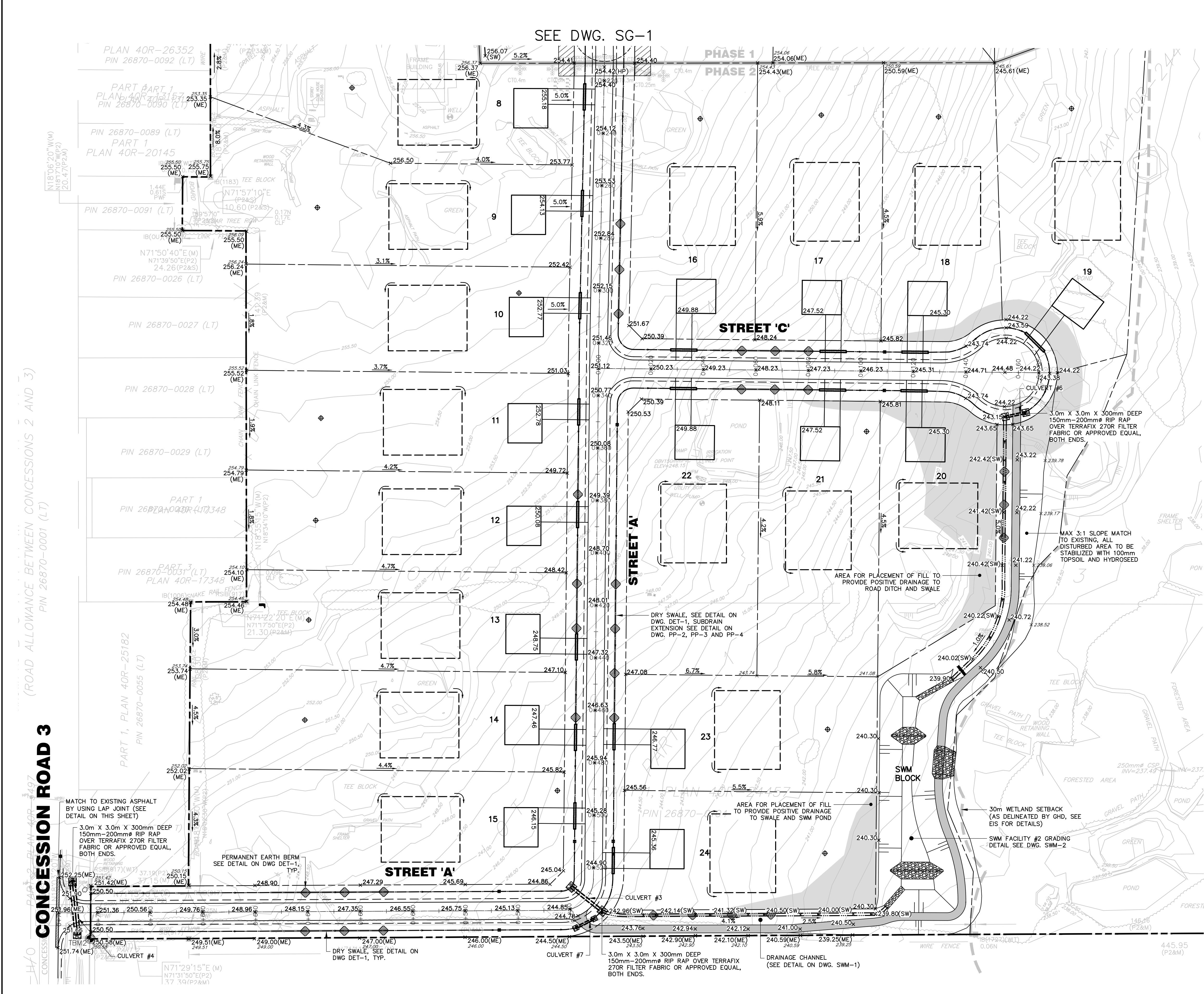
HIDDEN RIDGE SUBDIVISION
TOWNSHIP OF UXBRIDGE

REMOVALS, SILTATION AND
EROSION CONTROL PLAN
(PHASE 2)



DESIGN: HY	FILE: 516655	DWG:
DRAWN: HY	DATE: SEPT 2024	
CHECK: JA	SCALE: 1:1000	

SC-2



CULVERT#	SIZE (mm)	TYPE	LENGTH (m)	INVERT	
1 (Temporary)	300	HDPE	24.0	E INV	245.53
				W INV	245.33
2	450	HDPE	17.8	NW INV	250.90
				SE INV	251.53
3	525	HDPE	14.7	W INV	243.86
				E INV	243.66
4	450 X 2	HDPE	20.5	N INV	250.90
				S INV	250.80
5	375	HDPE	7.5	NW INV	251.20
				SE INV	251.24
6	375	HDPE	7.5	E INV	243.23
				W INV	243.15
7	375	HDPE	7.5	NE INV	243.68
				SW INV	243.72
8	450	HDPE	11.0	NE INV	238.85
				SW INV	237.90
9	375 X 2	HDPE	9.0	NW INV	239.00
				SE INV	238.38
DRIVEWAY CULVERT SCHEDULE					
1-24	375	HDPE	10.0		

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1.	FIRST SUBMISSION FOR APPROVAL	JUL, 2025	

HIDDEN RIDGE SUBDIVISION
TOWNSHIP OF UXBRIDGE

SITE GRADING PLAN
(PHASE 2)

DESIGN: HY

DRAWN: HY

CHECK: JA

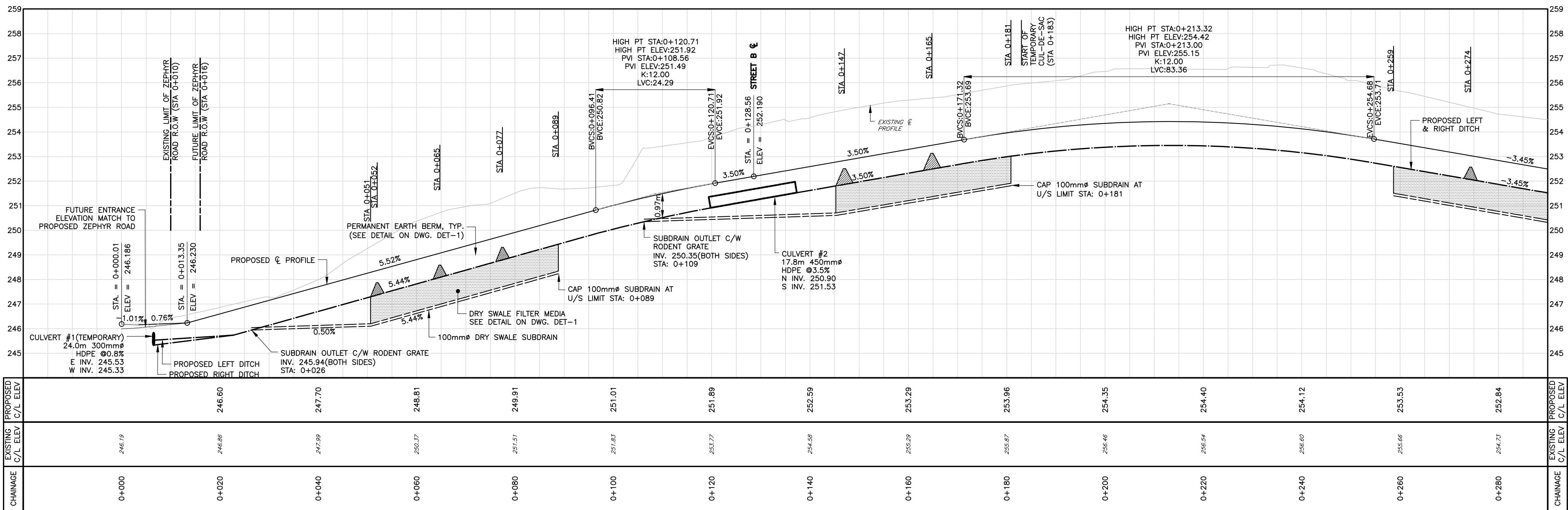
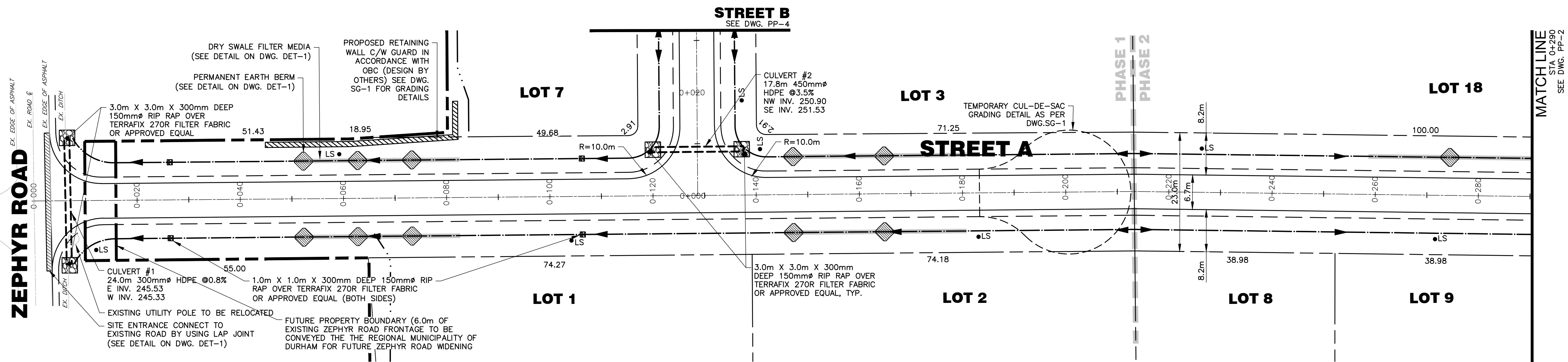
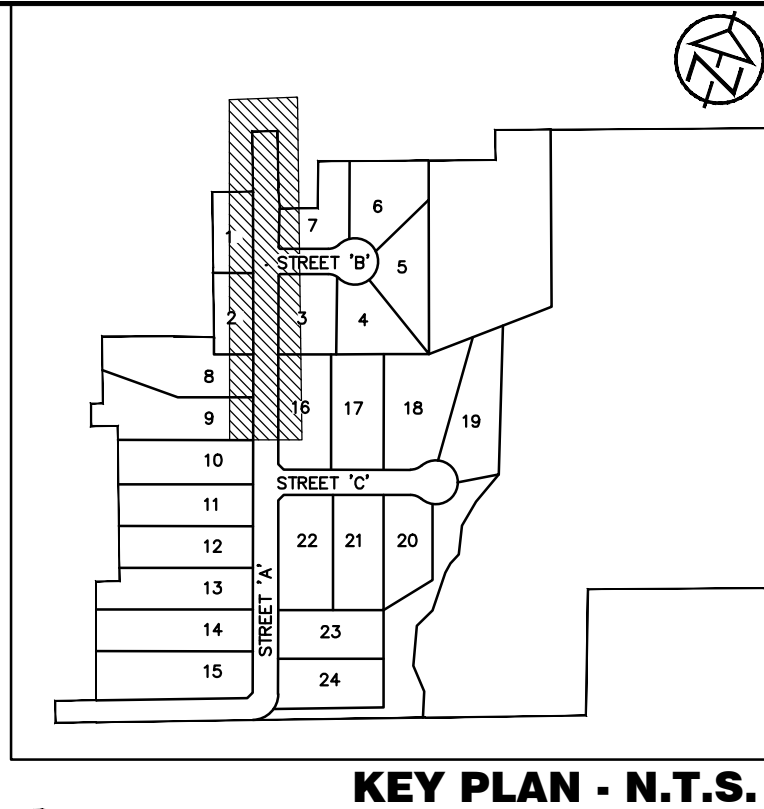
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DATE: SEPT 2024

SCALE: 1:750

DWG:
SG-2

Drawing Name: 516655-SG01.dwg, Plotted: Jul 16, 2025



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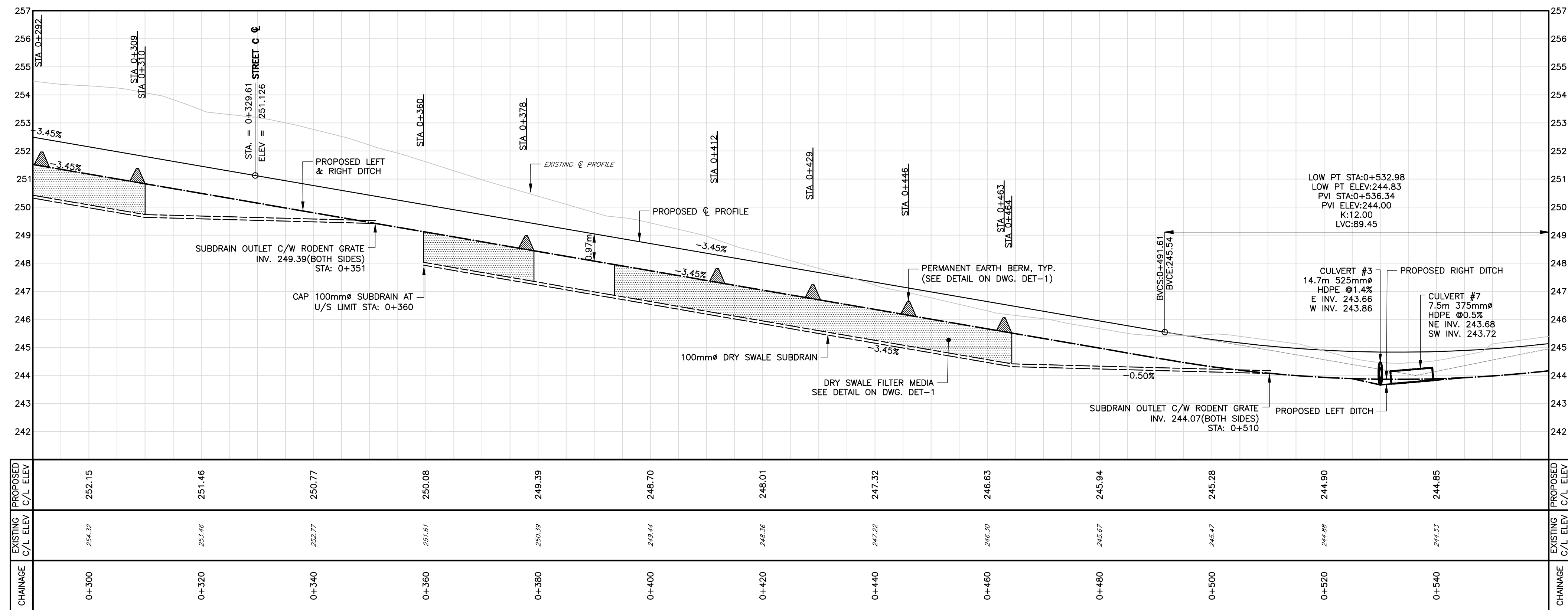
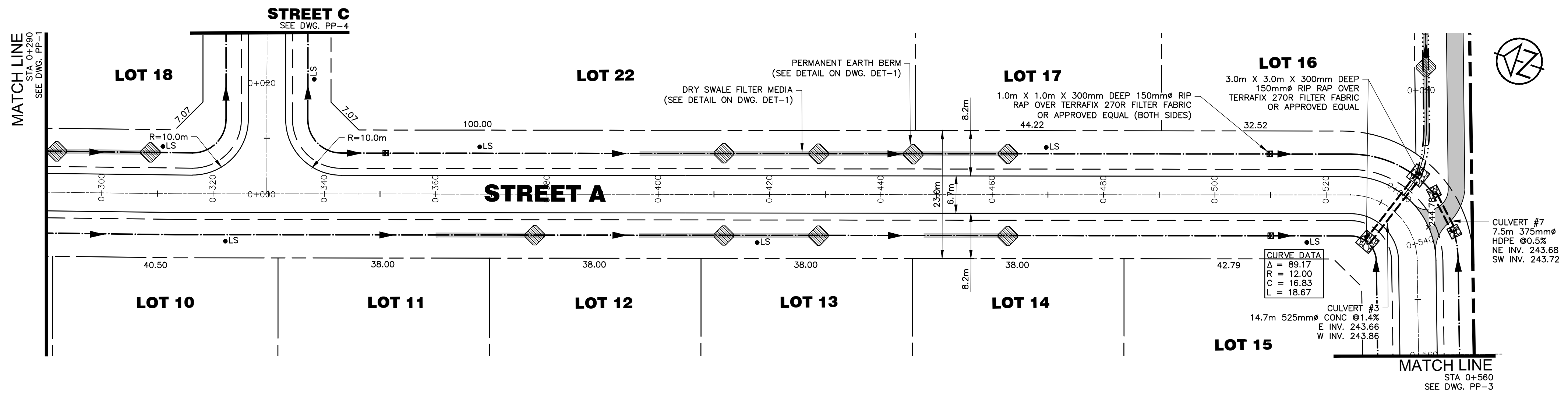
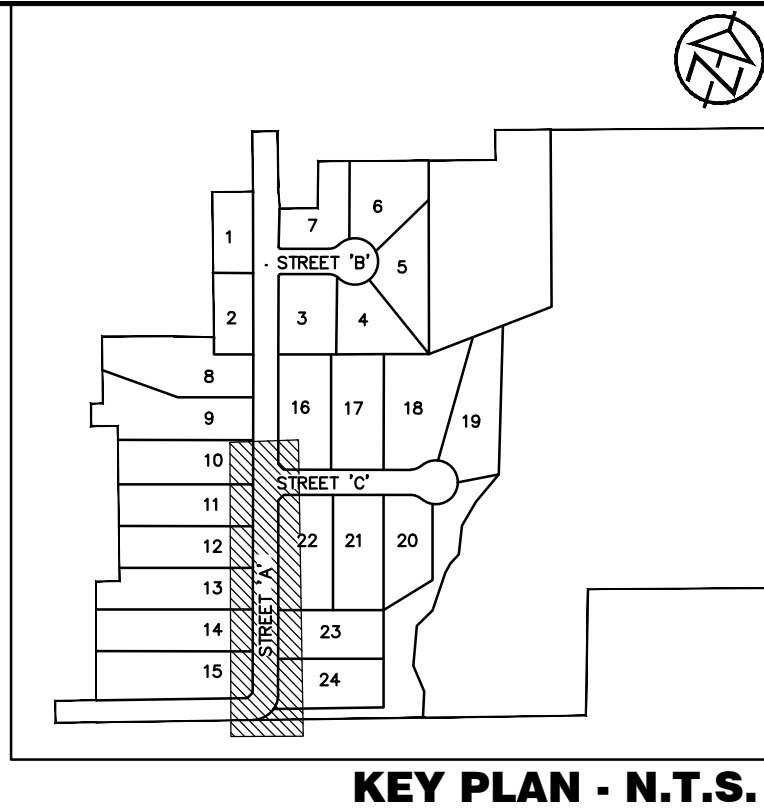
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HIDDEN RIDGE SUBDIVISION TOWNSHIP OF UXBRIDGE			TATHAM ENGINEERING		
STREET 'A' PLAN AND PROFILE STA: 0+000 TO 0+290			DESIGN: HY	FILE: 516655	PP-1
			DRAWN: HY	DATE: SEPT 2024	
			CHECK: JA	SCALE: H: 1:500 V: 1:100	



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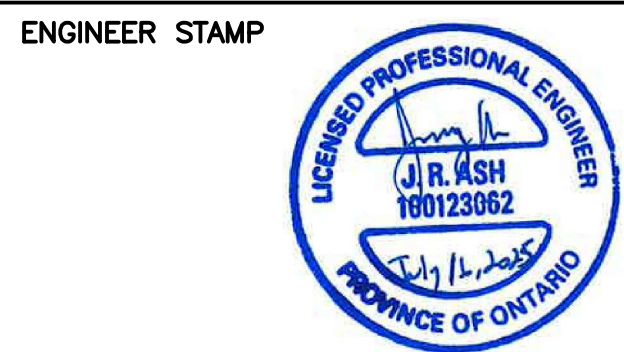
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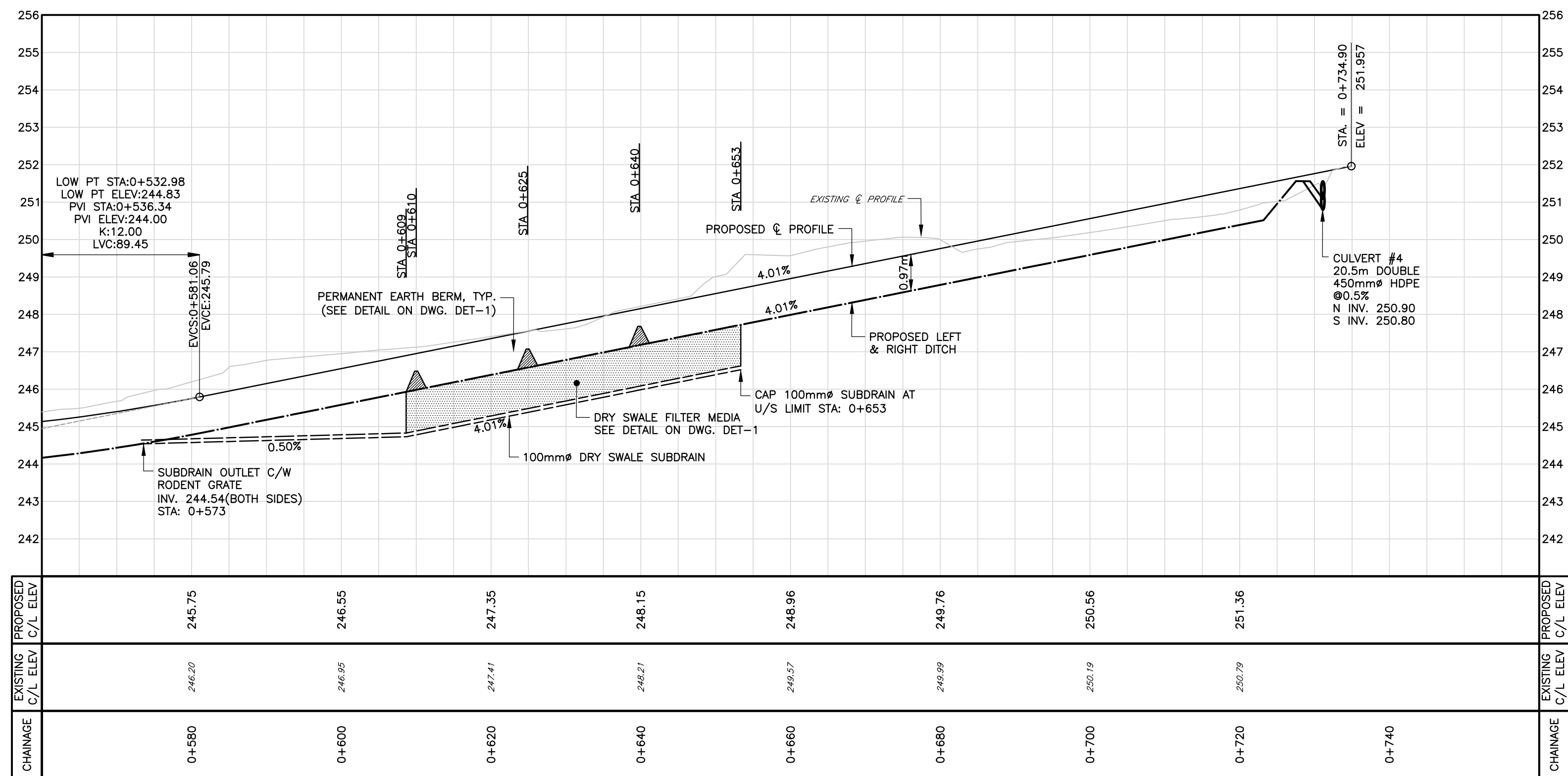
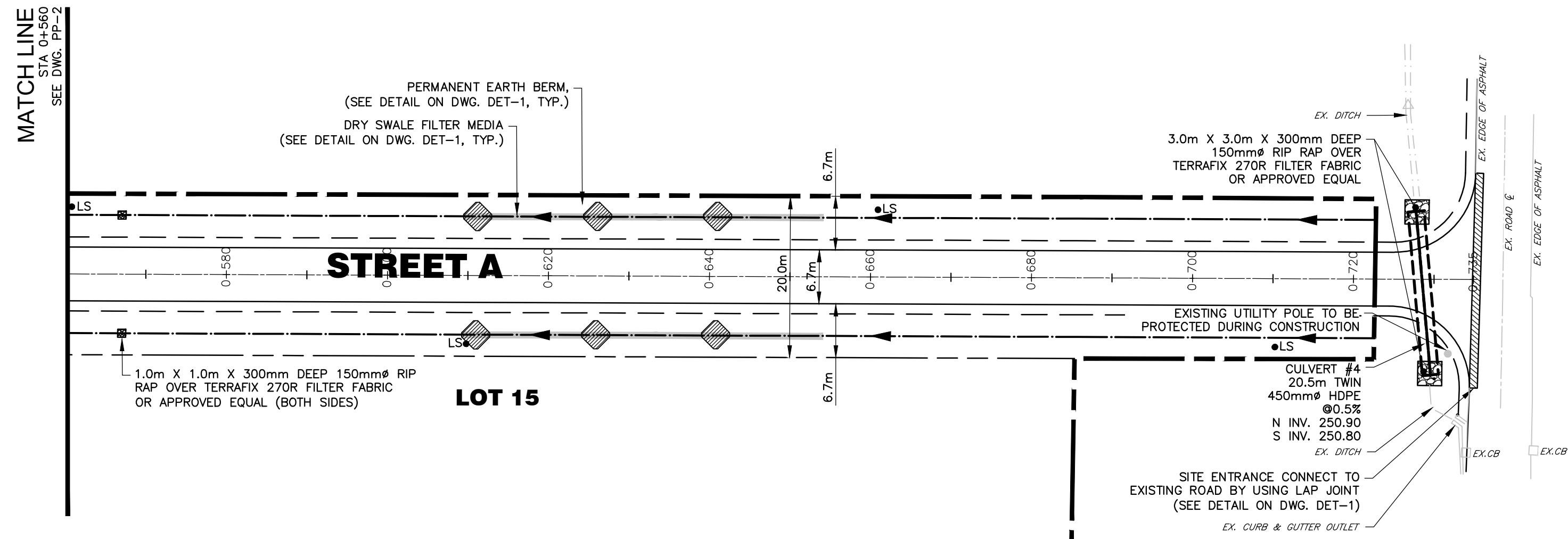
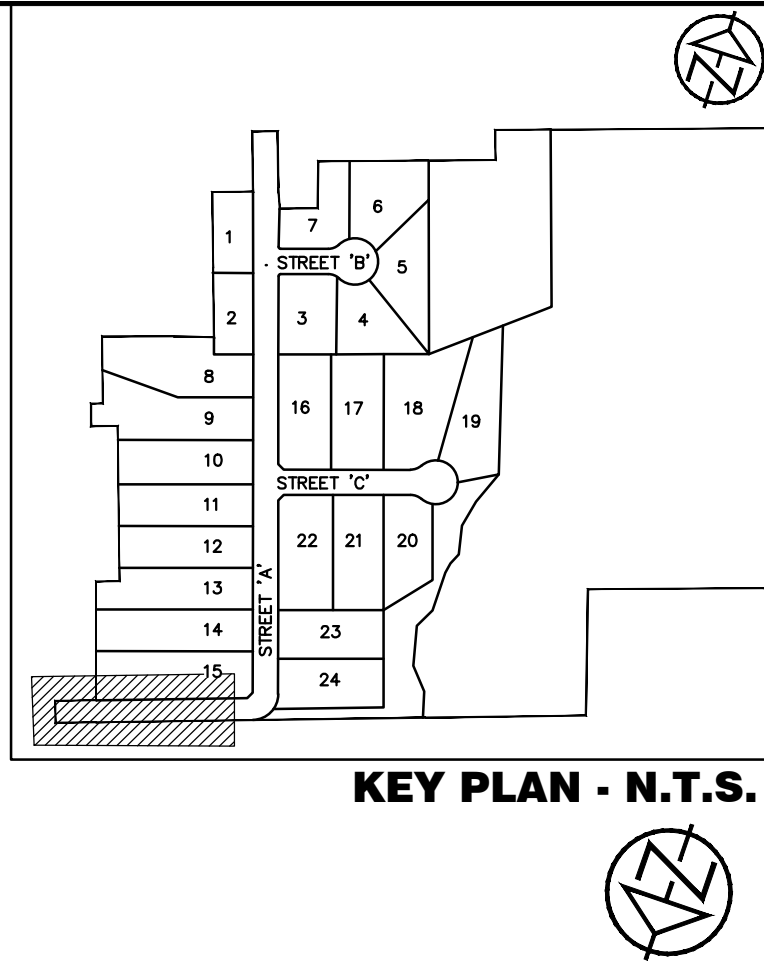


HIDDEN RIDGE SUBDIVISION
TOWNSHIP OF UXBRIDGE

STREET 'A' PLAN AND PROFILE
STA: 0+290 TO 0+560



DESIGN: HY	FILE: 516655	DWG: PP-2
DRAWN: HY	DATE: SEPT 2024	
CHECK: JA	SCALE: H: 1:500 V: 1:100	



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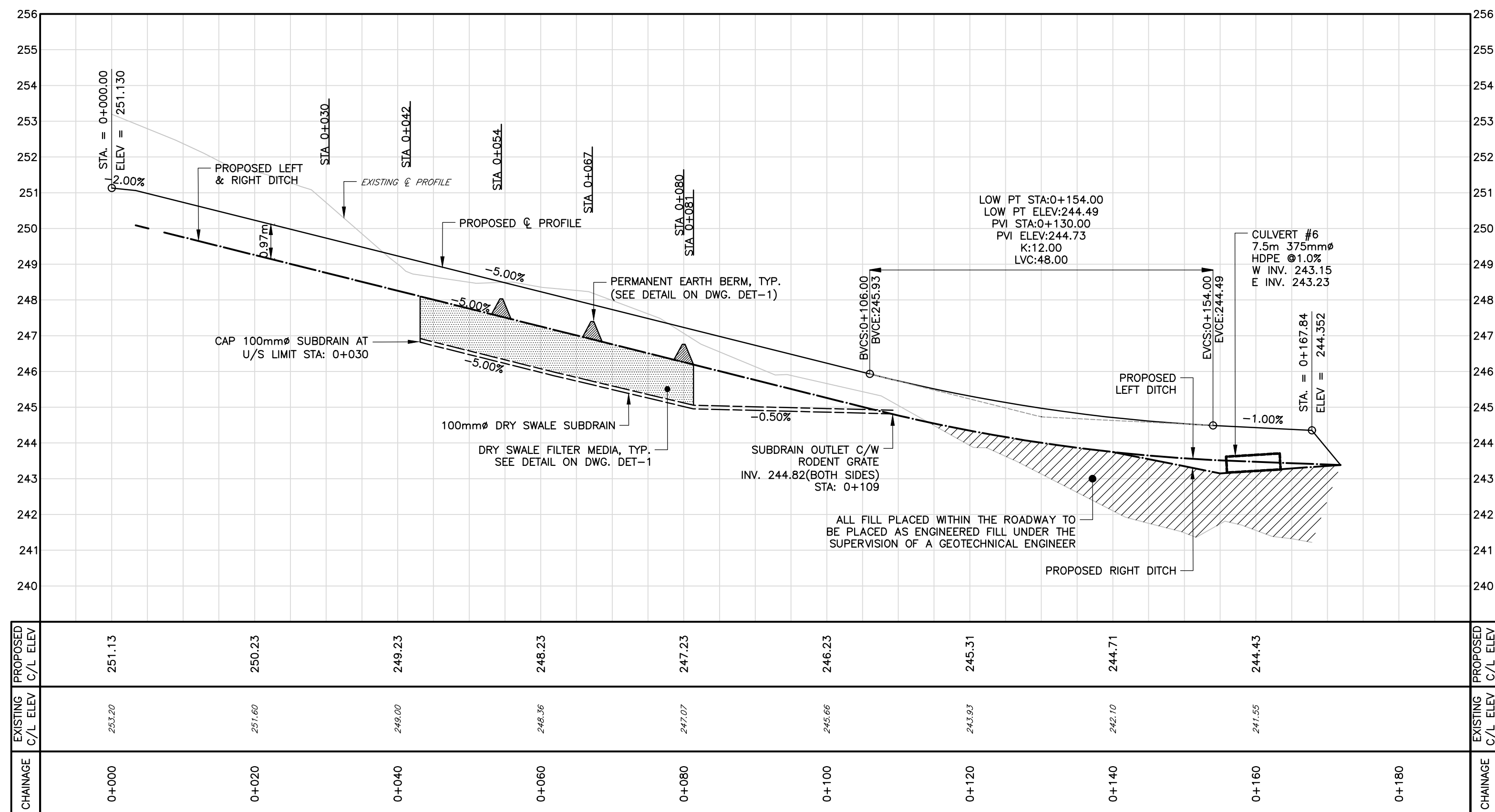
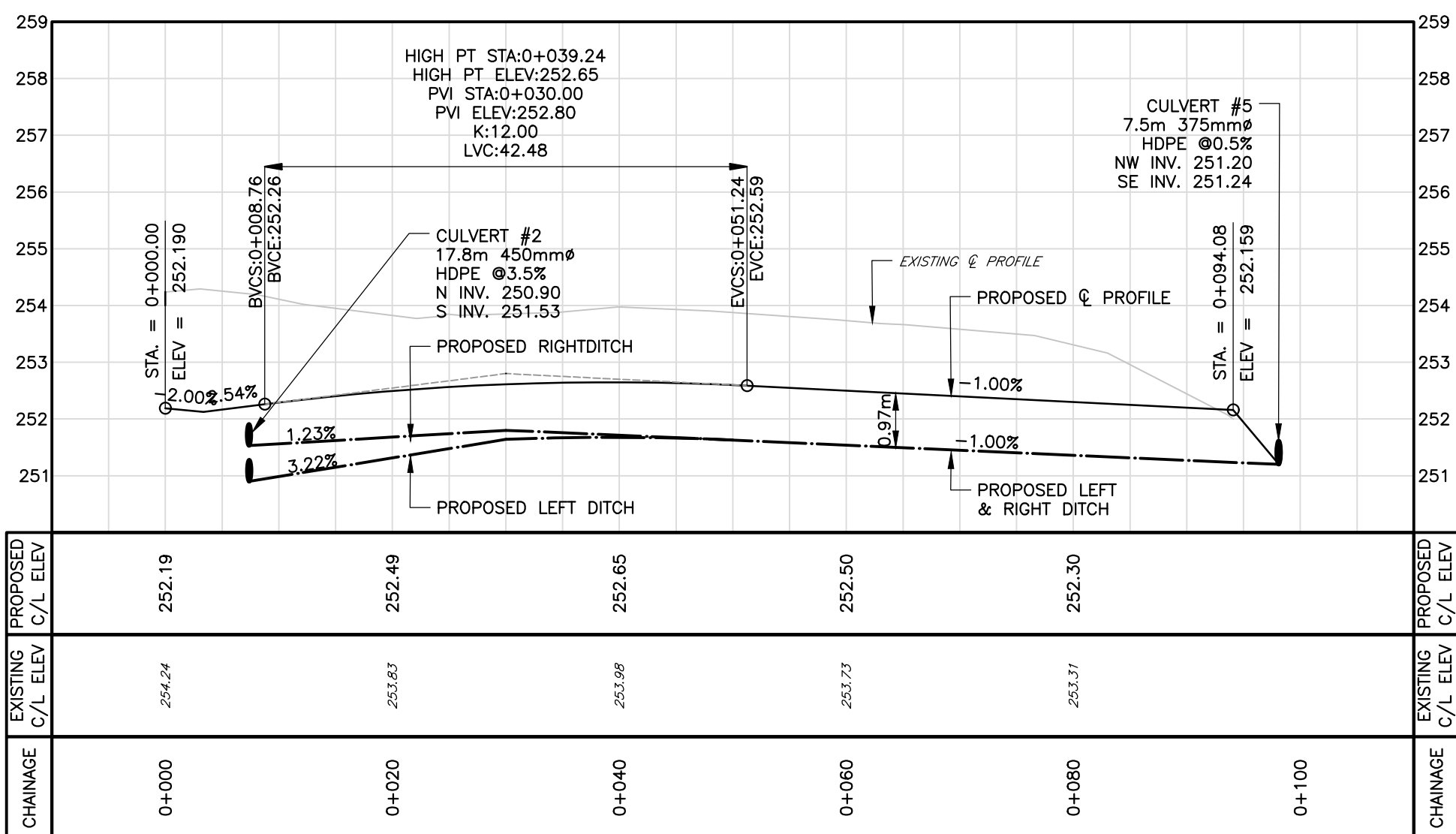
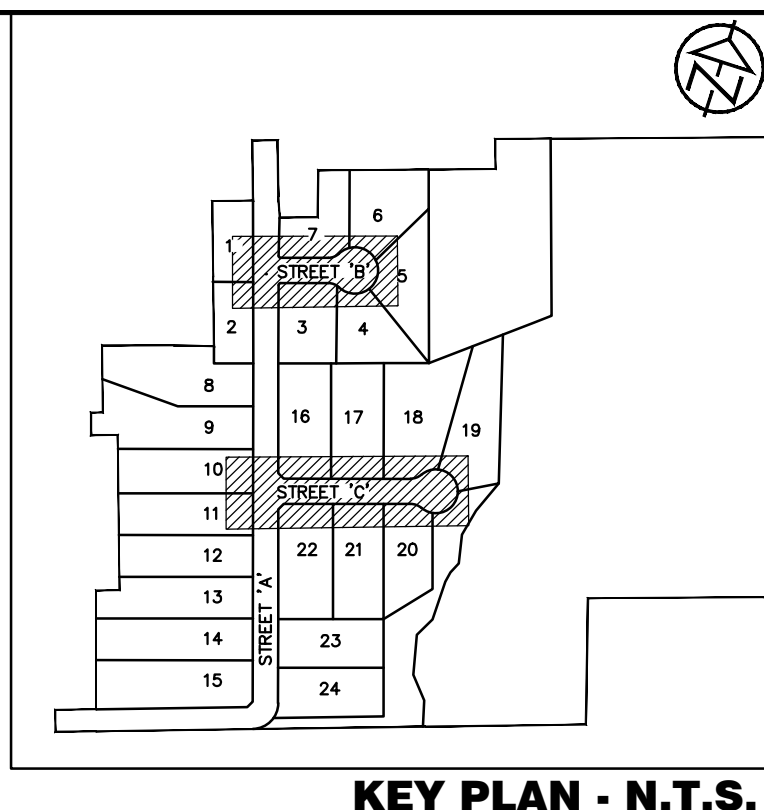
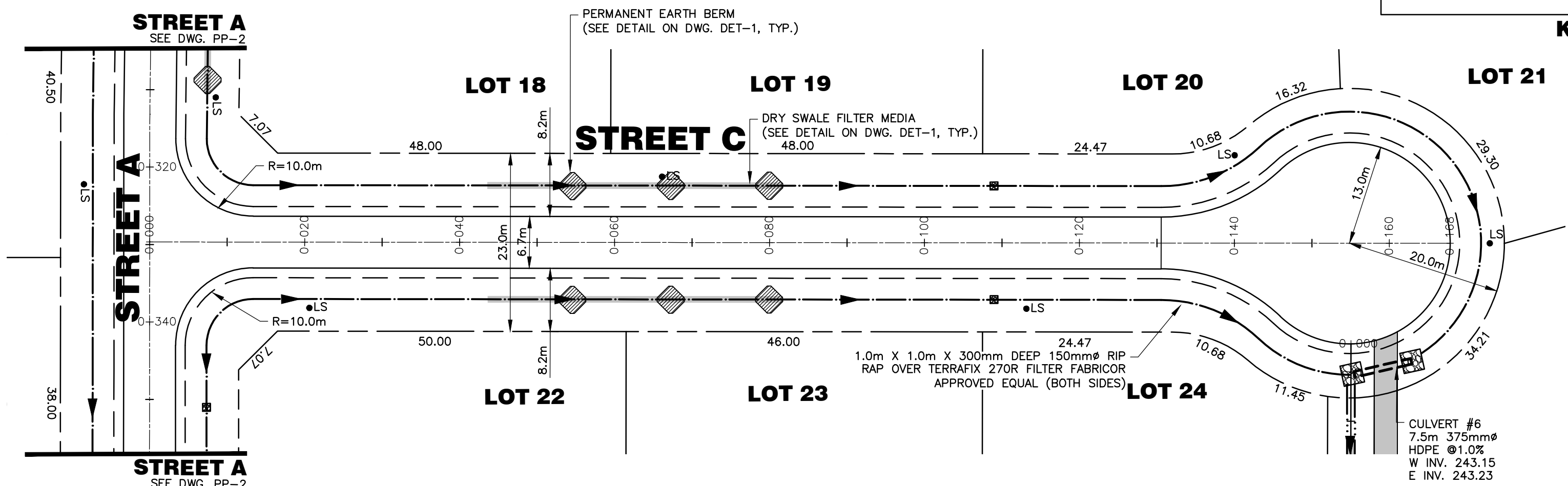
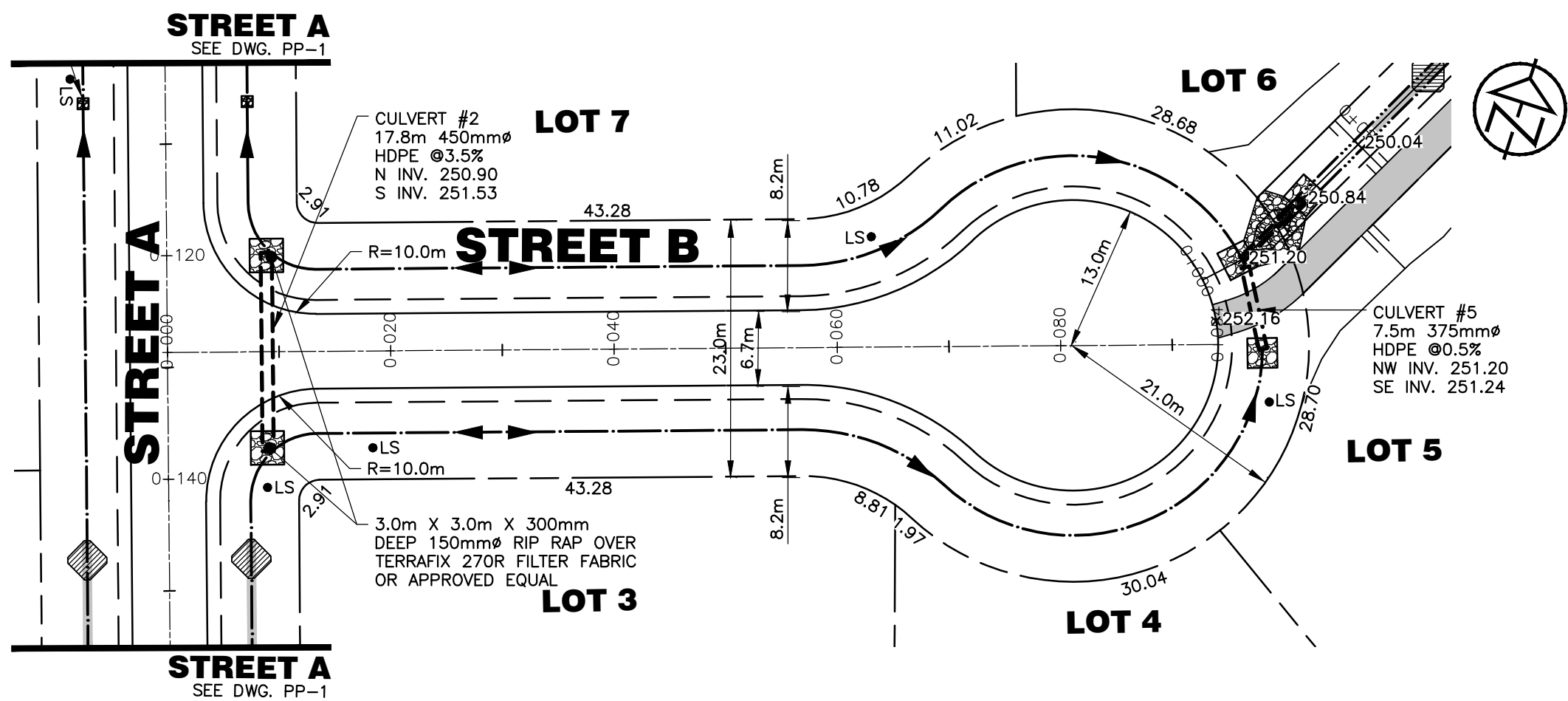


HIDDEN RIDGE SUBDIVISION
TOWNSHIP OF UXBRIDGE

STREET 'A' PLAN AND PROFILE
STA: 0+560 TO 0+735



DESIGN: HY	FILE: 516655	DWG:
DRAWN: HY	DATE: SEPT 2024	PP-3
CHECK: JA	SCALE: H: 1:500 V: 1:100	



DISCLAIMER AND COPYRIGHT

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TOPOGRAPHIC SURVEY COMPLETED BY A.R. (SANDY) WAKELING SURVEYING TECHNICAL SERVICES IN APRIL 18, 2017 AND RICHMOND SURVEYING INC. IN MARCH 28, 2024.

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TBM2: TOP OF STANDARD IRON BAR AT THE SOUTH WESTERLY CORNER OF PLAN PART 2 PLAN 40R-3497 ELEVATION: 250.59

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	FIRST SUBMISSION FOR APPROVAL	JUL, 2025	

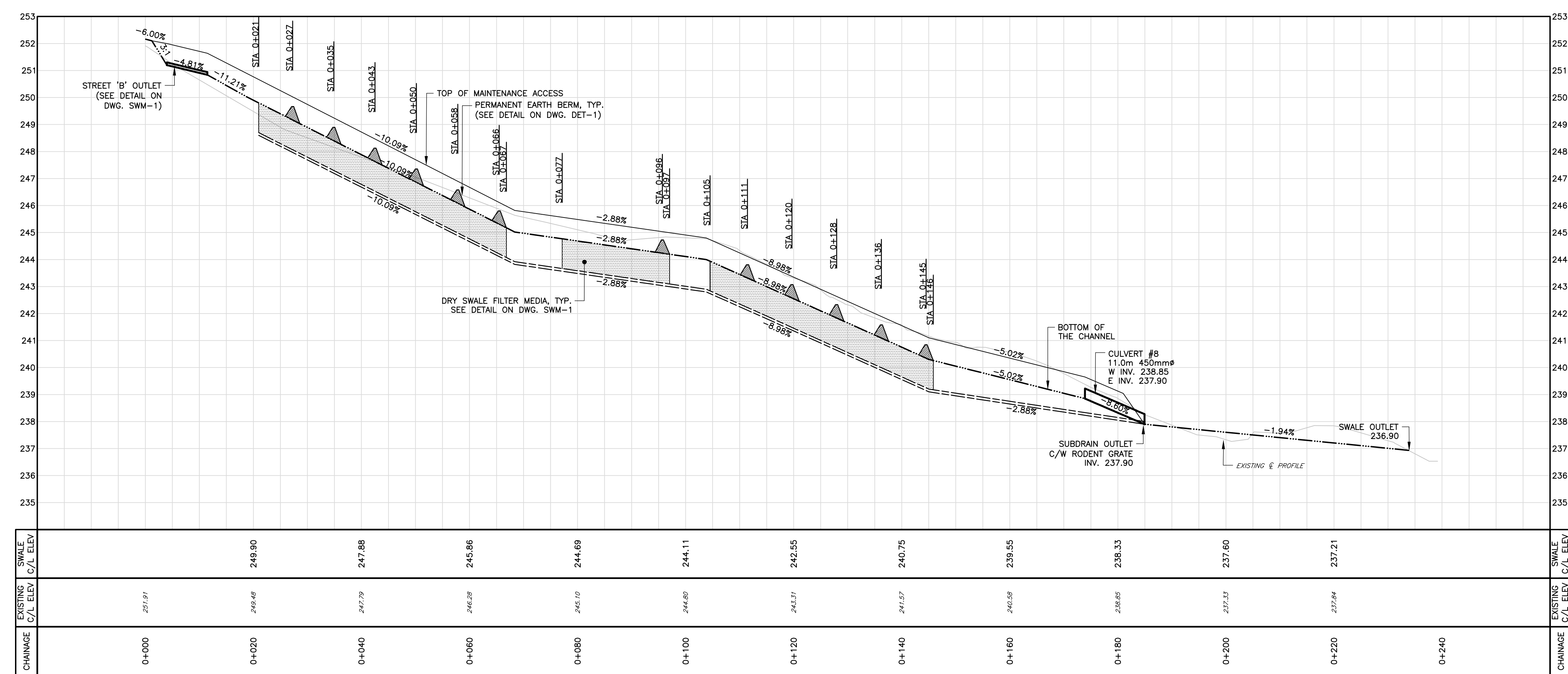
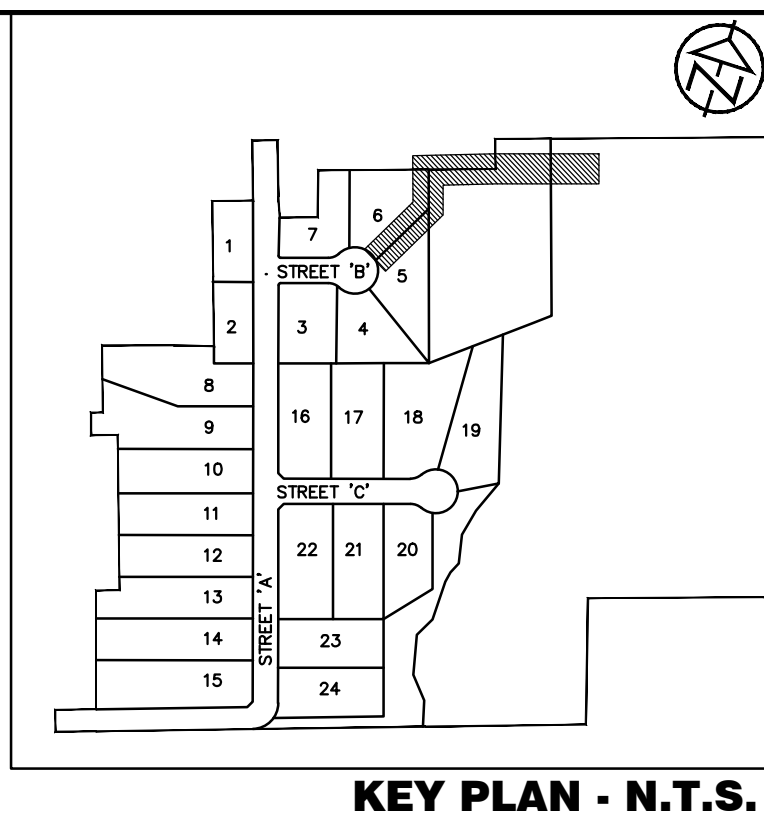
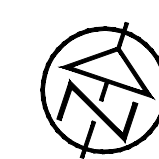
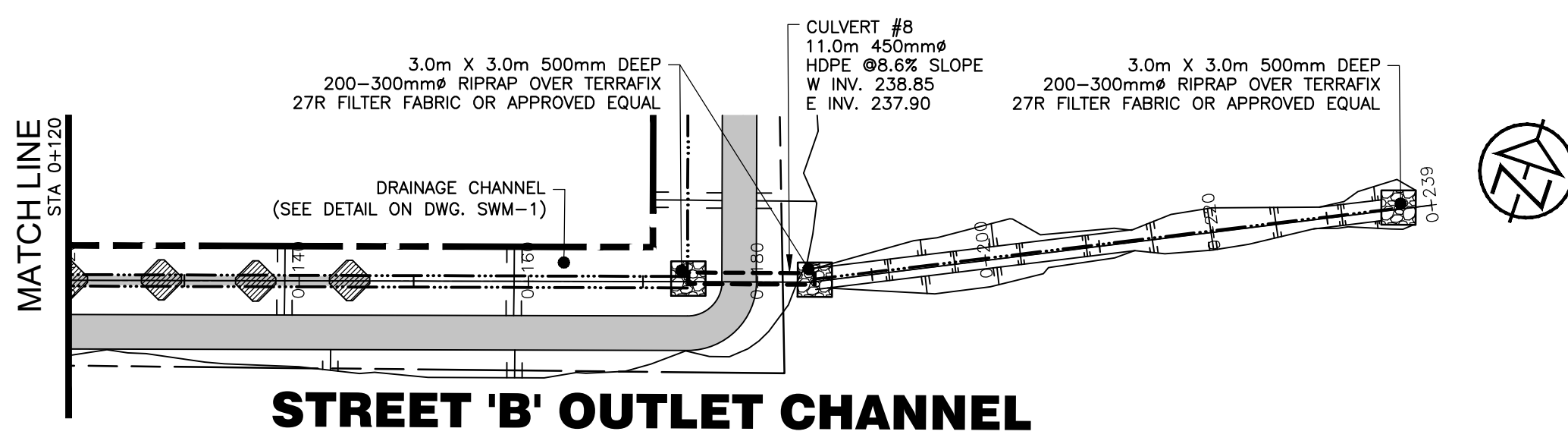
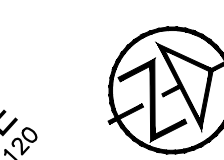
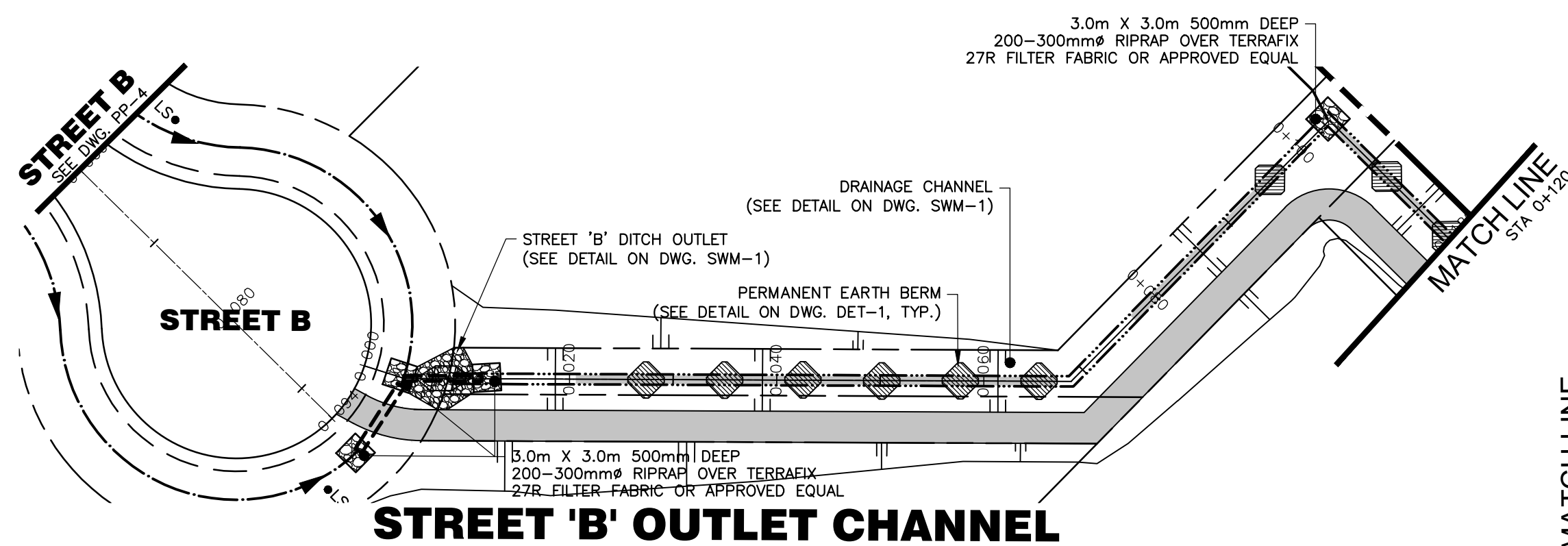


HIDDEN RIDGE SUBDIVISION TOWNSHIP OF UXBRIDGE

STREET 'B' AND STREET 'C' PLAN AND PROFILE



DESIGN: HY	FILE: 516655	DWG: PP-4
DRAWN: HY	DATE: SEPT 2024	
CHECK: JA	SCALE: H: 1:500 V: 1:100	



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No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	FIRST SUBMISSION FOR APPROVAL	JUL, 2025	

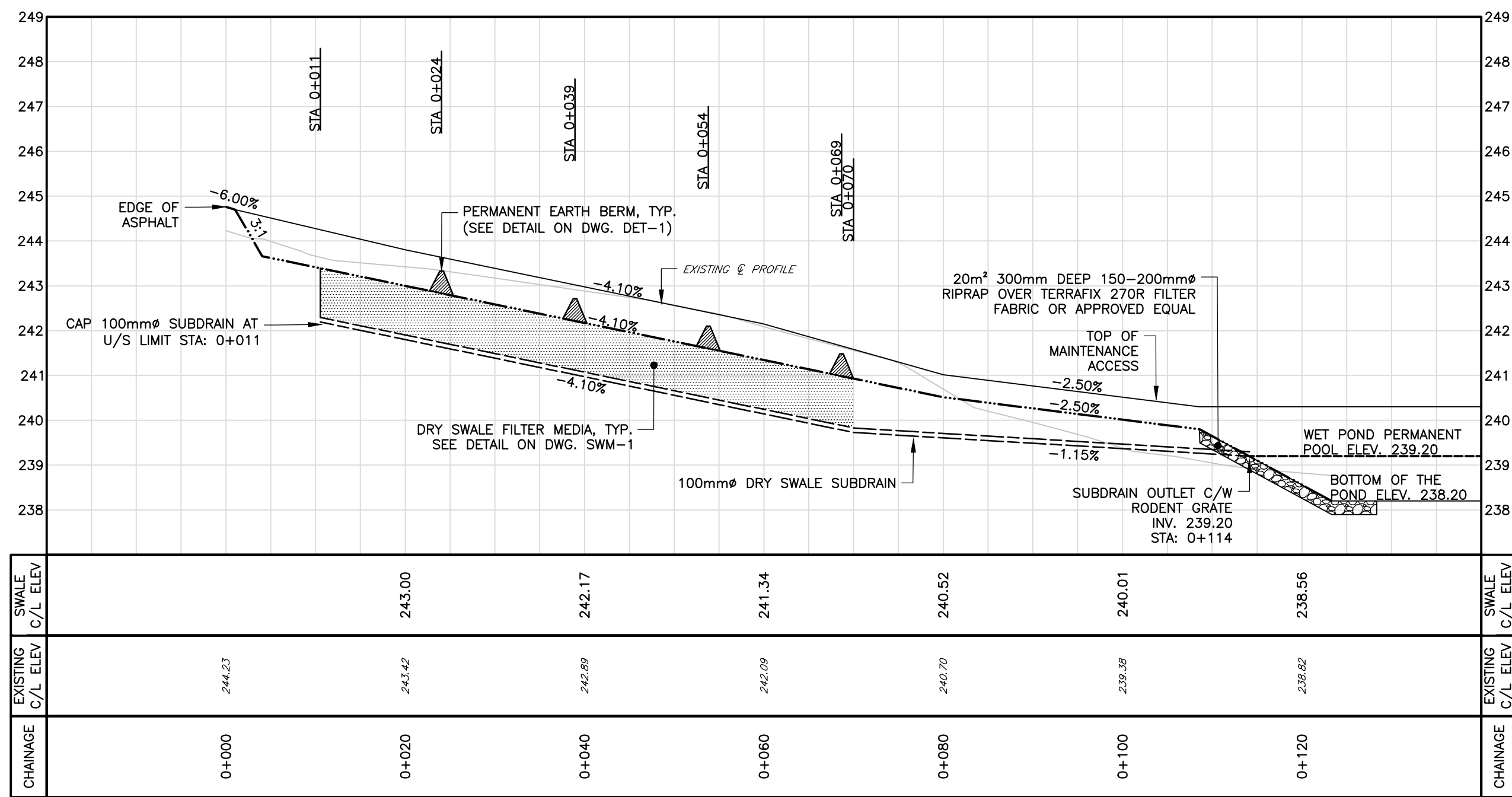
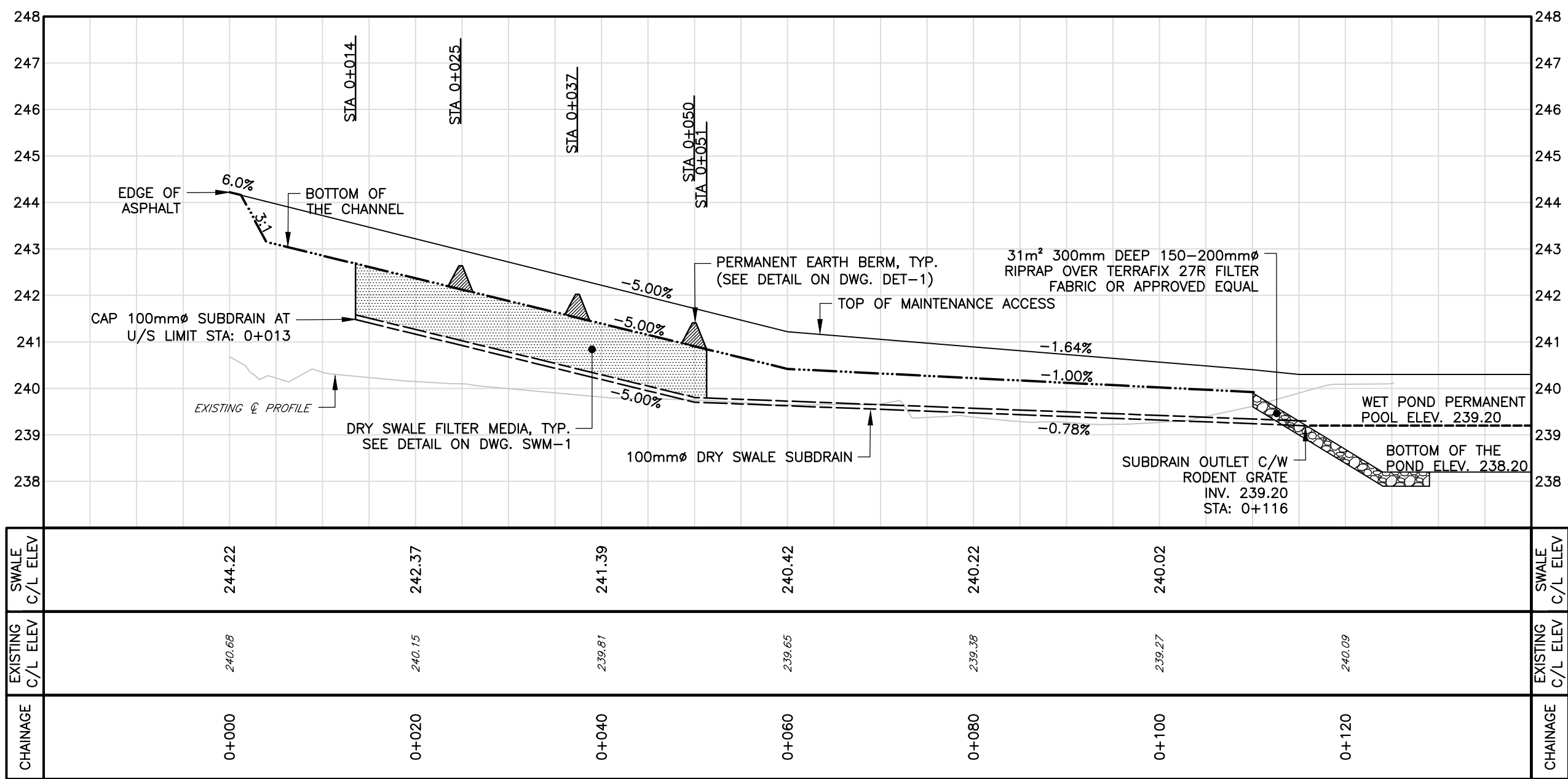
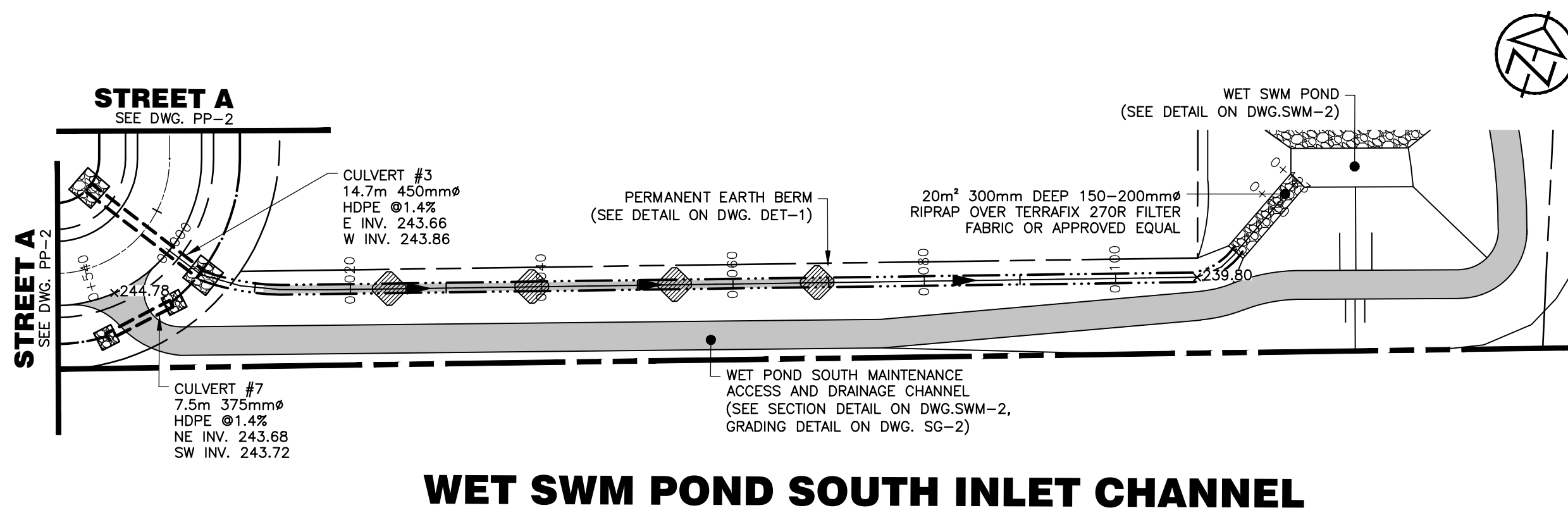
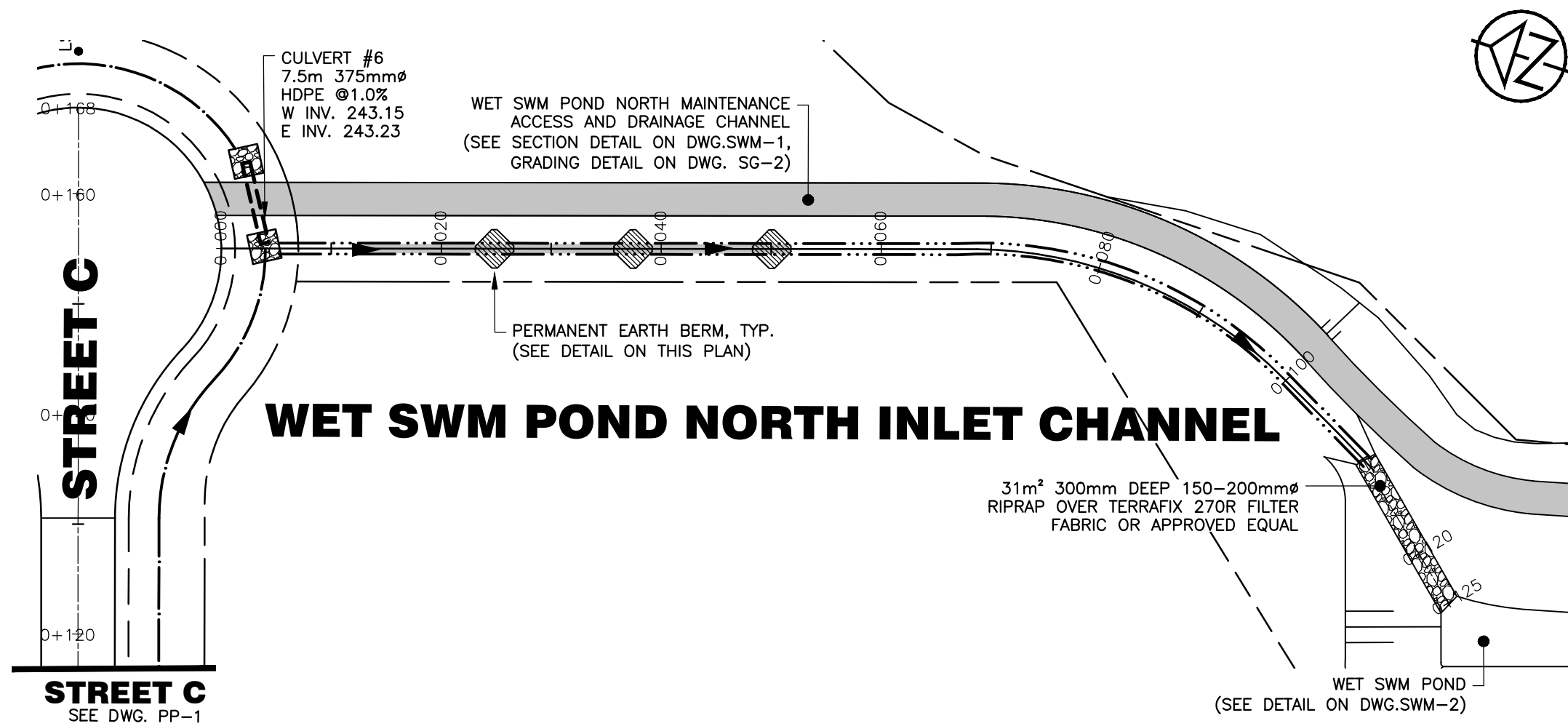
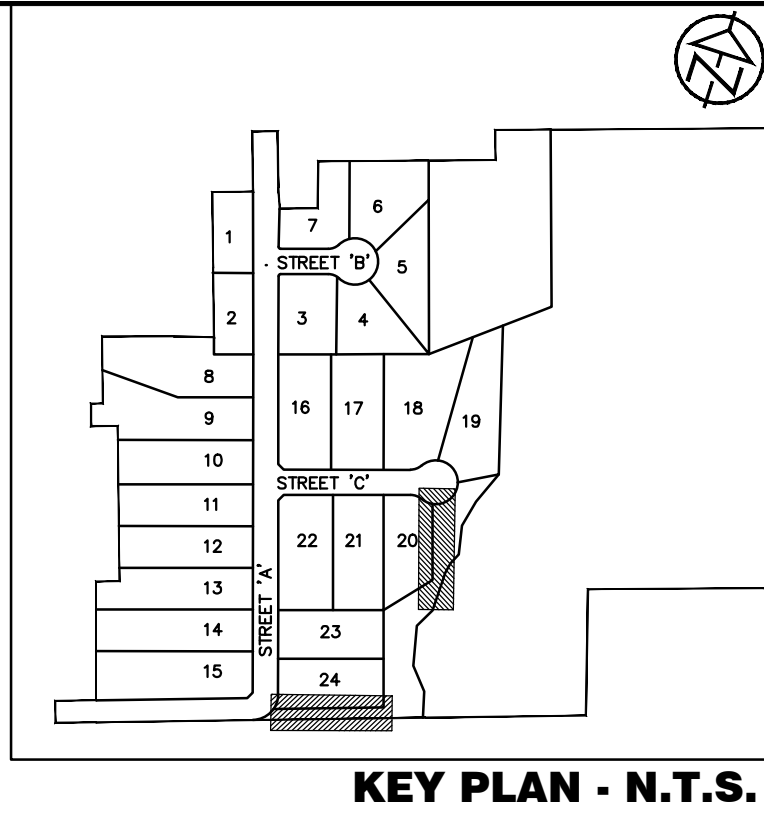
HIDDEN RIDGE SUBDIVISION

TOWNSHIP OF UXBRIDGE

STREET 'B' OUTLET CHANNEL

PLAN AND PROFILE

DESIGN: HY	FILE: 516655	DWG: PP-5
DRAWN: HY	DATE: SEPT 2024	
CHECK: JA	SCALE: H: 1:500 V: 1:100	



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No.	REVISION DESCRIPTION	DATE
1.	FIRST SUBMISSION FOR APPROVAL	JUL, 2025

ENGINEER STAMP



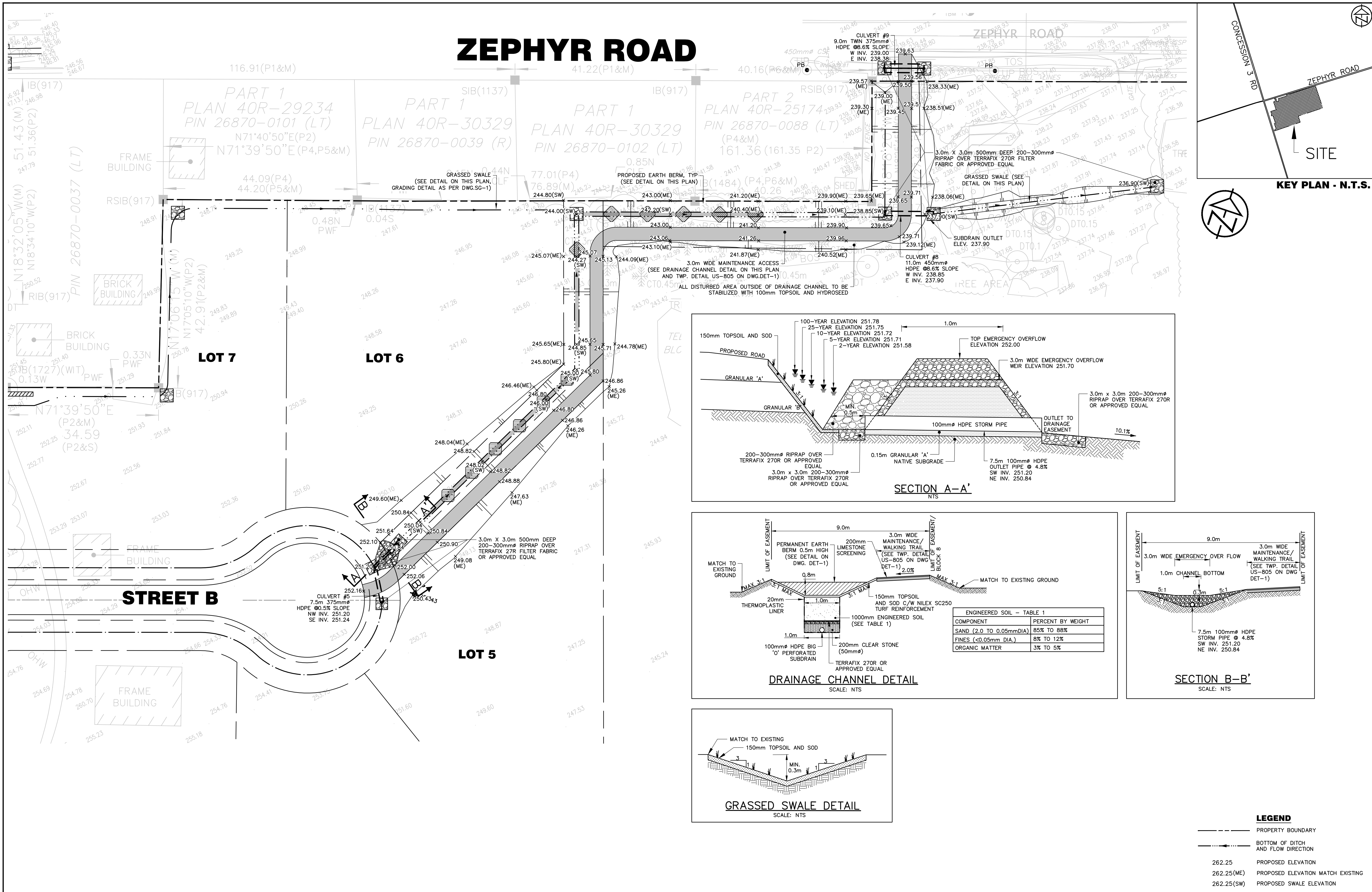
HIDDEN RIDGE SUBDIVISION
TOWNSHIP OF UXBRIDGE

WET SWM POND NORTH AND SOUTH
INLET CHANNEL PLAN AND PROFILE

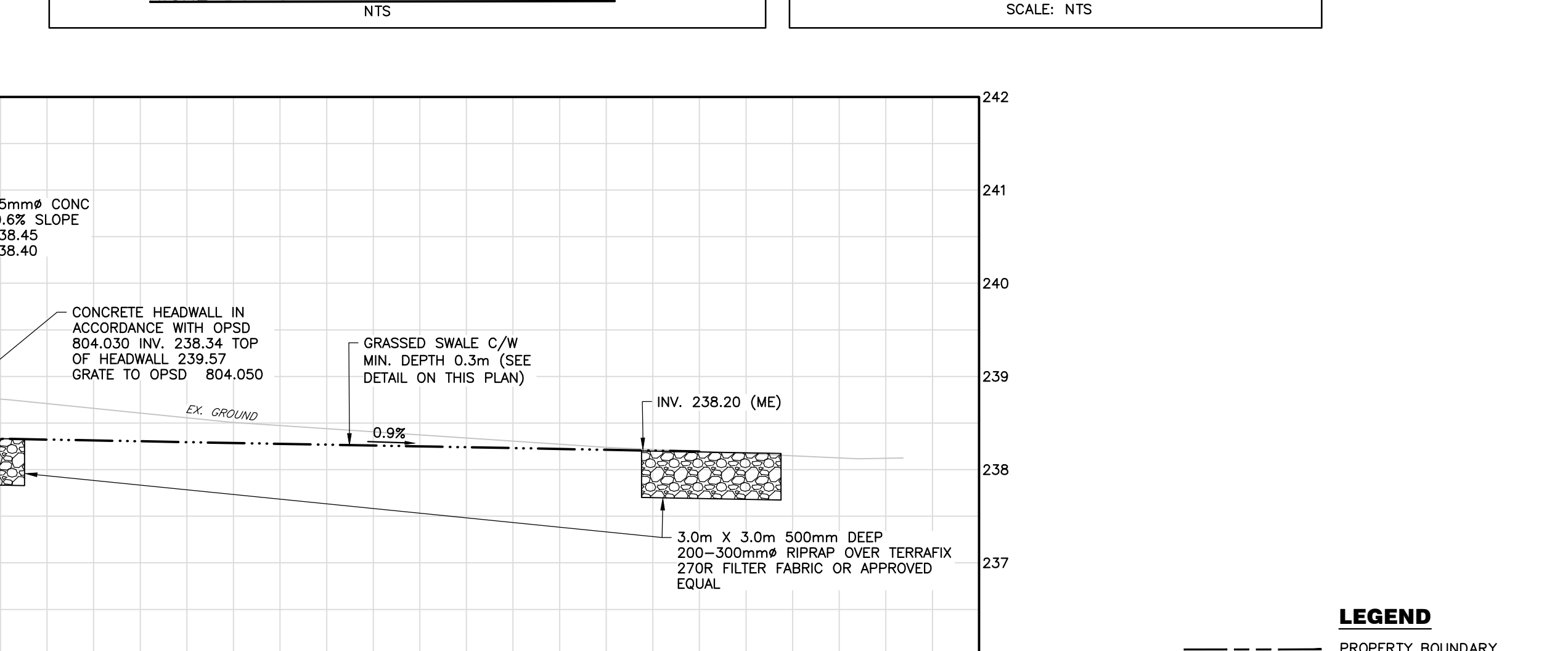
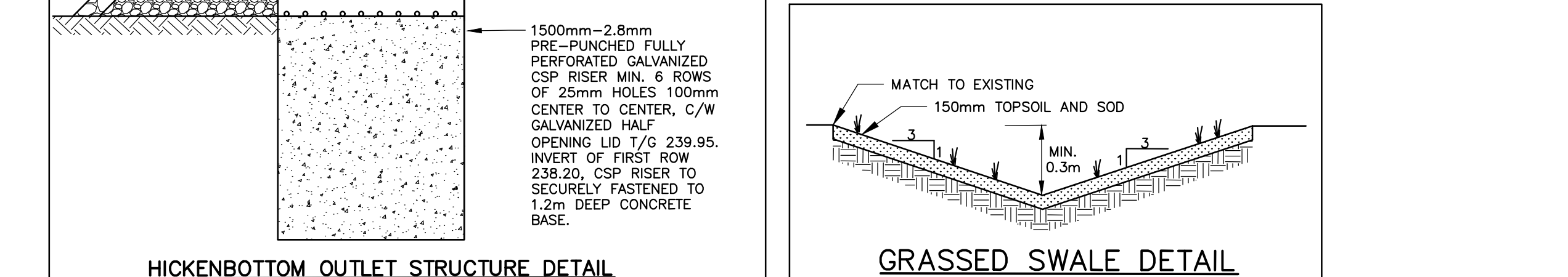
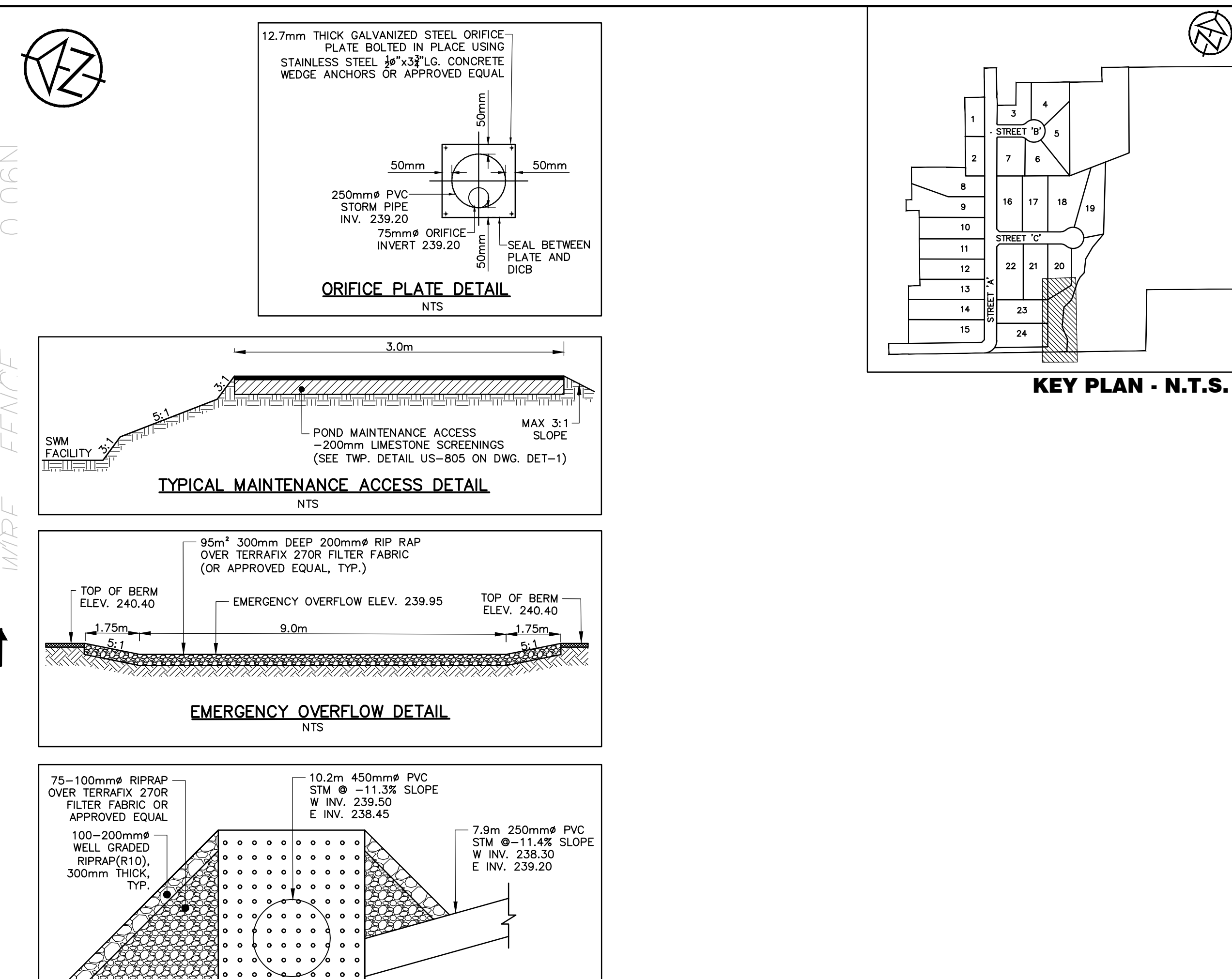


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DRAWN: HY	DATE: SEPT 2024	PP-6
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ZEPHYR ROAD

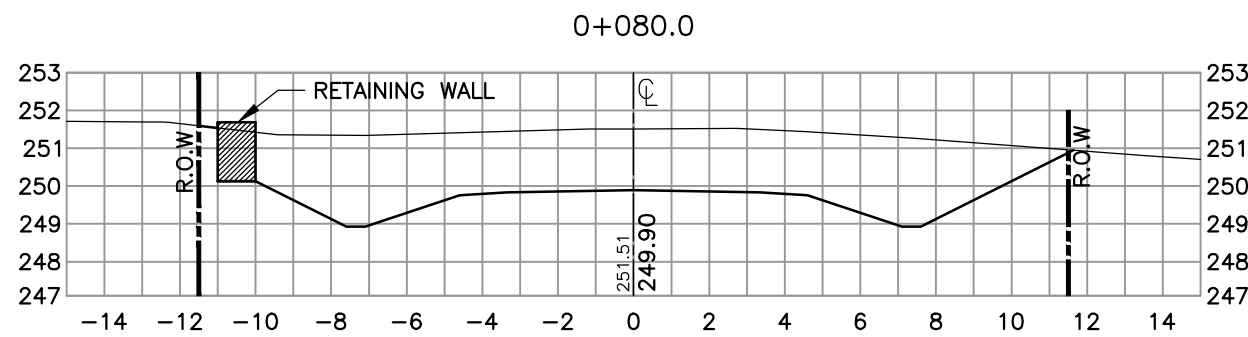
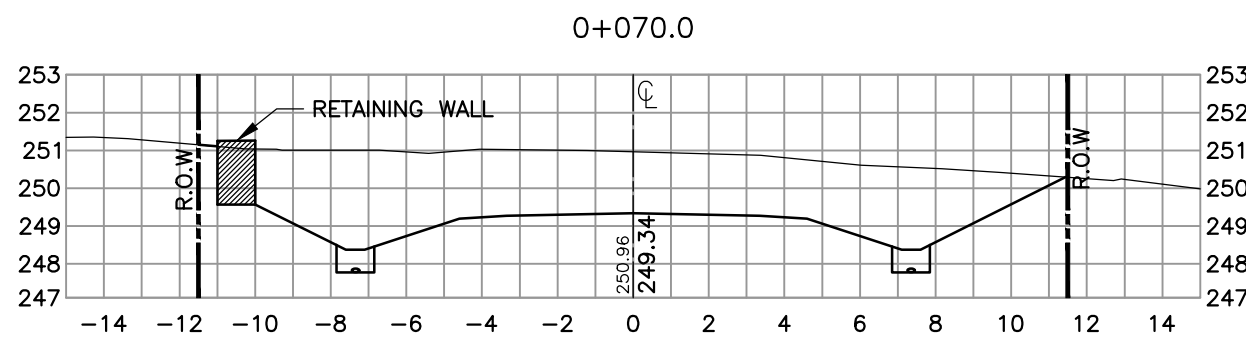
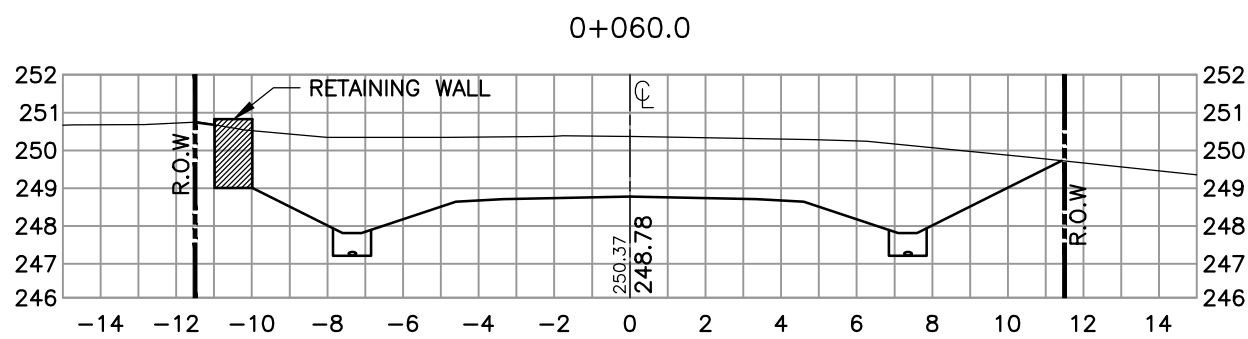
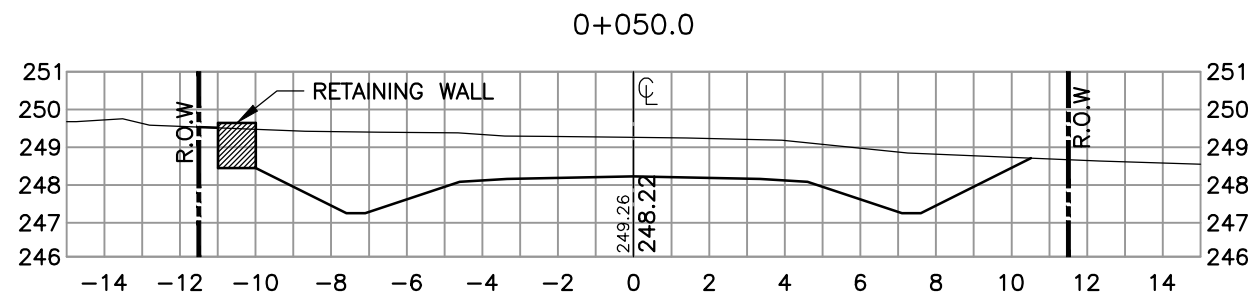
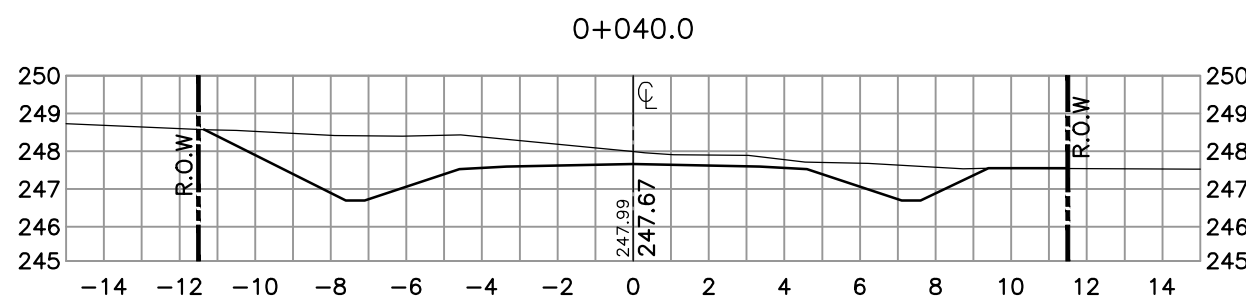
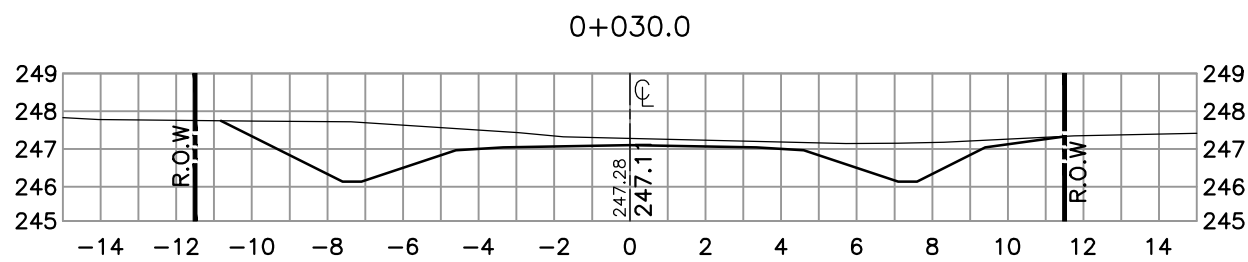
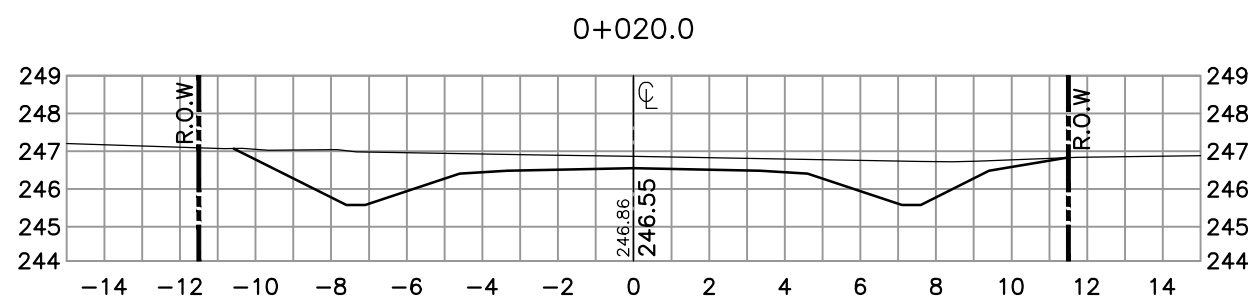
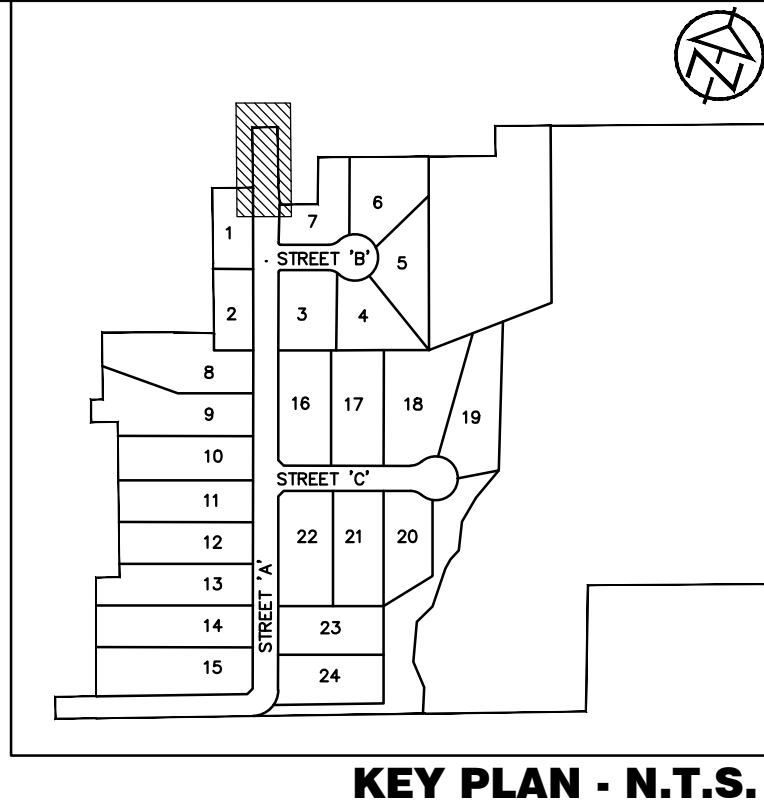


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		1.	FIRST SUBMISSION FOR APPROVAL	JUL, 2025					

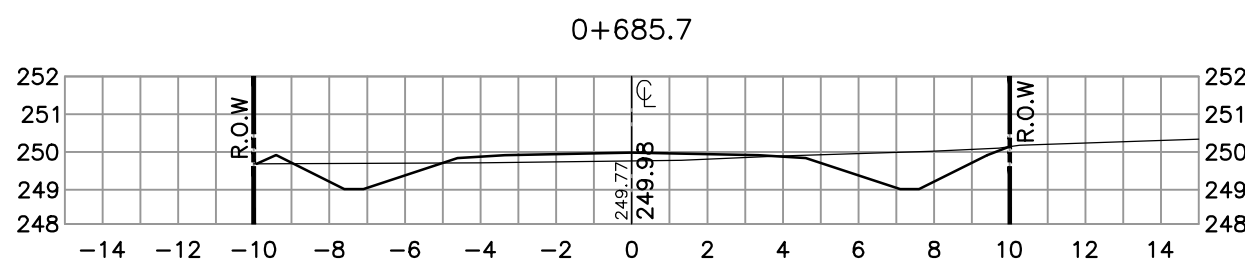
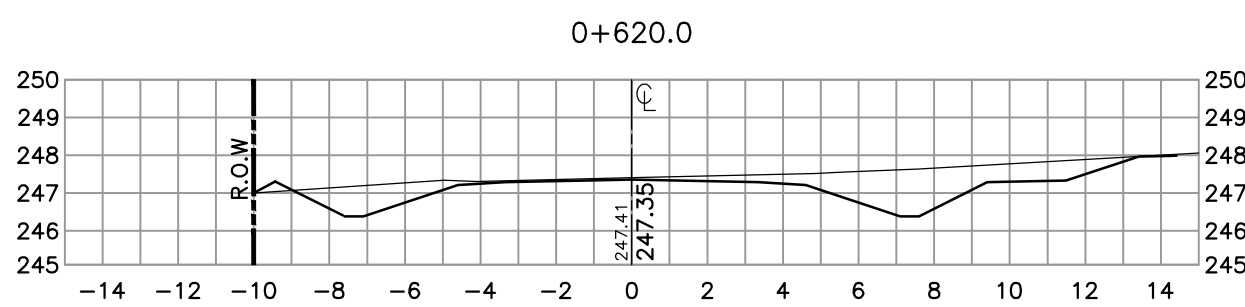
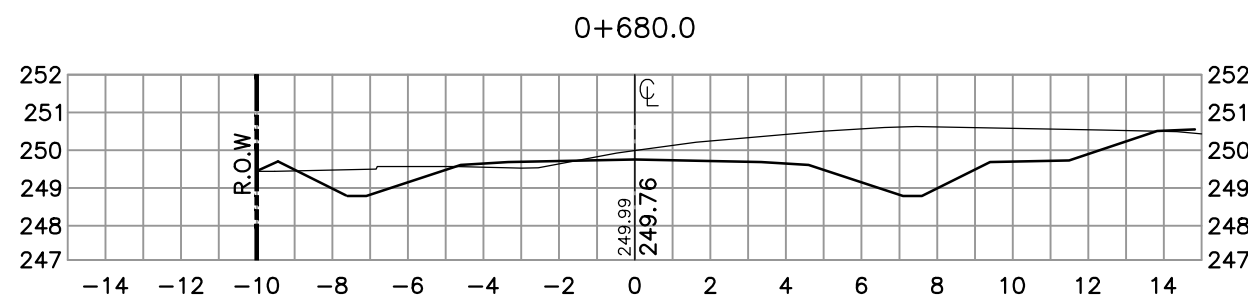
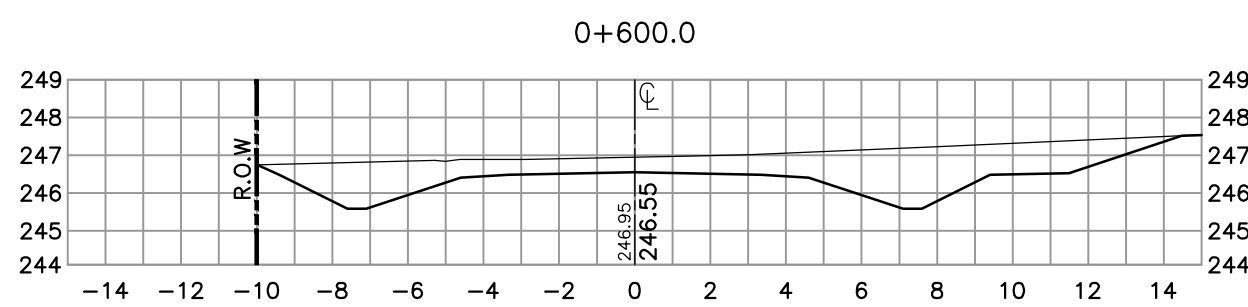
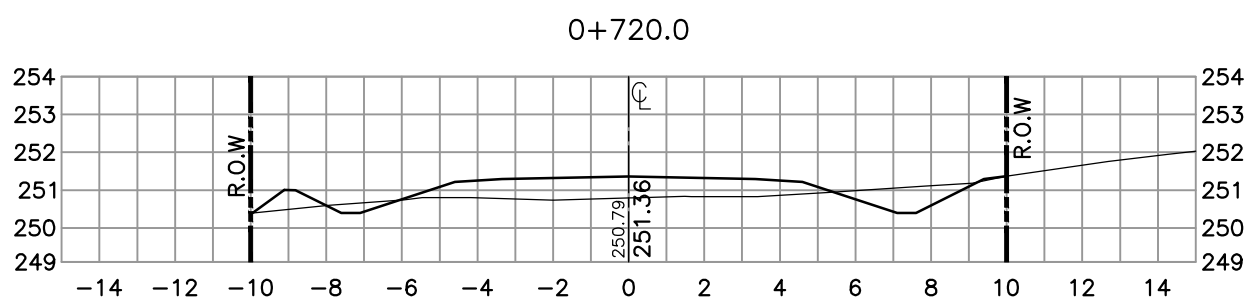
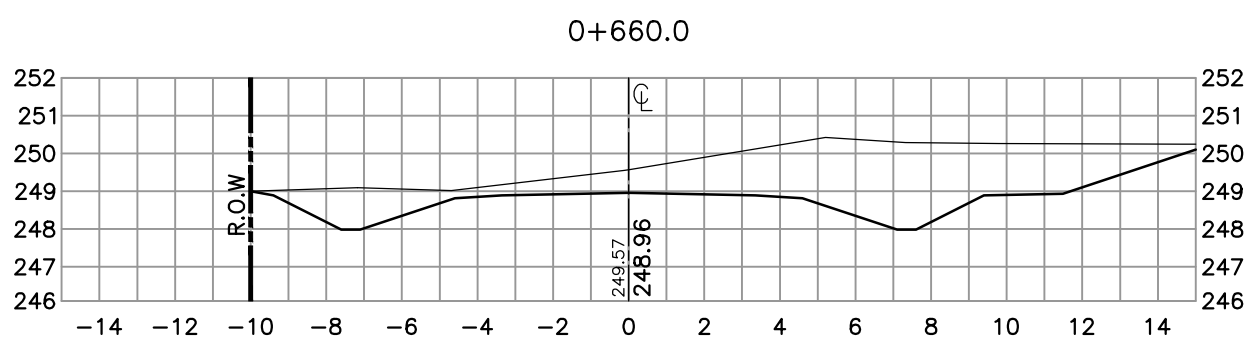
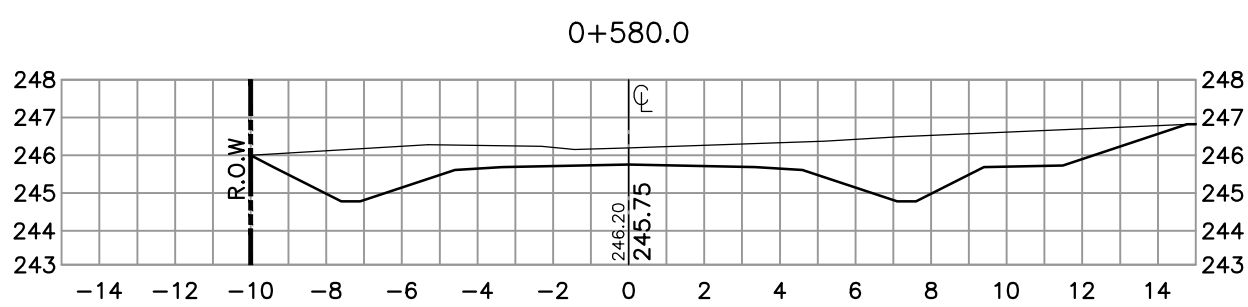
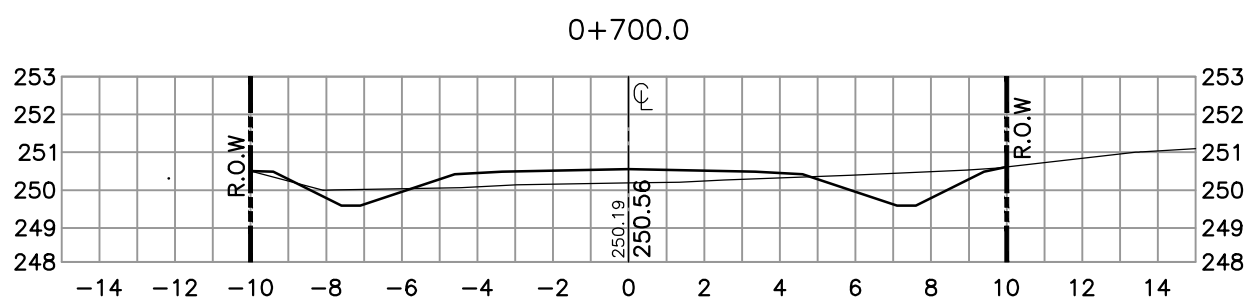
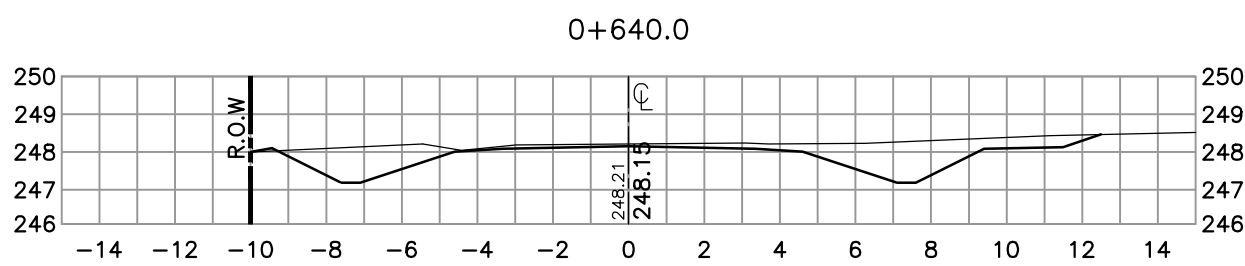
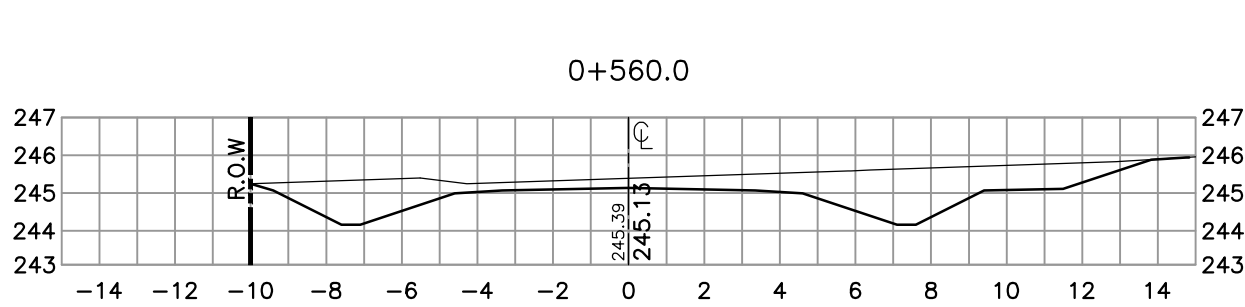
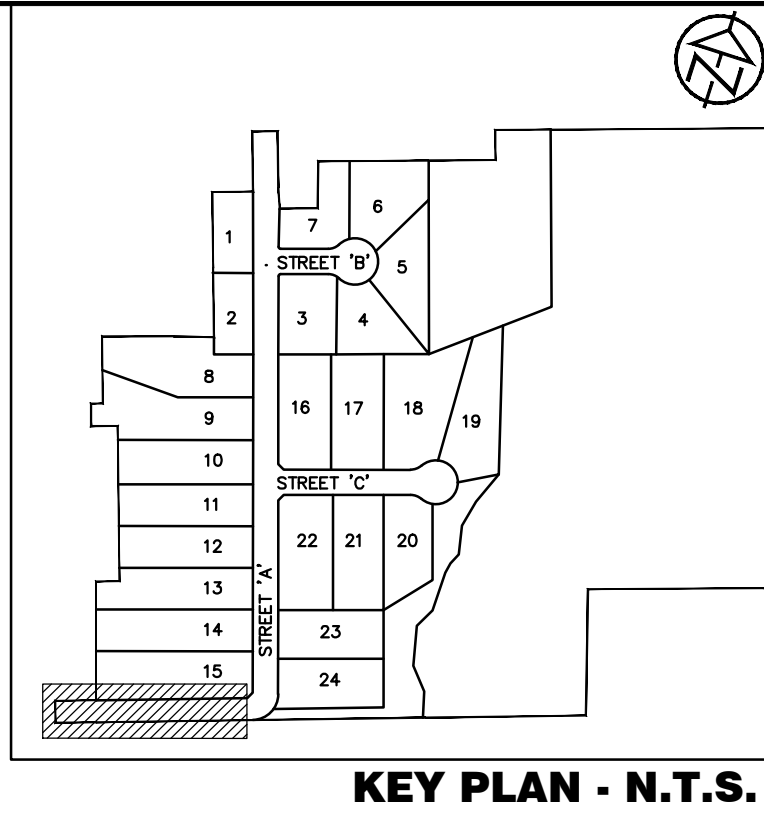


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		1.	FIRST SUBMISSION FOR APPROVAL	JUL, 2025	LICENSED PROFESSIONAL ENGINEER J.R. WSH 180123062 PROVINCE OF ONTARIO				

Drawing Name: 516655-SWM02.dwg, Plotted: Jul 16, 2025



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		1.	FIRST SUBMISSION FOR APPROVAL	JUL, 2025	LICENSED PROFESSIONAL ENGINEER J.R. KSH 180123062 July 14, 2025 PROVINCE OF ONTARIO			
						DESIGN: HY	FILE: 516655	DWG: XS-1
						DRAWN: HY	DATE: SEPT 2024	
						CHECK: JA	SCALE: 1:200	



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		1.	FIRST SUBMISSION FOR APPROVAL	JUL, 2025				
STREET 'A' ROAD CROSS SECTIONS AT WEST SITE ENTRANCE						DESIGN: HY	FILE: 516655	DWG:
						DRAWN: HY	DATE: SEPT 2024	XS-2
						CHECK: JA	SCALE: 1:200	

1. STANDARDS AND DRAWINGS

- A. THE NOTES ON THIS SHEET APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ON THE PLAN AND PROFILE DRAWINGS AND/OR SPECIFIC DETAIL DRAWINGS.
- B. THE STANDARDS OF THE TOWNSHIP OF UXBRIDGE, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS), THE ONTARIO PROVINCIAL STANDARDS DRAWINGS (OPSD) AND THE ELECTRICAL SAFETY AUTHORITY (ESA) CONSTITUTE PART OF THE PLANS OF THIS CONTRACT.
- C. ORDER OF PRECEDENCE OF STANDARDS IS FIRSTLY THE TOWNSHIP OF UXBRIDGE STANDARDS.
- D. THE STANDARD DRAWINGS INCLUDED WITH THESE PLANS ARE PROVIDED FOR CONVENIENCE ONLY AND ARE NOT TO BE CONSTRUED TO BE A COMPLETE SET FOR THE PURPOSE OF THE CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL RELEVANT STANDARD DRAWINGS AND SPECIFICATIONS AS REQUIRED FOR THIS CONTRACT.

2. MEASUREMENTS

- A. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE AND STRUCTURE DIAMETERS, WHICH ARE IN MILLIMETRES.
- B. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- C. THE CONTRACTOR IS REQUIRED TO CONFIRM EXISTING GRADES AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING WORK.

3. GENERAL

- A. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF AND FOR THE COST OF REPLACING BENCHMARKS AND SURVEY BARS.
- B. NATIVE MATERIAL SUITABLE FOR BACKFILL SHALL BE COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- C. GRANULAR MATERIAL USED FOR BACKFILL SHALL BE PLACED IN LAYERS 200mm IN DEPTH MAXIMUM AND COMPACTED TO 98% SPMDD.
- D. THE CONTRACTOR IS RESPONSIBLE FOR SILTATION AND EROSION CONTROL DURING CONSTRUCTION. SILTATION CONTROL TO BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MUST BE MAINTAINED BY THE CONTRACTOR UNTIL GROUND COVER IS ESTABLISHED.
- E. CLEARING AND GRUBBING OF ALL SCRUB, BUSHES AND TREES AS REQUIRED TO COMPLETE CONSTRUCTION AS PER OPSS 201.
- F. TOPSOIL TO BE STRIPPED AND TEMPORARILY STOCKPILED UNTIL REAPPLIED FOR SITE RESTORATION WORK.
- G. GRADING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS.MUNI 206.
- H. ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE TOWNSHIP.
- I. EXCESS OR UNSUITABLE MATERIALS ARE TO BE DISPOSED OF BY THE CONTRACTOR AT A LOCATION APPROVED BY THE ENGINEER AS PART OF THE WORK.
- J. DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS.MUNI 517 AND OPSS.MUNI 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION.
- K. ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL AREA.
- L. EXISTING SERVICES AND UTILITIES SHOWN ON THESE CONTRACT DRAWINGS ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR LOCATION AND PROTECTING ALL UTILITIES DURING CONSTRUCTION.
- M. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING INFORMATION REGARDING THE EXACT LOCATION OF BURIED UTILITIES. THIS SHALL INCLUDE EXCAVATION AND INSPECTION HOLES IF NECESSARY. THE CONTRACTOR MUST EXERCISE NECESSARY CARE IN CONSTRUCTION OPERATIONS INCLUDING HAND DIGGING IF NECESSARY TO SAFEGUARD UTILITIES FROM DAMAGE. THE CONTRACTOR SHALL ARRANGE FOR TEMPORARY SUPPORT OF UTILITY POLES AS MAY BE REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR IS LIABLE FOR ALL DAMAGE TO UTILITIES OCCURING WITHIN OR OUTSIDE THE CONTRACT LIMITS CAUSED BY THEIR OPERATIONS.
- N. TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL CONFORM TO CITY REQUIREMENTS AND THE MOST CURRENT ONTARIO CONSTRUCTION REGULATIONS INCLUDING REGULATION No. 213 UNDER OHS AND REFERENCE TO MTO TEMPORARY CONDITIONS MANUAL Book No. 7. TRAFFIC CONTROL PLANS TO BE PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- O. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER AND/OR CALCIUM CHLORIDE AS REQUIRED FOR COMPACTION AND/OR DUST CONTROL.
- P. STOP SIGN AND STREET SIGNS AND LOCATIONS TO TOWNSHIP OF DOURO-DUMMER STANDARDS.
- Q. STREET LIGHTS TO BE IN ACCORDANCE WITH TOWNSHIP OF DOURO DUMMER ROAD INFRASTRUCTURE GUIDELINES AND OPSD 2210.010.
- R. ACCESS TO TRANSFORMERS TO BE 3.0m WIDE WITH 150mm GRANULAR 'A'. CULVERTS AS SPECIFIED IN THE TABLE ON LOT GRADING DRAWINGS COMPLETE WITH END PROTECTION, SAME AS DRIVEWAY CULVERTS.

4. ROADS

- A. THE CONTRACTOR IS TO SUBMIT SAMPLES AND A GRADATION ANALYSIS OF THE PROPOSED GRANULAR MATERIALS FOR APPROVAL BY THE ENGINEER PRIOR TO PLACING.
- B. NATIVE SUBGRADE SHALL HAVE A CROSSFALL OF 3%, COMPACTED TO 98% OF SPMDD AND SHALL BE PROOF ROLLED IN THE PRESENCE OF A SOILS CONSULTANT. THE MATERIAL SHALL BE APPROVED BY A SOILS CONSULTANT.
- C. THE ROAD PAVEMENT STRUCTURE SHALL CONSIST OF THE FOLLOWING:
- 45mm HL-3 ASPHALT
 - 50mm HL-8 ASPHALT
 - 150mm GRANULAR 'A'
 - 300mm GRANULAR 'B'
- D. DRIVEWAY APRONS FROM EDGE OF ASPHALT TO THE PROPERTY LINE SHALL CONSIST OF THE FOLLOWING:
- 200mm OPSS GRANULAR 'A' OR OPSS 20mm DIAMETER CRUSHER-RUN LIMESTONE.
 - 60mm HL-3 ASPHALT.
- E. GRANULARS SHALL HAVE A CROSSFALL OF 3%, COMPACTED TO 100% SPMDD. THE MATERIAL SHALL BE APPROVED BY A SOILS CONSULTANT.
- F. GRANULAR 'A' AND GRANULAR 'B' TO BE IN ACCORDANCE WITH OPSS.MUNI 1010.
- G. ASPHALT SHALL HAVE A CROSSFALL OF 2%, COMPACTED TO 97% MAXIMUM BULK DENSITY MIX DESIGN AND THE MATERIAL SHALL BE APPROVED BY A SOILS CONSULTANT.
- H. ALL MIX DESIGNS AND SHALL BE SUBMITTED TO THE TOWNSHIP FOR REVIEW AND APPROVAL.
- I. JOINTS WITH EXISTING ASPHALT TO BE SAW CUT STRAIGHT AS DIRECTED BY THE ENGINEER PRIOR TO PLACING NEW ASPHALT.
- J. IF ASPHALT SURFACES SETTLE IN EXCESS OF 15mm OR DIFFERENTIALLY DURING THE MAINTENANCE PERIOD, THE ENGINEER SHALL ORDER THE AREA CUT OUT AND REPLACED AT NO EXTRA COST TO THE CONTRACT.
- K. MAINTENANCE ACCESS ROADS SHALL CONSIST OF THE FOLLOWING:
- 50mm LIMESTONE SCREENINGS
 - 150mm GRANULAR 'A'

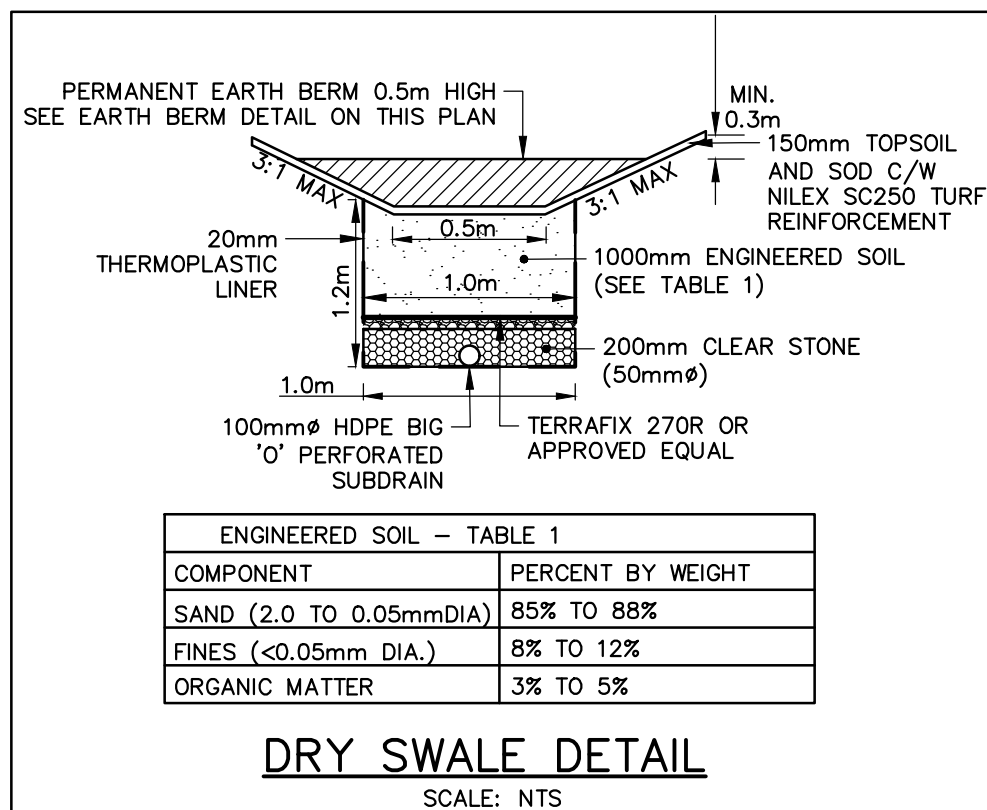
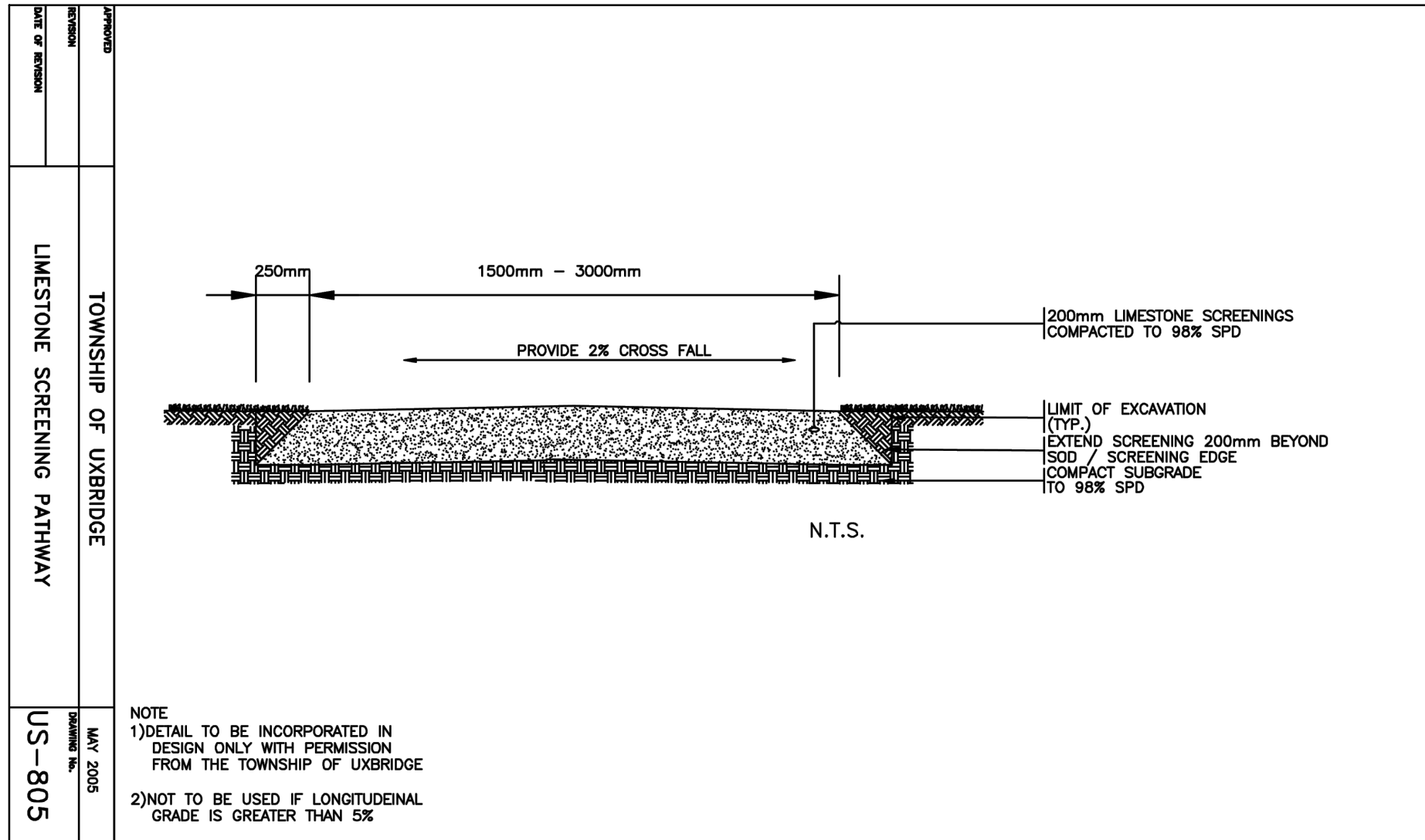
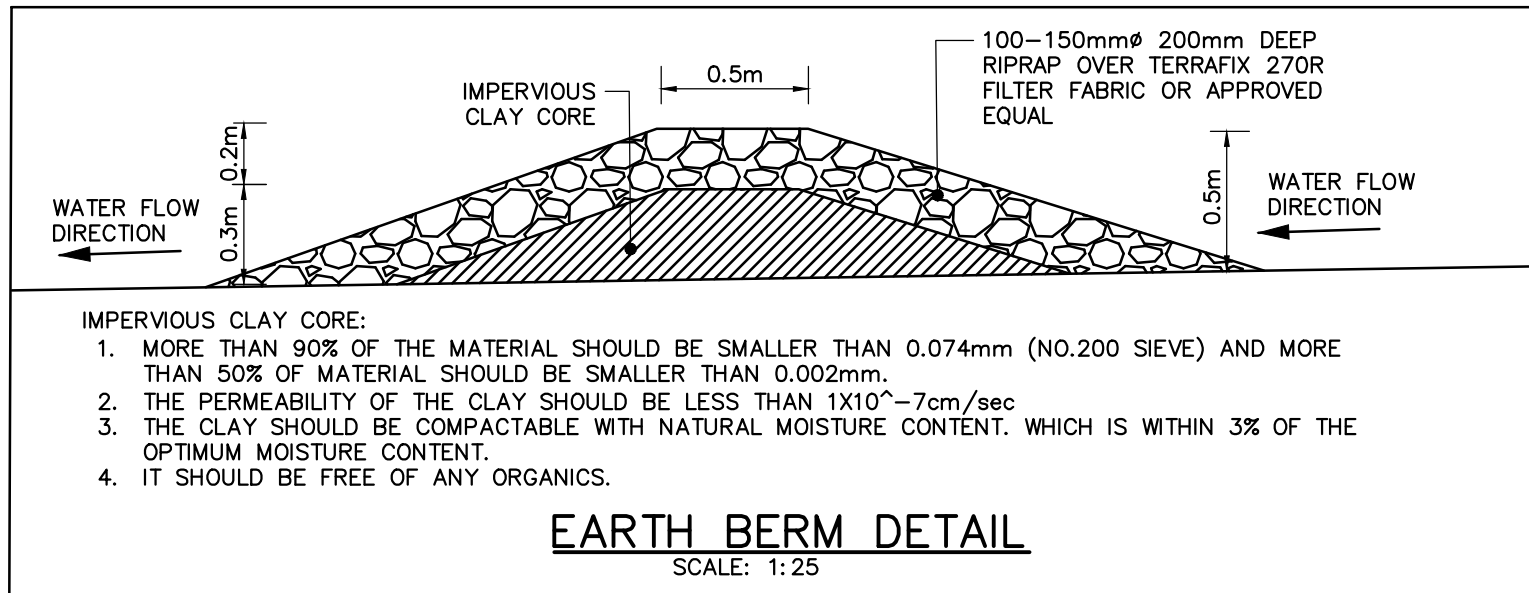
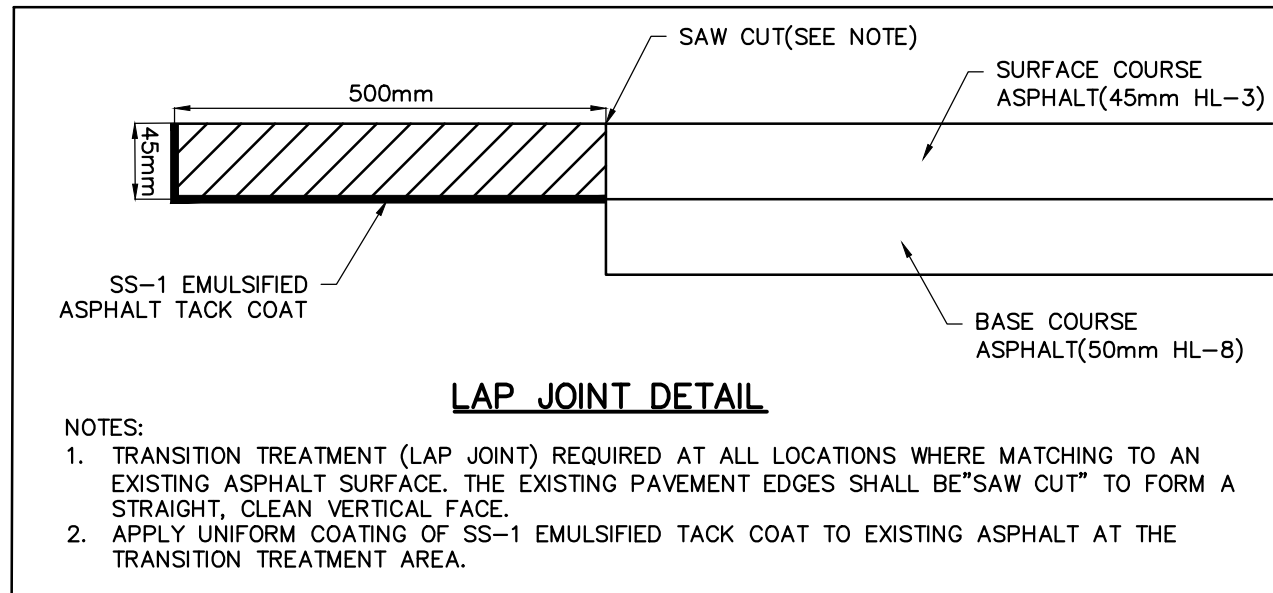
5. STORMWATER MANAGEMENT

- A. CULVERTS (AND STM PIPE WHERE SPECIFIED) TO BE SMOOTH WALL HDPE (BOSS 2000) CULVERTS WITH A MINIMUM STIFFNESS OF 320kPa UNLESS OTHERWISE SPECIFIED. CSP CULVERTS TO BE GALVANIZED AND MINIMUM 2.0mm IN THICKNESS.
- B. CULVERT DEFLECTIONS SHALL NOT EXCEED MANUFACTURER'S SPECIFICATIONS.
- C. CULVERT INSTALLATION SHALL BE BY OPEN CUT METHOD IN ACCORDANCE WITH OPSS.MUNI 421.
- D. FLEXIBLE PIPE EMBEDMENT AND BACKFILL TO BE IN ACCORDANCE WITH OPSD 802.010, 802.013 AND 802.014 AS APPLICABLE BASED UPON PIPE MATERIAL AND SOIL CONDITIONS. EMBEDMENT MATERIAL SHALL BE GRANULAR 'A' COMPACTED TO A DRY DENSITY OF AT LEAST 98% OF THE MATERIAL'S SPMDD.

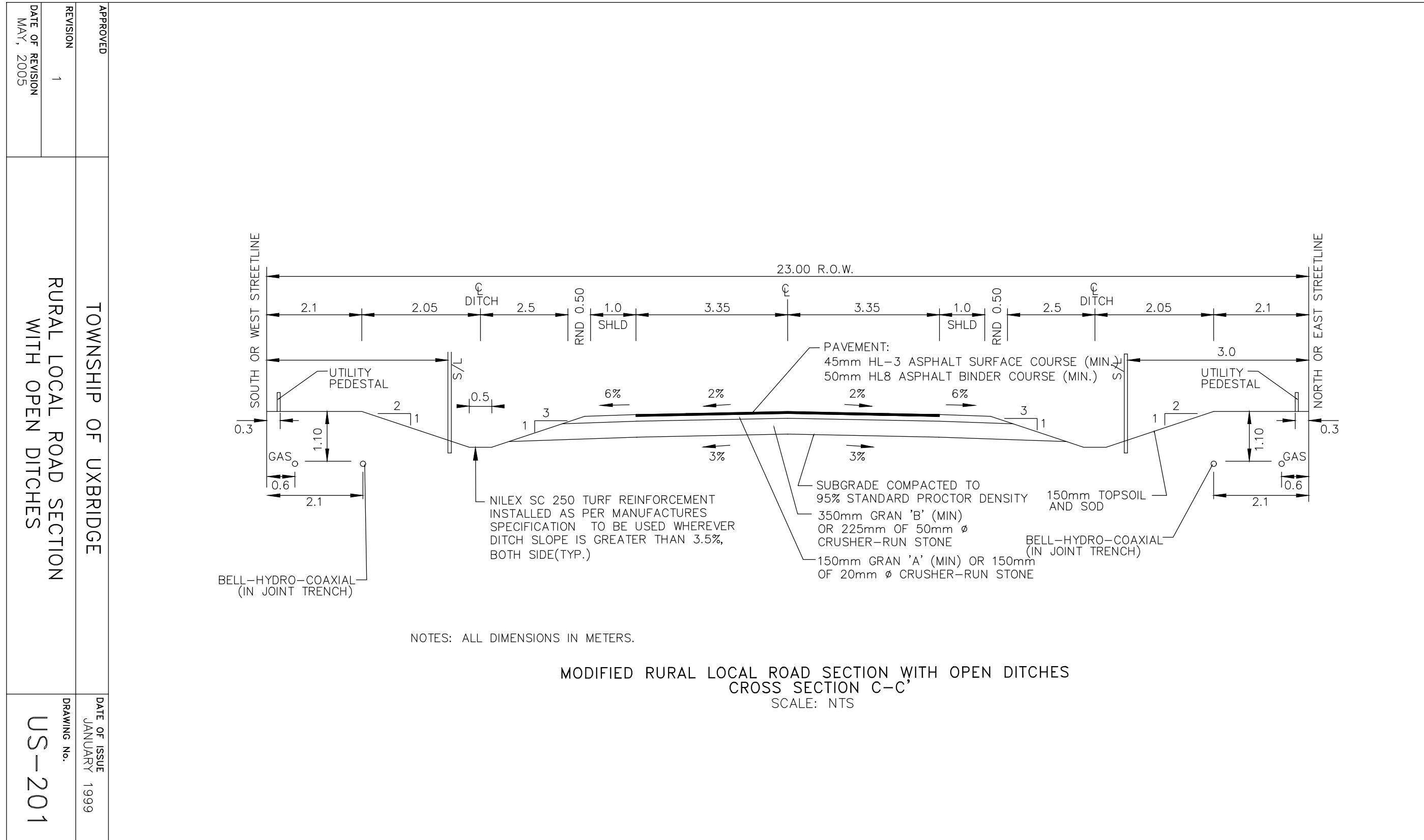
- E. MODIFIED PIPE BEDDING UNDER WET CONDITIONS SHALL CONSIST OF 10mm CLEAR STONE WRAPPED IN FILTER CLOTH (TERRAFIX 270R OR AN APPROVED EQUIVALENT).
- F. TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL.
- G. ALL RIP-RAP TO CONFORM WITH OPSS 511 AND OPSD 810.010-TYPE 'B'.
- H. ALL FILTER CLOTH TO BE TERRAFIX 270R OR AN APPROVED EQUIVALENT.
- I. DITCH OBSTRUCTIONS SHALL CONSIST OF SELECT NATIVE MATERIAL COMPACTED TO 100% OF THE MATERIAL'S SPMDD COVERED WITH 100mm TOPSOIL AND HYDROSEED.
- J. ALL TEMPORARY ROCK CHECK DAMS TO BE IN ACCORDANCE WITH OPSD 219.210 AND 219.211.
- K. PVC PIPE, WHERE SPECIFIED, TO BE PVC SDR 35 CERTIFIED TO C.S.A. STANDARDS B182.2 AND B182.4.
- L. PRECAST MAINTENANCE HOLES SHALL BE 1200 mm DIAMETER UNLESS OTHERWISE SPECIFIED AND SHALL BE IN ACCORDANCE WITH OPSD 701.010, 701.020, 701.030, 701.031. COVER SHALL BE IN ACCORDANCE WITH OPSD 401.060.
- M. MAINTENANCE HOLE STEPS TO BE SOLID AND IN ACCORDANCE WITH OPSD 405.020.
- N. DITCH INLET CATCHBASINS TO BE 600mm SQUARE PRECAST CONCRETE TO OPSD 705.030. GRATE TO OPSD 403.010. GRATE SLOPE AS SPECIFIED.

6. CONSTRUCTION DEWATERING

- A. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING THAT MAY BE REQUIRED TO PRODUCE A DRY AND STABLE TRENCH FOR CONSTRUCTION OF THE WORKS. WORK TO BE IN ACCORDANCE WITH ONTARIO REGULATION 63/16, OPSS 518. CONTRACTOR TO OBTAIN ALL NECESSARY APPROVALS AND REGISTRATIONS AND PERMITS AS REQUIRED.
- B. IF DEWATERING BETWEEN 50,000 & 400,000 LITERS PER DAY, THE CONTRACTOR SHALL:
- REGISTER THE PROJECT ON THE MECO'S ON-LINE ENVIRONMENTAL ACTIVITY AND SECTOR REGISTRY (EASR), IN ACCORDANCE WITH O. REG 63/16.
 - IF REQUEST BY THE ENGINEER, THE CONTRACTOR SHALL PREPARE ALL APPLICABLE DOCUMENTATION, INCLUDING, BUT NOT LIMITED TO A WATER TAKING PLAN AND A DISCHARGE PLAN, WHICH DEMONSTRATES THE WATER TAKING WILL NOT ADVERSELY IMPACT THE ENVIRONMENT. PLANS SHALL BE PREPARED BY A QUALIFIED PROFESSIONAL (P. ENG OR P. GEO).
 - THE CONTRACTOR SHALL PROVIDE PROOF OF ACCEPTED REGISTRATION ON THE EASR.
 - THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION OF THE APPROVED WATER TAKING PLAN, DISCHARGE PLAN AND ANY ADDITIONAL SPECIFICATIONS OR CONDITIONS INCLUDED BY THE EASR, INCLUDING MONITORING, TESTING, REPORTING AND CONTINGENCY PLANNING, INCLUDING SUBMISSION OF ALL RESULTS TO THE CONTRACT ADMINISTRATOR. INCLUDING SUPPLY OF STAND-BY POWER AND/OR A PUMPING SYSTEM IF REQUIRED.
 - CONTRACTOR SHALL MAINTAIN A RECORD OF ALL WATER TAKINGS. THE RECORD IS TO INCLUDE THE DATES AND DURATION OF DEWATERING AND THE DAILY AVERAGE TAKING RATE AND DAILY TOTAL VOLUME TAKEN. CALIBRATED FLOW MEASURING DEVICES SHALL BE USED TO MEASURE FLOW AND VOLUME, SPECIFICATIONS OF MEASURING DEVICES TO BE USED SHALL BE PROVIDED TO THE CONTRACT ADMINISTRATOR FOR APPROVAL. THE CONTRACTOR IS TO KEEP ALL REQUIRED RECORDS UP TO DATE AND AVAILABLE AT THE SUBJECT SITE OF THE WATER TAKING WHERE THEY CAN BE REVIEWED IMMEDIATELY BY A PROVINCIAL OFFICER UPON REQUEST. DEWATERING RECORDS SHALL BE PROVIDED TO THE CONTRACT ADMINISTRATOR IN A RUNNING TABLE ON A WEEKLY BASIS (OR AS OTHERWISE REQUESTED).
 - SUPPLY, INSTALLATION, MAINTENANCE AND REMOVAL OF SETTLING PONDS, SEDIMENT TRAPS/BASINS AND/OR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, AS REQUIRED TO SAFELY DISCHARGE FLOW - INCLUDING THE REMOVAL AND DISPOSAL OF EXCESS MATERIAL, AS REQUIRED.
- C. A MECO PERMIT TO TAKE WATER (PTTW) HAS NOT BEEN OBTAINED FOR THIS PROJECT. IF THE CONTRACTOR CANNOT MAINTAIN DRY TRENCH CONDITIONS WHILE TAKING LESS THAN 400,000 L/DAY, THEN A PTTW MUST BE OBTAINED FROM THE MINISTRY.
- D. ALL WATER DISCHARGED FROM THE DEWATERING OPERATION SHALL BE DISCHARGED TO AN APPROVED OUTLET AS DETERMINED BY THE CONTRACT ADMINISTRATOR. THE DISCHARGE LOCATIONS ARE TO BE CHANGED / RELOCATED AS REQUIRED TO SUIT CONSTRUCTION.
- E. NO WATER SHALL BE DISCHARGED WITHIN 30m OF A SURFACE WATER BODY OR STREAM.
- F. THERE IS TO BE NO DEWATERING IN OR NEAR A WETLAND.



ENGINEERED SOIL - TABLE 1	
COMPONENT	PERCENT BY WEIGHT
SAND (2.0 TO 0.05mm DIA.)	85% TO 88%
FINES (<0.05mm DIA.)	8% TO 12%
ORGANIC MATTER	3% TO 5%



APPROVED
REVISION
DATE OF REVISION
MAY 1, 2005

TOWNSHIP OF UXBRIDGE
RURAL LOCAL ROAD SECTION
WITH OPEN DITCHES

DRAWING No.
US-201

DATE OF ISSUE
JANUARY 1999

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	FIRST SUBMISSION FOR APPROVAL	JUL, 2025	



HIDDEN RIDGE SUBDIVISION TOWNSHIP OF UXBRIDGE		TATHAM ENGINEERING	
DESIGN: HY	FILE: 516655	DWG:	DET-1
DRAWN: HY	DATE: SEPT 2024		
CHECK: JA	SCALE:		

NOTES DETAILS