

D01 - GENERAL

D01-1 GENERAL INFORMATION

- THE INFORMATION PRESENTED ON THESE DRAWINGS HAS BEEN DESIGNED AND ANALYZED IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE AS AMENDED JANUARY 1, 2020. CONSTRUCTION IS TO BE PERFORMED IN ACCORDANCE WITH THIS AND ALL OTHER APPLICABLE CODES.
 - 1.1 CONCRETE STRUCTURE DESIGNED IN ACCORDANCE WITH CSA A23.3-14
 - 1.2 STEEL STRUCTURE DESIGNED IN ACCORDANCE WITH CSA S16-14
- CONTRACTOR IS TO VERIFY/COORDINATE ALL DIMENSIONS/PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, DRAWINGS PRIOR TO CONSTRUCTION. REPORT INCONSISTENCIES BEFORE PROCEEDING WITH WORK. ANY OPENINGS NOT INDICATED ON STRUCTURAL DRAWINGS ARE TO BE APPROVED BY STRUCTURAL ENGINEER IN WRITING PRIOR TO CONSTRUCTION.
- DEMOLITION DETAILS THAT AFFECT THE STRUCTURAL ELEMENTS HAVE BEEN REVIEWED IN ACCORDANCE WITH PARTS 2.4.10 AND 11 OF THE 2012 ONTARIO BUILDING CODE AS AMENDED JAN 01, 2020 WHERE REQUIRED. SUPPLEMENTARY TEMPORARY/REMEDIAL FRAMING HAS BEEN PROVIDED.
- SEISMIC RESTRAINT OF ARCH/MICHELLE ELEMENTS NOT NOTED ON THE DRAWINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER. RESTRAINT DETAILS ARE TO BE DEVELOPED IN ACCORDANCE WITH THE 2012 OBC. CONTRACTOR'S ENGINEER IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF SEISMIC RESTRAINTS AND SOLUTIONS AS REQUIRED BY SPECIFICATIONS INCLUDING THE VERIFICATION THAT THE EXISTING/NEW STRUCTURE IS CAPABLE OF SAFELY SUPPORTING THE IMPOSED LOADS IN ACCORDANCE WITH THE 2012 OBC. NO ELEMENTS MAY BE CONSTRUCTED WITHOUT WRITTEN CONFORMANCE OF THESE CONDITIONS BY CONTRACTOR'S ENGINEER.
- NO FOUNDATION ELEMENTS ARE TO BE CONSTRUCTED UNTIL WRITTEN APPROVAL OF THE BEARING SURFACES AND PRESSURES IS PROVIDED BY A GEOTECHNICAL ENGINEER THROUGH ON-SITE INVESTIGATION. FAILURE TO COMPLETE THIS WORK COULD RESULT IN THE REMOVAL/REINSTATEMENT OF ANY/ALL FOUNDATION ELEMENTS AT CONTRACTOR'S OWN COST.
- DRAWINGS SHOW COMPLETED STRUCTURE ONLY. CONTRACTOR TO PROVIDE PRE-ENGINEERED SHORING AS REQUIRED TO ACCOMMODATE THE CONTRACTOR'S CONSTRUCTION ACTIVITIES AND TO PREVENT DAMAGE TO ANY ADJACENT PROPERTY. ALL CONSTRUCTION ACTIVITIES TO BE LIMITED TO THE LIMITS OF THE CONSTRUCTION SITE AND ALL DAMAGE TO EXISTING PROPERTIES MUST BE REINSTATED.
- CONTRACTOR IS RESPONSIBLE FOR CO-ORDINATING & TIMING OF THE CONSTRUCTION WITH RESPECT TO THE VARIOUS TRADES.
- PROPRIETARY SYSTEMS ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- DO NOT SCALE THESE DRAWINGS.
- DETAILS OF CONSTRUCTION ARE SHOWN BASED ON INFORMATION AVAILABLE AT THE TIME OF PREPARING DESIGN DRAWINGS IF, DURING CONSTRUCTION, CONDITIONS ARE REVEALED THAT DIFFER FROM THE ASSUMED CONDITIONS, ADVISE THE CONSULTANT BEFORE PROCEEDING.
- VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS ON SITE PRIOR TO FABRICATION.

D01-2 DEMOLITION

- CONTRACTOR TO SCAN FOR ALL SERVICES AND CALL FOR LOCATES PRIOR TO DEMOLITION.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE DEMOLISHING EXISTING STRUCTURE AS TO NOT DAMAGE THOSE PORTIONS OF THE STRUCTURE THAT ARE TO REMAIN.
- CONTRACTOR SHALL MAKE GOOD, TO THE SATISFACTION OF THE CONSULTANT, ANY DAMAGE THAT OCCURS DUE TO THE DEMOLITION PHASE.
- ALL DEMOLISHED MATERIALS MUST BE DISPOSED OF OFF-SITE AT THE END OF EACH WORKING DAY.

D01-3 GRAVITY LOADS:

SLS/ULS VALUES:		SNOW LOAD FACTORS:	
SNOW, IS:	ULS=1.0 SLS=0.9	SNOW LOAD FACTORS:	
WIND, BY:	ULS=1.0 SLS=0.75	S = Is [S ₀ C ₁ C ₂ C ₃ C ₄ C ₅ C ₆ C ₇ C ₈ C ₉ C ₁₀ C ₁₁ C ₁₂ C ₁₃ C ₁₄ C ₁₅ C ₁₆ C ₁₇ C ₁₈ C ₁₉ C ₂₀ C ₂₁ C ₂₂ C ₂₃ C ₂₄ C ₂₅ C ₂₆ C ₂₇ C ₂₈ C ₂₉ C ₃₀ C ₃₁ C ₃₂ C ₃₃ C ₃₄ C ₃₅ C ₃₆ C ₃₇ C ₃₈ C ₃₉ C ₄₀ C ₄₁ C ₄₂ C ₄₃ C ₄₄ C ₄₅ C ₄₆ C ₄₇ C ₄₈ C ₄₉ C ₅₀ C ₅₁ C ₅₂ C ₅₃ C ₅₄ C ₅₅ C ₅₆ C ₅₇ C ₅₈ C ₅₉ C ₆₀ C ₆₁ C ₆₂ C ₆₃ C ₆₄ C ₆₅ C ₆₆ C ₆₇ C ₆₈ C ₆₉ C ₇₀ C ₇₁ C ₇₂ C ₇₃ C ₇₄ C ₇₅ C ₇₆ C ₇₇ C ₇₈ C ₇₉ C ₈₀ C ₈₁ C ₈₂ C ₈₃ C ₈₄ C ₈₅ C ₈₆ C ₈₇ C ₈₈ C ₈₉ C ₉₀ C ₉₁ C ₉₂ C ₉₃ C ₉₄ C ₉₅ C ₉₆ C ₉₇ C ₉₈ C ₉₉ C ₁₀₀ C ₁₀₁ C ₁₀₂ C ₁₀₃ C ₁₀₄ C ₁₀₅ C ₁₀₆ C ₁₀₇ C ₁₀₈ C ₁₀₉ C ₁₁₀ C ₁₁₁ C ₁₁₂ C ₁₁₃ C ₁₁₄ C ₁₁₅ C ₁₁₆ C ₁₁₇ C ₁₁₈ C ₁₁₉ C ₁₂₀ C ₁₂₁ C ₁₂₂ C ₁₂₃ C ₁₂₄ C ₁₂₅ C ₁₂₆ C ₁₂₇ C ₁₂₈ C ₁₂₉ C ₁₃₀ C ₁₃₁ C ₁₃₂ C ₁₃₃ C ₁₃₄ C ₁₃₅ C ₁₃₆ C ₁₃₇ C ₁₃₈ C ₁₃₉ C ₁₄₀ C ₁₄₁ C ₁₄₂ C ₁₄₃ C ₁₄₄ C ₁₄₅ C ₁₄₆ C ₁₄₇ C ₁₄₈ C ₁₄₉ C ₁₅₀ C ₁₅₁ C ₁₅₂ C ₁₅₃ C ₁₅₄ C ₁₅₅ C ₁₅₆ C ₁₅₇ C ₁₅₈ C ₁₅₉ C ₁₆₀ C ₁₆₁ C ₁₆₂ C ₁₆₃ C ₁₆₄ C ₁₆₅ C ₁₆₆ C ₁₆₇ C ₁₆₈ C ₁₆₉ C ₁₇₀ C ₁₇₁ C ₁₇₂ C ₁₇₃ C ₁₇₄ C ₁₇₅ C ₁₇₆ C ₁₇₇ C ₁₇₈ C 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D01-4 SEISMIC SYSTEM LOADING DATA

- SEISMIC FORCE RESISTING SYSTEM (SFRS):
 - SFRS SYSTEM & CONNECTIONS: (2012 OBC CLAUSE 4.1.8.9.4.1.8.10)
 - LATERAL LOAD RESISTING SYSTEM: CONVENTIONAL CONSTRUCTION - STEEL BRACED FRAMES
 - Ru = 1.5
 - Ru = 1.3
- SEISMIC IMPORTANCE FACTOR: (2012 OBC CLAUSE 4.1.8.9.4.1.8.11)
 - Ie = 1.0
- REFERENCE CITY: OTTAWA (KANATA)
- SITE CLASS: THE NOTED SITE CLASSIFICATION FOR SEISMIC SITE RESPONSE AND SHEAR STRENGTH PARAMETERS INDICATED ARE ASSUMED AND ARE TO BE CONFIRMED BY A GEOTECHNICAL ENGINEER LICENSED TO PRACTICE IN ONTARIO IN WRITING, PRIOR TO CONSTRUCTION.
 - A □ B □ C □ D □ E □ F
- RESPONSE SPECTRUM DATA:
 - 5% DAMPED SPECTRAL RESPONSE ACCELERATION VALUES FOR REFERENCE CITY: (2015 NBC APPENDIX C)

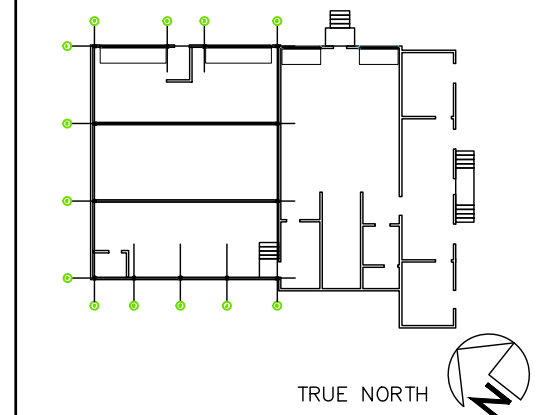
Sh(0.2)	= 0.401
Sh(0.3)	= 0.218
Sh(0.5)	= 0.110
Sh(1.0)	= 0.053
Sh(2.0)	= 0.028
Sh(5.0)	= 0.014
Sh(10.0)	= 0.003
 - PEAK GROUND ACCELERATION (2015 NBC APPENDIX C)
 - PGA = 0.257
 - DESIGN SPECTRAL RESPONSE ACCELERATION VALUES (SRRS): (2012 OBC CLAUSE 4.1.8.9.4.1.8.14)

CLASS C: (PGA=2.0%)	
S(0)	= 0.401
S(0.2)	= 0.218
S(0.5)	= 0.110
S(1.0)	= 0.053
S(2.0)	= 0.028
S(5.0)	= 0.014
S(10.0)	= 0.003
- SYSTEM RESTRICTION VALUE: IFR=0.20 = 0.50 + 0.35
 - YES
 - NO
- FUNDAMENTAL PERIOD: (2012 OBC CLAUSE 4.1.8.14.1.1.4)
 - T_{1,NS} = 0.17 sec
 - T_{1,EW} = 0.21 sec
- DESIGN FUNDAMENTAL PERIOD:
 - S_{1,NS} = 0.401
 - S_{1,EW} = 0.395
- STRUCTURAL SEPARATION:
 - THE ADJACENT STRUCTURES HAVE BEEN SEPARATED IN ACCORDANCE WITH 4.1.8.14(1) OF THE 2012 O.B.C.
 - N/A
- BUILDING WEIGHT FOR SEISMIC DESIGN: W = 251 kN
- BASE SHEARS:
 - V_{NS} = S_{1,NS} W (R_{NS}/R_{NS}) = 0.206 W
- STATIC MAXIMUM/MINIMUM VALUES:
 - V_{NS} = S_{1,NS} W (R_{NS}/R_{NS}) = 0.027 W
 - V_{NS} = S_{1,NS} W (R_{NS}/R_{NS}) = 0.137 W = 34.4 kN

D01-5 WIND LOADING:

WIND (PRIMARY STRUCTURAL)	NORTH-SOUTH (+/-)	WIND (INDIVIDUAL WALLS)
q _z 0.41 kPa (1 IN 50 YEARS)	V _{base} = 25 kN V _{base} = 102 kN/m	I _w = 1.0 (ULS) I _w = 0.75 (SLS) C _w = +1.0 TO -2.0
W = 1.0 (ULS) W = 0.75 (SLS) C _w = 1.3 (2.0 AT ENDS)	V _{base} = 10 kN V _{base} = 42 kN/m	C _w = 0.9 C _w = 0.45 TO +0.3 P = 1.34 kPa (ULS) P = 0.72 kPa (SLS)
DESIGN = 0.76 kPa C _w = 0.9		
SEE ROOF PLAN FOR WIND UPLIFT		
WIND LOADS: WIND UPLIFT (NET FACTORED)		
	R = 0.78 kPa (FIELD) S = 0.96 kPa (EDGE) C = 0.96 kPa (CORNERS) z = 1.7 m CANOPES = 0.74 kPa	

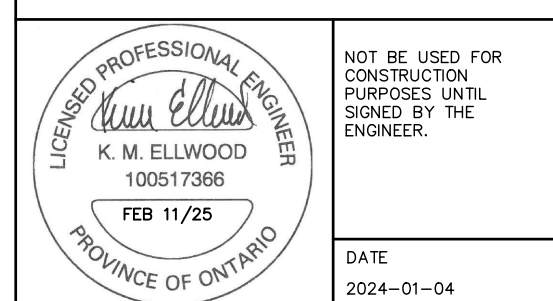
KEY PLAN: LEVEL 1



CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
DO NOT SCALE DRAWINGS.

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	JAN 04/24
2	RE-ISSUED FOR REVIEW	MAY 06/24
3	ISSUED FOR SITE PLAN CONTROL	JUNE 18/24
4	RE-ISSUED FOR SITE PLAN CONTROL	OCT 25/24
5	RESPONSE TO CITY COMMENTS SPC_B03	FEB 11/25



NOT BE USED FOR CONSTRUCTION PURPOSES UNTIL SIGNED BY THE ENGINEER.

DATE: 2024-01-04

PROJECT NORTH
DRAWN: W. ARSENAULT
CHECKED: A.R./K.E.
DATE PRINTED:

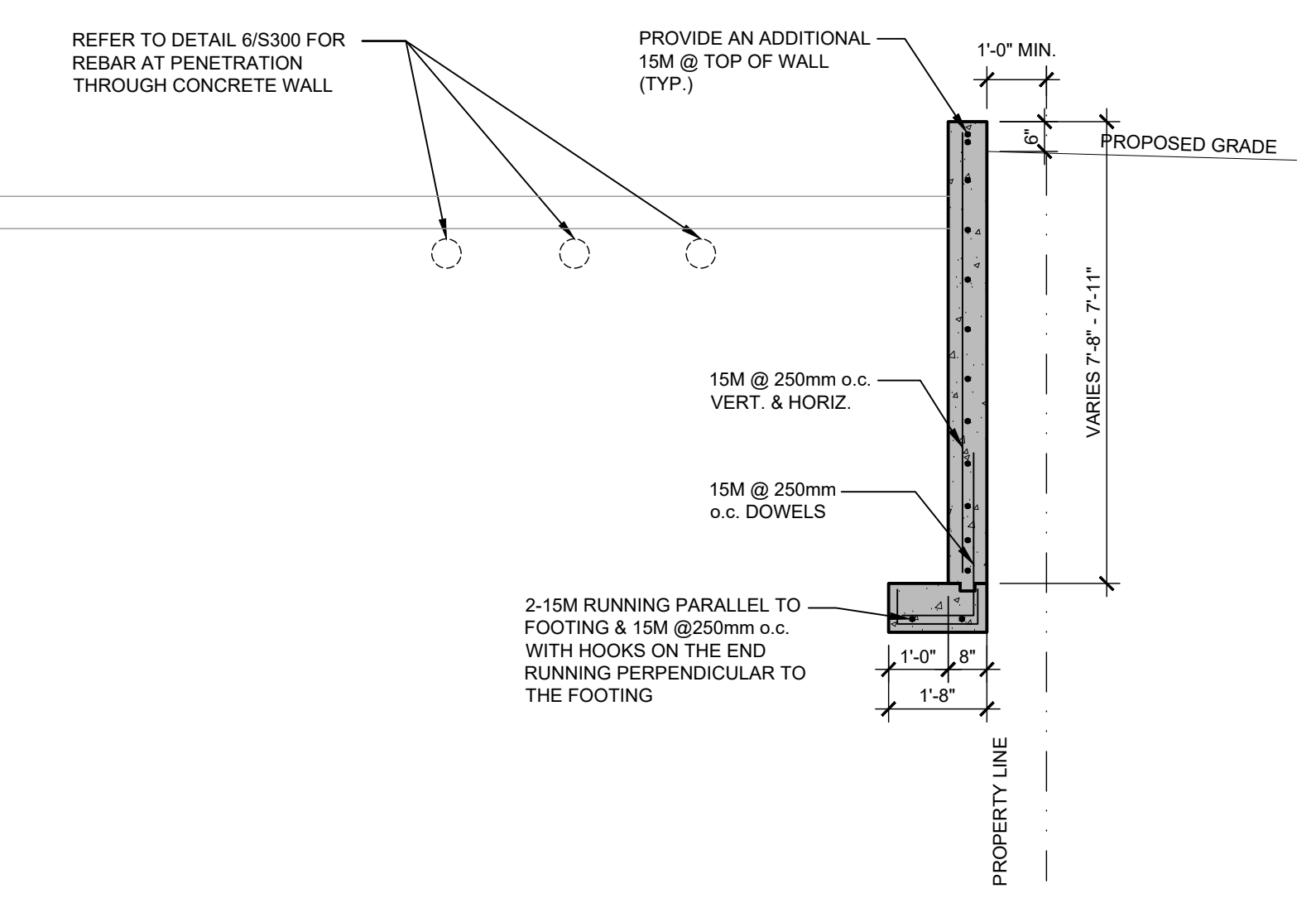


ADDRESS: 129 John Cornwall Dr., Corp., ON M2A 1J2

STORMWATER DETENTION RETAINING WALL DETAILS

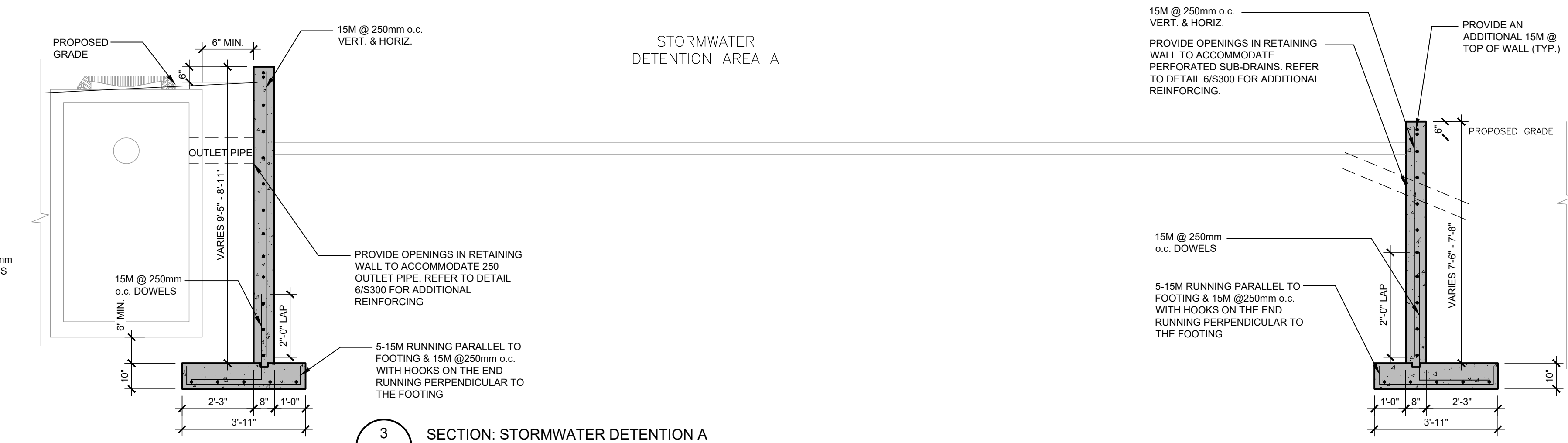
SCALE: AS SHOWN
DRAWING NO.: **S300**

STORMWATER DETENTION AREA B



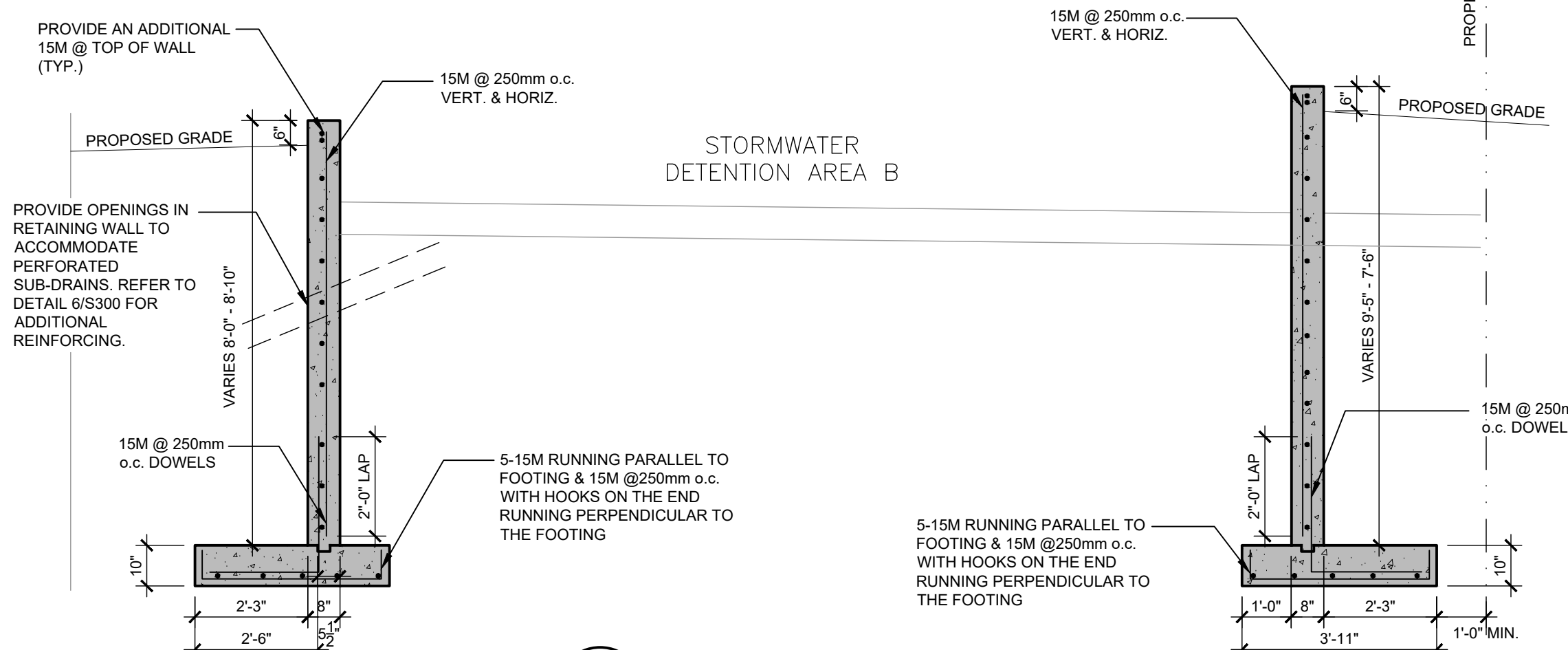
5 SECTION: STORMWATER DETENTION B
SCALE 3/8"=1'-0"

STORMWATER DETENTION AREA A



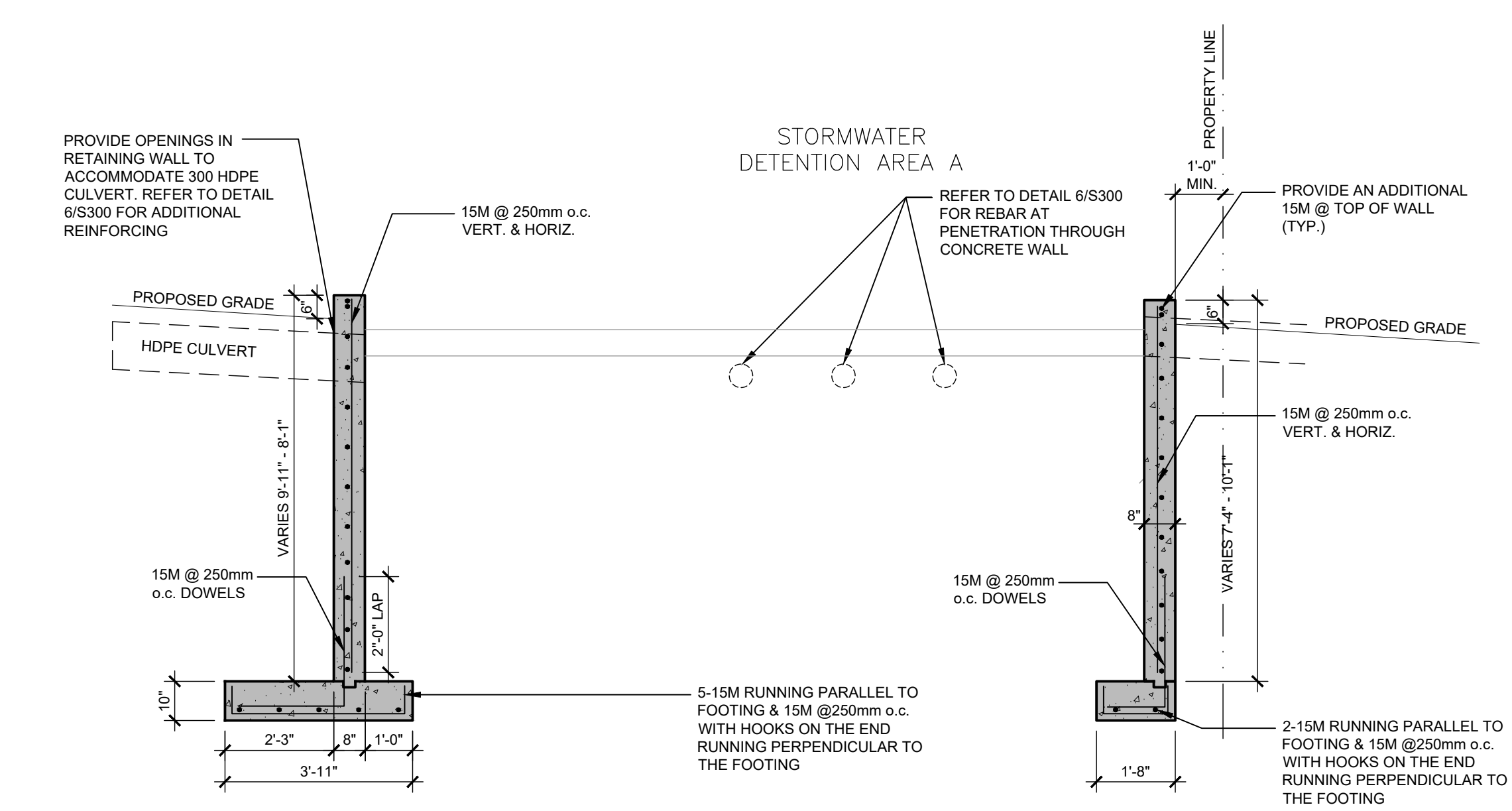
3 SECTION: STORMWATER DETENTION A
SCALE 3/8"=1'-0"

STORMWATER DETENTION AREA B



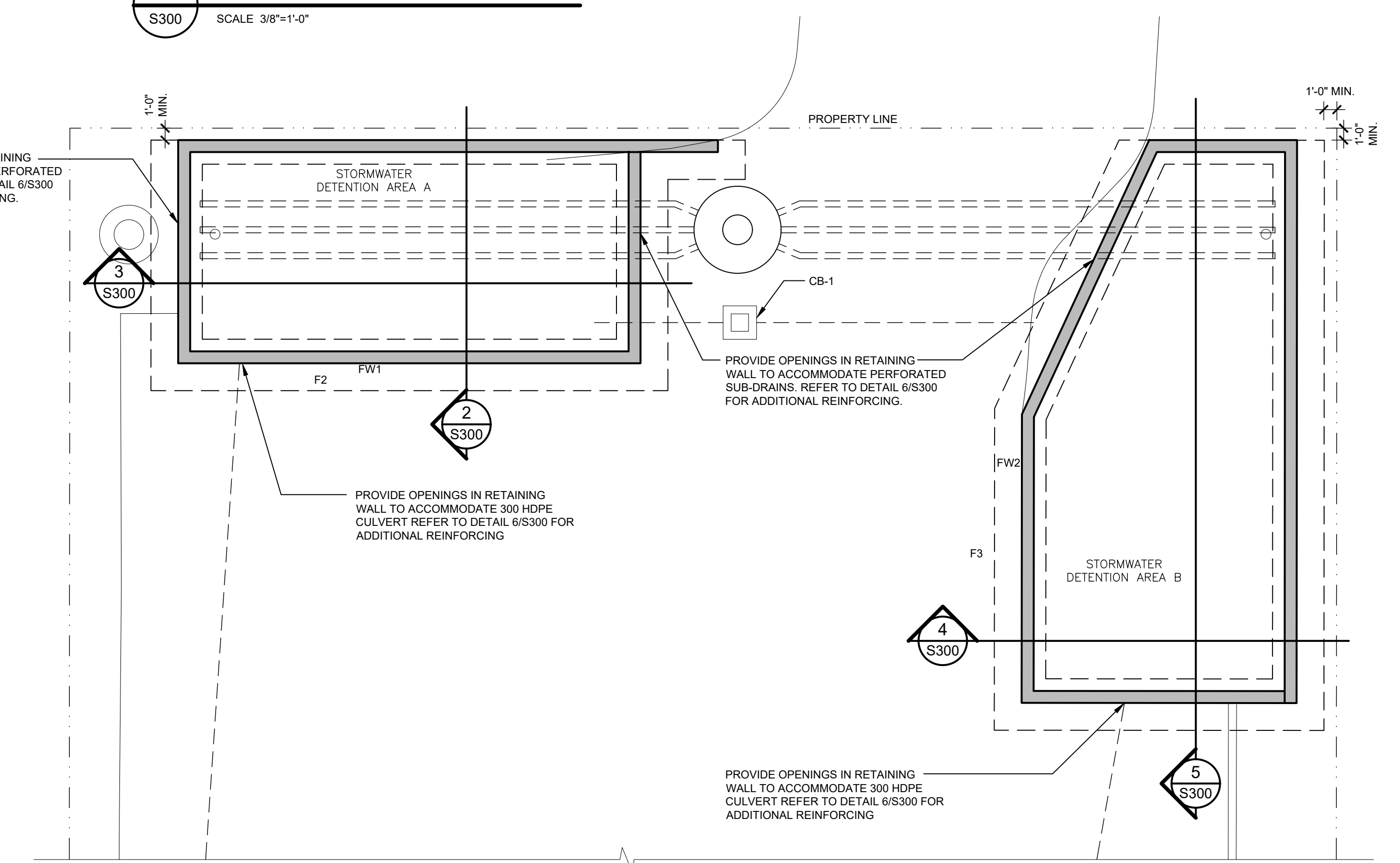
4 SECTION: STORMWATER DETENTION B
SCALE 3/8"=1'-0"

STORMWATER DETENTION AREA A



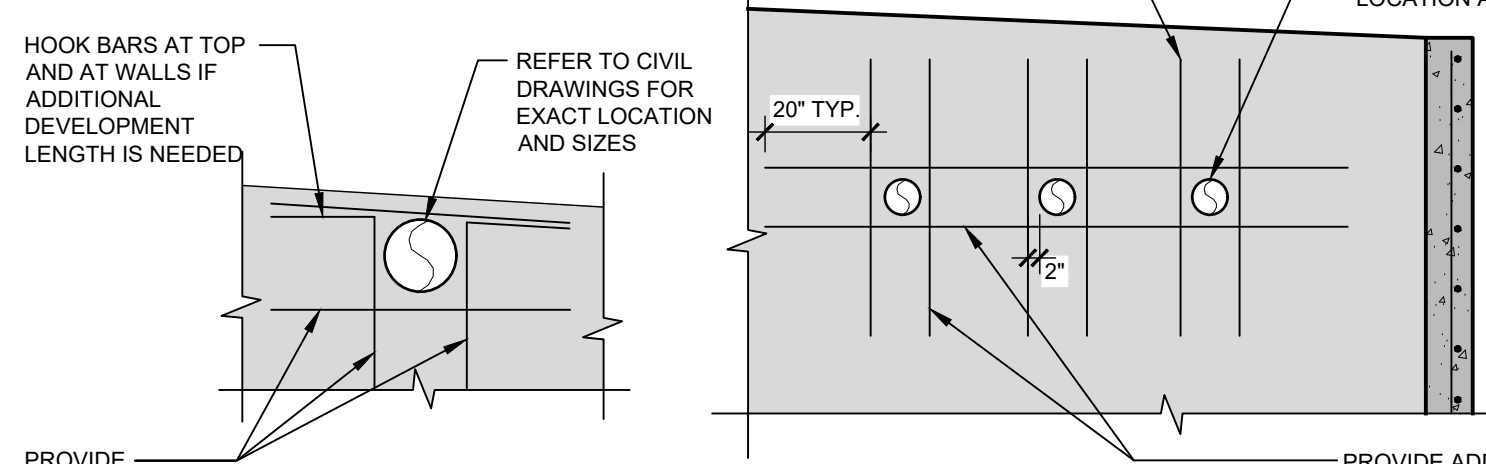
2 SECTION: STORMWATER DETENTION A
SCALE 3/8"=1'-0"

PLAN: STORMWATER DETENTION AREAS

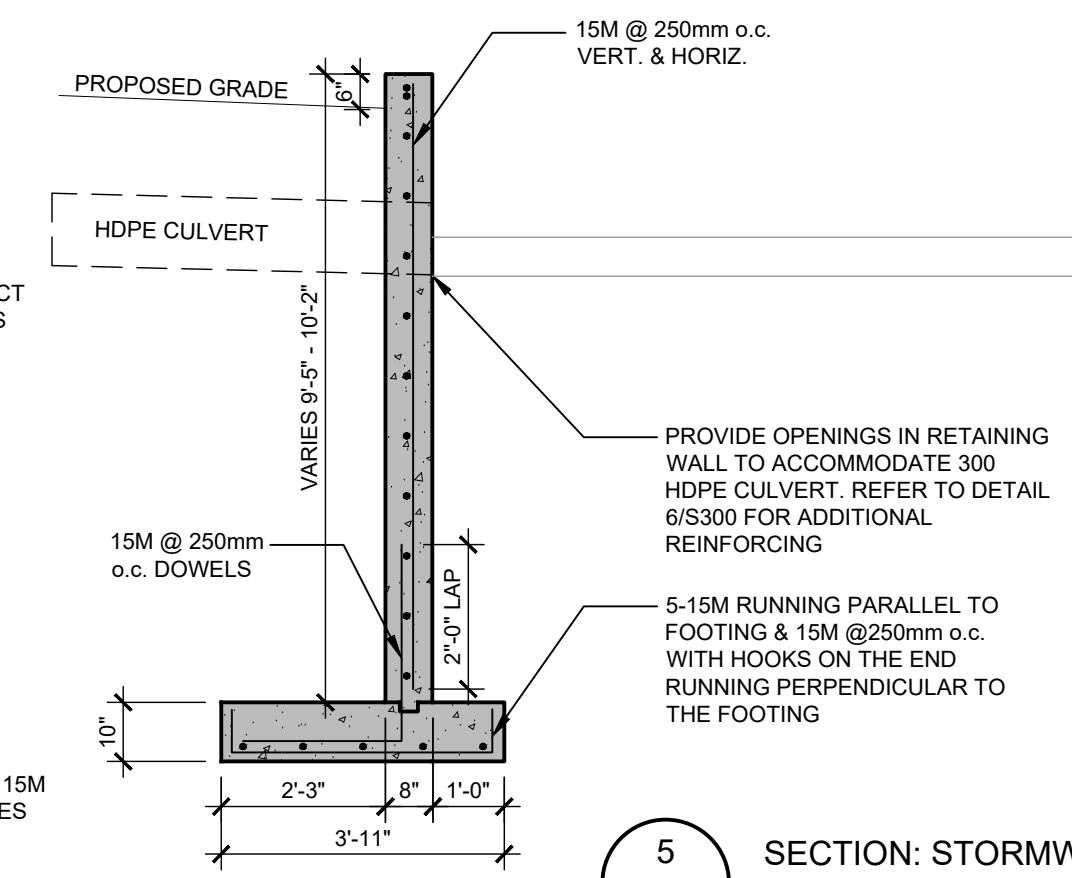


1 PLAN: STORMWATER DETENTION AREAS
SCALE 1/8"=1'-0"

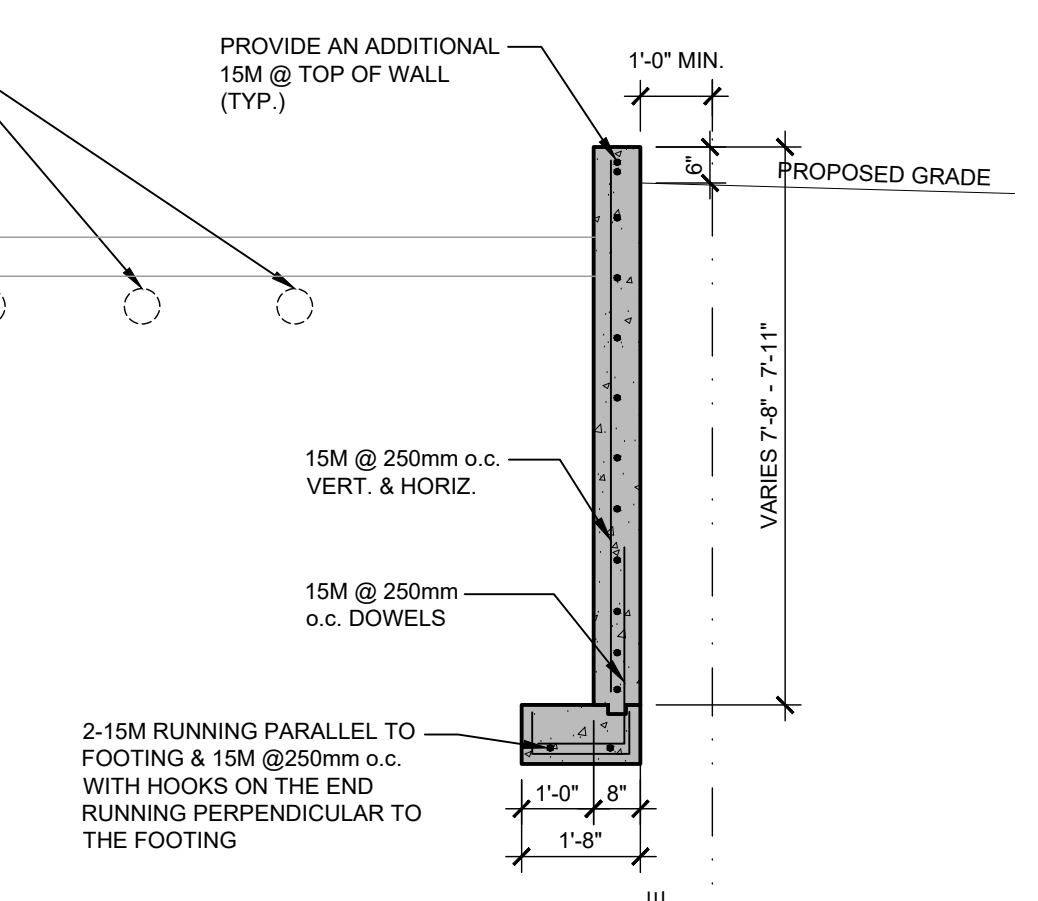
THIS DETAIL ONLY SHOWS THE REBAR THAT IS ADDITIONAL TO THE WALL REINFORCEMENT. REFER TO OTHER DETAILS FOR TYPICAL WALL REINFORCING



6 SECTION: SLEEVES THROUGH RETAINING WALL
SCALE 3/8"=1'-0"



5 SECTION: STORMWATER DETENTION B
SCALE 3/8"=1'-0"



5 SECTION: STORMWATER DETENTION B
SCALE 3/8"=1'-0"