

1	ISSUED FOR BUILDING PERMIT	OCT 6/17
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No.	REVISION	DATE

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4. DO NOT SCALE DRAWINGS.

PROJECT
BOYS & GIRLS CLUB OF OTTAWA
 1463 PRINCE OF WALES DR

ARCHITECT
HOBIN ARCHITECTURE INC

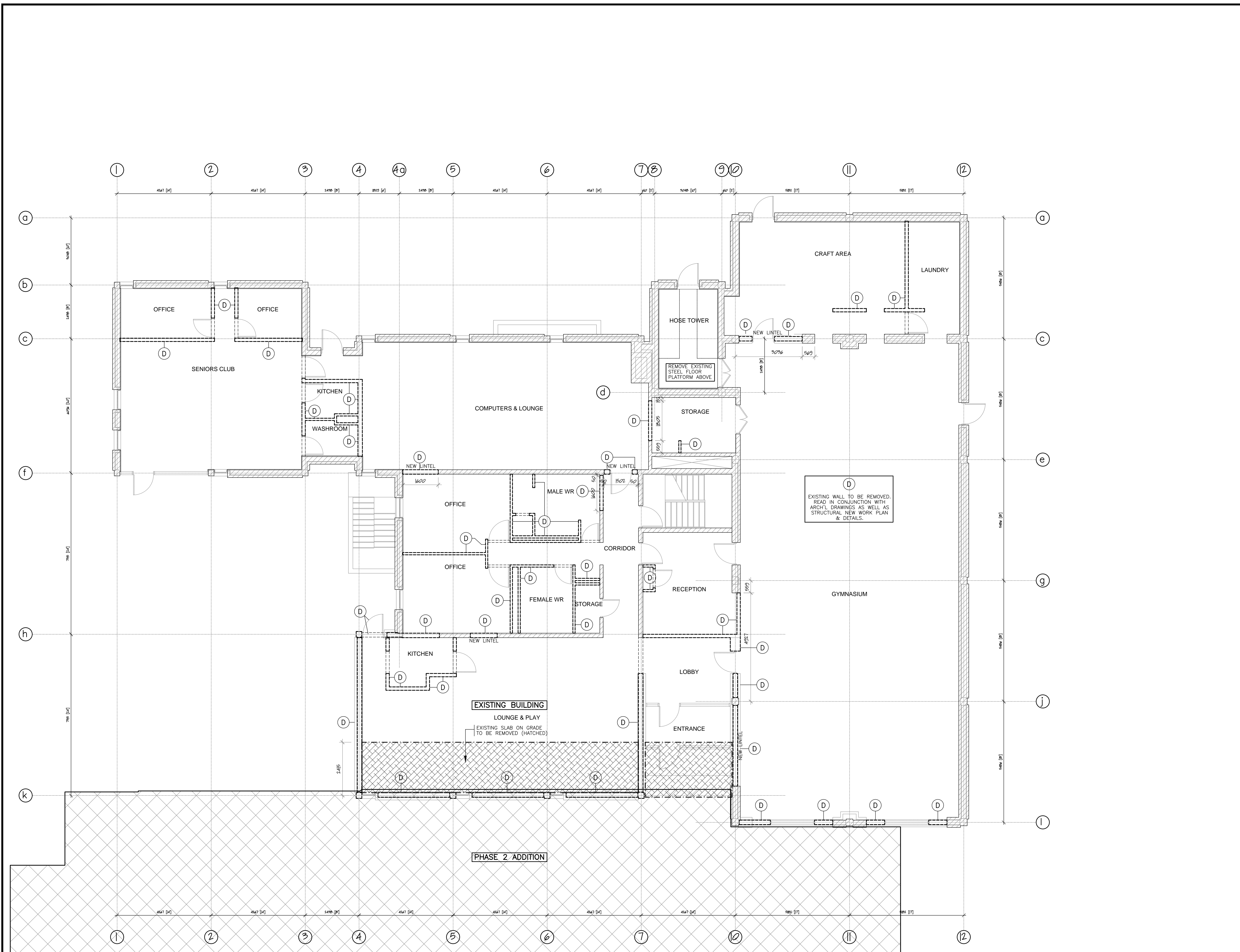
DRAWING
BASEMENT DEMO PLAN

CUNLIFFE
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 CONSULTING STRUCTURAL ENGINEERS
 102-1737 WOODWARD DR, OTTAWA, ONT. K2C 0P9
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ENGINEER'S SEAL SCALE: 1 : 75

10/06/2017
 R. I. CUNLIFFE
 ENGINEER
 PROVINCE OF ONTARIO

DRAWN RW	REVIEWED RIC
PROJECT NO. 17-007	SHEET NO. SD1
REVISION NO. ▲	



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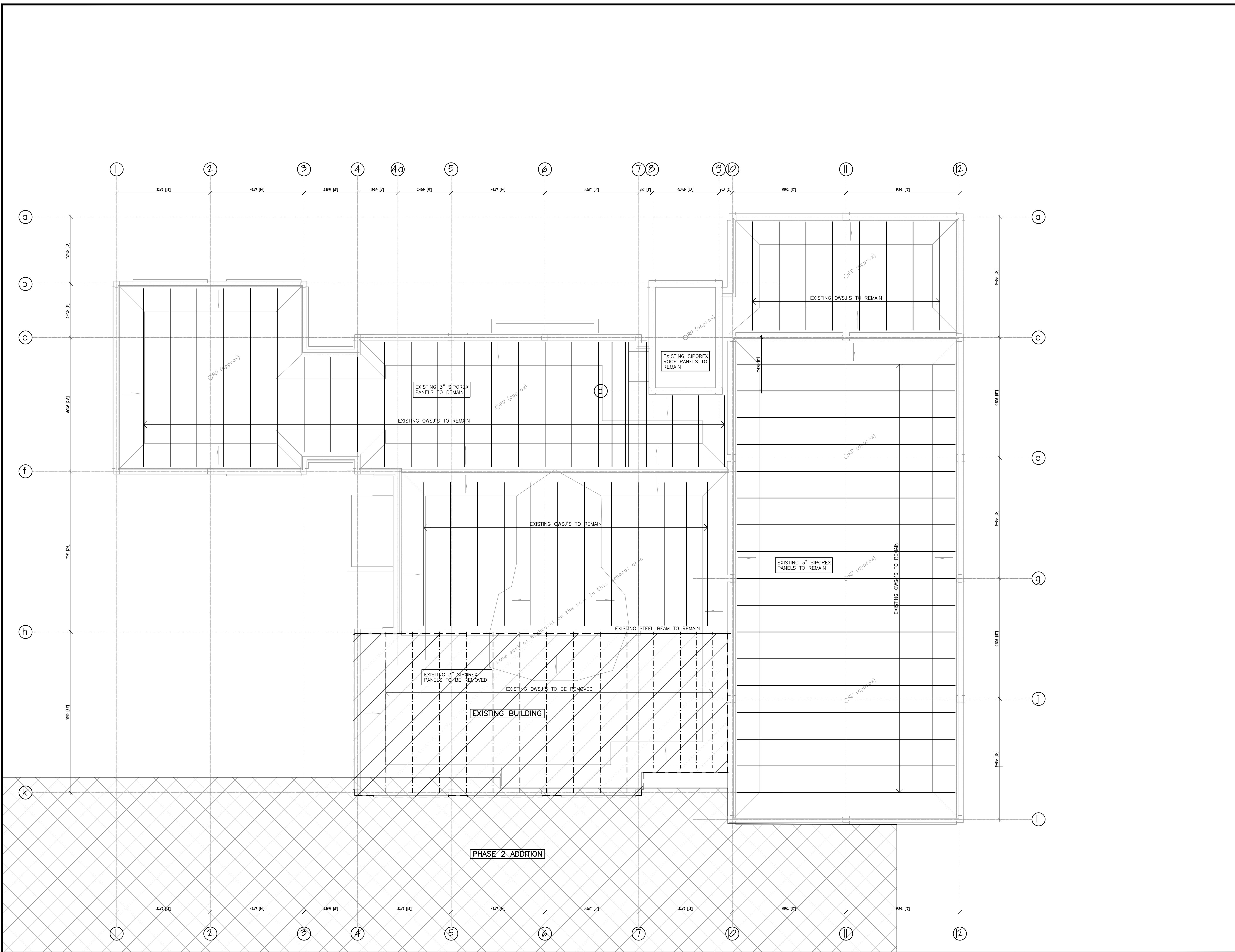
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ENGINEER'S SEAL
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	REVISION NO. 	



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DRAWING
ROOF DEMO PLAN

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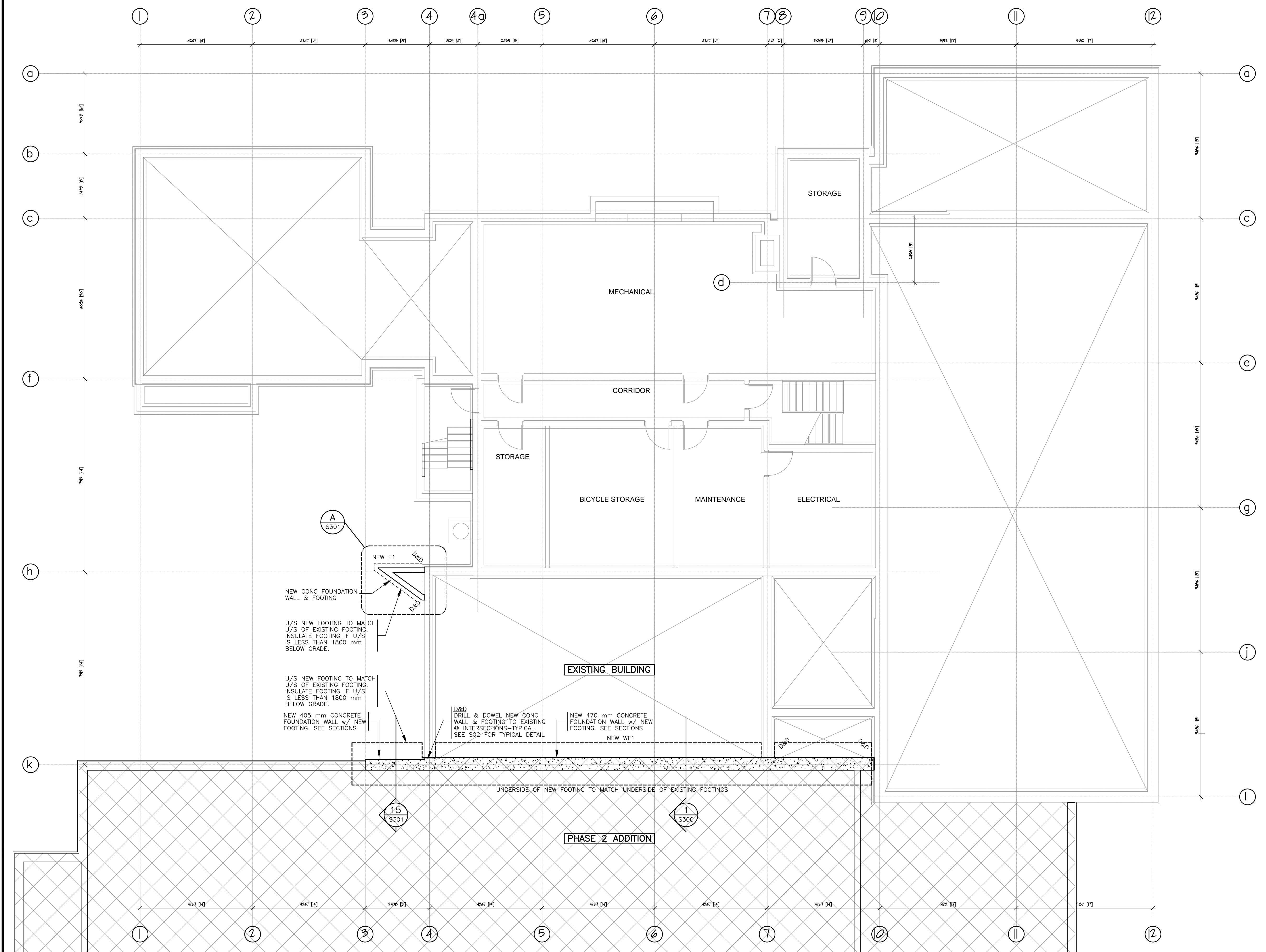
ENGINEER'S SEAL SCALE
 1 : 75

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	PROJECT NO. 17-007	SHEET NO. SD3
	REVISION NO. 	

FOOTING SCHEDULE		
MARK	SIZE	REINF'G
F1	250 DP	SEE PLAN DETAIL
WF1	1600 x 350 DP	6-15M BOTTOM CONT

CONCRETE COVER TO REINFORCING AS FOLLOWS:
 75 mm FROM BOTTOM OF FOOTING
 50 mm FROM SIDE OF FOOTINGS

CONCRETE COMPRESSIVE STRENGTH
 INTERIOR SLAB ON GRADE - 25 MPa TYPE N
 INTERIOR FOUNDATION WALLS - 25 MPa TYPE N
 EXTERIOR SLAB ON GRADE - 35 MPa CLASS C1
 PERIMETER FOUNDATION WALLS - 30 MPa TYPE F1
 FOOTINGS - 25 MPa TYPE N
 INTERIOR PIERS - 25 MPa TYPE N
 EXTERIOR PIERS WALLS - 35 MPa CLASS C1



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PROFESSIONAL ENGINEER
 10/06/2017
 R. I. CUNLIFFE
 Prince of Wales

DRAWN
 RW

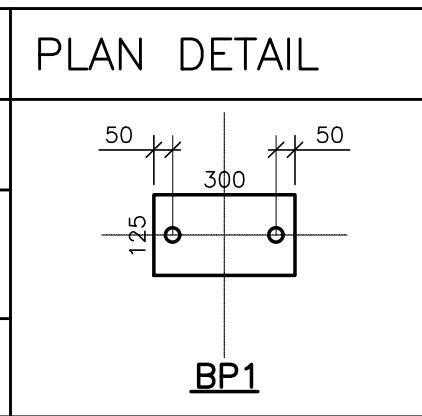
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PROJECT NO.
 17-007

SHEET NO.
 SM1

REVISION NO.
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BASEPLATE SCHEDULE			
MARK	SIZE	ANCHORS	WASHERS
BP1	300 x 125 x 16 PL GALV'D	2-16 # HILTI HAS HIT HY200 ADHESIVE ANCS STAINLESS STEEL 200 mm EMBEDMENT	N/A



1. PROVIDE 25 mm NON SHRINK GROUT OR DRYPACK BELOW BASEPLATES EXTENDING 25 mm BEYOND PERIMETER OF PLATE AND FOR FULL AREA BELOW PLATE (NOT APPLICABLE TO CAST-IN PLATES)
2. PROVIDE 50 mm ANCHOR BOLT PROJECTION ABOVE PLATE.
3. ALL ANCHOR BOLTS TO BE ASTM A325
4. ALL BASE PLATES TO BE GRADE G40.21350W
5. ALL COLUMNS TO BE CENTRED ON BASEPLATES U/N
6. USE STEEL TEMPLATES AND PRECISE SURVEYING TECHNIQUES TO ACCURATELY LOCATE BASE PLATE & ANCHOR BOLTS.

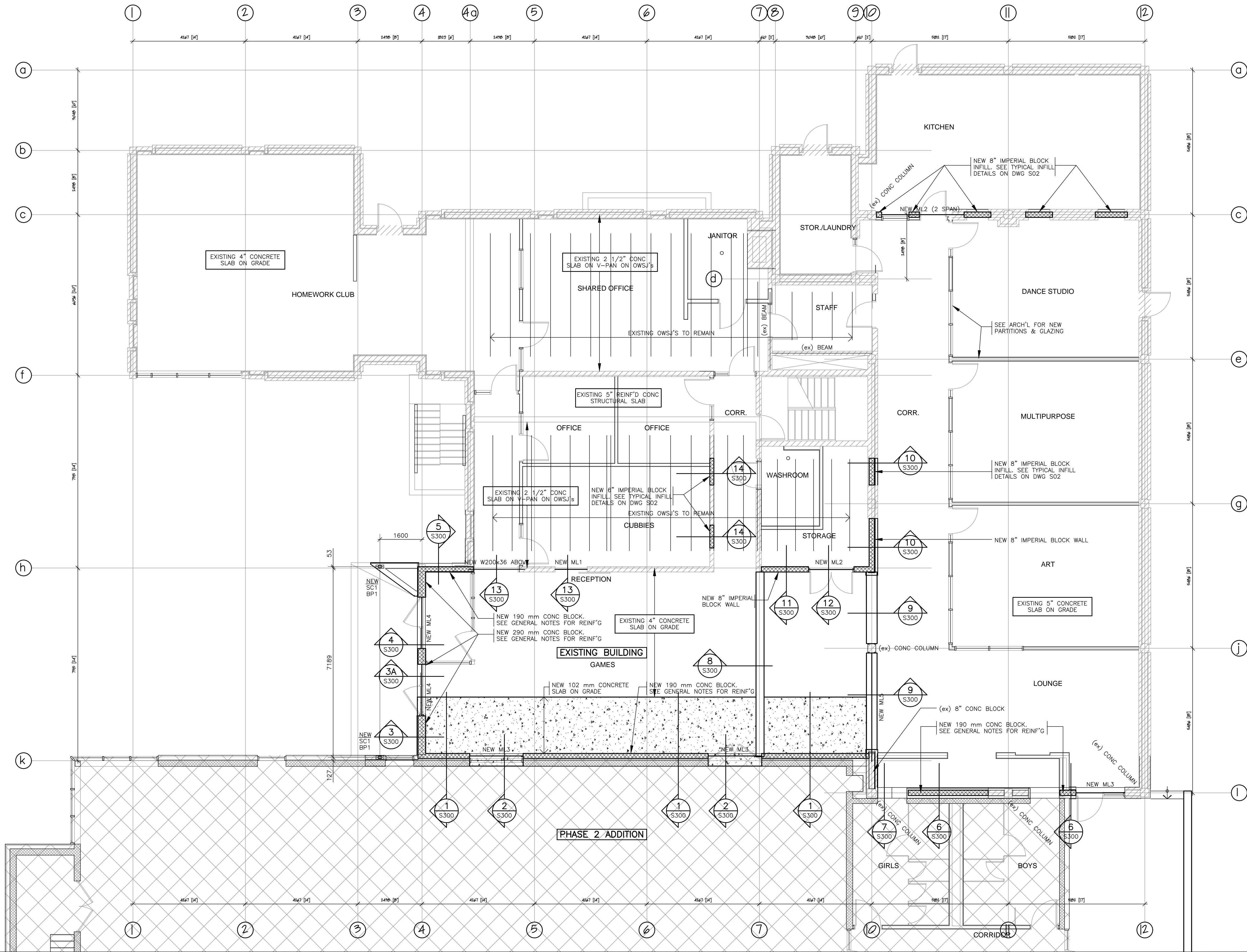
STEEL COLUMN SCHEDULE	
MARK	SIZE
SC1	HSS 102 x 102 x 8 GALV'D

NOTES:
 1. ALL HSS SECTIONS TO BE ASTM A500 (GRADE C) OR G40.21M350W (CLASS C).
 2. SEE ALSO GENERAL NOTES ON S01.

CONCRETE COMPRESSIVE STRENGTH	
INTERIOR SLAB ON GRADE	25 MPa TYPE N
INTERIOR FOUNDATION WALLS	25 MPa TYPE N
EXTERIOR SLAB ON GRADE	32 MPa CLASS C2
PERIMETER FOUNDATION WALLS	25 MPa TYPE F2
FOOTINGS	25 MPa TYPE N
INTERIOR PIERS	25 MPa TYPE N
EXTERIOR PIERS WALLS	35 MPa CLASS C1

MASONRY LINTEL SCHEDULE		
MARK	SIZE	REINFG
ML1	8" x 16" DP, SEE ELEVATION ML1/S201	1-20M BOTTOM 15M @ 800 VERT
ML2	8" x 24" DP	1-15M TOP 1-20M BOTTOM 15M @ 800 VERT
ML3	190 x 790 DP	1-15M TOP 1-20M BOTTOM 15M @ 800 VERT
ML4	290 x 990 DP	1-15M MID-HEIGHT 1-20M BOTTOM 20M @ 600 VERT
ML5	8" x 54" ± DP SEE SECTION R4 & ELEVATION R44/S201	1-20M TOP 1-20M BOTTOM UPPER 1-20M BOTTOM LOWER 15M @ 800 VERT

NOTE:
 1. ALL LINTELS ARE TO BE GROUTED SOLID
 2. LINTELS TO BEAR ON WALL EACH END 200 mm U/N
 3. GROUT WALL ENDS SOLID BELOW LINTEL FOR WIDTH OF BEARING INDICATED ABOVE.
 4. SEE DRAWING S01 FOR MASONRY REINFORCEMENT, PROVIDE 20M VERT IN EACH GROUTED CORE AT WALL ENDS E.S. OF OPENING UNLESS NOTED OTHERWISE ON PLANS.
 5. USE SPECIAL LINTEL BLOCKS FOR LOWEST LINTEL COURSE & LOW WEB BLOCKS FOR ALL OTHER LINTEL COURSES.
 6. DO NOT INTERRUPT TYPICAL WALL REINFORCING AT LINTELS.



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- MAIN ROOF NOTES:**
- SEE DRAWING S01 FOR GENERAL NOTES
 - SEE DRAWING S02 FOR TYPICAL DETAILS

3. DESIGN LOADS:

TYPICAL STEEL ROOF AREAS

ROOF'D & INSUL.	0.60 kPa
BOARD	0.10
STEEL DECK	0.15
STRUCTURE	0.25
CEILING	0.15
MECH. & MISC.	0.25
DEAD LOAD	1.50 kPa
SNOW LOAD	2.32 kPa (OR CONCENTRATION)
TOTAL LOAD	3.82 kPa (OR DL + CONCEN)

- T.O.S = TOP OF STEEL ELEV. = TOP OF OWSJ'S SEE PLAN FOR ELEVATIONS
- REFER TO PLANS FOR ADDITIONAL DEFLECTION LIMITATIONS.
- Q.W.S.J.'S**
- U/N, THE ROOF OWSJ'S ARE TO BE DESIGNED SUCH THAT THE MAX DEFLECTION DUE TO SNOW LOADS DOES NOT EXCEED L/360 OR 25mm.
- ADDITIONAL EQUIPMENT LOADS & LOADS NOTED ON OTHER DWGS
- NOTE THAT THE SNOW LOADS INDICATED MAY BE REDUCED BY THE RATIO 0.9/1.00 IN ACCORDANCE WITH OBC 4.1.6.2

- OWSJ SHO'E DEPTH 100 mm UNLESS NOTED
- OWSJ DESIGNER TO ENSURE THE SHO'E AND TOP CHORD ARE SUFFICIENT TO TRANSFER THE STEEL DECK IN-PLANE SHEAR CAPACITY (ROLL OVER RESISTANCE) TO THE BEARING BASE PLATE.
- PROVIDE 2-12 mm THK STIFFENER PLATES EACH SIDE OF ALL BEAM WEBS WHICH ARE CONTINUOUS OVER SUPPORTS (i.e. COLUMNS) SEE TYPICAL DETAIL S02.
- OWSJ TOP & BOTTOM CHORD BRIDGING**
- OWSJ MANUFACTURER IS RESPONSIBLE FOR BRIDGING DESIGN & DETAILING UNLESS NOTED OTHERWISE.
- OWSJ MANUFACTURER TO REVIEW BRIDGING REQUIREMENTS WITH RESPECT TO ERECTION AND WIND SUCTION ON THE ROOF AND ADD BRIDGING AS REQUIRED.

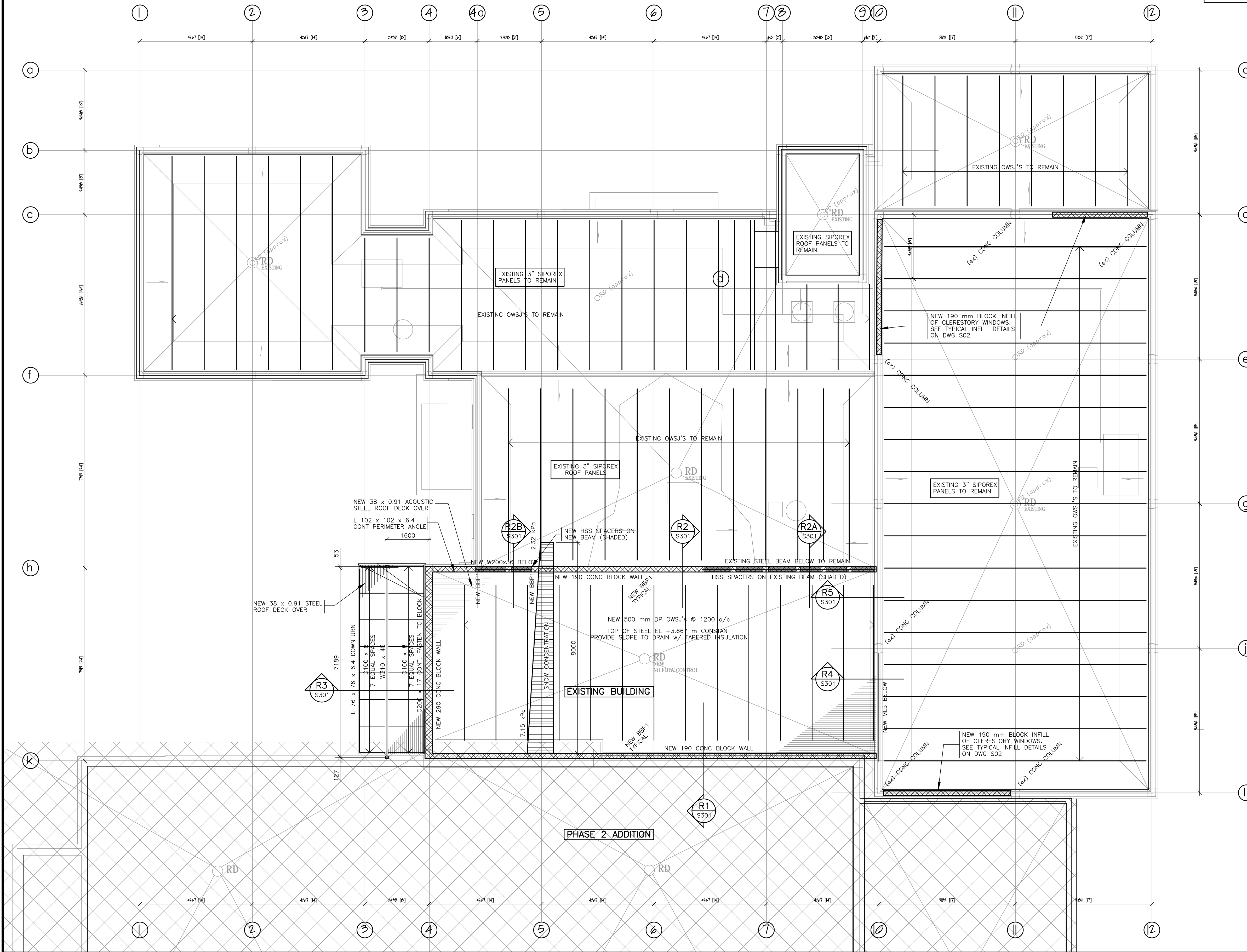
- BRIDGING IS TO BE NEATLY ERECTED IN ROOMS WITHOUT CEILINGS.
- PROVIDE DIAGONAL BRIDGING AT BEAMS & AT END SPACES. CONNECT BRIDGING TO BLOCK WALLS AS INDICATED.
- MINIMUM BRIDGING ANGLE SIZE TO BE L 35 x 35 x 3
- SEE DRAWING S02 FOR TYPICAL DETAILS FOR MECH'L UNIT SUPPORT & MECH'L OPENING FRAMING UNLESS NOTED
- ENSURE THAT WELDING PROCEDURES DO NOT DAMAGE OWSJ'S
- REFER TO ARCHITECTURAL DRAWINGS FOR SUPPLEMENTARY INFORMATION AND ALLOW FOR ARCHITECTURAL REVIEW PRIOR TO FABRICATION.

- MECHANICAL OPENINGS SHOWN ON THIS PLAN ARE 300 x 300 mm IN SIZE OR LARGER. SEE MECH'L, ELECT'L & ARCH'L DWGS FOR SMALLER OPENINGS. CONFIRM SIZE OF OPENINGS WITH MECH'L DWGS. SEE TYPICAL DETAIL ON DWG S02 FOR ADDITIONAL OPENING FRAMING UNLESS NOTED
- MECHANICAL PIPING MUST BE SUPPORTED FROM OWSJ TOP CHORD ONLY. DO NOT SUPPORT FROM OWSJ BOTTOM CHORD OR WEB MEMBERS OR STEEL DECK. SUPPORT AT OR NEAR OWSJ TOP CHORD PANEL POINT IS PREFERRED. IF NECESSARY, OWSJ MANUFACTURER IS TO COMMENT ON PERMISSIBILITY OF LOCATING PIPING SUPPORTS BETWEEN TOP CHORD PANEL POINTS.

BEAM BEARING PLATE SCHEDULE

MARK	SIZE	ANCHORS
BBP1	350 x 180 x 19 THK PLATE	2-15M WELDABLE REINFORCING BARS x 400 Lg

- NOTES:**
- BEAMS SUPPORTED ON BEAM BEARING BASE PLATES TO EXTEND ONTO PLATE A MINIMUM OF 80% OF LENGTH OF PLATE, IN DIRECTION OF BEAM UNLESS NOTED OTHERWISE ON PLAN.
 - ANCHORS ARE TO BE CENTERED ON PLATE & SPACED AT 200 o/c TO ALIGN WITH CORE VOIDS IN BLOCK UNLESS OTHERWISE NOTED
 - ENSURE BEAM AND JOIST POCKETS IN MASONRY WALLS ARE BUILT-IN WITH MASONRY OR GROUTED SOLID.
 - GROUT BLOCK CORES SOLID 600 mm MINIMUM BELOW BEAM BEARING PLATES



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PROFESSIONAL ENGINEER
 10/06/2017
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 R. I. CUNLIFFE
 ENGINE OF ONTARIO

DRAWN
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NORTH ELEVATION



WEST ELEVATION

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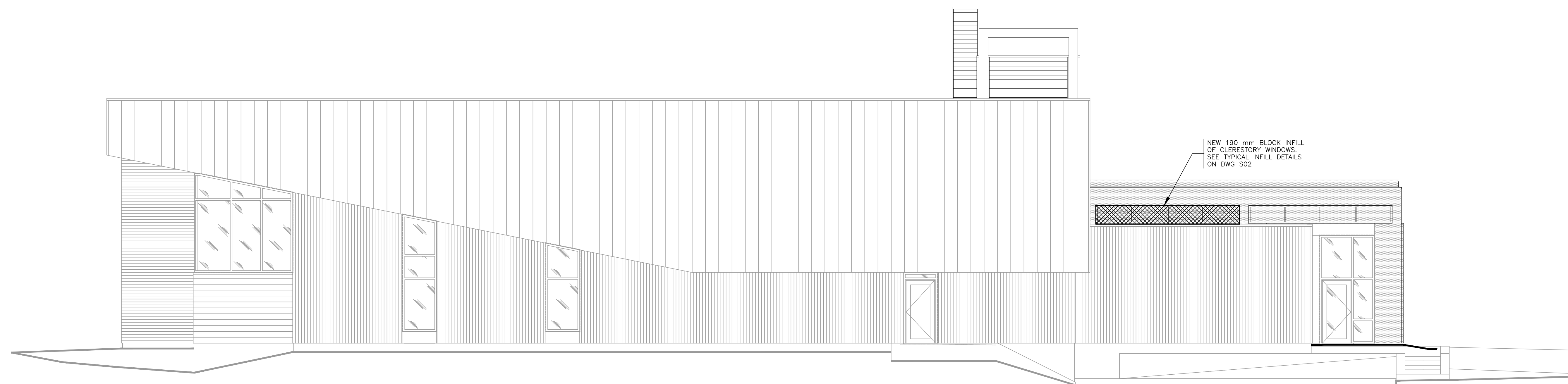
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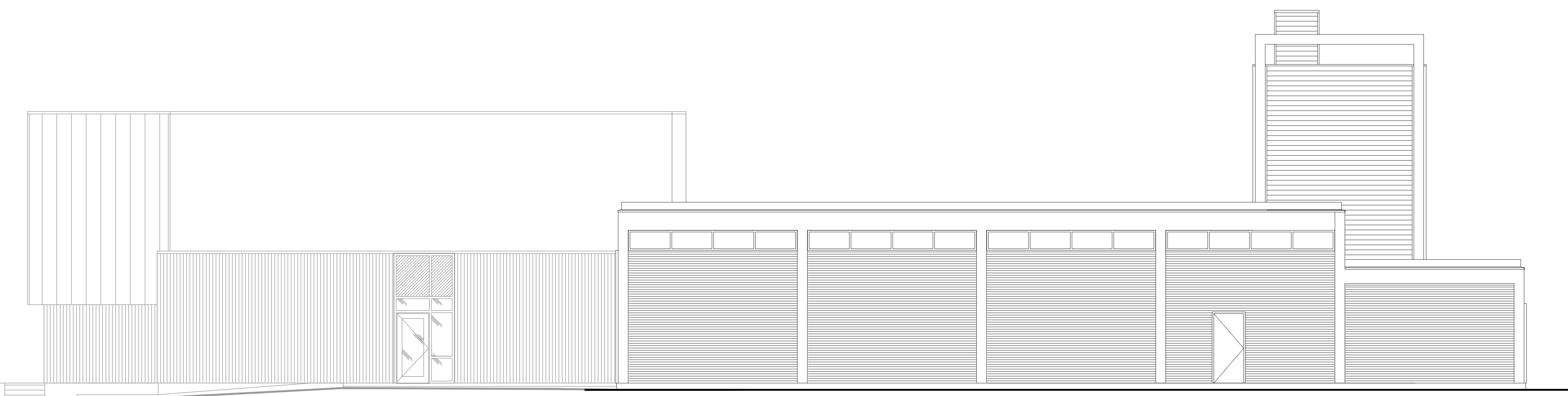
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SOUTH ELEVATION



EAST ELEVATION

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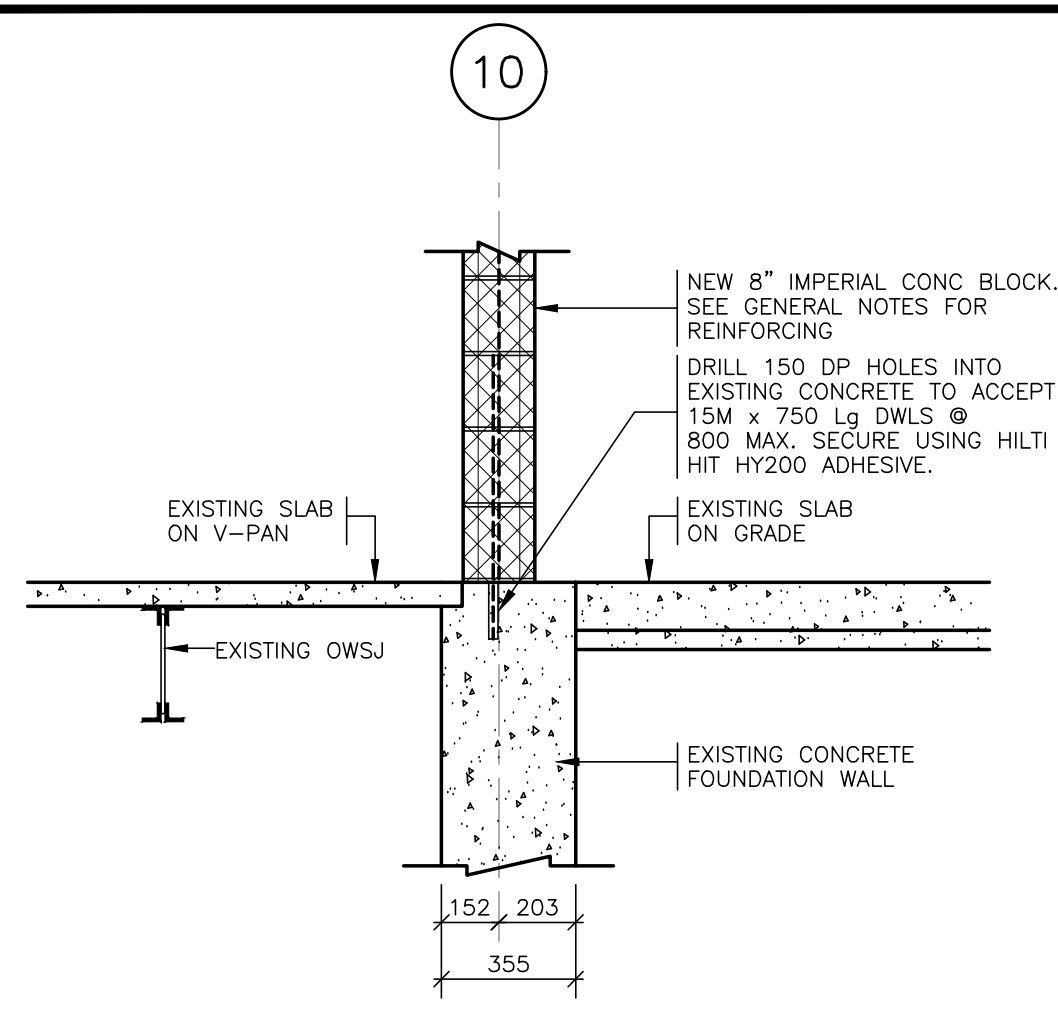
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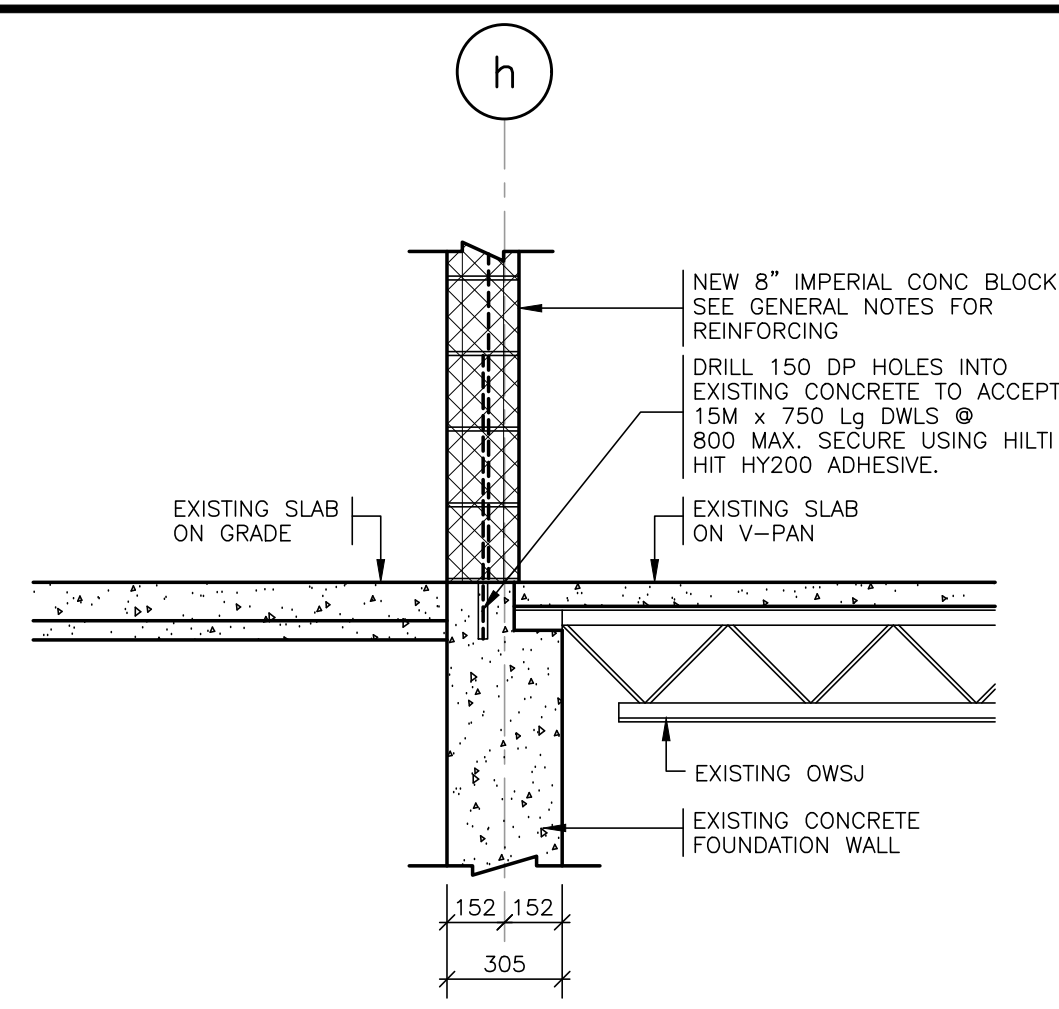
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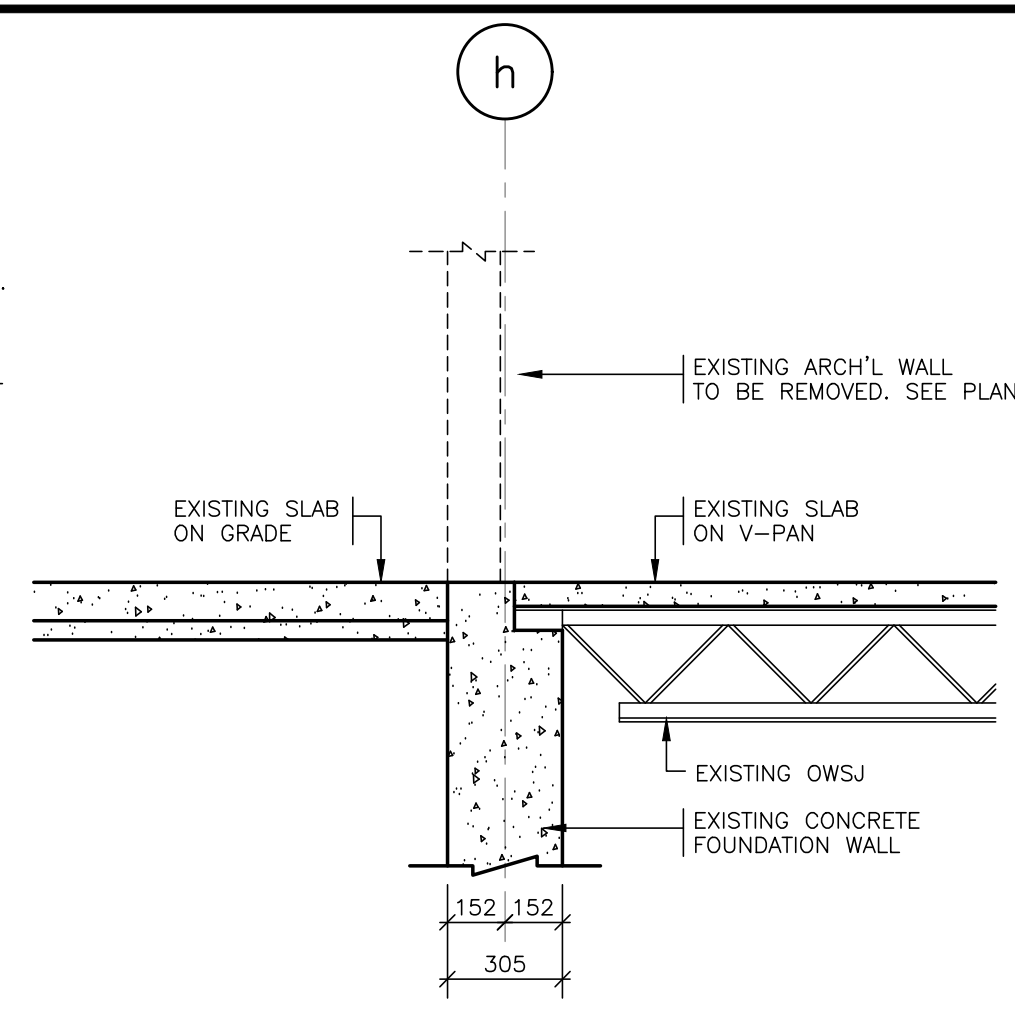
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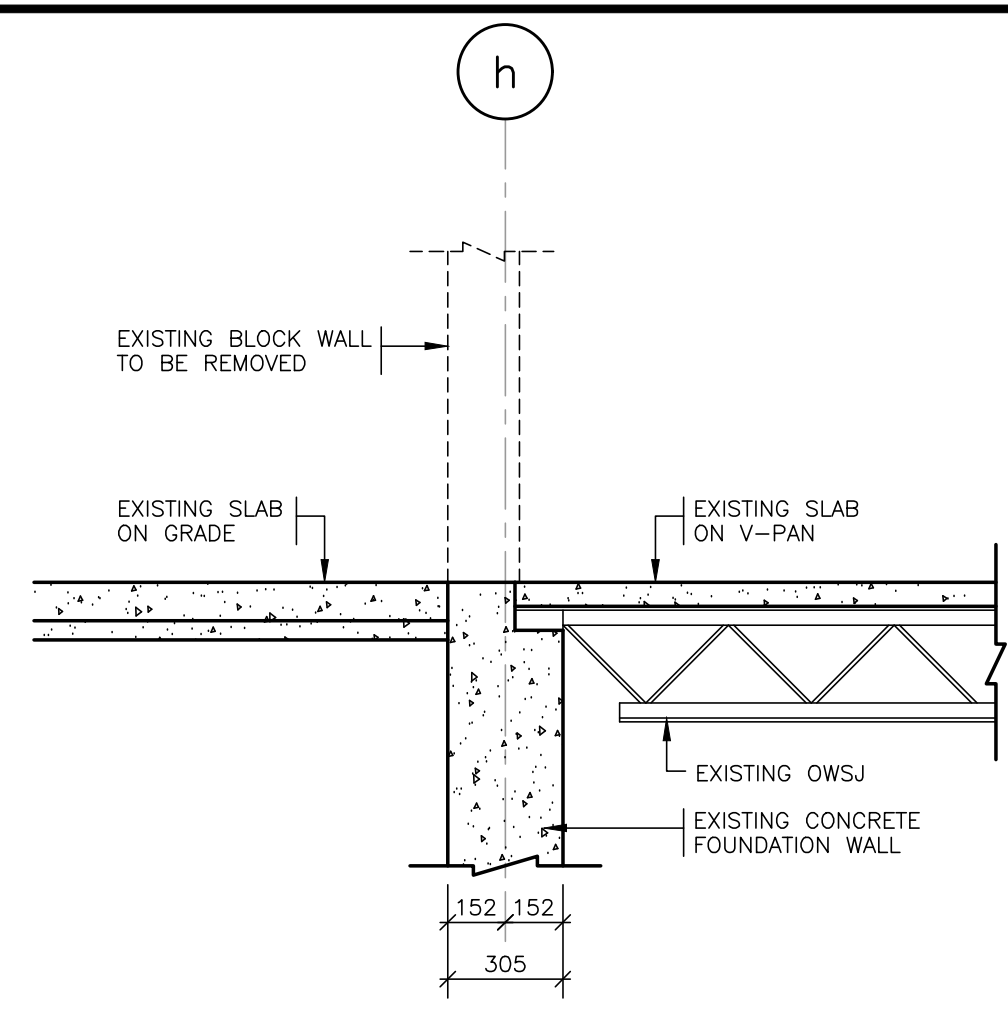
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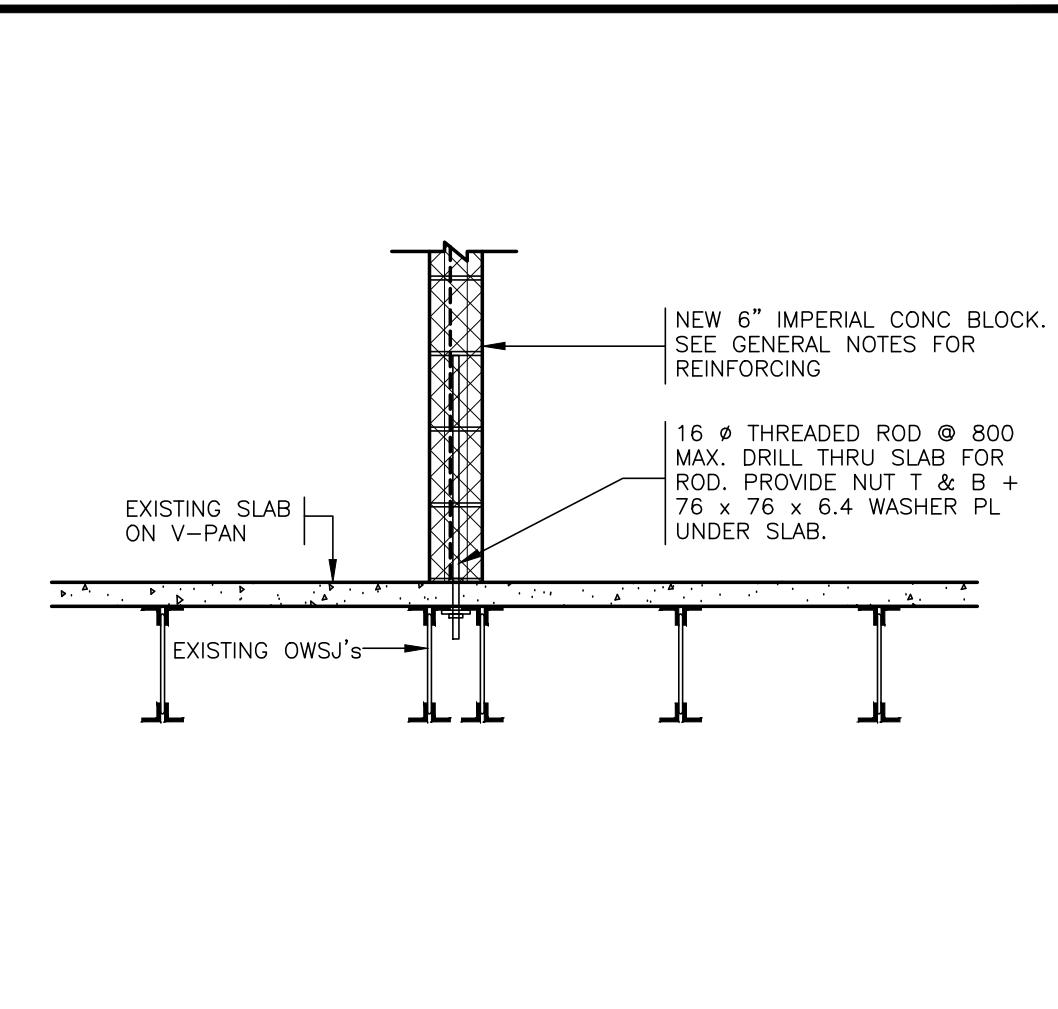
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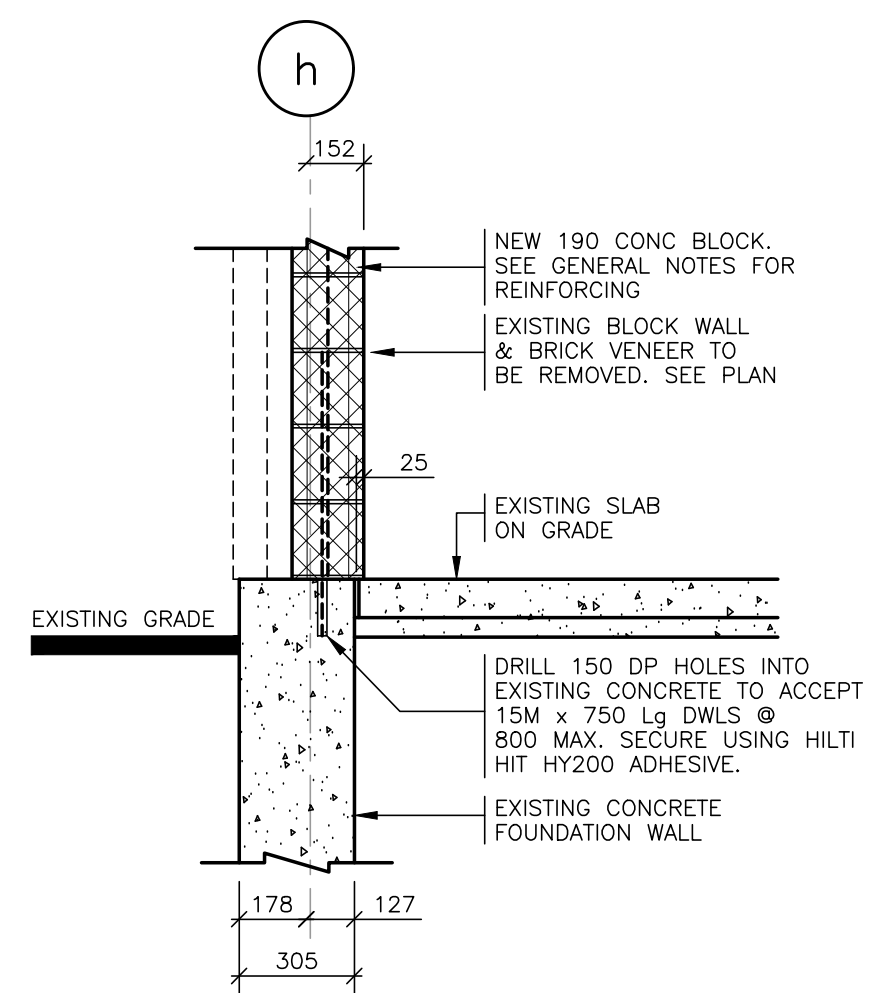
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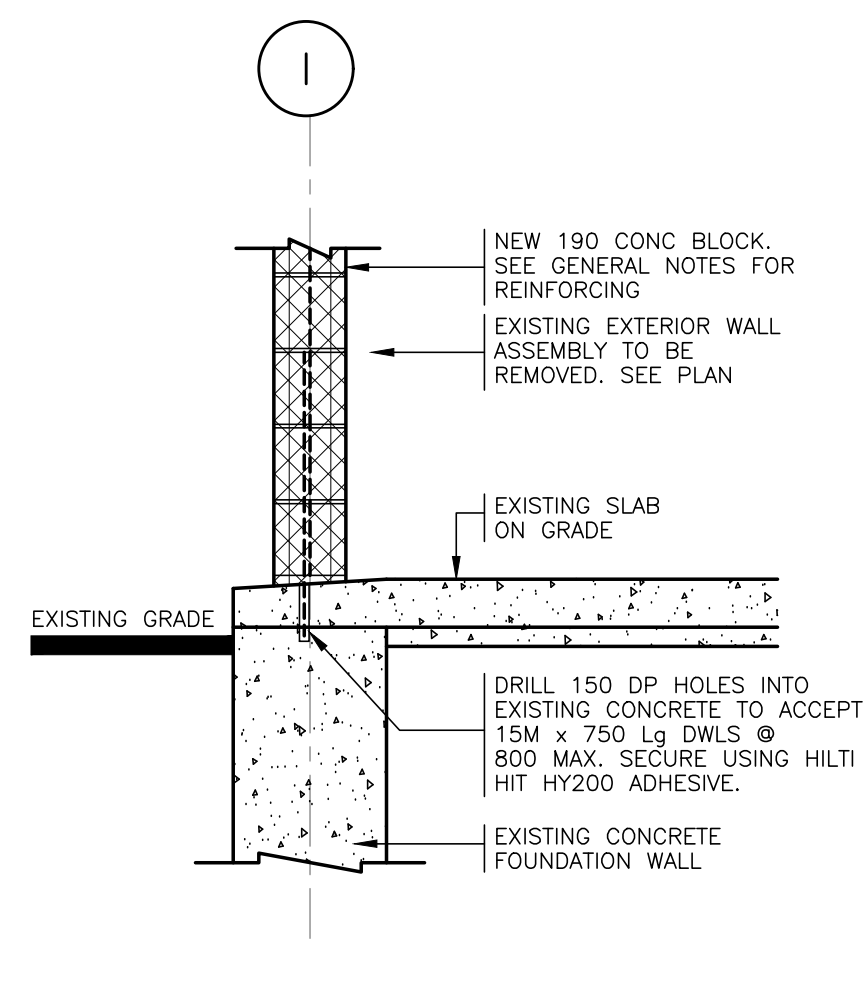
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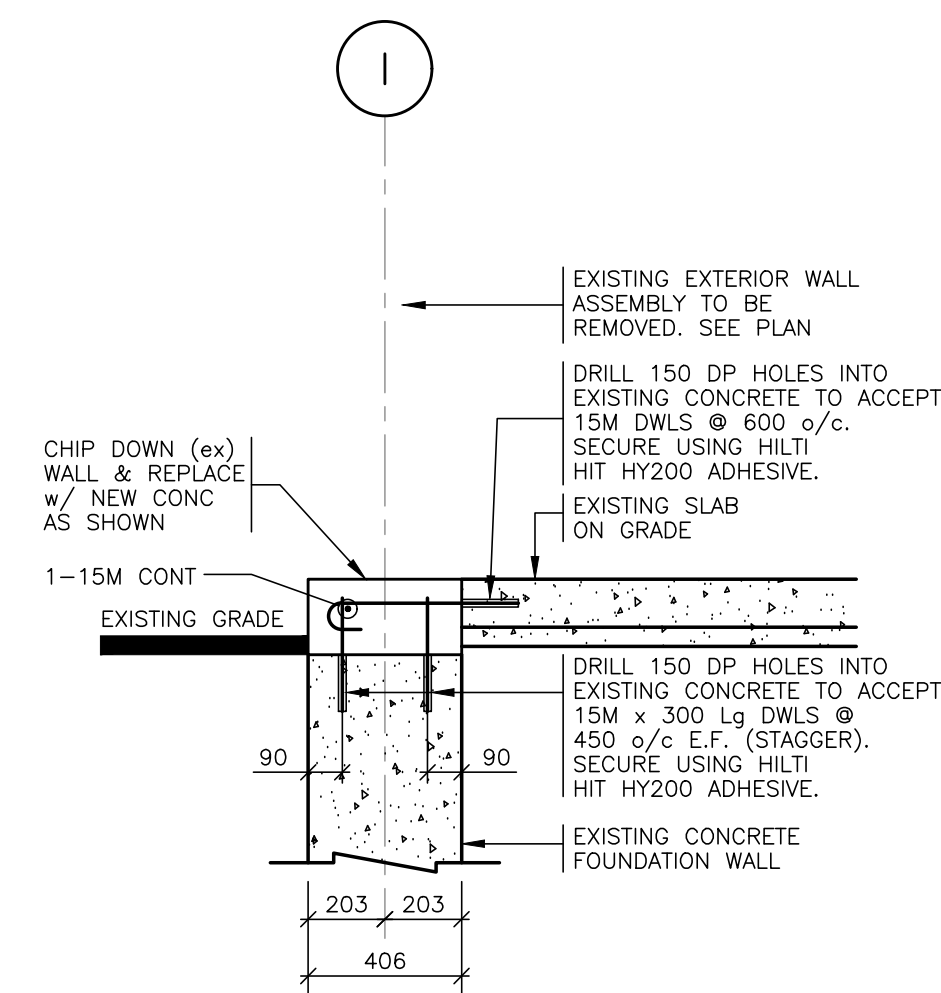
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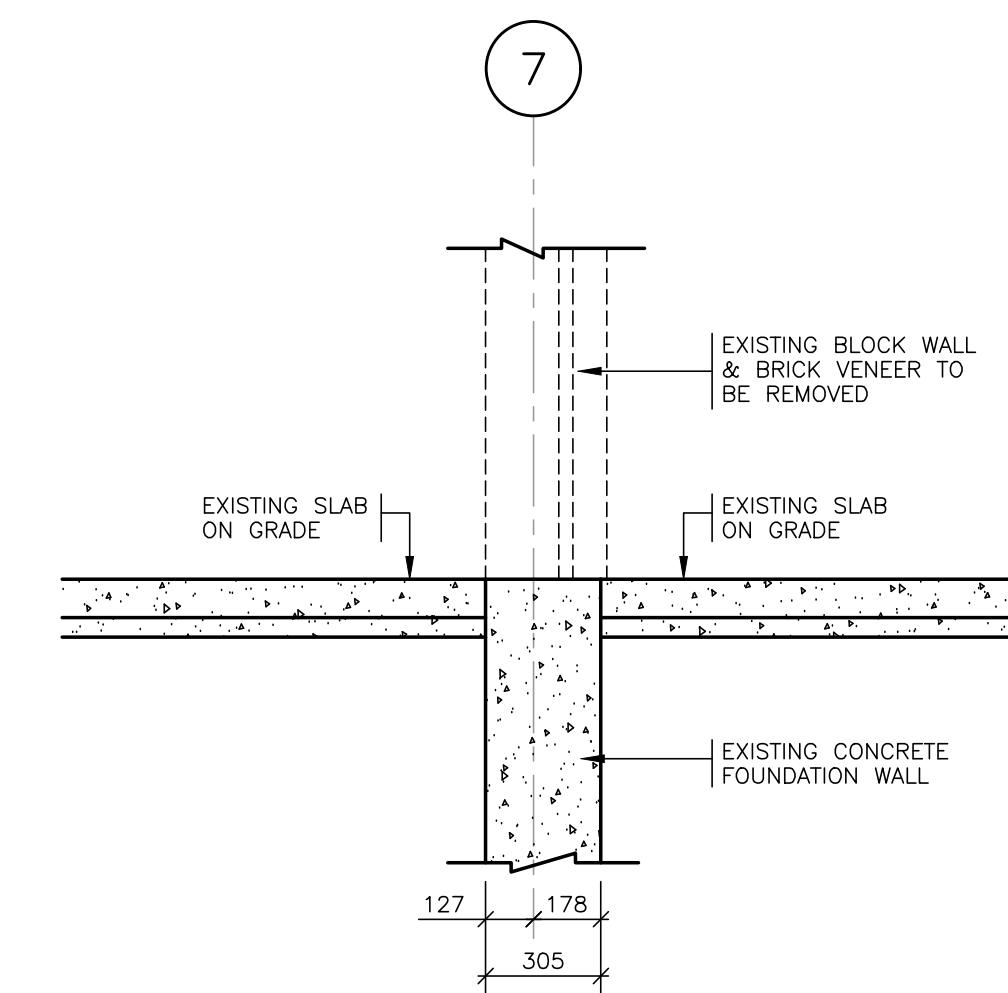
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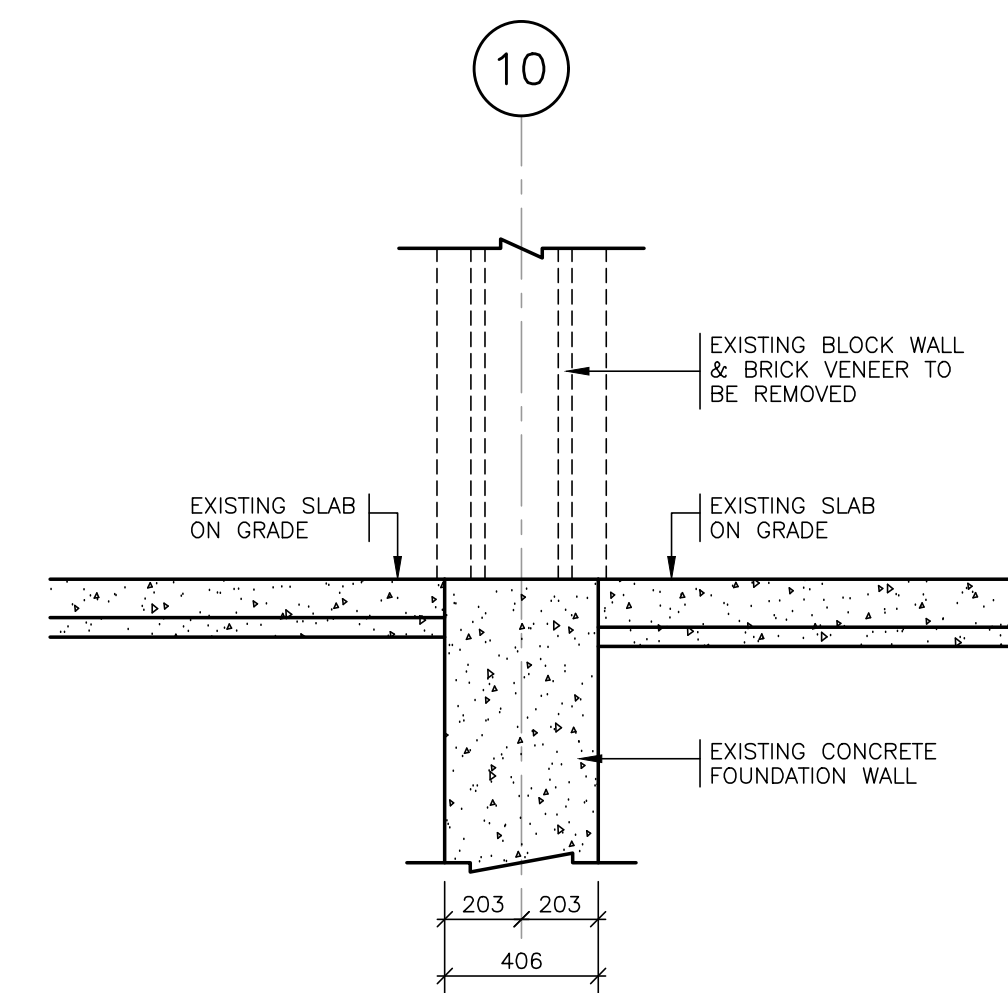
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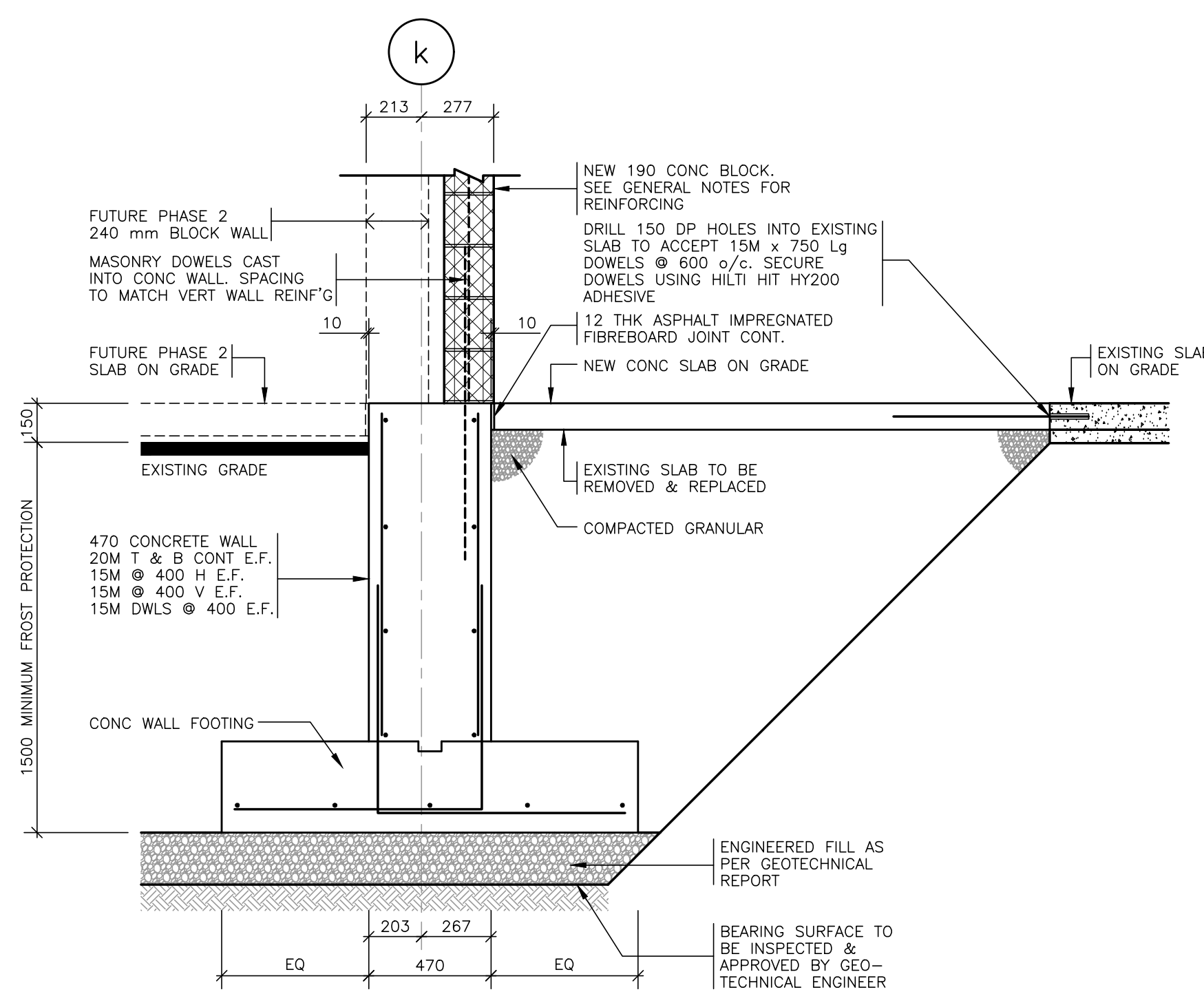
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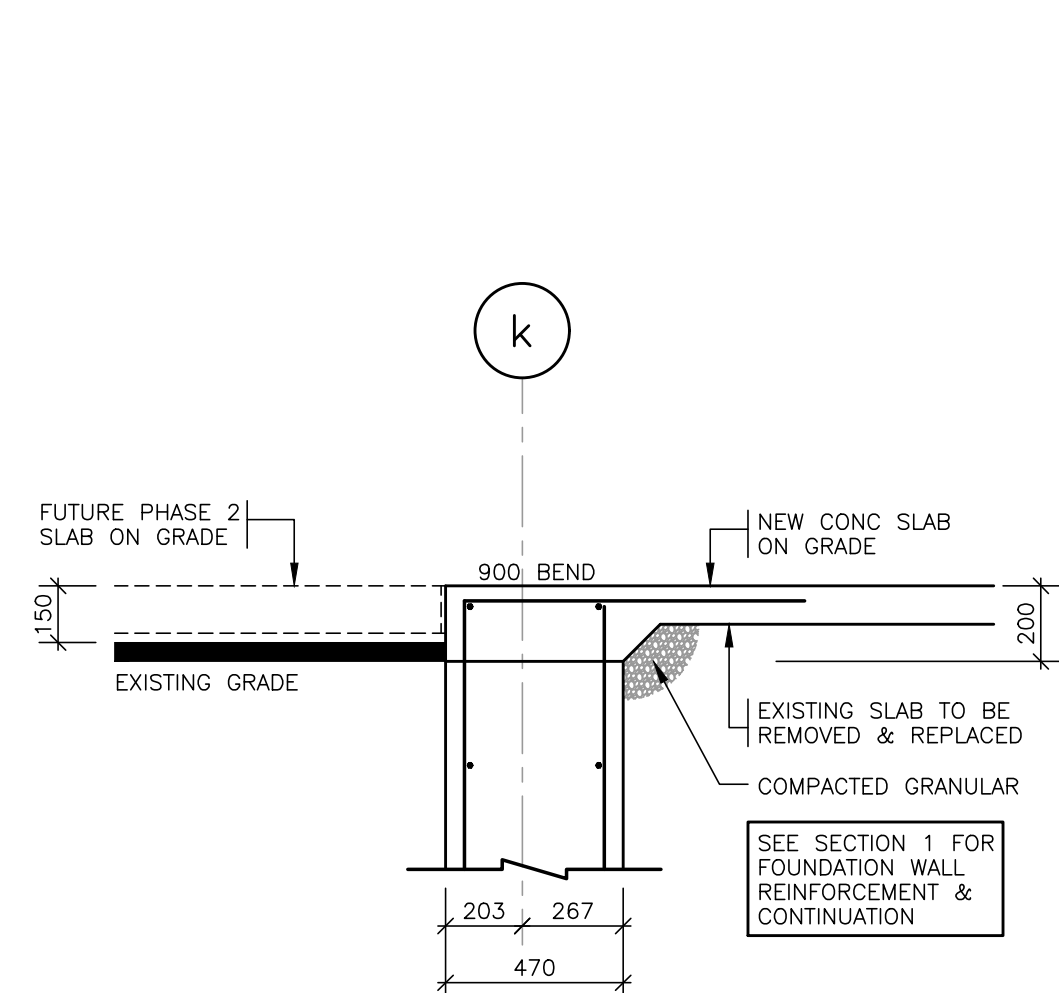
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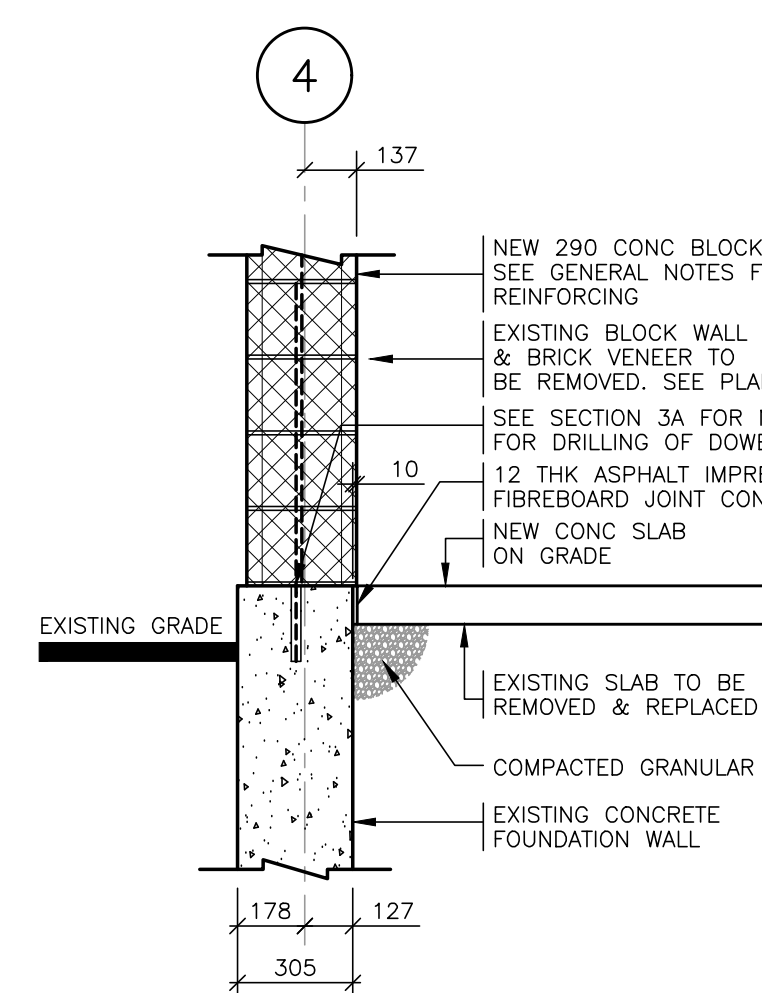
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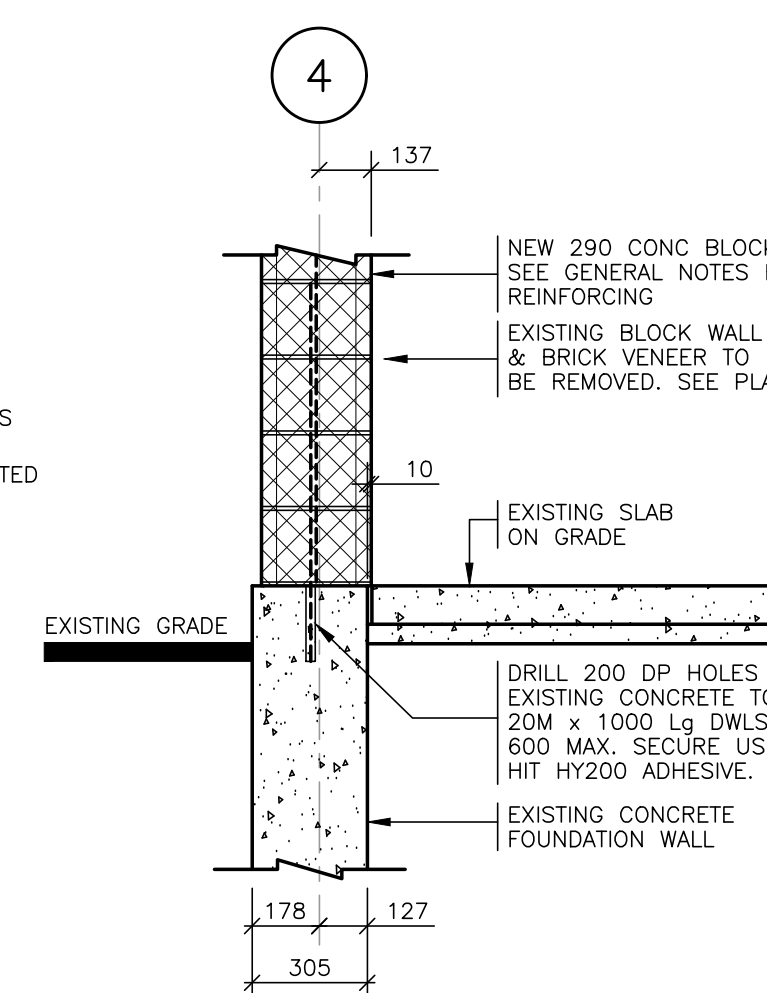
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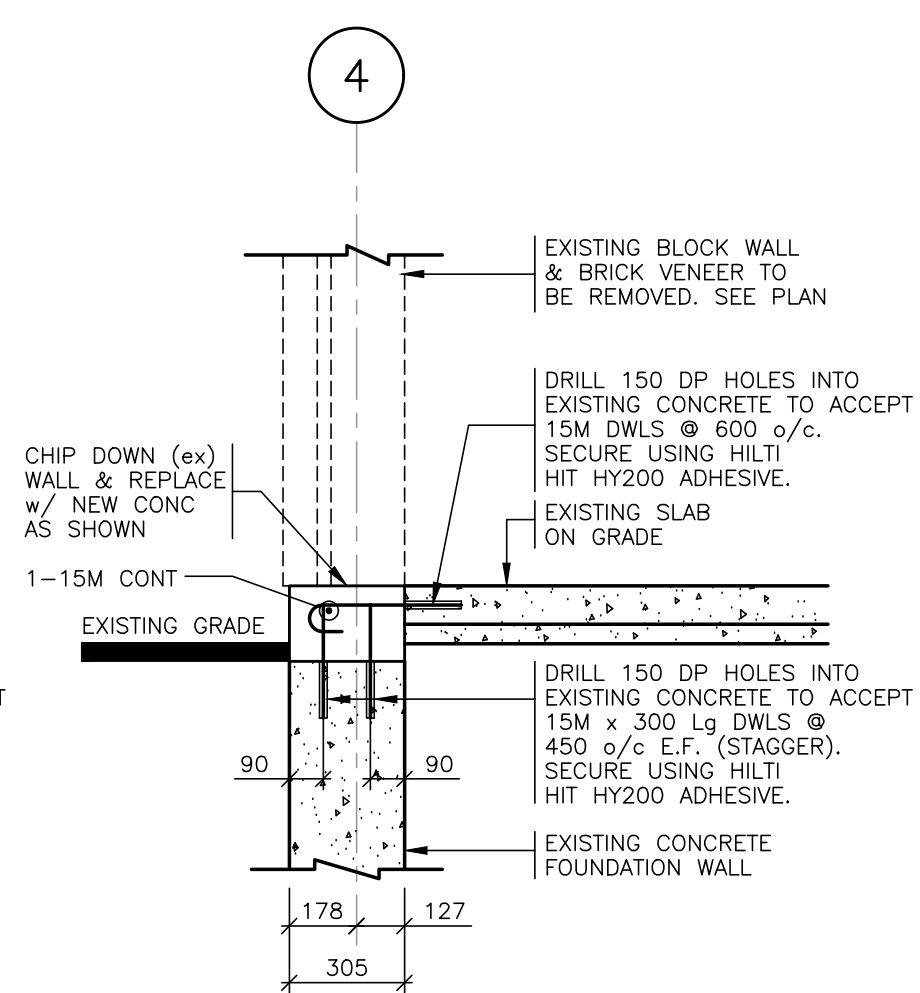
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SN2 1 : 20



3 SECTION
SN2 1 : 20



3A SECTION
SN2 1 : 20



4 SECTION
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ENGINEER'S SEAL
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