

CONSTRUCTION NOTES (Unless otherwise noted)

ALL CONSTRUCTION TO ADHERE TO THESE PLANS AND SPEC'S AND TO CONFORM TO THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. THESE REQUIREMENTS ARE TO BE TAKEN AS MINIMUM SPECIFICATIONS. ONT. REG. 332/12-2012 OBC.

1. **ROOF CONSTRUCTION**
NO.210 (10.25kg/m²) ASPHALT SHINGLES, 10mm (3/8") PLYWOOD SHEATHING WITH "H" CLIPS. APPROVED WOOD TRUSSES @ 610mm (24") O.C. MAX. APPROVED EAVES PROTECTION TO EXTEND 900mm (3'-0") FROM EDGE OF ROOF AND MIN. 300mm (12") BEYOND INNER FACE OF EXTERIOR WALL, (EAVES PROTECTION NOT REQ'D FOR ROOF SLOPES 8:12 OR GREATER) 38x89 (2"x4") TRUSS BRACING @ 1830mm (6'-0") O.C. AT BOTTOM CHORD, PREFIN. ALUM. EAVESTROUGH, FASCIA, RWL & VENTED SOFFIT. PROVIDE ICE & WATER SHIELD TO ALL ROOF/WALL SURFACES SUSCEPTIBLE TO ICE DAMMING. ROOF SHEATHING TO BE FASTENED 150 (6") C/C ALONG EDGES & INTERMEDIATE SUPPORTS WHEN TRUSSES SPACED GREATER THAN 406 (16"). ATTIC VENTILATION 1:300 OF INSULATED CEILING AREA WITH MIN. 25% AT EAVES & MIN. 25% AT RIDGE (OBC 9.19.1.2.).

2. **FRAME WALL CONSTRUCTION (2"x6") (REFER TO B.O.P. FORM)**
SIDING, HARDIE BOARD, STUCCO BOARD OR EQUAL AS PER ELEVATION, 19x64 (1"x3") VERTICAL WOOD FURRING, APPROVED SHEATHING PAPER, MIN. RSI. 0.88 (R-5) RIGID INSULATION, 38x140 (2"x6") STUDS @ 400mm (16") O.C. FILLED WITH MIN. RSI. 3.87 (R-22) BATT INSULATION, TOTAL MIN. RSI. 4.75 (R-27). APPROVED DIAGONAL WALL BRACING, VAPOUR BARRIER AND CONT. AIR BARRIER, 13mm (1/2") INT. DRYWALL FINISH.

- 2B. **FRAME WALL CONSTRUCTION - GARAGE WALLS**
SIDING AS PER ELEV., 19x38 (1"x2") VERTICAL WOOD FURRING, CONTIN. SHEATHING MEMBRANE, 9.5mm (3/8") EXT. TYPE SHEATHING, 38x89 (2"x4") STUDS @ 406mm (16") O.C. (FOR MAX. HEIGHT 3000mm (9'-10")) OR 38x140 (2"x6") STUDS @ 406mm (16") O.C. (FOR MAX. HEIGHT OF 3.6m (11'-10")) WITH APPROVED DIAGONAL WALL BRACING. 13mm (1/2") INTERIOR DRYWALL FINISH. REFER TO NOTE 19 WHERE FLOOR EXISTS ABOVE GARAGE. SIDING TO BE MIN. 200mm (8") ABOVE FINISH GRADE.

- 2C. **STUCCO WALL CONSTRUCTION (2"x6") (REFER TO B.O.P. FORM)**
STUCCO CLADDING SYSTEM CONFORMING TO O.B.C. 9.27.1.1.(2) & 9.28 THAT EMPLOY A MINIMUM 6mm (1/4") AIR SPACE BEHIND THE CLADDING WITH POSITIVE DRAINAGE TO THE EXTERIOR AND APPLIED PER MANUFACTURERS SPECIFICATIONS ON 25mm (1") MIN. EXTRUDED OR EXPANDED RIGID POLYSTYRENE, APPROVED SHEATHING PAPER, MINIMUM RSI. 0.88 (R-5) RIGID INSULATION, 38x140 (2"x6") STUDS @ 400mm (16") O.C. FILLED WITH MIN. RSI. 3.87 (R22) BATT INSUL. TOTAL MIN. RSI. 4.75 (R-27). APPROVED DIAGONAL WALL BRACING, VAPOUR BARRIER AND CONTIN. AIR BARRIER, 13mm (1/2") GYPSUM BOARD INTERIOR FINISH. STUCCO TO BE MIN. 200 (8") ABOVE FINISH GRADE.

- 2D. **STUCCO WALL CONSTRUCTION - GARAGE WALLS**
STUCCO CLADDING SYSTEM CONFORMING TO O.B.C. 9.27.1.1.(2) & 9.28 THAT EMPLOY A MINIMUM 6mm (1/4") AIR SPACE BEHIND THE CLADDING WITH POSITIVE DRAINAGE TO THE EXTERIOR AND APPLIED PER MANUFACTURERS SPECIFICATIONS OVER 25mm (1") MIN. EXPANDED OR EXTRUDED RIGID POLYSTYRENE ON APPROVED AIR/MOISTURE BARRIER ON 13mm (1/2") EXT. TYPE SHEATHING ON 38x89 (2"x4") STUDS @ 406mm (16") O.C. (FOR MAX. HEIGHT 3000mm (9'-10")) OR 38x140 (2"x6") STUDS @ 406mm (16") O.C. (FOR MAX. HEIGHT OF 3.6m (11'-10")) WITH APPROVED DIAGONAL WALL BRACING. 13mm (1/2") INTERIOR DRYWALL FINISH. REFER TO NOTE 19 WHERE FLOOR EXISTS ABOVE GARAGE. STUCCO TO BE MIN. 200mm (8") ABOVE FINISH GRADE.

3. **BRICK VENEER CONSTRUCTION (2"x6") (REFER TO B.O.P. FORM)**
90mm (4") FACE BRICK, 25mm (1") AIR SPACE, 22x180x0.76mm (7/8"x7"x0.03") GALV. METAL TIES @ 406mm (16") O.C. HORIZONTAL 600mm (24") O.C. VERTICAL. APPROVED SHEATHING PAPER, MIN. RSI. 0.88 (R-5) RIGID INSULATION, 38x140 (2"x6") STUDS @ 400mm (16") O.C. FILLED WITH MIN. RSI. 3.87 (R-22) BATT INSULATION, TOTAL MIN. RSI. 4.75 (R-27). APPROVED DIAGONAL WALL BRACING, VAPOUR BARRIER AND CONT. AIR BARRIER, 13mm (1/2") INT. DRYWALL FINISH. PROVIDE WEEP HOLES @ 800mm (32") O.C. BOTTOM COURSE AND OVER OPENINGS. PROVIDE BASE FLASHING UP MIN. 150mm (6") BEHIND BUILDING PAPER.

- 3B. **BRICK VENEER CONSTRUCTION - GARAGE WALLS**
90mm (4") FACE BRICK, 25mm (1") AIR SPACE, 22x180x0.76mm (7/8"x7"x0.03") GALV. METAL TIES @ 406mm (16") O.C. HORIZONTAL 610mm (24") O.C. VERTICAL. APPROVED SHEATHING PAPER, 9.5mm (3/8") EXTERIOR TYPE SHEATHING, 38x89 (2"x4") STUDS @ 406mm (16") O.C. (FOR MAX. HEIGHT 3000mm (9'-10")) OR 38x140 (2"x6") STUDS @ 406mm (16") O.C. (FOR MAX. HEIGHT OF 3.6m (11'-10")) WITH APPROVED DIAGONAL WALL BRACING. 13mm (1/2") INTERIOR DRYWALL FINISH. REFER TO NOTE 19 WHERE FLOOR EXISTS ABOVE GARAGE. PROVIDE WEEP HOLES @ 800mm (32") O.C. BOTTOM COURSE AND OVER OPENINGS. PROVIDE BASE FLASHING UP MIN. 150mm (6") BEHIND BUILDING PAPER. BRICK TO BE MIN. 150mm (6") ABOVE FINISH GRADE.

4. **INTERIOR STUD PARTITIONS**
FOR BEARING PARTITIONS 38x89 (2"x4") @ 406mm (16") O.C. FOR 2 STOREYS AND 305mm (12") O.C. FOR 3 STOREYS, NON-BEARING PARTITIONS 38x89 (2"x4") @ 610mm (24") O.C. PROVIDE 38x89 (2"x4") BOTTOM PLATE AND 2/38x89 (2/2"x4") TOP PLATE. 13mm (1/2") INT. DRYWALL BOTH SIDES OF STUDS, PROVIDE 38x140 (2"x6") STUDS/PLATES WHERE NOTED.

5. **FOUNDATION WALL/FOOTINGS: (9.15.3, 9.15.4, 9.13.2, 9.14.2.1(2))**
200mm (8") POURED CONC. FDTN. WALL 15MPa (2200psi) WITH BITUMENOUS DAMPROOFING AND DRAINAGE LAYER. DRAINAGE LAYER REQ'D. WHEN BASEMENT INSUL. EXTENDS 900 (2'-11") BELOW FIN. GRADE. DRAINAGE LAYER IS NOT REQ'D. IF FOUNDATION WALL IS WATERPROOFED. MAXIMUM POUR HEIGHT 2390 (7'-10") ON 500x155 (20"x6") CONTINUOUS KEYED CONC. FTG. BRACE FDTN. WALL PRIOR TO BACKFILLING. ALL FOOTINGS SHALL REST ON NATURAL UNDISTURBED SOIL OR COMPACTED ENGINEERED FILL.

* REFER TO UNIT PLANS FOR STRIP FOOTING SIZES *

6. **FOUNDATION DRAINAGE OBC. 9.14.2. & 9.14.3.**
100mm (4") DIA. FOUNDATION DRAINAGE TILE 150mm (6") CRUSHED STONE OVER AND AROUND DRAINAGE TILES.

7. **BASEMENT SLAB OBC. 9.3.1.6(1)(b), 9.16.4.5(1), 9.25.3.3(15)**
80mm (3") MIN. 25MPa (3600psi) CONC. SLAB ON 100mm (4") COARSE GRANULAR FILL, OR 15MPa (2200psi) CONC. WITH DAMPROOFING BELOW SLAB. UNDER SLAB INSULATION PER B.O.P. FORM where required. ALL SLAB JOINTS & PENETRATIONS TO BE SEALED TO MAINTAIN AIR BARRIER.

8. **WOOD SUBFLOORS (SEE OBC. 9.23.14. & 9.30.2.1)**
-19mm (3/4") MIN. T & G SUBFLOOR UNDER GROUND FLOOR FINISH FLOOR.

9. **ATTIC INSULATION (REFER TO B.O.P. FORM)**
RSI 10.56 (R60) BLOWN IN ROOF INSULATION AND APPROVED VAPOUR BARRIER, 16mm (5/8") INT. DRYWALL FINISH OR APPROVED EQUAL. RSI 3.52 (R20) MIN. ABOVE INNER SURFACE OF EXTERIOR WALL.

10. **WOOD SUBFLOORS (SEE OBC. 9.23.14. & 9.30.2.1)**
-19mm (3/4") MIN. T & G SUBFLOOR UNDER GROUND FLOOR FINISH FLOOR.

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16. **CONCRETE PILASTER**
BEAM POCKET OR 200x200 (8"x8") POURED CONC. NIB WALLS. MIN. BEARING 90mm (3-1/2")

17. **CONCRETE PILASTER**
19x38 (1"x2") CONTINUOUS WOOD STRAPPING BOTH SIDES OF STEEL BEAM. (OBC. 9.23.4.3.(3c))

18. **GARAGE SLAB**
100mm (4") 32MPa (4640psi) CONC. SLAB WITH 5-8% AIR ENTRAINMENT ON OPTIONAL 100 (4") COARSE GRANULAR FILL WITH COMPACTED SUB-BASE OR COMPACTED NATIVE FILL. SLOPE TO FRONT (EXTERIOR) AT 1% MIN.

19. **INTERIOR GARAGE WALLS & CEILINGS (REFER TO B.O.P. FORM)**
13mm (1/2") GYPSUM BOARD ON WALL AND CEILING BETWEEN HOUSE AND GARAGE. WALL INSULATION = RSI. 3.87 (R22) BATTs+ RSI. 0.88 (R5) CONTINUOUS RIGID INSUL. CEILING INSUL.= RSI. 5.46 (R31). TAPE AND SEAL ALL JOINTS AIRTIGHT PER O.B.C. 9.10.9.16.

20. **DOOR AND FRAME GASPROOFED. DOOR EQUIPPED WITH SELF CLOSING DEVICE AND WEATHERSTRIPPING PER OBC 9.10.13.15.**

21. **EXTERIOR STEP**
PRECAST CONCRETE STEP OR WOOD STEP WHERE NOT EXPOSED TO WEATHER. MAX. RISE 200mm (7-7/8") MIN. TREAD 250mm (9-1/2"). SEE OBC. 9.8.9.2, 9.8.9.3. & 9.8.10.

22. **DRYER VENT (OBC-6.2.3.8(7), 6.2.4.1.1 & 6.2.4.1.1)**
CAPPED DRYER EXHAUST VENTED TO EXTERIOR. (USE 100mm (4") DIA. SMOOTH WALL VENT PIPE).

23. **INSULATED ATTIC ACCESS (OBC-9.19.2.1)**
ATTIC ACCESS HATCH WITH MIN. DIMENSION OF 545x700mm (21'-1/2"x27'-1/2") & A MIN. AREA OF 0.32 SQ.M. (3.44 SQ.FT.) WITH WEATHERSTRIPPING. RSI 3.52 (R20) RIGID INSULATION BACKING.

24. **FIREPLACE CHIMNEYS - OBC. 9.21.-**
TOP OF FIREPLACE CHIMNEY SHALL BE 915mm (3'-0") ABOVE THE HIGHEST POINT AT WHICH IT COMES IN CONTACT WITH THE ROOF AND 610mm (2'-0") ABOVE THE ROOF SURFACE WITHIN A HORIZ. DISTANCE OF 3050mm (10'-0") FROM THE CHIMNEY.

25. **UNFIN. CLOSETS**
4 SHELVES MIN. 350mm (14") DEEP.

26. **MECHANICAL EXHAUST**
MECHANICAL EXHAUST FAN, VENTED TO EXTERIOR AS REQUIRED BY OBC. 9.32.3.5. & 9.32.3.10.

27. **STEEL BEARING PLATE FOR MASONRY WALLS**
280x280x16 (11"x11"x5/8") STL. PLATE FOR STL BEAMS AND 280x280x12 (11"x11"x1/2") STL. PLATE FOR WOOD BEAMS BEARING ON CONC. BLOCK PARTYWALL, ANCHORED WITH 2-19mm (3/4") x 200mm (8") LONG GALV. ANCHORS WITHIN SOLID BLOCK COURSE. LEVEL WITH NON-SHRINK GROUT.

- 27A. **SOLID WOOD BEARING FOR WOOD STUD WALLS**
SOLID BEARING TO BE AT LEAST AS WIDE AS THE SUPPORTED MEMBER. SOLID WOOD BEARING COMPRISED OF BUILT-UP WOOD STUDS TO BE CONSTRUCTED IN ACCORDANCE WITH OBC 9.17.4.2(2).

28. **CLASS "B" VENT**
U.L.C. RATED CLASS "B" VENT 610mm (2'-0") ABOVE THE POINT IN CONTACT WITH THE ROOF FOR SLOPES UP TO 9/12, REFER TO THE ONTARIO GAS UTILIZATION CODE.

29. **BASEMENT WOOD POST (OBC 9.17.4.)**
3-38x140 (3-2"x6") BUILT-UP-POST ON METAL BASE SHOE ANCHORED TO CONC. WITH 12.7 DIA. BOLT, 406x406x203 (16"x16"x8") CONC. FTG. OR AS OTHERWISE SPECIFIED ON DRAWING.

30. **STEPPED FOOTINGS (OBC 9.15.3.9.)**
MIN. HORIZ. STEP = 600mm (24"). MAX. VERT. STEP = 600mm (24").

31. **SLAB ON GRADE**
MIN. 100mm (4") CONCRETE SLAB ON GRADE ON 100mm (4") COARSE GRANULAR FILL. REINFORCED WITH 6x6-W2.9xW2.9 MESH PLACED NEAR MID-DEPTH OF SLAB. CONC. STRENGTH 32 MPa (4640 psi) WITH 5-8% AIR ENTRAINMENT ON COMPACTED SUB-GRADE. UNDER SLAB INSULATION AS PER B.O.P. FORM where required. ALL JOINTS & PENETRATIONS OF INTERIOR SLABS TO BE SEALED TO MAINTAIN AIR BARRIER.

32. **EXPOSED FLOOR TO EXTERIOR (REFER TO B.O.P. FORM)**
PROVIDE RSI 5.46 (R31) INSULATION, APPROVED VAPOUR BARRIER AND CONTINUOUS AIR BARRIER, FINISHED SOFFIT.

33. **PARTYWALLS**
TYPICAL 1 HOUR RATED PARTYWALL. REFER TO DETAILS FOR TYPE AND SPECIFICATIONS.

34. **EXTERIOR WALLS FOR WALK-OUT CONDITIONS**
THE EXTERIOR BASEMENT STUD WALL TO BE 38x140 (2"x6") STUDS @ 406mm (16") O.C. OR 38x89 (2"x4") STUDS @ 305mm (12") O.C. WALL INSULATION TO BE SAME AS STANDARD ABOVE GRADE WOOD STUD WALLS (R20+R5).

32. **DIRECT VENTING GAS FURNACE VENT**
DIRECT VENT FURNACE TERMINAL MIN. 900mm (36") FROM A GAS REGULATOR. MIN. 300mm (12") ABOVE FIN. GRADE, FROM ALL OPENINGS, EXHAUST AND INTAKE VENTS. HRV INTAKE TO BE A MIN. OF 1830mm (6'-0") FROM ALL EXHAUST TERMINALS. REFER TO GAS UTILIZATION CODE.

33. **DIRECT VENTING GAS FIREPLACE VENT**
DIRECT VENT GAS FIREPLACE, VENT TO BE A MINIMUM 300mm (12") FROM ANY OPENING AND ABOVE FIN. GRADE. REFER TO GAS UTILIZATION CODE.

34. **JOIST STRAPPING AND BRIDGING (SEE OBC. 9.23.9.4)**
ALL CONVENTIONAL FRAMED FLOOR JOISTS WITH SPANS OVER 2100mm (6'-11") TO BE BRIDGED WITH 38x38 (2"x2") CROSS BRACING OR SOLID BLOCKING @ 2100mm (6'-11") O.C. MAX. AND WHERE SPECIFIED BY JOIST TABLES A-1 OR A-2 STRAPPING SHALL BE 19x64 (1"x3") @ 2100mm (6'-11") O.C. UNLESS A PANEL TYPE CEILING FINISH IS APPLIED. (* SEE OBC 9.23.9.4. *) REFER TO FLOOR LAYOUTS FOR ENGINEERED FLOOR JOISTS.

35. **EXPOSED BUILDING FACE - OBC. 9.10.15.**
EXTERIOR WALLS TO HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 45 min. WHERE LIMITING DISTANCE (LD) IS LESS THAN 1.2M (3'-11"). WHERE THE LD IS LESS THAN 600mm (1'-11") THE EXPOSING FACE SHALL BE CLAD IN NON-COMBUSTIBLE MATERIAL. SEE ELEVATIONS FOR ADDITIONAL NOTES.

36. **COLD CELLAR PORCH SLAB (OBC 9.39.)**
FOR MAX. 2500 mm (8'-2") PORCH DEPTH (SHORTEST DIM.), 125mm (4 7/8") 32MPa (4640psi) CONC. SLAB WITH 5-8% AIR ENTRAINMENT. REINF. WITH 10M BARS @ 200mm (7 7/8") O.C. EACH WAY IN BOTTOM THIRD OF SLAB, 600x600 (23 5/8"x 23 5/8") 10M DOWELS @ 600mm (23 5/8") O.C., ANCHORED IN PERIMETER FDTN. WALLS. SLOPE SLAB MIN. 1.0% FROM DOOR. SLAB TO HAVE MIN 75mm (3") BEARING ON FDTN. WALLS. PROVIDE (WL1) UNLETS OVER CELLAR DOOR AND WITH 100mm (4") END BEARING.

37. **FOUNDATION LEDGE FOR BRICK/MASONRY**
THE FDTN. WALL SHALL NOT BE REDUCED TO LESS THAN 90mm (3-1/2") THICK TO A MAX. DEPTH OF 660mm (26") AND SHALL BE TIED TO THE FACING MATERIAL WITH METAL TIES SPACED 200mm (8") O.C. VERTICALLY AND 900mm (36") O.C. HORIZONTALLY. FILL SPACE BETWEEN WALL AND FACING SOLID WITH MORTAR.

38. **CONVENTIONAL ROOF FRAMING (2.0KPa SNOW LOAD)**
38x140 (2"x6") RAFTERS @ 406mm (16") O.C. FOR MAX 11'-7" SPAN, 38x184 (2"x8") RIDGE BOARD, 38x89 (2"x4") COLLAR TIES AT MIDSPANS. CEILING JOISTS TO BE 38x89 (2"x4") @ 406mm (16") O.C. FOR MAX. 2830mm (9'-3") SPAN & 38x140 (2"x6") @ 406 (16") O.C. FOR MAX. 4450mm (14'-7") SPAN.

39. **TWO STOREY VOLUME SPACES**
-FOR A MAXIMUM 5490 mm (18'-0") HEIGHT AND MAXIMUM SUPPORTED ROOF TRUSS LENGTH OF 6.0m, PROVIDE 2-38x140 (2-2"x6") SPR #2 CONTIN. STUDS @ 305mm (12") O.C. (TRIPLE UP AT EVERY THIRD DOUBLE STUD FOR BRICK WALLS) C/W 9.6 (3/8") THICK EXT. PLYWOOD SHEATHING. PROVIDE SOLID WOOD BLOCKING BETWEEN WOOD STUDS @ 1220 mm (4'-0") O.C. VERTICALLY. -FOR WALLS WITH HORIZ. DISTANCES NOT EXCEEDING 2900 mm (9'-6"), PROVIDE 38x140 (2"x6") STUDS @ 406 (16") O.C. WITH CONTINUOUS 2-38x140 (2-2"x6") TOP PLATES + 1-38x140 (1-2"x6") BOTTOM PLATE & MINIMUM OF 3-38x184 (3-2"x8") CONT. HEADER AT GRND. CEILING LEVEL TOE-NAILED & GLUED AT TOP, BOTTOM PLATES AND HEADERS.

40. **EXPOSED FLOOR TO EXTERIOR (REFER TO B.O.P. FORM)**
PROVIDE RSI 5.46 (R31) INSULATION, APPROVED VAPOUR BARRIER AND CONTINUOUS AIR BARRIER, FINISHED SOFFIT.

41. **PARTYWALLS**
TYPICAL 1 HOUR RATED PARTYWALL. REFER TO DETAILS FOR TYPE AND SPECIFICATIONS.

42. **EXTERIOR WALLS FOR WALK-OUT CONDITIONS**
THE EXTERIOR BASEMENT STUD WALL TO BE 38x140 (2"x6") STUDS @ 406mm (16") O.C. OR 38x89 (2"x4") STUDS @ 305mm (12") O.C. WALL INSULATION TO BE SAME AS STANDARD ABOVE GRADE WOOD STUD WALLS (R20+R5).

WINDOWS- CANADA ZONE C

- 1) **MINIMUM BEDROOM WINDOW - OBC. 9.9.10.1-**
AT LEAST ONE BEDROOM WINDOW ON A GIVEN FLOOR IS TO HAVE MIN. 0.35m² UNOBSTRUCTED GLAZED OR OPENABLE AREA WITH MIN. CLEAR WIDTH OF 380 mm (1'-3").
GLASS AREA NOT MORE THAN 17% OF GROSS PERIPHERAL WALL AREA. MAXIMUM U-VALUE 1.67 & MIN ER-VALUE 29
- 2) **WINDOW GUARDS - OBC. 9.8.8.1(6)**
A GUARD IS REQUIRED WHERE THE TOP OF THE WINDOW SILL IS LOCATED LESS THAN 480mm (1'-7") ABOVE FIN. FLOOR AND THE DISTANCE FROM THE FIN. FLOOR TO THE ADJACENT GRADE IS GREATER THAN 1800mm (5'-11")
- 3) **WINDOW WELLS - OBC. 9.14.6.3.**
ALL WINDOW WELLS TO DRAIN TO FOOTING LEVEL PER OBC 9.14.6.3. CHECK WITH THE LOCAL AUTHORITY.

DOORS:

- 1) **EXTERIOR DOORS-- THERMAL RESISTANCE**
ALL EXTERIOR DOORS TO COMPLY WITH THERMAL RESISTANCE AS STATED IN B.O.P. FORM
- 2) **EXTERIOR SLIDING GLASS DOORS-- THERMAL RESISTANCE**
ALL EXTERIOR SLIDING GLASS DOORS TO COMPLY WITH THERMAL PERFORMANCE AS STATED IN B.O.P. FORM.

GENERAL:

- 1) MECHANICAL VENTILATION IS REQUIRED TO PROVIDE 0.3 AIR CHANGES PER HOUR AVERAGED OVER 24 HOURS. SEE MECHANICAL DRAWINGS.
- 2) ALL DOWNSPOUTS TO DRAIN AWAY FROM THE BUILDING AS PER OBC 9.26.18.2. AND MUNICIPAL STANDARDS.
- 3) **STUD WALL REINFORCEMENT FOR FUTURE GRAB BARS IN MAIN BATHROOM**
REINFORCEMENT OF STUD WALL SHALL BE INSTALLED ADJACENT TO WATER CLOSETS AND SHOWER OR BATHTUB IN MAIN BATHROOM. REFER TO OBC. 9.5.2.3, 3.8.3.8.1(d) & 3.8.3.13.1(i)(i).

4) **AIR BARRIERS**

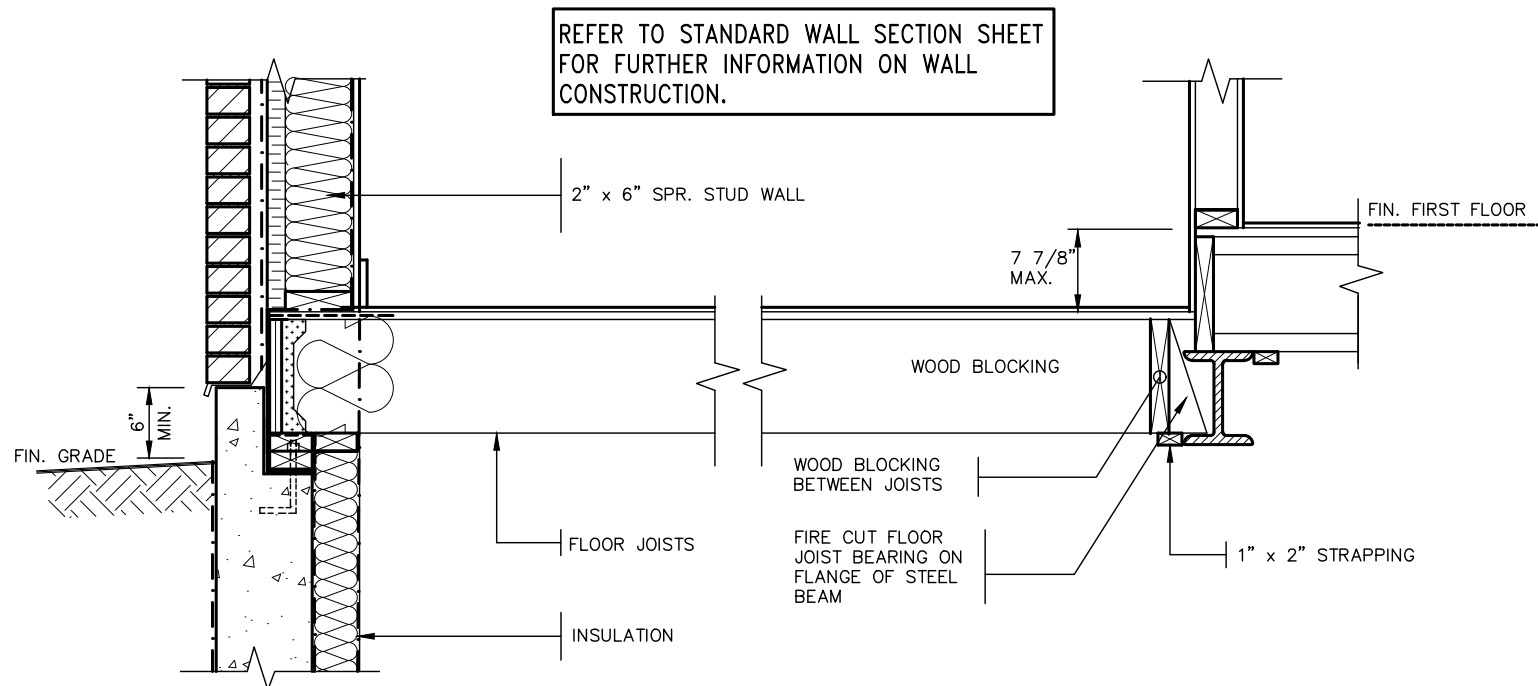
ALL AIR BARRIER SYSTEMS TO COMPLY WITH O.B.C.-DIV. B, 9.25.3.

LUMBER:

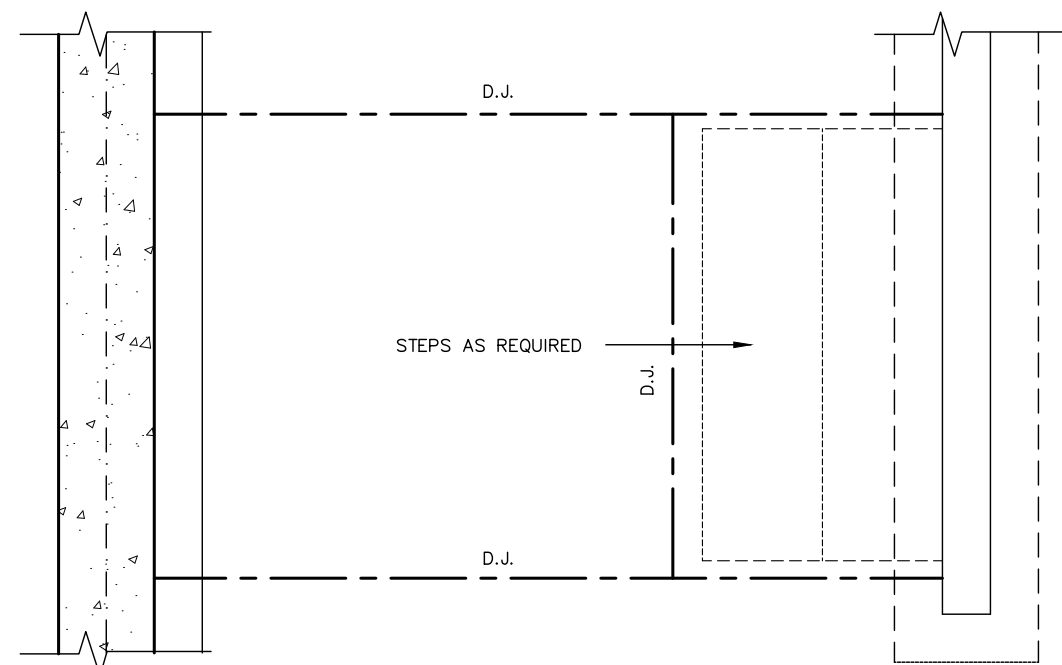
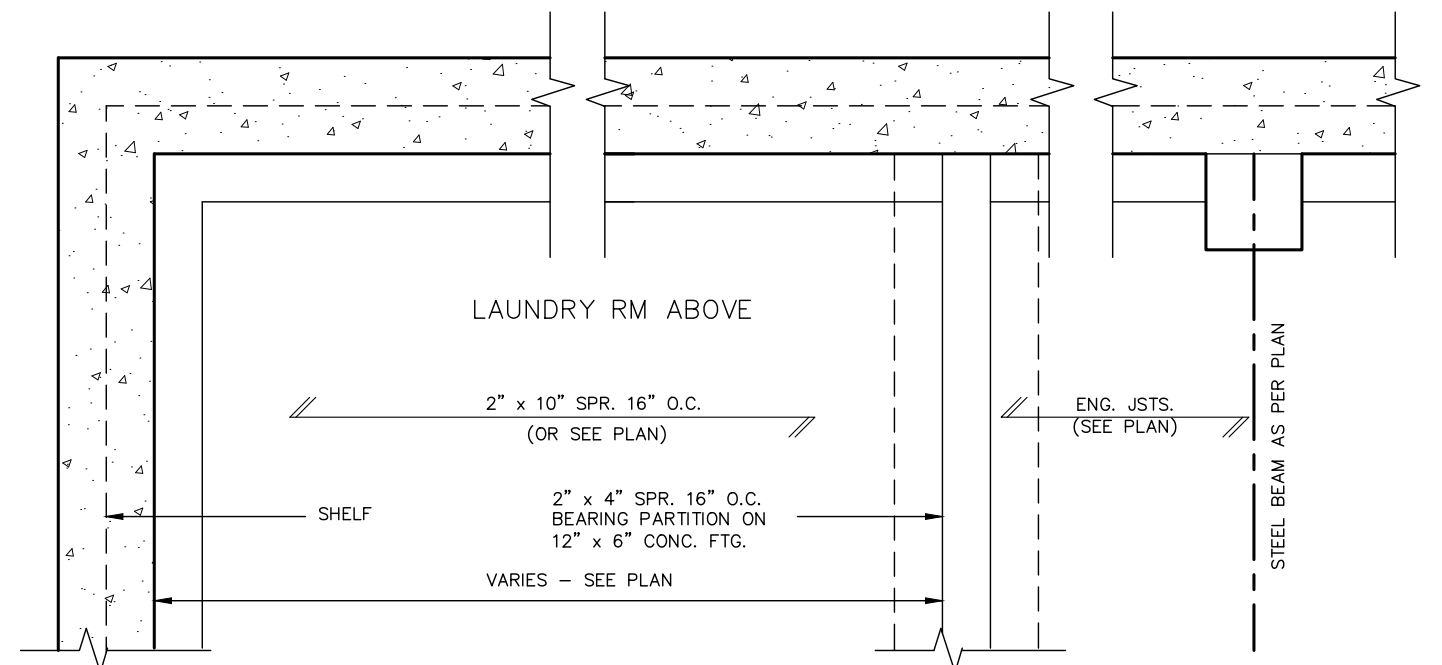
- 1) ALL LUMBER SHALL BE SPRUCE NO.2 GRADE, UNLESS NOTED OTHERWISE.
- 2) LUMBER EXPOSED TO THE EXTERIOR TO BE SPRUCE NO.2 GRADE PRESSURE TREATED OR CEDAR, UNLESS NOTED OTHERWISE.
- 3) ALL LAMINATED VENEER LUMBER (LVL) BEAMS, GIRDER TRUSSES, AND METAL HANGER CONNECTIONS SUPPORTING ROOF FRAMING TO BE DESIGNED & CERTIFIED BY ROOF TRUSS MANUFACTURER.
- 4) LVL BEAMS NOT SPECIFIED ON ENGINEERED FLOOR OR ROOF LAYOUTS SHALL BE VERSALAM 2.0C. OR EQUAL. NAIL EACH PLY OF LVL WITH 89mm (3 1/2") LONG COMMON WIRE NAILS @ 300mm (12") O.C. STAGGERED IN 2 ROWS FOR 184x240 & 300mm (7 1/4" 9 1/2", 11 7/8") DEPTHS AND STAGGERED IN 3 ROWS FOR GREATER DEPTHS AND FOR 4 PLY MEMBERS ADD 13mm (1/2") DIA. GALV. BOLTS BOLTED AT MID-DEPTH OF BEAM @ 915mm (3'-0") O.C.
- 5) PROVIDE FACE MOUNT BEAM HANGERS TYPE "SQL" MANUFACTURED BY SIMPSON STRONG-TIE OR EQUAL FOR ALL LVL BEAM TO BEAM CONNECTIONS UNLESS OTHERWISE NOTED. REFER TO ENGINEERED FLOOR LAYOUTS.
- 6) JOIST HANGERS: PROVIDE METAL HANGERS FOR ALL JOISTS AND BUILT-UP WOOD MEMBERS INTERSECTING FLUSH BUILT-UP WOOD MEMBERS.
- 7) WOOD FRAMING NOT TREATED WITH A WOOD PRESERVATIVE, IN CONTACT WITH CONCRETE, SHALL BE SEPARATED FROM THE CONCRETE BY AT LEAST 2 mil. POLYETHYLENE FILM, No. 50 (45lbs). ROLL ROOFING OR OTHER DAMPROOFING MATERIAL, EXCEPT WHERE THE WOOD MEMBER IS AT LEAST 150mm (6") ABOVE THE GROUND.

STEEL:

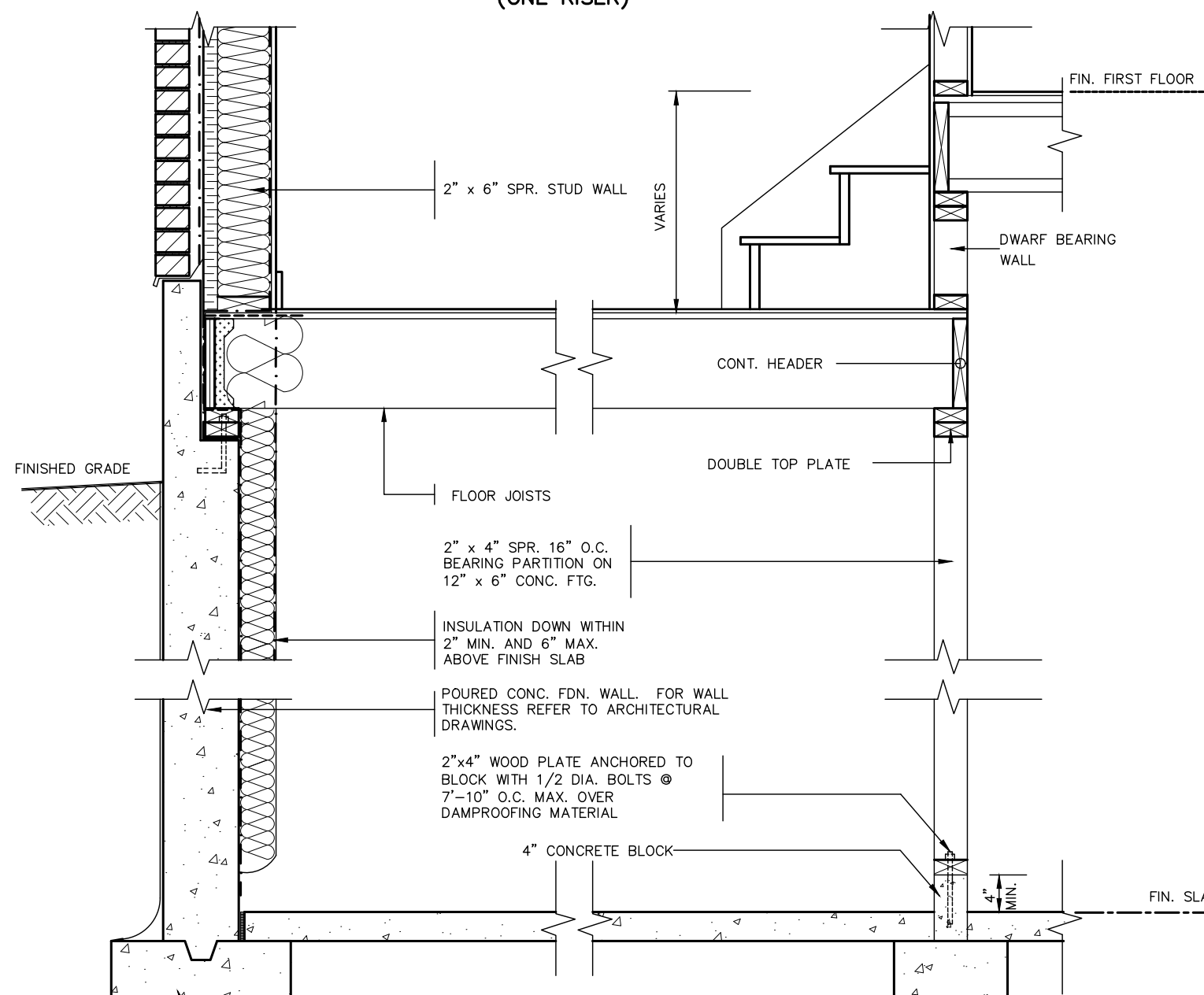
- 1) STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA-G40.21 GRADE 350W. "STRUCTURAL QUALITY". PER OBC. B-9.23.4



DETAIL OF SUNKEN LAUNDRY/ENTRY
(ONE RISER)



PARTIAL FOUNDATION PLAN



DETAIL OF SUNKEN LAUNDRY/ENTRY
(MORE THAN ONE RISER)



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			



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2012 CODE
ENERGY STAR

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2	INSUL VALUES ADJUSTED PER ESTAR V17	JAN 31/19	GW
1	ISSUED FOR PERMIT.	JAN. 26/18	GW
no.	description	date	by

The undersigned has reviewed and takes responsibility for this design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.

qualification information

Richard Vink 24488

name registration information BCIN

VA3 Design Inc. 42658

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VA3
DESIGN

255 Consumers Rd Suite 120
Toronto, ON M2J 1R4
t 416.630.2255 f 416.630.4782
va3design.com

Greenpark

project name TRINAR HALL HOMES INC. municipality EAST GWILLIMBURY

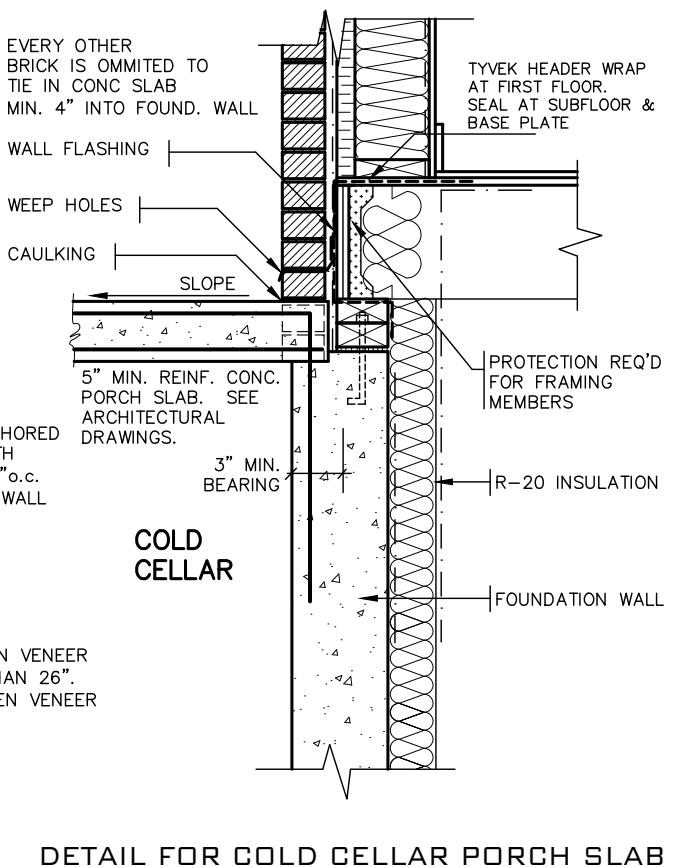
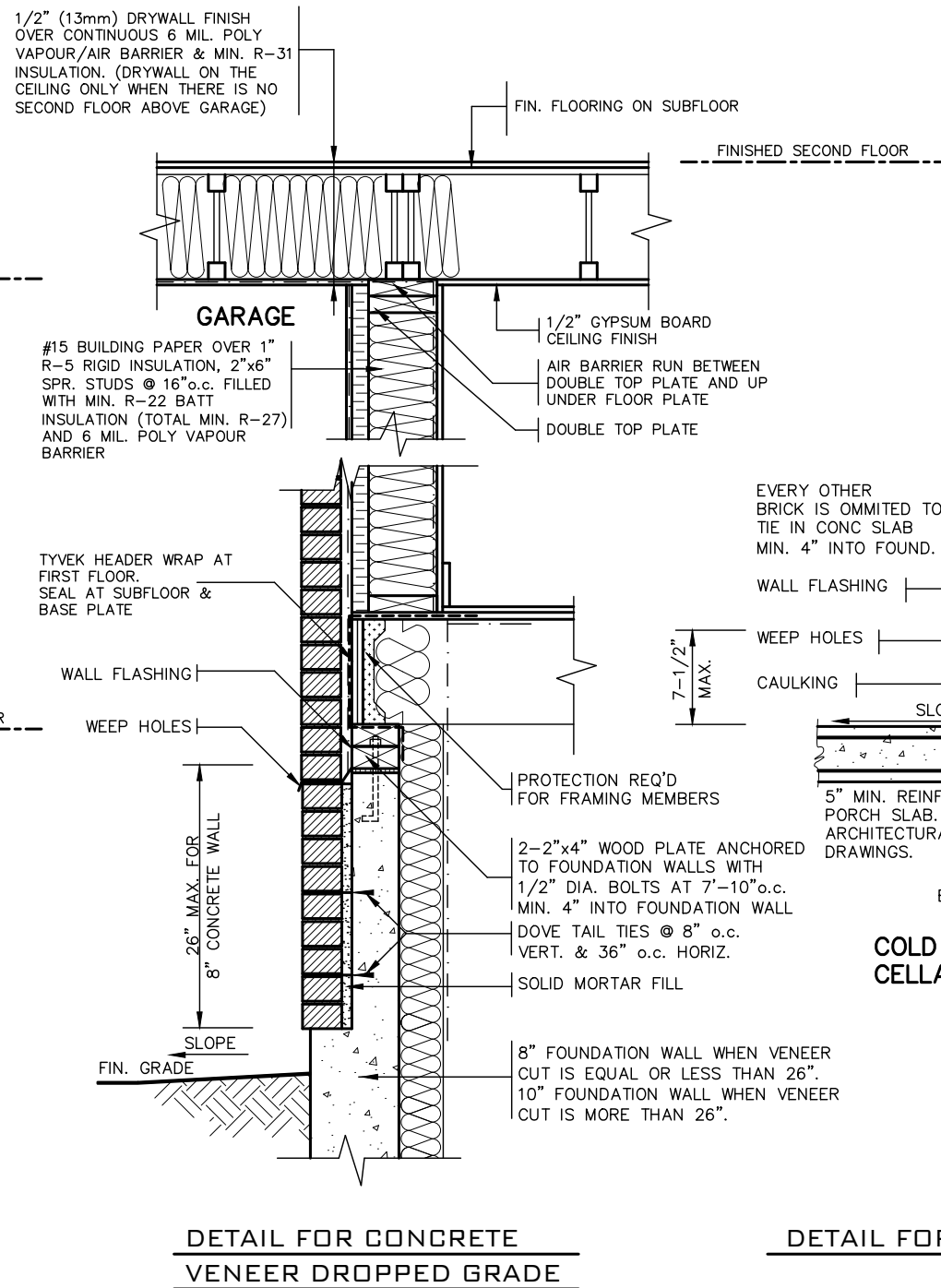
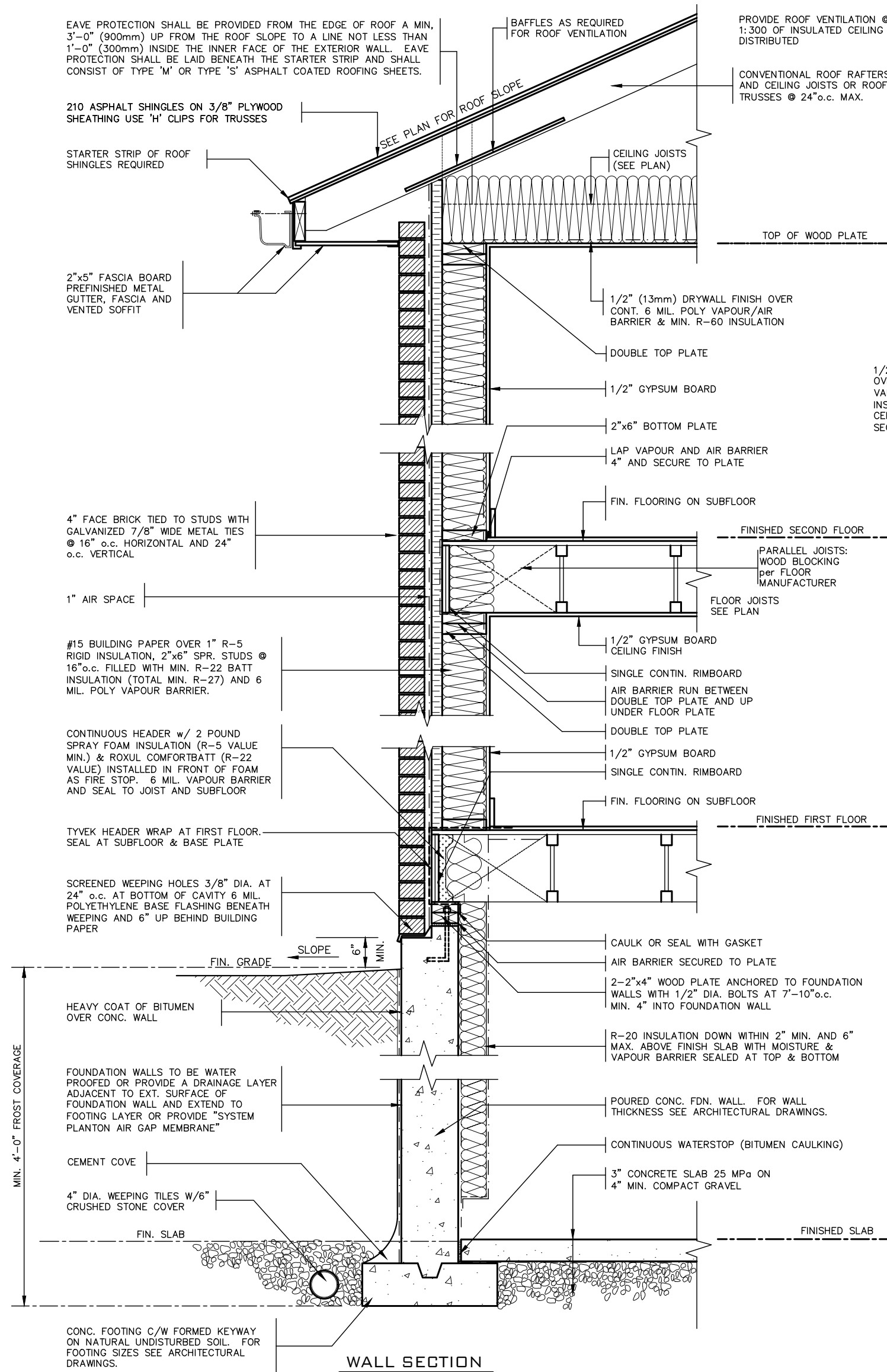
project no. 17026

date OCT. 2017 SUNKEN FLOOR DETAILS

drawn by GW checked by Not to Scale scale 17026-GP-STD_DETAILS_ES17

file name GREG - H:\ARCHIVE\WORKING\2017\17026.GRE\DETAILS\17026-GP-STD_DETAILS_ES17.dwg - Thu - Feb 14 2019 - 4:51 PM

drawing no. 2



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Greenpark

project name	TRINAR HALL HOMES INC.	municipality	EAST GWILLIMBURY	project no.	17026
date	OCT. 2017	checked by	scale	2"x6" BRICK VENEER SECTIONS	drawing no.
drawn by	GW	checked by	Not to Scale	17026-GP-STD_DETAILS_ES17	3
GREG - H:\ARCHIVE\WORKING\2017\17026\GRE\DETAILS\17026-GP-STD_DETAILS_ES17.dwg - Thu - Feb 14 2019 - 4:51 PM					

EAVE PROTECTION SHALL BE PROVIDED FROM THE EDGE OF ROOF A MIN. 3'-0" (900mm) UP FROM THE ROOF SLOPE TO A LINE NOT LESS THAN 1'-0" (300mm) INSIDE THE INNER FACE OF THE EXTERIOR WALL. EAVE PROTECTION SHALL BE LAID BENEATH THE STARTER STRIP AND SHALL CONSIST OF TYPE 'M' OR TYPE 'S' ASPHALT COATED ROOFING SHEETS.

210 ASPHALT SHINGLES ON 3/8" PLYWOOD SHEATHING USE 'H' CLIPS FOR TRUSSES

STARTER STRIP OF ROOF SHINGLES REQUIRED

2"x5" FASCIA BOARD PREFINISHED METAL GUTTER, FASCIA AND VENTED SOFFIT

1 1/2"x6" RAISED STUCCO FRIEZE BOARD (TYP.)

MESH BACKWRAPPED

- FIN. COAT OF EXTERIOR ACRYLIC STUCCO
- FIBER MESH EMBEDDED IN PREP COAT
- INSULATION BOARD, (MIN. R5) W/ GEOMETRICALLY DEFINED DRAINAGE CAVITY HAVING A MIN. CAVITY DEPTH OF 1/4"
- AIR/MOISTURE BARRIER
- 7/16" EXTERIOR GRADE OSB SHEATHING
- 2" x 6" STUDS
- MIN. R-22 BATT INSULATION
- CONT. VAPOUR / AIR BARRIER
- 1/2" DRYWALL

(EIFS APPROVED SYSTEM, ALL MATERIALS AND SYSTEMS SHALL CONFORM TO CAN/ULC-S716.1)

CONCRETE SILL
CONTINUOUS HEADER w/ 2 POUND SPRAY FOAM INSULATION (R-5 VALUE MIN.) & ROXUL COMFORTBATT (R-22 VALUE) INSTALLED IN FRONT OF FOAM AS FIRE STOP. 6 MIL. VAPOUR BARRIER AND SEAL TO JOIST AND SUBFLOOR

4" FACE BRICK TIED TO STUDS WITH GALVANIZED 7/8" WIDE METAL TIES @ 16" o.c. HORIZONTAL AND 24" o.c. VERTICAL

SCREENED WEEPING HOLES 3/8" DIA. AT 24" o.c. AT BOTTOM OF CAVITY 6 MIL. POLYETHYLENE BASE FLASHING BENEATH WEEPING AND 6" UP BEHIND BUILDING PAPER

HEAVY COAT OF BITUMEN OVER CONC. WALL

FOUNDATION WALLS TO BE WATER PROOFED OR PROVIDE A DRAINAGE LAYER ADJACENT TO EXT. SURFACE OF FOUNDATION WALL AND EXTEND TO FOOTING LAYER OR PROVIDE "SYSTEM PLANTON AIR GAP MEMBRANE"

CEMENT COVE

4" DIA. WEEPING TILES W/6" CRUSHED STONE COVER

FIN. SLAB

CONC. FOOTING C/W FORMED KEYWAY ON NATURAL UNDISTURBED SOIL. FOR FOOTING SIZES SEE ARCHITECTURAL DRAWINGS.

BAFFLES AS REQUIRED FOR ROOF VENTILATION

PROVIDE ROOF VENTILATION @ A RATE OF 1:300 OF INSULATED CEILING AREA UNIFORMLY DISTRIBUTED

ROOF TRUSSES @ 24"o.c. MAX. RAISED HEEL TO MATCH PLATE

TOP OF WOOD PLATE

1/2" (13mm) DRYWALL FINISH OVER CONT. 6 MIL. POLY VAPOUR/AIR BARRIER & MIN. R-60 INSULATION

DOUBLE TOP PLATE

1/2" GYPSUM BOARD

2"x6" BOTTOM PLATE

LAP VAPOUR AND AIR BARRIER 4" AND SECURE TO PLATE

FIN. FLOORING ON SUBFLOOR

FLOOR JOISTS SEE PLAN

1/2" GYPSUM BOARD CEILING FINISH

DOUBLE CONTIN. RIMBOARD

AIR BARRIER RUN BETWEEN DOUBLE TOP PLATE AND UP UNDER FLOOR PLATE

DOUBLE TOP PLATE

1/2" GYPSUM BOARD

DOUBLE CONTIN. RIMBOARD

FIN. FLOORING ON SUBFLOOR

CAULK OR SEAL WITH GASKET

AIR BARRIER SECURED TO PLATE

2"x4" WOOD PLATE ANCHORED TO FOUNDATION WALLS WITH 1/2" DIA. BOLTS AT 7'-10"o.c. MIN. 4" INTO FOUNDATION WALL

R-20 INSULATION DOWN WITHIN 2" MIN. AND 6" MAX. ABOVE FINISH SLAB WITH MOISTURE & VAPOR BARRIER SEALED AT TOP & BOTTOM

POURED CONC. FDN. WALL. FOR WALL THICKNESS SEE ARCHITECTURAL DRAWINGS.

CONTINUOUS WATERSTOP (BITUMEN CAULKING)

3" CONCRETE SLAB 25 MPa ON 4" MIN. COMPACT GRAVEL

FINISHED SLAB

WALL SECTION



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WOOD SHEATHING

AIR/MOISTURE BARRIER

FIBRE MESH EMBEDDED IN PREP COAT

INSULATION BOARD (R-5) MIN W/ GEOMETRICALLY DEFINED DRAINAGE CAVITY HAVING A MIN. CAVITY DEPTH OF 1/4"

STARTER MESH (BACKWRAPPED)

CAULK WITH BEAD VENT

FLASHING

CONCRETE SILL

MASONRY CLADDING AS PER ELEVATION

A. TERMINATION AT MASONRY CLADDING WITH SEALANT 1

1 1/2" = 1'0"

EVERY OTHER BRICK IS OMITTED TO TIE IN CONC SLAB MIN. 4" INTO FOUND. WALL

WALL FLASHING

WEEP HOLES

CAULKING

SLOPE

5" MIN. REINF. CONC. PORCH SLAB. SEE ARCHITECTURAL DRAWINGS.

3" MIN. BEARING

PROTECTION REQ'D FOR FRAMING MEMBERS

R-20 INSULATION FULL HEIGHT

FOUNDATION WALL

COLD CELLAR

8" FOUNDATION WALL WHEN VENEER CUT IS EQUAL OR LESS THAN 26".

10" FOUNDATION WALL WHEN VENEER CUT IS MORE THAN 26".

26" MAX. FOR 8" CONCRETE WALL

FIN. GRADE

WALL FLASHING

WEEP HOLES

PROTECTION REQ'D FOR FRAMING MEMBERS

2"x4" WOOD PLATE ANCHORED TO FOUNDATION WALLS WITH 1/2" DIA. BOLTS AT 7'-10"o.c. MIN. 4" INTO FOUNDATION WALL

DOVE TAIL TIES @ 8" o.c. VERT. & 36" o.c. HORIZ.

SOLID MORTAR FILL

8" FOUNDATION WALL WHEN VENEER CUT IS EQUAL OR LESS THAN 26".

10" FOUNDATION WALL WHEN VENEER CUT IS MORE THAN 26".

FIN. GRADE

WALL FLASHING

WEEP HOLES

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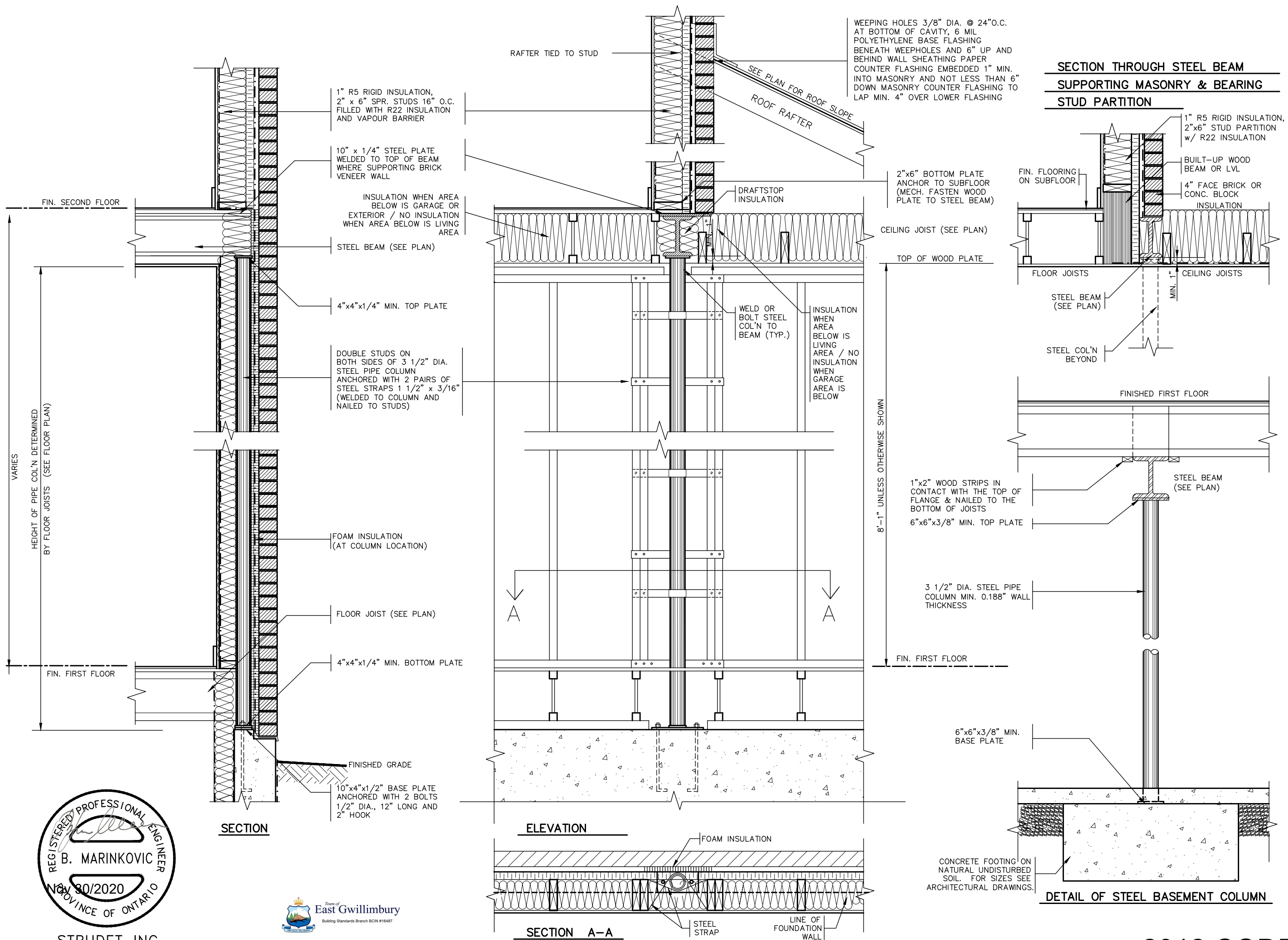
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As Shown
file name
17026-GP-STD_DETAILS_ES17
drawing no.
4

2012 CODE
ENERGY STAR

2" x 2" PICKETS CHAMFERED AT BOTTOM WITH 2" x 6" TOP CAP AND 2" x 4" TOP RAIL (REFER TO DETAIL 1)

3'-6" HIGH WOOD RAILING IF DECK FLOOR IS MORE THAN 5'-11" ABOVE GRADE AND 3'-0" HIGH WOOD RAILING IF DECK IS LESS THAN 5'-11" ABOVE GRADE

MAX. 4" OPENING BETWEEN PICKETS

5/4 x 6 PRESSURE TREATED DECKING WITH 1/4" GAP

WB1 RIM JOISTS (PRESSURE TREATED)

GUARDS FOR STAIRS SHALL NOT BE LESS THAN 2'-11" HIGH MEASURED VERTICALLY FROM A LINE DRAWN THROUGH THE OUTSIDE EDGES OF THE STAIR NOSINGS

4 7/8" MIN. 7 7/8" MAX. 9 1/4" MIN. 14" MAX.

2" x 4" WOOD BLOCKING @ 4'-0" O.C. MIN. BETWEEN STRINGERS

2" x 12" STRINGER

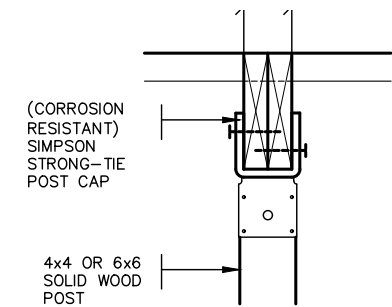
PRECAST CONCRETE SLAB

(CORROSION RESISTANT) SIMPSON STRONG-TIE COLUMN BASE. 1/2" DIA. ANCHOR BOLT.

12" CONC. PIER

WOOD DECK SECTION WITH BRICK VENEER

SCALE: 1/2" = 1'-0"



DETAIL 2 - BEAM-TO-POST
SCALE: 1" = 1'-0"

TYPICAL BRICK VENEER WALL CONSTRUCTION

1/2" Ø BOLTS @ 24" O/C ACROSS DECK ANCHORED TO HOUSE RIM BOARD

10" FOUNDATION WALL REQUIRED WHEN VENEER CUT IS GREATER THAN 26"

2-2x8 LEDGER BOARD (LEDGER BOARD PRESSURE TREATED)

BRICK MECH. FASTENED TO 4" CONC. FOUND. WALL WITH DOVE TAIL ANCHORS AND MORTAR FILL IN BETWEEN

DETAIL 3
STEEL ANGLE
SCALE: 1" = 1'-0"



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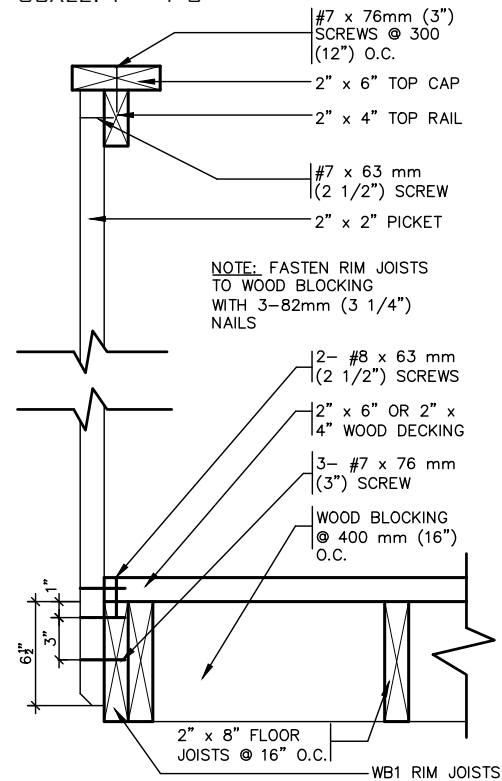
Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

DETAIL 1

CANTILEVERED PICKET SCREWED TO RIM JOIST AND DECK

GUARD PARALLEL TO FLOOR JOISTS

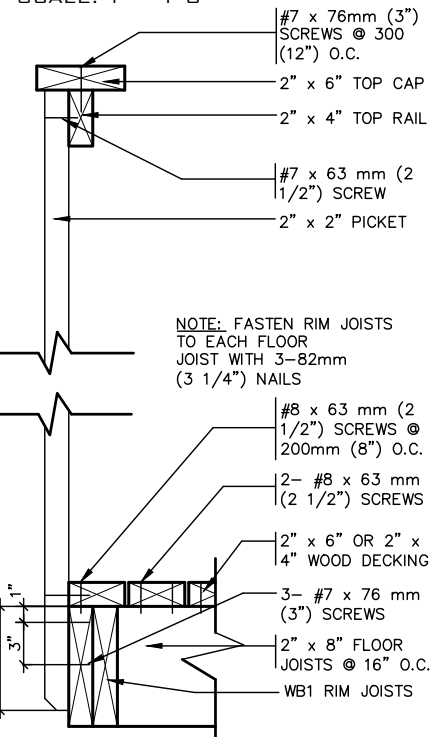
SCALE: 1" = 1'-0"



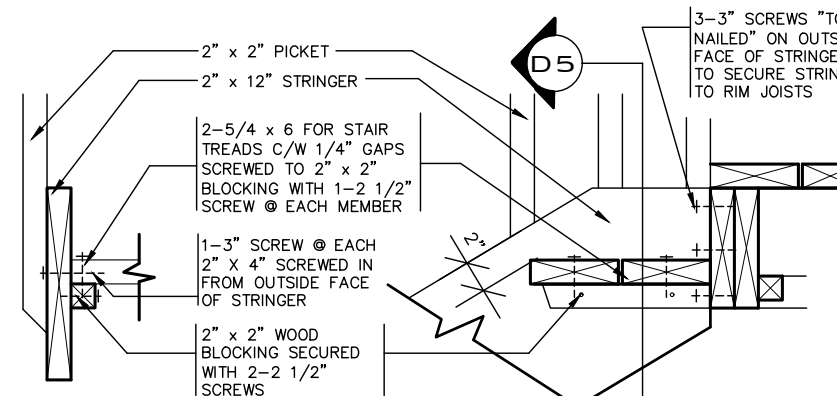
NOTE: FASTEN RIM JOISTS TO WOOD BLOCKING WITH 3-82mm (3 1/4") NAILS

GUARD PERPENDICULAR TO FLOOR JOISTS

SCALE: 1" = 1'-0"



NOTE: FASTEN RIM JOISTS TO EACH FLOOR JOIST WITH 3-82mm (3 1/4") NAILS



DETAIL 5
SECTION THROUGH STAIR STRINGER
SCALE: 1" = 1'-0"

DETAIL 4
SECTION @ TREAD AND STRINGER SECUREMENT
SCALE: 1" = 1'-0"

GENERAL NOTES

- BRICK TO BE COMPRESSIVE STRENGTH OF 15 mPA (2200 p.s.i.) MIN. UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
- MORTAR TO BE TYPE S WITH JOINT THICKNESS OF 10mm (3/8") MIN. AND 20mm (3/4") MAX.
- ALL NAILS AND SCREWS TO BE GALVANIZED.
- WB1 = 2- 2 x 8 (PRESSURE TREATED)
WB3 = 2- 2 x 10 (PRESSURE TREATED)
- WOOD FOR CANTILEVERED PICKETS SHALL BE DOUGLAS FIR-LARCH, SPRUCE-PINE-FIR, OR HEM-FIR SPECIES.



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2012 CODE ENERGY STAR

9	.	.	.	The undersigned has reviewed and takes responsibility for this design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.
8	.	.	.	qualification information
7	.	.	.	Richard Vink 24488
6	.	.	.	signature
5	.	.	.	name
4	.	.	.	registration information
3	.	.	.	VA3 Design Inc. 42658
2	INSUL VALUES ADJUSTED PER ESTAR V17	JAN 31/19	GW	Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the work. Drawings are not to be scaled.
1	ISSUED FOR PERMIT.	JAN. 26/18	GW	
no.	description	date	by	

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Toronto, ON M2J 1R4
t 416.630.2255 f 416.630.4782
va3design.com

Greenpark

project name
TRINAR HALL HOMES INC.

municipality
EAST GWILLIMBURY

project no.
17026

date
OCT. 2017

drawn by
GW

checked by
-

scale
As Shown

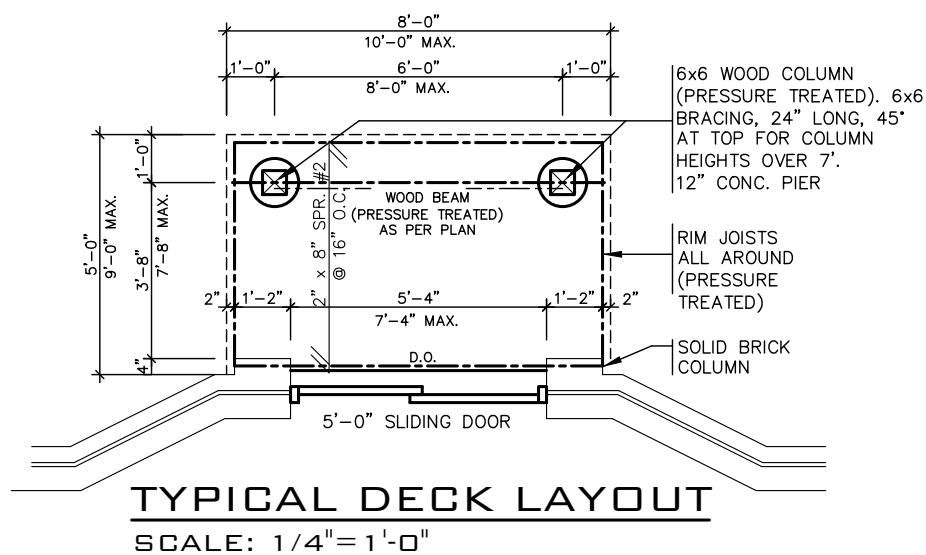
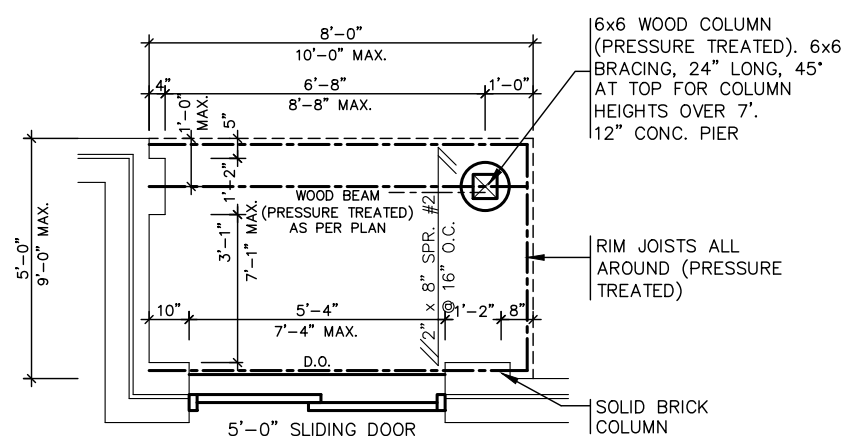
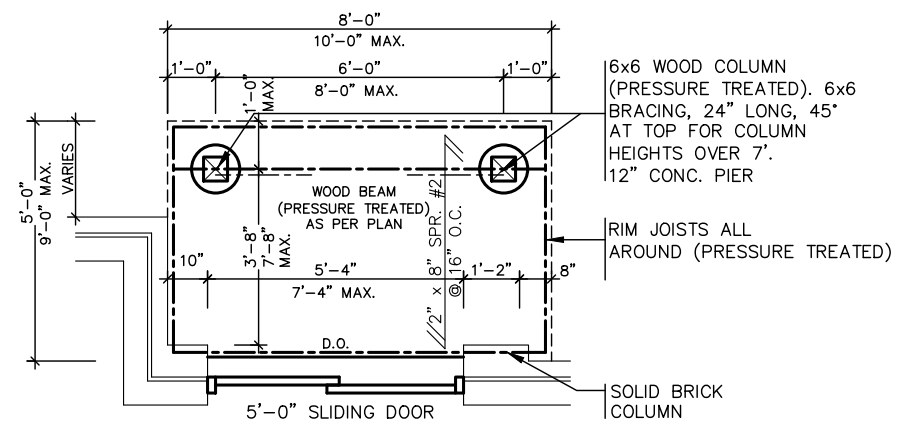
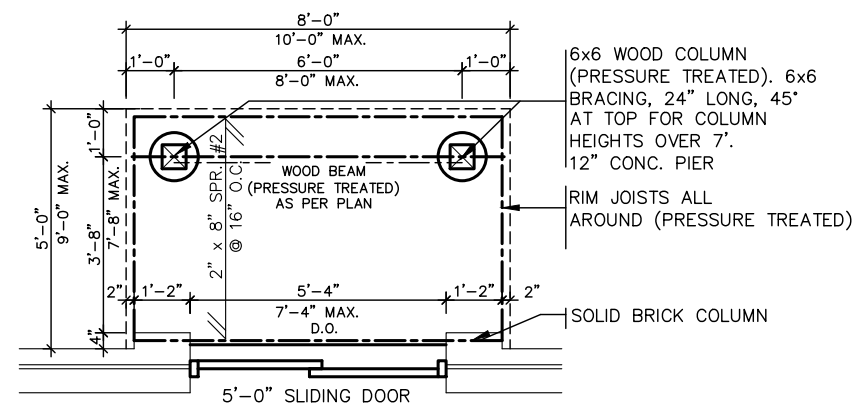
WOOD DECK DETAILS

file name
17026-GP-STD_DETAILS_ES17

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drawing no.
5

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

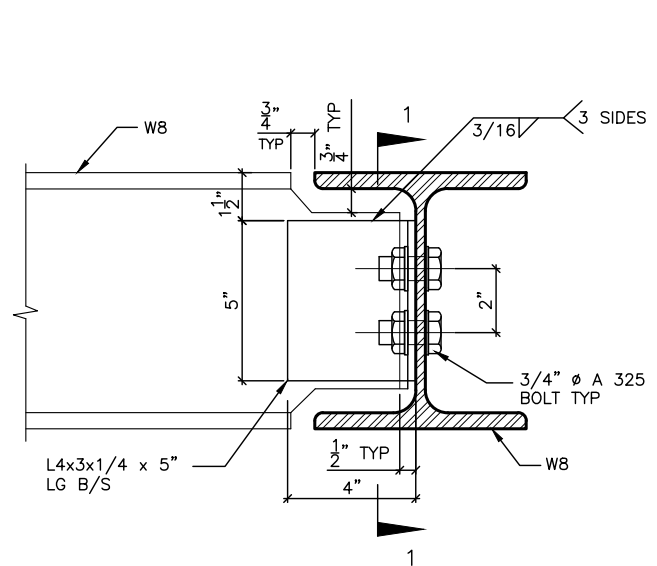
9	.	.	.	.	The undersigned has reviewed and takes responsibility for this design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.
8	.	.	.	.
7	.	.	.	.	qualification information
6	.	.	.	.	Richard Vink 2448
5	.	.	.	.	signature
4	.	.	.	.	name BCII
3	.	.	.	.	registration information
2	.	.	.	.	VA3 Design Inc. 42658
1	INSUL. VALUES ADJUSTED PER ESTAR V17	JAN 31/19	GW		Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the work. Drawings are not to be scaled.
no.	description	date	by		
1	ISSUED FOR PERMIT.	NOV. 10/17	GW		



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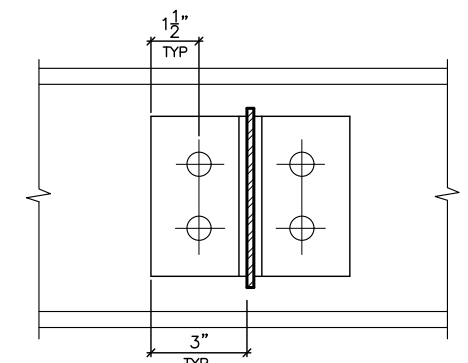


project name	municipality		project no.
TRINAR HALL HOMES INC.	EAST GWILLIMBURY		17026
date	WOOD DECK DETAILS-WALK-OUT CONDITION		drawing no.
OCT. 2017			5-4
drawn by	checked by	scale	file name
GW	-	As Shown	17026-GP-STD_DETAILS_ES17
GREG - H:\ARCHIVE\WORKING\17026\GREG\DETAILS\17026-GP-STD_DETAILS_ES17.dwg - Thu - Feb 14 2019 - 4:52 PM			

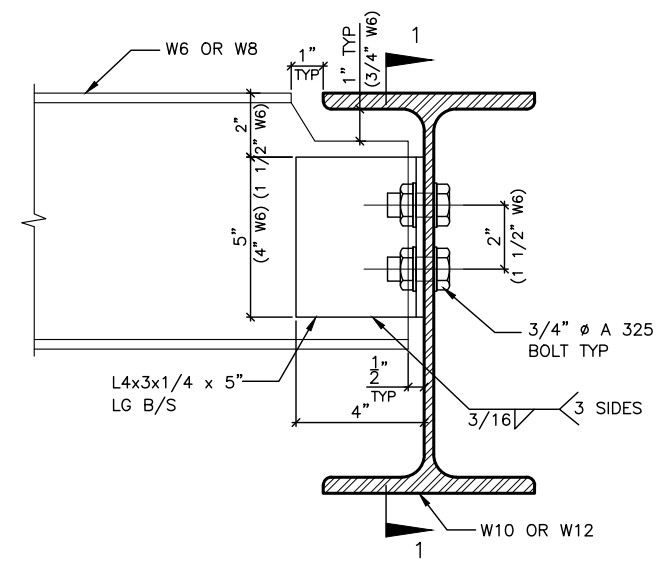


DETAIL 1.

W8
TO
W8
CONNECTION

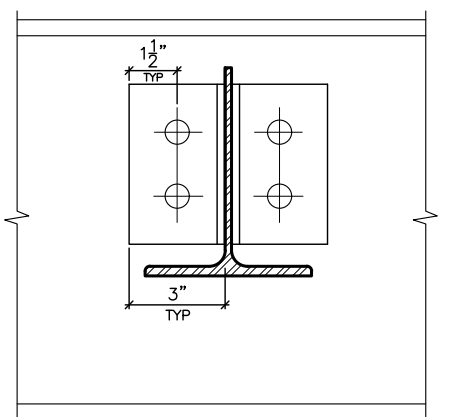


SECTION 1-1

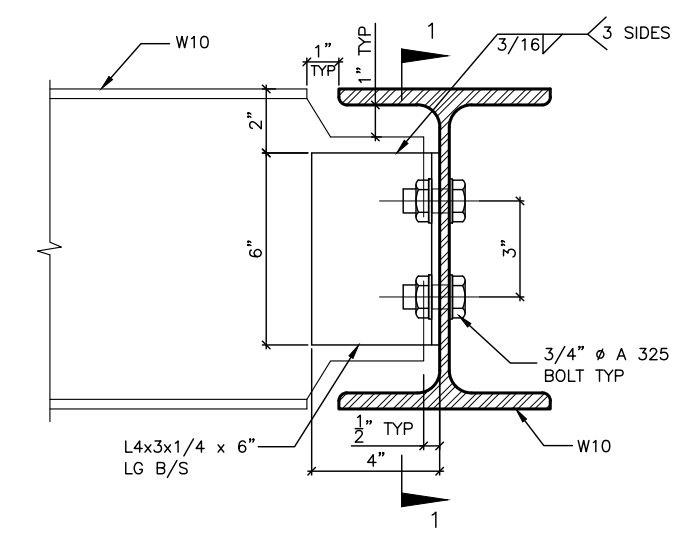


DETAIL 2.

W6(W8)
TO
W10(W12)
CONNECTION

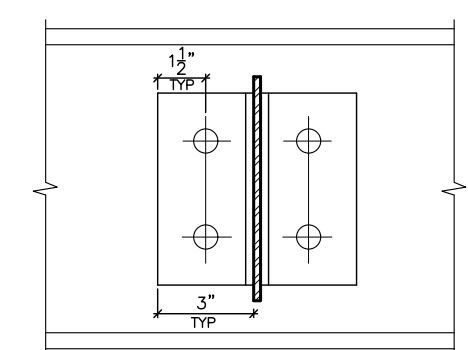


SECTION 1-1



DETAIL 3.

W10
TO
W10
CONNECTION

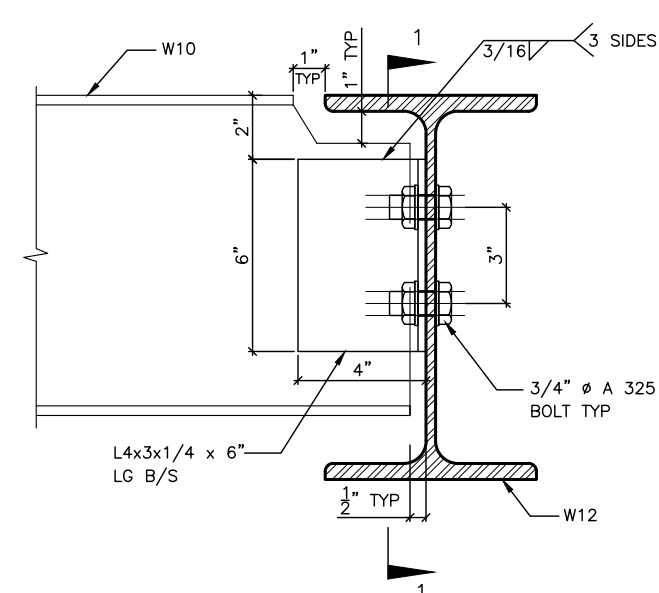


SECTION 1-1



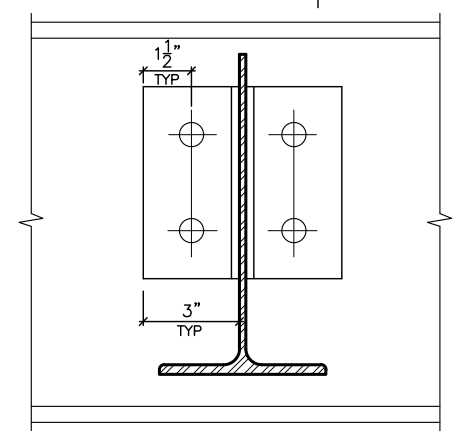
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Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

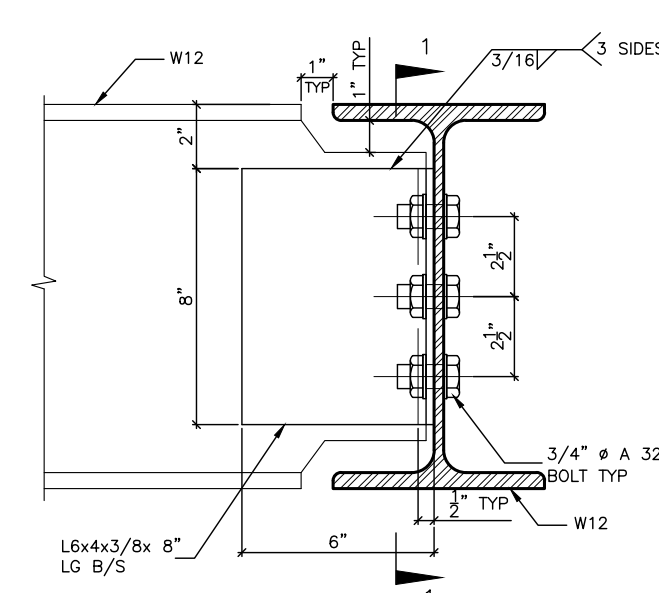


DETAIL 4.

W10
TO
W12
CONNECTION

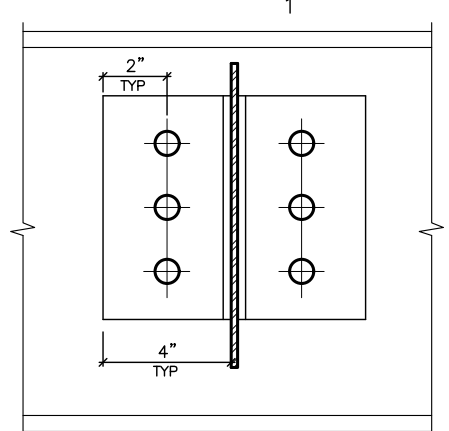


SECTION 1-1



DETAIL 5.

W12
TO
W12
CONNECTION



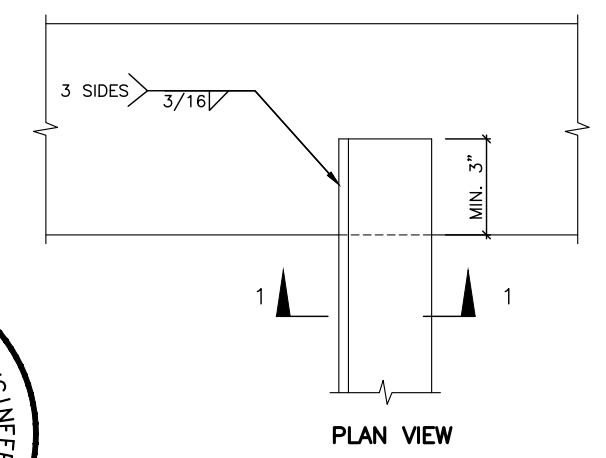
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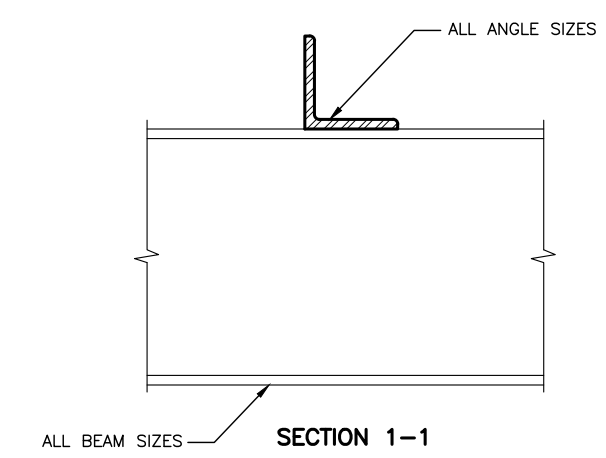
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DETAIL 6.

ANGLE
TO
BEAM
CONNECTION



PLAN VIEW



SECTION 1-1

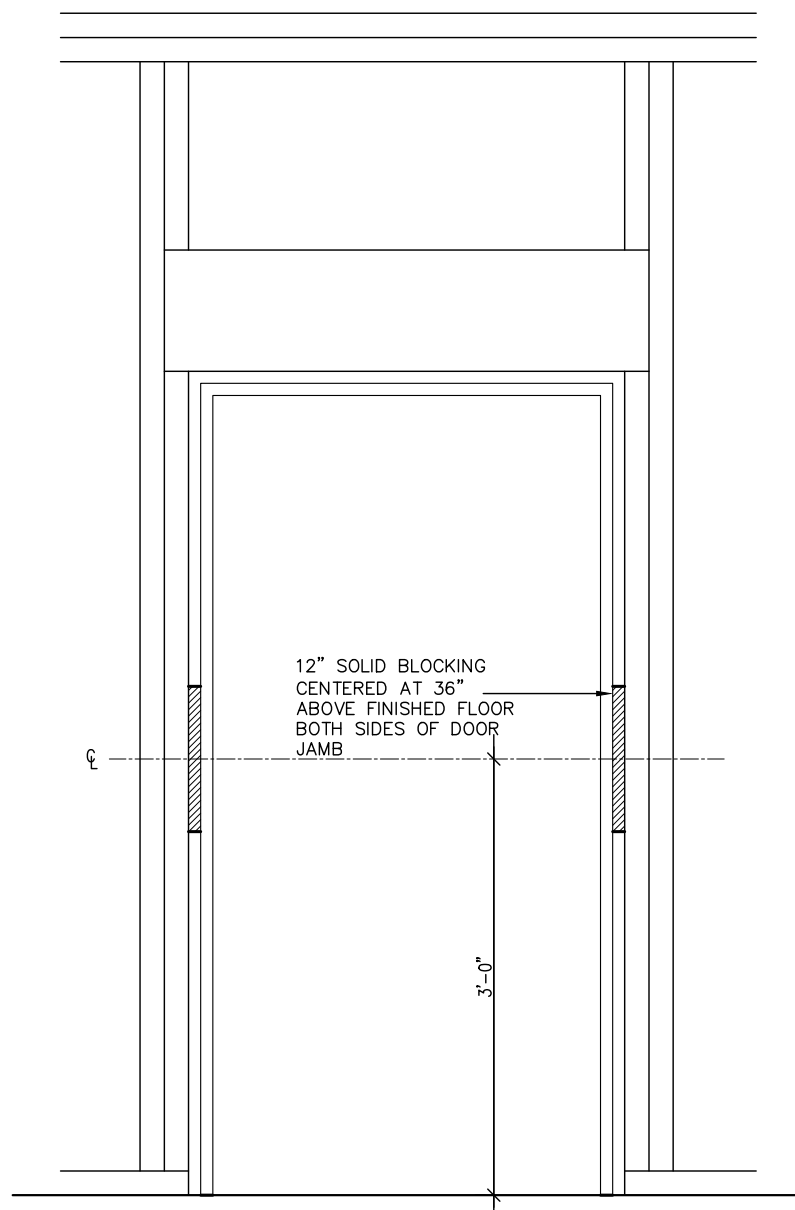
2012 CODE
ENERGY STAR

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2.	INSUL VALUES ADJUSTED PER ESTAR V17	JAN 31/19	GW		
1.	ISSUED FOR PERMIT.	JAN. 26/18	GW		
no.	description	date	by		

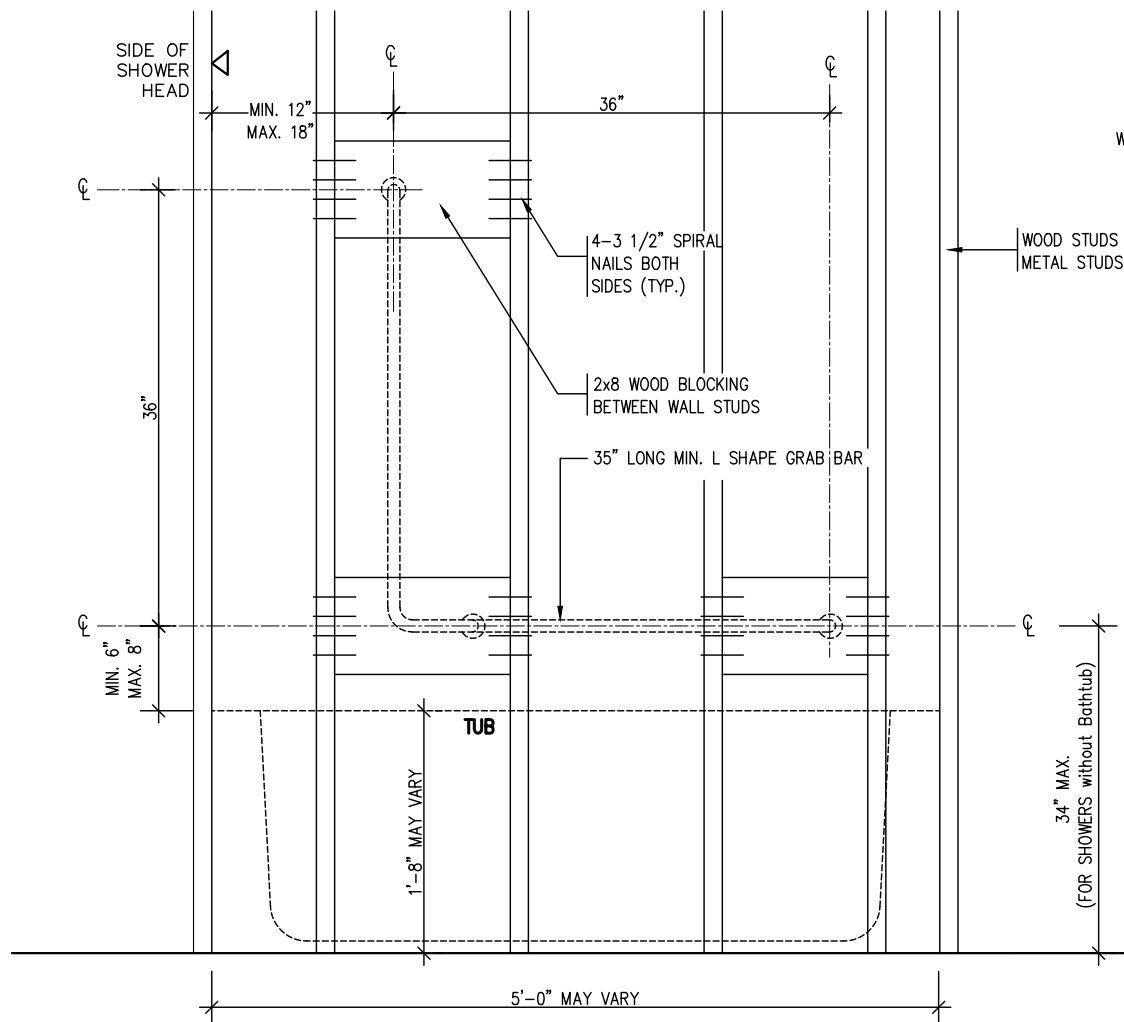
The undersigned has reviewed and takes responsibility for this design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.
qualification information
Richard Vink 24488
name
registration information
VA3 Design Inc. 42658
signature
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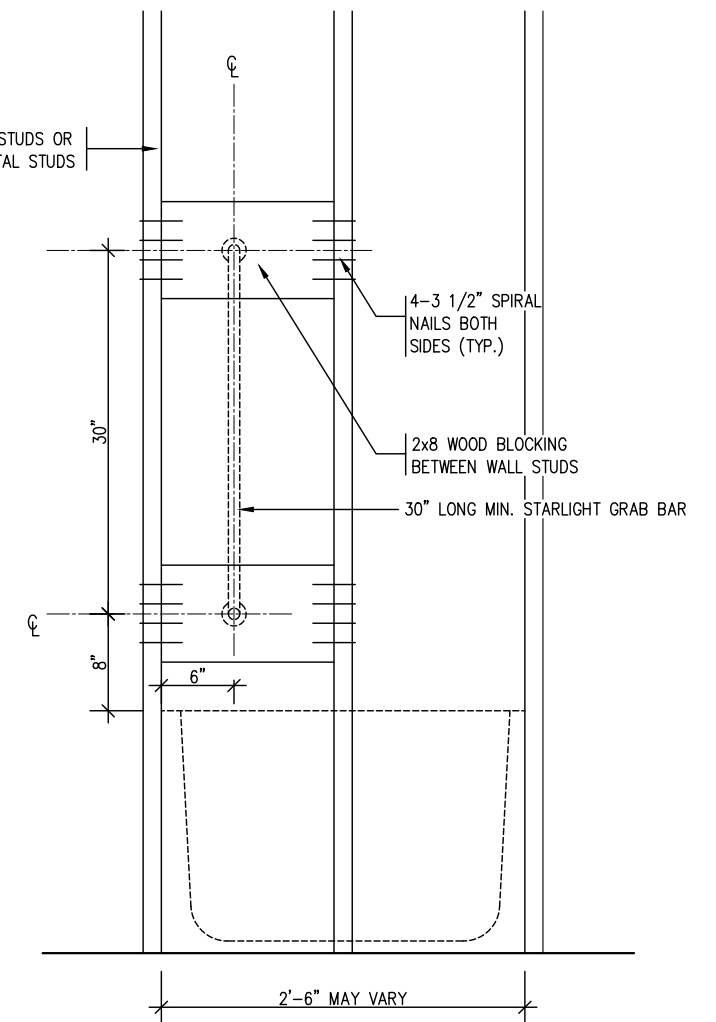
project name TRINAR HALL HOMES INC.		municipality EAST GWILLIMBURY		project no. 17026
date OCT. 2017	checked by -	scale Not to Scale	file name 17026-GP-STD_DETAILS_ES17	drawing no. 6
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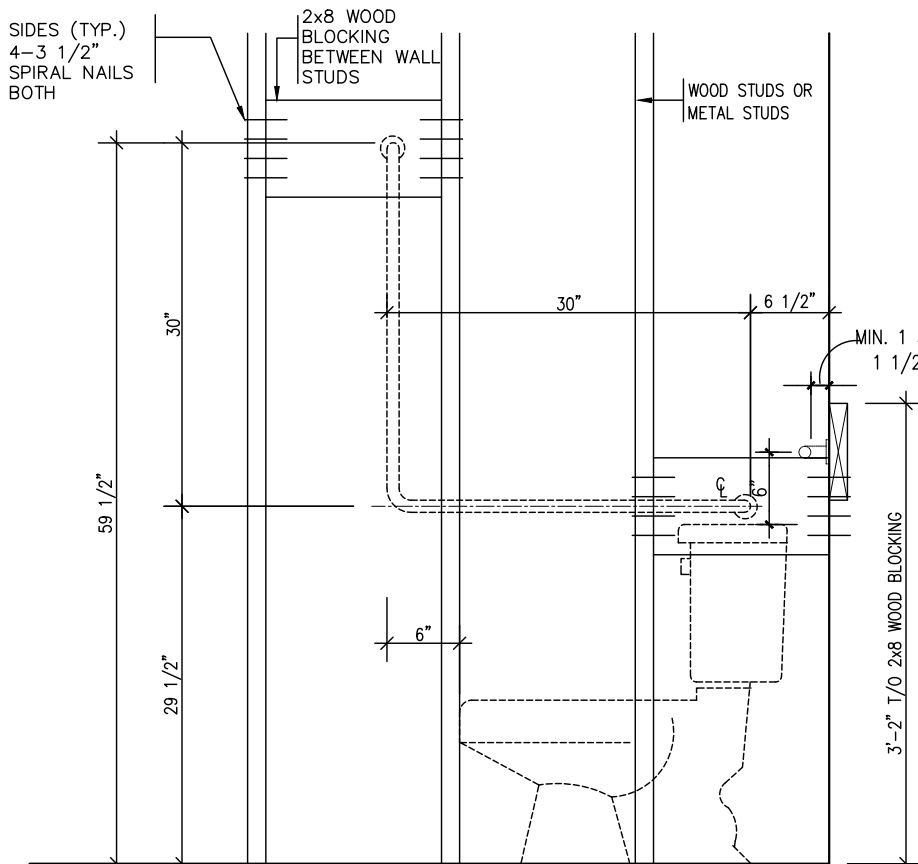
RESISTANCE TO FORCED ENTRY (OBC 9.6.8.)



BATH TUB/ SHOWER FRONT ELEVATION

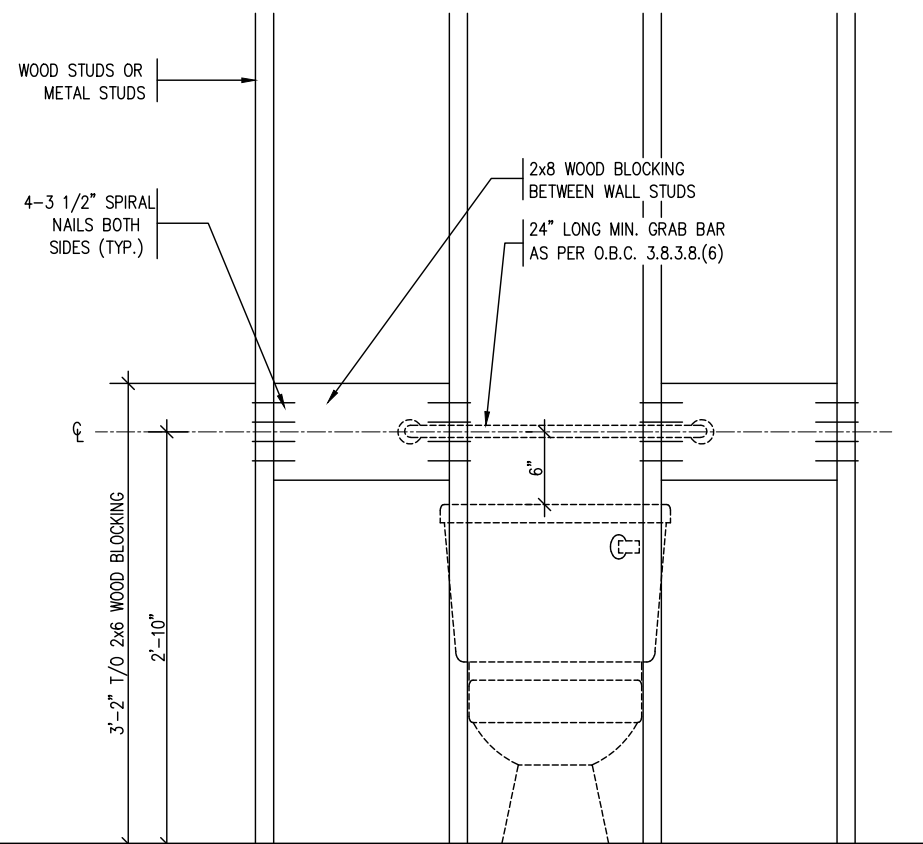


BATH TUB SHOWER HEAD SIDE ELEVATION



TOILET SIDE ELEVATION

STRUCTURAL REINFORCEMENT FOR GRAB BAR (OBC 9.5.2.3.)
FOR MAIN BATH ONLY



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

2012 CODE
ENERGY STAR

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2	INSUL VALUES ADJUSTED PER ESTAR V17	JAN 31/19	GW
1	ISSUED FOR PERMIT.	JAN. 26/18	GW
no.	description	date	by

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qualification information

Richard Vink 24488

name signature

registration information BCIN

VA3 Design Inc. 42658

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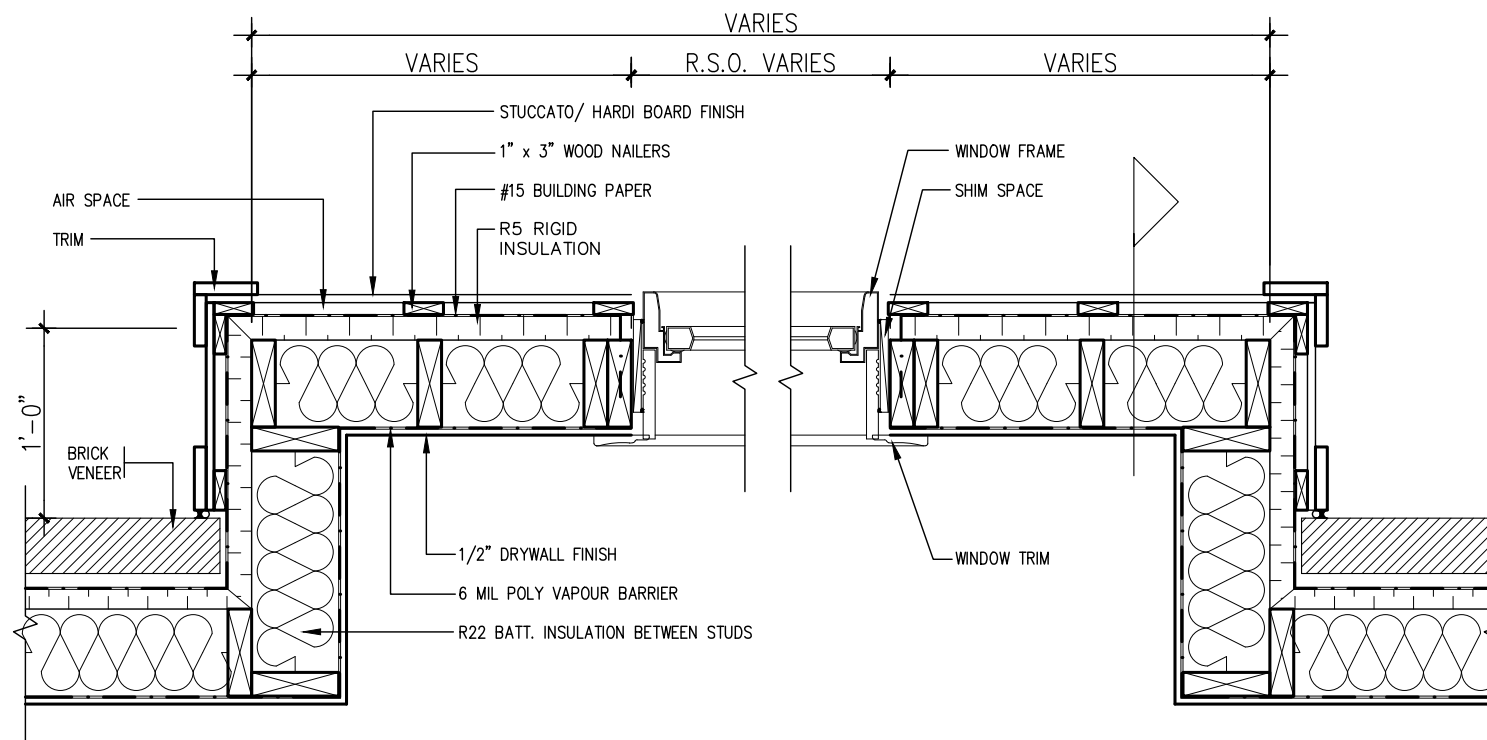
Greenpark

project name TRINAR HALL HOMES INC. municipality EAST GWILLIMBURY

project no. 17026

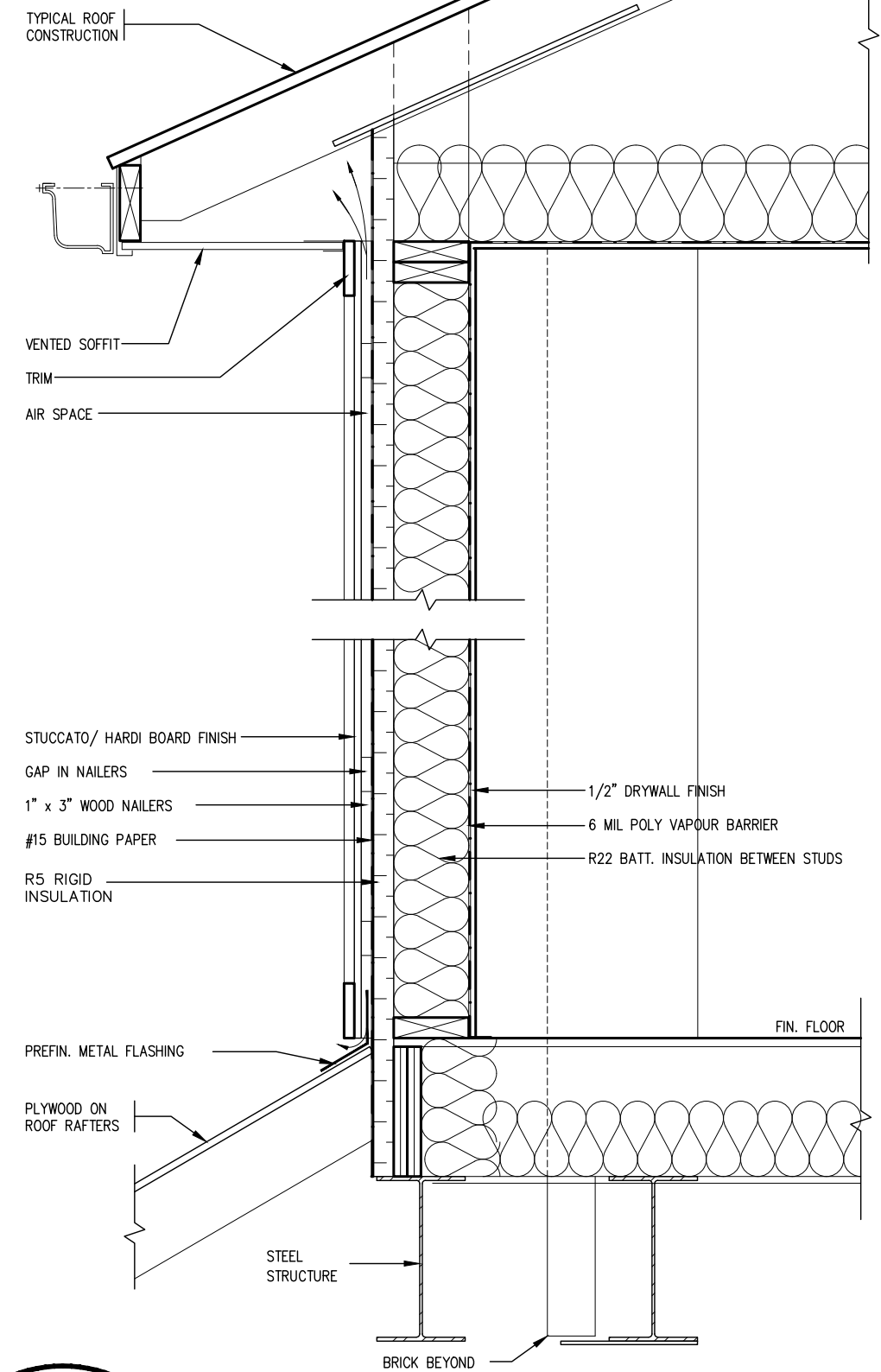
date OCT. 2017
drawn by GW checked by - scale Not to Scale
file name 17026-GP-STD_DETAILS_ES17
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drawing no. 7



PLAN VIEW

STUCCATO BOARD FINISH CLADDING OR EQUAL (OBC 9.27.)



CROSS SECTION



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2012 CODE
ENERGY STAR



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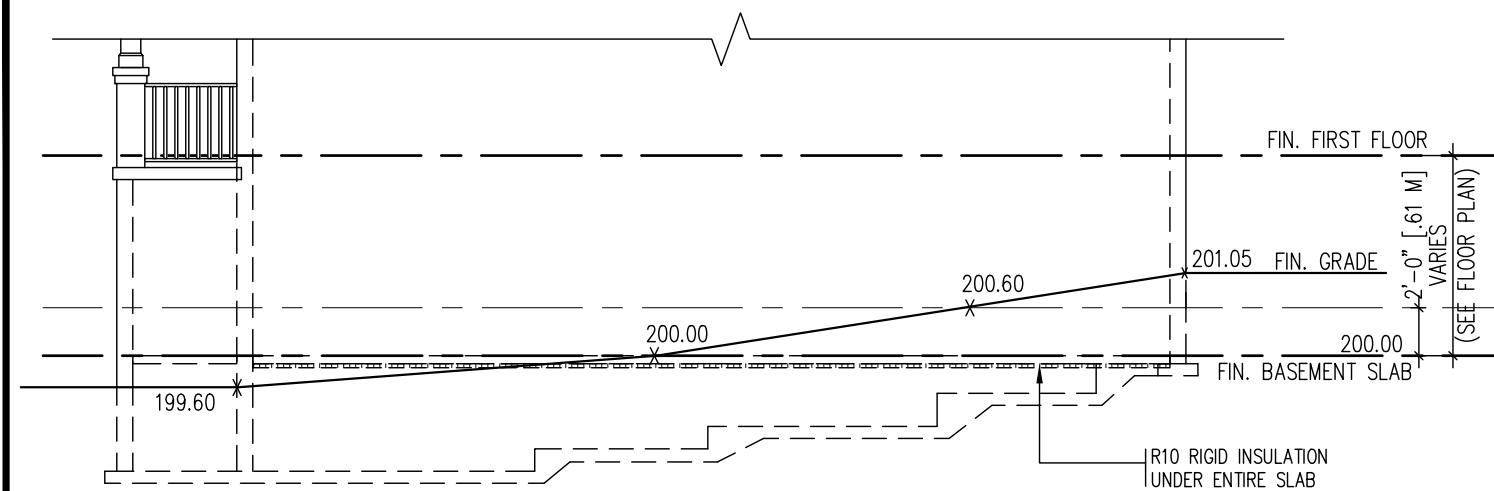
Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-24
Sewage System			
Zoning			

9	.	.	.
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2	INSUL VALUES ADJUSTED PER ESTAR V17	JAN 31/19	GW
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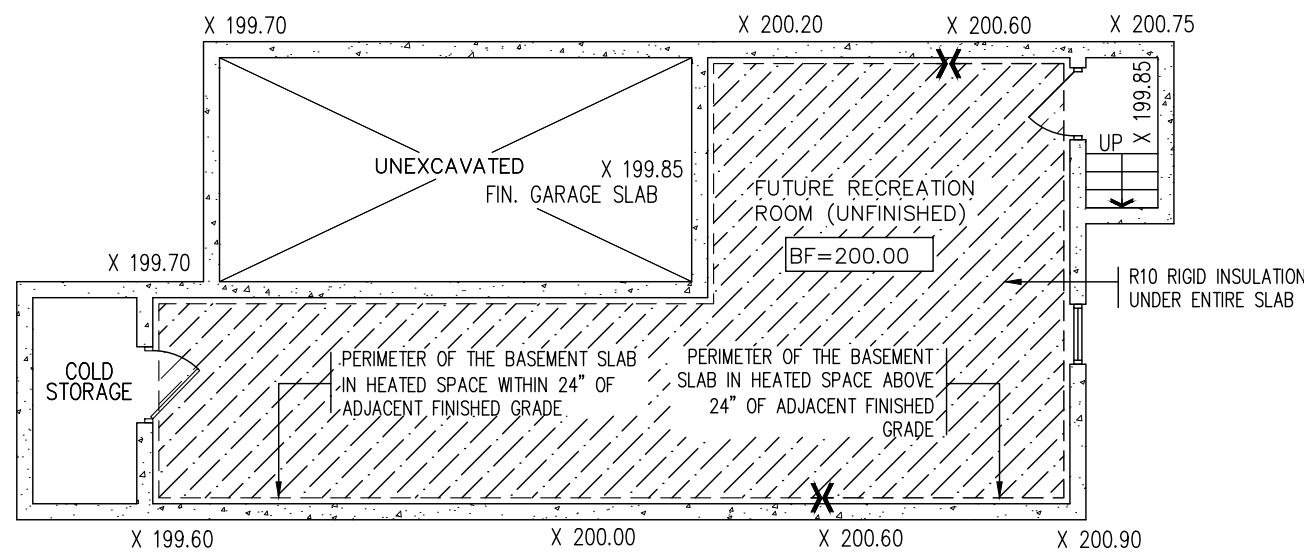
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VA3 Design Inc. 42658
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Greenpark		-	
project name TRINAR HALL HOMES INC.		municipality EAST GWILLIMBURY	project no. 17026
date OCT. 2017	STUCCATO/ HARDI BOARD FINISH		drawing no. 8
drawn by GW	checked by -	scale Not to Scale	file name 17026-GP-STD_DETAILS_ES17
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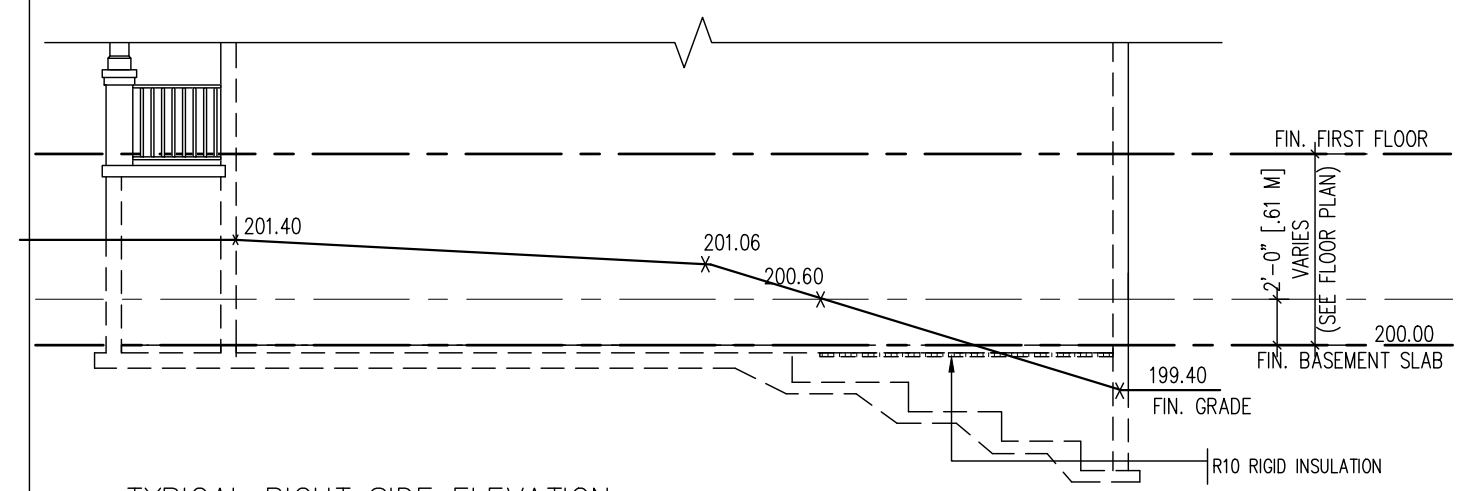
TYPICAL RIGHT SIDE ELEVATION



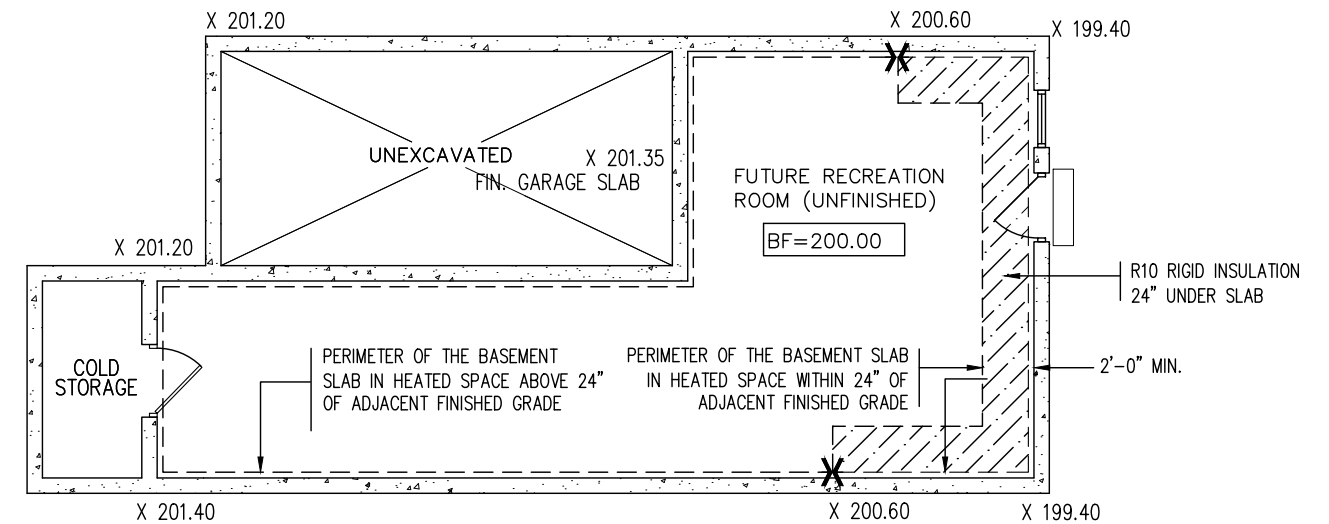
TYPICAL BASEMENT PLAN

SLAB ON GRADE CONDITION

NOTES:
1. LEVELS SHOWN ON THE PLANS ARE FOR ILLUSTRATION PURPOSE ONLY, SEE FINAL GRADING PLAN FOR ACTUAL LEVELS
2. ALL LEVELS ARE SHOWN IN METRIC



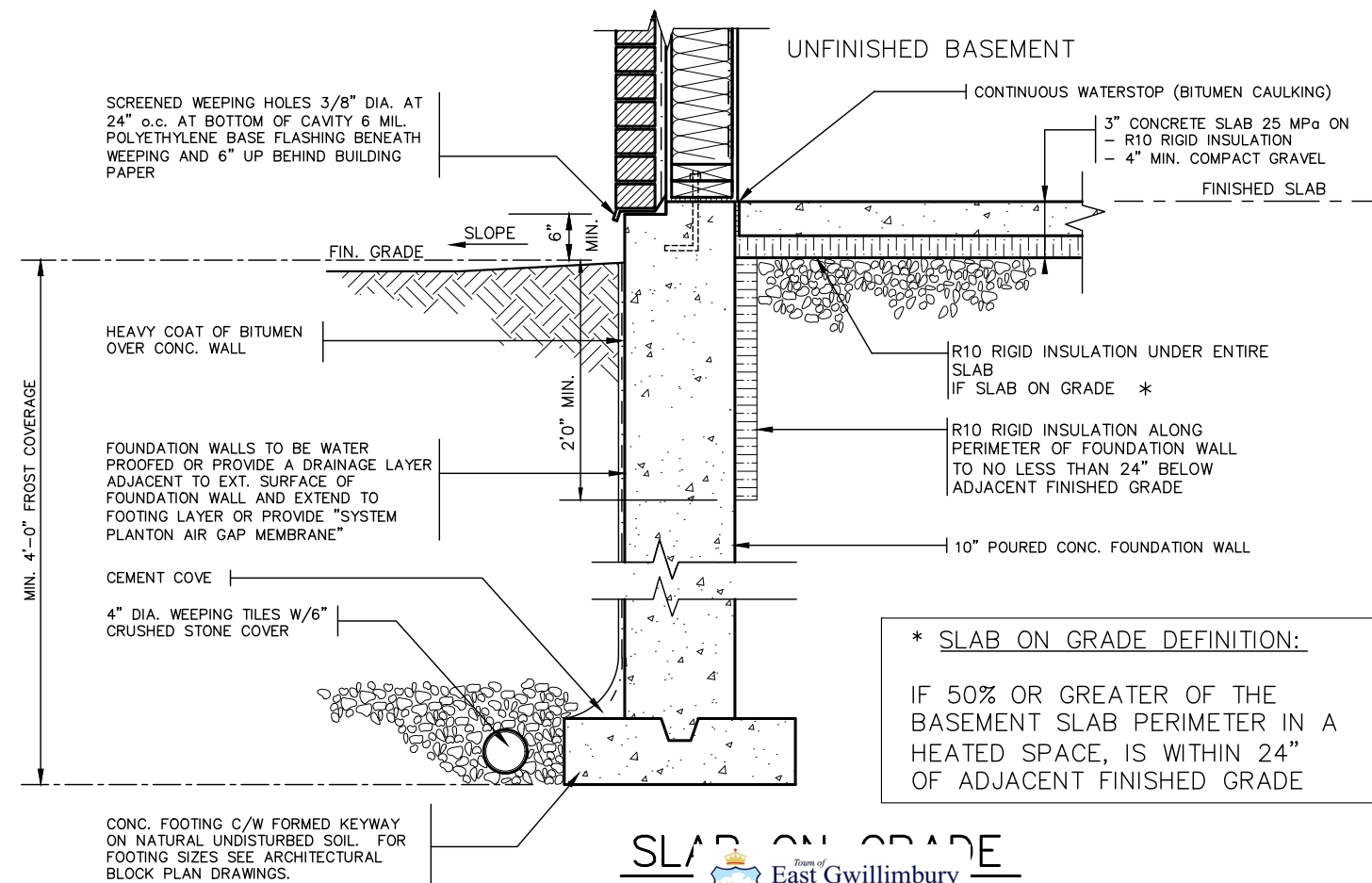
TYPICAL RIGHT SIDE ELEVATION



TYPICAL BASEMENT PLAN

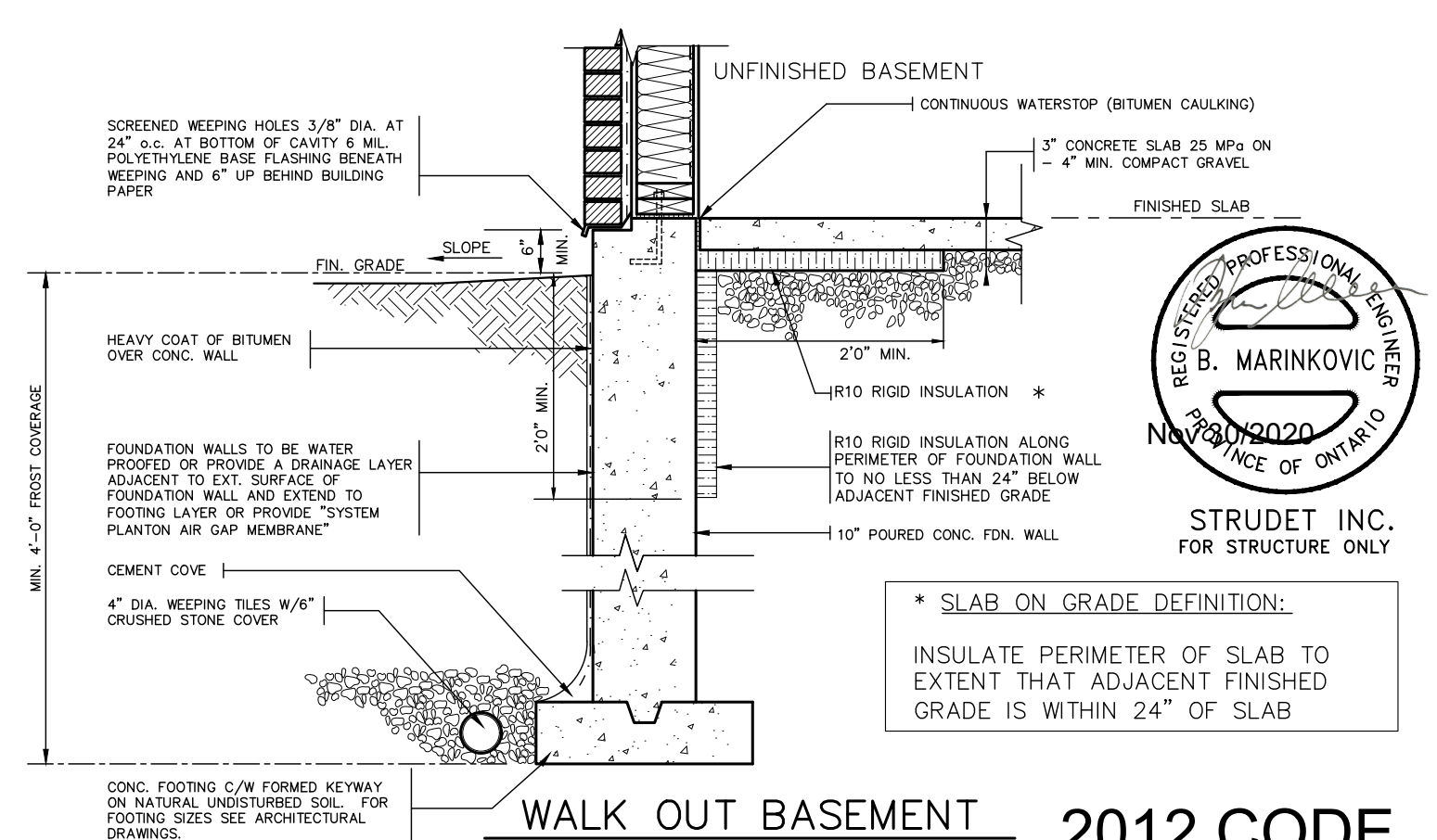
WALK OUT BASEMENT CONDITION

NOTES:
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2. ALL LEVELS ARE SHOWN IN METRIC



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Sewage System			
Zoning			



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WALK OUT BASEMENT 2012 CODE ENERGY STAR

no.	description	date	by
1	ISSUED FOR PERMIT.	JAN. 26/18	GW
2	INSUL. VALUES ADJUSTED PER ESTAR V17	JAN. 31/19	GW

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qualification information
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signature
24488
BCIN
VA3 Design Inc.
42658
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project name
TRINAR HALL HOMES INC.
municipality
EAST GWILLIMBURY
project no.
17026
drawing no.
9
date
OCT. 2017
checked by
Not to Scale
scale
17026-GP-STD_DETAILS_ES17
file name
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