

ADDRESS

CITY

WARD

LEGAL DESCRIPTION

ROLL NUMBER

FRONTAGE

DEPTH

COMMON NAME

PROPERTY CODE

STATUS

29 ARMSTRONG AV.

GEORGETOWN, ON.

3

LOT 17 CON 10

00-00-000-000-00000-0000

169.61m / 556.46 ft

SW 127.17m/417.10 ft - NE 172.04m/564.30 ft

REGISTERED

DRAWING LIST	
SHEET NO.	SHEET NAME
A0.01	COVER SHEET
A0.02	OBC MATRIX
A0.03	GENERAL NOTES
SP1.01	SITE PLAN SURVEY
SP1.02	SITE PLAN DEMO
SP1.03	SITE PLAN PROPOSED
A1.01	NEW BUILDING FIRST FLOOR PLAN
A1.02	NEW BUILDING MEZZANINE
A2.01	ELEVATIONS
A2.02	ELEVATIONS
A3.01	EXISTING BUILDING DEMOLITION
A3.02	RETAINING WALL DETAIL
A4.01	SECTIONS
A4.02	SECTIONS
A4.03	SECTIONS
S0.01	STRUCTURAL NOTES
S3.01	STRUCTURAL DETAILS
S3.02	STRUCTURAL DETAILS
F1.01	FOOTINGS LAYOUT



REVISIONS

1	13-MAY-21	ISSUED FOR DEMO PERMIT
2	17-MAY-21	ISSUED FOR REVIEW
3	21-MAY-21	ISSUED FOR REVIEW
4	31-MAY-21	ISSUED FOR STRUCTURAL REVIEW
5	2-JUN-21	ISSUED FOR CLIENT REVIEW
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KEY PLAN LOCATION N.T.S.

DESIGN:

WESTPORT

STRUCTURES INC.

WESTPORT STRUCTURES INC.

1100 BURLOAK DR., SUITE 300  
BURLINGTON, ON. L7L 6B2  
416-888-8299  
ray@westportstructures.com

PROJECT:

HBC TRANSPORTATION INC

29 ARMSTRONG AV.  
GEORGETOWN, ON.

SHEET TITLE:

COVER SHEET

SCALE:	NTS	JOB No.	#
DATE:	June 21	PRINTED:	#
DRAWN BY:	M CARVALLO	SHEET No.	
CHECKED BY:	R. BARCLAY		A0.01

	WESTPORT STRUCTURES INC 1100 BURLOAK DR. SUITE 300 BURLINGTON, ON. L7L 6B2 CANADA TEL. 416-888.8299 ray@westportstructures.com
NAME OF PROJECT	HBC TRANSPORTATION INC
ADDRESS	29 ARMSTRONG AV.
CITY	GEORGETOWN, ON.
DATE	MAY 2021

ONTARIO BUILDING CODE DATA MATRIX PART 3					BUILDING CODE REFERENCE <sup>1</sup>
3.00	BUILDING CODE VERSION	2012	LAST AMENDMENT		
3.01	PROJECT TYPE	NEW <input checked="" type="checkbox"/>	ADDITION	RENOVATION	[A] 1.1.2
		CHANGE OF USE	ADDITION & RENOVATION		
3.02	MAJOR OCCUPANCY CLASSIFICATION	OCCUPANCY: <b>F</b>	USE: <b>3</b>	<b>3.2.2.13 (2C)</b>	3.1.2.1(1)
3.03	SUPERIMPOSED MAJOR OCCUPANCIES	NO: <input checked="" type="checkbox"/>	YES		3.2.2.7
		DESCRIPTION: NO			

3.04	BUILDING AREA	DESCRIPTION:	EXISTING	NEW	TOTAL	[A]1.4.1.2
			464m²			
	TOTAL:					
3.05	GROSS AREA (m²)	DESCRIPTION:	EXISTING	NEW	TOTAL	[A]1.4.1.2
				1114.84 m²		
	TOTAL:					
3.06	MEZZANINE AREA (m²)	DESCRIPTION:	EXISTING	NEW	TOTAL	3.2.1.1
				459 m²		
	TOTAL:					

3.07	BUILDING HEIGHT	2 STOREYS ABOVE GRADE (m) ABOVE GRADE	[A] 1.4.12. & 3.2.1.1
		STOREYS BELOW GRADE	
3.08	HIGH BUILDING	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	3.2.6
3.09	NUMBER OF STREETS / FIREFIGHTER ACCESS	<u>2</u> STREET (S)	
3.10	BUILDING CLASSIFICATION: (SIZE AND CONSTRUCTION RELATIVE TO OCCUPANCY)	GROUP / DIV	3.2.2.20.-83

3.11	SPRINKLER SYSTEM	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	3.2.1.5 & 3.2.2.17.			
		PROPOSED <input type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> SELECTED COMPARTMENTS <input type="checkbox"/> SELECTED FLOOR AREAS <input type="checkbox"/> BASEMENT <input type="checkbox"/> ON LIEU OF ROOF RATING <input type="checkbox"/> NONE				
3.12	STANDPIPE SYSTEM	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	3.2.9			
3.13	FIRE ALARM SYSTEM	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	3.2.4			
3.14	WATER SERVICE / SUPPLY IS ADECUATE	<input type="checkbox"/> NO <input type="checkbox"/> YES				
3.15	CONSTRUCTION TYPE	RESTRICTION: <input type="checkbox"/> COMBUSTIBLE PERMITTED <input type="checkbox"/> NON COMBUSTIBLE REQUIRED ACTUAL: <input type="checkbox"/> COMBUSTIBLE <input type="checkbox"/> NON COMBUSTIBLE <input type="checkbox"/> COMBINATION HEAVY TIMBER CONSTRUCTION <input type="checkbox"/> NO <input type="checkbox"/> YES	3.2.3.20.-83 & 3.2.1.4			
3.16	IMPORTANCE CATEGORY	<input type="checkbox"/> LOW <input type="checkbox"/> LOW HUMAN OCCUPANCY <input type="checkbox"/> POST DISASTER SHELTER <input type="checkbox"/> NORMAL <input type="checkbox"/> EXPLOSIVE OR HAZARDOUS SUBSTANCES <input type="checkbox"/> HIGH <input type="checkbox"/> MINOR STORAGE BUILDING <input type="checkbox"/> POST-DISASTER	4.1.2.1(3) & T4.1.2.1.B			
3.17	SEISMIC HAZARD INDEX:	(IE Fa Sa (0.2)) = SEISMIC DESIGN REQUIRED FOR TABLE 4.1.8.18. ITEMS 6 TO 21: ((IE Fa Sa (0.2)) ≥ 0.35 OR POST DISASTER <input type="checkbox"/> NO	4.1.2.1.(3) 4.1.8.18.(2)			
3.19	BARRIER-FREE DESIGN	<input type="checkbox"/> YES EXPLANATION: <input type="checkbox"/> NO	3.8.			
3.20	HAZARDOUS SUBSTANCES:	<input type="checkbox"/> YES EXPLANATION: <input type="checkbox"/> NO	3.3.1.2. & 3.3.1.19			
3.21	REQUIRED FIRE RESISTANCE RATINGS	HORIZONTAL ASSEMBLY	RATING	SUPPORTIN G ASSEMBLY (H)	NON COMBUSTIBLE IN LIEU OF RATING	3.2.2.20-83 & 3.2.1.4
		FLOORS OVER BASEMENT			<input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> N/A	
		FLOORS			<input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> N/A	
		MEZZANINE			<input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> N/A	
		ROOF			<input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> N/A	
3.22	SPATIAL SEPARATION	WALL EBF AREA (m²) L.D. (m) L/H OR H/L REQUIRED FRR (H) CONSTRUCTION TYPE REQUIRED CLADDING TYPE REQUIRED EAST <input type="checkbox"/> NON COMBUSTIBLE <input type="checkbox"/> NON COMBUSTIBLE WEST <input type="checkbox"/> NON COMBUSTIBLE <input type="checkbox"/> NON COMBUSTIBLE NORTH <input type="checkbox"/> NON COMBUSTIBLE <input type="checkbox"/> NON COMBUSTIBLE SOUTH <input type="checkbox"/> NON COMBUSTIBLE <input type="checkbox"/> NON COMBUSTIBLE	3.2.3			
3.23	PLUMBING FIXTURES REQUIREMENTS	RATIO: MALE:FEMALE 50:50 EXCEPT NOTED OTHERWISE FLOOR LEVEL / AREA OCCUPAN T LOAD OBC REFERENC E FIXTURES REQUIRE D FIXTURES PROVIDE D	3.7.4			
3.24	ENERGY EFFICIENCY	COMPLIANCE PATH CLIMATIC ZONE				
3.25	NOTES					

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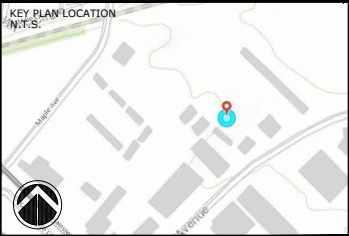
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PROJECT:

**HBC TRANSPORTATION INC**

**29 ARMSTRONG AV.**  
**GEORGETOWN, ON.**

SHEET TITLE:

**OBC MATRIX**

SCALE:	NTS	JOB No.	#
DATE:	June 21	PRINTED:	#
DRAWN BY:	M CARVALLO	SHEET No.	
CHECKED BY:	R. BARCLAY		<b>A0.02</b>



GENERAL NOTES

ALL CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, O.REG 407/97, AA.

1. FOUNDATION WALL

- 8" CONC. BLK.
- 6"-11" MAXIMUM BACKFILL
- 6" MINIMUM PROJECTION ABOVE GRADE
- LATERAL SUPPORT BY ANCHORED SILL PLATE
- BITUMINOUS DAMP-PROOFING
- BMEC APPROVED DRAINAGE LAYER
- 2"X 4" SILL PLATE ANCHORED TO FDN. WITH 8" LONG 1/2" DIA. ANCHOR BOLTS @7'-10"O/C MAX.
- PROVIDE CONTINUOUS CAULKING BETWEEN SILL AND FDN. WALL

2. FOOTINGS

- FOOTING SIZE AS PER PLAN
- 15MPA CONC. @28 DAYS U/S OF FOOTING 4'-0" BELOW FINISHED GRADE
- STEPPED FOOTINGS:
  - MIN. RUN - 24"
  - MIN. RISE - 24"
  - MIN. RISE - 16" FOR SAND OR GRAVEL
  - MAX SLOPE - 10/7

3. BASEMENT SLAB

- 3" SLAB ON 6 MIL POLY. SHEET
- 5" CRUSHED COMPACTED STONE
- 15MPA CONC. @28 DAYS
- 25MPA CONC. WHERE VAPOUR BARRIER IS NOT PROVIDED.

4. WEEPING TILE

- 4" DIA. WEEPING TILE IN 6" CRUSHED STONE OVER AND AROUND ALL FOOTINGS INCLUDING GARAGE FOOTINGS

5. MASONRY VENEER EXTERIOR WALLS

- 4" OR 3" FACE BRICK OR STONE, MAX 36'-0" HIGH.
- 1"X 7" 22GA CORROSION RESISTANT CORRUGATED METAL TIES, 16"O/C HORIZ. + 24"O/C VERT. NOT TO COMPRESS EXTERIOR SHEATHING
- 1" AIR SPACE
- #15 BUILDING PAPER
- 1/2" EXTERIOR TYPE SHEATHING
- 1.1 CLADMATE R5.5
- 2"X 4" WOOD STUDS (SPF #1/2) @16"O/C
- R13 BATT INSULATION IN STUD SPACE
- 6 MIL POLY. AIR/VAPOUR BARRIER.
- 1/2" GYP. BD. INTERIOR FINISH
- 3/8" WEEPHOLES @31"O/C MAX. + 6 MIL. POLY BASE FLASHING @ BOTTOM COURSE + OVER OPENINGS
- PROVIDE BRICK OR STONE SILLS UNDER ALL OPENINGS. FLASH UNDER SILLS.

6. FRAME WALL CONSTRUCTION

- STUCCO BOARD OR SIDING AS PER ELEVATION
- #15 BUILDING PAPER
- 1/2" EXTERIOR TYPE SHEATHING
- 1.1 CLADMATE R5.5
- 2"X 6" WOOD STUDS (SPF #1/2) @16"O/C
- R20 BATT INSULATION IN STUD SPACE

- 6 MIL POLY. AIR/VAPOUR BARRIER.
- 1/2" GYP. BD. INTERIOR FINISH

7. INTERIOR PARTITIONS - LOAD BEARING + NON-LOAD BEARING

- 2"X 4" SPF #1/2 STUDS @16"O/C OR
- 2"X 6" SPF #1/2 STUDS @16"O/C
- 1/2" GYP. BD. INTERIOR FINISH ON EXPOSED SIDES
- 2"X 4" OR 2"X 6" BOTTOM PLATE AND DOUBLE TOP PLATE.

8. BASEMENT LOAD BEARING PARTITIONS

- 2"X 6" SPF #1/2 STUDS @16"O/C
- 1/2" GYP. BD. INTERIOR FINISH ON EXPOSED SIDES
- 2"X 6" DOUBLE TOP PLATE.
- 2"X 6" SILL PLATE ON DAMP PROOFING MATERIAL
- 1/2" DIA. ANCHOR BOLTS @6'-0" O/C ON 4" HIGH CONCRETE CURB ON 16"X 4" CONCRETE FOOTING.

9. ROOF + CEILING CONSTRUCTION

- #210 ASPHALT SHINGLES
- TYPE S ROLL ROOFING FROM EDGE OF ROOF TO MIN. 3'-0" UP THE ROOF SLOPE TO MIN 12" BEYOND INSIDE FACE OF EXTERIOR WALL
- STARTER STRIP #85 ROLL ROOFING OR ROOF SHINGLE OF SAME WEIGHT AND QUALITY AS USED ON ROOF LAID WITH TABS FACING UP
- 3/8" PLYWOOD SHEATHING WITH "H" CLIPS
- TRUSSES OR CONVENTIONAL FRAMING AS PER PLAN AND TRUSS DRAWINGS
- METAL EAVESDROP ON ALUMINUM FASCIA AND ALUMINUM VENTED SOFFIT
- ATTIC VENTILATION 1:300 OF INSULATED CEILING AREA WITH AT LEAST 25% AT EAVES AND 25% AT RIDGE.
- R31 INSULATION OVER CEILING
- 6 MIL POLY. AIR/VAPOUR BARRIER
- 1/2" GYP. BD. INTERIOR FINISH
- PROVIDE 20"X 28" INSULATED + WEATHER STRIPPED ATTIC ACCESS HATCH WHERE INDICATED ON PLAN

10. FLOOR CONSTRUCTION

- FINISHED FLOORING ON 5/8" T+G SUBFLOOR ON FLOOR JOISTS
- SEE PLAN FOR JOIST TYPE AND SIZE

11. STEEL COLUMNS

- 3 1/2" DIA. STEEL PIPE COLUMN, 3/16" WALL THICKNESS
- 6"X 6"X 3/8" WELDED TOP + BOTTOM PLATES
- BOTTOM PLATE ANCHORED TO FOOTING WITH (4) 1/2" DIA. ANCHOR BOLTS
- REFER TO PLAN FOR S0.01 FOR COLUMN DETAILS

12. GARAGE SLAB

- MIN 4" CONC. SLAB
- MIN 5" CRUSHED COMPACTED STONE
- 32MPA CONC. @28 DAYS WITH 5-8% AIR ENTRAINMENT
- SLOPE SLAB TO FRONT

13. GARAGE GAS PROOFING

- 1/2" GYP. BD. FINISH ON GARAGE SIDE
- R17 INSULATION IN WALLS
- R25 INSULATION IN CEILING
- 6 MIL POLY AIR/VAPOUR BARRIER IN WALLS AND CEILING
- CAULK AROUND PENETRATIONS

14. STAIRS

- TREAD: MIN 9 1/4" - MAX 14"

- RUN: MIN 8 1/4" - MAX 14"
- RISE: MIN 4 7/8" - MAX 7 7/8"
- HEADROOM: MIN 6'-5" ABOVE EDGE OF NOSING

15. INTERIOR GUARDS + HANDRAILS

- HANDRAIL MIN 36" HIGH ABOVE EDGE OF NOSING
- HANDRAILS SHALL BE PROVIDED ON ALL STAIRS HAVING MORE THAN 2 RISERS
- HANDRAIL ON BOTH SIDES OF STAIRS WIDER THAN 3'-7"
- GUARDS AT LANDINGS AND BALCONIES MIN 36" HIGH
- PROVIDE PICKETS SPACED 4" APART MAX. ON ALL OPEN SIDES OF LANDINGS, STAIRS AND BALCONIES

16. EXTERIOR GUARDS + HANDRAILS

- HANDRAIL MIN 36" HIGH ABOVE EDGE OF NOSING
- HANDRAILS SHALL BE PROVIDED ON ALL STAIRS HAVING MORE THAN 2 RISERS
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BEAMS SHALL HAVE MIN. 3 1/2" SOLID END BEARING.

STEEL LINTELS FOR MASONRY VENEER SHALL MIN. 6" END BEARING.

LINTEL SCHEDULE

WOOD LINTELS:

WB1 - 2-2"X 8"  
WB2 - 3-2"X 8"  
WB3 - 2-2"X 10"  
WB4 - 3-2"X 10"  
WB5 - 2-2"X 12"  
WB6 - 3-2"X 12"  
WB7 - 4-2"X 10"  
WB8 - 4-2"X 12"

STEEL LINTELS:

L1 - 3-1/2" X 3-1/2" X 1/4"  
L2 - 4" X 3-1/2" X 5/16"  
L3 - 5" X 3-1/2" X 5/16"  
L4 - 6" X 3-1/2" X 3/8"  
L5 - 6" X 4" X 3/8"

WOOD COLUMNS

SB1 - 2-2"X 4"  
SB2 - 3-2"X 4"  
SB3 - 2-2"X 6"  
SB4 - 3-2"X 6"  
SB5 - 4-2"X 6"  
SB6 - 8"X 8" SOLID

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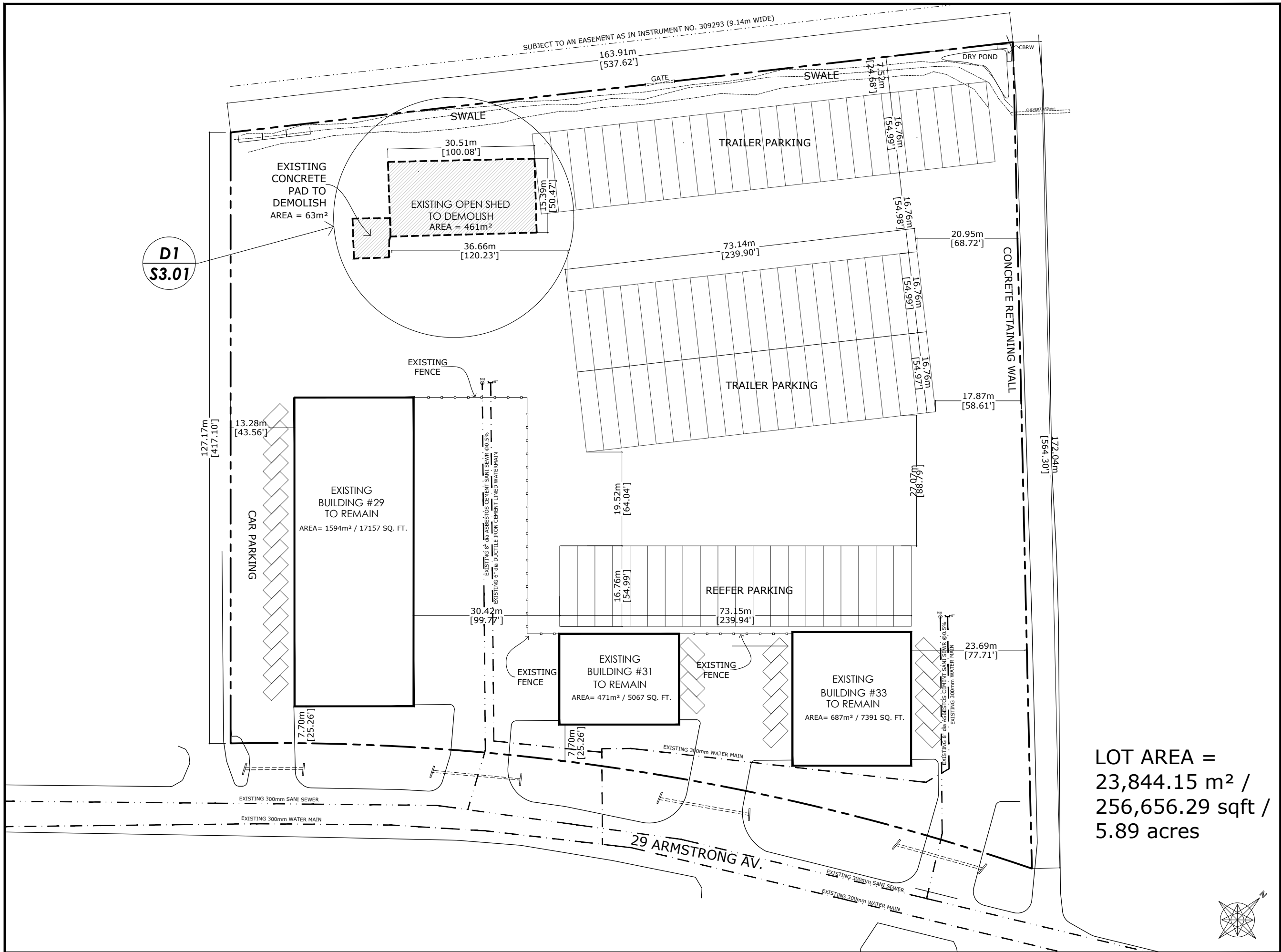
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CHECKED BY:	R. BARCLAY		

A0.03





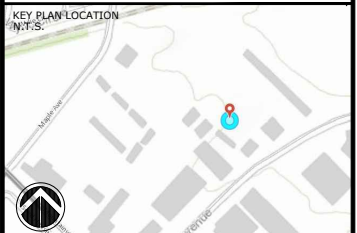
D1  
S3.01

LOT AREA =  
23,844.15 m<sup>2</sup> /  
256,656.29 sqft /  
5.89 acres

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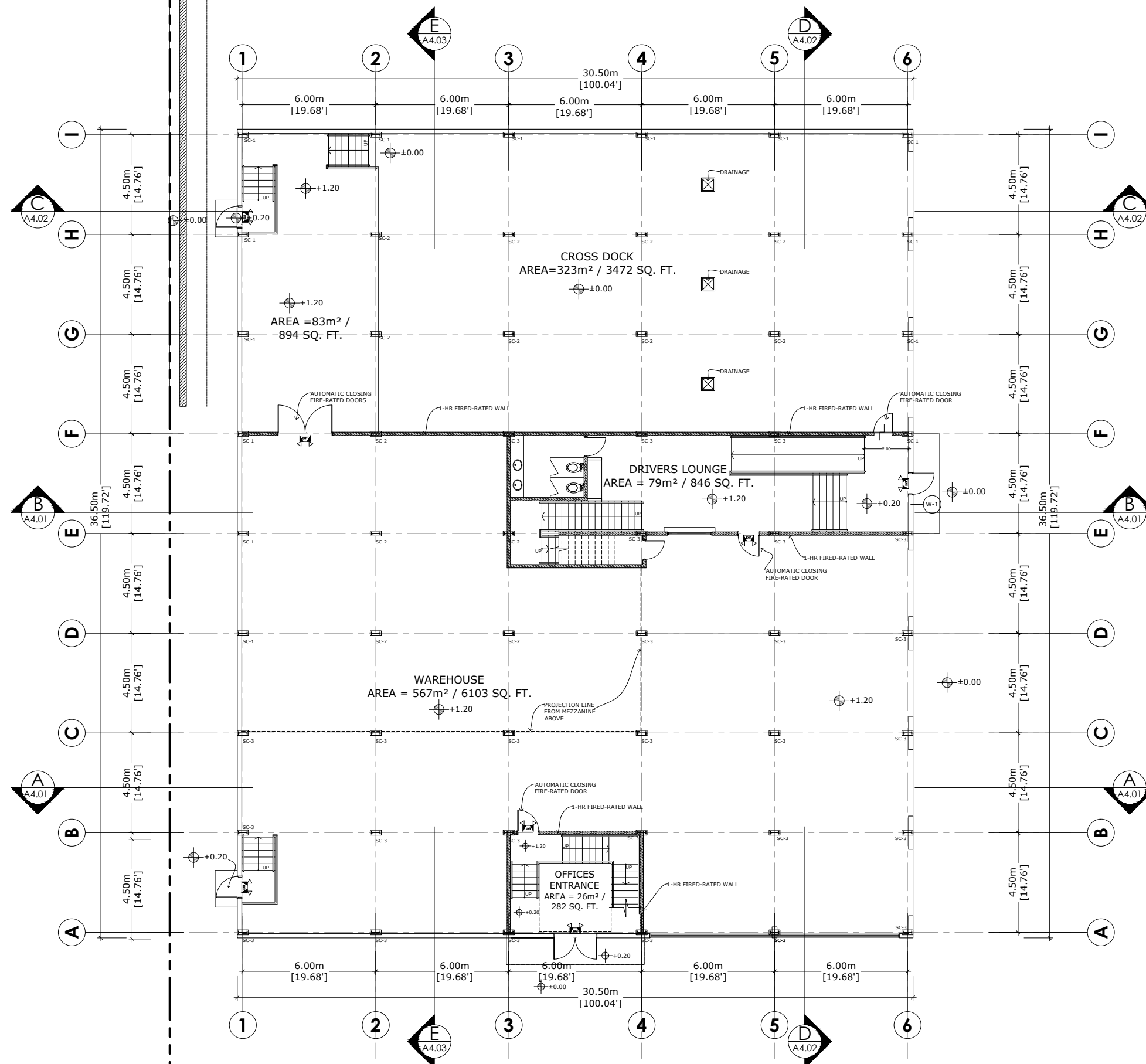
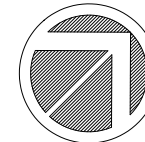
**SITE PLAN**  
**DEMO**

SCALE:	1-750	JOB No.	#
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CHECKED BY:	R. BARCLAY		

SP1.02







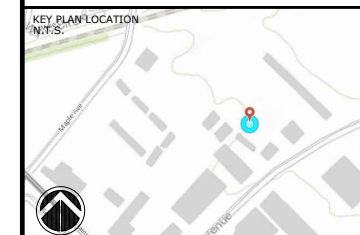
- GRADE LEVEL ±0.00m
- ENTRY LEVEL +0.20m
- WAREHOUSE LEVEL +1.20m
- MEZZANINE LEVEL +5.00m

REVISIONS	
1	13-MAY-21 ISSUED FOR DEMO PERMIT
2	17-MAY-21 ISSUED FOR REVIEW
3	21-MAY-21 ISSUED FOR REVIEW
4	31-MAY-21 ISSUED FOR STRUCTURAL REVIEW
5	2-JUN-21 ISSUED FOR CLIENT REVIEW
6	----
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#### DESIGN:



WESTPORT STRUCTURES INC.  
1100 BURLOAK DR., SUITE 300  
BURLINGTON, ON, L7L 6B2  
416-888-5299  
ray@westportstructures.com

#### PROJECT:

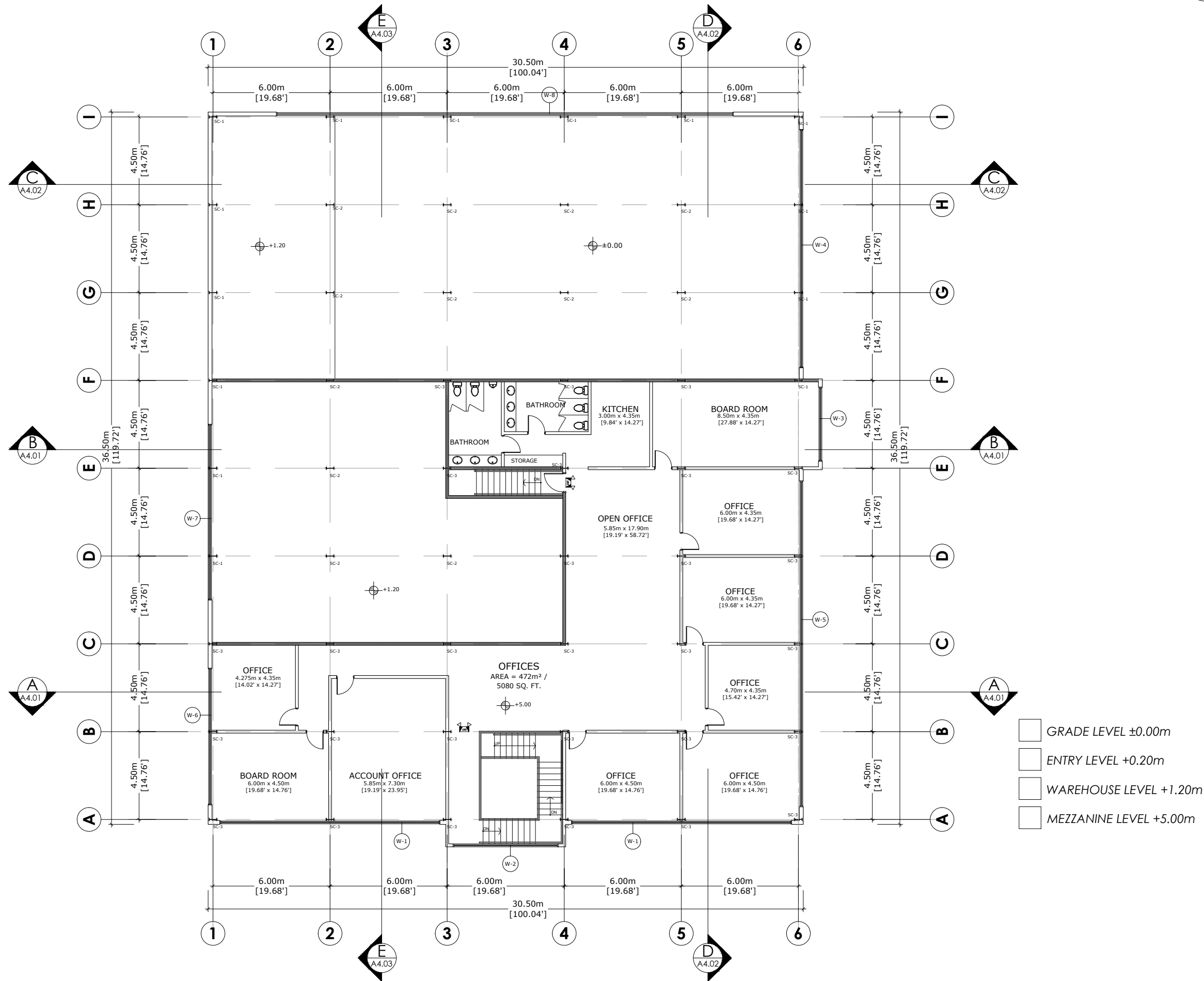
**HBC TRANSPORTATION INC**

**29 ARMSTRONG AV.  
GEORGETOWN, ON.**

#### SHEET TITLE:

**FIRST FLOOR**

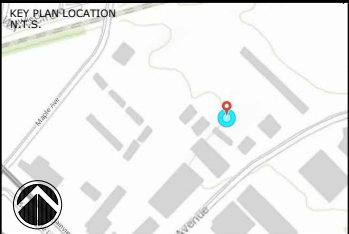
SCALE:	1-200	JOB No.	#
DATE:	June 21	PRINTED:	#
DRAWN BY:	M CARVALLO	SHEET No.	
CHECKED BY:	R. BARCLAY		<b>A1.01</b>



REVISIONS		
1	13-MAY-21	ISSUED FOR DEMO PERMIT
2	17-MAY-21	ISSUED FOR REVIEW
3	21-MAY-21	ISSUED FOR REVIEW
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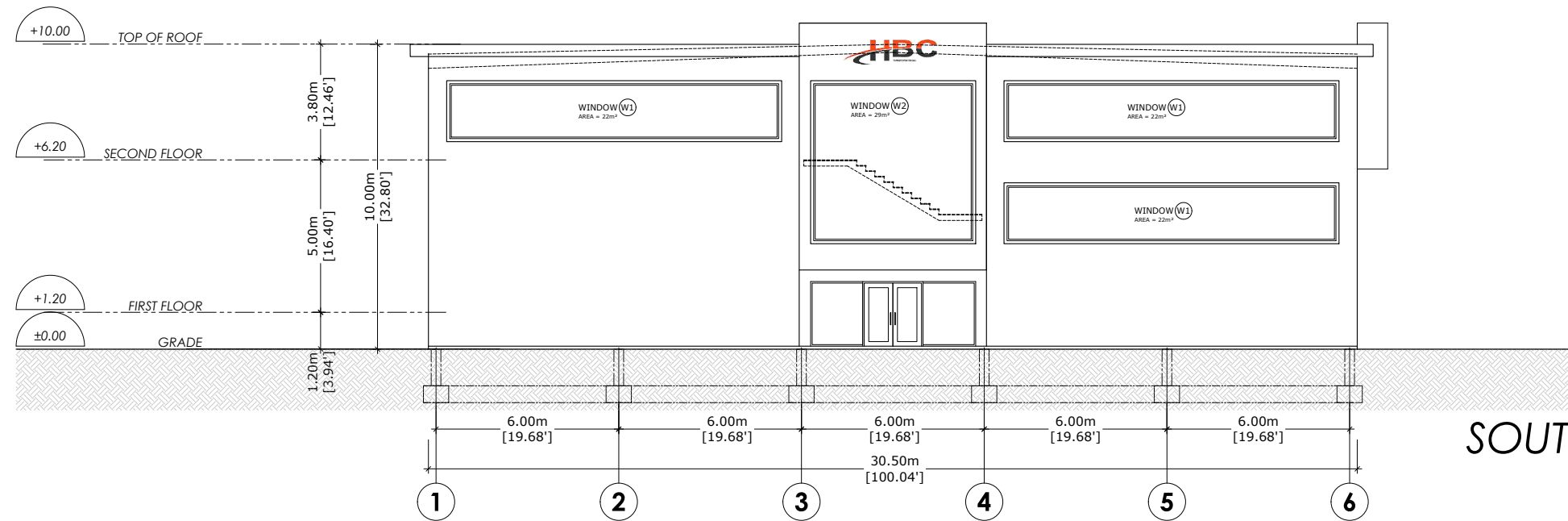
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**GEORGETOWN, ON.**

SHEET TITLE:

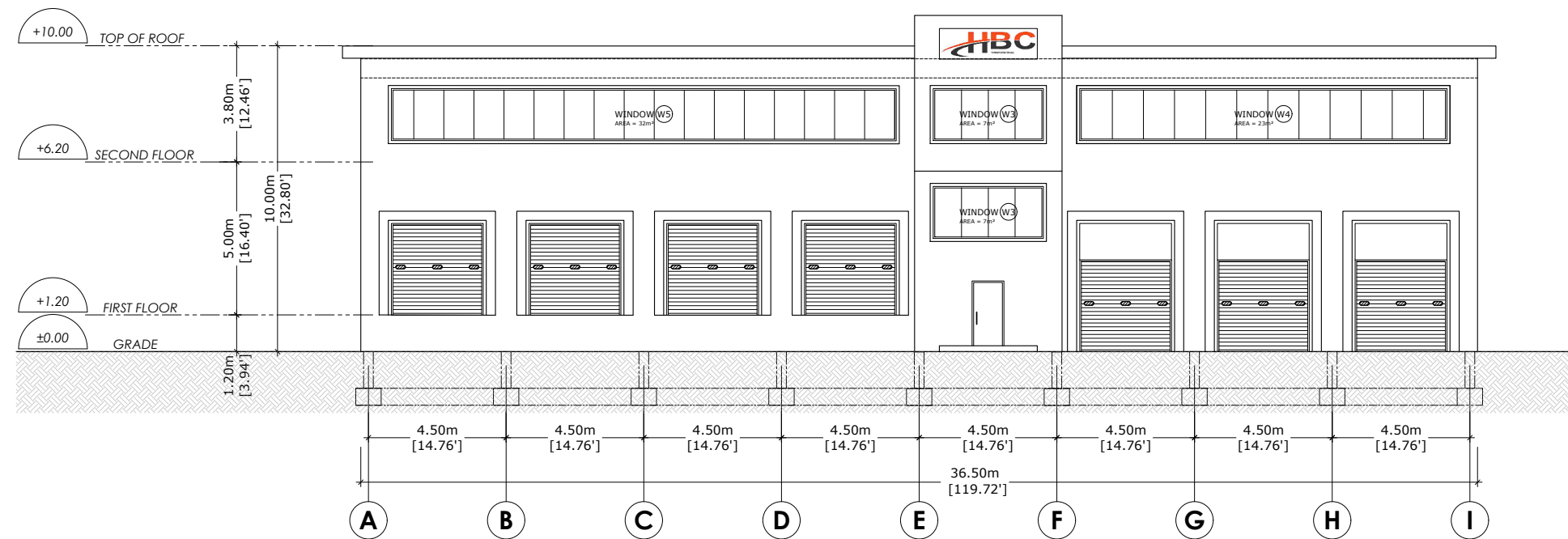
**MEZZANINE**

SCALE:	1-200	JOB No.	#
DATE:	June 21	PRINTED:	#
DRAWN BY:	M CARVALLO	SHEET No.	
CHECKED BY:	R. BARCLAY		<b>A1.02</b>





SOUTH ELEVATION



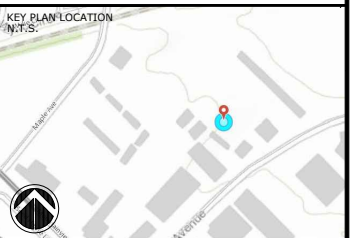
EAST ELEVATION

REVISIONS		
1	13-MAY-21	ISSUED FOR DEMO PERMIT
2	17-MAY-21	ISSUED FOR REVIEW
3	21-MAY-21	ISSUED FOR REVIEW
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ray@westportstructures.com

PROJECT:

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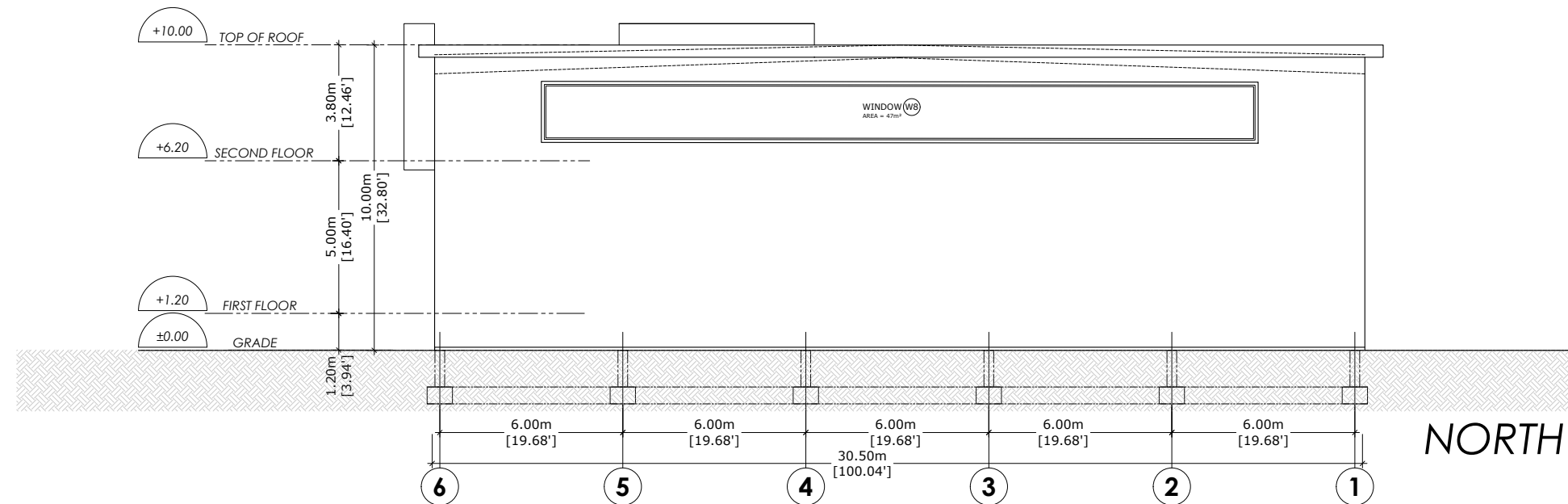
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**GEORGETOWN, ON.**

SHEET TITLE:

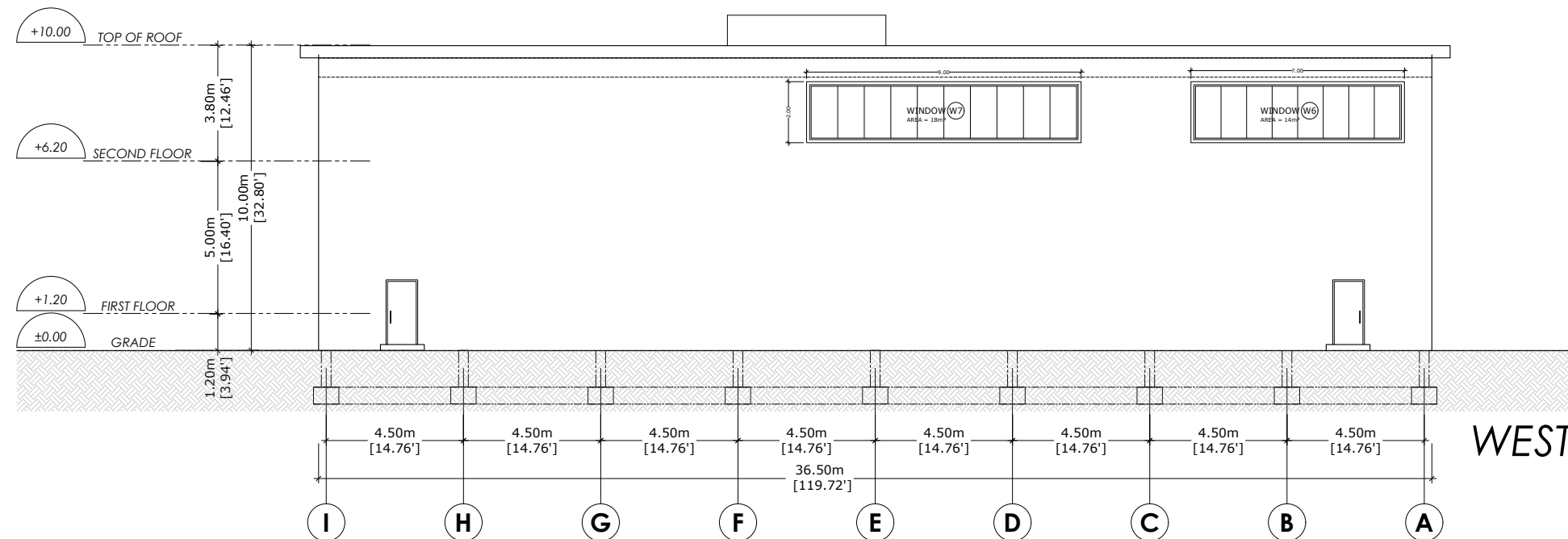
**ELEVATIONS**

SCALE:	1-200	JOB No.	#
DATE:	June 21	PRINTED:	#
DRAWN BY:	M CARVALLO	SHEET No.	
CHECKED BY:	R. BARCLAY		

**A2.01**



NORTH ELEVATION



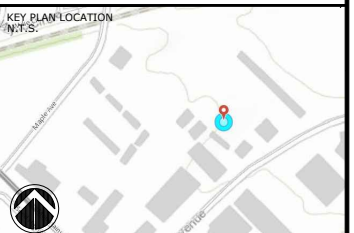
WEST ELEVATION

REVISIONS		
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2	17-MAY-21	ISSUED FOR REVIEW
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ray@westportstructures.com

PROJECT:

**HBC TRANSPORTATION INC**

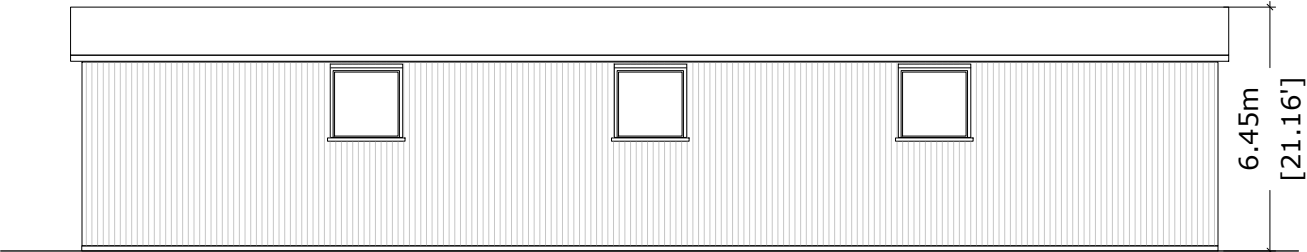
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**GEORGETOWN, ON.**

SHEET TITLE:

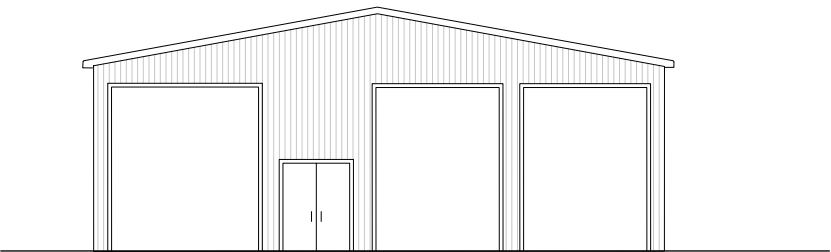
**ELEVATIONS**

SCALE:	1-200	JOB No.	#
DATE:	June 21	PRINTED:	#
DRAWN BY:	M. CARVALLO	SHEET No.	
CHECKED BY:	R. BARCLAY		

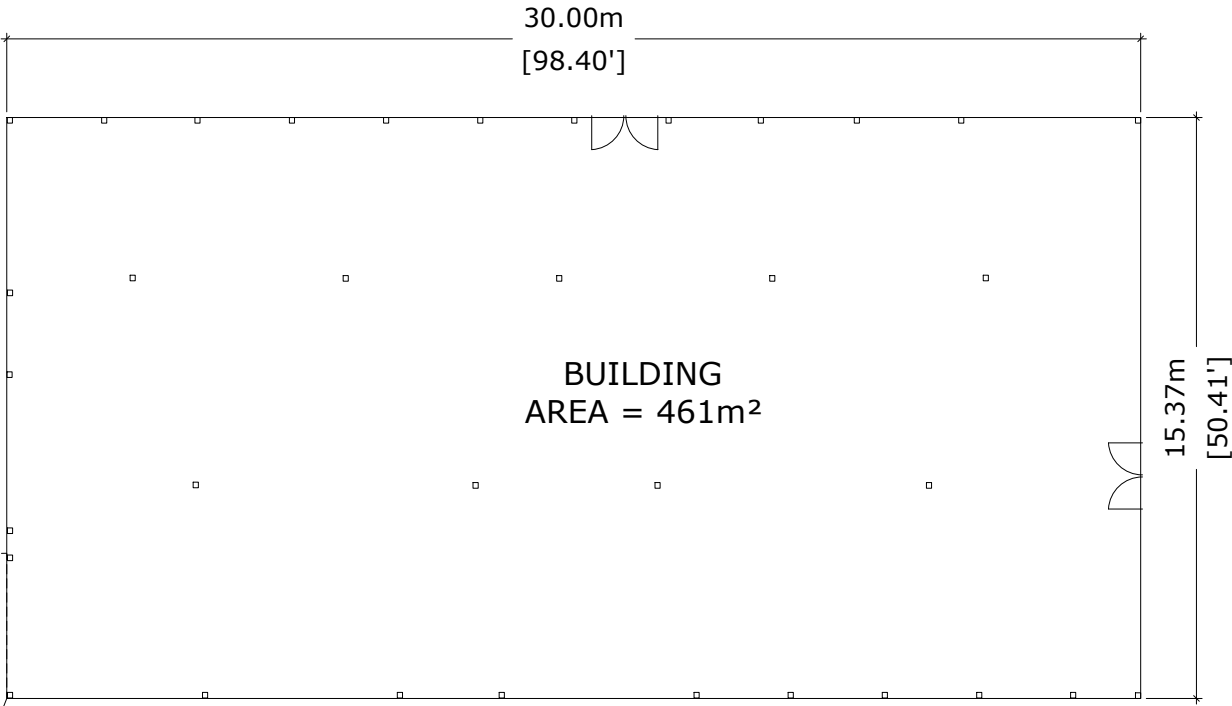
**A2.02**



FRONT ELEVATION



EAST ELEVATION



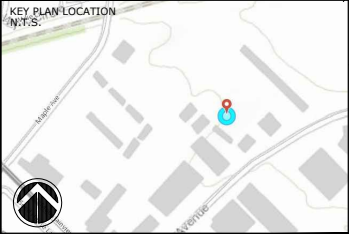
FLOOR PLAN

REVISIONS		
1	13-MAY-21	ISSUED FOR DEMO PERMIT
2	17-MAY-21	ISSUED FOR REVIEW
3	21-MAY-21	ISSUED FOR REVIEW
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PROJECT:

**HBC TRANSPORTATION INC**

**29 ARMSTRONG AV.**  
**GEORGETOWN, ON.**

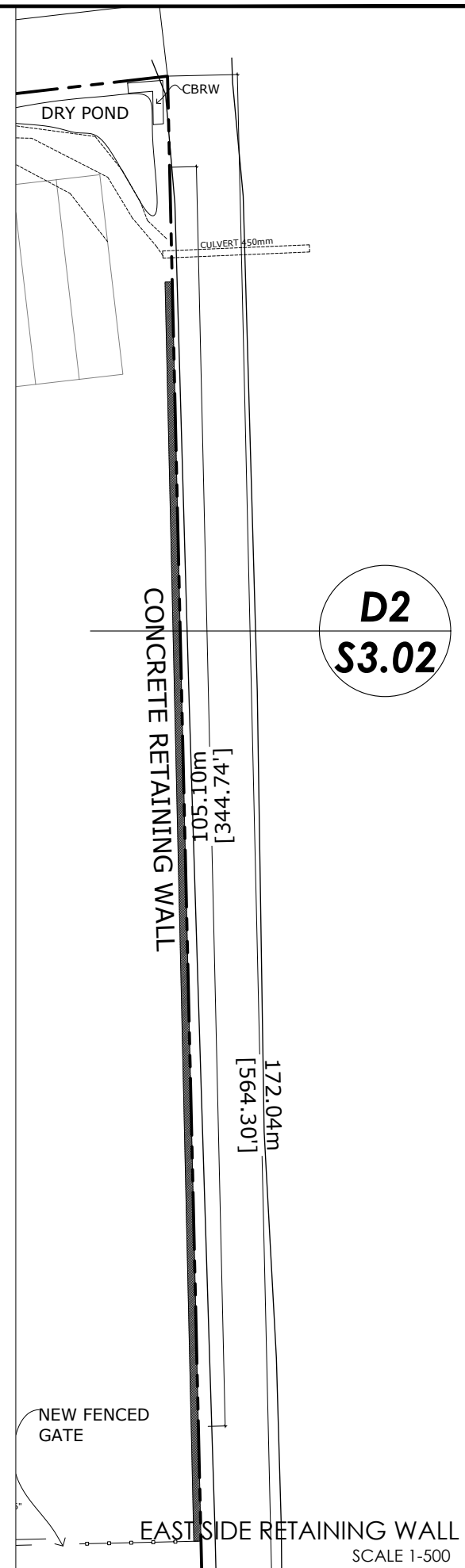
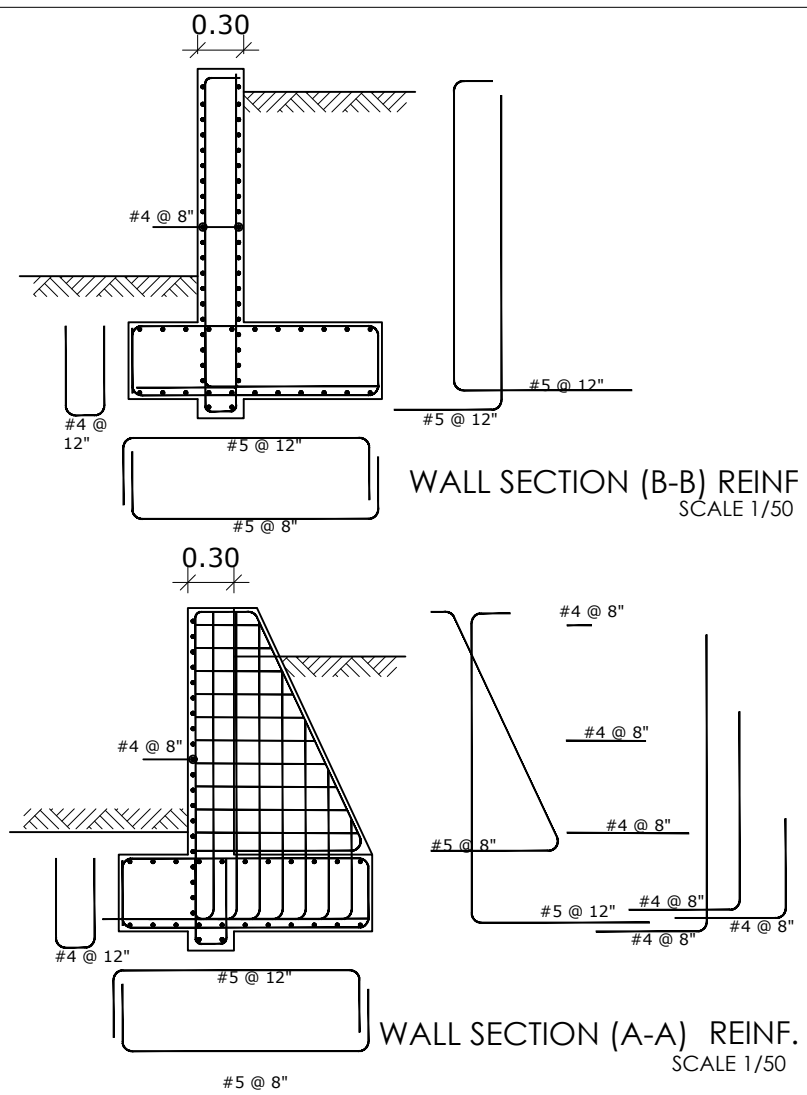
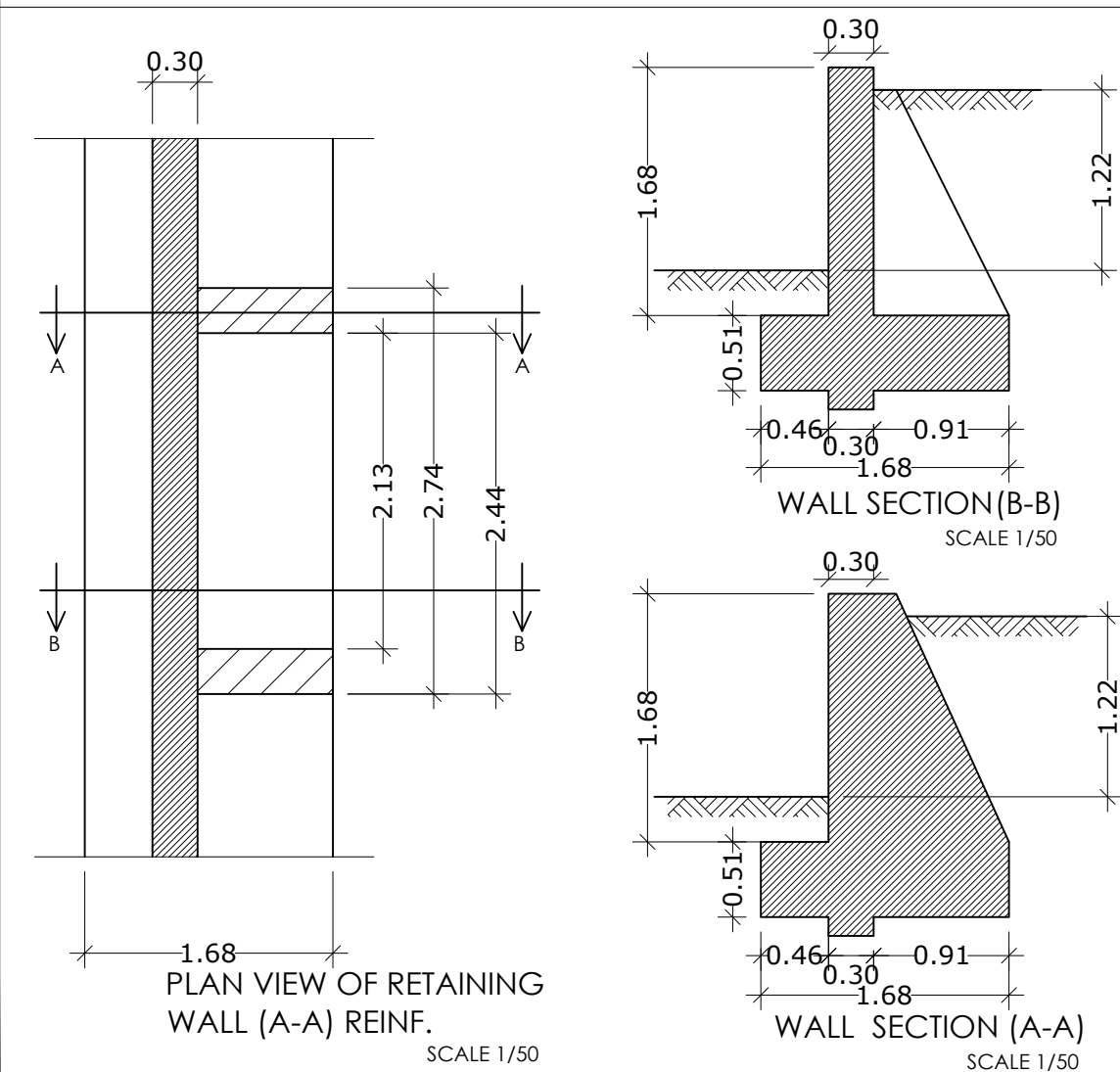
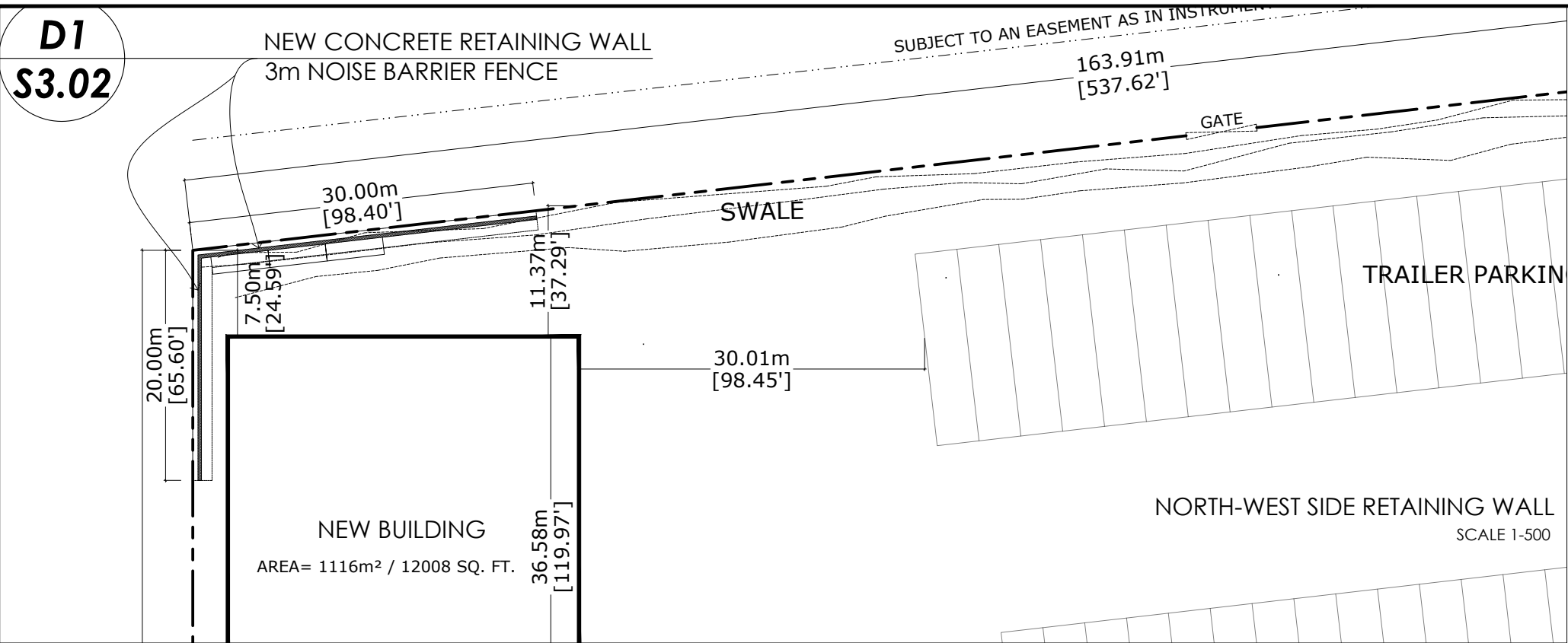
SHEET TITLE:

**EXISTING BUILDING  
DEMO PLANS**

SCALE:	1-200	JOB No.	#
DATE:	June 21	PRINTED:	#
DRAWN BY:	M. CARVALLO	SHEET No.	
CHECKED BY:	R. BARCLAY		<b>A3.01</b>



**D1**  
**S3.02**

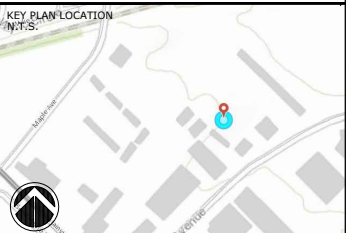


REVISIONS		
1	13-MAY-21.	ISSUED FOR DEMO PERMIT
2	17-MAY-21	ISSUED FOR REVIEW
3	21-MAY-21	ISSUED FOR REVIEW
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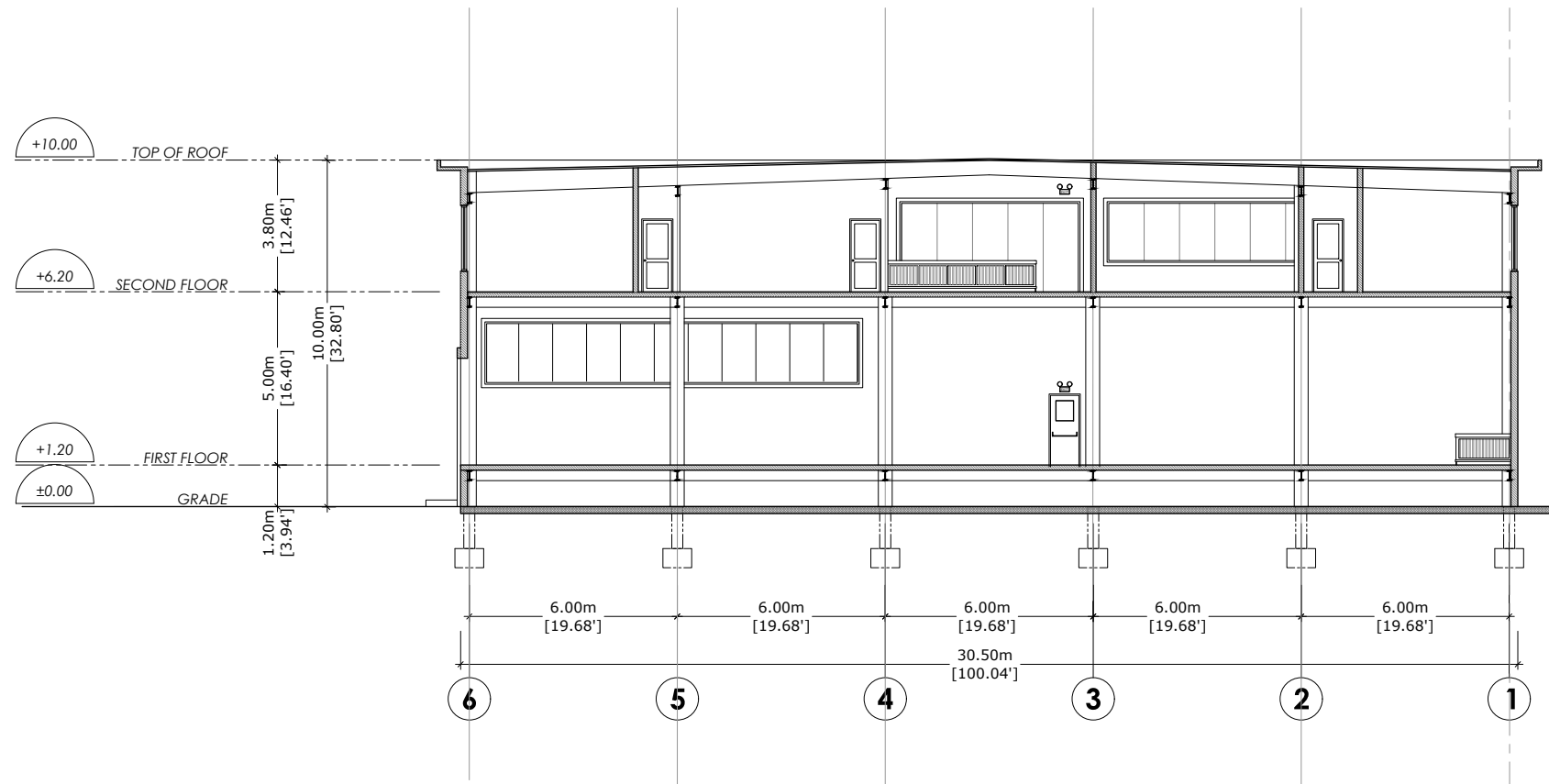
1100 BURLOAK DR., SUITE 300  
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ray@westportstructures.com

PROJECT: **HBC TRANSPORTATION INC**  
**29 ARMSTRONG AV.**  
**GEORGETOWN, ON.**

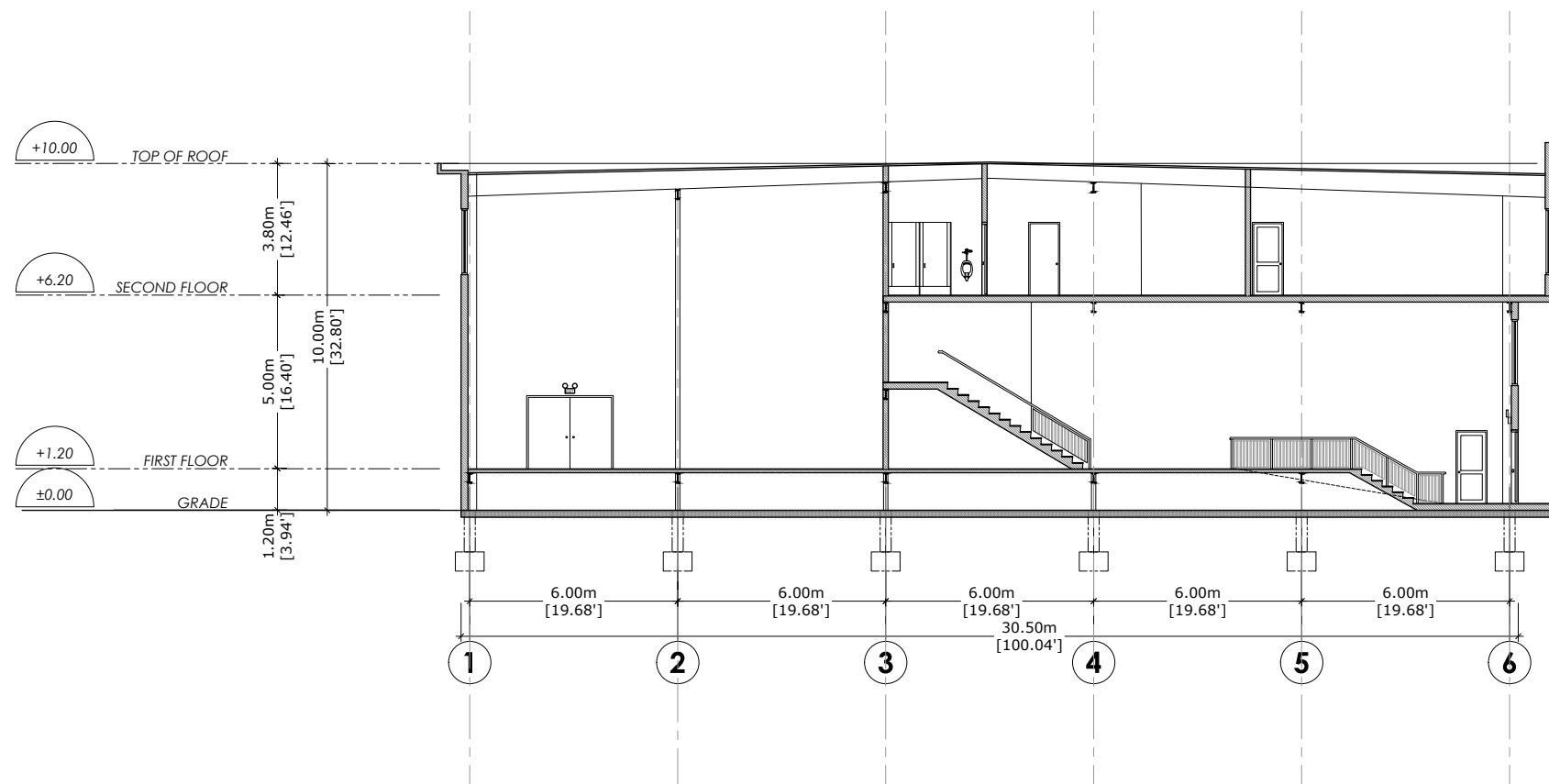
SHEET TITLE:

**CONCRETE RETAINING  
WALL DETAILS**

SCALE:	MG 1:50	JOB No.	#
DATE:	June 21	PRINTED:	#
DRAWN BY:	M CARVALLO	SHEET No.	<b>A3.02</b>
CHECKED BY:	R. BARCLAY		



SECTION A



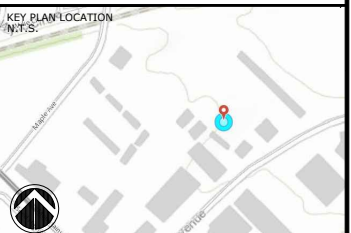
SECTION B

REVISIONS		
1	13-MAY-21	ISSUED FOR DEMO PERMIT
2	17-MAY-21	ISSUED FOR REVIEW
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PROJECT:

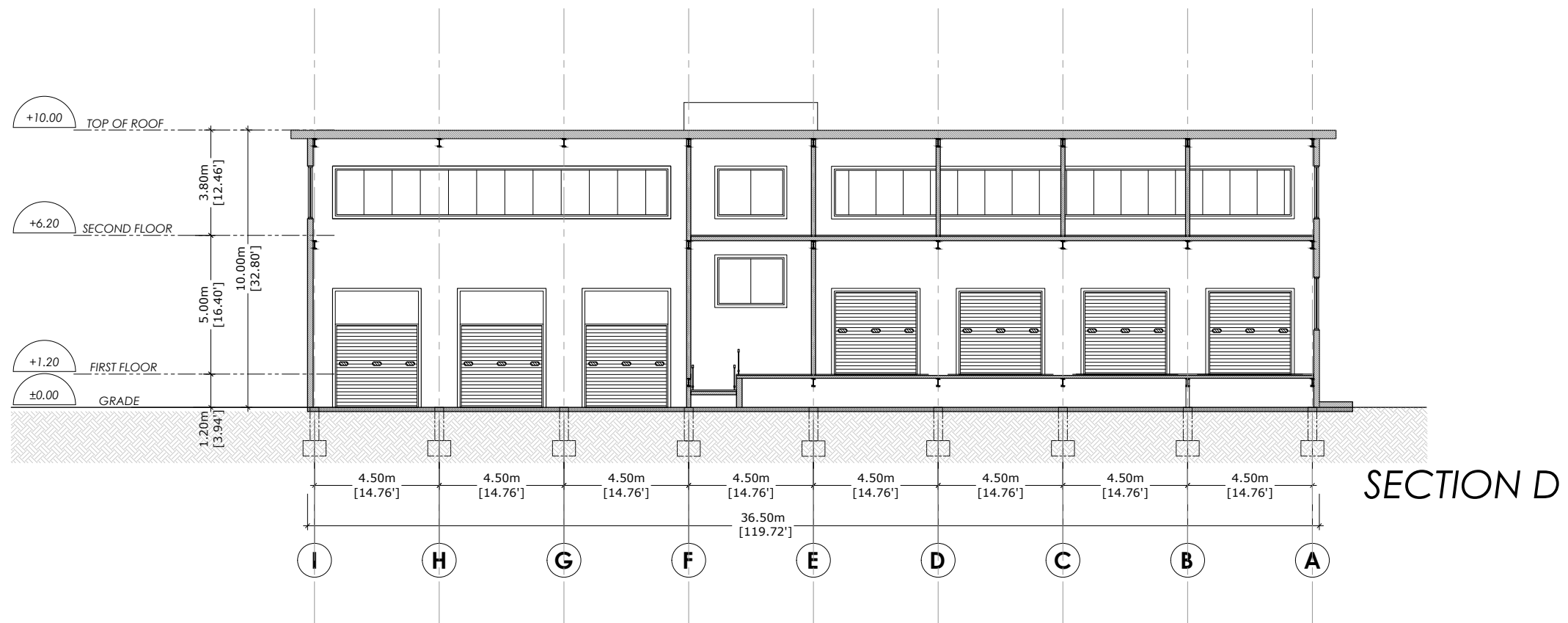
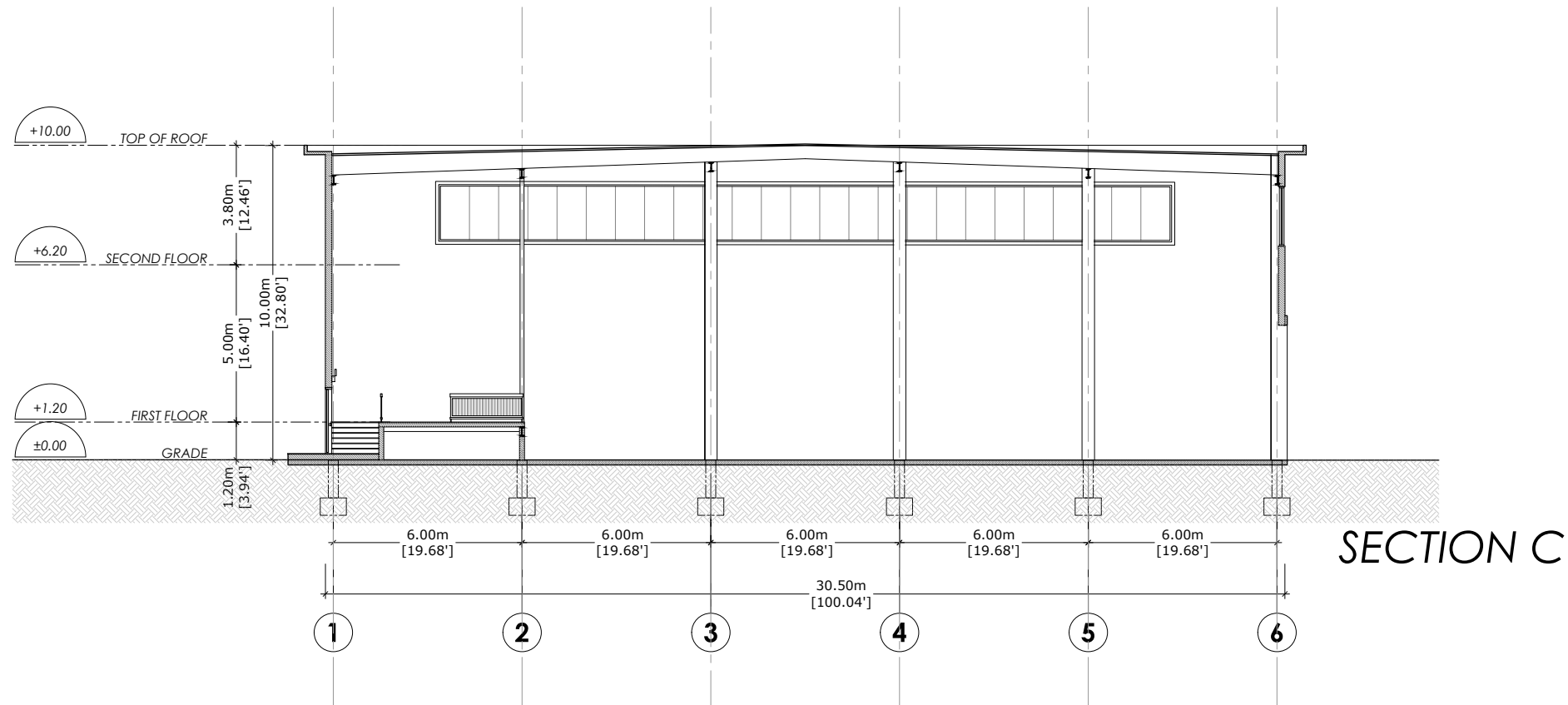
**HBC TRANSPORTATION INC**

**29 ARMSTRONG AV.**  
**GEORGETOWN, ON.**

SHEET TITLE:

**SECTIONS**

SCALE:	1-200	JOB No.	#
DATE:	June 21	PRINTED:	#
DRAWN BY:	M. CARVALLO	SHEET No.	
CHECKED BY:	R. BARCLAY		<b>A4.01</b>

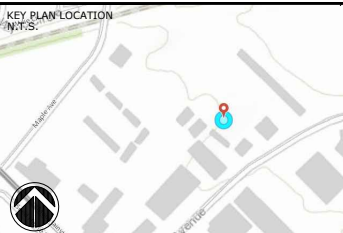


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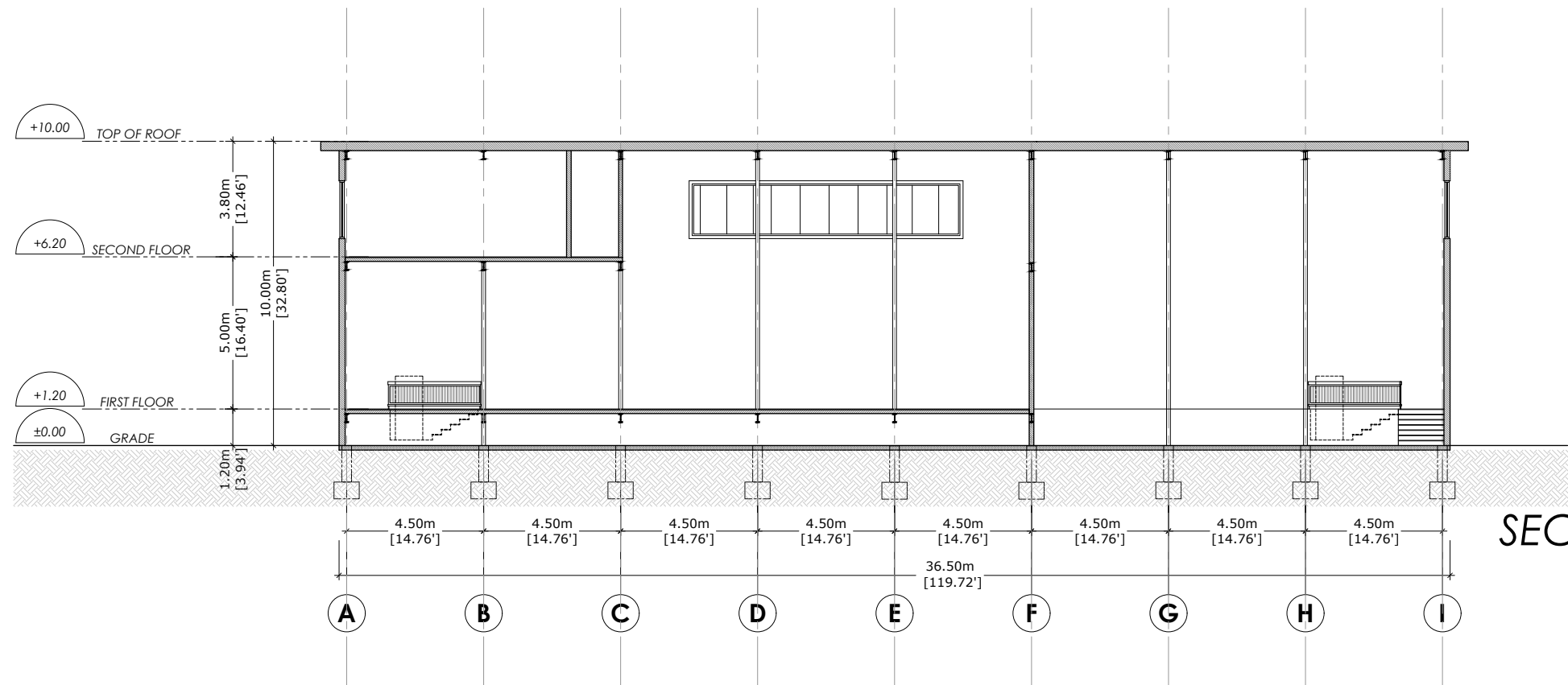
**29 ARMSTRONG AV.**  
**GEORGETOWN, ON.**

**SHEET TITLE:**

**SECTIONS**

SCALE:	1-200	JOB No.	#
DATE:	June 21	PRINTED:	#
DRAWN BY:	M. CARVALLO	SHEET No.	
CHECKED BY:	R. BARCLAY		<b>A4.02</b>

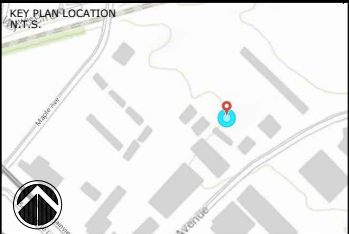




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DESIGN:

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STRUCTURES INC.

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BURLINGTON, ON, L7L 6B2  
416-888-5299  
ray@westportstructures.com

PROJECT:

**HBC TRANSPORTATION INC**

**29 ARMSTRONG AV.**  
**GEORGETOWN, ON.**

SHEET TITLE:

**SECTIONS**

SCALE:	1-200	JOB No.	#
DATE:	June 21	PRINTED:	#
DRAWN BY:	M. CARVALLO	SHEET No.	
CHECKED BY:	R. BARCLAY		

**A4.03**

STRUCTURAL NOTES

LOADING SUMMARY

DESIGN STANDARDS

- ONTARIO BUILDING CODE, 2012, PART 4: STRUCTURAL DESIGN
- CAN/CSA-A23.3-04, DESIGN OF CONCRETE STRUCTURES
- CAN/CSA-A23.4-09, DESIGN OF PRECAST CONCRETE STRUCTURES
- CAN/CSA-S304.1-04, MASONRY DESIGN FOR BUILDINGS
- CAN/CSA-S16-09, LIMIT STATES DESIGN OF STEEL STRUCTURES
- CAN/CSA-S136-12, DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBER
- CAN/CSA-086-09, ENGINEERING DESIGN IN WOOD

SNOW, ICE AND RAIN LOADS

APPLIED PER OBC, PART 4, SECTION 4.1.6

- IMPORTANCE FACTOR, IS 1.0 (SLS) 1.0 (ULS)
- GROUND SNOW LOAD, SS 0.9 KPA (18.8 PSF)
- ASSOCIATED RAIN LOAD, SR,0.4 KPA (8.35 PSF)
- WIND EXPOSURE FACTOR, CW 1.0
- ROOF SNOW LOAD, S1.4 KPA (29.24 PSF)
- DRIFT LOADS PER CLAUSE 4.1.6.2.8
- SLOPE FACTORS PER CLAUSE 4.1.6.2.(5) TO (7) RS

WIND LOADS

APPLIED PER OBC, PART 4, SECTION 4.1.7

- IMPORTANCE FACTOR, LW 1.0 (SLS) 1.0 (ULS)
- REFERENCE VELOCITY PRESSURE FOR STRUCTURAL MEMBERS  
O 0.46 KPA 1/50 YEAR PROBABILITY (9.6 PSF)
- REFERENCE VELOCITY PRESSURE FOR CLADDING & NON-STRUCTURAL MEMBER  
O 0.36 KPA 1/10 YEAR PROBABILITY (7.5 PSF)
- GUST FACTORS CG:  
O 2.0 FOR WHOLE & MAIN STRUCTURAL MEMBERS  
O 2.5 FOR SMALL ELEMENTS INCLUDING CLADDING  
O 2.0 FOR INTERNAL PRESSURES
- BUILDING INTERNAL PRESSURE CATEGORY 2 PER NBC 2010  
STRUCTURAL COMMENTARY (PART B), COMMENTARY B. S

SEISMIC LOADS

APPLIED PER OBC, PART 4, SECTION 4.1.8

- IMPORTANCE FACTOR, LC 1.P (ULS)  
SA(0.2) 0.34  
SA(0.5) 0.18  
SA(1.0) 0.068  
SA(2.0) 0.022  
PGA 0.20 (CLASS C ASSUMED)  
SOIL CLASS C  
FA 1.00

FLOOR LOADS

APPLIED PER OBC, PART 4, TABLE 4.1.5.3

- GROUND FLOOR 4.8 KPA (100 PSF)

SEISMIC SWAY BRACING

ARTICLE 4.1.8.18(2) OF THE ONTARIO BUILDING CODE NOTES THAT IF THE PRODUCT OF LE \* FA \* SA(02) IS LESS THAN 0.35, THE REQUIREMENTS NOTED ABOVE NEED NOT APPLY. THESE VALUES ARE EXPLORED BELOW. THIS EXEMPTION IS NOT APPLICABLE TO POST-DISASTER BUILDINGS.

BASED ON THE ABOVE NOTES VALUES, THE PRODUCT OF LE \*FA \* SA(0.2) = 1.0 \* 1.0\* 0.34 = 0.34. GIVEN THIS IS LESS THAN THE THRESHOLD OF 0.35, THE APPLICATION OF THE LATERAL FORCE (VP) TO ALL ELEMENTS AND COMPONENTS AND SWAY BRACING IS NOT REQUIRED.

STRUCTURAL NOTES

1. ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2089 PSF (100KPA), WHICH IS TO BE CONFIRMED BY A CERTIFIED SOIL ENGINEER.
2. CONTRACTOR IS TO NOTIFY ENGINEER OF COMMENCEMENT OF CONSTRUCTION
3. CONTRACTOR IS TO NOTIFY ENGINEER 48 HOURS PRIOR TO FIRST FOUNDATION WALL POUR FOR REBAR INSPECTION.
4. CONTRACTOR IS TO CONTACT ENGINEER FOR FINAL FRAMING INSPECTION
5. ALL EXISTING FRAMING TO BE SITE VERIFIED AND SUITABILITY IS TO BE DETERMINED
6. CONTRACTOR IS TO PROVIDE ADEQUATE SHORING DURING CONSTRUCTION
7. ALL TIMBER MUST BE SPF #2 OR BETTER
8. ALL LSL LUMBER TO BE 1.7X10E6 PSI. IN PLACE OF LSL LUMBER PSL (2.0X10EG6 PSI) OR LVL (2.0X10E6) CAN BE USED (EXCEPT WHERE NOTED).
9. ALL STEEL TO BE 350W AND SHALL CONFORM TO CSA G40.21-92
10. ALL REINFORCING STEEL TO BE 400W AND SHALL CONFORM TO CSA-G30.18M92
11. CONCRETE: F'C = 25 MPA AT 28 DAYS, SLUMP 75MM (3"), AIR CONTENT IN CONCRETE EXPOSED TO WEATHER 3%-6%
12. ALL TIMBER EXPOSED TO THE EXTERIOR IS TO BE PRESSURE TREATED, INCLUDING STRUCTURAL TIMBER WITHIN EXTERIOR COLUMNS.
13. ALL STEEL EXPOSED TO THE EXTERIOR IS TO BE HOT DIPPED GALVANIZED.
14. ARCHITECT TO CONFIRM FLUSH AND DROPPED BEAMS (ALL BEAMS FLUSH UNLESS OTHERWISE NOTED). PROVIDE SADDLE FOR WOOD BEAMS WHICH BEAR ONTO OR INTO STEEL COLUMNS W/2-1/2" THROUGH.
15. CONNECT 2"x6" WOOD PLATE TO TOP OF ALL STEEL BEAMS WITH ½" THOROUGH BOLT @ 2'-0" O.C. STAGGERED ON EACH SIDE OF WEB. IF USING SIDE MOUNTED HANGERS, FILL WEB WITH 2"x MEMBERS TO CLEAR FLANGE USING ½" THROUGH BOLT @ 2'-0" O.C. STAGGERED TOP AND BOTTOM.
16. ENGINEERED JOIST AND BEAM SHOP DRAWINGS (STAMPED BY P.ENG.) WHICH INCLUDE SPECS FOR ALL REGISTERED JOIST AND BEAM HANGERS ARE TO BE PROVIDED TO ENGINEER FOR REVIEW.
17. ROOF TRUSS SHOP DRAWINGS (STAMPED BY P.ENG.) ARE TO BE PROVIDED TO ENGINEER FOR REVIEW.
18. TRUSS DESIGN TO BE IN ACCORDANCE WITH PART 4 OF THE OBC, LIMIT STATES DESIGN
19. PROVIDE HOLD DOWN CLIPS AT ALL TRUSSES. ROOF TRUSS ENGINEER TO DESIGN FOR UPLIFT CONNECTION OF TRUSSES TO TOP PLATE.
20. HORIZONTAL DEFLECTION OF SCISSORS TRUSSES IS TO BE LIMITED TO L/500 NOF HEIGHT OF SUPPORTING WALL.
21. CONNECT INTERIOR NON-LOAD BEARING WALLS TO TRUSSES USING A SLIDING CONNECTION
22. DESIGN LOADS:
  - GROUND AND SECOND FLOOR LIVE LOADS = 40 PSF
  - GROUND AND SECOND FLOOR DEAD LOADS = 20 PSF
  - ROOF SNOW LOAD = 22 PSF
  - ROOF DEAD LOAD = 17 PSF
  - TERRACE/BALCONY LIVE LOAD = 50 PSF
  - TERRACE/BALCONY DEAD LOAD = 20 PSF
  - CEILING LIVE LOAD = 10 PSF
  - CEILING DEAD LOAD = 10 PSF
23. ROOF SHEATHING TO BE ½" PLYWOOD MIN. W/H-CLIPS
24. FLOOR SHEATHING TO BE 3/4" PLYWOOD MIN. T&G, GLUED AND SCREWED.
25. PROVIDE DOUBLE JOISTS (D.J.) BELOW WALLS WHICH ARE NON BEARING AND PARALLEL TO SAID JOISTS
26. PROVIDE SOLID BLOCKING BETWEEN JOISTS BELOW ALL BEARING WALLS WHICH ARE PERPENDICULAR TO SAID JOISTS
27. PROVIDE APPROVED BLOCKING OR BRIDGING AT 7'-0" O.C. MAX. FOR FLOOR JOISTS
28. TYPICAL BEARING WALL IS 2"x6" @ O.C.

29. POST SCHEDULE:

- P2: 2-2"x6"
- P3: 3-2"x6"
- P4: 4-2"x6"
- P5: 5-2"x6"
- P6: 1-4"x4"
- P7: 1-6"x6"

30. COLUMN SCHEDULE:

- SC1: WF
- SC2: HSS 3-1/2" X 3-1/2" X 3/16"
- SC3: HSS 5" X 5" X 1/4"

31. BASEMENT WALL TO BE 10" (OR 12") POURED CONCRETE, 25 MPA AT 28 DAYS, WITH A MAXIMUM HEIGHT OF 10'-6" (3200MM), WITH THE FOLLOWING REINFORCING (DOWELS TO MATCH VERT.):

- 15M @ 16" O.C. V.I.F.
- 10M @ 16" O.C. H.I.F.
- 10M @ 16" O.C. V.O.F.
- 10M @ 16" O.C. H.O.F

32. WHERE BRICK LEDGE DROPS MORE THAN 24" FROM THE U/S OF FLOOR JOISTS, BASEMENT WALL TO BE 12" POURED CONCRETE (8" CONCRETE BACKUP), 25 MPA AT 28 DAYS, WITH A MAXIMUM HEIGHT OF 10'-6" (3200MM), WITH THE FOLLOWING REINFORCING (DOWELS TO MATCH VERT.):

- 15M @ 16" O.C. V.I.F.
- 10M @ 16" O.C. H.I.F.
- 10M @ 16" O.C. V.O.F.
- 10M @ 16" O.C. H.O.F

8" BACKUP TO HAVE REBAR IN BOTH FACES, INSIDE LAYER OF REBAR IS TO BE CONTINUOUS FROM FOOTING TO TOP OF WALL. OUTSIDE LAYERS OS REBAR TO OVERLAP A MINIMUM OF 2'-0" WITH REINFORCING FROM 12" WALL BELOW.

33. PROVIDE 2-15M VERT. FULL HEIGHT ON EITHER SIDE OF BASEMENT WINDOW 4'-0" IN WIDTH OR GREATER

34. TYPICAL EXTERIOR STRIP FOOTING TO BE 24"x8" DP.W/2-15M CONTINUOUS

35. TYPICAL INTERIOR STRIP FOOTING TO BE 14"x6" DP.W/2-15M CONTINUOUS

36. F2.5: 2'-6"x2'-6"x12" DP. W/ 3-15M B.E.W.

F3.0: 3'-0"x3'-0"x12" DP. W/ 4-15M B.E.W.

F3.1: 3'-0"x3'-0"x10" DP. W/ 4/15M B.E.W

+10" Ø SONATUBE W/ 6-15M VERT. 20M TIES @ 10" O.C.

F3.5: 3'-6"x3'-6"x12" DP. W/ 5-15M B.E.W.

F4.0: 4'-0"x4'-0"x14" DP. W/6-15M B.E.W.

37. TYP. FIREPLACE FOOTING: 12: DEEP WITH 12" PROJECTION AROUND BASE WITH 15M @ 12" O.C.T.&B.E.W.

38. PROVIDE 4'-0" MINIMUM FROST COVER FOR ALL EXTERIOR FOOTINGS.

39. W.PL.1: 6"x3/8"x8" PL. W/2-1/2" A.BOLTS (2-1/2" HILTI BOLTS INTO EXISTING) (ON MIN. TWO COURSES SOLID MASONRY) (ON 16" LONG X 8" WIDE X 8" DEEP CONCRETE BEARING PAD ON EXISTING DOUBLE BRICK WALL.

40. DECK D1: 38MMX0.76MM (1-1/2"x0.03") BNT STEEL DECK, 3 SPAN CONTINUOUS MIN. DECK D2: 64MM (2-1/2") 25 MPA CONCRETE (MIN) OVER 38MM X 0.76MM (1-1/2" X 0.03") BNT

STEEL DECK, 3 SPAN CONTINUOUS MIN. REINFORCED WITH 152X152 MW18.7XMW18.7 (6X6W2.9XW2.9) WELDED WIRE FABRIC. PROVIDE L102X102X6.4 (L4"x4"x1/2") CONTINUOUS ANGLE AT ALL EDGES.

41. LOOSE LINTELS:

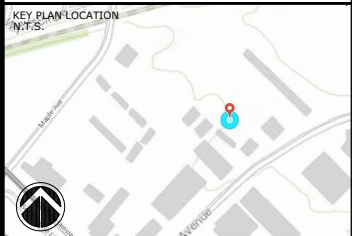
- L1: L3.5"x3.5"x1/4" UP TO 3'-11' (4" BEARING)
- L2: L4"x3.5"x5/16" UP TO 5'-11' (6" BEARING)
- L3: L5"x3.5"x5/16" UP TO 7'-10' (8" BEARING)
- L4: L6"x4"x3/8" UP TO 9'-11' (8" BEARING)

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PROJECT:

HBC TRANSPORTATION INC

29 ARMSTRONG AV.  
GEORGETOWN, ON.

SHEET TITLE:

STRUCTURAL NOTES

SCALE: #####	JOB No. #
DATE: June 21	PRINTED: #
DRAWN BY: M CARVALLO	SHEET No.
CHECKED BY: R. BARCLAY	S0.01

ABBREVIATION INDEX	0001
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0001

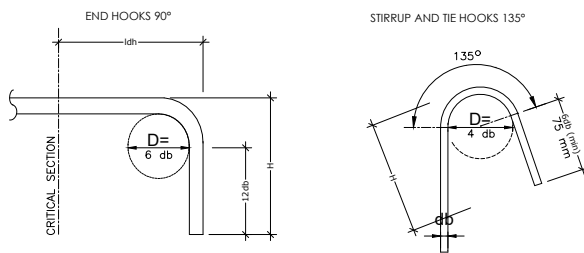
®	SPACING.	MIN.	MINIMUM
A.B.	ANCHOR BOLT	MISC.	MISCELLANEOUS
B.C.	BOLT CIRCLE	N.S.	NEAR SIDE
BM.	BEAM	NTD.	NOTED
BOT.	BOTTOM	N.T.S.	NOT TO SCALE
B.O.	BOTTOM OF	O.D.	OUTSIDE DIAMETER
B.O.S.	BOTTOM OF STEEL	OPNG.	OPENING
CANT.	CANTILEVER	OPP.	OPPOSITE
CHKD.	CHECKERED	PL.	PLATE
☉	CENTERLINE	P.	PROJECTION
CLR.	CLEAR OR CLEARANCE	RAD.	RADIUS
COL.	COLUMN	REF.	REFERENCE
CONC.	CONCRETE	REQD.	REQUIRED
CONN.	CONNECTION	R.	RISER
CONST.	CONSTRUCTION	SECT.	SECTION
CONT.	CONTINUOUS	SIM.	SIMILAR
CORR.	CORRUGATED	SPA.	SPACE(S) OR SPACING
CTRD.	CENTERED	SPCD.	SPACED
DET.	DETAIL	SPEC.	SPECIFICATION
DIA. OR ⌀	DIAMETER	STD.	STANDARD
DWG.	DRAWING	STIFF.	STIFFENER
EA.	EACH	STL.	STEEL
E.D.	REBARS DISTRIBUTED IN EACH DIRECTION	SYMM.	SYMMETRICAL
E.F.	REBARS UNIFORMLY DISTRIBUTED IN EACH FACE	THK.	THICK OR THICKNESS
EL.	ELEVATION (HEIGHT)	THD.	THREAD
ELEV.	ELEVATION (VIEW)	T.O.	TOP OF
EQ.	EQUAL OR EQUALLY	T.O.C.	TOP OF CONCRETE
EXIST.	EXISTING	T.O.G.	TOP OF GROUT
FAB.	FABRICATE	T.O.S.	TOP OF STEEL
FABR.	FABRICATOR	T.	TREAD
F.S.	FAR SIDE	TYP.	TYPICAL
FLG.	FLANGE	U.N.O.	UNLESS NOTED OTHERWISE
GALV.	GALVANIZED	VERT.	VERTICAL
GEN.	GENERAL	W/	WITH
GRTG.	GRATING	W/O	WITHOUT
HORIZ.	HORIZONTAL	W.P.	WORK POINT
H.R.	HANDRAIL		
I.D.	INSIDE DIAMETER		
INCL.	INCLUDING		
LOC.	LOCATION		
MAX.	MAXIMUM		
HPFS	HIGH POINT FINISHED SURFACE		
LPFS	LOW POINT FINISHED SURFACE		

## REINFORCEMENT DEVELOPMENT LENGTHS | 0301

0301

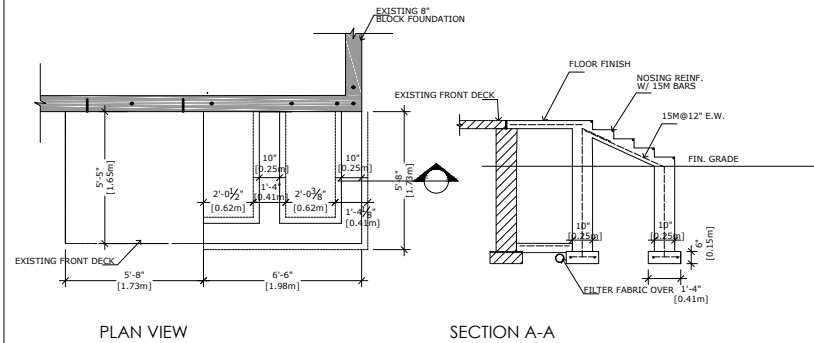
				END HOOKS (90°) ALL GRADES					STANDARD HOOK (135°) FOR STIRRUPS AND TIE HOOKS, GRADES	
BAR SIZE	DIAMETER		AREA (cm <sup>2</sup> )	MINIMUM BEND DIAM. "D" (mm)	STANDARD HOOK "H" (mm)	ldh (mm)	ldh (mm)	ldh (mm)	MINIMUM BEND DIAM. "D" (mm)	STANDARD HOOK "H" (mm)
	db									
#	INCHES	mm								
3	3/8"	9.53	0.71	57	152	127	150	179	38	100
4	1/2"	12.70	1.27	76	203	169	200	239	51	114
5	5/8"	15.88	1.98	95	254	211	250	299	64	143
6	3/4"	19.05	2.85	114	305	254	300	359	-	-
7	7/8"	22.23	3.88	133	356	296	350	418	-	-
8	1"	25.40	5.07	152	406	338	400	478	-	-
11	1 3/8"	34.93	9.58	210	559	-	-	-	-	-

TABULATED  $l_{dh}$  INCLUDE 0.7 REDUCTION FACTOR FOR BAR SIDE COVER OF AT LEAST 635 mm



ENTRANCE STAIR	0302
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0302

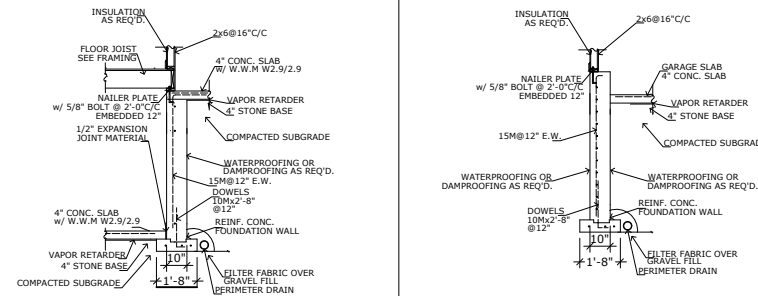


FOOTING DETAILS	0303
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0303

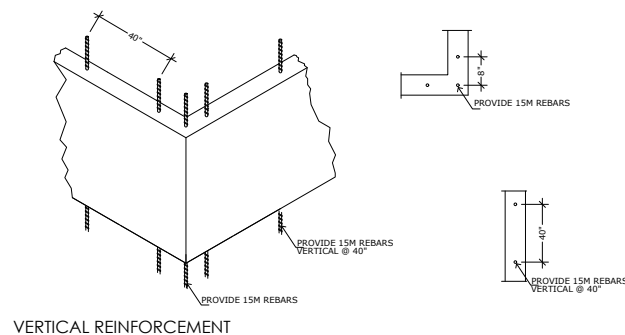
FOOTING DETAILS	0304
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0304

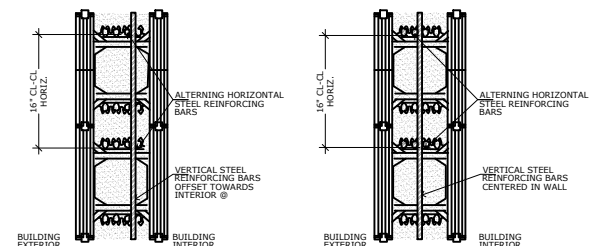


REINFORCING WALL DETAILS	0305
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0305

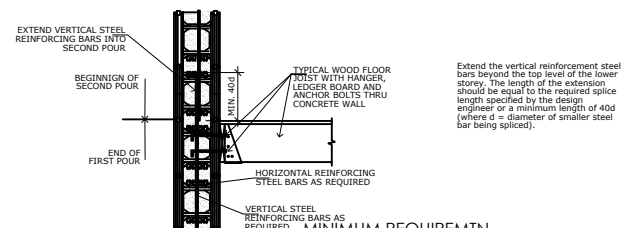


## VERTICAL REINFORCEMENT



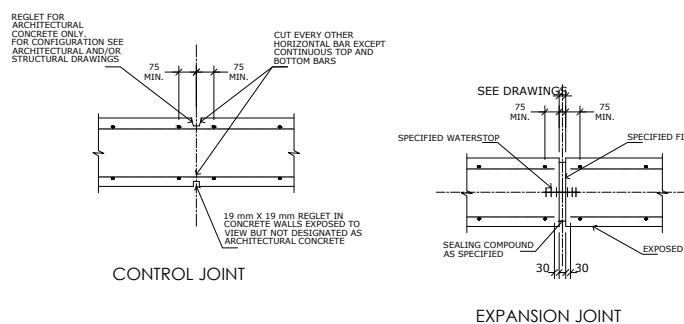
### TYPICAL BELOW GRADE REINFORCING STEEL PLACEMENT

TYPICAL ABOVE GRADE  
REINFORCING STEEL PLACEMENT

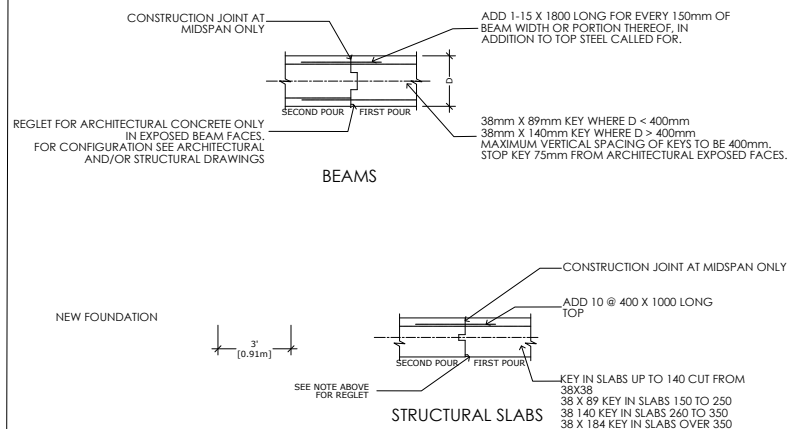


MINIMUM REQUIREMENT  
FOR LAP SPICE LENGTH

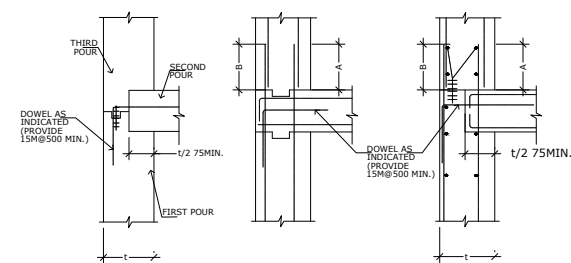
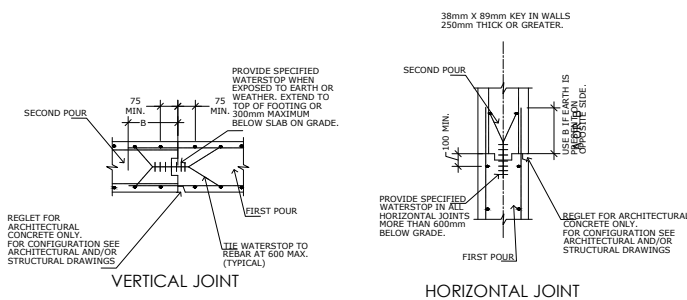
## CONTROL AND EXPASION JOINTS



## CONSTRUCTION JOINTS IN BEAMS AND SLAB



CONSTRUCTION JOINTS IN WALLS	
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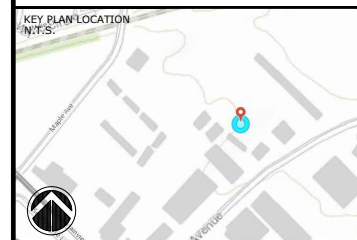
## HORIZONTAL JOINTS AT SLAB

REVISIONS		
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## STRUCTURAL DETAILS

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DRAWN BY: M CARVALLO	SHEET No.
CHECKED BY: R. BARCLAY	<b>\$3.01</b>



BASE PLATE3100BEAM / BEAM CONNECTION3101COLUMN / BEAM CONNECTION3102

Diagram of a 4-bolt base plate detail. It shows a cross-section of a steel beam with four bolts arranged in two rows. Dimensions A and B are indicated for the bolt spacing. Weld 'W' is shown at the edges of the base plate. Notes specify that the web thickness is 3/8" max and that the plate thickness and weld size should be as shown unless otherwise noted.

COLUMN SIZE	A	B	BASE PLATE THICK.	HOLE DIA.	BOLT DIA.	WELD "W"
W6	1'-0"	0'-9"	3/4"	1-3/16"	1"	5/16"
W8	1'-3"	0'-11"	3/4"	1-3/16"	1"	3/8"
W10	1'-5"	1'-1"	7/8"	1-9/16"	1-1/4"	3/8"
W12	1'-7"	1'-3"	1"	1-13/16"	1-1/2"	3/8"
W14	1'-9"	1'-5"	1-1/4"	1-13/16"	1-1/2"	3/8"

NOTES:

- USE HOLE/BOLT DIAMETER, PLATE THICKNESS AND WELD "W" SHOWN UNLESS OTHERWISE NOTED ON DRAWINGS.
- EDGES OF BASE PLATE

4-BOLT BASE PLATE DETAIL

Diagram of a beam-to-beam connection. It shows two I-beams connected by a gusset plate. The connection is labeled as SINGLE & DOUBLE SHEAR (SS&DS). Dimensions for bolt spacing and edge distances are provided.

S1 (SS&DS)						S4 (SS&DS)			
	6	8	10	13	16 & UP		6	8	10 & UP
3/4"	40					3/4"	60		
7/8"	50	45				7/8"	70		
1"	70	50	50			1"	80		

MINIMUM DISTANCES TO EDGE AND BETWEEN BOLTS

NOTE: THIS DISTANCES ARE BASED ON ALL ALLOWABLE SHEAR STRESS OF 150 Mpa (150KG/CM<sup>2</sup>)

MINIMUM OF 2 BOLTS 3/4" IS REQUIRED AT ALL CONNECTIONS UNLESS OTHERWISE NOTED IN DRAWINGS.

FOR BEAM WEB CONNECTIONS USE THE MAXIMUM NUMBER OF ROWS OF BOLT FOR EACH BEAM.

DEPTH AND MINIMUM DISTANCES BETWEEN BOLTS AND FROM EDGES IN ACCORDANCE TO DRAWINGS

BEAM / BEAM CONNECTION

Diagram of a column-to-beam connection. It shows a plan view of a column with a beam attached. Dimensions for bolt spacing and edge distances are provided. A note indicates that the plate thickness and weld size should be as shown unless otherwise noted.

NOTE:

T = 3/8" MIN, W1 = 3/4", W2 = 1/4" AND W3 = 1/4" UNO ON DESIGN DRAWING

COLUMN / BEAM CONNECTION

TYPICAL BEAM CONNECTIONS DETAILS3103JOIST DETAIL3104EXISTING & NEW STRUCTURES3105

Diagram of a typical beam connection detail. It shows a cross-section of a steel beam with a splice. Dimensions for splice plate thickness and flange width are provided. Notes specify that the splice plate thickness shall be equal to 1/2" web thickness with 6 minimum.

TYPICAL BEAM CONNECTION DETAIL

Diagram of a moment connection preparation detail. It shows a cross-section of a steel beam with a backing bar. Dimensions for backing bar thickness and weld size are provided. Notes specify that the backing bar shall be tack welded to the flange.

MOMENT CONNECTION PREPARATION DETAIL

Diagram of a typical stiffener plate detail. It shows a cross-section of a steel beam with a stiffener plate. Dimensions for clip corners and weld size are provided. Notes specify that the weld sizes greater than 5mm will be indicated on design drawings.

TYPICAL STIFFENER PLATE DETAIL

Diagram of a joist detail. It shows a cross-section of a W-beam with a joist attached. Dimensions for joist thickness and W-beam flange are provided. Notes specify that the flanges of I-joists should not be notched.

JOIST DETAIL

Diagram of existing and new structures. It shows a cross-section of a foundation and footing. Dimensions for foundation width, footing depth, and reinforcement are provided. Notes specify that the foundation shall be prepared in accordance with the design drawings.

EXISTING & NEW STRUCTURES

REVISIONS

1	13-MAY-21	ISSUED FOR DEMO PERMIT
2	17-MAY-21	ISSUED FOR REVIEW
3	21-MAY-21	ISSUED FOR REVIEW
4	31-MAY-21	ISSUED FOR STRUCTURAL REVIEW
5	2-JUN-21	ISSUED FOR CLIENT REVIEW
6	----	----
7	----	----
8	----	----
9	----	----
10	----	----

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KEY PLAN LOCATION (N.T.S.)

DESIGN:

WESTPORT

STRUCTURES INC.

WESTPORT STRUCTURES INC.

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PROJECT:

HBC TRANSPORTATION INC

29 ARMSTRONG AV.  
GEORGETOWN, ON.

SHEET TITLE:

STRUCTURAL  
DETAILS

SCALE: #####

JOB No. #

DATE: June 21

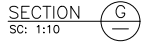
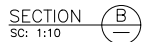
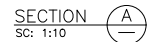
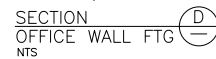
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S3.02



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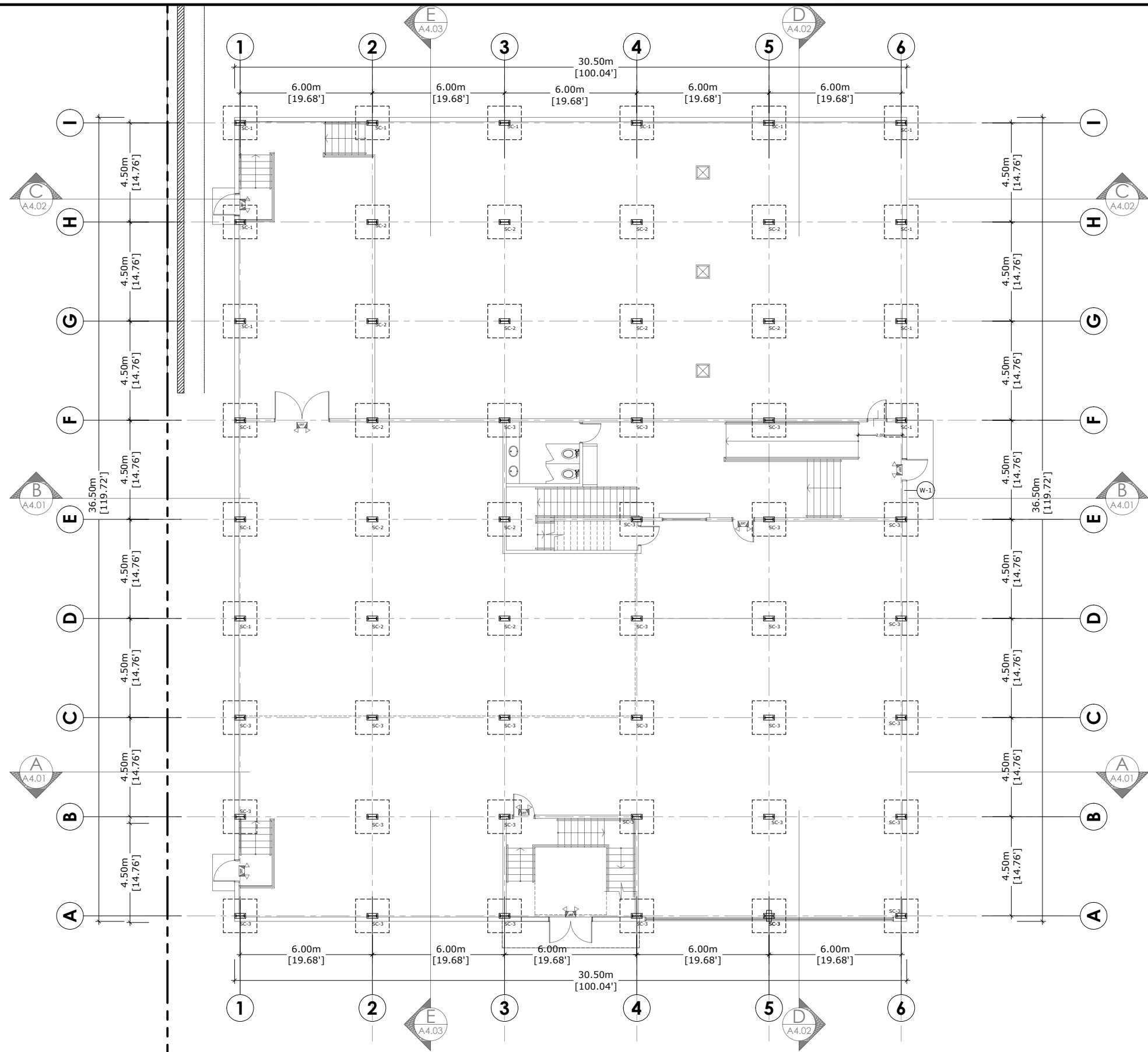
**HBC TRANSPORTATION INC**

**29 ARMSTRONG AV.  
GEORGETOWN, ON.**

SHEET TITLE:

## STRUCTURAL DETAILS

SCALE:	NTS	JOB No.	#
DATE:	June 21	PRINTED:	#
DRAWN BY:	M CARVALLO	SHEET No.	<b>S3.03</b>
CHECKED BY:	R. BARCLAY		

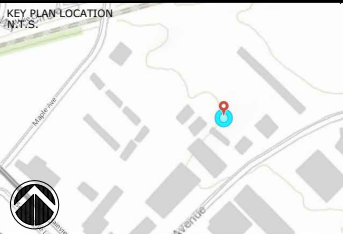


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DESIGN:



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PROJECT:

**HBC TRANSPORTATION INC**

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SHEET TITLE:

**FOOTINGS  
LAYOUT**

SCALE:	1-200	JOB No.	#
DATE:	June 21	PRINTED:	#
DRAWN BY:	M CARVALLO	SHEET No.	
CHECKED BY:	R. BARCLAY		<b>F1.01</b>